Walmart

REMODELED SQ FT:	186,902
EXISTING SQ FT:	186,902
ADDITIONAL SQ FT :	4,472
TOTAL SQ FT:	191,374

CAMERON, NC
STORE NO.: 06958.1000

PROTO CYCLE:	07/26/24
DATE:	01/08/25
PROTO:	182

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BUILDING CODE SUMMARY

	NAME OF PROJECT	CAMERON, NC
	ADDRESS	2800 NC HWY 24-87
	PROPOSED USE	RETAIL
CODES	BUILDING CODE	2018 NORTH CAROLINA STATE BUILDING CODE
	EXISTING BUILDING CODE	2018 NORTH CAROLINA STATE EXISTING BUILDING CODE
	ELECTRICAL CODE	2017 NATIONAL ELECTRICAL CODE (NFPA 70); SUPPLEMENTED BY NORTH CAROLINA AMENDMENTS
	PLUMBING CODE	2018 NORTH CAROLINA STATE PLUMBING CODE
	MECHANICAL CODE	2018 NORTH CAROLINA STATE MECHANICAL CODE
	FIRE CODE	2018 NORTH CAROLINA STATE FIRE PREVENTION CODE
	ENERGY CONSERVATION CODE	2018 NORTH CAROLINA STATE ENERGY CONSERVATION CODE
	ACCESSIBILITY CODE	2009 ICC/ANSI 117.1 STANDARD ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES
OCCUPANCY		M - MERCANTILE; WHOLESALE OR RETAIL STORE (MAIN OCCUPANCY) S1 - STORAGE AREA; MOTOR VEHICLE STATION AND RECEIVING AND STOCKROOMS (MIXED OCCUPANCY) A2 - ASSEMBLY USE; BREAKROOM AND FOOD TENANT (ACCESSORY TO MAIN OCCUPANCY) B - BUSINESS; NON FOOD TENANT (ACCESSORY TO MAIN OCCUPANCY)
TYPE OF CONSTRUCTION		V-B UNPROTECTED (SPRINKLERED)
ALLOWABLE AREA		UNLIMITED
FIRE PROTECTION		BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM AND IS SURROUNDED ON MOJORITY OF SIDES BY 60 FEET MINIMUM OF PERMANENT OPEN SPACE, THE REDUCED WIDTH OPEN SPACE IS 54' WIDTH AND IS LESS THAN 75 PERCENT OF PERIMETER AND THE EXTERIOR WALLS FACING THE REDUCED WIDTH HAVE A FIRE RESISTANCE RATING OF 3 HOURS. UNLIMITED AREA CRITERIA IS APPLICABLE.

VICINITY MAP



GENERAL SCOPE OF WORK

- SALES FLOOR: MOVE LOCATION OF DRESSING ROOMS
- SALES FLOOR: MOVE LOCATION OF ELECTRONICS DESK AND ADD DIGITAL DISPLAY BOARDS
- SALES FLOOR: CLEAN, PREPARE AND PAINT WALLS.
- REMOVE TILES AND PVC FLOORING AS SHOWN IN DRAWINGS AND POLISH ICC
- INTERIOR WALLS: CLEAN, PREP AND PAINT
- EXTERIOR SURFACES: CLEAN, PREP AND PAINT
- BUILDING ADDITION ON NORTH SIDE
- REPLACE AND INSTALL EXTERIOR SIGNAGE
- ADD NEW ROOF TOP EQUIPMENT
- ADD MOTHER'S ROOM IN REAR OF STORE
- RESTROOMS, REPLACE SINKS AND ACCESSORIES
- CUSTOMER CHECK OUT AREA: REVISE LOCATION OF CASH REGISTERS AND OTHER EQUIPMENT.
- CUSTOMER CHECK OUT AREA: ADD SELF CONTAINED REFRIGERATED CASES
- CUSTOMER SERVICE: NEW FINISHES AND ADD DIGITAL DISPLAYS
- PHARMACY: REMODEL MODULAR. ADD HEALTH SERVICE ROOM. NEW FINISHES.
- PHOTO LAB: RELOCATE
- VISION CENTER: UPDATE TO VC 2.0, ADD NEW DISPLAY EQUIPMENT AND NEW FINISHES.
- WHITE BOXED EXISTING MONEY CENTER
- ENTRY VESTIBULE: NEW FLOORING, CLEAN AND PAINT
- AUTO CENTER: REVISE FINISHES AND ADD DIGITAL DISPLAYS AND ADD CUSTOMER OIL TANK.
- BREAKROOM: NEW FINISHES
- GROCERY: REMOVE REFRIGERATED CASES AND EQUIPMENT. ADD REFRIGERATED CASES, EQUIPMENT, DIGITAL DISPLAYS AND NEW FINISHES.
- ONLINE PICKUP: IMPLEMENT PICKUP 2.0 AND REMODEL EXISTING PICKUP AREA IF EXISTING.
- DEMO EXISTING DRIVE-THRU AND ADD NEW DRIVE-THRU WITH NEW CANOPY AND NEW EQUIPMENT.

GENERAL NOTES

1. BUILDING IS FULLY SPRINKLERED AS REQUIRED BY CONTRACT DOCUMENTS
   - SUBMIT FIRE SPRINKLER SYSTEM DRAWINGS AND CALCULATIONS TO AUTHORITIES HAVING JURISDICTION (FIRE DEPARTMENT AND FIRE MARSHAL)
   - OBTAIN ALL APPROVALS PRIOR TO FABRICATION OR INSTALLATION
2. OWNER WILL PROVIDE, OR HAS ALREADY PROVIDED, FIRE EXTINGUISHERS IN ACCORDANCE WITH NFPA 10
   - AUTHORITY HAVING JURISDICTION WILL APPROVE FINAL FIRE EXTINGUISHER LOCATIONS.
3. WALMART'S ALARM CENTRAL'S ENGINEERING TEAM HAS CONTACTED THE AUTHORITY HAVING JURISDICTION FOR PRE-PLAN DATA ABOUT STATE AND LOCAL REQUIREMENTS THAT DIFFER FROM THE NATIONALLY PUBLISHED CODES AND STANDARDS
   - A COMPLETE SITE SPECIFIC SUBMITTAL IS BEING MADE DIRECTLY TO THE AUTHORITY HAVING JURISDICTION
   - QUESTIONS SHALL BE DIRECTED TO 1-800-530-9924, OPTION 3
4. THE MAXIMUM STORAGE HEIGHT IS TWELVE FEET EXCEPT IN THE GENERAL MERCHANDISE RECEIVING AREA IMMEDIATELY ADJACENT TO THE DOCK DOORS
   - THE STOCKROOM WILL HAVE A STACKING HEIGHT OF 15 FEET OF CLASS I-IV COMMODITIES IN FIXED, SINGLE AND DOUBLE ROW RACKS
   - THE STACKING HEIGHT OF THE ROLLING RACK AREA WILL NOT EXCEED 12 FEET
5. REINSTALL ALL FIRE EXTINGUISHERS IMMEDIATELY FOLLOWING COMPLETION OF FINAL FINISH TO MOUNTING SURFACE
6. REFER TO GENERAL CONTRACTOR PERMIT, REGISTRATION, NOTIFICATION INSPECTION AND INSTALLER CERTIFICATION(GCPRN) REPORT LOCATED IN GC PERMIT INFORMATION FOLDER ON OWNER'S DOCUMENT DELIVERY WEBSITE

ARCHITECTURAL	CIVIL	STRUCTURAL	FIRE PROTECTION	MECHANICAL	ELECTRICAL	BUILDING OFFICIAL
MASSA MULTIMEDIA ARCHITECTURE ARCHITECT OF RECORD 3297 ROUTE 66 NEPTUNE, NEW JERSEY 07753	ATWELL, LLC CIVIL OF RECORD 1850 PARKWAY PLACE, SUITE 650 MARIETTA, GA 30067	JOHNSTON BURKHOLDER ASSOCIATES ENGINEER OF RECORD 930 CENTRAL KANSAS CITY, MISSOURI 64105	HENDERSON ENGINEERS, INC. ENGINEER OF RECORD 8345 LENEXA DRIVE, SUITE 300 LENEXA, KANSAS 66214	HENDERSON ENGINEERS, INC. ENGINEER OF RECORD 8345 LENEXA DRIVE, SUITE 300 LENEXA, KANSAS 66214	HENDERSON ENGINEERS, INC. ENGINEER OF RECORD 8345 LENEXA DRIVE, SUITE 300 LENEXA, KANSAS 66214	HARNETT COUNTY DEVELOPMENTAL SERVICES 420 MCKINNEY PARKWAY LILLINGTON, NC 27546

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STIPULATION FOR REUSE

THIS DRAWING WAS PREPARED FOR USE ON A SPECIFIC SITE AT CAMERON, NC. IT IS NOT SUITABLE FOR USE ON OTHER PROJECTS. ANY REUSE OF THIS DRAWING FOR ANOTHER PROJECT REQUIRES THE EXPRESS WRITTEN PERMISSION OF MMA. ANY REPRODUCTION OF THIS DRAWING FOR ANY REASON WITHOUT THE EXPRESS WRITTEN AUTHORIZED AND MAY BE CONTRARY TO THE LAW.

CONSULTANTS

Walmart

CAMERON, NC
2800 NC HWY 24-87
STORE NO.: 06958.1000

JOB NUMBER: 194-23-047 | PROTO: 182

ISSUE BLOCK

1	PR1	07/02/2025
5	CCD1	12/04/2025

CHECKED BY:	MMA
DRAWN BY:	WM
PROTO CYCLE:	07/26/24
DOCUMENT DATE:	01/08/25

GABRIEL JOHN MASSA — LICENSED ARCHITECT — C-3941 — NEPTUNE, NJ

12/04/2025

COVER SHEET

SHEET: C1

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RESPONSIBILITY MATRIX

THE PURPOSE OF THIS DOCUMENT IS TO PROVIDE EASY ACCESS TO SOME OF THE IMPORTANT INFORMATION NEEDED FOR THIS PROJECT. THIS MATRIX IS NOT AN INCLUSIVE SCOPE OF WORK AND DOES NOT REPLACE THE REQUIREMENTS IDENTIFIED IN THE REST OF THE CONTRACT DOCUMENTS.

ITEM DESCRIPTION	FURNISHED BY	INSTALLED BY	COORDINATION TASK	CONTACT	PHONE AND EMAIL	LOCATION IN DOCUMENTS
RESTROOM PARTITION FIELD VERIFICATION TEMPLATE - SUBMISSION TO THE PRE-SELECTED SUPPLIER	GC	GC	GC - COMPLETE THE TEMPLATE AND RETURN EARLY TO ENSURE ON-TIME DELIVERIES OF PARTITIONS.	HJC	800-459-7099 WWW.HJCINC.COM/TPDEMS.PDF	SPECIFICATION 10160
SCENT SYSTEM	OWNER	OWNER (THIRD PARTY VENDOR)	COORDINATE INSTALL WITH OWNER SUPPLIED VENDOR AFTER RESTROOM ELECTRICAL WORK IS COMPLETE PER SPEC	PROLITEC, INC	MELISSA MAKER CUSTOMER CARE-DISPATCHER, PROLITEC, INC. 414.615.4602	SPECIFICATIONS APPENDIX A
AUTO SLIDING DOOR PACKAGES, INCLUDING PICKUP OR EXPANSION DOORS.	OWNER	OWNER	GC TO CONFIRM DOOR MANUFACTURER'S ROUGH OPENING AND DRAWINGS DIMENSIONS BEFORE DOORS CAN BE BUILT AND SHIPPED. DOOR PRODUCTION DOES NOT BEGIN UNTIL ROUGH OPENINGS ARE CONFIRMED.	STANLEY ACCESS TECHNOLOGIES DORMA USA	STANLEY ACCESS TECHNOLOGIES, FARMINGTON, CT CONTACT: CARLA MESSINA, NATIONAL ACCOUNTS PROJECT MANAGER, (860) 801-0267 DORMA USA INDIANAPOLIS, IN CONTACT: LENA HALL, NATIONAL ACCOUNTS PROJECT MANAGER (800) 677-9848	REF SPECIFICATION 01600 FOR LONG LEAD TIMES
SALVAGE PICKUP REFRIGERATION EQUIPMENT	N/A	N/A	PROPAK: 1. GC TO REMOVE REFRIGERATED EQUIPMENT. PROPAK TO DECOMMISSION EQUIPMENT AND REMOVE REFRIGERANT. 2. GC TO PALLETIZE EQUIPMENT AND CONTACT PROPAK FOR REMOVAL. 3. GC TO LOAD PALLETIZED REFRIGERATED EQUIPMENT ON TRUCK FOR REMOVAL FROM SITE.	PROPAK	PROPAK CONTACT: DONALD PARTAIN - walmart@propak.com	SPEC SECT 02023
POWER FOR FUTURE SELF SERVICE PROPANE EXCHANGE	GC	GC	IF EXISTING 110V POWER IS NOT AVAILABLE ADD POWER AT EXISTING PROPANE STORAGE UNITS.	BLUE RHINO AMERIGAS	BLUE RHINO: DANNY THURMOND, (336) 608-1585, DTHURMOND@BLUERHINO.COM AMERIGAS: SAMANTHA BURCKHARD, (510) 589-4575, SAMANTHA.BURCKHARD@AMERIGAS.COM.	E2
REPAIR OF SOLID SURFACE COUNTERS IN VISION CENTER	OWNER	GC	GC TO CONTACT LOCAL QUARTZ COUNTER PROVIDER FOR REPAIR	AUTHORIZED REPAIR REPRESENTATIVE FOR VERONA MARBLE	VERONA MARBLE COMPANY: 214-435-8553	SPECIFICATION 06616
REPLACE SCREW ANCHORED 4" X 32" SS BOLLARDS AT ENTRY SLIDING DOORS BEING UPDATED WITH RUBBER FLOOR AND AT EAS PEDESTALS BEING REPLACED AT EOL.	OWNER	GC	BOLLARDS INDICATED ON THE DRAWINGS WILL BE SHIPPED TO THE STORE FOR GC INSTALL. GC TO VERIFY WITH STORE PLANNER IF EAS PEDESTALS ARE TO BE REPLACED. TYCO IS RESPONSIBLE FOR EAS PEDESTAL REPLACEMENT. GC TO COORDINATE THE FOLLOWING ITEMS WITH TYCO: - INSTALLATION SCHEDULE WHEN EAS PEDESTALS ARE INSTALLED AT LOCATIONS WITH RUBBER FLOORING - VERIFY IF EXISTING CONDUIT IS SUFFICIENT WHEN PEDESTALS ARE TO BE INSTALLED	MCCUE CORPORATION (BOLLARDS) TYCO (EAS PEDESTALS)	MCCUE CORPORATION: KAITLYN ROAF, (800) 800-8503, KROAF@MCCUE.COM TYCO: DAVE KATZ, (561) 212-8932, david.katz@jci.com MARTY MANWILLER, (479) 295-6173, martin.manwiller@jci.com	SA1, A1, A5, GC1, AND AC1
SPILL STATION ATTACHMENTS	GC	GC	GC TO COORDINATE WITH IN-STORE AP MANAGER ON LOCATION OF WHERE TO ATTACH CLEAN/SPILL STATIONS WITHIN THE STORE	N/A	N/A	SA1 BID ALLOWANCE SCHEDULE
PLUMBING LINE JETTING AND CAMERA SCOPING FOR RESTROOM REFRESH PROJECTS	GC	GC	GC TO JET PLUMBING LINES AND CAMERA SCOPE PLUMBING LINES AFTER WORK IN RESTROOM AREA IS COMPLETE. THE PRIMARY PURPOSE OF SCOPING IS TO ENSURE PLUMBING LINES ARE FREE OF CONSTRUCTION RELATED DEBRIS AND OBSTRUCTIONS. ANY STRUCTURAL ISSUES IDENTIFIED DURING SCOPING TO BE ADDRESSED WITH WM CONSTRUCTION MANAGER.	N/A	N/A	P1.1
DIAMOND PLATE IMPACT PROTECTION	OWNER	GC	GC TO STORE DIAMOND PLATE ON SITE. GC TO INSTALL DIAMOND PLATE RAIL AND REMOVE/DISPOSE OF ALL WASTE MATERIAL AFTER INSTALL.	CSF (MATERIAL) MCCUE CORPORATION (MATERIAL)	CONCEPT STORE FIXTURES: MIKE LYONS, (704) 340-8993, MLYONS@CONCEPTFIXTURES.COM MCCUE CORPORATION: KAITLYN ROAF, (800) 800-8503, KROAF@MCCUE.COM	SPECIFICATIONS: SPEC SECTION 10260, APPENDIX A (SECTIONS 05500 & 10260)
			REFRIGERATED CASE RAIL: - GC TO REMOVE EXISTING CASE PROTECTION RAIL AND CORNER GUARDS, FILL EXISTING ANCHOR HOLES AND INSTALL NEW DIAMOND PLATE RAIL PROTECTION SYSTEM			GA1, GA1.1, GA2 SPECIFICATIONS: APPENDIX A (SECT 10260)
			STEEL COLUMNS: - GC TO PAINT COLUMNS AS NOTED IN CONSTRUCTION DOCUMENTS - GC TO ADHERE DIAMOND PLATE WAINSCOT TO COLUMNS WITH ADHESIVE. USE H-SEAM TRIM AT SEAMS BETWEEN SHEETS. C CHANNEL TRIM AT TOP OF WAINSCOT, AND PROVIDE RIVETS FOR ADDED ATTACHMENT			A1 SPECIFICATIONS: APPENDIX A (SECT 05500) AND SPEC SECT 05500
PNEUMATIC TUBES	GC	THIRD PARTY (QTS OR COMCO)	GC COORDINATES AND PURCHASES FROM APPROVED VENDOR. APPROVED VENDOR INSTALLS PNEUMATIC TUBE SYSTEM.	COMCO SYSTEMS, INC QTS (FORMERLY QUICK TUBE SYSTEMS)	COMCO: CARYSSA HEATH, (800) 533-3794 X226 OR (940) 465-4007, CHEATH@COMCOSYSTEMS.COM. QTS: RAY EPPS (SALES), (832) 717-0549 X101, REPPS@QTSINC.COM	SP SHEETS AND PHARMACY SHEETS
CANOPIES	OWNER	GC	GC TO CONFIRM DELIVERY WINDOW W/VENDOR FOR CANOPY TO BE DELIVERED TO THE SITE 3 WEEKS PRIOR TO CONSTRUCTION START VENDOR RESPONSIBILITY: - SUPPLY CANOPY PER DRAWINGS PROVIDED BY AOR (NO SITE VERIFICATION NEEDED PRIOR TO PRODUCTION OF CANOPY) - DELIVER TO THE SITE GC RESPONSIBILITY - UNLOAD AND STORE CANOPY ON SITE - INSTALL FOOTINGS (WHERE APPLICABLE) - GRIND SPLIT FACE CMU SMOOTH AT LOCATION OF CANOPY (WHERE APPLICABLE) - FILL CMU CELLS WITH GROUT AT CANOPY ATTACHMENT POINTS (WHERE APPLICABLE) - INSTALL CANOPY PER MANUFACTURERS WRITTEN INSTRUCTIONS - INSTALL LIGHT FIXTURES SUPPLIED BY VENDORS WITH CANOPY PACKAGE (GC TO PROVIDE ELEC CONNECTIONS) - PROVIDE REGLET FLASHING - PAINT COLUMNS AND/OR DOWNSPOUTS (WHERE APPLICABLE)	ARNING HENDEE MCGEE	REFERENCE APPENDIX A SECTION 10736 METAL CANOPY	A2, A4, SPEC SECTION 10736 & APPENDIX A

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STIPULATION FOR REUSE

THE DRAWING WAS PREPARED FOR USE ON A SPECIFIC SITE AT CAMERON, NC.

CONTEMPORANEOUS TWITH ITS ISSUE DATE, THE DRAWING MAY NOT BE USED FOR A DIFFERENT PROJECT SITE OR ANOTHER PROJECT. RESUMES THE ARCHITECTS AND ENGINEERS' PROFESSIONAL JUDGMENT. ARCHITECTS AND ENGINEERS SHALL NOT BE RESPONSIBLE FOR REUSE ON ANOTHER PROJECT IS NOT INDICATED AND ALTERATIONS TO THE LAW.

CONSULTANTS

Walmart
CAMERON, NC
2800 NC HWY 24-87
STORE NO: 06958.1000
JOB NUMBER: 194-23-047 PROTO: 182

ISSUE BLOCK

CHECKED BY: MMA
DRAWN BY: WM
PROTO CYCLE: 07/26/24
DOCUMENT DATE: 01/08/25

GABRIEL JOHN MASSA
NEPTUNE, NJ
01/08/2025

RESPONSIBILITY MATRIX

SHEET: C2

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CASE INSTALLATION

NOTE

THIS DOCUMENT IS INTENDED TO DESCRIBE IMPORTANT ELEMENTS OF THIS PROJECT AND TO DEFINE THE RESPONSIBLE PARTIES FOR THIS WORK STREAM. IT IS NOT MEANT TO BE AN EXHAUSTIVE SOURCE OF INFORMATION OR A COMPLETE SCOPE OF WORK. IT SHALL BE READ AND USED IN CONJUNCTION WITH ADDITIONAL, DETAILED INFORMATION IN THE PROJECT DRAWINGS AND SPECIFICATIONS, AND IN PUBLICATIONS AVAILABLE FROM THE MANUFACTURER.

#	SCOPE OF WORK	RESPONSIBLE PARTY			
		REPLACEMENTS		NEW EQUIPMENT	
		REMODEL		REMODEL	
1	FURNISH THE CASES.	OEM/WMT		OEM/WMT	
2	FURNISH AND INSTALL ALL (REFRIGERANT AND DRAIN) PIPING.	RC		RC	
3	FURNISH ALL FIELD-INSTALLED REFRIGERATION VALVES.	OEM/WMT		OEM/WMT	
4	FURNISH AND INSTALL ALL ISOLATION BALL VALVES.	RC		RC	
5	INSTALL ALL FIELD INSTALLED REFRIGERATION VALVES.	RC		RC	
6	FURNISH AND INSTALL ALL FACTORY INSTALLED REFRIGERATION VALVES.	OEM/WMT		OEM/WMT	
7	FURNISH ALL CONTROLS CABLING AS NECESSARY TO COMPLETE THE WORK. (24 VOLTS OR LESS)	BAS		BAS	
8	PROVIDE AN UPDATED AND COMPLETE TYPEWRITTEN CIRCUIT IDENTIFICATION SCHEDULE FOR EVERY PANELBOARD AFFECTED BY THIS PROJECT.	GC		GC	
9	INSTALL AND TERMINATE FURNISHED CONTROLS WIRING (24 VOLTS OR LESS) AS DETAILED ON THE PRINTS.	RC		RC	
10	PROVIDE ELECTRICAL POWER CABLING FROM POWER SOURCE TO THE FIRST CASE IN THE CIRCUIT.	GC		GC	
11	PROVIDE ALL "SLAVE" WIRING FROM FIRST CASE TO REMAINING CASES ON THE CIRCUIT.	RC		RC	
12	PREFABRICATE AS MUCH OF THE PIPE WORK AND ELECTRICAL CONDUIT AS POSSIBLE AND MOUNT ANY DEVICES IN ORDER TO REDUCE THE AMOUNT OF "DOWN TIME" NEEDED TO COMPLETE THE INSTALLATION.	RC		RC	
13	COORDINATE THE INSTALLATION TIME WITH STORE MANAGEMENT.	GC		GC	
14	OBTAIN HOT WORK PERMITS AS REQUIRED.	GC		GC	
15	NOTIFY THE BAS VENDOR AT WMSE@NOVAR.COM OR WALMARTSUPPORT@COPELAND.COM 24 HOURS IN ADVANCE OF THE WORK. TELL THEM WHICH LOADS WILL BE IMPACTED BY THE WORK.	RC		RC	
16	SUBMIT SUPPRESSION EMAIL 24 HOURS PRIOR TO SHUTTING DOWN ANY REFRIGERATION SYSTEMS, HVAC SYSTEMS, OR BUILDING AUTOMATION CONTROL SYSTEMS, SEND E-MAIL TO THE DIGITAL OPERATIONS CENTER AT RMSUPPORT@WALMART.COM. THE E-MAIL SHALL STATE WHAT, WHY, AND WHEN IT IS BEING SHUT DOWN AND HOW LONG IT IS ANTICIPATED TO BE DOWN. SEND A FOLLOW UP E-MAIL TO RMSUPPORT@WALMART.COM AFTER THE WORK IS COMPLETE AND THE SYSTEM IS BACK UP AND RUNNING.	RC		N/A	
17	REMOVE ALL REFRIGERATED PRODUCTS FROM THE CASES THAT ARE BEING REPLACED.	WMT		N/A	
18	REMOVE ALL OF THE ASSET PROTECTION (BUMP GUARDS) FROM AROUND THE CASES.	GC		N/A	
19	SET THE CASES IN THE POSITION DICTATED BY THE CONSTRUCTION PRINTS. IF DISCREPENCIES ARE FOUND BETWEEN EXISTING CONDITIONS AND PRINTS, SUBMIT A RFI AND COORDINATE EXACT LOCATION OF CASES WITH WALMART CONSTRUCTION MANAGER PRIOR TO STARTING CONSTRUCTION.	GC/RC		GC/RC	
20	DRAIN VERIFICATION: RE-USE EXISTING CASE DRAIN IF NOT MORE THAN 1/2 OF DRAIN IS EXPOSED AND THE LOCATION COMPLIES WITH AHJ REQUIREMENTS. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF DRAINS ON WEEK 1 AND NOTIFY AOR/EOR IF DRAINS REQUIRE RELOCATION. SUBMIT CHANGE ORDER FOR ADDITIONAL SCOPE.	GC/RC		GC/RC	
21	REMOVE ALL FIXTURES AND SIGNAGE/HARDWARE AND TURN OVER TO STORE MANAGEMENT	GC/RC		GC/RC	
22	DECOMMISSION AND REMOVE THE OLD CASES. IN TEXAS, ALL DECOMMISSIONED CASES WILL BE REMOVED FROM THE STORE BY QUICK REFRIGERATION. COORDINATE REMOVAL AND DISPOSAL WITH WMT MECHANICAL CONSTRUCTION MANAGER. IMMEDIATE SALVAGE/LEGAL DISPOSAL OF ALL DECOMMISSIONED EQUIPMENT AND CONSTRUCTION DEBRIS SHALL BE RESPONSIBILITY OF CONTRACTOR. WHEN REPLACING PRODUCE CASES, REMOVE WATER SUPPLY FROM MISTING SYSTEM. WHEN REPLACING DELI SERVE OVER CASES, COORDINATE THE REMOVAL OF THE DATA CABLING FOR THE DELI SCALES.	RC		N/A	
23	PRIOR TO STARTING DEMOLITION WORK, PLUG ALL FLOOR DRAINS AND/OR FLOOR SINKS UNDER REFRIGERATED CASES TO BE REPLACED WITH EXPANDABLE MECHANICAL PLUG (SIMILAR TO CHERNE ECON-O-GRIP). AFTER WORK IN THE AREA IS COMPLETE, AND PRIOR TO SETTING NEW REFRIGERATED CASES, THOROUGHLY CLEAN ALL DEBRIS FROM FLOOR DRAIN AND/OR FLOOR SINK GRATES AND BODIES, REMOVE PLUG AND HYDRO-JET EACH FLOOR DRAIN AND/OR FLOOR SINK TO THE MAIN. CAMERA SCOPE MAIN LINE TO CONFIRM LINE IS CLEAR. IF MAIN LINE HAS ANY OBSTRUCTIONS, COORDINATE SOW WITH CM AS AN ADDITIONAL SERVICE.	RC		N/A	
24	CLEAN FLOOR PRIOR TO SETTING CASES	RC		RC	
25	WHEN REPLACING MULTI-DECK AND / OR GLASS DOOR CASES, AND REUSING EXISTING PIPEWORK, RE-INSULATE THE REFRIGERATION PIPING BEHIND THE CASES. THIS APPLIES TO ALL PIPING THAT IS ACCESSIBLE WITHOUT DISTURBING EXISTING CASES, INSIDE PITS / TUNNELS OR IN A CHASE THAT IS NOT BEING OTHERWISE DISTURBED.	RC		N/A	
26	ENSURE CASES ARE STRAIGHT, LEVEL, AND SHIMMED PER THE MANUFACTURER'S GUIDANCE. SEAL ALL CASES WITH BUTYL SEALANT PER SPECIFICATION. ALIGN GLASS DOORS PLUMB AND LEVEL TO PREVENT "SAW-TOOTHING" OF THE DOORS.	RC		RC	
27	CONNECT THE CASES (MECHANICAL, ELECTRICAL, PLUMBING AND CONTROLS) AS DETAILED ON THE PRINTS.	RC		RC	
28	EVACUATE AND PRESSURE TEST THE CASES AND ANY PIPING MODIFIED OR DISTURBED DURING THE WORK.	RC		RC	
29	SWITCH ON AND COMMISSION THE CASES, VALVES AND CONTROLS AS REQUIRED. CHECK AND ADJUST MECHANICAL TXV SUPERHEATS TO OEM RECOMMENDATIONS AND EPR SETTINGS PER LEGEND.	RC		RC	
30	INSTALL FURNISHED LIDS TO REFRIGERATED BUNKERS.	RC		RC	
31	FURNISH CONTROLS SUPPORT TO THE INSTALLING CONTRACTOR.	BAS		BAS	
32	WHEN REPLACING PRODUCE CASES, INSTALL MISTING SYSTEM TO CASES AND CONNECT TO DEDICATED WATER SUPPLY.	RC		RC	
33	WHEN REPLACING DELI SERVICE CASES, COORDINATE THE INSTALLATION OF THE DATA CABLING FOR THE DELI SCALES.	GC/WMT		GC/WMT	
34	CARRY OUT A THOROUGH LEAK TEST ON ALL WELDED AND MECHANICAL JOINTS INSTALLED OR DISTURBED DURING THE PROJECT.	RC		RC	
35	HANDOVER THE CASES TO THE STORE. (CASES MUST BE CLEAN, AT OPERATIONAL TEMPERATURE AND FULLY FUNCTIONAL WITH ALL PANS AND SHELVING IN PLACE.)	RC		RC	
36	COMPLETE ALL CONTRACTOR EQUIPMENT START-UP REPORTS, COORDINATE WITH OEMs TO COMPLETE COMMISSIONING, CERTIFIED TESTING LABS TO COMPLETE INSPECTIONS/TESTING, AND EOR TO COMPLETE SITE OBSERVATIONS AND FUNCTIONAL PERFORMANCE TESTING. CORRECT ANY DEFICIENCIES NOTED. UPLOAD ALL REQUIRED DOCUMENTATION TO THE APPROPRIATE FOLDER IN WRIKE.	GC		GC	
37	FILL THE CASE WITH PRODUCT.	WMT		WMT	
38	REPLACE MISSING OR DAMAGED FLOOR TILES OR REPAIR VISIBLE, DAMAGED CONCRETE FLOOR AROUND THE CASES. (AS NEEDED)	GC (OR WMT PREFERRED FLOORING INSTALLER)		N/A	
39	INSTALL CIRCUIT LABELS TO THE CASES AS REQUIRED.	RC		RC	
40	COMPLETE ASSET TAGGING PROCESS	GC		GC	
41	REPLACE THE SALES FLOOR CASE LAYOUT DRAWINGS AND INSTALL REPLACEMENT LEGENDS.	RC		RC	
42	REINSTALL ANY PREVIOUSLY REMOVED (UNDAMAGED) ASSET PROTECTION (BUMP GUARDS). INSTALL OWNER FURNISHED PROTECTION EQUIPMENT AS NEEDED.	RC		RC	
43	AFTER ALL CHANGES HAVE BEEN MADE TO A RACK, REMOVE ANY COMPRESSOR SUCTION FILTERS / SOCKS AND REPLACE THE RACK LIQUID LINE FILTERS. LEAVE THE OLD FILTERS / DRIERS IN THE RACK HOUSE TO BE INSPECTED BY THE MCM.	RC		RC	
44	SUBMIT REQUIRED REFRIGERANT TRACKING AND OTHER REGULATORY FORMS AS REQUIRED BY THE END OF COMMISSIONING WEEK. COMPLETED REFRIGERANT TRACKING FORMS ARE TO BE UPLOADED TO WRIKE AND EMAILED TO MCEQUIP@WALMART.COM.	GC		GC	
45	REMOVE ALL OF THE OLD CASES AND CLEAR SITE OF ALL TOOLS, UNUSED INSTALLATION MATERIALS AND TRASH.	RC		RC	

WALK-IN BOX PROJECTS

NOTE

THIS DOCUMENT IS INTENDED TO DESCRIBE IMPORTANT ELEMENTS OF THIS PROJECT AND TO DEFINE THE RESPONSIBLE PARTIES FOR THIS WORK STREAM. IT IS NOT MEANT TO BE AN EXHAUSTIVE SOURCE OF INFORMATION OR A COMPLETE SCOPE OF WORK. IT SHALL BE READ AND USED IN CONJUNCTION WITH ADDITIONAL, DETAILED INFORMATION IN THE WALMART PROJECT DRAWINGS AND SPECIFICATIONS, AND IN PUBLICATIONS AVAILABLE FROM THE MANUFACTURER.

#	SCOPE OF WORK	RESPONSIBLE PARTY					
		BATTEN AND SEAL		RELINE		REPLACE EVAPORATOR/BOX	
		REMODEL		REMODEL		REMODEL	
1	DEPENDING ON THE SCOPE OF WORK, FURNISH BATTEN AND SEAL, RELINE WALK-IN PANELS, OR REPLACE BOX.	PS/WMT		PS/WMT		PS/WMT	
2	DEPENDING ON THE SCOPE OF WORK, FURNISH EVAPORATORS AS REQUIRED.	OEM/WMT		OEM/WMT		OEM/WMT	
3	DEPENDING ON THE SCOPE OF WORK, FURNISH EVAPORATOR CONTROL PANELS	OEM/WMT		OEM/WMT		OEM/WMT	
4	FURNISH AND INSTALL ALL (REFRIGERANT AND DRAIN) PIPING.	RC		RC		RC	
5	FURNISH ALL FIELD-INSTALLED REFRIGERATION VALVES.	OEM/WMT		OEM/WMT		OEM/WMT	
6	FURNISH ALL ISOLATION VALVES.	RC		RC		RC	
7	FIELD-INSTALL ALL REFRIGERATION VALVES.	RC		RC		RC	
8	FURNISH ALL CONTROLS CABLING AS NECESSARY TO COMPLETE THE WORK. (24 VOLTS OR LESS)	BAS		BAS		BAS	
9	INSTALL AND TERMINATE CONTROLS WIRING (24 VOLTS OR LESS) AS DETAILED ON THE PRINTS.	RC		RC		RC	
10	FURNISH AND INSTALL ALL ELECTRICAL POWER CABLING FROM POWER SOURCE TO THE EVAPORATOR CONTROL PANEL IF NECESSARY.	GC		GC		GC	
11	TERMINATE POWER CABLES TO THE EVAPORATOR CONTROL PANEL	RC		RC		RC	
12	PREFABRICATE AS MUCH OF THE PIPE WORK AND ELECTRICAL CONDUIT AS POSSIBLE AND MOUNT ANY DEVICES IN ORDER TO REDUCE THE AMOUNT OF "DOWN TIME" NEEDED TO COMPLETE THE INSTALLATION.	RC		RC		RC	
13	COORDINATE THE INSTALLATION TIME WITH STORE MANAGEMENT.	GC		GC		GC	
14	OBTAIN HOT WORK PERMITS AS REQUIRED.	GC		GC		GC	
15	FURNISH TEMPORARY REFRIGERATED STORAGE AS NECESSARY.	WMT		WMT		WMT	
16	NOTIFY DIGITAL OPERATIONS CENTER AT RMSUPPORT@WALMART.COM MIN. 24 HRS. IN ADVANCE OF THE WORK, UTILIZING PROGRAM CHANGE REQUEST(PCR) - TELL THEM WHAT CASES/SYSTEMS ARE BEING INSTALLED/REMOVED.	RC		RC		RC	
17	SUBMIT SUPPRESSION EMAIL 24 HOURS PRIOR TO SHUTTING DOWN ANY REFRIGERATION SYSTEMS, HVAC SYSTEMS, OR BUILDING AUTOMATION CONTROL SYSTEMS, SEND E-MAIL TO RMSUPPORT@WALMART.COM. THE E-MAIL SHALL STATE WHAT, WHY, AND WHEN IT IS BEING SHUT DOWN AND HOW LONG IT IS ANTICIPATED TO BE DOWN. SEND A FOLLOW UP E-MAIL TO RMSUPPORT@WALMART.COM AFTER THE WORK IS COMPLETE AND THE SYSTEM IS BACK UP AND RUNNING.	RC		RC		RC	
18	REMOVE ALL REFRIGERATED PRODUCT FROM THE WALK-IN BOX THAT IS BEING IMPACTED.	WMT		WMT		WMT	
19	SHUT DOWN THE WALK-IN BOX THAT IS BEING IMPACTED. NOTE: ALLOW LOW TEMP ROOMS TO "DEFROST" FOR A PERIOD OF 72 HOURS TO ENSURE ALL ICE HAS MELTED FROM THE PANELS. ICE MELT NEEDS TO BE KEPT CLEARED THROUGHOUT THIS TIME TO ENSURE THAT WATER IS NOT REABSORBED BY THE PANELS.	RC		RC		RC	
20	REMOVE ALL OF THE RACKING FROM INSIDE THE WALK-IN BOX THAT IS BEING IMPACTED.	WMT		WMT		WMT	
21	REMOVE ANY PROTECTION DEVICES / STRUCTURES THAT WILL IMPEDE THE COMPLETION OF THE WORK.	GC		GC		GC	
22	REMOVE ALL UTILITIES (CONDENSATE PIPING, CONDUITS, J-BOX, LIGHTING, FIRE SUPPRESSION ETC.) IN ORDER TO ALLOW FOR THE WORK TO BE CARRIED OUT.	GC		GC		GC	
23	REMOVE THE APX REPEATER FROM THE WALK-IN BOX THAT IS BEING IMPACTED. STORE THE DEVICE FOR REUSE FOLLOWING COMPLETION OF THE WALK-IN WORK.	GC		GC		GC	
24	REMOVE THE REFRIGERATION EVAPORATOR(S) FROM THE AFFECTED WALK-IN BOX AS NEEDED.	RC		RC		RC	
25	FILL ANY GAPS IN THE PANEL JOINTS WITH SEALANT OR EXPANDABLE FOAM PRIOR TO TAPING THE JOINT.	PS		PS		PS	
26	CLEAN WALLS AND REPAIR ANY FAULTY PANELS IN PREPARATION FOR BATTEN / SEALING OF THE WALL JOINTS WITHIN THE BOX THAT IS BEING REPAIRED. CARRY OUT THE BATTEN AND SEAL PROCESS.	PS		N/A		N/A	
27	CLEAN WALLS AND REPAIR ANY FAULTY PANELS IN PREPARATION FOR RELINING THE BOX THAT IS BEING REPAIRED. RE-LINE THE WALK-IN BOX AND BATTEN / SEAL THE CEILING JOINTS WITHIN THE BOX AFFECTED.	N/A		PS		N/A	
28	DISCONNECT ANY EDGE INDICATION NETTING FROM THE TOP OF THE WALK-IN BOX, LEAVING IT ATTACHED TO THE ROOF MEMBERS. STOW IT OUT OF THE WAY FOR FUTURE RE-USE. DEMOLISH AND REMOVE THE EXISTING WALK-IN BOX AS NOTED ON THE PROJECT PRINTS.	N/A		N/A		PS	
29	PROVIDE SUPPORT FOR ANY ITEMS THAT MAY BE MOUNTED TO THE EXTERIOR OF THE WALK-IN BOX THAT WILL REMAIN IN SERVICE DURING THE BOX REPLACEMENT. (FOR EXAMPLE PANEL BOARDS, BAS BACKBOARDS ETC.)	N/A		N/A		RC	
30	REPLACE THE WOODEN THERMAL BREAKS AS NECESSARY.	N/A		N/A		GC	
31	INSTALL NEW WALK-IN BOX. HANG THE DOOR AND ENSURE THAT ALL HARDWARE FUNCTIONS CORRECTLY.	N/A		N/A		PS	
32	RETRIEVE ANY EDGE INDICATION NETTING FROM THE ROOF MEMBERS, AND REATTACH IT TO THE TOP OF THE WALK-IN BOX AS DESCRIBED ON THE PRINTS.	N/A		N/A		GC	
33	REATTACH ANY ITEMS PREVIOUSLY MOUNTED TO THE EXTERIOR OF THE WALK-IN BOX THAT WERE TEMPORARILY SUPPORTED DURING THE WALK-IN BOX REPLACEMENT. (FOR EXAMPLE PANEL BOARDS, BAS BACKBOARDS ETC.)	N/A		N/A		RC	
34	INSTALL PROTECTION DEVICES AS INDICATED ON THE PRINTS. REINSTALL ANY EXISTING PROTECTION DEVICES OR STRUCTURES AS REQUIRED. ENSURE THAT ANY UNDISTURBED PROTECTION DEVICES ARE FIXED SECURELY.	GC		GC		GC	
35	INSTALL THE EVAPORATORS (MECHANICAL, ELECTRICAL, PLUMBING AND CONTROLS) AND CONTROL PANELS AS DETAILED ON THE PRINTS.	N/A		N/A		RC	
36	EVACUATE AND PRESSURE TEST THE EVAPORATORS AND ANY PIPING MODIFIED DURING THE WORK.	N/A		N/A		RC	
37	INSTALL AND COMMISSION REFRIGERANT LEAK DETECTION SYSTEM AS NOTED ON THE PROJECT PRINTS.	N/A		N/A		RC	
38	INSTALL / MODIFY ALL UTILITIES FOR FINAL BOX CONFIGURATION, (CONDENSATE PIPING, CONDUITS, J-BOX, LIGHTING, FIRE SUPPRESSION ETC.) INSTALL CONDUIT FOR APX CABLING. SEAL ALL PENETRATIONS PER SPECS	GC		GC		GC	
39	SWITCH ON THE REFRIGERATION, LIGHTING AND OTHER SYSTEMS WITHIN THE WALK-IN.	RC		RC		RC	
40	COMMISSION THE EVAPORATORS, VALVES AND CONTROLS AS REQUIRED. CHECK AND ADJUST MECHANICAL TXV SUPERHEATS TO OEM RECOMMENDATIONS, AND EPR / ABV SETTINGS PER LEGEND.	N/A		N/A		RC	
41	FURNISH HCR AIR DOOR AS REQUIRED.	N/A		N/A		OEM/WMT	
42	FIELD-INSTALL AND START-UP HCR AIR DOORS AS REQUIRED.	N/A		N/A		RC	
43	SUBMIT PROGRAMMING CHANGE REQUEST (PCR) TO WMSE@NOVAR.COM	N/A		N/A		RC	
44	CARRY OUT ANY CONTROLS PARAMETER CHANGES AND PERFORM REMOTE CHECKOUT.	N/A		N/A		BAS	
45	FURNISH CONTROLS SUPPORT TO THE INSTALLING CONTRACTOR.	N/A		N/A		BAS	
47	REINSTALL / RECOMMISSION THE APX REPEATER DEVICE.	WMT		WMT		WMT	
48	INSTALL SHELVING / RACKING AS INDICATED ON THE PLANS. RE-INSTALL RACKING AS NECESSARY.	WMT		WMT		WMT	
49	ANCHOR RACKING AS INDICATED ON THE PLANS.	GC		GC		GC	
50	INSTALL CIRCUIT LABELS TO THE WALK-IN BOX, CONTROLLERS AND EVAPORATORS AS REQUIRED.	RC		RC		RC	
51	COMPLETE ASSET TAGGING PROCESS	GC		GC		GC	
52	ALONG WITH THE FACILITIES SERVICES MANAGER, CARRY OUT A THOROUGH LEAK TEST ON ALL WELDED AND MECHANICAL JOINTS INSTALLED OR DISTURBED DURING THE PROJECT.	RC		RC		RC	
53	HAND OVER THE COMPLETED WALK-IN BOX TO THE STORE. (WALK-IN BOX MUST BE CLEAN, AT OPERATIONAL TEMPERATURE AND FULLY FUNCTIONAL)	GC		GC		GC	
54	RESTOCK PRODUCT BACK INTO THE WALK-IN BOX.	WMT		WMT		WMT	
56	DECOMMISSION AND REMOVE THE OLD WALK-IN PANELS. IN TEXAS, ALL DECOMMISSIONED WALK-IN PANELS WILL BE REMOVED FROM THE STORE BY QUICK REFRIGERATION. COORDINATE REMOVAL AND DISPOSAL WITH WMT MECHANICAL CONSTRUCTION MANAGER. IMMEDIATE SALVAGE/LEGAL DISPOSAL OF ALL DECOMMISSIONED EQUIPMENT AND CONSTRUCTION DEBRIS SHALL BE RESPONSIBILITY OF CONTRACTOR.	N/A		N/A		GC	
56	REMOVE THE OLD LEGENDS AND INSTALL REPLACEMENT LEGENDS AS SUPPLIED BY THE EOR / OEM.	RC		RC		RC	
57	PROVIDE TYPEWRITTEN SCHEDULES FOR ALL AFFECTED ELECTRICAL PANELBOARDS.	GC		GC		GC	
57	SHUT DOWN AND ARRANGE FOR THE REMOVAL OF ANY TEMPORARY, REFRIGERATED STORAGE.	WMT		WMT		WMT	
58	AFTER ALL CHANGES HAVE BEEN MADE TO A RACK, REMOVE ANY COMPRESSOR SUCTION FILTERS / SOCKS AND REPLACE THE RACK LIQUID LINE FILTERS. LEAVE THE OLD FILTERS / DRIERS IN THE RACK HOUSE TO BE INSPECTED BY THE MCM.	RC		RC		RC	
59	SUBMIT REQUIRED REFRIGERANT TRACKING AND OTHER REGULATORY FORMS AS REQUIRED BY THE END OF COMMISSIONING WEEK. COMPLETED REFRIGERANT TRACKING FORMS ARE TO BE UPLOADED TO WRIKE AND EMAILED TO MCEQUIP@WALMART.COM.	RC		RC		RC	
60	CLEAR SITE OF ALL TOOLS, UNUSED INSTALLATION MATERIALS AND TRASH.	GC/PS		GC/PS		GC/PS	
61	LOOSEN AND RE-TIGHTEN OR REMOVE AND RE-INSTALL UTILITIES (CONDENSATE PIPING, CONDUITS, J-BOX, FIRE SUPPRESSION, ETC.) AS REQUIRED IN ORDER TO ALLOW FOR THE WORK TO BE CARRIED OUT	GC		GC		GC	

FIELD INSTALLED COMPONENTS AND EQUIPMENT RESPONSIBILITY MATRIX

SYSTEM	EQUIPMENT	EXISTING RACKS	TCO2 CONDENSING UNIT	NA	NA	NA	NOTES
MISC	UNIT / PACK / SKID	N/A	(SEE REFRIG TCO2 CONDENSING UNIT SCHEDULE)				
	END OF LOOP BYPASS VALVE	N/A	N/A				
	REFRIGERANT	RC	RC				
	VALVE DRIP PAN	N/A	N/A				
	SYSTEM PIPING ROOF PENETRATION DRIP PAN	N/A	RC				
	GLYCOL	RC	N/A				
	COMPRESSORS	(SEE COMPRESSOR SCHEDULE)	N/A				
	COMPRESSOR CAPACITY CONTROLS	(SEE COMPRESSOR SCHEDULE)	N/A				
CHARGING STATION	CHARGING STATION ASSEMBLY	N/A	RC				
	FILTER DRIER	N/A	RC				
	ISOLATION VALVES	N/A	RC				
	PIPING	N/A	RC				
	PRESSURE GAUGE	N/A	RC				
	PRESSURE RELIEF VALVES	N/A	RC				
	SIGNAGE	N/A	RC				
CASES	CASE	(SEE REFRIGERATION SYSTEM SCHEDULE)	(SEE REFRIGERATION SYSTEM SCHEDULE)				
	LLSV	(SEE REFRIGERATION SYSTEM SCHEDULE)	(SEE REFRIGERATION SYSTEM SCHEDULE)				
	EPR	(SEE REFRIGERATION SYSTEM SCHEDULE)	N/A				
	ISOLATION VALVES	RC	N/A				
	ISO-CHECK VALVES	N/A	RC				A
	AUTO-FLOW RETURN BALANCE VALVE	N/A	N/A				C
WALK-IN COILS	FAN-COIL	(SEE FAN-COIL UNIT SCHEDULE)	(SEE FAN-COIL UNIT SCHEDULE)				
	LLSV	(SEE FAN-COIL UNIT SCHEDULE)	(SEE FAN-COIL UNIT SCHEDULE)				
	EPR	(SEE FAN-COIL UNIT SCHEDULE)	N/A				
	EXPANSION VALVE, NOZZLE, AND DISTRIBUTOR	(SEE FAN-COIL UNIT SCHEDULE)	(SEE FAN-COIL UNIT SCHEDULE)				
	ISOLATION VALVES	RC	N/A				
	ISO-CHECK VALVES	N/A	RC				
	RETURN/SUCTION LINE CHECK VALVE	N/A	(SEE FAN-COIL UNIT SCHEDULE)				B
	AUTO-FLOW RETURN BALANCE VALVE	N/A	N/A				
LEAK DETECTION	LEAK DETECTION PANEL	(SEE LEAK DETECTION EQUIPMENT SCHEDULE)	(SEE LEAK DETECTION EQUIPMENT SCHEDULE)				
	ZONE ALARM	(SEE LEAK DETECTION EQUIPMENT SCHEDULE)	(SEE LEAK DETECTION EQUIPMENT SCHEDULE)				
	LEAK DETECTION SENSOR	(SEE LEAK DETECTION EQUIPMENT SCHEDULE)	(SEE LEAK DETECTION EQUIPMENT SCHEDULE)				
	HORN/STROBE	(SEE LEAK DETECTION EQUIPMENT SCHEDULE)	(SEE LEAK DETECTION EQUIPMENT SCHEDULE)				
	EMERGENCY SIGNAGE	RC	RC				
	LEAK DETECTION SENSOR COVER	(SEE APPENDIX A OF THE SPEC)	(SEE APPENDIX A OF THE SPEC)				

GENERAL NOTES:

1. "RC" INDICATES THAT THE REFRIGERATION CONTRACTOR SHALL FURNISH AND INSTALL.
2. "BASC" INDICATES THAT THE BUILDING AUTOMATION SYSTEM CONTRACTOR SHALL FURNISH AND INSTALL.
3.

NOTES:

A. ISO-CHECK VALVES ARE CIRCUIT LEVEL VALVES. INTERNAL CASE ISO-CHECK VALVES ARE PROVIDED BY THE CASE MANUFACTURER.
B. RETURN/SUCTION LINE CHECK VALVES ARE REQUIRED FOR CIRCUIT AND COIL LEVEL. REFERENCE FAN-COIL PIPING DETAILS.
C. CASE AUTO-FLOW RETURN BALANCE VALVES ARE FACTORY INSTALLED BY THE CASE MANUFACTURER.
D.
E.

LEAK DETECTION

NOTE

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#	SCOPE OF WORK	RESPONSIBLE PARTY
		LEAK DETECTION
		REMODEL
1	FURNISH THE LEAK DETECTION PANELS, SENSORS, SENSOR COVERS, HORN/STROBES, AND ZONE ALARM SILENCE PANELS AS REQUIRED TO COMPLETE THE PROJECT.	OEM/WMT
2	INVENTORY ALL NEW LEAK DETECTION COMPONENTS TO CONFIRM APPLICATION MATCHES PROJECT DOCUMENTS.	RC
3	SUBMIT SUPPRESSION EMAIL 24 HOURS PRIOR TO SHUTTING DOWN ANY REFRIGERATION SYSTEMS, HVAC SYSTEMS, OR BUILDING AUTOMATION CONTROL SYSTEMS, SEND E-MAIL TO NSRM@WALMART.COM. THE E-MAIL SHALL STATE WHAT, WHY, AND WHEN IT IS BEING SHUT DOWN AND HOW LONG IT IS ANTICIPATED TO BE DOWN. SEND A FOLLOW UP E-MAIL TO NSRM@WALMART.COM AFTER THE WORK IS COMPLETE AND THE SYSTEM IS BACK UP AND RUNNING.	RC
4	NOTIFY THE WALMART DIGITAL OPERATION CENTER AT RMSUPPORT@WALMART.COM AND ADVISE THEM WHICH SYSTEM WILL BE IMPACTED BY THE WORK.	RC
5	INSTALL THE LEAK DETECTION PANELS, PANEL LABELS, SENSORS, SENSOR LABELS, SENSOR COVERS, HORN/STROBES, AND ZONE ALARM SILENCE PANELS, IDENTIFICATION PLACARDS, SIGNAGE AS REQUIRED TO COMPLETE THE PROJECT.	RC
6	PROVIDE CONDUIT/RACEWAY(S) AS REQUIRED FOR BAS CABLING INSTALLATION	RC
7	FURNISH ALL CONTROLS CABLING AS NECESSARY TO COMPLETE THE WORK. (24 VOLTS OR LESS)	OEM/WMT
8	INSTALL AND TERMINATE ALL CONTROL WIRING AND COMPONENTS, (24 VOLTS OR LESS) AS DETAILED ON THE PRINTS.	RC
9	PROVIDE ALL ELECTRICAL POWER CABLING FROM POWER SOURCE.	GC
10	TERMINATE POWER CABLES TO LEAK DETECTION PANEL(S).	RC
11	COORDINATE DATES TO COMMISSION LEAK DETECTION SYSTEM WITH VENDOR (4-WEEK MIN)	GC
12	BE PRESENT DURING VENDOR COMMISSIONING OF THE LEAK DETECTION SYSTEM, AND ADDRESS ALL ISSUES FOUND BY VENDOR DURING COMMISSIONING.	GC/RC
13	FACILITATE REMOTE CHECKOUT PROCESS AND PROVIDE CHECKOUT CONFIRMATION FOR EACH ZONE INCLUDED IN THE PROJECT'S SCOPE OF WORK, AFTER ONSITE COMMISSIONING AS NEEDED	RC
14	VERIFY THAT LEAK DETECTION SYSTEM IS CLEAR OF LOCAL ALARMS FOR EACH ZONE INCLUDED IN THE PROJECT'S SCOPE OF WORK. CONFIRM WITH STORE MANAGEMENT THAT THE WORK IS COMPLETE, AND THE LEAK DETECTION SYSTEM IS FULLY FUNCTIONAL.	RC
15	VERIFY WITH BAS VENDOR PROPER READING OF CALIBRATED SENSOR (PPM LEVEL) AND DIGITAL CLOSURE FOR EACH ZONE INCLUDED IN THE PROJECT'S SCOPE OF WORK.	RC
16	CONFIRM PROPER OPERATION OF ALL ALARMS, VALVES, HORNS, STROBES, INPUTS (ANALOGE AND DIGITAL), AND ALARM SILENCERS IN ACCORDANCE WITH VENDORS AND/OR PROJECT DRAWING'S SEQUENCE OF OPERATION PRIOR TO VENDOR COMMISSIONING.	RC
17	CLEAR SITE OF ALL TOOLS, UNUSED INSTALLATION MATERIALS AND TRASH.	RC

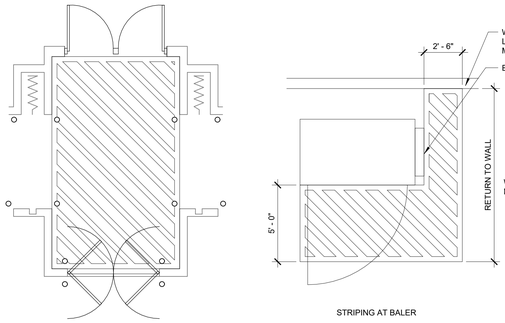
REFRIGERATION PIPE RE-INSULATION

NOTE

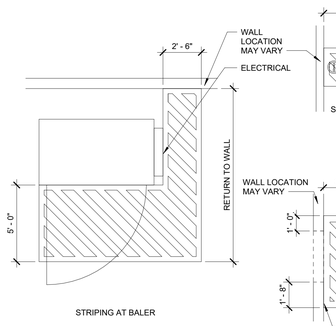
THIS DOCUMENT IS INTENDED TO DESCRIBE IMPORTANT ELEMENTS OF THIS PROJECT AND TO DEFINE THE RESPONSIBLE PARTIES FOR THIS WORK STREAM. IT IS NOT MEANT TO BE AN EXHAUSTIVE SOURCE OF INFORMATION OR A COMPLETE SCOPE OF WORK. IT SHALL BE READ AND USED IN CONJUNCTION WITH ADDITIONAL, DETAILED INFORMATION IN THE WALMART PROJECT DRAWINGS AND SPECIFICATIONS, AND IN PUBLICATIONS AVAILABLE FROM THE MANUFACTURER.

#	SCOPE OF WORK	RESPONSIBLE PARTY	
		REMODEL	CAPX
1

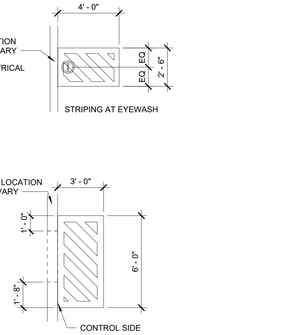
STRIPING CONDITIONS



STRIPING AT HALLWAY DOOR



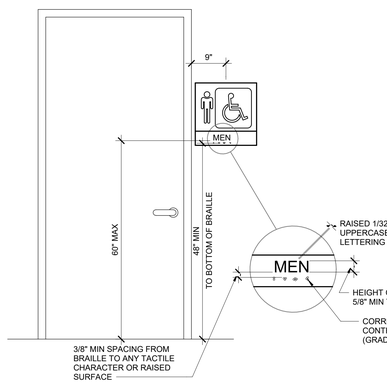
STRIPING AT BALER



STRIPING AT COMPACTOR

STRIPING REQUIREMENTS
1. 5" WIDE PAINTED STRIPES (P5) AT 12" ON CENTER, AT 45 DEGREE ANGLE TO 5" WIDE EXTERIOR BOUNDARY LINES
2. IF EXISTING HALLWAY, BALER, COMPACTOR, OR EYEWASH WARNING AREAS ARE PAINTED SOLID OR HAVE INCORRECT PATTERN, REMOVE EXISTING PAINT AND PAINT PER THE STRIPING CONDITIONS SHOWN HERE.

RESTROOM DOOR SYMBOLS



SIGNS AND IDENTIFICATION

1. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE THE STANDARD USED TO IDENTIFY FACILITIES THAT ARE ACCESSIBLE TO AND USABLE BY PHYSICALLY DISABLED PERSONS AS SET FORTH IN TITLE III AND AS SPECIFICALLY REQUIRED IN THIS SECTION.
2. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND. THE BLUE SHALL BE EQUAL TO COLOR NO. 15090 IN FEDERAL STANDARD 595C.
3. FOR CHARACTER PROPORTION, THE UPPERCASE LETTER "O" SHALL BE USED TO DETERMINE THE ALLOWABLE WIDTH OF ALL CHARACTERS OF A FONT. THE WIDTH OF THE UPPERCASE LETTER "O" OF THE FONT SHALL BE 55 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I".
4. MINIMUM CHARACTER HEIGHT SHALL COMPLY WITH 2009 ICC A117.1 TABLE 703.2.4. VIEWING DISTANCE SHALL BE MEASURED AS THE HORIZONTAL DISTANCE BETWEEN THE CHARACTER AND AN OBSTRUCTION PREVENTING FURTHER APPROACH TOWARDS THE SIGN. CHARACTER HEIGHT SHALL BE BASED ON THE UPPERCASE LETTER "I". CHARACTER HEIGHT MEASURED FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8" (16 MM) MINIMUM AND 2 INCHES (51 MM) MAXIMUM.
5. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND.
6. WHEN RAISED CHARACTERS OR SYMBOLS ARE USED, THEY SHALL CONFORM TO THE FOLLOWING:
   A. CHARACTERS SHALL BE RAISED 1/32" MINIMUM AND SHALL BE SANS-SERIF UPPERCASE CHARACTERS. RAISED LETTERS SHALL BE DUPLICATED IN BRAILLE.
   B. RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8" HIGH AND 2" MAXIMUM BASED ON THE HEIGHT OF THE LETTER "I".
   C. PICTORIAL SYMBOL SIGNS (PICTOGRAMS) SHALL HAVE TEXT DESCRIPTORS LOCATED DIRECTLY BELOW THE PICTOGRAM FIELD. PICTOGRAMS SHALL HAVE A FIELD HEIGHT OF 6" MINIMUM. PICTOGRAMS AND THEIR FIELDS SHALL HAVE A NON-GLARE FINISH. PICTOGRAMS SHALL CONTRAST THEIR FIELDS, WITH EITHER A LIGHT PICTOGRAM ON A DARK FIELD OR A DARK PICTOGRAM ON A LIGHT FIELD.
7. CONTRACTED (GRADE 2) BRAILLE SHALL BE USED WHEREVER BRAILLE IS REQUIRED. DOTS SHALL BE 0.090" (2.3 MM) TO 0.100" (2.5 MM) ON CENTER IN EACH CELL WITH 0.241" (6.1 MM) TO 0.300" (7.6 MM) SPACE BETWEEN CORRESPONDING DOTS IN ADJACENT CELLS. DOTS SHALL BE RAISED A MINIMUM OF 0.025" (0.6 MM) TO 0.037" (0.9 MM) ABOVE THE BACKGROUND.
8. WHEN PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, RAISED LETTERS SHALL BE ACCOMPANIED BY BRAILLE. TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES (1220 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASE OF THE LOWEST BRAILLE CELLS AND 60 INCHES (1525 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST TACTILE CHARACTER. WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18 INCHES (455 MM) MINIMUM BY 18 INCHES (455 MM) MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION. EXCEPTION: SIGNS WITH TACTILE CHARACTERS SHALL BE PERMITTED ON THE PUSH SIDE OF DOORS WITH CLOSERS AND WITHOUT HOLD-OPEN DEVICES.
9. SIGNS TO BE PROVIDED AT ALL PUBLIC MEN, WOMEN, FAMILY AND UNISEX RESTROOMS. ROOM NAME SHALL BE "RESTROOM" AT UNISEX TOILETS.

SYMBOLS LEGEND

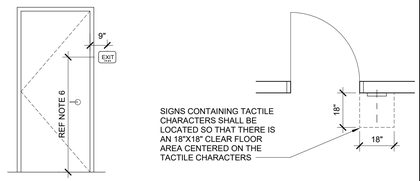
- X-XX / 10.1 — REFERENCE AT KEYNOTE INDICATOR; KEYNOTE INDICATOR
- X.XX / X.XX / X.XX — A KEYNOTE OR BLOCK OF KEYNOTES WITH A LEADER ATTACHED APPLY SPECIFICALLY TO THE ITEM, AREA, OR SURFACE TO WHICH THE LEADER IS POINTING
- SALES / 100 / X.XX X.XX / X.XX X.XX / X.XX X.XX — IN ADDITION TO THE ROOM FINISH SCHEDULE, A KEYNOTE OR BLOCK OF KEYNOTES ATTACHED TO THE ROOM NAME TAG APPLY TO THE ENTIRE ROOM
- P3 — COLOR INDICATOR
- 2-A2 — FULL AND PARTIAL SECTION INDICATORS
- 2-A2 — EXTERIOR AND INTERIOR ELEVATION INDICATOR
- SALES / 100 — ROOM NAME AND NUMBER
- A6 — PARTITION TYPE INDICATOR
- 101 / A — DOOR INDICATOR
- M — WINDOW INDICATOR
- TV — TV MONITOR
- A — COLUMN LINE INDICATOR
- 100'-0" / FF EL — HEIGHT ELEVATION INDICATOR
- 100'-0" — PLAN ELEVATION INDICATOR
- 5 / A2 — ENLARGED DETAIL INDICATOR

TACTILE EXIT SIGN

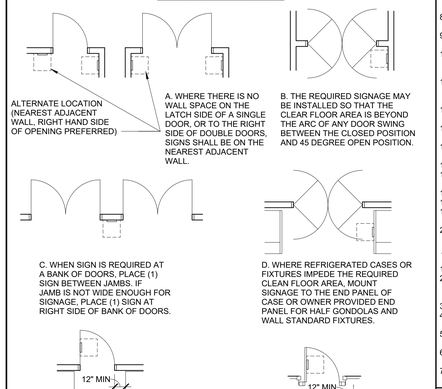
TACTILE SIGN REQUIREMENTS

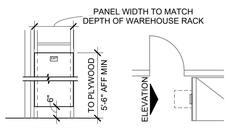
1. A TACTILE SIGN STATING "EXIT" AND COMPLYING WITH ICC A117.1 SHALL BE PROVIDED ADJACENT TO EACH DOOR TO AN EXIT PASSAGEWAY AND THE EXIT DISCHARGE. REF FLOOR PLANS FOR LOCATIONS.
2. FOR CHARACTER WIDTH, THE UPPERCASE LETTER "O" SHALL BE USED TO DETERMINE THE ALLOWABLE WIDTH OF ALL CHARACTERS OF A FONT. THE WIDTH OF THE UPPERCASE LETTER "O" OF THE FONT SHALL BE 55 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE "I" OF THE FONT. (ICC A117.1-2009: 703.3.6) CHARACTER HEIGHT MEASURED FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8" (16 MM) MINIMUM AND 2 INCHES (51 MM) MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I".
3. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND.
4. CHARACTERS SHALL CONFORM TO THE FOLLOWING:
   4.a. LETTERS AND NUMBERS ON SIGNS SHALL BE RAISED 1/32" MINIMUM AND SHALL BE SANS-SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE.
   4.b. RAISED CHARACTERS OR SYMBOLS SHALL BE A MINIMUM OF 5/8" HIGH AND A MAXIMUM OF 2".
5. CONTRACTED GRADE 2 BRAILLE SHALL BE USED. DOTS SHALL BE 0.090" (2.3 MM) TO 0.100" (2.5 MM) ON CENTER IN EACH CELL WITH 0.241" (6.1 MM) TO 0.300" (7.6 MM) SPACE BETWEEN CELLS. DOTS SHALL BE RAISED A MINIMUM OF 0.025" (0.6 MM) TO 0.037" (0.9 MM) ABOVE THE BACKGROUND.
6. CHARACTERS SHALL BE 48" MINIMUM ABOVE FINISH FLOOR MEASURED FROM THE BASE OF THE LOWEST BRAILLE CELLS AND 60" MAXIMUM ABOVE FINISH FLOOR MEASURED FROM THE BASELINE OF THE HIGHEST TACTILE CHARACTER.
7. WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE ALONGSIDE THE DOOR AT THE LATCH SIDE. AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. AT DOUBLE DOORS WITH TWO ACTIVE LEAVES, THE SIGN SHALL BE TO THE RIGHT OF THE RIGHT-HAND DOOR. TACTILE SIGNS ARE PERMITTED ON THE PUSH SIDE OF DOORS WITH CLOSERS AND WITHOUT HOLD-OPEN DEVICES. SEE ALTERNATE SOLUTIONS FOR OTHER SCENARIOS.

PREFERRED SOLUTION



ALTERNATE SOLUTIONS





H. WHERE WAREHOUSE RACKS IMPEDE THE REQUIRED CLEAR FLOOR AREA ADJACENT TO THE DOOR, PROVIDE 3/8" A-B PLYWOOD PANEL WITH EASED EDGES AND ATTACH TO THE END OF THE WAREHOUSE RACK USING (4) GALVANIZED CARRIAGE BOLTS. WASHERS AND LOCKNUTS. CARRIAGE BOLTS ARE TO BE SIZED PROPERLY TO ENSURE THE BOLT END DOES NOT PROTRUDE BEYOND THE TOP OF LOCKNUT AND PANEL IS SECURE. IN GROCERY SERVICE AND PREPARATION AREAS, PAINT PLYWOOD P33 UNO.

SITE VERIFICATION REQUIREMENTS:

1. THE ARCHITECT HAS MADE A SCOPE VISIT WITH MEASUREMENTS AND PHOTOGRAPHS OF EXISTING CONDITIONS AND THE ARCHITECTURAL DRAWINGS INDICATE EXISTING CONDITIONS VERIFIED IN THE FIELD. IT REMAINS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS PRIOR TO THE SUBMISSION OF A BID AND TO THE COMMENCEMENT OF ANY WORK. NO ADDITIONAL COMPENSATION WILL BE PAID DUE TO THE CONTRACTOR'S FAILURE TO VERIFY EXISTING SITE CONDITIONS WHICH INCLUDE, BUT ARE NOT LIMITED TO, GRADES, EXTENT OF PAVING, OR UTILITIES.
2. ANY DISCREPANCY WITH THE EXISTING SITE CONDITIONS AND/OR THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATION AND INSTRUCTION. THESE CONSTRUCTION DOCUMENTS HAVE BEEN DESIGNED AND DRAWN ASSUMING EXISTING BUILDING CONDITIONS MATCH THE ORIGINAL DRAWINGS. THE GENERAL CONTRACTOR, IMMEDIATELY UPON ARRIVAL AT THE SITE, SHALL VERIFY ALL EXISTING STRUCTURAL COLUMN DIMENSIONS, STRUCTURAL BEARING HEIGHTS, EXISTING DIMENSIONS, TOP OF MASONRY ELEVATIONS, ROOFING CONDITIONS (INCLUDING PARAPETS, SCUPPERS AND ROOF DRAINS), AND JOIST BEARING ELEVATIONS PRIOR TO THE FABRICATION OF ANY STRUCTURAL ITEMS. IF DISCREPANCIES ARE FOUND BETWEEN WHAT IS SHOWN ON THE DRAWINGS AND EXISTING FIELD CONDITIONS, CONTACT THE WALMART CONSTRUCTION MANAGER AND THE ARCHITECT IMMEDIATELY TO DETERMINE WHAT ACTION SHOULD BE TAKEN TO MATCH EXISTING CONDITIONS. THE BEGINNING OF STRUCTURAL STEEL FABRICATION BY THE GENERAL CONTRACTOR, STEEL FABRICATOR, OR JOIST MANUFACTURER MEANS ACCEPTANCE OF THE EXISTING CONDITIONS.
3. ALL UTILITY LOCATIONS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES (WHETHER SHOWN OR NOT) PRIOR TO THE SUBMISSION OF A BID OR THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE WALMART CONSTRUCTION MANAGER OF THE DISCOVERY OF EXISTING UTILITIES NOT SHOWN OR NOTED ON DRAWINGS.
4. THE CONTRACTOR SHALL VERIFY AND MAINTAIN (REPAIR IF DAMAGED) EXISTING IRRIGATION SYSTEMS AFFECTED BY THE CONSTRUCTION OF THIS PROJECT.
5. THE CONTRACTOR SHALL FIELD LOCATE AND VERIFY ALL PROPERTY LINES, EASEMENTS, SETBACKS AND RESTRICTIONS. A REGISTERED SURVEYOR SHALL ESTABLISH ALL PROPERTY LINES AND SETBACKS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND CLEARLY FLAG PROPERTY LINES AND SETBACKS. IT REMAINS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO DETERMINE EXACT LOCATION OF ALL SAID BOUNDARIES.
6. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS AND DEPTHS OF UNDERGROUND UTILITY SERVICES PRIOR TO ANY EXCAVATION.
7. THE CONTRACTOR SHALL VERIFY ALL GRADES AND PROPOSED FINAL GRADES. IF RAMPS, STOOPS, STAIRS, SIDEWALKS, FLATWORK OR PAVING ARE INSTALLED, VERIFY FINAL GRADES SURROUNDING THE CONSTRUCTION AND ADJUST STAIR RISERS, RAMP LENGTHS, LIMITS OF PAVING, ETC., TO ACCOMMODATE THE REQUIRED RAMP SLOPE, RISER HEIGHTS OR PAVING AREAS. ALL RAMPS AND STAIRS SHALL MEET ADA-ADAAGS (OR ADOPTED HANDICAP ACCESSIBILITY REQUIREMENTS). IF THERE IS A CONFLICT IN FIELD CONDITIONS, NOTIFY WALMART CONSTRUCTION MANAGER AND THE ARCHITECT PRIOR TO THE CONSTRUCTION OR ORDERING OF MATERIALS.
8. THE CONTRACTOR SHALL VERIFY THE EXISTING FINISH FLOOR ELEVATION AT ALL OPENINGS OF THE EXISTING BUILDING PRIOR TO ESTABLISHING THE FINISH FLOOR ELEVATION. TO VERIFY FLOOR ELEVATION, THE CONTRACTOR SHALL REMOVE A SMALL PORTION OF THE BLOCK WALL AT THE PROPOSED OPENING BETWEEN THE EXISTING STORE AND THE ADDITION.
9. THE CONTRACTOR SHALL VERIFY EXISTING FOOTING DEPTHS AND MATCH AT ADDITION TO INSURE PROPER BLOCK COURSING. ANY DISCREPANCY SHALL BE REPORTED TO THE WALMART CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.
10. THE CONTRACTOR SHALL CORE THE ROOF INSULATION TO DETERMINE ITS THICKNESS AFTER CONTRACT AWARD. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MATCH EXISTING ROOF INSULATION THICKNESS ON THE ADDITION UNLESS DIRECTED OTHERWISE TO INSTALL 3-INCH INSULATION IN SEPARATED AND ISOLATED ROOF CONDITIONS. REFER TO ROOFING SPECIFICATION SECTION.
11. REPORT ANY DISCREPANCIES FOUND IN THE FIELD IMMEDIATELY TO WALMART AND THE ARCHITECT PRIOR TO MAKING ANY STRUCTURAL MODIFICATIONS OR ORDERING OF ANY MATERIALS.

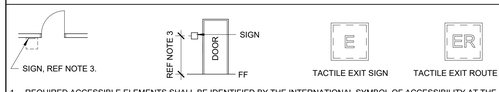
GENERAL CONSTRUCTION REQUIREMENTS:

1. ALL WORK SHALL BE DONE IN A SAFE AND WORKMANLIKE MANNER AND IN STRICT ACCORDANCE WITH THE LOCAL AND/OR STATE (IF APPLICABLE) BUILDING CODES, NATIONAL ELECTRIC CODE, ADA-ADAAG AND OTHER ADOPTED ACCESSIBILITY STANDARDS, OSHA, AND ALL APPLICABLE CODES, REGULATIONS, ORDINANCES AND AUTHORITIES HAVING JURISDICTION (AHJ).
2. PROVISIONS REGARDING THE USE OF GAS AND DIESEL EQUIPMENT WITHIN AN ENCLOSED BUILDING, FORMERLY INCLUDED IN THIS PARAGRAPH, ARE NOW INCLUDED IN SECTION 01351 - REGULATORY COMPLIANCE
3. PROVISIONS REGARDING CORDS FOR ELECTRICAL EQUIPMENT AND ROUTING OF EQUIPMENT CORDS AND HOSES, FORMERLY INCLUDED IN THIS PARAGRAPH, ARE NOW INCLUDED IN SECTION 01351 - REGULATORY COMPLIANCE
4. EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO REVIEW THESE DOCUMENTS DOES NOT RELIEVE THE SUBCONTRACTOR OF ANY RESPONSIBILITY FOR PERFORMING WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.
5. THE EXISTING BUILDING SHALL BE PROTECTED FROM MOISTURE, DUST AND DEBRIS. INSTALL DUST PARTITIONS OR DRAPES AS REQUIRED AND/OR AS DIRECTED BY WALMART CONSTRUCTION MANAGER TO KEEP DUST AND MOISTURE FROM THE OPERATING AREAS OF THE STORE.
6. ANY DAMAGE TO WALMART'S PROPERTY, WHICH OCCURS DURING THE PROCESS OF CONSTRUCTION SHALL BE REPAIRED/REPLACED AT NO ADDITIONAL COST TO WALMART; THIS INCLUDES ALL MERCHANDISE. CONTRACTOR SHALL PAY THE COST FOR ALL DAMAGED MERCHANDISE.
7. THE CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF THE EXISTING BUILDING SECURITY AT ALL TIMES. THIS INCLUDES KEEPING THE BUILDING SECURE FROM PERSONS, ENVIRONMENTAL ELEMENTS OR HAZARDS. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN THE INTEGRITY OF ALL EXISTING SECURITY SYSTEMS. THE CONTRACTOR SHALL OBTAIN PERMISSION FROM THE WALMART CONSTRUCTION MANAGER PRIOR TO THE MODIFICATION OF ANY EXISTING SECURITY SYSTEM FOR THE OPENING (DEMOLITION) OF ANY EXTERIOR WALL.
8. THE CONTRACTOR SHALL KEEP THE WORK AREA CLEAN AND FREE OF DEBRIS AND REMOVE ALL TRASH AND DEBRIS FROM THE CONSTRUCTION AREA DAILY. NO FLAMMABLE MATERIALS OR LIQUIDS MAY BE STORED IN THE EXISTING BUILDING OR IN ANY ADDITION.
9. REMOVE ANY EXISTING EQUIPMENT, FIXTURES, FURNISHINGS, ACCESSORIES, SERVICES, SIGNAGE, FINISHES OR SURFACES AS REQUIRED SHOWN OR NOT SHOWN, FOR THE INSTALLATION OF CONSTRUCTION. PROVIDE FURRING FOR CONDUITS AND PIPING, SHOWN OR NOT, AND FINISH OUT FURRING TO MATCH ADJACENT EXISTING FINISHES.
10. REPAIR, RE-ROUTE, AND EXTEND ALL SERVICES, PIPING, CONDUIT OF EXISTING ITEMS AND EQUIPMENT AS REQUIRED DURING THE CONSTRUCTION PROCESS TO MAINTAIN NORMAL STORE OPERATIONS AS REQUIRED FOR THE INSTALLATION OF CONSTRUCTION. THIS INCLUDES ALL ITEMS SHOWN OR NOT SHOWN ON THE DRAWINGS. RESET EXISTING EQUIPMENT, FIXTURES, FURNISHINGS, ACCESSORIES OR RELATED ITEMS, INCLUDING SIGNAGE, AS REQUIRED FOR PROPER OPERATION.
11. WHEN EQUIPMENT, FIXTURES, FURNISHINGS, ACCESSORIES, SERVICES, FINISHES OR SURFACES ARE TEMPORARILY REMOVED OR RELOCATED IN ORDER TO PERFORM WORK, THE CONTRACTOR IS RESPONSIBLE FOR RETURNING THEM TO THEIR ORIGINAL POSITION, RECONNECTION OF SERVICES AND APPROPRIATE MEANS OF ATTACHMENT UNLESS SPECIFICALLY DIRECTED TO DO OTHERWISE.
12. WHERE EXISTING FINISHES ARE TO REMAIN, CLEAN, REPAIR, PATCH AND REPAINT AS NECESSARY TO BLEND IN WITH ADJACENT WORK. COORDINATE WITH WALMART CONSTRUCTION MANAGER
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TIMELY ORDERING OF MATERIALS TO PROHIBIT DELAYS OF THE CONSTRUCTION SCHEDULE OF THIS PROJECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE DELIVERY OF MATERIALS IN A TIMELY MANNER.
14. IT IS IMPERATIVE THAT THE ROOF FRAMING, DECKING AND ROOFING SYSTEM BE COMPLETED IMMEDIATELY UPON THE DEMOLITION OF THE EXTERIOR WALL TO ELIMINATE POTENTIAL WATER DAMAGE OR MOISTURE INFILTRATION. THE CONTRACTOR SHALL KEEP THE BUILDING WATERTIGHT AT ALL TIMES.
15. THE GENERAL CONTRACTOR SHALL RESPOND TO ALL REQUIREMENTS OF THE STRUCTURAL ENGINEER/ARCHITECT FOR VERIFICATIONS, RESPONSES, AND SUBMISSIONS.
16. IF MODIFICATION TO SPRINKLER SYSTEM IS REQUIRED THE GENERAL CONTRACTOR SHALL HIRE A LICENSED SPRINKLER CONTRACTOR. CONTRACTOR TO SUBMIT SIGNED AND SEALED SPRINKLER DRAWINGS FOR APPROVAL PRIOR TO ANY ALTERATION OF THE AUTOMATIC SPRINKLER SYSTEM. WORK TO BE DONE UNDER SEPARATE PERMIT.
17. ALL ADJACENT BUILDINGS (IF APPLICABLE) SHALL REMAIN IN SERVICE DURING DEMOLITION/CONSTRUCTION.
18. MUD AND DEBRIS TRACKED ONTO OWNER PAVING OR CITY STREETS TO BE CLEANED IMMEDIATELY.
19. BUILDING COMPONENTS AFFECTED BY THE SCOPE OF WORK AND ALLOWED TO REMAIN SHALL BE SECURED TO PREVENT FALLING, LOOSENING, OR CREATING DAMAGE OF ANY KIND IN THE FUTURE.
20. DO NOT UTILIZE WALMART DRAINS WHEN CLEANING TOOLS/EQUIPMENT AND/OR DISPOSING OF CONSTRUCTION DEBRIS.

DEMOLITION REQUIREMENTS:

1. ALL DEMOLITION SHALL BE CARRIED OUT IN A SAFE MANNER AND IN STRICT ACCORDANCE WITH OSHA REGULATIONS.
2. THE CONTRACTOR SHALL FIELD VERIFY THE EXTENT OF DEMOLITION. THE WORK INCLUDES, BUT IS NOT LIMITED TO, THE DEMOLITION AND REMOVAL OF WALLS, DOORS, FIXTURES, PLUMBING, PAVING, MECHANICAL AND ELECTRICAL ITEMS INCLUDING CONDUITS AND DUCTWORK AS SHOWN ON DRAWING OR AS REQUIRED FOR THE INSTALLATION OF THE WORK FOR A COMPLETE JOB.
3. WHEN UTILITIES ARE REMOVED, CAP AND SEAL A MINIMUM OF 8" BELOW FINISH FLOOR OR A MINIMUM OF 6" ABOVE FINISH CEILING.
4. WHEN REMOVING EXISTING STRUCTURAL ITEMS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SHORING, BRACING AND SUPPORT SYSTEMS TO KEEP THE EXISTING STRUCTURE INTACT AND IN A SAFE CONDITION. REFER TO SECTIONS 02023 AND 02251.
5. THE CONTRACTOR MAY NOT REMOVE THE BLOCK WALL IN A PROPOSED OPENING PRIOR TO THE ROOFING SYSTEM OVER THE ADDITION BEING MADE WATERTIGHT. COORDINATE WITH THE WALMART CONSTRUCTION MANAGER AND THE STORE MANAGER TO SCHEDULE FOR DEMOLITION FOR OPENINGS.
6. THE CONTRACTOR SHALL REMOVE ANY BUILDING SIGNAGE THAT INTERFERES WITH THE BUILDING ADDITION. WALMART WILL REINSTALL SIGNAGE OR ADD SIGNAGE AT COMPLETION OF ADDITION.
7. NOTES INDICATING DEMOLITION WORK ARE NOT CONFINED SOLELY TO THE DEMOLITION PLANS. THE GENERAL CONTRACTOR SHALL REVIEW ALL CONSTRUCTION DOCUMENTS, INCLUSIVE OF SCHEDULES AND SPECIFICATIONS, TO DETERMINE FULL EXTENT OF DEMOLITION WORK.

SIGNAGE LEGEND



1. REQUIRED ACCESSIBLE ELEMENTS SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AT THE FOLLOWING LOCATIONS:
   A. ACCESSIBLE ENTRANCES WHERE NOT ALL ENTRANCES ARE ACCESSIBLE
   B. ACCESSIBLE ROOMS WHERE MULTIPLE SINGLE-USER TOILETS ARE CLUSTERED AT A SINGLE LOCATION
   C. ACCESSIBLE CHECK-OUT AISLES WHERE NOT ALL AISLES ARE ACCESSIBLE. THE SIGN, WHERE PROVIDED, SHALL BE ABOVE THE CHECK-OUT AISLE IN THE SAME LOCATION AS THE CHECK-OUT AISLE NUMBER OR TYPE OF CHECK-OUT IDENTIFICATION
   D. UNISEX TOILET AND BATHING ROOMS
   E. ACCESSIBLE DRESSING, FITTING AND LOCKER ROOMS WHERE NOT ALL SUCH ROOMS ARE ACCESSIBLE
2. DIRECTIONAL SIGNAGE INDICATING THE ROUTE TO THE NEAREST LIKE ACCESSIBLE ELEMENT SHALL BE PROVIDED AT THE FOLLOWING LOCATIONS. THESE DIRECTIONAL SIGNS SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY:
   A. AT EACH SEPARATE-SEX TOILET INDICATING THE LOCATION OF THE NEAREST UNISEX TOILET
3. TACTILE SIGNAGE SHALL BE LOCATED 48 INCHES (1220 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASE OF THE LOWEST BRAILLE CELLS AND 60 INCHES (1525 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST TACTILE CHARACTER. WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18 INCHES (455 MM) MINIMUM BY 18 INCHES (455 MM) MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION. EXCEPTION: SIGNS WITH TACTILE CHARACTERS SHALL BE PERMITTED ON THE PUSH SIDE OF DOORS WITH CLOSERS AND WITHOUT HOLD-OPEN DEVICES.
4. CHARACTER AND SYMBOLS OF SIGNS SHALL BE IN CONTRAST WITH THEIR BACKGROUND AND SHALL BE EGGSHELL, MATTE, OR OTHER NON-GLARE MATERIALS OR FINISHES.
5. ACCESSIBLE SIGNAGE SHALL USE GRADE 2 BRAILLE AND MUST COMPLY WITH ICC A117.1 SECTION 703.4 OR ADA SECTION 703.3.

INSECT CONTROL UNIT LEGEND

FINAL NUMBER OF UNITS RECEIVED IS DETERMINED BY WALMART FOOD SAFETY AND HEALTH PEST MANAGEMENT AND PEST ELIMINATION SERVICES PROVIDER

TYPE	TOTAL
D	4

D

NOTES:
1. ALL UNITS TO BE INSTALLED BY PEST ELIMINATION SERVICES PROVIDER
2. UNITS ARE NOT TO BE INSTALLED ABOVE ANY FOOD SERVICE/PREP EQUIPMENT
3. UNITS ARE TO BE INSTALLED (INDICATED WITH BROWN RECEPTACLES AND COVERS) AS INSTRUCTED WITHIN THE CONSTRUCTION DOCUMENTS. REFERENCE ARCHITECTURAL AND ELEC DRAWINGS FOR PROPER LOCATION

#

BID ALLOWANCE SCHEDULE

THE QUANTITIES PROVIDED BELOW ARE FOR PRELIMINARY ESTIMATING/BIDDING PURPOSES ONLY.

ITEM DESCRIPTION	QTY	ADDITIONAL NOTES	SHEET REFERENCE
CART CORRALS	13 CORRALS		SP1
DUST WALL	20 LF	TENANT SPACE	D1
	120 LF	MODULAR PHARMACY	
	180 LF	REFRIGERATED CASES	
GONDOLA SHELVES	13 SHELVES		A1
CASH WRAPS	30		A1
PIPE INSULATION	24 LF		A1
STRAPPED EQUIPMENT UPDATES AT COLUMNS	16		A1
CLEAN/SPILL STATION ATTACHMENTS	5	COLUMN ATTACHMENT - MOUNTING BRACKET W/ (2) STEEL SELF DRILLING #10 x 1" TEK SCREWS. DRYWALL ATTACHMENT - MOUNTING BRACKET W/ (2) #10 x 1" WOOD SCREWS. INSTALL 2x6 WOOD BLOCKING at 4' TO CENTER AFF	C2
WALL FINISH	100 SF	GYP - SALES FLOOR (CUSTOMER VISIBLE AREAS)	A1
	100 SF	FRP - GROCERY SERVICE (CUSTOMER VISIBLE AREAS)	A1
	100 SF	TILE - GROCERY SERVICE (CUSTOMER VISIBLE AREAS)	A1
	25 LF	BASE - GROCERY SERVICE (CUSTOMER VISIBLE AREAS)	A1
FLOOR FINISH	180 SF	TILE AND/OR EPOXY - GROCERY SERVICE / PREP AREAS	A1
BOLT HOLES/ SPALLS TO REPAIR	120		A1.1
JOINT REPLACEMENT	5,000 LF	SALES FLOOR AND CUSTOMER AREAS	A1.1
	96 LF	FRONT SIDEWALK AT ENTRANCES	SP1
CEILING	---	REF SA1 CEILING SCHEDULE	

CEILING SCHEDULE

FULL CEILING TILE REPLACEMENT, UNO
CLEAN AND PAINT (P8) CEILING GRID PER SPEC IN ALL AREAS REQUIRING CEILING TILE REPLACEMENT

	CEILING TILE REPLACEMENT AREAS	QUANTITY OF TILES
NON SALES AREA	VESTIBULE (OPEN TO STRUCTURE)	N/A
	OFFICES AND ALCOVES	---
	CASH (TYP GYP CLG)	N/A
	COUNTING (TYP GYP CLG)	N/A
	MANAGERS OFFICE	21
	AD OFFICE	27
	TRAINING	83
	PERSONNEL	27
	INVOICING/ / AD OFFICE	33
	UPC/UPS	27
	ALCOVES	45
	CUSTOMER SERVICE	91
	VISION CENTER (SALES, WAITING AND OFFICES / EXAM ROOMS)	232
	ACC CUSTOMER SERVICE AND WAITING (OPEN TO...	N/A
	RESTROOMS (TYP GYP CLG)	N/A
	SITE TO STORE (OPEN TO STRUCTURE)	N/A
	BREAKROOM	163
	DELI / BAKERY SERVICE AND PREP AREAS	336
	MEAT UTILITY	30
	PHARMACY	114
	ALL OTHER ROOMS	ETR (UNO)
CEILING CLEANING		
ALL CEILING TYPES	REFERENCE SPECS	

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STIPULATION FOR REUSE

THE DRAWINGS WERE PREPARED FOR USE ON A SPECIFIC SITE AT CAMERON, NC. COVETOMARKDUDS.1 WITH ITS ISSUE DATE THEREOF, IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR WITH ANY ALTERATIONS TO THE DRAWINGS. ANY USE ON ANOTHER PROJECT REQUIRES THE WRITTEN PERMISSION OF THE ARCHITECTS AND ENGINEERS. ARCHITECTS AND ENGINEERS SHALL NOT BE RESPONSIBLE FOR ANY REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED UNLESS EXECUTED BY THE IAR

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ISSUE BLOCK

4	ADD2	09/10/2025
8	CCD3	02/12/2026

CHECKED BY: MMA
DRAWN BY: WM
PROTO CYCLE: 07/26/24
DOCUMENT DATE: 01/08/25

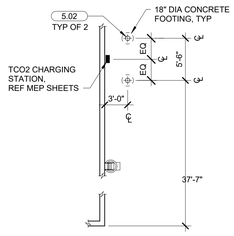
GABRIEL JOHN MASSA — LICENSED ARCHITECT — 9941 — NEPTUNE, N.J.

02/12/2026

SCHEDULES AND ALLOWANCES

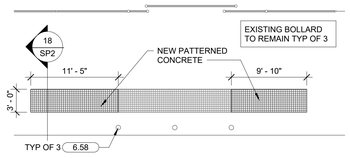
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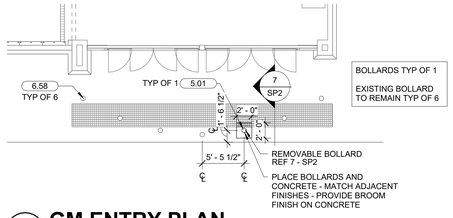
ENLARGED CHARGING STATION

5 — 1/8" = 1'-0"



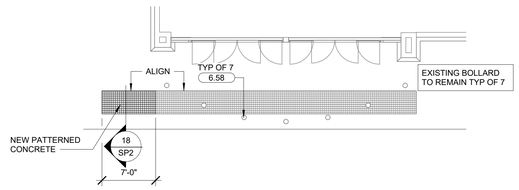
GC ENTRY PLAN

4 — 1/8" = 1'-0"



GM ENTRY PLAN

3 — 1/8" = 1'-0"



GR ENTRY PLAN

2 — 1/8" = 1'-0"

SITE SHEET NOTES

1. PREP AND PAINT ALL EXTERIOR LIGHT POLE BASES AND ALL BOLLARDS P5E, UNO
2. POWER WASH SIDEWALK AT FRONT OF BUILDING, AUTO CARE CENTER, AND ONLINE PICKUP DELIVERY
3. FILL RECESSED CONCRETE AT FENCE AND SHADE CLOTH CORE DRILLED POST BASES WITH REPAIR MORTAR SYSTEM, REF SPECS
4. CONCRETE SIDEWALKS ADJACENT TO THE STORE NOT TO EXCEED 2% CROSS SLOPE.

KEYNOTES

3.01	CONCRETE STOOP, REF STRUC
5.01	6" PIPE BOLLARD WITH GRAY PLASTIC SLEEVE (REF SPECS FOR HEIGHT OF SLEEVE)
5.02	PAINTED 6" PIPE BOLLARD
6.58	INSTALL GRAY BOLLARD COVERS AT ALL FRONT ENTRANCE BOLLARDS. ANCHOR COVERS TO BOLLARD. (REF SPECS FOR HEIGHT OF SLEEVE)
6.60	INSTALL BLUE BOLLARD COVERS A BOLLARDS ADJACENT TO TRUCK WELL DOCK. REF SPECS FOR HEIGHT AND FINISH OF SLEEVE.

EXISTING PRECAST CAP TO BE REPLACED WITH FULL COVERAGE. PRE-FINISHED METAL COPING SYSTEM REF 17 - SP2

EXISTING PRECAST CAP TO BE REPLACED WITH FULL COVERAGE, PRE-FINISHED METAL COPING SYSTEM REF 17 - SP2

ARCHITECTURAL FINISH FLOOR = 100.00'

NOTE:
FINISH FLOOR ELEVATION AT ALL EXTERIOR DOORS = 100.00' UNLESS NOTED OTHERWISE

REF SPECS FOR DETAILS AND REQUIREMENTS FOR STORMWATER POLLUTION CONTROLS AND SITE STORAGE OF MATERIALS AND EQUIPMENT - DEVIATION(S) FROM DETAILS SHOWN MUST BE SUBMITTED FOR APPROVAL IN ACCORDANCE WITH SPECS

PATCH AND REPAIR CONCRETE, STAMPED CONCRETE, PATTERNED CONCRETE AND ASPHALTIC PAVING TO MATCH ADJACENT EXISTING MATERIALS WHERE BOLLARDS ARE ADDED - MATCH EXISTING COLOR AND FINISHES - MATCH EXISTING SLOPES REF SP2 FOR FLATWORK REPLACEMENT

ADD AND REPLACE TRUNCATED DOMES TO MATCH ADJACENT EXISTING WHERE BOLLARDS ARE ADDED - MATCH EXISTING COLOR AND SIZES, REF SP2 FOR FLATWORK REPLACEMENT

REPLACE JOINT FILLER MATERIAL AT GM AND GR ENTRANCES, AREA TO BE REPLACED FROM PAVING TO STORE ENTRANCE BY WIDTH OF VESTIBULE, REF SHEET SA1 FOR BID ALLOWANCE

REPLACE DAMAGED AND/OR INSTALL OWNER FURNISHED CART CORRAL, COORDINATE SCOPE WITH STORE SETUP, REF SHEET SA1 FOR BID ALLOWANCE

(4) EXISTING RELOCATED PROPANE TANKS

20'-2"

5'-0"

SITE PLAN

1 — 1" = 20'-0"

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STIPULATION FOR REUSE

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CONTEMPORANEOUS WITH ITS ISSUE DATE. THE DRAWING IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR ANOTHER PROJECT REGARDLESS THE SIMILARITY OF THE PROJECTS. THE ARCHITECT'S AND ENGINEER'S ASSUMES NO LIABILITY FOR ANY REUSE OR ANOTHER PROJECT IS NOT AUTHORIZED UNLESS WE CONTRACT TO THE I/AR

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1	PR1	07/02/2025
2	PR2	07/25/2025
5	CCD1	12/04/2025

CHECKED BY:	MMA
DRAWN BY:	WM
PROTO CYCLE:	07/26/24
DOCUMENT DATE:	01/08/25

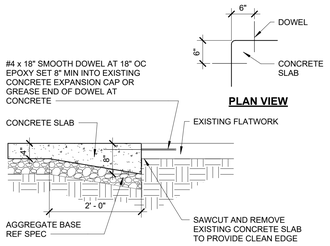
GABRIEL JOHN MASSA
NEW JERSEY LICENSED ARCHITECT
21941
NEPTUNE, N.J.

12/04/2025

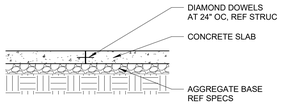
SITE PLAN

SHEET: SP1

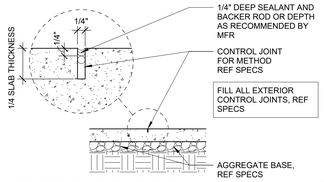
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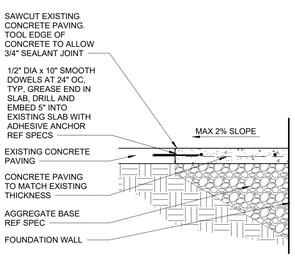
19 FLATWORK JOINT
3/4" = 1'-0"



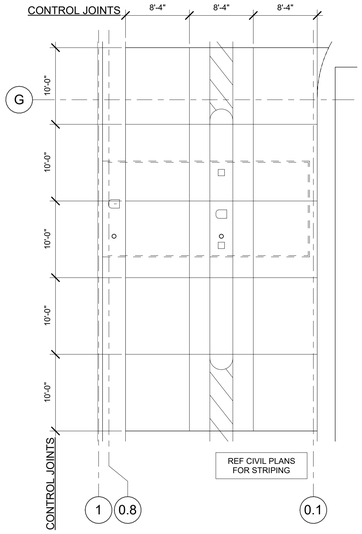
16 EXPANSION JOINT
1/2" = 1'-0"



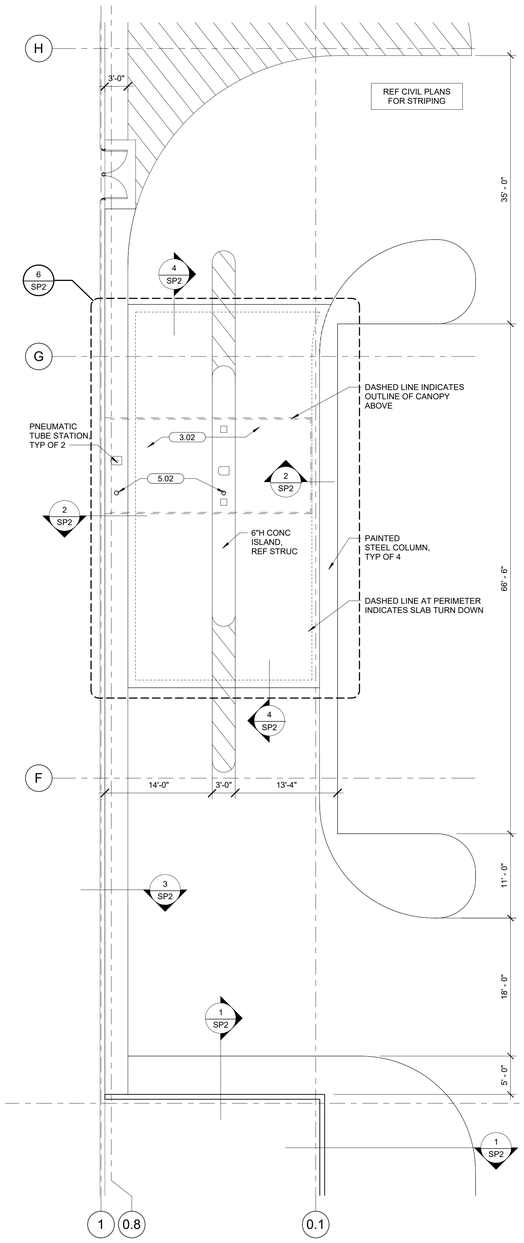
15 EXTERIOR SIDEWALK/PAVING CONTRACTION JOINT
1/2" = 1'-0"



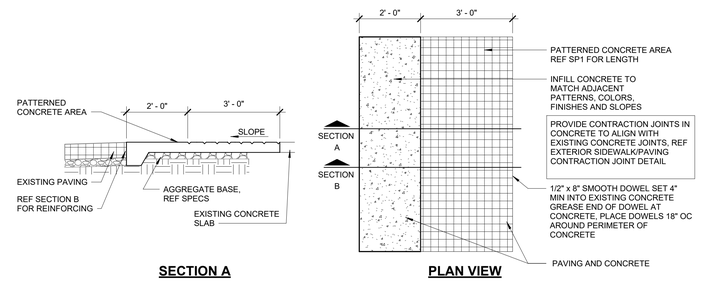
10 PAVING AT BUILDING
1/2" = 1'-0"



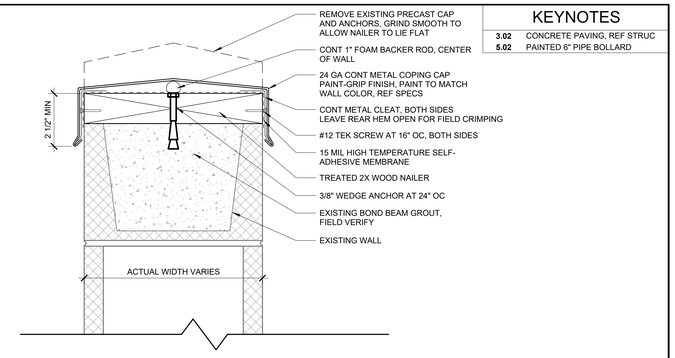
6 PHARMACY DRIVE-THRU CONTROL JOINTS PLAN
1/8" = 1'-0"



5 PHARMACY DRIVE-THRU SITE PLAN
1/8" = 1'-0"



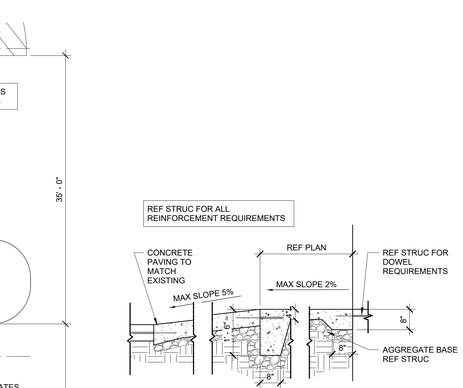
18 SIDEWALK SECTION
1/2" = 1'-0"



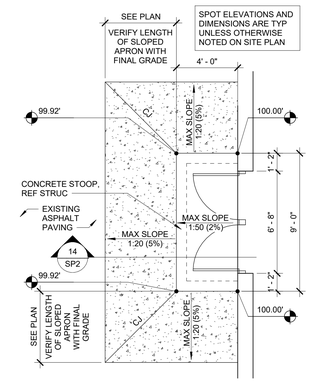
17 SCREEN WALL CAP
3" = 1'-0"

KEYNOTES

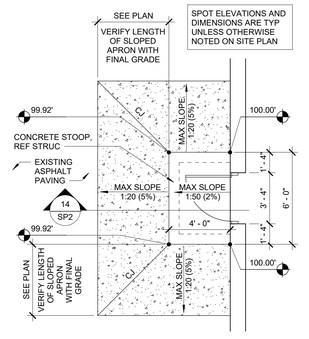
3.02	CONCRETE PAVING, REF STRUC
5.02	PAINTED 6" PIPE BOLLARD



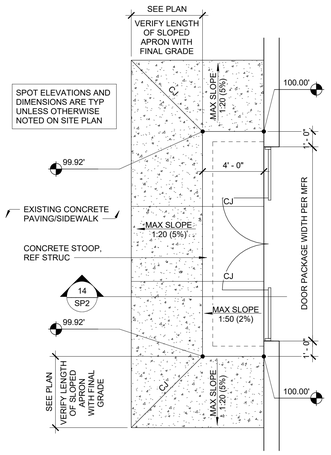
14 STOOP AND APRON
1/2" = 1'-0"



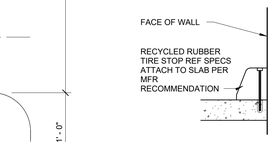
13 STOOP AND APRON DOUBLE DOOR
1/4" = 1'-0"



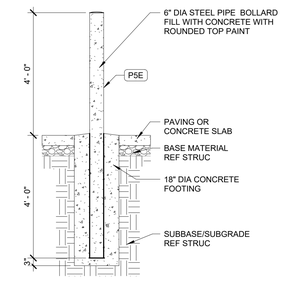
12 STOOP AND APRON SINGLE DOOR
1/4" = 1'-0"



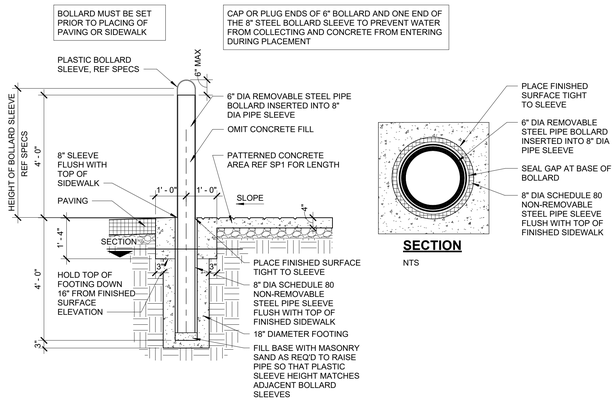
11 STOOP AND APRON
1/4" = 1'-0"



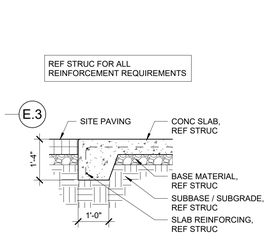
9 RECYCLED RUBBER TIRE STOP
1" = 1'-0"



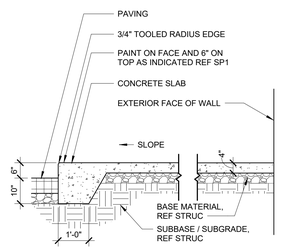
8 BOLLARD DETAIL
1/2" = 1'-0"



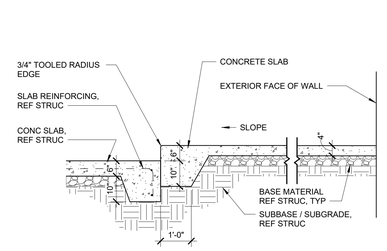
7 REMOVABLE BOLLARD
1/2" = 1'-0"



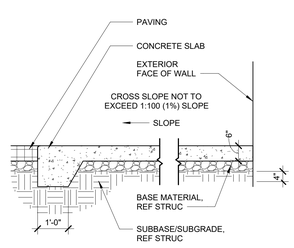
4 PAVING SECTION
1/2" = 1'-0"



3 SIDEWALK SECTION
1/2" = 1'-0"



2 SIDEWALK/PAVING SECTION
1/2" = 1'-0"



1 SIDEWALK SECTION
1/2" = 1'-0"

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STIPULATION FOR REUSE
THE DRAWING WAS PREPARED FOR USE ON A SPECIFIC SITE AT: CAMERON, NC
CONTEMPORANEOUS WITH ITS ISSUE DATE. THE USE OF THESE PLANS FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME OR THE USE OF THESE PLANS FOR ANOTHER PROJECT REQUIRES THE WRITTEN CONSENT OF MASSA MULTIMEDIA ARCHITECTS AND ENGINEERS. ANY REUSE OF THESE DRAWINGS FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED UNLESS WE CONSENT TO THE I/AR

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JOB NUMBER: 182

ISSUE BLOCK

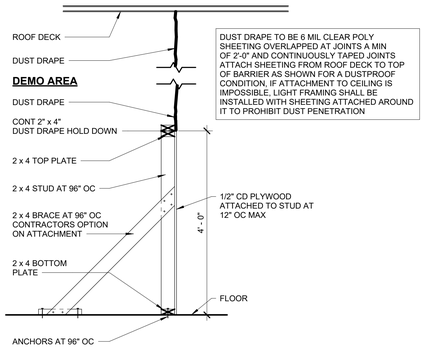
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PROTO CYCLE:	07/26/24
DOCUMENT DATE:	01/08/25

GABRIEL JOHN MASSA
REGISTERED ARCHITECT
NEPTUNE, NJ
01/08/2025

SITE DETAILS

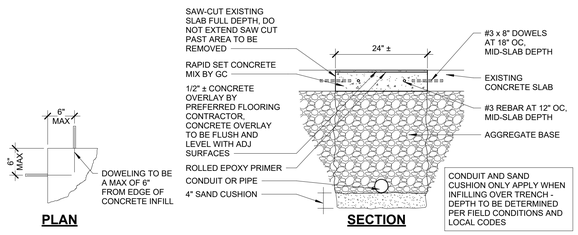
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1/7/2025 4:08:54 PM
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5 TEMPORARY BARRIER/DUST DRAPE

3/4" = 1'-0"

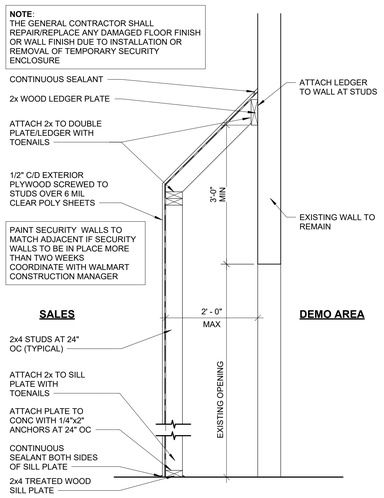


CONTRACTOR NOTES:

1. SAWCUT EDGES SHALL BE STRAIGHT AND EITHER PARALLEL EXISTING CONTROL/CONSTRUCTION JOINTS
   - SAWCUTS AT AN ANGLE TO THE EXISTING CONTROL JOINT PATTERN WILL NOT BE ALLOWED UNDER ANY CIRCUMSTANCES
2. PRIOR TO CUTTING, INSTALL 36" WIDE ROSIN PAPER EACH SIDE OF PROPOSED EDGE CUTS IN ORDER TO REDUCE SCARRING OF SLAB THAT IS TO REMAIN
3. NO OVERCUTTING SHALL BE ALLOWED AT EDGES OR CORNERS OF TRENCH AREA TO BE REMOVED
   - PORTIONS OF SLAB WHERE OVERCUTS OCCUR SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE WITH NO EXTENSION OF THE CONSTRUCTION SCHEDULE
4. PERFORM CUTTING OF EXISTING CONCRETE SLABS IN ACCORDANCE WITH THE DETAILS AND SPECS USING SAWS AND/OR CORE DRILLS
   - ALL SLAB CUTTING SHALL BE PERFORMED AT NIGHT AFTER THE BUILDING HAS CLOSED FOR BUSINESS
   - EXPLOSIVES WILL NOT BE ALLOWED AT ANY TIME
   - REF SPECS FOR JACK HAMMER DIRECTION
5. USE REMOVAL METHODS THAT WILL NOT CRACK, UNDERMINE, OR STRUCTURALLY DISTURB ADJACENT SLABS OR PARTITIONS

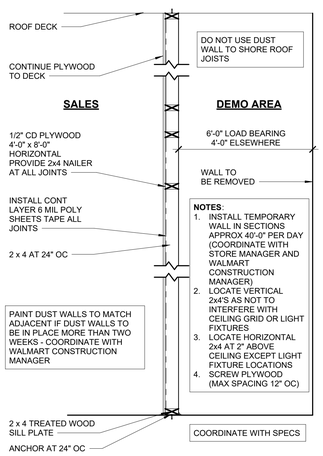
4 SLAB TRENCHING DETAIL

3/4" = 1'-0"



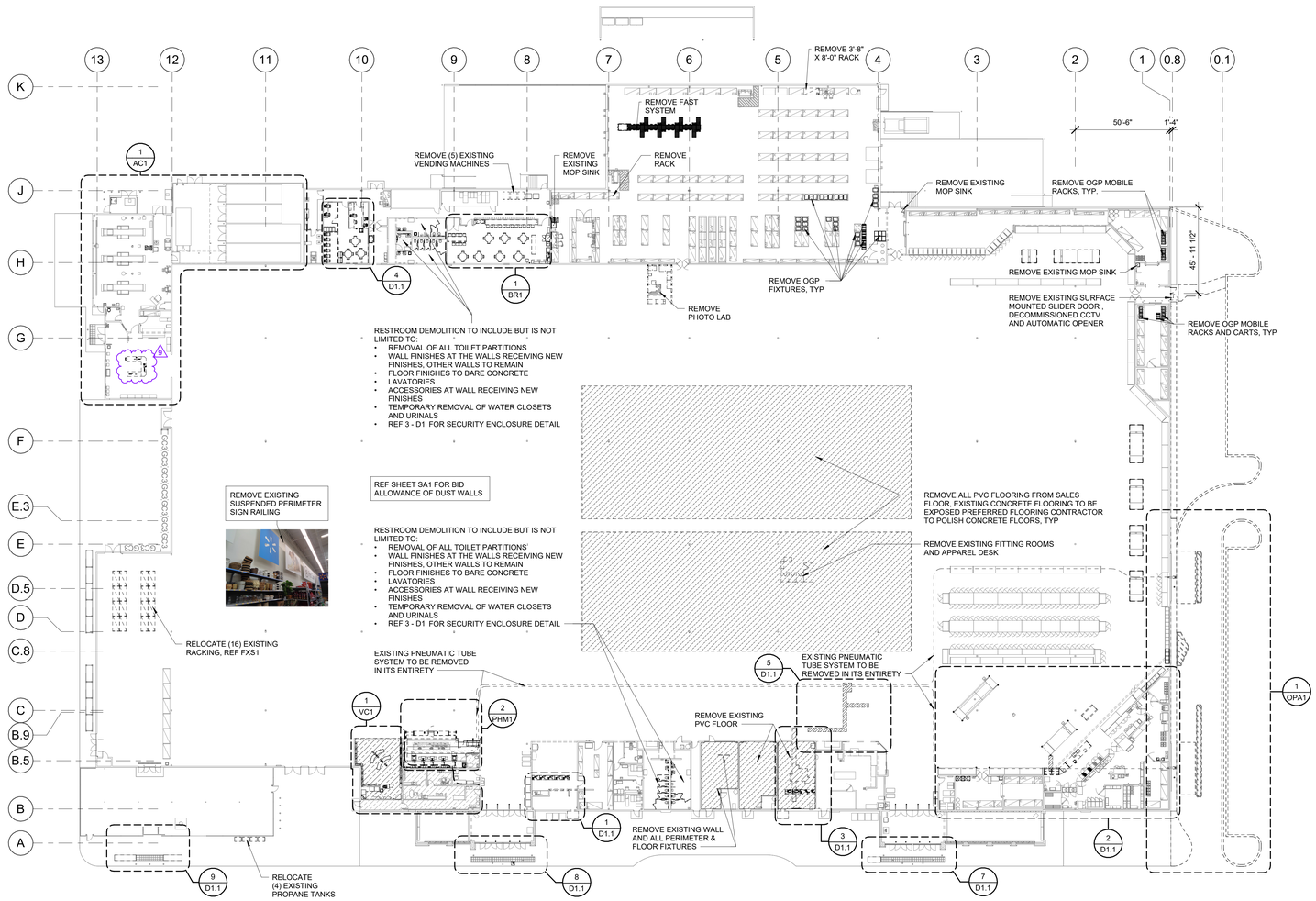
3 SECURITY ENCLOSURE

3/4" = 1'-0"



2 DUST WALL SECTION

3/4" = 1'-0"



1 DEMOLITION PLAN

1" = 30'-0"

SHEET NOTES

1. DEMOLITION INCLUDES BUT IS NOT LIMITED TO ITEMS SHOWN DASHED, REF DEMOLITION REQUIREMENT NOTE ON N1 SHEET
2. REMOVE ALL DOORS SHOWN DASHED, REF ENLARGED PLANS AND DOOR SCHEDULE FOR DOOR AND FRAME REPLACEMENT

DEMOLITION LEGEND

- EXISTING TO REMAIN
- DEMOLISH/REMOVE
- AREA TO BE DEMOLISHED
- RELOCATE

Gabriel J. Massa, RA, AIA, NCARB, LEED AP
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1	PR1	07/02/2025
3	PR3	08/12/2025
5	CCD1	12/04/2025
8	CCD3	02/12/2026
9	CCD4	03/25/2026

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DANIEL JOHN MASSA — NOTARY PUBLIC — STATE OF NEW JERSEY — NEPTUNE, NJ

3/25/2026

DEMOLITION PLAN

SHEET: D1

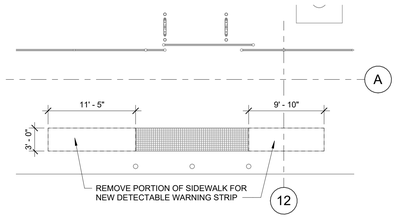
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SHEET NOTES

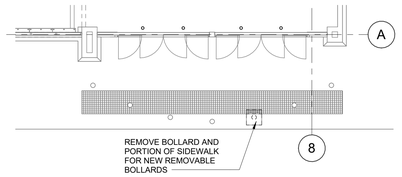
1. DEMOLITION INCLUDES BUT IS NOT LIMITED TO ITEMS SHOWN DASHED, REF DEMOLITION REQUIREMENT NOTE ON N1 SHEET
2. REMOVE ALL DOORS SHOWN DASHED, REF ENLARGED PLANS AND DOOR SCHEDULE FOR DOOR AND FRAME REPLACEMENT

DEMOLITION LEGEND

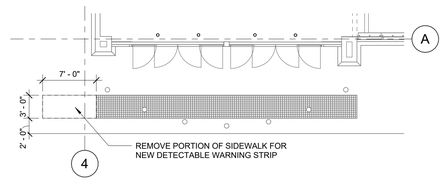
- EXISTING TO REMAIN
- DEMOLISH/REMOVE
- AREA TO BE DEMOLISHED
- RELOCATE



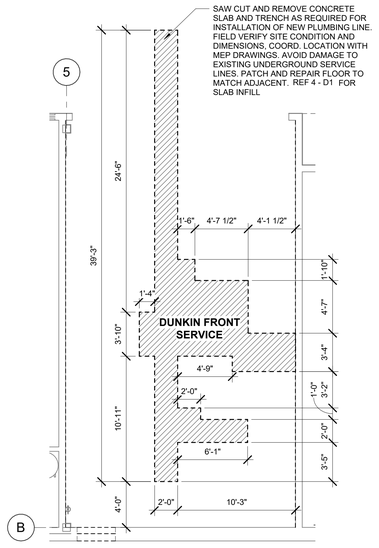
9 GC ENTRY DEMO PLAN
1/8" = 1'-0"



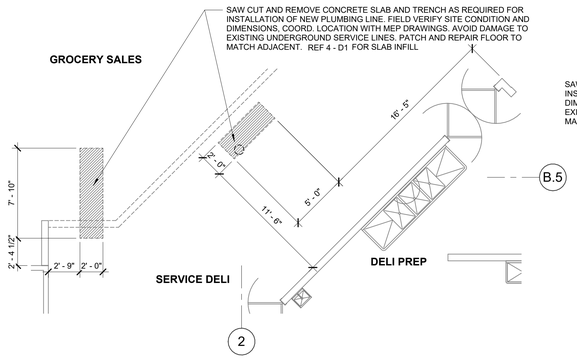
8 GM ENTRY DEMO PLAN
1/8" = 1'-0"



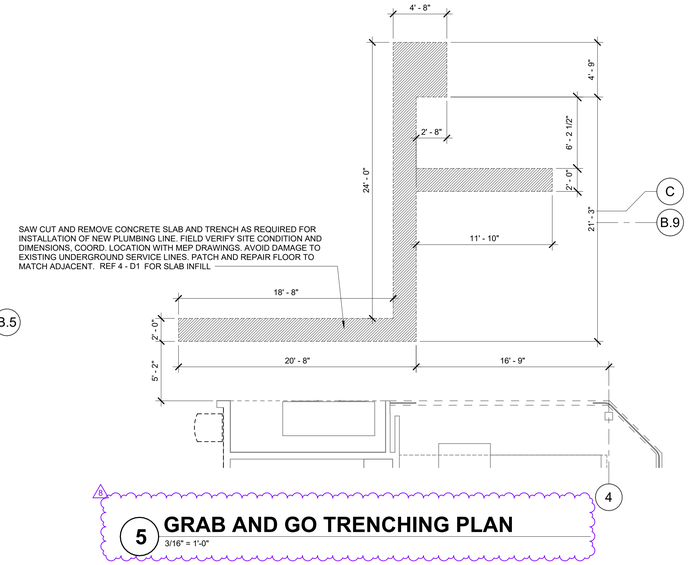
7 GR ENTRY DEMO PLAN
1/8" = 1'-0"



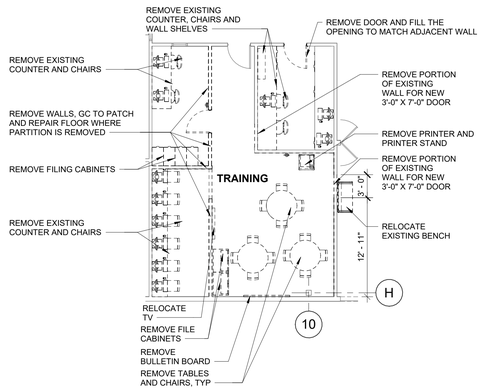
10 DUNKIN TENANT TRENCHING PLAN
3/16" = 1'-0"



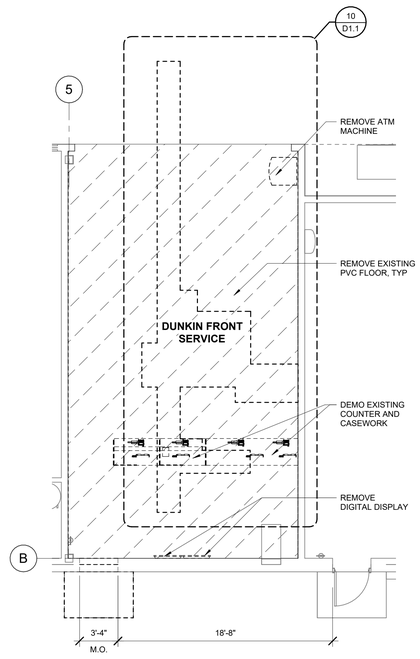
6 SERVICE DELI TRENCHING PLAN
3/16" = 1'-0"



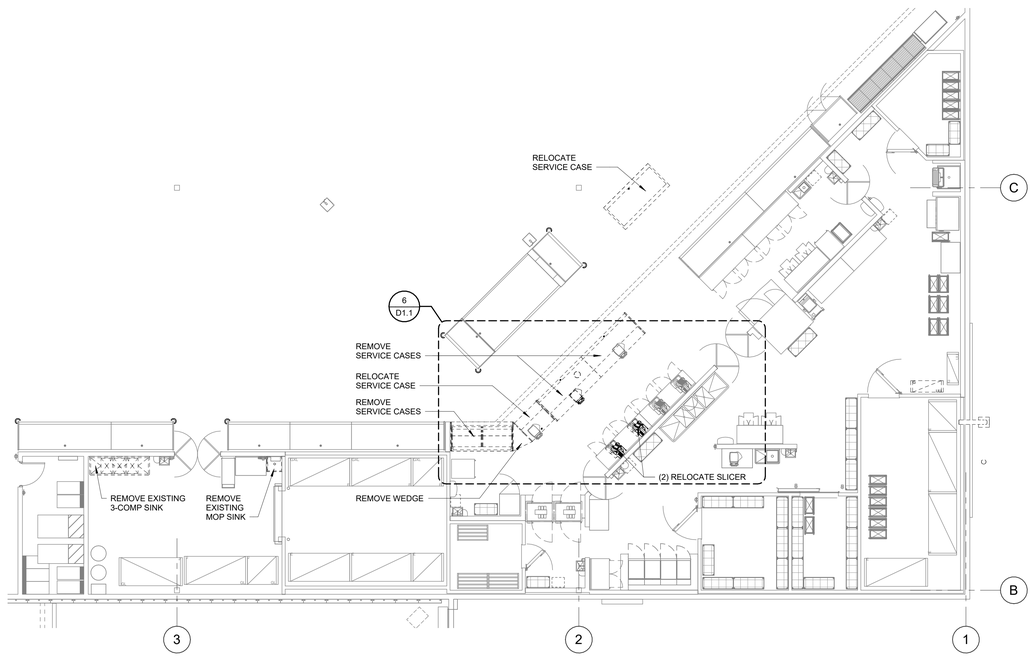
5 GRAB AND GO TRENCHING PLAN
3/16" = 1'-0"



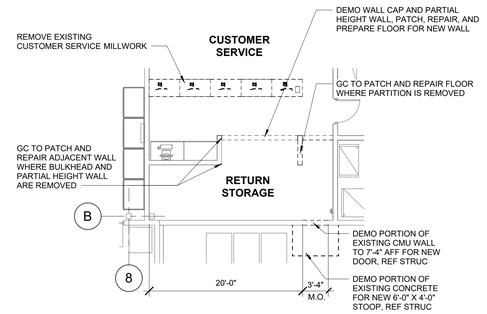
4 REAR OFFICE DEMOLITION PLAN
1/8" = 1'-0"



3 DUNKIN TENANT DEMOLITION PLAN
3/16" = 1'-0"



2 FRONT GROCERY DEMOLITION PLAN
1/8" = 1'-0"



1 CUSTOMER SERVICE DEMO ENLARGED PLAN
1/8" = 1'-0"

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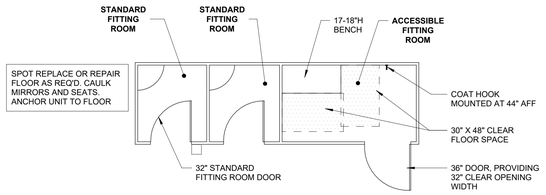
GABRIEL JOHN MASSA NEPTUNE, NJ 24GE04621400 PROFESSIONAL ENGINEER

02/12/2026

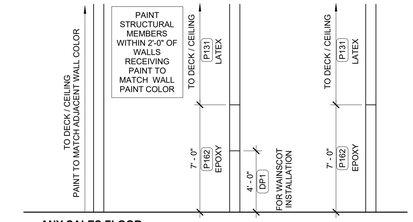
ENLARGED DEMO PLAN

SHEET:
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3 FITTING ROOM PLAN
1/4" = 1'-0"

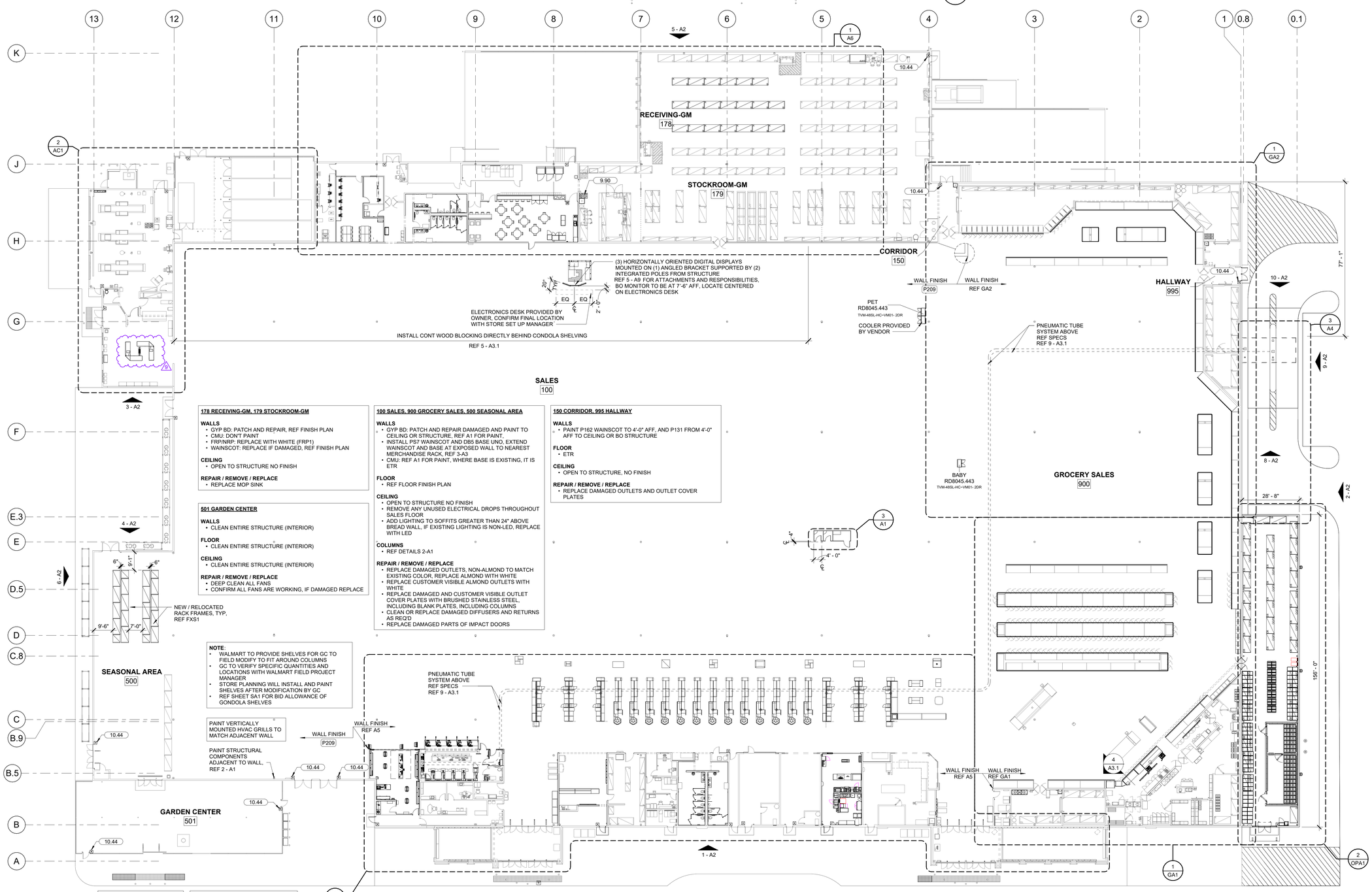


ANY SALES FLOOR COLUMN WHICH FALLS WITHIN 2'-0" OF A PERIMETER WALL

NON PERIMETER SALES FLOOR COLUMNS

NON PERIMETER SALES FLOOR ROUND COLUMNS

2 COLUMN COLORS
1/4" = 1'-0"



178 RECEIVING-GM, 179 STOCKROOM-GM

WALLS
- GYP BD: PATCH AND REPAIR, REF FINISH PLAN
- CMU: DONT PAINT
- FRP/NRP: REPLACE WITH WHITE (FRP1)
- WAINSCOT: REPLACE IF DAMAGED, REF FINISH PLAN

CEILING
- OPEN TO STRUCTURE NO FINISH

REPAIR / REMOVE / REPLACE
- REPLACE MOP SINK

501 GARDEN CENTER

WALLS
- CLEAN ENTIRE STRUCTURE (INTERIOR)

FLOOR
- CLEAN ENTIRE STRUCTURE (INTERIOR)

CEILING
- CLEAN ENTIRE STRUCTURE (INTERIOR)

REPAIR / REMOVE / REPLACE
- DEEP CLEAN ALL FANS
- CONFIRM ALL FANS ARE WORKING, IF DAMAGED REPLACE

NOTE:
- WALMART TO PROVIDE SHELVES FOR GC TO FIELD MODIFY TO FIT AROUND COLUMNS
- GC TO VERIFY SPECIFIC QUANTITIES AND LOCATIONS WITH WALMART FIELD PROJECT MANAGER
- STORE PLANNING WILL INSTALL AND PAINT SHELVES AFTER MODIFICATION BY GC
- REF SHEET SA1 FOR BID ALLOWANCE OF GONDOLA SHELVES

100 SALES, 900 GROCERY SALES, 500 SEASONAL AREA

WALLS
- GYP BD: PATCH AND REPAIR DAMAGED AND PAINT TO CEILING OR STRUCTURE, REF A1 FOR PAINT.
- INSTALL PS7 WAINSCOT AND DB5 BASE UNO, EXTEND WAINSCOT AND BASE AT EXPOSED WALL TO NEAREST MERCHANDISE RACK, REF 3-A3
- CMU: REF A1 FOR PAINT; WHERE BASE IS EXISTING, IT IS ETR

FLOOR
- REF FLOOR FINISH PLAN

CEILING
- OPEN TO STRUCTURE NO FINISH
- REMOVE ANY UNUSED ELECTRICAL DROPS THROUGHOUT SALES FLOOR
- ADD LIGHTING TO SOFFITS GREATER THAN 24" ABOVE BREAD WALL, IF EXISTING LIGHTING IS NON-LED, REPLACE WITH LED

COLUMNS
- REF DETAILS 2-A1

REPAIR / REMOVE / REPLACE
- REPLACE DAMAGED OUTLETS, NON-ALMOND TO MATCH EXISTING COLOR, REPLACE ALMOND WITH WHITE
- REPLACE CUSTOMER VISIBLE ALMOND OUTLETS WITH WHITE
- REPLACE DAMAGED AND CUSTOMER VISIBLE OUTLET COVER PLATES WITH BRUSHED STAINLESS STEEL, INCLUDING BLANK PLATES, INCLUDING COLUMNS
- CLEAN OR REPLACE DAMAGED DIFFUSERS AND RETURNS AS REQ'D
- REPLACE DAMAGED PARTS OF IMPACT DOORS

150 CORRIDOR, 995 HALLWAY

WALLS
- PAINT P162 WAINSCOT TO 4'-0" AFF, AND P131 FROM 4'-0" AFF TO CEILING OR BO STRUCTURE

FLOOR
- ETR

CEILING
- OPEN TO STRUCTURE, NO FINISH

REPAIR / REMOVE / REPLACE
- REPLACE DAMAGED OUTLETS AND OUTLET COVER PLATES

1 FLOOR PLAN
1" = 20'-0"

SHEET NOTES

1. ENSURE ALL EXISTING WALL STANDARDS AND HALF GONDOLAS TO REMAIN ARE SECURE TO WALL.
2. RELOCATE AND/OR INSTALL PREFABRICATED CASH WRAP(S) FOR CHECKOUTS AND SERVICE COUNTERS
   - CAULK BASE TO FLOOR WHEN LOCATION IS FINALIZED
3. RELOCATION AND SETUP OF GONDOLAS AND/OR RACKING AS INDICATED ON FXS SHEETS WILL BE PERFORMED BY OTHERS
   - ANCHORING OF UPRIGHTS TO BE PERFORMED BY GC
4. IF PRICE READERS, FIRE EXTINGUISHERS, PAPER TOWEL DISPENSERS, ETC ARE STRAPPED TO COLUMNS ON SALES FLOOR, REMOVE AND REINSTALL USING SCREWS. STRAPPED ATTACHMENT TO REMAIN AT BRACE FRAMED COLUMNS. REF SHEET SA1 FOR BID ALLOWANCE

KEYNOTES

9.90	FLOOR STRIPES. REF N1 FOR STRIPING CONDITIONS
10.44	PROVIDE TACTILE "EXIT" SIGN. REF N1.

COLOR LEGEND

DP1	ALUMINUM DIAMOND (TREAD) PLATE
P36E	BLACK
P131	WHITE FLOUR SW#7102
P162	PEPPERCORN SW#7674
P209	PASSIVE GRAY SW#7064

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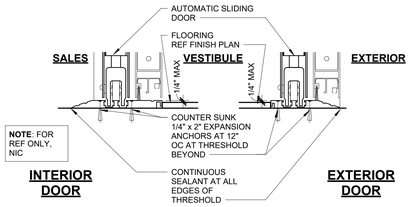


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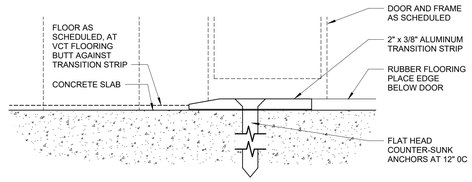
FLOOR PLAN

SHEET: A1

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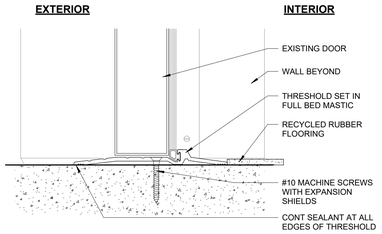


4 THRESHOLD
3" = 1'-0"



TRANSITION STRIP AT RUBBER FLOORING

3 TRANSITION STRIP
12" = 1'-0"



2 THRESHOLD
3" = 1'-0"

LEGEND

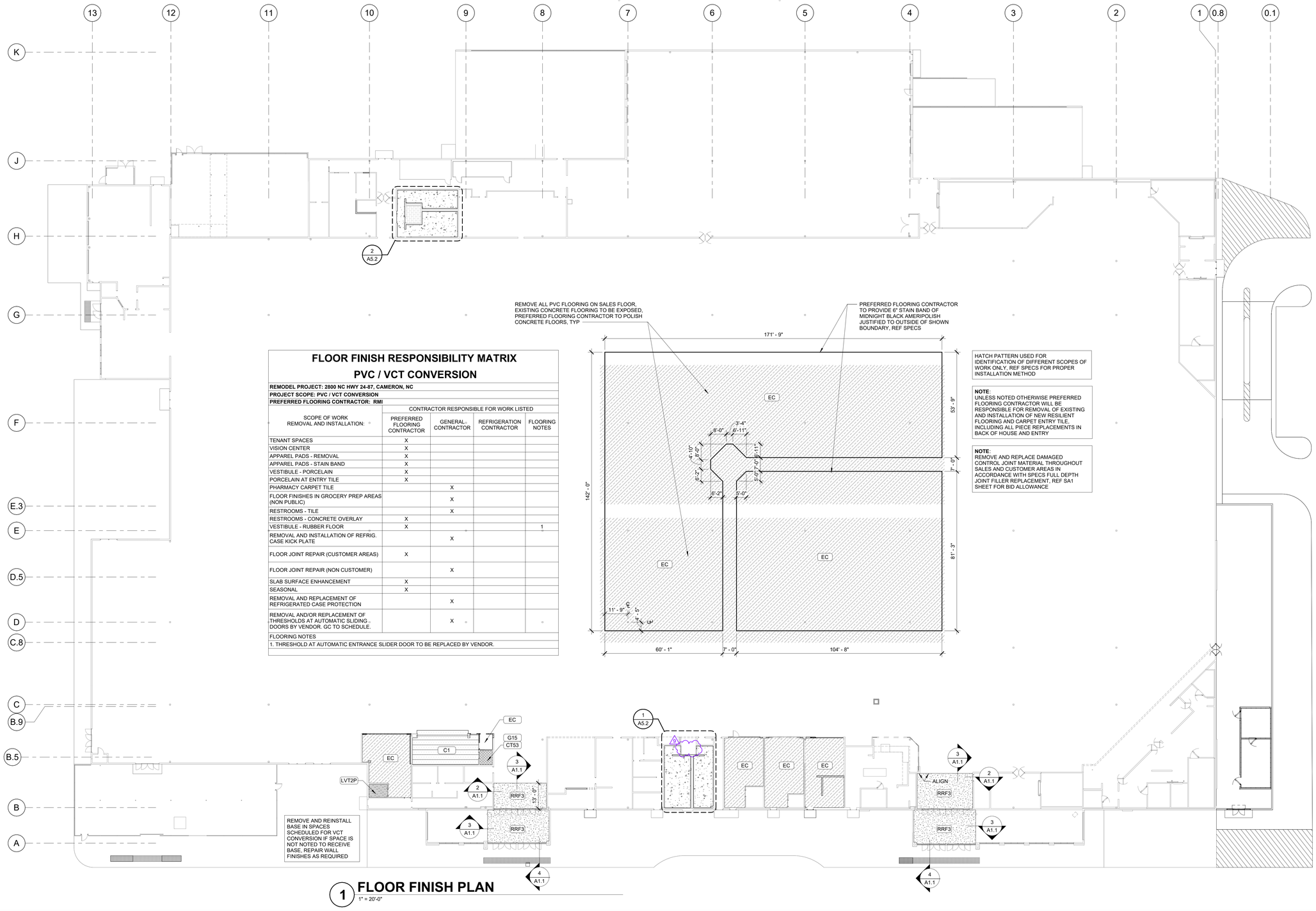
- RUBBER FLOORING
- CONCRETE OVERLAY
- REMOVE EXISTING FLOORING - POLISH EC - REF SPECS
- CARPET
- TILE
- ICC
- LVT

SHEET NOTES

1. REF STRUC DRAWINGS FOR EXPOSED AND INTEGRALLY COLORED CONCRETE FLOORS
2. REPAIR BOLT HOLES AND SPALLS RESULTING FROM MERCHANDISE FIXTURE AND OR STORAGE RACK RELOCATION OR REMOVAL
   A. FILL ALL BOLT HOLES AND SPALLS RESULTING FROM FIXTURE AND OR STORAGE RACK RELOCATION OR REMOVAL IN NON CUSTOMER ACCESSIBLE AREAS WITH NON SHRINK GROUT
   B. REF SHEET SA1 FOR BID ALLOWANCE OF BOLT HOLES /SPALLS TO REPAIR
3. GC TO REMOVE AND REPLACE DAMAGED TRANSITION STRIPS TO MATCH EXISTING IN AREAS OF GC RESPONSIBILITY

COLOR LEGEND

C1	CUSHION BACK TILE CARPET
CT53	CERAMIC FLOOR TILE (DARK GRAY)
EC	EXPOSED CONCRETE
G15	BLACK
LVT2P	PLANK FLOORING
RRF3	RECYCLED RUBBER FLOORING (GRAY)



FLOOR FINISH RESPONSIBILITY MATRIX
PVC / VCT CONVERSION

REMODEL PROJECT: 2800 NC HWY 24-87, CAMERON, NC
PROJECT SCOPE: PVC / VCT CONVERSION
PREFERRED FLOORING CONTRACTOR: RMI

SCOPE OF WORK REMOVAL AND INSTALLATION:	CONTRACTOR RESPONSIBLE FOR WORK LISTED			
	PREFERRED FLOORING CONTRACTOR	GENERAL CONTRACTOR	REFRIGERATION CONTRACTOR	FLOORING NOTES
TENANT SPACES	X			
VISION CENTER	X			
APPAREL PADS - REMOVAL	X			
APPAREL PADS - STAIN BAND	X			
VESTIBULE - PORCELAIN	X			
PORCELAIN AT ENTRY TILE	X			
PHARMACY CARPET TILE		X		
FLOOR FINISHES IN GROCERY PREP AREAS (NON PUBLIC)		X		
RESTROOMS - TILE		X		
RESTROOMS - CONCRETE OVERLAY	X			
VESTIBULE - RUBBER FLOOR	X			1
REMOVAL AND INSTALLATION OF REFRIG. CASE KICK PLATE		X		
FLOOR JOINT REPAIR (CUSTOMER AREAS)	X			
FLOOR JOINT REPAIR (NON CUSTOMER)		X		
SLAB SURFACE ENHANCEMENT	X			
SEASONAL	X			
REMOVAL AND REPLACEMENT OF REFRIGERATED CASE PROTECTION		X		
REMOVAL AND/OR REPLACEMENT OF THRESHOLDS AT AUTOMATIC SLIDING DOORS BY VENDOR. GC TO SCHEDULE.		X		

FLOORING NOTES
1. THRESHOLD AT AUTOMATIC ENTRANCE SLIDER DOOR TO BE REPLACED BY VENDOR.

1 FLOOR FINISH PLAN
1" = 20'-0"

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4	ADD2	09/10/2025
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9	CCD4	03/25/2026

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DRAWN BY:	WM
PROTO CYCLE:	07/26/24
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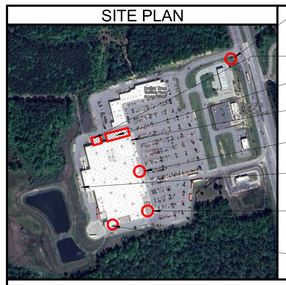
3/25/2026

FLOOR FINISH PLAN

SHEET: A1.1

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SITE PLAN



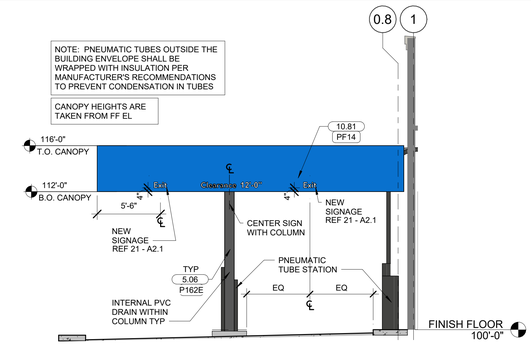
- EXISTING MONUMENT SIGN LOCATION ON SITE REF 16 - A2.1
- PROPOSED NEW PHARMACY DRIVE-THRU
- PROPOSED NEW PICKUP EXPANSION
- PICKUP
- MAIN ID SIGNAGE
- EXISTING BALE/PALLET STORAGE. PAINT P135E
- GARDEN CENTER
- AUTO CARE

MONUMENT SIGNAGE: REFACE; REF 16 - A2.1

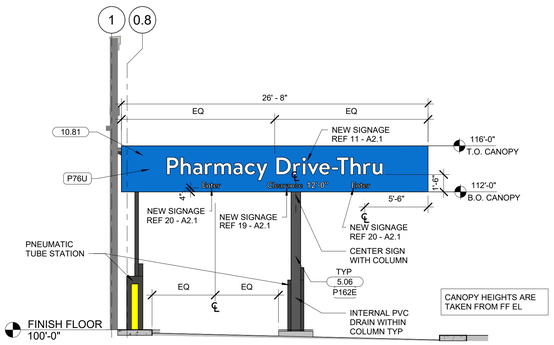
DISCLOSURES

PAINT RESTRICTIONS:
- THE NUMBER OF COLORS USED SHALL BE LIMITED TO NO MORE THAN THREE (3) DISCERNABLE COLORS OR RANGES OF COMPLEMENTARY HUES. THE DOMINATE COLOR SHALL CONSTITUTE A MINIMUM OF 60 PERCENT (60%) OF THE FAÇADE, EXCLUDING WINDOWS, DOORS, AND THE LIKE.
- FAÇADE COLORS SHALL BE OF LOW REFLECTANCE EARTH TONE, MUTED, SUBTLE, AND/OR NEUTRAL COLORS. BUILDING TRIM MAY FEATURE BRIGHTER COLORS, BUT NEON TUBING IS NOT ALLOWED AS AN ACCENT MATERIAL. THE USE OF HIGH INTENSITY, METALLIC, FLUORESCENT, OR NEON COLORS SHALL BE PROHIBITED.
- VARIATIONS IN COLOR SCHEMES ARE ENCOURAGED IN ORDER TO ARTICULATE ENTRYWAYS, ARCHITECTURAL FEATURES, AND PUBLIC AMENITIES SO AS TO GIVE GREATER RECOGNITION TO THESE.

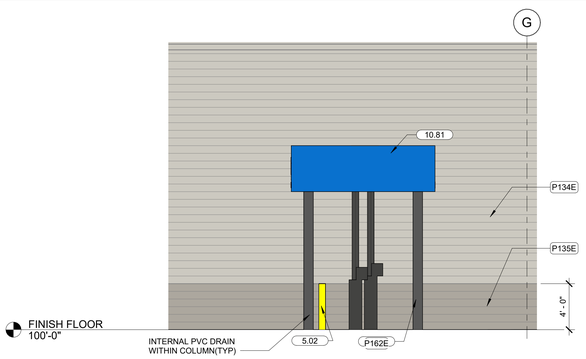
ALLOWED SIGNAGE SF: 725.17
EXISTING SIGNAGE SF: 725.17
PROPOSED SIGNAGE SF: 481.87
VARIANCE / PROCESS:
- ILLUMINATED SIGNS SHALL BE LIMITED TO THOSE LIGHTED INTERNALLY WITH GLASS OR PLASTIC FACES BEARING THE ADVERTISEMENT; PROVIDED, HOWEVER, THAT EXPOSED NEON TUBING AND EXPOSED INCANDESCENT OR OTHER BULBS NOT EXCEEDING 15 WATTS EACH SHALL BE PERMITTED.
- SUCH SIGNS SHALL BE PERMITTED ONLY AS PART OF AN OTHERWISE PERMITTED SIGN OR IN CONJUNCTION WITH A PERMITTED REPLACEMENT OF AN EXISTING SIGN, PROVIDED THAT THE ILLUMINATED PORTION SHALL BE AT LEAST 15 PERCENT (15%) OF THE TOTAL SQUARE FOOTAGE AREA OF THE SIGN AND SHALL NOT EXCEED 35 PERCENT (35%) OF THE TOTAL SQUARE FOOTAGE AREA OF THE SIGN.
- SIGNS CAN NOT GO ABOVE PARAPET.
- EXPANSION COULD BE DONE ADMINISTRATIVELY FOR AN EXTERNAL EXPANSION PER PLANNING ONLY. COUNTY REVIEW AND NOT REVIEWED BY STATE NO DOT REQUIRED.
- IF THE SIGNAGE EXCEEDS 50 FOOTAGE A VARIANCE CAN BE APPLIED FOR WITH THE BOARD OF ADJUSTMENT SUBMIT 30 DAYS BEFORE.
- MEETINGS ARE IN PERSON AND USUALLY WILL TAKE APPROXIMATELY TWO MONTHS.
- ENCLOSURES FOR RTU UNITS WILL BE REQUIRED IF THE PARAPET IS NOT HIGH ENOUGH OR UNITS CAN BE SEEN FROM THE PARKING LOT.



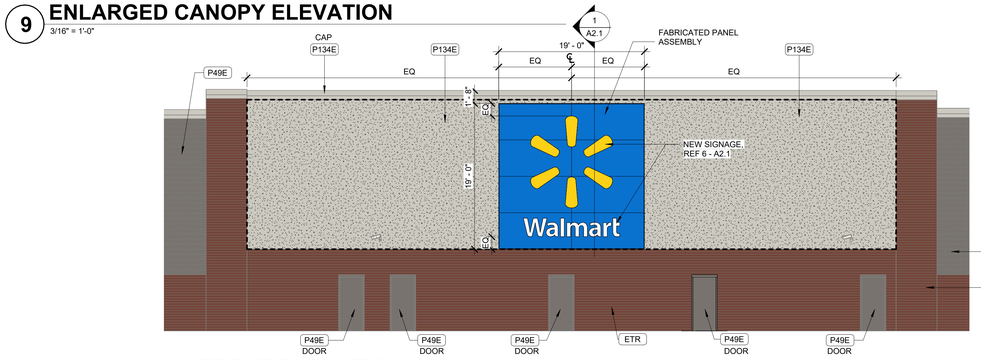
10 ENLARGED CANOPY ELEVATION
3/16" = 1'-0"



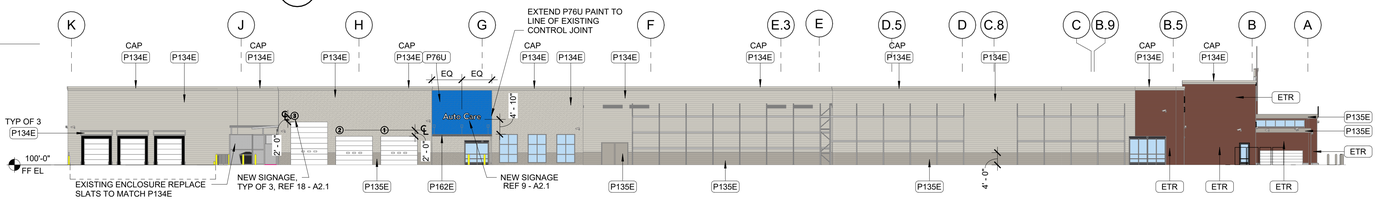
8 ENLARGED CANOPY ELEVATION
3/16" = 1'-0"



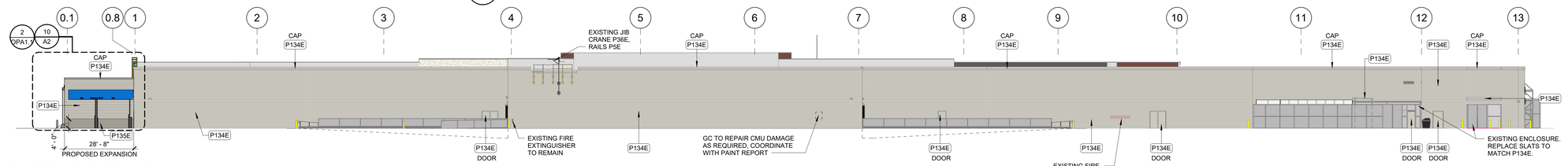
9 ENLARGED CANOPY ELEVATION
3/16" = 1'-0"



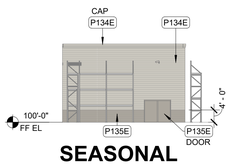
7 FRONT ELEVATION
1/8" = 1'-0"



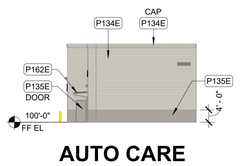
6 LEFT ELEVATION
1" = 20'-0"



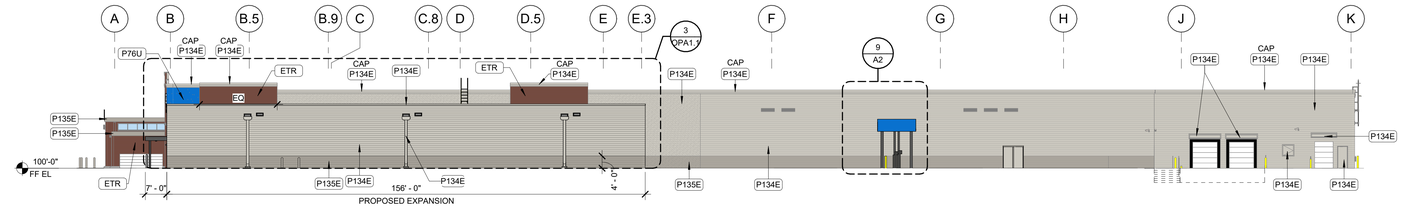
5 REAR ELEVATION
1" = 20'-0"



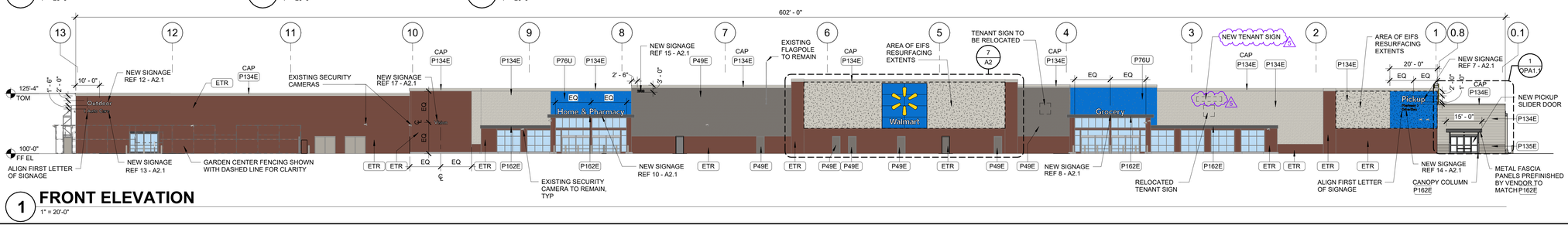
4 SEASONAL SHOP ELEVATION
1" = 20'-0"



3 AUTO CARE SIDE ELEVATION
1" = 20'-0"



2 RIGHT ELEVATION
1" = 20'-0"



1 FRONT ELEVATION
1" = 20'-0"

DEMOLITION NOTES

1. REMOVAL OF BUILDING MOUNTED ITEMS, SHOWN OR NOTED TO BE DEMOLISHED OR AS REQUIRED BY SCOPE OF WORK, SHALL OCCUR PRIOR TO PAINTING BUILDING
   a. COORDINATE DEMOLITION WORK SO EXTERIOR PAINTING WILL OCCUR PRIOR TO INSTALLATION OF BUILDING MOUNTED ITEMS

HATCH LEGEND

- EIFS AREA TO BE RESURFACED (REF SPECS)
- EIFS AREA EXISTING TO REMAIN

KEYNOTES

5.02	PAINTED 6" PIPE BOLLARD
5.06	STEEL COLUMN
10.81	CORNER GUARD TRIM "G", FULL HEIGHT UNLESS NOTED OTHERWISE

SHEET NOTES

1. PATCH AND REPAIR EXTERIOR WALL SURFACES, DAMAGED OR EXPOSED DUE TO REMOVAL OF BUILDING MOUNTED ITEMS, TO MATCH ADJACENT AS REQ'D
2. REF DETAILS ON SHEET A2.1 FOR SUBSTRATE AND FINISH REQUIREMENTS AT LOCATIONS OF BUILDING MOUNTED SIGNS
3. RESURFACE EXISTING EIFS WHERE SHOWN (HATCHED AREA)
4. AT WALL(S) WITH LIT ID/LOGO SIGN(S) MASK AND PAINT AROUND SIGN CHARACTERS
5. PRIOR TO PAINTING WALL AT LOCATION(S) OF LIT ID/LOGO SIGN(S), COORDINATE SCOPE OF WORK WITH WALMART CM
6. IF PAINTING ADJACENT WALLS PAINT HOLLOW METAL STEEL DOORS, FRAMES, AND DOWNSPOUTS, EXPOSED METAL FLASHING, HANDRAILS, AND EXPOSED MISCELLANEOUS STEEL TO MATCH PRIMARY ADJACENT BUILDING COLOR UNO
7. PAINT ANY ROOFTOP GAS PIPING P5E
   a. WHERE EXTERIOR WALL IS BEING PAINTED, GAS PIPE ALONG SIDE WALL TO GRADE SHALL MATCH ADJACENT BUILDING
   b. DO NOT PAINT METER OR VALVES
8. IF PAINTING ADJACENT WALLS PAINT CANOPY STRUCTURAL STEEL AND FLASHING TO MATCH ADJACENT WALL, UNO
9. WHERE CANOPIES ARE VISIBLE TO AND ACCESSED BY CUSTOMERS, PAINT UNDERSIDE OF CANOPY DECK P33E DO NOT PAINT CANOPY DECK IF NOT PREVIOUSLY PAINTED
10. INSTALL GRAY BOLLARD SLEEVE AT ALL ENTRANCE BOLLARDS. PAINT ALL SAFETY BOLLARDS P5E PAINT ALL OTHER PAINTED / DECORATIVE BOLLARDS P135E.
11. PAINT SECURITY WALL PACK HOUSINGS TO MATCH ADJACENT WALL, REMOVE PAINT OVERSPRAY FROM LENSES
12. DO NOT PAINT LED WALL PACK HOUSINGS
13. PAINT GARDEN CENTER FENCE STEEL DOORS AND FRAMES P36E
14. PAINT STEEL DOORS AND FRAMES TO MATCH ADJACENT BUILDING WALL, IF THERE ARE TWO COLORS AT ADJACENT WALL, USE BOTTOM COLOR FOR ENTIRE DOOR AND FRAME
15. DO NOT PAINT QUIK-BRIK, STONE VENEER, FACE BRICK, UNPAINTED TILT-WALL OR PRECAST PANELS
16. AT MASONRY LOCATIONS WHERE SIGNS ARE BEING REPLACED, REMOVE AND PAINT AREA BEHIND SIGN TO MATCH EXISTING COLOR, REF SPECS
17. PAINT JIB CRANE P36E ON JIB BOOM, P5E ON HANDRAILS
18. PAINT SPRINKLER VALVES P21E
    a. DO NOT PAINT OVER SIGHT GLASS OR FIRE ALARM BELL
19. PAINT ALL REMOTE BUILDINGS, FENCES, OR STRUCTURES NOT SHOWN ON A2 THAT WERE PREVIOUSLY PAINTED, TO MATCH ADJACENT BUILDING.

COLOR LEGEND

ETR	EXISTING TO REMAIN
P5E	SAFETY YELLOW
P21E	SAFETY RED
P33E	CREAM
P36E	BLACK
P49E	DARK GRAY
P76U	WALMART BLUE SW#076
P134E	LIGHT GRAY
P135E	MEDIUM GRAY
P162E	BLACK GRAY
PF14	WALMART BLUE

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CONSULTANTS

Walmart
CAMERON, NC
2800 NC HWY 24-87
STORE NO: 06958.1000
JOB NUMBER: 194-23-047 PROTO: 182

ISSUE BLOCK

1	PR1	07/02/2025
5	CCD1	12/04/2025

CHECKED BY:	MMA
DRAWN BY:	SMH
PROTO CYCLE:	07/26/24
DOCUMENT DATE:	01/08/25

GABRIEL JOHN MASSA — 24941 — NEPTUNE, NJ — REGISTERED ARCHITECT

12/04/2025

EXTERIOR ELEVATIONS

SHEET: A2

12/4/2025 2:35:00 PM
C:\Users\sarah.hall\Documents\06958_Cameron_NC_182_L_Arch_v24_sarah.hall.rvt

EXISTING SIGNAGE SCHEDULE

SIGNAGE LOCATION	QTY	COLOR	SIZE	INDIVIDUAL AREA		TOTAL AREA	
FRONT SIGNAGE							
WALMART WITH SPARK	1	WHITE/ YELLOW	5'-6"	298.00	SF	298.00	SF
< AUTO CENTER	1	WHITE	2'-0"	34.55	SF	34.55	SF
OUTDOOR LIVING	1	WHITE	2'-6"	77.17	SF	77.17	SF
HOME & PHARMACY	1	WHITE	2'-6"	97.66	SF	97.66	SF
GROCERY	1	WHITE	2'-6"	41.05	SF	41.05	SF
ADDRESS (2800)	1	WHITE	1'-0"	N/A	SF	N/A	SF
PICKUP WITH SPARK	1	WHITE/ YELLOW	2'-6"	65.43	SF	65.43	SF
TOTAL FRONT SIGNAGE						613.86	SF
AUTO CENTER SIGNAGE							
AUTO CENTER	1	WHITE	2'-0"	31.51	SF	31.51	SF
PHARMACY DRIVE-THRU SIGNAGE							
PHARMACY DRIVE-THRU	2	WHITE	1'-6"	39.90	SF	79.80	SF
TOTAL BUILDING SIGNAGE						725.17	SF

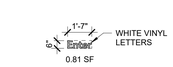
NEW SIGNAGE SCHEDULE

SIGNAGE LOCATION	QTY	COLOR	LIGHTED	SIZE	INDIVIDUAL AREA		TOTAL AREA	
FRONT SIGNAGE								
SPARK WM	1	WHITE/ YELLOW	LIGHTED	12'-0"	158.41	SF	158.41	SF
AUTO CARE WITH ARROW	1	WHITE	N/A	1'-6"	16.25	SF	16.25	SF
OUTDOOR	1	WHITE	N/A	2'-0"	20.67	SF	20.67	SF
HOME & PHARMACY	1	WHITE	N/A	2'-6"	94.90	SF	94.90	SF
GROCERY	1	WHITE	N/A	2'-6"	41.05	SF	41.05	SF
ADDRESS (2800)	1	WHITE	N/A	1'-0"	N/A	SF	N/A	SF
PICKUP	1	WHITE	LIGHTED	2'-6"	32.22	SF	32.22	SF
PHARMACY DRIVE-THRU >	1	WHITE	N/A	1'-0"	19.21	SF	19.21	SF
VISION	1	WHITE	N/A	1'-6"	8.19	SF	19.21	SF
TOTAL FRONT SIGNAGE							401.92	SF
AUTO CARE SIGNAGE								
AUTO CARE	1	WHITE	N/A	2'-0"	24.75	SF	24.75	SF
AUTO NUMERAL 1	1	BLACK	N/A	2'-6"	4.91	SF	4.91	SF
AUTO NUMERAL 2	1	BLACK	N/A	2'-6"	4.91	SF	4.91	SF
AUTO NUMERAL 3	1	BLACK	N/A	2'-6"	4.91	SF	4.91	SF
TOTAL AUTO CARE SIGNAGE							39.48	SF
PHARMACY DRIVE-THRU SIGNAGE								
PHARMACY DRIVE-THRU	1	WHITE	N/A	1'-6" (VINYL)	37.71	SF	37.71	SF
CLEARANCE 13' - 0"	2	WHITE	N/A	6" (VINYL)	N/A	SF	N/A	SF
ENTER	2	WHITE	N/A	6" (VINYL)	0.81	SF	1.62	SF
EXIT	2	WHITE	N/A	6" (VINYL)	0.57	SF	1.14	SF
TOTAL PHARMACY DRIVE-THRU SIGNAGE							40.47	SF
TOTAL BUILDING SIGNAGE							481.87	SF

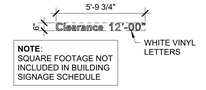
SIGNAGE GENERAL NOTES

1. SIGNAGE FURNISHED BY WALMART AND INSTALLED BY GC THROUGH OWNER ASSIGNED SIGN CONTRACTOR
2. ALL EXISTING WALMART EXTERIOR SIGNAGE IS TO REMAIN IN PLACE ON BUILDING UNTIL GC SIGN COMPANY IS ONSITE
   A. EXISTING SIGNAGE WILL THEN BE REMOVED, PATCH AND REPAIR WORK WILL BE COMPLETED AT SIGN LOCATIONS, AND SIGNAGE WILL BE INSTALLED PER PLANS
   B. A TEMPORARY BANNER WILL BE INSTALLED PRIOR TO REMOVAL OF EXISTING EXTERIOR SIGNAGE
      a. BANNER WILL REMAIN IN PLACE UNTIL ALL MODIFICATIONS AND/OR REPAIRS HAVE BEEN COMPLETED AND SIGNAGE IS INSTALLED
   C. TEMPORARY BANNER WILL BE APPROXIMATELY 125 SF, 5' x 25'
   D. EXTERIOR SIGN WORK NEEDS TO BE SCHEDULED, COORDINATED, AND COMPLETED DURING WEEK 6 OF CONSTRUCTION SCHEDULE
3. GC RESPONSIBILITIES
   A. BY END OF FIRST WEEK OF CONSTRUCTION, REVIEW EXISTING CONSTRUCTION WHERE SIGN(S) WILL BE INSTALLED
      a. IF EXISTING CONDITIONS DO NOT MATCH SIGN ATTACHMENT DETAILS SHOWN, REQUEST APPROVAL FROM CONSTRUCTION MANAGER TO SUBMIT RFI IN ACCORDANCE WITH SPECS
      b. NOTE DIFFERENCES IN CONSTRUCTION, INCLUDING DIMENSIONS, AND INCLUDE PHOTOGRAPHS FOR CLARIFICATION
   B. PROVIDE SUBSTRATE SUITABLE FOR INSTALLATION OF SIGNAGE, REF SIGN DETAILS FOR LIGHTED ID/LOGO SIGNS
   C. PROVIDE JUNCTION BOXES AND CIRCUITRY TO "Walmart" and "spark" SIGNAGE
      a. EXISTING (8) BOXES FROM "WAL★MART" SIGNAGE MAY BE REUSED
   D. PROVIDE JUNCTION BOXES AND CIRCUITRY TO TENANT SIGNAGE LOCATION SHOWN, REF ELEC
   E. INSTALL ACCESS DOORS AND FRAMES IN GYPSUM BOARD CEILINGS IF REQ'D BY RELOCATION OF EXISTING TENANT SIGNAGE
   F. VERIFY VOLTAGE AT CIRCUITS FEEDING LIGHTED SIGNAGE, REF ELEC
   G. MAKE FINAL TERMINATIONS ON LIGHTED SIGNAGE
   H. REMOVE ALL LIT ID/LOGO SIGNS AND UNLIT EXTERIOR STUD MOUNTED BUILDING SIGNS, UNLESS NOTED OTHERWISE
   I. MAKE REQ'D EXTERIOR WALL PENETRATIONS, INSTALL CONDUIT, AND SEAL PENETRATIONS PER SPECS

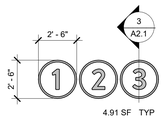
21 **SIGNAGE**
1/4" = 1'-0"



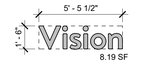
20 **SIGNAGE**
1/4" = 1'-0"



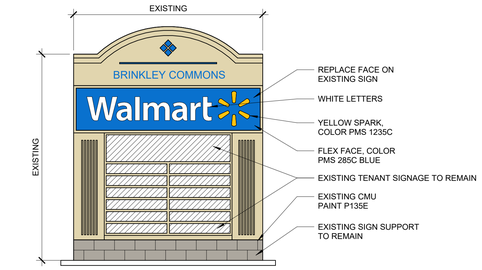
19 **SIGNAGE**
1/4" = 1'-0"



18 **SIGNAGE**
1/4" = 1'-0"



17 **SIGNAGE**
1/4" = 1'-0"

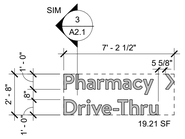


16 **MONUMENT SIGNAGE**
1/4" = 1'-0"

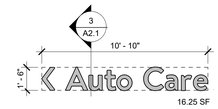


NOTE:
SQUARE FOOTAGE NOT INCLUDED IN BUILDING SIGNAGE SCHEDULE

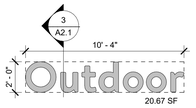
15 **SIGNAGE**
1/4" = 1'-0"



14 **SIGNAGE**
1/4" = 1'-0"



13 **SIGNAGE**
1/4" = 1'-0"



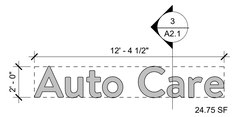
12 **SIGNAGE**
1/4" = 1'-0"



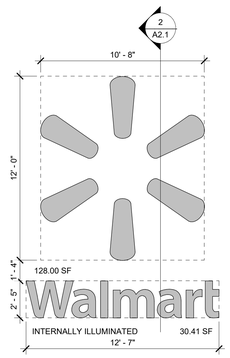
11 **SIGNAGE**
1/4" = 1'-0"



10 **SIGNAGE**
1/4" = 1'-0"

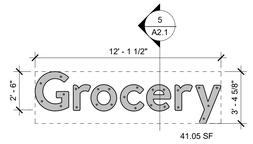


9 **SIGNAGE**
1/4" = 1'-0"

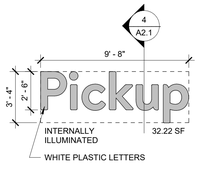


NOTE:
ALL SIGN PENETRATIONS ABOVE ROOF LEVEL MUST BE A CLEAR MINIMUM OF 8" ABOVE DECK

6 **WALMART SIGN**
1/4" = 1'-0"



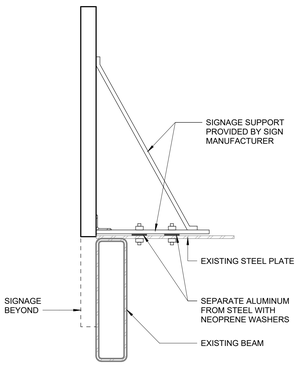
8 **SIGNAGE**
1/4" = 1'-0"



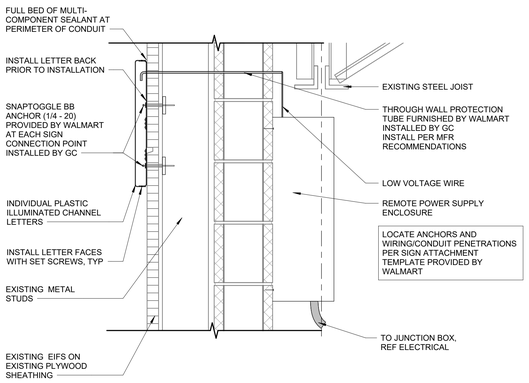
NOTE:
ALL SIGN PENETRATIONS ABOVE ROOF LEVEL MUST BE A CLEAR MINIMUM OF 8" ABOVE DECK

NOTE TO SIGN INSTALLER:
A. ALL PRIMARY MOUNTING HOLES MUST BE UTILIZED
B. IF MOUNTING THROUGH PRIMARY HOLE IS OBSTRUCTED BY REBAR, METAL STUDS, CHANNELS, OR OTHER MISC METAL, SEAL PRIMARY HOLE IN SIGN CAN AND MOUNT THROUGH THE NEAREST ALTERNATE MOUNTING HOLE
C. PRIMARY HOLES ARE INDICATED WITH PREDRILLED HOLES

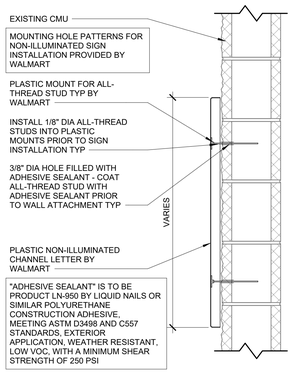
7 **SIGNAGE**
1/4" = 1'-0"



5 **SIGNAGE ATTACHMENT**
1 1/2" = 1'-0"



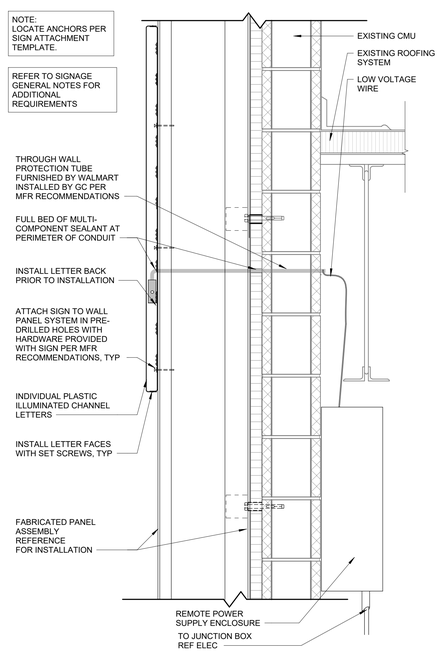
4 **ILLUMINATED SIGNAGE ATTACHMENT**
1 1/2" = 1'-0"



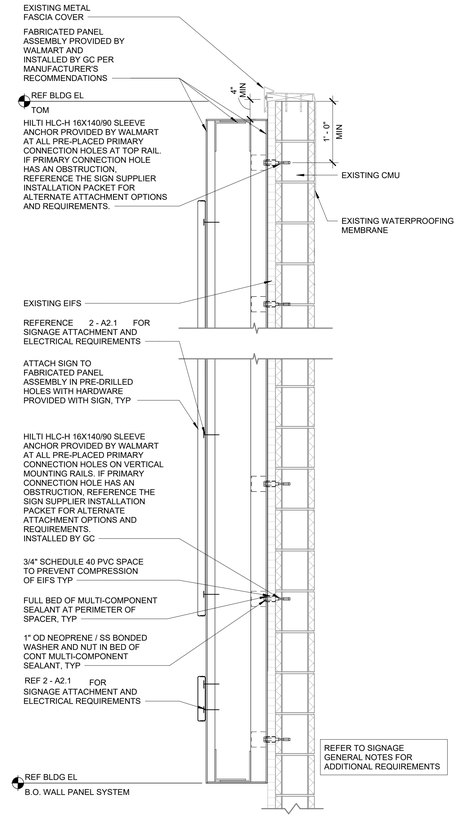
3 **SIGNAGE ATTACHMENT**
1 1/2" = 1'-0"

NOTE:
LOCATE ANCHORS PER SIGN ATTACHMENT TEMPLATE.

REFER TO SIGNAGE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS



2 **SIGNAGE ATTACHMENT**
1 1/2" = 1'-0"



1 **WALL PANEL SECTION CAPTURED**
1" = 1'-0"

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CONSULTANTS

Walmart
CAMERON, NC
2800 NC HWY 24-87
STORE NO. 06958.1000
JOB NUMBER: 194-23-047 PROTO: 182

ISSUE BLOCK

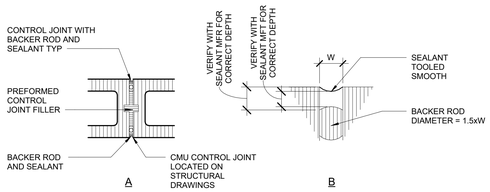
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DRAWN BY:	SMH
PROTO CYCLE:	07/26/24
DOCUMENT DATE:	01/08/25

GABRIEL JOHN MASSA
LICENSED ARCHITECT
9941
STATE OF NEW JERSEY
NEPTUNE, N.J.
01/08/2025

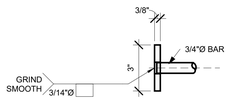
EXTERIOR SIGNAGE

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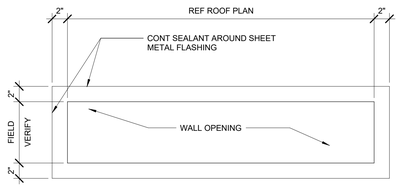
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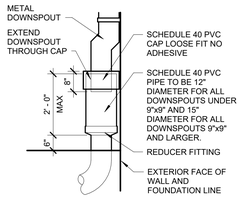
15 ARCH CONTROL JOINT
1 1/2" = 1'-0"



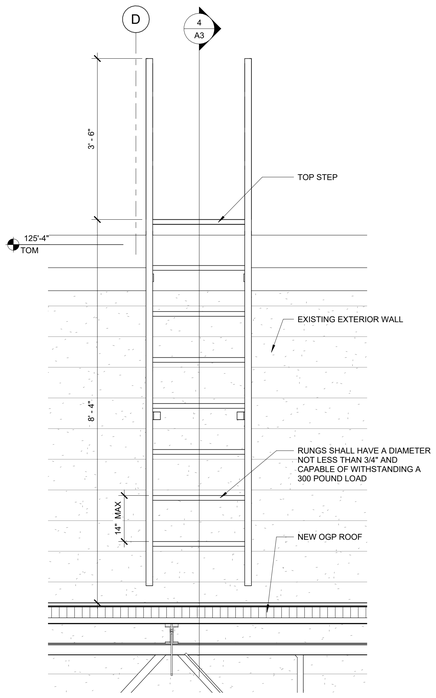
14 ROOF LADDER DETAIL - EXPANSION
3" = 1'-0"



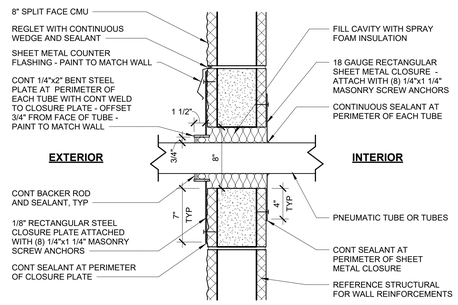
9 SCUPPER ELEVATION
1 1/2" = 1'-0"



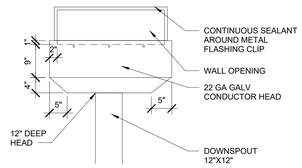
7 DOWNSPOUT COLLECTOR
1/2" = 1'-0"



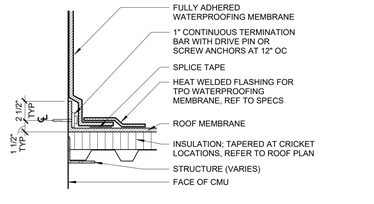
5 ROOF LADDER ELEVATION
3/4" = 1'-0"



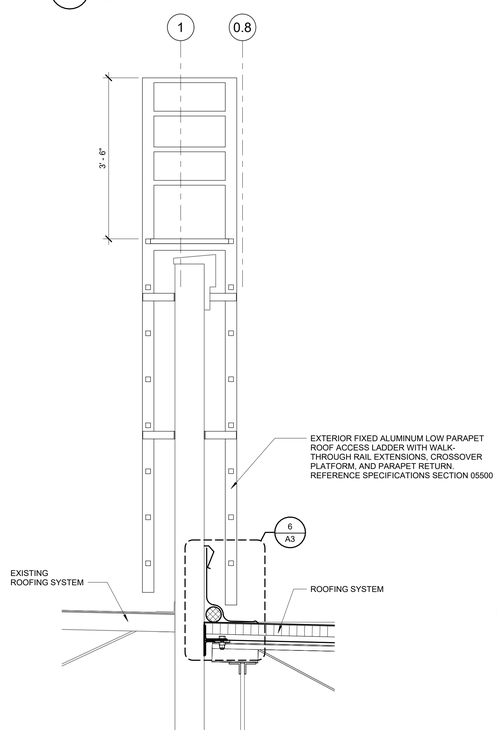
13 PNEUMATIC TUBE PENETRATION
1 1/2" = 1'-0"



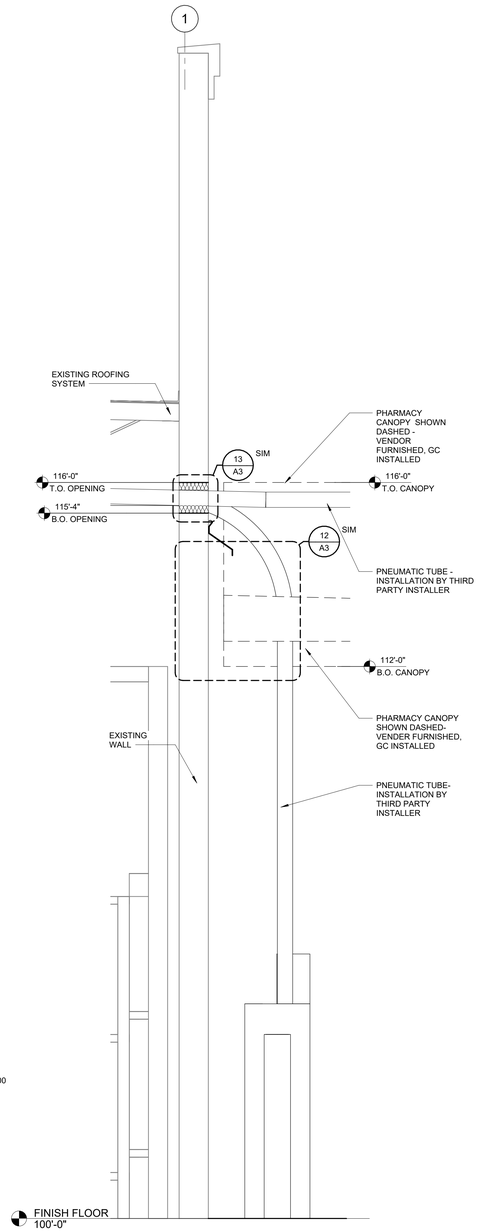
8 CONDUCTOR HEAD
3/4" = 1'-0"



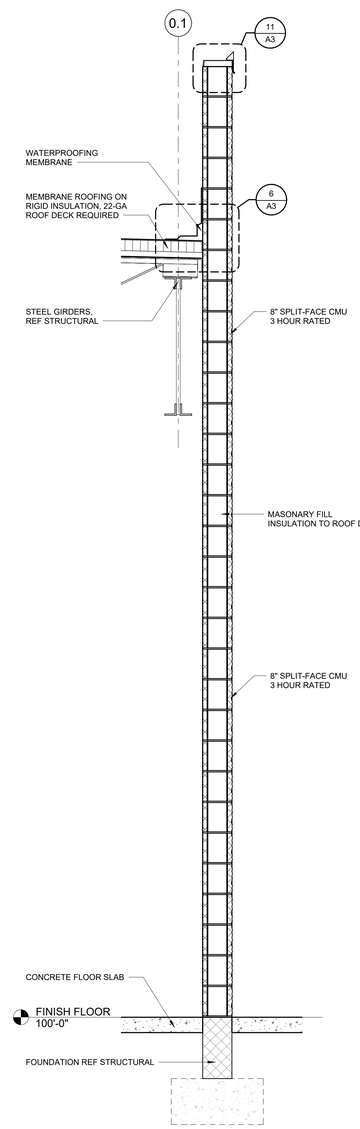
6 FLASHING MEMBRANE
1 1/2" = 1'-0"



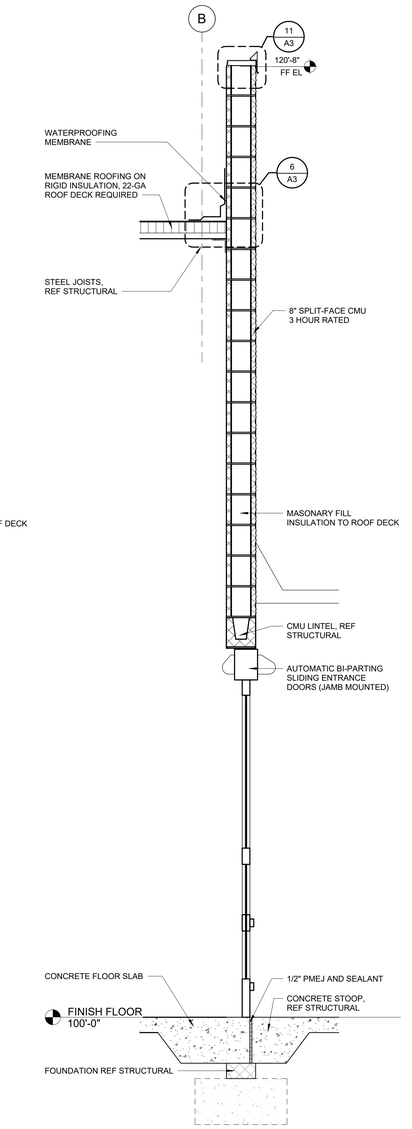
4 SECTION AT ROOF LADDER
3/4" = 1'-0"



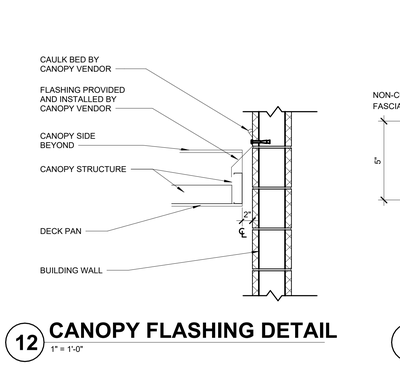
WALL SECTION AT DRIVE-THRU CANOPY
3/4" = 1'-0"



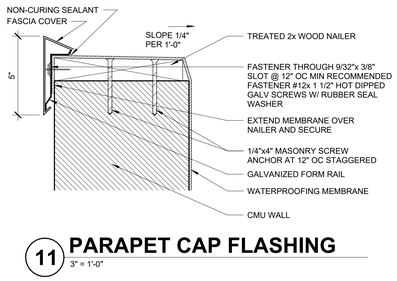
2 WALL SECTION
3/4" = 1'-0"



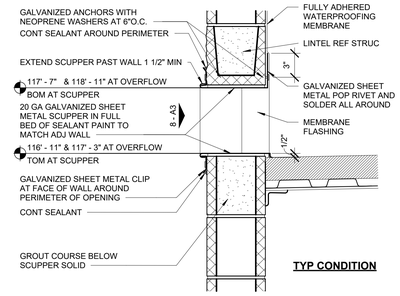
1 WALL SECTION
3/4" = 1'-0"



12 CANOPY FLASHING DETAIL
1" = 1'-0"



11 PARAPET CAP FLASHING
3" = 1'-0"



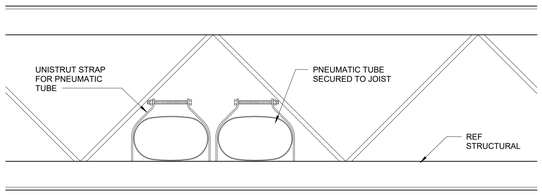
10 THROUGH WALL SCUPPER
1 1/2" = 1'-0"

Gabriel J. Massa, RA, AIA, NCARB, LEED AP
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MMA
MASSA MULTIMEDIA ARCHITECTURE PC.
3297 Route 66, Neptune, NJ 07753
t 732.918.2300 f 732.988.7848

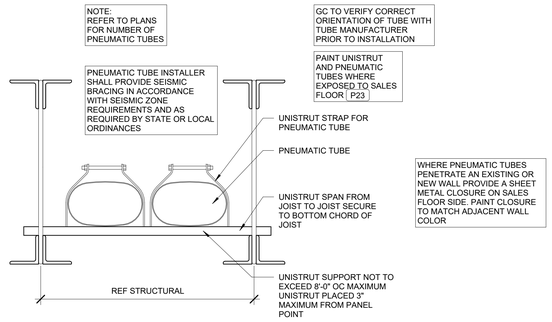
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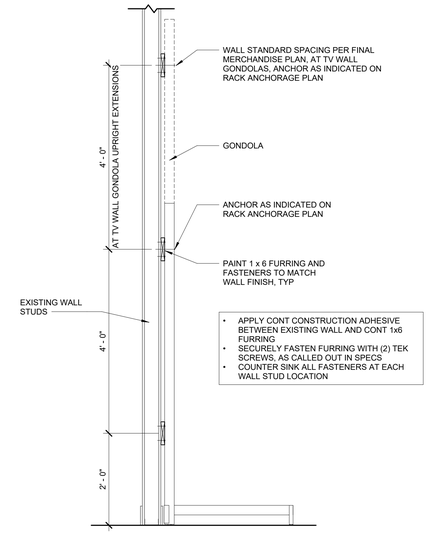


TUBES PERPENDICULAR TO JOIST

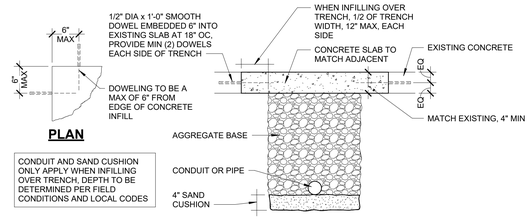


TUBES PARALLEL TO JOIST

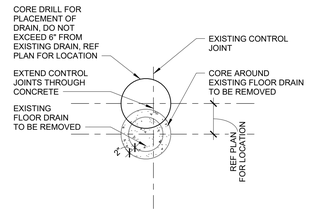
9 TUBE HANGER
12" = 1'-0"



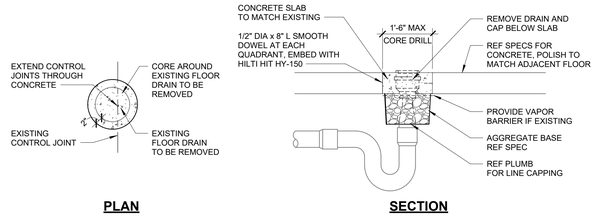
5 GONDOLA ANCHORING ON STUD WALL
3/4" = 1'-0"



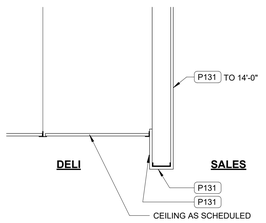
8 SLAB INFILL DETAIL
3/4" = 1'-0"



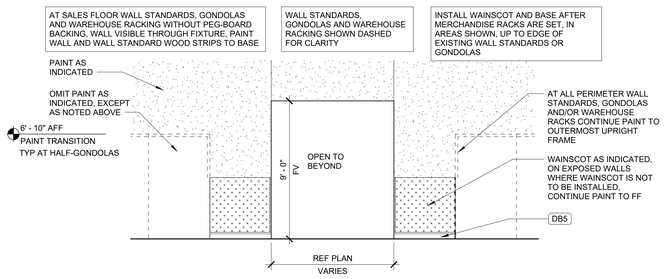
7 FLOOR DRAIN CORING DETAIL
3/4" = 1'-0"



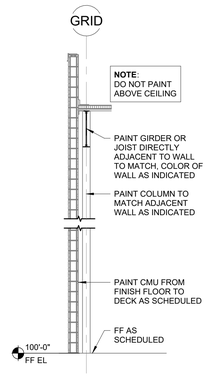
6 FLOOR DRAIN CAPPING DETAIL
3/4" = 1'-0"



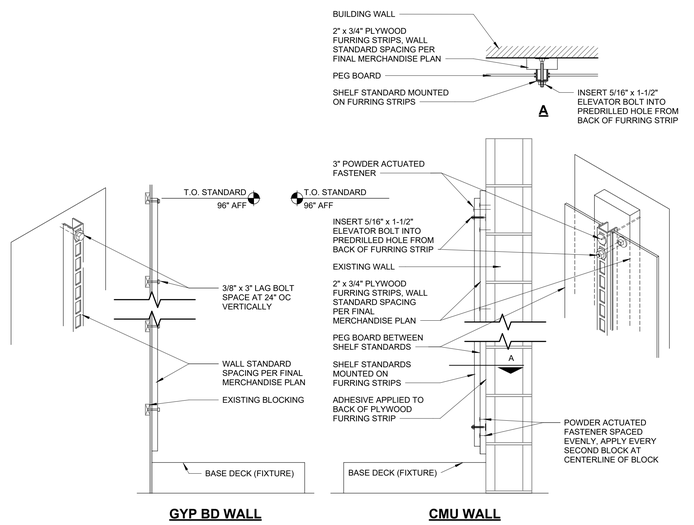
4 SECTION AT DELI BULKHEAD
1" = 1'-0"



SALES WALL FINISHES @ PERIMETER HALF-GONDOLAS
3
1/4" = 1'-0"



EXISTING EXTERIOR CMU WALL SECTION
2
1/4" = 1'-0"



1 WALL STANDARD MOUNTING
NTS

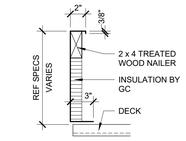
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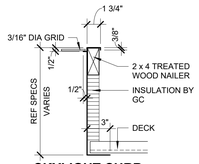
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CAMERON, NC
2800 NC HWY 24-87
STORE NO.: 06958.1000
JOB NUMBER: 194-23-047 PROTO: 182

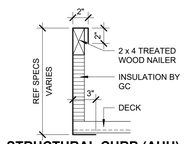
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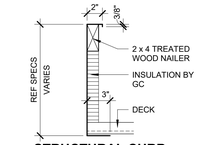
NON-STRUCTURAL CURB



SKYLIGHT CURB

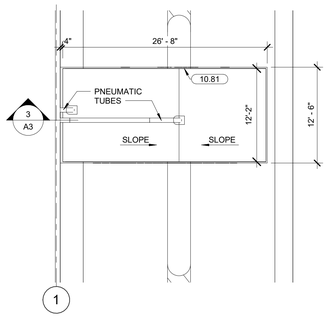


STRUCTURAL CURB (AHU)

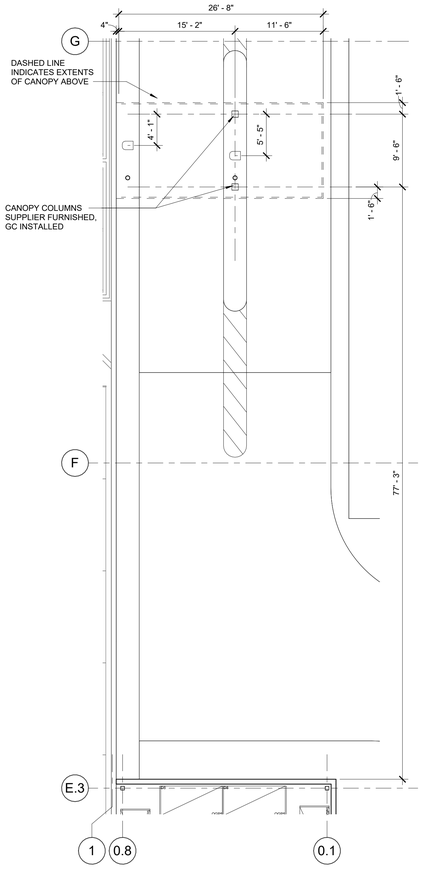


STRUCTURAL CURB

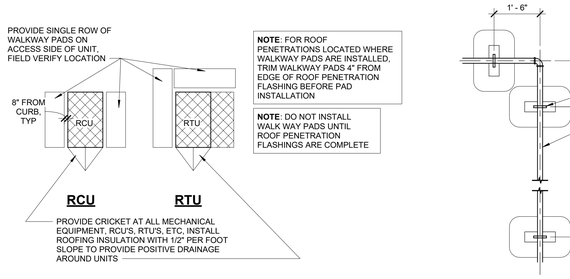
10 CURB
1 1/2" = 1'-0"



4 PHARMACY CANOPY ROF PLAN
1/8" = 1'-0"



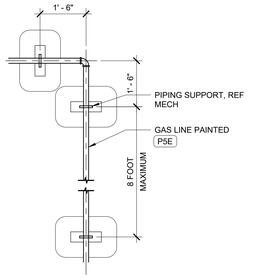
3 PHARMACY CANOPY COLUMN PLAN
1/8" = 1'-0"



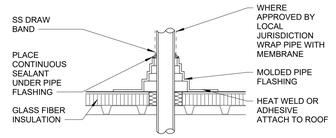
NOTE: FOR ROOF PENETRATIONS LOCATED WHERE WALKWAY PADS ARE INSTALLED, TRIM WALKWAY PADS 4" FROM EDGE OF ROOF PENETRATION FLASHING BEFORE PAD INSTALLATION

NOTE: DO NOT INSTALL WALK WAY PADS UNTIL ROOF PENETRATION FLASHINGS ARE COMPLETE

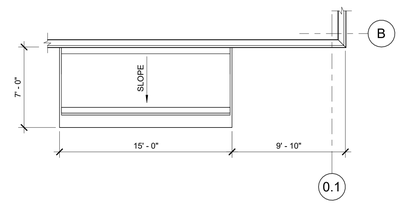
9 PAD LAYOUT (TYP ALL UNITS)
NTS



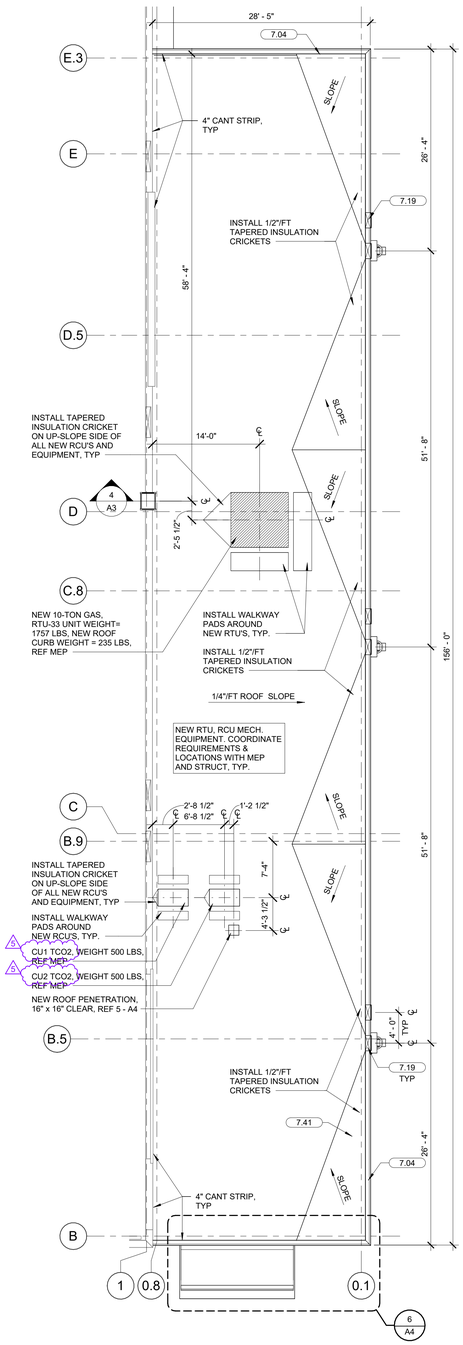
8 PIPING SUPPORT PLAN
1/2" = 1'-0"



7 ROOF PENETRATION
1" = 1'-0"

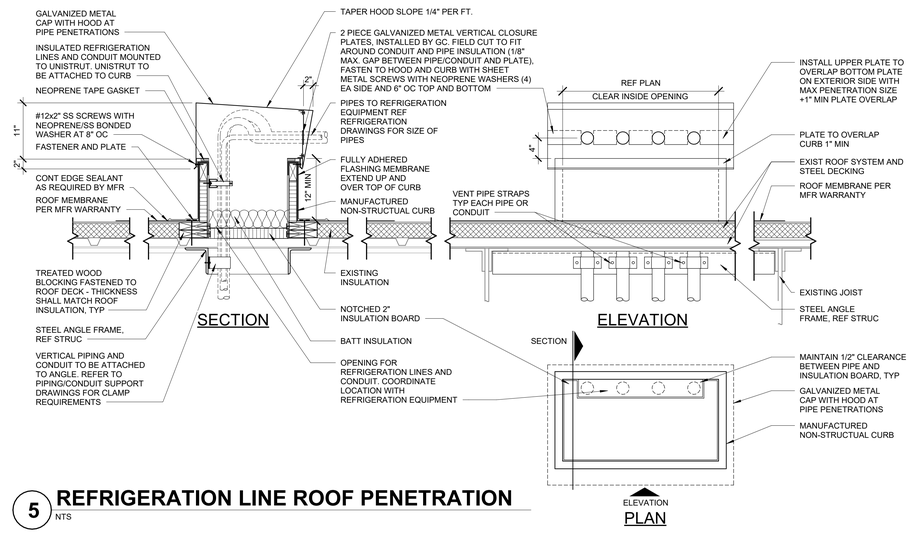


6 ENLARGED ASSOCIATE CANOPY
3/16" = 1'-0"

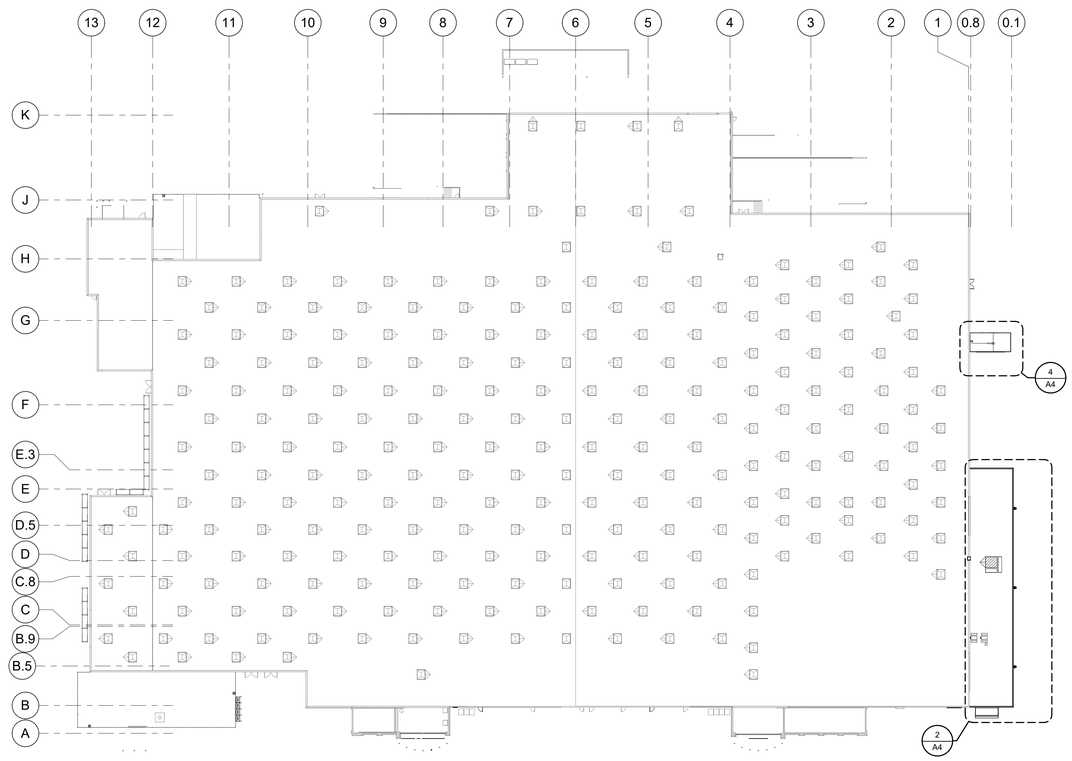


2 OGP ROOF ENLARGED PLAN
1/8" = 1'-0"

INSTALLATION NOTES:
1. ROOF PENETRATION CURB, HOOD AND CLOSURE PLATES ARE FURNISHED BY OWNER AND INSTALLED BY GENERAL CONTRACTOR
2. ALL HOOD PENETRATIONS SHALL BE THROUGH VERTICAL CLOSURE PLATES ONLY
   - PIPING AND CONDUIT SHALL BE INSTALLED BY TRADE CONTRACTORS WITH PIPE AND CONDUIT CENTERLINES 4" ABOVE TOP OF ROOF CURB WITH MINIMUM OF 1" BETWEEN PIPE AND CONDUIT EXTERNAL SURFACE
3. GENERAL CONTRACTOR SHALL CUT AND INSTALL VERTICAL CLOSURE PLATES AFTER ALL PIPING AND CONDUITS ARE INSTALLED AND SEAL ALL PENETRATIONS AS NOTED IN DETAIL AND PROVIDE CONTINUOUS SEALANT AT PERIMETER JOINT BETWEEN CLOSURE PLATES, HOOD, CURB, AND WHERE CLOSURE PLATES OVERLAP, REF SPECS
   - EXPANDING FOAM SEALANT SHALL NOT BE USED WHERE SEALANT IS EXPOSED TO EXTERIOR
4. EXTEND EXTERIOR REFRIGERANT AND WATER LINE EXTERNAL PVC INSULATION JACKET 1" INSIDE HOOD METAL CLOSURE PLATES



5 REFRIGERATION LINE ROOF PENETRATION
NTS



1 ROOF PLAN
1" = 40'-0"

SHEET NOTES
1. INSTALL MOLDED PIPE FLASHING AT ALL PIPE, FLUE, OR CONDUIT PENETRATIONS THROUGH ROOF. REF MEP SHEETS FOR LOCATIONS REF 7 - A4 REF - - -

ROOF LEGEND
- EXISTING ROOF HATCH
- EXISTING RTU/AHU
- RTU/AHU
- EXISTING SKY LIGHT

KEYNOTES
7.04	METAL FASCIA COVER
7.19	OVERFLOW SCUPPER
7.41	1/2" PER FT TAPERED INSULATION CRICKET
10.81	CORNER GUARD TRIM "G", FULL HEIGHT UNLESS NOTED OTHERWISE

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194-23-047 PROTO
JOB NUMBER: 182

ISSUE BLOCK		
1	PR1	07/02/2025
2	PR2	07/25/2025
4	ADD2	09/10/2025
5	CCD1	12/04/2025

CHECKED BY:	MMA
DRAWN BY:	WM
PROTO CYCLE:	07/26/24
DOCUMENT DATE:	01/08/25



12/04/2025

ROOF PLAN AND DETAILS

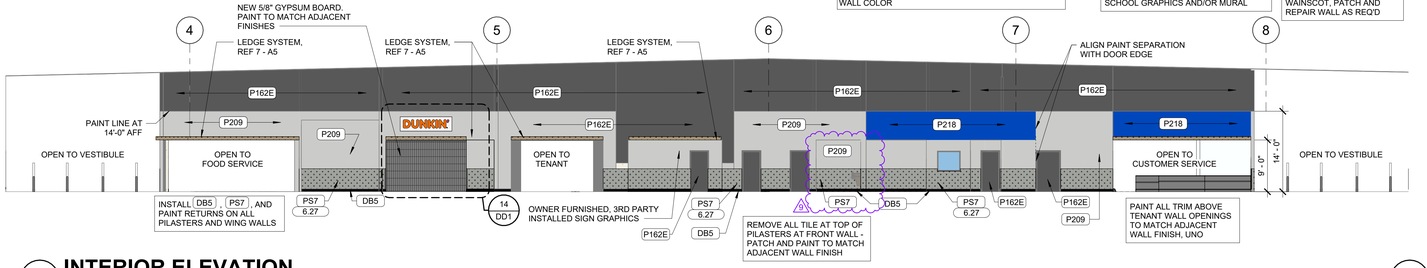
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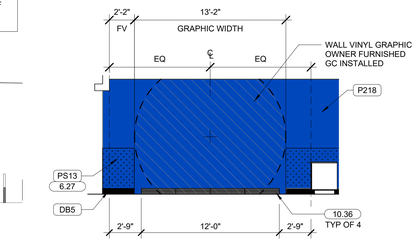
WHERE SIGNAGE IS REMOVED, PATCH AND REPAIR WALL FINISHES AS REQUIRED TO MATCH EXISTING ADJACENT FINISH TEXTURE AND PAINT TO MATCH NEW WALL COLOR

COORDINATE WITH WM CONSTRUCTION MANAGER AND STORE MANAGER FOR PAINTING AROUND OR PAINTING OVER SCHOOL GRAPHICS AND/OR MURAL

REMOVE HARDWOOD TRIM AT OPENING JAMBS TO ALLOW FOR ADDITION OF WAINSCOT, PATCH AND REPAIR WALL AS REQ'D



9 INTERIOR ELEVATION
3/32" = 1'-0"



10 CUSTOMER SERVICE ELEVATION
3/16" = 1'-0"

REMOVE INTERIOR TENANT SIGNAGE AS INDICATED BELOW:

ALL TENANT SPACES (EXCLUDING FULL SERVICE FOOD TENANTS)-
- REMOVE ALL SIGNS, INCLUDING BLACK PLACARDS AND LIT SIGNS, RETURN TO TENANT
  1. ELECTRICAL FOR REMOVED LIT SIGNS TO BE TERMINATED BACK TO NEAREST JUNCTION BOX
  2. PATCH, REPAIR AND PAINT BULKHEAD WALL AT REMOVED SIGN AND ASSOCIATED ELECTRICAL, WALLPAPER AND/OR ORNAMENTATION TO MATCH ADJACENT CONSTRUCTION AND FINISHES
- REMOVE ALL WALLPAPER AND/OR ORNAMENTS ON BULKHEAD AND WALL BELOW UNO

ALL FULL SERVICE FOOD TENANTS-
- EXISTING LIT TENANT SIGNS, NON-BLACK PLACARD SIGNS AND GRAPHICS ON LOWER BULKHEADS AND AWNINGS TO REMAIN, DO NOT REMOVE. PAINT AROUND SIGN, TREAT TENANTS (I.E. PRETZEL COMPANIES) THAT ARE OCCUPYING FULL SERVICE FOOD TENANT SPACES MAY CONTINUE TO USE LIT SIGNAGE
- REMOVE BLACK PLACARD TENANT SIGNS
- REMOVE MCDONALD'S ARCHES ON UPPER BULKHEAD
- LIT SIGNAGE CAN HAVE TENANT BRANDED BULKHEAD WITH EXCEPTION OF WALMART BLUE, USE OF WALMART BLUE ACCENTS WILL REQUIRE APPROVAL BY WALMART SERVICES
- PATCH, REPAIR AND PAINT BULKHEAD WALL AT REMOVED ELECTRICAL, WALLPAPER AND/OR ORNAMENTATION TO MATCH ADJACENT CONSTRUCTION AND FINISHES, ELECTRICAL FOR REMOVED LIT SIGNS TO BE TERMINATED BACK TO NEAREST JUNCTION BOX

WALMART OWNED TENANT SIGNS AND ORNAMENTS ARE TO BE RETURNED TO FIELD PROJECT SUPERVISOR, THIRD-PARTY TENANT SIGNS AND ORNAMENTS ARE TO BE RETURNED TO TENANT IF THIRD-PARTY TENANT REQUESTS THEIR SIGN, WALLPAPER OR ORNAMENTATION NOT TO BE REMOVED, CONTACT WALMART CONSTRUCTION MANAGER

SHEET NOTES

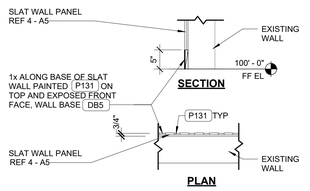
1. PAINT STRUCTURE AS INDICATED ON 2-A1 AND PAINT GYP BD WALLS TO 6" BEHIND TOP AND SIDES OF REFRIGERATED CASES.
2. CASH RECYCLER OWNER FURNISHED AND INSTALLED

KEYNOTES

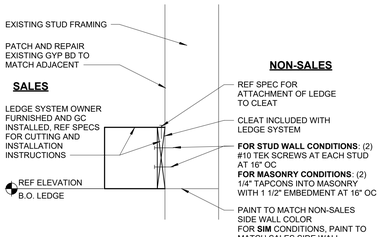
6.27	48" HIGH WAINSCOT WITH OUTSIDE CORNER TRIM
10.33	2"X2" HIGH IMPACT CORNER TRIM
10.36	6"X 6"X 3' RECYCLED RUBBER TIRE STOP
10.44	PROVIDE TACTILE "EXIT" SIGN. REF N1.
16.05	INSTALL INSET CONTROL UNIT TYPE NOTED BESIDE UNIT. REFER TO N1 FOR LEGEND AND NOTES.

COLOR LEGEND

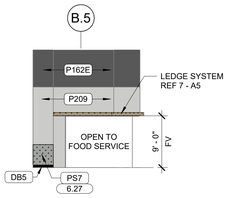
DB5	DURO BASE BLACK 5"
P131	WHITE FLOUR SW#7102
P162E	BLACK GRAY
P209	PASSIVE GRAY SW#7064
P218	TRUE BLUE SW#2728
PS7	GRAY PATTERN
PS13	WALMART TRUE BLUE



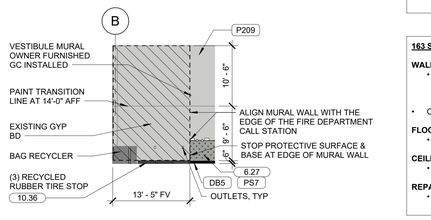
8 SLAT WALL DETAIL
3/4" = 1'-0"



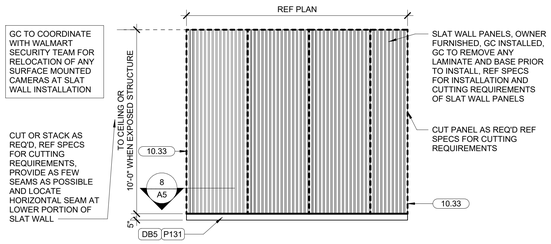
7 LEDGE DETAIL
1 1/2" = 1'-0"



FOOD SERVICE INTERIOR ELEVATION
6
3/32" = 1'-0"



5 MURAL ELEVATION
3/32" = 1'-0"



4 SLAT WALL ELEVATION
1/4" = 1'-0"

808 WHITE BOX

WALLS
- EXTERIOR: GYP BOARD PAINTED - P209, LEDGE - WAINSCOT - PS7, BASE - DB5.
- REMOVE EXISTING WALL(S) AND MILLWORK SHOWN AS DASHED, REPAIR ANY INTERIOR DAMAGED WALLS AND PAINT - P131, BASE - DB5, TYP

FLOOR
- REMOVE AND REPLACE DAMAGED TRANSITION STRIP(S) TO MATCH EXISTING
- REMOVE EXISTING FLOOR FINISH AND CONVERT FLOOR TO EC FINISH. REF SPEC SECTION 03931

CEILING
- REPLACE ALL CEILING TILE WITH ACT1, PAINT CEILING GRID TO REMAIN (P8)
- CLEAN EXISTING LIGHT LENSES, SECURITY GLOBES, SPRINKLER HEADS AND HVAC FIXTURES TO REMAIN
- REF SHEET SA1 FOR CEILING SCHEDULE.

163 SITE TO STORE

WALLS
- GYP BD: PATCH AND REPAIR
  - PAINT ALL WALLS P209
  - INSTALL PS7 WAINSCOT AND DB5 BASE
- CMU: DON'T PAINT

FLOOR
- EC ETR

CEILING
- OPEN TO STRUCTURE, NO FINISH

REPAIR / REMOVE / REPLACE
- REPLACE DAMAGED OUTLETS AND OUTLET COVER PLATES

107 CASH, 108 COUNTING

WALLS
- PAINT P131 TO CEILING
- PATCH AND REPAIR

FLOOR
- ETR

CEILING
- GYP BD: REF SHEET SA1 CEILING SCHEDULE FOR CLEANING. PAINT P131

MILLWORK
- PAINT PIPE SUPPORT COUNTER LEGS P162
- SAND AND VARNISH OAK ON COUNTER TOP

3 NOT USED

105 CUSTOMER SERVICE, 106 RETURN STORAGE

WALLS
- UNO: PAINT P131, PS7 48" HIGH WAINSCOT WITH OUTSIDE CORNER TRIM, BASE DB5. REF 2-A5 FOR EXCEPTIONS.

FLOOR
- ETR

CEILING
- REF SHEET SA1 FOR CEILING SCHEDULE

MILLWORK
- RE-LAMINATE FRONT FACE AND SIDE FACES OF EXISTING CASEWORK, INSTALL NEW WALL GUARD, INFILL TOE KICK AND INSTALL BASE
  a. NO SCOPE OF WORK FOR PHOTO LAB CABINETS
- EXISTING BACK COUNTER: RE-LAMINATE FACE OF DOORS AND FACE OF STILES, IF THERE IS OPEN SHELVING WITHOUT HARDWOOD EDGE TRIM, RE-LAMINATE EDGE OF OPEN SHELVING
- EXISTING SOLID SURFACE OR LAMINATE COUNTERTOP (FRONT AND BACK COUNTER): REPLACE COUNTERTOP WITH NEW SS COUNTERTOP
  a. GC TO CUT TOPS AS REQUIRED FOR INSTALLATION OF SENSORMATIC EQUIPMENT. SENSORMATIC TO PROVIDE TEMPLATES FOR CUT OUTS.

REPAIR / REMOVE / REPLACE
- REPLACE DAMAGED OUTLETS, NON-ALMOND TO MATCH EXISTING COLOR, REPLACE ALMOND WITH WHITE
- REPLACE CUSTOMER VISIBLE ALMOND OUTLETS WITH WHITE
- REPLACE DAMAGED AND CUSTOMER VISIBLE COVER PLATES WITH BRUSHED STAINLESS STEEL, INCLUDING BLANK PLATES
- REPLACE DAMAGED DIFFUSERS AS REQUIRED

113 STORE MANAGERS OFFICE

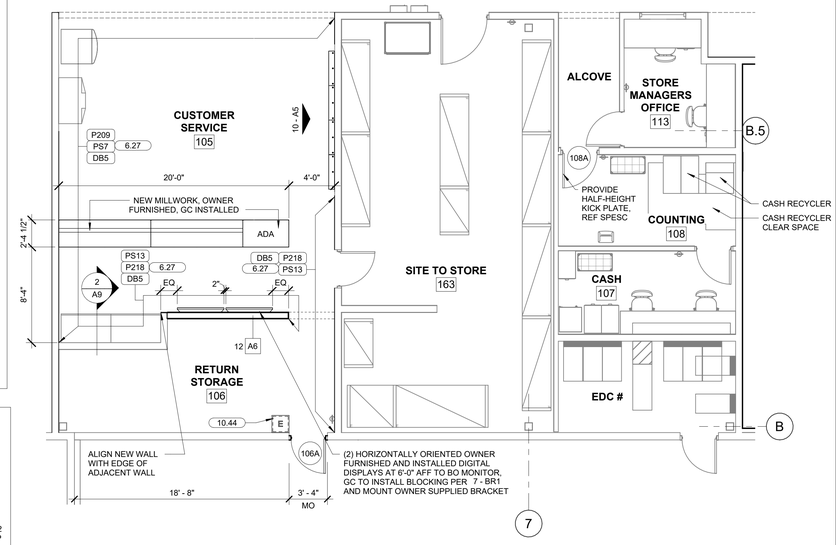
WALLS
- PAINT P131 TO CEILING

FLOOR
- ETR

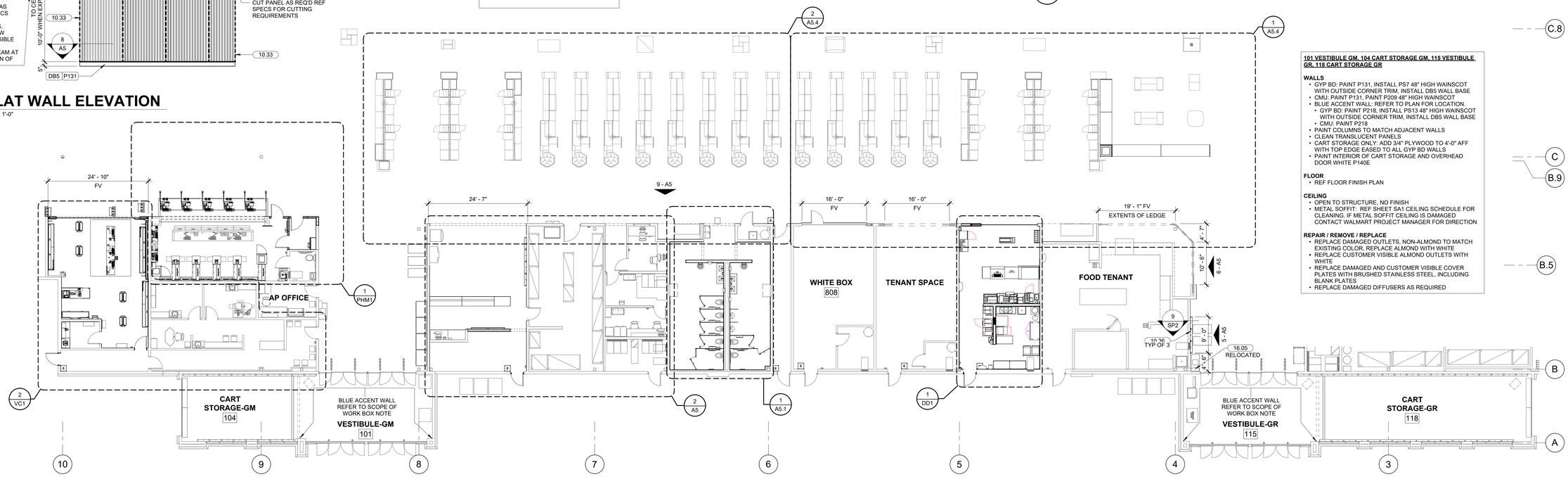
CEILING
- REF SHEET SA1 FOR CEILING SCHEDULE

MILLWORK
- PAINT PIPE SUPPORT COUNTER LEGS P162
- SAND AND VARNISH OAK ON COUNTERTOP
- REPLACE COUNTERTOP TO MATCH EXISTING IF DAMAGED

REMOVE RESTROOM NEEDS CLEANING LIT SIGN, PATCH AND REPAIR WALL AS NEEDED FOR FINISHES. IF EXISTING IN SUSPENDED LAY IN CEILING REPLACE CEILING TILE, REMOVE ALL PLACARD SIGNAGE ASSOCIATED WITH LIT SIGN RESTROOM NEEDS CLEANING SWITCH AND SIGN, PATCH AND REPAIR WALL AS REQUIRED FOR FINISHES



2 CUSTOMER SERVICE FLOOR PLAN
3/16" = 1'-0"



101 VESTIBULE GM, 104 CART STORAGE GM, 115 VESTIBULE GR, 118 CART STORAGE GR

WALLS
- GYP BD: PAINT P131, INSTALL PS7 48" HIGH WAINSCOT WITH OUTSIDE CORNER TRIM, INSTALL DB5 WALL BASE
- CMU: PAINT P131, PAINT P209 48" HIGH WAINSCOT
- BLUE ACCENT WALL: REFER TO PLAN FOR LOCATION.
  - GYP BD: PAINT P218, INSTALL PS13 48" HIGH WAINSCOT WITH OUTSIDE CORNER TRIM, INSTALL DB5 WALL BASE
  - CMU: PAINT P218
- PAINT COLUMNS TO MATCH ADJACENT WALLS
- CLEAN TRANSLUCENT PANELS
- CART STORAGE ONLY: ADD 3/4" PLYWOOD TO 4'-0" AFF WITH TOP EDGE SEALED TO ALL GYP BD WALLS
- PAINT INTERIOR OF CART STORAGE AND OVERHEAD DOOR WHITE P140E

FLOOR
- REF FLOOR FINISH PLAN

CEILING
- OPEN TO STRUCTURE, NO FINISH
- METAL SOFFIT: REF SHEET SA1 CEILING SCHEDULE FOR CLEANING. IF METAL SOFFIT CEILING IS DAMAGED CONTACT WALMART PROJECT MANAGER FOR DIRECTION

REPAIR / REMOVE / REPLACE
- REPLACE DAMAGED OUTLETS, NON-ALMOND TO MATCH EXISTING COLOR, REPLACE ALMOND WITH WHITE
- REPLACE CUSTOMER VISIBLE ALMOND OUTLETS WITH WHITE
- REPLACE DAMAGED AND CUSTOMER VISIBLE COVER PLATES WITH BRUSHED STAINLESS STEEL, INCLUDING BLANK PLATES
- REPLACE DAMAGED DIFFUSERS AS REQUIRED

1 FRONT TENANT WALL FLOOR PLAN
3/32" = 1'-0"

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STIPULATION FOR REUSE

THE DRAWING WAS PREPARED FOR USE ON A SPECIFIC SITE AT: CAMERON, NC

CONTEMPORANEOUSLY WITH ITS ISSUE, CLIENT INTENDED TO CONSTRUCT A LIKE BUILDING ON THE SITE. ANY OTHER USE, AND FURTHER PROJECT BEYOND THE SCOPE OF THE ORIGINAL PROJECT, BY ARCHITECTS AND ENGINEERS, WITHOUT THEIR WRITTEN CONSENT FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND RELEASES ARCHITECT FROM THE LAW

CONSULTANTS

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CAMERON, NC
2800 NC HWY 24-87
STORE NO.: 06958.1000
194-23-047 PROTO
JOB NUMBER: 182

ISSUE BLOCK

1	PR1	07/02/2025
4	ADD2	09/10/2025
5	CCD1	12/04/2025
8	CCD3	02/12/2026
9	CCD4	03/25/2026

CHECKED BY:	MMA
DRAWN BY:	WM
PROTO CYCLE:	07/26/24
DOCUMENT DATE:	01/08/25



3/25/2026

ENLARGED PLANS, ELEVATIONS AND DETAILS

SHEET: A5

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125 JANITOR

WALLS
- GYP BD: PATCH AND REPAIR. REF FINISH PLAN
- FRP/NRP:
  - AREAS NOT VISIBLE TO CUSTOMER: ONLY REPLACE TAN SHEETS THAT ARE DAMAGED OR UNCLEANABLE WITH WHITE (FRP1), WHEN AN INDIVIDUAL SHEET(S) IS REQUIRED TO BE REPLACED, REPLACE THE ENTIRE LENGTH OF THE WALL
  - AREAS VISIBLE TO CUSTOMER: REPLACE SHEETS THAT ARE DAMAGED OR TAN WITH WHITE (FRP1). EXCLUDE AREAS VISIBLE THROUGH TRAFFIC DOOR WINDOWS
- WAINSCOT: REPLACE IF DAMAGED, REF FINISH PLAN

REPAIR / REMOVE / REPLACE
- REPLACE MOP SINK IF BROKEN OR CRACKED

113 RESTROOM ALCOVE

WALLS
- REF FINISH PLANS

FLOOR
- REF FINISH PLANS

CEILING
- GYP BD: REF SHEET SA1 CEILING SCHEDULE FOR CLEANING. PAINT CEILING P131

REPAIR / REMOVE / REPLACE
- REPLACE ALL OUTLETS WITH WHITE
- REPLACE ALL COVER PLATES WITH BRUSHED STAINLESS STEEL, INCLUDING BLANK PLATES
- CLEAN OR REPLACE DAMAGED DIFFUSERS AND RETURNS AS REQUIRED

111, 112, 165, 166, 167 (CUSTOMER RESTROOMS), 184 (RESTROOM ALCOVE)

GENERAL
- ALL WATER CLOSETS AND URINALS TO BE REINSTALLED IN SAME LOCATION

WALLS
- REF FINISH PLANS

FLOOR
- REF FINISH PLANS

CEILING
- GYP BD: REF SHEET SA1 CEILING SCHEDULE FOR CLEANING. PAINT CEILING P131

REPAIR / REMOVE / REPLACE
- REPLACE ALL OUTLETS WITH WHITE
- REPLACE ALL COVER PLATES WITH BRUSHED STAINLESS STEEL, INCLUDING BLANK PLATES
- CLEAN OR REPLACE DAMAGED DIFFUSERS AND RETURNS AS REQUIRED
- WATER CLOSET OR URINAL:
  - CLEAN AND REPAIR, REF SPECS
  - REPLACE IF UNABLE TO RESTORE TO LIKE NEW CONDITION

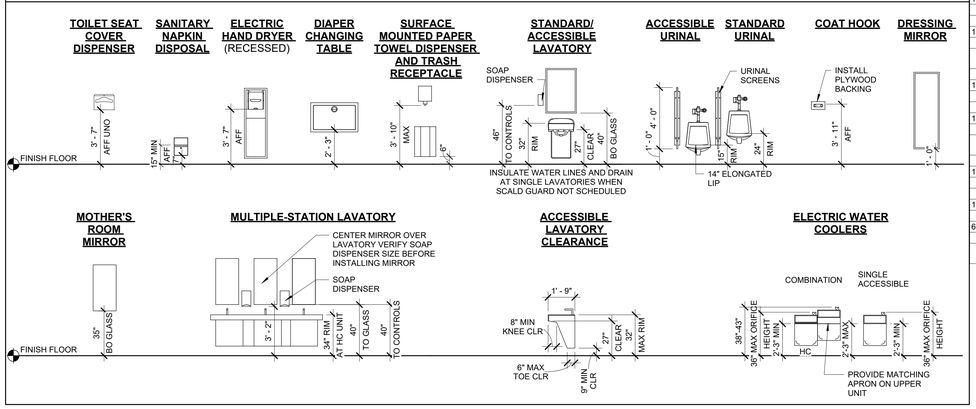
AIRPORT STYLE ENTRY ALCOVE

WALLS
- REF FINISH PLANS
- REPLACE OAK BOARD TRIM WITH ALUMINUM CORNER GUARDS

FLOOR
- REF FINISH PLANS

FIXTURE HEIGHTS AND CLEARANCES

COMPLY WITH THIS CHART AND ADA STANDARDS FOR ACCESSIBLE DESIGN



CUSTOMER RESTROOM FIXTURE SCHEDULE

MARK	ROOM NAME	
111	CUSTOMER MEN	
	TYPE OF WATER CLOSET	TANKLESS FLUSH VALVE, TANK
	NUMBER OF 18" WIDE MIRRORS	2
112	CUSTOMER WOMEN	
	TYPE OF WATER CLOSET	TANKLESS FLUSH VALVE, TANK
	NUMBER OF 20" WIDE DRESSING MIRRORS	1
	NUMBER OF 18" WIDE MIRRORS	2
165	CUSTOMER MEN	
	TYPE OF WATER CLOSET	TANKLESS FLUSH VALVE, TANK
	NUMBER OF 18" WIDE MIRRORS	2
166	CUSTOMER WOMEN	
	TYPE OF WATER CLOSET	TANKLESS FLUSH VALVE, TANK
	NUMBER OF 20" WIDE DRESSING MIRRORS	1
	NUMBER OF 18" WIDE MIRRORS	2
167	FAMILY	
	TYPE OF WATER CLOSET	TANKLESS FLUSH VALVE, TANK
	NUMBER OF 18" WIDE MIRRORS	1
184	MOTHER'S ROOM	
	NUMBER OF 18" WIDE MIRRORS	1
601	TOILET (ACC)	
	TYPE OF WATER CLOSET	TANK FLUSH
	NUMBER OF 18" WIDE MIRRORS, REPLACE IF DAMAGED	1

SHEET NOTES

1. INTERIOR PLAN DIMENSIONS ARE TO FACE OF FINISH UNO
2. PROVIDE A CONTINUOUS BEAD OF SEALANT IN FOLLOWING LOCATIONS:
   - PERIMETER OF ALL TOILETS AND URINALS TO WALLS AND FLOORS
   - PERIMETER OF SINK TO WALL
   - PERIMETER OF MIRRORS TO WALL
   - PERIMETER OF DIAPER CHANGING TABLE TO WALL
3. REPLACE ALL TOILET SEATS THROUGHOUT STORE BOTH PUBLIC AND ASSOCIATE RESTROOMS, BEMIS MODEL 1055SSC, MAINLINE ML 10552SSC
4. PROVIDE BATT INSULATION FOR SOUND PROOFING IN TOILET ROOM WALLS
5. PARTITION DOORS ON WHEELCHAIR ACCESSIBLE AND AMBULATORY STALLS SHALL BE 34" WIDE UNO
6. PARTITION DOORS ON STANDARD STALLS SHALL BE 28" WIDE
7. PROVIDE BLOCKING AS REQUIRED AT SINKS AND FIXTURES PER MANUFACTURER'S RECOMMENDATION
8. FLOOR DRAINS IN CUSTOMER RESTROOMS ARE TO BE FLUSH WITH TOP OF FLOOR FINISH
   - LEVEL SLAB TO DEPTH NEEDED FOR INSTALLATION OF CONCRETE OVERLAY, MATCH EXISTING GRADE
9. PATCH, REPAIR AND REPAINT GYPSUM BOARD CEILING TO MATCH ADJACENT FINISH WHEN LIGHTING IS TO BE REPLACED WITH RECESSED LIGHTS
10. INSTALL OWNER FURNISHED FOOT OPERATED DOOR OPENER ON ALL RESTROOM DOORS WITHOUT A LATCH
    - LOCATE IN LOWER CORNER ON PULL SIDE OF DOOR PER MFR'S RECOMMENDATIONS

KEYNOTES

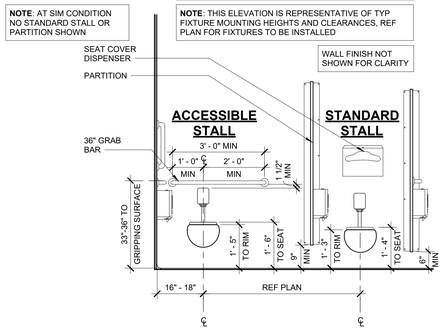
10.05	PAPER TOWEL DISPENSER (SURFACE MOUNTED)
10.06	TOILET PAPER HOLDER
10.07	SANITARY NAPKIN DISPOSAL
10.09	SOAP DISPENSER
10.11	MIRROR
10.12	TOILET SEAT COVER DISPENSER
10.13	TOILET PARTITIONS (REF SPECS FOR TYPE AND HEIGHT)
10.14	GRAB BARS
10.15	URINAL SCREEN WITH FULL LENGTH ANGLE MOUNTING BRACKETS, REF SPECS
10.17	FREE STANDING TRASH RECEPTACLE, OWNER FURNISHED

NOTE: AT SIM CONDITION NO STANDARD STALL OR PARTITION SHOWN

NOTE: WHERE ADMINISTRATIVE AUTHORITY REQUIRES FLUSH CONTROLS FOR FLUSH VALVES TO BE LOCATED IN POSITION THAT CONFLICTS WITH LOCATION OF REAR GRAB BAR, THEN REAR GRAB BAR SHALL BE PERMITTED TO BE SPLIT OR SHIFTED TO OPEN SIDE OF TOILET AREA

NOTE: THIS ELEVATION IS REPRESENTATIVE OF TYP FIXTURE MOUNTING HEIGHTS AND CLEARANCES, REF PLAN FOR FIXTURES TO BE INSTALLED

WALL FINISH NOT SHOWN FOR CLARITY

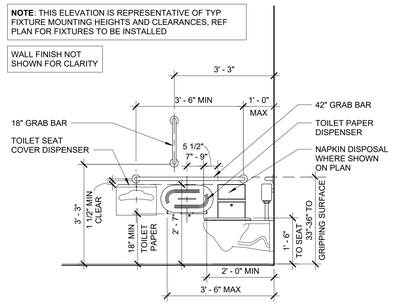


4 STALL ELEVATION

1/2" = 1'-0"

NOTE: THIS ELEVATION IS REPRESENTATIVE OF TYP FIXTURE MOUNTING HEIGHTS AND CLEARANCES, REF PLAN FOR FIXTURES TO BE INSTALLED

WALL FINISH NOT SHOWN FOR CLARITY



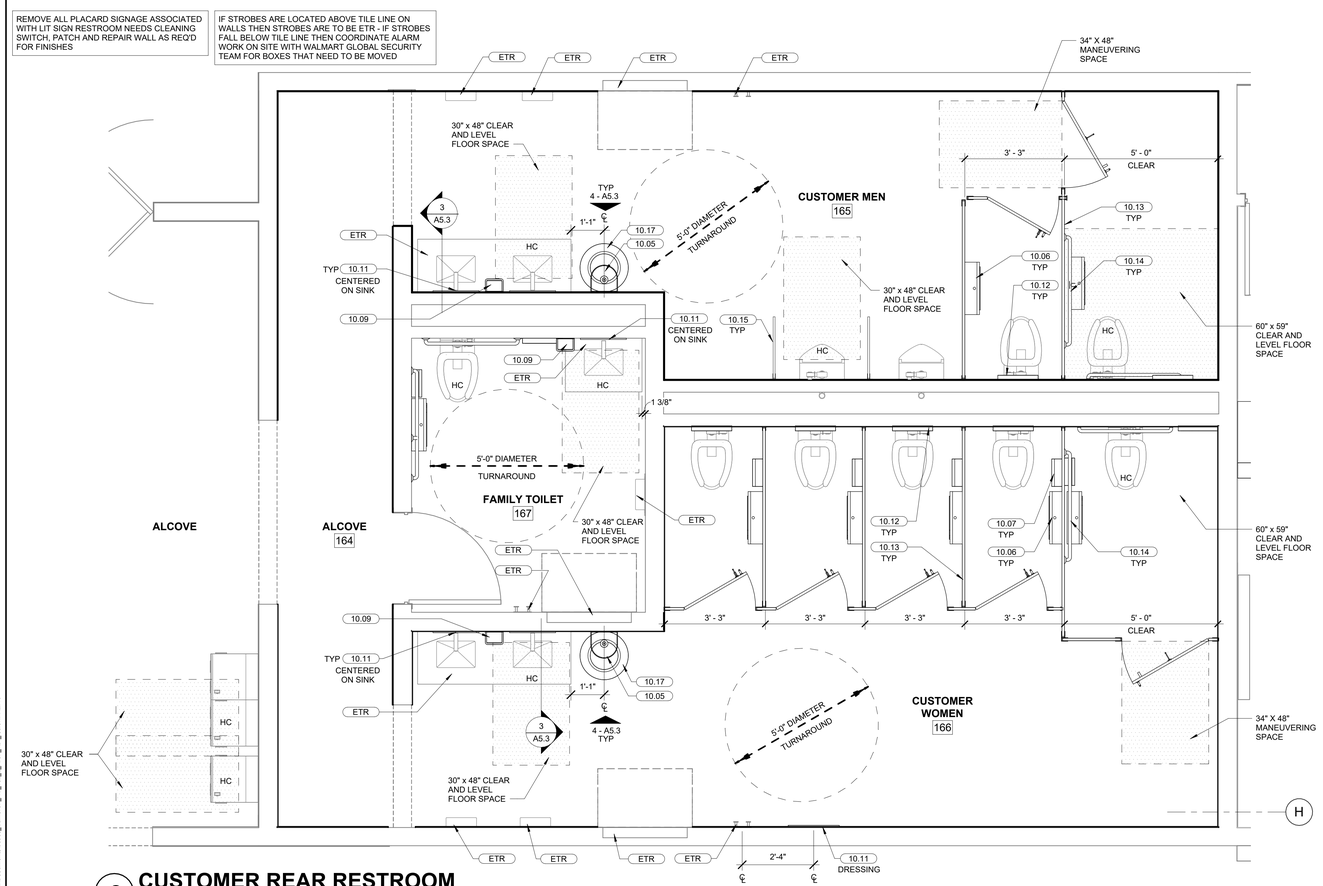
ACCESSIBLE STALL

3 STALL ELEVATION

1/2" = 1'-0"

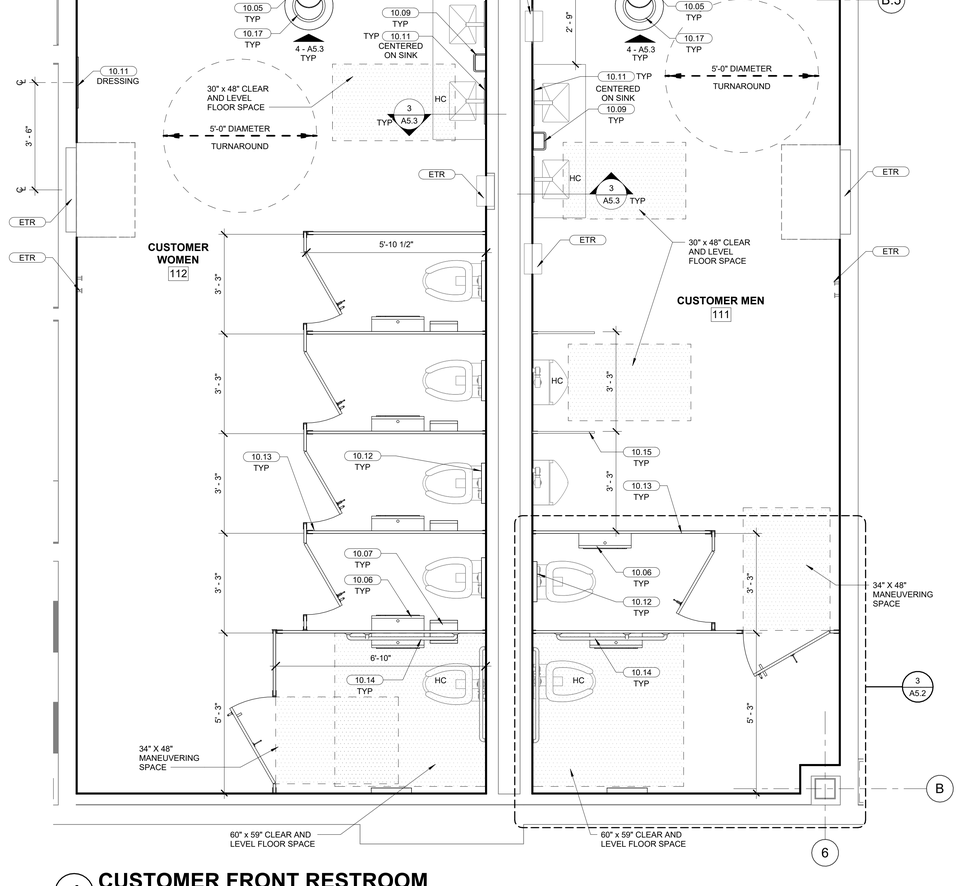
REMOVE ALL PLACARD SIGNAGE ASSOCIATED WITH LIT SIGN RESTROOM NEEDS CLEANING SWITCH, PATCH AND REPAIR WALL AS REQ'D FOR FINISHES

IF STROBES ARE LOCATED ABOVE TILE LINE ON WALLS THEN STROBES ARE TO BE ETR - IF STROBES FALL BELOW TILE LINE THEN COORDINATE ALARM WORK ON SITE WITH WALMART GLOBAL SECURITY TEAM FOR BOXES THAT NEED TO BE MOVED



2 CUSTOMER REAR RESTROOM

1/2" = 1'-0"



1 CUSTOMER FRONT RESTROOM

1/2" = 1'-0"

REMOVE ALL PLACARD SIGNAGE ASSOCIATED WITH LIT SIGN RESTROOM NEEDS CLEANING SWITCH, PATCH AND REPAIR WALL AS REQ'D FOR FINISHES

IF STROBES ARE LOCATED ABOVE TILE LINE ON WALLS THEN STROBES ARE TO BE ETR - IF STROBES FALL BELOW TILE LINE THEN COORDINATE ALARM WORK ON SITE WITH WALMART GLOBAL SECURITY TEAM FOR BOXES THAT NEED TO BE MOVED

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STIPULATION FOR REUSE

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CONSULTANTS

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STORE NO: 06958.1000
194-23-047 PROTO
JOB NUMBER: 182

ISSUE BLOCK

1	PR1	07/02/2025
7	CCD2	01/21/2025
9	CCD4	03/25/2026

CHECKED BY:	MMA
DRAWN BY:	WM
PROTO CYCLE:	07/26/24
DOCUMENT DATE:	01/08/25

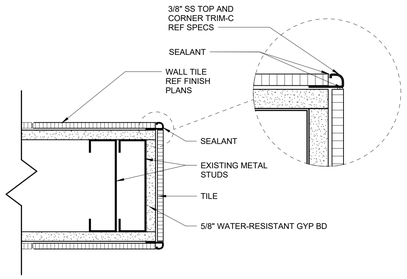
GABRIEL JOHN MASSA LICENSED ARCHITECT 9941 NEPTUNE, N.J.

3/25/2026

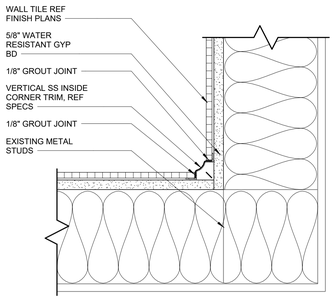
RESTROOM PLANS AND DETAILS

SHEET: A5.1

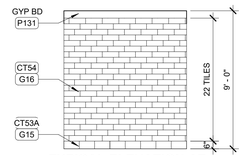
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8 OUTSIDE CORNER DETAIL
3" = 1'-0"



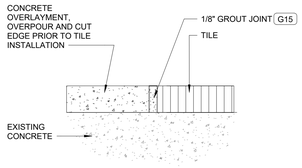
7 INSIDE CORNER SECTION
3" = 1'-0"



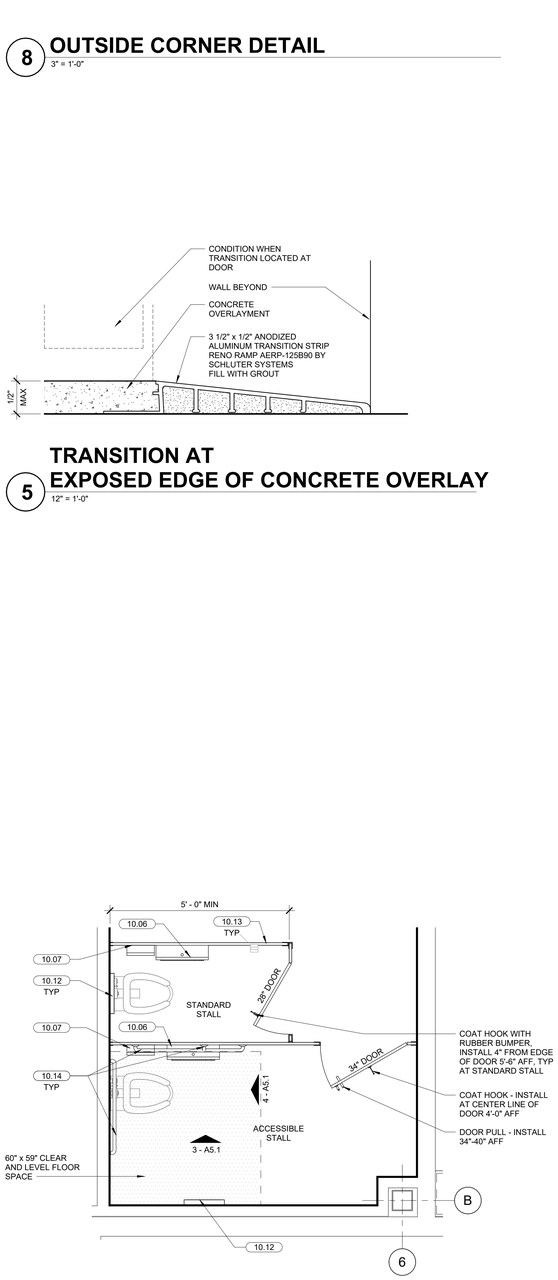
TYPICAL ELEVATION AT CUSTOMER RESTROOMS WITH 9'-0" CEILING HEIGHT

6 TYPICAL TOILET TILE ELEVATION
1/4" = 1'-0"

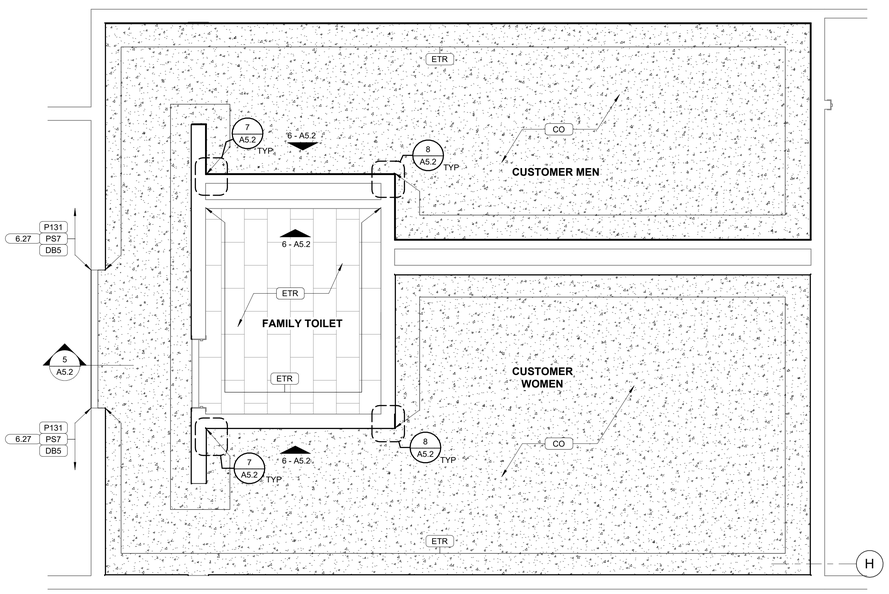
TRANSITION AT EXPOSED EDGE OF CONCRETE OVERLAY
5
12" = 1'-0"



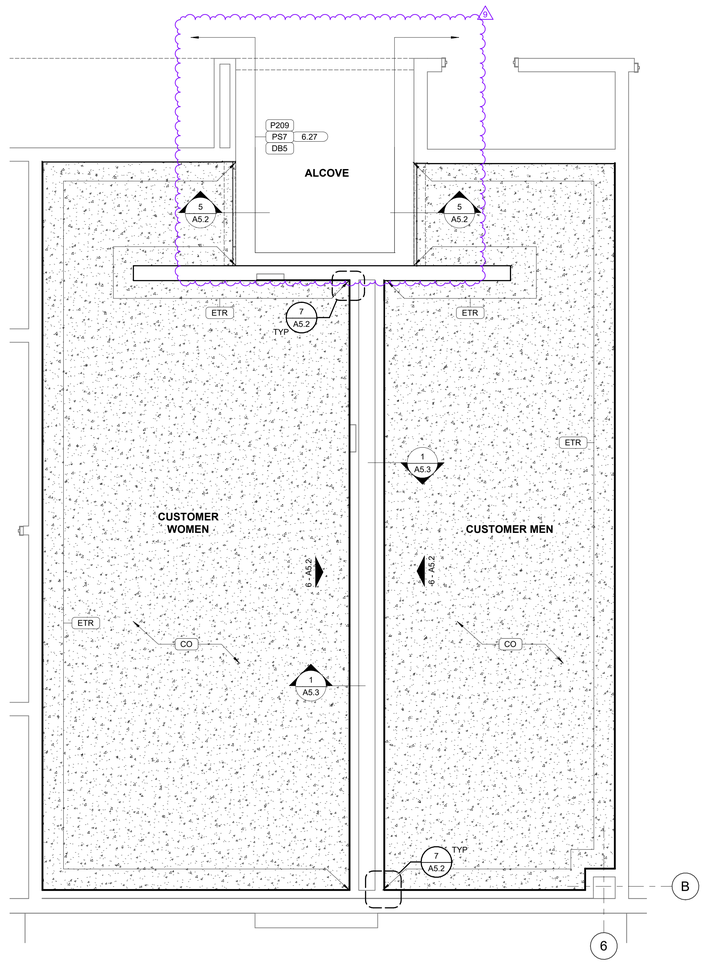
4 TRANSITION AT FLOORING
12" = 1'-0"



3 ACCESSIBLE STALL PLAN
1/2" = 1'-0"



2 CUSTOMER REAR RESTROOM FINISH PLAN
3/8" = 1'-0"



1 CUSTOMER FRONT RESTROOM FINISH PLAN
3/8" = 1'-0"

LEGEND

CONCRETE OVERLAY (CO)	REMOVE EXISTING PVC, VCT, TEXTURED VCT AND TILE - POLISH EC - REF SPECS
TILE	

COLOR LEGEND

CO	CONCRETE OVERLAYMENT
CT53A	CERAMIC TILE BASE (DARK GRAY)
CT54	CERAMIC WALL TILE (WHITE)
DB5	DURO BASE BLACK 5"
ETR	EXISTING TO REMAIN
G15	BLACK
G16	GRAY
P131	WHITE FLOUR SW#7102
P209	PASSIVE GRAY SW#7064
PS7	GRAY PATTERN

KEYNOTES

6.27	48" HIGH WAINSCOT WITH OUTSIDE CORNER TRIM
10.06	TOILET PAPER HOLDER
10.07	SANITARY NAPKIN DISPOSAL
10.12	TOILET SEAT COVER DISPENSER
10.13	TOILET PARTITIONS (REF SPECS FOR TYPE AND HEIGHT)
10.14	GRAB BARS

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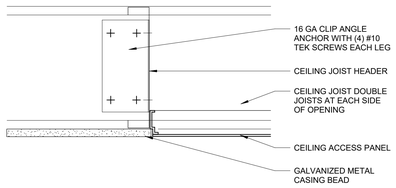


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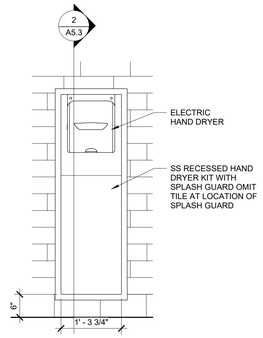
RESTROOM FLOOR FINISH AND DETAILS

SHEET: A5.2

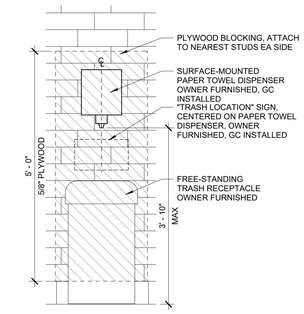
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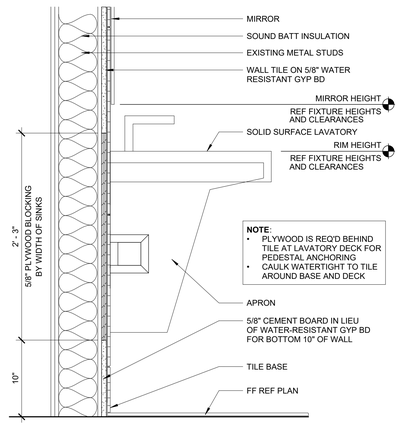
6 CEILING ACCESS PANEL
3" = 1'-0"



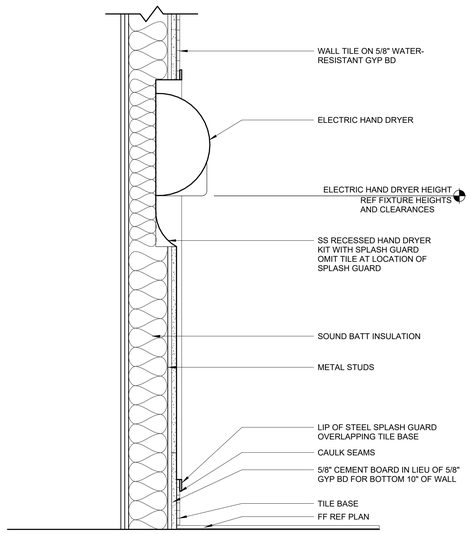
5 RECESSED HAND DRYER ELEVATION
3/4" = 1'-0"



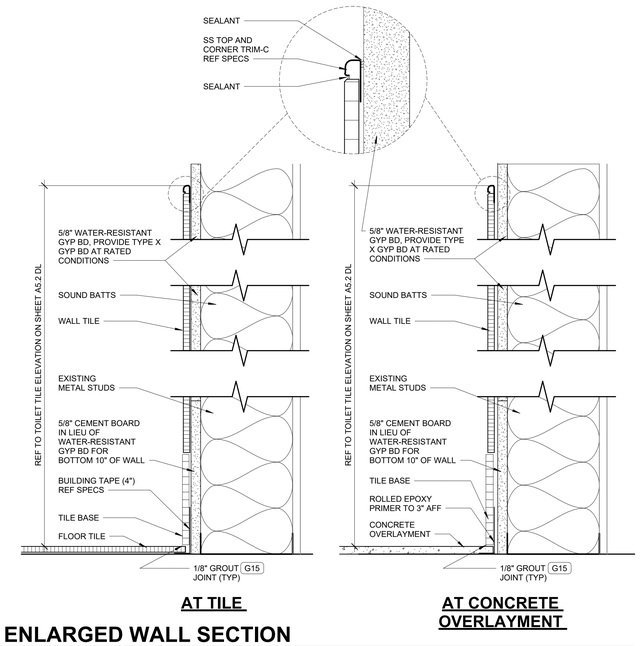
4 PAPER TOWEL/TRASH
3/4" = 1'-0"



3 SECTION AT LAVATORY
1 1/2" = 1'-0"



2 RECESSED HAND DRYER WITH SPLASH GUARD
1 1/2" = 1'-0"



1 ENLARGED WALL SECTION
3" = 1'-0"

COLOR LEGEND	
G15	BLACK

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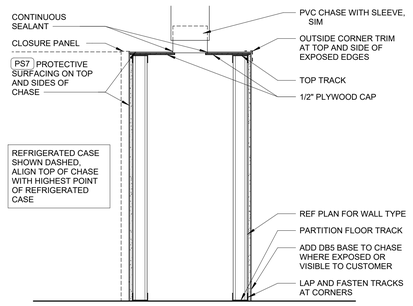
ISSUE BLOCK

SHEET NOTES

1. ALL ELECTRICAL WORK INCLUDING DATA AND POWER DISCONNECTION BY GC
2. REMOVAL AND REINSTALLATION OF POWER POLES BY GC, INSTALLATION OF POWER POLES BY GC
3. ALL REGISTERS TO BE REMOVED AND REINSTALLED OR INSTALLED BY WALMART
4. GC RESPONSIBLE FOR ALL ELECTRICAL WORK
5. GC RESPONSIBLE FOR ANCHORS AND ALL GONDOLA ANCHORAGE
6. GC TO REPAIR FLOOR AS REQUIRED AT LOCATIONS OF REMOVED REGISTERS AND FIXTURES
7. GC TO REF FIXTURE ANCHORAGE PLAN FOR ANCHORAGE REQUIREMENTS
8. GC TO INSTALL RAILING PER MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS FOR INSTALLATION AND ANCHORING

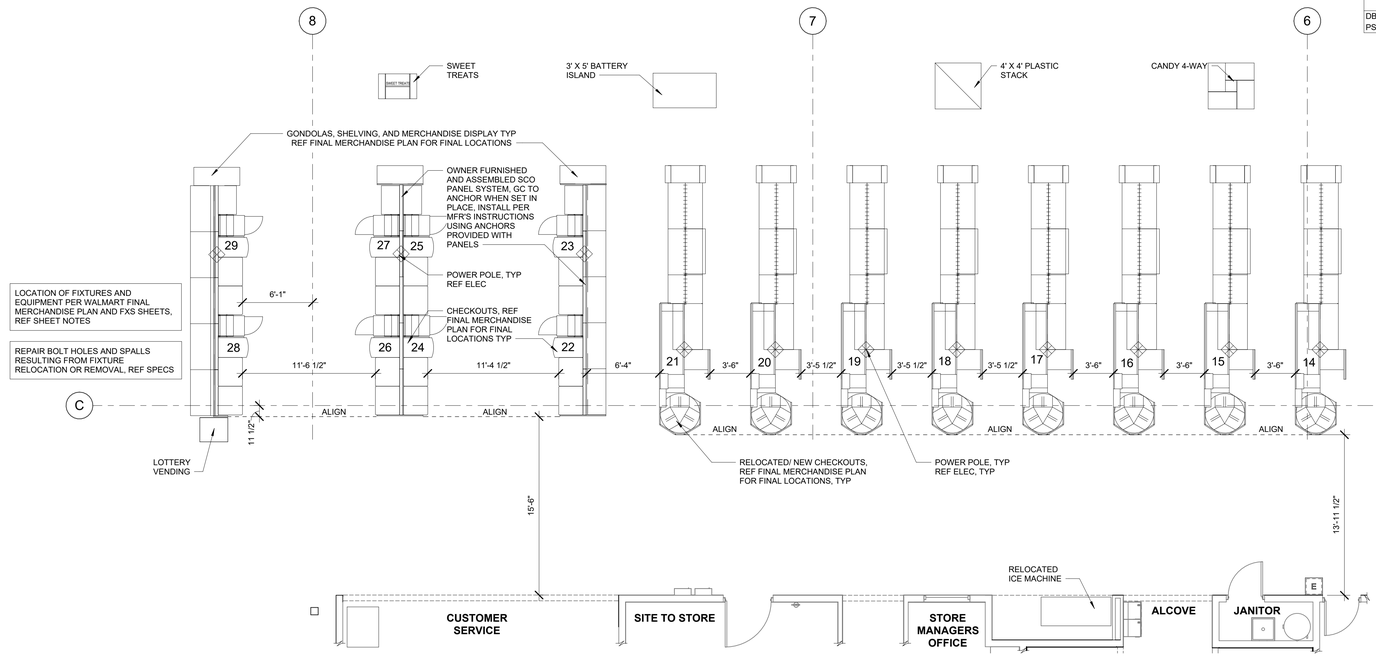
COLOR LEGEND

DB5	DURO BASE BLACK 5"
PS7	GRAY PATTERN



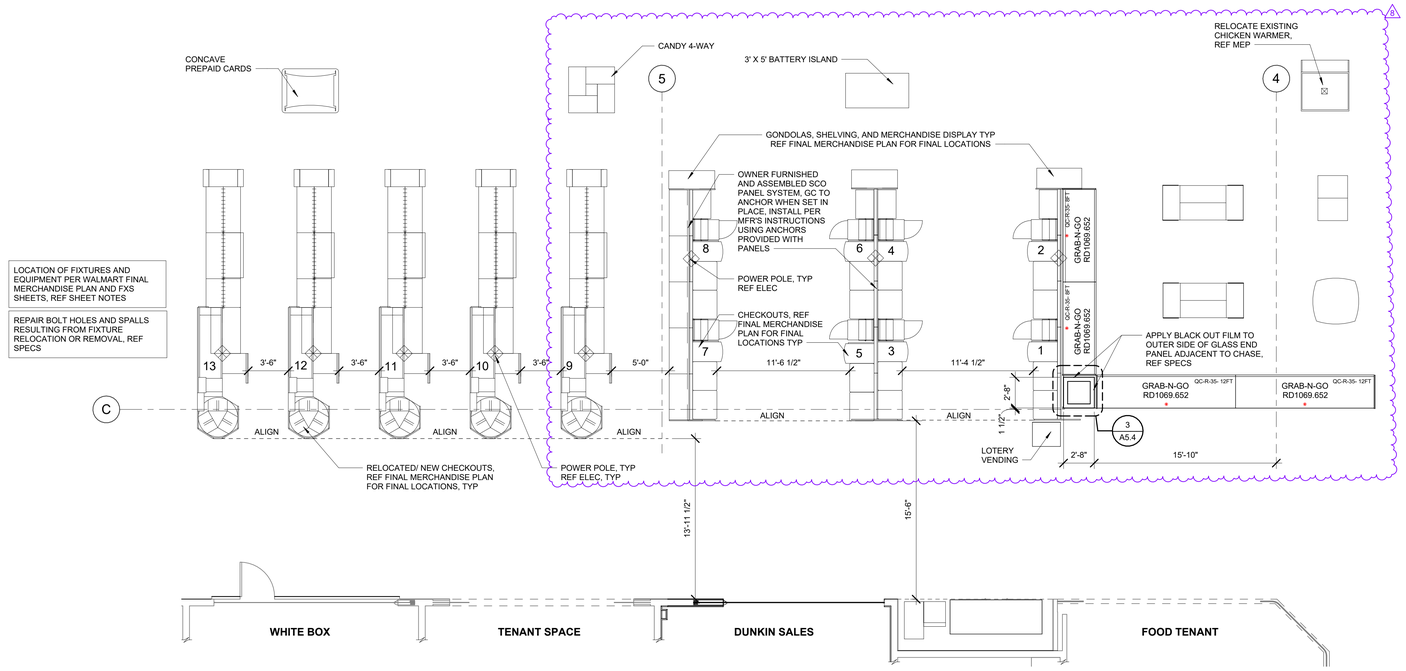
4 SECTION AT CHASE

3/4" = 1'-0"



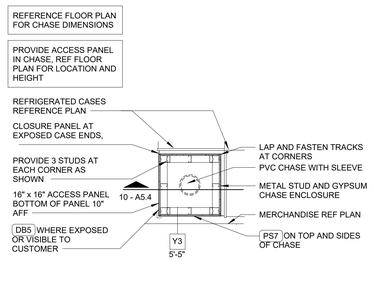
2 GM ENLARGED CHECKOUT PLAN

3/16" = 1'-0"



1 GR ENLARGED CHECKOUT PLAN

3/16" = 1'-0"



3 REFRIGERATION CHASE

3/8" = 1'-0"

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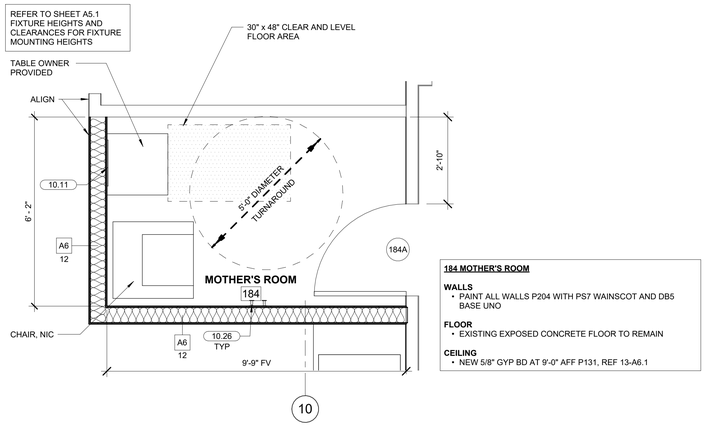
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02/12/2026

ENLARGED PLANS AND DETAILS

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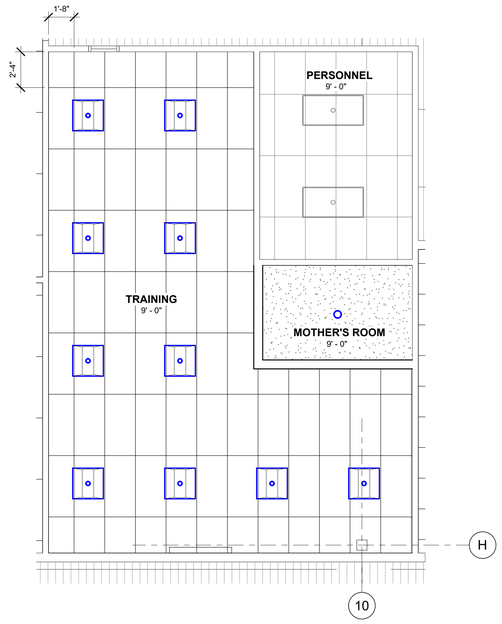
184 MOTHER'S ROOM

WALLS
- PAINT ALL WALLS P204 WITH PS7 WAINSCOT AND DB5 BASE UNO

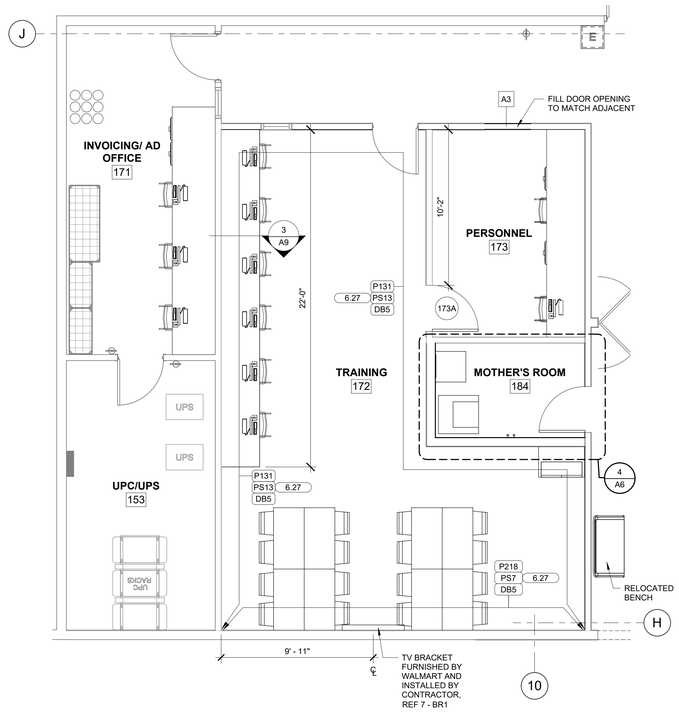
FLOOR
- EXISTING EXPOSED CONCRETE FLOOR TO REMAIN

CEILING
- NEW 5/8" GYP BD AT 9'-0" AFF P131, REF 13-A6.1

4 ENLARGED MOTHER'S ROOM
1/2" = 1'-0"



3 PARTIAL REFLECTED CEILING PLAN
1/4" = 1'-0"



172 TRAINING

WALLS
- REF 2-A6 FOR ACCENT WALL LOCATION AND FINSH
- GYP BD: PATCH AND REPAIR, PAINT P131, UNO
- WAINSCOT: REPLACE IF DAMAGED, INSTALL PS13 48" HIGH WAINSCOT WITH OUTSIDE CORNER TRIM AND DB5 BASE, UNO

FLOOR
- ETR, CLEAN OR POLISH

CEILING
- REF SHEET SA1 FOR CEILING SCHEDULE

REPAIR / REMOVE / REPLACE
- REPLACE DAMAGED OUTLETS, NON-ALMOND TO MATCH EXISTING COLOR, REPLACE ALMOND WITH WHITE
- REPLACE CUSTOMER VISIBLE ALMOND OUTLETS WITH WHITE
- REPLACE DAMAGED AND CUSTOMER VISIBLE COVER PLATES WITH BRUSHED STAINLESS STEEL, INCLUDING BLANK PLATES
- CLEAN OR REPLACE DAMAGED DIFFUSERS AND RETURNS AS REQ'D

153 UPC/UPS, 171 INVOICING/ AD OFFICE, 173 PERSONNEL

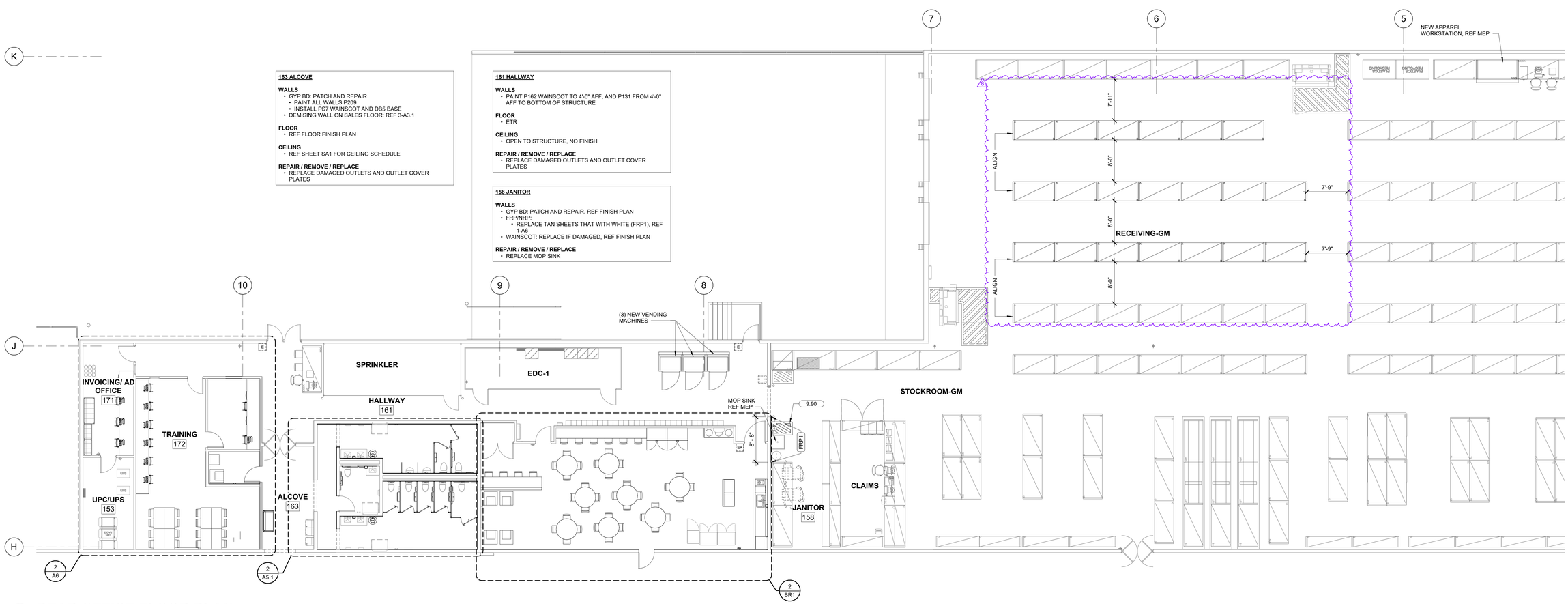
WALLS
- PAINT P131 TO CEILING

FLOOR
- ETR

CEILING
- REF SHEET SA1 FOR CEILING SCHEDULE

MILLWORK
- PAINT PIPE SUPPORT COUNTER LEGS P162
- REPLACE COUNTERTOP TO MATCH EXISTING IF DAMAGED

2 REAR OFFICE ENLARGED PLAN
1/4" = 1'-0"



163 ALCOVE

WALLS
- GYP BD: PATCH AND REPAIR
  - PAINT ALL WALLS P209
  - INSTALL PS7 WAINSCOT AND DB5 BASE
- DEMISING WALL ON SALES FLOOR: REF 3-A3.1

FLOOR
- REF FLOOR FINISH PLAN

CEILING
- REF SHEET SA1 FOR CEILING SCHEDULE

REPAIR / REMOVE / REPLACE
- REPLACE DAMAGED OUTLETS AND OUTLET COVER PLATES

161 HALLWAY

WALLS
- PAINT P162 WAINSCOT TO 4'-0" AFF, AND P131 FROM 4'-0" AFF TO BOTTOM OF STRUCTURE

FLOOR
- ETR

CEILING
- OPEN TO STRUCTURE, NO FINISH

REPAIR / REMOVE / REPLACE
- REPLACE DAMAGED OUTLETS AND OUTLET COVER PLATES

158 JANITOR

WALLS
- GYP BD: PATCH AND REPAIR. REF FINISH PLAN
- FRP/NRP:
  - REPLACE TAN SHEETS THAT WITH WHITE (FRP1), REF 1-A6
- WAINSCOT: REPLACE IF DAMAGED, REF FINISH PLAN

REPAIR / REMOVE / REPLACE
- REPLACE MOP SINK

1 REAR OFFICE FLOOR PLAN
1/8" = 1'-0"

KEYNOTES

6.27	48" HIGH WAINSCOT WITH OUTSIDE CORNER TRIM
9.90	FLOOR STRIPES. REF N1 FOR STRIPING CONDITIONS
10.11	MIRROR
10.26	COAT HOOK (INSTALL PLYWOOD BACKING)

COLOR LEGEND

DB5	DURO BASE BLACK 5"
FRP1	FIBERGLASS REINFORCED PLASTIC (WHITE)
P131	WHITE FLOUR SW#7102
P218	TRUE BLUE SW#7728
PS7	GRAY PATTERN
PS13	WALMART TRUE BLUE

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7	CCD2	01/21/2025
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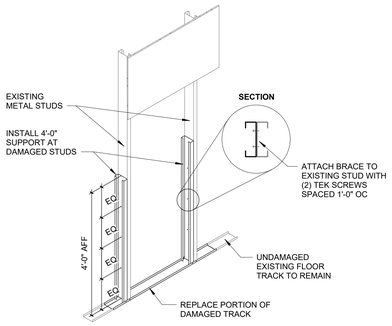


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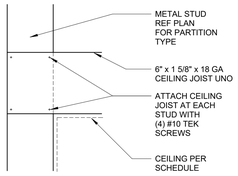
REAR OFFICE PLAN

SHEET: A6

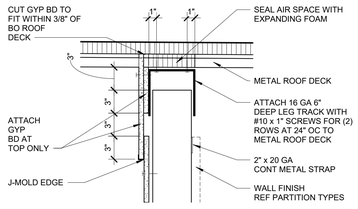
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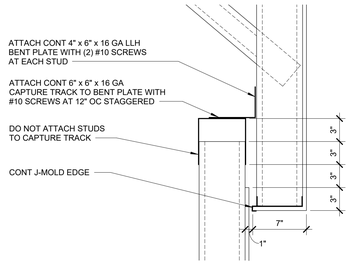
11 REPLACEMENT FRAMING DETAIL
1/2" = 1'-0"



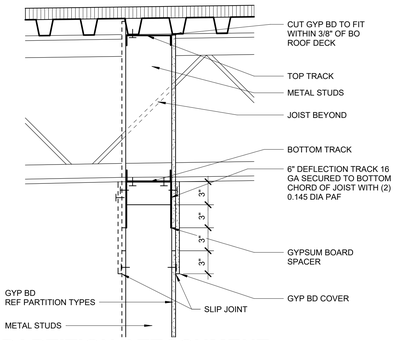
10 CEILING JOIST ATTACHMENT
1 1/2" = 1'-0"



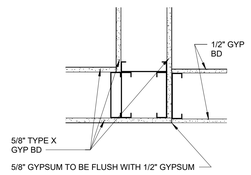
9 NON-RATED CAPTURE TRACK
1 1/2" = 1'-0"



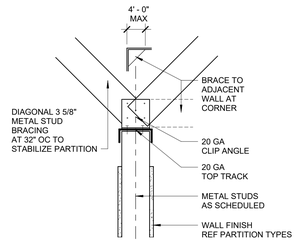
8 NONRATED OFFSET SLIP JOINT
1 1/2" = 1'-0"



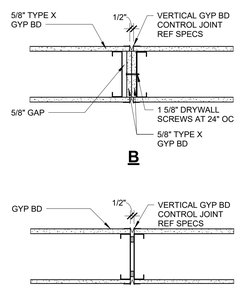
7 PARTITION ATTACHMENT AT PERPENDICULAR JOIST
1 1/2" = 1'-0"



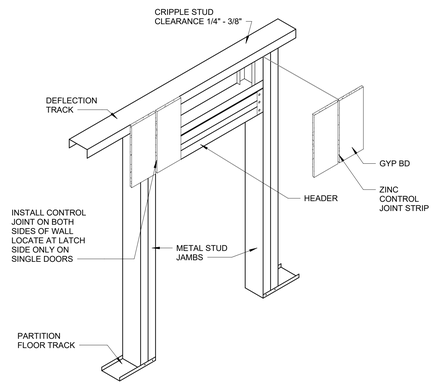
6 FIRE RATED CORNER FRAMING
1 1/2" = 1'-0"



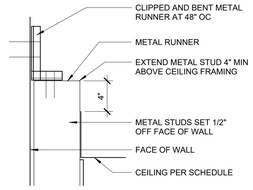
5 PARTITION BRACING
1 1/2" = 1'-0"



4 GYPSUM BOARD CONTROL JOINT
1 1/2" = 1'-0"



3 CONTROL JOINT AT DOOR JAMB
12" = 1'-0"

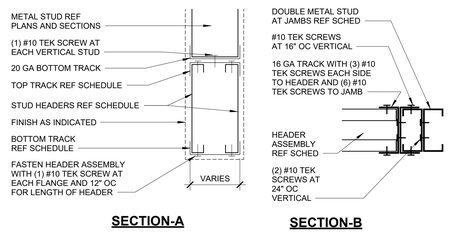


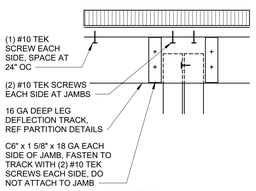
2 FURRING ATTACHMENT TO WALL
1 1/2" = 1'-0"

INTERIOR NON-LOAD BEARING PARTITION HEADER SCHEDULE

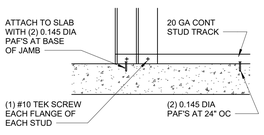
HEADER LENGTH	HEADER MEMBERS	HEADER TRACKS	JAMB STUDS
UP TO 4'-0"	(2) C3 5/8x1 1/4"x20 GA	(2) C3 5/8x20 GA	(2) C3 5/8x1 1/4"x20 GA
UP TO 10'-0"	(2) C6x1 5/8"x18 GA	(2) C6x18 GA	(2) C6x1 5/8"x18 GA
OVER 10'-0" AND UP TO 14'-0"	(2) C8x1 5/8"x18 GA	(2) C6x18 GA	(2) C6x1 5/8"x18 GA
OVER 14'-0" AND UP TO 18'-0"	(2) C8x1 5/8"x16 GA	(2) C6x16 GA	(2) C6x1 5/8"x16 GA
OVER 18'-0" AND UP TO 20'-0"	(2) C10x1 5/8"x16 GA	(2) C6x16 GA	(2) C6x1 5/8"x16 GA
OVER 20'-0" AND UP TO 24'-0"	(2) C12x1 5/8"x16 GA	(2) C6x16 GA	(2) C6x1 5/8"x16 GA

NOTES:
1. MAX WALL HEIGHT ABOVE HEADER ASSEMBLY IS 14'-9"
2. SPLICING OF HEADER AND JAMB MEMBERS IS NOT PERMITTED
3. MAX SPAN FOR OPENINGS TO RECEIVE INFILL BELOW HEADER IS 19'-0"
4. JAMBS NOT TO DECK ARE TO BE BRACED IN ACCORDANCE WITH PARTITION BRACING DETAILS, 3 5/8" JAMBS BEYOND 13'-4" ARE TO BE BRACED ABOVE OPENING AND SUCH THAT MAXIMUM UNBRACED LENGTH IS NOT EXCEEDED
5. FRAMING MEMBERS ARE NOT SIZED FOR VERTICAL LOAD OTHER THAN THAT OF PORTION OF WALL ABOVE OPENING

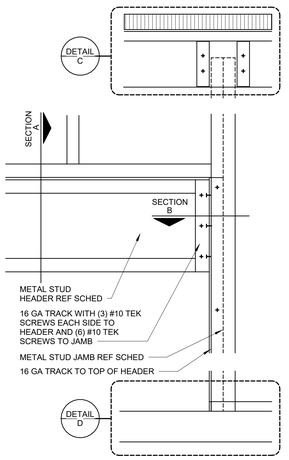




DETAIL-C



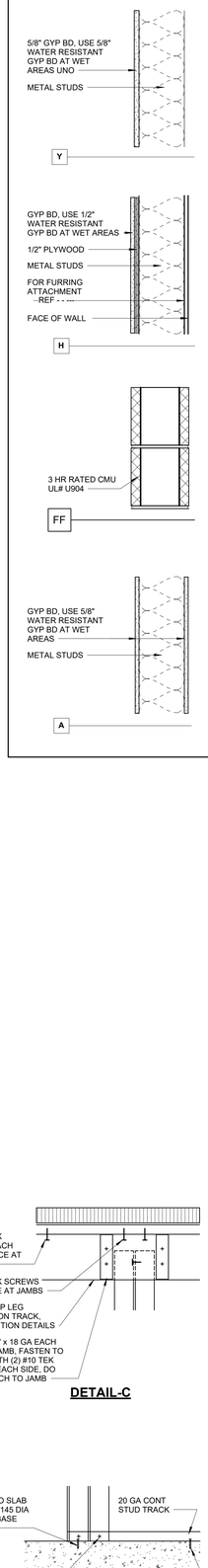
DETAIL-D



1 HEADER CONNECTION DETAIL
1 1/2" = 1'-0"

PARTITION TYPES

REFERENCE SIDE **OPPOSITE SIDE**



GENERAL NOTES

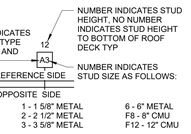
1. STUDS CONTINUE TO DECK UNO, REF CAPTURE TRACK DETAILS FOR DEFLECTION REQUIREMENTS
2. USE 1/2" GYP BD ON NON-RATED PARTITIONS UNO
3. USE 5/8" TYPE X GYP BD ON FIRE RATED PARTITIONS
4. CONTINUE FINISH MATERIAL TO A MIN OF 4" ABOVE TOP OF SUSPENDED CEILING SYSTEMS, UNO
5. WHERE NO CEILING IS INDICATED, AND AT RATED WALLS, CONTINUE FINISH TO DECK UNO, MAINTAIN CLEARANCE BELOW STRUCTURE PER CAPTURE TRACK DETAILS
6. STUD PARTITIONS REQUIRING A FIRE RATING OF ONE HOUR SHALL COMPLY WITH UL#U419, UL#U465 OR UL#U442
   - MASONRY PARTITIONS REQUIRING TWO HOUR FIRE RATING SHALL COMPLY WITH UL#U905
7. MAX HEIGHT OF NON LOAD BEARING WALL ABOVE HEADER TO BE 14'-9"
8. REF SPECS FOR LATERAL BRACING OF STUD PARTITIONS
9. PROVIDE ALTERNATING DIAGONAL METAL STUD BRACING ABOVE THE CEILING FOR INTERIOR WALL STUDS THAT DO NOT GO TO DECK, REF 5 - A6.1
10. WHERE NO CEILING IS SCHEDULED, STOP 1/2" PLYWOOD SUBSTRATE AT 10'-0" AFF
11. PROVIDE FIRE BLOCKING AT FLOOR AND ROOF LEVELS, CONCEALED SPACES BETWEEN STAIRWAY STRINGERS, PENETRATIONS IN FLOOR/CEILING ASSEMBLIES AND OTHER LOCATIONS AS REQ'D BY CODE
12. ROOMS THAT HAVE 5/8" IMPACT RESISTANT GYP BD TO 48" AFF SHALL HAVE 5/8" GYP BD ABOVE 48" AFF
13. WHEN MODIFYING OR BLDG ANY FIRE RATED PARTITIONS, ENSURE ALL PENETRATIONS AND JOINTS ARE SEALED IN ACCORDANCE WITH THE SPECS
14. PROPERLY SEAL ALL EXISTING PENETRATIONS IN EXISTING FIREWALLS TO ACHIEVE X HOUR RATING
15. WALLS WITH AN UNSUPPORTED LENGTH GREATER THAN THE LIMITS LISTED IN THE SPECS ARE TO BE BRACED ABOVE THE CEILING
16. FOR PARTITION WALL FRAMING DAMAGE, REF 11 - A6.1
17. BATT INSULATION AT EXTERIOR WALLS AND WHERE NOTED ON PLANS

PARTITION LEGEND

DETAIL:



PLAN:



*REF SPECS FOR STUD GA AND SPACING

- 1 HOUR RATED GYPSUM BOARD, 2 HOUR RATED CMU, UNO
- 3 HOUR RATED CMU
- NON-RATED GYPSUM BOARD WALL
- ACOUSTICAL INSULATION FULL WALL THICKNESS
- CHAIN LINK FENCE
- COOLER/FREEZER WALL
- 48" HIGH PLASTIC LAMINATE OR PROTECTIVE SURFACE WAINSCOT UNO
- EXISTING 1 HOUR RATED GYPSUM BOARD TO REMAIN
- EXISTING PARTITION OR WALL TO REMAIN
- MASONRY WALL
- EXISTING WALL TO BE DEMOLISHED
- EXISTING CHAIN LINK FENCE
- EXISTING 48" HIGH PLYWOOD WAINSCOT WITH 2x8 WOOD BASE
- CHAIR RAIL FURNISHED BY WALMART, INSTALLED BY GC
- NON-RATED GYPSUM BOARD WALL (GROCERY PREP AREAS) WITH SILL SEALER
- MODULAR WALL
- DUST WALL
- DUST CURTAIN

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CONSULTANTS

Walmart
CAMERON, NC
2800 NC HWY 24-87
STORE NO: 06958.1000
JOB NUMBER: 194-23-047 PROTO: 182

ISSUE BLOCK

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DOCUMENT DATE:	01/08/25

GABRIEL JOHN MASSA
LICENSED ARCHITECT
9941
NEPTUNE, NJ
01/08/2025

PARTITION TYPES AND WALL DETAILS

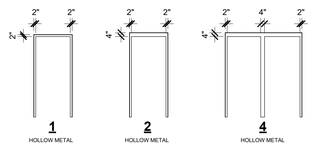
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DOOR AND FRAME SCHEDULE

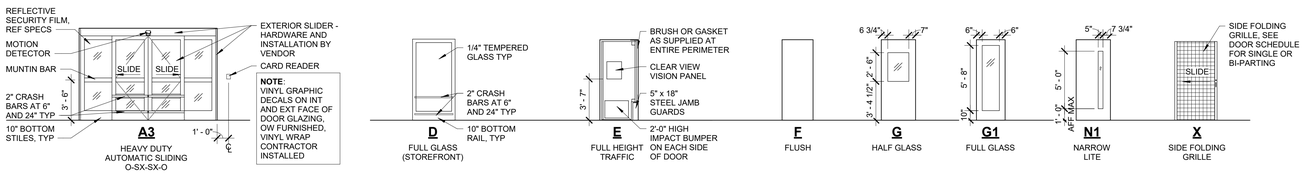
DETAIL REFERENCES ARE TO SHEET A8.1 UNO, REF SPECS FOR DOOR HARDWARE

		DOOR							FRAME			DETAIL					
						NOMINAL SIZE											
MARK	ROOM NAME	NEW/ ETR	TYPE	MATERIAL	QTY	WIDTH	HEIGHT	GLASS	NEW/ ETR	TYPE	MATERIAL	HEAD	JAMB	THRESHOLD	FIRE RATING (MIN)	NOTES	MARK
106A	RETURN STORAGE	NEW	F	HM-STL	1	3'-0"	7'-0"	---	NEW	2	HM-STL	8	4	7	---	2, 9, 27	106A
151E	BREAKROOM	NEW	F	HDPE	1	3'-0"	7'-0"	---	NEW	1	HM-STL	5	1	---	---	2, 9, 10, 27, 28, 45	151E
173A	PERSONNEL	NEW	F	HDPE	1	3'-0"	7'-0"	---	NEW	1	HM-STL	5	1	---	---	2, 9, 10, 27, 28, 45	173A
184A	MOTHER'S ROOM	NEW	F	HDPE	1	3'-0"	7'-0"	---	NEW	1	HM-STL	5	1	---	---	27, 28	184A
300G	PHARMACY	NEW	N1	HDPE	1	3'-0"	7'-0"	TEMPERED	NEW	1	HM-STL	5	1	---	---	28, 48	300G
303B	HEALTH SERVICES	NEW	N1	HDPE	1	3'-0"	7'-0"	TEMPERED	NEW	1	HM-STL	5	1	---	---	28, 46, 48	303B
303C	HEALTH SERVICES	NEW	N1	HDPE	1	3'-0"	7'-0"	TEMPERED	NEW	1	HM-STL	5	1	---	---	28, 47, 48	303C
604A	CUSTOMER SERVICE	ETR	G	HM-STL	1	4'-0"	7'-0"	TEMPERED	ETR	1	HM-STL	---	---	---	---	2, 9, 27	604A
700A	OPTICAL SALES	NEW	X	AL	PR	20'-10"	9'-0"	---	---	---	---	10	9	---	---	39	700A
711A	VESTIBULE	ETR	D	ALUM	1	3'-0"	7'-0"	TEMPERED	ETR	1	ALUM	---	---	---	---	2	711A
711C	OPTICAL SALES	ETR	G1	HM-STL	1	3'-0"	7'-0"	TEMPERED	ETR	1	HM-STL	---	---	---	---	3	711C
803A	DUNKIN SALES	NEW	X	AL	1	14'-0"	9'-0"	---	---	---	---	10	9	---	---	39	803A
805A	BACK OF HOUSE	NEW	F	HM-STL	1	3'-0"	7'-0"	---	NEW	2	HM-STL	5	1	---	---	27	805A
946A	PICKUP STORAGE	NEW	A3	ALUM	4	12'-0"	8'-0"	TEMPERED	NEW	---	ALUM	6	2	3	[---]	26, 38, 40, 41, 45	946A
946B	PICKUP STORAGE	NEW	E	PLASTIC	PR	3'-0"	9'-0"	ACRYLIC	NEW	---	STL-BP	13	12	---	---	27, 35	946B
995A	HALLWAY	NEW	F	HM-STL	2	3'-0"	7'-0"	---	ETR	4	HM-STL	15	14	13	---	6, 15, 23	995A



2 FRAME TYPES

3/16" = 1'-0"



1 DOOR TYPES

3/16" = 1'-0"

DOOR SCHEDULE NOTES

1. BUTTS OR HINGES
2. ALARM OR EXIT DEVICE AS SPECIFIED
3. LATCH OR LOCK SET AS SPECIFIED
4. PUSH AND/OR PULL
5. INSTALL AUTOMATIC CLOSER
6. REMOVE DOOR CLOSER, PATCH AS NEEDED
7. ARMOR PLATE AND/OR KICK PLATE
8. STOP, HOLDER, OR ELECTROMAGNETIC DOOR HOLDER
9. THRESHOLD
10. INSTALL CONTINUOUS GEARED HINGE
11. DOOR COORDINATOR
12. ELECTROMAGNETIC LOCK
13. LOCK GUARD
14. ONE-WAY VIEWER
15. INSTALL 5"X20" WINDOW IN DOOR
16. INSTALL FLEXIBLE STRIP CURTAIN
17. INSTALL SECTIONAL DOOR TRACK RETURN AT MAXIMUM HEIGHT AND AS CLOSE TO ROOF STRUCTURE AS ALLOWABLE BY MANUFACTURER
18. FULLY GASKETED FOR NEUTRALIZATION
19. PROVIDE 1" CLEARANCE BETWEEN EDGE OF STRIKE SIDE OF DOOR AND ADJACENT CASEWORK
20. COORDINATE INSTALLATION OF SIGNAGE WITH DOOR MANUFACTURER: 1" HIGH LETTERS IN CONTRASTING COLORS TO BACKGROUND, TEXT TO READ "THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED"
21. REMOVE EXISTING DOOR AND HARDWARE EXISTING FRAME TO REMAIN, INSTALL HINGE FILLER PLATE AND STRIKE FILLER PLATE IN HOLLOW METAL FRAME
22. FLEXIBLE TRAFFIC DOOR COLOR TO BE BLACK PAINT DOOR FRAME P36, DO NOT PAINT STAINLESS STEEL FRAMES
23. INSTALL HINGE FILLER PLATE PRIOR TO INSTALLATION OF CONTINUOUS HINGE
24. NOT USED
25. SHELF ON DOOR TO BE STRIPPED, CLEANED, AND REFINISHED
26. SIGNAGE: PROVIDE 1" HIGH LETTERS IN CONTRASTING COLORS TO BACKGROUND, TEXT TO READ "IN EMERGENCY PUSH TO OPEN"
27. DOOR AND DOOR FRAME SHALL BE OWNER FURNISHED, GC INSTALLED, REF SPECS
28. DOOR TO BE FACTORY FINISH, DO NOT PAINT
29. NOT USED
30. NOT USED
31. NOT USED
32. NOT USED
33. NOT USED
34. CONTAINER AND DOOR MANUFACTURERS TO COORDINATE INSTALLATION OF DOORS
35. DOOR TO BE FACTORY FINISHED BLACK COLOR - DO NOT PAINT
36. 32" MIN CLEAR WORTH OF PASSAGEWAY AFTER INSTALLATION
37. NOT USED
38. PREFINISHED DOOR AND HARDWARE FURNISHED AND INSTALLED BY VENDOR
39. DOOR AND HARDWARE FURNISHED, INSTALLED, AND PAINTED BY GC
40. AUTOMATIC OPENER INSTALLED BY VENDOR
41. CARDREADER AND STAND ALONE ALARM INSTALLED BY VENDOR
42. INSTALL STOREROOM LOCK
43. DOOR BY IPB MANUFACTURER
44. IPB AND DOOR MANUFACTURERS TO COORDINATE INSTALLATION OF DOORS
45. NOMINAL SIZE FOR HEIGHTS AND WIDTHS ARE DETERMINED BY PACKAGE HEIGHT AND WIDTH FROM DOOR VENDOR
46. PRE-INSTALLED FULL FROST BY MODULAR PANEL MANUFACTURER, 3M FILM FASARA MILKY MILKY SAN MARINO (SH2MAMM)
47. PRE-INSTALLED FROST BY MODULAR PANEL MANUFACTURER, 3M FILM FASARA MILKY MILKY SAN MARINO (SH2MAMM). 12" CLEAR BAND AT TOP AND BOTTOM
48. DOOR FRAMES AND DOORS ARE PRE-FINISHED BY MODULAR PANEL MANUFACTURER. FRAMES ARE PRE-INSTALLED IN PRE-MANUFACTURED WALL. GC TO INSTALL OWNER FURNISHED DOOR SLABS AND CONT. SEALANT AT FRAMES
49. NOT USED
50. NOT USED
51. NOT USED
52. NOT USED
53. NOT USED
54. CUSTOMER FACING PUSH-TO- EXIT DOOR LOCK RELEASE HARDWARE AND ACCESSORIES OWNER PROVIDED, GC INSTALLED, REF SPECS.
55. DOOR SHALL BE OWNER FURNISHED, GC INSTALLED

DOOR MATERIAL KEY

MARK	DESCRIPTION
ACRYL	ACRYLIC
AL	ALUMINUM LINK
ALUM	ALUMINUM
CL	CHAIN LINK
HDPE	RECYCLED HDPE (PLASTIC)
HM-STL	HOLLOW METAL - STEEL
OM	ORNAMENTAL METAL
PLAST	PLASTIC
STL	STEEL
STL-P	STEEL PIPE
STL-BP	STEEL BENT PLATE
TEMP	TEMPERED

GENERAL DOOR NOTES

1. ALL DOORS SCHEDULED AS NEW ARE TO RECEIVE COMPLETE NEW HARDWARE SETS AS LISTED IN SPECS
2. REFERENCE ELEVATIONS ON A2 FOR EXTERIOR DOOR COLORS
3. SCHEDULED WIDTH AND HEIGHT INDICATE FINISHED OPENING SIZE AT ALL OVERHEAD AND COILING DOOR LOCATIONS
4. SCHEDULED WIDTH AND HEIGHT INDICATE ROUGH OPENING SIZE AT ALL AUTOMATIC SLIDING DOOR LOCATIONS
5. INSTALL DRIP CAP AT ALL NEW EXTERIOR DOORS
6. REPLACE ALL EXTERIOR HM DOOR WEATHERSTRIPPING AND CLEAN THRESHOLDS

GENERAL FINISH NOTES

1. PAINT ALL METAL DOOR FRAMES VISIBLE TO CUSTOMER, EXCEPT DOORS IN CMU WALLS, WITH EPOXY PAINT
   - PREP SURFACE TO BE PAINTED PER SPECS
2. PAINT ALL HM DOORS P162 UNO
3. PAINT ALL HM FRAMES LOCATED IN PAINTED WALLS P162 UNO
4. AT ROOMS SCHEDULED TO RECEIVE PAINT: OMIT PAINT AT WALLS CONCEALED BY HALF-GONDOLAS, WALL STANDARDS OR WAREHOUSE RACKING WITH PEG-BOARD BACKING
   - AT WALL STANDARDS, GONDOLAS AND WAREHOUSE RACKING WITHOUT PEG-BOARD BACKING, PAINT WALL TO BASE
5. AT EXPOSED PAINTED STRUCTURE OR DECK, PAINT CONDUIT, DUCTWORK AND FIRE SPRINKLER PIPING (FIRE SPRINKLER HEADS TO REMAIN UNPAINTED) TO MATCH ADJACENT STRUCTURE OR DECK
6. FOR PROTECTIVE WALL SURFACING WAINSCOT, INSTALL OUTSIDE CORNER TRIM, REF SPECS
7. WHERE PROTECTIVE SURFACING WAINSCOT IS TO BE INSTALLED, REMOVE EXISTING LAMINATE AND/OR FINISHES TO BASE SUBSTRATE PRIOR TO INSTALLATION OF PROTECTIVE SURFACING OVER EXISTING IS NOT ACCEPTABLE, NO EXCEPTIONS
8. EXISTING TRAFFIC DOOR FRAMES TO BE PAINTED P36 DO NOT PAINT STAINLESS STEEL DOOR FRAMES

FINISH KEY

REF SPECS FOR EXACT COLORS REQUIRED

MARK	FINISH	COLOR	DESC.
ACT1-A	ACOUSTICAL CEILING TILE	WHITE	24"x48"x5/8"
ACT1-B	ACOUSTICAL CEILING TILE	WHITE	24"x24"x5/8"
ACT2-A	ACOUSTICAL CEILING TILE	WHITE	24"x48"x5/8" VINYL FACED NON-PERFORATED
ACT2-B	ACOUSTICAL CEILING TILE	WHITE	24"x24"x5/8" VINYL FACED NON-PERFORATED
ACT3	ACOUSTICAL CEILING TILE	WHITE	24"x48"
ACT4	ACOUSTICAL CEILING TILE	WHITE	24"x48"
ACTG	ACOUSTICAL CEILING GRID	WHITE	
B6	PLASTIC BASE	BLACK	6"x1/4"
B9	PLASTIC BASE	BLACK	4"x1/4"
B10	PLASTIC BASE OUTSIDE CORNER	BLACK	
C1	CUSHION BACK TILE CARPET		
C3	CUSHION BACK TILE CARPET	WALNUT	
CC	CONCRETE CURB		
CO	CONCRETE OVERLAY		
CT2	ENTRY TILE	RED	12" x 24" x 3/8"
CT43	PORCELAIN WALL TILE	BEIGE	12" x 12" x 3/8"
CT44	PORCELAIN FLOOR TILE	GRAY	12" x 12" x 3/8"
CT53	FLOOR TILE	DARK GRAY	12 x 24
CT53A	TILE BASE	DARK GRAY	6 x 12
CT53B	COVE BASE	DARK GRAY	6 x 6
CT54	WALL TILE	WHITE	4 x 12 LINEAR
DB5	DURO BASE	BLACK	5"
DB6	DURO BASE	BLACK	6"
DB10	DURO BASE	BLACK	10"
DP1	ALUMINUM DIAMOND (TREAD) PLATE	---	OWNER FURNISHED
ETR	EXISTING TO REMAIN		
FRP1	FIBERGLASS REINFORCED PLASTIC	WHITE	FRP WALL PANEL
FRP2	FIBERGLASS REINFORCED PLASTIC	BEIGE	FRP WALL PANEL
FRP5	FIBERGLASS REINFORCED PLASTIC	ALMOND	FRP WALL PANEL
FT1	FAUX SUBWAY TILE	WHITE	
G1	GROUT	DARK GRAY	
G2	GROUT	DARK GRAY	
G3	GROUT	LIGHT TAN	
G4	GROUT	GRAY	
G7	GROUT	BROWN	
G15	GROUT	BLACK	
G16	GROUT	GRAY	
HRC1	HEAT RESISTANT COATING	TO MATCH COPPER BROWN BY BERRIDGE	
HRC4	HEAT RESISTANT COATING	MATCH DARK GRAY	
ICC	INTEGRAL COLORED CONCRETE	BROWN	
LVT2P	PLANK FLOORING	LIGHT ASH WOODGRAIN	
NRP1	NON-FIBERGLASS REINFORCED PLASTIC	WHITE	NRP WALL PANEL
NRP2	NON-FIBERGLASS REINFORCED PLASTIC	ALMOND	NRP WALL PANEL
P3	PAINT	"LOYAL BLUE" #6510	
P5	PAINT	"SAFETY YELLOW" OSHA STANDARD	
P5E	PAINT	SAFETY YELLOW	
P8	PAINT	"PURE WHITE" # 7005	
P14	PAINT	"GOLDENROD" # 6677	
P16	PAINT	"SOFTWARE" #7074	
P21E	PAINT	SAFETY RED	
P33E	PAINT	CREAM	
P36	PAINT	"DOMINO" #6989	
P36E	PAINT	BLACK	
P40	PAINT	"GARDENIA" #6665	
P49E	PAINT	DARK GRAY	
P76	PAINT	"WALMART BLUE" #076	
P76U	PAINT	WALMART BLUE (URETHANE-LIKE)	
P93	PAINT	"TAMARIND" #7538	
P100	PAINT	"NOTABLE HUE" #6521	
P102	PAINT	"BEACH HOUSE" #7518	
P107	PAINT	"STRAW HARVEST" #7698	
P112	PAINT	"BUTTERFIELD" #6676	
P131	PAINT	"WHITE FLOUR" #7102	
P134E	PAINT	LIGHT GRAY	
P135E	PAINT	MEDIUM GRAY	
P140E	PAINT	WHITE	
P159	PAINT	"CASA BLANCA" #7571	
P162	PAINT	"PEPPERCORN" #7674	
P162E	PAINT	BLACK GRAY	
P163	PAINT	"TURQUISH" #6939	
P164	PAINT	"ESSENTIAL GRAY" #6002	
P204	PAINT	"FESTOON AQUA" #0019	
P208	PAINT	"CANDID BLUE" SW#6953	
P209	PAINT	"PASSIVE GRAY" #7064	
P218	PAINT	TRUE BLUE	
P219	PAINT	EVERYDAY BLUE SW #297	
P220	PAINT	SKY BLUE SW #9441	
P222	PAINT	BENTONVILLE BLUE SW #2757	
PF4	LEAD-COTE	METALLIC	
PL3	PLASTIC LAMINATE	"ORGANIC COTTON" WILSONART 4945-38	
PL4	PLASTIC LAMINATE	MAPLE	
PL6	PLASTIC LAMINATE	LIGHT TAN	
PL11	PLASTIC LAMINATE	NORTH SEA GRAY	
PL15	PLASTIC LAMINATE	BROWN	
PL20	PLASTIC LAMINATE	TAN	
PL30	PLASTIC LAMINATE	"STEEL MESH" WILSONART 4879	
PL31	PLASTIC LAMINATE	"GREY" WILSONART 1500-60	
PS1	PROTECTIVE SURFACE	WALMART MED BLUE IMPACT SPECIALTIES	
PS4	PROTECTIVE SURFACE	"GLOWING EMBER" IMPACT SPECIALTIES	
PS5	PROTECTIVE SURFACE	"FRESH LINEN" IMPACT SPECIALTIES	
PS6	PROTECTIVE SURFACE	YELLOW	
PS7	PROTECTIVE SURFACE	"GRAY PATTERN"	
PS10	PROTECTIVE SURFACE	"BLACK"	
PS11	PROTECTIVE SURFACE	"CHARCOAL"	
PS13	PROTECTIVE SURFACE	TRUE BLUE	
PVC1	PVC PLANK FLOORING	WOODGRAIN	
QT3	QUARRY TILE	GRAY	6"x6" ABRASIVE
QT31	QUARRY TILE	RED	6"x6" ABRASIVE
RRF3	RECYCLED RUBBER FLOORING	GRAY	
SCB1	SANITARY COVE BASE	RED	8" H ANTIMICROBIAL PLASTIC FOR QT
SCB2	SANITARY COVE BASE	GRAY	8" H ANTIMICROBIAL PLASTIC FOR QT
SCB4	SANITARY COVE BASE	RED	8" H ANTIMICROBIAL PLASTIC
SCB5	SANITARY COVE BASE	GRAY	8" H ANTIMICROBIAL PLASTIC
SS	STAINLESS STEEL		
SST1	SOLID SURFACE		
TC	TEXTURED CONCRETE		
VCT9	VINYL COMPOSITION TILE	WHITE	12"x12"x1/8"
VCT11	VINYL COMPOSITION TILE	BEIGE	12"x12"x1/8"
VCT20	VINYL COMPOSITION TILE	GRAY	12"x12"x1/8"
WB	2x8 WOOD BASE		
WB10	2x10 WOOD BASE		
WG	PLASTIC WALL GUARD	BLACK OR GRAY	

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STIPULATION FOR REUSE

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CONSULTANTS

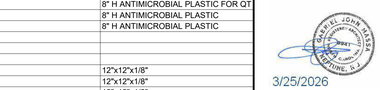
Walmart

CAMERON, NC
2800 NC HWY 24-87
STORE NO: 06958.1000
JOB NUMBER: 194-23-047 PROTO 182

ISSUE BLOCK

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5	CCD1	12/04/2025
7	CCD2	01/21/2025
9	CCD4	03/25/2026

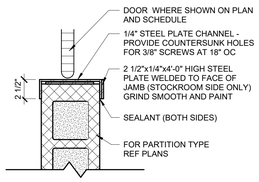
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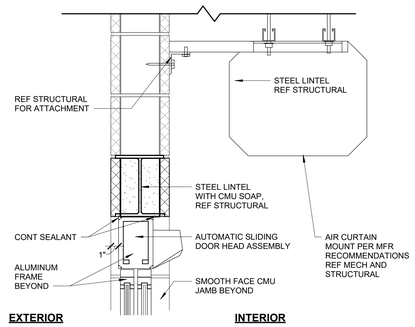
DOOR SCHEDULE AND FINISHES

SHEET: A8

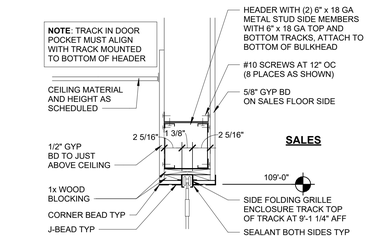
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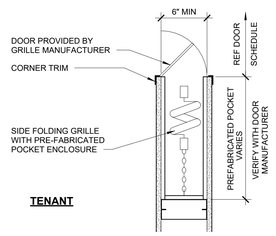
12 JAMB @ TRAFFIC DOOR
1 1/2" = 1'-0"



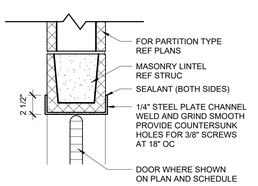
11 AIR CURTAIN AT JAMB MOUNTED DOOR
1 1/2" = 1'-0"



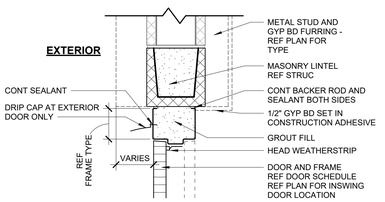
10 HEAD @ FOLDING GRILL
1 1/2" = 1'-0"



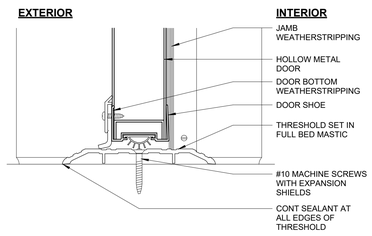
9 JAMB
1 1/2" = 1'-0"



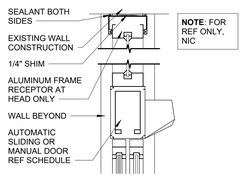
13 HEAD @ TRAFFIC DOOR
1 1/2" = 1'-0"



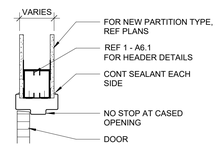
8 HEAD
1 1/2" = 1'-0"



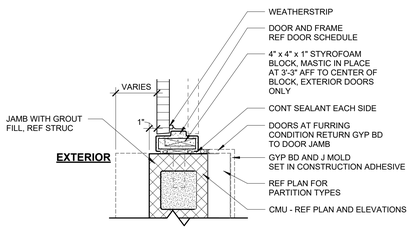
7 THRESHOLD
3" = 1'-0"



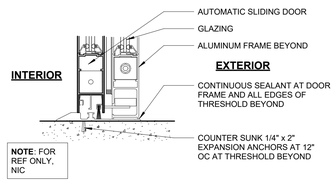
6 HEAD
1 1/2" = 1'-0"



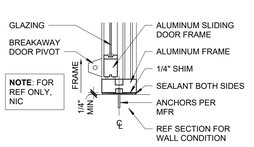
5 HEAD
1 1/2" = 1'-0"



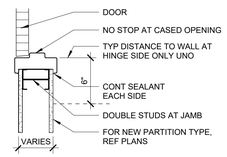
4 JAMB
1 1/2" = 1'-0"



3 THRESHOLD
3" = 1'-0"



2 JAMB
1 1/2" = 1'-0"



1 JAMB
1 1/2" = 1'-0"

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2800 NC HWY 24-87
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GABRIEL JOHN MASSA
NEPTUNE, NJ
01/08/2025

DOOR DETAILS

SHEET: A8.1

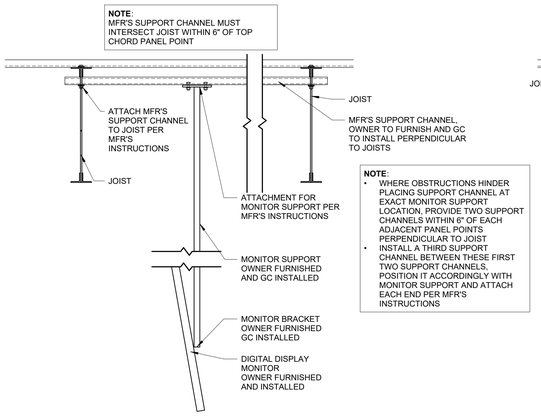
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SHEET NOTES

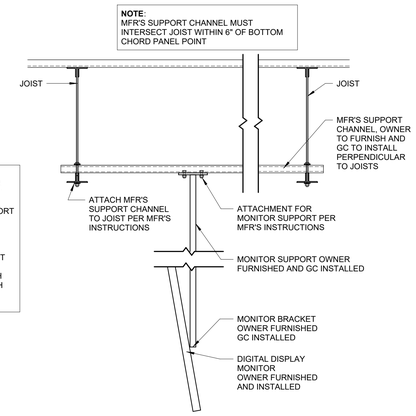
1. REFER TO SHEET A8 FOR FINISH KEY AND GENERAL FINISH NOTES
2. USE CONTINUOUS SEALANT WHERE COUNTER TOPS AND CASEWORK MEET WALL OR OTHER OBSTACLES
3. USE CONTINUOUS SEALANT AT TOP, BOTTOM AND SIDES WHERE BASE IS PRESENT ON COUNTERS AND CASEWORK
4. WHERE LAMINATE IS INDICATED FOR EXISTING CASEWORK, REMOVE EXISTING LAMINATE AND/OR FINISHES TO BASE SUBSTRATE PRIOR TO INSTALLATION OF NEW
   - INSTALLATION OF LAMINATE OVER EXISTING IS NOT ACCEPTABLE, NO EXCEPTIONS
5. INSTALL ALUMINUM CORNER GUARDS AT ALL EXPOSED MILLWORK CORNERS, REF SPECS
6. FOR SS COUNTERTOPS, REFURBISH TO LIKE NEW CONDITION

COLOR LEGEND

B9	BLACK PLASTIC BASE
DB5	DURO BASE BLACK 5"
PL11	NORTH SEA GRAY
PL12	MISTED ZEPHYR
SS	STAINLESS STEEL
WG	PLASTIC WALL GUARD

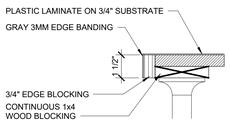


OPTION A

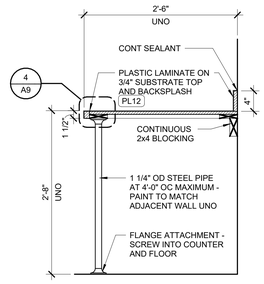


OPTION B

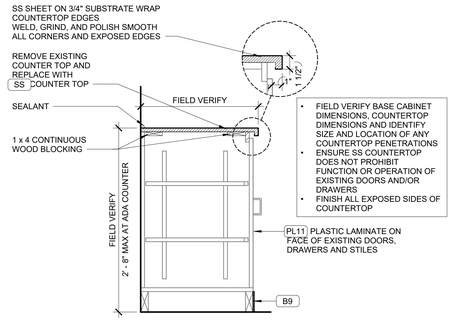
5 MONITOR SUPPORT BRACKET (OWNER FURNISHED)
3/4" = 1'-0"



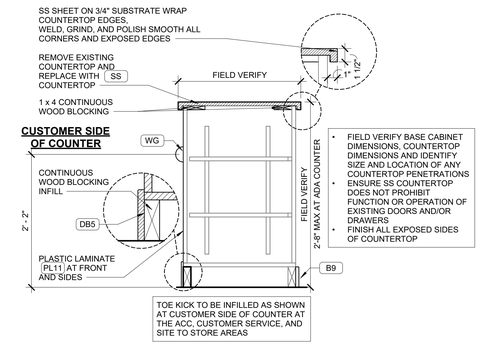
4 EDGE SECTION
3" = 1'-0"



3 COUNTER SECTION
1" = 1'-0"



2 BASE CABINET SECTION
1" = 1'-0"



1 BASE CABINET SECTION
1" = 1'-0"

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CONSULTANTS

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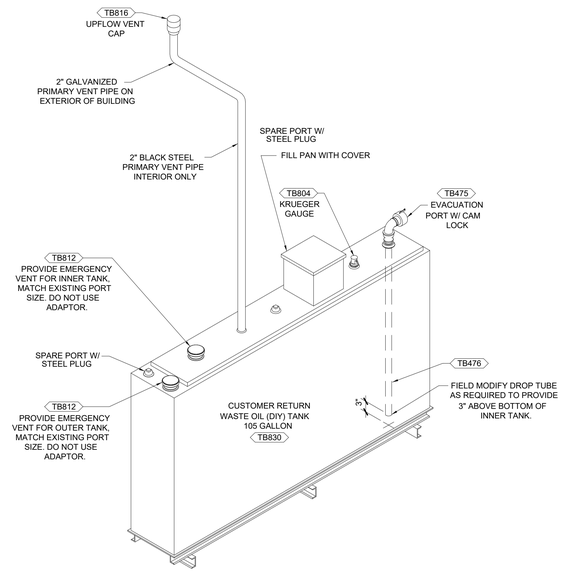
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DOCUMENT DATE: 01/08/25

GABRIEL JOHN MASSA
REGISTERED ARCHITECT
NO. 9941
STATE OF NORTH CAROLINA
NEPTUNE, N.J.
01/08/2025

CASEWORK

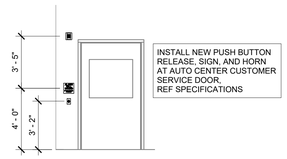
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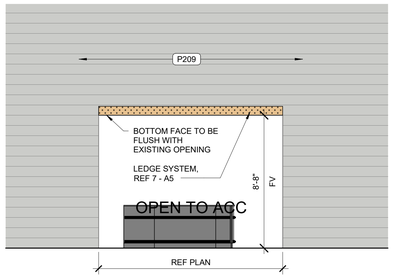


6 105 GALLON CUSTOMER WASTE OIL TANK
12" = 1'-0"

5 NOT USED



4 AUTO CENTER DOOR ELEVATION
1/4" = 1'-0"



3 AUTO CENTER ENTRY ELEVATION
1/4" = 1'-0"

AUTO CENTER EQUIPMENT SCHEDULE

WDS NUMBER	QTY	DESCRIPTION	NOTES
TB475	1	EVACUATION PORT W/CAM LOCK	
TB476	1	DROP TUBE	
TB802	2	3" PRESSURE RELEASE EMERGENCY VENT	
TB804	1	30" KRUEGER GAUGE	
TB816	1	UP-FLOW VENT CAP	
TB830	1	105 GALLON CUSTOMER RETURN OIL TANK	

AUTO CENTER EQUIPMENT NOTES

GENERAL NOTES:

1. ALL TANKS AND PIPING TO BE INSTALLED AND PROPERLY TESTED IN ACCORDANCE WTIH ALL APPLICABLE CODES AND MANUFACTURER REQUIREMENTS. REF SPECIFICATIONS.
2. ALL PIPING AND FITTINGS TO BE SUPPLIED BY GENERAL CONTRACTOR AND INSTALLED BY CERTIFIED INSTALLER

SCHEDULE NOTES:

1. FURNISHED BY WAL-MART AND INSTALLED BY GENERAL CONTRACTOR PER MANUFACTURER'S SPECIFICATIONS
2. GENERAL CONTRACTOR IS RESPONSIBLE TO COORDINATE DELIVERY SCHEDULE REF SPECIFICATIONS
3. STEEL MOUNTING PLATE FOR WASTE OIL PUMP BY LIFT MANUFACTURER.
4. HOSES ROUTED THROUGH EMBEDDED PIPE SLEEVE. REF MECHANICAL.
5. TB900 SHALL BE PROVIDED WITH LIFT.
6. GENERAL CONTRACTOR IS RESPONSIBLE TO COORDINATE INSTALLATION SCHEDULE, REF SPECIFICATIONS.
7. REF MECHANICAL FOR LOCATION
8. REF SPECIFICATIONS.
9. NO INSTALLATION REQUIRED.

SHEET NOTES

1. GENERAL CONTRACTOR SHALL PROVIDE DISCONNECTION OF ALL EQUIPMENT, LINES, PIPES AND RETAINING HARDWARE.
2. GENERAL CONTRACTOR SHALL NOT PERFORM ANY WORK BEFORE TANK HAS BEEN EMPTIED.
3. GENERAL CONTRACTOR SHALL COORDINATE ALL WORK WITH WALMART CONSTRUCTION MANAGER

KEYNOTES

9.90	FLOOR STRIPES. REF N1 FOR STRIPING CONDITIONS
10.44	PROVIDE TACTILE "EXIT" SIGN. REF N1.
10.46	INSTALL PUSH-TO-EXIT BUTTON AND ASSOCIATED HARDWARE. REF A8 AND SPECS.

GENERAL NOTES

1. GENERAL CONTRACTOR TO COORDINATE REMOVAL AND STORAGE OF CHASSIS GREASE/GEAR OIL DRUMS WITH WALMART CONSTRUCTION MANAGER.
2. ENVIRONMENTAL, HEALTH AND SAFETY COMPLIANCE SHALL BE RESPONSIBLE FOR EMPTYING, HANDLING, REMOVAL AND DISPOSAL OF CHASSIS GREASE/GEAR OIL DRUM, CONTENTS, AND DRUM THROUGH COORDINATION WITH WALMART CONSTRUCTION MANAGER.
3. GENERAL CONTRACTOR TO COORDINATE RELOCATION OF TANK WITH WALMART CONSTRUCTION MANAGER.
4. ENVIRONMENTAL, HEALTH AND SAFETY COMPLIANCE SHALL BE RESPONSIBLE FOR EMPTYING, HANDLING, REMOVAL AND DISPOSAL OF TANK CONTENTS.
5. GENERAL CONTRACTOR TO COORDINATE REMOVAL AND STORAGE OF TANK WITH WALMART CONSTRUCTION MANAGER.
6. ENVIRONMENTAL, HEALTH AND SAFETY COMPLIANCE SHALL BE RESPONSIBLE FOR EMPTYING, HANDLING, REMOVAL AND DISPOSAL OF TANK, CONTENTS, AND TANK THROUGH COORDINATION WITH WALMART CONSTRUCTION MANAGER.

604 CUSTOMER SERVICE

WALLS
- GYP BD: PAINT WALLS P209 TO CEILING OR EXPOSED STRUCTURE, USE PS7 WAINSCOT AND DBS BASE
- CMU: PAINT P209 TO CEILING OR EXPOSED STRUCTURE
- DIAMOND PLATE WAINSCOT: ETR. PAINT P209 ABOVE WAINSCOT

FLOOR
- ETR

CEILING
- OPEN TO STRUCTURE, NO FINISH

MILLWORK
- RE-LAMINATE FRONT FACE AND SIDE FACES OF EXISTING CASEWORK, INSTALL WALL GUARD, INFILL TOE KICK AND INSTALL BASE
- STAINLESS STEEL COUNTERTOP: ETR, REFURBISH TO LIKE-NEW CONDITION

REPAIR / REMOVE / REPLACE
- REPLACE DAMAGED OUTLETS, NON-ALMOND TO MATCH EXISTING COLOR, REPLACE ALMOND WITH WHITE
- REPLACE CUSTOMER VISIBLE ALMOND OUTLETS WITH WHITE
- REPLACE DAMAGED AND CUSTOMER VISIBLE COVER PLATES WITH BRUSHED STAINLESS STEEL, INCLUDING BLANK PLATES
- CLEAN OR REPLACE DAMAGED DIFFUSERS AND RETURNS AS REQUIRED

605 STORAGE, 614 ENVIRONMENTAL CAGE

WALLS
- ETR

FLOOR
- ETR

600 SERVICE BAYS

WALLS
- PAINT SERVICE BAYS P164 TO DECK. PAINT BOTH SIDES AND TOP HALF-HEIGHT WALL P164
- CLEAN AND PAINT RAILINGS FOR STAIRS AND LOWER SERIVCE BAY OPENINGS P5

FLOOR
- ETR

CEILING
- OPEN TO STRUCTURE NO FINISH

REPAIR / REMOVE / REPLACE
- HAND RAILS: REPAIR IF DAMAGED

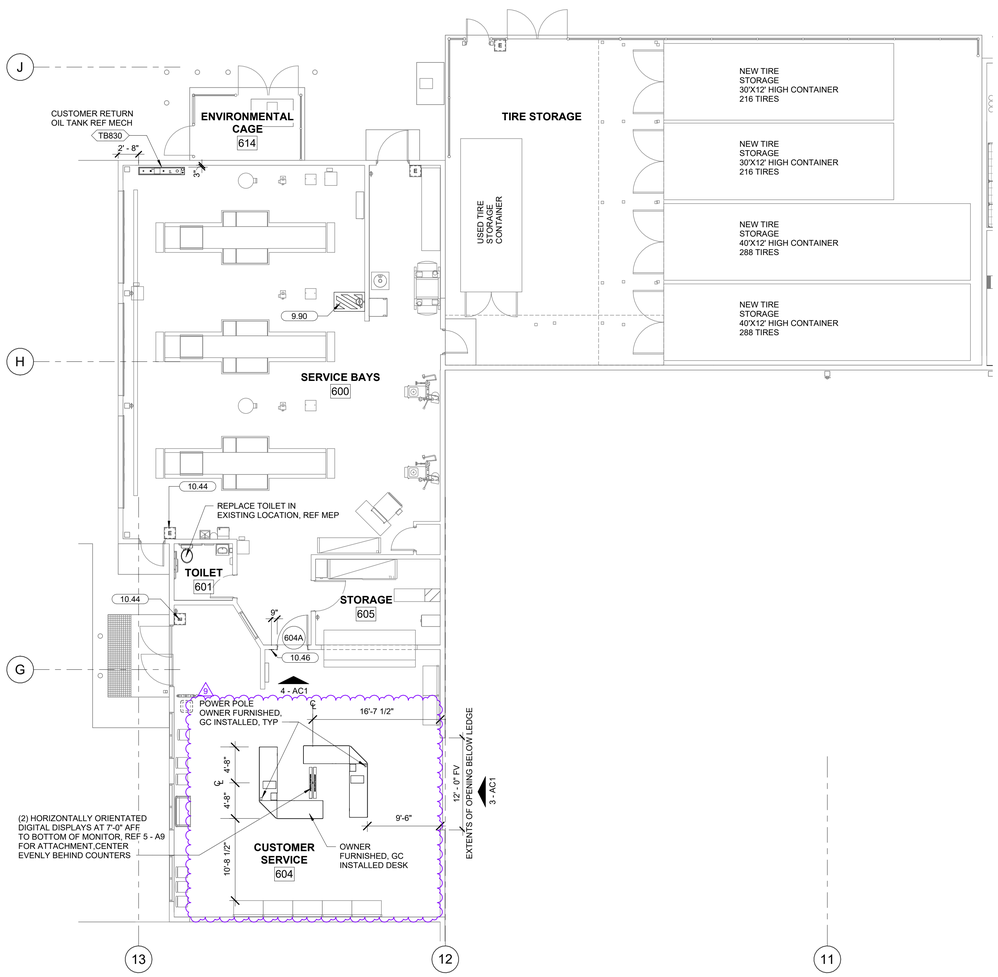
601 TOILET

WALLS
- GYP BD: PAINT P131
- FRP/NRP: REPLACE SHEETS THAT ARE DAMAGED OR TAN (REPLACE WITH FRP1)
- BASE: ETR, SPOT REPLACE DAMAGED WALL BASE, REF SHEET SA1 FOR BID ALLOWANCE

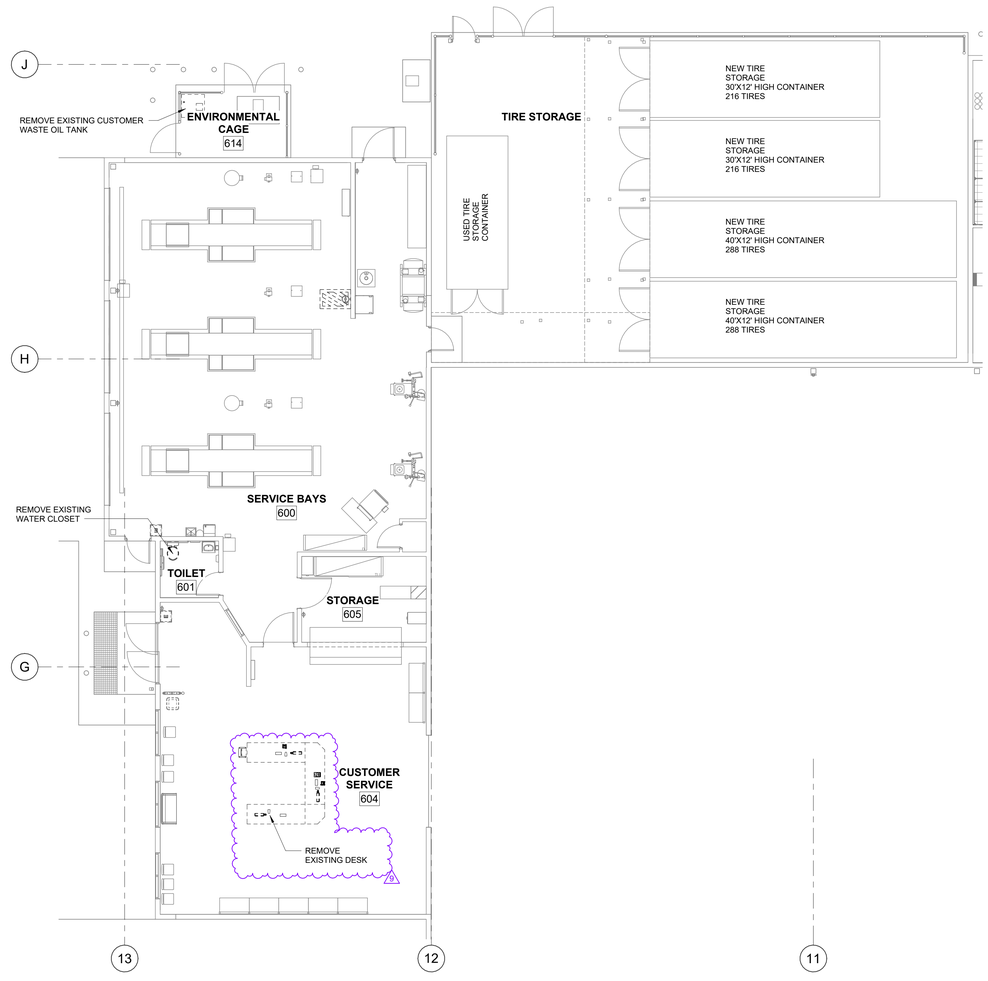
FLOOR
- EC: ETR, CLEAN FLOORING

CEILING
- GYP BD: REF SHEET SA1 CEILING SCHEDULE FOR CLEANING, PAINT P131

REPAIR / REMOVE / REPLACE
- GRAB BARS, TOILET PAPER DISPENSER, TOILET SEAT COVER DISPENSER, EMERGENCY LIGHT AND FIRE ALARM STROBE: TEMPORARILY REMOVE AND REINSTALL NON-DAMAGED FIXTURES AS REQUIRED
- FLUSH VALVE: REPLACE
- WATER CLOSET OR URINAL: REPLACE
- SINK AND FAUCET: REPLACE IF DAMAGED
- MIRROR, PAPER TOWEL DISPENSER, SOAP DISPENSERS: REPLACE IF DAMAGED
- REMOVE LIGHT SWITCH AND REPLACE WITH MOTION SENSOR
- REF A5.1 FIXTURE HEIGHTS AND CLEARANCES



2 AUTO CENTER FLOOR PLAN
1/8" = 1'-0"



1 AUTO CENTER DEMOLITION PLAN
1/8" = 1'-0"

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CONSULTANTS

Walmart
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2800 NC HWY 24-87
STORE NO: 06958.1000
JOB NUMBER: 194-23-047 PROTO: 182

ISSUE BLOCK

1	PR1	07/02/2025
8	CCD3	02/12/2026
9	CCD4	03/25/2026

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DRAWN BY:	WM
PROTO CYCLE:	07/26/24
DOCUMENT DATE:	01/08/25



3/25/2026

AUTOCENTER PLAN AND DETAILS

SHEET: AC1

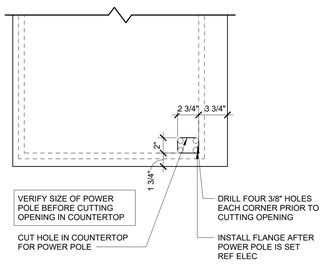
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12 NOT USED

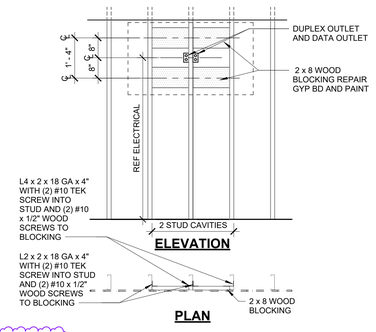
11 NOT USED

10 NOT USED

9 NOT USED



8 POWER POLE LOCATION
1 1/2" = 1'-0"



7 TV BRACKET BLOCKING
1 1/2" = 1'-0"

151 BREAKROOM

WALLS
- REF ELEVATIONS FOR FINISH INFORMATION

FLOOR
- EC: ETR, CLEAN

CEILING
- REF SHEET SA1 FOR CEILING SCHEDULE

COLUMNS
- FURRED COLUMNS: REF FINISH PLAN FOR FINISH INFORMATION
- NON-FURRED COLUMNS: PAINT P162 TO 4'-0" AFF AND PAINT TO MATCH ADJACENT WALL COLOR FROM 4'-0" TO CEILING OR DECK, REF 2-A1

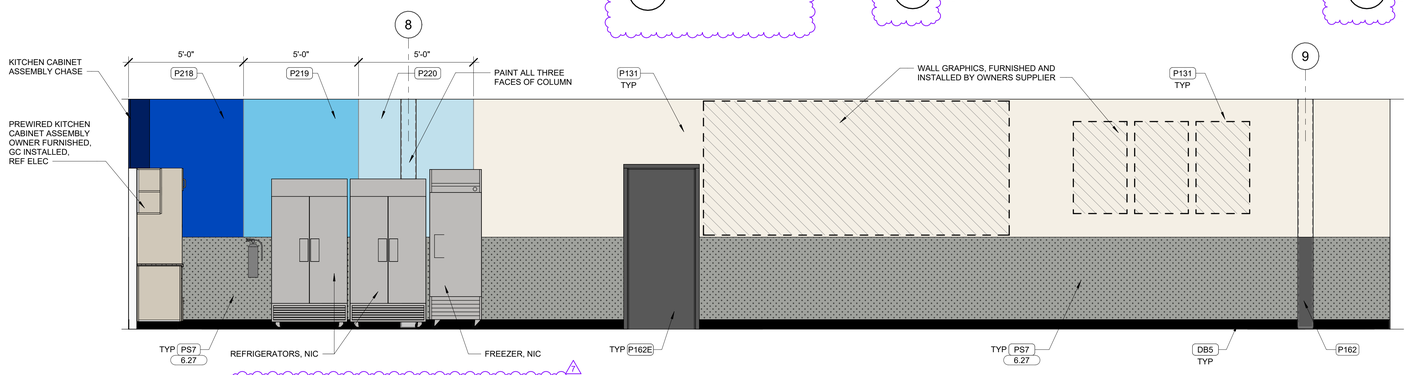
MILLWORK
- IF DAMAGED RE-LAMINATE FRONT FACE AND SIDE FACES OF EXISTING CASEWORK
- STAINLESS STEEL COUNTERTOP: ETR, REFURBISH TO LIKE-NEW CONDITION
- EXISTING SOLID SURFACE OR LAMINATE COUNTERTOP: REPLACE COUNTERTOP WITH SS COUNTERTOP

REPAIR / REMOVE / REPLACE
- REPLACE DAMAGED OUTLETS, NON-ALMOND TO MATCH EXISTING COLOR, REPLACE ALMOND WITH WHITE
- REPLACE DAMAGED COVER PLATES WITH BRUSHED SS, INCLUDING BLANK PLATES
- CLEAN OR REPLACE DAMAGED DIFFUSERS AND RETURNS AS REQ'D

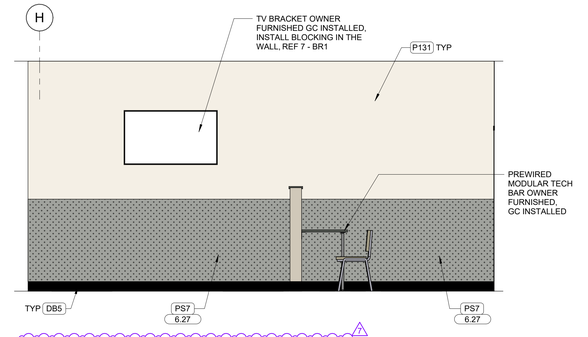
SHEET NOTES
1. REFERENCE FINISH LEGEND AND SPECS FOR PAINT AND PROTECTIVE SURFACING

KEYNOTES
6.27	48" HIGH WAINSCOT WITH OUTSIDE CORNER TRIM
10.44	PROVIDE TACTILE EXIT SIGN, REF N1
16.05	INSTALL INSECT CONTROL UNIT TYPE NOTED BESIDE UNIT. REFER TO N1 FOR LEGEND AND NOTES.

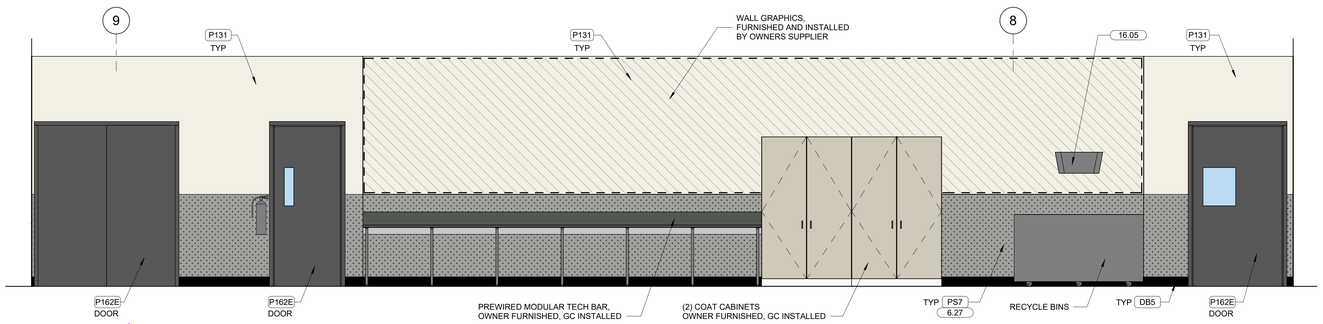
COLOR LEGEND
DB5	DURO BASE BLACK 5"
P131	WHITE FLOUR SW#7102
P162	PEPPERCORN SW#7674
P162E	BLACK GRAY
P218	TRUE BLUE SW#2728
P219	EVERYDAY BLUE SW #297
P220	SKY BLUE SW #9441
P222	BENTONVILLE BLUE SW #2757
PS7	GRAY PATTERN



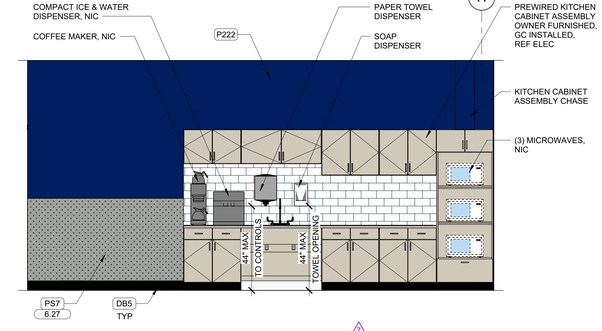
6 BREAKROOM ELEVATION
3/8" = 1'-0"



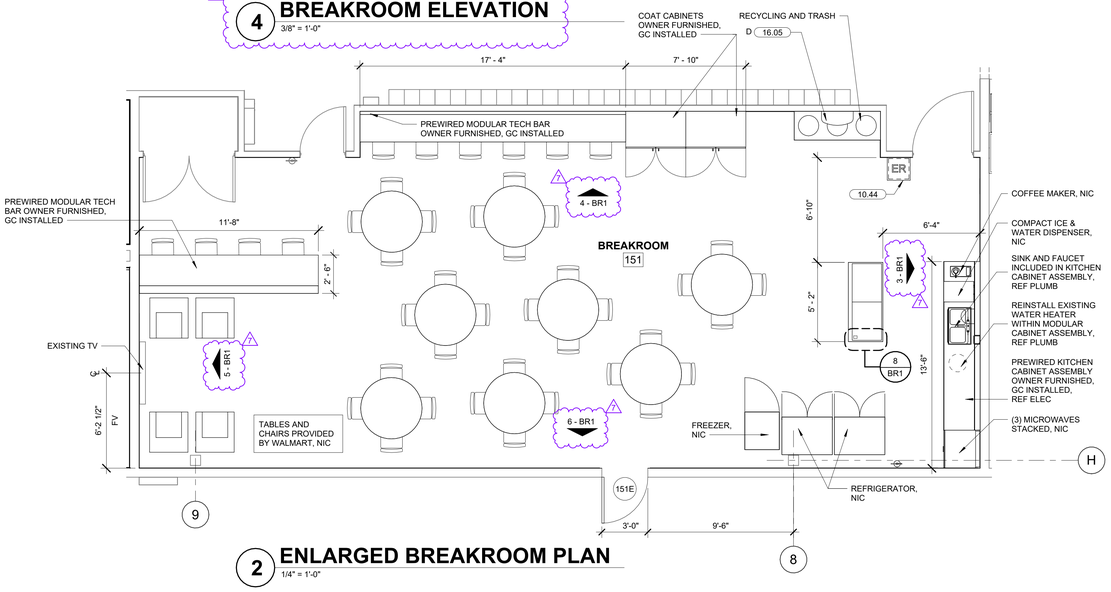
5 BREAKROOM ELEVATION
3/8" = 1'-0"



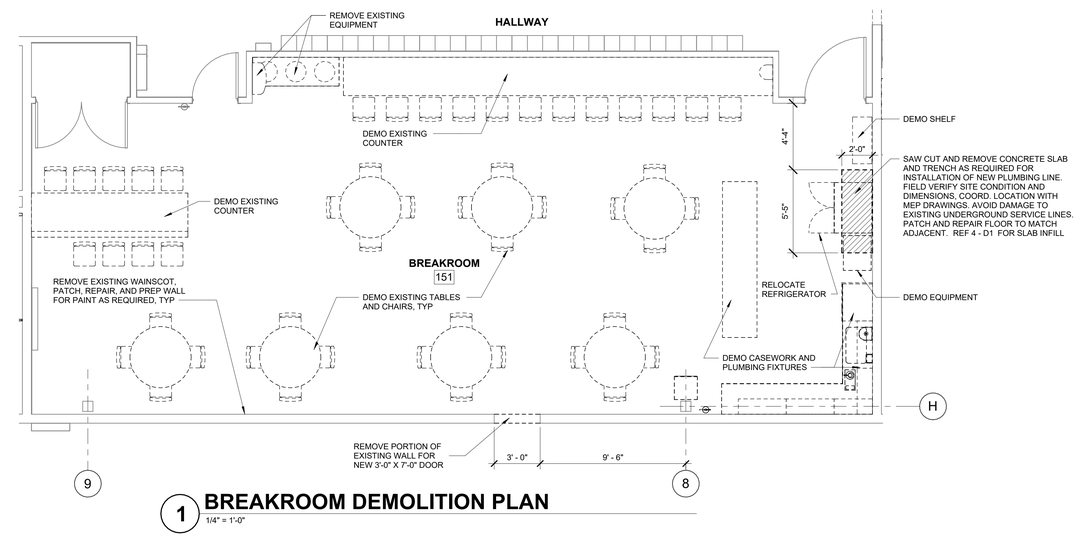
4 BREAKROOM ELEVATION
3/8" = 1'-0"



3 BREAKROOM ELEVATION
3/8" = 1'-0"



2 ENLARGED BREAKROOM PLAN
1/4" = 1'-0"



1 BREAKROOM DEMOLITION PLAN
1/4" = 1'-0"

Gabriel J. Massa, RA, AIA, NCARB, LEED AP
NC License No. 9941
MMA MASSA MULTIMEDIA ARCHITECTURE PC.
3297 Route 66, Neptune, NJ 07753
t 732.918.2300 f 732.988.7848

STIPULATION FOR REUSE
THE DRAWING WAS PREPARED FOR USE ON A SPECIFIC SITE AT CAMERON, NC. CONTEMPORANEOUS TO WITH ITS ISSUE DATE AND IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR WITH A SUBSEQUENT ISSUE DATE. ANY AND ALL USE OF THE DRAWINGS FOR ANOTHER PROJECT REQUIRES THE EXPRESS WRITTEN CONSENT OF THE ARCHITECTS AND ENGINEERS. ARCHITECTS AND ENGINEERS ASSUME NO RESPONSIBILITY FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED UNLESS WE CONSENT TO THE IAW

CONSULTANTS

Walmart
CAMERON, NC
2800 NC HWY 24-87
STORE NO: 06958.1000
194-23-047 PROTO
JOB NUMBER: 182

ISSUE BLOCK
1	PR1	07/02/2025
5	CCD1	12/04/2025
7	CCD2	01/21/2025

CHECKED BY:	MMA
DRAWN BY:	WM
PROTO CYCLE:	07/26/24
DOCUMENT DATE:	01/08/25

GABRIEL JOHN MASSA — REGISTERED ARCHITECT — 9941 — ILLINOIS — NEPTUNE, NJ

01/21/2025

BREAKROOM PLAN AND DETAILS

SHEET: BR1

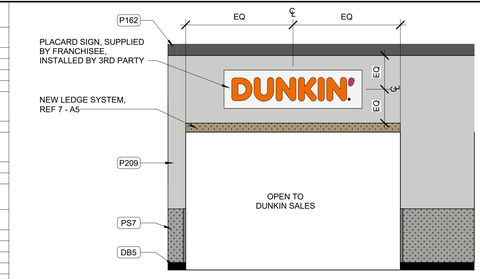
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OWNER SUPPLIED EQUIPMENT

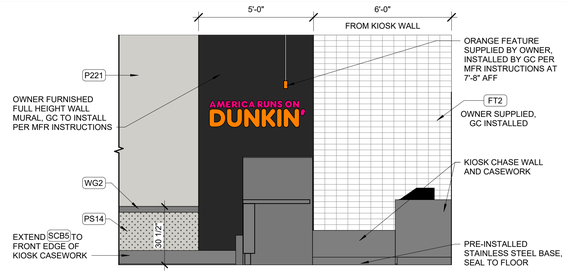
WDS#	DESCRIPTION	MANUFACTURER	MODEL NUMBER	SUPPLIED BY	INSTALLED BY	FINAL CONNECT
SS028	3-COMPARTMENT 24X60 (12X18) WITH 12IN DB	WIN-HOLT EQUIPMENT GROUP	3N-1218-2D-12	OWNER	GC	GC
DDK	17'-6" KIOSK	QUALSERV	N/A	OWNER	GC	N/A
DDAROD	AMERICA RUNS ON DUNKIN' MURAL	WOLF GORDON	AROD	OWNER	GC	N/A
DDSNK	COUNTER HAND SINK	BK RESOURCES	DDI-1014524S	OWNER	N/A	GC
	ELECTRIC WATER HEATER (LOW BOY 6-20 GALON)	A.O. SMITH RHEEM BRADFORD WHITE	PREFERRED DEL-20 COMMERCIAL EGSP20 COMMERCIAL LE120U3-1	OWNER	GC	GC
SS004L	HAND SINK 16X14 (14X10) WALL MOUNTED	WIN-HOLT EQUIPMENT GROUP	100519904	OWNER	GC	GC
SS1	MOP SINK (RECTANGULAR)	STERN-WILLIAMS FIAT ACORN	SB-800 TSB-200 TSH-24-SSC-LB	OWNER	GC	GC
DDCF	ORANGE SUSPENDED CEILING FEATURE 96"	HANGLOCK	N/A	OWNER	GC	N/A
DDST	WATER HEATER STAND	HOLDRITE	40-S-24-A	OWNER	GC	N/A

17'-6" KIOSK EQUIPMENT

MARK	DESCRIPTION	MANUFACTURER	MODEL NUMBER	SUPPLIED BY	INSTALLED BY	FINAL CONNECT
3MSG	WATER FILTER	3M	HFRO - F810	FRANCHISEE	GC	GC
36COND	CONDIMENT CART	FRANKE	36COND	FRANCHISEE	3RD PARTY INSTALLER	N/A
82A	BAKERY TROLLEY	VULCAN	1022648-01	FRANCHISEE	3RD PARTY INSTALLER	N/A
96.4A	ESPRESSO MACHINE	EVERSYS	SE-EC4BDUNK	FRANCHISEE	3RD PARTY INSTALLER	GC
101C-3	DAIRY DISPENSER	SILVER KING	SKECD12-V3-1-KE1	FRANCHISEE	3RD PARTY INSTALLER	N/A
101L	SWEETNER DISPENSER	SURESHOT	AC2-GP	FRANCHISEE	3RD PARTY INSTALLER	N/A
101Q-3	MULTI HOPPER GRINDER	BUNN	35600.0041	FRANCHISEE	3RD PARTY INSTALLER	N/A
104A	PUMP SWIRL STATION	FRANKE	27809918	FRANCHISEE	3RD PARTY INSTALLER	N/A
116.2	BLENDER	VITAMIX	36019	FRANCHISEE	3RD PARTY INSTALLER	N/A
122A	UNDERCOUNTER REFRIGERATOR	TURBO AIR	MUR-28-N-IC	FRANCHISEE	3RD PARTY INSTALLER	N/A
124E	COFFEE BREWER	BUNN	51100.0111	FRANCHISEE	3RD PARTY INSTALLER	GC
124G	2SH INF SOFT HEAT STAND SST	BUNN	27875.0201	FRANCHISEE	3RD PARTY INSTALLER	N/A
200A	ICED COFFEE BREWER	BUNN	45100.0000	FRANCHISEE	3RD PARTY INSTALLER	GC
202A	ICED COFFEE DISPENSER	BUNN	ICDD-3	FRANCHISEE	3RD PARTY INSTALLER	N/A
265	COLD BEVERAGE DISPENSER - 4 TAP	MICRO MATIC	MMDD4TAPV2	FRANCHISEE	3RD PARTY INSTALLER	GC
355	MOBILE ORDER ROLLING CART	VULCAN INDUSTRIES	1029275	FRANCHISEE	3RD PARTY INSTALLER	N/A
402	EMPLOYEE LOCKERS	MIDDLEBY FABRICATION	DD006402	FRANCHISEE	3RD PARTY INSTALLER	N/A
409J	ICE BIN	SCOTSMAN	B322S	FRANCHISEE	3RD PARTY INSTALLER	GC
416	ICE MACHINE	SCOTSMAN	MCO522SA_1	FRANCHISEE	3RD PARTY INSTALLER	GC
420B	WIRE SHELF	QUANTUM	2448GY	FRANCHISEE	3RD PARTY INSTALLER	N/A
443	REACH-IN REFRIGERATOR	TURBO AIR	M3R47-2-N-AL-AR-1	FRANCHISEE	3RD PARTY INSTALLER	N/A
561	FINISHED PRODUCT RACK	WINHOLT	PR13R	FRANCHISEE	3RD PARTY INSTALLER	N/A
877	WATERFALL MERCHANDISER ASSEMBLY	SPECTAS	2002-043	FRANCHISEE	3RD PARTY INSTALLER	N/A
1140.10	BEVERAGE COOLER	QBD	CD12-HC	FRANCHISEE	3RD PARTY INSTALLER	N/A
1409	PUMP AND POWDER RACK	TWENTY FOUR 7	4724	FRANCHISEE	3RD PARTY INSTALLER	N/A
1426	POS CART	METRO	DD2424POS	FRANCHISEE	3RD PARTY INSTALLER	N/A
1500	HVB COFFEE CART	FRANKE	18017419	FRANCHISEE	3RD PARTY INSTALLER	GC
1504	ICE BIN CABINET LEFT	FRANKE	18025922	FRANCHISEE	3RD PARTY INSTALLER	N/A
1516	LID HOLDER	FRANKE	18018406	FRANCHISEE	3RD PARTY INSTALLER	N/A
1517	LID HOLDER	FRANKE	18004125	FRANCHISEE	3RD PARTY INSTALLER	N/A
1531	DUMP SINK TABLE	FRANKE	18025434	FRANCHISEE	3RD PARTY INSTALLER	GC
CH2	COAT HOOK - DOUBLE	N/A	N/A	FRANCHISEE	3RD PARTY INSTALLER	N/A
DDRO	10 GALLON RO STORAGE TANK	3M	5598407	FRANCHISEE	GC	GC
DDSAFE	UNDERCOUNTER SAFE	LOOMIS	TITAN C	FRANCHISEE	3RD PARTY INSTALLER	N/A
MNU	DIGITAL MENU BOARD	N/A	N/A	FRANCHISEE	3RD PARTY INSTALLER	N/A
POS	POS SYSTEM	N/A	N/A	FRANCHISEE	3RD PARTY INSTALLER	N/A
SST24	SS TABLE	FRANKE	18017716	FRANCHISEE	3RD PARTY INSTALLER	N/A
SST36	SS TABLE	METRO	DD3036DWT	FRANCHISEE	3RD PARTY INSTALLER	N/A



14 DUNKIN ENTRANCE ELEVATION
1/4" = 1'-0"



13 BRAND WALL ELEVATION
3/8" = 1'-0"

COLOR LEGEND

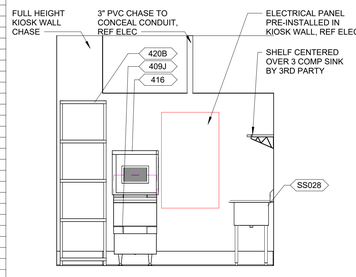
DB5	DURO BASE BLACK 5"
EC	EXPOSED CONCRETE
FRP1	FIBERGLASS REINFORCED PLASTIC (WHITE)
FT2	FAUX STACKED TILE (WHITE)
P162	PEPPERCORN SW#7674
P209	PASSIVE GRAY SW#7064
P221	ON THE ROCKS #7671
PS7	GRAY PATTERN
PS14	PALLADIUM 3D
SCB5	GRAY
WG2	PALLADIUM 3D TRIM BRUSHED NICKEL

KEYNOTES

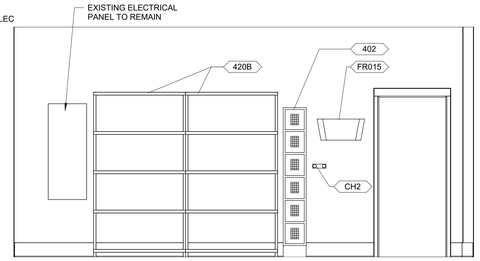
10.44	PROVIDE TACTILE "EXIT" SIGN. REF N1.
16.05	INSTALL INSECT CONTROL UNIT TYPE NOTED BESIDE UNIT. REFER TO N1 FOR LEGEND AND NOTES.

GENERAL NOTES

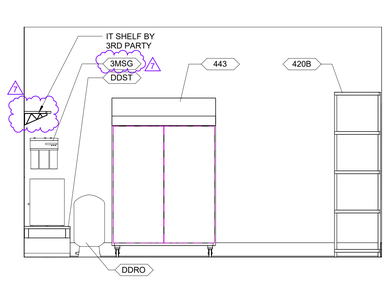
1. GENERAL CONTRACTOR IS RESPONSIBLE FOR PLUMBING ROUTING, SLAB WORK, INSTALLATION AND FINAL CONNECTIONS FOR ELECTRICAL AND PLUMBING INSTALLATION, REFER MEP
2. PATCH AND REPAIR CONCRETE SLAB AT REMOVED FLOOR FINISH, PREP CONCRETE SLAB FOR FINAL FLOOR FINISH
3. CASEWORK AND PREMANUFACTURED WALLS AT KIOSK ARE PREFINISHED. GC IS RESPONSIBLE FOR UNLOADING THE KIOSK AT THE DELIVERY, ASSEMBLY AND INSTALLATION OF KIOSK, REF DD2
4. PROPER INSTALLATION OF JOINT SEALANTS IS CRITICAL TO MEETING OWNER QUALITY ASSURANCE STANDARDS. PROVIDE SEALANTS IN ACCORDANCE WITH DRAWINGS AND SPECS
5. ALL JOINTS BETWEEN DISSIMILAR MATERIALS SHALL BE SEALED AS REQUIRED FOR A COMPLETE AND PROPER INSTALLATION, REGARDLESS OF WHETHER SHOWN ON THE DRAWINGS OR INDICATED IN THE SPECS
   - SUCH JOINTS NOT SHOWN OR SCHEDULED SHALL BE SEALED WITH SEALANTS CONSISTENT WITH SPECIFIED MATERIALS OR AS RECOMMENDED BY THE MANUFACTURER FOR THE SPECIFIC APPLICATION
6. GC TO INSTALL CONTINUOUS USDA APPROVED SEALANT AT ALL JOINTS BETWEEN MATERIALS ON WALLS AND FLOORS IN FOOD PREPARATION AREAS
7. ROUTE ALL UTILITY SERVICE LINES, PIPES AND CONDUIT WITHIN STUD WALLS WHEREVER POSSIBLE. IN AREAS WHERE UTILITIES MUST BE EXPOSED, CONTRACTOR TO HAVE OPTION OF FOLLOWING:
   - SURFACE MOUNT UTILITIES WITH NON-CORROSIVE ANCHORS; SEAL BOTH SIDES OF PIPE/CONDUIT TO PANEL CONTINUOUSLY WITH SEALANT
   - INSTALL UTILITIES 1/2" OFF FACE OF PANEL TO ALLOW FOR CLEANING; USE ONLY NON-CORROSIVE MATERIALS FOR SPACERS AND ANCHORS



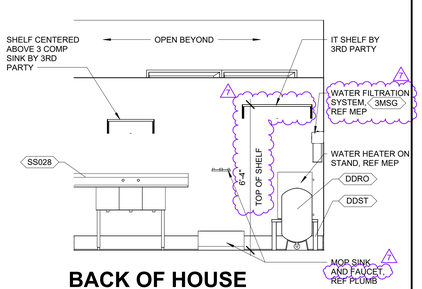
12 BACK OF HOUSE ELEVATION
3/8" = 1'-0"



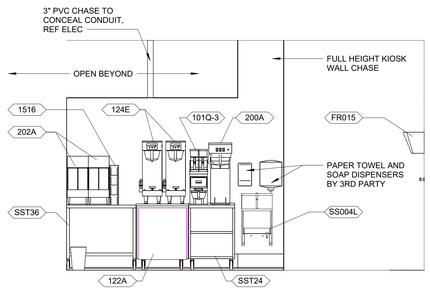
11 BACK OF HOUSE ELEVATION
3/8" = 1'-0"



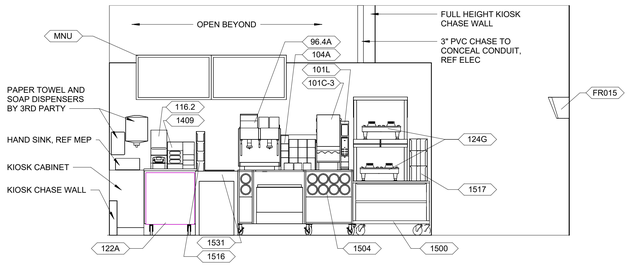
10 BACK OF HOUSE ELEVATION
3/8" = 1'-0"



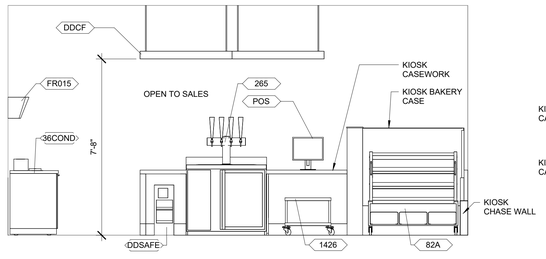
9 BACK OF HOUSE ELEVATION
3/8" = 1'-0"



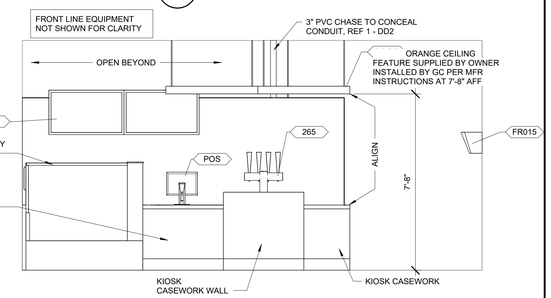
8 HAND SINK ELEVATION
3/8" = 1'-0"



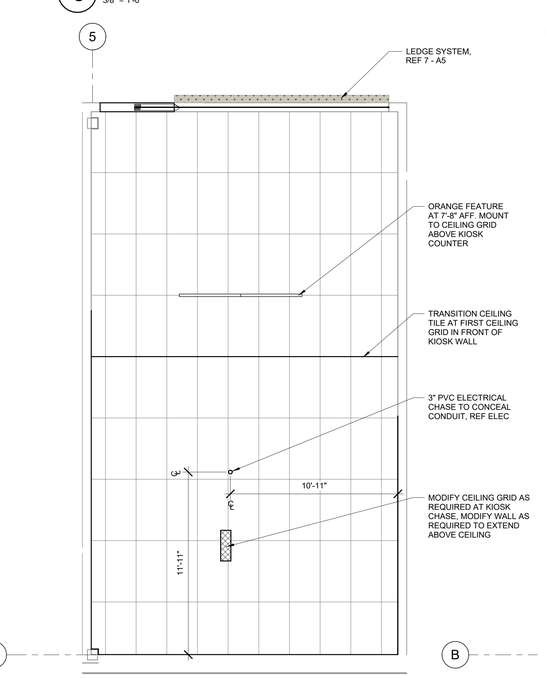
7 FRONT LINE ELEVATION
3/8" = 1'-0"



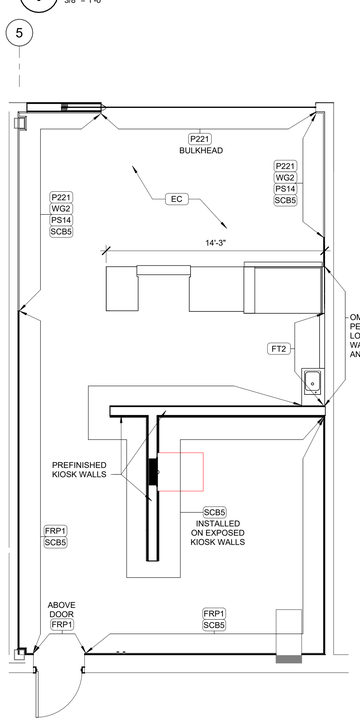
6 SERVICE COUNTER ELEVATION
3/8" = 1'-0"



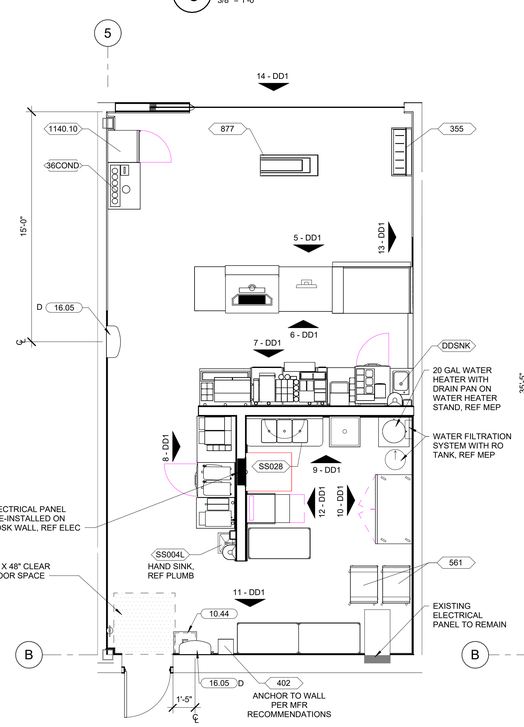
5 SALES ELEVATION
3/8" = 1'-0"



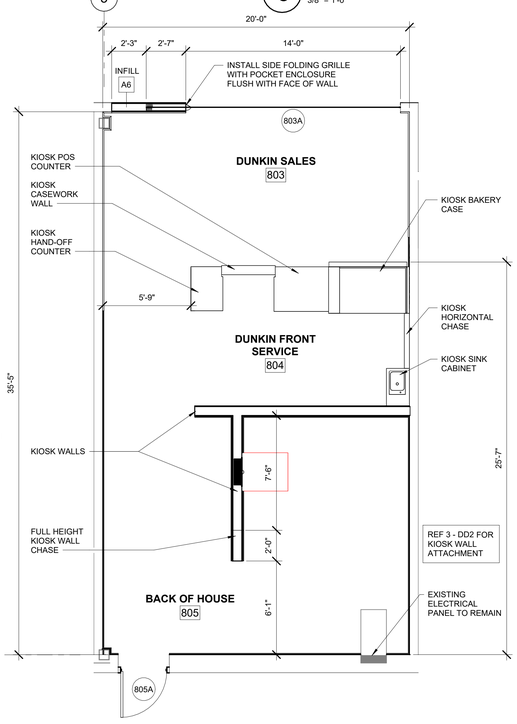
4 REFLECTED CEILING PLAN
1/4" = 1'-0"



3 FINISHES PLAN
1/4" = 1'-0"



2 EQUIPMENT PLAN
1/4" = 1'-0"



1 KIOSK PLAN
1/4" = 1'-0"

803 DUNKIN' CUSTOMER AREA

WALLS
- GYP BD PERIMETER WALLS:
  - PAINT P221
  - 30 1/2" H LAMINATE WAINSCOT PS14
  - CHAIR RAIL WG2 ABOVE WAINSCOT, WITH BRUSHED NICKEL CORNER GUARD. TOP OF RAIL AT 30 1/2"
  - SCB5 WALL BASE
- BRAND WALL MURAL: WOLF GORDON "AMERICA RUNS ON DUNKIN" MURAL OWNER SUPPLIED, GC INSTALLED

FLOOR
- EC: CLEAN AND POLISH, GC TO PROVIDE ANTI-SLIP NONABSORBENT

CEILING
CEILING HEIGHT : 10'-0"
- ACT1: REPLACE DAMAGED OR DISCOLORED TILE
- EXISTING CEILING GRID TO REMAIN. MODIFY AS REQUIRED
- PAINT DAMAGED OR DISCOLORED GRID (P8)

REPAIR / REPLACE
- REPLACE DAMAGED OUTLETS, NON-ALMOND TO MATCH EXISTING COLOR. REPLACE ALMOND WITH WHITE
- REPLACE CUSTOMER VISIBLE ALMOND OUTLETS WITH WHITE
- REPLACE DAMAGED AND CUSTOMER VISIBLE COVER PLATES WITH BRUSHED STAINLESS STEEL, INCLUDING BLANK PLATES
- CLEAN EXISTING SPRINKLER HEADS AND HVAC. REPLACE EXISTING DAMAGED CEILING FIXTURES AS REQUIRED

804 DUNKIN' FRONT SERVICE

WALLS
- PERIMETER WALLS:
  - REF 3 - FINISHES PLAN
  - SCB5 WALL BASE
  - FT2 OWNER SUPPLIED, GC INSTALLED, REF 3-DD1
- MODULAR WALLS: PRE-FINISHED
  - SCB5 WALL BASE

FLOOR
- EC: CLEAN AND POLISH, GC TO PROVIDE ANTI-SLIP NONABSORBENT

CEILING
- ACT1: REPLACE DAMAGED OR DISCOLORED TILE
- EXISTING CEILING GRID TO REMAIN. MODIFY AS REQUIRED
- PAINT DAMAGED OR DISCOLORED GRID (P8)

REPAIR / REPLACE
- REPLACE DAMAGED OUTLETS, NON-ALMOND TO MATCH EXISTING COLOR. REPLACE ALMOND WITH WHITE.
- REPLACE DAMAGED AND CUSTOMER VISIBLE COVER PLATES WITH BRUSHED STAINLESS STEEL, INCLUDING BLANK PLATES
- CLEAN EXISTING SPRINKLER HEADS AND HVAC. REPLACE EXISTING DAMAGED CEILING FIXTURES AS REQUIRED.

805 BACK OF HOUSE

WALLS
- PERIMETER WALLS:
  - FRP1
  - SCB5 WALL BASE
- MODULAR WALLS: PRE-FINISHED
  - SCB5 WALL BASE

FLOOR
- EC: CLEAN AND POLISH, GC TO PROVIDE ANTI-SLIP NONABSORBENT

CEILING
- ACT2: WHITE VINYL TILE & EXISTING CEILING GRID
- EXISTING CEILING GRID TO REMAIN. MODIFY AS REQUIRED
- PAINT DAMAGED OR DISCOLORED GRID (P8)

REPAIR / REMOVE / REPLACE
- REPLACE DAMAGED OUTLET COVER PLATES WITH BRUSHED STAINLESS STEEL, INCLUDING BLANK PLATES (including columns)
- CLEAN EXISTING SPRINKLER HEADS AND HVAC. REPLACE EXISTING DAMAGED CEILING FIXTURES AS REQUIRED.

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NC License No. 9941
MMA MASSA MULTIMEDIA ARCHITECTURE PC.
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ISSUE BLOCK

5	CCD1	12/04/2025
7	CCD2	01/21/2025

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DRAWN BY:	WM
PROTO CYCLE:	07/26/24
DOCUMENT DATE:	01/08/25

GABRIEL JOHN MASSA 9941 REGISTERED ARCHITECT NEPTUNE, N.J.

01/21/2025

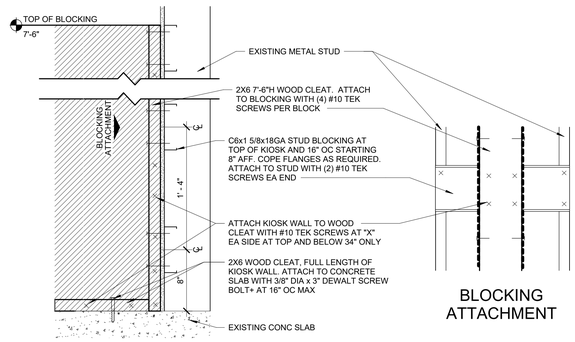
DUNKIN TENANT PLANS AND ELEVATIONS

SHEET: DD1

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GENERAL FINISH NOTES

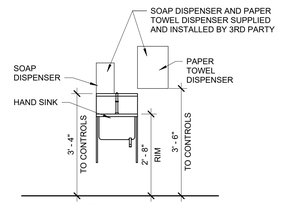
1. PAINT METAL DOOR FRAMES VISIBLE TO CUSTOMER, EXCEPT DOORS IN CMU WALLS, WITH EPOXY PAINT
   - PREP SURFACE TO BE PAINTED PER SPECS
2. PAINT ALL HM DOORS P162 UNO
3. PAINT ALL HM FRAMES LOCATED IN PAINTED WALLS P162 UNO
4. FOR PROTECTIVE WALL SURFACING WAINSCOT, INSTALL OUTSIDE CORNER TRIM, REF SPECS
5. WHERE PROTECTIVE SURFACING WAINSCOT IS TO BE INSTALLED, REMOVE EXISTING LAMINATE AND/OR FINISHES TO BASE SUBSTRATE PRIOR TO INSTALLATION. INSTALLATION OF PROTECTIVE SURFACING OVER EXISTING IS NOT ACCEPTABLE, NO EXCEPTION
6. CLEAN AND PAINT (P8) CEILING GRID PER SPECS IN ALL AREAS REQUIRED CEILING TILE REPLACEMENTS
7. FINISHES ARE OWNER SUPPLIED AS INDICATED IN SPECS



KIOSK WALL ELEVATION

3 KIOSK ATTACHMENT

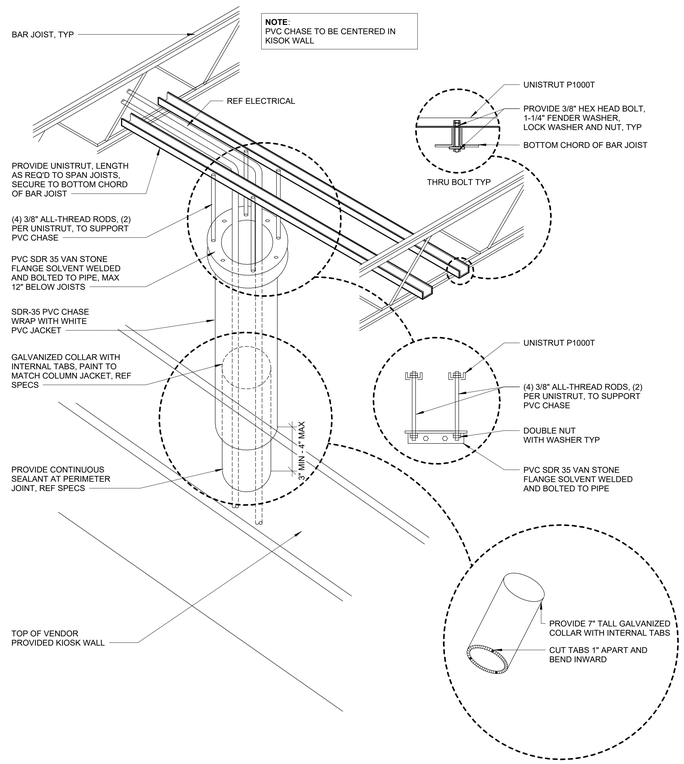
1 1/2" = 1'-0"



TYPICAL (KIOSK WALL MOUNTED)

2 HAND SINK ELEVATION

1/2" = 1'-0"



1 PVC ELECTRICAL CHASE

1/2" = 1'-0"

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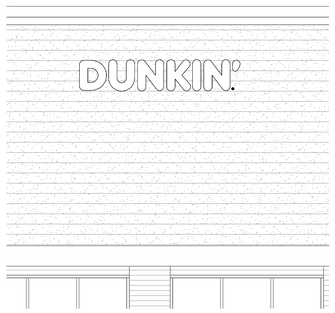
GABRIEL JOHN MASSA — 24471 — LICENSED ARCHITECT — NEPTUNE, NJ

12/04/2025

DUNKIN TENANT DETAILS

SHEET: DD2

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H1 = 22.5"
W1 = 125.75"
SIGNAGE AREA = 19.65 SQ. FT.
ILLUMINATION TO BE WHITE LEDs

CUSTOM ILLUMINATED BUILDING SIGN

2 EXTERIOR SIGNAGE DETAIL

1/4" = 1'-0"



1 EXTERIOR ELEVATION

1/8" = 1'-0"

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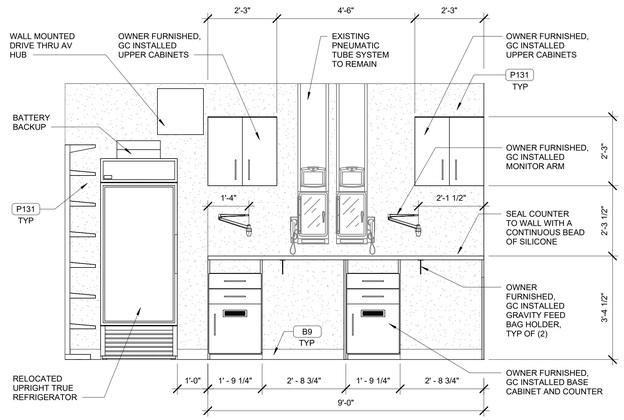
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5
DUNKIN SIGNAGE

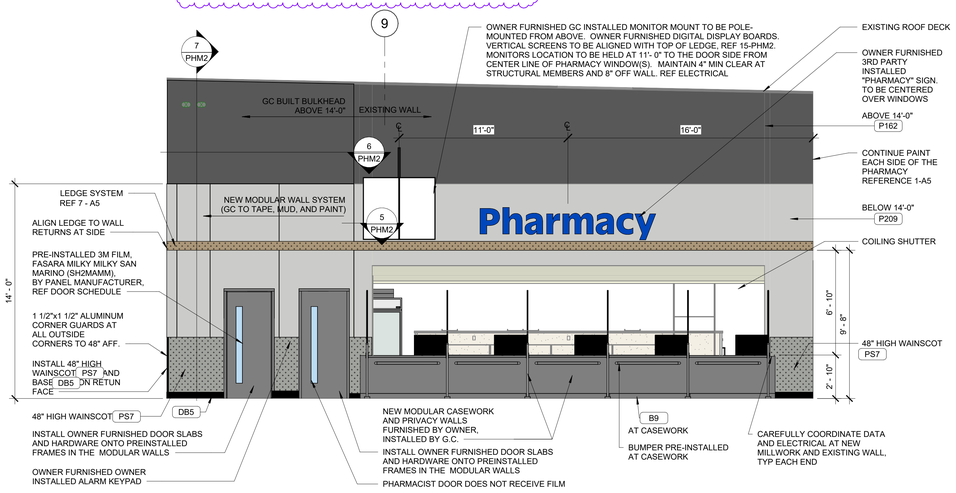
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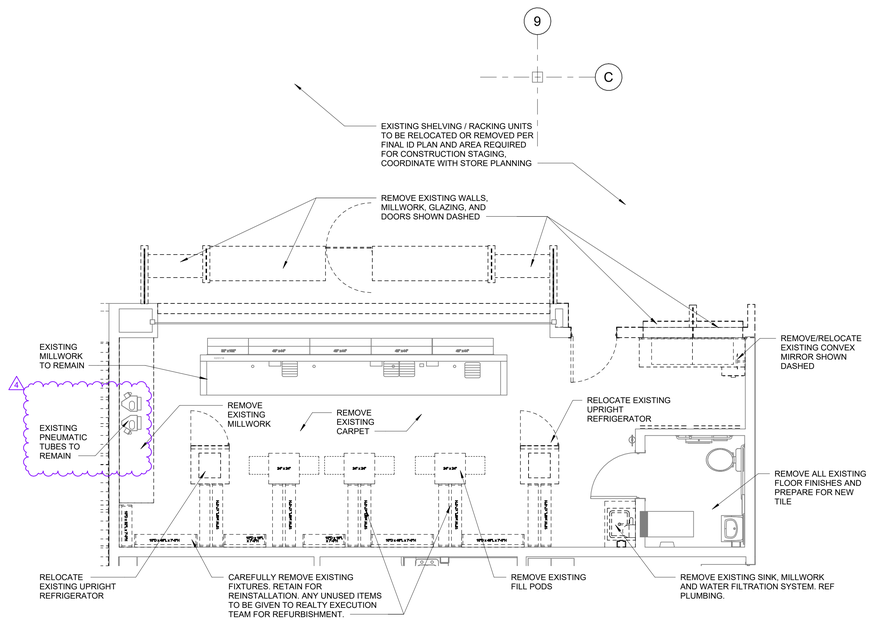
6 SIDE COUNTER ELEVATION

1/2" = 1'-0"



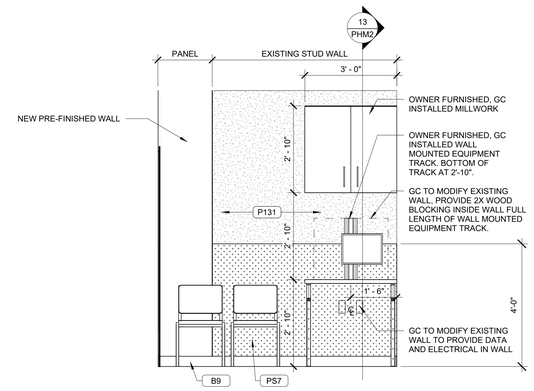
4 EXTERIOR ELEVATION

1/4" = 1'-0"



2 DEMOLITION PLAN

1/4" = 1'-0"



5 HSR ELEVATION

1/2" = 1'-0"

RESPONSIBILITY NOTES:

- **MODULAR WALL AND CEILING PANEL MANUFACTURER**
  CONTACT IS HAINES, JONES & CADBURY - FOR FURNISHING ALL MODULAR WALL PANELS AND CEILING PANELS, ASSOCIATED HARDWARE, PRE-FINISHED DOOR FRAMES AND DOOR SLABS WITH FILM INSTALLED, ALL DOOR HARDWARE, COILING SHUTTERS AND ALL BASE, WITH COMPLETE INSTALLATION DRAWINGS.

  FOR MODULAR WALL PANEL COMPONENTS COORDINATION CONTACT - HAINES, JONES & CADBURY. CUSTOMER SERVICE (800) 459-7099, MODULAR@HJCINC.COM

- **MODULAR MILLWORK MANUFACTURER**
  CONTACT IS [IDX CORPORATION][QUALSERV] - FOR FURNISHING ALL NEW COUNTERTOPS AND PRE-FINISHED LEGS UNDERNEATH; ALL PLUG AND PLAY ELECTRICAL, CPU CABINETS AND PENCIL DRAWERS UNDERNEATH AT FRONT COUNTER AND PHARMACIST'S BENCH;PRE-FINISHED PRIVACY WALLS ON 42HS AND WNM 42HS. FURNISHING ENTIRE FRONT COUNTER SYSTEM,PRE-FINISHED, INCLUDING PRIVACY WALLS WITH COMPLETE INSTALLATION DRAWINGS.

  FOR MODULAR MILLWORK CONTACT: WALMARTRX@IDXCORPORATION.COM

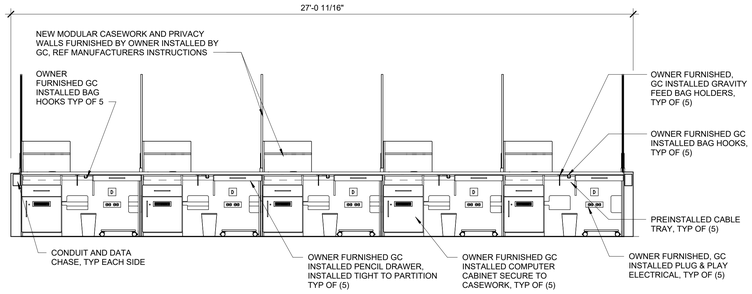
  FOR QUALSERV COORDINATION: QSPharmacy@qualservintl.com

- **OWNER**
  FURNISHING CPU CAGES MOUNTED ON WALLS UNDER COUNTERS, ALL COMPUTER EQUIPMENT, BAG HOOKS AND CONSTRUCTION ITEMS TYPICALLY FURNISHED FOR A REMODEL.

- **GENERAL CONTRACTOR (GC)**
  INSTALLING ALL OF THE ABOVE EXCEPT COMPUTER EQUIPMENT.

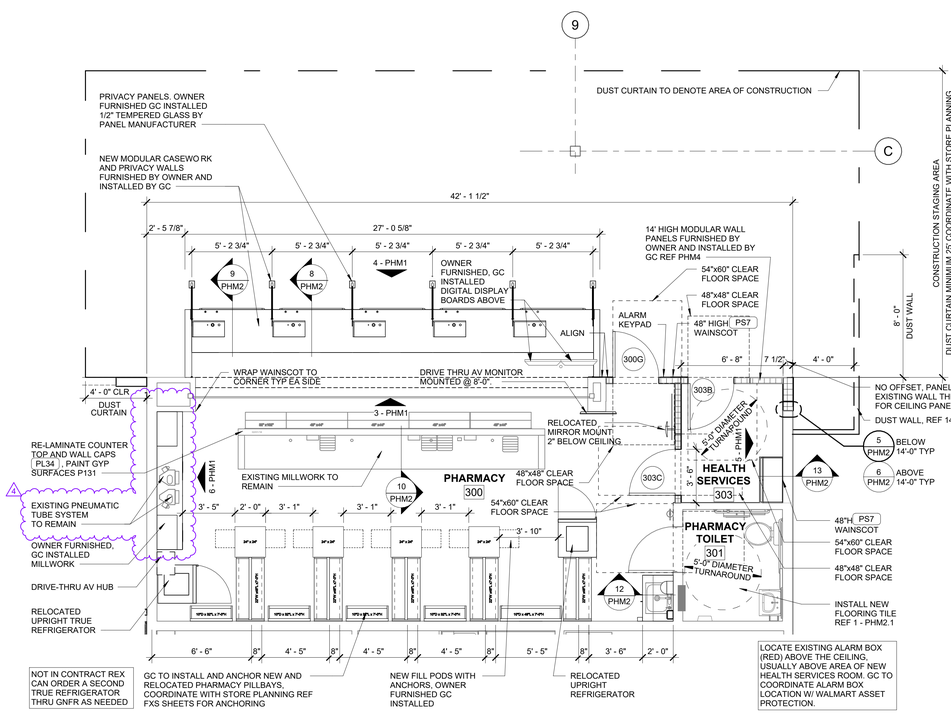
ACTUAL PANEL SIZES MAY VARY BASED ON FIELD CONDITIONS, GC TO COORDINATE WITH PANEL MANUFACTURER

GC TO REFFERENCE MANUFACTURERS INSTALLATION DRAWINGS FOR SEQUENCE OF WALL INSTALLATION, ASSEMBLY, AND OVERSIZED PANELS THAT WILL NEED TO BE MODIFIED IN THE FIELD TO FIT.



3 INTERIOR ELEVATION

3/8" = 1'-0"



1 PHARMACY PLAN

1/4" = 1'-0"

SHEET NOTES

1. INTERIOR PLAN DIMENSIONS SHALL BE TO FACE OF FINISH UNLESS NOTED OTHERWISE
2. PAINT ALL EXPOSED CONDUIT TO MATCH ADJACENT WALLS
3. OWNER FURNISHED AND INSTALLED ITEMS SHOWN DASHED UNO
4. PROVIDE SOUND ATTENUATION IN ALL HEALTH SERVICE ROOM PARTITIONS WHERE FINISHES ARE REMOVED
5. A TEMPORARY PHARMACY IS NOT REQUIRED, REF PHASING SHEETS
6. THIS PROTOTYPE USES PRE-WIRED MODULAR WALLS, COORDINATE WITH THE LOCAL JURISDICTION ON FINAL INSPECTIONS.
7. REFER TO MANUFACTURER'S INSTALLATION DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION AND SPECIFIC DETAILS ON THE MODULAR WALLS AND MILLWORK COMPONENTS.
8. GC TO COORDINATE ELECTRICAL INSPECTION FOR NEW POWER/ DATA IN EXISTING HEALTH SERVICES ROOM WALL
9. EQUIPMENT TREE POSTS AND WALL TRACKS, OWNER FURNISHED AND INSTALLED BY GC. ACCESSORIES AND EQUIPMENT INSTALLED BY OWNER.

300 PHARMACY

WALLS
- PAINT ALL WALLS P131 SEMIGLOSS. MODULAR WALLS TO BE PREFINISHED P131 SEMIGLOSS
- INSTALL BASE FURNISHED BY PANEL MANUFACTURER ON MODULAR WALLS. INSTALL NEW PLASTIC BASE B9 ON GYP WALLS.
- INSTALL B9 ON ALL WALLS EXCEPT BEHIND PHARMACY RACKS
- REPAIR DAMAGED WALLS, BOTH INTERIOR AND EXTERIOR.

FLOOR
- CARPET C1. PROVIDE OWNER FURNISHED, GC INSTALLED TRANSITION STRIPS AT THRESHOLDS. REF A1.1 FOR FLOOR FINISH RESPONSIBILITY MATRIX.

CEILING
- CEILING GRID TO REMAIN. MODIFY AS REQUIRED FOR NEW WORK. PAINT EXISTING GRID (P8)
- PROVIDE NEW ACT3 PANELS AND INTERMEDIATE TEES, AS REQUIRED FOR NEW LIGHTS.
- REF SHEET SA1 FOR CEILING SCHEDULE.
- CLEAN EXISTING GRID, LIGHT LENSES, SECURITY GLOBES, SPRINKLER HEADS AND HVAC FIXTURES TO REMAIN.
- REF NEW FOR LED LIGHT REPLACEMENTS. CLEAN ALL EXISTING LED LIGHT FIXTURES REMAINING.

MILLWORK
- FRONT COUNTER MILLWORK IS TO BE OWNER SUPPLIED, GC INSTALLED MODULAR MILLWORK. RE-LAMINATE COUNTER TOP AND WALL CAPS PL34. PAINT GYP SURFACES P131.

CUSTOMER FACING
- PAINT EXTERIOR WALL AT PHARMACY P209 BELOW 14'-0" AND P162 ABOVE 14'-0".
- INSTALL NEW PLASTIC LAMINATE PS7 AND NEW PLASTIC BASE DB5

303 HEALTH SERVICE ROOM

WALLS
- PAINT ALL WALLS P131. MODULAR WALLS TO BE PREFINISHED P131 SEMIGLOSS
- INSTALL BASE FURNISHED BY PANEL MANUFACTURER ON MODULAR WALLS. INSTALL NEW PLASTIC BASE B9 ON GYP WALLS.
- PS7 WAINSCOT TO 48" ON ALL WALLS

FLOOR
- REMOVE EXISTING FLOOR FINISHES AND POLISH EXISTING CONCRETE. REF SPEC SECTION 03363.
- TRANSITION STRIPS PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR.

CEILING
- CEILING TO BE FURNISHED BY PANEL MANUFACTURER AND INSTALLED BY GC. FINAL CONNECTIONS BY GC.

MILLWORK
- MILLWORK OWNER FURNISHED, GC INSTALLED.

301 PHARMACY TOILET

WALLS
- CLEAN EXISTING WALLS. REF SPEC 01740.

FLOOR
- INSTALL NEW FLOORING CT53, G15
- INSTALL NEW BASE CT53A, G15

CEILING
- PAINT P131. CLEAN EXISTING LIGHT LENSES, SPRINKLER HEADS AND HVAC FIXTURES TO REMAIN.

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4	ADD2	09/10/2025

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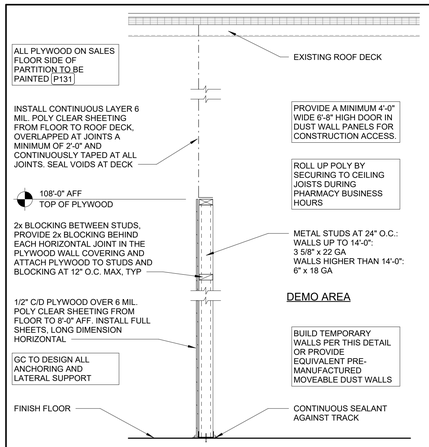
GABRIEL JOHN MASSA NEW JERSEY LICENSED ARCHITECT No. 21AI01994400 NEPTUNE, NJ

9/10/2025

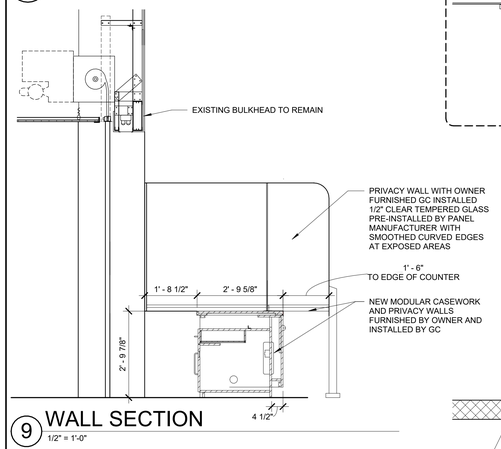
MODULAR PHARMACY PLANS, ELEVATIONS AND SCHEDULES

SHEET: PHM1

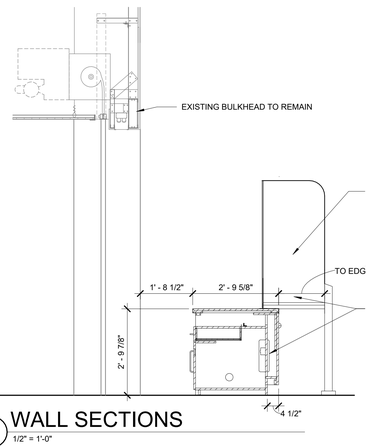
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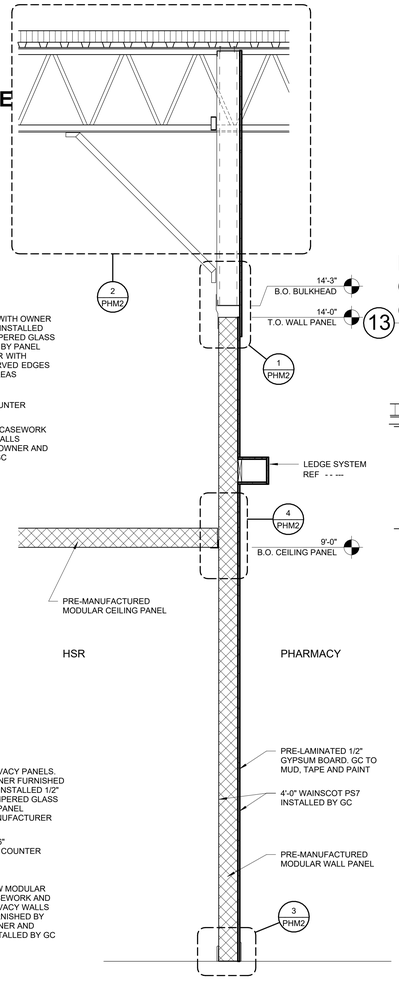
14 TEMPORARY BARRIER / DUST DRAPE
3/4" = 1'-0"



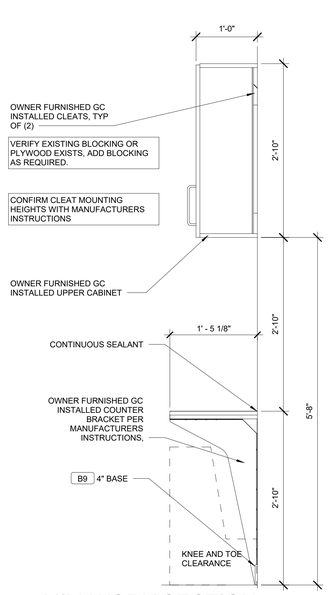
9 WALL SECTION
1/2" = 1'-0"



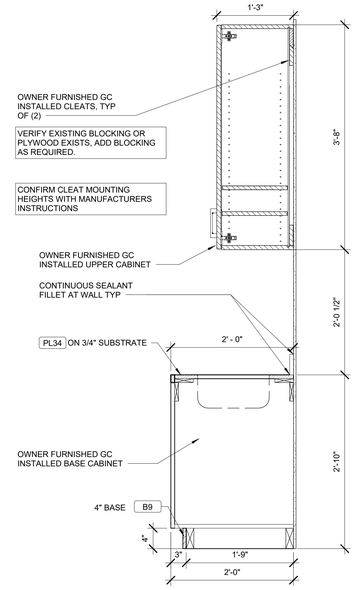
8 WALL SECTIONS
1/2" = 1'-0"



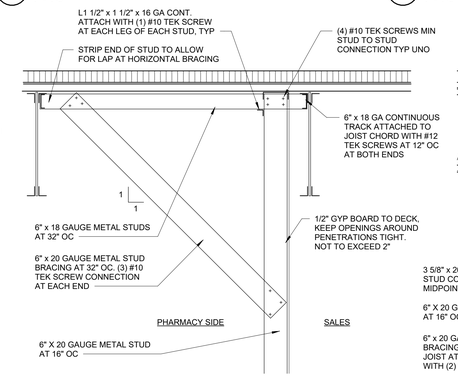
7 WALL SECTION
3/4" = 1'-0"

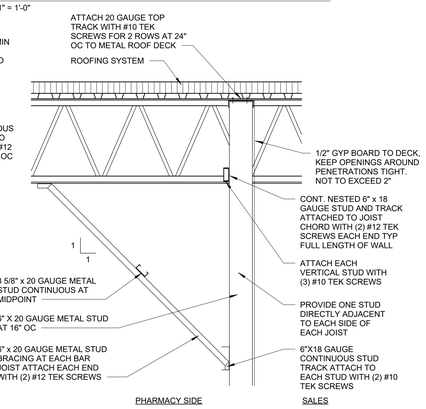


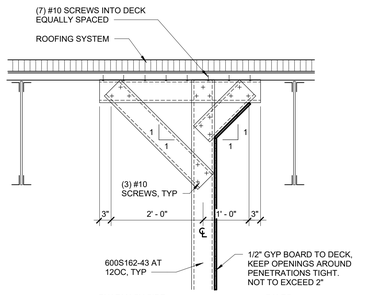
MILLWORK SECTION OWNER FURNISHED GC INSTALLED
13
1" = 1'-0"

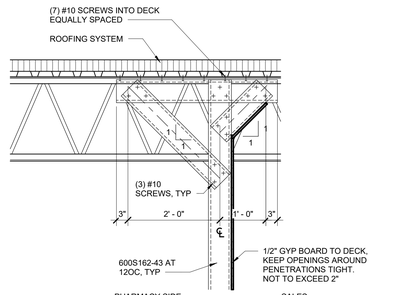


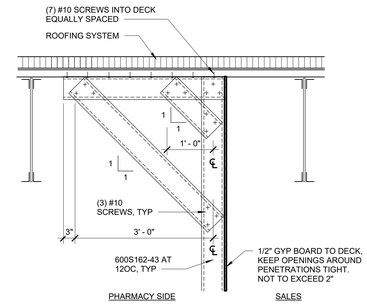
MILLWORK SECTION OWNER FURNISHED GC INSTALLED
12
1" = 1'-0"

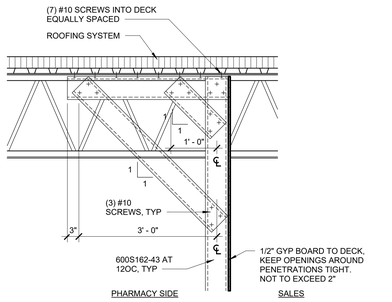




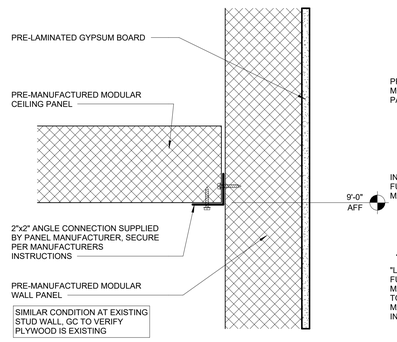




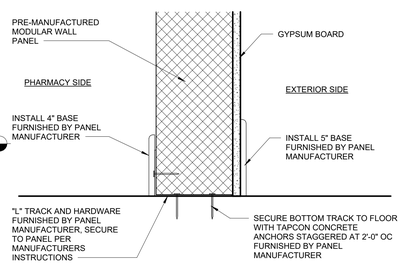




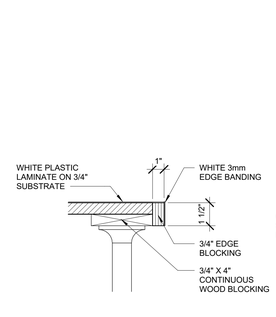
2 TYPICAL BULKHEAD ATTACHMENTS
3/4" = 1'-0"



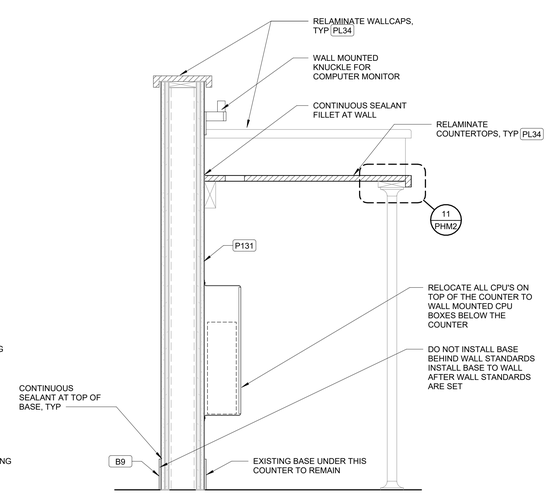
4 PANEL CONNECTION
3" = 1'-0"



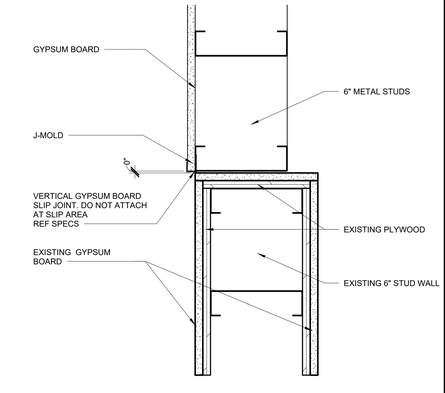
3 MODULAR WALL ATTACHMENT
3" = 1'-0"



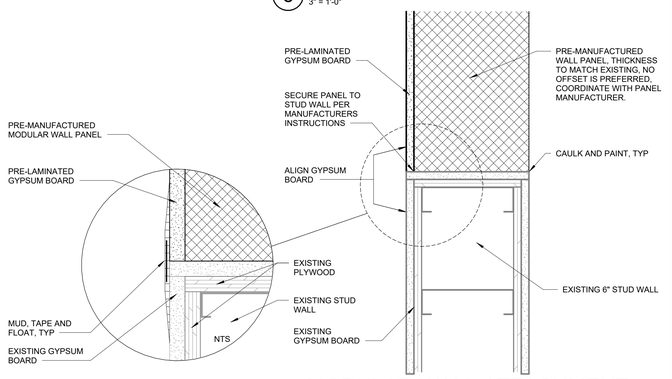
11 EDGE SECTION
3" = 1'-0"



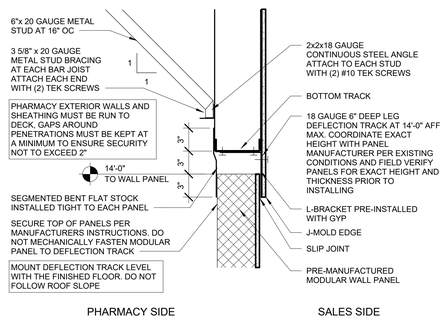
10 COUNTER SECTION
1 1/2" = 1'-0"



6 BULKHEAD CONTROL JOINT
3" = 1'-0"



5 MODULAR WALL ATTACHMENT
3" = 1'-0"



1 DEFLECTION TRACK AT MODULAR PANEL
1 1/2" = 1'-0"

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CONSULTANTS

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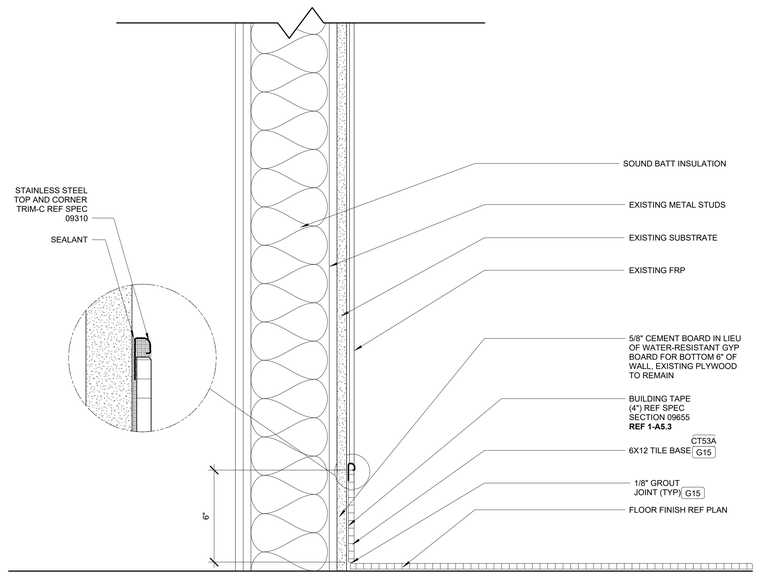
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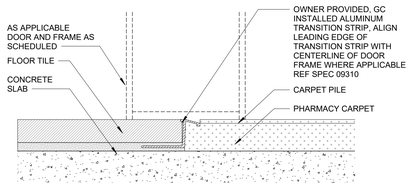
MODULAR PHARMACY SECTIONS AND DETAILS

SHEET: PHM2

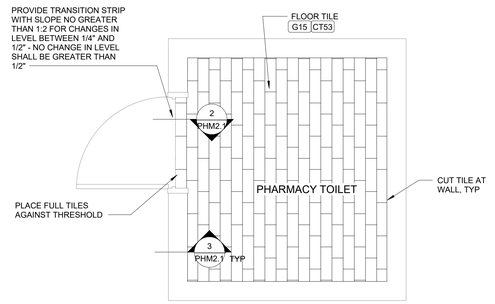
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3 RESTROOM WALL AND BASE SECTION
3" = 1'-0"



2 RESTROOM TRANSITION STRIP
12" = 1'-0"



1 RESTROOM FINISH FLOOR PLAN
1/2" = 1'-0"

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21241
STATE OF NEW JERSEY
NEPTUNE, N.J.
01/08/2025

PHARMACY RESTROOM DETAILS

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THIS SHEET IS FOR REFERENCE ONLY. REFER TO MANUFACTURER'S INSTALLATION DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION AND SPECIFIC DETAILS ON THE MODULAR WALLS AND COMPONENTS.

ALL WALL PANELS AND CEILING PANELS FURNISHED BY OWNER, GC INSTALLED.

SALES SIDE OF PANELS ARE PRE LAMINATED WITH GYPSUM, GC TO TAPE, MUD, AND PAINT.
INTERIOR SIDES OF PANELS ARE PREFINISHED, GC TO CAULK SEAMS WHERE MODULAR WALLS MEET AT INSIDE OF PHARMACY AND HEALTH SERVICES ROOM

FOR MODULAR WALL PANEL COORDINATION CONTACT : HAINES, JONES & CADBURY. CUSTOMER SERVICE (800) 459-7099, MODULAR@HJCINC.COM FOR MODULAR WALL PANEL COORDINATION

SHEET NOTES

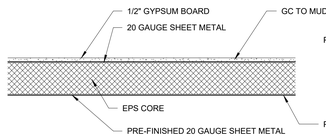
1. GC TO CAULK SEAMS WHERE MODULAR WALL PANELS MEET ON INSIDE OF PHARMACY AND HEALTH SERVICES ROOM.
2. PAINT ALL EXPOSED CONDUIT TO MATCH ADJACENT WALLS
3. THIS PROTOTYPE USES PRE-WIRED MODULAR WALLS FOR THE NEW FRONT COUNTER AND HEALTH SERVICES ROOM. COORDINATE WITH THE LOCAL JURISDICTION ON FINAL INSPECTIONS.
4. REFER TO MANUFACTURER'S INSTALLATION DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION AND SPECIFIC DETAILS ON THE MODULAR WALLS AND COMPONENTS.

PANEL DESIGNATION INDICATOR KEY PLAN

WP1 — PANEL DESIGNATION
3 — TYPICAL ORDER OF ASSEMBLY

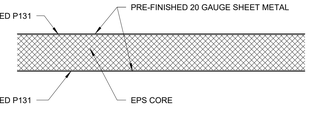
THE ORDER OF ASSEMBLY IS BASED ON PROTOTYPICAL SITUATIONS AND IS FOR INFORMATIONAL PURPOSES, REFER TO THE MANUFACTURERS INSTRUCTIONS SPECIFIC TO THE JOB FOR ACTUAL ORDER

PHARMACY EXTERIOR



PHARMACY INTERIOR

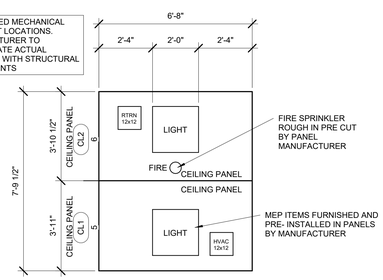
PHARMACY INTERIOR



PHARMACY INTERIOR

EPS
FLAME SPREAD: 15
SMOKE DEVELOPED: 150-250

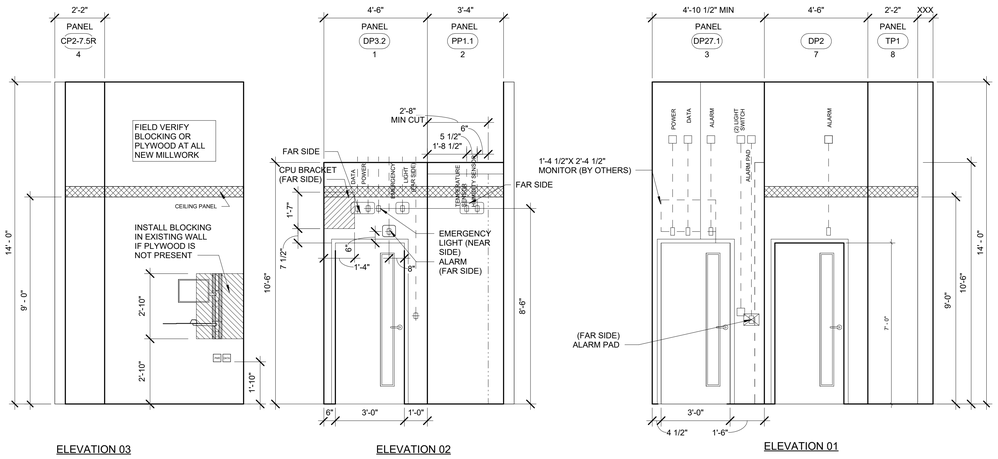
SUGGESTED MECHANICAL AND LIGHT LOCATIONS. MANUFACTURER TO COORDINATE ACTUAL LOCATION WITH STRUCTURAL COMPONENTS



CEILING

ALL DATA AND ALARM LOCATIONS ARE TO BE PULL WIRE

NOT ALL BOXES MAY BE USED. REF ELECTRICAL.



ELEVATION 03

ELEVATION 02

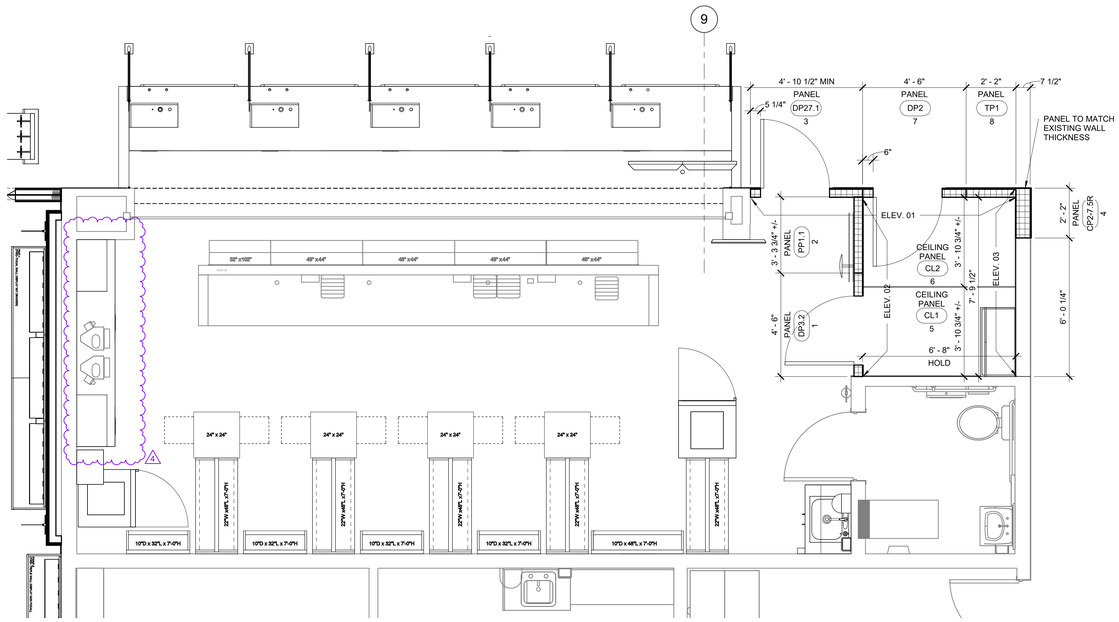
ELEVATION 01

2 MODULAR WALL PANEL TYPES

1 1/2" = 1'-0"

1 MODULAR PANEL PLAN

3/8" = 1'-0"



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NEPTUNE, N.J.

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PANEL PLAN

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OVERVIEW

1. THE NIGHT BY NIGHT PHASING PLAN IS INTENDED TO BE A GUIDE AND MAY NOT OCCUR IN CONSECUTIVE NIGHTS DEPENDING ON AHJ AVAILABILITY TO INSPECT. THIS PROJECT CAN ONLY TAKE 6-7 DAYS TO COMPLETE AND MUST BE PHASED SO PHARMACY IS OPERATIONAL EACH MORNING AND PHARMACIST IS ONLY REQUIRED 4-5 NIGHTS.
2. IT IS CRITICAL THAT THE PHARMACY IS SECURE AND OPERATIONAL EACH MORNING.
3. TRADES WILL NEED TO REVISIT AS EACH PHASE IS BEING DEMOED OR CONSTRUCTED.
4. PARTIAL TEMPORARY DUST WALLS WILL BE NEEDED PER PLANS. TEMPORARY DUST DRAPES WILL BE REQUIRED TO PROTECT PHARMACY AND SALES MERCHANDISE. THE DUST DRAPES MUST BE REMOVED EVERY MORNING SO THAT THE PHARMACY AND SALES AREAS ARE OPERATIONAL.

PHARMACY PHASING GENERAL NOTES

(REFER TO N1 AND SPECIFICATION SECTION 01700 FOR ADDITIONAL REQUIREMENTS.)

GENERAL REQUIREMENTS:
1. FEDERAL AND STATE LAWS AND REGULATIONS REQUIRE EXCEPTIONAL EXECUTION AND COMPLIANCE WHEN PERFORMING CONSTRUCTION ON MEDICAL PHARMACY FACILITIES. OPERATIONAL CONSIDERATIONS FOR WALMART REQUIRE THAT THE STRUCTURAL, MILLWORK, EQUIPMENT INSTALLATION AND PHARMACY SECURITY MODIFICATIONS OF EACH PHASE IS TO BE COMPLETED IN A SINGLE NIGHT. THE PHARMACY MUST BE OPERATIONAL BY NEXT MORNING OPENING. THE NEW INTERIOR AND FRONT WALL DOOR PASSAGE TO THE PHARMACY OPERATION MUST BE INSTALLED AND SECURE PRIOR TO MORNING OPENING. INTERIOR FINISHES OF THE HEALTH TREATMENT ROOM MAY BE COMPLETED ON THE SECOND NIGHT. DUE TO THOSE STRINGENT REQUIREMENTS, SPECIFIC REQUIREMENTS AND RECOMMENDATIONS ARE OFFERED IN THIS DOCUMENT TO FACILITATE UNDERSTANDING AND THE AVOIDANCE OF WORK TRADE CONFLICTS POTENTIALLY IMPACTING SUCCESS WITHIN THE RESTRICTIVE TIMELINE.

2. COMPLY WITH WALMART CONSTRUCTION MANAGER AND WALMART STORE PLANING FIELD PROJECT MANAGER REQUIREMENTS FOR WORK WITHIN THE BUILDING. SPECIFIC REQUIREMENTS WILL BE DISCUSSED BY THE WALMART CONSTRUCTION MANAGER AND WALMART STORE PLANING FIELD PROJECT MANAGER AT THE PRE-CONSTRUCTION CONFERENCE.

3. MAINTAIN A SAFE ENVIRONMENT FOR CUSTOMERS AT ALL TIMES. THE ADJACENT SALES AREA SHALL REMAIN IN SERVICE DURING DEMOLITION/CONSTRUCTION.

4. DUST AND DEBRIS SHALL NOT BE TRACKED INTO SALES AREA. SHOULD SUCH AN INCIDENT OCCUR, CLEAN IMMEDIATELY, USING APPROPRIATE METHODS AND FORCES. MEDICATION MUST BE PROTECTED FROM DUST AND DEBRIS AT ALL TIMES.

5. THE PHARMACY MUST BE FULLY CLEANED AND OPERATIONAL FOR NORMAL BUSINESS BY 6am EACH DAY. THE PHARMACIST MUST BE PRESENT FOR ALL ACTIVITIES WITHIN THE PHARMACY, ACCESS TO THE PHARMACIST WILL BE LIMITED AND MUST BE PRE ARRANGED THROUGH WM CONSTRUCTION MANAGER AND STORE PLANNING.

DEMOLITION REQUIREMENTS:
1. THE CONTRACTOR SHALL FIELD VERIFY THE EXTENT OF DEMOLITION. THE WORK INCLUDES, BUT IS NOT LIMITED TO, THE DEMOLITION AND REMOVAL OF WALLS, DOORS, FIXTURES, PLUMBING, SPRINKLERS, MECHANICAL AND ELECTRICAL ITEMS INCLUDING CONDUITS AND DUCTWORK SHOWN ON JOB OR AS REQUIRED FOR THE INSTALLATION OF THE NEW WORK FOR A COMPLETE JOB.

2. DURING DEMOLITION AND RECONSTRUCTION, COORDINATE WITH THE WALMART CONSTRUCTION MANAGER AND WALMART STORE PLANNING FIELD PROJECT MANAGER LOCATIONS OF ANY NECESSARY TRAFFIC SAFETY BARRIERS OR BARRICADES AND DUST DRAPES WITH THE SCOPE AND PHASING OF THE WORK.

3. WHEN REMOVING EXISTING STRUCTURAL ITEMS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SHORING, BRACING, AND SUPPORT SYSTEMS TO KEEP THE EXISTING STRUCTURE INTACT AND IN A SAFE CONDITION. REFER TO SECTION 02023 AND 02251.

PRE-CONSTRUCTION MOBILIZATION REQUIREMENTS

1. UPON AWARD OF CONTRACT AND NOTICE TO PROCEED (NTP) MOBILIZATION ACTIVITIES WILL COMMENCE. WORK TO BE SCHEDULED AS FAR IN ADVANCED AS POSSIBLE, WITH SUFFICIENT FLEXIBILITY, TO ALL ADJUSTMENT TO MEET UNFORESEEN CIRCUMSTANCES.
2. PRE-CONSTRUCTION ACTIVITIES SHOULD PROCEED A MINIMUM OF A WEEK PRIOR TO START OF CONSTRUCTION.

GENERAL CONTRACTOR RESPONSIBILITY

LOGISTICS
A. SCHEDULING
1. COORDINATE THE UNIQUE ASPECTS OF THIS CONSTRUCTION AND PHASING WITH THE LOCAL JURISDICTION BUILDING AND ELECTRICAL INSPECTORS TO ASCERTAIN ANY REQUIREMENTS POTENTIALLY IMPACTING THE OVERNIGHT CONSTRUCTION, LOW VOLTAGE, CABLING AND ELECTRICAL REVISIONS.
2. THOROUGHLY BRIEF ALL BIDDING TRADE SUB-CONTRACTORS ON ALL ASPECTS OF THE PHARMACY PRE-WORK, AND THE "OVERNIGHT COMPLETION" REQUIREMENT FOR BOTH OPERATION & NEXT DAY SECURITY.
3. GC TO HAVE A PRE-CONSTRUCTION CONFERENCE, AT THE JOBSITE WITH ALL STAKEHOLDERS, THREE WEEKS PRIOR TO THE START OF PHARMACY CONSTRUCTION DATE.
4. COORDINATE WITH PHARMACIST FOR A ONE HOUR AFTER CLOSING OPPORTUNITY FOR EACH TRADE TO EXAMINE THE INTERIOR OF THE PHARMACY TO SCOPE AND PLAN THEIR WORK AS A CONSTRUCTION TEAM.
5. IF DATA CABLE & ELECTRICAL TRADESMEN DETERMINE A NEED TO PERFORM PRE-INSTALLATION OF WIRING TO MEET THE OVERNIGHT REQUIREMENT, COORDINATE WITH PHARMACIST FOR A TWO HOUR PERIOD AFTER CLOSING TO PERFORM ROUGH INSTALLATION & STAGING OF WIRING.
6. COORDINATE WITH STORE PLANNING THE GONDOLA MOVE OF ANY MERCHANDISE FIXTURES NECESSARY TO CONSTRUCT WALLS.
7. SCHEDULE RELOCATION OF AP PANEL WITH WALMART AP TEAM.
8. CHECK IN MODULAR COMPONENTS.
9. COORDINATE WITH STORE PLANNING THAT ALL EQUIPMENT AND RACKS ARE CERTIFIED AND ONSITE.

B. STAGING
1. VERIFY AVAILABLE STAGING AREA, INSIDE OF THE STORE, FOR CONSTRUCTION AND CONFIRM LAYOUT OF DUST PARTITIONS AND DUST DRAPE.
2. VERIFY AVAILABLE STAGING AREA, INSIDE OF THE STORE, FOR MODULAR COUNTERS, WALLS, EQUIPMENT AND RACKS.
3. MARK LOCATION OF WALLS, FRONT COUNTERS AND ALL PRIVACY WALLS ON THE FLOOR TO BE READY FOR NEW CONSTRUCTION, SPRAY WITH CLEAR COAT.
4. SCOPE ROUTE OF ASSEMBLY MOVEMENT OF UNITS FROM STAGING TO PHARMACY INSTALL LOCATION AND COORDINATE REMOVAL OF ANY OBSTACLES WITH STORE PLANNING FIELD PROJECT MANAGER.

FIELD VERIFICATION
1. VERIFY ABOVE CEILING AND CONFIRM IF THERE ARE WALLS TO DECK OR CEILING JOISTS AND WIRE MESH.
2. VERIFY OPENING DIMENSIONS WHERE FRONT COUNTERS WILL INSTALL.
3. VERIFY LOCATION OF AP PANEL, TYPICALLY IN CEILING NEAR RESTROOM.

STORE PLANNING RESPONSIBILITY

1. COORDINATE WITH GC ANY EQUIPMENT OR RACK RELOCATION & SUPPORT REQUIRED FOR THE OVERNIGHT PHASING OF THE PROJECT.
2. ARRANGE FOR OVERNIGHT PHARMACIST PRESENCE.

DATA CABLING AND ASSET PROTECTION (AP) RESPONSIBILITY

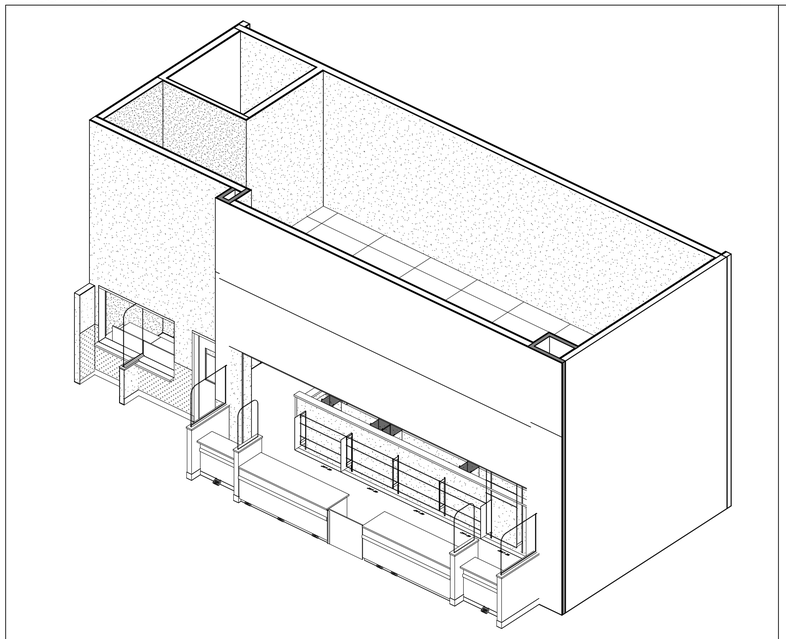
1. SURVEY SCOPE OF WORK AND DEVELOP PLAN FOR PRE-ROUGH-IN INSTALLATION FROM REGISTER EQUIPMENT RACK ROOM AND STAGING OF CABLE ABOVE CEILING GRID.
2. INSURE ALL COMPONENTS ARE ORDERED IN A TIMELY MANNER AND SECURED ON-SITE.

ELECTRICIAN RESPONSIBILITY

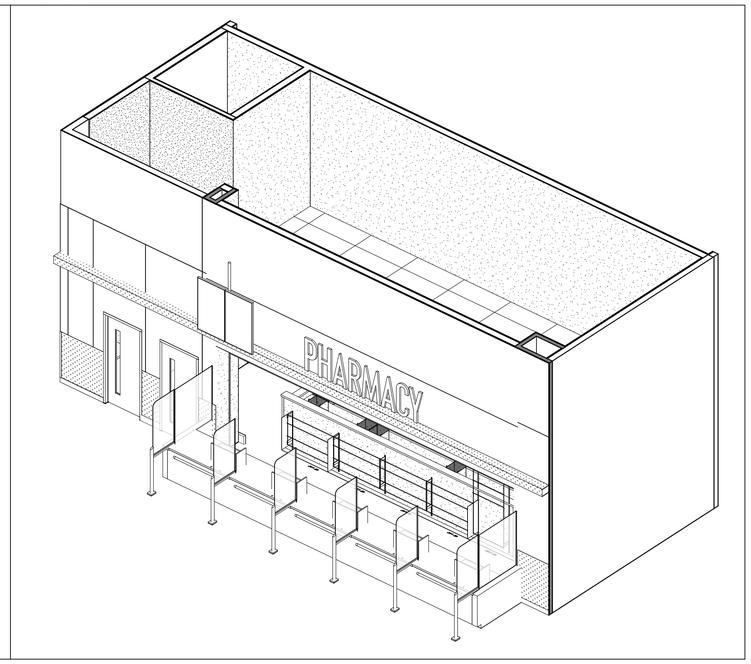
1. REVIEW PLANS AND SCOPE WORK EARLY TO DETERMINE REQUIREMENTS PARTICULAR TO WORK PREVIOUSLY DONE ON SPECIFIC PROJECT.
2. DETERMINE IF J-BOX INSTALLATION IS PERMITTED FOR RELOCATING SWITCH OR POWER RECEPTACLES.
3. VERIFY WITH INSPECTOR WHAT INSPECTIONS WILL BE REQUIRED BASED ON SCOPE OF WORK. DEFINE SCHEDULE FOR INSPECTIONS.
4. WILL INSPECTOR (FOR A FEE) COME ON CALL DURING THE NIGHT TO APPROVE ELECTRICAL REVISIONS IF NOT, IS IT POSSIBLE TO POWER Existing LIGHTS AND NEW REGISTERS WITHOUT AN INSPECTION UNTIL THE FOLLOWING DAY(s)
5. VERIFICATION OF KEY ELECTRICAL COMPONENTS AND ROUTING PRIOR TO NIGHT ONE, LOCATE ELECTRICAL PANEL AND ANY COMPONENTS CURRENTLY ROUTED UNDER SLAB.
6. THE PHARMACY FREEZERS AND REFRIGERATORS MUST REMAIN ON AT ALL TIMES. IF POWER TO THE PANEL MUST BE TURNED OFF, PROVISIONS MUST BE MADE TO PROVIDE POWER TO THE UNITS
7. VERIFY LOCATION OF ALL ELECTRICAL PANELS USED FOR PHARMACY POWER

PRE-CONSTRUCTION (WEEK PRIOR)	NIGHT 1	NIGHT 2	NIGHT 3	NIGHT 4	NIGHT 5	NIGHT 6 AND 7
• GC TO COORDINATE WITH ALL TRADES AND VENDORS ON SCHEDULING, STAGING AND FIELD VERIFICATION, PRIOR TO CONSTRUCTION START COMPLETE AS MUCH AS IS POSSIBLE. • GC TO CHECK IN ALL MODULAR COMPONENTS AND VERIFY ALL EQUIPMENT AND RACKS ARE ONSITE PRIOR TO START OF CONSTRUCTION • GC TO COORDINATE WITH STORE PLANNING THE RELOCATION OF SALES FLOOR RACKS. • GC TO COORDINATE RELOCATION OF SALES FLOOR LIGHTING AFFECTED BY DEMO AND NEW CONSTRUCTION. • COORDINATE PHARMACY CLEAN UP, RESTROOM MUST BE KEPT ACCESSIBLE FOR DATA AND ELECTRICAL BOXES, STORE NON-SECURE ITEMS SUCH AS PRINTER PAPER OUTSIDE OF PHARMACY. ACCESS TO PHARMACY WILL BE LIMITED, A PHARMACIST MUST BE PRESENT	• WORK WILL BE DONE ON THE EXTERIOR AND INTERIOR OF THE PHARMACY. • CABLING AND ALARM TEAMS TO PRE-PULL AND STAGE ABOVE CEILING • PRE-PULL ELECTRICAL FOR FOLLOWING EVENINGS • COMPLETE AS MUCH AS IS POSSIBLE TO PREP FOR FOLLOWING NIGHT WORK, FOR EXAMPLE, LAYOUT EXTENTS OF MODULAR WALLS ON FLOOR TO BE SURE THERE ARE NO ISSUES, SPRAY WITH CLEAR COAT TO KEEP FOR INSTALLATION	"NO WORK"	• THE GOAL IS TO COMPLETE AS MUCH WORK DONE ON THE INTERIOR OF THE PHARMACY AS POSSIBLE PRIOR TO OTHER TRADES NEEDING ACCESS, FOR EXAMPLE, REMOVE CARPET, REMOVE AND REINSTALL PILL BAYS AND FILL PODS, REPLACE CARPET AND PAINT.	• INSTALL THE FRONT COUNTER INCLUDING MODULAR WALLS AND COUNTERTOP. WORK MUST BE DONE BY 3AM FOR CABLING TO CONTINUE. • INSTALL MODULAR PANELS AND DOORS REQUIRED TO SECURE PHARMACY • IT IS CRITICAL THAT THE NEW EQUIPMENT AT THE FRONT COUNTER WORK STATIONS AND PHARMACIST'S BENCH ARE OPERATIONAL BY OPENING OF BUSINESS IN THE MORNING. • INSTALL CEILING TILE, LIGHTS AND MECHANICAL SYSTEMS.	• COMPLETE ALL WORK ON THE INSIDE OF THE PHARMACY, INCLUDING ALL REMAINING FINISHES, FINAL EQUIPMENT, AND PILL BAYS INSTALLATION, AS NEEDED. THIS IS THE LAST NIGHT A PHARMACIST IS AVAILABLE FOR WORK ON THE INSIDE OF THE PHARMACY. • INSTALL HSR MODULAR WALLS, MODULAR CEILING, EQUIPMENT AND ANY REMAINING POWER, MECHANICAL, FIRE, AND DATA. • PREP EXTERIOR OF PHARMACY FOR PAINT. • PHARMACY MUST BE SECURABLE WITH OUT A PHARMACIST PRESENCE INCLUDING LOCKS AND ALARMS. • COORDINATE INSPECTION ON EXISTING WALL IN HEALTH SERVICE ROOM WHERE BLOCKING , ELECTRICAL, DATA IS ADDED	• FINAL FINISHES AND COMPLETE PROJECT. • PAINT EXTERIOR OF PHARMACY. • FINISH INSIDE OF HEALTH SERVICES ROOM. NO PHARMACIST OR ACCESS TO PHARMACY WILL BE AVAILABLE

EXISTING



AFTER



SHEET NOTES

1. THIS SHEET FOR REFERENCE ONLY, REFER TO CONSTRUCTION DOCUMENTS FOR THE COMPLETE SCOPE OF WORK

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CONSULTANTS

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GABRIEL JOHN MASSA
NEW JERSEY LICENSED ARCHITECT
21941
STATE OF NEW JERSEY
NEPTUNE, N.J.
01/08/2025

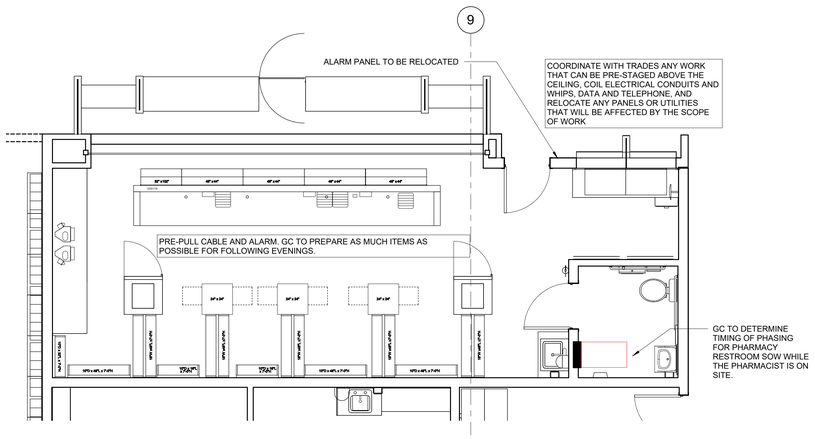
PHASING PLANS

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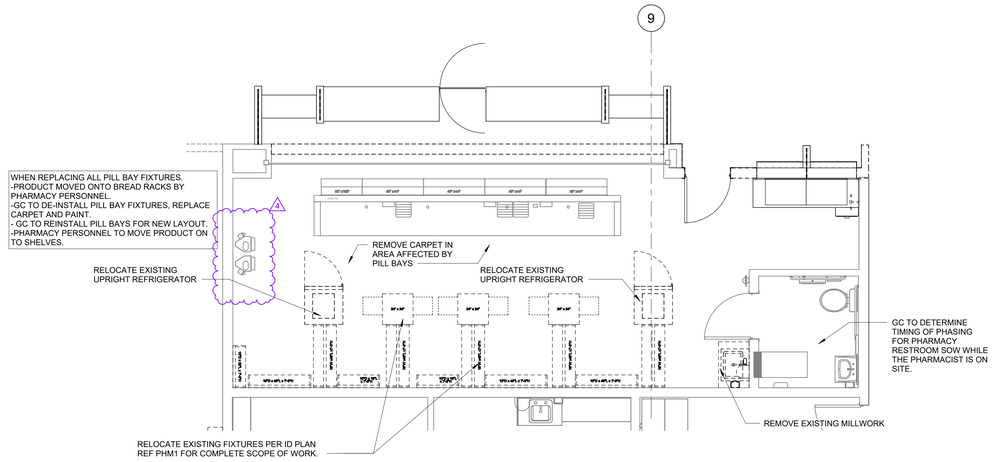
SHEET NOTES

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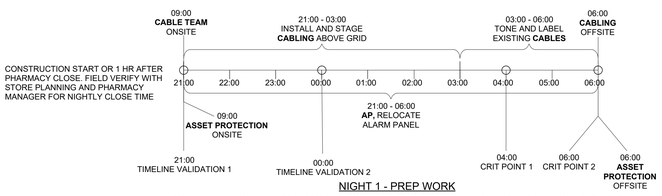
1 NIGHT 1

1/4" = 1'-0"



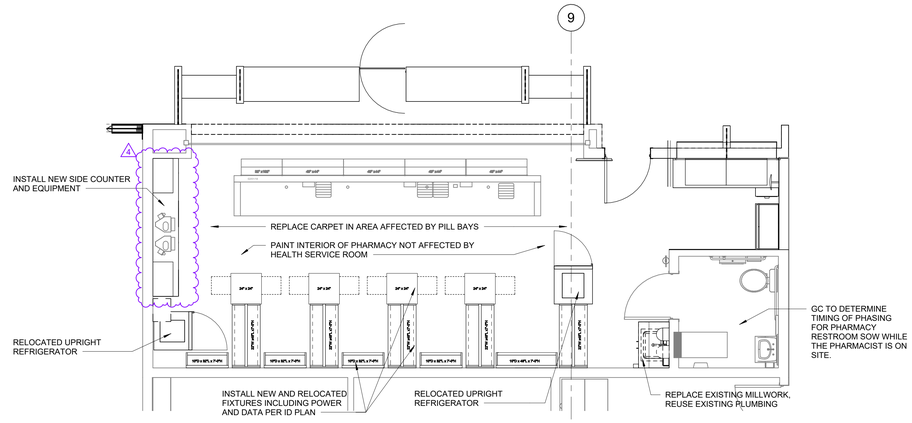
2 NIGHT 3 DEMO

1/4" = 1'-0"



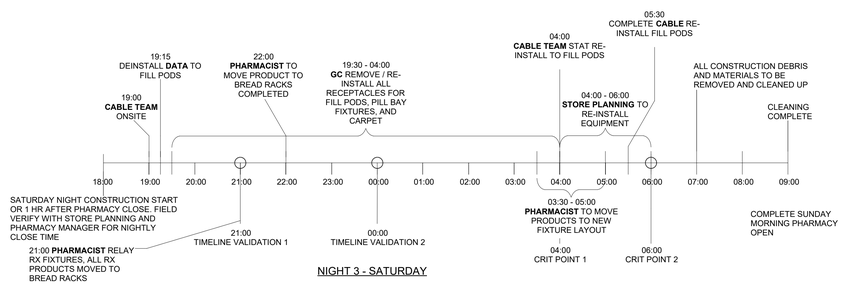
NIGHT 1 - PREP WORK

NIGHT #1 (AT LEAST ONE NIGHT PRIOR TO CONSTRUCTION BEGINNING ANY RX WORK): PHARMACIST REQUIRED
AP TECH TO RELOCATE ALARM PANEL
CABLE TEAM TO PRE-PULL ALL NEW DATA CABLE AND STAGE ABOVE CEILING
CABLE TEAM TO TONE AND LABEL EXISTING CABLING



3 NIGHT 3

1/4" = 1'-0"



NIGHT 3 - SATURDAY

NIGHT #3: PHARMACIST REQUIRED
PHARMACIST TO REMOVE PRODUCTS FROM PILL BAY AREA (START PRIOR TO TEAMS WORKING ONSITE)
INTERIOR RELAY OF EXISTING PHARMACY FIXTURES
ALL RX PRODUCT MOVED ONTO BREAD RACKS
CABLE TEAM TO DE-INSTALL DATA LINES AT ALL FILL PODS
GC ELECTRICIAN TO DE-INSTALL ALL RECEPTACLES AT FILL PODS
GC DE-INSTALL ALL PILL BAY FIXTURES
GC TO REMOVE CARPET; INSTALL NEW CARPET
GC TO PAINT WALLS IN AREA OF NEW CARPET
GC TO RE-INSTALL ALL PILL BAYS AND FILL PODS TO NEW LAYOUT
GC ELECTRICIAN TO INSTALL NEW RECEPTACLES TO ALL NEW FILL PODS
PHARMACIST MOVE PRODUCT TO NEW FIXTURE LAYOUT; START WITH COMPLETED SIDE AND FOLLOW GC AS THEY ARE READY
CABLE TEAM TO RE-INSTALL DATA CABLE TO ALL NEW FILL PODS
STORE PLANNING REINSTALL EQUIPMENT

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2800 NC HWY 24-87
STORE NO.: 06958.1000
194-23-047 PROTO
JOB NUMBER: 182

ISSUE BLOCK

4	ADD2	09/10/2025

CHECKED BY:	MMA
DRAWN BY:	WM
PROTO CYCLE:	07/26/24
DOCUMENT DATE:	01/08/25

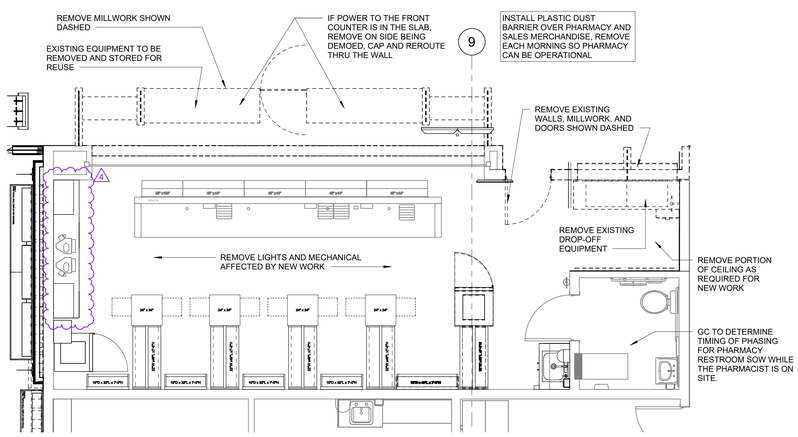
GABRIEL JOHN MASSA 9941 NORTH CAROLINA REGISTERED ARCHITECT NEPTUNE, N.J.

9/10/2025

PHASING PLANS

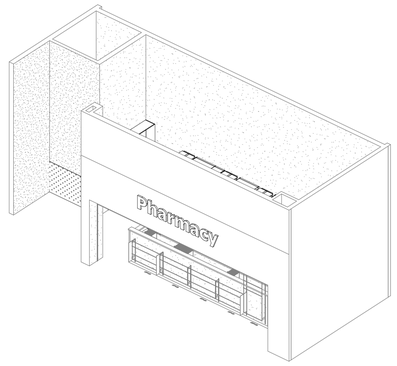
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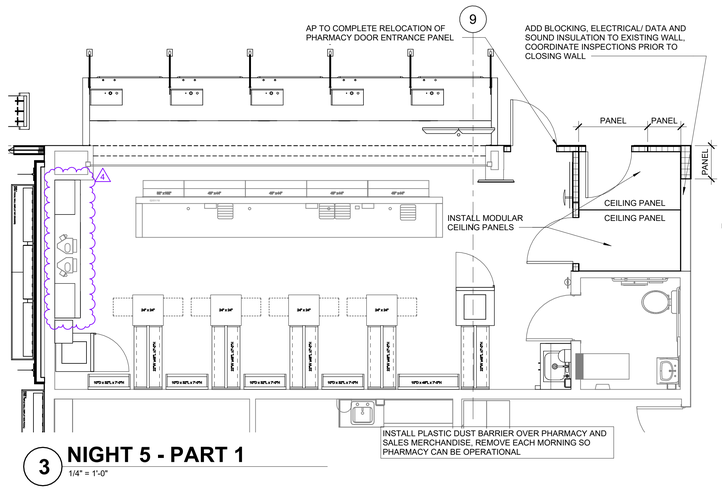


1 NIGHT 4 DEMO

1/4" = 1'-0"

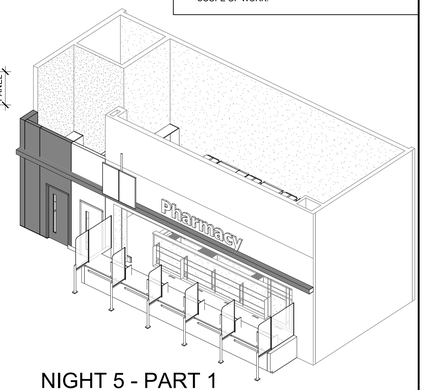


NIGHT 4 DEMO

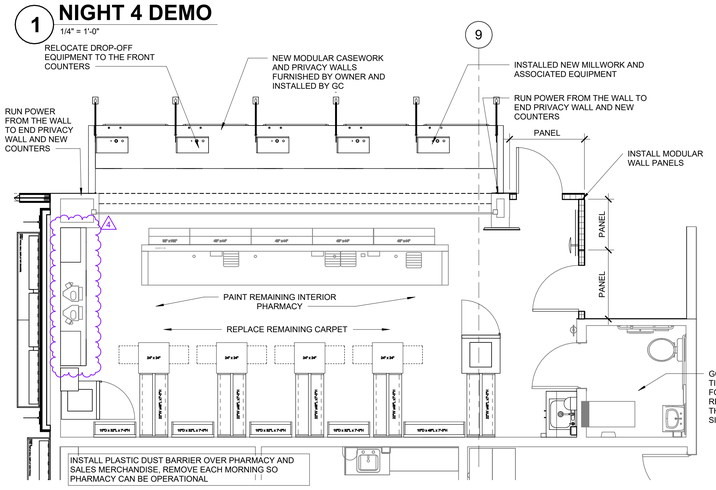


3 NIGHT 5 - PART 1

1/4" = 1'-0"

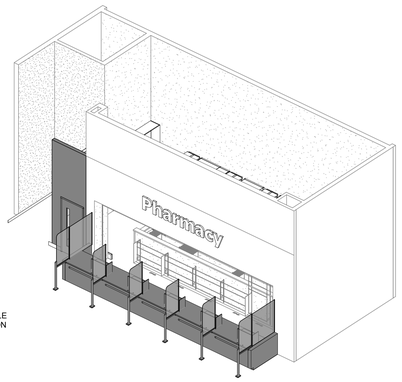


NIGHT 5 - PART 1

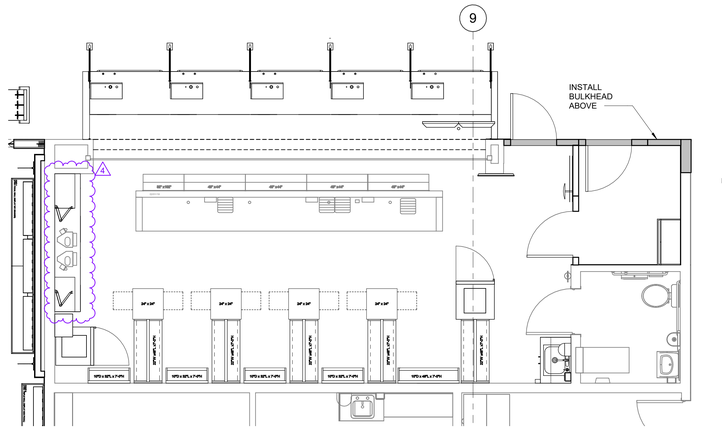


2 NIGHT 4

1/4" = 1'-0"

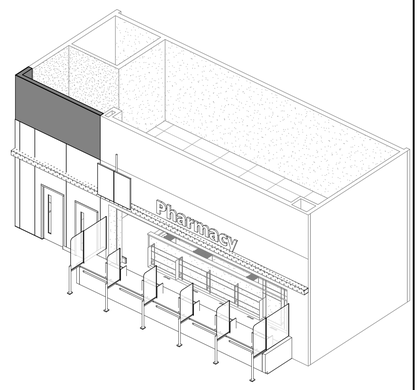


NIGHT 4

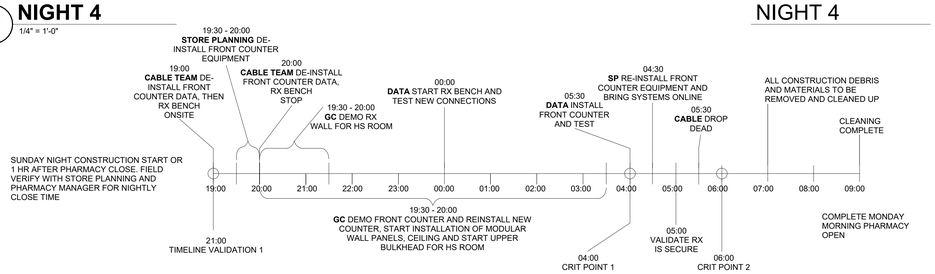


4 NIGHT 5 - PART 2

1/4" = 1'-0"

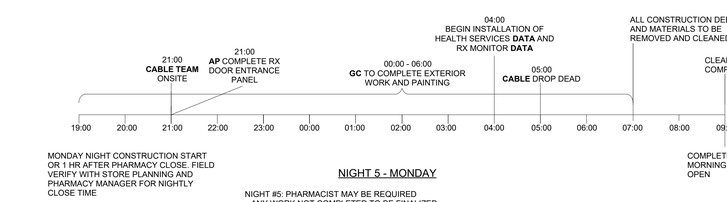


NIGHT 5 - PART 2



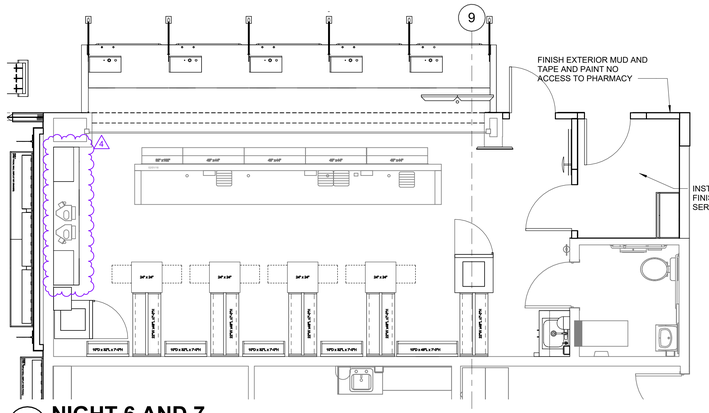
NIGHT 4 - SUNDAY

NIGHT #4: PHARMACIST REQUIRED
CABLE TEAM TO DE-INSTALL EXISTING FRONT COUNTER DATA CABLE
STORE PLANNING PPS TO DE-INSTALL ALL EXISTING FRONT COUNTER SYSTEMS EQUIPMENT
GC TO START DEMO OF EXISTING PHARMACY WALL WHERE NEW HS ROOM WILL BE BUILT
GC DEMO EXISTING FRONT COUNTER AND INSTALL NEW FRONT COUNTER
CABLE TEAM TO REINSTALL DATA CABLE TO NEW FRONT COUNTER; TEST NEW CONNECTIONS
STORE PLANNING TO RE-INSTALL FRONT COUNTER SYSTEMS EQUIPMENT AND BRING ALL SYSTEMS ON LINE
GC TO START INSTALLATION OF THE NEW MODULAR WALL PANELS AND MODULAR CEILING PANELS AND COMPLETE UPPER BULKHEAD CONSTRUCTION FOR HS ROOM



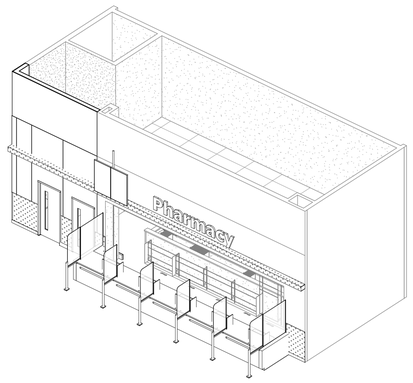
NIGHT 5 - MONDAY

NIGHT #5: PHARMACIST MAY BE REQUIRED
ANY WORK NOT COMPLETED TO BE FINALIZED
GC TO COMPLETE EXTERIOR WORK, FINAL FINISHES AND PAINTING
CABLING TO INSTALL HEALTH SERVICES DATA AND EXTERIOR RX MONITOR/DATA
PHARMACY SCOPE OF WORK COMPLETE



5 NIGHT 6 AND 7

1/4" = 1'-0"



NIGHT 6 AND 7

SHEET NOTES

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GABRIEL JOHN MASSA
NEW JERSEY
21941
LICENSED ARCHITECT
NEPTUNE, NJ

9/10/2025

PHASING PLANS

SHEET:
PHM5.2

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ITEMS TO BE RELOCATED FROM THE EXISTING VISION CENTER: STORE PLANNING TO RELOCATE EQUIPMENT. GC TO RELOCATE MILLWORK AND CONNECT TEMPORARY POWER. WM TO INSTALL TEMPORARY DATA. COORDINATE WITH VC MANAGER.

CURRENT POS CASH WRAP:
- REGISTER
- PIN PAD
- SCANNER
- PRINTER / FAX
- CISCO PHONE
- BLACK BOX FOR HIPAA STORAGE OR SHREDDER
- IPADS

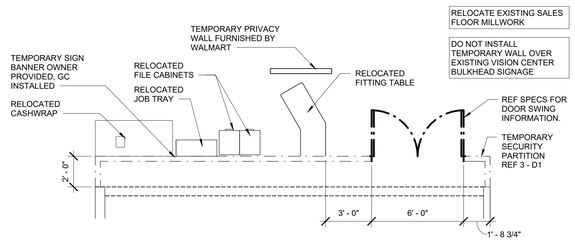
FITTING TABLE:
- ONE BOSS TERMINAL WITH PRIVACY SCREEN
- 2-3 CHAIRS
- PATIENT MIRRORS

FILING CABINETS:
- 2 DRAWER FILING CABINET FOR CURRENT PATIENT RECORDS AWAITING ORDER PICK UP / CAN ALSO BE USED FOR STORAGE OF CONTACT LENSES

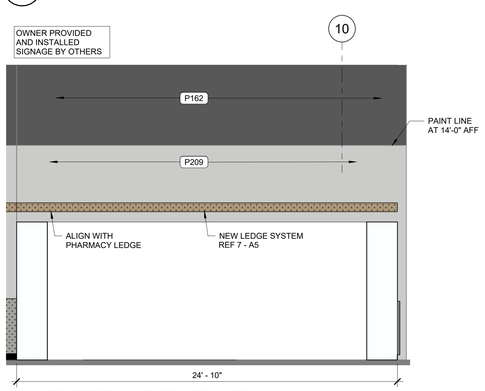
CABINET:
- ONE TRAY PROCESSING LOCKING CABINET TO STORE DISPENSING TRAYS FOR PATIENT ORDERS / CAN ALSO BE USED FOR STORAGE OF CONTACT LENSES

OPTICAL EQUIPMENT:
- LENSOMETER
- FRAME WARMER
- CURRENT TOOLS FOR ADJUSTMENTS (TOOLS, SCREWS, PARTS, ETC)
- ULTRASONIC CLEANER
- TRACER
- PUPILOMETER
- TC70 OR MC40

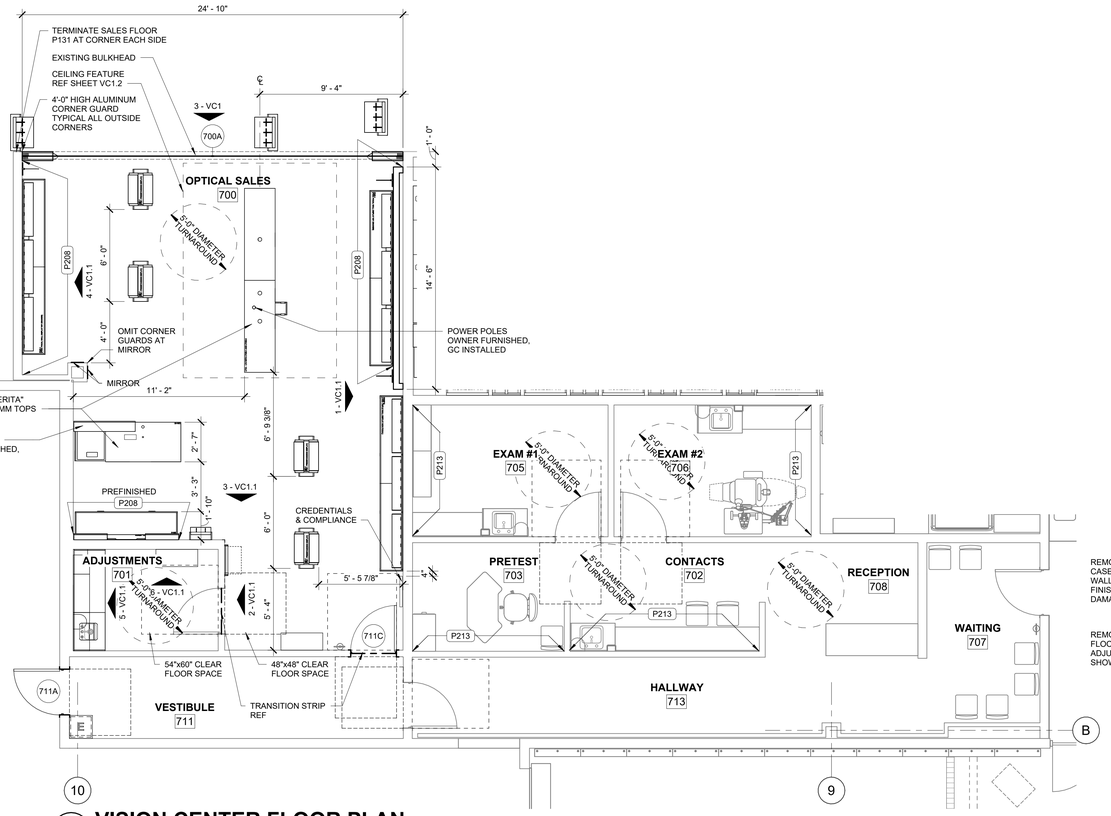
SPACE ON CASH WRAP AREA TO DISPLAY:
- LICENSES (VC AND OPTICIAN LICENSES AS REQUIRED BY LAW)
- HOURS OF OPERATIONS SIGN
- HIPAA, LEP, ADA AND OTHER COMPLIANCE SIGNS



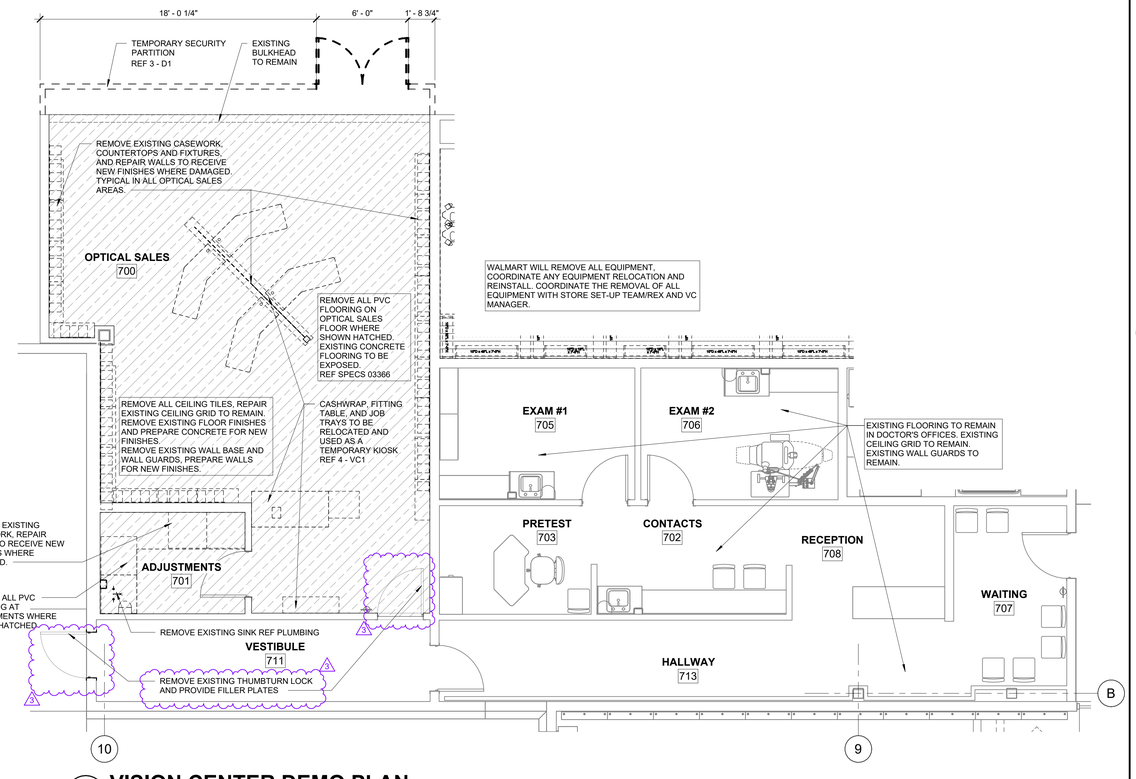
4 TEMPORARY VISION CENTER PLAN
1/4" = 1'-0"



3 EXTERIOR ELEVATION
1/4" = 1'-0"



2 VISION CENTER FLOOR PLAN
1/4" = 1'-0"



1 VISION CENTER DEMO PLAN
1/4" = 1'-0"

DEMOLITION NOTES

1. ALL WALL COVERING TO BE REMOVED FROM EXISTING WALLS. PATCH AND REPAIR ALL GYPSUM BOARD SURFACES TO MATCH ADJACENT AND READY TO RECEIVE FINISHES.
2. REMOVE ALL ELECTRICAL OUTLETS ABOVE EXISTING SLAT WALL. REMOVE OUTLET BOX, CONDUIT, AND ELECTRICAL WIRE BACK TO NEAREST J-BOX. CAP WIRE AT J-BOX. PATCH AND REPAIR WALL TO MATCH ADJACENT.

PFC NOTES

1. WORK SHALL BE ACCOMPLISHED IN A MANNER THAT WILL NOT AFFECT CURRENT VISION CENTER OPERATIONS.
2. ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO PROTECT VISION CENTER EQUIPMENT DURING REPAIR WORK.
3. GENERAL CONTRACTORS SHALL LEAVE VISION CENTER IN A CLEAN AND OPERATIONAL MANNER AT THE END OF EACH WORK SESSION.
4. PATCH AND REPAIR ANY EXISTING DAMAGED WALLS AND PREPARE TO RECEIVE FINISHES TO MATCH ADJACENT EXISTING WALL.

COLOR LEGEND

P8	SW-7005 PURE WHITE
P162	SW-7674 PEPPERCORN
P206	SW-7000 IBIS WHITE
P207	SW-1465 CONTEMPORARY GREY
P208	SW-6953 CANDID BLUE
P209	SW-7064 PASSIVE GRAY
P213	SW-6506 VAST SKY

SHEET NOTES

1. ALL ELECTRICAL WORK INCLUDING DATA AND POWER DISCONNECTION BY GC.
2. REMOVAL OF POWER POLES AND REINSTALLATION OF NEW POLES BY GC. DATA LINES BY OTHERS.
3. GENERAL CONTRACTOR RESPONSIBLE FOR ALL ELECTRICAL AND PLUMBING WORK.
4. GC RESPONSIBLE FOR ANCHORING ALL MILLWORK TO PREVENT OVERTURNING, REFERENCE MILLWORK MANUFACTURERS INSTRUCTIONS FOR CLEAT HEIGHTS.
5. CAULK ALL COUNTERS AND BACKSPLASHES TO THE WALL
6. PATCH AND REPAIR WALLS AT ANY REMOVED ELECTRICAL BOXES.
7. ALL NEW COUNTERS, CASEWORK, SHELVES, MILLWORK, DISPENSERS, ARE TO BE FURNISHED BY WALMART AND INSTALLED BY GC.
8. COMPUTER SYSTEMS AND EQUIPMENT FURNISHED AND INSTALLED BY OWNER UNO.
9. INTERIOR PLAN DIMENSIONS ARE TO FACE OF FINISH AT EXISTING WALLS.
10. IF SOUND ATTENUATION INSULATION DOES NOT EXIST IN EXISTING EXAM ROOM WALLS ADJACENT TO RESTROOM, INSTALL CONTINUOUS SOUND ATTENUATION INSULATION FLOOR TO CEILING.
11. IF SOUND ATTENUATION INSULATION DOES NOT EXIST IN EXISTING EXAM ROOM CEILING, INSTALL NEW SOUND ATTENUATION INSULATION ABOVE THE CEILING.
12. UNLESS FLOOR BOXES ARE STILL IN SERVICE EXISTING FLOOR BOXES IN VISION CENTER TO BE ABANDONED, REF ELECTRICAL FOR DEMOLITION OF EXISTING CIRCUITRY. REMOVE AND INFILL ABANDONED FLOOR RECESSED ELECTRICAL AND DATA OUTLETS. PATCH AND REPAIR SUBSTRATE FOR NEW FLOOR FINISHES.
13. ALL NEW WALLS IN OPTICAL SALES SHALL HAVE 1/2" PLYWOOD UNDER 1/2" GYPSUM BOARD.
14. PATCH AND REPAIR ALL WALL AREAS TO MATCH ADJACENT SURFACES AND FINISHES. NEW WALL SURFACES IN OFFICES TO RECEIVE MATCHING ORANGE PEEL TEXTURE IF EXISTING.
15. INSTALL BASE AFTER INSTALLATIONS OF OWNER FURNISHED CABINETS.
16. RELOCATE EXISTING PAPER TOWEL AND SOAP DISPENSERS.
17. PAINT ALL HOLLOW METAL DOORS AND FRAMES P162 INCLUDING DOCTORS AREA. DO NOT PAINT PLASTIC DOOR SLAB.
18. ALL WOOD MATERIAL SHOWN IN DETAILS ON THIS SHEET SHALL BE FIRE RETARDANT. TREATED WOOD (FRTW) IN ACCORDANCE WITH INTERNATIONAL BUILDING CODE SECTION 603.1. THIS INCLUDES ALL REFERENCES TO "BLOCKING", "NAILERS", "PLYWOOD", "SHEATHING", AND IF APPLICABLE "WOOD STUDS".
19. DO NOT DISTURB / MOVE DOCTORS EQUIPMENT IN EXAM / PRETEST. CAREFULLY PAINT AROUND AND DO NOT REPLACE FLOOR TILE THAT WOULD DISTURB DOCTORS EQUIPMENT.
20. PROVIDE ADEQUATE PROTECTION FOR EQUIPMENT.

700 OPTICAL SALES

WALLS
- PAINT ALL WALLS P207, UNO.
- REFERENCE PLAN FOR LOCATIONS OF ACCENT WALL COLOR, P208.
- INSTALL NEW BASE RB5.
- MATCH ADJACENT WALL TEXTURE FOR NEW WALLS.

FLOOR
- REMOVE ALL PVC FLOORING. EXISTING CONCRETE TO BE POLISHED CONCRETE.
- TRANSITION STRIPS REFERENCE 8-VC2.

CEILING
- INSTALL ALL NEW ACT3 TILES AND INTERMEDIATE TEES, AS REQUIRED FOR NEW LIGHT FIXTURES.
- PAINT EXISTING GRID (P8).
- REFERENCE ELECTRICAL AND MECHANICAL FOR NEW LIGHT AND DIFFUSER LOCATIONS.
- REFERENCE FIRE PROTECTION FOR MODIFICATIONS TO THE SPRINKLER SYSTEM.
- INSTALL NEW CEILING FEATURE, EXISTING GRID TO REMAIN.
- REF SHEET SA1 FOR CEILING SCHEDULE.

MILLWORK
- ALL NEW OWNER FURNISHED, GC INSTALLED CASEWORK.

701 ADJUSTMENTS

WALLS
- PAINT ALL WALLS P207, UNO.
- INSTALL NEW BASE RB5

FLOOR
- REMOVE ALL PVC FLOORING AND REPLACE W/ LVT2P
- TRANSITION STRIPS REFERENCE 8-VC2.

CEILING
- INSTALL ALL NEW ACT3 TILES AND INTERMEDIATE TEES, AS REQUIRED FOR NEW LIGHT FIXTURES.
- PAINT EXISTING GRID (P8).
- CLEAN AIR GRILLES AND DIFFUSERS, SECURITY GLOBES, AND SPRINKLER HEADS. REPLACE ANY DAMAGED ITEMS.
- INSTALL NEW LED LIGHT FIXTURES IF EXISTING ARE NON-LED. CLEAN ALL EXISTING LED LIGHT FIXTURES.
- REF SHEET SA1 FOR CEILING SCHEDULE.

MILLWORK
- ALL NEW OWNER FURNISHED, GC INSTALLED CASEWORK.

705, 706 VISION EXAM: 702, 703, 707, 708, 711, 713 VISION CENTER

WALLS
- PAINT ALL WALLS P207, UNO.
- PLASTIC BASE IS EXISTING TO REMAIN. REPLACE DAMAGED PORTIONS.
- REPAIR DAMAGED WALLS. REFERENCE PLAN FOR LOCATIONS OF ACCENT WALL COLOR P213.

FLOOR
- REPLACE EXISTING FLOORING WITH LVT2P

CEILING
- INSTALL ALL NEW ACT3 TILES AND INTERMEDIATE TEES, AS REQUIRED FOR NEW LIGHT FIXTURES.
- PAINT EXISTING GRID (P8).
- CLEAN AIR GRILLES AND DIFFUSERS, SECURITY GLOBES, AND SPRINKLER HEADS. REPLACE ANY DAMAGED ITEMS.
- REF MEP FOR LED LIGHT REPLACEMENTS. CLEAN ALL EXISTING LED LIGHT FIXTURES REMAINING.
- REF SHEET SA1 FOR CEILING SCHEDULE.

MILLWORK
- EXISTING CASEWORK TO REMAIN, UNO.

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CONSULTANTS

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JOB NUMBER: 194-23-047 PROTO: 182

ISSUE BLOCK

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DRAWN BY:	WM
PROTO CYCLE:	07/26/24
DOCUMENT DATE:	01/08/25

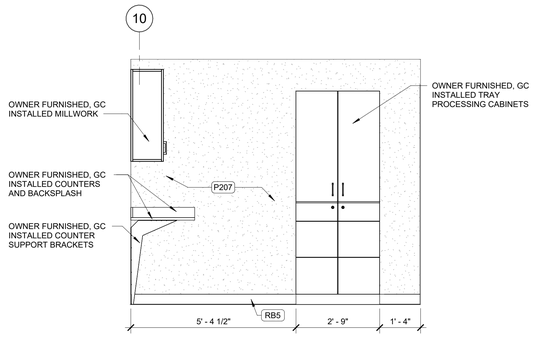
GABRIEL JOHN MASSA 9941 NEPTUNE, NJ
08/12/2025

VISION CENTER

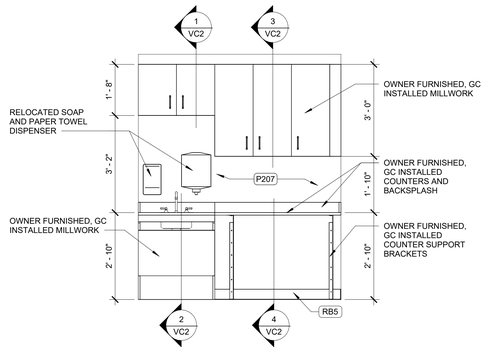
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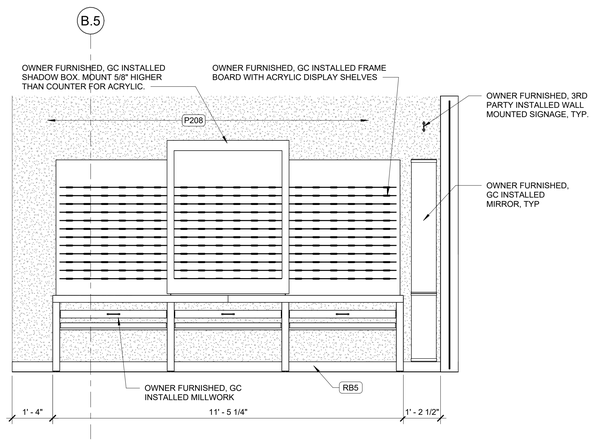
COLOR LEGEND	
P207	CONTEMPORARY GRAY SW#1465
P208	CANDID BLUE SW#6953
RB5	RESILIENT BASE NO. 179 STEEL, WITH TOE



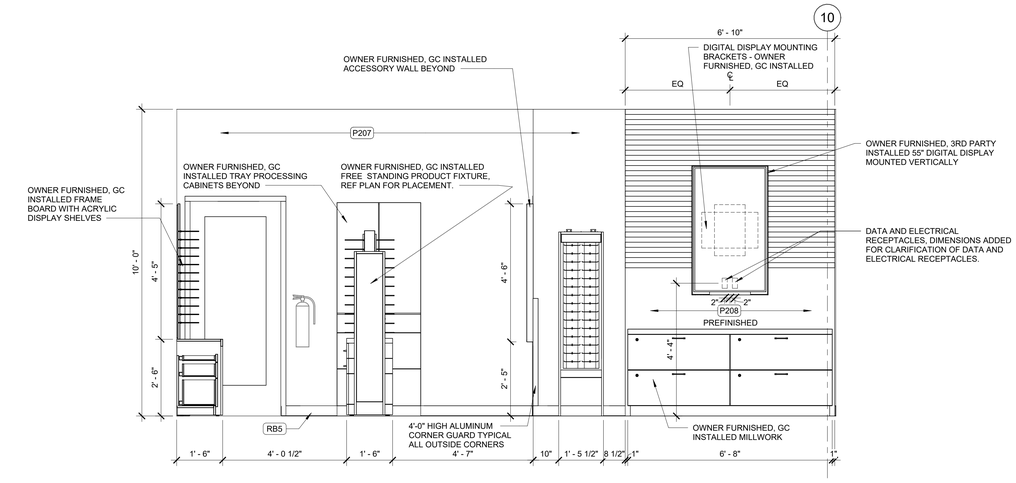
6 ADJUSTMENTS ELEVATION
1/2" = 1'-0"



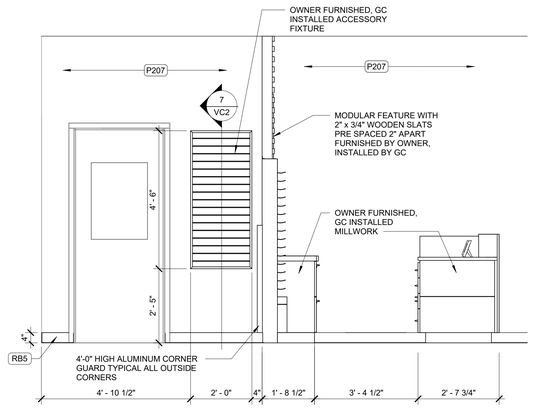
5 ADJUSTMENTS ELEVATION
1/2" = 1'-0"



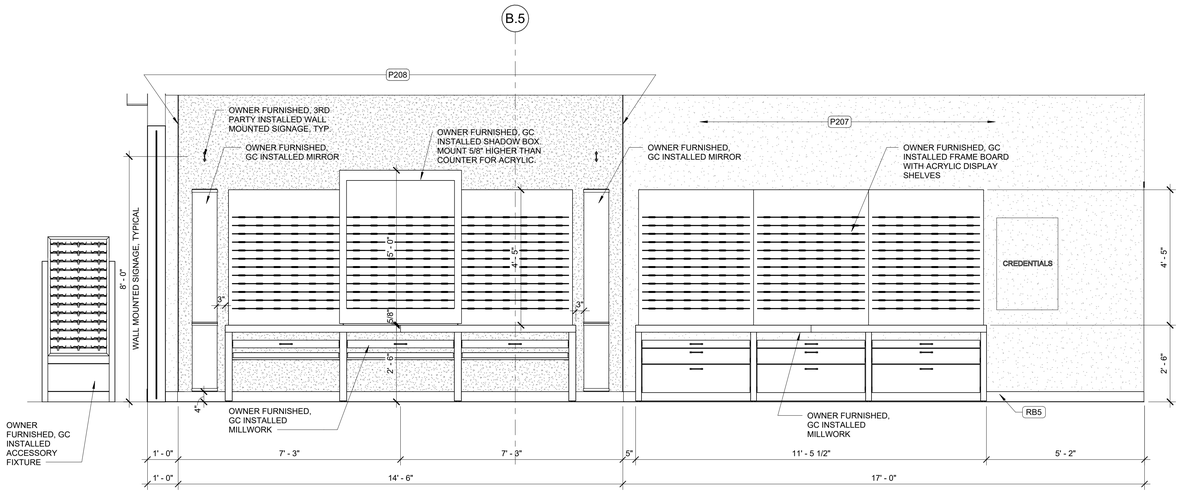
4 OPTICAL SALES ELEVATION
1/2" = 1'-0"



3 OPTICAL SALES ELEVATION
1/2" = 1'-0"



2 OPTICAL SALES ELEVATION
1/2" = 1'-0"



1 OPTICAL SALES ELEVATION
1/2" = 1'-0"

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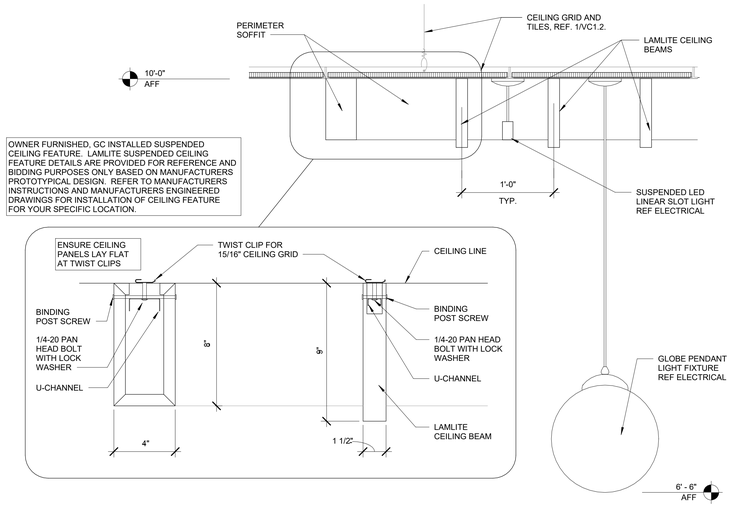
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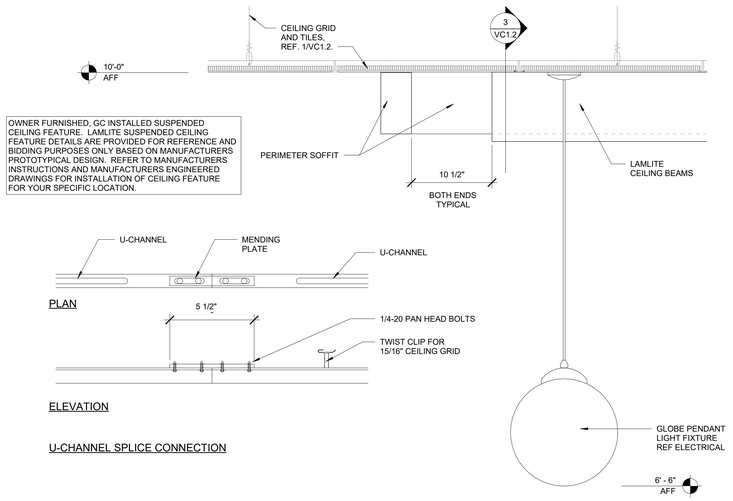
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JOB NUMBER: 194-23-047 PROTO: 182

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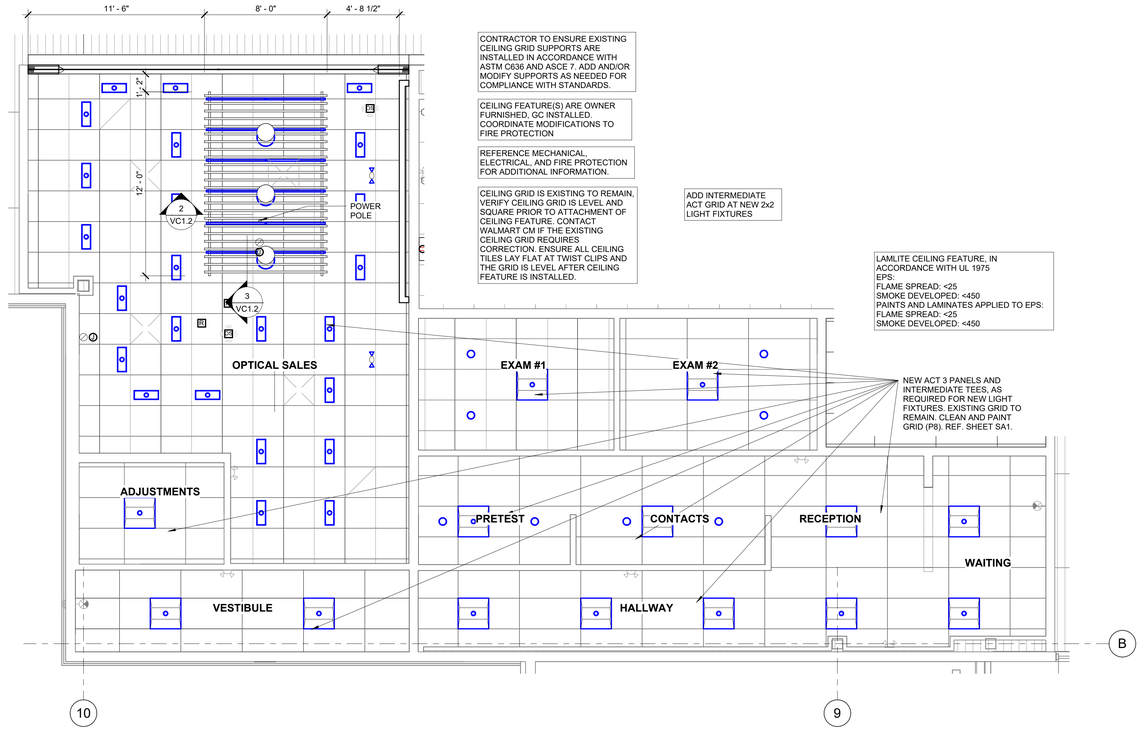
3 LAMLITE CEILING FEATURE - DIRECT MOUNT

1 1/2" = 1'-0"



2 LAMLITE CEILING FEATURE - DIRECT MOUNT

1 1/2" = 1'-0"



1 VISION CENTER REFLECTED CEILING PLAN

1/4" = 1'-0"

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GABRIEL JOHN MASSA 9941 REGISTERED ARCHITECT NEPTUNE, NJ
01/08/2025

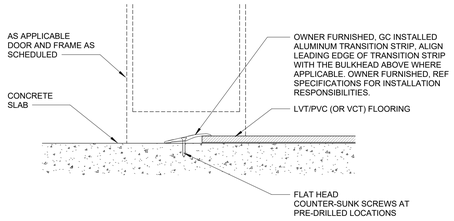
REFLECTED CEILING PLANS AND DETAILS

SHEET: VC1.2

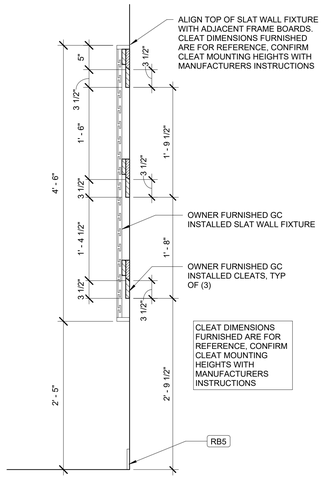
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SHEET NOTES

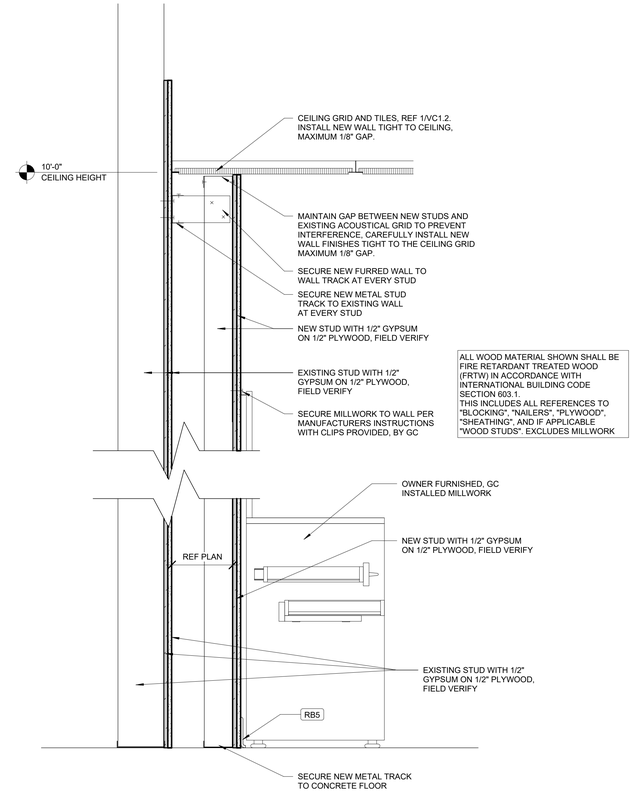
1. ALL ELECTRICAL WORK INCLUDING DATA AND POWER DISCONNECTION BY GC.
2. REMOVAL AND INSTALLATION OF NEW POWER POLES BY GC. DATA LINES BY OTHERS.
3. GENERAL CONTRACTOR RESPONSIBLE FOR ALL ELECTRICAL AND PLUMBING WORK.
4. GC RESPONSIBLE FOR ANCHORING ALL MILLWORK TO PREVENT OVERTURNING. REFERENCE MILLWORK MANUFACTURERS INSTRUCTIONS FOR CLEAT HEIGHTS.
5. CAULK ALL COUNTERS AND BACKSPLASHES TO THE WALL



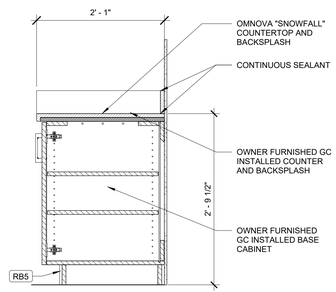
8 TRANSITION STRIP
12" = 1'-0"



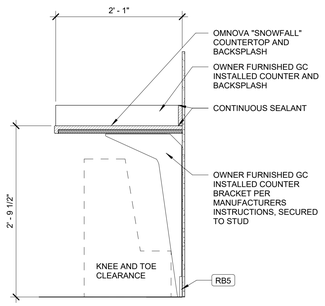
MILLWORK ACCESSORY SLAT WALL FIXTURE (OWNER FURNISHED, GC INSTALLED)
1" = 1'-0"



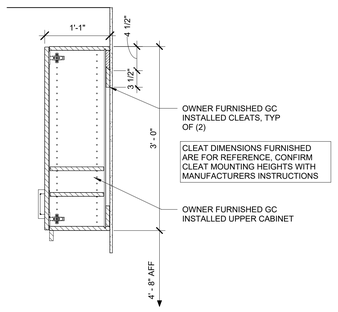
6 FEATURE WALL DETAIL
1 1/2" = 1'-0"



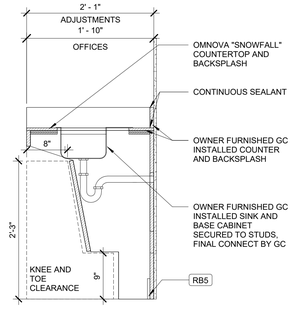
5 MILLWORK SECTION (OWNER FURNISHED, GC INSTALLED)
1" = 1'-0"



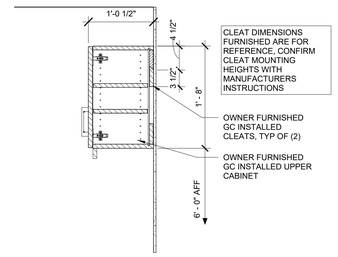
4 MILLWORK SECTION (OWNER FURNISHED, GC INSTALLED)
1" = 1'-0"



3 MILLWORK SECTION (OWNER FURNISHED, GC INSTALLED)
1" = 1'-0"



2 MILLWORK SECTION (OWNER FURNISHED, GC INSTALLED)
1" = 1'-0"



1 MILLWORK SECTION (OWNER FURNISHED, GC INSTALLED)
1" = 1'-0"

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GABRIEL JOHN MASSA — 29471 — REGISTERED ARCHITECT — NEPTUNE, N.J.
01/08/2025

SECTIONS

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REFRIGERATED CASE LEGEND

WDS NUMBER	QTY.	CASE LENGTH/ DOOR NO.	DESCRIPTION	MFR OR SUPPLIER	MODEL NO.	NOTES
RD1069.652	2	8FT	SELF-SERVICE MULTI-DECK	HILL PHOENIX INC	QC-R-35	5
RD1069.652	2	12FT	SELF-SERVICE MULTI-DECK	HILL PHOENIX INC	QC-R-35	5
RD2020.642	1	12FT	SERVICE MULTI-DECK MERCHANDISER W SLIDING FRONT DOORS	HILL PHOENIX SPECIALTY PRODUCTS	BMD-R	5
RD4000.052	1	4FT	MULTI-DECK (FRENCH DOORS)(RETROFIT)	HILL PHOENIX INC	OSDM-NRG	5
RD8045.443	2	2DR	REACH-IN MERCHANDISER (SELF-CONTAINED)-2 DOOR	TRUE FOOD SERVICE EQUIPMENT INC	TVM-48SL-HC-VM0 1	5
RH0135.000	1	8FT	SERVICE SELF-SERVICE	CUSTOM DELIS EQUIPMENT CO INC	ILW-CB-SS	5

SERVICE DELI EQUIPMENT LEGEND

WDS NUMBER	QTY.	DESCRIPTION	NOTES
D007A	2	MOBILE STAND	D007A

MISC. GROCERY EQUIPMENT LEGEND

WDS NUMBER	QTY.	DESCRIPTION	NOTES
MG0058	1	COMMERCIAL SOLID DOOR FREEZER	---
MG0060	1	UPRIGHT 2-DOOR REFRIGERATOR	-
MG128	1	36" Deli Pass Thru Counter	

WALK-IN COMPONENTS AND DOOR LEGEND

WDS NUMBER	QTY.	DESCRIPTION	NOTES
R0620.001	3	SWING DOOR WITH STRIP CURTAIN (42X90)	
R0700.001	2	PUSH THROUGH VESTIBULE (48X90)	
R5003.000	1	WALK-IN PANELS	10,11

STAINLESS STEEL EQUIPMENT LEGEND

WDS NUMBER	QTY	DESCRIPTION	NOTES
SS021	1	3-COMPARTMENT 30X94 (18X24) WITH 18IN DB	

WEDGE EQUIPMENT LEGEND

WDS NO.	QTY.	DESCRIPTION	MFR OR SUPPLIER	MODEL NO.	NOTES
W500	1	18 X 34 WEDGE	QUALSERV SOLUTIONS LLC	WMDW18ANG	

GENERAL WEDGE NOTES:
A. GC FURNISHED AND INSTALLED
B. SIDE SCRIBE PIECES PROVIDED WITH WEDGE, FIELD CUT TO FIT
C. WEDGE TOP AND BACK PIECE PROVIDED WITH WEDGE, FIELD CUT TO FIT

GROCERY DRY WEDGE KIT CONTACT:
QUALSERV
(479) 646-8386 x-310 ATTN: DION CHAMBERS
TWO WEEK MINIMUM LEAD TIME

EQUIPMENT NOTES

1. REF SHEET A1 FOR EQUIPMENT LOCATION
2. 3-COMPARTMENTS, PREP SINKS, AND MOP SINKS TO BE FURNISHED WITH FAUCETS WITH INTEGRAL CHECK VALVES
3. OWNER DETERMINES FINAL QUANTITY BETWEEN SLICERS AND/OR AUTO SLICERS
4. QUANTITY AND TYPE BY OWNER - RACKS/SHELVING SHOWN ARE FOR POSSIBLE STORAGE AND PREP LOCATIONS
5. FINISHES FOR OWNER SUPPLIED EQUIPMENT ARE SPECIFIED PER BID ALIGNMENT BETWEEN OWNER AND OEM
6. HAND SINK INSTALLED TO 2'-9" WORKING HEIGHT
7. SPLIT-TEMP APPLICATION SHOWN BY PRODUCT LISTING ASSIGNED ABOVE AND BELOW THE EQUIPMENT NUMBER, REF REFRIGERATION DRAWINGS FOR SPLIT-TEMP APPLICATION
8. GC TO INSTALL OWNER FURNISHED SOAP AND PAPER TOWEL DISPENSER, REF GROCERY INTERIOR ELEVATIONS FOR MOUNTING LOCATIONS
9. OWNER TO SUPPLY COMPACTORS AND BALERS BY JV MFG (CRAM-A-LOT) OR PHILADELPHIA TRAMRAIL
10. EQUIPMENT SUPPLIED BY OWNER
11. EQUIPMENT INSTALLED BY EQUIPMENT SUPPLIER
12. EQUIPMENT INSTALLED BY OWNER
13. REFRIGERATED CASE FASCIA INSTALLED BY RC - COORDINATE WITH OWNER TO INSTALL FASCIA FROM CASE CANOPY EDGE TO FACILITATE INSTALLATION OF OWNER INSTALLED SIGNAGE - INSTALL PER MANUFACTURER'S INSTRUCTIONS AND COORDINATE WITH UTILITY CONNECTIONS
14. SCALE STAND FURNISHED BY OEM AND INSTALLED BY GC
15. RETROFIT DOORS/LIDS PROVIDED BY OWNER AND INSTALLED BY EQUIPMENT SUPPLIER
16. REF SPECS FOR SPECIAL INSTRUCTIONS

GENERAL EQUIPMENT NOTES

A. ALL EQUIPMENT IS SUPPLIED BY OWNER, INSTALLED BY GC, GC TO MAKE FINAL UTILITY CONNECTIONS, UNLESS OTHERWISE NOTED
B. REF SPECS FOR REFRIGERATED AND HOT DISPLAY CASES FOR SUPPLIED BY, INSTALLED BY, AND FINAL CONNECT BY
C. REF SPECS FOR MFR AND MODEL NUMBERS NOT LISTED IN EQUIPMENT LEGENDS
D. OWNER TO SUPPLY SS FIXTURES BY WIN-HOLT

COLOR LEGEND

P131	WHITE FLOUR SW#7102
P162	PEPPERCORN SW#7674

KEYNOTES

1.55	DIAMOND PLATE REFRIGERATED CASE FLOOR MOUNTED RAILING OWNER FURNISHED GC INSTALLED

SHEET NOTES

1. STUD WALL DIMENSIONS ARE TO FACE OF STUDS
2. ROUTE ALL UTILITY SERVICE LINES, PIPES AND CONDUIT WITHIN STUD WALLS WHEREVER POSSIBLE ON COOLER/FREEZER PANELS IN FOOD PREP AREAS WHERE UTILITIES MUST BE EXPOSED, CONTRACTOR TO HAVE OPTION OF FOLLOWING:
   a. SURFACE MOUNT UTILITIES WITH NON-CORROSIVE ANCHORS; SEAL BOTH SIDES OF PIPE/CONDUIT TO PANEL CONTINUOUSLY WITH SEALANT
   b. INSTALL UTILITIES 1/2" OFF FACE OF PANEL TO ALLOW FOR CLEANING; USE ONLY NON-CORROSIVE MATERIALS FOR SPACERS AND ANCHORS
   c. COVER UTILITIES WITH 20 GAUGE STAINLESS STEEL BENT PLATES MOUNTED TO WALL WITH NON-CORROSIVE ANCHORS; APPLY CONTINUOUS SEALANT ALONG EDGES AND JOINTS
3. PROVIDE CONT USDA APPROVED SEALANT AT ALL JOINTS BETWEEN MATERIALS ON WALLS AND FLOORS IN FOOD PREPARATION COOLER AND FREEZER AREAS
4. WALLS AND INFILL OF EXISTING OPENINGS ARE TO MATCH CONSTRUCTION AND FINISHES OF ADJACENT EXISTING WALLS
5. PROPER INSTALLATION OF JOINT SEALANTS IS CRITICAL TO MEETING WALMART QUALITY ASSURANCE STANDARDS
   a. PROVIDE SEALANTS IN ACCORDANCE WITH DRAWINGS AND SPECS, REF SPECS FOR SEALANT SCHEDULE
6. ALL JOINTS BETWEEN DISSIMILAR MATERIALS SHALL BE SEALED AS REQD FOR A COMPLETE AND PROPER INSTALLATION, REGARDLESS OF WHETHER SHOWN ON DRAWINGS OR INDICATED IN SPECS
   a. SUCH JOINTS NOT SHOWN OR SCHEDULED SHALL BE SEALED WITH SEALANTS AS RECOMMENDED BY MFR FOR SPECIFIC APPLICATION
7. INTERIOR SEALANTS USED IN FOOD PREPARATION AREAS SHALL MEET REQUIREMENTS FOR USE IN USDA REGULATED FACILITIES
8. PROVIDE STEEL CLOSURE PANELS AT ALL VERTICAL GAPS AND HORIZONTAL GAPS 52" OR LOWER BETWEEN REFRIGERATED CASES, WALLS AND/OR EQUIPMENT.
9. COORDINATE REMOVAL AND DISPOSAL OF EXISTING REFRIGERATED CASES AND FIXTURES WITH MECHANICAL SERVICES CONSTRUCTION MANAGER.
10. COORDINATE REMOVAL AND DISPOSAL OF EXISTING REFRIGERATED CASES AND FIXTURES WITH INSTALLATION OF REFRIGERATED CASES AND FIXTURES
    a. EXISTING REACH-IN FROZEN CASES TO BE RELOCATED OR REMOVED SHALL BE USED ON A TEMPORARY BASIS DURING CONSTRUCTION OF NON-SERVICE SEAFOOD AREA
    b. TEMPORARY CASES SHALL BE REMOVED ONCE CASES ARE DELIVERED AND OPERATIONAL
11. DIMENSIONS OF REFRIGERATED CASES ARE TO OUTERMOST POINTS OF CASES; ENDCAPS AND BUMPERS ARE CONSIDERED PART OF CASE, WHERE THEY OCCUR
12. ALL NON-MOVEABLE EQUIPMENT INCLUDING SINKS, OVENS, AND REFRIGERATED EQUIPMENT SHALL BE SEALED TO WALLS
    a. BASE OR LEGS SHALL BE SET IN A BED OF SEALANT WITH EXCESS REMOVED
    b. MOVEABLE EQUIPMENT SHALL NOT BE SEALED
13. ALL COOLER BOX MODIFICATIONS TO BE PERFORMED BY COOLER/FREEZER MANUFACTURER, RELATED SLAB WORK BY GC
14. COOLER PANEL MFR'S TO FURNISH AND INSTALL LINERS, DOORS, PANELS, DOOR HARDWARE, STRIP CURTAINS, BATTEN STRIPS, MATERIALS, ETC. (WHERE INDICATED ON DRAWINGS)
15. COORDINATE RE-SKINNING OF EXISTING CASES TO REMAIN WITH SEPARATE CONTRACTOR
16. REPLACE DAMAGED OVERHEAD REFRIGERATION PIPE INSULATION, REF SHEET SA1 FOR BID ALLOWANCE

902 DELI PREP, 907 BAKERY PREP, 910 DRY PRODUCE PREP, 913 DELI UTILITY

WALLS
- FRP/NRP:
- INSTALL FAUX TILE PANELS, REF FINISH PLAN FOR EXTENTS, REMOVE AND REPLACE WALL ACCESSORIES AS REQ'D
- WHITE FAUX TILE ETR, SPOT REPLACE DAMAGED WALL FINISHES, REF SHEET SA1 FOR BID ALLOWANCE
- GYP BD: PATCH AND REPAIR
- WAINSCOT: REPLACE IF DAMAGED, REF FINISH PLAN
- CUSTOMER VISIBLE BASE: FULL REPLACEMENT
- BASE: SPOT REPLACE DAMAGED, REF SHEET SA1 FOR BID ALLOWANCE

FLOOR
- ETR. SPOT REPLACE DAMAGED FLOORING, REF SHEET SA1 FOR BID ALLOWANCE

CEILING
- REF SHEET SA1 FOR CEILING SCHEDULE

REPAIR / REMOVE / REPLACE
- SS HAND SINKS AND COMPARTMENT SINKS: CLEAN, REPAIR, RESET, AND RE-CAULK DAMAGED SINKS
- REPLACE DAMAGED OUTLETS
- REPLACE DAMAGED OUTLET COVER PLATES WITH BRUSHED SS, INCLUDING BLANK PLATES AND COLUMNS
- CLEAN OR REPLACE DAMAGED DIFFUSERS AND RETURNS AS REQ'D
- REPLACE DAMAGED PARTS FOR IMPACT DOORS

901 SERVICE DELI, 906 BAKERY

WALLS
- INSTALL FAUX TILE PANELS, REF FINISH PLAN FOR EXTENTS, REMOVE AND REPLACE WALL ACCESSORIES AS REQ'D
- WHITE FAUX TILE ETR REF FINISH PLAN FOR EXTENTS, SPOT REPLACE DAMAGED WALL FINISHES, REF SHEET SA1 FOR BID ALLOWANCE
- BASE: FULL REPLACEMENT

FLOOR
- ETR, SPOT REPLACE DAMAGED FLOORING, REF SHEET SA1 FOR BID ALLOWANCE

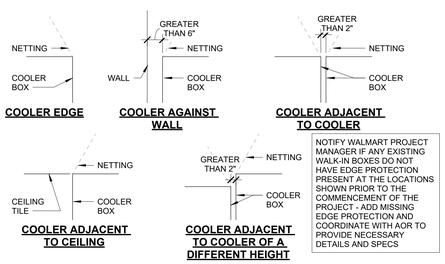
CEILING
- REF SHEET SA1 FOR CEILING SCHEDULE

REPAIR / REMOVE / REPLACE
- REPLACE DAMAGED OUTLETS, NON-ALMOND TO MATCH EXISTING COLOR, REPLACE ALMOND WITH WHITE
- REPLACE CUSTOMER VISIBLE ALMOND OUTLETS WITH WHITE
- REPLACE DAMAGED AND CUSTOMER VISIBLE OUTLET COVER PLATES WITH BRUSHED SS, INCLUDING BLANK PLATES AND COLUMNS
- CLEAN OR REPLACE DAMAGED DIFFUSERS AND RETURNS AS REQ'D
- REPLACE DAMAGED PARTS FOR IMPACT DOORS

PATCH AND REPAIR WALLS AND FINISHES TO MATCH ADJACENT WHERE IMPACTED BY INSTALLATION OR MODIFICATION OF PLUMBING AND/OR ELECTRICAL UTILITIES

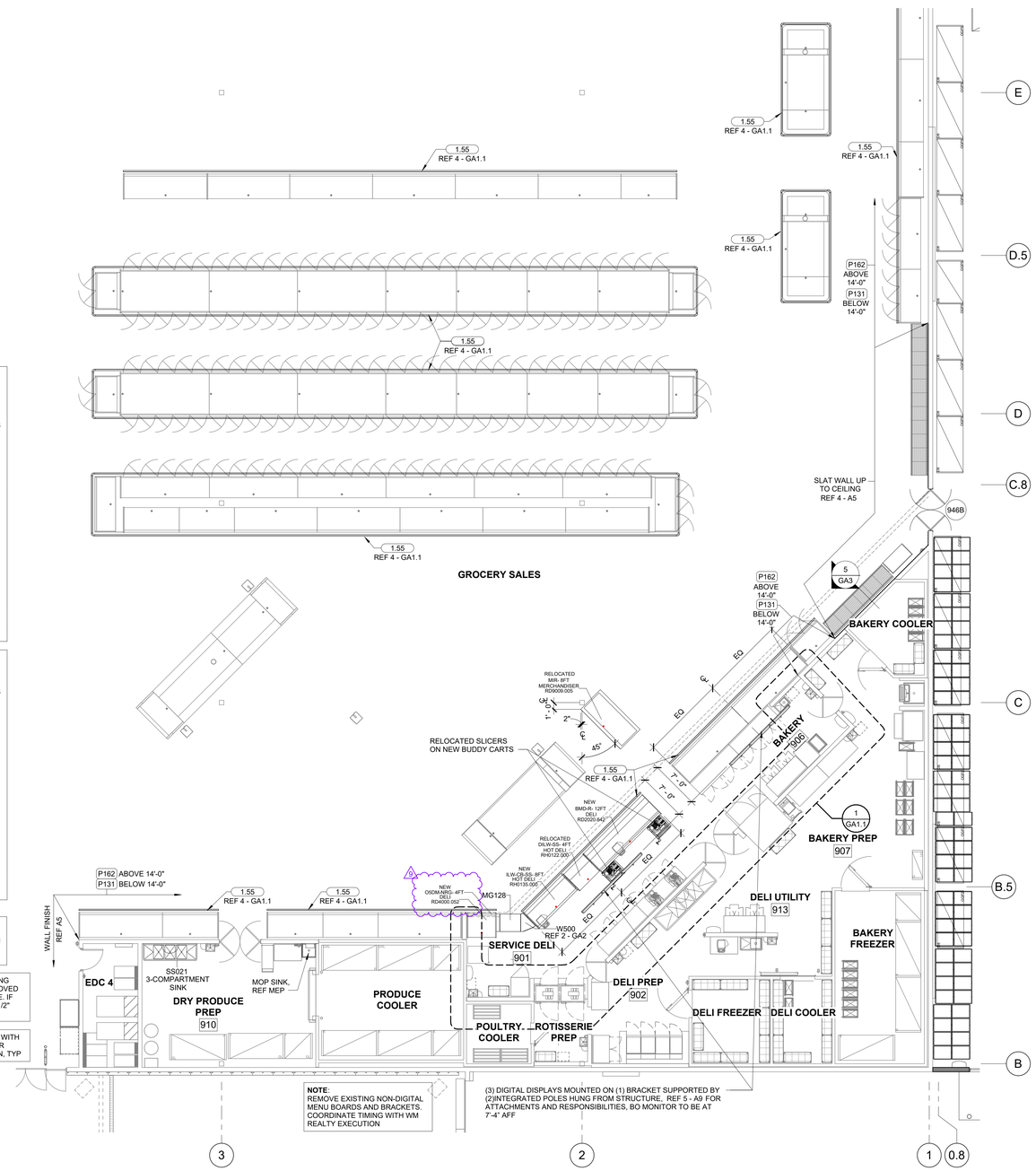
PATCH, REPAIR OR REPLACE EXISTING SUBSTRATE AT LOCATIONS OF REMOVED FINISHES FOR INSTALLATION OF TILE. IF SUBSTRATE IS REQUIRED, INSTALL 1/2" WATER RESISTANT GYP BD

VERIFY EXACT LOCATION OF CASES WITH WALMART CONSTRUCTION MANAGER PRIOR TO STARTING CONSTRUCTION, TYP



NOTIFY WALMART PROJECT MANAGER IF ANY EXISTING WALK-IN BOXES DO NOT HAVE EDGE PROTECTION PRESENT AT THE LOCATIONS SHOWN PRIOR TO THE COMMENCEMENT OF THE PROJECT - ADD MISSING EDGE PROTECTION AND COORDINATE WITH AOR TO PROVIDE NECESSARY DETAILS AND SPECS

2 COOLER EDGE PROTECTION
1/2" = 1'-0"



NOTE:
REMOVE EXISTING NON-DIGITAL MENU BOARDS AND BRACKETS. COORDINATE TIMING WITH WM REALTY EXECUTION

(3) DIGITAL DISPLAYS MOUNTED ON (1) BRACKET SUPPORTED BY (2)INTEGRATED POLES HUNG FROM STRUCTURE. REF 5 - A9 FOR ATTACHMENTS AND RESPONSIBILITIES, BO MONITOR TO BE AT 7'-4" AFF

1 FRONT GROCERY FLOOR PLAN
1/8" = 1'-0"

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3	PR3	08/12/2025
5	CCD1	12/04/2025
9	CCD4	03/25/2026

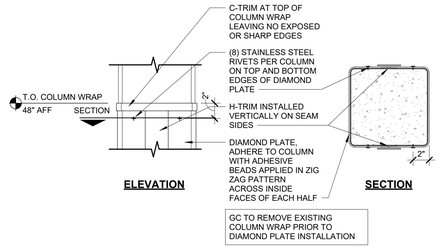
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3/25/2026

FRONT GROCERY PLAN

SHEET:
GA1

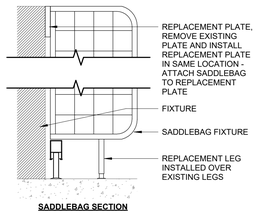
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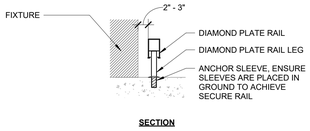
GC TO REMOVE EXISTING COLUMN WRAP PRIOR TO DIAMOND PLATE INSTALLATION

5 DIAMOND PLATE COLUMN WRAP

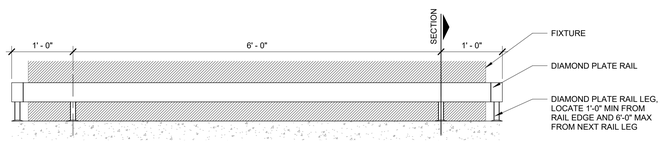
1 1/2" = 1'-0"



SADDLEBAG SECTION



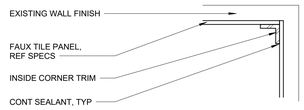
SECTION



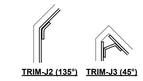
ELEVATION

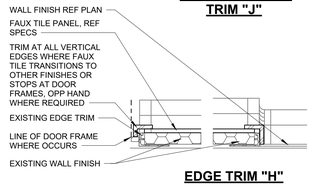
4 DIAMOND PLATE PROTECTION RAIL

1" = 1'-0"

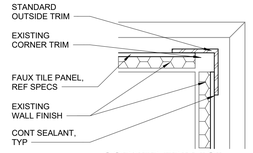


INSIDE CORNER TRIM "J"

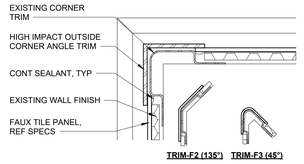




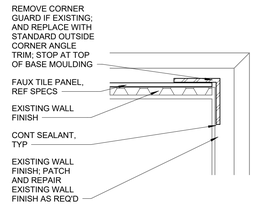
EDGE TRIM "H"



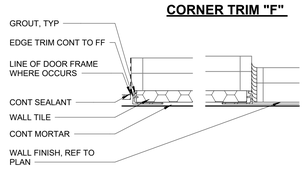
CORNER TRIM "G"



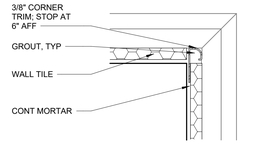
CORNER TRIM "F"



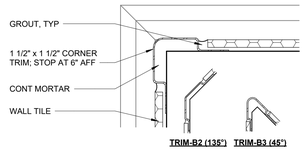
CORNER TRIM "E"



EDGE TRIM "D"

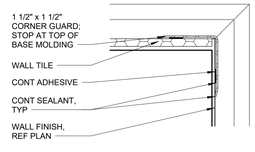


CORNER TRIM "C"



NOTE: TRIM IS FULL HEIGHT UNLESS NOTED OTHERWISE

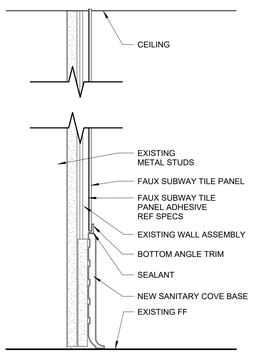
CORNER TRIM "B"



CORNER GUARD "A"

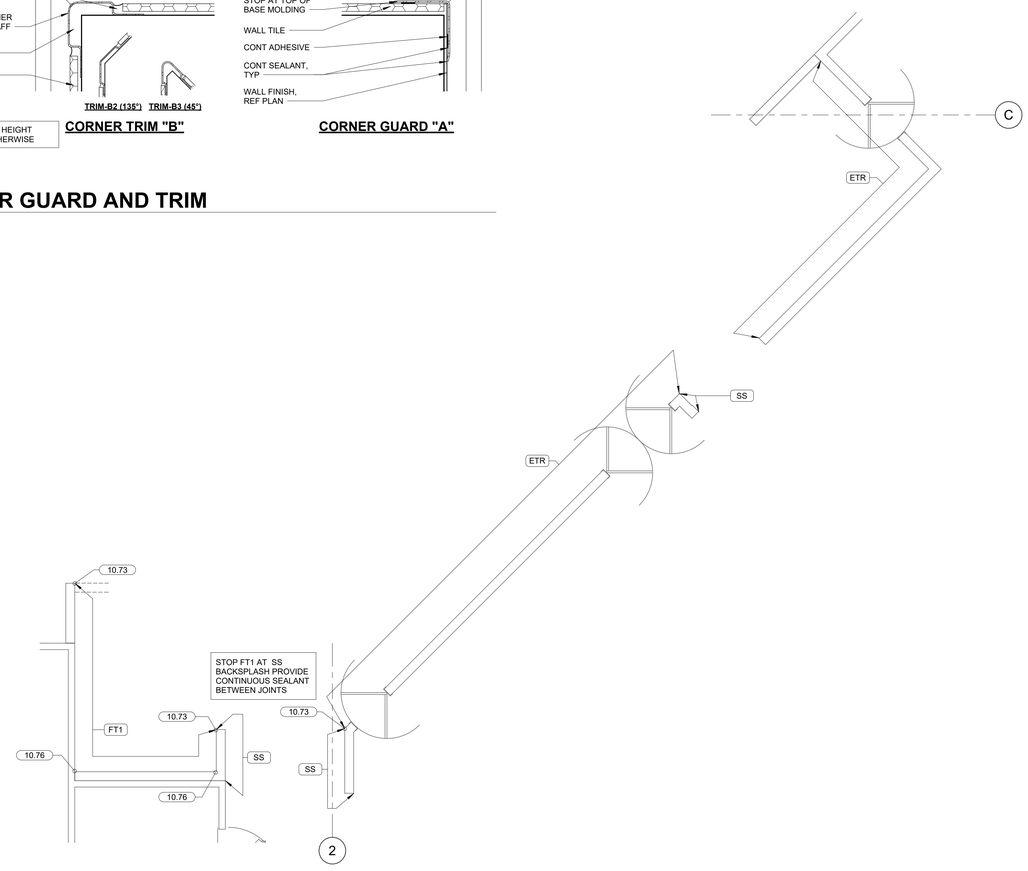
3 CORNER GUARD AND TRIM

6" = 1'-0"



2 FAUX TILE ENLARGED SECTION

3" = 1'-0"



1 FRONT GROCERY FINISH PLAN

1/4" = 1'-0"

COLOR LEGEND	
ETR	EXISTING TO REMAIN
FT1	FAUX SUBWAY TILE (WHITE)
SS	STAINLESS STEEL

KEYNOTES	
10.73	STANDARD OUTSIDE CORNER GUARD TRIM "E", FULL HEIGHT UNLESS NOTED OTHERWISE
10.76	INSIDE CORNER GUARD TRIM "J", FULL HEIGHT UNLESS NOTED OTHERWISE

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CONTEMPORANEOUS TO WITH ITS ISSUE DATE. THE USE OF THESE PLANS FOR USE ON A DIFFERENT PROJECT SITE OR ANOTHER PROJECT REQUIRES THE AUTHORIZATION OF MASSA MANDRIOTA ARCHITECTS AND ENGINEERS. ADDITIONAL FEES MAY BE REQUIRED FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED UNLESS SET FORTH IN THE IAR

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2800 NC HWY 24-87
STORE NO: 06958.1000

JOB NUMBER: 194-23-047 PROTO: 182

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PROTO CYCLE: 07/26/24
DOCUMENT DATE: 01/08/25

GABRIEL JOHN MASSA
REGISTERED ARCHITECT
29847
NORTH CAROLINA
NEPTUNE, NJ
01/08/2025

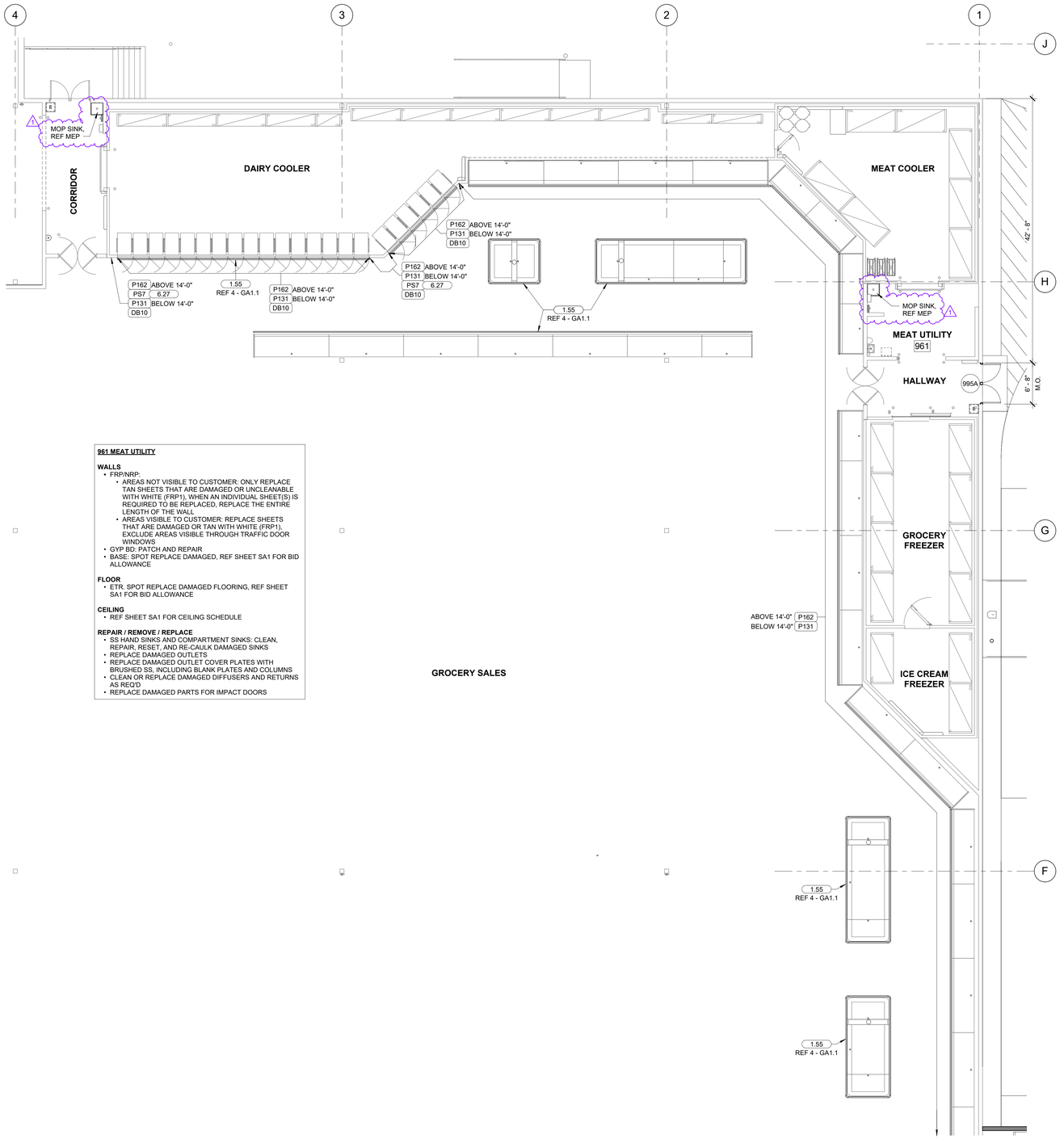
FRONT GROCERY FINISH PLAN

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SHEET NOTES

1. REF SHEET GA1 FOR GROCERY NOTES PERTAINING TO THIS SHEET



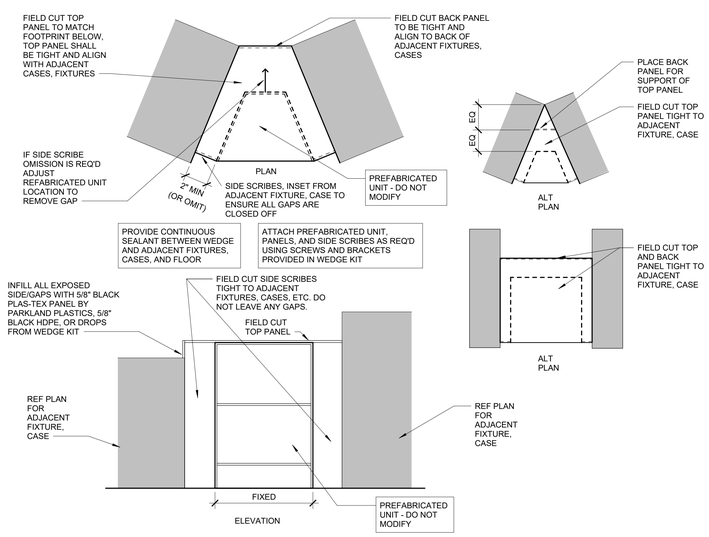
961 MEAT UTILITY

WALLS
- FRP/NRP:
  - AREAS NOT VISIBLE TO CUSTOMER: ONLY REPLACE TAN SHEETS THAT ARE DAMAGED OR UNCLEANABLE WITH WHITE (FRP1), WHEN AN INDIVIDUAL SHEET(S) IS REQUIRED TO BE REPLACED, REPLACE THE ENTIRE LENGTH OF THE WALL
  - AREAS VISIBLE TO CUSTOMER: REPLACE SHEETS THAT ARE DAMAGED OR TAN WITH WHITE (FRP1), EXCLUDE AREAS VISIBLE THROUGH TRAFFIC DOOR WINDOWS
- GYP BD: PATCH AND REPAIR
- BASE: SPOT REPLACE DAMAGED, REF SHEET SA1 FOR BID ALLOWANCE

FLOOR
- ETR: SPOT REPLACE DAMAGED FLOORING, REF SHEET SA1 FOR BID ALLOWANCE

CEILING
- REF SHEET SA1 FOR CEILING SCHEDULE

REPAIR / REMOVE / REPLACE
- SS HAND SINKS AND COMPARTMENT SINKS: CLEAN, REPAIR, RESET, AND RE-CAULK DAMAGED SINKS
- REPLACE DAMAGED OUTLETS
- REPLACE DAMAGED OUTLET COVER PLATES WITH BRUSHED SS, INCLUDING BLANK PLATES AND COLUMNS
- CLEAN OR REPLACE DAMAGED DIFFUSERS AND RETURNS AS REQ'D
- REPLACE DAMAGED PARTS FOR IMPACT DOORS



2 WEDGE KIT
3/4" = 1'-0"

1 REAR GROCERY FLOOR PLAN
1/8" = 1'-0"

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GABRIEL JOHN MASSA — 9941 — LICENSED ARCHITECT — C.NJ — PENNSYLVANIA — NEPTUNE, NJ

7/2/2025

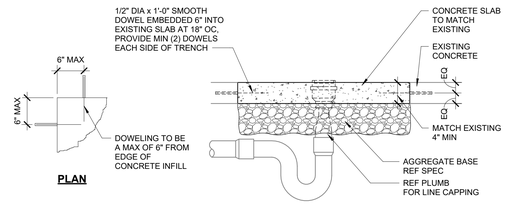
REAR GROCERY PLAN

SHEET: GA2

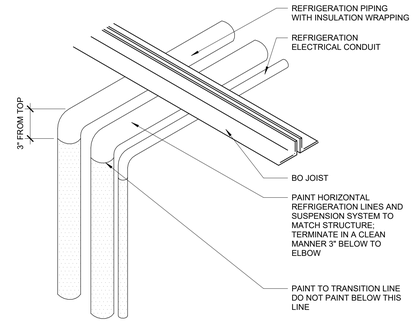
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SANITARY COVE BASE SURFACE PREPARATION REQUIREMENTS

1. REMOVE EXISTING WALL BASE, AT EXISTING WALL CONDITIONS, REMOVE ALL GYP BD BELOW 12" AFF AND REPLACE WITH GLASS-MAT BACKER OF SAME THICKNESS, IF FRP IS IN GOOD CONDITION REPLACE DAMAGED BASE WITH BASE
2. REMOVE AND REPLACE WALL FINISH TO NEAREST JOINT AS REQ'D TO PERFORM GLASS-MATT BACKER INSTALLATION
3. CUT BACK EXISTING QUARRY TILE FLOORING AS REQ'D TO PROVIDE 1" CLEAR FROM FINISHED SURFACE TO EDGE OF TILE
4. REMOVE ALL DEBRIS AND ANY REMAINING GROUT, CLEAN SURFACES AS REQ'D FOR PROPER INSTALLATION OF CONSTRUCTION MATERIAL AND FINISHES
5. INSTALL BUILDING TAPE AND FIBERGLASS MESH TAPE AS INDICATED

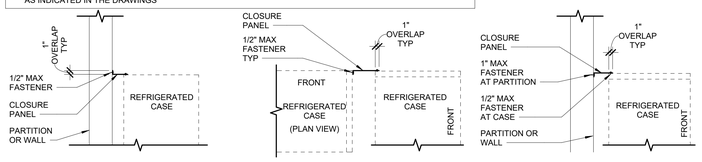


8 SLAB REPLACEMENT DETAIL
3/4" = 1'-0"

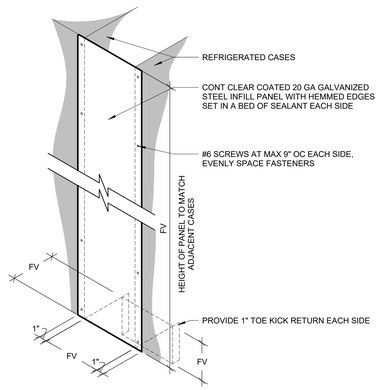


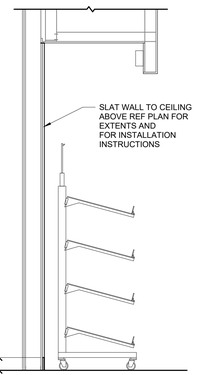
7 REFRIGERATION DROP LINES
1 1/2" = 1'-0"

NOTES:
1. REFRIGERATION CONTRACTOR TO PROVIDE GALVANIZED CLOSURE PANELS AT ALL VERTICAL GAPS AND AT ALL HORIZONTAL GAPS 52" OR LOWER AFF BETWEEN REFRIGERATED CASE, WALLS, AND/OR EQUIPMENT
2. PROVIDE SS CLOSURE PANELS LOCATED IN PREP AREAS
3. REF FLOOR PLANS FOR ALL PARTITION TYPES AND LOCATIONS
4. EASE EXPOSED EDGES TO SMALL UNIFORM RADIUS
5. SET CLOSURE PANEL IN A BED OF SEALANT EACH SIDE
6. FASTEN CLOSURE PANELS WITH #6 PAN HEAD SCREWS AT 9" OC
7. CLOSURE PANELS TO BE FASTENED ONLY TO THE BACK OF THE REFRIGERATED CASE OR END PANEL SKINS AS INDICATED IN THE DRAWINGS

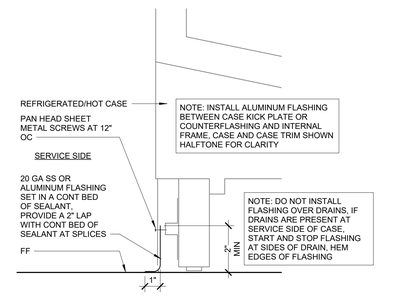


6 CLOSURE PANEL DETAIL
3/4" = 1'-0"

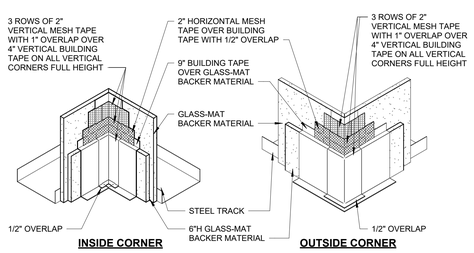


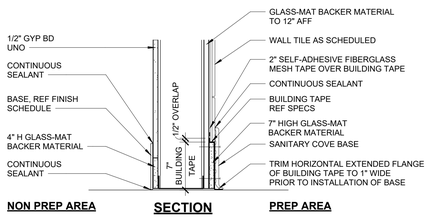


5 SECTION AT BAKERY RACKS
1/2" = 1'-0"

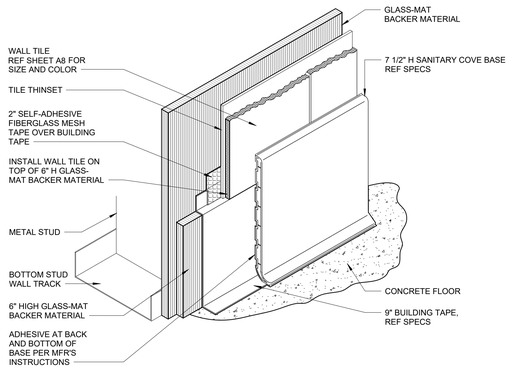


4 CASE FLASHING AT SERVICE DEPT
3" = 1'-0"

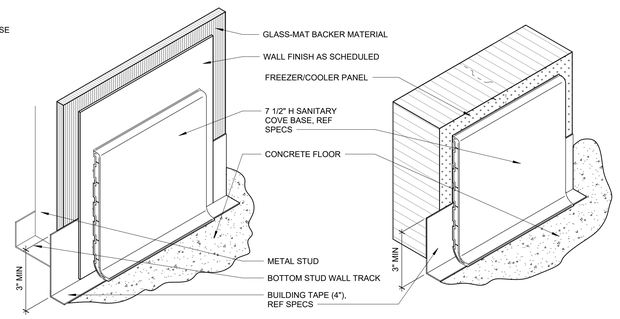




3 WALL DETAIL
1 1/2" = 1'-0"



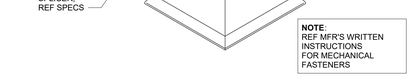
SANITARY COVE BASE AT CERAMIC TILE



SANITARY COVE BASE OVER NRP/FRP/SS STEEL — SANITARY COVE BASE OVER FREEZER/COOLER PANEL

NOTES:
1. CONDITIONS SHOWN ARE FOR NEW CONSTRUCTION. PARTITION AND SUBSTRATE ABOVE 12" AFF MAY VARY AT EXISTING PARTITIONS
2. TRIM EXCESS BUILDING TAPE FROM PROJECTING HORIZONTAL FLAP PRIOR TO INSTALLATION OF BASE
3. REF 3 - GA3 FOR ADDITIONAL INFORMATION AT INSIDE AND OUTSIDE CORNERS
4. GC TO PROVIDE MECHANICAL FASTENERS PER MFR'S WRITTEN INSTRUCTIONS
5. USE ACCESSORIES PROVIDED AND INSTALL SANITARY COVE BASE PER MANUFACTURERS INSTRUCTIONS

2 SANITARY COVE BASE DETAILS (CONCRETE)
3" = 1'-0"



1 SANITARY COVE BASE ACCESSORY DETAILS
3" = 1'-0"

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GABRIEL JOHN MASSA — 29847 — REGISTERED ARCHITECT — STATE OF NEW JERSEY — NEPTUNE, N.J.
01/08/2025

GROCERY DETAILS

SHEET: GA3

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JOB NUMBER: 194-23-047 PROTO: 182

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5	CCD1	12/04/2025

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DOCUMENT DATE:	01/08/25

GABRIEL JOHN MASSA
NEW JERSEY REGISTERED ARCHITECT
No. 21AI01941400
NEPTUNE, NJ

12/04/2025

SHEET REMOVED PER CCD1
CI 32442

RESPONSIBILITY SCHEDULES (OMITTED FROM SET)

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GA5

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SHEET REMOVED PER CCD1
CI 32442

Gabriel J. Massa, RA, AIA, NCARB, LEED AP
NC License No: 9941
MMA
MASSA MARCHESINA ARCHITECTURE PC.
3297 Route 66, Neptune, NJ 07753
t 732.918.2300 f 732.898.7848

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2800 NC HWY 24-87
STORE NO: 06958.1000
JOB NUMBER: 194-23-047 PROTO: 182

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DOCUMENT DATE: 01/08/25

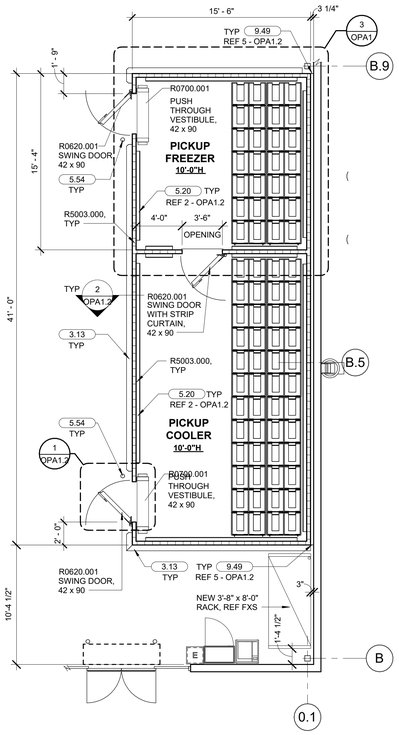
GABRIEL JOHN MASSA
REGISTERED ARCHITECT
2024
NEPTUNE, NJ

12/04/2025

RESPONSIBILITY SCHEDULES (OMITTED FROM SET)

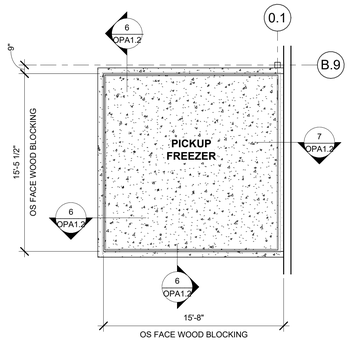
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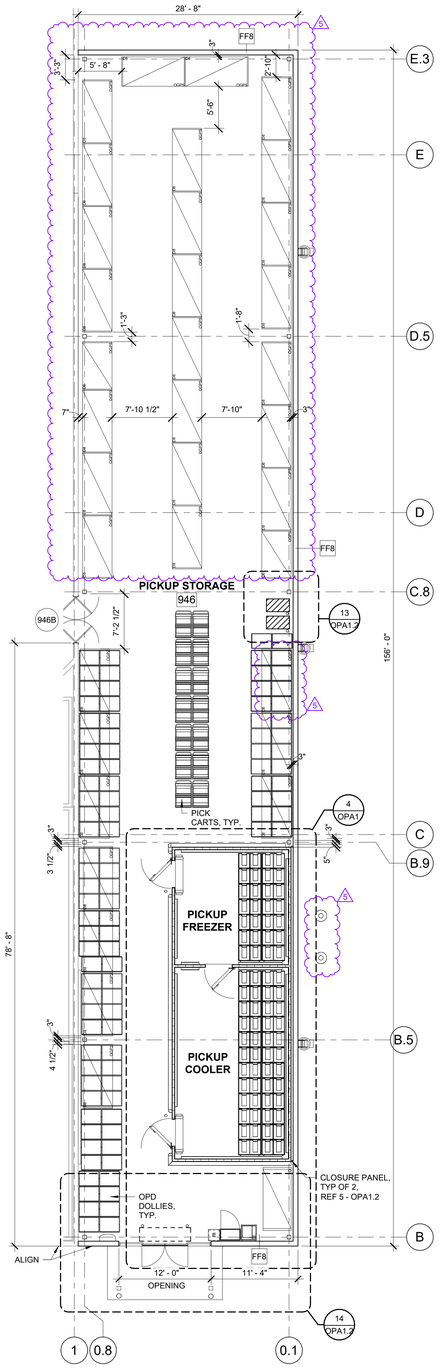
4 WALK-IN PLAN

3/16" = 1'-0"



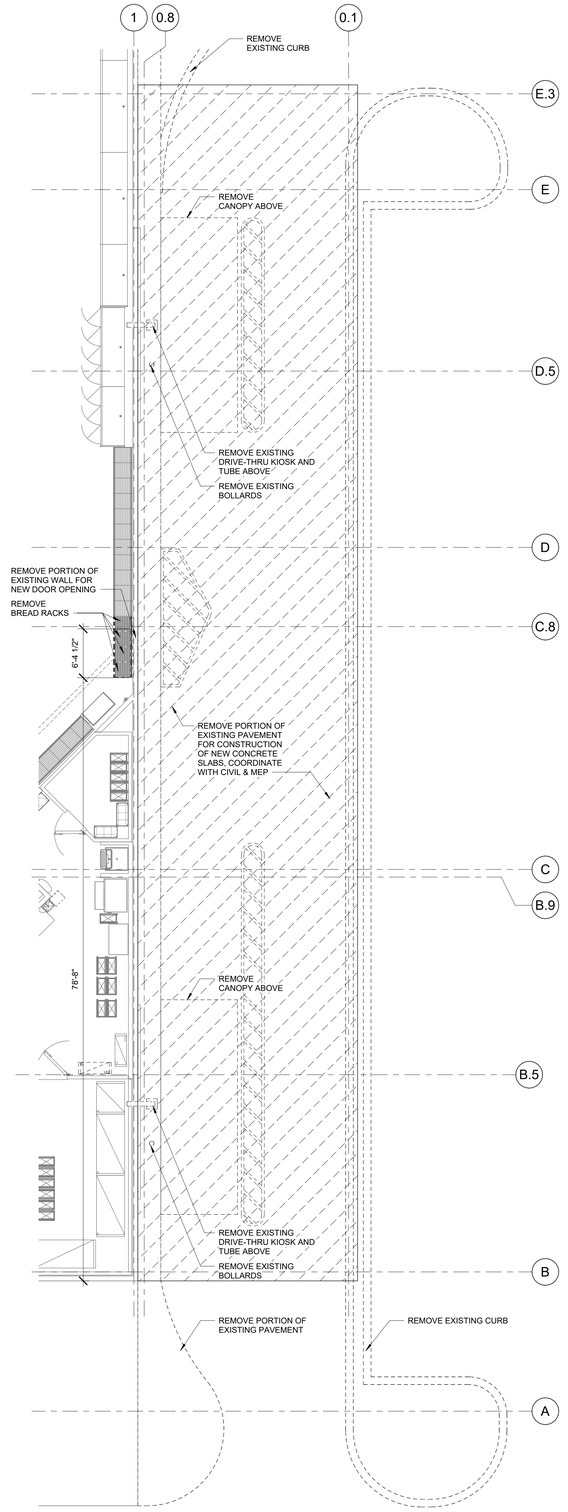
3 FREEZER UNDERSLAB PLAN

3/16" = 1'-0"



2 ONLINE PICKUP FLOOR PLAN

1/8" = 1'-0"



1 ONLINE PICKUP DEMO PLAN

1/8" = 1'-0"

946 PICKUP STORAGE

WALLS
- EXISTING WALLS TO REMAIN
- NEW WALLS DO NOT PAINT

FLOOR
- NEW EC

CEILING
- OPEN TO STRUCTURE - NO FINISH

DEMO NOTES

1. SALES FLOOR TO BE ACCESSIBLE TO CUSTOMERS DURING NON-CONSTRUCTION HOURS
   A. REMOVE CONSTRUCTION FENCING AND DUST WALLS INTERFERING WITH CUSTOMER CIRCULATION OR ACCESS
2. DEMOLITION INCLUDES BUT IS NOT LIMITED TO ITEMS SHOWN DASHED
3. REMOVE ALL DOORS SHOWN DASHED
   A. REF DOOR SCHEDULE FOR DOOR AND FRAME REPLACEMENT
4. COORDINATE REMOVAL AND DISPOSAL OF EXISTING FIXTURES WITH MECHANICAL SERVICES CONSTRUCTION MANAGER
5. REMOVAL OF GONDOLAS AND/OR RACKING WILL BE PERFORMED BY OTHERS

SHEET NOTES

1. ALL STEEL RACKS TO BE FURNISHED BY WALMART AND ANCHORED BY CONTRACTOR
   A. REF RACK ANCHORAGE PLAN FOR STEEL RACK AND/OR GONDOLA SHELVING FIXTURE ANCHORING REQUIREMENTS
2. REPAIR BOLT HOLES AND SPALLS RESULTING FROM MERCHANDISE FIXTURE AND OR STORAGE RACK RELOCATION OR REMOVAL. REF SPECS
   A. FILL ALL BOLT HOLES AND SPALLS RESULTING FROM FIXTURE AND OR STORAGE RACK RELOCATION OR REMOVAL IN NON CUSTOMER ACCESSIBLE AREAS WITH NON SHRINK GROUT
3. STUD WALL DIMENSIONS ARE TO FACE OF STUDS
4. WALLS AND INFILL OF EXISTING OPENINGS ARE TO MATCH CONSTRUCTION AND FINISHES OF ADJACENT EXISTING WALLS
5. ROUTE ALL UTILITY SERVICE LINES, PIPES AND CONDUIT, WITHIN EXISTING ADJACENT STUD WALLS WHEREVER POSSIBLE
   A. ON COOLER/FREEZER PANELS IN FOOD PREP AREAS WHERE UTILITIES MUST BE EXPOSED, CONTRACTOR TO HAVE OPTION OF FOLLOWING:
      a. SURFACE MOUNT UTILITIES WITH NON-CORROSIVE ANCHORS; SEAL BOTH SIDES OF PIPE/CONDUIT TO PANEL CONTINUOUSLY WITH SEALANT
      b. INSTALL UTILITIES 1/2" OFF FACE OF PANEL TO ALLOW FOR CLEANING; USE ONLY NON-CORROSIVE ANCHORS; APPLY CONTINUOUS SEALANT ALONG EDGES AND JOINTS
      c. COVER UTILITIES WITH 20 GA SS BENT PLATES MOUNTED TO WALL WITH NON-CORROSIVE ANCHORS; APPLY CONTINUOUS SEALANT ALONG EDGES AND JOINTS
6. RELOCATION AND SETUP OF GONDOLAS AND/OR RACKING AS INDICATED ON FXS SHEETS WILL BE PERFORMED BY OWNER
   A. ANCHORING OF UPRIGHTS TO BE PERFORMED BY GC
   B. ON SPECIAL PROJECTS, RELOCATION AND SETUP OF GONDOLAS AND/OR RACKING AS INDICATED ON THIS SHEET WILL BE PERFORMED BY GC
7. LOCATE ALL 44" DEEP RACKS 6" MIN FROM WALLS AND COLUMNS UNO
8. LOCATE ALL RACKS LESS THAN 44" DEEP 3" MIN FROM ALL WALLS AND COLUMNS UNO

KEYNOTES

3.13	6" WIDE X 6" HIGH CONTINUOUS CONCRETE CURB WITH SMOOTH HAND TROWEL FINISH AT BASE OF WALK-IN BOX
5.20	STEEL PROTECTOR ANGLE.
5.54	32" GALVANIZED STEEL BOLLARD, 4" OD FURNISHED BY OWNER, INSTALLED BY GC
9.49	PROVIDE STEEL CLOSURE PANEL AT WALK-IN AND ADJACENT WALL OR COLUMN

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GABRIEL JOHN MASSA 9941 LICENSED ARCHITECT NEPTUNE, NJ

12/04/2025

ONLINE PICKUP PLANS AND DETAILS

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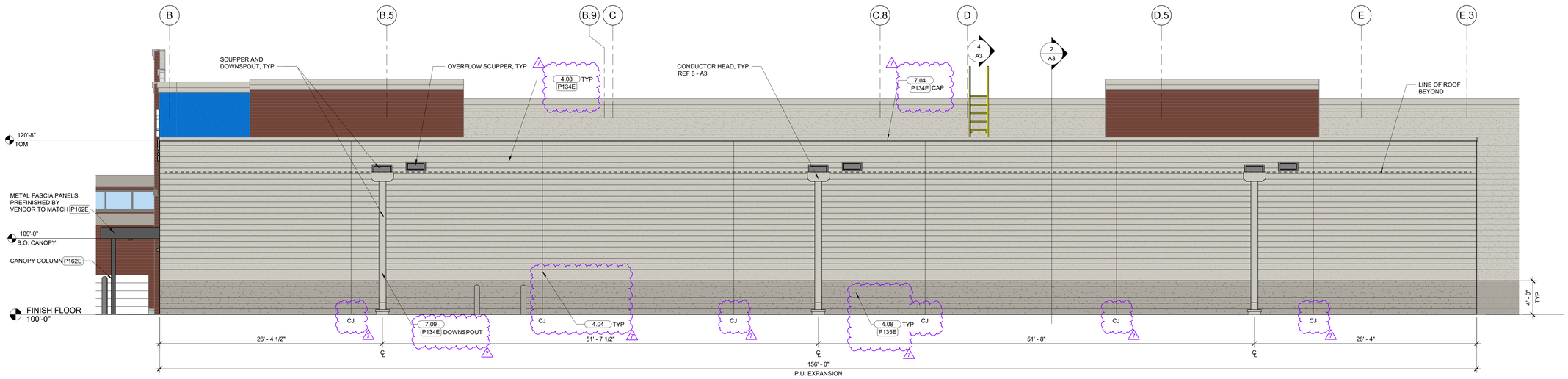
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COLOR LEGEND

P134E	LIGHT GRAY
P135E	MEDIUM GRAY
P162E	BLACK GRAY

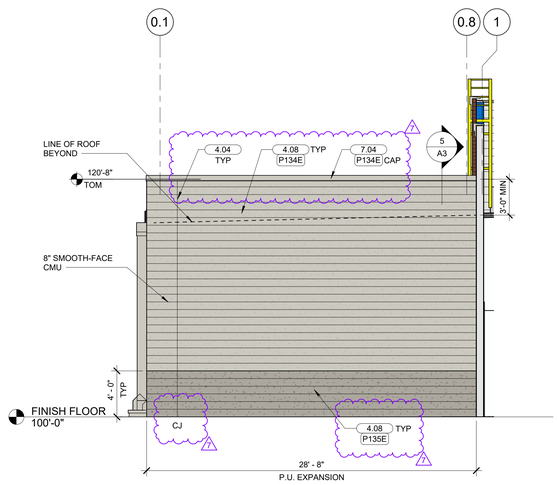
KEYNOTES

4.04	CONTROL JOINT, TYP, REF STRUCTURAL
4.08	SPLIT FACE CMU
5.01	6" PIPE BOLLARD WITH GRAY PLASTIC SLEEVE (REF SPECS FOR HEIGHT OF SLEEVE)
7.04	METAL FASCIA COVER
7.09	METAL DOWNSPOUT, PREFINISHED, UNLESS NOTED OTHERWISE
8.09	AUTOMATIC SLIDING ENTRANCE DOORS



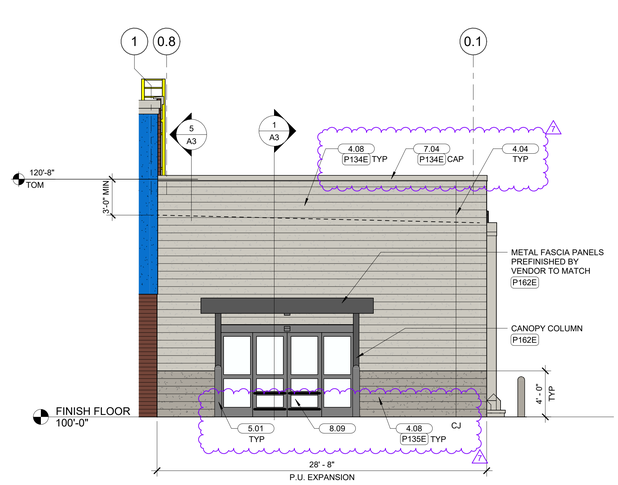
3 ONLINE PICKUP RIGHT ELEVATION

3/16" = 1'-0"



2 ONLINE PICKUP REAR ELEVATION

3/16" = 1'-0"



1 ONLINE PICKUP FRONT ELEVATION

3/16" = 1'-0"

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01/21/2025

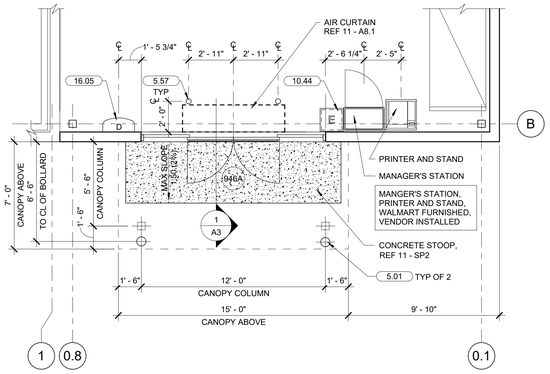
ONLINE PICKUP ELEVATIONS

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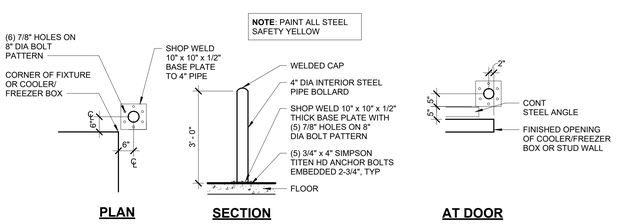
KEYNOTES

5.01	6" PIPE BOLLARD WITH GRAY PLASTIC SLEEVE (REF SPECS FOR HEIGHT OF SLEEVE)
5.54	32" GALVANIZED STEEL BOLLARD, 4" OD FURNISHED BY OWNER, INSTALLED BY GC
5.57	32" STAINLESS STEEL BOLLARD, 4" OD FURNISHED BY OWNER, INSTALLED BY GC
9.90	FLOOR STRIPES. REF N1 FOR STRIPING CONDITIONS
10.44	PROVIDE TACTILE "EXIT" SIGN. REF N1.
16.05	INSTALL INSECT CONTROL UNIT TYPE NOTED BESIDE UNIT. REFER TO N1 FOR LEGEND AND NOTES.



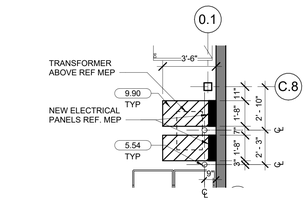
14 ENLARGED BOLLARD PLAN

1/4" = 1'-0"



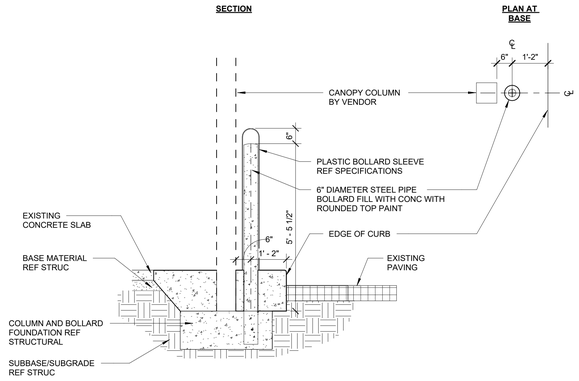
12 SLAB-MOUNTED BOLLARD DETAIL

1/2" = 1'-0"



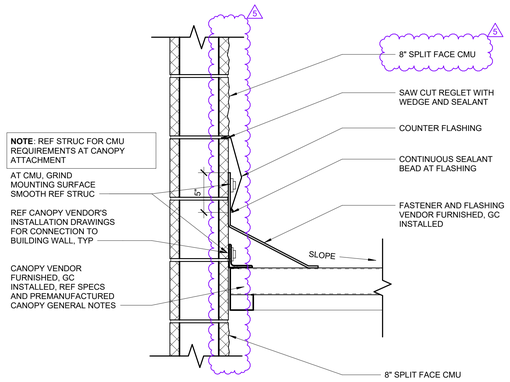
13 ENLARGED BOLLARD PLAN

1/4" = 1'-0"



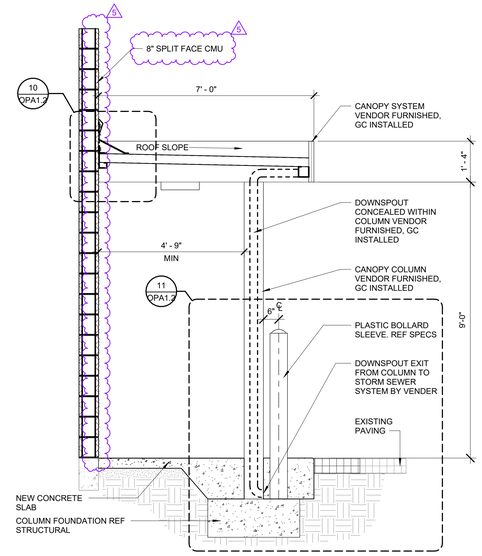
11 6" EXTERIOR BOLLARD PLASTIC SLEEVE

1/2" = 1'-0"



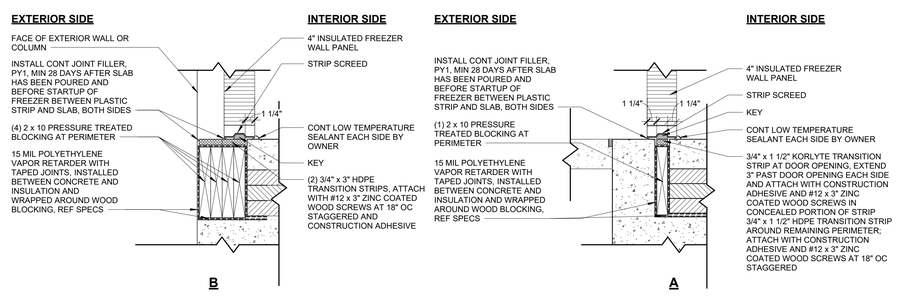
10 CANOPY ATTACHMENT AT CMU

1 1/2" = 1'-0"



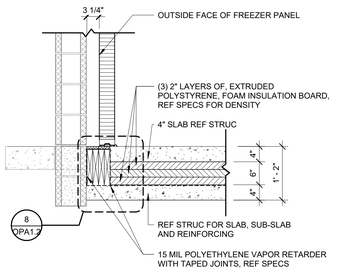
9 ASSOCIATE CANOPY COVER SECTION

1/2" = 1'-0"



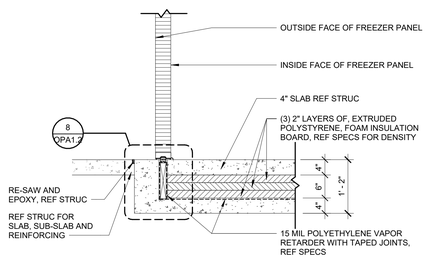
8 ENLARGED DETAIL AT PLASTIC TRANSITION STRIP

1 1/2" = 1'-0"



INSULATED FREEZER SLAB AT EXISTING EXTERIOR WALL

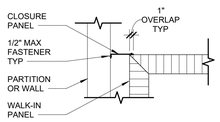
3/4" = 1'-0"



6 INSULATED FREEZER SLAB

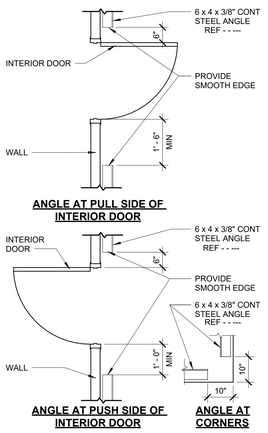
3/4" = 1'-0"

NOTES:
1. REFRIGERATION CONTRACTOR TO PROVIDE GALVANIZED CLOSURE PANELS AT ALL VERTICAL GAPS AND AT ALL HORIZONTAL GAPS 52" OR LOWER AFF BETWEEN REFRIGERATED CASE, WALLS, AND/OR EQUIPMENT
2. PROVIDE SS CLOSURE PANELS LOCATED IN PREP AREAS
3. REF FLOOR PLANS FOR ALL PARTITION TYPES AND LOCATIONS
4. EASE EXPOSED EDGES TO SMALL UNIFORM RADIUS
5. SET CLOSURE PANEL IN A BED OF SEALANT EACH SIDE
6. FASTEN CLOSURE PANELS WITH #6 PAN HEAD SCREWS AT 9" OC
7. CLOSURE PANELS TO BE FASTENED ONLY TO THE BACK OF THE REFRIGERATED CASE OR END PANEL SKINS AS INDICATED IN THE DRAWINGS



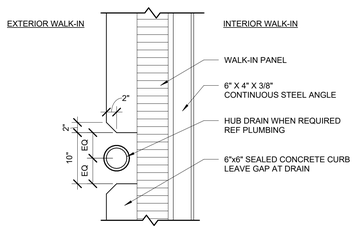
5 CLOSURE PANEL DETAIL AT WALK-IN

3/4" = 1'-0"



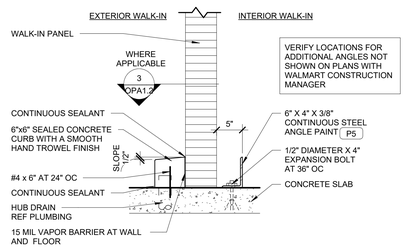
4 PROTECTOR ANGLE

1/2" = 1'-0"



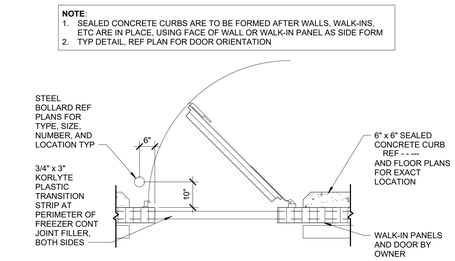
3 CURB/FUNNEL DRAIN

1" = 1'-0"



2 CURB & PROTECTOR ANGLE

1" = 1'-0"



1 SINGLE ACTING DOOR AT WALK-IN

1/2" = 1'-0"

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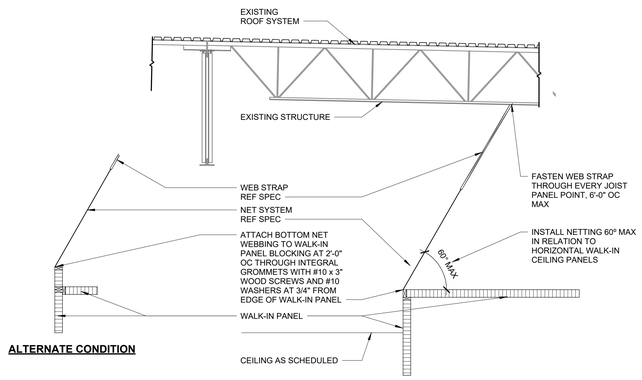
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12/04/2025

ONLINE PICKUP DETAILS

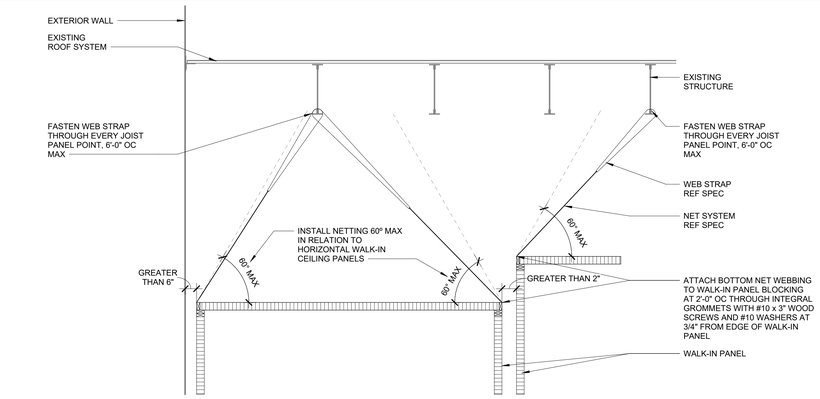
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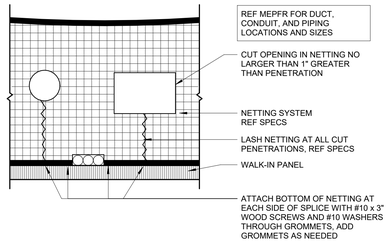
5 NET SYSTEM ATTACHMENT PERPENDICULAR TO STRUCTURE

3/8" = 1'-0"



4 NET SYSTEM ATTACHMENT PARALLEL TO STRUCTURE

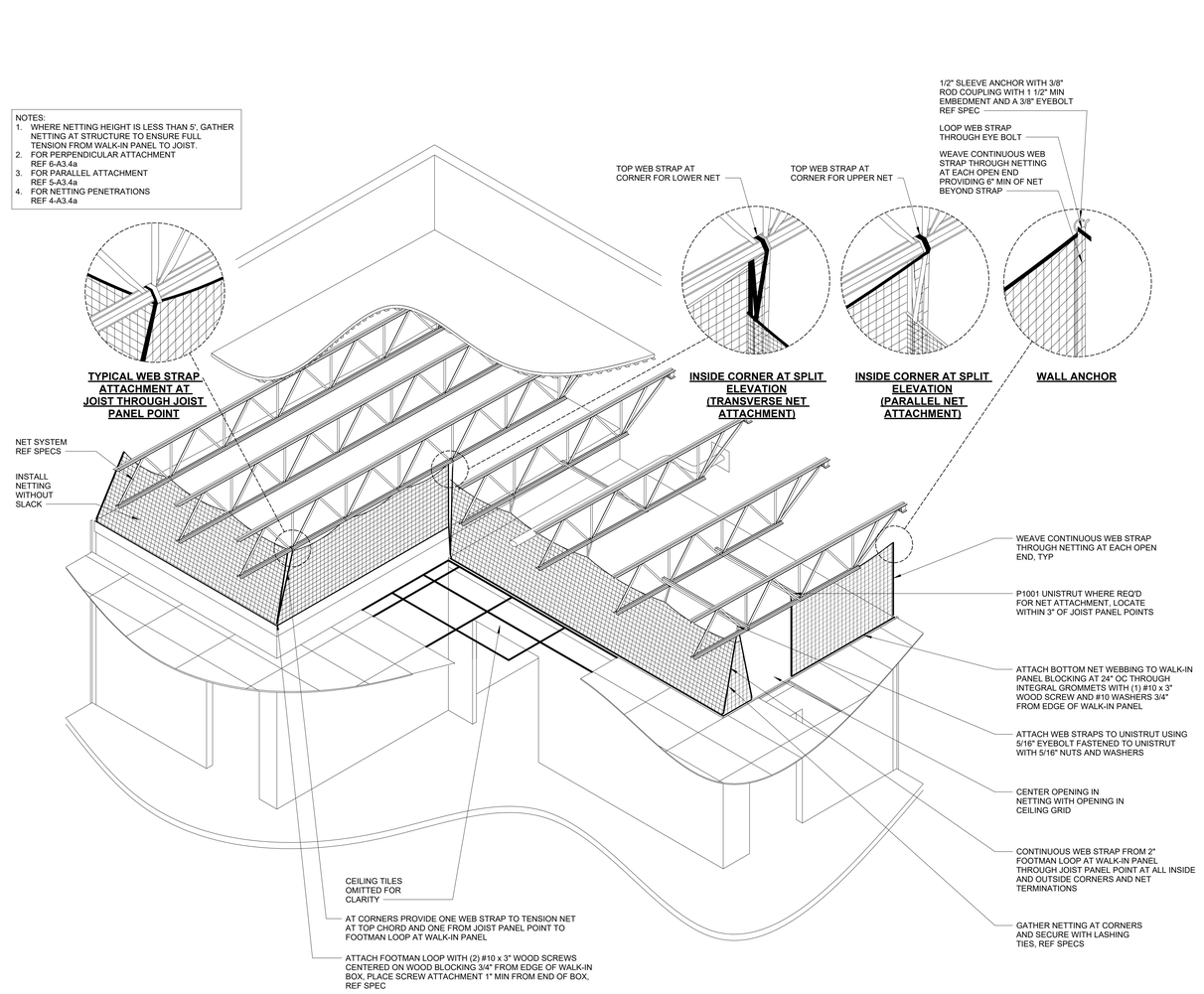
3/8" = 1'-0"



3 NETTING PENETRATIONS

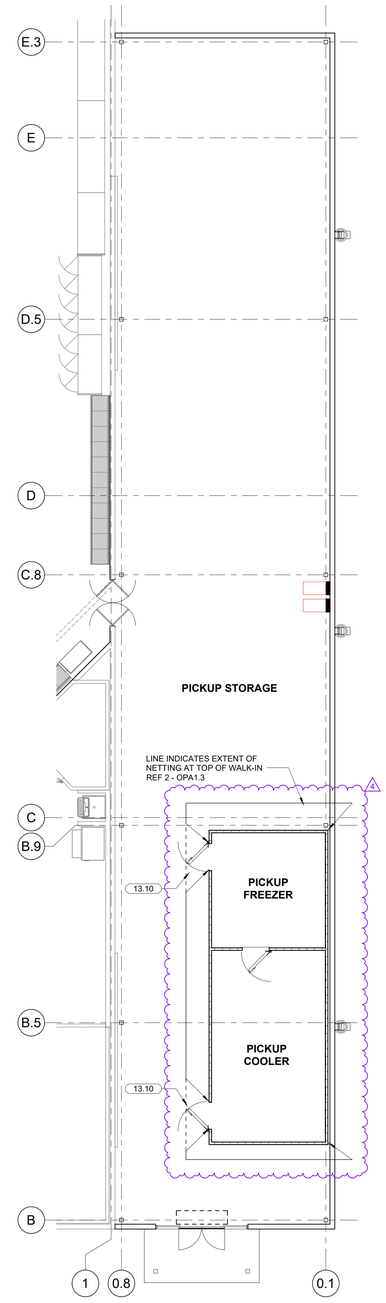
1/2" = 1'-0"

NOTES:
1. WHERE NETTING HEIGHT IS LESS THAN 5', GATHER NETTING AT STRUCTURE TO ENSURE FULL TENSION FROM WALK-IN PANEL TO JOIST.
2. FOR PERPENDICULAR ATTACHMENT REF 6-A3.4a
3. FOR PARALLEL ATTACHMENT REF 5-A3.4a
4. FOR NETTING PENETRATIONS REF 4-A3.4a



2 NET SYSTEM ON WALK-IN BOX

1/4" = 1'-0"



1 WALK-IN PLAN

1/8" = 1'-0"

GENERAL NOTES

1. ROUTE CONDUITS, UTILITIES, AND SUPPORTS 6" MIN AWAY FROM WALK-IN PANEL EDGES TO ALLOW FOR NET INSTALLATION
2. ATTACH BOTTOM WEB OF NET AT 24" OC THROUGH INTEGRAL GROMMETS WITH #10 x 3" WOOD SCREWS AND #10 WASHERS 3/4" FROM EDGE OF WALK-IN PANEL
3. CONTINUE STRAP FROM WALK-IN PANEL TO JOIST PANEL POINT OR GIRDER AT CORNERS, ADDITIONAL STRAP REQ'D
4. REF SPECS FOR VERTICAL BARRIER NETTING SYSTEM AND COMPONENTS

SHEET NOTES

1. INSTALLATION SHALL NOT COMMENCE UNTIL WALK-INS AND ALL WORK ABOVE IS INSTALLED
   A. GC SHALL COORDINATE INSTALLATION WITH OWNER CONSTRUCTION MANAGER AND ALL TRADES AND WORK BY OTHERS
2. MEASURE, CUT, AND INSTALL ALL NETTING AND ACCESSORIES PER MFR'S INSTRUCTION MANUAL
   A. NETTING MAY LEAN INWARD TOWARDS CENTER OF WALK-IN BOX BUT SHALL NOT LEAN OUTWARD BEYOND PARALLEL TO FACE OF BOX
3. WHERE DUCTS OR PIPING REQUIRE PENETRATION OF NETTING, CUT NETTING AROUND DUCTS OR PIPES AND LASH NETTING ACCORDINGLY
4. EXISTING SAFETY NETTING MAY BE MODIFIED FOR ITEMS LOCATED ABOVE EXISTING BOX, INCLUDING DUCTWORK, CONDUITS, REFRIGERATION LINES, ETC
   A. EXISTING SAFETY NET SYSTEM MAY NOT BE USED OR MODIFIED FOR BOXES REPLACING EXISTING BOXES

KEYNOTES

13.10 3'-0" NET OPENING. COORDINATE WITH CEILING GRID ACCESS WHEN APPLICABLE

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GABRIEL JOHN MASSA
NEW JERSEY
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NEPTUNE, N. J.

9/10/2025

EDGE PROTECTION AT STEEL JOIST

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DESIGN LOADS

1. BUILDING CODE		
A. BUILDING CODE	2018 NC STATE BUILDING CODE (2015 IBC)	
2. GRAVITY LOADS		
A. ROOF DEAD LOAD	MAX	MIN
- ROOF INSULATION AND METAL DECK	6 PSF	3 PSF
- STEEL JOISTS	3 PSF	2 PSF
- MECH, ELEC, PLUMBING, SPRINKLER, & MERCHANDISE	6 PSF	1 PSF
TOTALS	15 PSF	6 PSF
B. ROOF LIVE LOADS		
1. ROOF	20 PSF (MIN OR SNOW LOAD)	
2. RAIN INTENSITY	6.62 IN/HR (15 MIN INTENSITY)	
3. PONDING	43 PSF	
C. SNOW LOADS		
1. GROUND SNOW LOAD (Pg)	10 PSF	
2. IMPORTANCE FACTOR (I)	1.0	
3. SNOW EXPOSURE FACTOR (Ce)	1.0	
4. ROOF THERMAL FACTOR (Ct)	1.0	
5. FLAT ROOF SNOW LOAD (Pf)	12 PSF (INCULDES RAIN-ON-SNOW SURCHARGE)	
D. EXISTING BUILDING DESIGN LOADS (PER AS-BUILT DRAWINGS)		
1. ROOF DEAD LOAD	15 PSF	
2. ROOF SNOW LOAD	21.5 PSF	
3. LATERAL LOADS		
A. WIND LOADS		
1. BASIC WIND SPEED (3-SECOND GUST)		
- ULTIMATE DESIGN WIND SPEED	120 MPH	
- BASIC DESIGN WIND SPEED (SERVICE)	93 MPH	
2. WIND EXPOSURE CATEGORY	B	
3. RISK CATEGORY	II	
4. VELOCITY PRESSURE EXPOSURE COEFFICIENT (Kh)	0.85	
5. INTERNAL PRESSURE COEFFICIENT (GCpi)	±0.18	
6. WIDTH OF EDGE ZONE FOR JOISTS AND ROOF ASSEMBLIES (2a)	6.0 FT	
B. DESIGN WIND PRESSURES (SERVICE) (LOADS INCLUDE 0.6 LOAD COMBINATION FACTOR FROM ASCE 7-10, SECTION 2.4.1)		
1. EXTERIOR WALLS		
- WALLS	14.8 PSF	
- PARAPETS	24.2 PSF	
2. NET ROOF UPLIFT (LOADS INCLUDE 0.6 LOAD COMBINATION FACTOR FROM ASCE 7-10, SECTION 2.4.1)		
- JOIST GIRDER	10.5 PSF	
- JOIST CORNER & EDGE ZONE	10.9 PSF	
- JOIST INTERIOR ZONE	8.2 PSF	
3. ROOF ASSEMBLY UPLIFT		
- CORNER ZONE	26.1 PSF	
- EDGE ZONE	26.1 PSF	
- INTERIOR ZONE	15.5 PSF	
C. SEISMIC LOADS (SERVICE)		
1. 5% DAMPED MAPPED ACCELERATION PARAMETER (Ss)	0.206	
2. 1-SEC PERIOD MAPPED ACCELERATION PARAMETER (S1)	0.093	
3. 5% DAMPED SPECTRAL RESPONSE COEFF. (Sds)	0.220	
4. 1-SEC PERIOD SPECTRAL RESPONSE COEFF. (Sd1)	0.149	
5. SITE CLASS	D	
6. RISK CATEGORY	II	
7. IMPORTANCE FACTOR (Ie)	1.0	
8. SEISMIC DESIGN CATEGORY	C	
9. SEISMIC FORCE RESISTING SYSTEM	BEARING WALL SYSTEM WITH INTERMEDIATE REINFORCED MASONRY SHEAR WALLS	
10. ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE	
12. SEISMIC RESPONSE COEFFICIENT (Cs)	0.063	
12. RESPONSE MODIFICATION FACTOR (R)	3.5	
13. OVERSTRENGTH FACTOR (Do)	2.0	
14. DESIGN BASE SHEAR (V)	0.044W (SERVICE)	

ABBREVIATIONS

AB	ANCHOR BOLT
ACI	AMERICAN CONCRETE INSTITUTE
AFF	ABOVE FINISHED FLOOR
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI	AMERICAN IRON AND STEEL INSTITUTE
ARCH	ARCHITECTURAL
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS	AMERICAN WELDING SOCIETY
BFF	BELOW FINISHED FLOOR
BL	BLOCK LINTEL
BM	BEAM
BO	BOTTOM OF
BOM	BOTTOM OF MASONRY
BOS	BOTTOM OF STEEL
BRG	BEARING
CJ	CONTRACTION JOINT
CL	CENTER LINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
COND	CONDENSER UNIT
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
DIA	DIAMETER
EDC	ELECTRICAL DISTRIBUTION CENTER
EF	EXHAUST FAN
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
EQ	EQUAL
EW	EACH WAY
FDN	FOUNDATION
FF	FINISHED FLOOR
FS	FAR SIDE
FTG	FOOTING
FV	FIELD VERIFY
GA	GAUGE
GC	GENERAL CONTRACTOR
GYP	GYPSUM BOARD
H	HEIGHT
HORIZ	HORIZONTAL
HSA	HEADED STUD ANCHOR
HSS	HOLLOW STRUCTURAL SHAPE
INFO	INFORMATION
ISO	ISOLATION
JBE	JOIST BEARING ELEVATION
JST	JOIST
JT	JOINT
KSI	KIPS PER SQUARE INCH
L	LENGTH
LB	POUNDS
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDINAL

ABBREVIATIONS

MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANOUS
MO	MASONRY OPENING
MTL	METAL
NBPS	NOT BY PRECAST SUPPLIER
NIC	NOT IN CONTRACT
NO	NUMBER
NS	NEAR SIDE
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OPPOSITE HAND
OPNG	OPENING
OSL	OUTSTANDING LEG
PAF	POWER ACTUATED FASTENER
PC	PRECAST
PCF	POUNDS PER CUBIC FOOT
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PLUMB	PLUMBING
PMEJ	PREMOLDED EXPANSION JOINT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
QTY	QUANTITY
RACK	REFRIGERATION RACK
REF	REFER TO
REINF	REINFORCING
REQD	REQUIRED
REV	REVERSE
RO	ROUGH OPENING
ROT	ROTATED
RTU	ROOF TOP UNIT
SCHED	SCHEDULE
SDI	STEEL DECK INSTITUTE
SIM	SIMILAR
SJI	STEEL JOIST INSTITUTE
SPCS	SPACES
SPECS	SPECIFICATIONS
STRUC	STRUCTURAL
T&B	TOP AND BOTTOM
THK	THICKNESS
TO	TOP OF
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TOGB	TOP OF GRADE BEAM
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TOW	TOP OF WALL
TRANS	TRANSVERSE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W	WIDTH
WP	WORK POINT

STATEMENT OF SPECIAL INSPECTIONS

SPECIAL INSPECTIONS ARE REQUIRED. REFER TO APPENDIX B OF THE PROJECT SPECIFICATIONS FOR THE FOLLOWING INFORMATION REGARDING THE REQUIREMENTS OF SPECIAL INSPECTIONS:

1. THE MATERIALS, SYSTEMS, COMPONENTS AND WORK REQUIRED TO HAVE SPECIAL INSPECTIONS.
2. THE TYPE AND EXTENT OF EACH SPECIAL INSPECTION.
3. THE TYPE AND EXTENT OF EACH TEST.
4. ADDITIONAL SPECIAL INSPECTION REQUIREMENTS FOR WIND OR SEISMIC RESISTANCE (WHEN APPLICABLE).
5. THE FREQUENCY OF SPECIAL INSPECTIONS AND TESTING.

THE SPECIAL INSPECTION REQUIREMENTS ARE BASED ON CHAPTER 17 OF THE IBC. THE EXEMPTIONS ALLOWED FOR CONCRETE CONSTRUCTION HAVE BEEN UTILIZED WHERE APPLICABLE.

LEGEND

- XXX'-XX" — INDICATES TOP OF BOND BEAM ELEVATION AT ROOF BETWEEN CMU CONTROL JOINTS
- INDICATES MASONRY CONTROL JOINT
- INDICATES CONCENTRATED LOAD; REF FRAMING PLAN NOTES
- SCUPPER, REF ARCH FOR SIZE AND LOCATIONS
- ROOF TOP UNIT (RTU)
- EXHAUST FAN (EF)
- FULL-DEPTH BEAM STIFFENER, REF DETAILS

ITEMS IN LEGEND MAY NOT OCCUR ON ALL PLANS

FOUNDATION SUBSURFACE PREPARATION

UNLESS SPECIFICALLY INDICATED OTHERWISE IN THE DRAWINGS AND/OR SPECIFICATIONS, THE LIMITS OF THIS SUBSURFACE PREPARATION ARE CONSIDERED TO BE THAT PORTION OF THE SITE DIRECTLY BENEATH AND 5 FEET BEYOND THE BUILDING AND APPURTENANCES.

APPURTENANCES ARE THOSE ITEMS ATTACHED TO THE BUILDING PROPER (REFER TO DRAWING SHEET SP1), TYPICALLY INCLUDING, BUT NOT LIMITED TO, THE BUILDING SIDEWALKS, GREENHOUSE CANOPIES, PORCHES, RAMPS, STOOPS, TRUCK WELLS/DOCKS, CONCRETE APRONS AT THE AUTOMOTIVE CENTER, COMPACTOR PAD, ETC. APPURTENANCES SHALL ALSO INCLUDE SCREENWALLS AT THE COMPACTOR, TRUCK DOCK AND THE BALE/PALLET STORAGE AREA(S). THE INTERIOR SLAB-ON-GRADE BASE AND THE VAPOR BARRIER, WHERE REQUIRED, DO NOT EXTEND BEYOND THE LIMITS OF THE ACTUAL BUILDING.

ESTABLISH THE FINAL SUBGRADE ELEVATION TO ALLOW FOR THE CONCRETE SLAB, BASE, AND SUBBASE (IF SUBBASE IS REQUIRED BELOW). REFERENCE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR REQUIRED SLAB THICKNESS. FOR THE BUILDING INTERIOR SLAB-ON-GRADE, THE 4" THICK BASE MATERIAL SHALL CONFORM TO NCDOT SECTION 1005, STD. SIZE #57 WELL GRADED STONE.

FOR APPURTENANCE SLABS (EXTERIOR SLABS), THE 4" THICK BASE MATERIAL SHALL CONFORM TO NCDOT SECTION 1005, STD. SIZE #57 WELL GRADED STONE. THE SUBGRADED MATERIAL SHOULD BE PROOF ROLLED AS FIRM AND UNYIELDING. AS A MINIMUM THE UPPER 1-FOOT OF SUBGRADE (SUBBASE) SHOULD BE COMPACTED TO AT LEAST 98% MAXIMUM DRY DENSITY PER ASTM D698. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ACCURATE MEASUREMENTS FOR ALL CUT AND FILL DEPTHS REQUIRED. ANY PROPOSED EQUIVALENT ALTERNATIVE BASE OR SUBBASE MATERIAL MUST BE SUBMITTED FOR APPROVAL WITHIN 30 DAYS AFTER AWARD OF CONTRACT. ANY EQUIVALENT ALTERNATIVE SHALL ONLY BE USED IF APPROVED IN WRITING BY THE CEC AND AOR.

EXISTING FOUNDATIONS, SLABS, PAVEMENTS, AND BELOW-GRADE STRUCTURES SHALL BE REMOVED FROM THE BUILDING AREA. REMOVE SURFACE VEGETATIONS, TOPSOIL, ROOT SYSTEMS, ORGANIC MATERIAL, EXISTING FILL, AND SOFT OR OTHERWISE UNSATISFACTORY MATERIAL FROM THE BUILDING AREA. PROOFROLL EXPOSED SUBGRADE. REMOVE AND REPLACE UNSATISFACTORY AREAS WITH SATISFACTORY MATERIAL. SUBGRADE MATERIAL SHALL BE FREE OF ORGANIC AND OTHER DELETERIOUS MATERIALS AND SHALL MEET THE FOLLOWING REQUIREMENTS:

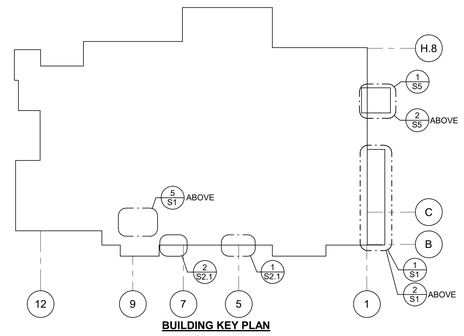
LOCATION WITH RESPECT TO FINAL GRADE BUILDING AREA	P.I. <20 MAX.>	L.L. <40 MAX.>

SUBGRADE MATERIAL SHALL BE PLACED IN LOOSE LIFTS NOT EXCEEDING 8 INCHES IN THICKNESS AND COMPACTED TO AT LEAST 98 PERCENT OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM 698) AT A MOISTURE CONTENT WITHIN 2 PERCENT BELOW TO 2 PERCENT ABOVE THE OPTIMUM.

THE FOUNDATION SYSTEM SHALL BE ISOLATED SPREAD FOOTINGS AT COLUMNS AND CONTINUOUS SPREAD FOOTINGS AT WALLS.

THIS FOUNDATION SUBSURFACE PREPARATION DOES NOT CONSTITUTE A COMPLETE SITE WORK SPECIFICATION. IN CASE OF CONFLICT, INFORMATION COVERED IN THIS PREPARATION SHALL TAKE PRECEDENCE OVER THE WAL-MART SPECIFICATIONS. REFER

TO THE SPECIFICATIONS FOR SPECIFIC INFORMATION NOT COVERED IN THIS PREPARATION. THIS INFORMATION WAS TAKEN FROM A GEOTECHNICAL REPORT PREPARED BY ECS Southeast, LLC, DATED January 27, 2025. (GEOTECHNICAL REPORT IS FOR INFORMATION ONLY AND IS NOT A CONSTRUCTION SPECIFICATION).



BUILDING KEY PLAN

GENERAL NOTES

1.0 GENERAL
- 1.1 EXISTING CONDITIONS SHOWN MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. BIDDERS SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BID. WITHIN ONE WEEK FROM THE START OF CONSTRUCTION DATE GENERAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING MATERIAL, MEASUREMENTS, AND ELEVATIONS AND SHALL NOTIFY THE ARCHITECT, STRUCTURAL ENGINEER OF RECORD AND THE OWNER'S CONSTRUCTION MANAGER OF ANY DISCREPANCIES OR FORESEEN PROBLEMS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL FIELD MEASUREMENTS, EXISTING CONDITIONS, AND KNOWN COMPLICATIONS WITH THE MATERIAL SUPPLIERS.
- 1.2 GENERAL CONTRACTOR SHALL CAREFULLY COORDINATE DEMOLITION AND NEW CONSTRUCTION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.
- 1.3 GENERAL CONTRACTOR SHALL PROTECT EXISTING STRUCTURES, UTILITIES, PROPERTY, ETC DURING CONSTRUCTION. RESTORE ALL ITEMS DAMAGED, AS REQUIRED BY OWNER'S REPRESENTATIVE, TO THE OWNER'S SATISFACTION AT NO COST TO OWNER OR WITHOUT EXTENSION OF CONTRACT TIME.
- 1.4 BUILDING COMPONENTS ABANDONED BY THE SCOPE OF WORK SHALL BE SECURED TO PREVENT FALLING, LOOSENING OR CREATING DAMAGE OF ANY KIND IN THE FUTURE.
- 1.5 GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY SUPPORT AND MAINTAINING STABILITY OF EXISTING STRUCTURE DURING ALL PHASES OF CONSTRUCTION.
- 1.6 BEFORE OR CONCURRENT WITH ANY EXCAVATIONS ADJACENT TO THE EXISTING BUILDING FOUNDATION OR SLAB, GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY SUPPORT FOR THE BASE AND SUBGRADE OF THE EXISTING SLAB AND FOUNDATIONS TO PREVENT UNDERMINING.
- 1.7 GENERAL CONTRACTOR SHALL COORDINATE THE SIZE AND LOCATION OF PENETRATIONS THROUGH THE STRUCTURE FOR MECHANICAL, ELECTRICAL AND PLUMBING WORK.
- 1.8 STEEL FRAMING IS NON-SELF SUPPORTING AND REQUIRES INTERACTION WITH OTHER ELEMENTS NOT CLASSIFIED AS STRUCTURAL STEEL TO PROVIDE THE REQUIRED STABILITY AND RESISTANCE TO LATERAL FORCES.
- 1.9 THE STEEL FRAMING AND CMU WALLS SHALL BE TEMPORARILY BRACED UNTIL ALL STEEL FRAMING, ROOF DECK, AND CMU WALLS HAVE BEEN INSTALLED AND ALL CONNECTIONS BETWEEN THESE ELEMENTS HAVE BEEN MADE.
- 1.10 GENERAL CONTRACTOR SHALL PROVIDE FIRE PROTECTION FOR THE EXISTING STRUCTURE AND BUILDING CONTENTS DURING WELDING OR ANY OTHER CONSTRUCTION ACTIVITY THAT GENERATES SPARKS OR INTENSE HEAT.
- 1.11 THE STRUCTURAL ENGINEER OF RECORD, ITS EMPLOYEES, AND REPRESENTATIVES SHALL NOT BE RESPONSIBLE FOR, AND WILL NOT HAVE CONTROL OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK; NOR WILL THEY BE RESPONSIBLE FOR ANY FAILURE BY THE CONTRACTOR TO PERFORM OR COMPLETE CONSTRUCTION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

2.0 FOUNDATIONS AND SLABS-ON-GRADE
- 2.1 FOOTING DESIGNS ARE BASED ON A NET SOIL BEARING PRESSURE OF 2000 PSF. IF SUITABLE BEARING MATERIAL IS NOT ENCOUNTERED AT THE ELEVATION INDICATED ON THE DRAWINGS AS INDICATED BY A LICENSED GEOTECHNICAL ENGINEER, THE CONTRACTOR SHALL OVEREXCAVATE UNTIL SUITABLE BEARING MATERIAL IS ENCOUNTERED. 1
- 2.2 EXTERIOR FOOTINGS SHALL BEAR AT OR BELOW MINIMUM BEARING DEPTH. MINIMUM BEARING DEPTH IS 18 INCHES BELOW ADJACENT FINISHED GRADE. THICKENED SLAB EDGES FOR STOOPS, ETC. SHALL BE 16 INCHES (UNO).
- 2.3 STANDARD PROCEDURES OF FROST PROTECTION FOR FOUNDATIONS AND EXCAVATIONS SHALL BE EMPLOYED FOR WINTER CONSTRUCTION. BACKFILLING OF EXCAVATIONS SHALL BE DONE AS SOON AS POSSIBLE TO PROTECT FOUNDATIONS FROM FROST.
- 2.4 SLABS-ON-GRADE ARE UNREINFORCED CONCRETE UNLESS NOTED OTHERWISE.
- 2.5 PROVIDE SAW CUT JOINTS AT 12'-0" OC MAXIMUM SPACING UNLESS NOTED OTHERWISE ON THE CONTRACT DRAWINGS.
- 2.6 PROVIDE (2) #4x2'-0" BARS PLACED 1 1/2" BELOW TOP OF SLAB AND LOCATED DIAGONALLY AT REENTRANT CORNERS.
- 2.7 "CJ" INDICATES SAW CUT CONTRACTION JOINT IN SLAB-ON-GRADE. "CNST JT" INDICATES DOWELED CONSTRUCTION JOINT IN SLAB-ON-GRADE. REF SPECIFICATION SECTION 03312.
- 2.8 HORIZ BARS IN FOOTINGS AND CONCRETE STEM WALLS, WHERE APPLICABLE, SHALL BE CONTINUOUS. PROVIDE CORNER BARS AT ALL CORNERS AND INTERSECTIONS UNO. REF CORNER BAR DETAIL.
- 2.9 FOUNDATION WALLS SHALL HAVE TEMPORARY BRACING BEFORE BACKFILL IS PLACED AGAINST THEM. TEMPORARY BRACING SHALL NOT BE REMOVED UNTIL WALL IS PERMANENTLY BRACED.
- 2.10 FOUNDATION PENETRATIONS SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT/ENGINEER. PENETRATIONS SHALL BE THROUGH FOUNDATION STEMWALL OR 6" CLEAR BELOW FOOTING.
- 2.11 THE CONTRACTOR MUST READ THE SOILS REPORT AND BE THOROUGHLY FAMILIAR WITH SITE AND SUBGRADE INFORMATION GIVEN THEREIN.
- 2.12 THE BUILDING PAD WILL INCLUDE, BUT NOT BE LIMITED TO THAT WHICH IS PRESENTED IN THE "FOUNDATION SUBSURFACE PREPARATION" DESCRIPTION. THE "FOUNDATION SUBSURFACE PREPARATION" SHALL GOVERN OVER DISCREPANCIES OR OPTIONS NOTED IN THE SOILS REPORT.

3.0 CONCRETE AND REINFORCING STEEL
- 3.1 MINIMUM COMPRESSIVE STRENGTH (f'c) AT THE END OF 28 DAYS SHALL BE AS FOLLOWS:
  - A. STRUCTURAL CAST-IN-PLACE CONCRETE FOOTINGS — 3000 PSI — SPECIFICATION SECTION 03310
  - B. EXTERIOR CAST-IN-PLACE CONCRETE SLABS — REF SPECS — SPECIFICATION SECTION 03310
  - C. INTERIOR CAST-IN-PLACE CONCRETE SLABS — 3500 PSI — SPECIFICATION SECTION 03312

  FOR ALL OTHER CONCRETE PROPERTIES REFER TO SPECIFICATIONS.
- 3.2 CONCRETE FREEZING AND THAWING EXPOSURE CLASS SHALL BE F2 AND SULFATE EXPOSURE CLASS SHALL BE S0. 1
- 3.3 REINFORCING STEEL SHALL MEET ASTM SPECIFICATION A 615, DEFORMED BAR, GRADE 60 OR ASTM SPECIFICATION A 706, DEFORMED BAR, GRADE 60. REF SHEET S0 FOR LAP LENGTHS UNO ON DETAILS.
- 3.4 REFER TO ACI 318 FOR CONCRETE COVER, ACI 315 FOR DETAILING PRACTICES AND FABRICATION, AND ACI 301 FOR STANDARD PRACTICE FOR MIXING AND PLACING CONCRETE.
- 3.5 LEAN CONCRETE - MIN 2 1/2 SACKS PORTLAND CEMENT PER CUBIC YARD.

4.0 STRUCTURAL STEEL
- 4.1 STRUCTURAL STEEL SHALL MEET THE FOLLOWING MINIMUM YIELD STRENGTH AND SPECIFICATIONS:

STRUCTURAL STEEL	YIELD	ASTM SPECIFICATION
A. WIDE FLANGE STEEL SHAPES:	50 KSI	A 992
B. SQUARE AND RECTANGULAR HOLLOW STRUCTURAL SHAPES:	50 KSI	A 500 GRADE C
C. BARS, PLATES, CHANNELS, ANGLES, & ANCHOR BOLTS:	36 KSI	A 36, UNO
D. HEADED STUD ANCHORS:	50 KSI	A 108 (GRADE DESIGNATIONS 1010 TO 1020, INCLUSIVE)

- 4.2 BOLTS FOR STEEL BEAM AND COLUMN CONNECTIONS SHALL BE 3/4" DIAMETER ASTM A 325-N HIGH-STRENGTH BOLTS, UNO. ALL BOLTED CONNECTIONS ARE BEARING TYPE. ALL BOLTS SHALL BE TIGHTENED SNUG TIGHT, UNO.
- 4.3 WELDING SHALL MEET ANSI/AWS D1.1 STRUCTURAL WELDING CODE. ELECTRODES SHALL BE 70 KSI LOW HYDROGEN.
- 4.4 THE FABRICATOR SHALL BE RESPONSIBLE FOR THE DESIGN AND ADEQUACY OF CONNECTIONS THAT ARE NOT DESIGNED OR FULLY DETAILED ON THE CONTRACT DOCUMENTS.
- 4.5 PROVIDE DOUBLE NUTS AND DOUBLE WASHERS FOR STEEL COLUMN ANCHOR BOLTS TO ALLOW FOR ADJUSTMENT IN BASE PLATE ELEVATION.
- 4.6 PROVIDE 1 1/2 INCH NON-SHRINK GROUT UNDER BASE PLATE AFTER ERECTION.
- 4.7 PROVIDE L5x3x1/4 (LLV) FIELD-FABRICATED FRAME BETWEEN BEAMS AT OPENINGS IN ROOF GREATER THAN 10"x10", UNO, (INCLUDING ROOF DRAIN AND EXHAUST FAN OPENINGS REGARDLESS OF OPENING SIZE).

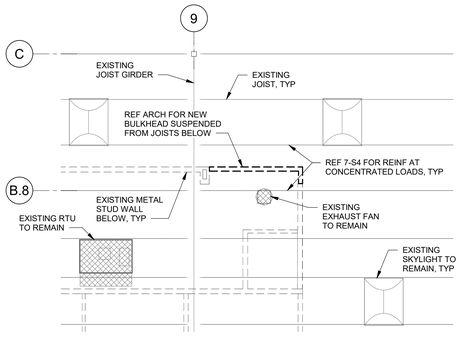
5.0 STEEL JOISTS AND JOIST GIRDERS
- 5.1 ALL LOADS SHOWN ON THE DRAWINGS ARE DESIGN WORKING LOADS FOR WORKING STRESS DESIGN WITH APPROPRIATE BUILDING CODE LOAD FACTOR ALREADY APPLIED. NO INCREASE IN STRESS OR LOAD REDUCTION IS ALLOWED FOR WIND OR SEISMIC LOAD COMBINATIONS. ALL ADDITIONAL SPECIFIED AXIAL LOADS ARE TO BE ADDITIVE TO FULL GRAVITY AND FULL UPLIFT LOADS TO PRODUCE THE WORST CASE CONDITION.
- 5.2 THE LIVE LOAD DEFLECTION LIMIT FOR JOIST AND JOIST GIRDERS IS L/240, UNLESS NOTED OTHERWISE. PROVIDE 5" BEARING SEATS FOR ALL JOISTS AND 7 1/2" BEARING SEATS FOR ALL JOIST GIRDERS. LIMIT JOIST GIRDER SEAT WIDTH TO A MAXIMUM OF 9". ALL JOISTS AND JOIST GIRDERS SHALL RESIST THE MOST CRITICAL EFFECTS FROM THE LOAD COMBINATIONS LISTED IN THE APPLICABLE BUILDING CODE. JOISTS AND JOIST GIRDERS SHALL RESIST THE NET ROOF UPLIFT PRESSURE SHOWN IN THE DESIGN LOADS.
- 5.3 ALL JOISTS AND JOIST GIRDERS AT PERIMETER WALLS SHALL BE LIMITED TO A LIVE LOAD DEFLECTION OF L/360. LIMIT TOP CHORD WIDTH TO A MAXIMUM OF 9".
- 5.4 WHERE JOISTS ARE PARALLEL TO AND NEAR WALLS, PROVIDE A MAXIMUM 1/2" CAMBER.
- 5.5 JOIST MANUFACTURER SHALL DESIGN THE COMPRESSION CHORD OF ALL JOISTS SUPPORTING ROOF TOP UNITS, SKY LIGHTS, AND OTHER STRUCTURES FOR AN UNBRACED LENGTH APPLICABLE TO THE CONDITIONS AT THE PROJECT WHERE THE UNBRACED LENGTH IS GREATER THAN THE SJI MAXIMUM.
- 5.6 JOIST GIRDER MANUFACTURER SHALL CONSIDER THE EFFECTS OF THE TWISTING FORCES ON A JOIST GIRDER INDUCED WHEN UNEQUAL LENGTH JOISTS BEAR ON OPPOSITE SIDES OF THE SAME JOIST GIRDER. ANY ADDITIONAL BOTTOM CHORD BRACING REQUIRED TO RESIST THE TORSIONAL FORCES MUST BE DESIGNED AND SPECIFIED ON THE JOIST GIRDER SUBMITTAL BY THE JOIST GIRDER MANUFACTURER.
- 5.7 JOISTS SUPPORTING ROOF TOP EQUIPMENT SHALL HAVE A MINIMUM TOP CHORD WIDTH OF 6" TO ALLOW FOR PROPER INSTALLATION OF HEADERS WHERE REQUIRED. IF TOP CHORD WIDTH IS GREATER THAN 9" COORDINATE HEADER OFFSET WITH STEEL SUPPLIER.
- 5.8 HANGERS SUPPORTING MECHANICAL EQUIPMENT FROM JOIST CHORDS SHALL BE LOCATED WITHIN 3" OF JOIST PANEL POINTS OR JOIST SHALL BE REINFORCED PER JOIST REINFORCING DETAIL. HANGER LOADS GREATER THAN 100 POUNDS SHALL NOT BE ATTACHED TO THE EDGE OF CHORD ANGLES AND SHALL BE CENTERED ON JOIST CHORD.
- 5.9 STEEL JOISTS AND JOIST GIRDERS SHALL HAVE BRIDGING AND BOTTOM CHORD BRACING DESIGNED AND PROVIDED PER THE CURRENT STEEL JOIST INSTITUTE SPECIFICATIONS. DIAGONAL BRIDGING SHALL BE PROVIDED BETWEEN ADJACENT JOISTS WHENEVER BOTTOM CHORD HORIZONTAL BRIDGING IS DISCONTINUOUS.
- 5.10 SPECIAL JOISTS AND JOIST GIRDERS THAT REQUIRE SPECIFIC ORIENTATION SHALL BE TAGGED AT ONE END. DEFINE LOCATION OF TAGGED END ON ERECTION DRAWINGS.
- 5.11 EXISTING STEEL JOISTS AND JOIST GIRDERS ARE ASSUMED TO BE IN GOOD CONDITION AND IN COMPLIANCE WITH THE STEEL JOIST INSTITUTE SPECIFICATIONS. ANY DAMAGE TO EXISTING JOISTS OR GIRDERS SHALL BE REPORTED PRIOR TO ADDING LOAD TO FRAMING.
- 5.12 ALL WELDING SHALL CONFORM TO THE CURRENT AMERICAN WELDING SOCIETY SPECIFICATIONS AND BE PERFORMED BY CERTIFIED WELDERS. DO NOT OVER WELD OR BURN THRU JOIST MATERIAL. ANY DAMAGE TO EXISTING JOIST SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.

6.0 STEEL ROOF DECK
- 6.1 ROOF DECK SHALL BE PAINTED TYPE "B" (WIDE RIB) THREE SPAN MIN (UNO ON FRAMING PLAN) AS SHOWN ON ROOF FRAMING PLAN. THE STEEL ROOF DECK IS REQUIRED TO ACT AS A DIAPHRAGM. REFER TO THE ROOF DIAPHRAGM CONNECTION DIAGRAM AND SCHEDULE FOR ATTACHMENT PATTERN OPTIONS.
- 6.2 PROVIDE 2 LAYERS OF ROOF DECK WHERE SINGLE SPAN CONDITION EXISTS. MAKE DIAPHRAGM CONNECTIONS AFTER PLACEMENT OF BOTH LAYERS OF ROOF DECK. SINGLE SPAN SHALL BE CONSIDERED WHERE DECK IS NOT CONTINUOUS BETWEEN THREE ADJACENT BEAMS AND/OR PERIMETER ANGLE.
- 6.3 WHEN THE ROOF DECK IS WELDED, WELDING RODS SHALL BE E 6022.

7.0 NOT USED

8.0 MASONRY
- 8.1 CONCRETE MASONRY UNITS SHALL MEET ASTM SPECIFICATION C 90. THE SPECIFIED DESIGN COMPRESSIVE STRENGTH OF CONCRETE MASONRY (F'm) SHALL BE 2000 PSI. THE NET AREA COMPRESSIVE STRENGTH OF THE CONCRETE MASONRY UNITS SHALL BE 2000 PSI.
- 8.2 MORTAR SHALL BE A PREBLENDED DRY MIX CONFORMING TO ASTM C 1714 AND MEETING THE PROPERY SPECIFICATIONS OF ASTM C 270 TYPE "S" MORTAR. REF SPECIFICATION SECTION 04200 FOR ADDITIONAL REQUIREMENTS.
- 8.3 GROUT SHALL MEET ASTM SPECIFICATION C 476 AND HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2000 PSI. REF SPECIFICATION SECTION 04200 FOR ADDITIONAL REQUIREMENTS.
- 8.4 GROUT SHALL BE MECHANICALLY CONSOLIDATED USING A VIBRATOR WITH A MAXIMUM 3/4" DIAMETER HEAD. REF SPECIFICATION SECTION 04200.
- 8.5 HORIZONTAL JOINT REINFORCEMENT SHALL BE LADDER TYPE, REF SPEC SECTION 04200. REFER TO CMU WALL REINFORCEMENT DIAGRAM FOR SPACING.
- 8.6 CONCRETE MASONRY SHALL BE LAID IN RUNNING (COMMON) BOND.
- 8.7 CONCRETE MASONRY BELOW FINISHED FLOOR SHALL BE NORMAL WEIGHT UNITS AND SHALL HAVE ALL CELLS FULLY GROUTED. CONCRETE MASONRY ABOVE FINISHED FLOOR SHALL BE LIGHT WEIGHT OR NORMAL WEIGHT AND SHALL BE GROUTED ONLY AT REINFORCED CELLS AND BOND BEAMS, UNO
- 8.8 INSTALL TEMPORARY BRACING AT ALL CMU WALLS. DO NOT REMOVE TEMPORARY BRACING UNTIL WALL IS PERMANENTLY BRACED BY CONNECTION TO THE ROOF STRUCTURE.
- 8.9 REFER TO CMU WALL DETAILS FOR PRIMARY WALL REINFORCEMENT.
- 8.10 REFER TO CMU WALL REINFORCING DIAGRAM AND TYPICAL MASONRY WALL OPENING DIAGRAM AND SCHEDULE FOR ADDITIONAL REINFORCING AT OPENINGS, CONTROL JOINTS, CORNERS AND ENDS OF WALL PANELS.
- 8.11 REFER TO FOUNDATION DETAILS, AND FRAMING DETAILS FOR ADDITIONAL BOND BEAM LOCATIONS AND EMBEDDED ITEMS.
- 8.12 PROVIDE HORIZONTAL REINFORCEMENT AS INDICATED IN THE CMU WALL DETAILS. USE OPEN KNOCK OUT BOND BEAM BLOCK. DO NOT USE TROUGH TYPE BLOCKS FOR BOND BEAMS. DO NOT CONTINUE BOND BEAM REINFORCING THROUGH CONTROL JOINTS, UNO.
- 8.13 MASONRY CONSTRUCTION REQUIRES SPECIAL INSPECTION. REF SPECIFICATION SECTION 04200 FOR REQUIREMENTS.
- 8.14 WHERE NEW GROUT IS REQUIRED FOR CAST-IN-PLACE OR POST-INSTALLED ANCHORS, PROVIDE 12" GROUT COVER ON ALL SIDES OF THE ANCHORS. CREATE A HOLE IN CMU ON INTERIOR SIDE OF WALL FOR GROUT INSERTION. PROVIDE PLUG AT BOTTOM. REPAIR HOLE AS REQUIRED.

9.0 POST-INSTALLED ANCHORS
- 9.1 POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS



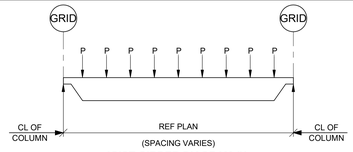
5 PARTIAL ROOF FRAMING PLAN
1/8" = 1'-0"

JOIST GIRDER SCHEDULE

			PANEL POINT LOADS (DEAD LOAD + ROOF LIVE/SNOW LOAD) (KIPS)											
MARK	DEPTH	GRID	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	GRID	NOTES
OPJG1	60"	B	4.7	4.7	4.7	4.7	4.6	4.5	4.5	4.5	4.5	0.0	B.9	1,2,3,4
OPJG2	36"	B	5.9	6.2	6.2	6.2	0.0	0.0	0.0	0.0	0.0	0.0	B.5	1,2,3,4
OPJG3	36"	B.5	6.0	6.0	6.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	B.9	1,2,3,4
OPJG4	36"	B.9	4.8	4.8	4.8	4.8	4.8	0.0	0.0	0.0	0.0	0.0	C.8	1,2,3,4
OPJG5	36"	B.9	6.4	6.4	6.4	6.4	6.4	0.0	0.0	0.0	0.0	0.0	C.8	1,2,3,4
OPJG6	36"	C.8	4.9	4.9	4.9	4.9	4.9	0.0	0.0	0.0	0.0	0.0	D.5	1,2,3,4
OPJG7	36"	C.8	6.5	6.5	6.5	6.5	6.5	0.0	0.0	0.0	0.0	0.0	D.5	1,2,3,4
OPJG8	36"	D.5	4.7	4.7	4.7	4.7	4.7	4.6	0.0	0.0	0.0	0.0	E.3	1,2,3,4
OPJG9	36"	D.5	6.2	6.2	6.2	6.2	6.2	5.8	0.0	0.0	0.0	0.0	E.3	1,2,3,4

JOIST GIRDER NOTES

1. A. ROOF LIVE LOAD INCLUDES BASE SNOW AND SNOW DRIFT LOAD WHERE APPLICABLE.
   B. LOADS DO NOT INCLUDE JOIST GIRDER SELF WEIGHT.
   C. JOIST GIRDERS SHALL HAVE 7 1/2" SEATS.
   D. LIMIT JOIST GIRDER SEAT WIDTH TO A MAXIMUM OF 11 INCHES.
   E. LOADS INCLUDE POINT LOADS SHOWN ON FRAMING PLAN (e.g. RTU'S, DRAIN LINES, SOFFITS, ETC).
   F. THE LIVE LOAD DEFLECTION LIMIT IS L/240 UNLESS NOTED OTHERWISE IN THE SCHEDULE.
2. ALL LOADS SHOWN ON THESE DIAGRAMS AND ON OTHER DRAWINGS ARE SERVICE LEVEL LOADS. JOIST GIRDERS SHALL RESIST THE MOST CRITICAL EFFECTS FROM THE LOAD COMBINATIONS LISTED IN THE APPLICABLE BUILDING CODE.
3. JOIST GIRDER MANUFACTURER SHALL CONSIDER THE EFFECTS OF THE TWISTING FORCES ON A JOIST GIRDER INDUCED WHEN UNEQUAL LENGTH JOISTS BEAR ON OPPOSITE SIDES OF THE SAME JOIST GIRDER. ANY ADDITIONAL BOTTOM CHORD BRACING REQUIRED TO RESIST THE TORSIONAL FORCES MUST BE DESIGNED AND SPECIFIED ON THE JOIST GIRDER SUBMITTAL BY THE JOIST GIRDER MANUFACTURER.
4. JOIST GIRDERS AT PERIMETER WALLS SHALL BE LIMITED TO A LIVE LOAD DEFLECTION OF L/360 AND A TOP CHORD WIDTH OF 11 INCHES.



JOIST GIRDER DIAGRAM #1

4 JOIST GIRDER SCHEDULE
NTS

JOIST SCHEDULE

	JOIST SIZE		UNIFORM GRAVITY LOADS (PLF)				SNOW DRIFT			
MARK	DEPTH	TYPE	DEAD LOAD (DL)	LIVE LOAD (LL)	PONDING LOAD (PL)	SNOW LOAD (SL)	S1 (PLF)	X (FT)	DIAGRAM NUMBER	NOTES
OPJ1	20"	KSP	84	112	240	95	490	23' - 8"	1.2	1,2,3,4
OPJ2	20"	KSP	84	112	240	182	403	17' - 0"	2.3	1,2,3,4

JOIST SCHEDULE NOTES

1. A. UNIFORM GRAVITY LOADS ARE TABULATED FOR EACH JOIST AS FOLLOWS:
   - DEAD LOAD (DL) = DEAD LOADS (REF SHEET S0)
   - LIVE LOAD (LL) = ROOF LIVE LOADS (REF SHEET S0)
   - SNOW LOAD (SL) = SNOW LOADS (REF SHEET S0)
   - PONDING LOAD (PL) = PONDING LOAD (REF S0 AND DIAGRAM #2)
   - SNOW DRIFT LOADS SHALL BE USED IN CONJUNCTION WITH DEAD AND SNOW LOADS ONLY (DL+SL).
   - PONDING LOAD SHALL BE A LIVE LOAD IN ADDITION TO THE UNIFORM ROOF LIVE LOAD. PONDING LOAD SHALL NOT BE INCLUDED WITH THE SNOW LOADS.

   B. IN ADDITION TO THE ROOF UNIFORM GRAVITY LOADS, DESIGN SPECIAL JOISTS TO ACCOMODATE THE SNOW DRIFT LOADS SHOWN IN THE JOIST SCHEDULE, RTU LOADS, SOFFIT LOADS, AND ANY OTHER CONCENTRATED OR DISTRIBUTED LOADS INDICATED IN THE JOIST DIAGRAMS OR FRAMING PLANS.

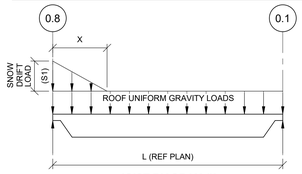
   C. RTU AND RCU LOADS ARE PROVIDED IN THE STRUCTURAL ROOF CURB SCHEDULE. REF 5-S4 FOR LOCATIONS AND DETAILS.

   D. ALL LOADS SHOWN ON THESE DIAGRAMS AND ON OTHER DRAWINGS ARE DESIGN WORKING LOADS FOR WORKING STRESS DESIGN WITH APPROPRIATE BUILDING CODE LOAD FACTOR ALREADY APPLIED. NO INCREASE IN STRESS OR LOAD REDUCTION IS ALLOWED FOR WIND OR SEISMIC LOAD COMBINATIONS. ALL ADDITIONAL SPECIFIED AXIAL LOADS ARE TO BE ADDITIVE TO FULL GRAVITY AND FULL UPLIFT LOADS TO PRODUCE THE WORST CASE CONDITION.

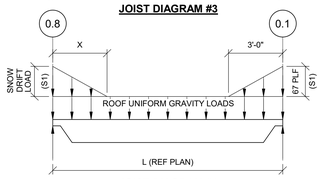
   E. THE LIVE LOAD DEFLECTION LIMIT IS L/240.

   F. PROVIDE 5" JOIST SEATS AT ALL JOISTS, UNO.
2. ALL LOADS SHOWN ON THESE DIAGRAMS AND ON OTHER DRAWINGS ARE SERVICE LEVEL LOADS. JOISTS SHALL RESIST THE MOST CRITICAL EFFECTS FROM THE LOAD COMBINATIONS LISTED IN THE APPLICABLE BUILDING CODE.
3. JOISTS SUPPORTING RTU SHALL HAVE A MINIMUM TOP CHORD WIDTH OF 6" TO ALLOW FOR PROPER INSTALLATION OF HEADERS WHERE REQUIRED. IF TOP CHORD WIDTH SUPPORTING RTU IS GREATER THAN 6" COORDINATE HEADER OFFSET WITH STEEL SUPPLIER.
4. ALL JOISTS SHALL BE DESIGNED FOR THE FOLLOWING SEISMIC LOADS:
   A. SEISMIC LOAD COMBINATIONS (ALLOWABLE STRESS):
   - 1.0*DL + 0.14*Sds*DL + 0.7*E
   - 0.6*DL - 0.14*Sds*DL + 0.7*E
   - SEISMIC LOADS SHALL NOT BE COMBINED WITH ROOF LIVE OR WIND LOADS.

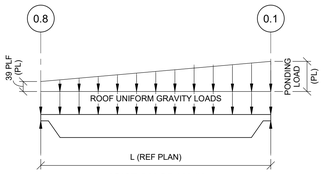
   B. WALL ANCHORAGE - DESIGN ALL JOISTS FOR AN ADDITIONAL AXIAL SEISMIC LOAD (0.7*E) OF 1.0 KIPS (SERVICE) APPLIED TO THE JOIST TOP CHORD.



JOIST DIAGRAM #3

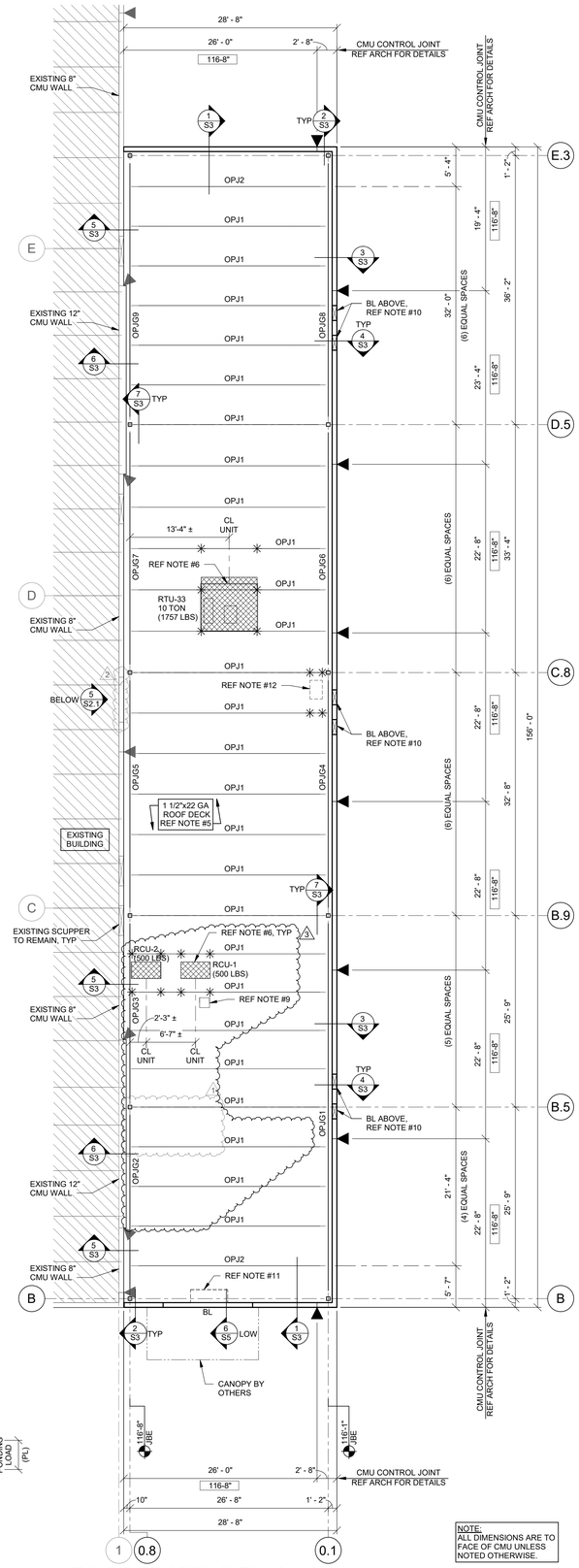


JOIST DIAGRAM #1



JOIST DIAGRAM #2

3 JOIST SCHEDULE AND DIAGRAM
NTS

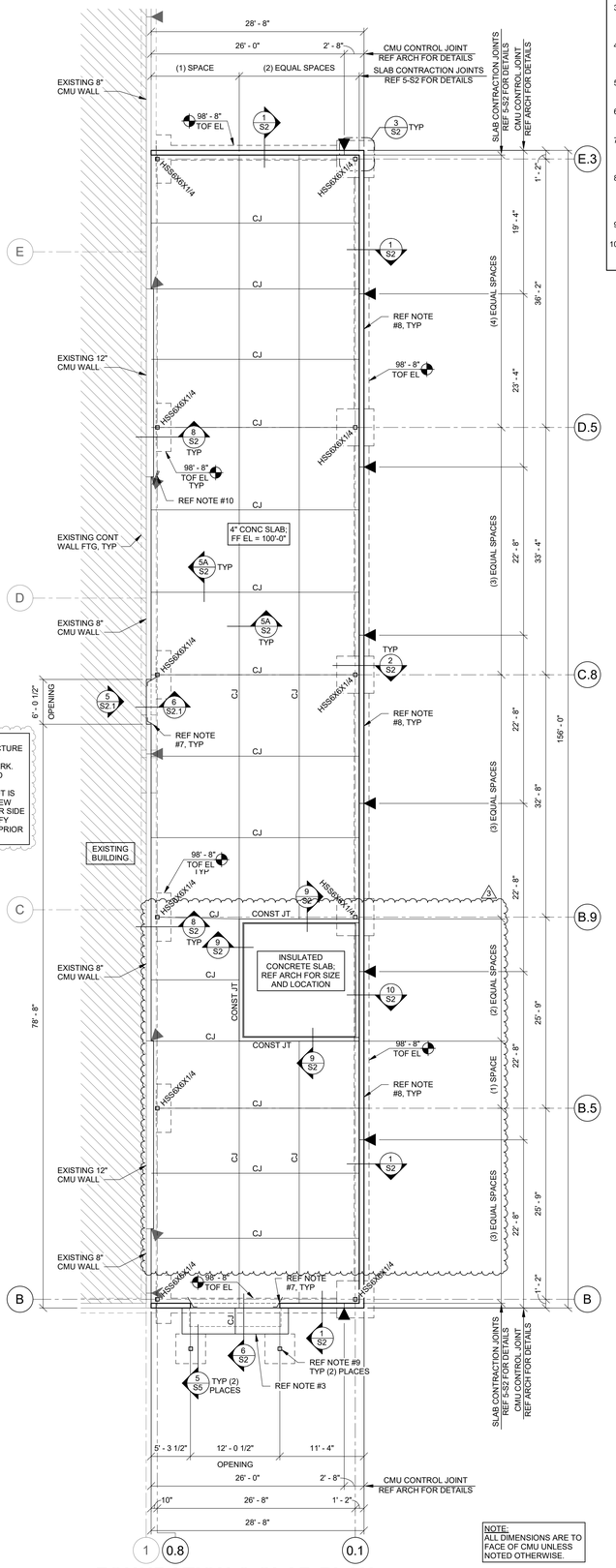


NOTE:
ALL DIMENSIONS ARE TO FACE OF CMU UNLESS NOTED OTHERWISE.

2 ROOF FRAMING PLAN
1/8" = 1'-0"

ROOF FRAMING PLAN NOTES

1. REFER TO SHEETS S0 AND S4 FOR GENERAL NOTES AND DESIGN CRITERIA.
2. NOTE TO GENERAL CONTRACTOR: REFER TO SECTION 05120 OF THE CONTRACT SPECIFICATIONS FOR OWNER SUPPLIED STRUCTURAL STEEL. ALL OTHER STRUCTURAL AND MISCELLANEOUS STEEL NOT PROVIDED UNDER SECTION 05120 SHALL BE PROVIDED BY THE GENERAL CONTRACTOR AS NOTED IN SECTION 05500 OF THE SPECIFICATIONS.
3. "BL" DENOTES CMU BLOCK LINTEL. REFER TO CMU LINTEL SCHEDULE (1-S4) FOR SIZE AND REINFORCEMENT.
4. NOTE TO JOIST MANUFACTURER: PROVIDE STANDARD BRIDGING COMPLYING WITH THE APPLICABLE STEEL JOIST INSTITUTE SPECIFICATIONS TYPICAL FOR GRAVITY AND UPLIFT LOADS SUPERIMPOSED ON ALL JOISTS. DIAGONAL BRIDGING SHALL BE PROVIDED BETWEEN ADJACENT JOISTS WHENEVER BOTTOM CHORD HORIZONTAL BRIDGING IS DISCONTINUOUS.
5. REF ROOF DIAPHRAGM CONNECTION DETAIL 6-S4 FOR DECK ATTACHMENT TO ROOF FRAMING MEMBERS AND DECK FASTENER TYPE, SIZE AND SPACING.
6. REF 5-S4 FOR ROOFTOP EQUIPMENT CURB SUPPORT DETAILS.
7. DIMENSIONS LOCATING THE ROOF TOP EQUIPMENT WITH A (+/-) ARE APPROXIMATE AND CONTRACTOR MAY ADJUST LOCATION OF CURBS (MAXIMUM ALLOWED MOVEMENT IS 9"). CURB SHALL NOT BE SHIFTED IF IT CAUSES A CONFLICT WITH PENETRATIONS.
8. DESIGN JOIST FOR AN ADDITIONAL CONCENTRATED LOAD APPLIED TO THE TOP CHORD WHERE SHOWN BY THE * ON ROOF FRAMING PLAN. REF STRUCTURAL CURB SCHEDULE FOR ROOF LOADS AND REF 5-S4 FOR CURB SUPPORT DETAILS. JOIST REINFORCEMENT PER 7-S4 APPLIES.
9. PROVIDE FIELD FABRICATED FRAMES PER GENERAL NOTE 4.7 AT ROOF OPENINGS, TYP.
10. REF ARCH FOR SCUPPER OPENING LOCATIONS. REF 1-S4 FOR OPENING REINFORCEMENT AND DETAILS.
11. REF MECH FOR AIR CURTAIN AND EXACT LOCATION. REF 8-S3 FOR SUPPORT FRAMING.
12. TRANSFORMER (515 LBS) BELOW. REF ELEC FOR EXACT LOCATION AND FOR SUPPORT FRAMING. DESIGN JOISTS FOR (2) 200 LBS CONCENTRATED LOADS APPLIED TO THE BOTTOM CHORD, SPACED 2'-0" APART AND LOCATED ANYWHERE WITHIN THE FIRST 6'-0" OF THE END OF THE JOIST.



NOTE:
ALL DIMENSIONS ARE TO FACE OF CMU UNLESS NOTED OTHERWISE.

1 FOUNDATION & SLAB PLAN
1/8" = 1'-0"

NEW OPENING NOTES:
1. SHORE EXISTING STRUCTURE AS REQUIRED PRIOR TO STARTING ANY NEW WORK.
2. RE-POINT ALL AFFECTED MORTAR JOINTS.
3. IF A CMU CONTROL JOINT IS LOCATED WITHIN THE NEW OPENING OR 4'-0" EITHER SIDE OF NEW OPENING, NOTIFY ENGINEER OF RECORD PRIOR TO CUTTING OF WALL.

FOUNDATION PLAN NOTES

1. NOT USED.
2. VERIFY ALL WALL OPENING DIMENSIONS AND LOCATIONS WITH ARCHITECTURAL DRAWINGS.
3. REF ARCH DRAWINGS FOR SIZE AND LOCATION OF ALL EXTERIOR PADS, DOOR STOOPS AND RAMPS (IF APPLICABLE).
4. DEVIATIONS FROM CONST JT/CJ PATTERN SHOWN MUST BE APPROVED BY THE OWNER'S CONSTRUCTION MANAGER.
5. REFER TO MECHANICAL DRAWINGS FOR FLOOR DRAIN LOCATIONS AND SLAB DEPRESSIONS AT DRAINS.
6. REFER TO ARCHITECTURAL DRAWINGS FOR BOLLARD SLEEVE SIZES AND LOCATIONS.
7. REF TYPICAL RE-ENTRANT CORNER REINFORCING AT DOOR DETAIL 4-S2 FOR ADDITIONAL REINFORCING IN SLAB AT DOOR OPENINGS, TYP.
8. PROVIDE JAMB REINFORCEMENT ABOVE FF EL AT ALL SCUPPER LOCATIONS. REF 1-S4 FOR JAMB DETAIL AND REF ARCH FOR SIZE AND LOCATION OF SCUPPERS, TYP.
9. REF CANOPY MFR FOR EXACT LOCATION OF CANOPY COLUMNS.
10. REF GENERAL NOTE 2.6 FOR SLAB REINFORCING AT RE-ENTRANT CORNERS.

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2	PR #3	08/12/25
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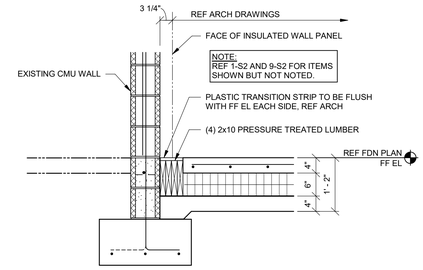
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NORTH CAROLINA PROFESSIONAL SEAL 051041 ENGINEER BRIAN W. MAKOVEC
9/10/25

FOUNDATION AND ROOF FRAMING PLANS

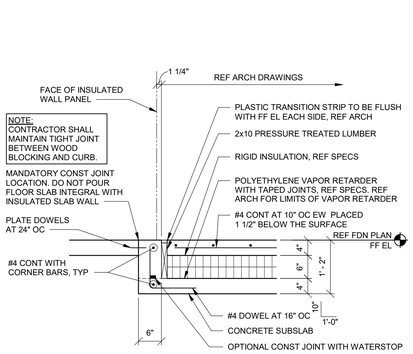
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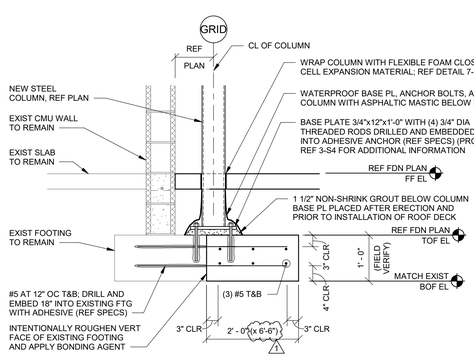
10 INSULATED CONC SLAB AT WALL

3/4" = 1'-0"



9 INSULATED CONCRETE SLAB

3/4" = 1'-0"



8 NEW COLUMN AT EXISTING WALL

3/4" = 1'-0"

7A - COLUMN AT WALL WITH JOINT

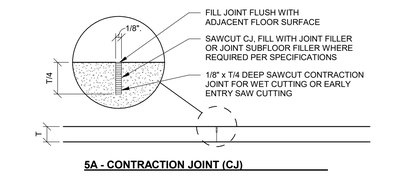
7B - COLUMN AT CORNER

7 COLUMN ISOLATION WRAP

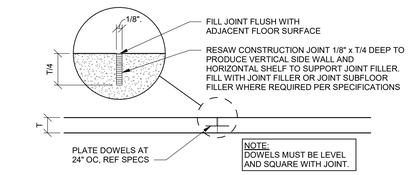
3/4" = 1'-0"

6 SLAB AT OPENING WITH STOOP

3/4" = 1'-0"



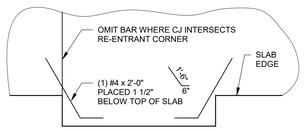
5A - CONTRACTION JOINT (CJ)



5B - CONSTRUCTION JOINT (CONST JOINT)

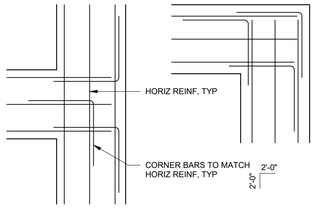
5 CONCRETE SLAB JOINTS

NTS



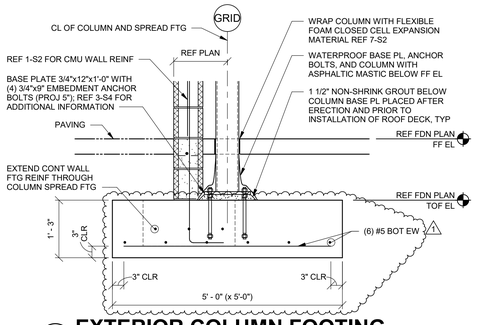
TYPICAL SLAB REINF AT DOOR OPENING

3/4" = 1'-0"



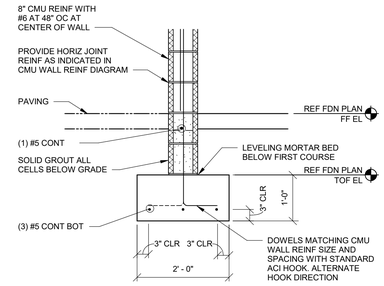
3 CORNER BAR REINF

3/4" = 1'-0"



2 EXTERIOR COLUMN FOOTING

3/4" = 1'-0"



1 EXTERIOR WALL FOOTING

3/4" = 1'-0"

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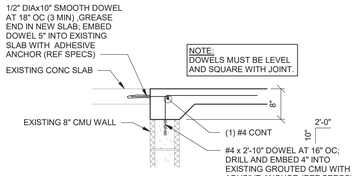
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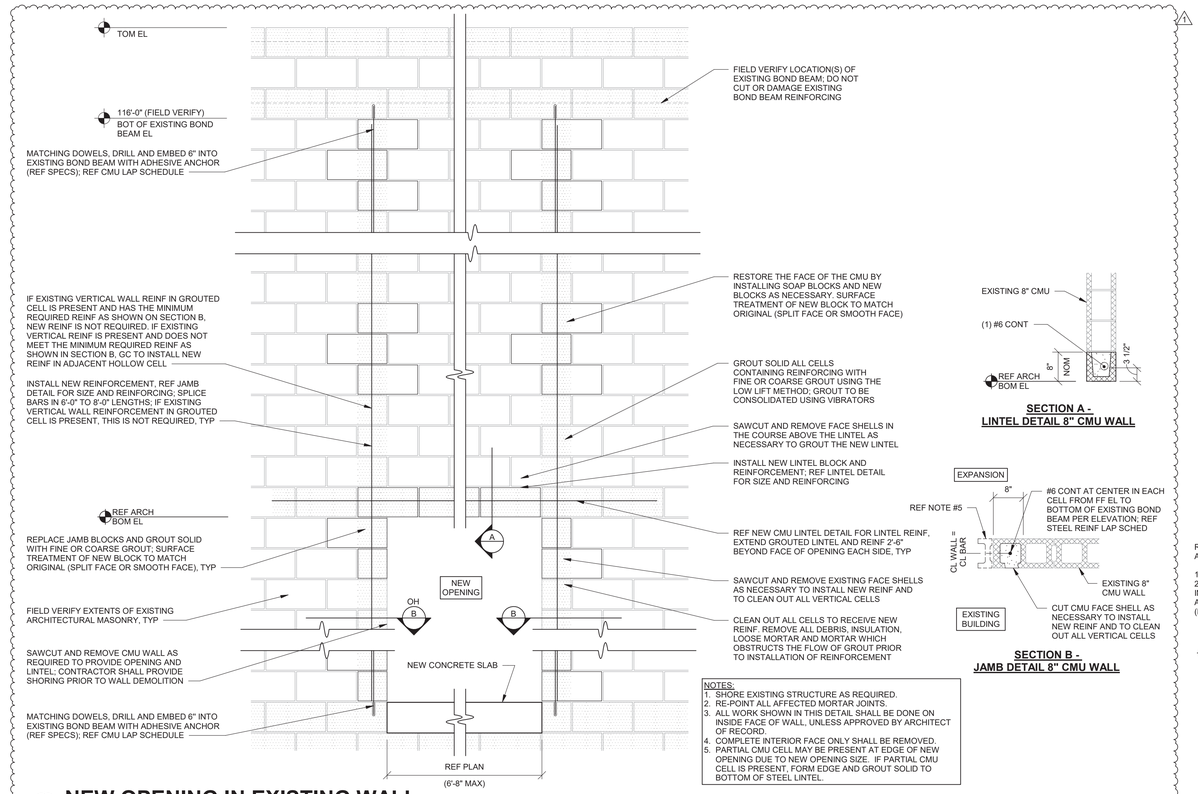
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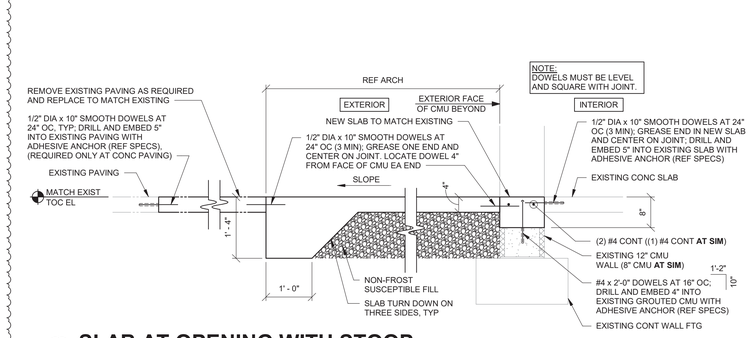
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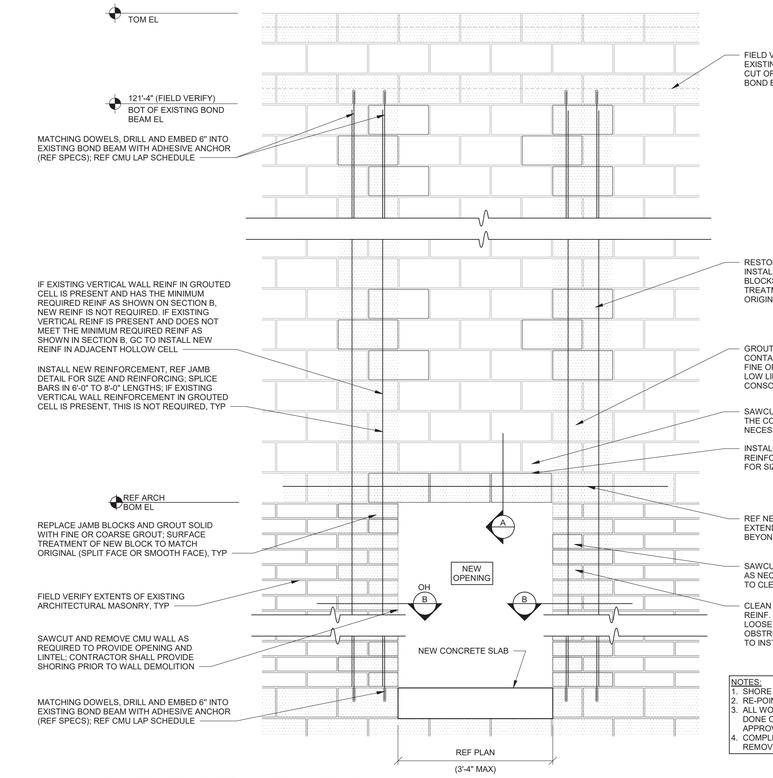
6 SLAB AT NEW OPENING
3/4" = 1'-0"



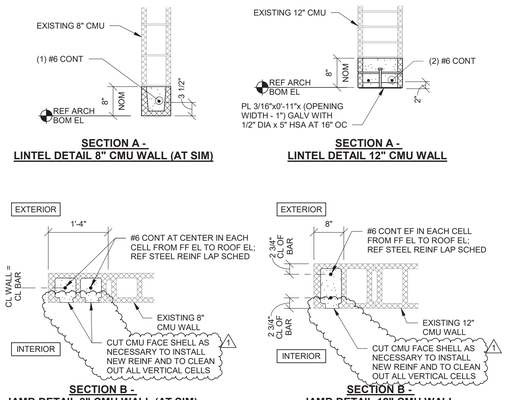
5 NEW OPENING IN EXISTING WALL
3/4" = 1'-0"

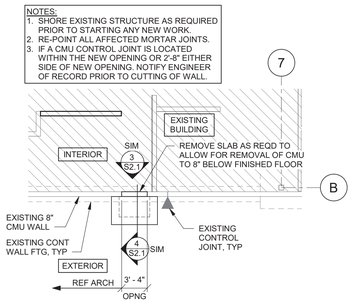


4 SLAB AT OPENING WITH STOOP
3/4" = 1'-0"

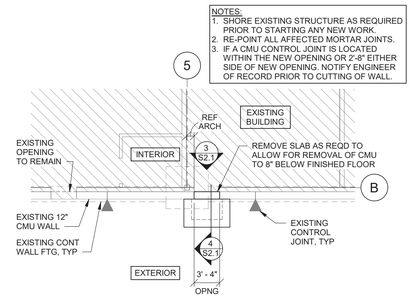


3 NEW OPENING IN EXISTING WALL
3/4" = 1'-0"





2 NEW OPENING PLAN
1/8" = 1'-0"



1 NEW OPENING PLAN
1/8" = 1'-0"

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ISSUE BLOCK		
1	PR #3	08/12/25

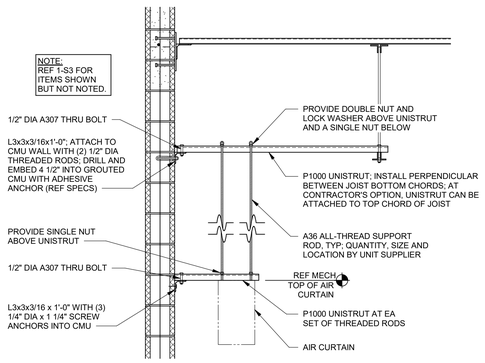
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PROTO CYCLE:	07/26/24
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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 031941 BRIAN W. MALKOVICH
8/11/25

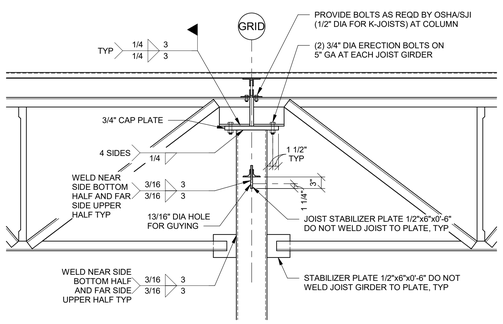
NEW OPENING PLANS AND DETAILS

SHEET: S2.1

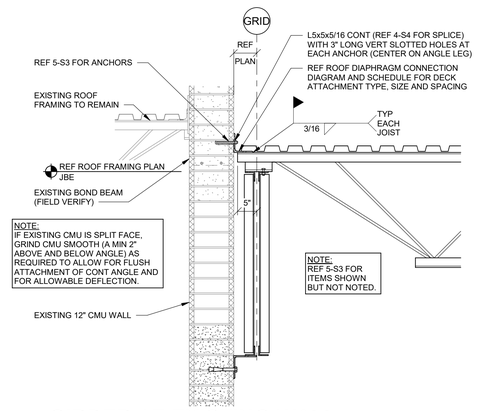
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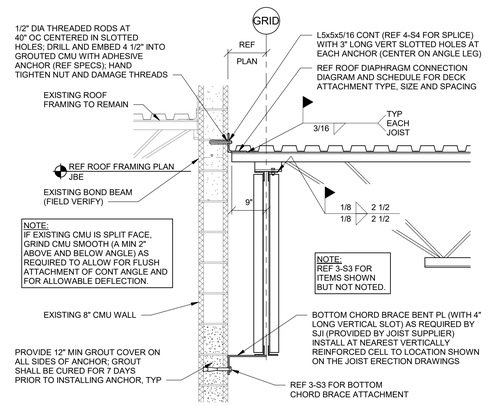
8 AIR CURTAIN SUPPORT
3/4" = 1'-0"



7 JOIST GIRDER TO COLUMN
3/4" = 1'-0"



6 GIRDER AT EXISTING WALL
3/4" = 1'-0"



5 GIRDER AT EXISTING WALL
3/4" = 1'-0"

4 SCUPPER WALL SECTION
3/4" = 1'-0"

3 GIRDER AT WALL
3/4" = 1'-0"

2 GIRDER TO PERIMETER COLUMN
3/4" = 1'-0"

1 DECK BEARING AT WALL
3/4" = 1'-0"

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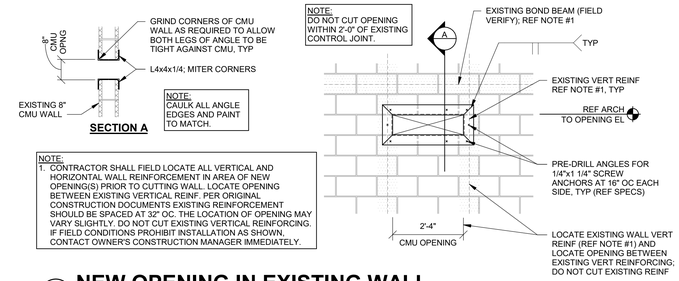
NORTH CAROLINA PROFESSIONAL SEAL 051041 ENGINEER BRIAN W. MARCHESSA
1/7/25

ROOF FRAMING DETAILS

SHEET: S3

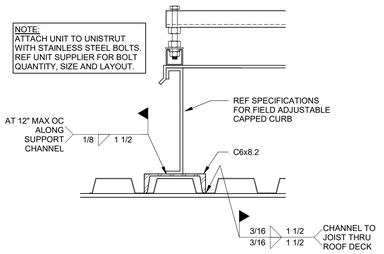
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NOTE:
DO NOT CUT OPENING WITHIN 2'-0" OF EXISTING CONTROL JOINT.

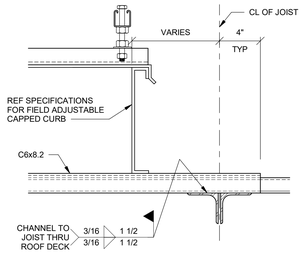


NOTE:
1. CONTRACTOR SHALL FIELD LOCATE ALL VERTICAL AND HORIZONTAL WALL REINFORCEMENT IN AREA OF NEW OPENING(S) PRIOR TO CUTTING WALL. LOCATE OPENING BETWEEN EXISTING VERTICAL REINF. PER ORIGINAL CONSTRUCTION DOCUMENTS EXISTING REINFORCEMENT SHOULD BE SPACED AT 32" OC. THE LOCATION OF OPENING MAY VARY SLIGHTLY. DO NOT CUT EXISTING VERTICAL REINFORCING. IF FIELD CONDITIONS PROHIBIT INSTALLATION AS SHOWN, CONTACT OWNER'S CONSTRUCTION MANAGER IMMEDIATELY.

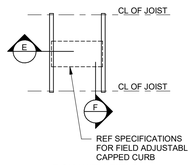
9 NEW OPENING IN EXISTING WALL
1/2" = 1'-0"



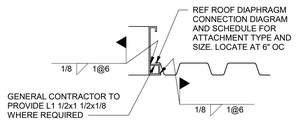
SECTION E



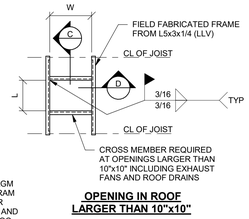
SECTION F



RCU WITH FIELD ADJUSTABLE CAPPED CURB



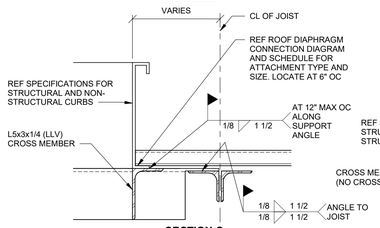
DETAIL 1



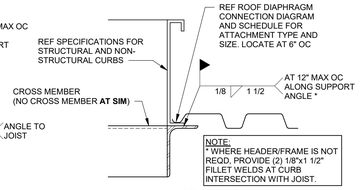
OPENING IN ROOF LARGER THAN 10"x10"

STRUCTURAL CURBS		
UNIT SIZE	CURB WIDTH (W)	POINT LOAD
10 TON	7'-6"	600 LBS
RCU	3'-11"	200 LBS /1

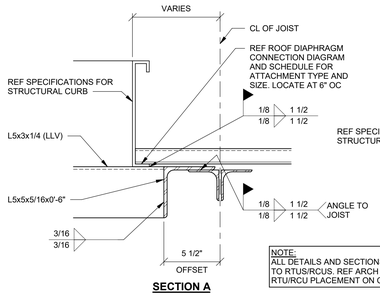
NOTES:
1. INSTALL STRUCTURAL RTU CURBS, HEADERS, AND FRAMES AND WELD TO SUPPORT STEEL BEFORE DECK IS PLACED.
2. NOT USED.
3. GENERAL CONTRACTOR SHALL COORDINATE RTU DIMENSIONS AND FRAMING LOCATIONS WITH THE STEEL FABRICATOR, MECHANICAL AND ERECTION SUBCONTRACTORS.
4. HEADERS ARE REQUIRED FOR STRUCTURAL CURBS WHEN THE CURB DOES NOT SPAN BETWEEN TWO JOIST OR THE CURB CANTILEVERS MORE THAN TWO FEET OVER THE JOIST.
5. REF DETAIL 1 FOR CONNECTION OF DECK PARALLEL TO CURB, WHERE REQUIRED.
6. DO NOT INSTALL STRUCTURAL CURBS ON TOP OF DECK.
7. STEEL SUPPLIER TO FURNISH STOCK ANGLE FOR FIELD FABRICATED FRAMES.
8. REF SPEC SECTION 07721 AND MECHANICAL ROOFTOP HVAC UNIT SCHEDULES FOR RTU/RCU ANCHORAGE.



SECTION C

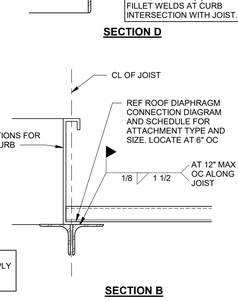


SECTION D

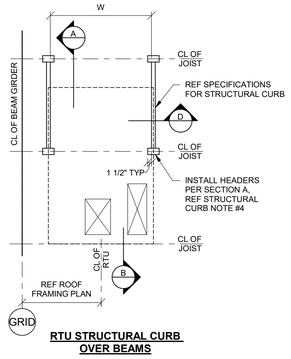


SECTION A

NOTE:
ALL DETAILS AND SECTIONS APPLY TO RTUS/RCUS. REF ARCH. FOR RTU/RCU PLACEMENT ON CURB.

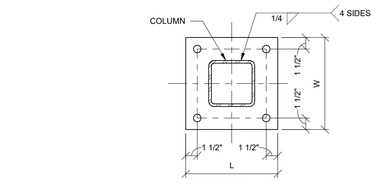


SECTION B

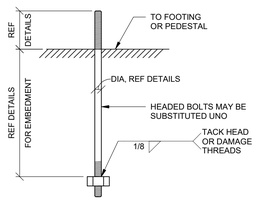


RTU STRUCTURAL CURB OVER BEAMS

5 RTU/RCU FRAMING SUPPORT PLAN
NTS

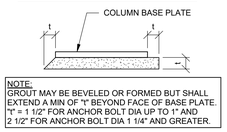


BASE PLATE
NO SCALE



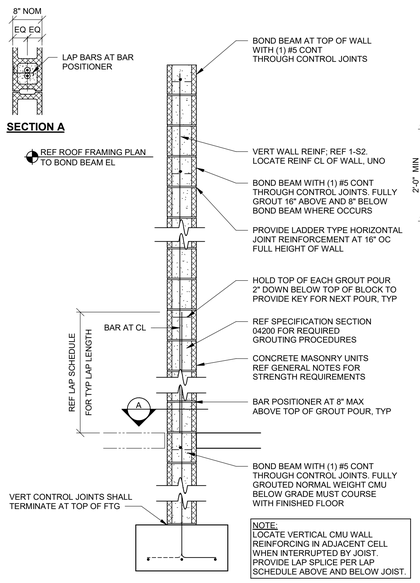
ANCHOR BOLT DIAGRAM
NO SCALE

NOTES:
1. REF DETAILS FOR WIDTH "W", LENGTH "L", AND THICKNESS "THK".
2. ANCHOR BOLTS WITH FORGED HEADS MEETING THE REQUIREMENTS OF ASTM A307 MAY BE SUBSTITUTED FOR 3/4" DIA ANCHOR BOLTS.

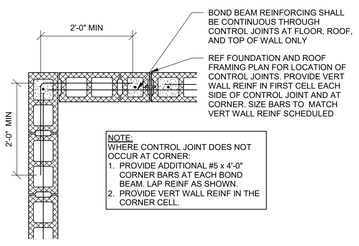


GROUT PLACEMENT
NO SCALE

3 BASE PLATE AND ANCHOR BOLT DIAGRAM
NTS

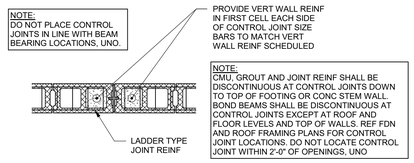


NOTE:
LOCATE VERTICAL CMU WALL REINFORCING IN ADJACENT CELL WHEN INTERRUPTED BY JOIST. PROVIDE LAP SPLICE PER LAP SCHEDULE ABOVE AND BELOW JOIST.



NOTE:
WHERE CONTROL JOINT DOES NOT OCCUR AT CORNER:
1. PROVIDE ADDITIONAL #5 x 4'-0" CORNER BARS AT EACH BOND BEAM. LAP REINF AS SHOWN.
2. PROVIDE VERT WALL REINF IN THE CORNER CELL.

CORNER



NOTE:
DO NOT PLACE CONTROL JOINTS IN LINE WITH BEAM BEARING LOCATIONS, UNO.

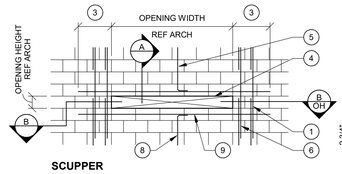
NOTE:
CMU, GROUT AND JOINT REINF SHALL BE DISCONTINUOUS AT CONTROL JOINTS DOWN TO TOP OF FOOTING OR CONC STEM WALL. BOND BEAMS SHALL BE DISCONTINUOUS AT CONTROL JOINTS EXCEPT AT ROOF AND FLOOR LEVELS AND TOP OF WALLS. REF FDN AND ROOF FRAMING PLANS FOR CONTROL JOINT LOCATIONS. DO NOT LOCATE CONTROL JOINT WITHIN 2'-0" OF OPENINGS, UNO

CONTROL JOINT

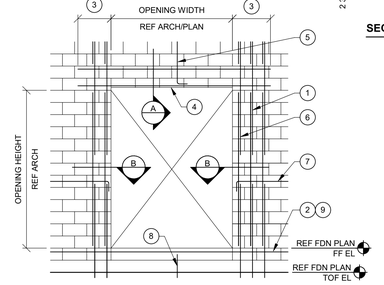
NOTE:
REF S2 FOR FOUNDATION AND S3 FOR FRAMING INFORMATION NOT SHOWN.

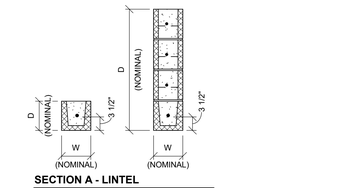
2 CMU WALL REINFORCING DIAGRAM
3/4" = 1'-0"

CMU LINTEL SCHEDULE			
WIDTH (W)	CLEAR SPAN	DEPTH (D)	LINTEL REINFORCEMENT
8"	SCUPPER	8"	(1) #6 BOT
8"	UP TO 12'-1"	2' - 8"	(1) #6 EACH COURSE

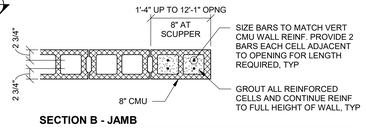


SCUPPER





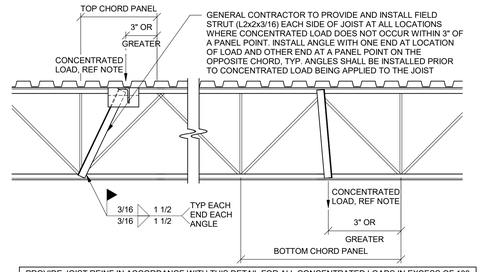
SECTION A - LINTEL



SECTION B - JAMB

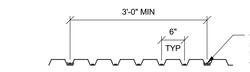
NOTES:
1. SPLICES IN VERT REINF, REF CMU WALL REINF DIAGRAM.
2. BOND BEAM, REF CMU WALL REINF DIAGRAM.
3. EXTEND GROUTED LINTEL A MINIMUM OF 2'-0" OR 40 db (WHICHEVER IS GREATER) BEYOND FACE OF OPENING EACH SIDE (EXTEND BARS THROUGH CONTROL JOINTS OR AROUND CORNERS AS REQUIRED).
4. USE LINTEL BLOCKS ONLY FOR BOTTOM COURSE OF LINTEL BEAMS OVER OPENINGS, UNO.
5. CONTINUE VERT WALL REINF OVER OPENING. ANCHOR VERT REINF INTO LINTEL BEAM WITH STANDARD ACI 90° HOOK.
6. ALL VERT BARS AT OPENING JAMBS TO BE FULL HEIGHT.
7. WHERE HORIZONTAL REINF IS TERMINATED BY OPENING OR CONTROL JOINT PROVIDE STANDARD ACI HOOK WITH VERT WALL REINF IN THE END CELL.
8. CONTINUE VERT WALL REINF BELOW OPENING. ANCHOR WITH STANDARD ACI 90° HOOK INTO CONTINUOUS FOOTING. AT OPENINGS ABOVE FF EL, ANCHOR VERT REINF INTO BOND BEAM BELOW OPENING WITH STANDARD ACI 90° HOOK.
9. PROVIDE (1) #5 AT BOTTOM OF ALL OPENINGS ABOVE FINISHED FLOOR. EXTEND A MINIMUM OF 2'-1" BEYOND FACE OF OPENING EACH SIDE FOR STRAIGHT REINFORCEMENT AND 1'-4" FOR HOOKED REINFORCEMENT WITH STANDARD ACI HOOK. (EXTEND BAR THROUGH CONTROL JOINTS OR AROUND CORNERS AS REQUIRED)

1 TYPICAL MASONRY WALL OPENING DIAGRAM AND SCHEDULE
3/4" = 1'-0"



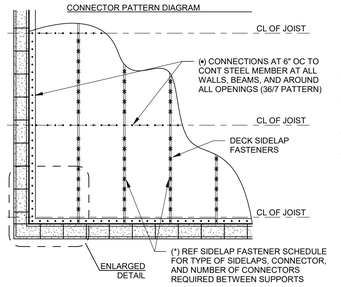
PROVIDE JOIST REINF IN ACCORDANCE WITH THIS DETAIL FOR ALL CONCENTRATED LOADS IN EXCESS OF 100 POUNDS. WHERE MORE THAN ONE CONCENTRATED LOAD EXISTS WITHIN A CHORD PANEL AND THE SUM OF THOSE LOADS EXCEEDS 100 POUNDS, PROVIDE JOIST REINFORCEMENT AS DETAILED SUCH THAT THE SUM OF THE LOADS WITHIN THE REMAINING UNSUPPORTED CHORD LENGTH DOES NOT EXCEED 100 POUNDS.

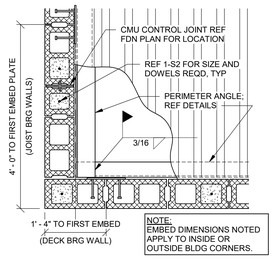
7 JOIST REINFORCING
3/4" = 1'-0"



NOTE:
REF FRAMING DETAILS FOR EMBEDS AND CONT STEEL MEMBERS.

NOTE:
BOND BEAM STEEL NOT SHOWN FOR CLARITY.





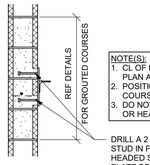
NOTE:
EMBED DIMENSIONS NOTED APPLY TO INSIDE OR OUTSIDE BLDG CORNERS.

ENLARGED DETAIL

ROOF DECK FASTENER SCHEDULE		
(•) DECK TO CONTINUOUS STEEL MEMBER CONNECTOR TYPE (36/7 PATTERN)	(*) SIDE LAP CONNECTOR SPACING	SUITABLE BASE MATERIAL THICKNESS RANGE (IN)
5/8" VISIBLE DIAMETER PUDDLE WELDS	(1) AT (2) EQUAL SPACES	ALL THICKNESSES
#12-14 SELF DRILLING SCREWS	(1) AT (2) EQUAL SPACES	1/8 TO 3/16 INCLUSIVE
#12-24 SELF DRILLING SCREWS	(1) AT (2) EQUAL SPACES	3/16 TO 1/4 INCLUSIVE
#12-24 SIMPSON STRONG DRIVE XL	(1) AT (2) EQUAL SPACES	1/8 TO 7/32 INCLUSIVE
#12-24 SIMPSON STRONG DRIVE XL	(1) AT (2) EQUAL SPACES	1/4 TO 3/8 INCLUSIVE
POWDER ACTUATED HILTI X-HSN-24	(1) AT (2) EQUAL SPACES	1/8 TO 3/8 INCLUSIVE
POWDER ACTUATED HILTI X-ENP-19	(1) AT (2) EQUAL SPACES	THICKER THAN 1/4
AIR ACTUATED PNEUTEK SDK-61075	(1) AT (2) EQUAL SPACES	1/8 THICKNESS
AIR ACTUATED PNEUTEK SDK-63075	(1) AT (2) EQUAL SPACES	5/32 TO 1/4 INCLUSIVE
AIR ACTUATED PNEUTEK K-66062	(1) AT (2) EQUAL SPACES	THICKER THAN 9/32

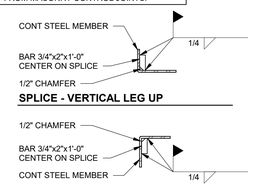
NOTES:
1. ALL SIDE LAP SCREWS SHALL BE #10-16 SELF-DRILLING SCREWS AT EQUAL SPACES.

NOTES:
1. CENTERLINE OF EMBED PLATES SHALL BE AT LEAST 1'-0" AWAY FROM CENTER OF JOIST OR BEAM POCKET.
2. CENTERLINE OF EMBED PLATES SHALL BE AT LEAST 1'-4" AWAY FROM MASONRY CONTROL JOINTS.

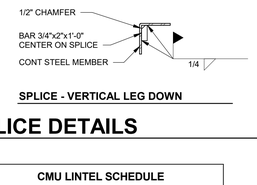


NOTE(S):
1. CL OF PLATE VARIES. REF FRAMING PLAN AND DETAILS.
2. POSITION PLATE WITHIN GROUTED COURSES.
3. DO NOT PLACE HSA IN CMU BED OR HEAD JOINTS.

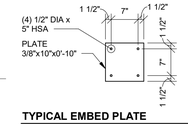
VERTICAL EMBED PLACEMENT



SPLICE - VERTICAL LEG UP



SPLICE - VERTICAL LEG DOWN



TYPICAL EMBED PLATE

4 WALL EMBED AND SPLICE DETAILS
NTS

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STIPULATION FOR REUSE
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JOB NUMBER: 194-23-047 PROTO: 182

ISSUE BLOCK		
1	PR #2	07/25/25

CHECKED BY:	JSH
DRAWN BY:	DTR
PROTO CYCLE:	07/26/24
DOCUMENT DATE:	01/08/25

NORTH CAROLINA PROFESSIONAL SEAL 030644 ENGINEER ERIN W. MAROVEN
7/24/25

GENERAL SCHEDULES AND DIAGRAMS

SHEET: S4

7/24/2025 10:32:39 AM

OWNER SUPPLIED CANOPY DESIGN LOADS

1. BUILDING CODE	
A. BUILDING CODE	2018 NC STATE BUILDING CODE (2015 IBC)
2. GRAVITY LOADS	
A. DEAD LOAD	PER CANOPY MANUF
B. ROOF LIVE LOAD	20 PSF (MIN OR SNOW LOAD)
C. SNOW LOADS	
1. GROUND SNOW LOAD (Pg)	10 PSF
2. IMPORTANCE FACTOR (I)	PER CANOPY MANUF
3. SNOW EXPOSURE FACTOR (Ce)	PER CANOPY MANUF
4. ROOF THERMAL FACTOR (Ct)	PER CANOPY MANUF
5. FLAT ROOF SNOW LOAD (Pf)	PER CANOPY MANUF
6. LOAD COMBINATIONS WITH SNOW LOAD SHALL ALSO INCLUDE LOADS FROM HIGH-LOW ROOF DRIFTING FROM MAIN BUILDING ROOF, PER CODE.	
3. LATERAL LOADS	
A. WIND LOADS	
1. BASIC WIND SPEED (3-SECOND GUST)	
- ULTIMATE DESIGN WIND SPEED	120 MPH
- BASIC DESIGN WIND SPEED (SERVICE)	93 MPH
2. WIND EXPOSURE CATEGORY	PER CANOPY MANUF
3. RISK CATEGORY	PER CANOPY MANUF
B. SEISMIC LOADS	
1. 5% DAMPED MAPPED ACCELERATION PARAMETER (Ss)	0.206
2. 1-SEC PERIOD MAPPED ACCELERATION PARAMETER (S1)	0.093
3. 5% DAMPED SPECTRAL RESPONSE COEFF. (Sds)	0.220
4. 1-SEC PERIOD SPECTRAL RESPONSE COEFF. (Sd1)	0.149
5. SITE CLASS	D
6. RISK CATEGORY	PER CANOPY MANUF
7. IMPORTANCE FACTOR (I)	PER CANOPY MANUF
8. SEISMIC DESIGN CATEGORY	PER CANOPY MANUF
9. BASIC STRUCTURAL SEISMIC RESPONSE SYSTEM	PER CANOPY MANUF
10. ANALYSIS PROCEDURE	PER CANOPY MANUF
11. SEISMIC RESPONSE COEFFICIENT (Cs)	PER CANOPY MANUF
12. RESPONSE MODIFICATION FACTOR (R)	PER CANOPY MANUF
13. DESIGN BASE SHEAR (V)	PER CANOPY MANUF

OWNER SUPPLIED CANOPY GENERAL NOTES

1.0 GENERAL
- 1.1 CANOPY MFR SHALL DESIGN AND SUPPLY ALL CANOPY FRAMING AND SUBSEQUENT CONNECTIONS (INCLUDING BASEPLATES AND ANCHOR BOLTS) TO MEET THE CANOPY DESIGN LOAD CRITERIA SHOWN.
- 1.2 STRUCTURAL DESIGN OF THE CANOPY SHALL BE PERFORMED BY AN ENGINEER LICENSED IN THE PROJECT STATE.
- 1.3 PROFILES ARE SHOWN FOR GRAPHICAL PURPOSES ONLY AND NOT INTENDED TO SUGGEST CONFIGURATION OF PRIMARY MEMBERS.

2.0 FOUNDATIONS AND SUBGRADE
- 2.1 REFER TO GENERAL NOTES ON SHEET S0 FOR SUBGRADE GENERAL NOTES.
- 2.2 REFER TO GENERAL NOTES ON SHEET S0 FOR FOUNDATION GENERAL NOTES.

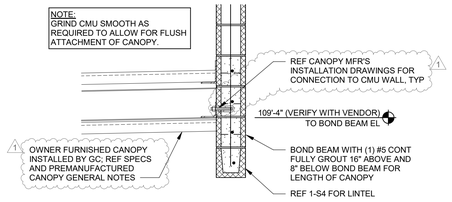
3.0 CONCRETE AND REINFORCING STEEL
- 3.1 REFER TO GENERAL NOTES ON SHEET S0 FOR CONCRETE AND REINFORCING STEEL GENERAL NOTES.

4.0 CANOPY REACTIONS
- 4.1 CANOPY MFR SHALL PROVIDE ALL CALCULATIONS AND SHOP DRAWINGS TO THE BUILDING ENGINEER FOR REVIEW PRIOR TO THE START OF CONSTRUCTION.
- 4.2 CANOPY MFR SHALL PROVIDE ALL FOUNDATION REACTIONS TO THE BUILDING ENGINEER FOR REVIEW AND VERIFICATION OF FOUNDATION DESIGN (FOUNDATION DESIGN BY BUILDING ENGINEER). WIND AND SEISMIC REACTIONS SHALL BE PROVIDED AT ASD SERVICE LEVEL. CANOPY MFR SHALL PROVIDE A REACTION TABLE ON THE SHOP DRAWINGS LISTING THE VERTICAL LOADS, SHEAR LOADS, AND MOMENTS FOR EACH OF THE FOLLOWING LOAD CATEGORIES: DEAD, LIVE, SNOW, WIND, AND SEISMIC. DO NOT PROVIDE COMBINED LOAD REACTIONS.
- 4.3 CANOPY MFR SHALL PROVIDE THE MINIMUM AND MAXIMUM REACTIONS NOTED ABOVE FOR THE WIND AND SEISMIC LOAD CATEGORIES.
- 4.4 SNOW REACTIONS SHALL INCLUDE UNBALANCED SNOW LOADS AND/OR HIGH-LOW ROOF DRIFTING FROM THE MAIN BUILDING WHEN APPLICABLE.
- 4.5 CANOPY MFR IS RESPONSIBLE FOR DESIGNING AND SUPPLYING ALL CONNECTIONS TO BUILDING WALL. CANOPY MFR SHALL PROVIDE ALL CONNECTION REACTIONS TO THE BUILDING ENGINEER FOR REVIEW AND VERIFICATION OF WALL DESIGN (WALL DESIGN BY BUILDING ENGINEER). WIND AND SEISMIC REACTIONS SHALL BE PROVIDED AT ASD SERVICE LEVEL. CANOPY MFR SHALL PROVIDE A REACTION TABLE ON THE SHOP DRAWINGS LISTING THE VERTICAL LOADS, SHEAR LOADS, AND MOMENTS FOR EACH OF THE FOLLOWING LOAD CATEGORIES: DEAD, LIVE, SNOW, WIND, AND SEISMIC. DO NOT PROVIDE COMBINED LOAD REACTIONS.

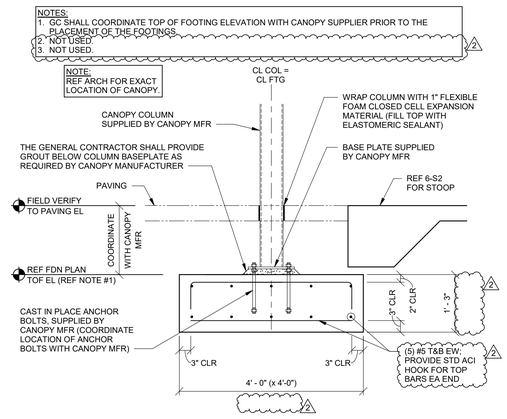
5.0 CONSTRUCTION AND SAFETY
- 5.1 THE GENERAL CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR THE ENTIRE CANOPY STRUCTURE UNTIL ALL STRUCTURE AND CONNECTIONS ARE INSTALLED AND FUNCTIONING AS THE DESIGNED UNIT.
- 5.2 THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION SELECTED.
- 5.3 THE GENERAL CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE IN AND AROUND THE CANOPY INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY.

OWNER SUPPLIED CANOPY SPECIAL INSPECTIONS

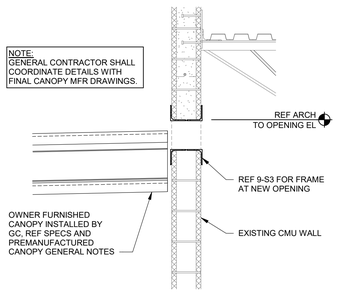
1. SPECIAL INSPECTION
- A. SPECIAL INSPECTIONS ARE REQUIRED FOR THE PICKUP CANOPY TO BE PERFORMED BY THE OWNER'S CONSTRUCTION TESTING LABORATORY (CTL). REFER TO APPENDIX B OF THE PROJECT SPECIFICATIONS FOR THE REQUIREMENTS OF SPECIAL INSPECTIONS.
- B. ADDITIONAL INSPECTIONS ARE REQUIRED FOR THE PICKUP CANOPY FOUNDATIONS AND THE CMU WALL. THESE SHALL INCLUDE THE STRUCTURAL CONCRETE (03310) AND MASONRY (04200) INSPECTIONS AND FREQUECIES LISTED IN APPENDIX B OF THE PROJECT SPECIFICATIONS.
- C. REFER TO APPENDIX B OF THE PROJECT SPECIFICATIONS FOR INSPECTOR QUALIFICATIONS AND RESPONSIBILITIES.



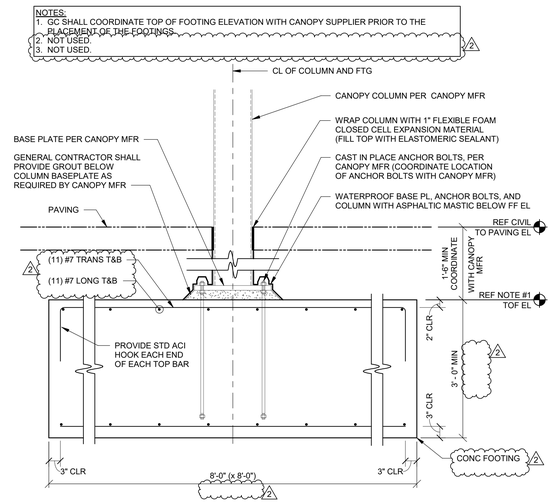
6 CANOPY AT CMU WALL
3/4" = 1'-0"



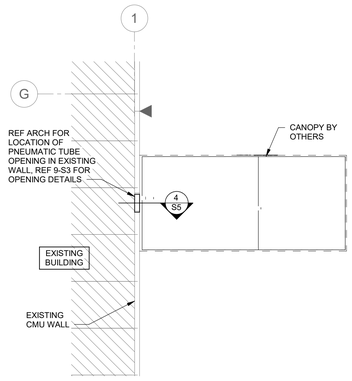
5 ASSOCIATE CANOPY COLUMN FOOTING
3/4" = 1'-0"



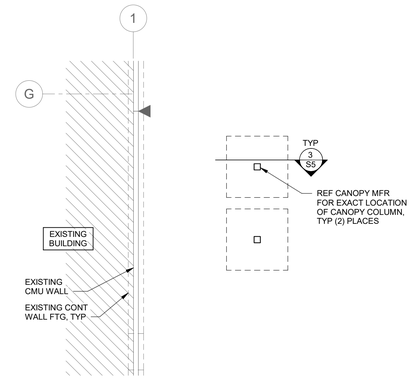
4 PHARMACY CANOPY AT CMU WALL
3/4" = 1'-0"



3 PHARMACY CANOPY FOOTING SECTION
3/4" = 1'-0"



2 PHARMACY CANOPY FRAMING PLAN
1/8" = 1'-0"



1 PHARMACY CANOPY FOUNDATION PLAN
1/8" = 1'-0"

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JOB NUMBER: 194-23-047 PROTO: 182

ISSUE BLOCK

1	PR #3	08/12/25
2	CCD #1	12/04/25

CHECKED BY:	JSH
DRAWN BY:	DTR
PROTO CYCLE:	07/26/24
DOCUMENT DATE:	01/08/25

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 051941 BRIAN W. MAROVICH

12/2/25

VENDOR CANOPY PLANS AND DETAILS

SHEET: S5

13052025 11:12:19 AM

OWNER FURNISHED SPRINKLERS AND ACCESSORIES

SYM	SIZE	K FACTOR	FINISH	MFR	MAKE	S.I.N.	TEMP	STYLE	QTY	SPARE QTY	ESCH STYLE	ESCH FINISH	ESCH QTY
◉	3/4"	11.2	BRASS	TYCO	ELO-231	TY5131	155	UPRIGHT	45	6	---	---	---

SUBSTITUTIONS WILL NOT BE PERMITTED. REFERENCE SPECIFICATIONS APPENDIX B FOR ADDITIONAL INFORMATION.

WHERE SPRINKLERS ARE INSTALLED BELOW OBSTRUCTIONS (REFRIGERATION PIPING, RTUs, CABLE TRAYS, ETC.) THESE SPRINKLERS SHALL BE REPLACED WITH SPRINKLERS MATCHING THE NEW SPRINKLERS BEING INSTALLED AT THE ROOF DECK LEVEL.

THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE TO OWNER FURNISHED SPRINKLERS DURING INSTALLATION. TO REPLACE DAMAGED SPRINKLERS CONTACT HAINES, JONES, CADBURY 1-800-459-7099.

THE OWNER WILL FURNISH ADDITIONAL SPRINKLERS FOR THE SPARES CABINET. INSTALL SPARE SPRINKLER QUANTITY INDICATED ON CONTRACT DOCUMENTS PRIOR TO FIRE PROTECTION CONSULTANT SITE OBSERVATION.

CONTRACTOR PROVIDED SPRINKLER SCHEDULE

SYM	SIZE	MFR	MAKE	S.I.N.	FINISH	STYLE	TEMP	K FACTOR	QTY
◉	MATCH EXISTING	TYCO	MATCH EXISTING	MATCH EXISTING	MATCH EXISTING	PENDENT	MATCH EXISTING	MATCH EXISTING	4
◉	1/2"	TYCO	TY-FRB	TY3231	WHITE	RECESSED STYLE 10	155	5.6	2
◉	1"	TYCO	DS-2	TYS255	CHROME	FLUSH DRY PENDENT	286	11.2	12
◉	VARIES	VARIES	VARIES	VARIES	VARIES	DEMO PENDENT	VARIES	VARIES	2
◉	VARIES	VARIES	VARIES	VARIES	VARIES	EXISTING PENDENT	VARIES	VARIES	38

WHERE SPRINKLERS ARE CALLED OUT TO "MATCH EXISTING", THE CONTRACTOR SHALL PROVIDE SPRINKLERS MANUFACTURED BY TYCO, WHICH ARE EQUIVALENT TO THE EXISTING TO REMAIN SPRINKLERS. SUBSTITUTIONS WILL NOT BE PERMITTED. DEMO SPRINKLER QTYS ARE APPROXIMATE. DEMO QTYS DO NOT INCLUDE COUNTS FOR SPRINKLERS SHOWN AS BEING REPLACED.

EXISTING SPRINKLERS QUANTITIES MAY NOT BE REPRESENTATIVE OF TOTAL EXISTING SPRINKLER COUNTS OR MAY REPRESENT EXISTING SPRINKLERS NOT SHOWN ON CONTRACT DOCUMENTS.

SYMBOL LEGEND

SYMBOL	DESCRIPTION
HYD	HYDRAULIC REFERENCE NODE POINT
	CAP
	PLUG
	RISER NIPPLE/DROP NIPPLE
	SPRINKLER RISER | DRY RISER
	HOSE VALVE
	INSPECTOR'S TEST/AUXILIARY DRAIN
	FIRE DEPARTMENT CONNECTION
	NEW CONNECTION
	NEW SPRINKLER PIPE
	EXISTING SPRINKLER PIPE
	DEMOLISHED SPRINKLER PIPE

PROVIDE ADDITIONAL SPRINKLERS AS REQUIRED PER NFPA 13 IN EXISTING SPRINKLER CABINET FOR ANY NEW SPRINKLERS INSTALLED.

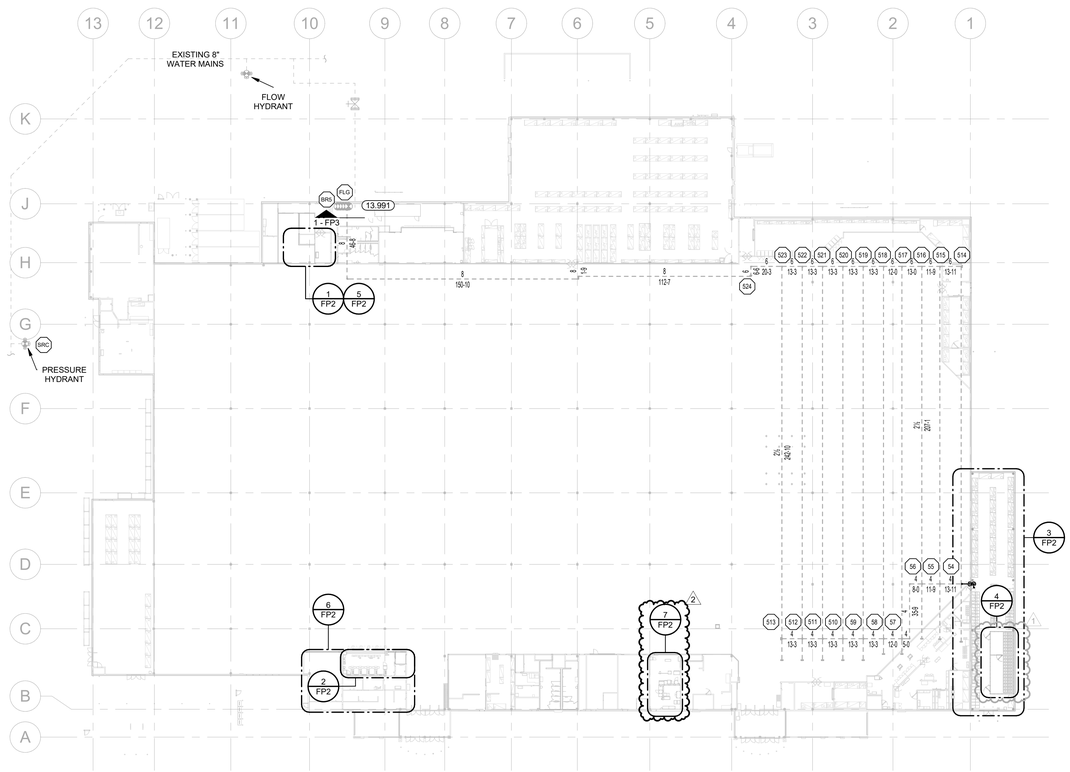
PIPE TABLE (WET)

PRODUCT	NOMINAL PIPE SIZE	INSIDE DIAMETER
DYNA-FLOW	2"	2.203
DYNA-FLOW	2 1/2"	2.703
DYNA-FLOW	3"	3.314
DYNA-FLOW	4"	4.310
DYNA-THREAD	1"	1.080
DYNA-THREAD	1 1/4"	1.408
DYNA-THREAD	1 1/2"	1.639
DYNA-THREAD	2"	2.104
SCHEDULE 10	1 1/4"	1.442
SCHEDULE 10	1 1/2"	1.682
SCHEDULE 10	2"	2.157
SCHEDULE 10	2 1/2"	2.635
SCHEDULE 10	3"	3.260
SCHEDULE 10	4"	4.260
SCHEDULE 10	6"	6.357
SCHEDULE 10	8"	8.249
SCHEDULE 10	10"	10.370
SCHEDULE 40	1"	1.049
SCHEDULE 40	1 1/4"	1.380
SCHEDULE 40	1 1/2"	1.610
SCHEDULE 40	2"	2.067

PIPE TABLE (UNDERGROUND)

PRODUCT	NOMINAL PIPE SIZE	INSIDE DIAMETER
DI	6"	6.16
DI	8"	8.27
DI	10"	10.28
DI	12"	12.34
DI	16"	16.41
DI	18"	18.49
DI	20"	20.57
DI	24"	24.73
PVC	6"	6.09
PVC	8"	7.98
PVC	10"	9.79
PVC	12"	11.65
PVC	16"	15.53
PVC	18"	17.20
PVC	20"	19.06
PVC	24"	22.76

PIPE SIZES SHOWN ARE FOR HYDRAULIC CALCULATIONS PURPOSES ONLY.
REFER TO SPECIFICATIONS FOR ALLOWABLE SUBSTITUTIONS.



1 FIRE SPRINKLER SITE PLAN
1" = 40'-0"

UNDERGROUND PIPING SHOWN FOR HYDRAULIC CALCULATION PURPOSES ONLY.

GENERAL UNDERGROUND NOTES

1. ALL UNDERGROUND IS SHOWN FOR HYDRAULIC REFERENCE ONLY.
2. SEE CIVIL DRAWINGS FOR EXACT LOCATIONS IF AVAILABLE.
3. NO NEW WORK UNLESS OTHERWISE NOTED.

AIR RELEASE VENT

ONE AIR VENT MUST BE INSTALLED ON ALL WET TYPE FIRE PROTECTION SYSTEMS INCLUDING SYSTEMS NOT AFFECTED BY THE REMODEL SCOPE OF WORK. EACH AIR VENT IS TO BE INSTALLED AT THE HIGHEST POINT OF THE SYSTEM AND PREFERABLY ON THE MAINS. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING THE HIGHEST POINT OF EACH SYSTEM AND INSTALLING THE AIR VENT IN AN ACCESSIBLE LOCATION. IF THE AIR VENT IS TO BE INSTALLED ABOVE AN EXISTING CEILING THE CONTRACTOR MUST PROVIDE SIGNAGE, ONLY IF AIR VENT CANNOT BE LOCATED IN AN ACCESSIBLE LOCATION, PER NFPA 13. REF 8-FP3

PLACARD INFORMATION

THE FOLLOWING INFORMATION MUST BE SHOWN ON THE PLACARDS FOR EACH UL PERFORMANCE BASE DESIGNS. REFERENCE CONTRACT DOCUMENTS FOR ADDITIONAL INFORMATION. PLACARDS THAT ARE INSTALLED WITH INFORMATION WRITTEN WITH PERMANENT MARKER WILL NOT BE ACCEPTED.

SYSTEM #: X AREA: X
SPRINKLERS CALCULATED: X
MIN DISCHARGE PRESSURE: X
COMBINED HOSE ALLOWANCE: X
SYSTEM FLOW DEMAND AT (SRC/PO): X
SYSTEM PRESSURE DEMAND AT (SRC/PO): X
SYSTEM SAFETY FACTOR: X
INSTALLING CONTRACTOR: X
UL TEST SERIES NUMBER: X
UL PERFORMANCE BASE DESIGN
PROJECT: 4789705078, NC27954

WATER SUPPLY INFORMATION

STATIC: 130 PSI
RESIDUAL: 92 PSI AT 2556 GPM

INFORMATION DERIVED FROM A FLOW TEST PERFORMED BY HENDERSON ENGINEERS DURING A SITE VISIT ON 05/22/2024. ADDITIONAL SAFETY FACTORS ARE NOT INCLUDED.

SEISMIC REQUIREMENTS

THE SPRINKLER CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS PER NFPA 13 "PROTECTION OF PIPING AGAINST DAMAGE WHERE SUBJECT TO EARTHQUAKES". THE SPRINKLER CONTRACTOR MUST ALSO TAKE INTO ACCOUNT THE LIMITATIONS OF THE STRUCTURAL ELEMENTS PRIOR TO SIZING, FASTENING AND/OR LOCATING SEISMIC ASSEMBLIES, RESTRAINTS, ETC. ON THEIR PLANS. STRUCTURAL REQUIREMENTS AND LIMITATIONS MAY BE MORE STRINGENT THAN NFPA. REF 3-FP3 AND 5-FP3.

CONTACT INFORMATION

DOCUMENTS INCLUDE JURISDICTIONAL REQUIREMENTS PROVIDED BY THE FOLLOWING CONTACTS:

FIRE SPRINKLER REVIEWING AUTHORITY:
LESLIE JACKSON, CHIEF DEPUTY FIRE MARSHAL
(910) 893-7580

APPLICABLE CODES

NFPA STANDARDS	EDITION
NFPA 13	2022

UL LLC TECHNICAL REPORT: 4789705078, NC27954

REFER TO SHEET C1 FOR APPLICABLE CODES

GENERAL PIPING AND DEMOLITION NOTES

1. UNLESS NOTED OTHERWISE, DISCONNECT AND REMOVE ALL EXISTING FIRE PROTECTION COMPONENTS NOT INTENDED TO BE REUSED.
2. REMOVE ALL DEMOLITION MATERIALS AND DEBRIS TO AN APPROVED DUMPING SITE AND CLEAN ALL FIRE PROTECTION WORK PRIOR TO PROJECT COMPLETION.
3. PERFORM ALL WORK ACCORDING TO THE PROJECT PHASING SCHEDULE INFORMATION FOR THIS PROJECT. PROVIDE ALL NECESSARY FIRE PROTECTION WORK, TEMPORARY AND/OR OTHERWISE, AND USE WHATEVER MEANS NECESSARY, TO CONFORM TO THE REQUIRED CONSTRUCTION PHASING OF THE PROJECT.
4. CONTRACTOR IS RESPONSIBLE FOR REPAIRING OR REPLACING ITEMS DAMAGED DURING DEMOLITION AND CONSTRUCTION.
5. CONTRACTOR SHALL PATCH ALL HOLES TO MATCH ADJACENT SURFACES LEFT UNUSED AFTER EXISTING SPRINKLER PIPING OR EQUIPMENT IS REMOVED AND VACATED FROM THESE HOLES.
6. SPRINKLER SYSTEMS NOT ASSOCIATED WITH THE DEMOLITION SHALL BE LEFT IN SERVICE.
7. ALL WORK SHALL BE PERFORMED SO AS TO NOT INTERRUPT SERVICE. THE CONTRACTOR SHALL PROPERLY NOTIFY THE LANDLORD, THE LESSOR AND ADJACENT TENANTS A MINIMUM OF 48 HOURS IN ADVANCE BEFORE PROCEEDING WITH THIS WORK. ALL WORK SHALL BE SCHEDULED IN ADVANCE.
8. ALL SYSTEMS TO BE LEFT IN SERVICE PRIOR TO THE END OF EACH WORKDAY.
9. ONLY THE PORTIONS OF THE BUILDING AFFECTED BY THE SCOPE OF THE PROJECT HAVE BEEN SHOWN. INFORMATION SHOWN AS EXISTING TO REMAIN IS QUESTIONS MODIFIED AS A PART OF THIS PROJECT.
10. SPRINKLER CONTRACTOR TO SUBMIT AND RECEIVE APPROVAL OF FULL SHOP DRAWINGS TO THE ENGINEER OF RECORD PRIOR TO FABRICATION AND INSTALLATION.
11. CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING FIRE DEPARTMENT ACCESS ROADS THROUGHOUT THE PROJECT.

SYSTEM IMPAIRMENT REQUIREMENTS

1. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION, VERIFICATION AND PROVISION OF A FIRE WATCH SUBJECT TO THE REQUIREMENTS OF THE LOCAL JURISDICTION. ALL FIRE WATCH COSTS INCURRED AS A RESULT OF THIS PROJECT SHALL BE INCLUDED IN THE PROJECT BID AS A SEPARATE LINE ITEM. COORDINATION AND VERIFICATION AS TO WHEN A FIRE WATCH MAY BE NEEDED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. THE CONTRACTOR SHALL REQUEST THE STORE MANAGER TO NOTIFY ALARM CENTRAL OF THE SYSTEM(S) BEING SHUT OFF FOR WORK AND THE DURATION OF THE SHUT OFF.
3. THE CONTRACTOR SHALL CALL DIRECT TO THE FIRE DEPARTMENT AND ADVISE THAT THE FIRE ALARM SYSTEM IS IN TEST.
4. AT THE END OF EACH NIGHTS WORK, THE CONTRACTOR SHALL CALL DIRECT TO THE FIRE DEPARTMENT AND STORE MANAGER TO ADVISE WORK IS COMPLETE.
5. A FIRE WATCH IN ACCORDANCE WITH THE ADOPTED FIRE PROTECTION CODE BY THE AUTHORITY HAVING JURISDICTION SHALL BE REQUIRED WHEN ANY FIRE PROTECTION SYSTEM IS IMPAIRED OR OTHERWISE DOWN FOR ALTERATION. ADDITIONAL SPECIFIC REQUIREMENTS MAY BE NECESSARY DEPENDING UPON THE AUTHORITY HAVING JURISDICTION. THE CONTRACTOR IS RESPONSIBLE FOR ASSUMING THE ROLE OF IMPAIRMENT COORDINATOR TO DEVELOP AND MAINTAIN THE FIRE WATCH PLAN. THE PLAN SHALL ENSURE THAT A TRAINED INDIVIDUAL(S), WHOSE SOLE RESPONSIBILITY IS TO PERFORM CONSTANT PATROL AND WATCH FOR THE OCCURRENCE OF FIRE IS ON SITE WHILE ANY SYSTEM IS IMPAIRED. THE FIRE WATCH INDIVIDUAL SHALL HAVE AN APPROVED MEANS OF COMMUNICATION TO REPORT A FIRE TO THE FIRE DEPARTMENT AND/OR THE DESIGNATED CENTRAL STATION, AND DOCUMENT EVIDENCE OF THEIR PATROLS IN WRITING.
6. ONLY (1) ONE SYSTEM IS PERMITTED TO BE SHUT DOWN AT ONE TIME.
7. ANY FIRE DEPARTMENT FEES FOR FAILURE TO FOLLOW PROCEDURES WILL BE AT THE CONTRACTORS EXPENSE.
8. ALL SYSTEMS TO BE LEFT IN SERVICE PRIOR TO THE END OF EACH WORKDAY.
9. THE CONTRACTOR SHALL COORDINATE WITH THE STORE MANAGER ON THE AREA TO BE WORKED ON AT LEAST 24 HOURS IN ADVANCE.
10. REQUIRED MEANS OF EGRESS SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION, DEMOLITION, REMODELING OR ALTERATIONS AND ADDITIONS TO THE WALMART. ALL EXITS SHALL NOT BE BLOCKED, REDUCED OR OTHERWISE MADE INOPERABLE WHICH ALSO INCLUDES THE EXIT ACCESS, THE EXIT AND EXIT DISCHARGE TO THE PUBLIC WAY. TEMPORARY MEANS OF EGRESS ARE ALLOWED.

GENERAL NOTES

1. THE DESIGN SHOWN ON THESE CONTRACT DOCUMENTS HAS BEEN PREPARED *FOR APPROVAL BY THE AUTHORITY HAVING JURISDICTION AND* TO PROVIDE GUIDANCE FOR BIDDING. THE CONTRACTOR SHALL SUBMIT COMPLETE FIRE SPRINKLER SHOP DRAWINGS AS REQUIRED BY SPECIFICATION SECTION 01330. CONTRACTOR SHALL BASE SHOP DRAWING DESIGN ON THE FIRE PROTECTION DRAWINGS AND SPECIFICATIONS. SPRINKLER SHOP DRAWINGS SHALL INCLUDE ALL NECESSARY ELEVATIONS, HANGER LOCATIONS, PIPE LENGTHS, DIMENSIONS, FABRICATION METHODS/NOTES, MATERIAL DATA, AND ANY OTHER INFORMATION NECESSARY TO CLARIFY THE INTENT OF INSTALLATION. CONTRACTOR SHALL PROVIDE PIPE SIZES, SPRINKLER SPACING, AND ALL SYSTEM CONFIGURATIONS AS SHOWN. ANY ALTERNATES IN DESIGN OF THE SYSTEM OR IN MATERIALS OR EQUIPMENT USED MUST BE APPROVED IN WRITING VIA THE REQUEST FOR INFORMATION PROCESS BY THE FIRE PROTECTION ENGINEER OF RECORD PRIOR TO ANY BIDDING, FABRICATION, OR INSTALLATION.
2. CONTRACTOR SHALL COORDINATE LOCATIONS OF FIRE PROTECTION COMPONENTS INCLUDING PIPING, ALARMS, DRAINS, TEST POINTS, ETC., WITH ALL ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS. OBSTRUCTIONS TO SPRINKLER DISCHARGE MUST BE CONSIDERED DURING SHOP DRAWING PRODUCTION AND INSTALLATION. EXTRA SPRINKLERS MAY BE REQUIRED AT NO ADDITIONAL COST TO THE OWNER. REFER TO SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
3. SUBMIT A REQUEST FOR INFORMATION (RFI), FOR QUESTIONS RELATED TO THE FIRE PROTECTION DOCUMENTS.
4. ROUTE ALL SPRINKLER MAINS ABOVE THE BOTTOM CHORD OF THE BAR JOISTS.
5. NEUTRALIZATION/DEMISING WALLS ARE SHOWN ON THE ARCHITECTURAL DRAWINGS. REFER TO THE MECHANICAL DRAWINGS FOR NEUTRALIZATION WALL PENETRATIONS.
6. SPRINKLER SYSTEMS ARE MONITORED BY AN OFF-SITE CENTRAL STATION INCLUDING TAMPER SWITCHES ON ALL CONTROL VALVES AND FLOW SWITCHES.
7. IF APPLICABLE, THE CONTRACTOR SHALL ASSUME THAT ANY CURTAIN BOARDS OR DRAFT CURTAINS WILL BE INSTALLED PRIOR TO THE SPRINKLER PIPING. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER PENETRATIONS OF THE CURTAIN BOARDS OR DRAFT CURTAINS AND SEALING WITH APPROVED FIRE CAULKING.
8. PENETRATIONS OF RATED WALLS OR ASSEMBLIES SHALL BE "FIRE CAULKED" WITH APPROVED CAULKING PER METHODS REQUIRED BY THE AUTHORITY HAVING JURSDICTION, AND PROJECT SPECIFICATIONS.
9. THE FIRE PROTECTION ENGINEER OF RECORD WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, NOR SHALL THEY BE REQUIRED TO SUPERVISE THE CONDUCT OF THE WORK, THE CONSTRUCTION PROCEDURES AS SET FORTH BY THE GENERAL CONTRACTOR, SUB-CONTRACTORS, THEIR RESPECTIVE EMPLOYEES, OR ANY OTHER PERSON AT THE JOBSITE OTHER THAN THE ENGINEERING FIRM'S OWN EMPLOYEES.
10. SPRINKLER PROTECTION IS REQUIRED ABOVE THE ELECTRICAL ROOMS. NO MAIN PIPING SHALL PENETRATE OR PASS ABOVE THE ELECTRICAL ROOMS.
11. THE CONTRACTOR MUST REVIEW ALL CONSTRUCTION DOCUMENTS PRIOR TO BID. SHOULD MODIFICATION TO THESE PLANS BECOME NECESSARY TO PROPERLY COORDINATE THE SYSTEM WITH, OTHER TRADES, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN APPROVAL OF THESE CHANGES BY THE AHJ, AND THE FIRE PROTECTION ENGINEER OF RECORD. IN ADDITION TO OBTAINING THE NECESSARY APPROVALS, THE CONTRACTOR MUST MAKE NOTE OF ALL FIELD OR COORDINATION CHANGES ON THE INSTALLATION DRAWINGS. ONCE COMPLETE, THE CONTRACTOR SHALL SUPPLY ONE COPY OF AS-BUILT DRAWINGS TO THE FIRE PROTECTION ENGINEER OF RECORD FOR THEIR USE.
12. THE CONTRACTOR SHALL DIVERT ALL DRAIN AND INSPECTORS TEST CONNECTION DISCHARGE AWAY FROM FINISHED SURFACES AND PIPE TO APPROVED DRAIN LOCATIONS. THE CONTRACTOR WILL BE BACKCHARGED FOR ANY REPAIR, REPLACEMENT, OR CLEANING OF RUST STAINS ON PAVEMENT/CONCRETE DUE TO WATER DISCHARGE FROM SPRINKLER SYSTEM DRAIN DOWNS.
13. ALL HANGER CONNECTIONS SHALL BE MADE TO THE TOP CHORD OF STRUCTURAL JOIST UNLESS NOTED OTHERWISE. USE OF SELF TAPPING AND POWDER DRIVEN THREADED ROD ANCHORS INTO ROOF DECK OR STRUCTURE IS PROHIBITED UNLESS OTHERWISE NOTED.

SHEET INDEX

FP1	FIRE SPRINKLER PLAN
FP2	ENLARGED FIRE SPRINKLER PLAN
FP3	FIRE PROTECTION DETAILS

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELF WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

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1	ADD#2	09/10/25
2	CCD#1	12/04/25

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PROTO CYCLE:	07/26/24
DOCUMENT DATE:	01/08/25

NORTH CAROLINA PROFESSIONAL SEAL 044131 ENGINEER CHRISTOPHER J. CULP

12/4/2025

0 4" 8" 12" 16"
SCALE: 3/32"=1'-0"
UNLESS OTHERWISE NOTED

FIRE SPRINKLER PLAN

SHEET: FP1

CHRISTOPHER J. CULP

PROTECTION CRITERIA LEGEND

OCCUPANCY CLASSIFICATION	DENSITY/AREA (GPM/SQ FT / SQ FT) DISCHARGE PRESSURE (# OPERATING SPRINKLERS - DESIGN AREA)	HOSE ALLOWANCE (GPM)	MAXIMUM SPRINKLER SPACING (SQ FT)	DESIGN BASIS
PICKUP STOCKROOM - GM/GR (OPTION 1)	30 PSI (2 AS-2S/1L) 15 PSI (12 AS-4S/3L)	250	100	CLASS I-IV & CARTONED GROUP A ON SHELF TO 10'-0", EXPOSED GROUP A PLASTIC TO 6'-0", 25'-0" CEILING HEIGHT, RACK TO RACK 6'-0" MINIMUM AISLES, GONDOLA TO GONDOLA 5'-0" MINIMUM AISLES; LIL LLC TECHNICAL REPORT PROJECT 4789705078, NC27954 - TABLE 3 SUMMARY OF TESTS, TEST SRR W/GONDOLAS 12022002 & 12032002
PICKUP COOLER/FREEZER (EXTRA HAZARD GROUP II)	0.40/2000	500	100	CLASS I-IV TO 12'-0"; NFPA 13: TABLE 4.3.1.7.1.1, TABLE 19.2.3.1.1, SECTION 19.2.3.2.7, SECTION 28.2.4.2.5 (OWNER ELECTED DENSITY)
MOTHER'S ROOM/HEALTH SERVICES/ DUNKIN DONUTS (ORDINARY HAZARD GROUP II) 2 2	0.20/1500	250	130	CLASS I-IV TO 5'-0"; NFPA 13: TABLE 4.3.1.7.1.1 & TABLE 19.2.3.1.1
VISION CENTER/TRAINING	EXISTING	EXISTING	130	EXISTING PROTECTION CRITERIA

RC = RETAIL CEILING/RNC = RETAIL NO CEILING
SL = STORAGE LOW/SH = STORAGE HIGH
REFERENCE SPRINKLER PLANS AND SPRINKLER SYMBOL LEGEND FOR SPRINKLERS NECESSARY TO MEET THE DESIGN REQUIREMENTS

SRR = SINGLE ROW RACK
DRR = DOUBLE ROW RACK
MRR = MULTIPLE ROW RACK

KEYNOTES

13.901 COORDINATE SPRINKLER PROTECTION PER REMOVAL, RELOCATION AND/OR ADDITION OF WALLS AND/OR CEILINGS. WHERE NECESSARY, REMOVE EXISTING SPRINKLER(S) AND ASSOCIATED PIPING. CAP OUTLETS NOT INTENDED FOR REUSE. WHERE NEW SPRINKLER(S) ARE REQUIRED WITHIN THE SAME COMPARTMENT AS EXISTING TO REMAIN SPRINKLERS, NEW SPRINKLER(S) SHALL MATCH EXISTING SPRINKLER TYPE, K-FACTOR, TEMPERATURE RATING AND FINISH. WHERE APPLICABLE, ALIGN NEW SPRINKLERS WITH EXISTING TO REMAIN SPRINKLERS, AND COORDINATE WITH NEW AND EXISTING EQUIPMENT AND WALLS TO MEET NFPA 13 SPACING REQUIREMENTS. NOT MORE THAN ONE SPRINKLER SHALL BE SUPPLIED BY A 1" PIPE OR CONNECTION.

13.910 REMOVE EXISTING PENDENT SPRINKLER AND ASSOCIATED PIPING. CAP REMAINING OUTLETS NOT INTENDED FOR REUSE.

13.920 EXISTING SPRINKLERS AND BRANCHLINES TO REMAIN.

13.944 PROVIDE LOW POINT AUXILIARY DRAIN IN ACCESSIBLE LOCATION.

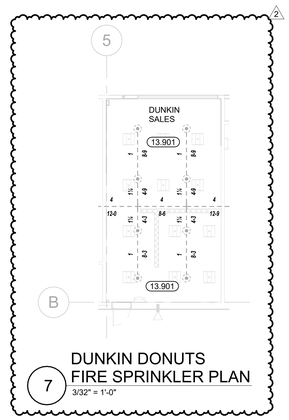
13.950 PROVIDE NEW MAIN(S). LOCATE MAIN ABOVE BOTTOM CHORD OF THE JOIST(S). FIELD VERIFY AND COORDINATE EXACT ROUTE THROUGH NEW AND EXISTING CONSTRUCTION/EQUIPMENT. MAINS 4" AND LARGER SHALL BE INSTALLED PER SPRINKLER PIPE SUPPORT DETAIL.

13.951 PROVIDE NEW BRANCHLINE(S). FIELD VERIFY AND COORDINATE EXACT ROUTE THROUGH NEW AND EXISTING CONSTRUCTION/EQUIPMENT.

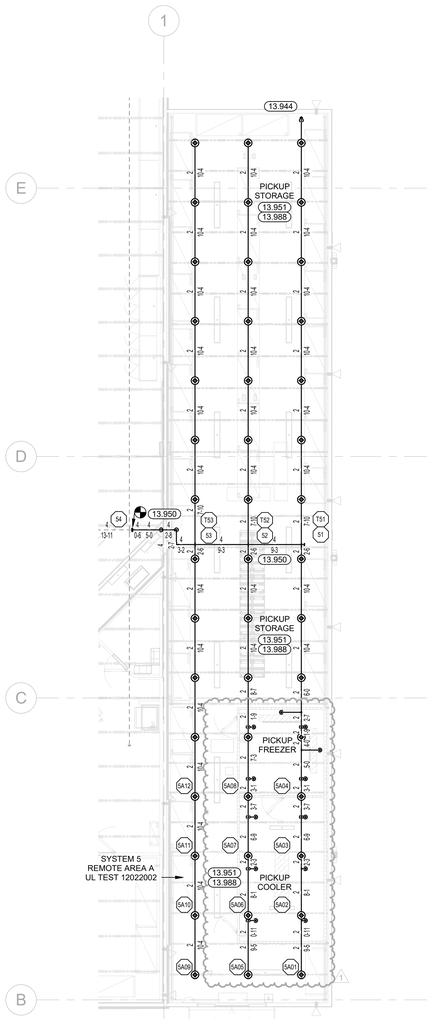
13.970 PROVIDE PENDENT SPRINKLERS. REFERENCE SPRINKLER SYMBOL LEGEND FOR SPECIFIC SPRINKLER TO BE INSTALLED. NOT MORE THAN ONE SPRINKLER SHALL BE SUPPLIED BY A 1" PIPE OR CONNECTION. EXISTING UPRIGHT SPRINKLER PROTECTION, WHERE PROVIDED AT THE CEILING/ROOF DECK LEVEL, TO REMAIN UNLESS NOTED OTHERWISE.

13.974 PROVIDE DRY PENDENT SPRINKLERS. REFERENCE SPRINKLER SYMBOL LEGEND FOR SPECIFIC SPRINKLER TO BE INSTALLED. COORDINATE WITH LOCATION OF LIGHTS AND EVAPORATOR UNITS. NOT MORE THAN ONE SPRINKLER SHALL BE SUPPLIED BY A 1" PIPE OR CONNECTION. ADDITIONAL SPRINKLERS MAY BE REQUIRED AT NO ADDITIONAL COST TO OWNER. REFERENCE FREEZER COOLER DRY PENDENT DETAIL & FREEZER SECTION DETAIL.

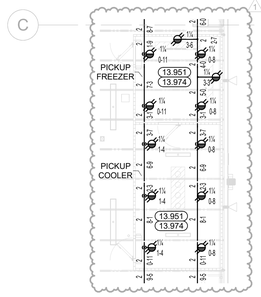
13.988 INSTALL NEW ½" UPRIGHT SPRINKLERS WITH TYCO TY5131 11.2K UPRIGHT SPRINKLERS. PROVIDE THE NECESSARY FITTING(S). REFERENCE OWNER FURNISHED SPRINKLER AND ACCESSORIES LEGEND FOR SPECIFIC SPRINKLER TO BE INSTALLED. WHERE SPRINKLERS ARE NEAR HEAT PRODUCING EQUIPMENT PROVIDE INTERMEDIATE AND HIGH-TEMPERATURE SPRINKLERS IN ACCORDANCE WITH NFPA 13.



7 DUNKIN DONUTS FIRE SPRINKLER PLAN
3/32" = 1'-0"

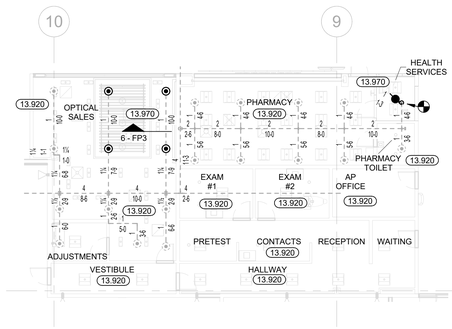


3 PICKUP STORAGE FIRE SPRINKLER PLAN
3/32" = 1'-0"

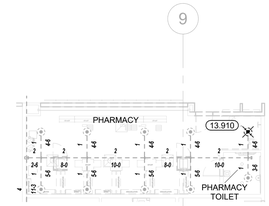


4 PICKUP COOLER/FREEZER FIRE SPRINKLER PLAN
3/32" = 1'-0"

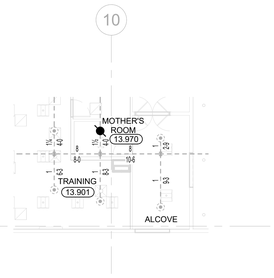
HYDRAULIC DESIGN	
SYSTEM # 5 REMOTE AREA # A	PICKUP STORAGE
SPRINKLERS CALCULATED	12 SPRINKLERS
SPRINKLER PRESSURE	15 PSI
COMBINED HOSE ALLOWANCE	250 GPM
SYSTEM FLOW DEMAND AT SRC	784 GPM
SYSTEM PRESSURE DEMAND AT SRC	62.5 PSI
SYSTEM SAFETY FACTOR	63.2 PSI
COMBINED HOSE ALLOWANCE INCLUDED IN FLOW DEMAND	



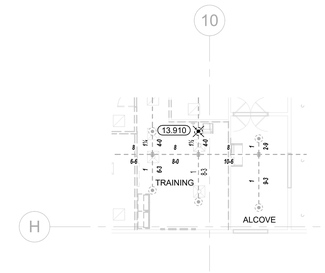
6 VISION CENTER/PHARMACY FIRE SPRINKLER PLAN
3/32" = 1'-0"



2 PHARMACY FIRE SPRINKLER DEMOLITION PLAN
3/32" = 1'-0"



5 BACK OF HOUSE FIRE SPRINKLER PLAN
3/32" = 1'-0"



1 BACK OF HOUSE FIRE SPRINKLER DEMOLITION PLAN
3/32" = 1'-0"

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NORTH CAROLINA PROFESSIONAL SEAL 040431 ENGINEER CHRISTOPHER J. CULP

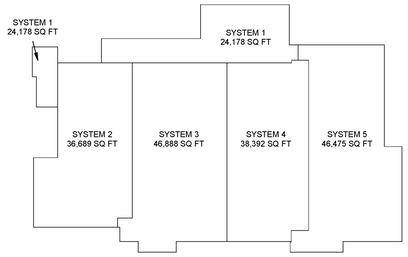
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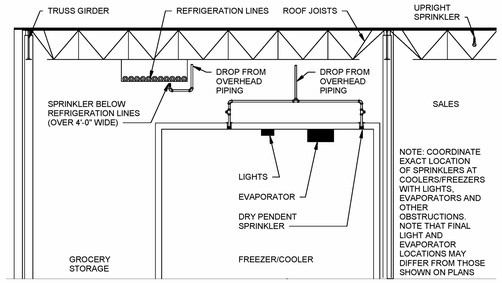
ENLARGED FIRE SPRINKLER PLAN

SHEET: FP2

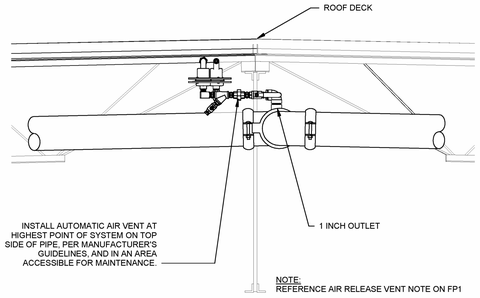
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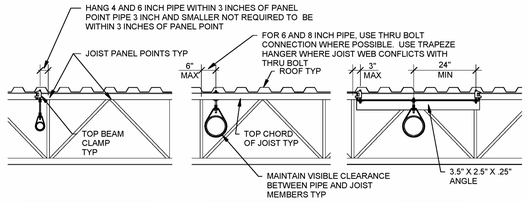
10 ZONE MAP
NTS



9 FREEZER SECTION
NTS

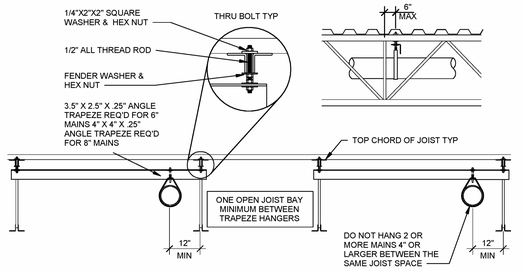


8 AIR RELEASE VENT
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MAXIMUM HANGER SPACING FOR PIPING PERPENDICULAR TO JOISTS		
BEAM CLAMP NOT TRAPEZED	THRU-BOLT NOT TRAPEZED	BEAM CLAMP TRAPEZED
4" PIPE EVERY 12'-0" EVERY OTHER JOIST 6" PIPE EVERY 6'-0" EVERY JOIST	4" PIPE EVERY 12'-0" EVERY OTHER JOIST 6" PIPE EVERY 12'-0" EVERY OTHER JOIST 8" PIPE EVERY 6'-0" EVERY JOIST	4" PIPE NOT NECESSARY 6" PIPE NOT NECESSARY 8" PIPE EVERY 6'-0" EVERY JOIST
8" PIPE NOT ALLOWED		

PIPE RUNNING PERPENDICULAR TO JOISTS



MAXIMUM HANGER SPACING FOR PIPES PARALLEL TO JOISTS		
4" PIPE EVERY 12'-0" NOT TRAPEZED BEAM CLAMP	6" PIPE EVERY 12'-0" TRAPEZED THRU BOLT	8" PIPE EVERY 12'-0" TRAPEZED THRU BOLT

PIPE RUNNING PARALLEL TO JOIST

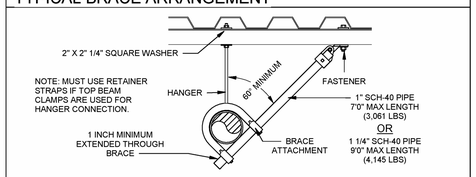
CONTRACTOR MAY SUBSTITUTE ANGLE IRON TRAPEZE MEMBER WITH PIPE MEMBER. SIZE PIPE MEMBER IN ACCORDANCE WITH NFPA-13 AND MAINTAIN 12 INCH MAXIMUM DEFLECTOR DISTANCE

UTILIZE THESE HANGING METHODS FOR ALL SPRINKLER PIPING. SPACE TRAPEZE HANGERS IN ACCORDANCE WITH SCHEDULE. LOCATE HANGERS WITHIN 3 INCHES OF JOIST PANEL POINTS U.N.O.

NOTE: DO NOT SUPPORT SPRINKLER PIPING FROM BOTTOM CHORD OF BAR JOISTS

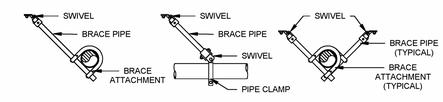
4 SPRINKLER PIPE SUPPORT
NTS

TYPICAL BRACE ARRANGEMENT



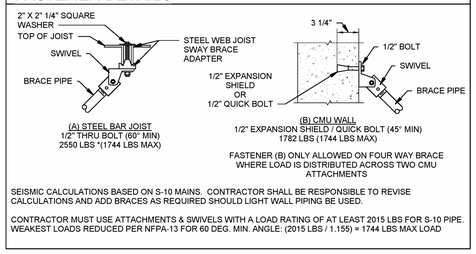
CONTRACTOR MUST USE ATTACHMENTS & SWIVELS WITH A LOAD RATING OF AT LEAST 2015 LBS FOR S-10 PIPE.

TYPICAL BRACE FITTINGS



CONTRACTOR MUST USE ATTACHMENTS & SWIVELS WITH A LOAD RATING OF AT LEAST 2015 LBS FOR S-10 PIPE.

FASTENER DETAILS

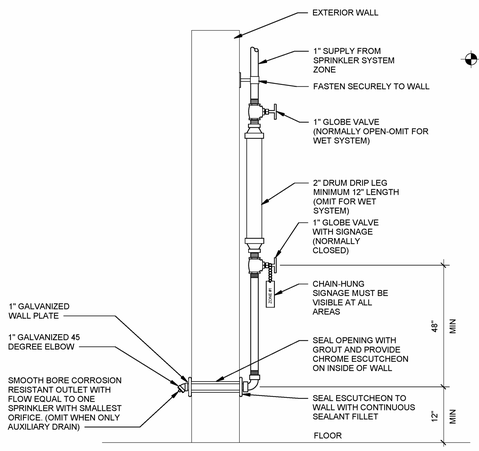


FASTENER (B) ONLY ALLOWED ON FOUR WAY BRACE WHERE LOAD IS DISTRIBUTED ACROSS TWO CMU ATTACHMENTS

SEISMIC CALCULATIONS BASED ON S-10 MAINS. CONTRACTOR SHALL BE RESPONSIBLE TO REVISE CALCULATIONS AND ADD BRACES AS REQUIRED SHOULD LIGHT WALL PIPING BE USED.

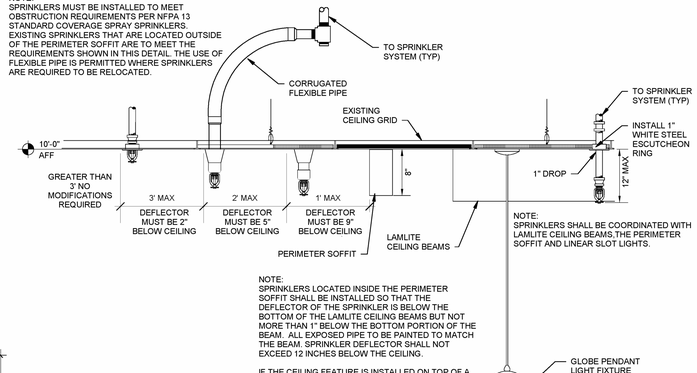
CONTRACTOR MUST USE ATTACHMENTS & SWIVELS WITH A LOAD RATING OF AT LEAST 2015 LBS FOR S-10 PIPE. WEAKEST LOADS REDUCED PER NFPA-13 FOR 60 DEG. MIN. ANGLE: (2015 LBS / 1.155) = 1744 LBS MAX LOAD

5 SEISMIC BRACING
NTS



7 DRUM DRIP/AUXILIARY DRAIN/INSPECTOR'S TEST
NTS

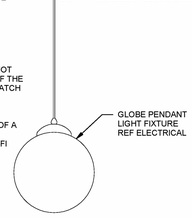
NOTE:
SPRINKLERS MUST BE INSTALLED TO MEET OBSTRUCTION REQUIREMENTS PER NFPA 13 STANDARD COVERAGE SPRAY SPRINKLERS. EXISTING SPRINKLERS THAT ARE LOCATED OUTSIDE OF THE PERIMETER SOFFIT ARE TO MEET THE REQUIREMENTS SHOWN IN THIS DETAIL. THE USE OF FLEXIBLE PIPE IS PERMITTED WHERE SPRINKLERS ARE REQUIRED TO BE RELOCATED.



NOTE:
SPRINKLERS SHALL BE COORDINATED WITH LAMLITE CEILING BEAMS,THE PERIMETER SOFFIT AND LINEAR SLOT LIGHTS.

NOTE:
SPRINKLERS LOCATED INSIDE THE PERIMETER SOFFIT SHALL BE INSTALLED SO THAT THE DEFLECTOR OF THE SPRINKLER IS BELOW THE BOTTOM OF THE LAMLITE CEILING BEAMS BUT NOT MORE THAN 1" BELOW THE BOTTOM PORTION OF THE BEAM. ALL EXPOSED PIPE TO BE PAINTED TO MATCH THE BEAM. SPRINKLER DEFLECTOR SHALL NOT EXCEED 12 INCHES BELOW THE CEILING.

IF THE CEILING FEATURE IS INSTALLED ON TOP OF A SPRINKLER OR IF THE RELOCATION AND ADJUSTMENT RULES CANNOT BE APPLIED, AN RFI MUST BE SUBMITTED FOR DIRECTION AND CLARIFICATION



ELEVATION VIEW A

OPTION A INSTALLATION PROCEDURE:
NOTE: ONLY USE THIS OPTION WHEN LAMLITE CEILING BEAMS ARE FLUSH WITH THE CEILING

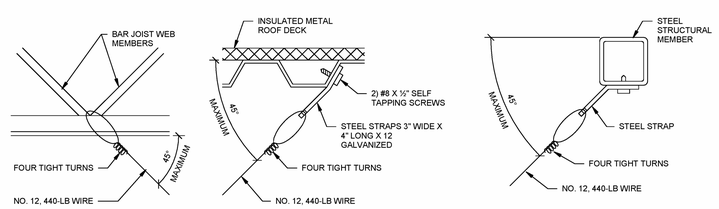
6 VISION CENTER SOFFIT/LAMLITE
NTS

OPTION "A" INSTALLATION PROCEDURE

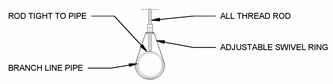
1. CORE DRILL 2 1/2" DIAMETER HOLE IN THE FREEZER/COOLER INSULATED CEILING PANEL. LOCATE HOLE AND REQUIRED SPRINKLER PROTECTION IN ACCORDANCE WITH NFPA 13 OBSTRUCTION CRITERIA (SSP TYPE SPRINKLERS). MAINTAIN 6" CLEARANCE FROM COOLER SEAMS.
2. INSTALL DRY PENDENT SPRINKLER PER MANUFACTURER'S INSTALLATION REQUIREMENTS.
3. COMPLETELY FILL ANNULAR CEILING OPENING BETWEEN THE ESCUTCHEON AND TOP OF CEILING PANEL WITH OPEN-CELL POLYETHYLENE FOAM BACKER ROD. EXPANDED FOAM IS NOT PERMITTED.
4. INJECT DOW CORNING 739 PLASTIC ADHESIVE SEALANT INTO AND AROUND THE TOP OF THE FREEZER/COOLER CEILING CORE OPENING IN ACCORDANCE WITH SEALANT MANUFACTURER'S INSTRUCTIONS.

OPTION "B" INSTALLATION PROCEDURE

1. CORE DRILL 2 1/2" DIAMETER HOLE IN THE FREEZER/COOLER INSULATED CEILING PANEL. LOCATE HOLE AND REQUIRED SPRINKLER PROTECTION IN ACCORDANCE WITH NFPA 13 OBSTRUCTION CRITERIA (SSP TYPE SPRINKLERS). MAINTAIN 6" CLEARANCE FROM COOLER SEAMS
2. INSTALL TYCO DRY PENDENT SPRINKLER PER MANUFACTURER'S INSTALLATION REQUIREMENTS. INSERT BOOT PRIOR TO MAKE-UP WITH PIPING.
3. COMPLETELY SEAL INTERFACE BETWEEN BOOT FLANGE AND TOP OF FREEZER/COOLER PANEL WITH ADHESIVE PROVIDED WITH BOOT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
4. APPLY STRAP TIES ON BOOT AROUND DRY SPRINKLER BARREL PER MANUFACTURER'S INSTRUCTIONS.



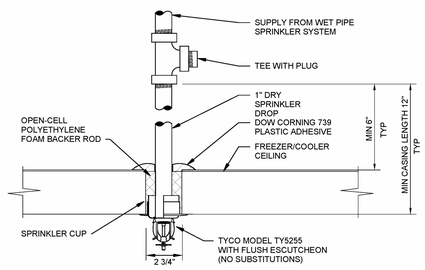
ACCEPTABLE CONNECTIONS OF RESTRAINT WIRE TO STEEL FRAMING



ACCEPTABLE HANGER CONFIGURATION TO RESIST UPWARD MOVEMENT

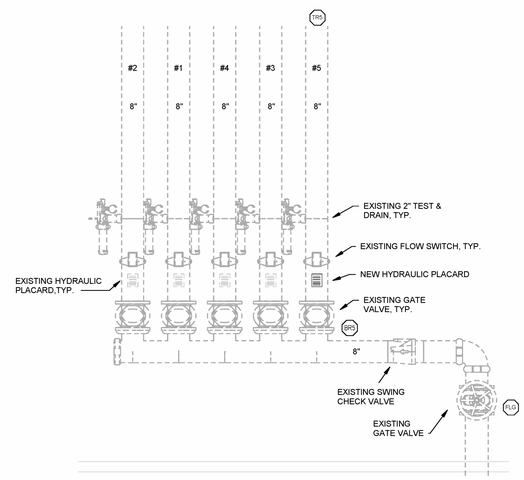
RESTRAIN BRANCH LINES TO SATISFY THE REQUIREMENTS OF NFPA #13 9.3.6 USE NO. 12, 440-LB WIRE INSTALLED AT LEAST 45° FROM THE VERTICAL PLANE AND ANCHORED ON BOTH SIDES OF PIPE. (SEE DETAIL ABOVE FOR ACCEPTABLE CONNECTIONS TO STEEL FRAMING)
WIRE USED FOR RESTRAINT SHALL BE LOCATED WITHIN 2 FT. OF A HANGER. THE HANGER CLOSEST TO A WIRE RESTRAINT SHALL BE OF A TYPE THAT RESISTS UPWARD MOVEMENT OF BRANCH LINE. (SEE DETAIL ABOVE FOR ACCEPTABLE HANGER CONFIGURATION TO RESIST UPWARD MOVEMENT OF PIPE)
THE END SPRINKLER ON A LINE SHALL BE RESTRAINED AGAINST EXCESSIVE VERTICAL AND LATERAL MOVEMENT.
BRANCH LINES SHALL BE RESTRAINED AT INTERVALS NOT EXCEEDING 30 FT.

3 SEISMIC RESTRAINT
NTS



NOTE: CONTRACTOR TO SEAL DRY PENDENT SPRINKLERS AT FREEZER/COOLER USING ONE OF THE OPTIONS ABOVE. NO OTHER SEALANTS ARE PERMITTED

2 FREEZER COOLER K11.2 DRY PENDENT
NTS



ALL FIRE PROTECTION TO REMAIN. NO NEW WORK UNLESS NOTED OTHERWISE. FIRE RISER DETAIL FOR REFERENCE ONLY.

1 EXISTING FIRE RISER ROOM
1/2" = 1'-0"

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

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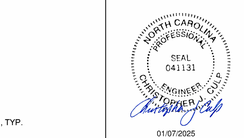
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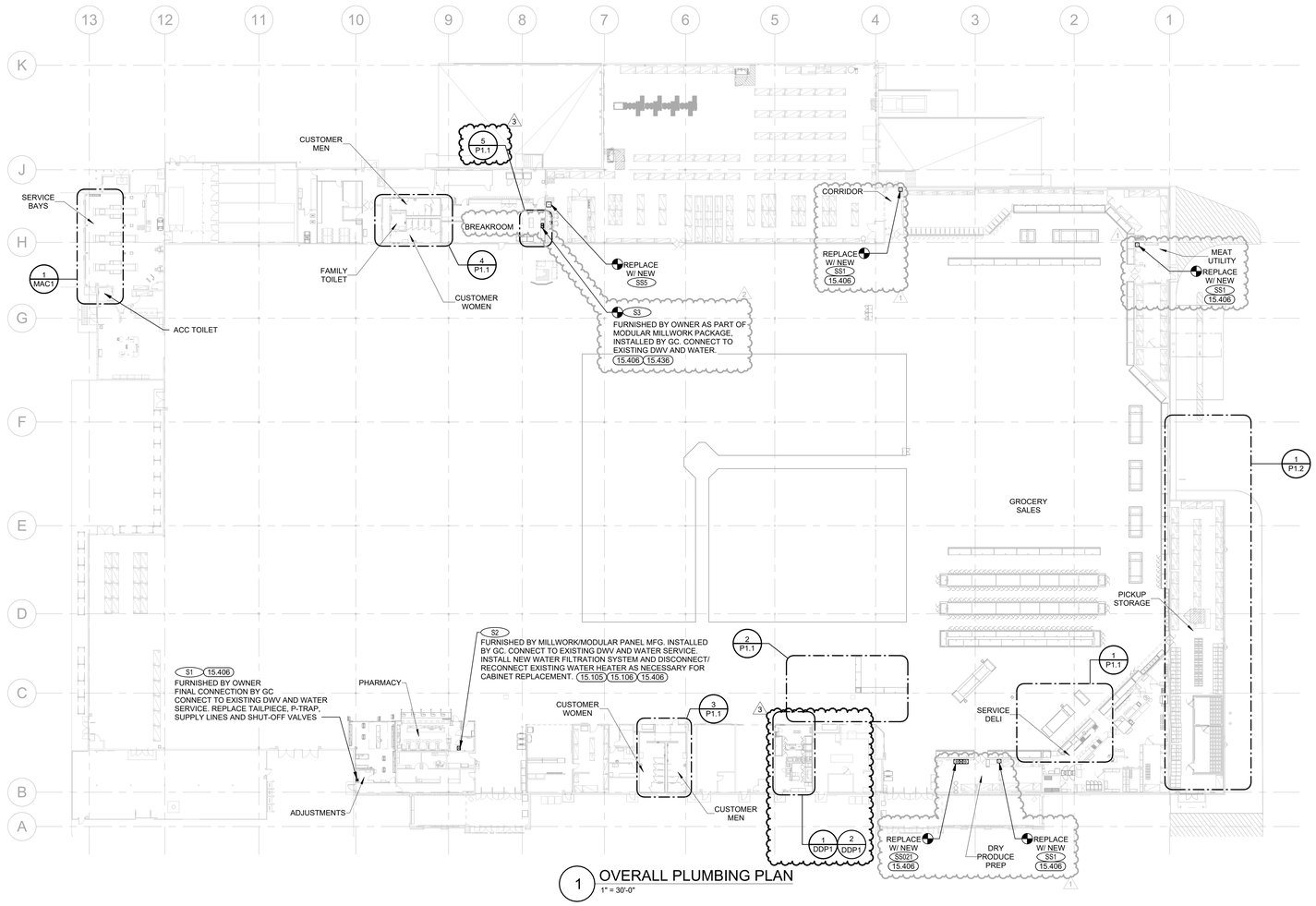
01/07/2025

0 4" 8" 12" 16"
SCALE: 3/32"=1'-0"
UNLESS OTHERWISE NOTED

FIRE PROTECTION DETAILS

SHEET: FP3

CHRISTOPHER J. CULP



1 OVERALL PLUMBING PLAN
1" = 30'-0"

KEYNOTES

15.105	INSTALL FURNISHED WATER FILTRATION SYSTEM DISPENSING UNIT. REF ARCH FOR MOUNTING HEIGHT. CENTERLINE OF UNIT SHALL BE 6" FROM EDGE OF COUNTER. INSTALL RO FAUCET IN 4TH SINK HOLE.
15.106	INSTALL FURNISHED WATER FILTRATION SYSTEM AND WATER STORAGE TANK. INSTALL UNDER COUNTER PER MANUFACTURER'S SPECIFICATIONS.
15.406	MAKE ALL NECESSARY DISCONNECTS AND RECONNECTS OF PLUMBING FIXTURES BEING RELOCATED OR NEW. PROVIDE CONTINUOUS SEALANT ALONG THE EDGES OF RECONNECTED FIXTURES.
15.436	REPLACE SINK AND ASSOCIATED TRIM, INCLUDING THE FAUCET, TAILPIECE, P-TRAP, SUPPLY LINES, AND SHUT-OFF VALVES.

GENERAL NOTES

1. GENERAL NOTES ARE APPLICABLE TO ALL PLUMBING DRAWINGS.
2. PROVIDE ALL MATERIALS FOR A COMPLETE INSTALLATION PER PROJECT SPECIFICATIONS AND READY FOR INTENDED USE AND IN STRICT ACCORDANCE WITH STATE AND LOCAL CODES AND MANUFACTURERS RECOMMENDATIONS.
3. STORE MUST BE KEPT IN OPERATION. ARRANGE ALL WORK TO KEEP DISRUPTIONS TO STORE OPERATIONS TO A MINIMUM. COORDINATE WITH EXISTING AND NEW CONSTRUCTION. PAY ALL NECESSARY FEES AND PERMITS.
4. IF NEW CONSTRUCTION DISRUPTS EXISTING SERVICES (GAS, SEWER, DOMESTIC WATER, ETC.), PROVIDE ALL MATERIALS AND LABOR AS REQUIRED TO MAINTAIN THEIR PROPER OPERATION.
5. EMPLOY OWNER APPROVED ROOFING CONTRACTORS FOR CUTTING AND PATCHING ROOF. REFERENCE SPECIFICATIONS FOR APPROVED ROOFING CONTRACTORS.
6. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY LOCATION AND SIZES OF ALL EXISTING PIPING THAT IS BEING CONNECTED TO OR MODIFIED, AND TO VERIFY THAT PROPER SLOPES AND ELEVATIONS ARE AVAILABLE BEFORE CUTTING FLOOR SLAB. MAINTAIN MINIMUM SLOPE OF 1/8" PER FOOT FOR SAN SEWER PIPING 3" OR LARGER. MAINTAIN MINIMUM SLOPE OF 1/4" PER FOOT FOR SAN SEWER PIPING SMALLER THAN 3". REF ARCH. FOR TRENCHING REQUIREMENTS.
7. SLOPE INTERIOR CONDENSATE PIPING AT 1/8" PER FOOT WHEN NOT INSTALLED PARALLEL TO ROOF SLOPE.
8. PROVIDE ACCESS DOORS TO NEW WATER VALVES AND CLEANOUTS AS NECESSARY WHEN INSTALLED IN INACCESSIBLE AREAS.
9. PLUMBING CONTRACTOR SHALL PROVIDE ONE YEAR WARRANTY FOR PROPER SEWER SYSTEM OPERATION.
10. SANITARY DRAINAGE LINES AND FITTINGS (DRAIN, WASTE AND VENT) SHALL BE PVC-DWV PLASTIC SCHEDULE 40, WHERE REQUIRED BY LOCAL CODES, CAST IRON, COATED INSIDE AND OUTSIDE SHALL BE USED IN LIEU OF PVC. REFERENCE SPECIFICATIONS.
11. WATER PIPING ABOVE GRADE SHALL BE TYPE "L" HARD DRAWN COPPER JOINED WITH WROUGHT COPPER FITTINGS. MAKE JOINTS USING LEAD-FREE SOLDER AND A NON-CORROSIVE, PASTE-TYPE FLUX. MAKE PIPING CONNECTIONS TO A FIXTURE WITH CHROME-PLATED SEAMLESS BRASS TUBE. INSULATE HOT & COLD WATER PIPING WITH RIGID GLASS FIBER WITH WHITE ALL-SERVICE JACKET (VAPOR RETARDER). REFER TO SPEC SECTION 15100 FOR INSULATION THICKNESS. AT CONTRACTOR'S OPTION (U.N.O), IN LIEU OF COPPER WATER PIPING, PEX OR AQUATHERM PIPING MAY BE USED. REFER TO EQUIVALENT NOMINAL PIPE SIZES SCHEDULE AND SPECIFICATIONS.
12. PROVIDE AUTOMATIC TRAP PRIMERS OR BARRIER-TYPE TRAP SEAL PROTECTION ON FLOOR DRAINS WHERE NOT OTHERWISE NOTED IF REQUIRED BY LOCAL PLUMBING CODES.
13. FLOOR CLEANOUTS SHALL BE INSTALLED FLUSH WITH FLOOR FINISH MATERIAL OR FLUSH WITH CONCRETE SLAB IF NO FLOOR FINISH MATERIAL IS CALLED OUT FOR ON ARCHITECTURAL DRAWINGS.
14. CUT AND PATCH EXISTING CONCRETE FLOOR SLAB FOR INSTALLATION OF NEW UNDERGROUND PLUMBING PIPE. FLOOR CUTS SHALL BE STRAIGHT AND CLEAN. REPLACE REMOVED SLAB WITH CONCRETE FLUSH AND SMOOTH WITH ADJACENT FLOOR SLAB. MATCH EXISTING CONSTRUCTION REFERENCE SPEC SECTION 01731. COORDINATE WITH WALMART CONSTRUCTION MANAGER.
15. CAP ALL PIPING OPENINGS DURING CONSTRUCTION UNTIL FINAL CONNECTIONS TO EQUIPMENT AND ACCESSORIES ARE MADE.
16. DO NOT INSTALL PIPING WITHIN COOLER PANELS. INSTALL EXPOSED PIPING IN PREP AREAS A MINIMUM OF 1/2" FROM PANEL WALL AND 6" ABOVE FINISHED FLOOR TO ALLOW FOR CLEANING. USE ONLY NON-CORROSIVE MATERIALS FOR SPACERS AND ANCHORS.
17. PROVIDE ESCUTCHEON PLATES FOR PLUMBING PENETRATIONS THROUGH GROCERY CEILINGS AND WALLS. PROVIDE AIR TIGHT SEAL AROUND PIPING PENETRATIONS THROUGH COOLER/FREEZER WALLS AND CEILINGS. FINISH WITH ESCUTCHEON PLATE.
18. INSTALL CONTINUOUS SEALANT JOINT AT ALL EXTERIOR WALL PENETRATIONS.
19. INSTALL VTR'S A MINIMUM OF 24" FROM ROOF EDGE AND/OR PARAPET WALLS AND A MINIMUM OF 10 FT FROM OUTSIDE AIR INTAKE OF ROOF TOP UNITS.
20. PROVIDE SEISMIC BRACING BASED ON APPROPRIATE SEISMIC ZONE REQUIREMENTS PER SMACNA PUBLISHED SEISMIC DETAILS, LOCAL AND NATIONAL CODES. CONTRACTOR'S RESPONSIBILITY INCLUDES STRUCTURAL ENGINEER'S CERTIFICATION ON DETAILS SUBMITTED FOR PERMITTING.
21. BUILDING COMPONENTS ABANDONED BY THE SCOPE OF WORK SHALL BE SECURED TO PREVENT FALLING, LOOSENING, OR CREATING DAMAGE OF ANY KIND IN THE FUTURE.

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NORTH CAROLINA PROFESSIONAL SEAL 050536 ENGINEER JARROD M. EASTERWOOD

12/3/2025

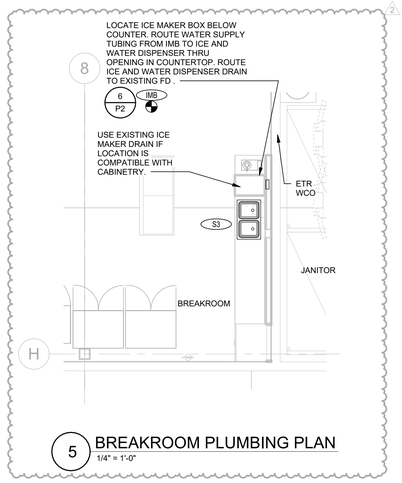
OVERALL PLUMBING PLAN

SHEET: P1

JARROD M. EASTERWOOD

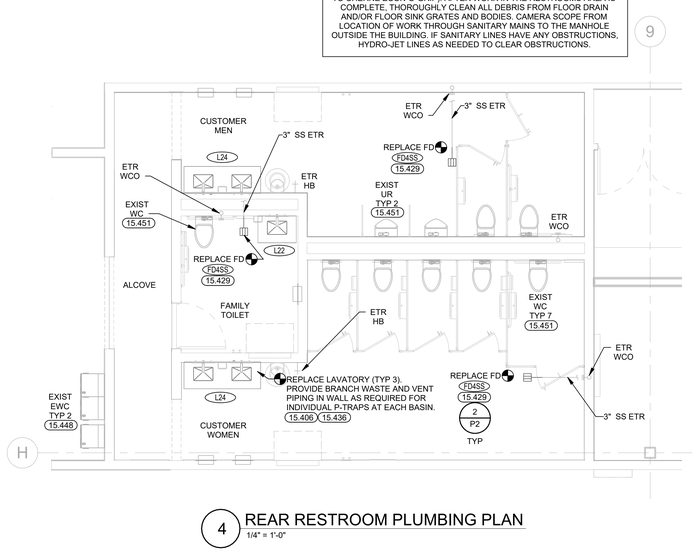
KEYNOTES

15.403	CONNECT TO EXISTING SANITARY PIPE OF EQUAL OR LARGER SIZE. VERIFY SIZE, LOCATION, ELEVATION, AND FLOW DIRECTION AT SITE.
15.405	PROPERLY CAP, PLUG AND CONCEAL ANY PIPING LEFT IN PLACE. CAP ABANDONED SEWER PIPING A MINIMUM OF 6" BELOW FINISHED FLOOR. MATCH EXISTING FLOOR CONSTRUCTION AND FINISHES. RE: ARCHITECTURAL PLANS. REMOVE UNUSED WATER AND VENT PIPING ABOVE CEILING AND CAP REMAINING PIPE.
15.406	MAKE ALL NECESSARY DISCONNECTS AND RECONNECTS OF PLUMBING FIXTURES BEING RELOCATED OR NEW. PROVIDE CONTINUOUS SEALANT ALONG THE EDGES OF RECONNECTED FIXTURES.
15.429	CUT AND PATCH EXISTING CONCRETE FLOOR SLAB FOR INSTALLATION OF NEW UNDERGROUND PLUMBING PIPE. MATCH EXISTING CONSTRUCTION AND FINISHES.
15.436	REPLACE SINK AND ASSOCIATED TRIM, INCLUDING THE FAUCET, TAILPIECE, P-TRAP, SUPPLY LINES, AND SHUT-OFF VALVES.
15.442	TRENCHING AND BACKFILL BY GC, REF ARCH PLANS. COORDINATE WITH GC FOR INSTALLATION SCHEDULE.
15.448	MAKE NECESSARY DISCONNECTS AND RECONNECTS OF PLUMBING FIXTURES FOR RESET AND/OR OR FINISHES WORK. PROVIDE CONTINUOUS SEALANT ALONG THE EDGES OF RECONNECTED FIXTURES.
15.451	MAKE NECESSARY DISCONNECTS AND RECONNECTS OF PLUMBING FIXTURES FOR FINISHES WORK. PROVIDE CONTINUOUS SEALANT ALONG THE EDGES OF RECONNECTED FIXTURES. REPLACE URINAL AND WATER CLOSET FLUSH VALVES ONLY IF DAMAGED.



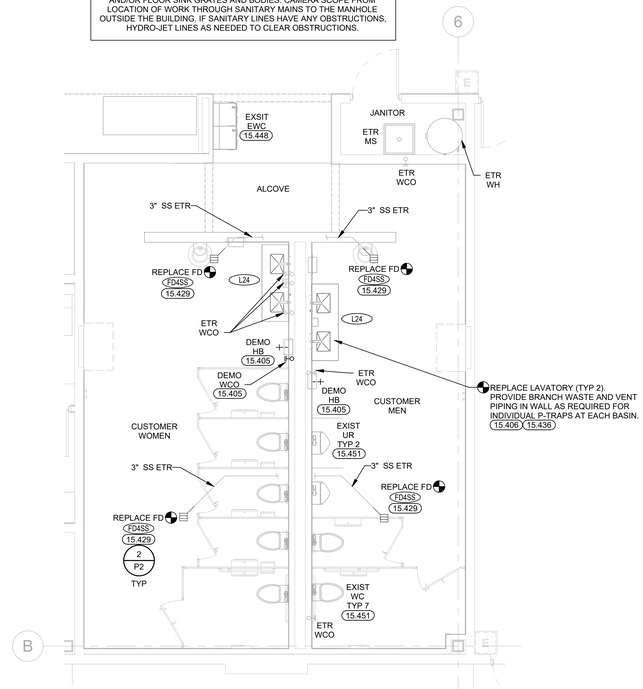
5 BREAKROOM PLUMBING PLAN
1/4" = 1'-0"

PRIOR TO STARTING DEMOLITION WORK, PLUG ALL FLOOR DRAINS AND/OR FLOOR SINKS WITH EXPANDABLE MECHANICAL PLUG (SIMILAR TO CHERNE ECON-O-GRIP). AFTER WORK IN THE RESTROOMS AREA IS COMPLETE, THOROUGHLY CLEAN ALL DEBRIS FROM FLOOR DRAIN AND/OR FLOOR SINK GRATES AND BODIES. CAMERA SCOPE FROM LOCATION OF WORK THROUGH SANITARY MAINS TO THE MANHOLE OUTSIDE THE BUILDING. IF SANITARY LINES HAVE ANY OBSTRUCTIONS, HYDRO-JET LINES AS NEEDED TO CLEAR OBSTRUCTIONS.

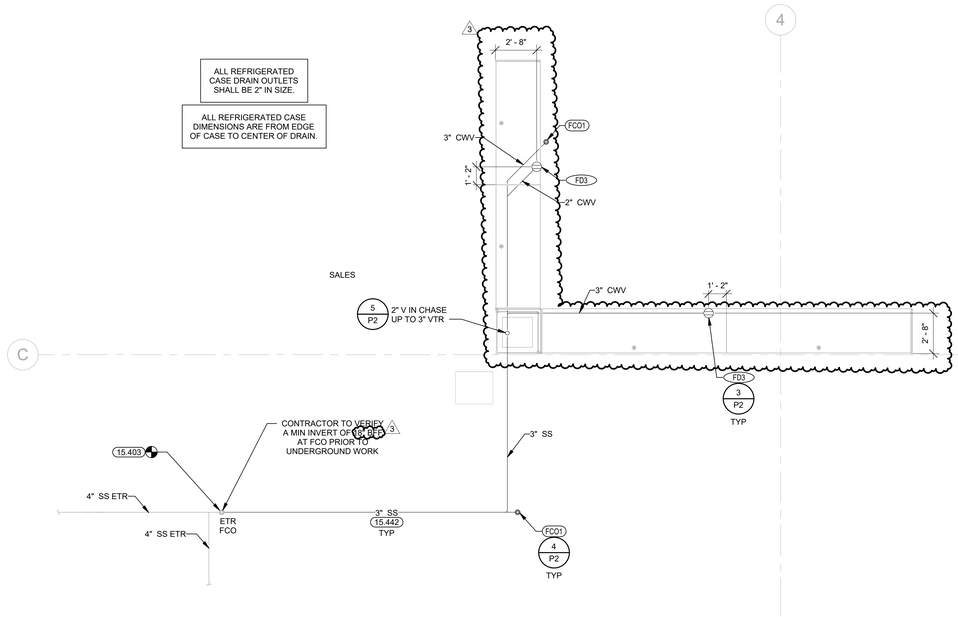


4 REAR RESTROOM PLUMBING PLAN
1/4" = 1'-0"

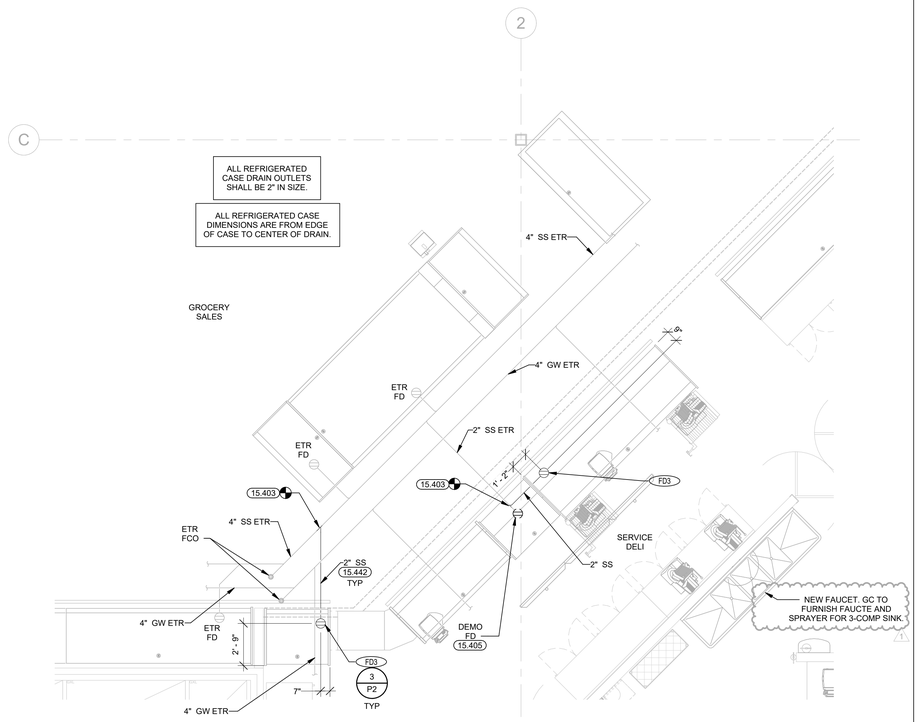
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3 FRONT RESTROOM PLUMBING PLAN
1/4" = 1'-0"



2 GRAB N GO CASES PLUMBING PLAN
1/4" = 1'-0"



1 FRONT GROCERY PLUMBING PLAN
1/4" = 1'-0"

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 050536 JARROD M EASTERWOOD

2/11/2026

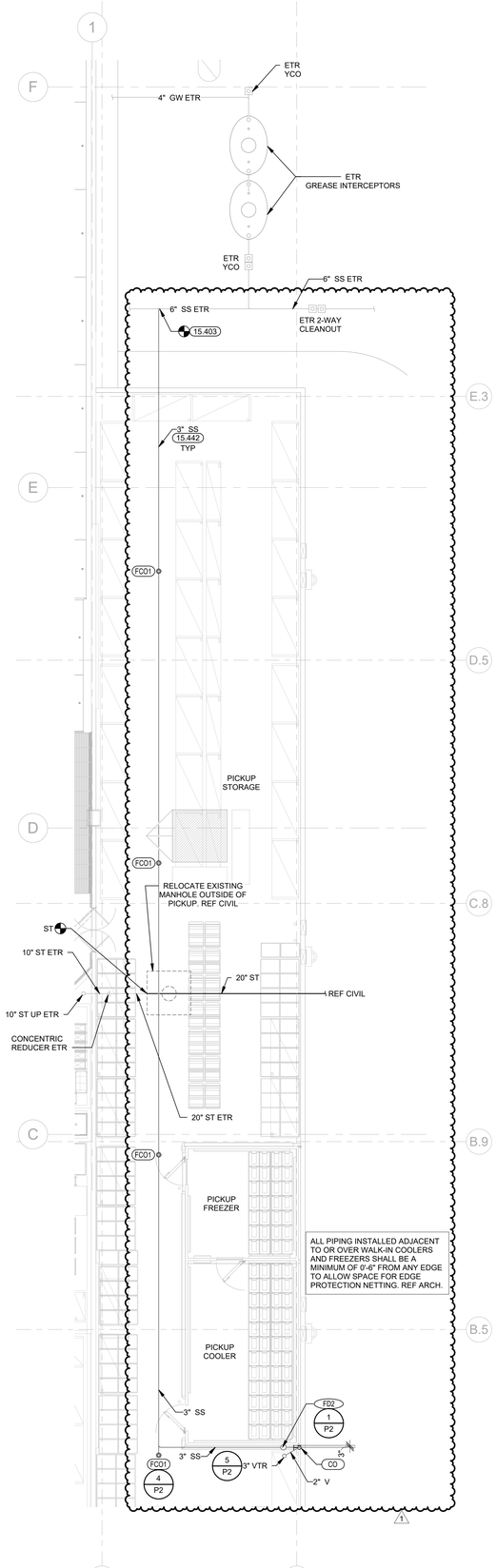
ENLARGED PLUMBING PLANS

SHEET: P1.1

JARROD M. EASTERWOOD

KEYNOTES

15.403	CONNECT TO EXISTING SANITARY PIPE OF EQUAL OR LARGER SIZE. VERIFY SIZE, LOCATION, ELEVATION, AND FLOW DIRECTION AT SITE.
15.442	TRENCHING AND BACKFILL BY GC, REF ARCH PLANS. COORDINATE WITH GC FOR INSTALLATION SCHEDULE.



1 PICKUP PLUMBING PLAN
1/8" = 1'-0"

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELF WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

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NORTH CAROLINA PROFESSIONAL SEAL 050536 ENGINEER JARROD M. EASTERWOOD

9/9/2025

ENLARGED PLUMBING PLANS

SHEET: P1.2

JARROD M. EASTERWOOD

SPECIALTY PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	MANUFACTURER	MODEL	FIXTURE DESCRIPTION	NOTES
WPG	WATER PRESSURE GAUGE	AMETEK TRERICE WEISS INSTRUMENTS	656 D83LFSS LF252	2.5 INCH STAINLESS STEEL CASE, ALL WETTED PARTS STAINLESS STEEL, LIQUID FILLED, 1/4 INCH NPT CONNECTOR, 1.6% ACCURACY, 30" HG VAC TO 100 PSI RANGE.	
WHA	WATER HAMMER ARRESTOR	JOSAM PRECISION PLUMBING PRODUCTS WATTS WILKINS JAY R. SMITH SIOUX CHIEF MIFAB	SERIES 75000 STAINLESS STEEL #316 SERIES SS SERIES MODEL 1250XL SERIES HYDROTROLS HYDRA-RESTER MWH	LEAD FREE CONFORM TO PDI WH-201, ANSI A112.26.1M, ASSE 1010.	
VRV	VACUUM RELIEF VALVE	WATTS	LFN36-M1	LEAD FREE BRASS BODY. CSA/ANSI Z21.22	A
RPZ2	REDUCED PRESSURE BACKFLOW PREVENTER (STAINLESS STEEL)	WATTS	SS009M3QT-S	LEAD FREE, STAINLESS STEEL REDUCED PRESSURE ZONE ASSEMBLY. FURNISHED WITH STAINLESS STEEL STRAINER, VANDAL RESISTANT TEST COCKS, AND FULL PORT QUARTER TURN BALL VALVE SHUTOFFS. INSTALL DRAIN LINE WITH AIR GAP ASSEMBLY TO RECEPTOR APPROVED BY AUTHORITY HAVING JURISDICTION. MINIMUM 175 PSI WORKING PRESSURE.	
RPZ1	REDUCED PRESSURE BACKFLOW PREVENTER	WATTS BEECO FEBCO WILKINS	LF009QT OR LF909 FRP-LF LF860 375XL OR 975XL	LEAD FREE. PROVIDE STRAINER, SHUT-OFF VALVES AND TEST COCKS. INSTALL DRAIN LINE WITH AIR GAP ASSEMBLY TO RECEPTOR APPROVED BY AUTHORITY HAVING JURISDICTION. MINIMUM 175 PSI WORKING PRESSURE.	
FCV	FLOW CONTROL VALVE	BELL & GOSSETT FLOW DESIGN	# CB LF "CIRCUIT SETTER PLUS" ICSS050	LEAD FREE NAMEPLATE AND 1/2" VALVE BODY SIZE UNLESS SHOWN OTHERWISE ON PLANS. SET AND BALANCE TO 0.25 GPM OR PROVIDE 0.25 GPM CARTRIDGE UNLESS SHOWN OTHERWISE ON PLANS AND PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.	A
DCV	DOUBLE-CHECK VALVE BACKFLOW PREVENTER (STAINLESS STEEL)	WATTS	SS007QT-S	ASSE 1015, 316 STAINLESS STEEL BODY, QUARTER TURN TEST COCKS, QUARTER TURN, FULL PORT BALL VALVES AND STAINLESS STEEL STRAINER.	A
BWV	BACKWATER VALVE FLAPPER	SIOUX CHIEF	869	PVC BACKWATER VALVE WITH SLEEVE AND LID AND REMOVABLE ACCESS COVER (850). REF PLAN FOR SIZE.	
---	BARRIER-TYPE TRAP SEAL PROTECTION	SURE SEAL JAY R SMITH	SS4009 2692	INLINE FLOOR DRAIN TRAP SEAL. ASSE 1072	
---	CHECK VALVES	RED-WHITE APOLLO CRANE WATTS NIBCO	232 SERIES 61-100 119J 6 T-413	BRASS JACKET WITH PLASTIC VALVE ASSEMBLY	
---	DOUBLE-CHECK VALVE BACKFLOW PREVENTER	WATTS BEECO FEBCO WILKINS	LF007QT OR LF709 FDC-LF LF850 350XL OR 950XLT2	LEAD FREE. INCLUDE TWO INDEPENDENT-ACTING CHECK VALVES, TWO SHUT-OFF VALVES AND REQUIRED MEANS FOR TESTING FOR EACH ASSEMBLY. MINIMUM 175 PSI WORKING PRESSURE.	
---	LOCKABLE SHUT OFF VALVES	RED-WHITE APOLLO CRANE WATTS	5042 SERIES 70LF-100 LF-T-255 LFB-6000 OR LFB-6001	BRASS BALL VALVES WITH PLASTIC JACKETED LEVER TYPE HANDLE.	
---	STRAINER	WATTS APOLLO	LF777SI 59-004-06	CAST BRONZE Y-STRAINER WITH BALL VALVE	
---	TRAP PRIMER (MULTIPLE TRAPS)	PRECISION PLUMBING PRODUCTS MIFAB JOSAM SIOUX CHIEF	PRIME RITE OR OREGON #1 M-500-NPB 86300 SERIES 695	LEAD FREE, PROVIDE ALL BRONZE PRIMER VALVE WITH REMOVABLE OPERATING PARTS, INTEGRAL VACUUM BREAKER, GASKETED ACCESS COVER, AND MULTIPLE TRAP CAPABILITY	
---	TRAP PRIMER (SINGLE TRAP)	PRECISION PLUMBING PRODUCTS SIOUX CHIEF	PRIME-RITE OR OREGON #1 695	LEAD FREE, PROVIDE ALL BRONZE PRIMER VALVE WITH REMOVABLE OPERATING PARTS, INTEGRAL VACUUM BREAKER, AND GASKETED ACCESS COVER.	
---	VALVES	RED-WHITE APOLLO CRANE WATTS NIBCO	5044AB OR 5049AB SERIES 70 LF LF9210 SERIES LFFBV-3C OR LFFBVS-3C FP-600-A-LF	LEAD FREE FULL PORT BRASS BALL VALVE WITH PLASTIC JACKETED LEVER TYPE HANDLE.	

GENERAL INFORMATION:
1. THIS SCHEDULE IS COMPREHENSIVE. ALL MARKS MAY OR MAY NOT BE USED.

NOTES:
A. FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR. REFER TO SPECIFICATIONS.

GROCERY PLUMBING EQUIPMENT CONNECTION SCHEDULE

MARK	FIXTURE	BRANCH SIZES (MIN) RO	CW	HW	WASTE	VENT	GAS	ROUGH-IN REQUIREMENTS	NOTES
SS021	3-COMPARTMENT 30X94 WITH 18" DB		3/4"	3/4"	3"	1 1/2"		WATER: 12" AFF; WASTE: 12" AFF	C, D, F, S

GENERAL INFORMATION (ALL EQUIPMENT):
1. EQUIPMENT AND TRIM FURNISHED BY OWNER. ROUGH-IN AND FINAL CONNECTIONS BY PLUMBING CONTRACTOR, UNLESS NOTED OTHERWISE.

NOTES:
A. PROVIDE SHUT-OFF VALVES.
B. PROVIDE P-TRAP WITH CLEANOUT PLUG AND ESCUTCHEON.
C. PROVIDE CHROME PLATED ANGLE SUPPLY, FLEXIBLE RISER, AND WHEEL HANDLE WITH ESCUTCHEON.
D. SINK FAUCETS PROVIDED WITH INTEGRAL CHECK VALVES.
E. PROVIDE FULL-SIZE DRAIN LINE FROM EQUIPMENT, END OPEN OVER RECEPTOR WITH 2" AIR GAP.
F. IF PLUMBING PLAN SHOWS THE SINK INDIRECTLY CONNECTED TO FLOOR SINK, THEN WASTE ROUGH-IN HEIGHT AND VENT SIZE AND NOTE B DO NOT APPLY.
G. PROVIDE DOUBLE CHECK BACKFLOW PREVENTER ON WATER SUPPLY. PROVIDE FEMALE NPT VALVE DOWNSTREAM OF BACKFLOW PREVENTER FOR CONNECTION BY OTHERS.
H. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL FLEXIBLE WATER PIPING AND QUICK DISCONNECT TO EQUIPMENT.
I. PROVIDE STAINLESS STEEL DOUBLE CHECK BACKFLOW PREVENTER EQUAL TO WATTS SS007QT-S ON RO WATER SUPPLY. PROVIDE PEX TUBING ON DOWNSTREAM SIDE OF BACKFLOW PREVENTER.
J. INSTALL THERMOSTATIC MIXING VALVE FURNISHED WITH SINK WITH HARD-PIPED CONNECTIONS TO ANGLE STOPS AND FLEXIBLE CONNECTIONS BETWEEN THERMOSTATIC MIXING VALVE, FOOT PEDAL (PEDESTAL HAND SINK) OR KNEE LEVER (WALL MOUNTED HAND SINK) OR WRIST BLADE LEVERS (ADA WALL MOUNTED HAND SINK) AND SINK. SET AT 105°F.
K. IF RO WATER IS NOT AVAILABLE, PROVIDE INDIVIDUAL WATER FILTER PACKS AS REQUIRED BY WALMART CONSTRUCTION MANAGER.
L. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL EXPOSED DOUBLE CHECK BACKFLOW PREVENTER (WATTS #007 OR EQUAL).
M. PROVIDE COLD WATER INJECTOR OPTION IF ON PLAN OR REQUIRED BY AHJ. REQUIRES 1/2" CW LINE AT FLOOR DRAIN. MODEL #CWI-500.
N. REFER TO ARCHITECTURAL DRAWINGS FOR HAND SINK LEFT (L) AND RIGHT (R) DESIGNATIONS WHICH INDICATE INTEGRAL SPLASHGUARD LOCATIONS OR HAND SINK (H) FOR ADA DESIGNATION.
O. REFRIGERATION CONTRACTOR TO INSTALL MISTING SYSTEM. SUPPLY SIDE ROUGH-IN AND FINAL CONNECTION BY PLUMBING CONTRACTOR.
P. RO VENDOR SHALL BE RESPONSIBLE FOR LOCATIONS OF DRINK DISPENSER AND WATER FILTRATION EQUIPMENT AND ALL FINAL CONNECTIONS.
Q. PROVIDE 1 1/2" P-TRAP AT 12"AFF WITH 1 1/2" TO 3/4" REDUCER FOR CONNECTION TO RO WATER DISPENSER DRAIN.
R. PROVIDE 3/4" I.D. FEMALE FITTING AND SHUT-OFF FOR RO DISPENSER WATER CONNECTION AT 18"AFF.
S. INSTALL 1.2 GPM SPRAY HEAD ON PRE-RINSE SPRAYER FURNISHED BY FIXTURE MANUFACTURER. PLUMBING CONTRACTOR SHALL FURNISH ORIGINAL SPRAY HEAD TO OWNER.
T. EQUIPMENT FURNISHED WITH INTEGRAL BACKFLOW PREVENTER FOR CARBONATED WATER LINE.
U. FILTERED WATER PIPING TO EQUIPMENT IS PROVIDED UNDER SEPARATE CONTRACT.
V. PLUMBING CONTRACTOR SHALL PROVIDE INLINE FILTER PER MANUFACTURE`S RECOMMENDATIONS.
W. PROVIDE 36" FLEXIBLE GAS CONNECTION.
X. PROVIDE 48" FLEXIBLE GAS CONNECTION WITH QUICK DISCONNECT AND UPSTREAM GAS SHUT-OFF VALVE.
Y. ATTACH SINK TO WALL WITH CONTRACTOR-PROVIDED STAINLESS STEEL SLOTTED ROUND HEAD FASTENERS OR SHEET METAL SCREWS INSTALLED THROUGH HOLES DRILLED BY CONTRACTOR THROUGH TOP FLANGE OF SINK BACKSPLASH. FOR FRAMED WALLS, USE TWO EVENLY SPACED FASTENERS FOR PREP SINKS AND THREE EVENLY SPACED FASTENERS FOR 3-COMPARTMENT SINKS TO WALL STUDS. FOR SINKS INSTALLED ON COOLER PANEL WALLS, ATTACH SINKS TO COOLER PANEL OUTER SHEET METAL WITH SCREWS AT 12" CENTERS ALONG BACKSPLASH.
Z. SUPPORT INDIRECT DRAIN LINE FROM FLOOR AND INSTALL LINE AS CLOSE TO EQUIPMENT AS POSSIBLE.

TOILET PLUMBING FIXTURE SCHEDULE

ALL PRODUCTS ON THIS SCHEDULE ARE FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR. REFER TO SPECIFICATIONS.

MARK	FIXTURE	BRANCH SIZES (MIN) CW	HW	WASTE	VENT	MANUFACTURER	MODEL	TRIM AND ACCESSORIES	NOTES
L22	LAVATORY DECK 1-STATION TEMPERED		1/2"	1 1/2"	1 1/2"	VERONA REMBRANDT	SMQ0046-1S RSM-UM7100-30"-00-SB	VERONA: WALL MOUNTED, ONE-PIECE QUARTZIA DECK (BIANCO SAND) REMBRANDT: WALL MOUNTED, ONE-PIECE QUARTZ DECK (SNOW BLIND) BOWL: CHINA SHELL CH-6360 UNDERMOUNT 18"x13" CHINA BOWL(S) VERONA BASE: ACORN EN1121A0-002 ENVIRO-GLAZED WHITE ENCLOSURE. 1 REMBRANDT BASE: METZFAB MET-PRT-420-000 WHITE ENCLOSURE. FAUCET: TOTO T28S51E#CP, 0.5 GPM SENSOR OPERATED SELF-GENERATING POWER SYSTEM. CHROME PLATED BRASS P-TRAP WITH CLEANOUT, GRID STRAINER WITH TAILPIECE. CONNECTION ACCESSORIES: (1) STOP VALVE, (1) 3/8" x 1/2" SS BRAIDED WATER SUPPLY PER FAUCET; TMV NOT REQUIRED.	E
L24	LAVATORY DECK 2-STATION TEMPERED		1/2"	1 1/2"	1 1/2"	VERONA REMBRANDT	SMQ0046-2S RSM-UM7200-60"-00-SB	VERONA: WALL MOUNTED, ONE-PIECE QUARTZIA DECK (BIANCO SAND) REMBRANDT: WALL MOUNTED, ONE-PIECE QUARTZ DECK (SNOW BLIND) BOWL: CHINA SHELL CH-6360 UNDERMOUNT 18"x13" CHINA BOWL(S) VERONA BASE: ACORN EN1121A0-002 ENVIRO-GLAZED WHITE ENCLOSURE. 1 REMBRANDT BASE: METZFAB MET-PRT-420-000 WHITE ENCLOSURE. FAUCET: TOTO T28S51E#CP, 0.5 GPM SENSOR OPERATED SELF-GENERATING POWER SYSTEM. CHROME PLATED BRASS P-TRAP WITH CLEANOUT, GRID STRAINER WITH TAILPIECE. CONNECTION ACCESSORIES: (1) STOP VALVE, (1) 3/8" x 1/2" SS BRAIDED WATER SUPPLY PER FAUCET; TMV NOT REQUIRED.	E
WC8	WATER CLOSET ACCESSIBLE (TANK) (FLOOR MOUNT)	1/2"		4"	2"	TOTO AMERICAN STANDARD	CST744EL 215AA.104	1.28 GPF FLUSH TANK W/ LOCKING COVER ELONGATED SEAT: BEMIS 1055SSC; MAINLINE ML1055SSC. SUPPLY LINE: STAINLESS STEEL BRAIDED HOSE, 1/4 TURN BALL VALVE STOP. CAST IRON FLOOR FLANGE: ZURN CF-2984-CI4, TYLER 2-252TS, WITH "NO SEEP" WAX RING AND BRASS ANCHOR BOLTS.	

GENERAL INFORMATION (ALL FIXTURES):
1. SUBSTITUTIONS NOT PERMITTED. REF SPECIFICATIONS FOR APPROVED MANUFACTURERS OF THE FOLLOWING TRIM AND ACCESSORIES:
-P-TRAP WITH CLEANOUT PLUG: POLISHED CHROME-PLATED TUBULAR BRASS, 17 GAUGE WITH BRASS NUTS AND SLIP INSERTS.
-SS BRAIDED WATER SUPPLY: FLEXIBLE BRAIDED STAINLESS STEEL (SS) OUTER SHEATHING WITH REINFORCED PVC INNER TUBING.
-STOP VALVES: CHROME PLATED BRASS, QUARTER TURN ANGLE STOP VALVES.

NOTES:
A. FURNISH WITH 1/2" X 3 3/4" STAINLESS STEEL SIMPSON WEDGE-ALL WEDGE ANCHORS FOR ALL FIOOR MOUNTED FIXTURE CARRIERS.
B. REFERENCE ARCHITECTURAL DRAWINGS FOR EWC2 ORIENTATION.
C. COORDINATE WATER ROUGH-IN HEIGHT FROM MANUFACTURER'S INSTALLATION INSTRUCTIONS WITH GRAB BAR LOCATION. REF ARCH.
D. USE SAME MANUFACTURER FOR UR1 AND UR2.
E. FURNISH WITH LAVATORY DECK ASSEMBLY FIXTURE AND TRIM.

PLUMBING FIXTURE SCHEDULE

ALL PRODUCTS ON THIS SCHEDULE ARE FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR. REFER TO SPECIFICATIONS.

MARK	FIXTURE	BRANCH SIZES (MIN) CW	HW	WASTE	VENT	MANUFACTURER	MODEL	DESCRIPTION, TRIM AND ACCESSORIES	NOTES
3 IMB	ICE MAKER BOX	1/2"				OATEY SIOUX CHIEF	39152 696-G1010	WHITE PLASTIC SQUARE OUTLET BOX WITH LOW-LEAD BOTTOM INLET WATER SUPPLY, HAMMER ARRESTOR, AND PLATED 1/2" x 1/4" 1/4-TURN COMPRESSION ANGLE STOP VALVE. COORDINATE INSTALLATION WITH EQUIPMENT INSTALLER AND MAKE FINAL CONNECTIONS.	
S1	SINK (MC) 1- COMPARTMENT STAINLESS STEEL	1/2"	1/2"	2"	1 1/2"	ELKAY	BPSR15	1 HOLES, 0.5 GPM LOW FLOW RESTRICTOR AND AERATOR FAUCET LEAD FREE: ELKAY LK-800GN05L2 DRAIN: DEARBORN BRASS 3784	C, D, H
S2	SINK (RX) 1- COMPARTMENT STAINLESS STEEL	1/2"	1/2"	2"	1 1/2"	DAYTON BY ELKAY KOHLER	D-12521 K-3348	4 HOLES, 2.2 GPM FLOW RESTRICTOR AND AERATOR FAUCET LEAD FREE: ELKAY LK-1000, KOHLER K15071-P DRAIN: ELKAY LK-35, KOHLER K3801	C, D, H
S3	SINK (BR) 2-COMPARTMENT STAINLESS STEEL	1/2"	1/2"	2"	1 1/2"	ELKAY JUST MANUFACTURING	LRAD2918 DL-ADA-1829-A	3 HOLES, DROP-IN STYLE, 8 1/2" MAXIMUM DEPTH FAUCET LEAD FREE: SPEAKMAN SC-5724-E, ZURN Z871C4-XL 2.2 GPM FLOW RESTRICTOR, AERATOR DRAIN: ELKAY LK-35, JUST JB-99	C, D, H
SS1	SERVICE SINK (TERRAZZO) 24" x 24" x 12"	3/4"	3/4"	3"	2"	STERN-WILLIAMS FIAT ACORN	SB-800 TSB-200 TSH-24-SSC-LR	CHROME PLATED FAUCET WITH INTEGRAL CHECK VALVES, HOSE, BRACKET (MOUNT DIRECTLY ABOVE WALL GUARD), MOP HANGER (60"AFF). FAUCET: CHICAGO 897-CP (DISCARD STANDARD SUPPLY ARMS & CONNECT (2) GCJKCP SUPPLY ARMS USING (2) 897-020JKRCF ADAPTERS), ZURN Z843M1-CS, T&S BRASS B-0665-BSTP W/ ETERNA CARTRIDGES & SPRING CHECKS. HOSE/BRACKET: STERN WILLIAMS T-35, FIAT 832-AA, ACORN KH36. MOP HANGER: STERN WILLIAMS T-40, FIAT 889-CC, ACORN KMH.	<varies>
SS5	SERVICE SINK (TERRAZZO) 32" x 32" x 12" 6" DROP FRONT	3/4"	3/4"	3"	2"	STERN-WILLIAMS FIAT ACORN	HL-1910-LB TSB-3001 TDF-32-SSC-LB	CHROME PLATED FAUCET WITH INTEGRAL CHECK VALVES, HOSE, BRACKET (MOUNT DIRECTLY ABOVE WALL GUARD), MOP HANGER (60"AFF), LINT BASKET, & S.S. CAP ON ALL SIDES. FAUCET: CHICAGO 897-CP (DISCARD STANDARD SUPPLY ARMS & CONNECT (2) GCJKCP SUPPLY ARMS USING (2) 897-020JKRCF ADAPTERS), ZURN Z843M1-CS, T&S BRASS B-0665-BSTP W/ ETERNA CARTRIDGES & SPRING CHECKS. HOSE/BRACKET: STERN WILLIAMS T-35, FIAT 832-AA, ACORN KH36. MOP HANGER: STERN WILLIAMS T-40, FIAT 889-CC, ACORN KMH.	B

GENERAL INFORMATION (ALL FIXTURES):
1. SUBSTITUTIONS NOT PERMITTED. REF SPECIFICATIONS FOR APPROVED MANUFACTURERS OF THE FOLLOWING TRIM AND ACCESSORIES:
-P-TRAP WITH CLEANOUT PLUG AND SINK CONTINUOUS WASTES: POLISHED CHROME-PLATED TUBULAR BRASS, 17 GAUGE WITH BRASS NUTS AND SLIP INSERTS.
-SS BRAIDED WATER SUPPLY: FLEXIBLE BRAIDED STAINLESS STEEL (SS) OUTER SHEATHING WITH REINFORCED PVC INNER TUBING.
-STOP VALVES: CHROME PLATED BRASS, QUARTER TURN ANGLE STOP VALVES.

NOTES:
A. MOUNT EYEWASH 36" AFF TO TOP OF HEAD SPRAY.
B. INSTALL MOP SINK FAUCET AT 32" AFF AND LOCATE TWO MOP HANGER BRACKETS SIDE BY SIDE NEAR MOP SINK.
C. FURNISH WITH ZURN TMV (MODEL ZW3870XLT) UNLESS SERVED WITH TEMPERED WATER OR NOTED OTHERWISE ON PLUMBING DRAWINGS. SET AT 120° F.
D. TRIM WITH OFFSET TAILPIECE, 5/8" ARMAFLEX INSULATION ON EXPOSED HOT WATER AND DRAIN LINES. HOLD ALL EXPOSED PIPING HIGH AS POSSIBLE.
E. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR ACTUAL ROUGH-IN HEIGHT REQUIREMENTS.
F. FURNISH WITH 1/2" X 2 1/2" STAINLESS STEEL SIMPSON WEDGE-ALL ANCHORS FOR ALL FIXTURES.
G. CONTRACTOR TO COORDINATE THE REQUIRED CARRIER PRIOR TO ORDERING.
H. SINK FURNISHED WITH CABINET ASSEMBLY. INSTALLATION BY CONTRACTOR.

EQUIVALENT NOMINAL PIPE SIZES			
PLAN SIZE (COPPER)	POLYPROPYLENE HOT WATER	POLYPROPYLENE COLD WATER	PEX
1/2"	1/2"	1/2"	1/2"
3/4"	3/4"	3/4"	1"
1"	1"	1"	1 1/4"
1 1/4"	1 1/2"	1 1/4"	1 1/2"
1 1/2"	2"	1 1/2"	2"
2"	2 1/2"	2"	2 1/2"
2 1/2"	3"	2 1/2"	3"
3"	3 1/2"	3"	N/A
4"	6"	4"	N/A

NOTE: REFER TO SPECIFICATIONS FOR APPROVED MANUFACTURERS.

FLOOR DRAIN SCHEDULE

ALL PRODUCTS ON THIS SCHEDULE ARE FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR. REFER TO SPECIFICATIONS.

MARK	MANUFACTURER	MODEL	DESCRIPTION
FD2	CONTRACTOR PROVIDED		HUB DRAIN SAME AS SANITARY WASTE PIPING MATERIAL UNLESS NOTED OTHERWISE ON PLANS
FD3	SIOUX CHIEF JOSAM	860 FD-370	LIGHT DUTY PVC WITH 9" DIAMETER LOOSE SET PVC HALF GRATE
FD4SS	JOSAM ZURN	3000-S-SS ZS415-3NH-6S-P	STAINLESS STEEL FLOOR DRAIN, 6" X 6" SQUARE TOP, SECURED GRATE

CLEANOUT SCHEDULE

ALL PRODUCTS ON THIS SCHEDULE ARE FURNISHED BY OWNER AND INSTALLED B Y CONTRACTOR. REFER TO SPECIFICATIONS.

MARK	MANUFACTURER	MODEL	DESCRIPTION
CO	CONTRACTOR PROVIDED		THREADED, COUNTERSUNK CLEANOUT PLUG SAME AS SANITARY WASTE PIPING MATERIAL UNLESS NOTED OTHERWISE ON PLANS.
FCO1	ZURN SIOUX CHIEF MIFAB JAY R. SMITH JOSAM WATTS OATEY	Z1400 852 C1100 4231 55000 CO-200-RX-4 74000	CAST IRON OR PVC BODY, ROUND EXTRA HEAVY-DUTY CAST OR DUCTILE IRON TOP, POLYPROPYLENE OR ABS PLUG, ADJUSTABLE TO FINISH SURFACE.

GENERAL INFORMATION (AS APPLICABLE):
1. REFER TO PLANS FOR DRAIN OUTLET SIZE.
2. AMSE LOAD CLASSIFICATIONS: LIGHT DUTY <2000 LBS, MEDIUM DUTY 2000 - 4999 LBS, HEAVY DUTY 5000 - 7499 LBS, EXTRA HEAVY DUTY 7500 - 9999 LBS.

PLUMBING SYMBOLS

CWV	COMBINATION WASTE AND VENT
SS	SANITARY SEWER
GW	GREASE WASTE
OW	OIL WASTE
CD	CONDENSATE DRAIN
PD	PUMP DISCHARGE
ID	INDIRECT DRAIN
ST	STORM SEWER
RD	ROOF DRAIN LINE
ORD	OVERFLOW ROOF DRAIN LINE
	SIPHONIC ROOF DRAIN LINE
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RETURN
IW	IRRIGATION WATER
T	TEPID OR TEMPERED WATER
-RO-S-/-RO-D-	REVERSE OSMOSIS WATER (STORE/DISPENSER)
F	FILTERED WATER
NPW	NON-POTABLE WATER
G	NATURAL GAS
A	COMPRESSED AIR
V	PLUMBING VENT
VBF	VENT BELOW FLOOR
VAC	PLUMBING VACUUM
	DEMO PIPE
	UNION
	GAS PRESSURE REGULATOR
	GAS COCK
	ELBOW - TURNED DOWN
	ELBOW - TURNED UP
	TEE - TURNED DOWN
	TEE - TURNED UP
	BALL VALVE
	FLOW CONTROL VALVE
	PLUG VALVE
	CHECK VALVE
	SHUT-OFF VALVE IN VERTICAL LINE
	BACKFLOW PREVENTER
M	WATER METER
WHA	WATER HAMMER ARRESTOR
	THERMOMETER
	T & P RELIEF VALVE
TMV	THERMOSTATIC MIXING VALVE
FD	FLOOR DRAIN
RD	ROOF DRAIN/OVERFLOW ROOF DRAIN
FS	FLOOR SINK
FCO	FLOOR CLEANOUT
YCO	YARD CLEANOUT
FPWH	FREEZE PROOF WALL HYDRANT
HB	HOSE BIBB
WCO	WALL CLEANOUT
	CONNECT TO EXISTING
ETR	EXISTING TO REMAIN
EXIST	EXISTING WITH MODIFICATIONS

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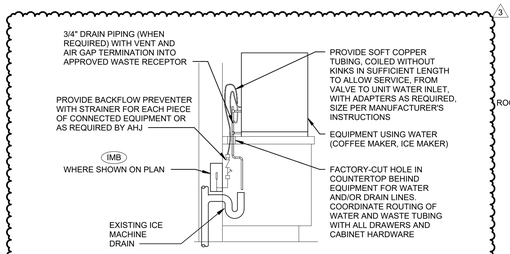
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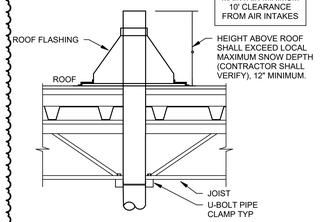
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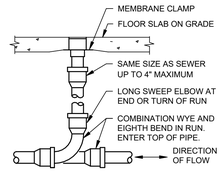
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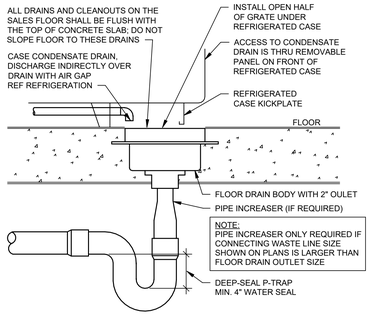
6 ICE AND WATER DISPENSER PLUMBING CONNECTION
NTS



5 VENT THRU ROOF (VTR)
NTS

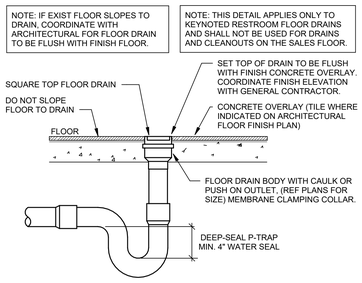


4 FLOOR CLEANOUT
NTS

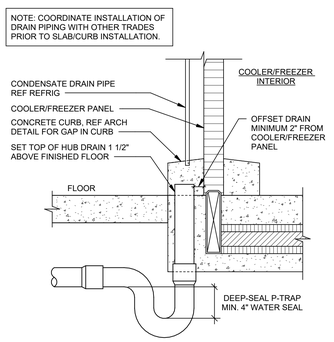


LOCATE FLOOR DRAIN WHERE SHOWN ON DIMENSIONED PLUMBING FLOOR PLAN

3 REFRIGERATED CASE DRAIN
NTS



2 OPEN FLOOR AREA DRAIN - RR
NTS


NOTE: COORDINATE INSTALLATION OF DRAIN PIPING WITH OTHER TRADES PRIOR TO SLAB/CURB INSTALLATION.
CONDENSATE DRAIN PIPE REF REFRIG
COOLER/FREEZER PANEL
CONCRETE CURB, REF ARCH DETAIL FOR GAP IN CURB
SET TOP OF HUB DRAIN 1 1/2" ABOVE FINISHED FLOOR
COOLER/FREEZER INTERIOR
OFFSET DRAIN MINIMUM 2" FROM COOLER/FREEZER PANEL
FLOOR
DEEP-SEAL P-TRAP MIN. 4" WATER SEAL

ONE MONTH PRIOR TO ONE WEEK NOTICE BELOW, CONTACT FILTER COMPANY TO COORDINATE MAKE, MODEL AND SERIAL NUMBER OF NEW AHU(S)/RTU(S).

ONE WEEK PRIOR TO INSTALL OF NEW UNIT(S), CONTACT FILTER COMPANY TO COORDINATE NEW FILTER FRAME INSTALL. INFORM FILTER COMPANY OF DATE WHEN UNIT(S) WILL BE INSTALLED ON ROOF AND WHEN TEST AND BALANCE IS SCHEDULED. IN LIEU OF PROVIDING STANDARD FILTER PRIOR TO TEST AND BALANCE, PURCHASE FILTER MEDIA FROM FILTER COMPANY TO BE INSTALLED WITH FILTER FRAME BY FILTER COMPANY. IF FILTER COMPANY TECH IS UNABLE TO BE ONSITE FOR FILTER FRAME(S) INSTALL PRIOR TO TEST AND BALANCE, PROVIDE NEW FILTER(S) IN UNIT(S) EQUAL IN QUALITY TO FACTORY INSTALLED FILTER WITH MERV RATING AS NOTED ON EQUIPMENT SCHEDULE, REF SPECIFICATION 01455.

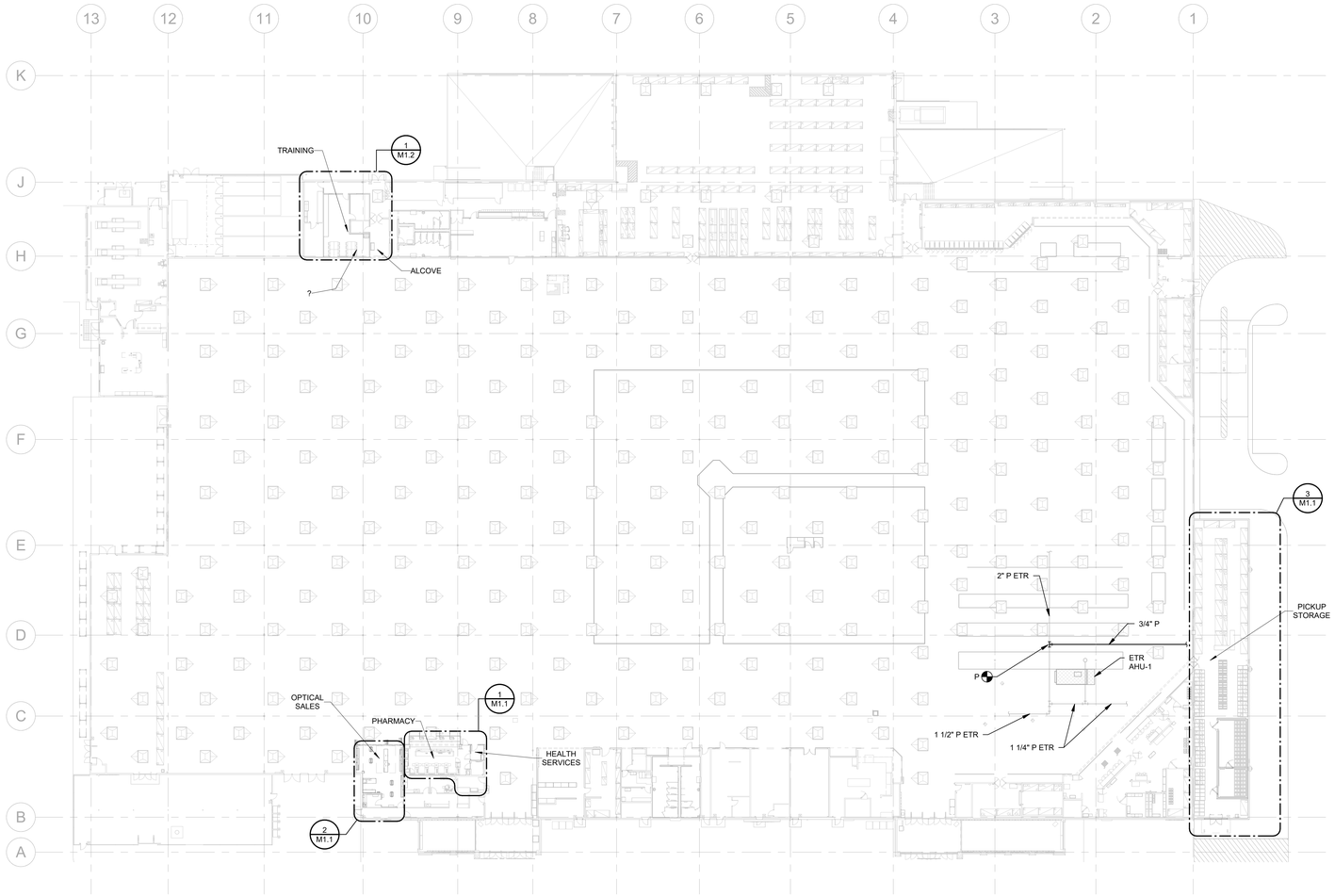
BONDED FILTER COMPANY (BFC)
PHONE #: 615-724-0105
EMAIL: WALMART@BFCSOLUTIONS.COM.

PLYLER'S-AT YOUR SERVICE
PHONE #: 814-715-1097
EMAIL: RICKMAYS@AYSINC.NET

24 HOURS PRIOR TO SHUTTING DOWN ANY REFRIGERATION SYSTEMS, HVAC SYSTEMS, OR BUILDING AUTOMATION CONTROLS SYSTEMS, SEND E-MAIL TO NSRM@WALMART.COM. THE E-MAIL SHALL STATE WHAT, WHY, AND WHEN IT IS BEING SHUT DOWN AND HOW LONG IT IS ANTICIPATED TO BE DOWN. THEN SEND A FOLLOW UP E-MAIL TO NSRM@WALMART.COM AFTER THE WORK IS COMPLETE AND THE SYSTEM IS BACK UP AND RUNNING.

GAS COMPANY CONTACT:
AMERIGAS
919-779-7066

EXISTING TOTAL GAS LOAD =	11,214 MBH
GAS LOAD ADDED =	180 MBH
NEW TOTAL GAS LOAD =	11,394 MBH
GAS PRESSURE =	5 PSIG



1 OVERALL MECHANICAL PLAN
1" = 30'-0"

GENERAL NOTES

1. GENERAL NOTES ARE APPLICABLE TO ALL MECHANICAL DRAWINGS.
2. PROVIDE ALL MATERIALS FOR A COMPLETE INSTALLATION PER PROJECT SPECIFICATIONS AND READY FOR INTENDED USE AND IN STRICT ACCORDANCE WITH STATE AND LOCAL CODES AND MANUFACTURERS RECOMMENDATIONS.
3. STORE MUST BE KEPT IN OPERATION. ARRANGE ALL WORK TO KEEP DISRUPTIONS TO STORE OPERATIONS TO A MINIMUM. COORDINATE WITH EXISTING AND NEW CONSTRUCTION. PAY ALL NECESSARY FEES AND PERMITS.
4. IF NEW CONSTRUCTION DISRUPTS EXISTING SERVICES (GAS, SEWER, DOMESTIC WATER, ETC.), PROVIDE ALL MATERIALS AND LABOR AS REQUIRED TO MAINTAIN THEIR PROPER OPERATION.
5. EMPLOY OWNER APPROVED ROOFING CONTRACTORS FOR CUTTING AND PATCHING ROOF. REFERENCE SPECIFICATIONS FOR APPROVED ROOFING CONTRACTORS.
6. INSTALL OWNER FURNISHED RTU CURB AND TEMPORARY COVER CURB PER ARCH DETAIL (IF USED). RTU'S SHALL BE FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR. CURB ADAPTOR (IF USED) SHALL BE FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR. RTU SHALL BE SET ON ROOF CURB. DO NOT SET RTU DIRECTLY ON ROOF. COORDINATE RTU INSTALLATION WITH WALMART CONSTRUCTION MANAGER AND AES AS REQUIRED FOR RTU/AHU CURB ADAPTERS.
7. REPLACE FILTERS ON NEW RTU NO MORE THAN ONE DAY PRIOR TO STARTING TEST & BALANCE PROCEDURES. FILTERS SHALL BE A MINIMUM MERV8 RATING, REFERENCE SPECIFICATIONS.
8. EXTERNALLY LABEL RTUS AND EXHAUST FANS WITH BLACK LETTERS. LOCATE LABEL FOR UNITS SO IT IS READABLE FROM ROOF HATCH. IAQ RTUS MUST BE LABELED "IAQ" IN RED LETTERS. REFERENCE SPECIFICATION FOR LABEL TYPE AND SIZE.
9. IF RTUS ARE INSTALLED BEFORE ROOFING IS COMPLETED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE WHICH OCCURS DURING THE ROOFING PROCESS.
10. MECHANICAL FAILURE OF NEW ROOFTOP UNITS PRIOR TO ACCEPTANCE BY OWNER, SHALL BE REPAIRED OR REPLACED BY CONTRACTOR THROUGH WARRANTY AGREEMENT WITH MANUFACTURER.
11. FIELD VERIFY THE EXISTING EQUIPMENT AND ACCESSORIES BEING REUSED IN THIS SCOPE OF WORK IS NOT DAMAGED AND IS IN GOOD WORKING ORDER. REPORT DEFICIENCIES TO THE OWNER OR ARCHITECT.
12. COORDINATE ALL NEW GAS PIPING AND ROOF EQUIPMENT WITH EXISTING GAS PIPING, SKYLIGHTS, AND ROOF EQUIPMENT. FIELD VERIFY EXISTING CONDITIONS.
13. ROOFTOP UNITS BEING ADDED TO EXISTING ROOF STRUCTURE SHALL BE INSTALLED WHEN UNITS ARRIVE AT THE JOB SITE. DO NOT STORE UNITS ON GROUND UNLESS PERMISSION FROM WALMART CM IS ATTAINED. REFERENCE ARCHITECTURAL / STRUCTURAL SHEETS FOR INSTALLATION DETAILS.
14. INSTALL FLUES A MINIMUM OF 36" FROM ROOF EDGE AND/OR PARAPET WALLS. INSTALL FLUES AND EXHAUST FANS A MINIMUM OF 10 FT FROM OUTSIDE AIR INTAKE OF ROOF TOP UNITS. INSTALL EXHAUST FANS AND ROOF TOP UNITS A MINIMUM OF 10 FT FROM ROOF EDGE OR A MINIMUM OF 60" FROM PARAPET WALLS THAT ARE AT LEAST 42" HIGH.
15. COORDINATE DUCTWORK WITH LIGHT FIXTURES. LIGHT FIXTURE LOCATIONS TAKE PRECEDENCE. FIELD VERIFY STRUCTURAL CONDITIONS BEFORE FABRICATION OF DUCTWORK.
16. FLEXIBLE DUCT CONNECTIONS TO NEW OR RELOCATED DIFFUSERS AND GRILLES ARE PROHIBITED.
17. PROVIDE VOLUME CONTROL DAMPERS IN DUCTS TO DIFFUSERS. INSTALL DAMPERS A MINIMUM OF 24" AWAY FROM DIFFUSERS AND A MAXIMUM OF 60" ABOVE THE CEILINGS FOR ACCESSIBILITY UNLESS SHOWN OTHERWISE ON DRAWINGS. PROVIDE ACCESS PANELS WHERE DAMPERS MUST BE INSTALLED ABOVE NON-ACCESSIBLE CEILINGS. REFER TO VOLUME/BALANCE DAMPER SCHEDULE FOR APPROVED MANUFACTURERS.
18. DUCT SIZES SHOWN ON DRAWINGS ARE NET FREE AREA. CONTRACTOR'S OPTION, ROUND DUCTWORK OF EQUIVALENT FREE AREA MAY BE USED IN LIEU OF RECTANGULAR. INCREASE RECTANGULAR SHEET METAL SIZE AS REQUIRED FOR LINER. REFER TO SPECIFICATIONS FOR THE INSULATION THICKNESS.
19. DUCT SUPPORT AND GRILLE DETAIL IS APPLICABLE THROUGHOUT THE STORE. DO NOT USE FASTENERS THAT PENETRATE ROOF DECK.
20. TYPICAL BRANCH DUCT FITTING DETAIL IS APPLICABLE THROUGHOUT THE STORE.
21. PROVIDE SEISMIC BRACING BASED ON APPROPRIATE SEISMIC ZONE REQUIREMENTS PER SMACNA PUBLISHED SEISMIC DETAILS, LOCAL AND NATIONAL CODES. CONTRACTOR'S RESPONSIBILITY INCLUDES STRUCTURAL ENGINEER'S CERTIFICATION ON DETAILS SUBMITTED FOR PERMITTING.
22. BUILDING COMPONENTS ABANDONED BY THE SCOPE OF WORK SHALL BE SECURED TO PREVENT FALLING, LOOSENING, OR CREATING DAMAGE OF ANY KIND IN THE FUTURE.
23. INSTALL ASSET TAGS ON ALL NEW RTUS, AHUS, EXHAUST FANS, AND SPLIT SYSTEMS AND COMPLETE THE DATA COLLECTION INFORMATION. DELETE DEMOED ASSETS FROM ASSET TAGGING APPLICATION. REFER TO SPECIFICATIONS.

REFER TO MANUFACTURER'S INSTALLATION INSTRUCTION FOR RTU AND AHU RIGGING SPECIFICATIONS AND DETAILS.

SEISMIC NOTES

REFER TO SEISMIC RESTRAINT SHEET SR1 FOR INSTALLATION DETAILS. REFER TO THE SPECIFICATIONS FOR FURTHER INFORMATION.

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELF WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

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NORTH CAROLINA PROFESSIONAL SEAL 050536 ENGINEER JARROD M. EASTERWOOD
7/1/2025

OVERALL MECHANICAL PLAN

SHEET: M1

JARROD M. EASTERWOOD

KEYNOTES

15.705	CONNECT TO EXISTING SUPPLY/RETURN DUCTWORK INDICATED.
15.711	REFER TO ARCHITECTURAL ROOF PLAN AND STRUCTURAL PLANS FOR DETAILS OF ROOF CURB INSTALLATION.
15.713	REBALANCE AIR DEVICE TO CFM SHOWN. REDISTRIBUTE AIR FROM EXISTING DUCTWORK TO MATCH NEW CFM REQUIREMENTS.
15.722	COORDINATE DUCT PENETRATIONS THROUGH ROOF, AND ROUTING OF DUCTWORK WITH CONDUITS, FIRE PROTECTION PIPING, LIGHTS AND STRUCTURE.
15.729	INSTALL ROOF CURB PER ROOF CURB BOX NOTE.

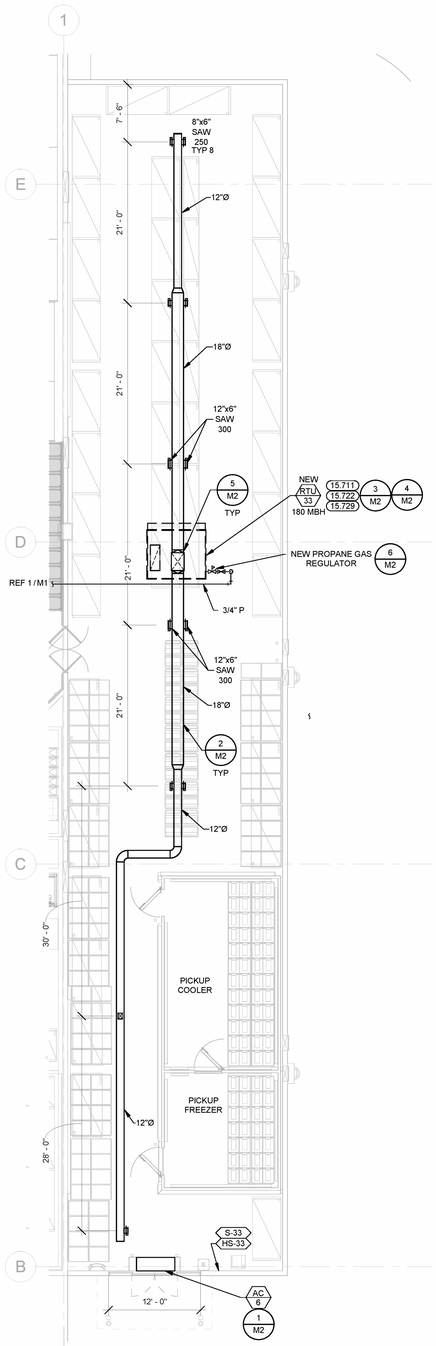
PROPANE GAS PIPING NOTES

1. CONTRACTOR SHALL COORDINATE ALL DETAILS OF THE PROPANE GAS PIPING SYSTEM WITH THE LOCAL PROPANE GAS COMPANY. THIS INCLUDES, BUT IS NOT LIMITED TO, THE GAS REGULATOR AT THE TANK, AND THE LOCATION OF THE PROPANE GAS STORAGE TANKS, AND PIPING DOWNSTREAM OF THE GAS REGULATOR AT THE TANK TO EACH GAS-FIRED APPLIANCE. CONTRACTOR SHALL PAY ALL COSTS REQUIRED BY PROPANE SUPPLIER. CONTRACTOR SHALL CONTACT LOCAL PROPANE GAS SUPPLIER FOR SUPPLY PRESSURE AND SIZE AND TYPE OF PIPING AND VALVES REQUIRED FOR CONNECTION TO GAS-FIRED APPLIANCES. SERVICE REGULATOR AT TANK TO BE PROVIDED BY PROPANE GAS SUPPLIER. CONTRACTOR SHALL VERIFY CORRECT PROPANE SUPPLY PRESSURE DOWNSTREAM OF SERVICE REGULATOR AFTER PROPANE SUPPLIER COMPLETES INSTALLATION. THE PROPANE GAS DEMAND SHOWN IN MBH IS BASED ON A HEATING VALUE OF 2500 BTU (2.5 MBH) PER CUBIC FOOT, A SPECIFIC GRAVITY OF 1.52, AND ON PRIMARY EQUIPMENT SPECIFICATIONS IN SCHEDULES. PROPANE GAS PIPING SIZES SHALL BE AS NOTED ON PLANS.
2. PROVIDE NEW PROPANE GAS PIPING FOR NEW EQUIPMENT SIZED AS INDICATED FOR 5 PSIG WITH PRESSURE DROP TO 1.5 PSIG. AT EQUIPMENT REGULATOR. CONNECT AT EXISTING PROPANE GAS PIPING OF EQUAL OR LARGER SIZE, AND PROVIDE PRESSURE REGULATOR (SET TO EQUIPMENT DELIVERY PRESSURE), VALVES, AND ACCESSORIES PER THE SPECIFICATIONS & LOCAL CODES.
3. LOCATE SHUTOFF VALVE A MAXIMUM OF 6'-0" FROM EQUIPMENT. WHEN A REGULATOR IS USED, LOCATE GAS REGULATOR VENT A MINIMUM OF 3'-0" FROM ROOFTOP EQUIPMENT.
4. GAS AND CONDENSATE PIPING SHALL BE MINIMUM 5'-0" CLEAR FOR ROOF TOP EQUIPMENT MAINTENANCE ACCESS.
5. PROVIDE START-UP ASSISTANCE FOR ALL GAS-FIRED EQUIPMENT INCLUDING BUT NOT LIMITED TO ROOF TOP UNITS, RADIANT HEATERS, UNIT HEATERS, AND COOKING EQUIPMENT. COORDINATE ADJUSTMENT OF REGULATORS WITH SET-UP PERSONNEL TO ENSURE CORRECT GAS FLOW PRESSURES FOR PROPER OPERATION OF ALL EQUIPMENT.

ROOF CURB NOTE

OWNER SHALL FURNISH AND THE CONTRACTOR SHALL INSTALL ROOF CURB (AS MANUFACTURED BY AES INDUSTRIES INC., CONTACT CHAD BURT 1-800.786-9402) FOR NEW ROOF TOP UNITS. ROOF CURB SELECTION AND INSTALLATION SHALL BE ADJUSTED FOR ROOF SLOPE TO NOT EXCEED UNIT MANUFACTURER'S MAXIMUM SLOPE AND ADEQUATE CONDENSATE DRAINAGE. ROUTE NEW CONDENSATE TO DRAIN AWAY FROM UNIT DOWN SIDE SLOPE OF ROOF.

SEE SPECIFICATION FOR ADDITIONAL INFORMATION.

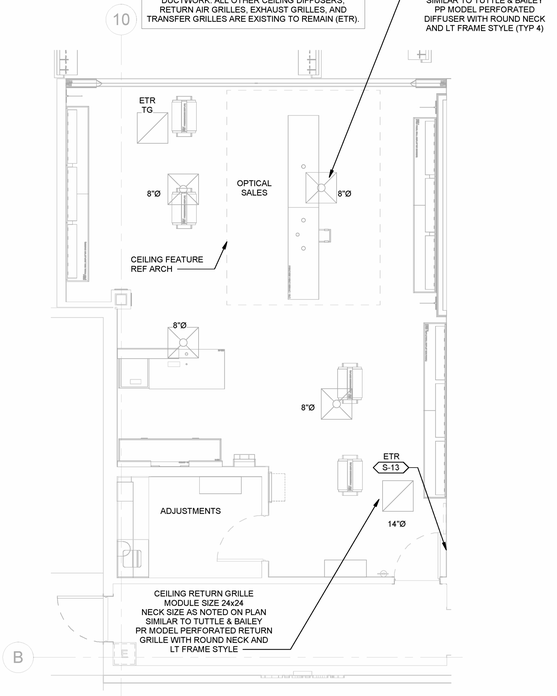


3 PICKUP MECHANICAL PLAN
1/8" = 1'-0"

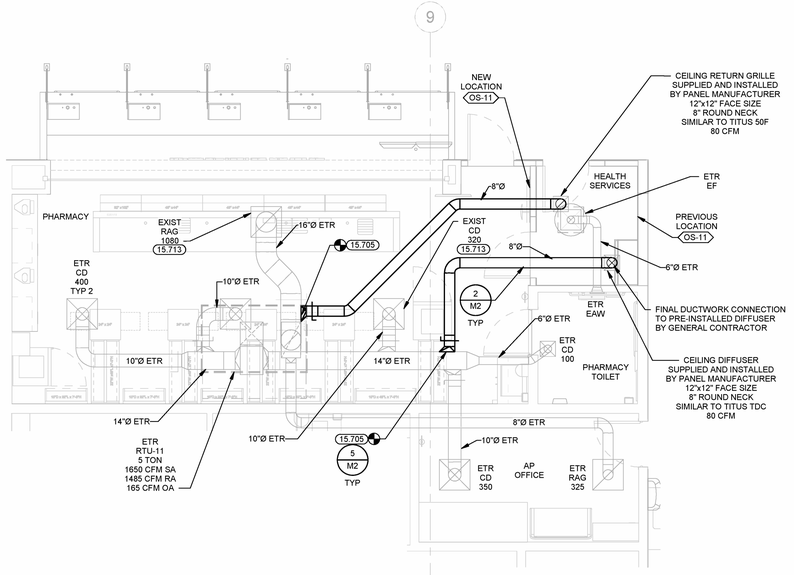
DO NOT TEST AND BALANCE AIR DISTRIBUTION SYSTEM FOR DIFFUSER AND GRILLE REPLACEMENTS WITHOUT AIR BALANCE MODIFICATIONS.

CONTRACTOR TO FIELD VERIFY SITE SPECIFIC CONDITIONS AT THE OPTICAL SALES AREA CEILING. IF THERE IS A CONFLICT IN LOCATING THE CEILING FEATURE WHILE MAINTAINING THE EXISTING SPRINKLER AND DUCTWORK LAYOUT, THE CONTRACTOR SHALL CONTACT THE ARCHITECT OF RECORD THROUGH THE RFI PROCESS.

CONTRACTOR TO REPLACE ALL CEILING DIFFUSERS AND RETURN AIR GRILLES AT VISION CENTER OPTICAL SALES. CONNECT TO EXISTING DUCTWORK. ALL OTHER CEILING DIFFUSERS, RETURN AIR GRILLES, EXHAUST GRILLES, AND TRANSFER GRILLES ARE EXISTING TO REMAIN (ETR).



2 VISION CENTER MECHANICAL PLAN
1/4" = 1'-0"



1 PHARMACY MECHANICAL PLAN
1/4" = 1'-0"

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELF WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

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01/07/2025

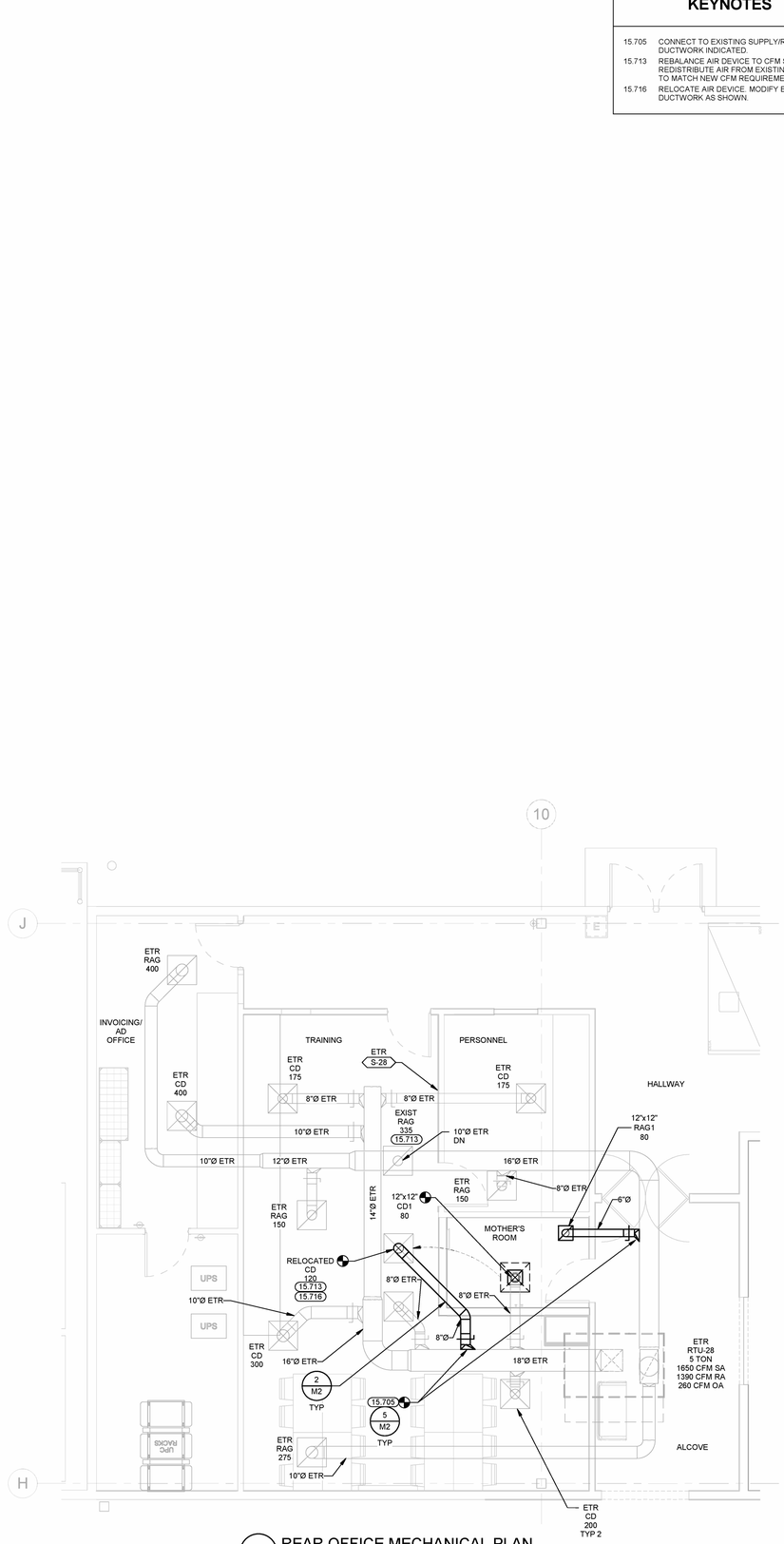
ENLARGED MECHANICAL PLANS

SHEET: M1.1

JARROD M. EASTERWOOD

KEYNOTES

15.705	CONNECT TO EXISTING SUPPLY/RETURN DUCTWORK INDICATED.
15.713	REBALANCE AIR DEVICE TO CFM SHOWN. REDISTRIBUTE AIR FROM EXISTING DUCTWORK TO MATCH NEW CFM REQUIREMENTS.
15.716	RELOCATE AIR DEVICE. MODIFY EXISTING DUCTWORK AS SHOWN.



1 REAR OFFICE MECHANICAL PLAN
1/4" = 1'-0"

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

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THE DRAWING SHALL BE USED FOR MARKUP AT JOB SITE.
CONTRACTOR SHALL WORK IN STRICT ACCORDANCE WITH THESE DRAWINGS AND SPECIFICATIONS. ANY WORK NOT SUITABLE FOR USE ON A CURRENT CONSTRUCTION PROJECT. ANY REUSE OF THIS DRAWING FOR REFERENCE OR OTHERWISE WITHOUT THE EXPRESS REQUIRED THE SERVICES OF PROPERLY LICENSED ARCHITECT OR ENGINEER. REPRODUCTION OF THIS DRAWING FOR UNAUTHORIZED USE IS PROHIBITED AND MAY BE CONTRARY TO THE LAW.

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NORTH CAROLINA PROFESSIONAL SEAL 050536 ENGINEER JARROD M. EASTERWOOD
01/07/2025

ENLARGED MECHANICAL PLANS

SHEET
M1.2

JARROD M. EASTERWOOD

MECHANICAL SYMBOLS

18"x12"	RECTANGULAR DUCT 18" WIDE BY 12" DEEP
12" Ø	12" DIAMETER ROUND DUCT
	SUPPLY DUCT IN SECTION
	RETURN OR EXHAUST DUCT IN SECTION
	ELBOW WITH TURNING VANES
	TEE WITH TURNING VANES
	RADIUS ELBOW
	HIGH EFFICIENCY TAKE-OFF
	VOLUME/BALANCE DAMPER
	SUPPLY AIR DIFFUSER WITH ROUND SUPPLY DUCT
	RETURN OR EXHAUST AIR DIFFUSER WITH ROUND DUCT
24"x24" CD 450	BRANCH DUCT AND/OR NECK SIZE DIFFUSER OR GRILLE TYPE CFM
T	THERMOSTAT
S	TIMER
S-X	TEMP SENSOR
	CONNECT TO EXISTING
ETR	EXISTING TO REMAIN
EXIST	EXISTING WITH MODIFICATIONS
FD	FIRE DAMPER

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JOB NUMBER: 245001270 | PROTO: 182

ISSUE BLOCK

AIR DEVICE SCHEDULE

MARK	SERVICE	MANUFACTURER	MODEL	STYLE	FRAME TYPE	FACE SIZE	NOTES
CD1	SUPPLY AIR	TUTTLE & BAILEY E.H.PRICE CARNES	M SMD SKFA	ROUND NECK CEILING DIFFUSER	SURFACE MOUNT	REFER TO DRAWINGS	B, E, I, L, M, N
RAG1	RETURN AIR	TUTTLE & BAILEY E.H.PRICE CARNES	CRE500 80F RAPAF	1/2"x1/2"x1/2" EGGCRATE CEILING GRILLE	SURFACE MOUNT	REFER TO DRAWINGS	C, E, I, M, N
SAW	SUPPLY AIR	TUTTLE & BAILEY E.H.PRICE CARNES	T64 520DS RTDBV	LOUVERED FACE REGISTER	SURFACE MOUNT	REFER TO DRAWINGS	B, E, F, I

VOLUME / BALANCE DAMPER SCHEDULE

TYPE	MANUFACTURER / MODEL
ROUND	AES / WMVCD RUSKIN / WMRS25
RECTANGULAR	AES / AMD4 RUSKIN / WMD25

GENERAL INFORMATION (ALL DEVICES):
1. INSTALL BOTTOM OF WALL MOUNTED AIR DEVICES AT ELEVATION INDICATED ON DRAWINGS UNLESS NOTED OTHERWISE.
2. BALANCE DAMPER CONTACTS:
   AES - (800) 786-0402
   RUSKIN - (816) 761-7476

NOTES:
A. 6-WAY (DB1-DB3) OR 4-WAY (DB4-DB8) THROW UNLESS SHOWN OTHERWISE WITH FLOW ARROWS ON PLAN.
B. ALL STEEL CONSTRUCTION.
C. ALL ALUMINUM CONSTRUCTION.
D. BRANCH DUCT SIZE SHALL BE SAME AS NOTED DIFFUSER NECK SIZE UNLESS NOTED OTHERWISE.
E. STANDARD WHITE FINISH.
F. PROVIDE NECK FOR DUCT CONNECTION.
G. DROP BOX DIFFUSERS FURNISHED BY OWNER INSTALLED BY CONTRACTOR. REFERENCE SPECIFICATIONS.
H. PROVIDE INTEGRAL OPPOSED BLADE DAMPERS ON ALL DRUM LOUVERS ON DROP BOXES WITH BRANCH DUCTWORK ATTACHED TO THE SUPPLY PLENUM.
I. PROVIDE MANUFACTURER'S OPPOSED BLADE DAMPER ACCESSIBLE THROUGH FACE UNLESS NOTED OTHERWISE.
J. PROVIDE WITH FASTENERS FOR COMPLETE (NON-HINGED) REMOVABILITY OF GRILLE. DO NOT PROVIDE FILTER UNLESS NOTED OTHERWISE.
K. TWO 2" SLOTS WITH MANUFACTURER'S INSULATED PLENUM (TUTTLE & BAILEY LP, PRICE JSPI, CARNES CXPC.)
L. REFER TO PLANS FOR DIRECTIONAL ARROWS INDICATING CFM THROWS FOR PROPER GRILLE SELECTION. NO DIRECTIONAL ARROWS INDICATES 4-WAY THROW.
M. PROVIDE ROUND NECK ADAPTER
N. PROVIDE CEILING TRANSITION REGISTER BOX WITH 16" OR 24" PLATE FOR ROUGH-IN.

ROOFTOP UNIT SCHEDULE (LENNOX)

ALL PRODUCTS ON THIS SCHEDULE ARE FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR. REFER TO SPECIFICATIONS.

MARK	AREA SERVED	MODEL	NOMINAL CAPACITY (TONS)	SUPPLY FAN						EFFICIENCY			HEATING TYPE			ELECTRICAL					
				CFM	HP	ESP (IN.)	MOTOR TYPE	OPERATION	DCV MIN O/A CFM	MIN O/A CFM	SEER	EER	IEER	GAS HEAT INPUT (MBH)	ELEC HEAT INPUT (KW)	SMOKE DETECTOR LOCATION	VOLTS	MCA	MOCP	SCCR	WEIGHT (LB)	MECH NOTES
RTU 33	PICKUP	SGH120H5MM1G	10	3200	3.00	0.50	BELT DRIVE	AUTO	0	280	N/A	11.6	15.2	180	---	NA	480	22.0	25	35K	1757	E, J, O

GENERAL INFORMATION (ALL UNITS):
1. UNITS ARE 3 PHASE, 60 HERTZ. UNITS MUST BE UL OR ETL AS WELL AS AGA APPROVED. UNITS BELOW 225 MBH MINIMUM AFUE: 80%, UNITS EQUAL TO OR GREATER THAN 225 MBH MINIMUM AFUE: 81%.
2. OUTSIDE AIR IS CONDITIONED THROUGH THE AIR HANDLING UNITS FOR THE SALES FLOOR AREA AND THROUGH THE ROOFTOP UNITS AS SCHEDULED ABOVE IN ACCORDANCE WITH ASHRAE 62.1.
3. FURNISHED WITH FACTORY INSTALLED SMOKE DETECTORS. SMOKE DETECTORS ARE NOT REQUIRED IN UNITS SUPPLYING OVER 2000 CFM THAT ARE NOT CAPABLE OF SPREADING SMOKE BEYOND THE ENCLOSING WALLS, FLOORS AND CEILINGS FOR THE ROOM OR SPACE IN WHICH THE SMOKE IS GENERATED PER IMC SECTION 606.2.
4. REFRIGERANT R-454B.
5. FURNISHED WITH FACTORY INSTALLED HACR-TYPE RATED CIRCUIT BREAKER.
6. SINGLE POINT POWER AND GAS ENTRY CONNECTIONS.
7. ROOF CURB AND ANCHOR BRACKETS FURNISHED BY OWNER, INSTALLED BY CONTRACTOR. REFER TO SPECIFICATIONS AND HVAC RESTRAINT BRACKET DETAIL.
   NEW AND RETRO CURB WEIGHTS (LBS): 3 & 5 TON = 225, 10 TON = 235, 20 TON = 360. CURB ADAPTER WEIGHTS (LBS): 3 & 5 TON = 250, 10 TON = 280, 20 TON = 380.
8. FURNISHED WITH FACTORY INSTALLED HIGH PERFORMANCE, FULLY MODULATING ECONOMIZER.
9. FURNISHED WITH FACTORY INSTALLED CONVENIENCE RECEPTACLE.
10. MULTI-STAGE COOLING UNITS ARE PROVIDED WITH MULTI-STAGE SUPPLY AIR VOLUME (MSAV) TECHNOLOGY FOR PART-LOAD OPERATION ENERGY SAVINGS.
11. FURNISHED WITH 2 INCH, MERV 8 (MINIMUM EFFICIENCY REPORTING VALUE) AIR FILTER. CONTRACTOR TO COORDINATE WITH FILTER COMPANY FOR INSTALLATION OF MERV 8 FILTER AND FRAME PRIOR TO TEST AND BALANCE. REFER TO FILTER FRAME BOX NOTE FOR ADDITIONAL INFO.
12. FURNISHED WITH FACTORY INSTALLED RTU CONTROLLER. REFER TO SCHEDULE NOTES FOR BAS VENDOR SPECIFIC REQUIREMENTS.
13. FURNISHED WITH TEMPERATURE SENSOR (94L60) UNLESS AVERAGING OR OVERRIDE SENSOR IS SPECIFIED. REFER TO SCHEDULE NOTES FOR UNIT-SPECIFIC SENSORS.

NOTES:
A. DEMAND CONTROL VENTILATION (INDOOR AIR QUALITY) UNIT FURNISHED WITH CO2 SENSOR (23V86). CO2 SENSOR INSTALLED BY BAS CONTRACTOR. REFER TO BAS SHEETS.
   EXTERNALLY LABEL UNIT "IAQ" IN 3" RED LETTERS, REFER TO SPECIFICATIONS.
B. DEMAND CONTROL VENTILATION (VENTILATION RESET) UNIT FURNISHED WITH CO2 SENSOR (23V86). CO2 SENSOR INSTALLED BY BAS CONTRACTOR. REFER TO BAS SHEETS.
C. FURNISHED WITH OVERRIDE TEMPERATURE SENSOR (56L80). INSTALLED BY BAS CONTRACTOR.
D. FURNISHED WITH AVERAGING TEMPERATURE KIT (23M20). INSTALLED BY BAS CONTRACTOR.
E. FURNISHED WITH HUMIDITY SENSOR (17M50) AND FACTORY INSTALLED HUMIDITROL REHEAT COIL. HUMIDITY SENSOR INSTALLED BY BAS CONTRACTOR.
F. FURNISHED WITH INSULATED PANEL BASE AND ALIGNMENT BRACKETS FOR MOUNTING TO EXISTING LENNOX "L" SERIES CURB WITHOUT A CURB ADAPTER.
   CONTRACTOR TO FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.
G. FURNISHED WITH VERTICAL VENT EXTENSION KIT WITH VENT CAP LOCATED JUST ABOVE TOP SURFACE OF UNIT.
H. FURNISHED WITH KEY ACTIVATED REMOTE SMOKE DETECTOR TEST STATION INSTALLED BY MECHANICAL CONTRACTOR.
I. FURNISHED WITH FACTORY INSTALLED BAROMETRIC RELIEF DAMPER.
J. FURNISHED WITH BACNET CARD FOR USE WITH BACNET CAPABLE BAS SYSTEM.
K. FIELD INSTALLED CONTROLS BY CONTRACTOR. REFER TO BAS SHEETS FOR ADDITIONAL INFORMATION.
L. FURNISHED WITH FACTORY APPLIED CORROSION INHIBITING TREATMENT TO CONDENSER AND EVAPORATOR COILS AND PAINTED CABINET INTERIOR (WITHIN 1 MILE).
M. FURNISHED WITH FACTORY APPLIED CORROSION INHIBITING TREATMENT TO CONDENSER COIL (1-5 MILES).
N. FURNISHED WITH FACTORY INSTALLED CONDENSATE DRAIN PAN FLOAT SWITCH KIT.
O. FURNISHED WITH PROPANE CONVERSION KIT. INSTALLED BY MECHANICAL CONTRACTOR.
P. FURNISHED WITH FACTORY INSTALLED STAINLESS STEEL HEAT EXCHANGER.

ROOFTOP EQUIPMENT PIPING RUNOUT

EQUIPMENT	GAS PIPE SIZE DOWNSTREAM OF REGULATOR
10 TON RTU	3/4"

GENERAL INFORMATION:
1. RUNOUT SIZES ARE FOR INDIVIDUAL PIECES OF EQUIPMENT. REFER TO ROOF PLAN FOR COMBINED LINES SIZES.
2. CONDENSATE PIPE SIZE IS DOWNSTREAM OF 4" REDUCER. REFERENCE CONDENSATE DRAIN/SUPPORT DETAIL.

AIR CURTAIN SCHEDULE

MARK	AREA SERVED	MANUFACTURER	MODEL	WEIGHT (LBS)	FAN MOTOR				ELECTRICAL DATA			NOTES
					QTY	HP	VOLTS	PH	FLA	MCA	MOCP	
AC 6	PICKUP	BERNER POWERED AIRE	CHD10-1060A ETA 1-60	117	1	0.75	120	1	8.0	10.0	15	A, H, I, K, M

GENERAL INFORMATION (ALL DEVICES):
1. PROVIDE A DEDICATED ELECTRICAL CIRCUIT FOR EACH AIR CURTAIN WHEN MULTIPLE AIR CURTAINS ARE INSTALLED AT A SINGLE OPENING.

NOTES:
A. FURNISH WITH FACTORY MOUNTED NON-FUSED TOGGLE DISCONNECT SWITCH LOCATED ON TOP OF AIR CURTAIN.
B. FURNISH WITH MANUFACTURER'S 120V PHOTOELECTRIC SENSOR SWITCH, SENSOR REFLECTOR, AND REQUIRED ACCESSORIES TO ENERGIZE ALL AIR CURTAINS AT EACH DOOR ON HIGH SPEED WHEN DOOR OPENS AND DE-ENERGIZE AIR CURTAINS WHEN DOOR CLOSES.
C. UNIT SHALL BE TOP MOUNTED. FOR CURTAIN INSTALLATIONS NOT DETAILED ON ARCHITECTURAL DRAWINGS, SUSPEND CURTAINS FROM UNISTRUT INSTALLED BELOW DOOR TRACK AND SPANNING ENTIRE DOOR OPENING AS REQUIRED. SUPPORT UNISTRUT FROM STRUCTURE.
D. AS REQUIRED, ALL OPENINGS WITH TWO AIR CURTAINS TO BE FURNISHED WITH A FIELD MOUNTED AND WIRED RELAY TO ALLOW FOR ONE SWITCH TO ACTIVATE TWO AIR CURTAINS.
E. BERNER UNIT SHALL BE FURNISHED WITH FACTORY INSTALLED SINGLE PHASE CONTROL PANEL, LEFT END.
F. BERNER UNIT SHALL BE FURNISHED WITH TANDEM PERFORMANCE KITS.
G. BERNER UNIT SHALL BE FURNISHED WITH FACTORY INSTALLED INTELLISWITCH DIGITAL CONTROLLER.
H. FURNISH WITH A FIELD MOUNTED AND WIRED 24V MAGNETIC LIMIT DOOR SWITCH AND TIME DELAY TO ENERGIZE AIR CURTAIN WHEN DOOR OPENS AND CONTINUE OPERATION FOR 60 SECONDS AFTER DOOR CLOSES.
I. FURNISH WITH MANUFACTURER'S WALL MOUNTING PLATE FOR INSTALLATION ABOVE DOOR OPENING WITH BOTTOM OF UNIT FLUSH WITH TOP OF DOOR. IF AIR CURTAIN MUST BE OFFSET TO CLEAR DOOR HARDWARE OR OTHER OBSTRUCTION, UNIT SHALL BE TOP MOUNTED AND SUPPORTED FROM STRUCTURE. REFERENCE MECHANICAL AIR CURTAIN INSTALLATION DETAIL.
J. INSTALL BOTTOM OF AIR CURTAIN NO HIGHER THAN 8'-0" AFF. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
K. AIR CURTAIN SHALL BE TESTED IN ACCORDANCE WITH ANSI/AMCA 220.
L. UNITS SHALL BE BLACK IN COLOR.
M. UNIT SHALL BE FURNISHED WITH FACTORY INSTALLED FAN SPEED CONTROL ON BOTTOM OF UNIT WITH TAMPER PROOF COVER.
N. UNIT SHALL BE FIELD WIRED FOR CONTINUOUS OPERATION. REFERENCE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

LP GAS PRESSURE REGULATOR SCHEDULE

MANUFACTURER	CAPACITY RANGE (CFH)	MODEL NUMBER	BODY SIZE INLET-OUTLET (INCHES)	*SPRING RANGE (IN WC)	MINIMUM ORIFICE (IN)	NOTES
DRESSER UTILITIES	0-328	B-42R	3/4-1 1/4	8-12	1/2 x 9/16	A, C, D
	329-938	B-34SR	1 1/2	8.5-12.5	5/8 x 3/4	
	929-2063	B-34R	1 1/2	6.5-13.0	7/8 x 1	
MAXITROL	0-425	325-5L	3/4-1	7-11	N/A	B, C
	426-1250	325-7AL	1 1/4-1 1/2	7-11	N/A	
MAXITROL	0-320	325-5L48	3/4	7-11	N/A	B, D
	321-465	325-5L600	1	7-11	N/A	
	466-1250	325-7AL201D	1 1/4-1 1/2	7-11	N/A	

GENERAL INFORMATION (ALL REGULATORS):
1. MINIMUM INLET PRESSURE, 1.5 PSI; SET OUTLET PRESSURE TO 11 INCHES WATER COLUMN UNLESS NOTED OTHERWISE.
2. VERIFY CAPACITY SHOWN ON PLANS WITH CAPACITY SCHEDULED FOR REGULATOR MANUFACTURER BEFORE ORDERING. CAPACITIES VARY BETWEEN MANUFACTURERS.
3. REGULATORS MUST BE ANSI Z21.80/CSA 6.22 APPROVED.

NOTES:
A. FURNISH WITH INTERNAL RELIEF VALVE.
B. FURNISH WITH VENT PROTECTOR FOR OUTDOOR USE.
C. APPLICABLE FOR 2PSIG GAS SYSTEMS.
D. APPLICABLE FOR 5PSIG GAS SYSTEMS.

CONTACT INFORMATION: ITRON-MIDWEST GAS EQUIPMENT, INC: 1-877-962-8808; MAXITROL: 1-248-356-1400.

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DOCUMENT DATE:	01/08/25

NORTH CAROLINA PROFESSIONAL SEAL 050536 ENGINEER JARROD M. EASTERWOOD
01/07/2025

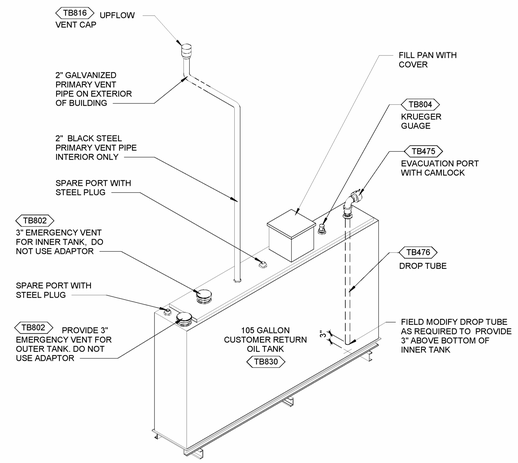
MECHANICAL SCHEDULES

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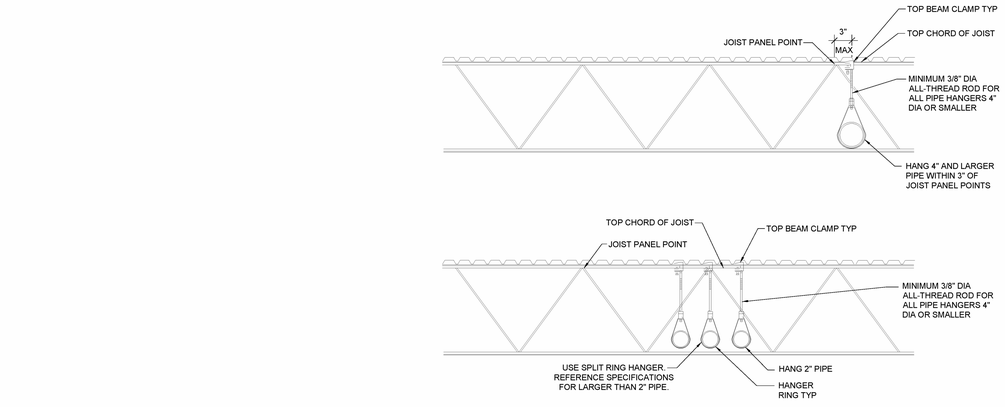
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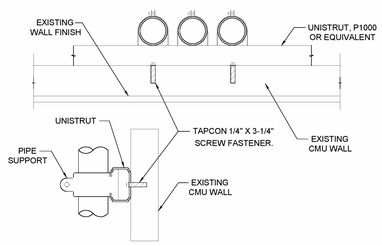
KEYNOTES

15.406	MAKE ALL NECESSARY DISCONNECTS AND RECONNECTS OF PLUMBING FIXTURES BEING RELOCATED OR NEW. PROVIDE CONTINUOUS SEALANT ALONG THE EDGES OF RECONNECTED FIXTURES.
15.460	TRANSITION FROM BLACK STEEL TO GALVANIZED STEEL VENT PIPING AT AND INCLUDING ROOF/WALL PENETRATION. INSTALL UPFLOW VENT CAP. DO NOT MANIFOLD VENT WITH OTHER TANK VENTS OR PLUMBING VENTS.
15.464	PROVIDE A MINIMUM OF 3" INSPECTION SPACE BETWEEN ALL WALLS, COLUMNS, TANK AND RAILINGS.
15.466	SLOPE VENT PIPING BACK TO TANK AT 1/8" PER FOOT.
15.467	INSTALL BLACK STEEL VENT PIPING INSIDE BUILDING. REF SPECIFICATIONS.
15.479	ROUTE VENT PIPING THROUGH WALL. SEAL OPENING WITH FOAM SEALANT. INSTALL ESCUTCHEON BOTH SIDES OF WALL.
15.480	VENT TERMINATION SHALL BE 12 FT MINIMUM ABOVE FINISHED GRADE, MINIMUM 5 FT FROM ANY BUILDING OPENINGS, AND AT LEAST 15 FT FROM ANY BUILDING VENTILATION OUTDOOR AIR INTAKE.



3 105 GALLON CUSTOMER RETURN OIL TANK
NTS



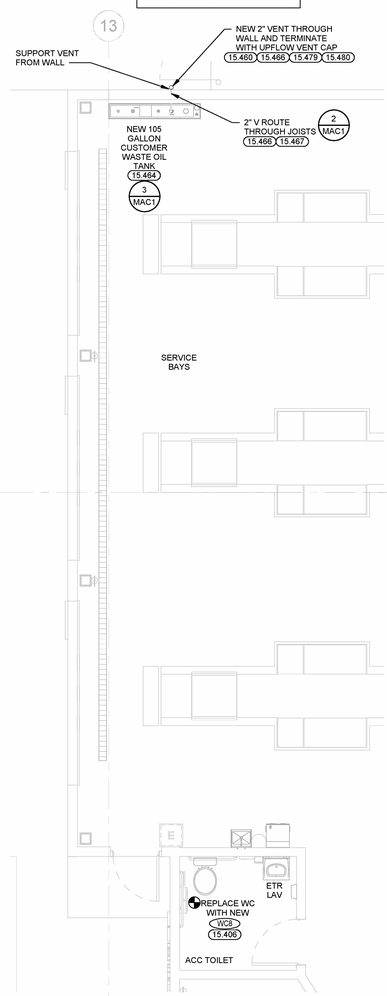


CMU WALL

PIPE SUPPORT

2 VENT PIPING SUPPORT
NTS

CONTRACTOR SHALL ENSURE THAT VENT PIPING THRU WALL DOES NOT PENETRATE A GROUTED CMU CELL



1 ACC TIRE AND LUBE PLUMBING PLAN
1/4" = 1'-0"

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELF WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

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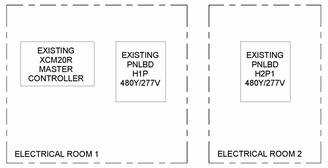
AUTO CENTER MECHANICAL PLANS

SHEET: MAC1

JARROD M. EASTERWOOD

CONTROL INFORMATION

DESCRIPTION	TYPE	PANEL/CCT	BRKR POLES	BRKR TYPE	ON/OFF OUTPUT	ON/OFF PROGRAMMING
SUSPENDED FEATURE LIGHTING	POWER-SWITCHING	H1P-26	1	ETR	AVAILABLE OPEN OUTPUT	COORDINATE WITH STORE MANAGER
SUSPENDED FEATURE APPAREL LIGHTING	POWER-SWITCHING	H2P1-25	1	ETR	AVAILABLE OPEN OUTPUT	COORDINATE WITH STORE MANAGER
SUSPENDED PRODUCE LIGHTING #1	POWER-SWITCHING	H2P1-15	1	ETR	AVAILABLE OPEN OUTPUT	COORDINATE WITH STORE MANAGER
SUSPENDED PRODUCE LIGHTING #2	POWER-SWITCHING	H2P1-17	1	ETR	AVAILABLE OPEN OUTPUT	COORDINATE WITH STORE MANAGER



PROVIDE CONDUIT, FITTINGS, WIRE-TIES, CONNECTORS, LABELS, AND ANY OTHER MISC. PARTS NEEDED TO INSTALL AND START THE SYSTEM.

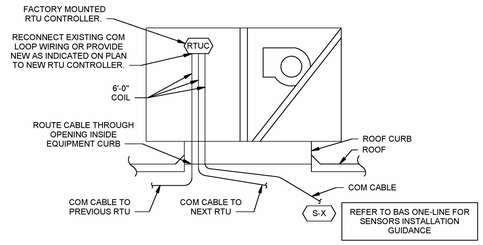
OWNER WILL FURNISH ALL MAJOR E.M.S. DEVICES (INCLUDING 24 VOLT TRANSFORMERS AND RELAYS).

WIRE LEGEND

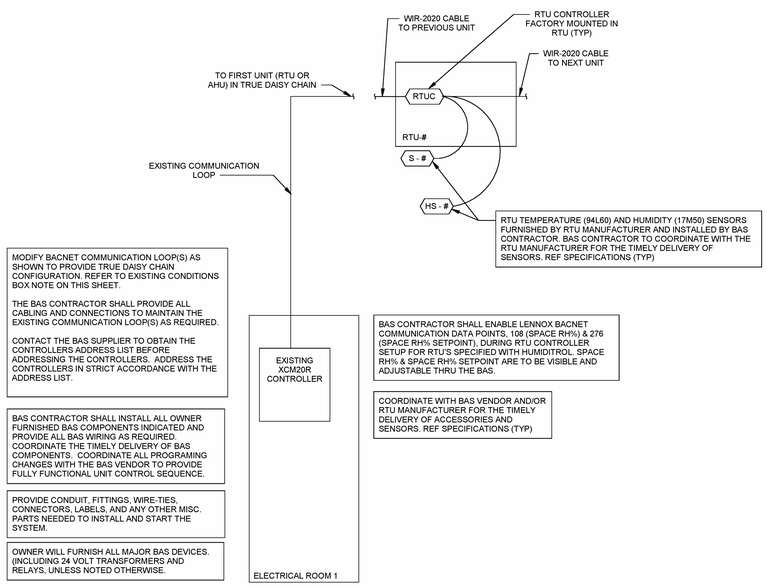
WIR-1010 (TAN CABLE 18-2, 20-2 TWISTED PAIR)
WIR-2020 (BLUE CABLE 22-2 TWISTED PAIR)
BELDEN 8719 (16-2 TWISTED PAIR)
BELDEN 8761 (22-2 TWISTED PAIR)
BELDEN 8771 (22-3 TWISTED PAIR)
BELDEN 9418 (18-4 W/DRAIN GROUND)
BELDEN 1120A (18-3 TWISTED PAIR)

NOTES:
1. ALL CABLE WIR-2020 UNLESS NOTED OTHERWISE.
2. ALL CABLE FURNISHED AND INSTALLED BY BAS CONTRACTOR.

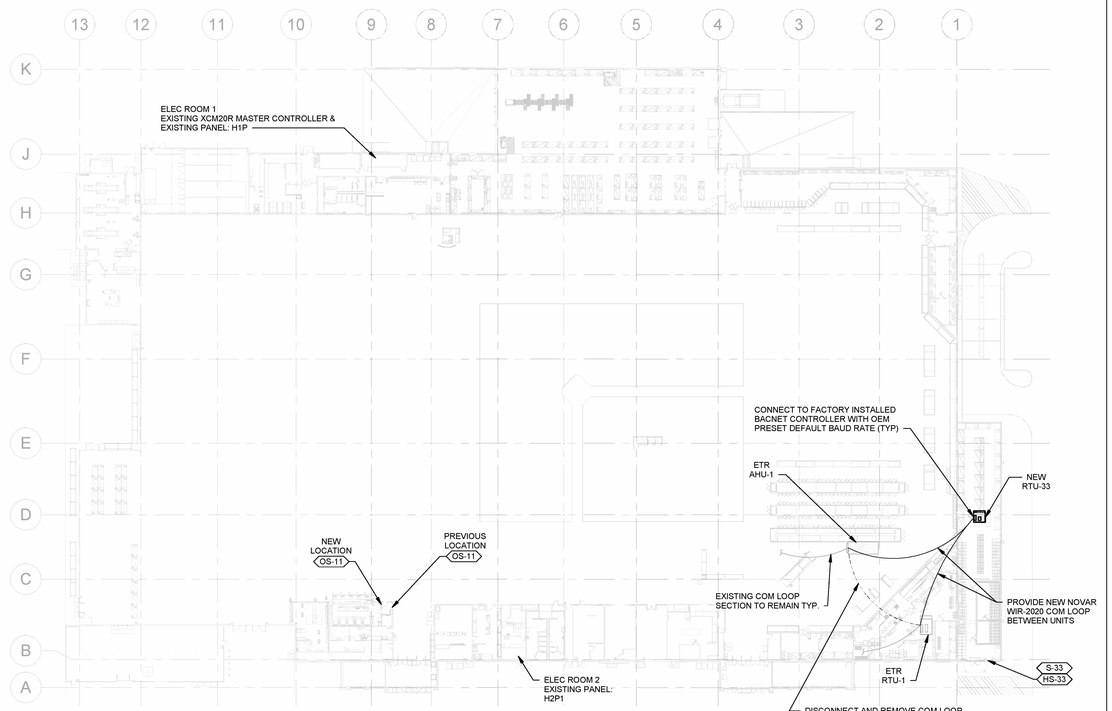
4 PARTIAL BAS ONE-LINE
NTS



3 RTU SENSOR & WIRE DETAIL - RTUC
NTS



2 RTU/AHU ADDITION/REPLACEMENT PARTIAL BAS ONE-LINE (NOVAR)
NTS



1 BUILDING AUTOMATION PLAN
1" = 40'-0"

BAS SYMBOLS

AHUC	AHU CONTROLLER
AHUS#	AHU TEM/RH SENSOR
ALS	ANALOG LIGHT SENSOR
ETM	ELECTRONIC THERMOSTAT MODULE
IDS	INDOOR DEWPOINT SENSOR
IHS	INDOOR HUMIDITY SENSOR
ITS	INDOOR TEMPERATURE SENSOR
ODS	OUTDOOR DEWPOINT SENSOR
OTS	OUTDOOR TEMPERATURE SENSOR
OS-X	OVERRIDE TEMPERATURE SENSOR
S-X	WALL TEMPERATURE SENSOR
_S#	UNIT HEATER TEMPERATURE SENSOR
HS-X	WALL HUMIDITY SENSOR
RTUC	ROOFTOP UNIT CONTROLLER
EICB	EQUIPMENT INTERFACE COMM BOARD
BAP	BUILDING ALARM PANEL
CO2	CARBON DIOXIDE SENSOR
FDI	FLUORESCENT DIMMER INTERFACE
HIR	HUMIDITY INTERFACE RELAY
IAO	INTERFACE ANALOG OUTPUT
IFP	INTERFACE PANEL
IOM	INPUT/OUTPUT MODULE
IR	INTERFACE RELAY
C#	CONTACTOR
MINio	AHU INTERFACE AND/OR I/O MODULE
PLM	PHASE LOSS MONITOR
PSOP	POWER SWITCHING OVERRIDE PANEL
PSP	POWER SWITCHING PANEL
ROP	REMOTE OVERRIDE PANEL
ELDP	ECLIPSE LIGHT DIMMING PANEL
UCM	UNITARY CONTROL MODULE
ES1	BAS CONTROLLER
LINGO EP/2	BAS CONTROLLER
LINGO XE	BAS CONTROLLER
LCD	NOVAR LCD DISPLAY
Ⓢ	MOMENTARY PUSH BUTTON SWITCH
———	NEW EQUIPMENT
———	EXISTING EQUIPMENT
— — —	FACTORY INSTALLED EQUIPMENT
– – – –	EQUIPMENT TO BE DEMOLISHED

GENERAL BAS NOTES

1. TEMPERATURE, HUMIDITY, AND CO2 SENSOR MOUNTING: PROVIDE 1/2" CONDUIT AND INSTALL BAS CABLE FROM SENSOR TO CONTROL MODULE. MOUNT SENSOR ON BOX. ALL SENSORS TO BE MOUNTED AT +84" UNLESS NOTED OTHERWISE. SENSORS ON SALES FLOOR SHALL BE INSTALLED ON THE BACK SIDE OF COLUMN. LABEL SENSOR PER SPECIFICATION AND NUMBER SENSOR TO CORRESPOND WITH MECHANICAL EQUIPMENT IT CONTROLS. DO NOT INSTALL SENSORS IN HVAC SUPPLY AIR PATH OR IN DIRECT SUNLIGHT. REF MECHANICAL DRAWINGS FOR EXACT LOCATIONS.
   A. GYPSUM BOARD WALLS: PROVIDE A 4" SQUARE RECESSED BOX WITH A SINGLE GANG PLASTER RING FLUSH MOUNTED VERTICALLY.
   B. BLOCK WALLS AND COLUMNS: PROVIDE A 2"X4" BOX SURFACE MOUNTED VERTICALLY.
   C. INSULATE BEHIND SENSORS MOUNTED ON EXTERIOR WALLS WITH 1/2" POLYSTYRENE SPACER.
   D. MOUNT HUMIDITY AND CO2 SENSORS 6" ABOVE TEMPERATURE SENSORS.
2. TERMINATIONS SHALL BE MADE IN ACCORDANCE WITH BAS SUPPLIER INSTALLATION INSTRUCTIONS. NO FOIL OR UNUSED WIRE(S) SHALL BE EXPOSED AFTER APPLICATION OF HEAT SHRINK.
3. CABLE: PROVIDE RTU AND/OR AHU COMMUNICATION CABLE ACCORDING TO DRAWINGS. NO DEVIATION FROM DRAWINGS WILL BE ACCEPTED. CABLES SHALL HAVE EACH END LABELED INDICATING WHERE THE OPPOSITE END TERMINATES. CABLE SHALL BE INSTALLED IN CONDUIT OR CABLE TRAY IN FINISHED AREAS OF BUILDING. EXCEPT HVAC CABLE IN SALES FLOOR AREA AT BAR JOISTS.
4. MINOR CHANGES IN MATERIALS OR TERMINATION POINTS SHALL NOT INCREASE CONTRACT COST.
5. ROUTE BAS CONDUITS IN CONCEALED LOCATIONS (IN WALLS, PIPE RACKS AND/OR CHASES). PROVIDE A TRANSITION FROM THE PVC UNDERSLAB BAS CONDUIT TO EMT OR FLEX. BAS CABLES SHALL BE RUN IN CONDUIT FULL LENGTH. BENEATH REFRIGERATED CASES. BAS CABLES AT BAR JOIST LEVEL IN OPEN SALES AREA AND THE STOCKROOM CAN BE EXPOSED.
6. DEMOLITION: COORDINATE WITH ARCHITECTURAL DEMOLITION PLANS THE EXTENT OF BAS DEMOLITION. REMOVE CONDUIT AND WIRES ALL THE WAY BACK TO ORIGINATING JUNCTION BOXES OR DEVICES. DEMOLITION SHALL NOT AFFECT ACTIVE CIRCUITS.
7. BAS CONTRACTOR SHALL PROVIDE ASSISTANCE TO THE BAS SUPPLIER ON PERFORMING EQUIPMENT TESTS ON POWER SWITCHING PANELS AS NECESSARY.
8. DIMMING CONTROL WIRING MUST TERMINATE IN HOME RUN FIXTURES ONLY, AS SHOWN ON EMS PLANS, PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. DO NOT MODIFY THE LISTED FIXTURE'S WIRING HARNESS OR TERMINATE CONTROL WIRING IN THE ADJACENT FIXTURES.
9. DO NOT INSTALL EQUIPMENT OR CONDUITS DIRECTLY UNDER SKYLIGHT WELLS UNLESS INDICATED OTHERWISE ON PLANS.
10. WHERE GROUPED CONDUITS ARE INSTALLED WITHIN THE JOIST SPACE, COORDINATE WITH SPRINKLER CONTRACTOR PRIOR TO INSTALLATION IN ORDER TO MAINTAIN REQUIRED CLEARANCES FROM SPRINKLERS.
11. 24 HOURS PRIOR TO SHUTTING DOWN ANY REFRIGERATION SYSTEMS, HVAC SYSTEMS, OR BUILDING AUTOMATION CONTROLS SYSTEMS, SEND E-MAIL TO NSRM@WALMART.COM. THE E-MAIL SHALL STATE WHAT, WHY, AND WHEN IT IS BEING SHUT DOWN AND HOW LONG IT IS ANTICIPATED TO BE DOWN. THEN SEND A FOLLOW UP E-MAIL TO NSRM@WALMART.COM AFTER THE WORK IS COMPLETE AND THE SYSTEM IS BACK UP AND RUNNING.

NOTE: ALL WORK ON THIS SHEET IS TO BE COMPLETED BY A WALMART APPROVED CONTRACTOR

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELF WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

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STIPULATION FOR REUSE
THE DRAWING SHOWN HEREIN AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF SERVICE, IS AND SHALL REMAIN THE PROPERTY OF MASSA & MARCHESSA, ARCHITECTURE PC. THEY ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY PURPOSE OR PROJECT EXCEPT WITH THE WRITTEN AGREEMENT OF MASSA & MARCHESSA, ARCHITECTURE PC. AND THE PURCHASE OF THE APPROPRIATE LICENSING FEE. ANY UNAUTHORIZED USE OF THESE DRAWINGS WILL BE AT THE SOLE RISK OF THE USER AND WITHOUT LIABILITY TO MASSA & MARCHESSA, ARCHITECTURE PC. ANY SUCH UNAUTHORIZED USE SHALL BE CONSIDERED AN INFRINGEMENT OF COPYRIGHT AND SHALL BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW. THE USER SHALL INDEMNIFY AND HOLD HARMLESS MASSA & MARCHESSA, ARCHITECTURE PC. FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING FROM SUCH UNAUTHORIZED REUSE OF THESE DRAWINGS. ANY MODIFICATION OF THESE DRAWINGS OR REUSE FOR ANOTHER PROJECT WITHOUT THE PRIOR WRITTEN CONSENT OF MASSA & MARCHESSA, ARCHITECTURE PC. IS PROHIBITED AND MAY BE CONTRARY TO THE LAW.

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EXPIRES 6/30/2025

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CAMERON, NC
2800 NC HWY 24-87
STORE NO: 06958.1000
JOB NUMBER: 245001270 | PROTO: | 182

ISSUE BLOCK

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PROTO CYCLE:	07/26/24
DOCUMENT DATE:	01/08/25

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 050536 JARROD M EASTERWOOD
01/07/2025

BUILDING AUTOMATION SYSTEM

novar.

SHEET
BAS1

JARROD M EASTERWOOD

AIR-COOLED ROOFTOP UNITS

RTU CONTROLLER SHALL COMMUNICATE DIRECTLY TO THE BAS

ALL RTU ZONE SETPOINTS FROM THE BAS ARE AS FOLLOWS

ROOFTOP UNIT ZONE SETPOINTS

		OCCUPIED			UNOCCUPIED				
MARK	AREA SERVED	(2) SCHEDULE	COOLING SETPOINT (°F +/-0.5°F)	HEATING SETPOINT (°F +/-0.5°F)	(2) SCHEDULE	COOLING SETPOINT (°F +/-0.5°F)	HEATING SETPOINT (°F +/-0.5°F)	HUMIDITY SETPOINT (RH+/-3%)	NOTES
RTU 33	PICKUP	24/7	76	67	N/A	78	63	50%	

GENERAL INFORMATION (ALL UNITS):
ADJUSTMENTS TO SCHEDULE WILL NEED TO BE MADE IF THE STORE IS NOT OPEN 24/7.

NOTES:
A. SET PHARMACY RTU SENSOR TO ALLOW +/- 3°F USER SPACE SETPOINT ADJUSTMENT.
B. LOCK OUT VESTIBULE HEATING ABOVE 45°F OUTDOOR AMBIENT TEMPERATURE.
C. DO NOT SET VESTIBULE RTU COOLING SETPOINT BELOW 85°F.

DEHUMIDIFICATION OPERATION (FOR UNITS WITH HUMIDITY SETPOINT IN RTU ZONE SETPOINTS SCHEDULE)
WHEN THE SPACE HUMIDITY EXCEEDS SCHEDULED RH SETPOINT, THE OEM CONTROLLER SHALL ENERGIZE DEHUMIDIFICATION MODE. WHEN THE SPACE HUMIDITY DROPS BELOW SCHEDULED RH SETPOINT MINUS INDOOR HUMIDITY DEADBAND, THE OEM CONTROLLER SHALL DE-ENERGIZE DEHUMIDIFICATION.

SUPPLY FAN OPERATION
FOR RTUS IDENTIFIED IN THE MECHANICAL SCHEDULE TO BE "CONT" FAN CONTROL, THE BAS SHALL ENERGIZE THE SUPPLY FAN TO OPERATE CONTINUOUSLY IN OCCUPIED MODE ONLY. IN UNOCCUPIED MODE, THE OEM CONTROLLER SHALL ENERGIZE THE SUPPLY FAN TO OPERATE ONLY ON A CALL FOR HEATING OR COOLING.

FOR RTUS IDENTIFIED IN THE MECHANICAL SCHEDULE TO BE "AUTO" FAN CONTROL, THE OEM CONTROLLER SHALL ENERGIZE THE SUPPLY FAN TO OPERATE ONLY ON A CALL FOR HEATING OR COOLING.

FOR RTUS WITH VARIABLE SPEED FAN OPERATION, THE FAN SPEED SHALL BE CONTROLLED BY THE OEM CONTROLLER BASED ON AMOUNT OF OPERATING COMPRESSOR CAPACITY. VARIABLE SPEED FAN CONTROL SHALL RANGE LINEARLY OR IN DISCRETE STAGES FROM MINIMUM SETTING UP TO DESIGN AIRFLOW AS DETERMINED BY OEM BASED ON COMPRESSOR CAPACITY CONTROL. SUPPLY FAN SPEED DURING ECONOMIZER OPERATION SHALL BE CONTROLLED BY THE OEM CONTROLLER AND SHALL BE AT DESIGN AIRFLOW FROM MECHANICAL SCHEDULE.

OUTSIDE AIR DAMPER OPERATION
WHEN THE SUPPLY FAN IS OFF, THE OUTSIDE AIR DAMPER SHALL GO TO THE 0% OPEN POSITION.

UNLESS OPERATING IN ECONOMIZER MODE, WHEN THE SUPPLY FAN IS ON THE OUTSIDE AIR DAMPER SHALL GO TO THE MINIMUM POSITION SET BY TEST AND BALANCE PER THE OUTSIDE AIR QUANTITY ON THE MECHANICAL SCHEDULE AND IS ADJUSTABLE FROM 0 TO 100%.

ECONOMIZER COOLING OPERATION (ECONOMIZER ENABLED)
UPON AN ECONOMIZER ENABLE SIGNAL FROM THE BAS TO THE OEM CONTROLLER AND A CALL FOR COOLING BASED ON SPACE TEMPERATURE SENSOR INPUT TO THE OEM CONTROLLER, ECONOMIZER COOLING SHALL BE ENERGIZED AND THE OEM CONTROLLER SHALL MODULATE THE OUTSIDE AIR AND RETURN AIR DAMPERS TO MAINTAIN A SUPPLY AIR TEMPERATURE OF 45°F. THE UNIT SHALL RUN IN ECONOMIZER MODE FOR A MINIMUM OF 10 MINUTES AFTER THE ECONOMIZER DAMPER HAS MODULATED TO THE 100% OPEN POSITION BEFORE ENERGIZING THE FIRST STAGE MECHANICAL COOLING. THE OEM CONTROLLER SHALL DISABLE MECHANICAL COOLING WHEN OUTSIDE AIR TEMPERATURE FROM THE OEM OUTDOOR AIR SENSOR IS LESS THAN 45°F.

IF THE SPACE TEMPERATURE INCREASES TO >= 0.5 DEGREE ABOVE SPACE COOLING SETPOINT AND THE ECONOMIZER DAMPER HAS BEEN 100% OPEN FOR A MINIMUM OF 10 MINUTES, THE OEM CONTROLLER SHALL ENERGIZE FIRST STAGE MECHANICAL COOLING AND MAINTAIN THE OUTSIDE AIR DAMPER AT THE 100% OPEN POSITION.

IF THE SPACE TEMPERATURE CONTINUES TO INCREASE AFTER MECHANICAL COOLING IS ENERGIZED, THE OEM CONTROLLER SHALL CONTINUE TO ENERGIZE ADDITIONAL STAGES OF MECHANICAL COOLING IN 0.5°F INCREMENTS OF SPACE TEMPERATURE, IF AVAILABLE.

IF THE CUTOUT TEMPERATURE FOR ANY STAGE OF COOLING IS NOT REACHED WITHIN 15 MINUTES, THE NEXT STAGE OF COOLING SHALL BE ENERGIZED TO SATISFY THE CUTOUT TEMPERATURE.

COOLING STAGES SHALL DE-ENERGIZE AS THE COMPRESSOR CUTOUT TEMPERATURES ARE SATISFIED IN 0.5 DEGREE INCREMENTS.

COOLING STAGES		
STAGE #	ON	OFF
ECONOMIZER	SP+.5	SP-.5
1	SP+1.0	SP
2	SP+1.5	SP+.5
3 & 4	SP+2.0	SP+1.0

COOLING OPERATION (ECONOMIZER DISABLED)
IF THERE IS NO ECONOMIZER ENABLE SIGNAL FROM THE BAS TO THE OEM CONTROLLER AND UPON A CALL FOR COOLING BASED ON THE SPACE TEMPERATURE SENSOR INPUT TO THE OEM CONTROLLER, THE OEM CONTROLLER SHALL ENERGIZE FIRST STAGE MECHANICAL COOLING AND MODULATE THE OUTSIDE AIR DAMPER TO THE MINIMUM POSITION.

IF THE SPACE TEMPERATURE CONTINUES TO INCREASE AFTER MECHANICAL COOLING IS ENERGIZED, THE OEM CONTROLLER SHALL CONTINUE TO ENERGIZE ADDITIONAL STAGES OF MECHANICAL COOLING IN 0.5 DEGREE INCREMENTS OF SPACE TEMPERATURE, IF AVAILABLE.

IF THE CUTOUT TEMPERATURE FOR ANY STAGE OF COOLING IS NOT REACHED WITHIN 15 MINUTES, THE NEXT STAGE OF COOLING SHALL BE ENERGIZED TO SATISFY THE CUTOUT TEMPERATURE.

IF THE SPACE TEMPERATURE CONTINUES TO INCREASE AFTER MECHANICAL COOLING IS ENERGIZED, THE OEM CONTROLLER SHALL CONTINUE TO ENERGIZE ADDITIONAL STAGES OF MECHANICAL COOLING IN 0.5 DEGREE INCREMENTS OF SPACE TEMPERATURE, IF AVAILABLE.

IF THE CUTOUT TEMPERATURE FOR ANY STAGE OF COOLING IS NOT REACHED WITHIN 15 MINUTES, THE NEXT STAGE OF COOLING SHALL BE ENERGIZED TO SATISFY THE CUTOUT TEMPERATURE.

COOLING STAGES SHALL DE-ENERGIZE AS THE COMPRESSOR CUTOUT TEMPERATURES ARE SATISFIED IN 0.5 DEGREE INCREMENTS.

COOLING STAGES		
STAGE #	ON	OFF
1	SP+.5	SP-.5
2	SP+1.0	SP
3	SP+1.5	SP+.5
4	SP+2.0	SP+1.0

HEATING OPERATION
UPON A CALL FOR HEATING BASED ON THE SPACE TEMPERATURE SENSOR INPUT TO THE OEM CONTROLLER, THE OEM CONTROLLER SHALL ENERGIZE FIRST STAGE HEATING AND MODULATE THE OUTSIDE AIR DAMPER TO THE MINIMUM POSITION.

IF THE SPACE TEMPERATURE CONTINUES TO DECREASE AFTER ENERGIZING HEATING, THE OEM CONTROLLER SHALL CONTINUE TO ENERGIZE ADDITIONAL STAGES HEATING IN 0.5 DEGREEINCREMENTS OF SPACE TEMPERATURE, IF AVAILABLE.

IF THE CUTOUT TEMPERATURE FOR ANY STAGE OF HEATING IS NOT REACHED WITHIN 15 MINUTES, THE NEXT STAGE OF HEATING SHALL BE ENERGIZED TO SATISFY THE CUTOUT TEMPERATURE.

HEATING STAGES SHALL DE-ENERGIZE AS THE HEATER CUTOUT TEMPERATURES ARE SATISFIED IN 0.5 DEGREE INCREMENTS.

HEATING STAGES		
STAGE #	ON	OFF
1	SP-.5	SP+.5
2	SP-1.0	SP
3	SP-1.5	SP-.5
4	SP-2.0	SP-1.0

RTU PROTECTION
ALL EQUIPMENT SAFETY SEQUENCES, I.E. COMPRESSOR RESET, GAS BURNER RESET, ETC SHALL BE CONTROLLED BY THE OEM CONTROLLER.

REFRIGERANT LEAK DETECTION
FOR UNITS WITH A2L REFRIGERANT, UNITS WILL BE EQUIPPED WITH LEAK DETECTION SENSORS.

IN THE EVENT OF A REFRIGERANT LEAK DETECTION, THE OEM CONTROLLER SHALL ENERGIZE THE SUPPLY FAN TO DISPERSE AND DILUTE THE REFRIGERANT. COMPRESSORS, GAS HEAT, AND ELECTRIC HEAT ARE TURNED OFF AND FREE COOLING IS ALLOWED TO OPERATE.

IN THE EVENT OF A FAULTY OR MISSING REFRIGERANT SENSOR, THE OEM CONTROLLER SHALL ENERGIZE THE SUPPLY FAN TO RUN CONTINUOUSLY REGARDLESS OF DEMAND. IF THE OEM CONTROLLER CAN ESTABLISH THE SUPPLY FAN IS RUNNING, COMPRESSOR, GAS HEAT, AND ELECTRIC HEAT ARE ENERGIZED AS NECESSARY TO MEET COOLING OR HEATING DEMAND.

ALARMS
THE RTU CONTROLLER SHALL COMMUNICATE ALL RTU ERROR CODES TO THE BAS.

RTU LOAD ALARM LIST	
ERROR CODE	FROM OEM CONTROLLER TO BAS
4	SMOKE ALARM
5	AIR FLOW SWITCH
20	INPUT ERROR, PHASE LOSS OR VFD FAIL
74	ZONE SENSOR PROBLEM
152	LEAK DETECTED BY UNIT SENSOR #1
153	LEAK DETECTED BY UNIT SENSOR #2
257	UNIT LEAK SENSOR #1 FAULTY OR MISSING
258	UNIT LEAK SENSOR #2 FAULTY OR MISSING

COMMUNICATION DATA POINT LIST
THE RTU CONTROLLER AND BAS SHALL TRANSFER THE COMMUNICATION DATA POINTS BASED ON THE FOLLOWING SCHEDULE.

LENNOX BACnet COMMUNICATION DATA POINT LIST		
FROM BAS TO RTU CONTROLLER - ANALOG OUTPUTS		
OBJECT ID	OBJECT NAME	UNITS
101	APPLICATION MODE CONTROL	NONE
102	OUTDOOR AIR MIN POS CONTROL	PERCENT
104	OCCUPANCY SCHEDULER CONTROL	NONE
108	SPACE DEHUMIDIFICATION SETPT	PERCENT
114	EMERGENCY OVERRIDE CONTROL	NONE
129	SET ECONOMIZER OUTDOOR AIR SUITABLE	NONE
130	HEATING OCCUPIED SETPOINT	DEG F
131	COOLING OCCUPIED SETPOINT	DEG F
132	HEATING UNOCCUPIED SETPOINT	DEG F
133	COOLING UNOCCUPIED SETPOINT	DEG F
FROM RTU CONTROLLER TO BAS - ANALOG INPUTS		
OBJECT ID	OBJECT NAME	UNITS
232	UNIT STATUS	NONE
239	SPACE TEMPERATURE	DEG F
240	DISCHARGE AIR TEMPERATURE	DEG F
241	EFFECTIVE OCCUPANCY	NONE
243	LOCAL SPACE TEMPERATURE	DEG F
244	OUTSIDE AIR DAMPER	PERCENT
245	HEAT PRIMARY	PERCENT
247	COOL PRIMARY	PERCENT
248	ECONOMIZER ENABLED	PERCENT
250	SUPPLY FAN STATUS	PERCENT
252	SPACE TEMPERATURE SETPT (EFF)	DEG F
255	MOST RECENT ERROR 1	NONE
256	MOST RECENT ERROR 2	NONE
257	MOST RECENT ERROR 3	NONE
258	MOST RECENT ERROR 4	NONE
259	MOST RECENT ERROR 5	NONE
274	SPACE CO2 SENSOR (EFF)	PPM
276	SPACE HUMIDITY (EFF)	PERCENT
278	DEHUMIDIFICATION SETPT (EFF)	PERCENT
279	DEHUMIDIFICATION STATUS	NONE
281	RETURN AIR TEMPERATURE	DEG F

ECONOMIZER OPERATION (BACNET CONTROLLER WITH MUNTERS AHUS COMMUNICATING TO CONTROLLER)
THE BAS SHALL SEND AN ECONOMIZER ENABLE SIGNAL TO THE OEM CONTROLLER WHEN BOTH OF FOLLOWING OUTSIDE AIR CONDITIONS ARE MET:

OUTSIDE DRY BULB TEMPERATURE > 5°F AND < 68°F
OUTSIDE DEWPOINT TEMPERATURE > 5°DP AND < 48°DP

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ISSUE BLOCK

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DOCUMENT DATE: 01/08/25

NORTH CAROLINA PROFESSIONAL SEAL 050536 ENGINEER JARROD M. EASTERWOOD
01/07/2025

BUILDING AUTOMATION SYSTEM

SHEET
BAS2

JARROD M. EASTERWOOD

LEAK ALARM AND CONTROL SEQUENCE OF OPERATIONS

REFRIGERANT LEAK CONTROL SEQUENCE OF OPERATION FOR COOLERS AND FREEZERS:

THE LEAK DETECTION CONTROL MODULES, UPON REGISTERING A CONCENTRATION THAT IS: ONE-HALF OF THE IDLH OR AT THE OEL; WHICHEVER IS LESS, SHALL:

1. ACTIVATE VISUAL AND AUDIBLE ALARMS FOR THE ZONE INDICATING THE LEAK.
2. ENABLE AN AUTOMATIC SHUTDOWN OF THE LLSV TO ISOLATE THE REFRIGERANT FLOW IN THE CIRCUIT IN ALARM.

3

AUDIBLE / VISUAL DEVICES INSIDE COOLERS AND FREEZERS SHALL BE INSTALLED IN WEATHERPROOF JUNCTION BOXES, REFERENCE LEAK DETECTOR INSTALLATION DETAIL.

AUDIBLE / VISUAL DEVICES SHALL ANNUNCIATE AT A SOUND PRESSURE LEVE THAT IS A MINIMUM OF 15 DBA ABOVE THE AMBIENT NOISE LEVEL.

LEGEND

OEL:	OCCUPATIONAL EXPOSURE LIMIT	TWA:	TIME WEIGHTED AVERAGE	LLSV:	LIQUID LINE SOLENOID VALVE
IDLH:	IMMEDIATELY DANGEROUS TO LIFE OR HEALTH	SPL:	SOUND PRESSURE LEVEL	EPR:	EVAPORATOR PRESSURE REGULATOR

BAS EQUIPMENT SALVAGE REQUIREMENTS

04.25.22

ALL DEMOLISHED NOVAR BAS EQUIPMENT SHALL BE RETURNED TO WALMART MECHANICAL SERVICES CONSTRUCTION MANAGER. EQUIPMENT TO BE RETURNED INCLUDES: EXECUTIVE CONTROLLER(S), IOM(S), CIM(S), CCM(S), RCC(S), CMS(S), ETC. PROVIDE DOCUMENTATION FOR ALL EQUIPMENT REMOVED IN ACCORDANCE WITH SPECIFICATIONS AND REQUIRED CLOSE-OUT DOCUMENTS.

CONTRACTOR SHALL SEND EQUIPMENT TO ASSET TECHNOLOGIES AT THE ADDRESS BELOW. CONTRACTOR SHALL APPLY FOR CHANGE ORDER FOR SHIPPING REIMBURSEMENT. BEFORE SENDING, CALL FOR "RMA" NUMBER AT 502-425-8702.

3600 CHAMBERLAIN LANE
STE. 122, LOUISVILLE, KY 40241

24 HOURS PRIOR TO SHUTTING DOWN ANY REFRIGERATION SYSTEMS, HVAC SYSTEMS OR BUILDING AUTOMATION CONTROLS SYSTEMS, SEND EMAIL TO NSRM@WALMART.COM. THE E-MAIL SHALL STATE WHAT, WHY, AND WHEN IT IS BEING SHUT DOWN AND HOW LONG IT IS ANTICIPATED TO BE SHUT DOWN. THEN SEND A FOLLOW UP EMAIL TO NSRM@WALMART.COM AFTER THE WORK IS COMPLETE AND THE SYSTEM IS BACK UP AND RUNNING.

LEAK DETECTION SYMBOLS

	AUDIO\VISUAL ALARM
HS	HORN AND STROBE INDICATOR
LDP	LEAK DETECTION PANEL
L	LEAK DETECTION SENSOR
ZA	ZONE ALARM SILENCE PANEL

GENERAL REFRIGERATION BAS NOTES

04.25.22

1. BAS CONTRACTOR SHALL CONTACT THE BAS SUPPLIER(S) TO OBTAIN A CURRENT MODULE CONFIGURATION PRINTOUT BEFORE TERMINATING SENSOR LEADS AT INPUT MODULES. THE REQUEST FOR THE CONFIGURATION PRINTOUT SHALL BE MADE PRIOR TO THE INSTALLATION OF BAS CABLES. WIRING TERMINATIONS SHALL BE LANDED ACCORDING TO THE BAS SUPPLIER CONFIGURATION SHEETS.
2. BAS CONTRACTOR SHALL PROVIDE COMPLETED REFRIGERATION SENSOR INPUT VERIFICATION FORMS TO THE BAS SUPPLIER(S) AT THE BEGINNING OF THE REFRIGERATION EQUIPMENT STARTUP. BAS INSTALLER SHALL PROVIDE ASSISTANCE TO THE BAS SUPPLIER(S) FOR SPOT CHECKING OF SENSORS FOR ACCURACY.
3. ALL BAS CABLE ON THE SALES FLOOR SHALL BE ROUTED IN CONDUIT AND CONCEALED FROM VIEW. ROUTED ALONGSIDE OTHER PIPING OR CONDUIT AS MUCH AS POSSIBLE.
4. BAS CONTRACTOR SHALL BE PRESENT AND AVAILABLE TO RESOLVE ISSUES AND PROVIDE REFRIGERATION STARTUP ASSISTANCE UNTIL WORK IS RELEASED BY THE BAS SUPPLIER AND WALMART CONSTRUCTION MANAGER.
5. DURING THE REFRIGERATION STARTUP, BAS CONTRACTOR SHALL COMPLETE ALL UNRESOLVED REFRIGERATION BAS WORK PRIOR TO WORKING ON OTHER BAS INSTALLATION ITEMS.
6. WHEN THE BAS SUPPLIER IS NOT SCHEDULED TO PERFORM THE ON SITE REFRIGERATION STARTUP, THE BUILDING AUTOMATION CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL CHECKS AND TEST TO ENSURE A FULLY FUNCTIONAL REFRIGERATION CONTROL SYSTEM. CONTACT THE BAS SUPPLIER FOR THE BLANK TEST VERIFICATION FORMS AND INSTRUCTIONS FOR COMPLETING. ALL COMPLETED TEST VERIFICATION FORMS SHALL BE RETURNED TO THE WALMART CONSTRUCTION MANAGER.
7. REFER TO REFRIGERTATION AND ARCHITECTURAL DRAWINGS FOR CONDUIT INSTALLATION AND SEALING REQUIREMENTS FOR DEVICES SHOWN ON COOLER/FREEZER PANELS. DO NOT INSTALL CONDUIT WITHIN COOLER/FREEZER PANELS.
8. ROUTE ALL UTILITY SERVICE LINES (PIPES AND CONDUIT) WITHIN STUD WALLS WHEREVER POSSIBLE. ON COOLER/FREEZER PANELS IN FOOD PREP AREAS WHERE UTILITIES MUST BE EXPOSED, INSTALL UTILITIES 1\2" OFF FACE OF PANEL TO ALLOW FOR CLEANING; USE ONLY NON-CORROSIVE MATERIALS FOR SPACERS AND ANCHORS.
9. REFERENCE ARCHITECTURAL DEMOLITION PLANS FOR FULL EXTENT OF DEMOLITION WORK REQUIRED.

REFRIGERATION BAS SYMBOLS

04.25.22

E2E	COPELAND RX-300 GATEWAY
BAS	BUILDING AUTOMATION SYSTEM
TEMP	TEMPERATURE
VFD	VARIABLE FREQUENCY DRIVE
XFMR	TRANSFORMER
COMM	COMMUNICATION PORT/MODULE
LTA-X	REFRIGERATION CIRCUIT
S	TEMPERATURE SENSOR
D	DEFROST TERMINATION SENSOR
	BAS BACKBONE
DTS	DUAL TEMP SWITCH
RIB	RELAY IN BOX
CLCD	CONTROL LINK CASE DISPLAY
DXL	DIXELL CASE CONTROLLER
IPRO	COPELAND INPUT/OUTPUT MODULE
LDP	LEAK DETECTION PANEL
L	LEAK DETECTION SENSOR
	AUDIO\VISUAL ALARM
ZA	ZONE ALARM SILENCE PANEL
S3C	SPORLAN WALK-IN CONTROLLER
S3C	SPORLAN CASE CONTROLLER
KE2-RE2	KE2 WALK-IN CIRCUIT CONTROLLER
SGR	SPORLAN GATEWAY ROUTER
SNS	SPORLAN NETWORK SWITCH
DS	DOOR SWITCH
	NEW FIELD INSTLLED EQUIPMENT
	EXISTING EQUIPMENT
	NEW FACTORY INSTALLED EQUIPMENT
	EQUIPMENT TO BE DEMOLISHED

XIO-8U-B: A1 SCHEDULE (N)		
U1/A1	**AS20 DS**	**(N)**
U2/A2	**CU1 TCO2 DS**	**(N)**
U3/A3	**CU2 TCO2 DS**	**(N)**
U4/A4	**AS20 PICKUP COOLER LEAK**	**(N,DI,FI)**
U5/A5	**AS20 PICKUP COOLER LEAK**	**(N,AL,FI)**
U6/A6	**SPARE**	
U7/A7	**SPARE**	
U8/A8	SPARE	

NEW BAS BACKBOARD (INSIDE EDC1)

BAS ONE-LINE AND SCHEDULE NOTES

E	———	EXISTING BAS DEVICE, SENSOR, OR WIRE FOR REUSE.
RL		EXISTING BAS DEVICE OR SENSOR TO RELOCATE AND RECONNECT. INSTALL NEW CABLE FOR RELOCATED DEVICE OR SENSOR AS NECESSARY.
RD		REDESIGNATED BAS DEVICE OR SENSOR.
RP		REPLACED BAS DEVICE OR SENSOR.
N		NEW BAS DEVICE OR SENSOR.
FI	———	NEW FIELD INSTALLED BAS DEVICE, SENSOR, OR WIRE.
FA	- - - -	NEW FACTORY INSTALLED BAS DEVICE, SENSOR, OR WIRE.
M		BAS DEVICE OR SENSOR USED FOR MONITORING ONLY.
DI		DIGITAL INPUT.
DO		DIGITAL OUTPUT.
AI		ANALOG INPUT.

ES-1	
	COMMUNICATION PORT
COM1	LCD (IF APPLICABLE) / BACNET / MODBUS LOOP
COM2	SPECTRUM (NOVARnet) / BACNET / MODBUS LOOP

COM MODULE 1	
	COMMUNICATION PORT
COM3	SPECTRUM (NOVARnet) / BACNET / MODBUS LOOP
COM4	SPECTRUM (NOVARnet) / BACNET / MODBUS LOOP

COM MODULE 2	
	COMMUNICATION PORT
COM5	SPECTRUM (NOVARnet) / BACNET / MODBUS LOOP
COM6	SPECTRUM (NOVARnet) / BACNET / MODBUS LOOP

WIRE LEGEND	NOVAR
WIR-1010 (TAN CABLE 18-2, 20-2 TWISTED PAIR)	
WIR-2020 (BLUE CABLE 22-2 TWISTED PAIR)	

NOTES:
1. ALL CABLE WIR-2020 UNLESS NOTED OTHERWISE.
2. ALL WIR-1010 AND WIR-2020 CABLE FURNISHED BY BAS VENDOR FOR INSTALLATION BY CONTRACTOR.
3. ALL OTHER CABLE FURNISHED AND INSTALLED BY CONTRACTOR.

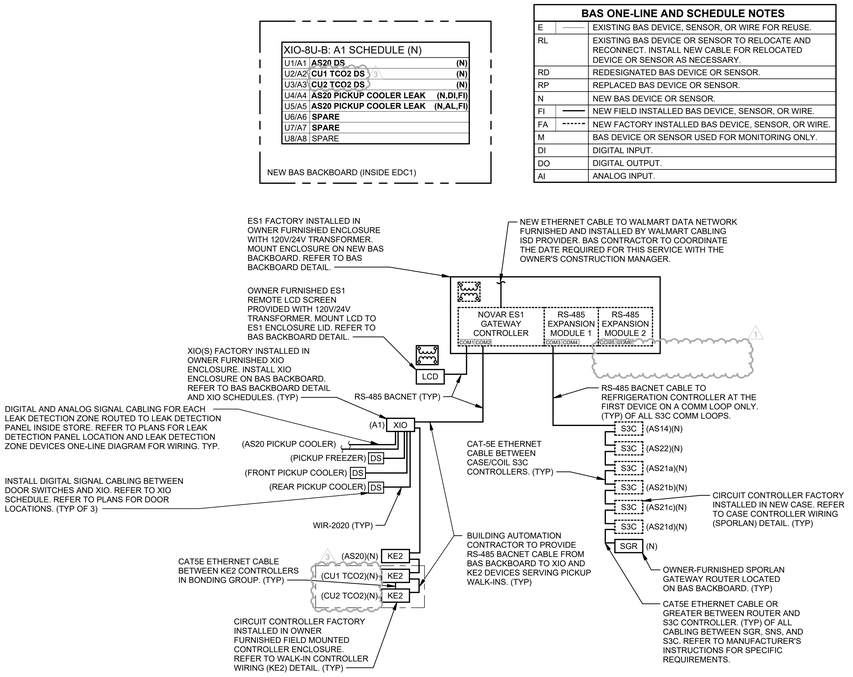
KE2 DEFROST GROUP PROGRAMMING:

GROUP #01
CIRCUITS: CU1 TCO2, AND CU2 TCO2
PROGRAM FOR SYNCHWOIZE DEFROST
MAXIMUM DEFROST: 28.2 AMPS

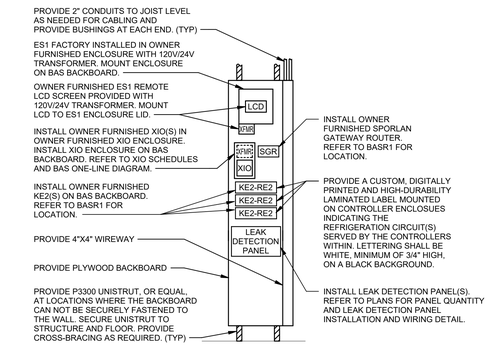
REFRIGERATION BAS ONE-LINE REFLECTS THE INTENDED DESIGN BASED ON NEW CASES AND EXISTING SYSTEM NUMBERS. VERIFY ALL EXISTING CONDITION AND LOCATION OF ALL BAS EQUIPMENT PRIOR TO ROUGH-IN.

UNLESS NOTED OTHERWISE, DEVICES SHOWN IN THIS ONE-LINE DIAGRAM ARE OWNER FURNISHED VIA BAS VENDOR; BUILDING AUTOMATION SYSTEM CONTRACTOR TO INSTALL CABLING AND DEVICES AND MAKE FINAL TERMINATIONS. REFER TO PLANS FOR DEVICE LOCATIONS.

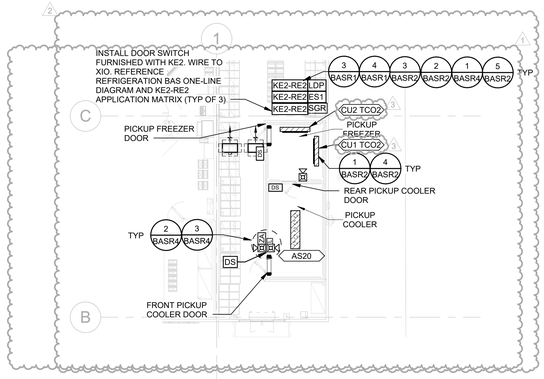
COORDINATE WITH LEGACY BAS SUPPLIER (NOVAR) FOR THE REPROGRAMMING OF THEIR RACK CONTROLLER WITH THE REMOVAL OF REFRIGERATION CIRCUITS FROM THEIR CONTROL. VERIFY DEFROST SCHEDULES ARE COORDINATED BETWEEN THE EXISTING RACK CONTROLLER AND THE NEW CASE AND WALK-IN CONTROLS.



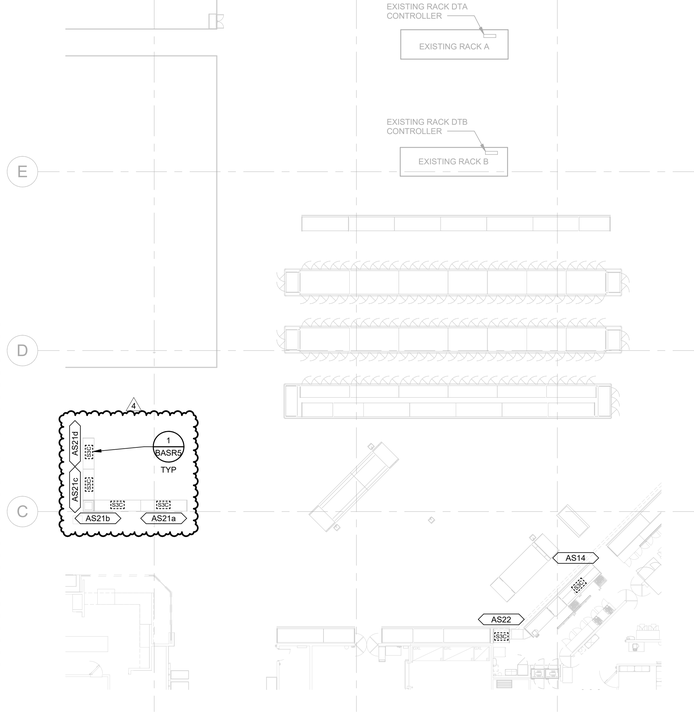
4 REFRIGERATION BAS ONE-LINE DIAGRAM
NTS



3 BAS BACKBOARD
NTS



2 PICKUP REFRIGERATION BUILDING AUTOMATION SYSTEM PLAN
1/16" = 1'-0"



1 FRONT REFRIGERATION BUILDING AUTOMATION SYSTEM PLAN
1/16" = 1'-0"

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JOB NUMBER: 24500012701 PROTO: 182

ISSUE BLOCK		
1	PR#2	07/25/25
2	ADD#2	9/10/25
3	CCD#1	12/04/25
4	CCD#3	02/12/26

CHECKED BY:	JRW
DRAWN BY:	JN
PROTO CYCLE:	07/26/24
DOCUMENT DATE:	01/08/25

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 050536 JARROD M. EASTERWOOD

2/11/2026

BUILDING AUTOMATION SYSTEM PLAN AND DETAILS

SHEET:
BASR1

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELF WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

JARROD M. EASTERWOOD

THIS DETAIL IS A SCHEMATIC REPRESENTATION AND MAY NOT REFLECT ALL WALK-IN COIL CONTROLLER CONFIGURATIONS. REFERENCE MANUFACTURER FOR FACTORY INSTALLED COMPONENT INFORMATION.

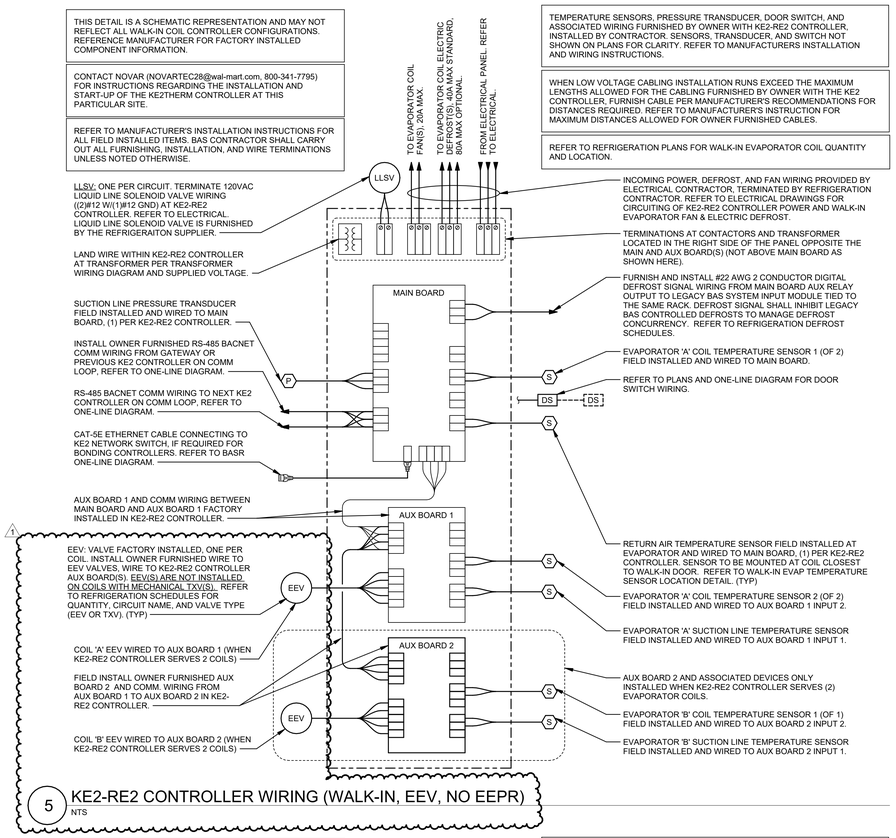
CONTACT NOVAR (NOVARTEC28@wal-mart.com, 800-341-7795) FOR INSTRUCTIONS REGARDING THE INSTALLATION AND START-UP OF THE KE2THERM CONTROLLER AT THIS PARTICULAR SITE.

REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR ALL FIELD INSTALLED ITEMS. BAS CONTRACTOR SHALL CARRY OUT ALL FURNISHING, INSTALLATION, AND WIRE TERMINATIONS UNLESS NOTED OTHERWISE.

TEMPERATURE SENSORS, PRESSURE TRANSDUCER, DOOR SWITCH, AND ASSOCIATED WIRING FURNISHED BY OWNER WITH KE2-RE2 CONTROLLER, INSTALLED BY CONTRACTOR. SENSORS, TRANSDUCER, AND SWITCH NOT SHOWN ON PLANS FOR CLARITY. REFER TO MANUFACTURERS INSTALLATION AND WIRING INSTRUCTIONS.

WHEN LOW VOLTAGE CABLING INSTALLATION RUNS EXCEED THE MAXIMUM LENGTHS ALLOWED FOR THE CABLING FURNISHED BY OWNER WITH THE KE2 CONTROLLER, FURNISH CABLE PER MANUFACTURER'S RECOMMENDATIONS FOR DISTANCES REQUIRED. REFER TO MANUFACTURER'S INSTRUCTION FOR MAXIMUM DISTANCES ALLOWED FOR OWNER FURNISHED CABLES.

REFER TO REFRIGERATION PLANS FOR WALK-IN EVAPORATOR COIL QUANTITY AND LOCATION.



5 KE2-RE2 CONTROLLER WIRING (WALK-IN, EEV, NO EEPR)
NTS

THIS DETAIL IS A SCHEMATIC REPRESENTATION AND MAY NOT REFLECT ALL WALK-IN COIL CONTROLLER CONFIGURATIONS. REFERENCE MANUFACTURER FOR FACTORY INSTALLED COMPONENT INFORMATION.

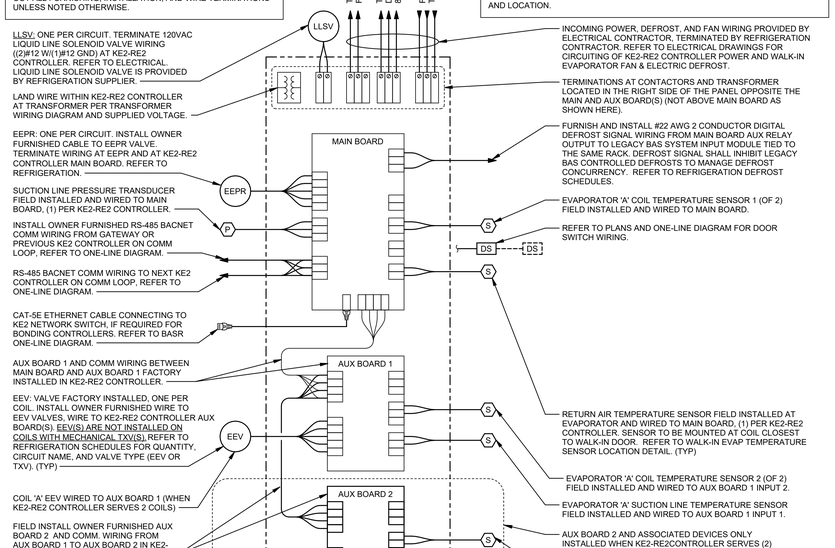
CONTACT NOVAR (NOVARTEC28@wal-mart.com, 800-341-7795) FOR INSTRUCTIONS REGARDING THE INSTALLATION AND START-UP OF THE KE2THERM CONTROLLER AT THIS PARTICULAR SITE.

REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR ALL FIELD INSTALLED ITEMS. BAS CONTRACTOR SHALL CARRY OUT ALL FURNISHING, INSTALLATION, AND WIRE TERMINATIONS UNLESS NOTED OTHERWISE.

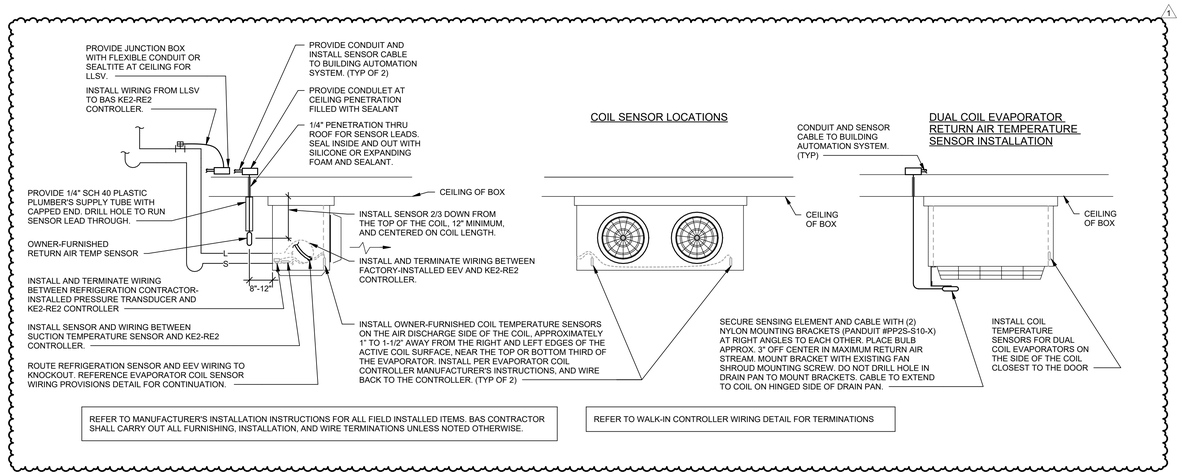
TEMPERATURE SENSORS, PRESSURE TRANSDUCER, DOOR SWITCH, AND ASSOCIATED WIRING FURNISHED BY OWNER WITH KE2-RE2 CONTROLLER, INSTALLED BY CONTRACTOR. SENSORS, TRANSDUCER, AND SWITCH NOT SHOWN ON PLANS FOR CLARITY. REFER TO MANUFACTURERS INSTALLATION AND WIRING INSTRUCTIONS.

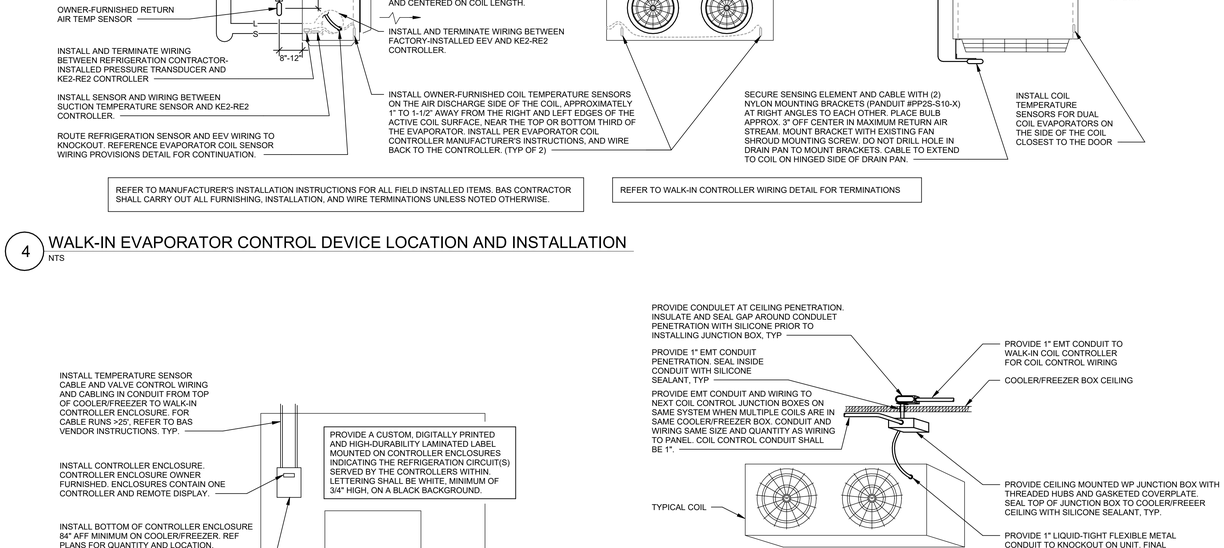
WHEN LOW VOLTAGE CABLING INSTALLATION RUNS EXCEED THE MAXIMUM LENGTHS ALLOWED FOR THE CABLING FURNISHED BY OWNER WITH THE KE2 CONTROLLER, FURNISH CABLE PER MANUFACTURER'S RECOMMENDATIONS FOR DISTANCES REQUIRED. REFER TO MANUFACTURER'S INSTRUCTION FOR MAXIMUM DISTANCES ALLOWED FOR OWNER FURNISHED CABLES.

REFER TO REFRIGERATION PLANS FOR WALK-IN EVAPORATOR COIL QUANTITY AND LOCATION.

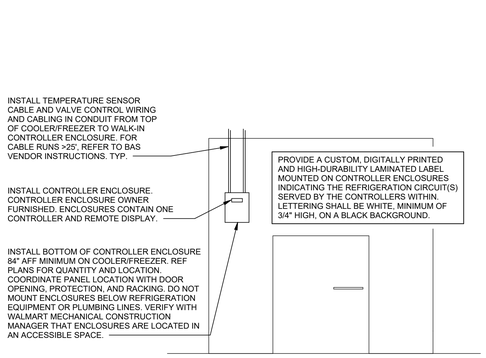


3 KE2-RE2 CONTROLLER WIRING (WALK-IN, EEV, WITH EEPR)
NTS





4 WALK-IN EVAPORATOR CONTROL DEVICE LOCATION AND INSTALLATION
NTS



2 WALK-IN COOLER/FREEZER COIL CONTROLLER ENCLOSURE MOUNTING DETAIL (KE2)
NTS

NOTE: DO NOT LOCATE WP JUNCTION BOX DIRECTLY IN FRONT OF DISCHARGE FAN, OFFSET TO SIDE.

NOTE: THE CONDUIT AND WIRING IN THIS DETAIL IS FOR LOW VOLTAGE AND CONTROL VOLTAGE WIRING ONLY. EVAPORATOR COIL POWER LINE VOLTAGE WIRING SHALL BE INSTALLED IN SEPARATE CONDUIT. REFER TO ELECTRICAL.

1 UNIT COOLER SENSOR WIRING PROVISIONS
NTS

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ISSUE BLOCK

1	PR#2	07/25/25

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DRAWN BY:	JN
PROTO CYCLE:	07/26/24
DOCUMENT DATE:	01/08/25

SEAL 050536
NORTH CAROLINA PROFESSIONAL ENGINEER JARROD M. EASTERWOOD
7/24/2025

BUILDING AUTOMATION SYSTEM DETAILS

SHEET: BASR2

JARROD M. EASTERWOOD

SYSTEM DTA DISCHARGE AIR TEMPERATURE AND DEFROST PARAMETERS

Updated: 3/18/2026

CIRCUIT #	APPLICATION	MODEL NUMBER	MFR	EQUIP. NUMBER	DISCHARGE AIR TEMP SETTING FOR CASES/ RETURN AIR TEMP SETTING FOR WALK-IN BOXES: MANUFACTURER'S TARGET (°F)	OWNER'S OPERATING SETPOINT (°F)	DUAL TEMP TARGET (°F)	STARTING SUPERHEAT SETPOINT (°F)	DEFROST: DEFROST TYPE	FREQUENCY PER DAY	PUMP OUT TIME (MIN)	MAX DURATION (MIN)	TERMINATION TEMP (°F)	DRIP TIME (MIN)	DEFROST SCHEDULE: Defrost 1	Defrost 2	Defrost 3	Defrost 4	Defrost 5	Defrost 6
A01	Dual Temp Coffin Island	FWG	HUSSMANN	RD6011.205 - 4/10/2014	-12	-12	24		EL	1	0	60	48	0	21:48					
A02	Dual Temp Coffin End	FWEG	HUSSMANN	RD6010.205 - 4/10/2014	-12	-12	24		EL	1	0	60	48	0	23:00					
A03	I.C. FREEZER W.I.	BML-220	BOHN	-	-10	-8	--		EL	4	0	45	55	0	0:00	6:00	12:00	18:00		
A04	1/2 GROCERY FREEZER	LLE-136	BOHN	-	-2	-2	--		EL	4	0	45	55	0	2:40	8:40	14:40	20:40		
A05	1/2 GROCERY FREEZER	LLE-136	BOHN	-	-2	-2	--		EL	4	0	45	55	0	2:36	8:36	14:36	20:36		
A06	Dual Temp Coffin Island	FWG	HUSSMANN	RD6011.205 - 4/10/2014	-12	-12	24		EL	1	0	60	48	0	18:48					
A07	Dual Temp Coffin End	FWEG	HUSSMANN	RD6010.205 - 4/10/2014	-12	-12	--		EL	1	0	60	48	0	15:48					
A08	Dual Temp Coffin Island	FWG	HUSSMANN	RD6011.205 - 4/10/2014	-12	-12	24		EL	1	0	60	48	0	12:48					
A09	Dual Temp Coffin End	FWEG	HUSSMANN	RD6010.205 - 4/10/2014	-12	-12	24		EL	1	0	60	48	0	9:48					
A10	Reach-in I.C.	RN6SL	KYSOR/WARREN	RD3015.142 - 4/10/2014	-11	-8	--		EL	1	0	45	55	0	0:48					
A11	Reach-in I.C.	RN6SL	KYSOR/WARREN	RD3015.142 - 5/29/2014	-11	-8	--		EL	1	0	45	55	0	3:48					
A12	Reach-in I.C. Cake	RN6SL	KYSOR/WARREN	RD3015.142 - 5/29/2014	-11	-8	--		EL	1	0	45	55	0	6:48					
AS01	Meat Cooler W.I.	WKE-180	BOHN-LEGACY		28	28	--		EL	3	0	80	85	3	2:40	10:40	18:40			
AS02	M.D. Rear Load Dairy	DR6XN	KYSOR/WARREN	RD4022.511 - 5/29/2014	31	31	--		OT	6	0	35	49	1	2:05	6:05	10:05	14:05	18:05	22:05
AS03	M.T. Coffin Island w/2 Ends	FWG \ FWEG	HUSSMANN	RD6011.005 \ RD6010.005 - 5/28/2014 \ 4/10/2014	24	24	--		EL	1	0	60	48	1	0:45					
AS04	M.T. Coffin Ends	FWEG	HUSSMANN	RD6010.005 - 4/10/2014	24	24	--		EL	1	0	60	48	1	5:25					
AS05	Dairy Cooler W.I.	ADT-104	BOHN-LEGACY	-	35	35	--		OT	3	0	45	50	1	4:00	12:00	20:00			
AS06	Dairy Cooler W.I. w/ drs.	ADT-260	BOHN-LEGACY		35	35	--		OT	3	0	45	50	1	0:00	8:00	16:00			
AS07		FWEG \ FWG	HUSSMANN	RD6010.005 \ RD6011.005 - 4/10/2014 \ 5/28/2014	24	24	--		EL	1	0	60	48	1	3:40					
AS08	M.D. Meat	OHMH-NRG	HILL PHOENIX	RD4003.351 - 3/18/2014	29	29	--		OT	6	0	40	48	1	0:45	4:45	8:45	12:45	16:45	20:45
AS09	M.D. Meat	OHMH-NRG	HILL PHOENIX	RD4003.351 - 3/18/2014	29	29	--		OT	6	0	40	48	1	1:25	5:25	9:25	13:25	17:25	21:25
AS10	Upright Floral Case	P4386	BORGEN	RD4016.901 - 5/13/2014	40	40	--		OT	6	0	20	0	1	3:00	7:00	11:00	15:00	19:00	23:00
AS11	M.D. Cake	BX3LN	KYSOR/WARREN	RD1018.851 - 3/17/2014	31	31	--		OT	6	0	35	50	1	3:20	7:20	11:20	15:20	19:20	23:20
AS12	Bakery Cooler W.I.	WK-130	BOHN-LEGACY	-	35	35	--		OT	3	0	40	55	1	4:00	12:00	20:00			
AS13		MDC-50LC \ MDC-50LC \...	SOUTHERN	RD1006.601 \ RD1006.651 \ RD1005.651 - 5/17/2012	30	30	--		OT	6	0	40	45	1	3:20	7:20	11:20	15:20	19:20	23:20
AS14	Service Deli	BMD-R	BARKER/HILL...	RD2020.642 - 8/28/2020	30	30	--		OT	6	0	30	42	0	0:35	4:35	8:35	12:35	16:35	20:35
AS15	Deli Cooler W.I.	ADT-104	BOHN-LEGACY	-	35	35	--		OT	3	0	40	55	0	2:40	10:40	18:40			
AS16	Poultry Cooler W.I.	WKE-155	BOHN-LEGACY	-	28	28	--		EL	3	0	40	55	3	4:00	12:00	20:00			
AS17	M.D. Produce Island	Q3.5-SS-EC	HUSSMANN	RD1038.752 - 7/20/2015	32	32	--		OT	6	0	20	48	0	2:30	6:30	10:30	14:30	18:30	22:30
AS18	M.D. Produce Island	Q3.5-SS-EC	HUSSMANN	RD1038.752 - 7/20/2015	32	32	--		OT	6	0	20	48	0	2:50	6:50	10:50	14:50	18:50	22:50
AS20	Pickup Cooler	BEV0360BS6EMA	BOHN	-	34	34	--	10	EL	DEMAND...	0	45	50	3						
AS21	Pickup Cooler	BEV0360BS6EMA	BOHN	-	34	34	--	10	EL	DEMAND...	0	45	50	3	0:45	4:45	8:45	12:45	16:45	20:45
AS22	M.D. Deli	OSDM	HILL PHOENIX, INC.	RD4010.002	31	30	--	6-8	OT	4	0	40	42	0	0:40	6:40	12:40	18:40		

1.) Information included in this schedule is taken from supplier's submittals.
2.) Contractor to verify information against latest submittals available at time cases/coils are delivered.
3.) Starting superheat setpoint values are per supplier's published case data. Field adjustment may be required.
4.) Contents of schedule contains information derived from Owner's record schedules, supplier submittals, cutsheets, and Owner's design parameters at the time the schedule was prepared. Field verify as it may not reflect existing conditions.

SYSTEM CU1 TCO2 DISCHARGE AIR TEMPERATURE AND DEFROST PARAMETERS

Updated: 12/1/2025

CIRCUIT #	APPLICATION	MODEL NUMBER	MFR	EQUIP. NUMBER	DISCHARGE AIR TEMP SETTING FOR CASES/ RETURN AIR TEMP SETTING FOR WALK-IN BOXES: MANUFACTURER'S TARGET (°F)	OWNER'S OPERATING SETPOINT (°F)	DUAL TEMP TARGET (°F)	STARTING SUPERHEAT SETPOINT (°F)	DEFROST: DEFROST TYPE	FREQUENCY PER DAY	PUMP OUT TIME (MIN)	MAX DURATION (MIN)	TERMINATION TEMP (°F)	DRIP TIME (MIN)	DEFROST SCHEDULE: Defrost 1	Defrost 2	Defrost 3	Defrost 4	Defrost 5	Defrost 6
CU1 TCO2	Pickup Freezer W.I.	BEL0220CH4EEA	BOHN-CO2 (90bar)	-	-10	-10	--		EL	3	0	45	55	3	0:00	8:00	16:00			

1.) Starting superheat setpoint values are per manufacturer's published case data. Field adjustment may be required.
2.) Parameters above are to be used in programming new/replaced cases/coils only.
3.) Contractor to verify information against latest submittals available at time cases/coils are delivered.
4.) CU1 TCO2 defrost controlled via CC200

SYSTEM CU2 TCO2 DISCHARGE AIR TEMPERATURE AND DEFROST PARAMETERS

Updated: 12/1/2025

CIRCUIT #	APPLICATION	MODEL NUMBER	MFR	EQUIP. NUMBER	DISCHARGE AIR TEMP SETTING FOR CASES/ RETURN AIR TEMP SETTING FOR WALK-IN BOXES: MANUFACTURER'S TARGET (°F)	OWNER'S OPERATING SETPOINT (°F)	DUAL TEMP TARGET (°F)	STARTING SUPERHEAT SETPOINT (°F)	DEFROST: DEFROST TYPE	FREQUENCY PER DAY	PUMP OUT TIME (MIN)	MAX DURATION (MIN)	TERMINATION TEMP (°F)	DRIP TIME (MIN)	DEFROST SCHEDULE: Defrost 1	Defrost 2	Defrost 3	Defrost 4	Defrost 5	Defrost 6
CU2 TCO2	Pickup Freezer W.I.	BEL0220CH4EEA	BOHN-CO2 (90bar)	-	-8	-10	--		EL	3	0	45	55	3	0:48	8:48	16:48			

1.) Starting superheat setpoint values are per manufacturer's published case data. Field adjustment may be required.
2.) Parameters above are to be used in programming new/replaced cases/coils only.
3.) Contractor to verify information against latest submittals available at time cases/coils are delivered.
4.) CU2 TCO2 defrost controlled via CC200

KE2-RE2 WALK-IN APPLICATION MATRIX

APPLICATION	EQUIPMENT: TYPE		QTY	NOTES
TRANSCRITICAL CO2 RACK	VALVES	EEV (PWM)	1 PER COIL	1
		LLSV	1	3
		EEPR	0	4
	SENSORS	PRESSURE TRANSDUCER	1	5
		COIL TEMPERATURE SENSOR	2 FOR 1ST COIL, 1 FOR ADDITIONAL COIL	7
		RETURN AIR TEMPERATURE SENSOR	1	7
		SUCTION LINE TEMPERATURE SENSOR	1 PER COIL	7

GENERAL NOTES:
A. REFER TO KE2-RE2 WALK-IN CONTROL WIRING DETAIL(S).
B. REFER TO WALK-IN INSTALLATION AND WIRING DETAIL(S)
C. REFER TO MANUFACTURERS INSTALLATION AND WIRING INSTRUCTIONS.
D. INSTALLING CONTRACTOR TO VERIFY EACH SENSOR & VALVE IS OPERATING AS INTENDED.
E. FOR SECONDARY APPLICATIONS, THE KE2-RE2 CAN ONLY CONTROL ONE EVAPORATOR COIL. FOR DX APPLICATIONS, THE KE2-RE2 CAN BE CONFIGURED FOR CIRCUIT LEVEL CONTROL OF UP TO 3 EVAPORATOR COILS.
F. UNLESS NOTED OTHERWISE, QUANTITIES LISTED IN THIS MATRIX ARE PER CIRCUIT.

NOTES:
1. EEV FACTORY INSTALLED IN UNIT COOLER. BASR CONTRACTOR SHALL WIRE TO KE2-RE2 CONTROLLER AND MAKE FINAL TERMINATION.
2. EEV NOT USED
3. REFRIGERATION CONTRACTOR SHALL INSTALL VALVE AT TOP OF WALK-IN BOX AND WIRE BACK TO KE2-RE2. BASR CONTRACTOR SHALL MAKE FINAL TERMINATION.
4. EEPR NOT USED
5. BASR CONTRACTOR SHALL INSTALL THE TRANSDUCER, WIRE TO KE2-RE2 CONTROLLER, AND MAKE FINAL TERMINATION.
6. PRESSURE TRANSDUCER NOT USED
7. BASR CONTRACTOR SHALL INSTALL THE SENSOR, WIRE TO KE2-RE2 CONTROLLER, AND MAKE FINAL TERMINATION.
8. SUCTION LINE TEMPERATURE SENSOR NOT USED
9. MECHANICAL TXV FACTORY INSTALLED IN UNIT COOLER. EEV NOT USED.

KE2-RE2 DOOR SWITCH APPLICATION MATRIX

APPLICATION	EQUIPMENT: AIR CURTAIN	DOOR	CONTROLLER	NOTES
APD / PICKUP	HCR	SWING DOOR	KE2-RE2	1, 2, 10
		ROLLSEAL	KE2-RE2	3, 4, 10
	OTHER AIR CURTAIN OR DOORS WITHOUT AIR CURTAINS	SWING DOOR	KE2-RE2	2, 10
		ROLLSEAL	KE2-RE2	5, 6, 10
OTHER	HCR	SWING DOOR	KE2-RE2	1, 7, 11
		ROLLSEAL	KE2-RE2	4, 8, 11
	OTHER AIR CURTAIN OR DOORS WITHOUT AIR CURTAINS	SWING DOOR	KE2-RE2	7, 11
		ROLLSEAL	KE2-RE2	6, 9, 11

GENERAL NOTES:
A. REFER TO KE2-RE2 WALK-IN CONTROL WIRING DETAIL(S).
B. REFER TO BASR PLANS AND ONE-LINE DIAGRAMS FOR DEVICE LOCATIONS AND I/O SCHEDULES
C. REFER TO MANUFACTURERS INSTALLATION AND WIRING INSTRUCTIONS.

NOTES:
1. WIRE HCR DOOR SWITCH TO HCR CONTROLLER
2. WIRE KE2 DOOR SWITCH TO BAS I/O BOARD
3. WIRE ROLLSEAL DRY CONTACT TO HCR CONTROLLER AND BAS I/O BOARD (DOUBLE-TAP)
4. DISCARD KE2 AND HCR MAG SWITCHES
5. WIRE ROLLSEAL DRY CONTACT TO BAS I/O BOARD
6. DISCARD KE2 MAG SWITCH
7. WIRE KE2 DOOR SWITCH TO KE2-RE2
8. WIRE ROLLSEAL DRY CONTACT TO HCR CONTROLLER AND KE2-RE2 (DOUBLE-TAP)
9. WIRE ROLLSEAL DRY CONTACT TO KE2-RE2
10. EVAPORATOR FANS SHALL NOT CYCLE OFF BASED ON DOOR OPENING.
11. EVAPORATOR FANS SHALL CYCLE OFF BASED ON KE2-RE2 DOOR OPENING INPUT.

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELF WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

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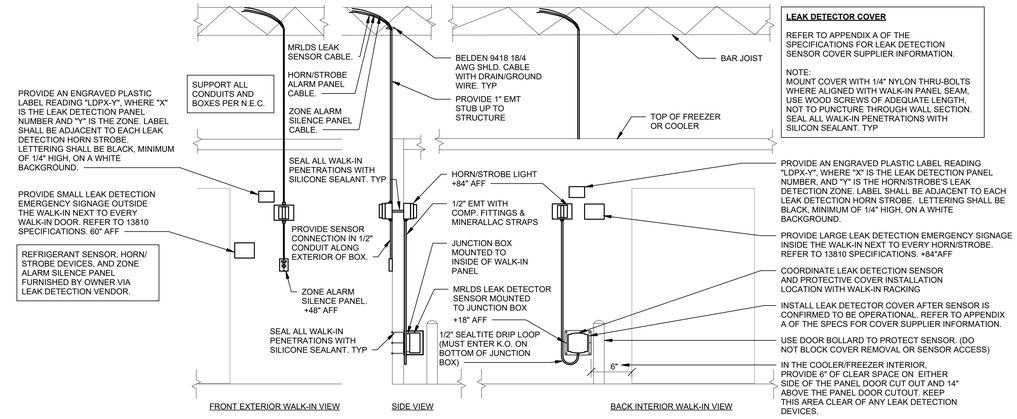
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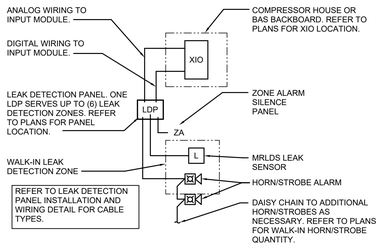
BUILDING AUTOMATION SYSTEM SCHEDULE

SHEET: BASR3

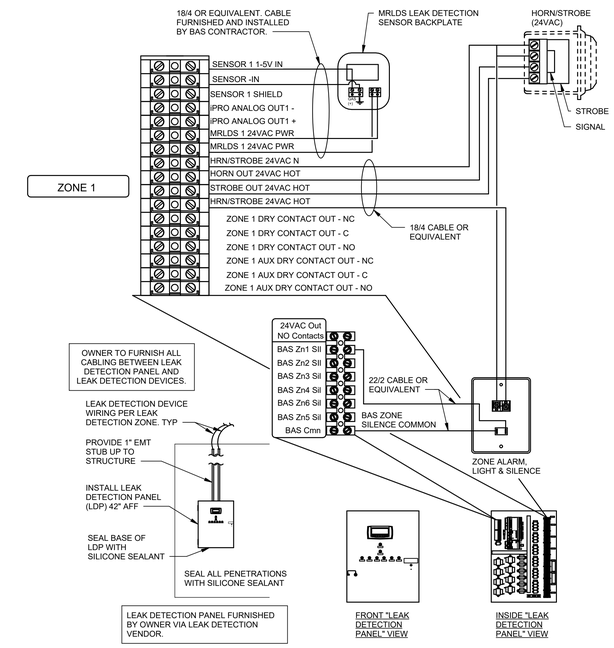
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3 LEAK DETECTION COOLER/FREEZER DEVICE MOUNTING (COPELAND)
NTS



2 LEAK DETECTION ZONE DEVICES ONE-LINE DIAGRAM
NTS



1 LEAK DETECTION PANEL INSTALLATION AND WIRING (COPELAND)
NTS

EXISTING CONDITIONS	EACH SUBCONTRACTOR
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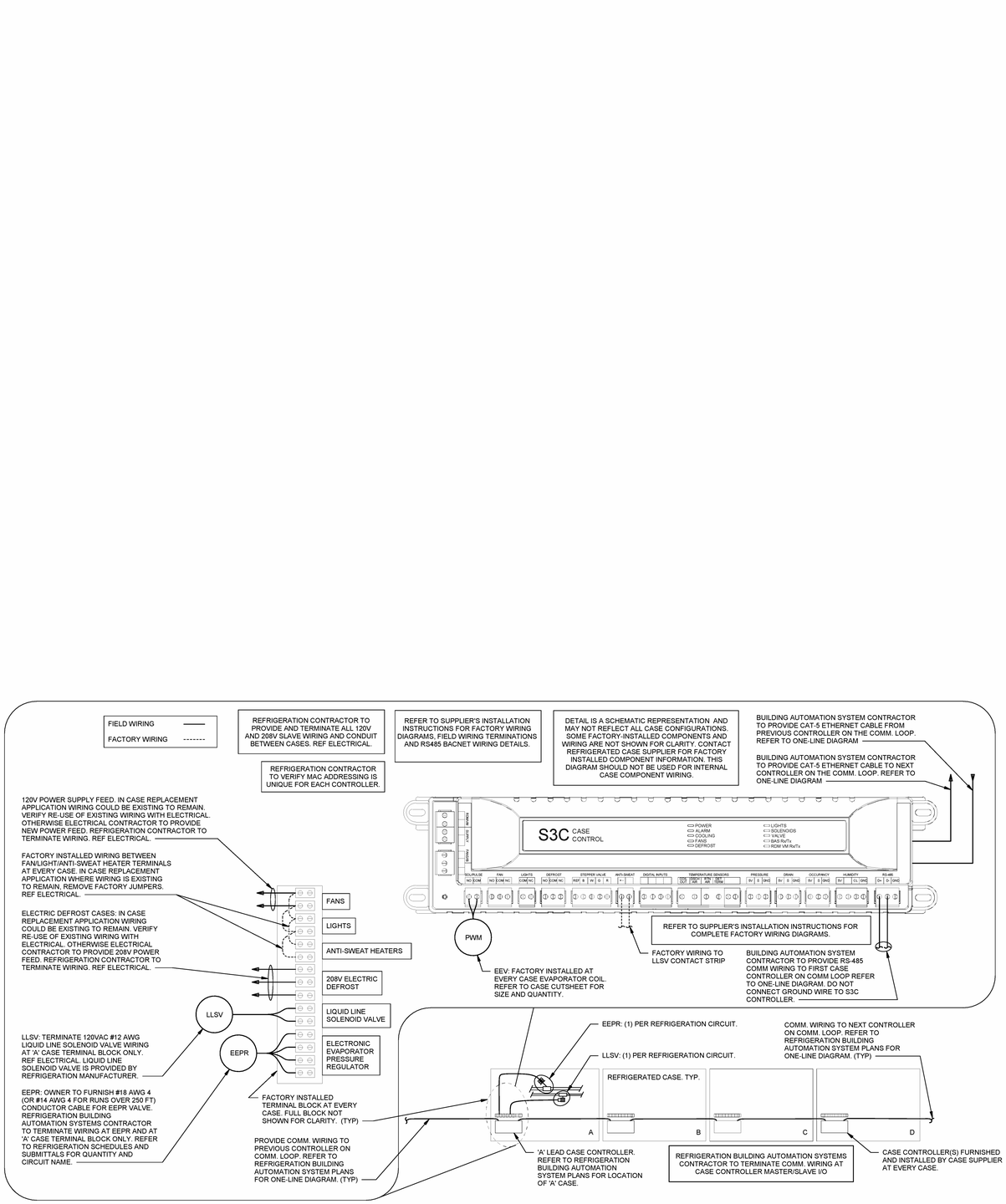
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12/3/2025

BUILDING AUTOMATION SYSTEM LEAK DETECTION DETAILS

SHEET:
BASR4



1 CASE CONNECTION SCHEMATIC (SPORLAN, EEV, WITH EEPR)
NTS

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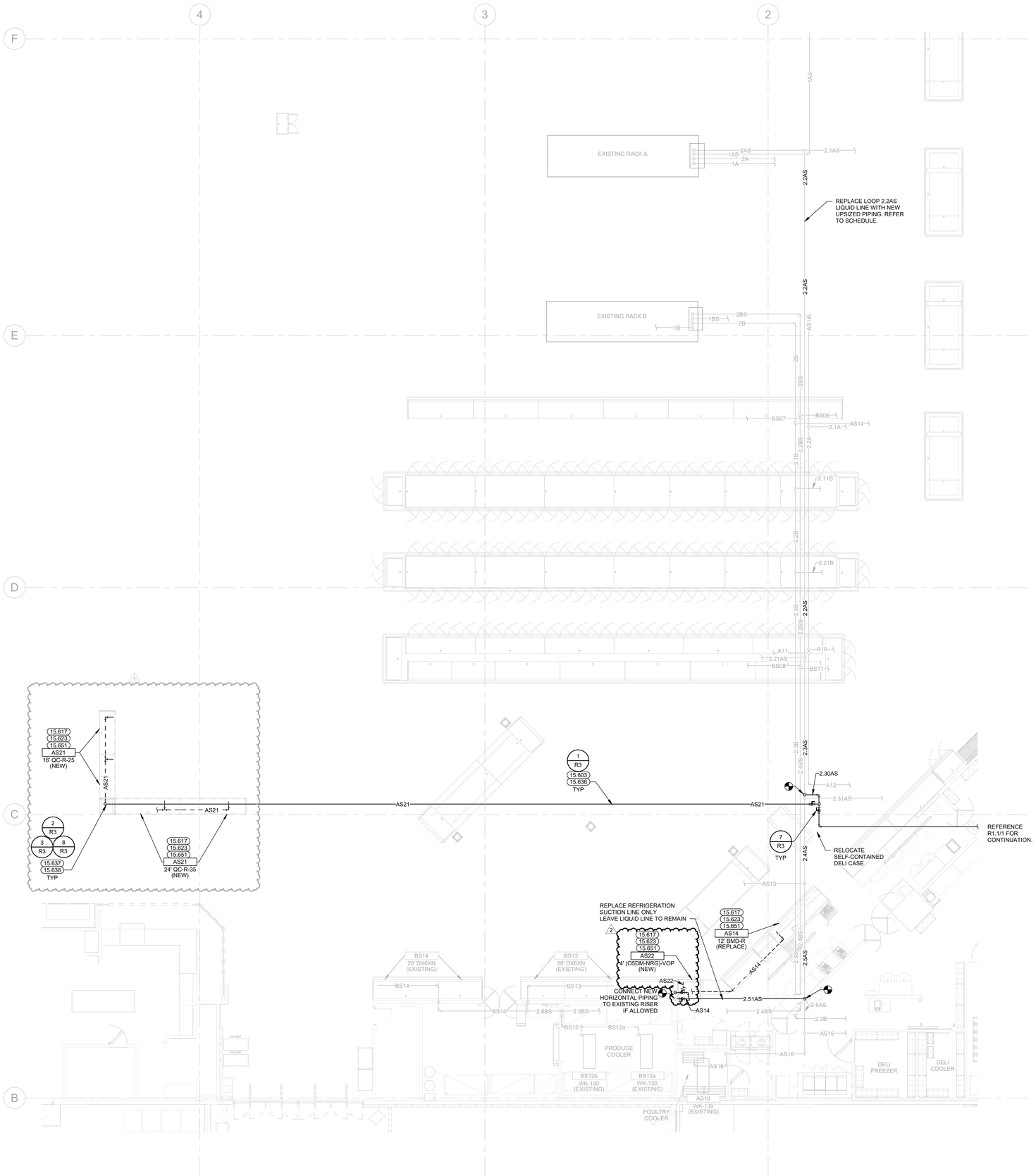
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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 050536 JARROD M. EASTERWOOD
01/07/2025

BUILDING AUTOMATION SYSTEM DETAILS

SHEET:
BASR5



1 REFRIGERATION PLAN
1/8" = 1'-0"

REFRIGERATION SYMBOLS

RM-09.25.18 | 11.02.15

XXX / XXX	CIRCUIT NUMBER / MODEL NUMBER (CIRCUIT INFO)
CO	CLEANOUT (CO)
	CONDENSATE DRAIN LINE (CD)
	CONNECT TO EXISTING
	CONTINUATION
X / XX	DETAIL NUMBER / SHEET NUMBER (DETAIL REFERENCE)
	EVAPORATOR COIL
	ISOLATION VALVE
	ELBOW - TURNED DOWN
	ELBOW - TURNED UP
XX.XXX	REFRIGERATION KEYNOTE REFERENCE
	REFRIGERATION PIPING (ABOVE)
	REFRIGERATION PIPING (BELOW)
	REFRIG PIPING CASE CONNECTION
ETR	EXISTING TO REMAIN
(TYP)	TYPICAL

KEYNOTES

15.603	SUPPORT HORIZONTAL RUNS OF REFRIGERANT LINES ON 1-5/8" X 1-5/8" UNISTRUT CHANNELS. REFER TO SPECIFICATIONS FOR PIPE HANGER SPACING.
15.617	PROVIDE PVC DRAIN LINE FROM EACH CASE DRAIN CONNECTION SAME SIZE AS CASE OUTLET, AND END OVER FLOOR RECEPTOR W/AIR GAP; PITCH DRAINS 1/8" PER 12". PROVIDE DRAIN COVER GRATE TO MATCH EXISTING. CONTRACTOR SHALL ENSURE RECEPTOR(S) AND DRAIN LINE(S) SERVING CASE LINE-UP ARE FREE OF OBSTRUCTIONS AND FUNCTION PROPERLY. WHERE EXTENSIVE DAMAGE EXISTS AND/OR PROPER DRAINAGE CANNOT BE OBTAINED COORDINATE WITH WALMART MECHANICAL CONSTRUCTION MANAGER.
15.623	ROUTE REFRIGERATION LINES IN BASE OF CASE FOR ALL BOTTOM FED CONNECTED CASES. SLOPE BACK TO LEAD CASE AT 1" PER 20'-0" OF RUN.
15.636	SLOPE REFRIGERANT LINES BACK TO COMPRESSORS AT 1" PER 20' OF RUN. LOCATE HIGHEST POINT OF REFRIGERATION LINES JUST BELOW BOTTOM CHORD OF JOIST OR BEAM. COORDINATE TO AVOID CONFLICTS WITH DUCTWORK, LIGHTING, SKYLIGHTS, PIPING, ETC.
15.637	AT ALL POINTS WHERE SUCTION LINES RISE, PROVIDE A SUCTION LINE TRAP AT THE BASE AND TOP OF THE RISER.
15.638	PROVIDE INTERMEDIATE SUCTION LINE TRAP IN WALL OR VOID SPACE. INTERMEDIATE TRAP SHOULD BE PLACED AT THE MIDPOINT OF ANY SUCTION LINE RISE WHICH EXCEEDS 16 FEET.
15.651	REFRIGERATION CONTRACTOR SHALL INSTALL REFRIGERATION MANUFACTURER-FURNISHED LIQUID LINE SOLENOID VALVE AND EVAPORATOR PRESSURE REGULATOR IN A SERVICE ACCESSIBLE LOCATION INSIDE CASE DRAIN PAN. CONTRACTOR SHALL FURNISH AND INSTALL FULL PORT ISOLATION BALL VALVE IN A SERVICE ACCESSIBLE LOCATION INSIDE CASE DRAIN PAN. INSTALL CONTROL WIRING FROM VALVES BACK TO CASE OR RACK CONTROLLER. REFER TO REFRIGERATION SUBMITTALS/SCHEDULES AND BAS PLANS FOR EXACT REQUIREMENTS. REFER TO SPECIFICATIONS FOR ASSET TAGGING REQUIREMENTS.

EPA CLEAN AIR ACT

COMPLY WITH CLEAN AIR ACT, TITLE VI, SECTION 608 AND CODE OF FEDERAL REGULATION TITLE 40, PART 82 WHEN ADDING OR REMOVING REFRIGERATED EQUIPMENT. RECORD ALL EQUIPMENT IDENTIFICATION NUMBERS, MODEL AND SERIAL NUMBERS, THE AMOUNT OF REFRIGERANT RECOVERED FROM EACH UNIT, THE DATE OF DECOMMISSIONING, COMPANY NAME AND SIGNATURE OF ON-SITE SUPERVISOR.

GENERAL NOTES

07.31.20

1. PLANS INDICATE GENERAL ROUTING OF REFRIGERANT LINES, WITH A SINGLE LINE SHOWN INDICATING BOTH SUCTION AND LIQUID LINE ROUTING FOR EACH SYSTEM.
2. REFRIGERATION SYSTEM INSTALLATION SHALL BE IN COMPLETE CONFORMANCE WITH SPECIFICATIONS, AND WITH ALL REQUIREMENTS OF REFRIGERATION EQUIPMENT SUPPLIER.
3. REFRIGERATION DRAWINGS ARE PROVIDED AS AN AID TO BIDDERS AND TO INDICATE DESIRED ROUTING OF REFRIGERATION LINES; CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR CORRECT INSTALLATION OF PIPING AND ACCESSORIES TO PROVIDE A COMPLETE AND FULLY OPERATING SYSTEM.
4. REFER TO SPECIFICATION 15600 FOR INSULATION THICKNESS. INSIDE DIAMETER OF INSULATION SHALL MATCH PIPE DIAMETER TO MINIMIZE AIR GAPS BETWEEN PIPING AND INSULATION. PROVIDE FACTORY PRE-MANUFACTURED FITTINGS AT ALL TRAPS AND ELBOWS. WHERE PRE-MANUFACTURED FITTINGS ARE UNAVAILABLE MITER CUT ALL FITTINGS TO ENSURE PROPER SEAL BETWEEN INSULATION SEGMENTS.
5. PIPE INSULATION SHALL BE BLACK, UNLESS OTHERWISE STATED ON PLANS OR SPECIFICATIONS.
6. COORDINATE REFRIGERATION DEMOLITION ISSUES WITH THE ARCHITECTURAL DRAWINGS. REFER TO ARCHITECTURAL PLANS FOR REFRIGERATION EQUIPMENT DEMOLITION AND COOLER REPAIR AND REMODELING.
7. REFRIGERATION SYSTEM SHALL REMAIN OPERATIONAL DURING REMODELING. DURING THE PHASING OF OLD TO NEW SYSTEMS, BOTH NEW AND OLD REFRIGERATION SYSTEMS MAY BE REQUIRED TO OPERATE AT THE SAME TIME FOR A SHORT PERIOD.
8. WHERE NEW REFRIGERATED EQUIPMENT IS INDICATED ON THE DRAWINGS, PROVIDE DEMOLITION, REMOVAL, AND TEMPORARY STORAGE OF OLD EQUIPMENT PER WALMART MECHANICAL SERVICES CONSTRUCTION MANAGER'S INSTRUCTIONS, AND REFRIGERATION DEMO NOTES.
9. COORDINATE REMOVAL AND DISPOSAL OF EXISTING EVAPORATORS, REFRIGERATED CASES, AND CONDENSING UNITS, WITH WALMART MECHANICAL SERVICES CONSTRUCTION MANAGER.
10. REMOVE COPPER LINES, EVAPORATORS, AND CONDENSATE LINES FROM COOLERS/ FREEZERS BEING REMOVED FROM SITE. COORDINATE WITH WALK-IN PANEL SUPPLIER FOR TIME LINE OF REPLACEMENT. REFERENCE SPECIFICATION FOR CONTACT INFORMATION.
11. WALK-IN PANEL SUPPLIER SHALL PROPERLY PREPARE ALL COOLER/FREEZER PANELS, GLASS DOORS, SLIDER OR SWING DOORS, PALLETIZE, AND PREPARE THE EQUIPMENT TO SHIP OFF SITE.
12. COORDINATE WITH FIRE PROTECTION CONTRACTOR FOR THE REMOVAL OF SPRINKLERS FOR ALL REMOVED COOLER/FREEZER BOXES.
13. COORDINATE WITH ELECTRICAL CONTRACTOR FOR THE REMOVAL OF ALL REMOVED COOLER/FREEZER BOXES ELECTRICAL WIRING DEVICES.
14. COORDINATE WITH BAS CONTRACTOR FOR THE REMOVAL OF ALL REMOVED COOLER/FREEZER BOXES BAS WIRING AND DEVICES.
15. EXISTING REFRIGERATION PIPING MAY BE RE-USED UNLESS OTHERWISE NOTED ON PLANS. REFER TO SCHEDULES FOR PIPE SIZE REQUIREMENTS.
16. BUILDING COMPONENTS ABANDONED BY THE SCOPE OF WORK SHALL BE SECURED TO PREVENT FALLING, LOOSENING, OR CREATING DAMAGE OF ANY KIND IN THE FUTURE.
17. IF ANY RACK SYSTEMS WILL BE OPENED TO ADD OR REPLACE CASES, EVAPORATORS, ETC. THEN 24 TO 48 HOURS AFTER THE WORK IS COMPLETED AND ALL FINAL ADJUSTMENTS HAVE BEEN MADE, PROVIDE AND CHANGE LIQUID LINE FILTER CORES, OIL SYSTEM FILTER USING SPORLAN OF STYLE FILTER, AND REPLACE SUCTION FILTERS. FILTERS ARE TO BE RATED FOR WAX REMOVAL. CONTRACTOR TO PROPERLY DISPOSE OF OIL AND COMPONENTS REPLACED. REFER TO SPECIFICATION 15600.
18. REFER TO GROCERY ARCHITECTURAL DRAWINGS FOR ADDITIONAL WORK BY REFRIGERATION CONTRACTOR.
19. INSTALL ASSET TAGS ON ALL NEW REFRIGERATED CASES AND COMPLETE THE DATA COLLECTION INFORMATION. DELETE DEMOED ASSETS FROM ASSET TAGGING APPLICATION. REFER TO SPECIFICATIONS.
20. UPON START-UP OF ALL NEW REFRIGERATED EQUIPMENT, CONSTRUCTION MANAGER SHALL REQUEST THE BUILDING PERFORMANCE REPORT FOR ALL RACKS AND SUCTION GROUPS WHERE WORK IS PERFORMED. ANY DEVIATIONS NOTED ON THE REPORT MUST BE CORRECTED PRIOR TO PROJECT CLOSE OUT. REQUEST VIA EMAIL AT B.PTEAM1@WAL-MART.COM

24 HOURS PRIOR TO SHUTTING DOWN ANY REFRIGERATION SYSTEMS, HVAC SYSTEMS OR ENERGY MANAGEMENT CONTROLS SYSTEMS, SEND EMAIL TO NSRM@WALMART.COM. THE E-MAIL SHALL STATE WHAT, WHY, AND WHEN IT IS BEING SHUT DOWN AND HOW LONG IT IS ANTICIPATED TO BE SHUT DOWN. THEN SEND A FOLLOW UP EMAIL TO NSRM@WALMART.COM AFTER THE WORK IS COMPLETE AND THE SYSTEM IS BACK UP AND RUNNING.

ALL WORK ON THIS SHEET IS TO BE COMPLETED BY A WALMART APPROVED CONTRACTOR.

REFRIGERATION CONTRACTOR IS RESPONSIBLE FOR ALL FINAL REFRIGERATION ELECTRICAL TERMINATIONS TO REFRIGERATION EQUIPMENT.

VERIFY EXACT LOCATION OF ALL REFRIGERATED CASES WITH FINAL MERCHANDISE PLAN.

COORDINATE LOCATION OF REFRIGERATED CASES WITH PLUMBING CONTRACTOR PRIOR TO CUTTING OF FLOOR AND SETTING DRAINS.

REMOVE EXISTING REFRIGERATION EQUIPMENT NOTED FOR DEMO OR REPLACEMENT, INCLUDING (BUT NOT LIMITED TO): REFRIGERATED CASES, WALK-IN COILS, ASSOCIATED VALVES, REFRIGERATION AND CONDENSATE PIPING, HANGERS AND SUPPORTS, AND CONTROLS NOT BEING REUSED. COORDINATE DISPOSAL OF EQUIPMENT WITH CONSTRUCTION MANAGER. PATCH PENETRATIONS TO MATCH EXISTING. REFER TO ARCHITECTURAL DRAWINGS.

PRIOR TO INSTALLING ANY EQUIPMENT OR ADJUSTING RACK PARAMETERS, REFRIGERATION CONTRACTOR SHALL REQUEST A SUCTION GROUP REPORT FOR ALL RACKS AND SUCTION GROUPS WHERE WORK IS PERFORMED. REQUEST VIA EMAIL AT B.PTEAM1@WAL-MART.COM

2 REFERENCE ARCHITECTURAL DRAWINGS FOR ALL NEW CASES BEING INSTALLED FOR CONNECTION LOCATION OF UTILITIES. (TOP FED VS BOTTOM FED)

GENERAL CONTRACTOR IS RESPONSIBLE FOR RE-SKIN OF EXISTING REFRIGERATED CASES TO REMAIN.

ALL EXISTING REFRIGERATED CASES ARE TO REMAIN UNLESS NOTED OTHERWISE.

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

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245001270
NC CORPORATION P-0451
EXPIRES 6/30/2026

Walmart

CAMERON, NC
2800 NC HWY 24-87
STORE NO: 00958.1000

JOB NUMBER: 245001270 | PROTO: 182

ISSUE BLOCK		
1	CCD#3	02/12/26
2	CCD#4	03/25/26

CHECKED BY:	JRW
DRAWN BY:	JN
PROTO CYCLE:	07/26/24
DOCUMENT DATE:	01/08/25

NORTH CAROLINA PROFESSIONAL SEAL 050536 ENGINEER JARROD M. EASTERWOOD

3/24/2026

FRONT REFRIGERATION PLAN

SHEET: R1

JARROD M. EASTERWOOD

PIPING SCHEDULE SYSTEM CU1 TCO2

PIPE DESIGNATION	HORIZONTAL SUCTION (IN.)	VERTICAL SUCTION RISER AS REQ'D (IN.)	LIQUID (IN.)	ESTIMATED TOTAL LENGTH^^ (FT.)
CU1 TCO2	5/8 - XHP	1/2 - XHP	1/2 - XHP	45

^ RISER SIZE IS SHOWN EVEN WHERE A RISER IS NOT EXPECTED. THIS IS FOR REFERENCE ONLY AND TO BE USED IN THE EVENT THAT A PIPING CONFLICT CAUSES THE NEED FOR A RISER. IF RISER LENGTH EXCEEDS 4 FEET, IT MUST BE APPROVED BY ENGINEER OF RECORD.

^^ESTIMATED TOTAL LENGTH INCLUDES HORIZONTAL AND VERTICAL PIPE SECTIONS. THIS IS ONLY AN ESTIMATE AND ACTUAL LENGTH WILL VARY.

Updated: 12/1/2025

NOTE: CONTENTS OF SCHEDULE CONTAINS INFORMATION DERIVED FROM OWNER'S RECORD SCHEDULES, MANUFACTURER SUBMITTALS, CUTSHEETS, AND OWNER'S DESIGN PARAMETERS AT THE TIME THE SCHEDULE WAS PREPARED. FIELD VERIFY AS IT MAY NOT REFLECT EXISTING CONDITIONS.

PIPING SCHEDULE SYSTEM CU2 TCO2

PIPE DESIGNATION	HORIZONTAL SUCTION (IN.)	VERTICAL SUCTION RISER AS REQ'D (IN.)	LIQUID (IN.)	ESTIMATED TOTAL LENGTH^^ (FT.)
CU2 TCO2*	5/8 - XHP	1/2 - XHP	1/2 - XHP	32 ****

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Updated: 12/1/2025

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PIPING SCHEDULE SYSTEM DTA

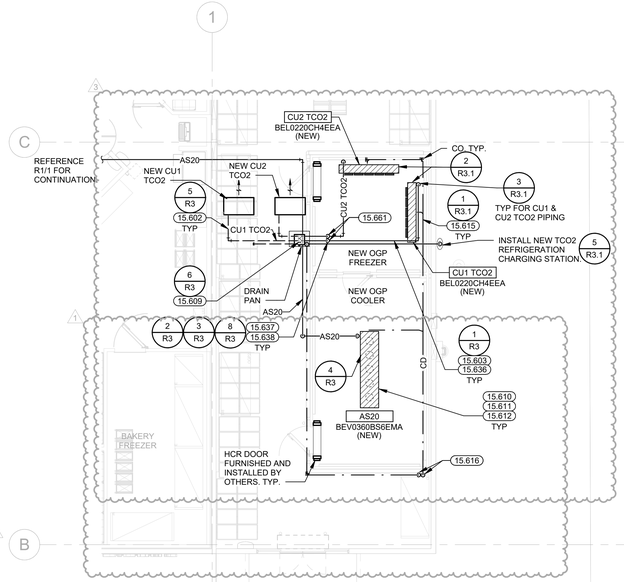
PIPE DESIGNATION	HORIZONTAL SUCTION (IN.)	VERTICAL SUCTION RISER AS REQ'D (IN.)	LIQUID (IN.)	ESTIMATED TOTAL LENGTH^^ (FT.)
1A	2 5/8	1 3/8 & 1 5/8	5/8	33
1.1A	1 1/8	5/8 & 5/8	1/2	47
A01	7/8	5/8 ^	1/2	10
A02	7/8	5/8 ^	1/2	12
1.2A	2 5/8	2 1/8 ^	5/8	119
A03	1 3/8	1 1/8	1/2	68
1.21A	2 1/8	1 3/8 ^	1/2	5
A04	1 1/8	7/8	1/2	31
A05	1 1/8	7/8	1/2	39
2A	2 5/8	1 3/8 & 1 5/8	5/8	81
2.1A	1 3/8	1 1/8 ^	1/2	21
2.11A	1 1/8	1/2 & 5/8	1/2	51
A06	7/8	5/8 ^	1/2	8
A07	7/8	5/8 ^	1/2	11
2.12A	1 1/8	1/2 & 5/8	1/2	28
A08	7/8	5/8 ^	1/2	8
A09	7/8	5/8 ^	1/2	11
2.2A	2 1/8	1 5/8 ^	5/8	42
A10	1 3/8	1 1/8	1/2	67
A11	1 3/8	1 1/8	1/2	124
A12	5/8	1/2	1/2	74
1AS	2 5/8	1 5/8 & 2 1/8	1 1/8	149
1.1AS	1 3/8	1 1/8	1/2	85
AS01a	7/8	5/8	1/2	8
1.11AS	1 3/8	7/8 ^	1/2	10
AS01b	7/8	5/8	1/2	8
AS01c	7/8	5/8	1/2	19
1.2AS	2 5/8	2 1/8 ^	1 1/8	5
AS02	1 5/8	1 3/8	5/8	89
1.3AS	2 5/8	1 5/8 ^	7/8	15
AS03	7/8	5/8	1/2	36
1.4AS	2 5/8	1 5/8 ^	7/8	18
AS04	1/2	3/8	1/2	29
1.5AS	2 5/8	1 5/8 ^	7/8	65
AS05	1 1/8	7/8	1/2	98
AS05a	7/8	5/8	1/2	9
AS05b	7/8	5/8	1/2	35
1.6AS	1 5/8	1 3/8	7/8	37
AS06a	1 1/8	7/8	1/2	8
1.61AS	1 5/8	1 1/8 ^	5/8	19
AS06b	1 1/8	7/8	1/2	8
AS06c	1 1/8	7/8	1/2	28
2AS	2 5/8	1 5/8 & 2 1/8	1 3/8	31
2.1AS	2 5/8	1 5/8 ^	7/8	30
AS07	5/8	1/2	1/2	67
2.11AS	2 1/8	1 5/8 ^	7/8	12
AS08	1 5/8	1 3/8	5/8	73
AS09	1 3/8	1 1/8	5/8	46
2.2AS	2 5/8	2 1/8 ^	1 1/8	95
2.21AS	1 5/8	1 3/8	5/8	105
2.22AS	1 3/8	1 1/8 ^	5/8	15
AS17	1 1/8	7/8	1/2	65
AS18	1 1/8	7/8	1/2	65
AS10	7/8	5/8	1/2	35
2.3AS	2 1/8	1 3/8 ^	7/8	26
2.30AS*	1 5/8 ****	1 3/8 ^	5/8 ****	5 ***
AS20*	1 1/8 ****	7/8 ****	1/2 ****	115 ****
AS21*	1 5/8 ****	1 1/8 ****	5/8 ****	155 ****
2.31AS	1 1/8	7/8 ^	1/2	26
AS11	7/8	7/8	1/2	47
AS12	5/8	5/8	1/2	35
2.4AS	1 5/8	1 1/8 ^	5/8	22
AS13	1 1/8	7/8	1/2	66
2.5AS	1 3/8	7/8 ^	1/2	16
2.51AS*	7/8 ****	1/2 ^	1/2 ****	50 ****
AS22*	5/8 ****	1/2 #	1/2 ****	50 ****
AS23 *	5/8 ****	1/2 ****	1/2 ****	25 ****
2.6AS	1/8	7/8 ^	1/2	7
AS15	5/8	1/2	1/2	51
AS16	7/8	5/8	1/2	35

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Updated: 3/11/2026

NOTE: CONTENTS OF SCHEDULE CONTAINS INFORMATION DERIVED FROM OWNER'S RECORD SCHEDULES, MANUFACTURER SUBMITTALS, CUTSHEETS, AND OWNER'S DESIGN PARAMETERS AT THE TIME THE SCHEDULE WAS PREPARED. FIELD VERIFY AS IT MAY NOT REFLECT EXISTING CONDITIONS.



1 REFRIGERATION OGP PLAN
1/8" = 1'-0"

GENERAL NOTES

REFER TO SHEET R1 FOR GENERAL NOTES PERTAINING TO THIS SHEET.

PIPING AND REFRIGERATION SCHEDULE SYMBOLS

RM-10.06.20

*	MODIFY CIRCUIT OR PIPE LENGTH
**	NEW CASE, COIL, CIRCUIT OR VALVE
****	CHANGE EXISTING PIPE SIZE AS INDICATED OR NEW PIPE
^	RISER SIZE IS SHOWN EVEN WHERE A RISER IS NOT EXPECTED. THIS IS FOR REFERENCE ONLY AND IS TO BE USED IN THE EVENT THAT A PIPING CONFLICT CAUSES THE NEED FOR A RISER. IF THE RISER LENGTH EXCEEDS 4 FEET, IT MUST BE APPROVED BY ENGINEER OF RECORD.
#	CONTRACTOR TO FIELD VERIFY EXISTING RISER SIZE. IF EXISTING PIPE SIZE DOES NOT MATCH SCHEDULE, REPLACE EXISTING RISER WITH NEW SIZE AS SHOWN.

KEYNOTES

15.602 PROVIDE 0.020" UV-RESISTANT WHITE PVC JACKET ON ALL REFRIGERATION LINES EXTERIOR TO BUILDING.

15.603 SUPPORT HORIZONTAL RUNS OF REFRIGERANT LINES ON 1-5/8" X 1-5/8" UNISTRUT CHANNELS. REFER TO SPECIFICATIONS FOR PIPE HANGER SPACING.

15.609 COORDINATE REFRIGERATION LINE ROUTING THROUGH ROOF. ROOF REINFORCEMENTS, PENETRATION, AND HOOD SUPPLIED BY OTHERS. COORDINATE EXACT SIZE AND LOCATION OF ROOF PENETRATIONS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS. COORDINATE WITH OTHER TRADES UTILIZING PENETRATION FOR SPACE ALLOCATION.

15.610 PROVIDE AIRTIGHT SEAL AROUND ALL PIPING AND BOLT PENETRATIONS THROUGH COOLER/FREEZER BOX WALLS OR CEILINGS.

15.611 SUPPORT UNIT COOLERS WITH BOLTS THROUGH ROOF TO 1-5/8" X 1-5/8" X 10' LONG 14 GA. GALVANIZED UNISTRUT SPANNING THREE ROOF PANELS. PROVIDE DOUBLE NUTS ON EACH BOLT.

15.612 SEE SCHEDULES FOR UNIT COOLER TYPES, SIZES, AND CAPACITIES; CONTROL METHOD; AND ALL REFRIGERATION PIPING SIZES, ETC.

15.615 CONDENSATE DRAIN; PITCH DRAIN LINES DOWN APPROXIMATELY 1/8" PER 12" TOWARD DRAIN. PROVIDE COPPER PIPING WITH ELECTRIC HEAT TAPE AND INSULATION ON ALL CONDENSATE LINES EXPOSED TO FREEZING TEMPERATURES.

15.616 END CONDENSATE LINE OVER RECEPTOR W/AIR GAP. CONTRACTOR SHALL ENSURE FLOOR DRAIN(S) AND DRAIN LINE(S) SERVING WALK-IN ARE FREE OF OBSTRUCTIONS AND FUNCTION PROPERLY. WHERE EXTENSIVE DAMAGE EXISTS AND/OR PROPER DRAINAGE CANNOT BE OBTAINED COORDINATE WITH WALMART MECHANICAL CONSTRUCTION MANAGER.

15.636 SLOPE REFRIGERANT LINES BACK TO COMPRESSORS AT 1" PER 20' OF RUN. LOCATE HIGHEST POINT OF REFRIGERATION LINES JUST BELOW BOTTOM CHORD OF JOIST OR BEAM. COORDINATE TO AVOID CONFLICTS WITH DUCTWORK, LIGHTING, SKYLIGHTS, PIPING, ETC.

15.637 AT ALL POINTS WHERE SUCTION LINES RISE, PROVIDE A SUCTION LINE TRAP AT THE BASE AND TOP OF THE RISER.

15.638 PROVIDE INTERMEDIATE SUCTION LINE TRAP IN WALL OR VOID SPACE. INTERMEDIATE TRAP SHOULD BE PLACED AT THE MIDPOINT OF ANY SUCTION LINE RISE WHICH EXCEEDS 16 FEET.

15.661 REFRIGERATION CONTRACTOR SHALL INSTALL REFRIGERATION RACK MANUFACTURER-FURNISHED LIQUID LINE SOLENOID VALVE, SUCTION LINE CHECK VALVE, AND CO2 VALVE STATIONS IN A SERVICE ACCESSIBLE LOCATION ON TOP OF WALK-IN BOX. REFER TO CO2 VALVE STATION DETAIL. INSTALL CONTROL WIRING FROM SOLENOID VALVE BACK TO CIRCUIT CONTROLLER. REFER TO SPECIFICATIONS FOR ASSET TAGGING REQUIREMENTS.

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELF WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

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PROJECT NO. P-2451
NC CORPORATION NO. P-0476
EXPIRES 6/30/2026

Walmart
CAMERON, NC
2800 NC HWY 24-87
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JOB NUMBER: 182

ISSUE BLOCK		
1	PR#2	07/25/25
2	ADD#2	9/10/25
3	CCD#1	12/04/25
4	CCD#3	02/12/26
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DOCUMENT DATE:	01/08/25

NORTH CAROLINA PROFESSIONAL SEAL 050536 ENGINEER JARROD M. EASTERWOOD

3/24/2026

REAR REFRIGERATION PLAN

SHEET: R1.1

JARROD M. EASTERWOOD

REFRIGERATION SCHEDULE SYSTEM DTA

Format:	Supercenter	Store #:	6958	System Type:	Hybrid House	Refrigerant:	R407A	Refrig. OEM:	Kysor/Warren	Condenser Type	Air	Heat Reclaim Media:	N/A	SG1 Refrig. Liquid Temp (°F):	50	SG2 Refrig. Liquid Temp (°F):	50	SG3 Refrig. Liquid Temp (°F):	N/A	EXTERIOR DRY BULB (DB) (°F):	101.8		
Proto Size:	Remodel	City/State:	Cameron, NC	Consultant:	HEI	Estimated Refrigerant Charge (lbs):	N/A	Refrig. EMS:	NOVAR	Sat. Cond. Temp (°F):	117	Heat Reclaim Use:	N/A	SG1 Comp RGT (°F):	30	SG2 Comp RGT (°F):	50	SG3 Comp RGT (°F):	N/A	5 yr. Extreme DB from ASHRAE Pub.	2021		
Proto Cycle Date:	8/30/2024	Elevation (ft):	218	Prepared By:	Dolan Caffrey	Rack & Cond. Charge (lbs):		System Elec:	460V 3Ph 60Hz	Cond. Design TD (°F):	15	Heat Reclaim Water (GPM):	--							EXTERIOR WET BULB (WB) (°F):	82.4		
Date Prepared:	11/8/2024	Design DB (°F) / WB (°F):	102°F / 82°F	Interior Design DB (°F) / RH%:	75°F / 55%	Fixture and Field Piping (lbs):	N/A	Sys. Pilot Elec:	208V 1 Ph	Cond. Elec	460V 3 Ph 60Hz	Est. Winter THR Avail (MBH):	N/A	Est. Summer THR (MBH):	N/A	Evap. Superheat (°F):	10			0.4% Monthly Max WB from ASHRAE Pub.	2021		
								Defrost Elec:	208V 60Hz 1 or 3 Ph											ASHRAE Design Conditions Weather Station:	POPE AFB, NC		

	Case Fixture Length / Quantity					Walk-In Box Size																			
CKT #	FT /# of Doors	2 Dr/4'	3 Dr/6'	4 Dr/8'	5 Dr/12'	L	W	H	Case/Coil Model	Case/Coil Manuf.	Application	LSHX Y or N? & Model # WI Evaps	Evaporator Coil TXV / Distributor Nozzle	Sub-Circuit Load (MBH)	Circuit Load (MBH)	Evap SST	Case/ Walk-In Air Temp	Circuit Control Valves EPR	Circuit Control Valves LLSV	Defrost Type	Defrost Heaters Amps	Defrost Heaters Voltage	Fans Amps	Fans Voltage	Lights Amps (120v)	Anti-Sweat Amps (120v)	Comments	Equip Number	CKT #
A01	8 FT			1					FWG	HUSSMANN	Dual Temp Coffin Island			--	4.8	-20	-12	CDST-4	E3	EL	15.4	208/1	0.5	120/1	--	2.1	ANTI-SWEAT ON FAN CIRCUIT	RD6011.205 - 4/10/2014	A01
A02	12 FT		2						FWEG	HUSSMANN	Dual Temp Coffin End			--	5.0	-20	-12	CDST-4	E3	EL	13.1	208/1	0.2	120/1	--	--	ANTI-SWEAT ON FAN CIRCUIT	RD6010.205 - 4/10/2014	A02
A03						18	17	12	BML-220	BOHN	I.C. FREEZER W.I.	N			22.0	-20	-10	CDST-9	E5	EL	16.0	208/3	2.8	208/1	--	--		-	A03
A04						34	18	12	LLE-136	BOHN	1/2 GROCERY FREEZER	N			16.0	-14	-2	CDST-7	E3	EL	9.0	208/3	208.0	2	--	--		-	A04
A05						34	18	12	LLE-136	BOHN	1/2 GROCERY FREEZER	N			16.0	-14	-2	CDST-7	E3	EL	9.0	208/3	208.0	2	--	--		-	A05
A06	8 FT			1					FWG	HUSSMANN	Dual Temp Coffin Island			--	4.8	-20	-12	CDST-4	E3	EL	15.4	208/1	0.5	120/1	--	2.1	ANTI-SWEAT ON FAN CIRCUIT	RD6011.205 - 4/10/2014	A06
A07	12 FT		2						FWEG	HUSSMANN	Dual Temp Coffin End			--	5.0	-20	-12	CDST-4	E3	EL	13.1	208/1	0.2	120/1	--	1.3	ANTI-SWEAT ON FAN CIRCUIT	RD6010.205 - 4/10/2014	A07
A08	8 FT			1					FWG	HUSSMANN	Dual Temp Coffin Island			--	4.8	-20	-12	CDST-4	E3	EL	15.4	208/1	0.5	120/1	--	2.1	ANTI-SWEAT ON FAN CIRCUIT	RD6011.205 - 4/10/2014	A08
A09	12 FT		2						FWEG	HUSSMANN	Dual Temp Coffin End			--	5.0	-20	-12	CDST-4	E3	EL	13.1	208/1	0.2	120/1	--	1.3	ANTI-SWEAT ON FAN CIRCUIT	RD6010.205 - 4/10/2014	A09
A10	18 DRS		1		3				RN6SL	KYSOR/WARREN	Reach-in I.C.			--	22.0	-18	-11	CDST-9	E5	EL	16.8/16.8/16.8/10.1	208/1	6.5	120/1	2.5	13.4	---	RD3015.142 - 4/10/2014	A10
A11	15 DRS				3				RN6SL	KYSOR/WARREN	Reach-in I.C.			--	18.3	-18	-11	CDST-7	E5	EL	16.8/16.8/16.8	208/1	5.4	120/1	2.1	11.1	---	RD3015.142 - 5/29/2014	A11
A12	2 DRS	1							RN6SL	KYSOR/WARREN	Reach-in I.C. Cake			--	2.4	-18	-11	CDST-2	E3	EL	6.7	208/1	0.7	120/1	0.3	1.6	---	RD3015.142 - 5/29/2014	A12
A13											SPARE STUB			--													SPARE STUB FOR FUTURE USE		A13
														SUCTION GROUP #1 REQUIRED CAPACITY (MBH):	126.1	-23	(°F) Suction Temperature												
AS01	MAIN CIRCUIT - SUBCIRCUITS ARE BELOW					33	29	12		BOHN-LEGACY	Meat Cooler W.I.		TOTAL MAIN CIRCUIT		42.3	20	28	CDST-7	E6	EL	52.2	208/1	4.5	208/1	--	--		-	AS01
AS01a									WKE-180	BOHN-LEGACY	1/3 Meat Cooler W.I.	N/A		14.1	--	20	28			EL	17.4	208/1	1.5	208/1	--	--		-	AS01a
AS01b									WKE-180	BOHN-LEGACY	1/3 Meat Cooler W.I.	N/A		14.1	--	20	28			EL	17.4	208/1	1.5	208/1	--	--		-	AS01b
AS01c									WKE-180	BOHN-LEGACY	1/3 Meat Cooler W.I.	N/A		14.1	--	20	28			EL	17.4	208/1	1.5	208/1	--	--		-	AS01c
AS02	48 FT				4				DR6XN	KYSOR/WARREN	M.D. Rear Load Dairy			--	63.5	25	31	CDST-9	E9	OT	--	--	5.3	120/1	8.6	--	---	RD4022.511 - 5/29/2014	AS02
AS03	MAIN CIRCUIT - SUBCIRCUITS ARE BELOW									HUSSMANN	M.T. Coffin Island w/2 Ends		TOTAL MAIN CIRCUIT		9.7	19	24	CDST-4	E3	EL	--	--	1.2	120/1	--	5.5	CIRCUIT LOAD AND ELECTRICAL ARE TOTALS OF SUBCIRCUITS	RD6011.005 \ RD6010.005 - 5/28/2014 \ 4/10/2014	AS03
AS03a	16 FT		2						FWG	HUSSMANN	M.T. Coffin Island			6.6	--	19	24			EL	--	--	1.0	120/1	--	4.2	ANTI-SWEAT ON FAN CIRCUIT	RD6011.005 - 5/28/2014	AS03a
AS03b	12 FT			2					FWEG	HUSSMANN	M.T. Coffin End			3.1	--	19	24			EL	--	--	0.2	120/1	--	1.3	ANTI-SWEAT ON FAN CIRCUIT	RD6010.005 - 4/10/2014	AS03b
AS04	12 FT			2					FWEG	HUSSMANN	M.T. Coffin Ends			--	3.1	19	24	CDST-2	E3	EL	13.1	208/1	0.2	120/1	--	1.3	ANTI-SWEAT ON FAN CIRCUIT	RD6010.005 - 4/10/2014	AS04
AS05	MAIN CIRCUIT - SUBCIRCUITS ARE BELOW					48	9	11		BOHN-LEGACY	Dairy Cooler W.I.		TOTAL MAIN CIRCUIT		24.8	23	35	CDST-7	E5	OT	--				--	--		-	AS05
AS05a									ADT-104	BOHN-LEGACY	1/2 Dairy Cooler W.I.	N/A		12.4	--	23	35			OT	--	--	--		--	--		-	AS05a
AS05b									ADT-104	BOHN-LEGACY	1/2 Dairy Cooler W.I.	N/A		12.4	--	23	35			OT	--		---		--	--		-	AS05b
AS06	MAIN CIRCUIT - SUBCIRCUITS ARE BELOW					57	23	11		BOHN-LEGACY	Dairy Cooler W.I. w/ drs.		TOTAL MAIN CIRCUIT		81.0	23	35	CDST-17	E9	OT	--		13.5	120/1	--	--		-	AS06
AS06a									ADT-260	BOHN-LEGACY	1/3 Dairy Cooler W.I. w/ drs.	N/A		27.0	--	23	35			OT	--		4.5	120/1	--	--		-	AS06a
AS06b									ADT-260	BOHN-LEGACY	1/3 Dairy Cooler W.I. w/ drs.	N/A		27.0	--	23	35			OT	--		4.5	120/1	--	--		-	AS06b
AS06c									ADT-260	BOHN-LEGACY	1/3 Dairy Cooler W.I. w/ drs.	N/A		27.0	--	23	35			OT	--		4.5	120/1	--	--		-	AS06c
AS07	MAIN CIRCUIT - SUBCIRCUITS ARE BELOW									HUSSMANN			TOTAL MAIN CIRCUIT		8.2	19	24	CDST-4	E3	EL	--	208/3	0.7	120/1	--	4.4	CIRCUIT LOAD AND ELECTRICAL ARE TOTALS OF SUBCIRCUITS	RD6010.005 \ RD6011.005 - 4/10/2014 \ 5/28/2014	AS07
AS07a	12 FT			2					FWEG	HUSSMANN	M.T. Coffin Ends			3.1	--	19	24			EL	--	208/3	0.2	120/1	--	1.3	ANTI-SWEAT ON FAN CIRCUIT	RD6010.005 - 4/10/2014	AS07a
AS07b	12 FT				1				FWG	HUSSMANN	M.T. Coffin Island			5.1	--	19	24			EL	--	208/3	0.5	120/1	--	3.1	ANTI-SWEAT ON FAN CIRCUIT	RD6011.005 - 5/28/2014	AS07b
AS08	44 FT			1	3				OHMH-NRG	HILL PHOENIX	M.D. Meat			--	58.6	22	29	CDST-9	E9	OT	--	--	3.8	120/1	12.9	--	---	RD4003.351 - 3/18/2014	AS08
AS09	36 FT				3				OHMH-NRG	HILL PHOENIX	M.D. Meat			--	48.0	22	29	CDST-9	E6	OT	--	--	3.0	120/1	10.5	--	---	RD4003.351 - 3/18/2014	AS09
AS10	8 FT			1					P4386	BORGEN	Upright Floral Case			--	10.8	30	40	CDST-4	E3	OT	--	--	0.9	120/1	1.5	--	---	RD4016.901 - 5/13/2014	AS10
AS11	24 FT				2				BX3LN	KYSOR/WARREN	M.D. Cake			--	17.7	26	31	CDST-4	E5	OT	--	--	2.6	120/1	4.5	--	---	RD1018.851 - 3/17/2014	AS11
AS12						14	9	10	WK-130	BOHN-LEGACY	Bakery Cooler W.I.	N/A		--	10.2	25	35	CDST-4	E3	OT	--	--	1.8	120/1	--	--		-	AS12
AS13	MAIN CIRCUIT - SUBCIRCUITS ARE BELOW									SOUTHERN			TOTAL MAIN CIRCUIT		24.3	26	30	CDST-7	E5	OT	--	--	1.3	120/1	4.2	--	CIRCUIT LOAD AND ELECTRICAL ARE TOTALS OF SUBCIRCUITS	RD1006.601 \ RD1006.651 \ RD1005.651 - 5/17/2012	AS13
AS13a	6 FT		1						MDC-50LC	SOUTHERN	HMR Deli			5.2	--	26	30			OT	--	--	0.3	120/1	0.7	--	---	RD1006.601 - 5/17/2012	AS13a
AS13b	6 FT		1						MDC-50LC	SOUTHERN	HMR Deli			5.2	--	26	30			OT	--	--	0.3	120/1	0.7	--	---	RD1006.651 - 5/17/2012	AS13b
AS13c	8 FT			1					MDC-50LCDS	SOUTHERN	HMR Deli			13.9	--	26	30			OT	--	--	0.7	120/1	2.8	--	---	RD1005.651 - 5/17/2012	AS13c
AS14 *	12 FT				1				BMD-R **	BARKER/HILL...	Service Deli			--	8.4	24	30	CDST-4 **	E3 **	OT	--	--	1.8	120/1	1.0	--		RD2020.642 - 8/28/2020	AS14 *
AS15						13	9	10	ADT-104	BOHN-LEGACY	Deli Cooler W.I.	N/A		--	9.7	25	35	CDST-4	E3	OT	--	--	1.8	120/1	--	--		-	AS15
AS16						10	10	10	WKE-155	BOHN-LEGACY	Poultry Cooler W.I.	N/A		--	10.6	20	28	CDST-4	E3	EL	17.4	208/1	1.0	208/1	--	--		-	AS16
AS17	28 FT			2	1				Q3.5-SS-EC	HUSSMANN	M.D. Produce Island			--	26.2	20	32	CDST-7	E5	OT	--	--	1.7	120/1	2.3	--	---	RD1038.752 - 7/20/2015	AS17
AS18	28 FT			2	1				Q3.5-SS-EC	HUSSMANN	M.D. Produce Island			--	26.2	20	32	CDST-7	E5	OT	--	--	1.7	120/1	2.3	--	---	RD1038.752 - 7/20/2015	AS18
AS19											Subcooler Load Rack A			--	43.4												-	AS19
AS20 *						30	16	10	BEV0360BS6EMA **	BOHN	Pickup Cooler	N/A	EGNE1 1/2-C / #2 **	--	24.7	26	34	CDST-7 **	E5 **	EL	30.4	208/1	2.1	208/1	--	--		-	AS20 *
AS21	6 FT			2					SC-6LC	HILL PHOENIX	Single Deli			5.2	--	24	30	CDST-4 **	E3 **	OT	--	--	0.3	120/1	0.7	--	TOTAL LIGHTS AND USES FOUR ROWS OF SHELF LIGHTS	RD1006.651 - 5/17/2012	AS21
AS22	6 FT			2					SC-6LC	HILL PHOENIX	Single Deli			5.2	--	24	30	CDST-4 **	E3 **	OT	--	--	0.3	120/1	0.7	--	LOADS DO NOT REFLECT ANGLED RELIEVES OR PEG HOOKS	RD1006.651 - 5/17/2012	AS22
														SUCTION GROUP #2 REQUIRED CAPACITY (MBH):	602.8	17	(°F) Suction Temperature												

General Notes:

1.) Owner's designated refrigeration equipment manufacturer: Kysor/Warren.
2.) Contractor shall field verify existing status of data shown for modified racks and notify engineer of any discrepancies.
3.) Contents of schedule contains information derived from Owner's record schedules, supplier submittals, cutsheets, and Owner's design parameters at the time the schedule was prepared. Field verify as it may not reflect existing conditions.
4.) The scheduled data for existing to remain components, circuit loads, and electrical conditions are reproduced from original design documents and may not reflect exact as-built conditions.

Updated: 3/18/2026

REFRIGERATION SCHEDULE SYSTEM CU1 TCO2

Format:	Supercenter	Store #:	6958	System Type:	Remote Condensing Unit	Refrigerant:	R744	Refrig. OEM:	Carrier	Gas Cooler Type	Air	Heat Reclaim Media:	N/A	SG1 Refrig. Liquid Temp (°F):	36	SG2 Refrig. Liquid Temp (°F):	N/A	SG3 Refrig. Liquid Temp (°F):	N/A	EXTERIOR DRY BULB (DB) (°F):	96.8		
Proto Size:	Remodel	City/State:	Cameron, NC	Consultant:	HEI	Estimated Refrigerant Charge (lbs):	N/A	Refrig. EMS:	CPC	Flash Tank Sat. Temp...	36	Heat Reclaim Use:	N/A	SG1 Comp RGT (°F):	30	SG2 Comp RGT (°F):	N/A	SG3 Comp RGT (°F):	N/A	0.4% Monthly Max DB from ASHRAE Pub.	2021		
Proto Cycle Date:	n/a	Elevation (ft):	218	Prepared By:	Carl Knox	Rack & Cond. Charge (lbs):		System Elec:	208/220V 3ph 60Hz	Gas Cooler Leaving...	--	Heat Reclaim Water (GPM):	--							EXTERIOR WET BULB (WB) (°F):	82.4		
Date Prepared:	9/30/2025	Design DB (°F) / WB (°F):	97°F / 82°F	Interior Design DB (°F) / RH%:	75°F / 55%	Fixture and Field Piping (lbs):	N/A	Sys. Pilot Elec:	120V 1Ph	Gas Cooler Elec	208/220V 3 Ph 60Hz	Est. Winter THR Avail (MBH):	N/A	Est. Summer THR (MBH):	N/A	Evap. Superheat (°F):	10			0.4% Monthly Max WB from ASHRAE Pub.	2021		
								Defrost Elec:	208V 60Hz 1 or 3 Ph											ASHRAE Design Conditions Weather Station:	POPE AFB, NC, USA		

	Case Fixture Length / Quantity					Walk-In Box Size																			
CKT #	FT /# of Doors	2 Dr/4'	3 Dr/6'	4 Dr/8'	5 Dr/12'	L	W	H	Case/Coil Model	Case/Coil Manuf.	Application	LSHX Y or N? & Model # WI Evaps	Evaporator Coil TXV / Distributor Nozzle	Sub-Circuit Load (MBH)	Circuit Load (MBH)	Evap SST	Case/ Walk-In Air Temp	Circuit Control Valves EPR	Circuit Control Valves LLSV	Defrost Type	Defrost Heaters Amps	Defrost Heaters Voltage	Fans Amps	Fans Voltage	Lights Amps (120v)	Anti-Sweat Amps (120v)	Comments	Equip Number	CKT #
CU1 TCO2						17	17	10	BEL0220CH4EEA	BOHN-CO2 (90bar)	Pickup Freezer W.I.	Y		--	16.6	-20	-10			EL	14.2	208/3	2.5	208/1	--	--		-	CU1 TCO2
														SUCTION GROUP #1 REQUIRED CAPACITY (MBH):	16.6	-21	(°F) Suction Temperature												

General Notes:

1.) LLSV(S) shall be contractor installed and owner furnished through refrigeration equipment supplier: Carrier.
2.) OEM to ensure adequate size of compressors and condenser to meet 105% NRE at the scheduled ambient temperature conditions above.
3.) System to be rated at 90 Bar
4.) Defrost controlled via CC200. Timeclock, defrost contractors, and thermostat are not required for RCU control.
5.) CU1 TCO2 is a a new system

Updated: 12/1/2025

REFRIGERATION SCHEDULE SYSTEM CU2 TCO2

Format:	Supercenter	Store #:	6958	System Type:	Remote Condensing Unit	Refrigerant:	R744	Refrig. OEM:	Carrier	Gas Cooler Type	Air	Heat Reclaim Media:	N/A	SG1 Refrig. Liquid Temp (°F):	36	SG2 Refrig. Liquid Temp (°F):	N/A	SG3 Refrig. Liquid Temp (°F):	N/A	EXTERIOR DRY BULB (DB) (°F):	96.8		
Proto Size:	Remodel	City/State:	Cameron, NC	Consultant:	HEI	Estimated Refrigerant Charge (lbs):	N/A	Refrig. EMS:	208/220V 3ph 60Hz	Flash Tank Sat. Temp...	36	Heat Reclaim Use:	N/A	SG1 Comp RGT (°F):	30	SG2 Comp RGT (°F):	N/A	SG3 Comp RGT (°F):	N/A	5 yr. Extreme DB from ASHRAE Pub.	2021		
Proto Cycle Date:	n/a	Elevation (ft):	970	Prepared By:	Carl Knox	Rack & Cond. Charge (lbs):		System Elec:	208V 60Hz 1 or 3 Ph	Gas Cooler Leaving...	--	Heat Reclaim Water (GPM):	--							EXTERIOR WET BULB (WB) (°F):	82.4		
Date Prepared:	9/30/2025	Design DB (°F) / WB (°F):	97°F / 82°F	Interior Design DB (°F) / RH%:	75°F / 55%	Fixture and Field Piping (lbs):	N/A	Sys. Pilot Elec:	120V 1Ph	Gas Cooler Elec	208/220V 3 Ph 60Hz	Est. Winter THR Avail (MBH):	N/A	Est. Summer THR (MBH):	N/A	Evap. Superheat (°F):	10			0.4% Monthly Max WB from ASHRAE Pub.	2021		
																						ASHRAE Design Conditions Weather Station:	WINSTON-SALEM REYNOLDS, NC, USA		

	Case Fixture Length / Quantity					Walk-In Box Size																			
CKT #	FT /# of Doors	2 Dr/4'	3 Dr/6'	4 Dr/8'	5 Dr/12'	L	W	H	Case/Coil Model	Case/Coil Manuf.	Application	LSHX Y or N? & Model # WI Evaps	Evaporator Coil TXV / Distributor Nozzle	Sub-Circuit Load (MBH)	Circuit Load (MBH)	Evap SST	Case/ Walk-In Air Temp	Circuit Control Valves EPR	Circuit Control Valves LLSV	Defrost Type	Defrost Heaters Amps	Defrost Heaters Voltage	Fans Amps	Fans Voltage	Lights Amps (120v)	Anti-Sweat Amps (120v)	Comments	Equip Number	CKT #
CU2 TCO2						17	17	10	BEL0220CH4EEA	BOHN-CO2 (90bar)	Pickup Freezer W.I.	Y		--	16.6	-18	-8			EL	14.2	208/3	2.5	208/1	--	--		-	CU2 TCO2
														SUCTION GROUP #1 REQUIRED CAPACITY (MBH):	16.6	-19	(°F) Suction Temperature												

General Notes:

1.) LLSV(S) shall be contractor installed and owner furnished through refrigeration equipment supplier: Carrier.
2.) OEM to ensure adequate size of compressors and condenser to meet 105% NRE at the scheduled ambient temperature conditions above.
3.) Systen to be rated at 90 Bar
4.) Defrost controlled via CC200. Timeclock, defrost contractors, and thermostat are not required for RCU control.
5.) CU2 TCO2 is a new system

Updated: 12/1/2025

FAN-COIL UNIT EQUIPMENT SCHEDULE

TRANSCRITICAL CO2 FAN-COIL UNITS

MARK	COIL MODEL	MANUFACTURER	ELECTRONIC EXPANSION VALVE (SIZE)	LIQUID LINE SOLENOID VALVE (SIZE)	FIXTURE ELECTRICAL: DEFROST HEATERS TYPE	DEFROST HEATERS AMPS	DEFROST HEATERS 208/3	FANS AMPS	FANS VOLTAGE/PHASE	NOTES
CU1 TCO2	BEL0220CH4EEA	BOHN	SER (OEM SIZED)	EVUL 2	EL	14.2	208/3	2.5	208/1	B, C
CU2 TCO2	BEL0220CH4EEA	BOHN	SER (OEM SIZED)	EVUL 2	EL	14.2	208/3	2.5	208/1	B, C

GENERAL INFORMATION

1. ALL TCO2 CONDENSING UNIT FAN-COILS, LLSV(S), AND SUCTION RETURN LINE CHECK VALVES SHALL BE CONTRACTOR INSTALLED AND OWNER FURNISHED THROUGH REFRIGERATION EQUIPMENT SUPPLIER: KYSOR WARREN.
2. FAN-COILS, SLSV(S), AUTO-FLOW RETURN BALANCE VALVES AND SUCTION RETURN LINE CHECK VALVES SHALL BE CONTRACTOR INSTALLED AND OWNER FURNISHED THROUGH REFRIGERATION EQUIPMENT SUPPLIER: KYSOR...
3. FAN-COIL UNITS SHALL BE FURNISHED WITH ALL ASSOCIATED ACCESSORIES AS OUTLINED IN THE 15690 EQUIPMENT SPECIFICATION.

NOTES:

A. REQUIRES RETURN LINE CHECK VALVE
B. REQUIRES SERVICE ACCESS VALVE
C. REQUIRES SUCTION LINE CHECK VALVE

REFRIGERATION TCO2 CONDENSING UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	LOCATION	REFRIGERANT	SUCTION GROUP SST (°F)	MAXIMUM CAPACITY (MBH)	VOLTAGE	SCCR	MCA	MOPD	NOTES
CU1 TCO2	CARRIER	CO2Y LT112 PK 208V	ROOF	R744	-21	18.49	460V 3Ph 60Hz	10KA	23.9	30	A
CU2 TCO2	CARRIER	CO2Y LT112 PK 208V	ROOF	R744	-19	19.89	460V 3Ph 60Hz	10KA	23.9	30	A

GENERAL NOTES:

1. TCO2 CONDENSING UNITS SHALL BE CONTRACTOR INSTALLED AND OWNER FURNISHED THROUGH REFRIGERATION EQUIPMENT SUPPLIER: CARRIER.
2. CONDENSING CAPACITIES ARE BASED ON NRE.
3. CONDENSING UNIT SHALL BE FURNISHED WITH A FACTORY INSTALLED DISCONNECT.
4. CONDENSING UNIT CONTROLLER FACTORY INSTALLED IN CU.
5. ROOF CURB FURNISHED BY OWNER, INSTALLED BY CONTRACTOR. REFER TO SPECIFICATIONS.
6. REFER TO SUBMITTALS SHEETS FOR ADDITIONAL CU INFORMATION.
6. EXTERNALLY LABEL PACKS WITH BLACK LETTERS. LOCATE LABEL SO IT IS READABLE FROM THE NEAREST ROOF ACCESS. REFERENCE SPECIFICATIONS FOR LABEL TYPE AND SIZE.

NOTES:

A. CONDENSING UNIT RATED FOR 80 BAR.
B.
C.
D.

OWNER FURNISHED REFRIGERATION CONTROLS & EQUIPMENT SCHEDULE

Manufacturer	VENDOR SAP #	Type	VOLTAGE	Count	NOTES
COPELAND COLD CHAIN LP	1000214394	Horn Strobe		3	
COPELAND COLD CHAIN LP	1000214394	LDP		1	
COPELAND COLD CHAIN LP	1000214394	MRLDS		1	
COPELAND COLD CHAIN LP	1000214394	Zone Alarm		1	
KE2THERM	1000211094	KE2 Door Switch		3	
KE2THERM	1000211094	KE2-RE2 Evap 40A (20178/20844)		3	
MULTITECH	1000929314	Sporlan Gateway Router (SGR)		1	
NOVAR	1000211094	Novar xcm.LCD w/ XFMR		1	
BOHN	1000108507	BEL-0220	208 V	2	
BOHN	1000108507	BEV-0360	208 V	1	

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JARROD M. EASTERWOOD

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ISSUE BLOCK

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2	CCD#1	12/04/25
3	CCD#4	3/25/26

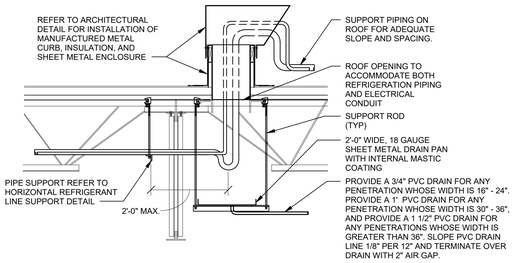
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PROTO CYCLE: 07/26/24
DOCUMENT DATE: 01/08/25

NORTH CAROLINA PROFESSIONAL SEAL 050536 ENGINEER JARROD M. EASTERWOOD

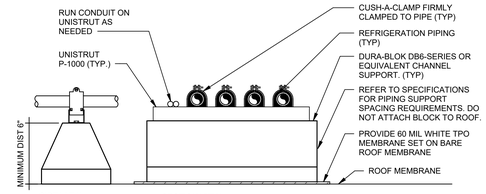
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REFRIGERATION SCHEDULES

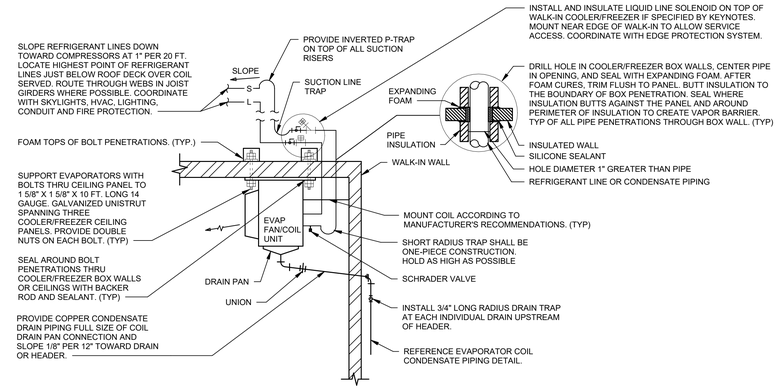
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6 ROOF PENETRATION
NTS

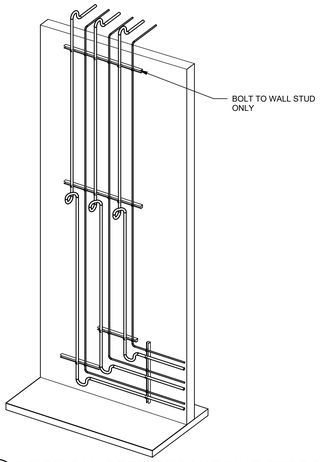


5 REFRIGERATION PIPING SUPPORT (ON ROOF)(DX)(TCO2)
NTS

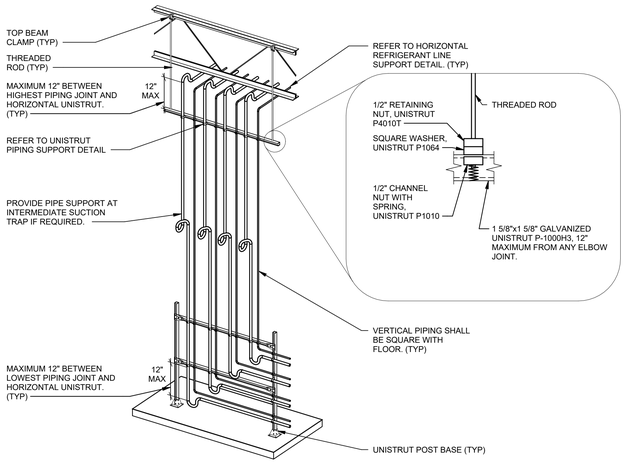


4 EVAPORATOR FAN/COIL UNIT WITH CONTROL VALVES
NTS

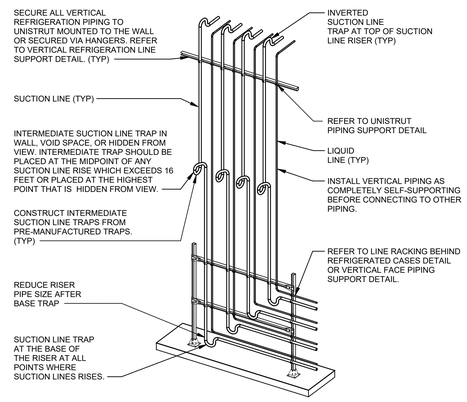
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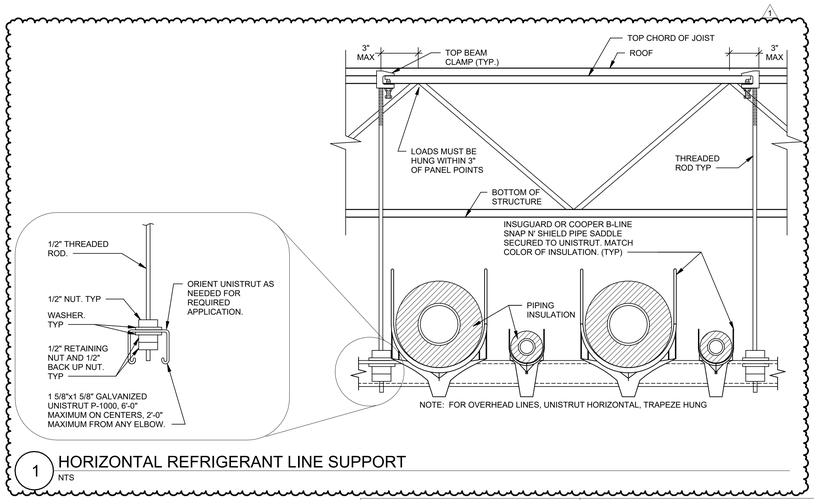
OPTION 2: VERTICAL REFRIGERATION PIPING SUSPENDED VIA HANGERS



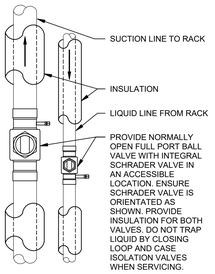
3 VERTICAL REFRIGERANT LINE SUPPORT (DX)
NTS



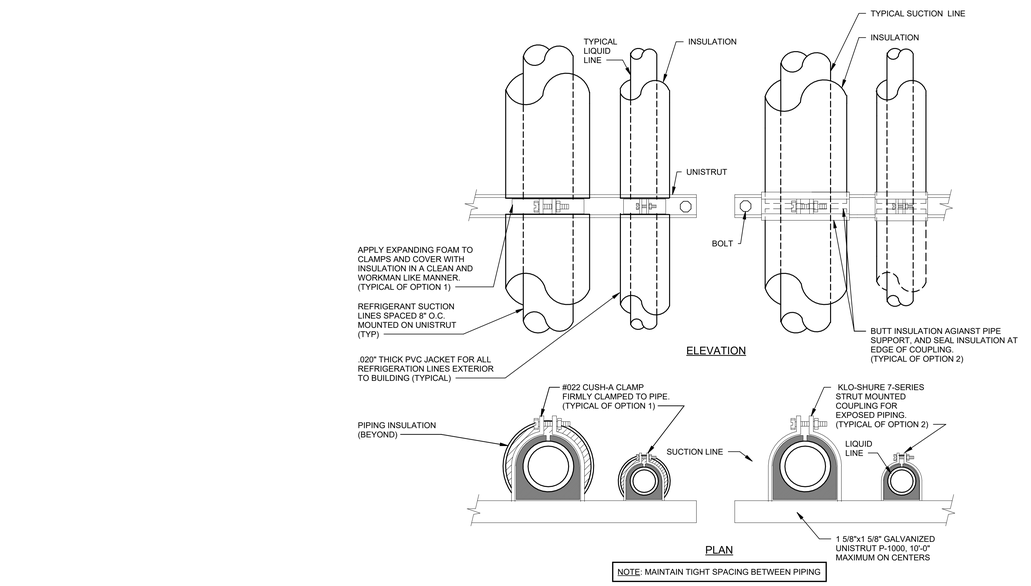
2 INTERMEDIATE SUCTION LINE TRAP
NTS



1 HORIZONTAL REFRIGERANT LINE SUPPORT
NTS



7 REFRIGERATION ISOLATION VALVES
NTS



8 UNISTRUT PIPING SUPPORT DETAIL (DX)
NTS

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2800 NC HWY 24-87
STORE NO: 00958.1000

JOB NUMBER: 2450001270 PROTO: 182

ISSUE BLOCK

1	CCD#1	12/04/25

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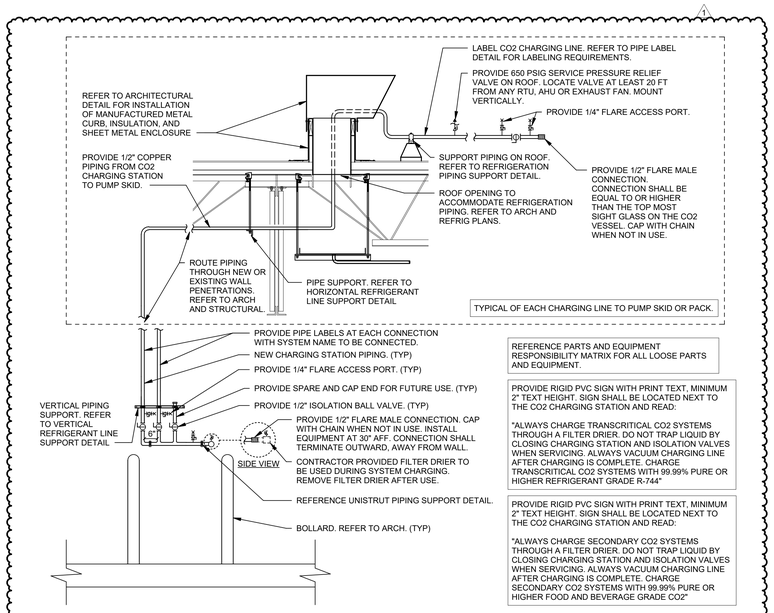
NORTH CAROLINA PROFESSIONAL SEAL 050536 ENGINEER JARROD M. EASTERWOOD

12/3/2025

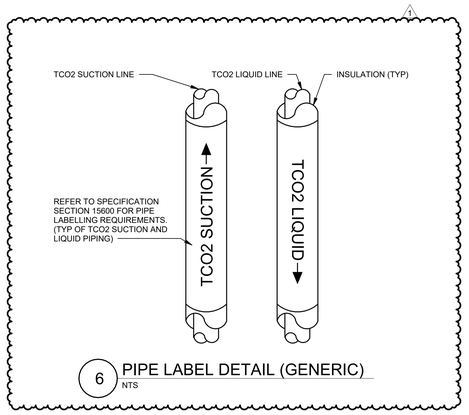
REFRIGERATION DETAILS

SHEET: R3

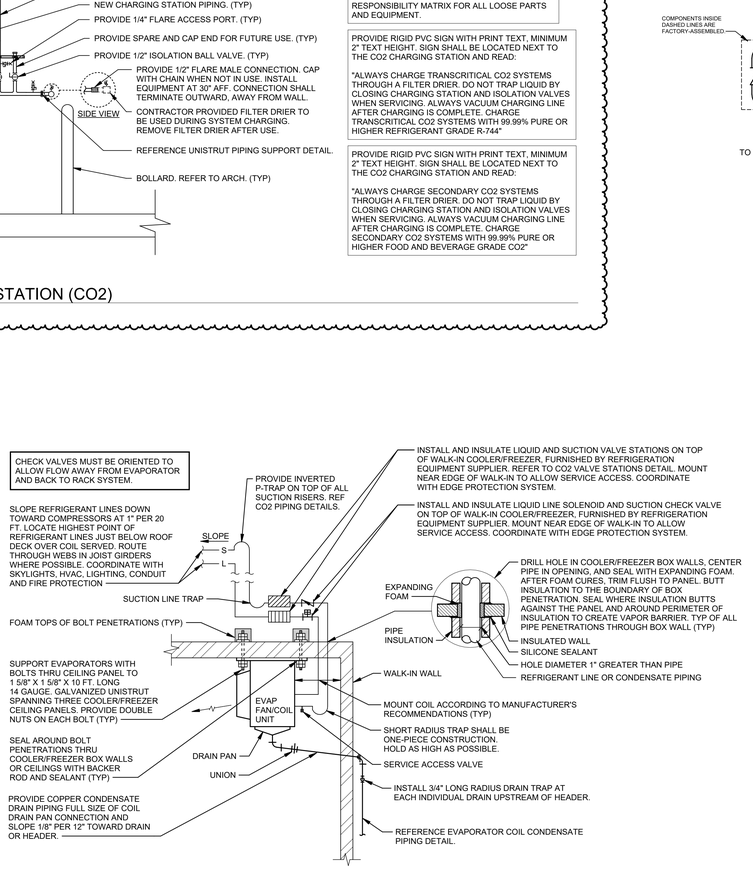
JARROD M. EASTERWOOD



5 CHARGING STATION (CO2)
NTS



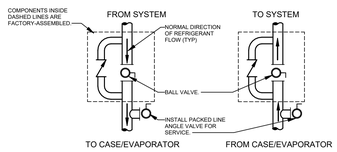
6 PIPE LABEL DETAIL (GENERIC)
NTS



2 CO2 DX EVAPORATOR FAN/COIL UNIT WITH CONTROL VALVES
NTS

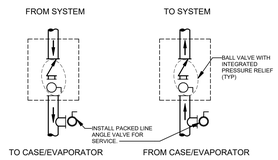
EXTERNAL CHECK VALVE

INSTALL ONE VALVE STATION PER CIRCUIT AND AT OTHER LOCATION(S) SPECIFIED ON PLANS



INTERNAL CHECK VALVE (SPORLAN MODEL EBV -- ALLOWABLE IN LINES 1 1/8" AND SMALLER)

INSTALL ONE VALVE STATION PER CIRCUIT AND AT OTHER LOCATION(S) SPECIFIED ON PLANS

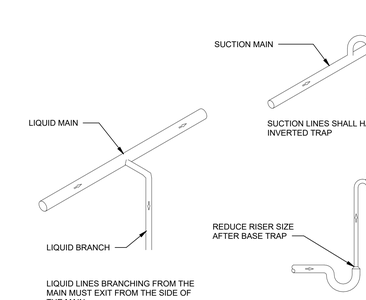


PROVIDE INSULATION THAT COMPLETELY ENCAPSULATES ALL SURFACES. REFER TO SPECIFICATIONS.

VALVE STATIONS MUST BE ORIENTED WITH CHECK VALVE (INTERNAL OR EXTERNAL) ALLOWING FLOW AWAY FROM UNIT COOLER AND BACK TO SECONDARY PUMP SKID OR RACK SYSTEM.

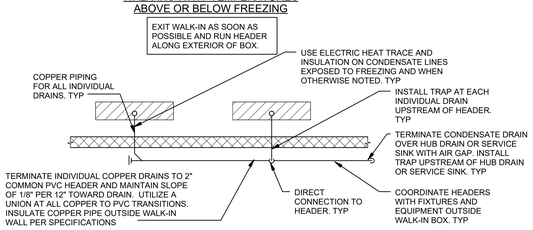
CO2 VALVE STATIONS AND PACKED LINE ANGLE VALVES FURNISHED BY REFRIGERATION RACK EQUIPMENT SUPPLIER AND INSTALLED BY REFRIGERATION CONTRACTOR.

4 CO2 VALVE STATIONS (TCO2)
NTS

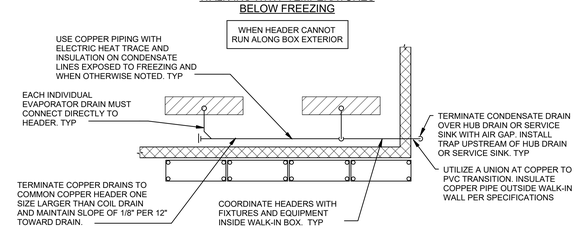


3 PIPING DETAILS (TCO2)
NTS

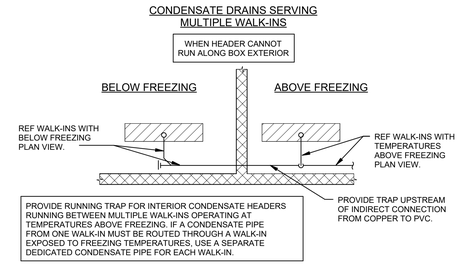
WALK-INS WITH TEMPERATURES ABOVE OR BELOW FREEZING



WALK-INS WITH TEMPERATURES BELOW FREEZING

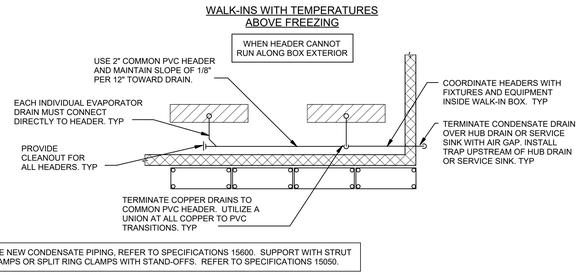


CONDENSATE DRAINS SERVING MULTIPLE WALK-INS



PROVIDE RUNNING TRAP FOR INTERIOR CONDENSATE HEADERS RUNNING BETWEEN MULTIPLE WALK-INS OPERATING AT TEMPERATURES ABOVE FREEZING. IF A CONDENSATE PIPE FROM ONE WALK-IN MUST BE ROUTED THROUGH A WALK-IN EXPOSED TO FREEZING TEMPERATURES, USE A SEPARATE DEDICATED CONDENSATE PIPE FOR EACH WALK-IN.

WALK-INS WITH TEMPERATURES ABOVE FREEZING



PROVIDE NEW CONDENSATE PIPING, REFER TO SPECIFICATIONS 15600. SUPPORT WITH STRUT AND CLAMPS OR SPLIT RING CLAMPS WITH STAND-OFFS. REFER TO SPECIFICATIONS 15050.

1 UNIT COOLER COIL CONDENSATE PIPING
NTS

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CORPORATE NC
NC CORPORATE P.E. P-0451
EXPIRES 6/30/2026

Walmart
CAMERON, NC
2800 NC HWY 24-87
STORE NO: 06938.1000
JOB NUMBER: 24500127D | PROTO: | 182

ISSUE BLOCK

1	CCD#1	12/04/25

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DOCUMENT DATE:	01/08/25

NORTH CAROLINA PROFESSIONAL SEAL 050536 ENGINEER JARROD M. EASTERWOOD

12/3/2025

REFRIGERATION DETAILS

SHEET
R3.1

JARROD M. EASTERWOOD

Rack A	**RNSS-D8-L028-M072-V4XLA-A**
Model No:	TD440-100-VS-4-FXSLI-A

Store / Cust:	Walmart 6958
Location:	Spout Springs, NC USA
Quote / Job::	702479, Rev 0 , Rev
Proto Size:	Super Center 182
Equipment Type:	Hybrid House

OEM:	Heatcraft Worldwide Refrigeration
Phone Number:	706-568-1514
Prepared By:	Mital, Manu
Date:	7/22/2015

EMS Manufacture:	Novar
Rack EMS Model #:	Opus

Field Connection:

Rev.	Date	By:	Description:
1	8/13/2015	M. Mital	Updated compressor...
3	1/12/2015	M. Mital	CCD 2 issued by EOR o...
3	5/10/2016	Watson, L	Changed per CCD 3
4	10/29/2024	TAC	Chgs per seq 1000 [KW]

Power	Main	Control
Voltage	460/60/3	208/60/1
MCA	285.1	0
MOPD	300	0

Transformer (KVA)
6

Refrigerant Type	R407A														
Condenser Model #	BNL-D12-A100	Coated (Y/N)	N	Discharge		Heat Reclaim		Liquid		Receiver		Subcooler	
Fan RPM	830	Fin Spacing (FPI)	10	Manifold Size	2-5/8	Water/Air	Water	Line size from reciever	1-5/8	Orientation	H	Heat Exchgr Model	SC 14
T.D.	14.4			Disch. Regulator	None	Desuperheating or Full Cond	Desuperheating	Manifold	2-5/8	Dia. x Length	12.75 x 135	S.G.1 Subcooler Load(MBH)	43.4
FLA	39.6			Main Condenser Supply	2-5/8	Heat Exchanger Model #	D16DWX130	Drier	STAS19213T	Lbs. @ 80% Pumpdown	525	S.G.2 Subcooler Load(MBH)	158.2
MOPD	45					Heat Reclaim Valve	A82BL	Sightglass	A18122	Condenser Flooding Charge	37	Total Subcooler Load(MBH)	201.6
Weight (lbs)	4230			Oil System		GPM	18	Main Condenser Return	2-1/8	Rack & Cond Ref. Charge	579	Sat Suct Temp (°F)	35
VFD	VFD CT 460V 30HP 48A EMERSON			Discharge Oil Separator	OS12-31CR	Isol. Valve To	2-5/8	Drain Regulator	A82-1-5/8	Reciever Pressurization	X55-CROT-6...	Subcooler Controller Model	RCC
Split	50	50		Oil Reservoir	OR6-3A	Isol. Valve From	2-5/8	Liquid Pressure Regulator	CDST-17-11	Surge Solenoid	None	Expansion Valve #1	Sporlan SERI-F
Solenoid	OE43S1170-HP	OE43S1170-HP		Oil Brand Type	Oil EAL Artic-22 CC			LPR Bypass Solenoid	None	Operating Pressure	450	Expansion Valve #2	None
Rack to Condenser Line Size	2-5/8	2-5/8		Oil Differential Valve	Y1236-C							Liquid Solenoid Valve #1	E19S270
Condenser to Rack Line Size	2-5/8	2-5/8										Liquid Solenoid Valve #2	None
												Subcooler EPR Valve	CDST 17-13
												Isol. Valve To	7/8"
												Isol. Valve From	1 5/8"

Suction Group 1 Design Requirements		Suction Group 1 System Capabilities		System Piping Connections		Liquid	Suction	Defrost
Total Load Required (MBH)	126.1	Net Refrig Effect Available (MBH)	157.6	Loop 1A	(Vertical Double Riser)	5/8	1 5/8 & 1 3/8	None
Condensing Temp. (°F)	117	% Net Refrig Effect Avail	125.0%	Loop 2A	(Vertical Double Riser)	5/8	1 5/8 & 1 3/8	None
Outdoor Design DB Temp. (°F)	102	Comp. Gross Capacity Available (MBH)	175.2	Spare		7/8	1-5/8	None
Saturated Suction Temp. (°F)	-23	Total Heat of Rejection (MBH)	231.1					
Return Gas Temp. (°F)	30	Suction Manifold Size	4-1/8					
Subcooled Liquid Temp. (°F)	50	Suction Filter	5CFA-42S					
Superheat for NRE(°F)	10	Suction Accumulator	A10-25					

Compressor	Suction Group 1	Net Refrig.		Comp	Condenser Heat of	Variable	VFD	Min. Var.	Max. Var.	Unloader	Unloader	HP	RPM	RLA	LRA
Position	Compressor Model	Effect (MBH)	% of Load	Capacity (MBH)	Rejection (MBH)	Capacity?	Model	Capacity	Capacity		%				
1	3DSDF46KL-TFD-C27	39.4	29.1%	43.8	57.8	YES	None	3.7	36.6	Digital	90.0%	7.0	1,750	14.68	106.00
2	3DS3F46KL-TFD-C27	39.4	29.1%	43.8	57.8	NO	None	36.6	36.6			7.0	1,750	14.68	106.00
3	3DS3F46KL-TFD-C27	39.4	29.1%	43.8	57.8	NO	None	36.6	36.6			7.0	1,750	14.68	106.00
4	3DS3F46KL-TFD-C27	39.4	29.1%	43.8	57.8	NO	None	36.6	36.6			7.0	1,750	14.68	106.00
5															
6															
7															
8															

Compressor	Compressor	% of Required Load		
Staging	On	From	To	
Step 1	1	2.9	29.1	(LT28)
Step 2	1,2	32.0	58.1	
Step 3	1,2,3	61.0	87.2	
Step 4	1,2,3,4	90.1	116.2	
Step 5				
Step 6				
Step 7				
Step 8				

Suction Group 2 Design Requirements		Suction Group 2 System Capabilities		System Piping Connections		Liquid	Suction	Defrost
Total Load Required (MBH)	602.8	Net Refrig Effect Available (MBH)	642.0	Loop 1AS	(Vertical Double Riser)	1-1/8	2 1/8 & 1 5/8	None
Condensing Temp. (°F)	117	% Net Refrig Effect Avail	106.5%	Loop 2AS	(Vertical Double Riser)	1-3/8	2 1/8 & 1 5/8	None
Outdoor Design DB Temp. (°F)	102	Comp. Gross Capacity Available (MBH)	696.0	Spare		7/8	1-5/8	None
Saturated Suction Temp. (°F)	17	Total Heat of Rejection (MBH)	989.5	Sub Cooler A		7/8"	1 5/8"	None
Return Gas Temp. (°F)	50	Suction Manifold Size	4-1/8					
Subcooled Liquid Temp. (°F)	50	Suction Filter	(2) BTAS-525SV					
Superheat for NRE(°F)	10	Suction Accumulator	(2) S-7727KW					

Compressor	Suction Group 2	Net Refrig.		Comp	Condenser Heat of	Variable	VFD	Min. Var.	Max. Var.	Unloader	Unloader	HP	RPM	RLA	LRA
Position	Compressor Model	Effect (MBH)	% of Load	Capacity (MBH)	Rejection (MBH)	Capacity?	Model	Capacity	Capacity		%				
1	4DJXR28ML-TSK-C27	160.5	26.6%	174.0	247.4	YES	None	72.9	145.8	Digital	50.0%	18.0	1,750	42.18	235.00
2	4DRNR28ML-TSK-C27	160.5	26.6%	174.0	247.4	YES	None	72.9	145.8	1	50.0%	18.0	1,750	42.18	235.00
3	4DJNR28ML-TSK-C27	160.5	26.6%	174.0	247.4	NO	None	145.8	145.8			18.0	1,750	42.18	235.00
4	4DJNR28ML-TSK-C27	160.5	26.6%	174.0	247.4	NO	None	145.8	145.8			18.0	1,750	42.18	235.00
5															
6															
7															
8															

Compressor	Compressor	% of Required Load		
Staging	On	From	To	
Step 1	1	14.0	27.9	(MT72)
Step 2	1,2u	27.9	41.9	
Step 3	1,2	41.9	55.9	
Step 4	1,2u,3	55.9	69.8	
Step 5	1,2,3	69.8	83.8	
Step 6	1,2u,3,4	83.8	97.8	
Step 7	1,2,3,4	97.8	106.5	
Step 8				

Store /Customer	Walmart Cameron NC
Location	Cameron NC
Store #	6958 RCU1
Job #	6958-1000
Date	16/07/2025
Type	CO2Y LT112 PK 208V
Refrigerant	R-744

Evaporating Conditions	
SST(F)	-21
Ambient (F)	97

Compressor Data	
Compressor Model	DY45 +DY67
Refrigerating Capacity (BTUH)	17740
Frequency Converter (Rps)	96
Min. Capacity @ 25 RPS (BTUH)	4610
Max. Capacity @ 100 RPS (BTUH)	18490
Power Input (BTUH)	3510
Mass Flow (Lbs/H)	174.61
Heating Capacity Gas Cooler (BTUH)	28520
COP (Est.)	1.64

Electrical Data	
Power	208/3/60
Comp 1 (RLA)	10
Comp 2 (RLA)	9.3
Fan (RLA)	1.1
Controls	1
MCA	23.9
MOPD	30

Piping Connections (inches)	
Liquid	3/8"
Suction	1/2"

Sound	
dB(A) @ 32 Ft	35

Dimensions (in.)	Length	Width	Height
	47.2	26.9	65.6
Weight (lbs.)		467.4	

Store /Customer	Walmart Cameron NC
Location	Cameron NC
Store #	6958 RCU1
Job #	6958-1000
Date	16/07/2025
Type	CO2Y LT112 PK 208V
Refrigerant	R-744

Evaporating Conditions	
SST(F)	-19
Ambient (F)	97

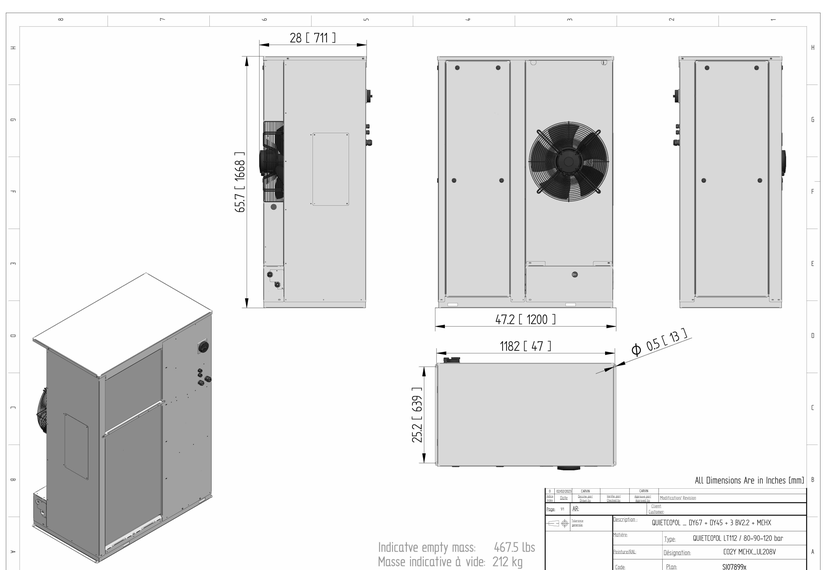
Compressor Data	
Compressor Model	DY45 +DY67
Refrigerating Capacity (BTUH)	18150
Frequency Converter (Rps)	90
Min. Capacity @ 25 RPS (BTUH)	4980
Max. Capacity @ 100 RPS (BTUH)	19890
Power Input (BTUH)	3240
Mass Flow (Lbs/H)	174.61
Heating Capacity Gas Cooler (BTUH)	29380
COP (Est.)	1.64

Electrical Data	
Power	208/3/60
Comp 1 (RLA)	10
Comp 2 (RLA)	9.3
Fan (RLA)	1.1
Controls	1
MCA	23.9
MOPD	30

Piping Connections (inches)	
Liquid	3/8"
Suction	1/2"

Sound	
dB(A) @ 32 Ft	35

Dimensions (in.)	Length	Width	Height
	47.2	26.9	65.6
Weight (lbs.)		467.4	



NOTE:

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CONSULTANTS

Walmart

CAMERON, NC
2800 NC HWY 24-87
STORE NO: 06958.1000

JOB NUMBER: 245001270 | PROTO: 182

ISSUE BLOCK		
1	PR#2	07/25/25
2	CCD#4	3/25/26

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REFRIGERATION SUBMITTALS

SHEET: R4

GENERAL CONTRACTOR RESPONSIBLE FOR SECURING SERVICES OF SEISMIC RESTRAINT MANUFACTURER AND SEISMIC ENGINEER OF RECORD TO DETERMINE BUILDING SYSTEMS REQUIRING SEISMIC RESTRAINT. REFER TO SPECIFICATION 13080 FOR ADDITIONAL INFORMATION.

ADD SHEET TO DRAWING SET

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CONSULTANTS

Walmart

CAMERON, NC
2800 NC HWY 24-87
STORE NO: 06958.1000

JOB NUMBER: 2450001270 PROTO: 182

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1	PR#1	07/02/25

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SEISMIC RESTRAINT

SHEET: SR1

OCCUPANCY SENSOR NOTES

12.17.21

1. OCCUPANCY SENSORS IN RESTROOMS SHALL BE PROGRAMMED FOR AUTOMATIC ON AND MAXIMUM AVAILABLE TIME DELAY SETTINGS.
2. OCCUPANCY SENSORS IN DELI, PRODUCE, AND BAKERY PREP AREAS SHALL BE PROGRAMMED WITH MAXIMUM AVAILABLE TIME DELAY SETTINGS.
3. OCCUPANCY SENSORS IN WALK-IN COOLERS/FREEZERS SHALL BE LOW TEMPERATURE RATED AND CEILING MOUNTED WITH INCLUDED BRACKET. ADJUST AIMING FOR MAXIMUM COVERAGE, 10 MINUTE TIME DELAY.
4. ALL OTHER OCCUPANCY SENSORS SHALL BE PROGRAMMED WITH THE MINIMUM AVAILABLE TIME DELAY SETTING UNLESS NOTED OTHERWISE.
5. ALL SINGLE-POLE OCCUPANCY SENSORS SHALL BE PROGRAMMED FOR MANUAL ON LIGHTING CONTROL UNLESS NOTED OTHERWISE.
6. ALL BI-LEVEL OCCUPANCY SENSORS SHALL BE PROGRAMMED FOR AUTOMATIC ON LIGHTING CONTROL FOR 50% OF FIXTURES AND WITH MANUAL ON MODE FOR REMAINING FIXTURES.
7. WHERE TWO OCCUPANCY SENSORS ARE SHOWN IN THE SAME LOCATION WIRE FOR PARALLEL OPERATION.

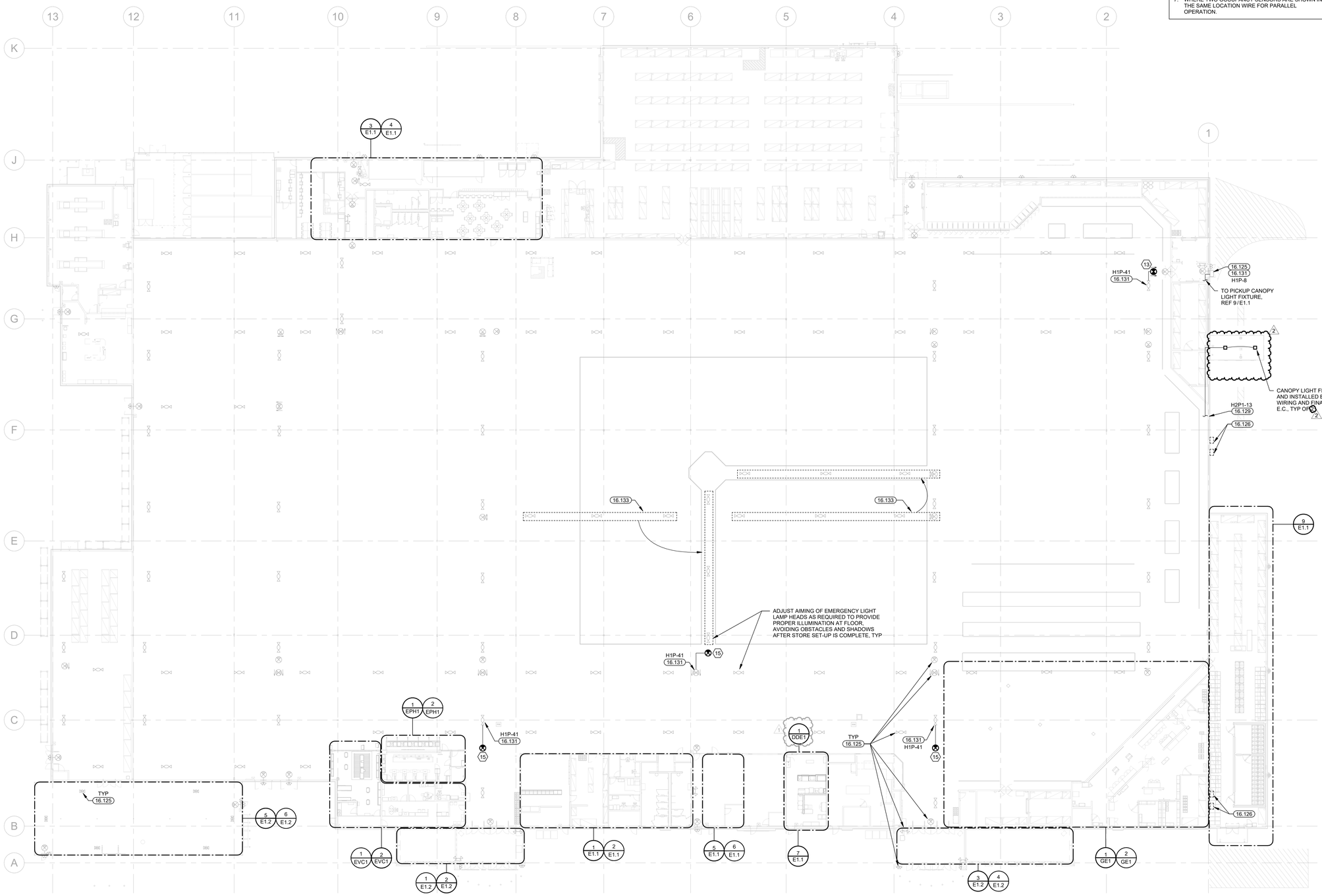
GENERAL LIGHTING NOTES

12.17.21

1. EXIT SIGN MOUNTING
   - A. WALL FIXTURE: CENTER 12" ABOVE DOOR OPENING.
   - B. CEILING FIXTURE: ON CEILING OR AT HEIGHT SPECIFIED ON DRAWINGS.
   - C. PENDANT FIXTURE: MATCH HEIGHT OF EXISTING PENDANT MOUNTED EXIT SIGNS. IF STORE DOES NOT HAVE PENDANT MOUNTED EXIT SIGNS, THEN PENDANT MOUNT SIGN 24" BELOW BOTTOM OF BAR JOIST.
   - D. VERIFY MOUNTING HEIGHT WITH AHJ.
   - E. COORDINATE LOCATIONS OF EXIT SIGNS TO ENSURE STORE SIGNAGE DOES NOT OBSTRUCT THEIR VIEW.
   - F. THE USE OF TRITIUM BASED RADIOACTIVE EXIT SIGNAGE IS PROHIBITED.
2. EMERGENCY LIGHT FIXTURE INSTALLATION
   - A. EXIT SIGNS, EMERGENCY LIGHTS AND NIGHT LIGHTS SHALL NOT BE SWITCHED.
   - B. MOUNTING
     - a. WALL FIXTURE: 12" BELOW FINISHED CEILING OR +10'-0" IN AREAS OF EXPOSED STRUCTURE, UNLESS NOTED OTHERWISE.
     - b. PENDANT FIXTURE: BOTTOM CHORD OF BAR JOIST OR AT HEIGHT SPECIFIED ON DRAWINGS.
     - c. REMOTE HEAD FIXTURE: HEADS CENTERED ABOVE DOOR OPENING +9'-0", UNLESS NOTED OTHERWISE AND BATTERY PACK MOUNTED ON INTERIOR SIDE OF WALL 12" BELOW FINISHED CEILING OR AT BAR JOIST IN AREAS OF EXPOSED STRUCTURE.
   - C. REFER TO MANUFACTURER'S WRITTEN INSTRUCTIONS. ALLOW BATTERY TO CHARGE CONTINUOUSLY FOR A MINIMUM OF 24 HOURS BEFORE INITIAL TESTING.
   - D. AFTER EMERGENCY LIGHT HAS BEEN POWERED DO NOT TURN OFF FOR EXTENDED PERIODS OF TIME.
3. IN AREAS OF OPEN STRUCTURE, MOUNT STRIP FIXTURE TO BOTTOM CHORD OF BAR JOIST, UNLESS NOTED OTHERWISE.
4. FIXTURES DENOTED WITH "ABJ" ARE TO BE FASTENED ON UNISTRUT CHANNELS MOUNTED TO THE BOTTOM SIDE OF THE TOP CHORD OF BAR JOISTS. LOCATE THE FIXTURES RUNNING PERPENDICULAR TO BAR JOISTS WITHIN BAR JOISTS WEBBING SPACES. DO NOT FASTEN FIXTURE OR UNISTRUT CHANNELS TO ROOF DECK.
5. CONTRACTOR SHALL PROVIDE ALL UNISTRUT AND HARDWARE NECESSARY TO SPAN BAR JOIST AS REQUIRED FOR A COMPLETE INSTALLATION OF THE LIGHTING SYSTEM.
6. PROVIDE SEPARATE BOXES FOR GANGED SWITCHES ON SEPARATE BRANCH CIRCUITS.
7. CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE INSTALLATION OF THE LIGHTING SYSTEM AS INDICATED ON PLANS AND/OR AS MODIFIED TO ACCOMMODATE EXISTING OBSTRUCTIONS. IDENTIFY CONFLICTS PRIOR TO ROUGH-IN. WHERE CONFLICTS WITH EXISTING UTILITIES OCCUR, ADJUST FIXTURE LOCATION AS REQUIRED. FIXTURES SHALL BE INSTALLED AS NEAR AS POSSIBLE TO LOCATIONS INDICATED ON PLANS.

KEYNOTES

16.125	EXISTING LIGHT FIXTURES TO REMAIN UNLESS NOTED OTHERWISE.
16.126	EXISTING LIGHT FIXTURE TO BE DEMOLISHED.
16.129	CONNECT TO EXISTING CIRCUIT PREVIOUSLY SERVING AREA LIGHTING THAT WAS REMOVED. MAINTAIN EXISTING CIRCUIT CONTROL UNLESS NOTED OTHERWISE. PROVIDE CONSTANT HOT FOR EMERGENCY EXIT AND LOCALLY CONTROLLED LIGHT FIXTURES.
16.131	CONNECT TO EXISTING CIRCUIT.
16.133	EXISTING LIGHT FIXTURES TO BE RELOCATED TO NEW LOCATION AS SHOWN.



1 LIGHTING PLAN
1" = 20'-0"

EXISTING LIGHTING FIXTURES NOT SHOWN ARE EXISTING TO REMAIN AND ARE NOT AFFECTED BY THE SCOPE OF WORK ON THIS PROJECT. THIS INCLUDES ALL GENERAL LIGHTING, EGRESS LIGHTING AND EXIT LIGHTING.

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 37166 ERIC KESTERSON
02/11/2026

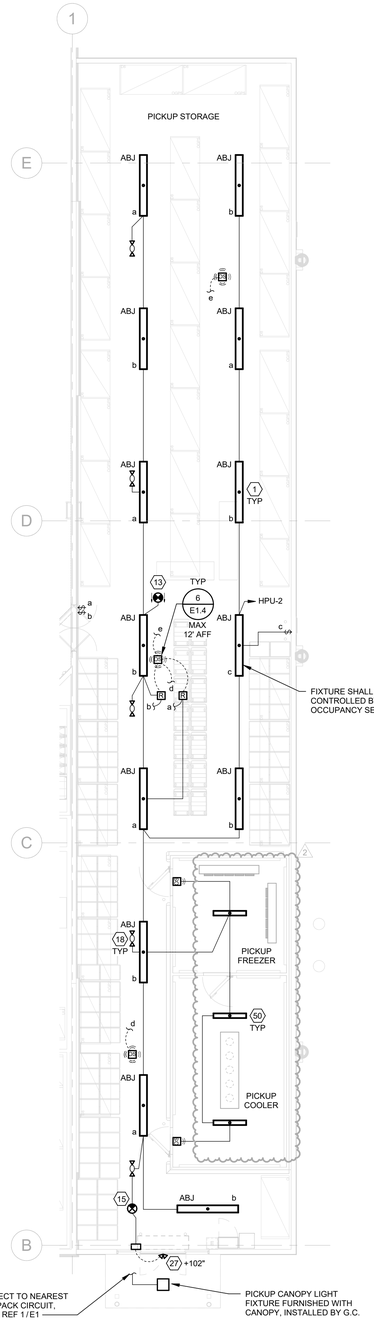
LIGHTING PLAN

SHEET: E1

ERIC S. KESTERSON

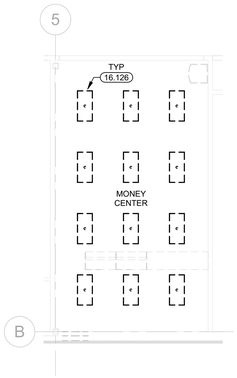
KEYNOTES

16.090	REPLACE EXISTING LIGHT FIXTURES IN THIS AREA WITH TYPE AND QUANTITY INDICATED. INSTALL NEW LIGHT FIXTURE IN SAME LOCATION AS EXISTING LIGHT FIXTURE BEING REPLACED. RECONNECT TO EXISTING CIRCUITRY AND CONTROLS.
16.125	EXISTING LIGHT FIXTURES TO REMAIN UNLESS NOTED OTHERWISE.
16.126	EXISTING LIGHT FIXTURE TO BE DEMOLISHED.
16.129	CONNECT TO EXISTING CIRCUIT PREVIOUSLY SERVING AREA LIGHTING THAT WAS REMOVED. MAINTAIN EXISTING CIRCUIT CONTROL UNLESS NOTED OTHERWISE. PROVIDE CONSTANT HOT FOR EMERGENCY EXIT AND LOCALLY CONTROLLED LIGHT FIXTURES.
16.131	CONNECT TO EXISTING CIRCUIT.
16.133	EXISTING LIGHT FIXTURES TO BE RELOCATED TO NEW LOCATION AS SHOWN.
16.492	E.C. SHALL COORDINATE WITH GENERAL CONTRACTOR AND ARCHITECTURAL DEMOLITION PLANS THE EXTENT OF ELECTRICAL DEMOLITION. REMOVE UNUSED DEVICES, BOXES, CONDUITS, AND WIRING BACK TO ORIGINATING JUNCTION BOXES OR PANELBOARDS. REFERENCE POWER PLANS FOR CIRCUITRY TO BE REUSED. DEMOLITION SHALL NOT AFFECT ACTIVE CIRCUITS. IF CIRCUIT IS DEMOLISHED ALL THE WAY TO PANELBOARD, REMOVE CIRCUIT BREAKER AND REPLACE WITH FILLER PLATE. UPDATE TYPEWRITTEN CIRCUIT DIRECTORY IDENTIFYING CIRCUIT AS "SPACE". COORDINATE EXACT REQUIREMENTS WITH EXISTING CONDITIONS PRIOR TO BID.

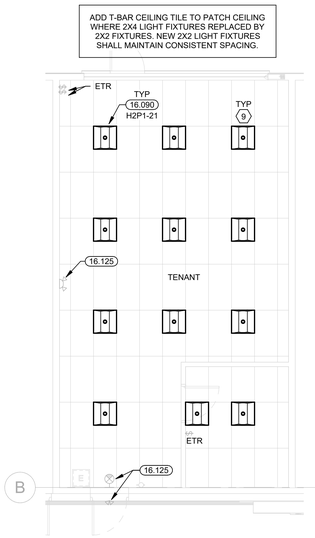


9 PICKUP LIGHTING PLAN
1/8" = 1'-0"

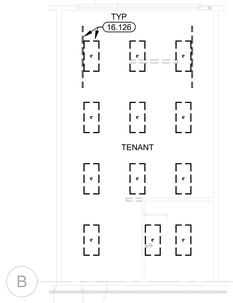
8 DETAIL NOT USED



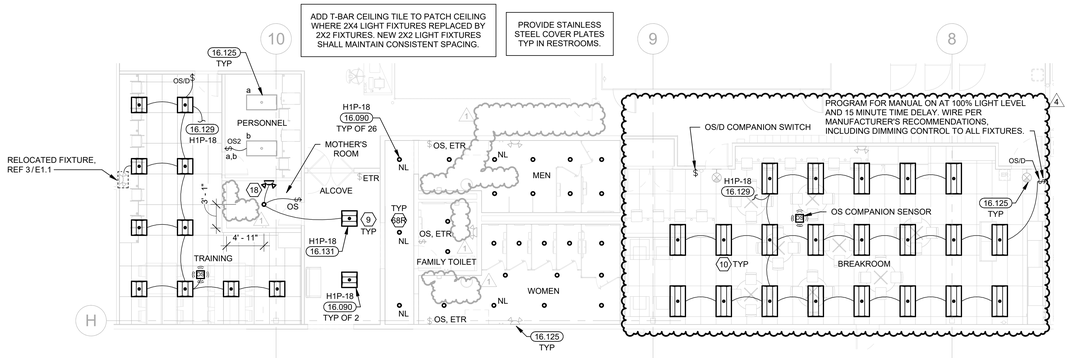
7 MONEY CENTER LIGHTING DEMO PLAN
1/8" = 1'-0"



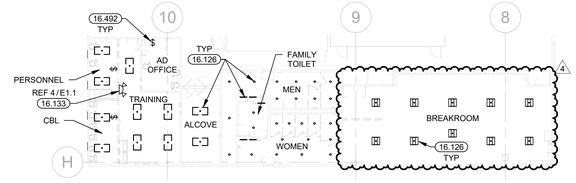
6 TENANT LIGHTING PLAN
3/16" = 1'-0"



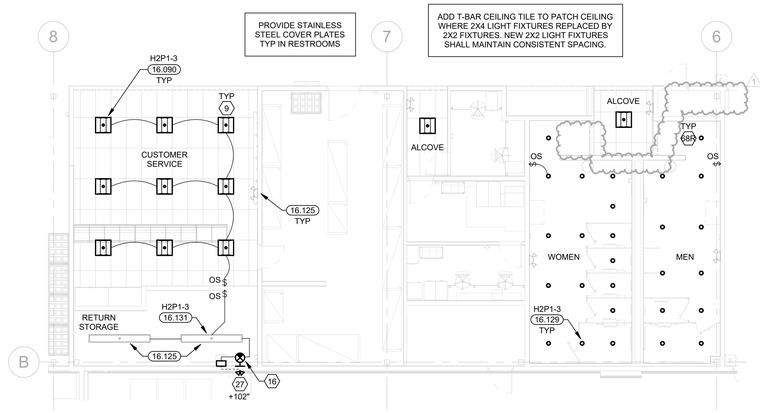
5 TENANT LIGHTING DEMO PLAN
1/8" = 1'-0"



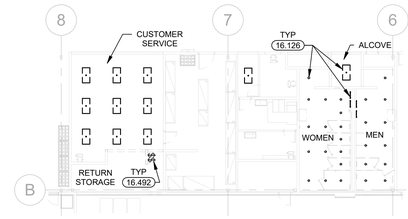
4 BACK OF HOUSE LIGHTING PLAN
1/8" = 1'-0"



3 BACK OF HOUSE LIGHTING DEMO PLAN
1/16" = 1'-0"



2 FRONT OF HOUSE LIGHTING PLAN
1/8" = 1'-0"



1 FRONT OF HOUSE LIGHTING DEMO PLAN
1/16" = 1'-0"

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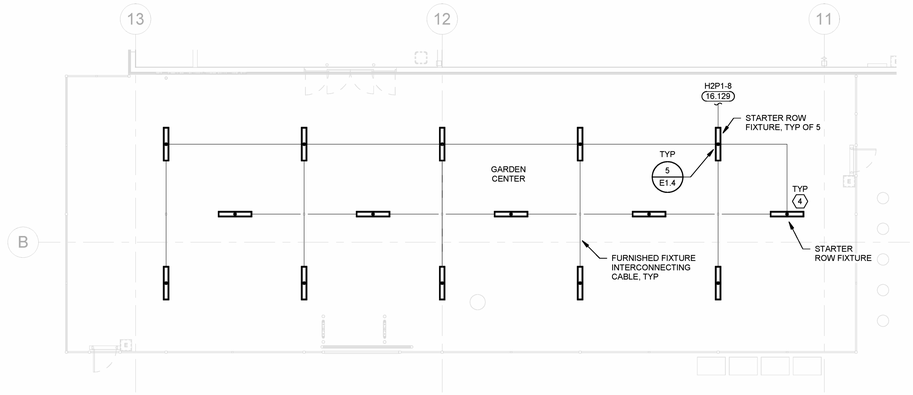
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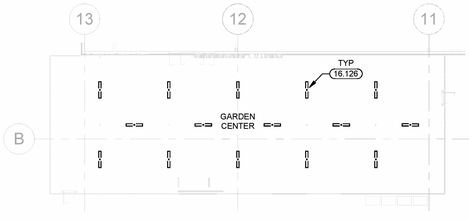
KEYNOTES

16.126	EXISTING LIGHT FIXTURE TO BE DEMOLISHED.
16.129	CONNECT TO EXISTING CIRCUIT PREVIOUSLY SERVING AREA LIGHTING THAT WAS REMOVED. MAINTAIN EXISTING CIRCUIT CONTROL UNLESS NOTED OTHERWISE. PROVIDE CONSTANT HOT FOR EMERGENCY EXIT AND LOCALLY CONTROLLED LIGHT FIXTURES.

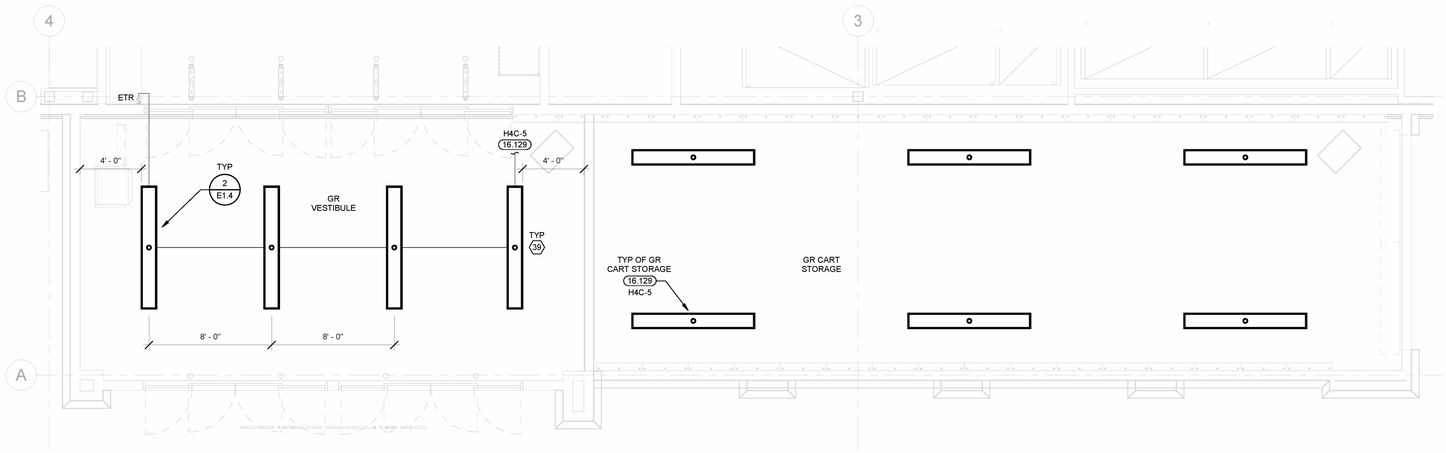


6 GARDEN CENTER LIGHTING PLAN
1/8" = 1'-0"

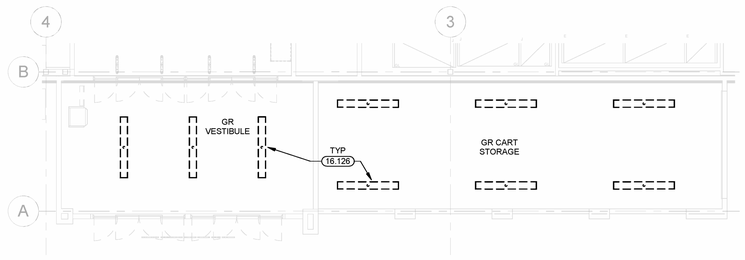
REMOVE ALL UNUSED CONDUIT AND LIGHT FIXTURE MOUNTING HARDWARE FROM DEMOLISHED LIGHT FIXTURES (I.E. UNISTRUT, JUNCTION BOXES, ETC)



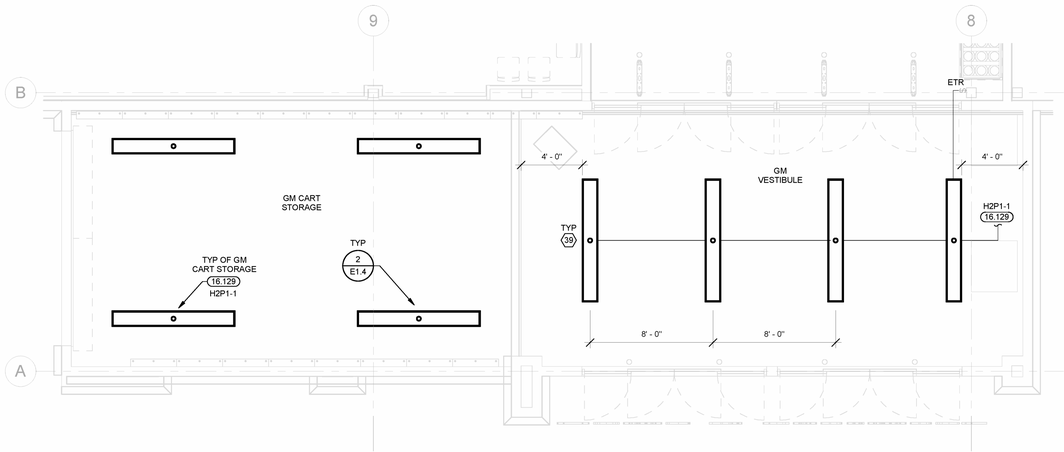
5 GARDEN CENTER LIGHTING DEMO PLAN
1/16" = 1'-0"



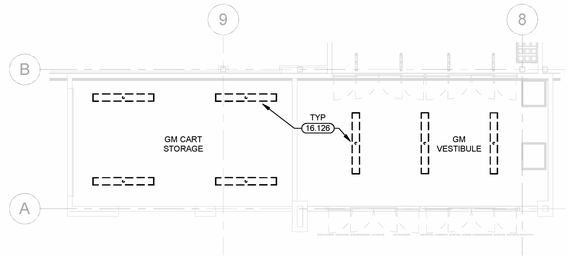
4 GR VESTIBULE LIGHTING PLAN
1/4" = 1'-0"



3 GR VESTIBULE LIGHTING DEMO PLAN
1/8" = 1'-0"



2 GM VESTIBULE LIGHTING PLAN
1/4" = 1'-0"



1 GM VESTIBULE LIGHTING DEMO PLAN
1/8" = 1'-0"

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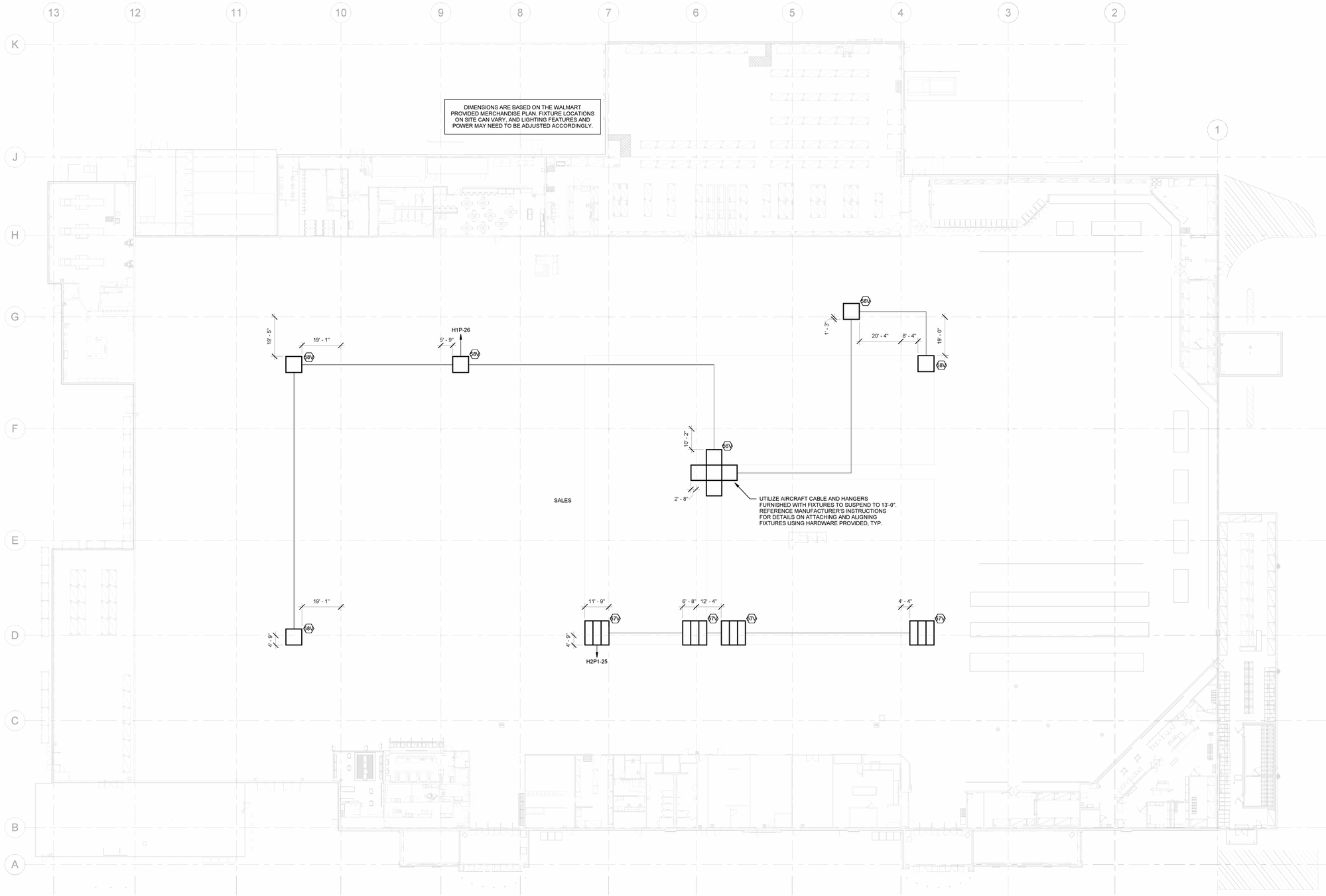
ALABAMA LICENSED No. 31485-E PROFESSIONAL ENGINEER ERIC S. KESTERSON

01/07/2025

ENLARGED LIGHTING PLANS

SHEET: E1.2

ERIC S. KESTERSON



1 FEATURE LIGHTING PLAN
1" = 20'-0"

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ALABAMA LICENSED No. 31485-E PROFESSIONAL ENGINEER ERIC S. KESTERSON

01/07/2025

FEATURE LIGHTING PLAN

SHEET
E1.3

ERIC S. KESTERSON

LIGHT FIXTURE SCHEDULE

"OW" FIXTURES AND LAMPS ARE FURNISHED BY THE OWNER FOR INSTALLATION BY THE CONTRACTOR. "GC" FIXTURES AND LAMPS ARE FURNISHED AND INSTALLED BY THE CONTRACTOR.

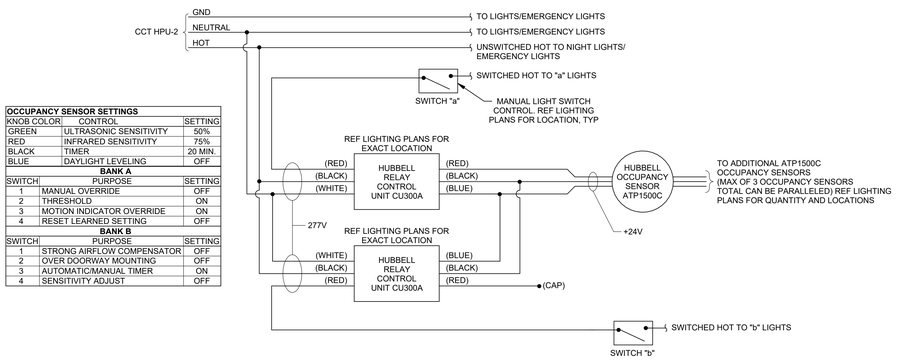
TYPE	SUPPLIED BY	DESCRIPTION	VENDOR/MFR	MODEL	VOLTAGE	INPUT VA	COLOR TEMP	LIGHT SOURCE	LAMP QTY	MOUNTING	COUNT
1	OW	8' STRIP	LOEB ELECTRIC CO	CLX L96 10000LM HEF FDL MVOLT GZ10 40K 80CRI PLR1G WH	120/277	67 VA	4000K	INTEGRAL LED	-	SURFACE	13
4	OW	4' SEALED STRIP W/CORD	LOEB ELECTRIC CO	NX1 11W 40K 00 S FX1 S	120/277	44 VA	4000K	INTEGRAL LED	-	SURFACE	15
7	OW	1' x 4' VOLUMETRIC TROFFER	LOEB ELECTRIC CO	BLT4 40L ADSM GZ10 LP840	120/277	33 VA	4000K	INTEGRAL LED	-	RECESSED	12
9	OW	2' x 2' VOLUMETRIC TROFFER	LOEB ELECTRIC CO	2BLT2 40L ADSM GZ10 LP840	120/277	32 VA	4000K	INTEGRAL LED	-	RECESSED	87
10	OW	2' x 4' VOLUMETRIC TROFFER	LOEB ELECTRIC CO	2BLT4 40L ADSM GZ10 LP840	120/277	65 VA	4000K	INTEGRAL LED	-	RECESSED	21
15	OW	EXIT SIGN (DOUBLE FACE)	ACUITY BRANDS LIGHTING INC	RED: LQM S W 3 R MVOLT EL N SD M6 GREEN: LQM S W 3 G MVOLT EL N SD M6	120/277	4 VA	4000K	INTEGRAL LED	-	STEM / CEILING	2
15	OW	EXIT SIGN (SINGLE FACE)	ACUITY BRANDS LIGHTING INC	RED: LQM S W 3 R MVOLT EL N SD M6 GREEN: LQM S W 3 G MVOLT EL N SD M6	120/277	4 VA	-	INTEGRAL LED	-	STEM / CEILING	1
16	OW	EXIT SIGN (SINGLE FACE)	ACUITY BRANDS LIGHTING INC	RED: LQM S W 3 R MVOLT EL N SD M6 GREEN: LQM S W 3 G MVOLT EL N SD M6	120/277	4 VA	-	INTEGRAL LED	-	WALL	1
18	OW	EMERGENCY LIGHT	REXEL USA INC	EVHC8IDP-WM	120/277	3 VA	-	INTEGRAL LED	-	WALL / CEILING	8
19	OW	EMERGENCY LIGHT	REXEL USA INC	EVHC8IDP-WM W/ T BAR HANGER	120/277	3 VA	-	INTEGRAL LED	-	WALL / CEILING	2
24	OW	CIRCULAR RECESSED DOWNLIGHT	LOEB ELECTRIC CO	LBR6 10LM 35K WR MWD MVOLT 90CRI UGZ	120/277	13 VA	3500K	INTEGRAL LED	-	RECESSED	8
27	OW	EMERGENCY LIGHT - REMOTE HEADS	REXEL USA INC	EVHC8IDP-0-WM W/ EVODW	120/277	3 VA	-	INTEGRAL LED	-	WALL	2
39	OW	8' STRIP (18% UPLIGHT)	GE LIGHTING SOLUTIONS LLC	LUSC8A0A0V1T40VQCSWHTE	120/277	80 VA	4000K	INTEGRAL LED	-	REF DETAILS	18
50	OW	4' SEALED STRIP	LOEB ELECTRIC CO	LXEM4-40HL-RFA-E-U-SSL	120/277	47 VA	4000K	INTEGRAL LED	-	SURFACE	3
56V	OW	SUSPENDED LIGHTING STRUCTURE	LOEB ELECTRIC CO	ACUITY: ALG3UCPUSBD012 LA-3 GEN2 SOLAIS: SOL RB1-LCM-1-NFL-940-056 LA-3 GEN2	120/277	800 VA	3000K	INTEGRAL LED	-	SUSPENDED	1
57V	OW	SUSPENDED LIGHTING STRUCTURE	LOEB ELECTRIC CO	ACUITY: ALG3UCPUSBD013 LA-4 GEN2 SOLAIS: SOL RB1-LCM-1-NFL-940-056 LA-4 GEN2	120/277	800 VA	3000K	INTEGRAL LED	-	SUSPENDED	4
58V	OW	SUSPENDED LIGHTING STRUCTURE	LOEB ELECTRIC CO	ACUITY: ALG3UCPUSBD015 LA-5 GEN2 SOLAIS: SOL RB1-LCM-1-NFL-940-056 LA-5 GEN2	120/277	400 VA	3000K	INTEGRAL LED	-	SUSPENDED	5
63	OW	8' STRIP	LOEB ELECTRIC CO	CLX L96 10500LM HEF WDL MVOLT GZ10 35K 90CRIR9 PLR1LVG GALVW NAWT	120/277	74 VA	3500K	INTEGRAL LED	-	SUSPENDED	48
68R	OW	CIRCULAR RECESSED DOWNLIGHT	LOEB ELECTRIC CO	LBR6 07LM 40K AR LSS MWD MVOLT UGZ	120/277	8 VA	4000K	INTEGRAL LED	-	RECESSED	54
85	OW	13" GLOBE PENDANT LIGHT WITH MEDIUM BASE LAMP SOCKET, CORD MOUNT, WHITE FINISH	LOEB ELECTRIC CO	HQ00006-WH-14-MED5-643WH-G1	120	14 VA	3000k	14A21DIM/830 [GRC] (LED A19 LAMP, 1600L)	-	SUSPENDED	3
87	OW	3 LIGHT RECESSED MULTIPLE, WHITE FINISH	LOEB ELECTRIC CO	3LH-N1N2N3-15LM-30K-MVOLT-SPW-ZT-WH-HBTL-MEZ136454	120/277	48 VA	3000K	MODULAR LED	-	RECESSED	24
90	OW	UNDER CABINET LIGHTING - 34"	IDX CORPORATION	RT5HO-LED34-30FR-2-000	120	15 VA	3000K	INTEGRAL LED	-	SURFACE	1
92	OW	8FT SUSPENDED LED LINEAR SLOT LIGHT	LOEB ELECTRIC CO	S1LD-LLP-8FT-MSLX-90CRI-30K-700LMF-MIN1-MVOLT-WHT-ZT-F1/72A-RDCY -WCRD	120/277	50 VA	3000K	INTEGRAL LED	-	SUSPENDED	6

SITE LIGHTING SCHEDULE

"OW" FIXTURES AND LAMPS ARE FURNISHED BY THE OWNER FOR INSTALLATION BY THE CONTRACTOR. "GC" FIXTURES AND LAMPS ARE FURNISHED AND INSTALLED BY THE CONTRACTOR.

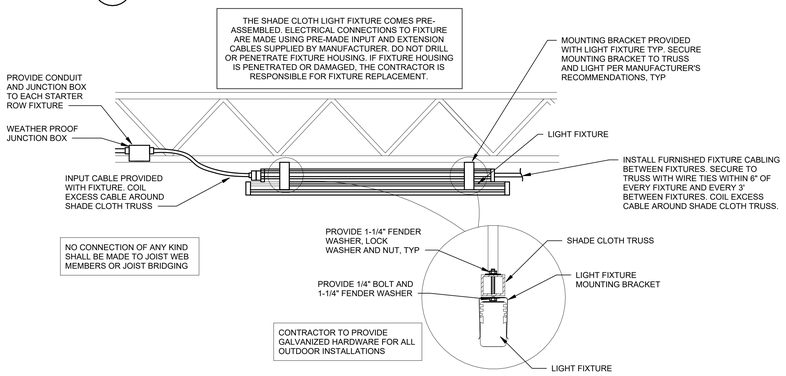
TYPE	SUPPLIED BY	DESCRIPTION	VENDOR/MFG	MODEL	VOLTAGE	INPUT VA	LIGHT SOURCE	MOUNTING	COUNT
S1	OW	POLE MOUNTED EXTERIOR	CURRENT LIGHTING	2-EALS035K5SM750NDD1BLCKF	480	531	LED	POLE - 2 @ 180 DEGREES	2
S2	OW	POLE MOUNTED EXTERIOR	CURRENT LIGHTING	1-EALS035K5SM750NDD1BLCKF	480	266	LED	POLE - 1 @ 90 DEGREES	1

SITE LIGHTING CONTACT
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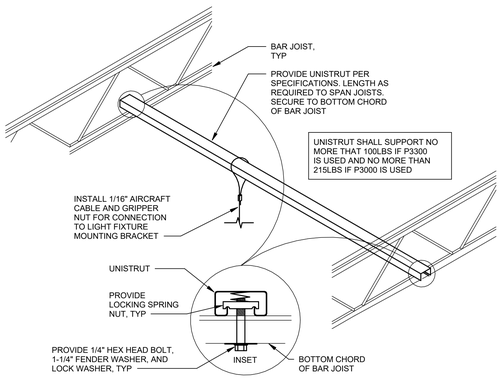


OCCUPANCY SENSOR SETTINGS		
KNOB COLOR	CONTROL	SETTING
GREEN	ULTRASONIC SENSITIVITY	50%
RED	INFRARED SENSITIVITY	75%
BLACK	TIMER	20 MIN.
BLUE	DAYLIGHT LEVELING	OFF
BANK A		
SWITCH	PURPOSE	SETTING
1	MANUAL OVERRIDE	OFF
2	THRESHOLD	ON
3	MOTION INDICATOR OVERRIDE	ON
4	RESET LEARNED SETTING	OFF
BANK B		
SWITCH	PURPOSE	SETTING
1	STRONG AIRFLOW COMPENSATOR	OFF
2	OVER DOORWAY MOUNTING	OFF
3	AUTOMATIC/MANUAL TIMER	ON
4	SENSITIVITY ADJUST	OFF

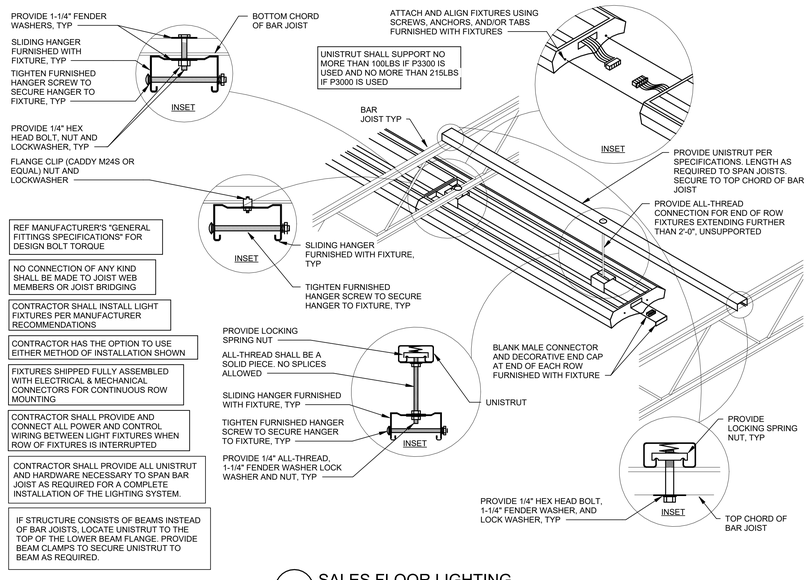
6 OCCUPANCY SENSOR/RELAY WIRING DIAGRAM AND SETTINGS (PICKUP ONLY)
NTS



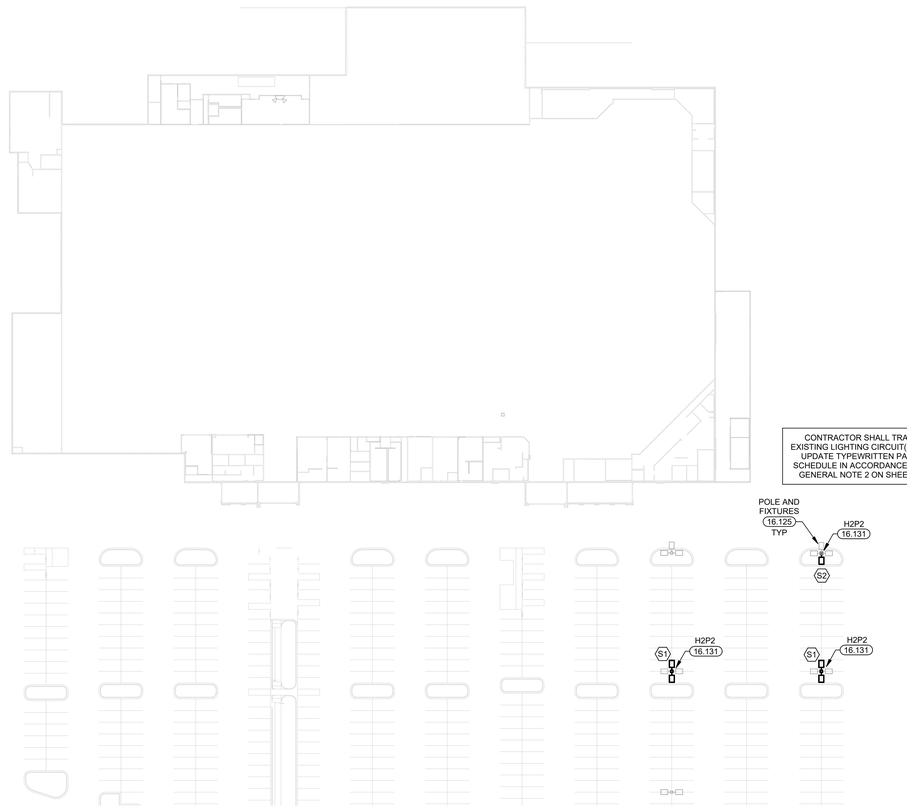
5 SHADE CLOTH LIGHTING
NTS



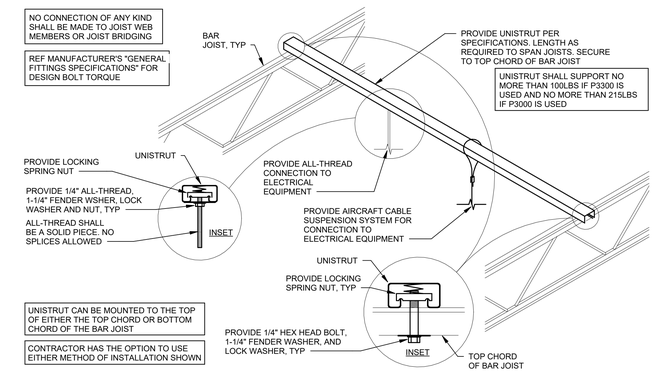
3 SUSPENDED LIGHTING CONNECTIONS TO STRUCTURE
NTS



2 SALES FLOOR LIGHTING
NTS



4 SITE LIGHTING PLAN
1" = 50'-0"



1 GENERAL ELECTRICAL CONNECTIONS TO STRUCTURE
NTS

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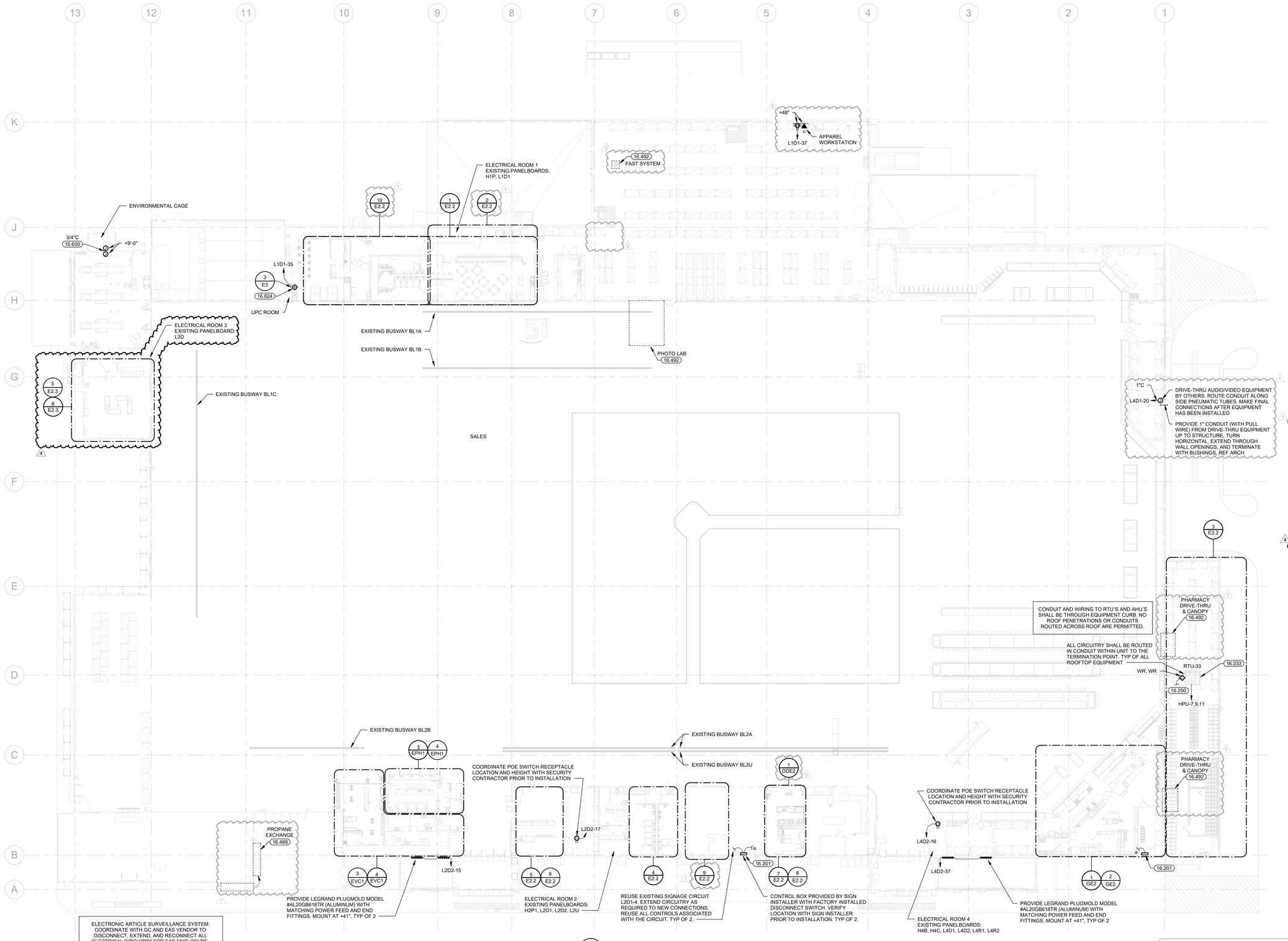
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NORTH CAROLINA PROFESSIONAL SEAL 37166 ENGINEER ERIC KESTERSON
02/11/2026

LIGHTING DETAILS AND SCHEDULES

SHEET: E1.4

ERIC S. KESTERSON



1 POWER PLAN
1" = 20'-0"

GENERAL POWER NOTES

01.26.24

1. TELEPOWER POLE(S): MOUNT JUNCTION BOX(ES) TO TOP SIDE OF BOTTOM CHORD OF BAR JOIST. INSTALL FURNISHED POWER POLE AND TERMINATE WIRING TO JUNCTION BOX. PROVIDE UNISTRUT SUPPORTS AND HARDWARE TO SECURE TELEPOWER POLE PLUMB TO BUILDING STRUCTURE. REF POWER POLE CONNECTION DETAIL.
2. PROVIDE LIQUID-TIGHT FLEXIBLE METAL CONDUIT AND WIRING FROM DISCONNECT SWITCH OR JUNCTION BOX TO EQUIPMENT KNOCKOUT OR ELECTRICAL CONNECTION POINT.
3. WHERE EQUIPMENT NAMEPLATE PROTECTIVE DEVICE RATING DIFFERS FROM SIZE PROVIDED, NOTIFY WALMART CONSTRUCTION MANAGER IMMEDIATELY TO COORDINATE RESOLUTION.
4. ELECTRONIC FIRE PROTECTION/SECURITY ALARM BOXES AND CONDUITS SHOWN ON POWER PLANS SHALL BE PROVIDED UNDER THIS CONTRACT. IN ADDITION, UNLESS NOTED OTHERWISE, THE FOLLOWING GENERAL NOTES APPLY:
   A. ALL ALARM JUNCTION BOXES SHALL BE 4"X4"X2-1/8" MINIMUM.
   B. ALARM RACEWAYS SHALL BE 3/4" MINIMUM WITH PULL WIRE AND INSULATING BUSHINGS AT END OF VERTICAL RACEWAY RUN.
   C. VERTICAL RACEWAYS FROM ALARM BOXES SHALL BE EITHER CONCEALED INSIDE WALL OR SURFACE MOUNTED (TO MATCH JUNCTION BOX MOUNTING). ALL VERTICAL RUNS SHALL BE TURNED 90-DEGREES AT TOP SIDE OF BOTTOM CHORD OF BAR JOIST AND EXTENDED HORIZONTALLY TO A LOCATION ACCESSIBLE BY VERTICAL FLOOR TYPE LIFT.
5. UPON COMPLETION OF ELECTRICAL INSTALLATION AND PRIOR TO ENERGIZING CIRCUIT:
   A. INSPECT WIRE AND CABLE FOR PHYSICAL DAMAGE.
   B. PERFORM CONTINUITY TEST.
   C. VERIFY PROPER PHASING CONNECTION TO ALL THREE PHASE MOTOR LOADS.
6. CONDUIT AND WIRING TO RTU'S AND AHU'S SHALL BE THROUGH EQUIPMENT CURB. NO ROOF PENETRATIONS OR CONDUITS ROUTED ACROSS ROOF ARE PERMITTED.
7. REFERENCE PROTECTIVE DEVICE SETTINGS REPORT FOR PROTECTIVE DEVICE MANUFACTURER, TYPE, AND SETTING REQUIREMENTS.

KEYNOTES

16.201 EXTERIOR SIGN POWER: WHERE ELECTRICAL CONNECTIONS FOR SIGNAGE OCCUR BELOW ROOF LINE, ROUTE POWER TO WALL AT SIGN CONTROL BOX(ES). WHERE ELECTRICAL CONNECTIONS FOR SIGNAGE OCCUR ABOVE ROOF LINE, PROVIDE UNISTRUT TO MOUNT CONTROL BOX(ES) TO BACK SIDE OF PARAPET. LOW VOLTAGE WIRING FROM CONTROL BOX(ES) TO SIGN PROVIDED AND INSTALLED BY OTHERS. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT SIGN LOCATION(S) PRIOR TO INSTALLATION. PROVIDE ONLY ONE PENETRATION THROUGH THE ROOF. REF ARCHITECTURAL EXTERIOR WALL SECTIONS AND SIGN ATTACHMENT FOR ROOF AND PARAPET PENETRATION REQUIREMENTS.

16.233 ROOF TOP UNIT IS PROVIDED WITH A HACR RATED CIRCUIT BREAKER AND GFI DUPLEX RECEPTACLE. ALL CIRCUITRY SHALL BE ROUTED IN CONDUIT WITHIN UNIT TO THE TERMINATION POINT.

16.250 CONNECT CIRCUITRY TO FACTORY PROVIDED MAINTENANCE RECEPTACLE. ROUTE CIRCUIT TO NEAREST RTU OR AHU MAINTENANCE RECEPTACLE CIRCUIT.

16.489 RELOCATE, EXTEND, AND RECONNECT CIRCUITRY AND ELECTRICAL DEVICES FOR RELOCATED AND/OR NEW EQUIPMENT. VERIFY CONDITION OF BRANCH CIRCUITRY, CONDUIT AND WIRE TO ENSURE THEY MEET ALL U.L. RATINGS AND REPLACE AS REQUIRED. VERIFY FINAL LOCATION OF RELOCATED/NEW EQUIPMENT WITH WALMART CONSTRUCTION MANAGER PRIOR TO ROUGH-IN.

16.492 E.C. SHALL COORDINATE WITH GENERAL CONTRACTOR AND ARCHITECTURAL DEMOLITION PLANS THE EXTENT OF ELECTRICAL DEMOLITION. REMOVE UNUSED DEVICES, BOXES, CONDUITS, AND WIRING BACK TO ORIGINATING JUNCTION BOXES OR PANELBOARDS. REFERENCE POWER PLANS FOR CIRCUITRY TO BE REUSED. DEMOLITION SHALL NOT AFFECT ACTIVE CIRCUITS. IF CIRCUIT IS DEMOLISHED ALL THE WAY TO PANELBOARD, REMOVE CIRCUIT BREAKER AND REPLACE WITH FILLER PLATE. UPDATE TYPEWRITTEN CIRCUIT DIRECTORY IDENTIFYING CIRCUIT AS "SPACE". COORDINATE EXACT REQUIREMENTS WITH EXISTING CONDITIONS PRIOR TO BID.

16.624 FURNISH AND INSTALL RACK MOUNTED PDU TRIPP LITE MODEL# PDU1220T OR EQUAL. COORDINATE CEILING RECEPTACLE AND PDU LOCATION WITH WALMART SECURITY MANAGER DURING PRE-CONSTRUCTION. ALL WORK SHALL BE COMPLETED AND AVAILABLE FOR SOUND SYSTEM INSTALLATION NO LATER THAN 21 DAYS FROM CONSTRUCTION START DATE. SOUND SYSTEM EQUIPMENT BY OTHERS.

16.650 CONDUIT SLEEVE: PROVIDE 1-1/2" CONDUIT SLEEVE WITH BUSHINGS ABOVE BAR JOIST (UNLESS NOTED OTHERWISE).

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 37166 ERIC S. KESTERSON
03/24/2026

POWER PLAN

SHEET: E2

ERIC S. KESTERSON

POWER DROP SCHEDULE

07.28.17

NO.	DESCRIPTION
PD1	MOUNT RECEPTACLE(S) ON TOP OF DISPLAY UNIT(S)
PD2	MOUNT RECEPTACLE(S) 6" ABOVE BASE OF DISPLAY ON UNIT(S) SO THAT RECEPTACLE(S) AND CONDUIT DO NOT INTERFERE WITH SHELF HEIGHT ADJUSTMENTS
PD3	PROVIDE DIRECT CONNECTION TO EQUIPMENT
PD4	OPEN STRUCTURE: MOUNT RECEPTACLE AT BAR JOIST AND INSTALL FURNISHED CORD REEL. LAY-IN CEILING: PROVIDE RECESSED CEILING RECEPTACLE AND INSTALL FURNISHED CORD REEL BELOW CEILING. CORD REEL SHALL BE MOUNTED TO CEILING FAN RATED JUNCTION BOX SECURED TO LAY-IN CEILING WITH T-BAR BOX HANGER. PROVIDE 1/2" THREADED STEEL ROD FROM JUNCTION BOX TO BOTTOM OF STRUCTURAL JOIST OR CHANNEL STRUT BRIDGING ABOVE FOR SUPPORT.

POWER DROP NOTES

09.25.20

1. POWER DROPS WILL BE IDENTIFIED BY AN IPTV TAG OR POWER TAG, I.E. 44A, 46E, ETC. ALL CHECKOUT POWER SHALL BE CONSIDERED POWER DROPS.
2. A REVISION OF THIS PLAN BASED ON THE FINAL MERCHANDISE LAYOUT MAY BE ISSUED TO SHOW FINAL LOCATIONS FOR THE POWER DROPS. IF THE MERCHANDISE PLAN DOES NOT CHANGE, THIS PLAN WILL NOT BE REISSUED. PROVIDE CIRCUITRY TO DISPLAY RACKS AS THE RACKS ARE SET. IN ADDITION, THE FOLLOWING POWER DROP NOTES APPLY:
   - A. THERE WILL BE NO ADDITIONAL CHARGE FOR DROP RELOCATION WITHIN POWER DROP ZONES DEFINED ON DRAWING.
   - B. AT CLOSE OF PROJECT THE GENERAL CONTRACTOR AND CONSTRUCTION MANAGER SHALL REVIEW ADDITIONAL OR DELETED POWER DROPS WITHIN EACH ZONE TO VERIFY ANY ADDITIONAL CHARGES OR CREDITS THAT APPLY DUE TO CHANGES.
   - C. ADDING OR SUBTRACTING A POWER DROP TO ANY ZONE WILL RESULT IN A CHARGE OR CREDIT ACCORDING TO SPECIAL CONDITIONS.
3. PROVIDE JUNCTION BOX AND CIRCUITRY TO NEAREST JOIST ABOVE LOCATION SHOWN ON DRAWING. EXTEND CONDUIT AND CIRCUITRY FROM JUNCTION BOX TO ENDCAP OF DISPLAY RACK.
4. WHEN EXPOSED VERTICAL CONDUIT FROM STRUCTURAL CONNECTION TO GONDOLA/EQUIPMENT EXCEEDS 10 FEET,PROVIDE SUPPORT AS NECESSARY TO MEET NEC REQUIREMENTS.
5. PROVIDE CONDUIT, RECEPTACLE(S) AND FINAL CONNECTIONS AT DISPLAY RACK SHELVING PER POWER DROP SCHEDULE UNLESS NOTED OTHERWISE ON DRAWING. VERIFY EXACT HEIGHT AND LOCATION OF RECEPTACLE(S) WITH STORE PLANNING SET-UP SUPERVISOR PRIOR TO INSTALLATION.
6. POWER DROPS FED FROM TRACK BUSWAY: INSTALL PLUG-IN UNIT AT A POINT ON TRACK BUSWAY NEAREST POWER DROP(S).

KEYNOTES

16.131 CONNECT TO EXISTING CIRCUIT.
16.145 CONNECT CIRCUIT(S) TO EXISTING BRANCH CIRCUITRY. MINIMUM WIRE SIZE AND PANELBOARD CIRCUIT ARE NOTED. VERIFY SIZE, RATING AND CONDITION OF EXISTING BRANCH CIRCUIT CONDUIT AND WIRE PRIOR TO USE TO ENSURE THAT THEY MEET REQUIRED SIZE, AND ALL U.L. RATINGS AND REPLACE AS REQUIRED.

EXISTING TELEPOWER POLES: ALL EXISTING TELEPOWER POLES IN OPEN STRUCTURE AREAS THROUGHOUT THE STORE SHALL BE SECURED SIMILAR TO DETAIL 1-E3 WITH OPTION OF UTILIZING 2-1 1/2 INCH RIGID PVC SPLIT DUCT TYPE SLEEVE FROM PRIME CONDUIT MWE INC, VIKIMATIC, OR INNERDUCT. COORDINATE WORK WITH WALMART STORE MANAGER AND CONSTRUCTION MANAGER TO MINIMIZE DISRUPTIONS TO STORE OPERATION AND ANY EQUIPMENT SERVED BY EACH POWER POLE.

ON SALES FLOOR COLUMNS, REMOVE UNUSED PHONE OUTLETS ALONG WITH ASSOCIATED JUNCTION BOXES AND CONDUITS. REMOVE ALL EMPTY CONDUITS AND ABANDONED JUNCTION BOXES. TELEPHONE CABLES ARE TO BE REMOVED BACK TO STRUCTURE AND SECURED.

1 POWER DROP PLAN
1" = 20'-0"

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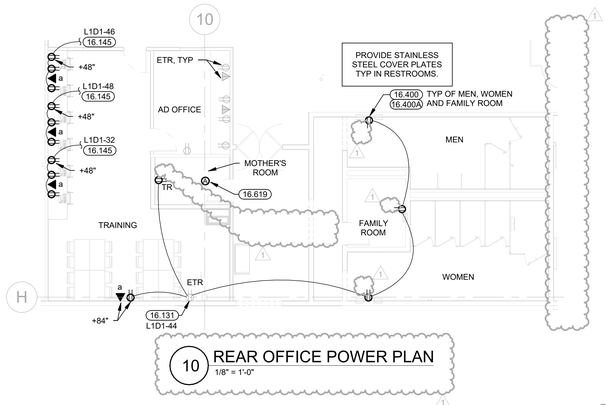
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12/04/2025

POWER DROP PLAN

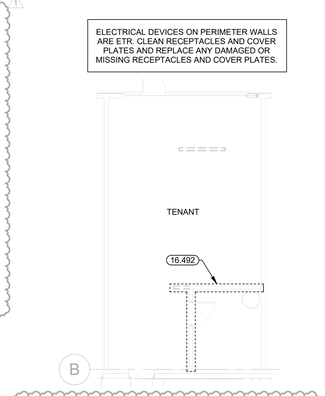
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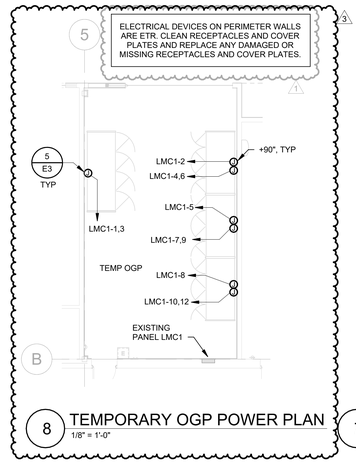




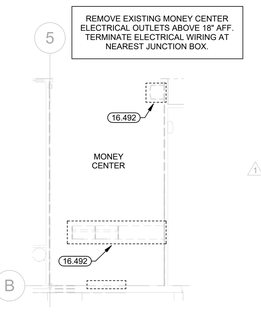
10 REAR OFFICE POWER PLAN
1/8" = 1'-0"



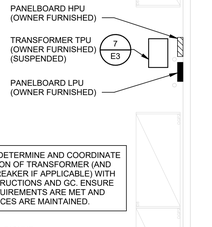
9 TENANT POWER DEMO PLAN
1/8" = 1'-0"

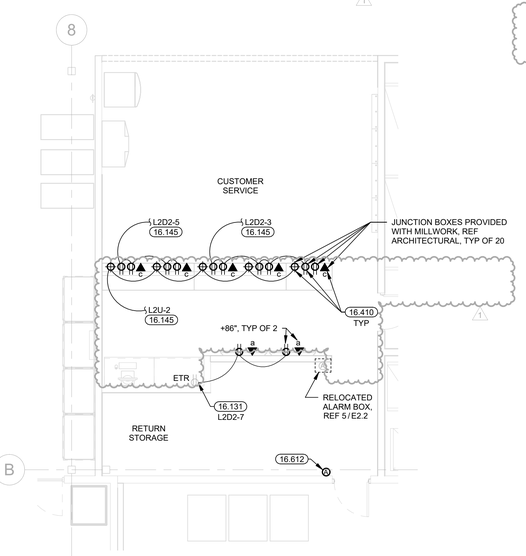


8 TEMPORARY OGP POWER PLAN
1/8" = 1'-0"

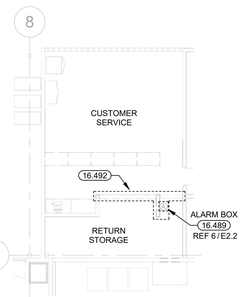


7 MONEY CENTER POWER DEMO PLAN
3/32" = 1'-0"

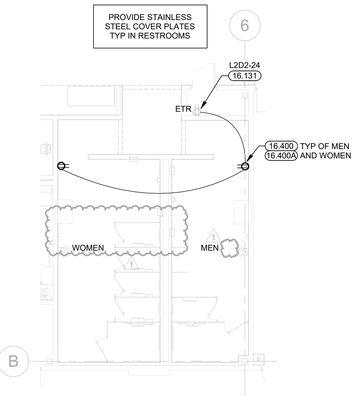




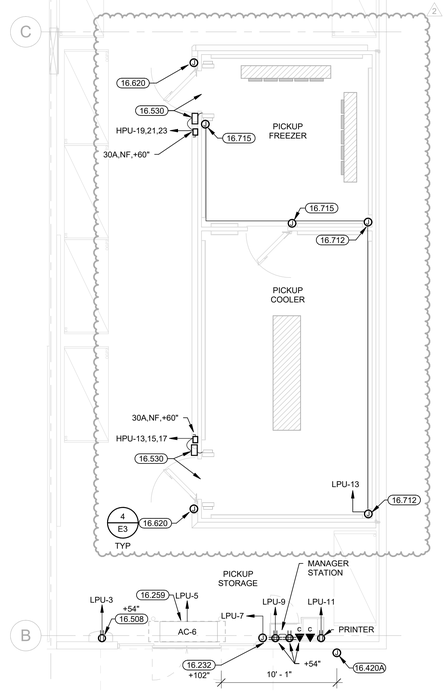
6 CUSTOMER SERVICE POWER PLAN
3/16" = 1'-0"



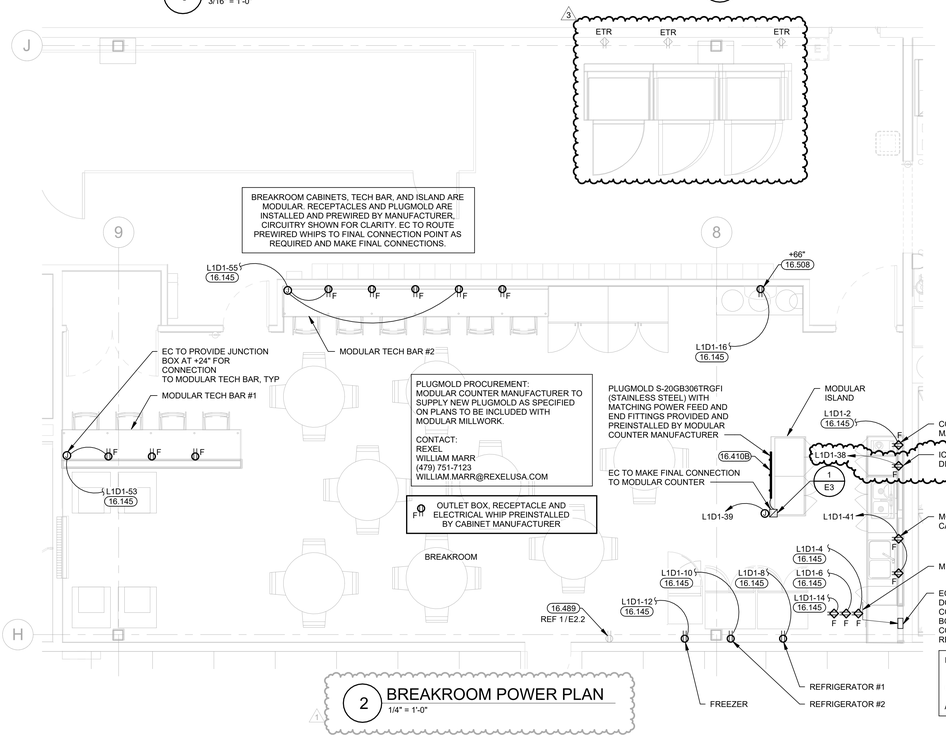
5 CUSTOMER SERVICE POWER DEMO PLAN
3/32" = 1'-0"



4 FRONT RESTROOM POWER PLAN
1/8" = 1'-0"

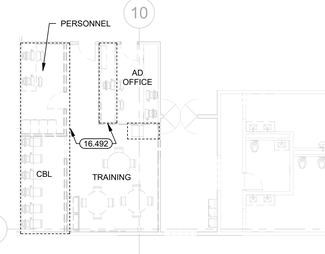


3 PICKUP POWER PLAN
3/16" = 1'-0"



2 BREAKROOM POWER PLAN
1/4" = 1'-0"

DEVICES IN MODULAR CABINETS ARE PREWIRED. EC TO ROUTE ELECTRICAL WHIPS THROUGH CHASE AT TOP OF CABINETS TO PREINSTALLED JUNCTION BOX AND MAKE FINAL CONNECTIONS.



1 REAR OFFICE POWER DEMO PLAN
3/32" = 1'-0"

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELF WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

KEYNOTES

16.131 CONNECT TO EXISTING CIRCUIT.

16.145 CONNECT CIRCUIT(S) TO EXISTING BRANCH CIRCUITRY. MINIMUM WIRE SIZE AND PANELBOARD CIRCUIT ARE NOTED. VERIFY SIZE, RATING AND CONDITION OF EXISTING BRANCH CIRCUIT CONDUIT AND WIRE PRIOR TO USE TO ENSURE THAT THEY MEET REQUIRED SIZE, AND ALL U.L. RATINGS AND REPLACE AS REQUIRED.

16.232 AUTOMATIC DOOR OPERATOR: VERIFY LOCATION WITH MANUFACTURER'S RECOMMENDATIONS PRIOR TO INSTALLATION. ALL DOOR CONTROLS INCLUDING LOW VOLTAGE ROUGH-IN CONDUIT, BACKBOXES AND WIRING BY OTHERS.

16.259 CONNECT CIRCUITRY TO FACTORY PROVIDED DISCONNECT SWITCH. E.C. SHALL INSTALL PROVIDED DOOR SWITCH PER MANUFACTURER'S RECOMMENDATIONS.

16.400 SCENT SYSTEM: ONCE INSTALLATION OF ALL SCENT SYSTEM RECEPTACLES HAS BEEN FINALIZED, CONTACT OWNERS SCENT SYSTEM VENDOR FOR INSTALLATION OF SCENT SYSTEMS PER SPEC SECTION APPENDIX A.

16.400A SCENT SYSTEM RECEPTACLES: MOUNT AT 13" BELOW CEILING AND ENSURE NO OBSTRUCTIONS WITHIN 4" LEFT AND RIGHT OF RECEPTACLE.

16.410 COUNTER MOUNTED DEVICES: STUB OUT OF WALL AT +8". ROUTE FLEXIBLE METAL CONDUITS ALONG BACK WALL OF CABINET. MOUNT DEVICES WITHIN CABINET AT +8", UNLESS NOTED OTHERWISE. EACH DATA BOX IS TO HAVE A SEPARATE CONDUIT ROUTED TO 12" ABOVE ACCESIBLE CEILING SPACE. VERIFY LOCATIONS PRIOR TO INSTALLATION.

16.410B COUNTER MOUNTED DEVICES: ROUTE BRANCH CIRCUITRY THROUGH OWNER FURNISHED BLANK POWER POLE. ROUTE FLEXIBLE METAL CONDUITS ALONG INSIDE BACK WALL OF CABINET.

16.420A PROVIDE WP JUNCTION BOX WITH COVERPLATE AT 8'-6" AFG FOR MOUNTING OF EXTERIOR CAMERA. PROVIDE 3/4" CONDUIT THROUGH EXTERIOR WALL TO ABOVE BAR JOIST AND TERMINATE WITH BUSHING.

16.489 RELOCATE, EXTEND, AND RECONNECT CIRCUITRY AND ELECTRICAL DEVICES FOR RELOCATED AND/OR NEW EQUIPMENT. VERIFY CONDITION OF BRANCH CIRCUITRY, CONDUIT AND WIRE TO ENSURE THEY MEET ALL U.L. RATINGS AND REPLACE AS REQUIRED. VERIFY FINAL LOCATION OF RELOCATED/NEW EQUIPMENT WITH WALMART CONSTRUCTION MANAGER PRIOR TO ROUGH-IN.

16.492 E.C. SHALL COORDINATE WITH GENERAL CONTRACTOR AND ARCHITECTURAL DEMOLITION PLANS THE EXTENT OF ELECTRICAL DEMOLITION. REMOVE UNUSED DEVICES, BOXES, CONDUITS, AND WIRING BACK TO ORIGINATING JUNCTION BOXES OR PANELBOARDS. REFERENCE POWER PLANS FOR CIRCUITRY TO BE REUSED. DEMOLITION SHALL NOT AFFECT ACTIVE CIRCUITS. IF CIRCUIT IS DEMOLISHED ALL THE WAY TO PANELBOARD, REMOVE CIRCUIT BREAKER AND REPLACE WITH FILLER PLATE. UPDATE TYPEWRITTEN CIRCUIT DIRECTORY IDENTIFYING CIRCUIT AS "SPACE". COORDINATE EXACT REQUIREMENTS WITH EXISTING CONDITIONS PRIOR TO BID.

16.508 INSECT CONTROL: PROVIDE BROWN DEVICE AND MATCHING COVERPLATE.

16.530 AIR DOOR AND CONTROL PANEL: PROVIDE POWER FROM DISCONNECT TO AIR DOOR CONTROL PANEL. PROVIDE AND INSTALL ALL INTERCONNECT WIRING BETWEEN THE CONTROL PANEL, AIR CURTAIN AND DOOR INTERLOCK SWITCH PER MANUFACTURER'S INSTRUCTIONS.

16.612 PROVIDE RECESSED ALARM JUNCTION BOX (WITH VERTICAL RACEWAY) MOUNTED 2" ABOVE AND 8" IN FROM STRIKE SIDE OF DOOR FRAME.

16.619 PROVIDE RECESSED ALARM JUNCTION BOX IN CEILING WITH 4"x4"x1-1/2" EXTENSION RING WITH RACEWAY ROUTED TO NEAREST ACCESSIBLE CEILING SPACE.

16.620 AP REPEATER: PROVIDE 3/4" CONDUIT FROM JUNCTION BOX TO STRUCTURE. PROVIDE 1" CONDUIT FROM BACK OF BOX EXTENDED 2" INTO COOLER. POSITION JUNCTION BOX SO THAT SLEEVE IS 12" ABOVE DOOR ON NON ACTIVE SIDE OF DOOR OR 12" ABOVE ROLL SEAL ON OPPOSITE SIDE OF CONTROLS. TERMINATE EACH CONDUIT END WITH THREADED BUSHINGS. SEAL CONDUIT SLEEVE AND SLEEVE PENETRATION WITH SILICONE SEALANT AFTER CABLING IS INSTALLED.

16.712 SURFACE MOUNT WP JUNCTION BOX ON WALL 24" BELOW COOLER/FREEZER BOX CEILING FOR CONDENSATE DRAIN HEAT TRACE TAPE. PROVIDE LIQUID-TIGHT FLEXIBLE METAL CONDUIT CONNECTION TO HEAT TAPE.

16.715 JUNCTION BOX PROVIDED WITH COOLER/FREEZER PANEL FOR CONNECTION TO LIGHTS, DOOR HEATERS, AND/OR HEATED VENTS. PROVIDE WEATHERPROOF EXTENSION AND COVERPLATE FOR RECESSED JUNCTION BOXES AS REQUIRED. FINAL TERMINATIONS BY REFRIGERATION CONTRACTOR.

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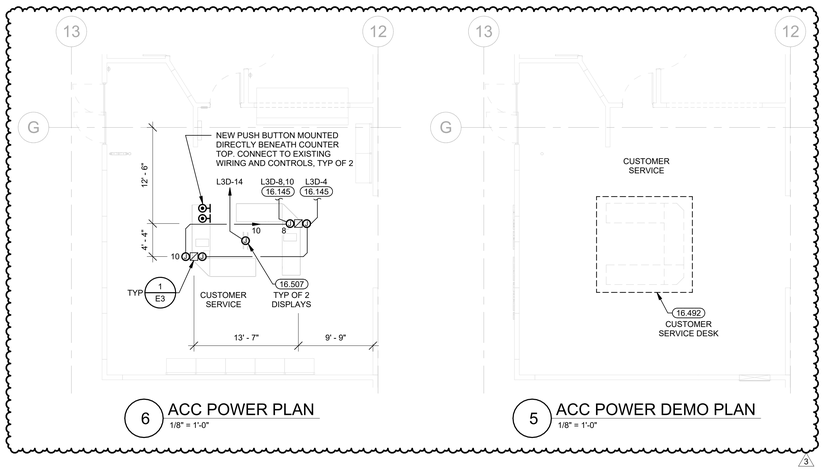
ENLARGED POWER PLANS

SHEET: E2.2

ERIC S. KESTERSON

KEYNOTES

16.032	CONNECT CIRCUIT TO POWER POLE WHIP WIRED TO ORANGE TWIST-LOCK RECEPTACLES.
16.032A	CONNECT TO TWIST-LOCK.
16.145	CONNECT CIRCUIT(S) TO EXISTING BRANCH CIRCUITRY. MINIMUM WIRE SIZE AND PANELBOARD CIRCUIT ARE NOTED. VERIFY SIZE, RATING AND CONDITION OF EXISTING BRANCH CIRCUIT CONDUIT AND WIRE PRIOR TO USE TO ENSURE THAT THEY MEET REQUIRED SIZE, AND ALL U.L. RATINGS AND REPLACE AS REQUIRED.
16.452	SOUND SYSTEM CONDUIT: STUB CONDUIT (WITH PULL WIRE) FROM BELOW SHELVING UNIT TO BAR JOIST. PROVIDE BUSHING AT EACH END.
16.492	E.C. SHALL COORDINATE WITH GENERAL CONTRACTOR AND ARCHITECTURAL DEMOLITION PLANS THE EXTENT OF ELECTRICAL DEMOLITION. REMOVE UNUSED DEVICES, BOXES, CONDUITS, AND WIRING BACK TO ORIGINATING JUNCTION BOXES OR PANELBOARDS. REFERENCE POWER PLANS FOR CIRCUITRY TO BE REUSED. DEMOLITION SHALL NOT AFFECT ACTIVE CIRCUITS. IF CIRCUIT IS DEMOLISHED ALL THE WAY TO PANELBOARD, REMOVE CIRCUIT BREAKER AND REPLACE WITH FILLER PLATE. UPDATE TYPEWRITTEN CIRCUIT DIRECTORY IDENTIFYING CIRCUIT AS "SPACE". COORDINATE EXACT REQUIREMENTS WITH EXISTING CONDITIONS PRIOR TO BID.
16.507	DIGITAL DISPLAYS: MOUNT JUNCTION BOX AT STRUCTURE. AFTER INSTALLATION OF DROP POLE AND DISPLAY MOUNTING BRACKET, EXTEND CONDUCTORS IN ½" FLEXIBLE METAL CONDUIT, ROUTED INSIDE DROP POLE, TO EACH DISPLAY MOUNTING BRACKET. PROVIDE 120V, 20A DUPLEX RECEPTACLE ON REAR OF EACH DISPLAY MOUNTING BRACKET AND MAKE FINAL TERMINATIONS. COORDINATE DISPLAY LOCATIONS WITH STORE SETUP SUPERVISOR.
16.775	E.C. SHALL DISCONNECT, EXTEND, AND RECONNECT ALL ELECTRICAL CIRCUITRY FOR NEW OR RELOCATED EQUIPMENT. REFERENCE POWER PLANS AS APPLICABLE. VERIFY CONDITION OF BRANCH CIRCUIT, CONDUIT, AND WIRE PRIOR TO USE TO ENSURE THAT THEY MEET ALL U.L. RATINGS AND REPLACE AS REQUIRED. COORDINATE THIS PROCESS WITH CONSTRUCTION MANAGER TO MINIMIZE DOWNTIME. LABEL ALL ASSOCIATED PANELBOARD SCHEDULES TO REFLECT LOAD DESCRIPTIONS.
16.775A	E.C. SHALL DISCONNECT, EXTEND, AND RECONNECT ALL ELECTRICAL CIRCUITRY AND LOW VOLTAGE RACEWAYS. LABEL ALL ASSOCIATED PANELBOARD SCHEDULES TO REFLECT SYSTEM NUMBERS AND LOAD DESCRIPTION. VERIFY CONDITION OF BRANCH CIRCUIT, CONDUIT, AND WIRE PRIOR TO USE TO ENSURE THAT THEY MEET ALL U.L. RATINGS AND REPLACE AS REQUIRED. COORDINATE THIS PROCESS WITH CONSTRUCTION MANAGER TO MINIMIZE DOWNTIME.



6 ACC POWER PLAN
1/8" = 1'-0"

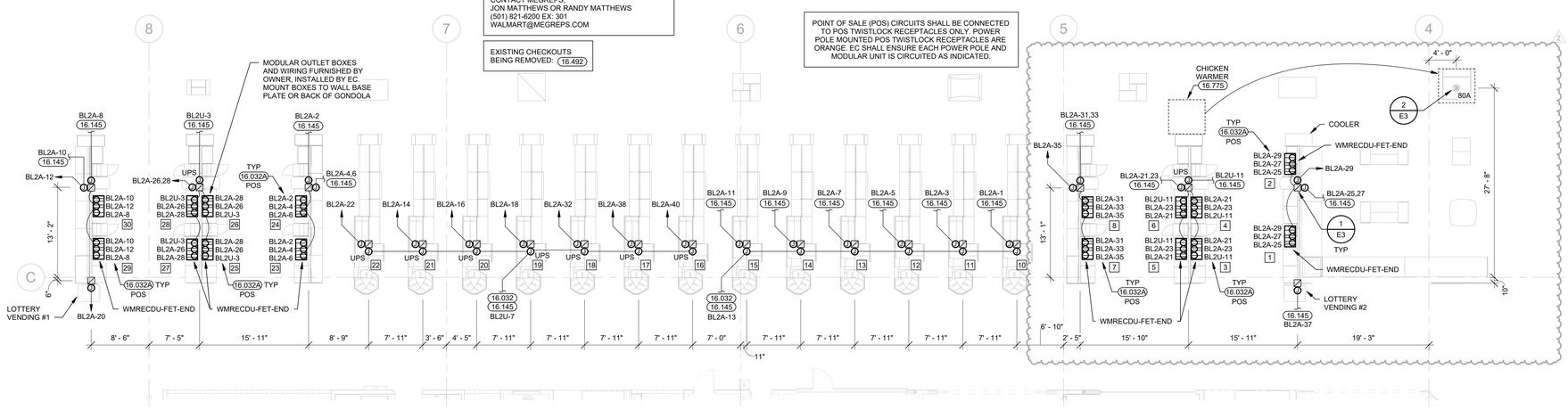
5 ACC POWER DEMO PLAN
1/8" = 1'-0"

CONTRACTOR TO FURNISH AND INSTALL NEW STARLINE BUSWAY (IF APPLICABLE) AND CIRCUIT BREAKER PLUG-IN UNITS AS REQUIRED:

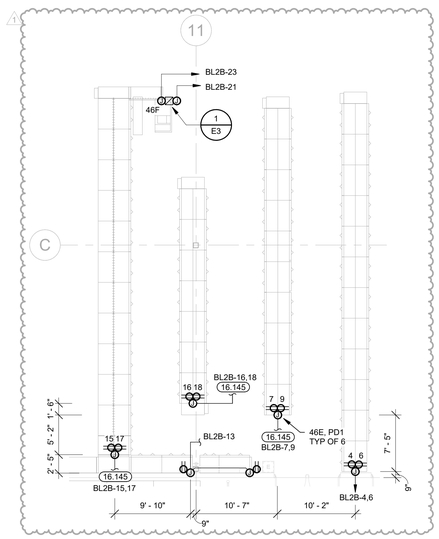
CONTACT MEGREPS,
JON MATTHEWS OR RANDY MATTHEWS
(501) 821-6200 EX: 301
WALMART@MEGREPS.COM

EXISTING CHECKOUTS BEING REMOVED: 16.492

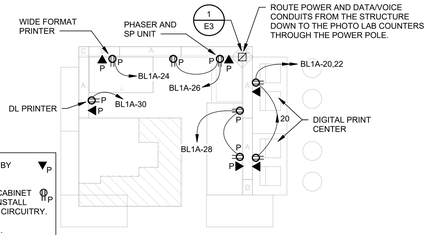
POINT OF SALE (POS) CIRCUITS SHALL BE CONNECTED TO POS TWISTLOCK RECEPTACLES ONLY. POWER POLE MOUNTED POS TWISTLOCK RECEPTACLES ARE ORANGE. EC SHALL ENSURE EACH POWER POLE AND MODULAR UNIT IS CIRCUITED AS INDICATED.



4 FRONT CHECKOUT POWER PLAN
1/8" = 1'-0"



3 COSMETICS POWER PLAN
1/8" = 1'-0"



VOICE/DATA BOX PRE-INSTALLED BY CABINET MANUFACTURER.

OUTLET BOX PRE-INSTALLED BY CABINET MANUFACTURER. FURNISH AND INSTALL RECEPTACLE, COVERPLATE, AND CIRCUITRY.

ALL EQUIPMENT IS SINGLE PHASE.

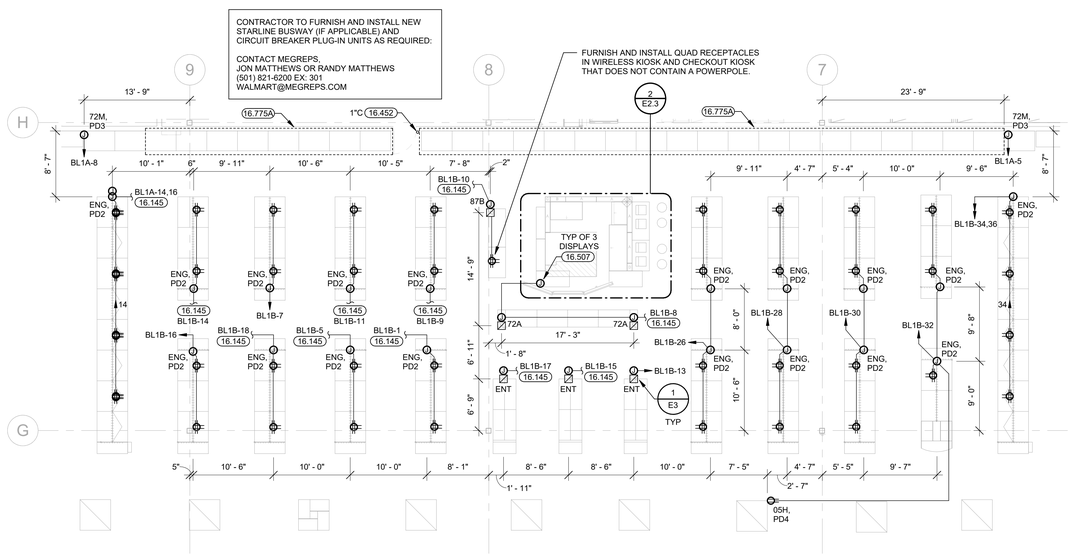
ROUTE ALL CIRCUITRY THROUGH COUNTERS AND WALLS UNLESS OTHERWISE NOTED.

2 PHOTO LAB POWER PLAN
1/4" = 1'-0"

CONTRACTOR TO FURNISH AND INSTALL NEW STARLINE BUSWAY (IF APPLICABLE) AND CIRCUIT BREAKER PLUG-IN UNITS AS REQUIRED:

CONTACT MEGREPS.
JON MATTHEWS OR RANDY MATTHEWS
(501) 821-6200 EX: 301
WALMART@MEGREPS.COM

FURNISH AND INSTALL QUAD RECEPTACLES IN WIRELESS KIOSK AND CHECKOUT KIOSK THAT DOES NOT CONTAIN A POWERPOLE.



1 ELECTRONICS POWER PLAN
1/8" = 1'-0"

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NORTH CAROLINA PROFESSIONAL SEAL 37166 ENGINEER ERIC KESTERSON

03/24/2026

ENLARGED POWER PLANS

SHEET: E2.3

ERIC S. KESTERSON

ELECTRICAL SYMBOLS LEGEND

12.17.21

(SYMBOLS APPLY ONLY WHEN USED ON DRAWINGS)

SYMBOL	DESCRIPTION
	LIGHT FIXTURE (WALL MOUNTED/CEILING MOUNTED)
	LIGHT FIXTURE
	LIGHT FIXTURE, NIGHT LIGHT
	VOLUMETRIC LIGHT FIXTURE
	TRACK LIGHTING
	EXIT FIXTURE (WALL MOUNTED/CEILING MOUNTED)
	EMERGENCY LIGHT (WALL MOUNTED/CEILING MOUNTED)
	EMERGENCY LIGHT REMOTE HEADS (WALL MOUNTED/CEILING MOUNTED)
$	SINGLE POLE SWITCH
$3	3-WAY SWITCH
$4	4-WAY SWITCH
$K	KEYED SWITCH
$D	DIMMER SWITCH
$VS	VARIABLE SPEED SWITCH
$M	MANUAL MOTOR SWITCH
$OS	SINGLE POLE OCCUPANCY SENSOR SWITCH
$OS2	DOUBLE POLE OCCUPANCY SENSOR SWITCH
OS	OCCUPANCY SENSOR SWITCH, FOUR-DIRECTION SENSING
OS	OCCUPANCY SENSOR SWITCH, ONE-DIRECTION SENSING
	RECEPTACLE, DUPLEX
	RECEPTACLE, DUPLEX, MOUNTED HORIZONTALLY
	RECEPTACLE, GFI
	RECEPTACLE, DUPLEX FLUSH FLOOR
	RECEPTACLE, DUPLEX ISOLATED GROUND FLUSH FLOOR
	RECEPTACLE, DOUBLE DUPLEX
	RECEPTACLE, DUPLEX ISOLATED GROUND
	RECEPTACLE, DOUBLE DUPLEX, ISOLATED GROUND
	RECEPTACLE, SIMPLEX TWIST LOCK, L5-15R, UNO
	RECEPTACLE, SIMPLEX TWIST LOCK, ISOLATED GROUND, L5-15R, UNO
	RECEPTACLE, DUPLEX TWIST LOCK, L5-15R, UNO
	RECEPTACLE, DUPLEX TWIST LOCK, ISOLATED GROUND, L5-15R, UNO
	RECEPTACLE, SPECIAL
	RECEPTACLE, SIMPLEX
	RECEPTACLE, PLUG-MOLD
J	JUNCTION BOX (WALL MOUNTED/CEILING MOUNTED)
T	THERMOSTAT (WALL MOUNTED/CEILING MOUNTED)
A	ALARM JUNCTION BOX, (WALL MOUNTED/CEILING MOUNTED)
R	ALARM JUNCTION BOX, FOR REMOTE TEST/RESET (WALL MOUNTED/CEILING MOUNTED)
S	SMOKE DETECTOR
	NON-FUSED DISCONNECT
	FUSED DISCONNECT
	EQUIPMENT CONNECTION POINT (PROVIDED WITH EQUIPMENT)
	CIRCUIT, CONCEALED IN WALLS OR CEILING, E INDICATES EXISTING WIRING
	CIRCUIT, CONCEALED IN SLAB FLOOR, E INDICATES EXISTING WIRING
	CIRCUIT, EXPOSED, E INDICATES EXISTING WIRING
	LOW VOLTAGE WIRING
	CONDUIT SLEEVE
	FLUSH MOUNTED PANELBOARD
	SURFACE MOUNTED PANELBOARD
	TELEPHONE / DATA BOX FOR ISD
	LOW VOLTAGE CABLE BOX FOR OTHER
	TELEPHONE, FLUSH FLOOR
	MOTOR
	TELEPOWER POLE
	PUSH BUTTON
B	BUZZER
SS	SAIL SWITCH JUNCTION BOX
	HORN / STROBE
DH	DOOR HOLD OPEN
TC	TIME CLOCK

ABBREVIATIONS

a, b, c	LOWER CASE LETTERS INDICATE SWITCHING CONFIGURATION
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
C	CONDUIT
CCT	CIRCUIT
CF	CEILING FAN
CW	CASH WRAP
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
G	GROUND
GC	GENERAL CONTRACTOR
GFEP	GROUND FAULT EQUIPMENT PROTECTION
GFI	GROUND FAULT CIRCUIT INTERRUPTER
HD	HAND DRYER
IG	ISOLATED GROUND
LCU	LIGHTING CONTROL UNIT
NL	NIGHT LIGHT
NTS	NOT TO SCALE
REC	RECEPTACLE
RC	REFRIGERATION CONTRACTOR
RH	RADIANT HEATER
SC	SECURITY CAMERA
TR	TAMPER RESISTANT
TYP	TYPICAL
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
WH	WATER HEATER
WP	WEATHER PROOF
WR	WEATHER RESISTANT

ERIC S. KESTERSON

VOICE/DATA ROUGH-IN SCHEDULE

06.24.22

DROP	ROUGH-IN NOTES:
▼a	FLUSH MOUNT JUNCTION BOX AT +20" (UNO) WITH (1) 3/4" CONDUIT STUBBED 12" ABOVE LAY-IN CEILING.
▼b	FLUSH MOUNT JUNCTION BOX AT +20" (UNO) WITH (1) 3/4" CONDUIT ROUTED TO NEAREST ACCESSIBLE CEILING SPACE.
▼c	SURFACE MOUNT JUNCTION BOX AT +66" (UNO) WITH (1) 3/4" CONDUIT STUBBED TO ACCESSIBLE CEILING SPACE.
▼j	SURFACE MOUNT JUNCTION BOX ADJACENT TO PACK CONTROLLER WITH (1) 3/4" CONDUIT STUBBED TO BUILDING ACCESSIBLE CEILING SPACE. COORDINATE PACK CONTROLLER JUNCTION BOX LOCATION WITH BAS INSTALLER.

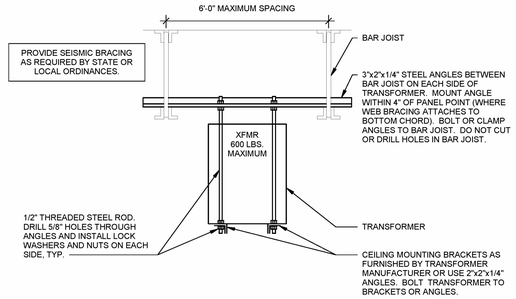
SCHEDULE GENERAL NOTES:

1. ALL JUNCTION BOXES SHALL BE DOUBLE GANG WITH SINGLE GANG PLASTER RING UNLESS NOTED OTHERWISE ON SCHEDULE.
2. ALL JUNCTION BOXES TO BE ROUGHED IN AT SCHEDULED HEIGHT UNLESS NOTED OTHERWISE ON DRAWINGS.
3. ALL CONDUITS SHALL BE TERMINATED WITH BUSHINGS.
4. PROVIDE PULL WIRE WITH EACH EMPTY RACEWAY (JUNCTION BOX/CONDUIT) INSTALLED.
5. CONDUIT RUNS SHALL HAVE NO MORE THAN 90 DEGREES OF TRANSITION BETWEEN PULL BOXES.
6. WHERE CONDUIT(S) TRAVERSE AREAS WITH CEILINGS OPEN TO STRUCTURE, CONDUIT(S) SHALL BE CONCEALED AS WELL AS POSSIBLE FROM VIEW FROM CUSTOMER AREA.
7. FOR CONDUIT RUNS SCHEDULED WITH 1-1/2" OR LARGER CONDUIT UTILIZE LARGE RADIUS SWEEPS AT POINTS OF TRANSITION.
8. ACCESSIBLE CEILING SPACE SHALL BE CONSIDERED 12 INCHES ABOVE A LAY-IN CEILING OR ABOVE BAR JOIST ACCESSIBLE BY A SCISSOR LIFT FOR AREAS OPEN TO STRUCTURE.

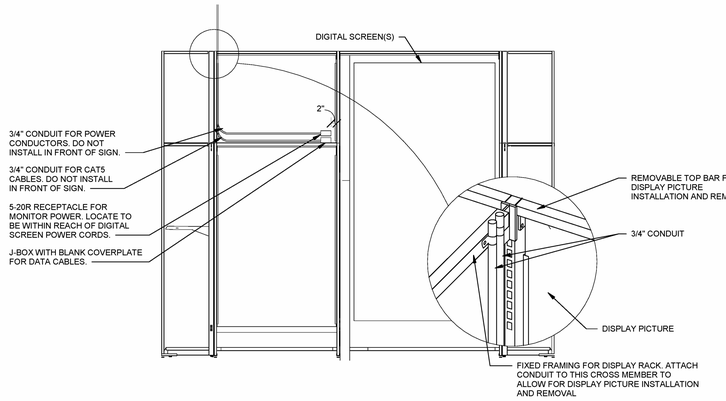
GENERAL NOTES

01.26.24

1. FURNISH AND INSTALL ALL MATERIALS, EQUIPMENT, AND LABOR, FOR A COMPLETE INSTALLATION IN ALL RESPECTS, READY FOR INTENDED USE AND IN STRICT ACCORDANCE WITH NEC, NESC, STATE, AND LOCAL CODES, AND MANUFACTURER'S RECOMMENDATIONS. PAY ALL NECESSARY FEES AND PERMITS.
   A. NO CIRCUITRY SHALL BE ALLOWED TO BE ROUTED ACROSS THE ROOF OR THE EXTERIOR SIDE OF THE EXTERIOR WALLS.
   B. ALL EQUIPMENT SHALL BE UL LISTED WHERE APPLICABLE.
   C. ARRANGE ALL WORK TO MINIMIZE DISRUPTIONS TO STORE OPERATIONS. COORDINATE ALL DISRUPTIONS WITH WALMART CONSTRUCTION MANAGER AND STORE MANAGER.
   D. CONTRACTOR SHALL VERIFY ALL WALL FINISH THICKNESS BEFORE INSTALLING BOXES. FURNISH AND INSTALL EXTENDED BOXES OR BOX EXTENDERS WHERE REQUIRED.
   E. CONTRACTOR SHALL VERIFY THAT ALL AFFECTED PANELBOARDS HAVE CIRCUIT BREAKER KNOCKOUTS PROPERLY COVERED ANDTHAT ALL TRIM IS IN GOOD CONDITION, ALLOWING NO ACCESS TO LIVE PARTS.
2. PROVIDE SEALS AT RACEWAY PENETRATIONS AS FOLLOWS:
   A. FIRE RATED WALLS: SEAL PER SPECIFICATIONS FOR FIRE STOPPING.
   B. NEUTRALIZATION AREA: SEAL PER MECHANICAL DETAIL.
   C. FREEZER/COOLER BOXES: SEAL WITH EXPANDING FOAM SEALANT.
   D. EXTERIOR: REFER TO ARCHITECTURAL DOCUMENTS FOR SEALING REQUIREMENTS AT ALL EXTERIOR MOUNTED DEVICES, FIXTURES, ENCLOSURES, AND RACEWAY PENETRATIONS.
3. PROVIDE A SEPARATE EQUIPMENT GROUNDING CONDUCTOR (SIZE PER NEC) IN PVC TYPE CONDUIT, POWER AND LIGHTING CIRCUITS, ISOLATED GROUND CIRCUITS, OR AS SHOWN ON PLANS. CONDUIT SHALL BE SIZED PER NEC BASED ON THWN 600 VOLT COPPER SINGLE CONDUCTORS, PLUS THE EQUIPMENT GROUNDING CONDUCTOR.
4. WIRING DEVICES: DEVICE MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO CENTER OF OUTLET BOX UNLESS NOTED OTHERWISE ON PLANS. COORDINATE THE STANDARD MOUNTING HEIGHTS WITH MASONRY:
   A. SWITCHES +44"
   B. RECEPTACLES +20"
   C. VOICE/DATA +20"
5. WIRING SHALL INCLUDE FINAL CONNECTION TO ALL EQUIPMENT IN CONFORMANCE WITH EQUIPMENT SUPPLIER WIRING DIAGRAMS.
6. CONTRACTOR IS RESPONSIBLE FOR PROVIDING AN UPDATED AND COMPLETE TYPEWRITTEN CIRCUIT IDENTIFICATION SCHEDULE FOR EVERY PANELBOARD AFFECTED BY THIS PROJECT.
7. NEW BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICES INSTALLED IN EXISTING PANELBOARDS OR DISTRIBUTION BOARDS SHALL MATCH THE TYPE AND AIC RATING OF EXISTING OVERCURRENT PROTECTIVE DEVICES.
8. BRANCH CIRCUIT CONDUCTORS SHALL BE MINIMUM #12 AWG UNLESS NOTED OTHERWISE IN SCHEDULES. WHERE 20A BRANCH CIRCUITS HAVE #8 AND LARGER WIRE SPECIFIED, #10 AWG WIRE SHALL BE USED FOR THE FINAL CONNECTION (15-FT MAXIMUM).
9. WHERE BRANCH CIRCUITS ARE GROUPED, SIZE CONDUIT AND DERATE CURRENT CARRYING CONDUCTORS PER NEC.
10. PROVIDE UL LISTED HANDLE TIES ON ALL MULTIWIRE BRANCH CIRCUITS PER NEC REQUIREMENTS.
11. SUPPORTS FROM STRUCTURE: NO ATTACHMENT OF ANY TYPE SHALL BE MADE TO BRIDGING OR JOIST WEB MEMBERS. UTILIZE ONLY THE TOP AND BOTTOM CHORDS FOR SUPPORTING THE ELECTRICAL SYSTEM INSTALLATIONS.
12. DEVICES SHOWN ON COOLER/FREEZER PANELS SHALL BE SURFACE MOUNTED UNLESS NOTED OTHERWISE. SEAL DEVICES TO COOLER/FREEZER PANELS WITH SILICONE SEALANT.
13. SURFACE MOUNTED CONDUIT ON COOLER/FREEZER PANELS OR IN FOOD PREP AREAS SHALL BE INSTALLED WITH GALVANIZED 1/2" STANDOFF CONDUIT HANGERS TO ALLOW FOR CLEANING.
14. ONLY FEEDER CIRCUITS NOTED ON THE ONE LINE DIAGRAM AND BRANCH CIRCUITS NOTED BY LEGEND SHALL BE INSTALLED UNDER SLAB. PROVIDE EXTERIOR COATED GRC BENDS ON ALL CONDUIT RUNS THAT HAVE 45 DEGREE BENDS OR GREATER. REFER TO SPECIFICATION SECTION 16.100 FOR UNDER SLAB.
15. SEISMIC ZONE REQUIREMENTS: PROVIDE EXPANSION COUPLINGS AND BRACING FOR ELECTRICAL EQUIPMENT AS REQUIRED BY LOCAL CODES.
16. EXISTING ELECTRICAL AND ALARM:
   A. WHERE DEMOLITION OR NEW CONSTRUCTION INTERRUPTS EXISTING ELECTRICAL CIRCUITS FEEDING EXISTING EQUIPMENT, DEVICES, OR LIGHTING TO REMAIN, BUT NOT SHOWN ON DRAWINGS, PROVIDE LABOR AND MATERIALS TO REWORK CIRCUITRY, AS REQUIRED, TO MAINTAIN EXISTING OPERATION.
   B. IF DEMOLITION OR NEW CONSTRUCTION WILL DISRUPT EXISTING UNDERGROUND SERVICES (ELECTRICAL, TELEPHONE, PARKING LOT LIGHTING CIRCUITRY, ETC.) PROVIDE ALL MATERIALS AND LABOR AS REQUIRED TO REROUTE, SLEEVE, OR OTHERWISE REWORK THESE SERVICES TO MAINTAIN THEIR EXISTING OPERATION.
   C. EXERCISE CAUTION AROUND ALARM AND SECURITY CABLES DURING DEMOLITION AND CONSTRUCTION. PROTECT ALARM AND SECURITY CABLES FROM ACCIDENTAL DAMAGE SO THAT SYSTEMS REMAIN OPERATIONAL AT ALL TIMES.
   D. DISPOSE OF ALL REMOVED MATERIALS, UNLESS OTHERWISE NOTED.
17. EXISTING ELECTRICAL DEMOLITION:
   A. GENERAL: REMOVE OR RELOCATE EXISTING ELECTRICAL EQUIPMENT, CONDUIT AND CONDUCTORS AS INDICATED ON THE DRAWINGS, OR ONLY AS REQUIRED BY DEMOLITION. REMOVE ALL PANELBOARDS, DISCONNECT SWITCHES, BOXES, RELAYS, TIME SWITCHES, LIGHTS, DEVICES, ETC., WHICH WILL NOT BE REUSED.
   B. SALES FLOOR: REMOVE UNUSED POWER DROP CONDUIT, CONDUCTORS AND RELATED DEVICES SERVING SALES AREA GONDOLAS BEING RELOCATED OR REMOVED. EXISTING CONDUIT AND CONDUCTORS MAY BE REUSED FOR NEW POWER DROPS WHERE SIZE, RATING, AND CONDITION MEET REQUIREMENTS INDICATED ON PLANS AND ALL U.L. RATINGS. REMOVE ALL UNUSED CONDUIT AND CONDUCTORS BACK TO POINT OF ORIGIN WHENEVER FEASIBLE. IF CIRCUIT IS NOT REUSED, REMOVE CIRCUIT BREAKER AND REPLACE WITH FILLER PLATE. EXCEPTION: DISTRIBUTION AND POWER SWITCH BREAKERS SHALL BE ETR AS "SPARE"; PROVIDE HANDLE LOCK OFF DEVICE TO LOCK "SPARE" CIRCUIT BREAKER IN THE "OFF" POSITION. UPDATE TYPEWRITTEN CIRCUIT IDENTIFICATION SCHEDULE AS "SPACE" OR "SPARE".
   C. CONDUIT AND WIRING TO BE ABANDONED IN CEILING SPACES AND OTHER NON-PUBLIC AREAS (I.E., THROUGH STOCKROOM AREA): CUT WIRING LOOSE AND REMOVE FROM RACEWAY(S), LEAVING RACEWAY(S) IN PLACE. CONDUIT TO BE ABANDONED IN WALLS OR FLOORS SHALL BE REMOVED BACK TO FINISHED SURFACE AND CAPPED INSIDE. REPAIR SURFACE(S) TO MATCH ADJACENT.
   D. ALL CIRCUIT BREAKERS SERVING BRANCH CIRCUITS TO BE REMOVED SHALL ALSO BE REMOVED. REMOVE CIRCUIT BREAKER AND REPLACE WITH FILLER PLATE. EXCEPTION: DISTRIBUTION AND POWER SWITCH BREAKERS SHALL BE ETR AS "SPARE". PROVIDE HANDLE LOCK OFF DEVICE TO LOCK "SPARE" CIRCUIT BREAKER IN THE "OFF" POSITION. UPDATE TYPEWRITTEN CIRCUIT IDENTIFICATION SCHEDULE AS "SPACE" OR "SPARE".
   E. DEMOLISHED FLUORESCENT LIGHT FIXTURES: REFER TO SELECTIVE SITE DEMOLITION SPECIFICATION FOR DISPOSAL OF LIGHT FIXTURE.
   F. BUILDING COMPONENTS ABANDONED BY THE SCOPE OF WORK SHALL BE SECURED TO PREVENT FALLING, LOOSENING, OR CREATING DAMAGE OF ANY KIND IN THE FUTURE.
18. DATA AND PHONE CONDUIT INSTALLATION MILESTONE DATE: ALL RACEWAY AND CONDUIT SLEEVES FOR DATA AND PHONE CABLING TO BE INSTALLED 3 WEEKS PRIOR TO CONTRACT SUBSTANTIAL COMPLETION DATE.
19. ETHERNET CABLE:
   A. FURNISH AND INSTALL JUNCTION BOXES AS SHOWN ON PLANS. PROVIDE CONDUIT AS REQUIRED BY LOCAL CODES AND/OR ORDINANCES.
   B. ETHERNET CABLE IS FURNISHED BY OTHERS.
   C. ELECTRICAL CONTRACTOR SHALL INSTALL CABLE IN POWER POLES.
   D. ELECTRICAL CONTRACTOR SHALL INSTALL OTHER CABLE AS DIRECTED BY WALMART CONSTRUCTION MANAGER.



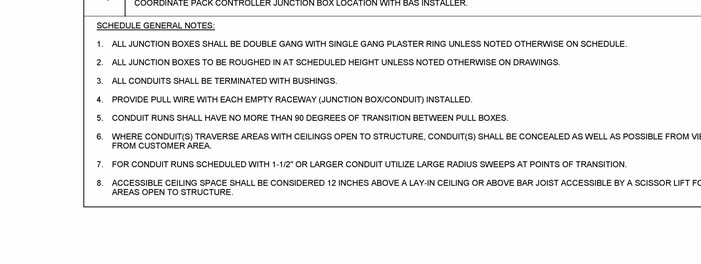
7 SUSPENDED TRANSFORMER MOUNTING
NTS



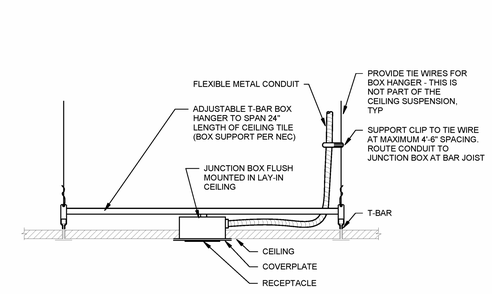
6 FOCAL WALL ELEVATION
NTS

5 SUSPENDED DROP CORD - LAY-IN CEILING
NTS

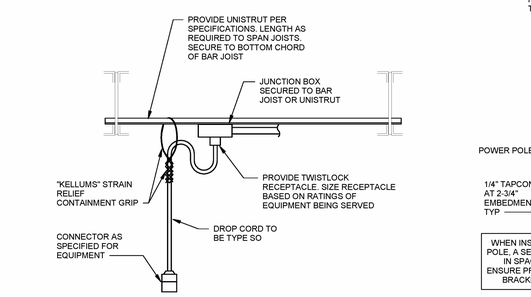
4 AP REPEATER
NTS



1 POWER POLE CONNECTION
NTS



3 CEILING MOUNTED RECEPTACLE
NTS



2 SUSPENDED DROP CORD - OPEN STRUCTURE
NTS

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELF WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

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DOCUMENT DATE:	01/08/25

ALABAMA LICENSED No. 31485-E PROFESSIONAL ELECTRICAL ENGINEER ERIC S. KESTERSON

01/07/2025

ELECTRICAL DETAILS

SHEET: E3

BUILDING ELECTRICAL SERVICE LOAD SUMMARY			
SERVICE OCCUPANCY TYPE:	Retail	SERVICE DESCRIPTION:	
SERVICE SQUARE FOOTAGE:	186,902	480Y/277V, 3PH	

LOAD DESCRIPTION	Connected KVA	Demand FACTOR	Demand KVA
EXISTING PEAK DEMAND LOAD @ 0.9 pf *	861.11	125%	1076.39
HVAC - SUMMER	13.19	100%	13.19
HVAC - WINTER	0.00	0%	0.00
LIGHTING	19.28	125%	24.10
RECEPTACLES	42.55	100/50%	26.28
KITCHEN EQUIPMENT	33.18	65%	21.57
MOTOR LOADS	2.38	100%	2.38
LARGEST MOTOR LOAD (3HP)	3.96	125%	4.95
SUPPLEMENTAL ELECTRIC HEAT	44.08	100%	44.08
MISCELLANEOUS EQUIPMENT	79.99	100%	79.99
REFRIGERATION EQUIPMENT	31.85	100%	31.85
SIGNAGE	2.56	125%	3.20
EXTERIOR LIGHTING	0.19	125%	0.24
EXISTING LOAD TO BE DELETED	145.03	100%	145.03
TOTAL LOAD	989.30	KVA	1183.19
TOTAL AMPACITY	1189.94	AMPS	1423.15
SERVICE AMPACITY	3000	AMPS	3000.00
SPARE CAPACITY		AMPS	1577

*PER METERING REPORT WITH PEAK DEMAND OF: 775 KW Aug-2023

FEEDER SCHEDULE

ALL CONDUIT AND CONDUCTOR SIZES ARE BASED ON EMT WITH 40% FILL, 75°C RATED TERMINATIONS AND TYPE THHN/THWN-2 INSULATION. FOR NON-EMT CONDUIT OR TERMINATIONS OR INSULATION TYPES RATED LESS THAN 75°C, MODIFY SIZES ACCORDING TO NEC.

XXX	FEEDER OR GROUND SIZE
104	(4)#3, (1)#8 G, 1-1/4" C
123	(3)#1, (1)#6 G, 1-1/4" C
G2	#2 COPPER GROUND, 3/4" C
T224	(4)#4/0, (1)#2 SSBJ, 2-1/2" C
V224B	(4)300 kcmil, (1)#2 G, 3" C

ONE-LINE DIAGRAM LEGEND

11.19.10

NEW EQUIPMENT

EXISTING EQUIPMENT

EQUIPMENT TO BE DEMOLISHED

NOTE:
ALL OF THE ELECTRICAL DEVICES SHOWN ON THE RISER DIAGRAM ARE EXISTING AND ARE BASED UPON AS-BUILT DRAWINGS. E.C. SHALL VERIFY THE EXACT EXISTING CONDITIONS, SIZES AND LOCATIONS OF EQUIPMENT PRIOR TO ROUGH-IN. THIS RISER IS SHOWN FOR INFORMATIONAL PURPOSES ONLY AND ANY NEW DEVICES ARE SHOWN IN BOLD AND ARE NOTED. DURING CONSTRUCTION, THE STORE SHALL STAY OPEN FOR BUSINESS. ANY NECESSARY POWER DOWNTIME SHALL BE SCHEDULED AND APPROVED BY WALMART CONSTRUCTION MANAGER.

COORDINATE ALL CHANGES TO EXISTING ELECTRICAL SERVICE AND METERING WITH UTILITY COMPANY.

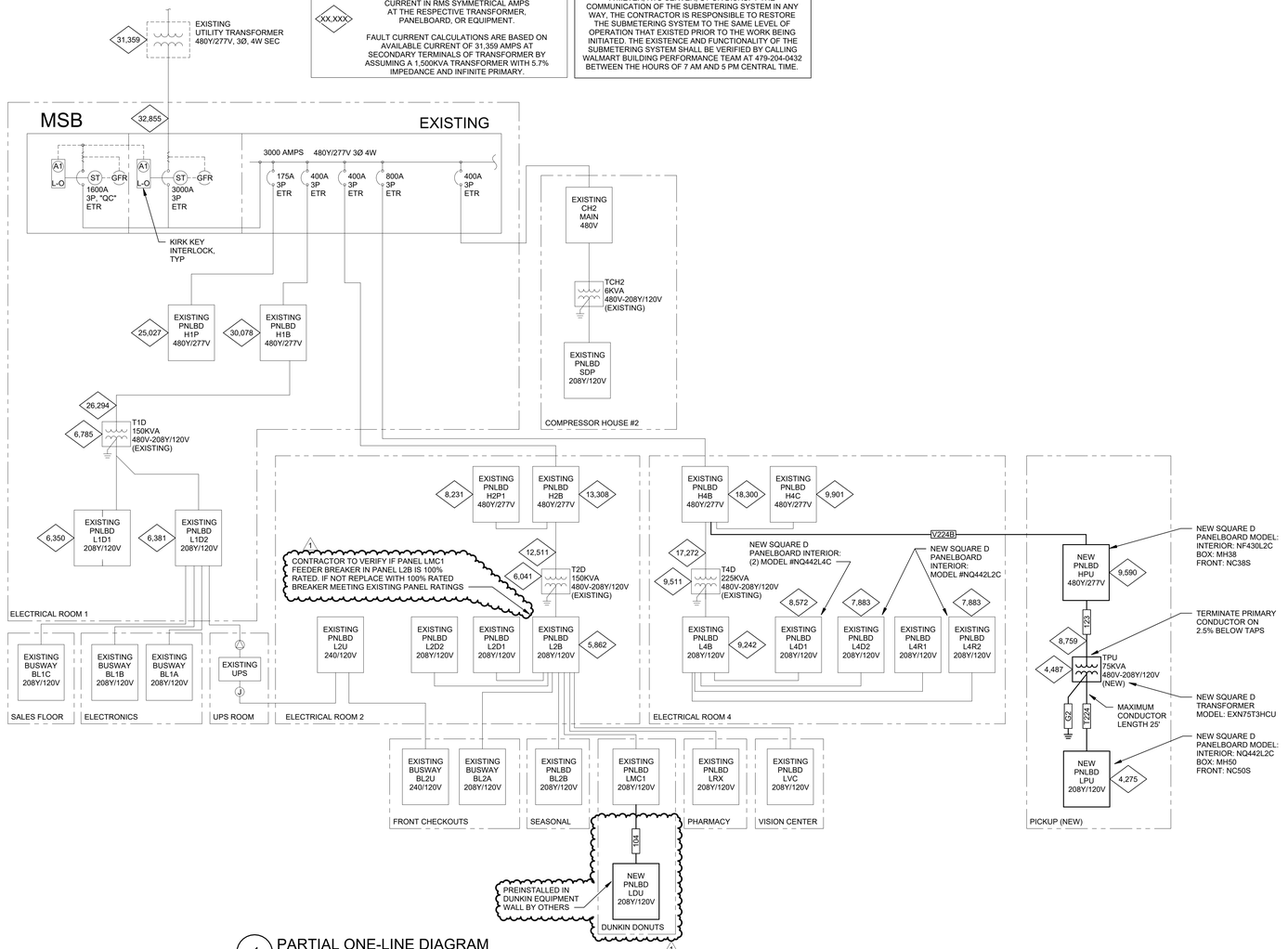
STORE ADDRESS:	WALMART GENERAL REMODEL 2800 NC 24-87 CAMERON, NORTH CAROLINA
UTILITY COMPANY:	CENTRAL EMC
CONTACT:	CEMC
PHONE:	(919) 774-4900

EXISTING DISTRIBUTION SYSTEM IS SERIES RATED. E.C. SHALL PROVIDE CIRCUIT BREAKER(S) THAT WILL MAINTAIN EXISTING MANUFACTURER'S U.L. LISTED SERIES RATED SYSTEM.

XX,XXX — REPRESENTS THE AVAILABLE FAULT CURRENT IN RMS SYMMETRICAL AMPS AT THE RESPECTIVE TRANSFORMER, PANELBOARD, OR EQUIPMENT.

FAULT CURRENT CALCULATIONS ARE BASED ON AVAILABLE CURRENT OF 31,359 AMPS AT SECONDARY TERMINALS OF TRANSFORMER BY ASSUMING A 1,500KVA TRANSFORMER WITH 5.7% IMPEDANCE AND INFINITE PRIMARY.

EXISTING SUBMETERING: IF IT IS NECESSARY TO REMOVE A METER, RTU SERVER, CT OR DISRUPT THE COMMUNICATION OF THE SUBMETERING SYSTEM IN ANY WAY, THE CONTRACTOR IS RESPONSIBLE TO RESTORE THE SUBMETERING SYSTEM TO THE SAME LEVEL OF OPERATION THAT EXISTED PRIOR TO THE WORK BEING INITIATED. THE EXISTENCE AND FUNCTIONALITY OF THE SUBMETERING SYSTEM SHALL BE VERIFIED BY CALLING WALMART BUILDING PERFORMANCE TEAM AT 479-204-0432 BETWEEN THE HOURS OF 7 AM AND 5 PM CENTRAL TIME.



1 PARTIAL ONE-LINE DIAGRAM
NTS

REFER TO L4D1, L4D2 AND L4R2 ON SHEET E4.2 FOR ADDITIONAL UPDATES AS PART OF THIS PROJECT.

FOR LOCKOUT TAG OUT PROCEDURES REFER TO SPECIFICATION SECTION 01351 AND THE MASTER CONSTRUCTION AGREEMENT FOR WALMART GLOBAL ETHICS AND COMPLIANCE. "COMPLIANCE PERFORMANCE STANDARD FOR CONSTRUCTION."

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELF WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

PANELBOARD NOTES ()

01.26.24

1. TERMINATE GROUND ON ISOLATED GROUND BUS.
2. INSTALL LOCKING DEVICE (LOCK-OFF FOR MAINTENANCE). LOCKING DEVICE SHALL BE UL LISTED. MANUFACTURER SHALL MATCH EXISTING PANELBOARD MANUFACTURER.
3. INSTALL LOCKING DEVICE (LOCK-ON FOR CRITICAL LOAD).
4. GFI BREAKER FOR PERSONNEL PROTECTION (5MA).
5. GFI BREAKER FOR EQUIPMENT PROTECTION (30MA).
6. CONDUCTOR SIZE HAS BEEN INCREASED FOR VOLTAGE DROP. SIZE EQUIPMENT GROUNDING CONDUCTOR PROPORTIONATELY PER NEC.
7. REFER TO ONE-LINE DIAGRAM FOR AVAILABLE FAULT CURRENT FOR INTERRUPT RATINGS.
8. REFER TO ONE-LINE DIAGRAMS FOR WIRE SIZES.
9. FACTORY WIRED TO LOAD.
10. BREAKER SHALL BE HIGH MAGNETIC TYPE.
11. BREAKER REMOVAL - FIELD VERIFY CIRCUIT BREAKER IS NOT SERVING AN EXISTING LOAD. IF NO EXISTING LOAD, REMOVE CIRCUIT BREAKER AND PROVIDE FILLER PLATE. IF BREAKER IS SERVING A LOAD, IDENTIFY LOAD SERVED. UPDATE CIRCUIT IDENTIFICATION SCHEDULE AS "SPACE" OR INDICATE LOAD SERVED.
12. DUAL TAP REMOTELY OPERATED BREAKER. CONNECT EMERGENCY/NIGHT LIGHTING TO UNSWITCHED TERMINATION.
13. EXISTING CIRCUIT AND/OR CIRCUIT BREAKER.
14. ROUTE CIRCUIT THROUGH CONTACTOR.
15. PROVIDE INTERLOCK WIRING WITH EXHAUST HOOD ANSUL SYSTEM.
16. RELOCATED CIRCUIT FROM EXISTING PANELBOARD.
17. PROVIDE BLANK CIRCUIT BREAKER FILLER PLATE FOR EXPOSED SPACE IN PANELBOARD.
18. PROVIDE U.L. LISTED OVERCURRENT DEVICE TO COORDINATE AND MAINTAIN MANUFACTURER'S SERIES RATED SYSTEM.
19. EXISTING CIRCUIT BREAKER TO REMAIN. VERIFY CONDITION OF CIRCUIT BREAKER TO ENSURE THAT IT IS OPERATIONAL AND MEETS ALL U.L. RATINGS.
20. ROUTE CIRCUIT THROUGH EXISTING LCU CABINET UTILIZING EXISTING RELAY AND CONTROLS. UPDATE LCU IDENTIFICATION SCHEDULE WITH LOAD IDENTIFICATION.
21. REMOTELY OPERATED CIRCUIT BREAKER. REFER TO BUILDING AUTOMATION SYSTEM PLANS FOR CIRCUIT BREAKER CONTROL.
22. EXISTING LOAD - TRACE EXISTING CIRCUIT, IDENTIFY LOAD AND UPDATE CIRCUIT IDENTIFICATION SCHEDULE FOR LOAD SERVED. IF CIRCUIT IS NOT IN USE, REFER TO PANELBOARD NOTE (11).
23. ROUTE CIRCUIT THROUGH ENCLOSED GFI BREAKER FOR PERSONNEL PROTECTION (5MA).
24. SPARE - FIELD VERIFY CIRCUIT BREAKER IS NOT SERVING AN EXISTING LOAD. IF NO EXISTING LOAD, PROVIDE LOCK OFF DEVICE TO LOCK SPARE BREAKER IN THE OFF POSITION. IF BREAKER IS SERVING A LOAD, IDENTIFY LOAD SERVED. UPDATE CIRCUIT IDENTIFICATION SCHEDULE AS "SPARE" OR INDICATE LOAD SERVED.
25. EXISTING LOAD - TRACE EXISTING CIRCUIT, IDENTIFY LOAD AND UPDATE CIRCUIT IDENTIFICATION SCHEDULE FOR LOAD SERVED. IF CIRCUIT IS NOT IN USE, REFER TO PANELBOARD NOTE (24).
26. SUBMETERED LOAD - INSTALL CT'S AND ROUTE LEADS TO POWER METER INDICATED IN SUBMETER SCHEDULE. FINAL TERMINATIONS AT METER AND COMMISSIONING BY OTHERS.
27. ADJUSTABLE TRIP BREAKER - ADJUST BREAKER SETTINGS PER PROTECTIVE DEVICE SETTINGS REPORT IN SPECIFICATIONS.
28. REPLACE EXISTING CIRCUIT BREAKER WITH NEW CIRCUIT BREAKER. REFERENCE PROTECTIVE DEVICE SETTINGS REPORT FOR MANUFACTURER, BREAKER TYPE, AND SETTINGS.

GENERAL NOTES:
1. NEW BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICES PLACED IN EXISTING PANELBOARDS OR DISTRIBUTION BOARDS SHALL MATCH THE TYPE AND AIC RATING OF EXISTING OVERCURRENT PROTECTION DEVICES IN SAID BOARD.
2. E.C. SHALL TRACE ALL ELECTRICAL CIRCUITS FOR EVERY EXISTING PANELBOARD AFFECTED BY THIS PROJECT. IDENTIFY LOADS ON EACH CIRCUIT. PROVIDE A COMPLETE TYPEWRITTEN CIRCUIT IDENTIFICATION SCHEDULE FOR EVERY AFFECTED PANELBOARD. PROVIDE THE DATE THAT THE SCHEDULE IS CREATED.
3. ALL OVERCURRENT DEVICES ARE NEW UNLESS NOTED OTHERWISE.

SOURCE OF SUPPLY NOTE

CONTRACTOR TO VERIFY THE FEEDER ORIGINATION POINT SOURCE OF POWER FOR ALL DISTRIBUTION BOARDS, PANELBOARDS, AND BUSWAY AFFECTED BY THE REMODEL SCOPE OF WORK. PROVIDE A LAMINATED PLASTIC NAMEPLATE PER SPECIFICATIONS INDICATING THIS INFORMATION.

EXAMPLES:
H1A FED FROM MSWB
L1D FED FROM H1B VIA T1D

TRANSFORMER

PROVIDE LAMINATED NAMEPLATE FOR ALL TRANSFORMERS WHERE PRIMARY DISCONNECTING MEANS IS NOT LOCATED IN SIGHT OF TRANSFORMER. NAMEPLATE SHALL INDICATE PRIMARY SOURCE OF POWER AND LOCATION OF DISCONNECTING MEANS.

ARC FLASH

ARC FLASH HAZARD WARNING LABELING REQUIREMENTS PER NEC ARE PROVIDED BY OWNER UNDER SEPARATE CONTRACT.

POWER INTERRUPTION NOTE

11 30 18

COORDINATE ALL WORK THAT REQUIRES POWER INTERRUPTION$ TO THE STORE WITH THE STORE MANAGER AND THE WALMART CONSTRUCTION MANAGER A MINIMUM OF 48 HOURS IN ADVANCE OF ALL STORE POWER INTERRUPTIONS. IN ADDITION, IF THE MAIN ELECTRICAL SWITCHGEAR REQUIRES WORK AND DOES NOT HAVE A MAIN SERVICE DISCONNECTING MEANS. COORDINATE WITH THE UTILITY COMPANY A MINIMUM OF TWO WEEKS IN ADVANCE OF THE STORE POWER INTERRUPTION. IF STORE IS NOT OPEN 24 HOURS PER DAY, ALL STORE POWER INTERRUPTIONS ARE TO BE ACCOMPLISHED AFTER NORMAL STORE BUSINESS HOURS. PROVIDE TEMPORARY POWER AS REQUIRED PER SPECIFICATIONS. INSTALLATION OF NEW EQUIPMENT SHALL BE COMPLETED AND THE POWER SYSTEM TESTED AND RE-ENERGIZED PRIOR TO THE TIME ESTABLISHED BY THE STORE MANAGER AND THE WALMART CONSTRUCTION MANAGER.

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NORTH CAROLINA PROFESSIONAL SEAL 37166 ENGINEER ERIC KESTERSON

12/04/2025

ELECTRICAL ONE-LINE DETAILS AND SCHEDULES

SHEET: E4

ERIC S. KESTERSON

POWER-SWITCHING PNLBD: H1P (ETR)

BUS AMPS: 250A
MAIN SIZE/TYPE: MLO — MOUNTING: SURFACE
VOLTS/PHASE: 480Y/277V, 3PH, 4W — SERVES: LIGHTING
SECTION: 1 — LOCATION: ELEC ROOM 1

CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	C	DESCRIPTION	CKT NO.
1	GM SALES FLOOR LTG #1 (13) [E]	4,340			EX	20	1								2
3	GM SALES FLOOR LTG #2 (13) [E]		4,340		EX	20	1	3	30	EX				TVSS (13)	4
5	GM SALES FLOOR LTG #3 (13) [E]			4,200	EX	20	1								6
7	GM SALES FLOOR LTG #4 (13) [E]	4,060			EX	20	1	**1**	**20**	**12**	**518**				**SEC/PU CANOPY LTG (19) [LE]**	8
9	GM SALES FLOOR LTG #5 (13) [E]		3,920		EX	20	1	1	20	EX		950			SECURITY LTG #2 (13) [E]	10
11	GM SALES FLOOR LTG #6 (13) [E]			3,920	EX	20	1	1	20	EX			3,880	STOCKROOM LTG (13) [E]	12
13	GM SALES FLOOR LTG #7 (13) [E]	3,920			EX	20	1	1	20	EX	2,640			RECEIVING LTG #1 (13) [E]	14
15	GM SALES FLOOR LTG #8 (13) [E]		3,920		EX	20	1	1	20	EX		1,790		RECEIVING LTG #2 (13) [E]	16
17	GM SALES FLOOR LTG #9 (13) [E]			4,060	EX	20	1	**1**	**20**	**12**			**2,129**	**REAR OFFICE LTG (19) [LE]**	18
19	GM SALES FLOOR LTG #10 (13) [E]	4,060			EX	20	1	1	20	EX	1,470			REAR HALLWAY LTG (13) [E]	20
21	GM SALES FLOOR LTG #11 (13) [E]		4,060		EX	20	1	1	20	EX		1,730		HALLWAY / CLR / FRZR LTG (13) [E]	22
23	GM SALES FLOOR LTG #12 (13) [E]			4,060	EX	20	1	**1**	**20**					**SPARE (24)**	24
25	GROC. SALES FLR LTG #1 (13) [E]	3,850			EX	20	1	**1**	**20**	**12**	**2,800**			**SUSP FEATURE LTG (19,21) [L]**	26
27	GROC. SALES FLR LTG #2 (13) [E]		3,430		EX	20	1	**1**	**20**					**SPARE (24)**	28
29	GROC SALES FLR LTG #3 (13) [E]			3,640	EX	20	1	**1**	**20**					**SPARE (24)**	30
31	GROC. SALES FLR LTG #4 (13) [E]	2,940			EX	20	1								32
33	GC SALES FLOOR LTG (13) [E]		1,680		EX	20	1	2	20	EX	1,130			STORE SIGN (13) [E]	34
35	PERIMETER LTG #1 (13) [E]			3,920	EX	20	1					1,130			36
37	PERIMETER LTG #2 (13) [E]	2,960			EX	20	1	2	20	EX	260			PARKING LOT LTG (13) [E]	38
39	TLE CUST SERV LTG (13) [E]		630		EX	20	1	2	20	EX		340			40
41	**EMERGENCY LTG (19) [LE]**			**449**	**12**	**20**	**1**						340	TRUCKWELL SEC LTG (13) [E]	42
43	SPACE						1	1						SPACE	44
45	SPACE						1	1						SPACE	46
47	SPACE						1	1						SPACE	48
49	SPACE						1	1						SPACE	50
51	SPACE						1	1						SPACE	52
53	SPACE						1	1						SPACE	54
	SUBTOTAL	26,130	21,980	24,249							8,818	5,940	6,609	SUBTOTAL	

TOTAL PHASE A - VA	34,948	LOAD		CONN. VA	DF	LOAD		CONN. VA	DF
AMPS	126	COOLING	[C]		1.00	REFRIG	[F]		1.00
TOTAL PHASE B - VA	27,920	HEATING	[H]		0	SIGNAGE	[S]		1.25
AMPS	101	LIGHTING	[L]	3,426	1.25	KITCHEN	[K]		1.00
TOTAL PHASE C - VA	30,858	RECEPTACLES	[R]		1.0/.5	EXISTING	[E]	90,300	1.00
AMPS	111	MOTORS	[M]		1.00	LRG MOTOR			1.25
TOTAL PNLBD - VA	93,726	SUPP HEAT	[U]		1.00	SHOW WND [W]			1.25
AMPS	113	MISC EQUIP	[Z]		1.00	LTG TRACK			1.00

TOTAL DEMAND	
	94,583 VA
	114 A

POWER-SWITCHING PNLBD: H2P1 (ETR)

BUS AMPS: 250A
MAIN SIZE/TYPE: MLO — MOUNTING: SURFACE
VOLTS/PHASE: 480Y/277V, 3PH, 4W — SERVES: LIGHTING
SECTION: 1 — LOCATION: ELEC ROOM 2

CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	C	DESCRIPTION	CKT NO.
1	**GM VESTIBULE LTG (19) [LE]**	**964**			**12**	**20**	**1**	1	20	EX	3,220			PERIMETER LTG #1 (13) [E]	2
3	**OFFICE / CUST SERV LTG (19) [LE]**		**2,163**		**12**	**20**	**1**	1	20	EX		4,180		PERIMETER LTG #2 (13) [E]	4
5	**PHARMACY LTG (19) [L]**			**646**	**12**	**20**	**1**	1	20	EX			4,250	PERIMETER LTG #3 (13) [E]	6
7	PHARMACY SALES LTG (13) [E]	1,570			EX	20	1	**1**	**20**	**12**	**700**			**GC LIVE GOODS LTG (19) [LE]**	8
9	FLAGPOLE LTG (13) [E]		190		EX	20	1	1						SPACE	10
11	**VISION CENTER LTG (19) [LE]**			**1,913**	**12**	**20**	**1**	1						SPACE	12
13	**PHARM DRIVE-THRU LTG (19) [L]**	**152**			**12**	**20**	**1**	1						SPACE	14
15	**SUSPEND PROD LTG #1 (19,21) [L]**		**1,480**		**12**	**20**	**1**	1						SPACE	16
17	**SUSPEND PROD LTG #2 (19,21) [L]**			**2,072**	**12**	**20**	**1**	1						SPACE	18
19	TENANT SPACE #1 LTG (13) [LE]	1,192			EX	20	1	1						SPACE	20
21	**TENANT SPACE #2 LTG (19) [E]**		**840**		**12**	**20**	**1**	1	20	EX				SPACE	22
23	**DUNKIN DONUTS LTG (19) [L]**			**402**	**12**	**20**	**1**	1						SPACE	24
25	**APPAREL FEATURE LTG (19,21) [L]**	**3,200**			**12**	**20**	**1**	1						SPACE	26
27	**SPARE (24)**				**20**	**1**	1							SPACE	28
29	SPACE						1	1						SPACE	30
31	SPACE						1	1						SPACE	32
33	SPACE						1	1						SPACE	34
35	SPACE						1	1						SPACE	36
37							1	1						SPACE	38
39	POWERLINK G3 (13) [E]				EX	30	3							SPACE	40
41								1						SPACE	42
	SUBTOTAL	7,078	4,673	5,033							3,920	4,180	4,250	SUBTOTAL	

TOTAL PHASE A - VA	10,998	LOAD		CONN. VA	DF	LOAD		CONN. VA	DF
AMPS	40	COOLING	[C]		1.00	REFRIG	[F]		1.00
TOTAL PHASE B - VA	8,853	HEATING	[H]		0	SIGNAGE	[S]		1.25
AMPS	32	LIGHTING	[L]	11,918	1.25	KITCHEN	[K]		1.00
TOTAL PHASE C - VA	9,283	RECEPTACLES	[R]		1.0/.5	EXISTING	[E]	17,216	1.00
AMPS	34	MOTORS	[M]		1.00	LRG MOTOR			1.25
TOTAL PNLBD - VA	29,134	SUPP HEAT	[U]		1.00	SHOW WND [W]			1.25
AMPS	35	MISC EQUIP	[Z]		1.00	LTG TRACK			1.00

TOTAL DEMAND	
	32,114 VA
	39 A

POWER-SWITCHING PNLBD: H2P2 (ETR)

BUS AMPS: 250A
MAIN SIZE/TYPE: MLO — MOUNTING: SURFACE
VOLTS/PHASE: 480Y/277V, 3PH, 4W — SERVES: LIGHTING
SECTION: 1 — LOCATION: ELEC ROOM 2

CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	C	DESCRIPTION	CKT NO.
1	STORE SIGN (13) [E]	1,000			EX	20	2	2	20	EX	750			PARKING LOT LTG #8 (13) [E]	2
3			1,000									750			4
5	PARKING LOT LTG #1 (13) [E]			940	EX	20	2	3	30	EX				TVSS (13) [E]	6
7		940													8
9	PARKING LOT LTG #2 (13) [E]		1,380		EX	20	2	1						SPACE	10
11				1,380				1						SPACE	12
13	PARKING LOT LTG #3 (13) [E]	1,290			EX	20	2	1						SPACE	14
15			1,290					1						SPACE	16
17	PARKING LOT LTG #4 (13) [E]			1,290	EX	20	2	1						SPACE	18
19		1,290						1						SPACE	20
21	PARKING LOT LTG #5 (13) [E]		1,890		EX	20	2	1						SPACE	22
23				1,890				1						SPACE	24
25	PARKING LOT LTG #6 (13) [E]	680			EX	20	2	1						SPACE	26
27			680					1						SPACE	28
29	PARKING LOT LTG #7 (13) [E]			510	EX	20	2	1						SPACE	30
31		510						1						SPACE	32
33	SPACE						1	1						SPACE	34
35	SPACE						1	1						SPACE	36
37	SPACE						1	1						SPACE	38
39	SPACE						1	1						SPACE	40
41	SPACE						1	1						SPACE	42
	SUBTOTAL	5,710	6,240	6,010							750	750		SUBTOTAL	

TOTAL PHASE A - VA	6,460	LOAD		CONN. VA	DF	LOAD		CONN. VA	DF
AMPS	23	COOLING	[C]		1.00	REFRIG	[F]		1.00
TOTAL PHASE B - VA	6,990	HEATING	[H]		0	SIGNAGE	[S]		1.25
AMPS	25	LIGHTING	[L]		1.25	KITCHEN	[K]		1.00
TOTAL PHASE C - VA	6,010	RECEPTACLES	[R]		1.0/.5	EXISTING	[E]	19,460	1.00
AMPS	22	MOTORS	[M]		1.00	LRG MOTOR			1.25
TOTAL PNLBD - VA	19,460	SUPP HEAT	[U]		1.00	SHOW WND [W]			1.25
AMPS	23	MISC EQUIP	[Z]		1.00	LTG TRACK			1.00

TOTAL DEMAND	
	19,460 VA
	23 A

PANELBOARD: H4B (ETR)

BUS AMPS: 800A
MAIN SIZE/TYPE: MLO — MOUNTING: SURFACE
VOLTS/PHASE: 480Y/277V, 3PH, 4W — SERVES: 480V DISTRIBUTION
SECTION: 1 — LOCATION: ELEC ROOM 4

CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	C	DESCRIPTION	CKT NO.
1		27,710									2,120				2
3	AHU 1 (13) [E]		27,710		EX	125	3	3	50	EX		480		PNLBD H4C (13)	4
5				27,710									912		6
7		140									10,280				8
9	SUB-METERING (13) [E]		140		EX	15	3	3	50	EX		10,280		B005L PAN WASHER (13) [E]	10
11				140									10,280		12
13		15,519						2	35	EX	6,000			D026C VAT BIB (13) [E]	14
15	TRANSFORMER DOMINOS (13)		15,519		EX	70	3					6,000		SHUNT-TRIP	16
17				15,519									11,920		18
19								3	60	EX	11,920			D026C FRYER #1 (13) [E] SHUNT-TRIP	20
21	SPACE						3					11,920			22
23													11,920		24
25								3	60	EX	11,920			D026C FRYER #2 (13) [E] SHUNT-TRIP	26
27	SPACE						3					11,920			28
29															30
31								3						SPACE	32
33	SPACE						3								34
35															36
37								3						SPACE	38
39	SPACE						3								40
41															42
43								3						SPACE	44
45	SPACE						3								46
47															48
49		27,444						3						SPACE	50
51	**PNLBD HPU (8)**		**24,611**			**225**	**3**								52
53				**24,681**											54
55	SPACE							1	3					SPACE	56
57	SPACE							1							58
59	DEDICATED SPACE							1	1					SPACE	60
61		90,783													62
63	TRANSFORMER T4D PNLBD L4B		96,503		EX	350	3	**3**	**100**					**SPARE (24)**	64
65				87,835											66
	SUBTOTAL	161,597	164,484	155,885							42,240	40,600	35,032	SUBTOTAL	

TOTAL PHASE A - VA	203,837	LOAD		CONN. VA	DF	LOAD		CONN. VA	DF
AMPS	736	COOLING	[C]	13,186	1.00	REFRIG	[F]	15,746	1.00
TOTAL PHASE B - VA	205,084	HEATING	[H]	0		SIGNAGE	[S]		1.25
AMPS	740	LIGHTING	[L]	3,343	1.25	KITCHEN	[K]	10,207	1.00
TOTAL PHASE C - VA	190,917	RECEPTACLES	[R]	900	1.0/.5	EXISTING	[E]	503,845	1.00
AMPS	689	MOTORS	[M]	2,380	1.00	LRG MTR: 3HP		3,963	1.25
TOTAL PNLBD - VA	599,837	SUPP HEAT	[U]	38,084	1.00	SHOW WND [W]			1.25
AMPS	721	MISC EQUIP	[Z]	8,185	1.00	LTG TRACK			1.00

TOTAL DEMAND	
	601,664 VA
	724 A

PANELBOARD: H4C (ETR)

BUS AMPS: 250A
MAIN SIZE/TYPE: MLO — MOUNTING: SURFACE
VOLTS/PHASE: 480Y/277V, 3PH, 4W — SERVES: LIGHTING
SECTION: 1 — LOCATION: ELEC ROOM 4

CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	C	DESCRIPTION	CKT NO.
1	**BAKERY/DELI/FRZR LTG (19) [LE]**	**2,120**			**12**	**20**	**1**	1						SPACE	2
3	PRODUCE LTG (13) [E]		480		EX	20	1	1						SPACE	4
5	**GR VESTIBULE LTG (19) [LE]**			**912**	**12**	**20**	**1**	1						SPACE	6
7	**SPARE (24)**					**20**	**1**	1						SPACE	8
9	**SPARE (24)**					**20**	**1**	1						SPACE	10
11	SPACE							1	1					SPACE	12
13	SPACE							1	1					SPACE	14
15	SPACE							1	1					SPACE	16
17	SPACE							1	1					SPACE	18
19	SPACE							1	1					SPACE	20
21	SPACE							1	1					SPACE	22
23	SPACE							1	1					SPACE	24
25	SPACE							1	1					SPACE	26
27	SPACE							1	1					SPACE	28
29	SPACE							1	1					SPACE	30
31	SPACE							1	1					SPACE	32
33	SPACE							1	1					SPACE	34
35	SPACE							1	1					SPACE	36
37	SPACE							1	1					SPACE	38
39	SPACE							1	1					SPACE	40
41	SPACE							1	1					SPACE	42
	SUBTOTAL	2,120	480	912										SUBTOTAL	

TOTAL PHASE A - VA	2,120	LOAD		CONN. VA	DF	LOAD		CONN. VA	DF
AMPS	8	COOLING	[C]		1.00	REFRIG	[F]		1.00
TOTAL PHASE B - VA	480	HEATING	[H]		0	SIGNAGE	[S]		1.25
AMPS	2	LIGHTING	[L]	1,772	1.25	KITCHEN	[K]		1.00
TOTAL PHASE C - VA	912	RECEPTACLES	[R]		1.0/.5	EXISTING	[E]	1,740	1.00
AMPS	3	MOTORS	[M]		1.00	LRG MOTOR			1.25
TOTAL PNLBD - VA	3,512	SUPP HEAT	[U]		1.00	SHOW WND [W]			1.25
AMPS	4	MISC EQUIP	[Z]		1.00	LTG TRACK			1.00

TOTAL DEMAND	
	3,955 VA
	5 A

PANELBOARD: HPU (NEW)

FED FROM: H4B — LINE-SIDE LUGS: MECHANICAL
BUS AMPS: 225A — AIC RATING: 14000; FULLY RATED — EQUIPMENT GROUND BUS
MAIN SIZE/TYPE: MLO — MOUNTING: SURFACE
VOLTS/PHASE: 480Y/277V, 3PH, 4W — SERVES: PICKUP
SECTION: 1 — LOCATION: PICKUP

CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	C	DESCRIPTION	CKT NO.
1	**TRANSFORMER TPU (8) ***	**13,553**				**125**	**3**	1	**20**	**12**	**1,033**			**PICKUP LTG [L]**	2
3	**PNLBD LPU**		**11,753**					1						SPACE	4
5				**11,822**				1						SPACE	6
7		**5,653**						1						SPACE	8
9	**RTU 33 [CM]**		**5,653**		**10**	**25**	**3**	1						SPACE	10
11				**5,653**				1						SPACE	12
13		**3,603**						1						SPACE	14
15	**HCR DOOR PICKUP CLR [U]**		**3,603**		**12**	**20**	**3**	1						SPACE	16
17				**3,603**				1						SPACE	18
19		**3,603**						1						SPACE	20
21	**HCR DOOR PICKUP FRZR [U]**		**3,603**		**12**	**20**	**3**	1						SPACE	22
23				**3,603**				1						SPACE	24
25	SPACE							1	1					SPACE	26
27	SPACE							1	1					SPACE	28
29	SPACE							1	1					SPACE	30
	SUBTOTAL	26,411	24,611	24,681							1,033			SUBTOTAL	

TOTAL PHASE A - VA	27,444	LOAD		CONN. VA	DF	LOAD		CONN. VA	DF
AMPS	99	COOLING	[C]	12,970	1.00	REFRIG	[F]	13,906	1.00
TOTAL PHASE B - VA	24,611	HEATING	[H]		0	SIGNAGE	[S]		1.25
AMPS	89	LIGHTING	[L]	1,033	1.25	KITCHEN	[K]		1.00
TOTAL PHASE C - VA	24,681	RECEPTACLES	[R]	900	1.0/.5	EXISTING	[E]		1.00
AMPS	89	MOTORS	[M]	2,380	1.00	LRG MTR: 3HP		3,963	1.25
TOTAL PNLBD - VA	76,737	SUPP HEAT	[U]	38,084	1.00	SHOW WND [W]			1.25
AMPS	92	MISC EQUIP	[Z]	3,501	1.00	LTG TRACK			1.00

TOTAL DEMAND	
	77,986 VA
	94 A

PANELBOARD NOTES
* PROVIDE 125A-3P SQUARE-D BREAKER MODEL #: EDB34125

PANELBOARD: L1D1 (ETR)

BUS AMPS: 400A
MAIN SIZE/TYPE: 250A MCB — MOUNTING: SURFACE
VOLTS/PHASE: 208Y/120V, 3PH, 4W — SERVES: GENERAL POWER
SECTION: 1 — LOCATION: ELEC ROOM 1

CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	C	DESCRIPTION	CKT NO.
1	WALKIE-STACKERS (13) [E]	360			EX	20	1	1	**20**	**10**	**1,360**			**COFFEE MAKER (6,19) [Z]**	2
3	DATA CABINET (13) [E]		180		EX	15	1	1	**20**	**10**		**1,520**		**MICROWAVE #1 (6,19) [Z]**	4
5	RECEIVING RCPTS #1 (13) [E]			1,080	EX	20	1	1	**20**	**10**			**1,520**	**MICROWAVE #2 (6,19) [Z]**	6
7	RECEIVING RCPTS #2 (13) [E]	720			EX	20	1	1	**20**	**12**	**1,090**			**REFRIGERATOR #1 (19) [F]**	8
9	RECEIVING RCPTS #3 (13) [E]		1,540		EX	20	1	1	**20**	**12**		**1,090**		**REFRIGERATOR #2 (19) [F]**	10
11	DOCK LEVELER #1 (13) [E]			1,520	EX	20	1	1	**20**	**12**			**310**	**FREEZER (19) [F]**	12
13	DOCK LEVELER #2 (13) [E]	1,520			EX	20	1	1	**20**	**10**	**1,520**			**MICROWAVE #3 (6,19) [Z]**	14
15	BIKE ASSEMBLY #1 (13) [E]		360		EX	20	1	1	**20**	**12**		**420**		**BR RCPT/RECIRC/INSCT (19) [ZE]**	16
17	BIKE ASSEMBLY #2 (13) [E]			360	EX	20	1	1	20	EX			1,440	VENDING MACHINE #1 (13) [E]	18
19	MOVABLE RACKS (13) [E]	1,230			EX	20	1	1	20	EX	1,440			VENDING MACHINE #2 (13) [E]	20
21	CLAIMS (13) [E]		1,440		EX	20	1	1	20	EX		1,440		VENDING MACHINE #3 (13) [E]	22
23	FLOOR SCRUBBER #1 (13) [E]			1,200	EX	20	1	1	20	EX			1,440	VENDING MACHINE #4 (13) [E]	24
25	FLOOR SCRUBBER #2 (13) [E]	1,200			EX	20	1	1	20	EX	1,440			VENDING MACHINE #5 (13) [E]	26
27	FLOOR SCRUBBER #3 (13) [E]		1,200		EX	20	1	1	20	EX		1,440		VENDING MACHINE #6 (13) [E]	28
29	FLOOR SCRUBBER #4 (13) [E]			1,200	EX	20	1	1	20	EX			1,440	VENDING MACHINE #7 (13) [E]	30
31	TELXON CHARGER (13) [E]	600			EX	20	1	**1**	**20**	**12**	**540**			**TRAINING DESK RCPTS #3 (19) [R]**	32
33	PAYSTUB KIOSK (13) [E]		180		EX	20	1	1	20	EX		1,080		MANAGER'S RCPTS (13) [E]	34
35	**SOUND SYSTEM (6,19) [Z]**			**1,000**	**10**	**20**	**1**	1	20	EX			1,080	VENDING MACHINE #8 (13) [E]	36
37	**APPAREL WORKSTN (19) [R]**	**360**			**12**	**20**	**1**	1	**20**	EX	**540**			**ICE WATER DISPENSER (19) [E]**	38
39	**BR ISL PLUGMOLD (6,19) [R]**		**1,920**		**10**	**20**	**1**	1						SPACE	40
41	**MOD. CABINET RCPTS (19) [R]**			**360**	**12**	**20**	**1**	1						SPACE	42
	SECTION: 2														
43	WASTE OIL TANK (13) [E]	1,820			EX	20	1	**1**	**20**	**12**	**966**			**TRAINING RCPTS/SCNT (19) [LRZE]**	44
45	OGP AIR CURTAIN (13) [E]		1,750		EX	20	1	**1**	**20**	**12**		**540**		**TRAINING DESK RCPTS #1 (19) [R]**	46
47	UH (RECEIVING) (13) [E]			920	EX	15	1	**1**	**20**	**12**			**540**	**TRAINING DESK RCPTS #2 (19) [R]**	48
49	DATA CABINET (13) [E]	180			EX	15	1	1	20	EX	720			INVOICING RCPTS #1 (13) [E]	50
51	BREAKROOM TV (13) [E]		130		EX	20	1	1	20	EX		900		INVOICING RCPTS #2 (13) [E]	52
53	**BR MOD TECH BAR #1 (19) [R]**			**540**	**12**	**20**	**1**	1	20	EX			1,180	EF (REAR TOILETS) (13) [E]	54
55	**BR MOD TECH BAR #2 (19) [R]**	**900**			**12**	**20**	**1**	1	20	EX	1,500			HAND DRYER #1 (13) [E]	56
57	ROLLSEAL DOOR #1 (13) [E]		1,200		EX	20	1	1	20	EX		1,500		HAND DRYER #2 (13) [E]	58
59	ROLLSEAL DOOR #2 (13) [E]			1,200	EX	20	1	1	20	EX			1,500	HAND DRYER #3 (13) [E]	60
61	OGP DOOR / RCPTS (13) [E]	540			EX	20	1	1	20	EX	1,500			HAND DRYER #4 (13) [E]	62
63	MEAT COOLER HTRS (13) [E]		180		EX	20	1	1	20	EX		1,500		HAND DRYER #5 (13) [E]	64
65	GROCERY FRZR HTRS (13) [E]			450	EX	20	1	1	20	EX			720	EWC'S (13) [E]	66
67	ICE CREAM FRZR HTRS (13) [E]	310			EX	20	1	1	20	EX	500			HOT BOX (13) [E]	68
69	WH (GROC) / RECIRC PUMP (13) [E]		610		EX	20	1	1	20	EX		360		MANAGER RCPTS (13) [E]	70
71	RECIRC PUMP (13) [E]			1,660	EX	20	1	1						SPACE	72
73	DATA LOGGER (13) [E]	180			EX	15	1	1						SPACE	74
75	EDC1 RCPTS (13) [E]		720		EX	20	1	1	20	EX			180	SPACE	76
77	TELEPHONE BOARD (13) [E]			1,260	EX	20	1	1	20	EX			180	UPC / UPS RCPTS (13) [E]	78
79	ALARM BOARD #1 (13) [E]	1,600			EX	20	1	1	20	EX	1,080			JIB CRANE (13) [E]	80
81	ALARM BOARD #2 (13) [E]		1,580		EX	20	1	1	20	EX		540		RTU 25,30,31 RCPTS (13) [E]	82
83	ALARM BOARD #3 (13) [E]			1,580	EX	20	1	1	20	EX			720	RTU 26-29 RCPTS (13) [E]	84
	SUBTOTAL	11,520	12,990	14,330							14,296

PANELBOARD: L2U (ETR)

BUS AMPS: 100A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 120/240V, 1PH, 3W
SECTION: 1

MOUNTING: SURFACE
SERVES: CRITICAL POWER
LOCATION: ELEC ROOM 2

CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	VOLTAMPS/PHASE B	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	VOLTAMPS/PHASE B	DESCRIPTION	CKT NO.
1	BUSWAY BL2U (13)		1,980	EX	30	2	1	20	12	660		CUST. SERV C/W RCPTS (19) [Z]	2
3							1	20	8		1,500	PHARM FRONT CHECKOUT IG (6,19) [Z]	4
5	DATA SYSTEMS RACK #1 (13) [E]	180		EX	15	1	1	15	EX	180		DATA SYSTEMS RACK #3 (13) [E]	6
7	DATA SYSTEMS RACK #2 (13) [E]		180	EX	15	1	1	20	EX		1,200	CASH RECYCLER (13) [E]	8
9	**SPARE (24)**				**15**	**1**	1					SPACE	10
11							1					SPACE	12
13	**SPARE (24)**				**20**	**2**						SPACE	14
15	SPACE					1	1					SPACE	16
17	SPACE					1	1					SPACE	18
19	SPACE					1	1					SPACE	20
21	SPACE					1	1					SPACE	22
23	SPACE					1	1					SPACE	24
25	SPACE					1	1					SPACE	26
27	SPACE					1	1					SPACE	28
29	SPACE					1	1					SPACE	30
	SUBTOTAL	180	2,160							840	2,700	SUBTOTAL	

TOTAL PHASE A - VA	1,020	LOAD		CONN. VA	DF
AMPS	9	COOLING	[C]		1.00
TOTAL PHASE B - VA	4,860	HEATING	[H]		0
AMPS	41	LIGHTING	[L]		1.25
TOTAL PNLBD - VA	5,880	RECEPTACLES	[R]		1.0/.5
AMPS	25	MOTORS	[M]		1.00
		SUPP HEAT	[U]		1.00
		MISC EQUIP	[Z]	4,140	1.00

LOAD		CONN. VA	DF	TOTAL DEMAND	
REFRIG	[F]		1.00		
SIGNAGE	[S]		1.25		
KITCHEN	[K]		1.00		
EXISTING	[E]	1,740	1.00		
LRG MOTOR			1.25	5,880 VA	
SHOW WND [W]			1.25		
LTG TRACK			1.00	25 A	

PANELBOARD: L3D (ETR)

BUS AMPS: 225A
MAIN SIZE/TYPE: 150A MCB
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

MOUNTING: SURFACE
SERVES: AUTO CARE
LOCATION: ACC MECHANICAL

CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	VOLTAMPS/PHASE B	VOLTAMPS/PHASE C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	VOLTAMPS/PHASE B	VOLTAMPS/PHASE C	DESCRIPTION	CKT NO.
1	WH - TLE (13) [E]	2,000			EX	25	1	1	20	EX	10			CONT-KCTOR CTRL (13) [E]	2
3	HAND DRYER (13) [E]		1,140		EX	20	1	1	20	EX		264		ACC CASH WRAP (19) [Z]	4
5	AIR DRYER / RCPT (13) [E]			1,340	EX	20	1	1	20	EX			720	DOOR LOCK CTRL (19) [Z]	6
7	EF (TLT TOILET) / MECH (13) [E]	250			EX	20	1	1	20	12	720			ACC HRDLINE SRV CTR #1 (19) [Z]	8
9	DOOR OPERATOR (13) [E]		600		EX	20	1	1	20	12		720		ACC HRDLINE SRV CTR #2 (19) [Z]	10
11	RECEPTACLES (13) [E]			720	EX	20	1	1	20	12			360	ACC DIG. DISPLAYS (19) [Z]	12
13	DATA SYSTMES RACK (13) [E]	180			EX	15	1	1	20	12	260			ACC DIG. DISPLAYS (19) [Z]	14
15	EAS (13) [E]		360		EX	20	1	1	20	EX		480		EWC (13) [E]	16
17	TIRE BALANCER (13) [E]			830	EX	20	2	1	20	EX			540	TIRE LOOKUP #1 (13) [E]	18
19		830						1	20	EX	540			TIRE LOOKUP #2 (13) [E]	20
21	ZIP PIT LIFT #1 / RCPTS (13) [E]		1,380		EX	20	2	1	20	EX		1,180		VACUUM #1 (13) [E]	22
23				1,380				1	20	EX			1,920	VACUUM #2 (13) [E]	24
25	ZIP PIT LIFT #2 / RCPTS (13) [E]	1,380			EX	20	2	1	20	EX	1,920			VACUUM #3 (13) [E]	26
27			1,380					1	20	EX		550		PIT ALARM PNL/EF/PIT LTS (13) [E]	28
29	ZIP PIT LIFT #3 / RCPTS (13) [E]			1,380	EX	20	2	1	20	EX			1,440	VENTILATION FANS (13) [E]	30
31		1,380						1						SPACE	32
33	TIRE CHANGER #1 (13) [E]		1,320		EX	20	1	1						SPACE	34
35	TIRE CHANGER #2 (13) [E]			1,320	EX	20	1	1						SPACE	36
37	**SPACE (11)**							1	1					**SPACE (11)**	38
39	**SPACE (11)**							1	1	15	EX	920		TLE UNIT HEATER #1 (13) [E]	40
41	**SPACE (11)**							1	1	15	EX		920	TLE UNIT HEATER #2 (13) [E]	42
	SUBTOTAL	6,020	6,180	6,970								3,450	4,114	5,340	SUBTOTAL

TOTAL PHASE A - VA	9,470	LOAD		CONN. VA	DF
AMPS	79	COOLING	[C]		1.00
TOTAL PHASE B - VA	10,294	HEATING	[H]		0
AMPS	86	LIGHTING	[L]		1.25
TOTAL PHASE C - VA	12,310	RECEPTACLES	[R]		1.0/.5
AMPS	103	MOTORS	[M]		1.00
TOTAL PNLBD - VA	32,074	SUPP HEAT	[U]		1.00
AMPS	89	MISC EQUIP	[Z]	1.00	1.00

LOAD		CONN. VA	DF	TOTAL DEMAND	
REFRIG	[F]		1.00		
SIGNAGE	[S]		1.25		
KITCHEN	[K]		1.00		
EXISTING	[E]	31,490	1.00		
LRG MOTOR			1.25	33,454 VA	
SHOW WND [W]			1.25		
LTG TRACK			1.00	93 A	

PANELBOARD: L4D1 (ETR)

BUS AMPS: 400A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

MOUNTING: SURFACE
SERVES: DELI EQUIP
LOCATION: ELEC ROOM 4

CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	VOLTAMPS/PHASE B	VOLTAMPS/PHASE C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	VOLTAMPS/PHASE B	VOLTAMPS/PHASE C	DESCRIPTION	CKT NO.
1	**SCALE / DELI RCPT #1 [E]**	**540**			**EX**	**20**	**1**	**1**	**20**	**EX**	**1,660**			**REMOTE ALARM BOARD [E]**	2
3	**LEAK DETECTION [E]**		**180**		**EX**	**20**	**1**	**1**	**20**	**EX**		**180**		**EDC4 RCPT [E]**	4
5	**SCALE / DELI RCPT #2 [E]**			**1,080**	**EX**	**20**	**1**	**1**	**20**	**EX**			**360**	**R/O WATER FILTRATION #1 [E]**	6
7	**WRAPPER [E]**	**960**			**EX**	**20**	**1**	**1**	**20**	**EX**	**180**			**R/O WATER FILTRATION #2 [E]**	8
9	**BUDDY CART SLICERS [K]**		**840**		**EX**	**20**	**1**	**1**	**20**	**EX**		**900**		**AHU1,RTU1,2,14,18 RCPTS [E]**	10
11	**WALL SLICER #1 [E]**			**420**	**EX**	**20**	**1**	**1**	**20**	**EX**			**360**	**RACKS A,B RCPTS [E]**	12
13	**WALL SLICER #2 [E]**	**420**			**EX**	**20**	**1**	**1**	**20**	**EX**	**180**			**PRODUCE MISTING [E]**	14
15	**POULTRY COOLER HTR [E]**		**30**		**EX**	**20**	**1**	**1**	**20**	**EX**		**180**		**EDC4 BAS BOARD [E]**	16
17	**DELI FREEZER HTR [E]**			**220**	**EX**	**20**	**1**	**1**						**SPACE (11)**	18
19	**BAKERY FREEZER HTR [E]**	**280**			**EX**	**20**	**1**	**1**	**20**	**10**	**500**			**PHARMACY DRIVE THRU (2,6) [Z]**	20
21	**EFH1 / EFH2 [E]**		**2,530**		**EX**	**30**	**1**	**1**	**20**	**EX**			**360**	**PRICE VERIFIERS [E]**	22
23	**EH1 & EH2 LTS / CTRLS [E]**			**1,120**	**EX**	**15**	**1**	**1**	**20**	**EX**			**1,440**	**IDF CABINET [E]**	24
25	**MICROWAVE [E]**	**1,580**			**EX**	**20**	**1**	**1**						**SPACE (11)**	26
27	**SPACE (11)**						**1**	**2**	**30**	**EX**		**2,240**		**RH0123 SERVICE CASE [E]**	28
29	**SPACE (11)**						**1**						**2,240**		30
31	**DELI/BAKERY DISPLAYS [Z]**	**780**			**12**	**20**	**1**				**3,122**				32
33	**SPACE (11)**						**1**	**3**	**40**	**8**		**3,122**		**RH0135 - 8' HOT CASE (2) [K]**	34
35	**SPACE (11)**						**1**						**3,122**		36
37	**EMC CARTS [E]**	**500**			**EX**	**15**	**1**				**1,200**				38
39	**EXISTING LOAD (22) [E]**		**1,664**		**EX**	**20**	**2**	**3**	**20**	**EX**		**1,200**		**RH0122 SELF MULTI DECK [E]**	40
41				**1,664**									**1,200**		42
	SECTION: 2														
43	**B20/B21/B28/B04/ RCPTS [E]**	**720**			**EX**	**20**	**1**				**3,720**				44
45	**SPACE (11)**						**1**	**3**	**40**	**EX**		**3,720**		**D059F ROTISSERIE #1 [E]**	46
47	**BAKERY PREP RCPTS [E]**			**920**	**EX**	**20**	**1**						**3,720**		48
49	**B049 DONUT MACHINE [E]**	**3,430**			**EX**	**50**	**2**	**1**						**SHUNT TRIP**	50
51			**3,430**									**3,720**			52
53	**B033 ICING TABLE [E]**			**780**	**EX**	**15**	**2**	**3**	**40**	**EX**			**3,720**	**D059F ROTISSERIE #2 [E]**	54
55		**780**									**3,720**				56
57	**B007B BREAD SLICER [E]**		**840**		**EX**	**20**	**1**	**1**						**SHUNT TRIP**	58
59				**530**									**3,720**		60
61	**B065GA RACK OVEN [E]**	**530**			**EX**	**20**	**3**	**3**	**40**	**EX**	**3,720**			**D059F ROTISSERIE #3 [E]**	62
63			**530**									**3,720**			64
65	**B065A OVEN CTRLS [E]**			**1,800**	**EX**	**20**	**1**	**1**						**SHUNT TRIP**	66
67	**P004 SCALE / RCPTS / MGH [E]**	**720**			**EX**	**20**	**1**				**3,720**				68
69	**P005 WRAPPER [E]**		**960**		**EX**	**20**	**1**	**3**	**40**	**EX**		**3,720**		**D059F ROTISSERIE #4 [E]**	70
71	**ROLLSEAL DOOR [E]**			**1,200**	**EX**	**20**	**1**						**3,720**		72
73	**SPACE (11)**						**1**	**1**						**SHUNT TRIP**	74
75	**SPACE (11)**						**1**	**1**						SPACE	76
77	**SPACE (11)**						**1**	**1**						SPACE	78
79		**2,162**						**1**						SPACE	80
81	**BLAST CHILLER [E]**		**2,162**		**EX**	**30**	**3**	**1**						SPACE	82
83				**2,162**				**1**						SPACE	84
	SUBTOTAL	13,402	13,166	11,896							21,722	23,062	23,602	SUBTOTAL	

TOTAL PHASE A - VA	35,124	LOAD		CONN. VA	DF
AMPS	293	COOLING	[C]		1.00
TOTAL PHASE B - VA	36,228	HEATING	[H]		0
AMPS	302	LIGHTING	[L]		1.25
TOTAL PHASE C - VA	35,498	RECEPTACLES	[R]		1.0/.5
AMPS	296	MOTORS	[M]		1.00
TOTAL PNLBD - VA	106,850	SUPP HEAT	[U]		1.00
AMPS	297	MISC EQUIP	[Z]	1,280	1.00

LOAD		CONN. VA	DF	TOTAL DEMAND	
REFRIG	[F]		1.00		
SIGNAGE	[S]		1.25		
KITCHEN	[K]	10,207	1.00		
EXISTING	[E]	95,363	1.00		
LRG MOTOR			1.25	106,850 VA	
SHOW WND [W]			1.25		
LTG TRACK			1.00	297 A	

PANELBOARD NOTES
REPLACE ALL BREAKERS IN PANELBOARD TO ACHIEVE AN INTERRUPT RATING OF 18K AIC OR HIGHER. NEW BREAKERS SHALL BE THE SAME SIZE (AMPS AND NUMBER OF POLES) AND SHALL MATCH THE PANELBOARD MANUFACTURER.

PANELBOARD: L4D2 (ETR)

BUS AMPS: 225A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

MOUNTING: SURFACE
SERVES: GENERAL POWER
LOCATION: ELEC ROOM 4

CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	VOLTAMPS/PHASE B	VOLTAMPS/PHASE C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	VOLTAMPS/PHASE B	VOLTAMPS/PHASE C	DESCRIPTION	CKT NO.
1	**MOTORIZED CARTS / INSECT [E]**	**900**			**EX**	**20**	**1**	**1**						**SPACE (11)**	2
3	**EAS [E]**		**540**		**EX**	**20**	**1**	**1**						**SPACE (11)**	4
5	**GR AMUSEMENT #1 [E]**			**1,440**	**EX**	**20**	**1**	**1**	**20**	**EX**				**SPACE (11)**	6
7	**GR AMUSEMENT #2 [E]**	**1,440**			**EX**	**20**	**1**	**1**						**SPACE (11)**	8
9	**PET TAGS [E]**		**1,440**		**EX**	**20**	**1**	**1**	**20**	**EX**		**1,440**		**ICE MERCHANDISER [E]**	10
11	**REDBOX [E]**			**730**	**EX**	**20**	**1**	**1**						**SPACE (11)**	12
13	**DOOR OPERATOR #1 [E]**	**600**			**EX**	**20**	**1**	**1**	**20**	**EX**	**600**			**CULLIGAN WATER [E]**	14
15	**DOOR OPERATOR #2 [E]**		**600**		**EX**	**20**	**1**	**1**	**20**	**12**		**1,560**		**GR POE RCPT [Z]**	16
17	**DOOR OPERATOR #3 [E]**			**600**	**EX**	**20**	**1**	**1**						SPACE	18
19	**DOOR OPERATOR #4 [E]**	**600**			**EX**	**20**	**1**	**1**						SPACE	20
21	**VENDING MACHINE #1 [E]**		**1,440**		**EX**	**20**	**1**	**1**						SPACE	22
23	**VENDING MACHINE #2 [E]**			**1,440**	**EX**	**20**	**1**	**1**						SPACE	24
25	**VENDING MACHINE #3 [E]**	**1,440**			**EX**	**20**	**1**	**1**						SPACE	26
27	**EXTERIOR RCPT [E]**		**180**		**EX**	**20**	**1**	**1**						SPACE	28
29	**GR CART RADIANT HTR [E]**			**400**	**EX**	**20**	**1**	**1**						SPACE	30
31	**VUH1 (GR VESTIBULE) [E]**	**460**			**EX**	**15**	**1**	**1**						SPACE	32
33	**32A JEWELRY (6) [Z]**		**644**		**10**	**20**	**1**	**1**						SPACE	34
35	**CLR - MEDCH (6) [F]**			**1,296**	**8**	**20**	**1**	**1**						SPACE	36
37	**GR MART CARTS [Z]**	**1,200**			**12**	**20**	**1**	**1**						SPACE	38
39	**GR CART AIR CURTAIN #1 [E]**		**1,560**		**EX**	**20**	**1**	**1**						SPACE	40
41	**GR CART AIR CURTAIN #2 [E]**			**1,560**	**EX**	**20**	**1**	**1**						SPACE	42
	SUBTOTAL	6,640	6,404	7,466							600	3,000		SUBTOTAL	

TOTAL PHASE A - VA	7,240	LOAD		CONN. VA	DF
AMPS	60	COOLING	[C]		1.00
TOTAL PHASE B - VA	6,404	HEATING	[H]		0
AMPS	78	LIGHTING	[L]		1.25
TOTAL PHASE C - VA	7,466	RECEPTACLES	[R]		1.0/.5
AMPS	62	MOTORS	[M]		1.00
TOTAL PNLBD - VA	24,110	SUPP HEAT	[U]		1.00
AMPS	67	MISC EQUIP	[Z]	3,404	1.00

LOAD		CONN. VA	DF	TOTAL DEMAND	
REFRIG	[F]	1,296	1.00		
SIGNAGE	[S]		1.25		
KITCHEN	[K]		1.00		
EXISTING	[E]	19,410	1.00		
LRG MOTOR			1.25	TOTAL DEMAND	
SHOW WND [W]			1.25	24,110 VA	
LTG TRACK			1.00	67 A	

PANELBOARD NOTES
REPLACE ALL BREAKERS IN PANELBOARD TO ACHIEVE AN INTERRUPT RATING OF 18K AIC OR HIGHER. NEW BREAKERS SHALL BE THE SAME SIZE (AMPS AND NUMBER OF POLES) AND SHALL MATCH THE PANELBOARD MANUFACTURER.

PANELBOARD: L4R1 (ETR)

BUS AMPS: 225A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

MOUNTING: SURFACE
SERVES: REFRIG CASES
LOCATION: ELEC ROOM 4

CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	VOLTAMPS/PHASE B	VOLTAMPS/PHASE C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	VOLTAMPS/PHASE B	VOLTAMPS/PHASE C	DESCRIPTION	CKT NO.
1	A01 CASE FANS & A/S HTRS (13) [E]	310			EX	20	1	1	20	EX	840			AS02 CASE FANS & LIGHTS (13) [E]	2
3	A02 CASE FANS & A/S HTRS (13) [E]		180		EX	20	1	1				840		AS02 CASE FANS & LIGHTS (13) [E]	4
5	A06 CASE FANS & LIGHTS (13) [E]			310	EX	20	1	1	20	EX			800	AS03 CASE FANS/A/S HTRS (13) [E]	6
7	A07 CASE FANS & A/S HTRS (13) [E]	180			EX	20	1	1	20	EX	180			AS04 CASE FANS/A/S HTRS (13) [E]	8
9	A08 CASE FANS & A/S HTRS (13) [E]		310		EX	20	1	1	20	EX		440		AS05 COIL FANS/BAS CTRL (13) [E]	10
11	A09 CASE FANS & A/S HTRS (13) [E]			180	EX	20	1	1	20	EX			1,630	AS06 COIL FANS/BAS CTRL (13) [E]	12
13	A10 CASE FANS & LIGHTS (13) [E]	1,320			EX	20	1	1	20	EX	610			AS07 CASE FANS/A/S HTRS (13) [E]	14
15	A10 CASE A/S HTRS (13) [E]		1,610		EX	20	1	1	20	EX		910		AS08 CASE FANS & LIGHTS (13) [E]	16
17	A11 CASE FANS & LIGHTS (13) [E]			1,100	EX	20	1	1	20	EX			1,080	AS08 CASE FANS & LIGHTS (13) [E]	18
19	A11 CASE A/S HTRS (13) [E]	1,330			EX	20	1	1	20	EX	290			AS10 CASE FANS & LIGHTS (13) [E]	20
21	A12 CASE FANS & LIGHTS (13) [E]		150		EX	20	1	1	20	EX		1,820		AS09 CASE FANS & LIGHTS (13) [E]	22
23	A12 CASE A/S HTRS (13) [E]			190	EX	20	1	1	20	EX			840	AS11 CASE FANS & LIGHTS (13) [E]	24
25	DAIRY CLR DR LTS (13) [E]	640			EX	20	1	1	20	EX	230			AS12 COIL FANS/BAS CTRL (13) [E]	26
27	DAIRY CLR DR HTRS (13) [E]		1,210		EX	20	1	1	20	EX		650		AS13 CASE FANS & LIGHTS (13) [E]	28
29	PEPSI BOX #1 (13) [E]			500	EX	20	1	1	**20**	**12**			**338**	**AS14 CASE FANS & LTS (19) [LC]**	30
31	PEPSI BOX #2 (13) [E]	500			EX	20	1	1	20	EX	230			AS15 COIL FANS/BAS CTRL (13) [E]	32
33	PEPSI BOX #3 (13) [E]		500		EX	20	1	1	20	EX		670		AS17 CASE FANS & LIGHTS (13) [E]	34
35	PEPSI BOX #4 (13) [E]			500	EX	20	1	1	20	EX			670	AS18 CASE FANS & LIGHTS (13) [E]	36
37	A03 BAS CONTROLLER (13) [E]	10			EX	20	1	1	20	EX	360			AS14 CASE RCPTS (13) [E]	38
39	A04 / A05 BAS CNTRLLR (13) [E]		20		EX	20	1	1	20	EX		10		AS16 BAS CONTROLLER (13) [E]	40
41	G3 PSP POWER SUPPLY (13) [E]			180	EX	20	1	1	20	EX			10	AS01 BAS CONTROLLER (13) [E]	42
	SUBTOTAL	4,290	3,980	2,960							2,740	5,140	5,368	SUBTOTAL	

TOTAL PHASE A - VA	7,030	LOAD		CONN. VA	DF
AMPS	59	COOLING	[C]	216	1.00
TOTAL PHASE B - VA	9,120	HEATING	[H]		0
AMPS	76	LIGHTING	[L]	122	1.25
TOTAL PHASE C - VA	8,328	RECEPTACLES	[R]		1.0/.5
AMPS	69	MOTORS	[M]		1.00
TOTAL PNLBD - VA	24,478	SUPP HEAT	[U]		1.00
AMPS	68	MISC EQUIP	[Z]		1.00

LOAD		CONN. VA	DF	TOTAL DEMAND	
REFRIG	[F]		1.00		
SIGNAGE	[S]		1.25		
KITCHEN	[K]		1.00		
EXISTING	[E]	24,640	1.00		
LRG MOTOR			1.25	TOTAL DEMAND	
SHOW WND [W]			1.25	25,009 VA	
LTG TRACK			1.00	69 A	

PANELBOARD: L4R2 (ETR)

BUS AMPS: 225A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

MOUNTING: SURFACE
SERVES: REFRIG CASES
LOCATION: ELEC ROOM 4

CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	VOLTAMPS/PHASE B	VOLTAMPS/PHASE C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	VOLTAMPS/PHASE B	VOLTAMPS/PHASE C	DESCRIPTION	CKT NO.
1	**B01 CASE A/S HTRS [E]**	**1,690**			**EX**	**20**	**1**	**1**	**20**	**EX**	**1,670**			**BS01 CASE FANS & LIGHTS [E]**	2
3	**B01 CASE FANS & LIGHTS [E]**		**1,400**		**EX**	**20**	**1**	**1**	**20**	**EX**		**670**		**BS02 CASE FANS & LIGHTS [E]**	4
5	**B02 CASE A/S HTRS [E]**			**1,520**	**EX**	**20**	**1**	**1**	**20**	**EX**			**1,500**	**BS03 CASE FANS & LIGHTS [E]**	6
7	**B02 CASE FANS & LIGHTS [E]**	**1,250**			**EX**	**20**	**1**	**1**	**20**	**EX**	**1,250**			**BS04 CASE FANS & LIGHTS [E]**	8
9	**B03 CASE A/S HTRS [E]**		**1,690**		**EX**	**20**	**1**	**1**	**20**	**EX**		**1,010**		**BS05 CASE FANS & LIGHTS [E]**	10
11	**B03 CASE FANS & LIGHTS [E]**			**1,400**	**EX**	**20**	**1**	**1**	**20**	**EX**			**1,190**	**BS06 CASE FANS & LIGHTS [E]**	12
13	**B04 CASE A/S HTRS [E]**	**1,520**			**EX**	**20**	**1**	**1**	**20**	**EX**	**990**			**BS07 CASE FANS & LIGHTS [E]**	14
15	**B04 CASE FANS & LIGHTS [E]**		**1,250**		**EX**	**20**	**1**	**1**	**20**	**EX**		**1,050**		**BS08 CASE FANS & LIGHTS [E]**	16
17	**B05 CASE A/S HTRS [E]**			**640**	**EX**	**20**	**1**	**1**	**20**	**12**			**83**	**AS22 CASE FANS & LTS [F]**	18
19	**B05 CASE FANS & LIGHTS [E]**	**510**			**EX**	**20**	**1**	**1**	**20**	**12**	**888**			**AS21 GRAB'N'GO CASES [LF]**	20
21	**B06 CASE FANS & LIGHTS [E]**		**1,030**		**EX**	**20**	**1**	**1**	**20**	**EX**		**990**		**BS11 CASE FANS & LIGHTS [E]**	22
23	**B06 CASE A/S HTRS [E]**			**1,270**	**EX**	**20**	**1**	**1**	**20**	**EX**			**920**	**BS13 CASE FANS & LIGHTS [E]**	24
25	**B07 CASE FANS & LIGHTS [E]**	**1,180**			**EX**	**20**	**1**	**1**	**20**	**EX**	**440**			**BS12 COIL FANS & BAS CTRL [E]**	26
27	**B07 CASE A/S HTRS [E]**		**1,440**		**EX**	**20**	**1**	**1**	**20**	**EX**		**670**		**BS14 CASE FANS & LIGHTS [E]**	28
29	**B08 CASE A/S HTRS [E]**			**1,440**	**EX**	**20**	**1**	**1**						**SPACE (11)**	30
31	**B08 CASE FANS & LIGHTS [E]**	**1,180**			**EX**	**20**	**1**	**1**						**SPACE (11)**	32
33	**B09 CASE FANS & LIGHTS [E]**		**1,030**		**EX**	**20**	**1**	**1**						**SPACE (11)**	34
35	**B09 CASE A/S HTRS [E]**			**1,270**	**EX**	**20**	**1**	**1**						**SPACE (11)**	36
37	SPACE						1	1						SPACE	38
39	**B10 BAS CONTROLLER [E]**		**10**		**EX**	**20**	**1**	**1**	**20**	**EX**		**500**		**PEPSI BOX #1 [E]**	40
41	**B11 BAS CONTROLLER [E]**			**10**	**EX**	**20**	**1**	**1**	**20**	**EX**			**500**	**PEPSI BOX #2 [E]**	42
	SUBTOTAL	7,330	7,850	7,550							5,238	4,890	4,193	SUBTOTAL	

TOTAL PHASE A - VA	12,568	LOAD		CONN. VA	DF
AMPS	105	COOLING	[C]		1.00
TOTAL PHASE B - VA	12,740	HEATING	[H]		0
AMPS	106	LIGHTING	[L]	384	1.25
TOTAL PHASE C - VA	11,743	RECEPTACLES	[R]		1.0/.5
AMPS	98	MOTORS	[M]		1.00
TOTAL PNLBD - VA	37,051	SUPP HEAT	[U]		1.00
AMPS	103	MISC EQUIP	[Z]		1.00

LOAD		CONN. VA	DF	TOTAL DEMAND	
REFRIG	[F]	587	1.00		
SIGNAGE	[S]		1.25		
KITCHEN	[K]		1.00		
EXISTING	[E]	36,080	1.00		
LRG MOTOR			1.25	TOTAL DEMAND	
SHOW WND [W]			1.25	37,147 VA	
LTG TRACK			1.00	103 A	

PANELBOARD NOTES
REPLACE ALL BREAKERS IN PANELBOARD TO ACHIEVE AN INTERRUPT RATING OF 18K AIC OR HIGHER. NEW BREAKERS SHALL BE THE SAME SIZE (AMPS AND NUMBER OF POLES) AND SHALL MATCH THE PANELBOARD MANUFACTURER.

PANELBOARD: LPU (NEW)

BUS AMPS: 225A
MAIN SIZE/TYPE: 225A MCB*
VOLTS/PHASE: 208Y/120

BUSWAY: BL1A (ETR)

BUS AMPS: 100A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

MOUNTING: SURFACE
SERVES: ELECTRONICS
LOCATION: ELECTRONICS

CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	C	DESCRIPTION	CKT NO.
1	72M TV WALL #1 (13) [E]	960			EX	20	1	1	20	EX	960			72M TV WALL #12 (13) [E]	2
3	72M TV WALL #2 (13) [E]		960		EX	20	1	1	20	EX		960		72M TV WALL #13 (13) [E]	4
5	**72M TV WALL #3 (19) [Z]**			**480**	**12**	**20**	1	1	20					SPARE (13)	6
7	SPARE (13)					20	1	1	**20**	**12**	**960**			**72M TV WALL #14 (19) [Z]**	8
9	72M TV WALL #4 (13) [E]		960		EX	20	1	1	20	EX		960		72M TV WALL #15 (13) [E]	10
11	72M TV WALL #5 (13) [E]			960	EX	20	1	1	20	EX			960	72M TV WALL #16 (13) [E]	12
13	72M TV WALL #6 (13) [E]	960			EX	20	1	1	**20**	**12**	**720**			**ENG GONDOLA #1 (19) [R]**	14
15	72M TV WALL #7 (13) [E]		960		EX	20	1	1	**20**	**12**		**720**		**ENG GONDOLA #2 (19) [R]**	16
17	**11A HARDWARE #1 (19) [R]**			**1,440**	**12**	**20**	1	1	15	EX			180	DATA SYSTEMS RACK (13) [E]	18
19	SPARE (13)					20	1	1	**20**	**12**	**1,200**			**DIGITAL PHOTO CNTR #1 (19) [R]**	20
21	72M TV WALL #8 (13) [E]		960		EX	20	1	1	**20**	**12**		**1,200**		**DIGITAL PHOTO CNTR #2 (19) [R]**	22
23	72M TV WALL #9 (13) [E]			960	EX	20	1	1	**20**	**12**			**900**	**WIDE PRINTER (19) [R]**	24
25	72M TV WALL #10 (13) [E]	480			EX	20	1	1	**20**	**12**	**790**			**PHASER / SP UNIT (19) [R]**	26
27	72M TV WALL #11 (13) [E]		960		EX	20	1	1	**20**	**12**		**360**		**PHOTO RCPTS (19) [R]**	28
29	SPARE (13)					20	1	1	**20**	**12**			**840**	**DL PRINTER (19) [R]**	30
31	SPARE (13)					20	1	1	**20**					**SPARE (19)**	32
33	**SPARE (19)**					**20**	1	1	**20**					**SPARE (19)**	34
35	**11A HARDWARE #2 (19) [R]**			**1,440**	**12**	**20**	1	1	**20**					**SPARE (19)**	36
	SUBTOTAL	2,400	4,800	5,280							4,630	4,200	2,880	SUBTOTAL	

		LOAD		CONN. VA	DF	LOAD		CONN. VA	DF	
TOTAL PHASE A - VA	7,030	COOLING	[C]		1.00	REFRIG	[F]		1.00	
AMPS	59	HEATING	[H]		0	SIGNAGE	[S]		1.25	
TOTAL PHASE B - VA	9,000	LIGHTING	[L]		1.25	KITCHEN	[K]		1.00	
AMPS	75	RECEPTACLES	[R]	9,610	1.0/.5	EXISTING	[E]	13,140	1.00	
TOTAL PHASE C - VA	8,160	MOTORS	[M]		1.00	LRG MOTOR			1.25	TOTAL DEMAND
AMPS	68	SUPP HEAT	[U]		1.00	SHOW WND [W]			1.25	24,190 VA
TOTAL PNLBD - VA	24,190	MISC EQUIP	[Z]	1,440	1.00	LTG TRACK			1.00	67 A
AMPS	67									

BUSWAY: BL1B (ETR)

BUS AMPS: 100A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

MOUNTING: SURFACE
SERVES: ELECTRONICS
LOCATION: ELECTRONICS

CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	C	DESCRIPTION	CKT NO.
1	**ENG GONDOLA #1 (19) [R]**	**720**			**12**	**20**	1	1	20					SPARE (13)	2
3	RTU 22 RCPT (13) [E]		180		EX	20	1	1	20	EX		180		PRICE VERIFIER (13) [E]	4
5	**ENG GONDOLA #2 (19) [R]**			**720**	**12**	**20**	1	1	**20**	**12**			**64**	**VIN HOME VIGNETTE (19) [R]**	6
7	**ENG GONDOLA #3 (19) [R]**	**720**			**12**	**20**	1	1	**20**	**12**	**1,470**			**72A CASHWRAPS / TV'S (19) [RZ]**	8
9	**ENG GONDOLA #4 (19) [R]**		**720**		**12**	**20**	1	1	**20**	**12**		**1,200**		**87B KIOSKS (19) [R]**	10
11	**ENG GONDOLA #5 (19) [R]**			**720**	**12**	**20**	1	1	20					SPARE (13)	12
13	**ENT TABLE #1 (19) [Z]**	**1,080**			**12**	**20**	1	1	**20**	**12**	**720**			**ENG GONDOLA #6 (19) [R]**	14
15	**ENT TABLE #2 (19) [Z]**		**1,080**		**12**	**20**	1	1	**20**	**12**		**720**		**ENG GONDOLA #7 (19) [R]**	16
17	**ENT TABLE #3 (19) [Z]**			**1,080**	**12**	**20**	1	1	**20**	**12**			**720**	**ENG GONDOLA #8 (19) [R]**	18
19	**SPARE (19)**					**20**	1	1	**20**					**SPARE (19)**	20
21	**SPARE (19)**					**20**	1	1	**20**	**8**		**1,296**		**PET COOLER #1 (6.19) [F]**	22
23	**SPARE (19)**					**20**	1	1	**20**	**12**			**372**	**PET COOLER #2 (19) [F]**	24
25	IDF CABINET (13) [E]	1,440			EX	20	1	1	**20**	**12**	**1,440**			**ENG GONDOLA #9 (19) [R]**	26
27	**COLUMN RCPT / LBX (19) [ZE]**		**300**		**12**	**20**	1	1	**20**	**12**		**1,440**		**ENG GONDOLA #10 (19) [R]**	28
29	**SPARE (19)**					**20**	1	1	**20**	**12**			**1,440**	**ENG GONDOLA #11 (19) [R]**	30
31	COLUMN RCPTS (13) [E]	720			EX	20	1	1	**20**	**12**	**1,260**			**05H / ENG GONDOLA #12 (19) [R]**	32
33	RTU 19-21.24/ AHU1 RCPTS (13) [E]		900		EX	20	1	1	**20**	**12**		**720**		**ENG GONDOLA #13 (19) [R]**	34
35	**MEDIA TV #4 (19) [Z]**			**816**	**12**	**20**	1	1	**20**	**12**			**720**	**ENG GONDOLA #14 (19) [R]**	36
	SUBTOTAL	4,680	3,180	3,336							4,890	5,556	3,316	SUBTOTAL	

		LOAD		CONN. VA	DF	LOAD		CONN. VA	DF	
TOTAL PHASE A - VA	9,570	COOLING	[C]		1.00	REFRIG	[F]	1,668	1.00	
AMPS	80	HEATING	[H]		0	SIGNAGE	[S]		1.25	
TOTAL PHASE B - VA	8,736	LIGHTING	[L]		1.25	KITCHEN	[K]		1.00	
AMPS	73	RECEPTACLES	[R]	15,124	1.0/.5	EXISTING	[E]	3,600	1.00	
TOTAL PHASE C - VA	6,652	MOTORS	[M]		1.00	LRG MOTOR			1.25	TOTAL DEMAND
AMPS	55	SUPP HEAT	[U]		1.00	SHOW WND [W]			1.25	22,396 VA
TOTAL PNLBD - VA	24,958	MISC EQUIP	[Z]	4,566	1.00	LTG TRACK			1.00	62 A
AMPS	69									

BUSWAY: BL1C (ETR)

BUS AMPS: 100A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

MOUNTING: SURFACE
SERVES: SALES FLOOR POWER DROPS
LOCATION: SEASONAL

CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	C	DESCRIPTION	CKT NO.
1	**VIN / 09B/HSC SPORT (19) [Z]**	**1,036**			**12**	**20**	1	1	20					SPARE (13)	2
3	**HSC SPORTING GOODS (19) [FZ]**		**960**		**12**	**20**	1	1	20					SPARE (13)	4
5	**SPARE (19)**					**20**	1	1	20	EX			1,440	IDF CABINET (13) [E]	6
7	**12A COLOR CHIP BOARD (19) [Z]**	**456**			**12**	**20**	1	1	20	EX	180			10B AUDIO (13) [E]	8
9	**12B 5 GAL MIXER (19) [Z]**		**1,220**		**12**	**20**	1	1	20					SPARE (13)	10
11	**12B 1 GAL MIXER (19) [Z]**			**720**	**12**	**20**	1	1	**20**	**12**			**1,200**	**ACC KEY MACHINE (19) [Z]**	12
13	**12B COLOR DISP (19) [Z]**	**1,080**			**12**	**20**	1	1	**20**	**12**	**180**			**07B TOYS (19) [Z]**	14
15	**SPARE (19)**					**20**	1	1	20					SPARE (13)	16
17	SPARE (13)					20	1	1	**20**	**12**			**1,080**	**07A TOYS (19) [R]**	18
19	RTU 29.32 RCPTS (13) [E]	360			EX	20	1	1	**20**					**SPARE (19)**	20
21	SPARE (13)					20	1	1	**20**					**SPARE (19)**	22
23	SPARE (13)					20	1	1	20					SPARE (13)	24
25	SPARE (13)					20	1	1	20					SPARE (13)	26
27	**SPARE (19)**					**20**	1	1	**20**					**SPARE (19)**	28
29	**SPARE (19)**					**20**	1	1	**20**					**SPARE (19)**	30
	SUBTOTAL	2,932	2,180	720							360		3,720	SUBTOTAL	

		LOAD		CONN. VA	DF	LOAD		CONN. VA	DF	
TOTAL PHASE A - VA	3,292	COOLING	[C]		1.00	REFRIG	[F]	240	1.00	
AMPS	27	HEATING	[H]		0	SIGNAGE	[S]		1.25	
TOTAL PHASE B - VA	2,180	LIGHTING	[L]		1.25	KITCHEN	[K]		1.00	
AMPS	18	RECEPTACLES	[R]	1,080	1.0/.5	EXISTING	[E]	1,980	1.00	
TOTAL PHASE C - VA	4,440	MOTORS	[M]		1.00	LRG MOTOR			1.25	TOTAL DEMAND
AMPS	37	SUPP HEAT	[U]		1.00	SHOW WND [W]			1.25	9,912 VA
TOTAL PNLBD - VA	9,912	MISC EQUIP	[Z]	6,612	1.00	LTG TRACK			1.00	28 A
AMPS	28									

BUSWAY: BL2A (ETR)

BUS AMPS: 100A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

MOUNTING: SURFACE
SERVES: FRONT CHECKOUTS
LOCATION: FRONT CHECKOUTS

CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	C	DESCRIPTION	CKT NO.
1	**BELTED CO 10 / CLR (19) [FZ]**	**924**			**12**	**20**	1	1	**20**	**12**	**264**			**SCO 23,24 POS (19) [Z]**	2
3	**BELTED CO 11 / CLR (19) [FZ]**		**924**		**12**	**20**	1	1	**20**	**12**		**372**		**SCO 23,24 / CLRS #1 (19) [RF]**	4
5	**BELTED CO 12 / CLR (19) [FZ]**			**924**	**12**	**20**	1	1	**20**	**12**			**372**	**SCO 23,24 / CLRS #2 (19) [RF]**	6
7	**BELTED CO 13 / CLR (19) [FZ]**	**924**			**12**	**20**	1	1	**20**	**12**	**264**			**SCO 29,30 POS (19) [Z]**	8
9	**BELTED CO 14 / CLR (19) [FZ]**		**924**		**12**	**20**	1	1	**20**	**12**		**372**		**SCO 29,30 / CLRS #1 (19) [RF]**	10
11	**BELTED CO 15 / CLR (19) [FZ]**			**924**	**12**	**20**	1	1	**20**	**12**			**372**	**SCO 29,30 / CLRS #2 (19) [RF]**	12
13	**BELTED CO 16-18 POS (19) [Z]**	**792**			**12**	**20**	1	1	**20**	**12**	**924**			**BELTED CO 21 / CLR (19) [FZ]**	14
15	SPARE (13)					20	1	1	**20**	**12**		**924**		**BELTED CO 20 / CLR (19) [FZ]**	16
17	SPARE (13)					20	1	1	**20**	**12**			**924**	**BELTED CO 19 / CLR (19) [FZ]**	18
19	SPARE (13)					20	1	1	**20**	**12**	**600**			**LOTTERY VENDING #1 (19) [Z]**	20
21	**SCO 3,4,5,6,7 CLRS #1 (19) [RF]**		**744**		**12**	**20**	1	1	**20**	**12**		**924**		**BELTED CO 22 / CLR (19) [FZ]**	22
23	**SCO 3,4,5,6 / CLRS #2 (19) [RF]**			**744**	**12**	**20**	1	1	20	EX			180	PRICE VERIFIER (13) [E]	24
25	**SCO 1,2 / CLRS #1 (19) [RF]**	**480**			**12**	**20**	1	1	**20**	**12**	**744**			**SCO 25,26,27,28 / CLRS #1 (19) [RF]**	26
27	**SCO 1,2 / CLRS #2 (19) [RF]**		**480**		**12**	**20**	1	1	**20**	**12**		**744**		**SCO 25,26,27,28 / CLRS #2 (19) [RF]**	28
29	**SCO 1,2 POS (19) [Z]**			**264**	**12**	**20**	1	1	**20**	**12**			**210**	**FTR FITTING ROOMS (19) [Z]**	30
31	**SCO 7,8 / CLRS #1 (19) [RF]**	**372**			**12**	**20**	1	1	**20**	**12**	**924**			**BELTED CO 18 / CLR (19) [FZ]**	32
33	**SCO 7,8 / CLRS #2 (19) [RF]**		**372**		**12**	**20**	1	1	**20**	**12**		**816**		**MEDIA TV #1 (19) [Z]**	34
35	**SCO 7,8 POS (19) [Z]**			**264**	**12**	**20**	1	1	**20**	**12**			**816**	**MEDIA TV #2 (19) [Z]**	36
37	**LOTTERY VENDING #2 (19) [Z]**	**600**			**12**	**20**	1	1	**20**	**12**	**924**			**BELTED CO 17 / CLR (19) [FZ]**	38
39	**MEDIA TV #3 (19) [Z]**		**816**		**12**	**20**	1	1	**20**	**12**		**924**		**BELTED CO 16 / CLR (19) [FZ]**	40
41	COLUMN RCPTS (13) [E]			360	EX	20	1	1	20	EX			180	RTU 15 RCPT (13) [E]	42
	SUBTOTAL	4,092	4,260	3,480							4,644	5,076	3,054	SUBTOTAL	

		LOAD		CONN. VA	DF	LOAD		CONN. VA	DF	
TOTAL PHASE A - VA	8,736	COOLING	[C]		1.00	REFRIG	[F]	8,616	1.00	
AMPS	73	HEATING	[H]		0	SIGNAGE	[S]		1.25	
TOTAL PHASE B - VA	9,336	LIGHTING	[L]		1.25	KITCHEN	[K]		1.00	
AMPS	78	RECEPTACLES	[R]	2,700	1.0/.5	EXISTING	[E]	720	1.00	
TOTAL PHASE C - VA	6,534	MOTORS	[M]		1.00	LRG MOTOR			1.25	TOTAL DEMAND
AMPS	54	SUPP HEAT	[U]		1.00	SHOW WND [W]			1.25	24,606 VA
TOTAL PNLBD - VA	24,606	MISC EQUIP	[Z]	12,570	1.00	LTG TRACK			1.00	68 A
AMPS	68									

BUSWAY: BL2B (ETR)

BUS AMPS: 100A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

MOUNTING: SURFACE
SERVES: SALES FLOOR POWER DROPS
LOCATION: SEASONAL

CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	C	DESCRIPTION	CKT NO.
1	IDF CABINET (13) [E]	1,440			EX	20	1	1	**20**	**12**	**604**			**PV'S/VIN/16C SEASONAL (19) [ZE]**	2
3	**16C GARDEN CENTER #1 (19) [Z]**		**1,200**		**12**	**20**	1	1	**20**	**12**		**1,560**		**46E COSMETICS #6 (19) [Z]**	4
5	**16C GARDEN CENTER #2 (19) [Z]**			**600**	**12**	**20**	1	1	**20**	**12**			**1,430**	**46E COSMETICS #7 (19) [Z]**	6
7	**46E COSMETICS #1 (19) [Z]**	**1,300**			**12**	**20**	1	1	20					SPARE (13)	8
9	**46E COSMETICS #2 (19) [Z]**		**1,300**		**12**	**20**	1	1	**20**					**SPARE (19)**	10
11	SPARE (13)					20	1	1	**20**	**12**			**600**	**16C SEASONAL #1 (19) [R]**	12
13	**46E COSMETICS #3 (19) [Z]**	**520**			**12**	**20**	1	1	20	EX	1,200			16C SEASONAL #2 (13) [E]	14
15	**46E COSMETICS #4 (19) [Z]**		**780**		**12**	**20**	1	1	**20**	**12**		**910**		**46E COSMETICS #8 (19) [Z]**	16
17	**46E COSMETICS #5 (19) [Z]**			**780**	**12**	**20**	1	1	**20**	**12**			**910**	**46E COSMETICS #9 (19) [Z]**	18
19	**16C SEASONAL (19) [Z]**	**900**			**12**	**20**	1	1	20					SPARE (13)	20
21	**46F COSMETICS (19) [Z]**		**360**		**12**	**20**	1	1	20					SPARE (13)	22
23	**46F COSMETICS POS (19) [Z]**			**160**	**12**	**20**	1	1	20	EX			540	AHU3 / RTU 16,17 RCPTS (13) [E]	24
	SUBTOTAL	4,160	3,640	1,540							1,804	2,470	3,480	SUBTOTAL	

		LOAD		CONN. VA	DF	LOAD		CONN. VA	DF	
TOTAL PHASE A - VA	5,964	COOLING	[C]		1.00	REFRIG	[F]		1.00	
AMPS	50	HEATING	[H]		0	SIGNAGE	[S]		1.25	
TOTAL PHASE B - VA	6,110	LIGHTING	[L]		1.25	KITCHEN	[K]		1.00	
AMPS	51	RECEPTACLES	[R]	600	1.0/.5	EXISTING	[E]	3,540	1.00	
TOTAL PHASE C - VA	5,020	MOTORS	[M]		1.00	LRG MOTOR			1.25	TOTAL DEMAND
AMPS	42	SUPP HEAT	[U]		1.00	SHOW WND [W]			1.25	17,094 VA
TOTAL PNLBD - VA	17,094	MISC EQUIP	[Z]	12,954	1.00	LTG TRACK			1.00	47 A
AMPS	47									

BUSWAY: BL2U (ETR)

BUS AMPS: 40A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 120/240V, 1PH, 3W
SECTION: 1

MOUNTING: SURFACE
SERVES: FRONT CHECKOUTS
LOCATION: FRONT CHECKOUTS

CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	DESCRIPTION	CKT NO.
1	SPACE					1	1	**20**				**SPARE (19)**	2
3	**SCO 25-28 POS (19) [Z]**		**528**	**12**	**20**	1	1					SPACE	4
5	SPACE					1	1	**20**				**SPARE (19)**	6
7	**BELTED CHECKOUT 16-22 POS (19) [Z]**		**924**	**12**	**20**	1	1					SPACE	8
9	SPACE					1	1					N/A	10
11	**SCO 3-6 POS (19) [Z]**		**528**	**12**	**20**	1	1					N/A	12
	SUBTOTAL		1,980									SUBTOTAL	

		LOAD		CONN. VA	DF	LOAD		CONN. VA	DF	
TOTAL PHASE A - VA		COOLING	[C]		1.00	REFRIG	[F]		1.00	
AMPS		HEATING	[H]		0	SIGNAGE	[S]		1.25	
TOTAL PHASE B - VA	1,980	LIGHTING	[L]		1.25	KITCHEN	[K]		1.00	
AMPS	17	RECEPTACLES	[R]		1.0/.5	EXISTING	[E]		1.00	
TOTAL PNLBD - VA	1,980	MOTORS	[M]		1.00	LRG MOTOR			1.25	TOTAL DEMAND
AMPS	8	SUPP HEAT	[U]		1.00	SHOW WND [W]			1.25	1,980 VA
		MISC EQUIP	[Z]	1,980	1.00	LTG TRACK			1.00	8 A

REFER TO SHEET E4 FOR PANELBOARD NOTES

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DOCUMENT DATE: 01/08/25

NORTH CAROLINA PROFESSIONAL SEAL 37166 ENGINEER ERIC KESTERSON
02/11/2026

PANELBOARD SCHEDULES

SHEET: E4.3

ERIC S. KESTERSON

LEGEND FOR MODULAR COMPONENTS

RECEPTACLE INSTALLED IN POWER STRIP

POWER STRIP

MODULAR POWER DISTRIBUTION SYSTEM FURNISHED BY VENDOR, INSTALLED BY E.C.

NUMBER DENOTES WHICH CIRCUIT THE RECEPTACLE IS ATTACHED TO.

P$ / P$OS/D — JUNCTION BOX FOR SWITCH PRE-INSTALLED BY MODULAR MANUFACTURER.

$_P$ — VOICE/DATA BOX PRE-INSTALLED BY MODULAR MANUFACTURER.

$_P$ — OUTLET, BOX, AND WIRING BETWEEN DEVICES PRE-INSTALLED BY MODULAR MANUFACTURER. E.C. TO MAKE FINAL CONNECTION AS REQUIRED.

$_P$ — ALARM SYSTEM JUNCTION BOX PRE-INSTALLED BY MODULAR MANUFACTURER.

w — PRE-MANUFACTURED WHIP. E.C. TO PROVIDE CONNECTION TO WHIP AS SHOWN.

IG → w → PNL-#1G

w → PNL-#1,#2,#3

CIRCUITS INDICATED IN HOMERUNS FOR MODULAR EQUIPMENT CORRESPOND TO LINE #'S IN DETAIL 5-EPHM1-L-A

GENERAL MODULAR NOTES

1. COORDINATE AREA OF EXISTING CEILING GRID TO BE REPLACED WITH GENERAL CONTRACTOR. COORDINATE ANY REQUIRED ELECTRICAL WORK INCLUDING REMOVAL OF EXISTING FIXTURES. MAINTAIN EXISTING LAYOUT, CIRCUITRY, AND CONTROLS UNLESS OTHERWISE NOTED.
2. COORDINATE WITH GENERAL CONTRACTOR FOR PHARMACY DEMOLITION REQUIREMENTS.
3. ELECTRICAL CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR ON ACTUAL PHASING OF PHARMACY CONSTRUCTION. REUSE EXISTING COUNTER BRANCH CIRCUITRY AS MUCH AS POSSIBLE.
4. ELECTRICAL CONTRACTOR TO RELOCATE ALL DRIVE THRU EQUIPMENT POWER AND DATA AS REQUIRED. COORDINATE WITH GENERAL CONTRACTOR AND CONSTRUCTION MANAGER.PROVIDE LISTED HANDLE-TIE BETWEEN FRONT COUNTER CIRCUIT BREAKERS THAT SHARE COMMON NEUTRAL FOR SIMULTANEOUS TRIP.
5. PHARMACY REFRIGERATION SYSTEMS TO REMAIN ENERGIZED DURING ALL PHASES OF CONSTRUCTION.
6. PHARMACIST BENCH CAN BE RELOCATED PER THE FOLLOWING MAXIMUM DIMENSIONS, AS NEEDED TO RELOCATE THE POWER POLE THAT IS PLACED OPPOSITE END OF BENCH FROM HEALTH SERVICE ROOM TO MISS OBSTRUCTIONS IN THE CEILING ABOVE POWER POLE (LIGHTING AND/OR DIFFUSERS). THE BENCH CAN SLIDE A MAXIMUM 6" TO EITHER SIDE. THE BENCH MUST BE A MINIMUM OF 4'-0" FROM FRONT OF WILL CALL TO THE FRONT COUNTER, AND A MINIMUM OF 4'-0" FROM REAR OF BENCH TO FILL POD. COORDINATE WITH GENERAL CONTRACTOR PRIOR TO PHARMACIST BENCH ANCHORING
7. PROVIDE LISTED HANDLE-TIE BETWEEN FRONT COUNTER CIRCUIT BREAKERS THAT SHARE COMMON NEUTRAL FOR SIMULTANEOUS TRIP.
8. BRANCH CIRCUITRY AT FRONT COUNTER TO BE RUN THROUGH SIDEWALLS. COORDINATE DEVICE MOUNTING WITH JUNCTION BOXES PRE INSTALLED IN PANELS.
9. VENDOR FURNISHED MODULAR POWER DISTRIBUTION INCLUDES ALL REQUIRED LINE ENTRY CABLES, POWER-TO-POWER CABLE ASSEMBLIES, POWER DISTRIBUTION MODULES, POWER STRIPS AND OUTLETS. REFER TO MANUFACTURER'S INSTRUCTIONS FOR PROPER MOUNTING OF MODULAR POWER DISTRIBUTION.
10. WHEN MAKING FINAL CONNECTIONS, ELECTRICAL CONTRACTOR TO CONNECT DEVICES TO MODULAR POWER IN THAT SECTION OF COUNTER ONLY. DO NOT CONNECT TO OTHER SECTIONS OF FRONT COUNTER.
11. ELECTRICAL CONTRACTOR TO INSTALL VENDOR FURNISHED 50' WHIP FOR PHARMACIST BENCH. IF PANELBOARD BEING USED TO SERVE WHIP CIRCUITS IS MORE THAN 50' CIRCUIT FEET, ELECTRICAL CONTRACTOR TO SPLICE FEEDER TO WHIP PER NEC. DO NOT SPLICE WHIP IF PANELBOARD IS LESS THAN 50' CIRCUIT FEET FROM PHARMACIST BENCH.

KEYNOTES

16.125 EXISTING LIGHT FIXTURES TO REMAIN UNLESS NOTED OTHERWISE.

16.126 EXISTING LIGHT FIXTURE TO BE DEMOLISHED.

16.129 CONNECT TO EXISTING CIRCUIT PREVIOUSLY SERVING AREA LIGHTING THAT WAS REMOVED. MAINTAIN EXISTING CIRCUIT CONTROL UNLESS NOTED OTHERWISE. PROVIDE CONSTANT HOT FOR EMERGENCY EXIT AND LOCALLY CONTROLLED LIGHT FIXTURES.

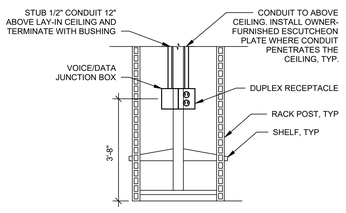
16.131 CONNECT TO EXISTING CIRCUIT.

16.145 CONNECT CIRCUIT(S) TO EXISTING BRANCH CIRCUITRY. MINIMUM WIRE SIZE AND PANELBOARD CIRCUIT ARE NOTED. VERIFY SIZE, RATING AND CONDITION OF EXISTING BRANCH CIRCUIT CONDUIT AND WIRE PRIOR TO USE TO ENSURE THAT THEY MEET REQUIRED SIZE, AND ALL U.L. RATINGS AND REPLACE AS REQUIRED.

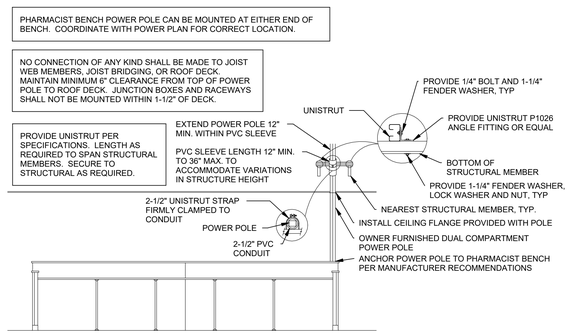
16.451 PROVIDE EMT WITH PROPERLY INSTALLED COMPRESSION OR SET-SCREW TYPE FITTINGS AND AN INSULATED EQUIPMENT GROUNDING CONDUCTOR FOR ALL RACEWAYS SERVING THIS ROOM TO COMPLY WITH NEC, HEALTH CARE FACILITIES.

16.492 E.C. SHALL COORDINATE WITH GENERAL CONTRACTOR AND ARCHITECTURAL DEMOLITION PLANS THE EXTENT OF ELECTRICAL DEMOLITION. REMOVE UNUSED DEVICES, BOXES, CONDUITS, AND WIRING BACK TO ORIGINATING JUNCTION BOXES OR PANELBOARDS. REFERENCE POWER PLANS FOR CIRCUITRY TO BE REUSED. DEMOLITION SHALL NOT AFFECT ACTIVE CIRCUITS. IF CIRCUIT IS DEMOLISHED ALL THE WAY TO PANELBOARD, REMOVE CIRCUIT BREAKER AND REPLACE WITH FILLER PLATE. UPDATE TYPEWRITTEN CIRCUIT DIRECTORY IDENTIFYING CIRCUIT AS "SPACE". COORDINATE EXACT REQUIREMENTS WITH EXISTING CONDITIONS PRIOR TO BID.

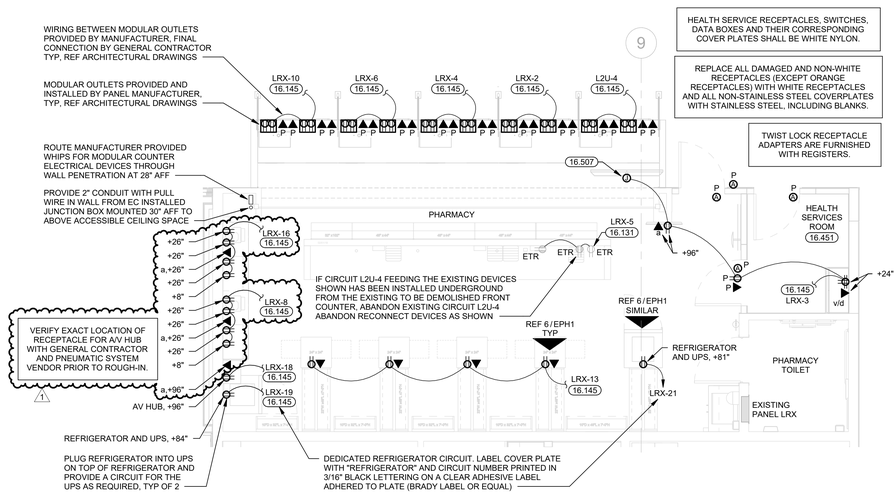
16.507 DIGITAL DISPLAYS: MOUNT JUNCTION BOX AT STRUCTURE. AFTER INSTALLATION OF DROP POLE AND DISPLAY MOUNTING BRACKET, EXTEND CONDUCTORS IN ½" FLEXIBLE METAL CONDUIT, ROUTED INSIDE DROP POLE, TO EACH DISPLAY MOUNTING BRACKET. PROVIDE 120V, 20A DUPLEX RECEPTACLE ON REAR OF EACH DISPLAY MOUNTING BRACKET AND MAKE FINAL TERMINATIONS. COORDINATE DISPLAY LOCATIONS WITH STORE SETUP SUPERVISOR.



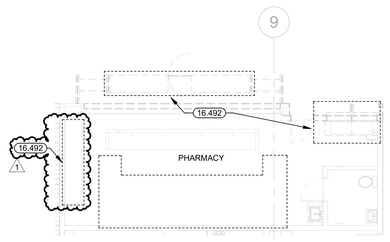
6 PHARMACY RACK POWER
NTS



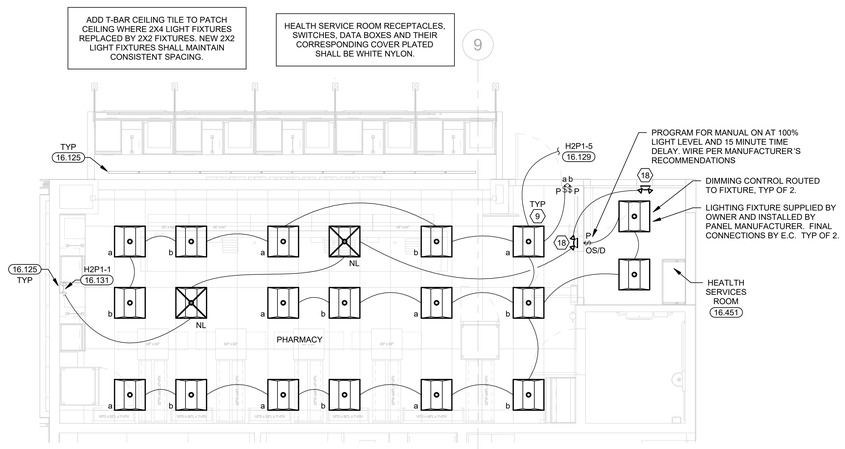
5 PHARMACIST BENCH POWER POLE
NTS



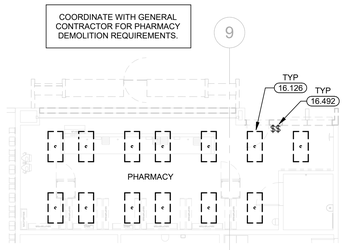
4 PHARMACY POWER PLAN
1/4" = 1'-0"



3 PHARMACY POWER DEMO PLAN
1/8" = 1'-0"



2 PHARMACY LIGHTING PLAN
1/4" = 1'-0"



1 PHARMACY LIGHTING DEMO PLAN
1/8" = 1'-0"

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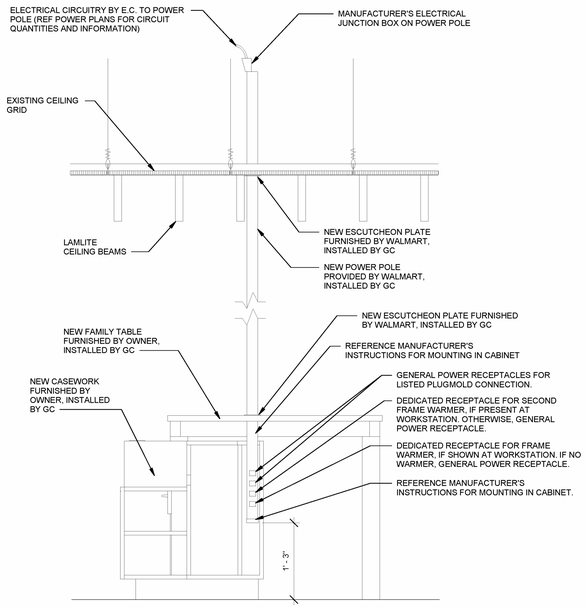
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07/02/2025

PHARMACY ELECTRICAL PLAN

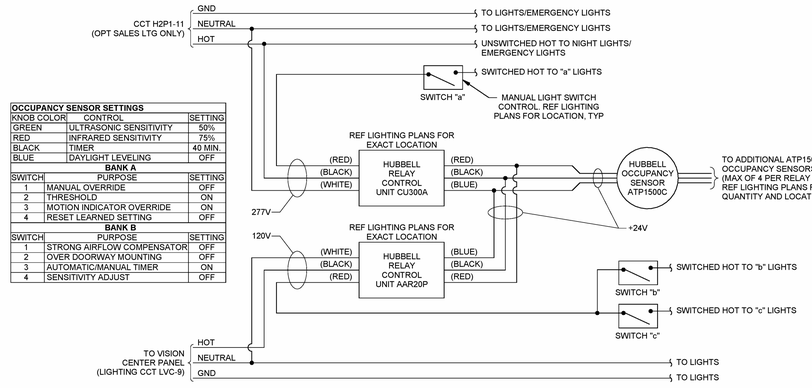
SHEET: EPH1

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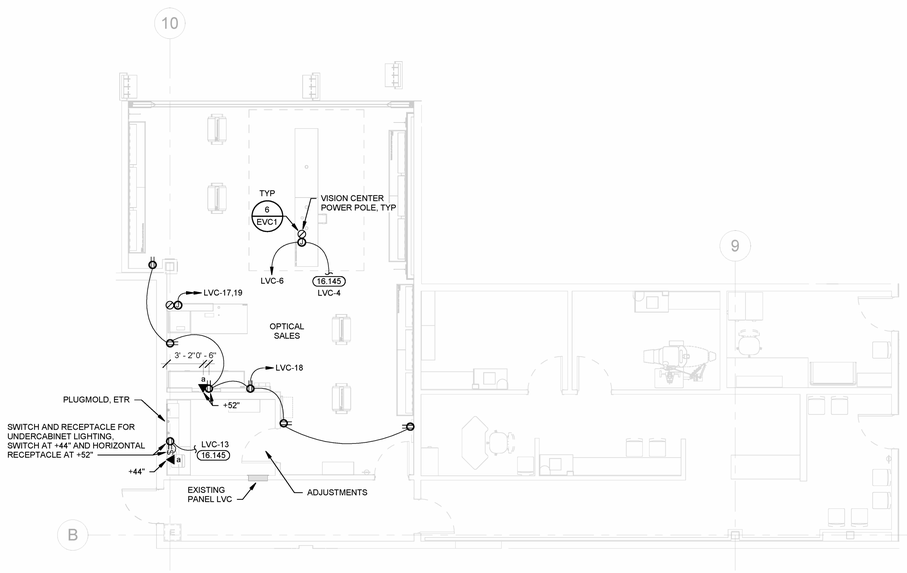


6 VISION CENTER POWER POLE
NTS

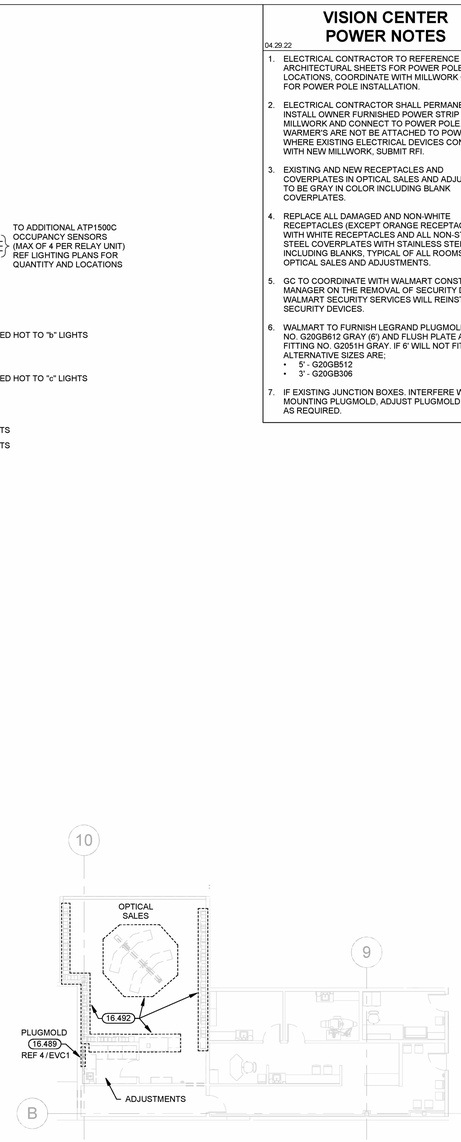
OCCUPANCY SENSOR SETTINGS		
KNOB COLOR	CONTROL	SETTING
GREEN	ULTRASONIC SENSITIVITY	50%
RED	INFRARED SENSITIVITY	75%
BLACK	TIMER	40 MIN.
BLUE	DAYLIGHT LEVELING	OFF
	BANK A	
SWITCH	PURPOSE	SETTING
1	MANUAL OVERRIDE	OFF
2	THRESHOLD	ON
3	MOTION INDICATOR OVERRIDE	ON
4	RESET LEARNED SETTING	OFF
	BANK B	
SWITCH	PURPOSE	SETTING
1	STRONG AIRFLOW COMPENSATOR	OFF
2	OVER DOORWAY MOUNTING	OFF
3	AUTOMATIC/MANUAL TIMER	ON
4	SENSITIVITY ADJUST	OFF



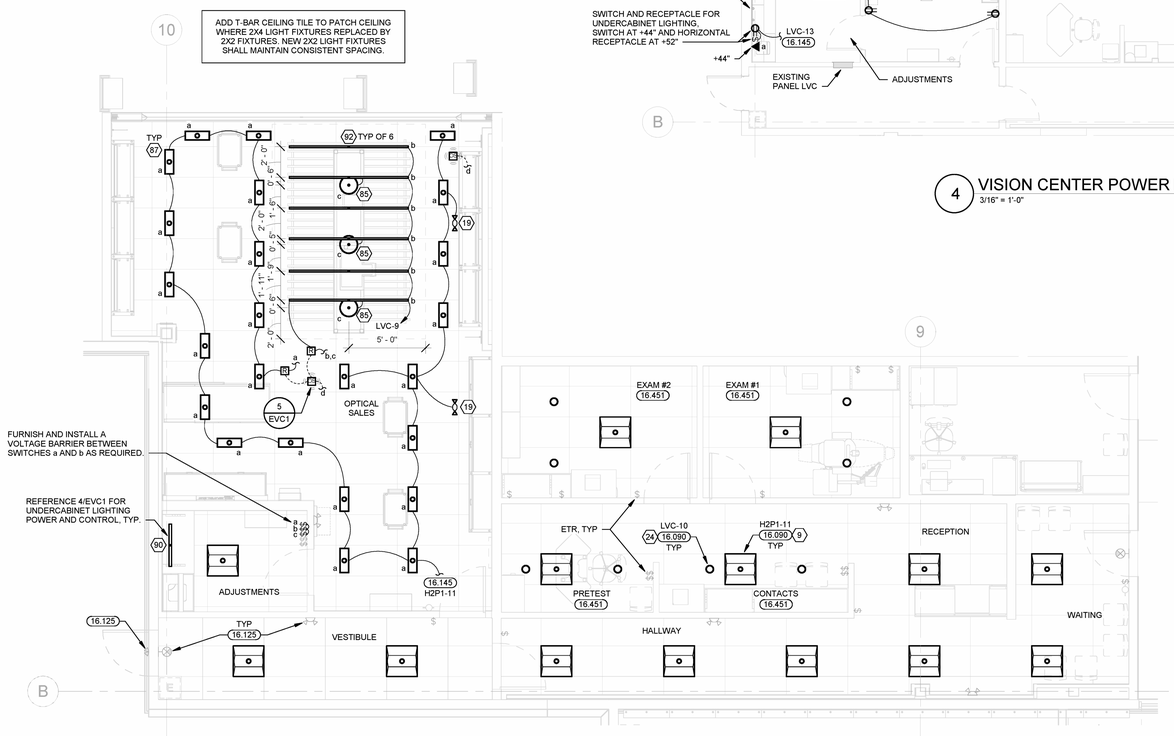
5 OCCUPANCY SENSOR/RELAY WIRING DIAGRAM AND SETTINGS
NTS



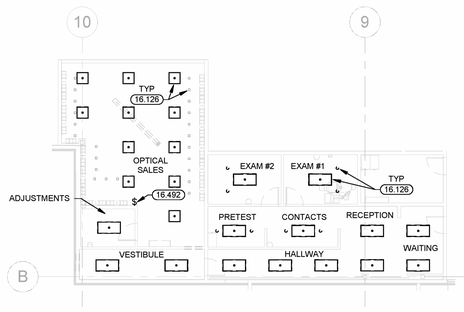
4 VISION CENTER POWER PLAN
3/16" = 1'-0"



3 VISION CENTER POWER DEMO PLAN
3/32" = 1'-0"



2 VISION CENTER LIGHTING PLAN
1/4" = 1'-0"



1 VISION CENTER LIGHTING DEMO PLAN
3/32" = 1'-0"

VISION CENTER POWER NOTES

04.29.22

1. ELECTRICAL CONTRACTOR TO REFERENCE ARCHITECTURAL SHEETS FOR POWER POLE LOCATIONS, COORDINATE WITH MILLWORK OPENING FOR POWER POLE INSTALLATION.
2. ELECTRICAL CONTRACTOR SHALL PERMANENTLY INSTALL OWNER FURNISHED POWER STRIP TO MILLWORK AND CONNECT TO POWER POLE. FRAME WARMER'S ARE NOT BE ATTACHED TO POWER STRIP. WHERE EXISTING ELECTRICAL DEVICES CONFLICT WITH NEW MILLWORK, SUBMIT RFI.
3. EXISTING AND NEW RECEPTACLES AND CONVERPLATES IN OPTICAL SALES AND ADJUSTMENTS TO BE GRAY IN COLOR INCLUDING BLANK COVERPLATES.
4. REPLACE ALL DAMAGED AND NON-WHITE RECEPTACLES (EXCEPT ORANGE RECEPTACLES) WITH WHITE RECEPTACLES AND ALL NON-STAINLESS STEEL COVERPLATES WITH STAINLESS STEEL, INCLUDING BLANKS, TYPICAL OF ALL ROOMS EXCEPT OPTICAL SALES AND ADJUSTMENTS.
5. GC TO COORDINATE WITH WALMART CONSTRUCTION MANAGER ON THE REMOVAL OF SECURITY DEVICES. WALMART SECURITY SERVICES WILL REINSTALL SECURITY DEVICES.
6. WALMART TO FURNISH LEGRAND PLUGMOLD MODEL NO. G20GB612 GRAY (6') AND FLUSH PLATE ADAPTER FITTING NO. G2051H GRAY. IF 6' WILL NOT FIT, ALTERNATIVE SIZES ARE;
   - 5' - G20GB512
   - 3' - G20GB306
7. IF EXISTING JUNCTION BOXES. INTERFERE WITH MOUNTING PLUGMOLD, ADJUST PLUGMOLD HEIGHT AS REQUIRED.

VISION CENTER LIGHTING NOTES

04.29.22

1. REFERENCE ARCHITECTURAL PLANS FOR FIXTURE TYPES 91 AND 92 MOUNTING HEIGHT.
2. CEILING MOUNTED OCCUPANCY SENSORS SHALL MEET THE FOLLOWING REQUIREMENTS;
   A. PLACE FRONT SENSORS 2'-0" FROM ENTRANCE BULKHEAD.
   B. PLACE AT LEAST 1'-4" FROM NEW CEILING STRUCTURE.
   C. BE AT LEAST 4'-0" FROM HVAC VENTS.
3. ADJUST AIMING OF TYPE 87 LIGHT FIXTURE HEADS AS REQUIRED TO PROVIDE PROPER ILLUMINATION AT FLOOR. TYPE 87 FIXTURE HEADS ALONG PERIMETER TO BE AIMED AT PRODUCT BY GC.
4. EXISTING CEILING GRID IN OPTICAL SALES AND DOCTOR'S ARE ASSUMED TO BE 2X4. IF CEILING GRID IN OPTICAL SALES IS 2X2, KEEP AS EXISTING TO REMAIN. SUBMIT RFI TO CONFIRM.
5. ALL LIGHT SWITCHES AND COVERPLATES IN OPTICAL SALES AND ADJUSTMENTS TO BE GRAY IN COLOR INCLUDING BLANK COVERPLATES.
6. REPLACE ALL DAMAGED AND NON-WHITE RECEPTACLES (EXCEPT ORANGE RECEPTACLES) WITH WHITE RECEPTACLES AND ALL NON-STAINLESS STEEL COVERPLATES WITH STAINLESS STEEL, INCLUDING BLANKS, TYP OF ALL ROOMS EXCEPT OPTICAL SALES AND ADJUSTMENTS.
7. ADD T-BAR AND CEILING TILE TO PATCH CEILING WHERE 2X4 LIGHT FIXTURES ARE REPLACED BY 2X2 LIGHT FIXTURES. NEW 2X2 LIGHT FIXTURES SHALL MAINTAIN CONSISTENT SPACING.(E.G., ALL 2X2 INSTALLED IN PLAN NORTH END WHERE 2X4'S ARE BEING REPLACED).
8. EXISTING LIGHT SWITCHES, OCCUPANCY SENSORS, AND DIMMERS IN CONTACTS, EXAM #1, EXAM #2, PRETEST, ADJUSTMENTS, AND WAITING ARE EXISTING TO REMAIN. IF THESE ITEMS ARE NOT EXISTING, SUBMIT RFI FOR FURTHER DIRECTION.
9. CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE INSTALLATION OF THE LIGHTING SYSTEM AS INDICATED ON PLANS AND/OR AS MODIFIED TO ACCOMMODATE EXISTING OBSTRUCTIONS. IDENTIFY CONFLICTS PRIOR TO ROUGH-IN. WHERE CONFLICTS WITH EXISTING UTILITIES OCCUR ADJUST FIXTURE LOCATION AS REQUIRED. FIXTURES SHALL BE INSTALLED AS NEAR AS POSSIBLE TO LOCATIONS INDICATED ON PLANS WITH EVEN SPACING MAINTAINED.

KEYNOTES

16.090	REPLACE EXISTING LIGHT FIXTURES IN THIS AREA WITH TYPE AND QUANTITY INDICATED. INSTALL NEW LIGHT FIXTURE IN SAME LOCATION AS EXISTING LIGHT FIXTURE BEING REPLACED. RECONNECT TO EXISTING CIRCUITRY AND CONTROLS.
16.125	EXISTING LIGHT FIXTURES TO REMAIN UNLESS NOTED OTHERWISE.
16.126	EXISTING LIGHT FIXTURE TO BE DEMOLISHED.
16.145	CONNECT CIRCUIT(S) TO EXISTING BRANCH CIRCUITRY. MINIMUM WIRE SIZE AND PANELBOARD CIRCUIT ARE NOTED. VERIFY SIZE, RATING AND CONDITION OF EXISTING BRANCH CIRCUIT CONDUIT AND WIRE PRIOR TO USE TO ENSURE THAT THEY MEET REQUIRED SIZE, AND ALL U.L. RATINGS AND REPLACE AS REQUIRED.
16.451	PROVIDE EMT WITH PROPERLY INSTALLED COMPRESSION OR SET-SCREW TYPE FITTINGS AND AN INSULATED EQUIPMENT GROUNDING CONDUCTOR FOR ALL RACEWAYS SERVING THIS ROOM TO COMPLY WITH NEC, HEALTH CARE FACILITIES.
16.489	RELOCATE, EXTEND, AND RECONNECT CIRCUITRY AND ELECTRICAL DEVICES FOR RELOCATED AND/OR NEW EQUIPMENT. VERIFY CONDITION OF BRANCH CIRCUITRY, CONDUIT AND WIRE TO ENSURE THEY MEET ALL U.L. RATINGS AND REPLACE AS REQUIRED. VERIFY FINAL LOCATION OF RELOCATED/NEW EQUIPMENT WITH WALMART CONSTRUCTION MANAGER PRIOR TO ROUGH-IN.
16.492	E.C. SHALL COORDINATE WITH GENERAL CONTRACTOR AND ARCHITECTURAL DEMOLITION PLANS THE EXTENT OF ELECTRICAL DEMOLITION. REMOVE UNUSED DEVICES, BOXES, CONDUITS, AND WIRING BACK TO ORIGINATING JUNCTION BOXES OR PANELBOARDS. REFERENCE POWER PLANS FOR CIRCUITRY TO BE REUSED. DEMOLITION SHALL NOT AFFECT ACTIVE CIRCUITS. IF CIRCUIT IS DEMOLISHED ALL THE WAY TO PANELBOARD, REMOVE CIRCUIT BREAKER AND REPLACE WITH FILLER PLATE. UPDATE TYPEWRITTEN CIRCUIT DIRECTORY IDENTIFYING CIRCUIT AS "SPACE". COORDINATE EXACT REQUIREMENTS WITH EXISTING CONDITIONS PRIOR TO BID.

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELF WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

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ALABAMA LICENSED No. 31485-E PROFESSIONAL ENGINEER ERIC S. KESTERSON

01/07/2025

VISION CENTER ELECTRICAL PLAN

SHEET: EVC1

ERIC S. KESTERSON

FEEDER SCHEDULE

ALL CONDUIT AND CONDUCTOR SIZES ARE BASED ON EMT WITH 40% FILL, 75ºC RATED TERMINATIONS AND TYPE THHN/THWN-2 INSULATION. FOR NON-EMT CONDUIT OR TERMINATIONS OR INSULATION TYPES RATED LESS THAN 75ºC, MODIFY SIZES ACCORDING TO NEC.

XXX	FEEDER OR GROUND SIZE
22	(2)#12, (1)#12 G, 1/2" C
32	(2)#10, (1)#10 G, 1/2" C
42	(2)#8, (1)#10 G, 1/2" C

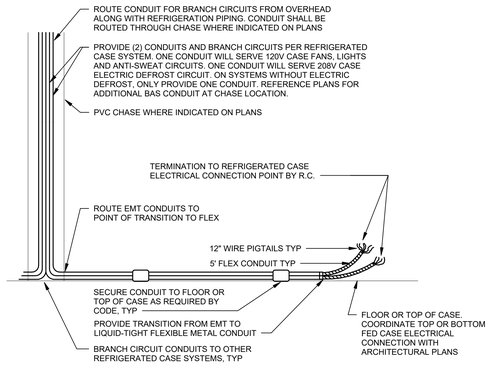
GENERAL REFRIGERATION ELECTRICAL NOTES

08.28.20

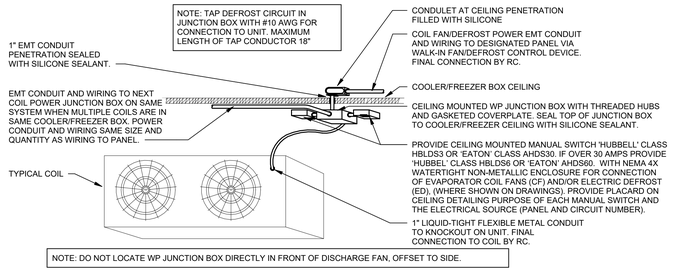
1. COORDINATE ALL WORK WITH REFRIGERATION CONTRACTOR (R.C.) PRIOR TO INSTALLATION.
2. REFRIGERATED CASES: E.C. SHALL PROVIDE CONDUIT AND WIRE FOR REFRIGERATED CASE FANS, LIGHTS AND ANTI-SWEAT HEATERS, AND (IF APPLICABLE) ELECTRICAL DEFROST. PROVIDE ADEQUATE CONDUCTOR LENGTH TO ALLOW TERMINATION. NEATLY BUNDLE CIRCUITS AND CLEARLY TAG AND LABEL EACH CIRCUIT WITH BRANCH CIRCUIT DESIGNATION AND REFRIGERATION SYSTEM NUMBER FOR FINAL TERMINATION AT CASE BY R.C. REF CASE CONNECTION WIRING DETAIL.
3. IF NEW CASES ARE PROVIDED WITH A FACTORY INSTALLED TERMINAL STRIP AND JUMPERS FOR CONNECTION TO A SINGLE CIRCUIT FOR 120V CASE LOADS. RC SHALL REMOVE FACTORY INSTALLED JUMPERS AS REQUIRED TO UTILIZE EXISTING SEPARATE 120V FAN/LIGHT/ANTI-SWEAT CIRCUITS AS INDICATED ON PLANS AND/OR PANELBOARD SCHEDULES. ANY EXISTING ANTI-SWEAT CONTROL (SWEATMISER) SHALL BE BY-PASSED. CASES UTILIZING ELECTRICAL DEFROST WILL BE PROVIDED WITH SEPARATE 208V TERMINATIONS AT THE TERMINAL STRIP FOR CONNECTION TO THE 208V ELECTRIC DEFROST CIRCUIT. RC SHALL MAKE FINAL TERMINATIONS OF 120V AND 208V POWER CIRCUIT(S) AT CASE TERMINAL STRIP. REFER TO CASE CONNECTION SCHEMATIC ON REFRIGERATION SHEETS.
4. WALK-IN UNITS: PROVIDE CONDUIT AND WIRE FOR EVAPORATOR COIL FANS (CF) AND (IF APPLICABLE) ELECTRIC DEFROST (ED). PROVIDE ADEQUATE CONDUCTOR LENGTH TO ALLOW TERMINATION. NEATLY BUNDLE CIRCUITS AND CLEARLY TAG AND LABEL EACH CIRCUIT WITH BRANCH CIRCUIT DESIGNATION AND REFRIGERATION SYSTEM NUMBER FOR FINAL TERMINATION AT COIL BY R.C. REF EVAPORATOR COIL WIRING DETAIL.
5. ROUTE REFRIGERATED CASE AND WALK-IN UNIT COIL FAN, LIGHTS, ANTI-SWEAT AND DEFROST BRANCH CIRCUITS TO WIREWAYS PROVIDED AT REFRIGERATION EQUIPMENT AND/OR PANELBOARDS AS REQUIRED.
6. REFRIGERATED CASE WIRING COMPARTMENT REPRESENTED ON DRAWING BY JUNCTION BOX.
7. KEEP PENETRATIONS THROUGH WALK-IN UNITS TO A MINIMUM. ROUTE ALL CONDUITS SERVING FREEZERS AND COOLERS ON INSIDE OF BOX.
8. ALL CONDUITS INSTALLED ON TOP OF WALK-IN UNITS SHALL BE A MINIMUM OF 6" FROM ANY EDGE TO ALLOW SPACE FOR EDGE PROTECTION NETTING. DO NOT ROUTE CONDUITS ABOVE THE CEILING GRID ACCESS UNLESS CONDUITS ARE INSTALLED IN JOIST SPACE, REF ARCH.
9. UNDERSLAB CIRCUITS SHALL NOT BE ROUTED UNDER WALK-IN FREEZERS AND SHALL BE ROUTED ABOVE REFRIGERANT LINES WHERE THEY CROSS.
10. CIRCUITS FOR REFRIGERATED CASES SERVED BY UNDERSLAB REFRIGERATION PIPING ARE TO BE ROUTED UNDERSLAB AND EXTENDED TO THE FIRST CASE IN EACH SYSTEM. WIRING AND CONDUIT FOR SLAVE WIRING BETWEEN CASES SHALL BE PROVIDED BY R.C. REFER TO UNDERSLAB CASE CONNECTION WIRING DETAIL.
11. ALL UNDERSLAB CONDUITS SHALL BE 3/4" MIN.
12. CIRCUITS FOR REFRIGERATED CASES SERVED BY OVERHEAD REFRIGERATION PIPING ARE TO BE ROUTED DOWN FROM STRUCTURE AT THE SAME LOCATION AS THE REFRIGERATION PIPING AND EXTENDED TO THE FIRST CASE IN EACH SYSTEM. WIRE AND CONDUIT FOR SLAVE WIRING BETWEEN CASES SHALL BE PROVIDED BY THE R.C. REFER TO OVERHEAD CASE CONNECTION WIRING DETAIL.
13. ON GROUPS OF THREE OR MORE REFRIGERATED CASES WITH ELECTRIC DEFROST, R.C. SHALL CONNECT CASES TO CREATE A THREE-PHASE HEATER CIRCUIT. HEATER LOADS SHALL BE BALANCED BETWEEN PHASES AS EVENLY AS POSSIBLE. REF CASE DEFROST WIRING DETAIL.
14. PROVIDE A SEPARATE NEUTRAL FOR EACH NEW BRANCH CIRCUIT SERVING REFRIGERATED CASES OR WALK-IN UNITS.
15. PROVIDE CIRCUIT BREAKER LOCKING DEVICE (LOCK-OFF FOR MAINTENANCE) ON NEW AND/OR EXISTING CIRCUIT BREAKERS SERVING REFRIGERATED CASES.
16. REFERENCE ARCHITECTURAL DEMOLITION PLANS FOR FULL EXTENT OF DEMOLITION WORK REQUIRED.

KEYNOTES

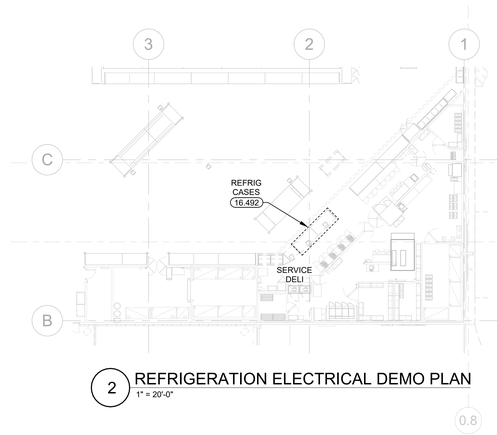
16.145	CONNECT CIRCUIT(S) TO EXISTING BRANCH CIRCUITRY. MINIMUM WIRE SIZE AND PANELBOARD CIRCUIT ARE NOTED. VERIFY SIZE, RATING AND CONDITION OF EXISTING BRANCH CIRCUIT CONDUIT AND WIRE PRIOR TO USE TO ENSURE THAT THEY MEET REQUIRED SIZE, AND ALL U.L. RATINGS AND REPLACE AS REQUIRED.
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16.710	BUILDING AUTOMATION CONDUITS: PROVIDE 1" (UNLESS NOTED OTHERWISE) CONDUIT (WITH PULL WIRE) ROUTED FROM 6" ABOVE BOTTOM OF BAR JOIST IN SALES FLOOR ACCESSIBLE CEILING SPACE THROUGH PVC CHASE.
16.711	POINT OF TRANSITION FROM EMT TO FLEX. PROVIDE CONDUIT AND BRANCH CIRCUITS FOR REFRIGERATED CASE FANS, LIGHTS, ANTI-SWEAT HEATERS, AND ELECTRICAL DEFROST (IF REQUIRED). TERMINATION TO REFRIGERATED CASE ELECTRICAL CONNECTION POINT BY R.C. REFER TO CASE CONNECTION WIRING DETAIL.
16.723	REFRIGERATION BUILDING AUTOMATION SYSTEM CONTROLLER AND/OR LEAK DETECTION PANEL FURNISHED AND INSTALLED BY OTHERS. PROVIDE POWER AS INDICATED INCLUDING HANDLE LOCK-ON/LOCK-OFF DEVICE AT BREAKER(S). FINAL TERMINATIONS AT BAS/LEAK DETECTION PANELS BY R.C. VERIFY EXACT LOCATION OF ENCLOSURE WITH BAS CONTRACTOR.
16.725	ROUTE COIL FAN (CF) AND/OR ELECTRIC DEFROST (ED) CIRCUITS FROM THE BAS CONTROLLER. FINAL TERMINATIONS AT ENCLOSURE BY R.C.



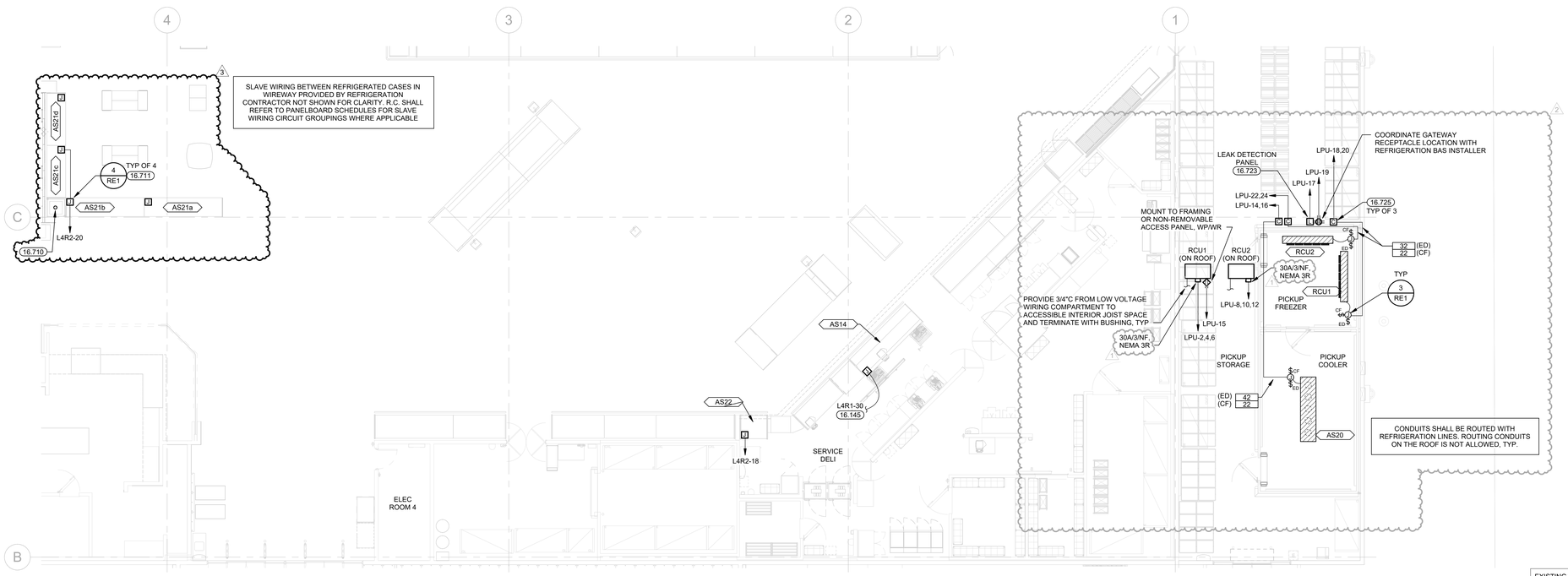
4 OVERHEAD CASE CONNECTION WIRING
12" = 1'-0"



3 EVAPORATOR COIL WIRING
NTS



2 REFRIGERATION ELECTRICAL DEMO PLAN
1" = 20'-0"



1 FRONT REFRIGERATION ELECTRICAL PLAN
1/8" = 1'-0"

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2	ADD#2	9/10/25
3	CCD#3	02/12/26

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 37166 ERIC KESTERSON
02/11/2026

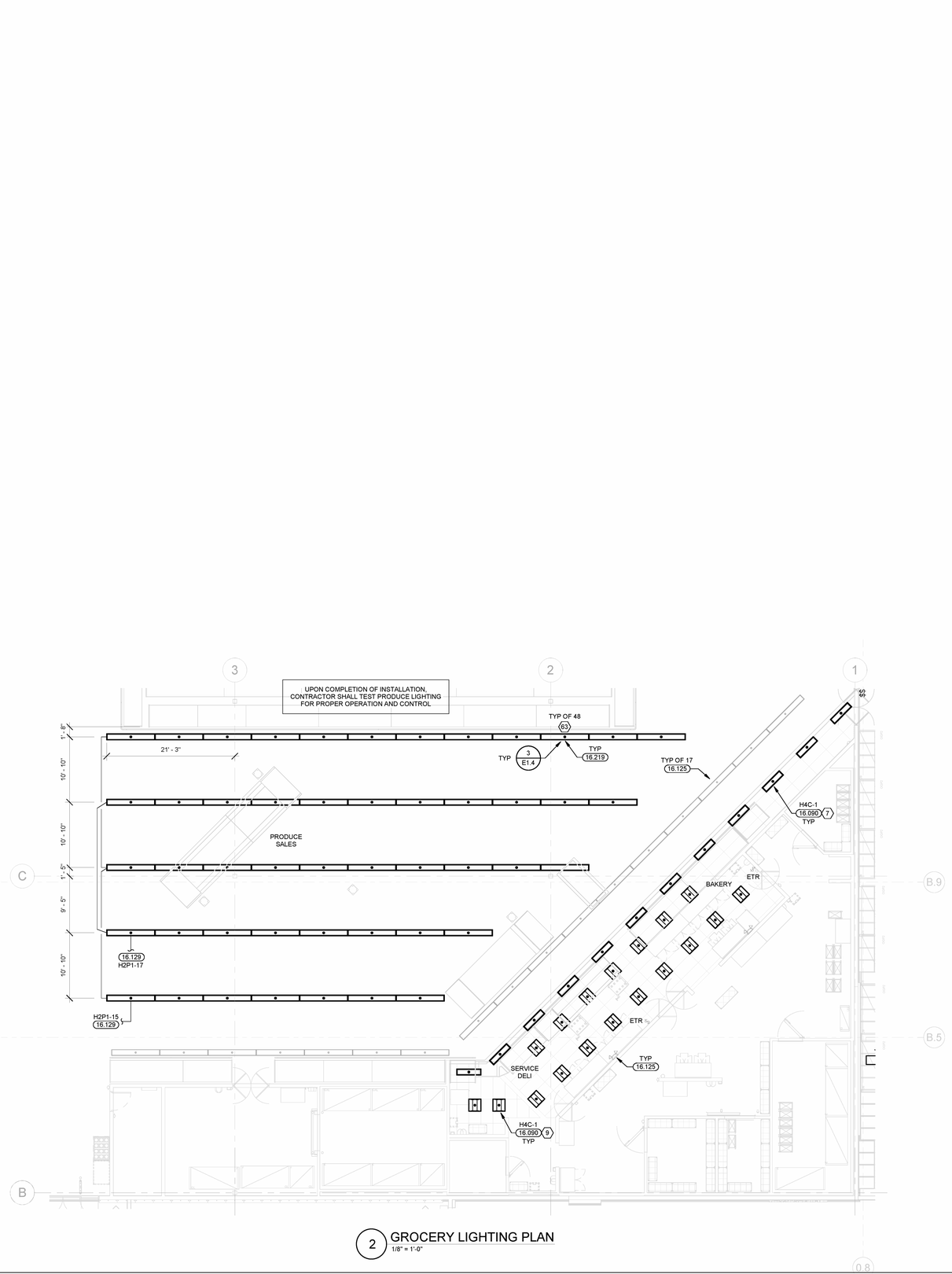
REFRIGERATION ELECTRICAL PLANS

SHEET: RE1

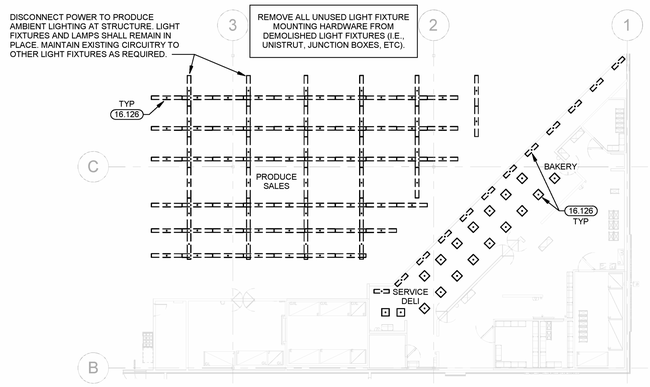
ERIC S. KESTERSON

KEYNOTES

16.090	REPLACE EXISTING LIGHT FIXTURES IN THIS AREA WITH TYPE AND QUANTITY INDICATED. INSTALL NEW LIGHT FIXTURE IN SAME LOCATION AS EXISTING LIGHT FIXTURE BEING REPLACED. RECONNECT TO EXISTING CIRCUITRY AND CONTROLS.
16.125	EXISTING LIGHT FIXTURES TO REMAIN UNLESS NOTED OTHERWISE.
16.126	EXISTING LIGHT FIXTURE TO BE DEMOLISHED.
16.129	CONNECT TO EXISTING CIRCUIT PREVIOUSLY SERVING AREA LIGHTING THAT WAS REMOVED. MAINTAIN EXISTING CIRCUIT CONTROL UNLESS NOTED OTHERWISE. PROVIDE CONSTANT HOT FOR EMERGENCY EXIT AND LOCALLY CONTROLLED LIGHT FIXTURES.
16.219	UTILIZE AIRCRAFT CABLE AND HANGERS FURNISHED WITH FIXTURES TO SUSPEND TO 13'-0". INSTALL FIRST CABLE WITHIN 18" OF EACH END OF ROW. PROVIDE POWER TO THE END OF EACH ROW VIA FLEXIBLE METAL CONDUIT AT THE END OF THE ROW FARTHEST FROM THE MAIN ENTRANCE. FIXTURES ARE SHIPPED WITH INTEGRAL WIRING HARNESSES AND MECHANICAL CONNECTORS FOR CONTINUOUS ROW MOUNTING. REFERENCE MANUFACTURER'S INSTRUCTIONS FOR DETAILS ON ATTACHING AND ALIGNING FIXTURES USING HARDWARE PROVIDED.



2 GROCERY LIGHTING PLAN
1/8" = 1'-0"



1 GROCERY LIGHTING DEMO PLAN
1/16" = 1'-0"

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PROTO CYCLE:	07/26/24
DOCUMENT DATE:	01/08/25

ALABAMA LICENSED No. 31485-E PROFESSIONAL ELECTRICAL ENGINEER ERIC S. KESTERSON

01/07/2025

GROCERY LIGHTING PLANS

SHEET:
GE1

ERIC S. KESTERSON

KITCHEN DEVICE SCHEDULE

NUMBER	DESCRIPTION	MANUFACTURER	MODEL	VOLT/PHASE	AMPS	TERMINATION	MTG. HT.	NOTES
DELI EQUIPMENT SCHEDULE								
D007B.1	SLICER	BIZERBA	GSP H/GSP HD	120/1	3.50 A	WP CONNECTOR, NEMA: 5-20C	44"	K
REFRIGERATED AND HOT CASE SCHEDULE								
RH0135 - 8'	8' HOT DELI SELF-SERVICE MULTI-DECK	CUSTOM DELI'S	ILW-CB-SS	120/208/3	26.00 A	WP JUNCTION BOX	12"	E,F

A. PROVIDE CORROSION RESISTANT PLUG, CONNECTOR, AND WEATHERPROOF BOOTS. CONNECTOR AND WEATHERBOOTS SHALL BE FROM THE SAME MANUFACTURER.
B. PROVIDE MATCHING CORD AND MALE PLUG.
C. WIRING DEVICE ON DROP CORD FROM CEILING. REFER TO SUSPENDED DROP CORD DETAILS.
D. WIRING DEVICE CIRCUITED TO SHUNT-TRIP BREAKER.
E. PROVIDE WEATHERTIGHT FLEX CONDUIT AND WIRING FROM DISCONNECT SWITCH OR JUNCTION BOX TO EQUIPMENT KNOCKOUT OR ELECTRICAL CONNECTION POINT.
F. MAKE FINAL CONNECTIONS TO EQUIPMENT.
G. PROVIDE CORROSION PROOF PLUGS AND RECEPTACLES FOR EQUIPMENT SPECIFIED ON ELECTRICAL EQUIPMENT SCHEDULE NOTES.
H. VERIFY EXACT POINT(S) OF CONNECTION(S) AND FIELD WIRING REQUIREMENTS WITH EQUIPMENT INSTALLER.
I. IF NOT FURNISHED WITH EQUIPMENT, FURNISH AND INSTALL 6'-0" LONG SJO CORD WITH GROUNDING CONDUCTOR, SIZED AS FOLLOWS:
5 CONDUCTORS: #8W,(28A), #10W,(20A), #12W,(16A), #14W,(12A). 4 CONDUCTORS: #4,(60A), #8W,(35A), #10W,(25A), #12W,(20A), #14W,(15A).
3 CONDUCTORS: #8W,(40A), #10W,(30A), #12W,(25A), #14W,(18A). FURNISH AND INSTALL GROUNDING TYPE ATTACHMENT CAP
J. SEE ELECTRICAL SPECIFICATIONS FOR RECEPTACLE, CONNECTOR, AND PLUG INFORMATION. PROVIDE AS REQUIRED.
K. CORD AND PLUG FURNISHED WITH EQUIPMENT.
L. FAN CONNECTED THROUGH 120V RELAY, 10A MAX

KEYNOTES

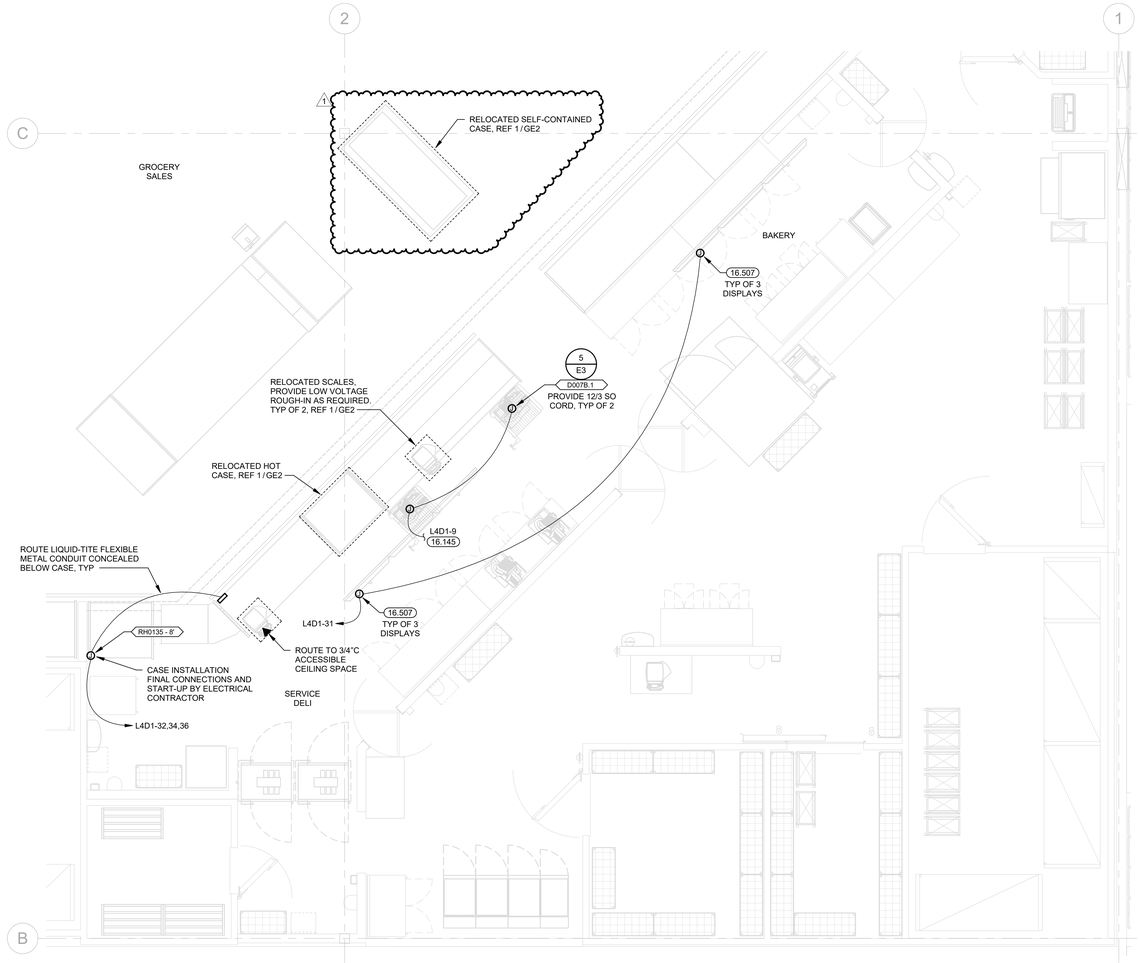
16.145 CONNECT CIRCUIT(S) TO EXISTING BRANCH CIRCUITRY. MINIMUM WIRE SIZE AND PANELBOARD CIRCUIT ARE NOTED. VERIFY SIZE, RATING AND CONDITION OF EXISTING BRANCH CIRCUIT CONDUIT AND WIRE PRIOR TO USE TO ENSURE THAT THEY MEET REQUIRED SIZE, AND ALL U.L. RATINGS AND REPLACE AS REQUIRED.

16.489 RELOCATE, EXTEND, AND RECONNECT CIRCUITRY AND ELECTRICAL DEVICES FOR RELOCATED AND/OR NEW EQUIPMENT. VERIFY CONDITION OF BRANCH CIRCUITRY, CONDUIT AND WIRE TO ENSURE THEY MEET ALL U.L. RATINGS AND REPLACE AS REQUIRED. VERIFY FINAL LOCATION OF RELOCATED/NEW EQUIPMENT WITH WALMART CONSTRUCTION MANAGER PRIOR TO ROUGH-IN.

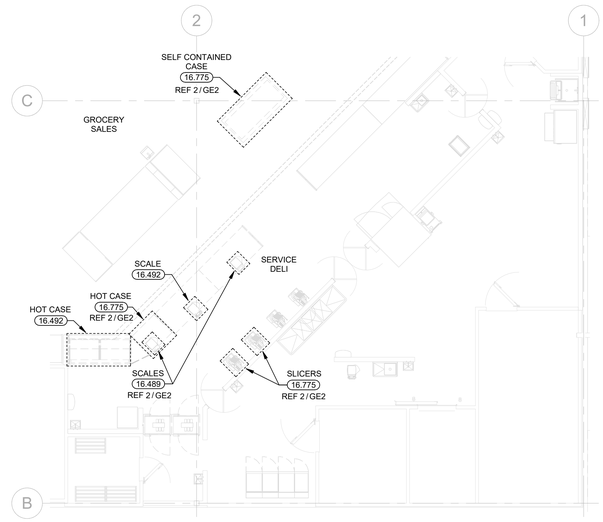
16.492 E.C. SHALL COORDINATE WITH GENERAL CONTRACTOR AND ARCHITECTURAL DEMOLITION PLANS THE EXTENT OF ELECTRICAL DEMOLITION. REMOVE UNUSED DEVICES, BOXES, CONDUITS, AND WIRING BACK TO ORIGINATING JUNCTION BOXES OR PANELBOARDS. REFERENCE POWER PLANS FOR CIRCUITRY TO BE REUSED. DEMOLITION SHALL NOT AFFECT ACTIVE CIRCUITS. IF CIRCUIT IS DEMOLISHED ALL THE WAY TO PANELBOARD, REMOVE CIRCUIT BREAKER AND REPLACE WITH FILLER PLATE. UPDATE TYPEWRITTEN CIRCUIT DIRECTORY IDENTIFYING CIRCUIT AS "SPACE". COORDINATE EXACT REQUIREMENTS WITH EXISTING CONDITIONS PRIOR TO BID.

16.507 DIGITAL DISPLAYS: MOUNT JUNCTION BOX AT STRUCTURE. AFTER INSTALLATION OF DROP POLE AND DISPLAY MOUNTING BRACKET, EXTEND CONDUCTORS IN ½" FLEXIBLE METAL CONDUIT, ROUTED INSIDE DROP POLE, TO EACH DISPLAY MOUNTING BRACKET. PROVIDE 120V, 20A DUPLEX RECEPTACLE ON REAR OF EACH DISPLAY MOUNTING BRACKET AND MAKE FINAL TERMINATIONS. COORDINATE DISPLAY LOCATIONS WITH STORE SETUP SUPERVISOR.

16.775 E.C. SHALL DISCONNECT, EXTEND, AND RECONNECT ALL ELECTRICAL CIRCUITRY FOR NEW OR RELOCATED EQUIPMENT. REFERENCE POWER PLANS AS APPLICABLE. VERIFY CONDITION OF BRANCH CIRCUIT, CONDUIT, AND WIRE PRIOR TO USE TO ENSURE THAT THEY MEET ALL U.L. RATINGS AND REPLACE AS REQUIRED. COORDINATE THIS PROCESS WITH CONSTRUCTION MANAGER TO MINIMIZE DOWNTIME. LABEL ALL ASSOCIATED PANELBOARD SCHEDULES TO REFLECT LOAD DESCRIPTIONS.



2 GROCERY POWER PLAN
1/4" = 1'-0"



1 GROCERY POWER DEMO PLAN
1/8" = 1'-0"

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELF WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

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THIS DRAWING WAS PREPARED FOR USE ON THIS PROJECT ONLY AND CONTEMPORANEOUSLY WITH ITS ISSUE DATE AND SHALL NOT BE USED FOR ANY OTHER PROJECT OR ADDITIONS TO THIS PROJECT AFTER THE DATE OF THIS DRAWING WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE ARCHITECT. ANY REUSE, ALTERATION OR REPRODUCTION OF THIS DRAWING FOR ANY PURPOSE OTHER THAN THAT AUTHORIZED BY THE ARCHITECT IS FORBIDDEN AND MAY BE CONTRARY TO THE LAW.

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 37166 ENGINEER ERIC KESTERSON
12/04/2025

GROCERY POWER PLANS

SHEET: GE2

ERIC S. KESTERSON

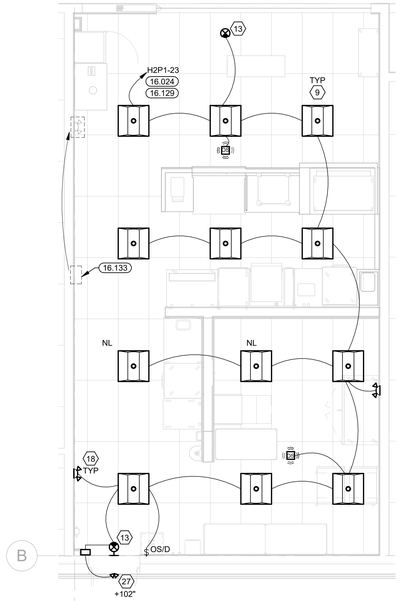
DUNKIN' LIGHT FIXTURE SCHEDULE

"OW" FIXTURES AND LAMPS ARE FURNISHED BY THE OWNER FOR INSTALLATION BY THE CONTRACTOR. "GC" FIXTURES AND LAMPS ARE FURNISHED AND INSTALLED BY THE CONTRACTOR.

TYPE	SUPPLIED BY	DESCRIPTION	MANUFACTURER	MODEL	VOLTAGE	INPUT VA	COLOR TEMP	LIGHT SOURCE	LAMP QTY	MOUNTING
9	OW	2' x 2' VOLUMETRIC TROFFER	ACUITY BRANDS LIGHTING INC	2BLT2 40L ADSM GZ10 LP840	120/277	32 VA	4000K	INTEGRAL LED	12	RECESSED
13	OW	EXIT SIGN	LITHONIA LIGHTING	LQM S W RG MVOLT EL SD	120/277	3 VA	4000K	INTEGRAL LED	2	STEM / CEILING / WALL
18	OW	EMERGENCY LIGHT	DUAL-LITE	EVHC6IDP-WM	120/277	3 VA	-	INTEGRAL LED	2	WALL / CEILING
27	OW	EMERGENCY LIGHT - REMOTE HEADS	DUAL-LITE	EVHC6IDP-0-WM W/ EVODW	120/277	3 VA	-	INTEGRAL LED	1	WALL

ADD T-BAR AND CEILING TILE TO PATCH CEILING WHERE 2X4 LIGHT FIXTURES ARE REPLACED BY 2X2 LIGHT FIXTURES. NEW 2X2 LIGHT FIXTURES SHALL MAINTAIN CONSISTENT SPACING (E.G., ALL 2X2 INSTALLED IN PLAN NORTH END WHERE 2X4'S ARE BEING REPLACED.

5



1 DUNKIN' LIGHTING PLAN
1/4" = 1'-0"

OCCUPANCY SENSOR NOTES

12.17.21

1. OCCUPANCY SENSORS IN RESTROOMS SHALL BE PROGRAMMED FOR AUTOMATIC ON AND MAXIMUM AVAILABLE TIME DELAY SETTINGS.
2. OCCUPANCY SENSORS IN DELI, PRODUCE, AND BAKERY PREP AREAS SHALL BE PROGRAMMED WITH MAXIMUM AVAILABLE TIME DELAY SETTINGS.
3. OCCUPANCY SENSORS IN WALK-IN COOLERS/FREEZERS SHALL BE LOW TEMPERATURE RATED AND CEILING MOUNTED WITH INCLUDED BRACKET. ADJUST AIMING FOR MAXIMUM COVERAGE, 10 MINUTE TIME DELAY.
4. ALL OTHER OCCUPANCY SENSORS SHALL BE PROGRAMMED WITH THE MINIMUM AVAILABLE TIME DELAY SETTING UNLESS NOTED OTHERWISE.
5. ALL SINGLE-POLE OCCUPANCY SENSORS SHALL BE PROGRAMMED FOR MANUAL ON LIGHTING CONTROL UNLESS NOTED OTHERWISE.
6. ALL BI-LEVEL OCCUPANCY SENSORS SHALL BE PROGRAMMED FOR AUTOMATIC ON LIGHTING CONTROL FOR 50% OF FIXTURES AND WITH MANUAL ON MODE FOR REMAINING FIXTURES.
7. WHERE TWO OCCUPANCY SENSORS ARE SHOWN IN THE SAME LOCATION WIRE FOR PARALLEL OPERATION.

KEYNOTES

16.024	CONNECT CIRCUIT TO DUAL TAP CIRCUIT BREAKER INDICATED. CONNECT CIRCUIT CONTAINING NIGHT/EMERGENCY LIGHTING TO UNSWITCHED TERMINATION OF DUAL TAP CIRCUIT BREAKER.
16.129	CONNECT TO EXISTING CIRCUIT PREVIOUSLY SERVING AREA LIGHTING THAT WAS REMOVED. MAINTAIN EXISTING CIRCUIT CONTROL UNLESS NOTED OTHERWISE. PROVIDE CONSTANT HOT FOR EMERGENCY EXIT AND LOCALLY CONTROLLED LIGHT FIXTURES.
16.133	EXISTING LIGHT FIXTURES TO BE RELOCATED TO NEW LOCATION AS SHOWN.

GENERAL LIGHTING NOTES

12.17.21

1. EXIT SIGN MOUNTING.
   A. WALL FIXTURE: CENTER 12" ABOVE DOOR OPENING.
   B. CEILING FIXTURE: ON CEILING OR AT HEIGHT SPECIFIED ON DRAWINGS.
   C. PENDANT FIXTURE: MATCH HEIGHT OF EXISTING PENDANT MOUNTED EXIT SIGNS. IF STORE DOES NOT HAVE PENDANT MOUNTED EXIT SIGNS, THEN PENDANT MOUNT SIGN 24" BELOW BOTTOM OF BAR JOIST.
   D. VERIFY MOUNTING HEIGHT WITH AHJ.
   E. COORDINATE LOCATIONS OF EXIT SIGNS TO ENSURE STORE SIGNAGE DOES NOT OBSTRUCT THEIR VIEW.
   F. THE USE OF TRITIUM BASED RADIOACTIVE EXIT SIGNAGE IS PROHIBITED.
2. EMERGENCY LIGHT FIXTURE INSTALLATION
   A. EXIT SIGNS, EMERGENCY LIGHTS AND NIGHT LIGHTS SHALL NOT BE SWITCHED.
   B. MOUNTING
      a. WALL FIXTURE: 12" BELOW FINISHED CEILING OR +10'-0" IN AREAS OF EXPOSED STRUCTURE, UNLESS NOTED OTHERWISE.
      b. PENDANT FIXTURE: BOTTOM CHORD OF BAR JOIST OR AT HEIGHT SPECIFIED ON DRAWINGS.
      c. REMOTE HEAD FIXTURE: HEADS CENTERED ABOVE DOOR OPENING +9'-0", UNLESS NOTED OTHERWISE AND BATTERY PACK MOUNTED ON INTERIOR SIDE OF WALL 12" BELOW FINISHED CEILING OR AT BAR JOIST IN AREAS OF EXPOSED STRUCTURE.
   C. REFER TO MANUFACTURER'S WRITTEN INSTRUCTIONS. ALLOW BATTERY TO CHARGE CONTINUOUSLY FOR A MINIMUM OF 24 HOURS BEFORE INITIAL TESTING.
   D. AFTER EMERGENCY LIGHT HAS BEEN POWERED DO NOT TURN OFF FOR EXTENDED PERIODS OF TIME.
3. IN AREAS OF OPEN STRUCTURE, MOUNT STRIP FIXTURE TO BOTTOM CHORD OF BAR JOIST, UNLESS NOTED OTHERWISE.
4. FIXTURES DENOTED WITH "ABJ" ARE TO BE FASTENED ON UNISTRUT CHANNELS MOUNTED TO THE BOTTOM SIDE OF THE TOP CHORD OF BAR JOISTS. LOCATE THE FIXTURES RUNNING PERPENDICULAR TO BAR JOISTS WITHIN BAR JOISTS WEBBING SPACES. DO NOT FASTEN FIXTURE OR UNISTRUT CHANNELS TO ROOF DECK.
5. CONTRACTOR SHALL PROVIDE ALL UNISTRUT AND HARDWARE NECESSARY TO SPAN BAR JOIST AS REQUIRED FOR A COMPLETE INSTALLATION OF THE LIGHTING SYSTEM.
6. PROVIDE SEPARATE BOXES FOR GANGED SWITCHES ON SEPARATE BRANCH CIRCUITS.
7. CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE INSTALLATION OF THE LIGHTING SYSTEM AS INDICATED ON PLANS AND/OR AS MODIFIED TO ACCOMMODATE EXISTING OBSTRUCTIONS. IDENTIFY CONFLICTS PRIOR TO ROUGH-IN. WHERE CONFLICTS WITH EXISTING UTILITIES OCCUR, ADJUST FIXTURE LOCATION AS REQUIRED. FIXTURES SHALL BE INSTALLED AS NEAR AS POSSIBLE TO LOCATIONS INDICATED ON PLANS

EXISTING LIGHTING FIXTURES NOT SHOWN ARE EXISTING TO REMAIN AND ARE NOT AFFECTED BY THE SCOPE OF WORK ON THIS PROJECT. THIS INCLUDES ALL GENERAL LIGHTING, EGRESS LIGHTING AND EXIT LIGHTING.

DESIGN IS BASED ON ASBUILT CONDITIONS. CONTRACTOR SHALL COORDINATE INSTALLATION OF NEW LIGHTING FIXTURES TO AVOID EXISTING FIRE SPRINKLERS AND EXISTING MECHANICAL EQUIPMENT IN THE CEILING GRID.

ADD SHEET TO SET
1

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NORTH CAROLINA PROFESSIONAL SEAL 37166 ENGINEER ERIC KESTERSON

12/04/2025

DUNKIN ELECTRICAL LIGHTING PLAN

SHEET:
DDE1

ERIC S. KESTERSON

ELECTRICAL SYMBOLS LEGEND

(SYMBOLS APPLY ONLY WHEN USED ON DRAWINGS)

SYMBOL	DESCRIPTION
	LIGHT FIXTURE (WALL MOUNTED/CEILING MOUNTED)
	LIGHT FIXTURE
	LIGHT FIXTURE, NIGHT LIGHT
	VOLUMETRIC LIGHT FIXTURE
	EXIT FIXTURE (WALL MOUNTED/CEILING MOUNTED)
	EMERGENCY LIGHT (WALL MOUNTED/CEILING MOUNTED)
	EMERGENCY LIGHT REMOTE HEADS (WALL MOUNTED/CEILING MOUNTED)
$	SINGLE POLE SWITCH
$3	3-WAY SWITCH
$4	4-WAY SWITCH
$K	KEYED SWITCH
$D	DIMMER SWITCH
$VS	VARIABLE SPEED SWITCH
$M	MANUAL MOTOR SWITCH
$OS	SINGLE POLE OCCUPANCY SENSOR SWITCH
$OS2	DOUBLE POLE OCCUPANCY SENSOR SWITCH
$OS/D	OCCUPANCY SENSOR SWITCH WITH DIMMING CAPABILITIES
OS	CEILING MOUNTED OCCUPANCY SENSOR SWITCH, FOUR-DIRECTION SENSING
OS	WALL MOUNTED OCCUPANCY SENSOR SWITCH, ONE-DIRECTION SENSING
	RECEPTACLE, DUPLEX
	RECEPTACLE, DUPLEX, MOUNTED HORIZONTALLY
	RECEPTACLE, GFI
	RECEPTACLE, DUPLEX FLUSH FLOOR
	RECEPTACLE, DUPLEX ISOLATED GROUND FLUSH FLOOR
	RECEPTACLE, DOUBLE DUPLEX
	RECEPTACLE, DUPLEX ISOLATED GROUND
	RECEPTACLE, DOUBLE DUPLEX, ISOLATED GROUND
	RECEPTACLE, SIMPLEX TWIST LOCK, L5-15R, UNO
	RECEPTACLE, SIMPLEX TWIST LOCK, ISOLATED GROUND, L5-15R, UNO
	RECEPTACLE, DUPLEX TWIST LOCK, L5-15R, UNO
	RECEPTACLE, DUPLEX TWIST LOCK, ISOLATED GROUND, L5-15R, UNO
	RECEPTACLE, SPECIAL
	RECEPTACLE, SIMPLEX
	RECEPTACLE, PLUG-MOLD
J	JUNCTION BOX (WALL MOUNTED/CEILING MOUNTED)
T	THERMOSTAT (WALL MOUNTED/CEILING MOUNTED)
A	ALARM JUNCTION BOX, (WALL MOUNTED/CEILING MOUNTED)
R	ALARM JUNCTION BOX, FOR REMOTE TEST/RESET (WALL MOUNTED/CEILING MOUNTED)
	EQUIPMENT CONNECTION POINT (PROVIDED WITH EQUIPMENT)
	NON-FUSED DISCONNECT
	FUSED DISCONNECT
	CIRCUIT, CONCEALED IN WALLS OR CEILING, E INDICATES EXISTING WIRING
	CIRCUIT, CONCEALED IN SLAB FLOOR, E INDICATES EXISTING WIRING
	CIRCUIT, EXPOSED, E INDICATES EXISTING WIRING
	CONDUIT SLEEVE
	FLUSH MOUNTED PANELBOARD
	SURFACE MOUNTED PANELBOARD
	MANUFACTURED WIRING SYSTEM
	TELEPHONE / DATA BOX FOR ISD
	LOW VOLTAGE CABLE BOX FOR OTHER
	TELEPHONE, FLUSH FLOOR
	MOTOR
	TELEPOWER POLE
PB	PUSH BUTTON
B	BUZZER
SS	SAIL SWITCH JUNCTION BOX
	HORN / STROBE
DH	DOOR HOLD OPEN

ABBREVIATIONS

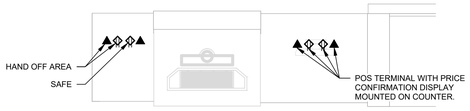
CF	CEILING FAN
CO	CHECK OUT
CW	CASH/WRAP
EF	EXHAUST FAN
G	GROUND
GFI	GROUND FAULT CIRCUIT INTERRUPTER
IG	ISOLATED GROUND
REC	REFRIGERATION ELECTRICAL CONTRACTOR
RC	REFRIGERATION CONTRACTOR
RH	RADIANT HEATER
SC	SECURITY CAMERA
TR	TAMPER RESISTANT
UH	UNIT HEATER
WH	WATER HEATER
WP	WEATHER PROOF COVERPLATE
WR	WEATHER RESISTANT RECEPTACLE

DUNKIN' KITCHEN DEVICE SCHEDULE

NUMBER	DESCRIPTION	MANUFACTURER	MODEL	VOLT/PHASE	AMPS	TERMINATION	MTG. HT.	NOTES
COFFEE EQUIPMENT SCHEDULE								
82G	BAKERY RACK	VULCAN	1022648-00U0164	120/1	1.00 A	GFI DUPLEX, NEMA: 5-15R	24"	K
96.4	ESPRESSO MACHINE	EVERSYS	SE-EC4BDUNK	208/1	24.00 A	WP RECEPTACLE, NEMA: L6-30R	24"	K
101C	DAIRY DISPENSER	SILVER KING	SKBD3LS	120/1	1.80 A	GFI DUPLEX, NEMA: 5-15R	24"	K
101L	SWEETENER DISPENSER	SURE SHOT	AC2-GP	120/1	0.60 A	GFI DUPLEX, NEMA: 5-15R	24"	K
101Q	MULTI HOPPER GRINDER	BUNN	MHG	120/1	11.00 A	GFI DUPLEX, NEMA: 5-15R	24"	K
116.2A	BLENDER	VITAMIX	16178	120/1	15.00 A	GFI DUPLEX, NEMA: 5-20R	24"	K
122A	UNDERCOUNTER REFRIGERATOR	TURBO AIR	MUR-28-N-1C	120/1	2.20 A	GFI DUPLEX, NEMA: 5-15R	24"	K
124E	BREWER	BUNN	SH SRVR	120/240/1	16.80 A	WP, RECEPTACLE, NEMA L14-20R	24"	K
124G	SOFT HEAT STAND - TWIN	BUNN	2SH	120/1	1.80 A	GFI DUPLEX, NEMA: 5-15R	24"	K
200A	ICE COFFEE BREWER	BUNN	IC3	120/240/1	19.50 A	WP, RECEPTACLE, NEMA L14-30R	24"	K
265	4-TAP DISPENSER	MICROMATIC	MMDD4TAPV2	120/1	11.10 A	GFI DUPLEX, NEMA: 5-15R	24"	K
416	ICE MACHINE	SCOTSMAN	MC0522SA-1 KPCORD01	120/1	13.50 A	GFI DUPLEX, NEMA: 5-20R	24"	K
443	REFRIGERATOR REACH-IN	TRUE FOOD SERVICE EQUIPMENT INC.	T-49-HC	120/1	2.80 A	GFI DUPLEX, NEMA: 5-15R	44"	K

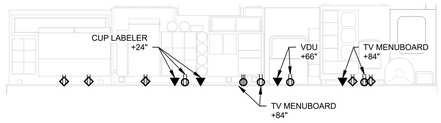
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K. CORD AND PLUG FURNISHED WITH EQUIPMENT.
L. FAN CONNECTED THROUGH 120V RELAY, 10A MAX

THIS VIEW IS FOR REFERENCE ONLY. KIOSK DEVICES ARE NOT PART OF THE CONTRACTOR SCOPE OF WORK. DATA DEVICES IN KIOSK DO NOT CONNECTION TO THE WALMART NETWORK.



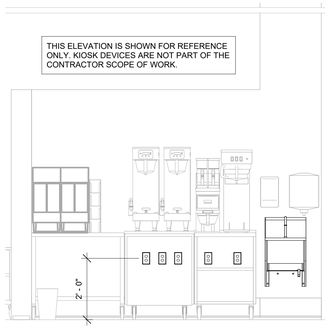
5 DUNKIN' POS POWER PLAN
1/2" = 1'-0"

THIS VIEW IS FOR REFERENCE ONLY. KIOSK DEVICES ARE NOT PART OF THE CONTRACTOR SCOPE OF WORK. DATA DEVICES IN KIOSK DO NOT CONNECTION TO THE WALMART NETWORK.



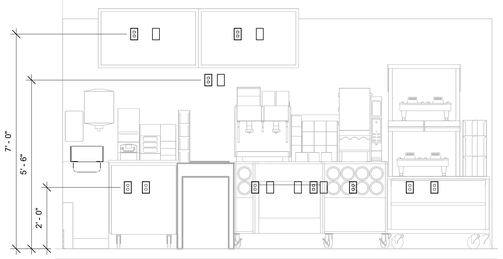
4 DUNKIN' MENU POWER PLAN
1/2" = 1'-0"

THIS ELEVATION IS SHOWN FOR REFERENCE ONLY. KIOSK DEVICES ARE NOT PART OF THE CONTRACTOR SCOPE OF WORK.



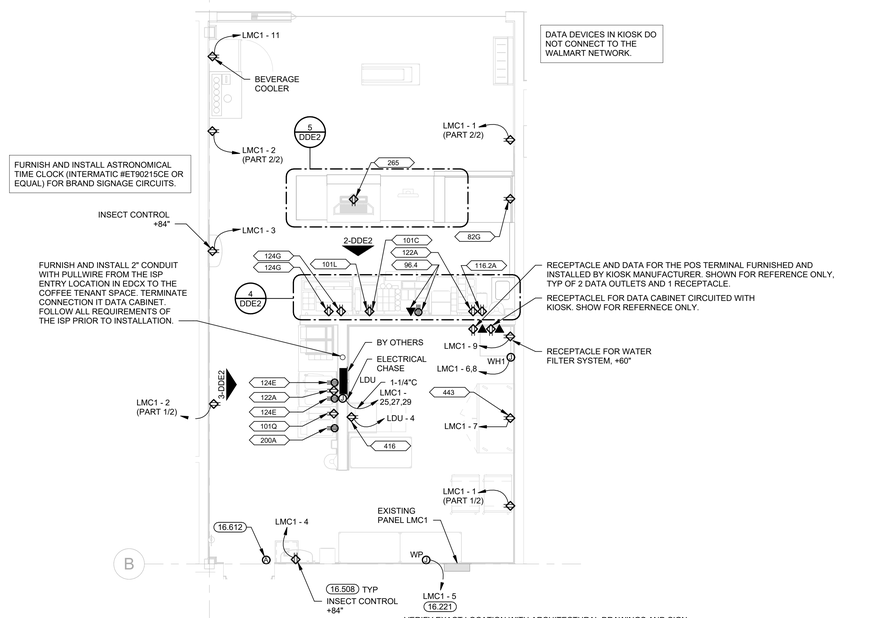
3 DUNKIN' POWER ELEVATION
1/2" = 1'-0"

THIS ELEVATION IS SHOWN FOR REFERENCE ONLY. KIOSK DEVICES ARE NOT PART OF THE CONTRACTOR SCOPE OF WORK.



2 DUNKIN POWER ELEVATION
1/2" = 1'-0"

5



VERIFY EXACT LOCATION WITH ARCHITECTURAL DRAWINGS AND SIGN VENDOR PRIOR TO ELECTRICAL ROUGH-IN. COORDINATE ALL PENETRATIONS AND FINAL CONNECTIONS TO SIGNAGE AND REMOTE POWER DEVICES. SIGN SHALL BE CONTROLLED VIA TIME CLOCK.

1 DUNKIN' POWER PLAN
1/4" = 1'-0"

KEYNOTES

16.221 SURFACE MOUNT JUNCTION BOX WITH BLANK COVER PLATE 6" ABOVE CEILING FOR SIGNAGE.
16.508 INSECT CONTROL: PROVIDE BROWN DEVICE AND MATCHING COVERPLATE.
16.612 PROVIDE RECESSED ALARM JUNCTION BOX (WITH VERTICAL RACEWAY) MOUNTED 2" ABOVE AND 8" IN FROM STRIKE SIDE OF DOOR FRAME.

CONTRACTOR NOTE:
COORDINATE DISCONNECTION AND RECONNECTION OF EXISTING ELECTRICAL EQUIPMENT AS REQUIRED FOR INSTALLATION OF NEW WALL AND FLOOR FINISHES. FURNISH AND INSTALL EXTENSION DEVICES AS REQUIRED. COORDINATE ALL WORK WITH THE GENERAL CONTRACTOR PRIOR TO PERFORMING ANY WORK.

ELECTRICAL CONTRACTOR SHALL REPLACE ALL NON-WHITE RECEPTACLES (EXCEPT ORANGE RECEPTACLES) WITH WHITE RECEPTACLES AND ALL NON-STAINLESS STEEL COVERPLATES WITH STAINLESS STEEL, INCLUDING BLANKS.

GENERAL NOTES

01:26:24

1. FURNISH AND INSTALL ALL MATERIALS, EQUIPMENT, AND LABOR, FOR A COMPLETE INSTALLATION IN ALL RESPECTS, READY FOR INTENDED USE AND IN STRICT ACCORDANCE WITH NEC, NESC, STATE, AND LOCAL CODES, AND MANUFACTURER'S RECOMMENDATIONS. PAY ALL NECESSARY FEES AND PERMITS.
   A. NO CIRCUITRY SHALL BE ALLOWED TO BE ROUTED ACROSS THE ROOF OR THE EXTERIOR SIDE OF THE EXTERIOR WALLS.
   B. ALL EQUIPMENT SHALL BE UL LISTED WHERE APPLICABLE.
   C. ARRANGE ALL WORK TO MINIMIZE DISRUPTIONS TO STORE OPERATIONS. COORDINATE ALL DISRUPTIONS WITH WALMART CONSTRUCTION MANAGER AND STORE MANAGER.
   D. CONTRACTOR SHALL VERIFY ALL WALL FINISH THICKNESS BEFORE INSTALLING BOXES. FURNISH AND INSTALL EXTENDED BOXES OR BOX EXTENDERS WHERE REQUIRED.
   E. CONTRACTOR SHALL VERIFY THAT ALL AFFECTED PANELBOARDS HAVE CIRCUIT BREAKER KNOCKOUTS PROPERLY COVERED AND THAT ALL TRIM IS IN GOOD CONDITION, ALLOWING NO ACCESS TO LIVE PARTS.
2. PROVIDE SEALS AT RACEWAY PENETRATIONS AS FOLLOWS:
   A. FIRE RATED WALLS: SEAL PER SPECIFICATIONS FOR FIRE STOPPING.
   B. NEUTRALIZATION AREA: SEAL PER MECHANICAL DETAIL.
   C. FREEZER/COOLER BOXES: SEAL WITH EXPANDING FOAM SEALANT.
   D. EXTERIOR: REFER TO ARCHITECTURAL DOCUMENTS FOR SEALING REQUIREMENTS AT ALL EXTERIOR MOUNTED DEVICES, FIXTURES, ENCLOSURES, AND RACEWAY PENETRATIONS.
3. PROVIDE A SEPARATE EQUIPMENT GROUNDING CONDUCTOR (SIZE PER NEC) IN PVC TYPE CONDUIT; POWER AND LIGHTING CIRCUITS, ISOLATED GROUND CIRCUITS, OR AS SHOWN ON PLANS. CONDUIT SHALL BE SIZED PER NEC BASED ON THWN 600 VOLT COPPER SINGLE CONDUCTORS, PLUS THE EQUIPMENT GROUNDING CONDUCTOR.
4. WIRING DEVICES: DEVICE MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO CENTER OF OUTLET BOX UNLESS NOTED OTHERWISE ON PLANS. COORDINATE THE STANDARD MOUNTING HEIGHTS WITH MASONRY:
   A. SWITCHES +44"
   B. RECEPTACLES +20"
   C. VOICE/DATA +20"
5. WIRING SHALL INCLUDE FINAL CONNECTION TO ALL EQUIPMENT IN CONFORMANCE WITH EQUIPMENT SUPPLIER WIRING DIAGRAMS.
6. CONTRACTOR IS RESPONSIBLE FOR PROVIDING AN UPDATED AND COMPLETE TYPEWRITTEN CIRCUIT IDENTIFICATION SCHEDULE FOR EVERY PANELBOARD AFFECTED BY THIS PROJECT.
7. NEW BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICES INSTALLED IN EXISTING PANELBOARDS OR DISTRIBUTION BOARDS SHALL MATCH THE TYPE AND AIC RATING OF EXISTING OVERCURRENT PROTECTIVE DEVICES.
8. BRANCH CIRCUIT CONDUCTORS SHALL BE MINIMUM #12 AWG UNLESS NOTED OTHERWISE IN SCHEDULES. WHERE 20A BRANCH CIRCUITS HAVE #8 AND LARGER WIRE SPECIFIED, #10 AWG WIRE SHALL BE USED FOR THE FINAL CONNECTION (15-FT MAXIMUM).
9. WHERE BRANCH CIRCUITS ARE GROUPED, SIZE CONDUIT AND DERATE CURRENT CARRYING CONDUCTORS PER NEC.
10. PROVIDE UL LISTED HANDLE TIES ON ALL MULTIWIRE BRANCH CIRCUITS PER NEC REQUIREMENTS.
11. SUPPORTS FROM STRUCTURE: NO ATTACHMENT OF ANY TYPE SHALL BE MADE TO BRIDGING OR JOIST WEB MEMBERS. UTILIZE ONLY THE TOP AND BOTTOM CHORDS FOR SUPPORTING THE ELECTRICAL SYSTEM INSTALLATIONS.
12. DEVICES SHOWN ON COOLER/FREEZER PANELS SHALL BE SURFACE MOUNTED UNLESS NOTED OTHERWISE. SEAL DEVICES TO COOLER/FREEZER PANELS WITH SILICONE SEALANT.
13. SURFACE MOUNTED CONDUIT ON COOLER/FREEZER PANELS OR IN FOOD PREP AREAS SHALL BE INSTALLED WITH GALVANIZED 1/2" STANDOFF CONDUIT HANGERS TO ALLOW FOR CLEANING.
14. ONLY FEEDER CIRCUITS NOTED ON THE ONE LINE DIAGRAM AND BRANCH CIRCUITS NOTED BY LEGEND SHALL BE INSTALLED UNDER SLAB. PROVIDE EXTERIOR COATED GRC BENDS ON ALL CONDUIT RUNS THAT HAVE 45 DEGREE BENDS OR GREATER. REFER TO SPECIFICATION SECTION 16.100 FOR UNDER SLAB.
15. SEISMIC ZONE REQUIREMENTS: PROVIDE EXPANSION COUPLINGS AND BRACING FOR ELECTRICAL EQUIPMENT AS REQUIRED BY LOCAL CODES.
16. EXISTING ELECTRICAL AND ALARM:
   A. WHERE DEMOLITION OR NEW CONSTRUCTION INTERRUPTS EXISTING ELECTRICAL CIRCUITS FEEDING EXISTING EQUIPMENT, DEVICES, OR LIGHTING TO REMAIN, BUT NOT SHOWN ON DRAWINGS, PROVIDE LABOR AND MATERIALS TO REWORK CIRCUITRY, AS REQUIRED, TO MAINTAIN EXISTING OPERATION.
   B. IF DEMOLITION OR NEW CONSTRUCTION WILL DISRUPT EXISTING UNDERGROUND SERVICES (ELECTRICAL, TELEPHONE, PARKING LOT LIGHTING CIRCUITRY, ETC.) PROVIDE ALL MATERIALS AND LABOR AS REQUIRED TO REROUTE, SLEEVE, OR OTHERWISE REWORK THESE SERVICES TO MAINTAIN THEIR EXISTING OPERATION.
   C. EXERCISE CAUTION AROUND ALARM AND SECURITY CABLES DURING DEMOLITION AND CONSTRUCTION. PROTECT ALARM AND SECURITY CABLES FROM ACCIDENTAL DAMAGE SO THAT SYSTEMS REMAIN OPERATIONAL AT ALL TIMES.
   D. DISPOSE OF ALL REMOVED MATERIALS, UNLESS OTHERWISE NOTED.
17. EXISTING ELECTRICAL DEMOLITION:
   A. GENERAL: REMOVE OR RELOCATE EXISTING ELECTRICAL EQUIPMENT, CONDUIT AND CONDUCTORS AS INDICATED ON THE DRAWINGS, OR ONLY AS REQUIRED BY DEMOLITION. REMOVE ALL PANELBOARDS, DISCONNECT SWITCHES, BOXES, RELAYS, TIME SWITCHES, LIGHTS, DEVICES, ETC., WHICH WILL NOT BE REUSED.
   B. SALES FLOOR: REMOVE UNUSED POWER DROP CONDUIT, CONDUCTORS AND RELATED DEVICES SERVING SALES AREA GONDOLAS BEING RELOCATED OR REMOVED. EXISTING CONDUIT AND CONDUCTORS MAY BE REUSED FOR NEW POWER DROPS WHERE SIZE, RATING, AND CONDITION MEET REQUIREMENTS INDICATED ON PLANS AND ALL U.L. RATINGS. REMOVE ALL UNUSED CONDUIT AND CONDUCTORS BACK TO POINT OF ORIGIN WHENEVER FEASIBLE. IF CIRCUIT IS NOT REUSED, REMOVE CIRCUIT BREAKER AND REPLACE WITH FILLER PLATE. EXCEPTION: DISTRIBUTION AND POWER SWITCH BREAKERS SHALL BE ETR AS "SPARE". PROVIDE HANDLE LOCK OFF DEVICE TO LOCK "SPARE" CIRCUIT BREAKER IN THE "OFF" POSITION. UPDATE TYPEWRITTEN CIRCUIT IDENTIFICATION SCHEDULE AS "SPACE" OR "SPARE".
   C. CONDUIT AND WIRING TO BE ABANDONED IN CEILING SPACES AND OTHER NON-PUBLIC AREAS (I.E., THROUGH STOCKROOM AREA): CUT WIRING LOOSE AND REMOVE FROM RACEWAY(S), LEAVING RACEWAY(S) IN PLACE. CONDUIT TO BE ABANDONED IN WALLS OR FLOORS SHALL BE REMOVED BACK TO FINISHED SURFACE AND CAPPED INSIDE. REPAIR SURFACE(S) TO MATCH ADJACENT.
   D. ALL CIRCUIT BREAKERS SERVING BRANCH CIRCUITS TO BE REMOVED SHALL ALSO BE REMOVED. REMOVE CIRCUIT BREAKER AND REPLACE WITH FILLER PLATE. EXCEPTION: DISTRIBUTION AND POWER SWITCH BREAKERS SHALL BE ETR AS "SPARE". PROVIDE HANDLE LOCK OFF DEVICE TO LOCK "SPARE" CIRCUIT BREAKER IN THE "OFF" POSITION. UPDATE TYPEWRITTEN CIRCUIT IDENTIFICATION SCHEDULE AS "SPACE" OR "SPARE".
   E. DEMOLISHED FLUORESCENT LIGHT FIXTURES: REFER TO SELECTIVE SITE DEMOLITION SPECIFICATION FOR DISPOSAL OF LIGHT FIXTURE.
   F. BUILDING COMPONENTS ABANDONED BY THE SCOPE OF WORK SHALL BE SECURED TO PREVENT FALLING, LOOSENING, OR CREATING DAMAGE OF ANY KIND IN THE FUTURE.
18. DATA AND PHONE CONDUIT INSTALLATION MILESTONE DATE: ALL RACEWAY AND CONDUIT SLEEVES FOR DATA AND PHONE CABLING TO BE INSTALLED 3 WEEKS PRIOR TO CONTRACT SUBSTANTIAL COMPLETION DATE.
19. ETHERNET CABLE:
   A. FURNISH AND INSTALL JUNCTION BOXES AS SHOWN ON PLANS. PROVIDE CONDUIT AS REQUIRED BY LOCAL CODES AND/OR ORDINANCES.
   B. ETHERNET CABLE IS FURNISHED BY OTHERS.
   C. ELECTRICAL CONTRACTOR SHALL INSTALL CABLE IN POWER POLES.
   D. ELECTRICAL CONTRACTOR SHALL INSTALL OTHER CABLE AS DIRECTED BY WALMART CONSTRUCTION MANAGER.

4 ADD SHEET TO SET

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELF WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

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EXPIRES 6/30/2026

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ISSUE BLOCK

1	CCD#1	12/04/25

CHECKED BY:	Checker
DRAWN BY:	RK
PROTO CYCLE:	07/26/24
DOCUMENT DATE:	01/08/25

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 37166 ENGINEER ERIC S. KESTERSON

12/04/2025

DUNKIN ELECTRICAL POWER PLAN & ELEVATIONS

SHEET: DDE2

ERIC S KESTERSON

PANELBOARD: LMC1 (ETR)

BUS AMPS: 100A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

MOUNTING: RECESSED
SERVES: MONEY CENTER
LOCATION: MONEY CENTER

CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	C	DESCRIPTION	CKT NO.
1	**RECEPTACLES (19) [R]**	**360**			12	20	1	1	20	12	**360**			**RECEPTACLES (19) [R]**	2
3	**INSECT CTRL (19) [R]**		**360**		12	20	1	1	20	12		**360**		**INSECT CTRL (19) [R]**	4
5	**BRAND SIGNAGE (14,19) [S]**			**1,000**	12	20	1	2	40	8			**3,000**	**WH1 (2,29) [U]**	6
7	**443 REFRIGER. REACH IN (19) [F]**	**340**			12	20	1				**3,000**				8
9	**WATER FILTER (19) [Z]**		**180**		12	20	1	1						**SPACE (11)**	10
11	**BEVERAGE COOLER (19) [F]**			**530**	12	20	1	1						**SPACE (11)**	12
13	PEPSI PLUGS #1 (13) [E]	500			EX	20	1	1						**SPACE (11)**	14
15	PEPSI PLUGS #2 (13) [E]		500		EX	20	1	1						**SPACE (11)**	16
17	PEPSI PLUGS #3 (13) [E]			500	EX	20	1	1						**SPACE (11)**	18
19	PEPSI PLUGS #4 (13) [E]	500			EX	20	1	1						**SPACE (11)**	20
21	**SPACE (11)**						1	1						SPACE	22
23	SPACE						1	1						SPACE	24
25		**9,186**						1						SPACE	26
27	**PNLBD LDU (8) ***		**9,224**			**100**	**3**	1						SPACE	28
29				**9,110**				1						SPACE	30
SUBTOTAL		10,886	10,264	11,140							3,360	360	3,000	SUBTOTAL	

TOTAL PHASE A - VA	14,246	LOAD		CONN. VA	DF	LOAD		CONN. VA	DF
AMPS	119	COOLING	[C]		1.00	REFRIG	[F]	1,398	1.00
TOTAL PHASE B - VA	10,624	HEATING	[H]		0	SIGNAGE	[S]	1,360	1.25
AMPS	89	LIGHTING	[L]		1.25	KITCHEN	[K]	22,972	0.65
TOTAL PHASE C - VA	14,140	RECEPTACLES	[R]	3,060	1.0/.5	EXISTING	[E]	2,000	1.00
AMPS	118	MOTORS	[M]		1.00	LRG MOTOR			1.25
TOTAL PNLBD - VA	39,010	SUPP HEAT	[U]	6,000	1.00	SHOW WND [W]			1.25
AMPS	108	MISC EQUIP	[Z]	2,220	1.00	LTG TRACK			1.00

TOTAL DEMAND
31,310 VA
87 A

PANELBOARD NOTES

*PROVIDE NEW 100A CIRCUIT BREAKER MODEL #QOB3100

PNLBD: LDU (BY OTHERS)

BUS AMPS: 100A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: **LMC1**
AIC RATING: 10000
MOUNTING: RECESSED
SERVES: COFFEE TENANT
LOCATION: COFFEE TENANT

LINE-SIDE LUGS: MECHANICAL
EQUIPMENT GROUND BUS

CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	C	DESCRIPTION	CKT NO.
1	**POS RECEPTS [Z]**	**720**			12	20	1	1	20	12	**1,332**			**265 4-TAP DISPENSER [K]**	2
3	**POS RECEPTS [Z]**		**720**		12	20	1	1	20	12		**1,620**		**416 ICE MACHINE [K]**	4
5	**HAND OFF RECEPT [R]**			**720**	12	20	1	1	20	12			**120**	**82G BAKERY RACK [K]**	6
7	**HAND OFF RECEPT [R]**	**720**			12	20	1	1	20	12	**264**			**122A UC REFRIGERATOR [F]**	8
9	**DIGITAL MENU BOARD [S]**		**360**		12	20	1	1	20	12		**1,800**		**116.2A BLENDER [K]**	10
11	**VDU EQUIPMENT RECEPT [R]**			**180**	12	20	1						**2,500**	**96.4 ESPRESSO MACHINE [K]**	12
13	**CUP LABEL PRINTER RECEPT [Z]**	**360**			12	20	1	2	30	10	**2,500**				14
15	**DATA COMMUNICATION CAB [Z]**		**240**		12	20	1	1	20	12		**220**		**101C DAIRY DISPENSER [K]**	16
17	**SPACE**						1	1	20	12			**60**	**101L SWEETENER DISPENSER [K]**	18
19	**SPACE**						1	1	20	12	**220**			**124G 2SH INF HEAT STAND [K]**	20
21	**SPACE**						1	1	20	12		**220**		**124G 2SH INF HEAT STAND [K]**	22
23	**SPACE**						1	2	25	10			**1,750**	**124E ICE TWIN SH [K]**	24
25	**SPACE**						1				**1,750**				26
27	**SPACE**						1	2	25	10		**1,750**		**124E ICE TWIN SH [K]**	28
29	**SPACE**						1						**1,750**		30
31	**SPACE**						1	1	20	12	**1,320**			**101Q MHG SST [K]**	32
33	**SPACE**						1	1	20	12		**264**		**122A REFRIGERATOR [F]**	34
35	**SPACE**						1	1						**SPACE**	36
37	**SPACE**						1	1						**SPACE**	38
39	**SPACE**						1	2	25	10		**2,030**		**200A BREWER [K]**	40
41	**SPACE**						1						**2,030**		42
SUBTOTAL		1,800	1,320	900							7,386	7,904	8,210	SUBTOTAL	

TOTAL PHASE A - VA	9,186	LOAD		CONN. VA	DF	LOAD		CONN. VA	DF
AMPS	77	COOLING	[C]		1.00	REFRIG	[F]	528	1.00
TOTAL PHASE B - VA	9,224	HEATING	[H]		0	SIGNAGE	[S]	360	1.25
AMPS	77	LIGHTING	[L]		1.25	KITCHEN	[K]	22,972	0.65
TOTAL PHASE C - VA	9,110	RECEPTACLES	[R]	1,620	1.0/.5	EXISTING	[E]		1.00
AMPS	76	MOTORS	[M]		1.00	LRG MOTOR			1.25
TOTAL PNLBD - VA	27,520	SUPP HEAT	[U]		1.00	SHOW WND [W]			1.25
AMPS	76	MISC EQUIP	[Z]	2,040	1.00	LTG TRACK			1.00

TOTAL DEMAND
19,570 VA
54 A

PANELBOARD NOTES ()

01.26.24

1. TERMINATE GROUND ON ISOLATED GROUND BUS.
2. INSTALL LOCKING DEVICE (LOCK-OFF FOR MAINTENANCE). LOCKING DEVICE SHALL BE UL LISTED. MANUFACTURER SHALL MATCH EXISTING PANELBOARD MANUFACTURER.
3. INSTALL LOCKING DEVICE (LOCK-ON FOR CRITICAL LOAD).
4. GFI BREAKER FOR PERSONNEL PROTECTION (5MA).
5. GFI BREAKER FOR EQUIPMENT PROTECTION (30MA).
6. CONDUCTOR SIZE HAS BEEN INCREASED FOR VOLTAGE DROP. SIZE EQUIPMENT GROUNDING CONDUCTOR PROPORTIONATELY PER NEC.
7. REFER TO ONE-LINE DIAGRAM FOR AVAILABLE FAULT CURRENT FOR INTERRUPT RATINGS.
8. REFER TO ONE-LINE DIAGRAMS FOR WIRE SIZES.
9. FACTORY WIRED TO LOAD.
10. BREAKER SHALL BE HIGH MAGNETIC TYPE.
11. BREAKER REMOVAL - FIELD VERIFY CIRCUIT BREAKER IS NOT SERVING AN EXISTING LOAD. IF NO EXISTING LOAD, REMOVE CIRCUIT BREAKER AND PROVIDE FILLER PLATE. IF BREAKER IS SERVING A LOAD, IDENTIFY LOAD SERVED. UPDATE CIRCUIT IDENTIFICATION SCHEDULE AS "SPACE" OR INDICATE LOAD SERVED.
12. DUAL TAP REMOTELY OPERATED BREAKER. CONNECT EMERGENCY/NIGHT LIGHTING TO UNSWITCHED TERMINATION.
13. EXISTING CIRCUIT AND/OR CIRCUIT BREAKER.
14. ROUTE CIRCUIT THROUGH CONTACTOR.
15. PROVIDE INTERLOCK WIRING WITH EXHAUST HOOD ANSUL SYSTEM.
16. RELOCATED CIRCUIT FROM EXISTING PANELBOARD.
17. PROVIDE BLANK CIRCUIT BREAKER FILLER PLATE FOR EXPOSED SPACE IN PANELBOARD.
18. PROVIDE U.L. LISTED OVERCURRENT DEVICE TO COORDINATE AND MAINTAIN MANUFACTURER'S SERIES RATED SYSTEM.
19. EXISTING CIRCUIT BREAKER TO REMAIN. VERIFY CONDITION OF CIRCUIT BREAKER TO ENSURE THAT IT IS OPERATIONAL AND MEETS ALL U.L. RATINGS.
20. ROUTE CIRCUIT THROUGH EXISTING LCU CABINET UTILIZING EXISTING RELAY AND CONTROLS. UPDATE LCU IDENTIFICATION SCHEDULE WITH LOAD IDENTIFICATION.
21. REMOTELY OPERATED CIRCUIT BREAKER. REFER TO BUILDING AUTOMATION SYSTEM PLANS FOR CIRCUIT BREAKER CONTROL.
22. EXISTING LOAD - TRACE EXISTING CIRCUIT, IDENTIFY LOAD AND UPDATE CIRCUIT IDENTIFICATION SCHEDULE FOR LOAD SERVED. IF CIRCUIT IS NOT IN USE, REFER TO PANELBOARD NOTE (11).
23. ROUTE CIRCUIT THROUGH ENCLOSED GFI BREAKER FOR PERSONNEL PROTECTION (5MA).
24. SPARE - FIELD VERIFY CIRCUIT BREAKER IS NOT SERVING AN EXISTING LOAD. IF NO EXISTING LOAD, PROVIDE LOCK OFF DEVICE TO LOCK SPARE BREAKER IN THE OFF POSITION. IF BREAKER IS SERVING A LOAD, IDENTIFY LOAD SERVED. UPDATE CIRCUIT IDENTIFICATION SCHEDULE AS "SPARE" OR INDICATE LOAD SERVED.
25. EXISTING LOAD - TRACE EXISTING CIRCUIT, IDENTIFY LOAD AND UPDATE CIRCUIT IDENTIFICATION SCHEDULE FOR LOAD SERVED. IF CIRCUIT IS NOT IN USE, REFER TO PANELBOARD NOTE (24).
26. SUBMETERED LOAD - INSTALL CT'S AND ROUTE LEADS TO POWER METER INDICATED IN SUBMETER SCHEDULE. FINAL TERMINATIONS AT METER AND COMMISSIONING BY OTHERS.
27. ADJUSTABLE TRIP BREAKER - ADJUST BREAKER SETTINGS PER PROTECTIVE DEVICE SETTINGS REPORT IN SPECIFICATIONS.
28. REPLACE EXISTING CIRCUIT BREAKER WITH NEW CIRCUIT BREAKER. REFERENCE PROTECTIVE DEVICE SETTINGS REPORT FOR MANUFACTURER, BREAKER TYPE, AND SETTINGS.

GENERAL NOTES:
1. NEW BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICES PLACED IN EXISTING PANELBOARDS OR DISTRIBUTION BOARDS SHALL MATCH THE TYPE AND AIC RATING OF EXISTING OVERCURRENT PROTECTION DEVICES IN SAID BOARD.
2. E.C. SHALL TRACE ALL ELECTRICAL CIRCUITS FOR EVERY EXISTING PANELBOARD AFFECTED BY THIS PROJECT. IDENTIFY LOADS ON EACH CIRCUIT. PROVIDE A COMPLETE TYPEWRITTEN CIRCUIT IDENTIFICATION SCHEDULE FOR EVERY AFFECTED PANELBOARD. PROVIDE THE DATE THAT THE SCHEDULE IS CREATED.
3. ALL OVERCURRENT DEVICES ARE NEW UNLESS NOTED OTHERWISE.

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THIS DRAWING WAS PREPARED FOR USE ON THIS PROJECT ONLY AND SHALL NOT BE USED IN WHOLE OR IN PART FOR CONSTRUCTION ON ANY OTHER PROJECT SUITABLE FOR USE ON A DIFFERENT PROJECT AS DETERMINED BY THE ARCHITECT OF THIS DRAWING FOR REFERENCE, OR ALTERATION OF THIS PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED DESIGN PROFESSIONALS. ANY REPRODUCTION OF THIS DRAWING OR PORTIONS THEREOF WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT IS PROHIBITED AND MAY BE CONTRARY TO THE LAW.

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NEW YORK, NY 10018
212.695.1717 FAX 212.695.1699
www.hny-eng.com
2450001270
CAMERON, NC
NC CORP. CERTIFICATE NO. P-0451
EXPIRES 6/30/2026

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CAMERON, NC
2800 NC HWY 24-87
STORE NO: 00998.1000
JOB NUMBER: 2450001270 PROTO: 182

ISSUE BLOCK

1	CCD#1	12/04/25

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PROTO CYCLE:	07/26/24
DOCUMENT DATE:	01/08/25

NORTH CAROLINA PROFESSIONAL SEAL 37166 ENGINEER ERIC KESTERSON
12/04/2025

1 ADD SHEET TO SET

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELF WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

DUNKIN ELECTRICAL PANELBOARD SCHEDULES

SHEET:
DDE3

ERIC S. KESTERSON

GENERAL NOTES

1.0 GENERAL
- 1.1 ALL FIXTURES SHALL BE DESIGNED TO MEET ALL BUILDING CODE REQUIREMENTS INCLUDING SECTION 2209.1 OF THE 2018 NCBC.
- 1.2 JOHNSTON BURKHOLDER ASSOCIATES HAS DESIGNED THE BASE ANCHORAGE FOR THE FIXTURES SHOWN ON THIS INSTALLATION DRAWING TO RESIST DESIGN SEISMIC LATERAL FORCES FOR THE BUILDING CODES NOTED IN THE "DESIGN LOADS" TABLE ON THIS SHEET. INSTALLATION OF THE FIXTURES SHALL MEET THE LAYOUT SHOWN ON THE FIXTURE LAYOUT PLAN, PROVIDED BY OWNER.

2.0 SLAB AND FOUNDATION
- 2.1 SLAB ON GRADE IS ASSUMED TO HAVE A MINIMUM OF 3,500 PSI COMPRESSIVE STRENGTH.
- 2.2 THE SLAB ON GRADE IS ASSUMED TO BE A MINIMUM OF 4 INCHES THICK (5 1/2 INCHES THICK MINIMUM AT RECEIVING AREAS), UNREINFORCED AND PLACED OVER A MINIMUM OF 4 INCHES OF DRAINAGE FILL.
- 2.3 THE SLAB ON GRADE IS DESIGNED TO BEAR ON A NET SOIL BEARING CAPACITY OF 1500 PSF MINIMUM.

3.0 MATERIAL FOR RACKS AND ANCHORAGE
- 3.1 ALL ANCHORS TO THE SLAB SHALL BE AS NOTED ON THESE PLANS.
- 3.2 OWNER IS TO PROVIDE MAINTENANCE PER RMI/ANSI MH16.1 SECTION 4.1.
- 3.3 FIXTURE INSTALLER SHALL OBTAIN OUT-OF-PLUMB INSTALLATION TOLERANCE FROM FIXTURE SUPPLIER PRIOR TO INSTALLATION PER RMI/ANSI MH16.1 SECTION 4.10.
- 3.4 NO FIELD WELDING IS PERMITTED. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS, IN AN APPROVED SHOP. USE E70xx WELD RODS OR EQUAL TO TENSILE STRENGTH OF BASE METAL OF WELDMENTS. PER AWS D1.1 OR D1.3.
- 3.5 PROVIDE 6" AT 120" TALL RACKS AND 4 1/2" AT RACKS LESS THAN 120" (OR EQUAL TO 5% OF THE UPRIGHT FRAME HEIGHT) MINIMUM CLEARANCE BETWEEN OTHER RACK FIXTURES OR ADJACENT BUILDING ELEMENTS PER ASCE 7-10, SECTION 15.5.3.8.

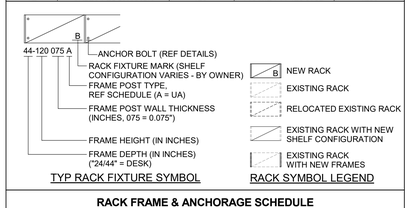
4.0 ROLES AND RESPONSIBILITIES FOR DEMOLITION AND INSTALLATION OF SHELVING AND RACKING FIXTURES
- 4.1 RELOCATION AND SETUP OF GONDOLAS AND/OR RACKING AS INDICATED ON FXS SHEETS WILL BE PERFORMED BY OTHERS. ANCHORING OF UPRIGHTS TO BE PERFORMED BY GENERAL CONTRACTOR.
- 4.2 GENERAL CONTRACTOR TO ANCHOR ALL SHELVING AND RACKING FIXTURES ACCORDING TO THE REQUIREMENTS NOTED ON THE FXS SHEETS.
- 4.3 FIXTURE ANCHORING SHALL BE ACCOMPLISHED SIMULTANEOUSLY WITH FIXTURE INSTALLATION.
- 4.4 ENSURE ALL EXISTING WALL STANDARDS AND HALF GONDOLAS TO REMAIN ARE SECURE TO WALL.
- 4.5 GENERAL CONTRACTOR SHALL ENSURE THAT PROPER PROCEDURES AND WORK SEGREGATION ARE IN PLACE DURING ALL FIXTURE ANCHORING PROCEDURES.
- 4.6 GENERAL CONTRACTOR TO CLEAN ALL RESIDUE FROM SURROUNDING FIXTURES AND AREA AS ANCHORING IS COMPLETED (CLEAN AS YOU GO).
- 4.7 GENERAL CONTRACTOR IS TO PERFORM ALL REMOVAL AND INSTALLATION OF ANCHOR STRAPS AND/OR BOLTS AT FIXTURES REQUIRING PERMANENT OR TEMPORARY RELOCATION.

DESIGN LOADS

1. BUILDING CODE	
A. BUILDING CODE	2018 NORTH CAROLINA BUILDING CODE (2018 NCBC)
2. GRAVITY LOADS	
A. REFER TO MANUFACTURER'S RATED LOADS.	
3. LATERAL LOADS	
A. SEISMIC LOADS	
1. 5% DAMPED SPECTRAL RESPONSE COEFF (Sds)	0.220 g
2. 1-SEC PERIOD SPECTRAL RESPONSE COEFF (Sd1)	0.149 g
3. SEISMIC DESIGN CATEGORY	C
4. SEISMIC SITE CLASS	D (DEFAULT)
5. NON-BUILDING STRUCTURAL SYSTEM AND SEISMIC RESISTING SYSTEM	STEEL STORAGE RACKS
6. RESPONSE MODIFICATION FACTOR (R)	4.0
7. OVERSTRENGTH FACTOR (Ωo)	2.0
8. IMPORTANCE FACTOR (Ip)	
- SALES FLOOR & GARDEN CENTER AREA	1.5 (PUBLIC ACCESS AREA)
- STORAGE AREA	1.0 (NO PUBLIC ACCESS)
9. ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE
10. DESIGN BASE SHEAR (PER RMI 2.6.2)	
- SALES FLOOR & GARDEN CENTER FIXTURES	0.083W (PUBLIC ACCESS AREA)
- STORAGE AREA RACKS	0.055W (NO PUBLIC ACCESS)

RACK FIXTURE SCHEDULE

FIXTURE MARK	FIXTURE DESCRIPTION	TOP SHELF HEIGHT	FRAME MARK	MAX SHELF LOAD (LBS)
AWS	DESK STORAGE RACK	120"	DESK : 24/44-120 075A	1200
B	STORAGE RACK	120"	FRAME : 44-120 125S	5000
O	STORAGE RACK	72"	FRAME : 44-72 075A	1200
OGP2	STORAGE RACK	90"	FRAME : 46-90 OGP	600
OGP5	STORAGE RACK	90"	FRAME : 46-90 OGP	600
YZ	SALES FLOOR RACK	120"	FRAME : 44-120 075B	1200



TYP RACK FIXTURE SYMBOL — RACK SYMBOL LEGEND

RACK FRAME & ANCHORAGE SCHEDULE

FRAME MARK	ANCHOR DETAIL	FRAME COUNT
24/44-120 075A	2-FXS2 & 5A-FXS2	2
44-72 075A	2-FXS2 & 5A-FXS2	2
44-120 075B	2-FXS2 & 5C-FXS2	4
44-120 125S	2-FXS2 & 5A-FXS2	23
46-90 OGP	2-FXS2 & 5B-FXS2	45

ANCHORAGE BILL OF MATERIALS

USAGE	MATERIAL TYPE	COUNT
ANCHOR	DEWALT SCREW BOLT+ - 1/2" DIAMETER x 3"	89
ANCHOR	DEWALT SCREW BOLT+ - 1/4" DIAMETER x 1 3/4"	23
ANCHOR	DEWALT SCREW BOLT+ - 3/8" DIAMETER x 2 1/2"	762
STRAP	ANCHOR STRAPS (GONDOLA)	418
STRAP	ANCHOR STRAPS (T-FRAME)	172
WALL ANCHOR	CMU - 3/8" DIA x 5" ITW RED HEAD LARGE DIAMETER TAPCON (#LDT3850)	27
WALL ANCHOR	MTL STUD WALLS – 1/4" DIA x 6" LAG SCREWS	136

NOTES:
1. ANCHOR BOLTS AND STRAPS AS NOTED ARE FURNISHED BY AND INSTALLED BY THE GENERAL CONTRACTOR (GC).
2. ANCHOR STRAP SUPPLIER CONTACT INFORMATION:
   LOZIER: JOSH GOEDKEN, joshua.goedken@lozier.biz, (402) 457-8379
   MADIX: CHERI BAGLEY, cbagley@madixinc.com, (256) 839-6354

TEMPORARY ANCHORAGE BILL OF MATERIALS

USAGE	MATERIAL TYPE	COUNT
TEMP ANCHOR	DEWALT SCREW BOLT+ - 3/8" DIAMETER x 2 1/2"	468
TEMP STRAP	ANCHOR STRAPS (GONDOLA)	418
TEMP STRAP	ANCHOR STRAPS (T-FRAME)	50

SPECIAL INSPECTIONS REQUIRED

SPECIAL INSPECTION AS REQUIRED BY SECTION 1704 OF THE 2018 NORTH CAROLINA BUILDING CODE OR BY THE ENGINEER OF RECORD:

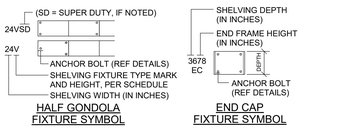
PERIODIC SPECIAL INSPECTIONS:

1. POST INSTALLED ANCHORS - MECHANICAL - USED FOR THE ANCHORAGE OF STORAGE RACK OR SALES FLOOR SHELVING FIXTURES, PER SECTION 1705.3, TABLE 1705.3(4.b.) AND 1705.12.7 OF THE 2018 NORTH CAROLINA BUILDING CODE FOR EACH ANCHOR LISTED IN THE "ANCHOR BOLT DETAIL" ON SHEET FXS2.

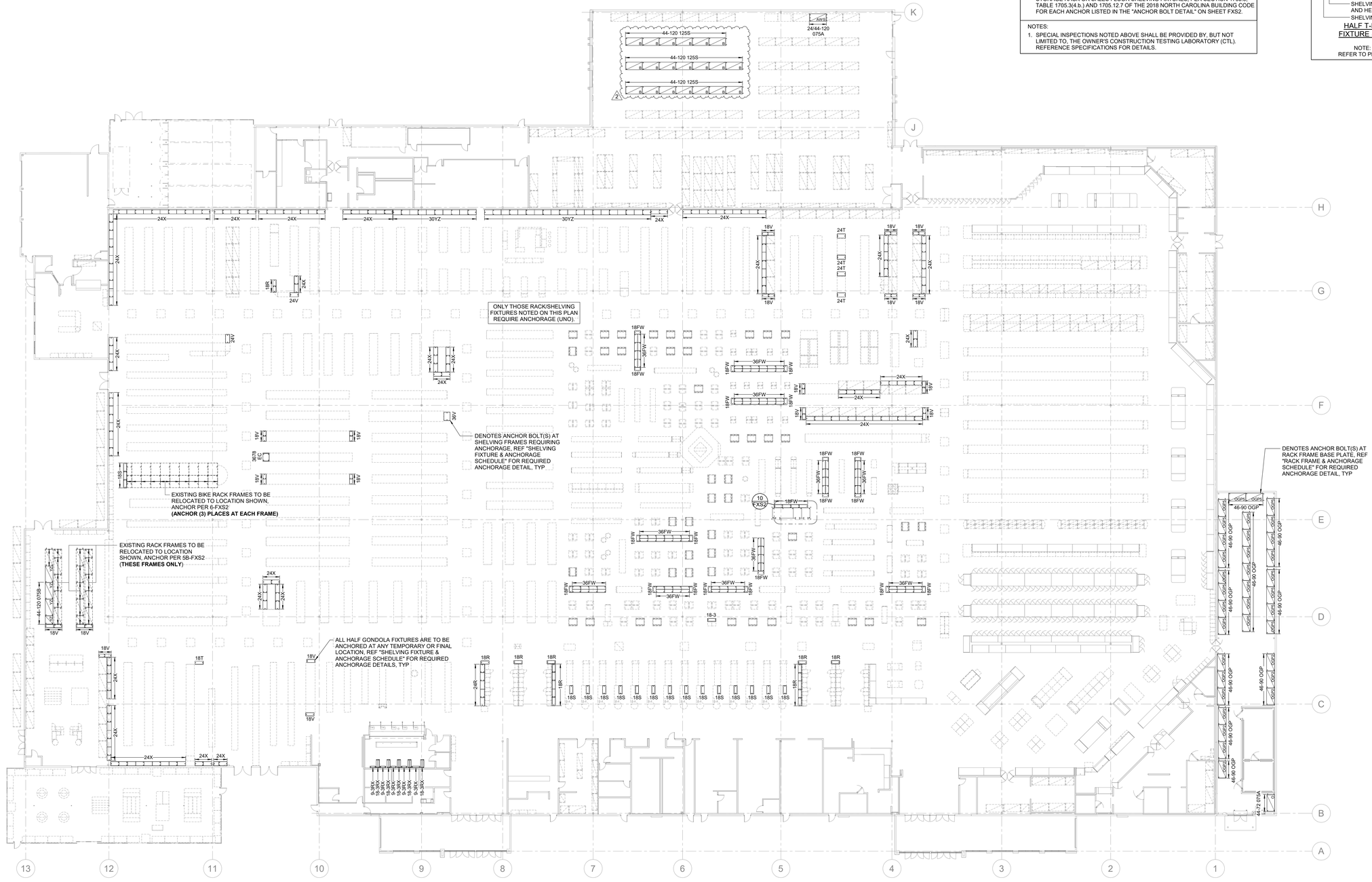
NOTES:
1. SPECIAL INSPECTIONS NOTED ABOVE SHALL BE PROVIDED BY, BUT NOT LIMITED TO, THE OWNER'S CONSTRUCTION TESTING LABORATORY (CTL). REFERENCE SPECIFICATIONS FOR DETAILS.

SHELVING FIXTURE & ANCHORAGE SCHEDULE

FIXTURE MARK	FIXTURE DESCRIPTION	FIXTURE HEIGHT	ANCHORAGE DETAIL
9-3RX	PHARMACY HALF T-FRAME	84"	1B-FXS2
18-3	HALF T-FRAME	84"	1A-FXS2
18-3RX	PHARMACY FULL T-FRAME	84"	1B-FXS2
18FW	HALF T-FRAME	119"	1A-FXS2
18R	HALF GONDOLA	48"	1A-FXS2
18S	HALF GONDOLA	54"	1A-FXS2
18T	HALF GONDOLA	60"	1A-FXS2
18V	HALF GONDOLA	78"	1A-FXS2
24R	HALF GONDOLA	48"	1A-FXS2
24T	HALF GONDOLA	60"	1A-FXS2
24V	HALF GONDOLA	78"	1A-FXS2
24X	HALF GONDOLA	90"	1A-FXS2
30YZ	HALF GONDOLA	120"	1A-FXS2
36FW	FULL T-FRAME	119"	1D-FXS2
36V	HALF GONDOLA	78"	1A-FXS2
3678 EC	END CAP	78"	1C-FXS2



NOTE: ANCHORS SHOWN ABOVE ARE FOR EXAMPLE ONLY, REFER TO PLAN AND DETAILS FOR ACTUAL ANCHOR CONFIGURATION.



1 **RACK AND SHELVING FIXTURE ANCHOR PLAN**
1" = 20'-0"

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1	CCD #1	12/04/25
2	CCD #3	02/12/26

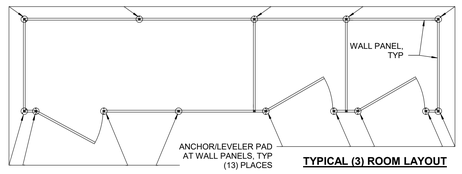
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DOCUMENT DATE:	01/08/25

NORTH CAROLINA PROFESSIONAL SEAL 051941 ENGINEER BRIAN W. MAKOWIEC
02/11/26

FIXTURE ANCHORAGE PLAN AND NOTES

SHEET: FXS1

2/11/2026 3:33:51 PM
J:\Projects\Docs\1958 06958 CAMERON, NC\06958_CAMERON_NC_ARkit\Rack_VNA_R\Revision.rvt

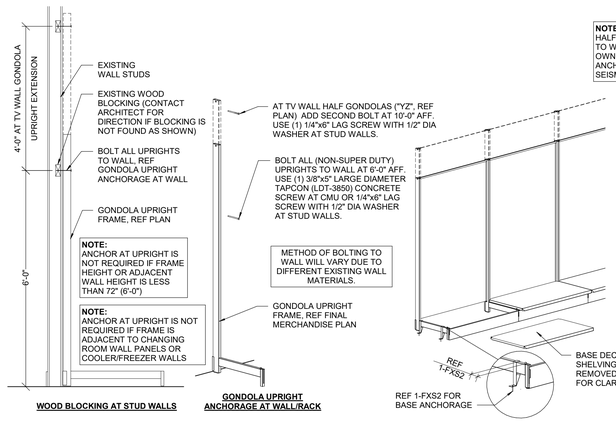


TYPICAL (3) ROOM LAYOUT

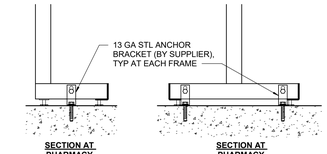
(2) ANCHOR BOLT(S) PER LEVELER AT OUTSIDE CORNERS AND DOOR JAMBS AND (1) ANCHOR BOLT PER LEVELER AT OTHER LOCATIONS. 1/4" DIA DEWALT SCREW BOLT+, REF 3-FXS2.
hnom = 1 5/8", ho = 2", (UNO).

NOTES:
1. REFER TO ANCHORAGE PLAN ON SHEET FXS1 FOR FINAL ORIENTATION OF ROOM LAYOUT.
2. REFER TO SUPPLIER FOR INSTALLATION DRAWINGS FOR DIMENSIONS AND FINAL DOOR ORIENTATION.

10 TYPICAL ANCHORAGE PLAN AT CHANGING ROOM WALL PANELS
3/8" = 1'-0"

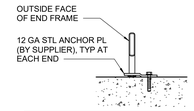


9 WALL ANCHOR AT HALF GONDOLA UPRIGHT
NTS



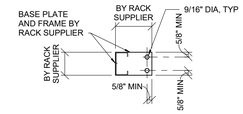
(1) ANCHOR BOLT(S) PER BRACKET: 3/8" DIA DEWALT SCREW BOLT+, REF 3-FXS2.
hnom = 2", ho = 2 3/8", (UNO).

8 TYPICAL ANCHOR AT PHARMACY T-FRAMES
1 1/2" = 1'-0"



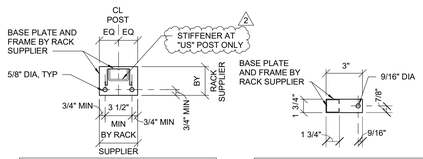
(1) ANCHOR BOLT(S) PER PLATE: 3/8" DIA DEWALT SCREW BOLT+, REF 3-FXS2.
hnom = 2", ho = 2 3/8", (UNO).

7 ANCHOR AT END CAP FRAMES
1 1/2" = 1'-0"



(1) ANCHOR BOLT(S) PER BASE PLATE: 3/8" DIA DEWALT SCREW BOLT+, REF 3-FXS2.
hnom = 2", ho = 2 3/8", ("UB" POST).

5C - BASE PLATE "UB" POST



(1) ANCHOR BOLT(S) PER BASE PLATE: 1/2" DIA DEWALT SCREW BOLT+, REF 3-FXS2.
hnom = 2 1/2", ho = 2 7/8", ("UA" & "US" POST).

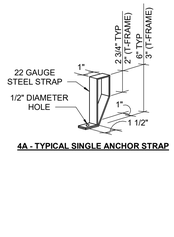
5A - BASE PLATE "UA" & "US" POST

(1) ANCHOR BOLT(S) PER BASE PLATE: 3/8" DIA DEWALT SCREW BOLT+, REF 3-FXS2.
hnom = 2", ho = 2 3/8", ("OGP" POST).

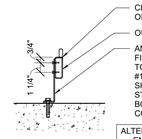
5B - BASE PLATE "OGP" POST

NOTES:
1. PROVIDE SIZE AND QUANTITY OF ANCHORS AS NOTED ABOVE AT EACH UPRIGHT FRAME POST.
2. WHEN BASE PLATE CONTAINS GREATER NUMBER OF BOLT HOLES THAN ANCHORS SPECIFIED. ADDITIONAL HOLES IN BASE PLATE NEED NOT BE FILLED WITH ANCHOR BOLTS.
3. PROVIDE WASHERS AS REQUIRED TO ESTABLISH REQUIRED EMBEDMENT DEPTH "hnom".

5 TYPICAL ANCHOR AT RACK FRAMES
1 1/2" = 1'-0"

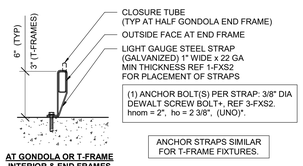


4A - TYPICAL SINGLE ANCHOR STRAP



ALTERNATIVE ANCHOR AT HALF GONDOLA END FRAME

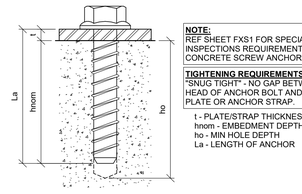
ALTERNATIVE ANCHOR STRAP/BOLT CONNECTION AT END FRAMES - ONLY ALLOWED FOR USE WHEN CLOSURE TUBES DO NOT HAVE A SLOTTED OPENING



AT GONDOLA OR T-FRAME INTERIOR & END FRAMES

4A * ALL TEMPORARY ANCHORS SHALL BE 3/8" DIA DEWALT SCREW BOLT +, hnom = 2", ho =2 3/8" (UNO) REF DETAIL 3-FXS2

4 TYPICAL ANCHOR AT GONDOLA FRAMES
1 1/2" = 1'-0"



NOTE:
REF SHEET FXS1 FOR SPECIAL INSPECTIONS REQUIREMENTS FOR CONCRETE SCREW ANCHOR BOLTS.

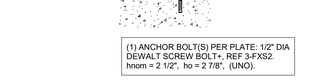
TIGHTENING REQUIREMENTS:
"SNUG TIGHT" - NO GAP BETWEEN HEAD OF ANCHOR BOLT AND BASE PLATE OR ANCHOR STRAP.

t - PLATE/STRAP THICKNESS
hnom - EMBEDMENT DEPTH
ho - MIN HOLE DEPTH
La - LENGTH OF ANCHOR

NOTE:
ALL ANCHOR BOLTS SHALL BE DEWALT SCREW BOLT+.
THE ANCHORS MUST BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS AND PER ICC ESR-3889 REPORT. (IN CASE OF CONFLICT, THE ICC ESR-3889 GOVERNS). REF ANCHOR DETAILS FOR DIAMETER AND EMBEDMENT.

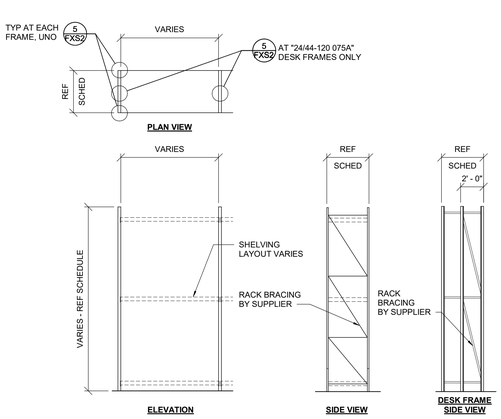
NOTE:
IF CENTERLINE OF ANCHOR BOLTS FALLS WITHIN 1 3/4" OF CONTROL JOINT, SHIFT FIXTURE 2" (MAX) PERPENDICULAR TO THE JOINT, OTHERWISE SUBMIT RFI TO THE ARCHITECT FOR ALTERNATE INSTALLATION BEFORE INSTALLING BOLTS.

3 ANCHOR BOLT DETAIL
NTS

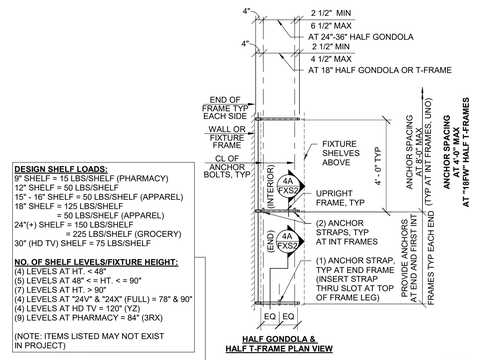


(1) ANCHOR BOLT(S) PER PLATE: 1/2" DIA DEWALT SCREW BOLT+, REF 3-FXS2.
hnom = 2 1/2", ho = 2 7/8", (UNO).

6 ANCHOR AT EXISTING BIKE RACK
1 1/2" = 1'-0"



2 STORAGE AREA RACK ELEVATIONS
3/16" = 1'-0"

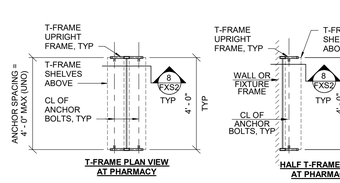


DESIGN SHELF LOADS:
9" SHELF = 15 LBS/SHELF (PHARMACY)
12" SHELF = 50 LBS/SHELF
15" - 16" SHELF = 50 LBS/SHELF (APPAREL)
18" SHELF = 125 LBS/SHELF
= 50 LBS/SHELF (APPAREL)
24"(+) SHELF = 150 LBS/SHELF
= 225 LBS/SHELF (GROCERY)
30" (HD TV) SHELF = 75 LBS/SHELF

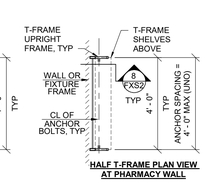
NO. OF SHELF LEVELS/FIXTURE HEIGHT:
(4) LEVELS AT HT. < 48"
(5) LEVELS AT 48" < = HT. < = 90"
(7) LEVELS AT HT. > 90"
(4) LEVELS AT "24V" & "24X" (FULL) = 78" & 90"
(4) LEVELS AT HD TV = 120" (YZ)
(9) LEVELS AT PHARMACY = 84" (3RX)

(NOTE: ITEMS LISTED MAY NOT EXIST IN PROJECT)

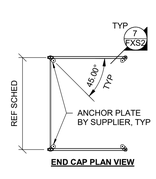
HALF GONDOLA & HALF T-FRAME PLAN VIEW



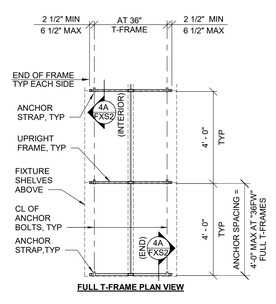
T-FRAME PLAN VIEW AT PHARMACY



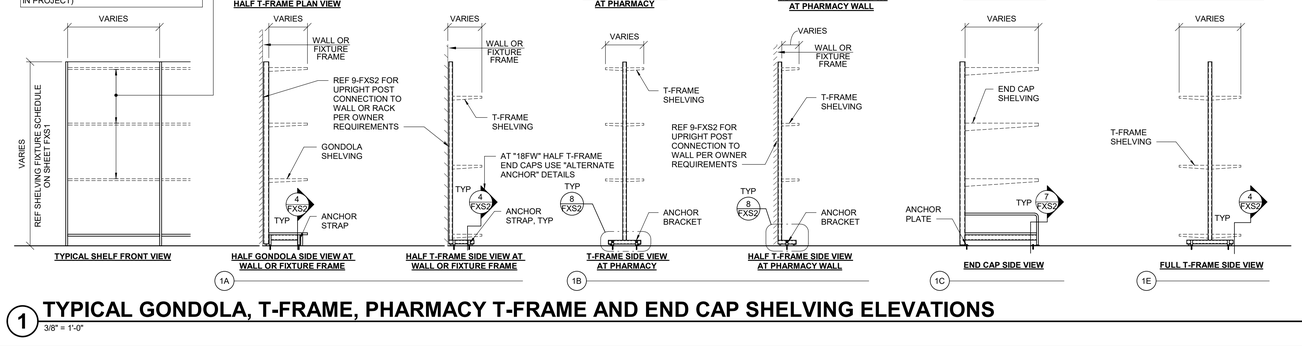
HALF T-FRAME PLAN VIEW AT PHARMACY WALL



END CAP PLAN VIEW



FULL T-FRAME PLAN VIEW



1 TYPICAL GONDOLA, T-FRAME, PHARMACY T-FRAME AND END CAP SHELVING ELEVATIONS
3/8" = 1'-0"

Gabriel J. Massa, RA, AIA, NCARB, LEED AP
NC License No. 9941
MMA MASSA MULTARI ARCHITECTURE, PC.
3297 Route 66, Neptune, NJ 07753
t 732.918.2300 f 732.898.7848

STIPULATION FOR REUSE
THIS DRAWING WAS PREPARED FOR USE ON A SPECIFIC SITE AT CAMERON, NC AND IS NOT SUITABLE FOR USE ON A DIFFERENT CONTEMPORANEOUSLY WITH ITS ISSUE OR FOR ADDITIONS TO THIS PROJECT. USE OF UNAUTHORIZED REFERENCE OR REUSE BY OTHER ARCHITECTS AND ENGINEERS OR OTHERS WITHOUT WRITTEN AUTHORIZATION OR REUSE ON ANOTHER PROJECT IS NOT PERMITTED AND WILL BE CONTRARY TO THE LAW.

CONSULTANTS
JOHNSTON BURKHOLDER ASSOCIATES
consulting structural engineers
816.421.4200 www.jbainc.com
JBA NO. 2431906558

Walmart
CAMERON, NC
2800 NC HWY 24-87
STORE NO.: 06958.1000
JOB NUMBER: 194-23-047 PROTO: 182

ISSUE BLOCK		
1	CCD #1	12/04/25
2	CCD #3	02/12/26

CHECKED BY:	BBB
DRAWN BY:	RBC
PROTO CYCLE:	07/26/24
DOCUMENT DATE:	01/08/25

NORTH CAROLINA PROFESSIONAL SEAL 051941 ENGINEER BRIAN W. MAHONEY
02/11/26

FIXTURE ANCHORAGE DETAILS

SHEET: FXS2

2/11/2026 3:30:48 PM
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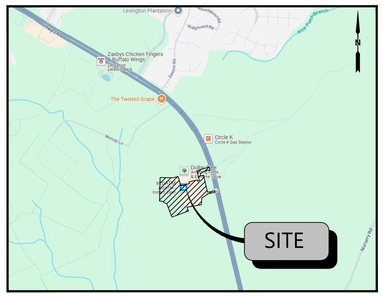
PROPOSED BUILDING ADDITION

SUPERCENTER #06958.1000

2800 NC-24 #87

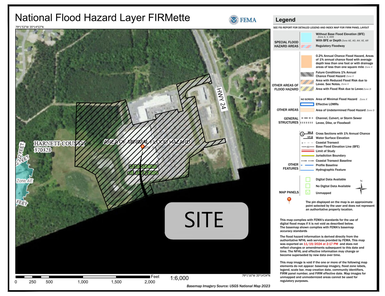
TOWN OF CAMERON, HARNETT COUNTY, NORTH CAROLINA

TAX PARCEL ID: (019594 0107) - (019594 0120 01) - (019594 0003 02)



VICINITY MAP

N.T.S.



FEMA MAP

N.T.S.

NOTE: BASED ON GRAPHIC DETERMINATION, THIS PROPERTY DOES NOT LIE IN A F.E.M.A./F.I.R.M.SPECIAL FLOOD HAZARD AREA PER COMMUNITY PANEL NO. 3710958400J DATED 10/03/2006.



AERIAL MAP

N.T.S.

WALMART #06958.1000 SUPERCENTER

TOTAL SITE AREA: 34.39± AC.
ZONING: RA-20R COMMERCIAL
JURISDICTION: HARNETT COUNTY

DEVELOPMENT TEAM

OWNER

WALMART REAL ESTATE BUSINESS TRUST
8050 P.O. BOX
BENTONVILLE, AR 72712
PHONE: (479) 448-1151
CONTACT: LAURIE LAMMEY
EMAIL: LAURIE.LAMMEY@WALMART.COM

CIVIL ENGINEER

ATWELL, LLC
1850 PARKWAY PLACE, SUITE 650
MARIETTA, GA 30067
PHONE: (770) 423-0807
FAX: (770) 423-1262
CONTACT: BRIAN PELHAM, PE

SURVEYOR

ATWELL, LLC
1850 PARKWAY PLACE, SUITE 650
MARIETTA, GA 30067
PHONE: (770) 423-0807
FAX: (770) 423-1262
CONTACT: MATHEW BISSETT, PLS

GOVERNING AGENCIES AND UTILITY CONTACTS

HARNETT COUNTY
PLANNING SERVICE
420 MCKINNEY PARKWAY
LILLINGTON, NC 27546
PHONE: (910) 893-7525
CONTACT: JAY SYKES

PROJECT NARRATIVE

PROPOSED ±4,524 SQ.FT. BUILDING EXPANSION TO THE SOUTHEASTERN BUILDING CORNER OF WALMART SUPERCENTER #06958.1000. IN ADDITION THE ADJACENT CONCRETE SIDEWALK WILL BE EXPANDED AND GRADES ADJUSTED TO ACCOMMODATE THE PROPOSED BUILDING EXPANSION .

NOTES TO CONTRACTOR

1. EXISTING STRIPING SHALL BE REMOVED BY APPROVED PHYSICAL MEANS PRIOR TO SEAL COAT.
2. CONTRACTOR TO ASSESS AND TRIM ANY TREES ON SITE THAT OBSCURE EXISTING OR PROPOSED SIGNAGE.
3. STRIPE/ REFRESH ALL EXISTING PARKING FIELDS (MAIN, SIDE AND REAR OR STORE).
4. IN THE EVENT STRIPING OR SIGNAGE IN THE PLANS DO NOT MATCH ONSITE CONDITIONS OR DIRECTION IS UNCLEAR, CONTRACTOR SHOULD NOTIFY THE ENGINEER FOR PROPER DIRECTION VIA THE RFI PROCESS.

Sheet List Table

Sheet Number	Sheet Title
C000	COVER SHEET
C010	ALTA/NSPS LAND TITLE SURVEY
C020	ALTA/NSPS LAND TITLE SURVEY
C030	OVERALL SITE PLAN
C100	EROSION AND SEDIMENTATION CONTROL PLAN
C110	EROSION AND SEDIMENTATION CONTROL DETAILS 1
C120	EROSION AND SEDIMENTATION CONTROL DETAILS 2
C150	DEMOLITION PLAN
C200	SITE DIMENSION PLAN
C300	GRADING & UTILITY PLAN
C400	STOP SIGNS AND MARKINGS PLAN
C500	DEMOLITION AND SITE CONSTRUCTION PLAN 1
C510	DEMOLITION AND SITE CONSTRUCTION PLAN 2
C600	PICKUP STRIPING AND SIGNAGE PLAN
C700	SITE CONSTRUCTION DETAIL SHEET
C710	SECP AND STOP SIGNS AND MARKINGS DETAIL SHEET 1
C720	SECP AND STOP SIGNS AND MARKINGS DETAIL SHEET 2
C730	SPECIFICATIONS SHEET 1
C740	SPECIFICATIONS SHEET 2
C750	SPECIFICATIONS SHEET 3
C760	SPECIFICATIONS SHEET 4
C770	SPECIFICATIONS SHEET 5
C780	SPECIFICATIONS SHEET 6
C790	SPECIFICATIONS SHEET 7
C800	LANDSCAPE PLAN & DETAILS

COVER SHEET

REVISIONS | BY

ATWELL
866.850.4200 www.atwell-group.com
1850 PARKWAY PLACE, SUITE 650
MARIETTA, GA
TX, NC, SC, TN
ATWELL, LLC DBA ATWELL, PLLC COA# P-2380

NORTH CAROLINA PROFESSIONAL SEAL 20376 ENGINEER MESA L. LOWE
12/18/2024

SUPERCENTER #06958-1000
2800 NC-24 #87
TOWN OF CAMERON, HARNETT COUNTY, NORTH CAROLINA
WALMART REAL ESTATE BUSINESS TRUST
BENTONVILLE, AR

DRAWN: GJ
CHECKED: BL
DATE: 12-09-2024
SCALE:
JOB No.: 24001422
SHEET: C000

FILE NAME: K:\24001422 WM Store #0958 - Cameron, NC\DWG\Engineering\Lit PRODUCTION\24001422 - COVER.dwg LAST SAVED BY: emilyhng 1/7/2025 10:16 AM PLOTTED BY: Shay Shipping 1/7/2025 PAPER: ARCH FULL BLEED E1 (36.00 X 42.00 INCHES) SERVICE: DWG TO PDF.PC3 PLOT STYLE: ATWELL.CTB

EXHIBIT "A" TITLE LEGAL DESCRIPTION

ALL THAT CERTAIN PIECE, PARCEL, OR TRACT OF LAND LYING AND BEING SITUATE IN HARNETT COUNTY, NORTH CAROLINA, CONSISTING OF 14.844 ACRES, MORE OR LESS, AND BEING SHOWN AND IDENTIFIED AS WAL-MART (LOT 1) ON THAT CERTAIN SUBDIVISION PLAT PREPARED FOR SPOUT SPRINGS RETAIL INVESTMENT, LLC BY FREELAND & ASSOCIATES, INC. DATED APRIL 2, 2014, IDENTIFIED AS DRAWING NO. 65260-RECOMBINATION AND RECORDED ON MAY 5, 2015 IN THE OFFICE OF THE REGISTER OF DEEDS FOR HARNETT COUNTY IN BOOK 2015 AT PAGE 140.

AND ALSO:

ALL THOSE CERTAIN PIECES, PARCELS, OR TRACTS OF LAND LYING AND BEING SITUATE IN HARNETT COUNTY, NORTH CAROLINA, BEING SHOWN AND IDENTIFIED AS LOT 2 (CONSISTING OF 10.842 ACRES, MORE OR LESS) AND LOT 4 (CONSISTING OF 8.711 ACRES, MORE OR LESS) ON THAT CERTAIN SUBDIVISION PLAT PREPARED FOR CATHERLEEN B. THOMAS ET. AL. AND WILLIE C. BRINKLEY ET. AL. BY FREELAND & ASSOCIATES, INC. DATED APRIL 2, 2014, IDENTIFIED AS DRAWING NO. 65260-SUBPHASE1 AND RECORDED ON MAY 5, 2015, IN THE OFFICE OF THE REGISTER OF DEEDS FOR HARNETT COUNTY IN BOOK 2015 AT PAGE 138.

THE ABOVE-DESCRIBED LOT 1 (14.844 ACRES), LOT 2 (10.842 ACRES) AND LOT 4 (8.711 ACRES) COMPRISING AS A TOTAL TRACT THAT PROPERTY SHOWN AND DELINEATED AS LOT 1 (CONTAINING 34.398 ACRES, MORE OR LESS) ON THAT CERTAIN ALTA/ACSM LAND TITLE SURVEY FOR WAL-MART REAL ESTATE BUSINESS TRUST DATED APRIL 2, 2014 AND IDENTIFIED AS DRAWING NO. 65260-ALTA-WALMART SAID TOTAL PARCEL HAVING AN OVERALL METES AND BOUNDS DESCRIPTION AS FOLLOWS, IN ACCORDANCE WITH SAID ALTA/ACSM LAND TITLE SURVEY:

COMMENCING AT NCGS MONUMENT HIGH 2001, HAVING COORDINATES OF N: 547340.9854 AND E: 2000035.3806 AND RUNNING A TIE LINE S 69-27-08 W FOR 7555.63 FEET TO AN IRON PIN LOCATED ON THE WEST RIGHT OF WAY OF NC HWY 24 & 87 (VARIABLE WIDTH R/W) BEING THE COMMON CORNER OF MARSHALL AND CHANCE (DB. 1035-818) AND THE POINT OF BEGINNING; THENCE ALONG SAID RIGHT OF WAY S 17-10-10 E FOR 97.41 FEET TO AN IRON PIN; THENCE S 15-34-28 E FOR 20.51 FEET TO A POINT; THENCE LEAVING SAID RIGHT OF WAY AND FOLLOWING THE COMMON LINE OF LOT 3, S 74-25-32 W FOR 29.59 FEET; N 48-24-54 W FOR 26.42 FEET; S 72-49-49 W FOR 190.52 FEET; S 54-31-22 W FOR 69.71 FEET; ALONG A CURVE CONCAVE TO THE EAST HAVING A RADIUS OF 85.15 FEET AN ARC OF 81.91 FEET AND A CHORD OF S 25-09-40 W FOR 78.79 FEET; S 14-01-46 E FOR 30.57 FEET; N 75-58-14 E FOR 107.97 FEET; S 15-38-59 E FOR 42.38 FEET; S 11-08-40 E FOR 79.81 FEET; THENCE ALONG THE COMMON LINE OF LOTS 4 AND 5, S 14-01-46 E FOR 450.41 FEET; S 50-33-24 E FOR 16.82 FEET; N 75-58-14 E FOR 230.48 FEET TO A POINT ON THE WEST RIGHT OF WAY OF NC HWY 24 & 87; THENCE S 13-19-54 E FOR 50.00 FEET TO A POINT; THENCE ALONG LOT 6, S 75-58-14 W FOR 283.03 FEET; THENCE S 17-47-53 E FOR 18.57 FEET TO AN IRON PIN; THENCE ALONG THE COMMON LINE OF MCLEAN CEMETERY (DB. 2031-120) S 58-22-13 W FOR 199.76 FEET TO AN IRON PIN; THENCE S 04-01-02 W FOR 229.46 FEET TO AN IRON PIN; THENCE S 80-13-12 W FOR 480.42 FEET TO AN IRON PIN; THENCE S 20-49-40 E 132.14 FEET TO A CONCRETE MONUMENT; THENCE ALONG THE COMMON LINE OF THE UNITED STATES OF AMERICA (DB. 1184-403) S 69-02-51 W FOR 586.39 FEET TO AN IRON PIN; THENCE ALONG THE COMMON LINE OF SAM BRINKLEY (DB. 696-561) N 20- 57-09 W FOR 471.52 FEET TO AN IRON PIN; THENCE N 60-30-37 W FOR 183.33 FEET TO AN IRON PIN; THENCE N 88-31-24 W FOR 85.55 FEET TO AN IRON PIN; THENCE ALONG THE COMMON LINE OF THOMAS (DB. 696-559) N 01-28-36 E FOR 785.09 FEET TO AN IRON PIN; THENCE ALONG THE COMMON LINE OF AFRICAN METHODIST (DB. 2662-852) S 88-31-24 E FOR 434.72 FEET TO AN IRON PIN; THENCE N 73-33-35 E FOR 170.67 FEET TO AN IRON PIN; THENCE ALONG THE COMMON LINE OF LOT 2, S 16-10-01 E FOR 321.87 FEET; N 75-58-14 E FOR 295.73 FEET; N 14-01-46 W FOR 56.38 FEET; N 75-58-14 E FOR 281.50 FEET; S 14-01-46 E FOR 37.00 FEET; N 75-58-14 E FOR 61.50 FEET; N 14-01-46 W FOR 334.18 FEET TO AN IRON PIN; THENCE ALONG THE COMMON LINE OF MARSHALL AND CHANCE (DB. 1035-818) N 72-36-20 E FOR 168.40 FEET TO AN IRON PIN; THENCE N 71-52-54 E FOR 241.94 FEET TO THE POINT OF BEGINNING. SAID TRACT CONTAINS 34.398 ACRES OR 1,498,359 SQUARE FEET, MORE OR LESS.

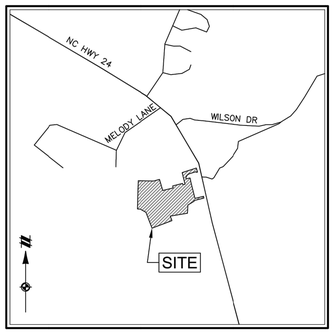
TITLE COMMITMENT

OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY
COMMITMENT NO. GA24009188 - COMMITMENT DATE: JULY 11, 2024
SCHEDULE B SECTION II - EXCEPTIONS

THIS SURVEY AND COMMENTS TO TITLE EXCEPTIONS ARE BASED ON THE SURVEY AREA LIMITS SHOWN HEREON, WHICH IS A PORTION OF THE LAND DESCRIBED IN THE TITLE COMMITMENT EXHIBIT "A".

1. ANY DEFECT, LIEN, ENCUMBRANCE, ADVERSE CLAIM OR OTHER MATTER THAT APPEARS FOR THE FIRST TIME IN THE PUBLIC RECORDS OR IS CREATED, ATTACHES OR IS DISCLOSED BETWEEN THE COMMITMENT DATE AND THE DATE ON WHICH ALL OF THE SCHEDULE B, PART 1--REQUIREMENTS ARE MET.
2. RIGHTS OR CLAIMS OF PARTIES IN POSSESSION NOT SHOWN BY PUBLIC RECORDS.
3. EASEMENTS, LIENS OR ENCUMBRANCES, OR CLAIMS THEREOF, NOT SHOWN BY PUBLIC RECORDS.
4. ANY LIEN OR RIGHT TO A LIEN FOR SERVICES, LABOR OR MATERIALS HERETOFORE OR HEREAFTER FURNISHED, IMPOSED BY LAW AND NOT SHOWN BY THE PUBLIC RECORDS.
5. ALL TAXES AND ASSESSMENTS FOR THE YEAR 2024 WHICH ARE LIENS DUE, PAYABLE AND DELINQUENT, AND ANY ADDITIONAL TAXES WHICH MAY BE ASSESSED FOR CURRENT OR PRIOR YEARS DUE TO REVISED APPRAISAL, RE-ASSESSMENT OF TAXES OR AN APPEAL.
6. ALL ASSESSMENTS, TAXES, AND SPECIAL ASSESSMENTS WHICH ARE NOW A LIEN OR PAYABLE OR WHICH MAY BECOME DUE AND PAYABLE.
7. THIS COMMITMENT OF TITLE INSURANCE AFFORDS ASSURANCE AS TO THE LOCATION OF THE BOUNDARY LINES OF SUBJECT PROPERTY, BUT DOES NOT INSURE THE ENGINEERING CALCULATION AND COMPUTING FOR THE EXACT AMOUNT OF ACREAGE AND/OR SQUARE FOOTAGE CONTAINED THEREIN.
8. ALL MATTERS AS WOULD BE DISCLOSED BY A CURRENT AND ACCURATE SURVEY AND INSPECTION OF THE PREMISES, INCLUDING WITHOUT LIMITATION, ENCROACHMENTS, EASEMENTS, MEASUREMENTS, VARIATIONS IN AREA OR CONTENT, PARTY WALLS, OR RIPARIAN RIGHTS. UPON RECEIPT OF A SURVEY ACCEPTABLE TO THE COMPANY, THIS ITEM MAY BE REPLACED WITH A SPECIFIC SURVEY READING.
9. RIGHTS OF TENANTS IN POSSESSION UNDER UNRECORDED LEASES AND THE TERMS AND CONDITIONS OF ANY UNRECORDED LEASES.
10. 1ANY LEASE, GRANT, CONVEYANCE, EXCEPTION OR RESERVATION OF MINERALS OR MINERAL RIGHTS APPEARING IN THE PUBLIC RECORDS. NOTHING HEREIN SHALL INSURE AGAINST LOSS OR DAMAGE RESULTING FROM SUBSIDENCE.
11. ALL MATTERS AS REFLECTED ON THE FOLLOWING PLATS OF RECORD:
PLAT BOOK 1, PAGE 12; PLAT BOOK 2004, PAGE 1292; PLAT BOOK 2011, PAGE 37; PLAT BOOK 2015, PAGES 138 - 139; PLAT BOOK 2015, PAGES 140 - 141; PLAT BOOK 2016, PAGES 240 - 241
-PLAT BOOK 1 PAGE 12; PLAT BOOK 2004 PAGE 1292; PLAT BOOK 2011 PAGE 37; PLAT BOOK 2015 PAGE 138; PLAT BOOK 2015 PAGE 140: NO PLOTTABLE SURVEY ITEMS AFFECTING SUBJECT AREA
-PLAT BOOK 2016 PAGE 240: AFFECTS SUBJECT AREA, AS SHOWN ON SURVEY
12. EASEMENT IN FAVOR OF CAROLINA TELEPHONE AND TELEGRAPH RECORDED IN BOOK 362, PAGE 15.
-UNABLE TO DETERMINE LOCATION OF EASEMENT FROM RECORDED DOCUMENT
13. EASEMENTS IN FAVOR OF THE DEPARTMENT OF TRANSPORTATION RECORDED IN BOOK 1279, PAGE 187; BOOK 1304, PAGE 289; AND BOOK 1280, PAGE 598.
-DOES NOT AFFECT SUBJECT AREA
14. TEMPORARY DEED OF EASEMENT IN FAVOR OF COUNTY OF HARNETT RECORDED IN BOOK 2266, PAGE 123.
-DOES NOT AFFECT SUBJECT AREA
15. ACCESS EASEMENT RECORDED IN BOOK 3303, PAGE 552; BOOK 3303, PAGE 556; BOOK 3303, PAGE 560; BOOK 3303, PAGE 564; BOOK 3303, PAGE 568; BOOK 3303, PAGE 572; BOOK 3303, PAGE 576; BOOK 3303, PAGE 580; BOOK 3303, PAGE 584; BOOK 3303, PAGE 588; BOOK 3303, PAGE 592; BOOK 3303, PAGE 596; BOOK 3303, PAGE 600; BOOK 3303, PAGE 604; BOOK 3303, PAGE 608; BOOK 3303, PAGE 612; BOOK 3303, PAGE 616; BOOK 3303, PAGE 620; BOOK 3303, PAGE 625; BOOK 3303, PAGE 629; BOOK 3303, PAGE 633; BOOK 3303, PAGE 637; BOOK 3303, PAGE 641; AND BOOK 3303, PAGE 645.
-DOES NOT AFFECT SUBJECT AREA
16. RESTRICTIVE COVENANTS FOR THE BENEFIT OF THE INSURED TRACT, RECORDED IN BOOK 3303, PAGE 831. AFFIDAVIT OF CORRECTION RECORDED IN BOOK 3323, PAGE 891.
-AFFECTS SUBJECT AREA, NOT SHOWN ON SURVEY (BLANKET IN NATURE)
17. RECIPROCAL ACCESS EASEMENT AGREEMENT RECORDED IN BOOK 3530, PAGE 153.
-DOES NOT AFFECT SUBJECT AREA
18. TERMINATION AND RELOCATION OF EASEMENT (DB 2031, PAGE 120; PB 2004, PAGE 1292) RECORDED IN BOOK 3303, PAGE 800.
-DOES NOT AFFECT SUBJECT AREA
19. UTILITY EASEMENT AND DEED (WATER AND SANITARY SEWER) RECORDED IN BOOK 3303, PAGE 806. AFFIDAVIT OF CORRECTION RECORDED IN BOOK 3323, PAGE 878. ASSIGNED BY ASSIGNMENT OF UTILITY EASEMENT AND DEED RECORDED IN BOOK 3431, PAGE 411.
-DOES NOT AFFECT SUBJECT AREA
20. CABLE EASEMENT TO CAROLINA TELEPHONE AND TELEGRAPH COMPANY LLC DBA CENTURYLINK RECORDED IN BOOK 3429, PAGE 290.
-DOES NOT AFFECT SUBJECT AREA
21. ELECTRIC LINE RIGHT OF WAY EASEMENT TO CENTRAL ELECTRIC MEMBERSHIP CORP. RECORDED IN BOOK 3429, PAGE 300.
-DOES NOT AFFECT SUBJECT AREA
22. UTILITY EASEMENT AND DEED (WATER AND SANITARY SEWER) TO COUNTY OF HARNETT RECORDED IN BOOK 3431, PAGE 400.
-AFFECTS SUBJECT AREA, AS SHOWN ON SURVEY
23. UTILITY EASEMENT AND DEED (WATER AND SANITARY SEWER) TO COUNTY OF HARNETT RECORDED IN BOOK 3431, PAGE 405.
-AFFECTS SUBJECT AREA, AS SHOWN ON SURVEY
24. MEMORANDUM OF LEASE WITH GEARON COMMUNICATIONS RECORDED IN BOOK 1314, PAGE 854.
-DOES NOT AFFECT SUBJECT AREA
25. AGREEMENT REGARDING EASEMENT RIGHTS RECORDED IN BOOK 3303, PAGE 784.
-DOES NOT AFFECT SUBJECT AREA
26. DECLARATION OF NOTICE RECORDED IN BOOK 3530, PAGE 189.
-DOES NOT AFFECT SUBJECT AREA
27. NOTICE OF CONTRACT RECORDED IN BOOK 3352, PAGE 968.
-NOT A SURVEY MATTER
28. UNKNOWN HEIRS, IF ANY, OF SAM BRINKLEY AND MAYBOB ELIZABETH PAYE.





VICINITY MAP

NOT TO SCALE

TABLE "A" NOTES

2. SITE ADDRESS: 2800 NC HIGHWAY 24-87, CAMERON, NORTH CAROLINA
3. FLOOD NOTE: ACCORDING TO THE FLOOD INSURANCE RATE MAP (FIRM) FOR HARNETT COUNTY, NORTH CAROLINA, COMMUNITY-PANEL NUMBER 3710958400J, DATED 10/03/2006, THE SUBJECT SITE AREA LIES WITHIN ZONE X AND IS NOT IN A SPECIAL FLOOD HAZARD AREA.
5. VERTICAL RELIEF: ELEVATIONS & 1' CONTOURS SHOWN HEREON PER GROUND SURVEY AND ARE PURSUANT TO NORTH AMERICAN VERTICAL DATUM OF 1988.
6. (A) THE SUBJECT PROPERTY IS ZONED "C3" (COMMERCIAL) PER A ZONING VERIFICATION LETTER PREPARED BY THERESA JONES, PLANNING TECHNICIAN, DATED 11/04/2024. SETBACK REQUIREMENTS, HEIGHT AND FLOOR SPACE AREA RESTRICTIONS AND PARKING REQUIREMENTS WERE NOT PROVIDED AT THE TIME OF SURVEY.
(B) A ZONING REPORT CONTAINING HEIGHT AND FLOOR SPACE AREA RESTRICTIONS AND PARKING REQUIREMENTS WAS NOT PROVIDED AT THE TIME OF SURVEY.
7. (A) EXTERIOR BUILDING DIMENSIONS SHOWN AT GROUND LEVEL
(B) SQUARE FOOTAGE OF BUILDINGS BASED ON SITE PLAN PREPARED BY WOLVERTON & ASSOCIATES DATED 01/5/2015
(C) MEASURED HEIGHT OF BUILDINGS AS SHOWN
8. SUBSTANTIAL FEATURES: PARKING LOTS, BILLBOARDS, SIGNS, SWIMMING POOLS, LANDSCAPED AREAS, OR SUBSTANTIAL AREAS OF REFUSE LOCATED AS SHOWN.
9. THERE ARE 23 REGULAR PARKING SPACES AND 0 HANDICAP PARKING SPACES WITHIN THE SUBJECT AREA.
11. UTILITIES: THE LOCATIONS OF UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON VISIBLE STRUCTURES AND A UTILITY REPORT PREPARED BY GPRS DATED 11/07/2024. THE PROPERTY MAY BE SERVED BY UNDERGROUND UTILITIES WHICH ARE NOT SHOWN HEREON. ALL UTILITY COMPANIES SHOULD BE CONTACTED BEFORE BEGINNING ANY DESIGN OR CONSTRUCTION.
15. RECTIFIED ORTHOPHOTOGRAPHY: N/A - ALL IMPROVEMENTS SHOWN WITHIN THE SURVEY SUBJECT AREA LIMITS ARE FIELD LOCATED.
20A. THE SURVEYOR SHALL GRAPHICALLY DEPICT AND GIVE THE RECORDING INFORMATION FOR ANY EASEMENTS IDENTIFIED IN THE TITLE COMMITMENT OR OWNERSHIP AND ENCUMBRANCE REPORT OF WHICH THE SURVEY HAS KNOWLEDGE OF WITHIN THE SURVEYED SUBJECT AREA SHOWN HEREON. ALSO ANY EASEMENTS THAT THE SURVEYOR MAY HAVE KNOWLEDGE OF THAT WAS FOUND ON ANY RECORDED OR UNRECORDED SURVEYS OR DEEDS THAT MAY HAVE BEEN PROVIDED TO THE SURVEYOR.

SURVEY NOTES

1. THIS ALTA SURVEY WAS PREPARED FOR THE EXCLUSIVE USE OF THE PERSON, PERSONS, OR ENTITY NAMED HEREON. THIS PLAT DOES NOT EXTEND TO ANY UNNAMED PERSON, PERSONS OR ENTITY WITHOUT EXPRESS WRITTEN CERTIFICATION BY THE SURVEYOR NAMING SAID PERSON, PERSONS, OR ENTITY.
2. EASEMENTS AND RIGHTS OF WAY OF WHICH THE SURVEYOR HAS KNOWLEDGE ARE SHOWN HEREON, OTHERS MAY EXIST OF WHICH THE SURVEYOR HAS NO KNOWLEDGE AND OF WHICH THERE IS NO OBSERVABLE EVIDENCE. THE PROPERTY SHOWN HEREON IS SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD BOTH WRITTEN AND UNWRITTEN.
3. NORTH ARROW AND BEARINGS SHOWN HEREON ARE BASED ON NORTH CAROLINA STATE PLANES - NAD 83 ADJUSTED 2011. ALL DISTANCES ARE HORIZONTAL GROUND MEASUREMENTS EXPRESSED IN U.S. SURVEY FEET.
4. ELEVATIONS SHOWN HEREON ARE PURSUANT TO THE NORTH AMERICAN VERTICAL DATUM OF 1988. THE COMBINED NETWORK SOLUTION OBTAINED ABOVE WAS CHECKED AGAINST AND CONFORMS TO RECOVERED LOCAL NGS BENCHMARK EZ2017 (PUBLISHED ELEVATION: 330.06').
5. EQUIPMENT USED FOR MEASUREMENT: ANGULAR/LINEAR: TRIMBLE S-5 ROBOTIC TOTAL STATION, TRIMBLE R10 GPS RECEIVER
6. STATE, COUNTY, & LOCAL BUFFERS AND SETBACKS MIGHT EXIST ON THE SUBJECT PROPERTY THAT ARE NOT SHOWN HEREON.
7. THIS ALTA SURVEY IS LIMITED TO THE SUBJECT AREA SHOWN HEREON.

SURVEYOR'S ALTA CERTIFICATION

TO: WAL-MART REAL ESTATE BUSINESS TRUST, A DELAWARE STATUTORY TRUST; OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2021 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 2, 3, 5, 6(A)(B), 7(A)(B)(1)(C), 8, 9, 11(A)(B), 15, 19 & 20(A) OF TABLE A THEREOF. THE FIELD WORK WAS COMPLETED ON 12/16/2024.

DATE OF MAP OR PLAT: 10/15/2024

FOR REVIEW

PROFESSIONAL LAND SURVEYOR: MATTHEW C. BISSETT, PLS L-5420
NORTH CAROLINA PROFESSIONAL LAND SURVEYOR #5420
ATWELL, LLC DBA ATWELL, PLLC COA# P-2380

SURVEYOR'S CERTIFICATION

I, MATTHEW C. BISSETT, CERTIFY THAT THIS PROJECT WAS COMPLETED UNDER MY DIRECT AND RESPONSIBLE CHARGE FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION; THAT THIS GROUND SURVEY WAS PERFORMED AT THE 95 PERCENT CONFIDENCE LEVEL TO MEET FEDERAL GEOGRAPHIC DATA COMMITTEE STANDARDS; THAT THIS SURVEY WAS PERFORMED TO MEET THE REQUIREMENTS FOR A TOPOGRAPHIC/PLANIMETRIC SURVEY TO THE ACCURACY OF CLASS (A) AND VERTICAL ACCURACY WHEN APPLICABLE TO THE CLASS A STANDARD, AND THAT THE ORIGINAL DATA WAS OBTAINED ON AUGUST 28, 2024; THAT THE SURVEY WAS COMPLETED OCTOBER 15, 2024; THAT CONTOURS SHOWN AS BROKEN LINES MAY NOT MEET THE STATED STANDARD; AND ALL COORDINATES ARE BASED ON NORTH CAROLINA STATE PLANE 'NAD 83' AND REALIZATION ADJUSTED 2011 AND ALL ELEVATIONS ARE BASED ON NAVD 88.

FOR REVIEW

PROFESSIONAL LAND SURVEYOR: MATTHEW C. BISSETT, PLS L-5420
NORTH CAROLINA PROFESSIONAL LAND SURVEYOR #5420
ATWELL, LLC DBA ATWELL, PLLC COA# P-2380

ABBREVIATIONS

DB	=	DEED BOOK
IRF	=	IRON ROD FOUND
LB	=	LICENSED BUSINESS
(M)	=	MEASURED
NAD	=	NORTH AMERICAN DATUM
NAVD	=	NORTH AMERICAN VERTICAL DATUM
PB	=	PLAT BOOK
PG	=	PAGE
PID	=	PARCEL IDENTIFICATION NUMBER
PK	=	PARKER - KALON
(R)	=	RECORD
RLS	=	REGISTERED LAND SURVEYOR
RTK	=	REAL-TIME KINEMATIC
R/W	=	RIGHT-OF-WAY
SQ FT	=	SQUARE FEET
VRS	=	VIRTUAL REFERENCE STATION

LEGEND

- BOUNDARY MARKER FOUND
- (#) TITLE EXCEPTION NUMBER
- SUBJECT BOUNDARY LINE
- ADJACENT BOUNDARY LINE
- EASEMENT
- R/W RIGHT OF WAY LINE

LINE TABLE (R)		
LINE #	BEARING	LENGTH
L1	S17°10'10"E	97.41'
L2	S15°34'28"E	20.51'
L3	S74°25'32"W	29.50'
L4	N48°24'54"W	26.42'
L5	S54°31'22"W	69.71'
L6	S14°01'46"E	30.57'
L7	N75°58'14"E	107.97'

LINE TABLE (R)		
LINE #	BEARING	LENGTH
L8	S15°38'59"E	42.38'
L9	S11°08'40"E	79.81'
L10	S50°33'24"E	16.82'
L11	S13°19'54"E	50.00'
L12	S17°47'53"E	18.57'
L13	N88°31'24"W	85.55'
L14	N14°01'46"W	56.38'

CURVE TABLE (M)(R)					
CURVE #	LENGTH	RADIUS	DELTA	CHORD BEARING	CHORD LENGTH
C1	81.91'	85.15'	55°07'01"	S25°09'40"W	78.79'

DATUMS

Horizontal: Grid North, NAD83, North Carolina State Plane
(North American Datum of 1983) (2011)
US Survey Foot, Harnett County, North Carolina
Vertical: NAVD88 (North American Vertical Datum of 1988)
Geoid: Geoid18 (Conus)

ZONING

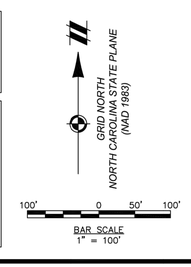
(SEE TABLE "A" NOTE #6)

A ZONING REPORT CONTAINING SETBACK REQUIREMENTS, HEIGHT AND FLOOR SPACE AREA RESTRICTIONS AND PARKING REQUIREMENTS WAS NOT PROVIDED AT THE TIME OF SURVEY.

THE SUBJECT PROPERTY IS ZONED "C3" (COMMERCIAL) PER A ZONING VERIFICATION LETTER PREPARED BY THERESA JONES, PLANNING TECHNICIAN, DATED 11/04/2024.

MINIMUM BUILDING SETBACKS LISTED BELOW ARE PER SITE PLAN PREPARED BY WOLVERTON & ASSOCIATES DATED 01/15/2015:

FRONT: 35'
REAR: 25'
SIDE: 0' (20' - ADJACENT TO RESIDENTIAL; 20' - ADJACENT TO STREET; 15' - ADJACENT TO EASEMENT OR PRIVATE STREET)



811 Know what's below. Call before you dig.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE:
CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR; NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

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866.850.4200 www.atwell-group.com
1850 PARKWAY PLACE, SUITE 650
MARIETTA, GA 30067
ATWELL, LLC DBA ATWELL, PLLC COA# P-2380

LOCATED IN HARNETT COUNTY NORTH CAROLINA

CLIENT: WALMART, INC.

ALTA/NSPS LAND TITLE SURVEY
2800 NC HIGHWAY 24-87
CAMERON, NC

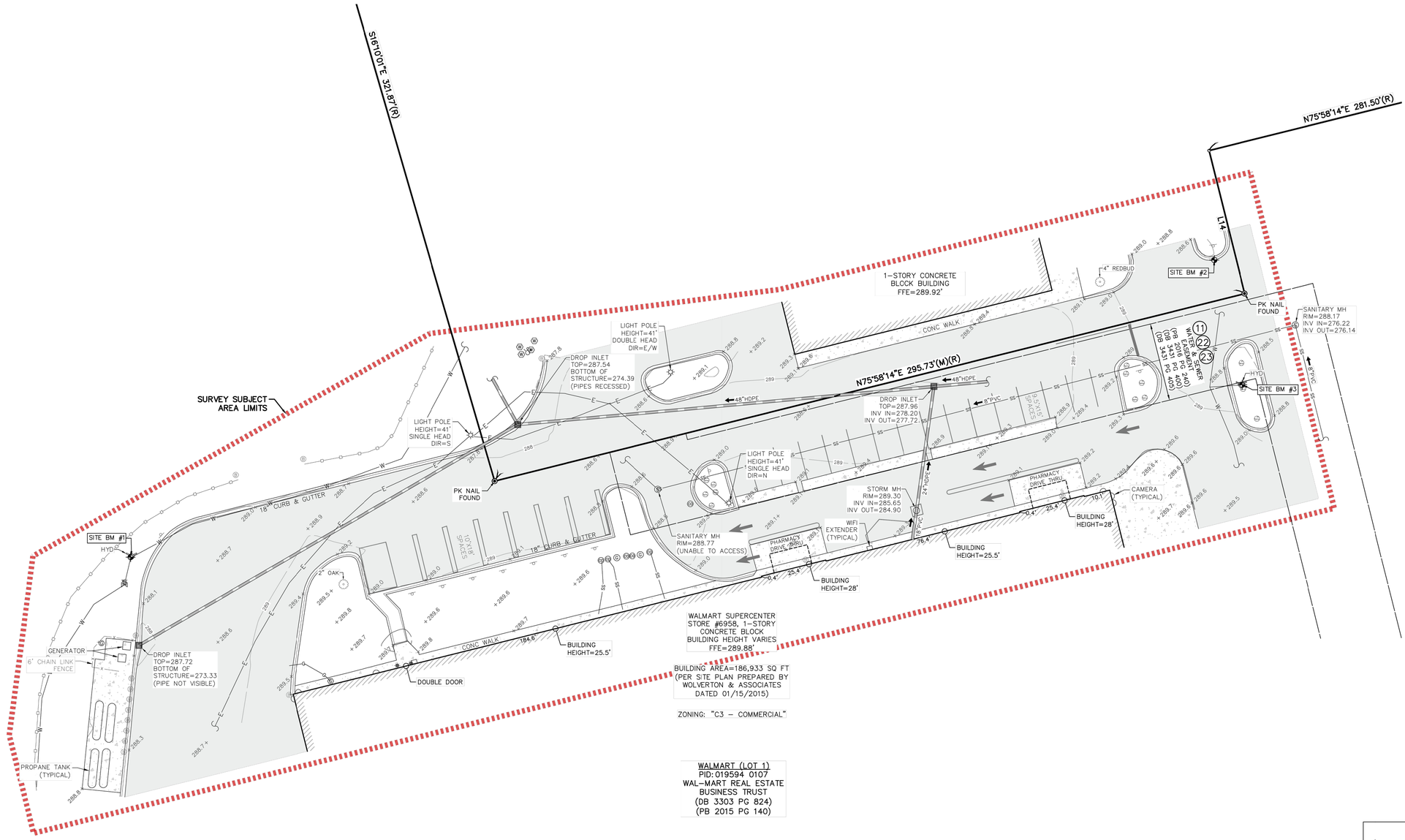
DATE 10/15/2024

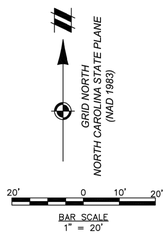
10/25/24: ADD ZONING INFORMATION
12/24/24: UPDATE SUBJECT AREA

REVISIONS

DWG. MAH | CH. KMK
P.M. CRE
CODE AS
JOB 24001422
SHEET NO. 1 OF 2

FILE NAME: K:\24001422 NW Store 0595 - Cameron, NC\DWG\Survey\24001422SE-22.dwg LAST SAVED BY: dgeleta 12/24/2024 2:14 PM PLOTTED BY: Doug Stripling 1/2/2025 PAPER: ARCH D (24.00 X 36.00 INCHES) STYLE: BASE-STANDARD.CTB





ABBREVIATIONS

BM	=	BENCHMARK
CONC	=	CONCRETE
DB	=	DEED BOOK
FFE	=	FINISHED FLOOR ELEVATION
INV	=	INVERT
IRF	=	IRON ROD FOUND
LB	=	LICENSED BUSINESS
(M)	=	MEASURED
MH	=	MANHOLE
NAD	=	NORTH AMERICAN DATUM
NAVD	=	NORTH AMERICAN VERTICAL DATUM
PB	=	PLAT BOOK
PG	=	PAGE
PID	=	PARCEL IDENTIFICATION NUMBER
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PVC	=	POLYVINYL CHLORIDE
(R)	=	RECORD
RCP	=	REINFORCED CONCRETE PIPE
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RTK	=	REAL-TIME KINEMATIC
R/W	=	RIGHT-OF-WAY
SQ FT	=	SQUARE FEET
VRS	=	VIRTUAL REFERENCE STATION

LEGEND

BENCHMARK		TREE	
BOUNDARY MARKER FOUND		SHRUB	
SANITARY MANHOLE	(S)	TITLE EXCEPTION NUMBER	(#)
GREASE TRAP	(G)	SPOT ELEVATION	x11.20
SANITARY CLEAN OUT		BUILDING STRUCTURE	
BOLLARD		STRUCTURE OVERHANG	
SIGN		CONCRETE PAVEMENT	
FLOOD LIGHT		ASPHALT PAVEMENT	
LIGHT POLE		SUBJECT BOUNDARY LINE	
ELECTRIC TRANSFORMER		ADJACENT BOUNDARY LINE	
GAS VALVE		EASEMENT	
TELECOM RISER		RIGHT OF WAY LINE	R/W
ELECTRIC RISER		FENCE	X
WARNING POST TELECOM		GUARD RAIL	
WARNING POST GAS		GROUND CONTOUR	40
HYDRANT		UNDERGROUND TELECOM	T
WATER VALVE		UNDERGROUND ELECTRIC	E
IRRIGATION CONTROL VALVE		UNDERGROUND GAS	G
WATER METER	(W)	UNDERGROUND WATER	W
DROP INLET		STORM SEWER	
STORM MANHOLE		SANITARY SEWER	SS

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LOCATED IN HARNETT COUNTY NORTH CAROLINA

CLIENT: WALMART, INC.

ALTA/NSPS LAND TITLE SURVEY
2800 NC HIGHWAY 24-87
CAMERON, NC

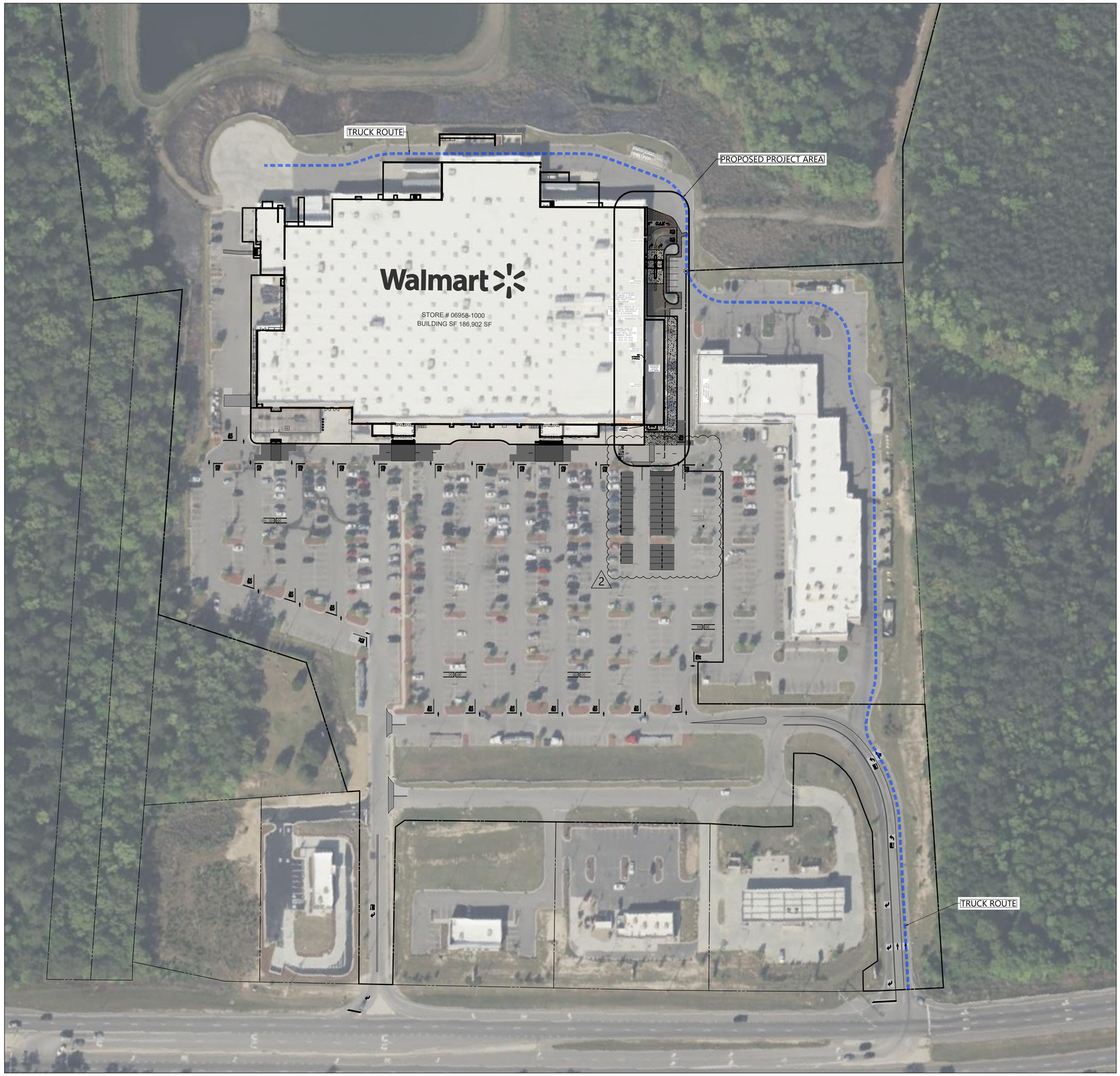
DATE 10/15/2024

10/25/24: ADD ZONING INFORMATION
12/24/24: UPDATE SUBJECT AREA

REVISIONS

DWG. MAH	CH. KMK
P.M. CRE	
CODE AS	
JOB 24001422	
SHEET NO. 2 OF 2	

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0 30' 60'
SCALE: 1"=60'

OVERALL SITE PLAN

REVISIONS	BY
1 07/02/2025 PR #1	GJ
2 03/25/2026 CCD #4	BEN

ATWELL
865.850.4200 www.atwell-group.com
1850 PARKWAY PLACE, SUITE 650
MARIETTA, GA
30067-8292
ATWELL, LLC DBA ATWELL, PLLC COA# P-2380

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 20128 JAMES A. LOWE
03/25/2026

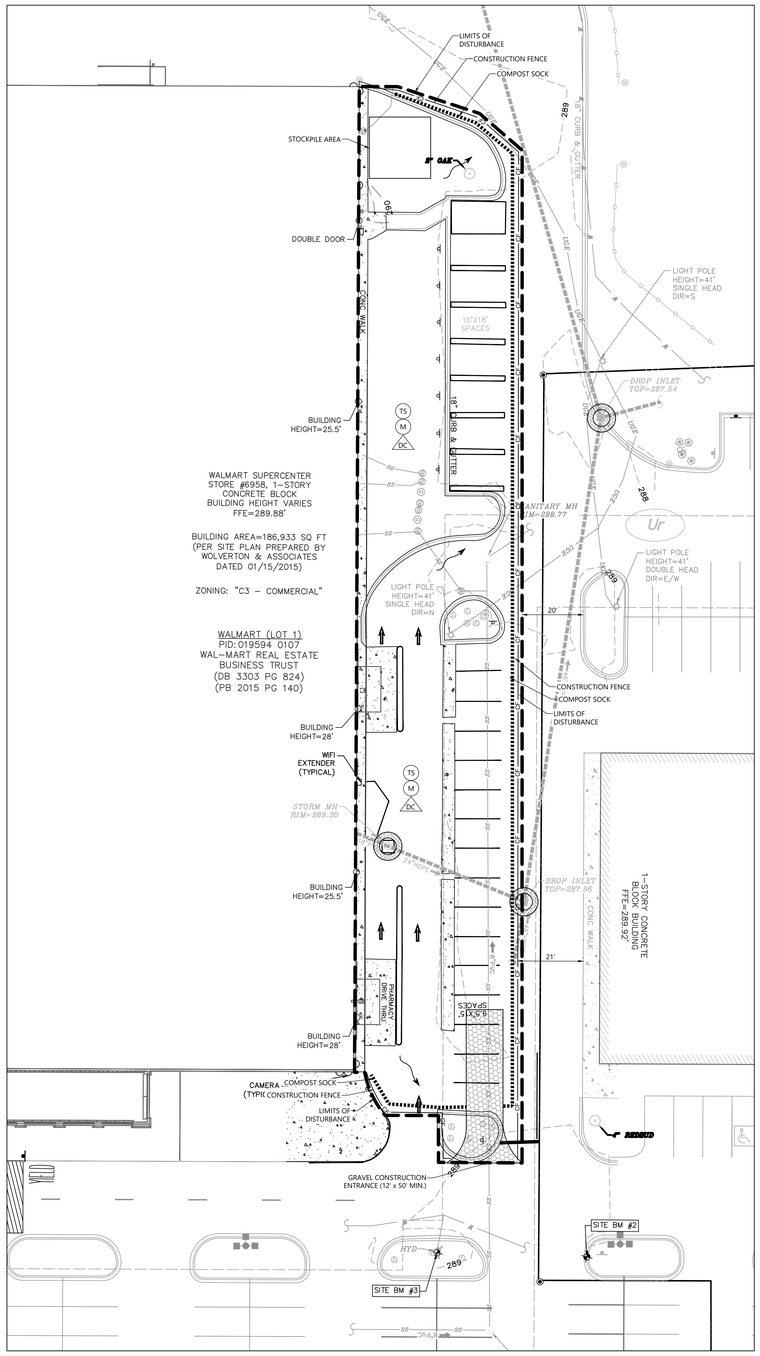
SUPERCENTER #06958-1000
2800 NC-24 #87
TOWN OF CAMERON, HARNETT COUNTY, NORTH CAROLINA

WALMART REAL ESTATE BUSINESS TRUST
BENTONVILLE, AR

Walmart

DRAWN	GJ
CHECKED	BL
DATE	12-09-2024
SCALE	1"=60'
JOB No.	24001422
SHEET	C030

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CONSTRUCTION SEQUENCE

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INSTALL TEMPORARY SESC MEASURES PRIOR TO ANY DEMOLITION OPERATION														
BUILDING DEMOLITION														
SITE DEMOLITION														
ROUGH GRADING														
INSTALL STORY SEWER SYSTEM														
CONSTRUCT BUILDING FOUNDATIONS AND PADS														
BEGIN BUILDING CONSTRUCTION														
INSTALL UTILITIES														
BRING PAVEMENT AREAS TO SUB-BASE GRADE, PLACE SUB-BASE AND BITUMINOUS PAVEMENT														
FINISH GRADE, REDISTRIBUTE TOP SOIL, SEED AND MULCH (OR SOD) ALL DISTURBED AREAS														
COMPLETE CONSTRUCTION OF BUILDING AND SITE														
INSURE ALL SOIL IS STABILIZED. REMOVE ALL TEMPORARY SESC MEASURES														

* TO BE COMPLETED BY CONTRACTOR PRIOR TO THE START OF CONSTRUCTION

EROSION CONTROL LEGEND

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE	
CONSTRUCTION FENCE	CF
SILT FENCE	SF
COMPOST SOCK	
TEMPORARY INLET SEDIMENT TRAP (SEDIMENT BAG)	
DUST CONTROL	DC
MULCHING	M
DISTURBED AREA TEMPORARY SEEDING	TS
SOIL DELINEATION LINE	
SOIL TYPE SERIES	HgC2
LIMITS OF DISTURBANCE LINE	
FLOW ARROW PROPOSED	2%
FLOW ARROW EXISTING	

EROSION CONTROL DATA

TOTAL PROPERTY AREA	34.39± AC
DISTURBED AREA	0.41± AC

SOIL SERIES

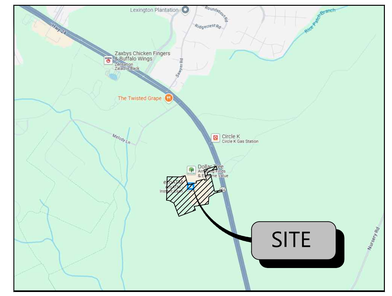
Ur	URBAN LAND

OWNER

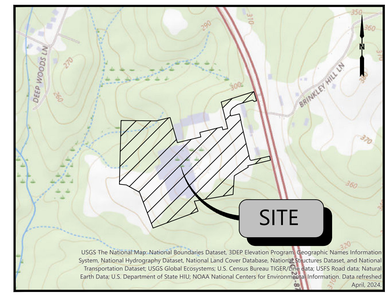
(RESPONSIBLE PARTY FOR TEMPORARY & PERMANENT EROSION CONTROL MEASURES)
WALMART REAL ESTATE BUSINESS TRUST
8050 P.O. BOX
BENTONVILLE, AR 72712
PHONE: (479) 448-1151
CONTACT: LAURIE LAMMEY
EMAIL: LAURIE.LAMMEY@WALMART.COM

RECEIVING WATERS

THE ULTIMATE OUTLET FOR THIS SITE IS OVERHILLS LAKE.



VICINITY MAP
N.T.S.



USGS MAP
N.T.S.

E&SC OPERATIONS TIME SCHEDULE

NOTE: GENERAL CONTRACTOR TO REVIEW & UPDATE TABLE ACCORDINGLY DUE TO ANY CHANGE IN CONSTRUCTION START DATE

CONSTRUCTION SEQUENCE	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP							
SITE TEMP. SESC	X	X	X	X	X										
SITE DEMOLITION	X														
STRIP & STOCKPILE TOPSOIL	X														
ROUGH GRADE		X	X												
STORM FACILITIES			X	X											
SITE CONSTRUCTION & UTILITIES			X	X	X										
FOUNDATION / BUILDING CONSTRUCTION				X	X	X									
FINISH GRADING					X										
LANDSCAPING/PERMANENT STABILIZATION						X									

STREET CLEANING SCHEDULE

	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
SCRAPE STREETS		X	X	X	X	X	
SWEEP STREETS				X			

SOIL EROSION CONTROL MAINTENANCE TASKS AND SCHEDULE

During Construction

TO BE PERFORMED BY CONTRACTOR

TASKS	COMPONENTS: STORM DRAINAGE SYSTEM	SWALES	CATCH BASIN INLET CASTINGS	SITE DISTURBED AREA	SCHEDULE
INSPECT FOR SEDIMENT ACCUMULATION	X	X	X	X	WEEKLY
REMOVAL OF SEDIMENT ACCUMULATION	X	X		X	AS NEEDED* AND PRIOR TO TURNOVER
INSPECT FOR FLOATABLES AND DEBRIS	X	X	X		QUARTERLY
CLEANING FOR FLOATABLES AND DEBRIS	X	X	X		QUARTERLY AND AT TURNOVER
INSPECTION FOR EROSION				X	WEEKLY
REESTABLISH PERMANENT VEGETATION ON ERODED SLOPES				X	AS NEEDED AND PRIOR TO TURNOVER
INSPECT STRUCTURAL ELEMENTS DURING WET WEATHER AND COMPARE TO AS-BUILT PLANS (BY A PROFESSIONAL ENGINEER REPORTING TO THE OWNER)	X				ANNUALLY AND AT TURNOVER
MAKE ADJUSTMENTS OR REPLACEMENTS AS DETERMINED	X			X	AS NEEDED

* "AS NEEDED" MEANS WHEN SEDIMENT HAS ACCUMULATED TO A MAXIMUM OF ONE FOOT DEPTH

Permanent Maintanance

TO BE PERFORMED BY OWNER OR OWNER'S REP.

TASKS	COMPONENTS: GRAD AREAS	PARKING AREAS	STORM DRAINAGE SYSTEM	CATCH BASIN SUMPS	CATCH BASIN INLET CASTINGS	UNDERGROUND DETENTION SYSTEM	SCHEDULE
INSPECT FOR SEDIMENT ACCUMULATION		X	X		X	X	SEMI-ANUALLY AS NEEDED*
REMOVAL OF SEDIMENT ACCUMULATION		X	X		X	X	ANUALLY AS NEEDED*
INSPECT FOR FLOATABLES AND DEBRIS		X	X	X	X	X	ANNUALLY
CLEANING FOR FLOATABLES AND DEBRIS		X	X	X	X	X	ANNUALLY
INSPECTION FOR EROSION					X	X	ANNUALLY
REESTABLISH PERMANENT VEGETATION ON ERODED SLOPES					X	X	AS NEEDED
CLEAN DRIVES AND PARKING LOTS	X						SEMI-ANNUALLY
INSPECT STRUCTURAL ELEMENTS DURING WET WEATHER AND COMPARE TO AS-BUILT PLANS (BY A PROFESSIONAL ENGINEER REPORTING TO THE OWNER)			X		X	X	ANNUALLY
MAKE ADJUSTMENTS OR REPLACEMENTS AS DETERMINED BY ANNUAL WET WEATHER INSPECTION			X		X	X	AS NEEDED
OWNER TO HAVE A PROFESSIONAL ENGINEER CARRY OUT EMERGENCY INSPECTIONS UPON IDENTIFICATION OF SEVERE PROBLEMS			X	X	X	X	AS NEEDED

* "AS NEEDED" MEANS WHEN SEDIMENT HAS ACCUMULATED TO A MAXIMUM OF ONE FOOT DEPTH

NOTE:
PERMANENT MAINTENANCE OF SOIL EROSION CONTROL TO BE THE RESPONSIBILITY OF THE PROPERTY OWNER.

EROSION CONTROL NOTES

1. ALL EROSION AND SEDIMENTATION CONTROL DEVICES SHALL CONFORM TO THE LATEST EROSION AND SEDIMENT CONTROL REGULATIONS FOR THE STATE, COUNTY, AND/OR CITY.
2. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES, AND MAINTAINED DURING SUCH ACTIVITIES.
3. WHEN ANY CONSTRUCTION BORDERS A DRAINAGE COURSE, THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ANY BUILDING OR OTHER EXCAVATION SPOILED DIRT, CONSTRUCTION TRASH OR DEBRIS, ETC. FROM THE DRAINAGE AREAS SHOWN HEREON IN AN EXPEDITIOUS MANNER AS CONSTRUCTION PROGRESSES.
4. EROSION CONTROL MEASURES ARE TO BE PLACED AT DOWNSTREAM TOE OF ALL CUT AND FILL SLOPES. WIRE REINFORCED BACKING (TYPE C) SILT FENCE TO BE USED UNLESS OTHERWISE INDICATED.
5. SILT FENCE MUST MEET REQUIREMENTS OF THE SPECIFICATIONS CONTAINED IN THE CONSTRUCTION DETAILS OR AN EQUIVALENT PRODUCT APPROVED BY THE OWNER'S REPRESENTATIVE.
6. PRIOR TO ANY OTHER CONSTRUCTION A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE BUILT. THE CONSTRUCTION ENTRANCE/EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH STONE. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLE OR SITE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.
7. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE ACTIVITY SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS. IF WETLANDS EXIST ON-SITE, ANY CLEARING MUST BE IN ACCORDANCE WITH THE WETLANDS PERMIT.
8. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCES/EXITS, ALL PERIMETER EROSION DEVICES AND STORMWATER MANAGEMENT DEVICES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.
9. OWNER AGREES TO PROVIDE AND MAINTAIN OFF-STREET PARKING ON THE SUBJECT PROPERTY DURING THE ENTIRE CONSTRUCTION PERIOD.
10. THE CONSTRUCTION OF THE SITE WILL COMMENCE WITH THE INSTALLATION OF EROSION CONTROL MEASURES SUFFICIENT TO CONTROL SEDIMENT DEPOSITS AND EROSION. ALL SEDIMENT CONTROL WILL BE MAINTAINED UNTIL ALL UPSTREAM GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILIZED WITH PERMANENT VEGETATION AND ALL ROADS/DRIVEWAYS HAVE BEEN PAVED.
11. EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO GROUND DISTURBANCE. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FORM THE FINAL PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
12. CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED.
13. THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE SILT IS WITHIN 12" OF THE TOP OF THE SILT FENCE UTILIZED FOR EROSION CONTROL. IN THE SEDIMENTATION POND, SEDIMENT REMOVAL IS REQUIRED WHEN SEDIMENT REACHES THE ELEVATION CORRESPONDING TO CLEANOUT BASIN.
14. FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED.
15. A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE WHENEVER LAND DISTURBANCE ACTIVITY IS IN PROGRESS.
16. ALL OPEN SWALES MUST BE GRASSED AND/OR RIP-RAP PLACED AS REQUIRED TO CONTROL EROSION. A MINIMUM OF 4.5 SQUARE YARDS OF 50-LB STONES SHALL BE PLACED AT ALL DOWNSTREAM HEADWALLS. THE PLACEMENT OF RIP-RAP AT THE DOWNSTREAM HEADWALLS SHALL BE PLACED IMMEDIATELY UPON THE INSTALLATION OF PIPES AND DRAINAGE DITCHES.
17. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH TEMPORARY SEEDING.
18. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION.
19. EROSION AND SEDIMENT CONTROL SHALL BE THE CONTRACTOR'S RESPONSIBILITY FOR COMPLIANCE, INSTALLATION, MAINTENANCE AND REMOVAL AS REQUIRED BY THE REGULATIONS OF THE STATE AND/OR GOVERNING AGENCY. THE INSTALLATION OF THE REQUIRED EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AS A FIRST STEP IN CONSTRUCTION.
20. CONTRACTOR TO MAINTAIN ON-SITE DAILY LOG OF ALL MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES. LOG SHALL BE MADE AVAILABLE FOR INSPECTION AT ALL TIMES. THE CONTRACTOR IS RESPONSIBLE TO SUBMIT THE NPDES NOTICE OF INTENT AND NOTICE OF TERMINATION TO THE APPROPRIATE STATE AGENCY.
21. THE CONTRACTOR IS RESPONSIBLE FOR UPHOLDING THE EROSION CONTROL STANDARDS FOR NORTH CAROLINA REGARDLESS OF WHAT SEDIMENT CONTROL MEASURES WERE INDICATED WITHIN THE PLAN SET.
22. FOR CALCULATIONS OF ANY BMPs SHOWN TO BE USED, SEE DETAIL SHEETS FOR THOSE NOT SHOWN ON THE PLAN.

EROSION AND SEDIMENTATION CONTROL PLAN

REVISIONS	BY

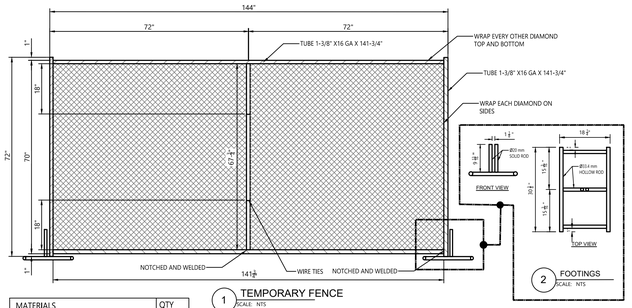
ATWELL
866.850.4200 www.atwell-group.com
1850 PARKWAY PLACE, SUITE 650
MARIETTA, GA
ATWELL, LLC DBA ATWELL, PLLC COA# P-2380

NORTH CAROLINA PROFESSIONAL SEAL 20378 ENGINEER MESA A. LOWE
12/18/2024

SUPERCENTER #06958-1000
2800 NC-24 #87
TOWN OF CAMERON, HARNETT COUNTY, NORTH CAROLINA
WALMART REAL ESTATE BUSINESS TRUST
BENTONVILLE, AR

DRAWN	GJ
CHECKED	BL
DATE	12-09-2024
SCALE	1"=20'
JOB No.	24001422
SHEET	C100

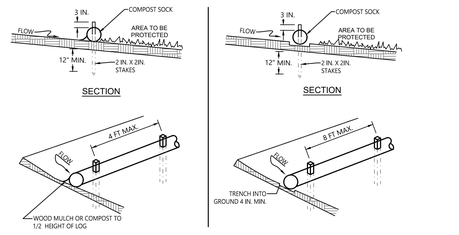
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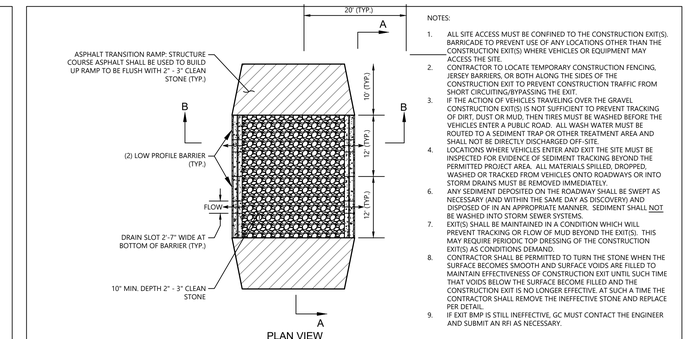
MATERIALS	QTY
TUBE 1-3/8" X16 GA X 141-3/4"	2
TUBE 1-3/8" X16 GA X 72	2
TUBE 1-3/8" X16 GA X 67-3/4"	1

CONSTRUCTION FENCE

OR EQUIVALENT



COMPOST SOCK



NOTES:

1. ALL SITE ACCESS MUST BE CONFINED TO THE CONSTRUCTION EXIT(S). BARRICADE TO PREVENT USE OF ANY LOCATIONS OTHER THAN THE CONSTRUCTION EXIT(S) WHERE VEHICLES OR EQUIPMENT MAY ACCESS THE SITE.
2. CONTRACTOR TO LOCATE TEMPORARY CONSTRUCTION FENCING, JERSEY BARRIERS, OR BOTH ALONG THE SIDES OF THE CONSTRUCTION EXIT TO PREVENT CONSTRUCTION TRAFFIC FROM SHORT CIRCUITING/BYPASSING THE EXIT.
3. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION EXIT(S) IS NOT SUFFICIENT TO PREVENT TRACKING OF DIRT, DUST OR MUD, THEN TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. ALL WASH WATER MUST BE ROUTED TO A SEDIMENT TRAP OR OTHER TREATMENT AREA AND SHALL NOT BE DIRECTLY DISCHARGED OFF-SITE.
4. LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE MUST BE INSPECTED FOR EVIDENCE OF SEDIMENT TRACKING BEYOND THE PERMITTED PROJECT AREA. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
6. ANY SEDIMENT DEPOSITED ON THE ROADWAY SHALL BE SWEPT AS NECESSARY (AND WITHIN THE SAME DAY AS DISCOVERY) AND DISPOSED OF IN AN APPROPRIATE MANNER. SEDIMENT SHALL NOT BE WASHED INTO STORM SEWER SYSTEMS.
7. EXIT(S) SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD BEYOND THE EXIT(S). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION EXIT(S) AS CONDITIONS DEMAND.
8. CONTRACTOR SHALL BE PERMITTED TO TURN THE STONE WHEN THE SURFACE BECOMES SMOOTH AND SURFACE VOIDS ARE FILLED TO MAINTAIN EFFECTIVENESS OF CONSTRUCTION EXIT UNTIL SUCH TIME THAT VOIDS BELOW THE SURFACE BECOME FILLED AND THE CONSTRUCTION EXIT IS NO LONGER EFFECTIVE. AT SUCH A TIME THE CONTRACTOR SHALL REMOVE THE INEFFECTIVE STONE AND REPLACE PER DETAIL.
9. IF EXIT BMP IS STILL INEFFECTIVE, GC MUST CONTACT THE ENGINEER AND SUBMIT AN RFI AS NECESSARY.

CEP CONSTRUCTION EXIT ON EXISTING PAVEMENT
N.T.S.

NOTE TO GC: THE GOAL OF A CONSTRUCTION EXIT AND ASSOCIATED WHEEL WASH AREAS IS TO ELIMINATE TRACK OUT. SIMPLY MANAGING TRACK OUT THROUGH DESIGNATED OR CONTINUAL STREET SWEEPING IS NOT AN ACCEPTABLE PRACTICE. WHILE STREET SWEEPING IS AN ACCEPTABLE PRACTICE FOR REMOVING DUST AND MINIMAL AMOUNTS OF FINE SEDIMENT, OBSERVABLE TRACK OUT FROM THE PROJECT SHOULD TRIGGER THE USE OF ADDITIONAL MEASURES (WHEEL WASH). CONSIDERATION OF ALTERNATE EXITS, OR DISCONTINUING VEHICLE TRAFFIC UNTIL CONDITIONS ON-SITE HAVE IMPROVED. TRACK OUT IS A SEDIMENT RELEASE. ALL SEDIMENT RELEASES MUST BE REPORTED TO THE SWCT VIA THE ONLINE CRITICAL INCIDENT REPORT.

LAST REVISED:	WAL-MART STANDARD DETAIL
APRIL 30, 2011	

CONSTRUCTION ENTRANCE

EROSION AND SEDIMENTATION CONTROL DETAILS 1

REVISIONS	BY

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NORTH CAROLINA PROFESSIONAL SEAL 20301 ENGINEER JAMES A. LOWE

12/18/2024

SUPERCENTER #06958-1000
2800 NC-24 #87
TOWN OF CAMERON, HARNETT COUNTY, NORTH CAROLINA

WALMART REAL ESTATE BUSINESS TRUST
BENTONVILLE, AR

Walmart

DRAWN	GJ
CHECKED	BL
DATE	12-09-2024
SCALE	
JOB No.	24001422
SHEET	C110

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CONSIDERATIONS FOR CONSTRUCTION SCHEDULING

CONSTRUCTION ACTIVITY	SCHEDULE CONSIDERATION
CONSTRUCTION ACCESS: Construction entrance, construction routes, equipment parking areas.	First land-disturbing activity- Stabilize bare areas immediately with gravel and temporary vegetation as construction takes place.
SEDIMENT TRAPS AND BARRIERS: Basin traps, sediment fences, and outlet protection.	Install principal basins after construction site is accessed. Install additional traps and barriers as needed during grading.
RUNOFF CONTROL: Diversions, perimeter dikes, water bars, and outlet protection.	Install key practices after principal sediment traps and before land grading. Install additional runoff-control measures during grading.
RUNOFF CONVEYANCE SYSTEM: Stabilize streambanks, storm drains, channels, inlet and outlet protection, and slope drains.	Where necessary, stabilize streambanks as early as possible. Install principal runoff conveyance system with runoff-control measures. Install remainder of system after grading.
LANDING CLEARING AND GRADING: Site preparation- cutting, filling and grading, sediment traps, barriers, diversions, drains, and surface roughening.	Begin major clearing and grading **AFTER** principal sediment and key runoff-control measures are installed. Clear borrow and disposal areas only as needed. Install additional control measures as grading progresses. Mark trees and buffer areas for preservation.
SURFACE STABILIZATION: Temporary and permanent seeding, mulching, sodding and riprap.	Apply temporary or permanent stabilization measures immediately on all disturbed areas where work is delayed or complete.
BUILDING CONSTRUCTION: Buildings, utilities, and paving.	Install necessary additional erosion and sedimentation control practices as work takes place.
LANDSCAPE AND FINAL STABILIZATION: Topsoiling, trees and shrubs, permanent seeding, mulching, sodding, and riprap.	Last construction phase: Stabilize all open areas, including borrow and spoil areas. Remove and stabilize all temporary control areas.

NOTE: The above are the main aspects of a typical construction sequence in general terms. A detailed Construction Sequence should be site specific based on your project and site needs. As a minimum, the construction sequence schedule should show the following:

- The erosion and sedimentation control practices to be installed,
- Principal development activities,
- What measures should be in place before other activities are begun, and
- Compatibility with the general construction schedule of the contract.

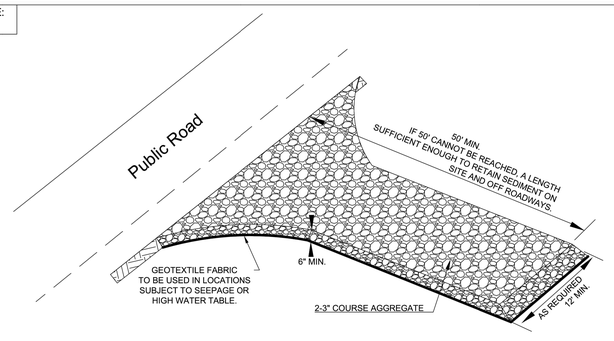
Many timely construction techniques can reduce the erosion potential of a site, such as (1) shaping earthen fills daily to prevent overflows and (2) constructing temporary diversions ahead of anticipated storms. These types of activities cannot be put on the construction sequence schedule, but should be used whenever possible.

CONSTRUCTION SEQUENCING

Effective Date: 9/1/2023
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Construction:
1. Clear the entrance and exit area of all vegetation, roots, and other objectionable material and properly grade it.
2. Place the gravel to the specific grade and dimensions shown on the plans, and smooth it.
3. Provide drainage to carry water to a sediment trap or other suitable outlet.
4. Use geotextile fabrics in order to improve stability of the foundation in locations subject to seepage or high water table.

Maintenance:
1. Inspect all measures at least weekly and after each rainfall of 1.0 inch or greater. Make any required repairs immediately.
2. Maintain the gravel pad in a condition to prevent mud or sediment from leaving the construction site. This may require periodic topdressing with 2-inch stone.
3. Sediment on roadways is to be removed immediately by broom and shovel, either by manual or mechanical means, and not to be washed off where it has the potential to enter a stream, drainage way or storm drain system.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT

Effective Date: 9/1/2023
In accordance with the 2013 Design Manual Updates

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TEMPORARY SEEDING RECOMMENDATIONS FOR LATE WINTER AND EARLY SPRING

Seeding Mixture

Species	Rate (lb/acre)
Rye (grain)	120
Annual lespedeza (Kobe in Piedmont and Coastal Plain, Korean in Mountains)	50

Omit annual lespedeza when duration of temporary cover is not to extend beyond June.

Seeding Dates
Mountains—Above 2500 feet: Feb. 15 - May 15
Below 2500 feet: Feb. 1- May 1
Piedmont—Jan. 1 - May 1
Coastal Plain—Dec. 1 - Apr. 15

Mulch
Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.

Maintenance
Refertilize if growth is not fully adequate. Reseed, refertilize and mulch immediately following erosion or other damage.

TEMPORARY SEEDING RECOMMENDATIONS FOR SUMMER

Seeding Mixture

Species	Rate (lb/acre)
German millet	40

In the Piedmont and Mountains, a small-stemmed Sudangrass may be substituted at a rate of 50 lb/acre.

Seeding Dates
Mountains — May 15 - Aug. 15
Piedmont — May 1 - Aug. 15
Coastal Plain — Apr. 15 - Aug. 15

Mulch
Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.

Maintenance
Refertilize if growth is not fully adequate. Reseed, refertilize and mulch immediately following erosion or other damage.

TEMPORARY SEEDING RECOMMENDATIONS FOR FALL

Seeding Mixture

Species	Rate (lb/acre)
Rye (grain)	120

Seeding Dates
Mountains — Aug. 15 - Dec. 15
Coastal Plain and Piedmont — Aug. 15 - Dec. 31

Mulch
Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.

Maintenance
Repair and refertilize damaged areas immediately. Topdress with 50 lb/acre of nitrogen in March. If it is necessary to extend temporary cover beyond June 15, overseed with 50 lb/acre Kobe (Piedmont and Coastal Plain) or Korean (Mountains) lespedeza in late February or early March.

SEED BED PREPARATION:

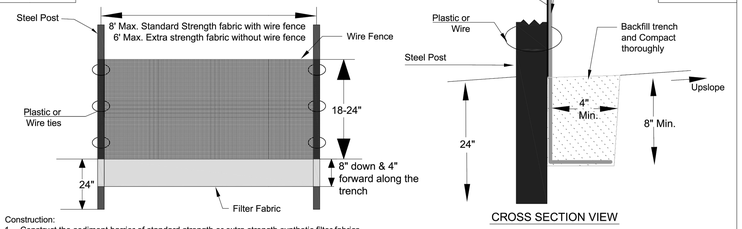
LIMING- Apply lime according to soil test recommendations. If the pH (acidity) of the soil is not known, an application of ground agricultural limestone at the rate of 1-1½ tons/acre on coarse-textured soils and 2-3 tons/acre on fine-textured soils is usually sufficient. Apply limestone uniformly and incorporate into the top 4-6 inches of soil. Soils with a pH of 6 or higher need not be limed.
FERTILIZER- Base application rates on soil tests. When these are not possible, apply a 10-10-10 grade fertilizer at 700 - 1,000 lb/acre. Both fertilizer and lime should be incorporated into the top 4-6 inches of soil. If a hydraulic seeder is used, do not mix seed and fertilizer more than 30 minutes before application.
SURFACE ROUGHENING- If recent tillage operations have resulted in a loose surface additional roughening may not be required, except to break up large clods. If rainfall causes the surface to become sealed or crusted, loosen it just prior to seeding by raking, harrowing, or other suitable methods for fine grading. The finished grade shall be a smooth even soil surface with a loosen uniformly fine texture. All ridges and depressions shall be removed and filled to provide the approved surface drainage. Planting is to be done immediately after finished grades are obtained and seedbed preparation is completed.

TEMPORARY SEEDING

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CROSS SECTION VIEW

Construction:
1. Construct the sediment barrier of standard strength or extra strength synthetic filter fabrics.
2. Ensure that the height of the sediment fence does not exceed 24 inches above the ground. (Higher fences may impound volumes of water sufficient to cause failure of the structure)
3. Construct the filter fabric from a continuous roll cut to the length of the barrier to avoid joints. When joints are necessary, securely fasten the filter cloth only at a support post with 4 feet minimum overlap to the next post.
4. Support standard strength filter fabric by wire mesh fastened securely to the upslope side of the posts. Extend the wire mesh support to the bottom of the trench. Fasten the wire reinforcement, then fabric on the upslope side of the fence post. Wire or plastic zip ties should have a minimum 50 pound tensile strength.
5. When a wire mesh support fence is used, space posts a maximum of 8 feet apart. Supports should be driven securely into the ground a minimum of 24 inches.
6. Extra strength filter fabric with 6 foot post spacing does not require a wire mesh support fence. Securely fasten the filter fabric directly to posts. Wire or plastic zip ties should have a minimum of 50 pound tensile strength.
7. Excavate the trench approximately 4 inches wide and 8 inches deep along the proposed line of the posts and upslope from the barrier.
8. Place 12 inches of fabric along the bottom and side of the trench.
9. Backfill the trench with soil placed over the filter fabric and compact. Thorough compaction of the backfill is critical to silt fence performance.
10. Do not attach filter fabric to existing trees.

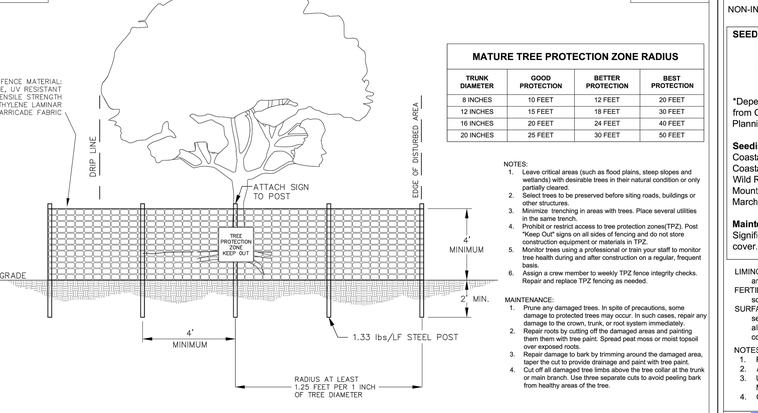
Maintenance:
1. Inspect sediment fences at least once a week and after each 1 inch or greater rainfall. Make any required repairs immediately.
2. Should the fabric of a sediment fence collapse, tear, decompose, or become ineffective, replace it promptly.
3. Remove sediment deposits as necessary to provide adequate storage volume for the next rain and reduce pressure on the fence. Take care to avoid undermining the fence during cleanouts.
4. Remove all fencing materials and unstable sediment deposits and bring the area to grade and stabilize it after the contributing drainage area has been properly stabilized.

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SILT FENCE

Date:

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MATURE TREE PROTECTION ZONE RADIUS

TRUNK DIAMETER	GOOD PROTECTION	BETTER PROTECTION	BEST PROTECTION
8 INCHES	10 FEET	12 FEET	20 FEET
12 INCHES	15 FEET	18 FEET	30 FEET
16 INCHES	20 FEET	24 FEET	40 FEET
20 INCHES	25 FEET	30 FEET	50 FEET

NOTES:
1. Leave critical areas (such as flood plains, steep slopes and wetlands) with desirable trees in their natural condition or only partially cleared.
2. Select trees to be preserved before siting roads, buildings or other structures.
3. Minimize trenching in areas with trees. Place several utilities in the same trench.
4. Prohibit or restrict access to tree protection zones(TPZ). Post "Keep Out" signs on all sides of fencing and do not store construction equipment or materials in TPZ.
5. Monitor trees using a professional or train your staff to monitor tree health during and after construction on a regular, frequent basis.
6. Assign a crew member to weekly TPZ fence integrity checks. Repair and replace TPZ fencing as needed.

MAINTENANCE:
1. Prune any damaged trees. In spite of precautions, some damage to protected trees may occur. In such cases, repair any damage to the crown, trunk, or root system immediately.
2. Repair roots by cutting off the damaged areas and painting them them with tree paint. Spread peat moss or moist topsoil over exposed roots.
3. Repair damage to bark by trimming around the damaged area, taper the cut to provide drainage and paint with tree paint.
4. Cut off all damaged tree limbs above the tree collar at the trunk or main branch. Use three separate cuts to avoid peeling bark from healthy areas of the tree.

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TREE PROTECTION ZONES

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NON-INVASIVE PERMANENT SEEDING RECOMMENDATIONS FOR LATE WINTER AND EARLY SPRING

SEEDING MIXTURE

Species	Rate
Centipede	5 lbs/acre
Indian Woodoats	1.5-2.5 lbs/acre*
Virginia Wild Rye	4-6 lbs/acre

*Depending upon mix with other species. See table 6.11.d from Chapter 6 of the NC Erosion and Sediment Control Planning and Design Manual.

Seeding Dates
Coastal or Eastern Piedmont for Centipede- Sept. 1 - May 1
Coastal and Piedmont for Indian Woodoats and Virginia Wild Rye- Feb 15 - April 1
Mountains for Indian Woodoats and Virginia Wild Rye- March 1 - May 15

Maintenance:
Significant maintenance may be required to obtain desired cover.

NON-INVASIVE PERMANENT SEEDING RECOMMENDATIONS FOR SUMMER

SEEDING MIXTURE

Species	Rate
Indian Woodoats	1.5-2.5 lbs/acre*
Virginia Wild Rye	4-6 lbs/acre*

*Depending upon mix with other species. See table 6.11.d from Chapter 6 of the NC Erosion and Sediment Control Planning and Design Manual.

Seeding Dates
Mountains - July 15- Aug 15
Piedmont - Aug 15 - Oct 15

Maintenance:
Indian Woodoats and Virginia Wild Rye are both sun and shade tolerant.

NON-INVASIVE PERMANENT SEEDING RECOMMENDATIONS FOR FALL

SEEDING MIXTURE

Species	Rate
Hard Fescue	15 lbs/acre
Switchgrass	2.5-3.5 lbs/acre*
Indian Grass	5-7 lbs/acre*
Big Bluestem	5-7 lbs/acre*
Indian Woodoats	1.5-2.5 lbs/acre*
Virginia Wild Rye	4-6 lbs/acre*

*Depending upon mix with other species. See table 6.11.d from Chapter 6 of the NC Erosion and Sediment Control Planning and Design Manual.

Seeding Dates
Mountains - Hard Fescue- Aug 1 - June 1
Mountains- Switchgrass, Indian Grass, Big Bluestem- Dec 1 - April 15
Piedmont and Coastal- Switchgrass, Indian Grass, Big Bluestem- Dec 1 - April 1
Coastal- Indian Woodoats and Virginia Wild Rye- Sept 1 - Nov 1

Maintenance:
Hard Fescue is not recommended for slopes > 5%. Prefers shade.

SEED BED PREPARATION:

LIMING- Apply lime according to soil test recommendations. If the pH (acidity) of the soil is not known, an application of ground agricultural limestone at the rate of 1 to 1 ½ tons/acre on coarse0textured soils and 2-3 tons/acre on fine-textured soils is usually sufficient. Apply limestone uniformly and incorporate into the top 4-6 inches of soil. Soils with a pH of 6 or higher need not be limed.
FERTILIZER- Base application rates on soil tests. When these are not possible, apply a 10-10-10 grade fertilizer at 700-1,000 lb/acre. Both fertilizer and lime should be incorporated into the top 4-6 inches of soil. If a hydraulic seeder is used, do not mix seed and fertilizer more than 30 minutes before application.
SURFACE ROUGHENING- If recent tillage operations have resulted in a loose surface additional roughening may not be required, except to break up large clods. If rainfall causes the surface to become sealed or crusted, loosen it just prior to seeding by raking, harrowing, or other suitable methods for fine grading, the finished grade shall be a smooth even soil surface with a loosen uniformly fine texture. all ridges and depressions shall be removed and filled to provide the approved surface drainage . Planting is to be done immediately after finished grades are obtained and seedbed preparation is completed.

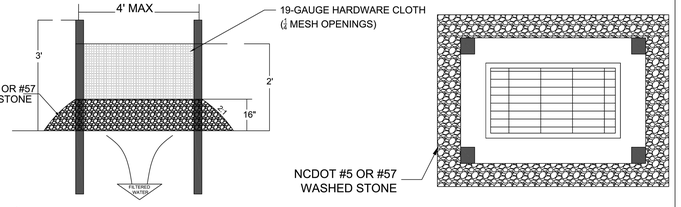
NOTES:
1. Permanent seeding, sodding or other means of stabilization are required when all construction work is completed according to the NPDES timeframes table.
2. A North Carolina Department of Agriculture soils test (or equal) is highly recommended to be obtained for all areas to be seeded, sprigged, sodded or planted.
3. Use a seeding mix that will produce fast0growing nurse crops and incudes non-invasive species that will eventually provide a permanent groundcover. Soil blankets may be used in lieu of nurse crops. Mat, tack or crimp mulch, as needed to stabilize seeded areas until root establishment. Mulch must cover at leaser 80% of the soil surface.
4. Ground cover shall be maintained until permanent vegetation is established and stable against accelerated erosion.

PERMANENT SEEDING

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Construction:
1. Uniformly grade a shallow depression approaching the inlet.
2. Drive 5-foot steel posts 2 feet into the ground surrounding the inlet. Space posts evenly around the perimeter of the inlet, a maximum of 4 feet apart.
3. Surround the posts with wire mesh hardware cloth. Secure the wire mesh to the steel posts at the top, middle, and bottom. Placing a 2-foot flap of the wire mesh under the gravel for anchoring is recommended.
4. Place clean gravel (NC DOT #5 or #57 stone) on a 2:1 slope with a height of 16 inches around the wire, and smooth to an even grade.
5. Once the contributing drainage area has been stabilized, remove accumulated sediment, and establish final grading elevations.
6. Compact the area properly and stabilize with groundcover.

Maintenance:
1. Inspect sediment fences at least once a week and after each 1 inch or greater rainfall. Make any required repairs immediately.
2. Clear the mesh wire of any debris or other objects to provide adequate flow for subsequent rains. Take care not to damage or undercut the mesh during sediment removal.
3. Replace stone as needed.

NORTH CAROLINA Environmental Quality
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INLET PROTECTION

DATE:

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Mulching Materials and Application Rates

Material Organic Mulches	Rate Per Acre	Quality	Notes
Straw	1-2 tons	Dry, unchopped, unweathered; avoid weeds.	Should come from wheat or oats; spread by hand or machine; must be tacked down.
Wood Chips	5-6 tons	Air dry	Treat with 12 lbs nitrogen/ton. Apply with mulch blower, chip handle, or by hand. Not for use in fine turf.
Wood Fiber	0.5-1 tons		Also referred to as wood cellulose. May be hydroseeded. Do not use in hot, dry weather.
Bark	35 cubic yards	Air dry, shredded or hammer-milled, or chips.	Apply with mulch blower, chip handler, or by hand. Do not use asphalt tack.
Corn Stalks	4-6 tons	Cut or shredded in 4-6 inch lengths.	Apply with mulch blower or by hand. Not for use in fine turf.
Sericea Lespedeza seed-bearing stems	1-3 tons	Green or dry; should contain mature seed.	
Nets and Mats*			
Jute net	Cover area	Heavy, uniform; woven of single jute yarn.	Withstands waterflow. Best when used with organic mulch
Fiberglass net	Cover area		Withstands waterflow. Best when used with organic mulch
Excelsior (wood fiber net)	Cover area		Withstands waterflow.
Fiberglass roving	0.5-1 tons	Continuous fibers of drawn glass bound together with a non-toxic agent.	Apply with a compressed air ejector. Tack with emulsified asphalt at a rate of 25-35 gal/1,000 sq. ft.
Chemical Stabilizers**			
Aquatain Aerospray Curasol AK Pertroset SB Terra Tack Crust 500 Geraqua 743 M-145	Follow Manufacturer's specifications		Not beneficial to plant growth

*Refer to Practice No. 6.30, Grass Lined Channels in the NC DEQ E&SC Planning and Design Manual
**Use of trade names does not imply endorsement of product.

NOTES:
1. Select material based on site and practice requirements, availability of material, labor and equipment.
2. Before mulching, complete grading, install sediment control practices, and prepare the seedbed. Apply seed before mulching **except** when seed is applied as part of a hydroseeder slurry containing wood fiber mulch or a hydroseeder slurry is applied over straw.

APPLICATION OF ORGANIC MULCH
1. Spread mulch uniformly by hand, or with a mulch blower.
2. When spreading straw mulch by hand, divide the area to be mulched into sections of approximately 1,000 ft², and place 70-90 lb. of straw(.1 1/2 to 2 bales) in each section to facilitate uniform distribution.
3. After Spreading, no more than 25% of the ground surface should be visible.
4. In hydroseeding operations a green dye, added to the slurry, assures a uniform application.

ANCHORING ORGANIC MULCH
1. Straw mulch must be anchored immediately after spreading.
2. A tractor-drawn implement designed to punch mulch into the soil or a mulch anchoring tool provides maximum erosion control with straw. A regular farm disk, weighted and set nearly straight, may substitute, but will not do a job comparable to the mulch anchoring tool. The disk should not be sharp enough to cut the straw. These methods are limited to slopes no steeper than 3:1, where equipment can operate safely.
3. Application of liquid mulch binders and tackifiers should be heaviest at the edges of areas and at crests of ridges and banks, to resist winds. Binder should be applied uniformly to the rest of the area. Binders may be applied after mulch is spread, or may be sprayed into the mulch as it is being blown onto the soil. Applying straw and binder together is the most effective method.
4. Emulsified asphalt should be applied at 0.10 gallons per square yard (10 gal/1,000 ft²). Heavier applications cause straw to "perch" over rills. Use Rapid setting (RS or CRS) designated asphalt in traffic areas to prevent uncured asphalt from being picked up on shoes and causing damage to rugs, clothes, etc.
5. Synthetic binders may be used as recommended by the manufacturer.
6. Lightweight plastic, cotton, jute, wire or paper nets may be stapled over the mulch according to the manufacturer's recommendations.
7. For small areas where other methods cannot be used, peg and twine anchoring can be used. Drive 8-10 inch wooden pegs to within 3 inches of the soil surface, every 4 feet in all directions. Stakes can be driven before or after straw is spread. Secure mulch by stretching twine between pegs in a criss-cross-within-a-square pattern. Turn twine two or more times around each peg.
8. Rye Grain may be used to anchor mulch in fall plantings, and German Millet in spring. Broadcast at 15 lb/acre before applying mulch.

CHEMICAL MULCHES
1. May be effective for soil stabilization if used between May 1 and June 15, or Sept. 15 and Oct. 15, provided that they are used on slopes **no steeper** than 4:1, and that proper seedbed preparation has been accomplished, including surface roughening where required.
2. Chemical mulches cannot be used to bind other mulches, or with wood fiber in a hydroseeded slurry at any time. Follow the manufacturer's recommendations for application.

FIBERGLASS ROVING
1. Spread roving uniformly over the area at a rate of 0.25 to 0.35 lb/yd². Anchor with asphalt immediately after application, at a rate of 0.25-0.35 gal/yd²
2. As a channel lining, and at other sites of concentrated flow, the roving mat must be further anchored to prevent undermining.
3. It may be secured with stakes placed at intervals no greater than 10 feet along the drainageway, and randomly throughout its width, but not more than 10 feet apart.
4. As an option to staking, the roving can be buried to a depth of 5 inches at the upgrade end and at intervals of 50 feet along the length of the channel.

NETS AND MATS
1. Nests alone generally provide little moisture conservation benefits and only limited erosion protection. Therefore, typically use in conjunction with an organic mulch such as straw.
2. Except when wood fiber slurry is used, netting should always be installed **over** the mulch. Wood fiber may be sprayed on top of an installed net.
3. Mats, including "excelsior" (wood fiber) blankets, are considered protective mulches and may be used alone.
4. Place the matting in firm contact with the soil, and staple securely.

MULCHING

Effective Date: 9/1/2023
In accordance with the 2013 Design Manual Updates

EROSION AND SEDIMENTATION CONTROL DETAILS 2

REVISIONS	BY

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 20376 CHAPEL A MESA, LOWE
12/18/2024

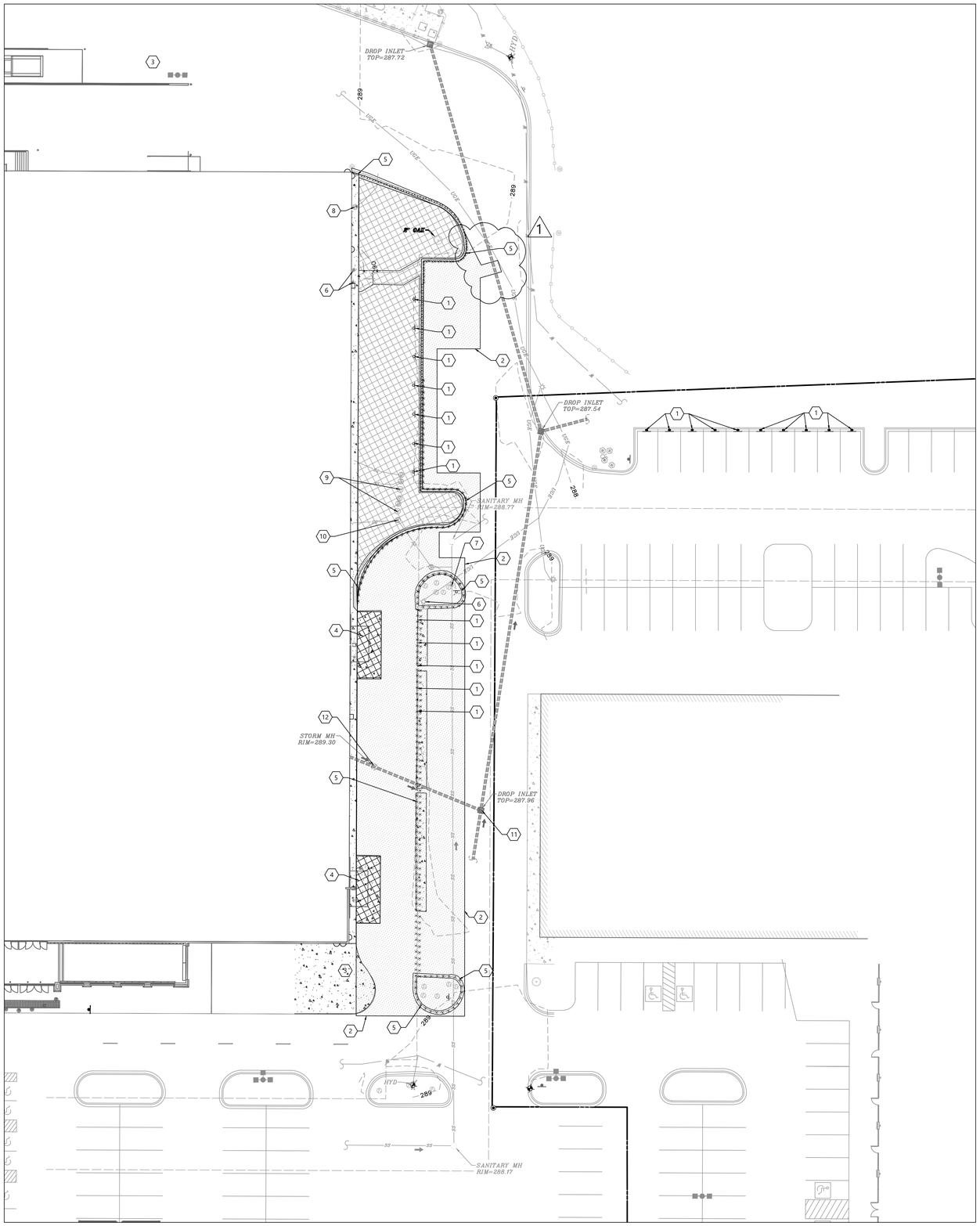
SUPERCENTER #06958-1000
2800 NC-24 #87
TOWN OF CAMERON, HARNETT COUNTY, NORTH CAROLINA

WALMART REAL ESTATE BUSINESS TRUST
BENTONVILLE, AR

Walmart

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DATE	12-09-2024
SCALE	
JOB No.	24001422
SHEET	C120

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DEMOLITION LEGEND

- ASPHALT TO BE SAW CUT AND REMOVED.
- LANDSCAPED AREA TO BE REMOVED.
- CONCRETE TO BE REMOVED.

DEMOLITION KEYNOTES

1. EXISTING PICKUP PARKING SIGNS TO BE REMOVED.
2. LIMITS OF ASPHALT REMOVAL.
3. EXISTING CONCRETE TO REMAIN.
4. EXISTING CONCRETE TO BE REMOVED.
5. EXISTING CURB AND GUTTER TO BE REMOVED.
6. EXISTING LIGHT POLE TO BE REMOVED.
7. EXISTING SIGN AND POST TO BE REMOVED.
8. EXISTING GAS METER AND REGULATOR TO REMAIN. PROTECT IN PLACE.
9. EXISTING GREASE TRAP WITH CLEANOUTS AND ACCESS PORTS TO REMAIN. ADJUST TO GRADE.
10. EXISTING SANITARY CLEAN-OUT TO REMAIN. ADJUST TO GRADE.
11. EXISTING DROP INLET. PROTECT IN PLACE.
12. EXISTING SIPHONIC MANHOLE TO BE RELOCATED OUTSIDE OF PROPOSED BUILDING FOOTPRINT.

DEMOLITION NOTES

1. ATWELL, LLC IS NOT RESPONSIBLE FOR JOB SITE SAFETY OR SUPERVISION. CONTRACTOR IS TO PROCEED WITH THE DEMOLITION IN A SYSTEMATIC AND SAFE MANNER, FOLLOWING ALL THE OSHA REQUIREMENTS, TO ENSURE PUBLIC AND CONTRACTOR SAFETY.
2. ALL DEMOLITION ACTIVITIES ARE TO BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AS WELL AS ALL FEDERAL, STATE, AND LOCAL REGULATIONS. ANY DISCREPANCIES OR DEVIATIONS SHALL BE IDENTIFIED BY THE CONTRACTOR TO ATWELL, LLC IN WRITING FOR RESOLUTION PRIOR TO INITIATION OF SITE ACTIVITY.
3. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING SITE IMPROVEMENTS AND UTILITIES. ALL DISCREPANCIES SHALL BE IDENTIFIED TO THE ENGINEER IN WRITING.
4. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING LOCATIONS OF ALL UTILITIES AND PIPING WHICH MIGHT INTERFERE WITH DEMOLITION. ANY DAMAGES TO UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
5. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING ALL UTILITIES BEFORE CONSTRUCTION AND VERIFYING LOCATION OF ALL UTILITIES SHOWN OR NOT SHOW.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND COST OF THE RELOCATION OF ALL UTILITIES ALONG THE RIGHT OF WAY AND ON THE SITE ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT, SUCH AS, BUT NOT LIMITED TO SIGNAL POLES, SIGNAL CONTROLS, DRAINAGE STRUCTURES, TRAFFIC SIGNS, UTILITY POLES, GUY WIRES, ETC.
7. ALL EXISTING UTILITIES BEING REMOVED SHALL BE DONE SO BY THE CONTRACTOR IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS
8. PRIOR TO STARTING ANY DEMOLITION CONTRACTOR IS RESPONSIBLE FOR/TO:
   A. REMOVAL OF ALL DEBRIS NOT ACCEPTABLE TO THE OWNER AND ENGINEER.
   B. ENSURING THAT COPIES OF ALL PERMITS AND APPROVALS MUST BE MAINTAINED ON SITE AND AVAILABLE FOR REVIEW.
   C. INSTALLING THE REQUIRED SOIL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO SITE DISTURBANCE.
   D. LOCATE/CAP ALL UTILITIES AND SERVICES, INCLUDING BUT NOT LIMITED TO GAS, WATER, ELECTRIC, SANITARY AND STORM SEWER, TELEPHONE, CABLE, FIBER OPTIC CABLE, ETC, WITHIN THE LIMITS OF DISTURBANCE.
   E. PROTECTING AND MAINTAINING IN OPERATION, ALL ACTIVE SYSTEMS THAT ARE NOT BEING REMOVED DURING ALL DEMOLITION ACTIVITIES.
   F. FAMILIARIZE THEMSELVES WITH THE APPLICABLE UTILITY SERVICE PROVIDER AND BE RESPONSIBLE FOR ALL COORDINATION REGARDING UTILITY DEMOLITION REQUIRED FOR THE PROJECT. THE CONTRACTOR SHALL PROVIDE THE OWNER WRITTEN NOTIFICATION THAT THE EXISTING UTILITIES AND SERVICES HAVE BEEN TERMINATED AND ABANDONED IN ACCORDANCE WITH JURISDICTION AND UTILITY COMPANY REQUIREMENTS.
   G. COORDINATION WITH UTILITY COMPANIES REGARDING WORKING "OFF-PEAK" HOURS OR ON WEEKENDS AS MAY BE REQUIRED TO MINIMIZE THE IMPACT ON THE AFFECTED PARTIES.
   H. A COMPLETE INSPECTION OF CONTAMINANTS BY A LICENSED ENVIRONMENTAL TESTING AGENCY, OF ALL BUILDINGS AND/OR STRUCTURES TO BE REMOVED. SAME SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL ENVIRONMENTAL REGULATIONS. ANY/ALL CONTAMINANTS SHALL BE REMOVED AND DISPOSED OF BY A FEDERALLY LICENSED CONTRACTOR IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS. ALL ENVIRONMENTAL WORK INCLUDING HAZARDOUS MATERIAL, SOILS, ASBESTOS, OR OTHER REFERENCED OR IMPLIED HEREIN IS THE SOLE RESPONSIBILITY OF THE OWNER'S ENVIRONMENTAL CONSULTANT.
9. THE CONTRACTOR SHALL PROVIDE ALL THE "MEANS AND METHODS" NECESSARY TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF EXISTING STRUCTURES, AND ANY OTHER IMPROVEMENTS THAT ARE REMAINING ON OR OFF SITE. THE DEMOLITION CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS OF DAMAGE TO ALL ITEMS THAT ARE TO REMAIN AS A RESULT OF HIS ACTIVITIES. ALL REPAIRS SHALL USE NEW MATERIAL. THE REPAIRS SHALL RESTORE THE ITEM TO THE PRE-DEMOLITION CONDITION.
10. IN THE ABSENCE OF SPECIFICATIONS, THE CONTRACTOR SHALL PERFORM EARTH MOVEMENT ACTIVITIES, DEMOLITION AND REMOVAL OF ALL FOUNDATION WALLS, FOOTINGS, AND OTHER MATERIALS WITHIN THE LIMITS OF DISTURBANCE IN ACCORDANCE WITH DIRECTION BY OWNER'S STRUCTURAL OR GEOTECHNICAL ENGINEER.
11. EXPLOSIVES SHALL NOT BE USED WITHOUT PRIOR WRITTEN CONSENT OF BOTH THE OWNER AND APPLICABLE GOVERNMENTAL AUTHORITIES. ALL THE REQUIRED PERMITS AND EXPLOSIVE CONTROL MEASURES THAT ARE REQUIRED BY THE FEDERAL, STATE, AND LOCAL GOVERNMENTS SHALL BE IN PLACE PRIOR TO STARTING AN EXPLOSIVE PROGRAM. THE CONTRACTOR IS ALSO RESPONSIBLE FOR ALL INSPECTION AND SEISMIC VIBRATION TESTING THAT IS REQUIRED TO MONITOR THE EFFECTS ON ALL LOCAL STRUCTURES.
12. THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AND GENERALLY ACCEPTED SAFE PRACTICES IN CONFORMANCE WITH: "THE MANUAL ON UNIFORM TRAFFIC CONTROL", AS WELL AS FEDERAL, STATE, AND LOCAL REGULATIONS WHEN DEMOLITION RELATED ACTIVITIES IMPACT ROADWAYS OR ROADWAY RIGHTS-OF-WAY.
13. THE CONTRACTOR SHALL CONDUCT DEMOLITION ACTIVITIES IN SUCH A MANNER AS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, SIDEWALKS, WALKWAYS, AND OTHER ADJACENT FACILITIES. STREET CLOSURE PERMITS MUST BE RECEIVED FROM THE APPROPRIATE GOVERNMENTAL AUTHORITY.
14. DEMOLITION ACTIVITIES AND EQUIPMENT SHALL NOT USE AREAS OUTSIDE THE DEFINED PROPERTY LINE WITHOUT WRITTEN PERMISSION OF THE OWNER, AND/OR APPROPRIATE GOVERNMENT AGENCY.
15. USE DUST CONTROL MEASURES TO LIMIT AIRBORNE DUST AND DIRT RISING AND SCATTERING IN THE AIR IN ACCORDANCE WITH FEDERAL, STATE, AND/OR LOCAL STANDARDS. AFTER THE DEMOLITION IS COMPLETE, ADJACENT STRUCTURES AND IMPROVEMENTS SHALL BE CLEANED OF ALL DUST AND DEBRIS CAUSED BY THE DEMOLITION OPERATIONS. THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL ADJACENT AREAS TO THEIR "PRE-DEMOLITION" CONDITION.
16. THE CONTRACTOR IS RESPONSIBLE TO SAFEGUARD THE SITE AS NECESSARY AND PERFORM THE DEMOLITION IN SUCH A MANNER AS TO PREVENT THE ENTRY OF UNAUTHORIZED PERSONS AT ANY TIME.
17. THIS DEMOLITION PLAN IS INTENDED TO IDENTIFY THOSE EXISTING ITEMS/CONDITIONS WHICH ARE TO BE REMOVED. IT IS NOT INTENDED TO PROVIDE DIRECTION OTHER THAN THAT ALL METHODS AND MEANS ARE TO BE IN ACCORDANCE WITH STATE, FEDERAL, LOCAL AND JURISDICTIONAL REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OSHA AND OTHER SAFETY PRECAUTIONS NECESSARY TO PROVIDE A SAFE WORK SITE.
18. PRIOR TO THE REMOVAL OF ANY MATERIALS THE AREA MUST BE SAW CUT TO PREVENT ANY DAMAGE OF THE ROADWAY
19. SUB-GRADE SHALL BE COMPACTED TO 98% MAXIMUM DENSITY AND TEST RESULTS SHALL BE PROVIDED BEFORE INSTALLATION OF NEW STRUCTURES.
20. ALL NEW FINISH ELEVATIONS SHALL MATCH EXISTING ADJACENT CONCRETE AND ASPHALT ELEVATIONS.
21. TREE(S) TO BE DEMOLISHED SHALL BE CLEARED AND GRUBBED. NO BURNING SHALL BE ALLOWED ON OWNER'S PROPERTY.

0 10' 20'
SCALE: 1"=20'

DEMOLITION PLAN

REVISIONS		BY
1 ADD 2	2025-09-10	MF

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 20361 JAMES A. LOWE
09/10/2025

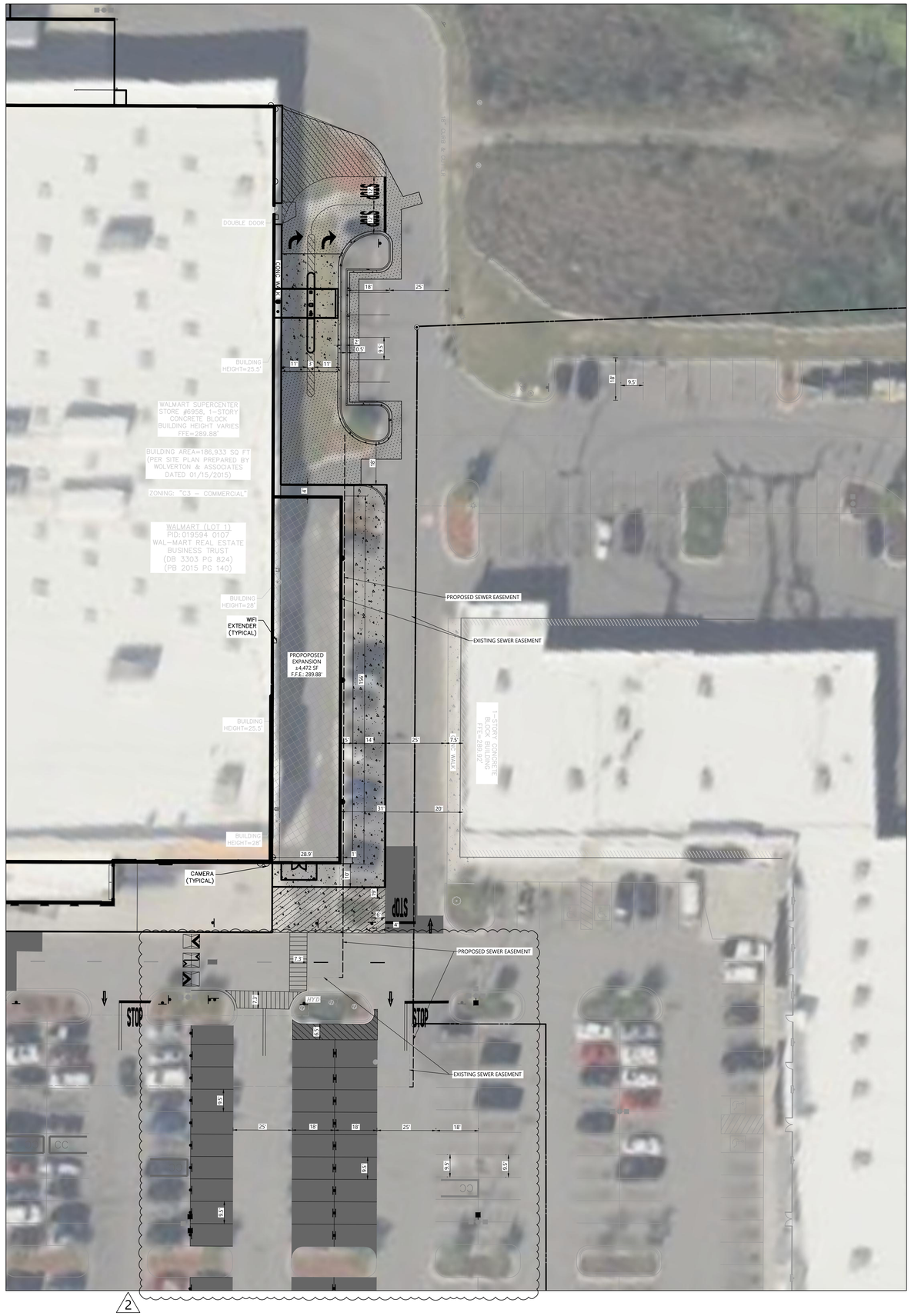
SUPERCENTER #06958-1000
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WALMART REAL ESTATE BUSINESS TRUST
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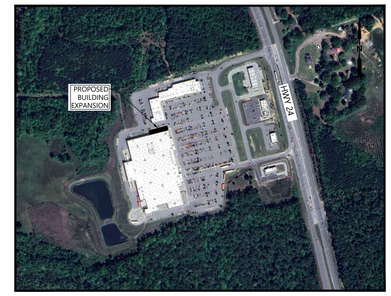
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SITE LEGEND

- EXISTING PROPERTY LINE
- EXISTING RIGHT-OF-WAY
- EXISTING SETBACK LINE
- PROPOSED RIGHT-OF-WAY
- PROPOSED SETBACK LINE
- 100 YEAR FLOOD PLAIN
- STOP BAR (PAVEMENT MARKING)
- TRAFFIC FLOW ARROW (PAVEMENT MARKING)
- PARKING SPACE COUNT
- SIGN
- LIGHT POLE
- CONCRETE
- STANDARD DUTY PAVING
- SEAL COAT



VICINITY MAP

N.T.S.

SITE AREA

TOTAL PROPERTY AREA:	34.39± AC
DISTURBED AREA:	0.41± AC

ZONING CLASSIFICATION

JURISDICTION:	HARNETT COUNTY
ZONING:	COMMERCIAL
ADJACENT ZONING:	RA-20

BUILDING SETBACKS

FRONT	35'
SIDE	0'
REAR	25'

BUILDING SUMMARY

PROPOSED BUILDING EXPANSION:	4,472± SF
EXISTING BUILDING AREA:	186,902± SF
BUILDING HEIGHT LIMIT:	35'

SITE NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PLANS AND SITE WORK SPECIFICATIONS AND SHALL COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL CODES.
2. REFERENCE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS, TRUCK DOCKS, SIDEWALKS, STEPS, TRANSFORMER PADS, ETC.
3. TOPOGRAPHIC BOUNDARY SURVEY, INCLUDING PROPERTY LINES, LEGAL DESCRIPTION, EXISTING UTILITIES, SITE TOPOGRAPHY WITH SPOT ELEVATIONS, OUTSTANDING PHYSICAL FEATURES AND EXISTING STRUCTURE LOCATIONS WAS PROVIDED BY THE FOLLOWING COMPANY, AS A CONTRACTOR TO THE SELLER/OWNER; ATWELL, LLC
4. ALL DIMENSIONS AND RADII ARE TO THE FACE OF CURB, UNLESS OTHERWISE NOTED. ALL DIMENSIONS SHOWN TO BUILDINGS ARE TO OUTSIDE FACE OF BUILDING.
5. ALL STRIPED OR CURBED RADII SHALL BE 5' UNLESS OTHERWISE NOTED.
6. CONCRETE TRUCK DOCKS ARE BY THE BUILDING CONTRACTOR.
7. ALL HANDICAP ACCESSIBLE PARKING SIGNS AND STRIPING SHALL BE IN ACCORDANCE WITH THE AMERICAN WITH DISABILITY ACT (ADA) REQUIREMENTS AND STATE CODE.
8. ALL TRAFFIC SIGNS SHALL CONFORM TO THE UNIFORM TRAFFIC CONTROL MANUAL AND THE STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION.
9. THE CONTRACTOR IS RESPONSIBLE FOR REPAIR OF ANY DAMAGE TO ANY EXISTING IMPROVEMENTS, ONSITE OR OFF SITE, SUCH AS PAVEMENT, UTILITIES, STORM DRAINAGE, ETC. THE REPAIR MUST BE APPROVED BY THE ENGINEER AND BE EQUAL OR BETTER THAN EXISTING CONDITIONS.
10. SITE LIGHTING SHALL BE INCLUDED IN THE GENERAL CONTRACTOR'S SCOPE OF WORK. ALL PARKING LOT LIGHTING POLES, BASES AND FIXTURES WITH LAMPS SHALL BE INSTALLED BY THE GENERAL CONTRACTOR'S ELECTRICAL CONTRACTOR AND SHALL SUPPLY A ONE YEAR WARRANTY CERTIFICATE.
11. CONTRACTOR SHALL OBTAIN ALL PERMITS BEFORE CONSTRUCTION BEGINS.
12. SITE CONTRACTOR SHALL SUPPLY AS-BUILT PLANS INDICATING ALL CHANGES AND DEVIATIONS.
13. ANY DEVIATION FROM THESE PLANS MAY CAUSE THE WORK TO BE UNACCEPTABLE.
14. ANY UNANTICIPATED CONDITIONS ENCOUNTERED DURING THE CONSTRUCTION PROCESS SHALL BE IDENTIFIED TO THE ENGINEER IMMEDIATELY.
15. ALL CONCRETE SHALL BE 3,500 PSI 28 DAY COMPRESSIVE STRENGTH.
16. PROJECT SIGNAGE SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
17. ALL CURB AND GUTTER WITHIN THE DEVELOPMENT SHALL BE 6". UNLESS NOTED OTHERWISE.
18. PARKING LOT STRIPING SHALL BE INCLUDED IN PAVING CONTRACTOR'S SCOPE OF WORK. STRIPING WILL BE ACCORDING TO OWNER'S SPECIFICATIONS UNLESS NOTED OTHERWISE. ALL STRIPING IS TO HAVE TWO (2) COATS OF PAINT (MIN).
19. LIGHT POLE BASES SHALL BE PAINTED TRAFFIC YELLOW PER SITE WORK SPECIFICATIONS.
20. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY AND ALL OFF-SITE EASEMENTS NOT DELINEATED ON PLANS OR KNOWN OF AT TIME OF PLAN ISSUANCE.
21. THE SITE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL WORK AND APPURTENANCE TO WITHIN 5' OF THE BUILDING. THIS INCLUDES TRANSFORMER AND DUMPSTER PADS AS WELL AS ALL UTILITY CONDUITS.

NOTES TO CONTRACTOR:

1. REFERENCE SITE CONSTRUCTION PLAN FOR SITE SPECIFIC DIMENSIONS OF CROSSWALK STRIPING AND LOCATION OF SIGNAGE.
2. PROVIDE A COMPREHENSIVE CONSTRUCTION PHASING PLAN FOR THIS WORK TO THE STORE MANAGER 7 DAYS PRIOR TO STARTING ANY WORK. IT IS TO PROVIDE FOR DATES, TIMES AND DURATION OF LANE CLOSURES, TEMPORARY VEHICLE AND PEDESTRIAN TRAFFIC CONTROL.
3. EXISTING STRIPING AND PAVEMENT MARKINGS OR TEXT THAT ARE NOT CORRECTLY LOCATED OR INCONSISTENT WITH THE DETAILS PROVIDED SHALL BE REMOVED. APPLY SEAL COAT TO THE COMPLETE EXTENT THAT THE STRIPING OR TEXT HAS BEEN REMOVED IN A SINGLE COMPLETE RECTANGLE TO COVER ALL REMOVED STRIPING (DO NOT APPLY SEAL COAT OVER EXISTING STRIPING OR CONCRETE). INSTALL NEW STRIPING AND SIGNAGE AS SHOWN ON THE SITE CONSTRUCTION PLAN.
4. ALL SIGNS LOCATED ON THE BUILDING SIDE OF THE BFR SHALL BE INSTALLED ON A SINGLE POST WITH BOLLARD.

0 10' 20'
SCALE: 1"=20'

SITE DIMENSION PLAN

REVISIONS	BY
1 03/25/2026 CCD #4	BEN

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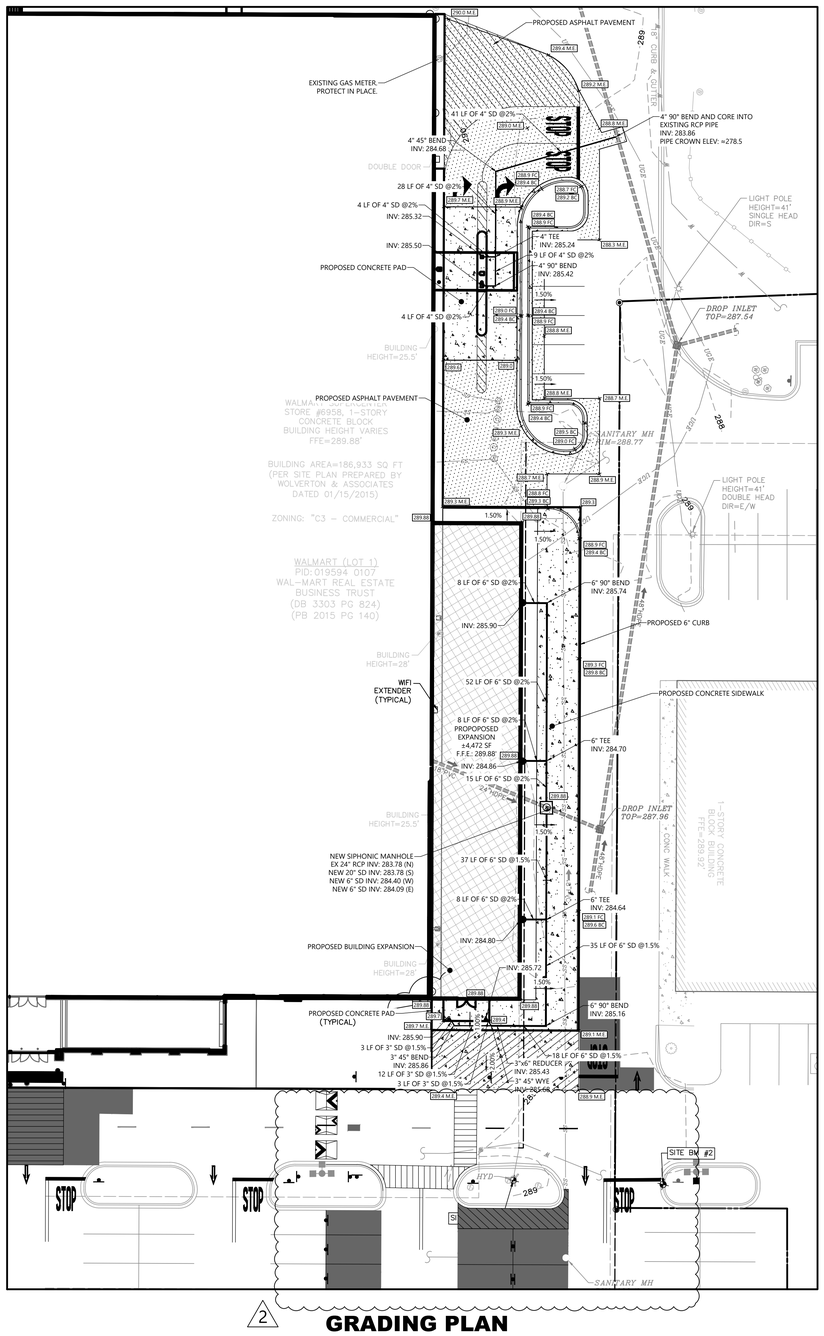
NORTH CAROLINA PROFESSIONAL SEAL 20128 ENGINEER JAMES A. LOWE
03/25/2026

SUPERCENTER #06958-1000
2800 NC-24 #87
TOWN OF CAMERON, HARNETT COUNTY, NORTH CAROLINA
WALMART REAL ESTATE BUSINESS TRUST
BENTONVILLE, AR

Walmart

DRAWN	GJ
CHECKED	BL
DATE	12-09-2024
SCALE	1"=20'
JOB No.	24001422
SHEET	C200

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2 **GRADING PLAN**

LEGEND

- EXISTING PROPERTY LINE
- EXISTING RIGHT-OF-WAY
- EXISTING SETBACK LINE
- PROPOSED RIGHT-OF-WAY
- PROPOSED SETBACK LINE
- 100 YEAR FLOOD PLAIN
- 123 EXISTING MINOR CONTOURS
- 123 EXISTING MAJOR CONTOURS
- 123 PROPOSED MINOR CONTOUR
- 123 PROPOSED MAJOR CONTOUR
- PROPOSED BREAK LINE
- EXISTING STORM LINE
- PROPOSED STORM LINE
- SS SEWER LINE
- UGE ELECTRIC UNDERGROUND LINE
- UGT TELEPHONE UNDERGROUND LINE
- #W WATER LINE #=SIZE
- SANITARY SEWER MANHOLE
- SANITARY SEWER CLEANOUT
- 123.4 PROPOSED SPOT ELEV
- 2% SLOPE ARROW
- WATER BEND 45°
- WATER BEND 22.5°
- WATER BEND 11.25°
- STORM MANHOLE

FC=FACE OF CURB ELEVATION;
BC=BACK OF CURB/TOP OF CURB ELEVATION.
TC=TOP OF CONCRETE ELEVATION.
ME=PROPOSED GRADE TO MATCH EXISTING GRADE.
TW=TOP OF RETAINING WALL ELEVATION.
BW=BOTTOM OF RETAINING WALL ELEVATION.
P=TOP OF PAVEMENT

GRADING NOTES

1. INFORMATION CONCERNING SITE SOIL CONDITIONS WILL BE PROVIDED BY THE OWNER.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL DEBRIS NOT ACCEPTABLE TO THE OWNER AND ENGINEER.
3. IF THE CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THE CONTRACTOR SHALL MAKE A TOPOGRAPHIC SURVEY AT THEIR OWN EXPENSE AND SUBMIT IT TO THE OWNER FOR REVIEW.
4. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES BEFORE CONSTRUCTION AND VERIFYING LOCATION OF ALL UTILITIES SHOWN OR NOT SHOWN.
5. THE CONTRACTOR SHALL PROVIDE DRAINAGE AWAY FROM THE BUILDINGS.
6. PRECAST STRUCTURES MAY BE USED AT THE CONTRACTOR'S OPTION.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND COST OF THE RELOCATION OF ALL UTILITIES ALONG THE RIGHT OF WAY AND ON THE SITE ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT, SUCH AS, BUT NOT LIMITED TO SIGNAL POLES, SIGNAL CONTROLS, DRAINAGE STRUCTURES, TRAFFIC SIGNS, UTILITY POLES, GUY WIRES, ETC.
8. IN ALL AREAS WHERE NEW CURB AND GUTTER ARE INSTALLED, REMOVE ALL OLD CURB AND GUTTER AND SAW CUT A STRAIGHT EDGE ALONG ASPHALT.
9. THE EARTHWORK FOR ALL BUILDING FOUNDATIONS AND SLABS SHALL BE IN ACCORDANCE WITH ARCHITECTURAL PLANS AND SPECIFICATIONS.
10. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURBS, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
11. ALL SLOPES AND DISTURBED AREAS NOT COVERED BY BUILDING OR PAVEMENT SHALL BE GRADED SMOOTH AND RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR TO PROVIDE TOPSOIL IF NOT AVAILABLE ON SITE. THE AREAS SHALL BE SEEDED, MULCHED, FERTILIZED AND WATERED TO PROVIDE A HEARTY MOWABLE STAND OF GRASS. SMALL ROCKS MUST BE REMOVED. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE PROJECT SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
12. SPOIL FROM FOOTINGS IS THE SITE CONTRACTOR'S RESPONSIBILITY. CONTRACTOR IS TO USE THE SOIL ON SITE OR REMOVE IT FROM THE SITE.
13. EARTHWORK SHALL BE ON AN UNCLASSIFIED BASIS.
14. ANY FILL USED TO INCREASE THE ELEVATION OF THE FLOOR SLAB OR ANY FILL TO BE USED AS BACKFILL, SHALL BE CLEAN, GRANULAR MATERIAL. PRIOR TO THE USE OF ANY GRANULAR FILL, GRADATION ANALYSIS SHALL BE PERFORMED ON REPRESENTATIVE SAMPLES OF THE FILL MATERIAL TO DETERMINE WHETHER THE MATERIAL IS SUITABLE AS FILL. COMPACTED FILL SHALL BE PLACED IN LAYERS OF NOT MORE THAN EIGHT INCHES IN THICKNESS, AT MOISTURE CONTENTS WITHIN THREE PERCENT OPTIMUM, AND COMPACTED TO MINIMUM DENSITY OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR METHOD, ASTM D-698.
15. ALL SPOT ELEVATIONS ARE TOP OF PAVEMENT OR FINISHED GROUND UNLESS OTHERWISE NOTED.
16. ALL GRADES SHOWN REFERENCE PROPOSED ELEVATIONS AT FACE OF CURB, UNLESS OTHERWISE NOTED.
    TC=TOP OF CONCRETE ELEVATION
    ME=PROPOSED GRADE TO MATCH EXISTING GRADE
    TW=TOP OF RETAINING WALL ELEVATION;
    BW=BOTTOM OF RETAINING WALL ELEVATION.
17. ALL SYSTEM MANHOLES AND PIPES TO BE FLUSHED CLEAN PRIOR TO TURNING OVER TO THE OWNER.
18. ALL PIPE LENGTHS LISTED ARE BASED ON THE HORIZONTAL DISTANCE FROM CENTER OF STRUCTURE AND USED FOR DESIGN.
19. THE CONTRACTOR IS RESPONSIBLE FOR COMPARING THE STORM SEWER AND SANITARY SEWER CHARTS WITH THE PROFILES FOR THE STORM SEWER AND SANITARY SEWER LINES AND INFORMING THE ENGINEER OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
20. THE GEOTECHNICAL REPORT AND RECOMMENDATIONS SET FORTH THEREIN ARE A PART OF THE REQUIRED CONSTRUCTION DOCUMENTS AND IN CASE OF CONFLICT SHALL TAKE PRECEDENCE UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF ANY SUCH DISCREPANCY BETWEEN GEOTECHNICAL REPORT AND PLANS, ETC.
21. THE FLOW IN ALL SEWERS, DRAINS, AND WATERCOURSES ENCOUNTERED SHALL BE MAINTAINED.
22. ALL SOIL EROSION AND SILT MUST BE CONTROLLED AND CONTAINED ON-SITE.
23. ALL INTERIOR ISLANDS SHALL BE MOUNDED. MINIMUM GRADE FOR POSITIVE DRAINAGE SHALL BE 2%.
24. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING LIDS. MANHOLES IN UNPAVED AREAS SHALL BE FLUSH WITH FINISH GRADE. LIDS SHALL BE LABELED PER TOWNSHIP REQUIREMENTS.
25. THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE GENERAL N.P.D.E.S. PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
26. ALL STORM STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR INVERT FROM INVERT IN TO INVERT OUT.
27. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING STORM SEWER STRUCTURES, PIPES, AND ALL UTILITIES PRIOR TO CONSTRUCTION.
28. ALL STUMPS, ROOTS, AND ORGANIC MATTER SHALL BE REMOVED TO A DEPTH OF TWO FEET MINIMUM BELOW THE BOTTOM OF THE BASE MATERIAL. ALL ROCKS LARGER THAN SIX INCHES SHALL BE REMOVED AND ALL ROCK LARGER THAN 3 INCHES, WHICH CANNOT BE READILY BROKEN BY MIXING OPERATIONS, SHALL BE REMOVED TO A DEPTH OF TWO FEET.

NOTES TO CONTRACTOR:

1. REFERENCE SITE CONSTRUCTION PLAN FOR SITE SPECIFIC DIMENSIONS OF CROSSWALK STRIPING AND LOCATION OF SIGNAGE.
2. PROVIDE A COMPREHENSIVE CONSTRUCTION PHASING PLAN FOR THIS WORK TO THE STORE MANAGER 7 DAYS PRIOR TO STARTING ANY WORK. IT IS TO PROVIDE FOR DATES, TIMES AND DURATION OF LANE CLOSURES, TEMPORARY VEHICLE AND PEDESTRIAN TRAFFIC CONTROL.
3. EXISTING STRIPING AND PAVEMENT MARKINGS OR TEXT THAT ARE NOT CORRECTLY LOCATED OR INCONSISTENT WITH THE DETAILS PROVIDED SHALL BE REMOVED. APPLY SEAL COAT TO THE COMPLETE EXTENT THAT THE STRIPING OR TEXT HAS BEEN REMOVED IN A SINGLE COMPLETE RECTANGLE TO COVER ALL REMOVED STRIPING (DO NOT APPLY SEAL COAT OVER EXISTING STRIPING OR CONCRETE). INSTALL NEW STRIPING AND SIGNAGE AS SHOWN ON THE SITE CONSTRUCTION PLAN.
4. ALL SIGNS LOCATED ON THE BUILDING SIDE OF THE BFR SHALL BE INSTALLED ON A SINGLE POST WITH BOLLARD.

0 10' 20'
SCALE: 1" = ##'

GRADING & UTLITY PLAN

REVISIONS		BY
1 ADD 2	2025-09-10	MF
2 03/25/2026	CCD #4	BEN

ATWELL
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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 20128 JAMES A. LOHR
03/25/2026

SUPERCENTER #06958-1000
2800 NC-24 #87
TOWN OF CAMERON, HARNETT COUNTY, NORTH CAROLINA
WALMART REAL ESTATE BUSINESS TRUST
BENTONVILLE, AR

Walmart

DRAWN	GJ
CHECKED	BL
DATE	12-09-2024
SCALE	1"=20'
JOB No.	24001422
SHEET	C300

FILE NAME: K:\24001422 WM Store 6958- Cameron, NC\DWG\Engineering\24 PRODUCTION\24001422 - GRADING & UTILITY PLAN.dwg LAST SAVED BY: brad 3/24/2026 7:44 AM PLOTTED BY: Brad Hall 3/24/2026 PAPER: ARCH E1 (30.00 X 42.00 INCHES) DEVICE: DWG TO PDF.PC3 PLOT STYLE: ATWELL.CTB



0 30' 60'
SCALE: 1" = 60'

SITE AND DEMOLITION KEYNOTES

REFERENCE DETAIL SHEET

- (A) EXISTING PEDESTRIAN CROSSING SIGN TO BE REMOVED.
- (B) EXISTING STOP SIGN TO BE REMOVED.
- (C) EXISTING SIGN POST TO BE REMOVED.
- (D) EXISTING SIGN POST AND BASE TO REMAIN.
- (E) EXISTING CROSSWALK STRIPING TO BE REMOVED.
- (F) EXISTING YIELD PAVEMENT MARKING TO BE REMOVED.
- (G) EXISTING CENTERLINE STRIPING TO BE REMOVED.
- (H) NEW "STOP HERE FOR PEDESTRIANS" SIGN.
- (J) NEW 30"X30" STOP SIGN.
- (K) NEW SIGN MOUNTING AND BASE WITH BOLLARD.
- (L) NEW "STOP" AND/OR "ONLY" TEXT AND/OR STOP BAR WITH 4" WIDE DOUBLE SOLID YELLOW STRIPE.
- (M) NEW 4" WIDE PAINTED YELLOW STRIPES AT 45° @ 2'-0" O.C.
- (N) NEW CROSSWALK MARKINGS - 6" WIDE PAINTED WHITE STRIPING PARALLEL TO DIRECTION OF TRAFFIC AT 2'-0" O.C. AND (1)-8" WHITE STRIPE PERPENDICULAR ON BOTH ENDS UNLESS NOTED OTHERWISE. SEE SITE PLAN FOR DIMENSIONS. ENTIRE CROSSWALK SHALL BE RE-STRIPED.
- (P) LIMITS OF SEAL COAT. APPLY SEAL COAT OVER WHERE STRIPING AND PAVEMENT MARKINGS WERE REMOVED.
- (Q) NEW 4" WIDE PAINTED YELLOW STRIPES - 6' LONG WITH 18' GAPS.
- (R) EXISTING STOP BAR AND STOP TEXT PAVEMENT MARKINGS TO BE REMOVED.
- (S) NEW OPEN ARROW PAVEMENT MARKINGS.
- (T) EXISTING ARROW PAVEMENT MARKINGS TO BE REMOVED.
- (U) NEW FIRE LANE STRIPING.
- (V) NEW 4" WIDE DOUBLE SOLID YELLOW STRIPE.
- (W) EXISTING STOP SIGN TO REMAIN.
- (X) EXISTING STOP SIGN TO BE RAISED TO MATCH CURRENT DETAILS/GUIDELINES.
- (Y) EXISTING BOLLARD AND SIGN POST TO BE REPAINTED.
- (Z) NEW SIGN MOUNTING AND BASE WITH BREAK AWAY POST.

- (a) EXISTING SOLID ARROW PAVEMENT MARKING TO BE REVISED / REFRESHED TO MATCH CURRENT DETAILS.
- (b) EXISTING CROSSWALK MARKINGS TO REMAIN / BE REFRESHED.
- (d) NEW 36" x 36" STOP SIGN WITH DOUBLE SIGN MOUNTING, BREAK AWAY POSTS, AND BASES.
- (e) NEW SOLID ARROW PAVEMENT MARKINGS.
- (f) EXISTING PAVEMENT MARKINGS, "STOP" TEXT AND/OR "ONLY" TEXT TO BE REVISED/ REFRESHED TO MATCH CURRENT DETAILS.
- (g) EXISTING MISCELLANEOUS SIGN TO REMAIN/ BE REUSED.
- (h) EXISTING STOP BAR TO REMAIN/ BE REFRESHED.
- (i) NEW CROSS TRAFFIC DOES NOT STOP PLAQUE.
- (k) EXISTING LANE STRIPING TO REMAIN/ BE REFRESHED.
- (m) NEW PAVEMENT MARKINGS, "STOP" TEXT AND/OR "ONLY" TEXT
- (n) EXISTING PICKUP PAVEMENT MARKINGS TO BE REMOVED.
- (o) EXISTING OPEN ARROW PAVEMENT MARKINGS TO REMAIN/ BE REFRESHED.
- (p) EXISTING PICKUP DIRECTIONAL SIGN TO BE REMOVED.
- (q) NEW PICKUP DIRECTIONAL SIGN. SEE PSS PLAN.
- (r) EXISTING "NO TRUCK" SIGN TO BE REMOVED.
- (s) NEW CART CORRAL (TYPICAL).

SITE ANALYSIS TABLE (EXISTING STORE)

	EXISTING	PROPOSED
TOTAL BUILDING AREA	186,902 ± S.F.	191,374 ± S.F.
REQUIRED PARKING (TOWN OF CAMERON)	622 SPACES	637 SPACES
REQUIRED PARKING RATIO (TOWN OF CAMERON)	3.33/1,000 S.F.	3.33/1,000 S.F.
REQUIRED PARKING (PER ECR/CC&R)	654 SPACES	670 SPACES
REQUIRED PARKING RATIO (PER ECR/CC&R)	3.50/1,000 S.F.	3.50 /1,000 S.F.
CUSTOMER AND ASSOCIATE PARKING	721 SPACES	660 SPACES
ACCESSIBLE PARKING	22 SPACES	22 SPACES
EV PARKING	0 SPACES	0 SPACES
PICKUP PARKING	7 SPACES	39 SPACES
CART CORRALS (NOT INCLUDED IN PARKING COUNTS BELOW)	(1) SINGLE (15) DOUBLE	(1) SINGLE (18) DOUBLE
NUMBER OF SPACES POPULATED WITH A CART CORRAL	31 SPACES	37 SPACES
TOTAL PARKING EXCLUDING PICKUP STALLS	743 SPACES	682 SPACES
PARKING RATIO EXCLUDING PICKUP STALLS	3.98 /1,000 S.F.	3.56 /1,000 S.F.
TOTAL PARKING INCLUDING PICKUP STALLS	750 SPACES	721 SPACES
PARKING RATIO INCLUDING PICKUP STALLS	4.01 /1,000 S.F.	3.77 /1,000 S.F.

PARKING INFORMATION NOTES:
1. USABLE SQUARE FOOTAGE IS AS PER PLANS PREPARED BY MMA DATED 01/08/2025.
2. EXISTING PARKING COUNTS ARE BASED ON A FIELD COUNT.

NOTES TO CONTRACTOR

1. EXISTING STRIPING SHALL BE REMOVED BY APPROVED PHYSICAL MEANS PRIOR TO SEAL COAT.
2. CONTRACTOR TO ASSESS AND TRIM ANY TREES ON SITE THAT OBSCURE EXISTING OR PROPOSED SIGNAGE.
3. STRIPE/ REFRESH ALL EXISTING PARKING FIELDS (MAIN, SIDE AND REAR OF STORE).
4. IN THE EVENT STRIPING OR SIGNAGE IN THE PLANS DO NOT MATCH ONSITE CONDITIONS OR DIRECTION IS UNCLEAR, CONTRACTOR SHOULD NOTIFY THE ENGINEER FOR PROPER DIRECTION VIA THE RFI PROCESS.
5. BFR (BUILDING FRONTAGE ROAD)
   OCR (OUTER CIRCULATION ROAD)
6. CONTRACTOR SHALL INSTALL "NEW" STOP BARS, SIGNS, AND TEXT TO MATCH CURRENT DETAILS AT THE LOCATIONS SHOWN ON THESE PLANS.
7. ALL SIGNS LOCATED ON THE BUILDING SIDE OF THE BFR SHALL BE INSTALLED ON SINGLE POST WITH BOLLARD.
8. THIS PLAN WAS PREPARED WITHOUT THE BENEFIT OF FIELD SURVEY DATA. PROPOSED SIGN LOCATIONS ARE APPROXIMATE AND SHOWN TO DEPICT THE GENERAL LOCATION OF THE SIGN. THE CONTRACTOR SHALL UTILIZE THE SIGN DETAILS AND SPECIFIC DIMENSIONS SHOWN ON THE SIGN DETAILS TO LOCATE THE SIGNS IN THE FIELD.

STOP SIGNS AND MARKINGS PLAN

REVISIONS	BY
1 03/25/2026 CCD #4	BEN

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NORTH CAROLINA PROFESSIONAL SEAL 20124 ENGINEER JAMES A. LOWE
03/25/2026

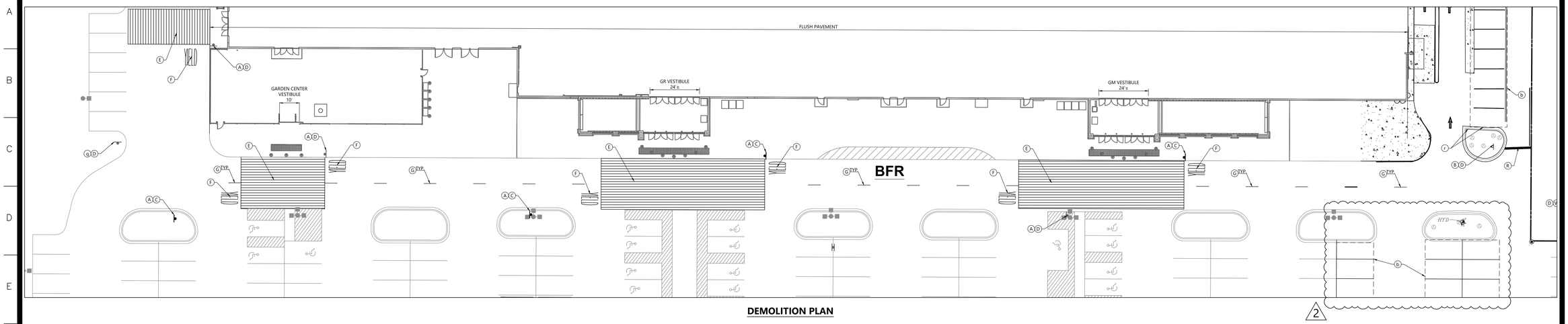
SUPERCENTER #06958-1000
2800 NC-24 #87
TOWN OF CAMERON, HARNETT COUNTY, NORTH CAROLINA

WALMART REAL ESTATE BUSINESS TRUST
BENTONVILLE, AR

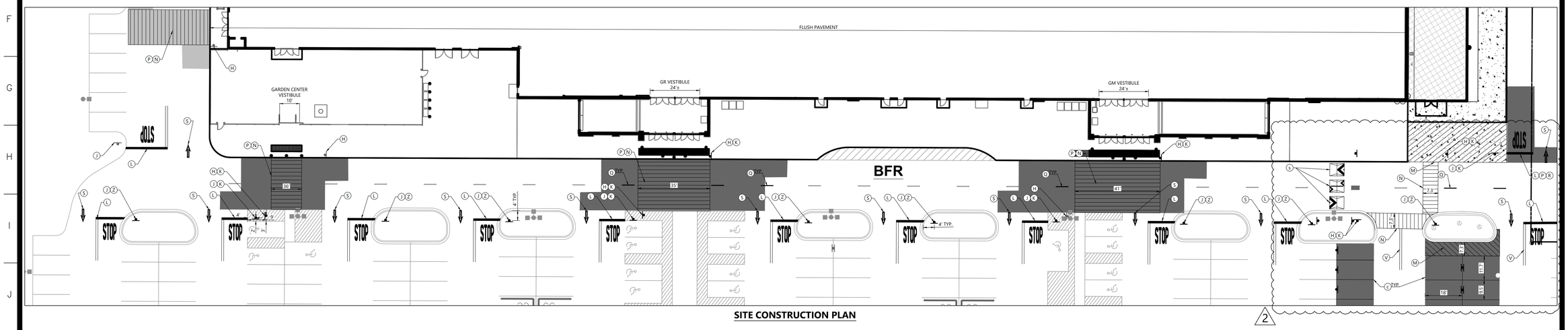
Walmart

DRAWN	GJ
CHECKED	BL
DATE	12-09-2024
SCALE	1"=60'
JOB No.	24001422
SHEET	C400

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DEMOLITION PLAN



SITE CONSTRUCTION PLAN

SITE AND DEMOLITION KEYNOTES

(A) EXISTING PEDESTRIAN CROSSING SIGN TO BE REMOVED.

(B) EXISTING STOP SIGN TO BE REMOVED.

(C) EXISTING SIGN POST TO BE REMOVED.

(D) EXISTING SIGN POST AND BASE TO REMAIN.

(E) EXISTING CROSSWALK STRIPING TO BE REMOVED.

(F) EXISTING YIELD PAVEMENT MARKING TO BE REMOVED.

(G) EXISTING CENTERLINE STRIPING TO REMAIN AND BE REPAINTED.

(H) NEW "STOP HERE FOR PEDESTRIANS" SIGN.

(J) NEW 30"X30" STOP SIGN.

(K) NEW SIGN MOUNTING AND BASE WITH BOLLARD.

(L) NEW STOP TEXT AND STOP BAR.

(M) NEW 4" WIDE PAINTED YELLOW STRIPES AT 45° @ 2'-0" O.C.

(N) NEW CROSSWALK MARKINGS - 6" WIDE PAINTED WHITE STRIPING PARALLEL TO DIRECTION OF TRAFFIC AT 2'-0" O.C. AND (1)-8" WHITE STRIPE PERPENDICULAR ON BOTH ENDS UNLESS NOTED OTHERWISE. SEE SITE PLAN FOR DIMENSIONS. ENTIRE CROSSWALK SHALL BE RE-STRIPED.

(P) LIMITS OF SEAL COAT. APPLY SEAL COAT OVER WHERE STRIPING AND PAVEMENT MARKINGS WERE REMOVED.

(Q) NEW 4" WIDE PAINTED YELLOW STRIPES - 6' LONG WITH 18' GAPS.

(R) EXISTING STOP BAR AND STOP TEXT PAVEMENT MARKINGS TO BE REMOVED.

(S) NEW OPEN ARROW PAVEMENT MARKINGS.

(T) EXISTING ARROW PAVEMENT MARKINGS TO BE REMOVED.

(U) NEW FIRE LANE STRIPING.

(V) NEW 4" WIDE DOUBLE SOLID YELLOW STRIPE.

(W) EXISTING STOP SIGN TO REMAIN.

(X) EXISTING STOP SIGN TO BE RAISED TO MATCH CURRENT DETAILS/GUIDELINES.

(Y) EXISTING BOLLARD AND SIGN POST TO BE REPAINTED.

(Z) NEW SIGN MOUNTING AND BASE WITH BREAK AWAY POST.

(a) EXISTING FIRE LANE STRIPING & LETTERING TO REMAIN / BE REFRESHED.

(b) EXISTING PARKING STALL STRIPING TO BE REMOVED

(c) NEW OPD PARKING STALL STRIPING. SEE SECP/SSM DETAILS SHEET.

(d) NEW OPD PARKING STALL SIGNAGE. SEE SECP/SSM DETAILS SHEET.

(e) NEW 4" WIDE PAINTED WHITE STRIPE

(f) EXISTING STOP BAR AND / OR STOP TEXT PAVEMENT MARKINGS TO REMAIN/ BE REFRESHED.

(g) NEW "DO NOT ENTER" SIGN MOUNTED ON BACK SIDE OF STOP SIGN.

(h) EXISTING CROSSWALK MARKINGS TO REMAIN/ BE REFRESHED.

(i) NEW PARKING STALL STRIPING. SEE SECP/SSM DETAILS SHEET.

(j) EXISTING OPD STALL SIGNAGE TO BE REMOVED.

(k) NEW OPEN ARROW PAVEMENT MARKINGS AND "ENTER" TEXT.

(m) EXISTING FIRE LANE SIGN.

(n) NEW STANDARD DUTY ASPHALT PAVEMENT.

(o) EXISTING DIRECTIONAL PICKUP SIGN TO BE REMOVED.

(p) NEW PAVEMENT MARKINGS "STOP" TEXT.

(q) EXITING "NO TRUCK" SIGN TO BE REMOVED.

(r) EXISTING LANDSCAPE ISLAND, CURB AND GUTTER TO BE DEMOLISHED. SEE SHEET C150 FOR DETAILS.

(s) NEW SPEED CUSHION. SEE DETAIL SHEET C700.

(t) NEW SPEED HUMP SIGN (W17-1), SEE DETAIL SHEET C700.

NOTES TO CONTRACTOR:

1. REFERENCE SITE CONSTRUCTION PLAN FOR SITE SPECIFIC DIMENSIONS OF CROSSWALK STRIPING AND LOCATION OF SIGNAGE.
2. PROVIDE A COMPREHENSIVE CONSTRUCTION PHASING PLAN FOR THIS WORK TO THE STORE MANAGER 7 DAYS PRIOR TO STARTING ANY WORK. IT IS TO PROVIDE FOR DATES, TIMES AND DURATION OF LANE CLOSURES, TEMPORARY VEHICLE AND PEDESTRIAN TRAFFIC CONTROL.
3. ALL EXISTING STRIPING AND PAVEMENT MARKINGS OR TEXT ALONG THE BFR (BUILDING FRONTAGE ROAD) SHALL BE REMOVED. GRIND OUT ANY DIRECTIONAL ARROWS OR STOP BARS/TEXT THAT ARE NOT CORRECTLY LOCATED OR INCONSISTENT WITH THE DETAILS PROVIDED. APPLY SEAL COAT TO THE COMPLETE EXTENT THAT THE STRIPING OR TEXT HAS BEEN REMOVED IN A SINGLE COMPLETE RECTANGLE TO COVER ALL REMOVED STRIPING (DO NOT APPLY SEAL COAT OVER EXISTING STRIPING OR CONCRETE). INSTALL NEW STRIPING AND SIGNAGE AS SHOWN ON THE SITE CONSTRUCTION PLAN.
4. ALL SIGNS LOCATED ON THE BUILDING SIDE OF THE BFR SHALL BE INSTALLED ON A SINGLE POST WITH BOLLARD.
5. THIS PLAN WAS PREPARED WITHOUT THE BENEFIT OF FIELD SURVEY DATA. PROPOSED SIGN LOCATIONS ARE APPROXIMATE AND SHOWN TO DEPICT THE GENERAL LOCATION OF THE SIGN. THE CONTRACTOR SHALL UTILIZE THE SIGN DETAILS AND SPECIFIC DIMENSIONS SHOWN ON THE SIGN DETAILS TO LOCATE THE SIGNS IN THE FIELD.

DEMOLITION AND SITE CONSTRUCTION PLAN

REVISIONS	BY
1 07/02/2025 PR #1	GJ
2 03/25/2026 CCD #4	BEN

ATWELL
866.850.4200 www.atwell-group.com
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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 20128 JAMES A. LOWE
03/25/2026

SUPERCENTER #06958-1000
2800 NC-24 #87
TOWN OF CAMERON, HARNETT COUNTY, NORTH CAROLINA

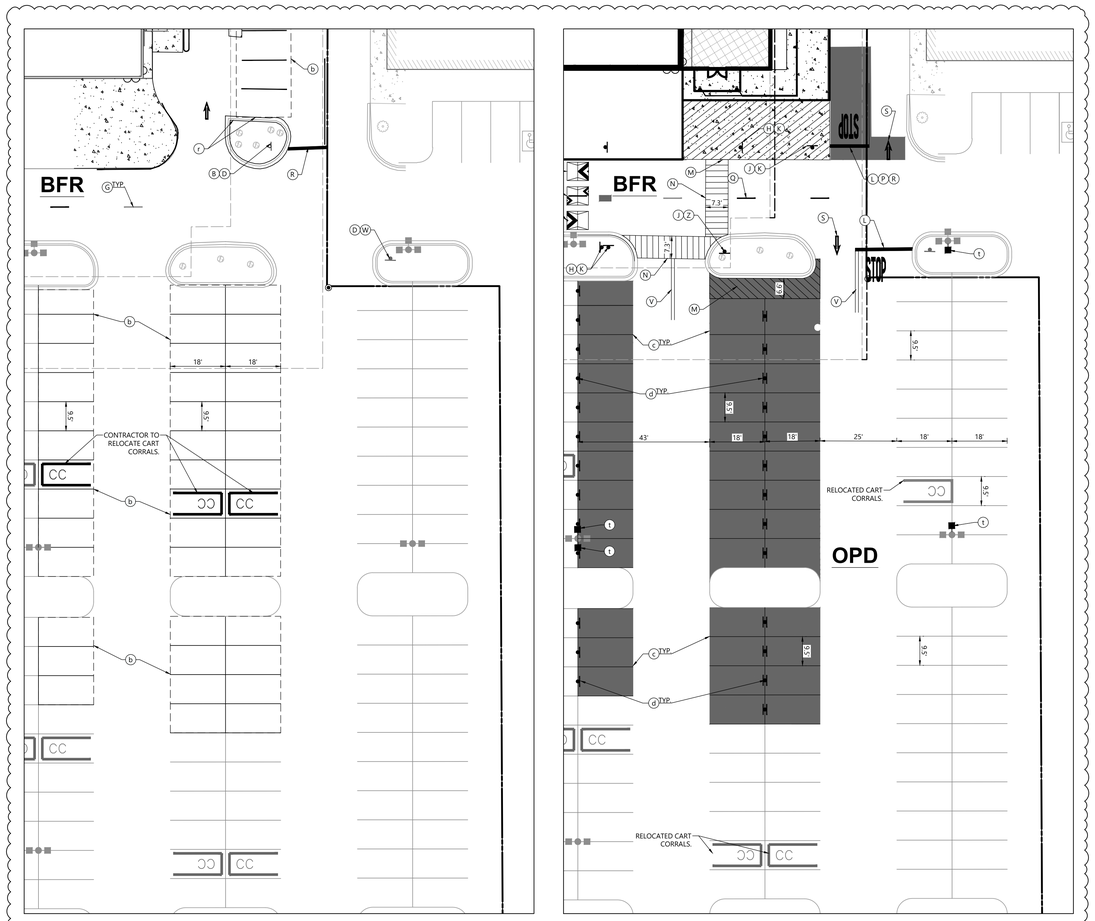
WALMART REAL ESTATE BUSINESS TRUST
BENTONVILLE, AR

Walmart

DRAWN	GJ
CHECKED	BL
DATE	12-09-2024
SCALE	1"=20'
JOB No.	24001422
SHEET	C500

SCALE: 1" = 20'

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2

SITE AND DEMOLITION KEYNOTES

(A) EXISTING PEDESTRIAN CROSSING SIGN TO BE REMOVED.

(B) EXISTING STOP SIGN TO BE REMOVED.

(C) EXISTING SIGN POST TO BE REMOVED.

(D) EXISTING SIGN POST AND BASE TO REMAIN.

(E) EXISTING CROSSWALK STRIPING TO BE REMOVED.

(F) EXISTING YIELD PAVEMENT MARKING TO BE REMOVED.

(G) EXISTING CENTERLINE STRIPING TO REMAIN AND BE REPAINTED.

(H) NEW "STOP HERE FOR PEDESTRIANS" SIGN.

(J) NEW 30"X30" STOP SIGN.

(K) NEW SIGN MOUNTING AND BASE WITH BOLLARD.

(L) NEW STOP TEXT AND STOP BAR.

(M) NEW 4" WIDE PAINTED YELLOW STRIPES AT 45° @ 2'-0" O.C.

(N) NEW CROSSWALK MARKINGS - 6" WIDE PAINTED WHITE STRIPING PARALLEL TO DIRECTION OF TRAFFIC AT 2'-0" O.C. AND (1)-8" WHITE STRIPE PERPENDICULAR ON BOTH ENDS UNLESS NOTED OTHERWISE. SEE SITE PLAN FOR DIMENSIONS. ENTIRE CROSSWALK SHALL BE RE-STRIPED.

(P) LIMITS OF SEAL COAT. APPLY SEAL COAT OVER WHERE STRIPING AND PAVEMENT MARKINGS WERE REMOVED.

(Q) NEW 4" WIDE PAINTED YELLOW STRIPES - 6' LONG WITH 18' GAPS.

(R) EXISTING STOP BAR AND STOP TEXT PAVEMENT MARKINGS TO BE REMOVED.

(S) NEW OPEN ARROW PAVEMENT MARKINGS.

(T) EXISTING ARROW PAVEMENT MARKINGS TO BE REMOVED.

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(o) EXISTING DIRECTIONAL PICKUP SIGN TO BE REMOVED.

(p) NEW PAVEMENT MARKINGS "STOP" TEXT.

(q) EXITING "NO TRUCK" SIGN TO BE REMOVED.

(r) EXISTING LANDSCAPE ISLAND, CURB AND GUTTER TO BE DEMOLISHED. SEE SHEET C150 FOR DETAILS.

(s) NEW CLOSED ARROW PAVEMENT MARKINGS.

(t) NEW EALS K5 HEAD TO BE INSTALLED ON EXISTING LIGHT POLE. SEE LIGHTING PLANS FOR DETAILS.

(u) RELOCATED CART CORRAL.

NOTES TO CONTRACTOR:

1. REFERENCE SITE CONSTRUCTION PLAN FOR SITE SPECIFIC DIMENSIONS OF CROSSWALK STRIPING AND LOCATION OF SIGNAGE.
2. PROVIDE A COMPREHENSIVE CONSTRUCTION PHASING PLAN FOR THIS WORK TO THE STORE MANAGER 7 DAYS PRIOR TO STARTING ANY WORK. IT IS TO PROVIDE FOR DATES, TIMES AND DURATION OF LANE CLOSURES, TEMPORARY VEHICLE AND PEDESTRIAN TRAFFIC CONTROL.
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0 10' 20'
SCALE: 1" = 20'

DEMOLITION AND SITE CONSTRUCTION PLAN

REVISIONS	BY
2 03/25/2026 CCD #4	BEN

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30067-8900
ATWELL, LLC DBA ATWELL, PLLC COA# P-2380

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 20128 JAMES A. LOWE
03/25/2026

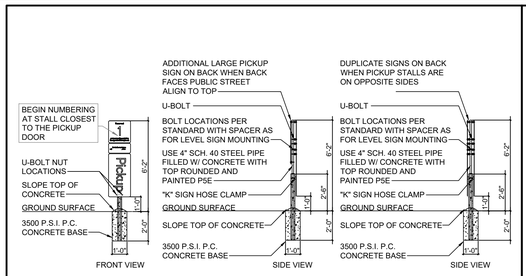
SUPERCENTER #06958-1000
2800 NC-24 #87
TOWN OF CAMERON, HARNETT COUNTY, NORTH CAROLINA

WALMART REAL ESTATE BUSINESS TRUST
BENTONVILLE, AR

Walmart

DRAWN	GJ
CHECKED	BL
DATE	12-09-2024
SCALE	1"= 20'
JOB No.	24001422
SHEET	C510

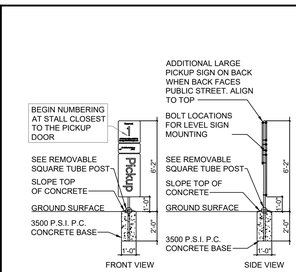
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TYPICAL PARKING SIGNAGE IN PAVEMENT

PARKING SIGN MOUNTING AND BASE

N.T.S.



TYPICAL PARKING SIGNAGE IN CURBED ISLAND

PARKING SIGN MOUNTING AND BASE

N.T.S.

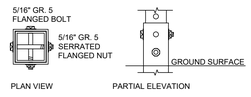
NOTES:

1. ALL SIGNS SHALL COMPLY WITH U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", LOCAL CODES AND AS SPECIFIED. MOUNT SIGNS TO POST IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
2. GALVANIZED SQUARE TUBE

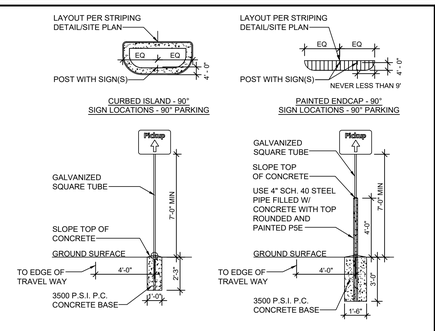
POST TUBES - 2"x2"x3/16" 12ga
POST TUBE GALVANIZED AS PER ASTM A653 GRADE 90.

ANCHOR TUBE - 2-1/4"x2-1/4"x3/16" 12ga
HEAVY DUTY ANCHOR TUBE SHALL MEET ASTM A500 GRADE B. STRUCTURAL TUBE AND STEEL SHALL BE HOT DIP GALVANIZED PER ASTM A123.

THE UPPER SIGN POST SHALL TELESCOPE INSIDE THE ANCHOR TUBE A MINIMUM OF 12". THE ANCHOR TUBE SHALL BE A MINIMUM 27" DEEP WITH 3" MIN. 4" MAX. EXPOSED ABOVE FINISH GRADE.



REMOVABLE SQUARE TUBE POST

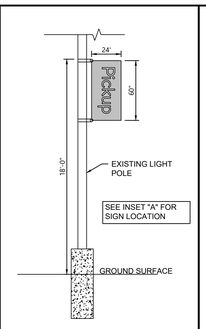


TYPICAL DIRECTIONAL SIGNAGE IN CURBED ISLAND

TYPICAL DIRECTIONAL SIGNAGE IN PAVEMENT

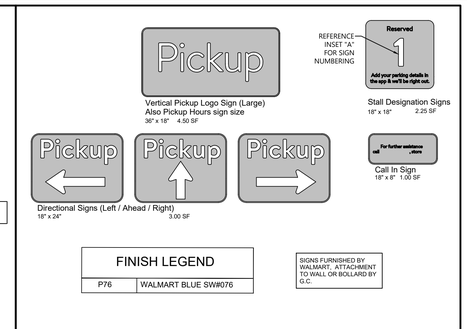
DIRECTIONAL SIGN MOUNTING AND BASE

N.T.S.



PICKUP BANNER MOUNTING

N.T.S.

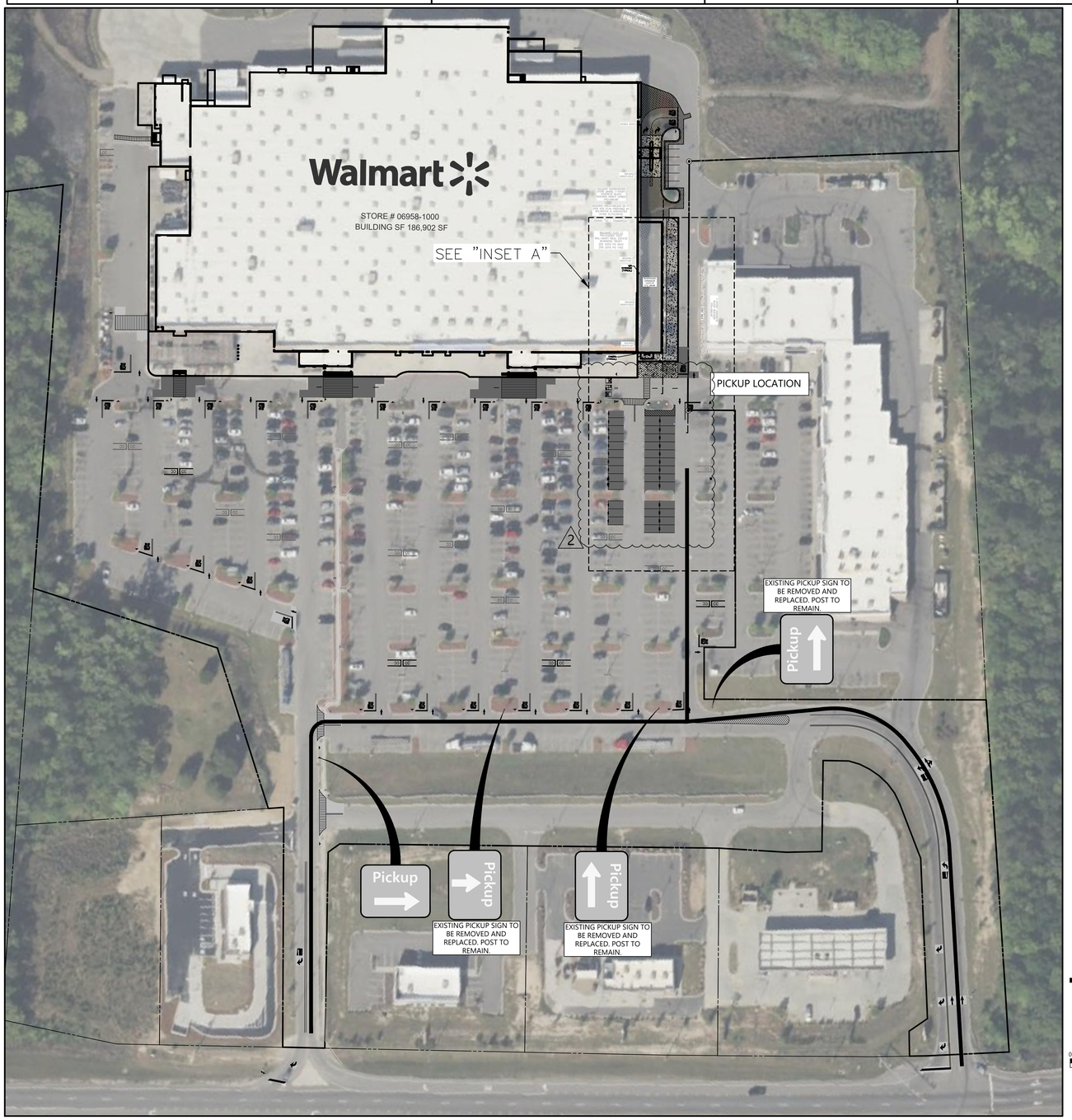


FINISH LEGEND	
P76	WALMART BLUE SW#076

SIGNS FURNISHED BY WALMART. ATTACHMENT TO WALL OR BOLLARD BY G.C.

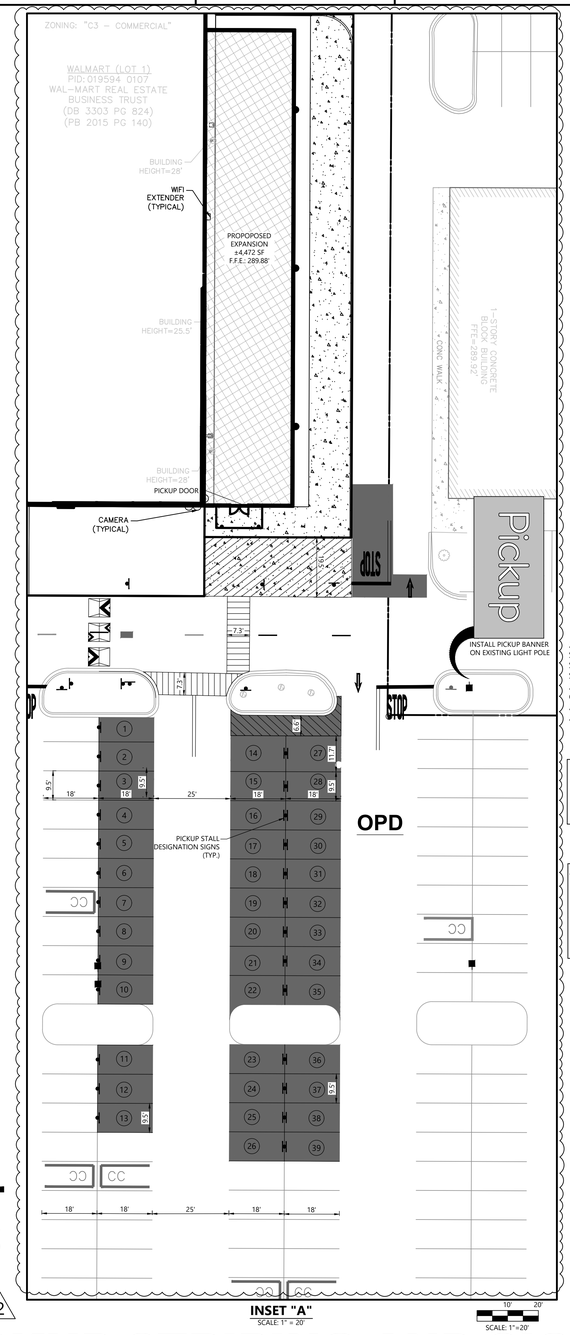
PICKUP SIGNAGE

N.T.S.



PATH OF TRAVEL FOR PICKUP CUSTOMER (FROM RIGHT-OF-WAY TO PICKUP ENTRANCE)

0 30' 60'
SCALE: 1"=60'



PICKUP EXTERIOR SIGN SCHEDULE		
DESCRIPTION	DIMENSIONS	QUANTITY
WAITING SPACES LEFT	18 X 24	0
WAITING SPACES RIGHT	18 X 24	0
WAITING SPACES AHEAD	18 X 24	0
RESERVED WAITING	18 X 24	0
PICKUP LEFT PHARMACY RIGHT	18 X 24	0
PICKUP RIGHT PHARMACY LEFT	18 X 24	0
STOP THANKS FOR ORDERING	18 X 36	0
PICKUP HOURS	18 X 36	0
RESERVED	18 X 18	39
PHONE NUMBER	8 X 18	39
VERTICAL PICKUP	18 X 36	39
PICKUP LEFT	18 X 24	1
PICKUP AHEAD	18 X 24	1
PICKUP RIGHT	18 X 24	2
PICKUP BANNER AND MOUNTING HARDWARE	24 X 60	1
TEMPORARY PARKING SIGN WITH PYRAMID BASE	24 X 60	0

CALL IN # FOR "PHONE NUMBER" AND "TEMPORARY" SIGNS
910-364-0364

ALL PICKUP WAYFINDING AND STALL SIGNS ARE WALMART SUPPLIED AND CONTRACTOR INSTALLED. CONTRACTOR TO PLACE SIGN ORDER AT LEAST 3 WEEKS IN ADVANCE. ORDER SHALL BE SENT VIA EMAIL TO GETTY THOMAS (Getty.Thomas@walmart.com) AND BRAD KEENER (Bradley.Keener@walmart.com). REQUEST SHALL CONTAIN A DELIVERY ADDRESS, DESIRED DELIVERY DATE, AND ANY SITE SPECIFIC SIGN SIZE AND/OR COLORS BASED ON APPROVED PLANS.

NOTE TO GC: ALL EXISTING STRIPING AND PAVEMENT MARKINGS OR TEXT SHALL BE REMOVED. GRIND OUT ALL PAVEMENT MARKINGS AND NUMBERS. APPLY SEAL COAT TO THE COMPLETE EXTENT AS SHOWN AND INSTALL NEW STRIPING TO MATCH EXISTING ADJACENT PARKING STALLS (MATCH LENGTH, WIDTH, SPACING AND COLOR).

NOTES TO CONTRACTOR:

1. BFR (BUILDING FRONTAGE ROAD)
   OCR (OUTER CIRCULATION ROAD)
2. THIS PLAN WAS PREPARED WITHOUT THE BENEFIT OF FIELD SURVEY DATA. PROPOSED SIGN LOCATIONS ARE APPROXIMATE AND SHOWN TO DEPICT THE GENERAL LOCATION OF THE SIGN. THE CONTRACTOR SHALL UTILIZE THE SIGN DETAILS AND SPECIFIC DIMENSIONS SHOWN ON THE SIGN DETAILS TO LOCATE THE SIGNS IN THE FIELD.

PICKUP STRIPING AND SIGNAGE PLAN

REVISIONS	BY
03/25/2026 CCD #4	BEN

ATWELL
865.850.4200 www.atwell-group.com
1850 PARKWAY PLACE, SUITE 650
MARIETTA, GA
30067
ATWELL, LLC DBA ATWELL, PLLC COA# P–2380

NORTH CAROLINA PROFESSIONAL SEAL 20124 ENGINEER JAMES A. LOWE

03/25/2026

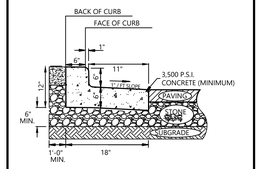
SUPERCENTER #06958-1000
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TOWN OF CAMERON, HARNETT COUNTY, NORTH CAROLINA

WALMART REAL ESTATE BUSINESS TRUST
BENTONVILLE, AR

Walmart

DRAWN	GJ
CHECKED	BL
DATE	12-09-2024
SCALE	1"=60'
JOB No.	24001422
SHEET	C600

FILE NAME: K:\24001422 WM Store #6958– Cameron, NC\CAD\Engineering\24 PRODUCTION\24001422 – PDS PLAN.dwg LAST SAVED BY: Blake Hall 3/24/2026 5:45 PM PLOTTED BY: Blake Hall 3/24/2026 PAPER: ARCH E1 (30.00 X 42.00 INCHES) DEVICE: DWG TO PDF.PC3 PLOT STYLE: ATWELL.CTB

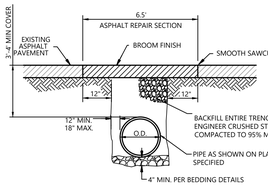


NOTES

1. EXPANSION JOINTS REQUIRED AT ALL STRUCTURES AND CURB RETURNS. 25 FOOT MAXIMUM DISTANCE BETWEEN EXPANSION JOINTS.
2. 3,500 P.S.I. CONCRETE WITH SMOOTH FINISH.
3. COMPACT SUBGRADE TO 95% STANDARD PROCTOR.
4. SEE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.

STANDARD 18" CONCRETE CURB AND GUTTER "C"

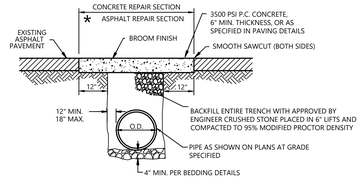
N.T.S.



NOTE:
SEE LOCAL JURISDICTION OR STATE DOT FOR FINAL SPECIFICATION

ASPHALT STREET OR DRIVE CUT/REPAIR

N.T.S.

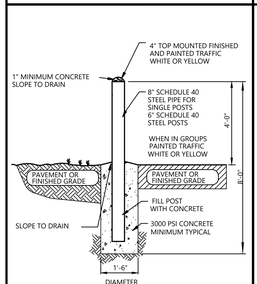


NOTE:
SEE LOCAL JURISDICTION OR STATE DOT FOR FINAL SPECIFICATION

* ASPHALT MAY BE USED AS AN ALTERNATIVE TO CONCRETE REPAIR SECTION (SEE "PAVING SPECIFICATION DETAIL" ON DETAIL SHEET FOR SPECIFICATIONS)

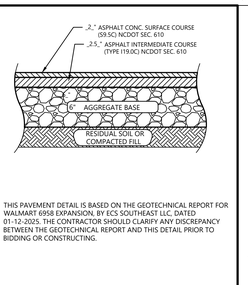
CONCRETE STREET OR DRIVE CUT/REPAIR

N.T.S.



BOLLARD

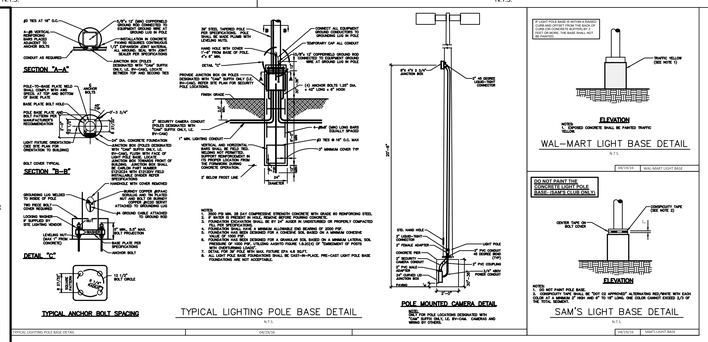
N.T.S.



THIS PAVEMENT DETAIL IS BASED ON THE GEOTECHNICAL REPORT FOR WALMART 6958 EXPANSION, BY ECS SOUTHEAST LLC, DATED 01-12-2025. THE CONTRACTOR SHOULD CLARIFY ANY DISCREPANCY BETWEEN THE GEOTECHNICAL REPORT AND THIS DETAIL PRIOR TO BIDDING OR CONSTRUCTING.

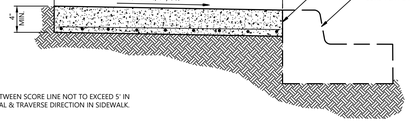
HEAVY DUTY ASPHALT PAVING SPECIFICATION

N.T.S.



NOTES

1. ACCESSIBLE RAMPS, PER D.O.T. SPECIFICATIONS, TO BE PROVIDED AT ALL LOCATIONS SHOWN ON PLANS.
2. WHERE REQUIRED REINFORCING WILL BE No. 3 BARS AT 24" ON CENTER EACH WAY (MAXIMUM SPACING), OR 6x6 - W1.4xW1.4 WWF.
3. 4" AGGREGATE BASE COURSE COMPACTED TO 98% STANDARD PROCTOR TYPICAL IN AREAS WITH UNSUITABLE SUBGRADE.
4. REFER TO SITEWORK SPECIFICATIONS FOR MORE INFORMATION.

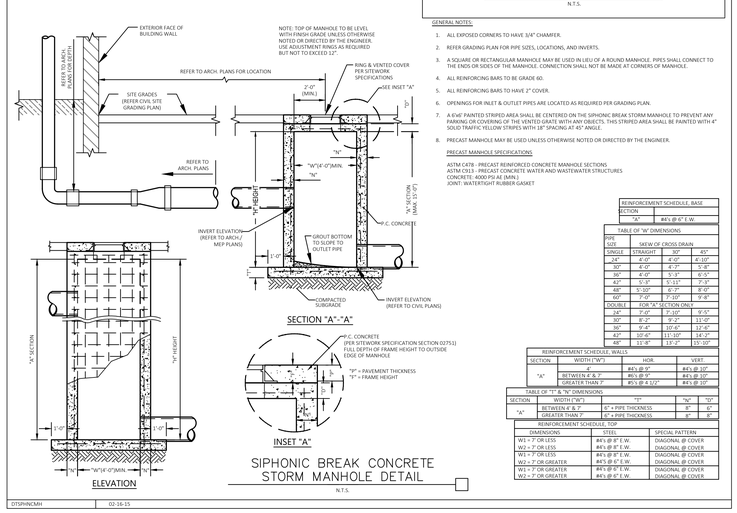


NOTE

DISTANCE BETWEEN SCORE LINE NOT TO EXCEED 5' IN LONGITUDINAL & TRAVERSE DIRECTION IN SIDEWALK.

CONCRETE SIDEWALK

N.T.S.



GENERAL NOTES:

1. ALL EXPOSED CORNERS TO HAVE 3/4" CHAMFER.
2. REFER GRADING PLAN FOR PIPE SIZES, LOCATIONS, AND INVERTS.
3. A SQUARE OR RECTANGULAR MANHOLE MAY BE USED IN LIEU OF A ROUND MANHOLE. PIPES SHALL CONNECT TO THE ENDS OR SIDES OF THE MANHOLE. CONNECTION SHALL NOT BE MADE AT CORNERS OF MANHOLE.
4. ALL REINFORCING BARS TO BE GRADE 60.
5. ALL REINFORCING BARS TO HAVE 2" COVER.
6. OPENINGS FOR INLET & OUTLET PIPES ARE LOCATED AS REQUIRED PER GRADING PLAN.
7. A 6'x6' PAINTED STRIPED AREA SHALL BE CENTERED ON THE SIPHONIC BREAK STORM MANHOLE TO PREVENT ANY PARKING OR COVERING OF THE VENTED GRATE WITH ANY OBJECTS. THIS STRIPED AREA SHALL BE PAINTED WITH 4" SOLID TRAFFIC YELLOW STRIPES WITH 18" SPACING AT 45° ANGLE.
8. PRECAST MANHOLE MAY BE USED UNLESS OTHERWISE NOTED OR DIRECTED BY THE ENGINEER.

PRECAST MANHOLE SPECIFICATIONS

ASTM C478 - PRECAST REINFORCED CONCRETE MANHOLE SECTIONS
ASTM C913 - PRECAST CONCRETE WATER AND WASTEWATER STRUCTURES
CONCRETE: 4000 PSI AE (MIN.)
JOINT: WATERTIGHT RUBBER GASKET

REINFORCEMENT SCHEDULE, BASE	
SECTION	
"A"	#4's @ 6" E.W.

TABLE OF 'W' DIMENSIONS			
PIPE SIZE	'W' DIA OF CROSS DRAIN		
SINGLE	STRAIGHT	30°	45°
24"	4'-0"	4'-0"	4'-11"
30"	4'-0"	4'-7"	5'-8"
36"	4'-0"	5'-3"	6'-5"
42"	5'-3"	5'-11"	7'-3"
48"	5'-10"	6'-7"	8'-0"
60"	7'-0"	7'-10"	9'-8"
DOUBLE	FOR "A" SECTION ONLY		
24"	7'-0"	7'-10"	9'-5"
30"	8'-3"	9'-3"	11'-0"
36"	9'-4"	10'-6"	12'-6"
42"	10'-6"	11'-10"	14'-2"
48"	11'-8"	13'-2"	15'-10"

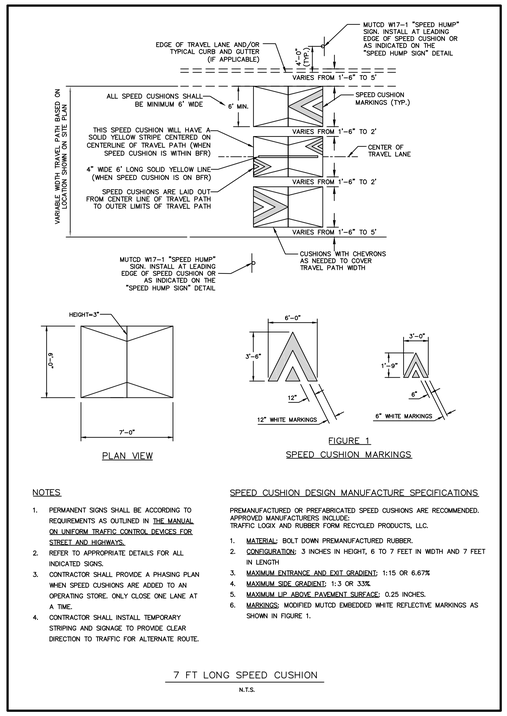
REINFORCEMENT SCHEDULE, WALLS			
SECTION	WIDTH ("W")	HOR.	VERT.
"A"	4'	#4's @ 9"	#4's @ 10"
	BETWEEN 4' & 7'	#6's @ 9"	#4's @ 10"
	GREATER THAN 7'	#5's @ 4 1/2"	#4's @ 10"

TABLE OF "T" & "N" DIMENSIONS				
SECTION	WIDTH ("W")	"T"	"N"	"G"
"A"	4'	6" + PIPE THICKNESS	8"	6"
	BETWEEN 4' & 7'	8" + PIPE THICKNESS	8"	8"
	GREATER THAN 7'	8" + PIPE THICKNESS	8"	8"

REINFORCEMENT SCHEDULE, TOP		
DIMENSIONS	STEEL	SPECIAL PATTERN
W1 = 7' OR LESS	#4's @ 6" E.W.	DIAGONAL @ COVER
W2 = 7' OR LESS	#4's @ 8" E.W.	DIAGONAL @ COVER
W1 = 7' OR LESS	#4's @ 6" E.W.	DIAGONAL @ COVER
W2 = 7' OR GREATER	#4's @ 6" E.W.	DIAGONAL @ COVER
W1 = 7' OR GREATER	#4's @ 6" E.W.	DIAGONAL @ COVER
W2 = 7' OR GREATER	#4's @ 6" E.W.	DIAGONAL @ COVER

DTSPHNCMH | 02-16-15

2



PLAN VIEW

FIGURE 1
SPEED CUSHION MARKINGS

NOTES

1. PERMANENT SIGNS SHALL BE ACCORDING TO REQUIREMENTS AS OUTLINED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREET AND HIGHWAYS.
2. REFER TO APPROPRIATE DETAILS FOR ALL INDICATED SIGNS.
3. CONTRACTOR SHALL PROVIDE A PHASING PLAN WHEN SPEED CUSHIONS ARE ADDED TO AN OPERATING STORE. ONLY CLOSE ONE LANE AT A TIME.
4. CONTRACTOR SHALL INSTALL TEMPORARY STRIPING AND SIGNAGE TO PROVIDE CLEAR DIRECTION TO TRAFFIC FOR ALTERNATE ROUTE.

SPEED CUSHION DESIGN MANUFACTURE SPECIFICATIONS

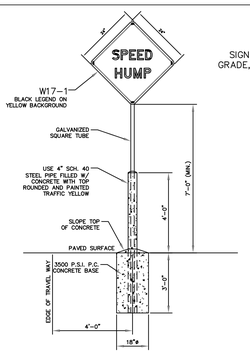
PREMANUFACTURED OR PREFABRICATED SPEED CUSHIONS ARE RECOMMENDED. APPROVED MANUFACTURERS INCLUDE:
TRAFFIC LOGIX AND RUBBER FORM RECYCLED PRODUCTS, LLC.

1. MATERIAL: BOLT DOWN PREMANUFACTURED RUBBER.
2. CONFIGURATION: 3 INCHES IN HEIGHT, 6 TO 7 FEET IN WIDTH AND 7 FEET IN LENGTH
3. MAXIMUM ENTRANCE AND EXIT GRADIENT: 1:15 OR 6.67%
4. MAXIMUM SIDE GRADIENT: 1:3 OR 33%
5. MAXIMUM LIP ABOVE PAVEMENT SURFACE: 0.25 INCHES.
6. MARKINGS: MODIFIED MUTCD EMBEDDED WHITE REFLECTIVE MARKINGS AS SHOWN IN FIGURE 1.

7 FT LONG SPEED CUSHION

N.T.S.

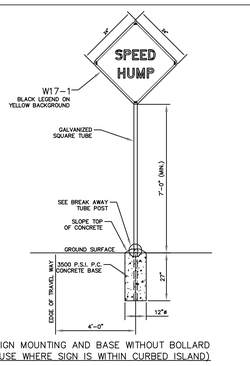
NOTE:
SIGNS SHALL HAVE DIAMOND GRADE, ASTM TYPE XI, SHEETING.



SIGN MOUNTING AND BASE WITH BOLLARD
(USE WHERE SIGN IS NOT WITHIN CURBED ISLAND)

NOTES:
1. ALL SIGNS SHALL COMPLY WITH U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", LOCAL CODES AND AS SPECIFIED. MOUNT SIGNS TO POST IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
2. GALVANIZED SQUARE TUBE

POST TUBES – 2"x2" 12ga
POST TUBE SHALL MEET ASTM A1011 GRADE 50.
POST TUBE GALVANIZED AS PER ASTM A653 GRADE 90.



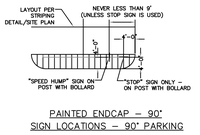
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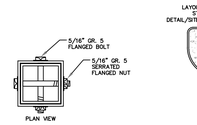
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POST TUBE GALVANIZED AS PER ASTM A653 GRADE 90.

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ANCHOR TUBE SHALL MEET ASTM A500 GRADE B.
STRUCTURAL TUBE AND STEEL SHALL BE HOT DIP GALVANIZED PER ASTM A123.

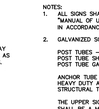
THE UPPER SIGN POST SHALL TELESCOPE INSIDE THE ANCHOR TUBE A MINIMUM OF 12". THE ANCHOR TUBE SHALL BE A MINIMUM 27" DEEP WITH 3" MIN. 4" MAX. EXPOSED ABOVE FINISH GRADE.



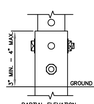
PAINTED ENDCAP – 90°
SIGN LOCATIONS – 90° PARKING



CURBED ISLAND – 90°
SIGN LOCATIONS – 90° PARKING

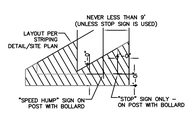


PLAN VIEW

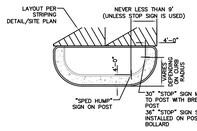


PARTIAL ELEVATION

SQUARE TUBE BREAK AWAY POST



PAINTED ENDCAP – 60°
SIGN LOCATIONS – 60° PARKING



CURBED ISLAND – 60°
SIGN LOCATIONS – 60° PARKING

"SPEED HUMP" SIGN
N.T.S.

SITE CONSTRUCTION DETAIL SHEET 1

REVISIONS		BY
1 ADD 2	2025-09-10	MF
2 03/25/2026	CCD #4	BEN

ATWELL
865.850.4200 www.atwell-group.com
1850 PARKWAY PLACE, SUITE 650
MARIETTA, GA
30067-7706
ATWELL, LLC DBA ATWELL, PLLC COA# P-2380

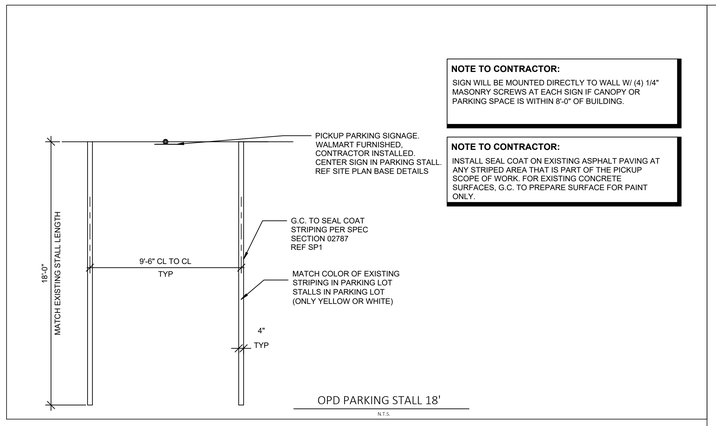
NORTH CAROLINA PROFESSIONAL SEAL 20128 ENGINEER JAMES A. LOWE
03/25/2026

SUPERCENTER #06958-1000
2800 NC-24 #87
TOWN OF CAMERON, HARNETT COUNTY, NORTH CAROLINA
WALMART REAL ESTATE BUSINESS TRUST
BENTONVILLE, AR

Walmart

DRAWN	GJ
CHECKED	BL
DATE	12-09-2024
SCALE	
JOB No.	24001422
SHEET	C700

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OPD PARKING STALL 18'

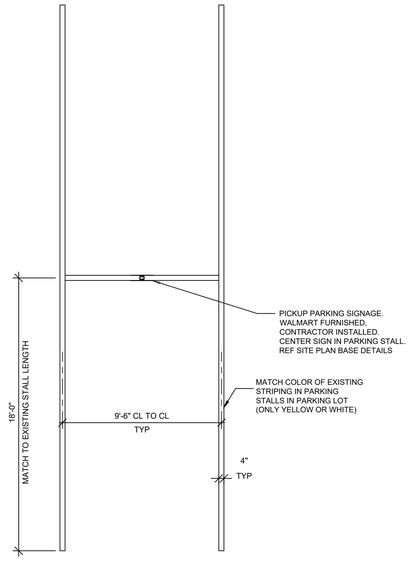
N.T.S.

NOTE TO CONTRACTOR:

SIGN WILL BE MOUNTED DIRECTLY TO WALL W/ (4) 1/4" MASONRY SCREWS AT EACH SIGN IF CANOPY OR PARKING SPACE IS WITHIN 8'-0" OF BUILDING.

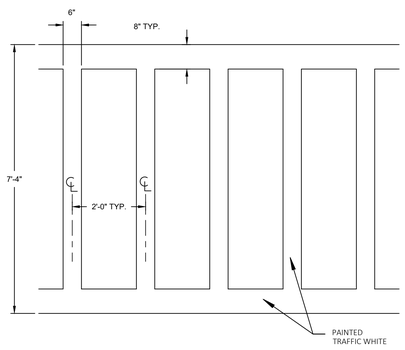
NOTE TO CONTRACTOR:

INSTALL SEAL COAT ON EXISTING ASPHALT PAVING AT ANY STRIPED AREA THAT IS PART OF THE PICKUP SCOPE OF WORK. FOR EXISTING CONCRETE SURFACES, G.C. TO PREPARE SURFACE FOR PAINT ONLY.



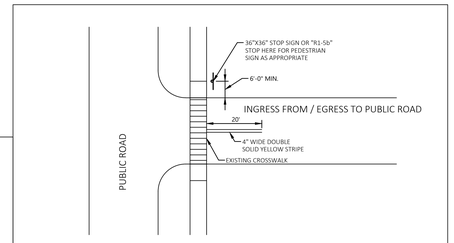
OPD PARKING STALLS 18' BACK TO BACK

N.T.S.

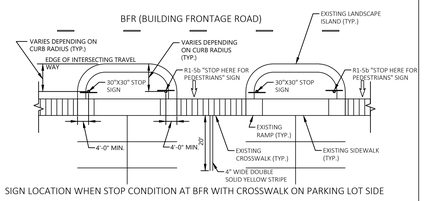


OGP CROSSWALK MARKING

N.T.S.



SIGN LOCATION WHEN STOP CONDITION AT END OF BUILDING ALONG BFR WITH CROSSWALK



SIGN LOCATION WHEN STOP CONDITION AT BFR WITH CROSSWALK ON PARKING LOT SIDE

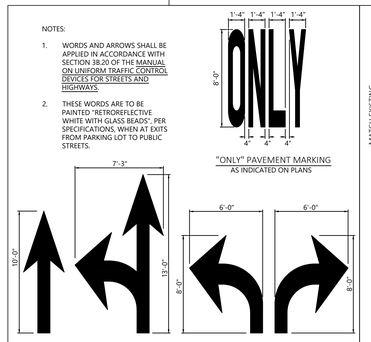
STOP SIGN LOCATION WHERE STOP BAR AND TEXT CONFILTS WITH CROSSWALK MARKINGS

N.T.S.

03/21/19

NOTES:

1. WORDS AND ARROWS SHALL BE APPLIED IN ACCORDANCE WITH SECTION 3B.20 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
2. THESE WORDS ARE TO BE PAINTED "RETROREFLECTIVE WHITE WITH GLASS BEADS", PER SPECIFICATIONS. WHEN AT EXITS FROM PARKING LOT TO PUBLIC STREETS.

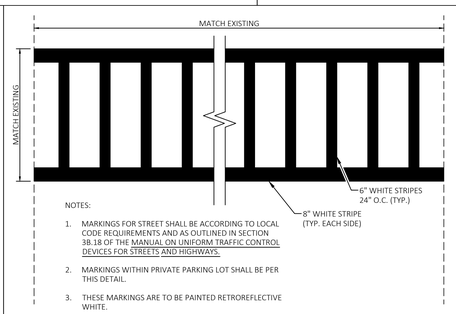


"ONLY" PAVEMENT MARKING AS INDICATED ON PLANS

SOLID ARROW MARKINGS AS INDICATED ON PLANS PAINTED "RETROREFLECTIVE WHITE"

SOLID ARROW PAVEMENT MARKINGS

N.T.S.

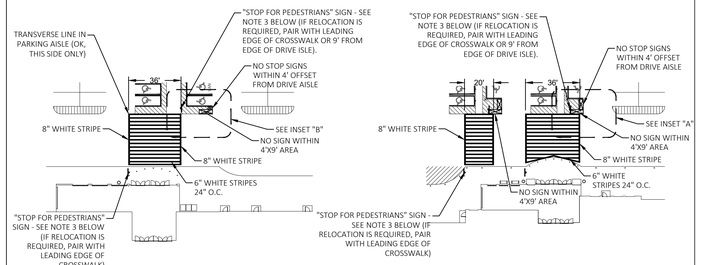


NOTES:

1. MARKINGS FOR STREET SHALL BE ACCORDING TO LOCAL CODE REQUIREMENTS AND AS OUTLINED IN SECTION 3B.18 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
2. MARKINGS WITHIN PRIVATE PARKING LOT SHALL BE PER THIS DETAIL.
3. THESE MARKINGS ARE TO BE PAINTED RETROREFLECTIVE WHITE.

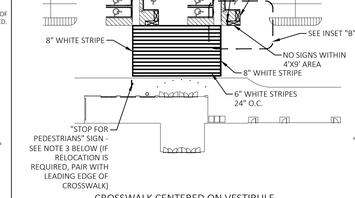
CROSSWALK MARKING W/ LONGITUDINAL STRIPES (MODIFIED)

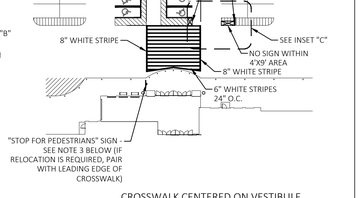
N.T.S.



CROSSWALK OFF-SET FROM CENTER OF VESTIBULE

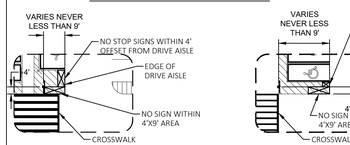
CROSSWALK OFF-SET FROM CENTER OF VESTIBULE





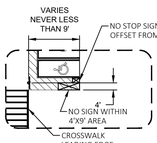
CROSSWALK CENTERED ON VESTIBULE

CROSSWALK CENTERED ON VESTIBULE



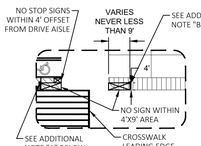
INSET "A"

"STOP HERE FOR PEDESTRIAN" SIGN LOCATION WHEN LEADING EDGE OF CROSSWALK LANDS BETWEEN DRIVE AISLE AND ACCESSIBLE PATH.



INSET "B"

"STOP HERE FOR PEDESTRIAN" SIGN LOCATION WHEN LEADING EDGE OF CROSSWALK IS ALIGNED WITH EDGE OF ACCESSIBLE PATH.



INSET "C"

"STOP HERE FOR PEDESTRIAN" SIGN LOCATION WHEN LEADING EDGE OF CROSSWALK LANDS BEFORE OR WITHIN DRIVE AISLE.

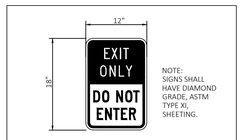
ADDITIONAL NOTES FOR INSET "C";

A. IF CROSSWALK LEADING EDGE IS LESS THAN HALF WAY ACROSS THE DRIVE AISLE, THE CROSSWALK SIGN WILL LAG THE LEADING EDGE.
B. IF CROSSWALK LEADING EDGE IS BEYOND HALF WAY ACROSS THE DRIVE AISLE, THE CROSSWALK SIGN WILL LEAD THE LEADING EDGE.

NOTES:

1. REFERENCE EACH VESTIBULE ON THE SITE PLAN FOR FINAL LAYOUT, DIMENSIONS AND SIGN LOCATION.
2. SEE INSETS "A", "B" AND "C" FOR SIGN LOCATION FOR EACH OF THE THREE OPTIONS.
3. ONLY RELOCATE SIGN POST IF OFFSET MORE THAN 9' FROM LEADING EDGE OF CROSSWALK (EITHER SIDE IN EITHER DIRECTION) ALONG FRONT DRIVE.

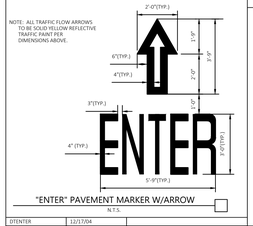
SIGN LOCATION AND VESTIBULE CROSSWALK STRIPING (APPLICABLE TO STRIPED OR RAISED ISLANDS BASED ON SITE CONDITIONS) (MODIFIED)



NOTE: SIGNS SHALL HAVE DIAMOND GRADE, ASTM TYPE XI, SHEETING.

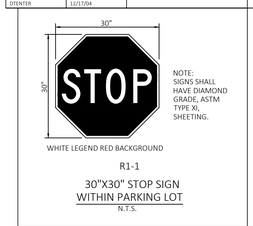
12" x 18" EXIT SIGN WITHIN PARKING LOT

N.T.S.



"ENTER" PAVEMENT MARKER W/ARROW

N.T.S.

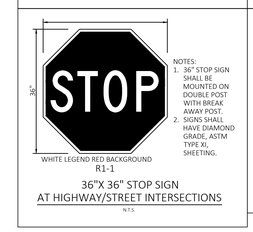


NOTE: SIGNS SHALL HAVE DIAMOND GRADE, ASTM TYPE XI, SHEETING.

R1-1

30"X30" STOP SIGN WITHIN PARKING LOT

N.T.S.



NOTES:

1. 36" STOP SIGN SHALL BE MOUNTED ON DOUBLE POST WITH BREAK AWAY POST.
2. SIGNS SHALL HAVE DIAMOND GRADE, ASTM TYPE XI, SHEETING.

R1-1

36"X 36" STOP SIGN AT HIGHWAY/STREET INTERSECTIONS

N.T.S.



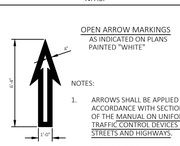
NOTE: SIGNS SHALL HAVE DIAMOND GRADE, ASTM TYPE XI, SHEETING.

LEGEND, BORDER - BLACK
BACKGROUND - WHITE (RETROREFLECTIVE)
STOP SYMBOL - RED (RETROREFLECTIVE)

R1-5b

STOP FOR PEDESTRIANS

N.T.S.



NOTES:

1. ARROWS SHALL BE APPLIED IN ACCORDANCE WITH SECTION 3B.20 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
2. OPEN ARROWS SHALL CONSIST OF A 4" PERIMETER STRIPE.

OPEN ARROW PAVEMENT MARKINGS (MODIFIED)

N.T.S.



BLACK LEGEND YELLOW BACKGROUND

W4-4P

NOTE: SIGNS SHALL HAVE DIAMOND GRADE, ASTM TYPE XI, SHEETING.

"CROSS TRAFFIC" PLAQUE

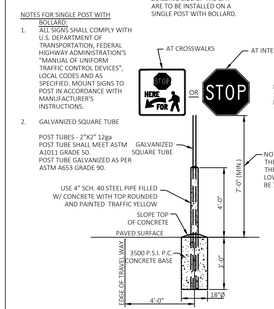
N.T.S.

NOTE: ALL SIGNS LOCATED ON THE BUILDING SIDE OF THE BFR ARE TO BE INSTALLED ON A SINGLE POST WITH BOLLARD.

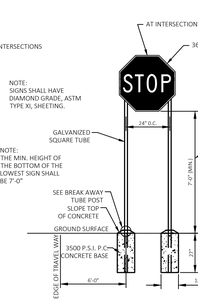
NOTES FOR SINGLE POST WITH BOLLARD:

1. ALL SIGNS SHALL COMPLY WITH U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", LOCAL CODES AND AS SPECIFIED. MOUNT SIGNS TO POST IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
2. GALVANIZED SQUARE TUBE

POST TUBES - 2"X2" 12ga
POST TUBE SHALL MEET ASTM A1011 GRADE 50.
POST TUBE GALVANIZED AS PER ASTM A653 GRADE 90.



SINGLE POST WITH BOLLARD



DOUBLE POST WITH BREAK AWAY POSTS

NOTE: SIGNS SHALL HAVE DIAMOND GRADE, ASTM TYPE XI, SHEETING.

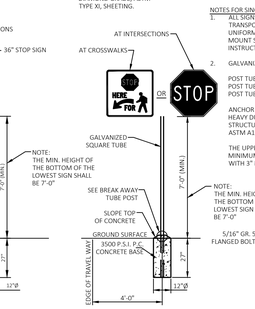
NOTES FOR SINGLE POST WITH BREAK AWAY POST:

1. ALL SIGNS SHALL COMPLY WITH U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", LOCAL CODES AND AS SPECIFIED. MOUNT SIGNS TO POST IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
2. GALVANIZED SQUARE TUBE

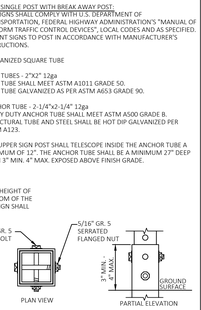
POST TUBES - 2"X2" 12ga
POST TUBE SHALL MEET ASTM A1011 GRADE 50.
POST TUBE GALVANIZED AS PER ASTM A653 GRADE 90.

ANCHOR TUBE - 2-1/4"x2-1/4" 12ga
HEAVY DUTY ANCHOR TUBE SHALL MEET ASTM A500 GRADE B STRUCTURAL TUBE AND STEEL SHALL BE HOT DIP GALVANIZED PER ASTM A123.

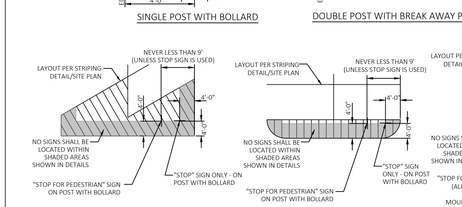
THE UPPER SIGN POST SHALL TELESCOPE INSIDE THE ANCHOR TUBE A MINIMUM OF 12". THE ANCHOR TUBE SHALL BE A MINIMUM 27" DEEP WITH 3" MIN. 4" MAX. EXPOSED ABOVE FINISH GRADE.



SINGLE POST WITH BREAK AWAY POST



SQUARE TUBE BREAK AWAY POST

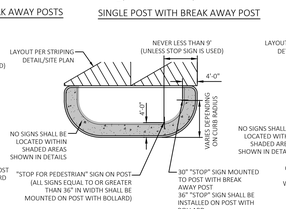


PAINTED ENDCAP - 60°

SIGN LOCATIONS - 60° PARKING

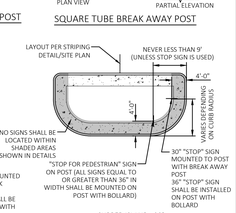
PAINTED ENDCAP - 90°

SIGN LOCATIONS - 90° PARKING



CURBED ISLAND - 60°

SIGN LOCATIONS - 60° PARKING



CURBED ISLAND - 90°

SIGN LOCATIONS - 90° PARKING

SIGN MOUNTING AND BASE

N.T.S.

SECP AND STOP SIGNS AND MARKINGS DETAIL SHEET 1

REVISIONS	BY

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ATWELL, LLC DBA ATWELL, PLLC COA# P-2380

NORTH CAROLINA PROFESSIONAL SEAL 20378 ENGINEER JAMES A. LOWE

12/18/2024

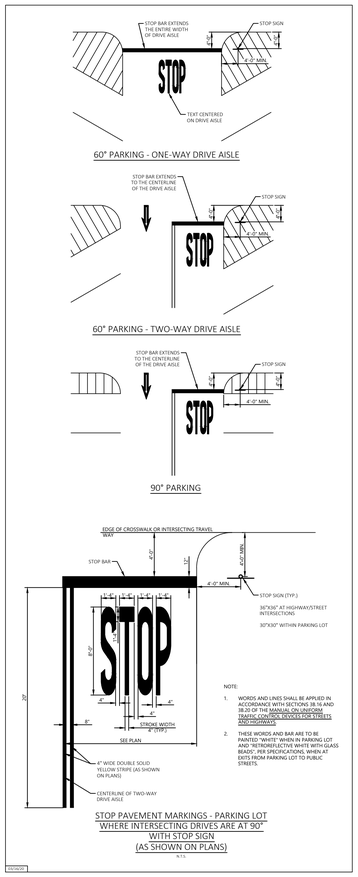
SUPERCENTER #06958-1000
2800 NC-24 #87
TOWN OF CAMERON, HARNETT COUNTY, NORTH CAROLINA

WALMART REAL ESTATE BUSINESS TRUST
BENTONVILLE, AR

Walmart

DRAWN	GJ
CHECKED	BL
DATE	12-09-2024
SCALE	
JOB No.	24001422
SHEET	C710

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SECP AND STOP SIGNS AND MARKINGS DETAIL SHEET 2

REVISIONS	BY

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MARIETTA, GA
30067
ATWELL, LLC DBA ATWELL, PLLC COA# P-2380

NORTH CAROLINA PROFESSIONAL SEAL 20376 ENGINEER MES A. LOWE

12/18/2024

SUPERCENTER #06958-1000
2800 NC-24 #87
TOWN OF CAMERON, HARNETT COUNTY, NORTH CAROLINA

WALMART REAL ESTATE BUSINESS TRUST
BENTONVILLE, AR

Walmart

DRAWN	GJ
CHECKED	BL
DATE	12-09-2024
SCALE	
JOB No.	24001422
SHEET	C720

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SITE DEMOLITION SPECIFICATION

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Demolition of structures, paving, and utilities.
   2. Patching and filling voids created as a result of removals or demolition.

1.2 REGULATORY REQUIREMENTS

A. Compliance with all laws, including Safety Laws, Environmental Laws, Stormwater Laws and Worker Verification Laws as well as requirements found within the Contract Documents and these Specifications, that pertain to Safety Compliance, Environmental Compliance, Stormwater Compliance and Worker Verification Compliance. Obtain required permits and licenses from appropriate authorities. Pay associated fees including disposal charges.
B. Notify affected utility companies before starting work and comply with their requirements.
C. Do not close or obstruct public or private roadways, sidewalks, or fire hydrants without appropriate permits or written authorization.
D. If hazardous, contaminated materials or other environmental related conditions are discovered, stop work immediately and notify the Wal-Mart Construction Manager for action to be taken. Do not resume work until specifically authorized by the Construction Manager.

1.3 PROJECT CONDITIONS

A. Conditions existing at time of inspection for bidding purposes will be maintained by Owner as reasonably practical.
B. Unless otherwise indicated in Contract Documents or specified by the Owner, items of salvageable value to Contractor shall be removed from site and structures. Storage or sale of removed items on site will not be permitted and shall not interfere with other work specified.

PART 2 - PRODUCTS

2.1 FILL MATERIALS

A. Fill material shall be aggregate fill materials consisting of stone, gravel, or sand free from debris, trash, frozen materials, roots, and other organic matter.

2.2 CONCRETE

A. Mix concrete and deliver in accordance with ASTM C 94.
B. Design mix to produce normal weight concrete consisting of Portland cement, aggregate, water_reducing admixture, air_entraining admixture, and water to produce following:
   1. Compressive Strength: 3,500 psi, minimum at 28 days, unless otherwise indicated on the Drawings.
   2. Slump Range: 1 to 3-inches at time of placement
   3. Air Entrainment: 5 to 8 percent

PART 3 - EXECUTION

3.1 PREPARATION

A. Provide, erect, and maintain erosion control devices, temporary barriers, and security devices at locations indicated on Construction Drawings. Provide a comprehensive construction phasing plan for this work to the store manager 7 days prior to starting any work. It is to provide for dates, times and duration of lane closures, temporary vehicle and pedestrian traffic control.
B. Protect existing landscaping materials, appurtenances, and structures, which are not to be demolished. Repair damage to existing items to remain caused by demolition operations.
C. Prevent movement or settlement of adjacent structures. Provide bracing and shoring as necessary.
D. Mark location of utilities. Protect and maintain in safe and operable condition utilities that are to remain. Prevent interruption of existing utility service to occupied or used facilities, except when authorized in writing by authorities having jurisdiction. Provide temporary services during interruptions to existing utilities as acceptable to governing authorities and Owner.
E. For work on operating Walmart sites, prior to any underground excavation, contractor is expected to obtain current and representative underground utility plans from Walmart for private utilities that are not located by others. This is specifically intended to provide approximate locations for Walmart private utilities including water, sewer, electrical, telephone and data services.
F. Notify adjacent property owners of work that may affect their property, potential noise, utility outages, or other disruptions. Obtain written permission from adjacent property owners when demolition equipment will traverse, infringe upon, or limit access to their property. Coordinate notice with Owner.

3.2 GENERAL DEMOLITION REQUIREMENTS

A. Conduct demolition to minimize interference with adjacent structures or pavements to remain.
B. Cease operations immediately if adjacent structures appear to be in danger. Notify authority having jurisdiction. Do not resume operations until directed by authority.
C. Conduct operations with minimum of interference to public or private access. Maintain ingress and egress at all times other than in specific areas where work is in progress.
D. Sprinkle work with water to minimize dust. Provide hoses and water connections for this purpose.
E. Comply with governing regulations pertaining to environmental protection.
F. Clean adjacent structures and improvements of dust, dirt, and debris caused by demolition operations. Return adjacent areas to condition existing prior to start of work.

3.3 DEMOLITION

A. Demolish site improvements designated to be removed as shown on the drawings. Site improvements shall include but not be limited to structures, foundations, pavements, curbs and gutters, drainage structures, utilities, signage or landscaping.
B. Disconnect and cap or remove utilities to be abandoned as shown on the drawings.
C. Fill or remove piping and appurtenances as shown.
D. Demolish concrete and masonry in small sections. Break up concrete slabs_on_grade that are 2-feet or more below proposed subgrade to permit moisture drainage. Remove slabs-on-grade and below grade construction within 2-feet of proposed subgrade.

3.4 PATCHING

A. Where improvements are removed from paved areas, pavements shall be sawcut in straight lines at the perimeter and patched. Damaged pavement adjacent to removed improvements shall also be removed and patched.
B. Pavement patches shall be paved with minimum 6" concrete, broom finished and flush with adjacent grades.

3.5 FILLING VOIDS

A. Completely fill below grade areas and voids resulting from demolition or removal of structures, etc., using aggregate fill materials consisting of stone, gravel, or sand free from debris, trash, frozen materials, roots, and other organic matter.
B. Areas to be filled shall be free of standing water, frost, frozen or unsuitable material, trash, and debris prior to fill placement.
C. Place fill materials in lifts not to exceed 6 inches loose measure and compacted to 95 percent of maximum laboratory density per ASTM D698 with moisture content of not less than 1 percent below and not more than 3 percent above optimum moisture content.
D. Grade surface to match adjacent grades and to provide flow of surface drainage after fill placement and compaction.

3.6 DISPOSAL OF DEMOLISHED MATERIALS

A. Remove from site debris, rubbish, and other materials resulting from demolition operations. Leave areas of work in clean condition.
B. No burning of any material, debris, or trash on_site or off_site will be allowed.
C. Transport materials removed from demolished structures with appropriate vehicles and dispose off-site to areas that are approved for disposal by governing authorities and appropriate property owners.

END OF SECTION

PAVEMENT MARKINGS SPECIFICATION

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Painting and marking of pavements, curbs, and guard posts (bollards)..

1.2 REFERENCES

A. The publications listed below form a part of this specification to the extent referenced. Publications are referenced within the text by the basic designation only.
B. American Association of State Highway and Transportation (AASHTO):
   1. AASHTO M247 - Glass Beads Used in Traffic Paints
   2. AASHTO M248 - Ready-Mixed White and Yellow Traffic Paints
C. Master Painter's Institute (MPI):
   1. MPI 32 - Traffic Marking Paint, Solvent Based.
   2. MPI 97 - Traffic Marking Paint, Latex.
D. ASTM International (ASTM):
   1. ASTM D4414 - Standard Practice for Measurement of Wet Film Thickness by Notched Gauges.
E. Federal Specifications (FS):
   1. FS A-A-2886 - Paint, Traffic, Solvent Based (supersedes FS TT-P-85 and FS TT-P-115, Type I)
   2. FS TT-B-1325 - Beads (Glass Spheres) Retro-Reflective
   3. FS TT-P-1952 - Paint, Traffic And Airfield Marking, Waterborne

1.3 PROJECT CONDITIONS

A. Maintain access for vehicular and pedestrian traffic as required for other construction activities. Utilize flagmen, barricades, warning signs, and warning lights as required.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Paint shall be waterborne or solvent borne, colors as shown or specified herein. Pavement marking paints shall comply with applicable state and local laws enacted to ensure compliance with Federal Clean Air Standards. Paint materials shall conform to the restrictions of the local Air Pollution Control District.
B. Waterborne Paint: Paints shall conform to FS TT-P-1952 and have MPI 97 approval.
C. Solvent Borne Paint: Paint shall conform to FS A-A-2886 or AASHTO M248 and have MPI 32 approval. Paint shall be non_bleeding, quick_drying, and alkyd petroleum base paint suitable for traffic_bearing surface and be mixed in accordance with manufacturer's instructions before application for colors White, Yellow, Blue, and Red.
D. Glass Beads: AASHTO M 247, Type 1 or FS TT-B-1325, Type 1, Gradation A.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine the work area and correct conditions detrimental to timely and proper completion of the work. Do not proceed until unsatisfactory conditions are corrected.

3.2 PREPARATION

A. Sweep and clean surface to eliminate loose material and dust.
B. Where existing pavement markings are indicated on Construction Drawings to be removed or would interfere with adhesion of new paint, a motorized abrasive device or soda blasting shall be used to remove the markings. Equipment employed shall not damage existing paving or create surfaces hazardous to vehicle or pedestrian traffic.

3.3 CLEANING EXISTING PAVEMENT MARKINGS

A. Remove existing pavement markings which are in good condition but interfere or conflict with the newly applied marking patterns and as noted on plans. Deteriorated or obscured markings that are not misleading or confusing or do not interfere with the adhesion of the new marking material do not require removal. Conduct grinding, soda blasting or other operations in such a manner that the finished pavement surface is not damaged or left in a pattern that is misleading or confusing. Use dust collection system when removing existing pavement markings. Comply with the requirements of Section 01351 Regulatory Compliance Supplement for management and disposal of hazardous wastes.

3.4 APPLICATION

A. Apply two coats of same color of paint as specified below, at manufacturer's recommended rate, without addition of thinner, with maximum of 100 square feet per gallon or as required to provide a minimum wet film thickness of 15 mils and dry film thickness of 7 ½ mils per coat. Paint shall be applied for a total dry film thickness of 15 mils. Apply with mechanical equipment to produce uniform straight edges. At sidewalk curbs and crosswalks, use straightedge to ensure uniform, clean, and straight stripe.
B. Install pavement markings according to manufacturer's recommended procedures for the specified material.
C. Following items shall be painted with colors noted below:
   1. Pedestrian Crosswalks: White
   2. Exterior Sidewalk Curbs and Guard posts: Yellow
   3. Exterior Light Pole Bases: Yellow (unless otherwise noted on Construction Detail).
   4. Fire Lanes: Red or per local code.
   5. Lane Striping where separating traffic moving in opposite directions: Yellow.
   6. Lane Striping where separating traffic moving in the same direction: White.
   7. ADA Symbols: Blue or per local code.
   8. ADA parking space markings as shown on the drawings.
   9. Parking Stall Striping: Yellow, unless otherwise noted on Construction Drawings.
   10. Associate Parking Area: White, unless otherwise noted on Construction Drawings.
D. Apply glass beads at pedestrian crosswalk striping and at lane striping and arrows at driveways connecting to public streets. Broadcast glass beads uniformly into wet markings at a rate of 6 lb/gal.

3.5 FIELD QUALITY CONTROL

A. Field quality control shall be the responsibility of the Contractor. Field quality control testing and inspection shall be at the discretion of the Contractor as necessary to assure compliance with Contract requirements.

3.6 CLEANING

A. Waste materials shall be removed at the end of each workday. Upon completion of the work, all containers and debris shall be removed from the site. Paint spots upon adjacent surfaces shall be carefully removed by approved procedures that will not damage the surfaces and the entire job left clean and acceptable.

END OF SECTION

TRAFFIC SIGNS AND SIGNALS SPECIFICATION

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Traffic control signs.
B. Related Requirements:
   1. Section 09900 - Painting. Painting for painted posts where shown on the Drawings.

1.2 REFERENCES

A. The publications listed below form a part of this specification to the extent referenced. Publications are referenced within the text by the basic designation only.
B. ASTM International (ASTM):
   1. ASTM A53 - Pipe, Steel, Black and Hot_Dipped, Zinc_Coated Welded and Seamless.
   2. ASTM C94 - Ready Mix Concrete
   3. ASTM D4956 - Retroreflective Sheeting for Traffic Control.
C. US Department of Transportation, Federal Highway Administration:
   1. Manual on Uniform Traffic Control Devices (MUTCD).

PART 2 - PRODUCTS

2.1 SIGNS

A. Conform to US Department of Transportation MUTCD. Sign classification, type, size, and color shall be as shown on the drawings
B. Retroreflectivity: Microprismatic type, diamond grade reflective sheeting conforming to ASTM D 4956, Type XI.

2.2 POSTS

A. Square Post: Square tubular steel sign post, galvanized, 12 ga, perforated full-length with 7/16 inch holes on four sides. Post size shall be as shown on the Drawings.
B. Steel Pipe: ASTM A 53, Type E (electric-resistance welded) or Type S (seamless), Grade B, Schedule 40, size as shown on the Drawings.

2.3 CONCRETE

A. Mix concrete and deliver in accordance with ASTM C 94.
B. Design mix to produce normal weight concrete consisting of Portland cement, aggregate, water_reducing admixture, air_entraining admixture, and water to produce following:
   1. Compressive Strength: 3,500 psi, minimum at 28 days, unless otherwise indicated on the Drawings.
   2. Slump Range: 1 to 3-inches at time of placement
   3. Air Entrainment: 5 to 8 percent

PART 3 - EXECUTION

3.1 PREPARATION

A. Field verify underground utilities prior to sign installation. Primary utilities of concern of shallow depths are lawn sprinkler systems, electric, telephone, fiber optic, cable and gas.

3.2 INSTALLATION

A. Install signs as shown on the Drawings and in accordance with MUTCD and manufacturer's instructions.
B. Install signs of the type and at locations shown on the Drawings.
C. Install posts of the type as shown on the drawing.
D. Where shown as painted, field paint steel pipe posts in accordance with Section 09900.

END OF SECTION

SEAL COAT SHALL BE APPLIED WHERE EXISTING MARKINGS ARE REMOVED.

SMALL PROJECT SEAL COAT SPECIFICATION:

IN GENERAL:

· CRACK FILLING AND OIL SPOT TREATMENTS ARE NOT REQUIRED PRIOR TO SEAL COAT. OTHER THAN THESE EXCEPTIONS, PREPARE AND CLEAN AREA TO BE SEAL COATED CONSISTENT WITH MANUFACTURER'S INSTRUCTIONS AND SPECIFICATION.

APPROVED MATERIALS:

1) STAR PRODUCTS
   · MICRO-PAVE PRO-BLEND WITH ADDED SAND
   · SINGLE COAT

2) SEAL MASTER
   · POLYMER MODIFIED MASTERSEAL WITH ADDED SAND
   · SINGLE COAT

3) GEM SEAL BLACK DIAMOND XL
   · WITH ADDED SAND
   · SINGLE COAT

MATERIALS IDENTIFIED IN SPECIFICATION SECTION 02787 CAN BE USED. COAL TAR BASED SEAL COAT MATERIALS IN ANY FORM ARE PROHIBITED.

SPECIFICATIONS SHEET 1

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NORTH CAROLINA PROFESSIONAL SEAL 20370 ENGINEER JAMES A. LOWE
12/18/2024

SUPERCENTER #06958-1000
2800 NC-24 #87
TOWN OF CAMERON, HARNETT COUNTY, NORTH CAROLINA

WALMART REAL ESTATE BUSINESS TRUST
BENTONVILLE, AR

Walmart

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SHEET	C730

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SEAL COAT SPECIFICATION
PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Seal coats using a polymer-modified asphalt emulsion blended with fine aggregate.
B. Related Requirements:
   1. Site Demolition Specification
   2. Pavement Markings Specification
   3. Traffic Signs and Signals Specification

1.2 REFERENCES

A. The publications listed below form a part of this specification to the extent referenced. Publications are referenced within the text by the basic designation only.
B. ASTM International (ASTM)

   1. ASTM C 136 - Method of Sieve Analysis of Fine and Coarse Aggregate
   2. ASTM D 217 - Method for Cone Penetration of Lubricating Grease
   3. ASTM D 244 - Test Methods for Emulsified Asphalts
   4. ASTM D 562 - Method for Consistency of Paints Measuring Krebs Unit (KU) Viscosity Using a Stormer-Type Viscometer
   5. ASTM D 977 - Emulsified Asphalt
   6. ASTM D 2397 - Cationic Emulsified Asphalt
   7. ASTM D 2042 - Method for solubility of Asphalt Materials in Trichloroethylene
   8. ASTM D 3910 - Practice for Design, Testing, and Construction of Slurry Seal
   9. ASTM D 6690 - Joint and Crack Sealants, Hot Applied, for Concrete and Asphalt Pavements

1.3 ADMINISTRATIVE REQUIREMENTS

A. Pre_installation Meeting: Convene a pre_installation meeting at the site at least two weeks prior to commencing work of this Section. Require attendance of parties directly affecting work of this Section, including, but not limited to, the store manager, Contractor, and job foreman.
   1. Contact Wal_Mart Construction Manager three weeks prior to pre_installation conference to confirm schedule.
   2. Record discussions of meeting and decisions, agreements reached, and furnish copy of record to each party attending. Review foreseeable methods and procedures related to paving work, including the following:
      a. Review preparation and installation procedures and coordinating and scheduling required with related work (including all required striping).
      b. Review proposed sources of materials.
      c. Tour, inspect, and discuss condition of existing pavement and other preparatory work such as patching and crack sealing. If crack sealing is needed (reference section 2.4.C below) or other areas of pavement distress are noted during tour, submit appropriate RFI to project team for review.
      d. Review requirements for protecting paving work, including restriction and redirection of traffic during installation and curing period.
      e. Review and finalize construction schedule and verify availability of materials, installer's personnel, equipment, traffic control devices, and facilities needed to make progress and avoid delays.
      f. Review paving requirements (drawings, specifications, and other contract documents).
      g. Review weather and forecasted weather conditions, and procedures for coping with unfavorable conditions.
   h. Review health and safety precautions relating to handling and placement of seal coat.

1.4 QUALITY ASSURANCE

A. Contractor Qualifications: The seal coat applicator shall have not less than 3 years documented experience in the application of emulsion seal coats.

1.5 SITE CONDITIONS

A. Weather Limitations: Apply seal coat only under the following weather conditions:
1. The atmospheric temperature is between 50 and 90 F and is expected to remain above 50 F for 24 hours.
2. Pavement temperature is above 55 F.
3. Surface is dry and no moisture is expected within 24 hours.
4. Weather and wind conditions are such that overspray is preventable and will allow proper curing and opening to traffic within a reasonable time.

B. Maintain access for vehicular and pedestrian traffic as required by the Wal-Mart Store and Construction Manager. Utilize temporary striping, flagmen, barricades, warning signs, and warning lights as required.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Aggregate: Aggregate shall be 100 percent passing the No. 16 (1.18 mm) sieve when tested in accordance with ASTM C 136. Aggregate shall consist of hard, washed, dry natural or manufactured particles free of dust, trash, clay, organic materials or other contaminants.
B. Asphalt Emulsion: Comply with ASTM D977 or ASTM D2397 for SS-1h or CSS-1h. The penetration of the residue from the distillation test shall be 20 to 60. Clay stabilized emulsion, with a ph not greater than 7.0, and solids content not less than 45 percent may be used. The polymer material shall be milled or blended into the asphalt or emulsifier solution prior to the emulsification process. The minimum amount and type of polymer modifier shall be determined by the laboratory performing the mix design.
C. Coal Tar: Coal tar emulsion or coal tar/asphalt emulsion shall not be used as a substitute for asphalt emulsion.
D. Water: Water shall be potable and free of harmful soluble salts or reactive chemicals and any other contaminants and at least 50 F.
E. Additives: Additives shall be included and approved as part of the mix design and be compatible with the other components of the mix.
F. Crack Sealant: Crack sealant shall conform to ASTM D6690, Type II or higher and compatible with the specified seal coat emulsion.

2.2 COMPOSITION

A. Composition. Seal coat shall consist of a mixture of the specified emulsion, water, aggregate, and additives and be proportioned to meet the requirements shown in the following Table 1.

TABLE 1 - Undiluted Seal Coat Design Properties

Method	Minimum	Maximum
Weight (per gallon), ASTM D 244, lbs	9.0	
Cone Penetration, ASTM D 217, mm	340	700
% Non-Volatile[1]	50	
% Non-Volatile Residue Soluble in Trichloroethylene, ASTM D 2042	10	35
Wet Track Abrasion Loss, ASTM D 3910, g		35
Viscosity, ASTM D 562, KU	75	
Dried Film Color	Black	

[1]Weigh 10 g of homogeneous product into a previously tared, small ointment can. Place in an oven at 325°F for 90 minutes. Cool, reweigh and calculate non-volatile residue as a percent of the original mass.

2.3 EQUIPMENT

A. Distributors. Distributors or spray units used for the spray application of the seal coat shall be self-propelled and capable of uniformly applying 0.10 to 0.30 gallons per square yard of material over the required width of application. Distributors shall be equipped with tachometers, pressure gauges, and volume measuring devices. The mix tank shall have a mechanically powered, full sweep, mixer with sufficient power to move and homogeneously mix the entire contents of the tank.
B. Spray Nozzles. Nozzles shall be free from clogs and debris and set at the same angle.
C. Mixing Equipment. The mixing machine shall have a continuous flow mixing unit capable of accurately delivering a predetermined proportion of aggregate, water, and emulsion, and of discharging the thoroughly mixed product on a continuous basis. The mixing unit shall be capable of thoroughly blending all ingredients together and discharging the material without segregation.
D. Spreading Equipment. Spreading equipment shall be a mechanical type squeegee/brush distributor attached to the mixing machine, equipped with flexible material in contact with the surface to prevent loss of slurry from the spreader box. It shall be maintained to prevent loss of slurry on varying grades and adjusted to assure uniform spread. There shall be a lateral control device and a flexible strike off capable of being adjusted to lay the slurry at the specified rate of application. The spreader box shall have an adjustable width. The box shall be kept clean. Emulsion and aggregate build up on the box shall not be permitted.
E. Clean equipment with a petroleum solvent if previously used with a different material.
F. Hand Squeegee or Brush Application. Hand spreading application shall be used only in places not accessible to the mechanized equipment or to accommodate neat trim work at curbs, etc. Material that is applied by hand shall meet the same standards as that applied by machine.
G. Calibration. Spreading equipment shall be provided with a method of calibration by the manufacturer. Equipment shall be calibrated to assure that it will produce and apply a mix that conforms to the job mix formula. Calibrations shall be made with the approved job materials prior to application of the seal coat.

2.4 PREPARATION

A. Remove all existing striping in areas subject to seal coating as noted in plans. Reference applicable specification section in Site Demolition.
B. Remediate distressed areas of existing pavement by saw-cutting and removing existing pavement, regrading and compacting the underlying base course and replacing with full depth asphalt at locations and as shown on the drawings.
   1. Repairs not specifically shown on the plans but considered necessary by the contractor, store manager or construction manager (CM) shall be identified and submitted as an RFI to the project team prior to commencement of repairs.
   2. Repairs submitted by RFI and approved shall be performed as directed by the CEC. Cost for such work directed and performed will be paid for in accordance with the "Changes in the Work" Clause of the General Conditions.
C. Longitudinal and traverse cracks in excess of 0.25 inch, but less than 1 inch shall be sealed with a crack sealant. Cracks that contain weed or other live vegetable matter shall be treated with a locally approved, non-oil based sterilant prior to applying the crack filler.
D. Existing crack sealants in the parking lot shall be evaluated for compatibility with the specified emulsion. If not compatible with each other they can't be used together. Immediately prior to applying the seal coat, the surface shall be cleared of all loose material, dirt, dust, grease, oil, vegetation and other objectionable material. If water is used, cracks shall be allowed to dry thoroughly before applying the seal coat.
E. Protect existing manholes, inlets, vaults, valve boxes, meter boxes, etc. as necessary to maintain free accessibility upon completion of seal coat application. Surfaces adjacent to seal coat application areas such as sidewalks, curb and/or gutter, storefronts, etc. shall be protected by use of felt paper anchored with clean aggregate, or by shielding components with plywood during application.
F. Coordinate limits of seal coat application operations with Owner's Construction Manager and Store Manager to avoid interruption to store operations. Protect adjacent areas of the parking lot outside of current seal coat application limits to avoid tracking onto adjacent areas. Partition off limits of current seal coat operations until surface is traffic ready.
G. Coordinate with Store Manager to deactivate lawn sprinkler systems least 48 hours prior to placing the seal coat and remain off for at least 24 hours after the seal coat application.

2.5 APPLICATION

A. Apply seal coat at a total rate (undiluted) of 0.17gal./SY.
B. Dampen pavement with a fog spray of water if ambient temperatures exceed 80°F. No standing water shall remain on the surface.
C. Apply the coat uniformly in a manner such that the combined application of the coat equals the total rate specified above.
D. Suspend application when the distribution tank has less than 100 gallons left and refill to prevent irregular patterns or misses.
E. The coat shall be allowed to dry and cure initially a minimum of 2-4 hours before applying any markings. The initial drying shall allow evaporation of water of the applied mixture, resulting in the coating being able to sustain light foot traffic. The initial curing shall enable the mixture to withstand vehicle traffic without damage to the seal coat.
F. The finished surface shall present a uniform texture with no streaks.
G. The single coat shall be allowed to dry a minimum of eight hours in dry daylight conditions before opening to traffic, and initially cure enough to support vehicular traffic without damage to the seal coat.
H. Where marginal weather conditions exist during the eight hour drying time, additional drying time shall be allowed. The length of time shall be as specified by the supplier. The surface shall be checked after the additional drying time for trafficability before opening the section to vehicle traffic.

END OF SECTION

PAVEMENT SPECIFICATIONS
PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Asphalt concrete binder and surface course.

B. Related Requirements:
   1. Section 01351 - Regulatory Compliance:
      a. Disposal and removal of hazardous construction and demolition waste.
      b. Work practice control methods for airborne respirable dust
   2. Section 02300 - Earthwork.
   3. Section 02715 - Base Course.
   4. Section 02765 _ Pavement Markings: Including removal of pavement markings.
   5. Section 02770 _ Curbs and Sidewalks.
   6. Appendix B - Testing, Inspection, and Observation by Owner.

1.2 REFERENCES

A. The publications listed below form a part of this specification to the extent referenced. Publications are referenced within the text by the basic designation only.

B. The Asphalt Institute (AI):
   1. MS-2 - Mix Design Methods For Asphalt Concrete And Other Hot-Mix Types.

C. State Highway Department Standard Specifications
   1. Standard Specifications for Construction and Materials - Local in the state where project is located.

D. ASTM International (ASTM):
   1. ASTM D1188 - Bulk Specific Gravity and Density of Compacted Bituminous Mixtures Using Coated Samples.
   2. ASTM D2041 - Theoretical Maximum Specific Gravity and Density of Bituminous Paving Mixtures.
   3. ASTM D2950 - Density of Bituminous Concrete in Place by the Nuclear Methods.
   4. ASTM D2726 - Bulk Specific Gravity and Density of Non-Absorptive Compacted Bituminous Mixture.
   5. ASTM D5444 - Mechanical Size Analysis of Extracted Aggregate.

E. American Association of State Highway and Transportation Officials (AASHTO):
   1. AASHTO M017 - Mineral Filler for Bituminous Paving Mixtures.
   2. AASHTO M140 - Emulsified Asphalt.
   3. AASHTO M208 - Cationic Emulsified Asphalt.
   4. AASHTO M320 - Performance-Graded Asphalt Binder
   5. AASHTO M323 - Superpave Volumetric Mix Design
   6. AASHTO T164 - Quantitative Extraction of Asphalt Binder from Hot-Mix Asphalt (HMA)
   7. AASHTO T166 - Bulk Specific Gravity of Compacted Hot-Mix Asphalt Mixtures Using Saturated Surface-Dry Specimens
   8. AASHTO T209 - Theoretical Maximum Specific Gravity and Density of Hot Mix Asphalt (HMA)
   9. AASHTO T245 - Resistance to Plastic Flow of Bituminous Mixtures Using Marshall Apparatus.
   10. AASHTO T275 - Bulk Specific Gravity of Compacted Hot-Mix Asphalt Mixtures Using Paraffin-Coated Specimens
   11. AASHTO T308 - Asphalt Content of Hot-Mix Asphalt (HMA) by the Ignition Method.
   12. AASHTOT312 - Preparing and Determining the Density of Hot-Mix Asphalt (HMA) Specimens by Means of the Superpave Gyratory Compactor.
   13. AASHTO T331 - Bulk Specific Gravity and Density of Compacted Bituminous Mixtures Using Automatic Vacuum Sealing Method

F. National Asphalt Pavement Association (NAPA):
   1. IS 123 - Recycling Hot-Mix Asphalt Pavements
   2. IS 128 - HMA Pavement Mix Type Selection Guide

   A. Occupational Safety and Health Administration (OSHA):
      1. OSHA 01926.1153 Respirable Crystalline Silica.

1.3 QUALITY ASSURANCE

A. Pre_installation Meeting: Convene a pre_installation meeting at the site at least two weeks prior to commencing work of this Section. Require attendance of parties directly affecting work of this Section, including, but not limited to, the Owner's representative, CTL's representative and inspector, Contractor, paving sub-contractor and job foreman.
   1. Contact Wal_Mart Construction Manager three weeks prior to pre_installation conference to confirm schedule.
   2. Record discussions of meeting and decisions and agreements (or disagreements) reached, and furnish copy of record to each party attending. Review foreseeable methods and procedures related to paving work, including the following:
      a. Review preparation and installation procedures and coordinating and scheduling required with related work.
      b. Review proposed sources of paving materials, including capabilities and location of plant that will manufacture hot-mix asphalt.
      c. Tour, inspect and discuss condition of subgrade, drainage structures, and other preparatory work.
      d. Review requirements for protecting paving work, including restriction of traffic during installation period and for remainder of construction period.
      e. Review and finalize construction schedule and verify availability of materials, installer's personnel, equipment, and facilities needed to make progress and avoid delays.
      f. Review paving requirements (drawings, specifications and other contract documents).
      g. Review required submittals, both completed and yet to be completed.
      h. Review required inspections, testing procedures.
      i. Review weather and forecasted weather conditions, and procedures for coping with unfavorable conditions.
      j. Review safety precautions relating to placement of paving.

1.4 SUBMITTALS

A. Submit mix designs to the Civil Engineering Consultant of Record at least 30 days prior to beginning asphalt paving operations. Mix designs over one year old will not be accepted by Owner. Mix design submittal shall follow the format as recommended by Asphalt Institutes Manual MS-2 and include the following:
   1. Type and Name of mix.
   2. Gradation Analysis.
   3. Optimum asphalt content.
   4. Grade of asphalt binder.
   5. Volumetric properties.
   6. References to local State Highway Department Specification for each material when applicable.

B. Submit approved mix designs and laboratory test results to CTL signed by the materials producer and Contractor certifying materials and mix ratios conform to the requirements specified herein.

C. Submit certification of asphalt placement as specified in Field Quality Control.

1.5 ENVIRONMENTAL REQUIREMENTS

A. Minimize dust emissions or provide equipment that suppresses dust.

1.6 PROJECT CONDITIONS

A. Weather Limitations:
   1. Apply tack coat when ambient or base surface temperature is above 40 F, and when temperature has been above 35 F for 12 hours immediately prior to application. Do not apply when base is wet, contains excess moisture, during rain, or when frozen.
   2. Construct asphalt concrete paving when ambient temperature is above 40 F.

B. Maintain access for vehicular and pedestrian traffic as required for other construction activities. Utilize temporary striping, flagmen, barricades, warning signs, and warning lights as required.

SPECIFICATIONS SHEET 2

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12/18/2024

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TOWN OF CAMERON, HARNETT COUNTY, NORTH CAROLINA

WALMART REAL ESTATE BUSINESS TRUST
BENTONVILLE, AR

Walmart

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PART 2 - PRODUCTS

2.1 MATERIALS

A. Aggregate: Use locally available materials and gradations that meet local State Highway Department Specifications and exhibit satisfactory records of previous installations. All aggregate requirements, including those for quality, shall meet those in AASHTO M323 for the specified traffic level.

B. Asphalt Binder: Asphalt binder shall be a performance-graded (PG) binder, meeting the requirements of M 320, which is appropriate for the climate and traffic-loading conditions at the site of the paving project and in compliance with the local State Highway Department Specifications for that location, or as specified by the contract documents.
1. Design reliability shall be 85% for the high- and low-temperature performance.
2. The minimum required PG binder shall be that which satisfies the required design reliability using the pavement temperature data determined.
3. The high-temperature grade shall be increased by one grade equivalent to accommodate low traffic speeds.

C. Tack Coat: Emulsified asphalt; AASHTO M140 or AASHTO M208, SS_1h, CSS_1, or CSS_1h, may be diluted with up to 1 part water to 1 part asphalt.

D. Mineral Filler: Rock or slag dust, hydraulic cement, or other inert material complying with AASHTO M17, if recommended by local State Highway Department Specifications.

E. Reclaimed Asphalt Pavement (RAP): RAP may be used in amounts not to exceed 20% by wt. The mix design shall contain the percentage of RAP that is to be used in the production. Production procedures using RAP material shall conform to NAPA IS 123. Additional RAP provisions shall be as follows:
1. Material-handling machinery shall not drive on the RAP stockpiles.
2. RAP maximum top size aggregate introduced into the mix shall be 1-1/2 inches.
3. Dust (fines) in the RAP, when added to the virgin aggregate, shall not exceed the requirements of the virgin mix design.
4. Moisture content shall be monitored to assure that the material can be thoroughly dried as it is processed.
5. Stockpiles shall be left uncovered or stored under the roof of an open-sided building.
6. Material handling front-end loader operators shall be experienced in handing RAP materials.
7. RAP shall be loaded in the cold feed bins in small consistent quantities without causing the material to compact in the bin.
8. RAP shall not be held in the bin for extended periods of time, especially on hot, humid days.
9. During production, RAP material shall not be allowed to contact open flame.

2.2 AGGREGATE SIZE REQUIREMENTS - SUPERPAVE MIX

A. Nominal Maximum Size The combined aggregate shall have a nominal maximum aggregate size of 4.75 to 19.0 mm for surface courses and no larger than 25 mm for subsurface courses in accordance with Table 3 of AASHTO M323. Selection of the appropriate nominal maximum aggregate size mixture shall be in accordance with NAPA IS 128.

B. Gradation Classification The combined aggregate gradation shall be classified as coarse-graded when it passes below the Primary Control Sieve (PCS) control point as defined in Table 4 of AASHTO M323. All other gradations shall be classified as fine-graded.

2.3 ASPHALT_AGGREGATE MIXTURE

A. Superpave Mix:
1. The initial, design, and maximum number of gyrations shall conform to the following:

Superpave Gyratory Compaction Effort

Design ESALs (Million)	Compaction Parameters $N_{initial}$	N_{design}	N_{max}
< 0.3	6	50	75
0.3 < 3	7	75	115

2. The design, when compacted in accordance with T 312, shall meet the relative density, VMA, VFA, and dust-to-binder ratio requirements specified in the following table. Air voids at N (design) shall be 4.0 percent.

Superpave HMA Design Requirements

Design ESALs[a] (Million)	Required Relative Density, Percent of Theoretical Maximum Specific Gravity			Voids in the Mineral Aggregate (VMA) Percent Minimum — Nominal Maximum Aggregate Size, mm				VFA Range, Percent	Dust-to-Binder Ratio Range[b]
	Ninitial	*Ndesign*	*Nmax*	25.0	12.0	9.5	4.75		
<0.3	≤91.5	96.0	≤98.0	12.0	14.0	15.0	16.0	70-80[c]	0.6-1.2
0.3 to <3	≤90.5	96.0	≤98.0	12.0	14.0	15.0	16.0	65-78	0.6-1.2

[a] Design ESALs are the anticipated project traffic level expected on the design project over a 20-year period. Regardless of the actual design life of the project, determine the design ESALs for 20 years.

[b] For the 4.75-mm nominal maximum size mixtures, the dust-to-binder ratio shall be 0.9 to 2.0.

[c] For the 25.0-mm nominal maximum size mixtures, the specified lower limit of the VFA range shall be 67 percent for design traffic levels < 0.3 million ESALs.

3. Aggregate gradation and asphalt content tolerances for acceptance of plant produced mix shall be as follows:

Property	Maxiumum tolerance for any one sample	Average of samples
3/4" (19 mm)	±7.0	±4.0
1/2" (12.5 mm)	±7.0	±4.0
#4 (4.75 mm)	±6.0	±3.5
#8 (2.36 mm)	±6.0	±3.5
#50 (0.3 mm)	±4.0	±2.3
#200 (0.075 mm)	±2.0	±1.2
Asphalt Content	±0.4	±0.3
Air Voids	±2.0	±1.2
VMA	> Min.	>Min.

B. Marshall Mix:
1. The design shall meet the requirements specified in the following table.

Marshall HMA Design Requirements

Design ESALs[a] (Million)	Compaction Effort[b] (Blows)	Design Air Voids, Percent	Voids in Meneral Aggregate (VMA), Percent Minimum				VFA Range, Percent	Minimum Stability, pounds	Flow, inches
			1 in.	3/4 in.	1/2 in.	3/8 in.			
< 0.3	50	3-5	12.0	13.0	14.0	15.0	70-82	1000	0.08-0.16
0.3 < 3	75	3-5	12.0	13.0	14.0	15.0	20-82	1500	0.08-0.16

a; Design ESALs are the anticipated project traffic level expected on the design project over a 20-year period. Regardless of the actual design life of the project, determine the design ESALs for 20 years.
b Flat-foot, static base hammer.

2. Aggregate gradation and asphalt content tolerances for acceptance of plant produced mix shall be as follows:

Property	Maxiumum tolerance for any one sample	Average of samples
3/4" (19 mm)	±7.0	±4.0
1/2" (12.5 mm)	±7.0	±4.0
#4 (4.75 mm)	±6.0	±3.5
#8 (2.36 mm)	±6.0	±3.5
#50 (0.3 mm)	±4.0	±2.3
#200 (0.075 mm)	±2.0	±1.2
Asphalt Content	±0.4	±0.3
Air Voids	±2.0	±1.2
VMA	> Min.	>Min.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify that the prepared base material has been inspected, tested, and gradients and elevations are correct, dry, and properly prepared in accordance with Section 02715.

3.2 PREPARATION

A. Proof roll prepared base material surface to check for unstable areas in accordance with Section 02300 including documentation and re-proof rolling as required. Paving work shall begin only after unsuitable areas have been corrected and are ready to receive paving.

B. Establish and maintain required lines and elevations.

C. Cover the surfaces of curbs, gutters, manholes and other structures on which the asphalt concrete mixture will be placed, with a thin, uniform coat of liquid asphalt. Where the asphalt concrete mixture will be placed against the vertical face of an existing pavement, clean the vertical face to remove foreign substances and apply a coating of liquid asphalt at a rate of approximately 0.25 gallons per square yard.

D. Density Control Strips.
1. Prior to beginning placement of asphalt, construct asphalt concrete density control strips.
2. Source and type of material, material requirements, and laydown and compaction equipment used for compaction shall be the same as that to be used in the project.
3. The subgrade or pavement layer upon which the control strip is constructed shall tested prior to construction of the control strip.
4. The control strip shall be a minimum of 250 linear feet long and one paver width wide.
5. Rolling the control strip shall continue until no appreciable increase in density is obtained by additional coverages.
6. Upon completion of rolling, the Contractor shall use a nuclear testing device to establish the mean density of the control strip. The mean density will be based on 10 tests taken at randomly selected sites within the control strip area. The nuclear gauge will be calibrated with the average of 3 cores taken from the same area. The average of the cores shall meet the specified density requirements. The calibration factor between the average nuclear density and average core density shall be applied to the Contractor's nuclear gauge for Contractor's density monitoring.

E. Equipment:
1. Equipment necessary for the paving of asphalt concrete shall be on the project prior to beginning paving operations.
2. Maintain equipment in satisfactory operating condition and correct breakdowns in manner that will not delay or be detrimental to the schedule of paving operations.

3.3 APPLICATION

A. Tack Coat:
1. Apply to contact surfaces of previously constructed asphalt concrete base courses or Portland cement concrete and surfaces abutting or projecting into asphalt concrete or into asphalt concrete pavement.
2. Apply tack coat to asphalt concrete base course or sand asphalt base course. Apply emulsified asphalt tack coat between each lift or layer of full depth asphalt concrete and sand asphalt bases and on surface of bases where asphalt concrete paving will be constructed.
3. Apply at rate which produces a residual of asphalt cement between 0.04 and 0.06 gal per sq. yd of surface.
4. Allow drying until at proper condition to receive paving.

3.4 ASPHALT CONCRETE PLACEMENT

A. Place asphalt concrete mixture on completed, compacted underlying surface, spread, and strike off. Spread mixture at the minimum ambient temperature that will allow the required density to be achieved.

B. Whenever possible, spread pavement by finishing machine; however, inaccessible or irregular areas may be placed by hand methods. Spread hot mixture uniformly to required depth with hot shovels and rakes. After spreading, carefully smooth hot mixture to remove segregated course aggregate and rake marks. Rakes and lutes used for hand spreading shall be type designed for use on asphalt mixtures. Do not dump loads faster that they can be properly spread. Workers shall not stand on loose mixture while spreading.

C. Placement and routing of hauling and placing equipment shall be conducted in a manner to avoid tire tracking of bituminous material onto existing paved surfaces.

D. Paving Machine Placement: Apply successive lifts of asphalt concrete in transverse directions except when placing within small areas, parallel lifts may be placed when considered more practical. Joints of successive parallel lifts shall be offset a minimum of 2 feet. Place surface course parallel to flow of traffic. Place asphalt paving in typical strips not less than 10'-0" wide. Asphalt concrete pavement, including base and surface course, shall be placed in two or more lifts as indicated on drawings. Pavement thicknesses shall be thickness shown on the drawings for each course but not less than 1-1/2 inch nor more than 3 inches for each lift.

3.5 ROLLING AND COMPACTION

A. After being spread, mixture shall be compacted by rolling as soon as it will bear the weight of rollers without undue displacement. Number, weight, types of rollers, and sequences of rolling operations shall be such that the required density and surface are consistently attained while the mixture is in workable condition.

B. Compact mixture with hot hand tampers or vibrating plate compactors in areas inaccessible to rollers.

C. Breakdown Rolling: Perform breakdown or initial rolling immediately following rolling of joints and outside edge. Check surface after breakdown rolling and repair displaced areas by loosening and filling with hot material.

D. Intermediate Rolling: Follow breakdown rolling as soon as possible while mixture is hot. Continue second rolling until mixture has been thoroughly compacted as follows:
1. Minimum Average Density: 93 percent of theoretical maximum density according to AASHTO T209 or ASTM D2041, with no individual test less than 91 percent nor greater than 97 percent.

E. Finish Rolling: Perform finish rolling while mixture is still warm enough for removal of roller marks. Continue rolling until roller marks are eliminated and course has attained maximum density.

F. Patching: Remove and replace paving areas mixed with foreign materials and defective areas. Cut out such areas and fill with fresh, hot asphalt concrete. Compact by rolling to maximum surface density and smoothness.

G. Protection: After final rolling, do not permit vehicular traffic on pavement until it has cooled and hardened. Erect barricades to protect paving from traffic until mixture has cooled enough not to become marked. Any masked or marred finish surfaces shall be repaired or smoothed.

H. Compaction at Unsupported Edges of Pavements: Start the first roller pass 12-15 inches from the unsupported edge. Allow the uncompacted asphalt to act as a dike to hold the mat in place. The final pass over the uncompacted dike should not slough off if the roller is supported on the compacted mat.

3.6 JOINTS

A. General: Place each asphalt paving layer as continuous as possible to keep the number of joints to a minimum. Create joints between old and new pavement, between successive days work, and where the mixture has become cold (less than 140 degrees F). Make these joints in such a manner as to create a continuous bond between the old and new pavement construction courses.

B. Construction joints shall have same texture, density, and smoothness as other sections of asphalt concrete course.

C. Transverse Joints: If placing of material is discontinued or if material in place becomes cold, make a joint running perpendicular to the direction traveled by the paver. Before placement continues, trim the edge of the previously placed pavement to a straight line perpendicular to the paver and cut back to expose an even vertical surface for the full thickness of the course. When placement continues, position the paver on the transverse joint so that sufficient hot mixture will be spread in order to create a joint after rolling that conforms to the required smoothness. If the temperature of the previously placed pavement material drops below 140 degrees F before paving is resumed, give the exposed vertical face a thin coat of liquid asphalt just before paving is continued.

D. Longitudinal Joints: Coat longitudinal joints that are not completed before the previously laid mixture has cooled to a temperature below 140 degrees F, with liquid asphalt just before paving is continued.

3.7 FIELD QUALITY CONTROL

A. Field quality control shall be the responsibility of the Contractor in accordance with Section 01452. Field quality control testing and inspection shall be at the discretion of the Contractor (except for specified mandatory testing listed below) as necessary to assure compliance with Contract requirements. Owner T&I shall not be considered a substitute for the Contractor's responsibility to perform similar routine, necessary, and customary testing and inspection of the methods and frequency suitable for the type of work involved.

B. Mandatory Testing:
1. Pavement Thickness: Measure pavement thickness behind the paver at the beginning of and during pavement placing operations to assure proper thickness.
2. Field Density Test For In-Place Materials: In-place density tests by nuclear method in accordance with ASTM D2950. Nuclear density shall be correlated with ASTM D1188 or D2726 or AASHTO T166, T275, T331 as applicable.
   a. Density tests on subgrades and aggregate base courses to be overlaid by pavements shall be performed within 48 hours prior to placement of the pavement lift. If inclement weather occurs after testing, retest prior to placement of next lift. Testing frequencies shall be as specified in Sections 02300 and 02715 respectively.

C. Coring holes remaining from cores taken by the CTL shall be immediately filled by the Contractor with full depth, hot-mix asphalt concrete or non-shrink grout tinted to match the surrounding pavement.

D. Obtain test samples for volumetric testing from the truck at the asphalt plant. Mixture samples shall be taken at least 2 times for every 8 hour day. Deliver samples to the CTL for testing by the CTL:

E. Areas of deficient paving, including compaction, smoothness, thickness, and asphalt mixture, shall be delineated, removed, and replaced in compliance with specifications requirements. Alternative remedial or corrective measures for repair of deficient paving may be allowed provided a plan of corrective action is submitted in the form of a Request For Information (RFI) and the plan is approved by the CEC.

F. Provide certification in writing that asphalt placement is in accordance with specification requirements.

G. Provide documentation to the CTL of proof rolling and of subgrade and aggregate base compaction testing prior to pavement placement each day in the areas to be paved including the density control strip.

3.8 OWNER TESTING AND INSPECTION (T&I) AND OBSERVATION

A. The Owner will perform testing and inspection (T & I) as specified in Appendix B (Section 02740).

END OF SECTION

REVISIONS	BY

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NORTH CAROLINA PROFESSIONAL SEAL 20376 ENGINEER JAMES A. LOWE
12/18/2024

SUPERCENTER #06958-1000
2800 NC-24 #87
TOWN OF CAMERON, HARNETT COUNTY, NORTH CAROLINA
WALMART REAL ESTATE BUSINESS TRUST
BENTONVILLE, AR

Walmart

DRAWN	GJ
CHECKED	BL
DATE	12-09-2024
SCALE	
JOB No.	24001422
SHEET	C750

SPECIFICATIONS SHEET 3

FILE NAME: K:\24001422 Wal Store #6958 - Cameron, NC\CAD\Engineering\14 PRODUCTION\24001422 - SPECS.dwg LAST SAVED BY: mlewis 12/7/2024 8:49 AM PLOTTED BY: Shay Shipley 12/7/2024 PAPER: ARCH FULL BLEED E1 (30.0 x 42.00 INCHES) DEVICE: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 PLOT STYLE: ATWELL.CTB

PLANTING SPECIFICATION

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
1. Planting of drought tolerant trees, shrubs, sod, seed, groundcover, and associated materials.

B. Related Requirements:
1. Section 02300 - Earthwork.
2. Section 02370 - Erosion and Sedimentation Control.
3. Section 02812 - Site Irrigation System.
4. Appendix B - Testing, Inspection, and Observation by Owner.

1.2 REFERENCES

A. The publications listed below form a part of this specification to the extent referenced. Publications are referenced within the text by the basic designation only.

B. American National Standards Institute (ANSI):
1. ANSI Z60.1 - American Standard for Nursery Stock.

C. ASTM International (ASTM):
1. ASTM D5268 - Topsoil used for Landscaping Purposes.
2. ASTM C602 - Agricultural Liming Materials.

D. Erosion Control Technology Council (ECTC):
1. Standard Specification for Rolled Erosion Control Products.

1.3 SUBMITTALS

A. Submittal Process: Submit in accordance with Section 01330 - Submittal Procedures.

B. Submittals shall be available at all times to the Wal-Mart Construction Manager.

C. Grower / Nursery Information: Submit name, address, phone number and contact person for each Grower / Nursery 30 days prior to plant material selection meeting.

D. Materials Test Reports: Submit topsoil borrow area test reports to Owner's Civil Engineering Consultant (CEC) minimum 6 weeks prior to delivery to site.
1. Provide location of topsoil borrow area.
2. Provide name of independent soil testing laboratory.
3. Provide date of sampling and testing.

E. Product Data:
1. Submit certification tags from trees, shrubs, sod, and seed verifying type and purity to Owner's CEC.
2. Submit photographs of each species of tree specified. Photographs shall be taken at grower's nursery prior to digging. Photographs shall contain tree with measuring rod in vertical position, showing overall height and spread with visual measurements, container size, root flair and rood condition inside the container, and trunk caliper. Submit 30 days prior to plant material selection meeting.

F. Sample: Submit minimum one cubic foot representative sample of wood or mineral mulch to Owner's CEC.

G. Quality Assurance Submittals:
1. Submit to Owner and Owner's CEC a copy of the invoice for each shipment of plant materials to the Project site. Invoice shall include name and size of each type of plant material.
2. Tree Transplanting Contractor Qualifications:
a. Provide statement of required qualifications of tree transplanting contractor.
b. Provide Owner project names, addresses, project owner's names and phone numbers for completed projects of similar scope.
c. Provide progress photographs of the tree transplanting process and final photographs taken at least 2 years after establishment.
d. Provide evidence of the health of at least 10 trees transplanted 3 or more years ago on at least 3 different projects. Trees shall be of similar size, species, and conditions of the trees indicated on the Plans.

H. Closeout Submittals:
1. Submit Meetings and Inspections Log prior to Final Completion of the Project.
2. Certification of Conformance: Provide certificate of satisfactory performance of planting operations signed by the Contractor and Landscape Architect for attachment to CEC Conformance Letter included at the end of Section 01456.

1.4 QUALITY ASSURANCE

A. Pre-Work Meeting: Convene a pre-work meeting minimum 30 days prior to commencing work on this Section. Review conditions of operations, procedures and coordination with related work. The pre-work meeting shall be set up as a conference call with the Landscape Architect.
1. Review planting schedule and maintenance.
2. Review required inspections, schedule of topsoil testing, and environmental procedures.

B. A Construction Testing Laboratory (CTL) selected and paid for by the Owner, will be retained to perform testing and analysis on in-place topsoil as specified in Appendix B. (Section 02900)
1. Contractor shall provide free access to site for testing activities.

C. Tree Transplanting Contractor Qualifications: Tree transplanting contractor shall meet the following qualifications:
1. Certified Arborist on staff.
2. Local representation and offices in the state or an adjoining state where the work is to be performed.
3. Minimum five years of experience transplanting and establishing trees of the same size, species, and quantity as shown on the plans.

D. Plant Material Selection:
1. Trees: Trees will be approved by the Landscape Architect at the tree grower nursery prior to purchase and delivery to the site. Approved tree plants will be tagged by the Contractor at the tree grower nursery. Trees delivered to the site shall be similar in size and quality to the approved tagged sample.
2. Shrubs: Deliver representative samples of each shrub variety and size to the Project site for verification of specification compliance. Mark shrubs with size, genus, species, cultivar, and variety.
3. Schedule and arrange meeting of landscape contractor and landscape architect for observation of plant material at the tree grower nursery. Tagging and observation will be based on compliance with requirements for genus, species, variety, cultivar, size, and quality.
4. Owner and landscape architect may observe trees and shrubs further for size and condition of balls and root systems, pests, disease symptoms, injuries, and latent defects.
5. Remove rejected trees or shrubs immediately from Project site.

E. Plant Measurements: Measure according to ANSI Z60.1. Spread, height, or container sizes shown on the drawings are minimum acceptable sizes. Do not prune to obtain required sizes. If range of sizes is given, no plant shall be less than minimum size, and at least 50 percent of plants shall be as large as upper half of range specified.
1. Trees and Shrubs: Measure with branches and trunks or canes in their normal position. Take height measurements from or near the top of the root flare for field-grown stock and container grown stock. Measure main body of tree or shrub for height and spread. Do not measure branches or roots tip to tip. Take caliper measurements 6 inches above the root flare for trees up to 4-inch caliper size, and 12 inches above the root flare for larger sizes.
2. Other Plants: Measure with stems, petioles, and foliage in their normal position.

F. Soil-Testing Laboratory Qualifications:
1. Multiresidue Herbicide/Pesticide Screen: A NELAC (National Environmental Laboratory Accreditation Conference) certified independent soil testing laboratory with the experience and capability to conduct the testing indicated based on local conditions.
2. Topsoil Analysis: Independent soil testing laboratory employing a landscape or soil agronomist familiar with the final use of the material and construction practices for large earthwork sites.

G. Quality Assurance Inspections: Conduct the following inspections during the course of the work in the presence of the Landscape Architect to verify conformance to specification requirements. Notify CEC for observation of inspection by the Landscape Architect. Correct noted deficiencies during each inspection prior to proceeding with subsequent work.
1. Island Inspection: Inspect parking islands for excavation depth and soil conditions prior to installation of planting or irrigation. Obtain sample of planting soil mix.
2. Substantial Completion Inspection: Convene a substantial completion inspection to observe completed work. Landscape Architect will record the deficient or incomplete items on the deviation log within 3 calendar days of inspection date.
3. Final Inspection: Within 30 days of substantial completion date, convene a final inspection to observe that all work is completed as specified and shown on the drawings.

H. Meeting and Inspection Log: Maintain log of required meetings and inspections. Record the date; time; weather conditions; and a brief summary of the discussions, decisions, agreements (or disagreements) reached. Provide log to CEC for signature and review by Landscape Architect at the conclusion of each meeting. Furnish copy of log to each party attending.

PLANTING SPECIFICATION CONT'D

1.5 MEETING AND EVENT NOTIFICATIONS

A. Provide the following notifications to the Owner's Civil Engineering Consultant (CEC) within the time period listed below. CEC will notify Owner, landscape architect, and other necessary sub consultants:
1. Pre-Work Meeting: Minimum 14 calendar days prior to meeting date.
2. Island Inspection: 7 calendar days prior to inspection date.
3. Tree Transplanting: Minimum 7 calendar days in advance for transplanting of trees 8 inches in caliper or greater.
4. Substantial Completion Inspection: 7 calendar days prior to substantial completion date.
5. Final Inspection: 7 calendar days prior to Grand Opening.

B. Provide notifications by email or other written means to show proof of delivery.

1.6 PROJECT CONDITIONS

A. Perform work only during weather conditions favorable to landscape construction and to health and welfare of plants. Owner shall determine suitability of such weather conditions.

1.7 WARRANTY

A. Guarantee plant material for a period of 12-19 months following the Substantial Completion Date in accordance with the Extended Maintenance/Warranty Chart included in Part 3 hereinafter.
1. A limit of one replacement of each plant shall be required, except for losses or replacements due to failure to comply with requirements.
2. Remove from site any plant that is dead or unsatisfactory to Owner, Jurisdiction having Authority, or Landscape Architect. Replace plants during normal planting season.

1.8 EXTENDED MAINTENANCE SERVICE

A. Provide extended landscape maintenance beyond Substantial Completion as specified in Part 3 Paragraph “Extended Maintenance” for a period as stated in the Extended Maintenance/Warranty Chart included therein. Pursuant to Paragraph 20.5 of the General Conditions, and the associated Performance Bond (Exhibit A) therein, the extended maintenance specified in this section shall be considered within the maintenance obligation of the bond.

PART 2 - PRODUCT

2.1 WOODY PLANT MATERIALS

A. Furnish nursery-grown trees and shrubs complying with ANSI Z60.1 and the following requirements:
1. Provide plants with healthy root systems developed by transplanting or root pruning.
2. Provide well-shaped, fully branched, healthy, vigorous stock free of disease, insects, eggs, larvae, and defects such as disfiguring knots, sun scald, injuries, abrasions, and disfigurement.
3. Provide selected specimen quality plants being exceptionally heavy, symmetrical, tight knit, so trained or favored in their development and appearance as to be superior in form, number of branches, compactness and symmetry.
4. Do not prune plants before delivery.
5. Trees with fresh cuts of limbs over 1 1/4-inch, which have not completely calloused, shall be rejected.
6. Provide plants typical of their species or variety and exhibiting a normal habit of growth and be legibly tagged with proper name. Provide plants grown under climatic conditions similar to those of site or have been acclimated to such condition for at least 2 years.
7. Root system of each plant shall be well-provided with fibrous roots. Parts shall be sound, healthy, vigorous, well_branched, and densely foliated when in leaf.
8. Plants designated ball and burlap shall be moved with root systems as solid units with balls of earth firmly wrapped with burlap and comply with the following:
a. Diameter and depth of balls of earth shall be sufficient to encompass fibrous root feeding systems necessary for healthy development of plant.
b. No plant shall be accepted when ball of earth surrounding its roots has been cracked or broken preparatory to or during process of planting. Balls shall remain intact during all operations.
c. Heel-in plants that cannot be planted immediately by setting in ground and covering balls with soil or mulch and then watering.
d. Hemp burlap and twine is preferable to treated. If treated burlap is used, twine shall be cut from around trunk and burlap shall be removed.
9. Provide single trunk trees growing from single unmutilated crown of roots. No part of trunk shall be conspicuously crooked as compared with normal trees of same variety.
10. Provide shrubs with thickness corresponding to trade classification "No.1". Single-stemmed or thin plants shall not be accepted. Side branches shall be generous, well_twigged, and plant as whole well_branched to ground. Plants shall be in moist condition, free from dead wood, bruises, or other root or branch injuries.

2.2 LAWN SEED

A. Provide fresh, clean, new crop lawn seed mixture. Furnish to Owner dealers guaranteed statement of composition of mixture and percentage of purity and germination of each variety.

B. Seed Mixture: Provide seed of grass species and varieties, proportions by weight and minimum percentages of purity, germination, and maximum percentage of weed seed. Seed mixtures vary by region and season and shall comply with State DOT and Local Soil Conservation Service Standards for lawn turf.

2.3 SOD

A. Provide sod species suitable as lawn turf for the region. Sod shall be strongly rooted, weed, disease, pest free and uniform in thickness.

2.4 GROUNDCOVER

A. Provide groundcover established and well rooted in pots or similar containers and comply with ANSI Z60.1. Slopes steeper than a 3:1 shall receive one or more of the specific regional groundcovers listed below or as shown on the drawings.
1. NORTHEAST
Coronilla variaCrown VetchHedera helixEnglish Ivy Parthenocissus quinquefolia Virginia Creeper

2. MIDWEST
Coronilla varia Crown Vetch Hedera helix English Ivy Vinca minorPeriwinkle

3. SOUTHEAST
Coronilla varia Crown Vetch Periwinkle

4. NORTHWEST
Hypericum St. John's Wart Euonymous fortunei Wintercreeper Vinca minor Periwinkle

5. SOUTHWEST
Oenothera berlandiera Mexican Evening Primrose Dalea greggii Trailize Indigo Bush Merremia aurea
Yellow Morning Glory

6. SOUTH FLORIDA AND SOUTH TEXAS
Ajuga reptans Carpet Bugle Euonymous fortunei Wintercreeper Hypericum St. John's Wart

2.5 TOPSOIL

A. ASTM D5268, natural, friable, fertile, fine loamy soil possessing characteristics of representative topsoil in the vicinity that produces heavy growth. Topsoil shall have a pH range of 5.5 to 7.4 percent, free from subsoil, objectionable weeds, litter, sods, stiff clay, stones larger than 1-inch in diameter, stumps, roots, trash, herbicides, toxic substances, or any other material which may be harmful to plant growth or hinder planting operations. Top soil shall contain a minimum of three percent organic material.

B. Topsoil shall be tested in accordance with part 3 below.

C. Salvaged or Existing Topsoil: Reuse suitable topsoil stockpiled on-site or existing topsoil undisturbed by grading or excavation operations. Clean topsoil of roots, plants, sod, stones, clay lumps, and other extraneous materials harmful to plant growth.

D. Verify amount of suitable topsoil stockpiled if any, and supply additional imported topsoil as needed.

E. Imported Topsoil: Supplement salvaged topsoil with imported topsoil from off-site sources when existing quantities are insufficient.
1. Obtain topsoil displaced from naturally well-drained sites where topsoil occurs at least 6 inches deep; do not obtain from agricultural land, bogs, or marshes.
2. Verify borrow and disposal sites are permitted as required by state and local regulations. Obtain written confirmation that permits are current and active.
3. Obtain permits required by state and local regulations for transporting topsoil. Permits shall be current and active.

F. Amend existing and imported topsoil as indicated in part 3 below.

PLANTING SPECIFICATION CONT'D

2.6 ORGANIC SOIL AMENDMENTS

A. Manure: Well-rotted, unleached, stable or cattle manure containing not more than 25 percent by volume of straw, sawdust, or other bedding materials; free of toxic substances, stones, sticks, soil, weed seed, and material harmful to plant growth.

B. Back to Nature Cotton Burr Compost or approved equivalent.

C. Compost: Decomposed organic material including leaf litter, manure, sawdust, plant trimmings and/or hay, mixed with soil.

D. Pecan Hulls: Composted pecan hulls for local source.

E. Biosolids: Use Grade 1 containing lower pathogen levels.

F. Worm Castings: Earthworms.

2.7 INORGANIC SOIL AMENDMENTS

A. Lime: ASTM C602, Class O agricultural limestone containing a minimum of 80 percent calcium carbonate equivalent with a minimum of 95 percent passing No. 8 sieve and minimum of 55 percent passing No. 60 sieve.

B. Sulfur: Granular, biodegradable, containing a minimum of 90 percent sulfur, with a minimum of 99 percent passing No. 6 sieve and a maximum of 10 percent passing No. 40 sieve.

C. Iron Sulfate: Granulated ferrous sulfate containing a minimum of 20 percent iron and 10 percent sulfur.

D. Agricultural Gypsum: Finely ground, containing a minimum of 90 percent calcium sulfate.

E. Sand: Clean, washed, natural or manufactured, free of toxic materials.

2.8 PLANTING ACCESSORIES

A. Non Selective Herbicide: Roundup-Pro, Finale or equivalent.

B. Selective Post Emergent Herbicide: EPA registered and approved, of type recommended by manufacturer for application.

C. Selective Pre-Emergent Herbicide: EPA registered and approved, of type recommended by manufacturer for application.

2.9 PLANTING SOIL MIX

A. Planting medium containing 75 percent specified topsoil mixed with 15 percent organic soil amendments and 10 percent sharp washed sand.

2.10 FERTILIZER

A. Commercial Fertilizer: Commercial-grade complete fertilizer of neutral character, consisting of fast- and slow-release nitrogen, 50 percent derived from natural organic sources of urea formaldehyde, phosphorous, and potassium.
1. Composition: Nitrogen, phosphorous, and potassium in amount required to remedy deficiencies identified in the results of the existing topsoil and in-place topsoil test performed by the geotechnical engineering company and the CTL.

B. Slow-Release Fertilizer: Use one of the following:
1. Osmocote Standard Granular fertilizer by Scotts Company composed of 13 percent nitrogen, 13 percent phosphorous, and 13 percent potassium, by weight.
2. Multi-Cote All Purpose by Schultz composed of 17 percent nitrogen, 17 percent phosphorous, and 17 percent potassium, by weight.

C. Deliver fertilizer, mixed as specified, in original unopened standard size bags showing weight, analysis and name of manufacturer. Containers shall bear manufacturer's guaranteed statement of analysis, or mnufacturer's certificate of compliance covering analysis shall be furnished to Owner. Store fertilizer in such manner that it shall be kept dry.

D.

2.11 MULCH

A. Stone Mulch: Stone mulch shall consist of smooth or tumbled rock. Mulch shall be hard, durable stone, washed free of loam, sand, clay, and other foreign substances.
1. Size: Provide medium or large stone size range, with equal proportions of stones of each size in each distribution.
a. Medium range: 2 inch to 4 inch.
b. Large range: 3 inch to 6 inch.
2. Depth: 4 inches minimum for medium stone size range, 6 inches minimum for large stone size range, and to the depth sufficient for 100% coverage of weed barrier mat.
3. Color: As specified on the plans.

B. Wood Mulch: Wood mulch shall be shredded hardwood or softwood mulch obtained from a local source harvested in a sustainable manner and salt free and free from deleterious materials and suitable as a top dressing of trees and shrubs. Mulch shall have the characteristics of retaining moisture, forming a mat not susceptible to spreading by wind or rain, and providing a suitable growth medium for plants and shall be free of soil, rocks, weeds, sawdust, dirt, garbage, or other debris.
1. Hardwood Mulch: Shredded hardwood mulch shall consist of long fibrous interlocking strands.
2. Softwood Mulch: Softwood mulch shall be medium sized softwood material 1/2 to 3 inches with fines of 1/2 inches and below produced from douglas fir, hemlock, or red cedar.
3. Color: Natural.

C. Mineral Mulch: Mineral mulch shall consist of decomposed granite, crushed rock, or gravel. Mulch shall be hard, durable stone, washed free of loam, sand, clay, and other foreign substances.
1. Where wood mulch is shown or specified, mineral mulch shall be used where regionally appropriate or where wood mulch is not readily available.
2. Size Range: 3/4 inch maximum 1/4 inch minimum.
3. Color: Readily available natural gravel color range.
4. Pea Gravel: Not allowed.

D. Straw Mulch: Straw mulch shall be used for seeding purposes only and shall be air-dry, clean, mildew and seed free, salt hay or threshed straw of wheat, rye, oats, or barley.

E. Hardwood or Softwood Bark Mulch or Pine Needle Mulch is not allowed.

2.12 TREE STAKING

A. Tree Frog Below Ground Root Ball Tree Staking System by Tree Frog Environmental Products, LLC. (325) 735-7411.
1. RBK40pt for trees 4 inches caliper or smaller.
2. RBK60pt for trees 4" - 6 inches caliper.

2.13 WATER

A. Potable water, hose, and other watering equipment.

2.14 WEED MAT

A. 4.1 oz., woven polypropylene, needle-punched fabric, weed barrier.

2.15 STEEL EDGING

A. 1/8-inch x 4-inch interlocking steel edging, staked with metal stakes sufficiently to hold in place.

2.16 EROSION CONTROL BLANKET

A. Rolled Erosion Control Products shall have current QDOR™ (Quality Data Oversight and Review) status issued by the Erosion Control Technology Council and shall meet state or agency specific requirements. Evidence of QDOR™ approval shall accompany the product shipped to the job site for ready identification by the contractor or an agency inspector.

SPECIFICATIONS SHEET 4

REVISIONS	BY

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NORTH CAROLINA PROFESSIONAL SEAL 20376 ENGINEER A MESA LOWE
12/18/2024

SUPERCENTER #06958-1000
2800 NC-24 #87
TOWN OF CAMERON, HARNETT COUNTY, NORTH CAROLINA

WALMART REAL ESTATE BUSINESS TRUST
BENTONVILLE, AR

Walmart

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DATE	12-09-2024
SCALE	
JOB No.	24001422
SHEET	C760

FILE NAME: A:\24001422 Wal Store 6958- Cameron, NC\CAD\Engineering\24 PRODUCTION\24001422 - SPEC3.dwg LAST SAVED BY: mlewis 12/7/2024 8:49 AM PLOTTED BY: Shea Shipley 1/7/2025 PAPER: ARCH FULL BLEED D: (30.00 X 42.00 INCHES) SCHOOL AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 PLOT STYLE: ATWELL.CTB

PLANTING SPECIFICATION- CONT'D

PART 3 - EXECUTION

3.1 PREPARATION

A. If project completion date prohibits in_season planting, prepare for out_of_season seeding or sodding so that lawns shall be completed and ready for acceptance at time of project completion.

B. Unsuitable Subsoils: Locations containing unsuitable subsoil shall be treated by one or more of the following:
1. Where unsuitability is deemed by Owner to be due to excessive compaction caused by heavy equipment and where natural subsoil is other than AASHTO classification of A6 or A7, loosen such areas with spikes, discing, or other means to loosen soil to condition acceptable to Owner. Loosen soil to minimum depth of 12 inches with additional loosening as required to obtain adequate drainage. Contractor may introduce peat moss, sand, or organic matter into the subsoil to obtain adequate drainage. Such remedial measures shall be considered as incidental, without additional cost to Owner.
2. Where unsuitability is deemed by Owner to be due to presence of boards, mortar, concrete, or other construction materials in sub_grade and where natural subsoil is other than AASHTO classification of A6 or A7, remove debris and objectionable material. Such remedial measures shall be considered as incidental, without additional cost to Owner.
3. Where unsuitability is deemed by Owner to be because natural subsoil falls into AASHTO classification of A6 or A7 and contains moisture in excess of 30 percent, then installation of sub_drainage system or other means described elsewhere in Specifications shall be used. Where such conditions have not been known or revealed prior to planting time and they have not been recognized in preparation of The Drawings and Specifications, then Owner shall issue pricing order to install proper remedial measures.

C. Unsuitable Topsoil: Locations containing unsuitable topsoil shall be treated by one or more of the following:
1. Where unsuitability is deemed by Owner to be because of presence of objectionable weeds; litter; sods; stiff clay; toxic substances; herbicides or other material which may be harmful to plant growth, then topsoil shall be removed from the site and disposed of in a legal manner.
2. Where unsuitability is deemed by Owner to be because of presence of the stumps, roots; stones larger than 1 inch in diameter; less than 3 percent organic material; low or high pH range, remove objectionable material and amend topsoil to meet the requirements specified in part 2 above. Such remedial measures shall be considered as incidental, without additional cost to Owner.

D. Perform planting operations at steady rate of work unless weather conditions make it impossible to work. No plant material shall be planted in frozen ground.

E. Tree and Shrub Preparation
1. Dig bare-rooted shrubs with adequate fibrous roots. Cover roots with uniformly thick coating of mud by being puddled immediately after they are dug, or packed in moist straw or moss.
2. Dig ball and burlap plants with firm natural balls of earth of diameter and depth to include fibrous roots.
3. Protect roots or balls of plants at all times from sun and drying winds.
4. Ball and burlap plants which cannot be planted immediately upon delivery shall be set on ground and protected with soil, wet moss, or other acceptable material. Heel-in bare rooted plants that cannot be planted immediately upon delivery. All shall be kept moist.
5. Open and separate bundles of plants before roots are covered. Prevent air pockets among roots. During planting operations, cover bare roots with canvas, hay, or other suitable material. Plants shall not be bound with wire or rope which will result in damage to bark or branches.

F. Sod and Seed Bed Preparation
1. Newly Graded Subgrades:
   a. Do not place topsoil until subgrade has been approved in accordance with Section 02300.
   b. Before placing topsoil, rake subsoil surface clear of stones, debris, and roots. Disk, drag, harrow, or hand rake subgrade to depth of 4 inches and remove stones larger than 1-1/2 inches to provide bond for topsoil.
   c. Spread topsoil to a depth of 4 inches but not less than required to meet finish grades after light rolling and natural settlement. Adjust depth of topsoil in areas adjacent to paved surfaces or curbs to allow for the placement of sod or seed.
2. Unchanged Subgrades: If lawns are to be planted in areas unaltered or undisturbed by excavating, grading, or surface-soil stripping operations, prepare surface as follows:
   a. Remove existing grass, vegetation, and turf. Do not mix into surface soil.
   b. Disk, drag, or harrow surface soil to a depth of at least 6 inches.
   c. Remove stones larger that 1-1/2 inch in any dimension and sticks, roots, trash, and other extraneous matter.
   d. Legally dispose of waste material, including grass, vegetation, and turf.
   e. Adjust depth of topsoil in areas adjacent to paved surfaces or curbs to allow for the placement of sod or seed.
3. Incorporate soil amendments and commercial fertilizer into the top 4 inches of topsoil to achieve the specified topsoil requirements. Till soil to a homogenous mixture of fine texture.
4. Grade areas to finish grades, filling as needed or removing surplus topsoil. Float areas to smooth, uniform grade as indicated on the Drawings. Lawn areas shall slope to drain.
5. Where no grades are shown, areas shall have a smooth and continual grade between existing or fixed controls, such as walks, curbs, catch basin, steps, or buildings. Roll, scarify, rake, and level as necessary to obtain true, even lawn surfaces. Finish grades shall meet approval of Owner.
6. Sod and seed beds shall be firmed by rolling before seeding begins.

G. Groundcover Bed Preparation:
1. Grade areas to finish grades, filling as needed or removing surplus topsoil. Float areas to smooth, uniform grade as indicated on the Drawings.
2. Set out and space groundcover 12 inches apart maximum.
3. Dig holes large enough to allow spreading of roots, and backfill with planting soil.
4. Remove groundcover from pots.
5. Work soil around roots to eliminate air pockets and leave a slight saucer indention around plants to hold water.
6. Water thoroughly after planting taking care not to cover plant crowns with wet soil.
7. Protect plants from hot sun and wind; remove protection when plants show evidence of recovery from transplanting shock.

H. Island Preparation:
1. Excavate compacted soil to a depth of 24 inches.
2. Maintain required angles of repose of adjacent materials as shown on the Drawings. Do not excavate subgrades of adjacent paving, structures, hardscapes, or other new or existing improvements.
3. Scarify sides of excavation pit smeared or smoothed during excavation.
4. Subsoil or topsoil removed from islands shall not be used in planting soil mix.
5. Notify Owner's CEC if subsoil conditions evidence unexpected water seepage or retention within excavation area.
6. Backfill islands in 9 inch lifts with planting soil mix specified herein. Tamp each lift lightly to prevent settling.
7. Grade areas to finish grades, filling as needed to allow positive drainage. Float areas to a smooth, uniform grade as indicated on the Drawings.

I. Raised Planter Preparation:
1. Excavate compacted soil and construction debris within raised planter to minimum 12 inches below finish grade of adjacent sidewalk.
2. Notify Owner's CEC if subsoil conditions evidence unexpected water seepage or retention with the excavation area.
3. Scarify bottom of excavation and provide positive drainage to drainage pipe.
4. Install drainage pipe as shown in the drawings.
5. Backfill raised planter in 9 inch lifts with specified planting soil mix to within 1 inch of bottom edge of wall cap. Tamp each lift lightly to prevent settling. If settling occurs prior to planting add additional planting soil mix.
6. Grade areas to finish grades, filling as needed to allow positive drainage. Float areas to a smooth, uniform grade as indicated on the Drawings.

3.2 PROTECTION

A. Topsoil which must be transported across finished sidewalks shall be delivered in such manner that no damage will be done to sidewalks.

B. Before commencing work, trees and shrubs that are to be saved shall be protected from damage by placement of fencing flagged for visibility or some other suitable protective procedure approved by Owner.

C. Trucks or other equipment shall not be driven or parked within drip line of any tree unless tree overspreads paved area.

D. Use precautionary measures when performing work around trees, sidewalks, pavements, utilities, and other features either existing or previously installed.

E. Adjust depth of earthwork and topsoil when working immediately adjacent to aforementioned features in order to prevent disturbing tree roots, undermining sidewalks and pavements, and damage in general to other features either existing or previously installed.

F. Cover plants transported to project in open vehicles with tarpaulins or other suitable covers securely fastened to body of vehicle to prevent injury to plants. Closed vehicles shall be adequately ventilated to prevent overheating of plants. Evidence of inadequate protection following digging, carelessness while in transit, or improper handling or storage shall be cause for rejection. Plants shall be kept moist, fresh, and protected. Such protection shall encompass entire period during which plants are in transit, being handled, or are in temporary storage.

G. Plants shall not be delivered to the site more than seven days prior to planting. Plants not planted within 48 hours of delivery, shall be healed in (covered with sawdust, soil or mulch), and the containers or balls protected from wind and temperature and kept moist until planting.

PLANTING SPECIFICATION CONT'D

H. Where excavation, fill, or grading is required within drip line of trees that are to remain, work shall be performed as follows:
1. Trenching: When trenching occurs around trees to remain, tree roots shall not be cut but trench shall be tunneled under or around roots by careful hand digging without injury to roots.
2. Raising Grades:
   a. Where fill not exceeding 16 inches is required, clean, washed gravel graded from 1 inch to 2 inches in size shall be placed directly around tree trunk. Extend gravel out from trunk on all sides minimum of 18 inches and finish approximately 2 inches above finished grade at tree. Install gravel before any earth fill is placed. New earth fill shall not be left in contact with trunks of trees requiring fill.
   b. Where fill exceeding 16 inches is required, construct dry-laid tree well around trunk of tree. Tree well shall extend out from trunk on all sides minimum of 3 feet and to 3 inches above finish grade. Place coarse-graded rock directly around tree well extending out to drip line of tree. Place clean, washed gravel graded from 1 inch to 2 inches in size directly over coarse rock to depth of 3 inches. Place approved backfill material directly over washed gravel to desired finish grade.
3. Lowering Grades: Existing trees in areas where new finish grade is to be lowered shall have regrading work done by hand to elevation indicated on The Drawings. Roots as required shall be cut cleanly 3 inches below finished grade and scars covered with tree paint.
4. Trees marked for preservation that are more than 6 inches above proposed grades shall stand on broad rounded mounds and graded smoothly into lower level. Trees located more than 16 inches above proposed grades shall have dry-laid stone wall or other retaining structure as detailed on The Drawings constructed minimum of 5 feet from trunk. Exposed or broken roots shall be cut clean and covered with topsoil.

3.3 PLANTING BED ESTABLISHMENT

H. Prior to preparing planting beds, the area shall conform to the lines and grades shown on the plans and the condition of the subsoil shall be approved by the Owner.

I. Contractor shall verify the location of any underground utilities on site.

J. Planting beds where existing subsoil is determined by Owner to be unsuitable for plant growth in accordance paragraph Unsuitable Subsoil herein shall be excavated to a depth of 24 inches or as needed to provide adequate drainage. Replace excavated soil with planting soil mix.

K. Planting beds where existing subsoil is acceptable by Owner shall be prepared as follows:
1. Seven days prior to commencing establishment of the planting areas, apply non selective herbicide. Remove dead vegetation.
2. Loosen subsoil to a depth of 12 inches. Remove stones larger than 1 inch in any dimension, sticks, roots, rubbish, and other extraneous matter and legally dispose of them off site.
3. Spread 3 inches of soil conditioner over the surface of the planting area and incorporate into the top 12 inches of the soil. Prior to spreading soil conditioner, add or remove topsoil as needed to accommodate addition of soil conditioner and to achieve finish grade.
4. Till planting soil mix to a homogenous mixture of fine texture.
5. Float areas to smooth, uniform grade providing positive drainage out of planting beds and away from structures or as indicated on the Drawings.

E. Apply slow release fertilizer at a rate of 1-1/2 pounds per 100 square feet for beds areas or as recommended by manufacturer and incorporate into the top 8 inches.

3.4 TREATMENT OF EXISTING TREES

A. Prune or remove existing trees as indicated on the planting plan.

3.5 TREE AND SHRUB PLANTING

A. Plants too large for 2 persons to lift in and out of holes shall be placed with sling. Do not rock trees in holes to raise.

B. If rock or other underground obstruction is encountered, Owner may require plant pits to be relocated, pits enlarged, or plants deleted from project.

C. Make adjustments in locations as directed. In event that pits or areas for planting are prepared and backfilled with planting soil mix or topsoil to grade prior to commencement of lawn operations, they shall be so marked that when planting proceeds, they can be readily located. In case underground obstructions such as ledges or utilities are encountered, change location under direction of Owner without charge.

D. Holes for trees shall be at least 2 feet greater in diameter than spread of root system and at least 6 inches deeper than root ball or as shown on the Drawings. Holes for shrubs shall be at least 2 feet greater in diameter than the spread of root system and at least 2 feet deep or as shown on the Drawings. Holes for vines shall be at least 12 inches greater in diameter than the spread of root ball at least 12 inches deep.

E. Remove the top half of wire baskets, the sides of any boxes, or other root ball holding device along the side of the root ball.

F. Backfill tree holes and shrub beds with planting soil mix. Apply slow release fertilizer at a rate of 1/4 pounds per caliper inch for trees. Incorporate fertilizer into the planting soil mix.

G. Plants shall be planted at same depth as they had previously grown or as shown on the drawings. Backfill planting soil mix in layers of not more than 8 inches and each layer watered sufficiently to settle before next layer is placed. Tamp planting soil mix under edges of balled plants. Use enough planting soil mix to bring surfaces to finish grade when settled.
1. Provide saucer around each plant as shown on The Drawings.
2. Soak plants with water twice within first 24 hours after time of planting. Apply water with low pressure so as to soak in thoroughly without dislodging topsoil.

H. Tree Staking: Install Tree Frog Root Ball Tree Staking System as shown on the drawings.

3.6 MISCELLANEOUS INSTALLATIONS

A. Weed Mat: Place weed mat under planting areas that will not be seeded and in any other locations as shown on the Drawings. Cover weed mat with 4 inches of mulch and secure in place with soil staples.

B. Mulch: Place 4 inches of mulch as a top dressing in planting beds. Mulch single trees or shrubs to outside edge of saucer.

C. Peg sodded slopes greater than 3:1 to hold in place.

D. Areas to be covered with erosion control blankets shall be properly prepared, fertilized, and seeded before blanket is applied. When blanket is unrolled, netting shall be on top and fibers in contact with soil. In ditches, apply blanket in direction of flow of water. On slopes, apply blankets vertically on slope. Overlap ends and sides 6 inches and staple per manufacturer's written instructions.

3.7 AREAS TO BE TURFED

A. Unless otherwise shown on the plans, disturbed areas including out-lots shall be permanently sodded and seeded.

B. Place 16-24 inch wide strip of solid slab sod adjacent to paved surfaces including sidewalks, curbs, walls, drainage structures, and vehicular pavement as shown on the drawings.

C. Continually seed remaining disturbed areas until fully turfed with no bare spots.

3.8 SOIL STABILIZATION

A. Provide one or more of the following techniques to prevent soil eroding from denuded areas and leaving the site. Refer to stabilization requirements in Section 02370.
1. Temporary Seeding or Stabilization.
2. Permanent Seeding, Sodding, or Mulching.

3.9 SEEDING

A. Do not perform seeding in windy conditions.

B. Seeding shall be dispersed in 2 directions at right angles to each other.

C. Permanently seed and mulch cut and fill slopes as construction proceeds to extent considered desirable and practical. In the event it is not practical to seed areas, slopes shall be stabilized with straw mulch and tackifier, bonded fiber matrix, netting, blankets or other means to reduce the erosive potential of the area.

D. Seed lawn areas by sowing evenly with approved mechanical seeder at rate of minimum of 3 pounds per 1,000 square feet. Culti_packer or approved similar equipment may be used to cover seed and to form seedbed in one operation. In areas inaccessible to culti_packer, lightly rake seeded ground with flexible rakes and roll with water ballast roller. After rolling mulch with straw mulch at the rate of 2 tons per acre.

E. Surface layer of soil for seeded areas shall be kept moist during germination period. Water seeded areas twice first week to minimum depth of 6 inches with fine spray and once per week thereafter as necessary to supplement natural rain to equivalent of 6 inches depth.

3.10 SODDING

A. Cut and lay sod on same day. Only healthy vigorous growing sod shall be laid.

B. Lay sod across slope and tightly together to result in solid coverage free of gaps.

C. Roll or firmly but lightly tamp new sod with suitable wooden or metal tamper sufficiently to set or press sod into underlying soil.

D. All finished sodding shall be smooth and free of lumps and depressions.

After sodding has been completed, clean up and thoroughly water newly-sodded areas.

PLANTING SPECIFICATION CONT'D

3.11 MAINTENANCE DURING CONSTRUCTION

A. Begin maintenance operations immediately after each plant is planted and continue as required until acceptance. Water, mulch, weed, prune, spray, fertilize, cultivate, and otherwise maintain and protect plants. Reset settled plants to proper grade and position, restore planting saucers, and remove dead, diseased, or unhealthy plant material. Tighten and repair stakes and wires. Correct defective work as soon as possible after it becomes apparent and weather and season permit.

B. Upon completion of the planting operations, clean up landscaped areas to be free of stones, containers, trash, and other waste and debris to leave area in a neat and well groomed appearance.

C. Supplement rainfall as required to provide an equivalent of 1 inch of water per week until the plants have rooted and are established.

D. Maintain all plant material in a healthy, vigorous growing condition.

E. Make weekly inspections to determine moisture content of soil and adjust watering schedule established by irrigation system installer to fit conditions.

F. After grass growth has started, reseed or sod areas that fail to show uniform stand of grass in accordance with The Drawings and as specified herein. Continue Reseeding and sodding such areas repeatedly until areas are covered with satisfactory growth of grass. Perform removal and replacement or topsoil conditioning if required to facilitate establishment of grass.

G. Water in such manner and as frequently as is deemed necessary by Owner to assure continued growth of healthy grass. Water areas of site in such a manner as to prevent erosion due to excessive quantities applied over small areas and to avoid damage to finished surface due to watering equipment.

H. Provide water for execution and maintenance at no expense to Owner. Furnish portable tanks, pumps, hose, pipe, connections, nozzles, and any other equipment required to transport water from available outlets and apply it to seeded areas in approved manner.

I. Mowing:
1. Initiate mowing of turf grass areas when grass has attained height of 3 inches and roots are firmly established. Maintain turf grass height at 2 1/2 to 3 inches at subsequent cuttings depending on time of year. Remove no more than 1/3 of grass leaf at any cutting and cutting shall not occur more than 10 days apart.
2. Mow native grass areas no more than 3 times per year to a height of no less than 4 inches.

J. Remove heavy cuttings to prevent destruction of underlying turf. If weeds or other undesirable vegetation threaten to smother planted species, such vegetation shall be mowed or, in case of rank growths, shall be uprooted, raked and removed from area by methods approved by Owner.

K. Remove weeds and other undesirable vegetation by applying herbicides as recommended by the manufacturer or by uprooting. Rake and remove uprooted vegetation from area by methods approved by Owner.

L. Protect seeded area from pedestrian or vehicular trespassing while grass is germinating. Provide fences, signs, barriers, or other necessary temporary protective devices. Repair damage resulting from trespass, erosion, washout, settlement, or other causes.

M. Remove fences, signs, barriers, or other temporary protective devices after final acceptance.

N. Remove and replace diseased, distressed, dead, or rejected plants prior to Substantial Completion Date.

O. Replacements shall be plants of same variety and size specified on The Drawings. Furnish and plant as specified herein. Replacements resulting from removal, loss, or damage due to occupancy of project in any part, vandalism, physical damage by animals, vehicles, etc., and losses due to curtailment of water by local authorities will be approved and paid for by Owner.

P. Grassed areas damaged during process of work shall be restored or repaired to condition satisfactory to the Owner. Fill, grade, re-fertilize, replant, or mulch as required to restore to contract requirements.

3.12 FIELD QUALITY CONTROL

A. Field quality control shall be the responsibility of the Contractor in accordance with Section 01452. Field quality control testing and inspection shall be at the discretion of the Contractor as necessary to assure compliance with Contract requirements. Owner T&I specified below shall not be considered a substitute for the Contractor's responsibility to perform similar routine, necessary, and customary testing and inspection of the methods and frequency suitable for the type of work involved.

3.13 OWNER TESTING AND INSPECTION (T&I) AND OBSERVATION

A. The Owner will perform testing and inspection (T & I) as specified in Appendix B (Section 02900).

B. Civil Engineering Consultant Observation: The Owner's Civil Engineering Consultant (CEC) will perform special observations as specified in Appendix B (Section 01456)

3.14 EXTENDED MAINTENANCE

A. Provide landscape maintenance for the site including stormwater conveyance systems as specified below.

B. Contractor shall provide warranty and maintenance for the entire site including existing lawns and landscape materials not installed as part this contract but remaining in place during and after completion of the project.

C. Comply with Federal, State, Local or other governmental requirements relating to the general upkeep and maintenance of Stormwater Conveyance Systems, Natural Areas, Natural and Created Wetlands. Failure to follow these standards will fall to the liability of the Contractor

D. Commence Extended Maintenance immediately after Substantial Completion Date and continue as indicated on the following chart:

E.

EXTENDED MAINTENANCE/WARRANTY CHART

Substantial Completion Date	Extended Maintenance/Warranty Expiration	Duration
December	July	19 months
January	July	18 months
Febuary	July	17 months
March	July	16 months
April	July	15 months
May	July	14 months
June	July	13 months
July	July	12 months
August	August	12 months
September	September	12 months
October	October	12 months
November	November	12 months

SPECIFICATIONS SHEET 5

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NORTH CAROLINA PROFESSIONAL SEAL 20376 ENGINEER AMES A. LOWE
12/18/2024

SUPERCENTER #06958-1000
2800 NC-24 #87
TOWN OF CAMERON, HARNETT COUNTY, NORTH CAROLINA
WALMART REAL ESTATE BUSINESS TRUST
BENTONVILLE, AR

Walmart

DRAWN	GJ
CHECKED	BL
DATE	12-09-2024
SCALE	
JOB No.	24001422
SHEET	C770

FILE NAME: W:\24001422 NW Store #6958-- Cameron, NC\ENGR\Engineering\SA PRODUCTION\24001422 - SPECS.dwg LAST SAVED BY: mhamm 10/7/2024 8:49 AM PLOTTED BY: Shay Stripling 1/7/2025 PAPER WIDTH FULL BLEED E1 (36.00 X 42.00 INCHES) DEVICE: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 PLOT STYLE: ATWELL.CTB

PLANTING SPECIFICATION CONT'D

F. General Landscaping:
Landscape maintenance shall include necessary watering, cultivation, weeding, pruning, wound dressing, disease and insect pest control, protective spraying, straightening plants which lean or sag, adjustments of plants which settle or are planted too low, mowing, replacement of mulch that has been displaced, repairing and reshaping of saucers, and reseeding or replanting of those areas affected. Remove rubbish, waste, tools, and equipment used at end of each workday.

G. Watering
1. Utilize the Owner's irrigation system for watering. Failure of system does not relieve Contractor's responsibility of maintaining desired level of moisture necessary to maintain vigorous, healthy growth.
2. Apply water in quantities sufficient to penetrate soil to minimum depth of 8-inches in shrub beds and 6-inches in turf areas at rate that will prevent saturation of soil.
3. Supplemental on_site water will be furnished by Owner. Contractor shall furnish hose and other watering equipment as required for supplemental watering. If on-site water is not available, immediately notify Wal-Mart Warranty and Landscape Departments by email at teamw@wal-mart.com.

H. Weeding: Maintain all shrub and groundcover areas free from weeds and undesirable grasses.

I. Disease and insect pest control: Inspect plant material at least once each month to locate any disease or insect pest infestations. Upon discovery of infestation, nature or species of infestation shall be identified. Spray or treat as required to keep trees and shrubs free of insects and disease.

J. Supplement rainfall and irrigation system as required to provide adequate water for vigorous and healthy growth of trees.

K. Pruning and Repair: Prune as required to remove dead or injured branches, to compensate for loss of roots as result of transplanting operations, and to maintain safety in traveled areas. Pruning shall not change the natural habit or attractive, balanced shape of plant. Cuts shall be made at the outside edge of the branch collar.

L. Turf Maintenance: Maintain an establish lawn by watering, fertilizing, weeding, mowing, trimming, edging, replanting and operations required to maintain full turf coverage. Roll, re-grade, re-mulch, and replant bare or eroded areas greater 1 square foot to produce a uniformly smooth lawn. Provide materials and installation techniques the same as those used in the original installation.
1. Mowing:
a. Mow turf grass areas at regular intervals to keep turf height from exceeding 3-inches. Maintain turf grass height at 2-1/2 to 3-1/2 inches at subsequent cuttings depending on time of year. Remove no more than 1/3 of grass leaf at any cutting. Mow turf grass at intervals of not more than 10 days during growing season. Mow in such manner as to prevent clippings from blowing onto paved areas and sidewalks. Cleanup after mowing shall include sweeping or blowing to clear mowing debris.
b. Mow native grass areas no more than 3 times per year to a height of no less than 4 inches.
2. Edging: Mechanically edge turf areas adjacent to sidewalks, curbs and other paved surfaces with a blade type edger. Perform edging with each mowing interval.
3. Trimming: Trim grass around valve boxes, poles and other structures with string type trimmers. Do not trim grass around tree trunks with mechanical trimmer. Remove grass adjacent to tree trunk by methods that will not cause damage to trees.
4. Turf Fertilization: Apply balanced commercial grade fertilizer minimum 4 times annually. Adjust type, frequency, and quantity of fertilizer to provide lush and healthy turf at all times. Spilled or excess fertilizer shall be swept and properly disposed. Flushing into storm sewer is prohibited.
5. Turf Weed Control: Develop and maintain a broadleaf weed and foreign grass control program consisting of both post and pre-emergent chemical control. Maintain turf in a weed-free condition.
6. Maintenance on Saturated Soils: Contractor is responsible for repairs of any damage caused by machine maintenance of landscaping materials on sites where soils are in a saturated condition. The areas are defined as follows:
a. Swales
b. Ditches
c. Channels
d. Turf vegetation within the sloped bank perimeter and bottom of dry and wet detention basins.
7. Determine applicable environmental laws and regulations regarding the use of chemicals adjacent to these areas and complying with all such applicable laws and regulations. Contractor shall not apply any chemicals directly or indirectly into stormwater conveyance or collection areas.
8. Comply with all Federal, state, local or other governmental requirements relating to the general upkeep of these areas. Failure to follow these standards will fall to the liability of the Contractor.

M. Clean up: During course of maintenance, excess and waste materials shall be continuously and promptly removed at end of each workday.

N. Maintenance report and schedule of activities: Utilizing the online Evoco Quickbase Landscape tracking application to provide monthly schedules and reports to Owner detailing previous and subsequent planned maintenance activities. Use the report form located at the end of this section. Include dated digital photographs in PDF format with each monthly report showing current and full clear views of entire landscaped and turf areas. Upload maintenance report and photos to the Quickbase Landscape tracking application each month.

O. General Irrigation:
1. Contractor shall maintain the irrigation system in good operating condition and coordinate the operation of the system with the store manager through monthly inspections of system components and make repairs or replacement of parts as necessary. This includes checking and verifying operation in each zone including but limited to the following: head alignment, rain sensors, controller, cleaning and replacing filters, observe drip emitters and tubing for problems, calibrate on-site weather station, and leak detection.
2. Optimize water usage and water conservation by adjusting programming to allow for weather changes and growth seasons. Irrigation shall be conducted between 2:00 a.m. and 6:00 a.m. unless requested by Owner. Immediately notify Wal-Mart Warranty and Landscape departments by email at teamw@wal-mart.com and landscape@wal-mart.com if normal irrigation programming is discontinued or disrupted by store employees.
3. In the event of irrigation system failure, provide manual watering to keep the plant material in a vigorous, healthy condition until system is restored.
4. Comply with water rationing ordinances mandated by the jurisdictional authorities. Immediately notify Wal-Mart Warranty and Landscape Departments by email at teamw@wal-mart.com and landscape@wal-mart.com when rationing ordinances are implemented.

P. Winterization:
1. When cold weather approaches and chance for freezing conditions exist, the irrigation system shall be drained after each use.
2. Winterization procedure shall include the following:
a. Shut water off at main gate valve
b. Open manual drain valves
c. Blow out each section twice with compressed air
d. Set controller to cycle through each section minimum time available, once each day through winter months.
e. If backflow preventer is installed with unions, remove and store out of weather.

Q. Spring Start-up: Spring start-up procedure shall include the following:
1. Reinstall backflow prevention device.
2. Close manual drain valves.
3. Slowly turn water on.
4. Check for leaks and proper alignment of heads.
5. Check drip line and emitters for damage.
6. Repair and adjust system as required for proper operation.

R. No-Fault Repair and Correction: No fault repair and correction work shall consist of work to correct faults or repair damage existing through no fault of the Contractor, but which is necessary for the continued proper maintenance and operation of the landscape system including correction of sprinkler system, on-site utilities, equipment, landscape plants or materials damage, or other corrections necessary for the duration of the Extended Maintenance/Warranty Period specified above. No fault repair and correction shall not include work as otherwise defined within the scope of Extended Maintenance. The Contractor shall perform such necessary work and shall bear costs up to an amount of $300 per month. This amount, multiplied by number of months of anticipated warranty period, shall be included in the bid price. When similar necessary repair work in excess of $300 per month occurs, the Contractor shall Immediately notify Wal-Mart Warranty and Landscape departments by email at teamw@wal-mart.com and landscape@wal-mart.com and perform such excess work only upon their direction. Payment for work directed and performed exceeding $300 per month will be made to the Contractor by Wal-Mart.

END OF SECTION

SECTION 02812 (32 8400) - SITE IRRIGATION SYSTEM

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes
1. Underground, automatically controlled lawn and shrub bed irrigation system including electrical connections, water main connections, and accessories.

B. Related Requirements
1. Appendix A - Products and Work By Owner or Separate Contractor
a. General procedures related to Owner furnished products and transport, handle, store and protect products.(Formerly included in Section 01640)
b. Manufacturers, suppliers, and vendor contacts and product names and numbers related to Owner furnished products. (Formerly included in Section 01645)
2. Section 02300 - Earthwork. Trenching, backfill, and compaction for utilities.
3. Section 02510 - Water Distribution Systems.
4. Section 02900 - Planting. Extended Maintenance Service for Site Irrigation System.
5. Section 02370 - Erosion Control

1.2 REFERENCES

A. ASTM International (ASTM)
1. ASTM D2239 - Polyethylene (PE) Plastic Pipe (SIDR-PR) Based on Controlled Inside Diameter.
2. ASTM D2241 - Poly (Vinyl Chloride) (PVC) Pressure-Rated Pipe (SDR-Series).
3. ASTM D2564 - Solvent Cement for poly (Vinyl Chloride) (PVC) Plastic Pipe and Fittings.
4. ASTM D2609 - Plastic Insert Fittings for Polyethylene (PE) Plastic Pipe.
5. ASTM D2855 - Making Solvent-Cemented Joints with Poly (Vinyl Chloride) (PVC) Pipe and Fittings.

B. National Fire Protection Agency (NFPA)
1. NFPA 70 - National Electrical Code (NEC).

C. American Society of Safety Engineers
1. ASSE 1013 - Performance Requirements for Reduced Pressure Principle Backflow Preventers and Reduced Pressure Fire Protection Principle Backflow Preventers.
2. ASSE 1015 - Performance Requirements for Double Check Backflow Prevention Assemblies and Double Check Fire Protection Backflow Prevention Assemblies.

1.3 SUBMITTALS

A. Submittal process: Submit in accordance Section 01330 - Submittal Procedures. Submit required submittals within 30 days after contract award. Submittals shall be available at all times to the Wal-Mart Construction Manager.

B. Quality Assurance Submittals:
1. Irrigation Contractor Qualifications: Provide minimum of 3 references and list of similar projects with owner's names, addresses, and telephone numbers.

C. Test Reports

D. Closeout Submittals:
1. As-Built Drawings: Furnish two sets, noting exact locations of elements and changes to Construction Drawings.
2. Operation Manual: Furnish two copies, bound in 1 inch diameter three ring binders, indexed and tabbed for easy reference, and labeled on spine and cover. Manual shall include following:
a. Approved submittals as specified herein.
b. Installation instructions including mounting details for control valves.
c. Operating Instructions:
1) Winterization procedures.
2) Recommended operation sequence, frequency, and length of operation cycle, as per relationship to estimated absorption rate, evaporation rate, and anticipated flow.
d. Maintenance Instructions:
1) Manufacturers' product data, installation, and maintenance instructions.
2) Copies of completed warranty information. Contractor to complete and mail necessary warranty registration information to manufacturer keeping copies for Owner.
3. Controller Chart: Prepare color coded chart reduced in size, mounted on the inside of the controller cabinet, containing same plan information as as-built drawings, and laminated in plastic on both sides, with following specific information:
a. Note routing of main line, control wires, and controller location.
b. Identify valves as to size, station number shown on controller, and type of irrigation head (e.g. micro spray head, rotary head) for each valve.
c. Delineate each station's limits of coverage by color-coding, with each station having different color showing its zone with zone number designation.
d. Size, type, and location of water source.
4. Meetings and Inspections Log.
5. Certification of Conformance: Provide certificate of satisfactory performance of irrigation system installation signed by the Contractor and Landscape Architect or irrigation designer for attachment to CEC Conformance Letter included at the end of Section 01456.

1.4 QUALITY ASSURANCE

A. Contractor Qualifications: Minimum of 3 consecutive years' experience in area of project and having installed other jobs of similar size and scope including drip irrigation and ET Series Controllers.

B. Pre-Work Meeting and Conference Call: Convene a pre-work meeting and conference call at the Project site prior to commencing subgrade preparation for site paving to review conditions of operations, procedures and coordination with related work. Require attendance of parties directly affecting work of this Section including but not limited to Contractor, irrigation contractor, site work contractor, Landscape Architect, or irrigation designer.
1. Discuss conditions of Project site.
2. Review approach and schedule for, but not limited to, the following items:
a. Water source.
b. Mainline routing and installation.
c. Zone installation and site preparation.
d. Material availability.
e. Sleeve installation, installation of curb and paving markings for sleeve locations and coordination with site work contractor.
f. Status of irrigation schedule
g. Potential conflicts between irrigation and other site utilities
h. Required Inspections.

C. Meeting and Inspection Log: Maintain log of required meetings and inspections. Record the date; time; weather conditions; and a brief summary of the discussions, decisions, and agreements reached. Landscape Architect or Irrigation Designer will review and sign log at the conclusion of the meeting. Furnish copy of log to each party attending.

1.5 MEETING AND EVENT NOTIFICATIONS

A. Provide the following notifications to the Owner's Civil Engineering Consultant (CEC) within the time period listed below. CEC will notify Owner, landscape architect or irrigation designer, and other necessary sub consultants:
1. Pre-Work Conference Call: Minimum 14 calendar days prior to meeting date.
2. Static Pressure Test: 14 calendar days prior to inspection date.
3. Mainline Inspection and Hydrostatic Test: 7 calendar days prior to beginning irrigation work.
4. Substantial Completion Inspection: 7 calendar days prior to irrigation substantial completion.
5. Final Inspection: 7 calendar days prior to irrigation final inspection date.
6. Warranty Inspection: 14 calendar days prior to inspection date.

B. Provide notifications by email or other written means to show proof of delivery.

1.6 PROJECT CONDITIONS

A. Visit site and become familiar with nature and location of work, existing conditions, and conditions that will exist during installation.

1.7 WARRANTY

A. Guarantee Site Irrigation System for a period of 12-19 months following the Substantial Completion Date in accordance with the Extended Maintenance/Warranty Chart included Section 02900 and as follows:
1. Defects in material, equipment, and workmanship.
2. Repair of damage to premises resulting from leaks or other defects in material, equipment, and workmanship to satisfaction of Owner.

1.8 EXTENDED MAINTENANCE SERVICE

A. Extended Maintenance for Site Irrigation System is specified in Section 02900.

PART 2 - PRODUCTS

2.1 OWNER FURNISHED PRODUCTS

A. Owner will furnish irrigation products as specified in Appendix A (Section 02812) for installation by Contractor as follows:
1. Automatic Smart Controllers.
2. Rainfall / Freeze Sensor.
3. Flow Sensors.
4. Master Valves.

2.2 MANUFACTURERS

A. Acceptable manufacturers shall include:
1. Hunter Industries, Inc., (800) 733-2823
2. Rain Bird Corporation Commercial Turf Division, (800) 724-6247.
3. The Toro Company - Irrigation Division, (888) 384-9939.
4. Netafim USA, (888) 638-2346.
5. Ametek - Armor, (800) 348-7558.

2.3 PIPE

A. Polyvinyl Chloride (PVC): Pipe over 1 inch diameter shall conform to ASTM D224, SDR 21, and Class 200.

B. Polyvinyl Chloride (PVC): Pipe 1 inch diameter and under shall conform to ASTM D2241, SDR 13.5, and Class 315.

C. Flexible Polyethylene (PE): Pipe shall conform to ASTM D2239, SDR 11.5, PE23, rated at 100 PSI, National Sanitation Foundation (NSF) approved. Subject to approval of Owner, PE shall be used for laterals in areas where ground is subject to freezing for extended periods of time each year.

D. Joints:
1. Pipe sizes 2 1/2 inch or smaller shall have bell and socket joints.
2. Pipe sizes larger than 2 1/2 inch shall have snap connections with rubber gasket joints. Thrust blocking shall be required in accordance with Section 02510.

E. Pipe used for reclaimed water shall be appropriate color and marked as designated for such use.

F. Fittings:
1. Polyvinyl Chloride (PVC) Fittings: Fittings shall conform to ASTM D2241, Schedule 40, and Molded.
2. Flexible Polyethylene (PE) Lateral Line Fittings: Fittings shall conform to ASTM D2609, Type 1 PVC insert fittings designed for used with this type of pipe. Pipe and fittings shall be joined with stainless steel pinch clamps or worm gear clamps, including stainless steel screw.

G. Risers above finished grade shall be black in color or receive 2 coats of black exterior semi-gloss enamel paint if a color other than black.

2.4 ACCESSORIES

A. Sleeves: Sleeves for pipes passing beneath paving shall conform to ASTM D2241, Schedule 40. Minimum diameter of 2 inch or 2 sizes larger than pipe scheduled to pass through them.

B. PVC Solvent Cement: Cement shall conform to ASTM D2564.

C. Swing Joint Connections: Connections between heads and laterals shall be thick wall, flexible, polyethylene pipe, with fittings that have male barbs on one end and either male or female screw ends opposite. Glue fittings and female barb adapters are not allowed.

2.5 RECLAIMED WATER PRODUCTS AND MATERIALS

A. Irrigation products used with reclaimed water shall be the appropriate color and marked as designated for such use.

2.6 CUTOFF OR ISOLATION VALVES

A. 3 inches or Smaller: Provide full port brass ball valves with 600 WOG rating as manufactured by Red-White Valve Corporation, Carson, CA.

B. Larger than 3 inches: Provide cast iron and bronze mechanical joint valves, fusion bonded epoxy coated exterior and interior, Resilient Wedge Valve as manufactured by Clow Valve Co., Oskaloosa, IA.

C. Provide a valve key and cast iron cylindrical valve box with top with each valve.

2.7 QUICK COUPLER VALVES

A. Provide one of following if shown on the plans:
1. Rain Bird model 44NP Valve with model 44K Key.
2. Hunter model HQ-44LRC with model HK-44 Key.
3. Toro model 100-SLVLC 470 Series Valve and 100-SLK Coupler Key.

B. Provide each valve with key having 3/4 inch male top pipe threads for hose connection.

2.8 ELECTRIC CONTROL VALVES

A. Provide one of the following:
1. Hunter ICV Series electric remote control valves and ICZ Drip Zone Control Kit.
2. Rain Bird PEB Series electric remote control valves and XCZ Drip Control Zone Kit.
3. Netafim Control Valve Kit.
4. Toro P220 Series plastic valves and DZK Drip Zone Valve Kit.

B. Provide 3M DBY watertight connectors.

2.9 SPRINKLER HEADS

A. Full or Part Circle Pop-Up Fixed Spray Sprinkler:
1. Acceptable Products:
a. Hunter PRS40 with MP Rotators and check valve (CV) feature.
b. Rain Bird 1800 Series Sprinklers with Rotary Nozzles including PRS and SAM features.
c. Toro 570Z PRX Series with MPR Precision Series Spray Nozzles.

B. Full or Part Circle Pop-up Gear Driven Rotor Sprinkler:
1. Acceptable Products:
a. Rain Bird Rotor, 5000 Series plus MPR rotor nozzle with Seal-A-Matic (SAM) check valve.
b. Toro Super T5P-COM, with check valve or Toro TR-XTP Series with factory installed check valve, trajectory adjustment, and X Flow Device.
c. Hunter PGP and PGJ series pop-up rotors, with check valve.

C. Pressure Compensating Micro-Spray Nozzles:
1. Acceptable Products:
a. Rain Bird Micro Spray.
b. Hunter Micro Spray.
c. Toro Stream Spray and Stream Bubbler Nozzles with PC.

REVISIONS	BY

ATWELL
865.850.4200 www.atwell-group.com
1850 PARKWAY PLACE, SUITE 650
MARIETTA, GA
30067-7004
ATWELL, LLC DBA ATWELL, PLLC COA# P-2380

NORTH CAROLINA PROFESSIONAL SEAL 20376 ENGINEER JAMES A. LOWE
12/18/2024

SUPERCENTER #06958-1000
2800 NC-24 #87
TOWN OF CAMERON, HARNETT COUNTY, NORTH CAROLINA

WALMART REAL ESTATE BUSINESS TRUST
BENTONVILLE, AR

Walmart

DRAWN	GJ
CHECKED	BL
DATE	12-09-2024
SCALE	
JOB No.	24001422
SHEET	C780

FILE NAME: K:\24001422 WM Store #6958- Cameron, NC\DWG\Engineering\LD PRODUCTION\24001422 - SPEC1.dwg LAST SAVED BY: mhamil 12/7/2024 8:44 AM PLOTTED BY: Joey Shipley 1/7/2025 PAPER: ARCH FULL BLEED D: (36.00 X 42.00 INCHES) DEVICE: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 PLOT STYLE: ATWELL.CTB

2.10 LOW VOLUME AND DRIPLINE IRRIGATION

A. Hunter Professional Landscape Dripline with 0.4, 0.6, or 1.0 GPH built-in emitters.

B. Netafim Techline with 0.4, 0.6, or 0.9 GPH dripper.

C. Toro Drip-In PC drip tubing with 0.5 or 1.0 GPH emitter. Use only in groundcover and shrub beds with mulch.

D. Rain Bird XFD (surface installation) or XFS (subsurface installation) drip tubing and components with 0.6 or 0.9 GPH emitter.

2.11 VALVE BOX

A. Valve boxes shall be manufactured by Ametek, Plymouth Products Division, Sheboygan WI., RainBird Corporation or equal by acceptable manufacturer. No irrigation valve box shall be placed in pavement areas unless otherwise shown on the Drawings.
1. When used with single valve, provide Economy Turf Box or Rain Bird model VB-RND with green colored snap fit cover labeled "Valve Box".
2. When used with 2 or more valves, provide Jumbo Box or Rain Bird model VB-STD with 20 inch x 14 inch cover opening with cover labeled "Control Valve".

2.12 MANUAL DRAIN VALVES

A. Manual drain valves shall be provided by acceptable manufacturers specified above.

2.13 CONTROL WIRE

A. Number 14-size minimum copper wire, U. L. approved for underground direct burial.
1. Colored wire shall have same color-coding as shown on controller.
2. Provide single wire from controller to each valve.
3. Provide common neutral from controller to each valve.
4. Provide a minimum of two extra sets of wire, 2 control and 1 neutral, to each end of the main for future use.
a. Loop Systems: Provide two spare control wires in each direction to halfway point of loop.

2.14 BACKFLOW PREVENTOR

A. Comply with requirements and codes of local governing authority regarding backflow prevention.

B. Provide the necessary materials, insulation/draining capabilities, and insulated fiberglass enclosure, dark green in color.

C. Backflow preventers shall be type suitable for use in high hazard cross connection to potable water system as manufactured by one of the following manufacturer's: Watts Regulator Company, Febco, or Wilkins.
1. Reduced pressure backflow preventers shall be ASSE # 1013 and labeled accordingly.
2. Double check valve assembly backflow preventers shall be ASSE # 1015 and labeled accordingly
3. In absence of local codes or requirements, provide double check assembly backflow preventer installed in strict accordance with manufacturer's written instructions.

2.15 METER

A. Meter and meter box shall conform to requirements of local utility company.

2.16 AUTOMATIC CONTROLLER

A. Hunter XC-200i

B. RainBird ESP-4Mi

PART 3 - EXECUTION

3.1 PREPARATION

A. Pressure/Flow Test: Perform calculations according to the Irrigation Association's 3-Step Method. Provide written calculations to the Owner's CEC including the following site information:
1. Static or residual pressure at the POC.
2. Calculation of pressure for "worst case" sprinkler head.
3. Calculation of GPM per zone.

B. Prior to installation, receive approval from General Contractor to proceed with construction.

C. Contractor shall field verify all aboveground and underground utilities prior to start of work.

3.2 EXCAVATION

A. Trenching and Backfilling:
1. Trenching and backfilling shall conform to Section 02300 and 02370.
2. Excavate trench to proper depth as shown or specified.
3. Minimum trench width shall be 3 1/2 inches.
4. Over excavate trenches deeper than required in soils containing rock or other hard material that might damage pipe and backfill to proper depth with selected fine earth or sand.
5. Backfill and hand tamp over excavation prior to installing piping.
6. Keep trenches free of obstructions and debris that would damage pipe.
7. Irrigation piping shall not be installed in same trench as heating duct, electric ducts, storm and sanitary sewer lines, water and gas mains.

B. Do not cut sidewalks, paved areas, or curb and gutter when trenching for piping unless otherwise noted on the Drawings.
1. Provide sleeves as specified in Part 2 above under paving prior to installation of paving.
2. Auger, bore, or tunnel under existing paving without disturbing pavement. Damaged pavement shall be removed and replaced in accordance with Section 02740 or 02751.

3.3 WATER METER

A. Provide water meter box for irrigation system if required or shown on the Drawings.

3.4 PIPING INSTALLATION

A. Minimum cover from top of piping to finished grade shall be provided as follows:
1. Lawn and planting areas:
a. Mains and Control Valves: 18 inches.
b. Laterals: 12 inches.
2. Drives or parking areas: 24 inches.

B. Clearances: Maintain 3 inch minimum horizontal clearance between parallel lines in same trench or vertical clearance between lines crossing at angles.

C. Special Requirements - PVC and PE pipe:
1. Snake pipe in trench at least 1 foot per 100 feet of pipe to allow for thermal expansion.
2. Pipe laterals shall be laid to drain to low point drains located at lowest elevations of each zone.

D. Rest full length of pipe section on bed of trench, excavating recesses to accommodate joints. Do not lay pipe on unstable material or blocking, or when in opinion of Owner conditions are unsuitable.

E. Threaded Plastic Pipe Jointing:
1. Do not use solvent cement on threaded joints.
2. Wrap joints with Teflon tape or use virgin Teflon lubricant.

F. Bell and Socket Plastic Pipe Jointing: Cement joints in accordance with ASTM D2855.

3.5 QUICK COUPLER AND AUTOMATIC LOW POINT DRAIN VALVES

A. Provide quick coupler valves as shown on the drawings to accommodate winterization.

B. Provide automatic low point drain valves on all zones. Provide two valves at lowest point of each zone with each drain installed above a 12 inch by 12 inch by 12 inch deep area of coarse washed gravel.

3.6 SLEEVING

A. Provide sleeves for both piping and control wiring where either passes under paved surfaces.
1. Depths of sleeves shall be same as that required for piping at each location or condition.
2. Extend sleeves 12 inches beyond paving at each end.

Install permanent benchmark at top of curbs for reference to sleeve locations.

3.7 VALVES

A. Do not locate beneath paved surfaces.

B. Install plumb to within 1/16 inch.

C. Locate within valve box with 6 inch deep layer of coarse gravel beneath bottom of valve.

D. Top of quick coupler valves shall be 6 inches to top of valve box. Top of gravel layer shall be 3 inches below top of valve.

E. Master Valve (if required on the Drawings):
1. Locate immediately behind backflow preventer.
2. Valve shall be energized by master valve circuit on automatic controller.

3.8 SPRINKLERS

A. Install plumb to within 1/16 inch with top collar, not nozzle, flush with finish grade.

B. Provide swing joint with each sprinkler except where entire head is raised above grade and/or where rigid riser piping is required.

C. Heads adjacent to paving and curb: Locate between 6 and 12 inches from edge of paving or back of curb to prevent car overhang to conflict with a fully extended sprinkler.

3.9 ELECTRICAL CONNECTIONS AND CONTROL WIRE

A. Conform to the National Electrical Code (NEC) and local electrical codes.

B. Provide electrical connection to system as designated on the Drawings and as specified herein.

C. Wire Placement:
1. Do not run control and power supply wiring in same conduit.
2. Provide continuous runs of wire between controller and valves. Splices shall be made with one of following:
a. Watertight below ground electrical junction boxes.
b. Water-tight connectors, such as utilized for valves, and located within valve box for ease of locating.
c. The location of electrical splices shall be shown on the As-Built drawings.
3. Bury control wire beside pipe in same trench. Bundle and tape together at not more than 10 ft intervals.

D. Expansion Loops: Construct by wrapping wire around 1/2 inch diameter pipe to create coil. A 3 foot section of wire shall be used to create 12 inch coil with 6 foot section being used to create 24 inch coil.
1. Provide 12 inch coils at each wire splice, not including valves, and at each change of wire direction.
2. Provide 24 inch coils at each control valve and where each valve enters conduit for automatic controller.

3.10 BACKFILLING

A. Sand or fine-grained soils shall be used for initial backfill to sufficient depth to prevent damage to pipe from rocks or other debris during compaction of subsequent backfill.

B. Fill trench to within 3 inches of finish grade with excavated soil and compact in accordance with Section 02300.

C. Fill top 3 inches with existing topsoil in planting or turf areas and wheel roll until compaction of backfill is same as surrounding soil.

D. Grade backfilled trench uniform with surrounding grades.

3.11 BACKFLOW PREVENTOR

A. Comply with local codes for installation of backflow preventer. In absence of local codes, install in accordance with manufacturer's written instructions.

3.12 RAINFALL / FREEZE SENSOR

A. Location and installation shall be as shown on the Drawings and per manufacturer's written recommendations.

3.13 FLOW SENSOR

A. Location and installation shall be as shown on the Drawings and per manufacturer's written recommendations.

3.14 MASTER VALVE

A. Location and installation shall be as shown on the Drawings and per manufacturer's written recommendations.
1. Master valve normal operating position shall be open and shall be electronically actuated.

3.15 AUTOMATIC CONTROLLER

A. Location and installation shall be as shown on the Drawings and approved by Owner prior to installation.

B. Install rigid conduits for both power supply and control wiring.
1. Control wire conduit shall extend to 18 inches below grade.
2. Pull spare wires for future valves and extend to area outside paved surfaces.

C. Install electrical grounding for controller in accordance with manufacturer's written instructions.

3.16 FIELD QUALITY CONTROL

A. Irrigation Inspections: Conduct the following inspections during the course of the work in the presence of the Landscape Architect or irrigation designer to verify conformance to specification requirements. Notify CEC for observation of inspection by the Landscape Architect or irrigation designer. Correct noted deficiencies during each inspection prior to proceeding with subsequent work. After each inspection complete Irrigation Inspection Checklist included at the end of this Section signed by all signitors listed thereon.
1. Mainline Inspection: Inspect the installed main line, electronic control valves, wiring prior to backfilling main line.
2. Substantial Completion Inspection: Inspect all completed irrigation work. Landscape Architect or irrigation designer will develop a punch list of deficient or incomplete items and deliver to Contractor within 3 calendar days of inspection date.
3. Final Inspection: Within 30 days of project substantial completion date and subsequent to correction of punch list deficiencies, convene a final inspection of all irrigation work.
4. Warranty Inspections: Convene a warranty inspection 30 calendars days prior to expiration of warranty period specified in Part 3 of Section 02900.

B. If additional landscape architect or irrigation designer site visits for observation of inspection are required beyond those described herein as determined by Wal-Mart to determine correction to non-conforming or incomplete work, the Contractor shall reimburse the Owner the sum of $4000 for each additional visit to cover expenses. Additional site observations will be performed as required until all deviations have been corrected by the Contractor and closed by the CEC.

C. Inspection and Adjustments: Following installation and prior to Substantial Completion Inspection, make final adjustments to site irrigation including but not limited to the following:
1. Flush system completely, with nozzles and screens removed and drip lines ends open to extract debris.
2. Verify sprinkler operation and alignment for direction of throw. Correct as necessary.
3. Check pop-up rotor/rotator nozzling for proper arc of spray with no overthrow onto pavement. Adjust nozzles as necessary for proper throw and matched precipitation rate.
4. Ensure uniform distribution exists.
5. Ensure proper irrigation head operational after landscaping and/or sod installation.

D. Main Line Inspection and Hydrostatic Tests:
1. Owner's Landscape Architect or Irrigation Designer will observe testing.
2. Center load piping with small amount of backfill to prevent arching or slipping under pressure.
3. Install risers and caps on mainline and sub-main lines. Apply continuous and static water pressure of 75 psi for a minimum of 3 hours when welded plastic joints have cured at least 3 hours.
4. Allowable Leakage:
a. Utilize the following formula to calculate the allowable leakage for O-ring gasket pipe.

$$L=\frac{SD(P)^{0.5}}{133{,}200}$$

In which: L=Allowable leakage in gallons per hour
S=Length of pipe tested in feet
D=Pipe diameter in inches
P=Average test pressure in PSI gauge

b. No allowable leakage shall be acceptable with solvent based mainline system.
5. Repair leaks and retest.

E. Automatic Controller
1. Controller Activation: Activate controller manufacturer's subscription service in accordance with the manufacturer's instructions.
2. Documentation: Complete the Site Profile Worksheet included with controller. Submit to Owner's Landscape Consultant (SC&A) by email to Controllers@sca-nr.com. Call to confirm receipt of email by calling (615) 469-0943.
3. Testing: Upon completion of irrigation system installation, perform a flow test with the controller in "Flow" mode in accordance with the Owner's Manual.
4. Notification: Upon final inspection and again after warranty inspection, contact SC&A, Owner's Landscape Consultant, by calling (615) 469-0943 to verify controller operation.

F. Prepare inspection log in accordance with Paragraph Quality Assurance in Part 1.

3.17 CLOSEOUT ACTIVITIES.

A. Demonstration: Following final adjustment, operate entire irrigation installation to demonstrate complete and successful operation of equipment.

B. Training: Arrange and attend an onsite training of the controller system to be presented by the controller manufacturer's representative. Contact controller manufacturer to coordinate training time and date.

END OF SECTION

SPECIFICATIONS SHEET 7

REVISIONS	BY

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ATWELL, LLC DBA ATWELL, PLLC COA# P-2380

NORTH CAROLINA PROFESSIONAL SEAL 20376 ENGINEER JAMES A. LOWE

12/18/2024

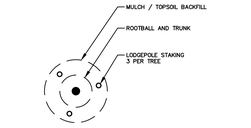
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WALMART REAL ESTATE BUSINESS TRUST
BENTONVILLE, AR

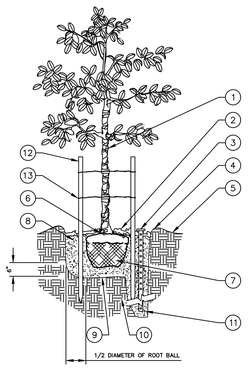
Walmart

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PLAN



SECTION

NOTES:

A. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER

B. REMOVE BURLAP, WIRE AND STRAPS (ANYTHING THAT COULD GIRDLE TREE OR RESTRICT ROOT GROWTH) ON UPPER 1/3 OF ROOTBALL.

C. SEE LANDSCAPE NOTES FOR THE TYPE OF MULCH MATERIAL TO USE.

D. PRUNE TREE AS DIRECTED BY LANDSCAPE ARCHITECT.

E. BRANCHING HEIGHT TO A.A.N. STANDARDS.

F. INSTALL STAND PIPE AND GRAVEL AT BASE WITH SPECIMEN (24" BOX AND LARGER) TREE ONLY.

1. TREE WRAP – SET TRUNK PLUMB / CENTER IN PIT
2. 4" MINIMUM OF HARDWOOD BARK MULCH COMPACTED OR AS SPECIFIED.
3. 4" ABS FILTER FABRIC WRAPPED PERFORATED STAND PIPE WITH REMOVABLE PVC CAP.
4. 3" HIGH SOIL BERM TO HOLD WATER.
5. FINISHED GRADE (SEE GRADING PLAN)
6. TOP ROOT BALL MIN. 1" ABOVE FINISHED GRADE
7. B & B OR CONTAINERIZED (SEE SPECIFICATIONS FOR ROOT BALL REQUIREMENTS).
8. PREPARED PLANTING SOIL AS SPECIFIED. REMOVE ROCKS 4" AND LARGER
9. ROOT BALLS GREATER THAN 24" DIAMETER SHALL BE PLACED ON MOUND OF UNDISTURBED SOIL TO PREVENT SETTLING. ROOT BALLS SMALLER THAN 24" IN DIA. MAY SIT ON COMPACTED EARTH.
10. SET ROOT BALL IN UNDISTURBED NATIVE SOIL.
11. 3/4" GRAVE, DEPTH OF PIPE
12. 2" DIA. LODGE POLE PINE STAKE, 3 EACH 10' MIN., 12' LONG FOR 24" BOX, 14' FOR 36" BOX. SET ONE STAKE PERPENDICULAR TO PREVAILING WIND. CUT STAKES 6" BELOW CANOPY.
13. "CLINCH TIE" BY U.L.T. OR EQUAL

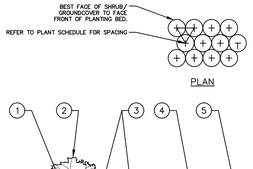
CANOPY TREE PLANTING

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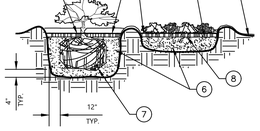
NOTE TO LA:

ASSURE PERCOLATION OF ALL PLANTING PITS.

09/21/16



PLAN



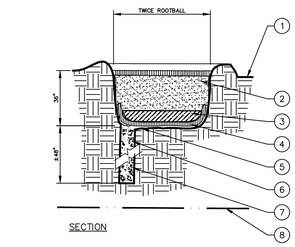
SECTION

1. TOP OF SHRUB ROOTBALLS TO BE PLANTED 1" – 2" HIGH WITH SOIL MOUNDING UP TO THE TOP OF ROOTBALL.
2. WHEN USED IN MASSES– PRUNE ALL SHRUBS TO ACHIEVE A UNIFORM MASS/HEIGHT.
3. 4" MINIMUM OF HARDWOOD MULCH COMPACTED OR AS SPECIFIED.
4. EXCAVATE ENTIRE BED SPECIFIED FOR GROUNDCOVER BED.
5. 4" MINIMUM OF TOPSOIL TO BRING TO FINISHED GRADE (SEE GRADING PLAN).
6. PREPARED PLANTING SOIL AS SPECIFIED. NOTE: WHEN GROUND– COVERS AND SHRUBS USED IN MASSES ENTIRE BED TO BE AMENDED WITH PLANTING SOIL MIX AS SPECIFIED IN THE PLANTING SPECIFICATION.
7. SCARIFY ROOTBALL SIDES AND BOTTOM.
8. WEED BLOCK PLACED BEFORE MULCH ON ENTIRE SHRUB OR GROUNDCOVER BED.

SHRUB/GROUNDCOVER PLANTING

N.T.S.

09/21/16



SECTION

1. FINISH GRADE
2. BACKFILL WITH PREPARED PLANTING SOIL MIX AS SPECIFIED.
3. 12" ± CLEAN SAND, COMPACTED ADJUST LAYER THICKNESS SO TOP OF ROOTBALL IS AT EAST 1" ABOVE FINISHED GRADE.
4. FILTER CLOTH
5. SLOPE BOTTOM TO DRAIN
6. 18" ± AUGERED HOLE PENETRATE THROUGH OCCLUDING LAYER TO WATER TABLE OR TO A DEPTH OF 7' TO ASSURE PROPER PERCOLATION.
7. BACKFILL WITH 1/2" – 3/4"
8. WATER TABLE FOR A PARKING ISLAND PLANTING SITUATION, CONTRACTOR TO BACKFILL ENTIRE LENGTH OF PLANTING AREA TO WITHIN 6" OF BACK OF CURB OR EDGE OF PAVEMENT.

POOR DRAINAGE CONDITION

N.T.S.

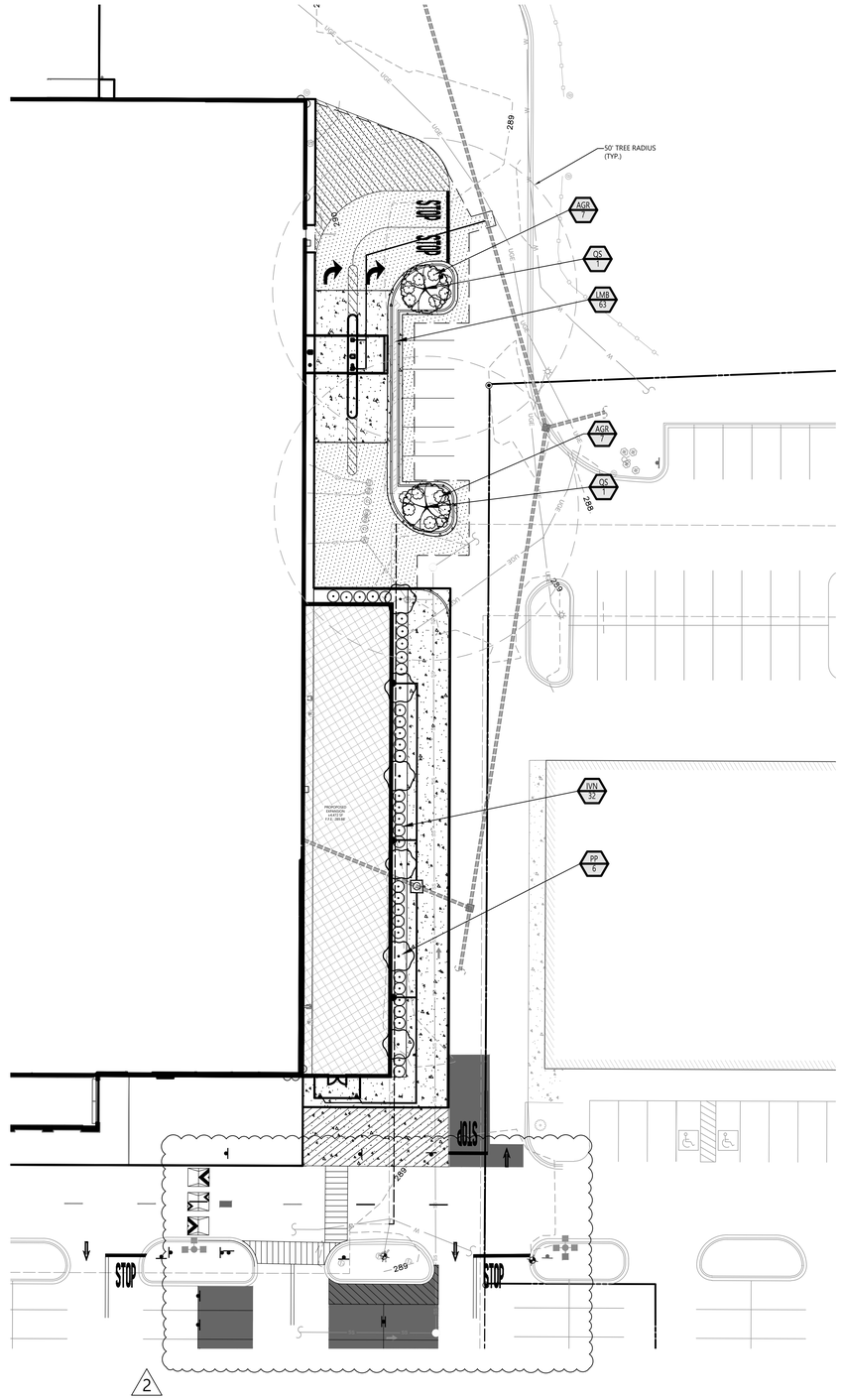
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LANDSCAPE REQUIREMENTS SUMMARY

ITEM	REQUIREMENT	QTY. REQUIRED	QTY. PROVIDED	FORMULA
PARKING LOT TREES	EVERY PARKING SPACE WITHIN 50' OF A TREE TRUNK	2 TREES	2 TREES (SEE PLAN)	N/A
LANDSCAPE BETWEEN BUILDING AND PARKING TYPE 'C' BUFFER REQUIREMENT	MIN. 5' LANDSCAPE STRIP, 50% OF LENGTH OF BUILDING TYPE 'C' = 1 TREE EVERY 30', 5 SHRUBS PER REQUIRED TREE.	174 LF OF 5' LANDSCAPE STRIP 6 TREES, 30 SHRUBS	180 LF LANDSCAPE STRIP 6 TREES, 32 SHRUBS,	348 LF BUILDING X 0.5 = 174 LF MIN LANDSCAPE STRIP 174 LF/ 30LF = 5.8 = 6 TREES

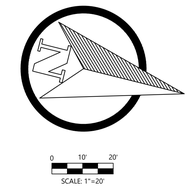
PLANT SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	SPACING	MT HEIGHT	REMARKS
TREES							
	PP	6	PARROTIA PERSICA 'JL COLUMNAR' / PERSIAN SPIRE™ PARROTIA	2" CAL.	10' O.C.	25-40 FT	SINGLE STRAIGHT STEM
	QS	2	QUERCUS SHUMARDII / SHUMARD OAK	2" CAL. 10 HT.	AS SHOWN	60-80 HT.	FULL, WELL BALANCED CANOPY
SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	SPACING	FIELD3	REMARKS
SHRUBS							
	AGR	14	ABELIA X GRANDIFLORA `ROSE CREEK` / ROSE CREEK ABELIA	3 GAL, 24" HT.	4' O.C.	36 IN	FULL, MATCHED
	IVN	32	ILEX VOMITORIA 'NANA' / DWARF YAUPON HOLLY	3 GAL., 24" HT.	4' O.C.	36 IN	FULL, MATCHED
SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	CONTAINER		REMARKS
GROUND COVERS							
	LMB	63	LIRIOPE MUSCARI `BIG BLUE` / BIG BLUE LILYTURF	4" POT	12" O.C.		FULL POT



LANDSCAPE NOTES:

1. ALL LANDSCAPED AREAS ARE TO RECEIVE A MINIMUM OF 4" OF TOPSOIL. SEE 2900 SPECIFICATION.
2. ALL PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS, AND FREE OF PESTS AND DISEASE.
3. ALL PLANT MATERIAL SHALL BE CONTAINER GROWN OR BALLED AND BUR LAPPED AS INDICATED IN THE PLANT LIST.
4. ALL TREES SHALL HAVE A STRAIGHT TRUNK AND FULL HEAD AND MEET ALL REQUIREMENTS SPECIFIED.
5. ALL MATERIALS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT BEFORE, DURING, AND AFTER INSTALLATION.
6. ALL TREES MUST BE GUYED OR STAKED AS SHOWN IN THE DETAILS.
7. ALL PLANTING AREAS SHALL BE COMPLETELY MULCHED AS SPECIFIED.
8. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK. LOCATIONS OF EXISTING BURIED UTILITY LINES SHOWN ON THE PLANS ARE BASED UPON BEST AVAILABLE INFORMATION AND ARE TO BE CONSIDERED APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR 1) TO VERIFY THE LOCATIONS OF UTILITY LINES AND ADJACENT TO THE WORK AREA 2) TO PROTECT OF ALL UTILITY LINES DURING THE CONSTRUCTION PERIOD 3) TO REPAIR ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE CONSTRUCTION.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS BEFORE PRICING THE WORK.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY SCHEDULE AND PROTECTION BETWEEN DELIVERY AND PLANTING PER SPECIFICATIONS TO MAINTAIN HEALTHY PLANT CONDITIONS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULLY MAINTAINING (INCLUDING BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, FERTILIZING, ETC.) ALL OF THE PLANT MATERIALS AND LAWN FOR THE PERIOD OF TIME SHOWN IN THE 02900 SPEC.
12. ANY PLANT MATERIAL WHICH IS DISEASED, DISTRESSED, DEAD, OR REJECTED (PRIOR TO SUBSTANTIAL COMPLETION) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, AND SIZE AND MEETING ALL PLANT LIST SPECIFICATIONS.
13. THE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR A PERIOD DEFINED IN THE 02900 SPEC. THE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS DURING THE NORMAL PLANTING SEASON.
14. AFTER BEING DUG AT THE NURSERY SOURCE, ALL TREES IN LEAF SHALL BE ACCLIMATED FOR TWO (2) WEEKS UNDER A MIST SYSTEM PRIOR TO INSTALLATION.
15. STANDARDS SET FORTH IN "AMERICAN STANDARD FOR NURSERY STOCK" REPRESENT GUIDELINE SPECIFICATIONS ONLY AND SHALL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL.
16. WHERE SHOWN ON THE PLANS AND DETAILS, PLANTING BEDS ARE TO BE COMPLETELY COVERED WITH A HARDWOOD MULCH FROM A LOCAL SOURCE HARVESTED IN A SUSTAINABLE MANNER TO A MINIMUM DEPTH OF FOUR INCHES.
17. REFER TO WALMART SPECIFICATIONS FOR INFORMATION NEEDED FOR IMPLEMENTATION OF PLANTING PLANS.
18. WEED MAT IS REQUIRED IN LANDSCAPED ISLANDS. SEE PLANTING DETAILS.
19. ALL PLANT MATERIAL QUANTITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE COVERAGE OF ALL PLANTING BEDS AT SPACING SHOWN.
20. THIS PLAN IS TO BE IMPLEMENTED COOPERATIVELY WITH SWPPP PLAN, AS NEEDED, TO MAXIMIZE THE EFFECTIVENESS OF THE SWPPP PLAN FOR THIS SITE.
21. THIS PLAN DOES NOT PRESENT ANY TEMPORARY STABILIZATION REQUIRED AS PART OF SWPPP PLAN.



LANDSCAPE PLAN & DETAILS

REVISIONS	BY
03/25/2026 CCD #4	BEN

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ATWELL, LLC DBA ATWELL, PLLC COA# P-2380

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 20128 JAMES A. LOHR
03/25/2026

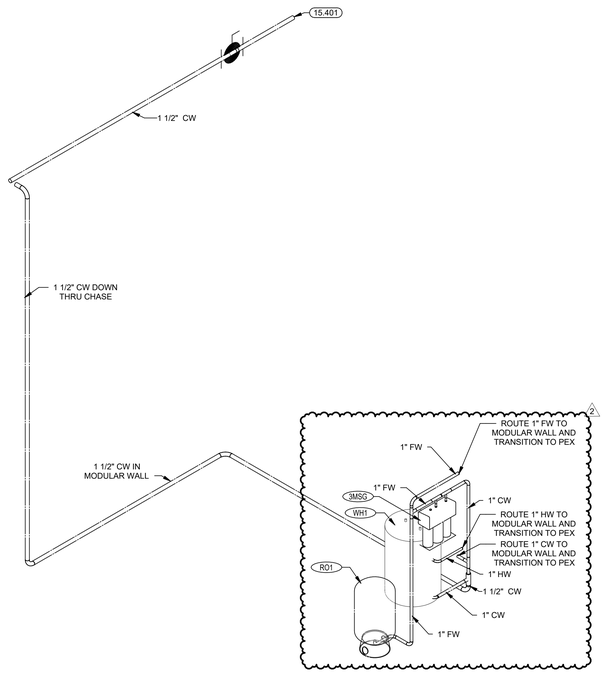
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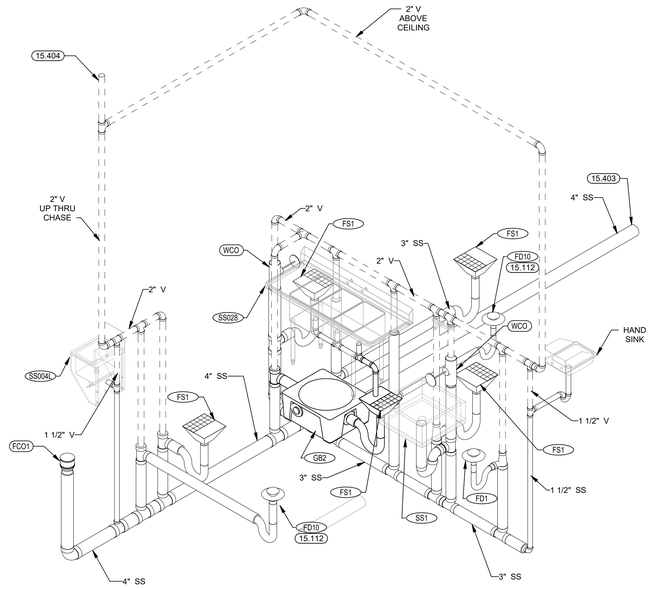
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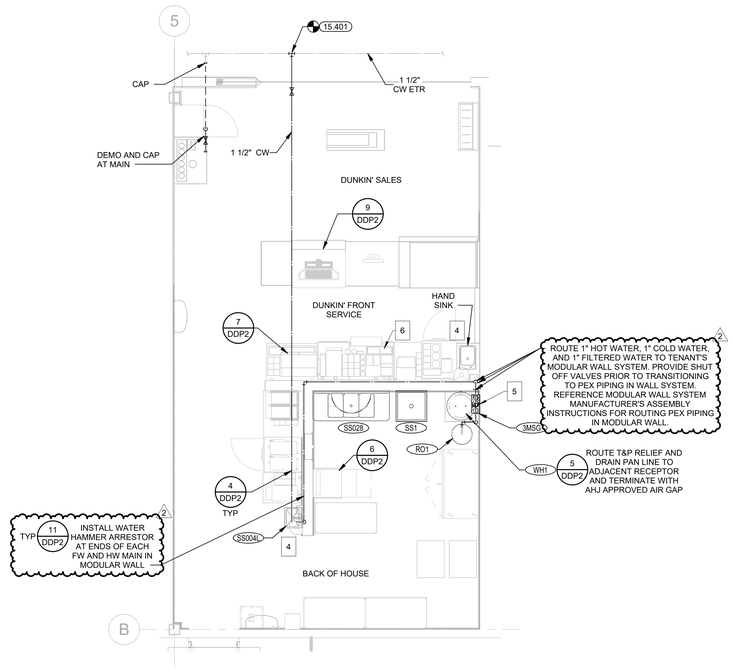
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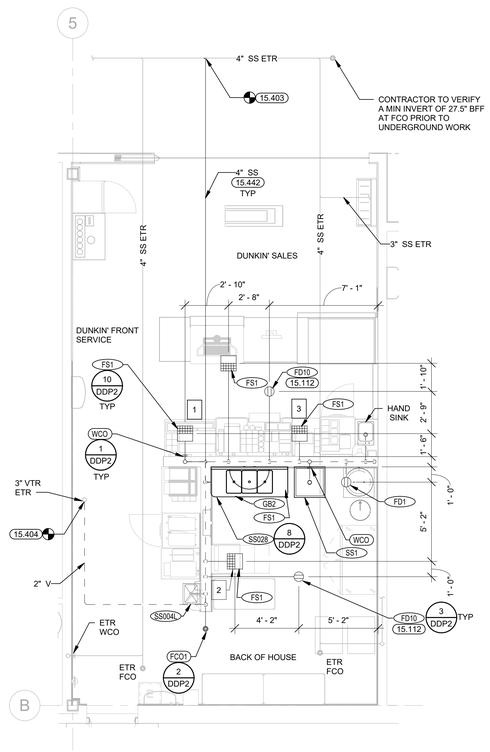
4 WATER RISER
NTS



3 DWV RISER DIAGRAM
NTS



2 WATER PLAN
1/4" = 1'-0"



1 SANITARY PLAN
1/4" = 1'-0"

COFFEE TENANT GENERAL NOTES

A. ALL WORK SHALL COMPLY WITH ALL LOCAL AND STATE CODES AND AUTHORITIES HAVING JURISDICTION.

B. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE ALL REQUIRED INSPECTIONS.

C. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS AND TRADES.

D. THESE DRAWINGS, AS PREPARED, ARE DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS CONSTRUCTION OF THE PROJECT AND THE WORK OF THE TRADES WILL PERMIT. EQUIPMENT LOCATIONS INDICATED ARE APPROXIMATE. COORDINATE EXACT LOCATIONS AND REQUIRED CLEARANCES WITH EQUIPMENT SUPPLIER AND ALL TRADES PRIOR TO INSTALLATION.

E. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL THE EQUIPMENT INDICATED WITHIN THESE DRAWINGS UNLESS OTHERWISE NOTED. VERIFY LOCATION AND DIMENSIONS IN THE FIELD PRIOR TO FABRICATION AND / OR INSTALLATION.

F. ALL ROOF PENETRATIONS SHALL BE AT THE CONTRACTOR'S EXPENSE. COORDINATE WITH OWNER'S ROOFING CONTRACTOR SO AS NOT TO VOID ANY EXISTING ROOF WARRANTIES.

G. THE ENTIRE INSTALLATION SHALL BE GUARANTEED FREE OF DEFECTS AND CONTRACTOR SHALL REPAIR AND / OR REPLACE ANY DEFECTIVE MATERIALS OR EQUIPMENT AT NO COST TO THE OWNER FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY ARCHITECT OR ENGINEER.

H. ALL WORK SHALL BE SUBJECT TO THE ACCEPTANCE AND APPROVAL OF THE ARCHITECT AND OWNER. THE ARCHITECT SHALL BE NOTIFIED OF ANY AND ALL DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. FAILURE OF PROPER NOTIFICATION DOES NOT RELIEVE THE CONTRACTOR. THE CONTRACTOR SHALL CORRECT ANY AND ALL WORK ARISING FROM SUCH FAILURE TO COORDINATE DISCREPANCIES TO THE SATISFACTION OF THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER.

I. ALL KITCHEN, PREP AREA AND SALES AREA EQUIPMENT WILL BE FURNISHED AND INSTALLED. EQUIPMENT WILL BE FURNISHED WITH TRIM, FAUCETS, ESCUTCHEONS, ETC. PLUMBING CONTRACTOR SHALL PROVIDE ALL ROUGH-IN TRAPS AND MAKE ALL FINAL CONNECTIONS (SEE EQUIPMENT SCHEDULE).

J. ALL PIPING TO BE CONCEALED IN HUNG CEILINGS, CHASES AND FURRED SPACES.

K. THE CONTRACTOR SHALL VERIFY DEPTH, SIZE, LOCATION OF ALL EXISTING UTILITIES IN FIELD PRIOR TO STARTING WORK.

L. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL PIPE HANGERS, AND SUPPORTS IN ACCORDANCE WITH THE LOCAL APPLICABLE CODES.

M. THE CONTRACTOR TO PROVIDE TRAP PRIMERS, DEEP SEAL TRAP OR TRAP SEAL ON ALL FLOOR DRAINS AS PER APPLICABLE CODE.

N. ALL PENETRATIONS REQUIRED FOR PLUMBING EQUIPMENT AND PIPING THROUGH ANY WALL SHALL BE PROPERLY SEALED OFF TO MAINTAIN THE INTEGRITY OF THE STRUCTURE.

O. ALL SHUT OFF AND ISOLATION VALVES SHALL BE BALL TYPE. ALL VALVES SERVING TOILETS AND SINKS SHALL BE ANGLE STOP TYPE.

P. PROVIDE AN INDIVIDUAL BALL VALVE AND BACK CHECK VALVE TO EACH INDIVIDUAL PIECE OF EQUIPMENT.

Q. PROVIDE ASSE 1022 APPROVED BACKFLOW PREVENTERS AT ALL APPLIANCES RECEIVING FILTERED WATER AND ALL OTHER EQUIPMENT AS REQUIRED BY CODE.

R. PROVIDE AERATORS ON ALL HAND SINKS.

S. PROVIDE KAY CHEMICAL DISPENSER (SEE NATIONAL ACCOUNTS) AT THREE COMP SINK. MOUNT BOTTLE AND DISPENSER ABOVE SINK AS REQUIRED BY CHEMICAL SUPPLIER..

INSTALLATION NOTES

1. PIPE INDIRECT DRAIN FROM TROUGH AT FRONT OF COFFEE CART TO FLOOR SINK. PROVIDE AIR GAP AS REQUIRED BY CODE.
2. PROVIDE INDIRECT DRAIN FROM ICE CUBER AND ICE BIN TO ADJACENT FLOOR SINK. CONSULT ICE MACHINE INSTRUCTION MANUAL FOR INDIRECT PIPING REQUIREMENTS.
3. PROVIDE INDIRECT DRAIN FROM TOUCH ESPRESSO MACHINE TO ADJACENT FLOOR SINK. PROVIDE AIR GAP AS REQUIRED BY CODE.
4. PROVIDE THERMOSTATIC MIXING VALVE (ASSE 1070) AT ALL HAND SINKS IF NOT ALREADY PROVIDED. SET AT 100° F MAXIMUM.
5. WATER FILTRATION SYSTEM. MOUNT TOP OF SYSTEM 64" AFF. VERIFY ACTUAL LOCATION.
6. PROVIDE ESPRESSO WATER SOFTENER AND PRESSURE REDUCING VALVE FOR ESPRESSO MACHINE.

KEYNOTES

15.112	SET TOP OF DRAIN ELEVATION AT 99.97'. SLOPE FLOOR TO DRAIN PER OPEN FLOOR AREA DRAIN DETAIL.
15.401	CONNECT TO NEAREST DOMESTIC COLD WATER PIPE OF EQUAL OR LARGER SIZE. VERIFY SIZE AND LOCATION AT SITE. PROVIDE SHUT-OFF VALVE IN NEW PIPE AT POINT OF CONNECTION.
15.403	CONNECT TO EXISTING SANITARY PIPE OF EQUAL OR LARGER SIZE. VERIFY SIZE, LOCATION, ELEVATION, AND FLOW DIRECTION AT SITE.
15.404	CONNECT TO EXISTING VENT PIPE OF EQUAL OR LARGER SIZE. VERIFY SIZE AND LOCATION AT SITE.
15.442	TRENCHING AND BACKFILL BY GC, REF ARCH PLANS. COORDINATE WITH GC FOR INSTALLATION SCHEDULE.

SHEET ADDED TO SET 1

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELF WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

Gabriel J. Massa, RA, AIA, NCARB, LEED AP
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EXPIRES 6/30/2026

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2800 NC HWY 24-87
STORE NO: 00998.1000
JOB NUMBER: 245000170 PROTO: 182

ISSUE BLOCK		
1	CCD#1	12/04/25
2	CCD#2	01/21/26

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PROTO CYCLE:	07/26/24
DOCUMENT DATE:	01/08/25

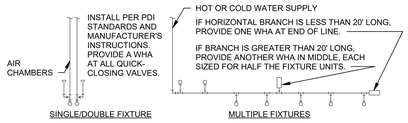
NORTH CAROLINA PROFESSIONAL SEAL 050536 ENGINEER JARROD M. EASTERWOOD

1/20/2026

DUNKIN TENANT PLUMBING PLANS AND RISERS

SHEET
DDP1

JARROD M. EASTERWOOD

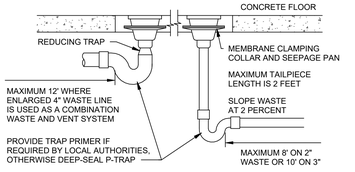


PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD
A	1/2"	1-11
B	3/4"	12-32
C	1"	33-60
D	1-1/4"	61-113
E	1-1/2"	114-154
F	2"	154-330

FIXTURE UNIT TABULATION		
FIXTURE	COLD	HOT
VALVE WATER CLOSET	10	--
TANK WATER CLOSET	5	--
URINAL	5	--
LAVATORY/SINK	1.5	1.5
JANITOR'S SINK	3	3
SHOWER/BATHTUB	2	2

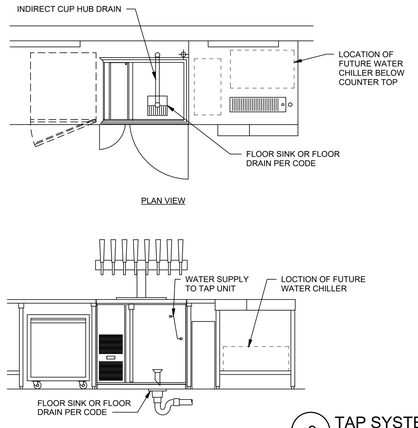
FOR BATTERIES OF FIXTURES, PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI # WH- 201, ASSE # 1010 AND ANSI # A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE. PROVIDE ACCESSIBILITY TO "WHA" WHERE REQUIRED BY LOCAL CODE.

11 WATER HAMMER ARRESTORS
NTS

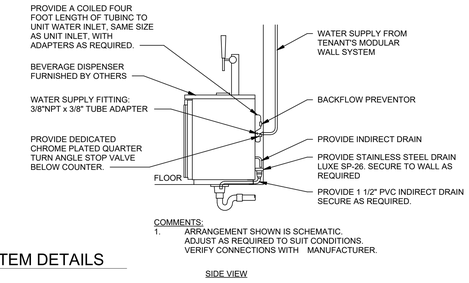


COMMENTS:
1. LOCATE FLOOR SINK WHERE SHOWN ON FLOOR PLAN. IF SITUATION IS FLOOR SLAB ON GRADE, SET DRAIN BODY IN PLACE, PROVIDE BACKFILL, AND POUR AROUND IT. DO NOT RECESS TOP OF FLOOR SINK.
2. OTHER VENTING METHODS MAY BE USED IF APPROVED BY LOCAL CODE AND/OR LOCAL AUTHORITIES.

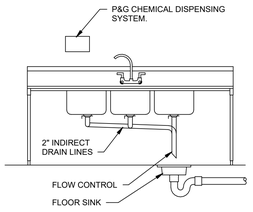
10 FLOOR SINK DETAIL
NTS



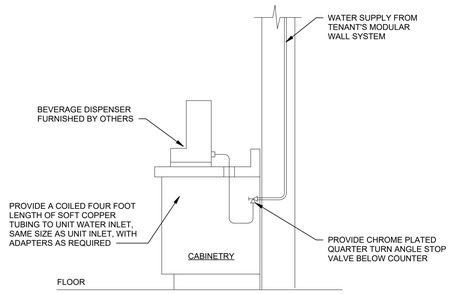
9 TAP SYSTEM DETAILS
NTS



COMMENTS:
1. ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST AS REQUIRED TO SUIT CONDITIONS. VERIFY CONNECTIONS WITH MANUFACTURER.

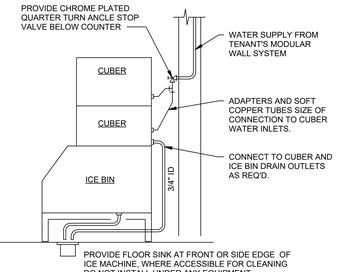


8 3 COMPARTMENT SINK DETAIL
NTS



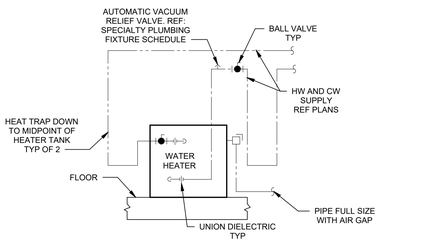
COMMENTS:
1. ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST AS REQUIRED TO SUIT CONDITIONS. VERIFY CONNECTION WITH MANUFACTURER.

7 BEVERAGE WATER PIPING SCHEMATIC
NTS

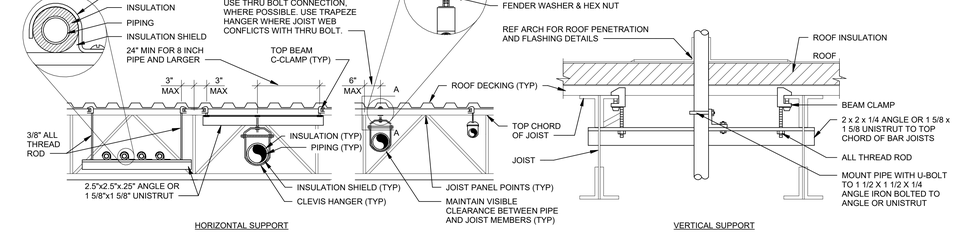


COMMENTS:
1. PROVIDE COLD WATER ROUGH-IN AT FRONT OF ICE MACHINE. ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST AS REQUIRED TO SUIT CONDITIONS. VERIFY CONNECTIONS WITH MANUFACTURER.
2. INSTALL WATER FILTERS PER MANUFACTURER'S INSTRUCTIONS.

6 ICE MACHINE PIPING SCHEMATIC
NTS

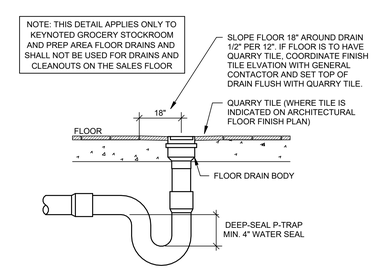


5 WATER HEATER
NTS



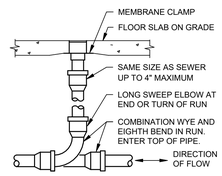
NOTE:
1. UTILIZE FOR ALL PIPING EXCEPT SPRINKLER, ROOF DRAIN, AND REFRIGERATION PIPING.
2. SPACE HANGERS AND SUPPORTS IN ACCORDANCE WITH SPECIFICATIONS.
3. LOCATE HANGERS WITHIN 3 INCHES OF JOIST PANEL POINTS U.N.O.
4. LOCATE SUPPORT AS CLOSE TO JOINT AS POSSIBLE BUT NOT MORE THAN 12" FROM FITTING.
5. DO NOT SUPPORT PIPING FROM BOTTOM CHORD OF BAR JOISTS.
6. DO NOT HANG 2 OR MORE 8 INCH OR LARGER PIPES BETWEEN THE SAME JOIST SPACE.
7. INDIVIDUAL PIPES 3 INCH AND SMALLER NOT REQUIRED TO BE WITHIN 3 INCHES OF PANEL POINT.
8. FOR PIPE RUNNING PARALLEL TO JOISTS, ATTACH TRAPEZE BEAM CLAMPS TO JOISTS ON EACH SIDE OF PIPE TYP.
9. TRAPEZE HANGERS AND ALL THREAD RODS ARE SIZED TO CARRY (MAX) 6 - 3 INCH DIAMETER COPPER PIPES FULL OF WATER (37.62 LBS/FT) OR EQUIVALENT. IF LOAD EXCEEDS MAXIMUM, CONTACT THE EOR FOR PROPER SIZING

4 PIPE SUPPORT
NTS

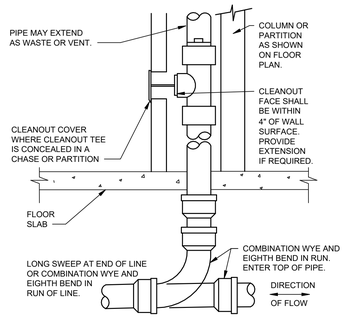


LOCATE FLOOR DRAIN WHERE SHOWN ON DIMENSIONED PLUMBING FLOOR PLAN.

3 OPEN FLOOR AREA DRAIN
NTS



2 FLOOR CLEANOUT
NTS



1 WALL CLEANOUT
NTS

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELF WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

PLUMBING SYMBOLS

CWV	COMBINATION WASTE AND VENT
SS	SANITARY SEWER
GW	GREASE WASTE
OW	OIL WASTE
CD	CONDENSATE DRAIN
PD	PUMP DISCHARGE
ID	INDIRECT DRAIN
ST	STORM SEWER
RD	ROOF DRAIN LINE
ORD	OVERFLOW ROOF DRAIN LINE
	SIPHONIC ROOF DRAIN LINE
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RETURN
IW	IRRIGATION WATER
T	TEPID OR TEMPERED WATER
RO-S / RO-D	REVERSE OSMOSIS WATER (STORE/DISPENSER)
F	FILTERED WATER
NPW	NON-POTABLE WATER
G	NATURAL GAS
A	COMPRESSED AIR
V	PLUMBING VENT
VBF	VENT BELOW FLOOR
VAC	PLUMBING VACUUM
	DEMO PIPE
	UNION
	GAS PRESSURE REGULATOR
	GAS COCK
	ELBOW - TURNED DOWN
	ELBOW - TURNED UP
	TEE - TURNED DOWN
	TEE - TURNED UP
	BALL VALVE
	FLOW CONTROL VALVE
	PLUG VALVE
	CHECK VALVE
	SHUT-OFF VALVE IN VERTICAL LINE
	BACKFLOW PREVENTER
M	WATER METER
WHA	WATER HAMMER ARRESTOR
	THERMOMETER
	T & P RELIEF VALVE
TMV	THERMOSTATIC MIXING VALVE
FD	FLOOR DRAIN
RD	ROOF DRAIN/OVERFLOW ROOF DRAIN
FS	FLOOR SINK
FCO	FLOOR CLEANOUT
YCO	YARD CLEANOUT
FPWH	FREEZE PROOF WALL HYDRANT
HB	HOSE BIBB
WCO	WALL CLEANOUT
	CONNECT TO EXISTING
ETR	EXISTING TO REMAIN
EXIST	EXISTING WITH MODIFICATIONS

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ISSUE BLOCK		
1	CCD#1	12/04/25

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DRAWN BY:	Author
PROTO CYCLE:	07/26/24
DOCUMENT DATE:	01/08/25



12/3/2025

SHEET ADDED TO SET 1

DUNKIN TENANT PLUMBING DETAILS

SHEET: DDP2

JARROD M. EASTERWOOD

SPECIALTY PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	MANUFACTURER	MODEL	FIXTURE DESCRIPTION	NOTES
WPG	WATER PRESSURE GAUGE	AMETEK TRERICE WEISS INSTRUMENTS	656 D83LFSS LF252	2.5 INCH STAINLESS STEEL CASE, ALL WETTED PARTS STAINLESS STEEL, LIQUID FILLED, 1/4 INCH NPT CONNECTOR, 1.6% ACCURACY, 30" HG VAC TO 100 PSI RANGE.	
WHA	WATER HAMMER ARRESTOR	JOSAM PRECISION PLUMBING PRODUCTS WATTS WILKINS JAY R. SMITH SIOUX CHIEF MIFAB	SERIES 75000 STAINLESS STEEL #316 SERIES SS SERIES MODEL 1250XL SERIES HYDROTROLS HYDRA-RESTER MWH	LEAD FREE CONFORM TO PDI WH-201, ANSI A112.26.1M, ASSE 1010.	
VRV	VACUUM RELIEF VALVE	WATTS	LFN36-M1	LEAD FREE BRASS BODY. CSA/ANSI Z21.22	A
RPZ2	REDUCED PRESSURE BACKFLOW PREVENTER (STAINLESS STEEL)	WATTS	SS009M3QT-S	LEAD FREE, STAINLESS STEEL REDUCED PRESSURE ZONE ASSEMBLY. FURNISHED WITH STAINLESS STEEL STRAINER, VANDAL RESISTANT TEST COCKS, AND FULL PORT QUARTER TURN BALL VALVE SHUTOFFS. INSTALL DRAIN LINE WITH AIR GAP ASSEMBLY TO RECEPTOR APPROVED BY AUTHORITY HAVING JURISDICTION. MINIMUM 175 PSI WORKING PRESSURE.	
RPZ1	REDUCED PRESSURE BACKFLOW PREVENTER	WATTS BEECO FEBCO WILKINS	LF009QT OR LF909 FRP-LF LF860 375XL OR 975XL	LEAD FREE, PROVIDE STRAINER, SHUT-OFF VALVES AND TEST COCKS: INSTALL DRAIN LINE WITH AIR GAP ASSEMBLY TO RECEPTOR APPROVED BY AUTHORITY HAVING JURISDICTION. MINIMUM 175 PSI WORKING PRESSURE.	
FCV	FLOW CONTROL VALVE	BELL & GOSSETT FLOW DESIGN	# CB LF "CIRCUIT SETTER PLUS" ICSS050	LEAD FREE NAMEPLATE AND 1/2" VALVE BODY SIZE UNLESS SHOWN OTHERWISE ON PLANS. SET AND BALANCE TO 0.25 GPM OR PROVIDE 0.25 GPM CARTRIDGE UNLESS SHOWN OTHERWISE ON PLANS AND PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.	A
DCV	DOUBLE-CHECK VALVE BACKFLOW PREVENTER (STAINLESS STEEL)	WATTS	SS007QT-S	ASSE 1015, 316 STAINLESS STEEL BODY, QUARTER TURN TEST COCKS, QUARTER TURN, FULL PORT BALL VALVES AND STAINLESS STEEL STRAINER.	A
BWV	BACKWATER VALVE FLAPPER	SIOUX CHIEF	869	PVC BACKWATER VALVE WITH SLEEVE AND LID AND REMOVABLE ACCESS COVER (850). REF PLAN FOR SIZE.	
---	BARRIER-TYPE TRAP SEAL PROTECTION	SURE SEAL JAY R SMITH MIFAB	SS4009 2692 MI-GARD	INLINE FLOOR DRAIN TRAP SEAL. ASSE 1072	
---	CHECK VALVES	RED-WHITE APOLLO CRANE WATTS NIBCO	232 SERIES 61-100 119J 6 T-413	BRASS JACKET WITH PLASTIC VALVE ASSEMBLY	
---	DOUBLE-CHECK VALVE BACKFLOW PREVENTER	WATTS BEECO FEBCO WILKINS	LF007QT OR LF709 FDC-LF LF850 350XL OR 950XLT2	LEAD FREE, INCLUDE TWO INDEPENDENT-ACTING CHECK VALVES, TWO SHUT-OFF VALVES AND REQUIRED MEANS FOR TESTING FOR EACH ASSEMBLY. MINIMUM 175 PSI WORKING PRESSURE.	
---	LOCKABLE SHUT OFF VALVES	RED-WHITE APOLLO CRANE WATTS	5042 SERIES 70LF-100 LF-T-255 LFB-6000 OR LFB-6001	BRASS BALL VALVES WITH PLASTIC JACKETED LEVER TYPE HANDLE.	
---	STRAINER	WATTS APOLLO	LF777SI 59-004-06	CAST BRONZE Y-STRAINER WITH BALL VALVE	
---	TRAP PRIMER (MULTIPLE TRAPS)	PRECISION PLUMBING PRODUCTS MIFAB JOSAM SIOUX CHIEF	PRIME RITE OR OREGON #1 M-500-NPB 88300 SERIES 695	LEAD FREE, PROVIDE ALL BRONZE PRIMER VALVE WITH REMOVABLE OPERATING PARTS, INTEGRAL VACUUM BREAKER, GASKETED ACCESS COVER, AND MULTIPLE TRAP CAPABILITY	
---	TRAP PRIMER (SINGLE TRAP)	PRECISION PLUMBING PRODUCTS SIOUX CHIEF	PRIME-RITE OR OREGON #1 695	LEAD FREE, PROVIDE ALL BRONZE PRIMER VALVE WITH REMOVABLE OPERATING PARTS, INTEGRAL VACUUM BREAKER, AND GASKETED ACCESS COVER.	
---	VALVES	RED-WHITE APOLLO CRANE WATTS NIBCO	5044AB OR 5049AB SERIES 70 LF LF9210 SERIES LFFBV-3C OR LFFBVS-3C FP-600-A-LF	LEAD FREE FULL PORT BRASS BALL VALVE WITH PLASTIC JACKETED LEVER TYPE HANDLE.	

GENERAL INFORMATION:
1. THIS SCHEDULE IS COMPREHENSIVE. ALL MARKS MAY OR MAY NOT BE USED.

NOTES:
A. FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR. REFER TO SPECIFICATIONS.

EQUIVALENT NOMINAL PIPE SIZES			
PLAN SIZE (COPPER)	POLYPROPYLENE HOT WATER	POLYPROPYLENE COLD WATER	PEX
1/2"	1/2"	1/2"	1/2"
3/4"	3/4"	3/4"	1"
1"	1"	1"	1 1/4"
1 1/4"	1 1/2"	1 1/4"	1 1/2"
1 1/2"	2"	1 1/2"	2"
2"	2 1/2"	2"	2 1/2"
2 1/2"	3"	2 1/2"	3"
3"	3 1/2"	3"	N/A
4"	6"	4"	N/A

NOTE: REFER TO SPECIFICATIONS FOR APPROVED MANUFACTURERS.

DUNKIN TENANT PLUMBING FIXTURE SCHEDULE

ALL PRODUCTS ON THIS SCHEDULE ARE FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR. REFER TO SPECIFICATIONS.

MARK	FIXTURE	BRANCH SIZES (MIN) CW	HW	WASTE	VENT	MANUFACTURER	MODEL	DESCRIPTION, TRIM AND ACCESSORIES	NOTES
SS1	SERVICE SINK (TERRAZZO) 24" x 24" x 12"	3/4"	3/4"	3"	2"	STERN-WILLIAMS FIAT ACORN	SB-800 TSB-200 TSH-24-SSC-LB	CHROME PLATED FAUCET WITH INTEGRAL CHECK VALVES, HOSE, BRACKET (MOUNT DIRECTLY ABOVE WALL GUARD), MOP HANGER (60"AFF). FAUCET: CHICAGO 897-CP (DISCARD STANDARD SUPPLY ARMS & CONNECT (2) GCJKCP SUPPLY ARMS USING (2) 897-020JKRCF ADAPTERS), ZURN Z843M1-CS, TAS BRASS B-0665-BSTP W/ ETERNA CARTRIDGES & SPRING CHECKS. HOSE/BRACKET: STERN WILLIAMS T-35, FIAT 832-AA, ACORN KH36. MOP HANGER: STERN WILLIAMS T-40, FIAT 889-CC, ACORN KMH.	A
SS004L	WALL MOUNTED HAND SINK WITH LH SPLASH	1/2"	1/2"	1 1/2"	1 1/4"	WIN-HOLT EQUIPMENT GROUP	100519904		
SS028	3-COMPARTMENT 24X60 WITH 12" DB	3/4"	3/4"	3"	1 1/2"	WIN-HOLT EQUIPMENT GROUP	3N-1218-2D-12	WATER: 12" AFF; WASTE: 12" AFF	

GENERAL INFORMATION (ALL FIXTURES):
1. SUBSTITUTIONS NOT PERMITTED. REF SPECIFICATIONS FOR APPROVED MANUFACTURERS OF THE FOLLOWING TRIM AND ACCESSORIES:
-P-TRAP WITH CLEANOUT PLUG AND SINK CONTINUOUS WASTES: POLISHED CHROME-PLATED TUBULAR BRASS, 17 GAUGE WITH BRASS NUTS AND SLIP INSERTS.
-SS BRAIDED WATER SUPPLY: FLEXIBLE BRAIDED STAINLESS STEEL (SS) OUTER SHEATHING WITH REINFORCED PVC INNER TUBING.
-STOP VALVES: CHROME PLATED BRASS, QUARTER TURN ANGLE STOP VALVES.

NOTES:
A. INSTALL MOP SINK FAUCET AT 32" AFF AND LOCATE TWO MOP HANGER BRACKETS SIDE BY SIDE NEAR MOP SINK.

DUNKIN TENANT FLOOR DRAIN SCHEDULE

ALL PRODUCTS ON THIS SCHEDULE ARE FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR. REFER TO SPECIFICATIONS.

MARK	MANUFACTURER	MODEL	DESCRIPTION
FD1	SIOUX CHIEF JOSAM OATEY	842 VEF 400J 72000	LIGHT DUTY ADJUSTABLE PVC WITH THREADED ADAPTER AND 5" DIAMETER NICKEL BRONZE RING AND FASTENED GRATE
FD10	SIOUX CHIEF KUSEL STAINLESSDRAINS.COM	860-4SS KEW SD12WSCH40	HEAVY DUTY STAINLESS STEEL (SS) WITH SLAB ANCHOR, 8.5" MIN. DIAMETER SS GRATE WITH TWO 1" DIAMETER CENTRAL LIFTING HOLES 3" APART, SCH 40 OUTLET, AND SS SEDIMENT BUCKET WITH HANDLE AND SIDE AND BOTTOM DRAIN HOLES. DRAIN INTERIOR, GRATE AND BUCKET SHALL HAVE SMOOTH BEAD BLASTED FINISH WITH NO VISIBLE INTERNAL WELDS OR SEAMS. ENTIRE DRAIN INTERIOR SHALL BE VISIBLE FOR INSPECTION.
FS1	SIOUX CHIEF ZURN JOSAM	861 FD2370-YS FS-940-80	LIGHT DUTY, ACID RESISTANT, WHITE PVC FLOOR SINK WITH 12" SQUARE WHITE PVC HALF GRATE AND STAINLESS STEEL DEBRIS BUCKET WITH LIFTING HANDLE. REF PLANS FOR LOCATIONS WHERE FULL GRATES ARE SPECIFIED.

DUNKIN TENANT CLEANOUT SCHEDULE

ALL PRODUCTS ON THIS SCHEDULE ARE FURNISHED BY OWNER AND INSTALLED B Y CONTRACTOR. REFER TO SPECIFICATIONS.

MARK	MANUFACTURER	MODEL	DESCRIPTION
FCO1	ZURN SIOUX CHIEF MIFAB JAY R. SMITH JOSAM WATTS OATEY	Z1400 852 C1100 4231 55000 CO-200-RX-4 74000	CAST IRON OR PVC BODY, ROUND EXTRA HEAVY-DUTY CAST OR DUCTILE IRON TOP, POLYPROPYLENE OR ABS PLUG, ADJUSTABLE TO FINISH SURFACE.
WCO	ZURN SIOUX CHIEF MIFAB JAY R. SMITH JOSAM WATTS WADE	Z1470 (Z1469) 873 C1430 4472T 58540 (58600) CO-590-RD 8590 (8480R)	THREADED, COUNTERSUNK BRONZE OR POLYPROPYLENE CLEANOUT PLUG. (PROVIDE DRILLED TAP FOR CENTER SCREW AND STAINLESS STEEL COVER FOR FINISHED AREAS.)

GENERAL INFORMATION (AS APPLICABLE):
1. REFER TO PLANS FOR DRAIN OUTLET SIZE.
2. ASME LOAD CLASSIFICATIONS: LIGHT DUTY <2000 LBS, MEDIUM DUTY 2000 - 4999 LBS, HEAVY DUTY 5000 - 7499 LBS, EXTRA HEAVY DUTY 7500 - 9999 LBS.

DUNKIN TENANT WATER HEATERS / STORAGE TANKS

ALL PRODUCTS ON THIS SCHEDULE ARE FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR. REFER TO SPECIFICATIONS.

MARK	AREA SERVED	MANUFACTURER	MODEL	TANK SIZE (GAL)	HEAT INPUT MBH	HEAT INPUT KW	ELECTRICAL V	ELECTRICAL PH	ELECTRICAL HZ	NOTES
WH1	COFFEE TENANT	A.O. SMITH RHEEM BRADFORD WHITE	PREFERRED DEL-40 COMMERCIAL ELDS40 COMMERCIAL LE240LN3-3	40		6	208	1	60	2

GENERAL INFORMATION (WATER HEATERS):
1. FURNISH WITH INCO-LOY HEATING ELEMENTS FOR ELECTRIC WATER HEATERS.
2. FURNISH WITH ASME TEMPERATURE AND PRESSURE RELIEF VALVE FOR ALL WATER HEATERS AND STORAGE TANKS.
3. FURNISH WITH VACUUM RELIEF VALVES FOR ALL WATER HEATERS AND STORAGE TANKS.
4. 140°F OUTLET TEMPERATURE.

NOTES:
A. INSTALL WATER HEATER ON PLATFORM PROVIDED BY GENERAL CONTRACTOR. REF ARCH DRAWINGS FOR WATER HEATER SUPPORT DETAIL.
B. PROVIDE 4" THICK CONCRETE HOUSEKEEPING PAD.
C. FURNISH WITH EXPANSION TANK ETA.
D. FURNISH WITH EXPANSION TANK ETB.
E. FURNISH WITH EXPANSION TANK ETC.
F. FURNISH WITH NON-SIMULTANEOUS, DUAL-ELEMENT OPERATION. SCHEDULED KW IS FOR INDIVIDUAL ELEMENT.
G. FURNISH WITH SIMULTANEOUS, MULTIPLE ELEMENT OPERATION.
H. RECOVERY RATE: 145 GPH AT 100°F RISE.
I. RECOVERY RATE: 190 GPH AT 100°F RISE.
J. RECOVERY RATE: 230 GPH AT 100°F RISE.
K. FURNISH WITH CONDENSATE NEUTRALIZATION KIT (JJM BOILER WORKS OR EQUAL) PER MANUFACTURER'S RECOMMENDATIONS WHEN REQUIRED BY LOCAL CODE.
L. FURNISH WITH DRAIN PAN.

DUNKIN TENANT GREASE INTERCEPTOR

ALL PRODUCTS ON THIS SCHEDULE ARE FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR. REFER TO SPECIFICATIONS.

MARK	MANUFACTURER	MODEL	DESCRIPTION
GB2	SCHIER PRODUCTS	GB2	FLOW RATE: 35 GPM, GREASE CAPACITY: 100 LBS. COVER: BOLTED GAS/WATER TIGHT POLYPROPYLENE WITH 1,000 LB LOAD RATING WHEN UNIT IS BURIED WITH RISER

GENERAL INFORMATION:
1. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

DUNKIN TENANT WATER FILTRATION SYSTEM

MARK	AREA SERVED	MANUFACTURER	MODEL	DESCRIPTION
3MSG	COFFEE TENANT	3M	HFRO - F810	WATER FILTER
RO1	COFFEE TENANT	3M	5598407	10 GALLON RO STORAGE TANK

GENERAL INFORMATION:
1. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

SHEET ADDED TO SET (1)

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELF WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 050536 JARROD M. EASTERWOOD
1/20/2026

DUNKIN TENANT PLUMBING SCHEDULES

SHEET: DDP3

OCCUPANT LOAD CALCULATIONS

DISTANCE OF TRAVEL - TABLE 1017.2

IBC, SPRINKLERED	250'
NFPA, SPRINKLERED	200'

OCCUPANT LOAD CALCULATIONS - TABLE 1004.5 :

GROUND FLOOR RETAIL SALES:	147,677	SF/	60 =	2,462
OUTDOOR FENCED:	3,764	SF/	60 =	63
TRAINING:	396	SF/	15 =	27
BREAKROOM:	1278	SF/	15 =	86
FOOD TENANT:	575	SF/	15 =	39
FOOD TENANT KITCHEN:	679	SF/	200 =	4
SERVICE DELI & BAKERY:	690	SF/	200 =	4
TENANT SPACES:	2,220	SF/	100 =	23
OFFICE:	3,158	SF/	100 =	32
STOCKROOMS:	27,511	SF/	300 =	92
AUTO SERVICE CENTER:	3,320	SF/	100 =	34
TOTAL OCCUPANT LOAD				2,866

EGRESS WIDTH REQUIRED - TABLE 1005.3.2 :

EGRESS INCHES REQUIRED		0.2	INCHES PER PERSON SERVED
MINIMUM CLEAR WIDTH =	33"	FOR	3'-0" DOOR OPENING
	45"	FOR	4'-0" DOOR OPENING

EGRESS WIDTH REQUIRED (INCHES) EQUALS:
(AREA OCCUPANT LOAD)x(EGRESS WIDTH PER PERSON SERVED)

EGRESS WIDTH CALCULATIONS

SALES, TENANTS, KITCHEN, PHARMACY, AND VISION CENTER:

2,532	OCCUPANTS	X	0.2 =	507	INCHES REQUIRED
12	3'-0" DOORS	X	33 =	396	INCHES PROVIDED
8	4'-0" DOORS	X	45 =	360	INCHES PROVIDED
2	"AIR CURTAINS"	X	184 =	368	INCHES PROVIDED
	TOTAL INCHES PROVIDED		=	1,124	INCHES PROVIDED

STOCKROOM,OFFICE, TRAINING:

151	OCCUPANTS	X	0.2 =	31	INCHES REQUIRED
9	3'-0" DOORS	X	33 =	297	INCHES PROVIDED
1	12'-0" BI-PARTING SLIDER	X	67 =	67	
	TOTAL INCHES PROVIDED		=	364	TOTAL INCHES PROVIDED

BREAKROOM EGRESS:

86	OCCUPANTS	X	0.2 =	18	INCHES REQUIRED
3	3'-0" DOORS	X	33 =	99	INCHES PROVIDED

AUTO SERVICE CENTER:

34	OCCUPANTS	X	0.2 =	7	INCHES REQUIRED
2	3'-0" DOORS	X	33 =	66	INCHES PROVIDED
1	8'-0" SLIDER	X	45 =	45	INCHES PROVIDED
	TOTAL INCHES PROVIDED		=	111	TOTAL INCHES PROVIDED

OUTDOOR FENCED:

63	OCCUPANTS	X	0.2 =	13	INCHES REQUIRED
2	3'-0" DOORS	X	33 =	66	INCHES PROVIDED

TOTAL:

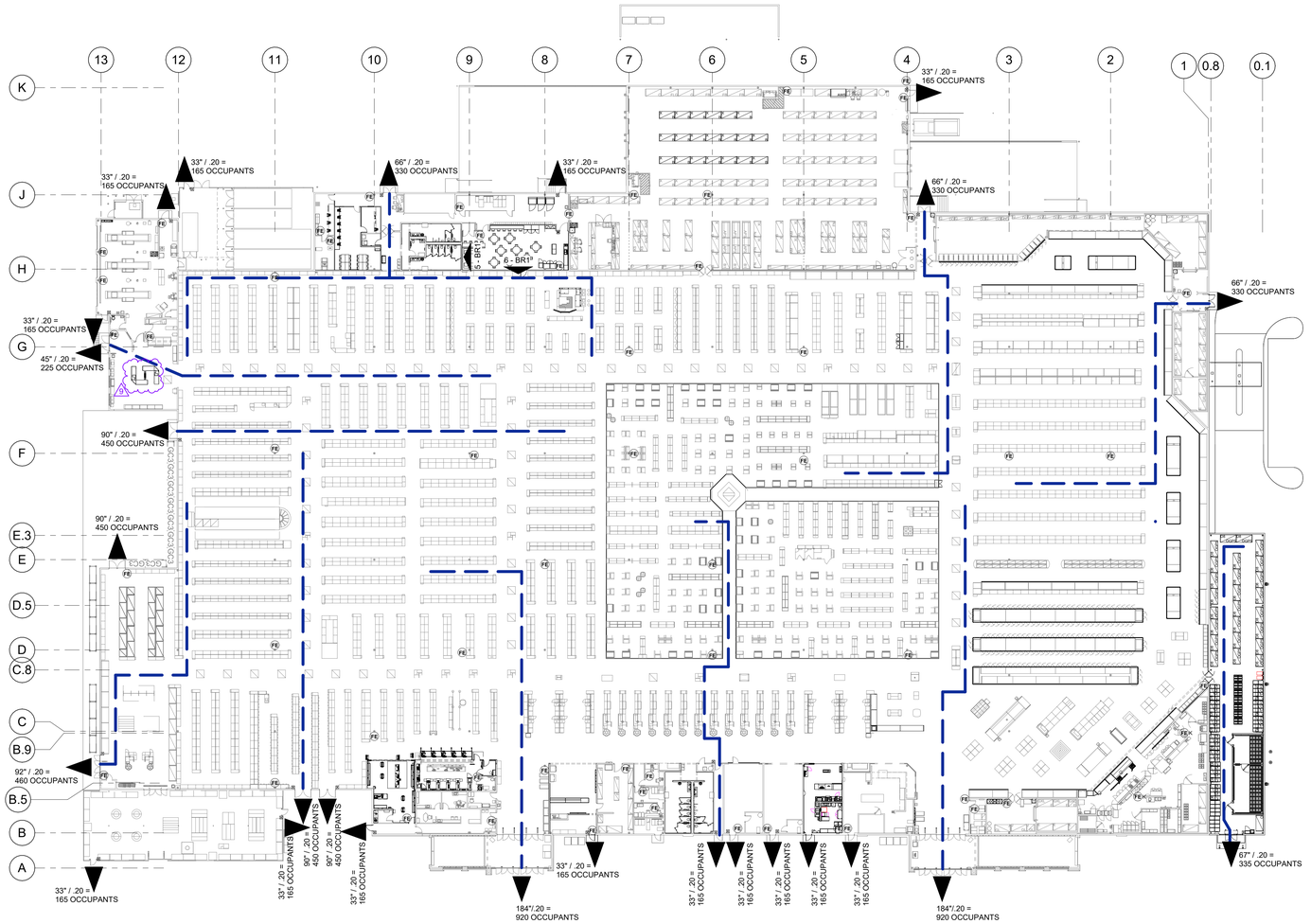
2,866	OCCUPANTS	X	0.2 =	574	INCHES REQUIRED
20	3'-0" DOORS	X	33 =	660	INCHES PROVIDED
8	4'-0" DOORS	X	45 =	360	INCHES PROVIDED
2	"AIR CURTAINS"	X	184 =	368	INCHES PROVIDED
1	8'-0" SLIDER	X	45 =	45	INCHES PROVIDED
1	12'-0" SLIDER	X	92 =	92	INCHES PROVIDED
1	12'-0" BI-PARTING SLIDER	X	67 =	67	
	TOTAL INCHES PROVIDED		=	1,592	TOTAL INCHES PROVIDED

SHEET NOTES

1. MAINTAIN A MIN OF 3'-0" AISLE WIDTH ON SALES FLOOR WHERE MERCHANDISE OR OTHER OBSTRUCTIONS ARE PLACED ON ONE SIDE OF AISLE, AND 3'-6" AISLE WIDTH WHEN SUCH OBSTRUCTIONS ARE PLACED ON BOTH SIDES OF AISLE
2. ALL EXIT SIGNS AND EMERGENCY LIGHTS ARE SHOWN ON SHEET E1, SYMBOL LEGEND ON E3, AND WILL BE SUBJECT TO INSPECTION FROM FIRE MARSHAL HAVING AUTHORITY PRIOR TO FINAL APPROVALS
3. 250' MAX. TRAVEL DISTANCE IS SHOWN AS A DASHED LINE
4. REF N1 FOR TACTILE EXIT SIGNAGE

LEGEND

(FE)	FIRE EXTINGUISHER
(FE)K	K TYPE FIRE EXTINGUISHER (WITHIN 30 FT OF EACH COOKING APPLIANCE EQUIPMENT WITHIN A HOOD SYSTEM)



1 LIFE SAFETY PLAN

1" = 30'-0"

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3/25/2026

LIFE SAFETY PLAN

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