SCOOTER'S COFFEE

130 BRANDYWOOD CT.
CAMERON, NC 28326

NOTICE TO CONTRACTOR
All construction must comply with current NC Building Codes and is subject to field inspection and verification.
Reviewed for Code Compliance
04/23/2025
Harnett COUNTY NORTH CAROLINA

DRAFTING SYMBOLS

DIMENSION LINE — 2" TO FACE OF FRAMING OR CENTERLINE OF STRUCTURE

SECTION — X / AX — SECTION DESIGNATION, SHEET NUMBER

DETAIL — 5 / A2.0 — DETAIL NUMBER, SHEET NUMBER

EXTERIOR ELEVATION — 5 / A2.0 — ELEVATION DESIGNATION, SHEET NUMBER; 1

INTERIOR ELEVATION — 4 / 5 / A2.0 / 2 / 3 — ELEVATION DESIGNATION, SHEET NUMBER

PARTITION TYPE — A

DOOR IDENTIFICATION — 107 DOOR # (E) 107

WINDOW IDENTIFICATION — -

EQUIPMENT IDENTIFICATION — ###

ROOM NAME AND NUMBER — DINING AREA / 101 / 0 S.F. — ROOM NAME, ROOM NUMBER

KEYNOTE REFERENCE — X

ELEVATION MARKER — #'-#" DESCRIPTION

REVISION — 2

FINISH TYPE MARKER — ##-#

COLUMN OR GRID LINE — D / 2

KEY FOR ENLARGED PLAN — 1 / A2.2

EXISTING ABBREVIATION — (E)

RCP HEIGHT MARKER — +8'-0"

PROJECT TEAM

ARCHITECT
FREDERICK J GOGLIA
1950 CRAIG ROAD #300
ST. LOUIS, MO 63146

CONTACT: MEGAN DOW
PHONE: 800- 489-2233
EMAIL: MDOW@ARCV.COM

STRUCTURAL
CARUSO TURLEY SCOTT INC.
1215 W. RIO SALADO PKWY, SUITE #200
TEMPE, AZ 85281

CONTACT: RICHARD DAHLMANN
PHONE: 480-774-1700
EMAIL: RDAHLMANN@CRSAZ.COM

CIVIL
GASKIN + LECRAW OF NC, PLLC
3475 CORPORATE WAY
SUITE A
DULUTH, GA 30096

CONTACT: KYLIE SHARPE
PHONE: 678-546-8100
EMAIL: KSHARPE@GASKINSLECRAW.COM

MEP ENGINEER
ROBERT L QUEATHEM
1950 CRAIG RD.
ST. LOUIS, MO 63146

CONTACT: ANTHONY RICHARDSON
PHONE: 4314-415-2400
EMAIL:
ARICHARDSON@ARCV.COM

SCOOTER'S PRE-DEVELOPMENT:
SCOOTER'S COFFEE
11808 MIRACLE HILLS DRIVE
OMAHA, NE 68154

CONTACT: JULIANNE MCGEE
PHONE: 531-710-5478
EMAIL:
JULIANNE.MCGEE@SCOOTERSCOFFEE.COM

OWNER/FRANCHISE
PROUD TO SERVE LLC
155 FOX HUNT LN,
SOUTHERN PINES, NC 28387
PHONE: 402-541-5857
CONTACT: KEVIN & JENNIFER LEAVITT
EMAIL: PROUDTOSERVELLC@GMAIL.COM

SCOOTER'S CONSTRUCTION MGR:
SCOOTER'S COFFEE
11808 MIRACLE HILLS DRIVE
OMAHA, NE 68154

CONTACT: MARC BOWERS
PHONE: 410-292-6040
EMAIL:
MARC.BOWERS@SCOOTERSCOFFEE.COM

CITY CONTACTS

PLANNING / ZONING
CITY OF CAMERON PLANNING AND ZONING
247 CARTER STREET
CAMERON, NC 28326

CONTACT: JAY SIKES
PHONE: 910-814-6418
EMAIL: JSIKES@HARNETT.ORG

BUILDING DEPARTMENT
HARNETT COUNTY CENTRAL PERMITTING
420 MCKINNEY PARKWAY
LILLINGTON, NC, 27546

CONTACT: DONNA JOHNSON-
PHONE: 910-893-7525 X 2
EMAIL: DJOHNSON@HARNETT.ORG

HEALTH DEPARTMENT
NC DEPT OF HEALTH AND HUMAN SERVICES
5605 SIX FORKS RD.
RALEIGH, NC 27609

CONTACT: MONIQUE MORGAN
PHONE: 919-707-5864
EMAIL: -

FIRE DEPARTMENT
HARNETT COUNTY
FIRE MARSHAL
1005 EDWARDS BROTHERS DR.
LILLINGTON, NC 27546

CONTACT: LESLIE JACKSON
PHONE: 910-893-0740
EMAIL: RSULLIVAN@HARNETT.ORG

WATER PROVIDER
HARNETT REGIONAL WATER
PO BOX 119
700 MCKINNEY PARKWAY
LILLINGTON, NC 2754

CONTACT: KATIE MOORE
PHONE: 910-893-7575 X 6482
EMAIL: KEMOORE@HARNETT.ORG

ELECTRIC PROVIDER
CENTRAL ELECTRIC
128 WILSON RD
SANFORD, NC 27332

CONTACT: -
PHONE:919-774-4900 / 800-446-7752
EMAIL: -

NATIONAL ACCOUNT VENDORS

ON-DEMAND WATER HEATER:
RINNAI AMERICA CORPORATION
103 INTERNATIONAL DRIVE
PEACHTREE CITY, GA 30269
CONTACT: STACY PETERSON
PH: 909.631.8297
EMAIL: speterson@rinnai.us

GREASE INTERCEPTOR:
SHIER PRODUCTS
-
-
CONTACT: ROB PARTEN
PH: 913.951.3345
EMAIL: Rob.parten@shierproducts.com

ROOFING MEMBRANE:
DURO-LAST ROOFING
-
-
CONTACT: MARK SUMAN
PH: 708.633.9928
EMAIL: mark.suman@holcim.com

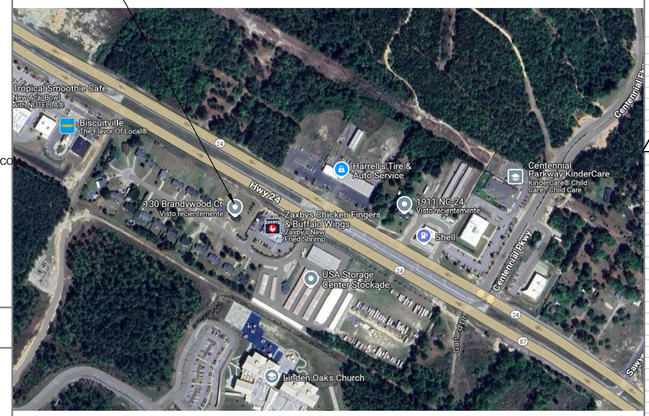
LED LIGHTING:
MORGAN HOPE USA
CONTACT: GAVIN SNOEK
CELL: 904.669.5466
OFFICE: 904.687.0660
www.morganhope.com

AWNINGS:
COOL PLANET AWNINGS
-
INDIANAPOLIS, IN 46229
CONTACT: SHERRIE KIMSEY
PH: 317.927.9000
WEB: coolplanetawnings.com

GENERAL NOTES

A. GENERAL CONTRACTOR SHALL VISIT THE SITE, REVIEW THE DRAWINGS AND BECOME THOROUGHLY FAMILIAR WITH THE SITE CONDITIONS PRIOR TO CONSTRUCTION.
B. GENERAL CONTRACTOR SHALL CONSULT WITH THE CLIENT AND ARCHITECT TO RESOLVE ANY CHANGES, OMISSIONS OR PLAN DISCREPANCIES PRIOR TO CONSTRUCTION.
C. ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH LOCAL, COUNTY, STATE AND FEDERAL CODES AND ORDINANCES.
D. GENERAL CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES.
E. GENERAL CONTRACTOR TO VERIFY ALL DIMENSIONS, INCLUDING CLEARANCES REQUIRED BY OTHER TRADES AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH WORK. ALL DIMENSIONS ARE TO THE FACE OF FRAMING UNLESS NOTED OTHERWISE.
F. GENERAL CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING WALLS, FLOORS, CEILINGS, OR OTHER SURFACES IDENTIFIED TO REMAIN THAT MAY BECOME DAMAGED DURING THE COURSE OF WORK.
G. GENERAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING PERMITS FOR FIRE PROTECTION, FIRE ALARM, OR SPECIALTY SYSTEMS PRIOR TO INSTALLATION OF SUCH SYSTEMS.
H. GENERAL CONTRACTOR SHALL RETAIN ONE SET OF PERMIT PLANS ON-SITE TO DOCUMENT ALL CHANGES MADE DURING CONSTRUCTION. THE RECORD DRAWINGS SHALL BE ISSUED TO THE CLIENT AT PROJECT CLOSE-OUT AS DESCRIBED IN THE GENERAL REQUIREMENTS OF THE PROJECT MANUAL.
I. GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING DELIVERY OF MATERIALS AND INSTALLING SUCH MATERIALS SUPPLIED BY CLIENT OR CLIENT'S VENDOR.
J. RESPONSIBILITY FOR SUPPLY AND DELIVERY OF MATERIALS AND EQUIPMENT IS IDENTIFIED IN THE DRAWING SCHEDULE SHEETS UNDER THE COLUMN LABELED "RESPONSIBILITY".
K. FOR THE PURPOSE OF THE DOCUMENTS, TO "INSTALL" SHALL MEAN TO PROVIDE ALL FASTENERS, MISCELLANEOUS HARDWARE, BLOCKING, ELECTRICAL CONNECTIONS, PLUMBING CONNECTIONS AND OTHER ITEMS REQUIRED FOR A COMPLETE AND OPERATIONAL INSTALLATION UNLESS OTHERWISE NOTED.
L. ALL ITEM SUBSTITUTIONS MUST BE APPROVED BY CLIENT AND ARCHITECT.
M. ONCE ALL PERMITS ARE ISSUED, THE ISSUED FOR CONSTRUCTION (IFC) DRAWING SET SHALL BE PUBLISHED AND SAVED TO THE ONLINE PROJECT MANAGEMENT SITE. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT CONSTRUCTION IS SOLEY BASED OFF OF THIS SET. ALL DRAWINGS REFERENCED FOR CONSTRUCTION SHALL SHOW THE SITE SPECIFIC ADDRESS TO CLEARLY GOVERN THE SCOPE OF WORK.
N. SCOOTER'S SHALL PROVIDE A DESIGN MANUAL TO SUPPLEMENT THIS DRAWING SET AS PART OF THE CONTRACT DOCUMENTS. THE DESIGN MANUAL INCLUDES SPECIFICATIONS, INSTALLATION GUIDES, AND EQUIPMENT CUTSHEETS TO ASSIST WITH BIDDING AND CONSTRUCTION. THE CONTRACTOR SHALL REFERENCE THE INSTRUCTIONS TO BIDDERS INCLUDED IN THIS DESIGN MANUAL FOR CONSTRUCTION MANAGEMENT REQUIREMENTS AND PROCEDURES.
O. GC IS RESPONSIBLE FOR SUBMITTING DOCUMENTS TO FSEC IN COORDINATION WITH SCOOTERS CORPORATE FOR VERIFICATION OF ALL EQUIPMENT SPECS, REQUIREMENTS, CONNECTIONS, UTILITIES, ETC. ANY DISCREPANCIES WILL BE BROUGHT TO THE ATTENTION OF SCOOTERS CORP AND THE ARCHITECT FOR REVIEW AND RESPONSE DURING THE BID PROCESS.
P. ALL PLANS, SECTIONS, ELEVATIONS AND DETAILS SHOWN IN THE ARCHITECTURAL SET ARE BASED OFF OF A SLAB HEIGHT OG 0'-0". CONTRACTOR SHALL REFER TO THE CIVIL DRAWINGS TO DETERMINE ACTUAL BASELINE OF ELEVATION FOR THIS PROJECT.

VICINITY MAP



1 VICINITY MAP
SCALE: N.T.S.

PROJECT DATA

PROJECT INFORMATION

PROJECT NAME:	SCOOTERS COFFEE KIOSK BUILDING
PROJECT DESCRIPTION:	NEW KIOSK BUILDING WITH DRIVE-THRU SERVICE
PROJECT LOCATION:	130 BRANDYWOOD CT. CAMERON, NC 28326
PARCEL NUMBER:	
LEGAL DESCRIPTION:	REFER TO CIVIL SHEETS
JURISDICTION:	HARNETT COUNTY – BUILDING CITY OF CAMERON – PLANNING

GOVERNING CODES
ALL WORK SHALL BE IN COMPLIANCE WITH, BUT NOT LIMITED TO THE REQUIREMENTS OF THE FOLLOWING AND ANY OTHER STATE AND LOCAL CODES HAVING JURISDICTION:

BUILDING:	2018 NC BUILDING CODE
PLUMBING:	2018 NC PLUMBING CODE
MECHANICAL:	2018 NC MECHANICAL CODE
FIRE:	2018 NC FIRE CODE
FUEL / GAS:	2018 NC FUEL GAS CODE
ELECTRICAL:	2020 NC ELECTRICAL CODE
ENERGY:	2018 NC ENERGY CONSERVATION CODE
ACCESSIBILITY:	2009 ANSI A117.1

SITE INFORMATION

SITE AREA:	REFER TO CIVIL SHEETS
ZONING:	COMMERCIAL

PARKING

PARKING PROVIDED:	(8) STANDARD SPACES & (1) ACCESSIBLE SPACE = 9 TOTAL

BUILDING INFORMATION

ZONING BUILDING SETBACKS:	
BUILDING HEIGHT:	19'-0"
BUILDING AREA:	668 SQ.FT.
CONSTRUCTION TYPE:	V-B
SPRINKLERED:	NO

OCCUPANTS

OCCUPANCY CLASSIFICATION:	B - BUSINESS
BARISTA / BACK OF HOUSE:	600 SQ.FT. / 1:200 = 3
RESTROOM:	68 SQ.FT. / 0 = 0
TOTAL OCCUPANTS:	PROPOSED INCREASED OCCUPANT LOAD 6 (SEE LIFE SAFTEY PLAN SHEET G0.3)

EXIT REQUIREMENTS

EXITS REQUIRED:	1 EXIT
EXITS PROVIDED:	1 EXIT

SHEET INDEX

	SHEET TITLE	03/21/25 IFR SET	04/03/25 IFP SET	04/16/25 R1 IFP SET
GENERAL				
G0.1	COVER SHEET	●	●	●
G0.2	RESPONSIBILITY SCHEDULE	●	●	●
G0.3	LIFE SAFETY / OCCUPANCY PLAN	●	●	
G0.4	ACCESSIBILITY DETAILS	●	●	
G0.5	ARCHITECTURAL SPECIFICATIONS	●	●	
G0.6	ARCHITECTURAL SPECIFICATIONS	●	●	
G0.7	ENERGY COMPLIANCE	●	●	●
G0.8	ENERGY COMPLIANCE	●	●	●
G0.9a	APPENDIX B		●	●
G0.9b	APPENDIX B		●	●
ARCHITECTURAL				
A0.1	ARCHITECTURAL SITE PLAN	●	●	
A0.2	TRASH ENCLOSURE ELEVATIONS & DETAILS	●	●	
A0.3	SITE DETAILS	●	●	
A0.4	SIGNAGE DETAILS	●	●	
A1.1	DIMENSION PLAN & FLOOR PLAN	●	●	
A1.2	FINISH PLAN & SCHEDULE	●	●	
A1.3	EQUIPMENT PLAN & SCHEDULE	●	●	
A1.4	REFLECTED CEILING PLAN	●	●	●
A1.5	ROOF PLAN	●	●	●
A2.1	EXTERIOR ELEVATIONS	●	●	●
A2.2	EXTERIOR ELEVATIONS	●	●	●
A3.1	BUILDING SECTIONS	●	●	
A3.2	WALL SECTIONS	●	●	
A3.3	WALL SECTIONS	●	●	
A3.4	WALL DETAILS	●	●	
A3.5	DOOR & WINDOW DETAILS	●	●	
A3.6	EXTERIOR SIDING DETAILS	●	●	
A4.1	INTERIOR ELEVATIONS	●	●	
A4.2	INTERIOR ELEVATIONS	●	●	
A4.3	ENLARGED RESTROOM PLAN & ELEVATIONS	●	●	
A5.1	WINDOW SCHEDULES	●	●	
A5.2	DOOR SCHEDULES	●	●	
A6.1	AUDIO / VIDEO DATA PLAN	●	●	
CIVIL				
C0.0	COVER SHEET	●	●	
	ALTA SURVEY	●	●	
C0.1	GENERAL NOTES	●	●	
C1.0	DEMOLITION PLAN	●	●	
C2.0	ESPC - PHASE 1	●	●	
C2.1	ESPC - PHASE 2	●	●	
C2.2	ESPC - PHASE 3	●	●	
C2.5	EROSION CONTROL DETAILS 1	●	●	
C2.6	EROSION CONTROL DETAILS 2	●	●	
C3.0	SITE PLAN	●	●	
C4.0	GRADING PLAN	●	●	
C5.0	UTILITY PLAN	●	●	
C6.0	SANITARY PROFILE	●	●	
C7.0	CONSTRUCTION DETAILS 1	●	●	
C7.1	CONSTRUCTION DETAILS 2	●	●	
C7.2	CONSTRUCTION DETAILS 3	●	●	
C7.3	CONSTRUCTION DETAILS 4	●	●	
LANDSCAPE				
L1.0	LANDSCAPE PLAN	●	●	
L1.1	LANDSCAPE DETAILS	●	●	
STRUCTURAL				
S1.1	GENERAL STRUCTURAL NOTES	●	●	
S1.2	TYPICAL DETAILS	●	●	
S1.3	TYPICAL DETAILS	●	●	
S2.1	FOUNDATION PLAN / ROOF FRAMING PLAN SCHEDULE	●	●	
S3.1	FOUNDATION AND FRAMING DETAILS	●	●	
MECHANICAL				
M0.1	MECHANICAL SCHEDULES	●	●	
M0.2	MECHANICAL ENERGY COMPLIANCE SCHEDULES	●	●	
M0.3	MECHANICAL ENERGY COMPLIANCE SCHEDULES	●	●	
M1.0	MECHANICAL PLANS	●	●	
M2.0	MECHANICAL DETAILS	●	●	
M3.0	MECHANICAL SPECIFICATIONS	●	●	
PLUMBING				
P0.1	PLUMBING SCHEDULES	●	●	
P1.0	PLUMBING PLANS	●	●	
P2.0	PLUMBING RISER DIAGRAMS	●	●	
P3.0	PLUMBING DETAILS	●	●	
P4.0	PLUMBING SPECIFICATIONS	●	●	
ELECTRICAL				
E0.1	ELECTRICAL SITE PLAN	●	●	
E1.1	ELECTRICAL SPECIFICATIONS & SYMBOLS	●	●	
E1.2	ONE LINE DIAGRAM & PANEL SCHEDULE	●	●	
E1.3	ELECTRICAL DETAILS	●	●	
E1.4	ELECTRICAL ENERGY FORMS	●	●	
E2.1	LIGHTING PLAN & DETAILS	●	●	
E2.2	POWER PLAN & EQUIPMENT SCHEDULE	●	●	
E3.1	EXTERIOR SITE PHOTOMETRIC PLAN	●	●	
E3.2	INTERIOR LIGHTING PHOTOMETRIC PLAN	●	●	

FOR REFERENCE

DEFERRED SUBMITTALS

- SIGNAGE UNDER A SEPARATE SUBMITTAL AND PERMIT
- AWNING UNDER A SEPARATE SUBMITTAL AND PERMIT

REGISTRATION SEAL — NORTH CAROLINA — PROFESSIONAL SEAL 6408 ARCHITECT — FREDERICK J. GOGLIA — 4/16/25

FREDERICK J. GOGLIA
ARCHITECT, NCARB, RDI
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

REV	DATE	DESCRIPTION	BY
1	04/16/25	BD & CLIENT COMMENTS	SW
2			
3			
4			
5			
6			
7			
8			
9			

TITLE:
COVER SHEET

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

KIOSK PROTOTYPE:
4.2 REVERSE PROTOTYPE
JUNE 2024
ISSUE DATE:
03/21/2024
PROJECT NO.
240761
DRAWN BY:
AGG
CHECKED BY:
SW

SHEET NO.
G0.1

RESPONSIBILITY SCHEDULE

GATEGORY / TASK	OWNER FURNISHED	OWNER INSTALLED	CONTRACTOR FURNISHED	CONTRACTOR INSTALLED	SUBMITTAL REQUIRED	REMARKS
1000 GENERAL						
BUILDERS RISK - PROPERTY INSURANCE						C.G TO CONFIRM COVERAGE BY OWNER OR CONTRACTOR
PERFORMANCE & PAYMENT BONDS						NOT APPLICABLE
CONSTRUCTION FACILITIES / TEMP FACILITIES			●	●		
TEMPORARY POWER AND WATER			●	●		
CONSTRUCTION CLEAN UP			●	●		
FINAL CLEAN			●	●		
MATERIAL TESTING			●	●		INITIAL GEOTECH PERFORMED BY OWNER
SURVEY, INITIAL	●	●				INITIAL ALTA / TOPO SURVEY PERFORMED BY OWNER
AS-BUILT SURVEY			●	●		AS REQUESTED BY SEPARATE PROTOCOL
CONSTRUCTION STAKING			●	●		
2000 DEMO			●	●		WHERE REQUIRED BY SITE PLAN
3000 CONCRETE			●	●		INCLUDES PIPE BOLLARDS, MATERIAL AND INSTALLATION
4000 MASONRY						
STONE VENEER			●	●		IF REQUIRED PER PLANS
BRICK VENEER TILE			●	●		IF REQUIRED PER PLANS
MONUMENT SIGN BASE			●	●		
5000 METALS						
STRUCTURAL ELEMENTS & MISC. METALS			●	●		
PATIO RAILING AND HANDRAILS			●	●		IF SHOWN / REQUIRED PER PLANS
6000 WOODS AND PLASTICS						
STRUCTURAL ELEMENTS			●	●		
ALL BLOCKING AND BACKING			●	●		
6201 FINISH CARPENTRY						
BARISTA LINE / STAINLESS STEEL TABLES	●	●				
WALL HUNG R/R VANITY TOP & SUPPORTS			●	●		
7000 THERMAL AND MOISTURE PROTECTION						
ROOFING			●	●		
INSULATION			●	●		
EIFS			●	●		IF SHOWN / REQUIRED PER PLANS
SHEET METAL / METAL COPING			●	●		
CAULKING AND SEALANTS			●	●		
8400 DOORS						
HOLLOW METAL DOORS AND FRAMES			●	●		
DOOR LOCKSET			●	●		
8410 STOREFRONT SYSTEM						
STOREFRONT WINDOW FRAMES & GLASS			●	●		INCLUDING WINDOW TINT
8700 FINISH HARDWARE			●	●		
9000 FINISHES						
FLOOR TILE, FRONT OF HOUSE			●	●		IF SHOWN / REQUIRED PER PLANS
FLOOR TILE, BACK OF HOUSE			●	●		IF SHOWN / REQUIRED PER PLANS
RESTROOM WALL TILE			●	●		IF SHOWN / REQUIRED PER PLANS
WATERPROOFING			●	●		
SCHLUTER STRIPS			●	●		IF SHOWN / REQUIRED PER PLANS
FRP			●	●		
WALL TILE, EXTERIOR AND RESTROOMS			●	●		IF SHOWN / REQUIRED PER PLANS
PAINT			●	●		ALL PAINT
LAY-IN CEILING SYSTEM			●	●		
10800 TOILET ACCESSORIES						
SOAP DISPENSERS	●			●		
PAPER TOWEL DISPENSERS	●			●		
TISSUE HOLDERS			●	●		
GRAB BARS			●	●		
RESTROOM MIRRORS			●	●		
SPECIAL SHELVING	●			●		IF SHOWN / REQUIRED PER PLANS

GATEGORY / TASK	OWNER FURNISHED	OWNER INSTALLED	CONTRACTOR FURNISHED	CONTRACTOR INSTALLED	SUBMITTAL REQUIRED	REMARKS
10900 SPECIALTIES						
EMPLOYEE LOCKERS	●			●		
MOP HOLDER			●	●		
CHEMICAL WIRE RACK	●			●		
FLASHING 'OPEN' SIGN	●			●		
SAFE	●			●		MUST BE BOLTED TO FLOOR
WINDOW TINTING			●	●		
EXTERIOR AWNINGS			●	●		FURNISHED AND INSTALLED BY GC
POINT OF SALE; CONDUIT AND PULL STRINGS			●	●		CONDUIT ALL HOME RUNS TO OFFICE AREA
LOW VOLTAGE CABLINE	●	●				ALL CAT6 CABLES BY OWNER'S VENDOR
LOW VOLTAGE TERMINATION AND TESTING	●	●				I.T. VENDOR
SPEAKERS	●	●				
SIGNAGE: INTERIOR (ADA AND CODE REQ'D SIGNAGE)			●	●		
SIGNAGE: EXTERIOR (CHANNEL LETTERS AND LOGO)	●	●				ELECTRICIAN TO PROVIDE POWER CONNECTION AND MAKE FINAL CONNECTIONS
SIGNAGE: EXTERIOR SNAP FRAME	●			●		
SIGNAGE: MONUMENT SIGN	●	●				FOUNDATION BY G.C.
FLAGPOLE (25' HEIGHT)			●	●		
FLAG (5' x 6' U.S. AMERICAN)		●	●			
FLAGPOLE LIGHTING			●	●		
FIRE EXTINGUISHERS			●	●		
11000 KITCHEN EQUIPMENT						
KITCHEN EQUIPMENT	●	●				PLUMBER & ELECTRICIAN TO PROVIDE UTILITY CONNECTIONS
12000 FURNISHINGS						
PATIO FURNITURE AND UMBRELLAS	●			●		IF SHOWN / REQUIRED PER PLANS
POTS AND PLANTS	●	●				
WIRE SHELVING	●	●				
15000 MECHANICAL						
HVAC UNITS			●	●		
HVAC CURBS			●	●		
T-STAT, REMOTE SENSORS, REMOTE TEST SWITCHES			●	●		
RESTROOM EXHAUST FANS			●	●		ELECTRICAL CONTRACTOR TO PROVIDE POWER AND FINAL CONNECTION
AIR DISTRIBUTION DUCTWORK			●	●		
FILTER REPLACEMENT PRIOR TO TURNOVER			●	●		
CONTROL WIRING			●	●		
CONDUIT FOR CONTROL WIRING			●	●		
HVAC SYSTEM START-UP			●	●		
AIR BALANCE REPORT			●	●		AIR BALANCE REPORT MUST BE PERFORMED BY INDEPENDENT 3RD PARTY
15000 PLUMBING						
THREE COMPARTMENT SINK	●	●				IF SHOWN / REQUIRED PER PLANS
THREE COMPARTMENT SINK FAUCET	●			●		IF SHOWN / REQUIRED PER PLANS
THREE COMPARTMENT DRAIN LINES			●	●		
PREP SINKS	●			●		IF SHOWN / REQUIRED PER PLANS
PREP SINK FAUCETS	●			●		
PREP SINK DRAIN LINES			●	●		
GAS REGULATORS FOR ROOF TOP EQUIPMENT			●	●	●	IF REQUIRED PER PLANS
GAS REGULATORS FOR WATER HEATER			●	●	●	IF REQUIRED PER PLANS
MOP SINK			●	●	●	
COFFEE BREWER WATER SUPPLY & SHUT-OFF VALVES			●	●		PLUMBER & ELECTRICIAN TO CONNECT UTILITIES
ICE MACHINE	●			●		PLUMBER & ELECTRICIAN TO CONNECT UTILITIES
ICE MACHINE WATER SUPPLY			●	●		
BLENDER STATION DRAIN LINES			●	●		
WATER HEATER			●	●	●	
WATER HEATER VENTS AND MONITORING ALARM			●	●		
WATER HEATER MANIFOLD KIT W/ TEMP. GAUGES			●	●		
FLOOR DRAINS AND FLOOR SINKS			●	●	●	
GREASE TRAP			●	●	●	
HANDSINKS	●	●				
HANDSINK FAUCETS	●			●		
RESTROOM PLUMBING FIXTURES			●	●	●	
BACKFLOW PREVENTERS / CHECK VALVES			●	●	●	ALSO; FIRE PROTECTION CONTRACTOR TO INSTALL ON F/P SYSTEM IF REQUIRED
R/O WATER SOFTENER SYSTEM	●			●		PLUMBING CONTRACTOR TO CONNECT R/O SYSTEM; CERTIFIED START-UP BY OTHERS

GATEGORY / TASK	OWNER FURNISHED	OWNER INSTALLED	CONTRACTOR FURNISHED	CONTRACTOR INSTALLED	SUBMITTAL REQUIRED	REMARKS
16000 ELECTRICAL						
LIGHT FIXTURES, EXIT SIGNS AND EMERGENCY LIGHTS						ELECTRICIAN TO FURNISH, RECEIVE, INVENTORY, STORE ON SITE AND INSTALL
LIGHT BULBS						ELECTRICIAN TO FURNISH, RECEIVE, INVENTORY, STORE ON SITE AND INSTALL
LIGHTING						G.C.TO ORDER ALL LIGHTING FIXTURES THROUGH OWNER REQUIRED VENDOR; FSGI scooters@fsgi.com
POWER TO ROOF TOP AIR CONDITIONING UNITS						
POWER TO EXHAUST FANS						
FIRE ALARM SYSTEM						IF SHOWN / REQUIRED PER PLANS
FIRE ALARM SYSTEM CONDUIT						IF SHOWN / REQUIRED PER PLANS
POWER AND PHONE JACK FOR FIRE ALARM SYSTEM						IF SHOWN / REQUIRED PER PLANS
SECURITY SYSTEM WIRING	●	●				
SECURITY SYSTEM CONDUIT			●	●		GC TO RUN CONDUIT ABOVE CEILING
OUTLET FOR SECURITY SYSTEM			●	●		
POWER FOR ALL KITCHEN EQUIPMENT			●	●		
POWER FOR WATER SOFTENER AND R/O SYSTEM			●	●		
POWER FOR ALL A/V EQUIPMENT			●	●		
J-BOXES AND CONDUIT FOR CABLE TV WIRING			●	●		
WIRING FOR SPEAKERS	●	●				
POWER FOR ICE MACHINE			●	●		
POWER FOR WATER HEATERS			●	●		
DIMMER CONTROLS			●	●		
POS WIRING / POS LOW VOLTAGE WIRING			●	●		GC TO INCLUDE CAT6 WIRES TO EACH LOCATION. OWNER TO TRIM OUT.
POS CONDUIT			●	●		CONDUIT TO ABOVE CEILING ONLY W/ PULL STRINGS
POS JUNCTION BOXES			●	●		
ISP / TELEPHONE CONDUIT HOMERUNS			●	●		GC TO RUN CONDUIT ABOVE CEILING
POWER FOR EXTERIOR SIGNAGE			●	●		
DOOR BELL / TRANSFORMER			●	●		IF SHOWN / REQUIRED PER PLANS
PANEL, BREAKERS AND SWITCHES			●	●		G.C. TO ORDER ALL PANELS, BREAKERS & SWITCHES THROUGH OWNER REQUIRED VENDOR; ECHO ELECTRIC alan.devereaux@echogroupinc.com
FRANKEE ESPRESSO STEP-DOWN TRANSFORMERS			●	●		
SECONDARIES FROM TRANSFORMERS TO BUILDING SERVICE			●	●		
TIME CLOCKS			●	●		IF SHOWN / REQUIRED PER PLANS
PHOTO ELECTRIC CELLS			●	●		IF SHOWN / REQUIRED PER PLANS
POWER FOR IRRIGATION CONTROL			●	●		
TEMPORARY POWER FOR CONSTRUCTION			●	●		G.C. MUST PROVIDE TEMPORARY POWER DURING CONSTRUCTION
MISCELLANEOUS						
COFFEE AND ESPRESSO EQUIPMENT	●	●				PLUMBER & ELECTRICIAN TO PROVIDE WATER & ELECTRICAL CONNECTIONS
KNOX BOX			●	●		IF REQUIRED BY FIRE DEPARTMENT
CLEANING CHEMICALS / EQUIPMENT INSTALL	●			●		G.C. TO INSTALL WIRE RACKING FOR CHEMICAL SYSTEM ONLY
STAINLESS STEEL OUTSIDE CORNERS			●	●		IF SHOWN / REQUIRED PER PLANS
CODE REQUIRED SIGNAGE			●	●		
ADA IDENTIFYING DEVICES			●	●		
LANDSCAPING			●	●		
SITE UTILITIES			●	●		
GAS SERVICE & METER (IF SHOWN/ REQUIRED ON PLANS)			●	●		G.C. TO HAVE UTILITIES IN THEIR NAME UNTIL TURNOVER DATE
WATER SERVICE AND METER			●	●		G.C. TO HAVE UTILITIES IN THEIR NAME UNTIL TURNOVER DATE
SEWER			●	●		G.C. TO HAVE UTILITIES IN THEIR NAME UNTIL TURNOVER DATE
TRANSFORMER			●	●		G.C. TO HAVE UTILITIES IN THEIR NAME UNTIL TURNOVER DATE
ELECTRICAL SERVICE AND METER			●	●		G.C. TO HAVE UTILITIES IN THEIR NAME UNTIL TURNOVER DATE
INTERNET SERVICE			●	●		ELECTRICAL SUB-CONTRACTOR TO PROVIDE SITE CONDUITS & PULL STRINGS

NOTES

#1: UNLESS SPECIFIED HEREIN NOT TO BE PROVIDED, INSTALLED AND / OR FINISHED BY PRIME CONTRACTOR, THE PRIME CONTRACTOR OR HIS SUB CONTRACTORS ARE TO PROVIDE, INSTALL AND FINISH ALL ITEMS IN THE CONSTRUCTION DOCUMENTS AND SPECIFIED IN THE PROJECT MANUAL.

#2: WHERE SUBMITTALS ARE NOT REQUIRED, THE EXACT SPEC. MUST BE USED.

REGISTRATION SEAL
NORTH CAROLINA REGISTERED SEAL 6408 ARCHITECT FREDERICK J. GOGLIA
4/17/25

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SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
1	04/16/25	BD & CLIENT COMMENTS	SW
2			
3			
4			
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9			

TITLE:
RESPONSIBILITY SCHEDULE

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

KIOSK PROTOTYPE:
4.2 REVERSE PROTOTYPE
JUNE 2024
ISSUE DATE:
03/21/2024
PROJECT NO.
240761
DRAWN BY:
AGG
CHECKED BY:
SW

SHEET NO.
G0.2

OCCUPANT LOAD AND EGRESS ANALYSIS

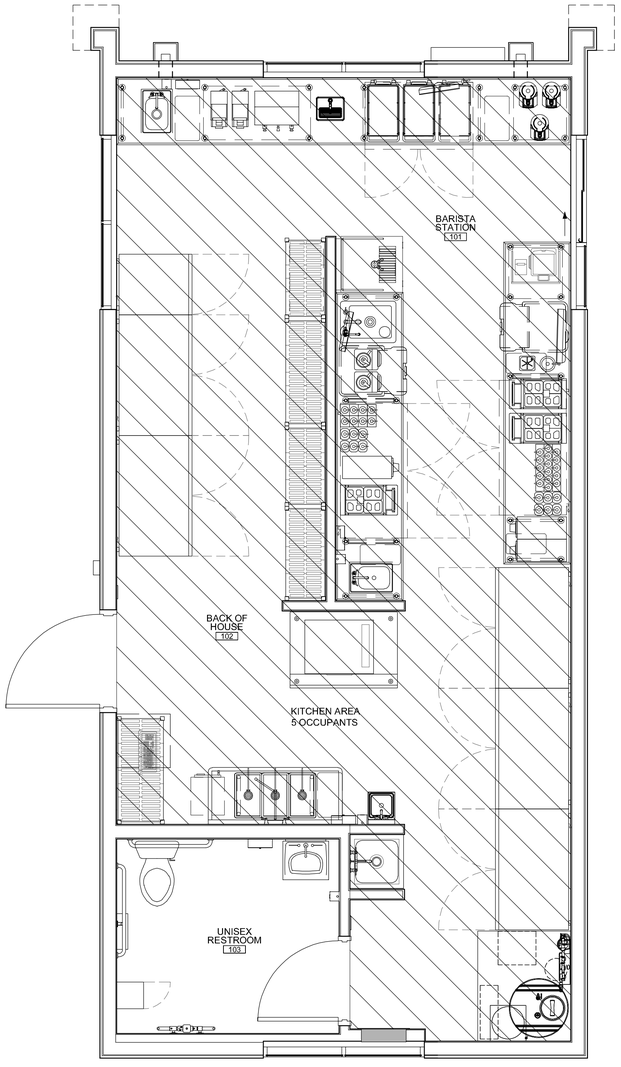
	USE	AREA	LOAD FACTOR	OCCUPANTS
	FOOD PREP	600 SF	1:200	3
	RESTROOM	68 SF	0	0
TOTAL OCCUPANTS:				3

SECTION 1004.2
THE OCCUPANT LOAD PERMITTING IN ANY BUILDING OR PORTION THEROF IS PERMITTED TO BE INCREASED FROM THAT NUMBER ESTABLISHED IN TABLE 1004.1.2 PROVIDED THAT ALL OTHER REQUIREMENTS OF THE CODE ARE MET BASED ON SUCH MODIFIED NUMBER AND THE OCCUPANT LOAD DOES NOT EXCEED ONE OCCUPANT PER 7 SQ FT OF OCCUPIABLE FLOOR SPACE.
MAX OCCUPANT LOAD PER 1004.2: 600 ÷ 7= 85
PROPOSED INCREASED OCCUPANT LOAD: 6

EXIT WIDTH CALCULATIONS:
6 OCCUPANTS x.2 = 1.2" REQUIRED - 36" PROVIDED

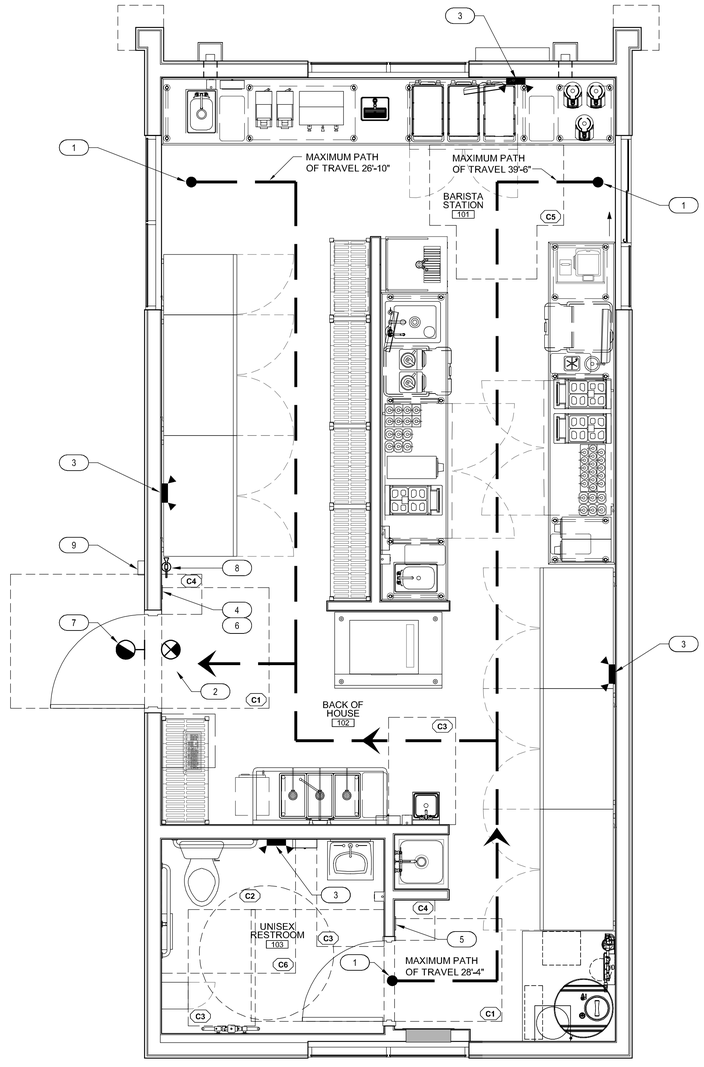
OCCUPANT LOAD IS 6 AND ONE EXIT IS REQUIRED, ONE IS PROVIDED.

ALLOWABLE PATH OF TRAVEL WITHOUT A SPRINKLER SYSTEM: 75'-0"
MAXIMUM PATH OF TRAVEL: 39'-6"



2 OCCUPANCY PLAN
SCALE: 3/8" = 1'-0"

PLAN NORTH



1 LIFE SAFETY PLAN
SCALE: 3/8" = 1'-0"

PLAN NORTH

GENERAL NOTES

1. CONTRACTOR TO PROVIDE A SUFFICIENT NUMBER OF 2A10BC MIN. RATED FIRE EXTINGUISHERS DURING CONSTRUCTION SO THAT ALL PORTIONS OF THE BUILDING ARE WITHIN 75 FT. TRAVEL DISTANCE OF SAID EXTINGUISHER & SO THAT AT LEAST ONE 2A10BC RATED FIRE EXTINGUISHER IS PROVIDED FOR EACH 3,000 SQ. FT. OF FLOOR SPACE OR PORTION THEREOF.
2. PROVIDE FIRE EXTINGUISHERS AS REQUIRED BY FIRE DEPARTMENT FIELD INSPECTOR DURING CONSTRUCTION & FOR COMPLETED PROJECT.
3. EXIT DOORS
   - 3.1. ALL EXIT DOORS SHALL SWING IN THE DIRECTION OF TRAVEL.
   - 3.2. ALL EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT SPECIAL KNOWLEDGE OR EFFORT (NO BOLTS, NO SLIDING BOLTS, ETC.).
   - 3.3. ALL EXIT DOORS & INTERVENING DOORS ON THE EXIT PATH, IF PROVIDED WITH A LOCK OR LATCH, MUST BE MARKED " THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS OCCUPIED".
   - 3.4. PROVIDE ILLUMINATED EXIT SIGNS ABOVE EXITS WITH MIN. 3/4"x6" LETTERS LIGHTED ON CONTRASTING BACKGROUND.
4. EXIT SIGNS
   - 4.1. EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED
   - 4.2. EXIT SIGNS ILLUMINATED BY AN EXTERNAL SOURCE SHALL HAVE AN INTENSITY OF NOT LESS THAN 5 FOOT CANDLES (54 LUX).
   - 4.3. INTERNALLY ILLUMINATED SIGNS SHALL BE LISTED AND LABELED AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND SECTION 2702.
   - 4.4. EXIT SIGNS SHALL BE ILLUMINATED AT ALL TIMES. (1011.3)
   - 4.5. EXIT SIGNS SHALL BE CONNECTED TO AN EMERGENCY POWER SYSTEM THAT WILL PROVIDE AN ILLUMINATION OF NOT LESS THAN 90 MIN. IN CASE OF PRIMARY POWER LOSS (1011.6.3).
5. EGRESS EMERGENCY LIGHTING
   - 5.1. THE MEANS OF EGRESS, INCLUDING THE EXIT DISCHARGE, SHALL BE ILLUMINATED AT ALL TIMES THE BUILDING SPACE SERVED BY THE MEANS OF EGRESS IS OCCUPIED.
   - 5.2. THE MEANS OF EGRESS ILLUMINATION LEVEL SHALL NOT BE LESS THAN 1 FOOT-CANDLE AT THE WALKING SURFACE.
   - 5.3. THE POWER SUPPLY FOR MEANS OF EGRESS ILLUMINATION SHALL NORMALLY BE PROVIDED BY THE PREMISES' ELECTRICAL SUPPLY IN THE EVENT OF SUPPLY; FAILURE OF AN EMERGENCY ELECTRICAL SYSTEM SHALL AUTOMATICALLY ILLUMINATE.
6. AN APPROVED SET OF NUMERALS, MINIMUM 4" HIGH WITH A STROKE WIDTH NOT LESS THAN 1/2 INCH, SHALL BE PLACED ON THE BUILDING. THE NUMBERING SHALL BE PLAINLY VISIBLE & LEGIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. SAID NUMERALS SHALL CONTRAST W/ THEIR BACKGROUND. IF THE ADDRESS THAT IS POSTED NEAR THE INTERSECTION OF THE DRIVEWAY & THE PUBLIC STREET OR ROAD FRONTING THE PROPERTY IS NOT VISIBLE, ADDITIONAL ADDRESSES POSTED NEAR THE INTERSECTION OF THE DRIVEWAY & THE PUBLIC STREET SHALL BE REQUIRED. (VERIFY REQUIREMENTS.)
7. PROVIDE A KNOX BOX FOR FIRE DEPT. ACCESS & KEY ACCESS, IF REQUIRED BY FIRE MARSHAL. LOCATION ON BUILDING TO BE DETERMINED BY FIRE MARSHAL.
8. GENERAL CONTRACTOR SHALL SECURE PERMITS REQUIRED BY THE FIRE DEPARTMENT FROM THE FIRE DEPARTMENT PRIOR TO OCCUPYING THIS BUILDING.
9. PROVIDE ALL WEATHER ACCESS ROAD (MIN 20') TO ALL BUILDINGS & HYDRANTS FROM PUBLIC WAY DURING CONSTRUCTION.

KEYNOTES (X)

1. EXIT PATH OF TRAVEL
2. EXIT SIGN, SEE ELECTRICAL DRAWINGS AND REFLECTED CEILING PLAN
3. EMERGENCY LIGHTING, SEE ELECTRICAL DRAWINGS AND REFLECTED CEILING PLAN
4. TACTILE EXIT SIGN - REFER TO ACCESSIBLE SIGNS DETAIL 1/G0.4
5. TACTILE RESTROOM SIGN - REFER TO ACCESSIBLE SIGNS DETAIL 1/G0.4
6. OCCUPANT LOAD SIGN. FINAL LOCATION APPROVED BY FIRE MARSHALL
7. EXTERIOR EXIT LIGHT, SEE ELECTRICAL DRAWING AND REFLECTED CEILING PLAN
8. 2A-10BC MINIMUM RATED FIRE EXTINGUISHER PER FIRE MARSHALL APPROVAL
9. KNOX BOX AT 60" A.F.F. AS REQUIRED BY FIRE DPARTMENT

LEGEND

- EMERGENCY LIGHT
- EXTERIOR EMERGENCY LIGHT
- EXIT SIGN, CONFIRM LOCATION REQUIREMENTS WITH FIRE MARSHAL
- EGRESS PATH OF TRAVEL
- 2A - 10BC MINIMUM RATED FIRE EXTINGUISHER - WALL HUNG

CLEARANCE KEYNOTE (XX)

- C1 DOOR WITH A CLOSER AND A LATCH
- C2 CIRCULAR TURNABOUT
- C3 CLEAR FLOOR SPACE
- C4 TACTILE SIGNS
- C5 T-TURN
- C6 WATER CLOSET

REGISTRATION SEAL
NORTH CAROLINA REGISTERED SEAL 6408 ARCHITECT FREDERICK J. GOGLIA
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SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
1			
2			
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4			
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TITLE:
LIFE SAFETY & OCCUPANCY PLAN

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

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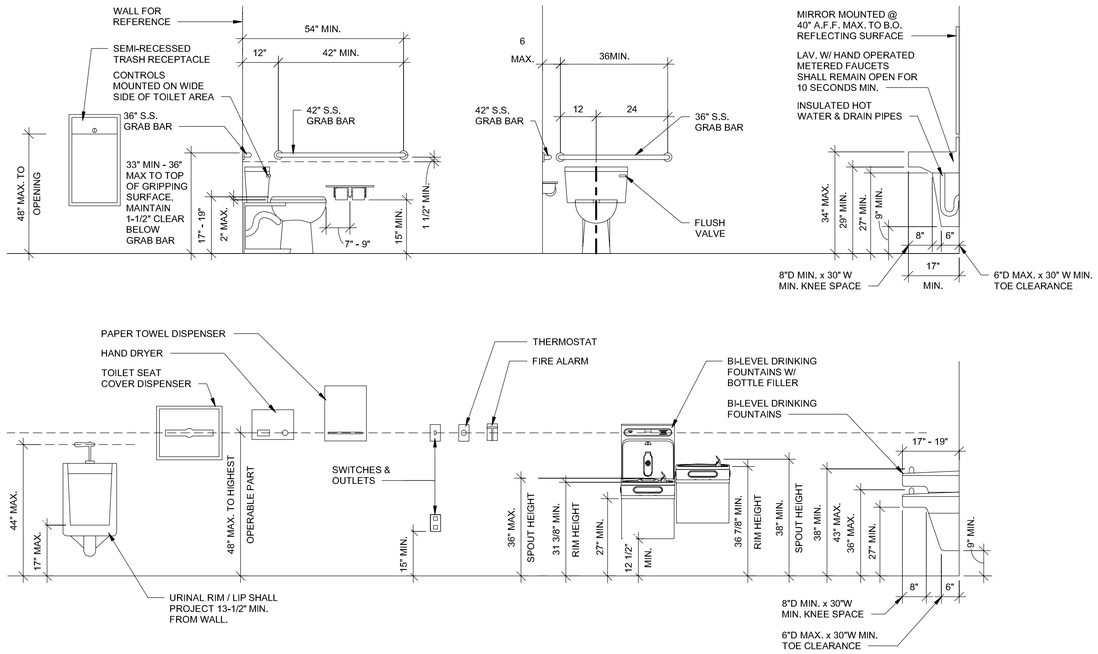
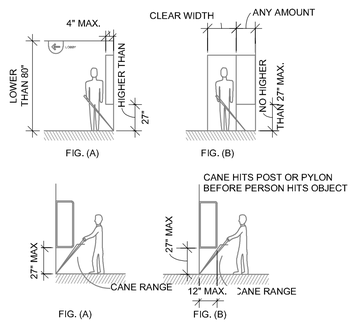


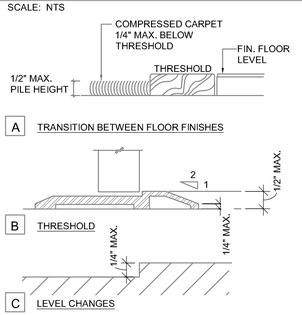
7 ADA MOUNTING HEIGHTS AND CLEARANCES FOR ACCESSIBILITY

SCALE: NTS



6 PROTRUDING OBJECTS

SCALE: NTS

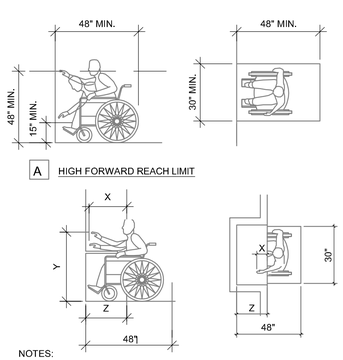


NOTES:

1. 1/2" MAXIMUM TOTAL HEIGHT WITH 1/4" MAXIMUM VERTICAL CHANGE AT EDGE.
2. 1 : 2 SLOPED BEVEL REQUIRED IF LEVEL CHANGE IS OVER 1/4" VERTICAL LEVEL CHANGE.
3. 1/4" MAXIMUM VERTICAL LEVEL CHANGE.

5 THRESHOLD/LEVEL CHANGES

SCALE: NTS

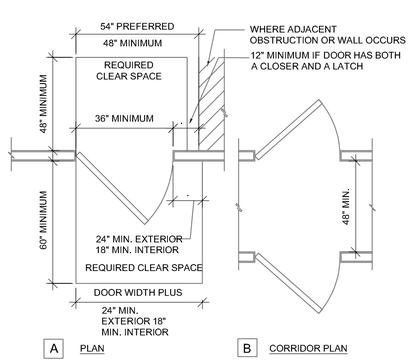


NOTES:

1. X SHALL BE < 25 INCHES; Z SHALL BE ≤ X.
2. WHEN X < 20 INCHES, THEN Y SHALL BE 48 INCHES MAXIMUM.
3. WHEN X IS 20 TO 25 INCHES, THEN Y SHALL BE 44 INCHES MAXIMUM.

4 REACH RANGES

SCALE: NTS



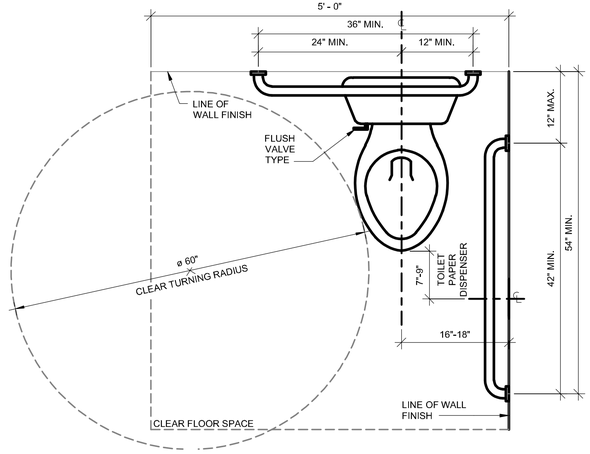
NOTES:

1.CLEAR SPACES MUST BE LEVEL TO PREVENT WHEELCHAIRS FROM ROLLING WHEN THE OCCUPANT RELEASES THE WHEEL GRIPS TO REACH FOR THE DOOR. 1/4" PER FOOT IS ALLOWED FOR DRAINAGE.

2.WHERE DOORS OPEN ONTO, BUT NOT INTO A CORRIDOR, THE REQUIRED LEVEL AREA BEYOND THE DOORS MAY BE A MINIMUM OF 48". FOR ADDITIONAL INFORMATION, SEE APPLICABLE NOTES ON TYPICAL ACCESSIBILITY NOTES SHEET.

3 DOOR CLEARANCE SPACE

SCALE: NTS



2 ADA TOILET LAYOUT

SCALE: 1" = 1'-0"

TACTILE SIGNAGE

A. WHEN SIGNS IDENTIFY A PERMANENT ROOM OR SPACE OF A BUILDING OR SITE, OR WHEN SIGNS DIRECT OR GIVE INFORMATION ABOUT A PERMANENT ROOM OR SPACE OF A BUILDING OR SITE, CORRESPONDING TACTILE SIGNAGE SHALL BE INSTALLED.

B. WHEN SIGNS IDENTIFY, OR GIVE INFORMATION ABOUT ACCESSIBLE ELEMENTS AND FEATURE OF A BUILDING OR SITE, THEY SHALL INCLUDE THE APPROPRIATE SYMBOL OF ACCESSIBILITY OR PICTOGRAM, WITH THE EQUIVALENT VISUAL AND TACTILE DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE OUTSIDE BORDER OF THE PICTOGRAM SHALL BE MINIMUM 6" IN HEIGHT.

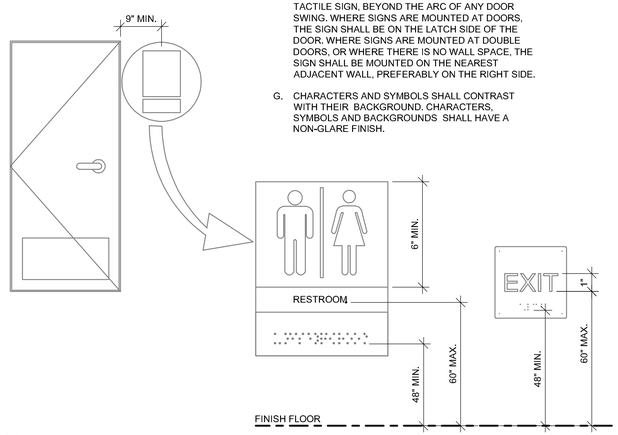
C. VISUAL CHARACTERS SHALL BE UPPERCASE, STANDARD SANS SERIF FONT. THE HEIGHT OF VISUAL CHARACTERS SHALL BE A MINIMUM 5/8" PLUS 1/8" PER FOOT OF VIEWING DISTANCE OVER SIX FEET. CHARACTER WIDTH SHALL BE 55% MINIMUM AND 110% MAXIMUM OF THE HEIGHT OF THE CHARACTER. CHARACTER STROKE WIDTH OF VISUAL ONLY CHARACTERS SHALL BE A MINIMUM OF 10% OF THE CHARACTER HEIGHT, AND A MAXIMUM OF 30%. TACTILE SIGNAGE DUPLICATING THE INFORMATION SHALL BE PROVIDED. EITHER AS PART OF THE VISUAL SIGN OR A SEPARATE TACTILE SIGN PROVIDED.

D. TACTILE CHARACTERS SHALL BE UPPERCASE, STANDARD SANS SERIF FONT, RAISED 1/32" OFF THE BACKGROUND. THE HEIGHT OF TACTILE CHARACTERS SHALL BE BETWEEN 5/8" AND 2". CHARACTER WIDTH SHALL BE 55% MINIMUM AND 110% MAXIMUM OF THE HEIGHT OF THE CHARACTER. CHARACTER STROKE WIDTH SHALL BE A MINIMUM OF 10% OF THE CHARACTER HEIGHT, AND A MAXIMUM OF 15%. CHARACTERS SHALL BE ACCOMPANIED BY GRADE 2 BRAILLE.

E. GRADE 2 BRAILLE SHALL HAVE DOMED OR ROUNDED DOTS RAISED 1/40" OFF THE BACKGROUND, WITH DOTS SPACED 1/10" WITH-IN CELLS, AND 1/4" BETWEEN CELLS. (OR SPACED PER ANSI TABLE 703.5)

F. WHEN PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS & SPACES, RAISED LETTERS SHALL BE PROVIDED & SHALL BE ACCOMPANIED BY BRAILLE IN CONFORMANCE W/ SECTION 703.4.1 TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48" MIN. ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST TACTILE CHARACTER AND 60" MAX. ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST TACTILE CHARACTER. MOUNTING LOCATIONS SHALL BE DETERMINED SO THAT THE PERSON MAY APPROACH WITHIN 3" OF THE SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR. AN 18" X 18" CLEAR SPACE IS REQUIRED IN FRONT OF THE TACTILE SIGN, BEYOND THE ARC OF ANY DOOR SWING. WHERE SIGNS ARE MOUNTED AT DOORS, THE SIGN SHALL BE ON THE LATCH SIDE OF THE DOOR. WHERE SIGNS ARE MOUNTED AT DOUBLE DOORS, OR WHERE THERE IS NO WALL SPACE, THE SIGN SHALL BE MOUNTED ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT SIDE.

G. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND. CHARACTERS, SYMBOLS AND BACKGROUNDS SHALL HAVE A NON-GLARE FINISH.



1 ACCESSIBLE SIGNS & PICTOGRAM

SCALE: NTS

REGISTRATION SEAL
NORTH CAROLINA REGISTERED SEAL 6408 ARCHITECT FREDERICK J. GOGLIA
4/16/25

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TITLE:

ACCESSIBILITY DETAILS

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
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SW

SHEET NO.

G0.4

ARCHITECTURAL SPECIFICATIONS

0101 SUMMARY OF WORK

A. DESCRIPTION
1.1. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION INDICATED ON THESE CONSTRUCTION DOCUMENTS, WITH FINAL APPROVALS OF ALL WORK.
1.2. THE CONTRACTOR RESPONSIBLE FOR THE PORTION OF THE WORK REQUIRING INSPECTIONS BY GOVERNMENT AGENCIES, IS CHARGED WITH REQUESTING ALL SUCH INSPECTIONS.
1.3. CLOSE COORDINATION WILL BE REQUIRED BETWEEN GENERAL, MECHANICAL AND ELECTRICAL CONTRACTORS. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO COORDINATE SCHEDULING AND PHASING OF CONSTRUCTION.
1.4. CLOSE COORDINATION OF FINAL EQUIPMENT CONNECTION REQUIREMENTS AND CONDITIONS WILL BE NECESSARY ON THIS PROJECT. ENGINEERING OF GAS, ELECTRIC, WATER AND SEWER AND VENTILATION SERVICES MAY VARY WITH FINAL SELECTIONS.

0108 APPLICABLE STANDARDS

A. DESCRIPTION
1.1. WORK INCLUDED: THROUGHOUT THE CONTRACT DOCUMENTS, REFERENCE IS MADE TO CODES AND STANDARDS WHICH ESTABLISH QUALITIES AND TYPES OF WORKMANSHIP AND MATERIALS, AND WHICH ESTABLISH METHODS FOR TESTING AND REPORTING ON THE PERTINENT CHARACTERISTICS.
1.2. RELATED WORK DESCRIBED ELSEWHERE: SPECIFIC NAMING OF CODES OR STANDARDS OCCURS ON THE DRAWINGS AND IN OTHER SECTIONS OF THESE SPECIFICATIONS.
B. QUALITY ASSURANCE:
1.1. FAMILIARITY WITH PERTINENT CODES AND STANDARDS: IN PROCURING ALL ITEMS USED IN THIS WORK IT IS CONTRACTOR'S RESPONSIBILITY TO VERIFY THE DETAILED REQUIREMENTS OF THE PREVAILING CODES AND STANDARDS AND TO VERIFY THAT THE ITEMS PROCURED FOR USE IN THE WORK MEET OR EXCEED THE SPECIFIED REQUIREMENTS.
1.2. REJECTION OF NON-COMPLYING ITEMS: THE TENANT RESERVES THE RIGHT TO REJECT ITEMS INCORPORATED INTO THE WORK, WHICH FAIL TO MEET THE SPECIFIED MINIMUM REQUIREMENTS. THE TENANT FURTHER RESERVES THE RIGHT, AND WITHOUT PREJUDICE TO OTHER RECOURSE THE TENANT MAY TAKE, TO ACCEPT NON-COMPLYING ITEMS SUBJECT TO AN ADJUSTMENT IN THE CONTRACT AMOUNT AS APPROVED BY THE OWNER.
1.3 APPLICABLE STANDARDS LISTED IN THESE SPECIFICATION INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO, STANDARDS PROMULGATED BY THE FOLLOWING AGENCIES AND ORGANIZATION:
AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)
AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (AITC)
AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
AMERICAN PLYWOOD ASSOCIATION (APA)
AMERICAN SOCIETY OF TESTING AND MATERIALS (ASTM)
AMERICAN WELDING SOCIETY (AWS)
ARCHITECTURAL ALUMINUM MANUFACTURERS ASSOCIATION (AAMA)
ARCHITECTURAL WOODWORK INSTITUTE (AWI)
INTERNATIONAL BUILDING CODE (IBC)
INTERNATIONAL CODE COUNCIL (ICC)
ICC EVALUATION SERVICE, LLC
INTERNATIONAL ASSOCIATION OF PLUMBING & MECHANICAL OFFICIALS (IAPMO)
COMMERCIAL SPECIFICATIONS (CS)
CONCRETE REINFORCING STANDARDS
NATIONAL ACOUSTICAL CONTRACTORS ASSOCIATION
NATIONAL ASSOCIATION OF ARCHITECTURAL METAL MANUFACTURERS (NAAMA)
NATIONAL BUILDERS HARDWARE ASSOCIATION (NBHA)
NATIONAL CONCRETE MASONRY ASSOCIATION
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
NATIONAL SANITATION FOUNDATION (NSF)
NATIONAL WOODWORK MANUFACTURERS ASSOCIATION (NWMA)
TILE COUNCIL OF AMERICA (TCA)
UNDERWRITER LABORATORIES (UL)

0171 CLEANING

A. DESCRIPTION:
1.1. SCOPE OF WORK: THROUGHOUT THE CONSTRUCTION PERIOD, MAINTAIN THE BUILDING AND SITE IN A STANDARD OF CLEANLINESS AS DESCRIBED IN THIS SECTION.
1.2. RELATED WORK: IN ADDITION TO STANDARDS DESCRIBED IN THIS SECTION, COMPLY WITH ALL REQUIREMENTS FOR CLEANING UP AS DESCRIBED IN VARIOUS OTHER SECTIONS OF THESE SPECIFICATIONS.

1.3 FINAL CLEANING:
a. DEFINITION: EXCEPT AS OTHERWISE SPECIFICALLY PROVIDED, "CLEAN" (FOR THE PURPOSE OF THIS ARTICLE) SHALL BE INTERPRETED AS MEANING THE LEVEL OF CLEANLINESS GENERALLY PROVIDED BY SKILLED CLEANERS USING COMMERCIAL QUALITY BUILDING MAINTENANCE EQUIPMENT AND MATERIALS.
b. GENERAL: PRIOR TO COMPLETION OF THE WORK, REMOVE FROM THE JOB SITE ALL TOOLS, SURPLUS MATERIALS, EQUIPMENT, SCRAP, DEBRIS, AND WASTE.
c. INTERIOR: VISUALLY INSPECT ALL INTERIOR SURFACES AND REMOVE ALL TRACES OF SOIL, WASTE MATERIAL, SMUDGES, AND OTHER FOREIGN MATTER. REMOVE ALL TRACES OF SPLASHED MATERIALS FROM ADJACENT SURFACES. REMOVE ALL PAINT DROPPINGS, SPOTS, STAINS, AND DIRT FROM FINISHED SURFACES. USE ONLY THE SPECIFIED CLEANING MATERIALS AND EQUIPMENT.

0550 -METAL FABRICATIONS

1. WORK INCLUDES MISCELLANEOUS SHOP FABRICATED FERROUS METAL ITEMS, INCLUDING BUT NOT LIMITED TO:

A. LOOSE STEEL LINTELS
B. MISCELLANEOUS FRAMING, SUPPORTS AND TRIM
C. ROOF LADDERS
D. STEEL DECK PANELS

2. MATERIALS

A. STEEL SECTIONS: ASTM A36.
B. STEEL TUBING: ASTM A500 OR ASTM A501.
C. STAINLESS STEEL: TYPE 304 (18-8), ASTM A269; SATIN POLISHED FINISH.
D. STEEL PIPE: ASTM A53, GRADE B, STANDARD WEIGHT (SCHEDULE 40).
E. MALLEABLE IRON CASTINGS; ASTM A47.
F. BOLTS, NUTS, AND WASHERS. ASTM A307.
G. WELDING MATERIALS: ASW D1.1; TYPE REQUIRED FOR MATERIALS BEING WELDED.
H. PRIMER SSPC-PAINT 2, FOR SHOP APPLICATION AND FIELD TOUCH-UP.
I. STEEL DECK PANELS: ASTM A446 WITH G90 GALVANIZED COATING, STEEL ASTM A611, GRADE C, SHOP PRIMED.

3. FABRICATION:

A. VERIFY DIMENSIONS IN FIELD PRIOR TO SHOP FABRICATION.
B. FABRICATE ITEMS WITH JOINTS TIGHTLY FITTED AND SECURED.
C. FIT AND SHOP ASSEMBLE IN LARGEST PRACTICAL SECTIONS, FOR DELIVERY TO SITE.
D. PRIME PAINT ITEMS SCHEDULE TO PROVIDE A UNIFORM DRY FILM THICKNESS OF 2.0 MILS.

0720 - THERMAL INSULATION

A. GENERAL: PROVIDE THERMAL INSULATION WITH ACCESSORIES AS REQUIRED FOR COMPLETE INSTALLATION.
1. INSULATION INTEGRAL WITH ROOFING AND INSULATION IN EXTERIOR WALLS.
B. ACCESSORIES: PROVIDE TAPE OR PENETRATION ANCHORS WHERE REQUIRED TO ENSURE PERMANENT INSTALLATION.

A. MATERIALS:

1.1 ROOF INSULATION POLYISOCYANURATE INSULATION BOARD FIRESTONE STANDARD ISO 95+GL (OR EQUAL) COVER BOARD FIRESTONE ASTM C1289 TYPE II, CLASS 4 ISOGARD HD COMPOSITE COVER BOARD (OR EQUAL)
1.2 THERMAL BATT INSULATION: PREFORMED GLASS FIBER BATT WITH FSK-25 REFLECTIVE MEMBRANE ON ONE SIDE ASTM C665 TYPE III, CLASS A KNAUF INSULATION ECOBATT INSULATION (OR EQUAL).
1.3 TAPE: TO MATCH FOIL SCRIM KRAFT FACE; 2 INCH WIDTH.
1.4 EXTRUDED POLYSTYRENE (XPS) RIGID FOAM INSULATION UNDER GRADE. ASTM C578 TYPE IV OWENS CORNING FOAMULAR 250 (OR EQUAL).
1.5 ACOUSTICAL BATT INSULATION PERFORMED FIBER BATT UNFACED ASTM C665 TYPE I, CLASS A KNAUF INSULATION ECOBATT INSULATION (OR EQUAL).

B. INSTALLATION:

1. INSTALL INSULATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND AS INDICATED.
2. TRIM INSULATION NEATLY TO FIT SPACES. INSTALL WITHOUT GAPS OR VOIDS.

3. INSTALLATION OF THERMAL BATT INSULATION:

3.1. INSTALL INSULATION WITH VAPOR BARRIER TOWARD WARM SIDE OF BUILDING SPACES. VAPOR BARRIER SHALL BE CONTINUOUS. TAPE SEAL TEARS OR CUTS IN VAPOR BARRIER

3.2. PACK BATT INSULATION IN SHIM SPACES AT PERIMETER OF WINDOW ASSEMBLY TO MAINTAIN CONTINUITY OF THERMAL BARRIER.

3.3. MECHANICAL FASTENING:

3.3.1. AT LOCATIONS WHERE NO FRAMING IS PRESENT TO SUPPORT THE INSULATION, PROVIDE METAL IMPALING PINS AND RETAINERS TO HOLD THE INSULATION FIRMLY IN PLACE.

3.3.2. MECHANICALLY OR ADHESIVELY BOND THE RETAINING PINS TO THE SUBSTRATE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

3.3.3. SPACE PINS AT MAXIMUM 24 INCHES ON CENTER ALONG THE EDGES AND WITHIN THE FIELD OF THE BLANKET. PLACE EDGE PINS WITHIN 6 INCHES FROM THE EDGE OF THE BATT.

4. INSTALLATION OF RIGID PERIMETER INSULATION: INSTALL INSULATION TO 24" BELOW GRADE WITH PROTECTION BOARD.

C. R VALUE SCHEDULE:

1.1 PROVIDE INSULATION IN SUFFICIENT THICKNESS SEE INSULATION REQUIREMENTS ON SHEET A3.1 (BUILDING SECTIONS) AND COMCHECK REPORT.

7457 CEMENTITIOUS PANELS

PART 1 GENERAL

1.1. SECTION INCLUDES
A. CEMENTITIOUS EXPRESS/REVEAL JOINTED PANELS WITH ACCESSORIES. (JAMES HARDIE HZ5 HARDIE REVEAL PANELS).

PART 2 PRODUCTS

2.1 MANUFACTURERS
A. ACCEPTABLE MANUFACTURER: JAMES HARDIE BUILDING PRODUCTS, INC., WHICH IS LOCATED AT: 231 SOUTH LASALLE STREET UNIT 2000, CHICAGO, IL 60606. ASD. TOLL FREE TEL: 866-274-3464; TEL: 312-705-6000; EMAIL: INFO@JAMESHARDIE.COM; WEB: HTTP://WWW.JAMESHARDIEPROS.COM/PRODUCTS /HARDIE-REVEAL-PANEL-SYSTEM
2.2 CLADDING
A. CEMENT CLADDING PANELS: HARDIE REVEAL PANEL AS MANUFACTURED BT JAMES HARDIE BUILDING PRODUCTS, INC. 5/16 INCHES THICK, 3 FEET 11.5 INCHES (1206 MM) WIDE BY 7 FEET 11.5 INCHES (2426) MM LONG. PRODUCT SHALL BE ENGINEERED FOR CLIMATE CONDITIONS.
1. MANUFACTURER'S CLIMATE ZONE PRODUCT: HZ5 FOR COLD CLIMATES WITH A YELLOW TINT PRIMER - SMOOTH FINISH.
B. CODE COMPLIANCE REQUIREMENT FOR SIDING MATERIALS:
1. FIBER-CEMENT SIDING, COMPLIES WITH ASTM C 1186 TYPE A GRADE II.
2. FIBER-CEMENT SIDING, COMPLIES WITH ASTM E 136 AS A NONCOMBUSTIBLE MATERIAL.
3. FIBER-CEMENT SIDING, COMPLIES WITH ASTM E 84 FLAME SPREAD INDEX = 0, SMOKE DEVELOPED INDEX=5.
4. FIBER-CEMENT SIDING, COMPLIES WITH ASTM E 119 1 HOUR AND 2 HOUR FIRE RESISTIVE ASSEMBLIES LISTED WITH WARNOCK HERSEY.
5. FIBER-CEMENT SIDING, TESTED TO ASTM E330 FOR TRANSVERSE LOADS.
6. INTERTEK WARNOCK HERSEY PRODUCT LISTING.
7. MANUFACTURER'S TECHNICAL DATA SHEET.
2.3 WEATHER BARRIER
A. WEATHER BARRIER: JAMES HARDIE HARDIEWRAP AND HARDIEWRAP FLASHING AND SEAM TAPES (OR EQUAL).
B. CODE COMPLIANCE REQUIREMENT FOR WEATHER BARRIER:
1. THICKNESS, 11 MIL SHEET.
2. BREATHABILITY IN ACCORDANCE WITH ASTM E96.
3. TEAR STRENGTH IN ACCORDANCE WITH ASTM D1117.
4. WATER RESISTANCE IN ACCORDANCE WITH AATCC127.
5. AIR PENETRATION IN ACCORDANCE WITH TAPPI-T460.
6. HARDIEWRAP WEATHER BARRIER ICC-ES EVALUATION REPORT ESR-2258.
2.4 ACCESSORIES
A. TRIMS: REVEAL TRIMS MANUFACTURED BY CUSTOM ALUMINUM OF ELGIN, IL IN THE FOLLOWING PROFILES SUPPLIED BY JAMES HARDIE. ALUMINUM ALLOY 6063-T5 WITH A MINIMUM THICKNESS OF 0.050 INCH. ALL REVEAL TRIMS ARE 8 FEET IN LENGTH.
1. SURROUND HORIZONTAL TRIM.
2. SURROUND VERTICAL TRIM.
3. SURROUND HORIZONTAL END CUT TRANSITION TRIM.
4. SURROUND OUTSIDE CORNER TRIM.
5. SURROUND INSIDE CORNER TRIM.
6. SURROUND J CHANNEL TRIM.
7. SURROUND DRAINAGE FLASHING
8. RECESS HORIZONTAL TRIM.
9. RECESS HORIZONTAL EDGE TRIM.
10. RECESS VERTICAL F-TRIM.
11. RECESS OUTSIDE CORNER TRIM.
12. RECESS DRAINAGE FLASHING.
B. TRIMS: TRIM BY FRY REGLET
1. V2 VERTICAL MOLDING
2.5 FASTENERS
A. FASTENERS: FOR ATTACHING HARDIE REVEAL PANEL DIRECT TO SHEATHING TO A RAIN SCREEN PROVIDE THE FOLLOWING:
1. WOOD FRAMING, FLATHEAD SCREWS: NO. 8 BY 1-1/2 INCH LONG, PAINT TO MATCH PANELS.
2. FASTENERS SHALL BE OF HIGH QUALITY STAINLESS STEEL TO ENSURE RESISTANCE TO CORROSION. FOR FIELD PAINTING, FASTENERS SHALL BE TREATED TO ACCEPT PAINT ADHESION.

PART 3 EXECUTION

3.1 EXAMINATION
A. DO NOT BEGIN INSTALLATION UNTIL SUBSTRATES HAVE BEEN PROPERLY PREPARED.
B. IF FRAMING PREPARATION IS THE RESPONSIBILITY OF ANOTHER INSTALLER, NOTIFY ARCHITECT OF UNSATISFACTORY PREPARATION BEFORE PROCEEDING.
3.2 PREPARATION
A. CLEAN SURFACES THOROUGHLY PRIOR TO INSTALLATION.
B. PREPARE SURFACES USING THE METHODS RECOMMENDED BY THE MANUFACTURER FOR ACHIEVING THE BEST RESULT FOR THE SUBSTRATE UNDER THE PROJECT CONDITIONS.
C. ENSURE THAT DRAINAGE PLANE IN INTACT AND ALL PENETRATIONS ARE SEALED.
3.3 INSTALLATION
A. WOOD FRAMING: NOMINAL 2 INCH BY 4 INCH (51 MM BY 102 MM) WOOD FRAMING SELECTED FOR MINIMAL SHRINKAGE AND COMPLYING WITH LOCAL BUILDING CODES, INCLUDING THE USE OF WATER-RESISTIVE BARRIERS OR VAPOR BARRIERS WHERE REQUIRED. MINIMUM 1-1/2 INCHES (38 MM) FACE AND STRAIGHT, TRUE, OF UNIFORM DIMENSIONS AND PROPERLY ALIGNED.
1. INSTALL WATER-RESISTIVE BARRIERS AND CLADDINGS TO DRY SURFACES.
2. REPAIR AND PUNCTURES OR TEARS IN THE WATER-RESISTIVE BARRIER PRIOR TO THE INSTALLATION OF THE SIDING.
3. PROTECT SIDING FROM OTHER TRADES.

07462 SIDING

PART 1 GENERAL

1.1. SECTION INCLUDES
A. FIBER CEMENT LAP SIDING, PANELS, SHINGLE, TRIM, FASCIA, MOULDING AND ACCESSORIES; JAMES HARDIE HZ5 ENGINEERED FOR CLIMATE SIDING.
1.2 WARRANTY
A. PRODUCT WARRANTY: LIMITED, NON-PRO-RATED PRODUCT WARRANTY.
1. HARDIEPLANK HZ5 LAP SIDING FOR 30 YEARS.
B. WORKMANSHIP WARRANTY: APPLICATION LIMITED WARRANTY FOR 2 YEARS.

07462 SIDING

PART 2 PRODUCTS

2.1 MANUFACTURERS
A. ACCEPTABLE MANUFACTURER: JAMES HARDIE BUILDING PRODUCTS, INC., WHICH IS LOCATED AT: 26300 LA ALAMEDA SUITE 400 ; MISSION VIEJO, CA 92691; TOLL FREE TEL: 866-274-3464; TEL: 949-367-4980; FAX: 949-367-4981; EMAIL: REQUEST INFO (INFO@JAMESHARDIE.COM); WEB: WWW.JAMESHARDIECOMMERCIAL.COM
2.2 SIDING
A. HARDIEPLANK HZ5 LAP SIDING:
1. FIBER-CEMENT SIDING - COMPLIES WITH ASTM C 1186 TYPE A GRADE II.
2. FIBER-CEMENT SIDING - COMPLIES WITH ASTM E 136 AS A NONCOMBUSTIBLE MATERIAL.
3. FIBER-CEMENT SIDING - COMPLIES WITH ASTM E 84 FLAME SPREAD INDEX = 0, SMOKE DEVELOPED INDEX = 5.
4. CAL-FIRE, FIRE ENGINEERING DIVISION BUILDING MATERIALS LISTING - WILDLAND URBAN INTERFACE (WUI) LISTED PRODUCT.
5. NATIONAL EVALUATION REPORT NO. NER 405 (BOCA, ICBO, SBCCI, IBC, IRC).
6. CITY OF LOS ANGELES, RESEARCH REPORT NO. 24862.
7. MIAMI DADE COUNTY, FLORIDA NOTICE OF ACCEPTANCE 02-0729.02.
8. US DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT MATERIALS RELEASE 1263D.
9. CALIFORNIA DSA PA-019.
10. CITY OF NEW YORK M EA 223-93-M.
11. FLORIDA STATE PRODUCT APPROVAL FL889.
12. TEXAS DEPARTMENT OF INSURANCE PRODUCT EVALUATION EC-23.
13. ICC ESR REPORTS #2290, #1844
A. LAP SIDING: HARDIEPLANK HZ5 LAP AS MANUFACTURED BY JAMES HARDIE BUILDING PRODUCTS, INC.
1. TYPE: SELECT CEDARMILL 6-1/4 INCHES (159 MM) WITH 5 INCHES (127 MM) EXPOSURE.
C. TRIM:
1. HARDIETRIM HZ5 BOARDS AS MANUFACTURED BY JAMES HARDIE BUILDING PRODUCTS, INC.
2. HARDIETRIM HZ5 FASCIA BOARDS AS MANUFACTURED BY JAMES HARDIE BUILDING PRODUCTS, INC.

2.3 FASTENERS
A. WOOD FRAMING FASTENERS:
1. WOOD FRAMING: 4D COMMON CORROSION RESISTANT NAILS.
2. WOOD FRAMING: 6D COMMON CORROSION RESISTANT NAILS.
3. WOOD FRAMING: 8D BOX RING COMMON CORROSION RESISTANT NAILS.
4. WOOD FRAMING: 0.089 INCH (2.2 MM) SHANK BY 0.221 INCH (5.6 MM) HEAD BY 2 INCHES (51 MM) CORROSION RESISTANT SIDING NAILS.
5. WOOD FRAMING: 0.093 INCH (2.4 MM) SHANK BY 0.222 INCH (5.6 MM) HEAD BY 2 INCHES (51 MM) CORROSION RESISTANT SIDING NAILS.
6. WOOD FRAMING: 0.093 INCH (2.4 MM) SHANK BY 0.222 INCH (5.6 MM) HEAD BY 2-1/2 INCHES (64 MM) CORROSION RESISTANT NAILS.
7. WOOD FRAMING: 0.091 INCH (2.3 MM) SHANK BY 0.221 INCH (5.6 MM) HEAD BY 1-1/2 INCHES (38 MM) CORROSION RESISTANT SIDING NAILS.
8. WOOD FRAMING: 0.091 INCH (2.3 MM) SHANK BY 0.225 INCH (5.7 MM) HEAD BY 1-1/2 INCHES (38 MM) CORROSION RESISTANT SIDING NAILS.
9. WOOD FRAMING: 0.121 INCH (3 MM) SHANK BY 0.371 INCH (9.44 MM) HEAD BY 1-1/4 INCHES (32 MM) CORROSION RESISTANT ROOFING NAILS.
10. WOOD FRAMING: NO. 11 GAUGE 1-1/4 INCHES (38 MM) CORROSION RESISTANT ROOFING NAILS.
11. WOOD FRAMING: NO. 11 GAUGE 1-1/2 INCHES (38 MM) CORROSION RESISTANT ROOFING NAILS.
12. WOOD FRAMING: NO. 11 GAUGE 1-3/4 INCHES (44 MM) CORROSION RESISTANT ROOFING NAILS.
2.4 FINISHES
A. FACTORY PRIMER: PROVIDE FACTORY APPLIED UNIVERSAL PRIMER.
1. PRIMER: FACTORY PRIMED BY JAMES HARDIE.

PART 3 EXECUTION

3.1 PREPARATION
A. CLEAN SURFACES THOROUGHLY PRIOR TO INSTALLATION.
B. PREPARE SURFACES USING THE METHODS RECOMMENDED BY THE MANUFACTURER FOR ACHIEVING THE BEST RESULT FOR THE SUBSTRATE UNDER THE PROJECT CONDITIONS.
C. INSTALL A WATER-RESISTIVE BARRIER IS REQUIRED IN ACCORDANCE WITH LOCAL BUILDING CODE REQUIREMENTS.
D. THE WATER-RESISTIVE BARRIER MUST BE APPROPRIATELY INSTALLED WITH PENETRATION AND JUNCTION FLASHING IN ACCORDANCE WITH LOCAL BUILDING CODE REQUIREMENTS.
3.2 INSTALLATION- HARDIEPLANK HZ10 LAP SIDING
A. INSTALL MATERIALS IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
B. STARTING: INSTALL A MINIMUM $\frac{1}{4}$ INCH (6 MM) THICK LATH STARTER STRIP AT THE BOTTOM COURSE OF THE WALL. APPLY PLANKS HORIZONTALLY WITH MINIMUM 1-1/4 INCHES (32 MM) WIDE LAPS AT THE TOP THE BOTTOM EDGE OF THE FIRST PLANK OVERLAPS THE STARTER STRIP.
C. ALLOW MINIMUM VERTICAL CLEARANCE BETWEEN THE EDGE OF SIDING AND ANY OTHER MATERIAL IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
D. ALIGN VERTICAL JOINTS OF THE PLANKS OVER FRAMING MEMBERS.
E. MAINTAIN CLEARANCE BETWEEN SIDING AND ADJACENT FINISHED GRADE.
F. LOCATE SPLICES AT LEAST ONE STUD CAVITY AWAY FROM WINDOW AND DOOR OPENINGS.
G. USE OFF-STUD METAL JOINER IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
H. WIND RESISTANCE: WHERE A SPECIFIED LEVEL OF WIND RESISTANCE IS REQUIRED HARDIEPLANK LAP SIDING IS INSTALLED TO FRAMING MEMBERS AND SECURED WITH FASTENERS DESCRIBED IN TABLE NO. 2 IN NATIONAL EVALUATION SERVICE REPORT NO. NER-405.
I. FACE NAIL TO SHEATHING.
J. LOCATE SPLICES AT LEAST 12 INCHES (305 MM) AWAY FROM WINDOW AND DOOR OPENINGS.

0753 - ROOFING SYSTEM

PART 1 GENERAL

1.1 SUMMARY

A. MEMBRANE TYPE: DURO-LAST 50-MIL MEMBRANE (ROLL GOODS)
1. ROLL WIDTH: 60" (INSTALLED WIDTHS MAY VARY)
2. MEMBRANE COLOR: WHITE
3. ATTACHMENT TYPE: MECHANICALLY FASTENED
4. FASTENERS: DURO-LAST® HD SCREW (#14)
5. PLATES: DURO-LAST® CLEAT PLATE™
B. INSULATION LAYER 1 TYPE: DURO-GUARD® ISO HD COMPOSITE (COATED GLASS FACER)
1. BOARD APPLICATION: FLAT STOCK
2. BOARD STYLE: LAYER THICKNESS
3. BOARD SIZE: 4' X 8'
4. THICKNESS: 2.5"
5. ATTACHMENT TYPE: MECHANICALLY FASTENED
6. FASTENERS: DURO-LAST® HD SCREW (#14)
7. PLATES: DURO-LAST® INSULATION PLATE
C. INSULATION LAYER 2 TYPE: DURO-GUARD® ISO II (GLASS REINFORCED FACER)
1. BOARD APPLICATION: FLAT STOCK
2. BOARD STYLE: MIN. ASSEMBLY R-VALUE
3. BOARD SIZE: 4' X 8'
4. THICKNESS/R-VALUE: R-25
5. ATTACHMENT TYPE: MECHANICALLY FASTENED
6. FASTENERS: DURO-LAST® HD SCREW (#14)
7. PLATES: DURO-LAST® 3-INCH METAL PLATE
C. DECK TYPE: PLYWOOD (1/2 IN.)
D. PREFABRICATED FLASHINGS, CORNERS, PARAPETS, STACKS, VENTS, AND RELATED DETAILS.
E. FASTENERS, ADHESIVES, AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE ROOFING INSTALLATION.
F. TRAFFIC PROTECTION.

1.2 REFERENCES

A. ASTM INTERNATIONAL (ASTM)
1. (2019) STANDARD TEST METHODS FOR COATED FABRICS (D751)
2. (2021) STANDARD SPECIFICATION FOR POLY(VINYL CHLORIDE) SHEET ROOFING (D4434/D4434M)
3. (2022) STANDARD SPECIFICATION FOR FACED RIGID CELLULAR POLYISOCYANURATE THERMAL INSULATION BOARD (C1289)
4. (2020) STANDARD TEST METHODS FOR FIRE TESTS OF ROOF COVERINGS (E108)
5. (2020) STANDARD TEST METHODS FOR FIRE TESTS OF BUILDING CONSTRUCTION AND MATERIALS (E119)
B. UL SOLUTIONS (UL)
1. (2021) UL ROOFING SYSTEMS (TGFU.R10128)
C. AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE)
1. (2007) MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES (ASCE STANDARD - ASCE/SEI 7-05)
2. (2014) MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES (ASCE STANDARD - ASCE/SEI 7-10)
3. (2017) MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES (ASCE STANDARD - ASCE/SEI 7-16)
D. NATIONAL ROOFING CONTRACTORS ASSOCIATION (NRCA)
1. (2019) NRCA ROOFING MANUAL - MEMBRANE SYSTEMS

1.3 SYSTEM DESCRIPTION

A. GENERAL: PROVIDE INSTALLED ROOFING MEMBRANE AND BASE FLASHINGS THAT REMAIN WATERTIGHT; DO NOT PERMIT THE PASSAGE OF WATER; AND RESIST SPECIFIED UPLIFT PRESSURES, THERMALLY INDUCED MOVEMENT, AND EXPOSURE TO WEATHER WITHOUT FAILURE.
B. MATERIAL COMPATIBILITY: PROVIDE ROOFING MATERIALS THAT ARE COMPATIBLE WITH ONE ANOTHER UNDER CONDITIONS OF SERVICE AND APPLICATION REQUIRED, AS DEMONSTRATED BY ROOFING MEMBRANE MANUFACTURER BASED ON TESTING AND FIELD EXPERIENCE.
C. PHYSICAL PROPERTIES (MUST MEET OR EXCEED):
1. ROOF PRODUCT MUST MEET THE REQUIREMENTS OF TYPE III PVC SHEET ROOFING AS DEFINED BY ASTM D4434.
2. THICKNESS: 50 MIL, NOMINAL, IN ACCORDANCE WITH ASTM D751.
3. THICKNESS OVER SCRIM: ≥ 28 MIL IN ACCORDANCE WITH ASTM D7635.
4. BREAKING STRENGTH: ≥ 438 LBF. (MACHINE DIRECTION) AND ≥ 390 LBF. (CROSS MACHINE DIRECTION) IN ACCORDANCE WITH ASTM D751 GRAB METHOD.
5. ELONGATION AT BREAK: ≥ 31% (MACHINE DIRECTION) AND ≥ 31% (CROSS MACHINE DIRECTION) IN ACCORDANCE WITH ASTM D751 GRAB METHOD.
6. SEAM STRENGTH: ≥ 417 LBF. IN ACCORDANCE WITH ASTM D751 GRAB METHOD.
7. TEAR STRENGTH: ≥ 132 LBF. (MACHINE DIRECTION) AND ≥ 163 LBF. (CROSS MACHINE DIRECTION) IN ACCORDANCE WITH ASTM D751 PROCEDURE B.
8. LOW TEMPERATURE BEND: PASS AT -40 °F IN ACCORDANCE WITH ASTM D2136.
9. HEAT AGING: PASS AFTER BEING CONDITIONED FOR 56 DAYS IN OVEN MAINTAINED AT 176°F IN ACCORDANCE WITH ASTM D3045.
10. ACCELERATED AGING: PASS AFTER 10,000 HOURS OF TOTAL TEST TIME IN ACCORDANCE WITH ASTM G155.
11. DIMENSIONAL STABILITY: CHANGE OF -0.30% (MACHINE DIRECTION) AND -0.45% (CROSS MACHINE DIRECTION) IN ACCORDANCE WITH ASTM 1204.
12. WATER ABSORPTION: < 1.7% AT 158 °F FOR 168 HOURS IN ACCORDANCE WITH ASTM D570.
13. STATIC PUNCTURE RESISTANCE: ≥ 56 LBF. IN ACCORDANCE WITH ASTM D5602.
14. DYNAMIC PUNCTURE RESISTANCE: ≥ 14.7 FT-LBF. IN ACCORDANCE WITH ASTM D5635.
D. COOL ROOF RATING COUNCIL (CRRC) (MEMBRANE MUST BE LISTED ON THE CRRC WEBSITE):
1. SOLAR REFLECTANCE (INITIAL): ≥ 86%
2. SOLAR REFLECTANCE (3-YEAR AGED): ≥ 74%
3. THERMAL EMITTANCE (INITIAL): ≥ 89%
4. THERMAL EMITTANCE (3-YEAR AGED): ≥ 89%
5. SOLAR REFLECTANCE INDEX (SRI) (INITIAL): ≥ 108%
6. SOLAR REFLECTANCE INDEX (SRI) (3-YEAR AGED): ≥ 91%
E. INSULATION:
1. GENERAL REQUIREMENTS
a. INSTALL USING A MINIMUM OF TWO LAYERS.
b. CONFIGURATION AS INDICATED ON THE DRAWINGS.
2. DURO-GUARD® ISO II (GLASS REINFORCED FACER)
a. MIN. ASSEMBLY R-VALUE: R-25

0753 - ROOFING SYSTEM

1.4 SUBMITTALS
A. PRODUCT DATA SHEETS TO BE USED, WITH THE FOLLOWING INFORMATION INCLUDED:
1. PREPARATION INSTRUCTIONS AND RECOMMENDATIONS
2. STORAGE AND HANDLING REQUIREMENTS AND RECOMMENDATIONS
3. INSTALLATION METHODS
4. MAINTENANCE REQUIREMENTS
B. SUSTAINABILITY DOCUMENTATION:
1. NSF/ANSI STANDARD 347 CERTIFICATE
2. TYPE III PRODUCT-SPECIFIC ENVIRONMENTAL PRODUCT DECLARATION
C. SHOP DRAWINGS: INDICATE INSULATION PATTERN, OVERALL MEMBRANE LAYOUT, FIELD SEAM LOCATIONS, JOINT OR TERMINATION DETAIL CONDITIONS, AND LOCATION OF FASTENERS.
D. PROVIDE VERIFICATION SAMPLES FOR EACH PRODUCT SPECIFIED (TWO SAMPLES REPRESENTING EACH PRODUCT, COLOR AND FINISH):
1. 4-INCH BY 6-INCH SAMPLE OF ROOFING MEMBRANE, OF COLOR SPECIFIED.
2. 4-INCH BY 6-INCH SAMPLE OF WALKWAY PAD.
3. TERMINATION BAR, FASCIA BAR WITH COVER, DRIP EDGE, AND GRAVEL STOP IF TO BE USED.
4. EACH FASTENER TYPE TO BE USED FOR INSTALLING MEMBRANE, INSULATION/RECOVER BOARD, TERMINATION BAR AND EDGE DETAILS.
E. INSTALLER CERTIFICATION: CERTIFICATION FROM THE ROOFING SYSTEM MANUFACTURER THAT INSTALLER IS APPROVED, AUTHORIZED, OR LICENSED BY MANUFACTURER TO INSTALL ROOFING SYSTEM.
F. MANUFACTURER'S WARRANTIES.

1.5 QUALITY ASSURANCE

A. PERFORM WORK IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
B. MANUFACTURER QUALIFICATIONS: A MANUFACTURER SPECIALIZING IN THE PRODUCTION OF PVC MEMBRANES SYSTEMS AND UTILIZING A QUALITY CONTROL MANUAL DURING THE PRODUCTION OF THE MEMBRANE ROOFING SYSTEM THAT HAS BEEN APPROVED BY AND IS INSPECTED BY UNDERWRITERS LABORATORIES.
C. INSTALLER QUALIFICATIONS: COMPANY SPECIALIZING IN INSTALLATION OF ROOFING SYSTEMS SIMILAR TO THOSE SPECIFIED IN THIS PROJECT AND APPROVED BY THE ROOFING SYSTEM MANUFACTURER.
D. SOURCE LIMITATIONS: OBTAIN COMPONENTS FOR MEMBRANE ROOFING SYSTEM FROM ROOFING MEMBRANE MANUFACTURER.
E. THERE SHALL BE NO DEVIATIONS FROM THE ROOF MEMBRANE MANUFACTURER'S SPECIFICATIONS OR THE APPROVED SHOP DRAWINGS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE MANUFACTURER.

PART 2 PRODUCTS

2.1 MANUFACTURER

A. MANUFACTURER: DURO-LAST ROOFING, WHICH IS LOCATED AT: 525 MORLEY DRIVE, SAGINAW, MI TELEPHONE: 800-248-0280.
B. ALL ROOFING SYSTEM COMPONENTS TO BE PROVIDED OR APPROVED BY DURO-LAST ROOFING, INC.
C. SUBSTITUTIONS: NOT PERMITTED.

2.2 ROOFING SYSTEM COMPONENTS

A. ROOFING MEMBRANE:

1. PROPERTIES:
a. TYPE: DURO-LAST 50-MIL MEMBRANE (ROLL GOODS)
b. ROLL WIDTH: 60" (INSTALLED WIDTHS MAY VARY)
c. MEMBRANE COLOR: WHITE
d. ATTACHMENT TYPE: MECHANICALLY FASTENED
e. FASTENERS: DURO-LAST® HD SCREW (#14)
f. PLATES: DURO-LAST® CLEAT PLATE™
2. FEATURES:
a. ASTM D4434, TYPE III
b. FABRIC-REINFORCED, PVC, NSF/ANSI 347 GOLD OR PLATINUM CERTIFICATION, AND A PRODUCT-SPECIFIC THIRD-PARTY VERIFIED ENVIRONMENTAL PRODUCT DECLARATION.
c. MINIMUM RECYCLE CONTENT 7% POST-INDUSTRIAL AND 0% POST-CONSUMER.
d. RECYCLED AT END OF LIFE INTO RESILIENT FLOORING OR CONCRETE EXPANSION JOINTS.

B. INSULATION:

1. GENERAL REQUIREMENTS
a. PROVIDE PREFORMED ROOF INSULATION BOARDS THAT COMPLY WITH REQUIREMENTS AND REFERENCED STANDARDS, AS SELECTED FROM MANUFACTURER'S STANDARD SIZES.
b. PROVIDE PREFORMED SADDLES, CRICKETS, AND OTHER INSULATION SHAPES WHERE INDICATED FOR SLOPING TO DRAIN. FABRICATE TO SLOPES INDICATED.
c. PROVIDE ROOF INSULATION ACCESSORIES APPROVED BY THE ROOF MEMBRANE MANUFACTURER AND AS RECOMMENDED BY INSULATION MANUFACTURER FOR THE INTENDED USE.
2. COMPONENT:
a. PROPERTIES:
1. TYPE: DURO-GUARD® ISO II (GLASS REINFORCED FACER)
2. BOARD APPLICATION: FLAT STOCK
3. SIZE: 4' x 8'
4. METHOD: MIN. ASSEMBLY R-VALUE: PER BUILDING SECTIONS SHEET A3.1.
5. ATTACHMENT TYPE: MECHANICALLY FASTENED
6. FASTENERS: DURO-LAST® HD SCREW (#14)
7. PLATES: DURO-LAST® 3-INCH METAL PLATE
b. FEATURES:
1. CLOSED-CELL POLYISOCYANURATE FOAM CORE INSULATION BOARD.
2. COMPLYING WITH ASTM C1289, TYPE II, FELT OR GLASS-FIBER MAT FACER ON BOTH MAJOR SURFACES.
3. PROVIDE DURO-LAST FACTORY-COATED STEEL FASTENERS AND METAL OR PLASTIC PLATES MEETING CORROSION-RESISTANCE PROVISIONS IN FMG 4470, DESIGNED FOR FASTENING INSULATION AND/OR INSULATION COVER BOARDS IN CONFORMANCE TO SPECIFIED DESIGN REQUIREMENTS.

C. DECK TYPE:

1. PROPERTIES:
a. TYPE: OSB DECK (1/2 IN.)

D. ACCESSORY MATERIALS: PROVIDE ACCESSORY MATERIALS SUPPLIED BY OR APPROVED FOR USE BY DURO-LAST ROOFING, INC.:
1. SHEET FLASHING: MANUFACTURER'S STANDARD REINFORCED PVC SHEET FLASHING.
2. PREFAB FLASHINGS: MANUFACTURED USING STANDARD REINFORCED PVC MEMBRANE.
a. DURO-LAST® TWO-WAY AIR VENT
b. DURO-LAST® INSIDE AND OUTSIDE CORNERS
c. DURO-LAST® STACK FLASHING
d. DURO-LAST® CURB FLASHING
e. DURO-LAST® MATERIAL SCUPPERS
3. FASTENERS: FACTORY-COATED STEEL FASTENERS MEETING CORROSION-RESISTANCE PROVISIONS IN FMG 4470, DESIGNED FOR FASTENING MEMBRANE AND INSULATION TO SUBSTRATE. SUPPLIED BY DURO-LAST ROOFING, INC.
a. DURO-LAST® HD SCREW (#14)
4. PLATES: METAL OR PLASTIC PLATES MEETING CORROSION-RESISTANCE PROVISIONS IN FMG 4470, DESIGNED FOR FASTENING MEMBRANE AND INSULATION TO SUBSTRATE. SUPPLIED BY DURO-LAST ROOFING, INC.
a. DURO-LAST® CLEAT PLATE™
b. DURO-LAST® 3-INCH METAL PLATE
5. CAULK: COMPATIBLE WITH ROOFING SYSTEM AND SUPPLIED BY DURO-LAST ROOFING, INC.
a. DURO-CAULK® PLUS
6. METAL TERMINATION: SUPPLIED BY DURO-LAST ROOFING, INC.
a. UNIVERSAL 2-PIECE COMPRESSION SYSTEM
i. ANSI/SPRI ES-1 COMPLIANT WITH 3" TO 8" BASE AND COVER.
7. GUTTER AND DOWNSPOUT: SUPPLIED BY DURO-LAST ROOFING, INC.
a. DOWNSPOUT
b. CONDUCTOR HEAD

PART 3 EXECUTION

3.1 EXAMINATION

B. VERIFY THAT THE SURFACES AND SITE CONDITIONS ARE READY TO RECEIVE WORK.
C. VERIFY THAT THE DECK IS SUPPORTED AND SECURED.
D. VERIFY THAT THE DECK IS CLEAN AND SMOOTH, FREE OF DEPRESSIONS, WAVES, OR PROJECTIONS, AND PROPERLY SLOPED TO DRAINS, VALLEYS, EAVES, SCUPPERS OR GUTTERS.
E. VERIFY THAT THE DECK SURFACES ARE DRY AND FREE OF STANDING WATER, ICE OR SNOW.
F. VERIFY THAT ALL ROOF OPENINGS OR PENETRATIONS THROUGH THE ROOF ARE SOLIDLY SET.
G. IF SUBSTRATE PREPARATION IS THE RESPONSIBILITY OF ANOTHER CONTRACTOR, NOTIFY ARCHITECT OF UNSATISFACTORY PREPARATION BEFORE PROCEEDING.

3.2 PREPARATION

A. CLEAN SURFACES THOROUGHLY PRIOR TO INSTALLATION.
B. PREPARE SURFACES USING THE METHODS RECOMMENDED BY THE MANUFACTURER FOR ACHIEVING THE BEST RESULT FOR THE SUBSTRATE UNDER THE PROJECT CONDITIONS.
C. SURFACES SHALL BE CLEAN, SMOOTH, FREE OF FINS, SHARP EDGES, LOOSE AND FOREIGN MATERIAL, OIL, GREASE, AND BITUMEN.

3.3 INSTALLATION

A. INSULATION:
1. GENERAL REQUIREMENTS
a. INSTALL INSULATION IN ACCORDANCE WITH THE ROOF MANUFACTURER'S REQUIREMENTS.
b. INSULATION SHALL BE ADEQUATELY SUPPORTED TO SUSTAIN NORMAL FOOT TRAFFIC WITHOUT DAMAGE.
c. WHERE FIELD TRIMMED, INSULATION SHALL BE FITTED TIGHTLY AROUND ROOF PROTRUSIONS WITH NO GAPS GREATER THAN ¼ INCH.
d. TAPERED INSULATION BOARDS SHALL BE INSTALLED IN ACCORDANCE WITH THE INSULATION MANUFACTURER'S SHOP DRAWINGS.
e. NO MORE INSULATION SHALL BE APPLIED THAN CAN BE COVERED WITH THE ROOF MEMBRANE BY THE END OF THE DAY OR THE ONSET OF INCLEMENT WEATHER.
f. IF MORE THAN ONE LAYER OF INSULATION IS USED, ALL JOINTS BETWEEN SUBSEQUENT LAYERS SHALL BE OFFSET BY AT LEAST 6 INCHES.
2. DURO-GUARD® ISO II (GLASS REINFORCED FACER)
a. USE ONLY FASTENERS, STRESS PLATES AND FASTENING PATTERNS ACCEPTED FOR USE BY THE ROOF MANUFACTURER. FASTENING PATTERNS MUST MEET APPLICABLE DESIGN REQUIREMENTS.
b. INSTALL FASTENERS IN ACCORDANCE WITH THE ROOF MANUFACTURER'S REQUIREMENTS. FASTENERS THAT ARE IMPROPERLY INSTALLED MUST BE REPLACED OR CORRECTED.
c. INSTALL ALL LAYERS IN PARALLEL COURSES WITH END JOINTS STAGGERED 50% AND ADJACENT BOARDS BUTTED TOGETHER WITH NO GAPS GREATER THAN ¼ INCH.
B. ROOFING MEMBRANE:
1. GENERAL REQUIREMENTS
a. INSTALL MEMBRANE IN ACCORDANCE WITH THE ROOF MANUFACTURER'S REQUIREMENTS.
b. CUT MEMBRANE TO FIT NEATLY AROUND ALL PENETRATIONS AND ROOF PROJECTIONS.
2. DURO-LAST 50-MIL MEMBRANE (ROLL GOODS)
a. USE ONLY FASTENERS, STRESS PLATES AND FASTENING PATTERNS ACCEPTED FOR USE BY THE ROOF MANUFACTURER. FASTENING PATTERNS MUST MEET APPLICABLE DESIGN REQUIREMENTS.
b. INSTALL FASTENERS IN ACCORDANCE WITH THE ROOF MANUFACTURER'S REQUIREMENTS. FASTENERS THAT ARE IMPROPERLY INSTALLED MUST BE REPLACED OR CORRECTED.
c. MECHANICALLY FASTEN MEMBRANE TO THE STRUCTURAL DECK UTILIZING FASTENERS AND FASTENING PATTERNS IN ACCORDANCE WITH THE ROOF MANUFACTURER'S REQUIREMENTS.
C. WELD OVERLAPPING SHEETS TOGETHER USING HOT AIR. MINIMUM WELD WIDTH IS 1-1/2 INCHES.
D. CHECK FIELD WELDED SEAMS FOR CONTINUITY AND INTEGRITY AND REPAIR ALL IMPERFECTIONS BY THE END OF EACH WORK DAY.

REGISTRATION SEAL
FREDERICK J. GOGLIA
6408
4/16/25

FREDERICK J. GOGLIA
ARCHITECT, NCARB, RDI
1950 CRAIG ROAD, SUITE 300
PH (314) 415-2400 FAX (314) 415-2300
ST. LOUIS, MO 63146
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REV	DATE	DESCRIPTION	BY
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TITLE:
ARCHITECTURAL SPECIFICATIONS

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

KIOSK PROTOTYPE:
4.2 REVERSE PROTOTYPE
JUNE 2024
ISSUE DATE:
03/21/2024
PROJECT NO.
240761
DRAWN BY:
AGG
CHECKED BY:
SW

SHEET NO.
G0.5

ARCHITECTURAL SPECIFICATIONS - CONTINUED

0753 - ROOFING SYSTEM cont.

E: FLASHINGS: COMPLETE ALL FLASHINGS AND TERMINATIONS AS INDICATED ON THE DRAWINGS AND IN ACCORDANCE WITH THE MEMBRANE MANUFACTURER'S REQUIREMENTS.

1. PROVIDE SECUREMENT AT ALL MEMBRANE TERMINATIONS AT THE PERIMETER OF EACH ROOF LEVEL, ROOF SECTION, CURB FLASHING, SKYLIGHT, EXPANSION JOINT, INTERIOR WALL, PENTHOUSE, AND OTHER SIMILAR CONDITION.
   a. DO NOT APPLY FLASHING OVER EXISTING THRU-WALL FLASHINGS OR WEEP HOLES.
   b. SECURE FLASHING ON A VERTICAL SURFACE BEFORE THE SEAM BETWEEN THE FLASHING AND THE MAIN ROOF SHEET IS COMPLETED.
   c. EXTEND FLASHING MEMBRANE A MINIMUM OF 6 INCHES (152 MM) ONTO THE MAIN ROOF SHEET BEYOND THE MECHANICAL SECUREMENT.
   d. USE CARE TO ENSURE THAT THE FLASHING DOES NOT BRIDGE LOCATIONS WHERE THERE IS A CHANGE IN DIRECTION (E.G. WHERE THE PARAPET MEETS THE ROOF DECK).

2. PENETRATIONS:
   a. FLASH ALL PIPES, SUPPORTS, SOIL STACKS, COLD VENTS, AND OTHER PENETRATIONS PASSING THROUGH THE ROOFING MEMBRANE AS INDICATED ON THE DRAWINGS AND IN ACCORDANCE WITH THE MEMBRANE MANUFACTURER'S REQUIREMENTS.
   b. UTILIZE CUSTOM PREFABRICATED FLASHINGS SUPPLIED BY THE MEMBRANE MANUFACTURER.
   c. EXISTING FLASHINGS: REMOVE WHEN NECESSARY TO ALLOW NEW FLASHING TO TERMINATE DIRECTLY TO THE PENETRATION.

3. PIPE CLUSTERS AND UNUSUAL SHAPES:
   a. CLUSTERS OF PIPES OR OTHER PENETRATIONS WHICH CANNOT BE SEALED WITH PREFABRICATED MEMBRANE FLASHINGS SHALL BE SEALED BY SURROUNDING THEM WITH A PREFABRICATED VINYL-COATED METAL PITCH PAN AND SEALANT SUPPLIED BY THE MEMBRANE MANUFACTURER.
   b. VINYL-COATED METAL PITCH PANS SHALL BE INSTALLED, FLASHED AND FILLED WITH SEALANT IN ACCORDANCE WITH THE MEMBRANE MANUFACTURER'S REQUIREMENTS.
   c. PITCH PANS SHALL NOT BE USED WHERE PREFABRICATED OR FIELD FABRICATED FLASHINGS ARE POSSIBLE.

F. ROOF DRAINS: COORDINATE INSTALLATION OF ROOF DRAINS AND VENTS.

1. DRAIN ASSEMBLIES WITH CLAMPING RINGS:
   a. REMOVE EXISTING ROOFING SYSTEM MATERIALS FROM DRAIN BOWL AND CLAMPING RING.
   b. THE MEMBRANE MUST EXTEND BEYOND THE INSIDE OF THE CLAMPING RING.
   c. USE A MANUFACTURER SUPPLIED OR APPROVED SEALANT (1/2 TUBE MINIMUM) BETWEEN THE MEMBRANE AND DRAIN BOWL ASSEMBLY.
   d. AFTER THE MEMBRANE IS PROPERLY INSTALLED ONTO THE BOWL AND THE CLAMPING RING SET IN PLACE, ALL BOLTS SECURING THE RING MUST BE INSTALLED TO PROVIDE CONSTANT, EVEN COMPRESSION ON THE SEALANT. IF BOLTS ARE BROKEN OR MISSING, REPLACEMENTS MUST BE INSTALLED.

2. DRAIN BOOTS:
   a. REMOVE EXISTING FLASHING AND ASPHALT AT EXISTING DRAINS IN PREPARATION FOR SEALANT AND MEMBRANE.
   b. USE A MANUFACTURER SUPPLIED OR APPROVED SEALANT (1/2 TUBE MINIMUM) TO THE OUTSIDE OF THE DRAIN BOOT AND INSERT IT INTO THE DRAIN.
   c. FASTEN MEMBRANE AROUND THE PERIMETER OF THE DRAIN WITH THE SAME FASTENING PATTERN AS THE FIELD MEMBRANE, NO LESS THAN 1 FASTENER PER DRAIN.
   d. INSTALL A PAIR OF COMPOSITE DRAIN RINGS (CDRS) TO COMPRESS THE BOOT TO THE PIPE. ENSURE THE CDR OPENINGS FACE IN OPPOSITE DIRECTIONS.
   e. SECURE THE MANUFACTURER'S DRAIN GUARD OVER THE OPENING BY HEAT WELDING THE ATTACHMENT TABS TO THE ROOF MEMBRANE.

G. EDGE DETAILS:

1. PROVIDE EDGE DETAILS AS INDICATED ON THE DRAWINGS. INSTALL IN ACCORDANCE WITH THE MEMBRANE MANUFACTURER'S REQUIREMENTS.
2. JOIN INDIVIDUAL SECTIONS IN ACCORDANCE WITH THE MEMBRANE MANUFACTURER'S REQUIREMENTS.
3. COORDINATE INSTALLATION OF METAL FLASHING AND COUNTER FLASHING.
4. MANUFACTURED ROOF SPECIALTIES: COORDINATE INSTALLATION OF COPINGS, COUNTER FLASHING SYSTEMS, GUTTERS, DOWNSPOUTS, AND ROOF EXPANSION ASSEMBLIES.

H. WALKWAYS:

1. INSTALL WALKWAYS IN ACCORDANCE WITH THE MEMBRANE MANUFACTURER'S REQUIREMENTS.
2. PROVIDE WALKWAYS WHERE INDICATED ON THE DRAWINGS.
3. INSTALL WALKWAY PADS AT ROOF HATCHES, ACCESS DOORS, ROOFTOP LADDERS AND ALL OTHER TRAFFIC CONCENTRATION POINTS REGARDLESS OF TRAFFIC FREQUENCY. PROVIDED IN AREAS RECEIVING REGULAR TRAFFIC TO SERVICE ROOFTOP UNITS OR WHERE A PASSAGEWAY OVER THE SURFACE IS REQUIRED.
4. DO NOT INSTALL WALKWAYS OVER FLASHINGS OR FIELD SEAMS UNTIL MANUFACTURER'S WARRANTY INSPECTION HAS BEEN COMPLETED.

0753 - ROOFING SYSTEM cont.

I. WATER CUT-OFFS:

1. PROVIDE WATER CUT-OFFS ON A DAILY BASIS AT THE COMPLETION OF WORK AND AT THE ONSET OF INCLEMENT WEATHER.
2. PROVIDE WATER CUT-OFFS TO ENSURE THAT WATER DOES NOT FLOW BENEATH THE COMPLETED SECTIONS OF THE NEW ROOFING SYSTEM.
3. REMOVE WATER CUT-OFFS PRIOR TO THE RESUMPTION OF WORK.
4. THE INTEGRITY OF THE WATER CUT-OFF IS THE SOLE RESPONSIBILITY OF THE ROOFING CONTRACTOR.
5. ANY MEMBRANE CONTAMINATED BY THE CUT-OFF MATERIAL SHALL BE CLEANED OR REMOVED.

3.4 FIELD QUALITY CONTROL
A. THE MEMBRANE MANUFACTURER'S REPRESENTATIVE SHALL PROVIDE A COMPREHENSIVE FINAL INSPECTION AFTER COMPLETION OF THE ROOF SYSTEM. ALL APPLICATION ERRORS SHALL BE ADDRESSED AND FINAL PUNCH LIST COMPLETED.

3.5 PROTECTION
A. PROTECT INSTALLED ROOFING PRODUCTS FROM CONSTRUCTION OPERATIONS UNTIL COMPLETION OF PROJECT.
B. WHERE TRAFFIC IS ANTICIPATED OVER COMPLETED ROOFING MEMBRANE, PROTECT FROM DAMAGE USING DURABLE MATERIALS THAT ARE COMPATIBLE WITH MEMBRANE.
C. REPAIR OR REPLACE DAMAGED PRODUCTS AFTER WORK IS COMPLETED.

0760 - FLASHING & SHEET METAL

A. GENERAL: PROVIDE FLASHING AND SHEET METAL, REGLETS, AND ACCESSORIES AS REQUIRED FOR ROOF REPAIRS AS REQUIRED FOR COMPLETE, WEATHERTIGHT INSTALLATION.
B. STANDARDS: CONFORM TO SMACNA "ARCHITECTURAL SHEET METAL MANUAL" REQUIREMENTS FOR FLASING AND SHEET METAL.
C. DESIGN REQUIREMENTS: ALLOW FOR MOVEMENT OF COMPONENTS WITHOUT CAUSING BUCKLING, FAILURE OF JOINT SEALS, UNDUE STRESS OF FASTENERS OR OTHER DETRIMENTAL EFFECTS WHEN SUBJECT TO 100 YEAR SEASONAL TEMPERATURE RANGES.
D. SUBMITTALS: FURNISH PRODUCT DATA FOR MANUFACTURED PRODUCTS.
E. WARRANTY: CORRECT FAILURE OF METAL FLASHING SYSTEM TO RESIST PENETRATION OF WATER AND DAMAGE FROM WIND; WARRANTY PERIOD TWO YEARS.
F. FLASHING AND SHEET METAL: MATCH EXISTING, BUT NOT LESS THAN FLLOWING:
   1. GALVANIZED METAL FLASHING: ASTM A526 GALVANIZED STEEL WITH MINIMUM 0.02 COOPER, AND WITH MINIMUM G90 GALVANIZED COATING; MINIMUM 20 GAGE.
   2. PREFINISHED METAL FLASHING: 20 GAGE GALVANIZED STEEL WITH FACTORY FINISHED KYNAR 500 TYPE FLUOROPOLYMER COATING AND STIPPABLE PROTECTIVE FILM; COLOR AS SELECTED FROM MANUFACTURER'S FULL RANGE OF COLORS.
   3. ALUMINUM FLASHING: ASTM B209, ALLOY AS REQUIRED TO MATCH FINISH SPECIFIED FOR OTHER ALUMINUM COMPONENTS; THICKNESS MINIMUM 0.050" SOFT TEMPER.
   4. STAINLESS STEEL SHEET METAL; ASTM A666, 2D ANNEALED FINISH, SOFT TEMPER EXCEPT WHERE HARDER TEMPER IS REQUIRED FOR FORMING OR PERFORMANCE; 0,050" (28 GAGE) TYPICAL.
   5. COPPER SHEET METAL: ASTM B370, COLD ROLLED 16OZ. (0.0216") THICK; SOFT TEMPER WHERE REQUIRED FOR FORMING.
G. REGLETS: FRY/SPRINGLOK OR MM SYSTEM/SNAP-TITE REGLETS; FABRICATE OF SAME METAL AS ADJACENT FLASHING AND SHEET METAL.
H. METAL TO METAL SEALANT: BUTYL TYPE; NOT-STAINING, NON-CORROSIVE, NON-SHRINKING, NON-SAGGING, UNTRA-VIOLET AND OZONE RESISTANT.
I. INSTALLATION: COMPLY WITH SMACNA MANUAL.
   1. INSTALL METAL FLASHING AND SHEET METAL IN ACCORDANCE WITH SMACNA ARCHITECTURAL SHEET METAL MANUAL; TIGHT IN PLACE, WITH CORNERS SQUARE, SURFACES TRUE AND STRAIGHT IN PLANES, AND LINES ACCURATE TO PROFILES AS INDICATED ON DRAWINGS.
   2. INSTALL SEALANTS WHERE REQUIRED TO PREVENT DIRECT WEATHER PENETRATION.
   3. COMPLETE INSTALLATION SHALL BE FREE OF RATTLES, NOISE DUE TO THERMAL AND AIR MOVEMENT AND WIND WHISTLES.

0790 -CAULKING & SEALANTS

A. DESCRIPTION:
   1.1. WORK INCLUDED: SUPPLY AND INSTALL ALL CAULKING AND SEALANTS WORK AS SHOWN ON DRAWINGS AND SPECIFIED HEREIN. THIS SHALL INCLUDE, BUT NOT IS LIMITED TO, THE FOLLOWING:
      a. ALUMINUM ENTRANCE SYSTEM & WINDOWS-SPECIFIED UNDER SECTION 0815 ALUMINUM ENTRANCE SYSTEM.
      b. TOILET FIXTURES: CAULK BY PLUMBING CONTRACTOR, COLOR- WHITE.
      c. WATER OR WASTE PENETRATIONS: CAULK BY PLUMBING CONTRACTOR, COLOR- WHITE
      d. COMPRESSION CUP MAY BE PROVIDED IN LIEU OF CAULK.
      e. TILE CORNERS CAULK BY GENERAL CONTRACTOR, COLOR - TBD
      f. TILE AT COOLER WALLS: CAULK BY GENERAL CONTRACTOR, COLOR -TBD
      g. TILE AT CEILING GRID: CAULK BY GENERAL CONTRACTOR, COLOR- TBD
      h. VANITY TOPS & WAITRESS STATION: CAULK BY GENERAL CONTRACTOR, COLOR- CLEAR.
      i. PAPER TOWEL DISPENSER: CAULK BY GENERAL CONTRACTOR, COLOR- CLEAR.
      j. HOLLOW METAL DOORS: CAULK BY GENERAL CONTRACTOR, COLOR- CLEAR
      k. HOOD WALLS: CAULK BY GENERAL CONTRACTOR, COLOR- TBD
      l. PASS THRU: CAULK BY GENERAL CONTRACTOR, COLOR- TBD
      m. EXTERIOR SEALANTS: SEALANT BY GENERAL CONTRACTOR, COLOR - TBD

0790 -CAULKING & SEALANTS cont.

B. MATERIALS
   1.1. GENERAL INTERIOR CAULK: ONE PART ACRYLIC LATEX CAULK. 90% SOLIDS MINIMUM. USE AS RECOMMENDED BY MANUFACTURER (AS GENERAL PURPOSE INTERIOR SEALANT). ACCEPTABLE MANUFACTURER: DOW CORNING.
   1.2. JOINT BACKING: COMPRESSIBLE ROD OF MATERIAL AS RECOMMENDED BY SEALANT MANUFACTURER FOR JOINT TYPES AND WIDTHS INDICATED ON CONSTRUCTION DRAWINGS.
   1.3. JOINT CLEANER, SEALERS, AND PRIMER SHALL BE USED AS RECOMMENDED BY MANUFACTURER.

C. INSTALLATION

   1.1. JOINT BACKING MATERIAL SHALL BE A WIDTH GREATER THAN THE JOINT, AS RECOMMENDED BY THE MANUFACTURER, TO GUARANTEE A TIGHT FIT WHEN FORCED INTO PLACE.
   1.2 APPLY MATERIALS IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS: OBSERVE MANUFACTURER'S REQUIREMENTS REGARDING TEMPERATURE CONTROL, USABILITY OF MATERIALS, AND PROTECTION OF ADJACENT SURFACES.
   1.1. MAKING SEALING SURFACE SLIGHTLY CONCAVE FREE OF WRINKLES AND SKIPS: UNIFORMLY SMOOTH AND WITH PERFECT ADHESION ALONG BOTH SIDES OF JOINT. PROTECT ADJACENT SURFACES FROM EXCESS MATERIALS LEAVE JOINTS IN A CLEAN NEAT CONDITION. DEFECTIVE JOINTS SHALL BE REMOVED, CLEANED AND REPLACED AT NO ADDITIONAL COST TO THE OWNER.SET THRESHOLDS IN FULL BED OF CAULKING AND ANCHOR WITH EXPANSION ANCHORS.

0810 HOLLOW METAL DOORS & FRAMES

A. DESCRIPTION
   1.1. REFER TO DOOR SCHEDULE FOR LOCATIONS AND TYPES OF DOORS REQUIRED.
B. PRODUCTS
   1.1. HOLLOW METAL FRAMES- GENERAL
      a. COLD ROLLED 18 GAUGE LABELED FRAMES WHERE REQUIRED.
      b. FRAMES SHALL RECEIVE TWO COATS OF RUST INHIBITIVE PRIMER. PROVIDE THREE (3) RUBBER BUMPERS AT EACH DOOR.
      c. ALL FRAMES TO BE WELDED HOLLOW METAL.
      d. APPROVED MANUFACTURERS: STEELCRAFT, CECO, TRUSSBILT, AMWELD, AND FENESTRA
   1.2 HOLLOW METAL FRAMES - WELDED (INTERIOR & EXTERIOR)
      a. SAW MITER AND CONTINUOUSLY WELD CORNER JOINTS FOR FULL JAMB DEPTH AND WIDTH OF FRAME AND TRIM. CONTACT EDGES SHALL BE CLOSED TIGHT WELDS ON EXPOSED SURFACES DRESSED SMOOTH AND FLUSH. PRIME COAT PAINT.
      b. PROVIDE CHAMBER AT HINGE CUTOUTS TO ALLOW ATTACHMENT OF HINGES AFTER FRAME IS FILLED WITH GROUT.
1.3 HOLLOW METAL DOORS
      a. DOORS SHALL BE FLUSH DESIGN, OF SIZE INDICATED ON DOOR SCHEDULE
      b. CORE SHALL CONSIST OF STRUCTURAL HONEYCOMB OR SOLID POLYSTYRENE CORE BANDED TO BOTH FACES.
      c. APPROVED MANUFACTURERS: STEELCRAFT, CECO, TRUSSBILT, AMWELD, AND FENESTRA
C. INSTALLATION
1.1. FRAMES, WHICH ARE SCHEDULED FOR LABEL CONSTRUCTION, SHALL BE INSTALLED USING UL-APPROVED ANCHORING. FRAMES SHALL BE PROPERLY PREPARED TO RECEIVE UL-APPROVED HARDWARE AND SHALL HAVE PROPER LABEL ATTACHED AT THE FACTORY.
1.2. ALL FRAMES SHALL BE COMPLETED WITH JAMB ANCHORS FOR ATTACHING TO MASONRY WALLS, OR OTHER ANCHORS, AS REQUIRED BY THE PARTICULAR INSTALLATION.
1.3. AT THE TIME OF INSTALLATION, THE DOOR JAMBS SHOULD BE HELD ½ " OFF THE EXISTING CONCRETE FLOOR, BEFORE FLOOR TILE IS INSTALLED.
1.4. INSTALL ALL HOLLOW METAL DOORS AND FRAMES ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
1.5. FILL ALL WELDED FRAMES WITH MORTAR.

0815 ALUMINUM WINDOW SYSTEMS

A. DESCRIPTION
   1.1. FURNISH AND INSTALL ALL GLAZING, GLASS AND DOOR FRAMES, BARRIER BARS, AND EXTERIOR WINDOW WALL SYSTEM, INCLUDING ALL HARDWARE, ACCESSORIES, AND CAULKING, REQUIRED FOR A COMPLETE WATERTIGHT INSTALLATION AS DETAILED ON THE DRAWINGS AND HEREINAFTER SPECIFIED.
B. PRODUCTS
   1.1. ALUMINUM COMPONENTS: 22,000 PSI PER ULTIMATE TENSILE STRENGTH ALLOY, NOT LESS THAN 0.125 " WALL THICKNESS. 1-3/4 " X 4.5" FRAME SIZE.
   1.2. FASTENING: ALUMINUM, STAINLESS STEEL OR CADMIUM PLATED CARBON STEEL.
   1.3. WEATHERSTOP DOOR OPENINGS WITH BLACK PLOY-PILE WEATHER-STRIPPING.
   1.4. GLASS STOPS: WITHOUT VISIBLE FASTENINGS SNAP-IN TYPE BLACK, FOR PUTTY LESS GLAZING.
   1.5. HARDWARE: REFER TO DOCUMENTS
   1.6. FINISH: REFER TO DOCUMENTS
   1.7. DOORS TO BE MEDIUM STILE TO MEET APPLICABLE AAMA REQUIREMENTS CONCERNING SILLS AND STRENGTHS.
   1.8. CAULKING COLOR TO MATCH FRAME.
   1.9. MANUFACTURERS:
     a. DOORS AND FRAMES: KAWNEER OR VISTAWALL.
C. INSTALLATION
   1.1. FABRICATE AND INSTALL EXTERIOR UNITS TO WITHSTAND WIND PRESSURE LOAD OF 26 POUNDS PER SQUARE FOOT OVER ENTIRE FRAME, AND PANEL AREA, ACTING INWARD AND OUTWARD.

0850 - PASS-THRU WINDOW

MANUAL OPERATED, SELF-CLOSING, BI-PARTING PASS-THRU WINDOW IN ANODIZED ALUMINUM FRAME. PRE-GLAZED WINDOW, SEE EXTERIOR ELEVATION AND DOOR AND WINDOW SCHEDULE FOR ADDITION INFORMATION. UNIT AS MANUFACTURED BY:

QUICKSERV CORP
P.O. BOX 40466
HOUSTON, TX 77240
CONTACT: WADE ARNOLD

0870 FINISH HARDWARE

A. DESCRIPTION
   1.1. INSTALL ALL FINISH HARDWARE ON DOORS INDICATED ON DOOR SCHEDULE.
   1.2. COORDINATION: HARDWARE TEMPLATES AND SCHEDULES SHALL BE SENT TO HOLLOW METAL MILLWORK WOOD DOOR SUPPLIER TO COORDINATE THE NECESSARY PREPARATION.
B. PRODUCTS
   1.1. ALL HARDWARE TO MEET REQUIREMENTS LISTED IN THE DOOR SCHEDULE UNLESS OTHERWISE NOTED.
   1.2. ALL ALUMINUM ENTRANCE SYSTEM HARDWARE ROLLING GRILLES & OVERHEAD FIRE DOORS & SHUTTER HARDWARE IS BY MANUFACTURER.
C. INSTALLATION
   1.1. MOUNT ALL HARDWARE UNITS AT HEIGHTS RECOMMENDED IN "RECOMMEND LOCATIONS FOR BUILDERS HARDWARE" BY NBHA, EXCEPT AS OTHERWISE SPECIFICALLY INDICATED OR REQUIRED TO COMPLY WITH GOVERNING HANDICAPPED REGULATIONS. THESE SHALL BE AS FOLLOWS:
      a. LOCK SETS AND LATCH SETS- 40"
      b. EXIT DEVICE CROSSBAR- 37"
      c. CENTER OF DOOR PULL- 42"
      d. CENTER OF PUSH PLATE- 48"
      e. DEADLOCK- 60"
1.2 INSTALL HARDWARE ITEMS COMPLYING WITH MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. REMOVE HARDWARE FROM SURFACES TO BE FINISHED AFTER INSTALLATION AND STORE UNTIL SURFACE FINISH IS APPLIED; THEN REINSTALL.
1.3 ADJUST EACH OPERATING ITEM OF HARDWARE TO INSURE PROPER OPERATION OF FUNCTION OF UNIT.
1.4 LUBRICATE MOVING PARTS AS RECOMMENDED BY MANUFACTURER.
1.5 INSTALL ALL WEATHER-STRIPPING IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS. FIT WEATHER-STRIPPING TIGHTLY AT CORNERS TO MAINTAIN CONTINUITY AROUND PERIPHERY OF DOOR.
1.6 CLEAN HARDWARE AS RECOMMENDED BY MANUFACTURER.

0880 GLASS & GLAZING

A. DESCRIPTION
   1.1. FURNISH AND INSTALL ALL GLASS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN.
B. MATERIALS
   1.1. GLAZING COMPOUND:
      a. (TT-P-781), TYPE 1 OR TYPE 2 MINIMUM AND ACCESSORIES SUCH AS POINTS, SETTING BLOCKS, SHIMS, STOP BEADS, ANGLES, WIRING SPRING CLIPS SHALL BE THE TYPE RECOMMENDED BY THE GLASS MANUFACTURER.
C. TYPES:
   1.1. 5/8 " TEMPERED INSULATING GLASS IN EXTERIOR ALUMINUM DOORS.
   1.2. 1" TEMPERED INSULATING GLASS @ EXTERIOR LOCATIONS.
   1.3. 1/4" TEMPERED GLASS @ INTERIOR LOCATIONS.
   1.4. PROVIDE 35% DUAL REFLECTIVE WINDOW FILM ON 2ND SURFACE (INSIDE).
D. INSTALLATION
   1.1. PERFORM ALL GLAZING WORK IN ACCORDANCE WITH THE MINIMUM STANDARDS OF THE FLAT GLASS JOBBERS ASSOCIATION (FGJA) GLAZING MANUAL.
   1.2. ALL GLASS FACTORY LABELED ON EACH PANE. DIMENSIONS SHOWN ON DRAWINGS ARE GIVEN ONLY AS A GUIDE FOR ESTIMATING PURPOSES, AND ACTUAL SIZE SHALL BE DETERMINED BY MEASUREMENT OF THE ACTUAL OPENINGS. GLASS SHALL BE ACCURATELY CUT TO FIT THESE OPENINGS.
   1.3. INSPECT WINDOWS AND OTHER FRAMES TO DETERMINE THAT THE FRAMES, SASH AND STOPS ARE SET TRUE AND STRAIGHT. SASH RABBETS AND STOPS SHALL BE CLEAN AND DRY AT THE TIME OF GLAZING. BEFORE GLAZING METAL SASH REMOVE ANY OIL, LACQUER, OR OTHER MATERIAL TO WHICH THE COMPOUND WILL NOT READILY ADHERE OR WHICH WILL TEND TO DELAMINATE FROM THE METAL AND CAUSE A LEAK THROUGH THE GLAZING SEAL.

0925 GYPSUM DRYWALL

A. DESCRIPTION
   1.1. PROVIDE ALL LABOR AND MATERIALS NECESSARY TO COMPLETE THE INSTALLATION OF THE GYPSUM WALLBOARD AND METAL STUD FRAMING SYSTEM INDICATED.
   1.2. COMPLY WITH ALL APPLICABLE REQUIREMENTS OF "AMERICAN STANDARDS SPECIFICATION FOR THE APPLICATION AND FINISHING OF GYPSUM WALLBOARD" BY THE AMERICAN STANDARDS ASSOCIATION, EXCEPT WHERE MORE STRINGENT REQUIREMENTS ARE CALLED FOR HEREIN, IN LOCAL CODES, OR BY MANUFACTURER OF WALLBOARD.
   1.3. MAINTAIN TEMPERATURE OF DRYWALL SPACE IN RANGE OF 55 DEGREES TO 90 DEGREES F. UNTIL BUILDING IS ENTIRELY CLOSED AND VENTILATED, AS REQUIRED TO ELIMINATE EXCESSIVE MOISTURE BUILD UP IN THE BUILDING.
B. PRODUCTS
   1.1. METAL FRAMING SYSTEM
      a. RUNNER: MINIMUM 20 GAUGE EXTERIOR WALL GALVANIZED STEEL WITH LEGS NOT LESS THAN ONE INCH HIGH, SLIGHTLY BENT IN TO HOLD THE STUDS BY FRICTION.
      b. STUDS: 20 GAUGE 6", 3-5/8", 2-1/2", AND 1-1/2" PUNCHED, SCREW-TYPE, MINIMUM ASTM C645. HOT DIPPED STEEL OR ELECTRO-GALVANIZED STEEL, WITH FLANGES NOT LESS THAN 1-1/4" SIDE. STUD DEPTH SHALL BE AS REQUIRED FOR WALL-FINISHED THICKNESS ON DRAWINGS.
      c. FURRING CHANNELS: ASTM C 645, 22 GAUGE, HAT SHAPED.
      d. MANUFACTURERS: CELOTEX,FLINTKOTE, JOHNS-MANVILLE, KAISER, NATIONAL GYPSUM, US GYPSUM, WHELLING CORRUGATING CO.
   2.1. GYPSUM WALLBOARD
      a. GYPSUM WALLBOARD: USE 5/8" TYPE X THROUGHOUT, UNLESS OTHERWISE INDICATED.
      b. MOISTURE RESISTANT WALLBOARD: USE 5/8" ON ALL WET WALLS IN RESTROOMS, UTILITY, AND KITCHEN.
      c. HARDWARE AND ACCESSORIES REQUIRED FOR COMPLETE INSTALLATION TO BE PROVIDED BY THE CONTRACTOR INCLUDING THE FOLLOWING:
      d. CORNER BEAD, "L" TYPE METAL TRIM AT EXPOSED DRYWALL EDGES AND WHERE DRYWALL ABUTS DISSIMILAR CONSTRUCTION.
      e. RESILIENT CHANNELS AND FURRING CHANNELS AS REQUIRED.
      f. JOINT FINISHING MATERIALS TO BE MANUFACTURER'S BEST-RECOMMENDED MATERIALS FOR A THREE COMPOUND TREATMENT.
      g. APPROVED DRYWALL MANUFACTURERS: CELOTEX, FLINTKOTE, GEORGIA-PACIFIC, JOHNS-MANVILLE, KAISER GYPSUM, NATIONAL GYPSUM, US GYPSUM.
C. INSTALLATION
   1.1. FRAMING: ANCHORAGE RUNNER SHALL BE ALIGNED ACCURATELY AT FLOOR AND CEILING AND SECURELY ANCHORED APPROXIMATELY TWO (2) INCHES FROM THE RUNNER ENDS. FLOOR RUNNER AND CEILING RUNNER SHALL BE SECURED MAXIMUM 24" O.C.

   1.2 TAPING & FINISHING
      a. MIX JOINT AND FINISHING COMPOUND PER MANUFACTURER'S DIRECTIONS.
      b. CENTER TAPE OVER JOINT AND EMBED IN UNIFORM LAYER OF JOINT COMPOUND OF SUFFICIENT WIDTH AND DEPTH TO PROVIDE FIRM AND COMPLETE BOND. APPLY SKIN COAT OVER EMBEDDED TAPE.
      c. TREAT ANGLES WITH REINFORCING TAPE FOLDED TO CONFORM TO ADJACENT SURFACES AND STRAIGHT TRUE ANGLES.
      d. ALLOW COMPOUND TO THOROUGHLY DRY FOR AT LEAST 24 HOURS.
      e. OVER JOINT COMPOUND AND TAPE, APPLY COAT OF FINISHING COMPOUND. SPREAD EVENLY AND FEATHER OUT BEYOND EDGE OF BOARD. AFTER FIRST FINISHING COAT IS THOROUGHLY DRY (AT LEAST 24 HOURS), COVER WITH SECOND COAT, WITH EDGES FEATHERED OUT SLIGHTLY BEYOND PRECEDING COAT.
      f. GIVE ALL DIMPLES AT FASTENER HEADS, AND ALL MARRED SPOTS ON SURFACE OF BOARD, ONE COAT JOINT COMPOUND AND TWO COATS FINISHING COMPOUND APPLIED, AS EACH COAT IS APPLIED TO JOINTS.
      g. INSTALL METAL CORNER REINFORCEMENT AT ALL EXTERNAL CORNERS, EXCEPT ENDS OF HOOD WALL. CONCEAL FLANGES OR METAL REINFORCEMENT WITH AT LEAST TWO COATS OF COMPOUND. WHEN COMPLETED COMPOUND SHALL EXTEND APPROXIMATELY 8 INCHES TO 10 INCHES ON EACH SIDE OF METAL NOSING.
      h. AFTER EACH APPLICATION OF JOINT OR FINISHING COMPOUND HAS DRIED, LIGHTLY SAND ALL JOINTS. LEAVE ALL BOARD AND TREATED AREAS UNIFORMLY SMOOTH AND READY FOR TEXTURING. DO NOT ROUGH PAPER.

0950 ACOUSTICAL TREATMENT

A. GENERAL: PROVIDE ACOUSTICAL CEILINGS INCLUDING SUSPENSION SYSTEM, TRIM AND ACCESSORIES AS REQUIRED FOR COMPLETE FINISHED INSTALLATION.
B. STANDARDS: CONFORM TO ASTM C635 FOR METAL SUSPENSION SYSTEM AND ASTM C636 FOR INSTALLATION OF ACOUSTICAL CEILINGS.
C. PERFORMANCE REQUIREMENTS: PROVIDE PRODUCTS LISTED BY UNDERWRITERS LABORATORIES (UL)
   1. FLAME SPREAD/ MODE DENSITY: PROVIDE PRODUCTS MEETING CODE REQUIREMENTS FOR MAXIMUM 25 FLAME SPREAD AND SMOKE DEVELOPED INDEX 50 OR LESS.
D. SEISMIC REQUIREMENTS: COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS FOR SEISMIC BRACING OF CEILING SUSPENSION SYSTEM, AND WITH ASTM E580.
E. SUBMITTALS: SUBMIT PRODUCT DATA, SHOP DRAWINGS INDICATION LAYOUT, AND SAMPLES OF GRID, TRIM AND CEILING UNITS.
F. INSTALLER: FIRM WITH MINIMUM THREE YEARS SUCCESSFUL EXPERIENCE IN PROJECTS OF SIMILAR TYPE AND SCOPE: ACCEPTANCE TO MANUFACTURER OF ACOUSTICAL UNITS.

0950 ACOUSTICAL TREATMENT cont.

G. PROJECT CONDITION: DO NOT INSTALL CEILING UNTIL BUILDING IS ENCLOSED, SUFFICIENT HEAT IS PROVIDED, DUST GENERATING ACTIVITIES HAVE TERMINATED AND OVERHEAD MECHANICAL WORK IS COMPLETED, TESTED AND APPROVED: ALLOW WET WORK TO DRY PRIOR TO INSTALLATION.
H. ACOUSTICAL UNITS: TYPES AND MANUFACTURERS AS INDICTED ON DRAWINGS.
I. SUSPENSION SYSTEM: AS INDICTED ON DRAWINGS.
J. PREPARATION: MEASURE CEILING AREA AND ESTABLISH LAYOUT OF ACOUSTICAL UNITS TO BALANCE PROPER WIDTHS AT OPPOSITE EDGES OF EACH CEILING: DO NOT USE LESS THAN HALF WIDTH UNITS AT BORDERS.
   1. COORDINATE WITH OTHER WORK SUPPORTED BY OR PENETRATING THROUGH CEILINGS, INCLUDING LIGHT FIXTURES, HVAC EQUIPMENT AND PARTITIONS SYSTEMS.
K. INSTALLATION: COMPLY WITH MANUFACTURER RECOMMENDATIONS, ASTM C636, AND APPLICABLE REQUIREMENTS FOR FIRE RATINGS.
1. FINISHED CEILINGS: TRUE TO LINES AND LEVELS AND FREE FROM WARPED, SOILED OR DAMAGED GRID OR ACOUSTICAL UNITS.
   2. INSTALL CEILING SYSTEMS IN A MANNER CAPABLE OF SUPPORTING SUPERIMPOSED LOADS, WITH MAXIMIM PERMISSIBLE DEFLECTION OF 1/8" IN 10'-0".
   3. ENSURE SUSPENSION SYSTEM IS LOCATED TO ACCOMMODATE FITTINGS AND UNITS OF EQUIPMENT WHICH IS TO BE PLACED AFTER INSTALLATION OF CEILING GRID.
   4. WHERE DUCTS OR OTHER EQUIPMENT PREVENT REGULAR SPACING OF HANGERS, REINFORCE NEAREST ADJACENT HANGERS AND RELATED CARRYING CHANNELS AS REQUIRED TO SPAN REQUIRED DISTANCE.
   5. INSTALL EDGE MOLDINGS AT INTERSECTION OF CELING AND VERTICAL SURFACES, USING MAXIMUM LENGTHS, STRAIGHT, TRUE TO LINE AND LEVEL: MITER CORNERS.
   6. FIT ACOUSTICAL UNITS IN PLACE, FREE FROM DAMAGED EDGES OR DEFLCTS DETRIMENTAL TO APPEARANCE AND FUNCTION. LAY DIRECTIONALLY PATTERNED UNITS ONE WAY WITH PATTERN AS DIRECTED. FIT BORDER UNITS NEATLY AGAINST ABUTTING SURFACES.
   7. INSTALL UNITS LEVEL, IN UNIFORM PLANE AND FREE FROM TWIST, WARP AND DENTS.
   8. INSTALL HOLD-DOWN CLIPS WHERE REQUIRED BY APPLICABLE CODES AND WHERE CEILING IS WITHIN 20'-0" OF AND EXTERIOR DOOR.
L. ADJUSTMENT: ADJUST SAGS OR TWISTS WHICH DEVELOP IN CEILING SYSTEM AND CEILING IS WITHIN 20'-0" OR AN EXTERIOR DOOR.

0990 PAINTING

A. DESCRIPTION
   1.1. THE CONTRACTOR SHALL DO ALL INTERIOR AND EXTERIOR PAINTING INDICATED ON THE DRAWINGS, INCLUDING WOOD, MASONRY, GYPSUM BOARD FERROUS METALS, PRIME COATED METAL SURFACES, REGISTERS, AND GRILLES.
   1.2. EXAMINE ALL SUBSURFACES TO RECEIVE WORK AND REPORT TO THE GENERAL CONTRACTOR WITH A COPY TO THE TENANT, ALL CONDITIONS DETRIMENTAL TO WORK. COMMENCEMENT OF WORK WILL BE CONSTRUED AS ACCEPTANCE OF ALL SUBSURFACES.
   1.3. DELIVER MATERIALS AND EQUIPMENT IN ONE PLACE WHERE DIRECTED BY THE GENERAL CONTRACTOR'S FOREMAN. PROTECT FLOORS AND WALLS OF STORAGE ROOM. REMOVE OILY RAGS, WASTE ETC. FROM BUILDING EVERY NIGHT AND UNDER NO CIRCUMSTANCES ALLOW THEM TO ACCUMULATE.
B. PRODUCTS
   1.1. ALL MATERIALS SHALL BE OF THE BEST GRADE; REFER TO FINISHES.
C. INSTALLATION
   1.1. THE CONTRACTOR SHALL EXAMINE ALL SURFACES TO BE FINISHED AND MAKE CERTAIN THAT THINGS CAN BE PUT IN PROPER CONDITION FOR FINISHING BY CUSTOMARY CLEANING, SANDING OR PUTTYING. THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR PRODUCING A SATISFACTORY JOB WITH THE MATERIALS SPECIFIED.
   1.2. WORKMANSHIP SHALL BE OF THE VERY BEST; ALL MATERIALS EVENLY SPREAD AND SMOOTHLY FLOWED ON, GIVING A UNIFORM SHEEN AND COLOR WITHOUT RUNS AND SAGS. TRANSPARENT FINISHES SHALL HAVE ALL COATS BRUSHED OUT SMOOTH. SPRAYING IS ACCEPTABLE FOR PRIME COATS ONLY. ONLY SKILLED PAINTERS SHALL BE EMPLOYED AND ALL MATERIALS SHALL BE APPLIED IN STRICT ACCORDANCE WITH MANUFACTURER'S DIRECTIONS. EXCEPT AS OTHERWISE SPECIFIED, ONLY ONE MANUFACTURER'S MATERIALS SHALL BE USED IN EACH OF THE FINISHES SPECIFIED.
   1.3. ALL SURFACES TO BE PAINTED OR ENAMELED SHALL BE CLEANED FREE OF LOOSE DIRT AND DUST BEFORE PAINTING IS STARTED. ALL KNOTS, PITCH STREAKS, AND SAPPY SPOTS SHALL FIRST BE TOUCHED UP WITH SHELLAC WHERE FINISH CALLS FOR PAINT OR ENAMEL.
   1.4. ALL NECESSARY PUTTYING OF NAIL HOLES, CRACKS ETC SHALL BE DONE AFTER THE FIRST COAT, WITH PUTTY OF A COLOR TO MATCH THAT OF THE FINISH.
   1.5. ALL UNDERCOATS OF PAINT AND ENAMEL SHALL BE TINTED TO THE APPROXIMATE SHADE OF THE FINAL COAT. ALL SUCTION SPOTS OR HOT SPOTS IN CEMENT, AFTER THE APPLICATION OF THE FIRST COAT, SHALL BE TOUCHED UP BEFORE APPLYING THE SECOND COAT. CONTRACTOR SHALL SECURE COLOR SCHEDULE FOR ROOMS BEFORE PRIMING WALLS.
   1.6. TOPS AND BOTTOMS OF ALL DOORS SHALL BE FINISHED SAME AS BALANCE OF DOOR.
   1.7. ALL PAINTING SHALL BE DONE TO CONFORM TO LOCAL HEALTH DEPARTMENT REGULATIONS.

0998 FIBERGLASS REINFORCED PLASTIC PANELS (FRP)

A. DESCRIPTION
   1.1. SUBMITTALS
      a. SAMPLES: TWO 8" X 10" SAMPLES OF EACH PANEL, ONE 10" PIECE OF EACH TYPE OF TRIM AND MOLDING. SAMPLE FASTENERS.
      b. DETAILED INSTALLATION GUIDE FORM #855.

B. PRODUCTS
   1.1. FRP PANELS: GLASBORD- P AS MANUFACTURED BY KEMLITE INDUSTRIES, INC. OR EQUAL. COLOR- WHITE
   1.2. CLEAN WALL SURFACE OF ALL FOREIGN MATERIAL AND PREPARE SURFACE AS REQUIRED BY FRP MANUFACTURER.

C. INSTALLATION
   1.1. INSTALL PANELS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION GUIDE.
   1.2. APPLY ADHESIVE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. INSTALL SEAMS PLUMB AND NOT LESS THAN 6" FROM CORNERS. HORIZONTAL SEAMS NOT PERMITTED.
   1.3. REMOVE EXCESS ADHESIVE PROMPTLY; REPLACE PANELS, WHICH CANNOT BE COMPLETELY CLEANED.

10280 WASHROOM ACCESSORIES

PART 1 GENERAL

1.1. SECTION INCLUDES
   A. WASHROOM ACCESSORIES AS SCHEDULED IN THIS SECTION AND AS INDICATED ON THE DRAWINGS.
1.2 QUALITY ASSURANCE
   A. SINGLE SOURCE REQUIREMENTS: TO THE GREATEST EXTENT POSSIBLE PROVIDE PRODUCTS FROM A SINGLE MANUFACTURER.
   B. ACCESSIBILITY REQUIREMENTS: COMPLY WITH REQUIREMENTS APPLICABLE IN THE JURISDICTION OF THE PROJECT INCLUDING BUT NOT LIMITED TO ADA AND ICC/ANSI A117.1 REQUIREMENTS AS APPLICABLE.
1.3 WARRANTY
   A. MANUFACTURER'S WARRANTY FOR WASHROOM ACCESSORIES: MANUFACTURER'S STANDARD 1 YEAR WARRANTY FOR MATERIAL AND WORKMANSHIP.

PART 2 PRODUCTS

2.1 MANUFACTURER

   A. BASIS OF DESIGN PRODUCTS: BASED ON THE QUALITY AND PERFORMANCE REQUIREMENTS OF THE PROJECT, SPECIFICATIONS ARE BASED SOLELY ON THE PRODUCTS OF BOBRICK WASHROOM EQUIPMENT, INC.. WWW.BOBRICK.COM. LOCATION OF MANUFACTURING SHALL BE THE UNITED STATES.

2.2 TOILET ACCESSORY SCHEDULE

   A. SINGLE-USER WASHROOM, STANDARD DUTY:
      1. TA-1: B-5806 SERIES CONCEALED MOUNTING GRAB BAR - 1-1/4 INCH DIAMETER.
      2. TA-5: B-2111 CLASSIC SERIES WALL-MOUNTED SOAP DISPENSER.

PART 3 EXECUTION

3.1 INSTALLATION
   A. INSTALL PRODUCTS IN STRICT COMPLIANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS, INCLUDING THE FOLLOWING:
      1. VERIFY BLOCKING HAS BEEN INSTALLED PROPERLY.
      2. VERIFY LOCATION DOES NOT INTERFERE WITH DOOR SWINGS OR USE OF FIXTURES.
      3. COMPLY WITH MANUFACTURER'S RECOMMENDATIONS FOR BACKING AND PROPER SUPPORT.
      4. USE FASTENERS AND ANCHORS SUITABLE FOR SUBSTRATE AND PROJECT CONDITIONS.
      5. INSTALL UNITS RIGID, STRAIGHT, PLUMB, AND LEVEL, IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND APPROVED SHOP DRAWINGS.
      6. CONCEAL EVIDENCE OF DRILLING, CUTTING, AND FITTING TO ROOM FINISH.
      7. TEST FOR PROPER OPERATION.

3.2 CLEANING AND PROTECTION
   A. CLEAN EXPOSED SURFACES OF COMPARTMENTS, HARDWARE, AND FITTINGS USING METHODS ACCEPTABLE TO THE MANUFACTURER.
   B. TOUCH-UP, REPAIR OR REPLACE DAMAGED PRODUCTS UNTIL SUBSTANTIAL COMPLETION.

REGISTRATION SEAL:
6408
FREDERICK J. GOGLIA
4/16/25

FREDERICK J. GOGLIA
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REV	DATE	DESCRIPTION	BY
1			
2			
3			
4			
5			
6			
7			
8			
9			

TITLE:
ARCHITECTURAL SPECIFICATIONS

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

KIOSK PROTOTYPE:
4.2 REVERSE PROTOTYPE
JUNE 2024

ISSUE DATE:
03/21/2024

PROJECT NO.
240761

DRAWN BY:
AGG

CHECKED BY:
SW

SHEET NO.
G0.6

GENERAL NOTES

SECTION C4.01.2 OF 2018 NC ENERGY CODE
COMCHECK KEYED TO THE 2018 IECC OR THE ASHRAE 90.1-2016 SHALL BE PERMITTED TO DEMONSTRATE COMPLIANCE WITH THIS CODE.

COMcheck Software Version COMcheckWeb

Envelope Compliance Certificate

Project Information

Energy Code:	90.1 (2016) Standard
Project Title:	240761-2294 Cameron NC
Location:	Cameron, North Carolina
Climate Zone:	3a
Project Type:	New Construction
Vertical Glazing / Wall Area:	8%
Performance Sim. Specs:	EnergyPlus 8.1.0.009 (EPW: USA_NC_Charlotte-Douglas.Intl.AP.723140_TMY3.epw)

Construction Site:
130 BRANDYWOOD CT
CAMERON, North Carolina 28326

Owner/Agent:
KEVIN & JENNIFER LEAVITT
PROUD TO SERVE, LLC
115 FOX HUNT LN
SOUTHERN PINES, North Carolina 28387
(402) 541-5857
proudtoservellc@gmail.com

Designer/Contractor:

Building Area	Floor Area
1-Dining: Cafeteria/Fast Food : Nonresidential	668

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor(a)
Roof: Insulation Entirely Above Deck, 3-Year-Aged Solar Reflectance = 0.68, Thermal Emittance = 0.84, [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	608	---	30.0	0.032	0.039
Floor: Unheated Slab-On-Grade, Vertical 2 ft., [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (c)	111	---	15.0	0.520	0.520
NORTH					
Ext. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	217	20.0	3.8	0.050	0.089
EAST					
Ext. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	475	20.0	3.8	0.050	0.089
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	24	---	---	0.770	0.370
Window: Metal Frame: Fixed, Perf. Specs.: Product ID Product Label, SHGC 0.30, PF 0.48, VT 0.36, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	39	---	---	0.450	0.500
SOUTH					
Ext. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	230	20.0	3.8	0.050	0.089
Window: Metal Frame: Fixed, Perf. Specs.: Product ID Product Label, SHGC 0.30, PF 0.48, VT 0.36, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	36	---	---	0.450	0.500
WEST					
Ext. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	475	20.0	3.8	0.050	0.089
Window: Metal Frame: Operable, Perf. Specs.: Product ID Product Label, SHGC 0.40, PF 0.56, VT 0.44, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	17	---	---	0.450	0.600
Window: Metal Frame: Fixed, Perf. Specs.: Product ID Product Label, SHGC 0.30, PF 0.48, VT 0.36, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	22	---	---	0.450	0.500

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
(b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.
(c) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.

Envelope PASSES: Design 1% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 90.1 (2016) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Frederick J. Goglia — Name - Title
Signature
04/15/25 — Date

COMcheck Software Version COMcheckWeb

Inspection Checklist

Energy Code: 90.1 (2016) Standard

Requirements: 0.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
4.2.2, 5.4.3.1.1, 5.7 [PR1][1]	Plans and/or specifications provide all information with which compliance can be determined for the building envelope and document where exceptions to the standard are claimed.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
4.2.2, 8.4.1.1, 8.4.1.2, 8.7 [PR6][2]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the electrical systems and equipment and document where exceptions are claimed. Feeder connectors sized in accordance with approved plans and branch circuits sized for maximum drop of 3%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Footing / Foundation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
4.2.4 [FO1][2]	Installed below-grade wall insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	R-____	R-____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
4.2.4 [FO3][2]	Installed slab-on-grade insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	R-____ ☐ Unheated ☐ Heated	R-____ ☐ Unheated ☐ Heated	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.8.1.2 [FO4][2]	Slab edge insulation installed per manufacturer's instructions.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
5.5.3.5 [FO5][2]	Slab edge insulation depth/length.	____ ft	____ ft	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.8.1.7 [FO6][1]	Exterior insulation protected against damage, sunlight, moisture, wind, landscaping and equipment maintenance activities.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
5.8.1.7.3 [FO7][1]	Insulation in contact with the ground has <=0.3% water absorption rate per ASTM C272.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
6.4.4.1.5 [FO11][1]	Bottom surface of floor structures incorporating radiant heating insulated to >=R-3.5.	R-____	R-____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

REGISTRATION NO. NORTH CAROLINA REGISTERED SEAL 6408 ARCHITECT FREDERICK J. GOGLIA
4/16/25

FREDERICK J. GOGLIA
ARCHITECT, NCARB, RDI
1930 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcvi.com

SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
1	04/16/25	BD & CLIENT COMMENTS	SW
2			
3			
4			
5			
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9			

TITLE:
ENERGY COMPLIANCE

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

KIOSK PROTOTYPE:
4.2 REVERSE PROTOTYPE
JUNE 2024
ISSUE DATE:
03/21/2024
PROJECT NO.
240761
DRAWN BY:
AGG
CHECKED BY:
SW

SHEET NO.
G0.7

GENERAL NOTES

SECTION C4.01.2 0F 2018 NC ENERGY CODE
COMCHECK KEYED TO THE 2018 IECC OR THE ASHRAE 90.1-2016 SHALL BE PERMITTED TO DEMONSTRATE COMPLIANCE WITH THIS CODE.

Section # & Req.ID	Framing / Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
5.4.3.2 [FR1][3]	Factory-built and site-assembled fenestration and doors are labeled or certified as meeting air leakage requirements.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
5.5.4.3a [FR8][1]	Vertical fenestration U-Factor.	U-____	U-____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.5.4.3b [FR9][1]	Skylight fenestration U-Factor.	U-____	U-____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.5.4.4.1 [FR10][1]	Vertical fenestration SHGC value.	SHGC:____	SHGC:____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.5.4.4.2 [FR11][1]	Skylight SHGC value.	SHGC:____	SHGC:____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.8.2.1, 5.8.2.3, 5.8.2.4, 5.8.2.5 [FR12][2]	Fenestration products rated (U-factor, SHGC, and VT) in accordance with NFRC or energy code defaults are used.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
5.8.2.2 [FR13][1]	Fenestration and door products are labeled, or a signed and dated certificate listing the U-factor, SHGC, VT, and air leakage rate has been provided by the manufacturer.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
5.5.3.6 [FR14][2]	U-factor of opaque doors associated with the building thermal envelope meets requirements.	U-____ ☐ Swinging ☐ Nonswinging	U-____ ☐ Swinging ☐ Nonswinging	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.4.3.1 [FR15][1]	Continuous air barrier is wrapped, sealed, caulked, gasketed, and/or taped in an approved manner, except in semiheated spaces in climate zones 1-6.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
8.4.2 [EL10][2]	At least 50% of all 125 volt 15- and 20-Amp receptacles are controlled by an automatic control device.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
8.4.3 [EL11][2]	New buildings have electrical energy use measurement devices installed. Where tenant spaces exist, each tenant is monitored separately. In buildings with a digital control system the energy use is transmitted to to control system and displayed graphically.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Insulation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
4.2.4 [IN2][1]	Installed roof insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports. For some ceiling systems, verification may need to occur during Framing Inspection.	R-____ ☐ Above deck ☐ Metal ☐ Attic	R-____ ☐ Above deck ☐ Metal ☐ Attic	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.8.1.2, 5.8.1.3 [IN3][1]	Roof insulation installed per manufacturer's instructions. Blown or poured loose-fill insulation is installed only where the ceiling slope is <= 3:12.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
4.2.4 [IN6][1]	Installed above-grade wall insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	R-____ ☐ Mass ☐ Metal ☐ Steel ☐ Wood	R-____ ☐ Mass ☐ Metal ☐ Steel ☐ Wood	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.8.1.2 [IN7][2]	Above-grade wall insulation installed per manufacturer's instructions.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
4.2.4 [IN8][2]	Installed floor insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	R-____ ☐ Mass ☐ Steel ☐ Wood	R-____ ☐ Mass ☐ Steel ☐ Wood	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.8.1.1 [IN10][2]	Building envelope insulation is labeled with R-value or insulation certificate has been provided listing R-value and other relevant data.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
5.8.1.9 [IN18][2]	Building envelope insulation extends over the full area of the component at the proposed rated R or U value.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
5.8.1.4 [IN11][2]	Eaves are baffled to deflect air to above the insulation.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
5.8.1.5 [IN12][2]	Insulation is installed in substantial contact with the inside surface separating conditioned space from unconditional space.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
5.8.1.6 [IN13][2]	Recessed equipment installed in building envelope assemblies does not compress the adjacent insulation.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
5.8.1.7.1 [IN15][2]	Attics and mechanical rooms have insulation protected where adjacent to attic or equipment access.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Insulation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
5.8.1.7.2 [IN16][2]	Foundation vents do not interfere with insulation.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
5.8.1.8 [IN17][3]	Insulation intended to meet the roof insulation requirements cannot be installed on top of a suspended ceiling. Mark this requirement compliant if insulation is installed accordingly.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
5.4.3.3 [FI1][1]	Weatherseals installed on all loading dock cargo doors in Climate Zones 4-8.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

REGISTRATION SEAL
NORTH CAROLINA PROFESSIONAL SEAL 6408 ARCHITECT FREDERICK J. GOGLIA
4/16/25

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9950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
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SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
1	04/16/25	BD & CLIENT COMMENTS	SW
2			
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TITLE:

ENERGY COMPLIANCE

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

KIOSK PROTOTYPE:
4.2 REVERSE PROTOTYPE
JUNE 2024

ISSUE DATE:
03/21/2024

PROJECT NO.
240761

DRAWN BY:
AGG

CHECKED BY:
SW

SHEET NO.

G0.8

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: Scooter's Coffee Store #2294 - Cameron, NC

Address: 130 Brandywood Ct. Cameron, Nc Zip Code 28326

Owner/Authorized Agent: Kevin Leavitt Phone # (402) 541-5857 E-Mail proudtoservellc@gmail.com

Owned By: ☐ City/County ☑ Private ☐ State

Code Enforcement Jurisdiction: ☐ City_____ ☑ County_____ ☐ State

CONTACT: _____

DESIGNER	FIRM	NAME:	LICENSE #	TELEPHONE #	E-MAIL
Architectural	Arcvision	Frederick J. Goglia	6408	(800)489 -2233	fgoglia@arcv.com
Civil	GASKIN + LECRAW OF NC	Timothy Kylie Sharpe	54209	(636) 546-8100	ksharpe@gaskinslecraw.com
Electrical	Arcvision	Robert L. Queathem	35265	(800)489 -2233	rqueathem@arcv.com
Fire Alarm	N/A	N/A	N/A	(___)	N/A
Plumbing	Arcvision	Robert L. Queathem	35265	(800)489 -2233	rqueathem@arcv.com
Mechanical	Arcvision	Robert L. Queathem	35265	(800)489 -2233	rqueathem@arcv.com
Sprinkler-Standpipe	N/A	N/A	N/A	(___)	N/A
Structural	Carusio Turley Scott Inc	Richard Dahlmann	49268	(480) 774 -1705	rdahlmann@ctsaz.com
Retaining Walls >5' High				(___)	
Other				(___)	

("Other" should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.)

2018 NC BUILDING CODE: ☑ New Building ☐ Addition ☐ Renovation
☐ 1st Time Interior Completion
☐ Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and requirements
☐ Phased Construction - Shell/Core- Contact the local inspection jurisdiction for possible additional procedures and requirements

2018 NC EXISTING BUILDING CODE: EXISTING: ☐ Prescriptive ☐ Repair ☐ Chapter 14
Alteration: ☐ Level I ☐ Level II ☐ Level III
☐ Historic Property ☐ Change of Use

CONSTRUCTED: (date) N/A **CURRENT OCCUPANCY(S)** (Ch. 3): 6 PEOPLE

RENOVATED: (date) N/A **PROPOSED OCCUPANCY(S)** (Ch. 3): 6 PEOPLE

RISK CATEGORY (Table 1604.5): **Current:** ☐ I ☐ II ☐ III ☐ IV
Proposed: ☐ I ☑ II ☐ III ☐ IV

BASIC BUILDING DATA

Construction Type: ☐ I-A ☐ II-A ☐ III-A ☐ IV ☐ V-A
(check all that apply) ☐ I-B ☐ II-B ☐ III-B ☑ V-B

Sprinklers: ☑ No ☐ Partial ☐ Yes ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D

Standpipes: ☑ No ☐ Yes Class ☐ I ☐ II ☐ III ☐ Wet ☐ Dry

Fire District: ☐ No ☐ Yes **Flood Hazard Area:** ☑ No ☐ Yes

Special Inspections Required: ☐ No ☑ Yes (Contact the local inspection jurisdiction for additional procedures and requirements.)

Gross Building Area Table

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
3rd Floor	N/A	N/A	N/A
2nd Floor	N/A	N/A	N/A
Mezzanine	N/A	N/A	N/A
1st Floor	N/A	668 SQ FT	668 SQ FT
Basement	N/A	N/A	N/A
TOTAL	N/A	668 SQ FT	668 SQ FT

ALLOWABLE AREA

Primary Occupancy Classification(s):
Assembly ☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ☐ A-5
Business ☑
Educational ☐
Factory ☐ F-1 Moderate ☐ F-2 Low
Hazardous ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM
Institutional ☐ I-1 Condition ☐ 1 ☐ 2
☐ I-2 Condition ☐ 1 ☐ 2
☐ I-3 Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
☐ I-4
Mercantile ☐
Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Storage ☐ S-1 Moderate ☐ S-2 Low ☐ High-piled
☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage
Utility and Miscellaneous ☐

Accessory Occupancy Classification(s): N/A

Incidental Uses (Table 509): N/A

Special Uses (Chapter 4 – List Code Sections): N/A

Special Provisions: (Chapter 5 – List Code Sections): N/A

Mixed Occupancy: ☑ No ☐ Yes Separation: ____ Hr. Exception: _____

☐ Non-Separated Use (508.3) - The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.

☐ Separated Use (508.4) - See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$

_____ + _____ + ... = _____ ≤ 1.00

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2[4] AREA	(C) AREA FOR FRONTAGE INCREASE[1,5]	(D) ALLOWABLE AREA PER STORY OR UNLIMITED[2,3]
1	Ground Level	668 SQ FT	9,000 sq ft	i f = 245	9,000 sq ft

[1] Frontage area increases from Section 506.3 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = _____ (F)
b. Total Building Perimeter = _____ (P)
c. Ratio (F/P) = _____ (F/P)
d. W = Minimum width of public way = _____ (W)
e. Percent of frontage increase $I_f = 100[F/P - 0.25]$ x W/30 = _____ (%)
[2] Unlimited area applicable under conditions of Section 507.
[3] Maximum Building Area = total number of stories in the building x D (maximum3 stories) (506.2).
[4] The maximum area of open parking garages must comply with Table 406.5.4.
[5] Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE [1]
Building Height in Feet (Table 504.3) [2]	40	19	
Building Height in Stories (Table 504.4) [3]	2.5	1	

[1] Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.
[2] The maximum height of air traffic control towers must comply with Table 412.3.1.
[3] The maximum height of open parking garages must comply with Table 406.5.4.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	RATING PROVIDED (W/_____" REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses							
Bearing Walls							
Exterior							
North							
East							
West							
South							
Interior							
Nonbearing Walls and Partitions							
Exterior walls							
North							
East							
West							
South							
Interior walls and partitions							
Floor Construction Including supporting beams and joists							
Floor Ceiling Assembly							
Columns Supporting Floors							
Roof Construction, including supporting beams and joists							
Roof Ceiling Assembly							
Columns Supporting Roof							
Shaft Enclosures - Exit							
Shaft Enclosures - Other							
Corridor Separation							
Occupancy/Fire Barrier Separation							
Party/Fire Wall Separation							
Smoke Barrier Separation							
Smoke Partition							
Tenant/Dwelling Unit/ Sleeping Unit Separation							
Incidental Use Separation							

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
30 or greater	Unprotected, Nonsprinklered	No Limit	No Limit

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: ☐ No ☑ Yes
Exit Signs: ☐ No ☑ Yes
Fire Alarm: ☑ No ☐ Yes
Smoke Detection Systems: ☑ No ☐ Yes ☐ Partial _____
Carbon Monoxide Detection: ☑ No ☐ Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: _____

☑ Fire and/or smoke rated wall locations (Chapter 7)
☐ Assumed and real property line locations (if not on the site plan)
☑ Exterior wall opening area with respect to distance to assumed property lines (705.8)
☑ Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
☑ Occupant loads for each area
☑ Exit sign locations (1013)
☑ Exit access travel distances (1017)
☑ Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1))
☑ Dead end lengths (1020.4)
☑ Clear exit widths for each exit door
☑ Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
☑ Actual occupant load for each exit door
☐ A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
☑ Location of doors with panic hardware (1010.1.10)
☐ Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
☐ Location of doors with electromagnetic egress locks (1010.1.9.9)
☑ Location of doors equipped with hold-open devices
☐ Location of emergency escape windows (1030)
☑ The square footage of each fire area (202)
☐ The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
☑ Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS
(SECTION 1107)

UNIT CLASSIFICATION	TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED

ACCESSIBLE PARKING
(SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED		TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	96" SPACES	132" SPACES	
	1 per 100sf of GFA	8	1		1
TOTAL		8	1		1

PLUMBING FIXTURE REQUIREMENTS
(TABLE 2902.1)

USE		WATER CLOSETS			URINALS	LAVATORIES			SHOWERS /TUBS	DRINKING FOUNTAINS	
		MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX		REGULAR	ACCESSIBLE
SPACE	EXIST'G										
	NEW			1							
	REQ'D			1							

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)

Not applicable

REGISTRATION SEAL
NORTH CAROLINA
REGISTERED
SEAL
6408
ARCHITECT
FREDERICK J. GOGLIA
4/16/25

FREDERICK J. GOGLIA
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1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
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SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
1	04/16/25	BD & CLIENT COMMENTS	SW
2			
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9			

TITLE:
APPENDIX B

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

KIOSK PROTOTYPE:
4.2 REVERSE PROTOTYPE
JUNE 2024
ISSUE DATE:
03/21/2024
PROJECT NO.
240761
DRAWN BY:
AGG
CHECKED BY:
SW

SHEET NO.
G0.9a

ENERGY SUMMARY

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code: ☐ No ☐ Yes (The remainder of this section is not applicable)

Exempt Building: ☑ No ☐ Yes (Provide code or statutory reference): _____

Climate Zone: ☑ 3A ☐ 4A ☐ 5A

Method of Compliance: Energy Code ☐ Performance ☑ Prescriptive
ASHRAE 90.1 ☐ Performance ☑ Prescriptive
(If "Other" specify source here)_____

THERMAL ENVELOPE (Prescriptive method only)

Roof/ceiling Assembly (each assembly)
Description of assembly: Insulation Entirely Above Deck
U-Value of total assembly: 0.039
R-Value of insulation: 25
Skylights in each assembly: N/A
U-Value of skylight: N/A
total square footage of skylights in each assembly: N/A

Exterior Walls (each assembly)
Description of assembly: Wood-Framed, 16in. o.c.
U-Value of total assembly: 0.064
R-Value of insulation: 13
Openings (windows or doors with glazing)
U-Value of assembly: 0.064
Solar heat gain coefficient: N/A
projection factor: 0.48
Door R-Values: N/A

Walls below grade (each assembly)
Description of assembly: N/A
U-Value of total assembly: N/A
R-Value of insulation: N/A

Floors over unconditioned space (each assembly)
Description of assembly: Unheated Slab-On-Grade
U-Value of total assembly: 0.730
R-Value of insulation: N/A

Floors slab on grade
Description of assembly: N/A
U-Value of total assembly: N/A
R-Value of insulation: N/A
Horizontal/vertical requirement: N/A
slab heated: N/A

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
MECHANICAL DESIGN
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone
winter dry bulb: 16 F
summer dry bulb: 93 F

Interior design conditions
winter dry bulb: 68 F
summer dry bulb: 75 F
relative humidity: 50%

Building heating load: 20.4 MBH

Building cooling load: 60 MBH

Mechanical Spacing Conditioning System
Unitary
description of unit: Package Rooftop Unit
heating efficiency: Electric heat
cooling efficiency: 13.2 SEER2
size category of unit: <65000 btu
Boiler
Size category. If oversized, state reason.: _____
Chiller
Size category. If oversized, state reason.: _____

List equipment efficiencies: _____

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
STRUCTURAL DESIGN
(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:

Importance Factors: Snow (I_S) 1.0
Seismic (I_E) 1.0

Live Loads: Roof 20 psf
Mezzanine N/A psf
Floor N/A psf

Ground Snow Load: 10 psf

Wind Load: Ultimate Wind Speed 118 mph (ASCE-7)
Exposure Category C

SEISMIC DESIGN CATEGORY: ☐ A ☒ B ☐ C ☐ D
Provide the following Seismic Design Parameters:
Risk Category (Table 1604.5) ☐ I ☒ II ☐ III ☐ IV
Spectral Response Acceleration S_S_____%g S_1_____%g
Site Classification (ASCE 7) ☐ A ☐ B ☐ C ☒ D ☐ E ☐ F
Data Source: ☒ Field Test ☐ Presumptive ☐ Historical Data
Basic structural system ☒ Bearing Wall ☐ Dual w/Special Moment Frame
☐ Building Frame ☐ Dual w/Intermediate R/C or Special Steel
☐ Moment Frame ☐ Inverted Pendulum
Analysis Procedure: ☐ Simplified ☒ Equivalent Lateral Force ☐ Dynamic
Architectural, Mechanical, Components anchored? ☒ Yes ☐ No

LATERAL DESIGN CONTROL: Earthquake ☐ Wind ☒

SOIL BEARING CAPACITIES:
Field Test (provide copy of test report) 2000 psf
Presumptive Bearing capacity _____ psf
Pile size, type, and capacity _____

REGISTRATION SEAL
NORTH CAROLINA REGISTERED SEAL 6408 ARCHITECT FREDERICK J. GOGLIA
4/16/25

FREDERICK J. GOGLIA
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SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
1	04/16/25	BD & CLIENT COMMENTS	SW
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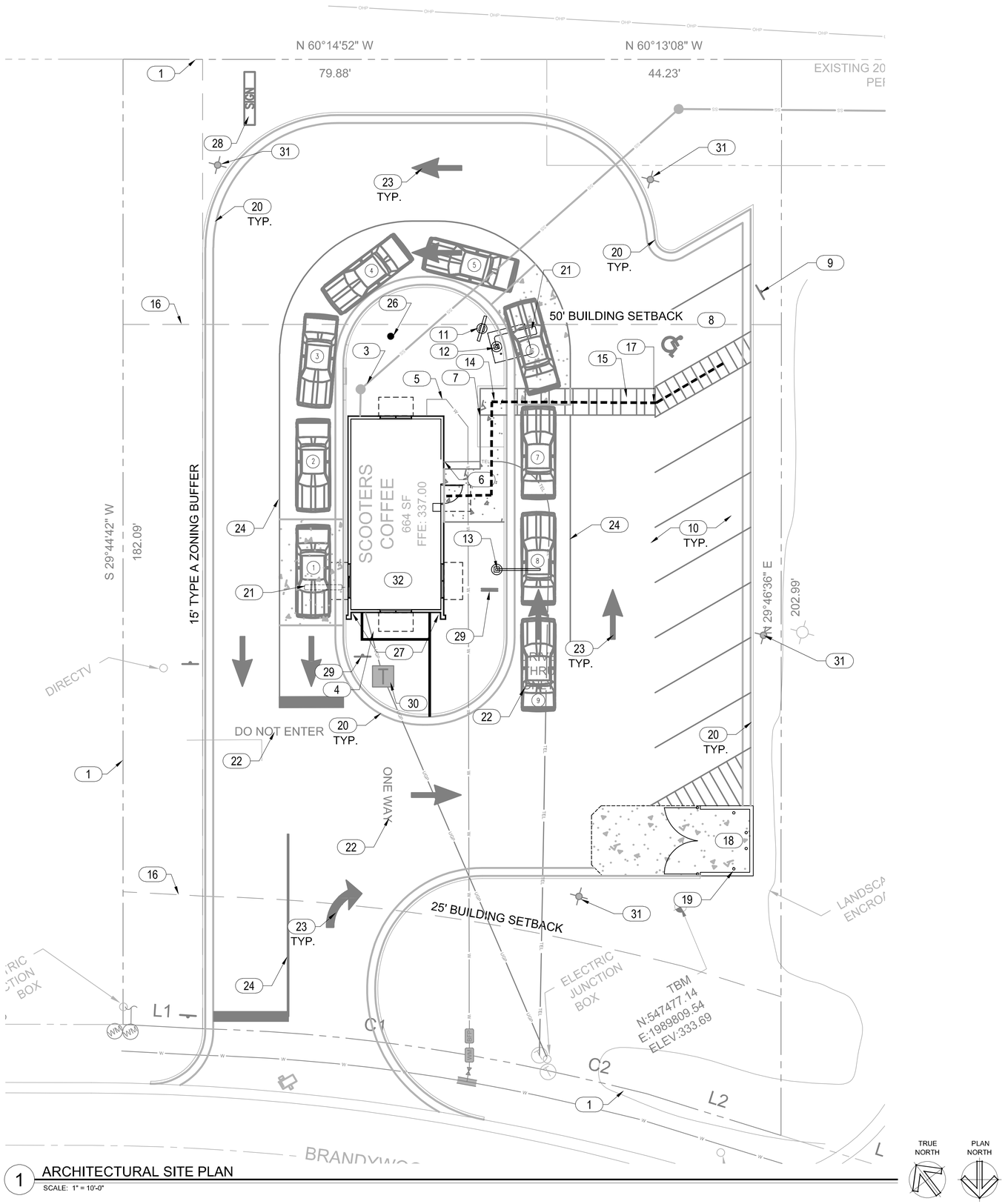
TITLE:
APPENDIX B

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

KIOSK PROTOTYPE:
4.2 REVERSE PROTOTYPE
JUNE 2024
ISSUE DATE:
03/21/2024
PROJECT NO.
240761
DRAWN BY:
AGG
CHECKED BY:
SW

SHEET NO.
G0.9b



1 ARCHITECTURAL SITE PLAN
SCALE: 1" = 10'-0"

TRUE NORTH

PLAN NORTH

GENERAL NOTES

A. CONTRACTOR SHALL FIELD VERIFY TYPE OF SOILS. IF CORROSIVE SOILS ARE ENCOUNTERED, TAKE NECESSARY PRECAUTIONS FOR ALL UNDERGROUND WORK

B. NO STRUCTURE OF ANY KIND TO BE CONSTRUCTED ON, OVER OR PLACED WITHIN THE PUBLIC UTILITY EASEMENTS EXCEPT WOOD, WIRE OR REMOVABLE SECTION TYPE FENCING AND/OR PAVING

C. CONTRACTOR TO COORDINATE STAGING AREAS AS REQUIRED

D. ANY DAMAGE BY CONTRACTOR OR SUBCONTRACTOR TO EXISTING ASPHALT PAVEMENT AND/OR EXISTING LANDSCAPING OUTSIDE OF CONSTRUCTION LIMIT LINE SHALL BE REPAIRED BY CONTRACTOR

E. CONTRACTOR SHALL FIELD VERIFY ANY EXISTING SITE CONDITIONS THAT MAY IMPEDE

F. NO MATERIALS SHALL BE STORED ON PUBLIC PROPERTY UNLESS AN ENCROACHMENT PERMIT IS FIRST OBTAINED FROM THE PUBLIC WORKS DEPARTMENT

G. CONTRACTOR SHALL PROVIDE CONSTRUCTION FENCE FOR PEDESTRIAN PROTECTION ACCORDING TO LOCAL REGULATIONS & BUILDING CODE

H. TEMPORARY TOILET FACILITIES SHALL BE PROVIDED

I. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO ENSURE THE SAFETY OF THE OCCUPANTS & WORKERS AT ALL TIMES

J. ALL DEBRIS SHALL BE REMOVED FROM THE PREMISES DAILY & WORK AREAS SHALL BE LEFT IN A CLEAN (BROOM) CONDITION AT ALL TIMES

K. CIVIL DRAWINGS SHALL GOVERN ON CONFLICTS WITH OTHER DISCIPLINE'S DRAWINGS

L. CONTRACTORS SHALL BE RESPONSIBLE FOR COMPLETE SECURITY & SAFETY OF THE SITE WHILE THE JOB IS IN PROGRESS & UNTIL THE JOB IS COMPLETE

M. CONTRACTORS SHALL VERIFY ALL DIMENSIONS ON DRAWINGS FOR CONFLICTS PRIOR TO CONSTRUCTION; THE CONTRACTOR WILL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES

N. IF SEASONAL CONDITIONS DO NOT ALLOW FOR SOD, USE HYDRO SEED WITH STRAW MATS OR IMPREGNATED STRAW MATS WITH SEEDS ARE REQUIRED.

KEYNOTES

X

1. PROPERTY LINE.
2. NOT USED.
3. PROPOSED 4" SANITARY SEWER LATERAL; REFER TO CIVIL DRAWINGS.
4. PROPOSED ELECTRICAL SERVICE ENTRANCE (3) 3-1/2" CONDUIT; REFER TO ELECTRICAL DRAWINGS.
5. PROPOSED 1" SERVICE WATER LINE (1" METER THEN 1-1/4" FROM THE METER TO THE BUILDING; REFER TO PLUMBING DRAWINGS..
6. PROPOSED LOCATION OF TELEPHONE / CABLE DEMARCATION (4" CONDUIT).
7. CONCRETE SIDEWALK, MINIMUM 5' WIDE.
8. ACCESSIBLE PARKING SPACE WITH 2% MAX RUNNING AND CROSS SLOPE; REFER TO CIVIL DRAWINGS.
9. ACCESSIBLE PARKING SIGN; REFER TO DETAIL 4/A0.3.
10. EMPLOYEE PARKING.
11. MENU BOARD, BY OTHERS.
12. SPEAKER POST, BY OTHERS.
13. HEIGHT CLEARANCE BAR; REFER TO DETAIL 3/A0.3.
14. ACCESSIBLE CURB RAMP WITH 8.3% MAX. RUNNING SLOPE AND 2% MAX. CROSS SLOPE.
15. ACCESSIBLE CROSSWALK WITH 5% MAX. RUNNING SLOPE AND 2% CROSS SLOPE, 2" STRIPES @ 36" MAX. O.C. PAINTED WHITE.
16. BUILDING SETBACK LINE.
17. ACCESSIBLE PATH OF TRAVEL; REFER TO NOTES BELOW.
18. TRASH ENCLOSURE; LOCATE PER CIVIL DRAWINGS, SEE 1/A0.2.
19. BOLLARD, SEE CIVIL DRAWINGS - PAINT POSITIVE RED SHERMAN WILLIAMS SW6871.
20. NEW CONCRETE CURB; REFER TO CIVIL DRAWINGS.
21. LOOP SENSOR FOR MENU BOARD SPEAKER AND DRIVE THRU WINDOW; REFER TO DETAIL 1/A0.3.
22. PAINTED SIGNAGE; REFER TO DETAIL 2/A0.3.
23. PAINTED DIRECTION ARROW; REFER TO DETAIL 6/A0.3.
24. 4" WIDE WHITE REFLECTIVE LANE STRIPING
25. NOT USED.
26. FLAGPOLE W/ SOLAR POWERED LIGHTING; REFER TO DETAIL 5/A0.3 AND STRUCTURAL DRAWINGS.
27. DOWNSPOUTS CONNECT TO STORM DRAIN WHEN AVALABLE, RUN UNDERNEATH TO DAYLIGHT ON ON PAVEMENT (WARM CLIMATES MAY UTILIZE SPLASH BLOCKS TO DIVERT WATER AWAY FROM BUILDING).
28. MONUMENT SIGN, SEE ELECTRICAL DRAWINGS. *COORDINATE FINAL LOCATION WITH OWNER AND SIGN VENDOR. REFER TO SCHEMATIC DETAIL 1/A0.4.
29. DIRECTIONAL SIGN, SEE ELECTRICAL DRAWINGS. *COORDINATE FINAL LOCATION WITH OWNER AND SIGN VENDOR. REFER TO SCHEMATIC DETAIL 2/A0.4.
30. PROPOSED TRANSFORMER; REFER TO ELECTRICAL DRAWINGS.
31. NEW LIGHTPOLE; REFER TO ELECTRICAL DRAWINGS.
32. DRIVE-THRU COFFEE KIOSK; REFER TO SHEET A1.1.

ACCESSIBLE PATH OF TRAVEL

ACCESSIBLE PATH OF TRAVEL; SHALL BE MINIMUM 48" WIDE FROM ARRIVAL POINT TO THE MAIN ENTRANCE

- WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2"
- CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5%
- SURFACE IS STABLE, FIRM AND SLIP RESISTANT
- FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM, PROTRUDING OBJECTS SHALL NOT PROJECT 4" FROM WALL WHEN ABOVE 27" AND LESS THAN 80" FROM FINISH GRADE, OR FINISH SURFACE.

REGISTRATION SEAL
NORTH CAROLINA REGISTERED SEAL 6408 ARCHITECT FREDERICK J. GOGLIA
4/16/25

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SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
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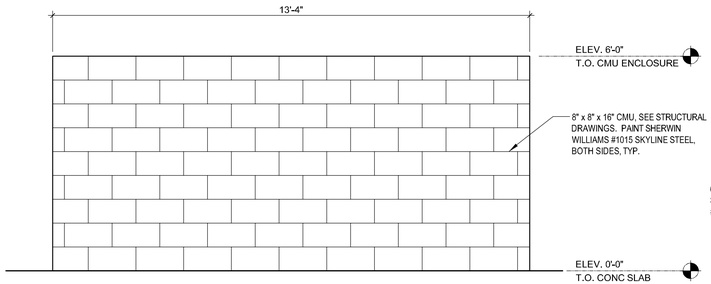
TITLE:
ARCHITECTURAL SITE PLAN

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

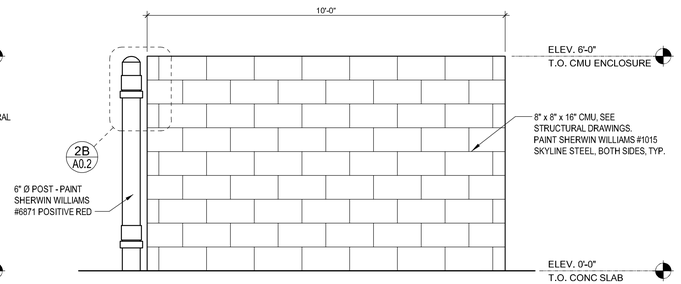
KIOSK PROTOTYPE:
4.2 REVERSE PROTOTYPE
JUNE 2024
ISSUE DATE:
03/21/2024
PROJECT NO.
240761
DRAWN BY:
AGG
CHECKED BY:
SW

SHEET NO.
A0.1



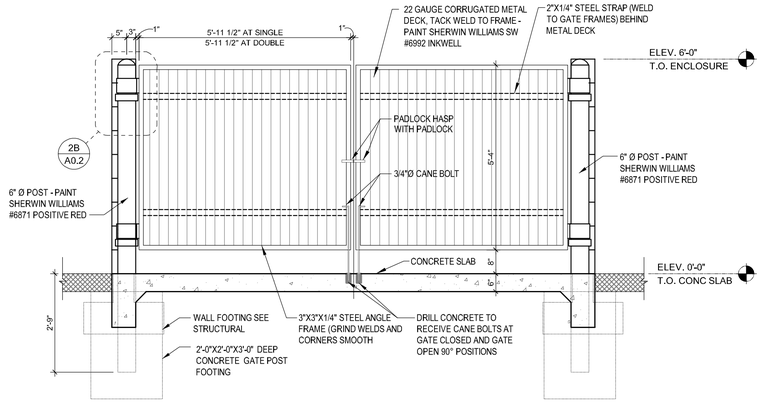
7 *TRASH ENCLOSURE - BACK ELEVATION*

SCALE: 1/2" = 1'-0"



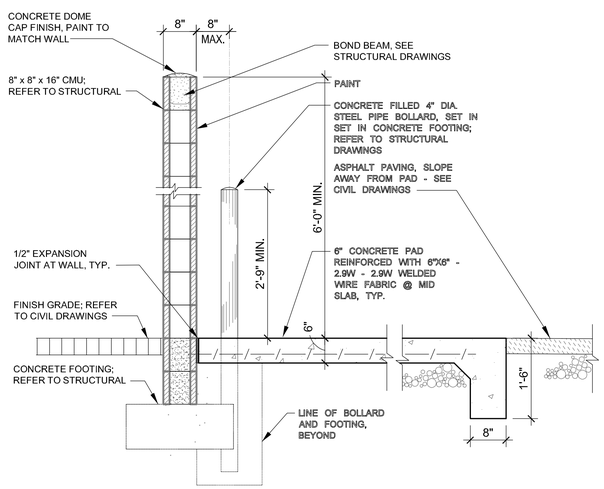
6 *TRASH ENCLOSURE - SIDE ELEVATION*

SCALE: 1/2" = 1'-0"



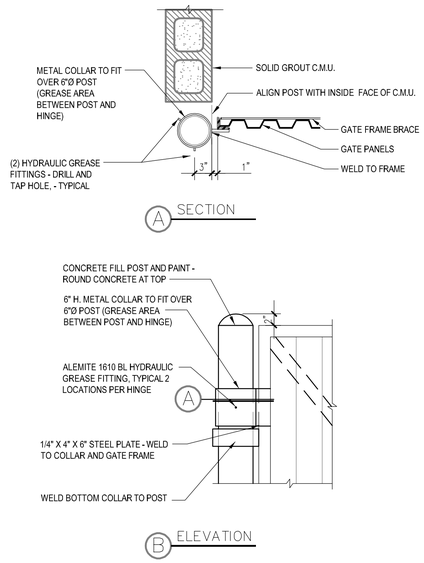
5 *TRASH ENCLOSURE - FRONT ELEVATION*

SCALE: 1/2" = 1'-0"



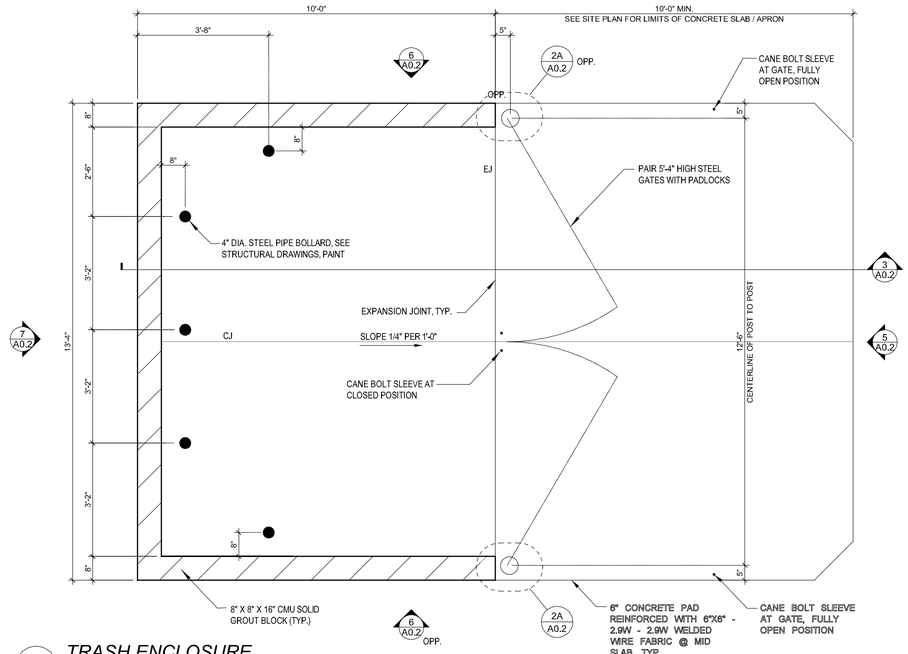
3 SECTION AT TRASH ENCLOSURE

SCALE: 3/4" = 1'-0"



2 HINGE AT TRASH GATE

SCALE: NTS



1 *TRASH ENCLOSURE*

SCALE: 1/2" = 1'-0"

REGISTRATION SEAL
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SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
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TITLE:
TRASH ENCLOSURE ELEVATIONS & DETAILS

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

KIOSK PROTOTYPE:
4.2 REVERSE PROTOTYPE
JUNE 2024

ISSUE DATE:
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PROJECT NO.
240761

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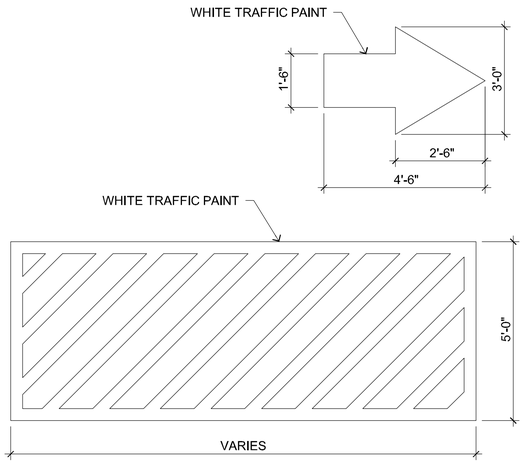
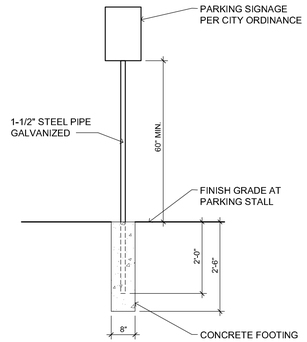
A0.2



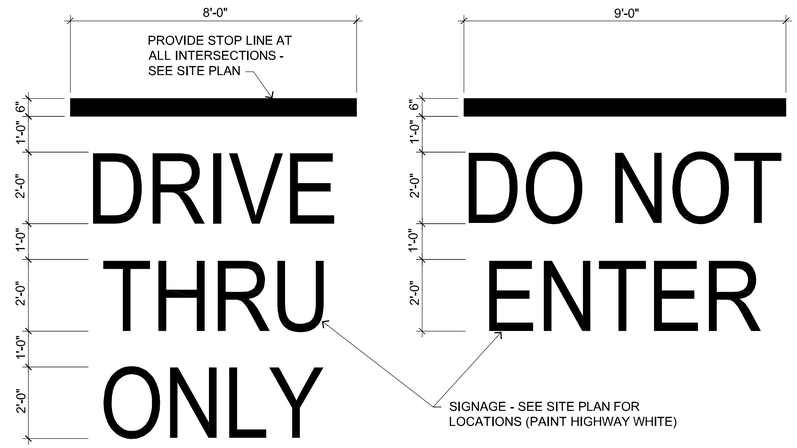
6 PAINTED TRAFFIC SYMBOLS

SCALE: NTS



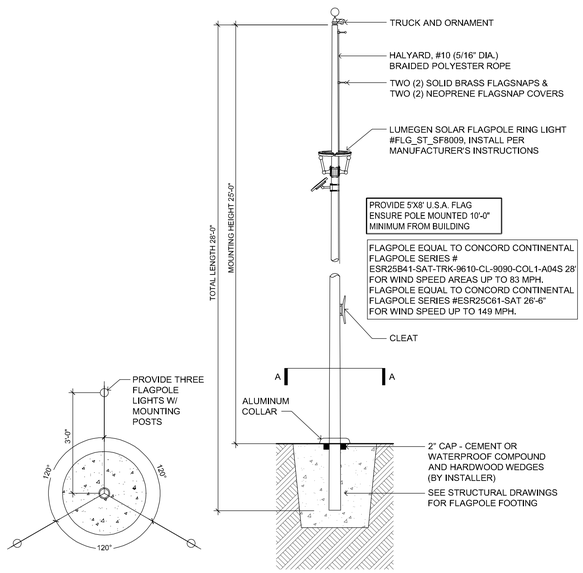
4 ACESSIBLE PARKING SIGN DETAIL

SCALE: 1/2" = 1'-0"



2 PAINTED SIGNAGE AT PAVING

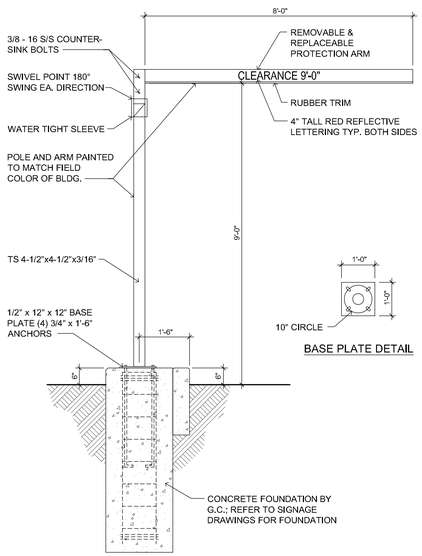
SCALE: 1/2" = 1'-0"



5 FLAGPOLE GROUND SET INSTALLATION

SCALE: NTS

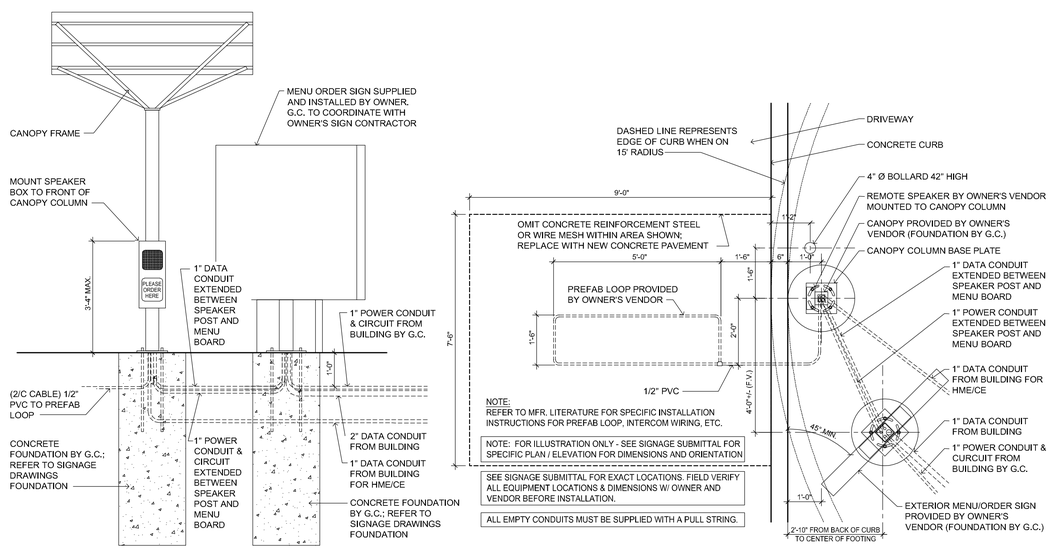
NOTE:
THIS DETAIL IS FOR SCHEMATIC PURPOSES ONLY.
SIGNAGE IS UNDER A SEPARATE SUBMITTAL AND PERMIT. VERIFY TYPE OF SIGN AND LOCATION WITH OWNER AND SIGNAGE PERMIT DRAWINGS.



3 HEIGHT CLEARANCE SIGN DETAIL

SCALE: NTS

NOTE:
THIS DETAIL IS FOR SCHEMATIC PURPOSES ONLY.
SIGNAGE IS UNDER A SEPARATE SUBMITTAL AND PERMIT. VERIFY TYPE OF SIGN AND LOCATION WITH OWNER AND SIGNAGE PERMIT DRAWINGS.



1 MENU BOARD CALL BOX DETAIL

SCALE: NTS

REGISTRATION SEAL
NORTH CAROLINA
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4/16/25

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EST. 1998 SCOOTER'S COFFEE

REV	DATE	DESCRIPTION	BY
1			
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TITLE:

SITE DETAILS

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

KIOSK PROTOTYPE:
4.2 REVERSE PROTOTYPE
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240761

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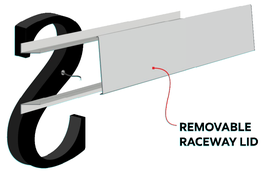
SHEET NO.

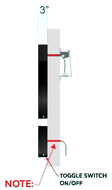
A0.3

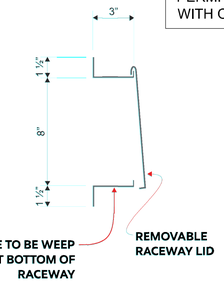
FLUSH MOUNTED CHANNEL LETTERS
SCALE: ½" = 1'-0"

NOTE:
"COFFEE DRI..." WILL BE WIRED INSIDE DROP CEILING.



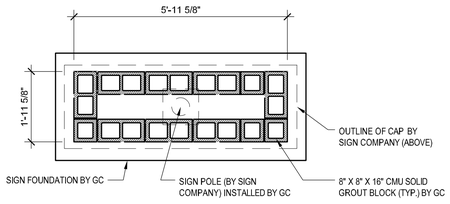
NOTE:
INVERTED RACEWAY TO BE SEALED BY ROOFER AFTER INSTALLATION.



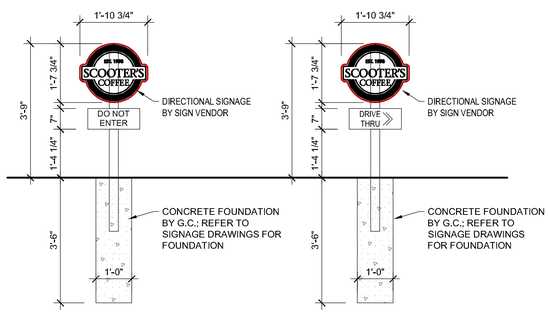


NOTE:
THIS PAGE IS FOR SCHEMATIC PURPOSES ONLY. SIGNAGE IS UNDER A SEPARATE SUBMITTAL AND PERMIT. VERIFY TYPE OF SIGN AND LOCATION WITH OWNER AND SIGNAGE PERMIT DRAWINGS.

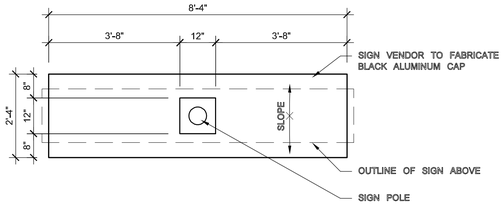
7 INVERTED RACEWAY DETAIL
SCALE: NTS



4 MONUMENT BASE - PLAN VIEW
SCALE: 1/2" = 1'-0"

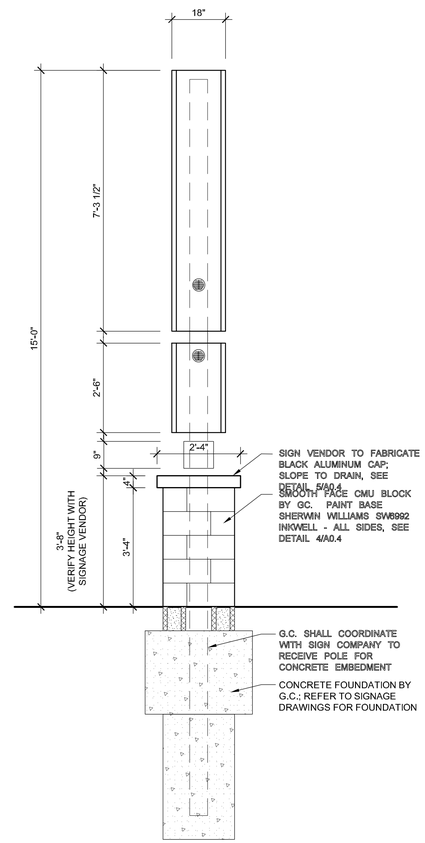


2 DIRECTIONAL SIGN DETAIL
SCALE: 1/2" = 1'-0"

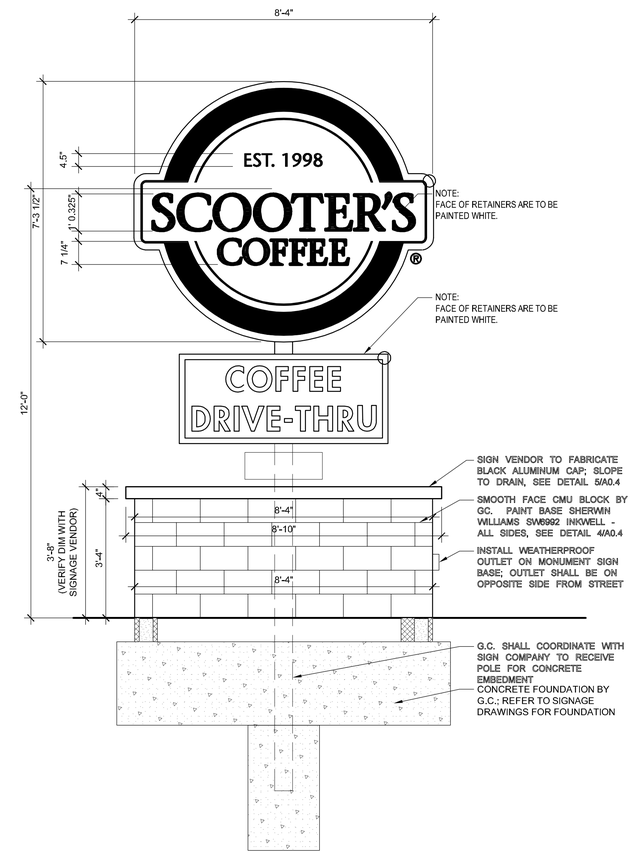


6 NOT USED
SCALE: 1/2" = 1'-0"

5 MONUMENT CAP - PLAN VIEW
SCALE: 1/2" = 1'-0"



3 MONUMENT SIGN - SECTION
SCALE: 1/2" = 1'-0"



1 MONUMENT SIGN - FRONT ELEVATION
SCALE: 1/2" = 1'-0"

REGISTRATION SEAL
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EST. 1998 SCOOTER'S COFFEE

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TITLE:
SIGNAGE DETAILS

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
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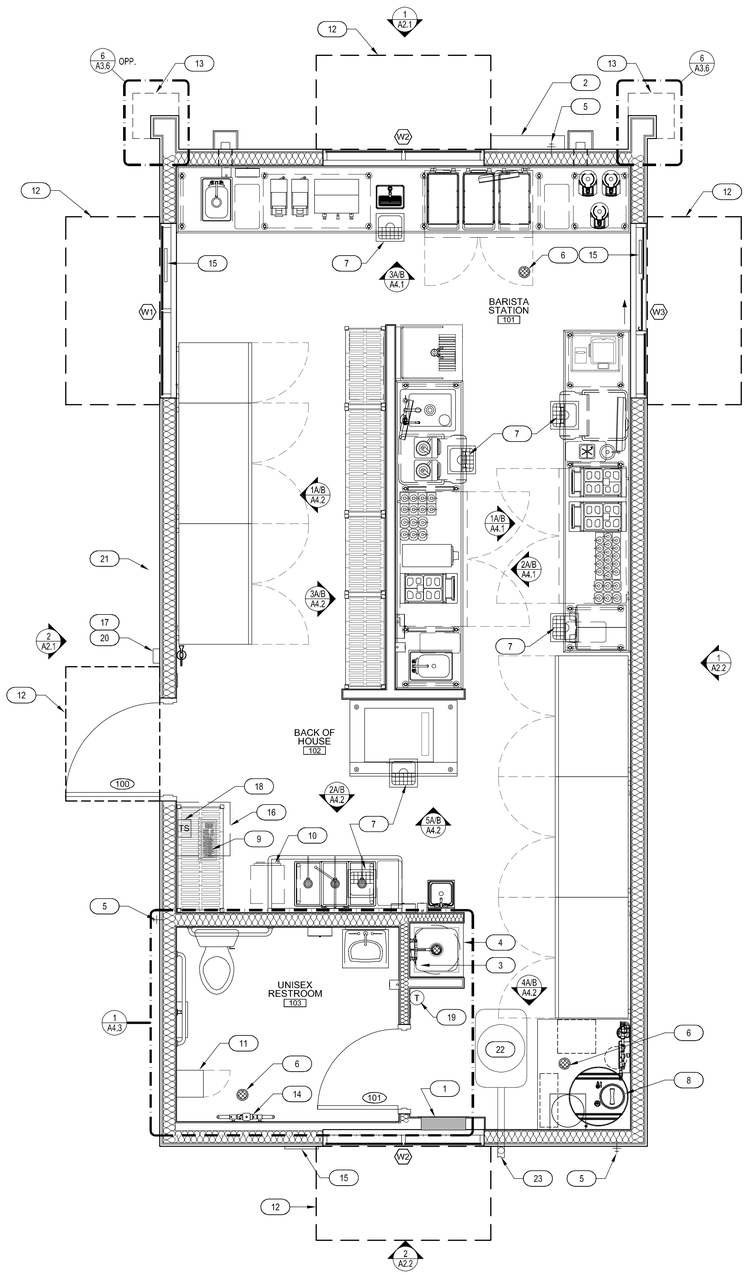
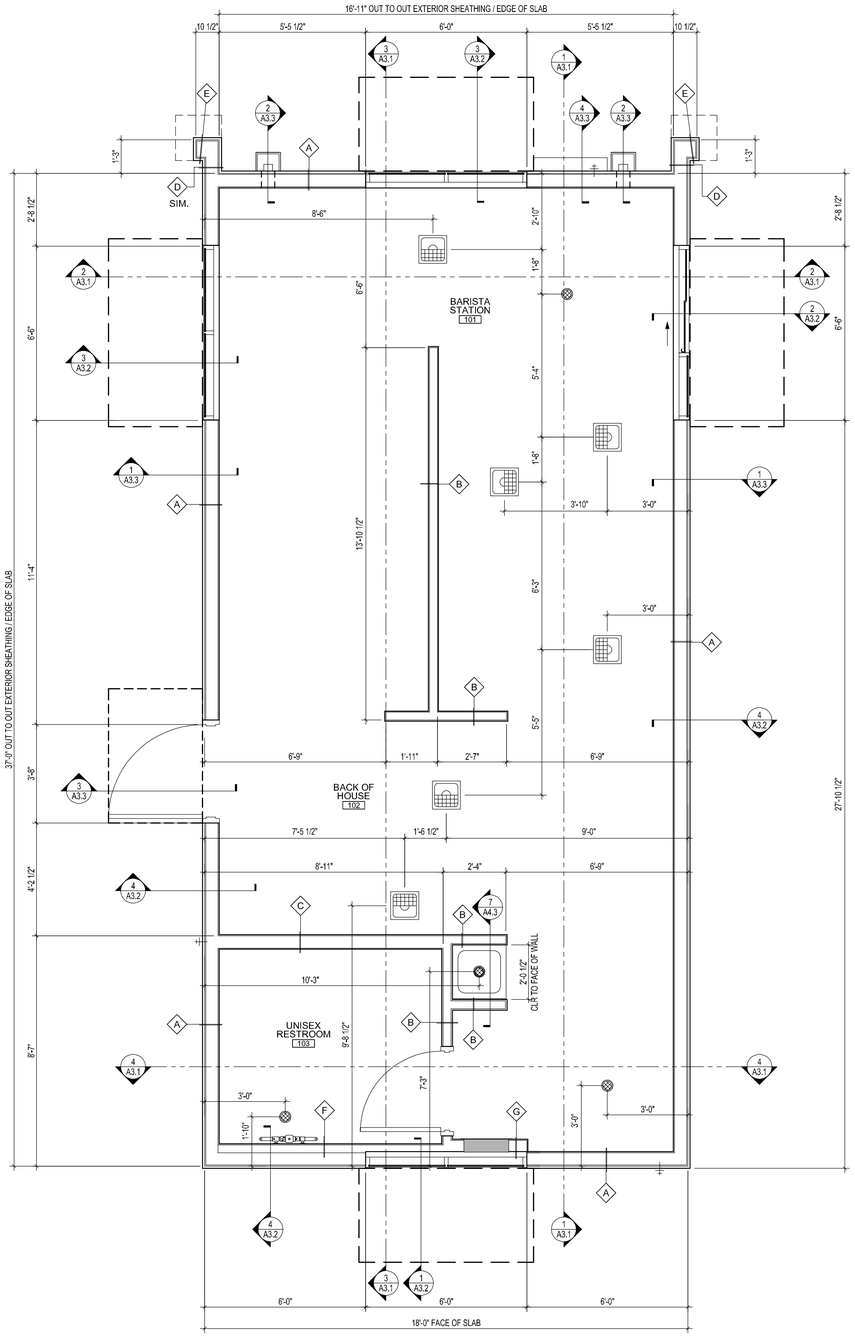


2 FLOOR PLAN
SCALE: 3/8" = 1'-0"

PLAN NORTH



1 DIMENSION PLAN
SCALE: 3/8" = 1'-0"

PLAN NORTH

GENERAL NOTES

A. PROVIDE PAINTED METAL ACCESS PANELS IN WALLS AND CEILINGS AT CONCEALED ITEMS SUCH AS VALVES, SHOCK ABSORBERS, CONTROLS, SWITCHES, ETC. AND ANY ITEMS WHICH MAY REQUIRE ACCESS NOT OTHERWISE PROVIDED.
B. GENERAL CONTRACTOR WILL FURNISH AND INSTALL 5LB MULTIPURPOSE DRY CHEMICAL (2A/10BC) RATED FIRE EXTINGUISHERS WITH MOUNTING BRACKETS AND ACCESSORIES AT 4'-0" A.F.F. AS REQUIRED BY GOVERNMENTAL AUTHORITIES. MAXIMUM TRAVEL DISTANCE OF 125'-0" FOR PLACEMENT.
C. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE, LOCATE, AND CONFIRM ALL FLOOR SINK, UNDERGROUND / OVERHEAD PLUMBING AND ELECTRICAL STUB-UPS.
D. SEE ROOM FINISH SCHEDULE FOR ALL ROOM FINISHES, SHEET A1.2.
E. SEE EQUIPMENT PLAN FOR EQUIPMENT INFORMATION, SHEET A1.3
F. GENERAL CONTRACTOR TO CAULK AND SEAL ALL EXPANSION AND SAW CUT JOINTS AT ALL EXTERIOR/INTERIOR CONCRETE - SEE JOINT SEALER SPECIFICATIONS.
G. ALL ITEMS SUCH AS LIGHT SWITCHES, FIRE EXTINGUISHERS, FIRE ALARM PULLS AND OTHER ITEMS TO BE LOCATED AS CLOSE AS POSSIBLE TO THE ADJACENT DOOR FRAME.
H. AT MOP SINK AND SINKS, PROVIDE 120 CLEANING SOLUTION DISPENSER ON HOSE BIBB SIDE.
I. THERE SHALL BE A MAXIMUM 1/2" OFFSET AT ALL THRESHOLDS AND AT ANY CHANGE OF FLOORING MATERIALS. OFFSETS GREATER THAN 1/4" REQUIRE A MAXIMUM BEVELED SLOPE OF 1 UNIT VERTICAL TO 2 UNITS HORIZONTAL.
J. ALL DOORS ARE 4" OFF ADJACENT WALLS UNO.
K. ALL EXTERIOR DOOR LANDING GRADES SHALL HAVE A SMOOTH TRANSITION TO THE ADJACENT PAVED SURFACE, AND THE MAX. RUNNING AND CROSS SLOPE OF ALL LANDINGS WILL BE 2%.
L. PROVIDE THERMOMETER ACCURATE TO 2 DEGREES FAHRENHEIT IN REFRIGERATORS IF ONE IS NOT INCLUDED WITH FIXTURE.
M. ALL HAND SINKS MUST BE PROVIDED WITH A HAND WASHING SIGN, PAPER TOWEL DISPENSER AND HAND SOAP DISPENSER.

WALL LEGEND

FRAMING / DIMENSIONING NOTE:

ALL DIMENSIONS ARE TO FACE OF SLAB AND FACE OF STUD.
SEE INTERIOR ELEVATIONS FOR BLOCKING LOCATIONS.

A — EXTERIOR WALL:
EXTERIOR: EXTERIOR FINISH (PER BUILDING SECTIONS) OVER TYVEK® COMMERCIAL WRAP OVER EXTERIOR SHEATHING OVER 2x6 WOOD STUDS @ 16" O.C., INTERIOR: 5/8" FIBEROCK BRAND BACKERBOARD AT BASE TO 12" A.F.F. WITH 5/8" M.R. GYP. BOARD & FRP PANEL TO 10'-6" A.F.F., PROVIDE BATT INSULATION IN WALLS, PER BUILDING SECTIONS.

B — INTERIOR PARTITION WALL: FULL HEIGHT
2x4" WOOD STUDS @ 16" O.C., 5/8" FIBEROCK BRAND BACKERBOARD AT BASE TO 12" A.F.F. W/ 5/8" M.R. GYP. BOARD & FRP PANEL TO 10'-6" A.F.F., BOTH SIDES. PROVIDE R-13 ACOUSTICAL BATT INSULATION AT RESTROOM.

C — PLUMBING PARTITION: FULL HEIGHT
2x6 WOOD STUDS @ 16" O.C. 5/8" FIBEROCK BRAND BACKERBOARD AT BASE TO 12" A.F.F. W/ 5/8" M.R. GYP. BOARD & FRP PANEL TO 10'-6" A.F.F. BOTH SIDES. PROVIDE R-13 ACOUSTICAL BATT INSULATION AT RESTROOM.

D — EXTERIOR WING WALL:
EXTERIOR FINISH OVER RAIN SCREEN OVER TYVEK® COMMERCIAL WRAP OVER EXTERIOR SHEATHING (BOTH SIDES) OVER 2x6 WOOD STUDS @ 16" O.C.

E — EXTERIOR WING WALL:
EXTERIOR FINISH OVER RAIN SCREEN OVER TYVEK® COMMERCIAL WRAP OVER EXTERIOR SHEATHING (BOTH SIDES) OVER 2x6 WOOD STUDS @ 16" O.C.

F — WALL FURRING: PARTIAL HEIGHT TO 10'-6" A.F.F.
2x4" WOOD STUDS @ 16" O.C., 5/8" FIBEROCK BRAND BACKERBOARD AT BASE TO 12" A.F.F. W/ 5/8" M.R. GYP. BOARD & FRP PANEL TO 10'-6" A.F.F.

G — WALL FURRING: PARTIAL HEIGHT TO 10'-6" A.F.F.
2x6" WOOD STUDS @ 16" O.C., 5/8" FIBEROCK BRAND BACKERBOARD AT BASE TO 12" A.F.F. W/ 5/8" M.R. GYP. BOARD & FRP PANEL TO 10'-6" A.F.F.

KEYNOTES - FLOOR PLAN (X)

1. ELECTRICAL PANEL; REFER TO ELECTRICAL DRAWINGS.
2. ELECTRICAL SEVICE ENTRANCE; REFER TO ELECTRICAL DRAWINGS. COORDINATE FINAL LOCATION TO ENSURE LOCATION DOES NOT INTERFERE WITH OTHER ITEMS.
3. WATER HEATER ABOVE; REFER TO PLUMBING DRAWINGS.
4. MOP SINK; REFER TO PLUMBING DRAWINGS.
5. HOSE BIBB; REFER TO PLUMBING DRAWINGS.
6. FLOOR DRAIN; REFER TO PLUMBING DRAWINGS.
7. FLOOR SINK; REFER TO PLUMBING DRAWINGS.
8. R.O. SYSTEM; REFER TO PLUMBING DRAWINGS.
9. MANAGER'S STATION.
10. FLOOR SAFE BY OWNER, BOLTED TO FLOOR BY G.C.
11. 6-DOOR EMPLOYEE LOCKERS ANCHORED TO WALL BY G.C.
12. LINE OF AWNING ABOVE; BY OTHERS.
13. DASHED LINE REPRESENTS ANGLED WING WALL ABOVE.
14. DOMESTIC WATER SERVICE; REFER TO PLUMBING DRAWINGS.
15. OPEN SIGN, BY OWNER.
16. DATA RACK ABOVE; REFER TO ELECTRICAL DRAWINGS.
17. KNOX BOX; REFER TO EXTERIOR ELEVATIONS.
18. THERMOSTAT SENSOR; REFER TO MECHANICAL DRAWINGS.
19. THERMOSTAT; REFER TO MECHANICAL DRAWINGS.
20. MAILBOX (BY OWNER) LOCATED UNDER KNOX BOX; REFER TO EXTERIOR ELEVATIONS.
21. NOT USED
22. UNDERSLAB GREASE TRAP; REFER TO PLUMBING DRAWINGS.
23. SHEIR PUMP-OUT PORT (PP'3), ROUTE PLUMBING UNDER SLAB TO OUTSIDE OF EXTERIOR WALL AT 24" A.F.F. ABOVE GRADE. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

WINDOW LEGEND	
(#)	WINDOW TAG. REFER TO SCHEDULE ON SHEET A5.1
DOOR LEGEND	
(#)	DOOR TAG. REFER TO SCHEDULE ON SHEET A5.2

REGISTRATION SEAL
NORTH CAROLINA REGISTERED SEAL 6408 ARCHITECT FREDERICK J. GOGLIA
4/16/25

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www.arcvi.com

SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
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2			
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TITLE:
DIMENSION PLAN & FLOOR PLAN

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

KIOSK PROTOTYPE:
4.2 REVERSE PROTOTYPE
JUNE 2024
ISSUE DATE:
03/21/2024
PROJECT NO.
240761
DRAWN BY:
AGG
CHECKED BY:
SW

SHEET NO.
A1.1

FINISH SCHEDULE

X

CODE	DESCRIPTION	MANUFACTURER	STYLE / PATTERN / COLOR	NOTES
FRP-1	FIBER REINFORCED PLASTIC	CRANE COMPOSITES	COLOR: WHITE FINISH: PEBBLE EMBOSSED	4' x 10' SHEETS INSTALL VERTICAL
WB-1	VINYL WALL BASE	JOHNSONITE	40 BLACK B (4" HIGH x .80" THICK)	PROVIDE SILICONE SEALANT AT FLOOR
SC-1	SEALED CONCRETE	CURECRETE	LEVEL 2 FINISH; RETROGUARD CLEAR SEALER	SEALER SHALL BE HEALTH DEPARTMENT APPROVED
PT-1	PAINT	SHERMAN-WILLIAMS	COLOR: SW7035 AESTHETIC WHITE FINISH: SEMI-GLOSS	INTERIOR DOOR AND INSIDE OF EXTERIOR DOOR
PT-2	PAINT	SHERMAN-WILLIAMS	COLOR: SW6992 INKWELL FINISH: SEMI-GLOSS	OUTSIDE OF EXTERIOR DOOR
CG-1	FIBER REINFORCED PLASTIC CORNER GUARD	CRANE COMPOSITES	OUTSIDE CORNER	
CG-2	STAINLESS STEEL CORNER GUARD	CRANE COMPOSITES	OUTSIDE CORNER	OPTIONAL

GENERAL NOTES

A. REFER TO WALL SECTIONS AND ELEVATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

B. INTERIOR WALL AND CEILING FINISH MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES.

C. ALL FINISHES SHALL MEET FLAME SPREAD AND SMOKE DEVELOPMENT RATINGS FOR THEIR USE, AS REQUIRED BY LOCAL CODES.

D. G.C. SHALL CAULK JOINT BETWEEN CEILING GRID & FRP WALL PANELS IN ALL AREAS.

E. ALL HOLLOW METAL DOORS AND FRAMES SHALL BE PRIMED & PAINTED - UNO.

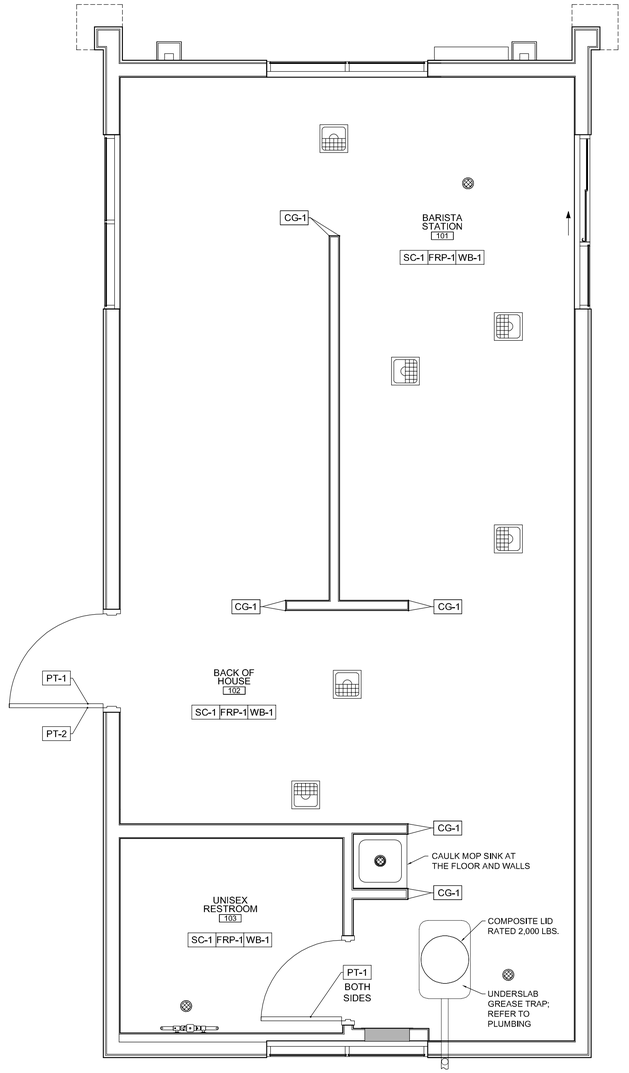
F. INSTALL MATERIAL OF THE LONGEST PRACTICAL LENGTHS & SIZES TO MINIMIZE THE NUMBER OF JOINTS.

G. PROVIDE PVC JOINT TRANSITIONS AT FRP AT ALL JOINTS EXCEPT AT OUTSIDE CORNERS. PROVIDE CORNER GUARDS AT OUTSIDE CORNERS.

H. ANY DECORATIONS USED SHALL BE NON-COMBUSTIBLE OR FLAME PROOFED IN AN APPROVED MANOR.

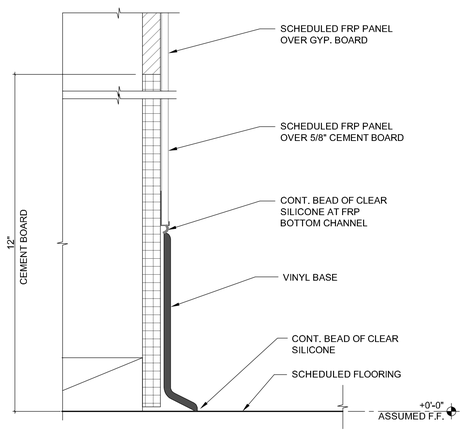
I. THE CONTRACTOR SHALL PROTECT ALL ADJACENT MATERIALS AND EQUIPMENT AGAINST DAMAGE FROM SPILLAGE, DRIPPING AND SPATTER OF COATING MATERIALS. REPLACE DAMAGED TILE AS REQUIRED. ALL BUILDING MATERIALS AND EQUIPMENT SHALL BE LEFT CLEAN, WITH ALL DAMAGED SURFACES CORRECTED. PROVIDE "WET PAINT" SIGNS TO INDICATE NEWLY PAINTED SURFACES.

J. ALL FINISHES SHALL BE CLASS C WITH FLAME SPREAD INDEX OF 76-200 AND SMOKE DEVELOPMENT INDEX OF 0-450.



1 FINISH FLOOR PLAN

SCALE: 3/8" = 1'-0"



2 VINYL WALL BASE AT FRP

SCALE: 6" = 1'-0"

REGISTRATION SEAL

NORTH CAROLINA REGISTERED SEAL 6408 ARCHITECT FREDERICK J. GOGLIA

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SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
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TITLE:

FINISH PLAN AND SCHEDULE

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

KIOSK PROTOTYPE:
4.2 REVERSE PROTOTYPE
JUNE 2024

ISSUE DATE:
03/21/2024

PROJECT NO.
240761

DRAWN BY:
AGG

CHECKED BY:
SW

SHEET NO.

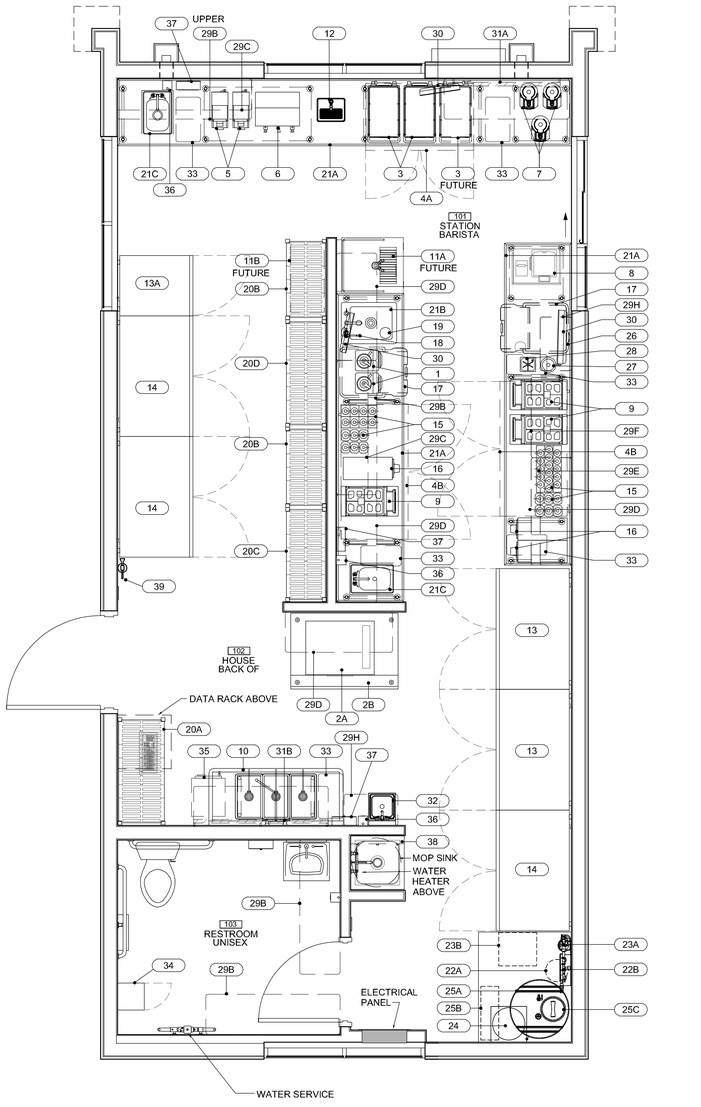
A1.2

EQUIPMENT SCHEDULE

ITEM / TAG	DESCRIPTION	MANUFACTURER	SUPPLIER	MODEL #	CONTRACTOR		CLIENT / VENDOR		REMARKS PROTO 4.2,3 UPDATED 1/15/2025
					PROVIDE	INSTALL	PROVIDE	INSTALL	
1	BEVERAGE BLENDER	VITAMIX	KEQ/HARVEST	SCH068515-BBAB			X	X	
2A	R/C ICE MAKER, CUBE-STYLE	SCOTSMAN	KEQ	MC0830SR-32		X	X		GC SHALL PROVIDE WATER & DRAIN CONNECTIONS, WATER MUST BE FROM FILTERED LINE, GC TO PROVIDE POWER CORD
2B	ICE STORAGE BIN	SCOTSMAN	KEQ	B842S		X	X		B842S = 778 LBS.
3	RAPID COOK OVEN	MERRY CHEF	KEQ	CONNEX 12			X	X	1 DATA LINE REQUIRED PER OVEN; 208-240V, 30 AMPS - NEMA 6-30P
4A	U/C REFRIGERATOR (48")	ATOSA	KEQ	MGF8402GR			X	X	115V; 5-15 NEMA PLUG; 2.3 AMPS
4B	U/C REFRIGERATOR (60")	ATOSA	KEQ	MGF8403GR			X	X	115V; 5-15 NEMA PLUG; 2.8 AMPS
5	COFFEE GRINDER	BUNN	KEQ	G2 HD BLK			X	X	120V; 5-15 NEMA PLUG; 11 AMPS
6	COFFEE BREWER	FETCO	KEQ/HARVEST	HARVEST E213252			X	X	208/240V / 60 / 1-PH; 11 AMPS; NEMA 5-15P; ELECTRICIAN TO PROVIDE PLUG
7	COFFEE DISPENSER	FETCO	KEQ/HARVEST	HARVEST D45100000			X	X	
8	POS TERMINAL W/ PRINTER	PAR/BRINK	PAR/BRINK	PAR/BRINK M3901			X	X	
9	ESPRESSO MACHINE	FRANKE	FRANKE	S700TS			X	X	220V CIRCUITS WITH TWIST LOCK NEMA L6-30 RECEPTACLES
10	3-COMP SINK	BK RESOURCES	KEQ	BKS-3-1220-12-12TS			X	X	VENDOR INSTALL; PLUMBER TO MAKE FINAL CONNECTIONS
11A	BEVERAGE DISPENSER	MICRO-MATIC	KEQ	MICRO-MATIC 44309			X	X	OPTIONAL
12	WATER STATION	T&S BRASS	KEQ	5GF-16P-WS		X	X		PLUMBER INSTALL
13	REACH-IN REFRIGERATOR (2 DOOR)	ATOSA	KEQ	MBF8507GR			X	X	115V / 60 / 1-PH; 5-15 NEMA CORD WITH PLUG; 3.2 AMPS
13A	REACH-IN REFRIGERATOR (1 DOOR)	ATOSA	KEQ	MBF8505GR			X	X	115V / 60 / 1-PH; 5-15 NEMA CORD WITH PLUG; 2.1 AMPS
14	REACH-IN FREEZER (2 DOOR)	ATOSA	KEQ	MBF8503GR			X	X	115V / 60 / 1-PH; 5-15 NEMA CORD WITH PLUG; 8.6 AMPS
15	SYRUP STAND, 4 BOTTLE	SMALLWARES ORDER	KEQ	-			X	X	SMALLWARES ORDER
16	DISPOSABLE CUP DISPENSER	SMALLWARES ORDER	KEQ/HARVEST	SANC8504WF			X	X	SMALLWARES ORDER
17	MOBILE ICE STORAGE BIN	CAMBRO	KEQ	ICS100L110			X	X	
18	DECK MOUNT SINGLE FAUCET	T&S BRASS	KEQ	B-0207 SCH		X	X		PLUMBER HOOK UP
19	BLENDER CONTAINER RINSER	VITAMIX	KEQ	RINSE-O-MATIC 1442			X	X	PLUMBER HOOK UP
20A	WIRE SHELVING	METRO	KEQ	CHROME FINISH 21"x60"			X	X	MANAGER STATION; BOTTOM SHELF TO BE SOLID
20B	WIRE SHELVING	METRO	KEQ	CHROME FINISH 18"x36"			X	X	
20C	WIRE SHELVING	METRO	KEQ	CHROME FINISH 18"x42"			X	X	
20D	WIRE SHELVING	METRO	KEQ	CHROME FINISH 18"x48"			X	X	
20E	WIRE SHELVING	METRO	KEQ	CHROME FINISH 21"x48"			X	X	
21A	S/S COUNTER	CUSTOM	KEQ	CUSTOM FAB			X	X	PER SCOOTER'S COFFEE APPROVED CUSTOM SHOP DRAWINGS
21B	PITCHER RINSER SINK	CUSTOM	KEQ	CUSTOM FAB			X	X	PER SCOOTER'S COFFEE APPROVED CUSTOM SHOP DRAWINGS
21C	HAND SINK W/ SPLASH GUARD	CUSTOM	GC	CUSTOM FAB			X	X	PER SCOOTER'S COFFEE APPROVED CUSTOM SHOP DRAWINGS
22A	WATER TREATMENT SYSTEM (4)	CLEAN WATER GUYS / KINETICO	WATER FILTRATION SUPPLIER	DP290			X	X	FILTERS ONLY - PLUMBER TO INSTALL
22B	WATER TREATMENT SYSTEM (1)	CLEAN WATER GUYS / KINETICO	WATER FILTRATION SUPPLIER	-			X	X	FILTERS ONLY - PLUMBER TO INSTALL
23A	WATER SOFTENER	CLEAN WATER GUYS / KINETICO	WATER FILTRATION SUPPLIER	-			X	X	
23B	BRINE TANK	CLEAN WATER GUYS / KINETICO	WATER FILTRATION SUPPLIER	-			X	X	
24	BUFFER TANK W/ S/S SHELF	CLEAN WATER GUYS / KINETICO	WATER FILTRATION SUPPLIER	-			X	X	
25A	WATER STORAGE TANK	CLEAN WATER GUYS / KINETICO	KEQ	50 GALLON			X	X	
25B	WATER PUMP	CLEAN WATER GUYS / KINETICO	KEQ	-			X	X	
25C	DAB BOOSTER PUMP	CLEAN WATER GUYS / KINETICO	KEQ	-			X	X	MOUNTED ON WALL IF REQUIRED
26	ZOOM TIMER	HME	COMMERCIAL ELECTRONICS	NITRO			X	X	PROVIDE (1) ONE CAT5 DATA LINE AT TIMER
27	BUILT-IN DIPPER WELL W/ FAUCET	T&S BRASS	KEQ	B-2282-01		X	X		PLUMBER TO INSTALL
28	BUILT-IN PITCHER RINSER	SMALLWARES ORDER	KEQ	-		X	X		6" x 6" x 2" CUT OUT
29A	WALL MOUNT WIRE SHELVING	METRO	KEQ	18"x72"			X	X	PROVIDE EACH UNIT W/ WALL BRACKET HARDWARE
29B	WALL MOUNT WIRE SHELVING	METRO	KEQ	18"x60"			X	X	PROVIDE EACH UNIT W/ WALL BRACKET HARDWARE
29C	WALL MOUNT WIRE SHELVING	METRO	KEQ	14"x60"			X	X	PROVIDE EACH UNIT W/ WALL BRACKET HARDWARE
29D	WALL MOUNT WIRE SHELVING	METRO	KEQ	18"x48"			X	X	PROVIDE EACH UNIT W/ WALL BRACKET HARDWARE
29E	WALL MOUNT WIRE SHELVING	METRO	KEQ	14"x48"			X	X	PROVIDE EACH UNIT W/ WALL BRACKET HARDWARE
29F	WALL MOUNT WIRE SHELVING	METRO	KEQ	18"x36"			X	X	PROVIDE EACH UNIT W/ WALL BRACKET HARDWARE
29G	WALL MOUNT SHELVING	METRO	KEQ	14"x24"			X	X	PROVIDE EACH UNIT W/ WALL BRACKET HARDWARE
29H	ORDER STAGING CART	METRO	KEQ	SC30			X	X	OPTIONAL - ONLY REQUIRED FOR SBS LOCATIONS
30	DRIVE-THRU ORDER MONITOR	VIEWSONIC 32" FLAT TV	PARTECK / BRINK	PARTECH M3710		X	X		PROVIDE (1) ONE CAT5 DATA LINE AT EACH MONITOR
31A	SMART WALL	METRO 48"	KEQ	SC48-SWCS-K4			X	X	PROVIDE EACH UNIT W/ WALL BRACKET HARDWARE
31B	SMART WALL	METRO 60"	KEQ	SC60-3COMP-K4			X	X	PROVIDE EACH UNIT W/ WALL BRACKET HARDWARE
32	WALL MOUNT HAND SINK	BK RESOURCES	KEQ	BKHS-W-SS-SS-P-G		X	X		PLUMBER INSTALL 12"W x 14.5"D x 12.25"H; 9x9 5" DEEP BOWL
33	TRASH RECEPTACLE	SMALLWARES ORDER	KEQ	23 GALLON BLACK TRIMLINE		X	X		UNDER COUNTER
34	EMPLOYEE LOCKERS	-	KEQ	-		X	X		12 x 12 x 12 6 TIER G.C. TO ANCHOR TO WALL
35	SAFE	-	KEQ	-		X	X		BOLTED TO FLOOR BY G.C.
36	SOAP DISPENSER	DIVERSEY ORDER / HARVERST	KEQ	-		X	X		SURFACE MOUNTED BY G.C.
37	PAPER TOWEL DISPENSER	SMALLWARES ORDER	GC	BOBRICK 2621		X	X		SURFACE MOUNTED BY G.C.
38	MOP & BROOM RACK	SMALLWARES ORDER	KEQ	T&S BRASS B-0653		X	X		SURFACE MOUNTED BY G.C.
39	FIRE EXTINGUISHER	AMEREX	GC	2A:10B:C	X	X			SUPPLIED WITH WALL MOUNT HOOK BRACKET 888-16591

GENERAL NOTES:

1. ALL MILLWORK / STAINLESS STEEL COUNTERS/ WIRE SHELVES TO BE PROVIDED AND INSTALLED BY CONCEPT SERVICES, UNLESS OTHERWISE NOTED
2. THE WATER FILTRATION SYSTEM IS TO BE INSTALLED IN BACK-OF-HOUSE AREA
3. THE REVERSE OSMOSIS SYSTEM IS TO BE INSTALLED NEXT TO THE WATER FILTRATION SYSTEM
4. G.C. TO INSTALL 12"W X 12"L X 12"D CONC. SLAB TO ACCEPT COMMUNICATION POST (PROVIDED BY OTHERS) - CONC. SLAB TO BE PLACED FROM FACE OF CURB IN LOCATION NOTED ON SCHEMATIC DRIVE-THRU MENU-BOARD & SPEAKER/INTERCOM PLAN - CONC. SLAB TO INCLUDE 2 BLANK CONDUITS LOCATED IN THE CENTER OF THE SLAB - ONE OF THESE CONDUITS TO BE RAN FROM THE CENTER OF SLAB TO INSIDE THE BUILDING TO THE LOCATION NEAR THE ELECTRICAL PANEL - THE OTHER CONDUIT WILL BE RAN FROM THE CENTER OF SLAB & CONNECTED TO THE UNDERGROUND LOOP SENSOR (PROVIDED BY OTHERS) IN DRIVE THRU LANE - NOTE: MENU BOARD LOCATION; PROVIDE A CONDUIT WITH POWER RAN TO THE OUTSIDE MENU BOARD LOCATION NOTED ON PLAN.
5. G.C. WILL NEED TO COORDINATE WITH COUNTERTOP FAB FOR PROPER LOCATION OF COUNTERTOP LEGS WITH FLOOR SINK LOCATION.



1 EQUIPMENT PLAN

SCALE: 3/8" = 1'-0"

PLAN NORTH

REGISTRATION SEAL: NORTH CAROLINA REGISTERED SEAL 6408 ARCHITECT FREDERICK J. GOGLIA

4/16/25

FREDERICK J. GOGLIA
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TITLE:
EQUIPMENT PLAN AND SCHEDULE

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

KIOSK PROTOTYPE:
4.2 REVERSE PROTOTYPE
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PROJECT NO.
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DRAWN BY:
AGG

CHECKED BY:
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SHEET NO.
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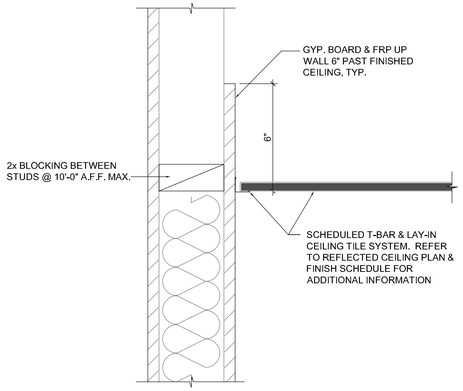
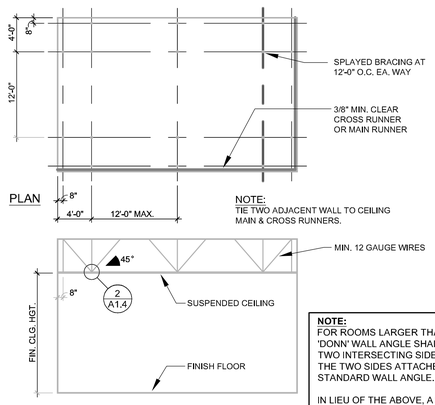


4 SUSPENDED LAY-IN CEILING AT KITCHEN

SCALE: 3" = 1'-0"

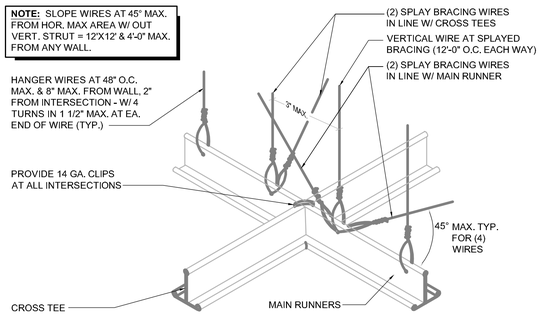


NOTE:
FOR ROOMS LARGER THAN 25' X 25', A 2" 'DONN' WALL ANGLE SHALL BE USED AT TWO INTERSECTING SIDES, OPPOSITE THE TWO SIDES ATTACHED TO STANDARD WALL ANGLE.

IN LIEU OF THE ABOVE, A STABILIZER BAR MAY BE USED ABOVE GRID OR GRID MAY BE TIED TOGETHER WITH 18 GA. WIRE FROM RUNNER TO RUNNER, CONTINUOUSLY AT THE TWO SIDES.

3 TYPICAL CEILING SUSPENSION SYSTEM

SCALE: NTS

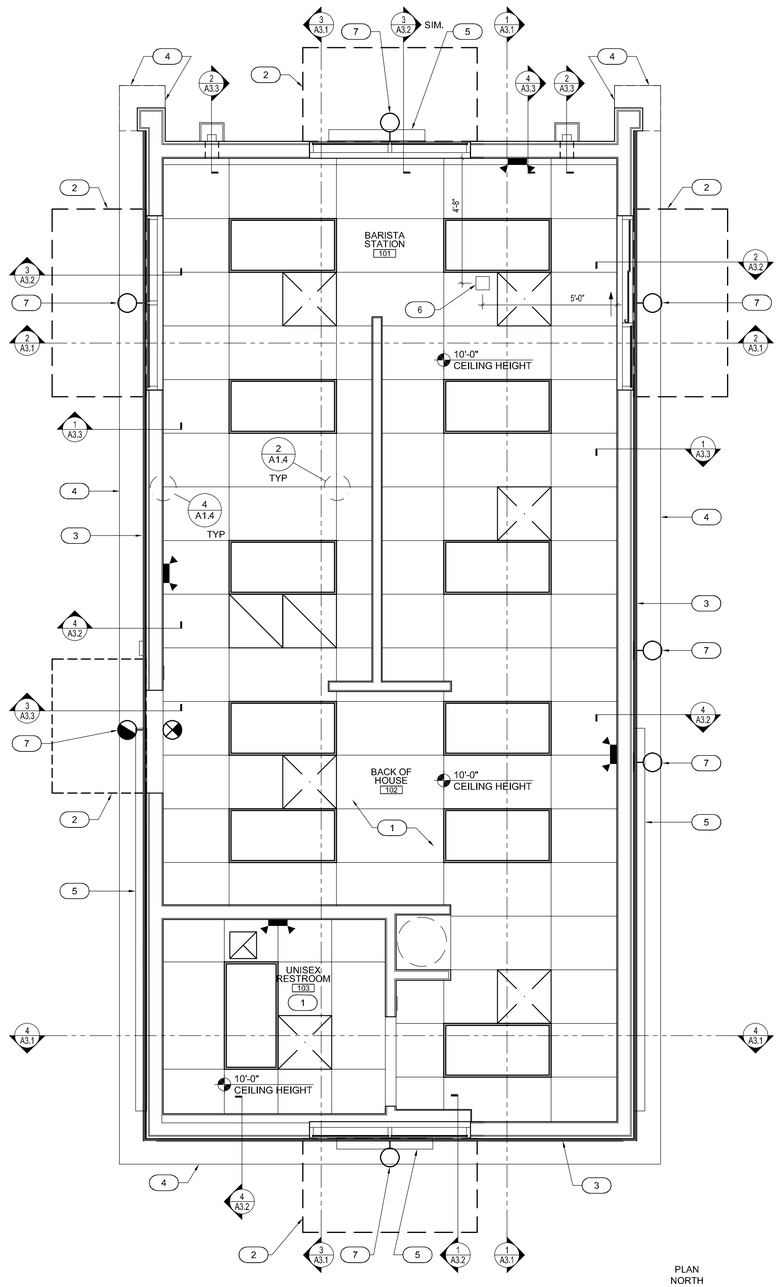


NOTE: ARMSTRONG GRID TO COMPLY WITH ICC ESR 1308 - HEAVY DUTY GRID SHALL BE USED IN SEISMIC ZONES C-F

NOTE:
PROVIDE HANGER WIRE AT EA. CORNER OF LIGHT FIXTURE, TYP. AT WOOD JOISTS, PROVIDE HILTI EL-S EYELET FASTNER, OR EQUAL.

2 SUSPENDED LAY-IN ACOUSTIC CEILING

SCALE: NTS



1 REFLECTED CEILING PLAN

SCALE: 3/8" = 1'-0"

CEILING LEGEND

SYMBOL	FIXTURE	NOTES
	2'x4' LIGHT FIXTURE WITH PRISMATIC LENS	RECESSED IN CEILING GRID AT +10'-0" A.F.F.
	SUPPLY AIR GRILLE TITUS TMS 3 BLADE DIFFUSER OR SIMILAR	RECESSED IN CEILING GRID AT +10'-0" A.F.F.
	RETURN AIR RH45T COMMERCIAL T-BAR ALUMINUM GRILLE	RECESSED IN CEILING GRID AT +10'-0" A.F.F.
	TOILET ROOM EXHAUST FAN	RECESSED IN CEILING GRID AT +10'-0" A.F.F.
	EXTERIOR WALL SCONCE	SURFACE MOUNTED
	EXTERIOR EMERGENCY WALL SCONCE	SURFACE MOUNTED
	LED EXIT SIGN	CEILING MOUNTED AT +10'-0" A.F.F.
	EMERGENCY LIGHT W/ BUG EYES	WALL MOUNTED AT +9'-0" A.F.F.
	PERIMETER LED STRIP LIGHT	SURFACE MOUNTED

NOTE: ALL LIGHTS TO BE PURCHASED BY FRANCHISEE OR GENERAL CONTRACTOR AND INSTALLED BY GENERAL CONTRACTOR.

CEILING MATERIAL LEGEND

ITEM	MFR (OR EQUAL)	MODEL NUMBER
TYPE "A"	ARMSTRONG	24" x 48" ARMSTRONG KITCHEN ZONE OR EQUAL TILES TO BE SMOOTH AND WASHABLE

GENERAL NOTES

A. WHERE LIGHT FIXTURES ARE MOUNTED IN A LAY-IN CEILING, PROVIDE A MINIMUM OF 2 SUPPORT WIRES ATTACHED DIRECTLY BETWEEN EACH LIGHT FIXTURE AND THE BUILDING STRUCTURE. SUPPORT WIRES AT OPPOSITE CORNERS, SHALL BE A MINIMUM OF 12 GAUGE GALVANIZED STEEL WIRE, SOFT ANNEALED.

B. FIXTURES ARE REQUIRED AT ALL LIGHTING OUTLETS SHOWN ON THE DRAWINGS. APPROVED LIGHTING FIXTURE WIRE IS REQUIRED IN ALL FIXTURES AND FIXTURE RACEWAYS. WEATHERPROOF WIRING IS REQUIRED FOR EXTERIOR FIXTURES. ALL PARTS OF FIXTURES AND WIRING SHALL BE IN ACCORDANCE WITH NECESSARY CODE REQUIREMENTS.

C. ALL FIXTURES SHALL CARRY UL AND ETL LABELS. ALL FLUORESCENT FIXTURE BALLASTS SHALL BE HIGH FREQUENCY ELECTRONIC BALLASTS WITH A TOTAL HARMONIC DISTORTION: OF LESS THAN 20%, REGARDLESS OF THE NUMBER OF LAMPS CONNECTED TO EACH BALLAST AND SHALL HAVE CBM LABEL. ALL FLUORESCENT FIXTURES INSTALLED SHALL INCORPORATE BALLAST PROTECTION. ALL FLUORESCENT BALLASTS SHALL HAVE AN AUDIBLE NOISE RATING OF "CLASS A" OR BETTER. ALL FLUORESCENT BALLASTS SHALL HAVE A POWER FACTOR GREATER THAN 98% WHEN USED WITH PRIMARY LAMP.

CEILING SPECIFICATION
ACOUSTICAL CEILING SYSTEM
EXPOSED TEE GRID ARMSTRONG PRELUDE XL 15/16 EXPOSED TEE GRID SYSTEMS OR EQUIVALENT AND INSTALL PER ICC 1308 (ARMSTRONG)

HANGER WIRE, MINIMUM 12 GA. AWG GALVANIZED SOFT ANNEALED, MILD STEEL WIRE.

HANGER CLIPS, PREFABRICATED METAL CLAMPS, EYELET SCREWS FOR FASTENING TO STRUCTURAL WOOD MEMBERS.

ACOUSTICAL CEILING TILE:
24 x 48 CEILING TO BE SMOOTH AND WASHABLE
KITCHEN ZONE #672, BY ARMSTRONG WORLD INDUSTRIES (OR EQUAL)

KEYNOTES - REFLECTED CEILING

#

1. NEW 2' x 4' WASHABLE LAY-IN CEILING TILES. (FIRE RATING - CLASS A)
2. AWNING FURNISHED AND INSTALLED BY GC. MFG: SUNBRELLA/COLOR: RED. CONTRACTOR TO FIELD VERIFY COLOR WITH SCOOTER'S CORPORATE PRIOR TO ORDER AND INSTALL
3. PERIMETER LED AT EXTERIOR SOFFIT, REFER TO ELECTRICAL DRAWINGS.
4. HARDIE-PANEL AT SOFFIT & CORNICE.
5. SIGNAGE FURNISHED AND INSTALLED BY OTHERS, UNDER A SEPARATE PERMIT. G.C. TO PROVIDE BLOCKING FOR SIGNAGE.
6. ACCESS POINT LOCATION, CEILING MOUNTED.
7. EXTERIOR LIGHTING, REFER TO ELEVATIONS FOR LOCATIONS; REFER TO ELECTRICAL DRAWINGS.

REGISTRATION SEAL
NORTH CAROLINA
PROFESSIONAL
SEAL
6408
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FREDERICK J. GOGLIA
4/16/25

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SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
1	04/16/25	BD & CLIENT COMMENTS	SW
2			
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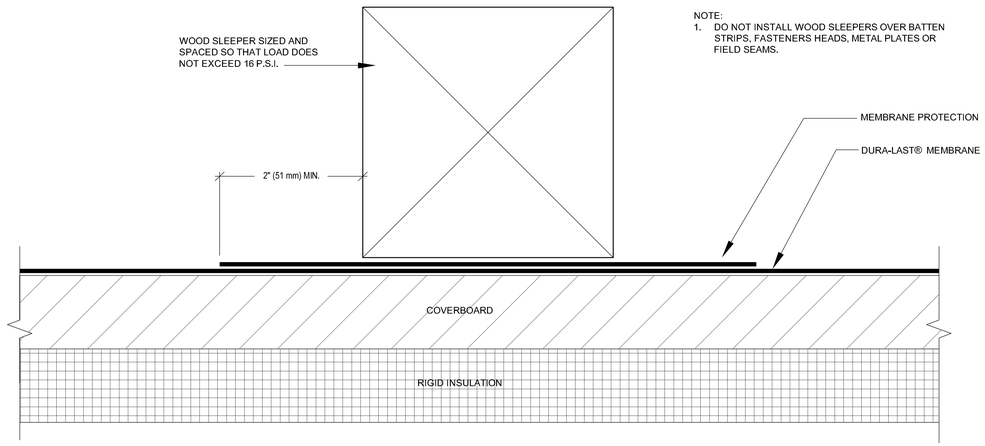
TITLE:
REFLECTED CEILING PLAN

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

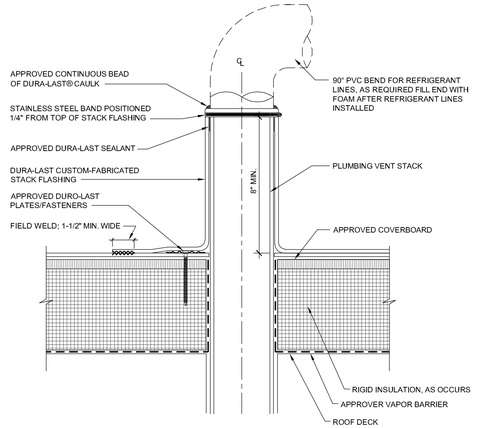
KIOSK PROTOTYPE:
4.2 REVERSE PROTOTYPE
JUNE 2024
ISSUE DATE:
03/21/2024
PROJECT NO.
240761
DRAWN BY:
AGG
CHECKED BY:
SW

SHEET NO.
A1.4



4 WOOD SLEEPER

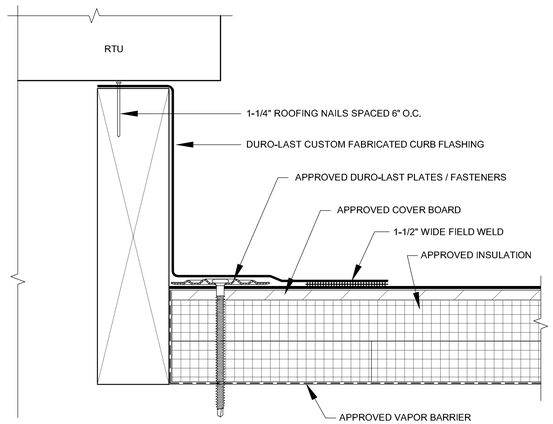
SCALE: NTS



NOTES:
1. LEAD FLASHINGS MUST BE REMOVED PRIOR TO INSTALLING DURO-LAST STACK FLASHINGS.
2. DECK MEMBRANE SHALL BE FASTENED AROUND THE PERIMETER OF THE DURO-LAST STACK FLASHING AS PER THE RESPECTIVE ZONE OF THE DURO-LAST STACK FLASHING IS LOCATED WITHIN (FIELD, PERIMETER, CORNER), NO LESS THAN ONE FASTENER PER FLASHING.
3. ALL FIELD WELDS SHALL BE A MINIMUM OF 1-1/2 WIDE.
4. REFER TO SPECIFICATIONS FOR VAPOR BARRIER, INSULATION AND COVER BOARD REQUIREMENTS.

3 PLUMBING VENT STACK

SCALE: NTS



NOTES:
1. DECK MEMBRANE SHALL BE FASTENED AROUND PERIMETER OF ROOF PENETRATION AS PER RESPECTIVE ZONE THE ROOF ACCESS HATCH IS LOCATED WITHIN (FIELD, PERIMETER, CORNER).
2. ALL FIELD WLEDS SHALL BE A MINIMUM OF 1-1/2 WIDE.
3. REFER TO SPECIFICATIONS FOR VAOPER BARRIER, INSULATION AND COVER BOARD REQUIREMENTS

NOTE:
REFERENCE DURO-LAST DETAIL 4020

2 RECTANGULAR PENETRATION FOR MECHANICALLY FASTENED SYSTEMS

SCALE: NTS

ROOF ASSEMBLIES

DURO-LAST 50-MIL MEMBRANE OVER DURO-GUARD® ISO II INSULATION BOARD; REFER TO SPECIFICATIONS FOR ROOF ASSEMBLY.

ROOF DRAIN CALCULATIONS

ROOF AREA: 597 SQ.FT.
PARAPET AREA: 159 SQ.FT.
TOTAL AREA: 756 SQ.FT.

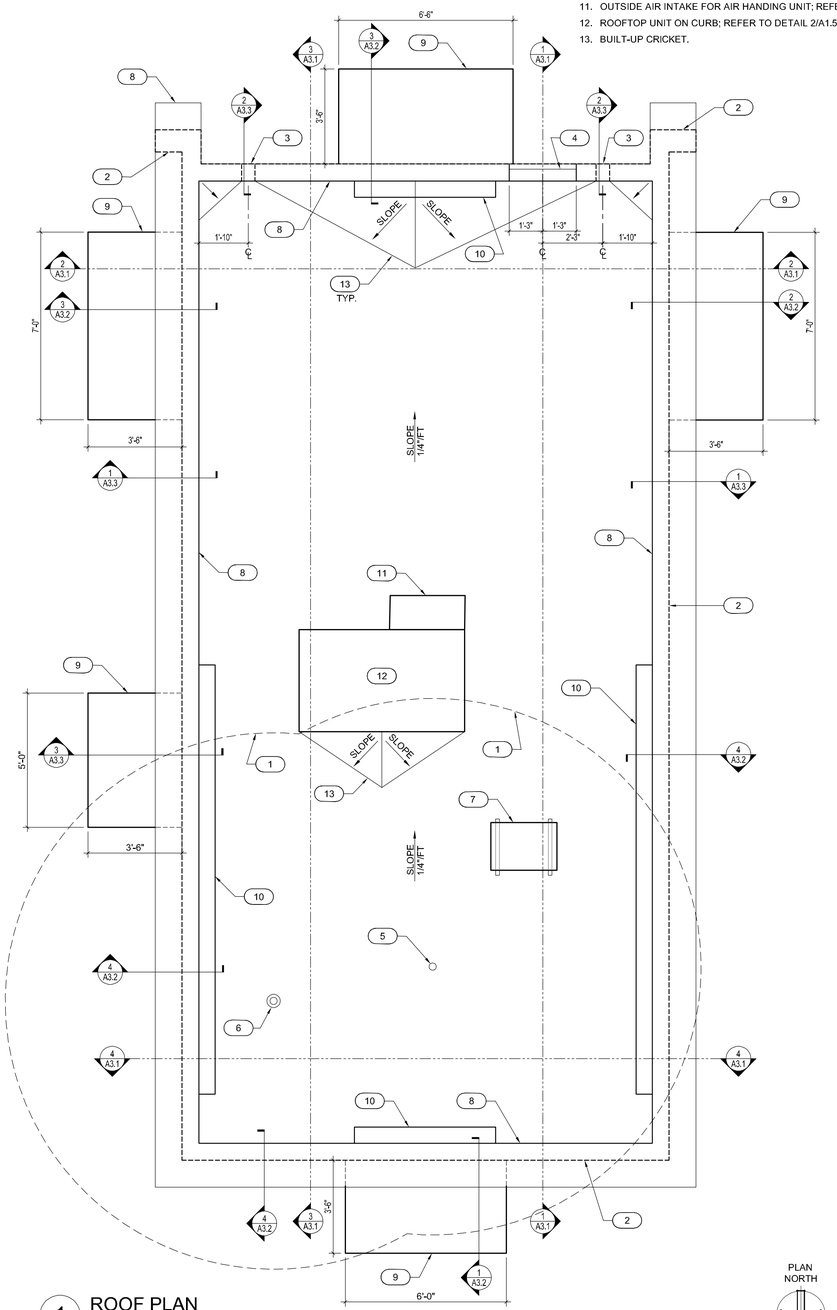
MINIMUM REQUIRED SCUPPER (WORSE CASE 6" PER HOUR): 2"x3"
PROVIDED: (2) 6" x 4" MAIN SCUPPER OPENINGS AND (2) 4"x4" CONDUCTOR HEAD OPENINGS FOR OVERFLOW
PROVIDED: VERTICAL 4"x3" DOWNSPOUTS

NOTE: ROOF IS DESIGNED TO HOLD ANY POTENTIAL PONDING WATER IF ONE ROOF SCUPPER SHOULD BECOME CLOGGED.

KEYNOTES - ROOF

#

1. PER CODE; NO AIR INTAKES MAY BE WITHIN A 10' RADIUS OF A VENT OR EXHAUST.
2. DASHED LINE REPRESENTS WALL BELOW PARAPET.
3. THRU WALL ROOF SCUPPER.
4. OPENING IN PARAPET FOR ROOF ACCESS.
5. VENT; REFER TO DETAIL 3/A1.5 & PLUMBING DRAWINGS.
6. 6" GOOSENECK FOR EXHAUST; REFER TO DETAIL 3/A1.5 & PLUMBING DRAWINGS.
7. CONDENSING UNIT ON REDWOOD SLEEPERS; REFER TO DETAIL 4/A1.5 AND MECHANICAL DRAWINGS. REFRIGERATION LINES ARE TO BE PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR. CONTRACTOR TO SET CONDENSING UNIT ON ROOF WHEN OTHER ROOFTOP EQUIPMENT IS SET. (1)
8. PRE-FINISHED METAL PARAPET CAP. (1)
9. AWNING FURNISHED AND INSTALLED BY GC. MFG: SUNBRELLA/COLOR: RED. CONTRACTOR TO FIELD VERIFY COLOR WITH SCOOTER'S CORPORATE PRIOR TO ORDER AND INSTALL
10. BACK OF PARAPET WILL HAVE A WIRING CABINET FOR BUILDING SIGNAGE. ROOFER SHALL PROPERLY SEAL AROUND BOX TO MEET MANUFACTURERS STANDARD DETAIL, 7/A0.4. SIGNAGE UNDER SEPARATE PERMIT.
11. OUTSIDE AIR INTAKE FOR AIR HANDING UNIT; REFER TO MECHANICAL DRAWINGS.
12. ROOFTOP UNIT ON CURB; REFER TO DETAIL 2/A1.5 AND MECHANICAL DRAWINGS.
13. BUILT-UP CRICKET.



1 ROOF PLAN

SCALE: 3/8" = 1'-0"

REGISTRATION SEAL
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4/16/25

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SCOOTER'S COFFEE EST. 1998

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TITLE:

ROOF PLAN

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

KIOSK PROTOTYPE:
4.2 REVERSE PROTOTYPE
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DRAWN BY:
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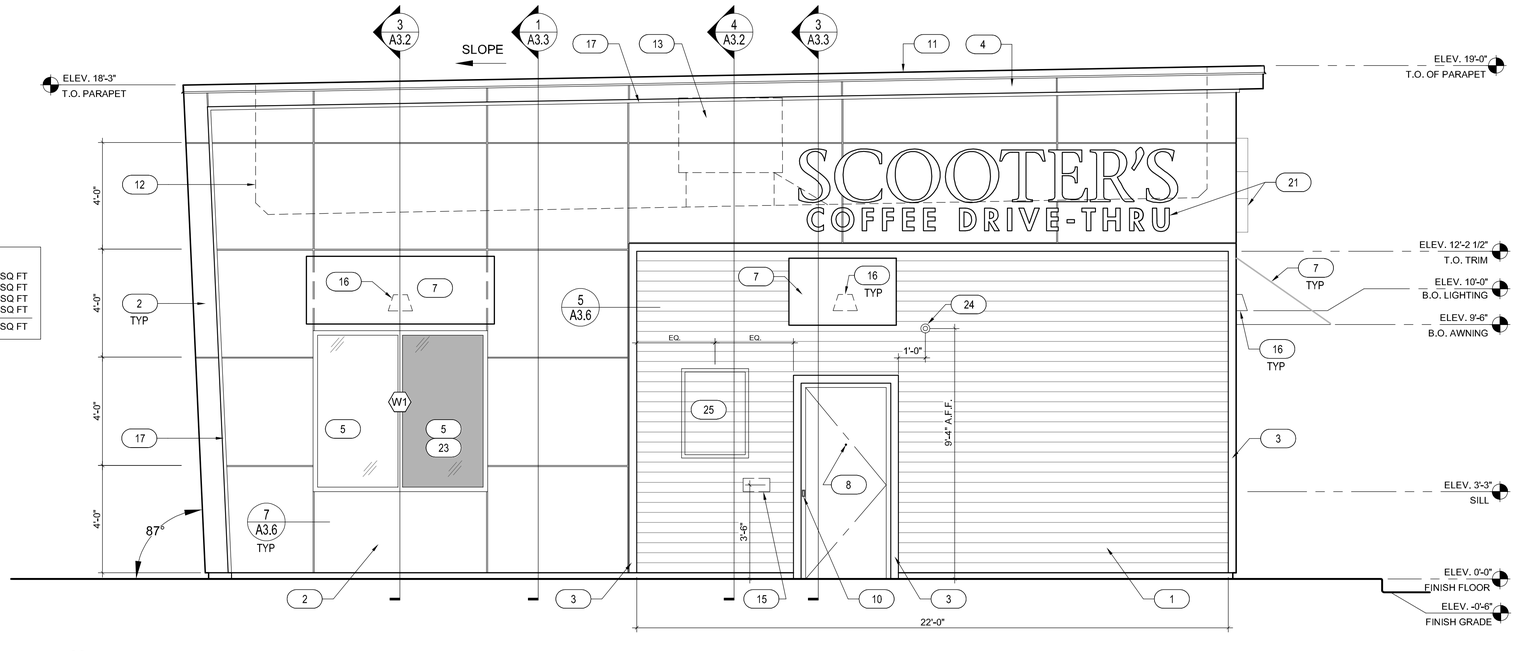
SW

SHEET NO.

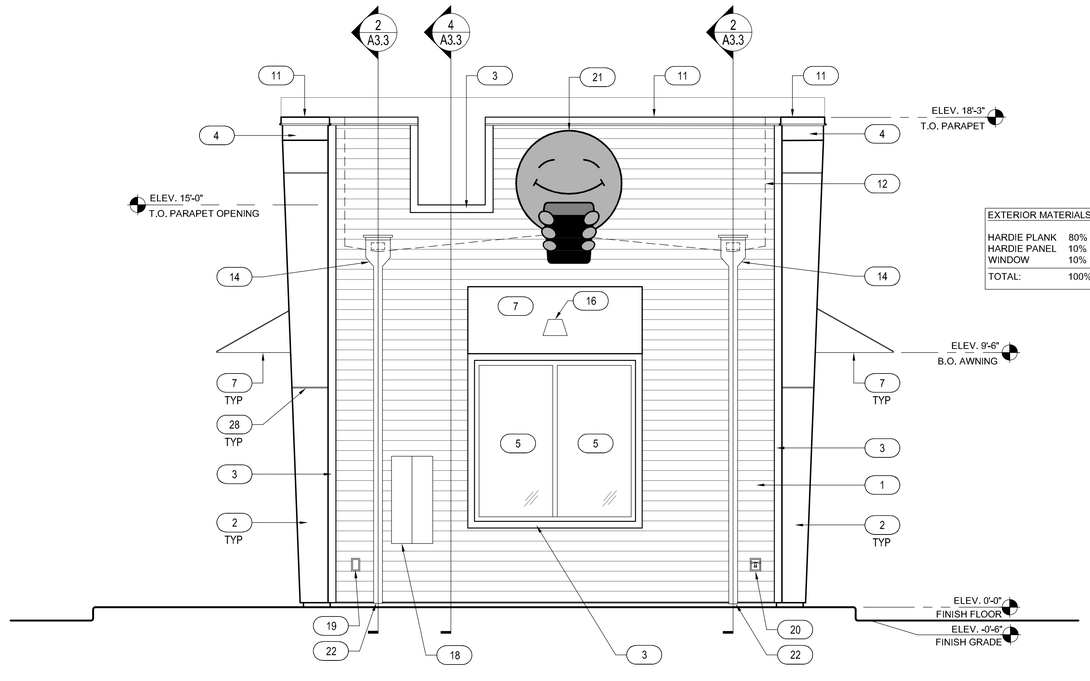
A1.5



EXTERIOR MATERIALS		
HARDIE PLANK	29%	208 SQ FT
HARDIE PANEL	56%	397 SQ FT
WINDOWS	11%	78 SQ FT
DOOR	4%	24 SQ FT
TOTAL:	100%	708 SQ FT

2 EAST EXTERIOR ELEVATION

SCALE: 3/8" = 1'-0"



EXTERIOR MATERIALS		
HARDIE PLANK	80%	271 SQ FT
HARDIE PANEL	10%	36 SQ FT
WINDOW	10%	36 SQ FT
TOTAL:	100%	343 SQ FT

1 SOUTH EXTERIOR ELEVATION

SCALE: 3/8" = 1'-0"

KEYNOTES

X

1. HARDIE PLANK LAP SIDING CEDARMILL 6-1/4", REFER TO EXTERIOR FINISH DETAILS ON SHEET A3.6 - COLOR: SHERWIN WILLIAMS SW6992 INKWELL EGGSHELL FINISH
2. 4' x 8' HARDIE ARCHITECTURAL PANEL. FINISH: FINE SAND, COLOR: SW 1015 SKYLINE STEEL. REFER TO SHEET A3.6 FOR HARDIE PANEL DETAILS
3. 3 1/2" HARDIE TRIM, SEE HARDIE DETAIL SHEET A3.6 - COLOR: SHERWIN WILLIAMS SW6992 INKWELL EGGSHELL FINISH
4. HARDIE ARCHITECTURAL PANEL AT FASCIA AND SOFFIT. FINISH: FINE SAND, COLOR: SW 1015 SKYLINE STEEL. REFER TO SHEET A3.6 FOR HARDIE PANEL DETAILS.
5. INSULATED DARK BRONZE ALUMINUM WINDOWS WITH DUAL PANE TEMPERED GLASS
6. QUICKSERVE WINDOW - COLOR: DARK BRONZE
7. AWNING FURNISHED AND INSTALLED BY GC. MFG: SUNBRELLA/COLOR: RED. CONTRACTOR TO FIELD VERIFY COLOR WITH SCOOTER'S CORPORATE PRIOR TO ORDER AND INSTALL
8. INSULATED HOLLOW METAL DOOR AND FRAME - COLOR: SHERWIN WILLIAMS SW6992 INKWELL EGGSHELL FINISH
9. PEEP HOLE, BY DOOR MANUFACTURER
10. DOOR BELL
11. 20 GAUGE METAL PARAPET CAP - COLOR: MATTE BLACK
12. LINE OF ROOF BEYOND
13. ROOF TOP UNIT BEYOND, REFER TO MECHANICAL DRAWINGS
14. ROOF SCUPPER AND DOWNSPOUT, REFER TO DETAIL 8/A3.4
15. CONTRACTOR SHALL PROVIDE A BLACK MAILBOX APPROXIMATELY 15 INCHES WIDE BY 6 INCHES TALL. MAILBOX SHALL BE EQUAL TO GIBRALTAR WALL MOUNTED METAL BOX
16. WALL MOUNTED LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS
17. LED LIGHT BAND, REFER TO ELECTRICAL DRAWINGS
18. ELECTRICAL SERVICE, REFER TO ELECTRICAL DRAWINGS
19. ELECTRICAL OUTLETS, SEE ELECTRICAL DRAWINGS
20. HOSE BIBB, SEE PLUMBING DRAWINGS
21. SIGNAGE BY OTHERS, UNDER A SEPARATE PERMIT
22. SEE DETAIL 7/A3.4 FOR DOWNSPOUT TERMINATION
23. SPANDREL GLASS; REFER TO WINDOW SCHEDULE
24. NEW SECURITY CAMERA BY OTHERS
25. OWNER PROVIDED SIGN PANELS.
26. NOT USED.
27. APPROVED SET OF NUMBERALS, MINIMUM 4" HIGH WITH A STROKE WIDTH NOT LESS THAN 1/2 INCH, SHALL BE PLACED ON THE BUILDING. VERIFY SIZE AND REQUIREMENTS WITH FIRE MARSHAL.

APPROVED ALTERNATE FINISHES
ALLURA SIDING - TRADITIONAL CEDAR 6-1/4" WIDTH
ALLURA PANEL - SMOOTH 4' x 8' PANELS
ALLURA TRIM - SIZE 5/4, 3" WIDTH 1" THICK

REGISTRATION SEAL
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EST. 1998 SCOOTER'S COFFEE

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1	04/16/25	BD & CLIENT COMMENTS	SW
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TITLE:
EXTERIOR ELEVATIONS

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

KIOSK PROTOTYPE:
4.2 REVERSE PROTOTYPE
JUNE 2024
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240761
DRAWN BY:
AGG
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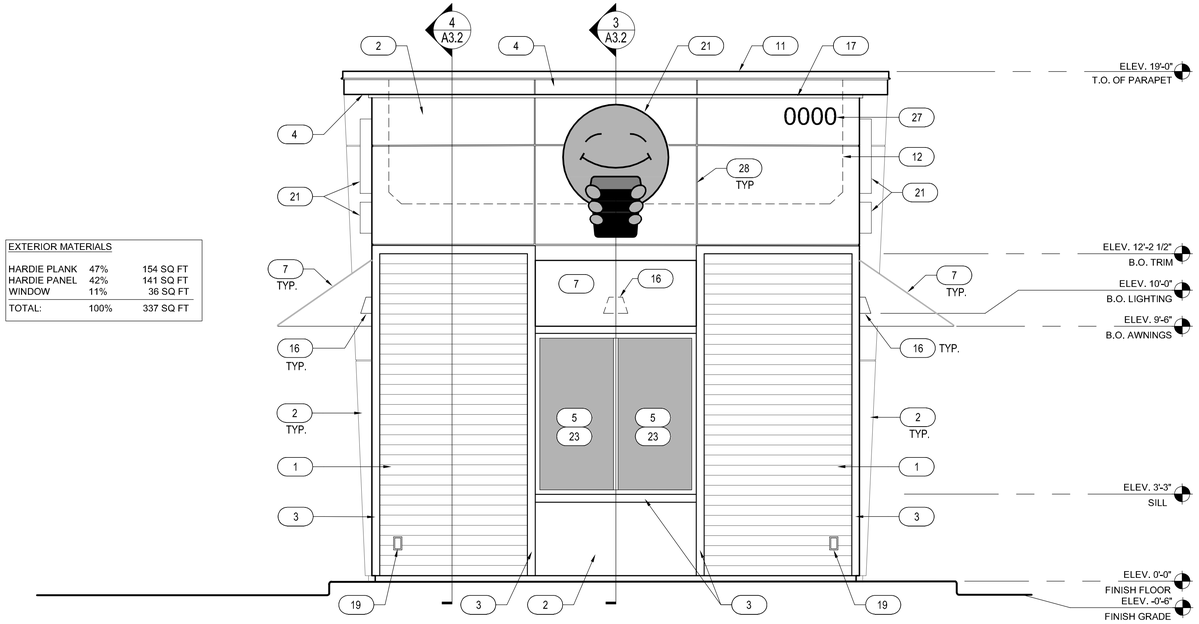
SW

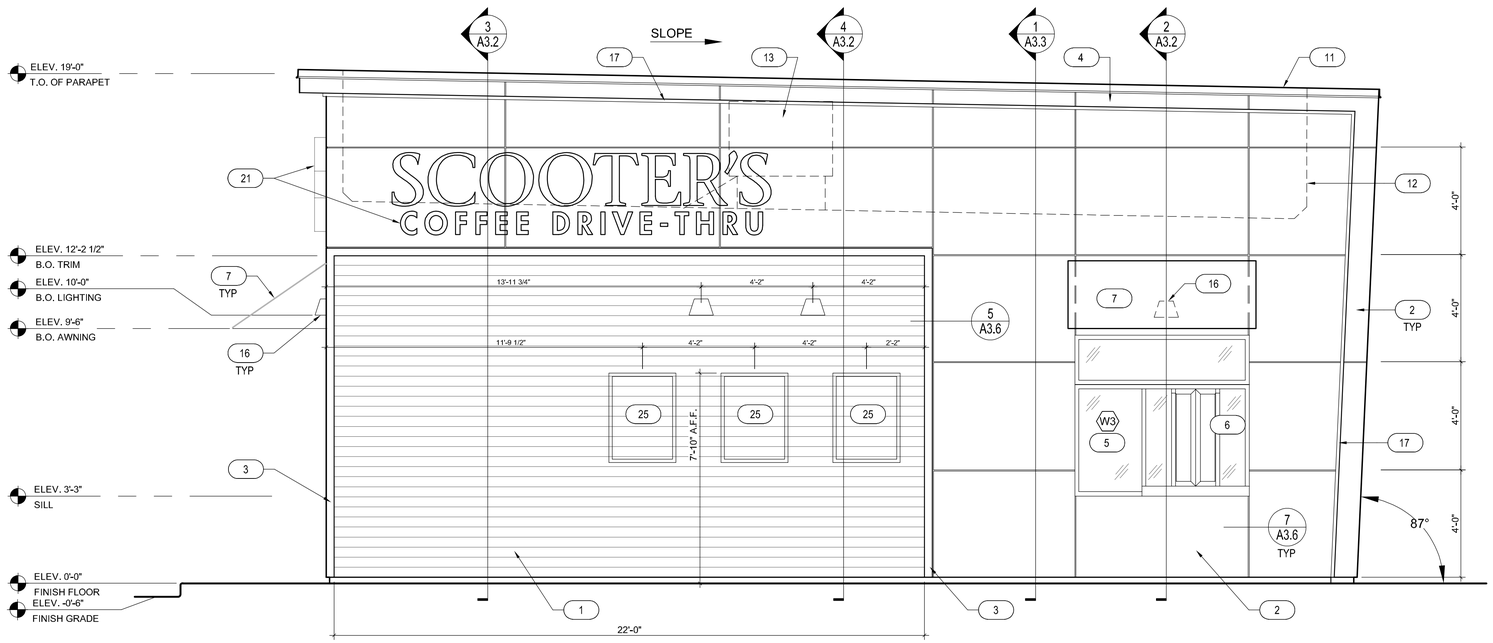
SHEET NO.
A2.1

EXTERIOR MATERIALS		
HARDIE PLANK	47%	154 SQ FT
HARDIE PANEL	42%	141 SQ FT
WINDOW	11%	36 SQ FT
TOTAL:	100%	337 SQ FT



2 NORTH EXTERIOR ELEVATION

SCALE: 3/8" = 1'-0"



1 WEST EXTERIOR ELEVATION

SCALE: 3/8" = 1'-0"

EXTERIOR MATERIALS		
HARDIE PLANK	33%	232 SQ FT
HARDIE PANEL	56%	397 SQ FT
WINDOWS	11%	78 SQ FT
TOTAL:	100%	708 SQ FT

KEYNOTES (X)

1. HARDIE PLANK LAP SIDING CEDARMILL 6-1/4", REFER TO EXTERIOR FINISH DETAILS ON SHEET A3.6 - COLOR: SHERWIN WILLIAMS SW6992 INKWELL EGGSHELL FINISH
2. 4' x 8' HARDIE ARCHITECTURAL PANEL. FINISH: FINE SAND, COLOR: SW 1015 SKYLINE STEEL. REFER TO SHEET A3.6 FOR HARDIE PANEL DETAILS
3. 3 1/2" HARDIE TRIM, SEE HARDIE DETAIL SHEET A3.6 - COLOR: SHERWIN WILLIAMS SW6992 INKWELL EGGSHELL FINISH
4. HARDIE ARCHITECTURAL PANEL AT FASCIA AND SOFFIT. FINISH: FINE SAND, COLOR: SW 1015 SKYLINE STEEL. REFER TO SHEET A3.6 FOR HARDIE PANEL DETAILS.
5. INSULATED DARK BRONZE ALUMINUM WINDOWS WITH DUAL PANE TEMPERED GLASS
6. QUICKSERVE WINDOW - COLOR: DARK BRONZE
7. AWNING FURNISHED AND INSTALLED BY GC. MFG: SUNBRELLA/COLOR: RED. CONTRACTOR TO FIELD VERIFY COLOR WITH SCOOTER'S CORPORATE PRIOR TO ORDER AND INSTALL
8. INSULATED HOLLOW METAL DOOR AND FRAME - COLOR: SHERWIN WILLIAMS SW6992 INKWELL EGGSHELL FINISH
9. PEEP HOLE, BY DOOR MANUFACTURER
10. DOOR BELL
11. 20 GAUGE METAL PARAPET CAP - COLOR: MATTE BLACK
12. LINE OF ROOF BEYOND
13. ROOF TOP UNIT BEYOND, REFER TO MECHANICAL DRAWINGS
14. ROOF SCUPPER AND DOWNSPOUT, REFER TO DETAIL 8/A3.4
15. CONTRACTOR SHALL PROVIDE A BLACK MAILBOX APPROXIMATELY 15 INCHES WIDE BY 6 INCHES TALL. MAILBOX SHALL BE EQUAL TO GIBRALTAR WALL MOUNTED METAL BOX
16. WALL MOUNTED LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS
17. LED LIGHT BAND, REFER TO ELECTRICAL DRAWINGS
18. ELECTRICAL SERVICE, REFER TO ELECTRICAL DRAWINGS
19. ELECTRICAL OUTLETS, SEE ELECTRICAL DRAWINGS
20. HOSE BIBB, SEE PLUMBING DRAWINGS
21. SIGNAGE BY OTHERS, UNDER A SEPARATE PERMIT
22. SEE DETAIL 7/A3.4 FOR DOWNSPOUT TERMINATION
23. SPANDREL GLASS; REFER TO WINDOW SCHEDULE
24. NEW SECURITY CAMERA BY OTHERS
25. OWNER PROVIDED SIGN PANELS.
26. NOT USED.
27. APPROVED SET OF NUMBERALS, MINIMUM 4" HIGH WITH A STROKE WIDTH NOT LESS THAN 1/2 INCH, SHALL BE PLACED ON THE BUILDING. VERIFY SIZE AND REQUIREMENTS WITH FIRE MARSHAL.

APPROVED ALTERNATE FINISHES

ALLURA SIDING - TRADITIONAL CEDAR 6-1/4" WIDTH
ALLURA PANEL - SMOOTH 4' x 8' PANELS
ALLURA TRIM - SIZE 5/4, 3" WIDTH 1" THICK

REGISTRATION SEAL
NORTH CAROLINA REGISTERED SEAL 6408 ARCHITECT FREDERICK J. GOGLIA
4/16/25

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TITLE:
EXTERIOR ELEVATIONS

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

KIOSK PROTOTYPE:
4.2 REVERSE PROTOTYPE
JUNE 2024
ISSUE DATE:
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240761
DRAWN BY:
AGG
CHECKED BY:
SW

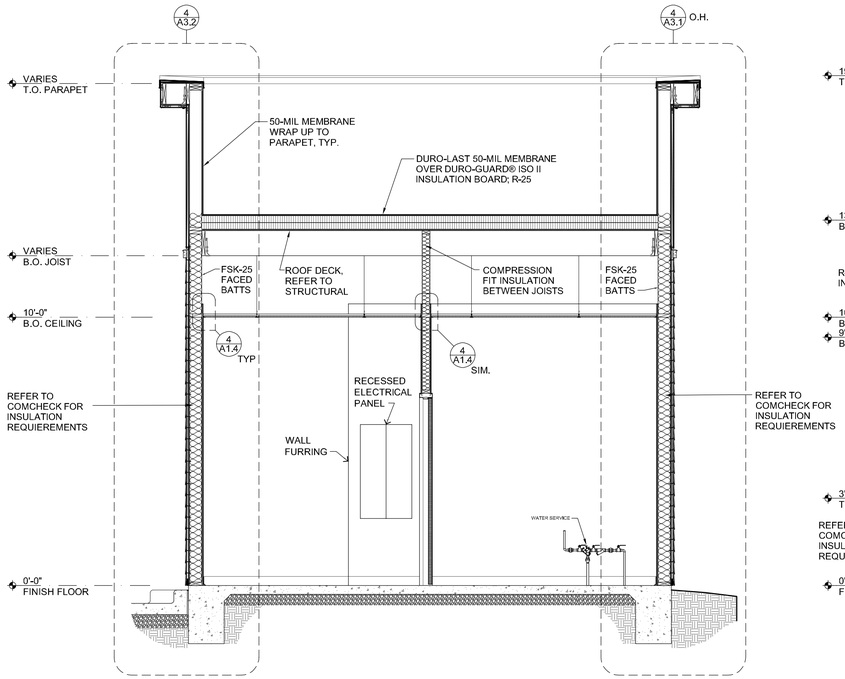
SHEET NO.
A2.2

GENERAL NOTES

A. REFER TO SHEET A2.2 FOR FINISH DESIGNATION

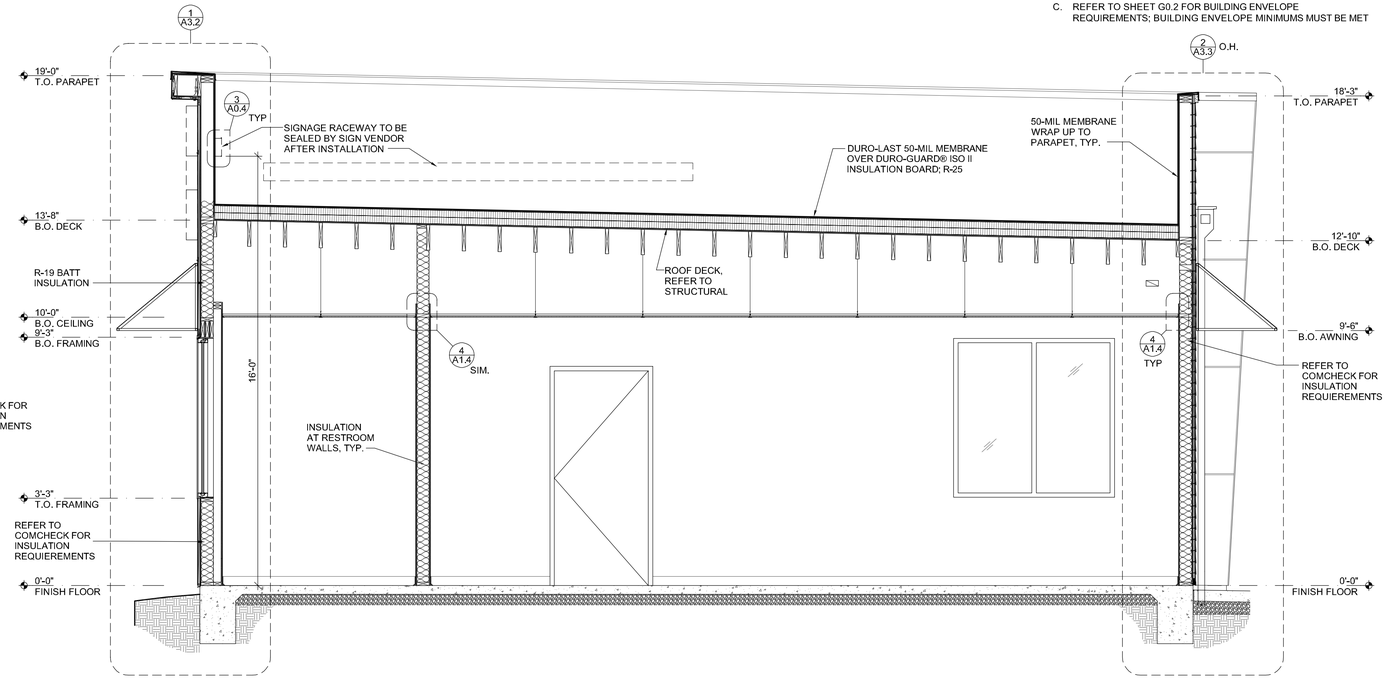
B. REFER TO SHEET A2.3 FOR EQUIPMENT INFORMATION

C. REFER TO SHEET G0.2 FOR BUILDING ENVELOPE REQUIREMENTS; BUILDING ENVELOPE MINIMUMS MUST BE MET



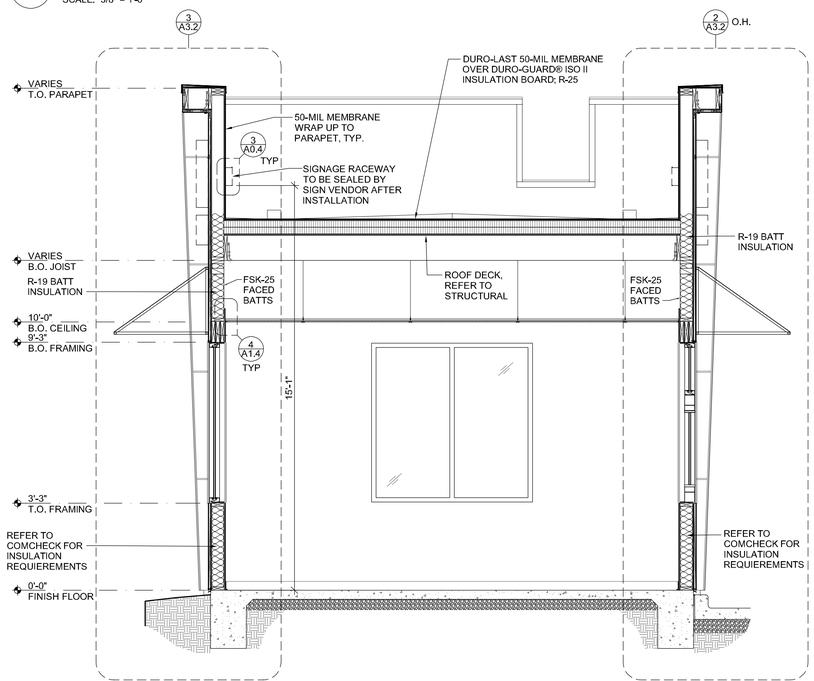
4 BUILDING SECTION AT FRONT WALL

SCALE: 3/8" = 1'-0"



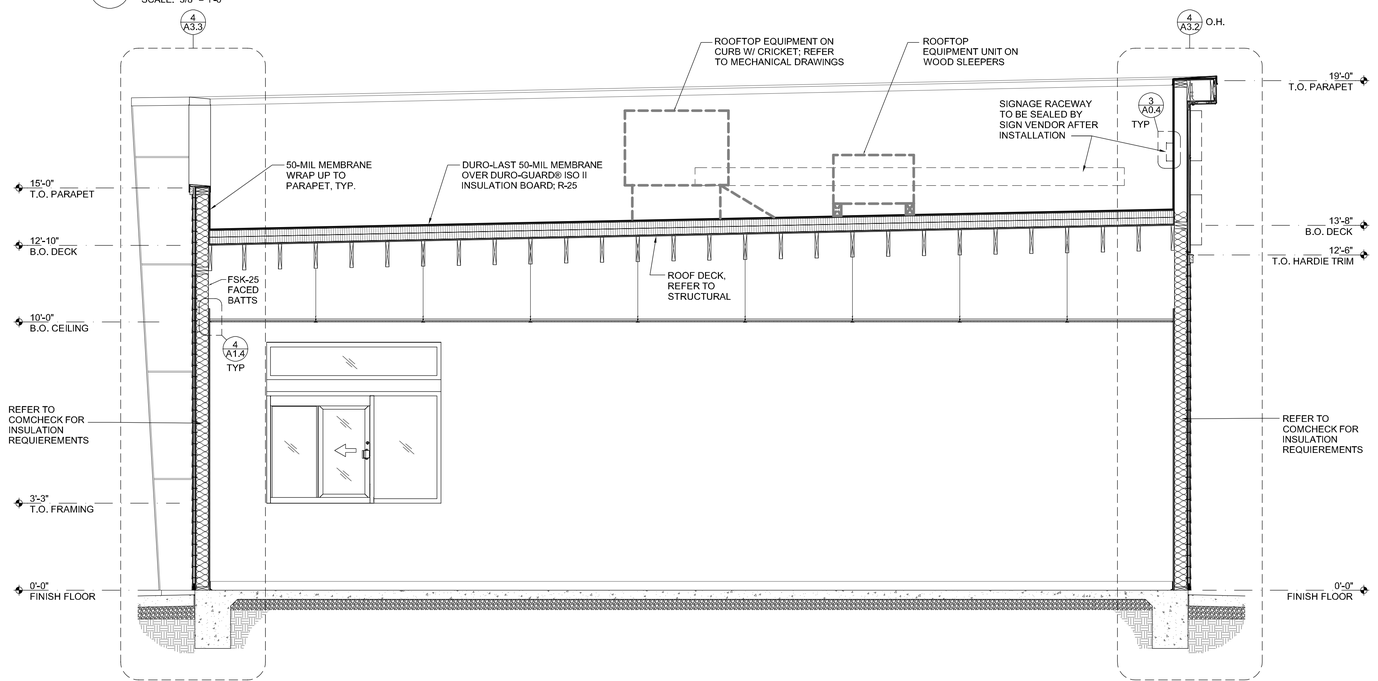
3 BUILDING SECTION SIDE WALL

SCALE: 3/8" = 1'-0"



2 BUILDING SECTION AT REAR WALL

SCALE: 3/8" = 1'-0"



1 BUILDING SECTION AT DRIVE-THRU

SCALE: 3/8" = 1'-0"

REGISTRATION SEAL
NORTH CAROLINA REGISTERED SEAL 6408 ARCHITECT FREDERICK J. GOGLIA
4/16/25

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TITLE:
BUILDING SECTIONS

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
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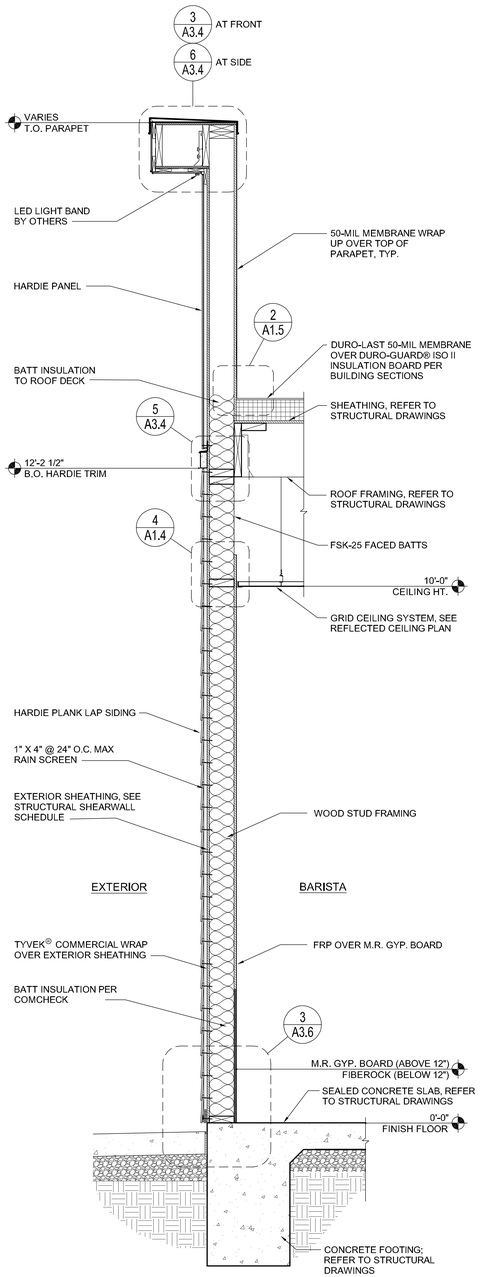
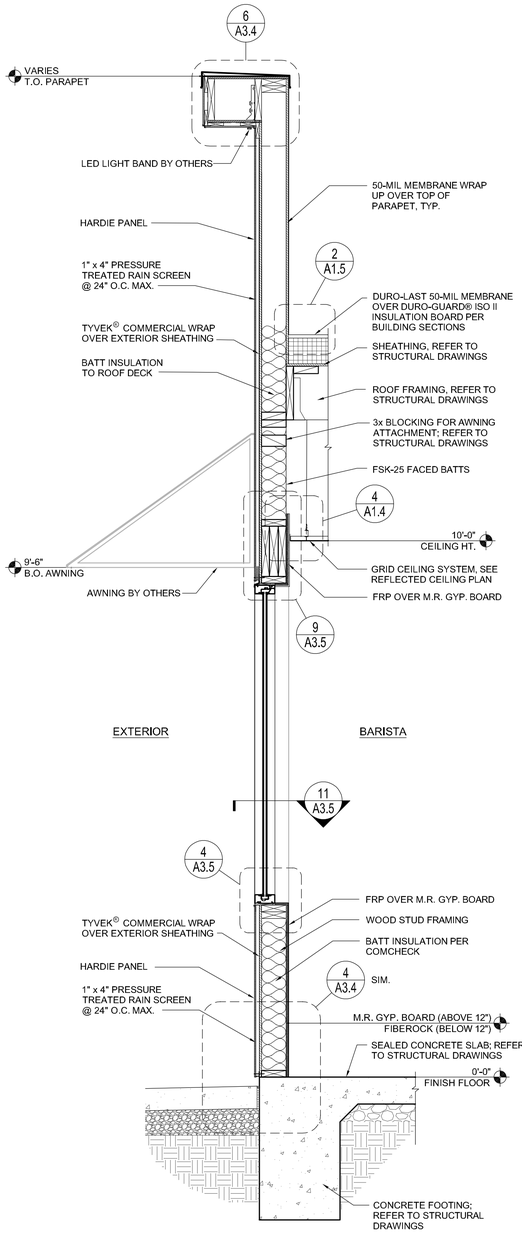


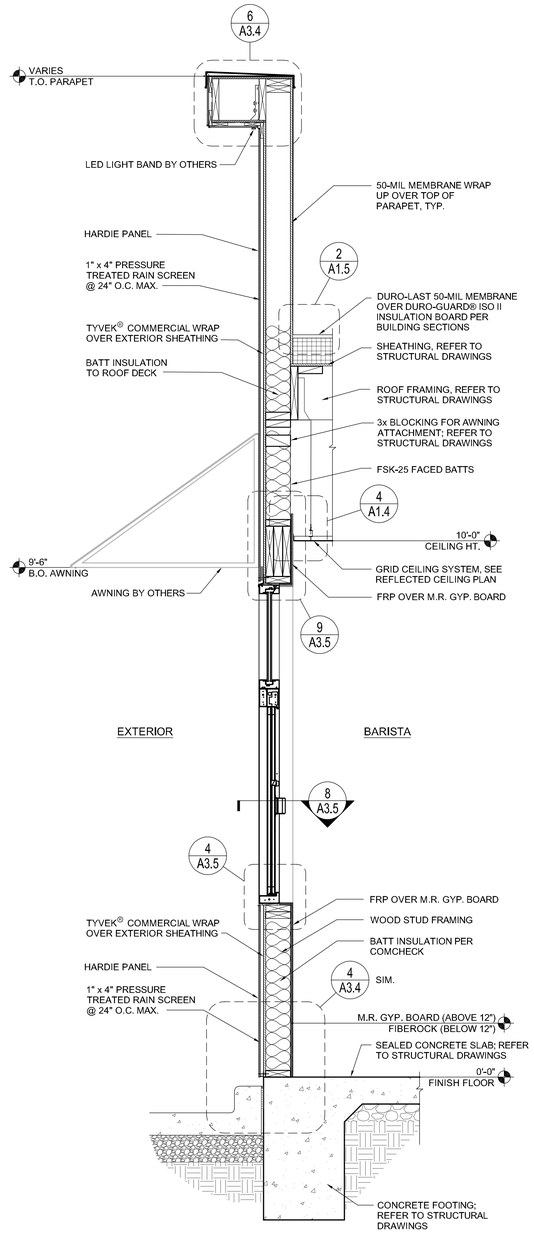
4 WALL SECTION @ SIDING TRANSITION

SCALE: 3/4" = 1'-0"



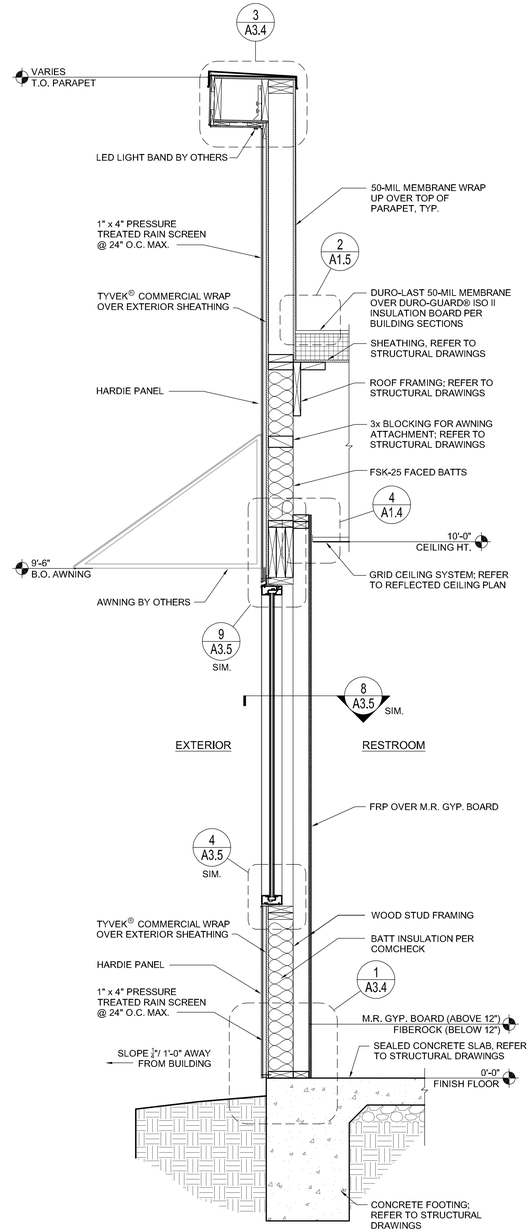
3 WALL SECTION @ SIDE WINDOW

SCALE: 3/4" = 1'-0"



2 WALL SECTION @ DRIVE-THRU WINDOW

SCALE: 3/4" = 1'-0"



1 WALL SECTION @ FRONT WINDOW

SCALE: 3/4" = 1'-0"

REGISTRATION SEAL

NORTH CAROLINA REGISTERED SEAL 6408 ARCHITECT FREDERICK J. GOGLIA

4/16/25

FREDERICK J. GOGLIA
ARCHITECT, NCARB, RDI
1930 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcvi.com

SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
1			
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TITLE:
WALL SECTIONS

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

KIOSK PROTOTYPE:
4.2 REVERSE PROTOTYPE
JUNE 2024

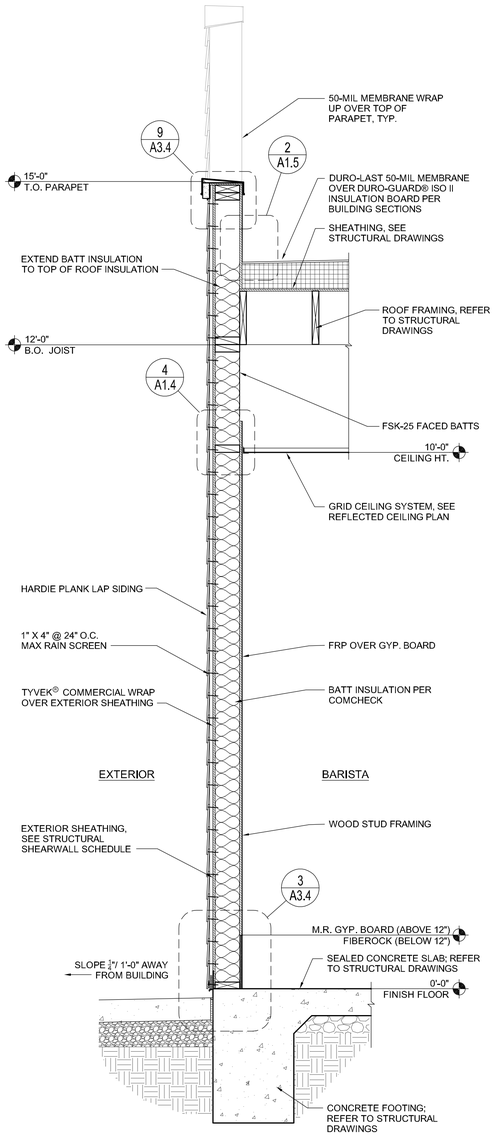
ISSUE DATE:
03/21/2024

PROJECT NO.
240761

DRAWN BY:
AGG

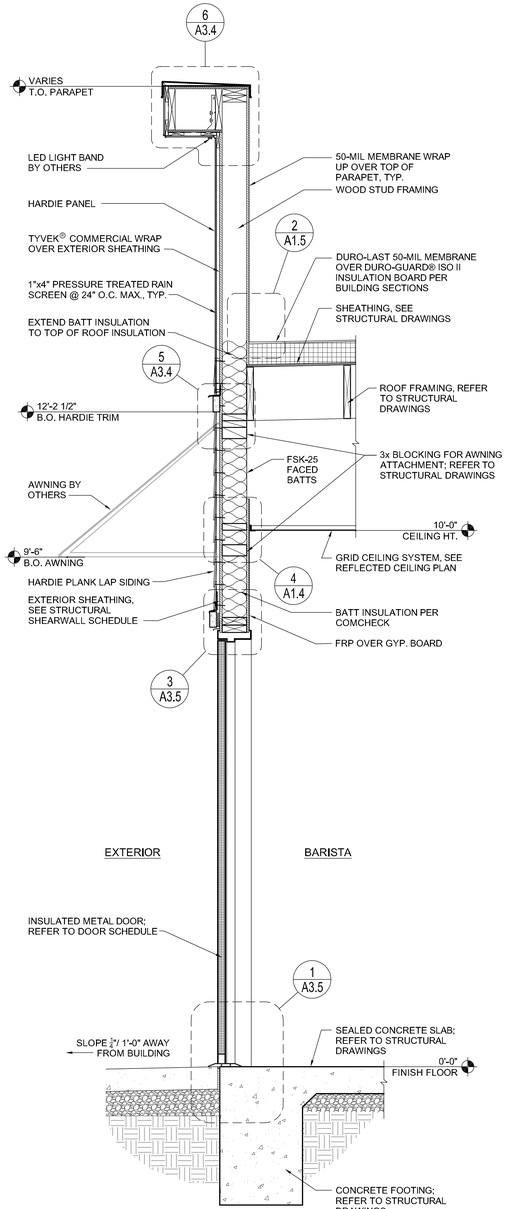
CHECKED BY:
SW

SHEET NO.
A3.2



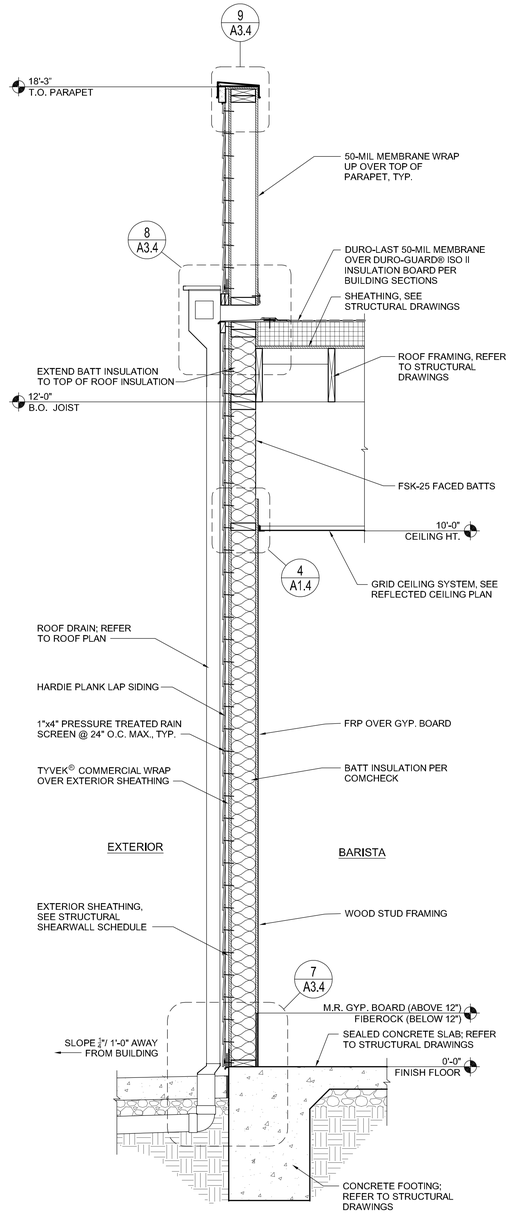
4 WALL SECTION @ ROOF ACCESS

SCALE: 3/4" = 1'-0"



3 WALL SECTION @ DOOR

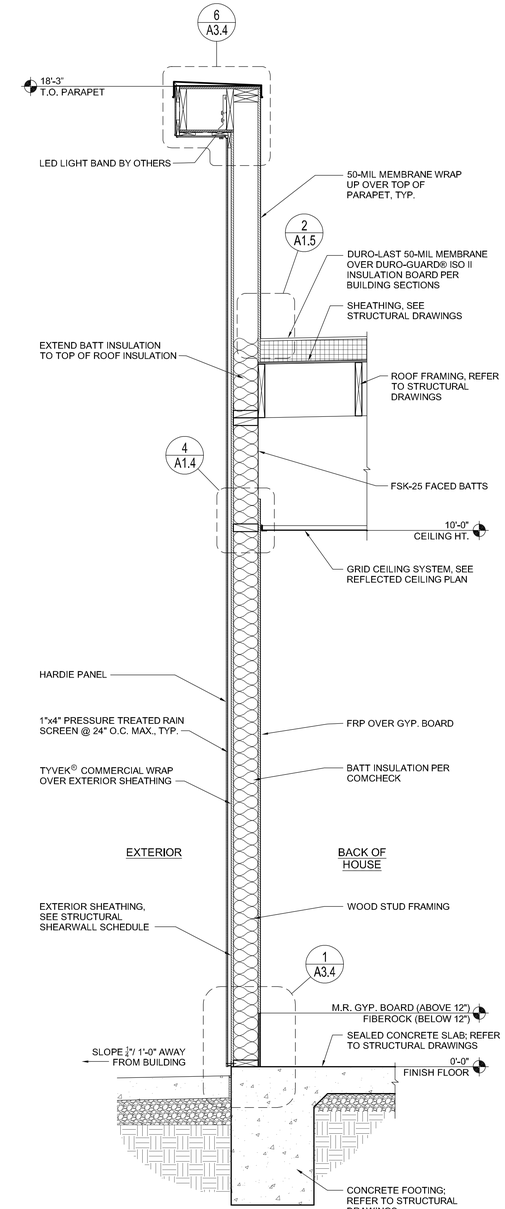
SCALE: 3/4" = 1'-0"



NOTE: G.C. TO COORDINATE ROOF DRAIN / DOWNSPOUT CONNECTION AT THE BASE OF BUILDING, WITH CIVIL ENGINEER'S DRAWINGS.

2 WALL SECTION @ DOWNSPOUT

SCALE: 3/4" = 1'-0"



1 WALL SECTION @ HARDIE-PANELS

SCALE: 3/4" = 1'-0"

REGISTRATION SEAL
NORTH CAROLINA
REGISTERED
SEAL
6408
ARCHITECT
FREDERICK J. GOGLIA
4/16/25

FREDERICK J. GOGLIA
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1930 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcvi.com

SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
1			
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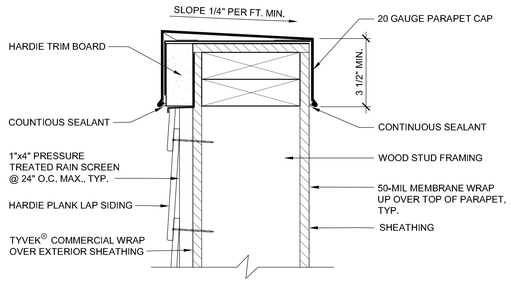
TITLE:
WALL SECTIONS

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

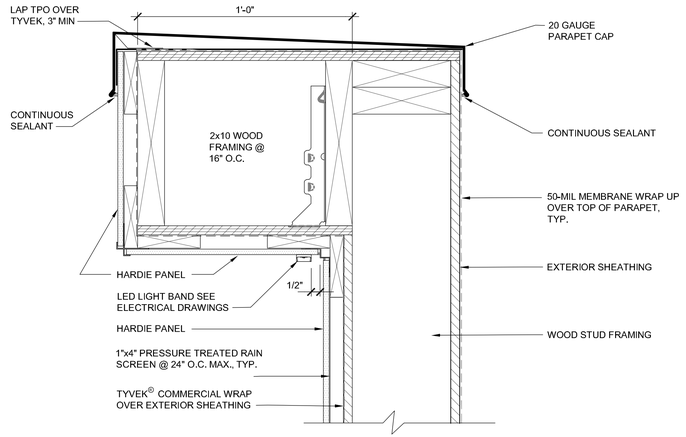
KIOSK PROTOTYPE:
4.2 REVERSE PROTOTYPE
JUNE 2024
ISSUE DATE:
03/21/2024
PROJECT NO.
240761
DRAWN BY:
AGG
CHECKED BY:
SW

SHEET NO.
A3.3



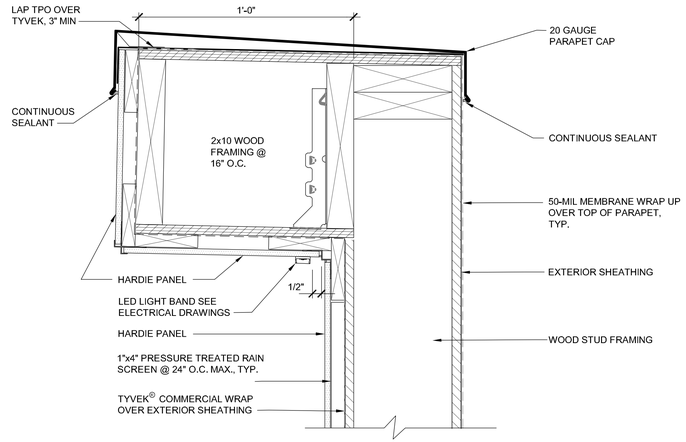
9 DETAIL @ PARAPET & HARDIE-PLANK

SCALE: 3" = 1'-0" G.C. VERIFY DETAIL PER MANUFACTURES INSTRUCTIONS



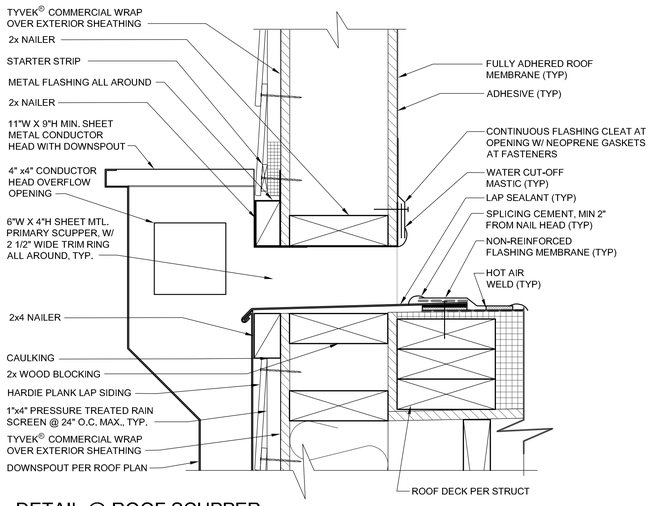
6 DETAIL @ SIDE PARAPET & HARDIE-PANEL

SCALE: 3" = 1'-0" G.C. VERIFY DETAIL PER MANUFACTURES INSTRUCTIONS



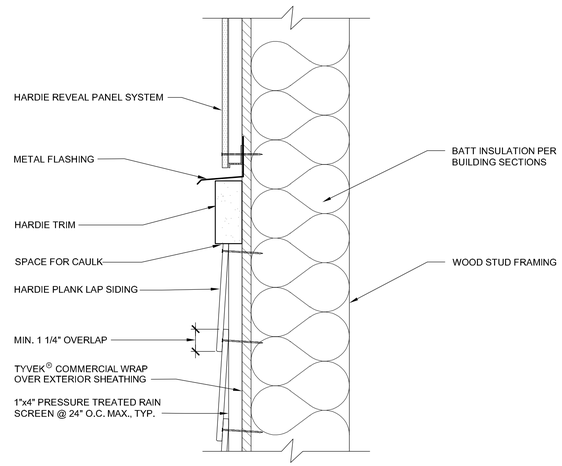
3 DETAIL @ FRONT PARAPET & HARDI-PANEL

SCALE: 3" = 1'-0" G.C. VERIFY DETAIL PER MANUFACTURES INSTRUCTIONS



8 DETAIL @ ROOF SCUPPER

SCALE: 3" = 1'-0"

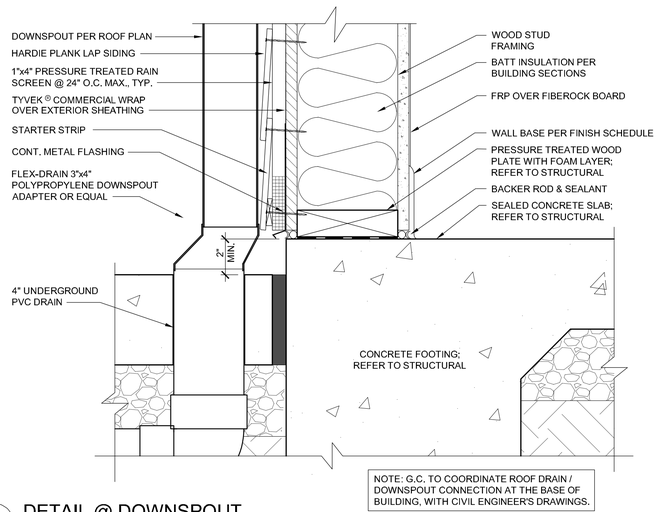


5 DETAIL @ HARDIE-PANEL & HARDIE-TRIM TRANSITION

SCALE: 3" = 1'-0" G.C. VERIFY DETAIL PER MANUFACTURES INSTRUCTIONS

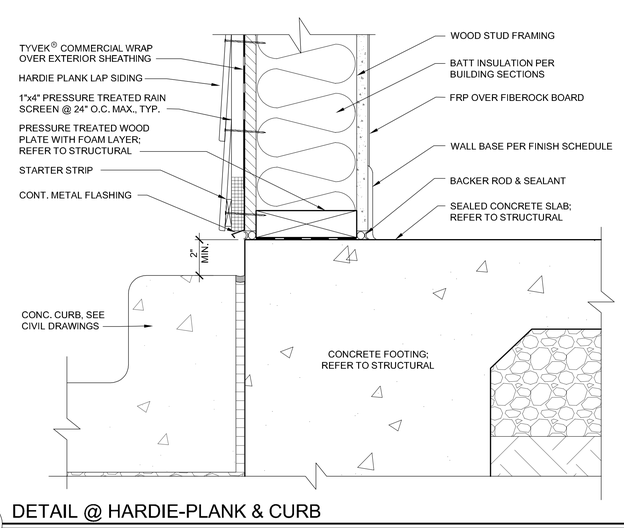
2 NOT USED

SCALE: 3" = 1'-0" G.C. VERIFY DETAIL PER MANUFACTURES INSTRUCTIONS



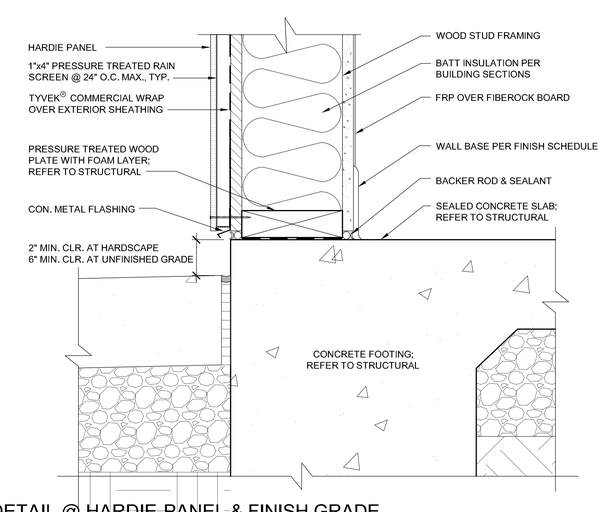
7 DETAIL @ DOWNSPOUT

SCALE: 3" = 1'-0"



4 DETAIL @ HARDIE-PLANK & CURB

SCALE: 3" = 1'-0"



1 DETAIL @ HARDIE-PANEL & FINISH GRADE

SCALE: 3" = 1'-0"

REGISTRATION SEAL
NORTH CAROLINA REGISTERED SEAL 6408 ARCHITECT FREDERICK J. GOGLIA
4/16/25

FREDERICK J. GOGLIA
ARCHITECT, NCARB, RDI
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcvi.com

SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
1			
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TITLE:

WALL DETAILS

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

KIOSK PROTOTYPE:
4.2 REVERSE PROTOTYPE
JUNE 2024

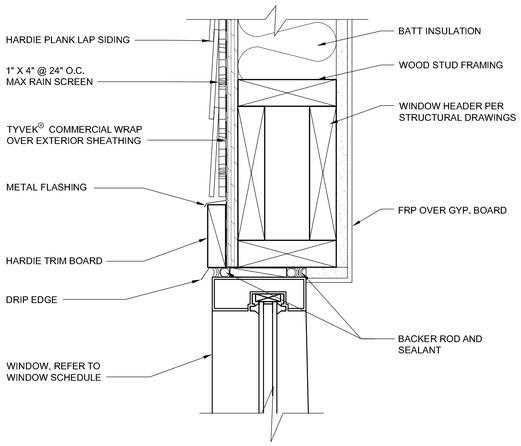
ISSUE DATE:
03/21/2024

PROJECT NO.
240761

DRAWN BY:
AGG

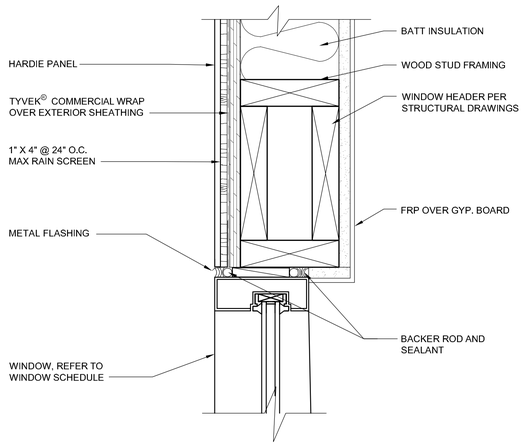
CHECKED BY:
SW

SHEET NO.
A3.4



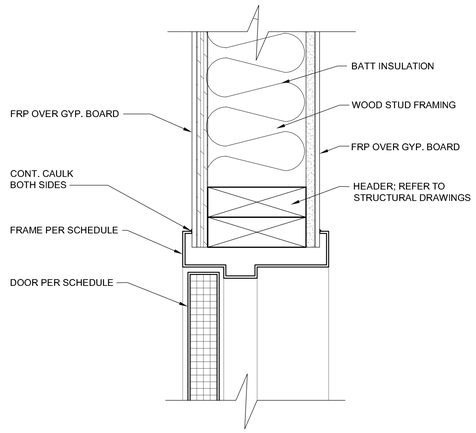
12 DETAIL AT WINDOW HEAD

SCALE: 3" = 1'-0" G.C. VERIFY DETAIL PER MANUFACTURES INSTRUCTIONS



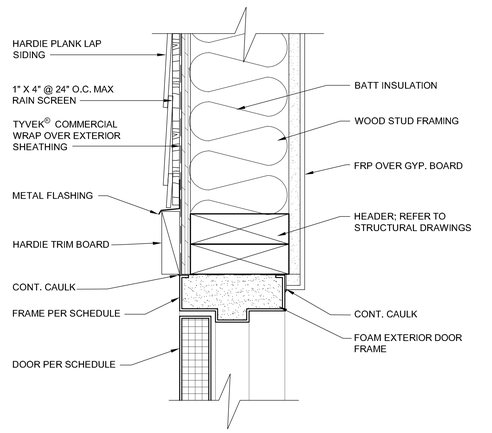
9 DETAIL AT WINDOW HEAD

SCALE: 3" = 1'-0" G.C. VERIFY DETAIL PER MANUFACTURES INSTRUCTIONS



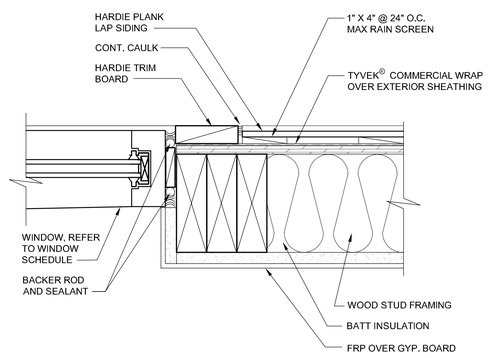
6 DETAIL AT INTERIOR DOOR HEADER

SCALE: 3" = 1'-0"



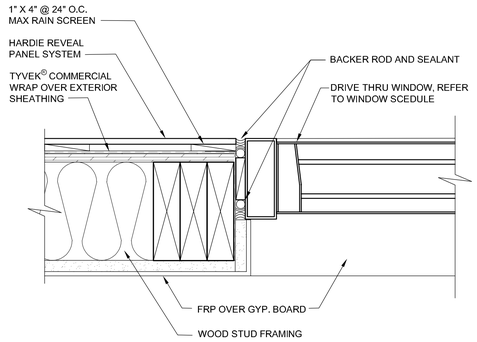
3 DETAIL AT DOOR HEADER

SCALE: 3" = 1'-0" G.C. VERIFY DETAIL PER MANUFACTURES INSTRUCTIONS



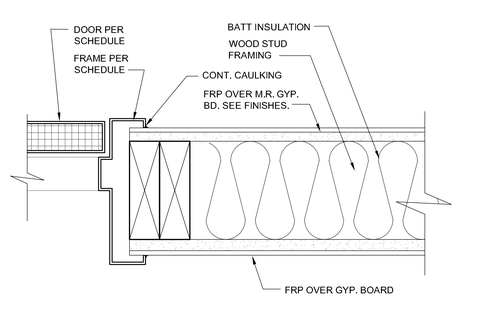
11 DETAIL AT WINDOW JAMB

SCALE: 3" = 1'-0"



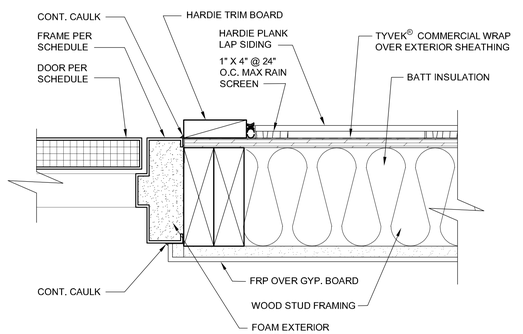
8 DETAIL AT WINDOW JAMB

SCALE: 3" = 1'-0" G.C. VERIFY DETAIL PER MANUFACTURES INSTRUCTIONS



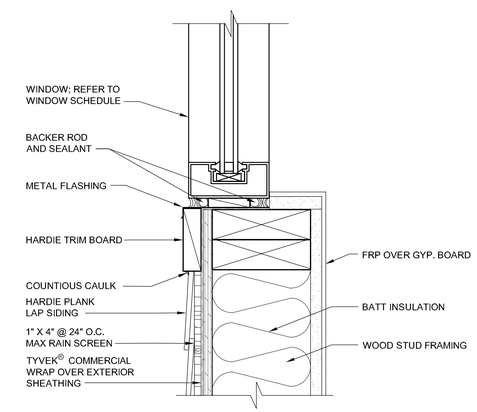
5 DETAIL AT INTERIOR DOOR JAMB

SCALE: 3" = 1'-0"



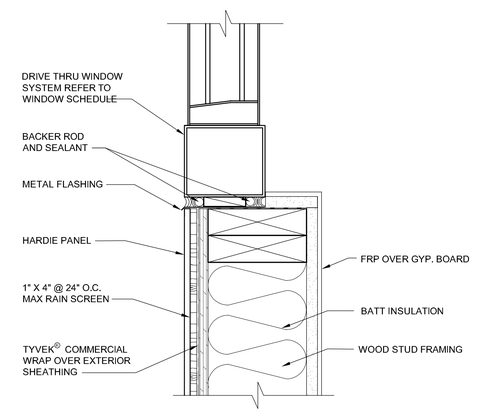
2 DETAIL AT DOOR JAMB

SCALE: 3" = 1'-0" G.C. VERIFY DETAIL PER MANUFACTURES INSTRUCTIONS



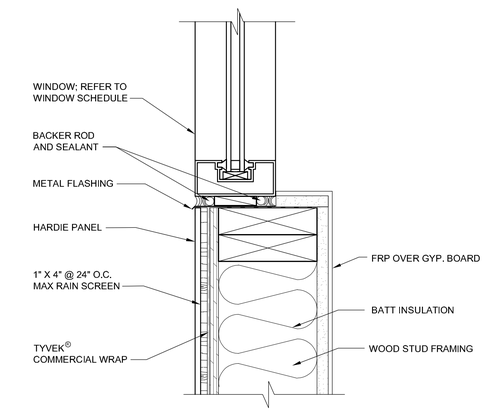
10 DETAIL AT WINDOW SILL

SCALE: 3" = 1'-0"



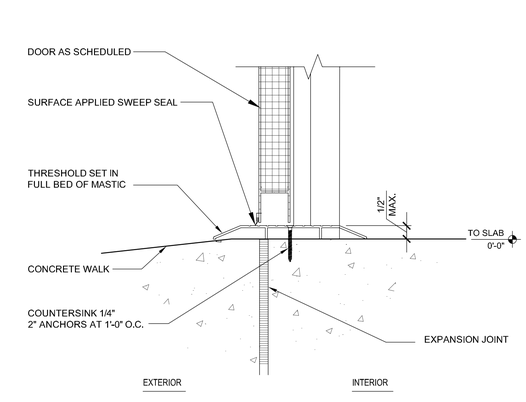
7 DETAIL AT SILL DRIVE-THRU

SCALE: 3" = 1'-0" G.C. VERIFY DETAIL PER MANUFACTURES INSTRUCTIONS



4 DETAIL AT WINDOW SILL

SCALE: 3" = 1'-0" G.C. VERIFY DETAIL PER MANUFACTURES INSTRUCTIONS



1 DETAIL AT DOOR THRESHOLD

SCALE: 3" = 1'-0" G.C. VERIFY DETAIL PER MANUFACTURES INSTRUCTIONS

REGISTRATION SEAL
NORTH CAROLINA
PROFESSIONAL SEAL
6408
ARCHITECT
FREDERICK J. GOGLIA
4/16/25

FREDERICK J. GOGLIA
ARCHITECT, NCARB, RDI
1930 CRAIG ROAD, SUITE 300
PH. (314) 415-2400
ST. LOUIS, MO 63146
FAX (314) 415-2300
www.arcv.com

SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
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TITLE:

DOOR & WINDOW DETAILS

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

KIOSK PROTOTYPE:
4.2 REVERSE PROTOTYPE
JUNE 2024

ISSUE DATE:
03/21/2024

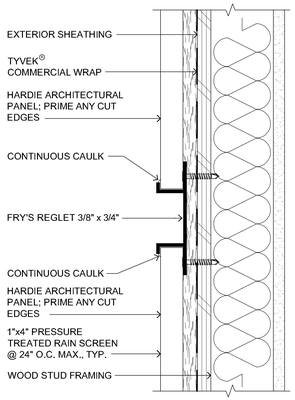
PROJECT NO.
240761

DRAWN BY:
AGG

CHECKED BY:
SW

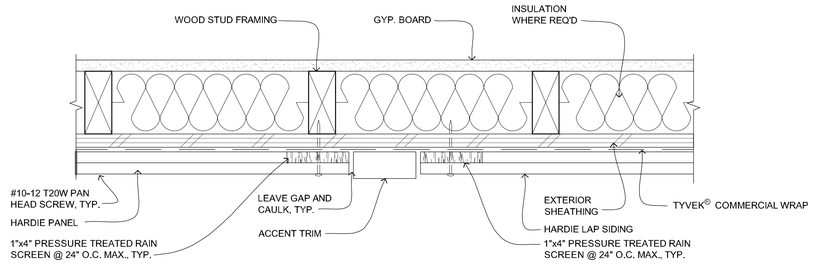
SHEET NO.

A3.5



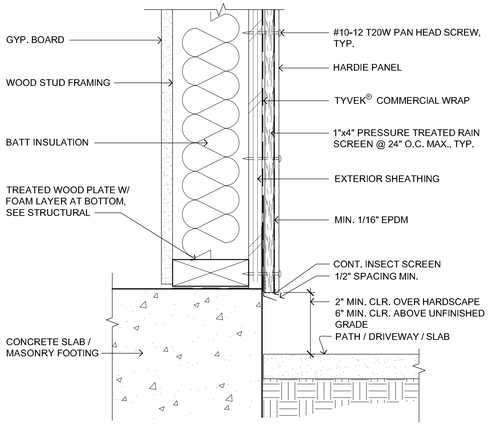
7 REVEAL AT HARDIE BOARD

SCALE: 3" = 1'-0"



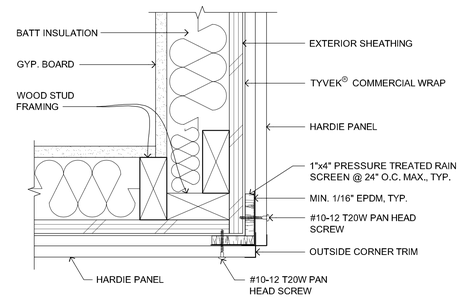
5 VERTICAL HARDIE TRIM

SCALE: 3" = 1'-0"



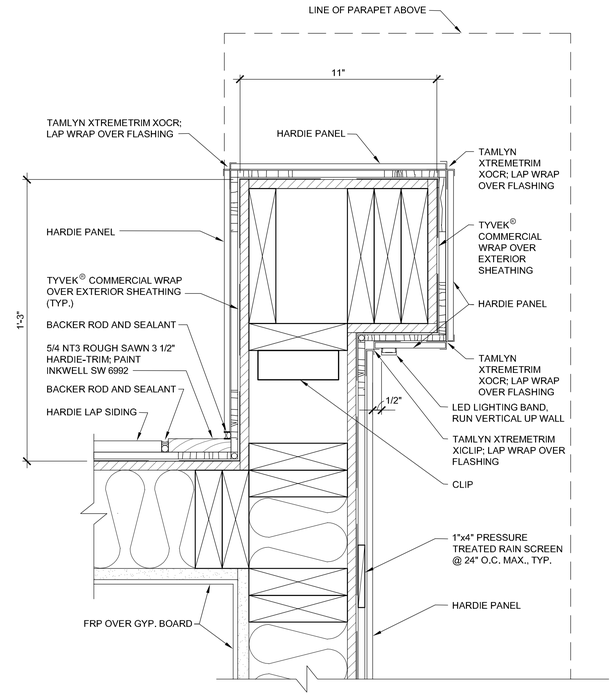
4 HARDSCAPE CLEARANCES

SCALE: 1/2" = 1'-0"



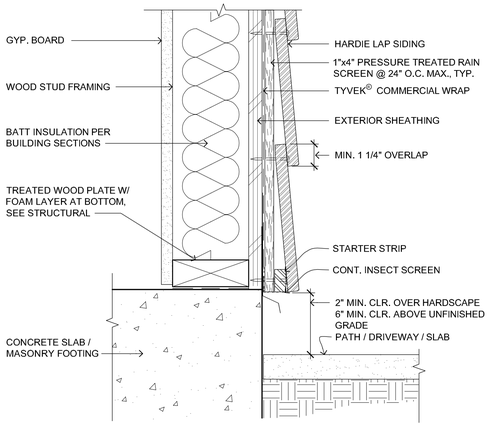
2 HARDIE PANEL REVEAL SYS. AT OUTSIDE CORNER

SCALE: 3" = 1'-0"



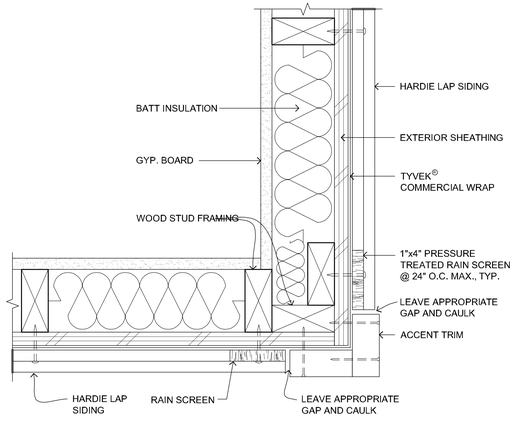
6 BREAK METAL TO HARDIE BOARD TRANSITION

SCALE: 3" = 1'-0"



3 HARDSCAPE CLEARANCES

SCALE: 1/2" = 1'-0"



1 HARDIE LAP SIDING AT OUTSIDE CORNER

SCALE: 1'-0" = 1'-0"

REGISTRATION SEAL
NORTH CAROLINA REGISTERED SEAL 6408 ARCHITECT FREDERICK J. GOGLIA
4/16/25

FREDERICK J. GOGLIA
ARCHITECT, NCARB, RDI
1930 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcvi.com

SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
1			
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TITLE:
EXTERIOR SIDING DETAILS

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

KIOSK PROTOTYPE:
4.2 REVERSE PROTOTYPE
JUNE 2024

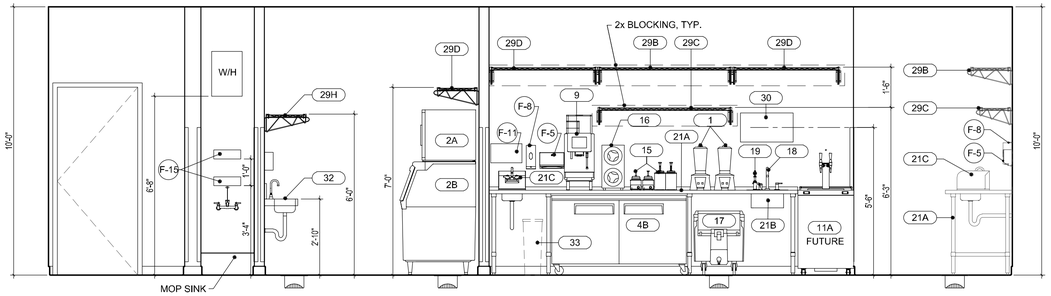
ISSUE DATE:
03/21/2024

PROJECT NO.
240761

DRAWN BY:
AGG

CHECKED BY:
SW

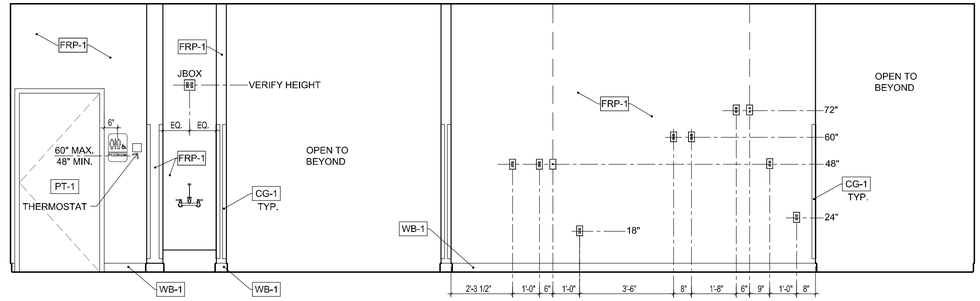
SHEET NO.
A3.6



2B INTERIOR ELEVATION AT BLENDER LINE

SCALE: 3/8" = 1'-0"

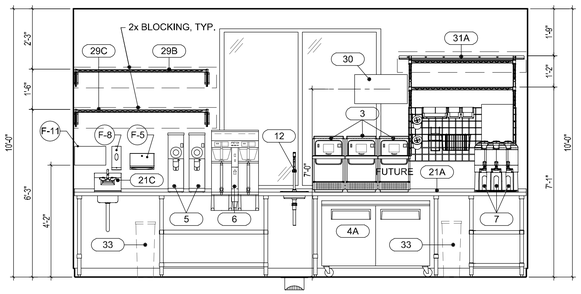
NOTE: SEE EQUIPMENT SCHEDULE, SHEET A1.3 FOR MORE INFORMATION
SEE FIXTURE SCHEDULE SHEET A4.3



2A INTERIOR ELEVATION AT BLENDER LINE

SCALE: 3/8" = 1'-0"

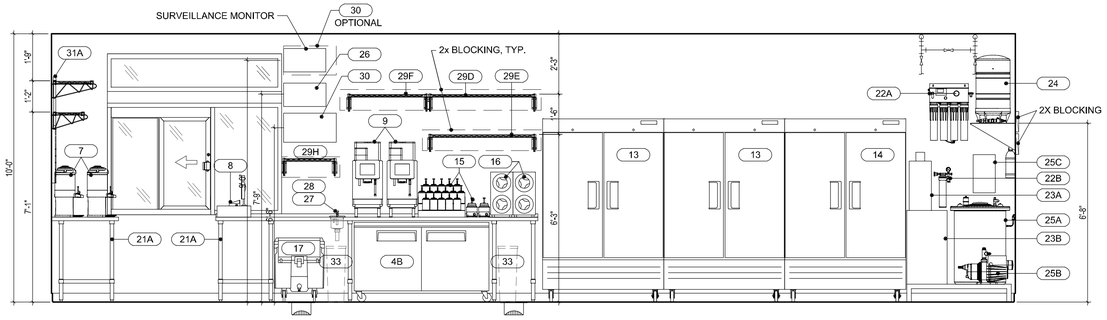
NOTE: SEE FINISH SCHEDULE, SHEET A1.2 FOR MORE INFORMATION



3B EQUIPMENT ELEVATION AT COFFEE LINE

SCALE: 3/8" = 1'-0"

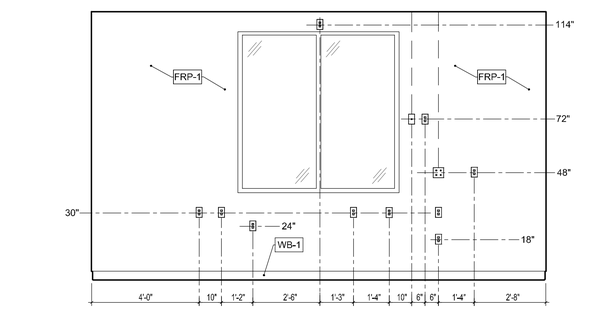
NOTE: SEE EQUIPMENT SCHEDULE, SHEET A1.3 FOR MORE INFORMATION
SEE FIXTURE SCHEDULE SHEET A4.3



1B EQUIPMENT ELEVATION AT ESPRESSO LINE

SCALE: 3/8" = 1'-0"

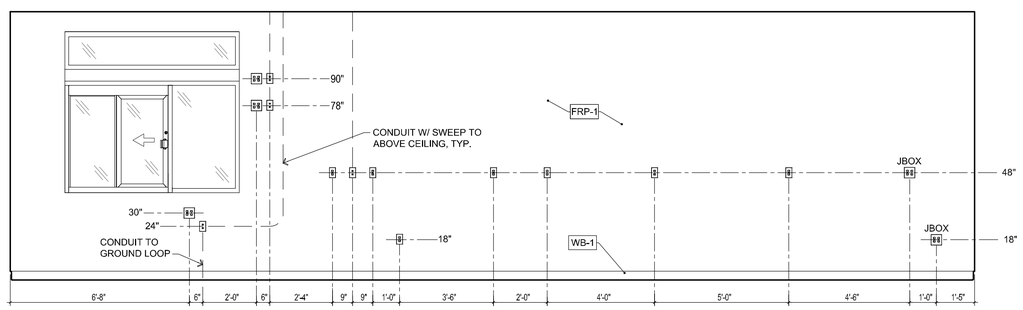
NOTE: SEE EQUIPMENT SCHEDULE, SHEET A1.3 FOR MORE INFORMATION



3A INTERIOR ELEVATION AT COFFEE LINE

SCALE: 3/8" = 1'-0"

NOTE: SEE FINISH SCHEDULE, SHEET A1.2 FOR MORE INFORMATION



1A INTERIOR ELEVATION AT ESPRESSO LINE

SCALE: 3/8" = 1'-0"

NOTE: SEE FINISH SCHEDULE, SHEET A1.2 FOR MORE INFORMATION

REGISTRATION SEAL

NORTH CAROLINA
REGISTERED
SEAL
6408
ARCHITECT
FREDERICK J. GOGLIA

4/16/25

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SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
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TITLE:

INTERIOR ELEVATIONS

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

KIOSK PROTOTYPE:
4.2 REVERSE PROTOTYPE
JUNE 2024

ISSUE DATE:
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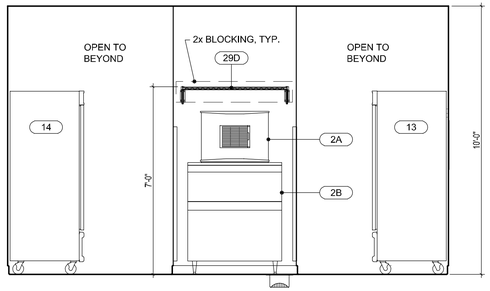
PROJECT NO.
240761

DRAWN BY:
AGG

CHECKED BY:
SW

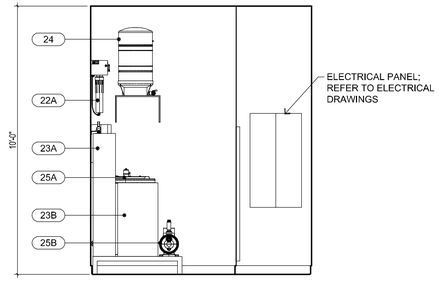
SHEET NO.

A4.1



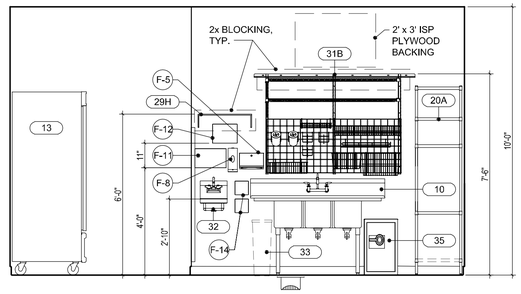
5B EQUIPMENT ELEVATION AT ICE MACHINE

SCALE: 3/8" = 1'-0" NOTE: SEE EQUIPMENT SCHEDULE, SHEET A1.3 FOR MORE INFORMATION



4B EQUIPMENT ELEVATION AT BACK OF HOUSE

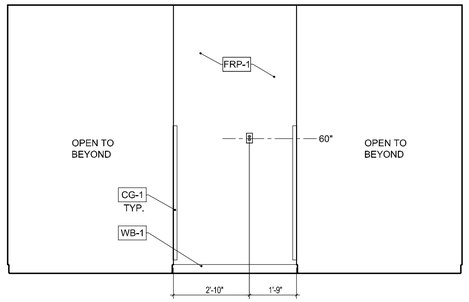
SCALE: 3/8" = 1'-0" NOTE: SEE EQUIPMENT SCHEDULE, SHEET A1.3 FOR MORE INFORMATION



2B EQUIPMENT ELEVATION AT 3-COMP SINK

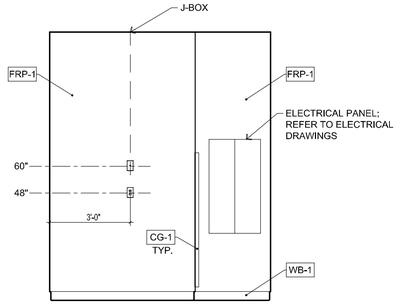
SCALE: 3/8" = 1'-0"

NOTE: SEE EQUIPMENT SCHEDULE, SHEET A1.3 FOR MORE INFORMATION
SEE FIXTURE SCHEDULE SHEET, SHEET A4.3



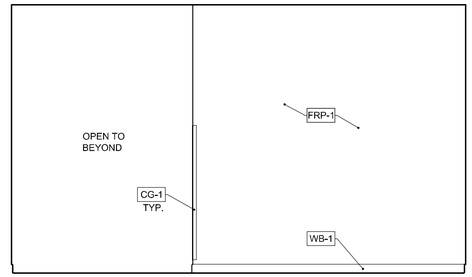
5A INTERIOR ELEVATION AT ICE MACHINE

SCALE: 3/8" = 1'-0" NOTE: SEE FINISH SCHEDULE, SHEET A1.2 FOR MORE INFORMATION



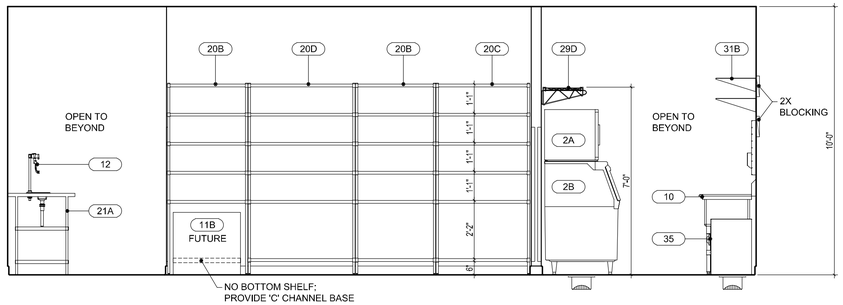
4A INTERIOR ELEVATION AT BACK OF HOUSE

SCALE: 3/8" = 1'-0" NOTE: SEE FINISH SCHEDULE, SHEET A1.2 FOR MORE INFORMATION



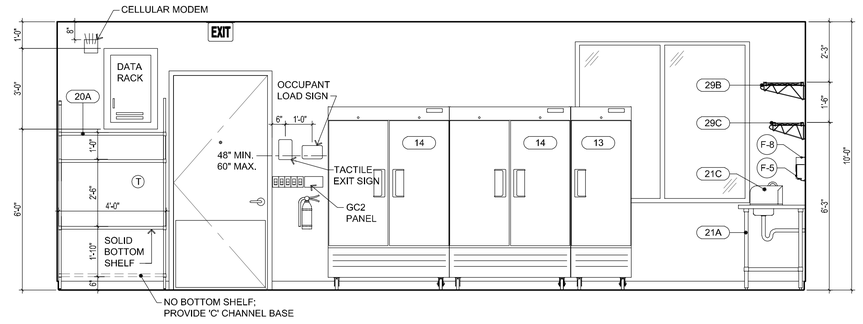
2A INTERIOR ELEVATION AT 3-COMP SINK

SCALE: 3/8" = 1'-0" NOTE: SEE FINISH SCHEDULE, SHEET A1.2 FOR MORE INFORMATION



3B EQUIPMENT ELEVATION AT STORAGE RACKS

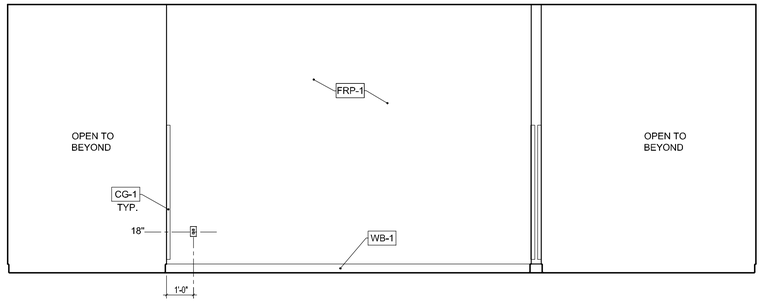
SCALE: 3/8" = 1'-0" NOTE: SEE EQUIPMENT SCHEDULE, SHEET A1.3 FOR MORE INFORMATION



1B EQUIPMENT ELEVATION AT FREEZER LINE

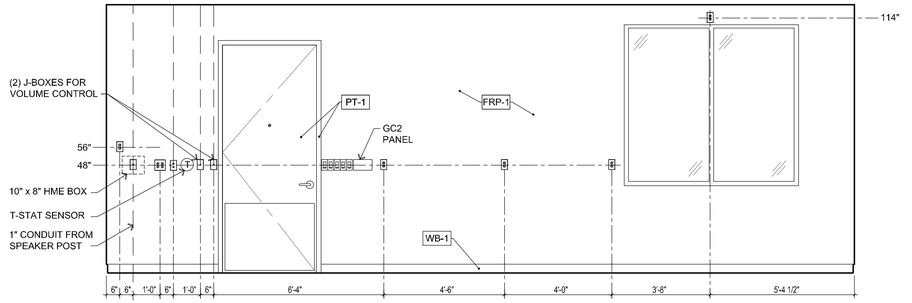
SCALE: 3/8" = 1'-0"

NOTE: SEE EQUIPMENT SCHEDULE, SHEET A1.3 FOR MORE INFORMATION
SEE FIXTURE SCHEDULE, SHEET A4.3



3A INTERIOR ELEVATION AT STORAGE RACKS

SCALE: 3/8" = 1'-0" NOTE: SEE FINISH SCHEDULE, SHEET A1.2 FOR MORE INFORMATION



1A INTERIOR ELEVATION AT FREEZER LINE

SCALE: 3/8" = 1'-0" NOTE: SEE FINISH SCHEDULE, SHEET A1.2 FOR MORE INFORMATION

REGISTRATION SEAL
NORTH CAROLINA REGISTERED SEAL 6408 ARCHITECT FREDERICK J. GOGLIA
4/16/25

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SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
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TITLE:
INTERIOR ELEVATIONS

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

KIOSK PROTOTYPE:
4.2 REVERSE PROTOTYPE
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SW

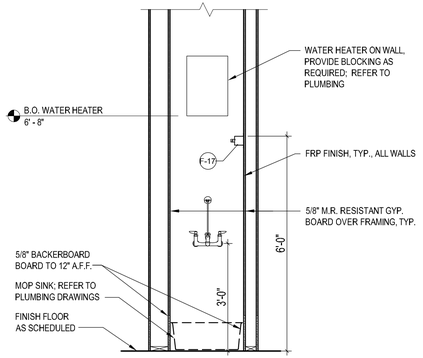
SHEET NO.
A4.2

ACCESSORY FIXTURES

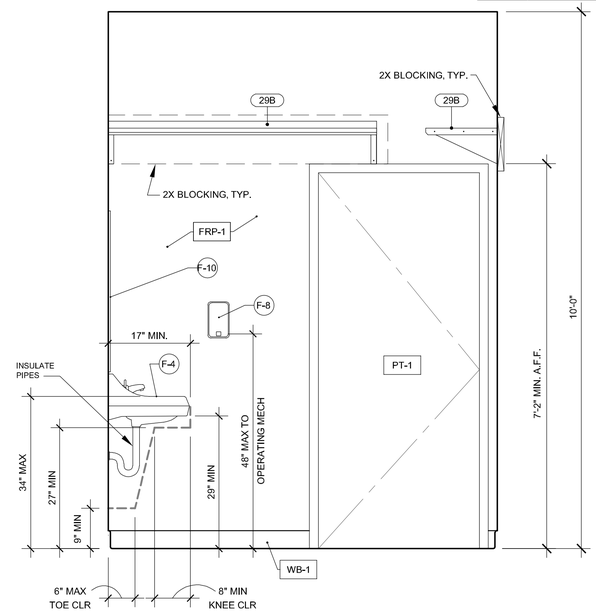
EQ. NO.	ITEM NAME	QTY	MANUFACTURER	MODEL #	REMARKS#
F-1	36" STAINLESS STEEL GRAB BAR	1	BOBRICK	#B-5806x36	
F-2	42" STAINLESS STEEL GRAB BAR	1	BOBRICK	#B-5806x42	
F-3	18" STAINLESS STEEL GRAB BAR	1	BOBRICK	#B-5806x18	
F-4	WALL HUNG LAVATORY	1	REFER TO PLUMBING DRAWINGS		
F-5	PAPER TOWEL DISPENSER	3	BOBRICK	#B-2621	CONTRCTOR INSTALLED
F-6	TOILET TISSUE DISPENSER	1	BOBRICK	#B-2840	
F-7	WATER CLOSET	1	REFER TO PLUMBING DRAWINGS		
F-8	SOAP DISPENSER	3	BOBRICK	#B-2111	CONTRCTOR INSTALLED
F-9	WALL MOUNTED ACCESSIBLE SIGN	1	ULINE	S-15599BL	
F-10	WALL MOUNTED MIRROR	1	BOBRICK	#WB-165	
F-11	DIVERSEY HANDWASH CHART	4	OWNER PROVIDED		CONTRCTOR INSTALLED
F-12	DIVERSEY OPTIFILL CHART	1	OWNER PROVIDED		CONTRCTOR INSTALLED
F-13	DIVERSEY RTD CHART	1	OWNER PROVIDED		CONTRCTOR INSTALLED
F-14	DIVERSEY OPTIFILL RACK	2	OWNER PROVIDED		CONTRCTOR INSTALLED
F-15	DIVERSEY RTD RACK	2	OWNER PROVIDED		CONTRCTOR INSTALLED
F-16	SEAT COVER DISPENSER	1	BOBRICK	#B-221	CONTRCTOR INSTALLED
F-17	MOP & BROOM HOLDER	1	BOBRICK	#B-223	CONTRCTOR INSTALLED

GENERAL NOTES

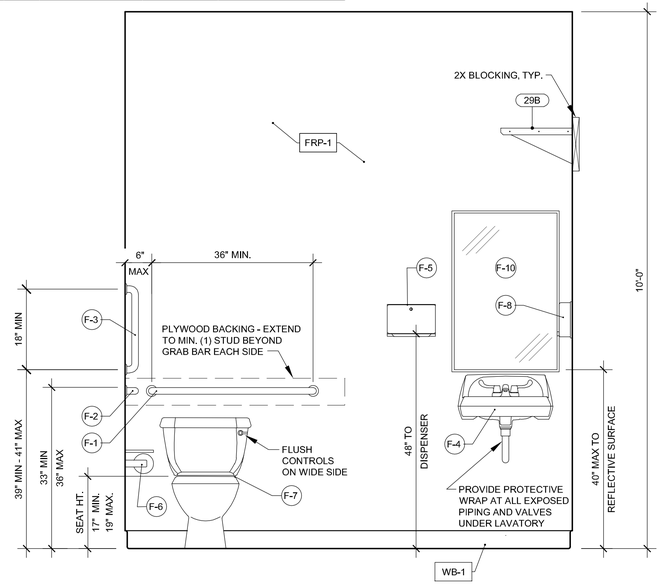
A. SEE SHEET G0.4 FOR FURTHER ACCESSIBILITY INFORMATION
B. SEE FINISH SCHEDULE SHEET A1.2 FOR FINISHES
C. SEE PLUMBING PLANS FOR ADDITIONAL FIXTURE INFORMATION
D. DIMENSIONS NOTED ON THIS PLAN ARE TO FINISH SURFACE U.N.O.



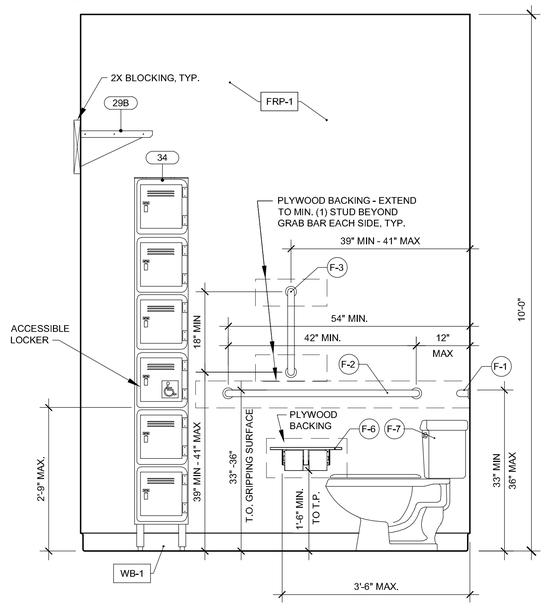
6 WATER HEATER & MOP SINK
SCALE: NTS



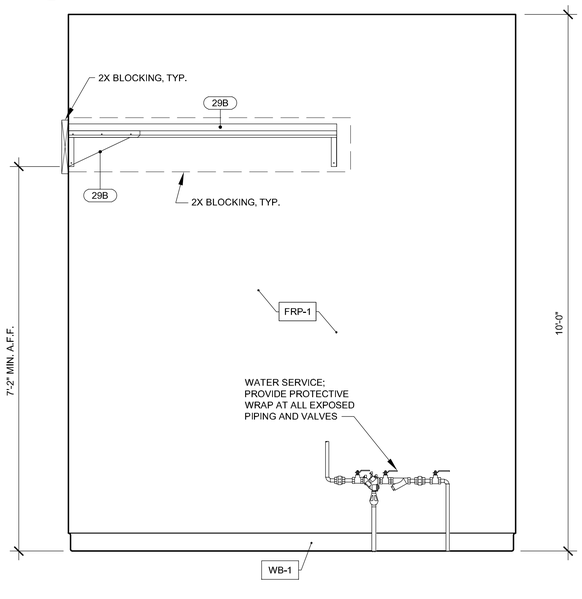
5 RESTROOM ELEVATION
SCALE: 3/4" = 1'-0"
SEE EQUIPMENT SCHEDULE SHEET A1.3



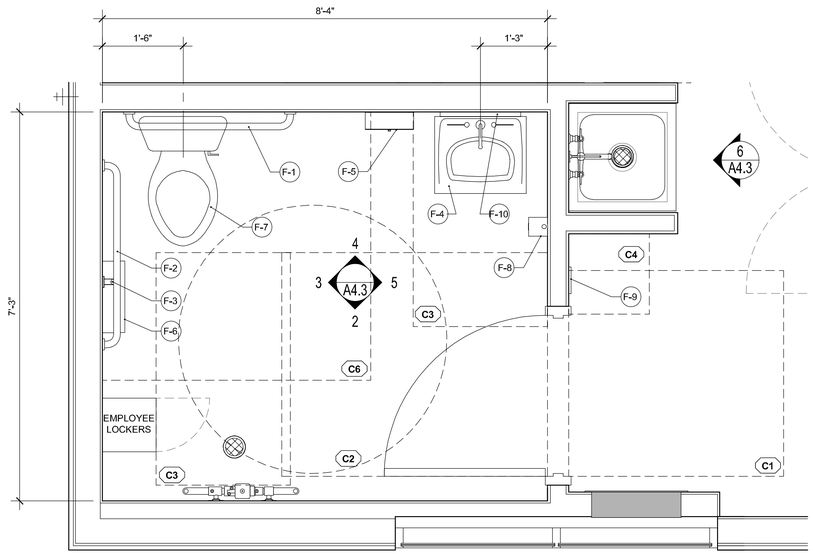
4 RESTROOM ELEVATION
SCALE: 3/4" = 1'-0"



3 RESTROOM ELEVATION
SCALE: 3/4" = 1'-0"
SEE EQUIPMENT SCHEDULE SHEET A1.3



2 RESTROOM ELEVATION
SCALE: 3/4 = 1'-0"
SEE EQUIPMENT SCHEDULE SHEET A1.3



1 ENLARGED RESTROOM PLAN
SCALE: 3/4" = 1'-0"

NORTH

REGISTRATION SEAL
NORTH CAROLINA REGISTERED SEAL 6408 ARCHITECT FREDERICK J. GOGLIA
4/16/25

FREDERICK J. GOGLIA
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SCOOTER'S COFFEE EST. 1998

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TITLE:
ENLARGED RESTROOM PLAN & ELEVATIONS

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

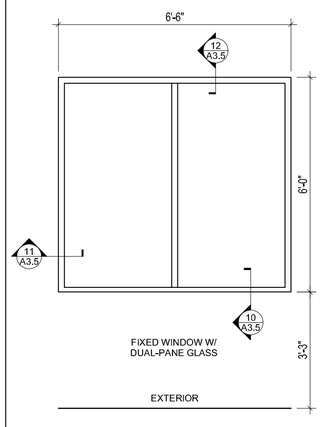
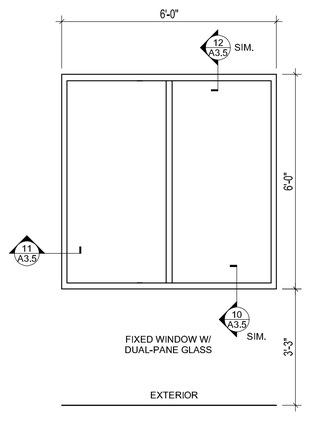
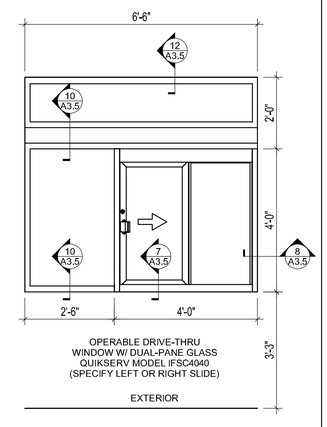
FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

KIOSK PROTOTYPE:
4.2 REVERSE PROTOTYPE
JUNE 2024
ISSUE DATE:
03/21/2024
PROJECT NO.
240761
DRAWN BY:
AGG
CHECKED BY:
SW

SHEET NO.
A4.3

GENERAL WINDOW NOTES

1. CONTRACTOR TO REFER TO COMCHECK ENVELOPE FOR SPECIFIC WINDOW REQUIREMENTS.

WINDOW TYPES	W1	W2	W3
			
MATERIAL / FINISH	AL / DARK BRONZE	AL / DARK BRONZE	DARK BRONZE
GLASS	1" INSULATED DUAL PANE TEMPERED CLEAR GLASS	1" INSULATED DUAL PANE TEMPERED CLEAR GLASS	1" INSULATED DUAL PANE TEMPERED CLEAR GLASS
R.O. DIMENSIONS	6'-6" W X 6'-0" H	6'-0" W X 6'-0" H	6'-6" W X 6'-0" H
NOTES	SPANDREL GLASS BEHIND REACH-IN REFRIGERATOR AND AS NOTED ON ELEVATIONS	CONTRACTOR TO INSTALL 35% WINDOW TINT FILM ON INTERIOR SURFACE OR SPANDREL GLASS AS NOTED ON THE ELEVATIONS	CONTRACTOR TO INSTALL 35% WINDOW TINT FILM ON INTERIOR SURFACE

SCOOTER'S COFFEE
QUIKSERV NATIONAL ACCOUNT

SALES
OFFICE: 713.849.5882
EMAIL: SALES@QUIKSERV.COM
11441 BRITTMOORE PARK DR
HOUSTON, TX 77041

SERVICE & WARRANTY
WADE ARNOLD - ACCOUNT MANAGER
OFFICE: 832.305.3300
EMAIL: WARNOLD@QUIKSERV.COM

BRIAN COBLE - WARRANTY
MIKE KEMP - PARTS
PAULO RODRIGUEZ - PARTS
EMAIL: SERVICE@QUIKSERV.COM
PHONE: 713.849.5882

1 WINDOW TYPES

SCALE: NTS

REGISTRATION SEAL
NORTH CAROLINA REGISTERED SEAL 6408 ARCHITECT FREDERICK J. GOGLIA
4/16/25

FREDERICK J. GOGLIA
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SCOOTER'S COFFEE EST. 1998

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TITLE:
WINDOW SCHEDULE

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

KIOSK PROTOTYPE:
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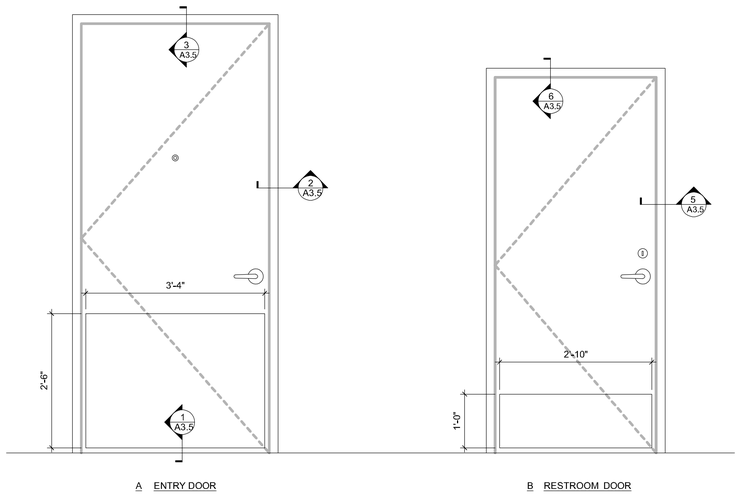


A ENTRY DOOR

B RESTROOM DOOR

2 TYPICAL DOOR ELEVATIONS

SCALE: 3/4"=1'-0"

DOOR SCHEDULE

MARK	DOOR						FRAME			HARDWARE	REMARKS & DOOR NOTES
	TYPE	WIDTH	HEIGHT	THK	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	SET	
100	A	3'-6"	8'-0"	1-3/4"	INSULATED METAL U=0.77	PAINT	-	HM	PAINT	1	KEY PLATE INSIDE FACE
101	B	3'-0"	7'-0"	1-3/4"	HM	PAINT	-	HM	PAINT	2	

HARDWARE SCHEDULE

SET NUMBER 1 - (ENTRY)

QTY.	PART	DESCRIPTION	MFGR.
1 1/2 PR.	BUTT HINGES	FULL MORTISE BB1279-450 4.5" x4.5", US26D/652, 5 KNUCKLE NON-REMOVABLE PIN	HAGER OR EQ.
1	CLOSER	LCN 1450 SURFACE MOUNTED, PUSH SIDE (INTERIOR), ALUM. FINISH (689)	LCN - EQ.
1	THRESHOLD	LOW PROFILE 2008_PK	PEMKO - EQ.
1	DOOR SWEEP	36" 225_V DOOR BOTTOM SWEEP	PEMKO - EQ.
1	WEATHER STRIP	AT PERIMETER OF DOOR OPENINGS	PEMKO - EQ.
1	VIEWER	698PB619 WIDE-ANGLE (190-200 DEGREES) AT 60" A.F.F. MAX	SCHLAGE OR EQ.
1	KICKPLATE	34" x 30" STAINLESS STEEL, PUSH SIDE ONLY	
1	DOOR HOLD OPEN	DOOR MOUNTED	
1	LOCK SET	SCHLAGE ALX53 LEVER TYPE, MECHANICAL PUSHBUTTON LOCK, SATIN CHROME FINISH	SCHLAGE ALX53

SET NUMBER 2 - (RESTROOM)

QTY.	PART	DESCRIPTION	MFGR.
1 1/2 PR.	BUTT HINGES	FULL MORTISE 4"x4" BB1191-ANSI-A2112, BRASS WITH S/S PIN, US26D	HAGER OR EQ.
1	LOCK SET	SCHLAGE ALX40 PRIVACY LEVER TYPE (626)	SCHLAGE ALX40
1	CLOSER	LCN 1450 SURFACE MOUNTED, PULL SIDE, ALUM. FINISH (689)	LCN - EQ.
1	KICKPLATE	34"X12" STAINLESS STEEL, PUSH SIDE ONLY	-
1	SILENCER	AT PERIMETER OF DOOR	PEMKO - EQ.
1	DOOR HOLD OPEN	DOOR MOUNTED	

GENERAL DOOR NOTES

1. GC TO VERIFY THAT EGRESS DOOR & HARDWARE COMPLIES WITH ACCESSIBILITY REQUIREMENTS.
2. ENTRY DOOR TO BE MARKED "THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS OCCUPIED" - TO BE MOUNTED ABOVE THE DOOR WITH 1" HIGH LETTERS, COLOR IN CONTRAST TO THE BACKGROUND.
3. ALL DOORS SHALL OPERATE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, PANIC BARS, OR PUSH PULL ACTIVATION BARS. SEE SPECIFICATIONS.
4. DOOR CLOSER, IF PRESENT MUST BE SET SO THAT IT TAKES DOOR AT LEAST 5 SECONDS TO CLOSE FROM AN OPEN POSITION OF 90 DEGREES TO WITHIN 12 DEGREES OF LATCH.
5. EFFORTS TO OPERATE DOORS WITHIN PRESSURES ALLOWED: INTERIOR DOORS 5LBS. MAXIMUM PRESSURE TO OPERATE, FIRE DOORS 15 LBS. MAXIMUM PRESSURE TO OPERATE
6. THE WIDTH OF THE OF THE LEVEL AREA ON THE SIDE OF WHICH THE DOOR SWINGS SHALL EXTEND 24" PAST THE STRIKE EDGE OF THE DOOR FOR EXTERIOR DOORS AND 18" PAST THE STRIKE EDGE FOR INTERIOR WALLS.
7. PROVIDE DOOR BOTTOMS AND EXIT SADDLES ON ALL EXTERIOR DOORS.
8. ALL EXITS ARE TO BE OPENABLE FROM INSIDE WITHOUT THE USE OF KEY OR SPECIAL KNOWLEDGE.
9. ALL EGRESS/EXIT DOORS SHALL BE OF THE PIVOTED OR SIDE-HINGED SWINGING TYPE PER SECTION 1008.12.
10. G.C. TO VERIFY QUANTITY OF MASTER KEYS TO PROVIDE.
11. ALL DOOR HARDWARE (LOCKSETS, PUSH / PULLS, DEADLOCKS, ETC.) SHALL BE MOUNTED NOT LESS THAN 34" A.F.F., NOR MORE THAN 48" A.F.F.
12. CONTRACTOR TO REFER TO COMCHECK ENVELOPE FOR SPECIFIC DOOR REQUIREMENTS.

ABBREVATIONS

AL ALUMINUM

SC SOLID CORE WOOD DOOR

HM HOLLOW METAL

GL GLASS

a. FOR NON-FlaNgeD DOORS ONly

SteP 6a

A. Prepare head flashing by cutting a piece of DuPont™StraightFlash™VF at least twelve (12) inches longer than the head length.

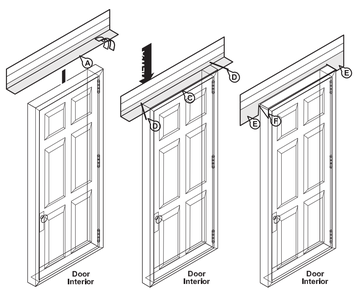
B. Remove the release paper from one side of DuPont™ StraightFlash™VF.

C. Center the flashing along the length of the door and position so that it contacts the door frame.

D. At the corner of the door frame, cut the DuPont™ StraightFlash™VF along the corner at a 45° angle.

E. Fold it down flat in the vertical direction parallel to the door frame.

F. Fold remaining head flashing ears to the jamb.



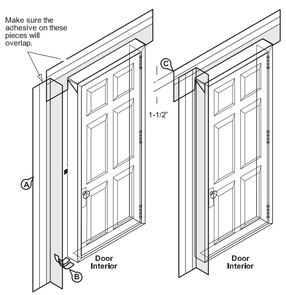
SteP 7a

A. Prepare jamb flashing by cutting a piece of DuPont™StraightFlash™VF at least six (6) inches longer than the jamb length.

B. Remove the release paper from one side of DuPont™ StraightFlash™VF.

C. Position so that it contacts the door frame up to the exterior face of the door. Ensure that the jamb flashing is positioned 1-1/2 inches below top of head flashing. Jamb flashing adhesive must **come in contact with head flashing adhesive and overlap by one inch.**

D. Repeat step for the other jamb.

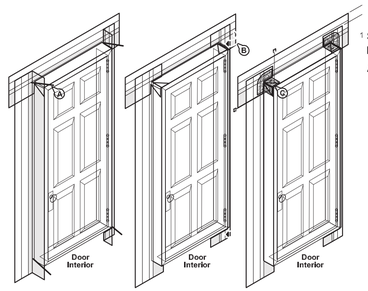


SteP 8a

A. At the corner of the door frame cut the DuPont™StraightFlash™VF along the corner at a 45° angle and fold it over flat to adhere it against the head flashing.

B. Repeat on opposite jamb.

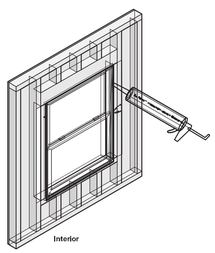
C. Cut two 3" x 3" DuPont™ FlexWrap™squares and add patches to corners of the door. Staple to wooden frame.



SteP 8

Final Step

A. Tool sealant around the window opening at the interior, using DuPont™Weatherization Sealant or DuPont Recommended Low Expansion Foam (and backer rod as necessary). Sealant and backer rod will also serve as a back dam.



1 FLASHING DETAILS

SCALE: NTS

REGISTRATION SEAL
NORTH CAROLINA
REGISTERED
SEAL
6408
ARCHITECT
FREDERICK J. GOGLIA
4/16/25

FREDERICK J. GOGLIA
ARCHITECT, NCARB, RDI
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcvi.com

SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
1			
2			
3			
4			
5			
6			
7			
8			
9			

TITLE:

DOOR SCHEDULE

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

KIOSK PROTOTYPE:
4.2 REVERSE PROTOTYPE
JUNE 2024

ISSUE DATE:
03/21/2024

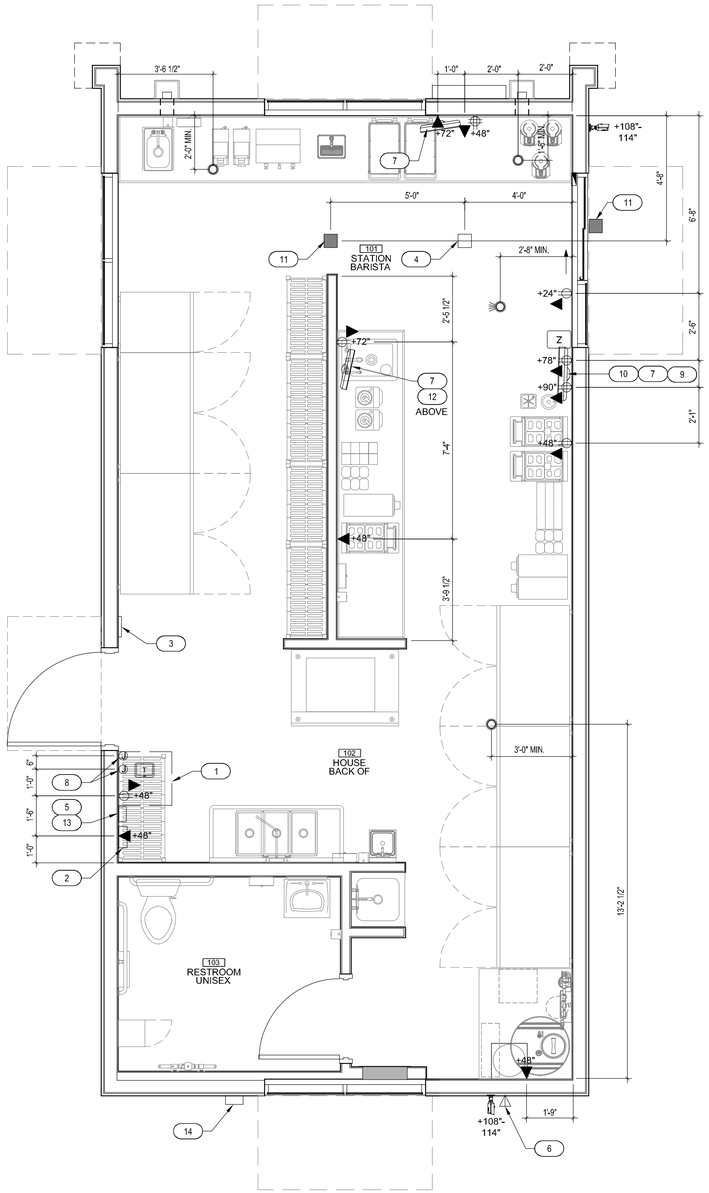
PROJECT NO.
240761

DRAWN BY:
AGG

CHECKED BY:
SW

SHEET NO.

A5.2



1 A/V DATA LAYOUT PLAN

SCALE: 3/8" = 1'-0"

PLAN NORTH

IT INSTALL NOTES

A. ANY MISSING J-BOXES, DESCREPENCIES, OR VARIATIONS FROM PLAN MUST BE APPROVED BY THE SCOOTER'S COFFEE CONSTRUCTION MANAGER ASSIGNED TO THE PROJECT. IF ISSUES ARE DISCOVERED, THE I.T. INSTALLER MUST NOTIFY THE CONSTRUCTION MANAGER VIA DIRECT PHONE CALL. CONSTRUCTION MANAGER CONTACT INFORMATION CAN BE FOUND VIA SMARTSHEET ONLINE.

B. MOST PROBLEMS CAN BE RESOLVED QUICKLY WITH COMMUNICATION VIA PHONE CALL. EMAILS MAY BE USED FOR FOLLOW-UP PURPOSES ONLY, BUT IT SHALL NOT BE THE PRIMARY METHOD OF COMMUNICATION. THE I.T. INSTALLER WILL BE RESPONSIBLE TO COVER THE COST OF A RETURN TRIP IF A PHONE CALL DOES NOT OCCUR.

C. THE GENERAL CONTRACTOR IS NOT ALLOWED TO DIRECT ANY CHANGES TO THE I.T. INSTALL. ANY CHANGES MUST COME FROM THE DIRECTION OF SCOOTER'S COFFEE CONSTRUCTION MANAGER.

D. IF THERE IS A SHELF OR APPLIANCE BELOW THE CAMERA OR ALARM EQUIPMENT, PLEASE BRING IT OUT ENOUGH TO CLEAR THE SHELF SO THINGS STACKED ON TOP WON'T BLOCK THE CAMERA'S VIEW.

SYMBOLS LEGEND - AUDIO / VIDEO / DATA

- PHONE PORT
- DATA PORT - SINGLE
- DATA PORT - DUAL
- DATA PORT - QUAD
- DATA WAP EXTERIOR PORT
- T — TABLET STATION
- SECURITY CAMERA - OUTDOOR
- DOME CAMERA
- AUDIO CAMERA
- Z — ZOOM TIMER
- DOOR CONTACT
- MOTION SENSOR

KEYNOTES

X

1. 16CH NVR ABOVE MANAGERS STATION.
2. HME CONTROL PANEL.
3. GC2 PANEL.
4. ACCESS POINT LOCATION, CEILING MOUNTED.
5. ISP LOCATION BESIDE DATA RACK.
6. TYPICAL LOCATION IS NEAR REAR CORNER OF BUILDING. I.T. TECH INSTALLER MUST VERIFY LOCATION IS IN LINE-OF-SIGHT FROM MENU BOARD TO LAST CAR IN LINE OF LINE BUSTING CONE.
7. KDS MONITOR
8. (2) J-BOX FOR VOLUME CONTROL
9. ZOOM TIMER
10. SURVEILLANCE MONITOR
11. SPEAKER
12. SECONDARY LOCATION FOR SURVEILLANCE MONITOR IF 2ND KDS OPTION IS USED
13. CELLULAR MODEM MOUNTED ON WALL.
14. C.E. COMMUNICATION DEVICE VISIBLE TO DRIVE-THRU MENU BOARD.

REGISTRATION SEAL

NORTH CAROLINA REGISTERED SEAL 6408 ARCHITECT FREDERICK J. GOGLIA

4/16/25

FREDERICK J. GOGLIA
ARCHITECT, NCARB, RDI
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300
www.arcvi.com

EST. 1998 SCOOTER'S COFFEE

REV	DATE	DESCRIPTION	BY
1			
2			
3			
4			
5			
6			
7			
8			
9			

TITLE:

AUDIO / VIDEO DATA PLAN

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

KIOSK PROTOTYPE:
4.2 REVERSE PROTOTYPE
JUNE 2024

ISSUE DATE:
03/21/2024

PROJECT NO.
240761

DRAWN BY:
AGG

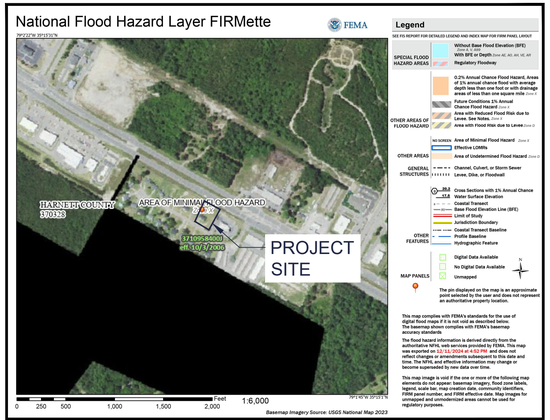
CHECKED BY:
SW

SHEET NO.

A6.1

SCOOTER'S - #2294

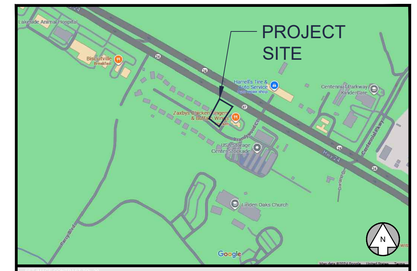
130 BRANDYWOOD CT.
PARCEL PIN: 9584-97-8509.000
CAMERON, HARNETT COUNTY, NORTH CAROLINA



FEMA MAP

FLOOD PLAIN IS NOT PRESENT ON THIS SITE AS SHOWN ON THE FEMA FIRM MAP NUMBER 3710958400J, DATED 10/03/2006

LOCATION MAP: 1" = 100'



LOCATION MAP

IMAGE OBTAINED FROM "© GOOGLE MAPS"

PROJECT TEAM

OWNER/DEVELOPER	CIVIL ENGINEERING
PROUD TO SERVE, LLC 155 FOX HUNT LANE SOUTHERN PINES, NC 28387 KEVIN & JENNIFER LEAVITT 402.541.5857	GASKINS + LECRAW OF NC, PLLC 3475 CORPORATE WAY SUITE A DULUTH, GA 30096 KYLE SHARPE, P.E. 678.546.8100
ARCHITECT	**SURVEYOR**
ARCVISION, INC. 1950 CRAIG ROAD STE 300 ST. LOUIS, MO 63146 816.248.3559 SERENA WICKETT	DZT LAND SURVEYING, PLLC 7500 NC HIGHWAY 15/501, STE 5 WEST END, NC 27376 910.420.1325 DAVID R. ESSICK

PROJECT CONTACTS

ELECTRIC	NATURAL GAS
CENTRAL ELECTRIC 128 WILSON RD, SANFORD, NC (919) 774-4900	PIEDMONT NATURAL GAS COMPANY 1-(800) 752-8071
TELEPHONE	**WATER & SEWER**
CENTURYLINK 1-(833) 467-1687	HARNETT REGIONAL WATER 700 MCKINNEY PARKWAY LILLINGTON, NC 27546 (910) 893-7575
PLANNING & ZONING	
HANRETT COUNTY 420 MCKINNEY PARKWAY LILLINGTON, NC 27546 (910) 893-7525 MATT LOCKLEAR	

DISTURBED AREA

TOTAL SITE AREA = 0.54 ACRES
TOTAL DISTURBED AREA = 0.6 ACRES

24 HOUR CONTACT

KEVIN & JENNIFER LEAVITT
402.541.5857
PROUD TO SERVE, LLC

AS-BUILT NOTE

CONTRACTOR SHALL PROVIDE THE NECESSARY SIGNED/SEALED AS-BUILT SURVEY(S) TO ENGINEER AS REQUIRED FOR FINAL APPROVAL BY THE LOCAL JURISDICTION AT LEAST 30 DAYS PRIOR TO PROJECT COMPLETION. AS-BUILT SURVEY(S) SHALL INCLUDE ALL RIM ELEVATIONS, INVERTS, PIPE SIZES & MATERIALS, AND PIPE SLOPES FOR ALL STORM AND SANITARY SEWERS. IN JURISDICTIONS WHERE AN AS-BUILT HYDROLOGY ANALYSIS OR STORMWATER "CERTIFICATION" IS REQUIRED BY THE ENGINEER OF RECORD, THE CONTRACTOR SHALL ALSO SUPPLY ALL NECESSARY DOCUMENTATION REQUIRED FOR THE ENGINEER TO DETERMINE UNDERGROUND POND(S), IF APPLICABLE, PROVIDE THE ADEQUATE STORAGE VOLUMES. SUCH DOCUMENTATION MAY INCLUDE, BUT SHALL NOT BE LIMITED TO, PHOTOGRAPHS OF SYSTEM INSTALLATION, COMPACTION REPORTS UNDER AND ABOVE THE SYSTEM, DELIVERY TICKETS, SHOP DRAWINGS, ELEVATIONS OF STONE BEDDING (TOP AND BOTTOM), AS WELL AS THE HORIZONTAL LIMITS OF STONE.

GENERAL NOTES

THE APPROVAL OF THESE PLANS AND THE ISSUANCE OF THIS LAND DISTURBANCE PERMIT DOES NOT IN ANY WAY SUGGEST THAT ALL OTHER REQUIREMENTS FOR THE LEGAL OR APPROPRIATE OPERATIONS FOR THIS ACTIVITY, WHICH MAY REQUIRE ADDITIONAL PERMITTING HAVE BEEN MET. THE ONUS IS ON THE OWNER/DEVELOPER/BUILDER TO DISCOVER WHAT ADDITIONAL PERMITTING OR APPROVALS MAY BE NECESSARY TO OPERATE FROM THIS POINT IN AN APPROPRIATE AND LEGAL MANNER. PLAN APPROVAL OR PERMIT ISSUANCE DOES NOT ABSOLVE THE APPLICANT FROM COMPLYING WITH ALL APPLICABLE LAWS, STANDARDS, OR OTHER PERMITS WHICH MAY BE REQUIRED FOR THIS PROJECT.

ATTENTION IS DRAWN TO THE FACT THAT THE SCALE OF THESE DRAWINGS MAY HAVE BEEN DISTORTED DURING THE REPRODUCTION PROCESS.

IF ANY CONFLICTS, DISCREPANCIES, OR ANY OTHER UNSATISFACTORY CONDITIONS ARE DISCOVERED, EITHER ON THE CONSTRUCTION DOCUMENTS OR FIELD CONDITIONS, THE CONTRACTOR MUST NOTIFY THE ENGINEER IMMEDIATELY AND SHALL NOT COMMENCE FURTHER OPERATION UNTIL THE CONFLICTS, DISCREPANCIES, OR OTHER UNSATISFACTORY CONDITIONS ARE RESOLVED.

JURISDICTIONAL NOTES

HARNETT REGIONAL WATER:

1. WATERLINE CONSTRUCTION AND TIE-IN WILL NEED TO BE COORDINATED AND INSPECTED BY HRW CONSTRUCTION INSPECTOR CHAD EVERETT
2. APPROVAL OF THIS PLAT/PLAN DOES NOT GUARANTEE WATER CAPACITY. CURRENT/FUTURE CAPACITY MAY NOT BE AVAILABLE. THIS DEVELOPMENT MAY REQUIRE ADDITIONAL IMPROVEMENTS TO THE EXISTING WATER SYSTEM TO MEET FUTURE DEMANDS PRIOR TO PRELIMINARY PLAT, CONSTRUCTION PLAN AND/OR FINAL PLAT APPROVAL.

JURISDICTIONAL APPROVAL STAMPS

SHEET LIST TABLE

Sheet Number	Sheet Title	Revisions
C-0.0	COVER	
--	SURVEY	
C-0.1	GENERAL NOTES	
C-1.0	DEMOLITION PLAN	
C-2.0	ESPC - PHASE 1	
C-2.1	ESPC - PHASE 2	
C-2.2	ESPC - PHASE 3	
C-2.5	EROSION CONTROL DETAILS - 1	
C-2.6	EROSION CONTROL DETAILS - 2	
C-3.0	SITE PLAN	
C-4.0	GRADING PLAN	
C-5.0	UTILITY PLAN	
C-6.0	SANITARY PROFILES	
C-7.0	CONSTRUCTION DETAILS - 1	
C-7.1	CONSTRUCTION DETAILS - 2	
C-7.2	CONSTRUCTION DETAILS - 3	
C-7.3	CONSTRUCTION DETAILS - 4	
L-1.0	LANDSCAPE PLAN	
L-1.1	LANDSCAPE DETAILS	X

SITE SUMMARY

SITE AREA	
SITE AREA:	0.54 ACRES (23,469 S.F.)
IMPERVIOUS AREA:	14,356 S.F. (61%)
PERVIOUS AREA:	9,113 S.F. (39%)
ZONING CLASSIFICATION	
JURISDICTION:	HARNETT COUNTY
ZONING:	COMM
ADJACENT ZONING:	RA-30 & COMM
BUILDING SETBACKS	
FRONT:	50'
SIDE:	20' (ZONING BUFFER)
REAR:	25'
BUILDING SUMMARY	
BUILDING AREA:	664 S.F.
BUILDING COVERAGE:	2.8%
PARKING SUMMARY	
PARKING REQ.:	1 PER 4 SEATS + 1 PER 2 EMPLOYEES 2 SPACES (ASSUMES 4 EMPLOYEES)
PARKING PROV.:	6 SPACES
STANDARD STALL DIMENSIONS:	9' x 18'
MIN. 2-WAY DRIVE WIDTH:	24'

HOURS OF OPERATION

MONDAY-SUNDAY: 5:30 AM TO 8 PM

NC SURFACE WATER SUPPLY WATERSHED

THIS PROPERTY IS NOT LOCATED IN A SURFACE WATER SUPPLY WATERSHED

PREPARED IN THE OFFICE OF:
GASKINS +LECRAW

3475 CORPORATE WAY
SUITE A
DULUTH, GA 30096
PHONE - 678.546.8100
www.gaskinslecraw.com

P-2646

REVISIONS:

REV. #	DATE	DRAWN BY:	CHECKED BY:
1			

CLIENT
PROUD TO SERVE, LLC
155 FOX HUNT LANE, SOUTHERN PINES, NORTH CAROLINA 28387

PROJECT
SCOOTER'S - #2294
130 BRANDYWOOD CT.
PARCEL PIN: 9584-97-8509.000
CAMERON, HARNETT COUNTY, NORTH CAROLINA

SEAL:

NORTH CAROLINA REGISTERED SEAL 54209 ENGINEER TIMOTHY KYLE SHARPE

2/25/2025

CALL BEFORE YOU DIG

811 Know what's below. Call before you dig.

SCALE & NORTH ARROW:

DESIGN INFO:

DRAWN BY:	SOO
DESIGNED BY:	TKS
REVIEWED BY:	TKS
JOB #:	03630032
DATE:	FEBRUARY 25, 2025

COVER

C-0.0

I, DAVID R. ESSICK, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL GPS/GNSS SURVEY MADE UNDER MY SUPERVISION AND THE FOLLOWING INFORMATION WAS USED TO PERFORM THE SURVEY:
(1) CLASS OF SURVEY: CLASS A
(2) POSITIONAL ACCURACY: <0.10'
(3) TYPE OF GPS FIELD PROCEDURE: RTK NETWORKS
(4) DATES OF SURVEY: JANUARY 15, 2025
(5) DATUM/EPOCH: NAD83(2011)
(6) PUBLISHED/FIXED-CONTROL USE: NC CORS
(7) GEOID MODEL: ContinentalUS_NGS2012B
(8) COMBINED GRID FACTOR(S): 0.99986689
(9) GPS / GNSS SCALE POINT:
N: 547,477.14 E: 1,989,809.54 Z: 333.69
(10) UNITS: US SURVEY FEET

I, DAVID R. ESSICK, CERTIFY THAT THIS MAP WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION (DEED DESCRIPTION RECORDED IN (SEE REFERENCE TABLE); THAT THE BOUNDARIES NOT SURVEYED ARE INDICATED AS DRAWN FROM INFORMATION IN (SEE REFERENCE TABLE); AND THAT THIS MAP MEETS THE REQUIREMENTS OF THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA (21 NCAC 56.1600).

THIS 30TH DAY OF JANUARY, A.D., 2025.

"PRELIMINARY PLAT - NOT FOR RECORDATION, CONVEYANCES, OR SALES"

PROFESSIONAL LAND SURVEYOR, L-5423

TITLE COMMITMENT NUMBER: 2024113769

EFFECTIVE DATE: NOVEMBER 19, 2024 at 12:00 AM

EXISTING PROPERTY USE:
RESIDENTIAL

CURRENT RECORD DESCRIPTION OF PROPERTY:

TITLE COMMITMENT SCHEDULE C

"BEING ALL OF THAT 0.54-ACRE PARCEL AS SHOWN ON THE PLAT PREPARED BY ENOCH ENGINEERS, P.A., TITLED, "RECOMBINATION SURVEY AND MAP FOR: JACKSON FAMILY ENTERPRISES, LLC." DATED NOVEMBER 22, 2022 AND RECORDED IN MAP BOOK 2024, PAGE 395 OF THE HARNETT COUNTY REGISTRY, TO WHICH REFERENCE IS HEREBY MADE FOR A MORE COMPLETE AND ACCURATE DESCRIPTION BY MEETS AND BOUNDS."

NEW LEGAL DESCRIPTION

BEGINNING AT AN IRON PIPE IN THE NORTHERN RIGHT OF WAY OF BRANDYWOOD COURT;
THENCE S 57°11'13" E 14.19' TO AN IRON PIPE ;
THENCE WITH A CURVE TURNING TO THE RIGHT WITH AN ARC LENGTH OF 65.79', WITH A RADIUS OF 347.87', WITH A CHORD BEARING OF S 53°27'03" E, WITH A CHORD LENGTH OF 65.69'
THENCE WITH A CURVE TURNING TO THE RIGHT WITH AN ARC LENGTH OF 19.84', WITH A RADIUS OF 639.87', WITH A CHORD BEARING OF S 47°03'43" E, WITH A CHORD LENGTH OF 19.84'
THENCE S 42°58'47" E 26.49' TO AN IRON PIPE;
THENCE N 29°46'36" E 202.99' TO AN IRON PIPE;
THENCE N 60°13'08" W 44.23' TO AN IRON ROD;
THENCE N 60°14'52" W 79.88' TO AN IRON PIPE;
THENCE S 29°44'42" W 182.09' TO AN IRON PIPE;
WHICH IS THE POINT OF BEGINNING, HAVING AN AREA OF 0.539 ACRES.

TO: GASKINS + LECRAW OF NC, PLLC; PROUD TO SERVE, LLC; JACKSON FAMILY ENTERPRISES, LLC, A NORTH CAROLINA LIMITED LIABILITY COMPANY; WFG NATIONAL TITLE INSURANCE COMPANY, LEAVITT PROPERTIES, LLC; THOMAS B. CAHILL, ATTORNEY AT LAW, P.C.; TRYON TITLE AGENCY; MIDTOWN PROPERTY LAW

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 1, 2, 3, 4, 5, 7(A), 7(B)(1), 8, 9, 11(A), 13, 16, 17, 19 ($2,000,000.00) OF TABLE A THEREOF.

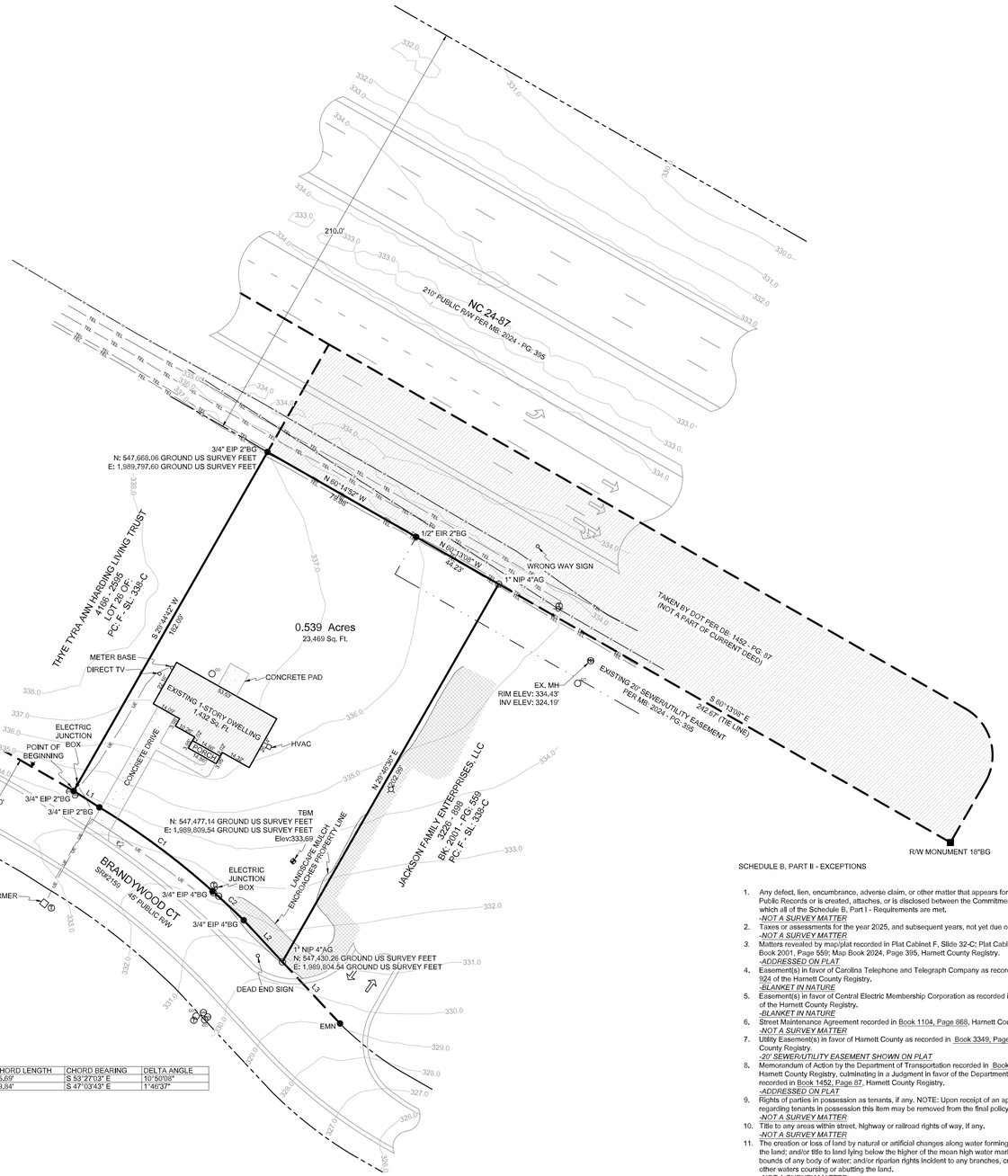
THE FIELDWORK WAS COMPLETED ON: JANUARY 15TH, 2025

DATE OF PLAT OR MAP: JANUARY 30TH, 2025

"PRELIMINARY PLAT - NOT FOR RECORDATION, CONVEYANCES, OR SALES"

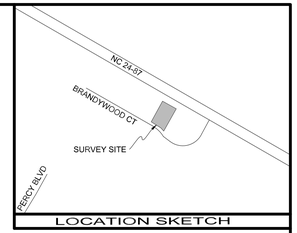
PROFESSIONAL LAND SURVEYOR, L-5423

NOTES:
1. THIS PROJECT IS NOT LOCATED WITHIN A SPECIAL FLOOD HAZARD AREA PER NCFRIS. MAP #: 3710958400J EFFECTIVE DATE: 10/3/2006
2. ACREAGE DETERMINED BY COORDINATE METHOD
3. ALL LINES SURVEYED BY DZT LAND SURVEYING, PLLC ARE SHOWN BY BOLD LINES. ALL LINES NOT SURVEYED ARE INDICATED BY DASHED LINES.
4. TAX PARCEL ID: 9584-97-8509
5. ZONING: COMM
6. PUBLIC WATER SUPPLY WATERSHED: NONE
7. NO ATTEMPT WAS MADE BY THIS SURVEY TO LOCATE ALL UNDERGROUND UTILITIES NOR ANY OTHER EASEMENTS OR CONVEYANCES THAT WOULD BE REVEALED BY A TITLE SEARCH
8. VERIFY MINIMUM BUILDING SETBACKS BEFORE CONSTRUCTION.
9. LOCATION OF UNDERGROUND UTILITIES , IF SHOWN, ARE BASED ON VISIBLE EVIDENCE AND DRAWINGS PROVIDED TO THE SURVEYOR. LOCATION OF UNDERGROUND UTILITIES AND STRUCTURES MAY VARY FROM SHOWN LOCATIONS, ADDITIONAL UTILITIES MAY EXIST, LOCAL UTILITY COMPANIES SHOULD BE CONSULTED FOR FURTHER INFORMATION ON UTILITIES AFFECTING THE PROPERTY.



LINE	BEARING	DISTANCE
L1	S 57°11'13" E	14.19'
L2	S 42°58'47" E	26.49'
L3	S 42°58'47" E	39.34'

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	347.87'	65.79'	65.69'	S 53°27'03" E	10°50'08"
C2	639.87'	19.84'	19.84'	S 47°03'43" E	1°46'37"



LOCATION SKETCH

NC GRID NORTH NAD '83 (2011)

LEGEND OF SYMBOLS AND ABBREVIATIONS

CP	COMPUTED POINT
EA	EXISTING AXLE
ECM	EXISTING CONCRETE MONUMENT
EIP	EXISTING IRON PIPE
EIR	EXISTING IRON ROD
NIR	NEW IRON ROD
NIP	NEW IRON PIPE
	FIRE HYDRANT
GV	GAS VALVE
	POWER POLE
	LIGHT POLE
SS	SANITARY SEWER MANHOLE
	STORM MANHOLE
T	TELEPHONE PEDESTAL
TR	TRANSFORMER
WM	WATER METER
	WATER VALVE
W	WELL
AG	ABOVE GRADE
BG	BELOW GRADE
BC	BACK OF CURB
CB	CATCH BASIN
CL	CENTERLINE
CO	CLEAN OUT
CMP	CORRUGATED METAL PIPE
CPP	CORRUGATED PLASTIC PIPE
DI	DROP INLET
EJB	ELECTRIC JUNCTION BOX
EM	ELECTRIC METER
EMN	EXISTING MAG NAIL
EN	EXISTING NAIL
EP	EDGE OF PAVEMENT
EPK	EXISTING PK NAIL
ERRS	EXISTING RAILROAD SPIKE
FO	FIBER OPTIC
FL	FLUSH WITH GRADE
ICV	IRRIGATION CONTROL VALVE
MBS	MINIMUM BUILDING SETBACKS
NIF	NOW OR FORMERLY
NMN	NEW MAG NAIL
RCP	REINFORCED CONCRETE PIPE
R/W	RIGHT-OF-WAY
TBC	TOP BACK CURB
TOC	TOE OF CURB
YI	YARD INLET

	SURVEYED PROPERTY BOUNDARY
	COMPUTED / ADJOINER PROPERTY LINE
	RIGHT-OF-WAY
	TIE LINE
	SETBACK LINES
SS	SANITARY SEWER LINE
S	STORM LINE
W	WATER LINE
X	FENCE
E	OVERHEAD ELECTRIC LINES
	EASEMENTS
TEL	UNDERGROUND TELECOM
UE	UNDERGROUND ELECTRIC

SCHEDULE B, PART II - EXCEPTIONS

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 I - Requirements are met.
-NOT A SURVEY MATTER
2. Taxes or assessments for the year 2025, and subsequent years, not yet due or payable.
-NOT A SURVEY MATTER
3. Matters revealed by map/plat recorded in Plat Cabinet F, Slide 32-C; Plat Cabinet F, Slide 338-C; Map Book 2001, Page 559; Map Book 2024, Page 395, Harnett County Registry.
-ADDRESSED ON PLAT
4. Easement(s) in favor of Carolina Telephone and Telegraph Company as recorded in Book 1097, Page 924 of the Harnett County Registry.
-BLANKET IN NATURE
5. Easement(s) in favor of Central Electric Membership Corporation as recorded in Book 1072, Page 343 of the Harnett County Registry.
-BLANKET IN NATURE
6. Street Maintenance Agreement recorded in Book 1104, Page 868, Harnett County Registry.
-NOT A SURVEY MATTER
7. Utility Easement(s) in favor of Harnett County as recorded in Book 3349, Page 38 of the Harnett County Registry.
-20' SEWER/UTILITY EASEMENT SHOWN ON PLAT
8. Memorandum of Action by the Department of Transportation recorded in Book 1319, Page 745, Harnett County Registry, culminating in a Judgment in favor of the Department of Transportation recorded in Book 1452, Page 87, Harnett County Registry.
-ADDRESSED ON PLAT
9. Rights of parties in possession as tenants, if any. NOTE: Upon receipt of an appropriate affidavit regarding tenants in possession this item may be removed from the final policy.
-NOT A SURVEY MATTER
10. Title to any areas within street, highway or railroad rights of way, if any.
-NOT A SURVEY MATTER
11. The creation or loss of land by natural or artificial changes along water forming part of the boundary of the land; and/or title to land lying below the higher of the mean high water mark and/or the normal bounds of any body of water; and/or riparian rights incident to any branches, creeks, streams, lakes or other waters coursing or abutting the land.
-NOT A SURVEY MATTER
12. Any discrepancy, conflict, access, shortage in area or boundary lines, encroachment, encumbrance, violation, variation, overlap, setback, easement or claims of easement, riparian right, and title to land within road, ways, railroads, watercourses, burial grounds, marshes, dredged or filled areas or land below the mean high water mark or within the bounds of any adjoining body of water, or other adverse circumstance affecting the Title that would be disclosed by a current inspection and accurate and complete land survey of the Land.
-NOT A SURVEY MATTER

ALTA SURVEY FOR:

GASKINS + LECRAW

JANUARY 30, 2025

ANDERSON CREEK TOWNSHIP
HARNETT COUNTY, NORTH CAROLINA

0 30 60 90

SCALE 1"=30'

REFERENCE TABLE:
DEED BOOK 3226, PAGE 898
PLAT CABINET F, SLIDE 338-C
HARNETT COUNTY REGISTRY

PROPERTY ADDRESS:
130 BRANDYWOOD CT
CAMERON, NC 28326

OWNER'S ADDRESS:
JACKSON FAMILY ENTERPRISES, LLC
309 ST MATTHEWS RD
ERWIN, NC 28339

DZT
LAND SURVEYING, PLLC NC FIRM: P-2686
SUITE 5 7500 NC HWY 15/501 WEST END, NC 27376

JOB#: 2503

GENERAL NOTES

ALL WORK AND MATERIALS SHALL COMPLY WITH ALL STATE, CITY AND COUNTY REGULATIONS AND CODES AND O.S.H.A. STANDARDS.

CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR PRECISE BUILDING DIMENSIONS, BUILDING UTILITY ENTRANCE LOCATIONS, EXACT LOCATIONS AND DIMENSIONS OF ENTRIES, SIDEWALKS, DOWNSPOUTS, AND BOLLARDS IN BUILDING SIDEWALKS.

UNLESS SHOWN OTHERWISE ON THE PLANS, CONTRACTOR SHALL APPLY 4" OF TOP SOIL TO ALL DISTURBED AREAS OF THE SITE, PLANT GRASS SEED OR SOD, APPLY STRAW, AND WATER. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH A HEALTHY STAND OF GRASS ON ALL SEEDED OR SODDED AREAS. IF A HEALTHY STAND OF GRASS CAN NOT BE ESTABLISHED BY THE TIME THE BUILDING BECOMES OCCUPIED, THEN SOD SHALL BE INSTALLED AND WATERED UNTIL GRASS IS ESTABLISHED.

ALL ISLANDS WITH CURB & GUTTER SHALL BE LANDSCAPED. THOSE ISLANDS ARE TO HAVE CURB & GUTTER AS SHOWN ON THE CONSTRUCTION DRAWINGS.

ALL DIMENSIONS AND RADII ARE REFERENCED TO THE FACE OF CURB UNLESS OTHERWISE NOTED. ALL BUILDING DIMENSIONS ARE REFERENCED TO THE OUTSIDE FACE OF THE STRUCTURE UNLESS OTHERWISE NOTED.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN BID. AREAS TO BE DISTURBED SHALL BE IMPROVED PER THESE PLANS OR RESTORED TO THEIR ORIGINAL OR BETTER CONDITION.

ACCESSIBLE SIGNS WITH A "VAN" MARKING SHALL HAVE ADDITIONAL SIGN MOUNTED BELOW THE SYMBOL OF ACCESSIBILITY SIGN DENOTING VAN ACCESSIBILITY. ALL ACCESSIBLE SIGNS SHALL MEET THE CURRENT MINIMUM ADA AND LOCAL STANDARDS.

REFER TO THE DETAIL SHEETS FOR DETAILS OF ON-SITE SIGNAGE, STRIPING, AND PAVEMENT MARKING. REFER TO SITE PLAN FOR ADDITIONAL DIMENSIONAL INFORMATION.

ALL HEIGHTS AND SETBACKS SHALL MEET THE MINIMUM STANDARDS SET FORTH IN THE LOCAL CODE.

THE CONTRACTOR SHALL EMPLOY ALL NECESSARY BARRICADES, SIGNS, FENCES, FLASHING LIGHTS, TRAFFIC MEN, ETC. FOR MAINTENANCE AND PROTECTION OF TRAFFIC AS REQUIRED.

THE CONTRACTOR SHALL PROTECT ALL MONUMENTS, IRON PINS, AND PROPERTY CORNERS DURING CONSTRUCTION.

CONTRACTOR AGREES TO REPAIR ANY DAMAGE TO THE PUBLIC RIGHT-OF-WAY IN ACCORDANCE WITH THE STANDARDS OF THE GOVERNING DOT.

THE CONTRACTOR SHALL IMMEDIATELY REPORT TO THE OWNER ANY DISCREPANCIES FOUND BETWEEN THE ACTUAL FIELD CONDITIONS AND THE CONSTRUCTION DOCUMENTS AND SHALL WAIT FOR INSTRUCTION PRIOR TO PROCEEDING.

TRAFFIC CONTROL NOTES

REFER TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION) FOR DETAILS OF STANDARD TRAFFIC CONTROL SIGNS AND STANDARDS.

DEMOLITION NOTES

THE CONTRACTOR SHALL FIELD VERIFY AND LOCATE ALL EXISTING UTILITIES ON SITE PRIOR TO ANY DEMOLITION.

THE CONTRACTOR SHALL PERFORM DEMOLITION ACTIVITIES AS NOTED AND SHOWN ON THESE PLANS.

IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY PERMITS AND PAY FEES REQUIRED FOR DEMOLITION AND HAUL-OFF FROM THE APPROPRIATE AUTHORITIES. THESE FEES ARE TO BE INCLUDED WITH THE BID.

THE CONTRACTOR SHALL PREPARE ALL DOCUMENTS AND ACQUIRE APPROPRIATE PERMITS AS REQUIRED PRIOR TO THE COMMENCEMENT OF DEMOLITION.

THE DEMOLITION PLAN IS INTENDED TO DEPICT GENERAL DEMOLITION AND UTILITY WORK. IT IS NOT INTENDED TO IDENTIFY EACH ELEMENT OF DEMOLITION OR RELOCATION. CONTRACTOR SHALL COORDINATE WITH THE OWNER AND APPROPRIATE UTILITY COMPANY PRIOR TO WORK.

IN ACCORDANCE WITH THE DEMOLITION PLAN, CONTRACTOR TO COMPLETELY DEMOLISH AND DISPOSE OF OFFSITE IN A LAWFUL MANNER EXISTING BUILDINGS, INCLUDING FOUNDATIONS AND ALL APPURTENANCES LOCATED ON AND AROUND THE PROPERTY INCLUDING BUT NOT LIMITED TO BOLLARDS, GAS METERS, AIR CONDITIONING UNITS, SIGNS, CURBS, SIDEWALKS, ELECTRIC METERS, FENCING, ETC.

REMOVE AND/OR PLUG EXISTING UTILITIES SUCH AS SANITARY SEWER, WATER, GAS, ELECTRIC, AND TELEPHONE AS SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING EACH UTILITY COMPANY TO COORDINATE REMOVAL OF ALL UTILITIES AND FOR DETERMINING HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES PRIOR TO COMMENCING WORK.

THE CONTRACTOR SHALL CUT AND PLUG, OR ARRANGE FOR THE APPROPRIATE UTILITY COMPANY TO CUT AND PLUG, ALL SERVICE PIPING AT THE STREET LINE OR MAIN, AS REQUIRED, OR AS OTHERWISE NOTED. ALL SERVICES MAY NOT BE SHOWN ON THIS PLAN. THE CONTRACTOR SHALL INVESTIGATE THE SITE PRIOR TO BIDDING TO DETERMINE THE EXTENT OF SERVICE PIPING TO BE REMOVED, CUT OR PLUGGED.

THE CONTRACTOR SHALL ARRANGE FOR RESETTING OF CURB BOXES, VALVE BOXES AND REMOVAL AND/OR RELOCATION OF OVERHEAD UTILITIES AND POLES WITH THE APPROPRIATE UTILITY COMPANY.

INSTALL ALL EROSION AND SEDIMENT CONTROL DEVICES AND TREE PROTECTION PRIOR TO BEGINNING DEMOLITION WORK.

THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES TO REMAIN IN PLACE.

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO AVOID UNNECESSARY DAMAGE TO EXISTING ROAD SURFACE.

SAWCUT AT INTERFACE OF PAVEMENT OR CURB TO REMAIN. SAWCUT EXISTING PAVEMENT AT THE R/W.

ALL EXISTING ITEMS TO REMAIN WHICH ARE DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE SOLE EXPENSE OF THE CONTRACTOR.

THE CONTRACTOR SHALL MAINTAIN ALL UTILITY SERVICES TO THE ADJOINING PROPERTIES DURING THE DEMOLITION PROCESS.

SHOULD ANY UNCHARTED OR INCORRECTLY CHARTED EXISTING PIPING OR OTHER UTILITY BE UNCOVERED DURING EXCAVATION, CONSULT THE ENGINEER IMMEDIATELY FOR DIRECTION BEFORE PROCEEDING FURTHER WITH WORK IN THIS AREA.

ASBESTOS OR HAZARDOUS MATERIAL, IF FOUND ON SITE, SHALL BE REMOVED BY A LICENSED HAZARDOUS MATERIAL CONTRACTOR AND DISPOSED OF PROPERLY .

AS-BUILT NOTE

CONTRACTOR SHALL PROVIDE THE NECESSARY SIGNED/SEALED AS-BUILT SURVEY(S) TO ENGINEER AS REQUIRED FOR FINAL APPROVAL BY THE LOCAL JURISDICTION AT LEAST 30 DAYS PRIOR TO PROJECT COMPLETION. AS-BUILT SURVEY(S) SHALL INCLUDE ALL RIM ELEVATIONS, INVERTS, PIPE SIZES & MATERIALS, AND PIPE SLOPES FOR ALL STORM AND SANITARY SEWERS. IN JURISDICTIONS WHERE AN AS-BUILT HYDROLOGY ANALYSIS OR STORMWATER “CERTIFICATION” IS REQUIRED BY THE ENGINEER OF RECORD, THE CONTRACTOR SHALL ALSO SUPPLY ALL NECESSARY DOCUMENTATION REQUIRED FOR THE ENGINEER TO DETERMINE UNDERGROUND POND(S), IF APPLICABLE, PROVIDE THE ADEQUATE STORAGE VOLUMES. SUCH DOCUMENTATION MAY INCLUDE, BUT SHALL NOT BE LIMITED TO, PHOTOGRAPHS OF SYSTEM INSTALLATION, COMPACTION REPORTS UNDER AND ABOVE THE SYSTEM, DELIVERY TICKETS, SHOP DRAWINGS, ELEVATIONS OF STONE BEDDING (TOP AND BOTTOM), AS WELL AS THE HORIZONTAL LIMITS OF STONE.

EROSION CONTROL NOTES

CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THESE DRAWINGS. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.

BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS, AS APPLICABLE. CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY OR OWNER.

CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL.

ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE CONTAINED AND PROPERLY TREATED OR DISPOSED.

SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.

DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.

RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORMWATER DISCHARGE INTO DRAINAGE DITCHES OR JURISDICTIONAL WATERS.

ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THE EROSION AND SEDIMENT CONTROL PLANS SHALL BE INITIATED AS SOON AS PRACTICABLE.

DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY SEEDED. THESE AREAS SHALL BE SEEDED NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO THE EROSION CONTROL PLANS AND/OR LANDSCAPE PLAN.

IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.

ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER.

CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING SEDIMENT FROM THE EROSION CONTROL BASINS AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.

SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.

ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY. THIS INCLUDES BACKFILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.

ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STATE EROSION AND SEDIMENT CONTROL REGULATIONS, U.S. DEPARTMENT OF AGRICULTURE, AND U.S. SOIL CONSERVATION SERVICE REGULATIONS.

THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES TO MINIMIZE EROSION. THE CONTRACTOR SHALL MAINTAIN CLOSE CONTACT WITH THE INSPECTOR SO THAT PERIODIC INSPECTIONS CAN BE PERFORMED AT APPROPRIATE STAGES OF CONSTRUCTION.

STABILIZATION IS THE BEST FORM OF EROSION CONTROL. ALL DISTURBED AREAS WHICH ARE NOT OTHERWISE STABILIZED SHALL BE TOP SOILED AND SEEDED, TEMPORARILY OR PERMANENTLY IN ACCORDANCE WITH THE STATE REGULATIONS. TOPSOILING, PERMANENT SEEDING AND GRASS ESTABLISHMENT IS REQUIRED PRIOR TO PROJECT COMPLETION AND ACCEPTANCE.

ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.

WHEN A CRUSHED STONE CONSTRUCTION ENTRANCE HAS BEEN COVERED WITH SOIL OR HAS BEEN PUSHED INTO THE SOIL BY CONSTRUCTION TRAFFIC, IT SHALL BE REPLACED, AT NO ADDITIONAL COST TO THE OWNER, WITH A DEPTH OF STONE EQUAL TO THAT OF THE ORIGINAL APPLICATION.

ALL DRAINAGE INLETS SHALL BE PROTECTED FROM SILTATION. INEFFECTIVE PROTECTION DEVICES SHALL BE IMMEDIATELY REPLACED AND THE INLET CLEANED. FLUSHING IS NOT AN ACCEPTABLE METHOD OF CLEANING.

SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE.

STABILIZATION MEASURES SHALL BE APPLIED TO STRUCTURES SUCH AS DAMS, DIKES AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.

LIMITS OF GRADING SHOWN ON THE PLAN ARE MAXIMUM LIMITS FOR EROSION CONTROL PURPOSES ONLY. SURVEYOR TO DETERMINE ACTUAL LIMIT.

ALL MEASURES STATED ON THE EROSION AND SEDIMENT CONTROL PLANS, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A 0.5" RAINFALL EVENT, AND CLEANED AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

> CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE CONSTRUCTION DRAWINGS. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST OF OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
>
> INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION.
>
> ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEEDED AS NEEDED.
>
> SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE.
>
> THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND.
>
> OUTLET STRUCTURES IN THE SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 50%.

GRADING NOTES

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

ALL CUT OR FILL SLOPES SHALL BE 2:1 OR FLATTER UNLESS OTHERWISE NOTED.

EXISTING AND PROPOSED GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT

CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.

CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.

TOPOGRAPHIC INFORMATION TAKEN FROM A TOPOGRAPHIC SURVEY BY DZT LAND SURVEYING, PLLC.

ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3H:1V OR STEEPER. CONTRACTOR SHALL GRASS AND MAINTAIN DISTURBED AREAS UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.

CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.

ALL WORK AND MATERIALS SHALL COMPLY WITH ALL STATE AND LOCAL REGULATIONS AND CODES AND O.S.H.A. STANDARDS.

ALL PROPOSED CONTOURS AND SPOT ELEVATIONS REFLECT FINISHED GRADES.

ALL ELEVATIONS ARE IN REFERENCE TO THE BENCHMARK, AND THIS MUST BE VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO GROUND BREAKING.

THE CONTRACTOR SHALL IMMEDIATELY REPORT TO OWNER ANY DISCREPANCIES FOUND BETWEEN ACTUAL FIELD CONDITIONS AND CONSTRUCTION DOCUMENTS AND SHALL WAIT FOR INSTRUCTION PRIOR TO PROCEEDING.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING EXISTING UTILITIES, AND SHALL REPAIR ALL DAMAGE TO EXISTING UTILITIES THAT OCCUR DURING CONSTRUCTION.

CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY TO TRANSITION BACK TO EXISTING GRADE.

ALL SITE PREPARATION AND UNSUITABLE SOIL REMOVAL, AS WELL AS THE PLACEMENT OF FILL MATERIALS SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL REPORT (BY OTHERS).

LIMITS OF CLEARING SHOWN ON GRADING PLAN ARE BASED UPON THE APPROXIMATE CUT AND FILL SLOPE LIMITS, OR OTHER GRADING REQUIREMENTS.

THE PROPOSED CONTOURS SHOWN IN DRIVES AND PARKING LOTS AND SIDEWALKS ARE FINISHED ELEVATIONS INCLUDING PAVEMENT. REFER TO PAVEMENT CROSS SECTION DATA TO ESTABLISH CORRECT SUBBASE OR AGGREGATE BASE COURSE ELEVATIONS.

CONTRACTOR SHALL INSURE POSITIVE DRAINAGE SO THAT RUNOFF WILL DRAIN BY GRAVITY FLOW ACROSS NEW PAVEMENT AREAS TO NEW OR EXISTING DRAINAGE INLETS OR SHEET OVERLAND.

ANY GRADING BEYOND THE LIMITS OF CONSTRUCTION AS SHOWN ON THE GRADING PLAN IS PROHIBITED.

THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF ALL SHEETING, SHORING, BRACING AND SPECIAL EXCAVATION MEASURES REQUIRED TO MEET OSHA, FEDERAL, STATE AND LOCAL REGULATIONS PURSUANT TO THE INSTALLATION OF THE WORK INDICATED ON THESE DRAWINGS. THE DESIGN ENGINEER ACCEPTS NO RESPONSIBILITY FOR THE DESIGN(S) TO INSTALL SAID ITEMS.

THE CONTRACTOR SHALL INCLUDE IN THE BID ANY DEWATERING AND MOISTURE CONDITIONING NECESSARY TO CONSTRUCT THE PROJECT AS SHOWN ON THE PLANS.

ALL FOUNDATION EXCAVATION SHALL BE INSPECTED BY A QUALIFIED GEOTECHNIAL REPRESENTATIVE TO DETERMINE WHETHER UNSUITABLE MATERIAL MUST BE REMOVED. ALL UNDESIRABLE MATTER SHALL BE REMOVED, BACKFILLED AND COMPACTED AS REQUIRED BY THE GEOTECHNICAL REPRESENTATIVE.

GRADES, ELEVATIONS AND LOCATIONS SHOWN ARE APPROXIMATE. AS DIRECTED BY THE ENGINEER, THEY MAY BE ADJUSTED TO ACCOMMODATE UNFORESEEN CONDITIONS. STATIONS, OFFSETS AND ELEVATIONS REFER TO THE CENTER OF DROP INLETS, MANHOLES AND JUNCTION BOXES, AND THE MIDPOINT OF THE LIP FOR CATCH BASINS.

CONTRACTOR TO ENSURE THAT ALL ADA ROUTES, SIDEWALKS, PATHS, ETC. HAVE A LONGITUDINAL SLOPE OF LESS THAN 5% AND A CROSS SLOPE OF LESS THAN 2%. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY, AND PRIOR TO POURING OF CONCRETE, IF ANY ADA ROUTES EXCEED THE CRITERIA LISTED ABOVE.

DRAINAGE NOTES

CONTRACTOR TO CONFIRM STRUCTURE ELEVATIONS SHOWN AND PROVIDE SHOP DRAWINGS TO OWNER & ENGINEER FOR REVIEW PRIOR TO ORDERING OF OR INSTALLATION OF STRUCTURES.

PRECAST STRUCTURES MAY BE USED AT CONTRACTORS OPTION.

STORM PIPE SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:
- TYPE 1: RCP, CLASS III PER ASTM C-76, WITH FLEXIBLE PLASTIC BITUMEN GASKETS AT JOINTS.
- TYPE 2: SPIRAL RIB METAL PIPE TYPE 1R: ALUMINIZED COATED AS SPECIFIED ON CONSTRUCTION DRAWINGS. ONLY PERMITTED WHEN SPECIFICALLY INDICATED ON CONSTRUCTION DRAWINGS. PIPE ENDS SHALL BE RE-CORRUGATED AND INSTALLED WITH SEMI-CORRUGATED HUGGER-TYPE BANDS AND "O" RING GASKETS IN ACCORDANCE WITH PIPE MANUFACTURER'S INSTALLATION REQUIREMENTS. SPIRAL RIB METAL PIPE MUST COMPLY WITH ASTM A 760 TYPE 1R. ACCEPTABLE MANUFACTURER: CONTECH, INC." ULTRA FLO OR ULTRA FLO II", CALDWELL CULVERT CO. "SMOOTH RIB", OR APPROVED EQUAL.
- TYPE 3: HIGH DENSITY POLYETHYLENE, ADS N-12 ST IB PIPE (PER AASHTO M294), OR APPROVED EQUAL, SHALL HAVE A SMOOTH INTERIOR AND ANNULAR EXTERIOR CORRUGATIONS. 4- THROUGH 60-INCH SHALL MEET AASHTO M294. PIPE SHALL BE JOINED USING A BELL & SPIGOT JOINT MEETING AASHTO M294. THE JOINT SHALL BE SOIL-TIGHT AND GASKETS, WHEN APPLICABLE, SHALL MEET THE REQUIREMENTS OF ASTM F477. FITTINGS SHALL CONFORM TO ASTM F 2306. MATERIAL FOR PIPE PRODUCTION SHALL BE AN ENGINEERED COMPOUND OF VIRGIN AND RECYCLED HIGH DENSITY POLYETHYLENE CONFORMING WITH THE MINIMUM REQUIREMENTS OF CELL CLASSIFICATION 424420C (ESCR TEST CONDITION B) FOR 4- THROUGH 10-INCH (100 TO 250 MM) DIAMETERS, AND 435420C (ESCR TEST CONDITION B) FOR 12- THROUGH 60-INCH DIAMETERS, AS DEFINED AND DESCRIBED IN THE LATEST VERSION OF ASTM D3350, EXCEPT THAT CARBON BLACK CONTENT SHOULD NOT EXCEED 4%. INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM D2321 OR PER MANUFACTURER'S RECOMMENDATION.

EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED, AND EXISTING PIPES TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.

IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.

ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT.

ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING RING & COVERS. MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE FINISH GRADE. LIDS SHALL BE LABELED "STORM SEWER".

ALL STORM STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR INVERT FROM INVERT IN TO INVERT OUT.

ALL STORM DRAINAGE WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE CLASS III REINFORCED CONCRETE PIPE, UNLESS OTHERWISE SHOWN.

A MINIMUM GRADE OF 0.50% SHALL BE MAINTAINED ON ALL PIPES.

ALL PIPE LENGTHS AND SLOPES ARE APPROXIMATE.

ALL PIPES SHALL BE LAID ON STRAIGHT ALIGNMENTS AND EVEN GRADES USING A PIPE LASER OR OTHER ACCURATE METHOD.

SUBSURFACE DRAINAGE FACILITIES MAY RE REQUIRED IN THE STREET RIGHT-OF-WAY IF DEEMED NECESSARY BY THE INSPECTOR.

UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA:
- A. NO MORE THAN 500 LF OF TRENCH MAY BE OPENED AT ONE TIME.
- B. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.
- C. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY.
- D. MATERIAL USED FOR BACK-FILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.
- E. DESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL REGULATIONS.
- F. APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH.

THIS PLAN DETAILS PIPES UP TO 5FT FROM THE BUILDING FACE. REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING CONNECTIONS. CONTRACTOR SHALL SUPPLY AND INSTALL PIPE ADAPTERS AS NECESSARY.

STRUCTURE TOP ELEVATIONS SHOWN HERE ARE APPROXIMATE. CONTRACTOR SHALL ADJUST AS NECESSARY.

UTILITY NOTES

ALL FILL MATERIAL IS TO BE IN PLACE, AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.

CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES INSPECTORS 72-HOURS BEFORE CONNECTING TO ANY EXISTING LINE.

SANITARY SEWER PIPE, AS SHOWN ON PLANS, SHALL BE AS FOLLOWS:
- PVC PER ASTM D 3034
- DUCTILE IRON PIPE PER AWWA C150
- PIPE RUNS BETWEEN MANHOLES TO BE THE SAME CLASS.

WATER LINES, AS SHOWN ON PLANS, SHALL BE AS FOLLOWS:
- PVC C-900 PER ASTM D 2241, CLASS 200 UNDER PUBLIC ROADS, OTHERWISE CLASS 150
- DUCTILE IRON PIPE PER AWWA C150
- EITHER COPPER TUBE TYPE "L" (SOFT) PER ANSI 816.22
- PVC, 200 P.S.I. PER ASTM D1784 AND D2241.

MINIMUM TRENCH WIDTH SHALL BE 2 FEET.

ALL WATER JOINTS ARE TO BE MECHANICAL JOINTS WITH THRUST BLOCKING AS CALLED OUT IN THE SPECIFICATIONS.

ALL UTILITIES SHOULD BE KEPT TEN (10') APART (PARALLEL) OR WHEN CROSSING 18" VERTICAL CLEARANCE (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE).

CONTRACTOR SHALL MAINTAIN A MINIMUM OF 3'-0" COVER ON ALL WATERLINES UNLESS OTHERWISE SPECIFIED BY UTILITY PROVIDER.

IN THE EVENT OF A VERTICAL CONFLICT BETWEEN WATERLINES, SANITARY LINES, STORM LINES AND GAS LINES (EXISTING AND PROPOSED), THE SANITARY LINE SHALL BE DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT LEAST 10 FEET ON BOTH SIDES OF CROSSING, THE WATERLINE SHALL HAVE MECHANICAL JOINTS WITH APPROPRIATE THRUST BLOCKING AS REQUIRED TO PROVIDE A MINIMUM OF 18" CLEARANCE. MEETING REQUIREMENTS OF ANSI A21.10 OR ANSI 21.11 (AWWA C-151) (CLASS 50).

LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING.

TOPS OF EXISTING MANHOLES SHALL BE RAISED AS NECESSARY TO BE FLUSH WITH PROPOSED PAVEMENT ELEVATIONS, AND TO BE ONE FOOT ABOVE FINISHED GROUND ELEVATIONS IN UNPAVED AREAS WITH WATER TIGHT LIDS.

ALL CONCRETE FOR ENCASEMENTS SHALL HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH AT 3,000 P.S.I.

DRAWINGS DO NOT PURPORT TO SHOW ALL EXISTING UTILITIES.

EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES.

REFER TO INTERIOR PLUMBING DRAWINGS FOR TIE-IN OF ALL UTILITIES.

CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE SPECIFICATIONS OF THE LOCAL JURISDICTION WITH REGARDS TO MATERIALS AND INSTALLATION OF THE WATER AND SEWER LINES.

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS WAS PROVIDED BY THE LAND SURVEYOR AND IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

ALL EXISTING AND PROPOSED UTILITY MAIN LENGTHS SHOWN ARE APPROXIMATE.

ALL EXISTING UTILITIES PROPOSED TO BE RELOCATED ON THESE PLANS SHALL BE PLACED UNDERGROUND, UNLESS OTHERWISE NOTED.

CONTRACTOR TO REFERENCE MEP PLANS FOR ALL GREASE TRAP SIZING, DETAILS, CLEANOUTS, SAMPLE WELLS, AND VENT PIPING. GREASE TRAPS SHOWN ON CIVIL DRAWINGS ARE FOR REFERENCE ONLY.

PREPARED IN THE OFFICE OF:

GASKINS
+LECRAW

3475 CORPORATE WAY
SUITE A
DULUTH, GA 30096
PHONE - 678.546.8100
www.gaskinslecraw.com

P-2646

REVISIONS:

REV. #	DATE	DRAWN BY:	CHECKED BY:
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CLIENT

PROUD TO SERVE, LLC
155 FOX HUNT LANE, SOUTHERN PINES, NORTH CAROLINA 28387

PROJECT

SCOOTER'S - #2294
130 BRANDYWOOD CT.
PARCEL PIN: 9584-97-8509.000
CAMERON, HARNETT COUNTY, NORTH CAROLINA

SEAL:

SEAL
54209

2/25/2025

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SCALE & NORTH ARROW:

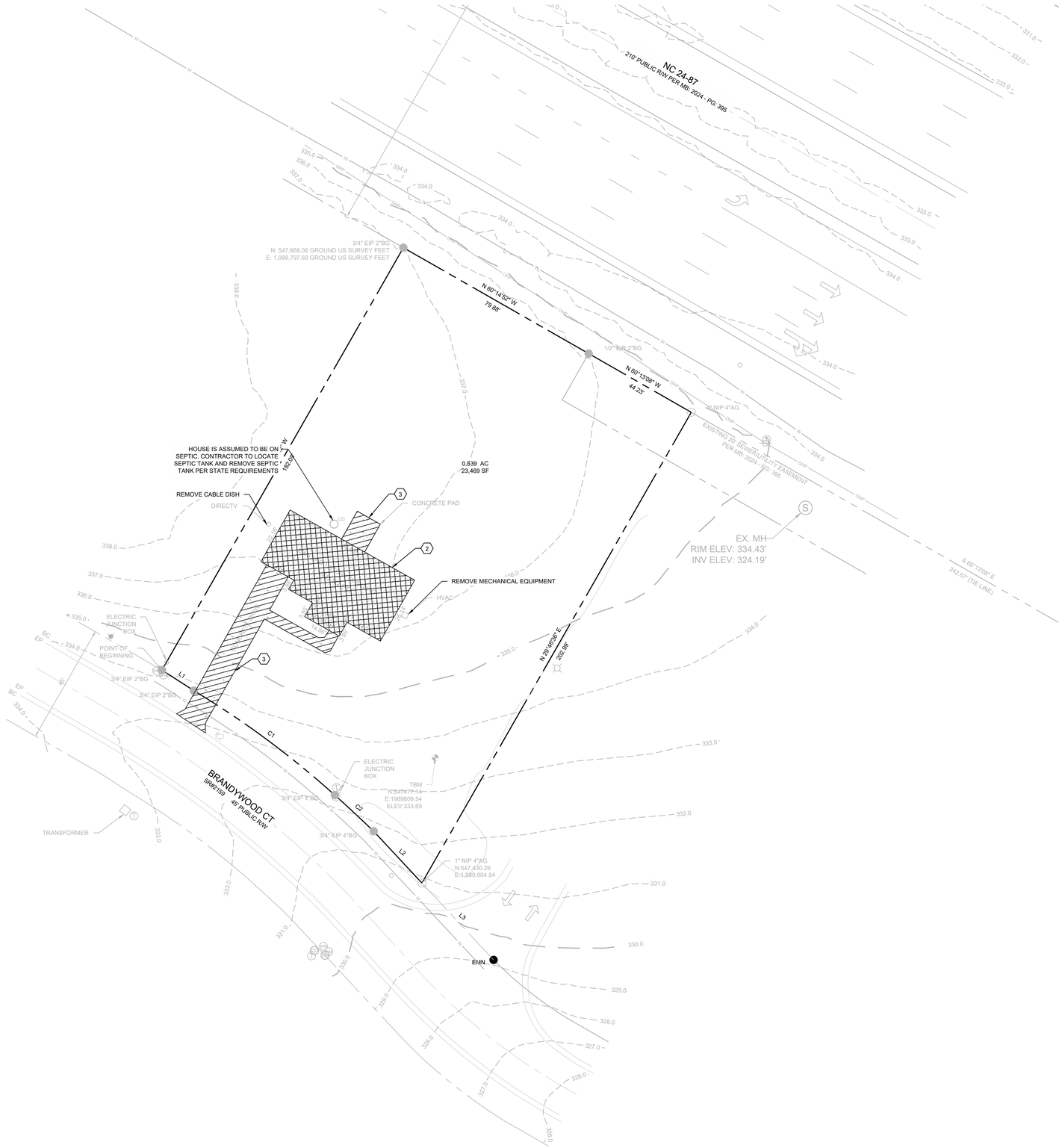
DESIGN INFO:

DRAWN BY:	SOO
DESIGNED BY:	TKS
REVIEWED BY:	TKS
JOB #:	03630032
DATE:	FEBRUARY 25, 2025

GENERAL NOTES

C-0.1

Drawing name: C:\Users\ksharpe\Gaskins+LeCraw Dropbox\Shared Folders\Engineering\03630032 - Scooter's - #2294 - Cameron_NC\CADD\CONSTR\03630032 - 01 - GEN NOTES.dwg   GENERAL NOTES   Feb 25, 2025 11:44am   by: ksharpe



GENERAL DEMOLITION NOTES

1) CONTRACTOR TO ENSURE ALL APPROPRIATE EROSION CONTROL MEASURES, INCLUDING TREE PROTECTION FENCING, ARE IN PLACE PRIOR TO ANY DEMOLITION ACTIVITY TAKING PLACE.

2) CONTRACTOR TO ABIDE BY ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS CONCERNING THE REMOVAL, DEMOLITION, AND/OR DISPOSAL OF POSSIBLE HARMFUL MATERIALS INCLUDING LEAD PAINT, ASBESTOS, ETC. DURING ALL PHASES OF CONSTRUCTION.

3) CONTRACTOR TO SAW CUT EXISTING PAVEMENT FULL DEPTH AT EDGE OF DEMOLITION LIMITS.

4) ALL ITEMS NOTED FOR REMOVAL/DEMOLITION SHALL BE REMOVED FROM THE SITE OR DISPOSED OF IN A LEGAL MANNER.

5) BOUNDARY & TOPOGRAPHIC SURVEY BY DZT LAND SURVEYING, PLLC, DATED 01/15/2025. BENCHMARK IS NOTED ON SURVEY.

6) FLOOD PLAIN IS NOT PRESENT ON THIS SITE AS SHOWN ON THE FEMA FIRM MAP NUMBER 3710958400J, DATED 10/03/2006.

7) VERTICAL DEPTH OF ALL DRY AND PRESSURIZED UTILITIES IS UNKNOWN. CONTRACTOR TO NOTIFY OWNER AND ENGINEER IMMEDIATELY IF ANY CONFLICTS ARE FOUND.

LEGEND

- DEMOLISH EXISTING STRUCTURES
- DEMOLISH EXISTING PAVEMENT
- DEMOLISH EXISTING UTILITIES
- DEMOLISH EXISTING CURB/GUTTER
- X — DEMOLISH EXISTING TREE

KEY NOTES

1	REMOVE EXISTING CURB & GUTTER
2	REMOVE EXISTING BUILDING/STRUCTURE AND FOUNDATION
3	EXISTING PAVEMENT TO BE REMOVED

CAUTION

THE UTILITES SHOWN ARE SHOWN FOR THE CONTRACTORS CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS OF UNDERGROUND UTILITIES, AND IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY THE LOCATIONS OF ALL UTILITIES SHOWN AS WELL AS THOSE NOT SHOWN WITHIN THE CONSTRUCTION LIMITS. ALL DAMAGE MADE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

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GASKINS +LECRAW

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PROJECT

SCOOTER'S - #2294

130 BRANDYWOOD CT.
PARCEL PIN: 9584-97-8509.000
CAMERON, HARNETT COUNTY, NORTH CAROLINA

SEAL:

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
SEAL 54209
ENGINEER
TIMOTHY KYLE SHARPE

2/25/2025

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SCALE & NORTH ARROW:

NORTH ARROW

0' 10' 20' 40'

SCALE: 1" = 20'

DESIGN INFO:

DRAWN BY:	SOO
DESIGNED BY:	TKS
REVIEWED BY:	TKS
JOB #:	03630032
DATE:	FEBRUARY 25, 2025

DEMOLITION PLAN

C-1.0

Drawing name: C:\Users\ksharpe\Gaskins+LeCraw Dropbox\Shared Folders\Engineering\03630032 - Scooter's - #2294 - Cameron_NC\CADD\CONSTR\03630032 -02 - DEMO.dwg DEMOLITION PLAN Feb 25, 2025 11:44am by: ksharpe

EROSION CONTROL LEGEND

SF	SILT FENCE
LOD	LIMIT OF DISTURBANCE
SF	SILT FENCE
CE	CONSTRUCTION ENTRANCE
TS	TEMPORARY STABILIZATION

EROSION CONTROL NARATIVE

SCOOTER'S COFFEE, CAMERON, NC

CONTRACTOR WILL FIRST INSTALL THE CONSTRUCTION ENTRANCE. THE CONTRACTOR SHALL THEN MOBILIZE ON SITE AND INSTALL THE TEMPORARY EROSION CONTROL DEVICES INCLUDING SILT FENCE, AND TREE PROTECTION FENCE IN ACCORDANCE WITH THE PLANS. BEGIN DEMOLITION, CLEARING AND SITE GRADING OPERATIONS. AREAS OUTSIDE THE LIMITS OF THE PROPOSED GRADING ARE TO SEEDED WITH PERMANENT SEEDING IMMEDIATELY AFTER THE STRUCTURE/PAVEMENT IS DEMOLISHED. STABILIZATION OF EARTHEN STRUCTURES IS REQUIRED IMMEDIATELY AFTER INSTALLATION. THE ON-SITE SANITARY SEWER AND WATER SYSTEMS MAY ALSO BE INSTALLED ONCE THE SITE IS BROUGHT TO GRADE. THE SITE PAD WILL BE PREPARED FOR THE PROPOSED BUILDING. THE ROUGH GRADE WILL THEN BE ESTABLISHED FOR THE SITE. INSTALLATION OF CURB AND GUTTER WILL BE PERFORMED AFTER GRADING THE SITE. BASE STONE WILL THEN BE PLACED AND FINE GRADED. ALL DISTURBED AREAS WILL BE DRESSED AND SEEDED/STABILIZED PER THE APPROVED EROSION CONTROL AND LANDSCAPE PLANS. PAVING AND STRIPING WILL THEN BE COMPLETED. ALL LANDSCAPING WILL BE COMPLETED (PER APPROVED PLANS). ALL ACCUMULATED SEDIMENT BEHIND SILT FENCE AND OTHER SEDIMENT DEVICES SHALL BE REMOVED AND DISPOSED OF IN A LEGAL MANNER. WITHIN 21 DAYS OF FINAL SITE STABILIZATION, REMOVE ALL REMAINING SEDIMENT CONTROL MEASURES FROM THE SITE. CONTRACTOR SHALL MINIMIZE THE LENGTH OF TIME BETWEEN INITIAL LAND DISTURBANCE AND FINAL VEGETATION STABILIZATION OF THE SITE.

THE PROPOSED EROSION AND SEDIMENT CONTROL MEASURES ARE INTENDED TO TRAP ANY STORMWATER RUNOFF FROM THE CONSTRUCTION SITE AND DETAIN IT LONG ENOUGH FOR SEDIMENT AND POLLUTANTS TO SETTLE OUT OF THE STORMWATER BEFORE DISCHARGE. VARIOUS EROSION CONTROL MEASURES ARE USED TO PREVENT POLLUTANT-LADEN STORMWATER RUNOFF FROM FLOWING ONTO ADJACENT PROPERTIES. THE CONTRACTOR SHALL AT HIS EXPENSE IMPLEMENT ADDITIONAL BMP'S, AS NECESSARY, TO PREVENT THE ESCAPE OF SEDIMENT FROM THE SITE.

SEDIMENT & EROSION CONTROL NOTES

1. THE EROSION AND SEDIMENTATION CONTROL MEASURES (BMPS) WERE DESIGNED USING THE NORTH CAROLINA NCDENR AND THE LOCAL JURISDICTION REQUIREMENTS AND SHALL BE INSTALLED ACCORDINGLY. CONTRACTOR SHALL PERFORM ALL ACTIVITIES IN STRICT COMPLIANCE WITH THE NORTH CAROLINA NPDES GENERAL PERMIT FOR STORM WATER DISCHARGES FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES (GENERAL PERMIT).
2. REFER TO THE EROSION AND SEDIMENT CONTROL DETAIL SHEETS FOR EROSION CONTROL DETAILS AND DESIGN TABLES FOR SEDIMENT BASINS, DIVERSION DITCHES, AND CULVERTS, SLOPE DRAINS, RIP-RAP APRONS AND OTHER EROSION CONTROL MEASURES.
3. EXISTING BOUNDARIES, TOPOGRAPHY, 100-YR FLOODPLAIN, UTILITY AND ROAD INFORMATION TAKEN FROM AN EXISTING CONDITIONS SURVEY. ALL EXISTING INFORMATION IS TO BE FIELD VERIFIED BY THE CONTRACTOR.
4. SEE THE LANDSCAPE PLAN FOR LOCATIONS OF PROPOSED PLANTINGS AND FINAL STABILIZATION.
5. TEMPORARY DIVERSION DITCHES AND BERMS AND THE TEMPORARY SEDIMENT TRAP WILL BE MAINTAINED AS THE SITE IS BROUGHT TO GRADE.
6. DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES TO MINIMIZE EROSION. THE CONTRACTOR SHALL MAINTAIN CLOSE CONTACT WITH THE EROSION CONTROL INSPECTORS SO THAT PERIODIC INSPECTIONS CAN BE PERFORMED AT APPROPRIATE STAGES OF CONSTRUCTION.
7. SEE THE GENERAL NOTES SHEET AND THE GRADING AND DRAINAGE PLAN FOR OTHER NOTES REGARDING GRADING ACTIVITIES.
8. SEE SITE PLAN, GRADING AND DRAINAGE PLAN, UTILITY PLAN, PLANTING PLAN AND OTHER PLAN SHEETS FOR DETAILED DESIGN INFORMATION OF PERMANENT SITE APPURTENANCES SHOWN ON THIS SHEET
9. WHERE THE LIMITS OF DISTURBANCE AND TEMPORARY FENCE (SF OR TPF) LIMITS ARE ADJACENT, THE TEMPORARY FENCE LINE IS THE LIMITS OF DISTURBANCE. THE LINE TYPES ARE SHOWN SEPARATED FOR ILLUSTRATIVE PURPOSES ONLY.
10. CONTRACTOR SHALL NOT DISTURB ANY EXISTING VEGETATIVE GROUND COVER OR TREES OUTSIDE OF THE LIMITS OF DISTURBANCE OR WITHIN ANY REQUIRED BUFFER LIMITS UNLESS OTHERWISE NOTED OR ILLUSTRATED.
11. PROVIDE CONTROLS OF POLLUTANTS, INCLUDING, BUT NOT LIMITED TO DUST CONTROL. DE-WATERING, SCUD WASTE DISPOSAL, AND HAZARDOUS MATERIALS.
12. CLEAR ONLY AS REQUIRED TO INSTALL EROSION AND SEDIMENTATION CONTROL MEASURES OUTLINED IN THE PHASE 1 CONSTRUCTION SEQUENCE. MASS CLEARING AND GRUBBING CAN BEGIN ONLY AFTER ALL DOWNSTREAM MEASURES HAVE BEEN INSTALLED.
13. USE ROCK OR WASHED STONE TO BRING CONSTRUCTION EXIT TO GRADE. IMPLEMENT WHEEL WASHES AS NECESSARY THROUGHOUT ALL PHASES OF CONSTRUCTION.
14. DIVERT STORM WATER RUNOFF OFF THE FACE OF THE SEDIMENT BASIN SLOPES USING DIVERSION DITCHES AND SLOPE DRAINS. CONTRACTOR SHALL MAINTAIN AND RELOCATE DIVERSION DITCHES AND SLOPES DRAINS TO ENSURE STORM WATER RUNOFF DOES NOT ERODE THE FACE OF FINAL SLOPES.
15. MAINTAIN POSITIVE FLOW TO THE SEDIMENT BASINS THROUGHOUT ALL PHASES OF CONSTRUCTION. PLACE EXCAVATED SOILS ALONG DOWNSTREAM EDGE OF THE DIVERSION DITCHES TO PROVIDE ADDITIONAL CAPACITY.
16. REFER TO THE GRADING AND DRAINAGE PLAN FOR FINAL SITE AND PAVEMENT GRADES AND ELEVATIONS OF THE PROPOSED STORM SEWER SYSTEMS.
17. LAND DISTURBING ACTIVITIES SHALL NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN RECEIVED BY GOVERNING AUTHORITIES. THE GENERAL CONTRACTOR SHALL STRICTLY ADHERE TO THE APPROVED EROSION AND SEDIMENT CONTROL DRAWINGS DURING CONSTRUCTION OPERATIONS.
18. GENERAL CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
19. ALL WORK SHALL BE CONFINED TO PERMIT LIMITS SHOWN ON PLANS. UNLESS OTHERWISE NOTED, THE SITE PLAN PROPERTY LIMITS SHALL BE CONSIDERED THE PERMIT LIMITS.
20. SUFFICIENT EROSION CONTROL PRACTICES MUST BE INSTALLED AND MAINTAINED TO RETAIN SEDIMENT WITHIN THE BOUNDARIES OF THE SITE.
21. ADDITIONAL EROSION CONTROL MEASURES OR SILT BARRIERS TO BE PLACED AS SHOWN AND/OR DIRECTED BY THE PROJECT ENGINEER AND/OR LOCAL JURISDICTIONAL INSPECTOR.
22. FOR ALL CONSTRUCTION ALONG AND/OR ACROSS WATERWAYS, BANK PROTECTION AND STABILIZATION SHALL BE REQUIRED AS PER LOCAL JURISDICTIONAL EROSION CONTROL LAWS.
23. ALL TREE PROTECTION AND EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCING CONSTRUCTION AND SHALL BE MAINTAINED IN PROPER WORKING ORDER UNTIL ALL DISTURBED AREAS ARE STABILIZED AND GROUND COVER IS ESTABLISHED. CONSTRUCTION ENTRANCE PADS SHALL BE INSTALLED BY THE CONTRACTOR AT CONSTRUCTION ACCESS POINTS PRIOR TO LAND DISTURBANCE.
24. ALL EASEMENTS DISTURBED MUST BE DRESSED AND GRASSED TO CONTROL EROSION IN ACCORDANCE WITH EASEMENT PLATS PRIOR TO ACCEPTANCE.
25. CONSTRUCTION LIMITS SHALL NOT BE EXCEEDED WITHOUT THE APPROVAL OF THE LOCAL JURISDICTION AND NCDENR

GENERAL EROSION CONTROL NOTES

1.) ALL BEST MANAGEMENT PRACTICES ARE TO BE IN ACCORDANCE WITH THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, PUBLISHED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION EROSION AND SEDIMENT CONTROL STANDARDS.
2.) BOUNDARY & TOPOGRAPHIC SURVEY BY DZT LAND SURVEYING, PLLC, DATED 01/15/2025. BENCHMARK IS NOTED ON SURVEY.
3.) SOIL TYPES FOR ENTIRE DISTURBED AREA IS BNB PER NRCS WEB SOIL SURVEY
4.) THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL BE INSTALLED PRIOR TO LAND DISTURBING ACTIVITIES.
5.) EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE. ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION.
6.) SEDIMENT STORAGE MAINTENANCE INDICATORS MUST BE INSTALLED IN SEDIMENT STORAGE STRUCTURES, AS REQUIRED, INDICATING THE 1/3 FULL VOLUME.
7.) MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE PROPERTY OWNER.
8.) WASHOUT OF CONCRETE DRUM AT CONSTRUCTION SITE IS PROHIBITED AND NOT ALLOWED IN WASH AREAS.

TOTAL SITE AREA = 0.54 ACRES
TOTAL DISTURBED AREA = 0.6 ACRES
PHASE 1 DISTURBED AREA = 0.5 ACRES

NORTH CAROLINA CONTROL NOTES

1. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE NCDENR EROSION AND SEDIMENT CONTROL HANDBOOK.
2. THE CONTRACTOR SHALL INSTALL AND MAINTAIN THROUGHOUT THE PROJECT CONSTRUCTION ALL EROSION CONTROL MEASURES SHOWN WITHIN THESE PLANS IN ACCORDANCE WITH APPLICABLE NORTH CAROLINA EROSION AND SEDIMENT CONTROL REGULATIONS.
3. CONSTRUCTION WORK SHALL BE IN COMPLIANCE WITH REGULATIONS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORM WATER GENERAL PERMIT.
4. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO CLEARING AND/OR LAND DISTURBANCE.
5. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN AND PERMIT SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
6. THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES TO MINIMIZE EROSION. THE CONTRACTOR SHALL MAINTAIN CLOSE CONTACT WITH THE NCDENR EROSION CONTROL INSPECTOR SO THAT PERIODIC INSPECTIONS CAN BE PERFORMED AT APPROPRIATE STAGES OF CONSTRUCTION.
7. APPROVAL OF THIS PLAN IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, PERMISSION MUST BE OBTAINED FROM THE AFFECTED PROPERTY OWNERS. A REVISED PLAN SHOWING OFF-SITE IMPACTS SHOULD BE SUBMITTED AND APPROVED PRIOR TO BEGINNING OFF-SITE GRADING. CONTACT PROJECT ENGINEER AND PROJECT EROSION CONTROL INSPECTOR TO ENSURE ADDITIONAL EROSION CONTROL MEASURES ARE INSTALLED PRIOR TO OFF-SITE GRADING.
8. PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO OFF-SITE BORROW OR WASTE AREAS, STAGING OR STORAGE AREAS, IF APPLICABLE), THE CONTRACTOR SHALL PREPARE AND SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND TO NCDENR FOR APPROVAL. CONTRACTOR SHALL PAY ALL FEES REQUIRED AND SHALL INSTALL NECESSARY MEASURES AT NO SEPARATE PAYMENT. THE CONTRACTOR SHALL PROVIDE THE OWNER AND THE ENGINEER A COPY OF THE AMENDED PERMIT.
9. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED CONTINUOUSLY, RELOCATED WHEN AND AS NECESSARY, AND SHALL BE CHECKED AFTER EVERY RAINFALL SEEDED AREAS SHALL BE CHECKED REGULARLY AND SHALL BE WATERED, FERTILIZED, RE-SEEDED AND MULCHED AS NECESSARY TO OBTAIN A DENSE STAND OF GRASS.
10. STABILIZATION IS THE BEST FORM OF EROSION CONTROL. ALL DISTURBED AREAS WHICH ARE NOT OTHERWISE STABILIZED SHALL BE TOP SOILED AND SEEDED, TEMPORARILY OR PERMANENTLY IN ACCORDANCE WITH THE NCDENR SEDIMENT CONTROL REGULATIONS. PERMANENT SEEDING AND GRASS ESTABLISHMENT IS REQUIRED PRIOR TO PROJECT COMPLETION AND ACCEPTANCE.
11. WHEN A CRUSHED STONE CONSTRUCTION ENTRANCE HAS BEEN COVERED WITH SOIL OR HAS BEEN PUSHED INTO THE SOIL BY CONSTRUCTION TRAFFIC, IT SHALL BE REPLACED WITH A DEPTH OF STONE EQUAL TO THAT OF THE ORIGINAL APPLICATION.
12. TEMPORARY GRAVEL CONSTRUCTION ENTRANCE SHALL BE REQUIRED AT ALL CONSTRUCTION STAGING AREA ENTRANCES AND ALL CONSTRUCTION ACCESS LOCATIONS INTO NON-PAVED AREA. SIX INCHES OF STONE SHALL BE USED FOR THE TEMPORARY GRAVEL CONSTRUCTION ENTRANCE.
13. ALL DRAINAGE INLETS SHALL BE PROTECTED FROM SILTATION. INEFFECTIVE PROTECTION DEVICES SHALL BE IMMEDIATELY REPLACED AND THE INLET CLEANED. FLUSHING IS NOT AN ACCEPTABLE METHOD OF CLEANING.
14. SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UP-SLOPE LAND DISTURBANCE TAKES PLACE.
15. ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS COMPLETED.
16. DURING DE-WATERING OPERATIONS, WATER SHALL BE PUMPED INTO AN APPROVED FILTERING DEVICE PRIOR TO DISCHARGE TO RECEIVING OUTLET.
17. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.

CONSTRUCTION SEQUENCE

1. CONTRACTOR SHALL ENSURE THAT ALL NECESSARY PERMITS HAVE BEEN RECEIVED AND THAT THOSE REQUIRED TO BE DISPLAYED ON-SITE ARE AVAILABLE.
2. CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION MEETING AT LEAST 48 HOURS BEFORE THE ACTUAL START OF CONSTRUCTION. CONTACT NCDENR INSPECTOR.
3. CONTRACTOR SHALL CONTACT CAROLINA ONE CALL AND ALL ENTITIES HAVING BURIED UTILITIES AT LEAST 72 HOURS PRIOR TO DIGGING OR AS DIRECTED AT THE PRE-CONSTRUCTION MEETING.
4. CONTRACTOR SHALL INSTALL TEMPORARY CONSTRUCTION ENTRANCES AT EACH POINT OF ACCESS TO STORAGE AND CONSTRUCTION AREAS.
5. INITIAL PHASE SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH PLANS BEFORE STARTING WORK INCLUDING SILT FENCE, TEMPORARY SEDIMENT BASIN, TREE PROTECTION, ETC., CLEARING ONLY AS NECESSARY FOR THE INSTALLATION OF THESE MEASURES.
6. CONTRACTOR SHALL INCLUDE A RAIN GAUGE AND LOG BOOK CONTAINING THE INSPECTION RECORDS FOR THE SITE.
7. CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL MEASURES. ALL APPLICABLE E&S CONTROL MEASURES MUST BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED.
8. STOCKPILE RIP-RAP ON SITE AND INSTALL ALL OTHER EROSION CONTROL MEASURES WHERE THE WORK IS OCCURRING. THE CONTRACTOR SHALL NOT INSTALL EROSION CONTROL MEASURES IN AREAS WHERE THE WORK WILL NOT OCCUR FOR SOME TIME. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY THE ENGINEER OR UPON RECOMMENDATION OF NCDENR INSPECTION PERSONNEL AS CONDITIONS WARRANT.
9. IN AREAS WHERE IT IS NOT FEASIBLE TO INSTALL EROSION CONTROL DEVICES, ALL DISTURBED AREAS MUST BE SEEDED AND MULCHED BY THE CONTRACTOR WITHIN THREE DAYS OF INITIAL DISTURBANCE. TEMPORARY SEEDING SHALL BE REQUIRED ON ALL OTHER AREAS TO BE DISTURBED FOR A PERIOD OF 10 DAYS OR LONGER.
10. STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISHED GRADE.
11. UPON COMPLETION OF THE INSTALLATION AND WITH APPROVAL OF NCDENR, ALL EROSION CONTROL DEVICES SHALL BE REMOVED AND DISPOSED OF IN AN ACCEPTABLE MANNER. EACH SECTION SHALL BE SEEDED AT THE EARLIEST POSSIBLE DATE. COORDINATE WITH THE EROSION CONTROL INSPECTOR PRIOR TO REMOVAL OF EROSION CONTROL MEASURES.
12. CONTRACTOR SHALL NOT CONVERT TO PERMANENT BMP FACILITY UNTIL UPSTREAM AREAS ARE STABILIZED. AS PART OF THE CONVERSION FROM THE TO THE PERMANENT STORMWATER BMP ALL ACCUMULATED SEDIMENT WITHIN THE BASIN SHALL BE REMOVED AND DISPOSED OF IN A SUITABLE MANNER. INSTALL FINAL EROSION CONTROL MEASURES AND PERMANENTLY SEED/SOD EXPOSED AREAS.
13. ONCE GROUND COVER IS FIRMLY ESTABLISHED, ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED WITH THE APPROVAL OF NCDENR INSPECTOR.
14. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE N.C. EROSION & SEDIMENT CONTROL PLANNING AND DESIGN MANUAL NCDOT. U.S. DEPT. OF AGRICULTURE. AND COUNTY STANDARDS.

SOIL SERIES

BnB: BLANEY LOAMY SAND, 2 TO 8 PERCENT SLOPES

24 HOUR CONTACT

KEVIN & JENNIFER LEAVITT
402.541.5857
PROUD TO SERVE, LLC

NOTE

CONTRACTOR IS RESPONSIBLE FOR THE SEQUENCE AND TIMING OF ALL EROSION AND SEDIMENT CONTROL MEASURES. PHASING PLANS ARE ONLY A GENERAL GUIDE TO EROSION AND SEDIMENT CONTROL REQUIREMENTS AS DEVELOPMENT OCCURS.

PRIMARY PERMITTEE

PROUD TO SERVE, LLC
155 FOX HUNT LANE
SOUTHERN PINES, NC 28387
402.541.5857
CONTACT:
KEVIN & JENNIFER LEAVITT
PROUDTOSERVELLC@GMAIL.COM

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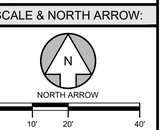

DESIGN INFO:

DRAWN BY:	SOO
DESIGNED BY:	TKS
REVIEWED BY:	TKS
JOB #:	03630032
DATE:	FEBRUARY 25, 2025

ESPC - PHASE 1

C-2.0

EROSION CONTROL LEGEND

SF	SILT FENCE
LOD	LIMIT OF DISTURBANCE
SF	SILT FENCE
CE	CONSTRUCTION ENTRANCE
TS	TEMPORARY STABILIZATION

EROSION CONTROL NARATIVE

SCOOTER'S COFFEE, CAMERON, NC

CONTRACTOR WILL FIRST INSTALL THE CONSTRUCTION ENTRANCE. THE CONTRACTOR SHALL THEN MOBILIZE ON SITE AND INSTALL THE TEMPORARY EROSION CONTROL DEVICES INCLUDING SILT FENCE, AND TREE PROTECTION FENCE IN ACCORDANCE WITH THE PLANS. BEGIN DEMOLITION, CLEARING AND SITE GRADING OPERATIONS. AREAS OUTSIDE THE LIMITS OF THE PROPOSED GRADING ARE TO SEEDED WITH PERMANENT SEEDING IMMEDIATELY AFTER THE STRUCTURE/PAVEMENT IS DEMOLISHED. STABILIZATION OF EARTHEN STRUCTURES IS REQUIRED IMMEDIATELY AFTER INSTALLATION. THE ON-SITE SANITARY SEWER AND WATER SYSTEMS MAY ALSO BE INSTALLED ONCE THE SITE IS BROUGHT TO GRADE. THE SITE PAD WILL BE PREPARED FOR THE PROPOSED BUILDING. THE ROUGH GRADE WILL THEN BE ESTABLISHED FOR THE SITE. INSTALLATION OF CURB AND GUTTER WILL BE PERFORMED AFTER GRADING THE SITE. BASE STONE WILL THEN BE PLACED AND FINE GRADED. ALL DISTURBED AREAS WILL BE DRESSED AND SEEDED/STABILIZED PER THE APPROVED EROSION CONTROL AND LANDSCAPE PLANS. PAVING AND STRIPING WILL THEN BE COMPLETED. ALL LANDSCAPING WILL BE COMPLETED (PER APPROVED PLANS). ALL ACCUMULATED SEDIMENT BEHIND SILT FENCE AND OTHER SEDIMENT DEVICES SHALL BE REMOVED AND DISPOSED OF IN A LEGAL MANNER. WITHIN 21 DAYS OF FINAL SITE STABILIZATION, REMOVE ALL REMAINING SEDIMENT CONTROL MEASURES FROM THE SITE. CONTRACTOR SHALL MINIMIZE THE LENGTH OF TIME BETWEEN INITIAL LAND DISTURBANCE AND FINAL VEGETATION STABILIZATION OF THE SITE.

THE PROPOSED EROSION AND SEDIMENT CONTROL MEASURES ARE INTENDED TO TRAP ANY STORMWATER RUNOFF FROM THE CONSTRUCTION SITE AND DETAIN IT LONG ENOUGH FOR SEDIMENT AND POLLUTANTS TO SETTLE OUT OF THE STORMWATER BEFORE DISCHARGE. VARIOUS EROSION CONTROL MEASURES ARE USED TO PREVENT POLLUTANT-LADEN STORMWATER RUNOFF FROM FLOWING ONTO ADJACENT PROPERTIES. THE CONTRACTOR SHALL AT HIS EXPENSE IMPLEMENT ADDITIONAL BMP'S, AS NECESSARY, TO PREVENT THE ESCAPE OF SEDIMENT FROM THE SITE.

SEDIMENT & EROSION CONTROL NOTES

1. THE EROSION AND SEDIMENTATION CONTROL MEASURES (BMPS) WERE DESIGNED USING THE NORTH CAROLINA NCDENR AND THE LOCAL JURISDICTION REQUIREMENTS AND SHALL BE INSTALLED ACCORDINGLY. CONTRACTOR SHALL PERFORM ALL ACTIVITIES IN STRICT COMPLIANCE WITH THE NORTH CAROLINA NPDES GENERAL PERMIT FOR STORM WATER DISCHARGES FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES (GENERAL PERMIT).
2. REFER TO THE EROSION AND SEDIMENT CONTROL DETAIL SHEETS FOR EROSION CONTROL DETAILS AND DESIGN TABLES FOR SEDIMENT BASINS, DIVERSION DITCHES, AND CULVERTS, SLOPE DRAINS, RIP-RAP APRONS AND OTHER EROSION CONTROL MEASURES.
3. EXISTING BOUNDARIES, TOPOGRAPHY, 100-YR FLOODPLAIN, UTILITY AND ROAD INFORMATION TAKEN FROM AN EXISTING CONDITIONS SURVEY. ALL EXISTING INFORMATION IS TO BE FIELD VERIFIED BY THE CONTRACTOR.
4. SEE THE LANDSCAPE PLAN FOR LOCATIONS OF PROPOSED PLANTINGS AND FINAL STABILIZATION.
5. TEMPORARY DIVERSION DITCHES AND BERMS AND THE TEMPORARY SEDIMENT TRAP WILL BE MAINTAINED AS THE SITE IS BROUGHT TO GRADE.
6. DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES TO MINIMIZE EROSION. THE CONTRACTOR SHALL MAINTAIN CLOSE CONTACT WITH THE EROSION CONTROL INSPECTORS SO THAT PERIODIC INSPECTIONS CAN BE PERFORMED AT APPROPRIATE STAGES OF CONSTRUCTION.
7. SEE THE GENERAL NOTES SHEET AND THE GRADING AND DRAINAGE PLAN FOR OTHER NOTES REGARDING GRADING ACTIVITIES.
8. SEE SITE PLAN, GRADING AND DRAINAGE PLAN, UTILITY PLAN, PLANTING PLAN AND OTHER PLAN SHEETS FOR DETAILED DESIGN INFORMATION OF PERMANENT SITE APPURTENANCES SHOWN ON THIS SHEET.
9. WHERE THE LIMITS OF DISTURBANCE AND TEMPORARY FENCE (SF OR TPF) LIMITS ARE ADJACENT, THE TEMPORARY FENCE LINE IS THE LIMITS OF DISTURBANCE. THE LINE TYPES ARE SHOWN SEPARATED FOR ILLUSTRATIVE PURPOSES ONLY.
10. CONTRACTOR SHALL NOT DISTURB ANY EXISTING VEGETATIVE GROUND COVER OR TREES OUTSIDE OF THE LIMITS OF DISTURBANCE OR WITHIN ANY REQUIRED BUFFER LIMITS UNLESS OTHERWISE NOTED OR ILLUSTRATED.
11. PROVIDE CONTROLS OF POLLUTANTS, INCLUDING, BUT NOT LIMITED TO DUST CONTROL. DE-WATERING, SCUD WASTE DISPOSAL, AND HAZARDOUS MATERIALS.
12. CLEAR ONLY AS REQUIRED TO INSTALL EROSION AND SEDIMENTATION CONTROL MEASURES OUTLINED IN THE PHASE 1 CONSTRUCTION SEQUENCE. MASS CLEARING AND GRUBBING CAN BEGIN ONLY AFTER ALL DOWNSTREAM MEASURES HAVE BEEN INSTALLED.
13. USE ROCK OR WASHED STONE TO BRING CONSTRUCTION EXIT TO GRADE. IMPLEMENT WHEEL WASHES AS NECESSARY THROUGHOUT ALL PHASES OF CONSTRUCTION.
14. DIVERT STORM WATER RUNOFF OFF THE FACE OF THE SEDIMENT BASIN SLOPES USING DIVERSION DITCHES AND SLOPE DRAINS. CONTRACTOR SHALL MAINTAIN AND RELOCATE DIVERSION DITCHES AND SLOPES DRAINS TO ENSURE STORM WATER RUNOFF DOES NOT ERODE THE FACE OF FINAL SLOPES.
15. MAINTAIN POSITIVE FLOW TO THE SEDIMENT BASINS THROUGHOUT ALL PHASES OF CONSTRUCTION. PLACE EXCAVATED SOILS ALONG DOWNSTREAM EDGE OF THE DIVERSION DITCHES TO PROVIDE ADDITIONAL CAPACITY.
16. REFER TO THE GRADING AND DRAINAGE PLAN FOR FINAL SITE AND PAVEMENT GRADES AND ELEVATIONS OF THE PROPOSED STORM SEWER SYSTEMS.
17. LAND DISTURBING ACTIVITIES SHALL NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN RECEIVED BY GOVERNING AUTHORITIES. THE GENERAL CONTRACTOR SHALL STRICTLY ADHERE TO THE APPROVED EROSION AND SEDIMENT CONTROL DRAWINGS DURING CONSTRUCTION OPERATIONS.
18. GENERAL CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
19. ALL WORK SHALL BE CONFINED TO PERMIT LIMITS SHOWN ON PLANS. UNLESS OTHERWISE NOTED, THE SITE PLAN PROPERTY LIMITS SHALL BE CONSIDERED THE PERMIT LIMITS.
20. SUFFICIENT EROSION CONTROL PRACTICES MUST BE INSTALLED AND MAINTAINED TO RETAIN SEDIMENT WITHIN THE BOUNDARIES OF THE SITE.
21. ADDITIONAL EROSION CONTROL MEASURES OR SILT BARRIERS TO BE PLACED AS SHOWN AND/OR DIRECTED BY THE PROJECT ENGINEER AND/OR LOCAL JURISDICTIONAL INSPECTOR.
22. FOR ALL CONSTRUCTION ALONG AND/OR ACROSS WATERWAYS, BANK PROTECTION AND STABILIZATION SHALL BE REQUIRED AS PER LOCAL JURISDICTIONAL EROSION CONTROL LAWS.
23. ALL TREE PROTECTION AND EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCING CONSTRUCTION AND SHALL BE MAINTAINED IN PROPER WORKING ORDER UNTIL ALL DISTURBED AREAS ARE STABILIZED AND GROUND COVER IS ESTABLISHED. CONSTRUCTION ENTRANCE PADS SHALL BE INSTALLED BY THE CONTRACTOR AT CONSTRUCTION ACCESS POINTS PRIOR TO LAND DISTURBANCE.
24. ALL EASEMENTS DISTURBED MUST BE DRESSED AND GRASSED TO CONTROL EROSION IN ACCORDANCE WITH EASEMENT PLATS PRIOR TO ACCEPTANCE.
25. CONSTRUCTION LIMITS SHALL NOT BE EXCEEDED WITHOUT THE APPROVAL OF THE LOCAL JURISDICTION AND NCDENR

GENERAL EROSION CONTROL NOTES

1.) ALL BEST MANAGEMENT PRACTICES ARE TO BE IN ACCORDANCE WITH THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, PUBLISHED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION EROSION AND SEDIMENT CONTROL STANDARDS.
2.) BOUNDARY & TOPOGRAPHIC SURVEY BY DZT LAND SURVEYING, PLLC, DATED 01/15/2025. BENCHMARK IS NOTED ON SURVEY.
3.) SOIL TYPES FOR ENTIRE DISTURBED AREA IS BNB PER NRCS WEB SOIL SURVEY
4.) THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL BE INSTALLED PRIOR TO LAND DISTURBING ACTIVITIES.
5.) EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE. ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION.
6.) SEDIMENT STORAGE MAINTENANCE INDICATORS MUST BE INSTALLED IN SEDIMENT STORAGE STRUCTURES, AS REQUIRED, INDICATING THE 1/3 FULL VOLUME.
7.) MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE PROPERTY OWNER.
8.) WASHOUT OF CONCRETE DRUM AT CONSTRUCTION SITE IS PROHIBITED AND NOT ALLOWED IN WASH AREAS.

TOTAL SITE AREA = 0.54 ACRES
TOTAL DISTURBED AREA = 0.6 ACRES
PHASE 1 DISTURBED AREA = 0.5 ACRES

NORTH CAROLINA CONTROL NOTES

1. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE NCDENR EROSION AND SEDIMENT CONTROL HANDBOOK.
2. THE CONTRACTOR SHALL INSTALL AND MAINTAIN THROUGHOUT THE PROJECT CONSTRUCTION ALL EROSION CONTROL MEASURES SHOWN WITHIN THESE PLANS IN ACCORDANCE WITH APPLICABLE NORTH CAROLINA EROSION AND SEDIMENT CONTROL REGULATIONS.
3. CONSTRUCTION WORK SHALL BE IN COMPLIANCE WITH REGULATIONS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORM WATER GENERAL PERMIT.
4. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO CLEARING AND/OR LAND DISTURBANCE.
5. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN AND PERMIT SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
6. THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES TO MINIMIZE EROSION. THE CONTRACTOR SHALL MAINTAIN CLOSE CONTACT WITH THE NCDENR EROSION CONTROL INSPECTOR SO THAT PERIODIC INSPECTIONS CAN BE PERFORMED AT APPROPRIATE STAGES OF CONSTRUCTION.
7. APPROVAL OF THIS PLAN IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, PERMISSION MUST BE OBTAINED FROM THE AFFECTED PROPERTY OWNERS. A REVISED PLAN SHOWING OFF-SITE IMPACTS SHOULD BE SUBMITTED AND APPROVED PRIOR TO BEGINNING OFF-SITE GRADING. CONTACT PROJECT ENGINEER AND PROJECT EROSION CONTROL INSPECTOR TO ENSURE ADDITIONAL EROSION CONTROL MEASURES ARE INSTALLED PRIOR TO OFF-SITE GRADING.
8. PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO OFF-SITE BORROW OR WASTE AREAS, STAGING OR STORAGE AREAS, IF APPLICABLE), THE CONTRACTOR SHALL PREPARE AND SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND TO NCDENR FOR APPROVAL. CONTRACTOR SHALL PAY ALL FEES REQUIRED AND SHALL INSTALL NECESSARY MEASURES AT NO SEPARATE PAYMENT. THE CONTRACTOR SHALL PROVIDE THE OWNER AND THE ENGINEER A COPY OF THE AMENDED PERMIT.
9. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED CONTINUOUSLY, RELOCATED WHEN AND AS NECESSARY, AND SHALL BE CHECKED AFTER EVERY RAINFALL. SEEDED AREAS SHALL BE CHECKED REGULARLY AND SHALL BE WATERED, FERTILIZED, RE-SEEDED AND MULCHED AS NECESSARY TO OBTAIN A DENSE STAND OF GRASS.
10. STABILIZATION IS THE BEST FORM OF EROSION CONTROL ALL DISTURBED AREAS WHICH ARE NOT OTHERWISE STABILIZED SHALL BE TOP SOILED AND SEEDED, TEMPORARILY OR PERMANENTLY IN ACCORDANCE WITH THE NCDENR SEDIMENT CONTROL REGULATIONS. PERMANENT SEEDING AND GRASS ESTABLISHMENT IS REQUIRED PRIOR TO PROJECT COMPLETION AND ACCEPTANCE.
11. WHEN A CRUSHED STONE CONSTRUCTION ENTRANCE HAS BEEN COVERED WITH SOIL OR HAS BEEN PUSHED INTO THE SOIL BY CONSTRUCTION TRAFFIC, IT SHALL BE REPLACED WITH A DEPTH OF STONE EQUAL TO THAT OF THE ORIGINAL APPLICATION.
12. TEMPORARY GRAVEL CONSTRUCTION ENTRANCE SHALL BE REQUIRED AT ALL CONSTRUCTION STAGING AREA ENTRANCES AND ALL CONSTRUCTION ACCESS LOCATIONS INTO NON-PAVED AREA. SIX INCHES OF STONE SHALL BE USED FOR THE TEMPORARY GRAVEL CONSTRUCTION ENTRANCE.
13. ALL DRAINAGE INLETS SHALL BE PROTECTED FROM SILTATION. INEFFECTIVE PROTECTION DEVICES SHALL BE IMMEDIATELY REPLACED AND THE INLET CLEANED. FLUSHING IS NOT AN ACCEPTABLE METHOD OF CLEANING.
14. SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UP-SLOPE LAND DISTURBANCE TAKES PLACE.
15. ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS COMPLETED.
16. DURING DE-WATERING OPERATIONS, WATER SHALL BE PUMPED INTO AN APPROVED FILTERING DEVICE PRIOR TO DISCHARGE TO RECEIVING OUTLET.
17. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.

CONSTRUCTION SEQUENCE

1. CONTRACTOR SHALL ENSURE THAT ALL NECESSARY PERMITS HAVE BEEN RECEIVED AND THAT THOSE REQUIRED TO BE DISPLAYED ON-SITE ARE AVAILABLE.
2. CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION MEETING AT LEAST 48 HOURS BEFORE THE ACTUAL START OF CONSTRUCTION. CONTACT NCDENR INSPECTOR.
3. CONTRACTOR SHALL CONTACT CAROLINA ONE CALL AND ALL ENTITIES HAVING BURIED UTILITIES AT LEAST 72 HOURS PRIOR TO DIGGING OR AS DIRECTED AT THE PRE-CONSTRUCTION MEETING.
4. CONTRACTOR SHALL INSTALL TEMPORARY CONSTRUCTION ENTRANCES AT EACH POINT OF ACCESS TO STORAGE AND CONSTRUCTION AREAS.
5. INITIAL PHASE SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH PLANS BEFORE STARTING WORK INCLUDING SILT FENCE, TEMPORARY SEDIMENT BASIN, TREE PROTECTION, ETC., CLEARING ONLY AS NECESSARY FOR THE INSTALLATION OF THESE MEASURES.
6. CONTRACTOR SHALL INCLUDE A RAIN GAUGE AND LOG BOOK CONTAINING THE INSPECTION RECORDS FOR THE SITE.
7. CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL MEASURES. ALL APPLICABLE E&S CONTROL MEASURES MUST BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED.
8. STOCKPILE RIP-RAP ON SITE AND INSTALL ALL OTHER EROSION CONTROL MEASURES WHERE THE WORK IS OCCURRING. THE CONTRACTOR SHALL NOT INSTALL EROSION CONTROL MEASURES IN AREAS WHERE THE WORK WILL NOT OCCUR FOR SOME TIME. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY THE ENGINEER OR UPON RECOMMENDATION OF NCDENR INSPECTION PERSONNEL AS CONDITIONS WARRANT.
9. IN AREAS WHERE IT IS NOT FEASIBLE TO INSTALL EROSION CONTROL DEVICES, ALL DISTURBED AREAS MUST BE SEEDED AND MULCHED BY THE CONTRACTOR WITHIN THREE DAYS OF INITIAL DISTURBANCE. TEMPORARY SEEDING SHALL BE REQUIRED ON ALL OTHER AREAS TO BE DISTURBED FOR A PERIOD OF 10 DAYS OR LONGER.
10. STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISHED GRADE.
11. UPON COMPLETION OF THE INSTALLATION AND WITH APPROVAL OF NCDENR, ALL EROSION CONTROL DEVICES SHALL BE REMOVED AND DISPOSED OF IN AN ACCEPTABLE MANNER. EACH SECTION SHALL BE SEEDED AT THE EARLIEST POSSIBLE DATE. COORDINATE WITH THE EROSION CONTROL INSPECTOR PRIOR TO REMOVAL OF EROSION CONTROL MEASURES.
12. CONTRACTOR SHALL NOT CONVERT TO PERMANENT BMP FACILITY UNTIL UPSTREAM AREAS ARE STABILIZED. AS PART OF THE CONVERSION FROM THE TO THE PERMANENT STORMWATER BMP ALL ACCUMULATED SEDIMENT WITHIN THE BASIN SHALL BE REMOVED AND DISPOSED OF IN A SUITABLE MANNER. INSTALL FINAL EROSION CONTROL MEASURES AND PERMANENTLY SEED/SOD EXPOSED AREAS.
13. ONCE GROUND COVER IS FIRMLY ESTABLISHED, ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED WITH THE APPROVAL OF NCDENR INSPECTOR.
14. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE N.C. EROSION & SEDIMENT CONTROL PLANNING AND DESIGN MANUAL NCDOT. U.S. DEPT. OF AGRICULTURE. AND COUNTY STANDARDS.

SOIL SERIES

BnB: BLANEY LOAMY SAND, 2 TO 8 PERCENT SLOPES

24 HOUR CONTACT

KEVIN & JENNIFER LEAVITT
402.541.5857
PROUD TO SERVE, LLC

NOTE

CONTRACTOR IS RESPONSIBLE FOR THE SEQUENCE AND TIMING OF ALL EROSION AND SEDIMENT CONTROL MEASURES. PHASING PLANS ARE ONLY A GENERAL GUIDE TO EROSION AND SEDIMENT CONTROL REQUIREMENTS AS DEVELOPMENT OCCURS.

PREPARED IN THE OFFICE OF:
GASKINS +LECRAW

3475 CORPORATE WAY
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DULUTH, GA 30096
PHONE - 678.546.8100
www.gaskinslecraw.com

P-2646

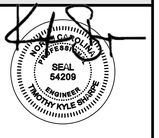
REVISIONS:

REV. #	DATE	DRAWN BY	CHECKED BY
1			
1			
1			

CLIENT
PROUD TO SERVE, LLC
155 FOX HUNT LANE, SOUTHERN PINES, NORTH CAROLINA 28387

PROJECT
SCOOTER'S - #2294
130 BRANDYWOOD CT.
PARCEL PIN: 9584-97-8509.000
CAMERON, HARNETT COUNTY, NORTH CAROLINA

SEAL:



2/25/2025

CALL BEFORE YOU DIG

811
Know what's below.
Call before you dig.

SCALE & NORTH ARROW:

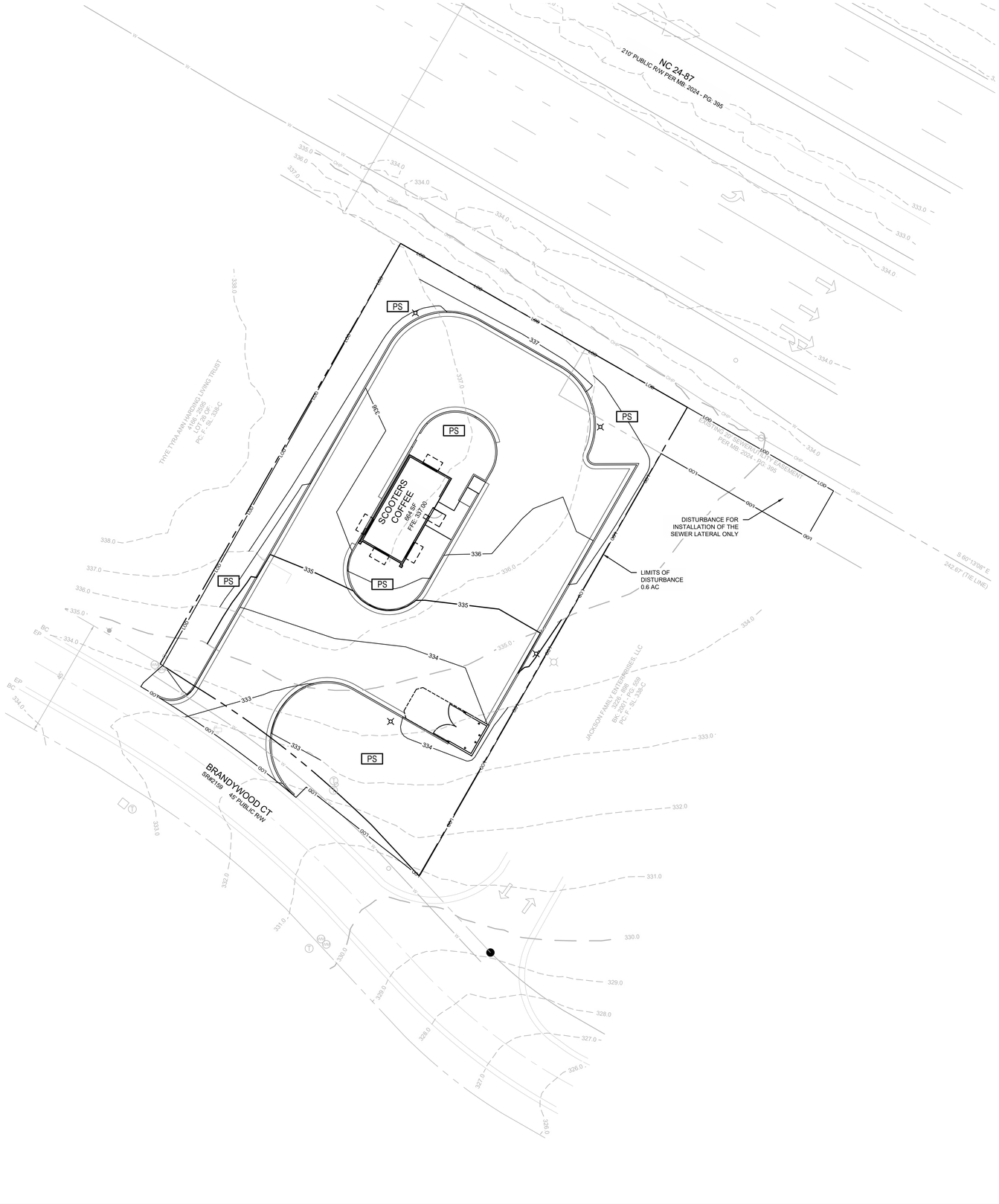
DESIGN INFO:

DRAWN BY:	SOO
DESIGNED BY:	TKS
REVIEWED BY:	TKS
JOB #:	03630032
DATE:	FEBRUARY 25, 2025

ESPC - PHASE 2

C-2.1

Drawing name: C:\Users\ksharpe\Gaskins+LeCraw Dropbox\Shared Folders\Engineering\03630032 - Scooter's - #2294 - Cameron_NC\CADD\CONSTR\03630032 - 03 - ESPC.dwg ESPC - PHASE 2 Feb 25, 2025 11:44am by: ksharpe



EROSION CONTROL LEGEND

SF	SILT FENCE
LOD	LIMIT OF DISTURBANCE
SF	SILT FENCE
CE	CONSTRUCTION ENTRANCE
PS	PERMANENT STABILIZATION

EROSION CONTROL NARATIVE

SCOOTER'S COFFEE, CAMERON, NC

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21. ADDITIONAL EROSION CONTROL MEASURES OR SILT BARRIERS TO BE PLACED AS SHOWN AND/OR DIRECTED BY THE PROJECT ENGINEER AND/OR LOCAL JURISDICTIONAL INSPECTOR.
22. FOR ALL UTILITY CONSTRUCTION ALONG AND/OR ACROSS WATERWAYS, BANK PROTECTION AND STABILIZATION SHALL BE REQUIRED AS PER LOCAL JURISDICTIONAL EROSION CONTROL LAWS.
23. ALL TREE PROTECTION AND EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCING CONSTRUCTION AND SHALL BE MAINTAINED IN PROPER WORKING ORDER UNTIL ALL DISTURBED AREAS ARE STABILIZED AND GROUND COVER IS ESTABLISHED. CONSTRUCTION ENTRANCE PADS SHALL BE INSTALLED BY THE CONTRACTOR AT CONSTRUCTION ACCESS POINTS PRIOR TO LAND DISTURBANCE.
24. ALL EASEMENTS DISTURBED MUST BE DRESSED AND GRASSED TO CONTROL EROSION IN ACCORDANCE WITH EASEMENT PLATS PRIOR TO ACCEPTANCE.
25. CONSTRUCTION LIMITS SHALL NOT BE EXCEEDED WITHOUT THE APPROVAL OF THE LOCAL JURISDICTION AND NCDENR

GENERAL EROSION CONTROL NOTES

1.) ALL BEST MANAGEMENT PRACTICES ARE TO BE IN ACCORDANCE WITH THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, PUBLISHED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION EROSION AND SEDIMENT CONTROL STANDARDS.
2.) BOUNDARY & TOPOGRAPHIC SURVEY BY DZT LAND SURVEYING, PLLC, DATED 01/15/2025. BENCHMARK IS NOTED ON SURVEY.
3.) SOIL TYPES FOR ENTIRE DISTURBED AREA IS BNB PER NRCS WEB SOIL SURVEY
4.) THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL BE INSTALLED PRIOR TO LAND DISTURBING ACTIVITIES.
5.) EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE. ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION.
6.) SEDIMENT STORAGE MAINTENANCE INDICATORS MUST BE INSTALLED IN SEDIMENT STORAGE STRUCTURES, AS REQUIRED, INDICATING THE 1/3 FULL VOLUME.
7.) MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE PROPERTY OWNER.
8.) WASHOUT OF CONCRETE DRUM AT CONSTRUCTION SITE IS PROHIBITED AND NOT ALLOWED IN WASH AREAS.

TOTAL SITE AREA = 0.54 ACRES
TOTAL DISTURBED AREA = 0.6 ACRES
PHASE 1 DISTURBED AREA = 0.5 ACRES

NORTH CAROLINA CONTROL NOTES

1. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE NCDENR EROSION AND SEDIMENT CONTROL HANDBOOK.
2. THE CONTRACTOR SHALL INSTALL AND MAINTAIN THROUGHOUT THE PROJECT CONSTRUCTION ALL EROSION CONTROL MEASURES SHOWN WITHIN THESE PLANS IN ACCORDANCE WITH APPLICABLE NORTH CAROLINA EROSION AND SEDIMENT CONTROL REGULATIONS.
3. CONSTRUCTION WORK SHALL BE IN COMPLIANCE WITH REGULATIONS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORM WATER GENERAL PERMIT.
4. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO CLEARING AND/OR LAND DISTURBANCE.
5. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN AND PERMIT SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
6. THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES TO MINIMIZE EROSION. THE CONTRACTOR SHALL MAINTAIN CLOSE CONTACT WITH THE NCDENR EROSION CONTROL INSPECTOR SO THAT PERIODIC INSPECTIONS CAN BE PERFORMED AT APPROPRIATE STAGES OF CONSTRUCTION.
7. APPROVAL OF THIS PLAN IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, PERMISSION MUST BE OBTAINED FROM THE AFFECTED PROPERTY OWNERS. A REVISED PLAN SHOWING OFF-SITE IMPACTS SHOULD BE SUBMITTED AND APPROVED PRIOR TO BEGINNING OFF-SITE GRADING. CONTACT PROJECT ENGINEER AND PROJECT EROSION CONTROL INSPECTOR TO ENSURE ADDITIONAL EROSION CONTROL MEASURES ARE INSTALLED PRIOR TO OFF-SITE GRADING.
8. PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO OFF-SITE BORROW OR WASTE AREAS, STAGING OR STORAGE AREAS, IF APPLICABLE), THE CONTRACTOR SHALL PREPARE AND SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND TO NCDENR FOR APPROVAL. CONTRACTOR SHALL PAY ALL FEES REQUIRED AND SHALL INSTALL NECESSARY MEASURES AT NO SEPARATE PAYMENT. THE CONTRACTOR SHALL PROVIDE THE OWNER AND THE ENGINEER A COPY OF THE AMENDED PERMIT.
9. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED CONTINUOUSLY, RELOCATED WHEN AND AS NECESSARY, AND SHALL BE CHECKED AFTER EVERY RAINFALL SEEDED AREAS SHALL BE CHECKED REGULARLY AND SHALL BE WATERED, FERTILIZED, RE-SEEDED AND MULCHED AS NECESSARY TO OBTAIN A DENSE STAND OF GRASS.
10. STABILIZATION IS THE BEST FORM OF EROSION CONTROL. ALL DISTURBED AREAS WHICH ARE NOT OTHERWISE STABILIZED SHALL BE TOP SOILED AND SEEDED, TEMPORARILY OR PERMANENTLY IN ACCORDANCE WITH THE NCDENR SEDIMENT CONTROL REGULATIONS. PERMANENT SEEDING AND GRASS ESTABLISHMENT IS REQUIRED PRIOR TO PROJECT COMPLETION AND ACCEPTANCE.
11. WHEN A CRUSHED STONE CONSTRUCTION ENTRANCE HAS BEEN COVERED WITH SOIL OR HAS BEEN PUSHED INTO THE SOIL BY CONSTRUCTION TRAFFIC, IT SHALL BE REPLACED WITH A DEPTH OF STONE EQUAL TO THAT OF THE ORIGINAL APPLICATION.
12. TEMPORARY GRAVEL CONSTRUCTION ENTRANCE SHALL BE REQUIRED AT ALL CONSTRUCTION STAGING AREA ENTRANCES AND ALL CONSTRUCTION ACCESS LOCATIONS INTO NON-PAVED AREA. SIX INCHES OF STONE SHALL BE USED FOR THE TEMPORARY GRAVEL CONSTRUCTION ENTRANCE.
13. ALL DRAINAGE INLETS SHALL BE PROTECTED FROM SILTATION. INEFFECTIVE PROTECTION DEVICES SHALL BE IMMEDIATELY REPLACED AND THE INLET CLEANED. FLUSHING IS NOT AN ACCEPTABLE METHOD OF CLEANING.
14. SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UP-SLOPE LAND DISTURBANCE TAKES PLACE.
15. ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS COMPLETED.
16. DURING DE-WATERING OPERATIONS, WATER SHALL BE PUMPED INTO AN APPROVED FILTERING DEVICE PRIOR TO DISCHARGE TO RECEIVING OUTLET.
17. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.

CONSTRUCTION SEQUENCE

1. CONTRACTOR SHALL ENSURE THAT ALL NECESSARY PERMITS HAVE BEEN RECEIVED AND THAT THOSE REQUIRED TO BE DISPLAYED ON-SITE ARE AVAILABLE.
2. CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION MEETING AT LEAST 48 HOURS BEFORE THE ACTUAL START OF CONSTRUCTION. CONTACT NCDENR INSPECTOR.
3. CONTRACTOR SHALL CONTACT CAROLINA ONE CALL AND ALL ENTITIES HAVING BURIED UTILITIES AT LEAST 72 HOURS PRIOR TO DIGGING OR AS DIRECTED AT THE PRE-CONSTRUCTION MEETING.
4. CONTRACTOR SHALL INSTALL TEMPORARY CONSTRUCTION ENTRANCES AT EACH POINT OF ACCESS TO STORAGE AND CONSTRUCTION AREAS.
5. INITIAL PHASE SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH PLANS BEFORE STARTING WORK INCLUDING SILT FENCE, TEMPORARY SEDIMENT BASIN, TREE PROTECTION, ETC., CLEARING ONLY AS NECESSARY FOR THE INSTALLATION OF THESE MEASURES.
6. CONTRACTOR SHALL INCLUDE A RAIN GAUGE AND LOG BOOK CONTAINING THE INSPECTION RECORDS FOR THE SITE.
7. CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL MEASURES. ALL APPLICABLE E&S CONTROL MEASURES MUST BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED.
8. STOCKPILE RIP-RAP ON SITE AND INSTALL ALL OTHER EROSION CONTROL MEASURES WHERE THE WORK IS OCCURRING. THE CONTRACTOR SHALL NOT INSTALL EROSION CONTROL MEASURES IN AREAS WHERE THE WORK WILL NOT OCCUR FOR SOME TIME. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY THE ENGINEER OR UPON RECOMMENDATION OF NCDENR INSPECTION PERSONNEL AS CONDITIONS WARRANT.
9. IN AREAS WHERE IT IS NOT FEASIBLE TO INSTALL EROSION CONTROL DEVICES, ALL DISTURBED AREAS MUST BE SEEDED AND MULCHED BY THE CONTRACTOR WITHIN THREE DAYS OF INITIAL DISTURBANCE. TEMPORARY SEEDING SHALL BE REQUIRED ON ALL OTHER AREAS TO BE DISTURBED FOR A PERIOD OF 10 DAYS OR LONGER.
10. STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISHED GRADE.
11. UPON COMPLETION OF THE INSTALLATION AND WITH APPROVAL OF NCDENR, ALL EROSION CONTROL DEVICES SHALL BE REMOVED AND DISPOSED OF IN AN ACCEPTABLE MANNER. EACH SECTION SHALL BE SEEDED AT THE EARLIEST POSSIBLE DATE. COORDINATE WITH THE EROSION CONTROL INSPECTOR PRIOR TO REMOVAL OF EROSION CONTROL MEASURES.
12. CONTRACTOR SHALL NOT CONVERT TO PERMANENT BMP FACILITY UNTIL UPSTREAM AREAS ARE STABILIZED. AS PART OF THE CONVERSION FROM THE TO THE PERMANENT STORMWATER BMP ALL ACCUMULATED SEDIMENT WITHIN THE BASIN SHALL BE REMOVED AND DISPOSED OF IN A SUITABLE MANNER. INSTALL FINAL EROSION CONTROL MEASURES AND PERMANENTLY SEED/SOD EXPOSED AREAS.
13. ONCE GROUND COVER IS FIRMLY ESTABLISHED, ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED WITH THE APPROVAL OF NCDENR INSPECTOR.
14. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE N.C. EROSION & SEDIMENT CONTROL PLANNING AND DESIGN MANUAL NCDOT. U.S. DEPT. OF AGRICULTURE. AND COUNTY STANDARDS.

SOIL SERIES

BnB: BLANEY LOAMY SAND, 2 TO 8 PERCENT SLOPES

24 HOUR CONTACT

KEVIN & JENNIFER LEAVITT
402.541.5857
PROUD TO SERVE, LLC

NOTE

CONTRACTOR IS RESPONSIBLE FOR THE SEQUENCE AND TIMING OF ALL EROSION AND SEDIMENT CONTROL MEASURES. PHASING PLANS ARE ONLY A GENERAL GUIDE TO EROSION AND SEDIMENT CONTROL REQUIREMENTS AS DEVELOPMENT OCCURS.

PREPARED IN THE OFFICE OF:
GASKINS +LECRAW

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SUITE A
DULUTH, GA 30096
PHONE - 678.546.8100
www.gaskinslecraw.com

P-2646

REVISIONS:

REV.#	DATE	DRAWN BY:	CHECKED BY:
1			

CLIENT
PROUD TO SERVE, LLC
155 FOX HUNT LANE, SOUTHERN PINES, NORTH CAROLINA 28387

PROJECT
SCOOTER'S - #2294
130 BRANDYWOOD CT.
PARCEL PIN: 9584-97-8509.000
CAMERON, HARNETT COUNTY, NORTH CAROLINA

SEAL:

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 54209 TIMOTHY KYLE SHARPE

2/25/2025

CALL BEFORE YOU DIG
811
Know what's below. Call before you dig.

SCALE & NORTH ARROW:
NORTH ARROW
0' 10' 20' 40'
SCALE: 1" = 20'

DESIGN INFO:

DRAWN BY:	SOO
DESIGNED BY:	TKS
REVIEWED BY:	TKS
JOB #:	03630032
DATE:	FEBRUARY 25, 2025

ESPC - PHASE 3

C-2.2

Drawing name: C:\Users\ksharpe\Gaskins+LeCraw Dropbox\Shared Folder\Engineering\03630032 - Scooter's - #2294 - Cameron_NC\CADD\CONSTR\03630032 - 03 - ESPC.dwg ESPC - PHASE 3 Feb 25, 2025 11:44am by: ksharpe

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

SOIL AMENDMENTS
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.

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 (LATE WINTER/EARLY SPRING)

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

SOIL AMENDMENTS
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.

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 (SUMMER)

SEEDING MIXTURE

SPECIES	RATE (LB/ACRE)
RYE (GRAIN)	120

SEEDING DATES
MOUNTAINS — AUG. 15 - DEC. 15
COASTAL PLAIN AND PIEDMONT — AUG. 15 - DEC. 30

SOIL AMENDMENTS
FOLLOW SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 1,000 LB/ACRE 10-10-10 FERTILIZER.

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 EXTENT 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.

TEMPORARY SEEDING (FALL)

SCHEDULE OF MAJOR ACTIVITIES

BEGIN CONSTRUCTION	(MONTHS AFTER BEGINNING CONSTRUCTION)			
DESCRIPTION	1	2	3	4
INSTALL & MAINTAIN SEDIMENT CONTROL STRUCTURES				
CLEARING, AND GRUBBING				
GRADING				
TEMPORARY MULCHING/SEEDING AS NECESSARY TO STABLIIZE				
UTILITIES				
BUILDING RENOVATION				
PAVING				
FINAL STABILIZATION / PERMANENT VEGETATION				
REMOVE SEDIMENT CONTROL STRUCTURES				

ACTIVITIES SCHEDULE

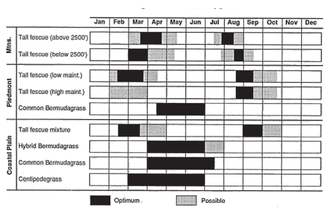


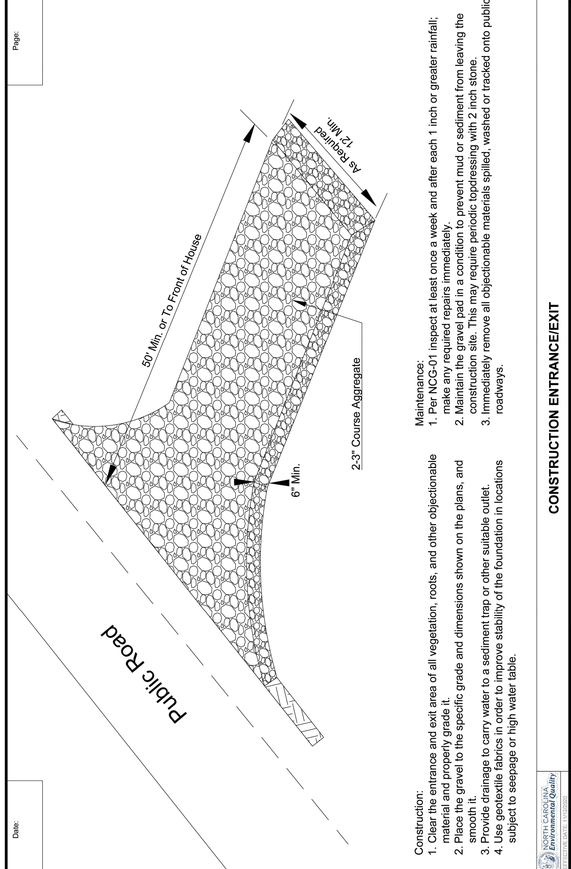
Figure 6.11b Calendar for permanent seeding recommendations by region.

Table 6.11a
Tolerance, Maintenance, and Propagation Characteristics of Erosion Control Plants

	Region			Drainage			Planting		Tolerance		Maintenance
	Temporary Perennial Warm season Cool season	Mountains Piedmont Coastal Plain		Dry Well Moderately well Somewhat poor Poor			Seed Sprigsod	Days to germination*	Shade Drought Flooding Traffic		High Low
Grasses											
Bahiagrass	●		●			●	●	14-28		●	●
Bermudagrass (common)	●		●			●	●	21		●	●
Bermudagrass (hybrid)	●		●			●	●	—		●	●
Centipedegrass	●		●			●	●	28		●	●
Fescue, tall	●	●		●	●		●	5-14	●	●	●
Fescue, red	●	●		●	●		●	7-28	●	●	●
German millet†	●		●	●	●		●	4-14			●
Kentucky bluegrass	●	●		●	●		●	10-28		●	●
Redtop	●	●		●	●	●	●	5-10	●		●
Rye grain	●	●		●	●		●	4-7			●
Sudangrass	●		●	●	●		●	4-10			●
Legumes											
Crown vetch	●	●		●	●		●	14-21		●	●
Kobe lespedeza	●		●	●	●	●	●	5-14		●	●
Korean lespedeza	●		●	●	●	●	●	5-14		●	●
Sericea lespedeza	●	●		●	●	●	●	7-28		●	●

*Number of days required for majority of seeds to germinate under favorable conditions.
†Also "Foxtail millet."

PERMANENT SEEDING

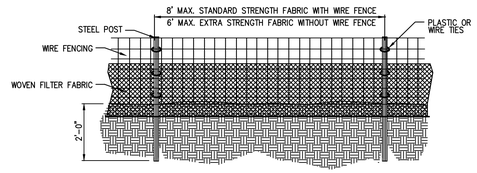


Maintenance:
1. Per NCG-01 inspect at least once a week and after each 1 inch or greater rainfall; make any required repairs immediately.
2. Maintain the gravel pad in a condition to prevent mud or sediment from leaving the construction site. This may require periodic topdressing with 2 inch stone.
3. Immediately remove all objectionable materials spilled, washed or tracked onto public roadways.

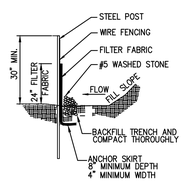
Construction:
1. Clear the entrance and exit area of all vegetation, roots, and other objectionable material and properly grade it.
2. Place the gravel to the specific grade and dimensions shown on the plans, and smooth it.
3. Provide drainage to carry water to a sediment trap or other suitable outlet.
4. Use geotextile fabrics in order to improve stability of the foundation in locations subject to seepage or high water table.

CONSTRUCTION ENTRANCE/EXIT

CONSTRUCTION ENTRANCE



FRONT VIEW



SECTION VIEW

GENERAL NOTES:

1. FILTER FABRIC FENCE SHALL BE A MINIMUM OF 32" IN WIDTH AND SHALL HAVE A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
2. WOVEN FILTER FABRIC BE USED WHERE SILT FENCE IS TO REMAIN FOR A PERIOD OF MORE THAN 30 DAYS.
3. STEEL POSTS SHALL BE 5'-0" IN HEIGHT AND BE OF THE SELF-FASTENER ANGLE STEEL TYPE.
4. WIRE FENCING SHALL BE AT LEAST #10 GAGE WITH A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
5. TURN SILT FENCE UP SLOPE AT ENDS.
6. WIRE MESH SHALL BE MIN. 13 GAGE WITH MAXIMUM 12" OPENINGS.
7. WIRE AND WASHED STONE IS REQUIRED TO BE SHOWN ON PLANS AT THE TOE OF SLOPES GREATER THAN 10 FEET VERTICAL (2:1 SLOPE)
8. ORANGE SAFETY FENCE IS REQUIRED AT BACK OF SILT FENCE WHEN GRADING IS ADJACENT TO SWM BUFFERS, STREAMS OR WETLANDS THE COLOR ORANGE IS RESERVED FOR VISUAL IDENTIFICATION OF ENVIRONMENTALLY SENSITIVE AREAS.
9. DRAINAGE AREA CAN NOT BE GREATER THAN 1/4 ACRE PER 100 FT OF FENCE.
10. SLOPE LENGTHS CAN NOT EXCEED CRITERIA SHOWN IN TABLE 6.62A NORTH CAROLINA EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.
11. DO NOT INSTALL SEDIMENT FENCE ACROSS STREAMS, DITCHES, WATERWAYS OR OTHER AREAS OF CONCENTRATED FLOW.

MAINTENANCE NOTES:

1. FILTER BARRIERS SHALL BE INSPECTED BY THE FINANCIALLY RESPONSIBLE PARTY OR HIS AGENT IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS NEEDED SHALL BE MADE IMMEDIATELY.
2. SHOULD THE FABRIC DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL IS NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
3. SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN DEPOSITS REACH HALF THE HEIGHT OF THE BARRIER. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS REMOVED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

*CONTRACTOR TO REFER TO NCDENR STANDARDS AND SPECIFICATIONS FOR ADDITIONAL DETAILS, IF NEEDED

SILT FENCE WITH WIRE BACKING

PREPARED IN THE OFFICE OF:
GASKINS + LECRAW

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DULUTH, GA 30096
PHONE - 678.546.8100
www.gaskinslecraw.com

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REVISIONS:

REV.#	DATE	DRAWN BY:	CHECKED BY:

CLIENT
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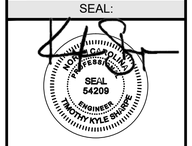
155 FOX HUNT LANE, SOUTHERN PINES, NORTH CAROLINA 28387

PROJECT
SCOOTER'S - #2294
130 BRANDYWOOD CT.
PARCEL PIN: 9584-97-8509.000
CAMERON, HARNETT COUNTY, NORTH CAROLINA

SEAL:



2/25/2025

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Know what's below.
Call before you dig.

SCALE & NORTH ARROW:

NORTH ARROW
DETAILS ARE **NOT** DRAWN TO SCALE

DESIGN INFO:

DRAWN BY:	SOO
DESIGNED BY:	TKS
REVIEWED BY:	TKS
JOB #:	03630032
DATE:	FEBRUARY 25, 2025

EROSION CONTROL DETAILS - 1

C-2.5

Drawing name: C:\Users\kstharpe\Gaskins+LeCraw Dropbox\Shared Folder\Engineering\03630032 - Scooter's - #2294 - Cameron, NC\CADD\CONSTR\03630032 - 05 - ESPC DETAILS.dwg EROSION CONTROL DETAILS - 1 Feb 25, 2025 11:44am by: kstharpe

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

SECTION E: GROUND STABILIZATION

Required Ground Stabilization Timeframes

Site Area Description	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d) Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization	Permanent Stabilization
• Temporary grass seed covered with straw or other mulches and tackifiers • Hydroseeding • Rolled erosion control products with or without temporary grass seed • Appropriately applied straw or other mulch • Plastic sheeting	• Permanent grass seed covered with straw or other mulches and tackifiers • Geotextile fabrics such as permanent soil reinforcement matting • Hydroseeding • Shrubs or other permanent plantings covered with mulch • Uniform and evenly distributed ground cover sufficient to restrain erosion • Structural methods such as concrete, asphalt or retaining walls • Rolled erosion control products with grass seed

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

1. Select flocculants that are appropriate for the soils being exposed during construction, selecting from the *NC DWR List of Approved PAMS/Flocculants*.
2. Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
3. Apply flocculants at the concentrations specified in the *NC DWR List of Approved PAMS/Flocculants* and in accordance with the manufacturer's instructions.
4. Provide ponding area for containment of treated Stormwater before discharging offsite.
5. Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

EQUIPMENT AND VEHICLE MAINTENANCE

1. Maintain vehicles and equipment to prevent discharge of fluids.
2. Provide drip pans under any stored equipment.
3. Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
4. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
5. Remove leaking vehicles and construction equipment from service until the problem has been corrected.
6. Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

1. Never bury or burn waste. Place litter and debris in approved waste containers.
2. Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.
3. Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
4. Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
5. Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
6. Anchor all lightweight items in waste containers during times of high winds.
7. Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
8. Dispose waste off-site at an approved disposal facility.
9. On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

1. Do not dump paint and other liquid waste into storm drains, streams or wetlands.
2. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
3. Contain liquid wastes in a controlled area.
4. Containment must be labeled, sized and placed appropriately for the needs of site.
5. Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

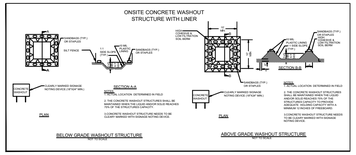
PORTABLE TOILETS

1. Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
2. Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
3. Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

EARTHEN STOCKPILE MANAGEMENT

1. Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
2. Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
3. Provide stable stone access point when feasible.
4. Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY.
3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED WITH SIGNAGE NOTING DEVICE.

BELOW GRADE WASHOUT STRUCTURE
NOT TO SCALE

NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED WITH SIGNAGE NOTING DEVICE.

ABOVE GRADE WASHOUT STRUCTURE
NOT TO SCALE

CONCRETE WASHOUTS

1. Do not discharge concrete or cement slurry from the site.
2. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
3. Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
4. Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
5. Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
6. Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
7. Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
8. Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
9. Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
10. At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

1. Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
2. Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
3. Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
4. Do not stockpile these materials onsite.

HAZARDOUS AND TOXIC WASTE

1. Create designated hazardous waste collection areas on-site.
2. Place hazardous waste containers under cover or in secondary containment.
3. Do not store hazardous chemicals, drums or bagged materials directly on the ground.

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 04/01/19

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those un-attended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event $\geq$ 1.0 inch in 24 hours	1. Identification of the measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event $\geq$ 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event $\geq$ 1.0 inch in 24 hours	If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event $\geq$ 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit.
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be kept on site and available for inspection at all times during normal business hours.

Item to Document	Documentation Requirements
(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan.	Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC plan.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC measures.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation to be Kept on Site

In addition to the E&SC plan documents above, the following items shall be kept on the site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

(a) This General Permit as well as the Certificate of Coverage, after it is received.

(b) Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

3. Documentation to be Retained for Three Years

All data used to complete the e-NOI and all inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences:

(a) Visible sediment deposition in a stream or wetland.

(b) Oil spills if:
- They are 25 gallons or more,
- They are less than 25 gallons but cannot be cleaned up within 24 hours,
- They cause sheen on surface waters (regardless of volume), or
- They are within 100 feet of surface waters (regardless of volume).

(c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.

(d) Anticipated bypasses and unanticipated bypasses.

(e) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800) 858-0368.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days***, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. • If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	• ***Within 24 hours***, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	• ***A report at least ten days before the date of the bypass, if possible.*** The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days,*** a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment[40 CFR 122.41(l)(7)]	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days***, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6). • Division staff may waive the requirement for a written report on a case-by-case basis.

PART II, SECTION G, ITEM (4)
DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

(a) The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&SC plan authority has approved these items,
(b) The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit,
(c) Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems,
(d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above,
(e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
(f) Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

NORTH CAROLINA
Environmental Quality

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/19

GROUND STABILIZATION

PREPARED IN THE OFFICE OF:

GASKINS
+LECRAW

3475 CORPORATE WAY
SUITE A
DULUTH, GA 30096
PHONE - 678.546.8100
www.gaskinslecraw.com

P-2646

REVISIONS:

REV. #	DATE	DRAWN BY	CHECKED BY

CLIENT
PROUD TO SERVE, LLC
155 FOX HUNT LANE, SOUTHERN PINES, NORTH CAROLINA 28387

PROJECT
SCOOTER'S - #2294
130 BRANDYWOOD CT.
PARCEL PIN: 9584-97-8509.000
CAMERON, HARNETT COUNTY, NORTH CAROLINA

SEAL:
SEAL 54209
TIMOTHY KYLE SHARPE
2/25/2025

CALL BEFORE YOU DIG
811
Know what's below.
Call before you dig.

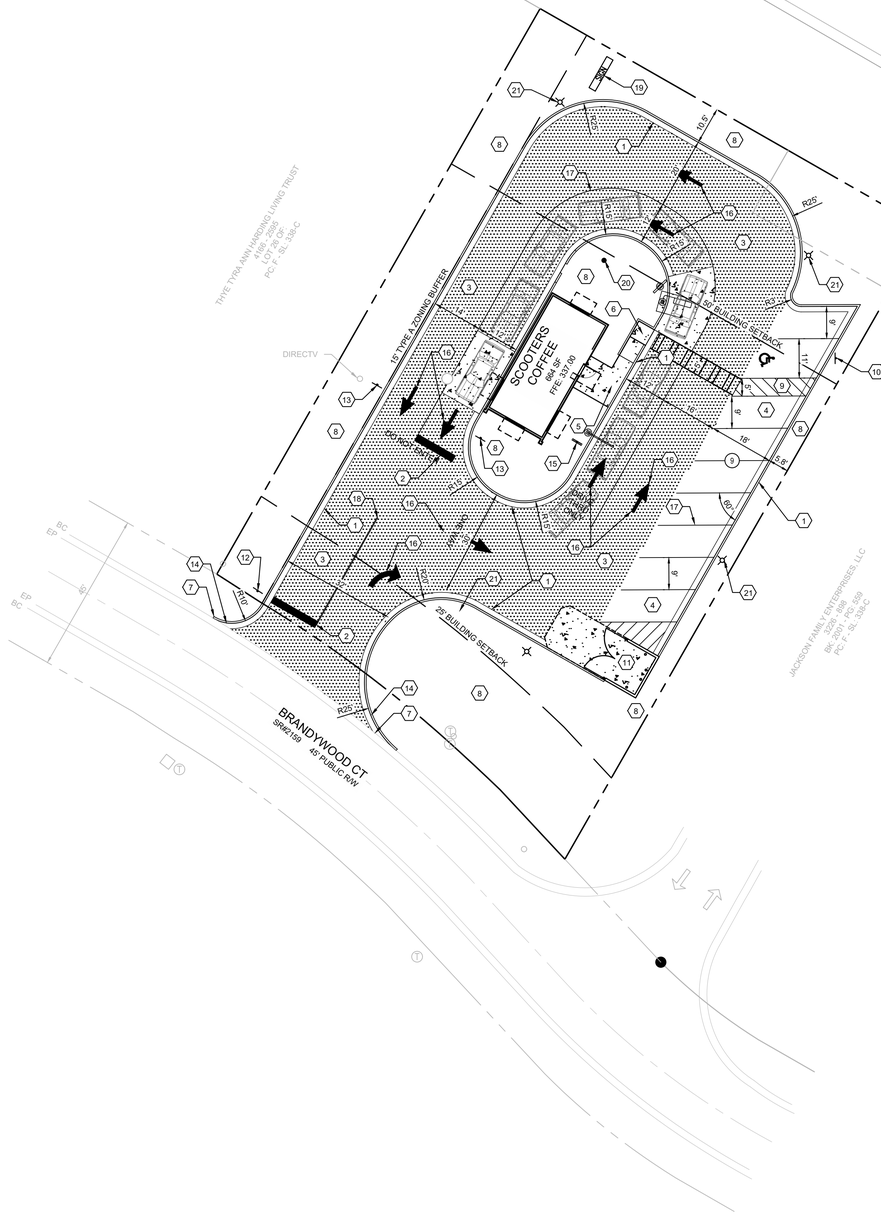
SCALE & NORTH ARROW:
N
NORTH ARROW
DETAILS ARE
NOT
DRAWN TO SCALE

DESIGN INFO:

DRAWN BY:	SOO
DESIGNED BY:	TKS
REVIEWED BY:	TKS
JOB #:	03630032
DATE:	FEBRUARY 25, 2025

EROSION CONTROL DETAILS - 2

C-2.6



GENERAL SITE NOTES

1) ALL DIMENSIONS ARE TO THE FACE OF CURB UNLESS SPECIFIED OTHERWISE.

2) ALL TREES SHALL HAVE PROPER PROTECTION DURING CONSTRUCTION UNLESS APPROVED PLANS INDICATE OTHERWISE.

3) BOUNDARY & TOPOGRAPHIC SURVEY BY DZT LAND SURVEYING, PLLC, DATED 01/15/2025. BENCHMARK IS NOTED ON SURVEY.

4) FLOOD PLAIN IS NOT PRESENT ON THIS SITE AS SHOWN ON THE FEMA FIRM MAP NUMBER 3710958400J, DATED 10/03/2006.

5) 1 HANDICAP SPACE IS REQUIRED TO BE VAN ACCESSIBLE WITH A MINIMUM 96" WIDE ACCESS AREA.

6) ACCESSIBLE PARKING AREAS, INCLUDING AISLES, SHALL SLOPE NO MORE THAN 2% IN ANY DIRECTION.

7) THE OWNER IS RESPONSIBLE FOR OBTAINING ANY NECESSARY AGREEMENTS FROM ADJACENT PROPERTY OWNERS IN ORDER TO PERFORM THE REQUIRED OFFSITE WORK, INCLUDING, STORM DRAINAGE, CURB AND GUTTER AND PAVEMENT TIE-INS AND GRADING.

8) REFERENCE ARCH PLANS FOR DIRECTIONAL SIGNAGE, SITE SIGNAGE, BUILDING DIMENSIONS, ETC.

9) ALL NEW PAVEMENT SHALL MEET OR EXCEED GEOTECHNICAL SPECIFICATION. SEE REPORT PREPARED BY SOLID GROUND ENGINEERING NC, PLLC, DATED 12/24/2024.

SITE SUMMARY

SITE AREA		
	SITE AREA:	0.54 ACRES (23,469 S.F.)
	IMPERVIOUS AREA:	14,356 S.F. (61%)
	PERVIOUS AREA:	9,113 S.F. (39%)
ZONING CLASSIFICATION		
	JURISDICTION:	HARNETT COUNTY
	ZONING:	COMM
	ADJACENT ZONING:	RA-30 & COMM
BUILDING SETBACKS		
	FRONT:	50'
	SIDE:	20' (ZONING BUFFER)
	REAR:	25'
BUILDING SUMMARY		
	BUILDING AREA:	664 S.F.
	BUILDING COVERAGE:	2.8%
PARKING SUMMARY		
	PARKING REQ.:	1 PER 4 SEATS + 1 PER 2 EMPLOYEES
		2 SPACES (ASSUMES 4 EMPLOYEES)
	PARKING PROV.:	6 SPACES
	STANDARD STALL DIMENSIONS:	9' x 18'
	MIN. 2-WAY DRIVE WIDTH:	24'

KEY NOTES

1	24" CURB & GUTTER, SEE SHEET C-7.0 FOR DETAIL
2	24" WHITE STOP BAR, SEE SHEET C-7.0 FOR DETAIL
3	HEAVY DUTY PAVEMENT, SEE SHEET C-7.1 FOR PAVEMENT SPECIFICATIONS
4	STANDARD DUTY PAVEMENT, SEE SHEET C-7.1 FOR PAVEMENT SPECIFICATIONS
5	CONCRETE SIDEWALK, SEE SHEET C-7.0 FOR DETAIL
6	STANDARD ADA RAMP WITH DETECTABLE WARNING, SEE SHEET C-7.0 FOR DETAIL
7	CONTRACTOR TO TIE INTO AND MATCH EXISTING CURB & GUTTER
8	LANDSCAPE AREA, SEE SHEET L-1.0 FOR LANDSCAPE PLANTING DESIGN
9	ADA PARKING AREA, SEE SHEET C-7.0 FOR DETAIL(S)
10	ADA PARKING SIGN, SEE SHEET C-7.0 FOR DETAIL
11	DUMPSTER ENCLOSURE, REFER TO ARCHITECTURAL PLANS FOR DETAILS
12	STOP SIGN (R1-1), SEE SHEET C-7.0 FOR MOUNTING DETAIL
13	DO NOT ENTER SIGN (R5-1), SEE SHEET C-7.0 FOR MOUNTING DETAIL
14	TAPER CURB FROM 6" TO 0" OVER 5', SEE SHEET C-7.0 FOR DETAIL
15	PROPOSED DIRECTIONAL SIGNEAGE
16	TYPICAL PAVEMENT MARKINGS, SEE SHEET C-7.0 FOR DETAILS
17	4" WIDE SINGLE SOLID WHITE LINE (SSWL)
18	4" WIDE DOUBLE SOLID YELLOW LINE (DSYL)
19	PROPOSED MONUMENT/SIGN
20	PROPOSED FLAG POLE, SEE ARCH PLANS FOR DETAILS, FLAG POLE SHALL NOT EXCEED 35' IN HEIGHT
21	PROPOSED LIGHT POLE LOCATIONS, SEE PHOTOMETRIC PLAN FOR EXACT LIGHT POLE LOCATIONS

IMPERVIOUS CALCULATIONS

	PERVIOUS (SF)	IMPERVIOUS (SF)
EXISTING CONDITION:	21,187 (90%)	2,282 (10%)
PROPOSED CONDITION:	9,113 (39%)	14,356 (61%)

PAVEMENT LEGEND

*CONTRACTOR TO SUBMIT JOINT PLAN TO GEOTECH FOR REVIEW/APPROVAL PRIOR TO PAVING

CONCRETE PAVEMENT
(SEE GEOTECH REPORT BY SOLID GROUND ENGINEERING NC, PLLC, DATED 12/24/2024)

HEAVY DUTY PAVEMENT
(SEE GEOTECH REPORT BY SOLID GROUND ENGINEERING NC, PLLC, DATED 12/24/2024)

PREPARED IN THE OFFICE OF:

GASKINS +LECRAW

3475 CORPORATE WAY
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REVISIONS:

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PROUD TO SERVE, LLC

155 FOX HUNT LANE, SOUTHERN PINES, NORTH CAROLINA 28387

PROJECT

SCOOTER'S - #2294

130 BRANDYWOOD CT.
PARCEL PIN: 9584-97-8509.000
CAMERON, HARNETT COUNTY, NORTH CAROLINA

SEAL:

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 54209 TIMOTHY KYLE SHARPE

2/25/2025

CALL BEFORE YOU DIG

811 Know what's below. Call before you dig.

SCALE & NORTH ARROW:

N

NORTH ARROW

0' 10' 20' 40'

SCALE: 1" = 20'

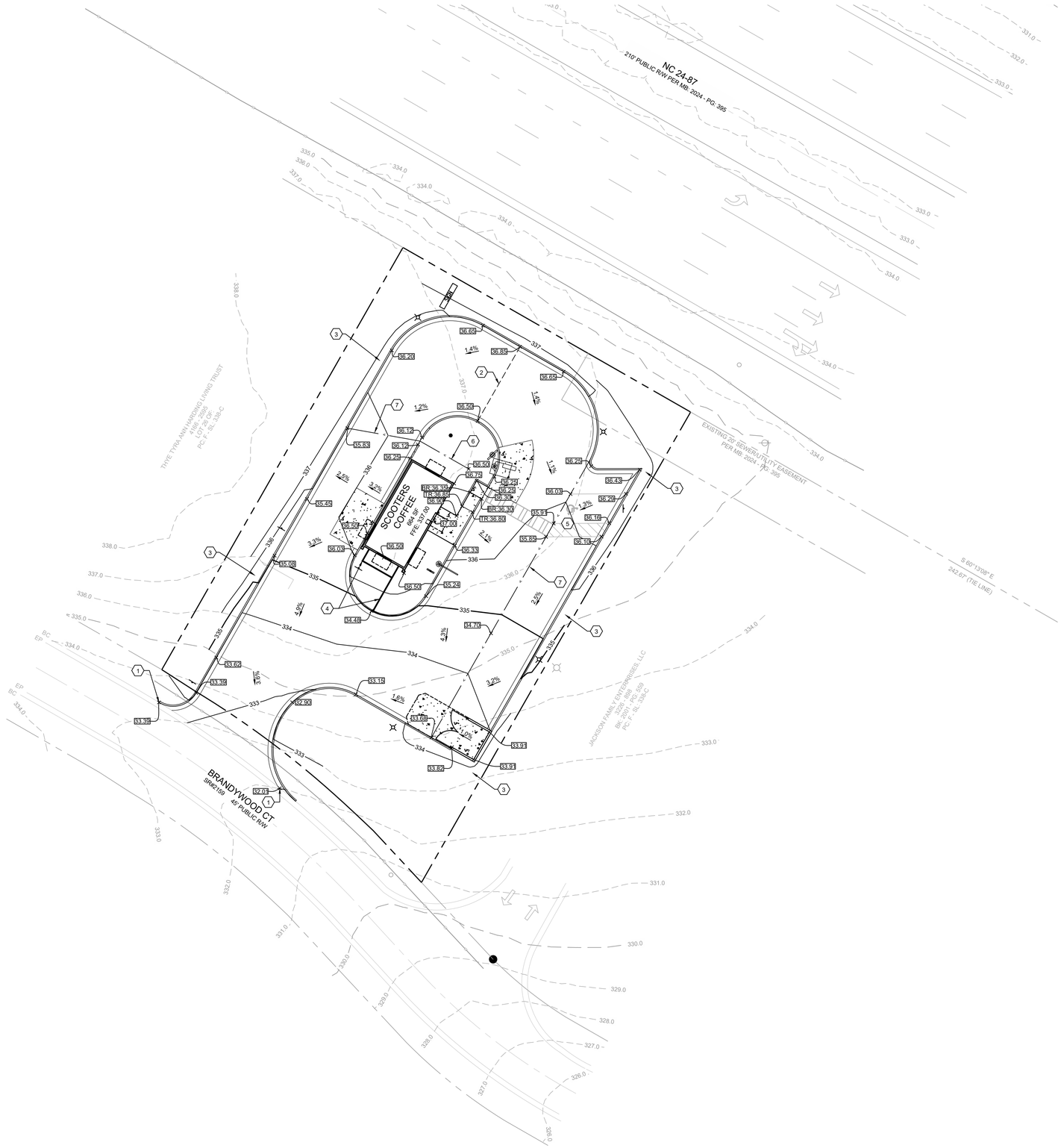
DESIGN INFO:

DRAWN BY:	SOO
DESIGNED BY:	TKS
REVIEWED BY:	TKS
JOB #:	03630032
DATE:	FEBRUARY 25, 2025

SITE PLAN

C-3.0

Drawing name: C:\Users\ksharpe\Gaskins+LeCraw Dropbox\Shared Folders\Engineering\03630032 - Scooter's - #2294 - Cameron_NC\CADD\CONSTR\03630032 - 06 - SITE.dwg SITE PLAN Feb 25, 2025 11:45am by: ksharpe



GENERAL GRADING NOTES

1) ALL CRITICAL SPOT GRADES ALONG CURB ARE BOTTOM OF CURB ELEVATIONS UNLESS OTHERWISE SPECIFIED.

2) NO SLOPES ARE TO BE STEEPER THAN 2:1.

3) ALL LAND DISTURBANCE TO BE STABILIZED WITH VEGETATION UPON COMPLETION OF DEMOLITION.

4) BOUNDARY & TOPOGRAPHIC INFORMATION FROM SURVEY BY DZT LAND SURVEYING, PLLC, DATED 01/15/2025.

5) FLOOD PLAIN IS NOT PRESENT ON THIS SITE AS SHOWN ON THE FEMA FIRM MAP NUMBER 3710958400J, DATED 10/03/2006.

6) EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE ACCOMPLISHED PRIOR TO ANY OTHER CONSTRUCTION ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.

7) OWNER IS RESPONSIBLE FOR MAINTENANCE OF ALL STORM SEWER ON PRIVATE PROPERTY.

8) THE OWNER IS RESPONSIBLE FOR OBTAINING ANY NECESSARY AGREEMENTS FROM ADJACENT PROPERTY OWNERS IN ORDER TO PERFORM THE REQUIRED OFFSITE WORK, INCLUDING, STORM DRAINAGE, CURB AND GUTTER AND PAVEMENT TIE-INS AND GRADING.

9) VERTICAL DEPTH OF ALL DRY AND PRESSURIZED UTILITIES IS UNKNOWN. CONTRACTOR TO NOTIFY OWNER AND ENGINEER IMMEDIATELY IF ANY CONFLICTS ARE FOUND.

10) SIDEWALKS ADJACENT TO BUILDING AND ALONG ADA ROUTES TO HAVE MAXIMUM CROSS SLOPE OF 2%.

KEY NOTES

1	CONTRACTOR TO TIE INTO AND MATCH EXISTING GRADE
2	RIDGE LINE (TYP.)
3	3:1 SLOPE
4	4" HDPE ROOF LEADERS - CONTRACTOR TO EXTEND AS SHOWN TO DAYLIGHT IN FACE OF CURB
5	ADA PARKING AREA, MAXIMUM SLOPE OF 2% IN ANY DIRECTION
6	GRASS SWALE AT MIN 2% TO DRAIN AREA AT BACK OF BUILDING TO CURB OPENING
7	FLOW LINE (TYP.)

SPOT ELEVATION LEGEND

BR: BOTTOM OF RAMP
BW: BOTTOM OF WALL
LP: LOW POINT
TR: TOP OF RAMP
TW: TOP OF WALL
HP: HIGH POINT
*ALL CRITICAL SPOT GRADES ALONG CURB ARE BOTTOM OF CURB ELEVATIONS UNLESS OTHERWISE SPECIFIED.

PREPARED IN THE OFFICE OF:
GASKINS +LECRAW

3475 CORPORATE WAY
SUITE A
DULUTH, GA 30096
PHONE - 678.546.8100
www.gaskinslecraw.com

P-2646

REVISIONS:

REV. #	DATE	DRAWN BY:	CHECKED BY:
1	1	1	1

CLIENT
PROUD TO SERVE, LLC
155 FOX HUNT LANE, SOUTHERN PINES, NORTH CAROLINA 28387

PROJECT
SCOOTER'S - #2294
130 BRANDYWOOD CT.
PARCEL PIN: 9584-97-8509.000
CAMERON, HARNETT COUNTY, NORTH CAROLINA

SEAL:

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
SEAL 54209
ENGINEER
TIMOTHY KYLE SHARPE

2/25/2025

CALL BEFORE YOU DIG

811
Know what's below.
Call before you dig.

SCALE & NORTH ARROW:

N
NORTH ARROW
0' 10' 20' 40'
SCALE: 1" = 20'

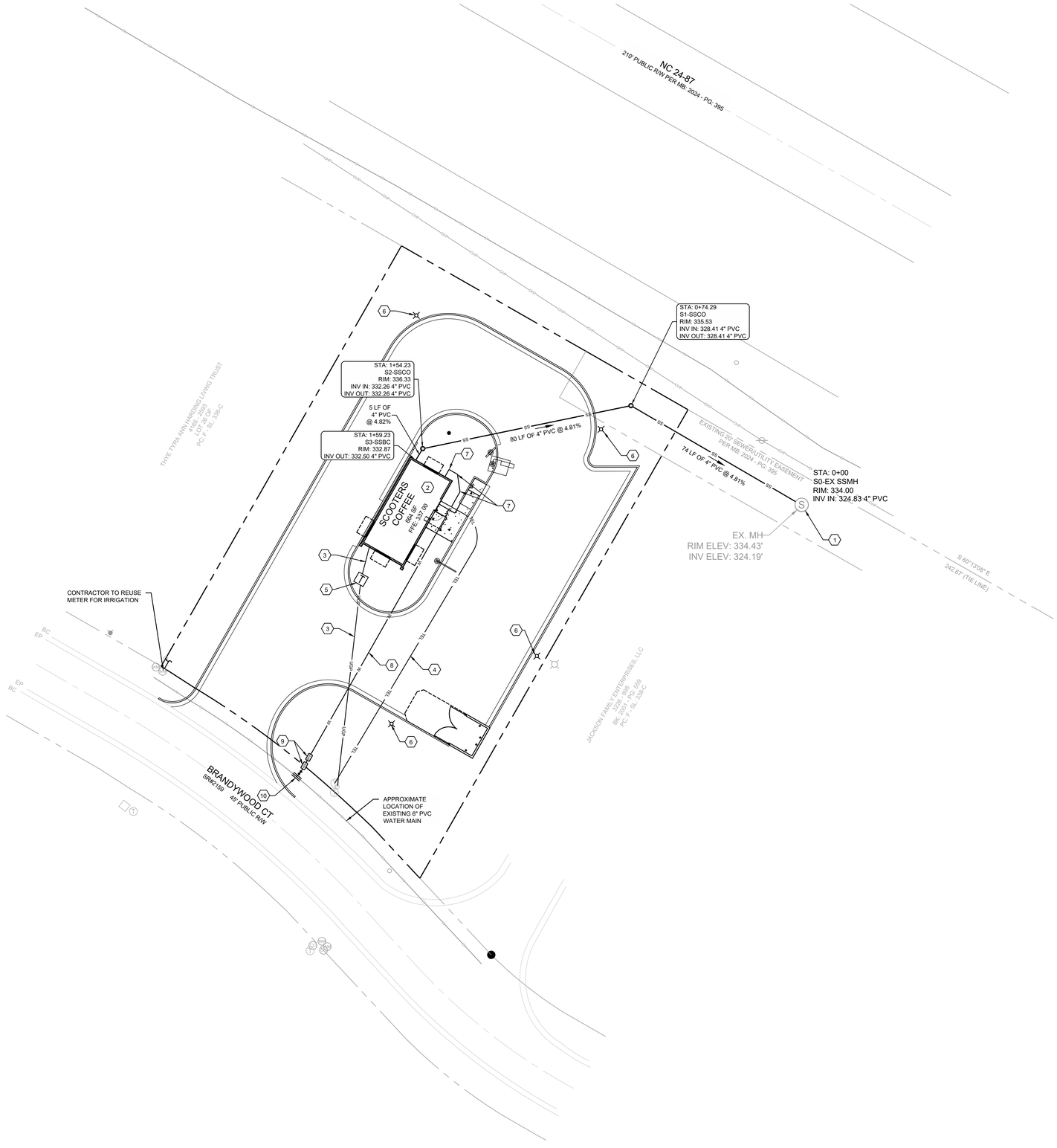
DESIGN INFO:

DRAWN BY:	SOO
DESIGNED BY:	TKS
REVIEWED BY:	TKS
JOB #:	03630032
DATE:	FEBRUARY 25, 2025

GRADING PLAN

C-4.0

Drawing name: C:\Users\ksharpe\Gaskins+LeCraw Dropbox\Shared Folders\Engineering\03630032 - Scooter's - #2294 - Cameron_NC\CADD\CONSTR\03630032 - 07 - GRADING.dwg GRADING PLAN Feb 25, 2025 11:45am by: ksharpe



GENERAL UTILITY NOTES

1.) CONTRACTOR TO NOTIFY OWNER/DEVELOPER AND ENGINEER IMMEDIATELY IF FIELD CONDITIONS DIFFER FROM DESIGN ASSUMPTIONS.

2.) LOCATION OF UNDERGROUND UTILITIES SHOWN IS BASED ON A SURVEY BY DZT LAND SURVEYING, PLLC, DATED 01/15/2025. APPROPRIATE UTILITY COMPANIES SHOULD BE CONTACTED FOR VERIFICATION OF LOCATIONS PRIOR TO ANY CONSTRUCTION ACTIVITY.

3.) MAINTAIN 10' HORIZONTAL SEPARATION BETWEEN WATER AND SEWER LINES.

4.) REFER TO ARCH/MEP PLANS FOR ON SITE UTILITY CONDUITS FOR SITE LIGHTING, ETC. AND UTILITY ENTRY AND EXIT LOCATIONS

5) VERTICAL DEPTH OF ALL DRY AND PRESSURIZED UTILITIES IS UNKNOWN. CONTRACTOR TO NOTIFY OWNER AND ENGINEER IMMEDIATELY IF ANY CONFLICTS ARE FOUND.

KEY NOTES

1	LOCATION OF EXISTING MANHOLE FOR PROPOSED SANITARY SEWER CONNECTION
2	REFER TO ARCH PLANS FOR ALL LOCATIONS AND INTERNAL CONNECTIONS
3	(3) 3-1/2" CONDUIT FOR UNDERGROUND POWER SERVICE, CONTRACTOR TO COORDINATE WITH UTILITY PROVIDER FOR EXACT LOCATION AND CONTINUATION.
4	4" CONDUIT FOR UNDERGROUND TELEPHONE SERVICE, CONTRACTOR TO COORDINATE WITH UTILITY PROVIDER FOR EXACT LOCATION AND CONTINUATION
5	PROPOSED TRANSFORMER PAD PER UTILITY PROVIDER STANDARDS AND SPECIFICATIONS
6	PROPOSED SITE LIGHTING, REFER TO PHOTOMETRIC PLAN FOR ADDITIONAL INFORMATION
7	HORIZONTAL PIPE BEND
8	1.25" PVC DOMESTIC WATER LINE FROM METER TO BUILDING
9	1" DOMESTIC WATER METER AND RPZ BACKFLOW PREVENTER PER UTILITY PROVIDER STANDARDS AND SPECIFICATIONS
10	6" x 1" TAPPING SADDLE AND CORPORATION STOP

STRUCTURE TYPES

SSCO: SANITARY SEWER CLEANOUT
SSBC: SANITARY SEWER BUILDING CONNECTION
SSMH: SANITARY SEWER MANHOLE

SANITARY STRUCTURES

NAME:	TYPE: 334.43	STATION:	RIM:	INV IN: (PIPE)	INV OUT: (PIPE)
S0-EX SSMH	EXISTING MANHOLE	0+00.00	334.43	324.83 (S0-S1)	
S1-SSCO	CLEANOUT	0+74.29	335.53	328.41 (S1-S2)	328.41 (S0-S1)
S2-SSCO	CLEANOUT	1+54.23	336.33	332.26 (S2-S3)	332.26 (S1-S2)
S3-SSBC	BUILDING CONNECTION	1+59.23	336.53		332.50 (S2-S3)

SANITARY PIPES

NAME:	SIZE:	LENGTH:	SLOPE:	INV UP:	INV DOWN:	MATERIAL:
S0-S1	4"	74.29	4.81%	324.83 (S0-EX SSMH)	328.41 (S1-SSCO)	PVC
S1-S2	4"	79.94	4.81%	328.41 (S1-SSCO)	332.26 (S2-SSCO)	PVC
S2-S3	4"	5.00	4.82%	332.26 (S2-SSCO)	332.50 (S3-SSBC)	PVC

CAUTION

THE UTILITES SHOWN ARE SHOWN FOR THE CONTRACTORS CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS OF UNDERGROUND UTILITIES, AND IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY THE LOCATIONS OF ALL UTILITIES SHOWN AS WELL AS THOSE NOT SHOWN WITHIN THE CONSTRUCTION LIMITS. ALL DAMAGE MADE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

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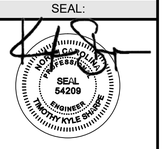

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DESIGNED BY:	TKS
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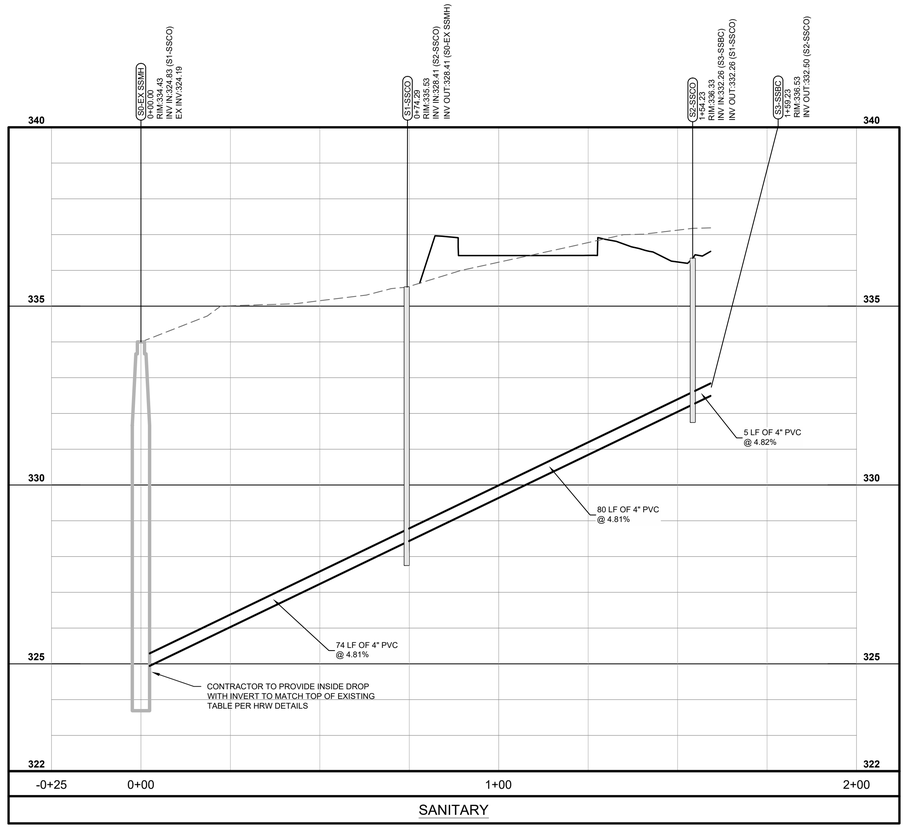
UTILITY PLAN

C-5.0

Drawing name: C:\Users\tksharpe\Gaskins+LeCraw Dropbox\Shared Folders\Engineering\03630032 - Scooter's - #2294 - Cameron_NC\CADD\CONSTR\03630032 - 08 - UTILITY.dwg UTILITY PLAN Feb 25, 2025 11:45am by: ksharpe



STRUCTURE TYPES

SSBC: BUILDING CONNECTION
SSMH: SANITARY SEWER MANHOLE
SSCO: CLEANOUT

PROFILE LEGEND

EXISTING GRADE:

PROPOSED GRADE:

VERTICAL SCALE IN FEET
SCALE: 1" = 2'
0
1'
2'
4'

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 54209 TIMOTHY KYLE SHARPE

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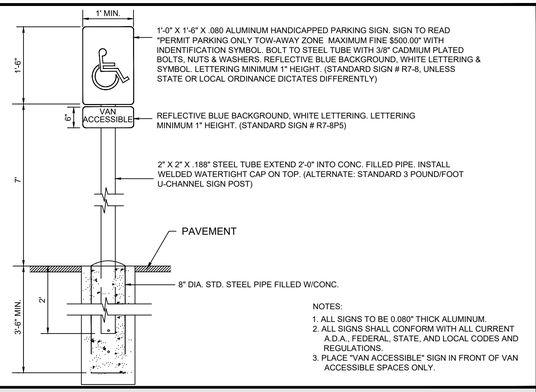
SANITARY PROFILES

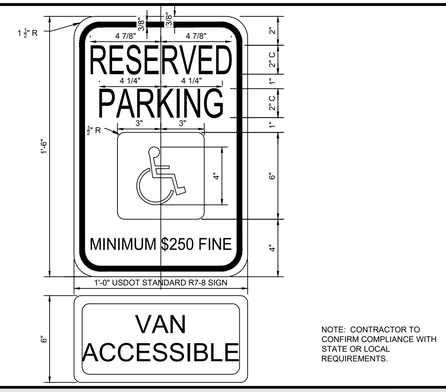
C-6.0

Drawing name: C:\Users\ksharpe\Gaskins+LeCraw Dropbox\Shared Folder\Engineering\03630032 - Scooter's - #2294 - Cameron_NC\CADD\CONSTR\03630032 - 09 - PROFILES.dwg SANITARY PROFILES Feb 25, 2025 11:45am by: ksharpe



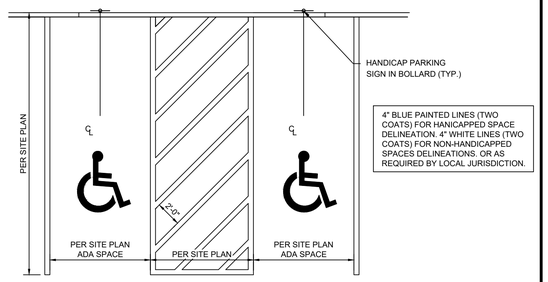
NOTES:
1. ALL SIGNS TO BE 0.080" THICK ALUMINUM.
2. ALL SIGNS SHALL CONFORM WITH ALL CURRENT A.D.A., FEDERAL, STATE, AND LOCAL CODES AND REGULATIONS.
3. PLACE "VAN ACCESSIBLE" SIGN IN FRONT OF VAN ACCESSIBLE SPACES ONLY.

ADA SIGN MOUNTING DETAIL

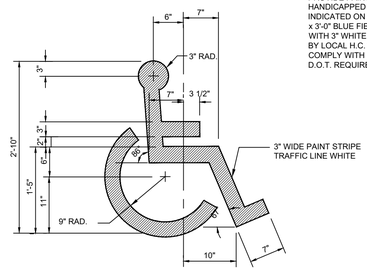


NOTE: CONTRACTOR TO CONFIRM COMPLIANCE WITH STATE OR LOCAL REQUIREMENTS.

ADA SIGN DETAIL

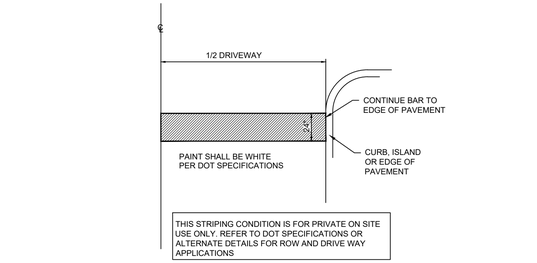


ADA PARKING DETAIL

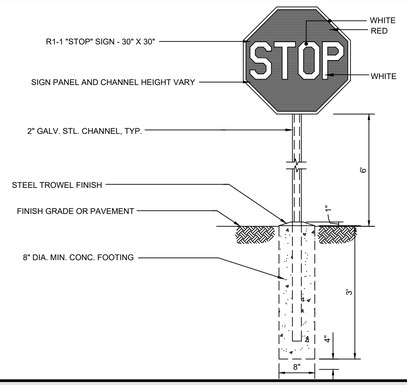


PROVIDE PAINTED SYMBOL IN ALL HANDICAPPED PARKING STALLS INDICATED ON SITE PLAN. PAINT 3'-0" x 3'-0" BLUE FIELD BACKGROUND WITH 3" WHITE BORDER OR AS REQ'D BY LOCAL H.C. CODE PAINT SHALL COMPLY WITH LOCAL OR STATE D.O.T. REQUIREMENTS.

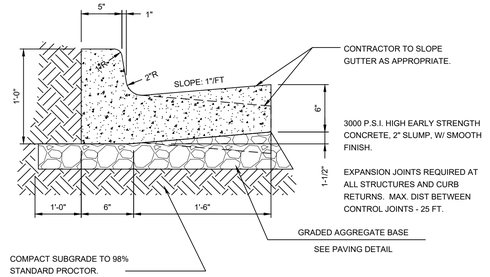
ADA PARKING SYMBOL DETAIL



"V" NOTCH / TAPER CURB DETAIL



TRAFFIC SIGN MOUNTING DETAIL

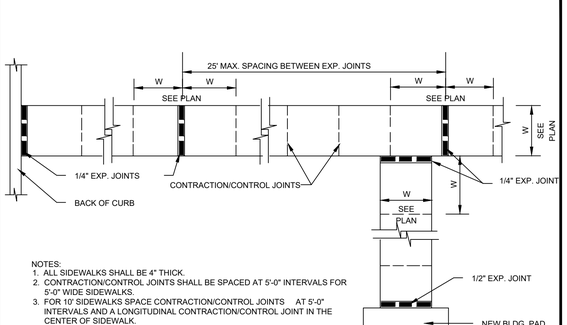


CURB & GUTTER DETAIL

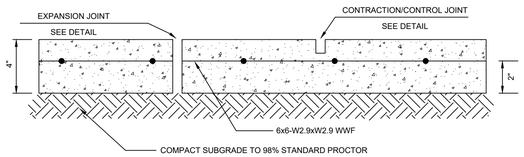
THIS STRIPING CONDITION IS FOR PRIVATE ON SITE USE ONLY. REFER TO DOT SPECIFICATIONS OR ALTERNATE DETAILS FOR ROW AND DRIVE WAY APPLICATIONS

USE THIS DETAIL FOR INTERNAL PARKING AREA CIRCULATION CONTROL. STOP BARS ADJACENT TO THE RIGHT OF WAY OR WITHIN A RIGHT OF WAY SHALL MEET THE LOCAL JURISDICTIONAL CRITERIA.

STOP BAR DETAIL

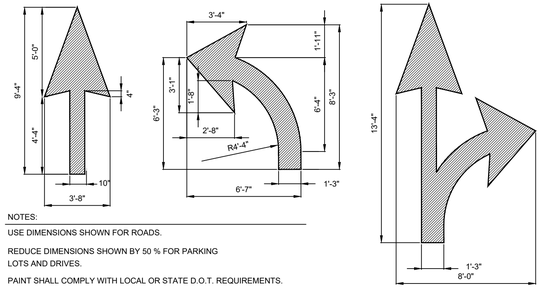


NOTES:
1. ALL SIDEWALKS SHALL BE 4" THICK.
2. CONTRACTION/CONTROL JOINTS SHALL BE SPACED AT 5'-0" INTERVALS FOR 5'-0" WIDE SIDEWALKS.
3. FOR 10' SIDEWALKS SPACE CONTRACTION/CONTROL JOINTS AT 5'-0" INTERVALS AND A LONGITUDINAL CONTRACTION/CONTROL JOINT IN THE CENTER OF SIDEWALK.
4. CONTRACTION/CONTROL JOINTS SHALL BE 1" DEEP AND EDGED WITH 1/8" RADIUS.
5. WHEN SIDEWALKS ABUT ROADWAY WHERE THERE IS NO CURB, THICKEN WALK TO 6" IN 3'-0"
6. 1/2" EXP. MATERIAL REQUIRED WHERE CONCRETE SIDEWALK ABUTS CONCRETE STRUCTURE.
7. A LAYER OF 15# FELT IS REQUIRED BETWEEN WALK AND ADJACENT PARALLELING CONCRETE CURB.



EXPANSION JOINTS REQUIRED AT ALL STRUCTURES, MAX. SPACING TO BE 25'.
CONTRACTION/CONTROL JOINTS TO BE SPACED EVERY 5'. 3000 P.S.I. CONCRETE, 2" SLUMP, WITH BROOM FINISH.

SIDEWALK DETAIL



NOTES:
USE DIMENSIONS SHOWN FOR ROADS.

REDUCE DIMENSIONS SHOWN BY 50 % FOR PARKING LOTS AND DRIVES.

PAINT SHALL COMPLY WITH LOCAL OR STATE D.O.T. REQUIREMENTS.

PAVEMENT MARKING DETAIL

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SEAL:

2/25/2025

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SCALE & NORTH ARROW:

NORTH ARROW
DETAILS ARE NOT DRAWN TO SCALE

DESIGN INFO:

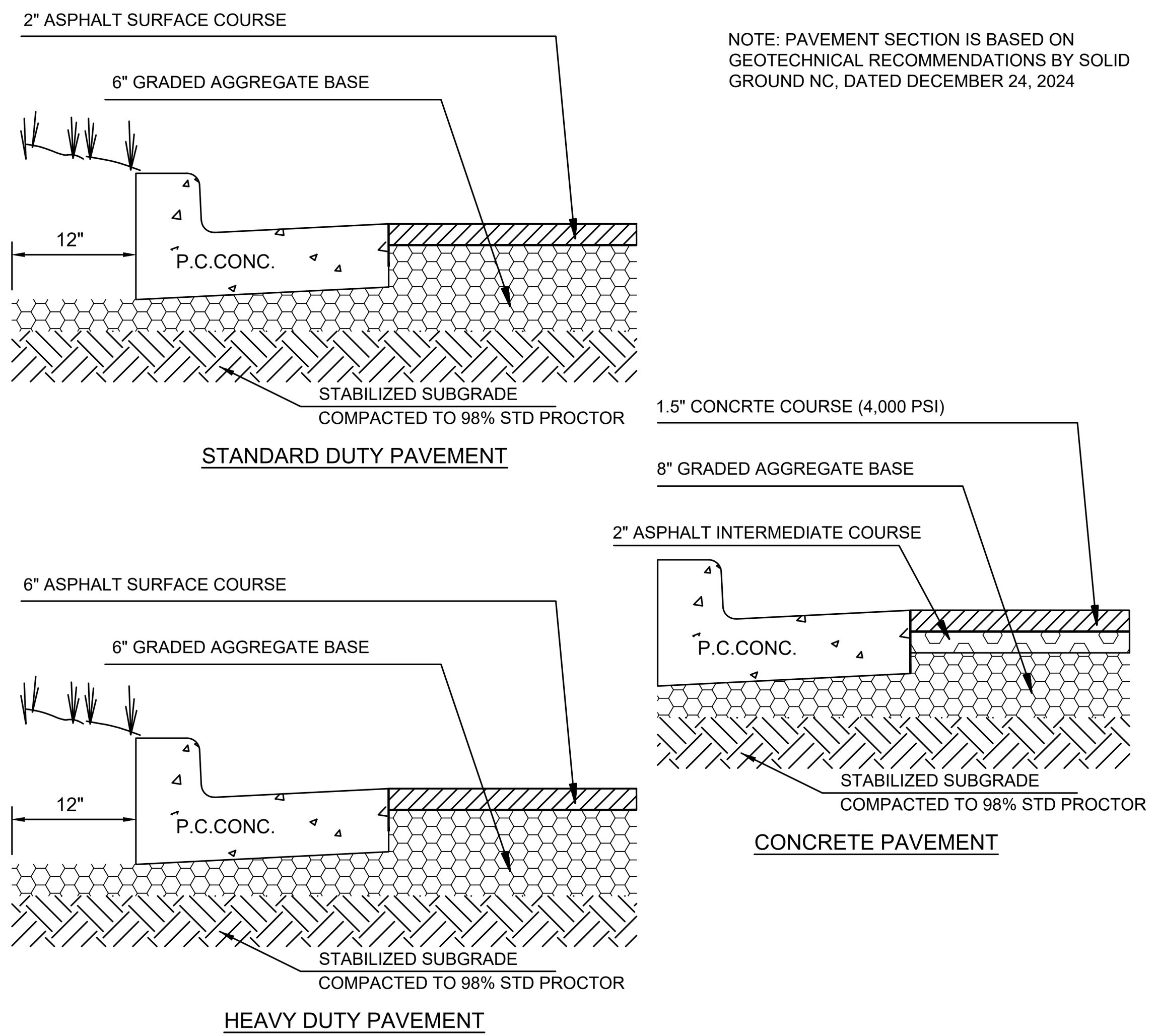
DRAWN BY:	SOO
DESIGNED BY:	TKS
REVIEWED BY:	TKS
JOB #:	03630032
DATE:	FEBRUARY 25, 2025

CONSTRUCTION DETAILS - 1

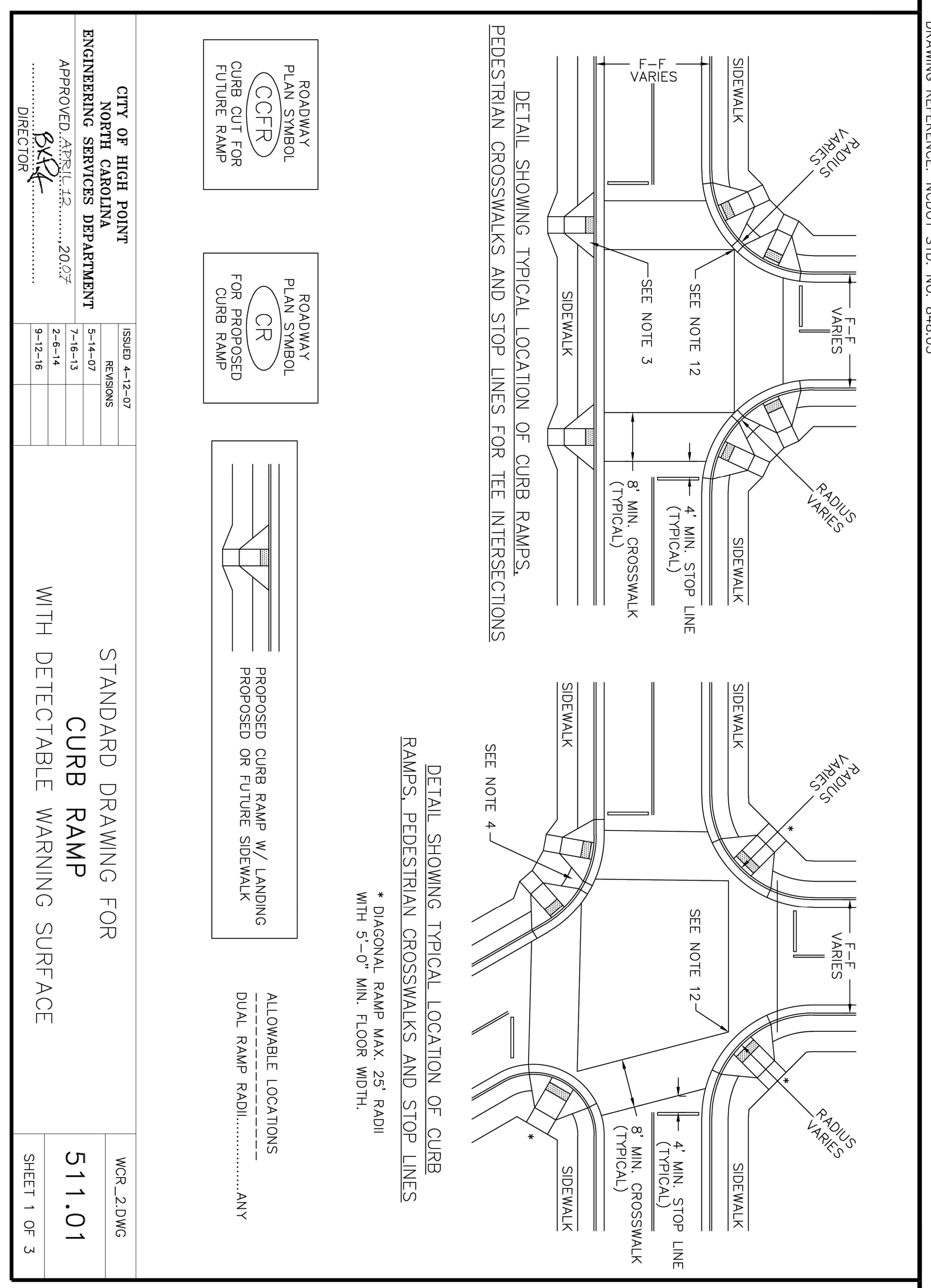
C-7.0

Drawing name: C:\Users\kshapir\Gaskins+LeCraw Dropbox\Shared Folders\Engineering\03630032 - Scooter's - #2294 - Cameron_NC\CADD\CONSTR\03630032 - 10 - DETAILS.dwg CONSTRUCTION DETAILS - 1 Feb 25, 2025 11:45am by: kshapir

Drawing name: C:\Users\ksharpe\Gaskins+LeCraw Dropbox\Shared Folders\Engineering\03630032 - Scooter's - #2294 - Cameron_NC\CADD\CONSTR\03630032 - 10 - DETAILS.dwg CONSTRUCTION DETAILS - 2 Feb 25, 2025 11:45am by: ksharpe



DETAIL



DETAIL

DETAIL

DETAIL

NOTES:

1. CONSTRUCT THE WALKING SURFACE WITH SLIP RESISTANCE, AND A 70% CONTRASTING COLOR TO THE SIDEWALK. UNLESS SPECIFIED, COLOR OF TILE SHALL BE STANDARD BRICK RED (FEDERAL COLOR NO. 22144).
2. CROSSWALK WIDTHS AND CONFIGURATION VARY, BUT MUST CONFORM TO TRAFFIC DESIGN STANDARDS.
3. NORTH CAROLINA GENERAL STATUTE 136–44.14 REQUIRES THAT ALL STREET CURBS BEING CONSTRUCTED OR RECONSTRUCTED FOR MAINTENANCE PROCEDURES, TRAFFIC OPERATIONS, REPAIRS, CORRECTION OF UTILITIES OR ALTERED FOR ANY REASON AFTER SEPTEMBER 1, 1973 SHALL PROVIDE CURB RAMPS FOR THE PHYSICALLY DISABLED AT ALL INTERSECTIONS WHERE BOTH CURB AND GUTTER AND SIDEWALKS ARE PROVIDED AND AT OTHER POINTS OF PEDESTRIAN FLOW.

   IN ADDITION, SECTION 228 OF THE 1973 FEDERAL AID HIGHWAY SAFETY ACT REQUIRES PROVISION OF CURB RAMPS ON ANY CURB CONSTRUCTION AFTER JULY 1, 1976 WHETHER A SIDEWALK IS PROPOSED INITIALLY OR IS PLANNED FOR A FUTURE DATE.

   THE AMERICANS WITH DISABILITIES ACT (ADA) OF 1990 EXTENDS TO INDIVIDUALS WITH DISABILITIES. COMPREHENSIVE CIVIL RIGHTS PROTECTIONS SIMILAR TO THOSE PROVIDED TO PERSONS ON THE BASIS OF RACE, SEX, NATIONAL ORIGIN, AND RELIGION UNDER THE CIVIL RIGHTS ACT OF 1964. THESE CURB RAMPS HAVE BEEN DESIGNATED TO COMPLY WITH THE CURRENT ADA STANDARDS.
4. PROVIDE CURB RAMPS AT LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. LOCATE CURB RAMPS AS DIRECTED BY THE ENGINEER WHERE EXISTING LIGHT POLES, FIRE HYDRANTS, DROP INLETS, ETC. AFFECT PLACEMENT. WHERE TWO RAMPS ARE INSTALLED, PLACE NOT LESS THAN 2 FEET OF FULL HEIGHT CURB BETWEEN THE RAMPS. PLACE DUAL RAMPS AS NEAR PERPENDICULAR TO THE TRAVEL LANE BEING CROSSED AS POSSIBLE.
5. CONCRETE CURB RAMPS WILL BE MEASURED AND PAID FOR IN UNITS OF "EACH."
6. PAY ITEMS FOR ALL DEPRESSED CURBS AT CURB RAMPS SHALL BE PER NCDOT STANDARD DRAWINGS 848.05 AND 848.06.
7. SUCH PRICES AND PAYMENTS ARE CONSIDERED FULL COMPENSATION FOR ALL MATERIALS, LABOR, EQUIPMENT, TOOLS, AND INCIDENTALS NECESSARY TO SATISFACTORILY COMPLETE THE WORK.
8. DO NOT EXCEED 0.08% (12:1) SLOPE ON THE CURB RAMP IN RELATIONSHIP TO THE GRADE OF THE STREET.
9. CONSTRUCT CURB RAMPS A MINIMUM OF 48" (4') WIDE.
10. USE CLASS "A" CONCRETE WITH A SIDEWALK FINISH IN ORDER TO OBTAIN A ROUGH NON–SKID TYPE SURFACE. CONCRETE SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 825 AND SECTION 848 OF THE CURRENT EDITION OF THE NCDOT STANDARD SPECIFICATIONS FOR ROADS & STRUCTURES.
11. PLACE A 1/2" EXPANSION JOINT WHERE THE CONCRETE CURB RAMP JOINS THE CURB AS SHOWN IN NCDOT STD. DWG. 848.01.
12. PLACE THE INSIDE PEDESTRIAN CROSSWALK LINES NO CLOSER IN THE INTERSECTION BY BISECTING THE INTERSECTION RADII, WITH ALLOWANCE OF A 4 x 4' CLEAR ZONE IN THE VEHICULAR TRAVELWAY, WHEN ONE RAMP IS INSTALLED. (SEE NOTE 17)
13. COORDINATE THE CURB CUT AND THE PEDESTRIAN CROSSWALK LINES SO THE FLOOR OF THE CURB RAMP WILL FALL WITHIN THE PEDESTRIAN CROSSWALK LINES. PLACE DIAGONAL RAMPS WITH FLARED SIDES SO 24" OF FULL HEIGHT CURB FALLS WITHIN THE CROSSWALK MARKINGS ON EACH SIDE OF THE FLARES.
14. CONSTRUCT THE PEDESTRIAN CROSSWALK A MINIMUM OF 8 FEET. A CROSSWALK WIDTH OF 10 FEET OR GREATER IS DESIRABLE.
15. USE STOP LINES, NORMALLY PERPENDICULAR TO THE LANE LINES, WHERE IT IS IMPORTANT TO INDICATE THE POINT BEHIND WHICH VEHICLES ARE REQUIRED TO STOP IN COMPLIANCE WITH A TRAFFIC SIGNAL, STOP SIGN, OR OTHER LEGAL REQUIREMENT. AN UNUSUAL APPROACH SKEW MAY REQUIRE THE PLACEMENT OF THE STOP LINE TO BE PARALLEL TO THE INTERSECTING ROADWAY.
16. TERMINATE PARKING A MINIMUM OF 20 FEET BACK OF PEDESTRIAN CROSSWALK.
17. PLACE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION, AND THE NORTH CAROLINA SUPPLEMENT TO THE MUTCD.
18. **PRIOR TO THE POURING OF THE CONCRETE, THE FOUNDATION, FORMWORK, ETC. MUST BE APPROVED BY THE ENGINEERING SERVICES DEPT. AND/OR THE PUBLIC SERVICES DEPT.**
19. RETROFITTING:
    VITRIFIED POLYMER COMPOSITE (VPC)
    A. CURB RAMP AND EXISTING SIDEWALK WITH GRASS STRIP– SEE NCDOT STD. NO. 848.06 (SHEET 1 OF 5). USE VPC TILE PER SHEET 1.
    B. CURB RAMPS AND EXISTING SIDEWALK ADJACENT TO CURB– SEE NCDOT STD. NO. 848.06 (SHEET 2 OF 5). USE VPC TILE PER SHEET 1.
    C. RETROFITTING DETECTABLE WARNING DOMES ONTO EXISTING CURB RAMP– SEE NCDOT STD. NO. 848.06 (SHEET 3 OF 5). USE VPC TILE PER SHEET 1.

DRAWING REFERENCE: NCDOT STD. NO. 848.05

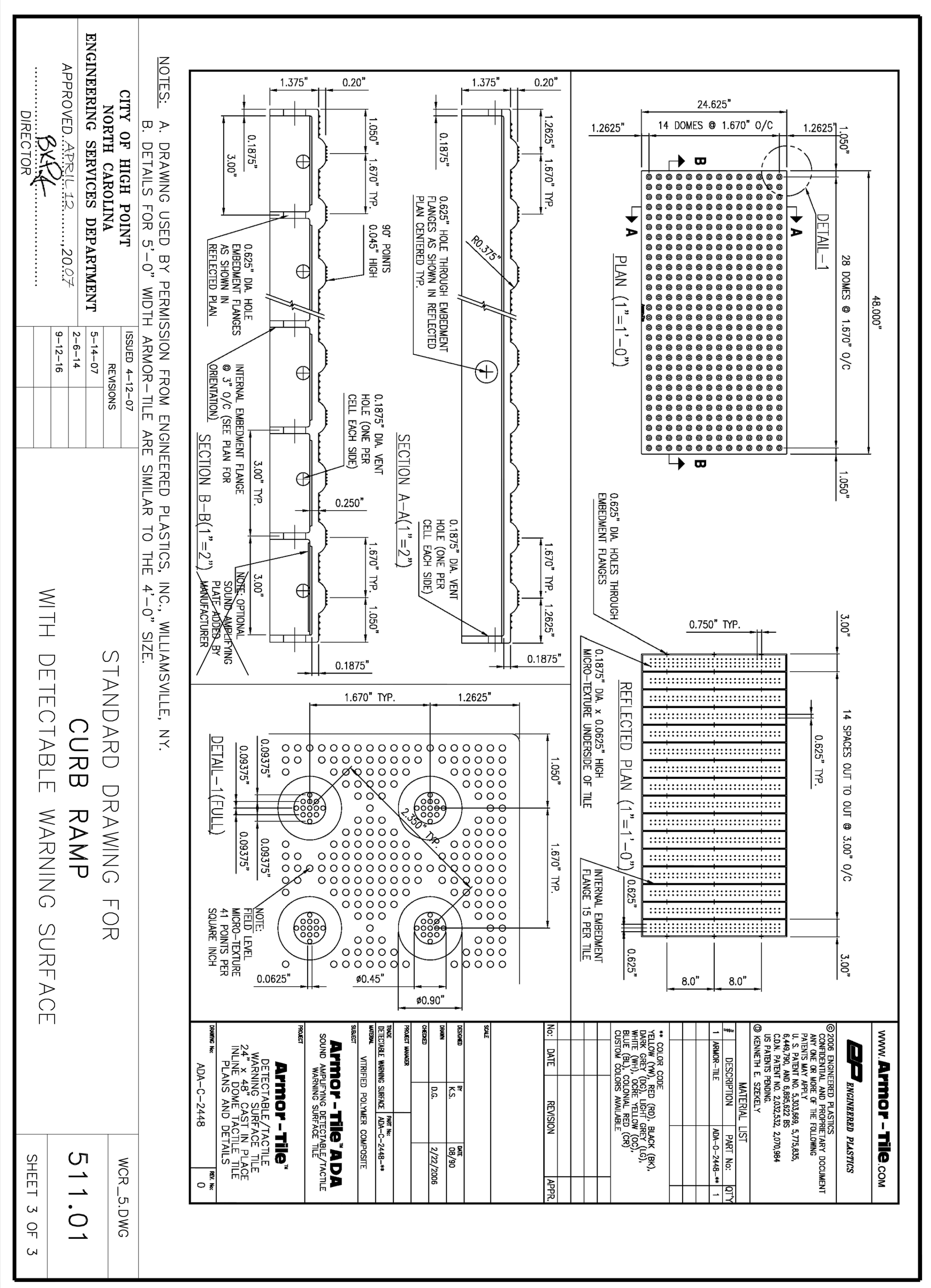
CITY OF HIGH POINT
NORTH CAROLINA
ENGINEERING SERVICES DEPARTMENT
APPROVED APRIL 12, 2007
DIRECTOR

ISSUED 4-12-07
REVISIONS
5-14-07
7-16-13
2-6-14
9-12-16

STANDARD DRAWING FOR
CURB RAMP
WITH DETECTABLE WARNING SURFACE

WCR_4.DWG
511.01
SHEET 2 OF 3

DETAIL



DETAIL

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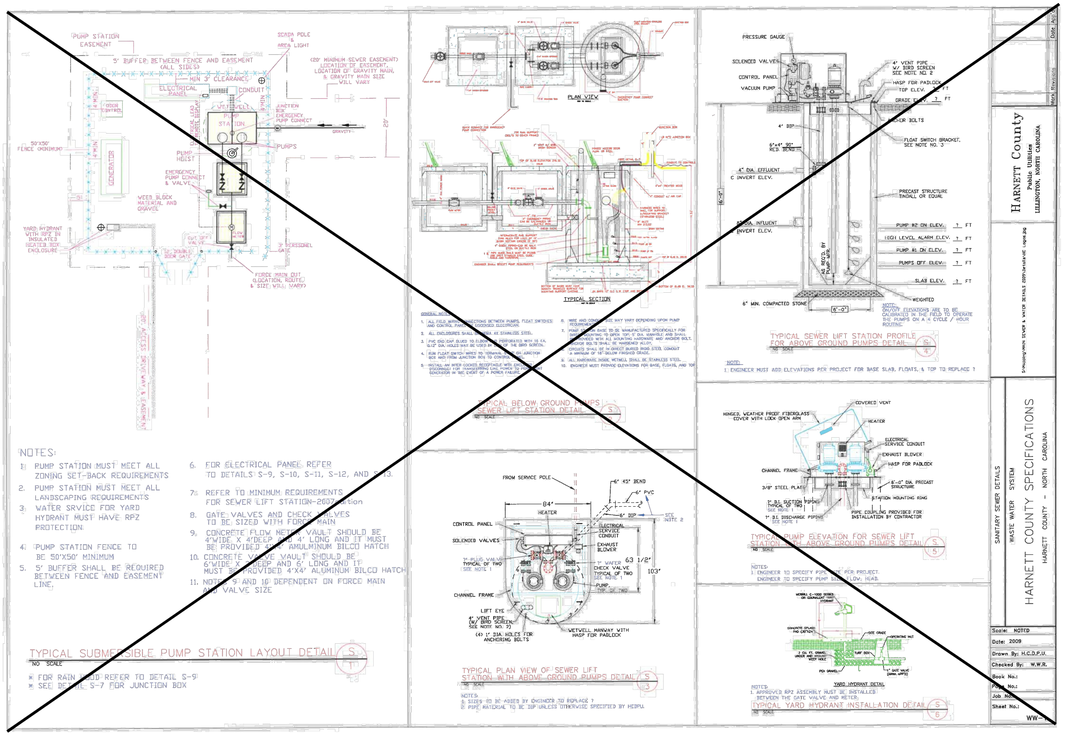
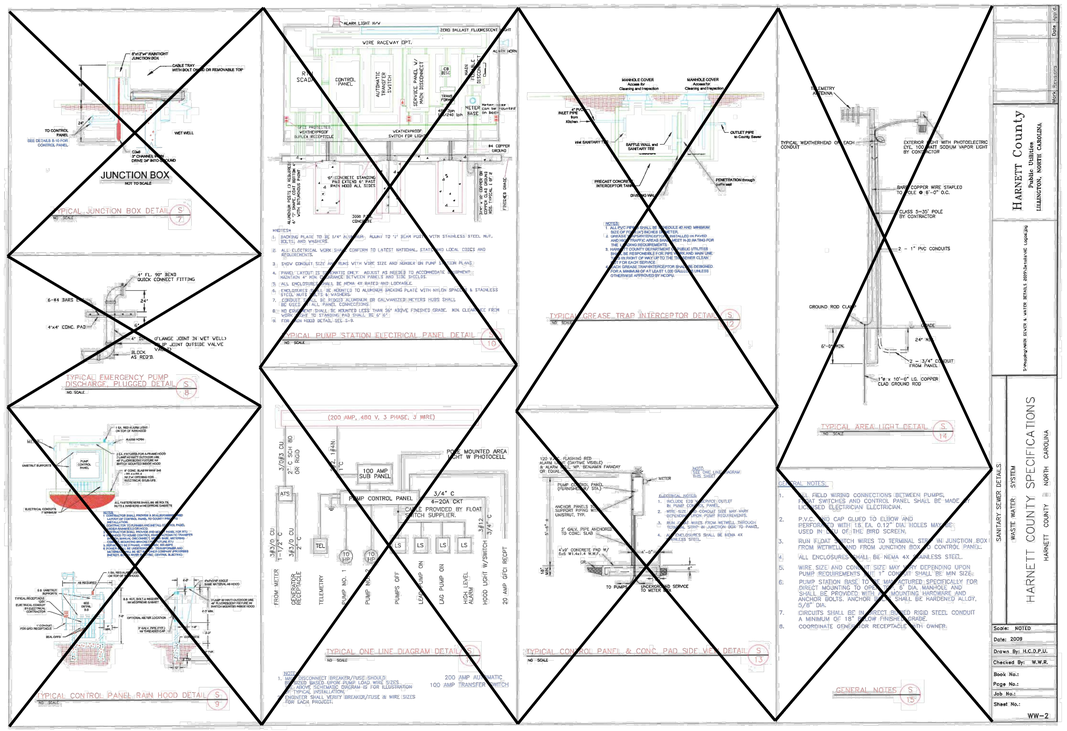
JOB #:	03630032
DATE:	FEBRUARY 25, 2025

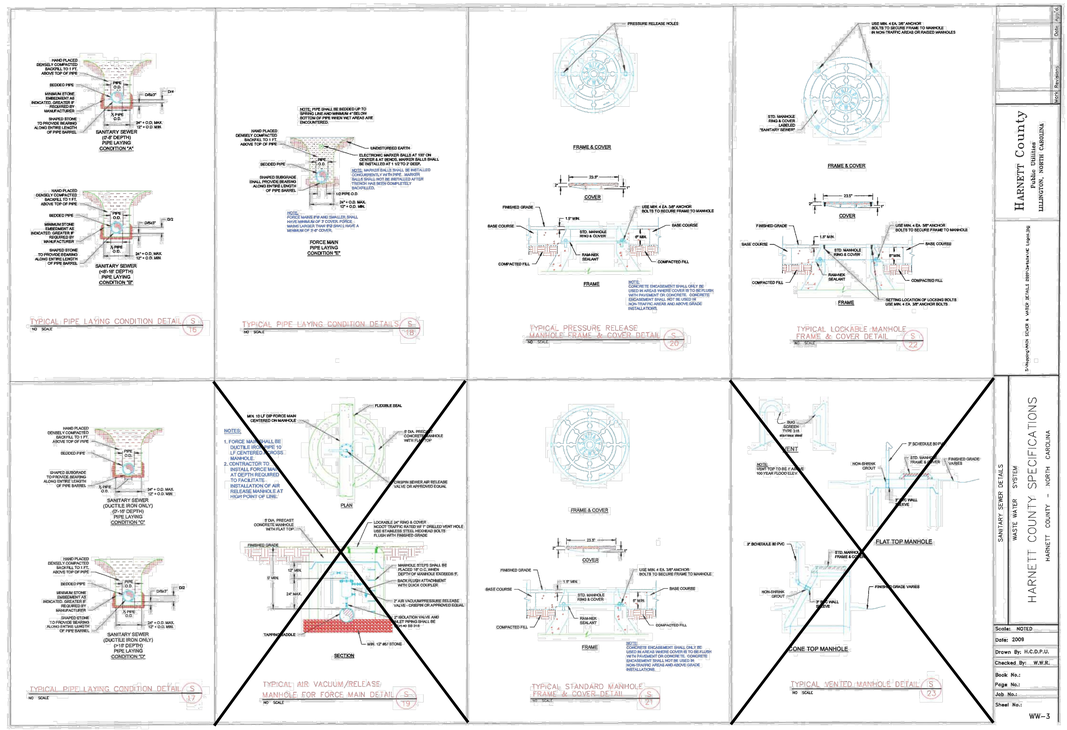
CONSTRUCTION DETAILS - 2

C-7.1

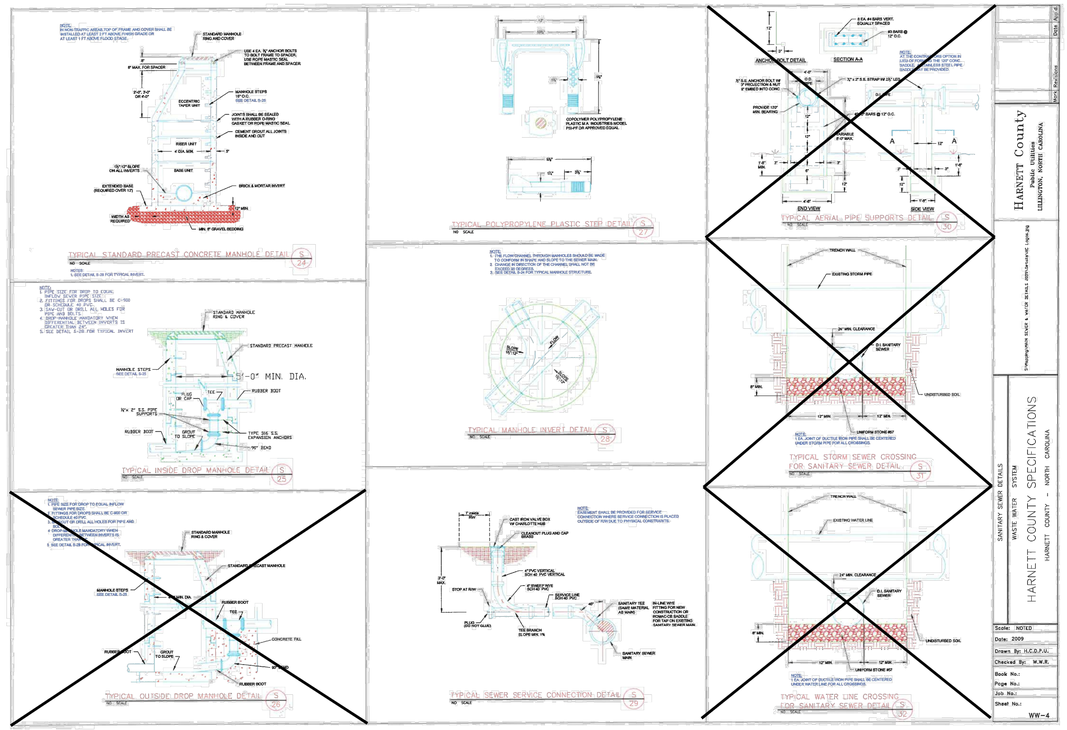




HARNETT REGIONAL WATER DETAILS



HARNETT REGIONAL WATERS



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REVISIONS:

REV.#	DATE	DRAWN BY:	CHECKED BY:
1			

CLIENT
PROUD TO SERVE, LLC
155 FOX HUNT LANE, SOUTHERN PINES, NORTH CAROLINA 28387

PROJECT
SCOOTER'S - #2294
130 BRANDYWOOD CT.
PARCEL PIN: 9584-97-8509.000
CAMERON, HARNETT COUNTY, NORTH CAROLINA

SEAL:

FOR INFORMATIONAL PURPOSES ONLY

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SCALE & NORTH ARROW:

NORTH ARROW
DETAILS ARE **NOT** DRAWN TO SCALE

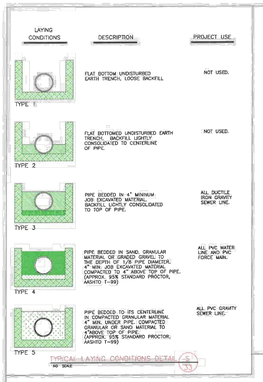
DESIGN INFO:

DRAWN BY:	SOO
DESIGNED BY:	TKS
REVIEWED BY:	TKS
JOB #:	03630302
DATE:	FEBRUARY 25, 2025

CONSTRUCTION DETAILS - 3

C-7.2

Drawing name: C:\Users\ksharpe\Gaskins+LeCraw Dropbox\Shared Folder\#Engineering\03630302 - Scooter's - #2294 - Cameron, NC\CADD\CONSTR\03630302 - 10 - DETAILS.dwg CONSTRUCTION DETAILS - 3 Feb 25, 2025 11:45am by: ksharpe

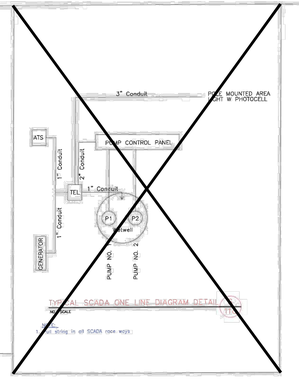


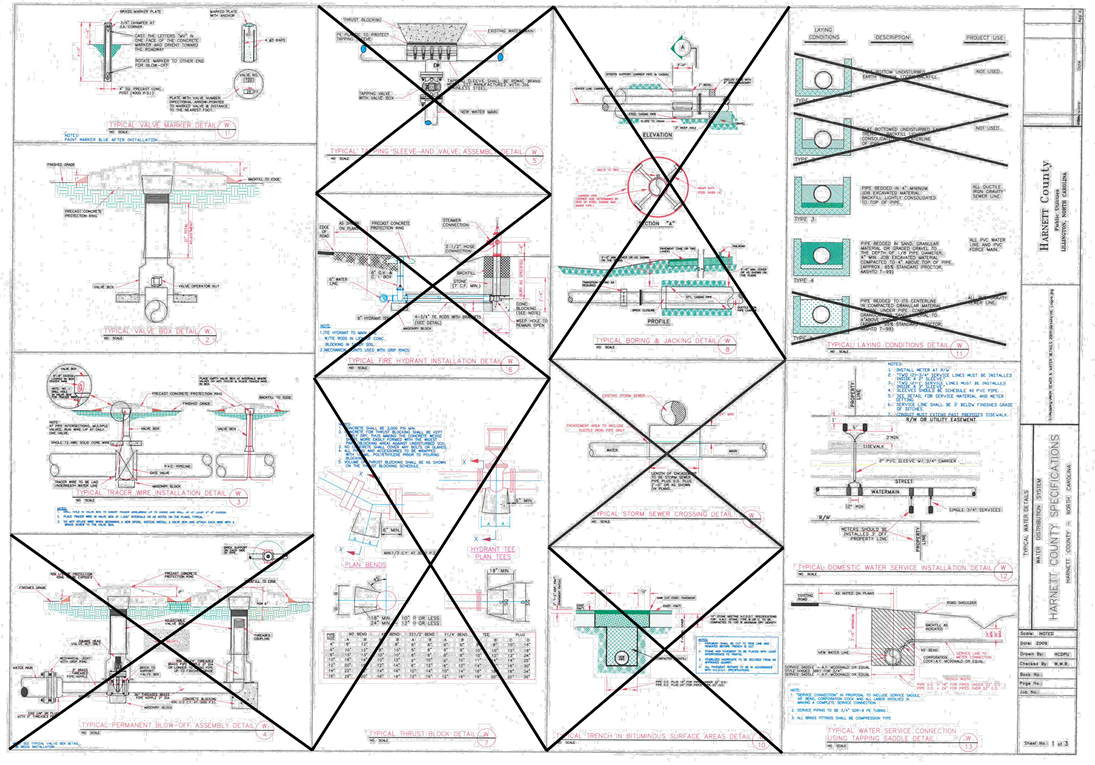
MINIMUM SPECIFIED TIME REQUIRED FOR 8 PSIG PRESSURE DROP AT 5 PSI FOR SIZE AND LENGTH OF PIPE INDICATED FOR Q = 0.0015

1 Pipe Diameter (in.)	2 Minimum Time (min:sec)	3 Length for Minimum Time (ft)	4 Time for Longer Length (sec)	Specification Time for Length (L) Shown (min:sec)							
				100 ft	150 ft	200 ft	250 ft	300 ft	350 ft	400 ft	450 ft
4	1:53	597	.190 L	1:53	1:53	1:53	1:53	1:53	1:53	1:53	1:53
6	2:50	398	.427 L	2:50	2:50	2:50	2:50	2:50	2:50	2:51	3:12
8	3:47	298	.760 L	4:00	4:00	4:00	4:00	4:00	4:26	5:04	5:42
10	4:43	239	1.187 L	4:43	4:43	4:43	4:57	5:56	6:55	7:54	8:54
12	5:40	199	1.709 L	5:40	5:40	5:42	7:08	8:33	9:58	11:24	12:50
15	7:05	159	2.671 L	7:05	7:05	8:54	11:08	13:21	15:35	17:48	20:02
18	8:30	133	3.846 L	8:30	9:37	12:49	16:01	19:14	22:26	25:38	28:51
21	9:55	114	5.235 L	9:55	13:05	17:27	21:49	26:11	30:32	34:54	39:16
24	11:20	99	6.837 L	11:24	17:57	22:48	28:30	34:11	39:53	45:35	51:17
27	12:45	88	8.653 L	14:25	21:38	28:51	36:04	43:16	50:30	57:42	64:54
30	14:10	80	10.683 L	17:48	26:43	35:37	44:31	53:25	62:19	71:13	80:07
33	15:35	72	12.926 L	21:33	32:19	43:06	53:52	64:38	75:24	86:10	96:57
36	17:00	66	15.384 L	25:39	38:28	51:17	64:06	76:55	89:44	102:34	115:23
42	19:54	57	20.942 L	34:54	52:21	69:49	87:15	104:42	122:10	139:37	157:04
48	22:47	50	27.352 L	45:35	68:23	91:11	113:58	136:46	159:33	182:21	205:09
54	25:31	44	34.618 L	57:42	86:33	115:24	144:15	173:05	201:56	230:47	259:38
60	28:20	40	42.738 L	71:14	106:51	142:28	178:05	213:41	249:18	284:55	320:32

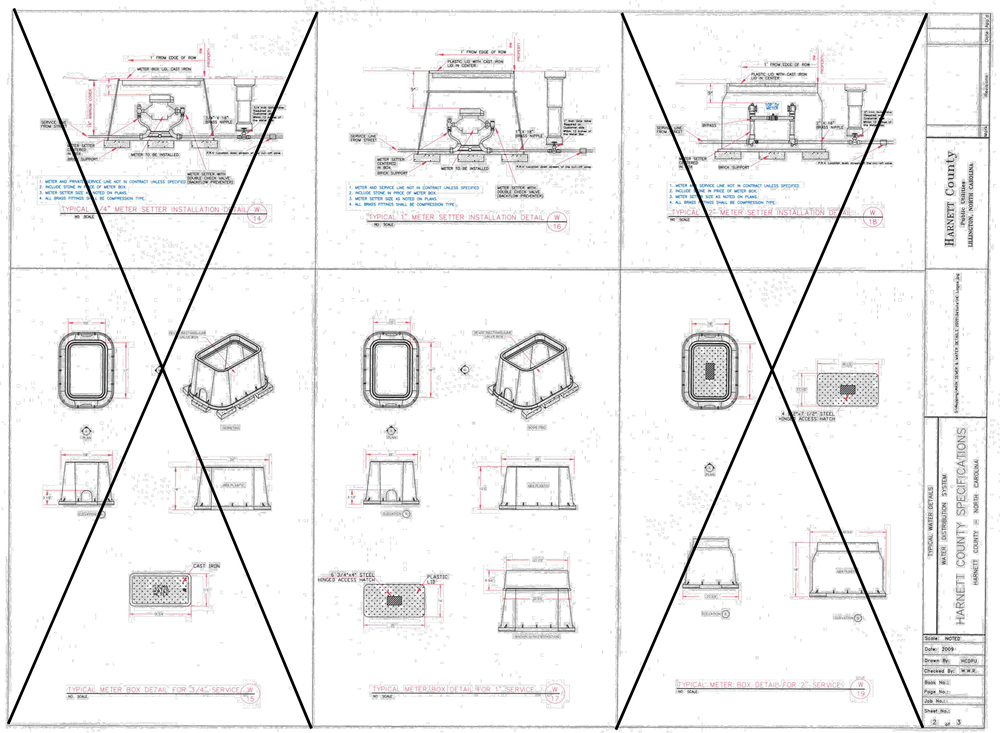
Note: If there has been no leakage (zero psig drop) after one hour of testing, the test section shall be accepted and the test complete

SEWER TESTING TIME TABLE S 34



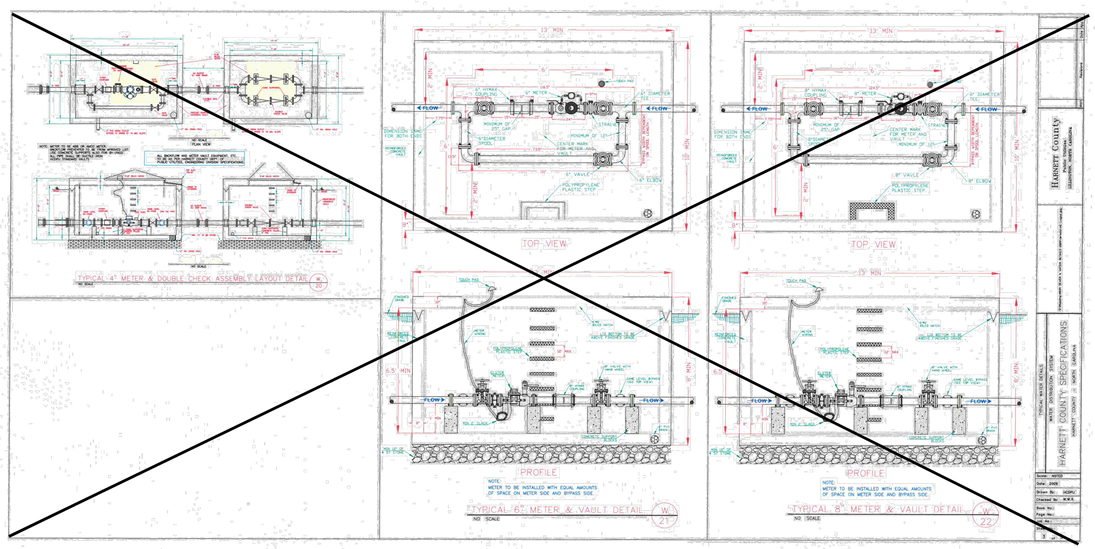


HARNETT REGIONAL WATER DETAILS



HARNETT REGIONAL WATER DETAILS

HARNETT REGIONAL WATERS



HARNETT REGIONAL WATERS

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REVISIONS:

REV #	DATE	DRAWN BY	CHECKED BY
1			
1			
1			
1			

CLIENT
PROUD TO SERVE, LLC
155 FOX HUNT LANE, SOUTHERN PINES, NORTH CAROLINA 28387

PROJECT
SCOOTER'S - #2294
130 BRANDYWOOD CT.
PARCEL PIN: 9584-97-8509.000
CAMERON, HARNETT COUNTY, NORTH CAROLINA

SEAL:

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SCALE & NORTH ARROW:

NORTH ARROW
DETAILS ARE NOT DRAWN TO SCALE

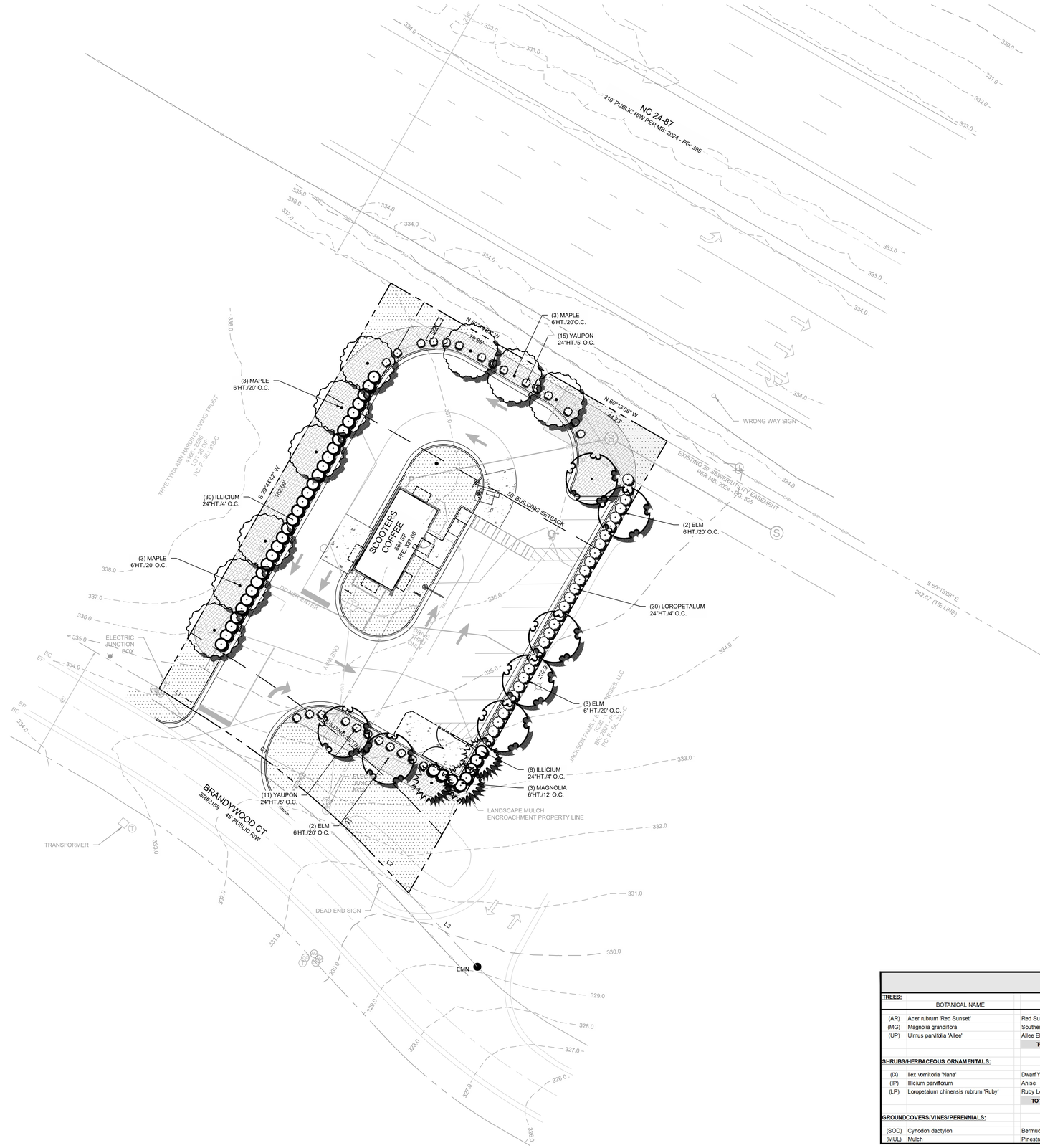
DESIGN INFO:

DRAWN BY:	SOO
DESIGNED BY:	TKS
REVIEWED BY:	TKS
JOB #:	03630032
DATE:	FEBRUARY 25, 2025

CONSTRUCTION DETAILS - 4

C-7.3

Drawing name: C:\Users\ksharpe\Gaskins+LeCraw Dropbox\Shared Folder\Engineering\03630032 - Scooter's - #2294 - Cameron, NC\CADD\CONSTR\03630032 - 10 - DETAILS.dwg CONSTRUCTION DETAILS - 4 Feb 25, 2025 11:45am by: ksharpe



ORDINANCE REQUIREMENTS

BUFFER YARD LANDSCAPE REQUIREMENTS:

BRANDYWOOD CT (100' LINEAR)	**TYPE 'C' BUFFER**
1 LARGE TREE / 30' LINEAR =	3 TREES
5 SHRUBS / TREE =	15 SHRUBS
EAST PROPERTY LINE (200' LINEAR)	**TYPE 'C' BUFFER**
1 LARGE TREE / 30' LINEAR =	7 TREES
5 SHRUBS / TREE =	35 SHRUBS
WEST PROPERTY LINE (180' LINEAR)	**TYPE 'A' BUFFER**
1 LARGE TREE / 30' LINEAR =	6 TREES
5 SHRUBS / TREE =	30 SHRUBS
A ROW OF EVERGREEN SHRUBS PLACED TO FORM A CONTINUOUS HEDGE	
NORTH PROPERTY LINE (80' LINEAR)	**TYPE 'C' BUFFER**
1 LARGE TREE / 30' LINEAR =	3 TREES
5 SHRUBS / TREE =	15 SHRUBS
2 UNDERSTORY TREES CAN BE SUBSTITUTED FOR 1 LARGE TREE	
TOTAL TREES REQUIRED =	19 TREES
TOTAL SHRUBS REQUIRED =	95 SHRUBS
TREES PROVIDED =	**19 TREES**
SHRUBS PROVIDED =	**95 SHRUBS**

SITE SUMMARY

SITE AREA	
SITE AREA:	0.54 ACRES (23,469 S.F.)
IMPERVIOUS AREA:	14,356 S.F. (61%)
PERVIOUS AREA:	9,113 S.F. (39%)
ZONING CLASSIFICATION	
JURISDICTION:	HARNETT COUNTY
ZONING:	COMM
ADJACENT ZONING:	RA-30 & COMM
BUILDING SETBACKS	
FRONT:	50'
SIDE:	20' (ZONING BUFFER)
REAR:	25'
BUILDING SUMMARY	
BUILDING AREA:	664 S.F.
BUILDING COVERAGE:	2.8%
PARKING SUMMARY	
PARKING REQ.:	1 PER 4 SEATS + 1 PER 2 EMPLOYEES 2 SPACES (ASSUMES 4 EMPLOYEES)
PARKING PROV.:	6 SPACES
STANDARD STALL DIMENSIONS:	9' x 18'
MIN. 2-WAY DRIVE WIDTH:	24'

HATCH LEGEND

- SOD / GRASS
- MULCH
- EASEMENTS

NOTE

ALL QUANTITIES ARE FOR A GENERAL GUIDE ONLY. CONTRACTOR SHALL CONFIRM ALL QUANTITIES PRIOR TO BIDDING AND INSTALLATION. GASKINS + LECRAW, INC. SHALL TAKE NO RESPONSIBILITY FOR THE ACCURACY OF THE QUANTITIES PROVIDED.

PLANT LIST

	BOTANICAL NAME	COMMON NAME	QUANTITY	MIN. SIZE	MIN.SPACING	TREE TYPE
TREES:						
(AR)	Acer rubrum 'Red Sunset'	Red Sunset Red Maple	9	2" CAL./6' HT.	20' O.C.	DECIDUOUS CANOPY
(MG)	Magnolia grandiflora	Southern Magnolia	3	2" CAL./6' HT.	12' O.C.	EVERGREEN CANOPY
(UP)	Ulmus parvifolia 'Allee'	Allee Elm	7	2" CAL./6' HT.	20' O.C.	DECIDUOUS CANOPY
		TOTAL NUMBER OF TREES:	**19**			
SHRUBS/HERBACEOUS ORNAMENTALS:						
(IX)	Ilex vomitoria 'Nana'	Dwarf Yaupon Holly	26	24" HT	5' O.C.	
(IP)	Illicium parviflorum	Anise	39	24" HT	4' O.C.	
(LP)	Loropetalum chinensis rubrum 'Ruby'	Ruby Loropetalum	30	24" HT	4' O.C.	
		TOTAL NUMBER OF SHRUBS:	**95**			
GROUNDCOVERS/VINES/PERENNIALS:						
(SOD)	Cynodon dactylon	Bermuda Grass	5,000 S.F.			
(MUL)	Mulch	Pinestraw	5,100 S.F.			

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SUITE A
DULUTH, GA 30096
PHONE - 678.546.8100
www.gaskinslecraw.com

P-2646

REVISIONS:

REV.#	DESCRIPTION	DATE	DRAWN BY:	CHECKED BY:
-	REDUCED LANDSCAPE TO CODE MIN	03/31/25	MAT	TKS

CLIENT
PROUD TO SERVE, LLC
155 FOX HUNT LANE, SOUTHERN PINES, NORTH CAROLINA 28387

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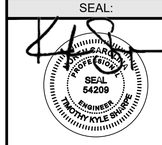
SEAL:



3/31/2025

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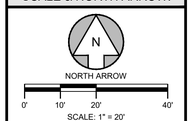
SCALE & NORTH ARROW:



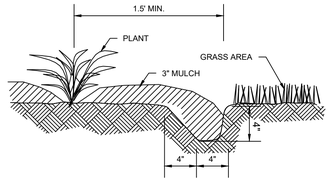
DESIGN INFO:

DRAWN BY:	SOO
DESIGNED BY:	TKS
REVIEWED BY:	TKS
JOB #:	03630032
DATE:	ORIGINAL SUBMITTAL DATE

LANDSCAPE PLAN

L-1.0

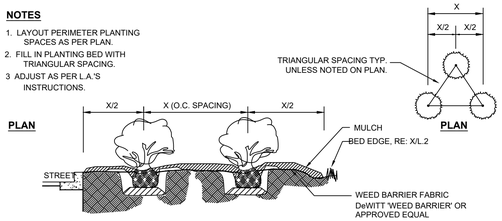
Drawing name: C:\Users\jadeyemi\Gaskins+LeCraw Dropbox\Shared Folders\Engineering\03630032 - Scooter's - #2294 - Cameron, NC\CADD\CONSTR\03630032 - 11 - LANDSCAPE.dwg LANDSCAPE PLAN Mar 31, 2025 4:37pm by: jadeyemi



PLANT BED EDGING DETAIL

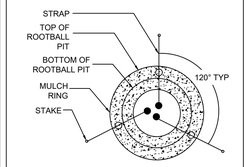
NOTES

1. LAYOUT PERIMETER PLANTING SPACES AS PER PLAN.
2. FILL IN PLANTING BED WITH TRIANGULAR SPACING.
3. ADJUST AS PER L.A.'S INSTRUCTIONS.



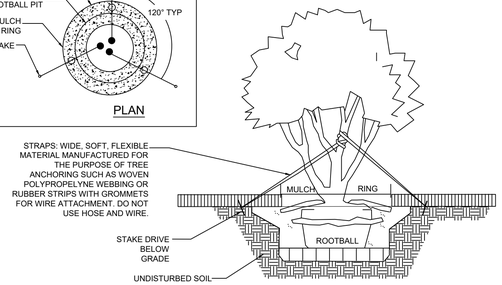
NOTE:

1. ATTACH GUYS TO THE CENTRAL LARGEST TRUNK.
2. SPACE STAKES EVENLY AROUND ROOTBALL PIT SUCH THAT WIRES DO NOT COME IN CONTACT WITH ANY TRUNK OR BRANCH.



PLANTING PROCEDURE:

1. EXCAVATE ROOTBALL PIT.
2. ADD EXCAVATED SOIL & TAMP. SET TREE SUCH THAT TOP OF ROOTBALL IS 2-3" HIGHER THAN FINISHED GRADE.
3. BACKFILL W/SOIL MIX & "WATER IN"



GENERAL IRRIGATION NOTES

1. CONTRACTOR SHALL LOCATE UTILITIES AND SERVICES IN AND AROUND THE SITE PRIOR TO START OF WORK.
2. THE CONTRACTOR SHALL MAKE ALL EFFORTS TO AVOID DAMAGE TO EXISTING STRUCTURES, PAVING, AND UTILITIES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIR OF DAMAGE TO ON-SITE UTILITIES, STRUCTURES, OR PAVING RESULTING FROM IRRIGATION CONSTRUCTION. REPAIRS SHALL BE COMPLETED AT NO ADDOTIONAL COST TO THE OWNER.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFORMING TO ALL CODES AND ORDINANCES RELEVANT TO THE WORK UNDER THIS CONTRACT.
5. ALL WORK SHALL BE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT OR OWNER.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS AND LABOR TO FULLY EXECUTE AND GUARANTEE, AS REQUIRED, ALL WORK IN ACCORDANCE WITH SPECIFICATIONS, AND ALSO AS PER INSTRUCTIONS OF THE LANDSCAPE ARCHITECT AND THE OWNER.
7. CONTRACTOR SHALL USE ONLY NEW, COMMERCIAL GRADE MATERIAL.
8. AUTOMATIC CONTROL CLOCK WILL BE LOCATED ON-SITE BY THE LANDSCAPE ARCHITECT OR OWNER.
9. IRRIGATION DESIGNER SHALL LAYOUT SYSTEM TO MINIMIZE CONFLICTS WITH THE LOCATION OF PROPOSED PLANT MATERIALS (AS SHOWN ON THE PLANTING PLAN) AND OTHER SITE AMENITIES.
10. ALL MAIN LINES SHALL BE INSTALLED A MAXIMUM OF 2' FROM THE BACK OF CURBS WHERE POSSIBLE. LATERALS LINES SHALL BE INSTALLED LIKEWISE WHERE POSSIBLE.
11. THE CONTRACTOR SHALL ADJUST THE RADIUS AND ARC OF EACH HEAD TO MINIMIZE "OVERTHROW" AND TO ELIMINATE "DRY SPOTS." OVERTHROW ONTO PAVED AREAS SHALL NOT BE ALLOWED.
12. ELECTRIC SUPPLY WILL BE STUBBED-OUT AT CONTROL CLOCK LOCATION BY OTHERS. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL CONNECTIONS FROM CONTROL VALVES TO THE CONTROL CLOCK.
13. THE ENTIRE SYSTEM SHALL BE UNCONDITIONALLY GUARANTEED BY THE IRRIGATION CONTRACTOR AGAINST ALL DEFECTIVE WORK AND MATERIALS FOR A PERIOD OF ONE YEAR FROM THE DATE OF TOTAL ACCEPTANCE.
14. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE AT TIME OF COMPLETION FOR PROVIDING "AS-BUILT" DRAWINGS, TO INCLUDE LOCATIONS OF ALL VALVES (MANUAL AND AUTOMATIC) WITH TRIANGULATED MEASUREMENTS TO EACH LOCATION AS WELL AS ANY DEVIATIONS IN LOCATION OF PIPING AND HEADS AS REPRESENTED BY THE CONTRACT DOCUMENTS.
15. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO HAVE ALL PLANTING AREAS MARKED BY THE LANDSCAPE ARCHITECT OR CONTRACTOR PRIOR TO INSTALLATION.
16. ALL MAINLINES AND LATERAL LINES SHALL BE CLASS 200 PVC.
17. ALL SLEEVES SHALL BE SCHEDULE 40 PVC.
18. CONTRACTOR SHALL SUPPLY: TWO QVC KEYS AND MATCHING HOSE SWIVELS; TWO OF EACH TYPE OF IRRIGATION HEAD; AS-BUILT IRRIGATION PLAN; AND LAMINATED DIAGRAM OF IRRIGATION ZONES.
19. LAWN, SHRUBS/TREES, AND FLOWERS SHALL EACH BE ZONED SEPARATELY.
20. CONTRACTOR SHALL VERIFY WATER SUPPLY G.P.M. AND P.S.I. PRIOR TO SYSTEM DESIGN AND CONSTRUCTION.

PREPARED IN THE OFFICE OF:

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PHONE - 678.546.8100
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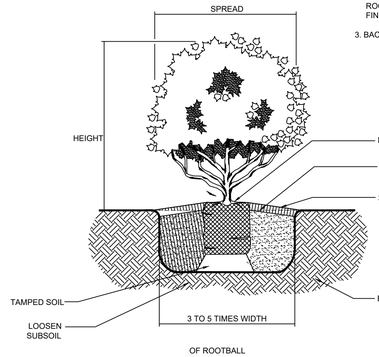
REVISIONS:

REV.#	DATE	DRAWN BY:	CHECKED BY:
1			
2			
3			
4			

SHRUB & GROUNDCOVER BED DETAIL

PLANTING PROCEDURE:

1. EXCAVATE ROOTBALL PIT.
2. ADD EXCAVATED SOIL & TAMP. SET TREE SUCH THAT TOP OF ROOTBALL IS 2-3" HIGHER THAN FINISHED GRADE.
3. BACKFILL W/SOIL MIX & "WATER IN"



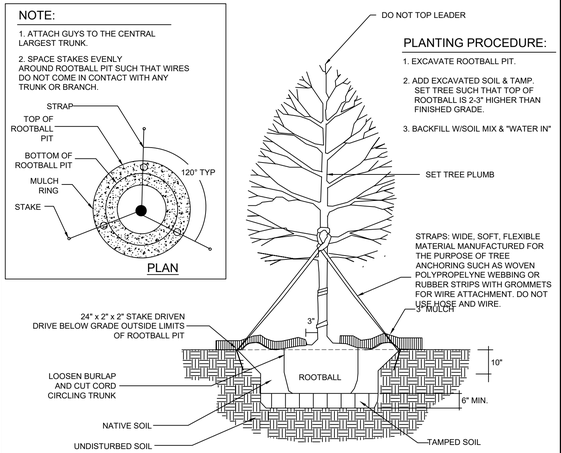
MULTI-TRUNK TREE PLANTING DETAIL

NOTE:

1. ATTACH GUYS TO THE CENTRAL LARGEST TRUNK.
2. SPACE STAKES EVENLY AROUND ROOTBALL PIT SUCH THAT WIRES DO NOT COME IN CONTACT WITH ANY TRUNK OR BRANCH.

PLANTING PROCEDURE:

1. EXCAVATE ROOTBALL PIT.
2. ADD EXCAVATED SOIL & TAMP. SET TREE SUCH THAT TOP OF ROOTBALL IS 2-3" HIGHER THAN FINISHED GRADE.
3. BACKFILL W/SOIL MIX & "WATER IN"



GENERAL LANDSCAPE NOTES

1. ALL PLANT MATERIAL MUST BE HEALTHY, VIGOROUS, & FREE OF PESTS AND DISEASE.
2. ALL PLANTS MUST BE CONTAINER GROWN OR BALLED & BURLAPPED.
3. ALL TREES MUST HAVE A FULL HEAD, STRAIGHT TRUNK, SINGLE DOMINANT LEADER, & MEET ALL REQUIREMENTS SPECIFIED IN PLANT LIST.
4. ALL PLANTS ARE SUBJECT TO REJECTION BY THE OWNER BEFORE, DURING, & AFTER INSTALLATION.
5. STAKE TREES, IF ENVIRONMENTAL CONDITIONS WARRANT. (I.E. WIND OR STEEP SLOPES)
6. ALL PLANTS & PLANT BEDS MUST BE COMPLETELY MULCHED WITH 3" OF CLEAN, ORGANIC MULCH (PINESTRAW, WOOD CHIPS).
7. PRIOR TO CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES & SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY & ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE LANDSCAPE CONSTRUCTION, AT NO ADDITIONAL COST TO OWNER.
8. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON PLANS, BEFORE PRICING WORK. CONTRACTOR SHALL IMMEDIATELY NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.
9. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING (INCLUDING, BUT NOT LIMITED TO, WATERING, SPRAYING, MULCHING, MOWING, FERTILIZING, ETC.) ALL PLANTED AREAS AND LAWNS UNTIL THE JOB IS ACCEPTED IN FULL, BY THE OWNER.
10. THE OWNER WILL CONTRACT FOR A PROGRAM OF LANDSCAPE MAINTENANCE SERVICES THROUGHOUT THE ONE (1) YEAR GUARANTEE PERIOD UNLESS OTHERWISE DETERMINED.
11. THE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE (1) YEAR BEGINNING AT THE DATE OF TOTAL ACCEPTANCE AND SHALL PROMPTLY MAKE ALL REPLACEMENTS BEFORE OR AT THE END OF THE GUARANTEE PERIOD (AS PER DIRECTION OF THE LANDSCAPE ARCHITECT).
12. THE LANDSCAPE ARCHITECT WILL APPROVE THE STAKED LOCATION OF ALL PLANT MATERIAL PRIOR TO INSTALLATION.
13. DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING.
14. WATER TREES AFTER PLANTING.
15. MAINTAIN ORIGINAL GRADE OR SLIGHTLY ABOVE GRADE AT THE TREE BASE.
16. DO NOT BREAK ROOT BALL.
17. SET TRUNKS PLUMB
18. ALL DUG TREES IN LEAF SHALL BE ACCLIMATED FOR TWO WEEKS UNDER A MIST SYSTEM, AT THE NURSERY SOURCE, PRIOR TO INSTALLATION.
19. ANY PLANT MATERIAL WHICH DIES, TURNS BROWN, DEFOLIATES OR FAILS TO GERMINATE PRIOR TO TOTAL ACCEPTANCE OF THE WORK SHALL BE PROMPTLY REMOVED FROM THE SITE & REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, SIZE AND MEETING ALL PLANT LIST SPECIFICATIONS AT NO COST TO THE OWNER.
20. STANDARDS SET FORTH IN THE LATEST EDITION OF "AMERICAN STANDARDS FOR NURSERY STOCK" REPRESENT GUIDELINE SPECIFICATIONS ONLY AND CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL OF THE SAME SPECIES, QUANTITY, SIZE AND MEETING ALL PLANT LIST SPECIFICATIONS.
21. IF SUFFICIENT ADDITIONAL TOPSOIL IS AVAILABLE, THE CONTRACTOR SHALL BACKFILL THE PARKING LOT ISLANDS WITH 100% TOPSOIL. PLANTERS SHALL BE FREE OF DELETERIOUS MATERIAL AND SOIL SHALL BE SUITABLE FOR PLANTING. ALL ROCKS AND DEBRIS SHALL BE REMOVED FROM PLANTING BEDS, INCLUDING SODDED AREAS, PRIOR TO INSTALLATION.
22. THE CONTRACTOR HAS THE COMPLETE RESPONSIBILITY FOR THE HANDLING OF ALL SURPLUS EXCAVATED MATERIALS INCLUDING THE REMOVAL OF ANY EXCESS MATERIALS FROM THE PROJECT SITE. THE CONTRACTOR SPECIFICALLY UNDERSTANDS AND AGREES THAT DUE TO THE SEQUENCE OF THE WORK, HE MAY NEED TO RETAIN SELECT EXACERBATED MATERIALS ON SITE TO MEET LATER NEEDS OF THE PROJECT. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AS TO ANY DECISIONS MADE TO HAUL OFF EXCESS MATERIAL OR TO RETAIN MATERIAL ON SITE FOR LATER USE. THE CONTRACTOR SHALL HAVE THE COMPLETE RESPONSIBILITY FOR HAVING ADEQUATE, SUITABLE MATERIAL ON-SITE TO REPLACE UNSUITABLE MATERIAL OR TO OTHERWISE CONFORM TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
23. CONTRACTOR SHALL REMOVE & DISPOSE OF ALL PLANT MATERIAL EXISTING ON SITE THAT DOES NOT CONFORM WITH THE LANDSCAPE PLAN. ALL LANDSCAPED AREAS SHALL BE TREATED AS SPECIFIED ON THE LANDSCAPE PLAN OR AS DIRECTED BY THE LANDSCAPE ARCHITECT. THIS SHALL INCLUDE ALL GRASS AREAS USED FOR EROSION CONTROL PURPOSES.
24. GRASS ALL DISTURBED AREAS (INCLUDING RIGHT-OF-WAY), UNLESS OTHERWISE INDICATED. AREAS TO BE SODDED SHALL BE CLEANED OF ALL STONES AND DEBRIS, RAKED SMOOTH AND CONFORM TO PROPOSED GRADES. IF SODDED, SOD SHALL BE ROLLED TO PROVIDE A CONSISTENTLY EVEN SURFACE.
25. CONTRACTOR SHALL DESIGN AND INSTALL AUTOMATIC IRRIGATION SYSTEM TO PROVIDE 100% COVERAGE IN ACCORDANCE WITH SPRINKLER HEAD MANUFACTURER'S SPECIFICATIONS.

CLIENT

PROUD TO SERVE, LLC

155 FOX HUNT LANE, SOUTHERN PINES, NORTH CAROLINA 28387

PROJECT

SCOOTER'S - #2294

130 BRANDYWOOD CT.
PARCEL PIN: 9584-97-8509.000
CAMERON, HARNETT COUNTY, NORTH CAROLINA

SEAL:

2/25/2025

CALL BEFORE YOU DIG

811
Know what's below.
Call before you dig.

SCALE & NORTH ARROW:

NORTH ARROW

DETAILS ARE **NOT** DRAWN TO SCALE

DESIGN INFO:

DRAWN BY:	SOO
DESIGNED BY:	TKS
REVIEWED BY:	TKS
JOB #:	03630032
DATE:	FEBRUARY 25, 2025

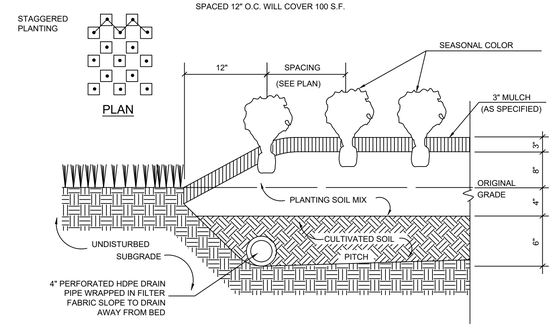
LANDSCAPE DETAILS

L-1.1

SEASONAL COLOR PLANTING DETAIL

100 PLANTS:

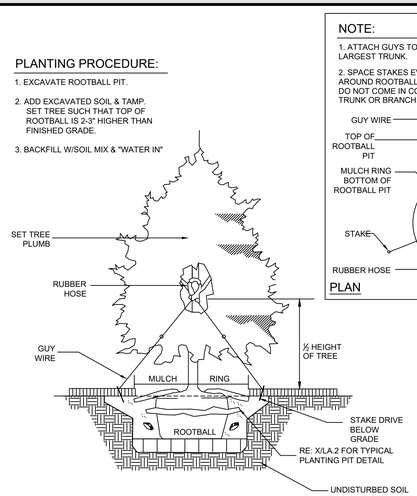
SPACED 4" O.C. WILL COVER 11 S.F.
SPACED 6" O.C. WILL COVER 25 S.F.
SPACED 8" O.C. WILL COVER 44 S.F.
SPACED 10" O.C. WILL COVER 70 S.F.
SPACED 12" O.C. WILL COVER 100 S.F.



SHRUB & GROUNDCOVER PLANTING DETAIL

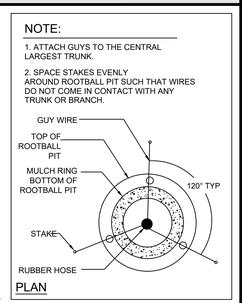
PLANTING PROCEDURE:

1. EXCAVATE ROOTBALL PIT.
2. ADD EXCAVATED SOIL & TAMP. SET TREE SUCH THAT TOP OF ROOTBALL IS 2-3" HIGHER THAN FINISHED GRADE.
3. BACKFILL W/SOIL MIX & "WATER IN"

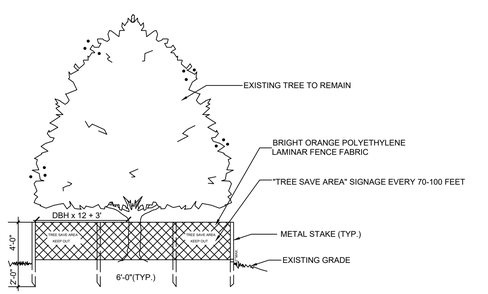


NOTE:

1. ATTACH GUYS TO THE CENTRAL LARGEST TRUNK.
2. SPACE STAKES EVENLY AROUND ROOTBALL PIT SUCH THAT WIRES DO NOT COME IN CONTACT WITH ANY TRUNK OR BRANCH.

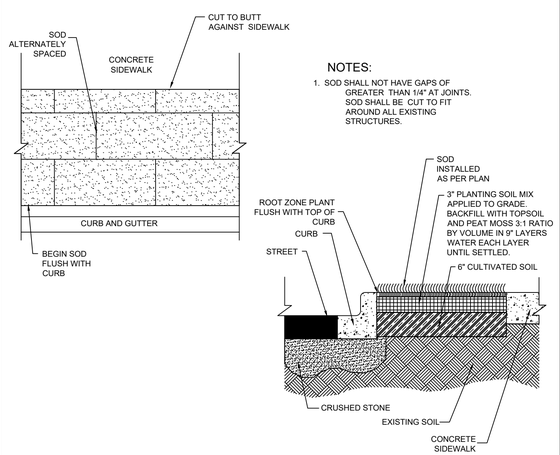


TYPICAL TREE PLANTING DETAIL



NOTE:
ALL TREE PROTECTION DEVICES ARE TO BE INSTALLED PRIOR TO ANY CONSTRUCTION ACTIVITES BEGIN AND MAINTAINED UNTIL FINAL LANDSCAPE IS INSTALLED. NO PARKING, STORAGE OR OTHER CONSTRUCTION SITE ACTIVITIES ARE TO OCCUR WITHIN THE TREE PROTECTION AREA. ALL TREE PROTECTION FENCING TO BE INSPECTED DAILY AND REPLACE OR REPAIRED AS NEEDED. ALL TREE PROTECTION FENCE MUST BE ACCOMPANIED BY "KEEP OUT" OR "TREE SAVE" SIGNAGE. FENCE LOCATIONS ON PLANS ARE APPROXIMATE AND SHOULD BE INSTALLED TO PROTECT THE CRITICAL ROOT ZONE. FENCING IS TO BE INSTALLED OUTSIDE OF TREE DRIPLINE.

SOD PLACEMENT DETAIL



NOTES:

1. SOD SHALL NOT HAVE GAPS OF GREATER THAN 1/4" AT JOINTS. SOD SHALL BE CUT TO FIT AROUND ALL EXISTING STRUCTURES.

EVERGREEN TREE PLANTING DETAIL

TREE PROTECTION DETAIL

Drawing name: C:\Users\ksharpe\Gaskins+LeCraw Dropbox\Shared Folder\#Engineering\03630032 - Scooter's - #2294 - Cameron, NC\CADD\CONSTR\03630032 - 11 - LANDSCAPE.dwg LANDSCAPE DETAILS Feb 25, 2025 11:46am by ksharpe

GENERAL STRUCTURAL NOTES

BUILDING CODE:

2018 INTERNATIONAL BUILDING CODE

LOADS:

ROOF:

ROOF LIVE LOAD = 20 PSF (REDUCIBLE PER IBC SECTION 1607.9)
ROOF DEAD LOAD = 20 PSF

ROOF NET UPLIFT = 10 PSF

WIND:

WIND SPEED = 118 MPH 3-SECOND GUST
EXPOSURE = C
RISK CATEGORY II
IW = 1.0

SEISMIC:

RISK CATEGORY II
IE = 1.0
SS = 0.148
S1 = 0.07
SITE CLASS = D
SDS = 0.157
SD1 = 0.112
DESIGN CATEGORY = B
BASIC SEISMIC-FORCE-RESISTING SYSTEM: LIGHT FRAMED WOOD SHEARWALLS
R = 6.5
ANALYSIS PROCEDURE USED = EQUIVALENT LATERAL FORCE

SNOW:

Pg = 10 PSF
CE = 1.0
IS = 1.0
CT = 1.0
PF = 7 PSF + 5 PSF RAIN ON SNOW

FOUNDATIONS:

SOILS REPORT BY: SOLID GROUND

DESIGN SOIL BEARING PRESSURE :
CONTINUOUS FOOTINGS = 2000 PSF

BOTTOM OF FOOTINGS SHALL BEAR ON ON SITE MATERIAL OR STRUCTURAL FILL PROVIDED THE FILL MATERIALS MEET THE REQUIREMENTS IN THE SOILS REPORT AT A DEPTH OF 1'-6" MINIMUM BELOW FINISHED GRADE. FINISHED GRADE IS DEFINED AS THE TOP OF CONCRETE SLAB FOR INTERIOR FOOTINGS AND LOWEST ADJACENT GRADE WITHIN FIVE (5) FEET OF STRUCTURE FOR PERIMETER FOOTINGS. BOTTOM OF FOOTING DEPTHS GIVEN HEREIN ARE MINIMUMS ONLY. CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND COORDINATING ACTUAL DEPTHS REQUIRED FOR FOOTINGS WITH ARCHITECTURAL PLANS, CIVIL PLANS, AND SITE CONDITIONS. RESOLVE ANY DISCREPANCIES PRIOR TO START OF CONSTRUCTION.

CONCRETE:

ALL CONCRETE CONSTRUCTION AND DETAILING SHALL CONFORM TO THE LATEST EDITION OF ACI 318
MINIMUM 28 DAY COMPRESSIVE STRENGTH (F'C) SHALL BE AS FOLLOWS:

SLABS ON GRADE ---------- 3,000 PSI
FOUNDATIONS----------3,000 PSI

ALL CONCRETE IS TO BE MECHANICALLY VIBRATED WHEN PLACED, EXCEPT SLABS ON GRADE NEED BE VIBRATED ONLY AROUND UNDER-FLOOR DUCTS, PENETRATIONS, ETC. CONCRETE SHALL BE DEPOSITED AS NEAR AS POSSIBLE TO ITS FINAL POSITION AND SHALL BE PLACED SO AS TO AVOID SEGREGATION. VIBRATING EQUIPMENT SHALL NOT BE USED TO MOVE CONCRETE INTO POSITION. ALL REINFORCING, EMBED PLATES, ANCHORS, ETC, SHALL BE IN PLACE AND PROPERLY SECURED PRIOR TO PLACING CONCRETE. "WET STABBING" IS NOT ALLOWED.

ALL CONCRETE SLABS ON GRADE SHALL BE BOUND BY KEYED OR SAW CUT CONTROL JOINTS AS SHOWN ON THE FOUNDATION PLAN, SUCH THAT THE ENCLOSED AREA DOES NOT EXCEED 150 SQUARE FEET, UNLESS APPROVED OTHERWISE IN WRITING BY THE ARCHITECT. KEYED CONTROL JOINTS NEED TO OCCUR ONLY AT SLAB EDGES LEFT EXPOSED DURING PLACEMENT. ALL OTHER JOINTS MAY BE SAW CUT.

REVIBRATE TOPS OF CAISSONS 15 MINUTES AFTER PLACING CONCRETE.

FLY ASH - IF PERMITTED BY ARCHITECTURAL SPECIFICATIONS OR REQUESTED BY CONTRACTOR, SHALL BE LIMITED TO 18% OF CEMENTITIOUS MATERIALS AND SHALL HAVE A REPLACEMENT FACTOR OF 1.2 RELATIVE TO CEMENT REPLACED.

NO FLY ASH ADDITIVES SHALL BE USED IN FLATWORK OR ARCHITECTURALLY EXPOSED CONCRETE.

REINFORCING:

ALL REINFORCING SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF ACI 318, CRSI SPECIFICATIONS AND HANDBOOK, AND THE STEEL REINFORCING DETAILING MANUAL. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 (FY = 60 KSI) DEFORMED BARS FOR ALL BARS UNLESS NOTED OTHERWISE. ALL GRADE 60 REINFORCING TO BE WELDED SHALL BE ASTM A706. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 WITH THE WIRE CONFORMING TO ASTM A82. REINFORCING BARS SHALL NOT BE TACK WELDED. REINFORCING BAR SPACING AS SHOWN ARE MAXIMUM ON CENTER SPACING.
CLEAR CONCRETE COVERAGES SHALL BE AS FOLLOWS:

CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH ----------3"
EXPOSED TO EARTH OR WEATHER:
#6 OR LARGER ---------- 2"
#5 AND SMALLER ---------- 1 1/2"
ALL OTHER PER LATEST EDITION OF ACI 318.

LAP SPLICES IN CONCRETE:
(BARS)
LAP SPLICES SHALL BE CLASS "B" TENSION LAP SPLICES AS DESCRIBED IN THE LATEST EDITION OF ACI 318 UNLESS OTHERWISE NOTED. LAP SPLICES IN CONCRETE COLUMNS SHALL BE STANDARD COMPRESSION LAP SPLICES. SPLICES SHALL BE STAGGERED A MINIMUM OF ONE LAP LENGTH.

ALL SPLICE LOCATIONS ARE SUBJECT TO APPROVAL BY THE STRUCTURAL ENGINEER. BENT CORNER BARS SHALL BE PLACED AT ALL CORNERS AND INTERSECTIONS AND SHALL MATCH AND LAP WITH HORIZONTAL BARS AS INDICATED IN THE TYPICAL DETAILS. ALL BENT BARS SHALL BE COLD BENT. ALL VERTICAL REINFORCING SHALL BE DOWELED INTO FOOTINGS WITH STANDARD 90-DEGREE HOOKS UNLESS NOTED OTHERWISE. CONCRETE COLUMN DOWEL EMBEDMENT SHALL BE A STANDARD COMPRESSION DOWEL WITH EMBEDMENT LENGTH ACCORDING TO THE LATEST EDITION OF THE ACI 318.

ALL REINFORCING AND EMBEDDED ITEMS SUCH AS PLATES, BOLTS, ETC. SHALL BE IN PLACE AND PROPERLY SECURED PRIOR TO PLACING GROUT OR CONCRETE. IN NO CASE SHALL ITEMS BE "WET SET" OR STABBED INTO UNSET GROUT OR CONCRETE. REINFORCING SHALL BE SECURED IN PLACE SO AS TO AVOID MOVEMENT DURING PLACEMENT.

WOOD:

SAWN LUMBER:

EACH PIECE OF FRAMING LUMBER SHALL BE GRADED BY AND BEAR THE STAMP OF A RULES WRITING AGENCY RECOGNIZED AND APPROVED BY THE AMERICAN LUMBER STANDARDS COMMITTEE. ALL TIMBER CONSTRUCTION SHALL COMPLY WITH THE LATEST STANDARDS OF THE AMERICAN INSTITUTE FOR TIMBER CONSTRUCTION. THE IN PLACE GRADE OF ALL LUMBER SHALL MEET OR EXCEED THE ORIGINAL GRADE SPECIFIED WHEN GRADED. DEFICIENCIES DUE TO WEATHERING, DRYING, CONSTRUCTION DEFECTS, MIS HANDLING, ETC. SHALL BE CAUSE FOR REJECTION AND SHALL BE REPLACED. ANY SHRINKAGE OR DEFORMATION OF FRAMING MEMBERS DUE TO SEASONING SHALL BE REMEDIED BY REPLACEMENT PRIOR TO PLACING SHEATHING AND OR SUBSEQUENT SUPPORTED MEMBERS.
LUMBER SHALL BE VISUALLY GRADED OR MACHINE STRESS RATED TO MEET THE FOLLOWING MINIMUM PROPERTIES (IN DRY SERVICE CONDITIONS) UNLESS NOTED OTHERWISE:

NOMINAL SIZE……..GRADE

JOISTS
2 X 4……. D.F. # 1
2 X 6 AND LARGER…….. D.F. # 2

BEAMS
ALL……. D.F. # 2

LEDGERS AND PLATES
ALL……. D.F. #2

POSTS
UP TO 4 X 4…….. D.F. # 2
GREATER THAN 4 X 4…… D.F. # 1

STUDS
ALL……..D.F. #2

PLYWOOD:

ALL PLYWOOD SHALL BE APA RATED "CD" SHEATHING OR BETTER WITH EXTERIOR GLUE AND SHALL BEAR THE STAMP OF AN APPROVED TESTING AGENCY. PLACE PLYWOOD WITH FACE GRAIN PERPENDICULAR TO SUPPORTS. IN NO CASE SHALL THE FACE GRAIN BE PARALLEL TO THE SUPPORTS WHERE SUPPORTS ARE SPACED GREATER THAN 2'-0" O.C. STAGGER JOINTS. ALL NAILED ATTACHMENTS SHALL BE ACHIEVED USING COMMON NAILS. WHERE SCREWS ARE INDICATED FOR WOOD TO WOOD ATTACHMENTS, USE WOOD SCREWS. ALL PLYWOOD SHALL BE OF THE FOLLOWING MINIMUM NOMINAL THICKNESS, SPAN/INDEX RATIO AND SHALL BE ATTACHED AS FOLLOWS UNLESS NOTED OTHERWISE:

USE	THICKNESS	SPAN/INDEX RATIO	PANEL EDGE ATTACHMENT SPACING	INTERMEDIATE ATTACHMENT SPACING
ROOF	1/2"	32/16	10d AT 6" O.C.	10d AT 12" O.C.

WHERE PLYWOOD IS ATTACHED TO WOOD FRAMING MEMBERS, USE 8D COMMON NAILS AT THE SPACING SHOWN IN THE TABLE ABOVE.

WHERE PLYWOOD IS TO BE ATTACHED TO STRUCTURAL HOT ROLLED STEEL MEMBERS, USE HILTI X DNI POWDER DRIVEN FASTENERS INSTALLED THROUGH 2" DIA WASHERS PER I.C.C. REPORT NUMBER ER 1663. SPACING SHALL BE AS NOTED ABOVE

ALTERNATE:

AMERICAN PLYWOOD ASSOCIATION PERFORMANCE RATED SHEATHING MAY BE USED AS AN ALTERNATE TO PLYWOOD WITH PRIOR APPROVAL OF OWNER, ARCHITECT AND ROOFING CONTRACTOR. WHERE ROOF IS TO BE GUARANTEED, IT MAY NOT BE USED WITHOUT PRIOR APPROVAL FROM BUILT-UP ROOF SYSTEM MANUFACTURER. RATED SHEATHING SHALL COMPLY WITH I.C.C. REPORT NO. NER-108, EXPOSURE 1, AND SHALL HAVE A SPAN RATING EQUIVALENT TO OR BETTER THAN THE PLYWOOD IT REPLACES. ATTACHMENT AND THICKNESS (WITHIN 1/32") SHALL BE THE SAME AS THE PLYWOOD IT REPLACES. INSTALL PER MANUFACTURERS RECOMMENDATIONS.

GENERAL:

DO NOT NOTCH OR DRILL JOISTS, BEAMS OR LOAD BEARING STUDS WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER THRU THE ARCHITECT. DOUBLE UP FLOOR JOISTS AND BLOCKING UNDER PARTITIONS. PROVIDE 2" SOLID BLOCKING AT SUPPORTS OF ALL JOISTS. DOUBLE UP STUDS AT JAMBS AND AS REQUIRED UNDER BEAMS IN BEARING WALLS. EVERY OTHER STUD OF WOOD FRAME BEARING WALL SHALL HAVE A SIMPSON H3 ANCHOR TOP AND BOTTOM, EXCEPT AT THOSE WALLS WHERE PLYWOOD SHEATHING IS NAILED DIRECTLY TO THE TOP AND BOTTOM PLATES. PROVIDE 2 X SOLID BLOCKING AT MID-HEIGHT OF BEARING STUD WALLS. ALL NAILING NOT NOTED SHALL BE ACCORDING TO TABLE 2304.9.1 OF THE INTERNATIONAL BUILDING CODE. WOOD CONNECTORS SHALL BE AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, INC. OR OTHER MANUFACTURER WITH CURRENT AND EQUIVALENT I.C.C. APPROVAL.

POST-INSTALLED ANCHORS

1. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER-OF-RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REBAR. HOLES SHALL BE DRILLED AND CLEANED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW, SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER-OF-RECORD ALONG WITH CALCULATIONS THAT ARE PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERTINENT EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE.

a. CONCRETE ANCHORS

i. **MECHANICAL ANCHORS** SHALL HAVE BEEN TESTED AND QUALFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193 FOR CRACKED AND UNCRACKED CONCRETE RECOGNITION. PRE-APPROVED MECHANICAL ANCHORS INCLUDE:
(1) SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-2713) OR EQUAL
(2) SIMPSON STRONG-TIE "STRONG-BOLT 2" (ICC-ES ESR-3037) OR EQUAL
(3) SIMPSON STRONG-TIE "STRONG-BOLT" (ICC-ES ESR-1771) OR EQUAL

ii. **ADHESIVE ANCHORS** SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC308 FOR CRACKED AND UNCRACKED CONCRETE RECOGNITION. PRE-APPROVED ADHESIVE ANCHORS INCLUDE:
(1) SIMPSON STRONG-TIE "SET-XP" (ICC-ES ESR-2508) OR EQUAL

DEFERRED SUBMITTALS: (PER 2018 IBC CH. 17)

THE DESIGN OF THE FOLLOWING ITEMS SHALL BE PROVIDED AS "DEFERRED SUBMITTAL" ITEMS IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE SECTION 106.3.4.2.

PREFABRICATED METAL AWNINGS

THE DESIGN OF THE ITEMS LISTED SHALL BE SUBMITTED BY THE CONTRACTOR TO THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE WHO WILL REVIEW THE DOCUMENTS. THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE SHALL PROVIDE NOTATION ON THE DOCUMENTS AFTER THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. UPON ACCEPTANCE BY THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE, THE CONTRACTOR SHALL SUBMIT THE DOCUMENTS TO THE BUILDING OFFICIAL. DO NOT INSTALL ANY DEFERRED SUBMITTAL ITEMS UNTIL THE DESIGN HAS BEEN ACCEPTED BY THE BUILDING OFFICIAL

SHOP DRAWINGS:

THE CONTRACTOR SHALL REVIEW AND SUBMIT SHOP DRAWINGS FOR ALL STRUCTURAL ITEMS IN ADDITION TO ALL ARCHITECTURAL REQUIREMENTS.
THE MANUFACTURER, CONTRACTOR OR FABRICATOR SHALL CLOUD ALL ITEMS IN THE SHOP DRAWINGS THAT DIFFER FROM THE DETAILS AND DESIGN INTENT ILLUSTRATED IN THE CONTRACT DOCUMENTS. THOSE ITEMS SHALL NOT BE ASSUMED TO BE ACCEPTED UNLESS SPECIFICALLY NOTED IN WRITING BY THE STRUCTURAL ENGINEER. THE ENGINEER HAS THE RIGHT TO APPROVE OR DISAPPROVE ANY CHANGES TO CONTRACT DOCUMENTS AT ANYTIME BEFORE OR AFTER SHOP DRAWING REVIEW.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE CONSTRUCTION IS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE SHOP DRAWING REVIEW BY THE STRUCTURAL ENGINEER IS INTENDED AS AN AID TO THE CONTRACTOR ONLY AND CORRECTNESS OF THE SHOP DRAWINGS LIES SOLELY WITH THE CONTRACTOR. IN NO CASE SHALL THE SHOP DRAWINGS REPLACE THE CONTRACT DOCUMENTS. ITEMS THAT HAVE BEEN INCORRECTLY SHOWN ON THE SHOP DRAWINGS OR DIFFER FROM THE CONTRACT DOCUMENTS AND HAVE NOT BEEN NOTED BY THE STRUCTURAL ENGINEER OR ARCHITECT, SHALL NOT BE THE RESPONSIBILITY OF THE ENGINEER. THE ENGINEER SHALL BE ALLOWED TO, AT ANY TIME DURING OR AFTER THE SHOP DRAWING REVIEW, CHOOSE TO ALLOW OR NOT ALLOW CHANGES TO THE CONTRACT DOCUMENTS.

THE DRAWINGS IN THE CONSTRUCTION DOCUMENTS SHALL NOT BE USED FOR SHOP DRAWINGS IN ANY WAY, SHAPE, OR FORM.

THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY DIMENSIONS. THE CORRECTNESS OF ALL DIMENSIONS RESTS WITH THE CONTRACTOR AND SHALL BE VERIFIED WITH THE ARCHITECT.

ALL LAYOUTS AND DESIGNS PERFORMED BY OTHERS SHALL BE SEALED BY A CIVIL OR STRUCTURAL ENGINEER REGISTERED IN THE STATE IN WHICH THE WORK TAKES PLACE.

GENERAL:

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2021 INTERNATIONAL BUILDING CODE. THE STRUCTURAL DRAWINGS ARE NOT INTENDED TO REPRESENT MEANS OR METHODS OF CONSTRUCTION. THE STRUCTURAL DRAWINGS ARE INTENDED TO REPRESENT THE FINISHED PRODUCT WITH RESPECT TO THE STRUCTURAL ELEMENTS. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. THE STRUCTURAL ENGINEER (INCLUDING SITE OBSERVATIONS AND VISITS) SHALL IN NO WAY BE RESPONSIBLE FOR CONSTRUCTION MEASURES INCLUDING BUT NOT LIMITED TO BRACING, SHORING, SUPPORT OF LOADS DUE TO CONSTRUCTION EQUIPMENT, TEMPORARY CONSTRUCTION, ETC. THE STRUCTURAL ENGINEER (INCLUDING SITE OBSERVATIONS AND VISITS) SHALL IN NO WAY BE RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES, SEQUENCES FOR PROCEDURE OF CONSTRUCTION, OR THE SAFETY PRECAUTIONS AND THE PROGRAMS INCIDENTAL TO CONSTRUCTION.

CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE STRUCTURAL DRAWINGS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DRAWINGS. ALL DISCREPANCIES SHALL BE RESOLVED IN WRITING PRIOR TO THE START OF CONSTRUCTION.

ALL EXTERIOR CONCRETE SLABS ON GRADE SUCH AS SIDEWALKS, DRIVEWAYS, ETC. SHALL BE PER THE CIVIL AND ARCHITECTURAL DRAWINGS AND PER THE SOILS REPORT. THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR EXTERIOR SLABS ON GRADE.

CONSTRUCTION MATERIALS SHALL BE PLACED ON ABOVE GRADE FRAMING IN SUCH A WAY THAT WILL SPREAD THE LOADS SO AS NOT TO EXCEED THE LIVE LOADS STATED IN THE "LOADS" SECTION OF THE GENERAL STRUCTURAL NOTES.

PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY AND COORDINATE LOCATIONS AND INSTALLATION REQUIREMENTS FOR ITEMS INCLUDING BUT NOT LIMITED TO OPENINGS, EMBEDDED ITEMS, INSERTS, UNDERGROUND WORK, ETC. WITH ALL ARCHITECTURAL, PLUMBING, MECHANICAL, ELECTRICAL AND CIVIL DRAWINGS AND WITH THE APPROPRIATE TRADES FOR THOSE ITEMS. ALL DISCREPANCIES SHALL BE RESOLVED PRIOR TO CONSTRUCTION.

WHERE OPTIONS ARE NOTED IN THE CONTRACT DOCUMENTS, THEY ARE FOR THE CONTRACTOR'S CONVENIENCE. IF THE CONTRACTOR CHOOSES AN OPTION, THEY SHALL BE RESPONSIBLE FOR COORDINATING ALL DETAILS AND OTHER REQUIREMENTS NECESSARY TO THAT OPTION.

CONSTRUCTION SHALL CONFORM TO THE DETAILS SHOWN IN THE DRAWINGS. WHERE A DETAIL IS NOT SHOWN, THE WORK SHALL CONFORM TO SIMILAR CONSTRUCTION ON THE PROJECT. WHERE NOTES, DETAILS, GENERAL STRUCTURAL NOTES, ETC. CONFLICT, THE GREATEST REQUIREMENT SHALL GOVERN.

CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION. RESOLVE ANY DISCREPANCY WITH THE ARCHITECT.

DETAILS INDICATING MASONRY WALL CONSTRUCTION ARE SCHEMATIC ONLY. CONTRACTOR SHALL COORDINATE EXACT MASONRY COURSES, DIMENSIONS, AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS.

TYPICAL DETAILS MAY NOT NECESSARILY BE CUT ON PLANS, BUT APPLY UNLESS NOTED OTHERWISE.

SPECIAL INSPECTIONS

SPECIAL INSPECTIONS SHALL BE PER IBC SECTION 1704 AND SHALL BE PERFORMED FOR THE FOLLOWING ITEMS:

1. **GRADING AND EXCAVATION:** SHALL BE INSPECTED AS REQUIRED BY THE GEOTECHNICAL REPORT. STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY GRADING OR EXCAVATION INSPECTIONS.
2. **CONCRETE:** SHALL BE INSPECTED DURING THE TAKING OF TEST SPECIMENS AND DURING PLACEMENT.
3. **BOLTS IN CONCRETE:** (CONTINUOUS) SHALL BE INSPECTED DURING THE PLACEMENT OF CONCRETE AROUND THE BOLTS
4. **POST INSTALLED ANCHORS:** (CONTINUOUS) SHALL BE INSPECTED DURING THE PLACEMENT OF MECHANICAL ANCHORS TO ENSURE PROPER TIGHTENING AND DURING THE INSTALLATION OF ADHESIVE ANCHORS IN ACCORDANCE WITH THE MANUFACTURERS REQUIREMENTS.
5. **REINFORCING STEEL:** (PERIODIC) SHALL BE INSPECTED DURING PLACEMENT OF THE REINFORCING STEEL PLACED FOR CONCRETE REQUIRING SPECIAL INSPECTION AS NOTED ABOVE. THE REINFORCING STEEL SHALL BE INSPECTED PRIOR TO ORDERING AND PLACING CONCRETE.

THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR COMPLIANCE WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE ENGINEER OR ARCHITECT OF RECORD. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR. THE CONTRACTOR SHALL THEN CORRECT THE WORK AS REQUIRED. IF THE WORK PROCEEDS UNCORRECTED THE SPECIAL INSPECTOR SHALL BRING THE DISCREPANCIES TO THE IMMEDIATE ATTENTION OF THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AND THE BUILDING OFFICIAL.

THE RESPONSIBLE PARTY PERFORMING THE INSPECTIONS SHALL SUBMIT THE APPROPRIATE FINAL INSPECTION FORMS TO THE BUILDING OFFICIAL UPON COMPLETION OF THE WORK.
THE STRUCTURAL ENGINEER OF RECORD SHALL NOT BE RESPONSIBLE FOR INSPECTIONS PERFORMED BY OTHER PARTIES NOT DIRECTLY EMPLOYED BY THE STRUCTURAL ENGINEER OF RECORD.

ABBREVIATIONS

A.B.C.	AGGREGATE BASE COURSE	C.M.U.	CONCRETE MASONRY UNIT
A/C	AIR CONDITIONER	CONN	CONNECTION
A.F.F.	ABOVE FINISHED FLOOR	CONT	CONTINUOUS
ALT.	ALTERNATE	DEG	DEGREE
A.B.	ANCHOR BOLT	D.L.	DEAD LOAD
@ AT	(MEASUREMENT)	⌀OR DIA.	DIAMETER
BM	BEAM	DN	DOWN
B.F.F	BELOW FINISHED FLOOR	DWG(S)	DRAWING(S)
B.O.B.	BOTTOM OF BEAM	E.O.S.	EDGE OF SLAB
B.O.D.	BOTTOM OF DECK	EQ	EQUAL
B.O.F.	BOTTOM OF FOOTING	EQUIP	EQUIPMENT
BRG	BEARING	EXP. BOLT	EXPANSION BOLT
C.I.P.	CAST IN PLACE	EXP. JT (E.J.)	EXPANSION JOINT
C.L.	CENTERLINE	E.W.	EACH WAY
C.L.B.	CENTERLINE OF BEAM	F.F.	FINISHED FLOOR
C.L.C.	CENTERLINE OF COLUMN	F.O.M.	FACE OF MEMBER
C.L.F.	CENTERLINE OF FOOTING	F.O.S.	FACE OF STEEL
C.L.L.	CENTERLINE OF LEDGER	F.O.W.	FACE OF WALL
C.L.W.	CENTERLINE OF WALL	GA	GAGE
CLR	CLEAR	GALV	GALVANIZED
CONC	CONCRETE	G.S.N.	GENERAL STRUCT'L NOTES
CONC C.J.	CONCRETE CONTROL JOINT	GLB (GLULAM)	GLUED-LAMINATED BEAM
CONC S.J.	CONCRETE SAWCUT JOINT	I.F.W.	INSIDE FACE OF WALL
HORIZ	HORIZONTAL	SLH	SHORT LEG HORIZONTAL
K(KIP)	1000 POUNDS	SLV	SHORT LEG VERTICAL
L.L.	LIVE LOAD	SIM	SIMILAR
LBS	(#) POUNDS	SQ.	SQUARE
LLH	LONG LEG HORIZONTAL	STD	STANDARD
LLV	LONG LEG VERTICAL	T.L.	TOTAL LOAD
LSH	LONG SIDE HORIZONTAL	T.O.B.	TOP OF BEAM
LSV	LONG SIDE VERTICAL	T.O.D.	TOP OF DECK
MFR(S)	MANUFACTURER(S)	T.O.F.	TOP OF FOOTING
MAS C.J.	MASONRY CONTROL JOINT	T.O.L.	TOP OF LEDGER
MECH'L	MECHANICAL	T.O.M.	TOP OF MASONRY
MLB	MICROLLAM BEAM	T.O.P.	TOP OF PLATE
N/A	NOT APPLICABLE	T.O.S.	TOP OF STEEL
N.T.S.	NOT TO SCALE	T.O.W.	TOP OF WALL
O.C.	ON CENTER	TYP	TYPICAL
O.F.W.	OUTSIDE FACE OF WALL	U.N.O.	UNLESS NOTED OTHERWISE
OPP	OPPOSITE	VERT	VERTICAL
P.C.	PRECAST CONCRETE	W.W.F.	WELDED WIRE FABRIC
PLF	POUNDS PER LINEAR FOOT	W/	WITH
PREFAB	PREFABRICATED	W/O	WITHOUT
PSF	POUNDS PER SQUARE FOOT		
PSI	POUNDS PER SQUARE INCH		
REINF	REINFORCING		

FOR ADDITIONAL INFORMATION SHOWN BUT NOT NOTED, SEE GENERAL STRUCTURAL NOTES ON SHEET S1.1 AND TYPICAL DETAIL SHEETS.

THESE DRAWINGS/CALCULATIONS ARE CONSIDERED PRELIMINARY –NOT FOR CONSTRUCTION OR RECORDING UNLESS THE STRUCTURAL ENGINEER OF RECORD'S SEAL IS AFFIXED WITH WRITTEN SIGNATURE.

PROJECT NUMBER	25–0290	PROJECT MANAGER	RAD
PROJECT ENGINEER	RAD	PROJECT DRAFTER	JLG

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TEMPE, ARIZONA 85281
CERTIFICATION # C-1669

04-03-25

SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY

TITLE:

GENERAL STRUCTURAL NOTES

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

KIOSK PROTOTYPE:
4.2 REVERSE PROTOTYPE
JUNE 2024

ISSUE DATE:
03/21/2025

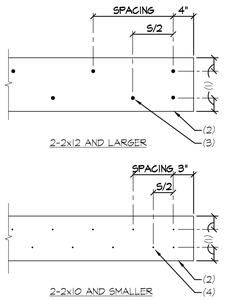
PROJECT NO.
240761

DRAWN BY:

CHECKED BY:

SHEET NO.

S1.1



NOTES:
1. 1/4 DEPTH OF MEMBER - TYPICAL.
2. FRAMING MEMBER.
3. 1/2" DIA MIN BOLTS AT 24" O.C. STAGGERED.
4. 16d NAILS MIN AT 12" O.C. STAGGERED.

NOTE: INSTALL 2 CONNECTORS AT END AS SHOWN.

10 BUILT UP WOOD MEMBERS

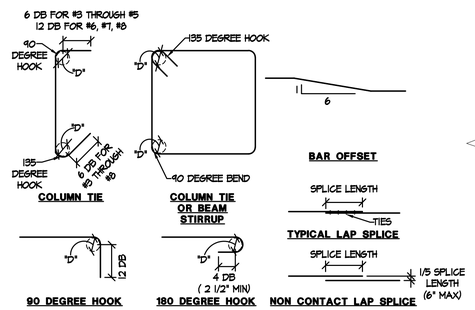
NOT TO SCALE

CONNECTION	NAILING
JOIST TO ALL SILL OR GIRDER, TOE NAIL	3 - 16d
BRIDGING TO JOIST, TOE NAIL EACH END	2 - 8d
SOLE PLATE TO JOIST OR BLOCKING	16d AT 16" O.C.
STUD TO SOLE PLATE, TOE NAIL	4 - 8d, TOENAIL OR 2 - 16d ENDNAIL
DOUBLED STUDS, FACE NAIL	16d AT 30" O.C.
DOUBLED TOP PLATE, FACE NAIL	16d AT 30" O.C.
TOP PLATE, LAPS AND INTERSECTIONS, FACE NAIL	16d AT 24" O.C.
CONTINUOUS HEADER, TWO PIECES	16d AT 16" O.C. ALONG EACH EDGE
CEILING JOISTS TO PLATE, TOENAIL	3 - 8d
CONTINUOUS HEADER TO STUDS, TOENAIL	4 - 8d
CEILING JOISTS OVER LAPS PARTITIONS , FACE NAIL	3 - 16d
CEILING JOISTS PARALLEL RAFTERS , FACE NAIL	3 - 16d
RAFTER TO PLATE	3 - 8d
BUILT-UP CORNER ONLY	16d AT 24" O.C.

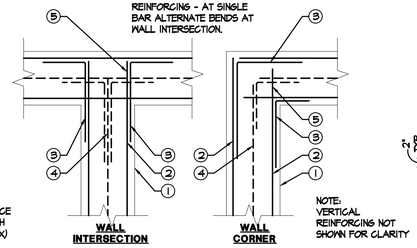
NOTE: COMMON NAILS ONLY.

08 NAILING SCHEDULE

NOT TO SCALE



NOTES:
1. CONCRETE WALL (STEM AS OCCURS).
2. HORIZONTAL REINFORCING.
3. CORNER BARS TO MATCH & LAP HORIZONTAL REINFORCING - AT SINGLE BAR ALTERNATE BENDS AT WALL INTERSECTION.
4. SINGLE MAT OF BARS AS OCCURS.
5. EXTEND TO OPPOSITE FACE OF WALL.

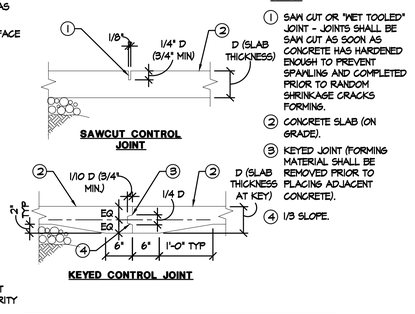


NOTE: VERTICAL REINFORCING NOT SHOWN FOR CLARITY

04 PLAN - CORNER REINFORCING IN CONCRETE WALL AND STEM

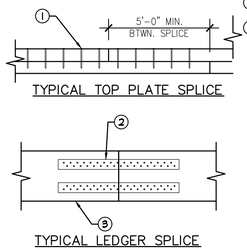
NOT TO SCALE

NOTES:
1. SAW CUT OR "WET TOOLED" JOINT - JOINTS SHALL BE SAW CUT AS SOON AS CONCRETE HAS HARDENED ENOUGH TO PREVENT SPALLING AND COMPLETED PRIOR TO RANDOM SHRINKAGE CRACKS FORMING.
2. CONCRETE SLAB (ON GRADE).
3. KEYED JOINT (FORMING MATERIAL SHALL BE REMOVED PRIOR TO PLACING ADJACENT CONCRETE).
4. 1/8 SLOPE.



01 CONTROL JOINT IN CONCRETE SLAB

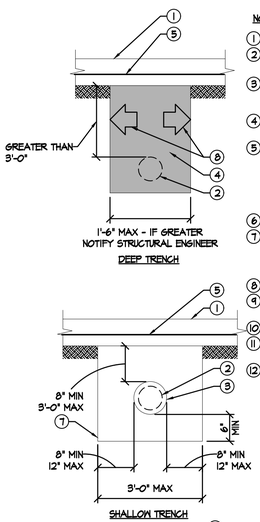
NOT TO SCALE



NOTES:
1. (2) 8d NAILS @ 4" O.C. (16 TOTAL EA. SIDE OF SPLICE)
2. (2) MST126 CENTERED ON SPLICE
3. LEDGER

11 TYPICAL SPLICE DETAILS

NOT TO SCALE



NOTES:
1. CONCRETE FOOTING.
2. UTILITY PIPE/CONDUIT (8" DIA. MAX).
3. SLEEVE TO BE ABLE TO MAINTAIN 1" CLR ALL AROUND PIPE.
4. BACKFILL TRENCH PER SOILS REPORT.
5. ADDITIONAL #5 BARS AT 6" O.C. CENTERED OVER TRENCH (3 BARS MINIMUM) LENGTH TO EXTEND 4'-0" BEYOND TRENCH WALL BOTH SIDES.
6. STEM WALL.
7. 2500 PSI CONCRETE FILL TO BE PLACED PRIOR TO PLACING FOOTING - MATCH WIDTH OF FOOTING.
8. SHORING BY CONTRACTOR.
9. 4"x4" W1.4xW1.4 WWF. OR #4 AT 12" O.C.
10. PIPE OR CONDUIT SLEEVE.
11. UNIFORM SLAB THICKNESS AS SHOWN ON PLANS.
12. (2) #5 x 4'-0" LONG.

09 UTILITIES AT CONCRETE FOOTING OR STEM WALL

NOT TO SCALE

END HOOK SCHEDULE		
BAR SIZE	BAR DIAMETER "DB"	BEND DIAMETER "D"
#3	3/8"	2 1/4"
#4	1/2"	3"
#5	5/8"	3 3/4"
#6	3/4"	4 1/2"
#7	7/8"	5 1/4"
#8	1"	6"
#9	1 1/8"	9 1/2"
#10	1 1/4"	10 3/4"
#11	1 3/4"	18 1/4"
#18	2 1/4"	24"

STIRRUPS AND TIES SCHEDULE		
BAR SIZE	BAR DIAMETER "DB"	BEND DIAMETER "D"
#3	3/8"	1 1/2"
#4	1/2"	2"
#5	5/8"	2 1/2"
#6	3/4"	4 1/2"
#7	7/8"	5 1/4"
#8	1"	6"

06 REINFORCING BENDS AND HOOKS

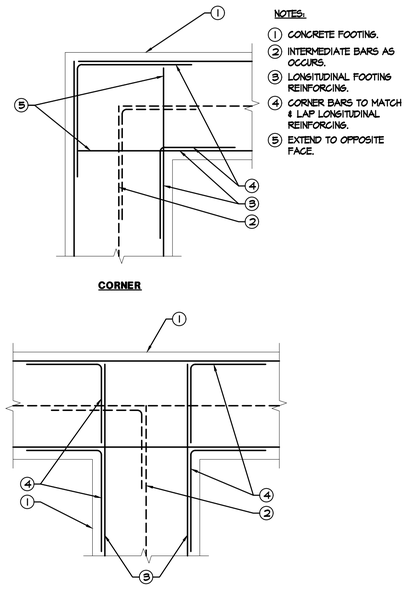
NOT TO SCALE

CLASS "B" TENSION LAP SPLICE SCHEDULE					
BAR SIZE	CONCRETE STRENGTH / BAR PLACEMENT	2500 OR 3000	4000	5000	6000
#3	TOP	29	25	22	21
	OTHER	22	19	17	16
#4	TOP	38	33	29	26
	OTHER	29	25	22	20
#5	TOP	47	40	37	34
	OTHER	36	31	28	26
#6	TOP	56	48	43	39
	OTHER	43	37	33	30
#7	TOP	81	70	63	57
	OTHER	62	54	48	44
#8	TOP	92	81	72	66
	OTHER	71	62	55	51
#9	TOP	104	91	81	74
	OTHER	80	70	62	57
#10	TOP	116	100	90	82
	OTHER	89	77	69	63
#11	TOP	128	111	99	91
	OTHER	98	85	76	70

NOTES:
1. THIS SCHEDULE SHALL ONLY BE USED WHERE BOTH OF THE FOLLOWING CONDITIONS ARE MET:
   A. CLEAR SPACING OF BARS IS GREATER THAN 3 BAR DIAMETERS
   B. CLEAR COVER OF BARS IS GREATER THAN 1 BAR DIAMETER.
   WHERE THE ABOVE CONDITIONS ARE NOT MET, CONTACT THE STRUCTURAL ENGINEER.
2. THIS SCHEDULE SHALL ONLY BE USED FOR UNCOATED, DEFORMED GRADE 60 REINFORCING STEEL.
3. THIS SCHEDULE SHALL NOT BE USED FOR BUNDLED BARS.
4. ALL SPLICES SHALL BE MADE BY CONTACT TYPE LAP SPLICES AND SHALL BE CLASS "B" AS DEFINED BY THE LATEST EDITION OF ACI 318.
5. #14 AND #18 BARS SHALL NOT BE SPLICED BY TENSION LAP SPLICES.
6. ALL DETAILING SHALL BE PER THE LATEST EDITION OF ACI 318 CODE AND COMMENTARY AND BY THE CRSI DETAILING HANDBOOK.
7. TOP BARS SHALL BE DEFINED AS BARS PLACED SUCH THAT 12" OR MORE OF FRESH CONCRETE IS PLACED BELOW THE BAR.
8. THIS SCHEDULE SHALL BE USED ONLY FOR NORMAL WEIGHT CONCRETE.

05 CONCRETE REINFORCING SCHEDULE

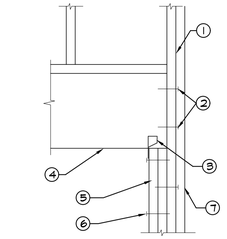
NOT TO SCALE



NOTES:
1. CONCRETE FOOTING.
2. INTERMEDIATE BARS AS OCCURS.
3. LONGITUDINAL FOOTING REINFORCING.
4. CORNER BARS TO MATCH & LAP LONGITUDINAL REINFORCING.
5. EXTEND TO OPPOSITE FACE.

02 PLAN - REINFORCING AT FOOTING - INTERSECTIONS

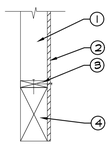
NOT TO SCALE



NOTES:
1. WOOD STUDS
2. 2 - 16d AT BEAM
3. SIMPSON H2.5 EACH SIDE OF BEAM
4. WOOD BEAM.
5. 2 STUDS UNDER BEAM.
6. 16d AT 12" O.C. STAGGERED.
7. DOUBLE FULL HEIGHT JAMB STUD AT OPENINGS UP TO 4'-0" WIDE TRIPLE FULL HEIGHT JAMB STUDS AT OPENINGS UP TO 8'-0", FOUR FULL HEIGHT JAMBS STUDS AT OPENINGS UP TO 12'-0".

12 WOOD BEAM IN STUD WALL

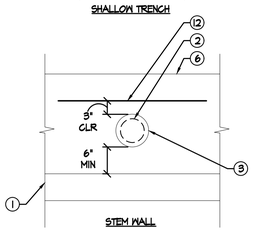
NOT TO SCALE

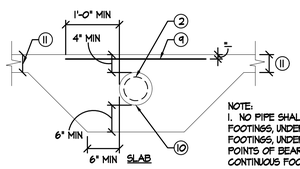


NOTES:
1. 2x AT 16" O.C.
2. 3/8" PLYWOOD WITH 8d AT 6" O.C.
3. 2x CONTINUOUS WITH 16d AT 12" O.C.
4. WOOD BEAM.

13 WOOD STUD WALL AT WOOD BEAM

NOT TO SCALE

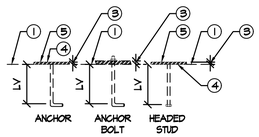




NOTE:
1. NO PIPE SHALL PASS THRU FOOTINGS, UNDER COLUMN FOOTINGS, UNDER MAJOR POINTS OF BEARING AT A CONTINUOUS FOOTING, OR THRU ANY STEEL REINFORCING BARS.
2. CONTRACTOR TO CONTACT STRUCTURAL ENGINEER BEFORE PASSING ANY PIPES IN QUESTIONABLE AREAS.

ANCHOR SIZE	HORIZONTAL CAST EMBEDMENT (LH)	VERTICAL CAST EMBEDMENT (LV)
3/8"	5"	7"
1/2"	5"	8"
5/8"	5"	8"
3/4"	5"	8"
7/8"	5"	8"
1"	5"	9"
1 1/4"	5"	12"
1 1/2"	5"	12"

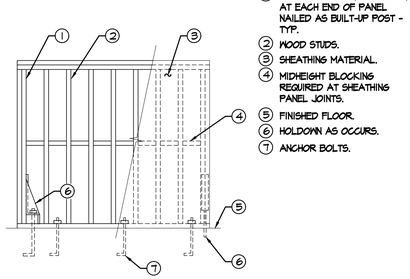
NOTES:
1. TOP OF CONCRETE OR MASONRY.
2. FACE OF CONCRETE OR MASONRY.
3. THICKNESS OF MEMBER BEING ATTACHED - INCLUDING DRYPACK AS OCCURS.
4. STEEL PLATE CHANNEL, ANGLE ETC... AS OCCURS.
5. TOP OF CONCRETE AS OCCURS.
6. FACE OF CONCRETE AS OCCURS.



NOTE:
ALL ADHESIVE AND EXPANSION CONNECTIONS REQUIRE EVALUATION BY STRUCTURAL ENGINEER PRIOR TO PLACEMENT

07 ANCHOR AND ANCHOR BOLT EMBEDMENTS

NOT TO SCALE



NOTES:
1. MULTIPLE STUDS (MIN 2 U.N.O.) AT EACH END OF PANEL. NAILED AS BUILT-UP POST - TYP.
2. WOOD STUDS.
3. SHEATHING MATERIAL.
4. MIDHEIGHT BLOCKING REQUIRED AT SHEATHING PANEL JOINTS.
5. FINISHED FLOOR.
6. HOLDOWN AS OCCURS.
7. ANCHOR BOLTS.

03 ONE-STORY SHEAR WALL ELEVATION

NOT TO SCALE

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PROJECT ENGINEER	RAD	PROJECT DRAFTER	JLG

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CERTIFICATION # C-1669

04-03-25

SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY

TITLE:

TYPICAL DETAILS

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

KIOSK PROTOTYPE:
4.2 REVERSE PROTOTYPE
JUNE 2024

ISSUE DATE:
03/21/2025

PROJECT NO.
240761

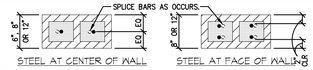
DRAWN BY:

CHECKED BY:

SHEET NO.

S1.2

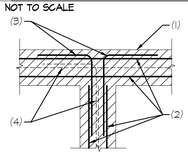
REBAR SIZE (METRIC)	REBAR GRADE	MASONRY LAP SPLICE LENGTH				
		STEEL AT CENTER OF WALL			STEEL AT FACE OF WALL (& BOND BEAMS)	
		6" BLK	8" BLK	12" BLK	8" BLK	12" BLK
#4 (13)	40	20"	20"	20"	20"	20"
#4 (13)	60	26"	26"	26"	26"	26"
#5 (16)	60	32"	32"	32"	32"	32"
#6 (19)	60	N/A	39"	39"	39"	39"
#7 (22)	60	N/A	45"	45"	N/A	45"
#8 (25)	60	N/A	N/A	52"	N/A	52"



NOTES:
1. LAPS APPLY TO BOTH VERTICAL AND HORIZONTAL REINFORCING.
2. PROVIDE BENT BARS TO MATCH HORIZONTAL BOND BEAM REINFORCING, AT CORNERS AND WALL INTERSECTION TO MAINTAIN BOND BEAM CONTINUITY.
3. DO NOT SPLICE HORIZONTAL BARS WITHIN 8'-0" OF CONTROL JOINTS.
4. FOR LADDER TYPE HORIZONTAL REINFORCING, SEE G.S.N.
5. LAP LENGTHS ARE BASED ON A CALCULATED STEEL STRESS (fs) NOT EXCEEDING 80 PERCENT OF THE ALLOWABLE STEEL STRESS (Fs).

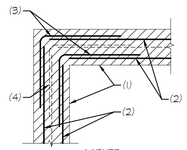
19 ALLOWABLE STRESS MASONRY LAP SPLICES FOR REINFORCING STEEL

NOT TO SCALE



INTERSECTION

NOTES:
1. MASONRY WALL.
2. BOND BEAM REINFORCING.
3. CORNER BARS SAME SIZE AND SPACING AS HORIZONTAL REINFORCING - LAP PER TYPICAL DETAIL (24" MINIMUM).
4. SINGLE BAR REINFORCING WHERE OCCURS. ALTERNATE BEND OF CORNER BARS AT INTERSECTION.



CORNER

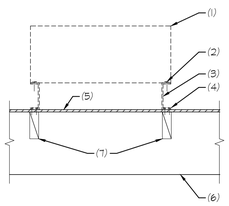
NOTE:
SEE TYPICAL DETAIL FOR NON-TOOTHED ABUTTING WALLS AS OCCURS.

20 MASONRY BOND BEAM AT INTERSECTING WALLS

NOT TO SCALE

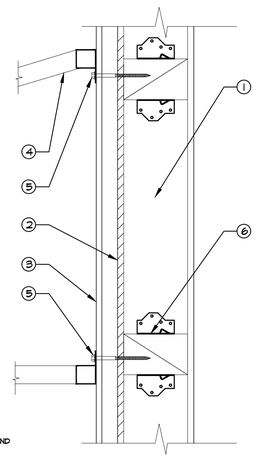
	SCREW #1 SELF TAPPING	SCREW #2 WOOD SCREW
RTU	#10 AT 12" O.C. ALL AROUND	#10x2 1/2" AT 28" O.C. ALL AROUND

NOTES:
1. MECH'L UNIT BY OTHERS.
2. SCREW #1 (PER TABLE BELOW) ALL AROUND UNIT.
3. CURB BY OTHERS.
4. SCREW #2 (PER TABLE BELOW) ALL AROUND UNIT.
5. PLYWOOD SHEATHING.
6. WOOD JOIST.
7. 2x6 BLOCKING (2x12 AT CUT JOISTS PER DETAIL 16/S13.) WITH LUS HANGER AT EACH END - TYP. UNDER CURBS.



21 MECH'L EQUIPMENT TO ROOF FRAMING

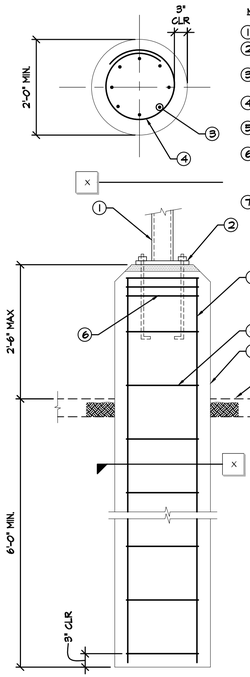
NOT TO SCALE



NOTES:
1. WOOD STUD WALL
2. PLYWOOD SHEATHING
3. RAINSCREEN W/ 3/4" GAP BEHIND
4. CANOPY (BY OTHERS)
5. SIMPSON SDS25300 SCREWS AT EACH CONNECTION T4B INTO SOLID BLOCKING
6. 3x SOLID BLOCKING W/ SIMPSON A34 TOP AND BOTTOM AT EA. END

17 FABRIC CANOPY ATTACHMENT

NOT TO SCALE

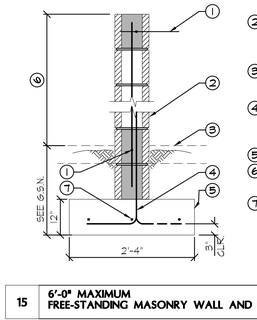


NOTES:
1. LIGHT POLE BY OTHERS.
2. LIGHT POLE BASE & ATTACHMENT BY OTHERS.
3. (8) #6 BARS EQUALLY SPACED ALL AROUND.
4. #3 TIES AT 12" O.C. VERTICALLY.
5. CONCRETE POLE FOOTING.
6. (3) #3 TIES IN TOP AND BOTTOM 5" OF CONCRETE BASE POLE FOOTING.
7. FINISHED GRADE OR SLAB AS OCCURS.

NOTE:
FOOTING DESIGN FOR 25'-0" MAXIMUM FLAG POLE HEIGHT

14 FLAGPOLE FOOTING

NOT TO SCALE

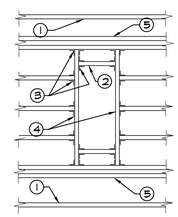


NOTES:
1. (1) #5 CONTINUOUS IN 8" DEEP GROUTED BOND BEAM.
2. 8" MASONRY WALL WITH #5 VERTICALS AT 40" O.C. GROUT SOLID BELOW GRADE.
3. FINISHED GRADE OR CONCRETE SLAB WHERE OCCURS.
4. DOWELS TO MATCH AND LAP VERTICAL WALL REINFORCING PER G.S.N. - ALTERNATE BENDS.
5. CONCRETE FOOTING.
6. FOR TOP OF WALL, SEE ARCHITECTURAL DRAWINGS - 6'-0" MAX.
7. (3) #4 CONTINUOUS.

NOTE:
- f'm = 1500 psi
- GROUT = 2000 psi
- MORTAR = 1800 psi
- PLACE VERTS AT ALL CORNERS

15 6'-0" MAXIMUM FREE-STANDING MASONRY WALL AND FOOTING

NOT TO SCALE



NOTES:
1. WOOD JOISTS.
2. 2X TRIMMERS AS REQUIRED.
3. USE JOIST HANGERS AT ALL CONNECTIONS.
4. 2X12 HEADER - WHEN MORE THAN 2 JOISTS ARE CUT USE DOUBLE 2X12 HEADERS.
5. THRU JOIST - SEE SCHEDULE.

EXTRA THRU JOIST SCHEDULES			
NUMBER OF CUT JOISTS	1	2	3
TOTAL NUMBER OF EXTRA THRU JOISTS	3	4	4

NOTE: REPLACE ALL CUT 2X JOISTS WITH THRU 2X JOISTS AT SIDES OF OPENING AS SHOWN. SEE SCHEDULE FOR NUMBER OF EXTRA JOISTS REQUIRED.

16 PLAN - TYPICAL WOOD FRAMING AT FRAMED OPENING

NOT TO SCALE

FOR ADDITIONAL INFORMATION SHOWN BUT NOT NOTED, SEE GENERAL STRUCTURAL NOTES ON SHEET S1.1 AND TYPICAL DETAIL SHEETS.

THESE DRAWINGS/CALCULATIONS ARE CONSIDERED PRELIMINARY -NOT FOR CONSTRUCTION OR RECORDING UNLESS THE STRUCTURAL ENGINEER OF RECORD'S SEAL IS AFFIXED WITH WRITTEN SIGNATURE.

PROJECT NUMBER	25-0290	PROJECT MANAGER	RAD
PROJECT ENGINEER	RAD	PROJECT DRAFTER	JLG

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REGISTRATION SEAL

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TEMPE, ARIZONA 85281
CERTIFICATION # C-1669

04-03-25

SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY

TITLE:

TYPICAL DETAILS

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

KIOSK PROTOTYPE:
4.2 REVERSE PROTOTYPE
JUNE 2024

ISSUE DATE:
03/21/2025

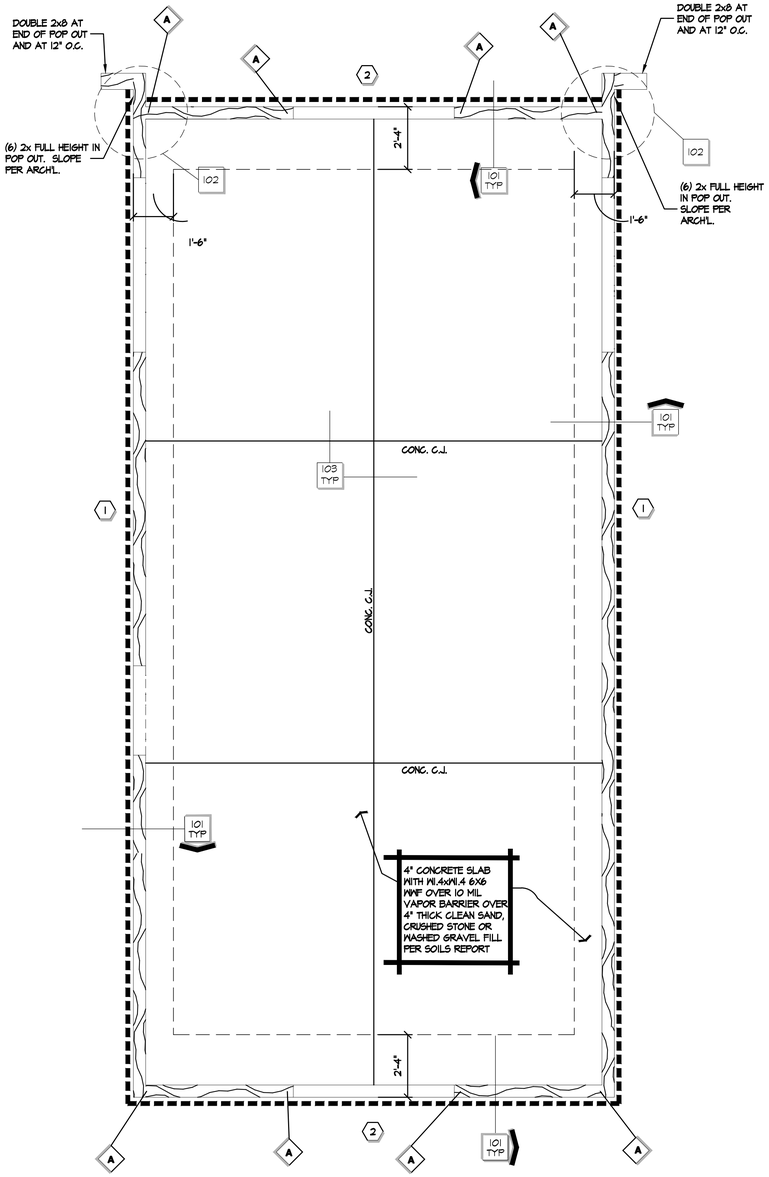
PROJECT NO.
240761

DRAWN BY:

CHECKED BY:

SHEET NO.

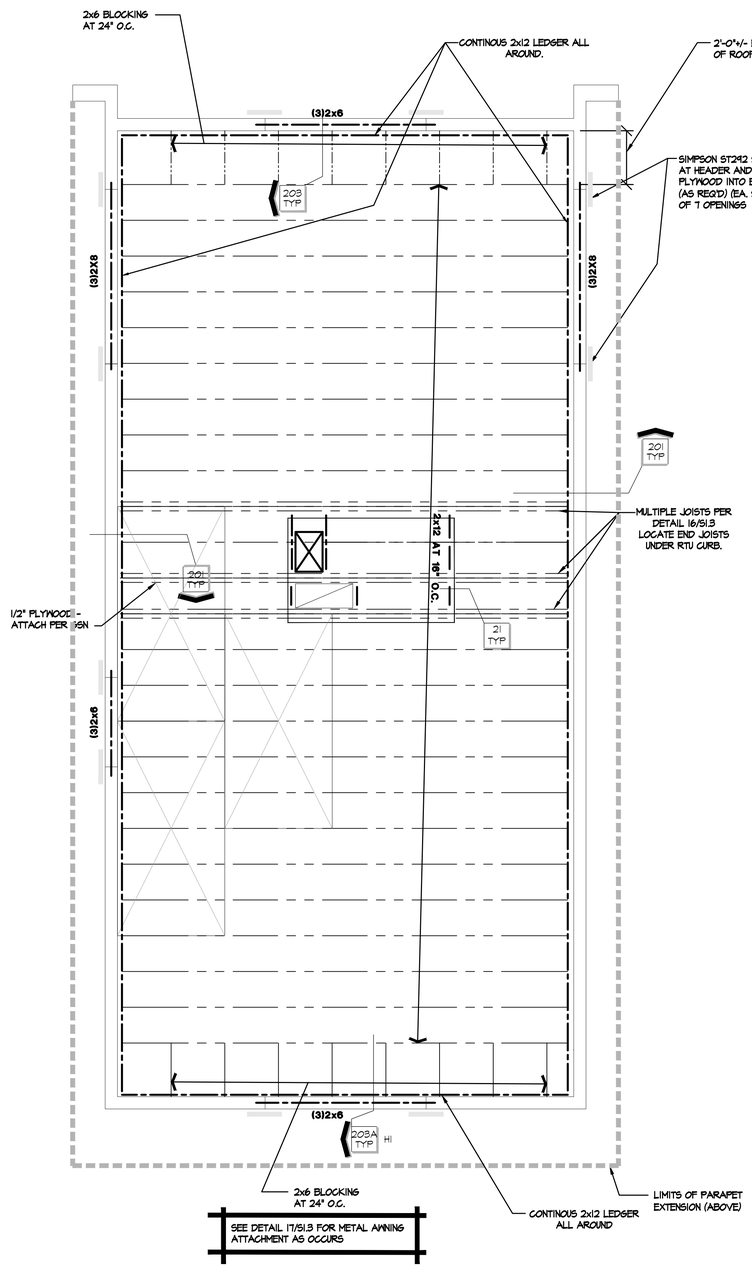
S1.3



FOUNDATION PLAN

3/8"=1'-0"

NORTH



ROOF FRAMING PLAN

3/8"=1'-0"

NORTH

WOOD SHEAR WALL AND HOLDOWN SCHEDULE

NOTES:
1. HOLDOWNS SHALL BE AS MANUFACTURED BY SIMPSON OR SHALL BE OF EQUIVALENT CAPACITY WITH A CURRENT ICC NUMBER.
2. REFER TO PLANS FOR HOLDOWN LOCATION.
3. FOR HOLDOWN ATTACHMENT SEE DETAIL G3 ON S1.2
4. ALL ANCHOR BOLTS SHALL BE PLACED AS SPECIFIED 6" MINIMUM TO 12" MAXIMUM FROM THE END OF WALL. THIS DOES NOT INCLUDE ANCHORS USED FOR HOLDOWNS.
5. REFER TO PLANS FOR SHEAR WALL LOCATIONS.
6. 1/2" DIA. HILTI KWIK BOLT TZ WEDGE ANCHORS (ICC #1917) WITH 6" EMBEDMENT MAY BE SUBSTITUTED FOR ANCHOR BOLTS AT INTERIOR WALLS ONLY.
7. WHERE WALLS ARE SHEATHED ON BOTH SIDES, PANEL JOINTS SHALL BE OFFSET TO FALL AN DIFFERENT FRAMING MEMBERS OR FRAMING SHALL BE 3" NOMINAL OR THICKER WITH NAILS STAGGERED ON EACH SIDE.
8. WHERE NAILS ARE SPACED AT 2" O.C. FRAMING SHALL BE 3" NOMINAL OR WIDER AND STAGGER NAILS.
9. WHERE 10d NAILS ARE SPACED AT 3" O.C. OR LESS, FRAMING SHALL BE 3" NOMINAL OR WIDER AND STAGGER NAILS.
10. SHEAR WALL SILL PLATES SHALL HAVE 3"x3"x3/16" STEEL PLATE WASHERS.

SHEAR WALL

MARK	SHEAR WALL MATERIAL AND ATTACHMENT	BLOCKED	SILL PLATE	SILL PLATE ATTACHMENT
1	3/8" APA STRUCT I SHEATHING WITH 8d NAILS AT 6" O.C. EDGES AND 6" O.C. FIELD	YES	2x	1/2" DIA. ANCHOR BOLTS AT 48" O.C.
2	3/8" APA STRUCT I SHEATHING WITH 8d NAILS AT 3" O.C. EDGES AND 6" O.C. FIELD	YES	2x	1/2" DIA. ANCHOR BOLTS AT 24" O.C.

HOLDOWNS

MARK	HOLDOWN	END POST	WALL ATTACHMENT	SILL / STEM ATTACHMENT
A	HDU11-SDS2.5	(3) 2xSTUDS OR 6x6	1/4" DIA x 2 1/2" SDS SCREWS FILL ALL HOLES	SEE DETAIL 10.4

FRAMING PLAN LEGEND AND NOTES

1. THE ROOF/FLOOR FRAMING PLAN SHALL NOT BE SCALED FOR ANY REASON. EXCEPT FOR JOIST LAYOUT AND SPACING, ANY DIMENSIONS SHOWN HAVE BEEN PROVIDED BY THE ARCHITECT AND ARE FOR ESTIMATING PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS SHOWN WITH THE ARCHITECTURAL DRAWINGS AND RESOLVE ANY DISCREPANCIES.
2. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ALL EQUIPMENT THAT WOULD IMPOSE ADDITIONAL LOADS TO THE ROOF FRAMING MEMBERS. EXACT WEIGHTS AND LOCATIONS OF ALL SUCH EQUIPMENT SHALL BE VERIFIED BY THE CONTRACTOR. RESOLVE ALL DISCREPANCIES PRIOR TO CONSTRUCTION. REFER TO THE TYPICAL DETAILS FOR MECHANICAL UNIT SUPPORTS AND OPENINGS.
3. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ALL OPENINGS REQUIRED AND THEIR EXACT LOCATIONS. IF AN OPENING IS REQUIRED FOR OTHER TRADES, BUT NOT SHOWN OF THE STRUCTURAL DRAWINGS, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND STRUCTURAL ENGINEER AND ALL DISCREPANCIES SHALL BE RESOLVED PRIOR TO CONSTRUCTION.
4. TYPICAL DETAILS ARE NOT NECESSARILY CUT ON THE PLAN BUT APPLY UNLESS NOTED OTHERWISE.
5. REFER TO THE GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS FOR ADDITIONAL INFORMATION.
6. WHERE A DETAIL IS NOT SPECIFICALLY CUT ON THE FRAMING PLAN, SIMILAR DETAILING SHALL APPLY.
7. CAMBER, DEAD LOAD DEFLECTIONS, BEAM AND JOIST TOLERANCES, ETC... MAY AFFECT CONCRETE OR ROOF TOPPING QUANTITY. THIS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ACCOUNT FOR THESE VARIATIONS.
8. PROVIDE 2 STUDS MIN. AT ALL BEAM AND GIRDER BEARING, TYPICAL U.N.O.
9. VERIFY EXACT SIZE, WEIGHT AND LOCATION OF EQUIPMENT AND SUPPORTS WITH ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS. FOR SUPPORT OF EQUIPMENT, SEE TYPICAL DETAILS AND OTHER TRADES.

DETAIL SHEET INDEX

SHEET	SHEET DESCRIPTION	DETAIL NUMBERS
S1.2	TYPICAL DETAILS	1-13
S1.3	TYPICAL DETAILS	14-18
S3.1	FOUNDATION DETAILS	101-102
S3.1	FRAMING DETAILS	201-203

PLAN LEGEND AND NOTES

2x6 AT 16" O.C. WOOD STUD WALL

LIMITS OF SHEAR WALL. SEE SCHEDULE FOR TYPE.

8 TYPE OF SHEAR WALL SHEATHING AND ATTACHMENT. SEE SHEAR WALL SCHEDULE ON THIS SHEET

- TYPE OF HOLDOWN. SEE HOLDOWN SCHEDULE ON THIS SHEET.

1. THE FOUNDATION PLAN SHALL NOT BE SCALED FOR ANY REASON. ANY DIMENSIONS SHOWN HAVE BEEN PROVIDED BY THE ARCHITECT AND ARE FOR ESTIMATING PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS SHOWN WITH THE ARCHITECTURAL DRAWINGS AND RESOLVE ANY DISCREPANCIES PRIOR TO CONSTRUCTION. VERIFY GRID LOCATION WITH ARCH'L DRAWINGS
2. THE CONTROL JOINTS SHALL NOT BE USED TO LOCATE STRUCTURAL ITEMS. REFER TO GENERAL NOTES FOR LOCATING CONTROL JOINTS
3. REFER TO ARCHITECTURAL, PLUMBING, ELECTRICAL AND CIVIL DRAWINGS FOR ALL UNDER SLAB CONSTRUCTION SUCH AS UTILITY TRENCHES, PIPES, CONDUIT, ETC... REFER TO TYPICAL DETAILS FOR STRUCTURAL REQUIREMENTS AT UTILITY TRENCHES, PIPES, CONDUIT ETC... WHERE CONSTRUCTION REQUIRED IS BEYOND THE SCOPE OF THE TYPICAL DETAILS, NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER AND RESOLVE ALL DISCREPANCIES PRIOR TO CONSTRUCTION. IN NO CASE SHALL ANY OTHER TRADES' CONSTRUCTION PASS THROUGH A FOOTING EITHER VERTICALLY OR HORIZONTALLY UNLESS SPECIFICALLY SHOWN ON STRUCTURAL DRAWINGS.
4. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DEPRESSED AND RAISED SLAB LOCATIONS.
5. REFER TO SOILS REPORT, CIVIL AND ARCHITECTURAL DRAWINGS FOR ALL EXTERIOR SLAB LOCATIONS AND CONSTRUCTION REQUIREMENTS.
6. WHERE A DETAIL IS NOT SPECIFICALLY CUT ON THE FOUNDATION PLAN, SIMILAR WORK SHALL APPLY.
7. REFER TO THE GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS FOR ADDITIONAL INFORMATION.

FOR ADDITIONAL INFORMATION SHOWN BUT NOT NOTED, SEE GENERAL STRUCTURAL NOTES ON SHEET S1.1 AND TYPICAL DETAIL SHEETS.

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TITLE:
FOUNDATION AND FRAMING PLAN

PROJECT ADDRESS:
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JUNE 2024

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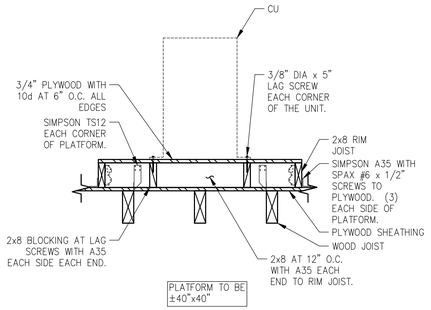
03/21/2025

PROJECT NO.
240761

DRAWN BY:

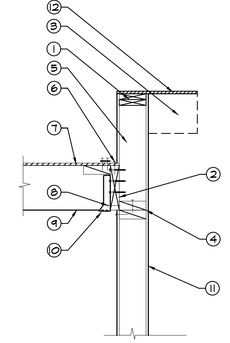
CHECKED BY:

SHEET NO.
S2.1



204 SECTION

NOT TO SCALE

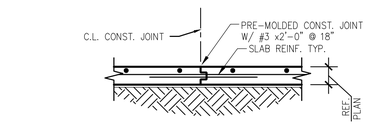


NOTES:

1. DOUBLE 2X TOP PLATE
2. 2X WOOD LEDGER WITH (3) SIMPSON SDS25400 PER STUD. SEE DETAIL 11/S1.2 AT LEDGER SPLICES.
3. POPOUT FRAMING PER ARCH'L
4. DOUBLE 2X BLOCKING WITH 3-16d PER BLOCK.
5. WOOD STUD WALL.
6. EDGE NAILING.
7. PLYWOOD SHEATHING.
8. 16d AT 8" O.C.
9. WOOD JOIST.
10. SIMPSON LU TYPE HANGER. HANGER.
11. SHEATHING MATERIAL AND ATTACHMENT AS OCCURS.
12. 3/4" PLYWOOD SIM. TO DETAIL 202 FOR POPOUT

201 WOOD JOIST AT WOOD STUD WALL

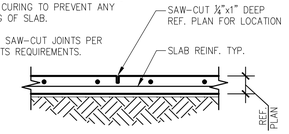
NOT TO SCALE



CONSTRUCTION JOINT

NOTE:

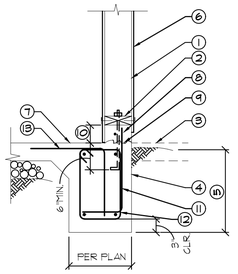
1. PROVIDE SAW-CUT WITHIN 24 HOURS OF SLAB CURING TO PREVENT ANY DAMAGING OF SLAB.
2. SEAL ALL SAW-CUT JOINTS PER ARCHITECTS REQUIREMENTS.



SAWCUT CONTROL JOINT

103 TYPICAL CONTROL JOINT

NOT TO SCALE



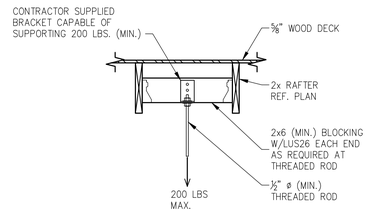
NOTE: REMOVE CONCRETE STEM AT DOOR OPENING

NOTES:

1. WOOD STUD WALL.
2. 2x CONTINUOUS WOOD PLATE WITH 1/2" DIA. ANCHOR BOLTS AT 48" O.C. (UNO)
3. FINISHED GRADE OR CONCRETE SLAB WHERE OCCURS.
4. CONCRETE FOOTING
5. FOOTING DEPTH PER G.S.N.
6. SHEATHING MATERIAL AND ATTACHMENT AS OCCURS.
7. CONCRETE SLAB ON GRADE.
8. 6" WIDE X 4" TALL CONCRETE STEM WITH CONT. #4
9. OPTIONAL COLD JOINT
10. 4" TO 8" (AS REQD)
11. #5 DOWELS AT 32" O.C. #5 DOWELS AT 18" O.C. WHEN STEM IS GREATER THAN 4" A.F.F
12. 2 #5 CONTINUOUS T&B AND #3 TIES AT 18" O.C.
13. #4 BENT BAR W/ 48" HORZ LEG. SPACE AT 24" O.C.

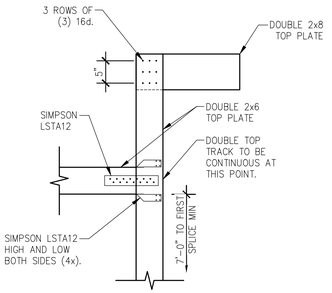
A WOOD STUD WALL FOOTING (TURNDOWN OPTION)

NOT TO SCALE



205 SECTION

NOT TO SCALE

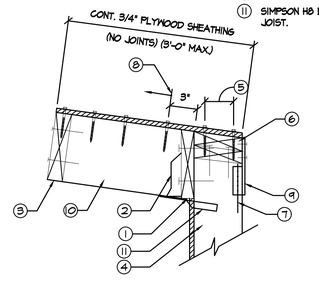


206 PLAN VIEW POP OUT TOP PLATES

NOT TO SCALE

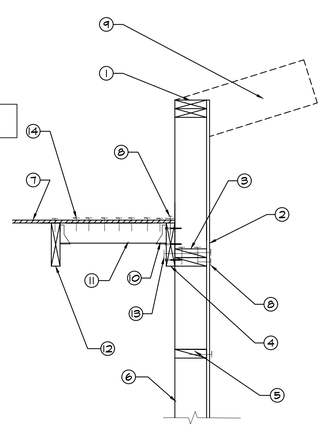
NOTES

1. CONT. 2X10 LEDGER W/ (2) 16d/STUD
2. SIMPSON LU26 HANGER
3. CONT. 2X10 W/ (2) 16d AT EACH JOIST
4. WOOD STUD WALL
5. (2) SIMPSON SD SCREW #9 x 2-1/2" AT 4" O.C. EA - STAGGERED ALL ALONG TOP PLATE
6. DOUBLE TOP PLATE W/ (2) 16d AT 6" O.C.
7. SCREWS ONE SIDE ONLY
8. SIMPSON SD SCREW #9 x 2-1/2" AT 6" O.C. ALONG JOIST
9. SIMPSON H10A AT EACH STUD - USE SIMPSON SD SCREW #9 x 2-1/2" - STUD TO DOUBLE TOP PLATE
10. 2x10 AT 16" O.C.
11. SIMPSON H8 EACH JOIST.



202 PARAPET EXTENSION

NOT TO SCALE

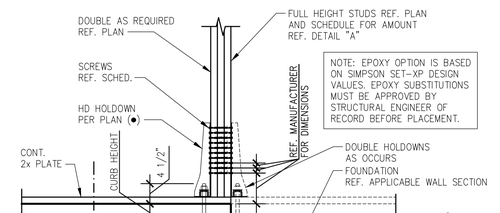


NOTES

1. DOUBLE 2x TOP PLATE
2. SHEATHING - SEE SHEAR WALL SCHEDULE.
3. DOUBLE 2x BLOCKING.
4. 2x12 LEDGER WITH (3) SDS25500 SCREWS PER STUD. SEE 11/S1.2 AT LEDGER SPLICES.
5. 2x BLOCKING AS REQUIRED FOR EDGE NAILING.
6. WOOD STUDS.
7. PLYWOOD SHEATHING.
8. EDGE NAILING.
9. PARAPET EXTENSION PER DET. AS OCCURS.
10. SIMPSON LU TYPE HANGERS.
11. 2x BLOCKING
12. WOOD JOIST.
13. 16d AT 8" O.C. (LEDGER TO BLOCKING)
14. EDGE NAILING INTO 2X BLOCKING FROM WALL TO JOIST

203 WOOD STUD WALL AT ROOF

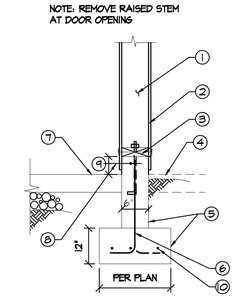
NOT TO SCALE



HOLDOWN	POST/2x	BOLT/SCREW #	ANCH. BOLT	EDGE DISTANCE	CAST IN PLACE REQUIREMENTS BOLT EMBED	EPOXY OPTION REQUIREMENTS BOLT EMBED
HDU11-SDS2.5	(3) 2x OR 6x6	(30) SDS ¼"x2½"	1"ø	16"	1'-2" INTO LOWER FOOTING	1'-4"

104 TYP HOLDOWN DETAIL

NOT TO SCALE



NOTES:

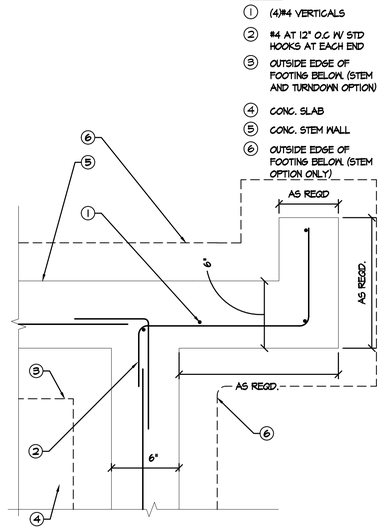
1. WOOD STUD WALL.
2. SHEATHING MATERIAL AND ATTACHMENT AS OCCURS.
3. 2x CONTINUOUS PLATE WITH 1/2" DIA. ANCHOR BOLTS AT 48" O.C. - U.N.O.
4. FINISHED GRADE OR CONCRETE SLAB AS OCCURS.
5. CONCRETE STEM WALL AND FOOTING.
6. #5 HOOKED DOWELS AT 32" O.C. - ALTERNATE BENDS/ PLACE DOWELS AT 18" O.C. WHEN STEM IS GREATER THAN 4" A.F.F)
7. CONCRETE SLAB ON GRADE.
8. (1) #4 CONTINUOUS.
9. 4" TO 8" (AS REQD)
10. (1) #5 CONT AT 1'-6" WIDE FOOTING. (2) #5 CONT AT 2'-4" WIDE FOOTING.

B WOOD STUD WALL FOOTING (STEM OPTION)

NOT TO SCALE

101 WOOD STUD WALL FOOTING

NOT TO SCALE



NOTES:

1. (4)#4 VERTICALS
2. #4 AT 12" O.C W/ STD HOOKS AT EACH END
3. OUTSIDE EDGE OF FOOTING BELOW. (STEM AND TURNDOWN OPTION)
4. CONC. SLAB
5. CONC. STEM WALL
6. OUTSIDE EDGE OF FOOTING BELOW. (STEM OPTION ONLY)

102 PLAN - CONC FOOTING AT POPOUT

NOT TO SCALE

FOR ADDITIONAL INFORMATION SHOWN BUT NOT NOTED, SEE GENERAL STRUCTURAL NOTES ON SHEET S1.1 AND TYPICAL DETAIL SHEETS.

THESE DRAWINGS/CALCULATIONS ARE CONSIDERED PRELIMINARY -NOT FOR CONSTRUCTION OR RECORDING UNLESS THE STRUCTURAL ENGINEER OF RECORD'S SEAL IS AFFIXED WITH WRITTEN SIGNATURE.

PROJECT NUMBER	25-0290	PROJECT MANAGER	RAD
PROJECT ENGINEER	RAD	PROJECT DRAFTER	JLG

CARUSO · TURLEY · SCOTT · INC
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REGISTRATION SEAL

NORTH CAROLINA PROFESSIONAL SEAL 049268 ENGINEER RICHARD A. DAHLMANN

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1215 W. RIO SALADO PKWY. SUITE 200
TEMPE, ARIZONA 85281
CERTIFICATION # C-1669

04-03-25

SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY

TITLE:

DETAILS

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

KIOSK PROTOTYPE:
4.2 REVERSE PROTOTYPE
JUNE 2024

ISSUE DATE:
03/21/2025

PROJECT NO.
240761

DRAWN BY:

CHECKED BY:

SHEET NO.

S3.1

MECHANICAL SYMBOLS

NOTE: THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS, ETC. ARE NECESSARILY USED ON THE DRAWINGS.

HVAC EQUIPMENT & DUCTWORK

NOTE: ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE INSIDE DIMENSIONS.

- EXISTING DUCTWORK OR EQUIPMENT TO REMAIN
- EXISTING DUCTWORK OR EQUIPMENT TO BE REMOVED
- BRANCH DUCT WITH 45° RECTANGLE–ROUND BRANCH FITTING AND MANUAL VOLUME DAMPER
- ELBOW WITH TURNING VANES
- LINEAR SLOT DIFFUSER
- INSULATED FLEXIBLE DUCT (MAX. 5'–0" LONG)
- EXHAUST AIR DUCT UP
- EXHAUST AIR DUCT DOWN
- RETURN AIR DUCT UP
- RETURN AIR DUCT DOWN
- SUPPLY OR OUTSIDE AIR DUCT UP
- SUPPLY OR OUTSIDE AIR DUCT DOWN
- DUCT ROOF PENETRATION
- EQUIPMENT WITH FLEXIBLE DUCT CONNECTION
- 10ø CD–1 300 CFM — NECK SIZE, TYPE, CFM OF SUPPLY DIFFUSER OR REGISTER
- 24x24 EG–1 800 CFM — SIZE, TYPE, CFM OF EXHAUST OR RETURN GRILLE
- MANUAL VOLUME DAMPER
- SQUARE TO ROUND TRANSITION
- RD DUCT MOUNTED SMOKE DETECTOR (SD=SUPPLY/RD=RETURN)
- AV AUDIO/VISUAL ALARM
- FD FIRE DAMPER
- FSD FIRE SMOKE DAMPER
- SD SMOKE DAMPER
- MD MOTORIZED DAMPER
- BD BACKDRAFT DAMPER
- CO CARBON MONOXIDE SENSOR
- CO2 CARBON DIOXIDE SENSOR
- HS HUMIDITY SENSOR
- PS PULL STATION
- SP STATIC PRESSURE SENSOR
- TS TEMPERATURE SENSOR
- H HUMIDISTAT
- T THERMOSTAT
- S WALL SWITCH & UNIT DESIGNATION (X)

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	MBH	1000 BTU PER HOUR
BAS	BUILDING AUTOMATION SYSTEM	MC	MECHANICAL CONTRACTOR
BFF	BELOW FINISHED FLOOR	MIN	MINIMUM
BFG	BELOW FINISHED GRADE	NC	NOISE CRITERIA
BD	BACKDRAFT DAMPER	OA	OUTSIDE AIR
CFM	CUBIC FEET PER MINUTE	PPM	PARTS PER MILLION
DDC	DIRECT DIGITAL CONTROL	RA	RETURN AIR
DX	DIRECT EXPANSION	SA	SUPPLY AIR
EA	EXHAUST AIR	TFA	TO FLOOR ABOVE
ETR	EXISTING TO REMAIN	TFB	TO FLOOR BELOW
FFA	FROM FLOOR ABOVE	TYP	TYPICAL
FFB	FROM FLOOR BELOW	UNO	UNLESS NOTED OTHERWISE
GPM	GALLONS PER MINUTE	W/	WITH
IN WC	INCHES OF WATER COLUMN	W/O	WITHOUT
MAX	MAXIMUM		

STANDARD MOUNTING HEIGHTS

MECHANICAL	(AFF, AFG, UNLESS NOTED OTHERWISE)
THERMOSTATS (USER ADJUSTABLE)(TOP OF DEVICE)	48"
CONTROLS (TOP OF DEVICE)	48"

ANNOTATION

- 1 — MECHANICAL PLAN CALLOUT
- CU 1 — MECHANICAL EQUIPMENT DESIGNATION (CONTRACTOR FURNISHED AND INSTALLED UNLESS NOTED OTHERWISE)
- CONNECTION POINT OF NEW WORK TO EXISTING
- 1 / M1 — DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER
- 1 / M1 — SECTION CUT DESIGNATION

GENERAL MECHANICAL NOTES:

A. PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE PROJECT. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS WHICH MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, ENGINEER AND/OR OWNER OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.

B. COORDINATE THE INSTALLATION OF THE MECHANICAL SYSTEMS WITH OTHER TRADES TO ENSURE A NEAT AND ORDERLY INSTALLATION. INSTALL DUCTWORK AS TIGHT TO STRUCTURE AS POSSIBLE. COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS. COORDINATE INSTALLATION OF DUCTWORK TO AVOID CONFLICTS WITH ELECTRICAL PANELS, LIGHTING FIXTURES, ETC. ANY MODIFICATIONS REQUIRED DUE TO LACK OF COORDINATION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO EXTRA COST TO THE OWNER.

C. NEW MECHANICAL EQUIPMENT AND DUCTWORK ARE SHOWN AT APPROXIMATE LOCATIONS. FIELD MEASURE FINAL DUCTWORK LOCATIONS PRIOR TO FABRICATION AND MAKE ADJUSTMENTS AS REQUIRED TO FIT THE DUCTWORK AND PIPING WITHIN THE AVAILABLE SPACE. VERIFY THAT FINAL EQUIPMENT LOCATIONS MEET MANUFACTURER'S RECOMMENDATIONS REGARDING SERVICE CLEARANCE AND PROPER AIRFLOW CLEARANCE AROUND EQUIPMENT.

D. REFER TO ARCHITECTURAL DRAWINGS FOR RELATED CONSTRUCTION DETAILS AS APPLICABLE TO THE HVAC SYSTEM. VERIFY CHASES AND PENETRATIONS SHOWN ON ARCHITECTURAL DRAWINGS THAT ARE INTENDED FOR DUCTWORK AND PIPING MEET REQUIREMENTS.

E. COORDINATE LOCATION OF ROOF MOUNTED HVAC EQUIPMENT AND ROOF PENETRATIONS WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.

F. INDOOR AIR QUALITY MEASURES: PROTECT INSIDE OF (INSTALLED AND DELIVERED) DUCTWORK AND HVAC UNITS FROM EXPOSURE TO DUST, DIRT, PAINT AND MOISTURE. REPLACE INSULATION THAT HAS GOTTEN WET AT ANY TIME DURING CONSTRUCTION, DRYING THE INSULATION IS NOT ACCEPTABLE. SEAL ANY TEARS OR JOINTS OF INTERNAL FIBERGLASS INSULATION. REMOVE DEBRIS FROM CEILING/RETURN AIR PLENUM INCLUDING DUST. AN INDEPENDENT, PROFESSIONAL DUCT CLEANING COMPANY SHALL VACUUM CLEAN ANY DUCTWORK CONNECTED TO HVAC UNITS THAT WERE OPERATED DURING THE CONSTRUCTION PERIOD AFTER NEW FILTERS, MINIMUM MERV–13, ARE INSTALLED AND PRIOR TO TURNING SYSTEM OVER TO THE OWNER.

G. INSTALL DUCTWORK PARALLEL TO BUILDING COLUMN LINES UNLESS OTHERWISE SHOWN OR NOTED.

H. OVERHEAD HANGERS AND SUPPORTS FOR EQUIPMENT, DUCTWORK SHALL BE FASTENED TO BUILDING JOISTS OR BEAMS. DO NOT ATTACH HANGERS AND SUPPORTS TO THE ABOVE FLOOR SLAB OR ROOF EXCEPT WHERE CONCRETE INSERTS IN CONCRETE SLABS ARE ALLOWED BY THE SPECIFICATIONS.

I. COORDINATE LOCATION OF EQUIPMENT SUPPORTS WITH LOCATION OF EQUIPMENT ACCESS PANELS/DOORS TO ENABLE SERVICE OF EQUIPMENT AND/OR FILTER REPLACEMENT.

J. SEAL PENETRATIONS THROUGH THE BUILDING COMPONENTS IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. FIREPROOF PENETRATIONS THROUGH FIRE RATED COMPONENTS IN ACCORDANCE WITH U.L. REQUIREMENTS.

K. COORDINATE THE EXACT MOUNTING SIZE AND FRAME TYPE OF DIFFUSERS, REGISTERS AND GRILLES WITH THE SUPPLIER TO MEET THE CEILING, WALL AND DUCT INSTALLATION REQUIREMENTS.

L. ADJUST LOCATION OF CEILING DIFFUSERS, REGISTERS AND GRILLES AS REQUIRED TO ACCOMMODATE FINAL CEILING GRID AND LIGHTING LOCATIONS.

M. LOCATE AND SET THERMOSTATS SENSORS AT LOCATIONS SHOWN ON PLANS. VERIFY EXACT LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION. INSTALL THERMOSTATS WITH TOP OF DEVICE AT MAXIMUM 48" AFF TO MEET ADA REQUIREMENTS UNLESS NOTED OTHERWISE ON PLANS. TEMPERATURE SENSORS SHALL BE MOUNTED AT A MAXIMUM OF 72" AFF. INSTALL WIRING IN CONDUIT PROVIDED BY DIVISION 16.

N. PROVIDE A MANUAL BALANCING DAMPER IN EACH BRANCH DUCT TAKEOFF FROM MAIN SUPPLY, RETURN, OUTDOOR AND EXHAUST AIR DUCTS.

O. PROVIDE A PREFABRICATED 45 DEGREE, HIGH EFFICIENCY, RECTANGULAR/ROUND BRANCH DUCT TAKEOFF FITTING WITH MANUAL BALANCING DAMPER AND LOCKING QUADRANT FOR BRANCH DUCT CONNECTIONS AND TAKE–OFFS TO INDIVIDUAL DIFFUSERS, REGISTERS AND GRILLES.

P. BRANCH DUCTWORK TO AIR OUTLETS SHALL BE SAME SIZE AS OUTLET NECK SIZE UNLESS OTHERWISE NOTED.

Q. RIGID DUCTWORK INSULATION: PROVIDE 3/4 LB DENSITY, MINIMUM R–6.0 DUCT WRAP, 2" THICK, INSULATION WRAP ON RIGID ROUND, CONCEALED, SUPPLY AND RETURN AIR DUCTS. PROVIDE 1–1/2" (R–6.0) THICK, 1–1/2 LB DENSITY INTERNAL DUCT LINER ON RECTANGULAR SUPPLY AND RETURN AIR DUCTS. DUCT SIZES ON MECHANICAL PLANS INDICATE CLEAR INSIDE AIRFLOW DIMENSIONS, INCREASE SHEET METAL SIZES ACCORDINGLY.

R. PROVIDE THERMAFLEX TYPE M–KE, FLEXMASTER TYPE 8, OR APPROVED EQUAL FLEXIBLE DUCTWORK. FLEXIBLE DUCTWORK SHALL BE LISTED UNDER UL 181 AS CLASS 1 AIR DUCT AND BE PROVIDED WITH INTEGRAL R–6.0, 3/4 LB DENSITY FIBERGLASS INSULATION. FLEXIBLE DUCTWORK SHALL NOT EXCEED 5'–0" IN LENGTH AND SHALL BE INSTALLED AND SUPPORTED TO AVOID SHARP BENDS AND SAGGING.

S. PROVIDE A NEW SET OF AIR FILTERS IN UNITS PRIOR TO TESTING, ADJUSTING AND BALANCING. AND BEFORE TURNING SYSTEM(S) OVER TO OWNER.

T. PROVIDE A COPY OF THE AIR BALANCE REPORT TO THE CITY INSPECTOR AT THE TIME OF INSPECTION.

ROOFTOP UNIT SCHEDULE (ELECTRIC HEAT)

MARK	NOMINAL CAPACITY (TONS)	MANUFACTURER	MODEL	SUPPLY FAN				COOLING COIL					HEAT EXCHANGER			MIN. O/A CFM	EFFICIENCY RATING	ELECTRICAL			WEIGHT LBS	NOTES
				FAN TYPE	AIRFLOW (CFM)	MIN BHP	ESP (IN)	REFR. TYPE	TOTAL (MBH)	SENSIBLE (MBH)	EAT DB/WB (°F)	LAT DB/WB (°F)	TOTAL CAPACITY (MBH)	NOM. KW	MIN. LAT DB (°F)			V/PH	MCA	MOCP		
RTU-1	5	CARRIER	50FE-B06A3	DIRECT	1,950	0.7	0.5	R-454B	60.4	38.0	77.9/68.1	59.6/58.6	33.5	9.8	81.6	150	13.4 SEER2	230/1	71.0	80	832	A-G

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.

NOTES:
A. PROVIDE DRY-BULB ECONOMIZER WITH 100% BAROMETRIC RELIEF DAMPER.
B. PROVIDE LOW AMBIENT COOLING CONTROL TO 40°F.
C. EQUIPMENT SIZED FOR 115°F AMBIENT TEMPERATURE.
D. PROVIDE 2" PLEATED MERV-13 THROWAWAY AIR FILTERS.
E. SPECIFIED FAN ESP ACCOUNTS FOR DUCT LOSSES EXTERNAL TO UNIT.
F. PROVIDE MANUFACTURER'S STANDARD INSULATED ROOF CURB WITH MINIMUM HEIGHT OF 14".
G. PROVIDE WITH 7-DAY PROGRAMMABLE THERMOSTAT WITH STAGED HEATING AND COOLING CAPABILITY AS REQUIRED FOR OPERATION OF HEATING, COOLING AND ECONOMIZER CONTROLS.

FAN SCHEDULE

MARK	SERVICE (EA, RA, SA)	MANUFACTURER	MOUNTING	MODEL	AIRFLOW (CFM)	ESP (IN)	DRIVE (BELT/DIRECT)	FAN POWER	ELECTRICAL		WEIGHT (LBS)	NOTES
									V/PH	FLA		
EF-1	EXHAUST	COOK	CEILING	GC-128	75	0.125	DIRECT	4 W	120/1	--	13	A,B,C,E

NOTES:
A. PROVIDE RUBBER IN SHEAR ISOLATION AND ALL-THREAD HANGING RODS.
B. MANUFACTURER TO PROVIDE WITH DECORATIVE GRILLE.
C. INTERLOCK FAN OPERATION WITH RESTROOM LIGHT SWITCH.
E. MANUFACTURER TO PROVIDE **12" HIGH ROOF CURB AND SPUN ALUMINUM ROOF CAP** WITH INTEGRAL BIRD SCREEN AND BACKDRAFT DAMPER.

OUTSIDE AIR REQUIREMENTS (FMC TABLE 403.3.1.1)

AREA PURPOSE	GROSS FLOOR AREA (SQ. FT)	CODE OUTSIDE AIR REQUIREMENTS						SYSTEM NUMBER	ACTUAL OUTSIDE AIR (CFM PER UNIT)
		CFM PER SQ. FT	CFM REQD.	CFM PER PERSON	OCCUPANCY DENSITY	NO. OF PEOPLE	CFM REQD.		
								RTU-1	150
KITCHEN	536	0.12	64	7.5	5	4	30		
	536	TOTAL =	64				30	TOTAL =	150

AIR BALANCE SCHEDULE

EXHAUST EQUIPMENT	AREA/EQUIPMENT SERVED		EXHAUST (CFM)	TOTALS (CFM)
EF-1	RESTROOM		75	
				75

OUTDOOR AIR EQUIPMENT	AREA/EQUIPMENT SERVED	SUPPLY AIR (CFM)	DESIGN OA (CFM)	PERCENT OA/SA	
RTU-1	KITCHEN	1,950	150	7.7%	
TOTAL AIRFLOW		1,950	150	7.7%	150
			TOTAL POSITIVE AIR FLOW		75
			PERCENT POSITIVE AIR FLOW		50.0%

EXHAUST AIR REQUIREMENTS

AREA PURPOSE	FIXTURE QUANTITY	GROSS FLOOR AREA (SQ. FT)	CODE EXHAUST AIR REQUIREMENTS IMC TABLE 403.3			SYSTEM NUMBER	ACTUAL EXHAUST AIR
			CFM PER SQ. FT	CFM PER FIXTURE	CFM REQD.		
						EF-1	75
PUBLIC RESTROOM	1			70	70		
	1	0		TOTAL =	70	TOTAL =	75

GRILLE, REGISTER AND DIFFUSER SCHEDULE

MARK	MANUFACTURER	MODEL	FACE TYPE	MOUNTING LOCATION	FACE SIZE (IN)	MAX. NC	MAX. PRESS. DROP (IN. W.C.)	NOTES
CD-1	TITUS	TMS	CONE	LAY IN	24x24	25	0.05	A-D
RG-1	TITUS	PAR	PERFORATED	LAY IN	22x22	25	0.05	A,C,D

NOTES:
A. NECK SIZE SHOWN ON DRAWINGS. BRANCH DUCT SIZE SHALL BE SAME AS NECK SIZE UNLESS OTHERWISE SHOWN ON DRAWINGS.
B. 4-WAY THROW PATTERN UNLESS OTHERWISE SHOWN ON DRAWINGS.
C. BAKED ENAMEL FINISH, WHITE TO MATCH CEILING COLOR.
D. FRAME TYPE TO MATCH MOUNTING LOCATION CONSTRUCTION MATERIAL. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN.

REGISTRATION SEAL
NORTH CAROLINA PROFESSIONAL SEAL 035265 ENGINEER ROBERT L. QUEATHEM
4/16/25

ROBERT L. QUEATHEM
ENGINEER
950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
1			
2			
3			
4			
5			
6			
7			
8			
9			

TITLE:
MECHANICAL SCHEDULES

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

KIOSK PROTOTYPE:
4.2 REVERSE PROTOTYPE
JUNE 2024
ISSUE DATE:
03/21/2024
PROJECT NO.
240761
DRAWN BY:
FM
CHECKED BY:
ACR

SHEET NO.
M0.1

COMcheck Software Version COMcheckWeb

Mechanical Compliance Certificate

Project Information

Energy Code:	90.1 (2016) Standard
Project Title:	240761 - SCOOTER'S COFFEE - CAMERON, NC (2016 ASHRAE))
Location:	Cameron, North Carolina
Climate Zone:	3a
Project Type:	New Construction

Construction Site:
130 Brandywood Ct.
Cameron, North Carolina 28326

Owner/Agent:
Scooter's Coffee

Designer/Contractor:
Robert L. Queathem
1950 Craig Road, Suite #300
Saint Louis, Missouri 63146
arcv@arcv.com

Mechanical Systems List

Quantity **System Type & Description**

1 RTU-1 (Single Zone):
Heating: 1 each - Central Furnace, Electric, Capacity = 33 kBtu/h
No minimum efficiency requirement applies
Cooling: 1 each - Single Package DX Unit, Capacity = 60 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 14.00 SEER, Required Efficiency = 14.00 SEER
Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00
Fan System: FAN SYSTEM 1 -- Compliance (Brake HP and fan efficiency method) : Passes

Fans:
RTU-1 Supply, Constant Volume, 1950 CFM, 1.0 motor nameplate hp, 0.7 design brake hp (0.7 max. BHP), 67.0 fan efficiency grade, 1.0 total fan efficiency, 1.0 design fan efficiency , fan exception: Single fan <= 5HP

1 Water Heater:
Electric Storage Water Heater, Capacity: 50 gallons w/ Circulation Pump
No minimum efficiency requirement applies

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 90.1 (2016) Standard requirements in *COMcheck* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

ROBERT L. QUEATHEM — Signature — 03/21/25
Name - Title — Signature — Date

COMcheck Software Version COMcheckWeb

Inspection Checklist

Energy Code: 90.1 (2016) Standard

Requirements: 21.0% were addressed directly in the *COMcheck* software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
4.2.2, 6.4.4.2.1, 6.7.2 [PR2][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
4.2.2, 7.7.1, 10.4.2 [PR3][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the service water heating systems and equipment and document where exceptions to the standard are claimed. Hot water system sized per manufacturer's sizing guide.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
4.2.2, 8.4.1.1, 8.4.1.2, 8.7 [PR6][2]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the electrical systems and equipment and document where exceptions are claimed. Feeder connectors sized in accordance with approved plans and branch circuits sized for maximum drop of 3%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.7.2.4 [PR5][1]	Detailed instructions for HVAC systems commissioning included on the plans or specifications for projects >=50,000 ft2.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
6.4.3.7 [FO9][3]	Freeze protection and snow/ice melting system sensors for future connection to controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
7.4.4.1 [PL2][3]	Temperature controls installed on service water heating systems (<=120ºF to maximum temperature for intended use).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
7.4.4.2 [PL3][1]	Automatic time switches installed to automatically switch off the recirculating hot-water system or heat trace.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.4.1.4, 6.4.1.5 [ME1][2]	HVAC equipment efficiency verified. Non-NAECA HVAC equipment labeled as meeting 90.1.	Efficiency:____	Efficiency:____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Mechanical Systems list for values.*
6.4.3.4.1 [ME3][3]	Stair and elevator shaft vents have motorized dampers that automatically close.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
6.4.3.4.5 [ME39][3]	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
6.4.3.4.4 [ME5][3]	Ventilation fans >0.75 hp have automatic controls to shut off fan when not required.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
6.4.3.8 [ME6][1]	Demand control ventilation provided for spaces >500 ft2 and >25 people/1000 ft2 occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
6.5.3.2.1 [ME40][2]	DX cooling systems >= 75 kBtu/h (>= 65 kBtu/h effective 1/2016) and chilled-water and evaporative cooling fan motor hp >= ¼ designed to vary supply fan airflow as a function of load and comply with operational requirements.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Mechanical Systems list for values.*
6.4.4.1.1 [ME7][3]	Insulation exposed to weather protected from damage. Insulation outside of the conditioned space and associated with cooling systems is vapor retardant.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
6.4.4.1.2 [ME8][2]	HVAC ducts and plenums insulated per Table 6.8.2. Where ducts or plenums are installed in or under a slab, verification may need to occur during Foundation Inspection.	R-____	R-____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
6.4.4.1.3 [ME9][2]	HVAC piping insulation thickness. Where piping is installed in or under a slab, verification may need to occur during Foundation Inspection.	____ in.	____ in.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
6.4.4.1.4 [ME41][3]	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
6.4.4.2.1 [ME10][2]	Ducts and plenums having pressure class ratings are Seal Class A construction.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.8.1-15, 6.8.1-16 [ME110][2]	Electrically operated DX-DOAS units meet requirements per Tables 6.8.1-15 or 6.8.1-16.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
6.4.4.2.2 [ME11][3]	Ductwork operating >3 in. water column requires air leakage testing.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
6.5.1.5 [ME16][1]	Economizer operation will not increase heating energy use during normal operation.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
6.5.2.3 [ME19][3]	Dehumidification controls provided to prevent reheating, recooling, mixing of hot and cold airstreams or concurrent heating and cooling of the same airstream.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
6.5.2.4.1 [ME68][3]	Humidifiers with airstream mounted preheating jackets have preheat auto-shutoff value set to activate when humidification is not required.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
6.5.2.4.2 [ME69][3]	Humidification system dispersion tube hot surfaces in the airstreams of ducts or air-handling units insulated >= R-0.5.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
6.5.2.5 [ME70][3]	Preheat coils controlled to stop heat output whenever mechanical cooling, including economizer operation, is active.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
6.5.2.6 [ME106][3]	Units that provide ventilation air to multiple zones and operate in conjunction with zone heating and cooling systems are prevented from using heating or heat recovery to warm supply air above 60°F when representative building loads or outdoor air temperature indicate that most zones demand cooling.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
6.5.3.6 [ME72][2]	Motors for fans >= 1/12 hp and < 1 hp are electronically-commutated motors or have a minimum motor efficiency of 70%. These motors are also speed adjustable for either balancing or remote control.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

REGISTRATION SEAL
NORTH CAROLINA PROFESSIONAL SEAL 035265 ENGINEER ROBERT L. QUEATHEM
4/16/25

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SCOOTER'S COFFEE EST. 1998

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TITLE:
MECHANICAL ENERGY COMPLIANCE

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

KIOSK PROTOTYPE:
4.2 REVERSE PROTOTYPE
JUNE 2024
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240761
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Section # & Req.ID	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.5.3.4 [ME108]²	Parallel-flow fan-powered VAV air terminals have automatic controls to a) turn off the terminal fan except when space heating is required or if required for ventilation; b) turn on the terminal fan as the first stage of heating before the heating coil is activated; and c) during heating for warmup or setback temperature control, either operate the terminal fan and heating coil without primary air or reverse the terminal damper logic and provide heating from the central air handler through primary air.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
6.5.3.7 [ME109]²	Required minimum outdoor air rate is the larger of minimum outdoor air rate or minimum exhaust air rate required by Standard 62.1, Standard 170, or applicable codes or accreditation standards. Outdoor air ventilation systems shall comply with one of the following: a) design minimum system outdoor air provided < 135% of the required minimum outdoor air rate, b) dampers, ductwork, and controls allow the system to supply <= the required minimum outdoor air rate with a single set-point adjustment., or c) system includes exhaust air energy recovery complying with Section 6.5.6.1.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
6.5.3.3 [ME42]³	Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint reset controls.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Mechanical Systems list for values.*
6.5.4.2 [ME25]³	HVAC pumping systems with >= 3 control values designed for variable fluid flow (see section details).			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
6.5.6.1 [ME56]¹	Exhaust air energy recovery on systems meeting Tables 6.5.6.1-1, and 6.5.6.1-2.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
6.5.7.1 [ME100]²	Conditioned supply air to space with mechanical exhaust <= the greater of criteria of supply flow, required ventilation rate, exhaust flow minu the available transffer air (see section details).			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
6.5.7.2.1 [ME32]²	Kitchen hoods >5,000 cfm have make up air >=50% of exhaust air volume.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.5.7.2.4 [ME49]³	Approved field test used to evaluate design air flow rates and demonstrate proper capture and containment of kitchen exhaust systems.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
6.5.8.1 [ME34]²	Unenclosed spaces that are heated use only radiant heat.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
6.5.9 [ME35]¹	Hot gas bypass limited to: <=240 kBtu/h – 15% >240 kBtu/h – 10%			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
7.4.2 [ME36]²	Service water heating equipment meets efficiency requirements.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
6.4.3.9 [ME63]²	Heating for vestibules and air curtains with integral heating include automatic controls that shut off the heating system when outdoor air temperatures > 45F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60F and cooling setpoint >= 80F.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
6.5.10 [ME73]³	Doors separating conditioned space from the outdoors have controls that disable/reset heating and cooling system when open.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
8.4.2 [EL10]²	At least 50% of all 125 volt 15- and 20-Amp receptacles are controlled by an automatic control device.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
8.4.3 [EL11]²	New buildings have electrical energy use measurement devices installed. Where tenant spaces exist, each tenant is monitored separately. In buildings with a digital control system the energy use is transmitted to to control system and displayed graphically.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
10.4.1 [EL9]²	Electric motors meet requirements where applicable.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
6.4.3.1.2 [FI3]³	Thermostatic controls have a 5 °F deadband.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
6.4.3.2 [FI20]³	Temperature controls have setpoint overlap restrictions.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
6.4.3.3.1 [FI21]³	HVAC systems equipped with at least one automatic shutdown control.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
6.4.3.3.2 [FI22]³	Setback controls allow automatic restart and temporary operation as required for maintenance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
6.4.3.12 [FI200]³	Air economizer has a fault detection and diagnostics (FDD) system (see details for configuration and operational requirements).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
6.4.3.6 [FI6]³	When humidification and dehumidification are provided to a zone, simultaneous operation is prohibited. Humidity control prohibits the use of fossil fuel or electricity to produce RH > 30% in the warmest zone humidified and RH < 60% in the coldest zone dehumidified.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
6.7.2.1 [FI7]³	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
6.7.2.2 [FI8]³	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
6.7.2.3 [FI9]¹	An air and/or hydronic system balancing report is provided for HVAC systems serving zones >5,000 ft2 of conditioned area.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
6.7.2.4 [FI10]¹	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
7.4.4.3 [FI11]³	Public lavatory faucet water temperature <=110°F.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
7.4.4.4 [FI12]³	Controls are installed that limit the operation of a recirculation pump installed to maintain temperature of a storage tank.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
10.4.3 [FI24]²	Elevators are designed with the proper lighting, ventilation power, and standby mode.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

REGISTRATION SEAL

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MECHANICAL ENERGY COMPLIANCE

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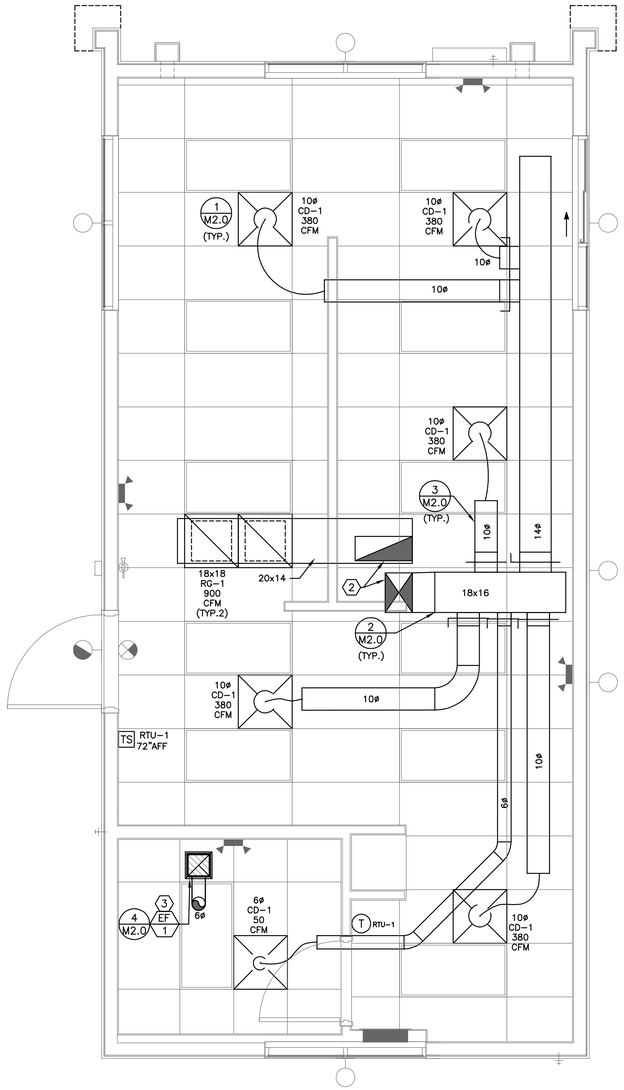
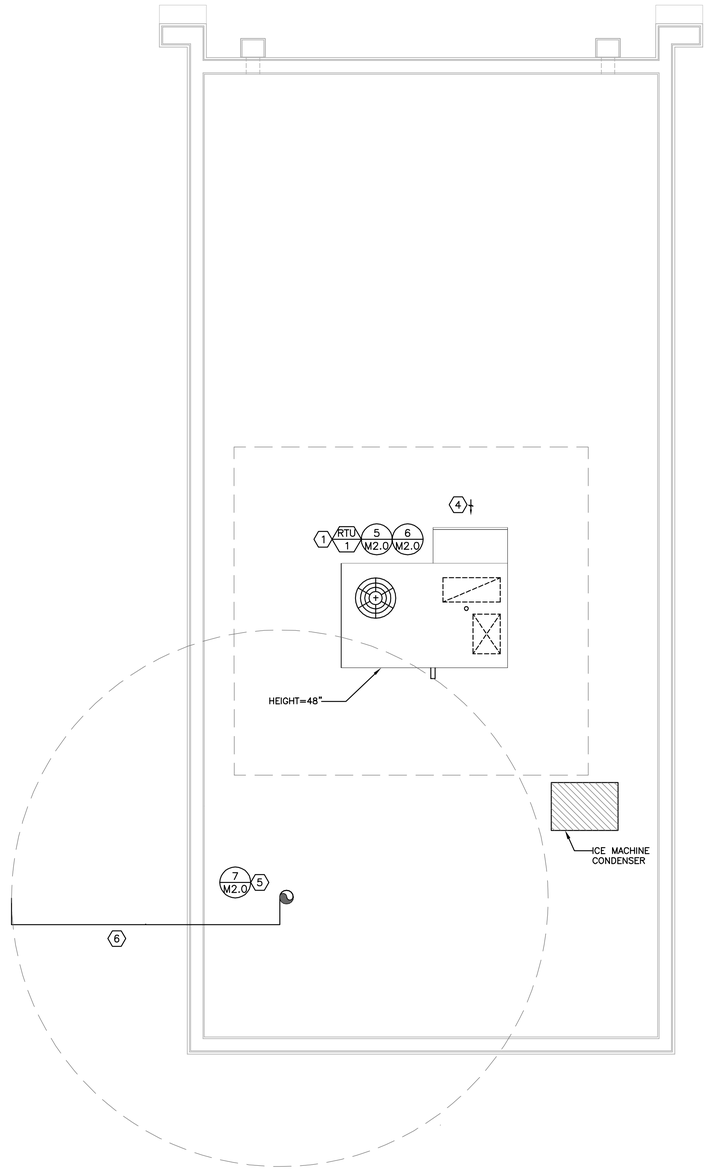
MECHANICAL PLAN NOTES:

1. NEW PACKAGED ROOF TOP UNIT ON NEW ROOF CURB. COORDINATE EXACT LOCATION WITH STRUCTURAL DRAWINGS. ROUTE SUPPLY AND RETURN DUCTWORK DOWN THROUGH ROOF. COORDINATE SIZE OF DUCTWORK TO CLEAR ROOF STRUCTURE AT THE UNDERSIDE OF THE ROOF DECK. ADJUST DUCT SIZE AS NECESSARY WHILE MAINTAINING EQUIVALENT CROSS-SECTIONAL AREA OF DUCTWORK. SEE FLOOR PLAN FOR CONTINUATION OF DUCTWORK ROUTING.
2. ROUTE FULL SIZE SUPPLY AND RETURN AIR DUCTWORK THROUGH ROOF AND TRANSITION TO DUCTWORK INDICATED ON FLOOR PLAN. BALANCE OUTSIDE AIR DUCTWORK CFM TO AIRFLOW INDICATED ON PLAN.
3. CEILING MOUNTED RESTROOM EXHAUST FAN, INTERLOCKED WITH RESTROOM LIGHT SWITCH. ROUTE 6"ø EXHAUST DUCT UP AND PENETRATE ROOF. TERMINATE ON ROOF WITH ROOF CAP. COORDINATE LOCATION OF DISCHARGE TO MAINTAIN MINIMUM 10'-0" DISTANCE AWAY FROM ANY BUILDING INTAKES OR OPENINGS.
4. OUTSIDE AIR INTAKE OF ROOF TOP UNIT. AIR INTAKE SHALL BE MINIMUM 10'-0" AWAY FROM ANY EXHAUST FANS AND PLUMBING VENTS.
5. RESTROOM EXHAUST TERMINATION ROOF CAP ON ROOF CURB. COORDINATE LOCATION OF ROOF CAP TO MAINTAIN 10'-0" MINIMUM CLEARANCE FROM FRESH AIR INTAKES, 3'-0" FROM OPENINGS INTO BUILDING AND 3'-0" FROM PROPERTY LINE.
6. 10'-0" HORIZONTAL EXHAUST CLEARANCE RADIUS FROM EQUIPMENT AND BUILDING INTAKES.



1 MECHANICAL FLOOR PLAN
SCALE: 3/8"=1'-0"



2 MECHANICAL ROOF PLAN
SCALE: 3/8"=1'-0"

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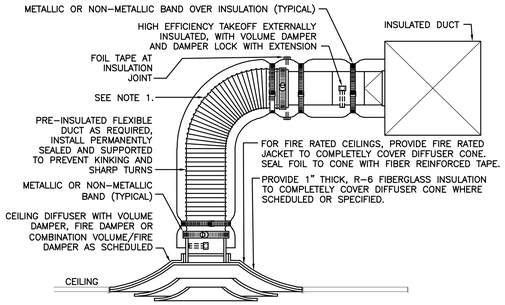
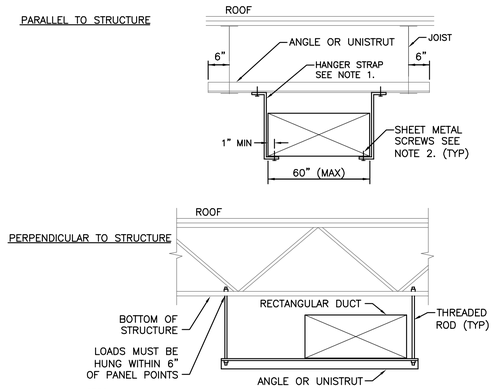


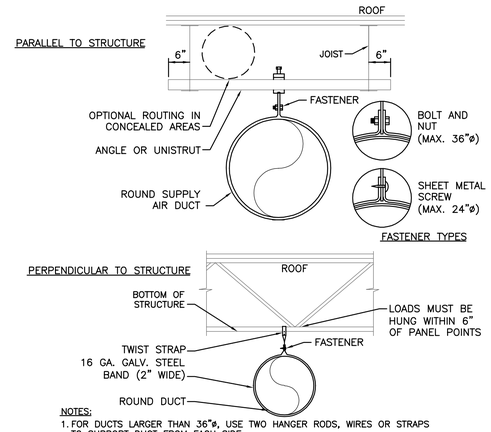
NOTES:
1. EXTEND RIGID METAL DUCT SO THAT MAXIMUM FLEXIBLE DUCT LENGTH DOES NOT EXCEED 5'-0". PROVIDE RIGID 90° ELBOW WHERE REQUIRED TO KEEP FLEXIBLE DUCT WITHIN 5'-0" LENGTH LIMITATION.
2. PROVIDE RIGID ROUND-TO-OVAL TRANSITION WHEN PLENUM HAS OVAL CONNECTION.

1 LAY-IN TYPE CEILING DIFFUSER DETAIL
NO SCALE



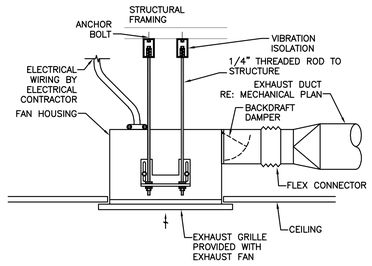
NOTES:
1. USE THREADED ROD FOR ALL DUCTS LARGER THAN 60"ø WIDE.
2. SHEET METAL SCREWS MAY BE OMITTED IF HANGER STRAP IS CONTINUOUS AND LOOPS UNDER ENTIRE DUCT.

2 RECTANGULAR DUCT SUPPORT DETAIL
NO SCALE

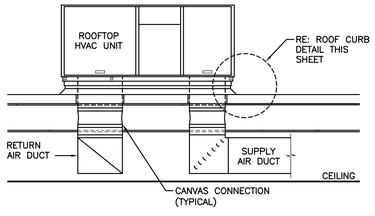


NOTES:
1. FOR DUCTS LARGER THAN 36"ø, USE TWO HANGER RODS, WIRES OR STRAPS TO SUPPORT DUCT FROM EACH SIDE.

3 ROUND DUCT SUPPORT DETAIL
NO SCALE

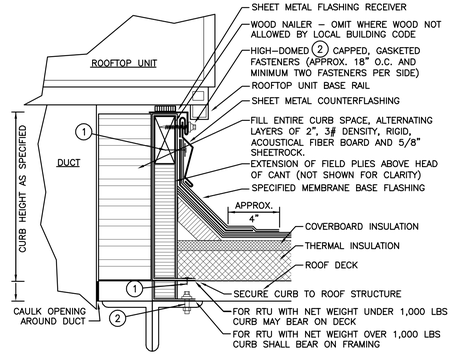


4 CEILING MOUNTED EXHAUST FAN
NO SCALE



NOTES:
1. PROVIDE OPENING THROUGH ROOF AND ROOF DECK INSULATION NO LARGER THAN REQUIRED TO ALLOW DUCTS TO PASS THROUGH. REFER TO PLANS FOR DUCT SIZES. TRANSITION AS REQUIRED IN ROOF CURB TO RTU SUPPLY AND RETURN OPENINGS.
2. PROVIDE SLOPED ROOF CURB TO INSTALL ROOFTOP UNIT LEVEL TO ENSURE PROPER DRAINAGE. COORDINATE ROOF SLOPE WITH ARCHITECTURAL. FLASH AND COUNTER FLASH ROOF PENETRATIONS, ETC. TO ENSURE WEATHER TIGHT INSTALLATION.

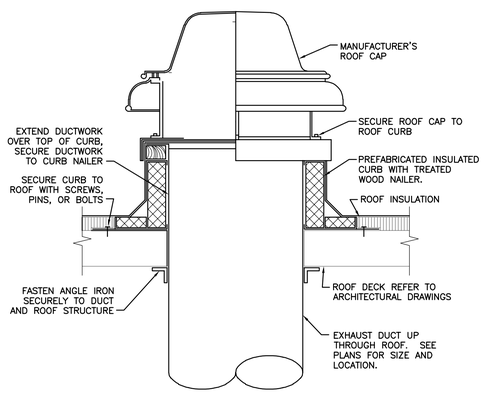
5 ROOFTOP UNIT WITH DUCTWORK DETAIL
NO SCALE



(1) #12x1" SELF DRILLING SCREWS AT 18"O.C.
(2) 7/16"-#14x1-1/2" HEX BOLT & LOCK NUT AT 24"O.C.

NOTES:
1. CUT METAL DECKING TO ALLOW CURB INSTALLATION ON STEEL FRAMING. AFTER CURB IS SET IN PLACE, TRIM REMAINING METAL DECKING AND INSTALL WITHIN CURB. TACK WELD DECKING TO SUPPORT STEEL. DO NOT WELD INTERIOR DECKING TO ROOF CURB. PROVIDE ADDITIONAL CROSS FRAMING TO SUPPORT INTERIOR DECKING AND FILL MATERIAL AS REQUIRED.

6 ROOF CURB DETAIL
NO SCALE



7 ROOF CAP AND AIR DUCT ROOF PENETRATION DETAIL
NO SCALE

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MECHANICAL SPECIFICATIONS:

GENERAL REQUIREMENTS

REQUIREMENTS UNDER DIVISION ONE AND THE GENERAL AND SUPPLEMENTARY CONDITIONS OF THESE SPECIFICATIONS SHALL BE A PART OF THIS SECTION. CONTRACTOR SHALL BECOME THOROUGHLY ACQUAINTED WITH ITS CONTENTS AS TO REQUIREMENTS THAT AFFECT THIS DIVISION OR SECTION. THE WORK REQUIRED UNDER THIS SECTION INCLUDES MATERIAL, EQUIPMENT, APPLIANCES, TRANSPORTATION, SERVICES, AND LABOR REQUIRED TO COMPLETE THE ENTIRE SYSTEM AS REQUIRED BY THE DRAWINGS AND SPECIFICATIONS.

THE SPECIFICATIONS AND DRAWINGS FOR THE PROJECT ARE COMPLEMENTARY, AND PORTIONS OF THE WORK DESCRIBED IN ONE SHALL BE PROVIDED AS IF DESCRIBED IN BOTH. IN THE EVENT OF DISCREPANCIES, NOTIFY THE ENGINEER AND REQUEST CLARIFICATION PRIOR TO PROCEEDING WITH THE WORK INVOLVED.

DEFINITIONS

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION AND SIMILAR OPERATIONS."

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."

PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

FURNISHED BY OWNER OR FURNISHED BY OTHERS: THE ITEM WILL BE FURNISHED BY THE OWNER OR OTHERS. IT IS TO BE INSTALLED AND CONNECTED UNDER THE REQUIREMENTS OF THIS DIVISION, COMPLETE AND READY FOR OPERATION, INCLUDING ITEMS INCIDENTAL TO THE WORK, INCLUDING SERVICES NECESSARY FOR PROPER INSTALLATION AND OPERATION. THE INSTALLATION SHALL BE INCLUDED UNDER THE GUARANTEE REQUIRED BY THIS DIVISION.

AHJ: THE LOCAL CODE AND/OR INSPECTION AGENCY (AUTHORITY) HAVING JURISDICTION OVER THE WORK.

THE TERMS "APPROVED EQUAL", "EQUIVALENT", OR "EQUAL" ARE USED SYNONYMOUSLY AND SHALL MEAN "ACCEPTED BY OR ACCEPTABLE TO THE ENGINEER AS EQUIVALENT TO THE ITEM OR MANUFACTURER SPECIFIED". THE TERM "APPROVED" SHALL MEAN LABELED, LISTED, OR BOTH, BY A NATIONALLY RECOGNIZED TESTING LABORATORY (E.G. UL, ETL, CSA), AND ACCEPTABLE TO THE AHJ OVER THIS PROJECT.

COORDINATION

COORDINATE WORK WITH THAT OF OTHER TRADES SO THAT THE VARIOUS COMPONENTS OF THE SYSTEMS WILL BE INSTALLED AT THE PROPER TIME, WILL FIT THE AVAILABLE SPACE, AND WILL ALLOW PROPER SERVICE ACCESS TO THOSE ITEMS REQUIRING MAINTENANCE. COMPONENTS WHICH ARE INSTALLED WITHOUT REGARD TO THE ABOVE SHALL BE RELOCATED AT NO ADDITIONAL COST TO THE OWNER.

UNLESS OTHERWISE INDICATED, THE GENERAL CONTRACTOR WILL PROVIDE CHASES AND OPENINGS IN BUILDING CONSTRUCTION REQUIRED FOR INSTALLATION OF THE SYSTEMS SPECIFIED HEREIN. CONTRACTOR SHALL FURNISH THE GENERAL CONTRACTOR WITH INFORMATION WHERE CHASES AND OPENINGS ARE REQUIRED. KEEP INFORMED AS TO THE WORK OF OTHER TRADES ENGAGED IN THE CONSTRUCTION OF THE PROJECT AND EXECUTE WORK IN A MANNER AS TO NOT INTERFERE WITH OR DELAY THE WORK OF OTHER TRADES.

FIGURED DIMENSIONS SHALL BE TAKEN IN PREFERENCE TO SCALE DIMENSIONS. CONTRACTOR SHALL TAKE HIS OWN MEASUREMENTS AT THE BUILDING, AS VARIATIONS MAY OCCUR. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ERRORS THAT COULD HAVE BEEN AVOIDED BY PROPER CHECKING AND INSPECTION.

PROVIDE MATERIALS WITH TRIM THAT WILL PROPERLY FIT THE TYPES OF CEILING, WALL, OR FLOOR FINISHES ACTUALLY INSTALLED. MODEL NUMBERS LISTED IN THE SPECIFICATIONS OR SHOWN ON THE DRAWINGS ARE NOT INTENDED TO DESIGNATE THE REQUIRED TRIM.

WARRANTIES

WARRANT EACH SYSTEM AND EACH ELEMENT THEREOF AGAINST ALL DEFECTS DUE TO FAULTY WORKMANSHIP, DESIGN OR MATERIAL FOR A PERIOD OF 12 MONTHS FROM DATE OF SUBSTANTIAL COMPLETION, UNLESS SPECIFIC ITEMS ARE NOTED TO CARRY A LONGER WARRANTY IN THE CONSTRUCTION DOCUMENTS OR MANUFACTURER'S STANDARD WARRANTY EXCEEDS 12 MONTHS. REMEDY ALL DEFECTS, OCCURRING WITHIN THE WARRANTY PERIOD(S), AS STATED IN THE GENERAL CONDITIONS AND DIVISION 1.

WARRANTIES SHALL INCLUDE LABOR AND MATERIAL. MAKE REPAIRS OR REPLACEMENTS WITHOUT ANY ADDITIONAL COSTS TO THE OWNER.

PERFORM THE REMEDIAL WORK PROMPTLY, UPON WRITTEN NOTICE FROM THE ENGINEER OR OWNER.

AT THE TIME OF SUBSTANTIAL COMPLETION, DELIVER TO THE OWNER ALL WARRANTIES, IN WRITING AND PROPERLY EXECUTED, INCLUDING TERM LIMITS FOR WARRANTIES EXTENDING BEYOND THE ONE YEAR PERIOD, EACH WARRANTY INSTRUMENT BEING ADDRESSED TO THE OWNER AND STATING THE COMMENCEMENT DATE AND TERM.

CUTTING AND PATCHING

PERFORM CUTTING OF WALLS, FLOORS, CEILINGS, ETC. AS REQUIRED TO INSTALL WORK UNDER THIS SECTION. OBTAIN PERMISSION FROM THE ARCHITECT PRIOR TO CUTTING. DO NOT CUT OR DISTURB STRUCTURAL MEMBERS WITHOUT PRIOR APPROVAL FROM THE ARCHITECT. CUT HOLES AS SMALL AS POSSIBLE. GENERAL CONTRACTOR SHALL PATCH WALLS, FLOORS, ETC. AS REQUIRED BY WORK UNDER THIS SECTION. PATCHING SHALL MATCH THE ORIGINAL MATERIAL AND CONSTRUCTION. REPAIR AND REFINISH AREAS DISTURBED BY WORK TO THE CONDITION OF ADJOINING SURFACES IN A MANNER SATISFACTORY TO THE ARCHITECT.

CONCRETE BASES

PROVIDE CONCRETE BASES FOR EQUIPMENT WHERE INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN. CONCRETE BASES SHALL HAVE CHAMFERED EDGES. SIZE OF PAD SHALL BE A MINIMUM OF 4" GREATER THAN THE FOOTPRINT OF THE EQUIPMENT THAT IT IS SUPPORTING AND SHALL HAVE A MINIMUM HEIGHT OF 3–1/2".

CONSTRUCT EQUIPMENT BASES AND HOUSEKEEPING PADS OF A MINIMUM 28 DAY, 4000 PSI CONCRETE CONFORMING TO AMERICAN CONCRETE INSTITUTE STANDARD BUILDING CODE FOR REINFORCED CONCRETE (ACI 318–19) AND THE LATEST APPLICABLE RECOMMENDATIONS OF THE ACI STANDARD PRACTICE MANUAL. CONCRETE SHALL BE COMPOSED OF CEMENT CONFORMING TO ASTM C 150 TYPE I, AGGREGATE CONFORMING TO ASTM C33, AND POTABLE WATER. EXPOSED EXTERIOR CONCRETE SHALL CONTAIN 5 TO 7 PERCENT AIR ENTRAINMENT.

PROVIDE GALVANIZED ANCHOR BOLTS FOR EQUIPMENT PLACED ON CONCRETE EQUIPMENT BASES AND HOUSEKEEPING PADS OR ON CONCRETE SLABS. ANCHOR BOLTS SIZE, NUMBER AND PLACEMENT SHALL BE AS RECOMMENDED BY THE MANUFACTURER OF THE EQUIPMENT.

ACCESS DOORS

PROVIDE ACCESS DOORS IN CEILINGS, WALLS, ETC. WHERE INDICATED OR REQUIRED FOR ACCESS OR MAINTENANCE TO CONCEALED VALVES AND EQUIPMENT INSTALLED UNDER THIS SECTION. PROVIDE CONCEALED HINGES, SCREWDRIVER–TYPE LOCK, ANCHOR STRAPS; MANUFACTURED BY MILCOR, ZURN, TITUS, OR EQUAL. OBTAIN ARCHITECT'S APPROVAL OF TYPE, SIZE, LOCATION AND COLOR BEFORE ORDERING.

PENETRATIONS

PROVIDE SLEEVES FOR PIPES PASSING THROUGH ABOVE GRADE CONCRETE OR MASONRY WALLS, CONCRETE FLOOR OR ROOF SLABS. SLEEVES ARE NOT REQUIRED FOR CORE DRILLED HOLES IN EXISTING MASONRY WALLS, CONCRETE FLOORS OR ROOFS. PROVIDE 10 GAUGE GALVANIZED STEEL SLEEVES FOR SLEEVES 6" AND SMALLER. PROVIDE GALVANIZED SHEET METAL SLEEVES FOR LARGER THAN 6". SCHEDULE 40 PVC SLEEVES ARE ACCEPTABLE FOR INSTALLATION IN AREAS WITHOUT RETURN AIR PLENUMS.

SEAL ELEVATED FLOOR, EXTERIOR WALL AND ROOF PENETRATIONS WATERTIGHT AND WEATHERTIGHT WITH NON–SHRINK, NON–HARDENING COMMERCIAL SEALANT. PACK WITH MINERAL WOOL AND SEAL BOTH ENDS WITH MINIMUM OF 1/2" OF SEALANT. SEAL AROUND PENETRATIONS OF FIRE RATED ASSEMBLIES. COORDINATE FIRE RATINGS AND LOCATIONS WITH THE ARCHITECTURAL DRAWINGS. REFER TO ARCHITECTURAL SPECIFICATIONS FOR FIRE STOPPINGS. PROVIDE A PRODUCT SCHEDULE FOR UL LISTING, LOCATION, WALL OR FLOOR RATING AND INSTALLATION DRAWING FOR EACH PENETRATION FIRE STOP SYSTEM.

EXTEND PIPE INSULATION FOR INSULATED PIPE THROUGH FLOOR, WALL AND ROOF PENETRATIONS, INCLUDING FIRE RATED WALLS AND FLOORS. THE VAPOR BARRIER SHALL BE MAINTAINED. SIZE SLEEVE FOR A MINIMUM OF 1" ANNULAR CLEAR SPACE BETWEEN INSIDE OF SLEEVE AND OUTSIDE OF INSULATION.

PROVIDE PREFABRICATED ROOF CURBS MANUFACTURED BY CUSTOM CURB, INC., PATE COMPANY, THYCURB OR APPROVED EQUAL. PROVIDE ROOF CURB WITH FACTORY INSTALLED WOOD NAILER; WELDED, 18 GAUGE GALVANIZED STEEL SHELL, BASE PLATE AND FLASHING; 1–1/2" THICK, 3 POUND RIGID INSULATION; FULLY MITERED 3–INCH RAISED CANT; COVER OF WEATHER–RESISTANT, WEATHER–PROOF MATERIAL AND PIPE COLLAR OF WEATHER–RESISTANT MATERIAL WITH STAINLESS STEEL PIPE CLAMPS.

PROVIDE BOX FRAMES FOR RECTANGULAR OPENINGS WELDED 12 GAUGE GALVANIZED STEEL ATTACHED TO FORMS AND OF A MAXIMUM DIMENSION ESTABLISHED BY THE ARCHITECT. NOTIFY THE GENERAL CONTRACTOR OR ARCHITECT BEFORE INSTALLING ANY BOX OPENINGS NOT SHOWN ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS.

SEAL CONCRETE OR MASONRY EXTERIOR WALL PENETRATIONS BELOW GRADE WITH "WALL PIPES" AND MECHANICAL SLEEVE SEALS. PROVIDE CAST IRON "WALL PIPES" WITH INTEGRAL WATERSTOP RING MANUFACTURED BY JOSAM, JAY R. SMITH, WADE, WATTS OR ZURN. PROVIDE MODULAR MECHANICAL SLEEVE SEALS, MANUFACTURED BY THUNDERLINE / LINK SEAL, CALPICO, INC. AND METRAFLEX.

SEAL ELEVATED CONCRETE SLAB WITH WATERPROOF MEMBRANE PENETRATIONS WITH "WALL PIPES" AND WATER PROOF SEALANT. SECURE WATERPROOF MEMBRANE FLASHING BETWEEN "WALL PIPE" CLAMPING FLANGE AND CLAMPING RING. PROVIDE CAST IRON "WALL PIPES" WITH INTEGRAL WATERSTOP RING MANUFACTURED BY JOSAM, JAY R. SMITH, WADE, WATTS OR ZURN.

PROVIDE SLEEVES FOR HORIZONTAL PIPE PASSING THROUGH OR UNDER FOUNDATION. SLEEVES SHALL BE CAST IRON SOIL PIPE TWO NOMINAL PIPE SIZES LARGER THAN THE PIPE SERVED.

PROVIDE SCHEDULE 40 PVC PIPE SLEEVES FOR VERTICAL PRESSURE PIPE PASSING THROUGH CONCRETE SLAB ON GRADE. SLEEVES SHALL BE ONE NOMINAL PIPE SIZE LARGER THAN THE PIPE SERVED AND TWO PIPE SIZES LARGER THAN PIPE SERVED FOR DUCTILE IRON PIPES WITH RESTRAINING RODS. SEAL WATER–TIGHT WITH SILICONE CAULK.

PROVIDE 1/2" THICK CELLULAR FOAM INSULATION AROUND PERIMETER OF NON–PRESSURE PIPE PASSING THRU CONCRETE SLAB ON GRADE. INSULATION SHALL EXTEND TO 2" ABOVE AND BELOW THE CONCRETE SLAB.

ELECTRICAL WIRING

LINE VOLTAGE WIRING SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR. LINE VOLTAGE CONTROL AND INTERLOCK WIRING FOR MECHANICAL SYSTEMS SHALL ALSO BE PROVIDED BY ELECTRICAL CONTRACTOR. LOW VOLTAGE CONTROL WIRING SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR. FURNISH WIRING DIAGRAMS TO THE ELECTRICAL CONTRACTOR AS REQUIRED FOR PROPER EQUIPMENT HOOKUP. COORDINATE WITH THE ELECTRICAL CONTRACTOR THE ACTUAL WIRE SIZING AMPS FOR MECHANICAL EQUIPMENT (FROM THE EQUIPMENT NAMEPLATE) TO ENSURE PROPER INSTALLATION.

FINAL TESTING AND ADJUSTMENTS

FINAL SYSTEM TESTING, BALANCING AND ADJUSTMENTS SHALL BE PERFORMED BY A CONTRACTOR CERTIFIED BY THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB), ASSOCIATED AIR BALANCE COUNCIL (AABC) OR OTHER APPROVED AGENCY. PERFORM TEST READINGS ON FANS, UNITS, COILS, ETC. AND ADJUST EQUIPMENT TO DELIVER SPECIFIED AMOUNTS OF AIR. PREPARE TESTING AND BALANCING REPORT LOG SHOWING AIR SUPPLY QUANTITIES, AIR ENTERING AND LEAVING TEMPERATURES AND PRESSURES, FAN AND UNIT TEST READINGS, MOTOR VOLTAGE AND AMP DRAWS, ETC., AND SUBMIT SIX COPIES OF THE FINAL COMPILATION OF DATA TO THE ARCHITECT FOR EVALUATION AND APPROVAL BEFORE FINAL INSPECTION OF THE PROJECT. BALANCE AIR SYSTEMS TO WITHIN PLUS OR MINUS 10 PERCENT FOR TERMINAL DEVICES AND BRANCH LINES AND PLUS OR MINUS 5 PERCENT FOR MAIN DUCTS AND AIR HANDLING EQUIPMENT OF THE AMOUNT OF AIR SHOWN ON THE DRAWINGS. FURTHER ADJUSTMENTS SHALL BE MADE TO OBTAIN UNIFORM TEMPERATURE IN SPACES. ADJUST EQUIPMENT TO OPERATE AS INTENDED BY THE SPECIFICATION. ALIGN BEARINGS AND REPLACE BEARINGS THAT HAVE DIRT OR FOREIGN MATERIAL IN THEM WITH NEW BEARINGS WITHOUT ADDITIONAL COST TO THE OWNER. BALANCE CONTRACTOR SHALL INCLUDE IN THE REPORT ANY IMPROPERLY INSTALLED OR MISSING BALANCING DEVICES THAT WOULD NEGATIVELY IMPACT THE SYSTEM OPERATION.

ADJUST THERMOSTATS AND CONTROL DEVICES TO OPERATE AS INTENDED. ADJUST BURNERS, PUMPS, FANS, ETC. FOR PROPER AND EFFICIENT OPERATION. CERTIFY TO ARCHITECT THAT ADJUSTMENTS HAVE BEEN MADE AND THAT SYSTEM IS OPERATING SATISFACTORILY. FURTHER ADJUSTMENTS SHALL BE MADE TO OBTAIN UNIFORM TEMPERATURE IN SPACES. CALIBRATE, SET, AND ADJUST AUTOMATIC TEMPERATURE CONTROLS. CHECK PROPER SEQUENCING OF INTERLOCK SYSTEMS, AND OPERATION OF SAFETY CONTROLS.

EQUIPMENT FURNISHED BY OTHERS

PROVIDE NECESSARY EQUIPMENT AND ACCESSORIES THAT ARE NOT PROVIDED BY THE EQUIPMENT SUPPLIER OR OWNER TO COMPLETE INSTALLATION OF COOKING EQUIPMENT, WASHING EQUIPMENT, ETC., FURNISHED BY OTHERS, IN LOCATIONS AS INDICATED ON THE DRAWINGS AND/OR DESCRIBED IN THE GENERAL NOTES TO THIS CONTRACTOR. EQUIPMENT AND ACCESSORIES NOT PROVIDED BY THE EQUIPMENT SUPPLIER MAY INCLUDE FLUES, VENTS, INTAKES, ASSOCIATED ROOF JACKS AND CAPS TO OUTDOORS, DAMPERS, IN–LINE FANS, ROOF FANS, CONTROL INTERLOCKS, ETC. AS REQUIRED FOR PROPER OPERATION OF THE COMPLETE SYSTEM IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECT ROUGH–IN DIMENSIONS AND SHALL VERIFY SAME WITH ARCHITECT AND/OR EQUIPMENT SUPPLIER PRIOR TO SERVICE INSTALLATIONS.

DUCT INSULATION

PROVIDE DUCT LINER IN CONCEALED RECTANGULAR SUPPLY AND RETURN AIR DUCTWORK. LINER SHALL BE 1–1/2" THICK, 1–1/2" POUND DENSITY FIBERGLASS, MINIMUM R–6.0 CERTAINTEED CORP. "TOUGHGARD" OR EQUIVALENT OWENS–CORNING OR KNAUF LONG TEXTILE FIBER DUCT LINER. LINER SURFACE SHALL SERVE AS A BARRIER AGAINST INFILTRATION OF DUST AND DIRT, SHALL MEET ASTM C 1338 FOR FUNGI RESISTANCE AND SHALL BE CLEANABLE USING DUCT CLEANING METHODS AND EQUIPMENT OUTLINED BY NORTH AMERICAN INSULATION MANUFACTURERS ASSOCIATION (NAIMA) DUCT CLEANING GUIDE. INSTALL WITH LINER ADHESIVE AND MECHANICAL FASTENERS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. DUCTWORK SIZES SHOWN ON DRAWINGS ARE INSIDE CLEAR DIMENSIONS. INCREASE SHEET METAL BY LINER THICKNESS IN BOTH DIRECTIONS WHERE LINER IS INSTALLED.

COVER CONCEALED, RIGID DUCTWORK WITH 2" THICK, 3/4 POUND DENSITY, MINIMUM R–6.0 DUCT WRAP, CERTAINTEED OR EQUIVALENT OWENS–CORNING OR KNAUF WITH HEAVY–DUTY FOIL–SCRIM–KRAFT FACING, AND WITH JOINTS TAPED WITH 3" WIDE FOIL TAPE AS FOLLOWS:

A. ROUND AND/OR RECTANGULAR SUPPLY AND RETURN AIR DUCTWORK.

B. ROUND AND RECTANGULAR OUTSIDE AIR DUCTWORK.

C. ROUND AND RECTANGULAR EXHAUST AND RELIEF AIR DUCTWORK WITHIN 10 FEET OF EXTERIOR DISCHARGE.

INSULATING MATERIALS, ADHESIVES, COATINGS, ETC., SHALL NOT EXCEED FLAME SPREAD RATING OF 25 AND SMOKE DEVELOPED RATING OF 50 PER ASTM E 84. CONTAINERS FOR MASTICS AND ADHESIVES SHALL HAVE U.L. LABEL.

FOR DUCTWORK THAT IS LOCATED EXTERIOR TO THE BUILDING AND INSTALLED WITH SEAMS SEALED WITH SEALANT, PROVIDE 2" (MINIMUM R–8.0) THICK, 3 POUND DENSITY LINER. FOR WELDED DUCTWORK THAT IS EXTERIOR TO THE BUILDING, INSULATE WITH 2" (MINIMUM R–8.0) THICK FIBROUS BOARD INSULATION AND PROVIDE MINIMUM 20 GAUGE ALUMINUM JACKET OR 2" (MINIMUM R–8.0) THICK FLEXIBLE ELASTOMERIC CLOSED CELL INSULATION SIMILAR TO ARMACELL ARMATUFF PLUS WITH A WEATHER AND UV RESISTANT LAMINATED METAL FOIL AND POLYESTER MEMBRANE AROUND A SCRIM REINFORCED CORE. SEAL ALL EXPOSED EDGES.

DUCTWORK

PROVIDE GALVANIZED STEEL DUCTWORK AND HOUSINGS AS SHOWN ON DRAWINGS. CONSTRUCT DUCTWORK INCLUDING FITTINGS AND TRANSITIONS IN CONFORMANCE WITH CURRENT SMACNA STANDARDS RELATIVE TO GAUGE, BRACING, JOINTS, ETC. MINIMUM THICKNESS OF DUCT SHALL BE 26–GAUGE SHEET METAL. REINFORCE HOUSINGS AND DUCTWORK OVER 30" WITH 1–1/4" ANGLES NOT LESS THAN 5'–6" ON CENTERS, AND CLOSER IF REQUIRED FOR SUFFICIENT RIGIDITY TO PREVENT VIBRATION. SUPPORT HORIZONTAL RUNS OF DUCT FROM STRAP IRON HANGERS ON CENTERS NOT TO EXCEED 8'–0". DO NOT SUPPORT CEILING GRID, CONDUITS, PIPES, EQUIPMENT, ETC. FROM DUCTWORK. COORDINATE ROUTING OF DUCTWORK WITH OTHER CONTRACTORS SUCH THAT PIPING, ELECTRICAL CONDUIT, AND ASSOCIATED SUPPORTS ARE NOT ROUTED THROUGH THE DUCTWORK.

CONSTRUCT SUPPLY DUCTS TO MEET SMACNA POSITIVE PRESSURE OF 2" W.G. CONSTRUCT RETURN, OUTDOOR AND EXHAUST DUCTWORK UPSTREAM OF FANS TO MEET SMACNA NEGATIVE PRESSURE OF 2" W.G. CONSTRUCT EXHAUST DUCTWORK DOWNSTREAM OF FANS TO MEET SMACNA POSITIVE PRESSURE OF 2" W.G.

PROVIDE MILL PHOSPHATIZED OR GALVANEALED FINISH FOR EXPOSED DUCTWORK TO BE FIELD PAINTED. SHOP TREATED SHEET METAL SHALL HAVE GALVANIZED METAL PRIMER APPLIED IN THE SHOP AFTER FABRICATION AND PRIOR TO SHIPPING.

DUCTWORK ABOVE ROOF OR OTHERWISE EXTERIOR TO BUILDING SHALL BE MINIMUM #18 GAUGE WITH LONGITUDINAL AND TRANSVERSE JOINTS WELDED OR SEALED AIRTIGHT WITH WEATHERPROOF HEAVY LIQUID SEALANT APPLIED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.

SEAL DUCTWORK WITH HEAVY LIQUID SEALANT, HARDCAST IRONGRIP 601, DESIGN POLYMER DP 1010, UNITED MCGILL DUCT SEALER OR APPROVED EQUAL, APPLIED ACCORDING TO SEALANT MANUFACTURER'S INSTRUCTIONS. FOR DUCTS WITH PRESSURE CLASSIFICATION OF 2" W.G. AND GREATER SEAL LONGITUDINAL AND TRANSVERSE DUCTWORK JOINTS AIRTIGHT TO MEET SMACNA CLASS B. FOR DUCTS WITH PRESSURE CLASSIFICATION LESS THAN 2" W.G. SEAL TRANSVERSE JOINTS AIRTIGHT TO MEET SMACNA CLASS C. TAPES AND MASTICS SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 181A.

PROVIDE RADIUS ELBOWS, TURNS, AND OFFSETS WITH A MINIMUM CENTERLINE RADIUS OF 1–1/2 TIMES THE DUCT WIDTH. WHERE SPACE DOES NOT PERMIT FULL RADIUS ELBOWS, PROVIDE SHORT RADIUS ELBOWS WITH A MINIMUM OF TWO CONTINUOUS SPLITTER VANES. VANES SHALL BE THE ENTIRE LENGTH OF THE BEND. PROVIDE MITERED ELBOWS WHERE SPACE DOES NOT PERMIT RADIUS ELBOWS, WHERE SHOWN ON THE DRAWINGS, OR AT THE OPTION OF THE CONTRACTOR WITH THE ENGINEER'S APPROVAL. MITERED ELBOWS LESS THAN 45 DEGREES SHALL NOT REQUIRE TURNING VANES. MITERED ELBOWS 45–DEGREES AND GREATER SHALL HAVE SINGLE THICKNESS TURNING VANES OF SAME GAUGE AS DUCTWORK, RIGIDLY FASTENED WITH GUIDE STRIPS IN DUCTWORK. VANES FOR MITERED ELBOWS SHALL BE PROVIDED IN ALL SUPPLY AND EXHAUST DUCTWORK AND IN RETURN AND OUTSIDE AIR DUCTWORK THAT HAS AN AIR VELOCITY EXCEEDING 1000 FPM. DO NOT INSTALL VANES IN GREASE DUCTWORK.

DUCTS SHALL BE CONNECTED TO FANS, FAN CASINGS AND FAN PLENUMS BY MEANS OF FLEXIBLE CONNECTORS. FLEXIBLE CONNECTORS SHALL BE NEOPRENE COATED GLASS CLOTH CANVAS CONNECTIONS, DURO–DYNE, ELGEN, VENTFABRIC OR EQUAL. FLEXIBLE CONNECTORS SHALL HAVE A FLAME SPREAD OF 25 OR LESS AND SMOKE DEVELOPED RATING NOT HIGHER THAN 50. MAKE AIRTIGHT JOINTS AND INSTALL WITH MINIMUM 1–1/2" SLACK.

PROVIDE BALANCING DAMPERS, MANUFACTURED BY RUSKIN, GREENHECK, NAILOR INDUSTRIES, CESCO, LOUVERS & DAMPERS, POTTORFF OR APPROVED EQUAL, WHERE SHOWN ON DRAWINGS AND WHEREVER NECESSARY FOR COMPLETE CONTROL OF AIR FLOW. SPLITTER DAMPERS SHALL BE CONTROLLED BY LOCKING QUADRANTS; PROVIDE YOUNG REGULATOR OR VENTLOK END BEARINGS FOR THE DAMPER ROD. RECTANGULAR VOLUME DAMPERS SHALL BE OPPOSED BLADE INTERLOCKING TYPE. ROUND VOLUME DAMPERS SHALL BE BUTTERFLY TYPE CONSISTING OF CIRCULAR BLADE MOUNTED TO A SHAFT. DAMPER LEAKAGE FOR OUTSIDE AIR DAMPERS SHALL NOT EXCEED 4.0 CFM/SQUARE FOOT IN FULL CLOSED POSITION AT 1" WG PRESSURE DIFFERENTIAL ACROSS DAMPER. REFERENCE MANUFACTURER AND MODEL NUMBER FOR OUTSIDE AIR DAMPERS IS RUSKIN MODEL CD–50. PROVIDE FLEXMASTER MODEL STO OR EQUAL 45 DEGREE RECTANGULAR/ROUND SIDE TAKEOFF FITTING WITH MODEL SLBO DOUBLE BEARING DAMPER WITH INSULATION BUILD OUT FOR ROUND DUCTWORK BRANCH TAKEOFFS TO INDIVIDUAL AIR DEVICES. OMIT DAMPER AT TAKEOFF FITTING WHEN DAMPER IS LOCATED DOWNSTREAM OF TAKEOFF.

WHERE ACCESS TO DAMPERS THROUGH A HARD CEILING IS REQUIRED, PROVIDE A METROPOLITAN AIR TECHNOLOGY MODEL RT–250 OR EQUAL BY YOUNG'S REGULATOR CONCEALED, CABLE OPERATED VOLUME DAMPER WITH REMOTE OPERATOR. DAMPER SHALL BE ADJUSTABLE THROUGH THE DIFFUSER FACE OR FRAME WITH STANDARD 1/4" NUTDRIVER OR FLAT SCREWDRIVER. CABLE ASSEMBLY SHALL ATTACH TO DAMPER AS ONE PIECE WITH NO LINKAGE ADJUSTMENT. POSITIVE, DIRECT, TWO–WAY DAMPER CONTROL SHALL BE PROVIDED WITH NO SLEEVES, SPRINGS OR SCREW ADJUSTMENTS TO COME LOOSE AFTER INSTALLATION. SUPPORT CABLE ASSEMBLY TO AVOID BENDS AND KINKS IN CABLE. WHERE APPROVED BY ARCHITECT, A CEILING CUP WITH COVER PLATE CAN BE USED FOR ACCESS TO CABLE OPERATOR.

ROUND OR OVAL DUCTWORK SHALL BE SEMCO, UNITED, WESCO OR EQUAL, SHEETMETAL, WITH SMOOTH INTERIOR SURFACE, WITH LOW PRESSURE (DUCT PRESSURE CLASS UP TO AND INCLUDING 2" W.G.) ROUND DUCTWORK GAUGES PER THE FOLLOWING TABLE (REFERENCE SMACNA HVAC DUCT CONSTRUCTION STANDARDS FOR GAUGES WHEN PRESSURES EXCEED 2" W.G.):

SIZE	DUCT GAUGE	FITTING GAUGE
14" & UNDER	26	24
15" THRU 26"	24	22
28" THRU 36"	22	20
38" THRU 50"	20	20

LINDAB SPIROSAFE, LEWIS & LAMBERT OR APPROVED EQUAL FACTORY–MANUFACTURED ROUND DUCTWORK AND FITTINGS MAY BE SUBSTITUTED FOR SPECIFIED ROUND BRANCH DUCTWORK, AT CONTRACTORS OPTION. HEAVY LIQUID JOINT SEALANT MAY BE OMITTED ON FACTORY–MANUFACTURED ROUND DUCTWORK.

LOW PRESSURE (DUCT PRESSURE CLASS UP TO AND INCLUDING 2" W.G.) FITTINGS 24" IN DIAMETER AND LESS SHALL BE PREFABRICATED, SPOTWELDED AND INTERNALLY SEALED. CONTINUOUSLY WELD FITTINGS LARGER THAN 24" IN DIAMETER. FITTING GAUGE SHALL BE 22 GAUGE FOR 36" FITTINGS AND UNDER, 20 GAUGE FOR LARGER SIZES. 90 DEGREE TEE'S SHALL BE CONICAL TYPE. SEAL LONGITUDINAL AND TRANSVERSE DUCTWORK JOINTS AIRTIGHT WITH HEAVY LIQUID SEALANT APPLIED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.

FLEXIBLE DUCT

LOW PRESSURE (DUCT PRESSURE CLASS UP TO AND INCLUDING 2" W.G.) AND MEDIUM PRESSURE (DUCT PRESSURE CLASS 2.1" TO 6" W.G.) FLEXIBLE DUCT SHALL BE FLEXMASTER TYPE 8B, THERMAFLEX TYPE G–KM, M–KE, OR EQUAL (FIRE RETARDANT POLYETHYLENE) PROTECTIVE VAPOR BARRIER, U.L.181 CLASS 1, ACOUSTICAL INSULATED DUCT, R–6.0 FIBERGLASS INSULATION. PROVIDE CPE LINER WITH STEEL WIRE HELIX MECHANICALLY LOCKED OR PERMANENTLY BONDED TO THE LINER.

FLEXIBLE DUCT RUNS SHALL NOT EXCEED 5 FEET IN LENGTH AND SHALL BE INSTALLED FULLY EXTENDED AND STRAIGHT AS POSSIBLE AVOIDING TIGHT TURNS. INSTALL FLEXIBLE DUCT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. SUPPORT FLEXIBLE DUCT AT MAXIMUM 5 FEET ON CENTER AND WITHIN 6 INCHES OF BENDS. BENDS SHALL NOT EXCEED A CENTERLINE RADIUS OF ONE DUCT DIAMETER. DUCT SAG SHALL NOT EXCEED 1/2 INCH. SUPPORTING MATERIAL IN DIRECT CONTACT WITH THE DUCT SHALL NOT BE LESS THAN 1–1/2 INCHES IN WIDTH.

CONNECT FLEXIBLE DUCT TO RIGID METAL DUCT OR AIR DEVICES AS RECOMMENDED BY THE MANUFACTURER. AT A MINIMUM, INSTALL TWO WRAPS OF DUCT TAPE AROUND THE INNER CORE CONNECTION AND A METALLIC OR NON–METALLIC CLAMP OVER THE TAPE AND TWO WRAPS OF DUCT TAPE OR A CLAMP OVER THE OUTER JACKET. DUCT CLAMPS SHALL BE LABELED IN ACCORDANCE WITH UL–181B AND MARKED 181B–C. DUCT TAPE SHALL BE LABELED IN ACCORDANCE WITH UL 181B AND MARKED 181B–FX.

FIRE DAMPERS

PROVIDE FIRE DAMPERS WHERE SHOWN ON DRAWINGS, AND AS REQUIRED BY CODE ENFORCING AUTHORITY. DAMPER RATINGS SHALL BE AS REQUIRED TO MAINTAIN THE FIRE AND/OR SMOKE RATINGS NOTED ON THE ARCHITECTURAL DRAWINGS. PROVIDE FIRE DAMPERS CONFORMING TO NFPA–90A AND UBC STANDARD 43–7 WITH RECOMMENDED STEEL SLEEVES OF LENGTH AS REQUIRED TO MEET THE INSTALLED LOCATION, 165°F FUSIBLE LINK, SPRING CATCHES AND NON–CORROSIVE BEARINGS. DAMPERS SHALL BE U.L. LISTED, MANUFACTURED BY RUSKIN, GREENHECK, AIR BALANCE, CESCO, UNITED AIR OR NAILOR INDUSTRIES. PROVIDE ACCESS DOOR, SIZED PER SMACNA WITH MINIMUM SIZE OF 10" BY 10", IN DUCT FOR INSPECTION AND SERVICE TO FIRE DAMPER AND FUSIBLE LINK.

PROVIDE DUCT ACCESS DOOR(S) WITHIN 12 INCHES OF THE DEVICE TO ALLOW FOR TESTING AND MAINTENANCE. LABEL EACH DOOR (WITH MINIMUM 1" LETTERING) INDICATING WHICH DAMPER TYPE IS SERVED. DOOR SHOULD BE CAPABLE OF BEING FULLY OPENED OR PROVIDE REMOVABLE DOOR. PROVIDE REMOVABLE SECTION OF DUCT WHERE DUCT SIZE IS TOO SMALL FOR 10" BY 10" ACCESS DOOR. PROVIDE ACCESS DOOR IN CEILING OR WALL AS REQUIRED TO ACCESS DAMPER.

COMBINATION FIRE/SMOKE DAMPERS

PROVIDE COMBINATION FIRE/SMOKE DAMPERS WHERE SHOWN ON DRAWINGS AND AS REQUIRED BY CODE ENFORCING AUTHORITY WITH FIRE/SMOKE RATINGS AS REQUIRED TO MAINTAIN THE FIRE RATING NOTED ON THE ARCHITECTURAL DRAWINGS. DAMPERS SHALL MEET UL 555 CLASSIFICATION FOR FIRE RATING AND UL 555S CLASSIFICATION OF LEAKAGE CLASS II SMOKE DAMPER; DAMPER SHALL BEAR A UL LABEL ATTESTING TO THESE CLASSIFICATIONS. PROVIDE FIRE DAMPER WITH A 165° F RESETTABLE TEMPERATURE DEVICE. RATE FIRE/SMOKE DAMPERS FOR A MINIMUM VELOCITY OF 2,000 FPM AND PRESSURE OF 4" W.G. PROVIDE MANUFACTURER RECOMMENDED STEEL SLEEVE OF LENGTH AS REQUIRED TO MEET THE INSTALLED LOCATION. PROVIDE A QUALIFIED 120 VOLT ELECTRIC ACTUATOR INSTALLED BY THE MANUFACTURER AT TIME OF DAMPER FABRICATION. ACTUATORS SHALL BE RATED FOR A MINIMUM OF 20,000 CYCLES OF OPERATION, SHALL COMPLY WITH THE LOCALLY ADOPTED BUILDING CODE AND SHALL OPEN IN 15 SECONDS OR LESS AND CLOSE IN 15 SECONDS OR LESS AFTER ALARM OR SMOKE DETECTION HAS OCCURRED. PROVIDE STAINLESS–STEEL SPRING–LOADED LEAKAGE SEALS IN SIDES OF CASING, AND TERMINAL BLOCK FOR CONNECTION TO THE BUILDING FIRE ALARM SYSTEM. DAMPER SHALL BE MANUFACTURED BY RUSKIN, AIR BALANCE, GREENHECK, CESCO, UNITED AIR OR NAILOR INDUSTRIES.

PROVIDE ACCESS DOOR, SIZED PER SMACNA WITH MINIMUM SIZE OF 10" BY 10", IN DUCT FOR INSPECTION AND SERVICE TO FIRE DAMPER AND FUSIBLE LINK. PROVIDE DUCT ACCESS DOOR(S) WITHIN 12 INCHES OF THE DEVICE TO ALLOW FOR TESTING AND MAINTENANCE. LABEL EACH DOOR (WITH MINIMUM 1" LETTERING) INDICATING WHICH DAMPER TYPE IS SERVED. DOOR SHOULD BE CAPABLE OF BEING FULLY OPENED OR PROVIDE REMOVABLE DOOR. PROVIDE REMOVABLE SECTION OF DUCT WHERE DUCT SIZE IS TOO SMALL FOR 10" BY 10" ACCESS DOOR. PROVIDE ACCESS DOOR IN CEILING OR WALL AS REQUIRED TO ACCESS DAMPER.

REFRIGERANT PIPING AND INSULATION

PROVIDE ASTM B 88, TYPE L OR ASTM B 280, TYPE ACR HARD DRAWN COPPER REFRIGERANT PIPING, CLEANED AND SEALED AT THE FACTORY, AND SPECIFICALLY DESIGNED FOR REFRIGERANT. FITTINGS SHALL BE HARD DRAWN AND HAVE LONG RADIUS TURNS. SOLDER JOINTS WITH "SILFOS" (15 PERCENT SILVER, 5 PERCENT PHOSPHORUS, 80 PERCENT COPPER, 1300 DEGREES FAHRENHEIT FLOW TEMPERATURE). SOLDER JOINTS WITH A SLOW STREAM OF DRY NITROGEN PASSING THROUGH THE PIPING.

INSULATE SUCTION LINES WITH 1" AND LIQUID LINES WITH 1/2" FOAMED PLASTIC INSULATION, ARMAFLEX OR EQUAL. PIPING INSULATION SHALL HAVE A FLAME SPREAD OF 25 OR LESS, AND A SMOKE DEVELOPED RATING OF 50 OR LESS WHEN TESTED IN ACCORDANCE WITH ASTM E84. COAT INSULATION THAT IS EXPOSED TO THE ELEMENTS WITH A PROTECTIVE SEALER. INSTALL AND SUPPORT PIPING TO KEEP NOISE AND VIBRATION TO A MINIMUM. SUPPORT AND SECURE PIPING TO UNISTRUT TYPE SUPPORTS SO THAT NO VIBRATION PASSES TO THE BUILDING STRUCTURE. PIPE ATTACHMENTS SHALL BE COPPER–PLATED OR HAVE NONMETALLIC COATING FOR ELECTROLYTIC PROTECTION WHERE ATTACHMENTS ARE IN DIRECT CONTACT WITH COPPER TUBING. INSTALL A SUPPORT WITHIN ONE FOOT OF EACH CHANGE OF DIRECTION. MOUNT PIPE HANGERS AROUND THE OUTSIDE OF THE INSULATION WITH SADDLES TO PREVENT HANGERS FROM RUPTURING THE INSULATION. REPLACE INSULATION THAT IS CUT OR BROKEN BY THE HANGERS.

RUN REFRIGERANT LINES PARALLEL AND PERPENDICULAR TO WALL AND FLOOR LINES AND TO APPEAR STRAIGHT AND IN GOOD ORDER. PITCH SUCTION LINES DOWN SLIGHTLY (1" IN 20') TOWARDS THE COMPRESSOR. PROVIDE OIL TRAPS AT THE BASE OF VERTICAL SUCTION RISERS OVER 6 FEET HIGH.

INSTALL LIQUID LINE SIGHT GLASSES IN LIQUID LINES NEAREST THE EXPANSION VALVE. FACTORY MOUNT EXPANSION VALVES WITH THE SENSING BULBS SHIPPED LOOSE. FIELD MOUNT EXPANSION VALVE BULB AFTER REFRIGERANT PIPING IS COMPLETE (DAMAGE MAY OCCUR IF BULBS COME IN CONTACT WITH HEAT).

FOR SYSTEMS OF 5 TON CAPACITY AND SMALLER, THE CONTRACTOR SHALL HAVE THE OPTION TO PROVIDE COPPER REFRIGERANT TUBING LINE SET SIZED AS RECOMMENDED BY EQUIPMENT MANUFACTURER AND OF LENGTH AS REQUIRED FOR THE INSTALLATION. PROVIDE 1" THICK FOAMED PLASTIC INSULATION, ARMAFLEX OR EQUAL, ON THE SUCTION LINE. PROVIDE QUICK–CONNECT FLARE TUBING COMPRESSION FITTINGS OR SOLDER CONNECTIONS AS REQUIRED TO MATCH THE CONNECTIONS OF THE CONDENSING UNIT AND EVAPORATOR COIL.

TEMPERATURE CONTROLS

GENERAL REQUIREMENTS

PROVIDE A SYSTEM OF TEMPERATURE CONTROLS INCLUDING THERMOSTATS, CONTROL PANELS, TIME SWITCHES, OVERRIDE TIMERS, DAMPER MOTORS, AND RELAYS REQUIRED TO PROVIDE THE DESIRED SEQUENCE OF OPERATION. PROVIDE INTEGRATED WIRING DIAGRAMS SHOWING INTERCONNECTIONS BETWEEN FIELD INSTALLED EQUIPMENT AND PACKAGE WIRING FURNISHED WITH THE HVAC EQUIPMENT. CONTROL WIRING SHALL BE SIZED TO ACCOMMODATE THE VOLTAGE DROP ASSOCIATED WITH THE DISTANCE BETWEEN THE CONTROL DEVICE AND THE CONTROLLER.

PROVIDE SUPERVISION AND ON–JOB CHECKOUT SERVICE AS REQUIRED TO ENSURE THAT INSTALLATION MEETS REQUIREMENTS OF THE SPECIFICATION. THE SYSTEM SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FOLLOWING THE ACCEPTANCE OF THE SYSTEM BY THE ARCHITECT/ENGINEER. CORRECT DEFECTS OCCURRING DURING THIS PERIOD AT NO ADDITIONAL COST TO THE OWNER.

EQUIPMENT

MANUFACTURERS AND MODEL NUMBERS ARE LISTED FOR REFERENCE AS TO QUALITY AND FEATURES REQUIRED FOR THE CONTROL DEVICES. PROVIDE CONTROL DEVICES BY CARRIER, HONEYWELL, JOHNSON CONTROLS, TRANE OR WHITE RODGERS WITH QUALITY AND FEATURES AS INDICATED.

SEVEN DAY PROGRAMMABLE, OCCUPIED/UNOCCUPIED THERMOSTATS FOR CONTROL OF MULTIPLE STAGES OR MODULATION OF HEATING AND COOLING SYSTEMS AND FOR CONTROL OF ECONOMIZER SYSTEM SHALL BE HONEYWELL SERIES TH7000 OR EQUAL. PROVIDE REMOTE SENSOR WITH OVERRIDE BUTTON AND +/–3 DEGREE SETPOINT ADJUSTMENT AT REMOTE SENSOR. INSTALL THERMOSTATS AT 48" AFF TO MEET ADA REQUIREMENTS UNLESS OTHERWISE NOTED ON THE PLANS.

PROVIDE DAMPER OPERATOR FOR EACH AUTOMATIC DAMPER WITH SUFFICIENT CAPACITY TO OPERATE THE DAMPER UNDER ALL CONDITIONS AND TO GUARANTEE TIGHT CLOSE–OFF OF DAMPERS AGAINST SYSTEM PRESSURE ENCOUNTERED. EACH OPERATOR SHALL BE PROVIDED WITH SPRING–RETURN FOR NORMALLY CLOSED OR NORMALLY OPEN POSITION FOR FAIL SAFE OPERATION TO ACCOUNT FOR FIRE, LOW TEMPERATURES, OR POWER INTERRUPTION AS REQUIRED BY THE SEQUENCE OF OPERATION. DAMPER OPERATORS SHALL BE MANUFACTURED BY BELIMO, JOHNSON CONTROLS OR APPROVED EQUAL.

ROOFTOP UNIT CONTROL (FIXED DRY BULB ECONOMIZER)

DURING OCCUPIED HOURS, OPERATE ROOFTOP UNIT SUPPLY FAN CONTINUOUSLY AND OPEN OUTDOOR AIR DAMPER TO MINIMUM POSITION TO MAINTAIN MINIMUM VENTILATION. CYCLE STAGE(S) OF COOLING AND HEATING TO MAINTAIN ROOM THERMOSTAT SET POINT (75 DEGREES FAHRENHEIT COOLING, 72 DEGREES FAHRENHEIT HEATING). ENABLE DRY BULB TYPE OUTDOOR AIR ECONOMIZER FOR FIRST STAGE COOLING TO MAINTAIN DISCHARGE AIR TEMPERATURE SET POINT (55 DEGREES F, ADJUSTABLE) WHEN OUTDOOR AMBIENT TEMPERATURE REACHES 70 DEGREES FAHRENHEIT OR BELOW. RETURN THE ECONOMIZER TO MINIMUM POSITION WHEN AMBIENT TEMPERATURE IS ABOVE 70° DEGREES FAHRENHEIT OR WHEN DISCHARGE AIR TEMPERATURE DROPS BELOW 50 DEGREES FAHRENHEIT. SMOKE DETECTORS SHALL SHUTDOWN UNIT UPON ALARM.

DURING UNOCCUPIED HOURS, CYCLE THE ROOFTOP UNIT SUPPLY FAN AND COOLING OR HEATING SYSTEM TO MAINTAIN UNOCCUPIED SETBACK TEMPERATURE SET POINTS. OUTDOOR AIR DAMPER SHALL BE CLOSED DURING UNOCCUPIED HOURS.

REGISTRATION SEAL

SEAL 035265
ROBERT L. QUEATHEM
4/16/25

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SCOOTER'S® COFFEE
EST. 1998

REV	DATE	DESCRIPTION	BY
1			
2			
3			
4			
5			
6			
7			
8			
9			

TITLE:
MECHANICAL SPECIFICATIONS

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

KIOSK PROTOTYPE:
4.2 REVERSE PROTOTYPE
JUNE 2024

ISSUE DATE:
03/21/2024

PROJECT NO.
240761

DRAWN BY:
FM

CHECKED BY:
ACR

SHEET NO.
M3.0

PLUMBING SYMBOLS

NOTE: THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS, ETC. ARE NECESSARILY USED ON THE DRAWINGS.

ANNOTATION

- (1) PLUMBING PLAN NOTE CALLOUT
- (1) PLUMBING EQUIPMENT DESIGNATION. (CONTRACTOR FURNISHED AND INSTALLED). REFER TO PLUMBING FIXTURE SCHEDULES.
- [1] EQUIPMENT DESIGNATION (OWNER FURNISHED, CONTRACTOR INSTALLED)
- (CU 1) MECHANICAL EQUIPMENT DESIGNATION (CONTRACTOR FURNISHED AND INSTALLED UNLESS NOTED OTHERWISE)
- CONNECTION POINT OF NEW WORK TO EXISTING
- (1 / P1) DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	MAX	MAXIMUM
AFG	ABOVE FINISHED GRADE	MBH	1000 BTU PER HOUR
BFF	BELOW FINISHED FLOOR	MIN	MINIMUM
BFG	BELOW FINISHED GRADE	ORD	OVERFLOW ROOF DRAIN
BOP	BOTTOM OF PIPE	PDI	PLUMBING DRAINAGE INSTITUTE
BOS	BOTTOM OF STRUCTURE	PVC	POLYVINYL CHLORIDE
BTU	BRITISH THERMAL UNIT	PRV	PRESSURE REDUCING VALVE
CPVC	CHLORINATED POLYVINYL CHLORIDE	RD	ROOF DRAIN
DN	DOWN	RPM	REVOLUTIONS PER MINUTE
DS	DOWNSPOUT	SF	SQUARE FEET, SUPPLY FAN
ETR	EXISTING TO REMAIN	SP	SUMP PUMP
FFA	FROM FLOOR ABOVE	TDH	TOTAL DYNAMIC HEAD
FFB	FROM FLOOR BELOW	TFA	TO FLOOR ABOVE
FF	FINISHED FLOOR	TFB	TO FLOOR BELOW
FLA	FULL LOAD AMPS	TYP	TYPICAL
FLR	FLOOR	UL	UNDERWRITERS LABORATORIES,INC.
GPM	GALLONS PER MINUTE	VS	VENT STACK
HD	HEAD, HUB DRAIN	VTR	VENT THROUGH ROOF
IE	INVERT ELEVATION	W/	WITH
IN WC	INCHES OF WATER COLUMN	W/O	WITHOUT
kW	KILOWATT	WC	WATER COLUMN
MAU	MAKE-UP AIR UNIT	WS	WASTE STACK

PIPING

- DOMESTIC COLD WATER (CW)
- SCW — SOFTENED COLD WATER (SCW)
- FW — FILTERED COLD WATER (FW)
- DOMESTIC HOT WATER (HW)
- DOMESTIC HOT WATER RECIRC. (HWR)
- 140° — 140° DOMESTIC HOT WATER (140°)
- T — TRAP PRIMER LINE (T)
- S — SOIL PIPING – ABOVE FLOOR (S)
- S — SOIL PIPING – BELOW FLOOR (S)
- W — WASTE PIPING – ABOVE FLOOR (W)
- W — WASTE PIPING – BELOW FLOOR (W)
- GW — GREASE WASTE – ABOVE FLOOR (GW)
- GW — GREASE WASTE – BELOW FLOOR (GW)
- ST — STORM DRAIN – ABOVE FLOOR (ST)
- ST — STORM DRAIN – BELOW FLOOR (ST)
- OST — OVERFLOW STORM DRAIN – ABOVE FLOOR (OST)
- VBG — VENT BELOW GRADE (VBG)
- VBF — VENT BELOW FLOOR (VBF)
- CD — CONDENSATE DRAIN (CD)
- SPD — SUMP OR SEWAGE PUMP DISCHARGE (SPD)
- G — NATURAL GAS (G)
- G — NATURAL GAS ON ROOF (G)
- MPG — MEDIUM PRESSURE NATURAL GAS (MPG)
- MPG — MEDIUM PRESSURE NATURAL GAS ON ROOF (MPG)
- LPG — LIQUIFIED PETROLEUM GAS (LPG)
- EXISTING PIPING TO BE REMOVED
- ETR — EXISTING PIPING TO REMAIN (ETR)
- V — VENT PIPING (V)
- BALL VALVE
- CONTROL VALVE
- SHUTOFF VALVE
- CHECK VALVE
- BALANCING VALVE WITH PRESSURE PORTS
- WATER METER
- STRAINER
- STRAINER WITH BLOWOFF
- RELIEF/SAFETY VALVE
- SOLENOID VALVE
- PRESSURE REDUCING VALVE
- GAS PRESSURE REGULATOR
- THERMOSTATIC MIXING VALVE
- BACKFLOW PREVENTER
- PRESSURE GAUGE
- THERMOMETER
- UNION
- FLANGE CONNECTION
- HOSE BIBB (HB)
- NONFREEZE WALL HYDRANT (NW)
- MANUAL/AUTOMATIC AIR VENT OR RELIEF VALVE
- CLEANOUT
- CAP
- WALL CLEANOUT (WCO)
- FLOOR CLEANOUT (FCO)
- EXTERIOR CLEANOUT (ECO)
- ELBOW UP
- ELBOW DOWN
- TEE UP
- TEE DOWN
- WATER HAMMER ARRESTER (WHA)
- RECIRCULATION PUMP
- P-TRAP
- GAS COCK
- TRAP PRIMER
- TRAP PRIMER WITH DISTRIBUTION UNIT

GENERAL PLUMBING NOTES:

A. DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT THE GENERAL SCOPE OF THE WORK. PRIOR TO SUBMITTING BID, VISIT THE JOB SITE TO OBSERVE THE EXISTING CONDITIONS OF THE PROJECT. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND PLANS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY OWNER'S CONSTRUCTION MANAGER OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.

B. PROVIDE A CONSTRUCTION RECORD SET OF "AS-BUILT" DOCUMENTS TO THE OWNER'S CONSTRUCTION MANAGER REFLECTING ANY VARIANCES OF INSTALLED PIPING LOCATIONS OR EQUIPMENT CONTRARY TO THE CONSTRUCTION DOCUMENTS, REFER TO SPECIFICATIONS.

C. PROVIDE TO THE OWNER'S CONSTRUCTION MANAGER A COPY OF INSPECTION REPORTS AND APPROVAL CERTIFICATES FROM LOCAL AND STATE INSPECTIONS, REFER TO SPECIFICATIONS.

D. INSTALLATION SHALL COMPLY WITH LEGALLY CONSTITUTED CODES AND THE REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION AND ALSO MEET ALL REQUIREMENTS OF THE LANDLORD. OBTAIN A COPY OF THE LANDLORD'S REQUIREMENTS AND REVIEW PRIOR TO SUBMITTING BID.

E. PLANS AND SPECIFICATIONS GOVERN WHERE THEY EXCEED CODE REQUIREMENTS.

F. VERIFY LOCATION AND DEPTH OF UTILITIES AT POINTS OF CONNECTION BEFORE START OF PIPING INSTALLATION.

G. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF PLUMBING FIXTURES.

H. DO NOT SCALE FLOOR PLANS FOR EXACT HORIZONTAL LOCATION OF PIPE ROUTING.

I. INSTALL CONCEALED PIPING TIGHT TO THE STRUCTURE AND AS HIGH AS POSSIBLE. INSTALL EXPOSED PIPING TIGHT TO THE STRUCTURE, WALL OR CEILING AND AS HIGH AS POSSIBLE. COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS.

J. VALVES SHALL BE LINE SIZE UNLESS OTHERWISE NOTED.

K. PIPING IN FINISHED AREAS SHALL BE ROUTED CONCEALED; EXPOSED PIPING, WHERE NECESSARY, SHALL BE ROUTED AS HIGH AS POSSIBLE AND TIGHT TO WALLS.

L. COORDINATE ALL WORK WITH OTHER TRADES AND CONTRACTORS.

M. COORDINATE PIPING INSTALLATION WITH STRUCTURAL GRADE BEAMS, FOOTINGS, COLUMN PIERS, ETC. SLEEVE PIPING THROUGH GRADE BEAMS, FOOTING, ETC. WHERE REQUIRED AND AS NOTED ON PLANS. COORDINATE SLEEVE INSTALLATIONS WITH THE ARCHITECT, STRUCTURAL ENGINEER, STRUCTURAL CONTRACTOR AND GENERAL CONTRACTOR BEFORE CONCRETE IS INSTALLED.

N. CLEAN FAUCET AERATORS AND PIPE STRAINERS PRIOR TO TURNING BUILDING OVER TO THE OWNER.

O. PROVIDE TRAP PRIMERS WHERE REQUIRED BY LOCAL AUTHORITIES.

P. COORDINATE PIPE ROUTING AWAY FROM ELECTRICAL PANELS. DO NOT INSTALL PIPING OVER ELECTRICAL PANELS.

Q. PAINT ALL EXPOSED GAS AND WATER PIPING USING RUST INHIBITOR PAINT. PAINT AND COLOR SHALL BE COORDINATED WITH THE ARCHITECT AND / OR OWNER.

R. COORDINATE ALL ROOF PENETRATIONS WITH OTHER TRADES. MAINTAIN 10' MINIMUM CLEARANCE FROM ALL AIR INTAKES. MAINTAIN 2' CLEARANCE FROM ALL OTHER EQUIPMENT.

S. INSULATE PIPING ROUTED IN EXTERIOR BUILDING WALLS WITH MINIMUM 2" BATT INSULATION TO PREVENT FREEZING.

T. SEAL ALL PENETRATIONS THROUGH RATED WALLS AND CEILINGS.

U. EXAMINE THE CONTRACT DRAWINGS AND ALL AVAILABLE INFORMATION CONCERNING EXISTING INSTALLATION, STRUCTURE, AND LOCAL CONDITIONS. VISIT THE SITE TO UNDERSTAND THE NATURE AND SCOPE OF ALL WORK TO BE PERFORMED AND VERIFY EXISTING CONDITIONS. THE SUBMISSION OF A BID WILL BE TAKEN AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE AND THAT ALL EXISTING CONDITIONS HAVE BEEN CONSIDERED. NO ALLOWANCES WILL BE MADE AFTER THE PROJECT HAS BEEN AWARDED FOR FAILURE TO VERIFY EXISTING CONDITIONS. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THAT OF THESE DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.

PLUMBING FIXTURE SCHEDULE:

FIXTURES IN THIS SCHEDULE OR THEIR APPROVED EQUIVALENT ARE PROVIDED BY THE PLUMBING CONTRACTOR. SUBMIT SHOP DRAWINGS ON EACH OF THESE ITEMS. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION AND INSTALLATION REQUIREMENTS. VERIFY ROUGH-IN REQUIREMENTS WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE PLUMBING FIXTURE MOUNTING HEIGHTS.

(BFP) DUAL CHECK VALVE WITH ATMOSPHERIC PORT: ZURN WILKINS 740, 300 STAINLESS STEEL BODY, 3/8" INLET AND OUTLET, ATMOSPHERIC PORT, AND WYE PATTERN STRAINER. MEETS ASSE 1022 STANDARDS.

(ECO) EXTERIOR CLEANOUT: ZURN Z1474-N SERIES DUCO CAST IRON DOUBLE FLANGED HOUSING WITH HEAVY DUTY SECURED SCORIATED CAST IRON COVER WITH LIFTING DEVICE AND CLEANOUT BODY WITH ABS PLASTIC PLUG WITH GASKET SEAL AND PUSH-ON JOINT. REFER TO SPECIFICATIONS FOR INSTALLATION.

(ET) EXPANSION TANK: AMTROL "THERM-X-TROL" # ST-5, WELDED STEEL PRESSURE TANK, POLYPROPYLENE LINING, FLEXIBLE BUTYL DIAPHRAGM, AIR CHARGING VALVE, 150 PSI MAXIMUM WORKING PRESSURE, 2.0 GALLON CAPACITY, 0.45 MAXIMUM ACCEPTANCE FACTOR, 3/4" PIPE CONNECTION. SET THE AIR CHARGE PRESSURE TO MATCH EXISTING WATER SYSTEM PRESSURE.

(FCO) FLOOR CLEANOUT: ZURN C02450-AB3 ADJUSTABLE FLOOR CLEANOUT, 3 INCH ABS HUB CONNECTION, 4" SIZE AVAILABLE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

(FD) FLOOR DRAIN: ZURN # FD2210, PVC OR ABS BODY, ADJUSTABLE NICKEL BRONZE HEAD AND SECURED GRATE.

(FS) FLOOR SINK: SIOUX CHIEF 861, PVC BODY WITH SCH 40 HUB CONNECTION, PVC STRAINER.

(GT) GREASE TRAP: SCHIER PRODUCTS GB2, HDPE SEAMLESS HIGH DENSITY POLYETHYLENE BODY, 20 GALLON CAPACITY AND RATED FLOW RATE OF 50 GPM AND 127.6 POUNDS OF GREASE STORED, WITH INTEGRAL INLET AND OUTLET DIFFUSERS WITH ANIT-SIPHON AIR RELIEF, GASKETED PEDESTRIAN RATED COVERS WITH EXTENSIONS AS REQUIRED.

(HB) HOSE BIBB: PRIER PRODUCTS # C-244, ANTI-FREEZING, ANTI-SIPHON VACUUM BREAKER, POWDER COATED CAST ALUMINUM HANDLE, INTEGRAL BACKFLOW CHECK VALVE, VANDAL PROOF EXTENDED LOCKSHIELD AND OPERATING KEY, SOLID BRASS BODY, AVAILABLE VARIOUS 1/2" & 3/4" INLET STYLES.

(LV) WALL MOUNTED LAVATORY (ADA ACCESSIBLE): TOTO MODEL #LT307 21" x 18-1/4" RECTANGULAR WALL MOUNTED WHITE VITREOUS CHINA FIXTURE WITH FAUCET LEDGE AND FRONT OVERFLOW. SINGLE HOLE.
FAUCET: CHICAGO FAUCET #802-VE2805XKCP 4" CENTERSET VANDAL RESISTANT, FAUCET WITH #390 LEVER HANDLES, CERAMIC QUARTER TURN CARTRIDGES AND #E2805 0.5 GPM AERATOR.
TRIM: McGUIRE #155A GRID DRAIN WITH TAILPIECE, McGUIRE #2165CLK LOOSE KEY COMPRESSION ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS, McGUIRE #B8872CF 1-1/4" 17 GAUGE CAST CHROME PLATED BRASS ADJUSTABLE P-TRAP AND WASTE ARM WITH CLEANOUT PLUG AND ESCUTCHEON, CONCEALED ARM CARRIER WITH STANCHIONS TO FLOOR, AND PLUMBEREX "PRO-EXTREME" #X-4222 INSULATION KIT FOR WATER AND WASTE PIPES.

(MS) MOP SINK: STERN-WILLIAMS # MTB-2424, 24" X 24" X 10" HIGH TERRAZZO BASIN WITH INTEGRAL STAINLESS STEEL DRAIN BODY.
FAUCET: CHICAGO FAUCET # 897-CP FAUCET WITH WALL BRACE, INTEGRAL VACUUM BREAKER, PAIL HOOK, AND 3/4" MALE HOSE THREADED OUTLET. SERVICE FAUCET IN WALL WITH BACKBOARD.
TRIM: # BP TYPE 304, 20 GAUGE, STAINLESS STEEL WALL SURROUNDS, # T-35 THREE FOOT LONG REINFORCED HOSE WITH 3/4" CHROME COUPLING AND WALL HOOK, # V-70 EXTRUDED VINYL BUMPER GUARD, AND # T-40 24" STAINLESS STEEL MOP HANGER.

(RPZ) REDUCED PRESSURE ZONE BACKFLOW PREVENTER: WATTS # LF009QT-S, LEAD FREE CAST BRONZE BODY, QUARTER TURN TEST COCKS, QUARTER TURN BALL VALVES, BRONZE STRAINER, AND # 909AG AIR GAP FITTING.

(TMV) THERMOSTATIC MIXING VALVE: POWERS # e480, SOLID BRASS BODY, THERMOSTATIC WAX ELEMENT, CORROSION RESISTANT INTERNAL PARTS, AND INTEGRAL CHECKS, ASSE 1070 COMPLIANT, CAPABLE OF 2.2 GPM WITH A 20 PSI DIFFERENTIAL AND A MINIMUM FLOW RATE OF 0.5 GPM. SET TEMPERATURE TO 110F FOR DUEL TEMPERATURE LAVATORIES AND HAND SINKS, 100F FOR SINGLE TEMPERATURE LAVATORIES AND HAND SINKS AND 120F FOR SINKS. MOUNT BELOW THE PLUMBING FIXTURE WHERE INDICATED ON PLAN(S).

(TS) TRAP SEAL: ProSet SYSTEMS "TRAP GUARD" INSERT FOR ACTUAL FLOOR DRAIN MODEL AND SIZE PROVIDED, FLEXIBLE ELASTOMERIC PVC MATERIAL MOLDED INTO SHAPE OF DUCK'S BILL, OPEN ON TOP WITH CURL CLOSURE AT BOTTOM. ALLOWS WASTEWATER TO OPEN AND ADEQUATELY DISCHARGE FLOOR DRAIN THROUGH ITS INTERIOR. CLOSES AND RETURNS TO ORIGINAL MOLDED SHAPE AFTER WASTEWATER DISCHARGE IS COMPLETE.

(WC) FLOOR-MOUNTED WATER CLOSET (ADA ACCESSIBLE): NIAGARA MODEL # LEFT HANDLE COMBO SKU: C44.302.01 RIGHT HANDLE COMBO SKU: C44.303.01 "BARRON" TANK TYPE WHITE VITREOUS CHINA FIXTURE WITH ELONGATED BOWL, 1.28 GALLON PER FLUSH, CLOSE COUPLED TANK WITH PRESSURE ASSISTED SIPHON JET ACTION SYSTEM. INSTALL SIDE MOUNTED CHROME TRIP LEVER ON THE WIDE SIDE OF THE STALL. LEFT HANDLE TANK MODEL 44.0322.01LCH RIGHT HANDLE TANK MODEL 44.0322.01RCH REFERENCE DRAWINGS FOR EXACT NUMBER OF RIGHT AND LEFT HAND TRIP LEVER TANKS REQUIRED.
TRIM: CENTOCO 500STSCC-001 WHITE OPEN-FRONT CONTOURED, SOLID PLASTIC, HEAVY DUTY, SEAT LESS COVER WITH SELF-SUSTAINING CHECK HINGES AND STAINLESS STEEL BOLTS, MCGUIRE # 2166CC ANGLE STOP VALVE WITH RISER AND CHROME-PLATED ESCUTCHEON.

(WCO) WALL CLEANOUT: SIOUX CHIEF #873 SERIES, BRASS COUNTERSUNK PLUG, 20 GAUGE STAINLESS STEEL COVER AND SCREW. CLEANOUT TEE TO BE PROVIDED SEPARATELY. REFER TO SPECIFICATIONS FOR INSTALLATION.

GREASE INTERCEPTOR CALCULATIONS

Quote: 396E4E3X

Reference No. 76430 — Project Name: Scooter's - Cameron, NC (2294)

Step 1: Flow rate to grease interceptor

Fixture flow rate: (cu in / 231) = gal x 0.75 / 2 min = 2 min flow rate

NAME	TYPE	DIMENSIONS	QTY	CU IN	FLOW RATE
#10 - 3 Comp	3 Compartment Sink	20" x 12" x 12" (3)	1	8,640	14.03 GPM
#24 - Mop Sink	Mop Basin	20" x 16" x 6"	1	1,920	3.12 GPM
#27 - Dipper Well	Dipper Well	N/A	1	N/A	2 GPM
#32A - Hand Sink	Hand Sink	10" x 14" x 9"	1	1,260	2.05 GPM
#33 - Dump Sink (1 bowl)	Dump Sink One Bowl	10" x 14" x 6"	1	840	1.36 GPM
Floor Drain	Floor Drain	N/A	3	N/A	0 GPM
Total					**22.55 GPM**

Step 2: Grease Production

Servings per day x Grease production value x Days between pump-outs = Grease output

Servings per day: 250
Grease production value: 0.005 lbs per serving (Coffee Shop: Low / No flatware)
Days between pump-outs: 90 days

250 x 0.005 x 90 = 112.5 lbs of FOG

SCHIER MODEL	
GB2	**Description:** GREASE INTERCEPTOR 35 GPM / 50 GPM, 4" FPT CONNECTIONS W/ 3" AND 4" PLAIN END ADAPTERS, PEDESTRIAN RATED POLYPROPYLENE COVER **Dimensions:** Length: 35", Width: 23", Height: 13.75" **Flow Rate/Grease Capacity:** 35 GPM / 130 lbs **Liquid Capacity:** 20 gal

LOW PRESSURE GAS PIPE SIZING CHART

PIPE SIZE	LOAD (CFH)
3/4"	105
1"	197
1-1/4"	404

OPERATING PRESSURE ("WC) =	7
PRESSURE DROP ("WC) =	0.5
DEVELOPED LENGTH (FEET) =	**100**
TOTAL LOAD (CFH) =	**289.0**

BASED ON NFPA 54 EQUATION 4-1

PLUMBING PIPE MATERIAL SCHEDULE

PIPING SYSTEM	ABBREVIATION	PIPING MATERIAL
SANITARY DRAINAGE & VENT (ABOVE GRADE)	S, W, GW OR V	HUBLESS CAST IRON (PVC DWV OPTIONAL)
SANITARY DRAINAGE & VENT (BELOW GRADE)	S, W, GW OR V	SERVICE WEIGHT CAST IRON (PVC DWV OPTIONAL)
POTABLE WATER (ABOVE GRADE)	CW, HW OR HWR	TYPE L HARD DRAWN COPPER (PEX TUBING UP TO 2" OPTIONAL)
POTABLE WATER - 2" & SMALLER (BELOW GRADE)	CW, HW OR HWR	TYPE K SOFT ANNEALED COPPER (CPVC SCHEDULE 80 OPTIONAL)
NATURAL GAS (ABOVE GRADE & ON ROOF)	G	SCHEDULE 40 BLACK STEEL
NATURAL GAS (BELOW GRADE)	G	APPROVED 'PE' PIPE FOR GAS
CONDENSATE DRAIN - 1" & SMALLER	CD	TYPE M HARD DRAWN COPPER (PVC DWV OPTIONAL)
INDIRECT DRAIN - 1-1/4" & LARGER	ID	TYPE DWV HARD DRAWN COPPER
REVERSE OSMOSIS	RO	CPVC PLASTIC SCHED 40 OR PEX TUBING

REFER TO SPECIFICATIONS FOR FITTINGS, INSTALLATION REQUIREMENTS AND FURTHER INFORMATION. PIPING MATERIALS WITHIN AIR PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AND LABELED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E84 OR UL 723. A PLENUM IS AN ENCLOSED PORTION OF THE BUILDING STRUCTURE, OTHER THAN AN OCCUPIABLE SPACE BEING CONDITIONED, THAT IS DESIGNED TO ALLOW AIR MOVEMENT.

WATER CALCULATIONS

TOTAL WATER SUPPLY FIXTURE UNITS	34.0
WATER GPM	22.0
PREDOMINANT WATER CLOSET FIXTURE TYPE	FLUSH TANK
PIPE SIZE (IN.)	1-1/4"
PIPING DEVELOPED LENGTH W/ 25% FOR FITTINGS (FT)	170
PRESSURE AT WATER METER (PSI)	65
1.00" METER LOSS INCLUDING TAP (PSI)	-2.8
1.00" BACKFLOW PREVENTER LOSS (PSI)	-14.0
HIGHEST FIXTURE ELEVATION (FT)	10
STATIC PRESSURE LOSS TO HIGHEST FIXTURE (H x 0.434)	-4.3
PRESSURE REQUIRED AT MOST REMOTE FIXTURE (PSI)	-20.0
TOTAL PRESSURE AVAILABLE FOR FRICTION LOSS	23.9
ALLOWABLE FRICTION FACTOR (23.86 PSI / 170 FT) x 100	14.0
USE 14 PSI PER 100 FEET PRESSURE DROP CHART	

KITCHEN FIXTURE CONNECTION SCHEDULE

TAG #	FIXTURE/EQUIPMENT	HOT WATER (IN.)	COLD WATER (IN.)	WASTE		GAS	NOTES
				INDIRECT	DIRECT		
2A	ICE MAKER		1/2"	3/4"			FILTERED WATER SYSTEM, BFP, DRAIN TO FS
2B	ICE STORAGE BIN			3/4"			DRAIN TO FS
6	COFFEE MAKER		1/2"				FILTERED WATER SYSTEM, BFP
9	ESPRESSO MACHINE		1/2"	3/4"			FILTERED WATER SYSTEM, BFP, DRAIN TO FS
10	3-COMPARTMENT SINK	3/4"	3/4"	3"			DRAIN TO FS
12	WATER STATION		1/2"	1-1/4"			FILTERED WATER SYSTEM, BFP, DRAIN TO FS
17	MOBILE ICE STORAGE BIN			3/4"			DRAIN TO FS
18	DECK MOUNT SINGLE FAUCET	1/2"					
21B	PITCHER RINSER SINK	1/2"	1/2"	2"			DRAIN TO FS
21C	HAND SINK	1/2"	1/2"		2"		TMV
22A	WATER TREATMENT SYSTEM		1/2"	1/4"			FILTERED WATER SYSTEM, RPZ, DRAIN TO FD
23A	WATER SOFTENER		1"				
27	DIPPER WELL		1/2"	1-1/2"			DRAIN TO FS
28	CUP RINSER		1/2"	3/4"			DRAIN TO FS
32	HAND SINK	1/2"	1/2"		2"		TMV

ELECTRIC WATER HEATER SCHEDULE

MARK	MANUFACTURER/ MODEL#	AREA SERVED	ENERGY SOURCE	TANK SIZE (GALLONS)	ELECTRICAL DATA			RECOVERY RATE (GPH)	NOTES
					VOLTS	PHASE	KW		
WH-1	STATE CSB 52 6 IFE	KITCHEN/ LAVS	ELECTRIC	50	240	1	8	31	A,D

NOTES:
A. 80°F TEMPERATURE RISE WITH 140°F OPERATING TEMPERATURE.
D. TRIPLE ELEMENT WIRED FOR SIMULTANEOUS OPERATION

RECIRCULATION PUMP SCHEDULE (IF REQUIRED)

MARK	MANUFACTURER / MODEL#	SERVICE	GPM	HEAD (FT.)	SUCTION & DISCHARGE SIZE	IMPELLER SIZE (IN.)	ELECTRICAL DATA			NOTES
							VOLTS	PHASE	FLA	
RP-1	BELL & GOSSETT # NBF-9U/LW	WH-1	2	7.0	SEE PLAN	N/A	120	1	0.40	A-D

NOTES:
A. ALL BRONZE BOOSTER.
B. PROVIDE WITH STRAINER UPSTREAM OF PUMP.
C. PROVIDE ADJUSTABLE, SURFACE MOUNTED AQUASTAT - HONEYWELL L6006C OR EQUIVALENT.
D. SET AQUASTAT TO SHUT OFF RECIRCULATION PUMP AT WATER HEATER SET POINT AND ON AT 10F BELOW SET POINT.

IPC WATER & WASTE FIXTURE UNITS

FIXTURE TYPE	QTY	D.F.U. (EA)	TOTAL D.F.U.	HOT S.F.U. (EA)	COLD S.F.U. (EA)	COMBINED S.F.U. (EA)	TOTAL S.F.U. (HOT)	TOTAL S.F.U. (COLD)	TOTAL SERVICE S.F.U.
PUBLIC LAVATORY	1	2.0	2.0	1.50	1.50	2.00	1.5	1.5	2.0
SERVICE SINK (MOP BASIN)	1	3.0	3.0	2.25	2.25	3.00	2.25	2.25	3.0
FLOOR DRAIN (2"DW)	3	2.0	6.0	0.00	0.00	0.00	0	0	0.0
FIRST WALL OR ROOF HYDRANT	1	0.0	0.0	0.00	5.00	5.00	0	5	5.0
EACH ADDITIONAL WALL OR ROOF HYDRANT	1	0.0	0.0	0.00	1.00	1.00	0	1	1.0
PUBLIC WATER CLOSET (1.28 GPF FLUSH TANK)	1	4.0	4.0	0.00	5.00	5.00	0	5	5.0
SPECIALTY KITCHEN EQUIP.									
WATER STATION	1	2.0	2.0	0.00	1.50	1.50	0	1.5	1.5
SINK (DUMP)	1	2.0	2.0	1.50	1.50	2.00	1.5	1.5	2.0
SINK (HAND)	3	2.0	6.0	1.50	1.50	2.00	4.5	4.5	6.0
SINK (3 COMPARTMENT)	1	3.0	3.0	3.00	3.00	4.00	3	3	4.0
ICE MACHINE (3/4" IW)	1	0.5	0.5	0.00	1.00	1.00	0	1	1.0
ESPRESSO MACHINE (3/4" IW)	3	0.5	1.5	0.00	0.50	0.50	0	1.5	1.5
COFFEE MAKER	1	0.0	0.0	0.00	0.50	0.50	0	0.5	0.5
DIPPER WELL (3/4" IW)	2	0.5	1.0	0.00	0.75	0.75	0	1.5	1.5
TOTAL UNITS:	21		31.0				12.8	29.8	34.0

FIXTURE BRANCH CONNECTION SCHEDULE

FIXTURE TYPE	COLD WATER	HOT WATER	WASTE	VENT
WATER CLOSET (TANK)	3/4"	–	4"	2"
LAVATORY	1/2"	1/2"	2"	2"
MOP SINK	1/2"	1/2"	3"	2"
FLOOR SINK	–	–	3"	2"
FLOOR DRAIN	–	–	2"	2"
HOSE BIB/ ROOF HYDRANT	3/4"	–	–	–

NOTE:
PIPE SIZES SHOWN ARE MINIMUM.

WATER PIPE SIZING CHART

FIXTURE UNITS VS. PRESSURE LOSS

IN PSI / 100 FEET WITH Copper Type L PIPING MATERIAL

	COLD WATER @ 14 PSI / 100'				HOT WATER @ 14 PSI / 100'		
PIPE SIZE	FLUSH TANK SFU (CW)	FLUSH VALVE SFU (CW)	VELOCITY FEET / SEC	FLOW GPM	FLUSH TANK SFU (HW)	VELOCITY FEET / SEC	FLOW GPM
1/2"	5.5	N/A	6.6	4.8	3.6	5.0	3.6
3/4"	16.1	N/A	8.0	12.1	9.1	5.0	7.5
1"	31.2	N/A	8.0	20.6	17.7	5.0	12.9
1-1/4"	56.7	14.3	8.0	31.3	29.2	5.0	19.6

REGISTRATION SEAL
NORTH CAROLINA PROFESSIONAL SEAL 035265 ENGINEER ROBERT L. QUEATHEM
4/16/25

ROBERT L. QUEATHEM
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1950 CRAIG ROAD, SUITE 300 — ST. LOUIS, MO 63146
PH. (314) 415-2400 — FAX (314) 415-2300 — www.arcv.com

SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
1			
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PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

KIOSK PROTOTYPE:
4.2 REVERSE PROTOTYPE
JUNE 2024

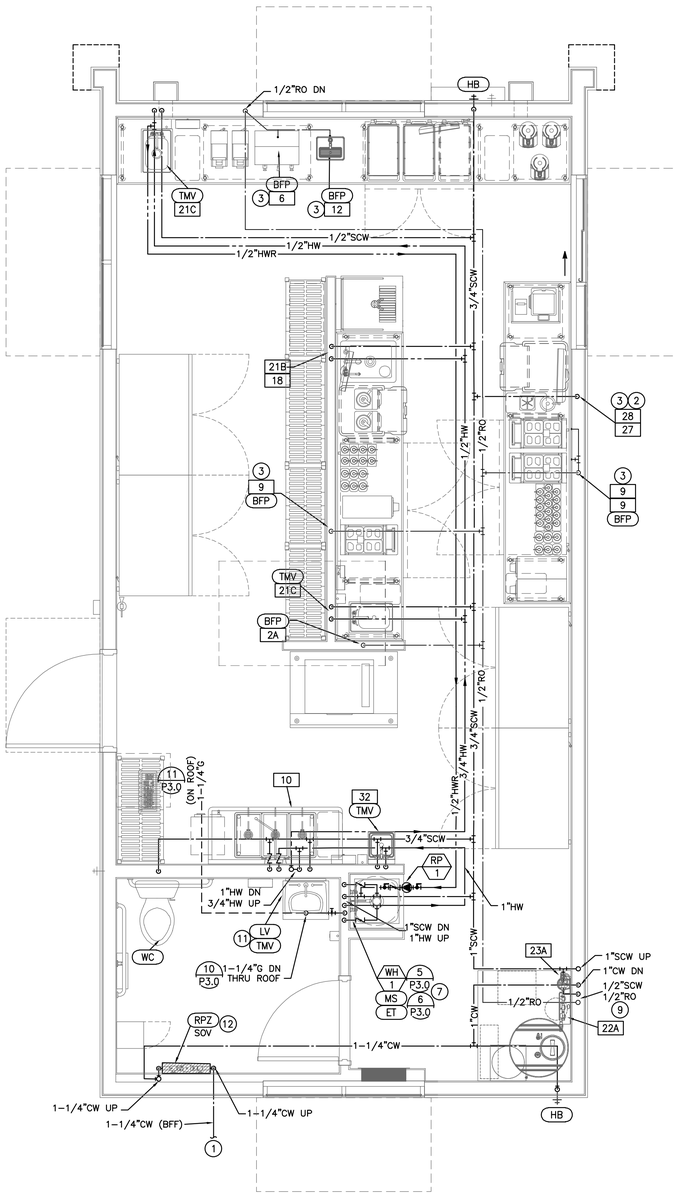
ISSUE DATE:
03/21/2024

PROJECT NO.
240761

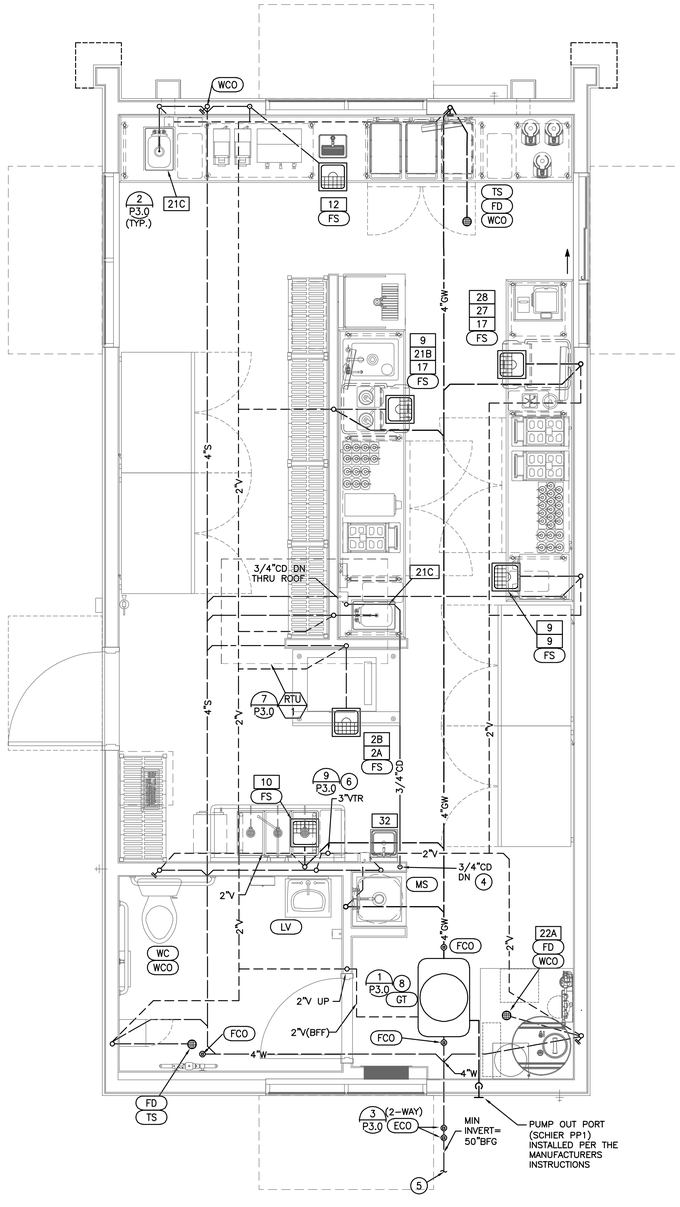
DRAWN BY:
CDH

CHECKED BY:
ACR

SHEET NO.
P0.1



1 WATER & GAS FLOOR PLAN
SCALE: 3/8"=1'-0"



2 SANITARY & VENT FLOOR PLAN
SCALE: 3/8"=1'-0"

PLUMBING PLAN NOTES:

1. SEE CIVIL DRAWINGS FOR CONTINUATION OF WATER SUPPLY. CONTRACTOR TO VERIFY LOCATION PRIOR TO INSTALLATION.
2. 1/2" SOFTENED COLD WATER DOWN IN WALL FOR 1/2" COLD WATER CONNECTION TO DIPPER WELL (27) AND RINSE SINK (28).
3. PROVIDE 1/2" SHUT-OFF VALVE, FINAL CONNECTION TO MACHINE MADE BY OTHERS.
4. ROUTE NEW 3/4" CONDENSATE LINE DOWN IN WALL TO DISCHARGE OVER MOP SINK WITH APPROVED AIR GAP.
5. SEE CIVIL DRAWINGS FOR CONTINUATION OF SANITARY SEWER LINE. VERIFY EXACT SIZE AND LOCATION PRIOR TO INSTALLATION.
6. ROUTE 3" VENT FROM TOP OF WASTE LINE UP THROUGH WALL.
7. TANK TYPE WATER HEATER ABOVE MOP SINK. ROUTE COLD WATER LINE AND GAS LINE TO WATER HEATER, AND HOT WATER LINE TO PLUMBING FIXTURES. CONNECT HOT WATER RETURN LINE TO WATER HEATER COLD LINE FROM RECIRCULATION PUMP.
8. NEW 50 GPM GREASE TRAP BELOW FINISHED FLOOR. COORDINATE EXACT LOCATION WITH OWNER AND WITH LOCATION OF EXISTING SANITARY PIPING.
9. REFER TO MANUFACTURER SPECIFICATION AND INSTALLATION MANUAL FOR ROUTING OF RO WATER SYSTEM.
10. NOT USED.
11. HOT WATER SERVING PUBLIC LAVS MAY NOT EXCEED 2'-0" IN LENGTH BETWEEN HOT WATER MAIN LINE AND PLUMBING FIXTURE. TO COMPLY W/IECC C404.5.1., ROUTE MAIN LINE DOWN IN WALL, AND TAP 1/2" HOT WATER LINE TO LAVATORY FAUCET. LOOP HOT WATER LINE BACK UP AND CONTINUE ROUTING TO OTHER PLUMBING FIXTURES SHOWN ON PLAN.
12. ROUTE AND DISCHARGE RPZ RELIEF PIPE TO EXTERIOR GRADE.

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PLUMBING PLANS

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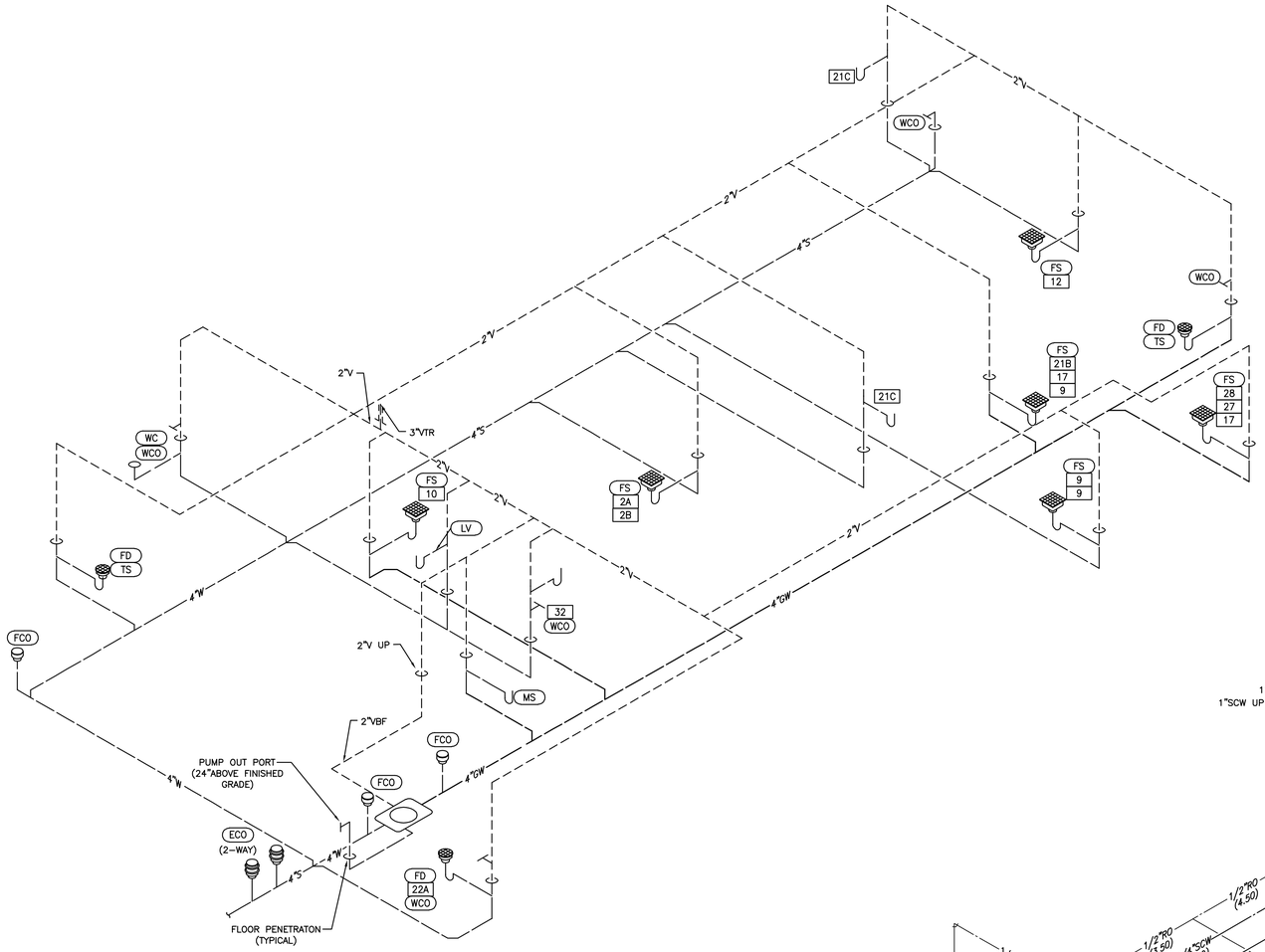
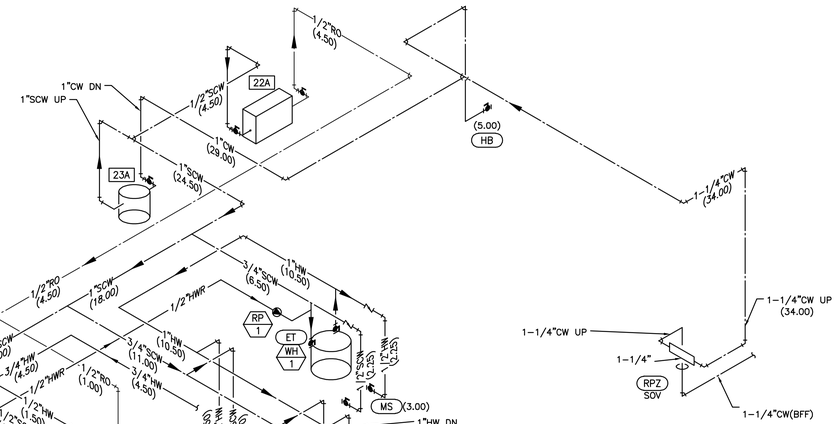
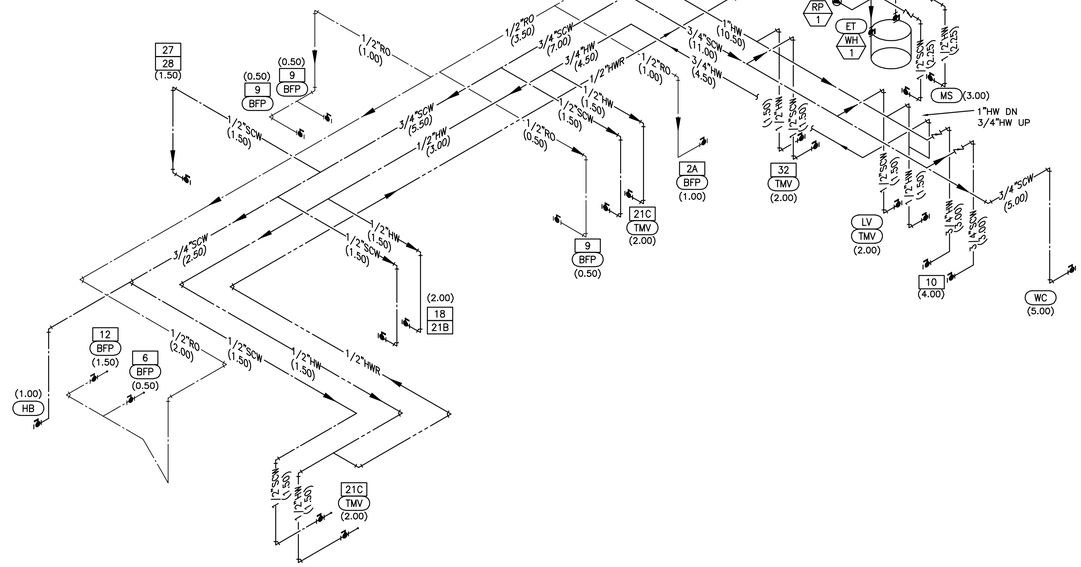


1 SANITARY & VENT RISER DIAGRAM
SCALE: NONE





3 WATER RISER DIAGRAM
SCALE: NONE

REGISTRATION SEAL
NORTH CAROLINA
PROFESSIONAL
SEAL
035265
ENGINEER
ROBERT L. QUEATHEM
4/16/25

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PLUMBING RISER DIAGRAMS

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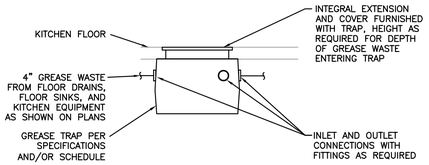
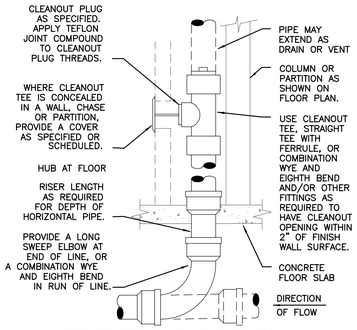


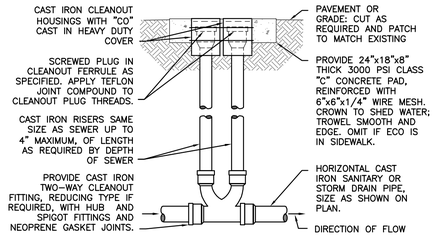
ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. LOCATE GREASE TRAP WHERE SHOWN ON PLAN IF POSSIBLE, OTHERWISE NOT WHERE PEOPLE STAND BUT WHERE COVER CAN BE EASILY REMOVED (FOR CLEANING). DETAIL IS FOR SLAB ON GRADE INSTALLATION; IF FLOOR SLAB IS NOT ON GRADE, COORDINATE INSTALLATION WITH STRUCTURE. REFER TO STRUCTURAL DRAWINGS. PROVIDE SUPPORTS HUNG FROM SLAB PER THE MANUFACTURER'S RECOMMENDATIONS. PROVIDE ANCHOR FLANGE WITH FLASHING CLAMP FOR SEALING WATER PROOF FLOOR MEMBRANE. REFER TO ARCHITECTURAL DRAWINGS.

1 GREASE TRAP INSTALLATION
NO SCALE



REFER TO SPECIFICATIONS AND SCHEDULES FOR MORE INFORMATION. PROVIDE WCO AT BASE OF RAIN-LEADER DOWNSPOUTS AND SOIL STACKS. PROVIDE WCO WHERE SHOWN ON PLAN, AND ON SANITARY WASTE BRANCHES LONGER THAN FIVE FEET NOT SERVED WITH A FLOOR CLEANOUT. LOCATE ABOVE FIXTURE FLOOD RIM WITHIN FOUR FEET OF FLOOR. CONSULT LOCAL CODES AND OFFICIALS FOR OTHER WCO REQUIREMENTS.

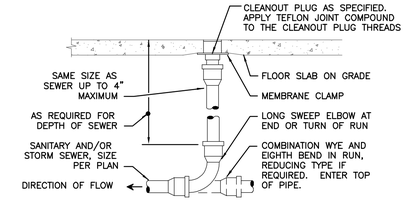
2 WALL CLEANOUT
NO SCALE



LOCATE EXTERIOR TWO-WAY CLEANOUT AT EXIT OF BUILDING DRAINS AND WHERE SHOWN ON PLAN. VERIFY SOIL/ROCK CONDITIONS WITH GEOTECHNICAL REPORT OR SITE EXAMINATION. PROVIDE EARTH BACKFILL AND COMPACTION PER ARCHITECTURAL SPECIFICATIONS. REFER TO SPECIFICATIONS AND SCHEDULES FOR MORE INFORMATION.

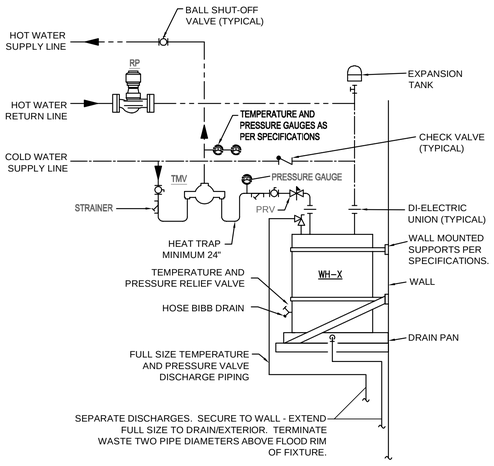
3 EXTERIOR TWO-WAY CLEANOUT
NO SCALE

PROVIDE CLEANOUT WITH ADJUSTABLE CLEANOUT TOP WITH VARIATIONS SUITABLE FOR FLOOR COVERING (CARPET MARKER, RECESSED FOR TILE, SCORIATED FOR UNFINISHED FLOORS). CLEAN THE TOP OF EXPOSED FCO AFTER INSTALLATION.



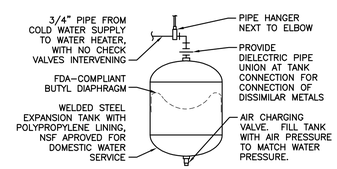
REFER TO SPECIFICATIONS AND SCHEDULE FOR MORE INFORMATION. LOCATE AT BUILDING EXIT, AT ENDS OF RUNS, AT TURNS OF PIPE GREATER THAN 45°, AT 50' INTERVALS ON STRAIGHT RUNS, AND/OR WHERE SHOWN ON PLANS AND RISERS. PROVIDE BACKFILL PER ARCHITECTURAL SPECIFICATIONS. LOCATE CLEANOUT WHERE THERE IS 18" CLEAR AROUND, FOR ACCESSIBILITY. CONSULT LOCAL CODES AND OFFICIALS FOR OTHER REQUIREMENTS.

4 FLOOR CLEANOUT
NO SCALE



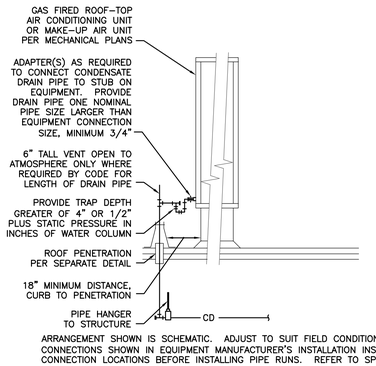
NOTES:
1. REFER TO PLUMBING SCHEDULE SHEET AND PLUMBING FLOOR PLANS FOR SIZING.
2. REFER TO MANUFACTURER FOR ADDITIONAL REQUIREMENTS.
3. REFER TO IN-LINE CIRCULATION PUMP DETAIL FOR ALL VALVE, STRAINER, AND GAUGE REQUIREMENTS.
4. PRESSURE REDUCING VALVE (PRV) ON THE OUTLET OF WATER HEATER SHALL BE SET AT 25 PSI.

5 ELECTRIC WATER HEATER DETAIL
NO SCALE



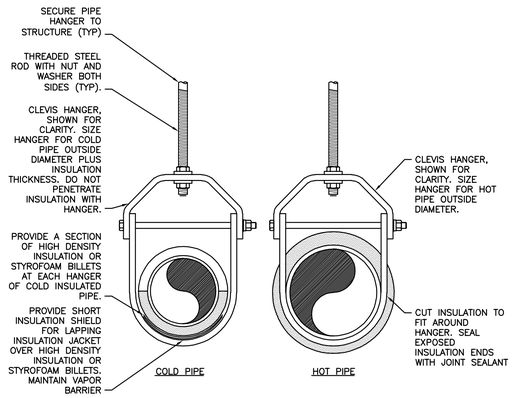
PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION PROCEDURE. VERIFY PROPER OPERATION WHEN INSTALLED. PROVIDE SEISMIC STRAP OR BRACING WHEN REQUIRED BY LOCAL AUTHORITIES.

6 SMALL EXPANSION TANK
NO SCALE



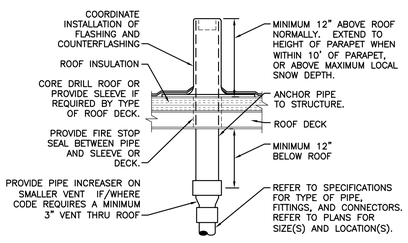
ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. PROVIDE CONNECTIONS SHOWN IN EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS. VERIFY CONNECTION LOCATIONS BEFORE INSTALLING PIPE RUNS. REFER TO SPECIFICATIONS FOR PIPE AND FITTING MATERIALS AND INSTALLATION. PROVIDE DIELECTRIC UNION IF CONNECTING DISSIMILAR METALS. FOR PIPE SIZE(S) REFER TO FLOOR PLANS, OR CODE REQUIREMENTS FOR HVAC UNIT TONNAGE. PROVIDE GAS COCK, UNION AND DIRT LEG SAME SIZE AS BRANCH PIPE. SLOPE CONDENSATE PIPE AS MUCH AS POSSIBLE TOWARD DISCHARGE, 2% MINIMUM. PROVIDE CLEANOUTS IN ENDS AND TURNS OF PIPE PER LOCAL CODE REQUIREMENTS: ADAPTER WITH THREADED CLEANOUT PLUG. OMIT CONDENSATE DRAIN ON MAKEUP AIR UNIT. PROVIDE MINIMUM 6" CLEARANCE TO ROOF UNDER PIPES.

7 CONNECTIONS TO ROOF-TOP UNIT
NO SCALE



REFER TO SPECIFICATIONS FOR INSULATION TYPES, INSULATION THICKNESSES, HANGER TYPES, HANGER ROD CONNECTIONS TO SRUCTURE AND HANGER SPACING.

8 INSULATED PIPE HANGER DETAIL
NO SCALE



LOCATE VTR MINIMUM THREE FEET FROM PROPERTY LINE, TEN FEET HORIZONTAL OR THREE FEET VERTICAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE, TWENTY FIVE FEET FROM ANY OPENING OR FRESH AIR INTAKE IN MEDICAL FACILITIES AND ONE FOOT FROM ANY VERTICAL SURFACE. REFER TO LOCAL CODES FOR OTHER VENT TERMINATION REQUIREMENTS. LOCATE VTR MINIMUM 18" FROM ADJACENT WALL, PARAPET, EXPANSION JOINT, ROOF DRAIN, EQUIPMENT CURB, OR OTHER ROOF FEATURE. OFFSET IN CEILING SPACE WHERE REQUIRED TO MEET THESE CONDITIONS. INSULATE LAST SIX FEET OF VENT PIPE INSIDE BUILDING PER SPECIFICATIONS.

9 VENT THRU ROOF ("VTR")
NO SCALE

REGISTRATION SEAL
NORTH CAROLINA PROFESSIONAL SEAL 035265 ENGINEER ROBERT L. QUEATHEM
4/16/25

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SCOOTER'S COFFEE EST. 1998

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TITLE:

PLUMBING DETAILS

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
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P3.0

PLUMBING SPECIFICATIONS

GENERAL REQUIREMENTS

REQUIREMENTS UNDER DIVISION ONE AND THE GENERAL AND SUPPLEMENTARY CONDITIONS OF THESE SPECIFICATIONS SHALL BE A PART OF THIS SECTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO BECOME THOROUGHLY ACQUAINTED WITH ITS CONTENTS AS TO REQUIREMENTS THAT AFFECT THIS DIVISION OR SECTION. WORK REQUIRED UNDER THIS SECTION INCLUDES MATERIAL, EQUIPMENT, APPLIANCES, TRANSPORTATION, SERVICES AND LABOR REQUIRED TO COMPLETE THE ENTIRE PLUMBING SYSTEM AS REQUIRED BY THE DRAWINGS AND SPECIFICATIONS.

THE SPECIFICATIONS AND THE DRAWINGS ARE COMPLEMENTARY, AND ANY PORTION OF WORK DESCRIBED IN ONE SHALL BE PROVIDED AS IF DESCRIBED IN BOTH. IN THE EVENT OF DISCREPANCIES ON THE DRAWINGS AND SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF SAME PRIOR TO PROCEEDING WITH THE WORK INVOLVED, IN ORDER THAT CORRECT PROGRESS OF THE WORK MAY BE PERFORMED.

DEFINITIONS

FURNISH: "TO SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION AND SIMILAR OPERATIONS."

INSTALL: "TO PERFORM ALL OPERATIONS AT THE PROJECT SITE INCLUDING, BUT NOT LIMITED TO, THE ACTUAL UNLOADING, UNPACKING, ASSEMBLING, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, TESTING, COMMISSIONING, STARTING UP AND SIMILAR OPERATIONS, COMPLETE, AND READY FOR THE INTENDED USE."

PROVIDE: "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

FURNISHED BY OWNER OR FURNISHED BY OTHERS: "AN ITEM FURNISHED BY THE OWNER OR UNDER OTHER DIVISIONS OR CONTRACTS, AND INSTALLED UNDER THE REQUIREMENTS OF THIS DIVISION, COMPLETE, AND READY FOR THE INTENDED USE, INCLUDING ALL ITEMS AND SERVICES INCIDENTAL TO THE WORK NECESSARY FOR PROPER INSTALLATION AND OPERATION. INCLUDE THE INSTALLATION UNDER THE WARRANTY REQUIRED BY THIS DIVISION."

AHJ: THE LOCAL CODE AND/OR INSPECTION AGENCY (AUTHORITY) HAVING JURISDICTION OVER THE WORK.

THE TERMS "APPROVED EQUAL", "EQUIVALENT", OR "EQUAL" ARE USED SYNONYMOUSLY AND SHALL MEAN "ACCEPTED BY OR ACCEPTABLE TO THE ENGINEER AS EQUIVALENT TO THE ITEM OR MANUFACTURER SPECIFIED". THE TERM "APPROVED" SHALL MEAN LABELED, LISTED, OR BOTH, BY AN NRTL, AND ACCEPTABLE TO THE AHJ OVER THIS PROJECT.

COORDINATION

COORDINATE WORK WITH THAT OF OTHER TRADES SO THAT THE VARIOUS COMPONENTS OF THE SYSTEMS WILL BE INSTALLED AT THE PROPER TIME, WILL FIT THE AVAILABLE SPACE, AND WILL ALLOW PROPER SERVICE ACCESS TO THOSE ITEMS REQUIRING MAINTENANCE. COMPONENTS WHICH ARE INSTALLED WITHOUT REGARD TO THE ABOVE SHALL BE RELOCATED AT NO ADDITIONAL COST TO THE OWNER.

UNLESS NOTED ELSEWHERE, GENERAL CONTRACTOR WILL PROVIDE CHASES AND OPENINGS IN BUILDING CONSTRUCTION REQUIRED FOR INSTALLATION OF THE SYSTEMS SPECIFIED HEREIN. CONTRACTOR SHALL FURNISH THE GENERAL CONTRACTOR WITH INFORMATION REGARDING CHASES AND OPENINGS WHEN REQUIRED. CONTRACTOR SHALL KEEP INFORMED AS TO THE WORK OF OTHER TRADES ENGAGED IN THE CONSTRUCTION OF THE PROJECT AND SHALL EXECUTE HIS WORK IN SUCH A MANNER AS NOT TO INTERFERE WITH OR DELAY THE WORK OF OTHER TRADES.

FIGURED DIMENSIONS SHALL BE TAKEN IN PREFERENCE TO SCALED DIMENSIONS. CONTRACTOR SHALL TAKE HIS OWN MEASUREMENTS AT THE BUILDING, AS VARIATIONS MAY OCCUR. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ERRORS WHICH COULD HAVE BEEN AVOIDED BY PROPER CHECKING AND VERIFICATION.

PROVIDE MATERIALS WITH TRIM THAT WILL PROPERLY FIT THE TYPES OF CEILING, WALL, OR FLOOR FINISHES ACTUALLY INSTALLED. MODEL NUMBERS LISTED IN THE SPECIFICATIONS OR SHOWN ON THE DRAWINGS ARE NOT INTENDED TO DESIGNATE THE REQUIRED TRIM.

GUARANTEE

THE WORK TO BE PERFORMED UNDER THIS CONTRACT SHALL INCLUDE THE FURNISHING, INSTALLATION, AND CONNECTION OF PLUMBING SYSTEMS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS. BY SIGNING THE CONTRACT, THE CONTRACTOR ACKNOWLEDGES THAT HE HAS ACQUAINTED HIMSELF WITH THE SITE AND THE EXISTING CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED, AND THE DRAWINGS AND SPECIFICATIONS PERTAINING THERETO, AND HE INDICATES THAT HE WILL COMPLY WITH THE REQUIREMENTS AND INTENT OF PERTINENT DOCUMENTS IN THE PERFORMANCE OF THE WORK.

GUARANTEE THAT THE PLUMBING INSTALLED UNDER THIS CONTRACT IS FREE OF DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF JOB ACCEPTANCE BY THE OWNER. THIS SHALL INCLUDE A GUARANTEE OF FREE CIRCULATION OF LIQUIDS THROUGHOUT THE SYSTEM AS INTENDED WITHOUT LEAKS, EXCESSIVE NOISE, OR WATER HAMMER.

IF DEFECTS OCCUR DURING THE ONE YEAR GUARANTEE PERIOD, REPAIR OR REPLACE SUCH DEFECTS AT NO EXPENSE TO THE OWNER, AND TO THE SATISFACTION OF THE OWNER, ARCHITECT AND ENGINEER.

WARRANTIES

WARRANT EACH SYSTEM AND EACH ELEMENT THEREOF AGAINST ALL DEFECTS DUE TO FAULTY WORKMANSHIP, DESIGN OR MATERIAL FOR A PERIOD OF 12 MONTHS FROM DATE OF SUBSTANTIAL COMPLETION, UNLESS SPECIFIC ITEMS ARE NOTED TO CARRY A LONGER WARRANTY IN THE CONSTRUCTION DOCUMENTS OR MANUFACTURER'S STANDARD WARRANTY EXCEEDS 12 MONTHS. REMEDY ALL DEFECTS, OCCURRING WITHIN THE WARRANTY PERIOD(S). WARRANTIES SHALL INCLUDE LABOR AND MATERIAL. MAKE REPAIRS OR REPLACEMENTS WITHOUT ANY ADDITIONAL COSTS TO THE OWNER. PERFORM THE REMEDIAL WORK PROMPTLY, UPON WRITTEN NOTICE FROM THE ENGINEER OR OWNER.

AT THE TIME OF SUBSTANTIAL COMPLETION, DELIVER TO THE OWNER ALL WARRANTIES, IN WRITING AND PROPERLY EXECUTED, INCLUDING TERM LIMITS FOR WARRANTIES EXTENDING BEYOND THE ONE YEAR PERIOD, EACH WARRANTY INSTRUMENT BEING ADDRESSED TO THE OWNER AND STATING THE COMMENCEMENT DATE AND TERM.

EXCAVATION AND BACKFILLING

PERFORM EXCAVATION AND BACKFILL REQUIRED FOR INSTALLATION OF UNDERGROUND WORK UNDER THIS CONTRACT. TRENCHES SHALL BE OF SUFFICIENT WIDTH. CRIB OR BRACE TRENCHES TO PREVENT CAVE-IN OR SETTLEMENT. DO NOT EXCAVATE TRENCHES CLOSE TO COLUMNS AND WALLS OF NEW BUILDING WITHOUT PRIOR CONSULTATION WITH THE ARCHITECT. USE PUMPING EQUIPMENT IF REQUIRED TO KEEP TRENCHES FREE OF WATER. BACKFILL TRENCHES IN MAXIMUM 6" LAYERS OF WELL-TAMPED DRY EARTH IN A MANNER TO PREVENT FUTURE SETTLEMENT.

COMMON EXCAVATION SHALL COMPRISE THE SATISFACTORY REMOVAL AND DISPOSITION OF MATERIAL OF WHATEVER SUBSTANCES AND OF EVERY DESCRIPTION ENCOUNTERED, INCLUDING ROCK, IF ANY, WITHIN THE LIMITS OF THE WORK AS SPECIFIED AND SHOWN ON THE DRAWINGS. EXCAVATION SHALL BE PERFORMED TO THE LINES AND GRADES INDICATED ON THE DRAWINGS. EXCAVATED MATERIALS WHICH ARE CONSIDERED UNSUITABLE FOR BACKFILL, AND SURPLUS OF EXCAVATED MATERIAL, WHICH IS NOT REQUIRED FOR BACKFILL, SHALL BE DISPOSED OF BY THE CONTRACTOR AT HIS OWN EXPENSE AND RESPONSIBILITY, AND TO THE SATISFACTION OF THE ARCHITECT.

CUTTING AND PATCHING

OBTAIN PERMISSION FROM THE ARCHITECT BEFORE CUTTING WALLS, FLOORS, CEILINGS, ETC. AS REQUIRED BY THE PROJECT. DO NOT DISTURB STRUCTURAL MEMBERS WITHOUT PRIOR APPROVAL FROM THE ARCHITECT. CUT HOLES AS SMALL AS POSSIBLE. GENERAL CONTRACTOR SHALL PATCH WALLS, FLOORS, ETC. AS REQUIRED BY WORK UNDER THIS SECTION. PATCHING SHALL MATCH ORIGINAL MATERIAL AND CONSTRUCTION. REPAIR AND REFINISH AREAS DISTURBED BY WORK TO THE CONDITION OF ADJOINING SURFACES IN A MANNER SATISFACTORY TO THE ARCHITECT.

CONCRETE BASES

PROVIDE CONCRETE BASES FOR HIS EQUIPMENT WHERE INDICATED ON THE DRAWINGS. CONCRETE BASES SHALL HAVE CHAMFERED EDGES. SIZE OF PAD SHALL BE A MINIMUM OF 4" GREATER THAN THE FOOTPRINT OF THE EQUIPMENT THAT IT IS SUPPORTING.

CONSTRUCT EQUIPMENT BASES AND HOUSEKEEPING PADS OF A MINIMUM 28 DAY, 4000 PSI CONCRETE CONFORMING TO AMERICAN CONCRETE INSTITUTE STANDARD BUILDING CODE FOR REINFORCED CONCRETE (ACI 318-19) AND THE LATEST APPLICABLE RECOMMENDATIONS OF THE ACI STANDARD PRACTICE MANUAL. CONCRETE SHALL BE COMPOSED OF CEMENT CONFORMING TO ASTM C 150 TYPE I, AGGREGATE CONFORMING TO ASTM C33, AND POTABLE WATER. EXPOSED EXTERIOR CONCRETE SHALL CONTAIN 5 TO 7 PERCENT AIR ENTRAINMENT.

PROVIDE GALVANIZED ANCHOR BOLTS FOR EQUIPMENT PLACED ON CONCRETE EQUIPMENT BASES AND HOUSEKEEPING PADS OR ON CONCRETE SLABS. ANCHOR BOLTS SIZE, NUMBER AND PLACEMENT SHALL BE AS RECOMMENDED BY THE MANUFACTURER OF THE EQUIPMENT.

ACCESS DOORS

PROVIDE ACCESS DOORS IN CEILINGS AND WALLS WHERE INDICATED OR REQUIRED FOR ACCESS TO CONCEALED VALVES AND EQUIPMENT INSTALLED UNDER THIS SECTION. PROVIDE CONCEALED HINGES, SCREWDRIVER-TYPE LOCK, ANCHOR STRAPS; MANUFACTURED BY MILCOR, ZURN, TITUS, OR EQUAL. OBTAIN ARCHITECT'S APPROVAL OF TYPE, SIZE, LOCATION, AND COLOR BEFORE ORDERING.

PENETRATIONS

PROVIDE SLEEVES FOR PIPES PASSING THROUGH ABOVE GRADE CONCRETE OR MASONRY WALLS, CONCRETE FLOOR OR ROOF SLABS. SLEEVES ARE NOT REQUIRED FOR CORE DRILLED HOLES IN EXISTING MASONRY WALLS, CONCRETE FLOORS OR ROOFS. PROVIDE 10 GAUGE GALVANIZED STEEL SLEEVES FOR SLEEVES 6" AND SMALLER. PROVIDE GALVANIZED SHEET METAL SLEEVES FOR LARGER THAN 6". SCHEDULE 40 PVC SLEEVES ARE ACCEPTABLE FOR INSTALLATION IN AREAS WITHOUT RETURN AIR PLENUMS.

SEAL ELEVATED FLOOR, EXTERIOR WALL AND ROOF PENETRATIONS WATERTIGHT AND WEATHERTIGHT WITH NON-SHRINK, NON-HARDENING COMMERCIAL SEALANT. PACK WITH MINERAL WOOL AND SEAL BOTH ENDS WITH MINIMUM OF 1/2" OF SEALANT.

SEAL AROUND PENETRATIONS OF FIRE RATED ASSEMBLIES. COORDINATE FIRE RATINGS AND LOCATIONS WITH THE ARCHITECTURAL DRAWINGS. REFER TO ARCHITECTURAL SPECIFICATIONS FOR FIRE STOPPINGS. PROVIDE A PRODUCT SCHEDULE FOR UL LISTING, LOCATION, WALL OR FLOOR RATING AND INSTALLATION DRAWING FOR EACH PENETRATION FIRE STOP SYSTEM.

EXTEND PIPE INSULATION FOR INSULATED PIPE THROUGH FLOOR, WALL AND ROOF PENETRATIONS, INCLUDING FIRE RATED WALLS AND FLOORS. THE VAPOR BARRIER SHALL BE MAINTAINED. SIZE SLEEVE FOR A MINIMUM OF 1" ANNULAR CLEAR SPACE BETWEEN INSIDE OF SLEEVE AND OUTSIDE OF INSULATION.

SEAL CONCRETE OR MASONRY EXTERIOR WALL PENETRATIONS BELOW GRADE WITH "WALL PIPES" AND MECHANICAL SLEEVE SEALS. PROVIDE CAST IRON "WALL PIPES" WITH INTEGRAL WATERSTOP RING MANUFACTURED BY JOSAM, JAY R. SMITH, WADE, WATTS OR ZURN. PROVIDE MODULAR MECHANICAL SLEEVE SEALS, MANUFACTURED BY THUNDERLINE / LINK SEAL, CALPICO, INC. AND METRAFLEX.

SEAL ELEVATED CONCRETE SLAB WITH WATERPROOF MEMBRANE PENETRATIONS WITH "WALL PIPES" AND WATER PROOF SEALANT. SECURE WATERPROOF MEMBRANE FLASHING BETWEEN "WALL PIPE" CLAMPING FLANGE AND CLAMPING RING. PROVIDE CAST IRON "WALL PIPES" WITH INTEGRAL WATERSTOP RING MANUFACTURED BY JOSAM, JAY R. SMITH, WADE, WATTS OR ZURN.

PROVIDE SLEEVES FOR HORIZONTAL PIPE PASSING THROUGH OR UNDER FOUNDATION. SLEEVES SHALL BE CAST IRON SOIL PIPE TWO NOMINAL PIPE SIZES LARGER THAN THE PIPE SERVED.

PROVIDE SCHEDULE 40 PVC PIPE SLEEVES FOR VERTICAL PRESSURE PIPE PASSING THROUGH CONCRETE SLAB ON GRADE. SLEEVES SHALL BE ONE NOMINAL PIPE SIZE LARGER THAN THE PIPE SERVED AND TWO PIPE SIZES LARGER THAN PIPE SERVED FOR DUCTILE IRON PIPES WITH RESTRAINING RODS. SEAL WATER-TIGHT WITH SILICONE CAULK.

PROVIDE 1/2" THICK CELLULAR FOAM INSULATION AROUND PERIMETER OF NON-PRESSURE PIPE PASSING THRU CONCRETE SLAB ON GRADE. INSULATION SHALL EXTEND TO 2" ABOVE AND BELOW THE CONCRETE SLAB.

ELECTRICAL WIRING

LINE VOLTAGE WIRING SHALL BE PROVIDED BY ELECTRICAL. LINE VOLTAGE CONTROL AND INTERLOCK WIRING FOR PLUMBING SYSTEMS SHALL ALSO BE PROVIDED BY ELECTRICAL CONTRACTOR. LOW VOLTAGE CONTROL WIRING SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR. FURNISH WIRING DIAGRAMS TO THE ELECTRICAL CONTRACTOR AS REQUIRED FOR PROPER EQUIPMENT HOOKUP. COORDINATE WITH THE ELECTRICAL CONTRACTOR THE ACTUAL WIRE SIZING AMPS FOR PLUMBING EQUIPMENT (FROM THE EQUIPMENT NAMEPLATE) TO ENSURE PROPER INSTALLATION.

SYSTEM TESTING AND ADJUSTING

UPON COMPLETION OF EACH PHASE OF THE INSTALLATION, TEST EACH SYSTEM IN CONFORMANCE WITH LOCAL CODE REQUIREMENTS AND AS NOTED BELOW. FURNISH LABOR AND EQUIPMENT REQUIRED TO TEST PLUMBING WORK INSTALLED UNDER THIS CONTRACT, AND ASSUME COSTS INVOLVED IN MAKING THE TESTS, AND REPAIRING AND/OR REPLACING DAMAGE RESULTING THEREFROM.

NOTIFY THE ARCHITECT AND THE AUTHORITY HAVING JURISDICTION, THREE (3) WORKING DAYS PRIOR TO MAKING PLUMBING SYSTEM TESTS. LEAVE CONCEALED WORK UNCOVERED UNTIL THE REQUIRED TESTS HAVE BEEN COMPLETED, BUT IF NECESSARY DUE TO CONSTRUCTION PROCEDURE, TESTS ON PORTIONS OF THE WORK MAY BE MADE, AND WHEN SATISFACTORY, THE WORK MAY BE CONCEALED. TEST PIPING BEFORE INSULATION IS INSTALLED, AND BEFORE BACKFILL. PIPES, JOINTS, FLANGES, VALVE STEMS, ETC., SHALL BE LEAK TIGHT. REPAIR OR REPLACE SYSTEM DEFECTS WITH NEW MATERIALS. CAULKING OF DEFECTIVE JOINTS, CRACKS OR HOLES WILL NOT BE PERMITTED. REPEAT TESTS AFTER DEFECTS HAVE BEEN ELIMINATED. MAKE TESTS IN THE PRESENCE OF THE ADMINISTRATIVE AUTHORITY AND/OR THE OWNER'S AUTHORIZED REPRESENTATIVE.

UPON COMPLETION OF THE SYSTEMS INSTALLATION, AND PRIOR TO ACCEPTANCE BY THE ARCHITECT AND ENGINEER, MAKE GENERAL OPERATING TESTS TO DEMONSTRATE THAT EQUIPMENT AND SYSTEMS ARE IN PROPER WORKING ORDER, AND ARE FUNCTIONING IN CONFORMANCE WITH THE INTENT OF THE DRAWINGS AND SPECIFICATIONS. AS A PART OF THESE TESTS, OPEN EVERY WATER OUTLET TO ENSURE COMPLETE SYSTEM FLUSHING, REMOVE AND CLEAN FAUCET AERATORS, CLEAN STRAINERS, LIGHT PILOT LIGHTS, AND OPERATE EVERY PIECE OF EQUIPMENT FURNISHED UNDER THIS CONTRACT TO DEMONSTRATE PROPER FUNCTIONING.

TEST THE DRAINAGE AND VENT SYSTEM BY PLUGGING OPENINGS WITH TEST PLUGS, EXCEPT THOSE AT THE TOP OF THE STACKS. FILL THE SYSTEM WITH WATER; TEST RESULTS WILL BE SATISFACTORY IF THE WATER LEVEL REMAINS STATIONARY FOR NOT LESS THAN ONE (1) HOUR. SUBJECT THE DRAINAGE AND VENT SYSTEM TO A PRESSURE OF AT LEAST TEN (10) FEET OF WATER. IF LEAKS DEVELOP, REPAIR THEM AND REPEAT THE TEST.

TEST THE DOMESTIC WATER SYSTEM BY FILLING IT WITH WATER AND THEN ISOLATING THE SYSTEM FROM ITS SOURCE. KEEP THE SYSTEM CLOSED FOR A PERIOD OF TWENTY-FOUR HOURS, WITH NO FIXTURE BEING USED. THE PRESSURE DIFFERENTIAL FOR THIS TEST PERIOD SHALL NOT EXCEED 10 PSIG. TEST WATER PIPING TO A 125 PSI HYDROSTATIC PRESSURE.

FOR LOW PRESSURE NATURAL GAS SYSTEMS, SUBJECT THE PIPE TO 10 PSIG AIR PRESSURE FOR A PERIOD OF ONE HOUR. THE RESULTANT PRESSURE DIFFERENTIAL FOR THIS PERIOD SHALL BE 0 PSIG. TEST PER GAS COMPANY REQUIREMENTS WHERE REQUIRED. FOR WELDED NATURAL GAS SYSTEMS AND SYSTEMS WITH AN OPERATING PRESSURE IN EXCESS OF 14" WATER COLUMN, SUBJECT THE PIPE TO 60 PSIG AIR PRESSURE FOR A PERIOD OF ONE HOUR. THE RESULTANT PRESSURE DIFFERENTIAL FOR THIS PERIOD SHALL BE 0 PSIG. TEST PER GAS COMPANY REQUIREMENTS WHERE REQUIRED.

PLUMBING PIPING MATERIALS

MATERIALS SPECIFIED OR NOTED ON THE DRAWINGS ARE SUBJECT TO THE APPROVAL OF LOCAL CODE AUTHORITIES. VERIFY APPROVAL BEFORE INSTALLING ANY MATERIAL OR JOINING METHOD.

DOMESTIC WATER (COLD, HOT AND HOT WATER RECIRCULATION): DOMESTIC WATER PIPING INSTALLED ABOVE THE FLOOR SLAB INSIDE THE BUILDING SHALL BE TYPE "L" HARD TEMPER COPPER TUBE WITH WROUGHT COPPER FITTINGS AND SOLDERED CONNECTIONS MADE UP WITH 95/5 SOLDER. BRAZED MECHANICALLY FORMED TEE CONNECTIONS (T-DRILL) MAY BE USED IN COPPER LINES WHERE APPROVED BY CODE; CONNECTION SHALL BE MADE WITH BRAZED SILVER SOLDER (SILFOS) JOINTS IN CONFORMANCE WITH MANUFACTURER'S INSTRUCTIONS.
FOR 2" AND SMALLER APPROVED LINKED POLYETHYLENE (PEX) TUBING MEETING ASTM F876, ASTM F877, NSF 14, AND NSF 61, WITH A PRESSURE RATING OF 160PSI AT 73°F AND BLUE OR RED COLOR CODED. DO NOT INSTALL PEX TUBING IN THE RETURN AIR PLENUM CEILING. PEX TUBING MAY BE INSTALLED IN THE RETURN AIR PLENUM CEILING IF INSULATED WITH PLENUM WRAP WHERE APPROVED BY THE AUTHORITY HAVING JURISDICTION.

UNDERGROUND DOMESTIC WATER PIPING 2" AND SMALLER SHALL BE TYPE "K" SOFT TEMPER COPPER TUBING WITH FLARED COPPER ALLOY FITTINGS AND CONNECTIONS, OR TYPE "K" HARD TEMPER COPPER TUBING WITH CONVENTIONAL WROUGHT COPPER FITTINGS AND SILVER SOLDER (SILFOS) JOINTS. INSTALL AS FEW UNDERGROUND COPPER PIPING JOINTS AS POSSIBLE. AT BUILDING SERVICE ENTRANCE, NO JOINTS SHALL BE INSTALLED UNDER OR WITHIN 5 FEET OF THE BUILDING. INSTALL DOMESTIC WATER PIPING BELOW GRADE OUTSIDE BUILDING AT ADEQUATE DEPTH TO PREVENT FREEZING.

INTERIOR WASTE AND VENT BELOW SLAB: WASTE AND VENT PIPE BELOW SLAB INSIDE BUILDING SHALL BE SERVICE WEIGHT CAST IRON SOIL PIPE WITH HUB AND SPIGOT FITTINGS WITH NEOPRENE GASKET JOINTS, MEETING ASTM A74, MANUFACTURED BY AB & I FOUNDRY, CHARLOTTE OR TYLER PIPE AND BEARING THE TRADEMARK OF THE CISPI AND NSF. HUBLESS WASTE AND VENT PIPE IS NOT PERMITTED BELOW BASE SLAB. PVC SCHEDULE 40 DWV ASTM D2665 PIPE WITH PVC MEETING ASTM B1784, "SOLID WALL" CELL CLASS 12454-B WITH ASTM 2665 SOCKET FITTINGS WITH SOLVENT WELD JOINTS IS ALSO PERMITTED WHERE APPROVED BY CODE.

INTERIOR WASTE AND VENT ABOVE SLAB: WASTE AND VENT PIPE ABOVE SLAB INSIDE BUILDING SHALL BE HUBLESS CAST IRON SOIL PIPE AND FITTINGS, MEETING ASTM A888 AND CISPI 301, MANUFACTURED BY AB & I FOUNDRY, CHARLOTTE OR TYLER PIPE AND BEARING THE TRADEMARK OF THE CISPI AND NSF. PVC SCHEDULE 40 DWV ASTM D2665 PIPE WITH PVC MEETING ASTM B1784, "SOLID WALL" CELL CLASS 12454-B WITH ASTM 2665 SOCKET FITTINGS WITH SOLVENT WELD JOINTS IS ALSO PERMITTED WHERE APPROVED BY CODE. (NOTE: PVC PIPING IS NOT ALLOWED IN CEILING RETURN AIR PLENUMS)

INTERIOR STORM: INSIDE BUILDING SHALL BE SAME AS SPECIFIED FOR INTERIOR WASTE AND VENT PIPE.

NATURAL GAS: GAS PIPING ABOVE GROUND SHALL BE SCHEDULE 40 BLACK STEEL WITH MALLEABLE IRON SCREWED FITTINGS, OR STANDARD WELDED FITTINGS. UNDERGROUND GAS PIPING SHALL BE HIGH DENSITY OR ULTRAHIGH DENSITY POLYETHYLENE PIPE AS REQUIRED BY THE GAS UTILITY COMPANY. POLYETHYLENE PIPE SHALL CONFORM TO ASTM D1248, D3350 AND D2513, AS APPROPRIATE. POLYETHYLENE PIPE SHALL BE PHILLIPS DRISCOPIPE SERIES 6500, OMEGA ENGINEERING, PEPCO, OR APPROVED EQUAL. INSTALLATION SHALL BE IN CONFORMANCE WITH UTILITY COMPANY RULES. PROVIDE POLYETHYLENE TO STEEL PIPE TRANSITION FITTINGS BY PERFECTION CORPORATION, R W LYALL OR CENTRAL PLASTICS AT TRANSITIONS FROM BELOW GRADE TO ABOVE GRADE. FACTORY ASSEMBLED AND PRESSURE TESTED ONE PIECE DESIGN, WITH STEEL HALF OF SCHEDULE 40 STEEL PIPE WITH BEVELED EDGE FOR WELDING AND POLYETHYLENE HALF SHALL BE OF AMPLE LENGTH FOR MAKING WELDS. STEEL PIPE SHALL HAVE EPOXY PROTECTIVE COATING.

CONNECTIONS TO PLUMBING FIXTURES AND EQUIPMENT: 1-1/4" AND LARGER WASTE CONNECTIONS FROM FIXTURE TRAPS TO CAST IRON PIPE SHALL BE "DWV" COPPER WITH WROUGHT COPPER DRAINAGE PATTERN FITTINGS WITH COPPER SWEAT OR COMPRESSION JOINTS AT FIXTURE TRAP CONNECTIONS AND THREADED JOINTS AT CONNECTIONS TO CAST IRON PIPE.

INDIRECT AND CONDENSATE DRAIN INSIDE BUILDING: INDIRECT AND CONDENSATE DRAIN PIPE INSTALLED INSIDE THE BUILDING SHALL BE TYPE "M" HARD COPPER WITH WROUGHT COPPER FITTINGS FOR 1" AND SMALLER AND "DWV" COPPER WITH WROUGHT COPPER DRAINAGE PATTERN FITTINGS FOR 1-1/4" AND LARGER HARD TEMPER COPPER TUBE AND SOLDERED CONNECTIONS MADE WITH 95/5 SOLDER OR SCHEDULE 40 PVC PIPE AND FITTINGS WITH SOLVENT WELD JOINTS WHERE ALLOWED BY CODE. (NOTE: PVC PIPING IS NOT ALLOWED IN CEILING RETURN AIR PLENUMS). INSTALL CLEANOUTS AT ELBOWS GREATER THAN 45 DEGREES.

INDIRECT AND CONDENSATE DRAIN OUTSIDE BUILDING: INDIRECT AND CONDENSATE DRAIN PIPE INSTALLED OUTSIDE THE BUILDING ABOVE GROUND SHALL BE TYPE "M" FOR 1" AND SMALLER AND "DWV" FOR 1-1/4" AND LARGER HARD TEMPER COPPER TUBE WITH WROUGHT COPPER DRAINAGE PATTERN FITTINGS AND SOLDERED CONNECTIONS MADE WITH 95/5 SOLDER. TERMINATE AT NEAREST ROOF DRAIN, GUTTER OR OTHER LOCATION AS SHOWN DRAWINGS. INSTALL CLEANOUTS AT ELBOWS GREATER THAN 45 DEGREES.

SUMP PUMP DISCHARGE: SUMP PUMP DISCHARGE PIPING ABOVE GRADE SHALL BE ASTM A53 SCHEDULE 40 GALVANIZED STEEL PIPE WITH GALVANIZED MALLEABLE IRON FITTINGS. SUMP PUMP DISCHARGE PIPING BELOW GRADE SHALL BE ASTM D-1785 SCHEDULE 40 PVC PIPE WITH SOCKET WELD PRESSURE FITTINGS.

PIPING AND EQUIPMENT INSULATION

INSULATE DOMESTIC COLD WATER, HOT WATER, HOT WATER RECIRCULATION, WITH ONE-PIECE FIBERGLASS COVERING FOR WITH FIRE-RESISTANT JACKET WITH SELF-SEALING LAP TO PROVIDE A CONTINUOUS VAPOR BARRIER BY CERTAINTEED, OWENS-CORNING OR ARMSTRONG. INSULATE INTERIOR CONDENSATE DRAINPIPE (WITHIN BUILDING) AND INTERIOR HORIZONTAL STORM DRAIN PIPING, THAT IS CONCEALED ABOVE THE CEILING WITH, 1" THICK ONE-PIECE FIBERGLASS COVERING. FOR HOT PIPING, PROVIDE PIPE HANGERS AND RISER CLAMPS SIZED FOR THE OUTSIDE DIAMETER OF PIPING. BUTT INSULATION TO HANGER OR RISER CLAMP FOR VERTICAL PIPE. SEAL EXPOSED INSULATION WITH INSULATION SEALER. EXCEPTION FOR VERTICAL PIPING: PROVIDE CLAMPS SIZED FOR THE OUTSIDE DIAMETER OF THE VERTICAL PIPE AND EXTEND CLAMP THROUGH INSULATION. SEAL PENETRATIONS OF INSULATION AND VAPOR BARRIER WITH WET COAT OF VAPOR BARRIER LAP CEMENT. FOR COLD PIPING AT HANGERS PROVIDE 8" LONG SECTIONS OF HIGH DENSITY, HIGH TEMPERATURE CALCIUM SILICATE BY JOHNS-MANVILLE, FIBERGLASS BY KNAUF, OR 8" LONG STYROFOAM BILLETS BY DOW OR FLEXIBLE UNICELLULAR PIPING INSULATION MEETING ASTM C 534-01A, TYPE I WITH INTEGRAL HIGH DENSITY PIPE SUPPORTS AND ENCASED IN STEEL INSULATION SHIELD BY COOPER B-LINE / ARMACELL OR APPROVED EQUAL. INSULATION SHALL BE CONTINUOUS ALONG THE PIPE SURFACE, EXCEPT AT VALVES, UNIONS, AND WHERE PIPING IS EXPOSED AT FIXTURES. PROVIDE INSULATION PROTECTION SHIELD AT EACH HANGER FOR INSULATED PIPING.

FOR HOT AND COLD WATER PIPING INSTALLED INSIDE MASONRY UNITS OF WALLS, PROVIDE FLEXIBLE UNICELLULAR INSULATION BY ARMACELL.

COVER FITTINGS WITH ZESTON, KNAUF, OR EQUAL ONE-PIECE PVC PREMOLDED INSULATING COVERS. FITTING COVERS, JACKETS AND ADHESIVES SHALL NOT EXCEED FLAME SPREAD RATING OF 25 AND SMOKE DEVELOPMENT RATING OF 50 PER ASTM E84. AT ALL ELBOWS AND TEES, FILL VOIDS BETWEEN COVERS AND PIPING WITH FIBERGLASS INSULATION AND TAPE JOINTS. INSTALL PIPE INSULATION IN COMPLIANCE WITH MANUFACTURER'S RECOMMENDATIONS. WHERE PREMOLDED INSULATING FITTINGS ARE NOT APPROVED BY LOCAL AUTHORITIES, MITER INSULATION AT FITTINGS.

PROVIDE 1" THICK FIBERGLASS INSULATION ON VENT PIPING WITHIN SIX FEET OF VENT THROUGH THE OF ROOF.

PIPING JOINTS

COPPER TUBING: JOINTS IN HARD TEMPER TUBING SHALL BE SOLDERED JOINTS USING LEAD-FREE 95/5 SOLDER EXCEPT WHERE TUBING IS INSTALLED BELOW GRADE OR BELOW THE BASE SLAB, IN WHICH CASE JOINTS SHALL BE SOLDERED WITH SILVER SOLDER (SILFOS). JOINTS IN SOFT TEMPER COPPER TUBING SHALL BE OF THE FLARED TYPE INSTALLED IN COMPLIANCE WITH THE FITTING MANUFACTURER'S RECOMMENDATIONS.

THREADED STEEL PIPE: THREADED JOINTS SHALL BE FULL AND CLEAN, CUT WITH NOT MORE THAN THREE (3) THREADS EXPOSED BEYOND THE FITTINGS. MAKE JOINTS TIGHT WITH GRAPHITE BASE PIPE JOINT COMPOUND AND PAINT EXPOSED THREADS OF FERROUS PIPE WITH ACID-RESISTING PAINT AFTER PIPING HAS BEEN TESTED AND PROVEN TIGHT. NO CAULKING, LAMP-WICK OR OTHER MATERIAL WILL BE PERMITTED FOR CORRECTION OF DEFECTIVE JOINTS.

WELDED STEEL PIPE: WELDED JOINTS SHALL BE OF THE BUTT WELDED SINGLE "VEE" TYPE. BEVEL PIPE AT A 45 DEGREE ANGLE TO WITHIN 1/16" OF THE INSIDE WALL AND BUILD UP THE WELD TO ONE FOURTH GREATER DEPTH THAN THE PIPE WALL THICKNESS. WELDING SHALL BE EITHER ELECTRIC OR OXY-ACETYLENE, PERFORMED IN CONFORMANCE WITH THE ASME CODE FOR PRESSURE PIPE WELDING, AND ONLY BY EXPERIENCED CERTIFIED WELDERS.

CAST IRON PIPE BELOW GRADE: JOINTS IN BELL AND SPIGOT CAST IRON WASTE AND VENT PIPE SHALL BE NEOPRENE COMPRESSION GASKETS, TYSEAL OR EQUAL.

CAST IRON PIPE ABOVE GRADE: JOINTS IN HUBLESS PIPE SHALL BE STANDARD CISPI 310 NSF CERTIFIED BY ANACO, IDEAL, MISSON OR TYLER. JOINTS IN STORM PIPING, INCLUDING CONNECTIONS TO ROOF DRAINS, SHALL BE HEAVY DUTY COUPLINGS MEETING ASTM C1540 AND FM 1680, ANACO HUSKY #SD-4000 OR CLAMP-ALL "HI TORQUE" 125-IN.LB.

PVC PIPE: CLEAN JOINTS FREE FROM DEBRIS AND MOISTURE. APPLY PVC PRIMER MEETING ASTM F656 TO EACH JOINT. APPLY SOLVENT CEMENT MEETING ASTM D2564 AND MAKE JOINT WHILE WET AND IN ACCORDANCE WITH ASTM D2855.

PEX TUBE: THE FITTINGS ARE ENGINEERED POLYMER AND LEAD-FREE BRASS COLD EXPANSION TYPE WITH PEX REINFORCING RINGS IN COMPLIANCE WITH ASTM F1960. PEX HOSE BARB FITTINGS MEETING ASTM 1807 OF BRASS FOR USE WITH PEX TUBING WITH COPPER CRIMP RING. CUT ENDS OF TUBING STRAIGHT AND TRUE. MANUFACTURED BY IPEX PLUMBETTER PEX TUBING, VIEGA, WIRSBO OR ZURN INDUSTRIES.

PIPE ADAPTERS: MAKE CONNECTION OF NEW WASTE PIPE TO NEW OR EXISTING DISSIMILAR WASTE PIPE USING ADAPTER COUPLINGS. PROVIDE FERNCO, PROFLEX 3000 SERIES OR MISSION FLEXSEAL MR56 SERIES WITH NEOPRENE ADAPTER GASKET WITH STAINLESS STEEL SHIELD AND HOSE CLAMPS FOR CONNECTING DISSIMILAR PIPES ABOVE GRADE. PROVIDE FERNCO, 1056 SERIES OR MISSION SEWER COUPLINGS WITH NEOPRENE ADAPTER GASKET AND HOSE CLAMPS FOR CONNECTING DISSIMILAR PIPES BELOW GRADE AND COAT STAINLESS STEEL BANDS WITH MASTIC.

CPVC PIPE: CLEAN JOINTS FREE FROM DEBRIS AND MOISTURE. APPLY CPVC PRIMER MEETING ASTM F656 TO EACH JOINT. APPLY SOLVENT CEMENT MEETING ASTM F493 AND MAKE JOINT WHILE WET AND IN ACCORDANCE WITH ASTM D2855.

PIPING INSTALLATION

GENERAL: CLEAN PIPE THOROUGHLY PRIOR TO INSTALLATION. REAM ENDS OF PIPE TO REMOVE BURRS. CUT PIPE ACCURATELY TO MEASUREMENTS TAKEN ON THE JOB. INSTALL WITH ADEQUATE CLEARANCE FOR INSTALLATION OF COVERINGS WHERE REQUIRED. PIPE SHALL NOT BE SPRUNG OR BENT. NEATLY ALIGN PIPE, CONNECT IT SECURELY, AND SUPPORT IT FROM THE BUILDING STRUCTURE WITH HANGERS AS SPECIFIED BELOW. PROVIDE CHROME-PLATED ESCUTCHEONS ON PIPES PASSING THROUGH CEILINGS, FLOORS OR WALLS OF FINISHED SPACES. RUN PIPES FREELY THROUGH FLOOR AND WALL PENETRATIONS USING PIPE SLEEVES. DO NOT GROUT IN PLACE UNLESS REQUIRED FOR STRUCTURAL FIRE INTEGRITY. INSTALL PIPE CONCEALED IN FINISHED SPACES WHEREVER POSSIBLE. USE A DIELECTRIC UNION WHERE FERROUS AND COPPER PIPE CONNECT. DIELECTRIC UNION SHALL HAVE A ZINC-PLATED STEEL BODY, A THREADED NYLON INSERT, AND INSULATING PRESSURE GASKET. NO FERROUS METAL-TO-COPPER CONNECTION MADE WITHOUT INSULATING UNIONS WILL BE ALLOWED.

HANGER & SUPPORTS: PIPE HANGERS SHALL BE AS DESCRIBED IN THE SPECIFICATIONS BY B-LINE OR EQUAL BY ANVIL, MICHIGAN, TRUSCON, OR UNISTRUT. CONNECT HANGERS TO THE STRUCTURE WITH SIDE BEAM CONNECTORS AND ALL THREAD HANGER RODS. PROVIDE ENGINEERED SUPPORT STRUTS BETWEEN JOISTS AND OTHER STRUCTURAL MEMBERS AS REQUIRED TO PROVIDE A RIGID HANGING INSTALLATION. DO NOT HANG PIPES FROM OTHER PIPES, CONDUIT OR DUCTWORK. PROVIDE HANGER RODS AND SPACE HANGERS AT INTERVALS AS SPECIFIED IN "HANGER SPACING". PROVIDE SUPPORT WITHIN 1' OF EACH ELBOW AND TEE. PROVIDE SUPPORTS WITHIN 1' OF EACH EQUIPMENT CONNECTION. PROVIDE TWO NUTS ON THREADED SUPPORTS TO SECURELY FASTEN THE SUPPORT. INSTALL HANGER TYPES OR SUPPORTS FOR VARIOUS PIPING AS FOLLOWS:

PEX TUBE: PEX TUBING SHALL NOT BE INSTALLED WITHIN THE FIRST 18 INCHES OF PIPING CONNECTED TO THE HOT WATER HEATER. PEX TUBING SHALL NOT BE INSTALLED WITHIN 6 INCHES HORIZONTALLY OR WITHIN 12 INCHES VERTICALLY FROM ANY SOURCE OF HEAT, SUCH AS GAS APPLIANCE VENTS, LIGHT FIXTURES, HEATING APPLIANCES, ETC. PEX TUBING SHALL NOT BE INSTALLED IN LOCATIONS WHERE EXPOSED TO DIRECT SUNLIGHT. THESE TUBES SHALL NOT BE DEFORMED OR KINKED. TUBING PASSING THROUGH DRILLED OR NOTCHED METAL STUDS OR JOIST OR HOLLOW SHELL MASONRY WALLS SHALL BE PROTECTED FROM ABRASION DUE TO THERMAL EXPANSION AND CONTRACTION BY ELASTOMERIC OR PLASTIC SLEEVES. TUBING PENETRATING FRAMING MEMBERS WITHIN ONE INCH OF THE EXPOSED FRAMING SHALL BE PROTECTED BY STEEL NAIL PLATES NOT LESS THAN 18 GAUGE IN THICKNESS. THE STEEL PLATE SHALL EXTEND ALONG THE FRAMING A MINIMUM OF 1-1/2 INCHES BEYOND THE OUTSIDE DIAMETER OF THE PIPE OR TUBING. PEX TUBING GREATER THAN 3/4 INCH INSTALLED WITHIN AIR PLENUM SHALL BE INSULATED WITH 1/2" INCH THICK MASON ALLEY-K, ARMAFLEX COMPOSITE, JOHNS MANVILLE MICRO-LOK, JOHN MANVILLE MICRO-LOK HP, OWENS COMING VAPOR WICK OR OWENS COMING FIBERGLASS INSULATION. TUBING WITH A MAXIMUM NOMINAL DIAMETER OF 3/4 INCH MAY BE INSTALLED WITHOUT INSULATION SO LONG AS A MINIMUM SPACING OF 18 INCHES IS KEPT BETWEEN ADJACENT RUNS OF TUBING.

COPPER TUBE: ADJUSTABLE BAND HANGERS FOR BARE COPPER TUBE 3" AND SMALLER SHALL BE B-LINE #B3170 CT COPPER PLATED ADJUSTABLE BAND SWIVEL RING TYPE. ADJUSTABLE BAND HANGERS FOR INSULATED COPPER TUBE AND 3" SMALLER SHALL BE B-LINE #B3170 NF ADJUSTABLE BAND SWIVEL RING TYPE. CLEVIS HANGERS FOR INSULATED COPPER TUBE 4" AND LARGER SHALL BE B-LINE #B3100 GALVANIZED STEEL CLEVIS TYPE. SUPPORT EXPOSED COPPER TUBE 2" AND SMALLER TO WALLS OR IN CHASES WITH B-LINE #B3198RCT COPPER COATED EXTENSION SPLIT RING PIPE CLAMPS, 3/8" THREADED ROD AND B-LINE #B3199CT CEILING FLANGES. SUPPORT COPPER TUBE IN CHASES AND WALLS AT PLUMBING FIXTURES WITH PLASTIC OR COPPER BRACKETS SECURED TO STRUCTURE AND U-BOLTS SIZED TO BARE ON THE PIPE. RISER CLAMPS TO SUPPORT VERTICAL COPPER TUBE SHALL BE B-LINE #B3373CT COPPER COATED STEEL, CUT INSULATION, SEAL VAPOR BARRIER, AND ATTACH TO BARE TUBE.

STEEL PIPE: ADJUSTABLE BAND HANGERS FOR 2" AND SMALLER SHALL BE B-LINE #B3170 NF ADJUSTABLE BAND SWIVEL RING TYPE. CLEVIS HANGERS FOR 2-1/2" AND LARGER SHALL BE B-LINE #B3100 GALVANIZED STEEL CLEVIS TYPE. RISER CLAMPS TO SUPPORT VERTICAL PIPE SHALL BE B-LINE #B3373 GALVANIZED STEEL.

CAST IRON PIPE: ADJUSTABLE BAND HANGERS FOR 2" AND SMALLER. CLEVIS HANGERS FOR 3" AND LARGER SHALL BE B-LINE #B3100 GALVANIZED STEEL CLEVIS TYPE. RISER CLAMPS TO SUPPORT VERTICAL PIPE SHALL BE B-LINE #B3373 GALVANIZED STEEL.

PVC PIPE: ADJUSTABLE BAND HANGERS FOR 3" AND SMALLER. CLEVIS HANGERS FOR 4" AND LARGER SHALL BE B-LINE #B3100 GALVANIZED STEEL CLEVIS TYPE. RISER CLAMPS TO SUPPORT VERTICAL PIPE SHALL BE B-LINE #B3373 GALVANIZED STEEL.

INSULATION PROTECTION SHIELDS: B-LINE #B3151 OF 18 GAUGE GALVANIZED SHEET METAL. SHIELD SHALL COVER HALF OF THE CIRCUMFERENCE OF THE PIPE AND SHALL BE OF LENGTH INDICATED BY MANUFACTURER FOR PIPE SIZE AND THICKNESS OF INSULATION.

HANGER SPACING, ROD SIZES & CONNECTORS: CONNECT RODS TO STEEL BEAMS OR JOISTS WITH B-LINE #B3031 OR #B3033BEAM CLAMPS AS REQUIRED. CONNECT RODS TO CONCRETE WITH B-LINE #3014 MALLEABLE IRON SINGLE TYPE INSERTS WITH MALLEABLE IRON NUT. CONNECT RODS IN WOOD CONSTRUCTION WITH B-LINE #B3058 SIDE BEAM CONNECTORS. HANG AND SUPPORT PIPING WITH SPACING AND ROD SIZES AS FOLLOWS:

PEX TUBE: PEX TUBING 1" AND SMALLER SHALL BE SUPPORTED AT 32" INTERVALS FOR HORIZONTAL RUNS. PEX TUBING 1-1/4" AND LARGER SHALL BE SUPPORTED AT 4 FEET INTERVALS FOR HORIZONTAL RUNS. ALL SIZE TUBING SHALL BE SUPPORTED AT THE BASE AND AT EACH FLOOR FOR VERTICAL RUNS. FURTHERMORE, VERTICAL RUNS SHALL BE PROVIDED WITH MID-STORY GUIDES.

COPPER TUBE: 1-1/2" AND SMALLER - EVERY 6' WITH 3/8" HANGER RODS; 2" EVERY 10' WITH 3/8" HANGER RODS; 2-1/2" EVERY 10' WITH 3/8" HANGER RODS; 3" EVERY 10' WITH 1/2" RODS, 4" EVERY 10' WITH 5/8" HANGER RODS. SUPPORT VERTICAL COPPER TUBE EVERY 10'.

STEEL PIPE: 1" AND SMALLER - EVERY 8' WITH 3/8" HANGER RODS; 1-1/4" TO 2" EVERY 10' WITH 3/8" HANGER RODS; 2-1/2" AND 3" EVERY 10' WITH 1/2" HANGER RODS, 4" EVERY 10' WITH 5/8" HANGER RODS. SUPPORT VERTICAL STEEL PIPE EVERY 10'.

CAST IRON PIPE: EVERY 10' AND WITHIN 1' OF EACH JOINT. 2" AND SMALLER WITH 3/8" HANGER RODS; 3" WITH 1/2" HANGER RODS; 4" WITH 5/8" HANGER RODS; 6" WITH 3/4" HANGER RODS; 8" AND LARGER WITH 7/8" HANGER RODS. SUPPORT VERTICAL CAST IRON PIPE EVERY 15'.

PVC PIPE: SUPPORT ALL PIPES SIZES EVERY 4'. 1-1/2" AND SMALLER WITH 3/8" HANGER RODS; 2" WITH 1/2" HANGER RODS; 2-1/2" AND 3" WITH 1/2" HANGER RODS, 4" AND LARGER WITH 5/8" HANGER RODS. SUPPORT VERTICAL PVC PIPE EVERY 4'.

SUPPORTS ON ROOF: SUPPORT PIPING ON ROOF WITH PRE-ENGINEERED ROOF PIPE SUPPORTS MANUFACTURED BY B-LINE, ERICO, MIRO OR PORTABLE PIPE HANGERS: 4" X 4" X 12" LONG CLOSED CELL POLYETHYLENE BLOCKS WITH EMBEDDED PRE-ENGINEERED SUPPORT STRUT OR PRE-ENGINEERED SUPPORT STRUTS WITH FACTORY PLASTIC BASES. TWO PIECE STRAPS SHALL BE CAPTIVATED AT THE SHOULDER WHEN ATTACHMENT NUT IS TIGHTENED AND DESIGNED FOR USE WITH STRUT SYSTEM. ALL NUTS, BRACKETS AND CLAMPS SHALL HAVE THE SAME FINISH AS THE CHANNELS. SUPPORT PIPE WITH SPACING AS DESCRIBED ABOVE AT A MINIMUM 7" ABOVE THE ROOF. SET SUPPORTS ON 18" X 18" X 3/16" THICK ROOF WALKWAY MATERIAL COMPATIBLE WITH ACTUAL ROOF MATERIAL.

SUPPORTS ON FLOOR: SUPPORT PIPING FROM THE FLOOR WHERE REQUIRED FOR FERROUS PIPE OR INSULATED COPPER TUBE, SHALL BE B-LINE B3093 GALVANIZED STEEL WITH PIPE SADDLE, THREADED SHANK FOR HEIGHT ADJUSTMENT AND FLOOR STAND SECURED TO THE FLOOR.

UNDERGROUND WARNING TAPE: UNDERGROUND WARNING TAPE SHALL BE MARKING SERVICES INCORPORATED # 52205 FOR FERROUS SEWER PIPE AND # 52206 FOR DOMESTIC WATER PIPE OR EQUAL BY BRADY IDENTOLINE AND SETON. PROVIDE 4MIL THICK NON-ADHESIVE POLYETHYLENE TYPE TAPE. DETECTABLE UNDERGROUND WARNING TAPE SHALL BE MARKING SERVICES INCORPORATED # 52216 FOR PLASTIC GAS PIPE AND # 52218 FOR PLASTIC SEWER PIPE. PROVIDE NON-ADHESIVE 4MIL THICK TYPE TAPE WITH 18 AWG COPPER OR ALUMINUM TRACER WIRE SUITABLE FOR DETECTION UP TO 3'-0" OF BURIAL.

BELOW GROUND INSTALLATION FOR SOIL, WASTE AND STORM: INSTALL SOIL AND WASTE PIPING TO A UNIFORM SLOPE OF NOT LESS THAN 1/8" PER FOOT FOR PIPING 4" OR LARGER, AND NOT LESS THAN 1/4" PER FOOT FOR GREASE WASTE PIPING OR PIPING 3" OR SMALLER. SLOPE STORM PIPING AT A SLOPE INDICATED ON FLOOR PLANS. LAY PIPE AT UNIFORM SLOPE, FREE FROM SAGS, WITH HUB END UPSTREAM. MAKE CHANGES IN DIRECTION FROM HORIZONTAL TO VERTICAL, AT FIXTURE BRANCHES AND OTHER BRANCH CONNECTIONS WITH SANITARY "TEES" OR SHORT SWEEP "ELLS". MAKE CHANGES IN DIRECTION FROM VERTICAL TO HORIZONTAL OR HORIZONTAL TO HORIZONTAL WITH LONG RADIUS FITTINGS, LONG SWEEPING "ELLS", COMBINATION "Y AND 1/8 BEND" FITTINGS, OR 45 DEGREE "ELLS" (1/8 BEND FITTINGS), 1/6 BEND OR 1/16 BEND AND "Y" FITTINGS. INSTALL PIPE WITH THE BARREL OF THE PIPE ON FIRM, SOLID EARTH FOR ITS ENTIRE LENGTH, AND EXCAVATE HOLES FOR THE PIPE BELLS. LAY PIPE IN A STRAIGHT LINE AND INSTALL WITH UNIFORM GRADE TO LINE WITH BATTEN BOARDS SET NOT MORE THAN 24'-0" APART. CLOSE OPEN ENDS OF PIPE WITH A STOPPER WHEN PIPE LAYING IS NOT IN PROGRESS. CENTER SPIGOTS ACCURATELY IN BELLS FOR UNIFORM CAULKING. PROVIDE A SMOOTH AND UNIFORM INVERT IN THE SYSTEM. DRILLING OR TAPPING OF SOIL AND WASTE LINES, AND SADDLE HUBS AND BANDS ARE NOT PERMITTED. LOCATE AND INSTALL SOIL AND WASTE LINES AS INDICATED ON THE DRAWINGS. DETERMINE EXACT LOCATIONS IN SUCH A MANNER AS TO MAINTAIN PROPER CLEARANCE. PRIOR TO INSTALLATION OF ANY BUILDING DRAINPIPE, VERIFY ELEVATION OF CONNECTION POINT OF EXISTING SEWER, SERVICE LINE OR EXISTING TENANT CONNECTIONS INDICATED ON THE DRAWINGS.

ABOVE GROUND INSTALLATION FOR SOIL, WASTE AND STORM: INSTALL SOIL AND WASTE PIPING TO A UNIFORM SLOPE OF NOT LESS THAN 1/8" PER FOOT FOR PIPING 4" OR LARGER, AND NOT LESS THAN 1/4" PER FOOT FOR GREASE WASTE PIPING OR PIPING 3" OR SMALLER. SLOPE STORM PIPING AT SLOPE INDICATED ON FLOOR PLANS. LAY PIPE AT UNIFORM SLOPE FREE FROM SAGS. SUPPORT PIPE WITHIN 12" OF EACH JOINT. MAKE CHANGES IN DIRECTION FROM HORIZONTAL TO VERTICAL, AT FIXTURE BRANCHES AND OTHER BRANCH CONNECTIONS WITH SANITARY "TEES" OR SHORT SWEEP "ELLS". MAKE CHANGES IN DIRECTION FROM VERTICAL TO HORIZONTAL OR HORIZONTAL TO HORIZONTAL WITH LONG RADIUS FITTINGS, LONG SWEEPING "ELLS", COMBINATION "Y AND 1/8 BEND" FITTINGS, OR 45 DEGREE "ELLS" (1/8 BEND FITTINGS), 1/6 BEND OR 1/16 BEND AND "Y" FITTINGS. PROVIDE A SMOOTH AND UNIFORM INVERT IN THE SYSTEM. DRILLING OR TAPPING OF SOIL AND WASTE LINES, AND SADDLE HUBS AND BANDS ARE NOT PERMITTED. LOCATE AND INSTALL SOIL AND WASTE LINES AS INDICATED ON THE DRAWINGS. DETERMINE EXACT LOCATIONS IN SUCH A MANNER AS TO MAINTAIN PROPER CLEARANCE.

PLUMBING VENT: CONNECT PLUMBING VENT PIPES TO FIXTURE DRAINPIPES AS INDICATED ON THE DRAWINGS OR AS REQUIRED BY THE INSTALLATION PRACTICES ADOPTED AND ENFORCED BY LOCAL CODES OFFICIAL AND EXTEND VENT PIPES FULL SIZE THROUGH THE ROOF LINE. GRADE PIPE TO A UNIFORM SLOPE SO AS TO DRAIN BACK BY GRAVITY TO THE DRAINAGE PIPING SYSTEM. VENTS PASSING THROUGH THE ROOF SHALL BE MINIMUM 3" SIZE EXCEPT IN TROPICAL CLIMATES, PER LOCAL CODES. TURN FLASHING DOWN INTO STACKS AT LEAST 2" AND EXTEND FLASHING 24" IN ALL DIRECTIONS FROM THE PIPE AT THE ROOF LINE. APPLY WHITE LEAD PIPE DOPE ON MALE STEEL PIPE THREADS. VENT LINES SHALL BE AIR AND WATERTIGHT. VENT FLOOR DRAINS INDIVIDUALLY OR CONNECT THEM TO A HORIZONTALLY VENTED LINE AS SHOWN ON THE DRAWINGS.

DOMESTIC WATER: ARRANGE COLD, HOT, AND HOT WATER RECIRCULATION PIPING TO DRAIN AT THE LOWEST POINT IN EACH SYSTEM. INSTALL AT LEAST ONE PIPE UNION ADJACENT TO ALL SHUTOFF VALVES, AT CONNECTION POINTS OF EACH PIECE OF EQUIPMENT, AND ELSEWHERE IN THE SYSTEM WHERE REQUIRED TO ALLOW PROPER MAINTENANCE. PROVIDE UNIONS OF THE GROUND JOINT TYPE. MAKE ALLOWANCE FOR EXPANSION AND CONTRACTION WHERE REQUIRED BY THE INSTALLATION. WHERE WATER PIPING OCCURS IN EXTERIOR WALLS, HOLD PIPE AS CLOSE AS POSSIBLE TO THE INTERIOR FACE OF WALL AND INSTALL INSULATION BATT OR OTHER INSULATION (MINIMUM R8) BETWEEN PIPING AND THE EXTERIOR WALL FACE. INSTALL PLASTIC UNDERGROUND WARNING TAPE WITH NAME OF SERVICE INDICATED CONTINUOUSLY ALONG ITS LENGTH FOR DOMESTIC WATER PIPE FIVE FEET OUTSIDE THE BUILDING.

NATURAL GAS: PITCH NATURAL GAS PIPING AND PROVIDE ACCESSIBLE DIRT LEGS AT THE LOW POINTS. TAKE BRANCH PIPES OFF THE TOP OR SIDES OF MAIN PIPES, TO PREVENT ACCUMULATION OF WATER IN THE BRANCHES. INSTALL GAS PIPING VALVES AND UNIONS ONLY IN ACCESSIBLE LOCATIONS. DO NOT INSTALL GAS PIPE BELOW THE BASE SLAB.

PIPING SANITIZATION

SANITIZE THE ENTIRE DOMESTIC WATER PIPING SYSTEM (COLD, HOT, AND HOT WATER RETURN) WITH A SOLUTION CONTAINING NOT LESS THAN 50 PPM AVAILABLE CHLORINE. KEEP SOLUTION IN THE SYSTEM FOR A MINIMUM OF 24 HOURS, WITH EACH VALVE BEING OPERATED SEVERAL TIMES DURING THE PERIOD. AFTER COMPLETION, FLUSH SYSTEM WITH CITY WATER UNTIL CHLORINE RESIDUAL IS LOWERED TO INCOMING CITY WATER LEVEL.

PIPE AND VALVE MARKERS

PROVIDE MANUFACTURER'S STANDARD PRE-PRINTED, SEMI-RIGID SNAP-ON OR PERMANENT ADHESIVE, PRESSURE-SENSITIVE VINYL PIPE MARKERS. PIPE MARKERS SHALL BE COLOR-CODED COMPLYING WITH ANSI A13.1.

INSTALL PIPE MARKERS ON EACH PLUMBING PIPING SYSTEM AND INCLUDE ARROWS TO SHOW NORMAL DIRECTION OF FLOW.

LOCATE PIPE MARKERS AND COLOR BANDS WHEREVER PIPING IS EXPOSED TO VIEW IN OCCUPIED SPACES, MACHINE ROOMS, ACCESSIBLE MAINTENANCE SPACES (SHAFTS, TUNNELS, PLENUMS) AND EXTERIOR NON-CONCEALED LOCATIONS.

PROVIDE PLASTIC LAMINATE OR BRASS VALVE TAG ON EVERY VALVE, COCK AND CONTROL DEVICE IN EACH PLUMBING PIPING SYSTEM; EXCLUDE CHECK VALVES, VALVES WITHIN FACTORY-FABRICATED EQUIPMENT UNITS, PLUMBING FIXTURE FAUCETS, CONVENIENCE AND LAWN-WATERING HOSE BIBBS, AND SHUT-OFF VALVES AT PLUMBING FIXTURES AND SIMILAR ROUGH-IN CONNECTIONS OF END-USE FIXTURES AND UNITS.

PLUMBING SPECIALTIES

CLEANOUTS, FLOOR DRAINS AND ROOF DRAINS SHALL BE BY ONE MANUFACTURER IF POSSIBLE. PROVIDE LONG SWEEP FITTINGS FOR CLEANOUT EXTENSIONS; SHORT SWEEPS AT START OF RUNS OR CHANGE IN DIRECTION AND COMBINATION WYE AND EIGHT BEND FITTINGS IN HORIZONTAL RUNS. INSTALL CLEANOUTS WITH A MINIMUM OF 18" CLEAR ALL AROUND, CONSULT LOCAL CODES FOR OTHER REQUIREMENTS, FOR EASY SYSTEM MAINTENANCE. INSTALL PLUG WITH TEFLON JOINT COMPOUND.

FLOOR CLEANOUTS: INSTALL CLEANOUTS AT POINTS AS NOTED ON THE DRAWINGS, AT THE BUILDING EXIT; AT A MINIMUM OF EVERY 50 FEET IN HORIZONTAL SOIL AND WASTE LINES; AND AT TURNS OF PIPE GREATER THAN 45 DEGREES CLEANOUTS SHALL BE FULL SIZE OF THE PIPE UP TO 4", AND 4" SIZE FOR PIPES LARGER THAN 4". DETERMINE THE TYPE OF FLOOR COVERING TO BE USED AT EACH FLOOR CLEANOUT LOCATION AND PROVIDE TOP WITH VARIATIONS SUITABLE FOR FLOOR COVERING (CARPET MARKERS, RECESSED FOR TILE AND SCORIATED FOR UNFINISHED FLOOR). ROUGH-IN AND INSTALL EACH FLOOR CLEANOUT FLUSH WITH THE FINISHED FLOOR CONSTRUCTION.

EXTERIOR CLEANOUTS: INSTALL CLEANOUTS AT POINTS AS NOTED ON THE DRAWINGS, AT THE BUILDING EXIT; AT A MINIMUM OF EVERY 100 FEET IN HORIZONTAL SOIL, WASTE AND STORM SERVICE LINES. EMBED EACH EXTERIOR CLEANOUT IN AN 18" X 18" X 8" BLOCK OF CONCRETE, FLUSH WITH FINISHED GRADE.

WALL CLEANOUTS: INSTALL WALL CLEANOUTS AT POINTS AS NOTED ON THE DRAWINGS; AT THE FOOT OF EACH SOIL, WASTE OR INTERIOR DOWNSPOUT STACK; AT HORIZONTAL SOIL AND WASTE BRANCHES LONGER THAN FIVE FEET NOT SERVED BY A FLOOR CLEANOUT; CONSULT LOCAL CODES FOR INSTALLATION AT SPECIFIC FIXTURE TYPES. INSTALL WALL CLEANOUTS ABOVE THE FLOOD RIM OF THE FIXTURE SERVED WITHIN FOUR FEET OF THE FLOOR AND INSTALL EXTENSIONS FROM THE CLEANOUT TEE TO THE WALL TO LOCATE THE PLUG WITHIN 2" OF THE WALL WHERE REQUIRED. INSTALL CLEANOUTS ON URINALS AND SINKS WHERE REQUIRED BY CODE.

ROOF DRAINS: PROVIDE WITH ROOF SUMP RECEIVER, EXTENSION, SECONDARY FLASHING CLAMPS AND UNDERDECK CLAMP AS REQUIRED; PROVIDE EXPANSION JOINTS WHERE REQUIRED. PROVIDE OVERFLOW ROOF DRAINS WHERE INDICATED ON THE DRAWINGS WITH INLET FLOW LINE 2" ABOVE THE PRIMARY ROOF DRAIN INLET.

VALVES, STRAINERS, AND UNIONS

PLUMBING SYSTEM VALVES SHALL BE CRANE COMPANY OR NIBCO OF MODELS HEREIN SPECIFIED, OR APPROVED EQUAL BY HAMMOND, MILWAUKEE, STOCKHAM OR MUELLER VALVES. VALVES SHALL BE OF THE BEST QUALITY, DESIGNED FOR 125 PSI STEAM WORKING PRESSURE. INSTALL VALVES ON THE HOT AND COLD-WATER LINES AT THE WATER HEATER CONNECTIONS AND OTHER ITEMS OF EQUIPMENT, AT BRANCHES FROM MAINS SERVING GROUPS OF FIXTURES, AND AT OTHER PLACES INDICATED OR REQUIRED BY THE INSTALLATION TO ALLOW EASE OF FUTURE MAINTENANCE.

GATE VALVES: CLASS 125, SIZE 2" AND SMALLER SHALL BE NIBCO #S-113-LF NON-RISING STEM, SOLDERED LEAD FREE BRONZE BODY AND PARTS, WITH WEDGE DISC. GATE VALVES 2-1/2" AND LARGER SHALL BE NIBCO #617-0, O.S. & Y., IRON BODY FLANGED WEDGE GATE WITH BRASS SEATS AND STEM.

BALL VALVES (MAY BE USED IN LIEU OF GATE VALVES UP TO 2"): 2" AND SMALLER, NIBCO #S-685-80-LF; TWO PIECE LEAD FREE BRONZE BODY, WITH SOLDERED ENDS, CHROME PLATED BRONZE BALL WITH CONVENTIONAL PORT, 600 PSI, BLOW-OUT PROOF STEM.

GLOBE VALVES: GLOBE VALVES SHALL BE CLASS 125. GLOBE VALVES 2" AND SMALLER SHALL BE NIBCO #T-211 OR MILWAUKEE #UP1502, SCREWED LEAD FREE BRONZE BODY AND BRASS DISC. GLOBE VALVES 2-1/2" AND LARGER SHALL BE CRANE #351 IRON BODY FLANGED VALVE WITH BRASS TRIM.

CHECK VALVES: CHECK VALVES SHALL BE CLASS 125. CHECK VALVES FOR INSTALLATION IN HORIZONTAL PIPE RUNS SHALL BE OF THE "SWING DISC" DESIGN. HORIZONTAL CHECK VALVES 2" AND SMALLER SHALL BE MILWAUKEE #UP1509 OR NIBCO #S-413-Y-LF WITH SOLDERED LEAD FREE BRONZE BODY AND BRONZE DISC. HORIZONTAL CHECK VALVES 2-1/2" AND LARGER SHALL BE CRANE #373 OR NIBCO F-918 IRON BODY FLANGED VALVE WITH BRASS TRIM. CHECK VALVES FOR INSTALLATION IN VERTICAL PIPE RUNS SHALL BE OF THE "VERTICAL LIFT" SPRING LOADED DESIGN. VERTICAL CHECK VALVES 2" AND SMALLER SHALL BE MILWAUKEE #UP1548T OR NIBCO #S-480-Y-LF WITH SOLDERED LEAD FREE BRONZE BODY AND BRONZE DISC. VERTICAL CHECK VALVES 3" AND LARGER SHALL BE CENTER GUIDED.

GAS COCKS: GAS COCKS 2" AND SMALLER SHALL BE HOMESTEAD #611, SCREWED IRON BODY WITH BRASS TRIM AND FLAT HEAD. GAS COCKS 2-1/2" AND LARGER SHALL BE HOMESTEAD #612 FLANGED SEMI-STEEL BODY WITH IRON TRIM AND SQUARE HEAD. APPROVED EQUAL ARE FLOWSERVE-NORDSTROM OR RM ENERGY SYSTEMS "HERCULES".

GAS LINE PRESSURE REGULATORS: GAS LINE PRESSURE REGULATORS SHALL BE BY AMERICAN METER COMPANY, FISHER, ITRON, MAXITROL OR SENSUS WITH CAPACITIES AS SCHEDULED ON THE DRAWINGS. REGULATORS SHALL BE SINGLE STAGE, STEEL JACKETED, CORROSION-RESISTANT TYPE WITH INTERSTITIAL RELIEF VALVE WITH ATMOSPHERIC VENT, ELEVATION COMPENSATOR; WITH THREADED ENDS, FOR INLET AND OUTLET.

STRAINERS: STRAINERS 2" AND SMALLER SHALL BE WATTS #LFS777SI WITH SOLDERED LEAD FREE BRONZE, BRASS CAP AND MONEL 40 MESH SCREEN. STRAINERS 2-1/2" AND LARGER SHALL BE WATTS #77F-DI-FDA-125 WITH FLANGED IRON BODY WITH FUSED FDA EPOXY COATING, BOLTED IRON CAP AND STAINLESS STEEL SCREEN WITH 1/16" PERFORATIONS. STRAINERS SIZE 2-1/2" AND LARGER SHALL HAVE A 1" BLOW-OFF LINE WITH A 1" GATE VALVE CONNECTED TO THE BLOW-OFF CONNECTION AND SHALL BE EXTENDED TO THE NEAREST FLOOR DRAIN.

UNIONS: FERROUS UNIONS SHALL BE CRANE OR EQUAL, COMBINATION IRON AND BRASS, GROUND JOINT WITH SCREWED ENDS. COPPER UNIONS SHALL BE STREAMLINE OR EQUAL, CAST BRONZE SWEAT TYPE WITH GROUND JOINT. FERROUS TO COPPER UNIONS SHALL BE UNIVERSAL CONTROLS OR EQUAL, DIELECTRIC TYPE WITH THREADED NYLON INSERT.

FLOW CONTROL VALVES: FOR INSTALLATION IN HOT WATER RECIRCULATION LINES, SHALL BE BELL & GOSSETT #CB "CIRCUIT SETTER" LEAD FREE OR EQUAL BY ARMSTRONG OR NIBCO WITH BRONZE BODY, BRASS BALL, TFE SEAT RINGS, CALIBRATED ORIFICE, MEMORY STOP, READOUT VALVES WITH INTERNAL CHECK VALVES, DRAIN PORT AND SWEAT CONNECTIONS. PROVIDE BALL VALVE, STRAINER AND CHECK VALVE UPSTREAM AND UNION AND BALL VALVE DOWNSTREAM OF EACH FLOW CONTROL VALVE. SET THE FLOW CONTROL VALVES TO THE FLOWS AS INDICATED ON THE DRAWINGS.

REGISTRATION SEAL

SEAL 035265
ROBERT L. QUEATHEM

4/16/25

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EST. 1998
SCOOTER'S COFFEE ®

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TITLE:

PLUMBING SPECIFICATIONS

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

KIOSK PROTOTYPE:
4.2 REVERSE PROTOTYPE
JUNE 2024

ISSUE DATE:
03/21/2024

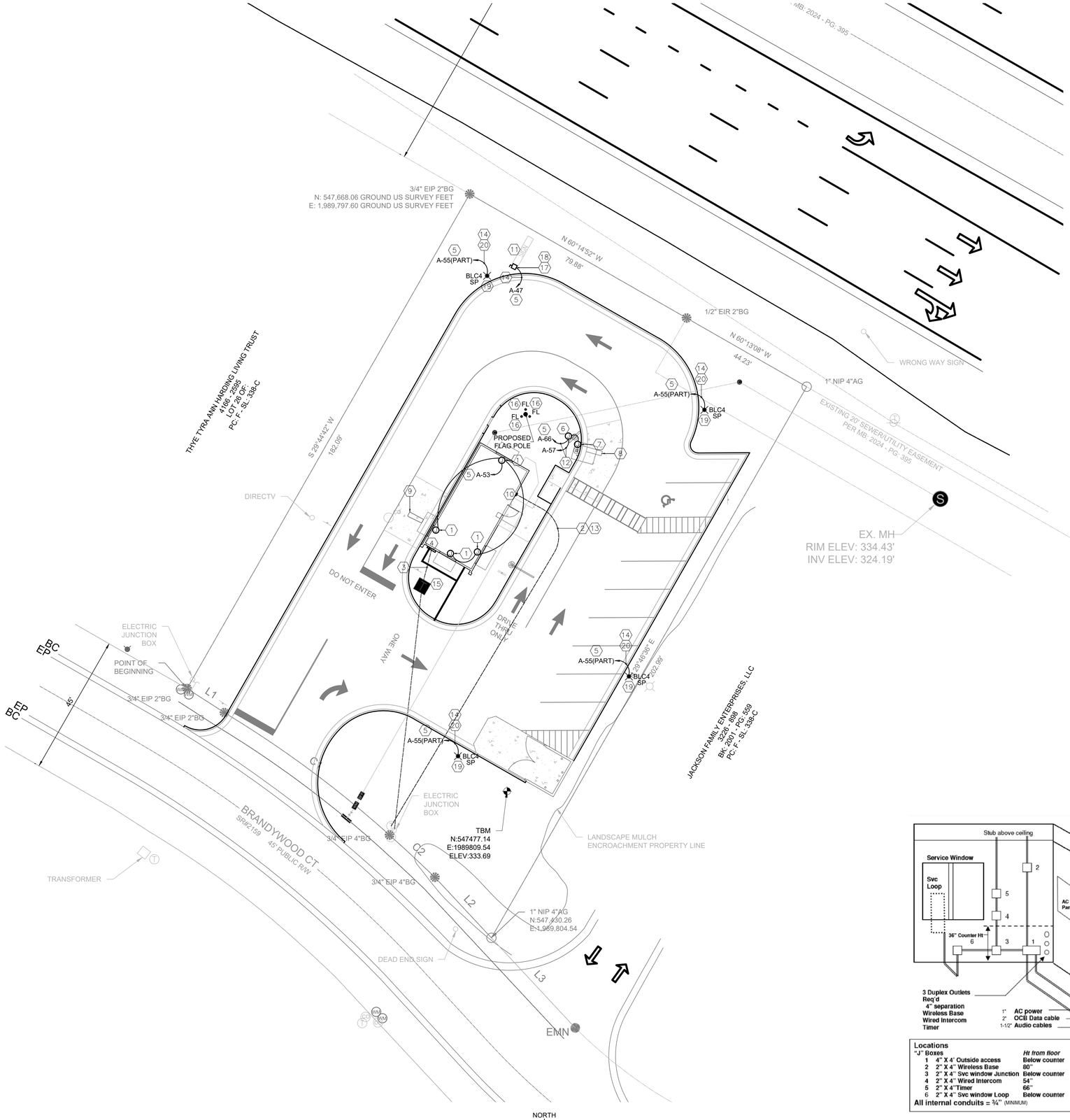
PROJECT NO.
240761

DRAWN BY:
CDH

CHECKED BY:
ACR

SHEET NO.

P4.0



1 ELECTRICAL SITE PLAN
SCALE: 1/16"=1'-0"

SITE GENERAL NOTES

A. ALL EXTERIOR LIGHT FIXTURES TO COMPLY WITH LOCAL NIGHT SKY ORDINANCE.

B. ALL EXTERIOR LIGHTING AND SIGNAGE TO BE FED WITH #10 CU. U.N.O.

C. ALL EXTERIOR ELECTRICAL EQUIPMENT TO BE NEMA-3R RATED.

D. CONTRACTOR TO COORDINATE EXACT SITE LIGHTING FIXTURE LOCATIONS WITH LANDSCAPE DRAWINGS.

E. ALL FIXTURES INSTALLED OUTDOORS SHALL BE RATED FOR DAMP/WET LOCATIONS AS REQUIRED. THE CONTRACTOR SHALL COORDINATE DAMP/WET LOCATION RATING PER NEC ARTICLE 410-0. ALL INSTALLATIONS SHALL CONFORM TO NEC ARTICLE 410, ALL SUB ARTICLES.

F. FIRE ALARM EQUIPMENT SHALL BE COORDINATED FOR EXACT LOCATION AND REQUIREMENTS WITH FIRE MARSHALL.

G. ALL CONDUIT MUST HAVE A MINIMUM OF #12 CU. GROUND CONDUCTOR AND INSTALL PER BURIAL GUIDELINES IN THE NEC.

H. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND SCHEDULING WITH POWER AND TELEPHONE UTILITY COMPANIES INCLUDING (2) COMPLETE SETS OF DRAWINGS TO EACH COMPANY. ALL WORK SHALL BE INSTALLED PER EACH UTILITY COMPANY'S FINAL DESIGN DRAWINGS.

I. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL EXTERIOR LIGHT FIXTURES WITH ARCHITECTURAL DRAWINGS.

J. ALL UNDERGROUND CONDUITS SHALL BE INSTALLED IN COMPLIANCE WITH SECTION 300.5 OF THE N.E.C..

K. CONDUIT BENDS - NUMBER OF BENDS IN ONE RUN. THERE SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (360 DEGREES TOTAL BETWEEN PULL POINTS (I.E. JUNCTION BOX) CONTRACTOR TO PROVIDE ADDITIONAL JUNCTION BOXES AS NEEDED. (NOTE: ALL JUNCTION BOXES SHALL BE RATED (PER CODE) FOR THE LOCATION FOR WHICH THEY ARE INSTALLED I.E. W.P. AND/OR TRAFFIC-RATED).

L. CONTRACTOR FIELD VERIFY EXACT MOUNTING LOCATION OF ALL PROPOSED EQUIPMENT/SIGNAGE/SITE LIGHTING/ETC., PRIOR TO START OF WORK. FIELD VERIFY ALL UNDERGROUND UTILITIES PRIOR TO START OF WORK. ALL TRENCHING SHOWN ON THIS PLAN SHALL BE CONSIDERED A GRAPHICAL REPRESENTATION. ALL TRENCHING & ROUTING OF CONDUITS SHALL BE DETERMINED/VERIFIED BY THE CONTRACTOR IN FIELD. COORDINATE ALL TRENCHING WITH LANDLORD, UTILITY COMPANY & SCOOTER'S CONSTRUCTION MANAGER TO AVOID CONFLICTS/DAMAGE. WHEN APPLICABLE,COORDINATE RESPONSIBILITIES OF PATCHING/REPAIRING PARKING LOT WITH LANDLORD & SCOOTER'S CONSTRUCTION MANAGER.

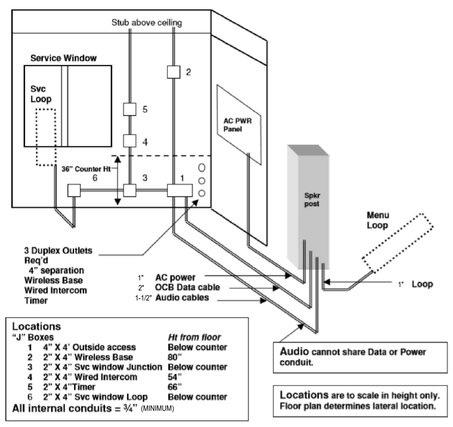
M. REFER TO SERVING UTILITY COMPANY'S SPECIFICATION GUIDE FOR ADDITIONAL INFORMATION, REQUIREMENTS & RESPONSIBILITIES. INCLUDING, BUT NOT LIMITED TO, TRANSFORMER PAD REQUIREMENTS, CONDUIT TRENCHING, ROUTING SPECIFICATIONS, METERING & TERMINATIONS.

N. COORDINATE WITH OTHER TRADES FOR ROUTING OF CONDUIT ABOVE AND BELOW GROUND.

O. ALL SITE AND BUILDING SIGNAGE ARE UNDER A SEPARATE PERMIT.

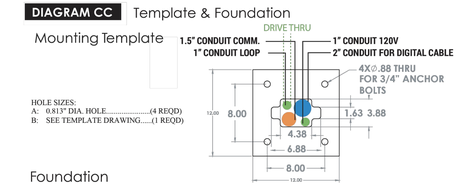
SITE KEYED NOTES (X)

1. PROVIDE WP J-BOX FOR EXTERIOR SIGNAGE PER NEC. COORDINATE EXACT PRIOR TO INSTALLATION. EXTEND CIRCUIT THROUGH WALL TO SWITCH. REFER TO SHEET E2.1 FOR MORE INFORMATION. VERIFY EXACT REQUIREMENTS W/ OWNER.
2. UNDERGROUND CONDUIT WITH PULL WIRE PER TELEPHONE COMPANY REQUIREMENTS. TRENCH AND BACKFILL AS REQUIRED. REFER TO TABLE 300.5 FOR ADDITIONAL REQUIREMENTS. PROVIDE SINGLE 2-1/2" CONDUIT (RATED FOR THE ENVIRONMENT USED) IF THE TELEPHONE COMPANY DOESN'T PROVIDE INSTALLATION REQUIREMENTS.
3. NEW SECONDARY FEEDERS FROM UTILITY TRANSFORMER (SINGLE-LINE ROUTING SHOWN FOR CLARITY) TO UTILITY SERVICE-POINT. PROVIDE FEEDERS IN THE QUANTITY, SIZE(S), AND ARRANGEMENT PER THE ONE-LINE DIAGRAM. CONTINUE FEEDER RUN FROM SERVICE-POINT TO CUSTOMER'S SERVICE EQUIPMENT. REFER TO ONE-LINE AND CIVIL PLANS.
4. PROPOSED LOCATION OF NEW SERVICE ENTRANCE SECTION IN NEMA-3R ENCLOSURE. REFER TO ONE-LINE DIAGRAM ON SHEET E1.2.
5. ROUTE CIRCUIT THRU TIMECLOCK (CONTACTOR). COORDINATE TIMECLOCK CONTROL SETTINGS WITH DETAIL #2 ON SHEET E2.1.
6. PROVIDE STUB-UP FOR DRIVE-THRU DIGITAL MENU BOARD. COORDINATE EXACT POWER REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION. SEE DIGITAL MENU BOARD SCHEMATIC ON THIS SHEET FOR MORE INFORMATION.
7. PROVIDE WP J-BOX FOR DRIVE-THRU SPEAKER. COORDINATE EXACT POWER REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION. SEE DRIVE-THRU CONDUIT SCHEMATIC ON THIS SHEET FOR MORE INFORMATION.
8. CONNECT SPEAKER PEDESTAL TO DETECTION LOOP. COORDINATE EXACT REQUIREMENT WITH MANUFACTURER PRIOR TO ROUGH-IN. SEE DRIVE-THRU CONDUIT SCHEMATIC ON THIS SHEET FOR MORE INFORMATION
9. PROVIDE STUB-UP FOR DETECTION LOOP. COORDINATE EXACT REQUIREMENT WITH MANUFACTURER PRIOR TO ROUGH-IN. SEE DRIVE-THRU CONDUIT SCHEMATIC ON THIS SHEET FOR MORE INFORMATION.
10. PROPOSED LOCATION OF MAIN-POINT OF PRESENCE FOR TELEPHONE COMPANY DEMARCATION AND TERMINATION.
11. EXACT LOCATION OF SITE PYLON/MONUMENT SIGN TO BE DETERMINED BY SIGN VENDOR. SIGN LOCATION SHOWN POWER REFERENCE ONLY. CONTRACTOR TO FIELD-VERIFY LOCATION OF PYLON/MONUMENT SIGN PRIOR TO OUTING/INSTALLING POWER TO SITE SIGNAGE. SIGNAGE UNDER SEPARATE PERMIT.
12. PROVIDE (4) #10 & (1) #10G IN 1-1/2" NON-METALLIC CONDUITS AT 24" (MINIMUM) BELOW FINISHED GRADE PER NEC 300.5. FOR DRIVE THRU DIGITAL MENU BOARD. REFER TO DRIVE THRU SCHEMATIC ON THIS SHEET FOR MORE INFORMATION.
13. TERMINATE AND STUB CONDUIT TO PROPERTY LINE OR EXISTING CABINET PER TELEPHONE COMPANY REQUIREMENT.
14. PROVIDE (2) #10 & (1) #10G IN 1" NON-METALLIC CONDUIT AT 24" (MINIMUM) BELOW FINISHED GRADE PER NEC 300.5. VERIFY EXACT ROUTING PRIOR TO INSTALLATION. TRENCH, BACKFILL, AND REPAIR LANDSCAPE/HARDSCAPE.
15. VERIFY POWER COMPANY TRANSFORMER LOCATION. COORDINATE WITH UTILITY OWNER FOR EXACT LOCATION.
16. PROVIDE AND INSTALL SOLAR FLAG POLE LIGHT. COORDINATE SPECIFICATION, SUPPLIER, AND REQUIREMENTS WITH OWNER AND ARCHITECT PRIOR TO BID.
17. VERIFY DISCONNECT SWITCH MOUNTING LOCATION WITH SIGN VENDOR AND MAKE FINAL CONNECTIONS TO SIGN.
18. STUB-UP UNDERGROUND CONDUIT AND INSTALL A WEATHERPROOF J-BOX WITH GASKETED BLANK COVERPLATE. EXTEND CIRCUIT IN "SEALTITE" CONDUIT FROM J-BOX TO SIGN DISCONNECT SWITCH.
19. NEW POLE MOUNTED SITE LIGHTING FIXTURE. SEE LIGHTING SCHEDULE ON SHEET E2.1 FOR ADDITIONAL INFORMATION. MAKE ALL FINAL CONNECTIONS PER MANUFACTURER'S SPECIFICATIONS. REFER TO STRUCTURAL DRAWINGS FOR POLE BASE DETAIL. PROVIDE ALL NECESSARY MOUNTING ACCESSORIES. FIXTURE SHALL BE MOUNTED AT 15'-0" AFG.
20. CONTRACTOR TO DETERMINE CONDUIT ROUTING IN FIELD (INCLUDING ALL STUB-UP LOCATIONS). VERIFY ALL UNDERGROUND UTILITIES PRIOR TO START OF WORK. COORDINATE INSTALLATION WITH SCOOTER'S CONSTRUCTION MANAGER.



2 DRIVE THRU CONDUIT SCHEMATIC
SCALE: NONE

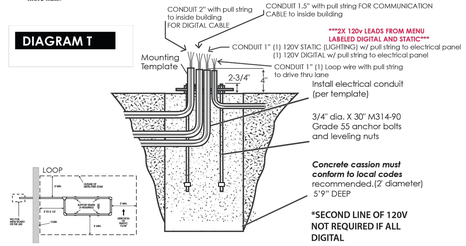
DIAGRAM CC Template & Foundation



Foundation

The high voltage conduit must be installed in place by a qualified contractor. It runs from the power source to the menu board location. A conduit stub should protrude 4" above the concrete slab **(see Diagram T)** Use the template supplied for the correct relation between the mounting bolts and the conduit location. Power and ground leads should be pulled through the conduit approximately 12" beyond the conduit stub, and be accessible at the time of final wiring. **Note: The 120VAC power lines run up the inside back of the pedestal base (see Diagram CC, Mounting Template)**
After the location is established, pour the concrete footing per local codes. While the concrete is still soft, insert the four (4) anchor bolts. Use the supplied template as a bolt and conduit locator. Anchor bolts should be 2-3/4" above grade (see Diagram F Foundation. **Note: Prior to placing the template down, one (1) nut must be threaded onto each anchor bolt and sunk into the concrete, flush with the top of the nut.** Place the template over the eight (4) anchor bolts and secure in place with four (4) more nuts.

DIAGRAM T



3 DIGITAL MENUBOARD SCHEMATIC
SCALE: NONE

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NORTH CAROLINA PROFESSIONAL SEAL 035265 ENGINEER ROBERT L. QUEATHEM
4/16/25

SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
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9			

TITLE:
ELECTRICAL SITE PLAN

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

KIOSK PROTOTYPE:
4.2 REVERSE PROTOTYPE
JUNE 2024
ISSUE DATE:
03/21/2024
PROJECT NO.
240761
DRAWN BY:
BPA
CHECKED BY:
SAH

SHEET NO.
E0.1

ELECTRICAL SPECIFICATIONS

26000 COMMON WORKS FOR ELECTRICAL SYSTEMS

PART 1 - GENERAL

1.0 DESCRIPTION

A. THE GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND GENERAL REQUIREMENTS, APPLY TO THE WORK SPECIFIED IN THIS DIVISION.

B. CONTRACTOR SHALL VISIT THE SITE TO CONFIRM ITEMS LISTED AS EXISTING BY LANDLORD. ITEMIZED BIDS SHALL BE PROVIDED TO COMPLETE ANY SCOPE GAP ITEMS TO ENSURE ALL WORK REQUIRED BY THE CONTRACTOR IS INCLUDED IN THE SCOPE.

C. PRIOR TO FINAL BID, REFER DISCREPANCIES, ERRORS, OMISSIONS AND AMBIGUITIES IN THE CONTRACT DOCUMENTS TO THE OWNER'S REPRESENTATIVE IN WRITING. PROVIDE RESOLVED MATERIALS AND LABOR APPROVED BY THE OWNER'S REPRESENTATIVE AS PART OF THE FINAL BID.

D. THE INTENT OF THE CONTRACT DOCUMENTS IS TO PROVIDE COMPLETE SYSTEMS. PROVIDE MISCELLANEOUS ITEMS AND ACCESSORIES FOR COMPLETE SYSTEMS.

1.1 WORK INCLUDED

A. FURNISH LABOR, SUPPLIES, MATERIALS, EQUIPMENT AND INCIDENTALS NECESSARY FOR INSTALLATION OF A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM, AS SPECIFIED HEREIN. THIS SECTION, AS WELL AS THE REST OF THE CONTRACT DOCUMENTS APPLY TO THE PROJECT.

B. COORDINATE WITH ALL OTHER TRADES FOR ELECTRICAL EQUIPMENT CONNECTIONS AND INSTALLATIONS.

C. THE CONTRACT DOCUMENTS ARE A COMPLETE SCOPE OF WORK INCLUDING, BUT NOT LIMITED TO, ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND SPECIFICATIONS. CONTRACTOR TO REVIEW THE ENTIRE SET OF CONTRACT DOCUMENTS.

1.2 QUALITY ASSURANCE

A. ELECTRICAL WORK SHALL BE EXECUTED IN ACCORDANCE WITH LOCAL, STATE AND NATIONAL CODES, ORDINANCES AND REGULATIONS OF LOCAL AUTHORITIES HAVING JURISDICTION OVER THE WORK. IF THE STANDARDS AND CODES CONFLICT WITH EACH OTHER, THE MOST STRINGENT SHALL APPLY.

B. PRODUCTS SPECIFIED IN DIVISION 16 FOR WHICH MANUFACTURERS ARE NOTED MUST STILL COMPLY WITH ALL CONTRACT DOCUMENTS. MENTION OF MANUFACTURER BY NAME, OR A SPECIFIC PRODUCT IS NOT INTENDED TO LIMIT OTHER MANUFACTURERS FROM THE PROJECT.

C. PERFORM ALL WORK IN ACCORDANCE WITH THE REGULATIONS AND ORDINANCES OF LOCAL MUNICIPAL AND STATE AGENCIES WHO HAVE LAWFUL JURISDICTION OVER THE PROJECT.

D. PROTECT ALL PRODUCTS DURING DELIVERY AND HANDLING AT THE SITE.

1.3 GOVERNING CODES

A. LOCAL MUNICIPALITY ELECTRICAL CODES AND ORDINANCES.

B. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), 70-NATIONAL ELECTRICAL CODE.

C. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), 29 CFR 1910.

D. AMERICANS WITH DISABILITIES ACT OF 1990 (ADA).

E. AMERICAN NATIONAL STANDARD INSTITUTE (ANSI).

F. NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION (NEMA) STANDARDS.

G. UNDERWRITER LABORATORIES INCORPORATED STANDARDS (UL).

H. INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE).

I. NATIONAL ELECTRICAL SAFETY CODE (NESC).

J. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM).

K. MANUFACTURER'S RECOMMENDATIONS.

1.5 JOB REQUIREMENTS AND CONDITIONS:

A. PERMITS, LICENSES AND INSPECTIONS SHALL BE SECURED AND PAID FOR AS REQUIRED BY LAW FOR THE COMPLETION OF THE WORK. CERTIFICATES OF APPROVAL SHALL BE SECURED, PAID FOR, AND DELIVERED TO THE OWNER BEFORE THE FINAL ACCEPTANCE OF THE WORK.

B. COORDINATE WITH ALL TRADES TO AVOID CONFLICTS IN THE INSTALLATION OF WORK. COORDINATE EQUIPMENT, PIPING, CONDUITS AND RACEWAYS TO ALLOW FOR SPACE FOR OTHER TRADES.

C. NOTIFY PROPER AUTHORITIES HAVING JURISDICTION FOR INSPECTIONS AS REQUIRED BY THE LOCAL MUNICIPALITY.

1.6 SUBMITTALS

A. PRODUCT DATA: PROVIDE MANUFACTURERS' PUBLISHED ENGINEERING DATA AND MATERIALS. ANY SUBMITTED PRODUCTS DIFFERENT THAN THE SPECIFIED PRODUCTS SHALL BE CLEARLY IDENTIFIED IN THE SUBMITTAL.

B. PROVIDE TEST REPORTS, MATERIAL LISTINGS AND ANY REQUIRED CERTIFICATES.

C. OPERATION AND MAINTENANCE DATA TO BE PROVIDED TO THE OWNER AT THE COMPLETION OF THE PROJECT WITH OWNER TRAINING.

1.7 WARRANTY

A. FURNISH THE MANUFACTURER'S PRINTED WARRANTY FOR EACH SEPARATE ITEM, ALONG WITH CONTRACTOR'S WRITTEN ONE (1) YEAR GUARANTEE. WARRANTY SHALL INCLUDE LABOR NECESSARY TO REPLACE DEFECTIVE PARTS DURING THE WARRANTY PERIOD.

PART 2 - PRODUCTS

2.0 MATERIALS

A. NEW, FREE FROM DEFECTS AND OF COMMERCIAL GRADE STANDARD MANUFACTURING BY REPUTABLE MANUFACTURERS.

B. ALL ELECTRICAL EQUIPMENT SHALL HAVE IDENTIFICATION TAGS. INSTALL NAMEPLATES ON ELECTRICAL DEVICES. TEXT SHALL INDICATE THE COMPONENT AS IDENTIFIED IN THE CONSTRUCTION DOCUMENTS.

C. PROVIDE TYPE WRITTEN PANEL SCHEDULES FOR ALL PANELBOARDS AFTER FINAL INSTALLATION IS COMPLETE, IDENTIFYING THE BRANCH CIRCUITS AND AREAS SERVED.

D. ALL SIMILAR MATERIALS SHALL BE BY THE SAME MANUFACTURER.

2.1 SUBSTITUTIONS

A. PROJECT TO BE BID PER CONTACT DOCUMENTS EXCLUDING ANY SUBSTITUTIONS AND SUBSTITUTION REQUESTS TO BE PROVIDED PER DIVISION 1 REQUIREMENTS.

B. REQUESTS IMPLY NO OBLIGATION ON THE OWNER.

C. APPROVED SUBSTITUTIONS THAT REQUIRE CHANGES, INCLUDING WORK IN OTHER DIVISIONS, SHALL HAVE NO ADDITIONAL COSTS TO THE OWNER.

D. SUBSTITUTIONS DURING ANY VALUE ENGINEERING WILL PROVIDE CREDIT TO THE OWNER FROM THE ORIGINAL CONSTRUCTION BID.

PART 3 - EXECUTION

3.0 INSPECTION

A. ANY MATERIALS DAMAGED UPON RECEIPT SHALL BE REPLACED. ANY MATERIALS DAMAGED WHILE ON SITE SHALL BE REPLACED AT NO COST TO OWNER.

B. BEFORE STARTING WORK, REPORT ANY STRUCTURAL DEFECTS THAT WILL ADVERSELY AFFECT THE QUALITY AND EXECUTION OF WORK TO OWNER'S REPRESENTATIVE.

C. ANY OBSERVED ITEMS IN THE BUILDING AND SITE THAT MIGHT POSE A SAFETY HAZARD TO THE OWNER, CONTRACTOR, BUILDING USERS OR MAINTENANCE PERSONNEL THAT WILL BE INVOLVED WITH THE UPKEEP OF THE BUILDING'S ELECTRICAL AND MECHANICAL SYSTEMS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE.

3.1 INSTALLATION

A. CLEAN AND MODIFY ALL SURFACES AND STRUCTURES FOR WHICH MATERIALS ARE TO BE INSTALLED FOR A PROPER AND SECURE INSTALLATION.

B. CONSTRUCTION DOCUMENTS ARE DIAGRAMMATIC AND CONTRACTOR IS TO FIELD VERIFY ALL ROUTING, LOCATIONS AND CONFLICTS WITH OTHER TRADES AT NO COST TO OWNER. ENGINEER DOES NOT VERIFY QUANTITY OF MATERIALS NEEDED FOR A COMPLETE INSTALLATION.

C. INSTALL ALL MATERIALS PER THE GOVERNING CODES.

D. EXTERIOR TRENCHING TO FOLLOW DIVISION 2 SITE WORK FOR EXCAVATION AND BACKFILL.

E. WHERE CUTTING AND PATCHING IS REQUIRED, RESTORE DISTURBED WORK TO MATCH ADJACENT FINISHES. WHERE WORK INVOLVES STRUCTURAL MEMBERS OR WALLS, CONSULT OWNER'S REPRESENTATIVE IN WRITING FOR STRUCTURAL ENGINEER TO VERIFY ACCEPTANCE.

F. PAINTING TO BE PROVIDED PER MANUFACTURER'S RECOMMENDATIONS. MARRED EQUIPMENT SHALL BE FINISHED WITH TOUGH-UP PAINT FOR EQUIPMENT TO LOOK NEW AND FREE OF DAMAGE.

G. PROVIDE FIRE RATED SLEEVES WHERE PENETRATING FIRE RATED WALLS WITH RATED ASSEMBLIES OR RACEWAY WITH FIRE SEALING.

H. EXTERIOR WALL PENETRATIONS TO BE WATER TIGHT. PROVIDE FLASHINGS, SEALANTS AND CAULKS TO PREVENT WATER INTRUSION.

I. MAINTAIN RECORD 'AS-BUILT' DRAWINGS THROUGHOUT THE CONSTRUCTION PROCESS.

26100 ELECTRICAL

PART 1 - GENERAL

1.0 INSPECTION

A. FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEMS. MINIMUM MATERIAL AND EQUIPMENT SPECIFICATIONS PROVIDED IN THIS SECTION.

PART 2 - PRODUCTS

2.0 MATERIALS

A. PRODUCTS FROM MANUFACTURERS SHALL BE UL LABELED AND LISTED FOR THE APPLICATION USED.

2.1 CONDUCTORS AND CABLES

A. COPPER BUILDING WIRE: FLEXIBLE, INSULATED AND UN-INSULATED, DRAWN COPPER CURRENT-CARRYING CONDUCTOR WITH AN OVERALL INSULATION LAYER OR JACKET, OR BOTH, RATED 600V OR LESS. COMPLY WITH UL 83.
1. FEEDERS: TYPE XHHW, THHN/THWN, 600V, COPPER, 75°C RATING.
2. BRANCH CIRCUITS: TYPE THHN/THWN, 600V, COPPER, 75°C RATING. ALL BRANCH CIRCUITS TO HAVE A DEDICATED NEUTRAL. NO COMMON NEUTRAL WITH TANDEM BREAKERS ALLOWED.
3. MINIMUM WIRE SIZE SHALL BE #12 AWG.
4. CONDUCTORS TO BE SOFT DRAWN, ANNEALED COPPER WITH A CONDUCTIVITY OF NOT LESS THAN 98% PURE COPPER AND UL LISTED.
5. CONDUCTORS #10 AWG AND SMALLER TO BE SOLID.
6. CONDUCTORS #8 AWG AND LARGER TO BE STRANDED.
7. 480Y/277V, 3-PHASE SYSTEMS:
   a. PHASE A - BROWN
   b. PHASE B - ORANGE
   c. PHASE C - YELLOW
   d. NEUTRAL - GRAY
   e. GROUND - GREEN WITH YELLOW STRIPE
8. 208Y/120V, 3-PHASE SYSTEMS:
   a. PHASE A - BLACK
   b. PHASE B - RED
   c. PHASE C - BLUE
   d. NEUTRAL - WHITE
   e. GROUND - GREEN
9. 240/120V , 1-PHASE SYSTEMS:
   a. PHASE A - BLACK
   b. PHASE B - RED
   c. NEUTRAL - WHITE
   d. GROUND - GREEN

B. WIRING CONNECTORS:
1. TWIST-ON CONNECTORS TO BE SPRING INSULATED TYPE.
2. COMPRESSION CONNECTORS TO BE LONG BARREL TYPE FOR DOUBLE FOR 600V WIRING FOR 250 KCMIL AND LARGER.
3. INSULATED SPLIT BOLTS FOR FOR 600V WIRING SMALLER THAN 250 KCMIL.

2.2 GROUNDING AND BONDING

A. SYSTEM
1. GROUND-UP BUILDINGS - COMPLETE GROUNDING ELECTRODE SYSTEM CONFORMING WITH ALL REQUIREMENTS OF NEC 250.52(A)(1) THROUGH (A)(7) THAT ARE PRESENT AT THE BUILDING SHALL BE BONDED TOGETHER. PROVIDE ISOLATED BUS BAR IN MAIN ELECTRICAL ROOM AND TELECOM ROOMS. RESISTANCE TO EARTH TO BE 5 OHMS OR LESS. ADD GROUNDING ELECTRODE SYSTEMS AS NECESSARY TO REACH RESISTANCE LEVELS
   a. METAL UNDERGROUND WATER PIPE.
   b. METAL FRAME OF BUILDING OR STRUCTURE.
   c. CONCRETE-ENCASED ELECTRODE (UFER).
   d. GROUND RING (WHERE APPLICABLE).
   e. GROUND RODS.
   f. PLATE ELECTRODE.
   g. OTHER LISTED SYSTEMS.
2. FOR EXISTING BUILDING - TEST EXISTING RESISTANCE TO EARTH OF THE EXISTING GROUNDING ELECTRODE SYSTEM. PROVIDE ADDITIONAL GROUNDING ELECTRODES AS NECESSARY TO REACH A MINIMUM RESISTANCE TO EARTH OF 5 OHMS. PROVIDE GROUNDING BUS BARS IN ELECTRICAL ROOMS AND TELECOM ROOMS CONNECTED TO THE EXISTING GROUNDING ELECTRODE SYSTEM.

B. MATERIALS
1. SEE SINGLE LINE POWER DIAGRAM FOR GROUNDING CONDUCTOR SIZE. MINIMUM TO BE #2/0 AWG BARE COPPER 30" BELOW GRADE. ABOVE GROUND TO BE GREEN-COLORED INSULATION WITH CONTINUOUS YELLOW STRIP.
2. GROUND BUS - HORIZONTALLY ON INSULATED SPACERS 2" FROM WALL AND 6" AFF. PREDRILLED RECTANGULAR BARS ON ANNEALED COPPER, 1/4" X 4" IN CROSS SECTION AND LENGTH AS NEEDED. CONNECTORS TO BE MECHANICAL, CAST SILICON BRONZE, SOLDERLESS COMPRESSION-TYPE, LONG-BARREL WITH TWO-BOLT CONNECTION TO BUS BAR.
3. TERMINATIONS:
   a. PIPE AND EQUIPMENT - BOLTED CONNECTORS.
   b. UNDERGROUND CONNECTIONS - EXOTHERMIC WELD.
   c. STRUCTURAL STEEL - WELDED CONNECTORS.

2.3 RACEWAYS AND BOXES

A. CONDUIT
1. ELECTRICAL METALLIC TUBING (EMT): ZINC COATED GALVANIZED THIN-WALL STEEL TUBING. ANSI C80.3 AND UL 797.
2. RIGID METAL CONDUIT (RMC): HEAVY WALL, ZINC COATED GALVANIZED STEEL. ANSI C80.1 AND UL 65.
3. INTERMEDIATE METAL CONDUIT (IMC): HOT-DIPPED GALVANIZED STEEL WITH A COUPLING AND END-THREAD PROTECTOR FOR EACH SECTION. ANSI C80.6 AND UL 1242 WITH AN INTERIOR COATING OF SILICON EPOXY ESTER LUBRICANT.
4. FLEXIBLE METAL CONDUIT (FMC): HOT-DIPPED GALVANIZED STEEL STRIP CORE WITH INTEGRAL COPPER GROUND WIRE AND UL 1.
5. LIQUID-TIGHT FLEXIBLE METAL CONDUIT (LFMC): HOT-DIPPED GALVANIZED STEEL STRIP CORE WITH EXTRUDED POLYVINYL JACKET, SUN-LIGHT-RESISTANT AND NON-WRINKLING WITH INTEGRAL COPPER GROUND WIRE AND UL 360 AND SUITABLE FOR 90°C CONDUCTORS.
6. RIGID NONMETALLIC CONDUIT (RNC): SCHEDULE 40 POLYVINYLCHLORIDE (PVC), NEMA TC 2 AND UL 651. PROVIDE SCHEDULE 80 WHERE NOTED. SWITCH TO IMC OR RMC WHERE CONDUIT TURNS UP INTO BUILDING.
7. MINIMUM RACEWAY SIZE TO BE 3/4"C.

B. CONDUIT FITTINGS
1. RIGID CONDUIT TO HAVE THREADED FITTINGS.
2. EMT TO HAVE COMPRESSION TYPE FITTINGS.
3. METAL FITTINGS TO COMPLY WITH NEMA FB 1 AND UL 514B.
4. NONMETALLIC FITTINGS TO COMPLY WITH NEMA TC 3. MATCH TO CONDUIT OR TUBING TYPE AND MATERIAL.

C. WIREWAYS
1. SHEET METAL COMPLYING WITH UL 870 AND NEMA 250. PROVIDE NEMA 1, 3R, OR 4 AS NOTED. SIZED AS NOTED, BUT MUST MEET MINIMUM FILL AND BENDING RADIUSES PER NEC WITH HINGED-TYPE COVERS.

D. BOXES, ENCLOSURES AND CABINETS
1. RATED FOR ENVIRONMENT.
2. SHEET METAL OUTLET AND DEVICE BOXES: COMPLY WITH NEMA 0S 1 AND UL 514A.
3. CAST-METAL OUTLET AND DEVICE BOXES: COMPLY WITH NEMA FB1, ALUMINUM, TYPE FD, WITH GASKETED COVER.
4. FLOOR BOXES EQUAL TO WIREMOLD EVOLUTION SERIES FOR POKE-THRU AND IN-GRADE TYPES. MINIMUM OF TWO DUPLEX OUTLETS AND DATA OUTLETS WHERE SHOWN.
5. ALL CEILING LUMINAIRE AND FAN OUTLET BOXES TO BE NONADJUSTABLE. LUMINAIRE BOXES RATED TO 50 LB AND LUMINAIRES WEIGHTING MORE THAN 50 LB SHALL BE LISTED AND MARKED FOR THE MAXIMUM ALLOWABLE WEIGHT. PADDLE FAN OUTLET BOXES MINIMUM 70 LB RATING.
6. CABINETS TO BE NEMA 250. PROVIDE NEMA 1, 3R, OR 4 AS NOTED. GALVANIZED-STEEL BOX WITH REMOVABLE INTERIOR PANEL AND REMOVABLE FRONT. HINGED DOOR IN FRONT COVER WITH FLUSH LATCH AND CONCEALED HINGE. KEYED TO MATCH PANELBOARDS.
7. JUNCTION AND PULL BOXES: CODE-GAUGE GALVANIZED STEEL WITH GALVANIZED STEEL COVERS. PULL-BOXES INSTALLED ON THE EXTERIOR OR IN WET LOCATIONS SHALL BE WEATHERPROOF IN ACCORDANCE WITH NEMA 250.
8. LOCKNUTS TO BE ZINC-PLATED OR CADMIUM-PLATED MALLEABLE IRON.

2.4 WIRING DEVICES AND OUTLETS

A. SPECIFICATION GRADE.

B. SWITCHES: 20A, 120-277V RATING.

C. RECEPTACLES: 20A, 125V, 3-WIRE, DUPLEX GROUNDING. PROVIDE GFCI, AFCI, AND TAMPER-PROOF RECEPTACLES WHERE REQUIRED BY NEC. GFCI-RATED RECEPTACLES REQUIRED IN KITCHENS, BARS, RESTROOMS, EXTERIOR, AS WELL AS OTHER AREAS. TAMPER-PROOF RECEPTACLES ARE NOW REQUIRED IN COMMON AREAS.

D. COVER PLATES: STAINLESS STEEL IN KITCHENS, CAST-ALUMINUM IN EXTERIOR LOCATIONS AND SMOOTH, HIGH-IMPACT THERMOPLASTIC IN INTERIOR SPACES UNLESS OTHERWISE NOTED.
1. ALL STAINLESS STEEL COVERPLATES TO BE ETCHED WITH CIRCUIT IDENTIFICATIONS. THERMOPLASTIC PLATES TO BE PROVIDED WITH IDENTIFICATION STICKERS.

E. OUTLET BOX CONNECTIONS:
1. BUSHINGS: HIGH IMPACT, THERMOSETTING PHENOLIC-INSULATED, RATED AT 150°C.
2. THREADED NIPPLES: CONDUIT NIPPLES WITH TWO SETS OF THREADS.
3. PLASTIC ELECTRICAL TAPE RATED AT 600V; 3M #35+ OR EQUAL.

2.5 PANELBOARDS

A. DISTRIBUTION PANELBOARDS:
1. BASIS OF DESIGN TO BE SQUARE D 'I-LINE' SERIES. ALL PANELBOARDS TO BE OF THE SAME MANUFACTURER.
2. NEMA-RATING AS SHOWN ON PANEL SCHEDULES.
3. SINGLE-PHASE, 3-WIRE, SOLID NEUTRAL DESIGN WITH SEQUENCE BUSSING, FULL CAPACITY NEUTRAL AND SEPARATE GROUND BUS.
4. MAIN CIRCUIT BREAKER (MCB) OR MAIN LUGS ONLY (MLO) AS NOTED ON PANEL SCHEDULES.
5. PROVIDE TYPEWRITTEN PANEL SCHEDULE IN INSIDE OF DOOR.
6. CABINET TO HAVE DOOR-IN-DOOR STYLE FRONT COVER.
7. COPPER BUSSING, FULLY RATED TO A.I.C. RATING SHOWN ON PANEL SCHEDULE. MINIMUM OF 22 KAIC.
8. CIRCUIT BREAKER TO BE BOLT-ON TYPE. QUICK-MAKE, QUICK-BREAK WITH SEPARATE TRIP POSITION.
9. NO 20A/1P TANDEM CIRCUIT BREAKERS ALLOWED. EACH CIRCUIT TO HAVE A DEDICATED NEUTRAL.
10. PROVIDE PREPARED SPACES AND SPARES AS SHOWN ON PANEL SCHEDULES.
11. PROVIDE 60A/2P CIRCUIT BREAKER FOR EXTERNAL SURGE PROTECTIVE DEVICE (SPD).

B. BRANCH PANELBOARDS:
1. BASIS OF DESIGN TO BE SQUARE D 'NQ' AND 'NF' SERIES DEPENDING ON VOLTAGE. ALL PANELBOARDS TO BE OF THE SAME MANUFACTURER.
2. NEMA-RATING AS SHOWN ON PANEL SCHEDULES.
3. SINGLE-PHASE, 3-WIRE, SOLID NEUTRAL DESIGN WITH SEQUENCE BUSSING, FULL CAPACITY NEUTRAL AND SEPARATE GROUND BUS.
4. MAIN CIRCUIT BREAKER (MCB) OR MAIN LUGS ONLY (MLO) AS NOTED ON PANEL SCHEDULES.
5. PROVIDE TYPEWRITTEN PANEL SCHEDULE IN INSIDE OF DOOR.
6. CABINET TO HAVE DOOR-IN-DOOR STYLE FRONT COVER.
7. COPPER BUSSING, FULLY RATED TO A.I.C. RATING SHOWN ON PANEL SCHEDULE. MINIMUM OF 22 KAIC.
8. CIRCUIT BREAKER TO BE BOLT-ON TYPE. QUICK-MAKE, QUICK-BREAK WITH SEPARATE TRIP POSITION.
9. NO 20A/1P TANDEM CIRCUIT BREAKERS ALLOWED. EACH CIRCUIT TO HAVE A DEDICATED NEUTRAL.
10. ALL SPACES NOT DESIGNATED WITH A CIRCUIT AND LOAD TO BE PROVIDED WITH SPARE 20A/1P CIRCUIT BREAKERS.

2.6 SAFETY SWITCH / DISCONNECTS

A. DISCONNECTS TO BE OF THE SAME MANUFACTURER AS THE PANELBOARDS.

B. HEAVY-DUTY RATED WITH QUICK-MAKE, QUICK-BREAK AND HORSEPOWER RATED.

C. FUSED AND NON-FUSED DISCONNECTS AS SHOWN ON DRAWINGS. FUSES TO BE RK-5.

2.7 LOW-VOLTAGE DRY-TYPE TRANSFORMERS

A. PRIMARY AND SECONDARY RATING OF 600V AND LESS, WITH CAPACITIES UP TO 300 kVA.

B. MANUFACTURER TO BE THE SAME AS THE PANELBOARDS.

C. QUALIFICATIONS:
1. LISTED AND LABELED AS DEFINED IN NFPA 70 BY QUALIFIED TESTING AGENCY AND MARKED FOR INTENDED LOCATION AND USE.
2. COMPLY WITH 10 CFR 431 (DOE 2016) EFFICIENCY LEVELS AND MARKED AS COMPLIANT BY AN NRTL.

D. MATERIALS
1. CORES: ELECTRICAL GRADE, NON-AGING SILICON STEEL WITH HIGH PERMEABILITY AND LOW HYSTERESIS LOSSES.
   a. ONE LEG PER PHASE,
   b. CORE VOLUME SHALL ALLOW EFFICIENT TRANSFORMER OPERATION AT 10 PERCENT ABOVE THE NOMINAL TAP VOLTAGE.
   c. GROUNDED TO ENCLOSURE. SEE GROUNDING DETAIL FOR SEPARATELY DERIVED GROUNDING SYSTEM.
2. COILS: CONTINUOUS WINDINGS WITHOUT SPLICES EXCEPT FOR TAPS.
   a. COIL MATERIAL: COPPER.
   b. INTERNAL COIL CONNECTIONS: BRAZED OR PRESSURE-TYPE.
3. ENCLOSURE: VENTILATED. COMPLY WITH NEMA 250.
4. TAPS: TWO 2.5% TAPS ABOVE AND TWO 2.5% TAPS BELOW NORMAL FULL CAPACITY.
5. INSULATION CLASS: 220°C, UL-COMPONENT-RECOGNIZED INSULATION SYSTEM WITH A MAXIMUM OF 150°C RISE ABOVE 40°C AMBIENT TEMPERATURE.
6. PROVIDE GROUND-BAR KIT OR A GROUND-BAR INSTALLED ON THE INSIDE OF THE TRANSFORMER ENCLOSURE.
7. ELECTROSTATIC SHIELDING: EACH WINDING SHALL HAVE AN INDEPENDENT, SINGLE, FULL-WIDTH COPPER ELECTROSTATIC SHIELD ARRANGED TO MINIMIZE INTERWINDING CAPACITY.
8. LOW-SOUND-LEVEL REQUIREMENTS: MAXIMUM SOUND LEVELS WHEN FACTORY-TESTED ACCORDING TO IEEE C57.12.91.
9. PROVIDE ENGRAVED, LAMINATED-ACRYLIC OR MELAMINE PLASTIC SIGNS FOR EACH PIECE OF EQUIPMENT, MOUNTED WITH CORROSION-RESISTANT SCREWS.

2.8 LOW-VOLTAGE EXTERNAL SURGE PROTECTIVE DEVICES

A. TYPE 1 SURGE PROTECTIVE DEVICES (SPD):
1. LISTED AND LABELED BY AN NRTL ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION AS COMPLYING WITH UL 1449, TYPE 1.
2. OPTIONS TO INCLUDE:
   a. INTEGRAL DISCONNECT SWITCH.
   b. INTERNAL THERMAL PROTECTION THAT DISCONNECTS THE SPD BEFORE DAMAGING INTERNAL SUPPRESSOR COMPONENTS.
   c. LED INDICATOR LIGHTING DISPLAY FOR PROTECTION STATUS.
   d. AUDIBLE ALARM.
   e. NEMA ICS 5, DRY FORM C CONTACTS RATED AT 2A AND 24V AC FOR REMOTE MONITORING OF PROTECTION STATUS.
   f. SURGE COUNTER.
3. PERFORMANCE CRITERIA:
   a. MCOV: NOT LESS THAN 125% OF NOMINAL SYSTEM VOLTAGE FOR 208Y-240/120V, AND NOT LESS THAN 115% OF NOMINAL SYSTEM VOLTAGE FOR 480Y/277V.
   b. PEAK SURGE CURRENT RATING: MINIMUM SINGLE-PULSE SURGE CURRENT WITHSTAND RATING PER PHASE MUST NOT BE LESS THAN 200 kA. PEAK SURGE CURRENT RATING MUST BE ARITHMETIC SUM OF THE RATINGS OF INDIVIDUAL MOVs IN A GIVEN MODE.
   c. PROTECTION MODES AND UL 1449 VPR FOR GROUNDED WYE CIRCUITS WITH 480Y/277V OR 208Y/120V, THREE-PHASE, FOUR-WIRE CIRCUITS MUST NOT EXCEED THE FOLLOWING:
      LINE TO NEUTRAL: 1200V FOR 480Y/277V AND 700V FOR 208Y/120V.
      LINE TO LINE: 2000V FOR 480Y/277V AND 1200V FOR 208Y/120V.
4. SCCR: NOT LESS THAN 200 kA.
5. NOMINAL RATING: 20 kA.

B. TYPE 2 SURGE PROTECTIVE DEVICES (SPDs)
1. LISTED AND LABELED BY AN NRTL ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION AS COMPLYING WITH UL 1449, TYPE 2. COMPLY WITH UL 1283.
2. OPTIONS TO INCLUDE:
   a. LED INDICATOR LIGHTING DISPLAY FOR PROTECTION STATUS.
   b. INTERNAL THERMAL PROTECTION THAT DISCONNECTS THE SPD BEFORE DAMAGING INTERNAL SUPPRESSOR COMPONENTS.
   c. NEMA ICS 5, DRY FORM C CONTACTS RATED AT 2A AND 24V AC FOR REMOTE MONITORING OF PROTECTION STATUS.
   d. SURGE COUNTER.
3. PERFORMANCE CRITERIA:
   a. MCOV: NOT LESS THAN 125% OF NOMINAL SYSTEM VOLTAGE FOR 208Y/120V, AND NOT LESS THAN 115% OF NOMINAL SYSTEM VOLTAGE FOR 480Y/277V.
   b. PEAK SURGE CURRENT RATING: MINIMUM SINGLE-PULSE SURGE CURRENT WITHSTAND RATING PER PHASE MUST NOT BE LESS THAN 100 kA. PEAK SURGE CURRENT RATING MUST BE ARITHMETIC SUM OF THE RATINGS OF INDIVIDUAL MOVs IN A GIVEN MODE.
   c. PROTECTION MODES AND UL 1449 VPR FOR GROUNDED WYE CIRCUITS WITH 480Y/277V OR 208Y/120V, THREE-PHASE, FOUR-WIRE CIRCUITS MUST NOT EXCEED THE FOLLOWING:
      LINE TO NEUTRAL: 1200V FOR 480Y/277V AND 700V FOR 208Y/120V.
      LINE TO GROUND: 1200V FOR 480Y/277V AND 700V FOR 208Y/120V.
      NEUTRAL TO GROUND: 1200V FOR 480Y/277V AND 700V FOR 208Y/120V.
      LINE TO LINE: 2000V FOR 480Y/277V AND 1200V FOR 208Y/120V.
4. SCCR: EQUAL OR EXCEED 100 kA.
5. NOMINAL RATING: 20 kA.

PART 3 - EXECUTION

3.1 WIRING

A. DO NOT PULL CONDUCTORS UNTIL THE RACEWAY SYSTEM HAS BEEN COMPLETELY INSTALLED. INSTALL CONDUCTORS AT ONE TIME, USING ONLY LUBRICANTS APPROVED FOR THIS PURPOSE. FOR WIRE SIZES #12 THROUGH #10, PRE-INSULATED, TWIST-ON CONNECTORS MAY BE USED TO SPLICE WIRE. USE COMPRESSION CONNECTORS FOR SPLICES OF STRANDED CONDUCTORS. USE RING-TONGUE TYPE CONNECTORS FOR CONTROL WIRING.

B. ALL WIRING SHALL BE COLOR-CODED IN ACCORDANCE WITH THE NEC. SPLICES SHALL OCCUR ONLY WITHIN OUTLET BOXES. ENDS OF POWER WIRING SHALL BE MARKED WITH A 1 INCH BAND OF COLOR CODED TAPE. INSTALL A GREEN GROUNDING CONDUCTOR FOR ALL SYSTEMS.

C. PHASING SHALL BE MAINTAINED CONSISTENT THROUGHOUT THE DISTRIBUTION SYSTEM.

D. WIRING CONNECTIONS MADE WITHOUT TWIST-ON CONNECTORS SHALL BE WRAPPED WITH THREE LAYERS OF PLASTIC TAPE. EACH LAP SHALL EXTEND OVER THE PREVIOUS LAYER BY 1/2 THE TAPE DIMENSION.

E. THE ELECTRICAL DISTRIBUTION SYSTEM SHALL MATCH THE EXISTING SYSTEM. PHASING OF THE SYSTEM THROUGHOUT THE DISTRIBUTION SYSTEM SHALL BE A/B/C IN A CLOCKWISE ROTATION. SAFETY SWITCHES AND POWER RECEPTACLES SHALL HAVE THE SAME PHASE ARRANGEMENT THROUGHOUT THE SYSTEM.

3.2 WIRING DEVICE BOXES

A. PROVIDE AN OUTLET BOX FOR EACH WIRING DEVICE AND LIGHT FIXTURE AND AS REQUIRED BY THE NEC. DEVICE BOXES SHALL BE LOCATED AS INDICATED ON THE DRAWINGS. LOCATIONS ARE APPROXIMATE ONLY AND SHALL BE LOCATED IN THE FIELD TO CONFORM TO FIELD CONDITIONS. IN CASE OF CONFLICTS OR UNUSUAL CONDITIONS, NOTIFY OWNER FOR INSTRUCTIONS. BOXES SHALL BE SECURED FIRMLY IN POSITION USING PROPER ANCHORING DEVICES.

B. WHERE MULTIPLE SWITCHES OR RECEPTACLES ARE NOTED IN A COMMON LOCATION, PROVIDE MULTIPLE GANG BOXES. BOXES SHALL BE MOUNTED TRUE AND LEVEL.

3.3 WIRING DEVICES

A. SWITCHES SHALL BE QUIET-TYPE, RATED 20 AMPERES, 120 VOLTS AC ONLY. SWITCHES SHALL BE FLUSH TYPE AND BE CAPABLE OF BACK AND SIDE WIRING. THE BRIDGE MOUNTING STRAP SHALL BE OF ONE-PIECE CONSTRUCTION WITH ASSURED GROUNDING MEANS IN ACCORDANCE WITH NEC ARTICLE 250-74, EXCEPTION NO. 2 LIGHT SWITCHES SHALL BE MANUFACTURED BY HUBBELL, ARROW HART, IDEAL, OR PASS & SEYMOUR.

B. DUPLEX RECEPTACLES SHALL BE SPECIFICATIONS GRADE, GROUNDING TYPE, 20 AMP, 125 VOLT WITH BRASS TERMINAL SCREWS, COLOR CODED AND EQUAL TO HUBBELL 5362.

3.4 JUNCTION AND PULL BOXES

A. UNLESS NOTED, PROVIDE JUNCTION AND PULL BOXES IN ACCORDANCE WITH THE NEC REQUIREMENTS, OR WHERE NEEDED BY JOB CONDITIONS. PROVIDE SEPARATE BOXES FOR ELECTRICAL POWER AND CONTROL OR COMMUNICATIONS CIRCUITS.

3.5 CONDUIT

A. CONDUITS SHALL BE SIZED IN ACCORDANCE WITH THE NEC FOR NUMBER AND SIZE OF WIRES INSTALLED. MINIMUM CONDUIT SIZE SHALL BE 3/4".

B. CONDUITS SHALL BE RUN PARALLEL TO THE LINES OF THE BUILDING AT ELEVATIONS IN TRUSS. CONDUIT LOCATIONS SHALL BE COORDINATED AND INSTALLED IN A MANNER TO AVOID CONFLICTS WITH OTHER TRADES. CONDUIT SHALL BE SECURELY ANCHORED OR SUPPORTED FROM THE STRUCTURE IN A MANNER TO PREVENT DISPLACEMENT. WHERE POSSIBLE, INSTALL RUNS OF CONDUIT IN PARALLEL LINES, SUPPORTED FROM COMMON TRAPEZE HANGERS.

C. INSTALLATION OF CONDUIT SHALL BE IN ACCORDANCE WITH BUILDING CODE REQUIREMENTS AND ACCEPTED PRACTICE. CONDUITS SHALL BE MECHANICALLY-TIGHT AND ELECTRICALLY-CONTINUOUS. CUT ENDS OF CONDUIT EVENLY WITH AN ELECTRICAL SAW. REAM ENDS OF CONDUIT TO REMOVE BURRS AND SWAB INSIDE OF TUBING BEFORE PULLING CONDUCTORS. BENDS SHALL BE MADE WITH PROPER BENDING TOOLS TO THE RADIUS REQUIRED BY THE NEC. PROVIDE GROUNDING FOR CONDUIT AND FITTINGS .

D. CONDUITS SHALL BE CONNECTED TO ELECTRICAL BOXES USING DOUBLE LOCKNUT CONSTRUCTION AND APPROVED BUSHINGS, EXCEPT AT F/S BOXES.

3.6 DISCONNECTS

A. INSTALL DISCONNECTS AS REQUIRED BY NEC, UNLESS OTHERWISE NOTED.

3.7 GROUNDING

A. GROUNDING SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC. ALL EQUIPMENT SHALL BE GROUNDED, INCLUDING MOTORS, RACEWAYS, PANELS, CABINETS AND ELECTRICAL EQUIPMENT.

3.8 LIGHT FIXTURES

A. INSTALL LIGHT FIXTURES COMPLETE WITH BALLASTS AND LAMPS.

3.9 CLEAN AND ADJUST

A. REMOVE SHIPPING LABELS, DIRT, PAINT, GREASE, AND STAINS FROM EQUIPMENT. REMOVE DEBRIS AS IT ACCUMULATES. UPON COMPLETION OF WORK, CLEAN ELECTRICAL EQUIPMENT AND THE ENTIRE ELECTRICAL INSTALLATION SO THAT IT IS SUITABLE FOR THE OWNER'S USE.

26500 LIGHTING AND LIGHTING CONTROLS

1.0 GENERAL

A. PROVIDE AND INSTALL A COMPLETE LIGHTING SYSTEM INCLUDING ALL LIGHTING FIXTURES, LAMPS, BALLASTS, DRIVERS AND ACCESSORIES AND LIGHTING CONTROL SWITCHES AND SYSTEMS.

B. REFER TO THE LIGHTING FIXTURE SCHEDULE ON THE CONSTRUCTION DRAWINGS FOR MANUFACTURER AND SPECIFICATIONS. NO SUBSTITUTIONS ALLOWED.

C. ALL QUANTITIES OF LIGHTING FIXTURES ARE THE RESPONSIBILITY OF THE CONTRACTOR AND THE ENGINEER DOES NOT VERIFY COUNTS IN SUBMITTAL REVIEW.

D. PROVIDE SUBMITTALS FOR ALL LIGHTING FIXTURES SPECIFIED.

E. BASIS OF DESIGN WILL BE ALL 'LED' TYPE LIGHTING FIXTURES.

1.1 QUALITY ASSURANCE

A. UL LISTED LIGHTING FIXTURES FOR THE TYPE AND USE OF THE FIXTURE.

2.0 PRODUCTS

A. AS SPECIFIED IN LIGHTING FIXTURE SCHEDULE.

B. ALL EMERGENCY FIXTURES SPECIFIED TO HAVE A 10 YEAR BATTERY WARRANTY.

C. EMERGENCY BATTERIES TO BE NICAD TYPE WITH UL TRANSFER UPON LOSS OF POWER.

3.0 EXECUTION

A. PROVIDE LIGHTING FIXTURES, AS INDICATED ON THE DRAWINGS. IF A FIXTURE IS NOT DESIGNATED ON THE DRAWINGS, VERIFY THE FIXTURE SELECTION WITH THE ENGINEER BEFORE INSTALLATION.

B. CLEAN AND ADJUST IMMEDIATELY BEFORE FINAL INSPECTION, CLEAN ALL FIXTURES, INSIDE AND OUT. REPLACE BROKEN OR DAMAGED PARTS. LAMP AND TEST ALL FIXTURES FOR ELECTRICAL, AS WELL AS MECHANICAL OPERATION.

COMMISSIONING

A. PER THE REQUIREMENTS OF THE IECC SECTION C408, THE OWNER OR CONTRACTOR SHALL HAVE A COMMISSIONING PLAN DEVELOPED BY A REGISTERED DESIGN PROFESSIONAL OR APPROVED AGENCY RESPONSIBLE FOR THE TESTING AND/OR CALIBRATION OF THE BUILDING SYSTEMS DEFINED IN THIS SECTION.

B. PRIOR TO FINAL INSPECTION, THE REGISTERED DESIGN PROFESSIONAL SHALL PROVIDE EVIDENCE THAT THE LIGHTING CONTROL SYSTEMS HAVE BEEN TESTED TO ENSURE THAT CONTROL HARDWARE NAD SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND THE MANUFACTURER'S INSTRUCTIONS. FUNCTIONAL TESTING SHALL BE IN ACCORDANCE WITH SECTIONS C408.3.1.1 THROUGH C408.3.1.3 FOR THE APPLICABLE CONTROL TYPE.

C. A FULL REPORT OF TEST RESULTS SHALL BE PROVIDED TO THE OWNER ALONG WITH MANUALS AND AS-BUILT CONSTRUCTION DOCUMENTS OF THESE SYSTEMS.

ELECTRICAL LEGEND

RECEPTACLES

⊖	DUPLEX RECEPTACLE
⊕	QUADPLEX RECEPTACLE
⊜	250 VOLT RECEPTACLE PER UNIT REQUIREMENTS
◒	ABOVE-COUNTER RECEPTACLE
◀	SPECIAL-RATED RECEPTACLE
◐	G.F.I. CONTROLLED RECEPTACLE
⊖	HALF-SWITCHED DUPLEX RECEPTACLE
⊙	FLOOR-MOUNTED DUPLEX
⊙	FLOOR-MOUNTED QUADPLEX
○⊢○	CEILING OR WALL-MOUNTED FIXTURES

LIGHTING CONTROL DEVICES

$	SINGLE-WAY SWITCH
$3	THREE-WAY SWITCH
$OS	OCCUPANCY-SENSING SWITCH DUAL-TECHNOLOGY
$M	MOTOR-RATED SWITCH
$D	DIMMER ON/OFF SWITCH
$T	THERMAL-OVERLOAD SWITCH
$V	VACANCY-SENSING SWITCH DUAL-TECHNOLOGY
OS	CEILING-OCCUPANCY SENSOR DUAL-TECHNOLOGY
PC	PHOTOCELL
T/C	TIMECLOCK
PP	POWER PACK

ELECTRICAL WIRING

⌒	LOW VOLTAGE WIRING REFER TO PLANS FOR ROUTING
XX-##	"XX" = PANEL DESIGNATION "##" = BRANCH CIRCUIT NUMBER
⌒	CIRCUIT HOME RUN
⌒	CIRCUIT CONTINUATION
⌒	CONDUIT BELOW-FLOOR/ UNDERGROUND

POWER DEVICES

J	JUNCTION BOX REFER TO SPECIFICATION 260533
☐	DISCONNECT SAFETY SWITCH REFER TO SPECIFICATION 262816
☒	DISCONNECT/MOTOR STARTER REFER TO SPECIFICATION 262913
☒	MOTOR STARTER REFER TO SPECIFICATION 262913
VFD	VARIABLE FREQUENCY DRIVE REFER TO SPECIFICATION 262923
PB	IN-GROUND PULL BOX REFER TO SPECIFICATION 262923
⊘	MOTOR REFER TO PLANS FOR RATING
SPD	SURGE PROTECTIVE DEVICE REFER TO SPECIFICATION 264313

PANELBOARDS / TRANSFORMERS

◣	PANELBOARD REFER TO SPECIFICATION 262416
◣	SWITCHBOARD REFER TO SPECIFICATION 262413
T	TRANSFORMER REFER TO SPECIFICATION 262200

TECHNOLOGY

JB	TELEPHONE DATA SYSTEM OUTLET 4" SQUARE BOX AND COVERPLATE, 3/4"C TO CEILING SPACE UNLESS DIRECTED OTHERWISE.
▽	TELEVISION OUTLET PLASTER RING AT +18" A.F.F. HUBBELL COVERPLATE 3 /4"C. TO CEILING SPACE UNLESS SHOWN WITH HOMERUNS.
▼	FLOOR DATA OUTLET
▽▼	FLOOR COMBINATION OUTLET
⊙▽▼	POWER/PHONE/DATA FLUSH FLOOR OUTLET
⊡	WALL COAXIAL CABLE OUTLET

FIRE ALARM

FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR
S	SMOKE DETECTOR
H	HEAT DETECTOR
☒◁	WALL/CEILING SPEAKER/STROBE
☒ ◎	WALL/CEILING VISUAL STROBE
P	MANUAL PULL STATION

ABBREVIATIONS

A	AMPERE	NEC	NATIONAL ELECTRICAL CODE
ACT	ABOVE COUNTER TOP	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
AFF	ABOVE FINISHED FLOOR	NF	NON-FUSED
AIC	AMPERE INTERRUPTING CURRENT	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE	NL	NIGHT LIGHT
C	CONDUIT	NTS	NOT TO SCALE
E	EXISTING LIGHT OR DEVICE TO REMAIN	P	POLE
ER	EXISTING LIGHT OR DEVICE TO BE REMOVED OR RELOCATED	PH	PHASE
E.C.	EMPTY CONDUIT WITH PULL-WIRE	R	RELOCATED LIGHT OR DEVICE
E.D.F	ELECTRICAL DRINKING FOUNTAIN	S.E.S	SERVICE ENTRANCE SECTION
GND	GROUND	TYP	TYPICAL
GFI	GROUND FAULT INTERRUPTER	UL	UNDERWRITERS LABORATORIES, INC.
KVA	KILOVOLT-AMPERE	U.N.O.	UNLESS NOTED OTHERWISE
KW	KILOWATT	V	VOLT
MCB	MAIN CIRCUIT BREAKER	VA	VOLT-AMPERE
MLO	MAIN LUGS ONLY	W	WATT
N	NEUTRAL	WP	WEATHER-PROOF
N	NEW LIGHT OR DEVICE	WR	WATER-RESISTANT

REGISTRATION SEAL

SEAL 035265

4/16/25

ROBERT L. QUEATHEM
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www.arcv.com

EST. 1998
SCOOTER'S COFFEE ®

REV	DATE	DESCRIPTION	BY
1			
2			
3			
4			
5			
6			
7			
8			
9			

TITLE:
ELECTRICAL SPECIFICATIONS

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

KIOSK PROTOTYPE:
4.2 REVERSE PROTOTYPE
JUNE 2024
ISSUE DATE:
03/21/2024
PROJECT NO.
240761
DRAWN BY:
BPA
CHECKED BY:
SAH

SHEET NO.
E1.1

PANEL **A (SCOOTER'S COFFEE)** NEW INSTALL **X** FED TOP **X**

VOLTAGE **120/240** **1** PHASE **3** WIRE EXIST LOCATION FED BOTTOM

AMP BUS **400** RELOCATED EXIST MTD FLUSH **X**

AMP MAIN **400** **M.L.O.** A.I.C. RATING 10,000 SURFACE

CKT #	DESCRIPTION	WATTS	LOAD TYPE	WIRE SIZE	BRKR SIZE	POLE	A	B	POLE	BRKR SIZE	WIRE SIZE	LOAD TYPE	WATTS	DESCRIPTION	CKT #	
1	RTU-1	8520	H	2#4,1#8G IN 1"C	80	2	12120		2	30	2#10,1#10G IN 3/4"C	K	3600	3 - HIGH SPEED OVEN	2	5
3	-	8520	H	-	-	-		12120	-	-	-	K	3600	-	4	
5 5	RCPT-BACK OF HOUSE	540	R	2#12,1#12G IN 3/4"C	20	1	4140		2	30	2#10,1#10G IN 3/4"C	K	3600	3 - HIGH SPEED OVEN	6	5
5 7	WATER HEATER	4000	M	2#8,1#8G IN 1"C	50	2		7600	-	-	-	K	3600	-	8	
9	-	4000	M	-	-	-	7600		2	30	2#10,1#10G IN 3/4"C	K	3600	3 - HIGH SPEED OVEN	10	5
1 11	PWR-DUCT SMOKE DETECTOR	100	M	2#12,1#12G IN 3/4"C	20	1		3700	-	-	-	K	3600	-	12	
5 13	2/2A - ICE MAKER+CONDENSER	1572	K	2#12,1#12G IN 3/4"C	20	2	5172		2	30	2#10,1#10G IN 3/4"C	K	3600	9 - ESPRESSO MACHINE	14	5
15	-	1572	K	-	-	-		5172	-	-	-	K	3600	-	16	
5 17	22A/22B - WATER TREATMENT	480	M	2#12,1#12G IN 3/4"C	20	1	4080		2	30	2#10,1#10G IN 3/4"C	K	3600	9 - ESPRESSO MACHINE	18	5
5 19	25 - WATER PUMP	1920	K	2#12,1#12G IN 3/4"C	20	1		5520	-	-	-	K	3600	-	20	
5 21	14B - REACH-IN FREEZER	1440	K	2#12,1#12G IN 3/4"C	20	1	5040		2	30	2#10,1#10G IN 3/4"C	K	3600	9 - ESPRESSO MACHINE	22	5
5 23	13 - U/C/ REFRIGERATOR	540	K	2#12,1#12G IN 3/4"C	20	1		4140	-	-	-	K	3600	-	24	
5 25	13 - U/C/ REFRIGERATOR	540	K	2#12,1#12G IN 3/4"C	20	1	3600		2	40	2#8,1#8G IN 3/4"C	K	3060	6 - COFFEE BREWER	26	5
5 27	30A - DRIVE-THRU MONITOR	360	M	2#12,1#12G IN 3/4"C	20	1		3420	-	-	-	K	3060	-	28	
5 29	14B - REACH-IN FREEZER	1152	K	2#12,1#12G IN 3/4"C	20	1	2472		1	20	2#12,1#12G IN 3/4"C	K	1320	5 - COFFEE GRINDER	30	5
5 31	14B - REACH-IN FREEZER	1152	K	2#12,1#12G IN 3/4"C	20	1		2472	1	20	2#12,1#12G IN 3/4"C	K	1320	5 - COFFEE GRINDER	32	5
5 33	13 - U/C/ REFRIGERATOR	540	K	2#12,1#12G IN 3/4"C	20	1	2340		1	20	2#12,1#12G IN 3/4"C	K	1800	1 - BEVERAGE BLENDER	34	5
1 35	PWR-TIMECLOCK	100	M	2#12,1#12G IN 3/4"C	20	1		1900	1	20	2#12,1#12G IN 3/4"C	K	1800	1 - BEVERAGE BLENDER	36	5
1 37	PWR-SECURITY	1000	M	2#12,1#12G IN 3/4"C	20	1	1420		1	20	2#12,1#12G IN 3/4"C	K	420	11A - DIRECT DRAW DISPENSER	38	5
5 39	8,8A - POS SYSTEM/PRINTER	1800	M	2#12,1#12G IN 3/4"C	20	1		2160	1	20	2#12,1#12G IN 3/4"C	K	360	4A - U/C REFRIGERATOR	40	5
5 41	26 - ZOOM TIMER	300	M	2#12,1#12G IN 3/4"C	20	1	636		1	20	2#12,1#12G IN 3/4"C	K	336	4B - U/C REFRIGERATOR	42	5
5 43	30B - DRIVE-THRU MONITOR	360	M	2#12,1#12G IN 3/4"C	20	1		696	1	20	2#12,1#12G IN 3/4"C	K	336	4B - U/C REFRIGERATOR	44	5
5 45	30A - DRIVE-THRU MONITOR	360	M	2#12,1#12G IN 3/4"C	20	1	720		1	20	2#12,1#12G IN 3/4"C	R	360	RCPT-FRONT COUNTER	46	5
4 47	SIGN-MONUMENT	1000	L	SEE SITE PLAN	20	1		1180	1	20	2#12,1#12G IN 3/4"C	R	180	RCPT-PANEL	48	5
4 49	SIGN-DIRECTIONAL (RESERVED)	1000	L	SEE SITE PLAN	20	1	1720		1	20	2#12,1#12G IN 3/4"C	R	720	RCPT-CENTER AREA	50	5
4 51	RCPT-SHOW WINDOW	360	R	2#12,1#12G IN 3/4"C	20	1		1360	1	20	2#12,1#12G IN 3/4"C	R	1000	RCPT-COMPUTER	52	5
4 53	SIGN-BUILDING	1000	L	2#12,1#12G IN 3/4"C	20	1	1720		1	20	2#12,1#12G IN 3/4"C	R	720	RCPT-RESTROOM/EXTERIOR	54	5
4 55	LTG-SITE	372	L	SEE SITE PLAN	20	1		552	1	20	2#12,1#12G IN 3/4"C	R	180	PWR-RECIRCULATION PUMP	56	4
57	PWR-MENUBOARD/SPEAKER	500	M	SEE SITE PLAN	20	1	680		1	20	2#12,1#12G IN 3/4"C	R	180	RCPT-ROOFTOP	58	5
5 59	RCPT-DATA RACK	1000	R	2#12,1#12G IN 3/4"C	20	1		2000	1	20	2#12,1#12G IN 3/4"C	L	1000	LTG-INTERIOR+EF-1	60	1,4
5 61	RCPT-DESK	360	R	2#12,1#12G IN 3/4"C	20	1	468		1	20	SEE SITE PLAN	L	108	LTG-EXTERIOR WALL	62	4
63	SPARE	-	-	-	20	2		282	1	20	2#12,1#12G IN 3/4"C	L	282	LTG-EXTERIOR STRIP	64	4
65	SPARE	-	-	-	-	-	500		1	20	SEE SITE PLAN	L	500	LTG-MENUBOARD	66	4
67	SPARE	-	-	-	20	1		0	1	20	-	-	-	SPARE	68	
69	SPD (TVSS)	0	-	2#10,1#10G IN 3/4"C	30	2	0		1	20	-	-	-	SPARE	70	
71	-	0	-	-	-	-		0	1	20	-	-	-	SPARE	72	

54428	54274	=	108702 CONNECTED WATTS
	-77	77	
	0.3%	BAL.	

PHASE DIFF.

L=	LIGHTING/SIGNS	5262	125% =	6578
R=	RECEPTACLES	5600	100% =	5600
M=	MISC	13360	100% =	13360
H=	HVAC	17040	100% =	17040
K=	KITCHEN	67440	65% =	43836
	LARGEST MOTOR	1280	25% =	320
	DEMAND WATTS		86734	= 361.4 DEMAND AMPS

PANEL SCHEDULE KEYED NOTES

1 PROVIDE LOCK-ON BREAKER
2 PROVIDE EQUIPMENT GROUND FAULT PROTECTION PER N.E.C. ARTICLE 427.22
3 PROVIDE LOCKOUT/TAGOUT CIRCUIT BREAKER DEVICE
4 CIRCUIT VIA LIGHTING CONTROL. SEE LTG CONTROL
5 PROVIDE G.F.C.I. BREAKER IN PANEL

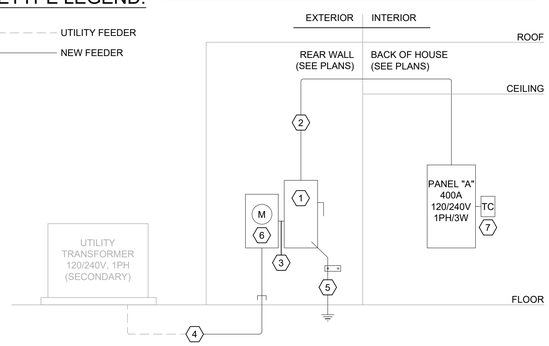
2 PANEL SCHEDULE
SCALE: NONE

NOTES BY SYMBOL: (#)

1. PROVIDE AND INSTALL NEW NEMA-3R SERVICE ENTRANCE MAIN DISCONNECT SWITCH WITH AN MOCP RATED AT 400A 120/240V, SINGLE-PHASE. MOUNT DISCONNECT ABOVE FLOOD PLANE LEVEL.
2. PROVIDE AND INSTALL NEW 2 SETS OF (3) #3/0 THWN, (1) #1/0 GND, 2"C EACH.
3. PROVIDE AND INSTALL NEW 2 SETS OF (3) #3/0 THWN, 2"C EACH.
4. 2 SETS OF (3) #3/0 THWN, 2"C EACH (OR EQUAL, BY CONTRACTOR) TO UTILITY CONNECTION POINT.
5. #1/0 AWG CU GEC BONDED TO GROUND ROD AND #6 AWG CU BONDED TO INTERSYSTEM BONDING BUS. PER NEC TABLE 250.102(C)(1). SEE DETAIL #6/E1.3.
6. PROPOSED UTILITY METER. INSTALL METER AND BASE PER UTILITY COMPANY DIRECTION. SCOPE OF WORK COORDINATED BY UTILITY.
7. PROVIDE TIMECLOCK PER CURRENTLY ADOPTED ENERGY CONSERVATION STANDARDS.

LINETYPE LEGEND:

UTILITY FEEDER
NEW FEEDER



1 ONE-LINE DIAGRAM
SCALE: NONE

ELECTRICAL GENERAL NOTES

1. THESE PLANS ARE SCHEMATIC. DRAWINGS HAVE BEEN CREATED FROM AS-BUILT DOCUMENTS BELONGING TO THE OWNER. THE CONTRACT DOCUMENTS CREATED BY THIS OFFICE ARE DIAGRAMMATIC AND SHOW THE INTENT OF THIS FACILITY TO RENOVATE AND INSTALL NEW EQUIPMENT AND ASSOCIATED MATERIALS. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID
2. ALL ELECTRICAL WORK IS REQUIRED TO BE PERFORMED BY A CERTIFIED ELECTRICAL CONTRACTOR. ALL WIRING, EQUIPMENT, DEVICES AND INSTALLATIONS SHALL CONFORM TO ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES.
3. PROVIDE ALL WIRING, CONDUIT, LABOR, AND MATERIALS NOT SHOWN ON PLAN, BUT NECESSARY FOR COMPLETE AND PROPER OPERATION OF THE ELECTRICAL SYSTEM.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES AND PERMITS AS NECESSARY TO COMPLETE THIS JOB. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO ENSURE A COMPLETE WORKING SYSTEM.
5. ALL ELECTRICAL WORK MUST COMPLY WITH THE REQUIREMENTS OF NFPA 70 (NATIONAL ELECTRICAL CODE), NFPA 70B, NFPA 70E, IECC, OSHA IN ADDITION TO OTHER REFERENCES REQUIRED BY CONTRACT.
6. INSTALLATION OF SWITCHES, OUTLETS, AND CONTROL DEVICES SHALL COMPLY WITH LOCAL CODES AND STATE ADA REQUIREMENTS.
7. REFER TO MECHANICAL AND PLUMBING SHEETS FOR EXACT LOCATION OF ALL MECHANICAL AND PLUMBING EQUIPMENT. PROVIDE ALL LABOR AND MATERIALS REQUIRED TO CONNECT ELECTRICAL POWER TO ALL MECHANICAL AND PLUMBING EQUIPMENT.
8. ALL ELECTRICAL EQUIPMENT, DEVICES, AND CIRCUITS SHALL CONTAIN A GROUNDING CONDUCTOR. CONDUIT SYSTEM SHALL NOT BE USED AS GROUNDING NETWORK. ALL GROUNDING SHALL BE IN STRICT COMPLIANCE WITH ARTICLE 250 OF THE NEC.
9. COORDINATE LOCATION AND VERIFY REQUIREMENTS OF ALL EXTERIOR UTILITY EQUIPMENT AND METER BASE WITH OWNER AND UTILITY COMPANY.
10. TRANSFORMER PAD, TRENCH REQUIREMENTS, AND INTERMEDIATE BOX SHALL BE IN ACCORDANCE WITH THE UTILITY COMPANY SPECIFICATIONS. COORDINATE WITH THE UTILITY COMPANY. PROVIDE AND INSTALL ALL MATERIAL AND EQUIPMENT AS REQUIRED FOR A COMPLETE JOB INSTALLATION.
11. ALL SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, DISCONNECT SWITCHES, AND OTHER ELECTRICAL DEVICES AND EQUIPMENT SHALL HAVE ENGRAVED NAMEPLATES INDICATING EQUIPMENT IDENTIFICATION TAG AND VOLTAGE, AS WELL AS WHERE DEVICE IS FED FROM. ALL SWITCHBOARDS AND PANELBOARDS SHALL HAVE TYPED DIRECTORIES INDICATING DISTRIBUTION AND BRANCH CIRCUIT FEEDERS.
12. CONTRACTOR IS RESPONSIBLE FOR NEC REQUIRED CLEARANCES AROUND AND ABOVE ALL ELECTRICAL EQUIPMENT AND DEVICES.
13. SHORT CIRCUIT AMPERE INTERRUPTING CAPACITY (AIC) RATING OF ALL ELECTRICAL PRODUCTS SHALL BE GREATER THAN THE MAXIMUM AVAILABLE SHORT CIRCUIT CURRENT.
14. PROVIDE AT LEAST ONE SPARE CONDUIT (MINIMUM 2") FOR ALL RECESSED PANELS INTO THE SPACE ABOVE AND BELOW THE CEILING AND FLOOR FOR THE REMAINING CIRCUITS AVAILABLE IN THE PANEL.
15. DO NOT RUN RACEWAYS ON BUILDING EXTERIOR WALLS.
16. WIRE AND CONDUIT SIZES SHALL BE INSTALLED AND SIZED TO COMPENSATE FOR VOLTAGE DROP PER THE NEC.
17. FLEXIBLE CONDUIT MAY BE USED ONLY FOR FINAL CONNECTION TO EQUIPMENT (MAXIMUM LENGTH 6'-0").
18. ANY LOOSE FLEXIBLE CONDUIT TO BE STRAPPED DOWN IN A PROFESSIONAL MANNER.
19. ALL ELECTRICAL WIRING, VOICE/COMMUNICATION WIRING, AND COAXIAL CABLES SHALL BE INSTALLED IN CONDUIT, WIREWAY, OR OTHER PROTECTIVE COVER AS REQUIRED TO COMPLY WITH THE GOVERNING CODE.
20. WALL RECEPTACLE CONDUIT SHALL RUN VERTICALLY TO JUNCTION BOX ABOVE CEILING AND NOT HORIZONTALLY THROUGH STUD WALLS, IN ORDER TO FACILITATE FUTURE ACCESS.
21. CONDUCTORS IN UN-INSULATED CEILING SPACE AND OUTDOORS SHALL BE DE-RATED USING A 122 DEGREE (FAHRENHEIT) TEMPERATURE. CONTRACTOR IS RESPONSIBLE FOR REVISING CONDUCTOR SIZES BASED ON CONDUIT RATING.
22. ALL OUTDOOR EQUIPMENT SHALL BE WEATHER-PROOF, NEMA 3R UNLESS OTHERWISE NOTED.
23. CONTRACTOR SHALL PROVIDE FIRE-PROOFING FOR ANY PIPES OR CONDUITS THAT PENETRATE THROUGH ANY FIRE/SMOKE RATED FLOORS, WALLS, CEILINGS, ROOFS, OR RUNS INSIDE OF CHASES. FIRE-PROOFING METHODS AND MATERIALS SHALL BE AS REQUIRED TO MAINTAIN FIRE/SMOKE RATING OF PARTITION.
24. IF A PROTECTIVE DEVICE RATING IS MARKED ON AN APPLIANCE OR EQUIPMENT, THE BRANCH-CIRCUIT OVERCURRENT DEVICE RATING SHALL NOT EXCEED THE PROTECTIVE DEVICE RATING MARKED ON THE APPLIANCE OR EQUIPMENT.
25. ALL EMERGENCY LIGHTS, NIGHT LIGHTS, AND EXIT LIGHTS ARE UNSWITCHED UNLESS NOTED OTHERWISE OR SHOWN.
26. ALL SWITCHES SHALL BE 3" AWAY FROM DOOR TRIM. ALL OCCUPANCY SENSORS SHALL BE PASSIVE INFRARED AND ULTRASONIC TECHNOLOGY TO SENSE OCCUPANCY.
27. PROVIDE 3/4" CONDUIT WITH 200LB TEST NYLON PULL-WIRE FROM DATA/TELEPHONE OUTLET BOXES TO 6" ABOVE ACCESSIBLE CEILING.
28. ANY FIRE ALARM COMPONENTS SHOWN ON PLANS ARE FOR REFERENCE ONLY AND MAY BE MINIMAL. PROVIDE AND INSTALL ALL DEVICES AND MATERIALS NECESSARY FOR A COMPLETE FIRE ALARM SYSTEM AS REQUIRED BY THE LOCAL CODES, NFPA AND REGULATIONS.
29. ALL MECHANICAL EQUIPMENT CONTROLS SHALL BE POWERED FROM UNIT.
30. GC IS RESPONSIBLE FOR SUBMITTING DOCUMENTS TO FSEC IN COORDINATION WITH SCOOTERS CORPORATE FOR VERIFICATION OF ALL EQUIPMENT SPECS, REQUIREMENTS, CONNECTIONS, UTILITIES, ETC. ANY DISCREPANCIES WILL BE BROUGHT TO THE ATTENTION OF SCOOTERS CORP AND THE ARCHITECT FOR REVIEW AND RESPONSE DURING THE BID PROCESS.

HOMERUNS AND BRANCH WIRING FOR 20 AMPS CIRCUITS SHALL BE AS FOLLOWS:

LENGTH	CIRCUIT WIRE SIZE	HOMERUN WIRE SIZE
1' TO 50'	#12 AWG	#12 AWG
51' TO 75'	#12 AWG	#10 AWG
76' TO 120'	#10 AWG	#8 AWG
121' TO 190'	#10 AWG	#6 AWG
191' TO 300'	#10 AWG	#4 AWG

ONE LINE GENERAL NOTES

A. SES COMPONENTS, INCLUDING OVERCURRENT PROTECTIVE DEVICES SHALL BE FULLY-RATED FOR THE AVAILABLE FAULT CURRENT PROVIDED BY THE UTILITY COMPANY.

B. A 42K/10K SERIES RATED SYSTEM IS INTENDED, BASED ON WORST CASE AVAILABLE FAULT FROM THE SES SIZE.

C. PER NEC ARTICLE 240.86(A), PROVIDE IDENTIFICATION AT EACH DISCONNECT MEANS FEEDING DOWNSTREAM DEVICES APPLIED IN SERIES COMBINATION. PROVIDE NOTE INDICATING: "CAUTION - SERIES RATED DEVICES ARE FED FROM THE REMOTE MAIN ----AMPS AVAILABLE. IDENTIFIED REPLACEMENT COMPONENT REQUIRED." CONTRACTOR TO FILL IN BLANK WITH AVAILABLE FAULT CURRENT OBTAINED FROM UTILITY COMPANY, OR AS SHOWN ON THE FAULT-CURRENT SCHEDULE.

D. PER NEC ARTICLE 110.22, PROVIDE IDENTIFICATION AT ENCLOSURE OF PANELBOARD WHERE BREAKERS ARE APPLIED IN SERIES COMBINATION, STATING: "CAUTION - SERIES COMBINATION SYSTEM RATED ----AMPS AVAILABLE. IDENTIFIED REPLACEMENT COMPONENTS REQUIRED." CONTRACTOR TO FILL IN BLANK WITH AVAILABLE FAULT-CURRENT FROM FAULT-CURRENT SCHEDULE OR AS CALCULATED BY A QUALIFIED PERSON APPROVED BY THE AUTHORITY HAVING JURISDICTION USING ACTUAL AVAILABLE FAULT FROM UTILITY COMPANY.

E. PROVIDE ARC-FLASH AND SHOCK-HAZARD WARMING IDENTIFICATION PER NEC ARTICLE 110.16

F. NO DESIGN CHANGES MAY BE MADE TO THE SYSTEM WITHOUT THE PRIOR APPROVAL OF THE DESIGN ENGINEER AND THE ELECTRICAL INSPECTOR.

G. THE FEEDER LENGTHS SHOWN IN THE INPUT DATA IS FOR CALCULATIONS ONLY. IT IS NOT THE INTENT TO USE THESE ENTERED LENGTHS FOR USAGE OF ACTUAL FIELD FEEDER LENGTH MEASUREMENTS.

PANEL SCHEDULE GENERAL NOTES

A. AIC RATING SHOWN ON PANEL SCHEDULES ARE THE MINIMUM RATING FOR NEW AND REPLACEMENT OVERCURRENT PROTECTIVE DEVICES.

B. ALL PANELBOARDS SHALL HAVE A TYPE WRITTEN DIRECTORY IDENTIFYING EACH NUMBERED CIRCUIT PLACED IN A DIRECTORY HOLDER INSIDE THE DOOR.

C. THE CONTRACTOR SHALL PERMANENTLY MARK WITH PERMANENT MARKER THE CIRCUIT IDENTIFICATIONS ON THE COVERPLATES OF RECEPTACLES, EQUIPMENT, AND LIGHTING JUNCTION BOXES. (STICK-ON LABELS NOT ACCEPTABLE)

D. PER NEC 210.4(B) ALL MULTI-WIRE BRANCH CIRCUITS ARE TO BE PROVIDED WITH A DEVICE THAT WILL DISCONNECT POWER TO ALL UNGROUNDED CONDUCTORS SIMULTANEOUSLY AT THE POINT OF ORIGIN.

SERIES RATING NOTES

A. THE SWITCHGEAR MANUFACTURER SHALL PROVIDE A UL-LISTED SERIES-RATED DISTRIBUTION SYSTEM BASED ON THE SHORT-CIRCUIT INFORMATION CONTAINED WITHIN THIS SINGLE-LINE DIAGRAM. IN LIEU OF A LISTED SERIES-RATED DISTRIBUTION SYSTEM THE SWITCHGEAR MANUFACTURER MAY PROVIDE A FULLY RATED SYSTEM BASED ON THE AVAILABLE UTILITY FAULT-CURRENT PROVIDED BY THE UTILITY COMPANY.

B. THE SERIES-RATED SYSTEM SHALL BE AS NOTED ON THE SINGLE-LINE DIAGRAM. MOTOR CONTRIBUTION IS LESS THAN 1% ON ALL SERIES-RATED PANELS (U.N.O). NO DESIGN CHANGES MAY BE MADE TO THE SYSTEM WITHOUT THE PRIOR APPROVAL OF THE ELECTRICAL DESIGN CHANGES ENGINEER AND THE ELECTRICAL INSPECTOR. THE MANUFACTURER SHALL PROVIDE THE APPROPRIATE TAGS AND LABELS ON ALL SWITCHBOARDS AND PANELBOARDS AS REQUIRED PER NEC ARTICLES 110 AND 240, TO IDENTIFY THIS AS A SERIES-RATED SYSTEM.

REGISTRATION SEAL
NORTH CAROLINA PROFESSIONAL SEAL 035265 ENGINEER ROBERT L. QUEATHEM
4/16/25

ROBERT L. QUEATHEM
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ST. LOUIS, MO 63146
FAX (314) 415-2300
www.arcv.com

SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
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TITLE:

ELECTRICAL ONE-LINE DIAGRAM & PANEL SCHEDULE

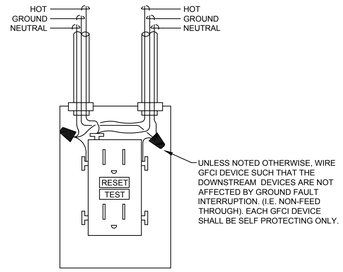
PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

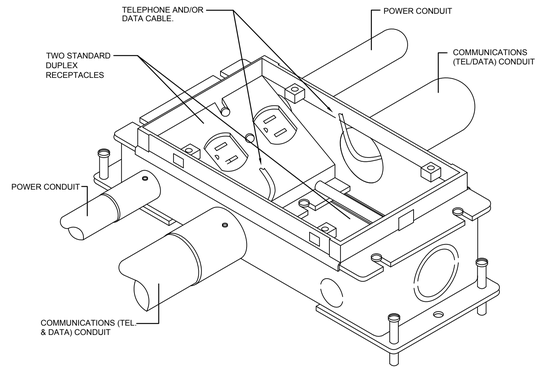
KIOSK PROTOTYPE:
4.2 REVERSE PROTOTYPE
JUNE 2024
ISSUE DATE:
03/21/2024
PROJECT NO.
240761
DRAWN BY:
BPA
CHECKED BY:
SAH

SHEET NO.

E1.2

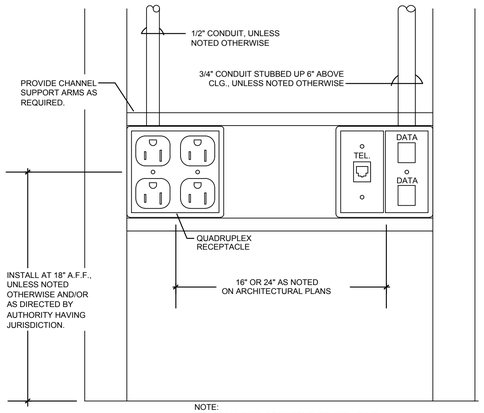


10 GFCI RECEPTACLE DETAIL
SCALE: NONE



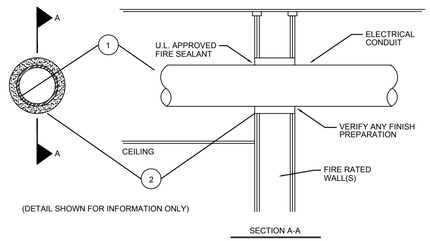
FLANGE AND COVER PLATE SHALL BE BRASS. VERIFY WITH ARCHITECT/OWNER.

9 RECEPTACLE/TELE/DATA FLOOR BOX DETAIL
SCALE: NONE



NOTE:
VERIFY ALL FINAL REQUIREMENTS, INCLUDING PHONE AND DATA CONNECTOR TYPES, WITH OWNER PRIOR TO INSTALLATION.

8 RECEPTACLE/TELE/DATA OUTLETS DETAIL
SCALE: NONE



(DETAIL SHOWN FOR INFORMATION ONLY)

SECTION A-A

1. THROUGH PENETRANTS - ONE METALLIC PIPE, CONDUIT OR TUBING TO BE CENTERED WITHIN THE FIRESTOP SYSTEM. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:

A. STEEL PIPE - NOM 4 IN. DIAM (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL PIPE.

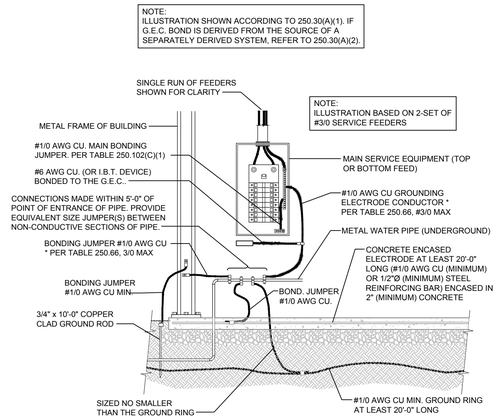
B. CONDUIT - NOM 4 IN. DIAM. (OR SMALLER) ELECTRICAL METALLIC TUBING OR STEEL CONDUIT.

C. COPPER TUBING - NOM 4 IN. DIAM. (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.

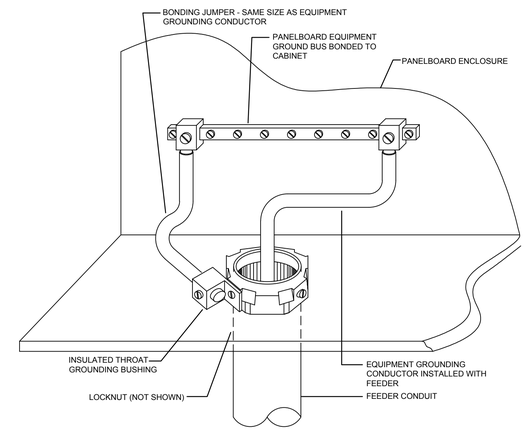
D. COPPER PIPE - NOM 4 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

2. FILL, VOID, OR CAVITY MATERIAL SHALL BE OF NO LESS QUALITY THAN HILTI CONSTRUCTION CHEMICALS, INC. #FS601 SEALANT BEARING THE U.L. CLASSIFICATION MARKING. SEALANT SHALL BE APPLIED A MINIMUM OF 5/8 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL.

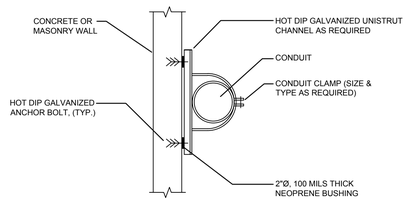
7 PIPE PENETRATION OF FIRE RATED WALLS
SCALE: NONE



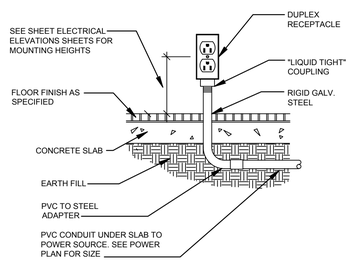
6 GROUNDING ELECTRODE DETAIL
SCALE: NONE



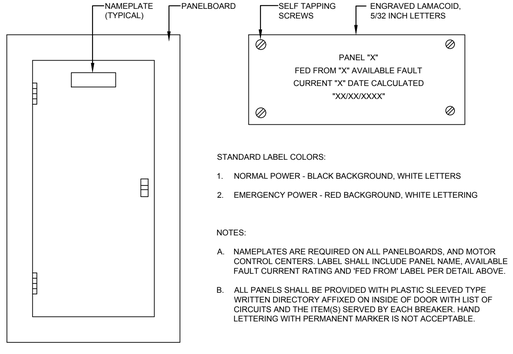
5 PANEL BOARD BONDING DETAIL
SCALE: NONE



4 TYP CONDUIT SUPPORT DETAIL
SCALE: NONE



3 TYP CONDUIT STUB-UP DETAIL
SCALE: NONE



STANDARD LABEL COLORS:

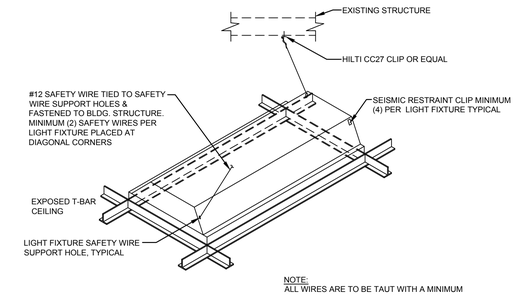
1. NORMAL POWER - BLACK BACKGROUND, WHITE LETTERS
2. EMERGENCY POWER - RED BACKGROUND, WHITE LETTERING

NOTES:

A. NAMEPLATES ARE REQUIRED ON ALL PANELBOARDS, AND MOTOR CONTROL CENTERS. LABEL SHALL INCLUDE PANEL NAME, AVAILABLE FAULT CURRENT RATING AND 'FED FROM' LABEL PER DETAIL ABOVE.

B. ALL PANELS SHALL BE PROVIDED WITH PLASTIC SLEEVED TYPE WRITTEN DIRECTORY AFFIXED ON INSIDE OF DOOR WITH LIST OF CIRCUITS AND THE ITEM(S) SERVED BY EACH BREAKER. HAND LETTERING WITH PERMANENT MARKER IS NOT ACCEPTABLE.

2 PANEL BOARD NAMEPLATE DETAIL
SCALE: NONE



NOTE:
ALL WIRES ARE TO BE TAUT WITH A MINIMUM OF 3 TIGHT TURNS AROUND SELF-TYPICAL

1 TYP RECESSED FIXTURE SUPPORT DETAIL
SCALE: NONE

REGISTRATION SEAL
NORTH CAROLINA PROFESSIONAL SEAL 035265 ENGINEER ROBERT L. QUEATHEM
4/16/25

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SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
1			
2			
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TITLE:
ELECTRICAL DETAILS

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

KIOSK PROTOTYPE:
4.2 REVERSE PROTOTYPE
JUNE 2024
ISSUE DATE:
03/21/2024
PROJECT NO.
240761
DRAWN BY:
BPA
CHECKED BY:
SAH

SHEET NO.
E1.3

COMcheck Software Version COMcheckWeb

Interior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2016) Standard
Project Title: 240761 - SCOOTER'S COFFEE - CAMERON, NC (2016 ASHRAE))
Project Type: New Construction

Construction Site:
130 Brandywood Ct.
Cameron, North Carolina 28326

Owner/Agent:
Scooter's Coffee

Designer/Contractor:
Robert L. Queathem
1950 Craig Road, Suite #300
Saint Louis, Missouri 63146
arcv@arcv.com

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Restroom (Common Space Types:Restrooms)	56	0.85	48
2-Kitchen Area (Common Space Types:Food Preparation)	608	1.06	644
		Total Allowed Watts =	692

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
1-Restroom (Common Space Types:Restrooms)				
LED: T1: 2X4 LED LAY-IN: LED Other Fixture Unit 40W:	1	1	40	40
2-Kitchen Area (Common Space Types:Food Preparation)				
LED: T1: 2X4 LED LAY-IN: LED Other Fixture Unit 40W:	1	11	40	440
			Total Proposed Watts =	480

Interior Lighting PASSES: Design 31% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 90.1 (2016) Standard requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Frederick J. Goglia — Name - Title
Signature
2025.03.11 — Date

COMcheck Software Version COMcheckWeb

Exterior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2016) Standard
Project Title: 240761 - SCOOTER'S COFFEE - CAMERON, NC (2016 ASHRAE))
Project Type: New Construction
Exterior Lighting Zone 2 (Neighborhood business district (LZ2))

Construction Site:
130 Brandywood Ct.
Cameron, North Carolina 28326

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Designer/Contractor:
Robert L. Queathem
1950 Craig Road, Suite #300
Saint Louis, Missouri 63146
arcv@arcv.com

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts /	D Tradable Wattage	E Allowed Watts (B X C)
Illuminated Facade (Illuminated area of facade wall or surface)	1674 ft2	0.1	No	167
Driveway (Driveway)	14929 ft2	0.04	Yes	597
Drive-up Window (Drive-up windows/doors)	1 windows	200	No	200
		Total Tradable Watts (a) =		597
		Total Allowed Watts =		965
		Total Allowed Supplemental Watts (b) =		400

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
Illuminated Facade (Illuminated area of facade wall or surface, 1674 ft2): Non-tradable Wattage				
LED: A: Wall Sconce: Other:	1	5	12	60
LED: B: Decorative Strip-Tape: Other:	1	130	3	377
Driveway (Driveway, 14929 ft2): Tradable Wattage				
LED: BLC4: Site Light: Other:	1	4	93	372
Drive-up Window (Drive-up windows/doors, 1 windows or doors): Non-tradable Wattage				
LED: A: Wall Sconce: Other:	1	1	12	12
			Total Tradable Proposed Watts =	372

Exterior Lighting PASSES: Design 49% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 90.1 (2016) Standard requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Frederick J. Goglia — Name - Title
Signature
2025.03.11 — Date

COMcheck Software Version COMcheckWeb

Inspection Checklist

Energy Code: 90.1 (2016) Standard

Requirements: 21.0% were addressed directly in the COM*check* software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
4.2.2, 8.4.1.1, 8.4.1.2, 8.7 [PR6][2]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the electrical systems and equipment and document where exceptions are claimed. Feeder connectors sized in accordance with approved plans and branch circuits sized for maximum drop of 3%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
4.2.2, 9.4.3, 9.7 [PR4][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
9.7 [PR8][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
8.4.2 [EL10][2]	At least 50% of all 125 volt 15- and 20-Amp receptacles are controlled by an automatic control device.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
8.4.3 [EL11][2]	New buildings have electrical energy use measurement devices installed. Where tenant spaces exist, each tenant is monitored separately. In buildings with a digital control system the energy use is transmitted to to control system and displayed graphically.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
9.4.1.1 [EL1][2]	Automatic control requirements prescribed in Table 9.6.1, for the appropriate space type, are installed. Mandatory lighting controls (labeled as 'REQ') and optional choice controls (labeled as 'ADD1' and 'ADD2') are implemented.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
9.4.1.1 [EL2][2]	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
9.4.1.1f [EL13][1]	Daylight areas under skylights and roof monitors that have more than 150 W combined input power for general lighting are controlled by photocontrols.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
9.4.1.4 [EL3][2]	Automatic lighting controls for exterior lighting installed.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
9.4.1.3 [EL4][1]	Separate lighting control devices for specific uses installed per approved lighting plans.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
9.6.2 [EL8][1]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
8.7.1 [FI16][1]	Furnished as-built drawings for electric power systems within 30 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
8.7.2 [FI17][1]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
9.2.2.3 [FI18][1]	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Interior Lighting fixture schedule for values.*
9.4.2 [FI19][1]	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Exterior Lighting fixture schedule for values.*
9.4.4 [FI20][1]	At least 75% of all permanently installed lighting fixtures in dwelling units have >= 55 lm/W efficacy or a >= 45 lm/W total luminaire efficacy.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

REGISTRATION SEAL
NORTH CAROLINA PROFESSIONAL SEAL 035265 ENGINEER ROBERT L. QUEATHEM
4/16/25

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SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
1			
2			
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TITLE:

ELECTRICAL ENERGY FORMS

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

KIOSK PROTOTYPE:
4.2 REVERSE PROTOTYPE
JUNE 2024
ISSUE DATE:
03/21/2024
PROJECT NO.
240761
DRAWN BY:
BPA
CHECKED BY:
SAH

SHEET NO.

E1.4

SCOOTER'S COFFEE LIGHTING SCHEDULE

FIXTURE INFORMATION						LAMP(S) ELECTRICAL CHARACTERISTICS						
TAG	QTY.	MANUFACTURER	DESCRIPTION	MODEL NUMBER	MOUNTING	QTY.	VOLTS	WATTS	LAMP TYPE	DIMMER / TYPE	LUMENS PER FIXTURE	NOTES
A	6	LITHONIA LIGHTING	EXTERIOR WALL SCONCE	WPX1 LED P1 30K MVOLT	WALL	1	120	12	LED	N/A	1537	1,4,8
AEM	1	LITHONIA LIGHTING	EXTERIOR WALL SCONCE WITH EMERGENCY CAPABILITY	WPX1 LED P1 30K MVOLT E4WC	WALL	1	120	12	LED	N/A	1537	2,4,8
B	130'	NOVA FLEX	EXTERIOR LED STRIP LIGHT	NF PRO W 120 24V 3K	SURFACE	1	120	2.9W/FT	LED	N/A	210	1,4,8
EM1	4	BEST LIGHTING	EMERGENCY UNIT	RMR-16-LED	SEMI-RECESSED	1	120	(2) 3.3W	MR-16	N/A	UNKNOWN	2,4
T1	12	ADVANTAGE ENVIRONMENTAL LIGHTING	2'X4' LAY-IN	CB24-S-S-M	RECESSED	1	120	40	LED	N/A	5000	1,3,4
EX1	1	ADVANTAGE ENVIRONMENTAL LIGHTING	EXIT SIGN	XEM9U2RW	CEILING	1	120	1	LED	N/A	UNKNOWN	2,4
BLC4	4	LITHONIA LIGHTING	SITE LIGHT	DSX0 LED P4 30K 80CRI BLC4 MVOLT SPA	POLE	1	120	93	LED	N/A	8,023	5,6,8
SP	4	LITHONIA LIGHTING	SITE LIGHT POLE	SSS	CONCRETE POLE BASE	N/A	N/A	N/A	N/A	N/A	N/A	7,8

NOTES:

1 CONTRCTOR TO CONSULT WITH LIGHTING MANUFACTURE TO PROVIDE U.L. LABELING TO REFLECT ACTUAL LAMP WATTAGE USED, NOT MAXIMUM FIXTURE WATTAGE.
2 PROVIDE WITH 90min. EMERGENCY BATTERY BACKUP MINIMUM.
3 RECESSED FIXTURES INSTALLED IN AN INSULATED CEILING SHALL BE I.C. RATED.
4 VERIFY MOUNTING ACCESSORIES. RIGIDLY CONNECT FIXTURE AT LOCATION INDICATED ON PLANS.
5 PROVIDE SITE LIGHTING WITH ADDITIONAL SHIELDING, IF REQUIRED BY AHJ. ADDITIONAL FRONT, SIDE, BACK, AND C-SHAPED SHIELDING OPTIONS AVAILABLE THRU MANUFACTURER.
6 SEE SITE PLAN ON SHEET E0.1 AND CIVIL DRAWINGS FOR ADDITIONAL INFORMATION. CONFIRM LIGHT FIXTURE SPECIFICATION WITH OWNER AND ARCHITECT PRIOR TO BID. CONFIRM SITE LIGHT POLE TO BE SUPPLIED BY MANUFACTURER PRIOR TO BID OF MOUNTING ACCESSORIES NECESSARY TO RIGIDLY CONNECT LIGHT FIXTURE TO POLE. PROVIDE LIGHT FIXTURE AND NECESSARY MOUNTING ACCESSORIES. ORIENT FIXTURE AS INDICATED ON PLAN. MAKE FINAL CONNECTIONS.
7 SEE SITE PLAN ON SHEET E0.1 AND CIVIL DRAWINGS FOR ADDITIONAL INFORMATION. CONFIRM SITE LIGHT POLE SPECIFICATION AND REQUIREMENTS WITH OWNER, CIVIL, ARCHITECT, AND MANUFACTURER PRIOR TO BID. PROVIDE ALL NECESSARY MOUNTING ACCESSORIES TO RIGIDLY CONNECT SITE LIGHT POLE TO POLE BASE CONSTRUCTED BY CIVIL/STRUCTURAL.
8 COORDINATE COLOR WITH ARCHITECT PRIOR TO BID.

LIGHTING CONTROL DEVICE SCHEDULE

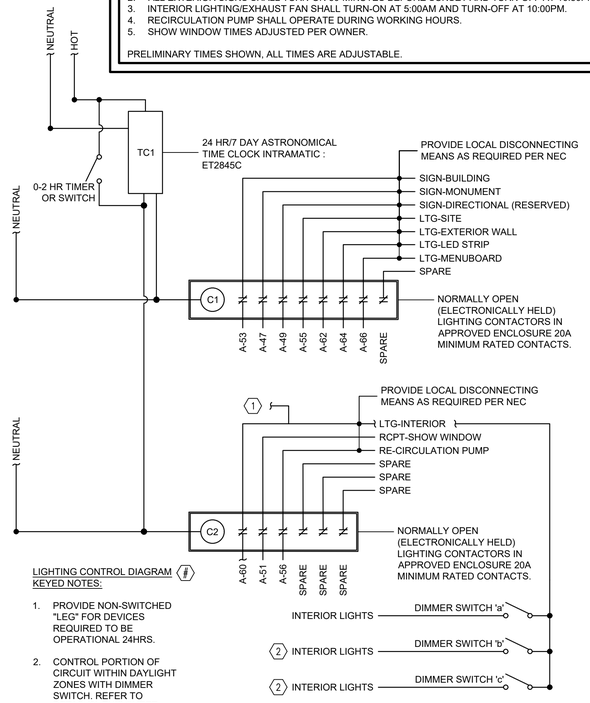
CALLOUT	SYMBOL	MANUFACTURER / MODEL NUMBER	UNOBSTRUCTED COVERAGE	MOUNTING	VOLTAGE	TIME DELAY	DESCRIPTION
OCCUPANCY SENSOR SWITCH	$OS	nLIGHT WSX-PDT	---	WALL	LINE	---	LINE VOLTAGE SWITCH DUAL TECHNOLOGY SENSOR
DIMMER SWITCH	$D	ACUITY CONTROLS sPODMRD	---	WALL	LINE	---	LINE VOLTAGE PUSH BUTTON SWITCH POD ON/OFF
TOGGLE SWITCH	$	HUBBEL 1221	---	WALL	LINE	---	---

NOTES:
1. SENSOR REQUIRES POWER PACK (INSTALL IN ACCESSIBLE LOCATION)
2. SWIVEL MOUNTING BRACKET INCLUDED
3. ELECTRICAL CONTRACTOR SHALL COORDINATE COMPATIBILITY OF LIGHT FIXTURES AND LIGHTING CONTROL DEVICES/ SYSTEM WITH CONTROL SYSTEM SUPPLIER PRIOR TO ORDERING/ ROUGH-IN
4. VERIFY POWER REQUIREMENT FOR CEILING SENSOR. IF IT REQUIRES CONTINUOUS HOT, PULL UNDIMMED WIRE FROM AHEAD OF DIMMER SWITCH TO CEILING SENSOR FOR SENSOR OPERATING, AND RUN DIMMED LINE THROUGH SENSOR FOR ON/OFF CONTROL. CONFIRM WITH VENDOR PRIOR TO ORDERING SENSOR TO ENSURE COMPATIBILITY.

TIMECLOCK SEQUENCE OF OPERATION

1. ALL EXTERIOR SIGNS SHALL TURN-ON AT 4:30AM AND TURN-OFF AT 30-MINUTES AFTER SUNRISE.
2. ALL EXTERIOR SIGNS SHALL TURN-ON 30-MINUTES BEFORE SUNSET AND TURN-OFF AT 10:30PM.
3. INTERIOR LIGHTING/EXHAUST FAN SHALL TURN-ON AT 5:00AM AND TURN-OFF AT 10:00PM.
4. RECIRCULATION PUMP SHALL OPERATE DURING WORKING HOURS.
5. SHOW WINDOW TIMES ADJUSTED PER OWNER.

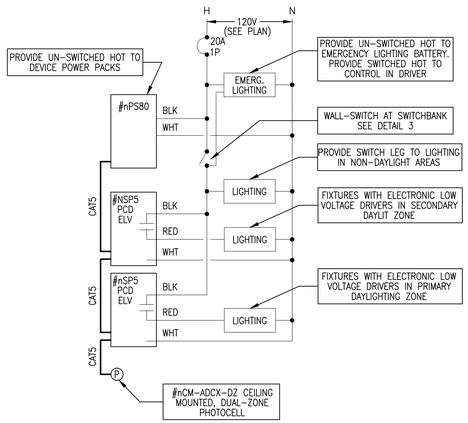
PRELIMINARY TIMES SHOWN, ALL TIMES ARE ADJUSTABLE.



LIGHTING CONTROL DIAGRAM (#) KEYED NOTES:

1. PROVIDE NON-SWITCHED "LEG" FOR DEVICES REQUIRED TO BE OPERATIONAL 24HRS.
2. CONTROL PORTION OF CIRCUIT WITHIN DAYLIGHT ZONES WITH DIMMER SWITCH. REFER TO DETAIL '3', THIS SHEET.

2 TIME CLOCK DIAGRAM
SCALE: NOT TO SCALE



DAYLIGHT CONTROL SENSOR DIAGRAM GENERAL NOTES:

1. POWER PACK, RELAY PACK, AND PHOTOCELL MANUFACTURED BY ACUITY BRANDS SENSOR SWITCH. COORDINATE ALL REQUIREMENTS WITH MANUFACTURER.
2. PHOTOCELL AND DIMMING RELAYS SHALL BE PROGRAMMED TO PROVIDE THE FOLLOWING FUNCTIONALITY:
   2.1. CONTROLS SHALL PROVIDE CONTINUOUS DIMMING.
   2.2. FOR THE PRIMARY ZONE IN EACH SPACE, THE COMBINED ILLUMINANCE FROM THE CONTROLLED LIGHTING AND DAYLIGHT SHALL NOT BE LESS THAN THE ILLUMINANCE FROM CONTROLLED LIGHTING WHEN NO DAYLIGHT IS AVAILABLE. IN THE DARKEST PORTION OF THE DAYLIT ZONE (FURTHEST AWAY FROM WINDOWS OR SKYLIGHTS) THE CONTROL SHOULD NOT OVER-DIM THE LIGHTS; THIS SECTION OF THE DAYLIGHTED AREA SHOULD NOT GET DARKER AS DAYLIGHT LEVELS INCREASE, DUE TO AN INCORRECT CALIBRATION OF THE CONTROLS.
   2.3. IN AREAS SERVED BY LIGHTING THAT IS DAYLIGHT CONTROLLED, WHEN THE ILLUMINANCE RECEIVED FROM THE DAYLIGHT IS GREATER THAN 150 PERCENT OF THE ILLUMINANCE RECEIVED FROM THE GENERAL LIGHTING SYSTEM AT FULL POWER, THE GENERAL LIGHTING POWER IN THAT DAYLIGHT ZONE SHALL BE REDUCED BY A MINIMUM OF 65 PERCENT. E.C. SHALL FIELD MEASURE ACTUAL GENERAL LIGHTING LEVELS AND ADJUST DAYLIGHT SENSOR ACCORDINGLY.

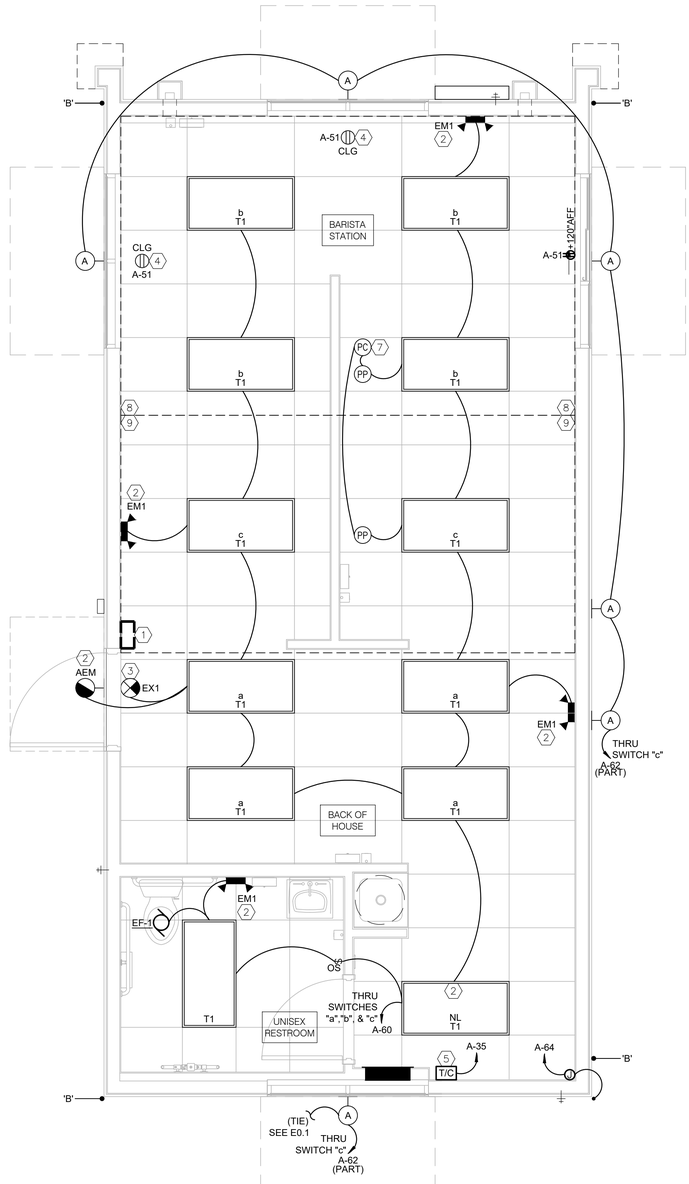
4 DAYLIT CONTROL SENSOR DIAGRAM
SCALE: NONE

LEGEND
① SINGLE POLE SWITCH
② SINGLE POLE DIMMER SWITCH

a	b	c
② INTERIOR LIGHTS	② INTERIOR LIGHTS PRIMARY DAYLIGHT ZONE	② INTERIOR LIGHTS SECONDARY DAYLIGHT ZONE

48" A.F.F. TOP OF BOX (MAXIMUM). (MOUNT SWITCHES IN ACCORDANCE W/ ADA REQUIREMENTS.)
FLOOR

3 SWITCH BANK DETAIL
SCALE: N.T.S.



5 1 ELECTRICAL LIGHTING PLAN
SCALE: 3/8" = 1'-0"

NORTH

LIGHTING KEYED NOTES (X)

1. SEE DETAIL 3 ON THIS SHEET FOR SWITCH INFORMATION. PROVIDE SWITCHES ON WALL AS INDICATED. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO INSTALLATION.
2. NIGHT LIGHT AND EMERGENCY EGRESS LIGHT SHALL BE CIRCUITED TO UNSWITCHED LEG OF LOCAL LIGHT CIRCUIT.
3. EXIT LIGHT SHALL BE CIRCUITED TO UNSWITCHED LEG OF LOCAL LIGHT CIRCUIT. PROVIDE CHEVRONS AS NEEDED.
4. SHOW WINDOWS RECEPTACLE TO BE INSTALLED PER N.E.C. 210.62 & 220.14(G).
5. PROVIDE AND INSTALL TIMECLOCK. SEE DETAIL 2 ON THIS SHEET FOR LIGHTING CONTROL INFORMATION. ROUTE LIGHTING CIRCUITS THROUGH TIMECLOCK AS INDICATED.
6. PROVIDE NEMA-1 JUNCTION BOX INSIDE THE BUILDING FOR HOUSING OF (2) LED DRIVERS AND CONNECTION TO OUTDOOR LED LIGHT STRIP. MOUNT AND PROTECT PER NEC AND LOCAL CODE REQUIREMENTS.
7. PROVIDE PHOTOCELL FOR DAYLIGHT CONTROL. SEE DETAIL '4', THIS SHEET, FOR ADDITIONAL INFORMATION.
8. PRIMARY DAYLIGHT ZONE AS DEFINED BY 2016 ASHRAE-90.1 SECTION 3.
9. SECONDARY DAYLIGHT ZONE AS DEFINED BY 2016 ASHRAE-90.1 SECTION 3.

LIGHTING GENERAL NOTES

A. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BASE BID. IN CASE OF ANY DISCREPANCIES WITH EXISTING FIELD CONDITIONS, ELECTRICAL CONTRACTOR SHALL VERIFY THE EXACT DIFFERENCE FOR POSSIBLE REVISIONS TO THIS DOCUMENT.

B. INSTALL RECESSED LUMINAIRES USING ACCESSORIES AND FIRE STOPPING MATERIALS TO MEET REGULATORY REQUIREMENTS FOR FIRE RATING.

C. COORDINATE ALL EXTERIOR BUILDING MOUNTED LIGHT FIXTURES WITH ARCHITECTURAL BUILDING ELEVATIONS FOR HEIGHTS AND LOCATIONS.

D. PROVIDE EXIT SIGNS FOR ALL EXISTS DESIGNATED BY THE CODE STUDY PLAN. REFER TO ARCHITECTURAL CODE PLANS FOR LOCATIONS AND REQUIREMENTS.

E. CONDUIT AND WIRING SHOWN FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO PROVIDE THE NUMBER OF CONDUCTOR REQUIRED FOR HOT-LEGS, NEUTRAL AND GROUNDING AT EACH DEVICE FOR PROPER BRANCH CIRCUITING SHOWN FOR EACH AREA OR ROOM.

F. ALL EMERGENCY/EXIT FIXTURES AND ARE TO BE PROVIDED WITH MINIMUM 90 MIN EMERGENCY BATTERY BACK-UP. BYPASS ENERGY MANAGEMENT SYSTEM WHERE REQUIRED.

G. WHEN REQUIRED, IT IS THE OWNER'S RESPONSIBILITY TO CONTRACT WITH A COMMISSIONING AUTHORITY TO COMPLY WITH LOCAL CODES.

H. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DISCIPLINES DRAWINGS. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECTS AND ENGINEERS PRIOR TO FINAL BID CLOSING.

I. PROVIDE REQUIRED WORKING SPACE/CLEARANCE FOR ELECTRICAL PANEL PER N.E.C.. CONTRACTOR TO CLEARLY IDENTIFY/INDICATE NOT LESS THAN 30"WX36"D CLEARANCE AREA/WORKING SPACE (PER IFC 605.3). IF EQUIPMENT IS LARGER THAN 30" WIDE, WORKING SPACE/CLEARANCE SHALL NOT BE LESS THAN EQUIPMENT WIDTH.

ADDITIONAL NOTE

PROVIDE STRUCTURAL ENGINEERING LETTER OF APPROVAL FOR SEISMIC INSTALLATION SUPPORT PRIOR TO INSTALLATION AND AT COMMISSIONING STAGE. ALL EQUIPMENT SEISMIC SUPPORTS AND INSTALLATION METHODS MUST BE SUBMITTED TO STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.

REGISTRATION SEAL
PROFESSIONAL ENGINEER SEAL 035265 ROBERT L. QUEATHEM ENGINEER
4/16/25

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PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
1			
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7			
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TITLE:
ELECTRICAL LIGHTING PLAN & DETAILS

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

KIOSK PROTOTYPE:
4.2 REVERSE PROTOTYPE
JUNE 2024
ISSUE DATE:
03/21/2024
PROJECT NO.
240761
DRAWN BY:
BPA
CHECKED BY:
SAH

SHEET NO.
E2.1

SCOOTER'S COFFEE KITCHEN EQUIPMENT SCHEDULE

EQUIPMENT IDENTIFICATION			ELECTRICAL CHARACTERISTICS						EQUIPMENT CIRCUIT			EQUIPMENT TERMINATION			
TAG	TYPE	EQUIPMENT NAME	PHASE	POLES	VOLTS	AMPS	WATTS	MOCP SIZE	WIRE CALLOUT	WIRE TYPE	CONDUIT TYPE	TYPE	NEMA	MOUNTING HEIGHT (AFF)	NOTES
1	KR	BEVERAGE BLENDER	1	1	120	15	1800	20	SEE PANEL SCHEDULES, SHEET E1.2	CU	EMT	C&P	5-20P	60"	1
2	KR	ICE MAKER	1	2	208/240	5.1	1224	20	SEE PANEL SCHEDULES, SHEET E1.2	CU	EMT	C&P	6-20P	60"	1
2A	O	ICE MAKER CONDENSER	1	2	208/240	8	1920	15	SEE PANEL SCHEDULES, SHEET E1.2	CU	EMT	MCCB	-	VERIFY	1
3	KR	HIGH SPEED OVEN	1	2	208/240	30	7200	30	SEE PANEL SCHEDULES, SHEET E1.2	CU	EMT	C&P	6-30P	30"	1
4A	KR	U/C REFRIGERATOR	1	1	120	3	360	20	SEE PANEL SCHEDULES, SHEET E1.2	CU	EMT	C&P	5-20P	18"	1
4B	KR	U/C REFRIGERATOR	1	1	120	2.8	336	20	SEE PANEL SCHEDULES, SHEET E1.2	CU	EMT	C&P	5-20P	18"	1
5	KR	COFFEE GRINDER	1	1	120	11	1320	20	SEE PANEL SCHEDULES, SHEET E1.2	CU	EMT	C&P	5-20P	30"	1
6	KR	COFFEE BREWER	1	2	208/240	25.5	6120	40	SEE PANEL SCHEDULES, SHEET E1.2	CU	EMT	C&P	6-50P	24"	1
8	O	POS TERMINAL W/ PRINTER	1	1	120	15	1800	20	SEE PANEL SCHEDULES, SHEET E1.2	CU	EMT	C&P	5-20P	30"	1,2
9	KR	ESPRESSO MACHINE	1	2	208/240	30	7200	30	SEE PANEL SCHEDULES, SHEET E1.2	CU	EMT	C&P	6-30P	48"	1,3
11A	KR	DIRECT DRAW DISPENSER	1	1	120	3.5	420	15	SEE PANEL SCHEDULES, SHEET E1.2	CU	EMT	C&P	5-15P	24"	1
13	KR	REACH-IN REFRIGERATOR	1	1	120	4.5	540	20	SEE PANEL SCHEDULES, SHEET E1.2	CU	EMT	C&P	5-20P	48"	1
14A	KR	REACH-IN FREEZER	1	1	120	12	1440	20	SEE PANEL SCHEDULES, SHEET E1.2	CU	EMT	C&P	5-20P	48"	1
14B	KR	REACH-IN FREEZER	1	1	120	9.6	1152	20	SEE PANEL SCHEDULES, SHEET E1.2	CU	EMT	C&P	5-20P	48"	1
22A	O	WATER TREATMENT SYSTEM	1	1	120	2	240	15	SEE PANEL SCHEDULES, SHEET E1.2	CU	EMT	MCCB	-	48"	1
22B	O	WATER TREATMENT SYSTEM	1	1	120	2	240	15	SEE PANEL SCHEDULES, SHEET E1.2	CU	EMT	MCCB	-	48"	1
25	O	WATER PUMP	1	1	120	16	1920	20	SEE PANEL SCHEDULES, SHEET E1.2	CU	EMT	MCCB	-	18"	1
26	O	ZOOM TIMER	1	1	120	2.5	300	15	SEE PANEL SCHEDULES, SHEET E1.2	CU	EMT	C&P	5-15P	90"	1
30A	O	DRIVE-THRU ORDER MONITOR	1	1	120	3	360	20	SEE PANEL SCHEDULES, SHEET E1.2	CU	EMT	C&P	5-20P	78"	1
30B	O	DRIVE-THRU ORDER MONITOR	1	1	120	3	360	20	SEE PANEL SCHEDULES, SHEET E1.2	CU	EMT	C&P	5-20P	72"	1

TYPE: H-HEATING, C-COOLING, KR-KITCHEN RESISTIVE, KM-KITCHEN MOTOR, WH-WATER HEATER, OM-OTHER MOTORS, O-OTHER

DISCONNECT TYPE: HP-HP RATED SWITCH, C&P-CORD & PLUG, LC & P-LOCKING CORD & PLUG, F-FUSED, NF-NON-FUSED, MCCB-MOLDED CASE CIRCUIT BREAKER.

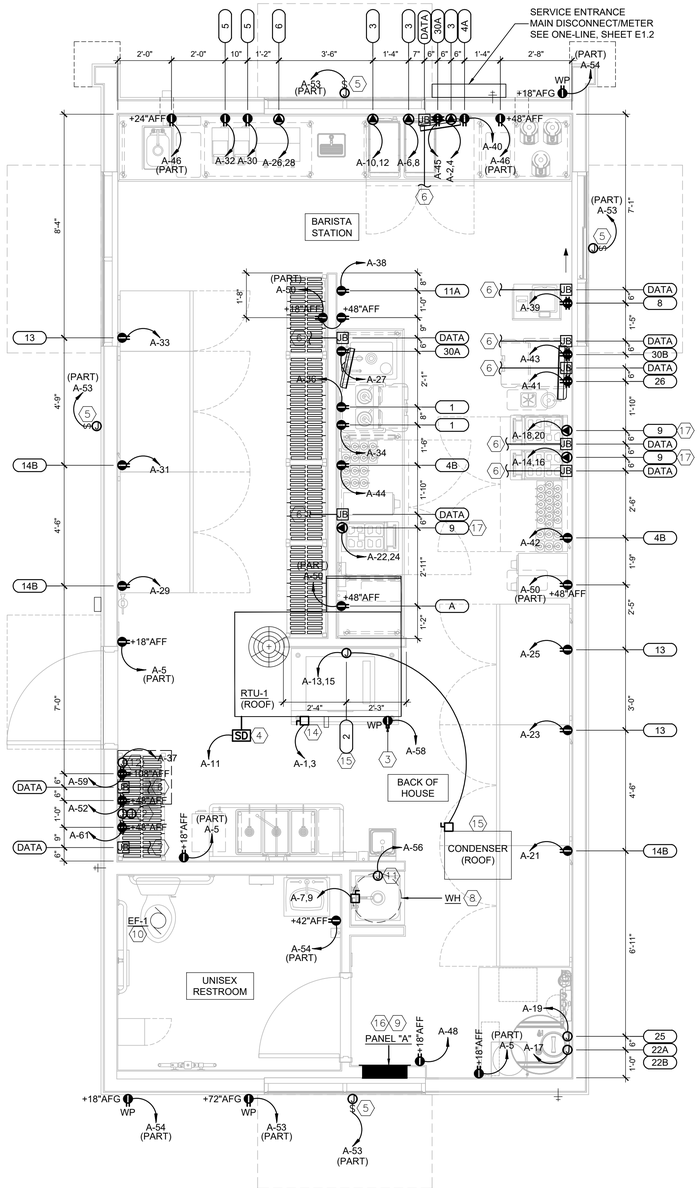
SUPPLIED/INSTALLED BY: GC-GENERAL CONTRACTOR, EC-ELECTRICAL CONTRACTOR, HC-HVAC CONTRACTOR, PC-PLUMBING CONTRACTOR, ES-EQUIPMENT SUPPLIER.

NOTES:

1. VERIFY EQUIPMENT SUPPLIER AND ELECTRICAL CHARACTERISTICS PRIOR TO BID. VERIFY LOCATION AND INSTALLATION REQUIREMENTS PRIOR TO ROUGH-IN. EC SHALL PROVIDE NECESSARY SUPPORTING ELECTRICAL DEVICES AND INSTALL WITH EQUIPMENT SUPPLIED, MAKE FINAL CONNECTIONS, AND VERIFY PROPERTY OPERATION.
2. EC SHALL PROVIDE (2) CAT5 DATA LINES PER POS AND (1) CAT5 DATA LINE AT ORDER SCREEN.
3. GC SHALL PROVIDE BUCK BOOST TRANSFORMER, WHERE ACCEPTACLE PER CODE, TO ACHIEVE 208V AT EQUIPMENT.

POWER KEYED NOTES (X)

1. PROVIDE DATA RACK RECEPTACLE MOUNTED ABOVE PANEL AT 108" A.F.F. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO INSTALLATION. PANEL MAINTAIN 3'-0" FRONT WORKING CLEARANCE.
2. PROVIDE (2) EMPTY JUNCTION BOXES FOR VOLUME CONTROL W/ CONDUIT ABOVE CEILING. COORDINATE EXACT LOCATION PRIOR TO INSTALLATION.
3. HVAC CONVENIENCE OUTLET(S) AND DISCONNECT(S) SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR, SIZE TO MATCH BREAKERS ON PANEL AND/OR NAMEPLATE PROVIDED.
4. PROVIDE 120V CONNECTION TO DUCT SMOKE DETECTORS. INTERLOCK FOR SIMULTANEOUS UNIT SHUT-DOWN WITHIN 30 SECONDS OR LESS. VERIFY FINAL CONNECTION LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR.
5. CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS AND QUANTITY FOR ELECTRICAL AND BLOCKING/MOUNTING WITH SIGN PROVIDER AND PROVIDE AS NECESSARY PRIOR TO ROUGH-IN. CONTRACTOR SHALL FIELD VERIFY SIGN CIRCUIT COMPLIES WITH ALL LOCAL AND NATIONAL CODES AND IS PROVIDED WITH ALL REQUIRED DISCONNECTING MEANS PER N.E.C. PROVIDE INTERIOR ACCESS PANELS FOR SIGN CIRCUIT AS NECESSARY. SEE SITE PLAN FOR ADDITIONAL INFORMATION.
6. DATA WIRING BY OWNER. ELECTRICAL CONTRACTOR TO PROVIDE SINGLE-GANG JUNCTION BOX W/ PULL STRING AT EACH DATA LOCATION WITH 3/4" CONDUIT CONCEALED IN WALL TO ABOVE ACCESSIBLE CEILING.
7. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OWNER'S REPRESENTATIVE TO VERIFY LOCATION OF TELEPHONE CONNECTION POINT AND RUN CONDUIT AND PHONE/DATA LINES FROM TENANT SPACE TO BASE BUILDING CONNECTION POINT. VERIFY LOCATION IN FIELD.
8. PROVIDE AND INSTALL NEW 60A/2PH DISCONNECT FOR WATER HEATER.
9. PANEL "A" SHALL BE RECESSED-MOUNT, AND FACE OPEN INTO ROOM. FURR OUT WALLS AS NECESSARY.
10. CIRCUIT EXHAUST FAN THRU TIMECLOCK CONTROL FOR OPERATION DURING OCCUPIED HOURS.
11. PLACE RECIRCULATION PUMP OUTLET/J-BOX ABOVE WATER HEATER IN UTILITY ROOM WHERE SPACE ALLOWS.
12. PROVIDE AND INSTALL (1) EMPTY JUNCTION BOX FOR SECURITY PANEL AT +48 A.F.F.
13. NOT USED.
14. PROVIDE AND INSTALL NEW 60A/2P DISCONNECT FOR RTU-1.
15. ICE MAKER AND ROOF-MOUNTED CONDENSER. VERIFY EXACT LOCATION OF CONDENSER. REFER TO EQUIPMENT SCHEDULE, THIS SHEET, FOR CONNECTION INFORMATION. COORDINATE REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO BID. MAKE ALL FINAL CONNECTIONS.
16. BRANCH FEEDER CONDUIT(S) TO BE ROUTED ABOVE FROM DISCONNECT TO PANEL SERVED. COORDINATE ALL ROUTING AND PENETRATIONS THROUGH WALLS. ALL CIRCUITS SHALL BE RAN IN EMT (OR OTHER APPROVED METHODS AND FOR CONDITIONS IN WHICH WIREWAY IS INSTALLED) AND SECURELY BRACED PER NEC FOR TYPE OF WIREWAY USED. ALL PENETRATIONS ARE TO BE SEALED PER THE U.L. DIRECTION FOR THE ENVIRONMENT ENCOUNTERED.
17. ELECTRICAL TRANSFORMER BOX TO BE MOUNTED ABOVE CEILING TILE(S). PROVIDE ADEQUATE CLEARANCE AND INSTALL PER NEC.



1 ELECTRICAL POWER PLAN

SCALE: 3/8" = 1'-0"

NORTH

POWER GENERAL NOTES

A. REFER TO MECHANICAL AND PLUMBING PLANS FOR EXACT SIZE, LOCATION, AND ELECTRICAL REQUIREMENTS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT.

B. ALL EXTERIOR DISCONNECTS SHALL BE W.P. TYPE.

C. ELECTRICAL CONTRACTOR SHALL FIELD-VERIFY ALL CONNECTION REQUIREMENTS (HP, AMPS, VOLTAGE, PHASE, MOUNTING HEIGHT, AND DISCONNECTING MEANS) FOR ALL EQUIPMENT SUPPLIED BY OTHERS BEFORE ROUGH-IN. DISCONNECT SWITCHES SHALL BE LOCATED WITH N.E.C. CODE CLEARANCE OR PROVIDE LOCKOUT TYPE C/B.

D. ALL EQUIPMENT SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.

E. ALL EXTERIOR RECEPTACLE SHALL BE W.P/ GFCI. TYPE.

F. PROVIDE REQUIRED WORKING SPACE/CLEARANCE FOR ELECTRICAL PANELS PER N.E.C.. CONTRACTOR TO CLEARLY IDENTIFY/INDICATE NOT LESS THAN 30"WX36"D CLEARANCE AREA/WORKING SPACE (PER IFC 605.3). IF EQUIPMENT IS LARGER THAN 30" WIDE, WORKING SPACE/CLEARANCE SHALL NOT BE LESS THAN EQUIPMENT WIDTH.

G. WHEN REQUIRED, IT IS THE OWNER'S RESPONSIBILITY TO CONTRACT WITH A COMMISSIONING AUTHORITY TO COMPLY WITH LOCAL CODES.

H. VERIFY GFI REQUIREMENTS PRIOR TO BID. ALL RECEPTACLES WITHIN 6'-0" OF A SINK OR WASH BASIN SHALL BE GFI-RATED.

I. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING EXACT LOCATION, QUANTITIES AND INSTALLATION REQUIREMENTS OF ELECTRICAL EQUIPMENT IN MILLWORK.

J. CONDUITS & WIRING SHOWN FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO PROVIDE THE NUMBER OF CONDUCTORS REQUIRED FOR HOT-LEGS, NEUTRAL, AND GROUNDING AT EACH DEVICE FOR PROPER BRANCH CIRCUITING SHOWN FOR EACH AREA OR ROOM.

K. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DISCIPLINES DRAWINGS. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECTS AND ENGINEERS PRIOR TO FINAL BID CLOSING.

L. ALL RECEPTACLES INSTALLED AT 16" ABOVE FINISH FLOOR UNLESS OTHERWISE NOTED.

M. GENERAL CONTRACTOR TO VERIFY WITH COUNTER FAB VENDER PRIOR TO OUTLET LOCATION.

N. PROVIDE GFCI PROTECTION FOR ALL BACK OF HOUSE/DRIVE THRU WINDOW AND KITCHEN AREA RECEPTACLES PER NEC 210.8 (B)(2). MUST BE READILY ACCESSIBLE OR USE GFI BREAKER.

O. GC IS RESPONSIBLE FOR SUBMITTING DOCUMENTS TO FSEC IN COORDINATION WITH SCOOTERS CORPORATE FOR VERIFICATION OF ALL EQUIPMENT SPECS, REQUIREMENTS, CONNECTIONS, UTILITIES, ETC. ANY DISCREPANCIES WILL BE BROUGHT TO THE ATTENTION OF SCOOTERS CORP AND THE ARCHITECT FOR REVIEW AND RESPONSE DURING THE BID PROCESS.

KITCHEN EQUIPMENT NOTES

A. FINAL CONNECTION TO ALL HARD-WIRED EQUIPMENT SHALL BE MADE WITH "SEAL-TITE" FLEXIBLE CONDUIT.

B. THE ELECTRICAL CONTRACTOR SHALL MAKE FINAL ELECTRICAL CONNECTIONS TO ALL RELATED EQUIPMENT.

C. "CALL OUT" - INDICATES EQUIPMENT IDENTIFICATION NUMBER, REFER TO EQUIPMENT SCHEDULE. COORDINATE WITH EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.

D. THE ELECTRICAL CONTRACTOR SHALL VERIFY ROUGH-IN REQUIREMENTS, LOCATIONS, MOUNTING HEIGHTS, VOLTAGE, PHASE, AMPS, HP, KW, ETC. FOR ALL EQUIPMENT PRIOR TO ROUGH-IN.

E. PROVIDE SEAL-OFF'S FOR ALL CONDUITS ENTERING OR LEAVING WALK-IN BOXES.

F. ALL CIRCUITS SHALL HAVE AN INSULATED GROUND WIRE (BOND) SIZED PER N.E.C. #250.122, #12 MINIMUM GROUND, WIRE NOT SHOWN ON DRAWINGS.

G. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL DISCONNECT SWITCHES, CONDUIT, WIRE AND INSTALL UNDER SUPERVISION OF THE EQUIPMENT SUPPLIER.

H. THE ELECTRICAL CONTRACTOR SHALL VERIFY PLUG CONFIGURATIONS FOR APPLICABLE EQUIPMENT WITH SUPPLIER PRIOR TO ROUGH-IN.

I. ALL SINGLE-PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 50 AMPERES OR LESS AND THREE PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 100 AMPERES OR LESS INSTALLED IN THE KITCHEN AREA SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL PER N.E.C. 210.8 AND INSTALLED IN ACCORDANCE WITH N.E.C. 240.24. ALTERNATIVELY, A GFCI CIRCUIT BREAKER CAN BE INSTALLED.

J. CIRCULATION OF AIR FROM WARMER TO COLDER SECTIONS OF INTERIOR RACEWAY SYSTEM EXPOSED TO WIDELY DIFFERENT TEMPERATURES SHALL BE PREVENTED. SEAL AS REQUIRED PER NEC. PROVIDE EXPANSION JOINTS FOR CONDUIT AS REQUIRED TO COMPENSATE FOR THERMAL EXPANSION AND CONTRACTION.

MECHANICAL GENERAL NOTES

A. VERIFY ALL MECHANICAL UNIT LOCATIONS WITH MECHANICAL PLANS.

B. THE ELECTRICAL CONTRACTOR SHALL NOT MOUNT DISCONNECT EQUIPMENT DIRECTLY TO MECHANICAL UNITS FOR DISCONNECTS 200A AND LARGER. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A SELF-SUPPORTING SYSTEM FOR DISCONNECT EQUIPMENT.

C. PROVIDE WEATHERPROOF, HEAVY-DUTY, NEMA 3R FUSIBLE DISCONNECT SWITCHES FOR ALL MECHANICAL UNITS LOCATED OUTSIDE.

D. ALL EXTERIOR RECEPTACLES SHALL BE WEATHER-RESISTANT GFCI (PASS & SEYMOUR 2095DSWRBK OR EQUAL). INSTALLED IN A WEATHERPROOF ENCLOSURE WITH A WHILE IN USE COVERPLATE (PASS & SEYMOUR #WIUC10DCL OR EQUAL).

E. EXHAUST FANS MOUNTED OUTSIDE SHALL HAVE A WEATHERPROOF DISCONNECT MOUNTED EXTERIOR TO THE UNIT. INTERNAL DISCONNECT SWITCHES SHALL NOT BE ALLOWED.

REGISTRATION SEAL

NORTH CAROLINA PROFESSIONAL SEAL 035265 ENGINEER ROBERT L. QUEATHEM

4/16/25

ROBERT L. QUEATHEM
ENGINEER
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
1			
2			
3			
4			
5			
6			
7			
8			
9			

TITLE:

ELECTRICAL POWER PLAN & SCHEDULES

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

KIOSK PROTOTYPE:
4.2 REVERSE PROTOTYPE
JUNE 2024

ISSUE DATE:
03/21/2024

PROJECT NO.
240761

DRAWN BY:
BPA

CHECKED BY:
SAH

SHEET NO.

E2.2

NOTE: LIGHTING CALCULATIONS ARE PERFORMED WITH A LIGHT LOSS FACTOR OF 1.00.

LIGHTING FIXTURE SCHEDULE

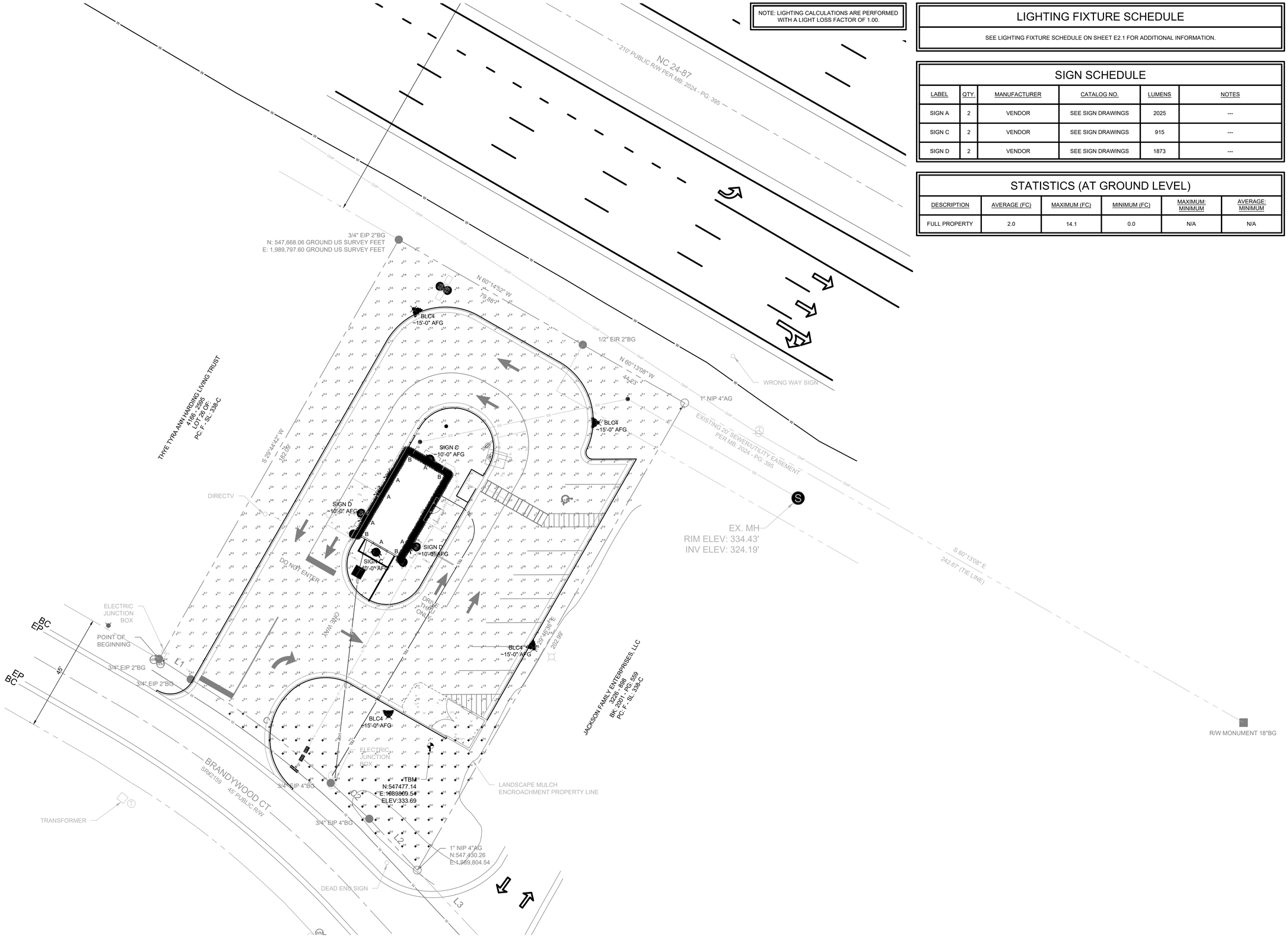
SEE LIGHTING FIXTURE SCHEDULE ON SHEET E2.1 FOR ADDITIONAL INFORMATION.

SIGN SCHEDULE

LABEL	QTY.	MANUFACTURER	CATALOG NO.	LUMENS	NOTES
SIGN A	2	VENDOR	SEE SIGN DRAWINGS	2025	---
SIGN C	2	VENDOR	SEE SIGN DRAWINGS	915	---
SIGN D	2	VENDOR	SEE SIGN DRAWINGS	1873	---

STATISTICS (AT GROUND LEVEL)

DESCRIPTION	AVERAGE (FC)	MAXIMUM (FC)	MINIMUM (FC)	MAXIMUM: MINIMUM	AVERAGE: MINIMUM
FULL PROPERTY	2.0	14.1	0.0	N/A	N/A



1 EXTERIOR SITE PHOTOMETRIC PLAN
SCALE: 1/16"= 1'-0"

REGISTRATION SEAL
NORTH CAROLINA
PROFESSIONAL SEAL
035265
ENGINEER
ROBERT L. QUEATHEM
4/16/25

ROBERT L. QUEATHEM
ENGINEER
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
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TITLE:
EXTERIOR SITE PHOTOMETRIC PLAN

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

KIOSK PROTOTYPE:
4.2 REVERSE PROTOTYPE
JUNE 2024
ISSUE DATE:
03/21/2024
PROJECT NO.
240761
DRAWN BY:
BPA
CHECKED BY:
SAH

SHEET NO.
E3.1

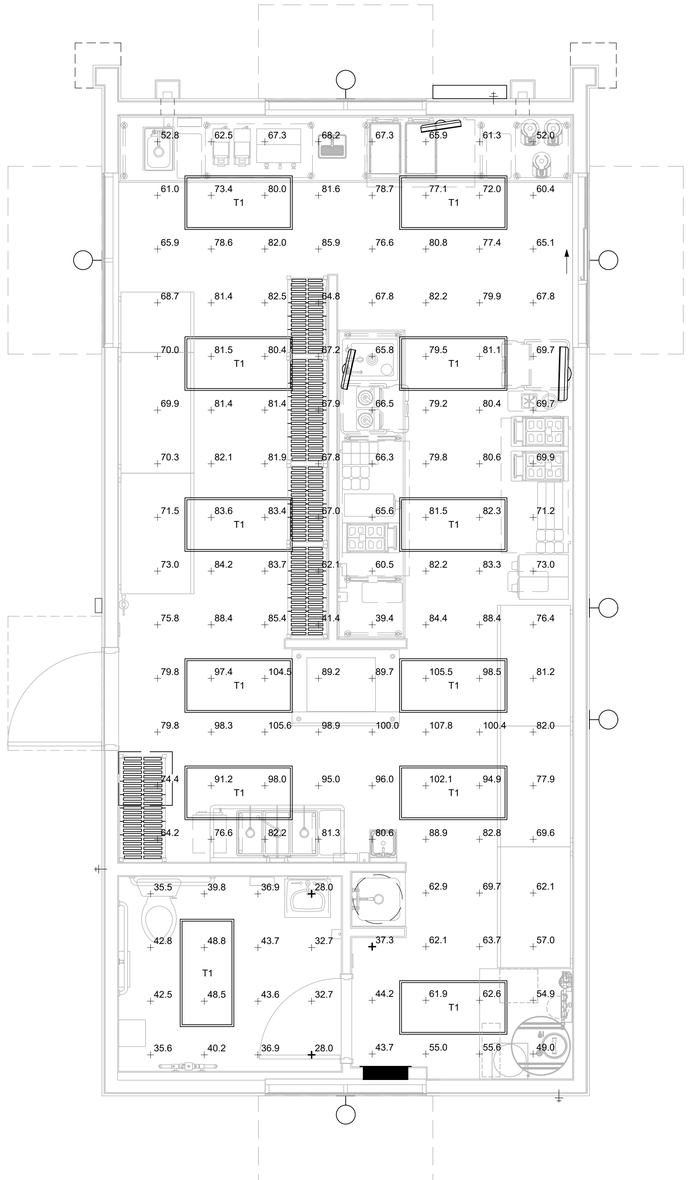
NOTE: LIGHTING CALCULATIONS ARE PERFORMED WITH A LIGHT LOSS FACTOR OF 1.00.

LIGHTING FIXTURE SCHEDULE

SEE LIGHTING FIXTURE SCHEDULE ON SHEET E2.1 FOR ADDITIONAL INFORMATION.

STATISTICS (@ 36" A.F.F.)

DESCRIPTION	AVERAGE (FC)	MAXIMUM (FC)	MINIMUM (FC)	MAXIMUM: MINIMUM	AVERAGE: MINIMUM
RESTROOM	38.5	48.8	28.0	1.7:1.0	1.4:1.0
INTERIOR	75.5	107.8	37.3	2.9:1.0	2.0:1.0



1 INTERIOR LIGHTING PHOTOMETRIC PLAN
SCALE: 3/8" = 1'-0"

REGISTRATION SEAL
NORTH CAROLINA PROFESSIONAL SEAL 035265 ENGINEER ROBERT L. QUEATHEM
4/16/25

ROBERT L. QUEATHEM
ENGINEER
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
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TITLE:
INTERIOR LIGHTING PHOTOMETRIC PLAN

PROJECT ADDRESS:
130 BRANDYWOOD CT.
CAMERON, NC 28326

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2294
PROUD TO SERVE, LLC

KIOSK PROTOTYPE:
4.2 REVERSE PROTOTYPE
JUNE 2024
ISSUE DATE:
03/21/2024
PROJECT NO.
240761
DRAWN BY:
BPA
CHECKED BY:
SAH

SHEET NO.
E3.2

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP

Date: 04/15/2025

To: Harnett County – Development Services
420 McKinney Parkway, Lillington, NC 27546
Phone: (910) 814-6431

Subject: Scooters Coffee – 130 Brandywood Court

To Whom it May Concern:

In regard to comments that we received on April 8th, 2025, from reviewers, please see our responses below.

Building

1. Harnett County is energy zone 4. Provide updated Comcheck and trade energy calculations.
   Response: please see revised COMcheck. COMcheck software does not allow us to use the specific 2018 NC Energy Code, per section C401.2 Commercial building can comply with 2016 ASHRAE 90.1 which is what this revised COMcheck is calculated under. In the COMcheck software the energy zone is automatically assigned when the city and state are chosen. The 2016 ASHRAE 90.1 lists Harnett County as Energy Zone 3A. however all calculations in the COMcheck are compliant with zone 4A and meet all minimum criteria to pass under a 4A zone.

Sincerely,

Joanie Godsey

Joanie Godsey
Permitting Associate