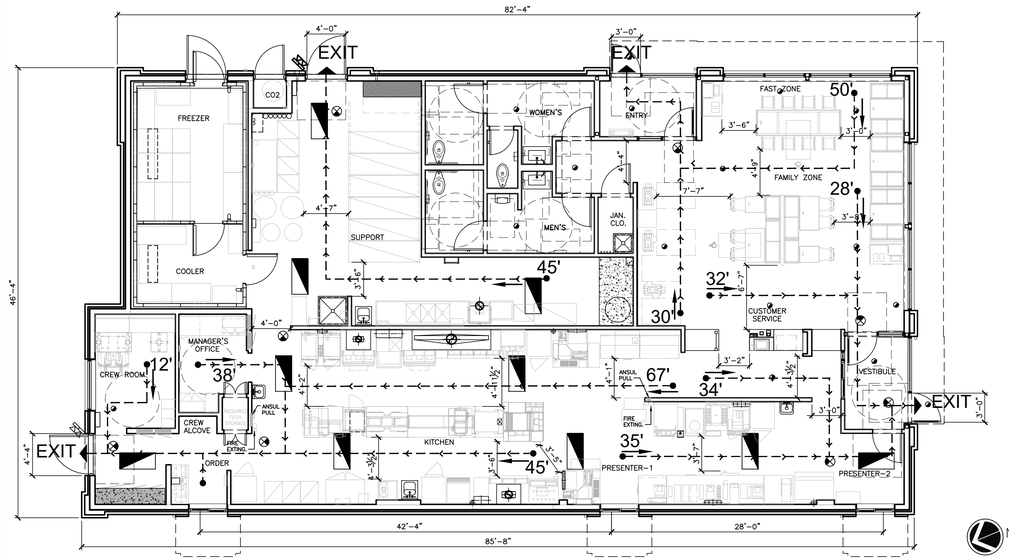



| LIMITS FOR NON-SPRINKLERED BUILDINGS | | | |
|---|---|---|---|
| TYPE OF OCCUPANT | COMMON PATH | DEAD END | TRAVEL DISTANCE LIMIT |
| ASSEMBLY | 30' | 20' | 200' |

EGRESS WIDTH PER OCCUPANT (SECTION 1005.3.2)

| FLOOR, ROOM OR SPACE DESIGNATION | (a) OCCUPANT LOAD | (b) EGRESS WIDTH PER OCCUPANT | EXIT WIDTH (in.) REQUIRED WIDTH (axb) | EXIT WIDTH (in.) ACTUAL WIDTH SHOWN ON PLANS |
|---|---|---|---|---|
| GROUND FLOOR | 79 | 0.2 | 15.8" | 156" |

4584-WW
32 SEATS (2 ACCESSIBLE SEATS)

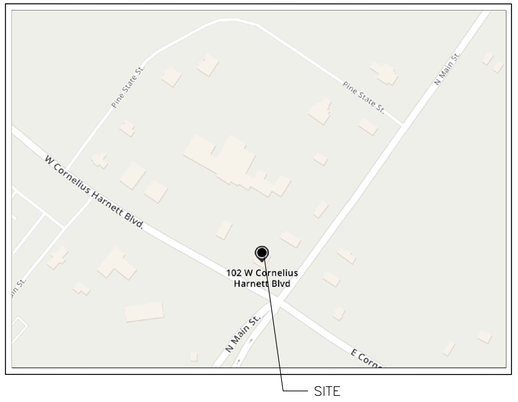
LIFE SAFETY LEGEND:
- EMERGENCY LIGHTING FIXTURES SHOWN HALF SHADED
- EXIT SIGN
- START POINT OF PATH OF TRAVEL
- EXIT DISCHARGE
- EXIT TRAVEL
- TRAVEL DISTANCE

## OCCUPANCY ALLOWANCE:

2018 NC BUILDING CODE
BASED ON 2015 IBC W/ AMENDMENTS

TABLE 1004.1.2
MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

| FUNCTION OF SPACE | ALLOWANCE | AREA | OCCUPANTS |
|---|---|---|---|
| ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM | 300 GROSS | 580 SF | 2 |
| ASSEMBLY WITH FIXED SEATS | SEE PLAN | – | 32 |
| STANDING SPACE | 5 NET | 150 SF | 30 |
| BUSINESS AREAS | 100 GROSS | 66 SF | 1 |
| KITCHENS, COMMERCIAL (BASED ON FULL KITCHEN STAFF) | 200 GROSS | – | 14 |
| TOTAL OCCUPANCY ALLOWANCE | | | 79 |




LOCATION MAP: NORTH

# 2024 4584-WW BUILDING BB20
# BETHESDA FIELD OFFICE

## BUILDING INFORMATION:

### ADDRESS:

| | |
|---|---|
| STATE SITE CODE: | 032-0312 |
| STREET ADDRESS: | 102 W CORNELIUS HARNETT BLVD |
| CITY: | LILLINGTON |
| COUNTY: | HARNETT |
| STATE: | NORTH CAROLINA |

### STRUCTURE:
WOOD LOAD BEARING WALLS, WOOD ROOF FRAMING

### UTILITIES:
ELECTRIC GRILLS & GAS FRYERS
GAS HVAC & GAS WATER HEATER

### BUILDING CODE:

| | |
|---|---|
| BUILDING CODE EDITION: | 2018 NORTH CAROLINA BUILDING CODE BASED ON 2015 IBC W/ AMENDMENTS |
| MECHANICAL CODE EDITION: | 2018 NORTH CAROLINA MECHANICAL CODE BASED ON 2015 IMC W/ AMENDMENTS |
| ELECTRICAL CODE EDITION: | 2020 NATIONAL ELECTRICAL CODE |
| PLUMBING CODE EDITION: | 2018 NORTH CAROLINA PLUMBING CODE BASED ON 2015 IPC W/ AMENDMENTS |
| ENERGY CODE EDITION: | 2018 NORTH CAROLINA ENERGY CONSERVATION CODE BASED ON 2015 IECC W/ AMENDMENTS |
| FIRE CODE EDITION: | 2018 NORTH CAROLINA FIRE PREVENTION CODE BASED ON 2015 IFC W/ AMENDMENTS |
| ACCESSIBILITY CODE EDITION: | 2009 ANSI 117.1 |

### BUILDING DATA:

| | |
|---|---|
| OCCUPANCY: | USE GROUP A2 |
| CONSTRUCTION TYPE: | VB |
| NUMBER OF STORIES: | 1 |
| BUILDING HEIGHT: | 22'-1 1/2" (MAIN BLDG. PARAPET) |
| BASE BUILDING GROSS AREA: | 3,820 S.F. |
| BUILDING FIRE AREA: | 3,547 S.F. |

### DESIGN LOADS:

| | |
|---|---|
| GROUND SNOW LOAD: | 15 PSF |
| WIND SPEED: | 117 MPH (EXPOSURE C) |
| SEISMIC DESIGN CATEGORY: | B |
| SOIL BEARING CAPACITIES: | 3000 PSF |

### LIFE SAFETY SYSTEM:

| | | |
|---|---|---|
| EMERGENCY LIGHTING: | X YES | NO |
| EXIT SIGNS: | X YES | NO |
| FIRE ALARM: | YES | X NO |
| DUCT SMOKE DETECTORS W/ AUDIBULE/VISIBLE DEVICE: | X YES | NO |
| FIRE SPRINKLERS: | YES | X NO |
| SPRINKLER FLOW/TAMPER SWITCH W/ AUDIBLE/VISIBLE DEVICE: | YES | X NO |
| CO2 DETECTION SYSTEM W/ AUDIBLE/VISIBLE DEVICE: | X YES | NO |
| PANIC HARDWARE: | X YES | NO |

## DESIGNER OF RECORD

| DISCIPLINE: | NAME: | ADDRESS: | LICENSE # |
|---|---|---|---|
| ARCHITECT: | AECOM ABIGAIL BENJAMIN | 300 Broadacres Drive, Suite 250 Bloomfield, NJ, 07003 | RA16243 |
| STRUCTURAL: | AECOM AHMED MOSTAFA | 300 Broadacres Drive, Suite 250 Bloomfield, NJ, 07003 | PE052352 |
| MECHANICAL: | AECOM FARUK APAYDIN | 300 Broadacres Drive, Suite 250 Bloomfield, NJ, 07003 | PE054558 |
| PLUMBING: | AECOM FARUK APAYDIN | 300 Broadacres Drive, Suite 250 Bloomfield, NJ, 07003 | PE054558 |
| ELECTRICAL: | AECOM FARUK APAYDIN | 300 Broadacres Drive, Suite 250 Bloomfield, NJ, 07003 | PE054558 |

| AECOM CONTACT: | NAME: | ADDRESS: | PHONE # |
|---|---|---|---|
| | AARON SMITH | 300 Broadacres Drive, Suite 250 Bloomfield, NJ, 07003 | (973) 883-8669 email: aaron.c.smith@aecom.com |

## McDONALD'S CONSTRUCTION PROJECT MANAGER

| MANAGER: | NAME: | ADDRESS: | PHONE # |
|---|---|---|---|
| | EILEEN SEEBURGER | Area Construction Manger McDonald's | (215) 206-5386 |

REVISIONS

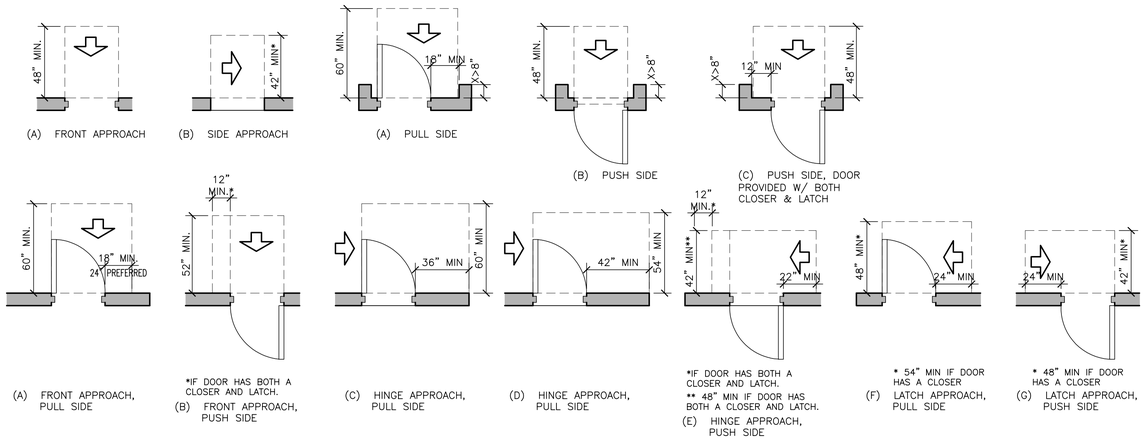
| | | |

U.S. Restaurant Development Supplier Directory

| Product Category | Supplier | Order Placement | Technical Assistance | Supplier Liaison | Direct Phone | Email | Geography | GSSS Purchase | O/O Purchase | GC Purchase |
|---|---|---|---|---|---|---|---|---|---|---|
| **Aluminum Composite Material Panels** | Alpolic | 757-286-1005 | | Dave Kearney | | dave_kearney@m-chem.com | | | | |
| **Artwork & Graphics** | Vomela | 865-330-7337 | 865-330-7337 | Ann Bowen | 865-330-7337 | ann.bowen@vomela.com | | | | X |
| | GFX | 847-543-4600 | | | | mcdonaldsdecor@gfxi.com | | | | |
| **Battens** | B + N | jkatterhagen@bnind.com plucchesi@bnind.com | 253-709-1508 | Joel Katterhagen Pirkko Lucchesi | 253-709-1508 | jkatterhagen@bnind.com plucchesi@bnind.com | Atlanta, Bethesda, Chicago, Columbus, Stamford | X | | |
| | Tubelite | kbaumann@tubeliteinc.com; | 214-399-5910 | Kent Baumann | (214) 399-5910 | kbaumann@tubeliteinc.com | Dallas, Denver, Long Beach, Nashville, Walnut Creek | X | | |
| **Building Automation Systems** | Carrier | | McD@CCBAC.com | | | | | | | |
| | Trane | | McDcontrols@Trane.com | | | | | | | |
| **Ceiling Tile / Grid** | Acoustical Surfaces Inc. | mike@acousticalsurfaces.com | 800-913-9395 | Mike Mohs | 612-719-7920 | mike@acousticalsurfaces.com | | | | X |
| | USG | Jon Funes | jfunes@usg.com | Jon Funes | 312-436-5841 | jfunes@usg.com | | | | X |
| **Door Hardware** | Universal Manufacturing Co. | hal@umco.net | | Hal Lawrence | | | | | | |
| **Drive-Thru Windows** | Ready Access | 800-621-5045 | 630-876-7766 | Anna Ellis | 800-621-5045 x120 | anna@ready-access.com | | X (Kitchen & Exterior) | | X (Dining) |
| **Electrical Distribution (Switchgear)** | Schneider Electric-Square D Compa | 630-671-6304 (Graybar) | 630-671-6304 (Graybar) | Marc DiCicco | 615-594-8647 | marc.dicicco@schneider-electric.com | | | | X |
| **Exhaust Fans** | Greenheck (also dba Accurex) | 888-325-6529 | 888-325-6529 | Brian Rivet | 715-571-6462 | brian.rivet@accurex.com | | X | | |
| **FRP** | Panolam | 866-925-4377 | | Kim Lawson | | Kimberly_Lawson@panolam.com | | | | |
| **Grease Interceptors** | Green Turtle | 407-244-7918 | 407-244-7918 | Lee Flasher | 407-509-7626 | lee.flasher@hughessupply.com | | X | | |
| | Schier Products | | | | | | | X | | |
| **HVAC Units** | Lennox Industries | 800-367-6285 x5491 | 800-367-6285 | Razi Dole | 614-886-0719 | Razi.dole@lennoxind.com | Atlanta, Chicago, Columbus, Dallas, Nashville | | | X |
| | Trane | 630-734-3200 x6057 | 630-734-3200 | Lauri Frankowski | 630-400-4285 | lfrankowski@trane.com | Bethesda, Denver, Long Beach, Stamford, Walnut Cre | | | X |
| | Carrier | | | | | | | | | |
| **Kitchen Equipment Supplier (KES)** | HKI | | | | | | | | | |
| | FRANKE | | | | | | | | | |
| **Laminates** | Decotone | 908-301-0600 | 908-301-0600 | Drew Diamond | 908-301-0600 | drew@decotonesurfaces.com | | | | X |
| | Formica | 773-209-6400 | 773-209-6400 | Mindy Sinzheimer | 773-209-6400 | mindy.sinzheimer@formica.com | | | | X |
| | Wilsonart | 720-346-4538 | 720-346-4538 | Brynn Bishop | 720-346-4538 | brynn.bishop@wilsonart.com | | | | X |
| **Lighting** | CS Illumination | mcd@csillumination.com | 760-477-1244 Ext. 1157 | Julie Giesne | 206-455-5666 | jgiesne@csillumination.com | | | | x |
| | Security Lighting | slorders@securitylighting.com | customerservice@securitylighting.co | Dave Levinson | 847-274-5812 | dlevinson@securitylighting.com | | X | | X |
| **Metal Packaging (Coping & Metal Reveal Panels)** | Metal-Era | 800-558-2162 | 800-558-2162 | Brad Van Dam | 800-558-2162 | brad.vandam@metalera.com | | X | | |
| **ODMB Distribution** | Suddath | 904-858-1234 x7558 | 904-858-1234 x7558 | Tom Ruede | 904-229-5234 | truede@suddath.com | | | | X |
| **Pedimats** | Construction Specialties | 888-424-6287 | | | | nationalaccounts@c-sgroup.com | | | | |
| **Playplace Equipment** | Kidzpace | 855-509-9990 | 800-668-0206 x231 | Derik Stockdale | 705-441-6942 | derik@kidzpace.com | | | X | |
| | Nuneirin | 601-944-0023 | 601-944-0023 | Erin Hayne | 601-540-5513 | erin@nuneirin.com | | | X | |
| | Playtime | 303-962-7606 | 303-962-7606 | Jennifer Dallmann | 720-299-8705 | Jennifer@playtime.com | | | X | |
| | Soft Play, LLC | 800-782-7529 (New Unit) 800-782-293 | 704-948-3430 | Brock Hodge | 704-948-3430 | brock.hodge@softplay.com | | | X | |
| **Plumbing & Restroom Fixtures and Accessories** | Hughes Supply | 407-244-7918 | 407-244-7918 | Lee Flasher | 407-509-7626 | lee.flasher@hughessupply.com | | X | | X |
| **RMHC Pass-Thru Coin Collector** | 888-743-7435 | | | | | | | | | |
| **Roofing** | DuroLast | | | | | | | | | |
| | Johns Manville | 866-235-6838 | 866-235-6838 | Joe Dugo | 904-495-1649 | Joe.DugoJr@jm.com | | | | X |
| **Seating & Décor (Interior & Exterior)** | Elkay | 800-337-8373 | 800-337-8373 | Taylor Johnson | 414-208-8681 | taylor.johnson@elkay.com | Atlanta, Bethesda, Chicago, Columbus, Nashville | | X | |
| | JBI | 310-667-5600 | 267-278-3762 | Joseph R. Parisi | 267-278-3762 | jrparisi@jbi-interiors.com | Denver, Dallas, Long Beach, Stamford, Walnut Creek | | X | |
| **Signage, White Fascia & LED Lighting** | Everbrite | 888-857-4078 | 888-857-4078 | Christine Schoenike | 414-768-5474 | cschoenike@everbrite.com | Atlanta, Bethesda, Chicago, Columbus, Nashville | X | | |
| | Persona | 605-882-2244 | 605-878-2430 | Mike Peterson | 605-868-2356 | mpeterson@personasigns.com | Denver, Dallas, Long Beach, Stamford, Walnut Creek | | X | |
| **Signage, ADA Package** | FRANKE/S2K | 800-423-5247 | | www.frankesupply.com | | fs-frankesupply.us@franke.com | | | | |
| **Solid Surfaces** | Dupont Surfaces | 847-910-8546 | 612-819-8751 | Erin Fairfield | 612-499-4875 | erin.michelle.fairfield@dupont.com | | | X | |
| **Tile** | Crossville Tile | thale@crossville.com | 931-456-3997 | Dennis Hopkins | 704-576-4953 | dhopkins@crossvilleinc.com | | | | X |
| | Eurowest | mcd@eurowest.com | 714-224-5810 | Jan Deter | 714-309-9551 | jdeter@eurowest.com | | | | X |
| **Trellis/ Louvers** | All-Lite | 817-509-2300 | | | | www.alllite.com | | | | |
| | AWNEX, Inc. | 770-704-7140 x119 | 770-704-7140 x119 | Trey Herndon | 770-704-7140 x113 | trey@awnexinc.com | Atlanta, Bethesda, Denver, Nashville | X | | |
| | Greenheck | 715-355-6677 | 715-355-6677 | Gary W. Macdonald | 715-841-8523 | gary.macdonald@greenheck.com | Chicago, Stamford, Walnut Creek | X | | |
| | PCI Industries | mcd.orders@pci-industries.com | 817-509-2300 | Alexa Roden | 817-509-1085 | aroden@pottorff.com | Columbus, Dallas, Long Beach | X | | |
| **Wood Trusses& Joists** | RedBuilt, LLC | East: 614-270-6919 West: 310-995-405 | 208-272-0494 | David Thompson | 614-264-0712 | dthompson@redbuilt.com | | X | | |

# ADA GUIDELINES
## GENERAL REQUIREMENTS

NOTE:
GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL APPLICABLE LOCAL ACCESSIBILITY STANDARDS AND REFER TO McDONALD'S ACCESSIBILITY DESIGN GUIDELINES.




(A) FRONT APPROACH
(B) SIDE APPROACH
(A) PULL SIDE
(B) PUSH SIDE
(C) PUSH SIDE, DOOR PROVIDED W/ BOTH CLOSER & LATCH
(A) FRONT APPROACH, PULL SIDE
*IF DOOR HAS BOTH A CLOSER AND LATCH.
(B) FRONT APPROACH, PUSH SIDE
(C) HINGE APPROACH, PULL SIDE
(D) HINGE APPROACH, PULL SIDE
*IF DOOR HAS BOTH A CLOSER AND LATCH.
** 48" MIN IF DOOR HAS BOTH A CLOSER AND LATCH.
(E) HINGE APPROACH, PUSH SIDE
* 54" MIN IF DOOR HAS A CLOSER
(F) LATCH APPROACH, PULL SIDE
* 48" MIN IF DOOR HAS A CLOSER
(G) LATCH APPROACH, PUSH SIDE

1 GN1.0 **MANEUVERING CLEARANCE AT DOORS & DOORWAYS**
1/4" = 1'-0"

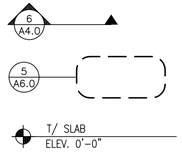
# ABBREVIATIONS
## GENERAL ABBREVIATIONS

| | |
|---|---|
| A | ANNEALED |
| AC | AIR CONDITIONING |
| ACT | ACOUSTIC CEILING TILE |
| AFF | ABOVE FINISH FLOOR |
| AHU | AIR HANDLING UNIT |
| AL | ALUMINUM |
| ASPH | ASPHALT |
| CJ | CONTROL JOINT |
| CLNG | CEILING |
| CMU | CONCRETE MASONRY UNIT |
| COL | COLUMN |
| CONC | CONCRETE |
| CONT | CONTINUOUS |
| CP | CONCRETE PAD |
| CT | CERAMIC TILE |
| CL | CENTERLINE |
| DBL | DOUBLE |
| DF | DRINKING FOUNTAIN |
| DIA | DIAMETER |
| DIM | DIMENSION |
| DN | DOWN |
| DS | DOWNSPOUT |
| EA | EACH |
| EJ | EXPANSION JOINT |
| ELEC | ELECTRICAL |
| ELEV | ELEVATION |
| EQ | EQUAL |
| EXIST | EXISTING |
| FD | FLOOR DRAIN |
| FE | FIRE EXTINGUISHER |
| FEC | FIRE EXTINGUISHER CABINET |
| FF | FINISH FLOOR |
| FR | FIRE RATED |
| FRP | FIBERGLASS REINFORCED PLASTIC |
| GALV | GALVANIZED |
| GYP BD | GYPSUM BOARD |
| HC | HANDICAP |
| HDW | HARDWARE |
| HM | HOLLOW METAL |
| HT | HEIGHT |
| HVAC | HEATING, VENTILATION, AIR CONDITIONING |
| INSUL | INSULATION |
| MAX | MAXIMUM |
| MECH | MECHANICAL |
| MFR | MANUFACTURER |
| MIN | MINIMUM |
| MO | MASONRY OPENING |
| MR | MOISTURE RESISTANT |
| MTL | METAL |
| NA | NOT APPLICABLE |
| NIC | NOT IN CONTRACT |
| NOM | NOMINAL |
| NTS | NOT TO SCALE |
| OC | ON CENTER |
| OPP | OPPOSITE |
| OPT | OPTIONAL |
| PAR | PARTIAL |
| PF | PRE-FABRICATED |
| PSF | POUNDS PER SQUARE FOOT |
| PT | PRESSURE TREATED |
| PTD | PAINTED |
| QT | QUARRY TILE |
| R | RADIUS |
| REBAR | REINFORCING BAR |
| REF | REFERENCE |
| REQD. | REQUIRED |
| RO | ROUGH OPENING |
| SB | SPLASHBLOCK |
| SIM | SIMILAR |
| SPEC | SPECIFICATION |
| SS | STAINLESS STEEL |
| STL | STEEL |
| STOR | STORAGE |
| SUSP | SUSPENDED |
| T | TEMPERED |
| TYP | TYPICAL |
| UNO | UNLESS NOTED OTHERWISE |
| VCT | VINYL COMPOSITION TILE |
| VERT | VERTICAL |
| WD | WOOD |
| WP | WATERPROOF |
| WWF | WELDED WIRE FABRIC |

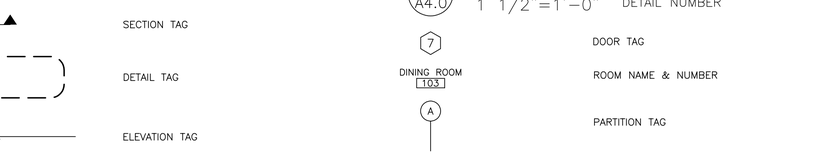
## McDONALD'S ABBREVIATIONS

| | |
|---|---|
| AP | ALPOLIC METAL PANEL |
| BM | BRAKE METAL |
| C | ALUMINUM CANOPY |
| CG | CORNER GUARD |
| CT | WALL TILE |
| DE | DECOR ELEMENT |
| DF | DECOR FINISH |
| DEVICE | |
| DMB | DIGITAL MENU BOARD |
| DS | DROP SOFFIT |
| D/T | DRIVE-THRU |
| FB | FILL BOX |
| F/C | FREEZER/COOLER |
| GC | GENERAL CONTRACTOR |
| HP | HIGH POINT |
| KIOSK | |
| L | LIGHT FIXTURE |
| LAM | LAMINATE |
| LE | ACCENT LIGHTING |
| LP | LOW POINT |
| LL | LEVEL LANDING |
| MACHINE | |
| MANAGER | |
| MF | METAL FASCIA |
| MS | MOP SINK |
| PB | PIPE BOLLARD |
| PT | RMHC COIN COLLECTOR |
| RL | ROOF LADDER |
| ROOM | |
| S | McDONALD'S SIGNAGE |
| SCH | SCHLUTER |
| UN | ALUMINUM CANOPY UNDERSCORE |

# SYMBOL LEGEND:

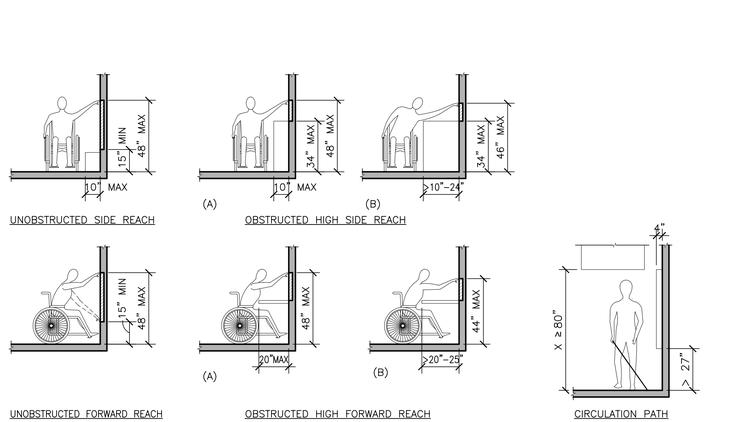



SECTION TAG
DETAIL TAG
ELEVATION TAG




# GENERAL NOTES

1. ALL WORK SHALL BE IN COMPLIANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL BUILDING CODES, REGULATIONS, ORDINANCES AND STANDARDS INCLUDING ADA AND OR OTHER HANDICAP ACCESSIBILITY CODES.
2. GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE OWNER'S VENDORS REGARDING SCHEDULING ON SITE DURING CONSTRUCTION AND SEQUENCING OF THE WORK.
3. THE CONSTRUCTION NOTES AND DRAWINGS ARE SUPPLIED TO ILLUSTRATE THE DESIGN INTENT AND GENERAL TYPE OF CONSTRUCTION DESIRED AND ARE INTENDED TO IMPLY THE FINEST QUALITY OF CONSTRUCTION, MATERIAL AND WORKMANSHIP THROUGHOUT.
4. THE DRAWINGS ARE NOT TO BE SCALED. FOR INFORMATION CONCERNING EXISTING CONDITIONS, ETC., VERIFICATION MUST BE DONE IN THE FIELD. LARGE SCALE DRAWINGS HAVE PRECEDENCE OVER SMALL SCALE DRAWINGS.
5. PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION, CONTRACTOR SHALL VERIFY EXISTENCE AND LOCATION OF ALL EXISTING ABOVE AND BELOW GRADE, UTILITIES, INCLUDING SANITARY SEWER, STORM SEWER, WATER, GAS, ELECTRICAL, TELEPHONE, ETC. ANY DISCREPANCIES IN UTILITY LOCATIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT.
6. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL BUILDING DIMENSIONS PRIOR TO BEGINNING CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY VARIANCE OR DISCREPANCY AFFECTING NEW CONSTRUCTION PRIOR TO PROCEEDING WITH WORK.
7. CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING IN WALLS FOR SUPPORT OF ALL EQUIPMENT, SHELVING, ACCESSORIES, SIGNAGE, AND OTHER DEVICES REQUIRED.
8. ALL PENETRATIONS SHALL RECEIVE CAULKING TO SEAL ANY TYPE OF ENERGY LOSS.
9. THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL APPLICABLE DIMENSIONS OF FIXTURES AND EQUIPMENT SUPPLIED AND/OR INSTALLED BY OTHERS.
10. UPON COMPLETION OF PROJECT, G.C. TO OBTAIN ALL FINAL INSPECTIONS AS REQUIRED BY LOCAL JURISDICTIONS AND FURNISH OWNER WITH EVIDENCE OF ALL SUCH INSPECTIONS AND CERTIFICATES OF OCCUPANCY.
11. SIGNS, UNLESS NOTED OTHERWISE, ARE PROVIDED BY OWNER'S SIGN CONTRACTOR. OWNER'S SIGN VENDOR WILL PROVIDE MONUMENT SIGN BASE (CONCRETE, STONE, BRICK, ETC.) IF PROJECT REQUIRES DECORATIVE BASE. SEE SHEET L-1 TO VERIFY IF REQUIRED. GENERAL CONTRACTOR TO PROVIDE ROUGH-IN & FINAL CONNECTION AND BRAILLE EXIT SIGN.
12. GENERAL CONTRACTOR TO PROVIDE FOUR (4) 30 YARD DUMPSTERS DURING McDONALD RETAIL MOVE-IN.
13. GENERAL CONTRACTOR SHALL PROVIDE ONE SKILLED LABORER FOR ONE WEEK DURING McDONALD RETAIL MOVE-IN. (40 HOURS)
14. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SET-UP AND COORDINATION OF ALL THE UTILITY SERVICES FOR THE PROJECT.
15. ALL EXTERIOR FLOOR PLAN DIMENSIONS ARE TO EXTERIOR FACE OF MASONRY UNLESS OTHERWISE NOTED. ALL INTERIOR FLOOR PLAN DIMENSIONS ARE TO FACE OF FINISH UNLESS OTHERWISE NOTED.
16. FINAL KEYING TO BE COORDINATED WITH McDONALD FACILITY MANAGER AND PAID FOR BY McDONALD.
17. REFER TO "PROJECT MANUAL" FOR ALL OTHER INSTRUCTIONS & DIRECTIVES NOT SHOWN IN DRAWINGS. IF THERE IS A CONFLICT BETWEEN THE DRAWINGS AND PROJECT MANUAL, NOTIFY THE AREA CONSTRUCTION MANAGER FOR RESOLUTION.




2 GN1.0 **ACCESSIBLE REACH & CIRCULATION PATH**
1/4" = 1'-0"

| REV | DATE | DESCRIPTION |
|---|---|---|
| | | |

DATE:


PREPARED BY:
AECOM
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ARCHITECTURE
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Lexington, NC 27292
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F (973) 883 8500



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PREPARED FOR:
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DRAWN BY: AT
STD ISSUE DATE: 2023 11
REVIEWED BY: GA
DATE ISSUED: 9/6/2024

TITLE:
2024 STANDARD BUILDING - BB20
4584-WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
BRICK / ALPOLIC PANEL

NSN: 10721
L/C: 032-0312

SITE ADDRESS:
102 W CORNELIUS HARNETT BLVD
LILLINGTON, NC

SHEET NO.
032-0312.00.0
GN1.1
GENERAL NOTES

# 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: MCDONALD'S RESTAURANT ( SITE ID: 032-0312)

Address: 102 W Cornelius Harnett Blvd, Lillington, NC Zip Code 27546

Owner/Authorized Agent: Eileen Seeburger Phone # ( 215 ) 206 - 5386 E-Mail eileen.seeburger@us.mcd.com

Owned By: ☐ City/County ☒ Private ☐ State

Code Enforcement Jurisdiction: ☒ City Lillington ☐ County_____ ☐ State

**CONTACT:** _____

| DESIGNER | FIRM | NAME | LICENSE # | TELEPHONE # | E-MAIL |
|---|---|---|---|---|---|
| Architectural | AECOM | ABIGAIL BENJAMIN | RA16243 | ( 973 ) 883-8570 | abigail.benjamin@aecom.com |
| Civil | | | | ( ) | |
| Electrical | AECOM | FARUK APAYDIN | PE054558 | ( 973 ) 883-8668 | faruk.apaydin@aecom.com |
| Fire Alarm | TBD | | | ( ) | |
| Plumbing | AECOM | FARUK APAYDIN | PE054558 | ( 973 ) 883-8668 | faruk.apaydin@aecom.com |
| Mechanical | AECOM | FARUK APAYDIN | PE054558 | ( 973 ) 883-8668 | faruk.apaydin@aecom.com |
| Sprinkler-Standpipe | | | | ( ) | |
| Structural | AECOM | Ahmed Mostafa | PE052352 | ( 571 ) 267-0771 | ahmed.mostafa@aecom.com |
| Retaining Walls >5' High | N/A | | | ( ) | |
| 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) _____ **CURRENT OCCUPANCY(S)** (Ch. 3): _____

**RENOVATED:** (date) _____ **PROPOSED OCCUPANCY(S)** (Ch. 3): _____

**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 | | | |
| 2nd Floor | | | |
| Mezzanine | | | |
| 1st Floor | | 3,820 ( SQ FT) | |
| Basement | | | |
| TOTAL | | 3,820 S.F. (GROSS FOOTPRINT)<br>3,547 S.F. (NET FIRE AREA) | |

## 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 | RESTAURANT | 3,820 S.F. | 6,000 S.F. | | 6,000 S.F. |
| | | | | | |
| | | | | | |
| | | | | | |

[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 $I_f = 100[F/P - 0.25] \times W/30$ = _____ (%)

[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' | 22'-1 1/2" | TABLE 504.3 |
| Building Height in Stories (Table 504.4) [3] | 1 | 1 STORY | TABLE 504.4 |

[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 | >30 FT | 0 | 0 | | | | |
| Exterior | >30 FT | 0 | 0 | | | | |
| North | >30 FT | 0 | 0 | | | | |
| East | >30 FT | 0 | 0 | | | | |
| West | >30 FT | 0 | 0 | | | | |
| South | >30 FT | 0 | 0 | | | | |
| Interior | | | | | | | |
| Nonbearing Walls and Partitions Exterior walls | | | | | | | |
| North | >30 FT | 0 | 0 | | | | |
| East | >30 FT | 0 | 0 | | | | |
| West | >30 FT | 0 | 0 | | | | |
| South | >30 FT | 0 | 0 | | | | |
| Interior walls and partitions | | | | | | | |
| Floor Construction Including supporting beams and joists | N/A | 0 | SLAB ON GRADE | | | | |
| Floor Ceiling Assembly | N/A | 0 | 0 | | | | |
| Columns Supporting Floors | N/A | N/A | N/A | | | | |
| Roof Construction, including supporting beams and joists | N/A | N/A | N/A | | | | |
| Roof Ceiling Assembly | N/A | N/A | N/A | | | | |
| Columns Supporting Roof | N/A | N/A | N/A | | | | |
| Shaft Enclosures - Exit | N/A | N/A | N/A | | | | |
| Shaft Enclosures - Other | N/A | N/A | N/A | | | | |
| Corridor Separation | N/A | N/A | N/A | | | | |
| 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 (%) |
|---|---|---|---|
| | | | |
| | | | |
| | | | |

## LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: ☐ No ☒ Yes
Exit Signs: ☐ No ☒ Yes
Fire Alarm: ☒ No ☐ Yes (SMOKE DETECTION IN HVAC)
Smoke Detection Systems: ☐ No ☒ Yes ☐ Partial (SMOKE DETECTION IN HVAC)
Carbon Monoxide Detection: ☐ No ☒ Yes

## LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: GN1.0 Cover 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 | |
| | | | | | |
| | | | | | |
| | | | | | |
| TOTAL | | | | | |

## 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 | 2 | | 1 | 1 | 1 | | | | |
| | REQ'D | 1 | 1 | | 0 | 1 | 1 | | | | |

## SPECIAL APPROVALS

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

_____

_____



PROJECT No. 60734777 Task: 032-0312

DATE: ..... | REV | DATE | DESCRIPTION

PREPARED BY:
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ARCHITECTURE
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Clayton, NC 27520
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DRAWN BY: HM
STD ISSUE DATE: 2023 11
REVIEWED BY: GA
DATE ISSUED: 9/6/2024

TITLE: 2024 STANDARD BUILDING – BB20
4584–WOOD/WOOD
DESCRIPTION
WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & CI
WOOD TRUSS ROOF FRAMING
BRICK/ ALPOLIC PANEL
NSN: 10721
L/C: 032-0312
SITE ADDRESS
102 W CORNELIUS HARNETT BLVD
LILLINGTON, NC

SHEET NO.
032–0332.00.0
GN1.2
APPENDIX B

## 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: SINGLE PLY ROOF ON RIGID INSULATION
U-Value of total assembly: 0.032 (BTU/HR -FT² x F)
R-Value of insulation: R-30
Skylights in each assembly: NONE
U-Value of skylight:
total square footage of skylights in each assembly:

**Exterior Walls** (each assembly)
Description of assembly: BRICK FINISH AND ALPOLIC METAL PANEL OVER 2 X 6 WOOD FRAMING FILLED WITH INSULATION
U-Value of total assembly: 0.064 (BTU/HR -FT² x F)
R-Value of insulation: R-21 + R-3.8
Openings (windows or doors with glazing)
U-Value of assembly: 0.38 (BTU/HR -Ft2 x DF)
Solar heat gain coefficient: 0.22
projection factor: 0.40
Door R-Values: 0.77

**Walls below grade** (each assembly)
Description of assembly: NONE
U-Value of total assembly:
R-Value of insulation:

**Floors over unconditioned space** (each assembly)
Description of assembly: NONE
U-Value of total assembly:
R-Value of insulation:

**Floors slab on grade**
Description of assembly: 5" CONCRETE FLOOR SLAB ON 4" COMPECTED STONE BASE
U-Value of total assembly:
R-Value of insulation: R-15
Horizontal/vertical requirement: 2' MIN.
slab heated: NO



## 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 115 psf

**Ground Snow Load:** 15 psf

**Wind Load:** Ultimate Wind Speed 115 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** $S_S$ 0.161 %g $S_1$ 0.085 %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) 3,000 psf
Presumptive Bearing capacity N/A psf
Pile size, type, and capacity 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: 22 F
summer dry bulb: 96 F

**Interior design conditions**
winter dry bulb: 70 F
summer dry bulb: 74 F
relative humidity: 50 %

**Building heating load:** 454,000 BTUH

**Building cooling load:** 504,000 BTUH

**Mechanical Spacing Conditioning System**
Unitary

| description of unit: | RTU-1 | RTU-2 | RTU-3 |
|---|---|---|---|
| heating efficiency: | 80% | 80% | 80% |
| cooling efficiency: | 11.0 EER | 15.0 SEER | 12.0 EER |
| size category of unit: | 20 TON | 5 TON | 15 TON |

Boiler
Size category. If oversized, state reason.: NONE
Chiller
Size category. If oversized, state reason.: NONE

**List equipment efficiencies:**



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

### ELECTRICAL SUMMARY

**ELECTRICAL SYSTEM AND EQUIPMENT**

**Method of Compliance:** Energy Code ☐ Performance ■ Prescriptive
ASHRAE 90.1 ☐ Performance ☐ Prescriptive

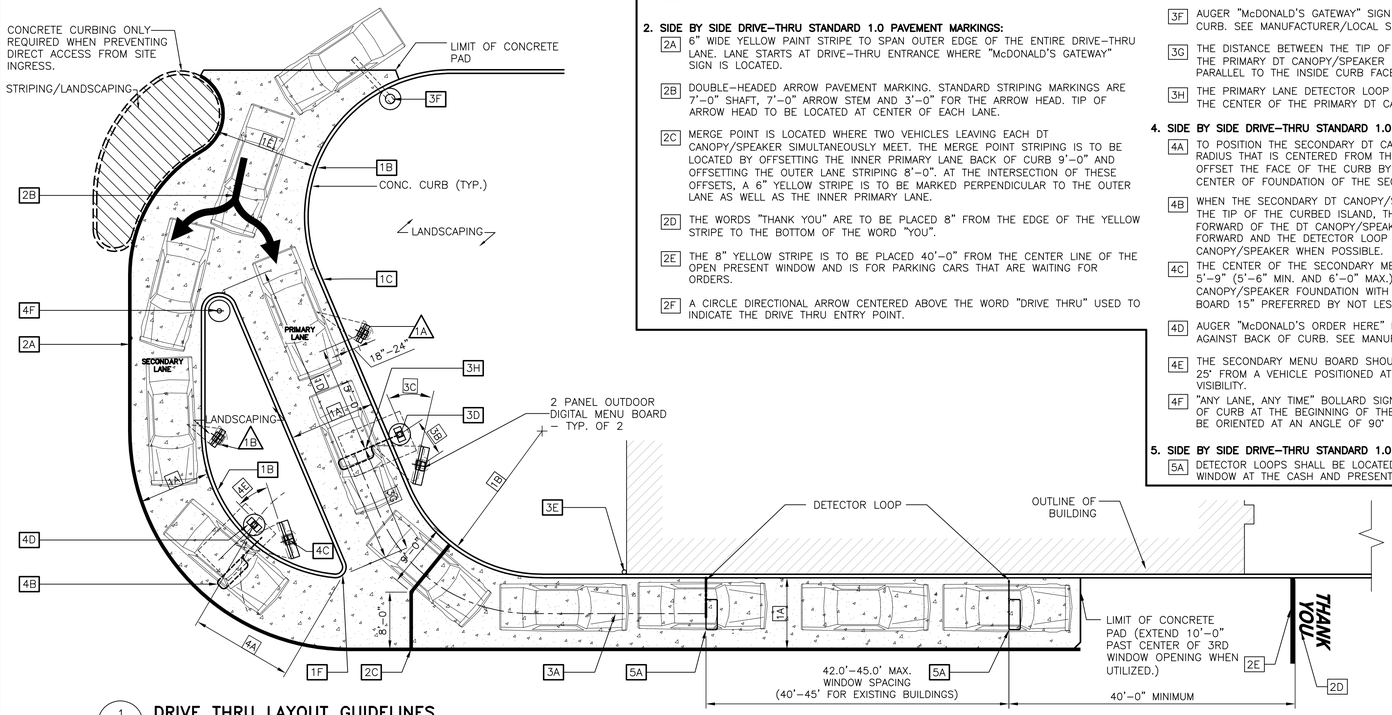
**Lighting schedule** (each fixture type)
lamp type required in fixture - REFER TO LIGHTING SCHEDULE SHEET E 2.0, E 2.1
number of lamps in fixture - REFER TO LIGHTING SCHEDULE SHEET E 2.0, E 2.1
ballast type used in the fixture - REFER TO LIGHTING SCHEDULE SHEET E 2.0, E 2.1
number of ballasts in fixture - REFER TO LIGHTING SCHEDULE SHEET E 2.0, E 2.1
total wattage per fixture - REFER TO LIGHTING SCHEDULE SHEET E 2.0, E 2.1
total interior wattage specified vs. allowed (whole building or space by space)
total exterior wattage specified vs. allowed

**Additional Efficiency Package Options**
**(When using the 2018 NCECC; not required for ASHRAE 90.1)**
☐ C406.2 More Efficient HVAC Equipment Performance
■ C406.3 Reduced Lighting Power Density
☐ C406.4 Enhanced Digital Lighting Controls
☐ C406.5 On-Site Renewable Energy
☐ C406.6 Dedicated Outdoor Air System
☐ C406.7 Reduced Energy Use in Service Water Heating



| NO. | DESCRIPTION | DATE |
|---|---|---|
| | | |
| | | |
| | | |

THE LAYOUT OF THE DRIVE–THRU LANES SHOWN IN THIS DETAIL ILLUSTRATES DRIVE–THRU DESIGN PRINCIPLES.




1 DT1.0 **DRIVE THRU LAYOUT GUIDELINES**
1" = 10'–0"

## SIDE BY SIDE DRIVE–THRU STANDARD 1.0

**1. SIDE BY SIDE DRIVE–THRU STANDARD 1.0 CURBING DETAILS:**

1A DRIVE–THRU LANES BOUND BY CURB ON BOTH SIDES ARE TO BE 12'–0". LANES BOUND BY CURB ON ONE SIDE AND PAINTED STRIPING ON THE OTHER SIDE ARE TO BE A MIN. OF 10'–0".

1B THE MIN. RADIUS FOR ALL INSIDE/DRIVER'S SIDE DRIVE–THRU CURBING IS 20'–0".

1C PRIMARY LANE CURBING SHOULD BE AS STRAIGHT AS POSSIBLE. (LESS CURVING, THE BETTER).

1D THE OVERALL LENGTH OF THE CURBED ISLAND SHOULD BE 35'–45'. THE LENGTH OF THE ISLAND FROM THE DT CANOPY/SPEAKER ALLOWS FOR THREE CARS IN THE SECONDARY LANE, TWO IN THE PRIMARY LANE AND ONE AT THE COMMITMENT POINT.

1E ENTRANCE LANE ENTERING THE SIDE BY SIDE DRIVE–THRU IS TO BE 14'–0" MIN.

1F THE RADIUS FOR THE ISLAND TIP SHALL BE 1'–6".

**2. SIDE BY SIDE DRIVE–THRU STANDARD 1.0 PAVEMENT MARKINGS:**

2A 6" WIDE YELLOW PAINT STRIPE TO SPAN OUTER EDGE OF THE ENTIRE DRIVE–THRU LANE. LANE STARTS AT DRIVE–THRU ENTRANCE WHERE "McDONALD'S GATEWAY" SIGN IS LOCATED.

2B DOUBLE–HEADED ARROW PAVEMENT MARKING. STANDARD STRIPING MARKINGS ARE 7'–0" SHAFT, 7'–0" ARROW STEM AND 3'–0" FOR THE ARROW HEAD. TIP OF ARROW HEAD TO BE LOCATED AT CENTER OF EACH LANE.

2C MERGE POINT IS LOCATED WHERE TWO VEHICLES LEAVING EACH DT CANOPY/SPEAKER SIMULTANEOUSLY MEET. THE MERGE POINT STRIPING IS TO BE LOCATED BY OFFSETTING THE INNER PRIMARY LANE BACK OF CURB 9'–0" AND OFFSETTING THE OUTER LANE STRIPING 8'–0". AT THE INTERSECTION OF THESE OFFSETS, A 6" YELLOW STRIPE IS TO BE MARKED PERPENDICULAR TO THE OUTER LANE AS WELL AS THE INNER PRIMARY LANE.

2D THE WORDS "THANK YOU" ARE TO BE PLACED 8" FROM THE EDGE OF THE YELLOW STRIPE TO THE BOTTOM OF THE WORD "YOU".

2E THE 8" YELLOW STRIPE IS TO BE PLACED 40'–0" FROM THE CENTER LINE OF THE OPEN PRESENT WINDOW AND IS FOR PARKING CARS THAT ARE WAITING FOR ORDERS.

2F A CIRCLE DIRECTIONAL ARROW CENTERED ABOVE THE WORD "DRIVE THRU" USED TO INDICATE THE DRIVE THRU ENTRY POINT.

**3. SIDE BY SIDE DRIVE–THRU STANDARD 1.0 EQUIPMENT POSITIONING FOR PRIMARY LANE:**

3A MIN. 60'–0" (+5', 60'–65') LINEAR DISTANCE BETWEEN THE CENTER LINE OF THE DT CANOPY/SPEAKER FACE AND THE CENTER LINE OF THE OPEN ORDER BOOTH WINDOW AS MEASURED ALONG THE CENTER LINE OF THE LANE. THIS MAY ONLY BE INCREASED IN 20'–0" INCREMENTS (±5' FOR 80', 100', AND 120') TO A MAX OF 120'. 100'–0" IS OPTIMAL.

3B THE CENTER OF THE PRIMARY MENU BOARD FOUNDATION IS TO BE 5'–9" (5'–6" MIN. AND 6'–0" MAX.) FROM THE CENTER OF THE DT CANOPY/SPEAKER FOUNDATION WITH THE END CAP OF THE PRIMARY MENU BOARD 15" PREFERRED BUT NOT LESS THAN 12" FROM THE FACE OF CURB. .

3C THE PRIMARY MENU BOARD SHOULD BE AT AN ANGLE OF APPROXIMATELY 25° TO 35° ANGLE (35° PREFERRED) FROM A CAR POSITIONED AT THE DT CANOPY/SPEAKER AND WITH 100% VISIBILITY.

3D AUGER "McDONALD'S ORDER HERE CANOPY" CANOPY FOUNDATION TIGHT AGAINST BACK OF CURB. SEE MANUFACTURER/LOCAL SPECIFICATIONS FOR DETAILS.

3E A SINGLE BOLLARD SHOULD BE POSITIONED AT THE CORNER OF THE BUILDING ON THE DRIVE–THRU SIDE. IT SHOULD BE FLUSH AGAINST THE BUILDING AND FACE OF THE BOLLARD SHOULD BE TIGHT AGAINST THE BACK OF THE CURB.

3F AUGER "McDONALD'S GATEWAY" SIGN FOUNDATION TIGHT AGAINST BACK OF CURB. SEE MANUFACTURER/LOCAL SPECIFICATIONS FOR DETAILS.

3G THE DISTANCE BETWEEN THE TIP OF THE CURBED ISLAND AND THE CENTER LINE OF THE PRIMARY DT CANOPY/SPEAKER MUST BE 15'–0". THIS MEASUREMENT IS TAKEN PARALLEL TO THE INSIDE CURB FACE OF THE PRIMARY LANE.

3H THE PRIMARY LANE DETECTOR LOOP SHOULD BE PERPENDICULAR TO THE CENTER OF THE PRIMARY DT CANOPY/SPEAKER.

**4. SIDE BY SIDE DRIVE–THRU STANDARD 1.0 EQUIPMENT POSITIONING FOR SECONDARY LANE:**

4A TO POSITION THE SECONDARY DT CANOPY/SPEAKER, DRAW AN ARC WITH A 14' RADIUS THAT IS CENTERED FROM THE MIDPOINT OF THE ISLAND TIP. THEN OFFSET THE FACE OF THE CURB BY 24" TO DETERMINE THE LOCATION OF CENTER OF FOUNDATION OF THE SECONDARY DT CANOPY/SPEAKER.

4B WHEN THE SECONDARY DT CANOPY/SPEAKER IS LOCATED AT 14'–0" FROM THE TIP OF THE CURBED ISLAND, THE LOOP DETECTOR IS TO BE 2'–0" FORWARD OF THE DT CANOPY/SPEAKER CENTER LINE WITH THE LOOP FACING FORWARD AND THE DETECTOR LOOP PERPENDICULAR TO THE SECONDARY DT CANOPY/SPEAKER WHEN POSSIBLE.

4C THE CENTER OF THE SECONDARY MENU BOARD FOUNDATION SHALL BE 5'–9" (5'–6" MIN. AND 6'–0" MAX.) FROM CENTER OF THE DT CANOPY/SPEAKER FOUNDATION WITH THE END CAP OF THE SECONDARY MENU BOARD 15" PREFERRED BY NOT LESS THAN 12" FROM FACE OF CURB.

4D AUGER "McDONALD'S ORDER HERE" DT CANOPY/SPEAKER FOUNDATION TIGHT AGAINST BACK OF CURB. SEE MANUFACTURER/LOCAL SPECIFICATIONS FOR DETAILS.

4E THE SECONDARY MENU BOARD SHOULD BE AT AN ANGLE OF APPROXIMATELY 25° FROM A VEHICLE POSITIONED AT THE DT CANOPY/SPEAKER AND WITH 100% VISIBILITY.

4F "ANY LANE, ANY TIME" BOLLARD SIGN MUST BE A MIN. OF 1'–6" FROM FACE OF CURB AT THE BEGINNING OF THE LANDSCAPE ISLAND. BOLLARD SIGN IS TO BE ORIENTED AT AN ANGLE OF 90° FROM THE CURB.

**5. SIDE BY SIDE DRIVE–THRU STANDARD 1.0 DETECTOR LOOP:**

5A DETECTOR LOOPS SHALL BE LOCATED AT THE CENTER OF THE OPENING WINDOW AT THE CASH AND PRESENTER BOOTHS.

## SIDE BY SIDE DRIVE–THRU STANDARD 1.0 FEATURES:

**1. SIDE BY SIDE DRIVE–THRU STANDARD 1.0 EQUIPMENT:**

1A PRE–BROWSE BOARD MUST BE 18"–24" FROM FACE OF CURB. THE DISTANCE BETWEEN THE PRIMARY DT CANOPY/SPEAKER AND PRE–BROWSE BOARD IS TO BE 15' AS MEASURED ALONG THE FACE OF CURB. THIS IS MEASURED FROM THE CENTER OF THE PRE–BROWSE BOARD FOUNDATION TO THE CENTER OF THE DT CANOPY/SPEAKER FOUNDATION. THE ANGLE (APPROXIMATELY 50°) OF THE PRE–BROWSE BOARD SHOULD MAXIMIZE VISIBILITY TO THE SECOND CAR FROM DT CANOPY/SPEAKER.

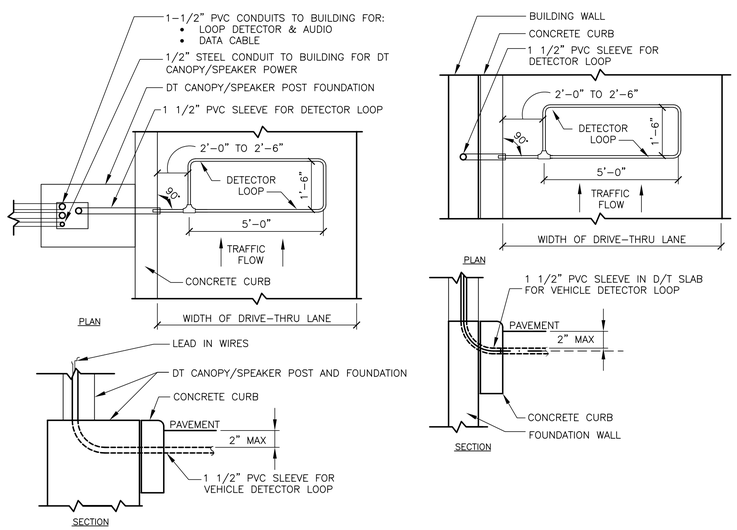
1B PRE–BROWSE BOARD MUST BE MIN. 12" FROM FACE OF CURB. THE DISTANCE BETWEEN THE SECONDARY DT CANOPY/SPEAKER AND PRE–BROWSE BOARD IS TO BE 15' AS MEASURED ALONG FACE OF THE CURB. THIS IS MEASURED FROM THE POINT PERPENDICULAR TO THE CENTER OF THE PRE–BROWSE BOARD FOUNDATION TO THE POINT PERPENDICULAR TO THE CENTER OF THE DT CANOPY/SPEAKER FOUNDATION. THE ANGLE OF THE PRE–BROWSE BOARD SHOULD MAXIMIZE VISIBILITY TO THE SECOND CAR FROM DT CANOPY/SPEAKER (PREFERRED 35°).

## GENERAL NOTES

1. **DRIVE–THRU ELEMENTS:**
   **DT CANOPY/SPEAKER DRIVE–THRU PYLON/CLEARANCE POLE AND BOLLARD SIGN SHALL BE CONSISTENT WITH THE STANDARD BUILDING DESIGN DRIVE–THRU ELEMENTS.**
   **OTHER DESIGNS MAY NOT BE USED.**
2. CONTRACTOR SHALL COORDINATE WITH APPLICABLE PLANS, McDONALD'S AREA CONSTRUCTION MANAGER, CONTENT SUPPLIER AND SIGNAGE SUPPLIER TO DETERMINE EXACT LOCATION, ORIENTATION, MOUNTING HEIGHTS, AND NUMBER OF BOARDS AND OTHER DRIVE–THRU ELEMENTS TO BE INSTALLED AT THIS SITE. ALL WORK TO BE COORDINATED WITH OTHER TRADES.
3. CONTACT McDONALD'S AREA CONSTRUCTION MANAGER FOR DRIVE–THRU ELEMENT FOOTING AND WIRING REQUIREMENTS NOT SHOWN. (INFORMATION ALSO AVAILABLE THROUGH VENDOR WEBSITES) SIGNAGE MANUFACTURER TO PROVIDE FOOTING ANCHORS & TEMPLATES TO G.C. PRIOR TO FOUNDATION POURING.
4. SEE DETAIL 2/DT1.0 FOR DETECTOR LOOP INFORMATION, ELECTRICAL SHEETS FOR LOW VOLTAGE CONDUIT DIAGRAM AND FOR DRIVE THRU POWER DIAGRAM; VENDOR'S SPECIFICATIONS SHALL GOVERN UPON ANY DISCREPANCIES.
5. CONTRACTOR TO COORDINATE THE RESPONSIBILITIES OF THE ELECTRICAL CONTRACTOR, CONTENT SUPPLIER AND THE SIGN SUPPLIER.
6. CONTRACTOR TO INSTALL PRE–FORMED, PRE–WIRED VEHICLE DETECTOR LOOP.
7. CONTRACTOR SHALL VERIFY CONDUIT SIZES REQUIRED BY VEHICLE LOOP DETECTOR SUPPLIER.

## NOTES

1. VERIFY CONDUIT SIZES AND LAYOUT WITH DETECTOR LOOP MANUFACTURER.
2. CENTER VEHICLE DETECTOR LOOP IN DRIVE THRU LANE. INSTALL PER MFR. RECOMMENDATIONS.
3. NO STEEL (REBAR OR ELECTRICAL WIRE) SHALL BE USED WITHIN 2' OF LOOP.
4. DETECTOR LOOP MANUFACTURERS:
   DETECTOR LOOPS MAY BE BY ONE OF THE FOLLOWINGS COMPANIES OR EQUAL.
   3M: 1–800–328–0033
   HME: 1–800–848–4468
5. DETECTOR LOOP MATERIAL:
   PVC TUBING 1/2" I.D. 100 PSI LOOP MADE FROM ONE LENGTH OF THIN FOURTEEN GAUGE STRANDED WIRE. LEAD–IN IS PRE–TWISTED AT FACTORY.
6. DETECTOR LOOP CONSTRUCTION:
   FORMED WITH ONE CONTINUOUS LENGTH OF PVC WITH NO SHARP CORNERS AS DETAILED. WIRE LOOPED, FORMED, & PIGTAILED AS DETAILED.




2 DT1.0 **DETECTOR LOOP DETAILS**
NOT TO SCALE

A – DT CANOPY/SPEAKER DETECTOR LOOP

B – DT WINDOW DETECTOR LOOP

PROJECT No. 60734777 Task: 032–0312

FOR REFERENCE ONLY

| REV | DATE | DESCRIPTION |
|---|---|---|
| | | |

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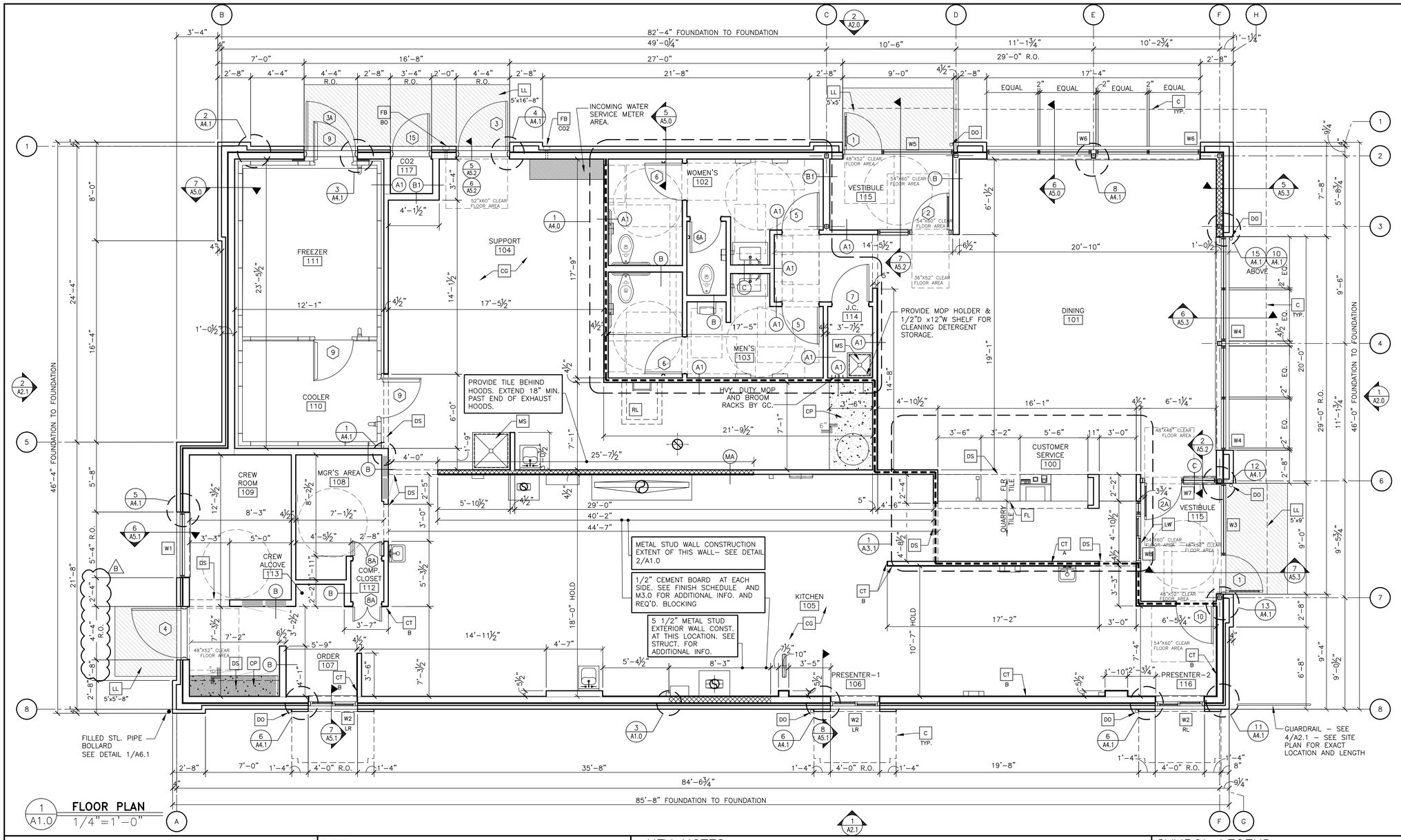
TITLE: 2024 STANDARD BUILDING – BB20
4584–WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & CI
WOOD TRUSS ROOF FRAMING
BRICK/ ALPOLIC PANEL

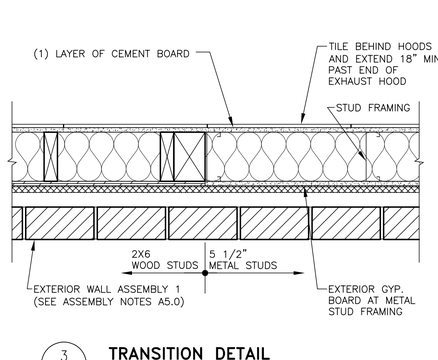
NSN: 10721
L/C: 032–0312

SITE ADDRESS
102 W CORNELIUS HARNETT BLVD

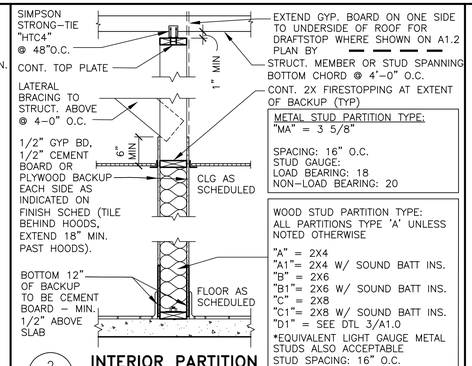
SHEET NO. 032–0312.00.0
DT1.0
DRIVE–THRU DETAILS




1 A1.0 **FLOOR PLAN** 1/4"=1'-0"




3 A1.0 **TRANSITION DETAIL** 1 1/2"=1'-0"




2 A1.0 **INTERIOR PARTITION** 3/4"=1'-0"

## KEY NOTES

- C — ALUMINUM CANOPY SYSTEM ABOVE – SEE 4/A5.0 FOR NOTES – SEE ROOF PLAN FOR DIMENSIONS, SEE ELEVATION FOR COLORS
- CG — G.C. TO PROVIDE 4"x4"x5'–0" HIGH STAINLESS STEEL CORNER GUARDS AT ALL EXPOSED LOCATIONS IN KITCHEN/SUPPORT AREA. CORNER GUARDS TO START AT FINISH FLOOR. ATTACH WITH WOOD SCREWS INTO WOOD BLOCKING BULLNOSE COVE BASE WHERE TILE MEETS STAINLESS STEEL CORNER
- CP — CONCRETE EQMT PAD – SEE STRUCTURAL
- CT A — WALL TILE: PER DECOR PORTFOLIO
  GEOMETRY/LUNA/RAY: EUROWEST – 754–747. COLOR: NOIR, SIZE: 4"x12", PATTERN: STACKED BOND.
  GROUT: MAPEI 02 PEWTER – JOINT TO BE 1/16" MAX.
  ROUTE 66: EUROWEST – WHITE GLOSSY CHEVRON
  GROUT: CHARCOAL 47 – JOINT TO BE 1/16" MAX.
- CT B — WALL TILE: CROSSVILLE – COLOR BY NUMBERS
  COLOR: AFTERNOON SPRAY, SIZE: 4"x12", PATTERN: STACKED BOND
  GROUT: MAPEI 02 PEWTER – JOINT TO BE 1/16" MAX.
  USE THIS TILE WHEN HIGH LRV IS REQUIRED
  COORDINATE WITH McDONALD'S AREA CONSTRUCTION MANAGER
- DO — DOWNSPOUT CONNECTED TO CANOPY SYSTEM. SEE ELEVATIONS. COORDINATE CONNECTION WITH CIVIL.
- DS — DROPPED SOFFIT ABOVE – SEE REFLECTED CEILING PLAN
- DE — DECOR PORTFOLIO SPECIFIC ELEMENT – SEE FINISH SCHEDULE.
- FB CO2 — CO2 FILL BOX (EQUIPMENT SCHEDULE ITEM 49.00)
- FB BO — OPTIONAL BULK OIL FILL BOX (EQPM SCHEDULE ITEM 700.18) CONFIRM USE WITH MCDONALD'S AREA CONSTRUCTION MANAGER
- FL — FLOOR LINE – CHANGE IN MATERIAL – SEE FINISH SCHEDULE
- FP — FIBERGLASS REINFORCED PLASTIC (FRP) – PANOLAM, GRAY SMOOTH, CLASS A, .075. REFER TO ROOM FINISH SCHEDULE SHEET A6.1 FOR INSTALLATION LOCATIONS. FOR ORDERING, CONTACT KIMBERLY LAWSON Kimberly_Lawson@panolam.com 1–866–925–4377
- LL 5'x5' — LEVEL LANDING @ EXT. DOOR W/ MAX. 2% RUNNING/CROSS SLOPE AWAY FROM BUILDING
  SIZE OF LANDING
- LW — LATE–NIGHT WINDOW (OPTIONAL) BY READYACCESS, MANUAL OPEN/SELF CLOSE. SEE SHEET A3.1 FOR NOTES.
- MS — MOP SINK – SEE DETAIL 8/A6.1 AND PLUMBING DRAWINGS.
- RL — ROOF ACCESS LADDER W/HATCH ABOVE SEE STRUCTURAL FRAMING PLAN FOR LOCATING DIMENSIONS

## SYMBOL LEGEND

- A — PARTITION TYPE TAG SEE 2/A1.0
- 7 — DOOR TAG – SEE DOOR SCHEDULE ON A6.0
- X — KEY NOTE
- EXTENT OF WALL TILE – SEE A3.0, A4.2 & A6.1
- DRAFT STOPPING – SEE 2/A1.0
- LEVEL LANDING @ EXT. DOOR
- SLAB LEVEL
- METAL STUD PARTITION

## GENERAL NOTES

1. EXTERIOR DIMENSIONS ARE TO COLUMN REFERENCE LINES AND EXTERIOR FACE OF MASONRY UNLESS OTHERWISE NOTED. INTERIOR DIMENSIONS ARE TO FACE OF INTERIOR WALL BOARD
2. SEE 4/A5.0 FOR EXTERIOR WALL ASSEMBLY TYPES. SEE 2/A1.0 FOR INTERIOR PARTITION TYPES. INTERIOR PARTITIONS ARE TYPE 'A' UNLESS NOTED OTHERWISE.
3. SEE EXTERIOR ELEVATIONS FOR WINDOW TYPES
4. SEE SHEET A6.0 FOR DOOR AND ROOM FINISH SCHEDULES
5. SEE SITE PLAN FOR SIDEWALKS, RAMPS, ETC.
6. GC TO PROVIDE MAXIMUM OCCUPANCY SIGN AND ADA SIGNAGE PACKAGE AND INSTALL SIGNS AT LOCATIONS AND POSITIONS INDICATED IN PACKAGE OR AS REQUIRED BY LOCAL CODES. SIGNAGE PACKAGE SUPPLIED BY: FRANKE/S2K 1–800–423–5247 www.frankesupply.com email: fs–frankesupply.us@franke.com
7. ALL HANDSINK LOCATIONS SHALL HAVE CEMENT BOARD BACKING 48" IN HEIGHT A.F.F.
8. GC TO COORDINATE ALL REQUIRED BLOCKING FOR WALL HUNG EQUIPMENT, SHELVES, ETC. FOR PROPER INSTALLATION HEIGHTS.
9. KNOX BOX TO BE INSTALLED PER LOCAL CODE AS REQUIRED. MODEL AND LOCATION TO BE COORDINATED WITH FIRE MARSHALL.

| REV | DATE | DESCRIPTION |
|---|---|---|
| B | 7/24/2025 | DOOR SIZE REVISED PER 00 REQUEST |

DATE: .....


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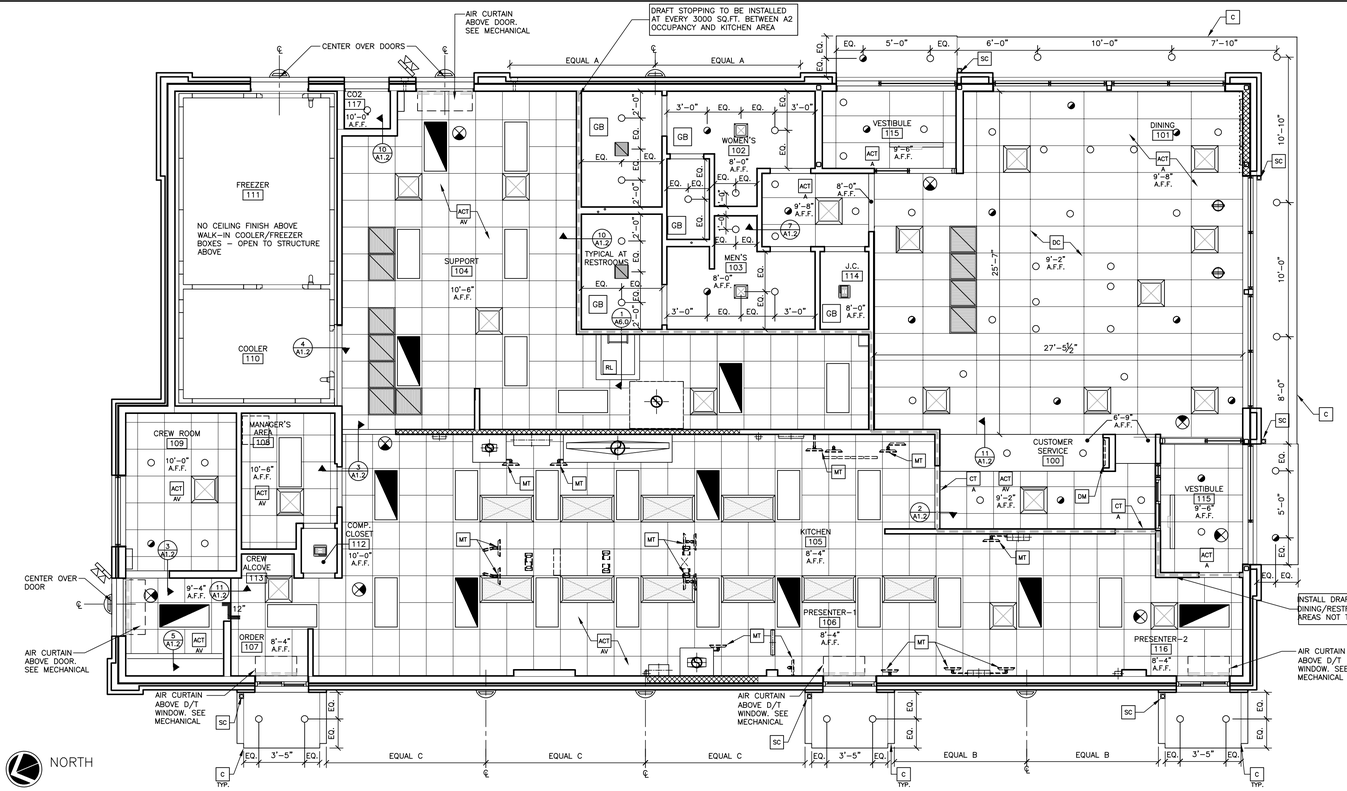

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TITLE: 2024 STANDARD BUILDING – BB20
4584–WOOD/WOOD

| DESCRIPTION | SITE ADDRESS |
|---|---|
| WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & CI | 102 W CORNELIUS HARNETT BLVD |
| WOOD TRUSS ROOF FRAMING | |
| BRICK/ ALPOLIC PANEL | |
| NSN: 10721 | LILLINGTON, NC |
| LIC: 032–0312 | |

SHEET NO.: 032–0312.00.0
**A1.0**
FLOOR PLAN



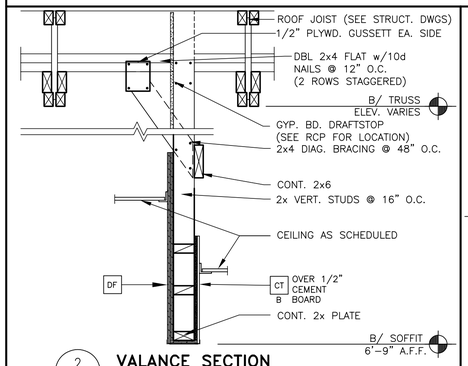

1 A1.2 **REFLECTED CEILING PLAN**
3/16"=1'-0"

## KEY NOTES

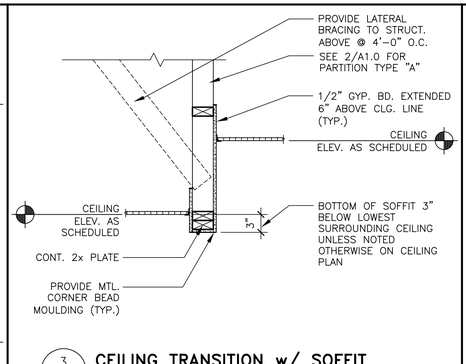
- ACT A — ACOUSTICAL CEILING TILE – 24"X48". SEE FINISH SCHEDULE
- ACT AV — ACOUSTICAL CEILING TILE: VINYL FACED USG 24"X24" CLEAN ROOM CLIMA-PLUS. UNPERFORATED. SMOOTH TEXTURE
  COLOR: WHITE
  GRID:USG 15/16" DX/DXL COLOR: WHITE
- C — ALUMINUM CANOPY WITH INTEGRAL GUTTER AND SCUPPER – SEE 4/A5.0 FOR NOTES – SEE ROOF PLAN FOR DIMENSIONS – SEE ELEVATION FOR COLOR
- CT A — WALL TILE: PER DECOR PORTFOLIO
  GEOMETRY/LUNA/RAY: EUROWEST – 754-747. COLOR: NOIR,
  SIZE: 4"x12", PATTERN: STACKED BOND.
  GROUT: MAPEI 02 PEWTER – JOINT TO BE 1/16" MAX.
  ROUTE 66: EUROWEST – WHITE GLOSSY CHEVRON
  GROUT: CHARCOAL 47 – JOINT TO BE 1/16" MAX.
- CT B — WALL TILE: CROSSVILLE – COLOR BY NUMBERS
  COLOR: AFTERNOON SPRAY, SIZE: 4"x12", PATTERN: STACKED BOND
  GROUT: MAPEI 02 PEWTER – JOINT TO BE 1/16" MAX.
  USE THIS TILE WHEN HIGH LRV IS REQUIRED
  COORDINATE WITH McDONALD'S AREA CONSTRUCTION MANAGER
- DC — SUSPENDED DECORATIVE CEILING TREATMENT – SEE FINISH SCHEDULE
- DM — DIGITAL MERCHANDISER
- DS — DROPPED SOFFIT
  - DC-WH — BOTTOM TO ALIGN WITH GYP BD AT EXTERIOR WINDOW HEAD
  - MAY BE REPLACED BY ELEMENT BY DECOR SUPPLIER – CONFIRM WITH AREA CONSTRUCTION MANAGER
- D# — DECOR PORTFOLIO SPECIFIC ELEMENT – SEE FINISH SCHEDULE.
- MT — CEILING MOUNTED MONITOR: A) VERIFY MONITOR LOCATIONS WITH McDONALD'S PROJECT MANAGER PRIOR TO INSTALLATION. B) SEE DETAIL 6/A1.2 FOR INSTALLATION METHOD
- RL — ROOF LADDER OPENING
- SC — INTERGRAL GUTTER SCUPPER

## GENERAL NOTES

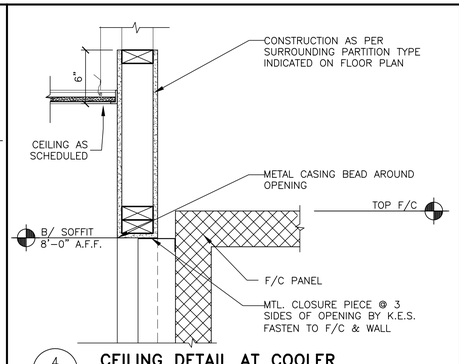
1. SEE SHT A6.1 FOR CEILING FINISHES.
2. SEE SHT A1.0 FOR MENU BOARD DROPPED SOFFIT LOCATION DIMENSIONS
3. GENERAL CONTRACTOR SHALL COORDINATE HVAC DIFFUSER LOCATION WITH DECOR & MECHANICAL PLANS AND REPORT ANY DISCREPANCIES TO ARCHITECT.
4. REFERENCE MECHANICAL AND ELECTRICAL DRAWINGS FOR DIFFUSER AND LIGHTING INFORMATION.
5. PROVIDE USG V15 CEILING TILE RETENTION CLIPS IN ALL VESTIBULE AREAS



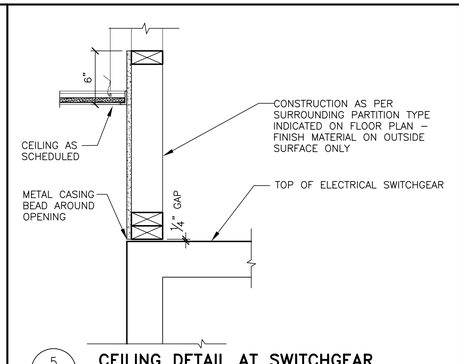

2 A1.2 **VALANCE SECTION**
1"=1'-0"



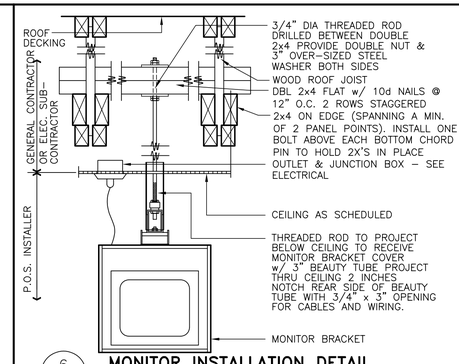

3 A1.2 **CEILING TRANSITION w/ SOFFIT**
1"=1'-0"



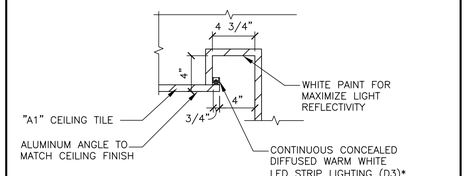

4 A1.2 **CEILING DETAIL AT COOLER**
1 1/2"=1'-0"




5 A1.2 **CEILING DETAIL AT SWITCHGEAR**
1 1/2"=1'-0"

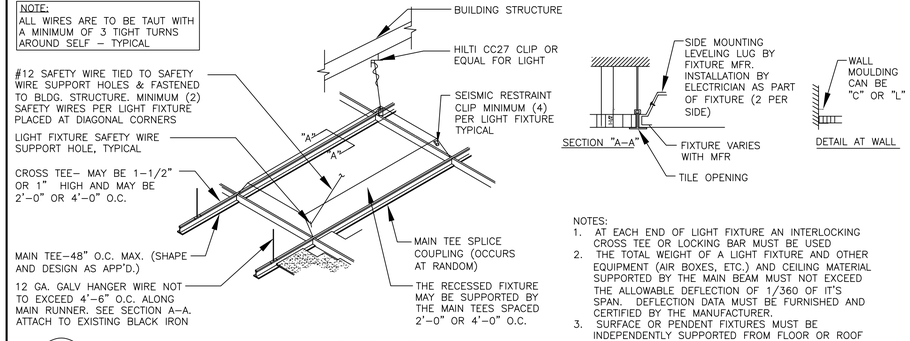



6 A1.2 **MONITOR INSTALLATION DETAIL**
N.T.S.



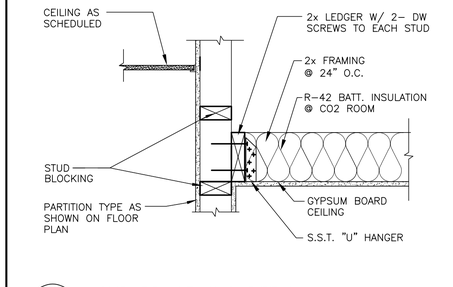

NOTES:
CONTRACTOR TO ENSURE EVEN DISTRIBUTION OF LIGHT WITH NO HOT SPOTS OR SHADOWING.

7 A1.2 **COVE LIGHTING DETAIL**
N.T.S.

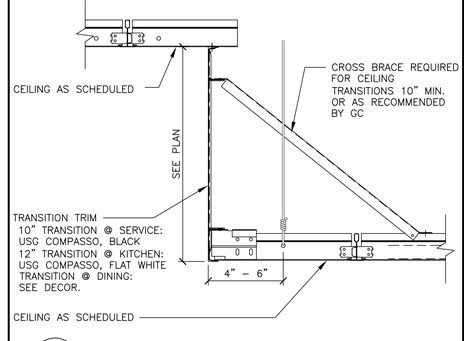



NOTES:
1. AT EACH END OF LIGHT FIXTURE AN INTERLOCKING CROSS TEE OR LOCKING BAR MUST BE USED
2. THE TOTAL WEIGHT OF A LIGHT FIXTURE AND OTHER EQUIPMENT (AIR BOXES, ETC.) AND CEILING MATERIAL SUPPORTED BY THE MAIN BEAM MUST NOT EXCEED THE ALLOWABLE DEFLECTION OF 1/360 OF IT'S SPAN. DEFLECTION DATA MUST BE FURNISHED AND CERTIFIED BY THE MANUFACTURER.
3. SURFACE OR PENDENT FIXTURES MUST BE INDEPENDENTLY SUPPORTED FROM FLOOR OR ROOF CONSTRUCTION.

8 A1.2 **CEILING GRID & LIGHT SUPPORT DETAIL**
N.T.S.




10 A1.2 **GYP BD CEILING DETAIL**
1 1/2"=1'-0" A0610WB1




11 A1.2 **ACOUSTIC CEILING TRANSITION**
N.T.S. COORDINATE w/ DECOR

| REV | DATE | DESCRIPTION |
|---|---|---|
| | | |

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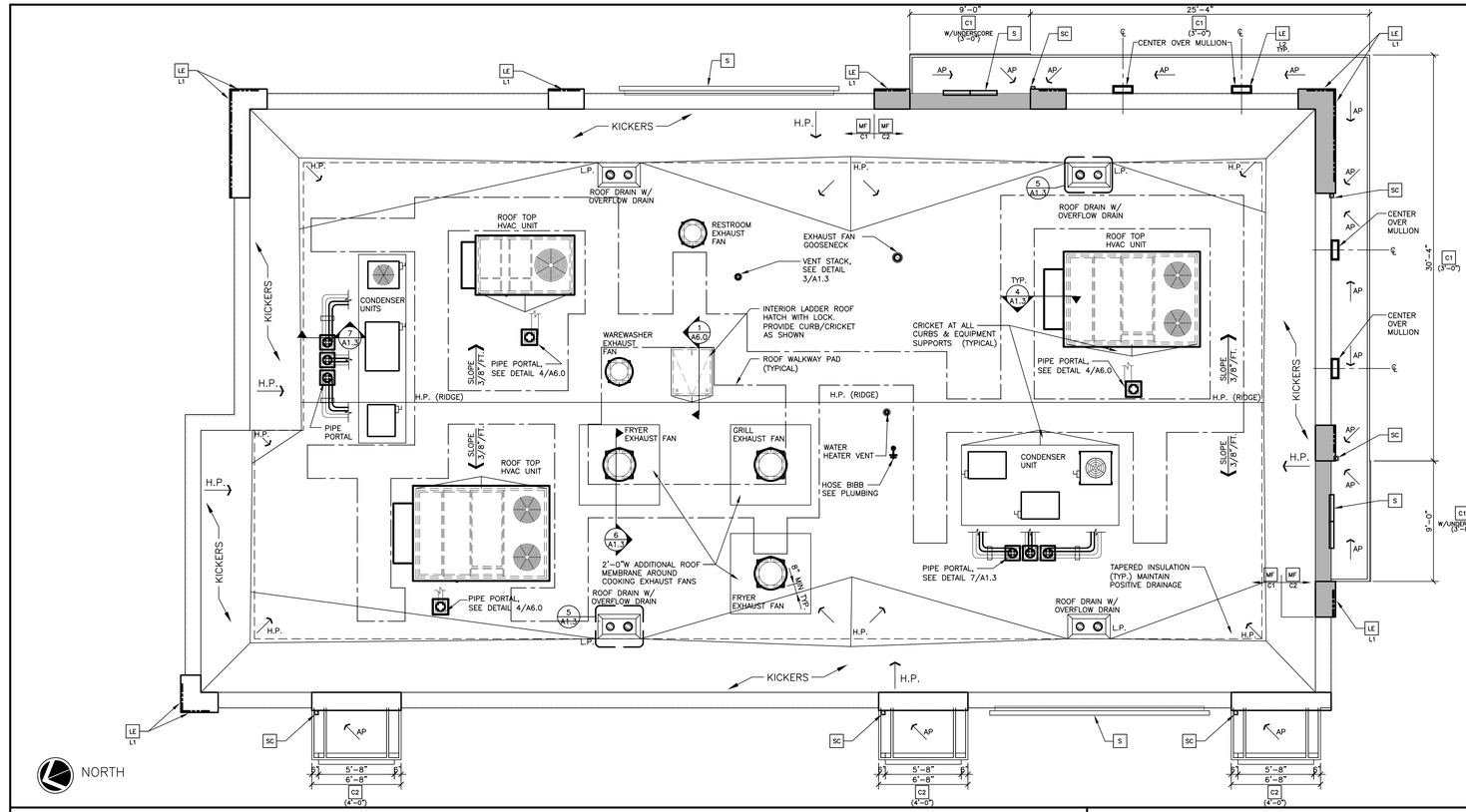
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TITLE: 2024 STANDARD BUILDING – BB20
4584–WOOD/WOOD

| DESCRIPTION | SITE ADDRESS |
|---|---|
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| WOOD TRUSS ROOF FRAMING | |
| BRICK / ALPOLIC PANEL | |
| NSN: 10721 | 102 W CORNELIUS HARNETT BLVD |
| L/C: 032-0312 | LILLINGTON, NC |

SHEET NO. A1.2 — 032-0312.00.0
REFLECTED CLG. PLAN




1 A1.3 **ROOF PLAN**
3/16"=1'-0"

## LEGEND

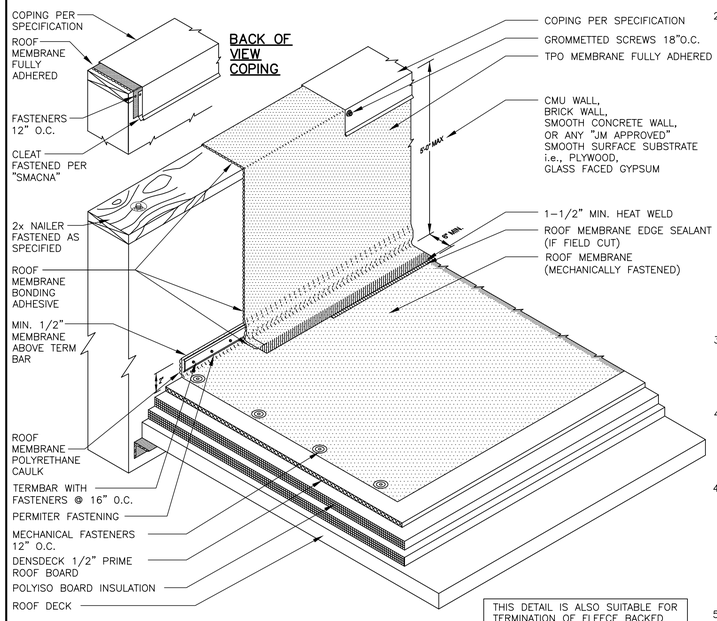
| | |
|---|---|
| L.P. | LOW POINT |
| H.P. | HIGH POINT |
| ⟵ | DIRECTION OF DRAINAGE |
| AP ⟵ | TRELLIS SYSTEM WITH ALUMINUM INFILL PANELS. SLOPE TO EDGE @1/4"PER FT. |

## KEY NOTES

- C1 ALUMINUM CANOPY SYSTEM (COLOR: SEE ELEVATIONS)
- C2 ALUMINUM CANOPY SYSTEM (COLOR: SEE ELEVATIONS)
- LE ACCENT LIGHTING – SEE ELEVATIONS & ELECTRICAL
  - L1 LED LIGHT: L1 = SLIM LED (DOWN ONLY) L2 = UP ONLY FLOOD FIXTURE
- MF METAL FASCIA
  - C1 COLOR: C1 = SEE ELEVATIONS FOR COLOR C2 = SEE ELEVATIONS FOR COLOR
- S McDONALD'S SIGNAGE BY OTHERS UNDER SEPARATE PERMIT (SEE ELEVATIONS)
- SC INTERGRAL GUTTER SCUPPER

## ROOFING NOTES

1. SINGLE–PLY ROOFING SYSTEM WITH BASE FLASHING SHEET EXTENDING UP PARAPET AND TERMINATED UNDER COPING HOT WELDED TO SEALING STRIP SECURED TO WOOD BLOCKING
2. INSTALLATION OF ROOFING SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND PER DETAIL 2 OF THIS SHEET.
3. PROVIDE PREFABRICATED METAL CURBS. COORDINATE SIZE, LOCATION AND INSTALLATION REQUIREMENTS W/ M, E, P & S SHEETS. PROVIDE SHIMS TO LEVEL CURB AREAS WHERE ROOF DECK IS PITCHED.
4. FOR EXACT LOCATION OF EXHAUST FANS, HVAC UNITS, AND ROOF HATCH. REFER TO STRUCTURAL DRAWINGS.
5. CRICKETS MUST BE INSTALLED AT ALL ROOF CURBS & EQUIPMENT PLATFORMS BY GENERALCONTRACTOR.



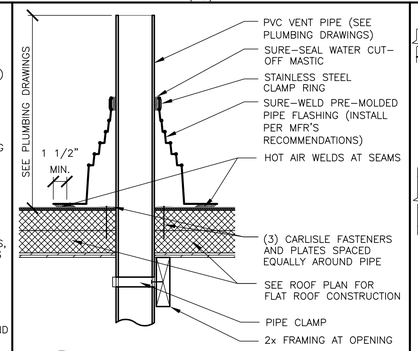

THIS DETAIL IS ALSO SUITABLE FOR TERMINATION OF FLEECE BACKED MEMBRANES. NON FLEECE BACK MEMBRANE IS REQUIRED FOR WALL FLASHINGS.

2 A1.3 **ROOFING SYSTEM**
N.T.S.

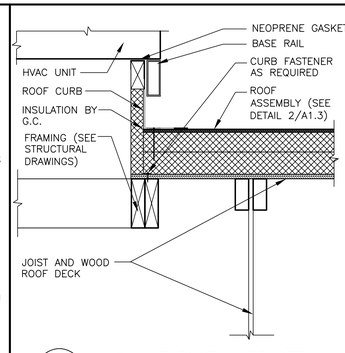
## ROOFING SYSTEM

1. MANUFACTURERS AND PRODUCTS:
   - A. DURO–LAST PVC ROOFING SYSTEM
   - B. JM–PVC. REFER TO JOHNS MANVILLE WEBSITE (www.jm.com) FOR MOST UP–TO–DATE INFORMATION.

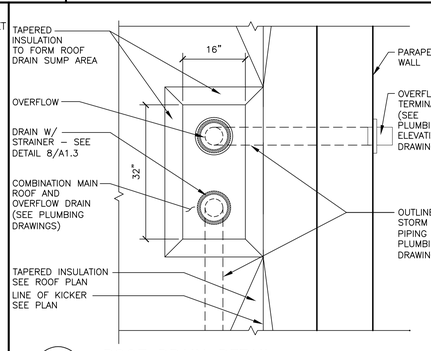
   NO SUBSTITUTIONS ALLOWED
2. SPECIFIED ROOFING SYSTEMS (AS SHOWN):
   HEAT–WELDABLE SINGLE–PLY 50 MIL PVC ROOFING SYSTEM, INSTALLED OVER RIGID INSULATION ON WOOD ROOF DECK HAVING A SLOPE OF 3/8"/FT. MATERIALS SHALL BE AS FOLLOWS:
   - A. SINGLE–PLY ROOFING SYSTEM AS MANUFACTURED BY MANUFACTURER LISTED ABOVE TO COMPLY WITH ASTM E 108 OR UL 790, ASTM D–6878, AND FMG I–90 FOR WIND UPLIFT.
   - B. FASTENERS: METAL FASTENERS AND PLATES AS PER MANUFACTURER.
   - C. ACCESSORIES: PRE–FABRICATED CURBS, FLASHING, CORNERS, TERMINATION BARS, PIPE FLASHING, VENT FLASHING ETC. AS PER MANUFACTURER.
   - D. PLEASE SEE SINGLE–PLY FLASHING SPECIFICATIONS FOR A FULL DESCRIPTION OF INSTALLATION INSTRUCTIONS AND REQUIREMENTS WHICH ARE CONSIDERED A PART OF THIS DETAIL.
   - E. ANY CARPENTRY OR METAL WORK SHOULD BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS AND/OR PROJECT SPECIFICATIONS. THESE COMPONENTS SHOULD BE REVIEWED AND APPROVED BY A LICENSED DESIGN PROFESSIONAL. CONTACT MANUFACTURER FOR METAL OPTIONS TO BE INCLUDED WITHIN THE MANUFACTURER'S GUARANTEE.
   - F. ROOF MEMBRANE EDGE SEALANT IS REQUIRED ON ALL CUT OR NON–ENCAPSULATED EDGES OF REINFORCED MEMBRANE. THIS INCLUDES FACTORY CUT MEMBRANE
3. VAPOR RETARDER:
   10 MILS MINIMUM POLYETHYLENE SHEET (ASTM D4397, MAXIMUM PERMEANCE RATING 0.13 PERM) OR APPROVED EQUAL BY ROOF MANUFACTURER. INSTALL OVER WOOD DECK AS PER ROOF MANUFACTURER'S RECOMMENDATIONS.
4. WALKWAYS:
   - A. 30" WIDE WALKWAY ROLL, HOT AIR WELDED TO MEMBRANE.
   - B. PROVIDE WALKWAY FROM ROOF LADDER EXIT TO ALL ROOF TOP EQUIPMENT AS PER ROOF PLAN ABOVE.
   - C. INSTALL WALKWAY ACCORDING TO WALKWAY PAD MANUFACTURER'S WRITTEN INSTRUCTION.
4. RIGID INSULATION:
   PROVIDE REQUIRED LAYERS OF POLYISOCYANURATE INSULATION W/ 1/2" "DENSDECK" COVER BOARD TO MEET A MINIMUM CONTINUOUS R–30 VALUE – THICKNESS AS REQUIRED. PROVIDE POSITIVE SLOPE TO ALL ROOF DRAINS. SEE ROOF PLAN. PROVIDE TOP LAYER PROTECTION MATERIAL AS PER MANUFACTURERS RECOMMENDATIONS. BOTTOM LAYER OF INSULATION TO HAVE INTEGRAL THERMAL BARRIER OR APPROVED ROOFING MANUFACTURER'S THERMAL UNDERLAYMENT SHEET. ASSEMBLY SHALL COMPLY WITH UL 1256 OR FMG 4450 AND ASTM C 1289, TYPE I OR II.
5. TAPERED INSULATION:
   PROVIDE TAPERED INSULATION AS REQUIRED FOR POSITIVE DRAINAGE TO ROOF DRAINS AS INDICATED PER ROOF PLAN ABOVE. ¼" PER FOOT MIN. REQUIRED.
6. EXHAUST FANS:
   PROVIDE ADDITIONAL LAYER OF ROOF MEMBRANE AROUND EXHAUST FANS AS INDICATED PER ROOF PLAN ABOVE.



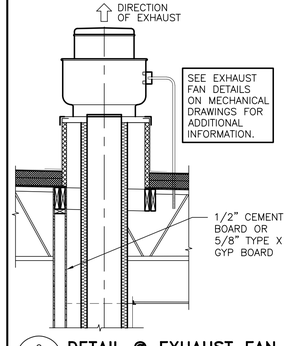

3 A1.3 **TYPICAL VENT PENETRATION**
1 1/2"=1'–0"



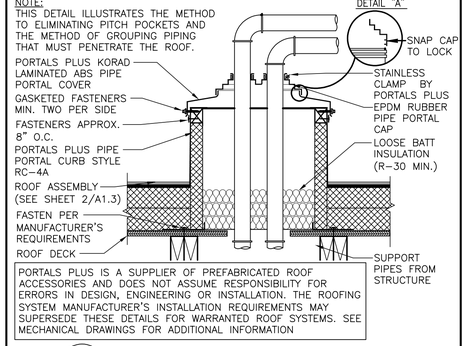

4 A1.3 **HVAC UNIT ROOF CURB DETAIL**
1 1/2"=1'–0"



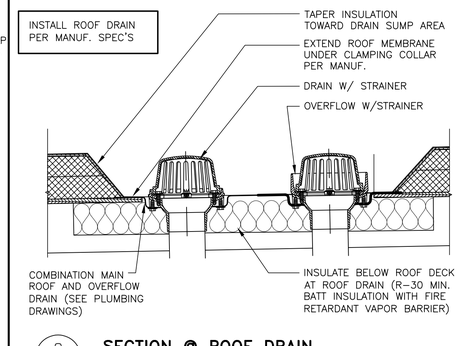

5 A1.3 **ROOF DRAIN DETAIL**
3/4"=1'–0"




6 A1.3 **DETAIL @ EXHAUST FAN**
1/2"=1'–0"




7 A1.3 **PIPE PORTAL DETAIL**
1 1/2"=1'–0"




8 A1.3 **SECTION @ ROOF DRAIN**
1 1/2"=1'–0"

| | |
|---|---|
| DATE: | |
| REV | |
| DATE | |
| DESCRIPTION | |

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ARCHITECTURE
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PREPARED FOR:
McDonald's USA, LLC

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| | |
|---|---|
| DRAWN BY | AT |
| STD ISSUE DATE | 2023 11 |
| REVIEWED BY | GA |
| DATE ISSUED | 9/6/2024 |

| | |
|---|---|
| TITLE | 2024 STANDARD BUILDING – BB20 4584–WOOD/WOOD |
| DESCRIPTION | WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & CI |
| | WOOD TRUSS ROOF FRAMING |
| | BRICK/ ALPOLIC PANEL |
| MSN: 10721 | SITE ADDRESS: 102 W CORNELIUS HARNETT BLVD LILLINGTON, NC |
| L/C: 032–0312 | |

SHEET NO. 032–0312.00.0
A1.3
ROOF PLAN




1 A2.0 **FRONT ELEVATION – SOUTH SIDE – W CORNELIUS HARNETT BLVD**
1/4" = 1'–0"

2 A2.0 **NON–DRIVE–THRU ELEVATION – EAST SIDE – N MAIN STREET**
1/4" = 1'–0"

## BUILDING SIGNAGE SCHEDULE

| FACADE | | SIGN ELEMENT | S.F. |
|---|---|---|---|
| FRONT | 1 | McDONALD'S "M" ARCH LOGO | 14 |
| | | | |
| | | **TOTAL:** | **14** |
| NON–DRIVE THRU SIDE | 1 | McDONALD'S "M" ARCH LOGO | 14 |
| | 2 | McDONALD'S LOGO | 32.8 |
| | | **TOTAL:** | **46.8** |
| DRIVE THRU SIDE | | | |
| | 2 | McDONALD'S LOGO | 32.8 |
| | | **TOTAL:** | **32.8** |
| REAR | | | |
| | | | |
| **TOTAL BUILDING SIGNAGE** | | | **93.6** |

## KEY NOTES:

- AP — ALPOLIC METAL PANEL (COLOR: DON GRAY)
- BR — MODULAR FACE BRICK
  - B1 — COLOR:
    - B1 = "SLATE GRAY" SMOOTH BY HEBRON
    - B2 = "WALNUT CREEK" SMOOTH BY HEBRON
    - B3 = "SLATE GRAY" SMOOTH BY HEBRON – SOLDIER BRICK
  - MORTOR: SM750 SILVERSTONE BY SPEC MIX
- C1 — ALUMINUM CANOPY SYSTEM W/FASCIA
  COLOR: WHITE
- C2 — ALUMINUM CANOPY SYSTEM
  COLOR: RAL 7022
- C3 — ALUMINUM CANOPY TIEBACK
  COLOR: RAL 7022
  GC TO PROVIDE CONTINUOUS BLOCKING ON WALL BEHIND TIEBACKS, WHEN TIEBACKS ARE INSTALLED ON METAL PANELING. SEE DETAIL 3/A5.0
- D — HOLLOW METAL DOOR
  PAINT: "SW–7019 GAUNTLET GRAY" BY SHERWIN WILLIAMS
- DE — DECAL BY GRAPHICS SUPPLIER
  SURFACE APPLIED, FIELD INSTALLED, PRE CUT, PRE SPACED.
  SUPPLIERS:
  VOMELA (865) 330–7337, ann.bowen@vomela.com
  GFX INTERNATIONAL (847) 543–4600, mcdonaldsdecor@gfxi.com
- DO — DOWNSPOUT
  3" DOWNSPOUT BY CANOPY SYSTEM MANUFACTURER
  COLOR: RAL 7022
  COORDINATE WITH CIVIL TO TIE INTO STORM DRAINAGE
- EJ — EXPANSION JOINT, SEE DETAIL 7/A4.1
- FB — FILL BOX
  C02— C02 = BULK CO2 FILL BOX (EQPM SCHEDULE ITEM 49.00)
  BO = BULK OIL FILL BOX (EQPM SCHEDULE ITEM 700.18)
- GR — GUARD RAIL –SEE SITE PLAN FOR EXACT LOCATION AND LENGTH
  PAINT: "IRON ORE" SW 7069 BY SHERWIN WILLIAMS
- L1 — RECESSED DOWN LIGHT FIXTURE – SEE ELECTRICAL
  C1— COLOR:
  C1= WHITE
  C2= GOLD
- L2 — RADIAL SCONCE LIGHT FIXTURE – SEE ELECTRICAL
  C1— COLOR:
  C1= PLATINUM SILVER
- LE — ACCENT LIGHTING – SEE ELECTRICAL
  L1—LED LIGHT:
  L1 = SLIM LED (DOWN ONLY)
  L2 = UP ONLY FLOOD FIXTURE
- PB — PIPE BOLLARD – PAINTED YELLOW
- PT — (RMHC) COIN COLLECTOR
  MODEL: #WPT STD
  CALL 1–888–743–7435 TO ORDER
- MF — METAL FASCIA
  1 — TYPE:
  C1— 1 = PRE–FAB ANCHOR–TITE FASCIA
  COLOR:
  C1= WEATHERED ZINC
  C2= RAL 7022
- RO — ROOF DRAIN OVERFLOW PIPE PAINT TO MATCH SURROUNDING MATERIAL
- S — McDONALD'S SIGNAGE BY OTHERS – UNDER SEPARATE PERMIT.
  C1— COLOR:
  C1= WEATHERED ZINC RACEWAY
  C2= RAL 7022 RACEWAY
- ST — CO2 STROBE/ALARM. SEE MECHANICAL DRAWINGS FOR SPECIFICATION.
- UN — METAL UNDERSCORE
  COLOR: GOLD
- W1 — EXTERIOR WINDOW ASSEMBLY – TEMPERED GLASS
  COLOR: DARK BRONZE
- W2 — DRIVE–THRU WINDOW BY READY ACCESS
  XX— MODEL: 600 SERIES, 36" SERVICE HEIGHT WITH TRANSOM, MANUAL OPEN; ELECTRONIC RELEASE
  COLOR: DEEP BRONZE
  SLIDE DIRECTION: RL = RIGHT TO LEFT
  LR = LEFT TO RIGHT

PROJECT No. 60734777 Task: 032–0312

| NO. | DESCRIPTION | DATE |
|---|---|---|

DATE: .....

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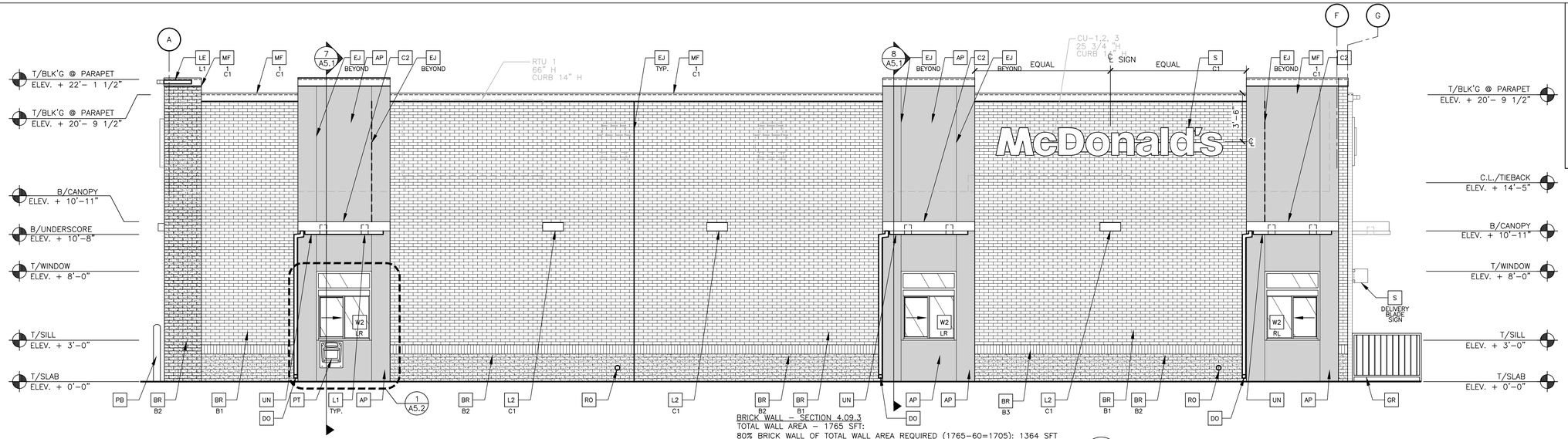
PREPARED FOR:
McDonald's USA, LLC

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STD ISSUE DATE: 2023 11
REVIEWED BY: GA
DATE ISSUED: 9/6/2024

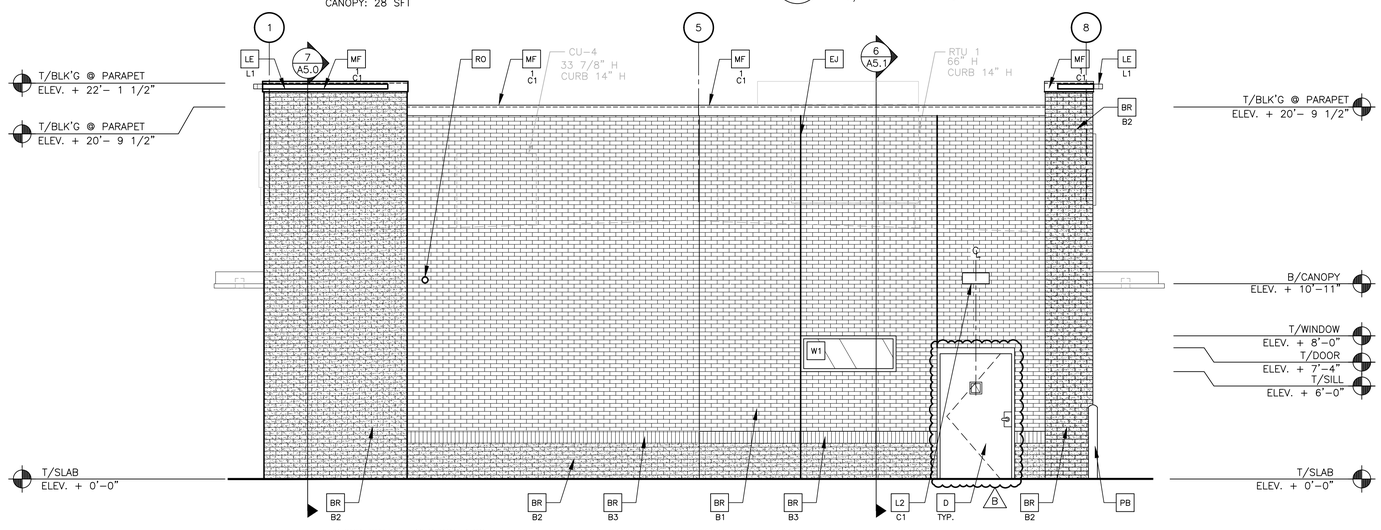
TITLE: 2024 STANDARD BUILDING – BB20
4584–WOOD/WOOD
DESCRIPTION
WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
BRICK / ALPOLIC PANEL
NSN: 10721
SITE ADDRESS: 102 W CORNELIUS HARNETT BLVD
LILLINGTON, NC
L/C: 032–0312

SHEET NO.: 032–0312.00.0
A2.0
ELEVATIONS



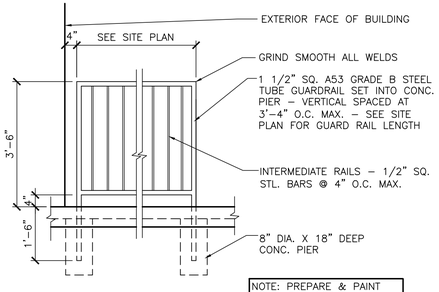

BRICK WALL – SECTION 4.09.3
TOTAL WALL AREA – 1765 SFT:
80% BRICK WALL OF TOTAL WALL AREA REQUIRED (1765–60=1705): 1364 SFT
BRICK WALL AREA PROVIDED (1705–369): 1336 SFT
TOTAL GLAZING PROVIDED: 20+20+20=60 SFT
ALPOLIC: 123*3=369 SFT
CANOPY: 28 SFT

## 1 A2.1 DRIVE THRU ELEVATION – WEST SIDE – INTERIOR TO PARKING
1/4" = 1'–0"

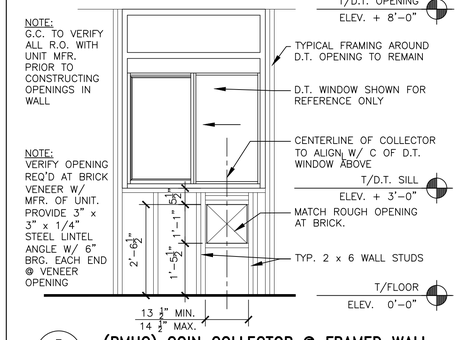



BRICK WALL – SECTION 4.09.3
TOTAL WALL AREA – 955 SFT:
80% BRICK WALL OF TOTAL WALL AREA REQUIRED (955–11–24=920): 736 SFT
BRICK WALL AREA PROVIDED: 920 SFT
TOTAL GLAZING PROVIDED: 83+127=210 SFT
CANOPY: 28 SFT

## 2 A2.1 REAR ELEVATION – NORTH SIDE – INTERIOR OF PARKING
1/4" = 1'–0"




## 4 A2.1 GUARD RAIL DETAIL
1/2"=1'–0"




## 5 A2.1 (RMHC) COIN COLLECTOR @ FRAMED WALL
1/2" = 1'–0" INTERIOR ELEVATON

## 6 A2.1 DETAIL NOT USED
–

### KEY NOTES:

- AP ALPOLIC METAL PANEL (COLOR: DON GRAY)
- BR MODULAR FACE BRICK
  - B1 – COLOR:
    - B1 = "SLATE GRAY" SMOOTH BY HEBRON
    - B2 = "WALNUT CREEK" SMOOTH BY HEBRON
    - B3 = "SLATE GRAY" SMOOTH BY HEBRON – SOLDIER BRICK
  - MORTAR: SM750 SILVERSTONE BY SPEC MIX
- C1 ALUMINUM CANOPY SYSTEM W/FASCIA
  COLOR: WHITE
- C2 ALUMINUM CANOPY SYSTEM
  COLOR: RAL 7022
- C3 ALUMINUM CANOPY TIEBACK
  COLOR: RAL 7022
  GC TO PROVIDE CONTINUOUS BLOCKING ON WALL BEHIND TIEBACKS, WHEN TIEBACKS ARE INSTALLED ON METAL PANELING. SEE DETAIL 3/A5.0
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- DE DECAL BY GRAPHICS SUPPLIER
  SURFACE APPLIED, FIELD INSTALLED, PRE CUT, PRE SPACED.
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  COLOR: RAL 7022
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  C1—COLOR:
  C1= WHITE
  C2= GOLD
- L2 RADIAL SCONCE LIGHT FIXTURE – SEE ELECTRICAL
  C1—COLOR:
  C1= PLATINUM SILVER
- LE ACCENT LIGHTING – SEE ELECTRICAL
  L1—LED LIGHT:
  L1 = SLIM LED (DOWN ONLY)
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  MODEL: #WPT STD
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- UN METAL UNDERSCORE
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  COLOR: DARK BRONZE
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  XX— MODEL: 600 SERIES, 36" SERVICE HEIGHT WITH TRANSOM, MANUAL OPEN; ELECTRONIC RELEASE
  COLOR: DEEP BRONZE
  SLIDE DIRECTION: RL = RIGHT TO LEFT
  LR = LEFT TO RIGHT

| REV | DATE | DESCRIPTION |
|---|---|---|
| B | 7/24/2025 | DOOR SIZE REVISED PER OD REQUEST |

DATE: .....

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Architecture/AE
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McDonald's USA, LLC

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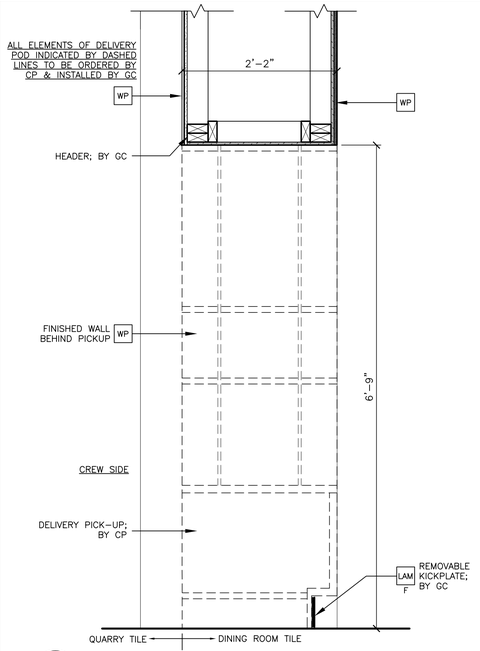
| DRAWN BY | STD ISSUE DATE | REVIEWED BY | DATE ISSUED |
|---|---|---|---|
| HM | 2023 11 | CA | 9/6/2024 |

TITLE: 2024 STANDARD BUILDING – BB20
4584–WOOD/WOOD
DESCRIPTION: WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & CI
WOOD TRUSS ROOF FRAMING
BRICK/ ALPOLIC PANEL
NSN: 10721

SITE ADDRESS: 102 W CORNELIUS HARNETT BLVD
LILLINGTON, NC
L/C: 032–0312

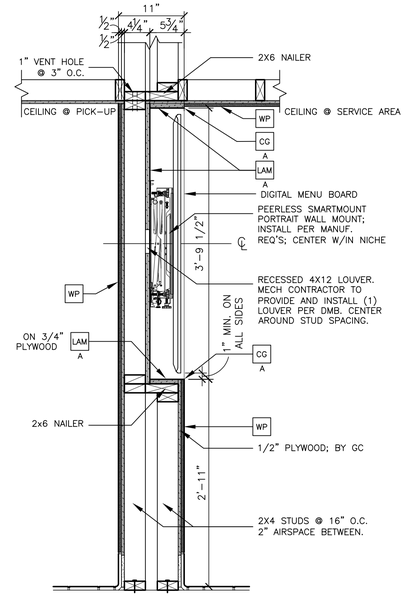
SHEET NO.: A2.1
032–0312.00.0
ELEVATIONS

PROJECT No. 60734777 Task: 032–0312



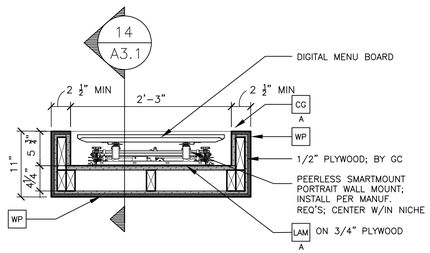

15 A3.1 **SECTION @ DELIVERY POD**

1" = 1'-0"



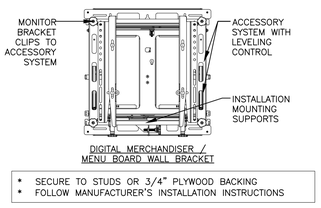

14 A3.1 **SECTION @ DIGITAL MERCHANDISER**

1"=1'-0"




13 A3.1 **PLAN DETAIL @ DIGITAL MERCH.**

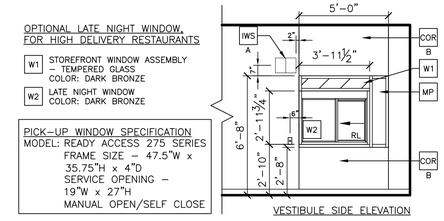
1"=1'-0"




- SECURE TO STUDS OR 3/4" PLYWOOD BACKING
- FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS

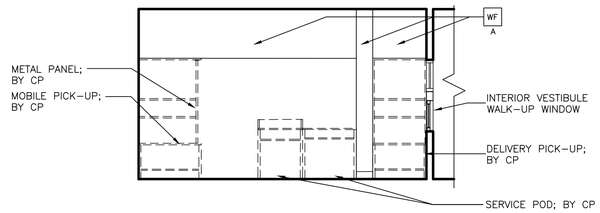
10 A3.1 **DIGITAL BOARD BRACKET DETAIL**

1"=1'-0"



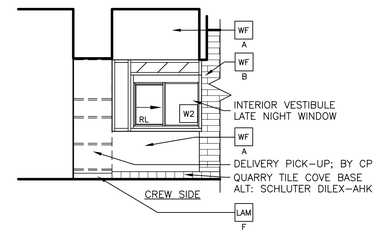

9 A3.1 **LATE NIGHT WINDOW – VESTIBULE SIDE**

1/4" = 1'-0"



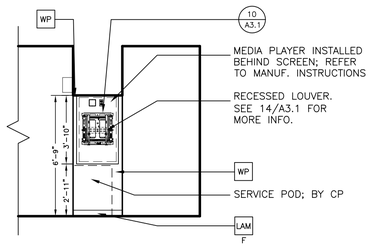

8 A3.1 **SERVICE AREA ELEVATION – CREW SIDE**

1/4" = 1'-0"



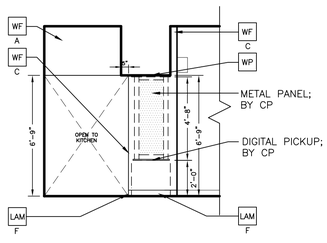

6 A3.1 **LATE NIGHT WINDOW – CREW SIDE**

1/4" = 1'-0"



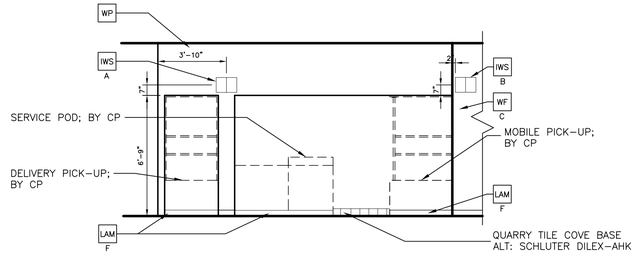

5 A3.1 **SERVICE AREA ELEVATION**

1/4" = 1'-0"



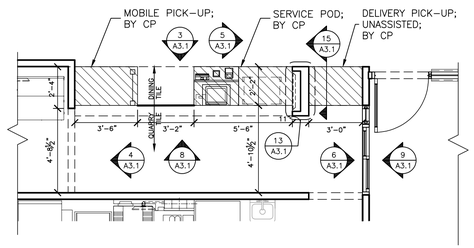

4 A3.1 **SERVICE AREA ELEVATION**

1/4" = 1'-0"




3 A3.1 **SERVICE AREA ELEVATION – CUSTOMER SIDE**

1/4" = 1'-0"




1 A3.1 **SERVICE AREA PLAN**

1/4" = 1'-0"

## KEY NOTES

CG CORNER GUARD: 3/4" ANGLE BY DECOR
X—
A = BLACK

COR CORIAN:
X—
A = 1/2" CORIAN CAMEO WHITE
B = 1/2" CORIAN DEEP TITANIUM

IWS INTERIOR WAYFINDING SIGNAGE
X—
A = McDELIVERY INTERIOR TRIANGULAR SIGN
B = MOBILE ORDER INTERIOR TRIANGULAR SIGN
C = ADA ASSISTANCE SIGNAGE

LAM LAMINATE:
X—
COLOR:
A = IDMB / DIG. MERCH., SMOOTH BLACK PLASTIC LAMINATE BY GC
E = McDELIVERY UNDERSCORE, LAMITECH GOLDEN
F = BASE BOARD, FORMICA COMPACT LAMINATE MATTE BLACK BY GC

MP METAL INFILL PANEL. MATCH DARK BRONZE WINDOW ASSEMBLY

WP LAMINATE WALL PANEL
PER DECOR PORTFOLIO:
GEOMETRY = LAMITECH – 1557–PR, COLOR: SEASON ASH
LUNA = LAMITECH – 1467 MT, COLOR: LINEAL OAK
RAY = WILSONART – 7954–38A, COLOR: NATURAL RIFT
ROUTE 66 = LAMITECH – 1540 PW, COLOR: ONTARIO OAK
COORDINATE WITH McDONALD'S AREA CONSTRUCTION MANAGER

WF WALL FINISH.
TILE GROUT: MAPEI 02 PEWTER – JOINT TO BE ⅛" MAX. (UNO)
X—
A = TILE PER DECOR PORTFOLIO.
GEOMETRY/LUNA/RAY: EUROWEST – 754–747. COLOR: NOIR.
SIZE: 4"X12". PATTERN: STACKED BOND.
ROUTE 66: EUROWEST – WHITE GLOSSY CHEVRON
GROUT: CHARCOAL 47 – JOINT TO BE ⅛" MAX.
B = CROSSVILLE – COLOR BY NUMBERS. COLOR: AFTERNOON SPRAY.
SIZE: 4"X12". PATTERN: STACKED BOND.
C = WALL PANEL / TILE PER DECOR PORTFOLIO.
GEOMETRY: CROSSVILLE – KALEIDOSCOPE, 24"X24", STACKED BOND.
LUNA: CROSSVILLE – MOONLIGHT GREY, 12"X24", STACKED BOND.
RAY: LAMITECH – INDUSTRIAL CONCRETE (WITHOUT HOLES)
ROUTE 66: EUROWEST – WHITE GLOSSY CHEVRON
GROUT: CHARCOAL 47 – JOINT TO BE ⅛" MAX.

## GENERAL NOTES

- ALL WALL LAMINATE PANELING MANUFACTURED BY DECOR PURCHASE AND INSTALL BY GC, UNO.
- ALL ELEMENTS 'BY CP' TO BE ORDERED BY CENTRAL PURCHASING AND INSTALLED BY GC, UNO.
- KIOSK SIGNAGE BY GC; ORDER FROM AMANDA GUSTAFSON W/ ALTRUA (agustafson@altrua.com)
'CREDIT ONLY' & 'CASH/CREDIT' KIOSK SIGNAGE

| REV | DATE | DESCRIPTION |
|---|---|---|
| | | |

DATE:

PREPARED BY:
AECOM
Services of NC, Inc.
ARCHITECTURE
230 S. Caldwell Ave
Clayton, North Carolina 27520
www.aecom.com
T (973) 883 8592
F (973) 883 8500

PREPARED FOR:
McDonald's USA, LLC

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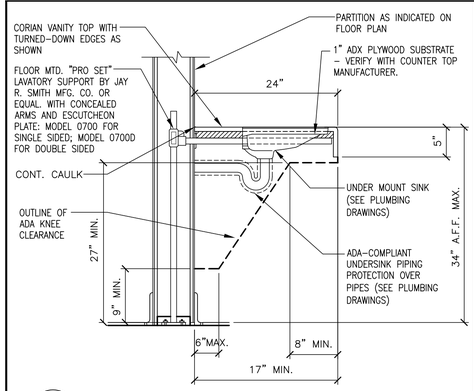
| DRAWN BY | STD ISSUE DATE | REVIEWED BY | DATE ISSUED |
|---|---|---|---|
| HM | 2023 11 | CA | 9/6/2024 |

TITLE
2024 STANDARD BUILDING – BB20
4584–WOOD/WOOD

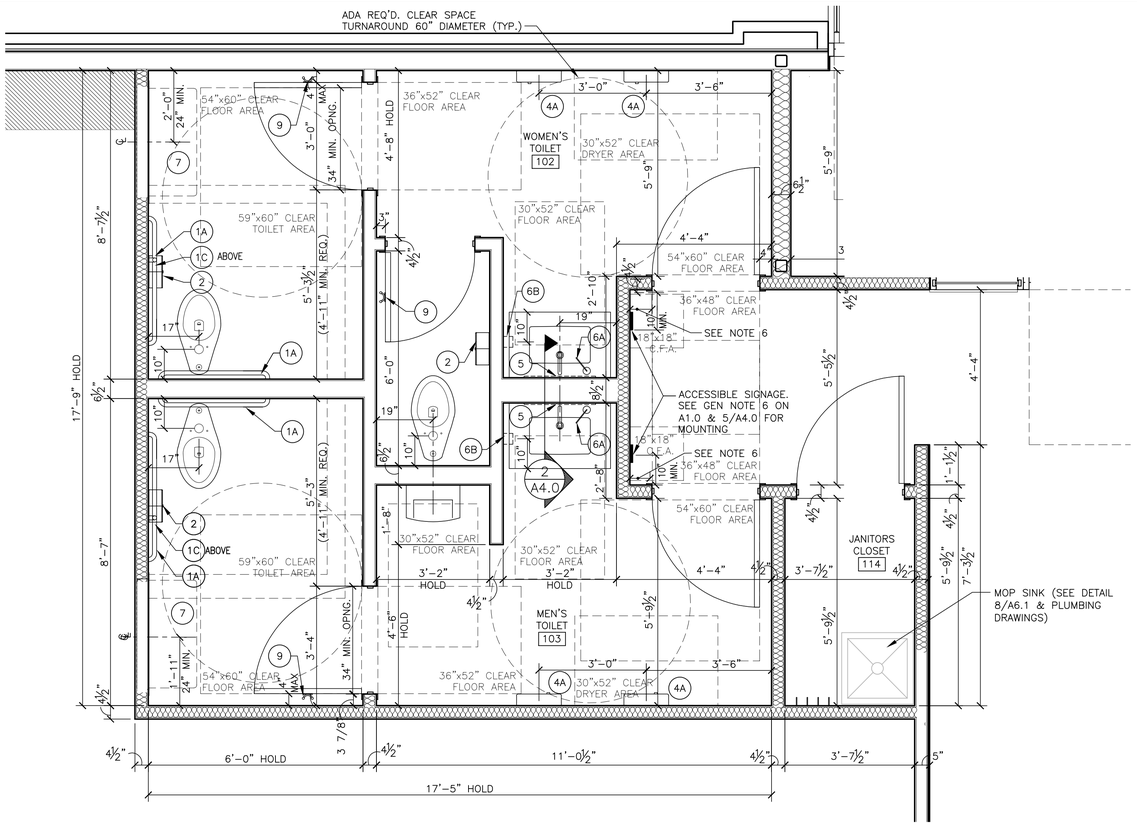
DESCRIPTION
WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & GI
WOOD TRUSS ROOF FRAMING
BRICK/ ALPOLIC PANEL

| MSN: 10721 | SITE ADDRESS | LULLINGTON, NC |
|---|---|---|
| I/C: 032–0312 | 102 W CORNELIUS HARNETT BLVD | |

SHEET NO.
032–0312.00.0
A3.1
Service Pod Details




2 / A4.0 **SECTION @ LAVATORY**
1"=1'-0"

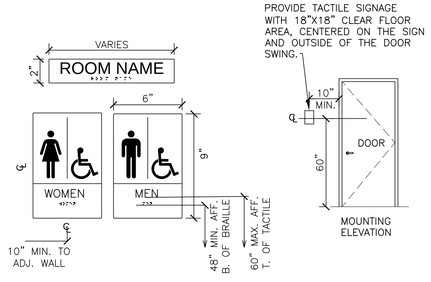



1 / A4.0 **ENLARGED RESTROOM PLAN**
1/2" = 1'-0"

**NOTES:**

1. ALL DIMENSIONS SHOWN ARE TAKEN TO CEMENT BD.
2. SEE 2/A1.0 FOR PARTITION TYPES
3. SEE SHEETS A6.0 & A6.1 FOR DOOR AND FINISH SCHEDULES.
4. SEE 4/A4.0 FOR FIXTURE MOUNTING HEIGHTS
5. DASHED LINES REPRESENTING CLEAR FLOOR SPACE REQUIREMENTS MUST BE MAINTAINED WITHOUT EXCEPTION. IF CONDITIONS PREVENT ANY CLEAR FLOOR SPACE FROM BEING MAINTAINED, CONTACT THE ARCHITECT FOR RESOLUTION.
6. RESTROOM ENTRY DOORS ARE TO BE PROVIDED WITHOUT LATCHES. THEREFORE, ADDITIONAL ADA DOOR MANEUVERING CLEARANCE IS NOT REQUIRED AT THIS LOCATION.

(X) = RESTROOM ACCESSORY – SEE 3/A4.0




GRAPHICS SHOWN ARE FOR REFERENCE ONLY.

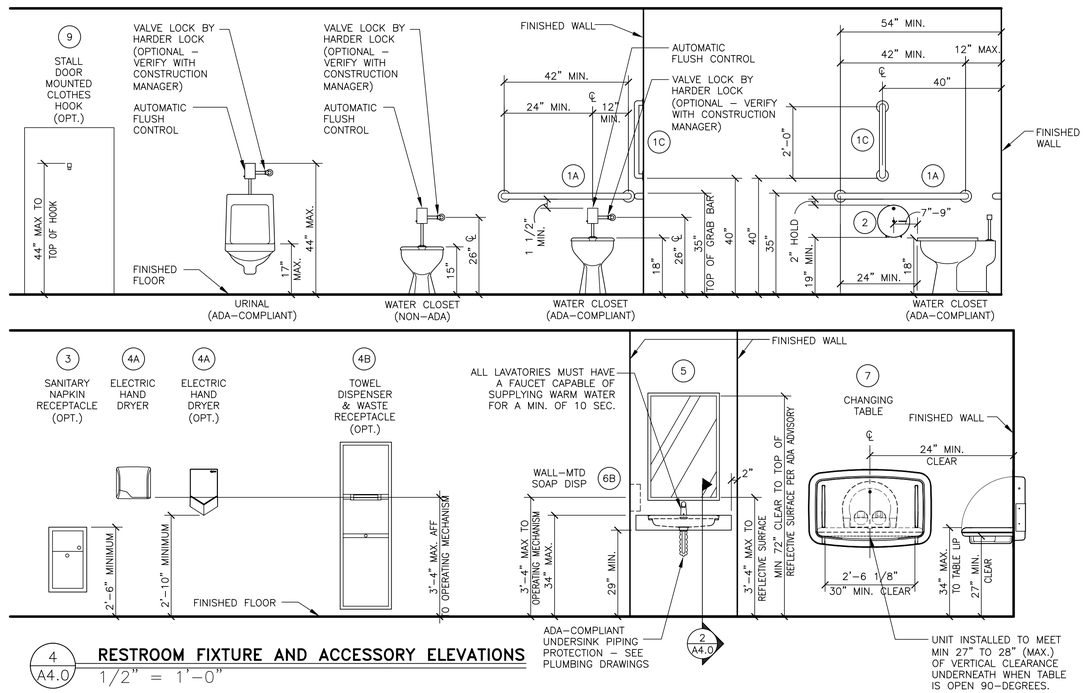
GC TO PROVIDE ADA SIGNAGE PACKAGE AND INSTALL SIGNS AT LOCATIONS AND POSITIONS INDICATED IN PACKAGE OR AS REQUIRED BY LOCAL CODES. SIGNAGE PACKAGE SUPPLIED BY:

FRANKE S2K.
CONTACT JOSH BRAVO
joshua.bravo@s2kgraphics.com
PH: 818-812-7605.

SIGNAGE NOTES:

1. EACH EXIT DOOR SHALL HAVE A TACTILE SIGN, INCLUDING RAISED LETTERS AND BRAILLE, STATING "EXIT" AND SHALL COMPLY WITH CHAPTER 7. ALL SIGNAGE SHALL CONFORM WITH ACCESSIBILITY GUIDELINES AND LOCAL GUIDELINES INCLUDING BUT NOT LIMITED TO PROPORTION, COLOR CONTRAST AND RELIEF AND GRADE 2 BRAILLE REQUIREMENTS.
2. WHEN PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, RAISED LETTERS SHALL BE PROVIDED AND SHALL BE ACCOMPANIED BY BRAILLE IN CONFORMANCE WITH CHAPTER 7. SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, INCLUDING AT DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT. MOUNTING HEIGHT SHALL BE 60" ABOVE THE FINISHED FLOOR TO THE CENTERLINE OF THE SIGN. MOUNTING LOCATION SHALL BE DETERMINED SO THAT A PERSON MAY APPROACH WITHIN 3" OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR.

5 / A4.0 **ACCESSIBLE SIGNAGE**
N.T.S.




4 / A4.0 **RESTROOM FIXTURE AND ACCESSORY ELEVATIONS**
1/2" = 1'-0"

| | ITEM (SEE NOTE 2) | MFR MODEL # | SUPPLIER | BACKUP SUPPORT (SEE NOTE 3) |
|---|---|---|---|---|
| 1A | GRAB BAR 42" | BOBRICK B-6806X42 | HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOCA.COM | (1)2x6 4'-0" LONG CENTER MOUNTED |
| 1C | GRAB BAR 24" | B-6806X24 | | |
| 2 | TOILET TISSUE DISPENSER, JUMBO, SURFACE MOUNTED | BRADLEY 5424 | HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOCA.COM | FRAME WALL OPENING PER MANUFACTURER'S RECOMMENDATIONS |
| 3 | SANITARY NAPKIN RECEPTACLE, RECESSED (OPTIONAL) | BOBRICK B-354 | HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOCA.COM | |
| 4A | HAND DRYER, ENERGY EFFICIENT MODEL, ADA, ALUMINUM BRUSHED | WORLD DRYER Q-973A2 VerdeDri | HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOCA.COM | FRAME WALL OPENING PER MANUFACTURER'S RECOMMENDATIONS |
| 4A OPTION | HAND DRYER, ENERGY EFFICIENT MODEL ADA, SPRAYED NICKEL | DYSON AIRBLADE V | HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOCA.COM | |
| 4B OPTION | TOWEL DISPENSER & WASTE RECEPTACLE, COMBINATION, RECESSED (OPTIONAL) | BOBRICK B-3974 | HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOCA.COM | |
| 5 | MIRROR, CHANNEL FRAME | BOBRICK B-165 2436 | HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOCA.COM | |
| 6A | SOAP DISPENSER, COUNTER MOUNTED, 6" SPOUT (OPTIONAL) | BOBRICK B-82216 | HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOCA.COM | |
| 6B | SOAP DISPENSER, WALL-MOUNTED | BOBRICK B-2112 | HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOCA.COM | |
| 7 | BABY CHANGING TABLE, HORIZONTAL, RECESSED, ADA COMPLIANT, STAINLESS STEEL | KOALA KARE KB310-SSRE | HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOCA.COM | INSTALL PER MANUFACTURER'S RECOMMENDATIONS |
| 7 OPTION "A" | BABY CHANGING TABLE, HORIZONTAL, SURFACE MOUNT, ADA COMPLIANT, STAINLESS STEEL | KOALA KARE KB310-SSWM | HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOCA.COM | INSTALL PER MANUFACTURER'S RECOMMENDATIONS |
| 8 | DIAPER CONTAINER (OPTIONAL) | – | BY OWNER | |
| 9 | CLOTHES HOOK | BRADLEY 917 | HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOCA.COM | |

NOTES:
1) SEE 4/A4.0 FOR ACCESSORY MOUNTING HEIGHTS
2) SELECT ONE ITEM FROM ITEM GROUPS 4 & 6, VERIFY WITH AREA CONSTRUCTION MANAGER.
3) CUT BACK-UP SUPPORTS BETWEEN STUDS SO FACE OF SUPPORT IS FLUSH W/WALL STUD

3 / A4.0 **RESTROOM ACCESSORY SCHEDULE**

| REV | DATE | DESCRIPTION |
|---|---|---|
| | | |

DATE: .....

PREPARED BY:
AECOM
Services of NC, Inc.
ARCHITECTURE
220 S. Sand Hill Ave.
Cleveland, SC 29635
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PREPARED FOR:
McDonald's USA, LLC

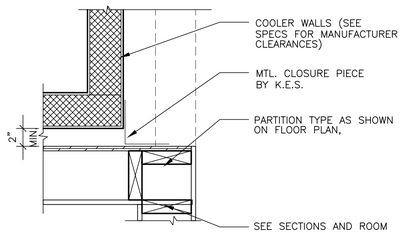
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| | |
|---|---|
| DRAWN BY | HM |
| STD ISSUE DATE | 2023 11 |
| REVIEWED BY | GA |
| DATE ISSUED | 9/6/2024 |

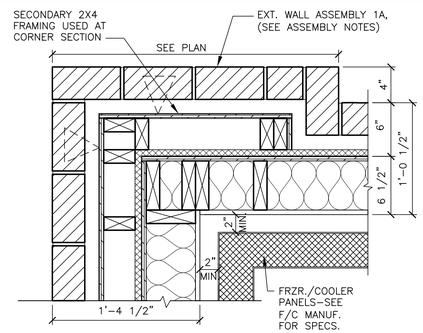
TITLE: 2024 STANDARD BUILDING – BB20
4584-WOOD/WOOD

| | |
|---|---|
| DESCRIPTION | WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & CI |
| | WOOD TRUSS ROOF FRAMING |
| | BRICK/ ALPOLIC PANEL |
| MSN: 10721 | SITE ADDRESS: 102 W CORNELIUS HARNETT BLVD |
| L/C: 032-0312 | LILLINGTON, NC |

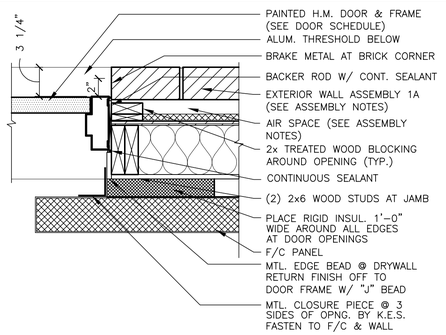
SHEET NO. 032-0312.00.0
A4.0
RESTROOM PLAN



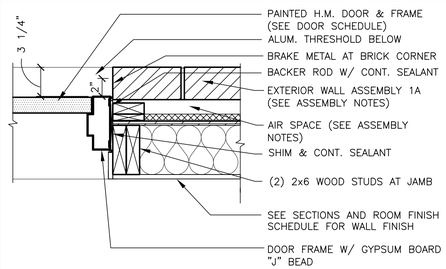

1 A4.1 **CLOSURE DETAIL @ COOLER**
1 1/2"=1'-0"



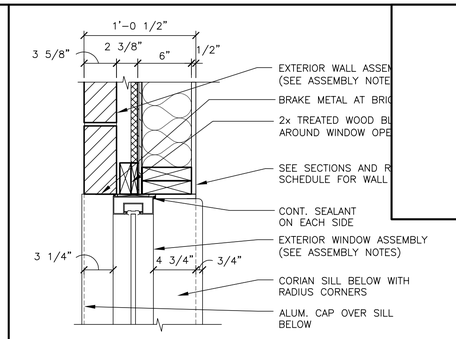

2 A4.1 **REAR WALL F/C DETAIL**
1 1/2"=1'-0"



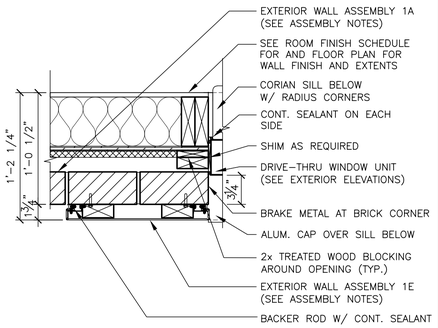

3 A4.1 **DOOR JAMB @ F/C DOOR**
1 1/2"=1'-0"



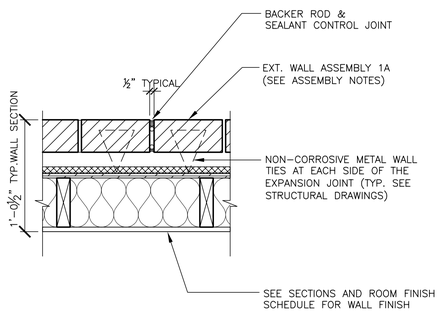

4 A4.1 **EXT.DOOR JAMB DETAIL**
1 1/2"=1'-0"



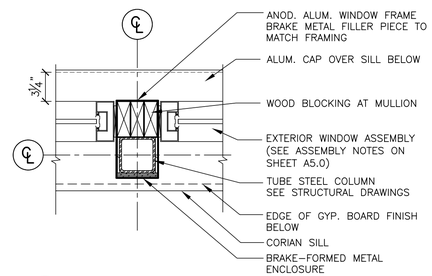

5 A4.1 **CREW WINDOW JAMB DETAIL**
1 1/2"=1'-0"




6 A4.1 **ORDER WINDOW JAMB DETAIL**
1 1/2"=1'-0"

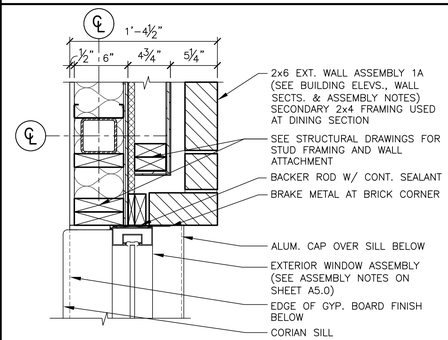



7 A4.1 **EXPANSION JOINT DETAILS**
1 1/2"=1'-0"

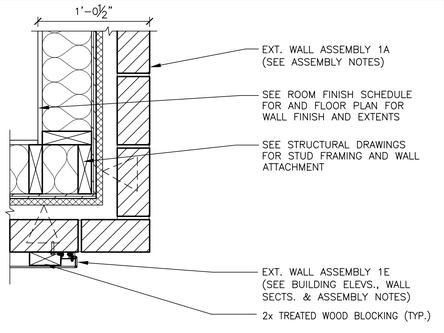



8 A4.1 **DETAIL @ COLUMN**
1 1/2"=1'-0"

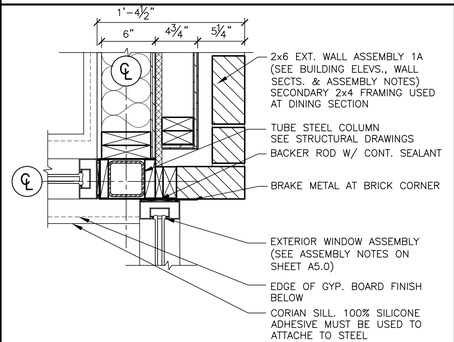
9 A4.1 **NOT USED**



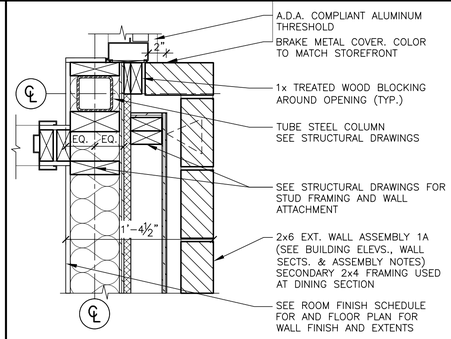

10 A4.1 **WINDOW JAMB DETAIL**
1 1/2"=1'-0"




11 A4.1 **CORNER DETAIL @ DT SURROUND**
1 1/2"=1'-0"

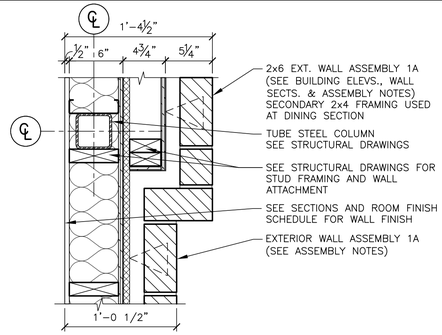



12 A4.1 **DETAIL @ COLUMN**
1 1/2"=1'-0"




13 A4.1 **DOOR JAMB @ ENTRY**
1 1/2"=1'-0"

14 A4.1 **NOT USED**
–




15 A4.1 **DETAIL @ COLUMN**
1 1/2"=1'-0"

| REV | DATE | DESCRIPTION |
|---|---|---|
| | | |

DATE: .....


PREPARED BY:
AECOM
Services of NC, Inc.
ARCHITECTURE
224 S. Camden Rd.
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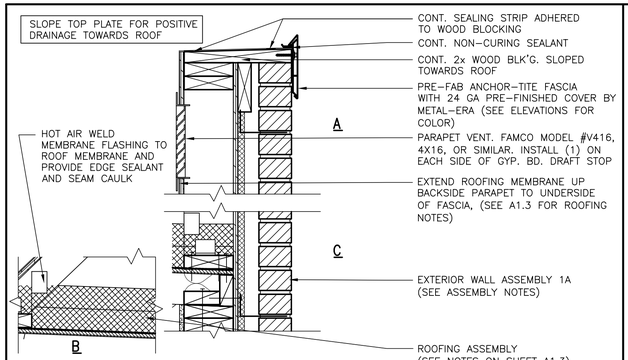

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|---|---|
| HM | 2023 11 |
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| GA | 9/6/2024 |

TITLE: 2024 STANDARD BUILDING – BB20
4584–WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
BRICK / ALPOLIC PANEL

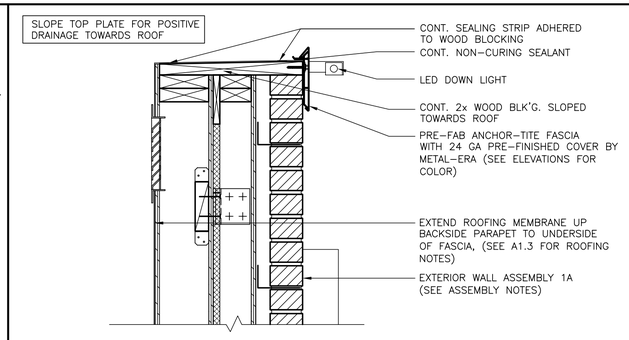
NSN: 10721 | SITE ADDRESS: 102 W CORNELIUS HARNETT BLVD
L/C: 032-0312 | LILLINGTON, NC

SHEET NO.
032-0312.00.0
A4.1
PLAN DETAILS



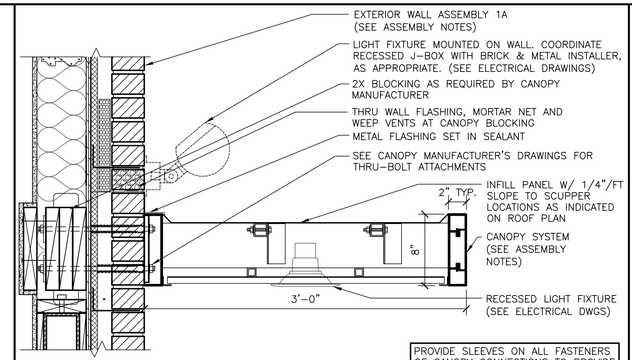

1 A5.0 **DETAIL– FASCIA @ PARAPET**

1 1/2" = 1'–0"




2 A5.0 **DETAIL– FASCIA @ AL PARAPET**

1 1/2" = 1'–0"




3 A5.0 **DETAIL– CANOPY ABOVE WINDOW**

1 1/2" = 1'–0"

PROVIDE SLEEVES ON ALL FASTENERS OF CANOPY CONNECTIONS TO PROVIDE CONSISTENT AND UNIFORM ATTACHMENT THROUGH BUILDING EXTERIOR WALL FINISH.

## EXTERIOR WALL ASSEMBLIES

FROM EXTERIOR TO INTERIOR

**1A. BRICK VENEER**

1. FULL HEIGHT MODULAR SIZE MASONRY, 4" BRICK VENEER (VISIBLE MASONRY) OR 4" CONCRETE BLOCK VENEER WITH INTEGRAL WATER REPELLENT (NON–VISIBLE), W/NON–CORROSIVE METAL TIES VERTICALLY & HORIZONTALLY PER STRUCTURAL. PROVIDE 10" HIGH MESH DOVETAIL CAVITY DRAINAGE SYSTEM. PROVIDE MESH WEEP VENTS 24" O.C. AT ALL FLASHING LOCATIONS. MORTAR: SM750 SILVERSTONE BY SPEC MIX OR EQ.
2. AIR SPACE – SIZE VARIES ACCORDING TO OVERALL WALL WIDTH. AT TYP. WALL, AIR SPACE IS 1 5/8" WIDE.

**1B. ALPOLIC ACM PANEL**

1. 4MM PE CORE ALPOLIC METAL PANEL (4CASM–BJ CLIP SYSTEM). SEE ELEVATIONS FOR COLOR. PROVIDE MFG. SHOP DRAWINGS TO ARCHITECT FOR REVIEW.
   ALPOLIC DAVID KEARNEY 757–286–1005
   dave_kearney@m–chem.com
2. OVER WALL ASSEMBLY 1A
2. 3/4" RIGID INSULATION, R–3.8 VALUE. TAPE ALL JOINTS HOR AND VERT.
3. PERMEABLE BUILDING WRAP OVER 1/2" EXTERIOR GRADE PLYWOOD. INSTALL PER LOCAL CODES AND MFR'S SPEC'S.
4. 2x6 WOOD STUD FRAMING @ 16" O.C. (WITH CONTINUOUS DRAFTSTOP/FIRESTOP BLOCKING AT FINISH CEILING LEVEL).
5. UNFACED BATT INSULATION (R VALUE = 21).
6. "CERTAINTEED MEMBRAIN" SMART VAPOR RETARDER (SEMI–VAPOR PERMEABLE) BY CERTAINTEED OR EQUAL.
7. 1/2" CEMENT BOARD SUBSTRATE FOR ALL TILE LOCATIONS. (TYP.) NON TILE LOCATIONS: 1/2" GYPSUM BOARD TO EXTEND TO DECK ABOVE. UNLESS NOTED OTHERWISE.
   ALL GYP. BOARD MUST SCORE 10 PER ASTM D3273. REFERENCE CURRENT PROJECT MANUAL.
8. SEE A1.0 & ROOM FINISH SCHEDULE FOR ADDITIONAL SUBSTRATE INFORMATION.

## EXTERIOR WINDOW ASSEMBLY

**(STOREFRONT & ENTRANCE SYSTEM )**

**TUBELITE: CHASITY DICKINSON – mcdonalds@tubeliteinc.com –214–288–5801**

**FIXED FENESTRATION: U VALUE = 0.40 MAX. U VALUE "DOOR" = 0.77 MAX. SHGC = 0.33 MAX. (0.25PT<0.5)**

1. DARK BRONZE ANODIZED ALUMINUM FRAME, THERMALLY BROKEN WITH HEAD RECEIVER CHANNEL.
2. 1" TEMPERED INSULATED GLAZING
3. PROVIDE FLASHING AT HEAD & SILL – CONTINUOUS SEALANT.
4. PROVIDE METAL SILL CAP AS SHOWN IN DETAILS
5. 1/2" CORIAN SILL AT INTERIOR

## CANOPY SYSTEM

CANOPY INFORMATION SHOWN IN CONSTRUCTION DOCUMENTS IS FOR DESIGN INTENT ONLY. APPROVED MANUFACTURERS SHALL PROVIDE A COMPLETE AND CODE COMPLIANT FINAL DESIGN. REFER TO ELEVATIONS FOR COLOR OF ELEMENTS

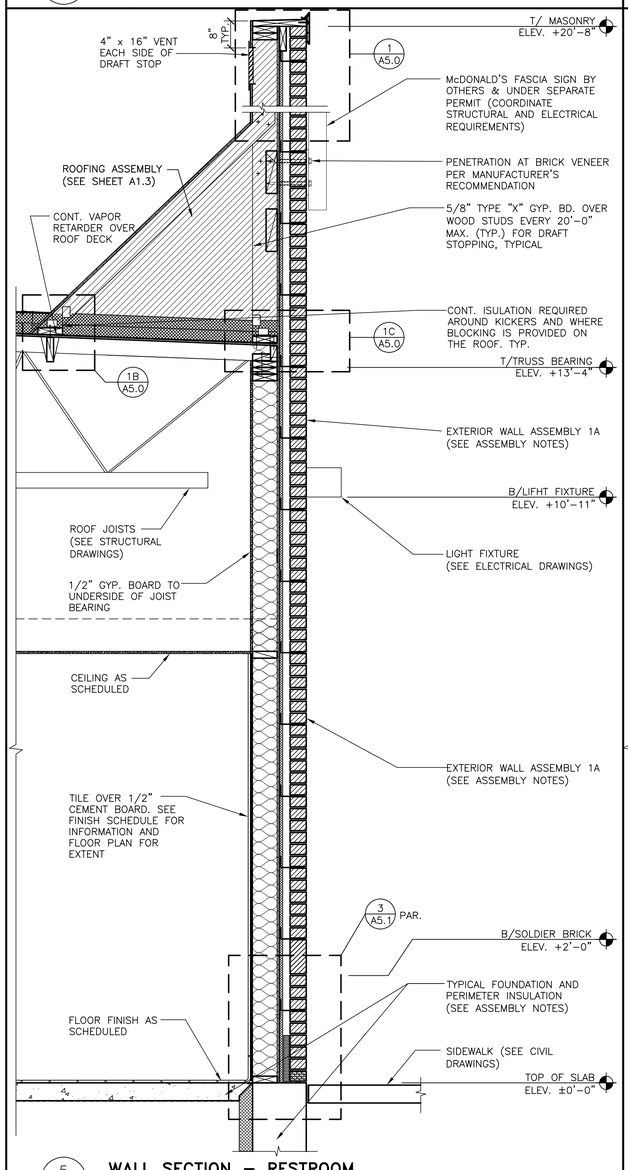
1. CANOPY STRUCTURE/OUTRIGGERS: CONT. 2" x 8" PAINTED ALUM. TUBE. PROVIDE CLOSURE PIECE WHERE TUBE ENDS ARE EXPOSED.
2. WHERE INDICATED ON ROOF PLAN, PROVIDE PAINTED ALUM. PANEL INFILL WITH INTEGRAL SCUPPER TO MATCH OUTRIGGERS. PANEL TO PROVIDE POSITIVE SLOPE FOR DRAINAGE.
3. SYSTEM SHALL ALLOW FOR MOVEMENT AT EXPANSION JOINTS AND FOR MOVEMENT OF EXTERIOR WALL SYSTEM ON WHICH THE CANOPY IS MOUNTED.
4. STRUCTURAL ATTACHMENTS & LOAD CALCULATIONS SHALL BE FURNISHED BY CANOPY SYSTEM DESIGNER OF RECORD. SUPPLIER'S DESIGNER OF RECORD SHALL DESIGN PER PREVAILING CODES.
5. CANOPY SYSTEM SHALL BE SELECTED FROM ONE OF THE SUPPLIERS LISTED BELOW.
6. MANUFACTURER SHALL PROVIDE INSTALLER WITH INSTALLATION INSTRUCTIONS. MANUFACTURER SHALL DESIGN CANOPY IN ACCORDANCE WITH THE WALL SYSTEM AND BLOCKING AS INDICATED IN THE CONSTRUCTION DOCUMENTS.
7. INSTALLER SHALL NOTIFY CANOPY DESIGNER OF RECORD, McDONALD'S ACM, G.C. AND ARCHITECT OF ANY DEFICIENCIES THAT WOULD NOT ALLOW FOR THE PROPER INSTALLATION OF THE CANOPY. CANOPY SHALL NOT BE INSTALLED UNTIL DEFICIENCIES HAVE BEEN CORRECTED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND THE CANOPY MANUFACTURER'S INSTALLATION INSTRUCTIONS.

CANOPY SYSTEM BY:

AWNEX (770) 704–7140 www.awnexinc.com
ALL–LITE (817) 509–2300 www.alllite.com
GREENHECK (715) 355–3942 www.greenheck.com

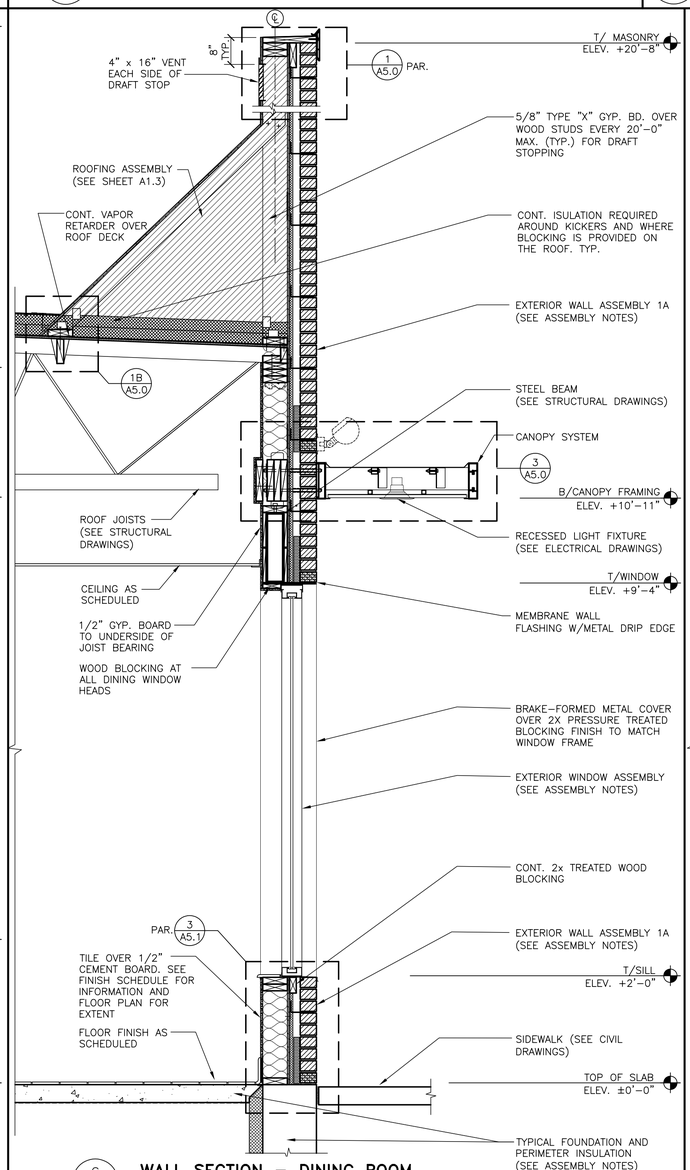
## FOUNDATION AND PERIMETER INSULATION

1. SEE STRUCTURAL DRAWINGS FOR FOUNDATION AND SLAB DETAILS
2. PROVIDE RIGID EXTERIOR INSULATION AS FOLLOWS:
   - VERTICALLY FROM TOP OF FOOTING TO TOP OF FOUNDATION WALL.
   - R–VALUE: R–15



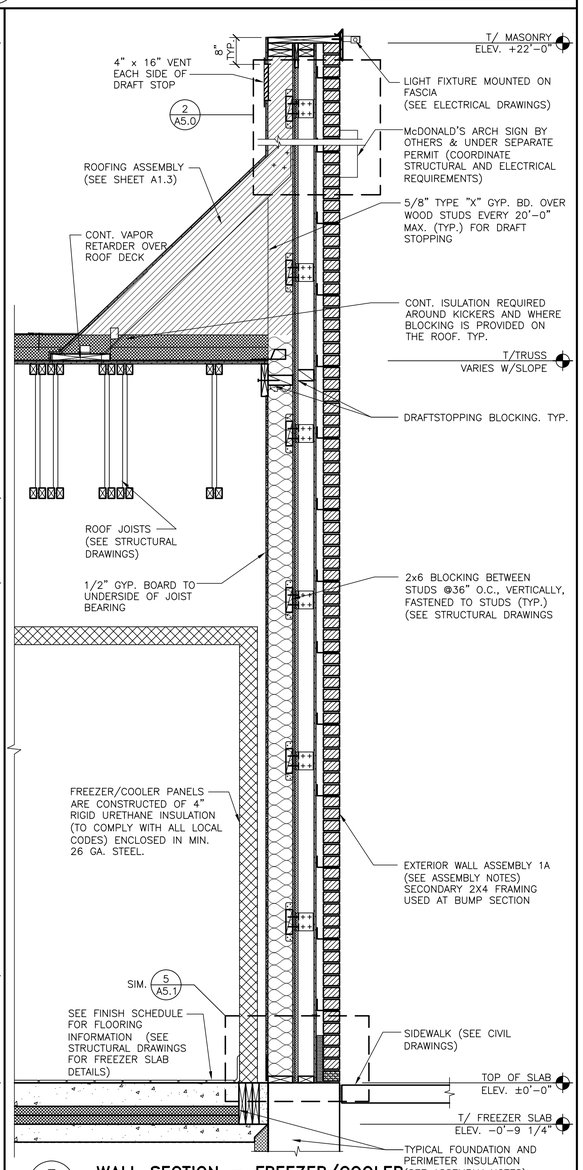

5 A5.0 **WALL SECTION – RESTROOM**

3/4" = 1'–0"




6 A5.0 **WALL SECTION – DINING ROOM**

3/4" = 1'–0"




7 A5.0 **WALL SECTION – FREEZER/COOLER**

3/4" = 1'–0"

4 A5.0 **ASSEMBLY NOTES**

| DATE: | REV | DATE | DESCRIPTION |
|---|---|---|---|
| | | | |

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TITLE: 2024 STANDARD BUILDING – BB20
4584–WOOD/WOOD

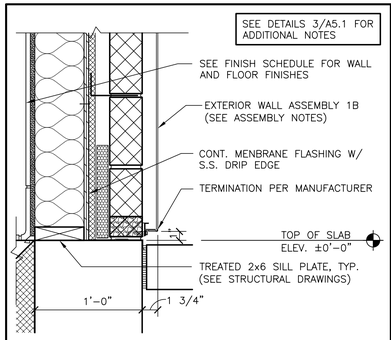
DESCRIPTION
WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & CI
WOOD TRUSS ROOF FRAMING
BRICK/ ALPOLIC PANEL

NSN: 10721–
L/C: 032–0312

SITE ADDRESS
102 W CORNELIUS HARNETT BLVD
LILLINGTON, NC

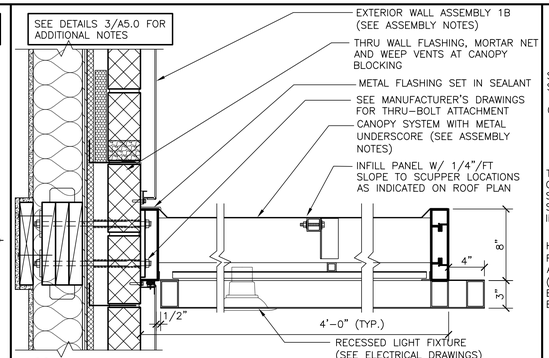
SHEET NO.
032–0312.00.0
A5.0
WALL SECTIONS

PROJECT No. 60734777 Task: 032–0312



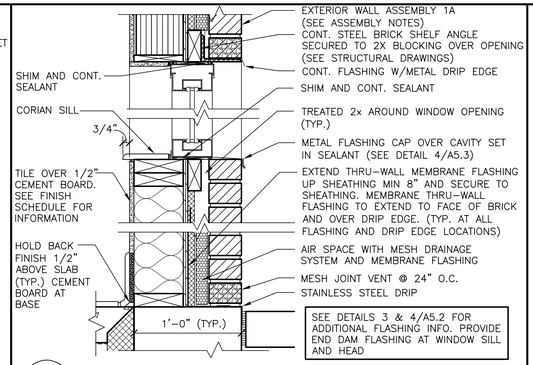

1 A5.1 **DETAIL– APOLIC TERMINATION**

1 1/2" = 1'-0"



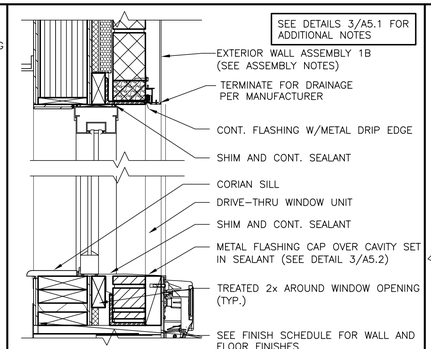

2 A5.1 **DETAIL– DRIVE THRU CANOPY SYSTEM**

1 1/2" = 1'-0"



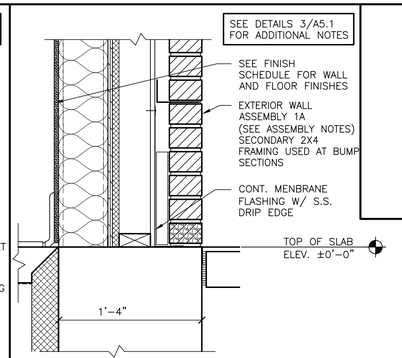

3 A5.1 **SECTION @ WINDOW**

1 1/2" = 1'-0"



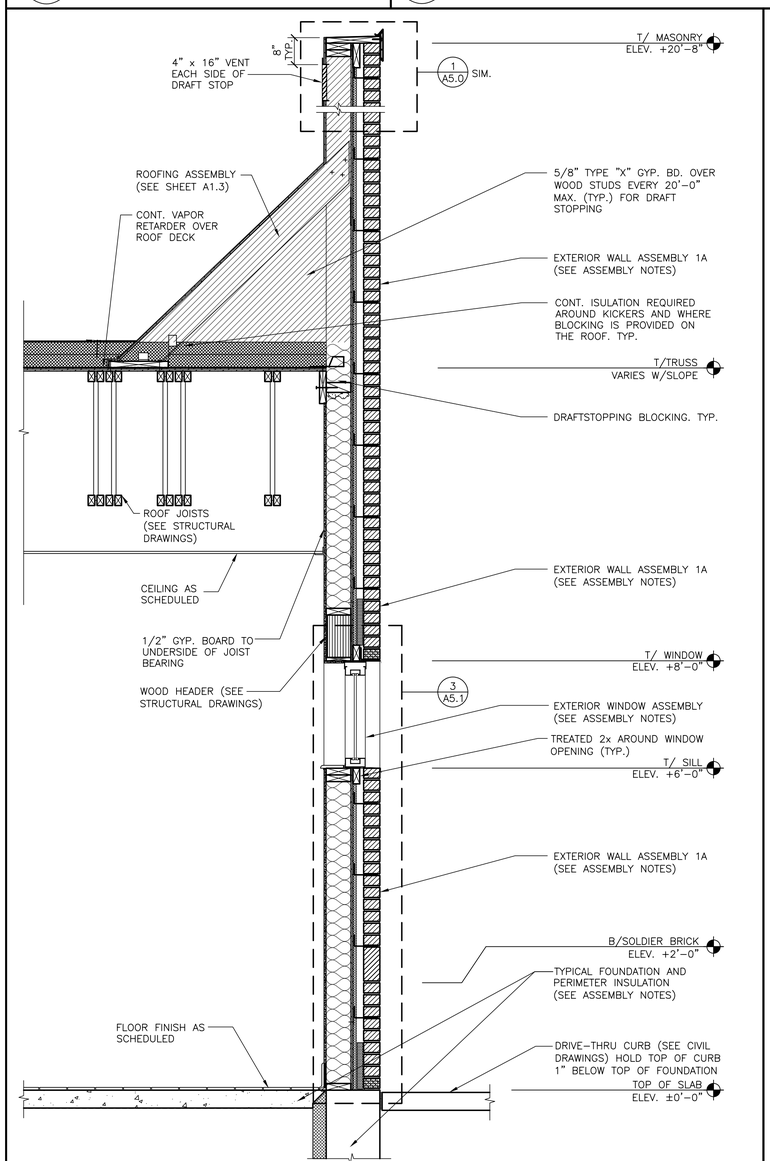

4 A5.1 **SECTION @ DRIVE-THRU WINDOW**

1 1/2" = 1'-0"



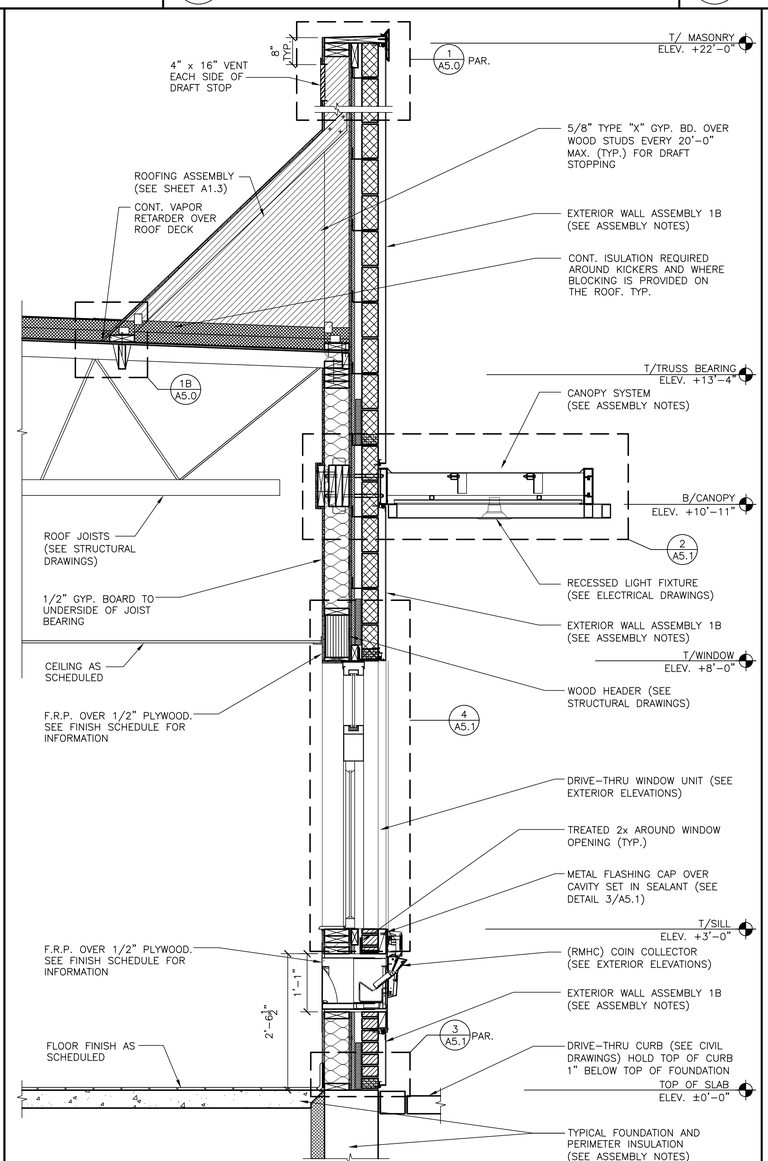

5 A5.1 **TERMINATION DETAIL**

1 1/2" = 1'-0"



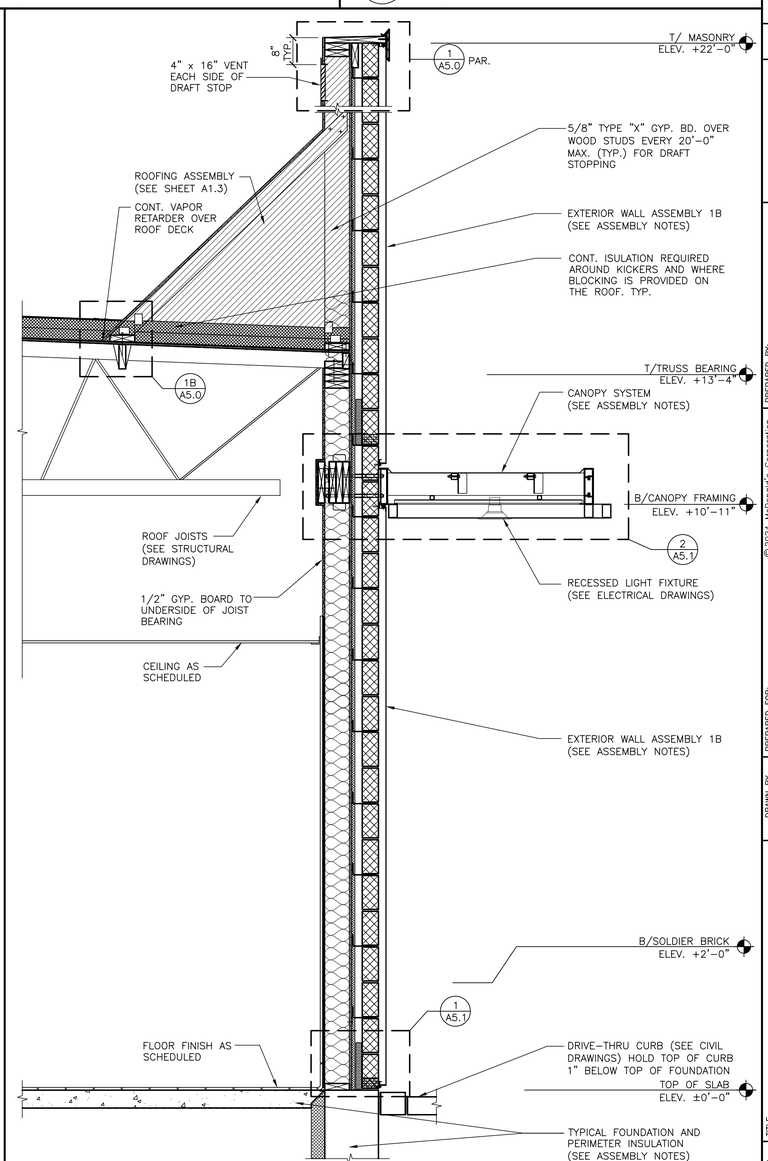

6 A5.1 **WALL SECTION – CREW ROOM**

3/4" = 1'-0"




7 A5.1 **WALL SECTION – ORDER WINDOW**

3/4" = 1'-0"




8 A5.1 **WALL SECTION – PRESENTER WINDOW**

3/4" = 1'-0"

| NO. | DESCRIPTION | REV | DATE |
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| | | | |

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TITLE: 2024 STANDARD BUILDING – BB20
4584–WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & CI
WOOD TRUSS ROOF FRAMING
BRICK/ ALPOLIC PANEL

HSN: 10721

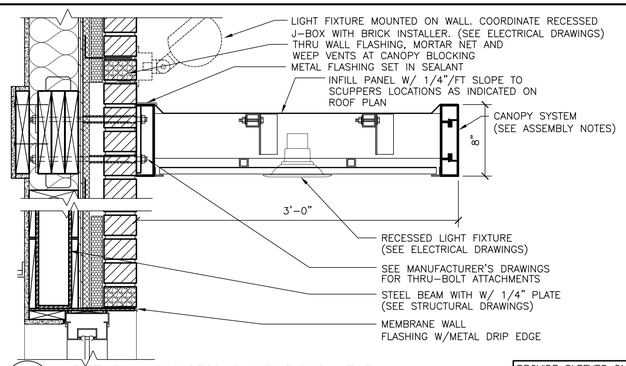
SITE ADDRESS
102 W CORNELIUS HARNETT BLVD
LILLINGTON, NC

L/C: 032-0312

SHEET NO. 032-0312.00.0

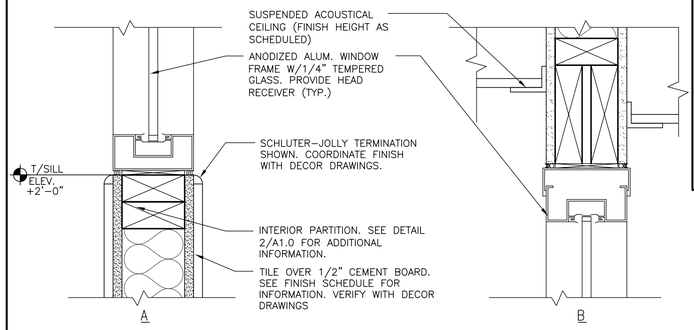
A5.1
WALL SECTIONS

PROJECT No. 60734777 Task: 032-0312

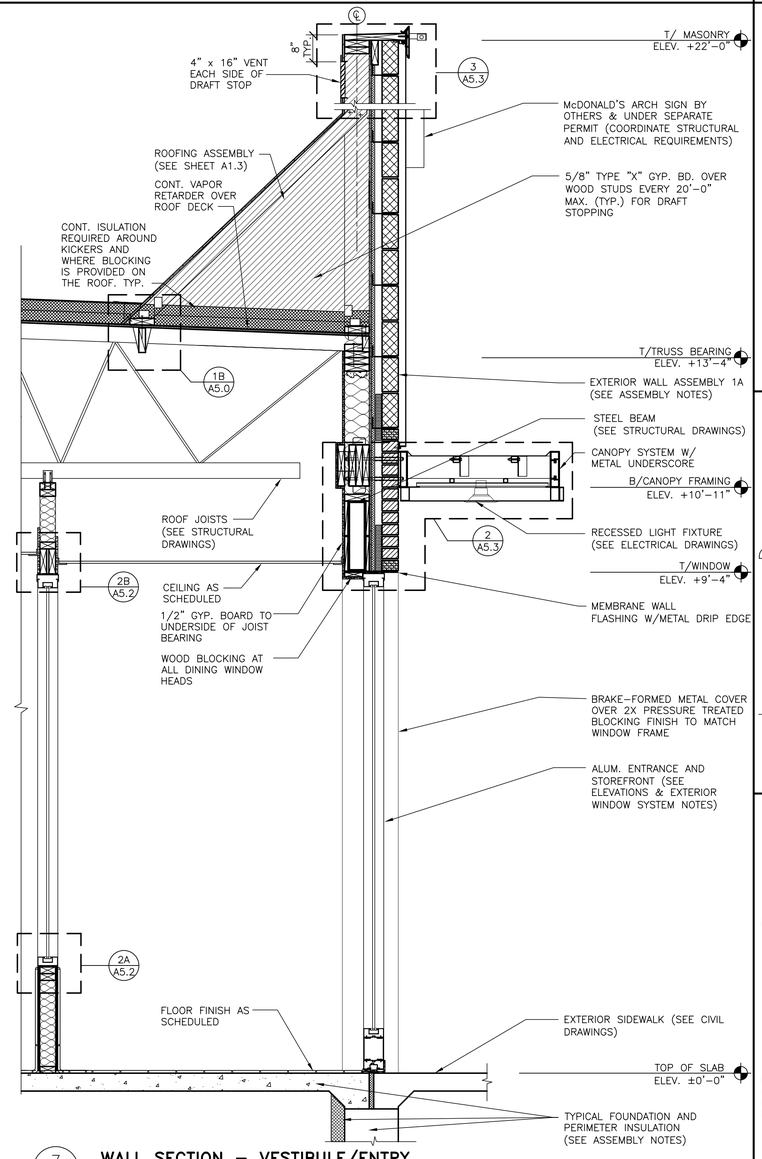



8 A5.2 **DETAIL– CANOPY @ WINDOW HEAD**
1 1/2" = 1'-0"

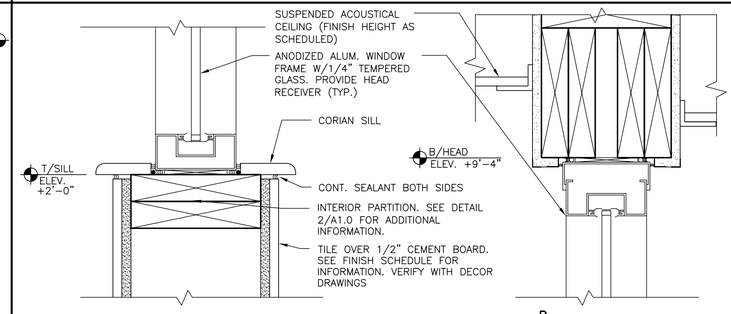
PROVIDE SLEEVES ON ALL FASTENERS OF CANOPY CONNECTIONS TO PROVIDE CONSISTENT AND UNIFORM ATTACHMENT THROUGH BUILDING EXTERIOR WALL FINISH.



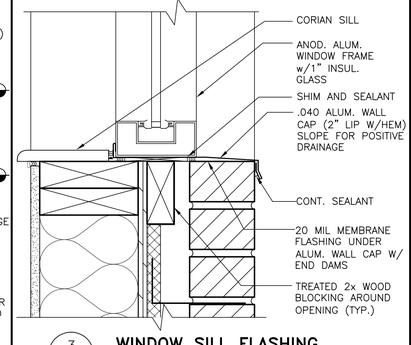

2 A5.2 **HEAD & SILL INTERIOR VESTIBULE WALL**
3" = 1'-0"



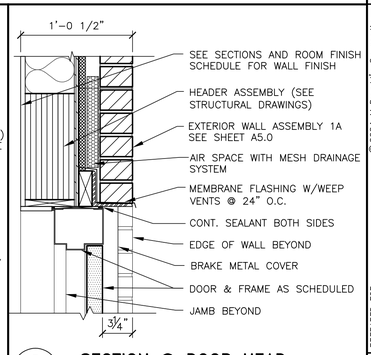

7 A5.2 **WALL SECTION – VESTIBULE/ENTRY**
3/4" = 1'-0"



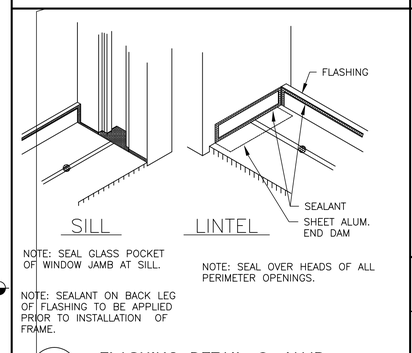

2 A5.2 **HEAD & SILL @ INTERIOR VESTIBULE WALL**
3" = 1'-0"



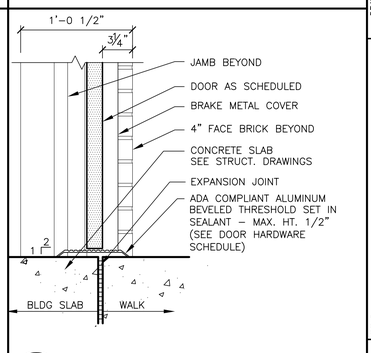

3 A5.2 **WINDOW SILL FLASHING**
3" = 1'-0"




5 A5.2 **SECTION @ DOOR HEAD**
1 1/2" = 1'-0"




4 A5.2 **FLASHING DETAIL @ JAMB**
N.T.S.




6 A5.2 **SECTION @ DOOR SILL**
1 1/2" = 1'-0"

| REV | DATE | DESCRIPTION |
|---|---|---|
| | | |

DATE: .....

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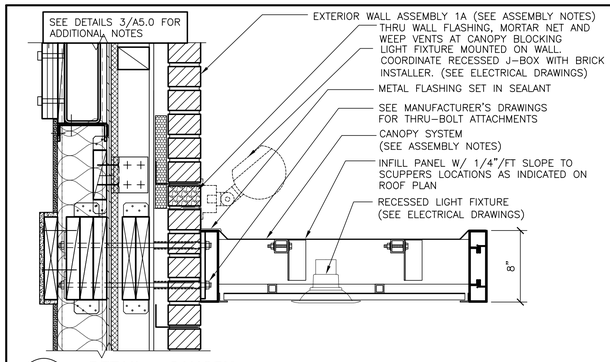
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WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & CI
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LC: 032–0312 | LILLINGTON, NC

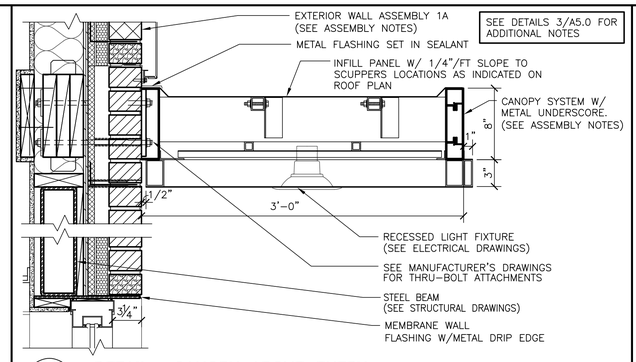
SHEET NO.
032–0312.00.0
**A5.2**
WALL SECTIONS

PROJECT No. 60734777 Task: 032–0312




1 A5.3 **DETAIL– CANOPY**

1 1/2" = 1'–0"

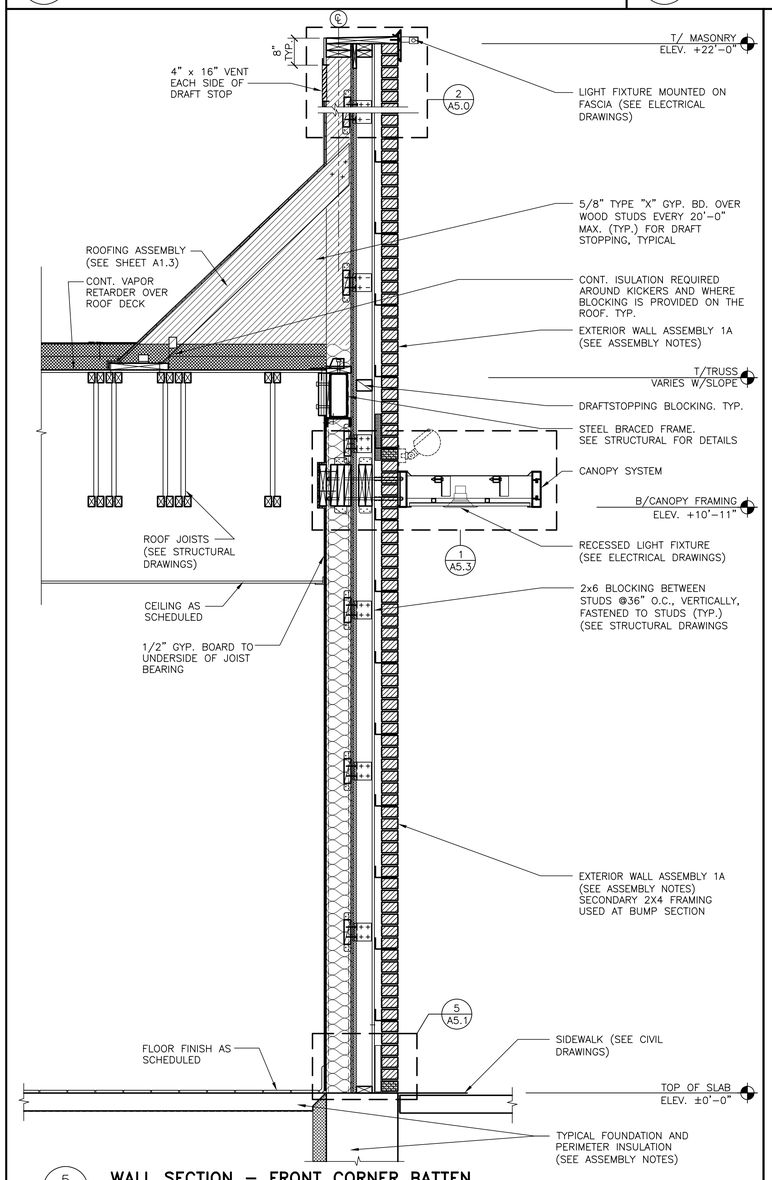



2 A5.3 **DETAIL– CANOPY ABOVE ENTRY**

1 1/2" = 1'–0"

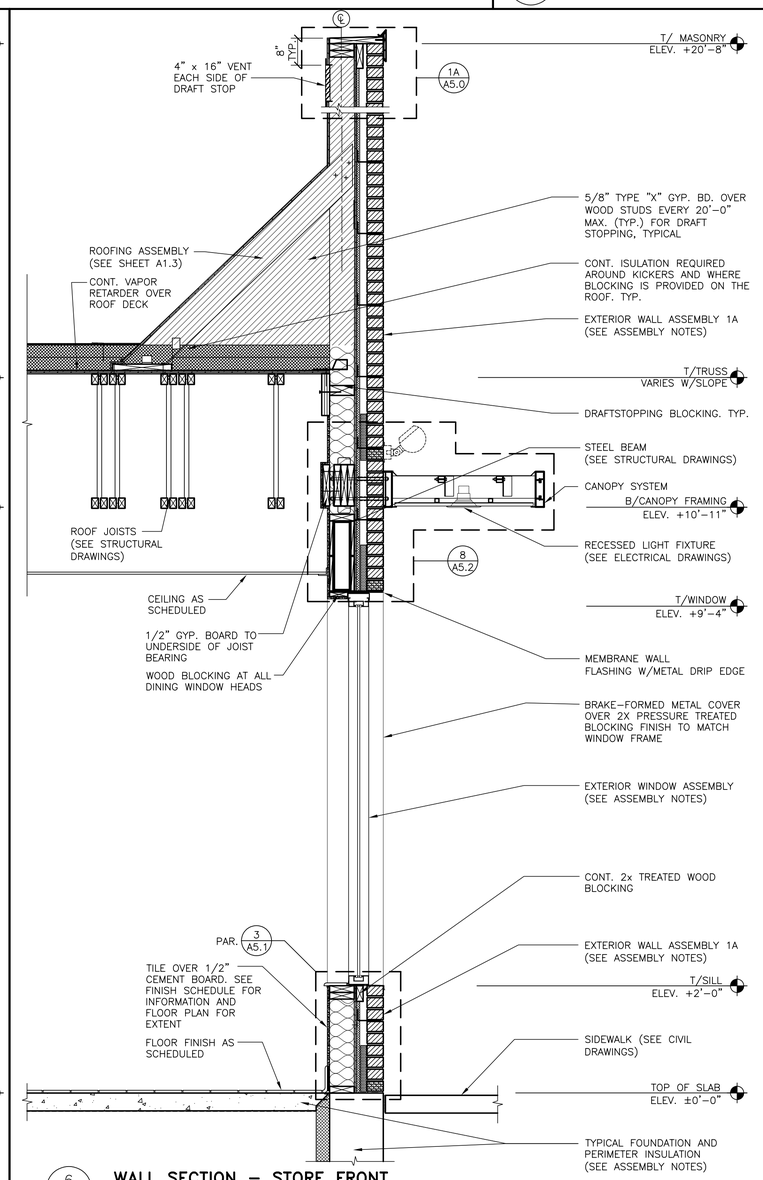
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4 A5.3 **NOT ISED**



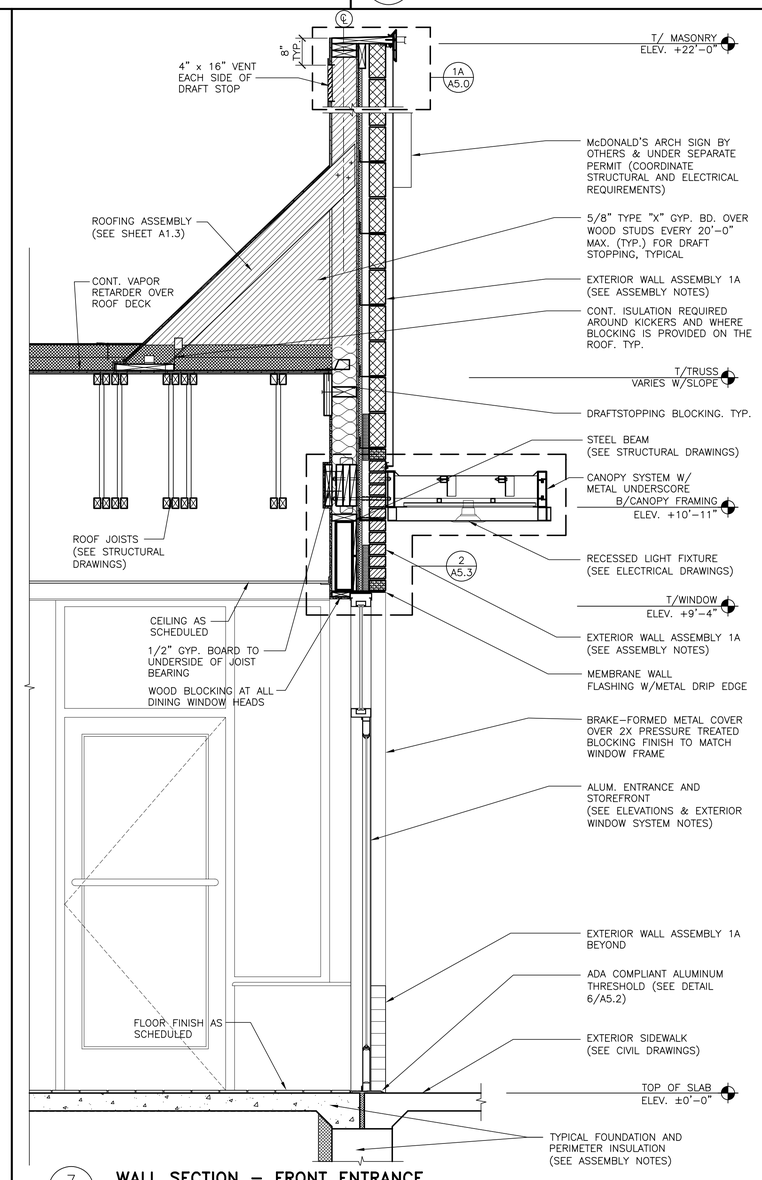

5 A5.3 **WALL SECTION – FRONT CORNER BATTEN**

3/4" = 1'–0"




6 A5.3 **WALL SECTION – STORE FRONT**

3/4" = 1'–0"




7 A5.3 **WALL SECTION – FRONT ENTRANCE**

3/4" = 1'–0"

| REV | DATE | DESCRIPTION |
|---|---|---|
| | | |

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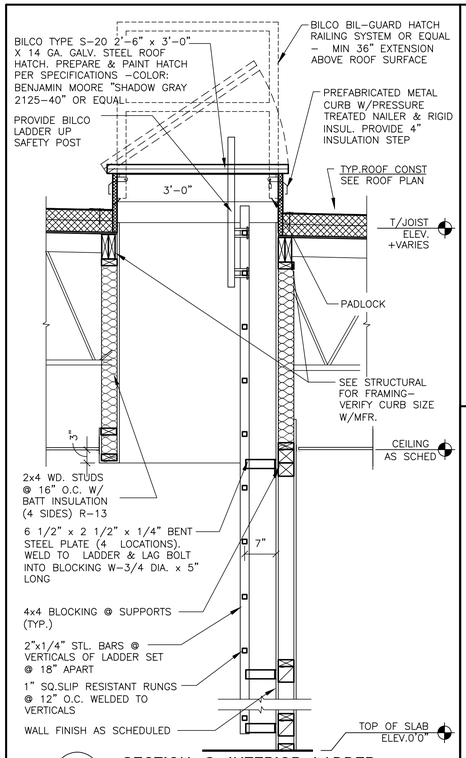
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BRICK/ ALPOLIC PANEL

NSN: 10721 L/C: 032–0312

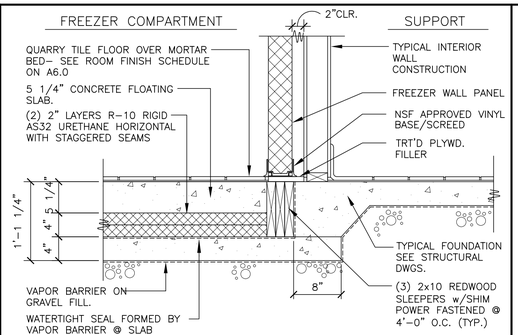
SITE ADDRESS
102 W CORNELIUS HARNETT BLVD
LILLINGTON, NC

SHEET NO. A5.3
032–0312.00.0
WALL SECTIONS

PROJECT No. 60734777 Task: 032–0312

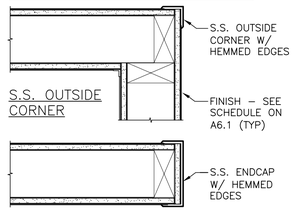



1 A6.0 **SECTION @ INTERIOR LADDER**
3/4"=1'–0"

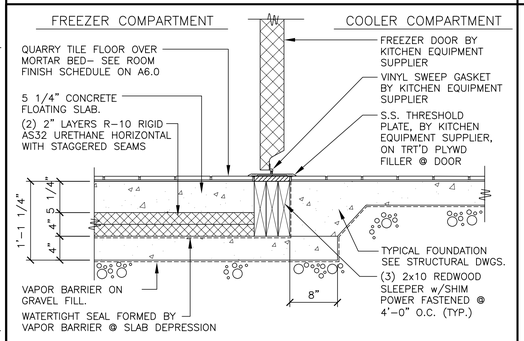



2 A6.0 **FREEZER FLOOR DETAIL @ INT. WALL**
1"=1'–0"

NOTE:
1. BUTT FINISH & TRIM PIECES TO S.S. ENDCAP & CORNER GUARD.
2. CORNER GUARDS & END CAPS TYPICAL AT KITCHEN, SUPPORT ROOM, & SELF SERVE BEVERAGE AREAS
3. SEE 'CG' KEY NOTE ON A1.0

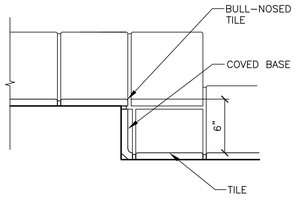



4 A6.0 **STAINLESS STEEL DETAILS**
1/2"=1'–0"



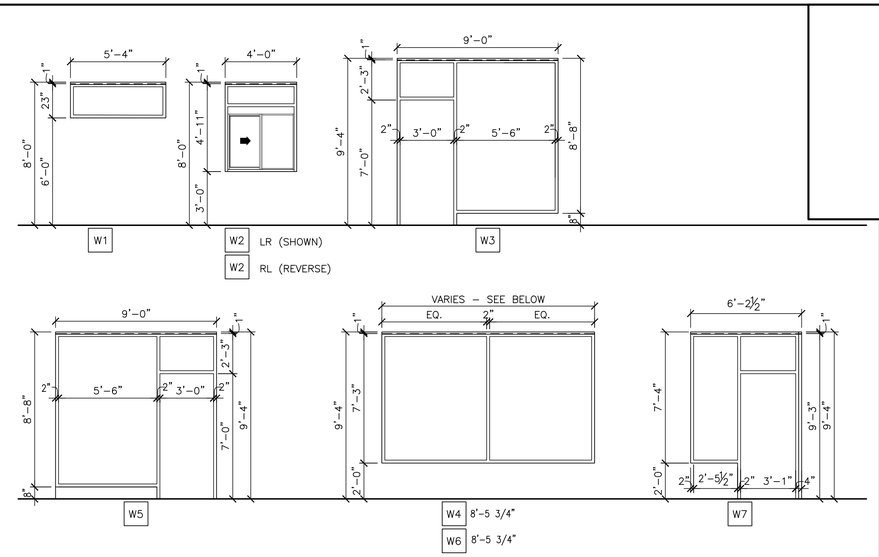

3 A6.0 **FREEZER FLOOR DETAIL @ DOOR**
1"=1'–0"

NOTE:
SEE FINISH SCHEDULES & DETAILS ON SHEET A6.1 FOR BASE INFORMATION. STEP BASE MATERIAL W/RAISED SLAB




5 A6.0 **DETAIL RAISED SLAB**

FRAME TYPES




## EXTERIOR WINDOW ASSEMBLY
## (STOREFRONT & ENTRANCE SYSTEM)

FOR GLAZING & FRAME REQUIREMENTS: SEE EXTERIOR WINDOW ASSEMBLY, 4/A5.0

## INTERIOR WINDOW ASSEMBLY
## (STOREFRONT & ENTRANCE SYSTEM)

1. BRONZE ALUMINUM FRAME, THERMALLY BROKEN WITH HEAD RECEIVER CHANNEL.
2. 1/4" CLEAR TEMPERED GLAZING
3. 1/2" CORIAN SILL EACH SIDE

| MARK | DESCRIPTION | DATE |
|---|---|---|
| B | DOOR SIZE REVISD PER 00 REQUEST | 7/24/2025 |

DATE:

PREPARED BY:
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ARCHITECTURE
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DOOR HARDWARE

GENERAL NOTES:
1. ALL EXIT DOORS SHALL BE KEYLESS IN THE DIRECTION OF EGRESS.
2. THE OPENING FORCE OF ALL EXT. PUSH/PULL DOORS SHALL NOT EXCEED 8 1/2 LBS.
3. THE OPENING FORCE OF ALL INTERIOR PUSH/PULL DOORS SHALL NOT EXCEED 5 LBS.
4. PROVIDE PANIC HARDWARE FOR ALL EXTERIOR DOORS AS NOTED ON THE DOOR SCHEDULE.
5. ALL DOOR HARDWARE SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE.

DOOR #1 – ENTRY DOOR/EMERGENCY EXIT
1. 1 EA CLOSER LCN 4021 x 18
2. 3 EA HINGES OFFSET PIVOT ANSI –A–156.4 GRADE 1; PROVIDE EXPOSED PARTS OF CAST ALUMINUM ALLOY, AS SUPPLIED BY DOOR MANUFACTURER.
3. 1 EA PULL HANDLE ROCKWOOD MFG. MODEL: RM3311, SIZE: 1–1/4" DIA. CTC: 5'–10". FINISH: TO MATCH STOREFRONT DOOR. OFFSET MOUNTING: TYPE 1XHD – THRU BOLT HEAVY DUTY
4. 1 EA PANIC HARDWARE ADAMS RITE MFG. CO. 8800 SERIES WITH OUTSIDE CYLINDER (FINISH TO MATCH STOREFRONT DOOR)
5. 1 EA THRESHOLD NATIONAL GUARD PRODUCTS, INC. SADDLE TYPE THRESHOLD 325, 36" WIDE x 1/2" RISE (ADA ACCESSIBLE).
6. 1 EA WEATHER STRIPPING: PROVIDE COMPRESSION WEATHER STRIPPING AGAINST FIXED STOPS. AT OTHER EDGES PROVIDE SLIDING WEATHER STRIPPING RETAINED IN ADJUSTABLE STRIP MORTISED INTO DOOR EDGE. PROVIDE EPDM OR VINYL GASKET WEATHER STRIPPING IN BOTTOM DOOR RAIL ADJUSTABLE FOR CONTACT W/ THRESHOLD.
7. 1 EA SIGN MOUNT ONTO DOOR, TO READ "THIS DOOR MUST REMAIN UNLOCKED WHENEVER THE BUILDING IS OCCUPIED/DURING BUSINESS HOURS."

DOOR #2 & #2A– VESTIBULE
1. 1 EA CLOSER LCN 4041 x 18
2. 3 EA HINGES OFFSET PIVOT ANSI –A–156.4 GRADE 1; BY DOOR MANUFACTURER.
3. 1 EA PUSH/PULL HANDLE HAGER PUSH/PULL SET 164D/V/B.
4. 1 EA (DOOR #2A) PANIC HARDWARE ADAMS RITE MFG. CO. 8800 SERIES WITH OUTSIDE CYLINDER (FINISH TO MATCH STOREFRONT DOOR)

DOOR #3 – STORAGE DELIVERY
1. 1 EA HINGE 780–112HD 83" ALUM HAGER
2. 1 EA CLOSER 4111 H–CUSH ALUM LCN
3. 1 EA PANIC 9975EO–LD 48" SP28 V.DUPRIN
4. 1 EA TRIM 990DT US26D V.DUPRIN
5. 1 EA ALARM LOCK PG21MSS ALARM
6. 1 EA LOCKGUARD CLP110 US32D DON–JO
7. 1 EA TREADPLATE 24 X 46 UMCO
8. 1 EA WTH/STP160V 48 X 84 N.GUARD
9. 1 EA THRESHOLD 325HD 48" N.GUARD
10. 1 EA SWEEP 101VA 48" N.GUARD
11. 1 EA VIEW FRAME LVGLFMD 9 X 9 DKB W/FLAP ON INSIDE N.GUARD
12. 1 EA MORTISE CYL HOUSING 7PIN SFIC 626
13. 1 EA 7 PIN CONSTRUCTION CORE FOR ABOVE 626
14. 1 EA CONTROL KEY FOR ABOVE

DOOR #3A – FREEZER DELIVERY
1. 1 EA HINGE780–112HD 83" ALUM HAGER
2. 1 EA DEADBOLT B661P 626 SCHLAGE
3. 1 EA PULL H3E US28 HAGER
4. 1 EA LOCKGUARD CLP110 US32D DON–JO
5. 1 EA TREADPLATE 24 X 46 UMCO
6. 1 EA WTH/STP 160V 48 X 84 N.GUARD
7. 1 EA THRESHOLD 325HD 48" N.GUARD
8. 1 EA SWEEP 101VA 48" N.GUARD

DOOR #4 – REAR EXIT
1. 1 EA HINGE 780–112HD 83" ALUM HAGER
2. 1 EA CLOSER 4111 H–CUSH ALUM LCN
3. 1 EA PANIC 9975EO–LD 48" SP28 V.DUPRIN
4. 1 EA TRIM 990DT US26D V.DUPRIN
5. 1 EA ALARM LOCK PG21MSS ALARM
6. 1 EA LOCKGUARD CLP110 US32D DON–JO
7. 1 EA TREADPLATE 24 X 46 UMCO
8. 1 EA WTH/STP160V 48 X 84 N.GUARD
9. 1 EA THRESHOLD 325HD 48" N.GUARD
10. 1 EA SWEEP 101VA 48" N.GUARD
11. 1 EA VIEW FRAME LVGLFMD 9 X 9 DKB W/FLAP ON INSIDE N.GUARD
12. 1 EA MORTISE CYL HOUSING 7PIN SFIC 626
13. 1 EA 7 PIN CONSTRUCTION CORE FOR ABOVE 626
14. 1 EA CONTROL KEY FOR ABOVE

DOOR #5 – RESTROOM ENTRY
1. 3 EA HINGE BB1279 4 ½ X 4 ½ US26D HAGER
2. 1 EA CLOSER LDPA4031 SNB ALUM LCN
3. 1 EA PUSH PLATE 30S 4 X 32 US32D 40"AFF MOUNTED TO CENTER OF PLATE
4. 1 EA PULL PLATE LADDER PULL HANDLE WITH DECORATIVE FIXING, 32"L 1"DIA #S–32–1000 – UMCO 32D. 40" AFF MOUNTED CENTER OF PULL
   ALT. OPTION: 1 EA PULLPLATE SANITGRASP
   ALT. OPTION: 1 EA PULL–PUSH BUTTON CYLINDRICAL LOCK – TRILOGY DL2700 US26D CHROME
5. 2 EA KICKPLATE 190S 8 X 34 US32D HAGER
6. 1 EA DOOR STOP 236W US32D HAGER
7. 1 EA FINGER GRD MKIA PUSH SIDE BRN F.SAFE
8. 1 EA FINGER GRD MKIB PULL SIDE BRN F.SAFE
9. 1 EA STEPNPULL PULL SIDE (OPTIONAL)

DOOR #6 – ADA STALL
1. 2 EA HINGE 1250 4 ½ X 4 ½ US26D HAGER
2. 1 EA HINGE BB1279 4 ½ X 4 ½ US26D HAGER
3. 1 EA DEADBOLT B571 X 10–087 214EE X 12 X 291 X 626 SCHLAGE
4. 2 EA BACK TO BACK LADDER PULL HANDLE, 16"L, 1"DIA #S–16–1000 BTB–UMCO 32D MOUNTED 6" FROM EDGE OF DOOR TO CENTER OF SCREWS – 28½" MOUNTED 28½" FROM TOP OF DOOR TO C/L OF PULL
5. 1 EA ROBE HOOK 917 BRADLEY
6. 1 EA DOOR STOP 236W US32D HAGER

DOOR #6A – STANDARD STALL
1. 2 EA HINGE 1250 4 ½ X 4 ½ US26D HAGER
2. 1 EA HINGE BB1279 4 ½ X 4 ½ US26D HAGER
3. 1 EA DEADBOLT B571 X 10–087 214EE X 12 X 291 X 626 SCHLAGE
4. 2 EA BACK TO BACK LADDER PULL HANDLE, 16"L, 1"DIA #S–16–1000 BTB–UMCO 32D MOUNTED 6" FROM EDGE OF DOOR TO CENTER OF SCREWS – 28½" MOUNTED 28½" FROM TOP OF DOOR TO C/L OF PULL
5. 1 EA ROBE HOOK 917 BRADLEY
6. 1 EA DOOR STOP 236W US32D HAGER

DOOR #7 – DINING ROOM JANITORS CLOSET
1. 3 EA HINGE BB1279 4 ½ X 4 ½ US26D HAGER
2. 1 EA LOCK ND80PD RHO 626 SCHLAGE

DOOR #8 – COMPUTER CLOSET (NOT USED)

DOOR #8A – COMPUTER CLOSET
1. 8 EA HINGE BB1279 4 ½ X 4 ½ US26D HAGER
2. 1 EA LOCK ND80PD RHO 626 SCHLAGE
3. 2 EA FLUSH BOLT 283D US26D HAGER

DOOR #9 – COOLER
1. ALL DOOR HARDWARE FOR THE REFRIGERATED COOLER / FREEZER SHALL BE PROVIDED BY THE MANUFACTURER.
   MANUFACTURER: KOLPAK @ HY 641 N. McCORKLE PARK ROAD PARSONS, TN 38363 PHONE: 800–344–4675
   HARDWARE PROVIDED:
   1. MAGNETIC PERIMETER DOOR GASKET
   2. THRESHOLD REINFORCED PLASTIC (FRP)
   3. POSI–SEAL DOOR CLOSURE
   4. STATIONARY CHROME DOOR PULL HANDLE
   5. INTERIOR SAFETY RELEASE HANDLE
   6. HINGES – BRUSHED CHROME CAST ALLOY

DOOR #10
1. 1 EA HINGE 780–112HD 83" ALUM HAGER
2. 1 EA CLOSER 1461 RW/PA ALUM LCN
3. 1 EA LOCK ND80PD RHO 626 SCHLAGE
   OPTIONAL – FOR OUTSWING DOOR REPLACE WITH 3A&B:
   3A. 1 EA PANIC 9975EO–LD 36" SP28 V.DUPRIN
   3B. 1 EA TRIM 990DT US26D V.DUPRIN
4. 1 EA ELEC STRIKE 6211 24V DC FSE US32D SCHLAGE
5. 1 EA PWR SUPPLY PS902 SCHLAGE
6. 1 EA ANNUNCIATOR BSV–24P SURFACE MOUNTED
7. 3 EA PUSH BUTTON 621–BK–DA HDP 626 SCHLAGE
8. 1 EA PUSH BUTTON 621–RD–DA HDP 626 SCHLAGE
9. 1 EA HORN WITH STROBE 1910S SCHLAGE
10. 1 EA GLASS 5 X 26 X ¼ UMCO
11. 1 EA VIEW FRAME LFRA100 6 X 27 DKB N.GUARD
12. 1 EA GLASS 5 X 26 X ¼ UMCO

DOOR #11 (NOT USED) PLAYPLACE RESTROOM

DOOR #12 (EMERGENCY EXIT ONLY) (NOT USED) – PLAYPLACE EMERGENCY EXIT

DOOR #13 (NOT USED) 38111 COUNTER DOOR

DOOR #14 (NOT USED) MANAGERS OFFICE

DOOR #15 CO2
1. 1 EA HINGE 780–112HD 83" ALUM HAGER
2. 1 EA LOCK ND80PD RHO 626 SCHLAGE
3. 1 EA LOCK GUARD CLP110 US32D DON JO
4. 1 EA WTH/STP 160V 36 X 84 N.GUARD
5. 1 EA THRESHOLD 425E 36" N.GUARD
6. 1 EA SWEEP 101VA 36" N.GUARD
7. 1 EA SEC. LOUVER LVRSG–3 DKB 18 X 18 N.GUARD

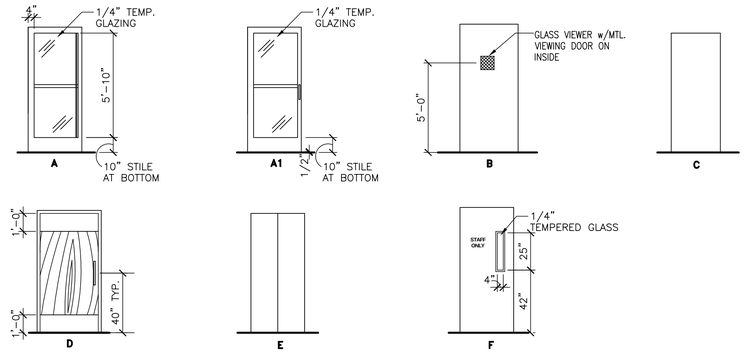
DOOR #16 (NOT USED) CREW ROOM

DOOR SCHEDULE

## DOOR SCHEDULE

| MARK | DOOR MATERIAL | DOOR SIZE | DOOR TYPE | FRAME MATL | FRAME SIZE |
|---|---|---|---|---|---|
| 1 | ALUM. | 3'–0"x7'–0"x1 3/4" | A | ALUM. | (NOTE 5) |
| 2 | ALUM. | 3'–0"x7'–0"x1 3/4" | A1 | ALUM. | (NOTE 5) |
| 2A | ALUM. | 3'–0"x7'–0"x1 3/4" | A1 | ALUM. | (NOTE 5) |
| 3 | H.M. | 4'–0"x7'–0"x1 3/4" | B | H.M. | 2"JAMB 4"HD |
| 3A | H.M. | 4'–0"x7'–0"x1 3/4" | C | H.M. | 2"JAMB 4"HD |
| 4 | H.M. | 4'–0"x7'–0"x1 3/4" | B | H.M. | 2"JAMB 4"HD |
| 5 | S.C. WOOD W/ LAM. | 3'–0"x6'–8"x1 3/4" | C | H.M. | 2"JAMB & HEAD |
| 6 | S.C. WOOD W/ LAM. | 3'–0"x4'–8"x1 3/4" | D | H.M. | 2"JAMB & HEAD |
| 6A | S.C. WOOD W/ LAM. | 2'–6"x4'–8"x1 3/4" | D | H.M. | 2"JAMB & HEAD |
| 7 | S.C. WOOD W/ LAM. | 3'–0"x6'–8"x1 3/4" | C | H.M. | 2"JAMB & HEAD |
| 8 | | NOT USED | | | |
| 8A | S.C. WOOD W/ LAM. | (2) 1'–2"x6'–0"x1 3/4" | E | H.M. | 2"JAMB & HEAD |
| 9 | INSULATED METAL | 3'–0"x6'–6"x4" | C | N/A | N/A |
| 10 | H.M. | 3'–0"x7'–0"x1 3/4" | F | H.M. | 2"JAMB & HEAD |
| 11 | | NOT USED | | | |
| 12 | | NOT USED | | | |
| 13 | | NOT USED | | | |
| 14 | | NOT USED | | | |
| 15 | H.M. | 3'–0"x7'–0"x1 3/4" | C | H.M. | 2"JAMB 4"HD |
| 16 | | NOT USED | | | |

GENERAL DOOR NOTES:
1. GC TO INSTALL ACCESSIBILITY DOOR SIGNS WHERE REQ'D BY LOCAL CODES – SEE GENERAL NOTE 6, SHEET A1.0
2. ALARM CONTACT SWITCHES SHALL BE RECESSED INTO THE TOP OF THE DOOR & HOLLOW METAL FRAME ABOVE.
3. DOORS, DOOR FRAMES, & HARDWARE FOR DOORS 3, 3A, 4, 5, 6, 6A, 7, 8, 8A, 10, 11, 12, 14, 15, 16 SUPPLIED BY: UNIVERSAL MANUFACTURING 1–800–821–1414.
4. DOOR 9 SUPPLIED BY FREEZER/COOLER MANUFACTURER
5. SEE ELEVATIONS AND WALL SECTIONS
6. ALL INTERIOR SOLID CORE WOOD DOORS TO HAVE A LAMINATED FINISH.
7. DOOR 8 & 8A – 1" UNDERCUT FOR MAKE UP AIR. LAMINATED FINISH – "WILSONART DOVE GREY" D92–60
8. DOOR 3, 3A, 4 & 15 TO HAVE MAXIMUM U VALUE = 0.61
9. DOOR 5 RESTROOM EXTERIOR, 7 – LAMINATED FINISH, PER DECOR PORTFOLIO:
   GEOMETRY – "LAMITECH 2315 MT DARKSTEEL"
   FRAME FINISH – BENJAMIN MOORE "GRAY 2121–10"
   LUNA – "LAMITECH 1467 MT LINEAL OAK"
   FRAME FINISH – BENJAMIN MOORE "GRAY 2121–10"
   ROUTE 66 – "WILSONART NORTH SEA D90–60"
   FRAME FINISH – BENJAMIN MOORE "WHALE GRAY 2134–40"
   RAY – "LAMITECH 2255 MT IRON"
   FRAME FINISH – BENJAMIN MOORE "MIDNIGHT OIL 1631"
10. DOOR 5 RESTROOM INTERIOR, 6, 6A – LAMINATED FINISH – "LAMITECH ONTARIO OAK 1540 PW"
    FRAME FINISH BENJAMIN MOORE "GRAY 2121–10"




DOOR TYPES

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PREPARED FOR:
McDonald's USA, LLC

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| HM | |
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| DATE ISSUED | |
| 9/6/2024 | |

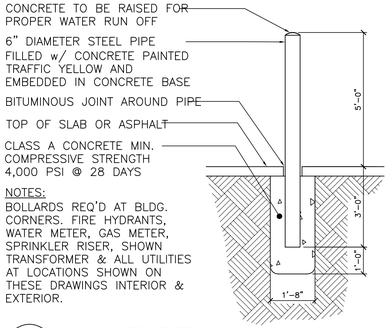
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2024 STANDARD BUILDING – BB20
4584–WOOD/WOOD

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WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & CI
WOOD TRUSS ROOF FRAMING
BRICK / ALPOLIC PANEL

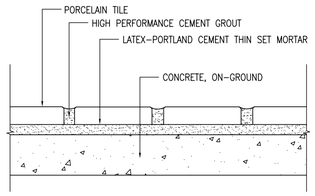
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L/C: 032–0312

SITE ADDRESS
102 W CORNELIUS HARNETT BLVD
LILLINGTON, NC

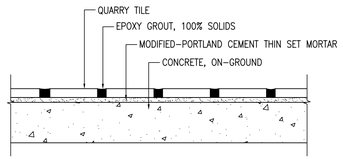
SHEET NO.
032–0312.00.0
A6.0
DOOR & HARDWARE



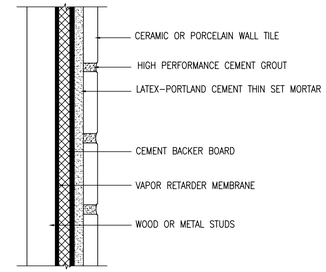

1 A6.1 **BOLLARD DETAIL**
N.T.S.



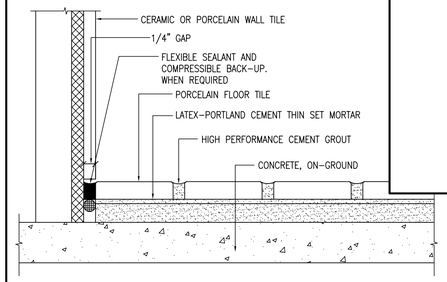

2 A6.1 **RESTROOM AND DINING ROOM FLOORS OVER CONCRETE**
N.T.S.




3 A6.1 **KITCHEN/SUPPORT FLOORS OVER CONCRETE**
N.T.S.




4 A6.1 **DINING ROOM INTERIOR WALLS OVER WOOD OR METAL STUDS**
N.T.S.




5 A6.1 **DINING ROOM PERIMETER JOINT**
N.T.S.

## WALL TILE SCHEDULE – LUNA

| MARK | ROOM NAME | WALL | | MORTAR SETTING BED | GROUT |
|---|---|---|---|---|---|
| 100 | CUSTOMER SERVICE | CERAMIC OR PORCELAIN WALL TILE | (NOTE 5C) | LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED) | HIGH PERFORMANCE CEMENT GROUT |
| 101 | DINING | SEE DINING ROOM FINISH SCHEDULE | (NOTE 5B & 5C) | LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED) | HIGH PERFORMANCE CEMENT GROUT |
| 102 | WOMEN'S TOILET | CERAMIC OR PORCELAIN WALL TILE | (NOTE 4) | LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED) | HIGH PERFORMANCE CEMENT GROUT (NOTE 4) |
| 103 | MEN'S TOILET | CERAMIC OR PORCELAIN WALL TILE | (NOTE 4) | LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED) | HIGH PERFORMANCE CEMENT GROUT (NOTE 4) |
| 104 | SUPPORT | N/A – SEE ROOM FINISH SCHEDULE | | ----- | ----- |
| 105 | KITCHEN | N/A – SEE ROOM FINISH SCHEDULE | | ----- | ----- |
| 106 | PRESENTER–1 | CERAMIC WALL TILE | | LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED) | HIGH PERFORMANCE CEMENT GROUT |
| 107 | ORDER | N/A – SEE ROOM FINISH SCHEDULE | | ----- | ----- |
| 108 | MANAGER'S OFFICE | N/A – SEE ROOM FINISH SCHEDULE | | ----- | ----- |
| 109 | CREW ROOM | SEE ROOM FINISH SCHEDULE | (NOTE 5B) | LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED) | HIGH PERFORMANCE CEMENT GROUT |
| 110 | COOLER | N/A – SEE ROOM FINISH SCHEDULE | | ----- | ----- |
| 111 | FREEZER | N/A – SEE ROOM FINISH SCHEDULE | | ----- | ----- |
| 112 | COMPUTER CLOSET | N/A – SEE ROOM FINISH SCHEDULE | | ----- | ----- |
| 113 | CREW ALCOVE | N/A – SEE ROOM FINISH SCHEDULE | | ----- | ----- |
| 114 | JANITOR'S CLOSET | N/A – SEE ROOM FINISH SCHEDULE | | ----- | ----- |
| 115 | VESTIBULE | CERAMIC WALL TILE | | LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED) | HIGH PERFORMANCE CEMENT GROUT |
| 116 | PRESENTER–2 | CERAMIC WALL TILE | | LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED) | HIGH PERFORMANCE CEMENT GROUT |
| 117 | CO2 | N/A – SEE ROOM FINISH SCHEDULE | | ----- | ----- |

## FLOOR TILE SCHEDULE – LUNA

| MARK | ROOM NAME | FLOOR | BASE | MORTAR SETTING BED | GROUT |
|---|---|---|---|---|---|
| 100 | CUSTOMER SERVICE | PORCELAIN FLOOR TILE (NOTE 3) | NONE – WALL TILE | LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED) | HIGH PERFORMANCE CEMENT GROUT |
| 101 | DINING | PORCELAIN FLOOR TILE (NOTE 3) | NONE – WALL TILE | LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED) | HIGH PERFORMANCE CEMENT GROUT |
| 102 | WOMEN'S TOILET | PORCELAIN FLOOR TILE (NOTE 4) | NONE – WALL TILE (NOTE 5A) | LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED) | HIGH PERFORMANCE CEMENT GROUT |
| 103 | MEN'S TOILET | PORCELAIN FLOOR TILE (NOTE 4) | NONE – WALL TILE (NOTE 5A) | LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED) | HIGH PERFORMANCE CEMENT GROUT |
| 104 | SUPPORT | QUARRY TILE (NOTE 2) | COVED QUARRY TILE | MODIFIED–PORTLAND CEMENT THIN SET MORTAR (MEDIUM BED) | CHEMICAL RESISTANT, WATER–CLEANABLE, TILE–SETTING EPOXY – 100% SOLIDS, INDUSTRIAL–GRADE |
| 105 | KITCHEN | QUARRY TILE (NOTE 2) | COVED QUARRY TILE | MODIFIED–PORTLAND CEMENT THIN SET MORTAR (MEDIUM BED) | CHEMICAL RESISTANT, WATER–CLEANABLE, TILE–SETTING EPOXY – 100% SOLIDS, INDUSTRIAL–GRADE |
| 106 | PRESENTER–1 | QUARRY TILE (NOTE 2) | COVED QUARRY TILE | MODIFIED–PORTLAND CEMENT THIN SET MORTAR (MEDIUM BED) | CHEMICAL RESISTANT, WATER–CLEANABLE, TILE–SETTING EPOXY – 100% SOLIDS, INDUSTRIAL–GRADE |
| 107 | ORDER | QUARRY TILE (NOTE 2) | COVED QUARRY TILE | MODIFIED–PORTLAND CEMENT THIN SET MORTAR (MEDIUM BED) | CHEMICAL RESISTANT, WATER–CLEANABLE, TILE–SETTING EPOXY – 100% SOLIDS, INDUSTRIAL–GRADE |
| 108 | MANAGER'S OFFICE | QUARRY TILE (NOTE 2) | COVED QUARRY TILE | MODIFIED–PORTLAND CEMENT THIN SET MORTAR (MEDIUM BED) | CHEMICAL RESISTANT, WATER–CLEANABLE, TILE–SETTING EPOXY – 100% SOLIDS, INDUSTRIAL–GRADE |
| 109 | CREW ROOM | QUARRY TILE (NOTE 2) | COVED QUARRY TILE | MODIFIED–PORTLAND CEMENT THIN SET MORTAR (MEDIUM BED) | CHEMICAL RESISTANT, WATER–CLEANABLE, TILE–SETTING EPOXY – 100% SOLIDS, INDUSTRIAL–GRADE |
| 110 | COOLER | QUARRY TILE (NOTE 2) | 4" ALUM. COVED BASE | MODIFIED–PORTLAND CEMENT THIN SET MORTAR (MEDIUM BED) | CHEMICAL RESISTANT, WATER–CLEANABLE, TILE–SETTING EPOXY – 100% SOLIDS, INDUSTRIAL–GRADE |
| 111 | FREEZER | QUARRY TILE (NOTE 2) | 4" ALUM. COVED BASE | MODIFIED–PORTLAND CEMENT THIN SET MORTAR (MEDIUM BED) | CHEMICAL RESISTANT, WATER–CLEANABLE, TILE–SETTING EPOXY – 100% SOLIDS, INDUSTRIAL–GRADE |
| 112 | COMPUTER CLOSET | QUARRY TILE (NOTE 2) | COVED QUARRY TILE | MODIFIED–PORTLAND CEMENT THIN SET MORTAR (MEDIUM BED) | CHEMICAL RESISTANT, WATER–CLEANABLE, TILE–SETTING EPOXY – 100% SOLIDS, INDUSTRIAL–GRADE |
| 113 | CREW ALCOVE | QUARRY TILE (NOTE 2) | COVED QUARRY TILE | MODIFIED–PORTLAND CEMENT THIN SET MORTAR (MEDIUM BED) | CHEMICAL RESISTANT, WATER–CLEANABLE, TILE–SETTING EPOXY – 100% SOLIDS, INDUSTRIAL–GRADE |
| 114 | JANITOR'S CLOSET | PORCELAIN FLOOR TILE | COVED QUARRY TILE | LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED) | HIGH PERFORMANCE CEMENT GROUT |
| 115 | VESTIBULE | PORCELAIN FLOOR TILE | NONE – WALL TILE | LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED) | HIGH PERFORMANCE CEMENT GROUT |
| 116 | PRESENTER–2 | QUARRY TILE (NOTE 2) | COVED QUARRY TILE | MODIFIED–PORTLAND CEMENT THIN SET MORTAR (MEDIUM BED) | CHEMICAL RESISTANT, WATER–CLEANABLE, TILE–SETTING EPOXY – 100% SOLIDS, INDUSTRIAL–GRADE |
| 117 | CO2 | N/A – SEE ROOM FINISH SCHEDULE | --- | ---- | ---- |

## ROOM FINISH SCHEDULE – LUNA

| MARK | ROOM NAME | WALLS | | | CEILING * | REMARKS |
|---|---|---|---|---|---|---|
| | | SUBSTRATE | FINISH | | | |
| 100 | CUSTOMER SERVICE | CEMENT BOARD | TILE ** | TILE AS NOTED ON A1.0 AND A3.1 | 2'x2' VINYL–FACED LAY–IN | |
| 101 | DINING | CEM BD/GYP BD | TILE/V.W.C. ** | SEE DINING ROOM FINISH SCHEDULE | SEE DINING ROOM FINISH SCHEDULE | |
| 102 | WOMEN'S TOILET | CEMENT BOARD | TILE | | PAINTED GYP. BD. | BENJAMIN MOORE – "OC–17 WHITE DOVE" |
| 103 | MEN'S TOILET | CEMENT BOARD | TILE | | PAINTED GYP. BD. | BENJAMIN MOORE – "OC–17 WHITE DOVE" |
| 104 | SUPPORT | CEMENT BOARD | TILE | STAINLESS STEEL CORNERS | 2'x2' VINYL–FACED LAY–IN | SEE NOTE 5 FOR WALL FINISH EXCEPTIONS |
| 105 | KITCHEN | CEMENT BOARD | TILE | STAINLESS STEEL CORNERS, TILE OVER CEM BD AS NOTED ON A1.0 | 2'x2' VINYL–FACED LAY–IN | SEE SHEET A1.0 FOR EXTENT OF CEMENT BOARD, SS OR CT |
| 106 | PRESENTER –1 | CEMENT BOARD | TILE | TILE AS NOTED ON A1.0 | 2'x2' VINYL–FACED LAY–IN | |
| 107 | ORDER | CEMENT BOARD | TILE | | 2'x2' VINYL–FACED LAY–IN | |
| 108 | MANAGER'S AREA | CEMENT BOARD | TILE | | 2'x2' VINYL–FACED LAY–IN | |
| 109 | CREW ROOM | CEM BD/GYP BD | TILE/V.W.C. ** | SEE NOTE 8 | 2'x2' ACOUST. LAY–IN | |
| 110 | COOLER | N/A | PRE–FAB METAL SKIN PANEL | | PRE–FAB METAL SKIN PANEL | BASE SUPPLIED BY KES |
| 111 | FREEZER | N/A | PRE–FAB METAL SKIN PANEL | | PRE–FAB METAL SKIN PANEL | BASE SUPPLIED BY KES |
| 112 | COMPUTER CLOSET | CEMENT BOARD | TILE | | PAINTED GYP. BD. | |
| 113 | CREW ALCOVE | CEMENT BOARD | TILE | STAINLESS STEEL CORNERS, TILE OVER CEM BD AS NOTED ON A1.0 | 2'x2' VINYL–FACED LAY–IN | SEE SHEET A1.0 FOR EXTENT OF CEMENT BOARD, SS OR CT |
| 114 | JANITOR'S CLOSET | 1/2" PLYWOOD (NOTE 4) | FRP | | PAINTED GYP. BD. | EXT GRADE PLYWOOD (NOTE 4) SEE NOTE 5A |
| 115 | VESTIBULE | CEM BD/GYP BD | TILE/V.W.C. | SEE DINING ROOM FINISH SCHEDULE | SEE DINING ROOM FINISH SCHEDULE | OPTIONAL PEDIMAT. SEE DETAIL 7/A6.1. VERIFY WITH MCD CONSTRUCTION MANGER |
| 116 | PRESENTER –2 | CEMENT BOARD | TILE | TILE AS NOTED ON A1.0 | 2'x2' VINYL–FACED LAY–IN | |
| 117 | CO2 | CEMENT BOARD | TILE | | PAINTED GYP. BD. | EXT GRADE PLYWOOD (NOTE 4) SEE NOTE 7 |

## DINING ROOM FINISH SCHEDULE – LUNA

| MARK | QUANTITY | TYPE | PRODUCT, FINISH & COLOR | REMARKS |
|---|---|---|---|---|
| D1 | N/A | WALL/WAINSCOT TILE | CROSSVILLE – MOONLIGHT GREY 24"x24" | GROUT: MAPEI ULTRACOLOR GRAY 09 – JOINT 1/16" MAX |
| D2 | N/A | WALL PANELING | LAMITECH – 1467 MT LINEAL OAK 48"x120" | |
| D3 | N/A | WALL PANELING | MDF WITH ROUTED V–GROOVE, LAQUERED TO MATCH RAL 9010, 3/4"x47.5"X96" | |
| D4 | N/A | WALLCOVERING | KOROSEAL WALLCOVERING – 7421–30 CIPRIANI FOUNTAIN HEAD | |
| D5 | N/A | WALLCOVERING | ASA WALLCOVERING – NAT–GREEN | |
| D6 | N/A | SERVICE AREA TRIM | SCHLUTER – QUADEC – TUSCAN PEWTER Q80TSG | |
| D7 | N/A | MAIN DINING TRIM | SCHLUTER – QUADEC – SATIN ANODIZED ALUMINUM | |
| D8 | N/A | LAMINATE BASE | LAMITECH – 2255 MT IRON, COMPACT | |
| D9 | N/A | WINDOW SILLS AND CASEMENT | DUPONT –CORIAN "DEEP CLOUD" | |
| D10 | N/A | MAIN CEILING TILE | ACOUSTICAL SURFACES INC. – WOOD WOOL "5/8"x24"x48" DROP IN CEILING W/ SQUARE EDGES | FACTORY PAINTED: BENJAMIN MOORE – GALVESTON GRAY AC–27 |
| D11 | N/A | MAIN CEILING GRID | USG – DX/DXL INTERMEDIATE DUTY GRID | CUSTOM PAINTED: BENJAMIN MOORE – GALVESTON GRAY AC–27 |
| D12 | N/A | CEILING VENT PAINT | BENJAMIN MOORE – GALVESTON GRAY AC–27 | |
| D13 | 1 | PARTITION W/ HALF WALL | TEXTURED GREY POWDERCOAT ROUND MESH AND FRAME, WALL FINISH – LAMITECH – 1467 MT LINEAL OAK | TRIM FINISH: SIGNAL YELLOW SEMI–GLOSS POWDERCOAT |
| D14 | 1 | FRIES WALL GRAPHIC | SET OF 4 | LIGHTING BY PERSONA |
| D15 | 4 | LUNA WINDOW SHUTTER | TEXTURED GREY POWDERCOAT ROUND MESH AND FRAME | |
| D16 | SEE PLAN | COVE LIGHTING | SECURITY LIGHTING – FLEXIBLE TAPE LIGHT | SEE ELECTRICAL |
| D17 | SEE PLAN | PENDANT LIGHTING | SECURITY LIGHTING – ORBIT PENDANT LIGHT | SEE ELECTRICAL |
| D18 | | | | |
| D19 | | | | |
| D20 | | | | |

GENERAL FINISH NOTES:

1. REFERENCE: McDONALD'S PROJECT MANUAL – SECTION 093000
2. KITCHEN FLOOR TILE:
   TILE: CROSSVILLE 6"x6" 'METROPOLITAN QUARRY BASICS ABRASIVE'
   GROUT: CHARCOAL #47 BY MAPEI
   KERAPOXY IEG BLACK #10 BY MAPEI (FOR OPTIONAL GREY TILE)
   COLOR: PURITAN GRAY EXTRA ABRASIVE 57XA (STANDARD)
   MAYFLOWER RED 31XA (OPTIONAL) – VERIFY W/ MCDONALD'S ACM
3. DINING ROOM FLOOR TILE:
   TILE: CROSSVILLE 24"x24" 'MOONLIGHT GREY'
   GROUT: MAPEI ULTRACOLOR GRAY 09 – JOINT 1/8" MAX.
4. RESTROOM TILE:
   MAIN WALL TILE: EUROWEST – ARCHITECT 12"x24" 'FACTORY'
   ACCENT WALL TILE: EUROWEST – SHELTER 4"x12" 'BIANCO MATTE'
   RESTROOM SINK & HAND DRYER PANEL: CORIAN – CAMEO WHITE
   FLOOR TILE: EUROWEST – NEW GROUND 12"x24" 'ANTHRACITE'
   GROUT: MAPEI ULTRACOLOR CHARCOAL 47 – JOINT 1/8" MAX
5. TILE TRANSITION AND EDGE PROTECTION:
   A) TILE BASE (RESTROOM ONLY): SCHLUTER DILEX–AHK SERIES, BRUSHED STAINLESS STEEL.
   B) TILE EDGE PROTECTION (WALL TRANSITION): SCHLUTER–RONDEC–DB, SATIN ANODIZED ALUMINUM.
   C) TILE CORNER PROTECTION (OUTSIDE CORNER): SCHLUTER–RONDEC–AE, SATIN ANODIZED ALUMINUM.

   BEFORE FINAL INSPECTION, REMOVE PROTECTIVE COVERINGS AND PERFORM FINAL CLEANING.
6. TILE CLEANER: DETERDEK, BY FILA SURFACE CARE PRODUCTS – NO SUBSTITUTIONS ALLOWED
   CAN BE ORDERED BY EUROWEST, CROSSVILLE, OR DIRECT FROM MANUFACTURER: FILA/DETEREK
   POST INSTALLATION CLEANING REQUIRED ON ALL FLOOR TILE INSTALLTIONS PRIOR TO RESTAURANT TURN OVER.

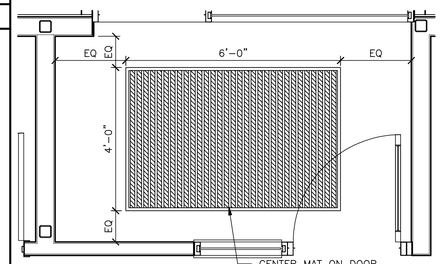
   APPLY CLEANER PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
   REFERENCE: McDONALD'S PROJECT MANUAL – SECTION 09300 TILING INTERIOR.
7. GROUT COLOR AND MANUFACTURER AS INDICATED ON SHEET A1.0 AND INTERIOR DECOR DRAWINGS.

GENERAL FINISH NOTES:

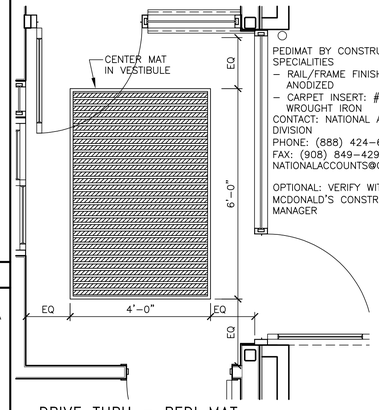
1. ALL FINISH SURFACES OF WALL AND CEILING MATERIALS SHALL BE CLASS A OR B AND SHALL HAVE A FLAME SPREAD RATING OF 0–25 OR 26 TO 75 AND A SMOKE DENSITY OF 450 MAX. (PER IBC TABLE 803.9).
2. DECORATIVE MATERIALS SHALL BE FLAME RETARDANT AND MEET THE CRITERIA OF NFPA 701.
3. DECORATIVE MATERIAL SHALL NOT CONCEAL EXITS, EXIT LIGHTS, ALARM STATIONS, HOSE CABINETS, AND EXTINGUISHER LOCATIONS
4. WHEN BUILDING TYPE IS A NON–COMBUSTIBLE CATEGORY, ALL PLYWOOD SHALL BE FIRE RETARDANT TREATED.
5. A. TILE WAINSCOT TO 6' A.F.F. OVER CEMENT BD. OVER EXT GRADE PLYWOOD (NOTE 4) AT MOP SINKS
6. PROVIDE CEMENT BOARD BACKER OR EQUIVALENT AT ALL TILE LOCATIONS.
7. PROVIDE VAPOR BARRIER BEHIND PLYWOOD AT WALLS AND BEHIND GYP. AT CEILING
8. CREW ROOM FINISHES:
   NORTH WALL: MOMENTUM WALL GRAPHIC – VIS705.
   EAST/WEST/SOUTH WALLS: TILE WAINSCOT TO 3' A.F.F. – EUROWEST ARCHITECT FACTORY 12"x24". TILE COVE BASE – EUROWEST ARCHITECT FACTORY 6"x12". LUNA WOOD WALL COVERING – MOMENTUM NA–5C–MC439 – ENGLEWOOD,ELM.
   CEILING: USG – FROST CLIMAPLUS 534 CHARCOAL 24"x24". PAINT GRID TO MATCH TILE.

   *TILE OPTION FOR HEALTH CODE: WAINSCOT – EUROWEST MA.DE UNI GRIGIO 12"x24". TILE COVE BASE – EUROWEST UNI GRIGIO 6"x12".
9. ALL DECOR ELEMENTS MANUFACTURED BY DECOR TO BE PURCHASED AND INSTALLED BY GC, UNO.

* SEE CEILING PLAN FOR HEIGHTS & LAYOUTS
** VWC ON EXTERIOR WALL ASSEMBLIES TO BE PERFORATED

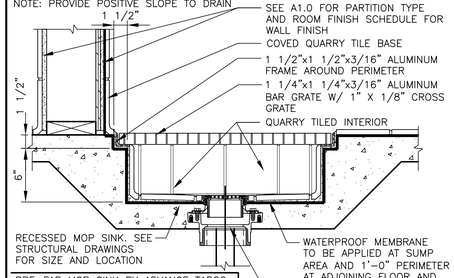



NON–DRIVE THRU – PEDI MAT




DRIVE THRU – PEDI MAT

7 A6.1 **PEDIMAT (OPTIONAL)**
1/2" =1'–0"




8 A6.1 **MOP SINK**
1 1/2"=1'–0"

| NO. | DESCRIPTION | DATE |
|---|---|---|
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| | | |

DATE: .....


PREPARED BY:
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McDonald's USA, LLC


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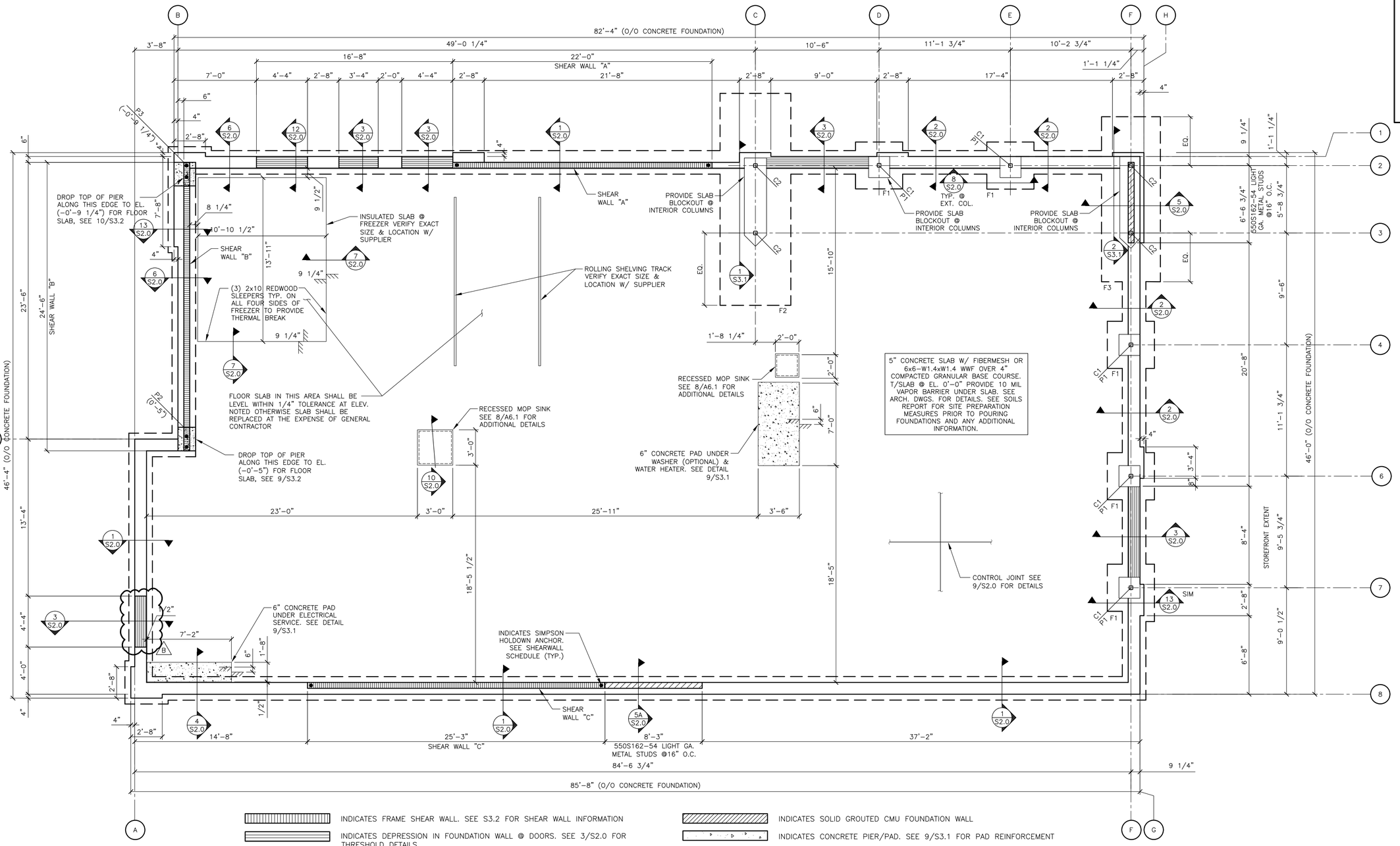
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| DRAWN BY | STD ISSUE DATE |
|---|---|
| HM | 2023 11 |
| REVIEWED BY | DATE ISSUED |
| GA | 9/6/2024 |

TITLE: 2024 STANDARD BUILDING – BB20
4584–WOOD/WOOD
DESCRIPTION: WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & CI
WOOD TRUSS ROOF FRAMING
BRICK/ ALPOLIC PANEL
NSN: 10721

SITE ADDRESS: 102 W CORNELIUS HARNETT BLVD
LILLINGTON, NC
L/C: 032–0312

SHEET NO.: A6.1
032–0312.00.0
FINISH SCHEDULES




INDICATES FRAME SHEAR WALL. SEE S3.2 FOR SHEAR WALL INFORMATION

INDICATES DEPRESSION IN FOUNDATION WALL @ DOORS. SEE 3/S2.0 FOR THRESHOLD DETAILS.

INDICATES METAL STUD FRAME WALL. SEE 5/S2.0 FOR DETAILS.

INDICATES SOLID GROUTED CMU FOUNDATION WALL

INDICATES CONCRETE PIER/PAD. SEE 9/S3.1 FOR PAD REINFORCEMENT

INDICATES SHEAR WALL HOLD-DOWN ANCHORS, SEE 1/S3.2 FOR DETAILS.

## 1/S1.0 FOUNDATION PLAN

1/4"=1'-0"

NOTES:
1. TOP OF FOOTING @ EL. (-1'-6") UNLESS NOTED OTHERWISE.
2. TOP OF PIER @ EL. (-0'-8") UNLESS NOTED OTHERWISE.
3. SEE SHEET S4.0 FOR GENERAL STRUCTURAL NOTES.
4. PROVIDE POSITIVE DRAINAGE TO ALL FLOOR DRAINS/SINKS (MIN 6") BEYOND DRAIN) SEE PLUMBING DRAWINGS FOR EXACT LOCATIONS
5. SEE SHEET S2.0 FOR TYPICAL CORNER BAR DETAILS.
6. MINIMUM REQUIREMENTS FOR SILL PLATE CONNECTION TO FOUNDATION:
   MINIMUM # OF BOLTS = 2 PER PIECE OF SILL
   MAXIMUM DISTANCE FROM END OF SILL TO ANCHOR = 12"
   MINIMUM DISTANCE FROM END OF SILL TO ANCHOR = 4"
7. WHERE SILL PLATES ARE NOT CONTINUOUS AT ALL LOCATIONS EXCEPT SHEAR WALLS, USE SIMPSON "RPS22Z" TIE FOR NOTCH < 5 1/2", USE SIMPSON "RPS28Z" FOR NOTCH < 12", W/ 16d NAILS INTO SILL PLATE ENDS. (MAX. SPACING BETWEEN STUDS = 16" O.C.)
8. WHERE SILL PLATES ARE NOT CONTINUOUS AT SHEAR WALLS, USE SIMPSON MSTI48 METAL TIE W/ MIN 48-10D COMMON NAILS.

## FOOTING SCHEDULE

| MARK | SIZE | REINFORCING |
|---|---|---|
| F1 | 4'-0"x4'-0"x1'-0" | #8 @ 12" O.C. L.W.-T&B W/ STD HOOKS AT EA. END. |
| F2 | 6'-0"x18'-0"x3'-0" | #8 @ 12" O.C. S.W.-T&B W/ STD HOOKS AT EA. END. |
| F3 | 5'-0"x14'-0"x3'-0" | #8 @ 12" O.C. L.W.-T&B W/ STD HOOKS AT EA. END. #8 @ 8" O.C. S.W.-T&B W/ STD HOOKS AT EA. END. |

## COLUMN & BASE PLATE SCHEDULE

| MARK | MEMBER | SHAPE | BASE PLATE | REMARKS |
|---|---|---|---|---|
| C1 | HSS4x4x3/8 | ⊞ | A | EXTEND TO ROOF |
| C2 | HSS4x4x3/8 | ⊞ | B | BRACED FRAME |
| | | | | |
| | | | | |
| | | | | |

**NOTE: SEE DETAIL 3/S3.1 FOR BASE PLATE AND ANCHOR ROD DETAILS**

## PIER SCHEDULE

| MARK | SIZE | REINFORCING | REMARKS |
|---|---|---|---|
| P1 | 1'-4"x1'-4" | 8-#6 VERT. #4 TIES @ 12" O.C. | SEE DETAIL 8/S2.0 |
| P2 | 1'-6"x2'-0" | 8-#6 VERT. #4 TIES @ 12" O.C. | SEE 9/S3.2 FOR PIER DETAILS. |
| P3 | 1'-10"x2'-0" | 8-#6 VERT. #4 TIES @ 12" O.C. | SEE 10/S3.2 FOR PIER DETAILS. |

| REV. | DATE | DESCRIPTION |
|---|---|---|
| B | 7/24/2025 | DOOR SIZE REVISED PER OD REQUEST |

DATE: .....

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|---|---|---|---|
| SK | 2023 11 | GA | 9/6/2024 |

TITLE: 2024 STANDARD BUILDING - BB20
4584-WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & CI
WOOD TRUSS ROOF FRAMING
BRICK / ALPOLIC PANEL

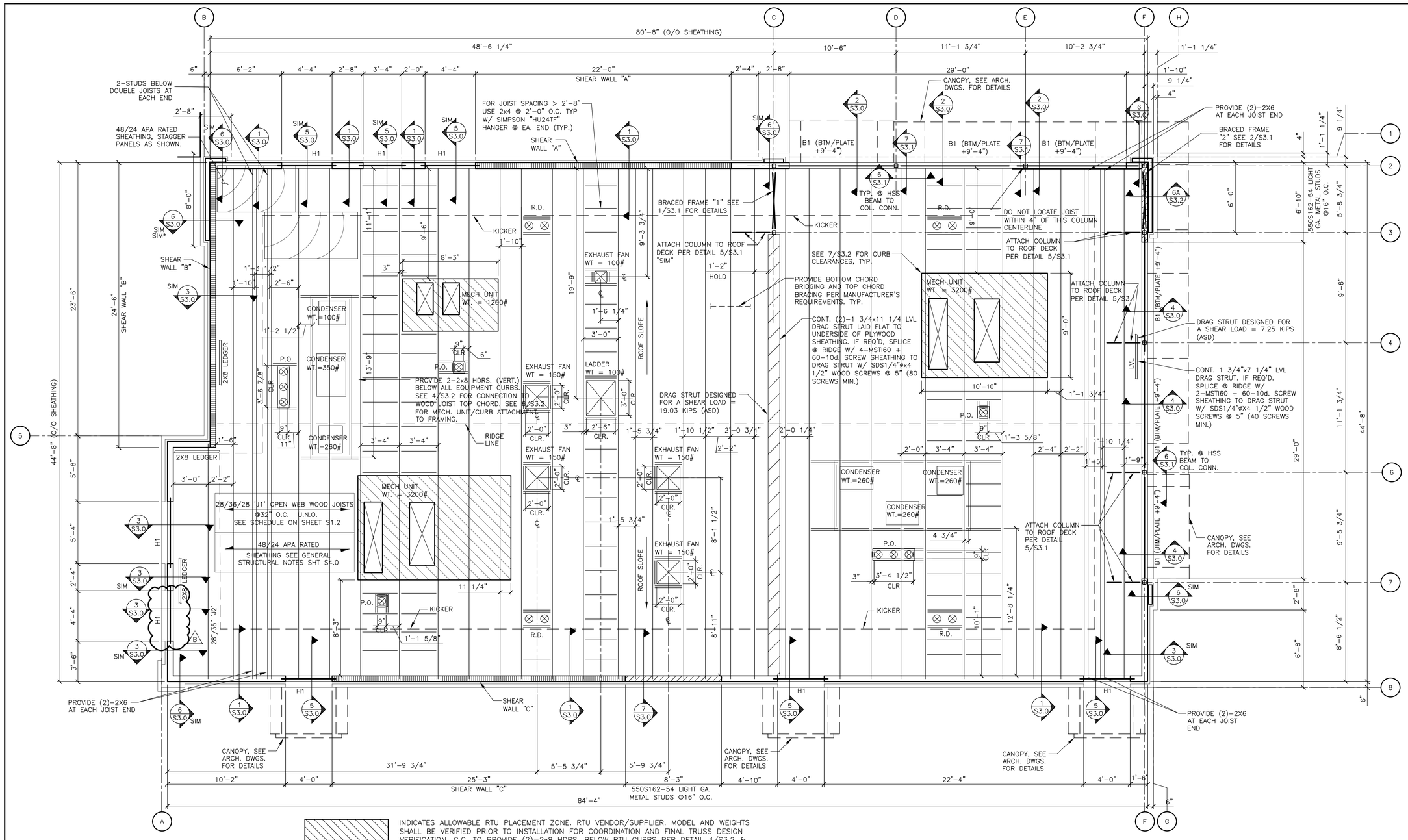
NSN: 10721

SITE ADDRESS:
102 W CORNELIUS HARNETT BLVD
LILLINGTON, NC

L/C: 032-0312

SHEET NO.
032-0312.00.0
S1.0
FOUNDATION PLAN

PROJECT No. 60734777 Task: 032-0312




INDICATES ALLOWABLE RTU PLACEMENT ZONE. RTU VENDOR/SUPPLIER. MODEL AND WEIGHTS SHALL BE VERIFIED PRIOR TO INSTALLATION FOR COORDINATION AND FINAL TRUSS DESIGN VERIFICATION. G.C. TO PROVIDE (2)-2x8 HDRS. BELOW RTU CURBS PER DETAIL 4/S3.2 & 7/S3.2 AND COORDINATE LOCATIONS WITH MANUFACTURER CURB SPECIFICATIONS.

INDICATES RTU SUPPLY/RETURN ROOF DECK PENETRATIONS. G.C. TO PROVIDE (2)-2x8 HDRS. AT PERIMETER OF ALL PENETRATIONS/OPENINGS PER DETAIL 4/S3.2 AND COORDINATE EXTENT WITH MANUFACTURER SPECIFICATIONS.

INDICATES FRAME SHEAR WALL. SEE S3.2 FOR SHEAR WALL INFORMATION

INDICATES METAL STUD FRAME WALL. SEE 7/S3.0 FOR DETAILS.

NOTES:
1. SEE SHEET S4.0 FOR GENERAL STRUCTURAL NOTES.
2. R.D.: ROOF DRAINS
3. P.O.: ROOF CURB PORTAL OPENING - COORDINATE WITH MECHANICAL DRAWINGS.
4. WHEN TOP PLATES ARE NOT CONTINUOUS, USE SIMPSON "RPS22" TIE FOR NOTCH < 5 1/2", USE SIMPSON "RPS28" TIES FOR NOTCH < 12", W/ 16d NAILS INTO TOP PLATE ENDS. (MAX. SPACING BETWEEN STUDS = 16" O.C.)
5. TOP PLATE SPLICE SHALL BE MINIMUM LENGTH OF 48" WITH 2 ROWS (2 1/2" APART) OF 22-16d COMMON NAILS SPACED @ 2" ON CENTER (44 TOTAL).
6. SEE 1&2/S4.0 FOR CONCRETE BLOCK JOINT REINFORCEMENT AND VENEER TIES REQUIREMENTS.
7. SEE 5/S3.2 FOR SNOW DRIFT DIAGRAM.
8. WHERE TOP PLATES ARE NOT CONTINUOUS AT SHEAR WALLS, PROVIDE METAL TIE 16GA X1½"X4'-0"LONG MIN. EACH SIDE W/48 MIN. 10d COMMON NAILS EACH SIDE OF SPLICE.

## BEAM SCHEDULE

| MARK | MEMBER | SHAPE | SUPPORT | REMARKS |
|---|---|---|---|---|
| B1 | HSS16x4x3/8 LLV + 1/4" PLATE | ▯ | 1/2" END PLATE | SEE DETAIL 6/S3.1 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

## HEADER SCHEDULE

| MARK | MEMBER | SHAPE | BEARING |
|---|---|---|---|
| H1 | 5 1/4"x9 1/2" LVL + L5x3 1/2x5/16 LLV | ⊠L | SEE DETAIL 2/S3.2 6" BRG. ANGLE |
| | | | |
| | | | |
| | | | |
| | | | |

**NOTE: ALL WOOD HEADERS TO BE 2.0E-2600FB MIN.**

## JOIST SCHEDULE

| MARK | LIVE/ROOF SNOW LOAD | DEPTH | MANUFACTURER & SERIES |
|---|---|---|---|
| J1 | 20/15 | 28"/36"/28" | REDBUILT "RED-S" |
| J2 | 20/15 | 28"/35" | REDBUILT "RED-S" |
| | | | |
| | | | |
| | | | |

NOTE: SEE DETAIL 4/S3.2 FOR JOIST DETAILS AND SUPPLIER INFORMATION

1 S1.2 **FRAMING PLAN**
1/4"=1'-0"

PROJECT No. 60734777 Task: 032-0312

| REV | DATE | DOOR SIZE REVISED PER 00 REQUEST |
|---|---|---|
| B | 7/24/2025 | |

DATE:

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PREPARED FOR:
McDonald's USA, LLC

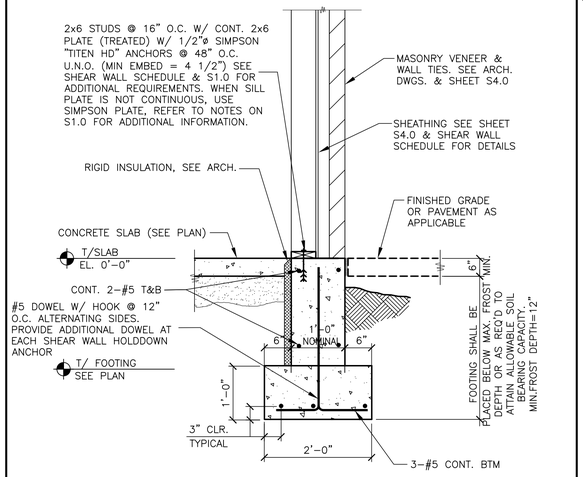
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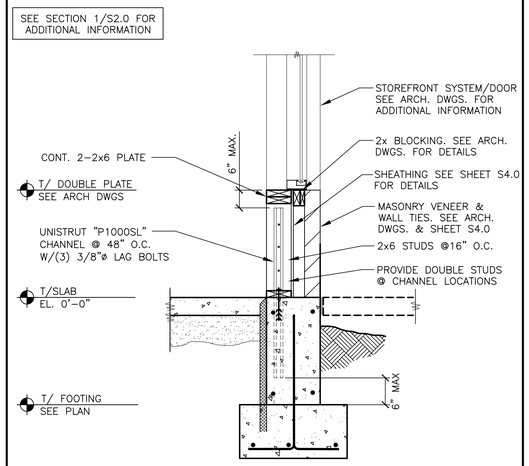
DRAWN BY: SK
STD ISSUE DATE: 2023 11
REVIEWED BY: GA
DATE ISSUED: 9/6/2024

TITLE: 2024 STANDARD BUILDING - BB20
4584-WOOD/WOOD
DESCRIPTION: WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & CI
WOOD TRUSS ROOF FRAMING
BRICK/ ALPOLIC PANEL
NSN: 10721
SITE ADDRESS: 102 W CORNELIUS HARNETT BLVD
LILLINGTON, NC
L/C: 032-0312

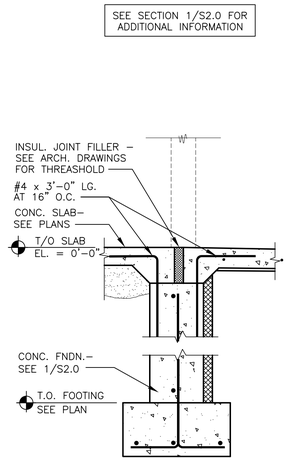
SHEET NO.: S1.2
032-0312.00.0
FRAMING PLAN



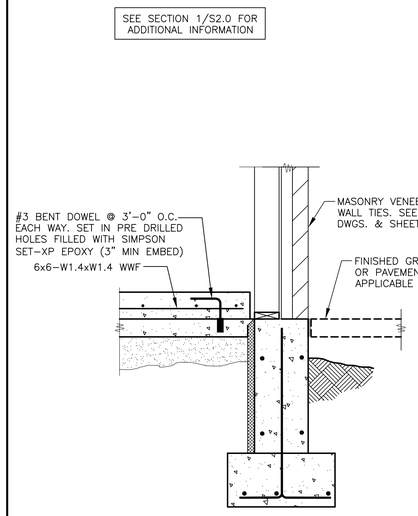

1 S2.0 **SECTION**
3/4" = 1'-0"



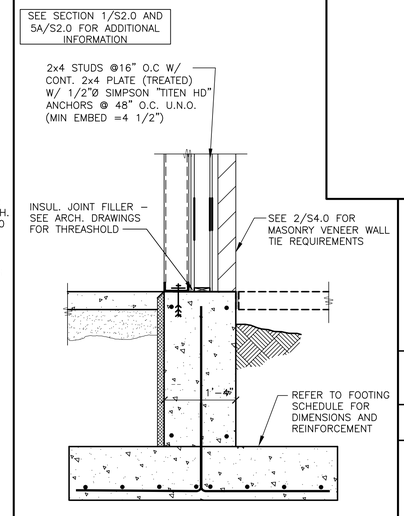

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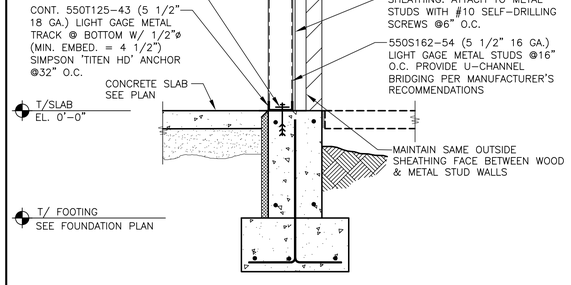

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3/4" = 1'-0"



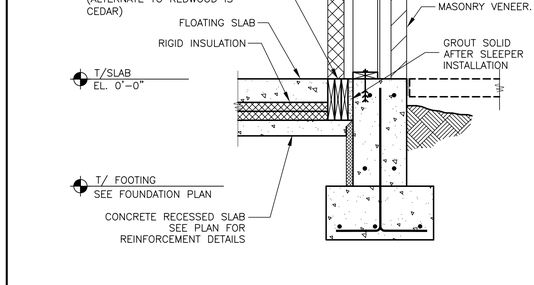

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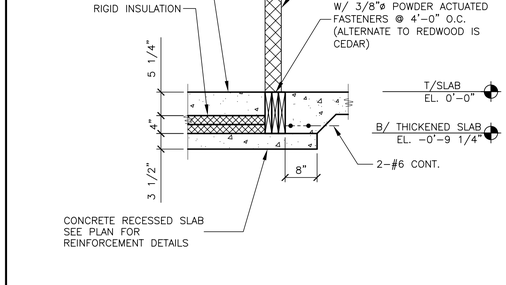

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3/4" = 1'-0"



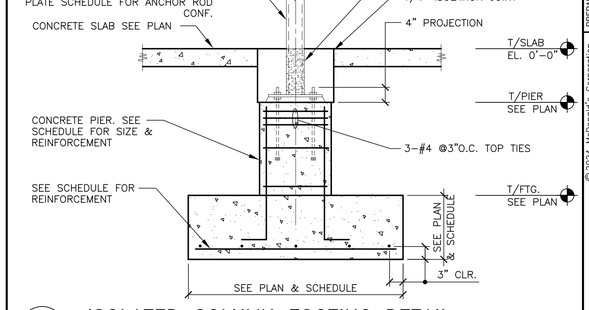

5A S2.0 **SECTION**
3/4" = 1'-0"



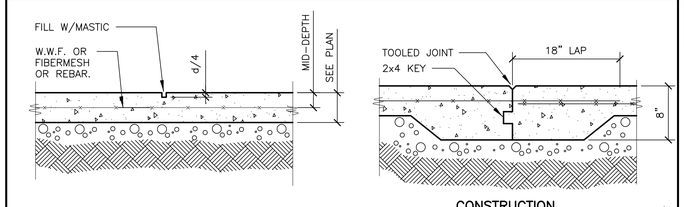

6 S2.0 **SECTION**
3/4" = 1'-0"



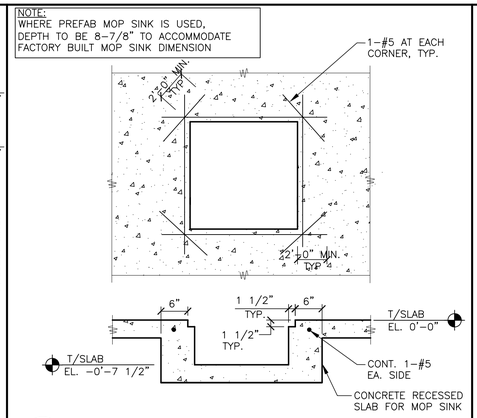

7 S2.0 **SECTION**
3/4" = 1'-0"



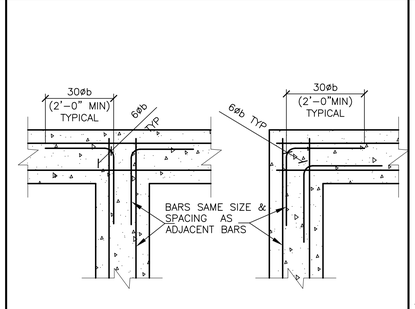

8 S2.0 **ISOLATED COLUMN FOOTING DETAIL**
3/4" = 1'-0"




9 S2.0 **SLAB ON GRADE DETAILS**
N.T.S.

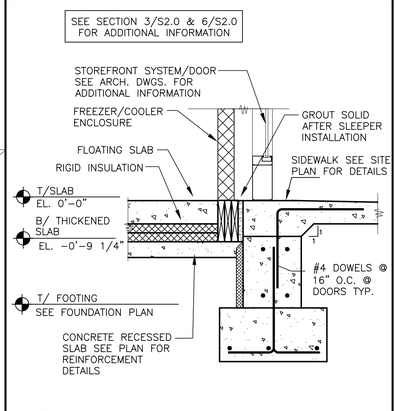



10 S2.0 **RECESSED SLAB DETAIL**
3/4" = 1'-0"

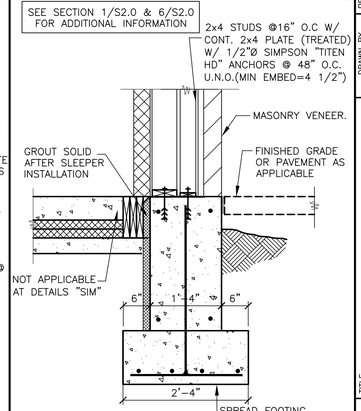



TYPICAL CORNER BAR DETAIL

11 S2.0 **CORNER BAR DETAILS**
N.T.S.




12 S2.0 **SECTION**
3/4" = 1'-0"




13 S2.0 **SECTION**
3/4" = 1'-0"

PROJECT No. 60734777 Task: 032-0312

| NO. | DESCRIPTION | DATE |
|---|---|---|
| REV | | |

DATE: .....

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|---|---|
| SK | GA |
| STD ISSUE DATE | DATE ISSUED |
| 2023 11 | 9/6/2024 |

TITLE
2024 STANDARD BUILDING - BB20
4584-WOOD/WOOD

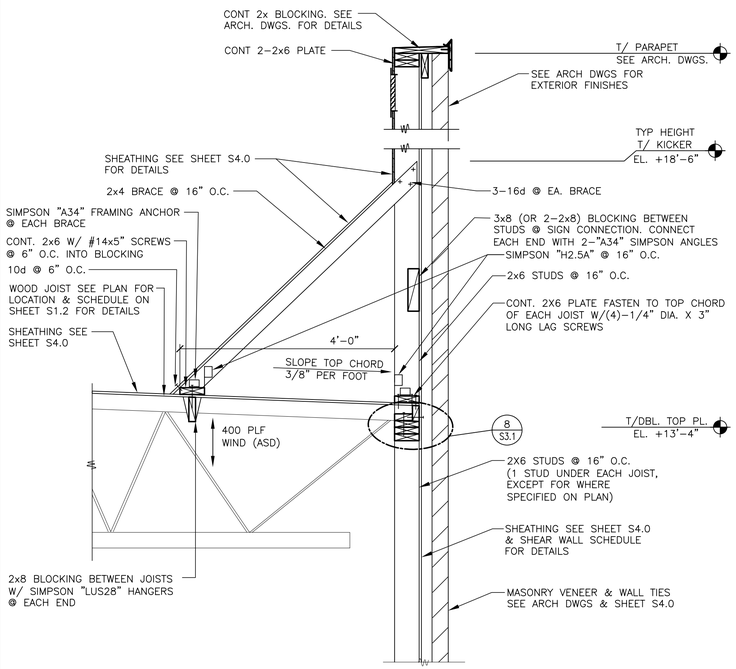
DESCRIPTION
WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & CI
WOOD TRUSS ROOF FRAMING
BRICK/ ALPOLIC PANEL

MSN: 10721
L/C: 032-0312

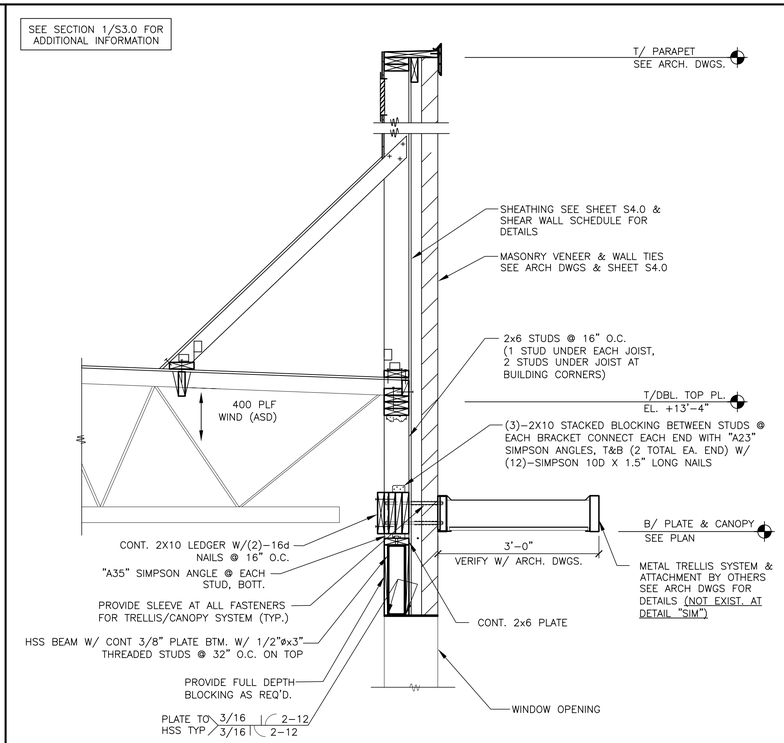
SITE ADDRESS
102 W CORNELIUS HARNETT BLVD
LILLINGTON, NC

SHEET NO.
S2.0
FOUNDATION SECTIONS

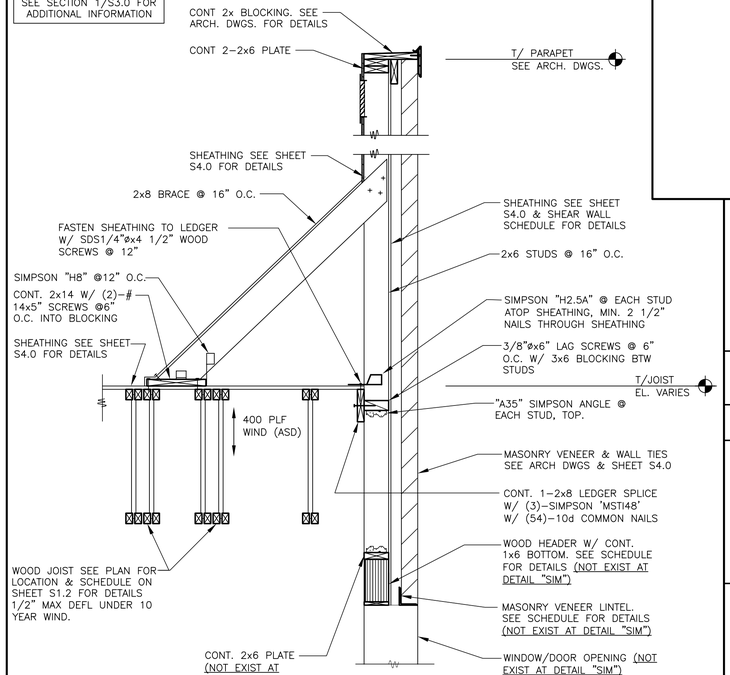
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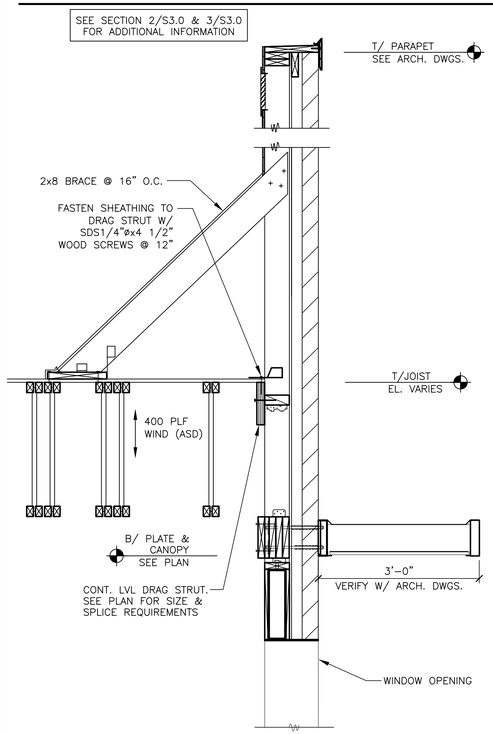

1 S3.0 **SECTION**
3/4" = 1'-0"



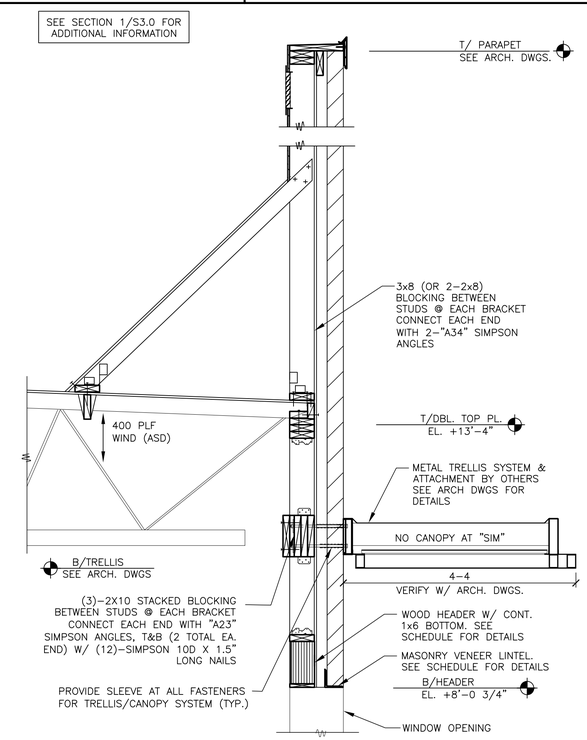

2 S3.0 **SECTION**
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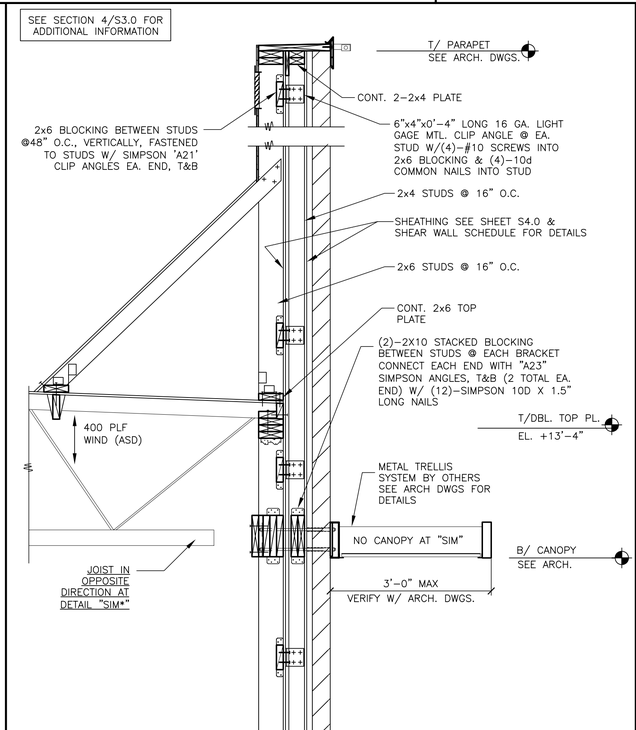

3 S3.0 **SECTION**
3/4" = 1'-0"



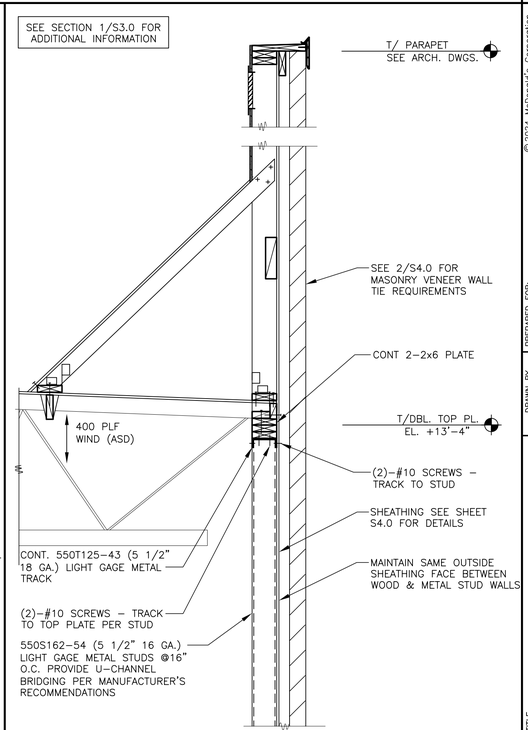

4 S3.0 **SECTION**
3/4" = 1'-0"




5 S3.0 **SECTION**
3/4" = 1'-0"




6 S3.0 **SECTION**
3/4" = 1'-0"




7 S3.0 **SECTION**
3/4" = 1'-0"

PROJECT No. 60734777 Task: 032-0312

DATE: | REV | DATE | DESCRIPTION

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| DRAWN BY | SK |
| STD ISSUE DATE | 2023 11 |
| REVIEWED BY | GA |
| DATE ISSUED | 9/6/2024 |
| | LILLINGTON, NC |

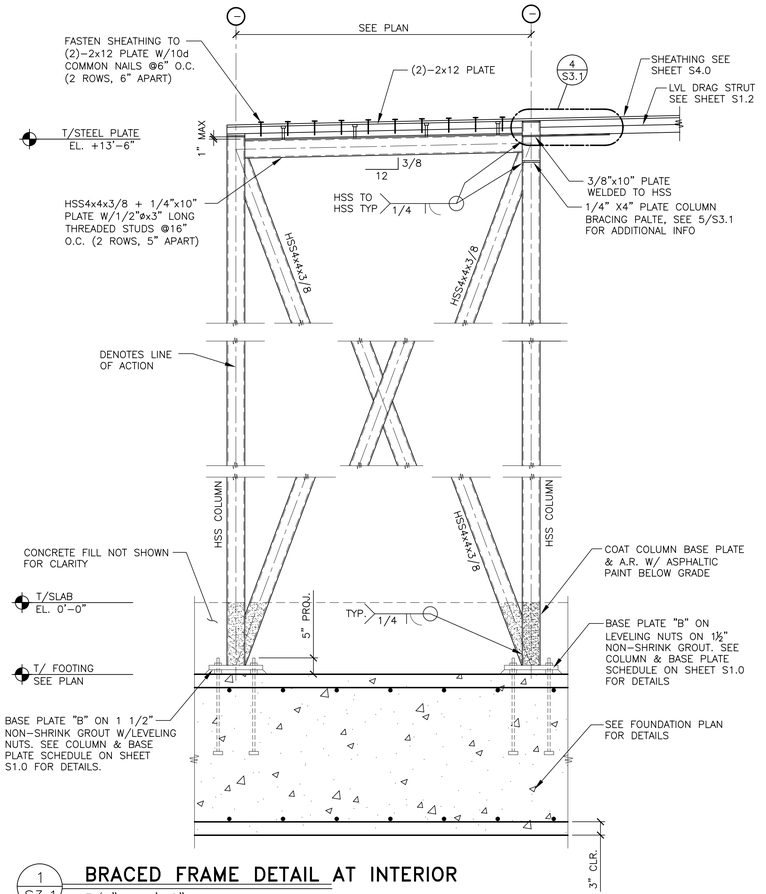
TITLE: 2024 STANDARD BUILDING - BB20
4584-WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & CI
WOOD TRUSS ROOF FRAMING
BRICK / ALPOLIC PANEL

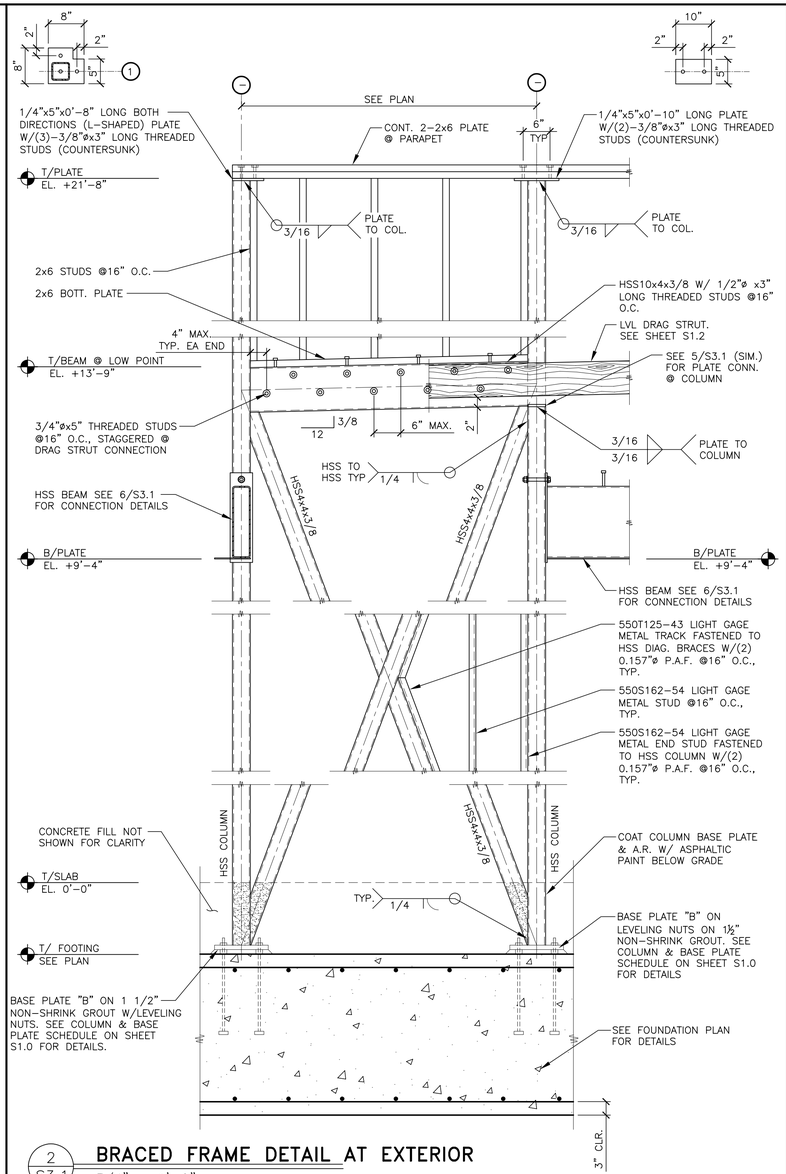
NSN: 10721
L/C: 032-0312

SITE ADDRESS
102 W CORNELIUS HARNETT BLVD

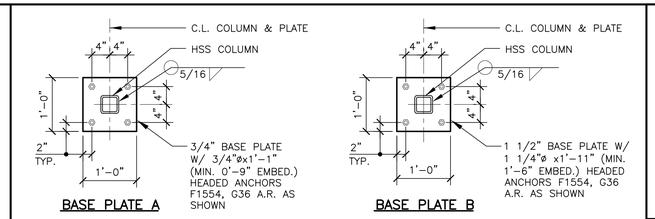
SHEET NO.
032-0312.00.0
**S3.0**
FRAMING SECTIONS



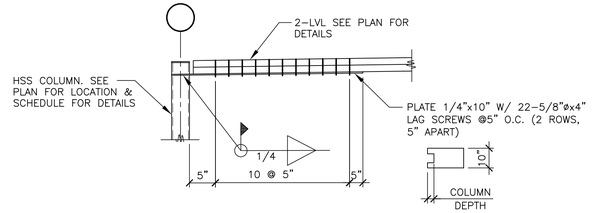

1 S3.1 **BRACED FRAME DETAIL AT INTERIOR**
3/4" = 1'–0"



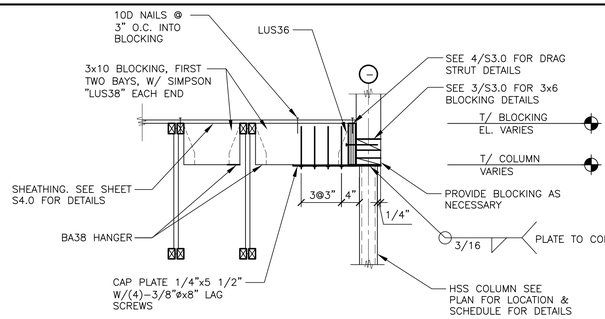

2 S3.1 **BRACED FRAME DETAIL AT EXTERIOR**
3/4" = 1'–0"



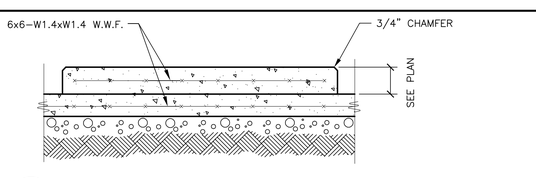

3 S3.1 **BASE PLATE DETAILS**
N.T.S.



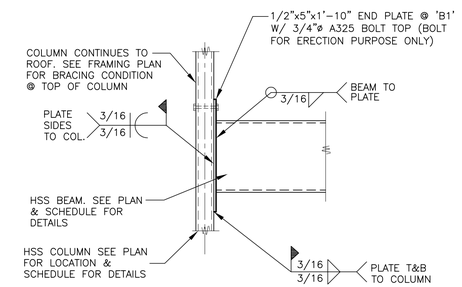

4 S3.1 **DRAG STRUT CONNECTION DETAIL**
3/4" = 1'–0"



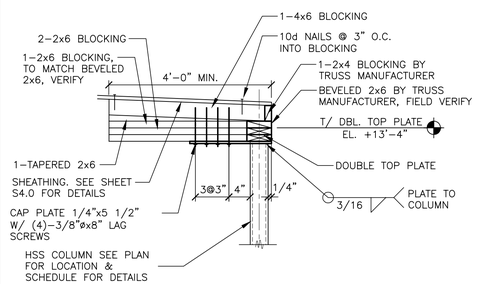

5 S3.1 **COLUMN BRACING DETAIL**
3/4" = 1'–0"



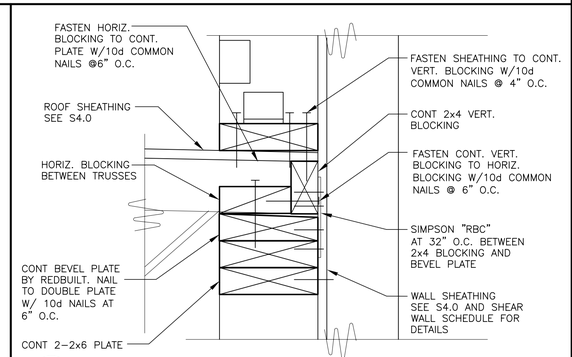

9 S3.1 **TYP. PAD DETAIL**
3/4" = 1'–0"



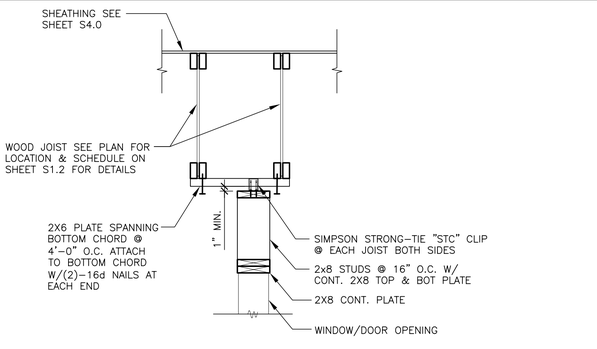

6 S3.1 **HSS BEAM CONNECTION DETAIL**
3/4" = 1'–0"




7 S3.1 **COLUMN BRACING DETAIL**
3/4" = 1'–0"




8 S3.1 **COLUMN BRACING DETAIL**
3/4" = 1'–0"




10 S3.1 **TYP. PARTITION WALL TO JOIST CONNX DETAIL**
3/4" = 1'–0"

PROJECT No. 60734777 Task: 032–0312

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| NO. | DESCRIPTION | DATE |
|---|---|---|
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| REV | | |

DATE: .....

| DRAWN BY | STD ISSUE DATE |
|---|---|
| SK | 2023 11 |
| REVIEWED BY | DATE ISSUED |
| GA | 9/6/2024 |

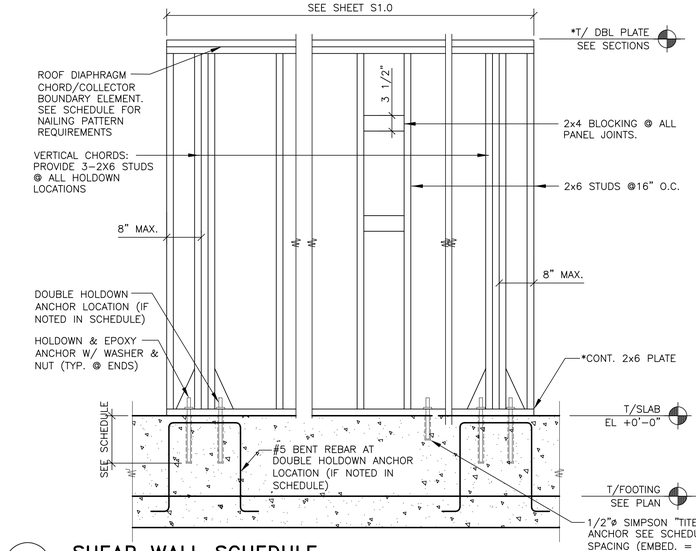
SITE ADDRESS: 102 W CORNELIUS HARNETT BLVD LILLINGTON, NC

TITLE: 2024 STANDARD BUILDING – BB20
4584–WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & CI
WOOD TRUSS ROOF FRAMING
BRICK / ALPOLIC PANEL

NSN: 10721
L/C: 032–0312

SHEET NO. 032–0312.00.0
S3.1
STEEL DETAILS



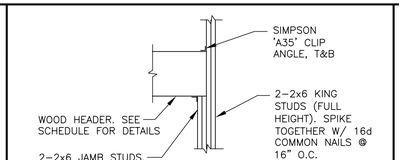

1 S3.2 **SHEAR WALL SCHEDULE**
N.T.S.

## SHEAR WALL SCHEDULE

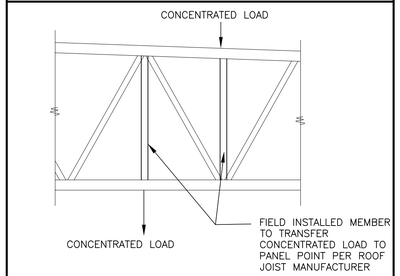
WIND: 117 MPH (EXPOSURE C) SEISMIC: Sds = 30.2%, Sd1 = 19.9%

| MARK | SHEATHING | SHEATHING NAIL SIZE | SHEATHING NAIL** SPACING @ PANEL EDGES | HOLDDOWN*** ANCHORS | ANCHOR BOLT SPACING | REMARKS |
|---|---|---|---|---|---|---|
| A | 1-15/32" | 10d | 3" | 1-HDU8-SDS2.5 7/8"ø EPOXY ANCH. | 24" | 15" MIN. EMBED. ON HOLDDOWN ANCHORS. |
| B | 2-15/32" (BOTH INTERIOR AND EXTERIOR SHEATHING) | 10d | 4" | 2-HDU8-SDS2.5 7/8"ø EPOXY ANCH. | 24" | 15" MIN. EMBED. ON HOLDDOWN ANCHORS. 6" MIN. ANCHOR SPACING W/#5 BENT REBARS |
| C | 1-15/32" | 10d | 3" | 1-HDU8-SDS2.5 7/8"ø EPOXY ANCH. | 24" | 15" MIN. EMBED. ON HOLDDOWN ANCHORS. |

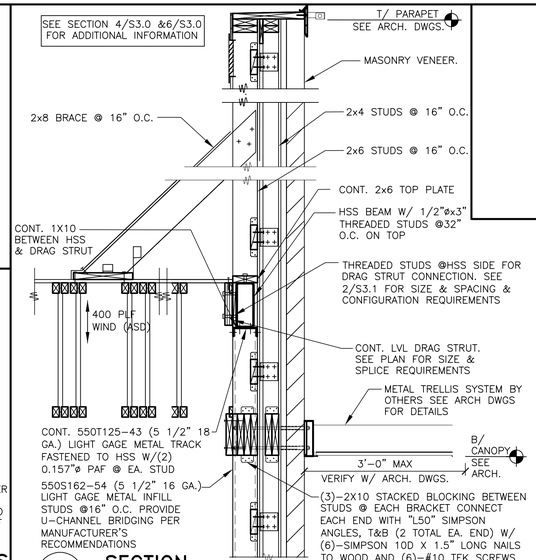
NOTES:
1. SHEATHING PANELS MAY BE LAID UP HORIZONTALLY OR VERTICALLY. NO VERTICAL PANEL EDGES ON VERTICAL CHORDS (HOLDDOWN LOCATION).
2. WIND LOADS GOVERN OVER SEISMIC LOADS UNLESS AS NOTED IN THE REMARKS COLUMN.
3. NAIL ALL SHEATHING TO INTERMEDIATE SUPPORTS @ 12" O.C.
4. SCREW HOLDOWN ANCHORS TO VERTICAL MEMBER W/ 14-"SDS1/4"øX2 1/2" SCREWS EACH.
* IF SILL PLATE OR TOP PLATES ARE NOT CONTINUOUS, CONTACT THE ENGINEER OF RECORD FOR SOLUTION.
** NAIL WALL SHEATHING TO ROOF DIAPHRAGM CHORD & TO EACH MEMBER/WALL VERTICAL CHORD W/ 10D COMMON NAILS @ 6" O.C., UNO.
*** AS MANUF. BY SIMPSON. USE SET - XP HIGH STRENGTH EPOXY FOR THE INSTALLATION OF END THREADED ROD ANCHORS.




2 S3.2 **HEADER SUPPORT DETAIL**
N.T.S.




3 S3.2 **JOIST DETAIL @ POINT LOADS**
N.T.S.



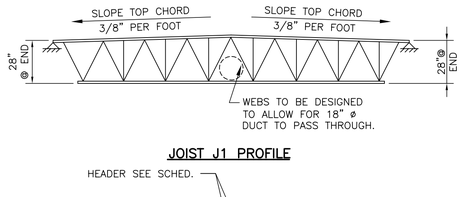

6A S3.2 **SECTION**
3/4" = 1'-0"

1. FOR NATIONAL ACCOUNT PACKAGE & PRICING CONTACT REDBUILT @ 1-866-859-6757
2. JOIST MFGR. TO VERIFY SIZE AT HVAC ROOF TOP UNITS.

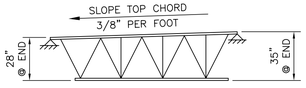
| HEADER | HANGER |
|---|---|
| 2x6 | LUS26 |
| 2-2x6 | LUS26-2 |
| 2x8 | LUS28 |
| 2-2x8 | LUS28-2 |
| 2x10 | LUS210 |
| 2-2x10 | LUS210-2 |

FOR OPENINGS < 1'-4" USE 1-2x6
FOR OPENINGS > 1'-4" AND < 4'-0" USE 2-2x8
FOR OPENINGS > 4'-0" AND < 6'-0" USE 2-2x10

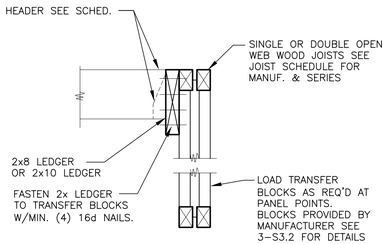
3. ALL JOISTS SHALL BE DESIGNED FOR THE FOLLOWING NET UPLIFT.
115 MPH 3 SEC GUST - EXPOSURE C, UNFACTORED ASCE 7-10 LOADS
WIND UPLIFT:
INTERIOR = 23 PSF (ASD)
PERIMETER = 30 PSF (ASD WITHIN 8 FT. OF OUTSIDE WALLS)
DEAD LOAD RESISTANCE = 8 PSF




JOIST J1 PROFILE

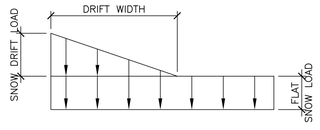



JOIST J2 PROFILE




LOAD TRANSFER BLOCKS CONCENTRATED LOADS

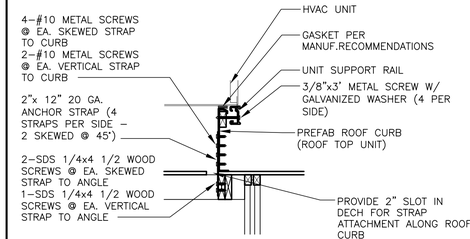
4 S3.2 **JOIST NOTES**
N.T.S.



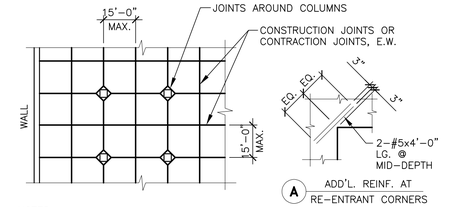

| DRIFT | SNOW DRIFT LOAD (PSF) | WIDTH (FT) |
|---|---|---|
| SHORT DIRECTION | 23.2 | 5.8 |
| LONG DIRECTION | 32.7 | 8.25 |

NOTE: SNOW DRIFT LOADS BASED ON NOMINAL, UNFACTORED GROUND SNOW LOADS. SEE SHEET S4.0 FOR ADDITIONAL INFORMATION.

5 S3.2 **SNOW DRIFT DIAGRAM/SCHEDULE**
N.T.S




6 S3.2 **SECTION**
3/4" = 1'-0"

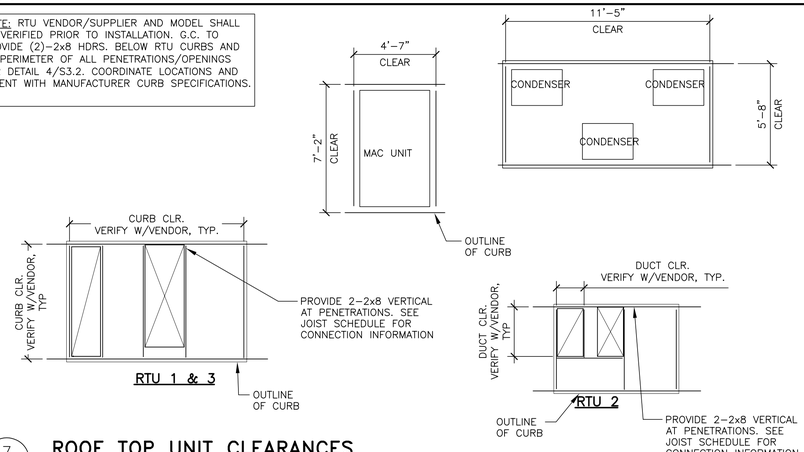



NOTES:

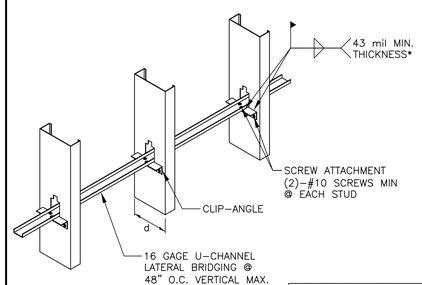
1. LOCATE CONSTRUCTION JOINTS AND CONTRACTION JOINTS ON ALL COLUMN GRID LINES AND SUB-DIVIDE AS REQUIRED TO LIMIT MAXIMUM SPACING BETWEEN JOINTS TO MAXIMUM DIMENSIONS INDICATED ABOVE.
2. LOCATE JOINTS IN A PATTERN THAT SUB-DIVIDES SLAB INTO PANELS THAT ARE SQUARE OR RECTANGULAR AND THAT HAVE AN ASPECT RATIO BETWEEN 1.0 (PREFERRED) TO 1.5.
3. PROVIDE JOINTS AT ALL RE-ENTRANT CORNERS OR PROVIDE REINFORCING PER DETAIL "A" AT RE-ENTRANT CORNERS WHERE JOINTS CAN NOT OCCUR.

11 S3.2 **SLAB-ON-GRADE JOINT ARRANGEMENT**
3/4"=1'-0"

NOTE: RTU VENDOR/SUPPLIER AND MODEL SHALL BE VERIFIED PRIOR TO INSTALLATION. G.C. TO PROVIDE (2)-2x8 HDRS. BELOW RTU CURBS AND AT PERIMETER OF ALL PENETRATIONS/OPENINGS PER DETAIL 4/S3.2. COORDINATE LOCATIONS AND EXTENT WITH MANUFACTURER CURB SPECIFICATIONS.



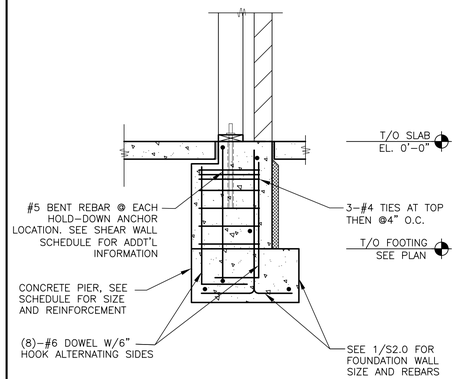

7 S3.2 **ROOF TOP UNIT CLEARANCES**
1/4" = 1'-0"




*EITHER SCREW OR WELD ATTACHMENT REQUIRED

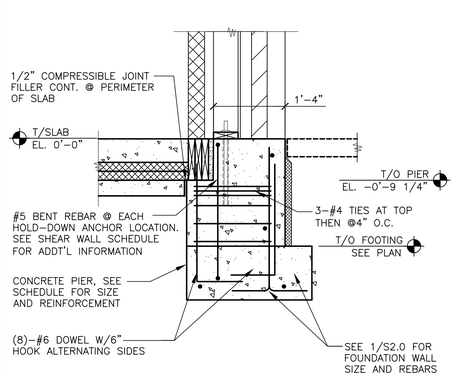
8 S3.2 **BRIDGING COLD-ROLLED CHANNEL WITH CLIP ANGLE**
3/4"=1'-0"

SEE SECTION 1/S2.0 & 6/S2.0 FOR ADDITIONAL INFORMATION




9 S3.2 **SECTION**
3/4"=1'-0"

SEE SECTION 1/S2.0 & 6/S2.0 FOR ADDITIONAL INFORMATION




10 S3.2 **SECTION**
3/4"=1'-0"

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PREPARED BY: AECOM Technical Services ENGINEERS, Inc. 6000 Fairview Road, Suite 200 Charlotte, NC 28210 License number F-0342 www.aecom.com T (704) 522 0330 F (704) 522 0063

| REV | DATE | DESCRIPTION |
|---|---|---|
| | | |

DATE:

DRAWN BY SK | STD ISSUE DATE 2023 11 | REVIEWED BY GA | DATE ISSUED 9/6/2024

TITLE: 2024 STANDARD BUILDING - BB20 4584-WOOD/WOOD

DESCRIPTION: WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & CI; WOOD TRUSS ROOF FRAMING; BRICK / ALPOLIC PANEL

SITE ADDRESS: 102 W CORNELIUS HARNETT BLVD LILLINGTON, NC

MSN: 10721 L/C: 032-0312

SHEET NO. S3.2 DETAILS

032-0312.00.0

PROJECT No. 60734777 Task: 032-0312

# STRUCTURAL GENERAL NOTES:

**DESIGN AND LOADING**

1. THE STRUCTURAL DESIGN OF THIS BUILDING WAS BASED ON THE DESIGN CRITERIA:
   BUILDING CODE: 2018 NORTH CAROLINA BUILDING CODE W/IBC 2015 AMENDMENTS
   A. FLOOR:
      LIVE LOAD: 115 PSF
   B. ROOF:
      LIVE LOAD: 20 PSF
      DEAD LOAD: 20 PSF
   C. SNOW:
      GROUND LOAD: 15 PSF
      FLAT ROOF LOAD: 15 PSF
      SNOW EXPOSURE FACTOR, CE: 1.0
      IMPORTANCE FACTOR, I: 1.0
      THERMAL COEFFICIENT, CT: 1.0
   D. WIND:
      BASIC WIND SPEED: 117 MPH (3-SECOND GUST ULTIMATE)
      BUILDING RISK CATEGORY: II
      WIND EXPOSURE: C
      PRESSURES PER ASCE 7-10
   E. SEISMIC:
      OCCUPANCY CATEGORY: II
      IMPORTANCE FACTOR: 1.00
      SITE CLASS: E
      SS = 0.181, S1= 0.085
      SDS = 0.302, SD1 = 0.199
      SEISMIC DESIGN CATEGORY: B
      PLYWOOD SHEAR WALLS (R = 6.5)
      STEEL ORDINARY CONCENTRICALLY BRACED FRAME (R = 3.25)
      Cs1: 0.0928 (LONGITUDINAL DIRECTION) Cs2: 0.0464 (TRANSVERSE DIRECTION)
      DESIGN BASE SHEAR = SEE CALCULATIONS
      ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
   F. FLOOD LOAD: N/A
   G. SPECIAL LOADS: N/A

**FOUNDATION NOTES**

1. THE FOUNDATION DESIGN OF THIS BUILDING WAS BASED ON THE FOLLOWING CRITERIA:
   A. MINIMUM ALLOWABLE SOIL BEARING CAPACITY = 3000 PSF.
      RECOMMENDED BY ECS SOUTHEAST, LLC IN THEIR REPORT 33:6900 DATED 15/07/2024
   B. ANY FILL REQUIRED BELOW SLABS ON GRADE OR FOOTINGS SHALL BE COMPACTED AS REQUIRED BY THE SOILS REPORT NOTED ABOVE.
2. ALL EXTERIOR FOOTINGS SHALL EXTEND BELOW THE MAXIMUM ANTICIPATED DEPTH OF FROST (1'-0" MIN.)
3. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OR ENGINEER OF RECORD IMMEDIATELY IN THE EVENT THAT THE SOILS CONDITIONS ENCOUNTERED VARY FROM THOSE SHOWN ON THE BORING LOGS.
4. THE GEOTECHNICAL REPORT PREPARED BY ECS SOUTHEAST, LLC SHALL BE CONSIDERED AN INTEGRAL PART OF THE CONTRACT DRAWINGS. IN THE EVENT OF ANY DISCREPANCIES BETWEEN THE REQUIREMENTS OUTLINED IN THE DRAWINGS AND THE GEOTECHNICAL REPORT, THE GEOTECHNICAL REPORT SHALL TAKE PRECEDENCE. IT IS THE RESPONSIBILITY OF ALL BIDDERS TO REVIEW AND ADHERE TO THE REQUIREMENTS OUTLINED IN THE GEOTECHNICAL REPORT PRIOR TO BIDDING ON THE WORK. THE CONTRACTOR IS OBLIGATED TO FOLLOW THE GUIDELINES AND SPECIFICATIONS OUTLINED IN THE GEOTECHNICAL REPORT, REGARDLESS OF WHETHER THIS INFORMATION IS ALSO PROVIDED IN THE DRAWINGS.
5. ALL FOUNDATION EXCAVATIONS SHALL BE INSPECTED BY A SOILS TESTING LABORATORY PRIOR TO PLACEMENT OF CONCRETE.
6. BECAUSE SOILS WITH ORGANIC MATTER WERE ENCOUNTERED BENEATH THE FOOTPRINTS OF THE PROPOSED BUILDING, IT WILL BE NECESSARY TO CONFIRM THE PRESENCE OF SUITABLE BEARING CONDITIONS AND SUITABLE UNDERLYING MATERIALS WITH HAND AUGER BORINGS OR OTHER METHODS DEEMED ACCEPTABLE BY APEC'S GEOTECHNICAL ENGINEER. WE RECOMMEND THAT THE FOUNDATION BEARING MATERIALS BE TESTED TO A DEPTH OF APPROXIMATELY 10 FEET BGS, AND THAT ALL UNSUITABLE MATERIALS, SUCH AS ORGANICS, BE REMOVED. THE RESULTING OVEREXCAVATION SHOULD BE BACKFILLED TO THE DESIGN BEARING ELEVATION WITH A CONTROLLED DENSITY MATERIAL APPROVED BY APEC'S GEOTECHNICAL ENGINEER (SUCH AS A 1,500 PSI "SAND MIX," FLOWABLE FILL, OR "LEAN" CONCRETE). PLEASE REFER TO FIGURE 4 IN APPENDIX A FOR A REPRESENTATION OF BUILDING FOOTER UNDERCUTTING PROCEDURES.
7. WE ESTIMATE THAT 40 PERCENT OF THE BUILDING FOUNDATION EXCAVATIONS WILL NEED TO BE OVEREXCAVATED TO A DEPTH OF 10 FEET BGS TO BEAR UPON SUITABLE MATERIALS.
8. SAFETY PROTOCOLS MAY REQUIRE ADDITIONAL EFFORT TO ALLOW ACCESS FOR THIS TESTING FROM SURFACE ELEVATIONS; THEREFORE, CONTINGENCIES FOR THESE SAFETY MEASURES SHOULD BE INCLUDED IN THE PROJECT BUDGET.
9. IN ORDER TO PROVIDE A SUITABLE SUBGRADE FOR THE SUPPORT OF FLOOR SLABS AND PAVEMENTS, WE RECOMMEND THAT SURFICIAL SOILS BE STABILIZED USING PORTLAND CEMENT PRIOR TO THE PLACEMENT OF GRADE-RAISE FILL MATERIALS, SLABS, OR PAVEMENTS.
10. CHEMICAL STABILIZATION OF SOILS SHOULD BE PERFORMED BY A CONTRACTOR SPECIALIZING IN THE FIELD. THESE CONTRACTORS HAVE THE SPECIALIZED EQUIPMENT AVAILABLE TO PROPERLY AND THOROUGHLY PULVERIZE THE SOIL AND THOROUGHLY BLEND THE CHEMICAL ADDITIVE INTO THE SOIL. WE RECOMMEND CONTACTING EITHER THE MT. CARMEL GROUP OR SPECIALTIES, INC. TO OBTAIN BIDS TO DESIGN THE STABILIZATION EFFORT.
11. THE AMOUNT OF CEMENT ADDED TO THE SOIL IS GENERALLY DETERMINED BY THE SPECIALTY CONTRACTOR AS PART OF THEIR WARRANTY CONDITIONS. FOR ESTIMATION PURPOSES, THE AMOUNT OF CEMENT ADDED TO THE SOIL IS GENERALLY ABOUT 5 TO 8 PERCENT (BY DRY WEIGHT) OF THE IN-SITU SOIL'S DRY WEIGHT (PER CUBIC FOOT). CONSIDERING THE CONDITIONS AND PLANNED DEVELOPMENT AT THIS SITE, WE RECOMMEND THAT THE SPECIALTY CONTRACTOR APPLY AND BLEND CEMENT TO A DEPTH OF AT LEAST 16 INCHES, BUT IF THEIR EQUIPMENT CAN PROVIDE DEEPER BLENDS, WE RECOMMEND THAT THE CONTRACTOR BE ALLOWED TO UTILIZE THE FULL DEPTH CAPABILITY OF THEIR EQUIPMENT.
12. BECAUSE THE POZZOLONIC EFFECT OCCURS OVER TIME, WE RECOMMEND THAT THE TREATED SOILS BE ALLOWED TO CURE FOR A MINIMUM OF 24 HOURS AFTER TREATMENT. NO TRAFFIC OR LOADS SHOULD BE APPLIED TO A TREATED SOIL DURING THIS TIME.
13. THE STABILIZATION CONTRACTOR MAY HAVE SPECIFIC SITE-PREPARATION REQUIREMENTS THAT MAY OVERRIDE THE RECOMMENDATIONS PRESENTED IN THIS SECTION, BUT IN GENERAL THE AREAS TO BE STABILIZED SHOULD BE STRIPPED OF ALL VEGETATION, TOPSOIL, DEBRIS, FREE OR STANDING WATER, AND ORGANIC MATERIALS, THEN GRADED SMOOTH AND LEVEL.

**CONCRETE AND REINFORCING**

1. ALL CONCRETE SHALL BE IN ACCORDANCE WITH THE "AMERICAN CONCRETE INSTITUTE BUILDING CODE" (ACI 318) AND WITH "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301) LATEST EDITIONS.
2. ALL NORMAL WEIGHT CONCRETE (145 PCF) SHALL OBTAIN A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI (3500 PSI FOR SLABS).
3. ALL CONCRETE SUBJECT TO EXTERIOR EXPOSURE SHALL BE AIR ENTRAINED AS RECOMMENDED BY ACI 318.
4. TEST CYLINDERS SHALL BE MADE AND TESTED AS OUTLINED IN CHAPTER 16 OF ACI-301.
5. REINFORCING BARS SHALL BE DEFORMED BARS OF NEW BILLET STEEL CONFORMING TO ASTM A-615, GRADE 60. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185. ALL REINFORCING AND ACCESSORIES SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI STANDARD 315 AND 315R.
6. PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCEMENT AT POSITIONS SHOWN ON THE PLANS AND DETAILS. PLASTIC COATED ACCESSORIES SHALL BE USED IN ALL EXPOSED CONCRETE WORK.
7. THE GENERAL CONTRACTOR SHALL CHECK WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND THE SUB-CONTRACTORS FOR OPENINGS, SLEEVES, ANCHORS, HANGERS, INSERTS, SLAB DEPRESSIONS AND OTHER ITEMS RELATED TO THE CONCRETE WORK AND SHALL ASSUME RESPONSIBILITY FOR THEIR PROPER LOCATION.

**STRUCTURAL STEEL**

1. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN CONFORMANCE WITH THE AISC360 "SPECIFICATION FOR STRUCTURAL STEEL". SEISMIC DESIGN OF STRUCTURAL STEEL STRUCTURES SHALL CONFORM TO AISC 341.
2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:
   A. ANCHOR RODS F1554, GRADE 36
   B. HIGH STRENGTH STRUCTURAL BOLTS A325-N U.N.O.
   C. STRUCTURAL SHAPES (W) A992
   D. STRUCTURAL SHAPES (M, S, C, MC, PLATES) A36
   E. STRUCTURAL SHAPES (HP) A572
   F. STRUCTURAL TUBING (HSS) A500 GRADE B
   G. STRUCTURAL ANGLES A36
3. ALL WELDING ELECTRODES SHALL BE E70-XX. ALL SHOP AND FIELD WELDING SHALL BE MADE IN ACCORDANCE WITH A.W.S. D1.1 "CODE FOR WELDING IN BUILDING CONSTRUCTION" AND SHALL BE MADE BY CERTIFIED WELDERS.

**LAMINATED VENEER LUMBER (LVL)**

1. ALL BEAMS SHALL BE MANUFACTURED WITH LAMINATED VENEER LUMBER AND WATERPROOF ADHESIVES.
2. SIZE, MANUFACTURER & SERIES OF ALL LVL MEMBERS SHALL BE AS SHOWN ON DRAWINGS.
3. ANY SUBSTITUTIONS MUST BE APPROVED IN WRITING BY ENGINEER OR ARCHITECT OF RECORD.
4. PROVIDE 3" MINIMUM BEARING OR AS SPECIFIED ON PLANS. REFER TO PLANS FOR FASTENING OF MULTIPLE PIECE BEAMS.

**OPEN WEB WOOD JOISTS**

1. OPEN WEB WOOD JOISTS SHALL BE MANUFACTURED WITH MACHINE STRESS RATED TOP AND BOTTOM CHORDS. WEBS SHALL BE TUBULAR STEEL MEMBERS PER MANUFACTURERS' SPECIFICATIONS.
2. SIZE, MANUFACTURER & SERIES OF ALL OPEN WEB JOISTS SHALL BE AS SHOWN ON DRAWINGS. ANY SUBSTITUTIONS MUST BE APPROVED IN WRITING BY ENGINEER OR ARCHITECT OF RECORD.
3. PROVIDE 3 1/2" MINIMUM BEARING OR AS SPECIFIED ON PLANS. SHIM AS REQUIRED TO PROVIDE FULL BEARING AND LEVEL SUPPORT.
4. DO NOT CUT TOP OR BOTTOM CHORDS.
5. ALL HANGERS AND FRAMING CONNECTORS SHOWN ARE MANUFACTURED BY SIMPSON STRONG TIE. ANY SUBSTITUTIONS MUST BE APPROVED IN WRITING BY ENGINEER OR ARCHITECT OF RECORD.
6. REFER TO PLANS FOR WEB STIFFENER AND CONCENTRATED LOAD REQUIREMENTS.
7. REFER TO MANUFACTURERS' INSTALLATION GUIDE FOR JOIST BRACING DURING ERECTION. REFER TO MANUFACTURERS' INSTALLATION GUIDE FOR JOIST BRIDGING REQUIREMENTS.

**SAWN LUMBER**

1. ALL GRADES OF LUMBER INDICATED ON STRUCTURAL DRAWINGS SHALL BE RATED BY THE SOUTHERN PINE INSPECTION BUREAU (SPIB), OR THE WESTERN WOOD PRODUCTS ASSOCIATION (WWPA). LUMBER GRADES SHALL BE AS FOLLOWS, WITH A MAXIMUM MOISTURE CONTENT OF 19%:
   A. SOUTHERN PINE NO. 1.
   B. DOUGLAS FIR-LARCH NO. 1.
   C. HEM-FIR NORTH NO. 1
2. BOLT HEADS AND NUTS BEARING ON WOOD SHALL BE PROVIDED WITH STANDARD CUT WASHERS. ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED.
3. MINIMUM NAILED CONNECTIONS FOR WOOD FRAMING MEMBERS SHALL BE IN ACCORDANCE WITH THE LOCAL BUILDING CODE OR TABLE 2304.9.1 OF THE INTERNATIONAL BUILDING CODE IF NO OTHER CRITERIA IS GIVEN.
4. CONNECTORS SHOWN ON THE DETAILS ARE MANUFACTURED BY SIMPSON. WRITTEN APPROVAL BY ENGINEER REQUIRED FOR SUBSTITUTIONS.

**ROOF & WALL SHEATHING**

1. ALL SHEATHING SHALL CONFORM TO AMERICAN PLYWOOD ASSOCIATION (APA) DESIGN SPECIFICATIONS, LATEST EDITION. SHEATHING SHALL BE CONTINUOUS OVER THREE ADJACENT SPANS MINIMUM.
2. WALL SHEATHING SHALL BE 15/32" (1/2" NOMINAL) APA RATED SHEATHING, EXPOSURE 1, 32/16. ALL WALL SHEATHING SHALL BE FASTENED TO SUPPORTING MEMBERS W/ 8d COMMON NAILS @ 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATED SUPPORTS, U.N.O.
3. ROOF SHEATHING SHALL BE 23/32" (3/4" NOMINAL) APA RATED SHEATHING, EXPOSURE 1, 48/24. ALL ROOF SHEATHING SHALL BE FASTENED TO SUPPORTING MEMBERS W/10d COMMON NAILS @ 4" O.C. AT PANEL EDGES, AND 12" O.C. AT INTERMEDIATE SUPPORTS. U.N.O.

**LIGHT GAGE METAL FRAMING**

1. 16 GA. AND HEAVIER STUDS SHALL HAVE A MINIMUM YIELD STRESS OF 50,000 PSI. 18 GA. AND LIGHTER STUDS AND TRACKS SHALL HAVE A MINIMUM YIELD STRESS OF 33,000 PSI.
2. STUDS AND TRACKS SHALL BE 18 GA. MINIMUM U.N.O. THEY SHALL BE MANUFACTURED BY DIETRICH INDUSTRIES, INC. OR APPROVED EQUAL.
3. PROVIDE DOUBLE STUDS FOR FULL HEIGHT OF WALL EACH SIDE OF ALL OPENINGS UNLESS OTHERWISE NOTED. WELD STUDS TO EACH OTHER WITH 1 1/2" LONG 1/8" FILLET WELDS AT 12" O.C. EACH SIDE. PROVIDE STUD TRACK AT EACH HEAD AND SILL.
4. REFER TO PLANS AND DETAILS FOR CONNECTION OF STUD WALLS TO FOUNDATION, FLOOR OR ROOF.

**SHOP DRAWINGS**

1. SHOP DRAWING SUBMITTALS SHALL BE SUBMITTED ELECTRONICALLY.
2. SHOP DRAWINGS SHALL BE REVIEWED BY CONTRACTOR TO VERIFY THAT SUBMITTAL IS COMPLETE PRIOR TO SUBMITTING TO ARCHITECT/ENGINEER.
3. DRAWINGS CREATED BY THE ENGINEER OF RECORD CANNOT BE REPRODUCED AND/OR USED AS A SHOP DRAWING SUBMITTAL. SHOP DRAWING SUBMITTALS SHALL INCLUDE THE FOLLOWING:
   A. CONCRETE MIX DESIGN
   B. FOUNDATION REINFORCING BARS
   C. STRUCTURAL STEEL
   D. OPEN WEB JOISTS AND CALCULATIONS
   E. ROOF SHEATHING
   F. TRELLIS SYSTEM & CALCULATIONS
   G. LAMINATED VENEER LUMBER (LVL)
   H. SAWN LUMBER AND CONNECTORS

**SPECIAL INSPECTIONS**

1. SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 1705 OF IBC AND THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED UNDER SECTION 1705. THE FOLLOWING AREAS OF WORK REQUIRE SPECIAL INSPECTIONS IN ACCORDANCE WITH THE LISTED 2018 INTERNATIONAL BUILDING CODE SECTIONS/LOCATIONS:
   A. SOILS - SECTION 1705.6 PER TABLE 1705.6
   B. CONCRETE - SECTION 1705.3 PER TABLE 1705.3
   C. STEEL - SECTION 1705.2 (SEE AISC 360.10)
   D. MASONRY - SECTION 1705.4
   E. WOOD - SECTION 1705.5

**MISCELLANEOUS**

1. ALL DIMENSIONS ON STRUCTURAL DRAWINGS TO BE CHECKED AGAINST ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS BY THE GENERAL CONTRACTOR AND ANY DISCREPANCIES ARE TO BE REPORTED TO THE ARCHITECT IMMEDIATELY.
2. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY, UNRELIEVED BY REVIEW OF SHOP DRAWINGS OR PERIODIC OBSERVATION OF CONSTRUCTION, FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS, FOR FABRICATION PROCESSES AND CONSTRUCTION TECHNIQUES, AND FOR SAFE CONDITIONS ON THE JOB SITE.
3. DO NOT SCALE THE DRAWINGS.

## CONCRETE BLOCK JOINT REINFORCEMENT:

ALL CONCRETE BLOCK WALLS TO RECEIVE THE FOLLOWING JOINT REINFORCEMENT: LADDER TYPE JOINT REINFORCING WITH SIDE AND CROSS RODS WITH WIRE SIZE (W2.8 OR 3/16"ø) SPACED 16" O.C. VERTICALLY. (HOHMANN & BARNARD 220 "SUPER HEAVY DUTY" OR EQUAL) SIMILAR FOR CONCRETE BRICK PRODUCTS.

1 / S4.0 — CONCRETE BLOCK JOINT REINFORCEMENT

## VENEER TIE REQUIREMENTS:

1. VENEER TIES TO BE SPACED 16" O.C. VERTICALLY AND 24" O.C. HORIZONTALLY. PROVIDE A CONTINUOUS WIRE SIZE (W2.8 OR 3/16"ø) SPACED 16" O.C. VERTICALLY WITHIN VENEER MORTAR JOINT TO ENGAGE VENEER TIES. (HOHMANN & BARNARD VBT – VEE-BYNA TIE AND SEISMICLIP INTERLOCK SYSTEM (S.I.S.) – SEISMIC CLIP WITH DW10-HS ANCHOR PLATE OR APPROVED EQUAL).

2 / S4.0 — VENEER TIE REQUIREMENTS

| REV | DATE | DESCRIPTION |
|---|---|---|
| - | - | - |

DATE: .....

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|---|---|
| DRAWN BY | SK |
| STD ISSUE DATE | 2023 11 |
| REVIEWED BY | QA |
| DATE ISSUED | 9/6/2024 |

TITLE: 2024 STANDARD BUILDING - BB20
4584-WOOD/WOOD

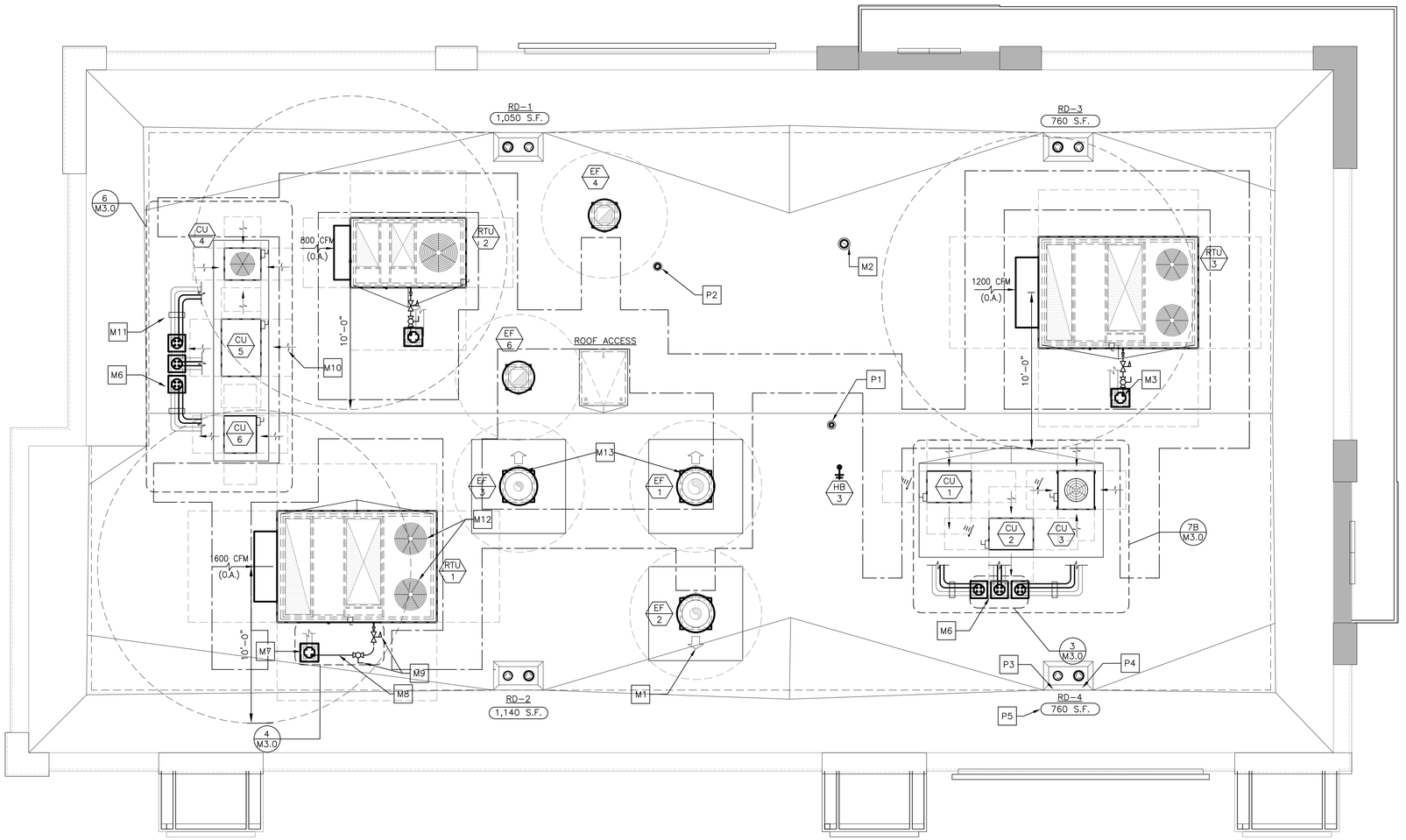
DESCRIPTION
WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & CI
WOOD TRUSS ROOF FRAMING
BRICK / ALPOLIC PANEL

NSN: 10721
L/C: 032-0312

SITE ADDRESS
102 W CORNELIUS HARNETT BLVD
LILLINGTON, NC

SHEET NO.
032-0312.00.0
S4.0
STRUCTURAL NOTES

PROJECT No. 60734777 Task: 032-0312




1 M1.0 ROOF PLAN
1/4"=1'-0"

CONDENSATE LINE FROM RTUs DOWN THROUGH THE ROOF ON UNITS BASE, TO BE FURNISHED AND INSTALLED BY PC. SEE PLUMBING SHEETS P1.2, P2.1 AND COORDINATION SCHEDULE ON M4.1.

## DRAWING NOTES

1. ROOFTOP EQUIPMENT LOCATIONS SHOWN ARE GENERAL. ACTUAL LOCATIONS SHALL BE COORDINATED WITH THE STRUCTURAL DRAWINGS.
2. ROOF OPENINGS FOR ROOFTOP UNITS AND EXHAUST FANS SHALL BE COORDINATED WITH THE MANUFACTURER.
3. ROOF OPENINGS FOR PIPE PORTALS SHALL ONLY BE LARGE ENOUGH TO ALLOW PIPE AND CONDUIT PENETRATIONS. PIPE PORTAL CURB SHALL BE FILLED WITH AS MUCH BATT INSULATION AS POSSIBLE.
4. PRIOR TO INSTALLING THE TOP OF THE EQUIPMENT PLATFORM, INSIDE OF THE PLATFORM SHALL BE INSULATED WITH AS MUCH BATT INSULATION AS POSSIBLE.

## KEYED NOTES

- M1 ARROW INDICATES DIRECTION OF EXHAUST FAN HINGE SWING (TYP.)
- M2 6"ø ALUMINUM EXHAUST DUCT FROM EXHAUST FAN (EF-5). PROVIDE PORTALS PLUS PLASTI-FLASH WITH C-126 CAP (OR EQUAL) FOR ROOF PENETRATION. TERMINATE DUCT A MIN. OF 24" ABOVE FINISHED ROOF WITH GOOSENECK.
- M3 GAS PIPING DOWN (TYP. 3 PLACES)
- M4 MAINTAIN A MINIMUM 10'-0" CLEARANCE FROM EDGE OF OUTLETS AND VENT TERMINALS TO FRESH AIR INTAKES (TYP.)
- M5 NOT USED
- M6 ROOF PIPE PORTAL FOR CONDENSING UNITS
- M7 ROOF PIPE PORTAL FOR ROOFTOP UNITS (TYP. 3 PLACES)
- M8 GAS PIPING FROM ROOF PORTAL TO ROOFTOP UNIT SHALL BE COATED WITH A CORROSION RESISTANT PAINT (SEE SHEET M4.0 "NATURAL GAS SYSTEMS", NOTE 8).
- M9 GAS PRESSURE REGULATOR AND SHUT-OFF VALVE, SET PRESSURE AT 7" W.C. - NATURAL GAS (TYP. OF 3)
- M10 ARROW INDICATES DIRECTION OF AIRFLOW FOR CONDENSING OR ROOFTOP UNIT AIR INTAKE (TYP.)
- M11 REFRIGERANT PIPING SUPPORT AS REQUIRED. PROVIDE ROOFTOP BLOX MODEL RTB-01 (OR EQUAL) AND ALL NECESSARY ACCESSORIES FOR PROPER PIPE AND CONDUIT SUPPORT. PROVIDE GALVANIZED PIPE SHIELD TO PROTECT INSULATION AT ALL SUPPORTS.
- M12 PROVIDE HAIL GUARD FOR RTU-1 PROTECTING CONDENSER COIL FROM GREASE.
- M13 EXHAUST FANS WITH WINDBAND EXTENSION TO PREVENT DIRECT GREASE BLOW ONTO CONDENSER COIL OF UNIT RTU-1.
- P1 CONCENTRIC VENTING KIT FOR COMBUSTION AIR INTAKE AND FLUE EXHAUST FOR SEALED COMBUSTION WATER HEATER (SEE PLUMBING DRAWINGS). PROVIDE PORTALS PLUS PLASTIFLASH WITH C-126 CAP (OR EQUAL) FOR ROOF PENETRATION.
- P2 PLUMBING VENT THROUGH ROOF (SEE PLUMBING DRAWINGS). PROVIDE PORTALS PLUS PLASTI-FLASH WITH C-126 CAP (OR EQUAL) FOR ROOF PENETRATION.
- P3 PRIMARY ROOF DRAIN WITH DOME STRAINER (TYP). (SEE PLUMBING DRAWINGS)
- P4 OVERFLOW ROOF DRAIN WITH DOME STRAINER (TYP). (SEE PLUMBING DRAWINGS)
- P5 AREA OF ROOF SERVED BY ROOF DRAIN (TYP.)

## PIPE PORTAL SCHEDULE

| MANUFACTURER | CURB DIMENSIONS | CURB TYPE | CAP TYPE (QTY) | SERVES |
|---|---|---|---|---|
| RPS | 12"x12"x11"H | RC-2A | N18 (1) | RTU-1 THROUGH RTU-3 |
| RPS | 43"x12"x13"H | RC-2A | N18 (3) | CU-1 THROUGH CU-6 |

## SEQUENCE OF OPERATION

| THERMOSTAT SETTINGS | | | |
|---|---|---|---|
| | | SETPOINTS | |
| MODE | FAN | COOLING | HEATING |
| OCCUPIED | ON | 75°F | 70°F |
| UNOCCUPIED | AUTO | 90°F | 55°F |
| HUMIDITY | | | |
| HUMIDITY SETPOINT (FOR DEHUMIDIFICATION UNITS ONLY) | | 60% | |

RTU-1, RTU-2 & RTU-3:

1. OCCUPIED MODE SHALL BEGIN AS FOLLOWS:
   - RTU-1: 1.5 HOURS BEFORE OPEN
   - RTU-2: 1 HOUR BEFORE OPEN
   - RTU-3: 30 MINUTES BEFORE OPEN
2. ROOFTOP UNIT FAN SHALL RUN CONTINUOUSLY DURING OCCUPIED MODE
3. ECONOMIZER SHALL BE OPEN DURING OCCUPIED MODE (OUTDOOR AIR THROUGH ROOFTOP UNITS SERVES AS MAKE-UP AIR FOR THE KITCHEN EXHAUST SYSTEM) - REFER TO E3.2 FOR HOOD/FAN INTERLOCK DETAILS.
4. UNOCCUPIED MODE SHALL BEGIN ONE (1) HOUR AFTER STORE CLOSES
5. DURING UNOCCUPIED MODE, ECONOMIZER IS CLOSED AND HEATING, COOLING AND FAN OPERATE IN AUTO MODE (ON DEMAND)
6. RTU-2 SHALL BE INTERLOCKED WITH EF-6. UPON ACTIVATION OF EF-6, RTU-2 SHALL INCREASE SUPPLY AND OUTSIDE AIR BY 600 CFM, WHILE MAINTAINING 1200 CFM RETURN AIR. COORDINATE WITH E.C. AND BAS SUPPLIER.

PROJECT No. 60734777 Task: 032-0312

| NO. | DESCRIPTION | DATE | REV |
|---|---|---|---|
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DATE: .....

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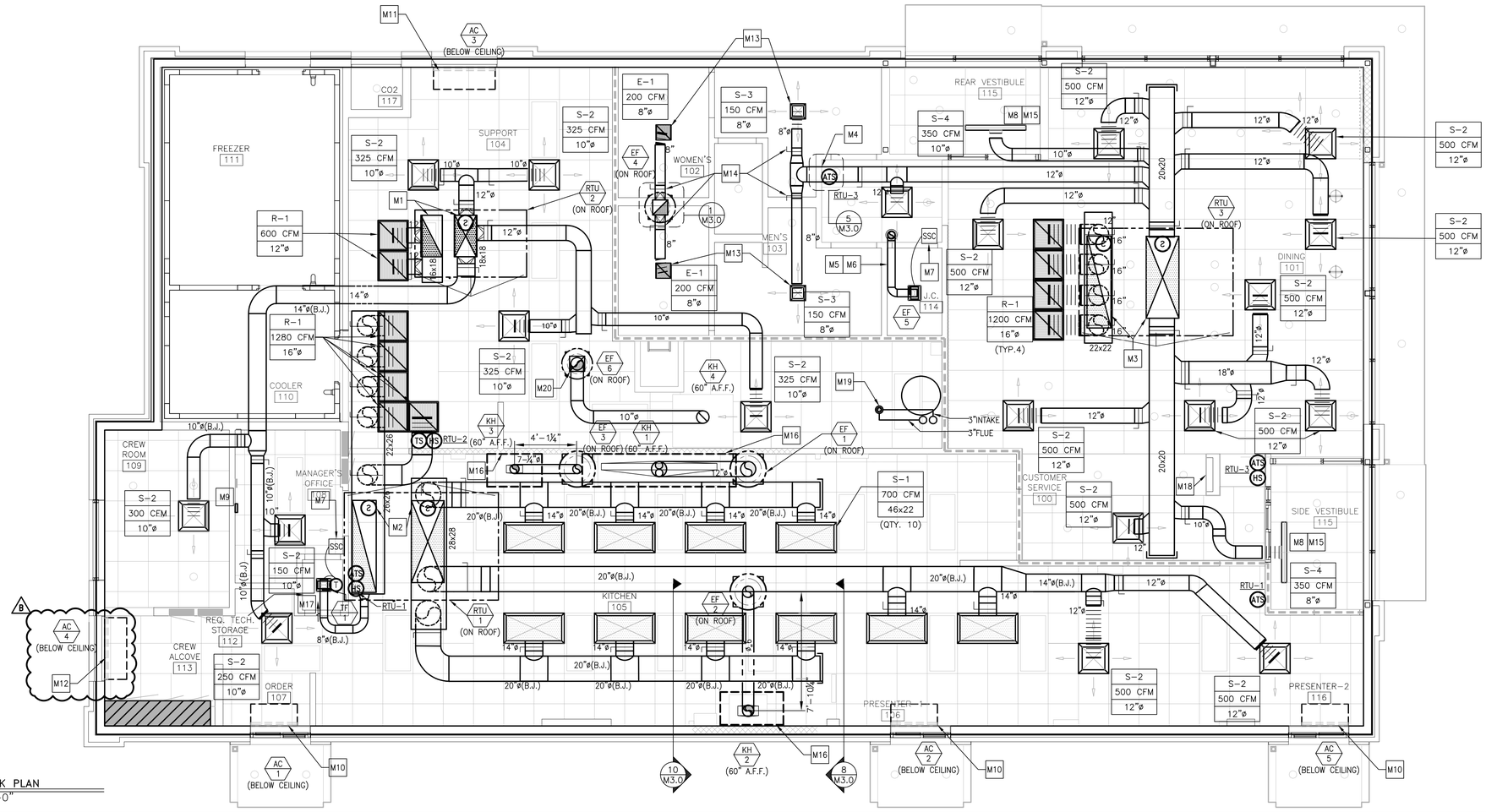
TITLE
2024 STANDARD BUILDING - BB20
4584-WOOD/WOOD

DESCRIPTION
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WOOD TRUSS ROOF FRAMING
BRICK/ ALPOLIC PANEL

MSN: 10721 SITE ADDRESS
L/C.032-0312 102 W CORNELIUS HARNETT BLVD
LILLINGTON, NC

DRAWN BY DT
STD ISSUE DATE 2023.11
REVIEWED BY QA
DATE ISSUED 9/6/2024

SHEET NO. 032-0312.00.0
M1.0
ROOF PLAN




1 M1.2 DUCTWORK PLAN
1/4"=1'-0"

## DRAWING NOTES

1. ALL DUCTWORK SHALL BE RUN BETWEEN OR THROUGH THE JOISTS UNLESS NOTED OTHERWISE. DUCTWORK DESIGNATED WITH (B.J.) SHALL BE RUN BELOW THE JOISTS.
2. DUCT SIZES SHOWN ARE INTERNAL FREE AREA DIMENSIONS UNLESS NOTED OTHERWISE.
3. ALL SHEET METAL DUCTWORK SHALL BE EXTERNALLY INSULATED. INSULATION IS NOT SHOWN FOR CLARITY. SEE MECHANICAL NOTES FOR INSULATION REQUIREMENTS.
4. CARBON STEEL KITCHEN EXHAUST DUCTWORK SHALL BE EXTERNALLY INSULATED. INSULATION NOT SHOWN FOR CLARITY. SEE MECHANICAL NOTES AND DETAILS FOR INSULATION REQUIREMENTS.
5. RETURN AIRFLOW VOLUME SHOWN ON PLAN IS FOR DUCTWORK SIZING PURPOSES WHEN THE UNIT IS IN RECIRCULATION (UNOCCUPIED) MODE.
6. DIFFUSERS IN DINING ROOM ARE SPECIFIC TO THE DECOR PLAN SHOWN. DIFFERENT CEILING LAYOUTS MAY REQUIRE A DIFFERENT DIFFUSER TYPES, QUANTITIES, LOCATIONS AND FINISHES/COLORS.
7. NO DIFFUSERS OR GRILLES TO BE INSTALLED ABOVE KIOSKS TO AVOID CONFLICTS WITH KIOSK'S CEILING PENETRATIONS FOR CONDUITS

## KEYED NOTES

M1 17x33 SUPPLY AND 17x33 RETURN DUCT DROPS FROM ROOFTOP UNIT (RTU-2)

M2 26x65 SUPPLY AND 19x73 RETURN DUCT DROPS FROM ROOFTOP UNIT (RTU-1)

M3 26x65 SUPPLY AND 19x73 RETURN DUCT DROPS FROM ROOFTOP UNIT (RTU-3)

M4 PROVIDE SHEET METAL DUCT AT ALL DRAFTSTOP WALL PENETRATIONS (TYP.)

M5 6"ø ALUMINUM DUCT FROM EXHAUST FAN UP THROUGH ROOF

M6 EXTERNALLY INSULATE EXHAUST DUCT FROM FAN TO ROOF PENETRATION

M7 STEADY STATE SPEED CONTROLLER FOR CEILING MOUNTED EXHAUST FAN. STEADY STATE SPEED CONTROLLER SHALL BE INSTALLED OVER SUSPENDED CEILING FOR ACCESS. DO NOT INSTALL OVER AREAS WITH DRYWALL CEILINGS.

M8 SET DIFFUSER'S (S-4) SLOTS FOR HORIZONTAL THROW PATTERN (TYP.)

M9 BUILDING AUTOMATION SYSTEM LOCATION. SEE LIGHTING CONTROL DETAILS ON SHEET E4.1.

M10 MOUNT AIR CURTAIN TIGHT TO CEILING

M11 MOUNT AIR CURTAIN WITH BOTTOM OF UNIT AT TOP OF DOOR FRAME

M12 MOUNT AIR CURTAIN WITH BOTTOM OF UNIT ABOVE DOOR FRAME AND TOP OF SWITCHGEAR TO MEET 3'-0" MINIMUM SWITCHGEAR'S CLEARANCE REQUIREMENT

M13 FOR DIFFUSERS INSTALLED IN DRYWALL CEILINGS, VOLUME DAMPER IS INTEGRAL TO DIFFUSER AND ADJUSTABLE AT FACE OF DIFFUSER (SEE NOTE 18 UNDER "VENTILATION SYSTEMS" ON DRAWING M4.0 AND AIR DEVICE SCHEDULE ON DRAWING M4.1)

M14 FOR DIFFUSERS INSTALLED IN DRYWALL CEILINGS, INSTALL HIGH-EFFICIENCY TAKE-OFFS WITH VOLUME DAMPER IN FULL-OPEN POSITION TO FACILITATE BALANCING AT FACE OF DIFFUSER.

M15 GENERAL CONTRACTOR SHALL PROVIDE ADDITIONAL T-BAR FRAME TO PROPERLY LOCATE DIFFUSER AS SHOWN. AIR STREAM FROM DIFFUSER SHALL COVER ENTIRE DOOR OPENING.

M16 NONCOMBUSTIBLE WALL CONSTRUCTION BEHIND TYPE I KITCHEN HOODS. REFER TO SHEET A1.0 FOR MORE INFORMATION.

M17 ONE INCH DOOR UNDERCUT TRANSFER AIR TO CLOSET (100 CFM)

M18 MECHANICAL CONTRACTOR TO PROVIDE 4x12 LOUVERED RETURN AIR BEHIND EACH RECESSED MENU BOARD. SEE ARCHITECTURAL PLANS, DETAIL 14/A3.1. AND AIR DEVICE SCHEDULE (R-2) ON SHEET M4.1.

M19 PROVIDE AIR INTAKE AND FLUE EXHAUST PER MANUFACTURER'S INSTALLATION MANUAL. AIR INTAKE AND FLUE EXHAUST TO COMBINE WITH CONCENTRIC VENT KIT. REFER TO 6/P3.0 FOR FURTHER DETAILS.

M20 10" TYPE 304 STAINLESS STEEL DUCT FROM TYPE II EXHAUST HOOD UP THROUGH ROOF TO EXHAUST FAN. DUCTWORK SHALL BE PITCHED TOWARDS TYPE II EXHAUST HOOD. EXTERNALLY INSULATE EXHAUST DUCT FROM TYPE II EXHAUST HOOD CONNECTION TO ROOF PENETRATION.

### 2021 IMC SECTION 403.3 - VENTILATION SCHEDULE

| UNIT | AREA SERVED | AREA FT² (Az) | CFM/PERSON (Rp) | CFM/FT² (Ra) | PEOPLE OR PEOPLE/1000 FT² (Pz) | UNCORRECTED REQUIRED O/A CFM (Vbz) | Ez* | Ev** | REQUIRED O/A CFM (Vot)*** | ACTUAL O/A CFM | REQUIRED EXHAUST CFM | ACTUAL EXHAUST CFM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RTU-1 | KITCHEN | 1093 | 7.5 | 0.18 | 15 | - | 0.8 | | | | | |
| | | | | | | 309 | | | 387 | 1600 | | |
| RTU-2 | SUPPORT | 581 | 0 | 0.12 | 4 | 70 | 0.8 | 0.84 | - | - | | |
| | MANAGER'S OFFICE | 66 | 5 | 0.06 | 1 | 9 | 0.8 | | - | - | | |
| | CREW ROOM | 97 | 5 | 0.06 | 3 | 21 | 0.8 | | - | - | | |
| | KITCHEN BACKROOM | 97 | 5 | 0.06 | 2 | 16 | 0.8 | | - | - | | |
| | | | | | | 115 | | | 144 | 800 | | |
| RTU-3 | DINING | 751 | 7.5 | 0.18 | 93 | 833 | 0.8 | 0.91 | - | - | | |
| | REAR VESTIBULE | 57 | 0 | 0.06 | 0 | 3 | 0.8 | | - | - | | |
| | SIDE VESTIBULE | 58 | 0 | 0.06 | 0 | 3 | 0.8 | | - | - | | |
| | RESTROOM HALLWAY | 67 | 0 | 0.06 | 0 | 4 | 0.8 | | - | - | | |
| | | | | | | 844 | | | 1055 | 1200 | | |
| EF-1, 2 & 3 | KITCHEN | 1093 | - | 0.7 | - | - | - | - | - | - | 765 | 2405 |
| EF-4 | WOMEN'S | 146 | - | - | - | - | - | - | - | - | 100 | 200 |
| | MEN'S | 127 | - | - | - | - | - | | - | - | 100 | 200 |
| EF-5 | JAN CLOSET | 20 | - | - | - | - | - | - | - | - | 75 | 75 |
| EF-6 | WAREWASHER | 15 | - | - | - | - | - | - | - | - | 350 | 600 |
| | | | | | | | | | | TOTAL | 1490 | 3480 |

### AIR BALANCE SCHEDULE

| UNIT | SUPPLY AIR | RETURN AIR | OUTDOOR AIR | EXHAUST AIR | PRESSURE |
|---|---|---|---|---|---|
| RTU-1 | 8000 | 6400 | 1600 | | 1600 |
| RTU-2 | 2000 | 1200 | 800 | | 800 |
| RTU-3 | 6000 | 4800 | 1200 | | 1200 |
| EF-1 | | | | 1350 | -1350 |
| EF-2 | | | | 575 | -575 |
| EF-3 | | | | 480 | -480 |
| EF-4 | | | | 400 | -400 |
| EF-5 | | | | 75 | -75 |
| EF-6 | | | | 600 | -600 |
| TOTALS | 16000 | 12400 | 3600 | 3480 | 120 |

NOTES:
1. BALANCING TOLERANCES ARE AS FOLLOWS:
   HOODS: 0% TO +10%
   OUTDOOR AIR: 0% TO +10%
   SUPPLY AND RETURN AIR DIFFUSERS: -10% TO +10%
   TOILET EXHAUST AIR: -10% TO +10%
2. BALANCE ROOFTOP UNIT SUPPLY AND RETURN AIR PRIOR TO TURNING ON EXHAUST FANS.
3. EXHAUST HOODS SHALL BE BALANCED WITH A 4" VANE ANEMOMETER.
4. RTU BLOWER TO RUN CONTINUOUSLY DURING OCCUPIED HOURS. REFER TO SEQUENCE OF OPERATIONS ON M1.0 AND E3.2 FOR HOOD/FAN INTERLOCK DETAILS.
5. EF-6 DOES NOT RUN CONTINUOUSLY - VALUES SHOWN IN AIR BALANCE SCHEDULE REFLECT OPERATIONAL STATE. WHEN EF-6 IS NOT OPERATIONAL, RTU-2 SHALL BE DECREASED BY 600 CFM ACCORDINGLY. REFER TO M1.0 FOR ADDITIONAL DETAILS OF SEQUENCE OF OPERATIONS AND INTERLOCKING REQUIREMENTS.

### HEATING SCHEDULE

| EQUIPMENT | INPUT (BTU/HR) | OUTPUT (BTU/HR) | REQUIRED HEAT (BTU/HR) |
|---|---|---|---|
| ROOFTOP UNIT (RTU-1) | 250,000 | 203,000 | 85,000 |
| ROOFTOP UNIT (RTU-2) | 60,000 | 48,000 | 46,700 |
| ROOFTOP UNIT (RTU-3) | 250,000 | 203,000 | 81,300 |
| TOTALS | 560,000 | 454,000 | 213,000 |

| REV | DATE | DESCRIPTION |
|---|---|---|
| B | 7/24/2023 | DOOR SIZE REVISED PER 00 REQUEST |

DATE:

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REVIEWED BY: QA | DATE ISSUED: 9/6/2024

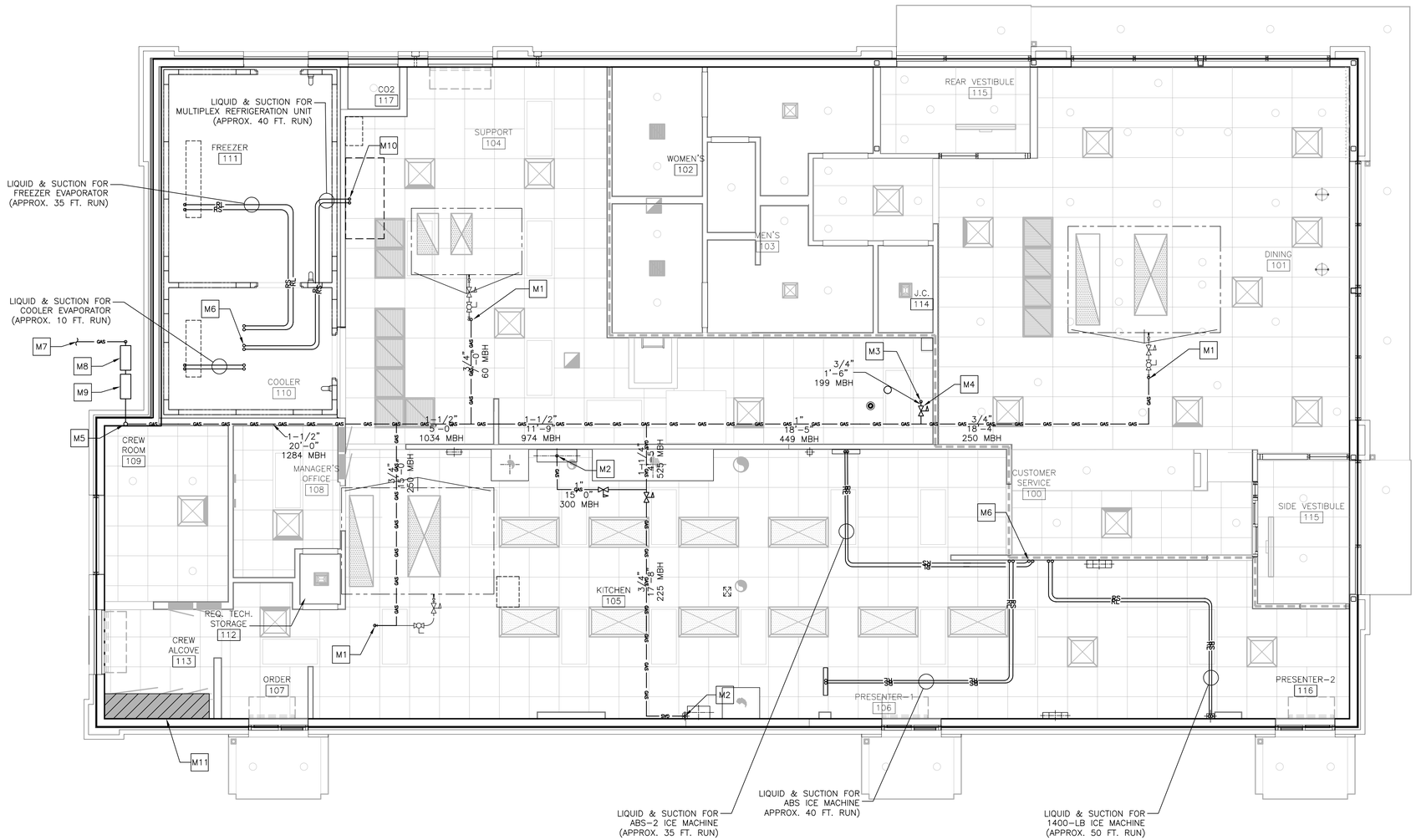
TITLE: 2024 STANDARD BUILDING - B20
4584-WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & CI
WOOD TRUSS ROOF FRAMING
BRICK/ ALPOLIC PANEL

NSN: 10721 | SITE ADDRESS: 102 W CORNELIUS HARNETT BLVD
L/C: 032-0312 | LILLINGTON, NC

SHEET NO.
032-0312.00.0
M1.2
DUCTWORK PLAN

PROJECT No. 60734777 Task: 032-0312




1 M1.4 MECHANICAL PIPING PLAN
1/4"=1'-0"

## DRAWING NOTES

1. GAS PIPING LENGTHS ARE APPROXIMATE AND ARE SHOWN FOR SIZING PURPOSES ONLY.
2. REFRIGERANT PIPE SIZES SHALL BE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

## KEYED NOTES

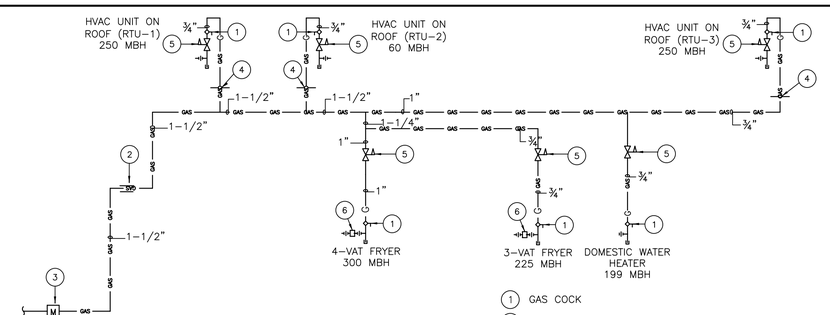
- M1 GAS PIPE UP THROUGH ROOF TO RTU (TYP. 3 PLACES)
- M2 GAS PIPE DOWN IN CHASE TO COOKING APPLIANCE – APPROX. 11 FT. DROP (TYP. 2 PLACES)
- M3 GAS PIPE DOWN TO WATER HEATER – APPROX. 10 FT. DROP
- M4 SIZE REGULATOR PROPERLY FOR APPLICATION – SET GAS PRESSURE REGULATOR OUTLET PRESSURE TO 10" W.C. AND PROVIDE VENT THROUGH ROOF AS REQUIRED
- M5 GAS PIPE UP IN WALL – APPROX. 10 FT. RISE
- M6 REFRIGERANT LIQUID AND SUCTION LINES UP THROUGH ROOF TO CONDENSING UNITS (TYP. 6 PLACES – SEE DETAIL 3 ON DRAWING M3.0)
- M7 INCOMING SERVICE LINE – SEE GAS PIPING NOTES ON DRAWING M4.0
- M8 INCOMING SERVICE REGULATOR SET TO 2 PSIG
- M9 INCOMING SERVICE METER – SEE GAS LOAD SCHEDULE FOR SIZING
- M10 REFRIGERANT LINES DOWN TO SODA SYSTEM (MULTIPLEX).
- M11 UTILITIES SHALL NOT BE ROUTED ABOVE TECH. CLOSET. OR SWITCHGEAR.

**GAS LOAD SCHEDULE**

| EQUIPMENT | INPUT (BTU/HR) | GAS FLOW (1,000 BTU/CF) (CF/HR) |
|---|---|---|
| ROOFTOP UNIT (RTU-1) | 250,000 | 250 |
| ROOFTOP UNIT (RTU-2) | 60,000 | 60 |
| ROOFTOP UNIT (RTU-3) | 250,000 | 250 |
| FRY STATION (3-VAT) | 225,000 | 225 |
| FILET STATION (4-VAT) | 300,000 | 300 |
| WATER HEATER (WH-1) | 199,000 | 199 |
| TOTAL | 1,284,000 | 1284 |

### PIPING KEY

1 1/2" GAS 10'-11" 1010 MBH
- PIPE SIZE
- PIPE LENGTH
- LOADING ON PIPE LENGTH




## GAS RISER DIAGRAM

NOT TO SCALE

1. GAS COCK
2. PIPE PENETRATION THRU BUILDING STRUCTURE. PROVIDE PIPE SLEEVE AS REQUIRED.
3. GAS COMPANY METER/REGULATOR
4. GAS PIPING UP THRU THE ROOF. COORDINATE PIPE ROOF PENETRATION WITH AC UNIT LOCATION IN THE FIELD.
5. GAS REGULATOR (SEE DETAIL 4/M3.0)
6. AUTOMATIC GAS SHUT-OFF VALVE PART OF ANSUL PACKAGE

| REV | DATE | DESCRIPTION |
|---|---|---|
| | | |

DATE: .....

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NSN: 10721 | SITE ADDRESS: 102 W CORNELIUS HARNETT BLVD
L/C: 032-0312

SHEET NO. M1.4 — MECH. PIPING PLAN

032-0312.00.0

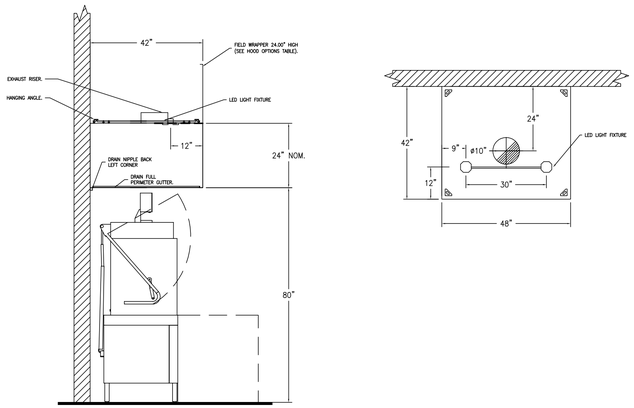
PROJECT No. 60734777 Task: 032-0312

*HOOD INFORMATION*

| HOOD NO. | TAG | MODEL | LENGTH | MAX. COOKING TEMP. | APPLIANCE DUTY | DESIGN CFM/FT. | TOTAL EXH. CFM | EXHAUST PLENUM RISER(S) | | | | | | | HOOD CONSTRUCTION | HOOD CONFIG. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | WIDTH | LENG. | HEIGHT | DIA. | CFM | VEL. | S.P. | | END TO END | ROW |
| 1 | DISH | CLASS 2 | 48" | NA | DISH | 150 | 600 | | | 4" | 10" | 600 | 1100 | -0.25" | 304 SS | ALONE | ALONE |

*HOOD OPTIONS*

| HOOD NO. | TAG | OPTION |
|---|---|---|
| 1 | DISH | FASCIA PANEL 14.00" HIGH FRONT, LEFT, RIGHT (FASCIA HEIGHT INCREASES FOR TALLER CEILING) |
| | | |
| | | |

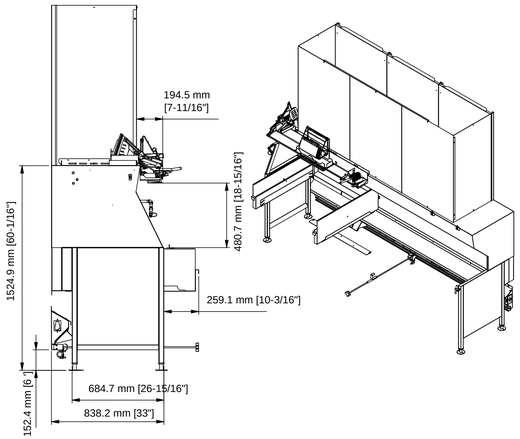


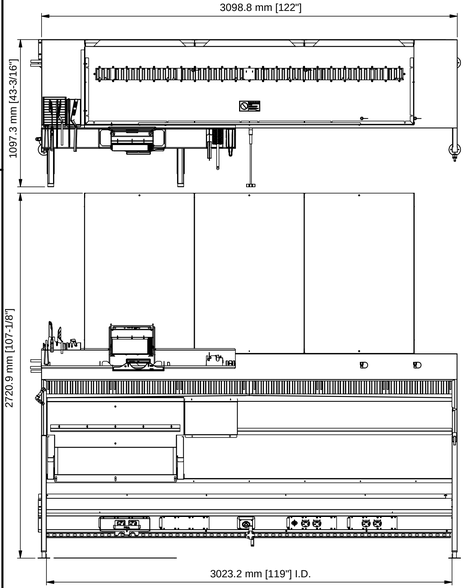




## KITCHEN EXHAUST HOOD (TYPE II)

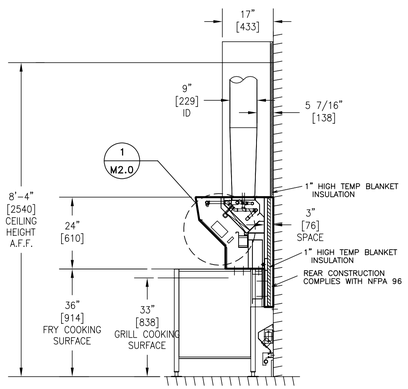
TAG: KH-4 (SEE KITCHEN EXHAUST HOOD SCHEDULE)
N.T.S.

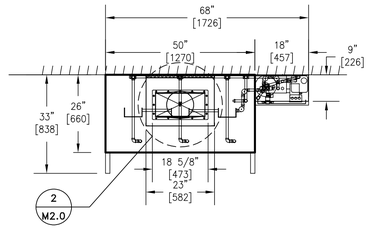


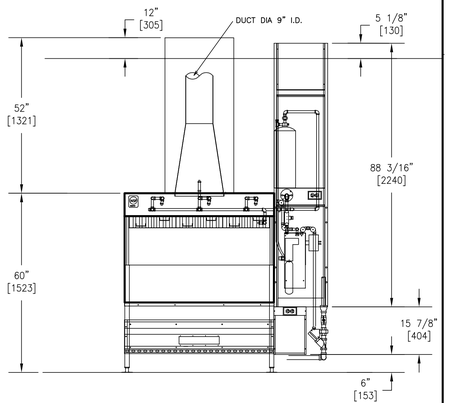




## KITCHEN EXHAUST HOOD (TYPE I)

TAG: KH-1 (SEE KITCHEN EXHAUST HOOD SCHEDULE)
SCALE: ½"=1'-0"

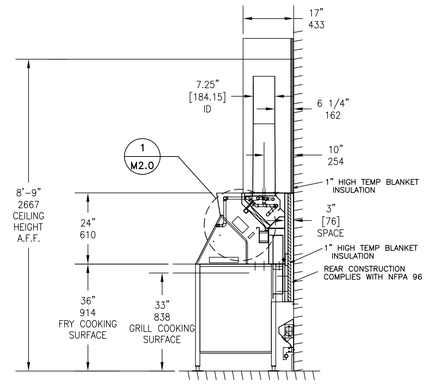


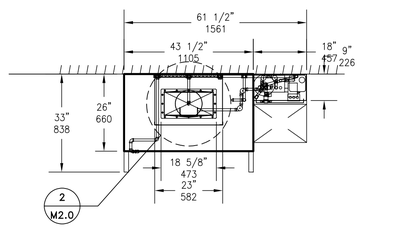



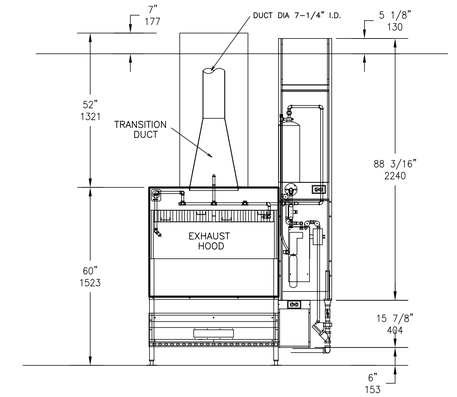




## KITCHEN EXHAUST HOOD (TYPE I)

TAG: KH-2 (SEE KITCHEN EXHAUST HOOD SCHEDULE)
SCALE: ½"=1'-0"



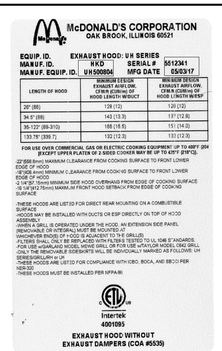




## KITCHEN EXHAUST HOOD (TYPE I)

TAG: KH-3 (SEE KITCHEN EXHAUST HOOD SCHEDULE)
SCALE: ½"=1'-0"

## DRAWING NOTES

1. 16 GA. STAINLESS STEEL MATERIAL USED FOR HOOD CONSTRUCTION
2. FILTER BAFFLE:
   UL FILE R14372, VOL. 1, SEC. 1
   UL CONTROL NUMBER 5L65
   MEA-446-92-M
3. EXHAUST HOOD:
   UL FILE MH12755, VOL. 4
   UL CONTROL NUMBER 78L1
4. UTILITY CHASE AND RACEWAY:
   UL FILE E163328, VOL.1, SEC.3
5. HIGH TEMP GASKET:
   UL FILE MH12755, VOL. 2, SEC. 1, ILL. 9
6. HOOD CONSTRUCTION COMPLIES WITH NSF STANDARD 2
7. HOOD PERFORMANCE TESTED IN ACCORDANCE WITH UL 710
8. UL 300 AND NFPA 17A COMPLIANT R-102 WET CHEMICAL SYSTEM INCLUDED WITH HOOD INSTALLATION
9. ANSUL CONNECTIONS AND STARTUP BY APPROVED ANSUL REPRESENTATIVE
10. REFER E3.2 FOR HOOD/FAN INTERLOCK DETAILS
11. CAPTURE JET PLENUMS ARE TO BE ATTACHED WHEN CALLED OUT PER KITCHEN SCHEDULE.


McDONALD'S CORPORATION
OAK BROOK, ILLINOIS 60521

EQUIP. ID. EXHAUST HOOD: UH SERIES
MANUF. ID. HKD SERIAL # 5512341
MANUF. EQUIP. ID. UH500804 MFG DATE 05/03/17

| LENGTH OF HOOD | MAXIMUM EXHAUST AIRFLOW, CFM/IN (CMM/M) OF HOOD LENGTH W/DUCT | MIN MUM EXHAUST AIRFLOW, CFM/IN (CMM/M) OF HOOD LENGTH W/O/EP |
|---|---|---|
| 29" (86) | 13# (11) | 13# (11#) |
| 34.5" (88) | 14# (13.3) | 13" (12.8) |
| 35-122" (89-310) | 18# (16.6) | 15" (14.3) |
| 133.75" (339.7) | 19# (15.3) | 13" (12.3) |

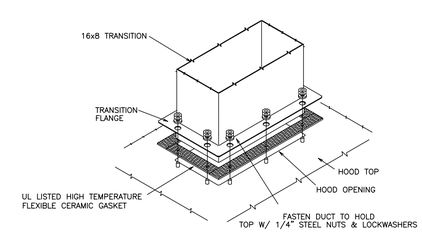
FOR USE OVER COMMERCIAL GAS OR ELECTRIC COOKING EQUIPMENT UP TO 480°F (SS# EXCEPT UPPER PLATEN OF 2 SIDED COOKER MAY BE UP TO 425°F (218°C).
-22" (559.8mm) MINIMUM CLEARANCE FROM COOKING SURFACE TO FRONT LOWER EDGE OF HOOD
-18" (458.4mm) MINIMUM CLEARANCE FROM COOKING SURFACE TO FRONT LOWER EDGE OF HOOD
-2 1/4" (57.15mm) MINIMUM SIDE HOOD OVERHANG FROM EDGE OF COOKING SURFACE
-3" (76.2mm) TO 6" (152.5mm) MAXIMUM FRONT HOOD SETBACK FROM EDGE OF COOKING SURFACE
-THESE HOODS ARE LISTED FOR DIRECT REAR MOUNTING ON A COMBUSTIBLE SURFACE
-HOODS MAY BE INSTALLED WITH DUCTS OR ESP DIRECTLY ON TOP OF HOOD ASSEMBLY
-WHEN A GRILL IS OPERATED UNDER THE HOOD, AN EXTENSION SIDE PANEL SHALL BE USED ON THE GRILL SIDE OF THE HOOD
-SNUGHEIN BUDDY-F H202-S ADJACENT TO THE GRILL(S)
-FILTERS SHALL ONLY BE REPLACED WITH FILTERS TESTED TO UL 1046 S*XNDARDS
-FOR USE w/GARLAND MODEL MEVRE GRILL OR FOR USE w/TAYLOR MODEL C602 GRILL -ONLY THE REMOVABLE SIDESKIRTS WILL BE INDIVIDUALLY MARKED AS FOLLOWS: UH SIDESKIRT-GARLAND
-THESE HOODS ARE LISTED FOR COMPLIANCE WITH IC801, IBC&A, AND IBC30 PER NSH-320
-THESE HOODS MUST BE INSTALLED PER NFPA 96

Intertek
4001095

EXHAUST HOOD WITHOUT EXHAUST DAMPERS (COA #5539)

## DETAIL 1/M2.0

UL LABEL
SCALE: NONE




## DETAIL 2/M2.0

HOOD CONNECTION
SCALE: NONE

PROJECT No. 60734777 Task: 032-0312

PREPARED BY:
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PREPARED FOR:
McDonald's USA, LLC

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| REV | DATE | DESCRIPTION |
|---|---|---|
| | | |

DATE:

TITLE
2024 STANDARD BUILDING - BB20
4584-WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & CI
WOOD TRUSS ROOF FRAMING
BRICK / ALPOLIC PANEL

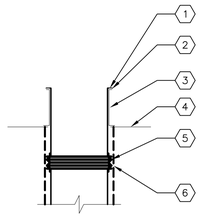
NSN: 10721
LC: 032-0312

SITE ADDRESS
102 W CORNELIUS HARNETT BLVD
LILLINGTON, NC

| DRAWN BY | STD ISSUE DATE |
|---|---|
| DT | 2023 11 |

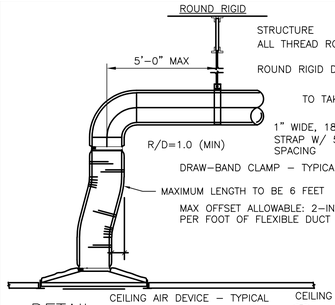
| REVIEWED BY | DATE ISSUED |
|---|---|
| QA | 9/6/2024 |

SHEET NO.
032-0312.00.0
M2.0
EXHAUST HOODS

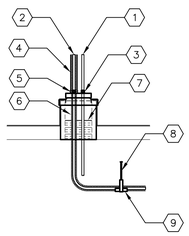



KEYED NOTES:
1. SHEET METAL DUCT DROP (SUPPLY, RETURN OR EXHAUST)
2. FOAM GASKET BETWEEN DUCT AND CURB
3. ROOF CURB
4. ROOF LINE
5. 6" FACE–TO–FACE CANVAS FLEXIBLE CONNECTION
6. 2" EXTERIOR INSULATION (SUPPLY AND RETURN)

## DETAIL 1/M3.0
DUCT DROP INSTALLATION
SCALE: NONE

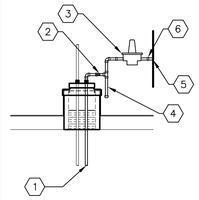



## DETAIL 2/M3.0
DIFFUSER/GRILLE CONNECTION
SCALE: NONE



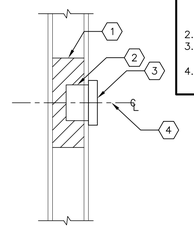

KEYED NOTES:
1. REFRIGERANT LIQUID LINE
2. REFRIGERANT SUCTION LINE WITH 1" THICK EXTERNAL FOAM INSULATION (ARMAFLEX BY ARMACELL OR EQUAL)
3. STAINLESS STEEL CLAMP
4. APPLY WEATHERPROOFING OVER FOAM INSULATION (ALUMAGUARD BY POLYGUARD OR EQUAL)
5. WRAP FOAM INSULATION OVER PIPE PORTAL NIPPLE AND STAINLESS STEEL CLAMP
6. RESTART FOAM INSULATION IMMEDIATELY AFTER PIPE PORTAL PENETRATION
7. INSULATE BOTTOM OF ROOF PORTAL CURB (MIN. R–19)
8. PIPE HANGER
9. LIGHT GAUGE GALVANIZED STEEL PROTECTIVE SHIELD

## DETAIL 3/M3.0
REFRIGERANT PIPE INSTALLATION
SCALE: NONE



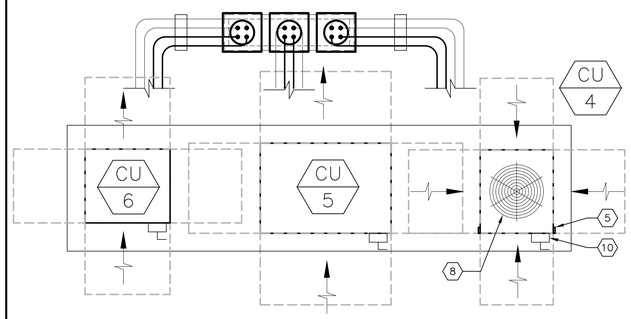

KEYED NOTES:
1. GAS PIPING
2. SHUT–OFF VALVE
3. PRESSURE REGULATOR (PROPERLY SIZED FOR APPLICATION)
4. DIRT LEG
5. ROOFTOP UNIT ENTRY
6. UNION

## DETAIL 4/M3.0
GAS PIPE INSTALLATION
SCALE: NONE




KEYED NOTES:
1. PROVIDE BATT INSULATION FOR TEMPERATURE SENSORS INSTALLED IN HOLLOW CAVITY WALLS
2. 2x4 ELECTRICAL BOX
3. SENSOR (TEMPERATURE, HUMIDITY OR CO2)
4. MOUNT SENSOR(S) BETWEEN 4'–0" TO 4'–6" A.F.F.

## DETAIL 5/M3.0
REMOTE SENSOR INSTALLATION
SCALE: NONE

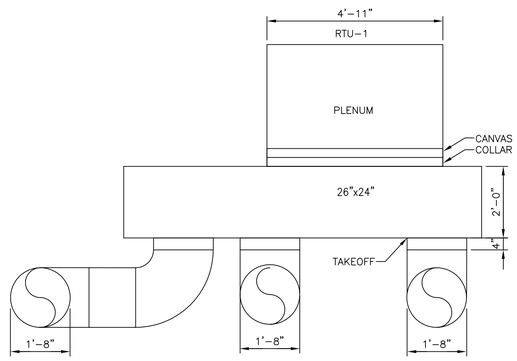



KEYED NOTES:
1. 180"Lx43"Wx14"H EQUIPMENT PLATFORM MANUFACTURED BY RPS OR EQUAL
2. 28⅝"Lx24¾"Wx19¾"H CONDENSING UNIT (COOLER).
3. 43⅛"Lx30½"Wx29¼"H CONDENSING UNIT (FREEZER).
4. 29"Lx24½"Wx34"H CONDENSING UNIT (MULTIPLEX).
5. FASTEN CONDENSING UNIT TO TOP OF PLATFORM AND SEAL FASTENER PENETRATIONS WITH UV RESISTANT SEALANT
6. OUTLINE OF SERVICE CLEARANCE EXTENDING 3'–0" FROM CONDENSING UNIT ON ALL SIDES
7. CONDENSER AIR INTAKE
8. CONDENSER FAN OUTLET ON TOP OF UNIT
9. CONDENSER FAN OUTLET ON SIDE OF UNIT
10. DISCONNECT SWITCH FURNISHED WITH UNIT
11. PROVIDE PIPE SUPPORT AS REQUIRED (TREATED LUMBER IS NOT ACCEPTABLE)
12. MULTIPLE PIPE PORTAL MANUFACTURED BY RPS OR EQUAL

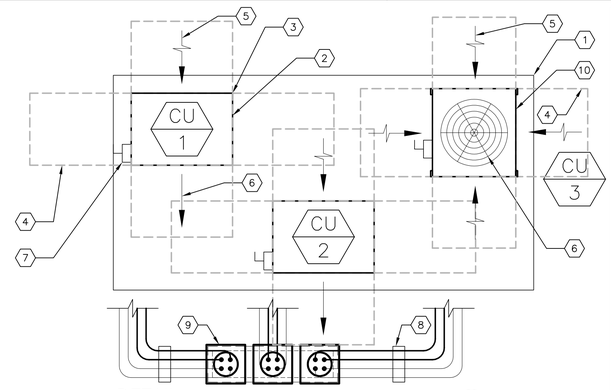
CONDUIT SIZES: (PER CONDENSING UNIT)
(1) ¾" POWER
(1) ¾" CONTROL

REFRIGERANT PIPING SIZES:
SEE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR RECOMMENDED REFRIGERANT PIPE SIZING

## DETAIL 6/M3.0
REMOTE CONDENSER UNITS (CU–4, CU–5 & CU–6)
SCALE: ½"=1'–0"




## DETAIL 7/M3.0
VIEW TOWARDS REAR OF KITCHEN AT DUCT DROPS
SCALE: ½"=1'–0"

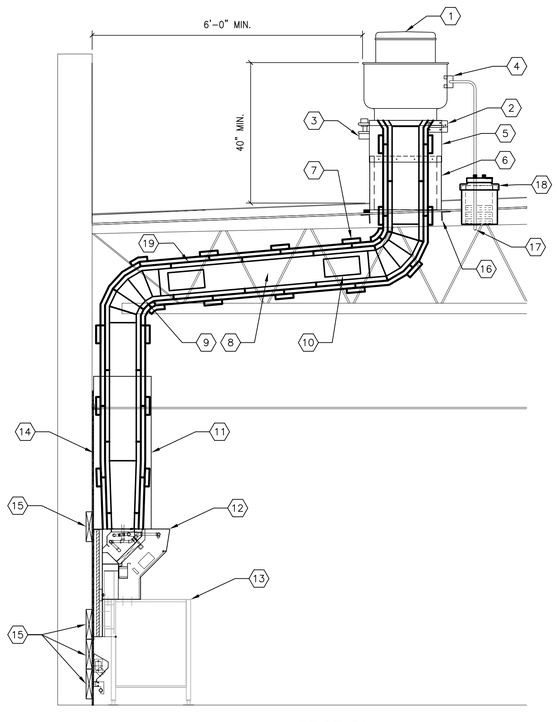



KEYED NOTES:
1. 141"x72"x14"H EQUIPMENT PLATFORM MANUFACTURED BY RPS OR EQUAL
2. 34"x24⅝"x25¾"H CONDENSING UNIT
3. FASTEN CONDENSING UNIT TO TOP OF PLATFORM AND SEAL FASTENER PENETRATIONS WITH UV RESISTANT SEALANT
4. OUTLINE OF SERVICE CLEARANCE EXTENDING FROM CONDENSING UNIT ON ALL SIDES
5. CONDENSER AIR INTAKE
6. CONDENSER FAN OUTLET
7. DISCONNECT SWITCH PROVIDED BY ELECTRICAL CONTRACTOR
8. PROVIDE PIPE SUPPORT AS NECESSARY (TREATED LUMBER IS NOT ACCEPTABLE)
9. MULTIPLE PIPE PORTAL MANUFACTURED BY RPS OR EQUAL
10. 29½"x28"x38"H CONDENSING UNIT

CONDUIT SIZES: (PER CONDENSING UNIT)
(1) ¾" POWER
(1) ¾" CONTROL

REFRIGERANT PIPING SIZES:
(PER CONDENSING UNIT)
ICE MACHINE – ½" LIQUID, ¾" SUCTION
(CU–3 CONDENSING UNIT)
ICE MACHINE – ⅜" LIQUID, ½" SUCTION

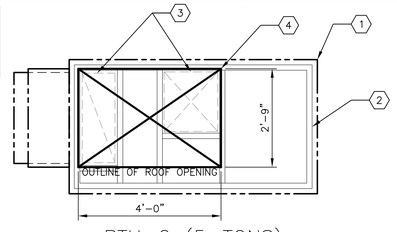
## DETAIL 8/M3.0
REMOTE CONDENSER UNIT (CU–1, CU–2 & CU–3)
SCALE: ½"=1'–0"



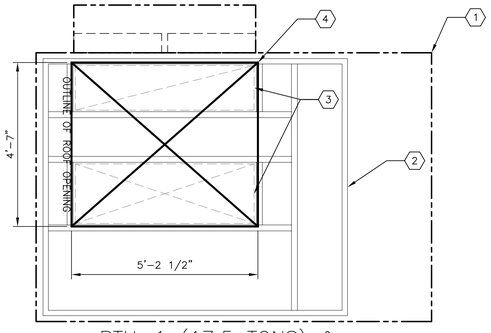

KEYED NOTES:
1. UPBLAST EXHAUST FAN (SEE EXHAUST FAN SCHEDULE)
2. HINGED CURB CAP FOR CLEANING ACCESS (FURNISHED WITH FAN)
3. GREASE TRAP (FURNISHED WITH FAN)
4. NEMA 3R DISCONNECT SWITCH (FURNISHED WITH FAN)
5. 12" HIGH CURB EXTENSION (FURNISHED WITH FAN)
6. 18" HIGH CURB (FURNISHED WITH FAN)
7. TWO (2) LAYERS OF 1½" THICK DUCT WRAP TO MEET ASTM E2336 INSTALLED PER MANUFACTURER'S INSTRUCTIONS (SEE MECHANICAL NOTES FOR INSULATION SPECIFICATION)
8. 16 GAUGE BLACK IRON (CARBON STEEL) OR 18 GAUGE STAINLESS STEEL DUCTWORK WELDED LIQUID–TIGHT
9. 5–GORE BLACK IRON (CARBON STEEL) RADIUS ELBOW
10. 12"x6" ACCESS DOOR AT ALL CHANGES IN DIRECTION
11. STAINLESS STEEL FASCIA PANEL TO PROTECT DUCTWORK AND INSULATION
12. BACKSHELF TYPE EXHAUST HOOD (SEE KITCHEN EXHAUST HOOD SCHEDULE)
13. COOKING APPLIANCE (SEE KITCHEN DRAWINGS)
14. REAR WALL CONSTRUCTION SHALL CONSIST OF CERAMIC TILE OR MIN. 22 GAUGE STAINLESS STEEL OVER ⅝" TYPE X GYPSUM BOARD OR ½" CEMENT BOARD FROM FLOOR TO CEILING AND EXTENDING 24" TO EACH SIDE OF THE HOOD INSTALLED ON NON–COMBUSTIBLE WALL (REFER TO SHEET A1.0 FOR MORE INFORMATION.
15. 2x10 LIGHT GAUGE STEEL FOR SUPPORT BLOCKING FOR HOOD AND RACEWAY (COORDINATE INSTALLATION WITH HOOD INSTALLER)
16. STRUCTURAL FRAMING FOR ROOF OPENING (SEE STRUCTURAL DRAWINGS)
17. TRANSITION TO FLEXIBLE CONDUIT UNDER ROOF PENETRATION WHERE ALLOWED BY CODE.
18. ROOF PIPE PORTAL, RPS–N18(1) RC–2A 12x12x11H.
19. ¼" PER FOOT SLOPE PITCHED BACK TOWARDS THE HOOD.

## SECTION 9/M3.0
KITCHEN EXHAUST HOOD INSTALLATION
SCALE: ½"=1'–0"

KEYED NOTES:
1. OUTLINE OF ROOFTOP UNIT
2. ROOF CURB
3. SUPPLY AND RETURN AIR DUCT DROPS
4. ROOF OPENING

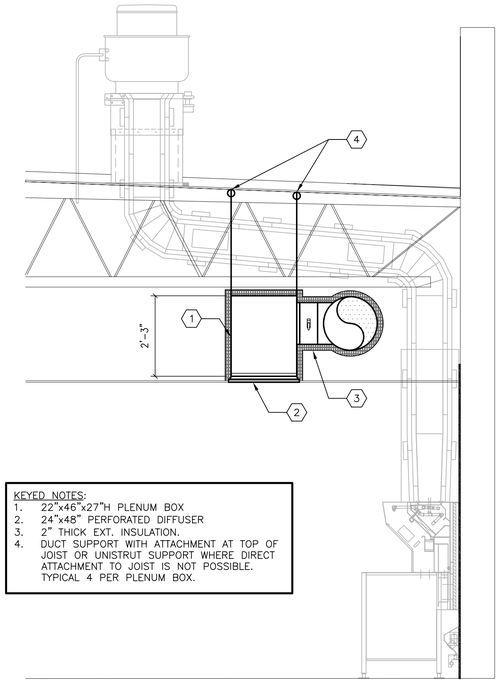



RTU–2 (5–TONS)




RTU–1 (17.5 TONS) &
RTU–3 (12.5–TONS)

## DETAIL 10/M3.0
ROOF OPENINGS
SCALE: ½"=1'–0"




KEYED NOTES:
1. 22"x46"x27"H PLENUM BOX
2. 24"x48" PERFORATED DIFFUSER
3. 2" THICK EXT. INSULATION.
4. DUCT SUPPORT WITH ATTACHMENT AT TOP OF JOIST OR UNISTRUT SUPPORT WHERE DIRECT ATTACHMENT TO JOIST IS NOT POSSIBLE. TYPICAL 4 PER PLENUM BOX.

## SECTION 11/M3.0
SUPPLY (S–1) PLENUM INSTALLATION
SCALE: ½"=1'–0"

PROJECT No. 60734777 Task: 032–0312

| NO. | DESCRIPTION | DATE | REV |
|---|---|---|---|
| | | | |

DATE: .....

PREPARED BY:
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PREPARED FOR:
McDonald's USA, LLC

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| DRAWN BY | REVIEWED BY | DATE ISSUED |
|---|---|---|
| DT | GA | 9/6/2024 |
| STD ISSUE DATE 2023 11 | | |

TITLE
2024 STANDARD BUILDING – BB20
4584–WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & CI
WOOD TRUSS ROOF FRAMING
BRICK/ ALPOLIC PANEL

NSN: 10721
L/C: 032–0312

SITE ADDRESS
102 W CORNELIUS HARNETT BLVD
LILLINGTON, NC

SHEET NO.
032–0312.00.0
M3.0
DETAILS

# MECHANICAL NOTES

GENERAL:

1. ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
2. ALL DIMENSIONS, CLEARANCES AND TOLERANCES SHALL BE VERIFIED PRIOR TO INSTALLATION.
3. ALL MATERIALS, FIXTURES AND EQUIPMENT USED SHALL BE IN ACCORDANCE WITH McDONALD'S SPECIFICATIONS. SPECIFICATIONS ARE CONTAINED WITHIN THESE DRAWINGS AND THE McDONALD'S PROJECT MANUAL. ANY CONTRACTOR IN NEED OF A COPY OF THE McDONALD'S PROJECT MANUAL SHALL CONTACT THE McDONALD'S AREA CONSTRUCTION MANAGER. ANY VARIANCE FROM THE McDONALD'S SPECIFICATIONS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER-OF-RECORD.
4. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH ITS LISTING AND/OR THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
5. SEE COORDINATION SCHEDULE FOR ADDITIONAL SCOPE OF WORK.
6. PRIOR TO BUILDING TURNOVER, A COMPLETE START-UP, TEST, ADJUST AND BALANCE SHALL BE PERFORMED ON ALL MECHANICAL SYSTEMS. THIS WORK SHALL BE PERFORMED BY A CERTIFIED TEST AND BALANCE CONTRACTOR. A CERTIFIED TEST AND BALANCE CONTRACTOR CAN BE FOUND BY VISITING:
   HTTP://WWW.AABCHQ.COM/DIRECTORY
   HTTP://WWW.NEBB.ORG/DIRECTORY.HTM
   HTTP://WWW.TABBCERTIFIED.ORG/SITE/CONTENT/CONTRACTORS/SEARCH
7. UPON COMPLETION OF THE PUNCHLIST, THE MECHANICAL CONTRACTOR AND TEST AND BALANCE CONTRACTOR SHALL SUBMIT REDLINED OR AS-BUILT DRAWINGS ALONG WITH THE TEST AND BALANCE REPORT AND ALL EQUIPMENT OPERATION AND MAINTENANCE MANUALS TO THE McDONALD'S AREA CONSTRUCTION MANAGER. A MINIMUM OF TWO (2) COPIES SHALL BE PROVIDED, ONE (1) FOR REGIONAL RECORDS AND ONE (1) FOR THE RESTAURANT.
8. ALL PENETRATIONS OF FIRE-RATED WALLS SHALL BE FIRESTOPPED WITH AN APPROVED AND LISTED FIRESTOPPING SYSTEM.

VENTILATION SYSTEMS:

1. ALL SHEET METAL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH LOCAL CODES AND SMACNA STANDARDS.
2. ALL DUCTWORK DIMENSIONS ARE INTERNAL FREE AREA DIMENSIONS AND SIZED FOR 0.08" W.C. PER 100 FT. OF DUCT.
3. ALL SHEET METAL DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH SMACNA TABLES FOR 2" W.C. AND SHALL BE SUPPORTED WITH AN APPROVED HANGER AT INTERVALS NOT EXCEEDING 10 FT.
4. ALL DUCT DROPS INTO THE BUILDING SHALL BE INSTALLED WITH FLEXIBLE CONNECTIONS TO ISOLATE THE DUCTWORK SYSTEM FROM NOISE AND VIBRATION. FLEXIBLE CONNECTIONS SHALL BE TESTED IN ACCORDANCE WITH UL 181 AND LISTED AS CLASS 0 OR CLASS 1.
5. ALL DUCT DROPS INTO THE BUILDING SHALL BE OFFSET AS NECESSARY TO ALLOW FOR THE CLEAR INSTALLATION OF THE EXTERNAL DUCTWORK INSULATION.
6. ALL DUCTWORK BRANCHES THAT SERVE A SINGLE DIFFUSER SHALL BE SUPPLIED WITH A VOLUME DAMPER FOR BALANCING. BRANCHES THAT SERVE MULTIPLE DIFFUSERS, THE BALANCING IS HANDLED VIA REMOTE DAMPER INSTALLED NEAR THE DIFFUSER. REFER TO M1.2 FOR DAMPER LOCATIONS. VOLUME DAMPER SHALL HAVE A 2" OFFSET TO ACCOMMODATE EXTERNAL INSULATION.
7. TAKE-OFFS FROM RECTANGULAR TO ROUND DUCT SHALL BE DUCTMATE STRAIGHT-SIDED OR CENTER HIGH-EFFICIENCY TAKE-OFFS WITH A 2" DAMPER STAND-OFF TO ACCOMMODATE FOR EXTERNAL INSULATION.
8. ALL DUCTWORK JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS SHALL BE SEALED WITH WELDS, GASKETS, MASTICS (ADHESIVES), TAPES, ETC. ALL SEALANT MATERIALS SHALL BE LISTED IN ACCORDANCE WITH UL 181A OR 181B.
9. ALL SUPPLY AND RETURN SHEET METAL DUCTWORK LOCATED WITHIN THE CEILING SPACE SHALL BE EXTERNALLY INSULATED. INSULATION SHALL BE 2" THICK MICROLITE FSK-100 BY JOHNS MANVILLE OR EQUAL.
10. ALL SUPPLY AND RETURN SHEET METAL DUCTWORK LOCATED OUTSIDE OF THE BUILDING SHALL BE INTERNALLY LINED WITH A 1" THICK FIBERGLASS (MIN. R-4.2) AND EXTERNALLY INSULATED WITH A 2" THICK RIGID POLYSTYRENE, POLYURETHANE OR POLYISOCYANURATE BOARD (MIN. R-8 FOR CLIMATE ZONES 1 THROUGH 4), OR A 3" THICK (MIN R-12 FOR CLIMATE ZONES 5 THROUGH 8). INTERNAL FIBERGLASS INSULATION SHALL BE LINATEX BY JOHNS MANVILLE OR EQUAL. EXTERNAL RIGID BOARD INSULATION SHALL BE THERMAPINK BY OWENS CORNING OR EQUAL.
11. FOR APPLICABLE SITUATIONS OR PLAYPLACE ADDITIONS: ALL EXPOSED SPIRAL DUCTWORK SHALL BE INTERNALLY INSULATED TO PREVENT CONDENSATION (MIN. R-4.3). INTERNAL INSULATION SHALL BE 1" THICK SPIRACOUSTIC PLUS BY JOHNS MANVILLE OR EQUAL.
12. ALL DUCTWORK PENETRATIONS THROUGH FIRE-RATED WALLS, BARRIERS OR PARTITIONS SHALL BE PROTECTED WITH A FIRE DAMPER. THE PERIMETER OF THE FIRE DAMPER SHALL BE FIRESTOPPED WITH AN APPROVED AND LISTED FIRESTOPPING MATERIAL.
13. ALL EXTERIOR SHEET METAL DUCTWORK SHALL BE EXTERNALLY WRAPPED WITH AN APPROVED WEATHERPROOFING MATERIAL TO PROTECT AGAINST WATER PENETRATION AND CORROSION. SIDES AND TOP OF EXTERNAL WEATHERPROOFING SHALL BE ALUMAGUARD 60 MIL UV BARRIER BY POLYGUARD OR EQUAL. BOTTOM OF EXTERNAL WEATHERPROOFING SHALL BE VAPORGUARD 5 MIL MEMBRANE BY POLYGUARD OR EQUAL.
14. ALL FLEXIBLE DUCTWORK, METALLIC AND NONMETALLIC, SHALL CONFORM TO THE FOLLOWING:
   A. 2" THICK INSULATION (R-6.0) SEE NOTE#9 AND TABLE(S) BELOW:

| DUCT LOCATION: UNCONDITIONED SPACE | | | CLIMATE ZONES 1 THROUGH 8 |
|---|---|---|---|
| DUCTWORK CLASSIFICATION | PRESSURE | SEAL CLASS | INSULATION |
| SUPPLY | 2.00" W.C. | A | TYPE A (R-6) |
| RETURN | -2.00" W.C. | A | TYPE A (R-6) |
| EXHAUST | -2.00" W.C. | A | (*)TYPE A (R-6) |
| HANGER SUPPORTS | EVERY 6 FT. | | 1" TYPE B |

| DUCT LOCATION: EXTERIOR (INCLUDES ATTICS ABOVE INSULATED CEILINGS AND CRAWL SPACES. | | | CLIMATE ZONES 1 THROUGH 4 | CLIMATE ZONES 5 THROUGH 8 |
|---|---|---|---|---|
| DUCTWORK CLASSIFICATION | PRESSURE | SEAL CLASS | INSULATION | INSULATION |
| SUPPLY | 2.00" W.C. | A | TYPE A (R-8) | TYPE A (R-12) |
| RETURN | -2.00" W.C. | A | TYPE A (R-8) | TYPE A (R-12) |
| EXHAUST | -2.00" W.C. | A | (*)TYPE A (R-8) | (*)TYPE A (R-12) |
| HANGER SUPPORTS | EVERY 6 FT. | | 1" TYPE B | |

   (*) EXHAUST DUCTWORK IS ONLY REQUIRED TO BE INSULATED WITHIN 2-FEET OF ROOF PENETRATION. REFER TO "COMMERCIAL KITCHEN EXHAUST SYSTEMS", NOTE#4 FOR FIRE WRAPPING REQUIREMENTS ON KITCHEN GREASE DUCTWORK.

   B. INTEGRAL VAPOR BARRIER
   C. LISTED AND LABELED UL 181, CLASS 0 OR CLASS 1
   D. INSTALLED IN ACCORDANCE WITH:
      i. SMACNA STANDARDS,
      ii. AIR DIFFUSION COUNCIL INSTALLATION GUIDELINES, AND/OR
      iii. MANUFACTURER'S INSTALLATION INSTRUCTIONS
14. FLEXIBLE DUCTWORK SHALL NOT PENETRATE WALLS. SHEET METAL DUCTWORK IS REQUIRED AT ALL FIRE-RATED AND DRAFTSTOP WALL PENETRATIONS.
15. ALL COVERINGS, LININGS AND ADHESIVES (TAPES, ETC.) SHALL HAVE A FLAME-SPREAD INDEX NOT GREATER THAN 25 AND A SMOKE-DEVELOPED INDEX NOT GREATER THAN 50.
16. DUCT-MOUNTED SMOKE DETECTORS, PROVIDED BY ROOFTOP UNIT MANUFACTURER, SHALL BE INSTALLED IN SYSTEMS WITH DESIGN CAPACITY GREATER THAN 2,000 CFM. SEE MECHANICAL DRAWINGS FOR LOCATIONS OF SMOKE DETECTORS. DUCT-MOUNTED SMOKE DETECTORS ARE NOT REQUIRED WHEN THE BUILDING IS PROTECTED THROUGHOUT BY AREA SMOKE DETECTORS CONNECTED TO A FIRE ALARM SYSTEM WHERE THE FIRE ALARM SYSTEM IS DESIGNED TO SHUT DOWN THE ROOFTOP UNITS.
17. ALL SUPPLY AIR DIFFUSERS SHALL BE INSULATED TO PREVENT CONDENSATION.
18. ALL AIR DEVICES LOCATED IN DRYWALL CEILINGS SHALL BE SUPPLIED WITH AN INTEGRAL VOLUME DAMPER ACCESSIBLE FROM THE AIR DEVICE FACE TO FACILITATE BALANCING.
19. ALL OUTDOOR AIR INTAKES SHALL BE LOCATED A MINIMUM OF 10 FT. HORIZONTALLY FROM ANY SOURCE OF CONTAMINATION SUCH AS EXHAUST FANS, PLUMBING VENTS, WATER HEATER FLUES, ETC. WHERE A CONTAMINANT SOURCE IS LOCATED WITHIN 10 FT. OF AN INTAKE, THE INTAKE OPENING SHALL BE LOCATED A MINIMUM OF 2 FT. BELOW THE CONTAMINANT SOURCE.
20. ALL ROOFTOP CONDENSING UNITS THAT DISCHARGE HORIZONTALLY SHALL BE ORIENTED SUCH THAT THE DISCHARGE DOES NOT BLOW IN THE DIRECTION OF AN OUTDOOR AIR INTAKE.

COMMERCIAL KITCHEN EXHAUST SYSTEMS:

1. ALL METAL DUCTWORK USED FOR THE CONVEYANCE OF GREASE-LADEN AIR SHALL BE CONSTRUCTED OF MINIMUM 18 GAUGE STAINLESS STEEL OR 16 GAUGE CARBON STEEL (BLACK IRON).
2. ALL GREASE EXHAUST DUCTWORK JOINTS SHALL BE EITHER TELESCOPING OR BELL TYPE. BUTT-WELDED JOINTS ARE PROHIBITED.
3. ALL GREASE EXHAUST DUCTWORK SEAMS AND JOINTS SHALL BE CONTINUOUSLY WELDED WATER-TIGHT ON THE EXTERNAL SURFACE OF THE DUCT SYSTEM. ALL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER.
4. ALL GREASE EXHAUST DUCTWORK SHALL BE EXTERNALLY INSULATED WITH A ASTM E2336 LISTED AND LABELED GREASE DUCT ENCLOSURE SYSTEM. INSULATION SHALL BE INSTALLED IN ACCORDANCE WITH ITS LISTING AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
5. ACCESS PANELS SHALL BE PROVIDED AT ALL CHANGES IN DIRECTION OF THE GREASE EXHAUST DUCTWORK SYSTEM. ACCESS PANELS SHALL BE INSTALLED IN ACCORDANCE WITH THE INSULATION MANUFACTURER'S INSTALLATION INSTRUCTIONS AND SHALL BE LABELED AS FOLLOWS: "ACCESS PANEL - DO NOT OBSTRUCT".
6. ALL HORIZONTAL GREASE EXHAUST DUCTWORK SHALL BE INSTALLED WITH A MINIMUM ¼" PER FOOT SLOPE AND SHALL BE PITCHED BACK TOWARD THE HOOD.
7. UPBLAST KITCHEN EXHAUST FANS SHALL BE LOCATED A MINIMUM OF 6 FT. FROM ANY PARAPET WALL OR ADJACENT STRUCTURE AND SHALL TERMINATE A MINIMUM OF 40 INCHES ABOVE THE FINISHED ROOFING MATERIAL.

REFRIGERANT PIPING:

1. ALL REFRIGERATION WORK SHALL BE PERFORMED BY A CERTIFIED REFRIGERATION CONTRACTOR.
2. ALL REFRIGERANT PIPING SHALL BE SEAMLESS COPPER TUBING OF TYPE L IN ACCORDANCE WITH ASTM B 88 AND ALL JOINTS SHALL BE SOLDERED.
3. ALL REFRIGERANT SUCTION LINES SHALL BE INSULATED WITH A MINIMUM 1" FOAM PIPE INSULATION. PIPE INSULATION INSTALLED OUTDOORS SHALL BE PROTECTED WITH AN APPROVED WEATHERPROOFING MATERIAL.
4. ALL SUSPENDED REFRIGERANT PIPING SHALL BE SUPPORTED AS FOLLOWS:

| MATERIAL | MAX. HORIZ. SPACING | MAX. VERT. SPACING |
|---|---|---|
| COPPER TUBING ≤1⅛" | 6 FT. | 10 FT. |
| COPPER TUBING ≥1⅜" | 10 FT. | 10 FT. |

5. ALL REFRIGERANT PIPING SHALL BE SIZED PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
6. PRE-CHARGED LINESETS ARE NOT PERMITTED AS LINES WILL MOST LIKELY NEED TO BE CUT TO FIT THE APPLICATION AND REFRIGERANT WILL NEED TO BE RECLAIMED.
7. ALL PIPE INSULATION SHALL BE PROTECTED FROM DAMAGE FROM PIPE HANGERS. PROTECTION SHALL BE LIGHT GAUGE GALVANIZED STEEL OR EQUAL.
8. ALL REFRIGERANT PIPING SYSTEMS SHALL BE PRESSURE TESTED FOR LEAKS PRIOR TO START-UP. ALL LEAKS SHALL BE REMEDIED PRIOR TO BUILDING TURNOVER.
9. ALL PIPING SHALL MEET MINIMUM INSULATION THICKNESS PER THE TABLE BELOW:

| PIPING | MINIMUM INSULATION THICKNESS (IN INCHES) PER NOMINAL PIPE OR TUBE SIZE | | | | |
|---|---|---|---|---|---|
| NOMINAL PIPE SIZE | <1 | 1 TO 1.5 | 1.5 TO <4 | 4 TO <8 | ≥8 |
| LIQUID (REFRIGERATION) (<40°F) | 0.5 | 1.0 | 1.0 | 1.0 | 1.5 |
| SUCTION (REFRIGERATION) (<40°F) | 0.5 | 1.0 | 1.0 | 1.0 | 1.5 |

CO2 DETECTION EQUIPMENT:

1. THE CO2 DETECTOR SHALL BE HARD-WIRED TO PREVENT TAMPERING AND SHALL BE INSTALLED AT 12" A.F.F. WITHIN A 5 FT. RADIUS OF THE CO2 STORAGE TANKS.
2. ONE (1) AUDIBLE AND ONE (1) VISUAL ALARM SHALL BE INSTALLED A MINIMUM OF 7 FT. A.F.F., IN PLAIN SIGHT IN THE SAME ROOM AS THE CO2 STORAGE TANKS.
3. ONE (1) AUDIBLE AND ONE (1) VISUAL ALARM SHALL BE INSTALLED A MINIMUM OF 7 FT. A.F.F., AT THE BACK OF THE KITCHEN AND IN PLAIN SIGHT FROM THE MAIN SIDE OF THE PREP LINE.
4. THE CO2 EXTERIOR STROBE SHALL BE INSTALLED AS SHOWN ON SHEET A2.0, (DETAIL 2) AND ON SHEET E1.1. THE INSIDE AUDIBLE AND VISUAL ALARM SHALL BE INSTALLED INSIDE THE CO2 CLOSET, AND IN THE SUPPORT/BACK-OF-THE HOUSE LOCATION AS SHOWN ON SHEETS E1.1 AND E3.0.

NATURAL GAS SYSTEMS:

1. ALL GAS PIPING, WATER HEATER VENTS, INTAKES AND FLUES SHALL CONFORM TO THE CURRENT VERSION OF NFPA 54, NATIONAL FUEL GAS CODE, AND ANY LOCAL CODE REQUIREMENTS.
2. THE NATURAL GAS MAIN PIPE SIZING IS BASED ON THE FOLLOWING:
   A. MINIMUM SUPPLY PRESSURE AT THE METER OF 2 PSIG
   B. 1 PSIG PRESSURE DROP FROM METER TO FARTHEST APPLIANCE
   C. 1,000 BTU PER CU. FT. OF NATURAL GAS
3. GAS PIPING RUN-OUTS TO EQUIPMENT ARE SIZED BASED ON THE FOLLOWING:
   A. SUPPLY PRESSURE AT THE REGULATOR OF 10" W.C. (¼ PSIG)
   B. 0.5" W.C. PRESSURE DROP FROM REGULATOR TO FARTHEST APPLIANCE
   C. 1,000 BTU PER CU. FT. OF NATURAL GAS
4. ALL NATURAL GAS PIPE SHALL BE SCHEDULE 40 CARBON STEEL PIPE WITH MALLEABLE IRON FITTINGS AND SHALL BE COMPLY TO ONE OF THE FOLLOWING STANDARDS: ASME B36.10, 10M; ASTM A 53; OR ASTM A 106.
5. NATURAL GAS PRESSURE REGULATORS SHALL BE MAXITROL 325 SERIES OR EQUAL.

6. ALL SUSPENDED STEEL PIPING SHALL BE SUPPORTED AS FOLLOWS:

| SIZE | MAX. HORIZ. SPACING | MAX. VERT. SPACING |
|---|---|---|
| ½" | 6 FT. | 6 FT. |
| ¾" TO 1" | 8 FT. | 8 FT. |
| ≥1¼" | 10 FT. | 10 FT. |

7. GAS PIPING SHALL NOT PENETRATE ANY FIRE-RATED CHASE OR SHAFT, DUCTWORK OR PLENUM.
8. ALL NATURAL GAS PIPING INSTALLED OUTDOORS SHALL BE COATED WITH A CORROSION RESISTANT PAINT. PAINT COLOR SHALL BE ORANGE OR YELLOW.
9. ALL INTAKE AND VENT PIPING FOR SEALED-COMBUSTION WATER HEATERS SHALL BE PVC OR ABS, SHALL BE SIZED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND SHALL BE INSTALLED BY THE PLUMBING CONTRACTOR.
10. ALL WATER HEATER VENTS SHALL BE LOCATED A MINIMUM OF 10 FT. HORIZONTALLY FROM ANY OUTDOOR AIR INTAKE. WHERE A WATER HEATER VENT IS LOCATED WITHIN 10 FT. OF AN INTAKE, THE FLUE OR VENT SHALL TERMINATE A MINIMUM OF 2 FT. ABOVE THE INTAKE.
11. UPON COMPLETION OF INSTALLATION, THE GAS PIPING SYSTEM SHALL BE PURGED OF DELETERIOUS MATERIAL AND SHALL BE PRESSURE TESTED. PRESSURE TESTING SHALL BE PERFORMED WITH THE EQUIPMENT SHUT-OFF VALVES IN THE CLOSED POSITION TO PROTECT EQUIPMENT FROM DAMAGE DUE TO EXCESSIVE PRESSURE.
12. AFTER THE PRESSURE TEST HAS BEEN COMPLETED AND ANY LEAKS REMEDIED, THE INSTALLING CONTRACTOR SHALL MEASURE AND VERIFY THE FOLLOWING GAS PRESSURES WHILE EQUIPMENT IS IN OPERATION:
   A. GRILL - 6" W.C. NATURAL, 14" W.C. L.P.
   B. FRYER - 6" W.C. NATURAL, 14" W.C. L.P.
   C. WATER HEATER - 6" W.C. NATURAL, 14" W.C. L.P.
   D. HVAC UNIT - 7" W.C. NATURAL, 14" W.C. L.P.
13. IF THE MINIMUM PRESSURES ARE NOT MET, THIS SHALL BE IMMEDIATELY REPORTED TO THE MCDONALD'S AREA CONSTRUCTION MANAGER.

CONDENSATE PIPING:

1. CONDENSATE PIPING SHALL BE GALVANIZED STEEL, COPPER OR PVC.
2. PVC PIPE SHALL BE PAINTED WITH WATER BASED LATEX PAINTING TO RESIST DEGRADATION FROM ULTRAVIOLET EXPOSURE.
3. PIPE SUPPORTS SHALL BE RPS MODEL PMP-2 OR EQUAL. QUANTITY AS REQUIRED DEPENDANT UPON PIPING MATERIAL.
4. PIPING SHALL BE SUPPORTED AS FOLLOWS:

| MATERIAL | MAX. HORIZ. SPACING | MAX. VERT. SPACING |
|---|---|---|
| COPPER PIPE | 12 FT. | 10 FT. |
| GALVANIZED STEEL | 12 FT. | 15 FT. |
| PVC | 4 FT. | 15 FT. |

5. CONDENSATE PIPING SHALL SLOPE A MINIMUM OF ⅛" PER FOOT.
6. CONDENSATE PIPING SHALL BE SIZED BASED ON THE FOLLOWING:

| TOTAL TONS SERVED BY PIPE | MINIMUM PIPE SIZE |
|---|---|
| <20 TONS | ¾" |
| >20 TONS, <40 TONS | 1" |
| >40 TONS, <125 TONS | 1½" |

## MECHANICAL SYSTEMS COMMISSIONING:

COMMISSIONING MUST BE PROVIDED AS PER LOCAL ENERGY CODE (2015 IECC).

# LEGEND

| | |
|---|---|
| TS | TEMPERATURE SENSOR |
| ATS | AVERAGING TEMPERATURE SENSOR |
| CO2 | CO2 SENSOR FOR ROOFTOP UNIT DEMAND CONTROL VENTILATION |
| HS | HUMIDITY SENSOR |
| T | THERMOSTAT |
| S | SMOKE DETECTOR |
| KH 2 | EQUIPMENT TAG |
| R-1 / 1750 CFM / 18"ø | DIFFUSER INFORMATION<br>LINE 1: TAG<br>LINE 2: AIRFLOW<br>LINE 3: NECK SIZE |
| | SUPPLY AIR DUCT (VERTICAL) |
| | RETURN OR EXHAUST AIR DUCT (VERTICAL) |
| | ROUND DUCT (VERTICAL) |
| SSC | STEADY-STATE SPEED CONTROLLER |
| | PLAQUE DIFFUSER (SHADED AREA DESIGNATES BLANK-OFF PANEL LOCATION) |
| | LINEAR SLOT DIFFUSER |
| | LOUVERED FACE DIFFUSER |
| | CEILING-MOUNTED EXHAUST FAN |
| | SPIN-IN COLLAR WITH VOLUME DAMPER |
| | VOLUME DAMPER |
| | FLEXIBLE DUCTWORK |
| | PERFORATED FACE DIFFUSER |
| | SHEET METAL TEE WITH CAP |
| | GAS SHUT OFF VALVE |
| | GAS PRESSURE REGULATING VALVE |

# ABBREVIATIONS

| | |
|---|---|
| ACM | AREA CONSTRUCTION MANAGER |
| B.J. | BELOW JOISTS |
| E.A. | EXHAUST AIR |
| EC | ELECTRICAL CONTRACTOR |
| FAC | FIRE ALARM CONTRACTOR |
| FPC | FIRE PROTECTION CONTRACTOR |
| GC | GENERAL CONTRACTOR |
| I.D. | INSIDE DIMENSION |
| KEI | KITCHEN EQUIPMENT INSTALLER |
| KES | KITCHEN EQUIPMENT SUPPLIER |
| MC | MECHANICAL CONTRACTOR |
| O.A. | OUTDOOR AIR |
| O.D. | OUTSIDE DIMENSION |
| O/O | OWNER/OPERATOR |
| PC | PLUMBING CONTRACTOR |
| R.A. | RETURN AIR |
| RC | REFRIGERATION CONTRACTOR |
| S.A. | SUPPLY AIR |
| S.P. | STATIC PRESSURE |
| TAB | TEST AND BALANACE CONTRACTOR |

| REV | DATE | DESCRIPTION |
|---|---|---|
| | | |

DATE: .....

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|---|---|
| DRAWN BY | DT |
| STD ISSUE DATE | 2023 11 |
| REVIEWED BY | GA |
| DATE ISSUED | 9/6/2024 |

TITLE: 2024 STANDARD BUILDING - BB20
4584-WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & CI
WOOD TRUSS ROOF FRAMING
BRICK/ ALPOLIC PANEL

NSN: 10721-032-0312

SITE ADDRESS
102 W CORNELIUS HARNETT BLVD
LILLINGTON, NC

SHEET NO.
032-0312.00.0
M4.0
GENERAL NOTES

# COORDINATION SCHEDULE

| GENERAL REQUIREMENTS | FURNISH | INSTALL | FINAL CONNECTION | NOTES |
|---|---|---|---|---|
| MECHANICAL PERMIT | MC | | | 1–3 |
| HOT WORK (WELDING) PERMIT (IF APPLICABLE) | KES | | | 1–3 |
| REFRIGERATION PERMIT (IF APPLICABLE) | MC | | | 1–3 |
| PLUMBING PERMIT | PC | | | 1–3 |
| ELECTRICAL PERMIT | EC | | | 1–3 |
| FIRE SPRINKLER PERMIT (IF APPLICABLE) | FPC | | | 1–3 |
| FIRE ALARM PERMIT (IF APPLICABLE) | FAC | | | 1–3 |
| **CONTRACTOR COORDINATION REQUIREMENTS** | | | | |
| HEATING & AIR–CONDITIONING | | | | |
| ROOFTOP UNITS, INTAKE AND RELIEF | MCD CP | MC | | 1–5, 17, 22 |
| ROOF CURBS | MCD CP | MC | | 1–3, 20, 22 |
| GAS PIPING AND GAS PIPE KIT | PC | PC | PC | 1–3, 14, 22–23 |
| CONTROLS WIRING | MC | EC | EC | 1–3, 19, 22, 24 |
| POWER WIRING | EC | EC | EC | 1–3, 19, 22, 24 |
| CONDENSATE TRAP | MC | PC | | 1–3, 22–23 |
| CONDENSATE PIPING (IF APPLICABLE) | PC | PC | | 1–3, 22–23 |
| DUCT–MOUNTED SMOKE DETECTOR | MC | MC | EC | 1–3, 22, 24 |
| GENERAL EXHAUST SYSTEMS | | | | |
| EXHAUST FANS | MCD CP | MC | | 1–3, 17, 22 |
| ROOF CURBS | MCD CP | MC | | 1–3, 22 |
| CONTROLS (WHERE APPLICABLE) | MC | EC | EC | 1–3, 22, 24 |
| POWER WIRING | EC | EC | EC | 1–3, 22, 24 |
| TEMPERATURE CONTROLS | | | | |
| BUILDING AUTOMATION SYSTEM | MCD CP | MC | EC | 1–3, 22, 24 |
| REMOTE SENSORS (RH AND/OR TEMPERATURE) | MC | MC | EC | 1–3, 22, 24 |
| CONTROLS WIRING (WHERE APPLICABLE) | MC | EC | EC | 1–3, 22, 24 |
| POWER WIRING | EC | EC | EC | 1–3, 22, 24 |
| DUCTWORK AND ACCESSORIES | | | | |
| GALVANIZED SHEET METAL DUCTWORK | MC | MC | | 1–3, 22 |
| EXTERNAL INSULATION | MC | MC | | 1–3, 22 |
| INTERNAL INSULATION (IF APPLICABLE) | MC | MC | | 1–3, 22 |
| WEATHERPROOFING (IF APPLICABLE) | MC | MC | | 1–3, 22 |
| SPIN–IN COLLARS | MC | MC | | 1–3, 22 |
| FLEXIBLE DUCTWORK | MC | MC | | 1–3, 22 |
| VOLUME/BALANCING DAMPERS | MC | MC | | 1–3, 22 |
| FIRE DAMPERS (IF APPLICABLE) | MC | MC | | 1–3, 22 |
| FIRESTOPPING (IF APPLICABLE) | MC | MC | | 1–3, 22 |
| AIR DEVICES AND ACCESSORIES | MC | MC | MC | 1–3, 7, 22, 28 |
| PLUMBING SYSTEMS | | | | |
| WATER HEATERS | MCD CP | PC | PC | 1–3, 11–12, 23 |
| HOT AND COLD WATER PIPE | PC | PC | PC | 1–3, 23 |
| VENTS AND INTAKES | PC | PC | PC | 1–3, 23 |
| THERMOSTATIC MIXING VALVE | PC | PC | PC | 1–3, 23 |
| POWER AND CONTROL WIRING | EC | EC | EC | 1–3, 23–24 |
| KITCHEN EXHAUST SYSTEMS | | | | |
| McDONALD'S BACKSHELF EXHAUST HOODS | KES | KEI | | 1–3, 6, 22, 27 |
| CANOPY EXHAUST HOODS (IF APPLICABLE) | KES | KEI | | 1–3, 6, 22, 27 |
| BLACK IRON DUCTWORK | KES | KEI | | 1–3, 6, 22 |
| STAINLESS STEEL DUCTWORK (IF APPLICABLE) | KES | KEI | | 1–3, 6, 22 |
| ALUMINUM DUCTWORK (IF APPLICABLE) | KES | KEI | | 1–3, 6, 22 |
| UL LISTED DUCT WRAP | MC | MC | | 1–3, 6, 22 |
| FIRE–RATED DUCT ENCLOSURE (IF APPLICABLE) | GC | GC | | 1–3, 6, 20, 22 |
| EXHAUST FANS | MCD CP | MC | | 1–3, 6, 17, 22 |
| ROOF CURBS | MCD CP | MC | | 1–3, 6, 20, 22 |
| CURB EXTENSIONS | MC | MC | | 1–3, 6, 22 |
| CONTROLS (WHERE APPLICABLE) | EC | EC | EC | 1–3, 6, 22, 24 |
| POWER WIRING | EC | EC | EC | 1–3, 6, 22, 24 |
| FIRE SUPPRESSION SYSTEM | KES | KES | KES | 1–3, 16, 22, 27 |
| KITCHEN EQUIPMENT | | | | |
| COOLER/FREEZER | KES | GC | | 1–3, 27 |
| EVAPORATOR COILS | KES | MC | | 1–3, 27 |
| CONDENSATE PIPING | PC | PC | PC | 1–3, 23, 27 |
| REMOTE CONDENSING UNIT (MAC) | KES | MC | | 1–3, 22, 27 |
| ROOF CURBS | MC | MC | | 1–3, 22 |
| REFRIGERANT PIPING | KES | MC | MC | 1–3, 22, 27 |
| POWER WIRING | EC | EC | EC | 1–3, 22, 24, 27 |
| CONTROL WIRING | EC | EC | EC | 1–3, 24, 27 |
| PIPE PORTALS | MC | MC | | 1–3, 22 |
| ICE MACHINES | KES | KEI | | 1–3, 27 |
| WATER SUPPLY PIPING | KES | KEI | BSI | 1–3, 27 |
| REMOTE CONDENSING UNITS | KES | MC | | 1–3, 22, 27 |
| ROOF CURBS | MC | MC | | 1–3, 22, 27 |
| REFRIGERANT PIPING | KES | MC | MC | 1–3, 22, 27 |
| POWER WIRING | EC | EC | EC | 1–3, 22, 24, 27 |
| CONTROL WIRING | KES | EC | EC | 1–3, 24, 27 |
| PIPE PORTALS | MC | MC | | 1–3, 22 |
| GRILLS | KES | KES | | 1–3, 27 |
| GAS PIPING (IF APPLICABLE) | PC | PC | PC | 1–3, 23, 27 |
| POWER WIRING | EC | EC | EC | 1–3, 24, 27 |
| CONTROL CABLE (6" CLAMSHELL ONLY) | MC | EC | EC | 1–3, 23, 24, 27 |
| FRYERS | KES | KES | | 1–3, 27 |
| GAS PIPING (IF APPLICABLE) | PC | PC | PC | 1–3, 23, 27 |
| POWER WIRING | EC | EC | EC | 1–3, 24, 27 |
| 3–COMPARTMENT SINK | KES | KES | | 1–3, 12, 27 |
| FAUCETS AND PRE–RINSE SPRAYER | KES | KES | | 1–3, 27 |
| WATER SUPPLY PIPING | PC | PC | PC | 1–3, 23, 27 |
| SANITARY DRAIN PIPING | PC | PC | PC | 1–3, 23, 27 |
| HAND SINKS | MCD CP | PC | | 1–3, 23, 27 |
| FAUCET | MCD CP | PC | | 1–3, 23, 27 |
| WATER SUPPLY PIPING | PC | PC | PC | 1–3, 23, 27 |
| SANITARY DRAIN PIPING | PC | PC | PC | 1–3, 23, 27 |
| VEGETABLE SINK | KES | KES | | 1–3, 23, 27 |
| FAUCET | KES | KES | | 1–3, 23, 27 |
| WATER SUPPLY PIPING | PC | PC | PC | 1–3, 23, 27 |
| SANITARY DRAIN PIPING | PC | PC | PC | 1–3, 23, 27 |
| WASHING MACHINE | KES | KES | | 1–3, 23, 27 |
| WATER SUPPLY PIPING | PC | PC | PC | 1–3, 23, 27 |
| SANITARY DRAIN PIPING | PC | PC | PC | 1–3, 23, 27 |
| WARE WASHER | KES | KES | | 1–3, 23, 27 |
| WATER SUPPLY PIPING | PC | PC | PC | 1–3, 23, 27 |
| SANITARY DRAIN PIPING | PC | PC | PC | 1–3, 23, 27 |
| MISCELLANEOUS ITEMS | | | | |
| FIRE SPINKLER SYSTEMS | FPC | FPC | FPC | 1–3, 15, 25 |
| HVAC EQUIPMENT START–UP | MC | | | 1–3, 22 |
| TEST, ADJUST AND BALANCE HVAC SYSTEMS | TAB | | | 1–3, 22 |
| DOOR GRILLES (IF APPLICABLE) | MC | GC | | 1–3, 20, 22 |
| ROOF/WALL OPENINGS | GC | | | 1–3, 20–24 |
| APPLIANCE BACKFLOW PREVENTION | KES/BSI | PC | PC | 1–3, 23, 27 |
| CO2 DETECTION SYSTEM | KES/BSI | EC/BSI | EC/BSI | 1–3, 22, 27 |

NOTES:
1. THIS SCHEDULE IS INTENDED AS A GUIDE FOR THE WORK TO BE PERFORMED. ALL WORK SHALL BE COORDINATED BETWEEN THE McDONALD'S AREA CONSTRUCTION MANAGER AND ALL GC AND O/O SUBCONTRACTORS.
2. ONE (1) COPY OF THE DECOR PACKAGE DRAWINGS SHALL BE SUPPLIED TO THE GENERAL CONTRACTOR AND EACH OF THE SUBCONTRACTORS. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND THE SUBCONTRACTORS TO INSURE THAT THEY HAVE RECEIVED THE DECOR PACKAGE DRAWINGS.
3. FOR ANY WORK NOT CLARIFIED IN THIS SCHEDULE OR IN THE NOTES AND SPECIFICATIONS, PLEASE CONSULT THE McDONALD'S CONSTRUCTION MANAGER FOR SCOPE OF WORK.
4. ALL ROOFTOP UNIT EQUIPMENT SUPPLIED BY THE MECHANICAL CONTRACTOR AND THE KITCHEN EQUIPMENT SUPPLIER SHALL BE ON SITE AT THE SAME TIME FOR A SINGLE CRANE LIFT. EQUIPMENT SITE ARRIVAL DATE SHALL BE COORDINATED BETWEEN THE CONSTRUCTION MANAGER, MECHANICAL CONTRACTOR AND KITCHEN EQUIPMENT SUPPLIER.
5. ALL ROOFTOP UNITS INSTALLED IN McDONALD'S RESTAURANTS SHALL BE HIGH EFFICIENCY EQUIPMENT. THE INSTALLATION OF STANDARD EFFICIENCY ROOFTOP UNITS IS PROHIBITED. PLEASE REFER TO THE LATEST EDITION OF IECC FOR HVAC EQUIPMENT PERFORMANCE REQUIREMENTS.
6. ALL KITCHEN EQUIPMENT REQUIRING EXHAUST SHALL BE INSTALLED IN ACCORDANCE WITH THESE PLANS. ANY VARIATION FROM THESE PLANS SHALL BE REPORTED TO THE CONSTRUCTION MANAGER AND THE ENGINEER–OF–RECORD.
7. WHERE GYPSUM BOARD CEILINGS ARE INSTALLED, THE MECHANICAL CONTRACTOR SHALL SUPPLY DRYWALL MOUNTING FRAMES FOR LAY–IN TYPE DIFFUSERS.
8. ALL WORK SHOWN ON P1.6 DRAWING(S) SHALL BE COMPLETED BY THE BEVERAGE SYSTEM INSTALLER (OR K.E.S.) UNLESS OTHERWISE NOTED IN THE PLUMBING DRAWINGS.
9. ALL WORK ON P1.0 & P1.2 DRAWING(S) SHALL BE BY THE PLUMBING CONTRACTOR.
10. THE BEVERAGE SYSTEM INSTALLER FURNISHES, RUNS AND CONNECTS ALL FLEXIBLE WATER AND SYRUP LINES FOR ALL AFFECTED EQUIPMENT INCLUDING THE FOLLOWING:
    A. HOT CHOCOLATE
    B. COFFEE BREWER
    C. ICE MACHINE
    D. O.J.
    E. SODA TOWERS
11. ALL WATER HEATERS INSTALLED IN McDONALD'S RESTAURANTS SHALL BE HIGH EFFICIENCY SEALED–COMBUSTION WATER HEATERS. THE INSTALLATION OF STANDARD EFFICIENCY GRAVITY–VENTED WATER HEATERS IS PROHIBITED. PLEASE REFER TO THE LATEST EDITION OF IECC FOR SERVICE WATER–HEATING EQUIPMENT PERFORMANCE EFFICIENCY REQUIREMENTS.
12. THE CONSTRUCTION MANAGER, PLUMBING CONTRACTOR AND KITCHEN EQUIPMENT SUPPLIER SHALL COORDINATE WHICH SOILED DISHWASHER (3–COMPARTMENT SINK) IS BEING INSTALLED IN THE RESTAURANT.
13. ALL GAS PIPING FOR COOKING EQUIPMENT SHALL TERMINATE IN THE CEILING PRIOR TO THE INSTALLATION OF THE PIPING CHASE. UPON INSTALLATION OF THE CHASE, THE GAS PIPING SHALL THEN BE CONTINUED IN THE CHASE FOR FINAL CONNECTION TO THE APPLIANCE.
14. ALL GAS PIPING FOR ROOFTOP EQUIPMENT SHALL BE BROUGHT UP THROUGH THE BASE OF THE UNIT TO MINIMIZE ROOF PENETRATIONS. WHERE THIS IS NOT POSSIBLE, THE PLUMBING CONTRACTOR SHALL PROVIDE THE NECESSARY PIPE PORTALS ON ROOF.
15. ALL FIRE PROTECTION DRAWINGS CONTAINED WITHIN THIS SET ARE STRICTLY FOR REFERENCE ONLY. FIRE SPRINKLER DRAWINGS SHALL BE DESIGNED AND PERMITTED BY A FIRE PROTECTION CONTRACTOR.
16. ALL R–102 WET CHEMICAL FIRE SUPPRESSION SYSTEMS FOR TYPE I HOODS SHALL BE DESIGNED AND INSTALLED BY A LOCAL ANSUL AGENT. THE USE OF DRY CHEMICAL SYSTEMS IS PROHIBITED. THE LOCAL ANSUL AGENT CONTRACT IS HANDLED THROUGH THE KITCHEN EQUIPMENT SUPPLIER.
17. ALL ROOFTOP UNITS AND EXHAUST FANS ARE SUPPLIED WITH A FACTORY–INSTALLED DISCONNECT SWITCH.
18. ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT SWITCHES FOR REMOTE CONDENSING UNITS.
19. ALL ELECTRICAL CONDUITS FOR ROOFTOP EQUIPMENT SHALL BE BROUGHT UP THROUGH THE BASE OF THE UNIT TO MINIMIZE ROOF PENETRATIONS. WHERE THIS IS NOT POSSIBLE, THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE NECESSARY PIPE PORTALS ON ROOF.
20. WALK–IN COOLER AND WALK–IN FREEZER REFRIGERATION SYSTEMS SHALL MEET THE PERFORMANCE REQUIREMENTS OUTLINED IN THE LATEST EDITION OF IECC. MINIMUM ANNUAL WALK–IN ENERGY FACTOR (AWEF) PROVIDED BY EQUIPMENT MANUFACTURER IS DETERMINED IN ACCORDANCE WITH AHRI 1250.
21. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
22. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
23. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
24. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
25. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
26. SEE FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.
27. SEE FIRE ALARM DRAWINGS FOR ADDITIONAL INFORMATION.
28. SEE KITCHEN DRAWINGS FOR ADDITIONAL INFORMATION.
29. SEE DECOR DRAWINGS FOR ADDITIONAL INFORMATION.

# AIR DEVICE SCHEDULE

| TAG | MANUFACTURER | MODEL | BORDER | SIZE | COLOR | ACCESSORIES | NOTES |
|---|---|---|---|---|---|---|---|
| S–1 | TITUS | PDR | LAY–IN | 48x24 | WHITE | 7 | 1,2,8 |
| | PRICE | PDDRE | | | | | |
| S–2 | TITUS | OMNI | LAY–IN | 24x24 | VARIES | 4,6,7 | 1,6,7,8 |
| | PRICE | SPD | | | | | |
| S–3 | TITUS | OMNI | LAY–IN | 12x12 | VARIES | 1,2,7 | 1,3,6,8 |
| | PRICE | SPD | | | | | |
| S–4 | TITUS | TBDI–80 | LAY–IN | 48" (2) ¾" SLOTS | VARIES | 7 | 1,5,6,8 |
| | PRICE | TBDI4 | | | | | |
| R–1 | TITUS | PAR | LAY–IN | 24x24 | VARIES | 7 | 1,6,8 |
| | PRICE | 10 | | | | | |
| R–2 | TITUS | 355RL | SURFACE MOUNT | 4x12 | WHITE | – | 8 |
| | PRICE | 530 | | | | | |
| E–1 | TITUS | 355RL | LAY–IN | 12x12 | WHITE | 1,7 | 1,8 |
| | PRICE | 530 | | | | | |

ACCESSORIES:
1. COMBINATION DAMPER AND EQUALIZING GRID
2. PLASTER FRAME FOR DRYWALL CEILING INSTALLATION
3. (NOT USED)
4. BACKPAN INSULATION
5. (NOT USED)
6. BLANK–OFF PANEL AS SHOWN ON DUCTWORK PLAN
7. PLASTER FRAME MAY BE NECESSARY – COORDINATE WITH DECOR DRAWINGS

NOTES:
1. SEE PLAN FOR NECK SIZES
2. FABRICATE 46"x22"x27"H PLENUM WITH 14"ø SIDE INLET (SEE DETAIL 10 ON DRAWING M3.0)
3. PROVIDE 1" FIBERGLASS INSULATION FOR DIFFUSER BACKPAN
4. NOT USED
5. GENERAL CONTRACTOR SHALL PROVIDE ADDITIONAL 4 FT. T–BAR FOR DIFFUSER FRAMING
6. AIR DEVICE FINISH WILL VARY:
   * KITCHEN, STORAGE, RESTROOMS – WHITE
   * DINING ROOM, VESTIBULES – WHITE, BLACK OR PAINTABLE/PRIME COAT (COORDINATE FINAL COLOR WITH DECOR PLANS).
7. ADDITIONAL ACCESSORIES AND/OR ALTERNATE DIFFUSERS MAY BE REQUIRED. REFER TO DECOR DRAWINGS TO VERIFY.
8. ACCEPTABLE ALTERNATIVE MANUFACTURERS: NAILOR & METALAIRE.

# AIR CURTAIN SCHEDULE

| TAG | MANUFACTURER | MODEL | SERVES | AIRFLOW | ELEC | ACCESS | NOTES |
|---|---|---|---|---|---|---|---|
| AC 1 | POWERED AIRE | MP 1–30E | CASH BOOTH | VARIABLE | MCA: 40.5 MOCP: 60 ½ HP | 2–4 | 1,2 |
| AC 2 | POWERED AIRE | MP 1–30E | PRESENTER'S BOOTH | VARIABLE | MCA: 40.5 MOCP: 60 ½ HP | 2–4 | 1,2 |
| AC 3 | POWERED AIRE | RBT 1–48 | STORAGE ENTRANCE | 2,559 CFM | MCA: 8 MOCP: 20 ¾ HP | 1–3, 5 | 1,2 |
| AC 4 | POWERED AIRE | RBT 1–48 B | REAR ENTRANCE | 2,559 CFM B | MCA: 8 MOCP: 20 ¾ HP | 1–3, 5 | 1,2 |
| AC 5 | POWERED AIRE | MP 1–30E | FORWARD PRESENTER'S BOOTH | VARIABLE | MCA: 40.5 MOCP: 60 1/5 HP | 2–4 | 1,2 |

ACCESSORIES:
1. NSF LISTING
2. DOOR SWITCH
3. DELAY TIMER
4. 208V/1ø/60Hz (HEATED)
5. 120V/1ø/60Hz (NON–HEATED)

NOTES:
1. SET DELAY TIMER TO 30 SECONDS
2. MAINTAIN 7" CLEARANCE FOR MOTOR ACCESS ON SIDE OF AIR CURTAIN.
3. CLIENT TO NOTIFY EOR IF AIR CURTAINS SHOULD BE ADDED TO VESTIBULES (CLIENT PREFERENCE).

# CONTROLS

| SYMBOL | DESCRIPTION | MANUFACTURER | MODEL |
|---|---|---|---|
| T | 24V THERMOSTAT (ROOFTOP UNITS) | – | – |
| | 120V THERMOSTAT (COMPUTER CLOSET) | HONEYWELL | T651A3018 |
| TS | REMOTE TEMPERATURE SENSOR | – | – |
| ATS | REMOTE AVERAGING TEMPERATURE SENSOR | – | – |
| HS | REMOTE HUMIDITY SENSOR | – | – |
| C | BULK CO2 DETECTION SYSTEM | LOGIC02 | – |

NOTES:
1. FOR TSTAT, TS, HS AND ATS INFORMATION, REFER TO E4.1
2. TO ORDER HONEYWELL EQUIPMENT CALL (800)575–4841
3. SEE KITCHEN DRAWINGS FOR BULK CO2 DETECTION LOCATIONS

# KITCHEN HOOD SCHEDULE

| TAG | SERVED BY | GENERAL MANUFACTURER | MODEL | NOTES | AIRFLOW CFM | AIRFLOW CFM/LF | FILTERS QTY/SIZE | FILTERS FPM |
|---|---|---|---|---|---|---|---|---|
| KH 1 | EXHAUST FAN (EF–1) | FRANKE H&K | UH–122 | 1–4 | 1350 | 166 | (5)10x20 | 263 |
| KH 2 | EXHAUST FAN (EF–2) | FRANKE H&K | UH–50 | 1–4 | 575 | 173 | (3)10x16 | 255 |
| KH 3 | EXHAUST FAN (EF–3) | FRANKE H&K | UH–43 | 1–4 | 480 | 166 | (2)10x20 | 255 |
| KH 4 | EXHAUST FAN (EF–6) | FRANKE H&K | TYPE II | 1–2, 5 | 600 | 150 | – | – |

NOTES:
1. HOODS SHALL BE PROVIDED BY THE KES (SEE COORDINATION SCHEDULE)
2. SEE HOOD DRAWINGS FOR CONSTRUCTION DETAILS AND UL INFORMATION
3. REFER TO E3.2 FOR HOOD/FAN INTERLOCK DETAILS
4. CAPTURE JET PLENUMS TO BE INSTALLED ON HOOD, REFER TO K2.1 KITCHEN SCHEDULE.
5. PROVIDE WITH FASCIA KIT. COORDINATE CONDENSATE DRAINAGE WITH P.C.

# FAN SCHEDULE

| TAG | GENERAL MANUFACTURER | MODEL | SERVES | ACCESSORIES | NOTES | DESIGN CFM | S.P. | BHP | FRPM | ELECTRICAL VOLTS | Ø | Hz | HP | FLA AMPS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EF 1 | ACCUREX | XCUE–14010VG124MCD | KITCHEN HOOD (KH–1) | 1–5,13,14 | 1,2,6 | 1350 | 1.75 | 0.61 | 1725 | 115 TO 10VDC ECM | 1 | 60 | 1 | 11.5 |
| EF 2 | ACCUREX | XCUE–14010VG124MCD | KITCHEN HOOD (KH–2) | 1–5,14 | 1,2,6 | 575 | 1.75 | 0.19 | 1725 | 115 TO 10VDC ECM | 1 | 60 | 1 | 11.5 |
| EF 3 | ACCUREX | XCUE–14010VG124MCD | KITCHEN HOOD (KH–3) | 1–5,13,14 | 1,2,6 | 480 | 1.75 | 0.19 | 1725 | 115 TO 10VDC ECM | 1 | 60 | 1 | 11.5 |
| EF 4 | ACCUREX | XRED–099–VG4X–QD | DINING RESTROOMS | 6–9,14 | 1,2,5 | 400 | 0.50 | 0.07 | 1126 | 115 TO 10VDC ECM | 1 | 60 | ¼ | 2.5 |
| EF 5 | ACCUREX | XCR–A90 | DINING ROOM JANITOR'S CLOSET | 9–12 | 1–3,5 | 75 | 0.20 | – | 900 | 115 | 1 | 60 | – | 0.52 |
| EF 6 | ACCUREX | XCUE–099–VG | KITCHEN HOOD (KH–4) | 6–9,14 | 1,2,7 | 600 | 0.75 | 0.19 | 1725 | 115 | 1 | 60 | ¼ | 2.9 |
| TF 1 | ACCUREX | XCR–A125 | COMPUTER CLOSET | 9–12 | 1–4 | 100 | 0.20 | – | 1100 | 115 | 1 | 60 | – | 0.79 |

ACCESSORIES:
1. 2–POLE NEMA 3R DISCONNECT SWITCH FACTORY–WIRED AND MOUNTED TO FAN
2. UL 762 LISTED AND LABELED
3. ROOF CURB MODEL GPF–24–G30 WITH 1" INSULATION
4. CURB EXTENSION INTEGRAL TO MCD FAN PACKAGE
5. HINGED CURB CAP KIT WITH CABLES
6. 120VAC BACKDRAFT DAMPER
7. ROOF CURB MODEL GPI–19–G14 WITH 1" INSULATION AND DAMPER TRAY
8. NEMA 3R DISCONNECT SWITCH
9. EXTERNAL STEADY–STATE SPEED CONTROLLER
10. ROUND DUCT CONNECTOR
11. TWO (2) 10W COMPACT LED LAMPS
12. PRISMATIC LENS
13. WINDBAND EXTENSION ON FAN OUTLET
14. VARIGREEN 10VDC ELECTRONICALLY COMMUTATED MOTOR

NOTES:
1. NO SUBSTITUTIONS PERMITTED
2. TO ORDER ACCUREX EQUIPMENT CALL (888)325–6629 OR E–MAIL: MCD@ACCUREX.COM
3. ELECTRICAL CONTRACTOR SHALL PROVIDE DOOR SWITCH FOR LIGHT CONTROL
4. MECHANICAL CONTRACTOR SHALL FURNISH LINE VOLTAGE THERMOSTAT FOR FAN CONTROL. ELECTRICAL CONTRACTOR SHALL INSTALL THERMOSTAT.
5. CONNECT TO TIMECLOCK FOR FAN SHUT–OFF DURING UNOCCUPIED HOURS
6. REFER TO E3.2 FOR HOOD/FAN INTERLOCK DETAILS
7. UNIT SHALL BE INTERLOCKED WITH WAREWASHER SWITCHING CONTACT.

# ROOFTOP UNIT SCHEDULE

| TAG | MFR. | MODEL | SERVES | GENERAL ACCESSORIES 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 | WEIGHT (LBS) | AIRFLOW S.A. | E.S.P. | R.A. | O.A. | M.A.(S) | M.A.(W) | COOLING(MBH) TOTAL | SENS | LAT | HEATING (Gas) INPUT | OUTPUT | STAGES | CONN | ARI RATING SEER | EER | IEER | MOTOR HP | RPM | ELECTRICAL V | Ph | Hz | MCA | MOCP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RTU–1 | TRANE | YHD 240 F 3 ** L | KITCHEN | X X X X X X X X X X X X X X X X X X X X X | 2,650 | 8,000 | 1.40 | 6,400 | 1,600 | 79.7 | 58.1 | 259.0 | 192.5 | 66.5 | 250,000 | 203,000 | 2 | 1/2" | - | 11 | 11.7 | 7.50 | 913 | 208 | 3 | 60 | 112 | 125 |
| RTU–2 | TRANE | YHC 60 E 3 ** L | SUPPORT | X X X X X X X X X X X X X X X X X X X X X | 1,250 | 2,000 | 0.80 | 1,200 | 800 | 79.5 | 55.7 | 63.5 | 47.3 | 16.2 | 60,000 | 48,000 | 1 | 1/2" | 15 | 12.9 | - | 0.75 | 960 | 208 | 3 | 60 | 30 | 45 |
| RTU–3 | TRANE | YHD 180 F 3 ** H | DINING ROOM | X X X X X X X X X X X X X X X X X X X X X | 2,129 | 6,000 | 1.00 | 4,800 | 1,200 | 79.4 | 55.5 | 181.5 | 138.0 | 43.5 | 250,000 | 203,000 | 2 | 1/2" | - | 12 | 13.3 | 3.00 | 663 | 208 | 3 | 60 | 72 | 90 |

X = Required, O = Optional

ACCESSORIES:
1. Diff. Enthalpy Economizer
2. Through–the–Base Electrical & Condensate Connection
3. Barometric Relief
4. 2" Pleated Filters
5. Pwr. Exh. (PlayPlace ≥ 12.5 tons only)
6. $CO_2$ Sensor for DCV (PlayPlace only)
7. Humidity Control
8. Supply Air Tempering
9. Temperature Sensor
10. Combined Temp/Humidity Sensor
11. Disconnect Switch
12. Field Wired 120V Convenience Outlet
13. Stainless Steel Heat Exchanger (M.A. < 45°F)
14. Condenser Coil Protective Coating (within 15 miles of salt water)
15. Evaporator Coil Protective Coating (within 5 miles of salt water)
16. Hail Guards
17. Return Air Smoke Detector
18. Supply Air Smoke Detector
19. 14" High Roof Curb
20. Condensate Drain with P–Trap
21. Float Switch Kit

Notes:
1. No Substitutions Permitted
2. To order Trane equipment, call (630)400–4285 or Email: MCDONALDS@Trane.com
3. Factory installed disconnect switch not available when MOCP is 200 amps or larger. Verify with manufactures documentation.
4. Mechanical Contractor shall install secondary enthalpy sensor in return air duct drop & wire to unit per manufacturers instructions.

PROJECT No. 60734777 Task: 032–0312

| REV | DATE | DOOR SIZE REVISED PER 00 REQUEST |
|---|---|---|
| B | 7/24/2023 | DESCRIPTION |

DATE: .....

PREPARED BY:
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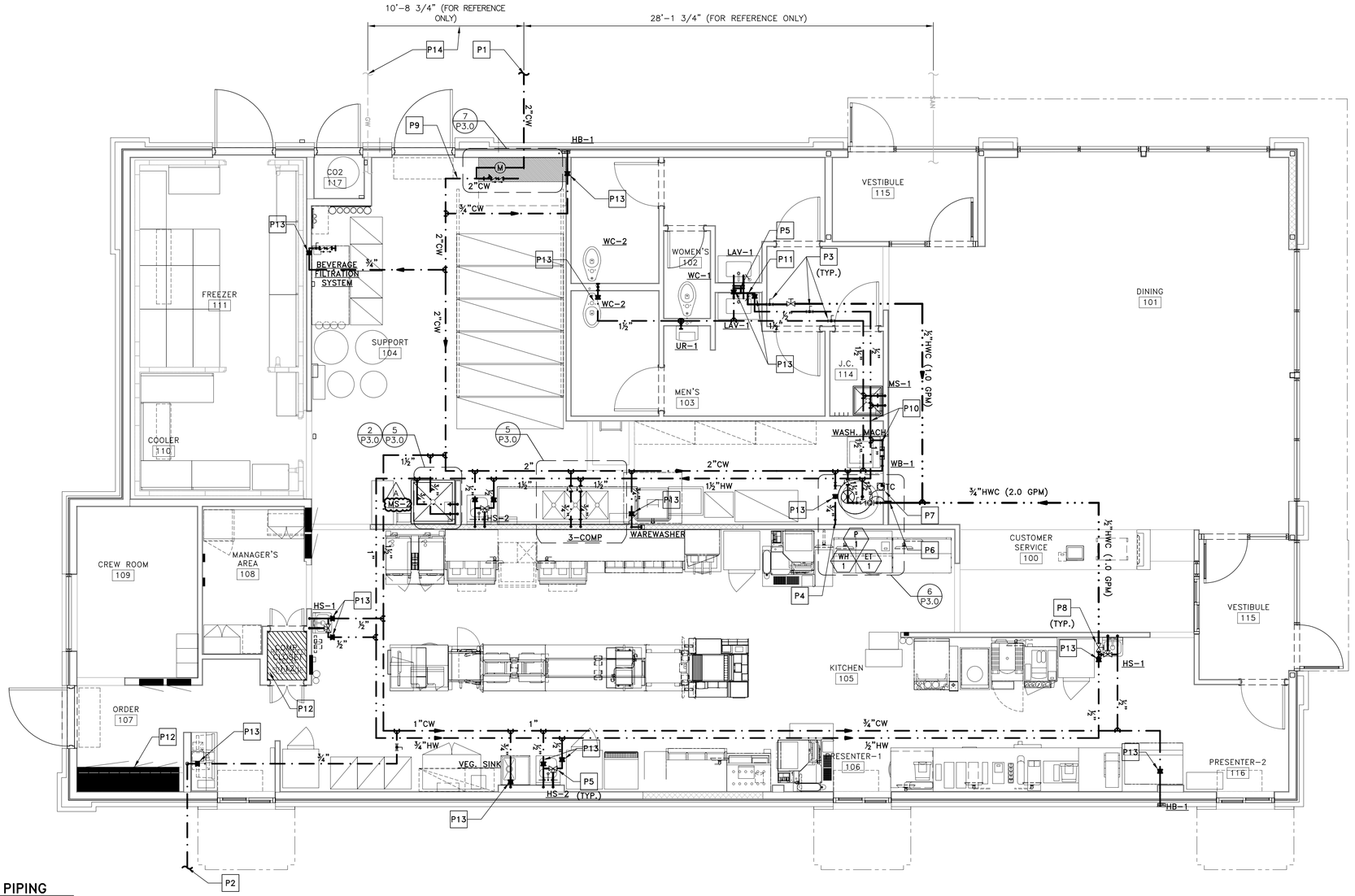
PREPARED FOR:
McDonald's USA, LLC

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| DRAWN BY | STD ISSUE DATE |
|---|---|
| DT | 2023 11 |
| REVIEWED BY | DATE ISSUED |
| CA | 9/6/2024 |

TITLE
2024 STANDARD BUILDING – BB20
4584–WOOD/WOOD
DESCRIPTION
WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & CI
WOOD TRUSS ROOF FRAMING
BRICK/ ALPOLIC PANEL
NSN: 10721
SITE ADDRESS
102 W CORNELIUS HARNETT BLVD
LILLINGTON, NC
L/C: 032–0312

SHEET NO.
032–0312.00.0
M4.1
SCHEDULES




1 P1.0 **DOMESTIC WATER PIPING**

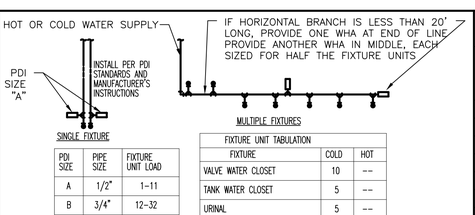
SCALE: 1/4" = 1'-0"

## DRAWING NOTES

1. PIPING ROUTES AS SHOWN ARE GENERAL AND MAY VARY DUE TO FIELD CONDITIONS. COORDINATE ALL PIPE ROUTES WITH OTHER TRADES. MAKE SURE HOT WATER MAIN LOOP REMAINS WITHIN 10 FT OF FIXTURE FOR ENERGY CODE PURPOSE.
2. ALL WATER DISTRIBUTION PIPING SHALL BE INSULATED. INSULATION NOT SHOWN FOR CLARITY. SEE PLUMBING NOTES FOR INSULATION REQUIREMENTS, SHEET M4.0, "DOMESTIC SUPPLY SYSTEMS", NOTE 18.

## KEYED NOTES

- P1 INCOMING UNDERGROUND WATER SERVICE (SEE SITE PLAN FOR CONTINUATION). WATER PIPING FROM THIS POINT TO CEILING PENETRATION INSIDE BUILDING SHALL BE COPPER.
- P2 COLD WATER UNDERGROUND TO YARD HYDRANT (HB-2) IN TRASH CORRAL. SEE SITE PLAN FOR CONTINUATION.
- P3 SHUT-OFF VALVE FOR RESTROOM ISOLATION. SEE VALVE SCHEDULE. ALL SHUT-OFF VALVES SHALL BE LOCATED OVER SUSPENDED CEILINGS FOR ACCESSIBILITY. DO NOT LOCATE IN AREAS WITH DRYWALL CEILINGS.
- P4 ¾" COLD WATER UP TO ROOF HYDRANT.
- P5 FOR MIXING VALVE LOCATIONS AND INSTALLATION DETAILS ON PUBLIC LAVATORIES, SEE DETAIL 3 ON DRAWING P3.0. FOR PRIVATE HAND SINKS OR LAVS, MIXING VALVES FOR INFORMATIONAL PURPOSES.
- P6 PIPE-MOUNTED AQUASTAT TO SHUT PUMP DOWN WHEN RECIRULATION TEMPERATURE REACHES 140°F. SEE DETAIL 6 ON DRAWING P3.0.
- P7 TIME CLOCK TO SHUT PUMP AND WATER HEATER DOWN DURING UNOCCUPIED HOURS. SEE ELECTRICAL DRAWINGS FOR WIRING DETAIL.
- P8 BALANCING VALVE FOR RECIRCULATION SYSTEM. SEE VALVE SCHEDULE. ALL BALANCING VALVES SHALL BE LOCATED OVER SUSPENDED CEILINGS FOR ACCESSIBILITY. DO NOT LOCATE IN AREAS WITH DRYWALL CEILINGS.
- P9 WATER PIPING AFTER CEILING PENETRATION CAN TRANSITION TO CPVC OR PEX WHERE PERMITTED BY CODE.
- P10 PROPERLY SEAL ALL PIPE PENETRATIONS THROUGH DRAFT STOP WALL (TYP.)
- P11 HOT WATER RECIRCULATION SHALL CONNECT WITHIN 6" OF SUPPLY STUB OUT TO FIXTURE.
- P12 UTILITIES SHALL NOT BE ROUTED ABOVE THE TECH. CLOSET AND THE SWITCHGEAR.
- P13 INSTALL WATER-HAMMER ARRESTOR WHERE QUICK-CLOSING VALVES ARE UTILIZED. WATER-HAMMER ARRESTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. WATER-HAMMER ARRESTORS SHALL CONFORM TO ASSE 1010.
- P14 MAINTAIN A MINIMUM OF 10'-0" CLEARANCE FROM THE INCOMING DOMESTIC WATER TO THE GREASE WASTE AND SANITARY LINES.




| PDI SIZE | PIPE SIZE | FIXTURE UNIT LOAD |
|---|---|---|
| A | 1/2" | 1-11 |
| B | 3/4" | 12-32 |

| FIXTURE UNIT TABULATION | | |
|---|---|---|
| FIXTURE | COLD | HOT |
| VALVE WATER CLOSET | 10 | -- |
| TANK WATER CLOSET | 5 | -- |
| URINAL | 5 | -- |
| LAVATORY/SINK | 1.5 | 1.5 |
| JANITOR'S SINK | 3 | 3 |
| HOSE BIBB | 2 | -- |
| SODA FACTORY | 10 | -- |
| WAREWASHER | 4 | -- |

PC TO PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE #1010 AND ANSI #A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE.

DETAIL 2 P1.0

WATER-HAMMER ARRESTER (TYP.)
NOT TO SCALE

## FIXTURE COUNT - IPC

| NO. | FIXTURE DESCRIPTION | SUPPLY WSFU | SUPPLY CONNECTIONS COLD | SUPPLY CONNECTIONS HOT | SUPPLY TOTAL |
|---|---|---|---|---|---|
| 1 | VEGETABLE PREP SINK | 4 | ¾" | – | 4 |
| 4 | HAND SINK | 1 | ½" | ½" | 4 |
| 4 | HOSE BIBB | 3 | ¾" | – | 12 |
| 1 | SODA FACTORY | 10 | 1" | – | 10 |
| 1 | KITCHEN SINK (3-COMP) | 4 | ¾" | ¾" | 4 |
| 2 | MOP SINK | 2 | ¾" | ¾" | 4 |
| 2 | LAVATORY | 1 | ½" | ½" | 2 |
| 1 | URINAL | 5 | 1" | – | 5 |
| 3 | WATER CLOSET | 10 | 1 ½" | – | 30 |
| 1 | WASHING MACHINE | 4 | ¾" | ¾" | 4 |
| 1 | WAREWASHER | 4 | ¾" | – | 4 |
| | | | | TOTAL: | 83 |

(63 GPM)

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| REV | DATE | DESCRIPTION |
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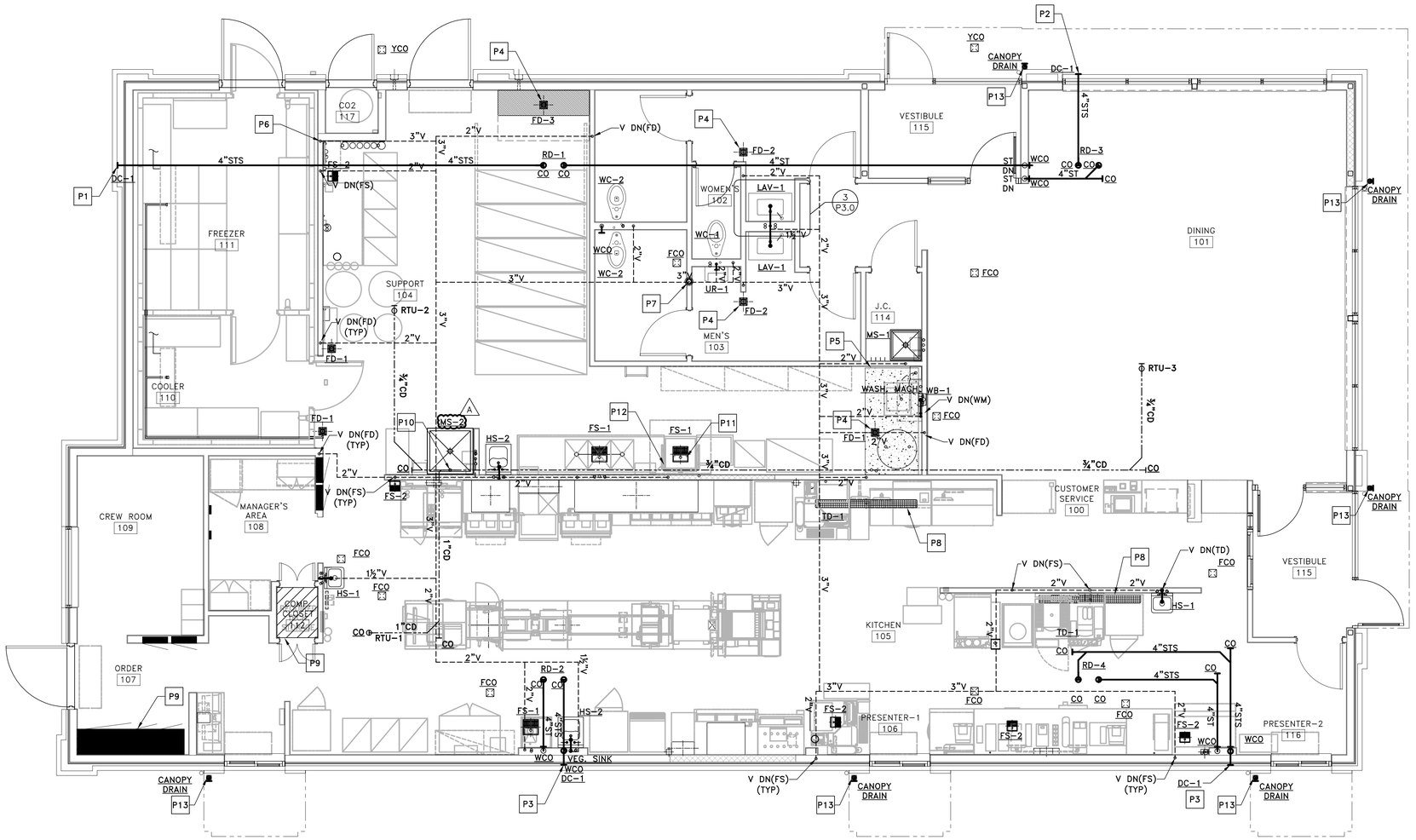
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DRAWN BY: –
STD ISSUE DATE: 2023 11
REVIEWED BY: GA
DATE ISSUED: 9/6/2024

TITLE: 2024 STANDARD BUILDING – BB20
4584-WOOD/WOOD
DESCRIPTION
WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & CI
WOOD TRUSS ROOF FRAMING
BRICK/ ALPOLIC PANEL
NSN: 10721
SITE ADDRESS
L/C: 032-0312
102 W CORNELIUS HARNETT BLVD
LILLINGTON, NC

SHEET NO. 032-0312.00.0
P1.0
DOMESTIC WATER PIPING

PROJECT No. 60734777 Task: 032-0312




1 P1.2 **VENT & STORM PIPING PLAN**

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

## DRAWING NOTES

1. PIPING ROUTES ARE GENERAL AND MAY VARY DUE TO FIELD CONDITIONS. COORDINATE ALL PIPE ROUTES WITH OTHER TRADES.
2. WALL CLEAN-OUTS FOR WASTE PIPING NOT SHOWN FOR CLARITY. SEE GENERAL NOTES FOR REQUIREMENTS.
3. ONLY MAIN FLOOR CLEAN-OUTS ARE SHOWN FOR CLARITY. SEE GENERAL NOTES FOR REQUIREMENTS.
4. ALL HORIZONTAL STORM DRAINAGE PIPING SHALL BE INSULATED TO PREVENT CONDENSATION. INSULATION NOT SHOWN FOR CLARITY. SEE PLUMBING NOTES FOR INSULATION REQUIREMENTS.

## KEYED NOTES

- P1 TERMINATE OVERFLOW DRAIN AS HIGH AS POSSIBLE WITH DOWNSPOUT COVER.
- P2 TERMINATE OVERFLOW DRAIN ABOVE TRELLIS WITH DOWNSPOUT COVER. BOTTOM OF DOWNSPOUT OUTLET PIPE SHALL BE AT LEAST 3" BUT NOT MORE THAN 8" ABOVE TOP OF TRELLIS.
- P3 TERMINATE BOTTOM OF OVERFLOW DRAIN A MINIMUM OF 12" ABOVE GRADE WITH DOWNSPOUT COVER.
- P4 PROVIDE PROSET TRAP GUARD® FOR FLOOR DRAIN.
- P5 TOP OF CONCRETE SLAB IS 0'-6" A.F.F.
- P6 VENT FROM GREASE INTERCEPTOR. SEE SITE PLAN FOR CONTINUATION. COORDINATE PIPE ROUTING WITH LOCATION OF GREASE INTERCEPTOR.
- P7 4" VENT UP THROUGH ROOF WITH A 4"x5" VENT CAP
- P8 REFERENCE MANUFACTURER INSTALLATION GUIDE FOR LAYOUT AND SLOPING GUIDELINES PRIOR TO INSTALL AND POURING THE SLAB.
- P9 UTILITIES SHALL NOT BE ROUTED ABOVE THE TECH. CLOSET AND THE SWITCHGEAR.
- P10 CONDENSATE LINE FROM RTUs DOWN TO DRAIN AT MOP SINK INDIRECT WITH AIR GAP 2 x DIAMETER, TERMINATE PIPE ABOVE FLOOD RIM. FURNISHED AND INSTALLED BY PC. SEE COORDINATION SCHEDULE ON P4.1 & M4.1.
- P11 CONTRACTOR SHALL ROUTE ½" OD 304 S/S PIPE (PROVIDED BY OTHERS) FROM TYPE II EXHAUST HOOD TO FLOOR SINK.
- P12 CONTRACTOR SHALL INSTALL DRAIN PIPE AND AIR GAP KIT (PROVIDED BY OTHERS). CONNECT DRAIN HOSES FROM WAREWASHER TO DRAIN PIPE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. REFER TO DETAIL 9/P3-0 FOR FURTHER DETAILS.
- P13 CONNECT TO CANOPY GUTTER DRAIN. COORDINATE QUANTITY AND EXACT LOCATION OF CONNECTIONS WITH CANOPY MANUFACTURER'S DRAWINGS.

## STORM PIPE SIZING

RAINFALL = 4 IN./HR

VERTICAL LEADERS

| ROOF DRAIN | ROOF AREA SQ. FT. | SIZE IN. |
|---|---|---|
| RD-1 | 1,050 | 4 |
| RD-2 | 1,140 | 4 |
| RD-3 | 760 | 4 |
| RD-4 | 760 | 4 |
| | | |
| TOTAL | 3,710 | |

HORIZONTAL PIPING (SLOPE ⅛" PER FOOT)

| ROOF DRAIN | ROOF AREA SQ. FT. | SIZE IN. |
|---|---|---|
| RD-2 & RD-4 | 1,900 | 6 |
| RD-2, RD-3 & RD-4 | 2,660 | 6 |
| RD-1, RD-2, RD-3 & RD-4 | 3,710 | 6 |
| | | |

| REV | DATE | DESCRIPTION |
|---|---|---|
| | | |

DATE: .....

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TITLE: 2024 STANDARD BUILDING - BB20
4584-WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & GI
WOOD TRUSS ROOF FRAMING
BRICK / ALPOLIC PANEL

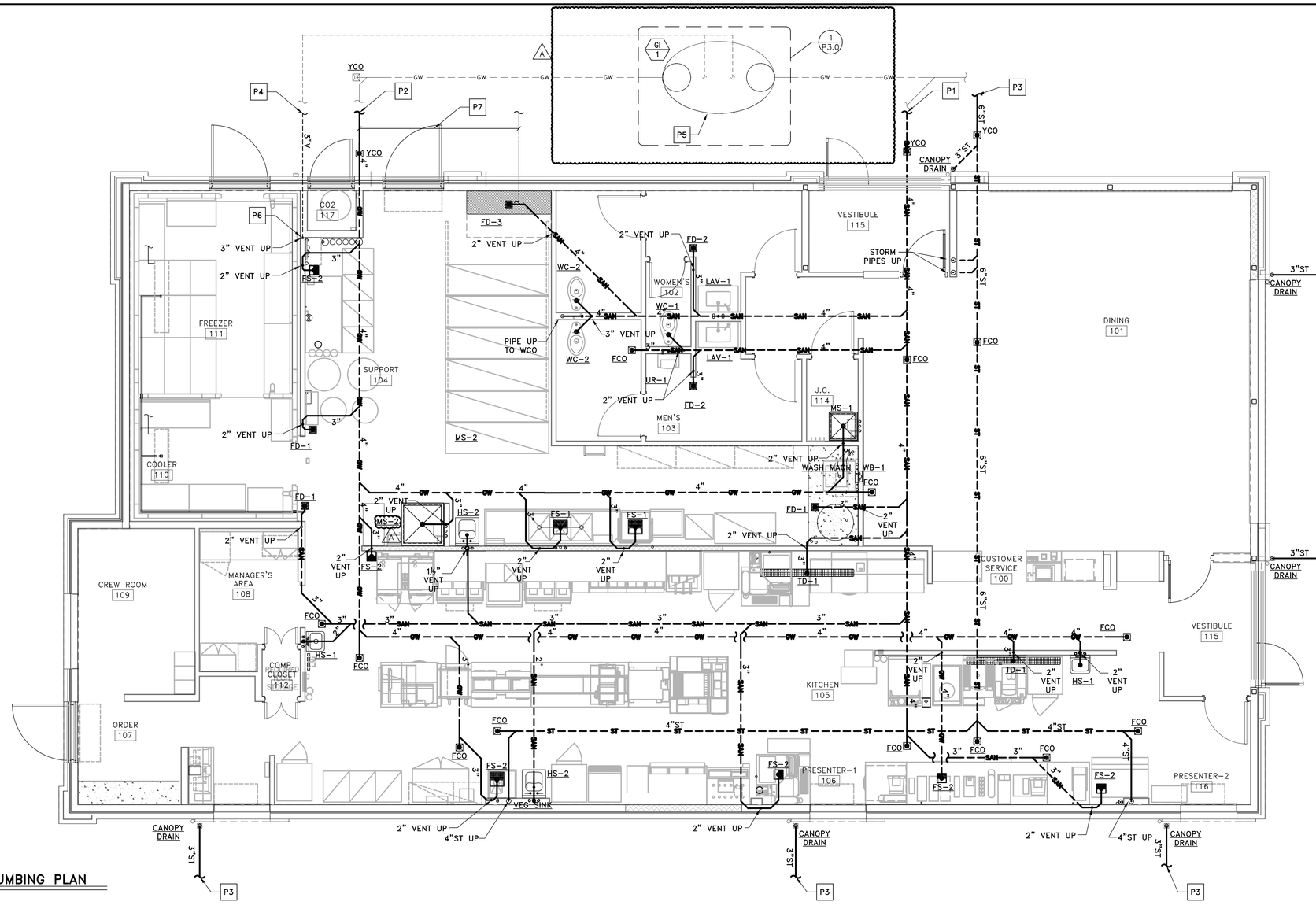
NSN: 10721 | SITE ADDRESS: 102 W CORNELIUS HARNETT BLVD
LJC: 032-0312 | LILLINGTON, NC

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STD ISSUE DATE: 2023 11
REVIEWED BY: GA
DATE ISSUED: 9/6/2024

032-0312.00.0

SHEET NO. P1.2
VENT & STORM PIPING PLAN

PROJECT No. 60734777 Task: 032-0312




1 P1.3 **UNDERFLOOR PLUMBING PLAN**

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

## DRAWING NOTES

1. PIPING ROUTES ARE GENERAL AND MAY VARY DUE TO FIELD CONDITIONS. COORDINATE ALL PIPE ROUTES WITH OTHER TRADES.
2. WALL CLEAN-OUTS FOR WASTE PIPING NOT SHOWN FOR CLARITY. SEE GENERAL NOTES FOR REQUIREMENTS.
3. ONLY MAIN FLOOR CLEAN-OUTS ARE SHOWN FOR CLARITY. SEE GENERAL NOTES FOR REQUIREMENTS.

## KEYED NOTES

- P1 SANITARY LINE TO SANITARY SEWER. SEE SITE PLAN FOR CONTINUATION.
- P2 GREASE LINE TO EXTERIOR GREASE INTERCEPTOR. SEE SITE PLAN FOR CONTINUATION
- P3 STORM LINE TO STORM SYSTEM. SEE SITE PLAN FOR CONTINUATION.
- P4 VENT FROM GREASE INTERCEPTOR. SEE SITE PLAN FOR CONTINUATION. COORDINATE PIPE ROUTING WITH LOCATION OF GREASE INTERCEPTOR.
- P5 GREASE INTERCEPTOR LOCATION SHOWN FOR REFERENCE ONLY. COORDINATE GREASE INTERCEPTOR LOCATION WITH CIVIL ENGINEER AND SITE CONTRACTOR.
- P6 NOT USED.
- P7 MAINTAIN A MINIMUM OF 10'-0" SEPARATION BETWEEN WATER AND SEWER LINES OUTSIDE OF BUILDING WALLS.

## WASTE PIPE SIZING - IPC

| FIXTURE TYPE | TRAP SIZE | DFU | QUANTITY | TOTAL |
|---|---|---|---|---|
| URINAL | 2 IN. | 4 | 1 | 4 |
| WATER CLOSET | 3 IN. | 4 | 3 | 12 |
| LAVATORY | 1¼ IN. | 1 | 2 | 2 |
| WASH SINK (HAND SINK) | 1½ IN. | 2 | 4 | 8 |
| FLOOR DRAIN OR SINK | 3 IN. | 5 | 5 | 25 |
| FLOOR DRAIN OR SINK | 4 IN. | 6 | 1 | 6 |
| EMERGENCY FLOOR DRAIN (BATHROOMS) | 3 IN. | 0 | 2 | 0 |
| | | | TOTAL | 57 |

## GREASE PIPE SIZING - IPC

| | | | | |
|---|---|---|---|---|
| SERVICE SINK (MOP SINK) | 3 IN. | 3 | 2 | 6 |
| FLOOR DRAIN OR SINK | 3 IN. | 5 | 7 | 35 |
| FLOOR DRAIN OR SINK | 4 IN. | 6 | 1 | 6 |
| WASHING MACHINE | 2 IN. | 3 | 1 | 3 |
| | | | TOTAL | 50 |

## STORM PIPE SIZING

RAINFALL = 4 IN./HR

VERTICAL LEADERS

| ROOF DRAIN | ROOF AREA SQ. FT. | SIZE IN. |
|---|---|---|
| RD-1 | 1,050 | 4 |
| RD-2 | 1,140 | 4 |
| RD-3 | 760 | 4 |
| RD-4 | 760 | 4 |
| | | |
| TOTAL | 3,710 | |

HORIZONTAL PIPING (SLOPE ¼" PER FOOT)

| ROOF DRAIN | ROOF AREA SQ. FT. | SIZE IN. |
|---|---|---|
| RD-2 & RD-4 | 1,900 | 6 |
| RD-2, RD-3 & RD-4 | 2,660 | 6 |
| RD-1, RD-2, RD-3 & RD-4 | 3,710 | 6 |
| | | |

PROJECT No. 60734777 Task: 032-0312

| REV | DATE | DESCRIPTION |
|---|---|---|
| A | 4/2/2025 | UPDATED GI AS PER MOD COMMENTS |

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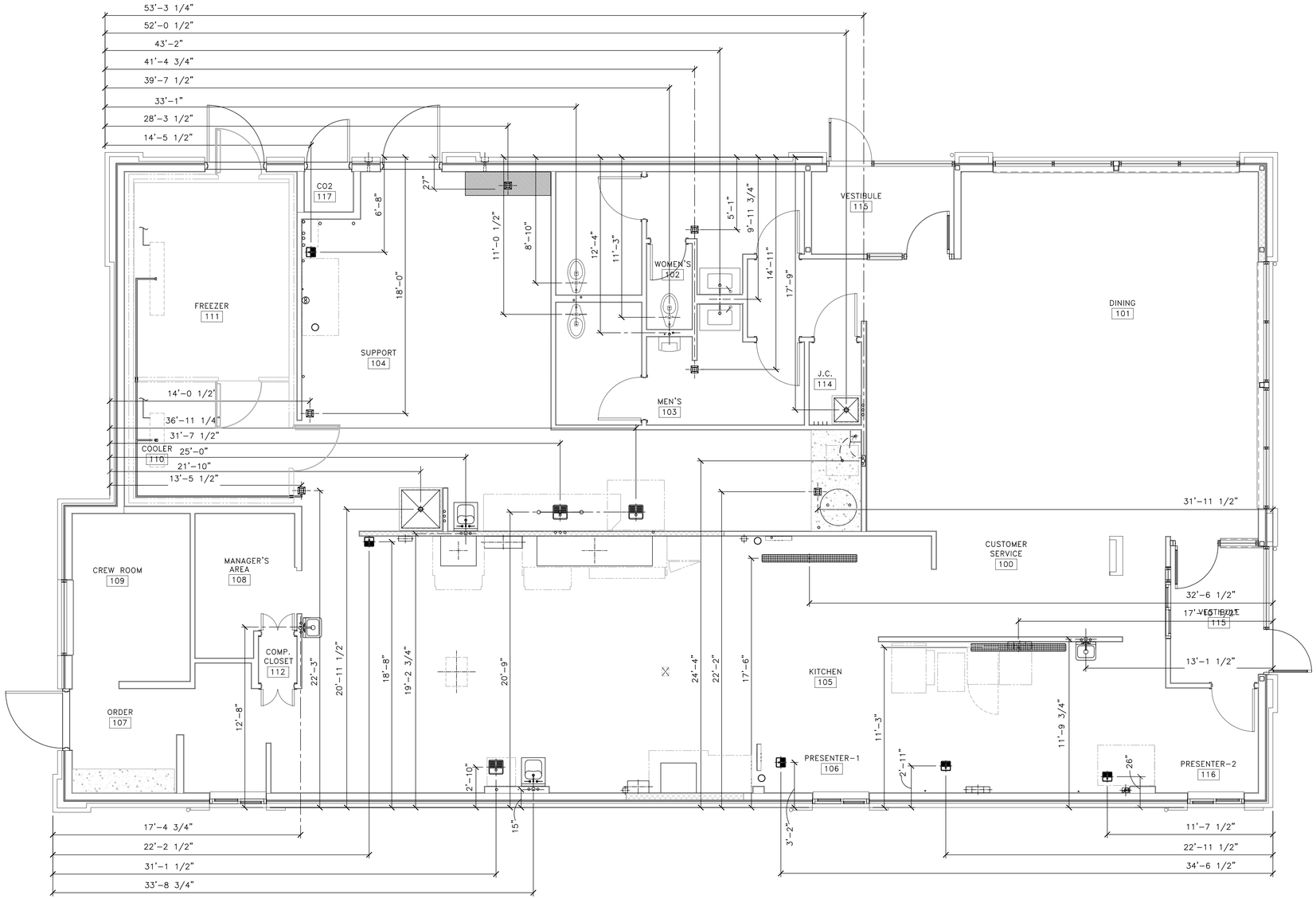
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STD ISSUE DATE: 2023 11
REVIEWED BY: CA
DATE ISSUED: 9/6/2024
ULLINGTON, NC

TITLE: 2024 STANDARD BUILDING – BB20
4584-WOOD/WOOD

DESCRIPTION:
WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & CI
WOOD TRUSS ROOF FRAMING
BRICK/ ALPOLIC PANEL

MSN: 10721
SITE ADDRESS: 102 W CORNELIUS HARNETT BLVD
L/C: 032-0312

SHEET NO.: P1.3
032-0312.00.0
UNDERGROUND PLUMBING




1 P1.4 **UNDERGROUND ROUGH-IN**

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

## DRAWING NOTES

1. THIS PLAN IS PROVIDED AS A GUIDE FOR THE PLUMBING CONTRACTOR. ALL DIMENSIONS ARE ROUNDED TO THE NEAREST ¼" AND ARE TAKEN FROM THE OUTSIDE EDGE OF THE FOUNDATION WALL TO CENTERLINE OF SLAB PENETRATION.

PROJECT No. 60734777 Task: 032-0312

DATE: .....

| REV | DATE | DESCRIPTION |
|---|---|---|
| | | |

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LILLINGTON, NC

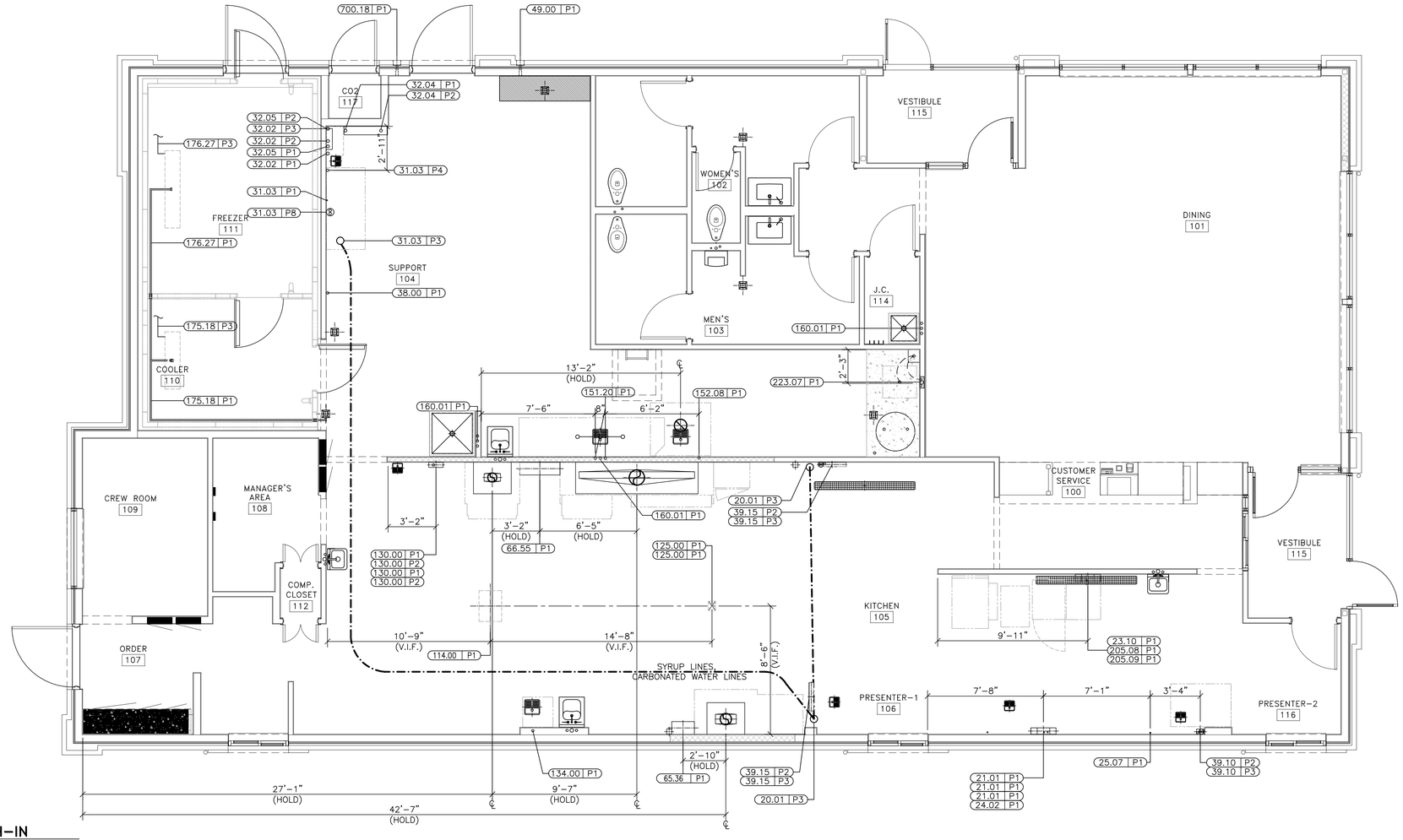
TITLE
2024 STANDARD BUILDING – BB20
4584-WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & CI
WOOD TRUSS ROOF FRAMING
BRICK / ALPOLIC PANEL

NSN: 10721
L/C: 032-0312

SITE ADDRESS
102 W CORNELIUS HARNETT BLVD

SHEET NO.
032-0312.00.0
P1.4
UNDERGROUND ROUGH-IN




1 P1.6 **OVERHEAD ROUGH-IN**

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

VIF = Verify in Field
PC = Plumbing Contractor
BSI = Beverage System Installer

## PLUMBING SCHEDULE

| TAG # | QTY | DESCRIPTION | GAS TYPE | GAS BTU | GAS SIZE | HW | CW | MISC PLBG | HGT AFF | DRAIN | REQUIREMENTS & REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 020.01P3 | 2.00 | AUTOMATED BEVERAGE SYSTEM 2.0 | – | – | – | – | – | SODA BUNDLE | SEE RMKS | – | DN CHASE FROM SODA SYSTEM – "T" FROM D/T – BSI TO MAKE FINAL CONNECTIONS PER LOCAL CODES |
| 021.01P1 | 3.00 | COFFEE BREWER (GLASS DECANTERS) | – | – | 1/4" TRTD | – | – | – | SEE RMKS | – | DN CHASE FROM SODA SYSTEM – IF NO CHASE RUN IN 2"COND TO JB –BSI TO CONN CW LINE PER LOCAL CODES. 1/4" R.O. WATER OPTIONAL |
| 023.10P1 | 1.00 | ESPRESSO BREWER | – | – | 3/8" R.O. | – | – | – | SEE RMKS | 3/8" IND | DN CHASE FROM R.O. SYSTEM – IF NO CHASE RUN IN 2"COND TO JB –BSI TO CONN CW LINE PER LOCAL CODES |
| 024.02P1 | 1.00 | JUICE DISPENSER | – | – | 1/2" FLTR | – | – | – | SEE RMKS | – | – |
| 025.07P1 | 1.00 | INFUSION TEA BREWER – MIS | – | – | – | – | 1/2" TRTD | 3/8" CO2 | SEE RMKS | – | DN CHASE FROM SODA SYSTEM – IF NO CHASE RUN IN 2"COND TO JB –BSI TO CONN CW LINE PER LOCAL CODES |
| 031.03P1 | 1.00 | SODA SYSTEM PACKAGE B.I.B.(RECIRCULATING– 3 TOWERS) | – | – | – | – | – | 3/8" OUTLET | SEE RMKS | – | FLEX LINE OVERHEAD TO VARIOUS EQUIP. BSI TO MAKE FINAL CONN PER LOCAL CODES |
| 031.03P3 | 1.00 | SODA SYSTEM PACKAGE B.I.B.(RECIRCULATING– 3 TOWERS) | – | – | – | – | – | SODA BUNDLE | SEE RMKS | – | OVERHEAD TO SODA TOWER CHASE(S) – BSI TO MAKE FINAL CONNECTIONS PER LOCAL CODES |
| 031.03P4 | 1.00 | SODA SYSTEM PACKAGE B.I.B.(RECIRCULATING– 3 TOWERS) | – | – | – | – | 3/4" | – | 1'-6" | 3/4" IND | BSI TO MAKE CONNECTION FROM BACKFLOW PREVENTER (VERIFY HEIGHT IN FIELD) |
| 031.03P8 | 1.00 | SODA SYSTEM PACKAGE B.I.B.(RECIRCULATING– 3 TOWERS) | – | – | – | – | – | REFRIG LINES | SEE RMKS | – | FROM REMOTE CONDENSING UNIT |
| 032.02P1 | 1.00 | REVERSE OSMOSIS WATER FILTRATION SYSTEM – TANKLESS | – | – | – | – | 3/8" FLTR | – | SEE RMKS | – | FLEX LINE OVERHEAD FROM SODA SYSTEM –BSI TO MAKE FINAL CONN PER LOCAL CODES |
| 032.02P2 | 1.00 | REVERSE OSMOSIS WATER FILTRATION SYSTEM – TANKLESS | – | – | – | – | – | 3/8" OUTLET | SEE RMKS | – | FLEX LINE OVERHEAD TO RAPID STEAMER, ESPRESSO, AND COFFEE (OPT.) –BSI TO MAKE FINAL CONN PER LOCAL CODES |
| 032.02P3 | 1.00 | REVERSE OSMOSIS WATER FILTRATION SYSTEM – TANKLESS | – | – | – | – | – | – | – | 1/4" WASTE | – |
| 032.04P1 | 1.00 | WATER FILTRATION SYSTEM | – | – | – | – | – | 3/4" INLET | 6'-0" | – | – |
| 032.04P2 | 1.00 | WATER FILTRATION SYSTEM | – | – | – | – | – | 3/4" OUTLET | – | – | 3/4" GHT RINSE CONN. FLEX LINE OVHD. TO RAPID STEAMER, ESPRESSO, & COFFEE (OPT.) –BSI TO MAKE FINAL CONN PER LOCAL CODE |
| 032.05P1 | 1.00 | WATER FILTRATION SYSTEM | – | – | – | – | – | 3/4" INLET | SEE RMKS | – | FLEX LINE OVERHEAD FROM R.O. SYSTEM –BSI TO MAKE FINAL CONN PER LOCAL CODES |
| 032.05P2 | 1.00 | WATER FILTRATION SYSTEM | – | – | – | – | – | 3/4" OUTLET | SEE RMKS | – | FLEX LINE OVERHEAD TO COMBI OVENS AND STAGING CABINET –BSI TO MAKE FINAL CONN PER LOCAL CODES |
| 038.00P1 | 1.00 | CLEAN IN PLACE PANEL | – | – | – | – | 1/2" FLTR | – | 6'-0" | – | FOR CLEANING BULK COKE TANKS. INSTALL HEIGHT TO BOTTOM OF UNIT |
| 039.10P2 | 1.00 | ICE MACHINE – 1400 LB. | – | – | – | – | 1/2" TRTD | – | SEE RMKS | 3/4" IND | WATER LINE OVERHEAD FROM SODA SYSTEM – BSI TO MAKE FINAL CONNECTIONS PER LOCAL CODES |
| 039.10P3 | 1.00 | ICE MACHINE – 1400 LB. | – | – | – | – | – | REFRIG LINES | – | – | REFRIGERATION LINES OVERHEAD FROM REMOTE CONDENSING UNIT |
| 039.15P2 | 2.00 | ICE MACHINE – 1000 LB. | – | – | – | – | 1/2" TRTD | – | SEE RMKS | 3/4" IND | WATER LINE OVERHEAD FROM SODA SYSTEM – BSI TO MAKE FINAL CONNECTIONS PER LOCAL CODES |
| 039.15P3 | 2.00 | ICE MACHINE – 1000 LB. | – | – | – | – | – | REFRIG LINES | – | – | REFRIGERATION LINES OVERHEAD FROM REMOTE CONDENSING UNIT |

VIF = Verify in Field
PC = Plumbing Contractor
BSI = Beverage System Installer

## PLUMBING SCHEDULE

| TAG # | QTY | DESCRIPTION | GAS TYPE | GAS BTU | GAS SIZE | HW | CW | MISC PLBG | HGT AFF | DRAIN | REQUIREMENTS & REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 049.00P1 | 1.00 | CO2 FILL BOX | – | – | – | – | – | – | 3'-4" | – | HEIGHT IS TO BOTTOM OF FILL BOX;SUPPLIED BY MANUFACTURER;INSTALLED BY G.C. SEE BUILDING ELEVATIONS. |
| 065.36P1 | 1.00 | 3–VAT LOV FRYER – GAS – F/F/F | – | 225,000 | 1" | – | – | – | – | – | EXTEND (1) GAS LINE DN CHASE AFTER EQUIPMENT ITEM(S) INSTALLED |
| 066.55P1 | 1.00 | 4–VAT LOV FRYER – GAS – S/S/S/S | – | 300,000 | 1" | – | – | – | – | – | EXTEND (1) GAS LINE DN CHASE AFTER EQUIPMENT ITEM(S) INSTALLED |
| 114.00P1 | 1.00 | HUMIDIFIED HOLDING CABINET | – | – | – | – | 3/8" R.O. | – | SEE RMKS | – | BSI EXTENDS CW LINE OVERHEAD FROM R.O. SYSTEM & TERM. W/QUICK DISCONN. AND SHUTOFF |
| 125.00P1 | 2.00 | RAPID BUN STEAMER | – | – | – | – | 3/8" R.O. | – | SEE RMKS | – | BSI EXTENDS CW LINE FROM R.O. SYSTEM & TERM. W/QUICK DISCONN. |
| 130.00P1 | 2.00 | COMBI OVEN | – | – | – | – | 1/2" FLTR | – | SEE RMKS | 1 1/2" IND | BSI EXTENDS CW LINE OVERHEAD FROM SODA SYSTEM & TERM. W/QUICK DISCONN. AND SHUTOFF |
| 130.00P2 | 2.00 | COMBI OVEN | – | – | – | – | 3/8" R.O. | – | SEE RMKS | – | BSI EXTENDS CW LINE OVERHEAD FROM R.O. SYSTEM & TERM. W/QUICK DISCONN. AND SHUTOFF |
| 134.00P1 | 1.00 | VEGETABLE SINK | – | – | – | – | 3/4" | – | 1'-10" | 1-1/2" IND | – |
| 151.20P1 | 1.00 | SOILED DISHTABLE – RIGHT HAND – 115.5" WIDE – NC CODE | – | – | – | 3/4" 140 | 3/4" | – | 1'-6" | – | PC TO MAKE FINAL CONNECTIONS PER LOCAL CODE |
| 152.08P1 | 1.00 | WAREWASHER – HIGH TEMP | – | – | – | – | 3/4" | – | SEE RMKS | 1" INDIRECT | PC TO PROVIDE HW, CW, INDIRECT DRAIN PIPING AND MAKE ALL FINAL CONNECTIONS. CW @ 1'-0" AFF, DRAIN @ 36" |
| 160.01P1 | 3.00 | CHEMICAL SYSTEM | – | – | – | 3/4" 110 | – | – | SEE RMKS | – | PC TO PROVIDE 3/4" MHT. FINAL CONNECTIONS BY EQUIPMENT INSTALLER PER LOCAL CODE, SEE SHEET P3.0 FOR INSTALLATION HEIGHT |
| 175.18P1 | 1.00 | COOLER EVAPORATOR | – | – | – | – | – | – | – | 3/4" COND. | PC TO ROUTE CONDENSATE DRAIN LINE TO FLOOR DRAIN. PC TO LIQUID–TIGHT SEAL OPENING FOR LINE EXITING BOX |
| 175.18P3 | 1.00 | COOLER EVAPORATOR | – | – | – | – | – | REFRIG LINES | – | – | RUN TO REMOTE CONDENSING UNIT–INSULATE FULL RUN LENGTH –INSTALLED BY REFRIG. CONTRACTOR |
| 176.27P1 | 1.00 | FREEZER EVAPORATOR | – | – | – | – | – | – | – | 3/4" COND. | PC TO ROUTE CONDENSATE DRAIN LINE TO FLOOR DRAIN. PC TO LIQUID–TIGHT SEAL OPENING FOR LINE EXITING BOX. HEAT TAPE BY REF. |
| 176.27P3 | 1.00 | FREEZER EVAPORATOR | – | – | – | – | – | REFRIG LINES | – | – | RUN TO REMOTE CONDENSING UNIT–INSULATE FULL RUN LENGTH–INSTALLED BY REFRIG. CONTRACTOR |
| 205.08P1 | 1.00 | BIC MACHINE | – | – | – | – | 1/2" FLTR | – | SEE RMKS | 1" IND | DN CHASE. IF NO CHASE RUN IN 2"COND TO JB –BSI TO CONNECT LINES PER LOCAL CODES |
| 205.09P1 | 1.00 | FROZEN BEVERAGE DISPENSER | – | – | – | – | 1/2" FLTR | 3/8" CO2 | SEE RMKS | – | DN CHASE. IF NO CHASE RUN IN 2"COND TO JB –BSI TO CONNECT LINES PER LOCAL CODES |
| 223.07P1 | 1.00 | WASHER | – | – | – | 3/4" 140 | 3/4" | – | 4'-0" | 1 1/2" D | SEE PLUMBING DWGS FOR WALL BOX. INSTALL HEIGHT IS TO BOTTOM OF THE BOX |
| 700.18P1 | 1.00 | BULK OIL FILL BOX | – | – | – | – | – | – | 3'-4" | – | HEIGHT IS TO BOTTOM OF FILL BOX;SUPPLIED BY MANUFACTURER;INSTALLED BY G.C. SEE BUILDING ELEVATIONS. |

PROJECT No. 60734777 Task: 032–0312

| REV | DATE | DESCRIPTION |
|---|---|---|
| | | |

DATE: .....

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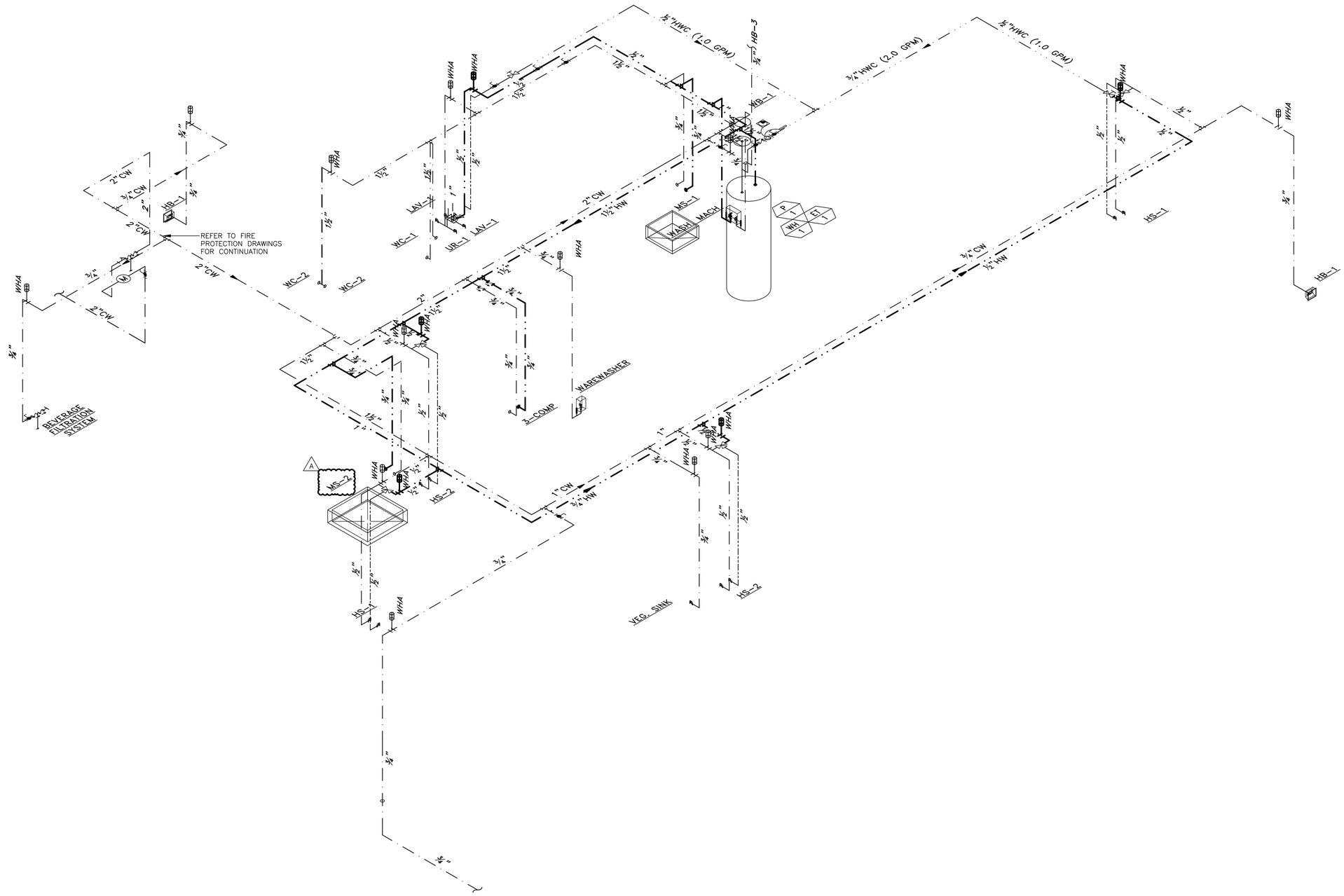
TITLE
2024 STANDARD BUILDING – BB20
4584–WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & CI
WOOD TRUSS ROOF FRAMING
BRICK/ ALPOLIC PANEL

NSN: 10721
L/C: 032–0312

SITE ADDRESS
102 W CORNELIUS HARNETT BLVD
LILLINGTON, NC

SHEET NO.
032–0312.00.0
P1.6
OVERHEAD ROUGH–IN

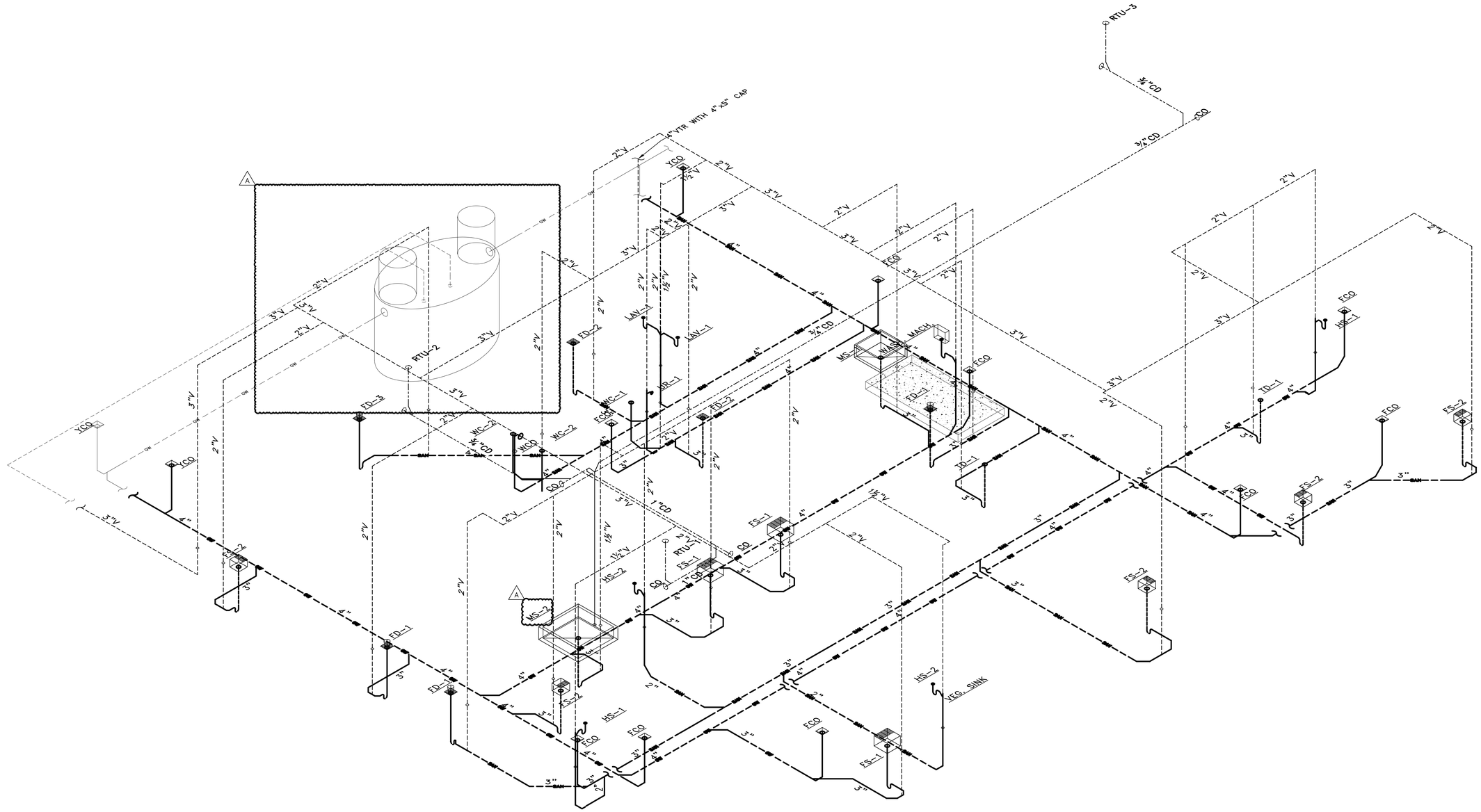



1 P2.0 **DOMESTIC WATER PIPING ISOMETRIC**

SCALE: NONE

PROJECT No. 60734777 Task: 032-0312

| | | | |
|---|---|---|---|
| | | | |
| | | | |
| | | | |




1 P2.1 **WASTE & VENT PIPING ISOMETRIC**

SCALE: NONE

PROJECT No. 60734777 Task: 032-0312

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| A | 4/2/2025 | UPDATED GI AS PER MOD COMMENTS |

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| DATE ISSUED | 9/6/2024 |
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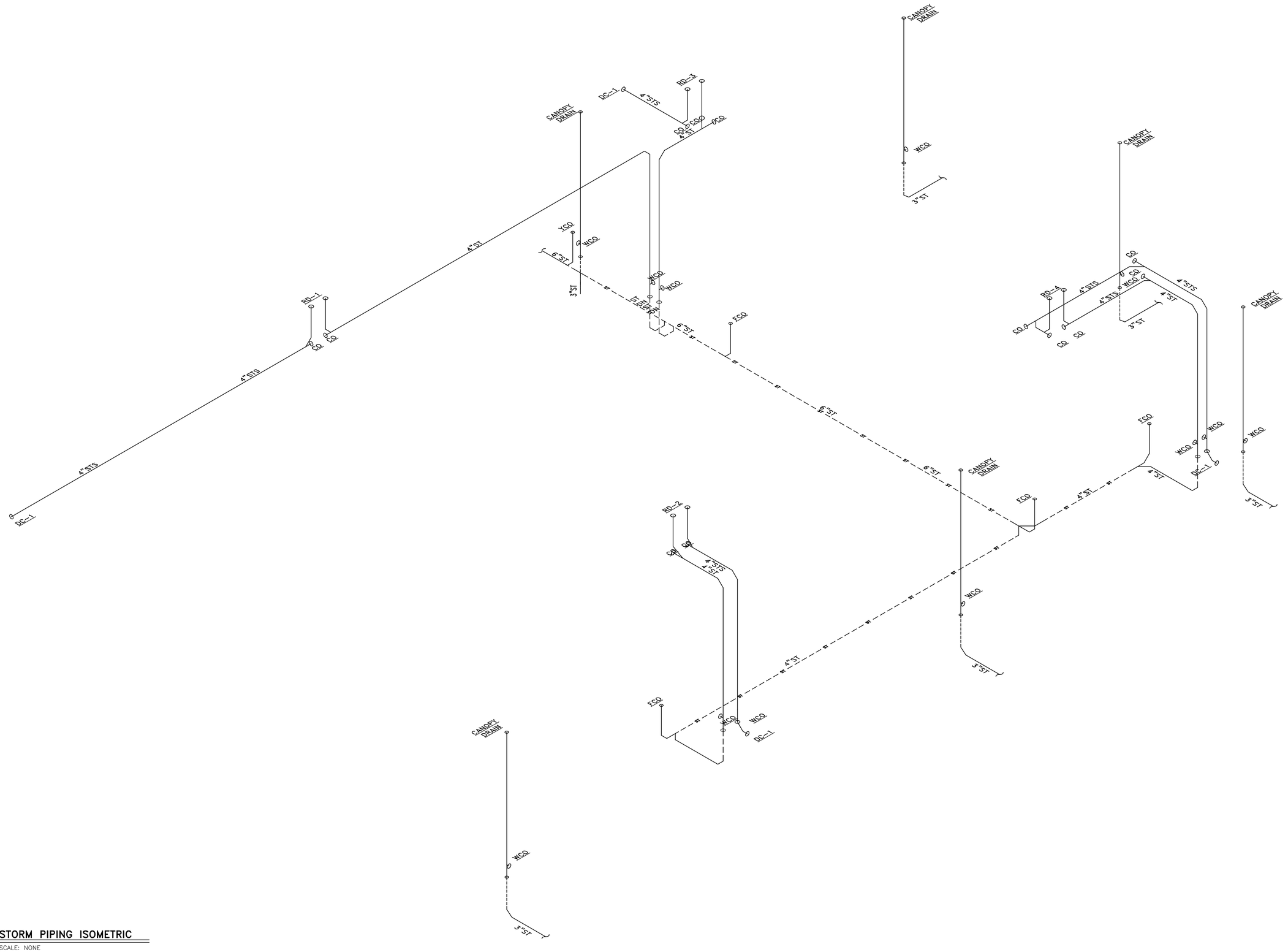
TITLE
2024 STANDARD BUILDING – BB20
4584–WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & CI
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BRICK/ ALPOLIC PANEL

NSN: 10721
L/C: 032-0312

SITE ADDRESS
102 W CORNELIUS HARNETT BLVD

SHEET NO.
032-0312.00.0
P2.1
WASTE & VENT ISOMETRIC




1 P2.2 **STORM PIPING ISOMETRIC**
SCALE: NONE

PROJECT No. 60734777 Task: 032-0312

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| | |
|---|---|
| DRAWN BY | – |
| STD ISSUE DATE | 2023 11 |
| REVIEWED BY | CA |
| DATE ISSUED | 9/6/2024 |

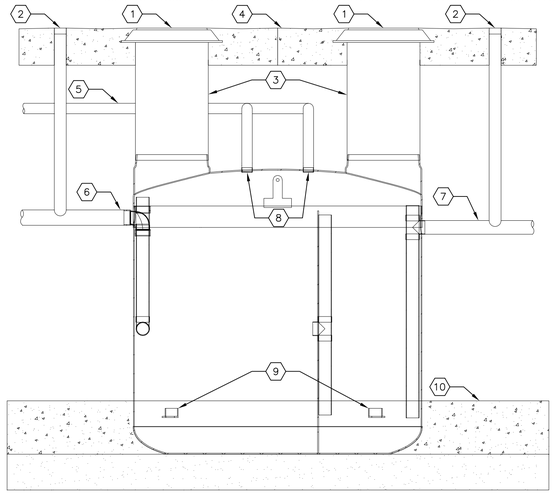
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2024 STANDARD BUILDING – BB20
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DESCRIPTION
WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & CI
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BRICK/ ALPOLIC PANEL

NSN: 10721
L/C: 032-0312

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LILLINGTON, NC

SHEET NO.
032-0312.00.0
P2.2
STORM ISOMETRIC

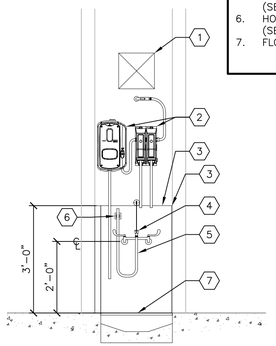



ELEVATION VIEW

KEYED NOTES:
1. 24"ø MANWAY ACCESS COVER CONSTRUCTED OF ROUND CAST IRON OR SIMILAR RATED FOR HEAVY ROAD TRAFFIC WITH SUFFICIENT WEIGHT TO PREVENT UNAUTHORIZED ACCESS, OR BOLT OR LOCKING MECHANISM.
2. 4" CLEAN–OUT
3. MANWAY EXTENSION TO FINISHED GRADE
4. CONCRETE SLAB FOR TRAFFIC LOADING
5. 3"ø VENT BACK TO BUILDING
6. 4"ø INLET
7. 4"ø OUTLET
8. 3"ø VENT CONNECTION
9. HOLD DOWN BRACKET
10. ANTI–BUOYANCY PAD FOR HIGH WATER TABLE INSTALLATIONS

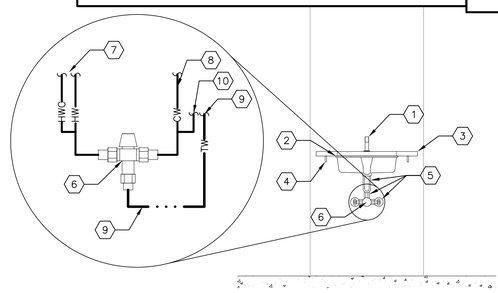
*SEE ZURN (GREEN TURTLE) PROCEPTOR INSTALLATION INSTRUCTIONS FOR ADDITIONAL INFORMATION.

## DETAIL 1 P3.0
GREASE INTERCEPTOR INSTALLATION
SCALE: NONE



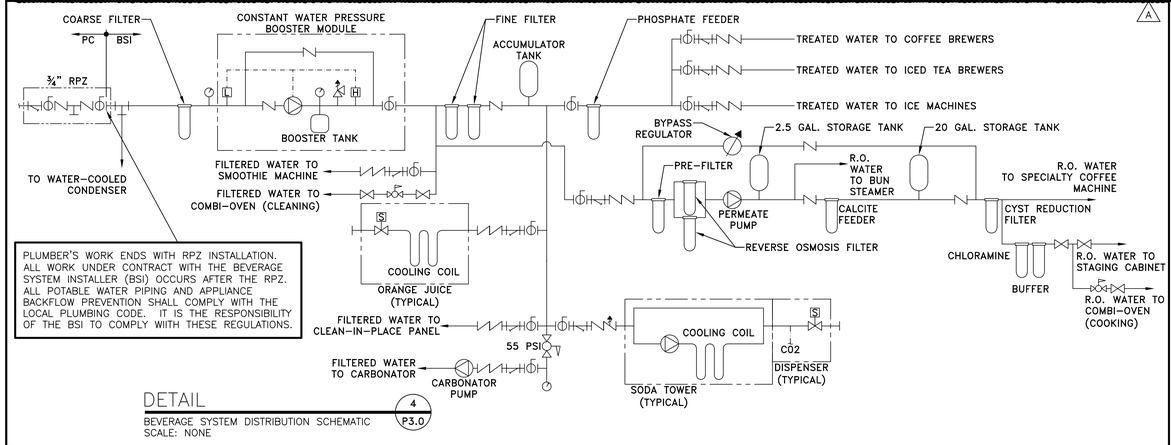

KEYED NOTES:
1. ACCESS PANEL FOR THERMOSTATIC MIXING VALVE (SEE CHEMICAL SYSTEM INSTALLATION DETAIL)
2. ECOLAB CHEMICAL SYSTEM (SEE CHEMICAL SYSTEM INSTALLATION DETAIL)
3. 24"Wx36"H WALL GUARD (QTY. 2) FURNISHED WITH MOP SINK (SEE PLUMBING FIXTURE SCHEDULE)
4. MOP SINK FAUCET WITH INTEGRAL VACUUM BREAKER (SEE PLUMBING FIXTURE SCHEDULE)
5. HOSE FURNISHED WITH MOP SINK FAUCET (SEE PLUMBING FIXTURE SCHEDULE)
6. HOSE BRACKET FURNISHED WITH MOP FAUCET (SEE PLUMBING FIXTURE SCHEDULE)
7. FLOOR GRATE

## DETAIL 2 P3.0
RECESSED MOP SINK
SCALE: ½"=1'–0"



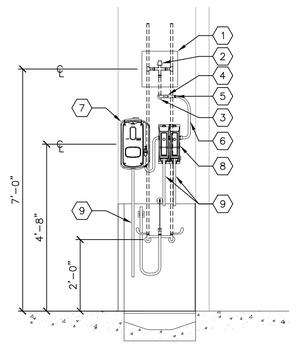

KEYED NOTES:
1. FAUCET (SEE PLUMBING FIXTURE SCHEDULE)
2. LAVATORY OR HAND SINK (SEE PLUMBING FIXTURE SCHEDULE)
3. CORIAN COUNTERTOP – TOILET ROOMS ONLY (FURNISHED BY G.C.)
4. LAVATORY CARRIER – TOILET ROOMS ONLY (SEE ARCHITECTURAL DRAWINGS)
5. OUTLINE OF ADA COMPLIANT WRAP (SEE PLUMBING FIXTURE SCHEDULE)
6. THERMOSTATIC MIXING VALVE (SEE VALVE SCHEDULE)
7. HOT WATER AND HWC DOWN WALL (WITH BALANCING VALVE AND CHECK VALVE INSTALLED).
8. COLD WATER DOWN TO MIXING VALVE
9. TEMPERATED WATER TO FIXTURES
10. COLD WATER TO FIXTURES AS APPLICABLE.

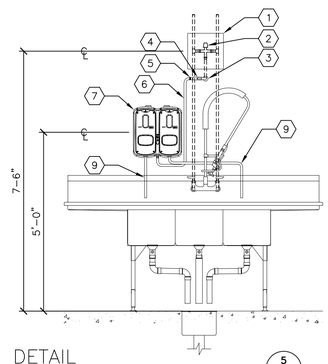
## DETAIL 3 P3.0
LAVATORY (PUBLIC)
SCALE: ½"=1'–0"




PLUMBER'S WORK ENDS WITH RPZ INSTALLATION. ALL WORK UNDER CONTRACT WITH THE BEVERAGE SYSTEM INSTALLER (BSI) OCCURS AFTER THE RPZ. ALL POTABLE WATER PIPING AND APPLIANCE BACKFLOW PREVENTION SHALL COMPLY WITH THE LOCAL PLUMBING CODE. IT IS THE RESPONSIBILITY OF THE BSI TO COMPLY WITH THESE REGULATIONS.

## DETAIL 4 P3.0
BEVERAGE SYSTEM DISTRIBUTION SCHEMATIC
SCALE: NONE



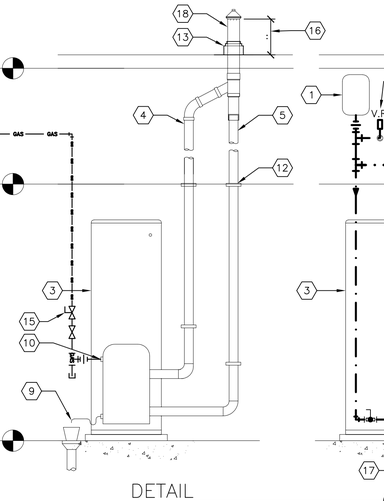




KEYED NOTES:
1. 12"x12" ACCESS PANEL (COORDINATE INSTALLATION WITH G.C.)
2. THERMOSTATIC MIXING VALVE SET TO 110°F (SEE VALVE SCHEDULE)
3. PIPE THROUGH WALL WITH ESCUTCHEON PLATE
4. SHUT–OFF VALVE
5. ¾" MHT CONNECTION

***PLUMBER'S WORK ENDS AT MHT CONNECTION***

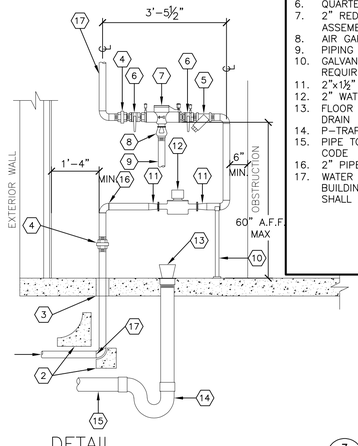
6. HOSE TO CHEMICAL SYSTEM
7. ECOLAB SOLIDSENSE CHEMICAL DISPENSER
8. ECOLAB SMARTSHAPE CHEMICAL DISPENSER
9. CHEMICAL DISPENSING HOSE

## DETAIL 5 P3.0
CHEMICAL SYSTEM INSTALLATION
SCALE: ½"=1'–0"



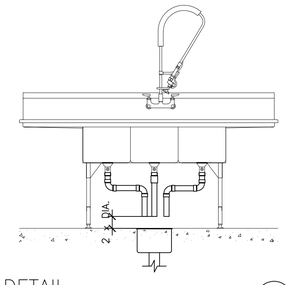

KEYED NOTES:
1. THERMAL EXPANSION TANK (SEE EXPANSION TANK SCHEDULE)
2. WATER HEATER PRESSURE/TEMPERATURE RELIEF VALVE (EXTEND TO FLOOR DRAIN)
3. WATER HEATER (SEE WATER HEATER SCHEDULE)
4. 3" PVC INTAKE. (SIZE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS)
5. 3" ABS MIN. 84" REQ'D. (SIZE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS).
6. RECIRULATION PUMP (SEE PUMP SCHEDULE)
7. STRAP–ON AQUASTAT FOR PUMP CONTROL
8. TIMECLOCK TO SHUT DOWN PUMP AND WATER HEATER DURING UNOCCUPIED HOURS
9. SEALED–COMBUSTION CONDENSATE DRAIN (EXTEND TO FLOOR DRAIN)
10. GAS CONNECTION
11. WATER HEATER DRAIN (EXTEND TO FLOOR DRAIN)
12. PIPE SUPPORT EVERY 5 FT. MINIMUM
13. PIPE BOOT BY PORTALS PLUS (OR EQUAL)
14. PROVIDE VACUUM RELIEF VALVE FOR BOTTOM–FED WATER HEATERS (ANSI Z21.22) WILKINS MODEL VR10.
15. GAS PRESSURE REGULATOR (AS APPLICABLE).
16. CONCENTRIC VENT KIT. MAINTAIN 12" MIN. CLEARANCE ABOVE HIGHEST ANTICIPATED SNOW LEVEL. MAXIMUM OF 24" ABOVE ROOF.
17. FLOOR DRAIN WITH FUNNEL OR FLOOR SINK. REFER TO P1.2 FOR PLAN AND P4.1 FOR SCHEDULE.
18. 4.5" COMBINED CONCENTRIC VENT. (SIZE PER MANUFACTURER'S INSTALLATIONS INSTRUCTIONS).

## DETAIL 6 P3.0
WATER HEATER PIPING
SCALE: NONE

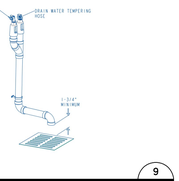



KEYED NOTES:
1. INCOMING UNDERGROUND WATER SERVICE SIZED PER BUILDING PLUMBING WATER CALCULATIONS
2. BLOCKING AT CHANGES IN DIRECTION
3. MINIMUM ½" ANNULAR CLEARANCE
4. UNION
5. BRONZE STRAINER
6. QUARTER–TURN BALL VALVE
7. 2" REDUCED PRESSURE ZONE (RPZ) ASSEMBLY
8. AIR GAP FOR RELIEF VALVE
9. PIPING FROM AIR GAP TO FLOOR DRAIN
10. GALVANIZED STEEL PIPE SUPPORTS AS REQUIRED
11. 2"x1½" BUSHING
12. 2" WATER METER
13. FLOOR DRAIN–PITCH FLOOR TOWARDS DRAIN
14. P–TRAP
15. PIPE TO SEWER–PITCH AND VENT PER CODE
16. 2" PIPE FOR WATER SERVICE
17. WATER PIPING FROM 5 FT. FROM BUILDING TO CEILING PENETRATION SHALL BE COPPER.

## DETAIL 7 P3.0
INCOMING WATER SERVICE WITH RPZ AND METER
SCALE: ½"=1'–0"




## DETAIL 8 P3.0
INDIRECT DRAINAGE PIPING (TYP.)
SCALE: ½"=1'–0"




## DETAIL 9 P3.0
WAREWASHER DRAIN AIR GAP KIT
SCALE: NTS

PROJECT No. 60734777 Task: 032–0312

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STD ISSUE DATE 2023 11
REVIEWED BY: GA
DATE ISSUED 9/6/2024

TITLE: 2024 STANDARD BUILDING – BB20
4584–WOOD/WOOD
DESCRIPTION
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WOOD TRUSS ROOF FRAMING
BRICK/ ALPOLIC PANEL
MSN: 10721
L/C: 032–0312

SITE ADDRESS
102 W CORNELIUS HARNETT BLVD
LILLINGTON, NC

SHEET NO.
032–0312.00.0
P3.0
DETAILS

# GENERAL PLUMBING NOTES

GENERAL:

1. ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
2. ALL PLUMBING WORK SHALL BE PERFORMED BY A LICENSED PLUMBER.
3. ALL DIMENSIONS, CLEARANCES AND TOLERANCES SHALL BE VERIFIED PRIOR TO INSTALLATION. ALL ROUGH–IN LOCATIONS SHALL BE COORDINATED WITH THE MANUFACTURER'S SUBMITTAL INFORMATION.
4. ALL DIMENSIONAL INFORMATION IS AS FOLLOWS (UNLESS NOTED OTHERWISE):
   A. UNDERGROUND PIPE IS TO FOUNDATION
   B. OVERHEAD PIPE IS TO FINISHED WALL
   C. ELEVATIONS ARE TO FINISHED FLOOR
5. ALL MATERIALS, FIXTURES AND EQUIPMENT USED SHALL BE IN ACCORDANCE WITH McDONALD'S SPECIFICATIONS. SPECIFICATIONS ARE CONTAINED WITHIN THESE DRAWINGS AND THE McDONALD'S PROJECT MANUAL. ANY CONTRACTOR IN NEED OF A COPY OF THE McDONALD'S PROJECT MANUAL SHALL CONTACT THE McDONALD'S AREA CONSTRUCTION MANAGER. ANY VARIANCE FROM THE McDONALD'S SPECIFICATIONS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER–OF–RECORD.
6. SEE COORDINATION SCHEDULE FOR ADDITIONAL SCOPE OF WORK.
7. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH ITS LISTING AND/OR THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
8. WHERE POOR SOIL CONDITIONS EXIST OR WHERE SUBSTANTIAL SETTLEMENT OF EITHER THE PIPING, THE BUILDING OR ADJACENT WALKS, PLANTERS, ETC., MAY OCCUR, THE CONTRACTOR SHALL PROVIDE ADEQUATE UNDERSLAB STAINLESS STEEL PIPE HANGERS OR APPROVED OTHER SUPPORT.
9. ALL PIPE SLEEVES SHALL BE PROPERLY SEALED AND INSULATED TO PREVENT HEAT LOSS AND SEEPAGE.
10. ALL PIPE INSULATION SHALL BE PROTECTED FROM DAMAGE FROM PIPE HANGERS. PROTECTION SHALL BE LIGHT GAUGE GALVANIZED STEEL OR EQUAL.
11. ALL PENETRATIONS OF FIRE–RATED WALLS SHALL BE FIRESTOPPED WITH AN APPROVED AND LISTED FIRESTOPPING SYSTEM.
12. MINIMUM PIPING INSULATION THICKNESS HEATING AND HOT–WATER SYSTEMS (STEAM, STEAM CONDENSATE, HOT–WATER HEATING AND DOMESTIC WATER SYSTEMS). PLEASE REFER TO THE LATEST EDITION OF IECC FOR MINIMUM PIPE INSULATION THICKNESS (TABLE C403.12.3)

| PIPING | MINIMUM INSULATION THICKNESS (IN INCHES) PER NOMINAL PIPE OR TUBE SIZE | | | | |
|---|---|---|---|---|---|
| NOMINAL PIPE SIZE | <1 | 1 TO 1.5 | 1.5 TO <4 | 4 TO <8 | ≥8 |
| DOMESTIC COLD WATER (40°F TO 60°F) | 0.5 | 0.5 | 1.0 | 1.0 | 1.0 |
| TEMPERATE HOT WATER (105°F TO 140°F) | 1.0 | 1.0 | 1.5 | 1.5 | 1.5 |
| HOT WATER (141°F TO 200°F) | 1.5 | 1.5 | 2.0 | 2.0 | 2.0 |
| STORM DRAIN (HORIZONTAL) | – | – | 1.0 | 1.0 | 1.0 |

SANITARY AND VENT SYSTEMS:

1. THE BUILDING SANITARY PIPE SHALL BE LOCATED A MINIMUM OF 10 FT. FROM THE INCOMING WATER SERVICE. WHERE A 10 FT. SEPARATION IS NOT POSSIBLE, THE BOTTOM OF THE WATER SERVICE PIPE SHALL BE A MINIMUM OF 12 IN. ABOVE THE TOP OF THE HIGHEST POINT OF THE SANITARY PIPE.
2. ALL SANITARY AND VENT PIPE SHALL BE PVC TYPE DWV, ABS OR CAST–IRON WHERE REQUIRED BY CODE.
3. ALL HORIZONTAL SANITARY PIPE SHALL BE INSTALLED WITH A MINIMUM PITCH AS FOLLOWS:

| PIPE SIZE | MIN. SLOPE |
|---|---|
| 2½" OR LESS | ¼" PER FT. |
| 3" TO 6" | ⅛" PER FT. |
| 8" OR LARGER | ⅛" PER FT. (MIN) |

4. CLEANOUTS SHALL BE INSTALLED IN ALL HORIZONTAL DRAINAGE PIPE AND SHALL BE LOCATED NOT MORE THAN 100 FT. APART. (UNLESS OTHERWISE DICTATED BY LOCAL CODES).
5. CLEANOUTS SHALL BE INSTALLED AT ALL CHANGES OF DIRECTION GREATER THAN 45 DEGREES. WHERE MORE THAN ONE CHANGE OF DIRECTION OCCURS IN A SINGLE PIPE RUN, ONLY ONE (1) CLEANOUT SHALL BE REQUIRED FOR EVERY 40 FEET OF DEVELOPED LENGTH.
6. CLEANOUTS SHALL BE INSTALLED ON PIPES PRIOR TO ANY SLAB PENETRATION.
7. WHERE PIPING IS LOCATED WITHIN WALL CAVITIES, ACCESS TO THE CLEANOUTS SHALL BE PROVIDED.
8. CLEANOUTS ON 6–IN. AND SMALLER PIPES SHALL BE PROVIDED WITH A CLEARANCE OF NOT LESS THAN 18 IN. CLEANOUTS ON 8–IN. AND LARGER PIPE SHALL BE PROVIDED WITH A CLEARANCE OF NOT LESS THAN 36 IN.
9. ALL SUSPENDED SANITARY AND VENT PIPE SHALL BE SUPPORTED AS FOLLOWS:

| MATERIAL | MAX. HORIZ. SPACING | MAX. VERT. SPACING |
|---|---|---|
| ABS | 4 FT. | 10 FT. |
| PVC (TYPE DWV) | 4 FT. | 10 FT. |
| CAST–IRON (<10 FT. PIPE SECTIONS) | 5 FT. | 15 FT. |
| CAST–IRON (10 FT. PIPE SECTIONS) | 10 FT. | 15 FT. |

10. ALL PLUMBING FIXTURES SHALL BE VENTED AND THE MAXIMUM DISTANCE FROM THE FIXTURE TRAP TO THE VENT SHALL BE AS FOLLOWS:

| TRAP SIZE | SLOPE | DISTANCE |
|---|---|---|
| 1¼" | ¼" PER FT. | 2'–6" |
| 1½" | ¼" PER FT. | 3'–6" |
| 2" | ¼" PER FT. | 5'–0" |
| 3" | ⅛" PER FT. | 6'–0" |
| 4" & LARGER | ⅛" PER FT. | 10'–0" |

11. ALL PLUMBING VENTS THROUGH THE ROOF SHALL TERMINATE A MINIMUM OF 12 INCHES ABOVE THE ROOF AND SHALL BE LOCATED A MINIMUM OF 8 FT. FROM ANY PARAPET WALL. WHERE A VENT TERMINATES WITHIN 8 FT. OF A PARAPET WALL, THE VENT SHALL TERMINATE A MINIMUM OF 6 INCHES ABOVE THE PARAPET.
12. ALL PLUMBING VENTS SHALL TERMINATE A MINIMUM OF 10 FT. HORIZONTALLY FROM ANY OUTDOOR AIR INTAKE. WHERE A PLUMBING VENT IS LOCATED WITHIN 10 FT. OF AN INTAKE, THE VENT SHALL TERMINATE A MINIMUM OF 2 FT. ABOVE THE INTAKE.
13. ALL SIDE WALL VENT TERMINATIONS SHALL BE PROTECTED TO PREVENT BIRDS OR RODENTS FROM ENTERING OR BLOCKING THE VENT OPENING.
14. ALL FLOOR DRAINS THAT DO NOT SERVE EQUIPMENT SHALL BE PROTECTED AGAINST DRYING OUT EITHER THROUGH THE INSTALLATION OF A TRAP PRIMER, DEEP SEAL TRAP OR PROSET TRAP GUARD. ALL TRAPS SHALL BE FILLED WITH AN INITIAL LAYER OF COOKING OIL.
15. ALL APPLIANCES SHALL DRAIN TO AN APPROVED SANITARY WASTE RECEPTOR (FLOOR SINK OR FLOOR DRAIN WITH FUNNEL). INDIRECT DRAINAGE FROM AN APPLIANCE SHALL MAINTAIN AN AIR GAP BETWEEN THE PIPE OUTLET AND THE TOP OF THE RECEPTOR. THE MINIMUM DISTANCE BETWEEN THE PIPE OUTLET AND THE TOP OF THE RECEPTOR SHALL BE TWICE THE DIAMETER OF THE APPLIANCE DRAIN PIPE.

GREASE INTERCEPTORS:

1. SEE SITE PLAN FOR THE SIZE AND LOCATION OF THE GREASE INTERCEPTOR.
2. THE GREASE INTERCEPTOR SHALL BE INSTALLED IN A LOCATION THAT IS ACCESSIBLE FOR PUMPING.
3. PRECAST CONCRETE INTERCEPTORS SHALL BE CAPABLE OF 5,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS, SHALL BE REINFORCED WITH BAR OR WIRE MESH AND SHALL BE COATED WITH A MINIMUM OF TWO (2) LAYERS OF NOVOLAC EPOXY ON THE INTERIOR. NOVOLAC EPOXY SHALL BE SHERWIN–WILLIAMS NOVA–PLATE UHS (OR EQUAL).
4. THE GREASE INTERCEPTOR SHALL BE VENTED IN ACCORDANCE WITH THE LOCAL CODE OR THE MANUFACTURER'S REQUIREMENTS.
5. ACCESS TO THE GREASE INTERCEPTOR SHALL BE PROVIDED WITH THREE (3) 24–IN. MANHOLES. COVER SHALL PROVIDE WATER/GAS–TIGHT SEAL AND HAVE A MINIMUM 16,000 LBS. LOAD CAPACITY. ALL SURFACE WATER MUST DRAIN AWAY FROM MANHOLES.
6. PIPING INLET AND OUTLET SIDES SHALL BE CLEARLY LABELED ON THE TOP OF THE GREASE INTERCEPTOR TO INSURE PROPER INSTALLATION.

DOMESTIC SUPPLY SYSTEMS:

1. THE INCOMING WATER SERVICE PIPE SHALL BE LOCATED A MINIMUM OF 10 FT. FROM THE EXITING SANITARY PIPE. WHERE A 10 FT. SEPARATION IS NOT POSSIBLE, THE BOTTOM OF THE WATER SERVICE PIPE SHALL BE A MINIMUM OF 12 IN. ABOVE THE TOP OF THE HIGHEST POINT OF THE SANITARY PIPE.
2. ALL UNDERGROUND SITE PLUMBING SHALL CONFORM TO NSF 61, SHALL BE TYPE K COPPER TUBING OR COPPER PIPE, POLYETHYLENE (PE), PEX OR CPVC. IF CPVC IS USED, FOAM INSULATION SHALL BE INSTALLED AT ALL CHANGES OF DIRECTION TO ACCOUNT FOR EXPANSION AND CONTRACTION.
3. INCOMING DOMESTIC WATER SIZE TO BE 2" INNER DIAMETER. FOR PROJECTS WISHING TO DOWNSIZE, A HYDRANT FLOW TEST IS REQUIRED PRIOR TO CONSTRUCTION DOCUMENTS. ENGINEER OF RECORD TO SUBMIT PRESSURE DROP CALCULATIONS AND HYDRANT FLOW TEST TO USRD FOR REVIEW AND APPROVAL OF SMALLER INCOMING DOMESTIC WATER LINE.
4. IF PEX PIPING IS USED, ALL MAINS SHALL BE UPSIZED BY 0.5" DIAMETER.
5. INCOMING WATER SERVICE PRESSURE SHOULD BE BETWEEN 50 AND 55 PSI STATIC. WHERE WATER PRESSURE SERVICE EXCEEDS 80 PSI STATIC, AN APPROVED WATER–PRESSURE REDUCING VALVE WITH STRAINER CONFORMING TO ASSE 1003 SHALL BE INSTALLED. WHERE INCOMING WATER PRESSURE IS BELOW 50 PSI STATIC, A PRESSURE BOOSTER SYSTEM SHALL BE INSTALLED.
6. IF THE RESTAURANT HAS A COMBINED WATER AND FIRE SPRINKLER SERVICE, THE INCOMING WATER SERVICE SHALL BE SIZED BASED ON THE FIRE SPRINKLER CONTRACTOR'S HYDRAULIC CALCULATIONS.
7. PROVIDE A MINIMUM ½" ANNULAR CLEARANCE AROUND ALL PIPE SLAB PENETRATIONS.
8. A REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER (RPZ) SHALL BE INSTALLED AT THE INCOMING SERVICE WHERE REQUIRED BY CODE. (MIN. 60" A.F.F.)
9. AN EXPANSION TANK SHALL BE INSTALLED ON THE COLD WATER LINE INLET TO THE WATER HEATER. SEE EXPANSION TANK SCHEDULE.
10. ALL WATER SUPPLY PIPE WITHIN 5 FT. OF THE BUILDING AND INSIDE THE BUILDING SHALL COMPLY WITH NSF 61 AND SHALL BE TYPE L COPPER TUBING, COPPER PIPE, PEX OR CPVC PIPE.
11. CPVC PIPE SHALL BE FLOWGUARD GOLD OR FLOWGUARD BENDABLE AS MANUFACTURED BY LUBRIZOL.
12. CPVC PIPE SHALL BE CONNECTED WITH FLOWGUARD GOLD YELLOW LOW–VOC SOLVENT CEMENT AS MANUFACTURED BY IPS WELD–ON OR OATEY.
13. ALL CPVC PIPE SHALL BE INSULATED TO PREVENT EXPOSURE TO GREASE.
14. ALL SUSPENDED PIPE SHALL BE SUPPORTED AS FOLLOWS:

| MATERIAL | MAX. HORIZ. SPACING | MAX. VERT. SPACING |
|---|---|---|
| COPPER PIPE | 12 FT. | 10 FT. |
| COPPER TUBING ≤1¼" | 6 FT. | 10 FT. |
| COPPER TUBING >1¼" | 10 FT. | 10 FT. |
| CPVC ≤1" | 3 FT. | 10 FT. |
| CPVC ≥1¼" | 4 FT. | 10 FT. |
| PEX ≤1" | 3 FT. | 10 FT. |
| PEX ≥1¼" | 4 FT. | 10 FT. |

15. A REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER (RPZ) SHALL BE INSTALLED AT THE INLET TO THE WATER FILTRATION SYSTEM. ALL PIPING DOWNSTREAM OF THE RPZ SHALL BE COPPER OR CROSS–LINKED POLYETHYLENE (PEX).
16. ALL DEVICES, APPLIANCES, AND APPARATUS INTENDED TO SERVE SOME SPECIAL FUNCTION (EX.: SODA MACHINE, COFFEE MACHINE, BEVERAGE DISPENSERS, ETC.) SHALL BE PROVIDED WITH PROTECTION AGAINST BACKFLOW AND CONTAMINATION OF THE WATER SUPPLY SYSTEM. ALL BACKFLOW PREVENTION DEVICES SHALL BE ASSE LISTED AND APPROVED FOR THE DEVICE OR APPLIANCE THEY SERVE.
17. ALL WATER SUPPLY LINES SHALL BE PROVIDED WITH A QUARTER–TURN SHUT–OFF VALVE BEFORE FINAL CONNECTION TO EQUIPMENT.
18. QUARTER–TURN SHUT–OFF VALVES SHALL BE INSTALLED UPSTREAM OF ANY INLINE BACKFLOW PREVENTION DEVICE.
19. ALL VALVES AND BACKFLOW PREVENTION DEVICES SHALL BE INSTALLED WITH FITTINGS THAT FACILITATE REMOVAL IN CASE OF FAILURE.
20. ALL OVERHEAD WATER LINES SHALL BE INSULATED PER SCHEDULE THIS SHEET WITH EXTERNAL JACKETED INSULATION AND A MINIMUM INSTALLED R–VALUE OF 3.7.
21. PRIOR TO BUILDING TURNOVER, THE DOMESTIC WATER SUPPLY SYSTEM SHALL BE PURGED OF DELETERIOUS MATERIAL AND DISINFECTED. DISINFECTION SHALL BE DONE IN ACCORDANCE WITH THE LOCAL HEALTH CODE, PLUMBING CODE OR IN ACCORDANCE WITH AWWA C651 OR AWWA C652.

STORM DRAINAGE SYSTEMS:

1. ALL ROOF DRAINS SHALL BE SIZED IN ACCORDANCE WITH LOCAL CODES AND SHALL CONFORM TO ASME A112.21.2M OR A112.3.1.
2. ALL STORM DRAINAGE PIPING SHALL BE ABS, PVC TYPE DWV OR CAST–IRON WHERE REQUIRED BY CODE.
3. ALL SUSPENDED STORM DRAINAGE PIPE SUPPORT REQUIREMENTS SHALL BE THE SAME AS THE SANITARY AND VENT REQUIREMENTS.
4. ALL HORIZONTAL STORM DRAINAGE PIPE PITCH REQUIREMENTS SHALL BE THE SAME AS THE SANITARY AND VENT REQUIREMENTS.
5. ALL HORIZONTAL STORM DRAINAGE PIPE SHALL BE INSULATED WITH 1" THICK EXTERNAL JACKETED INSULATION AND A MINIMUM INSTALLED R–VALUE OF 3.7 TO PROTECT AGAINST CONDENSATION.
6. CLEANOUTS SHALL BE INSTALLED IN ALL HORIZONTAL DRAINAGE PIPE AND SHALL BE LOCATED NOT MORE THAN 100 FT. APART.
7. CLEANOUTS SHALL BE INSTALLED AT ALL CHANGES OF DIRECTION GREATER THAN 45 DEGREES. WHERE MORE THAN ONE CHANGE OF DIRECTION OCCURS IN A SINGLE PIPE RUN, ONLY ONE (1) CLEANOUT SHALL BE REQUIRED FOR EVERY 40 FEET OF DEVELOPED LENGTH.
8. CLEANOUTS SHALL BE INSTALLED ON PIPES PRIOR TO ANY SLAB PENETRATION.
9. WHERE PIPING IS LOCATED WITHIN WALL CAVITIES, ACCESS TO THE CLEANOUTS SHALL BE PROVIDED.
10. ROOF DRAINS AND OVERFLOW ROOF DRAINS SHALL BE PIPED INDEPENDENTLY. OVERFLOW ROOF DRAINS SHALL NOT BE CONNECTED TO THE PRIMARY ROOF DRAINAGE SYSTEM.

## LEGEND

| | |
|---|---|
| | COLD WATER PIPING |
| | TEMPERED WATER PIPING (110°F) |
| | HOT WATER PIPING (140°F) |
| | RECIRCULATED HOT WATER PIPING |
| | OVERHEAD LINES (BY P.C.) |
| SAN | UNDERGROUND SANITARY PIPING |
| GW | UNDERGROUND GREASE WASTE PIPING |
| | VENT PIPING |
| STS | ABOVE GROUND STORM PIPING |
| STS | UNDERGROUND STORM PIPING |
| SD | CONDENSATE DRAIN |
| | HOSE BIBB |
| | CHECK VALVE |
| | BALL VALVE |
| | THERMOSTATIC MIXING VALVE |
| | FLOOR DRAIN |
| | CLEAN–OUT (FLOOR OR YARD) |
| | FLOOR SINK |
| | PRESSURE GUAGE |
| L | LOW PRESSURE SWITCH |
| H | HIGH PRESSURE SWITCH |
| S | SOLENOID VALVE |
| | THREE–WAY VALVE |
| | PRESSURE REGULATOR |
| | DUAL CHECK VALVE OR RPZ |
| | DUAL CHECK VALVE WITH ATMOSPHERIC VENT |
| | STRAINER |
| | RELIEF VENT |
| | WATER–HAMMER ARRESTER |

## ABBREVIATIONS

| | |
|---|---|
| ACM | AREA CONSTRUCTION MANAGER |
| AVB | ATMOSPHERIC VACUUM BREAKER |
| BSI | BEVERAGE SYSTEM INSTALLER |
| CO | CLEAN–OUT |
| CD | CONDENSATE DRAIN |
| DC | DOWNSPOUT COVER |
| DFU | DRAINAGE FIXTURE UNIT(S) |
| EC | ELECTRICAL CONTRACTOR |
| FAC | FIRE ALARM CONTRACTOR |
| FCO | FLOOR CLEAN–OUT |
| FD | FLOOR DRAIN |
| FPC | FIRE PROTECTION CONTRACTOR |
| FS | FLOOR SINK |
| GC | GENERAL CONTRACTOR |
| GI | GREASE INTERCEPTOR |
| GPF | GALLONS PER FLUSH |
| GPM | GALLONS PER MINUTE |
| GW | GREASE WASTE |
| HS | HAND SINK |
| I.P.S. | IRON PIPE SIZE (ALSO NPS) |
| KEI | KITCHEN EQUIPMENT INSTALLER |
| KES | KITCHEN EQUIPMENT SUPPLIER |
| LAV | LAVATORY |
| MC | MECHANICAL CONTRACTOR |
| MHT | MALE HOSE THREADS |
| MS | MOP SINK |
| NPS | NATIONAL PIPE THREAD STANDARD |
| NPT | NATIONAL PIPE THREAD TAPERED |
| O/O | OWNER/OPERATOR |
| OH | OVERHEAD |
| P | PUMP |
| PC | PLUMBING CONTRACTOR |
| RC | REFRIGERATION CONTRACTOR |
| RPZ | REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER |
| SS | SANITARY SEWER |
| ST<br>STS | STORM SEWER (PRIMARY)<br>STORM SEWER (SECONDARY) |
| SVB | ANTI–SIPHON, SPILL RESISTANT VACUUM BREAKER |
| TAB | TEST AND BALANACE CONTRACTOR |
| UG | UNDERGROUND |
| UR | URINAL |
| V | VENT |
| WC | WATER CLOSET |
| WCO | WALL CLEAN–OUT |
| WSFU | WATER SUPPLY FIXTURE UNIT(S) |

| REV | DATE | DESCRIPTION |
|---|---|---|
| | | |

DATE: .....

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| DRAWN BY | REVIEWED BY |
|---|---|
| – | GA |
| STD ISSUE DATE | DATE ISSUED |
| 2023 11 | 9/6/2024 |

TITLE: 2024 STANDARD BUILDING – BB20
4584–WOOD/WOOD
DESCRIPTION: WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & CI
WOOD TRUSS ROOF FRAMING
BRICK/ ALPOLIC PANEL
MSN: 10721
SITE ADDRESS: 102 W CORNELIUS HARNETT BLVD
LILLINGTON, NC
L/C: 032–0312

SHEET NO.: P4.0
032–0312.00.0
GENERAL NOTES

PROJECT No. 60734777 Task: 032–0312

# COORDINATION SCHEDULE

| GENERAL REQUIREMENTS | FURNISH | INSTALL | FINAL CONNECTION | NOTES |
|---|---|---|---|---|
| MECHANICAL PERMIT | MC | | | 1–3 |
| HOT WORK (WELDING) PERMIT (IF APPLICABLE) | MC | | | 1–3 |
| REFRIGERATION PERMIT (IF APPLICABLE) | KES | | | 1–3 |
| PLUMBING PERMIT | PC | | | 1–3 |
| ELECTRICAL PERMIT | EC | | | 1–3 |
| FIRE SPRINKLER PERMIT (IF APPLICABLE) | FPC | | | 1–3 |
| FIRE ALARM PERMIT (IF APPLICABLE) | FAC | | | 1–3 |
| **CONTRACTOR COORDINATION REQUIREMENTS** | | | | |
| HEATING & AIR–CONDITIONING | | | | |
| ROOFTOP UNITS, INTAKE AND RELIEF | MCD CP | MC | | 1–5, 17, 22 |
| ROOF CURBS | MCD CP | MC | | 1–3, 20, 22 |
| GAS PIPING AND GAS PIPE KIT | PC | PC | PC | 1–3, 14, 22–23 |
| CONTROLS WIRING | MC | EC | EC | 1–3, 19, 22, 24 |
| POWER WIRING | EC | EC | EC | 1–3, 19, 22, 24 |
| CONDENSATE TRAP | MC | PC | | 1–3, 22–23 |
| CONDENSATE PIPING (IF APPLICABLE) | PC | PC | | 1–3, 22–23 |
| DUCT–MOUNTED SMOKE DETECTOR | MC | MC | EC | 1–3, 22, 24 |
| GENERAL EXHAUST SYSTEMS | | | | |
| EXHAUST FANS | MCD CP | MC | | 1–3, 17, 22 |
| ROOF CURBS | MCD CP | MC | | 1–3, 22 |
| CONTROLS (WHERE APPLICABLE) | MC | EC | EC | 1–3, 22, 24 |
| POWER WIRING | EC | EC | EC | 1–3, 22, 24 |
| TEMPERATURE CONTROLS | | | | |
| BUILDING AUTOMATION SYSTEM | MCD CP | MC | EC | 1–3, 22, 24 |
| REMOTE SENSORS (RH AND/OR TEMPERATURE) | MC | MC | EC | 1–3, 22, 24 |
| CONTROLS WIRING (WHERE APPLICABLE) | MC | EC | EC | 1–3, 22, 24 |
| POWER WIRING | EC | EC | EC | 1–3, 22, 24 |
| DUCTWORK AND ACCESSORIES | | | | |
| GALVANIZED SHEET METAL DUCTWORK | MC | MC | | 1–3, 22 |
| EXTERNAL INSULATION | MC | MC | | 1–3, 22 |
| INTERNAL INSULATION (IF APPLICABLE) | MC | MC | | 1–3, 22 |
| WEATHERPROOFING (IF APPLICABLE) | MC | MC | | 1–3, 22 |
| SPIN–IN COLLARS | MC | MC | | 1–3, 22 |
| FLEXIBLE DUCTWORK | MC | MC | | 1–3, 22 |
| VOLUME/BALANCING DAMPERS | MC | MC | | 1–3, 22 |
| FIRE DAMPERS (IF APPLICABLE) | MC | MC | | 1–3, 22 |
| FIRESTOPPING (IF APPLICABLE) | MC | MC | | 1–3, 22 |
| AIR DEVICES AND ACCESSORIES | MC | MC | MC | 1–3, 7, 22, 28 |
| PLUMBING SYSTEMS | | | | |
| WATER HEATERS | MCD CP | PC | PC | 1–3, 11–12, 23 |
| HOT AND COLD WATER PIPE | PC | PC | PC | 1–3, 23 |
| VENTS AND INTAKES | PC | PC | PC | 1–3, 23 |
| THERMOSTATIC MIXING VALVE | PC | PC | PC | 1–3, 23 |
| POWER AND CONTROL WIRING | EC | EC | EC | 1–3, 23–24 |
| KITCHEN EXHAUST SYSTEMS | | | | |
| McDONALD'S BACKSHELF EXHAUST HOODS | KES | KEI | | 1–3, 6, 22, 27 |
| CANOPY EXHAUST HOODS (IF APPLICABLE) | KES | KEI | | 1–3, 6, 22, 27 |
| BLACK IRON DUCTWORK | KES | KEI | | 1–3, 6, 22 |
| STAINLESS STEEL DUCTWORK (IF APPLICABLE) | KES | KEI | | 1–3, 6, 22 |
| ALUMINUM DUCTWORK (IF APPLICABLE) | KES | KEI | | 1–3, 6, 22 |
| UL LISTED DUCT WRAP | MC | MC | | 1–3, 6, 22 |
| FIRE–RATED DUCT ENCLOSURE (IF APPLICABLE) | GC | GC | | 1–3, 6, 20, 22 |
| EXHAUST FANS | MCD CP | MC | | 1–3, 6, 17, 22 |
| ROOF CURBS | MCD CP | MC | | 1–3, 6, 20, 22 |
| CURB EXTENSIONS | MC | MC | | 1–3, 6, 22 |
| CONTROLS (WHERE APPLICABLE) | EC | EC | EC | 1–3, 6, 22, 24 |
| POWER WIRING | EC | EC | EC | 1–3, 6, 22, 24 |
| FIRE SUPPRESSION SYSTEM | KES | KES | KES | 1–3, 16, 22, 27 |
| KITCHEN EQUIPMENT | | | | |
| COOLER/FREEZER | KES | GC | | 1–3, 27 |
| EVAPORATOR COILS | KES | MC | | 1–3, 27 |
| CONDENSATE PIPING | PC | PC | PC | 1–3, 23, 27 |
| REMOTE CONDENSING UNIT (MAC) | KES | MC | | 1–3, 22, 27 |
| ROOF CURBS | MC | MC | | 1–3, 22 |
| REFRIGERANT PIPING | KES | MC | MC | 1–3, 22, 27 |
| POWER WIRING | EC | EC | EC | 1–3, 22, 24, 27 |
| CONTROL WIRING | EC | EC | EC | 1–3, 24, 27 |
| PIPE PORTALS | MC | MC | | 1–3, 22 |
| ICE MACHINES | KES | KEI | | 1–3, 27 |
| WATER SUPPLY PIPING | KES | KEI | BSI | 1–3, 27 |
| REMOTE CONDENSING UNITS | KES | MC | | 1–3, 22, 27 |
| ROOF CURBS | MC | MC | | 1–3, 22, 27 |
| REFRIGERANT PIPING | KES | MC | MC | 1–3, 22, 27 |
| POWER WIRING | EC | EC | EC | 1–3, 22, 24, 27 |
| CONTROL WIRING | KES | EC | EC | 1–3, 24, 27 |
| PIPE PORTALS | MC | MC | | 1–3, 22 |
| GRILLS | KES | KES | | 1–3, 27 |
| GAS PIPING (IF APPLICABLE) | PC | PC | PC | 1–3, 23, 27 |
| POWER WIRING | EC | EC | EC | 1–3, 24, 27 |
| CONTROL CABLE (6' CLAMSHELL ONLY) | MC | EC | EC | 1–3, 23, 24, 27 |
| FRYERS | KES | KES | | 1–3, 27 |
| GAS PIPING (IF APPLICABLE) | PC | PC | PC | 1–3, 23, 27 |
| POWER WIRING | EC | EC | EC | 1–3, 24, 27 |
| 3–COMPARTMENT SINK | KES | KES | | 1–3, 12, 27 |
| FAUCETS AND PRE–RINSE SPRAYER | KES | KES | | 1–3, 27 |
| WATER SUPPLY PIPING | PC | PC | PC | 1–3, 23, 27 |
| SANITARY DRAIN PIPING | PC | PC | PC | 1–3, 23, 27 |
| HAND SINKS | MCD CP | PC | | 1–3, 23, 27 |
| FAUCET | MCD CP | PC | | 1–3, 23, 27 |
| WATER SUPPLY PIPING | PC | PC | PC | 1–3, 23, 27 |
| SANITARY DRAIN PIPING | PC | PC | PC | 1–3, 23, 27 |
| VEGETABLE SINK | KES | KES | | 1–3, 23, 27 |
| FAUCET | KES | KES | | 1–3, 23, 27 |
| WATER SUPPLY PIPING | PC | PC | PC | 1–3, 23, 27 |
| SANITARY DRAIN PIPING | PC | PC | PC | 1–3, 23, 27 |
| WASHING MACHINE | KES | KES | | 1–3, 23, 27 |
| WATER SUPPLY PIPING | PC | PC | PC | 1–3, 23, 27 |
| SANITARY DRAIN PIPING | PC | PC | PC | 1–3, 23, 27 |
| WARE WASHER | KES | KES | | 1–3, 23, 27 |
| WATER SUPPLY PIPING | PC | PC | PC | 1–3, 23, 27 |
| SANITARY DRAIN PIPING | PC | PC | PC | 1–3, 23, 27 |
| MISCELLANEOUS ITEMS | | | | |
| FIRE SPINKLER SYSTEMS | FPC | FPC | FPC | 1–3, 15, 25 |
| HVAC EQUIPMENT START–UP | MC | | | 1–3, 22 |
| TEST, ADJUST AND BALANCE HVAC SYSTEMS | TAB | | | 1–3, 22 |
| DOOR GRILLES (IF APPLICABLE) | MC | GC | | 1–3, 20, 22 |
| ROOF/WALL OPENINGS | GC | | | 1–3, 20–24 |
| APPLIANCE BACKFLOW PREVENTION | KES/BSI | PC | PC | 1–3, 23, 27 |
| CO2 DETECTION SYSTEM | KES/BSI | EC/BSI | EC/BSI | 1–3, 22, 27 |

NOTES:
1. THIS SCHEDULE IS INTENDED AS A GUIDE FOR THE WORK TO BE PERFORMED. ALL WORK SHALL BE COORDINATED BETWEEN THE McDONALD'S AREA CONSTRUCTION MANAGER AND ALL GC AND O/O SUBCONTRACTORS.
2. ONE (1) COPY OF THE DECOR PACKAGE DRAWINGS SHALL BE SUPPLIED TO THE GENERAL CONTRACTOR AND EACH OF THE SUBCONTRACTORS. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND THE SUBCONTRACTORS TO INSURE THAT THEY HAVE RECEIVED THE DECOR PACKAGE DRAWINGS.
3. FOR ANY WORK NOT CLARIFIED IN THIS SCHEDULE OR IN THE NOTES AND SPECIFICATIONS, PLEASE CONSULT THE McDONALD'S CONSTRUCTION MANAGER FOR SCOPE OF WORK.
4. ALL ROOFTOP UNIT EQUIPMENT SUPPLIED BY THE MECHANICAL CONTRACTOR AND THE KITCHEN EQUIPMENT SUPPLIER SHALL BE ON SITE AT THE SAME TIME FOR A SINGLE CRANE LIFT. EQUIPMENT SITE ARRIVAL DATE SHALL BE COORDINATED BETWEEN THE CONSTRUCTION MANAGER, MECHANICAL CONTRACTOR AND KITCHEN EQUIPMENT SUPPLIER.
5. ALL ROOFTOP UNITS INSTALLED IN McDONALD'S RESTAURANTS SHALL BE HIGH EFFICIENCY EQUIPMENT. THE INSTALLATION OF STANDARD EFFICIENCY ROOFTOP UNITS IS PROHIBITED. PLEASE REFER TO THE LATEST EDITION OF IECC FOR HVAC EQUIPMENT PERFORMANCE REQUIREMENTS.
6. ALL KITCHEN EQUIPMENT REQUIRING EXHAUST SHALL BE INSTALLED IN ACCORDANCE WITH THESE PLANS. ANY VARIATION FROM THESE PLANS SHALL BE REPORTED TO THE CONSTRUCTION MANAGER AND THE ENGINEER–OF–RECORD.
7. WHERE GYPSUM BOARD CEILINGS ARE INSTALLED, THE MECHANICAL CONTRACTOR SHALL SUPPLY DRYWALL MOUNTING FRAMES FOR LAY–IN TYPE DIFFUSERS.
8. ALL WORK SHOWN ON P1.6 DRAWING(S) SHALL BE COMPLETED BY THE BEVERAGE SYSTEM INSTALLER (OR K.E.S.) UNLESS OTHERWISE NOTED IN THE PLUMBING DRAWINGS.
9. ALL WORK ON P1.0 & P1.2 DRAWING(S) SHALL BE BY THE PLUMBING CONTRACTOR.
10. THE BEVERAGE SYSTEM INSTALLER FURNISHES, RUNS AND CONNECTS ALL FLEXIBLE WATER AND SYRUP LINES FOR ALL AFFECTED EQUIPMENT INCLUDING THE FOLLOWING:
    A. HOT CHOCOLATE
    B. COFFEE BREWER
    C. ICE MACHINE
    D. O.J.
    E. SODA TOWERS
11. ALL WATER HEATERS INSTALLED IN McDONALD'S RESTAURANTS SHALL BE HIGH EFFICIENCY SEALED–COMBUSTION WATER HEATERS. THE INSTALLATION OF STANDARD EFFICIENCY GRAVITY–VENTED WATER HEATERS IS PROHIBITED. PLEASE REFER TO THE LATEST EDITION OF IECC FOR SERVICE WATER–HEATING EQUIPMENT PERFORMANCE EFFICIENCY REQUIREMENTS.
12. THE CONSTRUCTION MANAGER, PLUMBING CONTRACTOR AND KITCHEN EQUIPMENT SUPPLIER SHALL COORDINATE WHICH SOILED DISHWASHER (3–COMPARTMENT SINK) IS BEING INSTALLED IN THE RESTAURANT.
13. ALL GAS PIPING FOR COOKING EQUIPMENT SHALL TERMINATE IN THE CEILING PRIOR TO THE INSTALLATION OF THE PIPING CHASE. UPON INSTALLATION OF THE CHASE, THE GAS PIPING SHALL THEN BE CONTINUED IN THE CHASE FOR FINAL CONNECTION TO THE APPLIANCE.
14. ALL GAS PIPING FOR ROOFTOP EQUIPMENT SHALL BE BROUGHT UP THROUGH THE BASE OF THE UNIT TO MINIMIZE ROOF PENETRATIONS. WHERE THIS IS NOT POSSIBLE, THE PLUMBING CONTRACTOR SHALL PROVIDE THE NECESSARY PIPE PORTALS ON ROOF.
15. ALL FIRE PROTECTION DRAWINGS CONTAINED WITHIN THIS SET ARE STRICTLY FOR REFERENCE ONLY. FIRE SPRINKLER DRAWINGS SHALL BE DESIGNED AND PERMITTED BY A FIRE PROTECTION CONTRACTOR.
16. ALL R–102 WET CHEMICAL FIRE SUPPRESSION SYSTEMS FOR TYPE I HOODS SHALL BE DESIGNED AND INSTALLED BY A LOCAL ANSUL AGENT. THE USE OF DRY CHEMICAL SYSTEMS IS PROHIBITED. THE LOCAL ANSUL AGENT CONTRACT IS HANDLED THROUGH THE KITCHEN EQUIPMENT SUPPLIER.
17. ALL ROOFTOP UNITS AND EXHAUST FANS ARE SUPPLIED WITH A FACTORY–INSTALLED DISCONNECT SWITCH.
18. ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT SWITCHES FOR REMOTE CONDENSING UNITS.
19. ALL ELECTRICAL CONDUITS FOR ROOFTOP EQUIPMENT SHALL BE BROUGHT UP THROUGH THE BASE OF THE UNIT TO MINIMIZE ROOF PENETRATIONS. WHERE THIS IS NOT POSSIBLE, THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE NECESSARY PIPE PORTALS ON ROOF.
20. WALK–IN COOLER AND WALK–IN FREEZER REFRIGERATION SYSTEMS SHALL MEET THE PERFORMANCE REQUIREMENTS OUTLINED IN THE LATEST EDITION OF IECC. MINIMUM ANNUAL WALK–IN ENERGY FACTOR (AWEF) PROVIDED BY EQUIPMENT MANUFACTURER IS DETERMINED IN ACCORDANCE WITH AHRI 1250.
21. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
22. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
23. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
24. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
25. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
26. SEE FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.
27. SEE FIRE ALARM DRAWINGS FOR ADDITIONAL INFORMATION.
28. SEE KITCHEN DRAWINGS FOR ADDITIONAL INFORMATION.
29. SEE DECOR DRAWINGS FOR ADDITIONAL INFORMATION.

# PUMP SCHEDULE

| TAG | MANUFACTURER | MODEL | HP | V | Ø | Hz | ACCESSORIES |
|---|---|---|---|---|---|---|---|
| P–1 | GRUNDFOS | UP 15–18 B7 | 1/25 | 120 | 1 | 60 | 1–3 |

ACCESSORIES:
1. TIMECLOCK
2. AQUASTAT
3. CHECK VALVE

NOTES:
1. SEE ELECTRICAL DRAWINGS FOR TIMECLOCK WIRING
2. DESIGN: 2 GPM, 7 FT. HEAD
3. SEE DETAIL 6 ON DRAWING P3.0

# EXPANSION TANK SCHEDULE

| TAG | MANUFACTURER | MODEL | TOTAL VOL. | CONNECTION | ACCESSORIES |
|---|---|---|---|---|---|
| ET–1 | AMTROL | ST–12 | 4.4 GAL. | ¾" | – |

NOTES:
1. SEE DETAIL 6 ON DRAWING P3.0

# BACKFLOW PREVENTER SCHEDULE

| TYPE | MFR. | MODEL | ASSE LISTING | SERVES | LOCATION |
|---|---|---|---|---|---|
| AG | FURN. WITH CHEM. SYS. | | 1055B | CHEMICAL SYSTEM | DIN. RM.–MOP SINK |
| AG | FURN. WITH CHEM. SYS. | | 1055B | CHEMICAL SYSTEM | KITCHEN–MOP SINK |
| AVB | FURN. WITH CHEM. SYS. | | 1001 | CHEMICAL SYSTEM | SUPP. RM.–3–COMP |
| AVB | FURN. WITH FAUCET | | – | MOP SINK FAUCET | SEE DRAWINGS |
| VB | FURN. WITH HB | | 1011 | WALL HYDRANT | SEE DRAWINGS |
| DCV | FURN. WITH HB | | 1052 | YARD HYDRANT | TRASH CORRAL |
| DCV | FURN. WITH HB | | 1052 | ROOF HYDRANT | ROOF |
| DCV | WATTS | SD–3 | 1022 | SODA TOWERS AND SPEC. COFFEE | |
| RPZ | WILKINS | 975XL–SXL–AG | 1013 | INCOMING WATER | SUPPORT ROOM |
| RPZ | WILKINS | 375XL–AG | 1013 | FILTRATION SYSTEM | SUPPORT ROOM |

# WATER HEATER SCHEDULE

| TAG | MANUFACTURER | MODEL | SIZE GAL. | HEATING TYPE | HEATING MBH | RECOV. 100°F ΔT GPH | ELECTRICAL VOLTS | Ø | Hz | F.L.A. |
|---|---|---|---|---|---|---|---|---|---|---|
| WH–1 | BRADFORD–WHITE | EF–100T–199E–3N | 100 | GAS | 199 | 239 | 120 | 1 | 60 | <20 |
| | RHEEM | GHE100SU/SS–200(A) | 100 | | | 227 | | | | |

ACCESSORIES:
1. CONCENTRIC VENT KIT.

NOTES:
1. MINIMUM THERMAL EFFICIENCY 97%

# VALVE SCHEDULE

| MANUFACTURER | MODEL | TEMP. SETTING | LISTING | SERVES |
|---|---|---|---|---|
| WATTS | LFMMV | 110°F | ASSE 1017,1069,1070 | CHEMICAL SYSTEM MIXING |
| WATTS | LFMMV | 104°F | ASSE 1017,1069,1070 | LAVS & HAND SINKS MIXING |
| ZURN | ZW3870XLT | 104°F | | |
| WATTS | LFUSG–B | 110°F | ASSE 1016, 1070 | VEGETABLE PREP. SINK MIXING |
| B & G | CB–1/2 | – | – | RECIRC. SYSTEM BALANCING VALVE |
| NIBCO | S–FP–600A–LF | – | – | CHEMICAL SYSTEM SHUT–OFF |
| NIBCO | S–FP–600A–LF | – | – | RESTROOM SHUT–OFF |
| NIBCO | S–FP–600A–LF | – | – | COMBI OVEN WATER SHUT OFF |
| WATTS | LFFBV–PEX | – | – | COMBI OVEN RO WATER SHUT OFF |

# INTERCEPTOR SCHEDULE

| TAG | DESCRIPTION | MANUFACTURER | MODEL | ACCESSORIES | NOTES |
|---|---|---|---|---|---|
| GI–1 | EXTERIOR GREASE INTERCEPTOR | ZURN – GREEN TURTLE | PROCEPTOR MODEL GMC1300–UPC | 4" INLET, 4" OUTLET | 1–2, 4 |

NOTES:
1. SEE GREASE INTERCEPTOR NOTES AND ACCESSORIES ON DRAWING P4.0
2. GREASE INTERCEPTOR IS SIZED FOR CITY SEWER APPLICATIONS ONLY. DO NOT USE FOR SEPTIC FIELDS.
3. NOT USED.
4. FOR ZURN PROCEPTOR ORDERING, CONTACT HUGHES SUPPLY, DIRECT LINE: (407) 244–7918, OR E–MAIL: MCDCOORD@HAJOCA.COM

# PLUMBING FIXTURE SCHEDULE

| TAG | DESCRIPTION | MANUFACTURER | MODEL | WATER USE | ACCESSORIES/COMMENTS | |
|---|---|---|---|---|---|---|
| F–1 | FAUCET FOR LAV–1 | SLOAN | SF–2150 | 0.5 GPM (0.08 GAL/10 SEC CYCLE) | FAUCET OPERATION: SENSOR | |
| | | ZURN | Z6950–XL–S–N–10S | | | |
| F–2 | FAUCET FOR MS–1 | ZURN | Z843M4 | | FAUCET OPERATION: MANUAL<br>SEE DETAIL 2 ON DRAWING P3.0 | 5' VINYL HOSE<br>WALL HOOK |
| FCO | 6x6 FLOOR CLEAN OUT | ZURN | Z1400–SZ | | SEE DRAWINGS FOR PIPE SIZES<br>SEE NOTE 8 | |
| | | JAY R. SMITH | 4040 | | | |
| FD–1 | 6x6 FLOOR DRAIN WITH FUNNEL | ZURN | Z415–SZ1 | | PIPE SIZE: 3"<br>STRAINER SIZE: 6" NICKEL BRONZE | FUNNEL: ZURN Z329<br>SEE NOTE 8 |
| | | JAY R. SMITH | 3510–F25 | | | |
| FD–2 | 6x6 FLOOR DRAIN | ZURN | Z415–SZ1 | | PIPE SIZE: 3"<br>STRAINER SIZE: 6" NICKEL BRONZE | FUNNEL: NONE<br>SEE NOTE 8 |
| | | JAY R. SMITH | 2005 | | | |
| FD–3 | 6x6 FLOOR DRAIN WITH FUNNEL | ZURN | Z415–SZ1 | | PIPE SIZE: 4"<br>STRAINER SIZE: 6" NICKEL BRONZE | FUNNEL: ZURN Z329<br>SEE NOTE 8 |
| | | JAY R. SMITH | 3510–F25 | | | |
| FD–4 | 6x6 FLOOR DRAIN | ZURN | Z415–SZ1 | | PIPE SIZE: 4"<br>STRAINER SIZE: 6" NICKEL BRONZE | FUNNEL: NONE<br>SEE NOTE 8 |
| | | JAY R. SMITH | 2005 | | | |
| FS–1 | 12x12 FLOOR SINK WITH HALF–GRATE | ZURN | ZN1901 | | PIPE SIZE: 3"<br>DOME STRAINER: ALUMINUM | GRATE: HALF – NICKEL–BRONZE<br>SEE NOTE 8 |
| | | JAY R. SMITH | 3435 | | | |
| FS–2 | 8x8 FLOOR SINK WITH HALF–GRATE | ZURN | ZN1910 | | PIPE SIZE: 3"<br>DOME STRAINER: ALUMINUM | GRATE: HALF – NICKEL–BRONZE<br>SEE NOTE 8 |
| | | JAY R. SMITH | 3415 | | | |
| FS–3 | 8x8 FLOOR SINK | ZURN | ZN1910 | | PIPE SIZE: 3"<br>DOME STRAINER: ALUMINUM | GRATE: FULL – NICKEL–BRONZE<br>SEE NOTE 8 |
| | | JAY R. SMITH | 3415 | | | |
| HB–1 | WALL HYDRANT | WOODFORD | B65 | | WALL CLAMP: ADJUSTABLE<br>WALL THICKNESS: M/S = 9½"<br>W/W = 13¾" | SEE NOTE 3 |
| | | ZURN | Z1320–EZ | | | |
| | | JAY R. SMITH | 5519 | | | |
| HB–2 | YARD HYDRANT | WOODFORD | S4H | | SEE NOTES 4 & 9 | |
| HB–3 | ROOF HYDRANT | WOODFORD | RHY2–MS | | (NO DRAIN REQUIRED) | |
| HS–1 | STAINLESS STEEL HAND SINK | ADVANCE TABCO | 7–PS–61 | | FAUCET: INCLUDED WITH SINK | SEE NOTES 6 & 10 |
| HS–2 | STAINLESS STEEL HAND SINK – ADA | ADVANCE TABCO | 7–PS–26 | | FAUCET: INCLUDED WITH SINK | SEE NOTES 6 & 10 |
| LAV–1 | LAVATORY | KOHLER | K–2882–0 | | FAUCET: F–1<br>TRUEBRO LAVGUARD2 MODEL #102–E–Z<br>CORIAN COUNTER BY G.C. | SEE NOTE 10<br>SEE DETAIL 3 ON P3.0<br>SEE NOTE 11 |
| | | SLOAN | SS3021 | | | |
| MS–1 | MOP SINK | FIELD FABRICATED | RECESSED – FLOOR (24x24x12) | | FAUCET: F–2<br>INCLUDES HOSE, HOSE BRACKET AND TWO (2) 24"Wx36"H WALL GUARDS<br>SEE DETAIL 2 ON P3.0 | |
| | | ADVANCE TABCO | 9–OP–24FM | | | |
| MS–2 | MOP SINK | FIELD FABRICATED | RECESSED – FLOOR (36x36x12) | | FAUCET: F–2<br>INCLUDES HOSE, HOSE BRACKET AND TWO (2) 36"Wx36"H WALL GUARDS<br>SEE DETAIL 2 ON P3.0 | |
| | | STERN WILLIAMS | HL2000 (36X36X12) | | | |
| TD–1 | TRENCH DRAIN | ZURN | Z886–DGC | | CLASS A STAINLESS STEEL MESH SCREEN GRATE, NO–HUB BOTTOM OUTLET. BOTTOM DOME STRAINER. CLOSED END CAP | |
| UR–1 | ADA WALL–HUNG URINAL | SLOAN | SU–1009 | 0.125 GPF | FLUSH VALVE: SLOAN SOLIS 8186 ZURN ZTR6203–ULF–LL<br>¾" I.P.S., 1" TOP SPUD | FLUSH VALVE OPERATION: SENSOR<br>SEE NOTE 2 |
| | | ZURN | Z5755 | | | |
| | | – | – | | | |
| WB–1 | WALL BOX FOR WASHING MACHINE | SIOUX CHIEF | 696–2313 | | HAMMER ARRESTERS INCLUDED WITH BOX<br>MOUNTING HEIGHT: 12" A.F.F. | SEE NOTE 7 |
| WB–2 | WALL BOX FOR WAREWASHER | SIOUX CHIEF | 687 SERIES | | HAMMER ARRESTER INCLUDED WITH BOX<br>MOUNTING HEIGHT: 12" A.F.F. | SEE NOTE 7 |
| WC–1 | WATER CLOSET | SLOAN | ST–2009 | 1.28 GPF | FLUSH VALVE: SLOAN SOLIS 8111 ZURN ZTR6200EV–LL<br>1" I.P.S., 1½" TOP SPUD | FLUSH VALVE OPERATION: SENSOR<br>SEAT: BEMIS MODEL 2155CT |
| | | ZURN | Z5655 | | | |
| | | – | – | | | |
| WC–2 | ADA WATER CLOSET | SLOAN | ST–2029 ADA | 1.28 GPF | FLUSH VALVE: SLOAN SOLIS 8111 ZURN ZTR6200EV–CC–LL<br>1" I.P.S., 1½" TOP SPUD | FLUSH VALVE OPERATION: SENSOR<br>SEAT: BEMIS MODEL 2155CT |
| | | ZURN | Z5665 | | | |
| | | – | – | | | |
| – | SOILED DISHTABLE (3–COMPARTMENT SINK) | – | – | | ITEM: 151.46 | SEE NOTE 7 |
| – | VEGETABLE PREPARATION SINK | – | – | | ITEM: 134.02 | SEE NOTE 7 |
| – | WAREWASHER | HOBART | AM16SVLT W. DRAIN WATER EN. RECOVERY | | ITEM: 152.05<br>WALL BOX: WB–2 | SEE NOTE 7 |
| – | WASHING MACHINE | – | – | | ITEM: 223.07<br>WALL BOX: WB–1 | SEE NOTE 7 |
| WHA | WATER–HAMMER ARRESTER | SIOUX CHIEF | SERIES 650 | | – | SEE SHEET P1.2 |
| ROOF DRAINS AND ACCESSORIES | | | | | | |
| DC–1 | OVERFLOW DOWNSPOUT COVER | ZURN | Z199–SS | | SEE DRAWINGS FOR PIPE SIZES | SEE NOTE 8 |
| | | JAY R. SMITH | 1770–BS | | BIRD SCREEN | |
| RD–1 THRU RD–4 | COMBINATION MAIN ROOF AND OVERFLOW DRAIN | ZURN | Z165 | | SEE DRAWINGS FOR PIPE SIZES<br>ROOF OPENING: 30"x14" | SEE NOTE 8 |

NOTES:
1. SEE McDONALD'S PROJECT MANUAL FOR ADDITIONAL MANUFACTURERS
2. PLUMBING CONTRACTOR SHALL COORDINATE WITH G.C. TO PROVIDE BLOCKING FOR PROPER URINAL SUPPORT
3. PLUMBING CONTRACTOR SHALL COORDINATE WITH G.C. TO PROVIDE INTERIOR BLOCKING ON W/W BUILDING FOR WALL CLAMP
4. YARD HYDRANT IS FOR TRASH CORRAL – SEE SITE PLAN FOR LOCATION
5. PLUMBING CONTRACTOR SHALL ROUTE ⅛" DRAIN PIPE FROM HOSE BIBB TO NEAREST FLOOR DRAIN OR FLOOR SINK
6. PLUMBING CONTRACTOR SHALL COORDINATE WITH G.C. TO PROVIDE BLOCKING FOR PROPER SINK SUPPORT
7. SEE KITCHEN DRAWINGS FOR ADDITIONAL INFORMATION – PLUMBING CONTRACTOR SHALL COORDINATE INSTALLATION WITH K.E.S.
8. PLUMBING CONTRACTOR SHALL SPECIFY CONNECTION MATERIAL/TYPE WHEN ORDERING
9. PLUMBING CONTRACTOR SHALL SPECIFY BURY DEPTH WHEN ORDERING
10. PLUMBING CONTRACTOR SHALL PROVIDE GRID DRAIN, P–TRAP AND VALVE STOPS FOR ALL SINKS & LAVS
11. FOR ALTERNATIVE LAVATORY OPTIONS, SUCH AS MOLDED SINKS OR DECK MOUNTED HAND DRYER, PLEASE CONTACT USRD OR HUGHES DIRECTLY.

TO ORDER PLUMBING FIXTURES, CONTACT HUGHES SUPPLY:
E–MAIL: MCDCOORD@HUGHESSUPPLY.COM
OR MCDCOORD@HAJOCA.COM

| REV | DATE | DESCRIPTION |
|---|---|---|
| A | 4/2/2025 | UPDATED GI AS PER MOD COMMENTS |

DATE: .....

PREPARED BY:
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PREPARED FOR:
McDonald's USA, LLC

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| DRAWN BY | STD ISSUE DATE |
|---|---|
| – | 2023 11 |
| REVIEWED BY | DATE ISSUED |
| QA | 9/6/2024 |

TITLE
2024 STANDARD BUILDING – BB20
4584–WOOD/WOOD

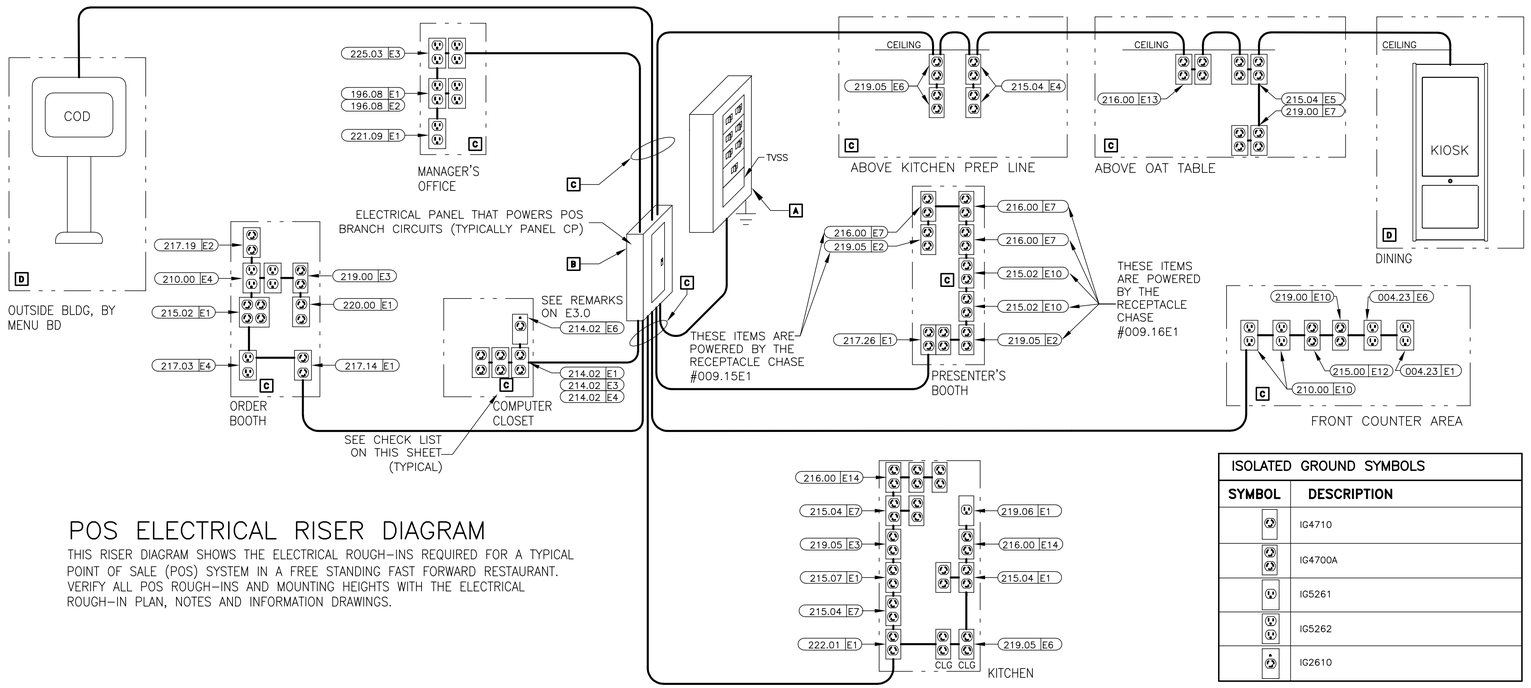
DESCRIPTION
WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & CI
WOOD TRUSS ROOF FRAMING
BRICK/ ALPOLIC PANEL

SITE ADDRESS
102 W CORNELIUS HARNETT BLVD
LILLINGTON, NC

NSN: 10721
L/C: 032–0312

SHEET NO.
032–0312.00.0
P4.1
SCHEDULES

THE PURPOSE OF THIS SHEET IS TO PROVIDE A CHECKLIST AND VISUAL GUIDE SO THE INSTALLING EC CAN VERIFY THE WORK IS IN COMPLIANCE WITH MCDONALD'S SPECIFICATIONS THAT ARE CRITICAL TO THE PROPER FUNCTIONING OF OUR POINT OF SALE (POS) COMPUTER SYSTEMS.




## POS ELECTRICAL RISER DIAGRAM

THIS RISER DIAGRAM SHOWS THE ELECTRICAL ROUGH-INS REQUIRED FOR A TYPICAL POINT OF SALE (POS) SYSTEM IN A FREE STANDING FAST FORWARD RESTAURANT. VERIFY ALL POS ROUGH-INS AND MOUNTING HEIGHTS WITH THE ELECTRICAL ROUGH-IN PLAN, NOTES AND INFORMATION DRAWINGS.

| ISOLATED GROUND SYMBOLS | |
|---|---|
| **SYMBOL** | **DESCRIPTION** |
| | IG4710 |
| | IG4700A |
| | IG5261 |
| | IG5262 |
| | IG2610 |

## LOW VOLTAGE CABLE MANAGEMENT SPECIFICATION

### GENERAL/MATERIALS

1. THE GC OR EC SHALL FURNISH AND INSTALL A COMPLETE LOW VOLTAGE CABLE MANAGEMENT SYSTEM UTILIZING CADDY-ERICO TYPE CAT-32 J-HOOK SUPPORTS (2-INCH DIAMETER LOOP MINIMUM). ALL J-HOOKS SHALL;
   - HAVE A MINIMUM BEARING SURFACE OF 1⅜",
   - HAVE FLARED EDGES TO PREVENT DAMAGE TO HIGH PERFORMANCE CABLES,
   - HAVE AN ELECTRO-GALVANIZED FINISH,
   - HAVE 3/8" WIDE CABLE RETAINING STRAPS,
   - BE UL LISTED AND LABELED,
   - BEAR THE UL SYMBOL MARKING ON THE PART FOR IDENTIFICATION
   - BE INSTALLED PER THE MANUFACTURERS INSTALLATION INSTRUCTIONS.
2. THE ENTIRE INSTALLATION SHALL BE IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE (NEC), NEC SECTION 800, BICSI STANDARDS 568 & 569, ALL APPLICABLE NATIONAL, STATE, LOCAL, AND SAFETY CODES, AND McDONALD'S SPECIFICATIONS.

### INSTALLATION

1. LOW VOLTAGE J-HOOK CABLE PATHWAY (FOR POS CABLING SYSTEM) SHALL BE PROVIDED FROM THE MANAGERS OFFICE (OR COMPUTER CLOSET) DATA CONDUIT STUB-UP LOCATION TO THE FOLLOWING DATA CONDUIT STUB-UP LOCATIONS (AS APPLICABLE):
   - FRONT COUNTER.
   - PRESENTERS BOOTH.
   - CASHIERS BOOTH.
   - THIRD DRIVE-THRU WINDOW(IF PRESENT).
   - CREW ROOM.
   - VALENCE WALL.
   - REMOTE ORDERING STATIONS.
   - NETPOP TELEPHONE PANEL LOCATION.
   - KIOSK
   - DIGITAL MERCHANDISER

   CABLE SUPPORTS SHALL BE PROVIDED WITHIN 24 INCHES OF THESE STUB-UP LOCATIONS. ALL STUB-UP CONDUITS SHALL BE PROVIDED WITH AN INSULATED BUSHING TO PROTECT CABLES DURING INSTALLATION.
2. THE LOCATION AND ROUTING OF THE LOW VOLTAGE CABLE MANAGEMENT SYSTEM SHALL BE COORDINATED WITH ALL OTHER CONSTRUCTION TRADES PRIOR TO INSTALLATION TO AVOID CONFLICTS WITH THE OTHER TRADES FINAL INSTALLATIONS, BOTH BEFORE AND AFTER THE CABLE MANAGEMENT SYSTEM AND THE POS CABLING ARE INSTALLED. FINAL INSTALLATION LOCATION SHALL BE READILY ACCESSIBLE TO ALLOW FOR EASE IN INSTALLATION OF THE POS CABLING BY THE POS VENDOR'S INSTALLER.
3. LOW VOLTAGE J-HOOK CABLE SUPPORTS AND APPURTENANCES SHALL BE FASTENED TO THE BUILDING STRUCTURAL AND/OR FRAMING MEMBERS. LOW VOLTAGE J-HOOK CABLE SUPPORTS SHALL NOT BE FASTENED OR UTILIZE THE CEILING GRID SUSPENSION WIRES OR T-BAR GRID FOR INSTALLATION. CONTRACTOR SHALL PROVIDE ALL NECESSARY BRACKETS, HANGERS, RODS, CLAMPS, FLANGES, SUPPORTS, ETC. FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM. THE INSTALLATION OF THE LOW-VOLTAGE CABLE MANAGEMENT SYSTEM SHALL BE DONE SO THAT THE ROUTING OF THE CABLES IS PARALLEL TO AND/OR PERPENDICULAR TO FRAMING AND STRUCTURAL BUILDING MEMBERS.
4. LOW VOLTAGE J-HOOK **CABLE SUPPORTS** SHALL BE INSTALLED A MAXIMUM OF 36 INCHES APART. AT TRANSITION LOCATIONS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL J-HOOKS TO ALLOW FOR A MINIMUM ONE-FOOT RADIUS BEND AND FOR ADDITIONAL CABLE SUPPORT AT THESE TRANSITION POINTS.
5. TO AVOID **ELECTROMAGNETIC INTERFERENCE** (EMI), ALL PATHWAYS SHALL PROVIDE A MINIMUM CLEARANCE OF 4 FEET (1.2 METERS) FROM MOTORS AND TRANSFORMERS AND A MINIMUM CLEARANCE OF 1 FOOT (0.3 METERS) FROM CONDUIT AND CABLES UTILIZED FOR ELECTRICAL POWER DISTRIBUTION, AND OTHER NON-POS LOW VOLTAGE CONDUCTORS.
6. ANY **CEILING TILES** IN THE AREA WHERE THE LOW-VOLTAGE CABLE MANAGEMENT SYSTEM IS LOCATED SHALL NOT BE INSTALLED UNTIL THE POS VENDOR'S CONTRACTOR COMPLETES THE INSTALLATION OF ALL POS CABLING.
7. ALL NON-POS LOW VOLTAGE CABLING SHALL BE INSTALLED IN A SEPARATE CABLE MANAGEMENT SYSTEM INDEPENDENT OF THE LOW-VOLTAGE CABLE MANAGEMENT SYSTEM UTILIZED FOR THE POS CABLING.
8. THE POS INSTALLER SHALL BE RESPONSIBLE TO FURNISH AND INSTALL ALL LOW VOLTAGE CABLING REQUIRED FOR THE COMPLETE AND FULLY FUNCTIONAL OPERATION OF THE POS SYSTEM. ALL POS CABLING SHALL BE INSTALLED WITHIN THE LOW-VOLTAGE CABLE MANAGEMENT SYSTEM.
9. GENERAL CONTRACTOR TO COORDINATE WITH POS INSTALLER. POS INSTALLER TO PERFORM POS CABLE INSTALLATION PRIOR TO CLOSING OF WALLS AND CEILING.

## ELECTRICAL POS CERTIFICATION

AS OF THE DATE BELOW, I HEREBY CERTIFY THAT ALL ELECTRICAL WORK, ELECTRICAL SERVICE AND ELECTRICAL SYSTEMS, MATERIALS AND LABOR RELATED TO THE POS ELECTRICAL INSTALLATION IN WHICH THE UNDERSIGNED ARE DIRECTLY OR INDIRECTLY RESPONSIBLE HAVE BEEN PROPERLY INSTALLED IN FULL COMPLIANCE WITH ALL CONSTRUCTION DOCUMENTS AND ALL NFPA, BUILDING, ELECTRICAL AND OTHER APPLICABLE CODES, ALONG WITH ALL OF THE REQUIREMENTS OUTLINED ON THIS DRAWING. I FURTHER CERTIFY THAT THE ELECTRIC SERVICE POWERING THE POS SYSTEM HAS BEEN PROPERLY INSTALLED BY A QUALIFIED ELECTRICIAN. SKILLED, KNOWLEDGEABLE AND TRAINED TO INSTALL ALL THE REQUIRED ELECTRICAL DISTRIBUTION COMPONENTS NECESSARY TO POWER THE POINT OF SALE (POS) SYSTEM.

GENERAL CONTRACTOR: _____

BY: _____

DATE: _____

ELECTRICAL CONTRACTOR: _____

BY: _____

DATE: _____

START HERE

**A VISUALLY INSPECT THE MAIN ELECTRICAL PANEL (MDP)**

| YES | NO | N/A | | |
|---|---|---|---|---|
| ☐ | ☐ | ☐ | 1. | IS AN **EQUIPMENT GROUND BAR** INSTALLED SUCH THAT IT IS ELECTRICALLY **CONNECTED** TO THE PANEL? |
| ☐ | ☐ | ☐ | 2. | DO ALL NEUTRAL CONDUCTORS TERMINATE ONLY TO THE NEUTRAL BAR? |
| ☐ | ☐ | ☐ | 3. | DO ALL EQUIPMENT GROUND CONDUCTORS TERMINATE ONLY TO THE EQUIPMENT GROUND BAR? |
| ☐ | ☐ | ☐ | 4. | DOES THE ISOLATED GROUND CONDUCTOR (GREEN W/YELLOW STRIPE) TERMINATE ON THE EQUIPMENT GROUND BAR? |
| ☐ | ☐ | ☐ | 5. | IS THERE AN APPROPRIATE ELECTRICAL CONNECTION (BOND) BETWEEN THE NEUTRAL BAR AND THE EQUIPMENT GROUND BAR? |
| ☐ | ☐ | ☐ | 6. | DOES THE GROUNDING SYSTEM COMPLY WITH MCDONALD'S "BUILDING ELECTRICAL GROUNDING DETAIL"? |
| ☐ | ☐ | ☐ | 7. | IS A SURGE PROTECTOR INSTALLED THAT COMPLIES WITH MCDONALD'S "TVSS INSTALLATION GUIDE" OR DETAIL? |
| ☐ | ☐ | ☐ | 8. | ARE ALL ELECTRICAL CONNECTIONS (WIRING & BUSING) PROPERLY TIGHTENED? |
| ☐ | ☐ | ☐ | 9. | ARE ALL CIRCUIT BREAKERS CLEARLY LABELED? |

**B VISUALLY INSPECT THE PANEL "CP" THAT POWERS POS**

| YES | NO | N/A | | |
|---|---|---|---|---|
| ☐ | ☐ | ☐ | 1. | IS AN **EQUIPMENT GROUND BAR** INSTALLED SUCH THAT IT IS ELECTRICALLY **CONNECTED** TO THE PANEL? |
| ☐ | ☐ | ☐ | 2. | IS AN **ISOLATED GROUND BAR** INSTALLED SUCH THAT IT IS ELECTRICALLY **INSULATED** FROM THE PANEL? |
| ☐ | ☐ | ☐ | 3. | DO ALL NEUTRAL CONDUCTORS TERMINATE ONLY TO THE NEUTRAL BAR? |
| ☐ | ☐ | ☐ | 4. | DO ALL EQUIPMENT GROUND CONDUCTORS TERMINATE ONLY TO THE EQUIPMENT GROUND BAR? |
| ☐ | ☐ | ☐ | 5. | DO ALL ISOLATED GROUND CONDUCTORS (GREEN W/YELLOW STRIPE) TERMINATE ONLY TO THE ISOLATED GROUND BAR? |
| ☐ | ☐ | ☐ | 6. | ARE ALL ELECTRICAL CONNECTIONS (WIRING & BUSING) PROPERLY TIGHTENED? |
| ☐ | ☐ | ☐ | 7. | ARE ALL POS AND COD CIRCUIT BREAKERS ON THE SAME PANEL? |
| ☐ | ☐ | ☐ | 8. | ARE ALL CIRCUIT BREAKERS CLEARLY LABELED? |
| ☐ | ☐ | ☐ | 9. | DO ALL POS & COD CIRCUIT BREAKERS HAVE A LOCKING MECHANISM ON THEIR HANDLES TO PREVENT THEM FROM BEING SHUT OFF BY MISTAKE? |
| ☐ | ☐ | ☐ | 10. | DOES THE FEEDER CIRCUIT FOR THIS SUBPANEL CONTAIN PHASE, NEUTRAL ONE EQUIPMENT GROUND AND ONE ISOLATED GROUND CONDUCTORS THAT ARE PROPERLY TERMINATED (SEE POS & COD ISO GND/DED CKT DETAIL)? |

**VISUALLY INSPECT ALL REMAINING ELECTRICAL SUBPANELS**

| YES | NO | N/A | | |
|---|---|---|---|---|
| ☐ | ☐ | ☐ | 1. | IS AN **EQUIPMENT GROUND BAR** INSTALLED SUCH THAT IT IS ELECTRICALLY **CONNECTED** TO THE PANEL? |
| ☐ | ☐ | ☐ | 2. | DO ALL NEUTRAL CONDUCTORS TERMINATE ONLY TO THE NEUTRAL BAR? |
| ☐ | ☐ | ☐ | 3. | DO ALL EQUIPMENT GROUND CONDUCTORS TERMINATE ONLY TO THE EQUIPMENT GROUND BAR? |
| ☐ | ☐ | ☐ | 4. | ARE ALL ELECTRICAL CONNECTIONS (WIRING & BUSING) PROPERLY TIGHTENED? |
| ☐ | ☐ | ☐ | 5. | ARE ALL CIRCUIT BREAKERS CLEARLY LABELED? |
| ☐ | ☐ | ☐ | 6. | DOES THE FEEDER CIRCUIT FOR THIS SUBPANEL CONTAIN PHASE, NEUTRAL AND ONE EQUIPMENT GROUND CONDUCTORS THAT ARE PROPERLY TERMINATED? (SEE BUILDING ELECTRICAL GROUNDING DETAIL) |

**C VISUALLY INSPECT THE POS BRANCH CIRCUITS**

| YES | NO | N/A | | |
|---|---|---|---|---|
| ☐ | ☐ | ☐ | 1. | ARE THE POS BRANCH CIRCUITS ROUTED IN THEIR OWN CONDUIT BY THEMSELVES? |
| ☐ | ☐ | ☐ | 2. | IF THE POS BRANCH CIRCUIT IS ROUTED ABOVE GRADE, IS IT IN A METALLIC CONDUIT? |
| ☐ | ☐ | ☐ | 3. | DOES EACH POS BRANCH CIRCUIT CONTAIN: ONE PHASE (BLACK COLORED INSULATION) ONE NEUTRAL (WHITE COLORED INSULATION) ONE EQUIPMENT GROUND (GREEN COLORED INSULATION) ONE ISOLATED GROUND (GREEN W/YELLOW STRIPE COLORED INSULATION). |
| ☐ | ☐ | ☐ | 4. | DO ALL POS BRANCH CIRCUITS TERMINATE AT EITHER AN IG4700, IG4710, IG5261, IG5262 RECEPTACLES OR ANY COMBINATION OF THESE? |
| ☐ | ☐ | ☐ | 5. | ARE ALL ELECTRICAL TERMINATIONS TO IG RECEPTACLES MADE WITH SOLID #12 AWG WIRE CAPTURED AROUND THE SCREW BARREL AND SUITABLY TIGHTENED? |
| ☐ | ☐ | ☐ | 6. | ARE ALL BRANCH CIRCUIT CONNECTIONS PROPERLY TIGHTENED? |
| ☐ | ☐ | ☐ | 7. | ARE THE CORRECT AMOUNT AND TYPE OF IG RECEPTACLES PROVIDED AS SHOWN IN THE ELECTRICAL ROUGH-IN PLAN, NOTES AND INFORMATION? |
| ☐ | ☐ | ☐ | 8. | DO ALL POS RECEPTACLES HAVE ORANGE "COMPUTER ONLY" COVERPLATES? |
| ☐ | ☐ | ☐ | 9. | DO ALL POS BRANCH CIRCUITS COMPLY WITH THE "POS & COD ISOLATED GROUND/DEDICATED CIRCUIT DETAIL? |

**D VISUALLY INSPECT THE POS BRANCH CIRCUIT FOR THE COD & KIOSK**

| YES | NO | N/A | | |
|---|---|---|---|---|
| ☐ | ☐ | ☐ | 1. | ARE THE COD AND KIOSK BRANCH CIRCUITS ROUTED IN THEIR OWN CONDUIT BY THEMSELVES? |
| ☐ | ☐ | ☐ | 2. | DOES EACH COD AND KIOSK BRANCH CIRCUIT CONTAIN;<br>- ONE PHASE (BLACK COLORED INSULATION),<br>- ONE NEUTRAL (WHITE COLORED INSULATION),<br>- ONE EQUIPMENT GROUND (GREEN COLORED INSULATION),<br>- ONE ISOLATED GROUND (GREEN W/YELLOW STRIPE COLORED INSULATION). |
| ☐ | ☐ | ☐ | 3. | ARE THE COD(S) AND KIOSK(S) POWERED FROM THE SAME PANEL AS THE POS? |
| ☐ | ☐ | ☐ | 4. | DO THE BREAKERS FOR THE COD(S) AND KIOSK(S) HAVE A LOCKING MECHANISM ON THEIR HANDLES THAT WILL PREVENT IT FROM BEING SHUT OFF? |
| ☐ | ☐ | ☐ | 5. | DO THE COD BRANCH CIRCUIT(S) COMPLY WITH THE "POS & COD ISOLATED GROUND/DEDICATED CIRCUIT DETAIL? |

ARE **ALL** BOXES CHECKED "YES"?

NO

REWORK ELECTRICAL SYSTEM TO BRING INTO COMPLIANCE WITH MCDONALD'S SPECIFICATIONS

YES

ALL WORK IS NOT CONSIDERED TO MEET MCDONALD'S SPECIFICATIONS UNTIL THE INSTALLED ELECTRICAL SYSTEM SUPPORTS A "YES" ANSWER FOR ALL QUESTIONS ASKED.

AS PART OF THIS PROCESS, THE EC AND THE GC WILL BE REQUIRED TO SIGN THE ELECTRICAL CERTIFICATION DOCUMENT INDICATING THAT THE INSTALLED ELECTRICAL SYSTEM MEETS MCDONALD'S SPECIFICATIONS.

**NOTICE:**

CHANGES SHALL NOT BE MADE TO THE POS ELECTRICAL SYSTEM AFTER THE POS EQUIPMENT HAS BEEN INSTALLED WITHOUT FIRST NOTIFYING THE POS VENDOR.

IF CHANGES ARE MADE TO THE POS ELECTRICAL SYSTEM **AFTER** THE CERTIFICATION PROCESS HAS BEEN COMPLETED, THEN A SYSTEM RE-CERTIFICATION SHALL BE REQUIRED.

FINISHED

| REV | DATE | DESCRIPTION |
|---|---|---|
| | | |

DATE: .....


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| – | CA | 9/6/2024 |
| STD ISSUE DATE 2023 11 | | |

LILLINGTON, NC

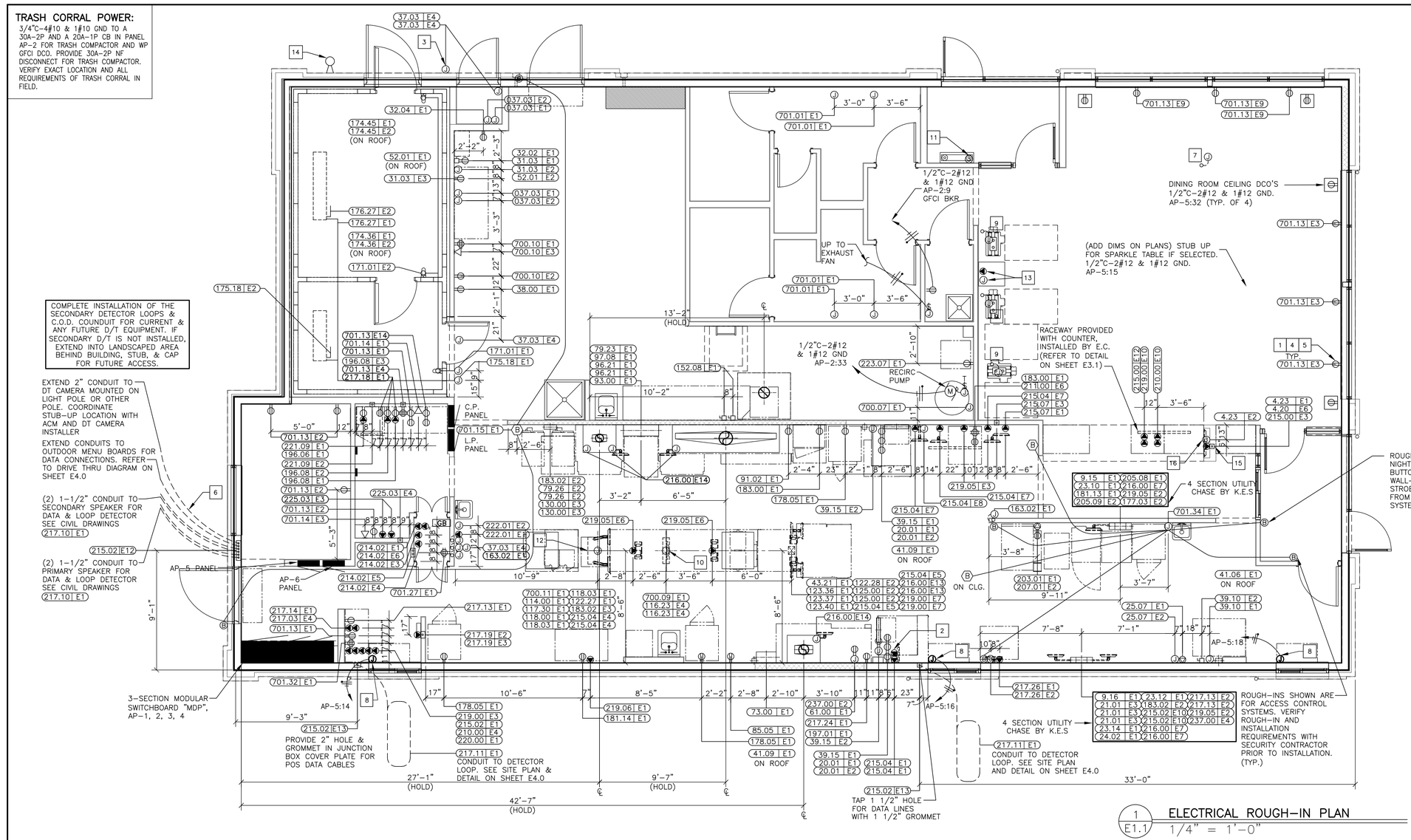
TITLE
2024 STANDARD BUILDING – BB20
4584-WOOD/WOOD

| DESCRIPTION | SITE ADDRESS |
|---|---|
| WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & CI | |
| WOOD TRUSS ROOF FRAMING | |
| BRICK/ ALPOLIC PANEL | 102 W CORNELIUS HARNETT BLVD |
| NSN: 10721 | |
| L/C: 032-0312 | |

SHEET NO.
032-0312.00.0
E1.0
POS RISER DIAGRAM

PROJECT No. 60734777 Task: 032-0312

**TRASH CORRAL POWER:**
3/4"C–4#10 & 1#10 GND TO A 30A–2P AND A 20A–1P CB IN PANEL AP–2 FOR TRASH COMPACTOR AND WP GFCI DCO. PROVIDE 30A–2P NF DISCONNECT FOR TRASH COMPACTOR. VERIFY EXACT LOCATION AND ALL REQUIREMENTS OF TRASH CORRAL IN FIELD.




1 E1.1 ELECTRICAL ROUGH–IN PLAN
1/4" = 1'–0"

## SYMBOLS AND ABBREVIATIONS

| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|---|---|---|---|
| | SINGLE POLE SWITCH, 3W=THREE WAY SWITCH, K=KEYED SWITCHED, VS=VACANCY SENSOR | (B) | BUZZER |
| T | MANUAL SWITCH (T=THERMAL OVERLOADS) | (B) | BUTTON FOR BUZZER |
| T | TRANSFORMER | | PULLBOX |
| | JB WITH DUPLEX CONVENIENCE OUTLET (FLUSH WITH CEILING) | | PANELBOARD |
| | JB WITH SINGLE CONVENIENCE OUTLET | | CIRCUIT BREAKER |
| | JB WITH DUPLEX CONVENIENCE OUTLET | A | AMPERES |
| | JB WITH TWO DUPLEX CONVENIENCE OUTLETS | ACM | AREA CONSTRUCTION MANAGER |
| | JB WITH SPECIAL PURPOSE OUTLET | AFF | ABOVE FINISHED FLOOR |
| | JB WITH ISOLATED GROUND OUTLET; = IG4710, =IG5261, =IG4700A, =IG5262 | C | CONDUIT |
| | | CCT | CIRCUIT |
| | INTERCOM STATION W/ 3/4"C– TO MAIN STATION | EC | ELECTRICAL CONTRACTOR |
| | TELEPHONE JACK | GC | GENERAL CONTRACTOR |
| J | JUNCTION BOX – WALL OR CEILING MOUNTED | GFI/GFCI | GROUND FAULT CIRCUIT INTERRUPTER |
| | DISCONNECT SWITCH | GND | GROUND |
| S | STUB UP THRU ROOF | IG | ISOLATED GROUND |
| T | THERMOSTAT SENSOR W/ 1/2"C– UP TO CEILING SPACE | JB | JUNCTION BOX |
| M | MOTOR CONNECTION | KES | KITCHEN EQUIPMENT SUPPLIER |
| | CONDUIT RUN CONCEALED IN CEILING OR WALLS | MLO | MAIN LUGS ONLY |
| | CONDUIT RUN IN FLOOR SLAB | WP | WEATHERPROOF |
| \|\|\|X | HOT (SHORT), NEUTRAL (LONG), EQUIP GRD (LONG WITH DOT), & & 'X' DENOTES ISOLATED GRD | CO | CARBON MONOXIDE SENSOR |
| | J–BOX WITH FINAL EQUIPMENT CONNECTION | GB | GROUND BUS TERMINAL |
| OS | CEILING MOUNTED OCCUPANCY SENSOR | DS | DAYLIGHT SENSOR |

## ADT ROUGH–IN NOTES

1. COORDINATE EXACT INSTALLATION REQUIREMENTS WITH ADT PRIOR TO INSTALLATION TEL. 800–417–8238
2. EC SHALL PROVIDE A 2 GANG 3 25/32" X 3 25/32" X 3 1/2"D JUNCTION BOX AT DOOR FOR INSTALLATION OF DOOR ALARM UNIT. STUB 1/2"C ABOVE CEILING FROM JUNCTION BOX. PROVIDE 1/2"C FROM J–BOX TO DOOR MAGNETIC SWITCH LOCATION.
3. EC SHALL PROVIDE 4" X 4" JUNCTION BOX ABOVE CEILING FOR INSTALLATION OF LOW VOLTAGE TRANSFORMER. VERIFY EXACT LOCATION WITH ADT PRIOR TO INSTALLATION. PROVIDE 1/2"C–2#12 TO LOCKOUT TYPE CB IN PANEL LP–1.

## GENERAL NOTES

1. SEE SHEET E3.0 FOR PANEL & CIRCUIT BREAKER ASSIGNMENT, VOLT/PH, FLA, BREAKER SIZE, COND/WIRE, RECEPTACLE TYPE, HEIGHT ABOVE FINISHED FLOOR, REQUIREMENTS & REMARKS FOR ALL ELECTRICAL EQUIPMENT.
2. SEE LOW VOLTAGE CABLE MANAGEMENT SPECIFICATION ON SHEET E1.0 FOR POS, DATA, AND SOUND SYSTEM REQUIREMENTS.
3. GC/EC SHALL COORDINATE LOCATION AND ALL REQUIREMENTS OF CT& METER CABINET WITH LOCAL UTILITY COMPANY. CT & METER CABINET SHALL NOT BE INSTALLED ON D/T SIDE OF BUILDING. GC SHALL PAINT TO MATCH BUILDING COLOR.

## KEY NOTES

1 TAMPER RESISTANT GFCI DUPLEX RECEPTACLE IN PUBLIC AREAS. EC SHALL PROVIDE HUBBELL GFTRST* ("*": AL=ALMOND, BK=BLACK, –=BROWN, GY=GRAY, I=IVORY, LA=LIGHT ALMOND, R=RED, W=WHITE). SPECIFIED RECEPTACLE BECOMES DE–ENERGIZED UPON FAILURE OF GFCI DEVICE. NO SUBSTITUTIONS.(TYPICAL)

2 SEE POS ELECTRICAL RISER DIAGRAM ON SHEET E1.0. (TYPICAL)

## KEY NOTES

3 EC TO FURNISH AND INSTALL A FLUSH MOUNTED JUNCTION BOX WITH WEATHERPROOF GASKET AND OUTDOOR WEATHERPROOF, 24 VOLT CO2 HORN/STROBE UNIT COMPATIBLE WITH CO2 ALARM SYSTEM – EDWARDS GENESIS WGAVRN OR APPROVED EQUAL. STROBE SHALL HAVE AN AMBER COVER AND MEET ALL LOCAL REGULATORY REQUIREMENTS FOR SPECIFICATIONS AND INSTALLATION. PROVIDE A 3/4" CONDUIT STUB–IN INTO BUILDING WITH THERMOPLASTIC BUSHING FROM WEATHERPROOF BACKBOX. PROVIDE FINAL WIRING TERMINATIONS AT HORN/STROBE UNIT AND THEN PROVIDE 36 INCHES OF PIGTAIL WIRING FROM HORN/STROBE INTO THE BUILDING AND NEATLY COIL FOR FINAL CONNECTION. FINAL WIRING CONNECTION FROM OUTDOOR HORN/STROBE PIGTAILS TO THE CO2 ALARM SYSTEM INSTALLATION TO BE PROVIDED BY BEVERAGE INSTALLER.

4 PER THE AMERICAN WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG), A MINIMUM OF ONE (1) ADA COMPLIANT ELECTRICAL RECEPTACLE SHALL BE INSTALLED AT AN ACCESSIBLE TABLE. GC/EC SHALL REFERENCE FINAL DECOR PLANS AND PROVIDE RECEPTACLES AS NECESSARY FOR COMPLIANCE. (TYPICAL)

5 COORDINATE LOCATION OF RECEPTACLES SO THAT RECEPTACLES ARE LOCATED ON FULL HEIGHT WALLS PER THE DECOR PLAN. STUB UP AND CIRCUIT IN HALF WALL FOR RECEPTACLES NOT ON FULL HEIGHT WALLS, CONFIRM FINAL LOCATIONS WITH DECOR DRAWINGS PRIOR TO ROUGH–IN.

6 IF MOUNTED TO A LIGHTING POLE, DT CAMERA SHALL ONLY BE INSTALLED ON A POLE WITH MAXIMUM OF (2) LIGHTING HEADS. PROVIDE ISOLATION OF DT CAMERA MOUNTING HARDWARE AND POLE TO PREVENT BI–METALLIC OR GALVANIC CORROSION.

7 E.C. TO PROVIDE AN ALLOWANCE IN BID TO PROVIDE TWO(2) FLEXIBLE POWER CONNECTIONS FOR POWER TO FURNITURE/ FAMILY EXPERIENCE ELEMENTS AS PART OF THE DECOR PACKAGE. E.C. SHALL VERIFY EXACT LOCATIONS IN FIELD AND WITH DECOR DRAWINGS. PROVIDE ALL NECESSARY MATERIALS AND LABOR FOR A COMPLETE AND FULLY NEC CODE COMPLIANT INSTALLATION. ALL COMPONENTS SHALL BE FED FROM A GFCI TYPE CIRCUIT BREAKER AND BRANCH CIRCUIT SHALL CONTAIN TWO PATHS OF GROUNDING (CONDUIT BODY AND AN INSULATED GROUNDING CONDUCTOR) TO COMPLY WITH McDONALD'S GROUNDING STANDARDS.

8 DRIVE THRU WINDOW POWER, CONFIRM REQUIREMENTS WITH MANUFACTURER DRAWINGS.

## KEY NOTES

9 PROVIDE POWER FOR CONNECTION TO SELF ORDER KIOSKS. COORDINATE EXACT LOCATION OF KIOSKS WITH DECOR DRAWINGS. PROVIDE 2#12, 1#12 GRD., & 1#12 ISOLATED GROUND ON A 20A DEDICATED CIRCUIT FED FROM THE CP PANEL FOR EVERY KIOSK.

10 VERIFY DROP CORDS AND RECEPTACLES DO NOT FALL BELOW HEIGHTS LISTED ON E3.0 ELECTRICAL SCHEDULE. RECEPTACLES SHOULD BE LOCATED AT HEIGHTS TO AVOID CONTACT WITH HOT APPLIANCES.

11 PROVIDE J–BOX ABOVE CEILING NEAR KIOSK FOR DIGITAL MERCHANDISER. EXTEND CIRCUIT TO THIS LOCATION FROM FRONT COUNTER MERCHANDISER IN SERVICE AREA. EXTEND J–HOOKS FROM SERVICE AREA FOR DATA CABLES. REFER TO 3/E3.1.

12 EC TO INSTALL DROP CORDS JUSTIFIED TO THE DRIVE THRU SIDE OF THE BUILDING.

13 PROVIDE POWER AND DATA ROUGH–INS FOR CASH HANDLERS REFER TO 4/E3.1 FOR MORE INFORMATION. COORDINATE EXACT LOCATION WITH DECOR DRAWINGS.

14 AT&T TO PROVIDE #8 GRD CONDUCTOR FROM BUILDING EXTERIOR WIRELESS ACCESS POINT TO ABOVE INTERIOR CEILING. EC TO EXEND CONDUCTOR TO BUILDING GROUNDING SYSTEM. COORDINATE EXACT LOCATION OF ACCESS POINT IN FIELD WITH AT&T.

15 CONTRACTOR TO PUNCH HOLES IN SERVICE POD FOR CABLE AND CONDUIT ROUTING. UTILIZE BUSHINGS PROVIDE WITH SERVICE POD TO PROTECT CABLES.

16 REFER TO DETAIL ON A3.1 FOR DIMENSIONS OF DIGITAL MERCHANDISER ROUGH–INS.

PROJECT No. 60734777 Task: 032–0312

| NO. | DESCRIPTION | DATE | REV |
|---|---|---|---|
| | | | |

DATE: .....

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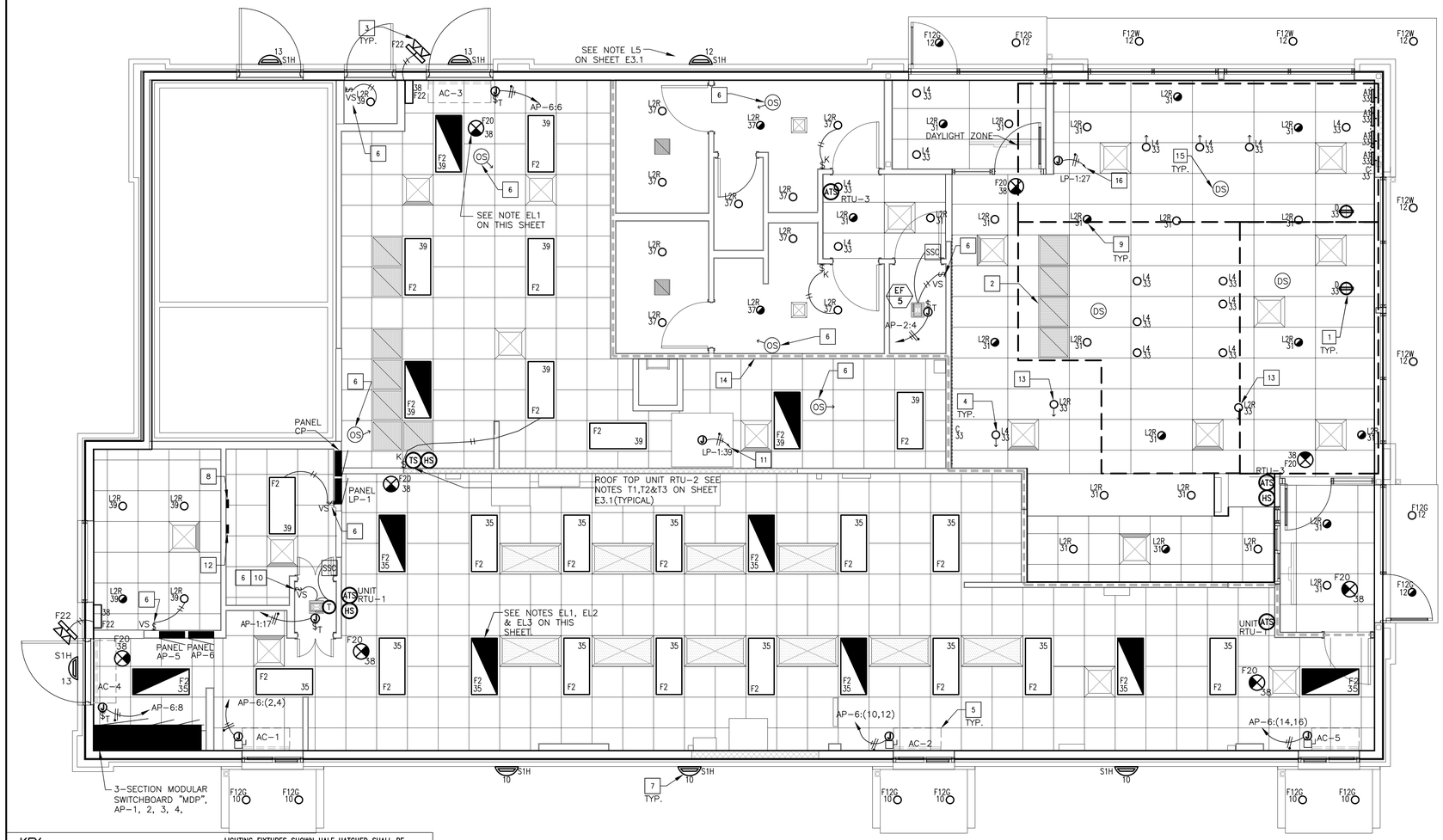
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| | |
|---|---|
| DRAWN BY | RH |
| STD ISSUE DATE | 2023 11 |
| REVIEWED BY | GA |
| DATE ISSUED | 9/6/2024 |

TITLE: 2024 STANDARD BUILDING – BB20
4584–WOOD/WOOD

| DESCRIPTION | |
|---|---|
| WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & CI | |
| WOOD TRUSS ROOF FRAMING | |
| BRICK/ ALPOLIC PANEL | |
| MSN: 10721 | SITE ADDRESS: 102 W CORNELIUS HARNETT BLVD |
| L/C: 032–0312 | LILLINGTON, NC |

SHEET NO. E1.1
032–0312.00.0
ROUGH–IN PLAN




KEY

DENOTES FIXTURE TYPE — F2

DENOTES CIRCUIT NUMBER — 41

LIGHTING FIXTURES SHOWN HALF HATCHED SHALL BE WIRED TO AN EMERGENCY INVERTER AND CIRCUITED AS SWITCHED EMERGENCY FIXTURES SO THE FIXTURE IS CONTROLLED VIA TIMECLOCK BUT TURNS ON UPON LOSS OF POWER. SEE NOTE EL3 ON THIS SHEET. COORDINATE LOCATION WITH DECOR.

LIGHTING FIXTURES SHOWN WITH ARROW DENOTES GENERAL DIRECTION TO AIM ADJUSTABLE FIXTURES. VERIFY IN FIELD.

1 / E2.0 LIGHTING FLOOR PLAN
1/4"=1'-0"

## KEY NOTES

1. CENTER PENDANT LIGHTS OVER TABLES (TYPICAL)
2. ALL SOFFIT LOCATIONS, LIGHTING, & SUPPLY GRILLS SHALL BE COORDINATED WITH DECOR COMPANY DRAWING PRIOR TO INSTALLATION.
3. EC SHALL INSTALL AND CONFIGURE REMOTE EMERGENCY LIGHTING AT ALL EGRESS EXTERIOR DOORS FOR MAXIMUM ILLUMINATION AT POINTS OF EGRESS. INSTALL WP J-BOX WITHIN SOFFIT TO ALLOW A FLUSH INSTALLATION OF ANY EXTERIOR EMERGENCY EGRESS LIGHTING (TYPICAL).
4. OPTIONAL ADJUSTABLE WALL WASH FIXTURE TO ILLUMINATE LOGO OR GRAPHICS. EC SHALL VERIFY EXACT LOCATION SO AS TO ADEQUATELY ILLUMINATE McDONALD'S ARCH LOGO SIGN AND GRAPHICS.
5. AIR CURTAIN UNIT. NON HEATED VERSION TO USE 1/2"C. 2#12, 1#12GRD. HEATED VERSION TO USE 1"C. 2#6, 1#10 GRD. (TYPICAL).
6. PROVIDE DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR OR WALL MOUNTED VACANCY SENSOR AS SHOWN. ORDER ALL SENSORS FROM SECURITY LIGHTING SYSTEMS, INC.
7. RADIAL WALL SCONCE. SEE NOTE L2 ON SHEET E3.1 AND ARCHITECTURAL ELEVATIONS ON SHEETS A2.0 & A2.1. (TYPICAL)
8. BUILDING AUTOMATION SYSTEM LOCATION. SEE LIGHTING CONTROL DETAILS ON SHEET E4.1.
9. PROVIDE LIGHTING INVERTER FOR USE WITH FIXTURES SHOWN SLASHED. MODEL #LG125T SHOULD BE USED FOR L2R, L4 & F12G WITH NOT MORE THAN SEVEN DOWNLIGHTS CONNECTED TO EACH INVERTER, AND NOT MORE THAN TWO F2 FIXTURES. IF DECOR USES ALTERNATE FIXTURES, COORDINATE INVERTER TO BE USED WITH LIGHTING SUPPLIER. E.C. SHALL VERIFY THE QUANTITY OF FIXTURES THAT CAN BE CONNECTED WITHOUT EXCEEDING OPERATING CAPACITY OF UNIT AND PROVIDE ADDITIONAL CIRCUITS AND INVERTERS AS REQUIRED. (TYPICAL)
10. CENTER VACANCY SENSOR SWITCH OPPOSITE COMPUTER RACK IN A LOCATION ACCESSIBLE FROM BOTH DOORS FOR CONTROL OF CEILING MOUNTED LIGHT, IN DATA ROOM. FAN CONTROLLED BY LOCAL THERMOSTAT.
11. PROVIDE POWER FOR LIGHT WITHIN EXHAUST HOOD. INTEGRATE INTO LOCAL LIGHTING CONTROLS.
12. LIGHTING CONTACTORS IN NEMA 1 ENCLOSURE JUST BELOW CEILING. EC SHALL PROVIDE 120 VOLT CONTROL CIRCUIT TO CONTACTOR PANEL. VERIFY EXACT LOCATION IN FIELD AND REFER TO DRAWING E4.1 FOR ADDITIONAL DETAILS.
13. ADJUST FIXTURE TO ILLUMINATE DELIVERY POD SHELVING.
14. DRAFT STOP ABOVE CEILING, SEAL ALL ELECTRICAL PENETRATIONS.
15. NEW DAYLIGHT SENSOR TO BE INSTALLED TO CONTROL DAYLIGHT AREAS IN THE DINNING AREAS. ORDER ALL DAYLIGHT SENSORS FROM; SECURITY LIGHTING SYSTEMS, INC.
16. PROVIDE POWER FOR LIGHT WITHIN TOY DISPLAY. COORDINATE EXACT LOCATION WITH DECOR DRAWINGS.

## EMERGENCY LIGHTING NOTES

EL1. EC SHALL VERIFY ALL REQUIREMENTS AND FINAL EMERGENCY LIGHTING LOCATIONS WITH LOCAL AUTHORITIES. INCLUDE ALL COSTS IN BASE BID.

EL2. IF NOT INSTALLED BY MANUFACTURER, EC SHALL BE RESPONSIBLE FOR THE COMPLETE INSTALLATION OF THE EMERGENCY INVERTER IN SWITCHED EMERGENCY FIXTURES SHOWN ON THIS SHEET.

EL3. LED FIXTURES DENOTED AS SWITCHED EMERGENCY SHALL BE CONNECTED TO AN INVERTER. INVERTER SHALL BE CAPABLE OF ILLUMINATING FIXTURE FOR 1.5 HOURS TO COMPLY WITH NEC SECTION 700 AND UL924.

EL4. EMERGENCY BATTERY LIGHTING WALL PACKS IN PLAYPLACE SHALL BE LOCATED SO AS TO PROVIDE FOR MAXIMUM ILLUMINATION OF AREA. EC SHALL VERIFY EXACT PLACEMENT IN THE FIELD WITH McDONALD'S ACM. (IF APPLICABLE)

EL5. EMERGENCY LIGHTING HAS BEEN DESIGNED PER NFPA 101 TO MAINTAIN 1 FC IN PATH OF EGRESS. IF FIELD CONDITIONS REQUIRE ANY CHANGES TO LIGHTING DESIGN, EMERGENCY LIGHTING, SHALL BE INSTALLED TO MEET THE ABOVE REQUIREMENTS.

SEE SHEET E3.1 FOR GENERAL LIGHTING NOTES AND "ROOF PLAN" (SHEET E2.1) FOR ADDITIONAL ELECTRICAL ROUGH-IN & LIGHTING REQUIREMENTS.

## McDONALD'S SITE SIGNAGE:

EC SHALL PROVIDE:

ELECTRICAL CONTRACTOR SHALL COORDINATE POWER REQUIRED FOR ROAD SIGN. MOST SIGNS REQUIRE (1) 20 AMP 120V CIRCUIT. IF USED A 90-200 SIGN REQUIRES (4) 20 AMP 120V CIRCUITS OR ONE 1-PHASE 60 AMP 120/208V CIRCUIT. COORDINATE WITH SUPPLIERS DRAWINGS.
(1) 20 AMP 208 VOLT CIRCUIT, EC TO WIRE 2#12 TO 208 VOLT FLAG FLOODLIGHTS.
(1) 20 AMP 120 VOLT CIRCUIT TO D.C.O. IN ROAD SIGN BASE IF REQUIRED.
(2) 20 AMP 120 VOLT CIRCUITS FOR INGRESS/EGRESS DIRECTIONAL SIGNS (IF APPLICABLE).

*VERIFY EXACT LOCATIONS/TYPES/QUANTITIES OF ALL THE ABOVE WITH SITE/CIVIL PLANS AND MCD ACM.

# LIGHTING FIXTURE SCHEDULE:

| MARK | SYMBOL | DESCRIPTION | DIFFUSER | LAMPS WATTS | LAMPS TYPE | BALLAST | MOUNTING | MANUFACTURER AND CATALOG NUMBER |
|---|---|---|---|---|---|---|---|---|
| F2 | | 2' X 4' GRID TROFFER | PRISMATIC ACRYLIC | 44W | LED | – | RECESSED | SECURITY LIGHTING: # LCAT24-35HLG-EDU-WP-GK |
| F7 | | 1' X 4' GRID TROFFER | PRISMATIC ACRYLIC | 44W | LED | – | RECESSED | SECURITY LIGHTING # LCAT14-35HLG-EDU-WP-GK |
| L2R | | 4" LED ADJUSTABLE DOWN LIGHT | – | 16W | LED | – | RECESSED | SECURITY LIGHTING # RDA-136LM-30-FL-S/RDA-136-H VERIFY DOWNLIGHT TO BE USED WITH PHOTOMETRIC |
| L4 | | 3" LED ADJUSTABLE DOWN LIGHT | – | 7W | LED | – | RECESSED | SECURITY LIGHTING # RDA-60LM-30-NF-S/RDA-60-H VERIFY DOWNLIGHT TO BE USED WITH PHOTOMETRIC |
| F12G | | 6" LED DOWN LIGHT – SHALLOW HOUSING | – | 12W | LED | – | RECESSED | SECURITY LIGHTING # LB6LEDA10L-50K-9-GL/LBRA-6RW-T-10LCS9WH |
| A1 | | FRIES WALL LIGHT | – | 10W | LED | – | SURFACE | PERSONA # MCD22-FRIESFARXX-S |
| B | | RING PENDANT | – | 96W EA | LED | – | SUSPENDED | SECURITY LIGHTING # MPLN-63R-400-LM-30-DGCDS |
| D | | ORBIT PENDANT | – | 19W | LED | – | SUSPENDED | SECURITY LIGHTING # MPLN-11R-120-LM-30-DGCDG |
| C | | COVE LIGHT | – | 2.5W/FT | LED | – | SURFACE | SECURITY LIGHTING # SLLTRS-24-2.5-30-100/SLLD-ED-UNV96-24 |
| E | | LUNA CEILING ELEMENT | – | 55W | LED | – | SURFACE | ACOUSTICAL SURFACES # MIKE@ACOUSTICALSURFACES.COM |
| F20 | | EXIT SIGN WITH BATTERY BACKUP | – | 1.8W | LED | – | SURFACE | SECURITY LIGHTING: EVEURWE. SEE NOTE LS2 ON THIS SHEET. |
| F21 | | 2 HEADED EMERGENCY BATTERY LIGHT | – | – | LED | – | SURFACE TO WALL OR CEILING | SECURITY LTG. #EV4D |
| F22 | | EMERG BATTERY & 2 REMOTE HEADS | – | – | LED | – | SURFACE TO WALL OR SOFFIT | SECURITY LTG. #EV4D-02L-0/EVODB |
| F23 | | 2 HEADED EMERG LIGHT & 2 REMOTE HEAD IF REQ'D | – | – | LED | – | SURFACE TO WALL OR SOFFIT | SECURITY LTG. #EV4D/EVODB |
| S1H | | "DOWN ONLY" RADIAL WALL SCONCE – SILVER | TEMPERED GLASS | (1)-14W | LED | – | SURFACE TO WALL | SECURITY LIGHTING: #RWSC-36L-5K-DO-U-PS |
| F12W | | 6" LED DOWN LIGHT – WHITE TRIM | – | 12.5W | LED | – | RECESSED | SECURITY LIGHTING # 8542-5CCT |

## LIGHTING SCHEDULE NOTES:

LS1. ORDER LED EXIT SIGNS WITH LETTER COLORS THAT COMPLY WITH LOCAL CODES.
– FOR RED LETTERS USE #EVE-U-R (UNIVERSAL),
– FOR GREEN LETTERS USE #EVE-U-G (UNIVERSAL), OR
IF THE ABOVE EXIT SIGNS DO NOT COMPLY WITH LOCAL CODES USE: LED SIGN WITH BATTERY BACKUP, LETTER SIZE, COLOR, TYPE & DIRECTIONAL ARROWS AS REQUIRED BY THE LOCAL AUTHORITIES.

LS2. ALL INTERIOR LIGHT FIXTURES SHALL BE 120 VOLT UNLESS NOTED OTHERWISE.

LS3. LIGHTING FIXTURES HAVE BEEN CHOSEN TO ACHIEVE MAXIMUM ENERGY CONSERVATION WHILE MAINTAINING ADEQUATE LEVEL OF ILLUMINATION. SPECIFICATIONS SHALL BE STRICTLY FOLLOWED. ANY DEVIATION FROM THE SPECIFICATIONS SHALL BE APPROVED IN WRITING BY McDONALD'S CORPORATION.

## ORDER ALL LIGHT FIXTURES FROM:

SECURITY LIGHTING SYSTEMS, INC.
PHONE: 1-800-LIGHT-IT (800-544-4848)
EMAIL: SLORDERS@CURRENTLIGHTING.COM

CS ILLUMINATIONS
PHONE: 760-477-1244
EMAILS: MCD@CSILLUMINATIOINS.COM
WWW.CSILLUMINATIONS.COM/MCD

PROJECT No. 60734777 Task: 032-0312

| NO. | DESCRIPTION | DATE | REV |
|---|---|---|---|
| | | | |

DATE:

PREPARED BY:
AECOM
Technical Services
ENGINEERS, Inc.
6040 Fairview Road, Suite 200
Charlotte, NC 28210
License number F-0342
www.aecom.com
T (704) 522 0330
F (704) 522 0063

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PREPARED FOR:
McDonald's USA, LLC

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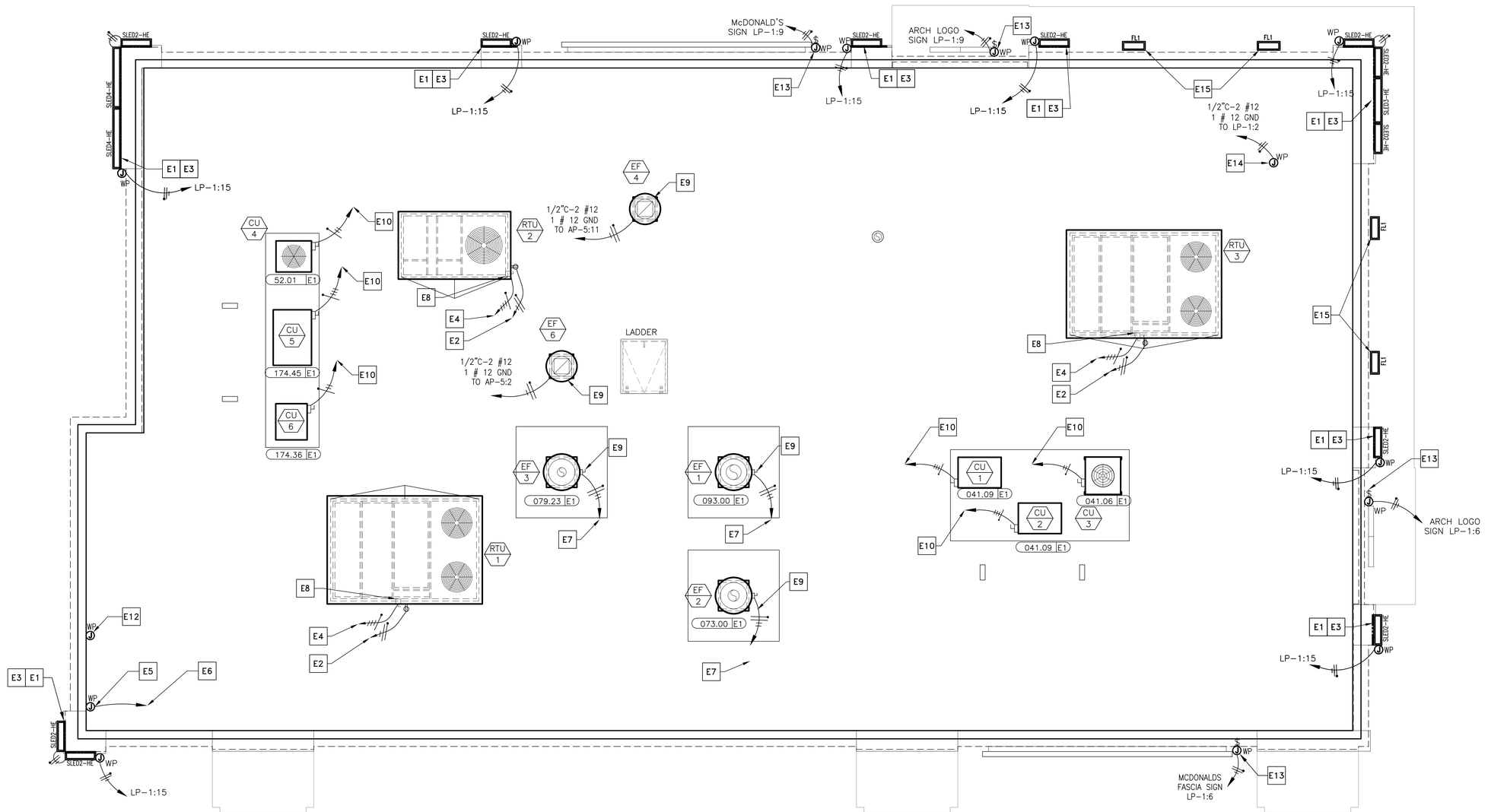
DRAWN BY: –
STD ISSUE DATE: 2023 11
REVIEWED BY: GA
DATE ISSUED: 9/6/2024
LILLINGTON, NC

TITLE: 2024 STANDARD BUILDING – BB20
4584-WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & CI
WOOD TRUSS ROOF FRAMING
BRICK/ ALPOLIC PANEL

MSN: 10721
SITE ADDRESS: 102 W CORNELIUS HARNETT BLVD
L/C: 032-0312

SHEET NO.: E2.0
032-0312.00.0
LIGHTING PLAN




# ELECTRICAL ROOF PLAN

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

## KEYED NOTES

- **E1** EVERY LINEAR RUN OF SLED FIXTURES REQUIRES A DEDICATED WHIP KIT PROVIDED WITH FIXTURE. CONTRACTOR TO FIELD VERIFY FIXTURE MOUNTING HEIGHT, LOCATION, QUANTITY, FIXTURE LENGTHS, AND ALL ELECTRICAL CONNECTION REQUIREMENTS WITH SECURITY LIGHTING PRIOR TO ORDERING AND INSTALLATION (TYPICAL).
- **E2** WEATHER PROOF RECEPTACLES WITH GFCI PROTECTION ARE PROVIDED AND MOUNTED WITHIN MOTOR HOUSING LOCATIONS PER NEC ARTICLE 210.63. CIRCUIT SHALL EMANATE FROM PANEL AP-5,CCT.#13.(TYPICAL).
- **E3** SMOOTH BRACING IS REQUIRED FOR LED FIXTURE INSTALLATION UNDER COPING/FLASHING.(TYPICAL)
- **E4** REFER TO SHEET E4.0 FOR CONDUIT AND WIRE SIZE.(TYPICAL)
- **E5** E.C SHALL PROVIDE A WEATHER-PROOF J-BOX ON INSIDE FACE OF PARAPET, MOUNTED 6" BELOW TOP OF PARAPET FOR LIGHTING CONTROL PANEL PHOTOCELL. (PHOTOCELL FURNISHED BY OTHERS AND INSTALLED BY EC). REFER TO LIGHTING CONTROL DETAILS ON E4.1
- **E6** TO LIGHTING ENCLOSURE W/ TIMER. COORDINATE WITH LIGHTING CONTROL DETAILS ON SHEET E4.1
- **E7** COOKING EQUIPMENT EXHAUST FANS. SEE SHEET E3.0 FOR ELECTRICAL REQUIREMENTS. SEE SHEET E3.2 FOR EXHAUST FAN INTERLOCK WIRING DIAGRAMS. (TYPICAL)
- **E8** PROVIDE NEMA 3R DISCONNECT WITH CURRENT LIMITING FUSES TO COMPLY WITH NEC 110 AND 440. ELECTRICAL CONTRACTOR SHALL STUB UP THRU RACEWAY IN CURB TO ELIMINATE CONDUIT PENETRATION OF ROOFING. (TYPICAL)
- **E9** EXTERNAL NEMA 3R MOUNTED ON SIDE OF FAN BY MANUFACTURER. ELECTRICAL CONTRACTOR SHALL STUB-UP THRU ROOF AND PROVIDE FLEXIBLE WEATHERPROOF CONDUIT FROM ROOF PENETRATION TO DISCONNECT (TYPICAL).
- **E10** REMOTE CONDENSING UNITS. SEE SHEET E3.0 FOR WIRING AND CIRCUITRY REQUIREMENTS.
- **E11** CANOPY LIGHT. LP-1:11 EC SHALL VERIFY EXACT SPECIFICATIONS AND LOCATION WITH MANUFACTURER. VERIFY EXACT INFEED REQUIREMENTS IN THE FIELD. SEE NOTE L5 ON SHEET E3.1. (TYPICAL)
- **E12** E.C. SHALL PROVIDE A WEATHER-PROOF JUNCTION BOX WITH ¾"C STUB DOWN TO CEILING SPACE WITH BUSHING FOR ROOF-TOP CAMERA OR SATELLITE. VERIFY EXACT LOCATION(S) WITH MCD AREA CONSTRUCTION MANAGER PRIOR TO INSTALLATION.
- **E13** E.C. SHALL PROVIDE A JUNCTION BOX FOR ARCH LOGO / McDONALD'S FASCIA / PLAY-PLACE SIGN. SEE NOTE L1 ON SHEET E3.1. COORDINATE EXACT LOCATION IN FIELD WITH ACM. ALL SIGNS PROVIDED WITH INTEGRAL DISCONNECT SWITCH FROM MANUFACTURER.(TYPICAL)
- **E14** E.C. SHALL PROVIDE A JUNCTION BOX FOR ROOF-TOP FLAG POLE LIGHTING. VERIFY LOCATION(S) WITH MCD PROJECT MANAGER PRIOR TO INSTALLATION.
- **E15** FLOOD LIGHT MOUNTED ABOVE CANOPY. LP-1:11 EC SHALL VERIFY EXACT SPECIFICATIONS AND LOCATION WITH ARCHITECTURAL ELEVATIONS. VERIFY EXACT INFEED REQUIREMENTS IN THE FIELD. SEE FLOOD LIGHT DETAIL ON SHEET E3.1. (TYPICAL)

## DRAWING NOTES

1. SEE DRAWING M-4.0 FOR GENERAL MECHANICAL NOTES.
2. SEE DRAWINGS M-3.0 AND M-4.1 FOR MECHANICAL EQUIPMENT SCHEDULES AND DETAILS.
3. SEE DRAWING M-4.0 FOR MECHANICAL LEGEND.
4. SEE DRAWING K-2.1 FOR REMOTE CONDENSER AND MAC UNIT INFORMATION.
5. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

### LED GENERAL NOTES

1. PLACE LED FIXTURE AT DESIRED LOCATION AND ATTACH POWER SUPPLY AND MOUNTING BRACKET AS RECOMMENDED BY MANUFACTURER.
2. EC SHALL CONNECT NEW FIXTURES TO A 120V CIRCUIT AND MAKE ALL ELECTRICAL CONNECTIONS AS REQUIRED FOR A COMPLETE OPERATING SYSTEM.
3. POWER SUPPLY SHALL ALWAYS BE INSTALLED TO THE LEFT SIDE OF FIXTURE WHEN FACING BRAND WALL.

## LED FIXTURE SCHEDULE:

| MARK | SYMBOL | DESCRIPTION | DIFFUSER | LAMPS | | BALLAST | MOUNTING | MANUFACTURER AND CATALOG NUMBER |
|---|---|---|---|---|---|---|---|---|
| | | | | WATTS | TYPE | | | |
| SLED2-HE | ▬ | DOWN ONLY ACCENT LIGHTING (SEE PLAN) | TEMPERED GLASS | 1-10W PER FIXTURE | LED | – | SURFACE | SECURITY LIGHTING: SLED-HE-24-DO-U-IO CUSTOM BUILT FOR EXTERIOR ACCENT CHANNELS. |
| SLED3-HE | ▬ | DOWN ONLY ACCENT LIGHTING (SEE PLAN) | TEMPERED GLASS | 1-14W PER FIXTURE | LED | – | SURFACE | SECURITY LIGHTING: SLED-HE-36-DO-U-IO CUSTOM BUILT FOR EXTERIOR ACCENT CHANNELS. |
| SLED4-HE | ▬ | DOWN ONLY ACCENT LIGHTING (SEE PLAN) | TEMPERED GLASS | 1-19W PER FIXTURE | LED | – | SURFACE | SECURITY LIGHTING: SLED-HE-48-DO-U-IO CUSTOM BUILT FOR EXTERIOR ACCENT CHANNELS. |
| FL1 | ▭ | UP ONLY ACCENT LIGHTING (SEE PLAN) | TEMPERED GLASS | 1-16W PER FIXTURE | LED | – | SURFACE | SECURITY LIGHTING: EL218-W-5-8L-5K-UV-IO-JWIO |

PROJECT No. 60734777 Task: 032-0312

DATE: ..... | REV | DATE | DESCRIPTION

PREPARED BY:
AECOM
Technical Services
ENGINEERS, Inc.
6000 Fairview Road, Suite 200
Charlotte, NC 28210
License number F-0342
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PREPARED FOR:
**McDonald's USA, LLC**

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DRAWN BY: –
STD ISSUE DATE: 2023 11
REVIEWED BY: QA
DATE ISSUED: 9/6/2024

TITLE: 2024 STANDARD BUILDING – BB20
4584-WOOD/WOOD
DESCRIPTION: WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & CI
WOOD TRUSS ROOF FRAMING
BRICK / ALPOLIC PANEL
NSN: 10721
SITE ADDRESS: 102 W CORNELIUS HARNETT BLVD
LILLINGTON, NC
L/C: 032-0312

SHEET NO.: 032-0312.00.0
**E2.1**
ELEC. ROOF PLAN

PB = Pullbox
JB = Junction Box
EC = Electrical Contractor

VIF = Verify in Field

# ELECTRICAL SCHEDULE

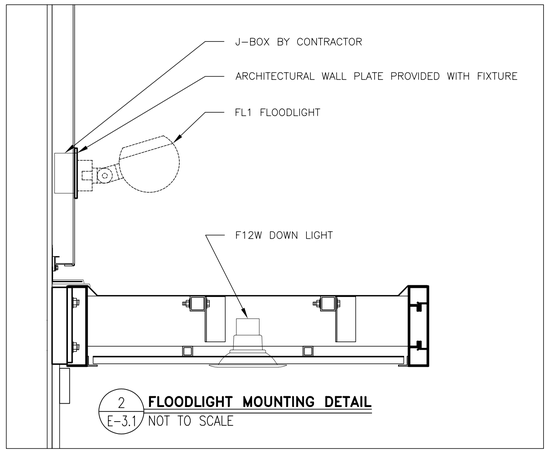
| TAG # | QTY | DESCRIPTION | VOLT/PH | FLA | BRK SIZE | COND/WIRE | PNL/CCT | RECEP TYPE | HGT AFF | REQUIREMENTS & REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| 004.20E6 | 1 | DIGITAL MERCHANDISER | 120/1 ISOLATED | 2.6 | 20A | 1/2"C-2#12IG | CP:6 | IG5262 | 6'-5" | - |
| 004.23E1 | 1 | DIGITAL MERCHANDISER - MEDIA PLAYER | 120/1 ISOLATED | 1.0 | 20A | 1/2"C-2#12IG | CP:6 | IG5262 | 6'-5" | USE SAME RECEPTACLE AS 4.20E6 |
| 004.23E2 | 1 | DIGITAL MERCHANDISER - MEDIA PLAYER | DATA CABLE | - | - | - | - | JB | 6'-5" | JB W/ 1" C. TO FULL HEIGHT WALL AND TO ABOVE CEILING W/BUSHINGS. FOR DATA CABLES. SUPPLY W/GROMMETED OPENING IN COVER PLATE |
| 009.15E1 | 1 | UTILITY CHASE - FFDT INTERIOR WALL | - | - | - | - | - | - | SEE RMKS | UTILITY CHASE AND RECEPTACLES PROVIDED BY K.E.S. |
| 009.16E1 | 1 | UTILITY CHASE - FFDT EXTERIOR WALL | - | - | - | - | - | - | SEE RMKS | UTILITY CHASE AND RECEPTACLES PROVIDED BY K.E.S. |
| 020.01E1 | 2 | AUTOMATED BEVERAGE SYSTEM 2.0 | 120/1 | 5.0 | 20A | 1/2"C-2#12 | AP-1:12, AP-2:24 | 5-20R | 2'-0" | - |
| 020.01E2 | 2 | AUTOMATED BEVERAGE SYSTEM 2.0 | 120/1 | 14.9 | 20A | 1/2"C-2#12 | AP-1:6, AP-2:26 | 5-20R | 3'-10" | FOR PRE-COOLER |
| 021.01E3 | 3 | COFFEE BREWER (THERMAL POTS) | 120-208/1 | 15.5 | 20A | 1/2"C-3#12 | AP-1:(2,4)(14,16), AP-5:(20,22) | BY KES | SEE RMKS | EC TO EXTEND CIRCUIT TO L14-20R RECEPTACLE IN CHASE |
| 023.10E1 | 1 | ESPRESSO BREWER | 208/1 | 21.6 | 30A | 1/2"C-2#10 | AP-1:(19,21) | BY KES | SEE RMKS | EC TO EXTEND CIRCUIT TO L6-30R RECEPTACLE IN CHASE |
| 023.12E1 | 1 | COFFEE CREAM DISPENSER | 120/1 | 1.0 | 20A | 1/2"C-2#12 | AP-1:8 | BY KES | SEE RMKS | EC TO EXTEND CIRCUIT TO 5-20R RECEPTACLE IN CHASE |
| 023.14E1 | 1 | SUGAR/SWEETENER DISPENSER | 120/1 | 1.5 | 20A | 1/2"C-2#12 | AP-1:8 | BY KES | SEE RMKS | EC TO EXTEND CIRCUIT TO 5-20R RECEPTACLE IN CHASE |
| 024.02E1 | 1 | JUICE DISPENSER | 120/1 | 4.5 | 20A | 1/2"C-2#12 | AP-1:8 | 5-20R | SEE RMKS | EC TO EXTEND CIRCUIT TO 5-20R RECEPTACLE IN CHASE |
| 025.07E1 | 1 | INFUSION TEA BREWER - MIS | 120-208/1 | 13.0 | 20A | 1/2"C-3#12 | AP-2:(32,34) | L14-20R | 2'-3" | - |
| 025.07E2 | 1 | INFUSION TEA BREWER - MIS | - | - | - | - | - | JB | 2'-3" | FOR WATER LINE TO ICED TEA BREWER IF CHASE IS NOT SPECIFIED. (SEE P1.6) |
| 031.03E1 | 1 | SODA SYSTEM PACKAGE - B.I.B. (RECIRCULATING- 3 TOWERS) | 208/3 | 26.0 | 30A | 3/4"C-3#10 | AP-2:(37,39,41) | SEE RMKS | 3'-0" SEE RMKS | EC SUPPLIES 30A-3P NF DISC SW MTD 9" BELOW CEILING PER NEC SECT. 404.8(A) |
| 031.03E2 | 1 | SODA SYSTEM PACKAGE - B.I.B. (RECIRCULATING- 3 TOWERS) | - | - | - | - | - | JB | 4'-0" | FOR CONTROL WIRES FROM REMOTE CONDENSING UNIT |
| 031.03E3 | 1 | SODA SYSTEM PACKAGE - B.I.B. (RECIRCULATING- 3 TOWERS) | 120/1 | (2) 6.8 | 20A | 1/2"C-2#12 | AP-2:35 | 5-20R | 6'-6" | FOR WATER BOOSTER SYSTEM AND OPTIONAL AIR COMPRESSOR |
| 032.02E1 | 1 | REVERSE OSMOSIS WATER FILTRATION SYSTEM - TANKLESS | 120/1 | 4.0 | 20A | 1/2"C-2#12 EA. | AP-2:23 | 5-20R | 6'-0" | - |
| 032.04E1 | 1 | WATER FILTRATION SYSTEM | 120/1 | 0.08 | 20A | 1/2"C-2#12 EA. | AP-2:23 | 5-20R | 6'-0" | - |
| 037.03E1 | 2 | CO2 SAFETY SYSTEM - DETECTOR | 120/1 | 1.0 | 20A | 1/2"C-2#12 | AP-1:10 | JB | SEE RMKS | PROVIDE LOCKOUT CB. SEE MECHANICAL DRAWINGS |
| 037.03E2 | 2 | CO2 SAFETY SYSTEM | - | - | - | - | - | JB | SEE RMKS | FOR LV WIRES. STUB 3/4"C. ABV. CLG. SEE MECHANICAL DRAWINGS |
| 037.03E4 | 4 | CO2 SAFETY SYSTEM - CO2 DETECTOR AV ALARM | - | - | - | - | - | JB | 7'-0" MINIMUM | STUB 3/4"C. ABOVE CLG. FOR LV COND. TO 037.03E2. SEE MECHANICAL DRAWINGS |
| 038.00E1 | 1 | CLEAN IN PLACE PANEL | 120/1 | 1.0 | 20A | 1/2"C-2#12 | AP-2:21 | 5-20R | 5'-6" | - |
| 039.10E1 | 1 | ICE MACHINE - 1400 LB. | 208/3 | 13.4 | 20A | 1/2"C-3#12 | AP-2:(1,3,5) | SEE RMKS | SEE RMKS | EC SUPPLIES 30A-3P NF DISC SW MTD9"BELOW CEILING PER NEC 404.8(A) EX.2 VERIFY W/ AHJ |
| 039.10E2 | 1 | ICE MACHINE - 1400 LB. | - | - | - | - | - | JB | 4'-6" SEE RMKS | CONTROL WIRES TO REMOTE CONDENSER |
| 039.15E1 | 2 | ICE MACHINE - 1000 LB. | 120/1 | 1.1 | 15A | 1/2"C-2#12 | AP-1:37,39 | 5-20R | SEE RMKS | MOUNT 9" BELOW CEILING - CIRCUIT BREAKERS SHALL BE HACR TYPE |
| 039.15E2 | 2 | ICE MACHINE - 1000 LB. | - | - | - | 1/2"C | - | JB | SEE RMKS | MOUNT 9" BELOW CEILING - CONTROL WIRES TO REMOTE CONDENSER |
| 041.06E1 | 1 | ICE MACHINE REMOTE CONDENSER - 1400 LB. | 208/1 | 1.0 | 20A SEE RMKS | 1/2"C-3#12 | AP-1:(26,28) | SEE RMKS | SEE RMKS | EC TO PROVIDE WP 30A-2P NF DISC AT UNIT ON ROOF - CIRCUIT BREAKERS SHALL BE HACR TYPE |
| 041.09E1 | 2 | ICE MACHINE REMOTE CONDENSER - 1000 LB. | 208/3 | 11.1 | 15A SEE RMKS | 1/2"C-3#12 SEE RMKS | AP-1:(32,34,36)(38,40,42) | SEE RMKS | SEE RMKS | EC TO PROVIDE WP 30A-3P NF DISC AT UNIT ON ROOF - CIRCUIT BREAKERS SHALL BE HACR TYPE |
| 043.21E1 | 1 | OPTIMIZED ORDER ASSEMBLY TABLE | 120/1 | 5.4 | 20A | SEE RMKS | KES BREAKER PANEL | SEE RMKS | SEE RMKS | PLUGS INTO KES OUTLET CHASE FOR HLA |
| 052.01E1 | 1 | SODA SYSTEM PACKAGE REMOTE CONDENSER - 3-TOWER | 208/1 | 2.5 | 20A SEE RMKS | SEE RMKS | SEE RMKS | SEE RMKS | SEE RMKS | EC TO PROVIDE 30A-2P DISC SW W/15A FUSE - POWERED BY 31.03 - LOCATION BY ACM |
| 052.01E2 | 1 | SODA SYSTEM PACKAGE REMOTE CONDENSER - 3-TOWER | - | - | - | - | - | - | SEE RMKS | CONTROL WIRES TO SODA SYSTEM - LOCATION BY ACM |
| 061.00E1 | 1 | FRY BAGGING STATION 36" | 120/1 | 12.5 | 20A | 1/2"C-2#12 | AP-1:31 | JB | 4'-0" | - |
| 073.00E1 | 1 | UNIVERSAL EXHAUST HOOD 3-VAT FRYER | 120/1 | 12.5, 9.8 | (2)20A-1P | 1/2"C-2#12EA | AP-1:23,24 | BY KES | SEE RMKS | EC TO CONN POWER TO RACEWAY FLA = 12.0 FRYER CONTROLS, 0.5 CAPTURE JET & 9.8 INDIVID. EXHAUST FAN INTERLOCK |
| 079.23E1 | 1 | UNIVERSAL EXHAUST HOOD FULL-CLAM/4-VAT FRYER | 120/1 | 17.6, 13.8 | (2)20A-1P | 1/2"C-2#12EA | AP-1:29,41 | BY KES | SEE RMKS | EC TO CONN POWER TO RACEWAY FLA=3.6 GRILL,13.0 FRYER CONTROLS, 1.0 CAPTURE JET & 13.8 INDIVID EXHAUST FAN INTERLOCK |
| 079.26E2 | 2 | VENTLESS HOOD COMBI OVEN | 120/1 | 8.0 | 15A | 1/2"C-2#12 | AP-4:14,16 | BY KES | SEE RMKS | EC TO EXTEND DEDICATED CIRCUIT TO 5-15R RECEPTACLE IN CHASE |
| 085.05E1 | 1 | FROZEN FRY DISPENSER | 120/1 | 9.0 | 20A | 1/2"C-2#12 | AP-1:27 | 5-20R | 4'-0" | - |
| 091.02E1 | 1 | WALL MOUNT FREEZER UNIT-SINGLE WIDE-HIGH CAPACITY | 120/1 | 5.0 | 20A | 1/2"C-2#12 | AP-5:23 | 5-20R | 7'-6" | - |
| 093.00E1 | 1 | UNIVERSAL EXHAUST HOOD FULL-CLAM GRILL | 120/1 | 13.9 | 20A | 1/2"C-2#12 | AP-2:17 | BY KES | SEE RMKS | EC TO CONN. POWER TO RACEWAY FLA = 3.6 GRILL CONTROLS, 0.5 CAPTURE JET & 9.8 INDIVID. EXHAUST FAN INTERLOCK |
| 096.21E1 | 2 | 36" NEXT GEN 3-PLATEN CLAMSHELL GRILL - ELECTRIC | 208/3 | 21.7, 43.3 | (2)50A | 1-1/2"C- 6#4 | AP-4:(1,3,5)(7,9,11) (13,15,17)(19,21,23) | BY KES | SEE RMKS | PLUGS IN RACEWAY RECEP WITH(1)L21-20P INTERLOCK& (2) 15-50P POWER PLUG EA GRILL |
| 097.08E1 | 1 | MEAT FREEZER - DOUBLE WIDE - HIGH CAPACITY - RIGHT HAND | 120/1 | 7.0 | 15A | 1/2"C-2#12 | AP-2:19 | 5-15R | SEE RMKS | UNIT PLUGS INTO RACEWAY RECEPTACLE |
| 114.00E1 | 1 | HUMIDIFIED HOLDING CABINET | 208/1 | 9.1 | 20A | 1/2"C-2#12 | AP-5:(34,36) | SEE RMKS | 5'-6" | PLUGS INTO OVERHEAD RECEPTACLE # 320C6W(B) PROVIDED BY KES - HEIGHT TO BOTTOM OF RECEPTCLE |
| 116.23E4 | 2 | UNIVERSAL HOLDING CABINET - HIGH DENSITY - 2-SIDED - PIN & SLEEVE | 208/1 | 15.2 | 20A | 1/2"C-2#12 | AP-5:(4,6)(8,10) | BY KES | 5'-6" | PLUGS INTO OVERHEAD RECEPTACLE # 320C6W(B) PROVIDED BY KES - HEIGHT TO BOTTOM OF RECEPTCLE |
| 117.30E1 | 1 | UHC TABLE COPL - 2 SIDED - 51"D x 34"W - PIN&SLEEVE | 120/1 | 2.0 | 20A | 1/2"C-2#12 | AP-5:12 | BY KES | 5'-6" | PLUGS INTO OVERHEAD RECEPTACLE # 320C4W(Y) PROVIDED BY KES- HEIGHT TO BOTTOM OF RECEPTACLE |
| 118.00E1 | 1 | Q'ING OVEN - PIN & SLEEVE | 208/1 | 15.4 | 20A | 1/2"C-2#12 | AP-2:(38,40) | SEE RMKS | 5'-6" | PLUGS INTO OVERHEAD RECEPTACLE # 320C6W(B) PROVIDED BY KES- HEIGHT TO BOTTOM OF RECEPTACLE |
| 118.03E1 | 2 | Q'ING OVEN - PIN & SLEEVE | 208/1 | 14.9 | 20A | 1/2"C-2#12 | AP-2:(18,20)(28,30) | SEE RMKS | 5'-6" | PLUGS INTO OVERHEAD RECEPTACLE # 320C6W(B) PROVIDED BY KES- HEIGHT TO BOTTOM OF RECEPTACLE |
| 122.27E1 | 1 | NEXT GEN. UNIVERSAL RADIANT TOASTER ?PIN & SLEEVE | 208/1 | 25.2 | 30A | 1/2"C-2#10 | AP-5:(27,29) | SEE RMKS | 5'-6" | PLUGS INTO OVERHEAD RECEPTACLE # 330C6W(B) PROVIDED BY KES- HEIGHT TO BOTTOM OF RECEPTACLE |
| 122.28E2 | 1 | NEXT GEN. UNIVERSAL CONTACT TOASTER ?PIN & SLEEVE | 208/1 | 25.2 | 30A | 1/2"C-2#10 | KES BREAKER PANEL | SEE RMKS | SEE RMKS | PLUGS INTO KES RACEWAY RECEPTACLE |
| 123.36E1 | 1 | ECU TABLE - COPL | 208/1 | 4.9 | 15A | SEE RMKS | KES BREAKER PANEL | SEE RMKS | SEE RMKS | PLUGS INTO KES OUTLET CHASE. |
| 123.37E1 | 1 | BREAKER PANEL- 125 AMP - 1 PHASE - EQUIPMENT MOUNTED | 120-208/1 | SEE RMKS | 125A | 1-1/2C"-3#1 | MDP:11 | - | | EC TO EXTEND AND CONNECT ELECTRICAL SERVICE. HARDWIRE TO KES BREAKER PANEL. |
| 123.40E1 | 1 | PREP TABLE - HD - 2-SIDED COPL - 38"D x 83 1/2" - PIN & SLEEVE W/ REF. | 120/1 | 10.0 | 20A | SEE RMKS | KES BREAKER PANEL | SEE RMKS | SEE RMKS | PLUGS INTO KES OUTLET CHASE. |
| 125.00E2 | 2 | RAPID BUN STEAMER | 208/1 | 14.3 | 30A | 1/2"C-2#10 | KES BREAKER PANEL | SEE RMKS | SEE RMKS | PLUGS INTO KES RACEWAY RECEPTACLE |
| 130.00E3 | 2 | COMBI OVEN | 208/3 | 15.1 | 30A | 1/2"C-3#10 | AP-4:(2,4,6)(8,10,12) | BY KES | SEE RMKS | EC TO EXTEND CIRCUIT TO L430R9 RECEPTACLE IN CHASE |
| 152.08E1 | 1 | WAREWASHER - HIGH TEMP | 208/3 | 26.9 EA. | (2)30A | 1/2"C-3#10 | AP-5(31,33,35)(37,39,41) | SEE RMKS | SEE RMKS | EC TO SUPPLY 30A-3P NF DISC SW HANDLE HGT. MTD @ 6'-7" AFF FOR EA. CCT PER NEC 404.8(A). LABEL "WAREWASHER (# OF 2)? |
| 163.02E1 | 4 | REMOTE ANSUL PULL | - | - | - | - | - | JB | SEE DETAILS | 4" OCTAGONAL, RACO #165 OR EQUAL MUST BE USED. |
| 171.01E1 | 1 | WALK-IN COOLER / FREEZER FLOORLESS | 120/1 | 10.0 | 20A | 1/2"C-2#12 | AP-2:14,16 | JB | FLUSH ON CLG | JB FOR LIGHTS & ]DOOR HEATER- UNSWITCHED LIGHT TO BE IN BOTH COOLER & FREEZER,EC TO CONNECT POWER |
| 171.01E2 | 1 | WALK-IN COOLER / FREEZER FLOORLESS | - | - | - | - | - | - | VIF | EC TO FURNISH & INSTALL CONDUIT,WIRE & LIGHT FIXTURES& OTHER DEVICES INSIDE COOLER/FREEZER BOX |
| 174.36E1 | 1 | REMOTE CONDENSING UNIT | 208/1 | 15.0 | 20A | 1/2"C-2#12 | AP-5:(38,40) | JB | VIF | EC TO PROVIDE 30A-2P NF DISC AT UNIT ON ROOF. CIRCUIT BREAKERS TO BE HARC RATED. |
| 174.36E2 | 1 | REMOTE CONDENSING UNIT | LOW VOLT WIRES | - | - | - | - | - | VIF | - |
| 174.45E1 | 1 | REMOTE CONDENSING UNIT | 208/3 | 24.7 | 40A | 3/4"C-3#8 | MDP:15 | JB | VIF | EC TO PROVIDE 60A-3P NF DISC AT UNIT ON ROOF. CIRCUIT BREAKERS TO BE HARC RATED. |
| 174.45E2 | 1 | REMOTE CONDENSING UNIT | LOW VOLT WIRES | - | - | - | - | - | VIF | - |
| 175.18E1 | 1 | COOLER EVAPORATOR | 208/1 | 1.0 | 20A | 1/2"C-2#12 | AP-6:(9,11) | JB | FLUSH ON CLG | - |
| 175.18E2 | 1 | COOLER EVAPORATOR | LOW VOLT WIRES | - | - | - | - | - | FLUSH ON CLG | L V WIRES CONN UNIT TO EVAPS & SHALL BE ROUTED SEPARATELY FROM POWER CONDUCTORS |
| 176.27E1 | 1 | FREEZER EVAPORATOR | 208/1 | 20.3 | 30A SEE RMKS | 1/2"C-2#10 | AP-6:(13,15) | JB | FLUSH ON CLG | - |
| 176.27E2 | 1 | FREEZER EVAPORATOR | LOW VOLT WIRES | - | - | - | - | - | FLUSH ON CLG | L V WIRES CONN UNIT TO EVAPS & SHALL BE ROUTED SEPARATELY FROM POWER CONDUCTORS |
| 177.03E2 | 1 | REACH-IN REFRIGERATOR-SINGLE WIDE | 120/1 | 2.7 | 20A | 1/2"C-2#12 | AP-2:31 | SEE RMKS | SEE RMKS | EC TO EXTEND CIRCUIT TO 5-20R RECEPTACLE IN CHASE |
| 178.05E1 | 3 | REACH-IN FREEZER-SINGLE WIDE | 120/1 | 11.0 | 20A | 1/2"C-2#12 | AP-1:25,30,35 | 5-20R | 7'-6" | - |
| 181.13E1 | 1 | REFRIGERATOR - SPECIALTY COFFEE- 27" WIDE | 120/1 | 3.9 | 20A | 1/2"C-2#12 | AP-2:22 | BY KES | SEE RMKS | EC TO EXTEND CIRCUIT TO 5-20R RECEPTACLE IN CHASE |
| 181.14E1 | 1 | REFRIGERATOR ? WORK TOP ?48?WIDE | 120/1 | 5.0 | 20A | 1/2"C-2#12 | AP-2:8 | 5-20R | 2'-0" | - |
| 183.00E1 | 2 | REFRIGERATOR/FREEZER - 2 DRAWER BASE - 30" W X 33" H | 120/1 | 5.0 | 20A | 1/2"C-2#12 | AP-5:1,3 | 5-20R | 2'-0" | - |
| 183.02E2 | 2 | REFRIGERATOR/FREEZER - 2 DRAWER BASE - 30" W X 30" H | 120/1 | 5.0 | 20A | 1/2"C-2#12 | AP-5:5,7 | BY KES | SEE RMKS | EC TO EXTEND CIRCUIT TO 5-20R RECEPTACLE IN CHASE |
| 183.02E3 | 1 | REFRIGERATOR/FREEZER - 2 DRAWER BASE - 30" W X 30" H | 120/1 | 5.0 | 20A | 1/2"C-2#12 | AP-5:9 | BY KES | 5'-6" | PLUGS INTO OVERHEAD RECEPTACLE # 320C4W(Y) PROVIDED BY KES- HEIGHT TO BOTTOM OF RECEPTACLE |
| 196.06E1 | 1 | SAFE - STANDARD BLDG. | 120/1 | 1.0 | 20A | 1/2"C-2#12 | AP-1:7 | 5-20R | 2'-0" | PROVIDE LOCKOUT TYPE CB |
| 196.08E1 | 1 | BOCA | 120/1 ISOLATED | 8.2 | 20A | 1/2"C-2#12IG | CP:33 | IG5262 | 2'-0" | - |
| 196.08E2 | 1 | BOCA | 120/1 ISOLATED | 1.8 | 20A | 1/2"C-2#12IG | CP:33 | IG5262 | 2'-0" | - |
| 196.08E3 | 1 | BOCA | DATA CABLE | - | - | 2" C | - | 4x4x4 PB | 2'-0" | EXTEND 2" CONDUIT ABOVE CLG. W/ BUSHING FOR DATA CABLES |
| 197.01E1 | 1 | HAND WASH TIMER | 120/1 | 0.1 | 20A | 1/2"C-2#12 | AP-1:33 | 5-20R | 4'-6" | - |
| 203.01E1 | 1 | HEAT TREAT COMBINATION SHAKE/SUNDAE MACHINE | 208/3 | 13.0 | 30A | 3/4"C-3#8 | AP-1:(18,20,22) | 4x4x4 PB | 1'-0" | RECEP #A460R9 BY KES, IF TAYLOR C602 IS ORDERED USE A 40A BRKR & #6 CONDUCTORS -EC MAKES FINAL CONN |

PB = Pullbox
JB = Junction Box
EC = Electrical Contractor

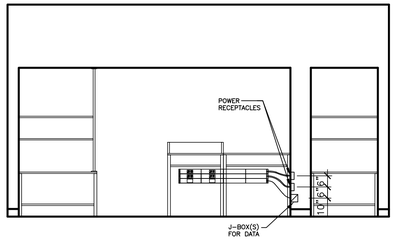
VIF = Verify in Field

ELECTRICAL SCHEDULE

| TAG # | QTY | DESCRIPTION | VOLT/PH | FLA | BRK SIZE | COND/WIRE | PNL/CCT | RECEP TYPE | HGT AFF | REQUIREMENTS & REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| 205.08E1 | 1 | BIC MACHINE | 120/1 | 8.6 | 20A | 1/2"C-2#12 | AP-2:29 | BY KES | SEE RMKS | EC TO EXTEND DEDICATED CIRCUIT TO 5-20R RECEP CHASE |
| 205.09E2 | 1 | FROZEN BEVERAGE DISPENSER | 208/1 | 20.0 | 30A | 1/2"C-2#10 | AP-5:(17,19) | SEE RMKS | SEE RMKS | RECEP L6-30R IN CHASE BY KES, EC MAKES FINAL |
| 207.01E2 | 1 | BLENDER - MCFLURRY - RAIL MOUNT | 120/1 | 1.2 | 20A | 1/2"C-2#12 | AP-2:7 | 5-20R | 4'-0" | |
| 210.00E10 | 1 | CASH RECYCLER | 120/1 ISOLATED | 4.4 | 20A | 1/2"C-2#12IG | CP:27 | (2) IG5262 | SEE RMKS | PROVIDE RECEP. IN COUNTER-MOUNTED RACEWAY |
| 210.00E4 | 1 | CASH RECYCLER | 120/1 ISOLATED | 4.4 | 20A | 1/2"C-2#12IG | CP:24 | (2) IG5262 | 2'-10" | - |
| 211.00E6 | 1 | DELIVERY TABLETS | 120/1 | 3.0 | 20A | 1/2"C-2#12 | AP-5:21 | (2) 5-20R | 5'-6" | - |
| 214.02E1 | 1 | TECHNOLOGY RACK | 120/1 ISOLATED | 5.0 | 20A | 1/2"C-2#12IG | CP:11 | IG4700 | 7'-6" | FOR SWITCHES, HUBS AND RADIUS |
| 214.02E3 | 1 | TECHNOLOGY RACK | 120/1 ISOLATED | 10.0 | 20A | 1/2"C-2#12IG | CP:15 | IG4700 | 3'-0" | FOR CASHLESS DEVICE UPS |
| 214.02E4 | 1 | TECHNOLOGY RACK | 120/1 ISOLATED | 12.0 | 20A | 1/2"C-2#12IG | CP:17 | IG4700 | 3'-0" | FOR POS SYSTEM UPS AND ORB CONTROLLER |
| 214.02E5 | 1 | TECHNOLOGY RACK | DATA CABLE | - | - | - | - | 8x6x4 PB | 7'-6" | EXTEND (2) 2 1/2" CONDUIT ABOVE CLG. W/BUSHING FOR DATA CABLES |
| 214.02E6 | 1 | TECHNOLOGY RACK | 120/1 ISOLATED | 14.0 | 30A | 1/2"C-2#10IG | CP:12 | L5-30R IG | 3'-0" | FOR POS SYSTEM UPS |
| 215.00E12 | 1 | POS REGISTER - FRONT COUNTER | 120/1 ISOLATED | 3.0 EA. | 20A | 3/4"C-2#12IG | CP:19 | IG4700 | SEE RMKS | PROVIDE IG RECEP. IN COUNTER-MOUNTED RACEWAY |
| 215.00E3 | 1 | POS REGISTER - FRONT COUNTER | DATA CABLE | - | - | - | - | 4x4x4 PB | 10" | EXTEND 2" CONDUIT TO ABOVE CEILING FOR POS DATA CABLES |
| 215.02E1 | 1 | POS REGISTER - 2 WINDOW D/T | 120/1 ISOLATED | 3.0 EA. | SEE RMKS | 1/2"C-2#12IG | SEE REMARKS | (2)IG4700 | 2'-5" | IN ORDER BOOTH, CONNECT TO CP:7 - IF INCLUDED IN PRESENTERS BOOTH, CONNECT TO CP:8 |
| 215.02E10 | 2 | POS REGISTER - 2 WINDOW D/T | 120/1 ISOLATED | 3.0 EA. | 20A | 1/2"C-2#12IG | CP:1 | BY KES | SEE RMKS | EC TO EXTEND CIRCUIT TO IG4700 RECEPTACLE IN CHASE |
| 215.02E12 | 1 | POS REGISTER - 2 WINDOW D/T | - | - | - | - | - | 18x12x4 PB | 10" | REFER TO D/T LOW VOLTAGE CONDUIT DIAGRAM FOR CONDUITS UNDER SLAB AND EXTEND (2) 2 1/2"C. TO ABOVE CLG. |
| 215.02E13 | 2 | POS REGISTER - 2 WINDOW D/T | - | - | - | - | - | 4x4x4 PB | 10" | EXTEND 1 1/2"C. UNDER SLAB TO 217.11E1 AND 2 1/2" C. TO ABOVE CEILING FOR POS DATA CABLES |
| 215.04E1 | 2 | POS - KVS MONITOR | 120/1 ISOLATED | 1.5 EA. | 20A | 1/2"C-2#12IG | CP:8 | IG4700 | FLUSH ON CLG | - |
| 215.04E4 | 2 | POS - KVS MONITOR | 120/1 ISOLATED | 1.5 | 20A | 1/2"C-2#12IG | CP:26 | SEE RMKS | SEE RMKS | EC TO EXTEND CIRCUIT TO IG4700 RECEPTACLE IN OEP |
| 215.04E5 | 2 | POS - KVS MONITOR | 120/1 ISOLATED | 1.5 EA. | 20A | 1/2"C-2#12IG | CP:3 | SEE RMKS | SEE RMKS | EC TO EXTEND CIRCUIT TO IG4700 RECEPTACLE IN CHASE |
| 215.04E7 | 3 | POS - KVS MONITOR | 120/1 ISOLATED | 1.5 EA. | 20A | 1/2"C-2#12IG | CP:23 | IG4700 | 5'-6" | - |
| 215.04E8 | 1 | POS - KVS MONITOR | DATA CABLE | - | - | - | - | 4x4x4 PB | 4'-0" | EXTEND 2" CONDUIT ABOVE CEILING. CABLE FURNISHED AND INSTALLED BY POS SYSTEM SUPPLIER |
| 215.07E1 | 1 | POS REGISTER - DELIVERY | 120/1 ISOLATED | 3.0 | 20A | 1/2"C-2#12IG | CP:23 | IG4700 | 3'-6" | |
| 215.07E3 | 1 | POS REGISTER - DELIVERY | - | - | - | - | - | 4x4x4 PB | 3'-6" | EXTEND 2" CONDUIT TO ABOVE CEILING FOR POS DATA CABLES |
| 216.00E13 | 2 | POS - VIDEO MONITOR | 120/1 ISOLATED | 1.5 EA. | 20A | 1/2"C-2#12IG | CP:3 | SEE RMKS | SEE RMKS | EC TO EXTEND CIRCUIT TO IG4700 RECEPTACLE IN CHASE |
| 216.00E14 | 4 | POS - VIDEO MONITOR | 120/1 ISOLATED | 1.5 EA. | 20A | 1/2"C-2#12IG | CP:9 | IG4700 | SEE RMKS | EXTEND CONDUIT DOWN GRILL HOOD SHROUD AND PROVIDE IG4700 RECEPTACLE |
| 216.00E7 | 3 | POS - VIDEO MONITOR | 120/1 ISOLATED | 1.5 EA. | 20A | 1/2"C-2#12IG | CP:1 | BY KES | SEE RMKS | EC TO EXTEND CIRCUIT TO IG4700 RECEPTACLE IN CHASE |
| 217.03E4 | 1 | POS - COD OPTICAL ISOLATOR | 120/1 ISOLATED | 1.0 | 20A | 1/2"C-2#12IG | CP:14 | IG5262 | 7'-6" | - |
| 217.10E1 | 2 | REMOTE DETECTOR LOOP | - | - | - | - | - | - | - | 1 1/2"CONDUIT-CONN TO PULLBOX#215.03E5,215.01E4, OR 215.02E12 PER DRIVE-THRU CONFIG-SEE SITE PLAN |
| 217.11E1 | 2 | DETECTOR LOOP | - | - | - | - | - | - | - | 1 1/2"CONDUIT-CONN TO PULLBOX#215.02E5,215.02E13, OR 215.02E4 PER DRIVE-THRU CONFIG-SEE SITE PLAN |
| 217.13E1 | 1 | MERGE POINT MONITOR (DOUBLE DRIVE THRU) | 120/1 | 2.0 | 20A | 1/2"C-2#12 | AP-1:11 | 5-20R | 3'-6" | DO NOT POWER FROM POS CIRCUIT |
| 217.13E2 | 2 | MERGE POINT MONITOR (DOUBLE DRIVE THRU) | 120/1 | 2.0 | 20A | 1/2"C-2#12 | AP-1:11 | BY KES | SEE RMKS | EC TO EXTEND CIRCUIT TO 5-20R RECEPTACLE IN CHASE |
| 217.14E1 | 1 | POS- VIDEO MONITOR (DOUBLE DRIVE THRU) | 120/1 ISOLATED | 1.5 | 20A | 1/2"C-2#12IG | CP:7 | IG4700 | 3'-6" | - |
| 217.18E1 | 3 | HAND HELD ORDER TAKER AND MANAGEMENT OF SHIFT EQUIPMENT | 120/1 | 5.0 | 20A | 1/2"C-2#12 | AP-1:15 | 5-20R | 4'-6" | - |
| 217.19E2 | 1 | WIRELESS HEADSET BASE STATION | 120/1 ISOLATED | 1.9 | 20A | 1/2"C-2#12IG | CP:1 | IG4700 | 4'-6" | |
| 217.19E3 | 1 | WIRELESS HEADSET BASE STATION | DATA CABLE | - | - | - | - | 4x4x4 PB | 5'-0" | |
| 217.24E1 | 1 | DANGER POINT MONITOR (DOUBLE DRIVE-THRU) | 120/1 | 2.0 | 20A | 1/2"C-2#12 | AP-1:11 | 5-20R | 8'-0" | DO NOT POWER FROM POS CIRCUIT |
| 217.26E1 | 1 | ZOOM TIMER | 120/1 ISOLATED | 6.0 | 20A | 1/2"C-2#12IG | CP:10 | (2) IG4700 | 7'-6" | - |
| 217.26E2 | 1 | ZOOM TIMER | DATA CABLE | - | - | - | - | JB | 7'-6" | JB W/ 1-1/2" C. TO TERMINATE ABOVE CEILING W/BUSHINGS. FOR DATA CABLES. SUPPLY W/ GROMMETED OPENING IN COVER PLATE |
| 219.00E10 | 1 | POS - RECEIPT PRINTER | 120/1 ISOLATED | 0.7 | 20A | 3/4"C-2#12IG | SEE RMKS | IG4700 | SEE RMKS | PROVIDE IG RECEP. IN COUNTER-MOUNTED RACEWAY, POWER FROM SAME CIRCUIT AS 215.00E12 |
| 219.00E3 | 1 | POS - RECEIPT PRINTER/CASHLESS | 120/1 ISOLATED | 0.7 | 20A | 1/2"C-2#12IG | CP:4 | IG4700 | 2'-0" | - |
| 219.00E7 | 2 | POS - RECEIPT PRINTER | 120/1 ISOLATED | 0.7 | 20A | 1/2"C-2#12IG | CP:3 | BY KES | SEE RMKS | EC TO EXTEND IG CIRCUIT TO IG4700 RECEPTACLE IN KES OUTLET CHASE. |
| 219.05E2 | 2 | STICKY LABEL PRINTER | 120/1 ISOLATED | 0.7 | 20A | 1/2"C-2#12IG | CP:1 | BY KES | SEE RMKS | EC TO EXTEND IG CIRCUIT TO IG4700 RECEPTACLE IN CHASE |
| 219.05E3 | 1 | STICKY LABEL PRINTER | 120/1 ISOLATED | 0.7 | 20A | 1/2"C-2#12IG | CP:3 | IG4700 | 3'-2" | - |
| 219.05E6 | 2 | STICKY LABEL PRINTER | 120/1 ISOLATED | 0.7 | 20A | 1/2"C-2#12IG | CP:3 | IG4700 | FLUSH ON CLG | - |
| 219.06E1 | 1 | LABELING SYSTEM | 120/1 ISOLATED | 2.0 | 20A | 1/2"C-2#12IG | CP:8 | IG5261 | 2'-0" | - |
| 220.00E1 | 1 | POS - COIN DISPENSER | 120/1 ISOLATED | 0.75 | 20A | 1/2"C-2#12IG | CP:7 | IG4700 | 2'-0" | - |
| 221.09E1 | 1 | O/O EQUIPMENT RACK | 120/1 ISOLATED | 4.0 | 20A | 1/2"C-2#12IG | CP:31 | IG5262 | 8'-0" | - |
| 221.09E2 | 1 | O/O EQUIPMENT RACK | DATA CABLE | - | - | 2" C | - | 4x4x4 PB | 8'-0" | EXTEND 2" CONDUIT ABOVE CLG. W/ BUSHING FOR DATA CABLES |
| 222.01E1 | 1 | TIME CLOCK | 120/1 ISOLATED | 0.5 | 20A | 1/2"C-2#12IG | CP:28 | IG4700 | 4'-0" | - |
| 222.01E2 | 1 | TIME CLOCK | DATA CABLE | - | - | - | - | JB | 4'-0" | EXTEND 1" CONDUIT ABOVE CEILING |
| 223.07E1 | 1 | WASHER | 120/1 | 8.0 | 15A | 1/2"C-2#12 | AP-1:13 | 5-15R | 3'-6" | - |
| 225.03E3 | 2 | OFFICE PACKAGE/DESK UNIT | 120/1 ISOLATED | 10.0 | 20A | 1/2"C-2#12IG | CP:20,22 | IG5262 | 4'-6" | FOR MONITOR, PRINTER AND THIN CLIENT |
| 225.03E4 | 1 | OFFICE PACKAGE/DESK UNIT | DATA CABLE | - | - | - | - | 4x4x4 PB | 4'-6" | EXTEND 2 1/2" CONDUIT ABOVE CLG. W/BUSHING FOR DATA CABLE |
| 237.00E2 | 1 | PIE DISPLAY | 120/1 | 4.7 | 20A | 1/2"C-2#12 | AP-5:24 | 5-20R | 5'-5" | - |
| 237.00E4 | 1 | PIE DISPLAY | 120/1 | 4.7 | 20A | 1/2"C-2#12 | AP-5:26 | BY KES | SEE RMKS | EC TO EXTEND CIRCUIT TO KES OUTLET IN CHASE |
| 700.07E1 | 1 | WATER HEATER - GAS | 120/1 | 4.0 | 20A | 1/2"C-2#12 | AP-2:11 | JB | SEE RMKS | EC TO VERIFY JB HEIGHT IN FIELD - EC TO PROVIDE PADLOCKABLE DEVICE AT CCT BRKR PER NEC 422.31 |
| 700.09E1 | 1 | ECONOMY OEP BOX W/MOU




2 **FLOODLIGHT MOUNTING DETAIL**
E-3.1 NOT TO SCALE

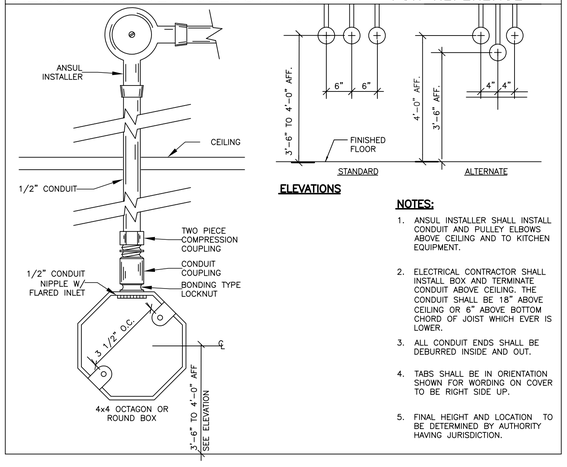



| SYMBOL | CATALOG # | DESCRIPTION |
|---|---|---|
| | HBLAUS70R & IG4700 | RECEPTACLE COVERPLATE WITH ORANGE, TWIST LOCK, ISOLATED GROUND DUPLEX RECEPTACLE |
| | HBLAUS70R & 5-20R FOR BAKED GOODS AND IG5262 FOR CASH | RECEPTACLE COVERPLATE WITH STRAIGHT BLADE RECEPTACLE |
| | HBLAUS7LPB | COMMUNICATIONS COVERPLATE |
| | HBLAUT620B02W290 | 2" SECTION OF RACEWAY, INCLUDES COUPLERS |
| | HBLAUT620B03W290 | 3" SECTION OF RACEWAY, INCLUDES COUPLERS |
| | HBLAUT61082MG | SERVICE ENTRANCE FITTING & BUSHING FOR DATA CABLES |
| | HBLAUT61108 | BLANK END FITTING |
| N/A | HBLAUS7017 | COUPLER (INCLUDED WITH RACEWAY SECTION) |
| N/A | HBLAUS7109 | GROUND ADAPTER |

NOTES:
1. REFER TO SERVICE POD MANUFACTURER INSTRUCTIONS FOR EXACT PLACEMENT OF RACEWAY
2. RACEWAY AND RECEPTACLES TO BE PROVIDED WITH SERVICE POD, INSTALLED BY CONTRACTOR.
3. DETAIL SHOWN IS A TYPICAL CONFIGURATION ONLY. SITE SPECIFICS MIGHT CAUSE DEVIATIONS.
4. PART NUMBERS SHOWN REFLECT HUBBELL, SOME SUPPLIERS MAY USE WIREMOLE EQUIVALENT.

1 **SERVICE POD RACEWAY DETAIL**
E-3.1 NOT TO SCALE

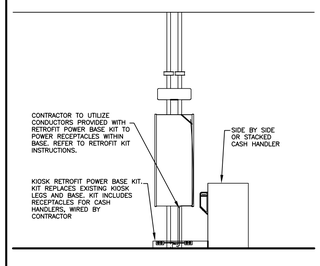
## REMOTE ANSUL PULL STATION FOR REFERENCE




**ELEVATIONS**

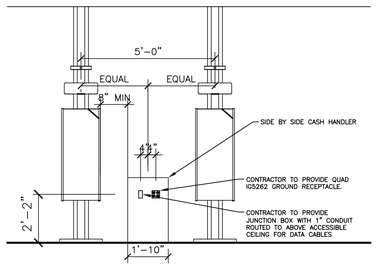
**NOTES:**

1. ANSUL INSTALLER SHALL INSTALL CONDUIT AND PULLEY ELBOWS ABOVE CEILING AND TO KITCHEN EQUIPMENT.
2. ELECTRICAL CONTRACTOR SHALL INSTALL BOX AND TERMINATE CONDUIT ABOVE CEILING. THE CONDUIT SHALL BE 18" ABOVE CEILING OR 6" ABOVE BOTTOM CHORD OF JOIST WHICH EVER IS LOWER.
3. ALL CONDUIT ENDS SHALL BE DEBURRED INSIDE AND OUT.
4. TABS SHALL BE IN ORIENTATION SHOWN FOR WORDING ON COVER TO BE RIGHT SIDE UP.
5. FINAL HEIGHT AND LOCATION TO BE DETERMINED BY AUTHORITY HAVING JURISDICTION.



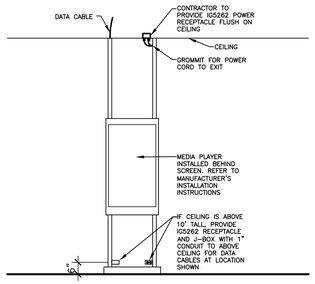

NOTES:
1. THIS EXAMPLE IS FOR A SIDE BY SIDE CASH HANDLER THAT DOES NOT HAVE A GC WALL BEHIND IT AND IS NEXT TO A KIOSK. IT IS ALSO INTENDED FOR ALL STACKED CASH HANDLERS.
2. EACH SIDE BY SIDE CASH HANDLER UTILIZES 3 PLUGS AND ADDS 4.4 AMPS OF LOAD TO THE KIOSK CIRCUIT.
3. EACH STACKED CASH HANDLER UTILIZED 2 PLUGS AND ADDS 3.6 AMPS OF LOAD TO THE KIOSK CIRCUIT.
4. ONLY 1 SIDE BY SIDE CAN BE CONNECTED TO A KIOSK, HOWEVER TWO STACKED UNITS CAN BE CONNECTED. REFER TO DECOR PLANS FOR EXACT CONFIGURATIONS.

5 **TYP. CASH HANDLER POWER DETAIL**
E-3.1 NOT TO SCALE




NOTES:
1. THIS EXAMPLE IS FOR A SIDE BY SIDE CASH HANDLER WITH THE REAR OF THE UNIT FACING A FULL HEIGHT GC BUILT WALL.
2. EACH SIDE BY SIDE CASH HANDLER UTILIZES 3 PLUGS AND ADDS 4.4 AMPS OF LOAD.

4 **CASH HANDLER POWER DETAIL W/REAR TO WALL**
E-3.1 NOT TO SCALE




NOTES:
1. DIGITAL MERCHANDISER CHANNELS ARE DESIGNED TO REACH UP TO A 10' CEILING. IF CEILING IS TALLER, EXTENDER KIT CAN BE ORDERED TO REACH 15'.

3 **FREESTANDING MERC POWER DETAIL**
E-3.1 NOT TO SCALE

# GENERAL ELECTRICAL NOTES:

## INSTALLATION METHODS:

M1. ALL ELECTRICAL MATERIAL USED ON THIS PROJECT SHALL BE "UL" LISTED AND LABELED.

M2. ALL DIMENSIONS SHOWN ARE TAKEN FROM FACE OF GYP BOARD/PLYWOOD. THE EC SHALL MAKE NECESSARY DIMENSIONAL ALLOWANCES. ALL DIMENSIONS SHOWN ARE TO CENTER LINE OF OUTLET BOX AND/OR RECEPTACLE UNLESS NOTED OTHERWISE.

M3. ALL J-BOXES, DCOs, AND OTHER ELECTRICAL DEVICES SHOWN SHALL BE RECESSED INTO A WALL, FLOOR OR CEILING UNLESS SPECIFICALLY NOTED OTHERWISE.

M4. ALL RECEPTACLES (EXCEPT SPECIFIED HUBBELL PIN & SLEEVE TYPES) SHALL BE FURNISHED BY THE EC. THE RECEPTACLES INCLUDING PIN AND SLEEVE TYPE SHALL BE INSTALLED BY THE EC.

M5. EC SHALL PROVIDE STAINLESS STEEL COVER PLATES ON ALL RECEPTACLES AND J-BOXES. ADDITIONALLY, EC SHALL PROVIDE ORANGE NYLON COVER PLATES MARKED "COMPUTER ONLY" ON ALL ISOLATED GROUND/DEDICATED CIRCUIT RECEPTACLES. PURCHASE PJ8CO (ONE DUPLEX) OR PJ82CO (TWO DUPLEX) FROM HUBBELL.

M6. ROUGH-INS FOR OPTIONAL EQUIPMENT ARE SHOWN ON THESE SHEETS. EC SHALL VERIFY WITH McDONALD'S PROJECT MANAGER WHICH OPTIONAL EQUIPMENT IS TO BE INCLUDED AND INSTALL OPTIONAL ROUGH-INS AS REQUIRED. PRICING FOR OPTIONAL ROUGH-INS SHALL BE INCLUDED IN BID AND CALLED OUT AS OPTIONAL.

M7. EC SHALL COORDINATE WITH KITCHEN EQUIPMENT SUPPLIER, MECHANICAL CONTRACTOR AND GC FOR FINAL LOCATIONS AND CONNECTION REQUIREMENTS OF ALL EQUIPMENT PRIOR TO INSTALLATION OF ANY CONDUIT AND/OR STUB-UP LOCATIONS.

M8. CEILING MOUNTED ECONOMY OEP BOX IS FURNISHED BY McDONALD'S, AND INSTALLED BY THE GC. CORD AND PLUG SET FURNISHED BY KES AND INSTALLED BY THE EC.

M9. FOR GRILLS, FRYERS, AND ANSUL SYSTEMS, EC SHALL EXTEND CONDUIT AND CONDUCTORS DOWN CHASE OR WALL TO TERMINAL BLOCK MOUNTED ON EQUIPMENT AND MAKE FINAL CONNECTIONS TO TERMINAL BLOCKS.

M10. ALL HOLES IN THE FRONT COUNTER FOR THE POS CORDS AND CABLES SHALL BE LOCATED BY OWNER AND DRILLED BY GC.

M11. ALL ELECTRICAL CONDUCTORS SHALL BE CONNECTED TO RECEPTACLES USING ONLY THE TERMINAL SCREWS. RECEPTACLE BACK WIRE/QUICK CONNECTIONS SHALL NOT BE USED.

M12. EC SHALL PROVIDE 208V HEAT TRACE ON THE FREEZER EVAPORATOR CONDENSATE DRAIN LINE. HEAT TRACE SHALL OPERATE CONTINUOUSLY. EC SHALL WIRE HEAT TRACE TO FREEZER EVAPORATOR POWER SUPPLY. A SEPARATE CIRCUIT FOR HEAT TRACE IS NOT REQUIRED. VERIFY HEAT TRACE REQUIREMENTS WITH EVAPORATOR MANUFACTURER

M13. POWER AND CONTROL CORDS ARE FURNISHED WITH KITCHEN APPLIANCES. THE EC SHALL CONNECT CORD SETS TO APPLIANCES AS REQUIRED.

M14. GC SHALL NOT INSTALL CEILING TILE IN AREAS OF THE BEVERAGE BAR REFRIGERATION LINES AND EQUIPMENT PENETRATION LOCATIONS UNTIL THE LINES HAVE BEEN INSTALLED. THE CEILING TILE INSTALLER SHALL RETURN AND INSTALL THE TILES AFTER THE REFRIGERATION LINES HAVE BEEN INSTALLED AND TESTED.

## UTILITIES:

U1. INCOMING SERVICE SHALL BE 208Y/120V, 3 PHASE, 4 WIRE. ANY DEVIATIONS TO THIS SERVICE TYPE SHALL NOT BE PERMITTED UNLESS APPROVED IN WRITING BY McDONALD'S.

U2. THE EC SHALL ARRANGE WITH THE ELECTRIC, TELEPHONE, AND OTHER UTILITY COMPANIES FOR INCOMING SERVICE REQUIREMENTS AND SHALL INCLUDE ALL COSTS IN BASE BID.

U3. THE EC SHALL VERIFY EXACT METHODS AND REQUIREMENTS FOR ELECTRICAL SERVICE WITH LOCAL UTILITY COMPANY. CURRENT TRANSFORMERS SHALL BE INSTALLED OUTSIDE RESTAURANT, LOCATE INSIDE ONLY IF REQUIRED BY UTILITY COMPANY OR LOCAL AUTHORITIES.

U4. PROVIDE CONCRETE PAD IF TRANSFORMER IS LOCATED ON GRADE AND PROVIDE SECONDARY SERVICE FEEDER AND CONDUITS TO PANEL MDP AS PER LOCAL UTILITY REQUIREMENTS.

U5. THE EC/GC/ACM SHALL OBTAIN AVAILABLE SHORT CIRCUIT CURRENT FROM THE LOCAL UTILITY COMPANY. THE EC/GC/ACM SHALL ADVISE IN WRITING (FAX SUPPLIER THE UTILITY LETTER) THE AVAILABLE AMP UNIT OF FAULT CURRENT. THE PANELBOARD SUPPLIER SHALL BE RESPONSIBLE TO VERIFY THAT THE ELECTRICAL EQUIPMENT SHIPPED HAS APPROPRIATE ELECTRICAL RATINGS WHICH ARE EQUAL TO OR GREATER THAN THE AVAILABLE AMOUNT OF FAULT CURRENT AT THE SITE.

U6. EC AND ACM OR OWNER/OPERATOR AND ACM SHALL COORDINATE WITH LOCAL PHONE COMPANY TO PROVIDE A 10 PAIR (OR MORE) COPPER TELEPHONE CABLE FROM THE TELEPHONE UTILITY EASEMENT TO THE RESTAURANT TELEPHONE DEMARCATION POINT. IF THE TELEPHONE PANEL/BOX IS LOCATED INSIDE THE RESTAURANT, EC SHALL PROVIDE (2) EMPTY 3/4" CONDUITS FROM THE TELEPHONE PANEL/BOX UP TO ABOVE THE CEILING FOR FUTURE TELEPHONE CABLE INSTALLATION. ADDITIONALLY, THE EC SHALL PROVIDE AN EMPTY 3/4" CONDUIT FROM THE TELEPHONE PANEL/BOX TO THE LOCATION OF THE FUTURE INTERNET SERVER (VERIFY LOCATION WITH PM). EC SHALL CONNECT, INSTALL AND INCORPORATE ALL OTHER REQUIREMENTS NECESSARY FOR COMPLETE AND OPERATIONAL TELEPHONE SYSTEM(S) FOR THIS SITE. THE REMAINING UNUSED TELEPHONE CONDUCTOR PAIRS SHALL BE CAPPED AND LEFT IN PLACE FOR FUTURE USE. THE TELEPHONE PANEL/BOX SHALL BE GROUNDED AS SHOWN IN THE "BUILDING ELECTRICAL GROUNDING DETAIL."

U7. EC SHALL PROVIDE A 4" SCHEDULE 40/80 PVC CONDUIT THAT IS SUITABLE FOR DIRECT BURIAL FROM BUILDING TO UTILITY EASEMENT/ROW IN UTILITY CABLING/CONDUIT TRENCH PROVIDED BY GC. CONDUIT SHALL RUN FROM INCOMING TELCOM LOCATION AT BUILDING TO TELECOM PEDESTAL LOCATION IN UTILITY EASEMENT/ROW. VERIFY EXACT LOCATIONS IN FIELD WITH AREA CONSTRUCTION MANAGER AND TELECOM UTILITY PROVIDER PRIOR TO INSTALLATION.

INSTALLATION NOTES:

1. IF TELCOM CONDUIT IS TERMINATED WITHIN BUILDING, PVC SHALL TRANSITION TO HWG/RMC TYPE CONDUIT PRIOR TO RISING ABOVE FINISHED SLAB.
2. PROVIDE THERMOPLASTIC BUSHINGS AT BOTH ENDS OF CONDUIT FOR CABLING PROTECTION.
3. IF 90 DEGREE BENDS ARE REQUIRED, CONTRACTOR SHALL PROVIDE WIDE SWEEPING BENDS TO PREVENT BENDING/DAMAGE TO CABLE
4. ALL COMMUNICATIONS CABLING SHALL BE PULLED VIA THIS CONDUIT.
5. INSTALL A MINIMUM OF 6 PULL WIRES IN CONDUIT TO ALLOW FOR THE INSTALLATION OF FUTURE CABLING. USE NON-DEGRADING POLYPROPYLENE OR MONOFILAMENT PLASTIC LINE OR #12 AWGT SOLID COPPER CONDUCTORS WITH NOT LESS THAN 200 LBF TENSILE STRENGTH. PROVIDE AT LEAST 12 INCHES OF SLACK AT EACH END OF PULL WIRE.
6. AFTER INSTALLATION OF COMMUNICATIONS CABLING AND PULLSTRINGS/WIRES, CONTRACTOR SHALL SEAL BOTH ENDS OF CONDUIT TO PREVENT INTRUSION FROM WEATHER, RODENTS, DEBRIS, ETC. SEAL SHALL BE OF TYPE TO ALLOW FOR REMOVAL FOR INSTALLATION OF FUTURE CABLING

## CONDUIT AND WIRE:

**W1.** THE FOLLOWING WIRING METHODS SHALL NOT BE USED: NON-METALLIC SHEATHED CABLE (ROMEX, NM, NMC, & NMS), ARMORED CABLE TYPE AC (BX), ELECTRICAL NON-METALLIC TUBING, TYPE ENT (SMURF-TUBE).

**W2.** CONDUIT RUNS MAY BE COMBINED EXCEPT WHERE ISOLATED GROUNDS ARE USED. IG CIRCUITS SHALL BE RUN IN SEPARATE CONDUITS. ALL HOME RUNS SHALL BE SIZED BASED ON DERATED CONDUCTOR AMPACITIES AND INCREASE CONDUIT AND WIRE SIZE AS REQUIRED BY NEC SECTION 310 REQUIREMENTS.

**W3.** CONDUIT SHALL HAVE A MAXIMUM OF 4 BENDS WITHOUT A JUNCTION BOX TO PREVENT DAMAGE TO CABLE DURING PULLING. THE EC SHALL PIGTAIL #12 PULL WIRE AT EACH END FOR INSTALLER TO PULL CABLE. ALL LOW VOLTAGE CONDUIT STUB-UPS SHALL BE PROVIDED WITH A BUSHING.

**W4.** MINIMUM WIRE SIZE SHALL BE #12 AWG COPPER UNLESS NOTED OTHERWISE. MINIMUM CONDUIT SIZE SHALL BE 1/2" UNLESS NOTED OTHERWISE. WIRES INSTALLED UNDERGROUND OR OUTDOORS SHALL BE THW.

**W5.** CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID COPPER. CONDUCTORS #8 AND LARGER SHALL BE STRANDED COPPER. ALUMINUM CONDUCTORS SHALL NOT BE UTILIZED FOR FEEDER OR BRANCH CIRCUIT DISTRIBUTION.

**W6.** RACEWAYS SHALL BE ANY OF THE FOLLOWING MATERIALS, INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES:

### OUTDOORS: (FOR SPECIFIC APPLICATIONS AND APPROPRIATE FITTINGS, SEE TABLE W6)

1. EXPOSED: RMC, IMC.
2. CONCEALED: RMC, IMC.
3. BELOW GRADE, SINGLE RUN: RNC, RMC.
4. BELOW GRADE, GROUPED: RNC, RMC.
5. CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC, ELECTRIC SOLENOID, OR MOTOR-DRIVEN EQUIPMENT): LFMC.
6. BOXES AND ENCLOSURES: NEMA 250, TYPE 3R OR 4.

### INDOORS: (FOR SPECIFIC APPLICATIONS AND APPROPRIATE FITTINGS, SEE TABLE W6)

1. EXPOSED: EMT, IMC.
2. CONCEALED: EMT, IMC.

(CONTINUED ON TOP)

3. CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC, ELECTRIC SOLENOID, OR MOTOR-DRIVEN EQUIPMENT): FMC; EXCEPT USE LFMC IN DAMP OR WET LOCATIONS.
4. DAMP OR WET LOCATIONS: RIGID STEEL CONDUIT.
5. BOXES AND ENCLOSURES: NEMA 250, TYPE 1, EXCEPT AS FOLLOWS: A. DAMP, WET OR KITCHEN LOCATIONS: NEMA 250, TYPE 4, STAINLESS STEEL.

### TABLE W6:

| LOCATION | 208V. | 480V. | LOW ENERGY* |
|---|---|---|---|
| EXPOSED | | | |
| INDOORS | < 1" EMT COMPRESS. FTGS >1.25" IMC THREADED FTGS | IMC THREADED FTGS | EMT COMPR. FTGS |
| OUTDOORS | RMC OR IMC THREADED FTGS | RMC OR IMC THREADED FTGS | RMC OR IMC THREADED FTGS |
| CONCEALED | | | |
| WALLS | <2" EMT SET SCREW FTGS >2.5" IMC THREADED FTGS | <2" EMT SET SCREW. FTGS >2.5" IMC THREADED FTGS | EMT 1/2"- 2" SET SCREW FTGS 2.5" – 4" COMPR. FTGS |
| AIR HANDLING CEILING/SPACE | <2" EMT COMPR. FTGS >2.5" IMC THREADED. FTGS | 2" EMT COMPR. FTGS < >2.5" IMC THREADED. FTGS | EMT COMPR. FTGS |
| NON AIR HANDLING CEILING/SPACE | <2" EMT SET SCREW FTGS >2.5" IMC THREADED. FTGS | <2" EMT COMPR. FTGS >2.5" IMC THREADED. FTGS | EMT 1/2" – 2" SET SCREW FTGS 2.5"- 4" COMPR. FTGS |
| BELOW GRADE | | | |
| INTERIOR | IMC THREADED FTGS OR SCHEDULE 40 OR 80 PVC | IMC THREADED FTGS | IMC THREADED FTGS SCHEDULE 40 OR 80 PVC |
| EXTERIOR | SCHEDULE 40 OR 80 PVC OR RMC THREADED FTGS | SCHEDULE 40 OR 80 PVC OR RMC THREADED FTGS | SCHEDULE 40 OR 80 PVC OR RMC THREADED FTGS |

**W7.** ALL CONDUITS PENETRATING THE FREEZER/COOLER BOX SHALL BE SEALED IN COMPLIANCE NEC SECTION 300 AND THE FREEZER/COOLER BOX MANUFACTURERS REQUIREMENTS.

**W8.** PROVIDE THREE (3) 3/4" EMPTY CONDUITS FROM PANEL LP-1 UP TO THE CEILING SPACE AND CAP FOR FUTURE USE.

## GROUNDING:

G1. ALL BRANCH AND FEEDER CIRCUITS SHALL BE GROUNDED BY TWO METHODS. THE FIRST METHOD SHALL INCLUDE AN INSULATED COPPER EQUIPMENT GROUNDING CONDUCTOR CONTAINED WITHIN THE SAME CONDUIT AS THE PHASE CIRCUIT CONDUCTORS AND SIZED PER NEC SECTION 250 REQUIREMENTS. THIS INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL HAVE ONE END PROPERLY TERMINATED AT THE EQUIPMENT GROUND BUS IN THE CORRESPONDING CIRCUIT BREAKER PANEL, AND THE OTHER END TERMINATED AT THE GROUNDING CONTACT OF A GROUNDING RECEPTACLE AND TO THE JUNCTION BOX OR TO AN EQUIPMENT CABINET, AS APPLICABLE. THE SECOND METHOD PROVIDES EQUIPMENT GROUNDING VIA METALLIC CONDUIT THAT IS CONNECTED AND TERMINATED IN FITTINGS LISTED FOR GROUNDING PER NEC SECTION 250 REQUIREMENTS. BOTH GROUNDING METHODS ARE REQUIRED IN A MCDONALD'S RESTAURANT. ISOLATED GROUND SHALL BE INSTALLED WHERE INDICATED ON PLAN AND AS SHOWN IN POS ISOLATED GROUND/DEDICATED CIRCUIT DETAIL ON SHEET E4.2.

**G2.** THE BUILDING GROUNDING SYSTEM SHALL COMPLY WITH NEC ARTICLE 250, MCDONALD'S SPECIFICATIONS, AND SHEET E4.2. CAUTION: IT IS A SAFETY HAZARD AND AN NEC VIOLATION TO HAVE ANY NEUTRAL TO GROUND CONNECTIONS BEYOND THE MAIN ELECTRICAL DISCONNECT MEANS. MCDONALD'S GROUNDING STANDARDS PURPOSELY EXCEED THOSE GIVEN BY THE NEC. THE EC SHALL PROVIDE A BUILDING GROUNDING SYSTEM MEETING NEC SECTION 250 REQUIREMENTS AS WELL AS MCDONALD'S STANDARDS.

**G3.** EC SHALL REFER TO "POS ISOLATED GROUND/DEDICATED CIRCUIT DETAIL, SHEET E4.2, FOR REQUIRED WIRING REQUIREMENTS OF COMPUTER PANEL CP.

**G4.** METAL RACEWAYS CONTAINING A GROUNDING ELECTRODE CONDUCTOR SHALL BE BONDED AT BOTH ENDS AS REQUIRED BY NEC SECTION 250 REQUIREMENTS.

## TEMPERATURE CONTROLS:

T1. REMOTE TEMPERATURE SENSORS: EC SHALL PROVIDE 1/2" CONDUIT FROM JUNCTION BOX ABOVE CEILING DOWN TO SENSOR MOUNTED AT 4'-0" TO 4'-6" AFF.

T2. SEE DETAIL ON SHEET M3.0. FOR SENSOR MOUNTING DETAIL. LOCATION OF WALL MOUNTED TEMPERATURE SENSORS ARE SHOWN ON SHEET M1.2 AND E2.0.

T3. WHEN WIRING FOR PROGRAMMABLE THERMOSTATS AND REMOTE SENSORS IS NOT IN A CONDUIT, THE WIRING SHALL BE RUN TO THE UNDERSIDE OF THE ROOF DECK. NONE OF THE WIRING SHALL BE ROUTED OVER FLUORESCENT BALLASTS, POWER BOXES OR IN A CONDUIT WITH LINE VOLTAGE WIRING AS ELECTRICAL INTERFERENCE (NOISE) WILL CAUSE ERRATIC CONTROL OPERATION. ALL THERMOSTATS SHALL BE MOUNTED 4'-0" AFF.

## FLAT PANEL TELEVISIONS:

TV1. EC SHALL PROVIDE A DUPLEX RECEPTACLE AND A LOW VOLTAGE BROADBAND CONNECTION FOR THE INSTALLATION OF FLAT PANEL TELEVISIONS. COORDINATE EXACT LOCATIONS WITH DECOR COMPANY. FOR BROADBAND CONNECTION, EC SHALL PROVIDE A 4 X 4 BOX WITH A 3/4" CONDUIT STUB-UP WITH A BUSHING INTO ACCESSIBLE CEILING SPACE.

## ELECTRICAL PANELS:

E1. THE EC SHALL BE RESPONSIBLE FOR BALANCING THE LOADS ON ALL PANELS.

E2. THE EC SHALL PROVIDE ELECTRICAL SERVICE TO THE EQUIPMENT MOUNTED BREAKER PANEL. SEE ELECTRICAL ROUGH-IN PLAN AND SCHEDULE FOR ALL REQUIREMENTS.

E3. THE EC SHALL BE RESPONSIBLE FOR THE PROPER IDENTIFICATION AND LABELING OF ALL CIRCUIT BREAKERS. EACH PANEL SHALL BE PROVIDED WITH AN ACCURATE TYPEWRITTEN CIRCUIT DIRECTORY AT THE CONCLUSION OF THE PROJECT AND PRIOR TO RESTAURANT OPENING.

## SECURITY AND DRIVE-THRU CAMERAS:

S1. EC TO PROVIDE ELECTRICAL POWER AND COMMUNICATION CONDUITS FOR BUILDING MOUNTED SECURITY AND DRIVE THRU CAMERAS. COORDINATE FINAL LOCATIONS WITH SECURITY AND DRIVE THRU CAMERA INSTALLERS.

## LIGHTING:

L1. PROVIDE A WEATHERPROOF JUNCTION BOX IN PARAPET FOR FASCIA SIGN. FINAL CONNECTION BY OTHERS.

L2. COORDINATE THE LOCATION OF JUNCTION BOX (IN THE WALL) WITH THE OPENING IN TRELLIS (FOR THE LIGHT FIXTURE WIRES). THE LOCATION OF THE JUNCTION BOX AND THE OPENING IN THE TRELLIS SHALL BE ALIGNED FOR THE LIGHT FIXTURE TO BE INSTALLED PROPERLY. COORDINATE INSTALLATION OF JUNCTION BOX AND ANY NECESSARY OPENINGS IN TRELLIS WITH GC AND TRELLIS/CANOPY MANUFACTURER. SEE LIGHT FIXTURE INSTALLATION INSTRUCTIONS FOR REQUIREMENTS REGARDING MOUNTING BRACKETS FOR USE IN C-CHANNEL TRELLISES.

L3. EC SHALL FIELD VERIFY THAT LIGHT FIXTURES DO NOT OBSTRUCT OR CONFLICT WITH THE WORK OF OTHER TRADES. IF A DISCREPANCY IS FOUND, THE EC SHALL IMMEDIATELY NOTIFY THE GC BEFORE THE THE INSTALLATION OF SUCH FIXTURE(S). EC SHALL COORDINATE LOCATIONS OF ALL LIGHT FIXTURES IN DINING AREA WITH FINAL SEATING AND DECOR PLANS.

L4. IF PC-POS CASH REGISTER SYSTEM IS INSTALLED, EC SHALL RELOCATE FIXTURES ABOVE FRONT COUNTER TO AVOID GLARE ON THE CASH REGISTER SCREENS. EC SHALL INSTALL CABLE WHIP TO FIXTURES SO THAT FIXTURE MAY BE RELOCATED FOUR FEET WITHOUT DISCONNECTING CABLE WHIP.

L5. EC SHALL COORDINATE LOCATION OF ALL EXTERIOR LIGHTS TO AVOID INTERFERENCE WITH ANY CORBELS, TRUSSES, BEAMS OR OTHER SPECIAL EXTERIOR TREATMENTS. INSTALL LIGHT FIXTURES WITH CORRECT ORIENTATION PER MANUFACTURER'S INSTRUCTIONS

L6. THE USE OF INTERLOCK TYPE "MC" CABLE IN LENGTHS OF 6 FEET OR LESS (WHERE PERMITTED BY LOCAL CODES) SHALL BE ALLOWED FOR WIRING TO INTERIOR LIGHTING FIXTURES. "ROMEX" OR "BX" SHALL NOT BE USED.

L7. EC SHALL VERIFY THAT NOT MORE THAN 3% VOLTAGE DROP EXISTS FROM THE LIGHTING PANEL TO ANY EXTERIOR LIGHTING FIXTURE OR SIGNAGE BALLAST.

L8. WHERE MCDONALD'S RESTAURANT HAS A PLAYPLACE, THE EC SHALL COORDINATE EXACT LOCATION OF PLAYPLACE LIGHTING WITH PLAYPLACE TOY VENDOR FOR MAXIMUM ILLUMINATION AND SAFETY PER THE FINAL LOCATION OF THE PLAYPLACE TOY. LIGHTING FIXTURES SHALL NOT BE MOUNTED TO THE TOY OR ANY PART OF THE TOY STRUCTURE.

L9. EC SHALL VERIFY ALL TAP SETTINGS FOR H.I.D. LIGHTING FIXTURES AND MAKE ANY NECESSARY CORRECTIONS PRIOR TO INSTALLATION.

| REV | DATE | DESCRIPTION |
|---|---|---|
| | | |

DATE:

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| DRAWN BY | RH |
| STD ISSUE DATE | 2023 11 |
| REVIEWED BY | GA |
| DATE ISSUED | 9/6/2024 |

TITLE: 2024 STANDARD BUILDING - BB20
4584-WOOD/WOOD
DESCRIPTION: WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & CI
WOOD TRUSS ROOF FRAMING
BRICK/ ALPOLIC PANEL
NSN: 10721
SITE ADDRESS: 102 W CORNELIUS HARNETT BLVD
LILLINGTON, NC
L/C: 032-0312

SHEET NO.: E3.1
032-0312.00.0
NOTES & DETAILS

**SEQUENCE OF OPERATION:**

1. TURNING "ON" ANY PIECE OF COOKING EQUIPMENT UNDER A HOOD WILL TURN ON THE EXHAUST FAN AND ASSOCIATED RTU PROVIDING MAKEUP AIR FOR THAT HOOD.
2. TURNING "OFF" THE LAST PIECE OF COOKING EQUIPMENT UNDER A HOOD WILL TURN OFF THE EXHAUST FAN FOR THAT HOOD.
3. IF THE ANSUL SYSTEM SHOULD DISCHARGE WHILE THE COOKING EQUIPMENT AND EXHAUST FAN ARE OPERATING, THE COOKING EQUIPMENT WILL BE SHUT OFF, BUT THE EXHAUST FAN WILL CONTINUE TO RUN AND WILL FORCE THE ROOFTOP UNITS INTO A "SCHEDULED" MODE
4. THE ANSUL SYSTEM MUST BE RECHARGED AND MANUALLY RESET BEFORE THE COOKING EQUIPMENT WILL AGAIN BE ABLE TO OPERATE.
5. THE ON/OFF SWITCH ON THE EXHAUST FAN IS NORMALLY KEPT IN THE "ON" POSITION. IF IT IS TURNED OFF FOR SERVICE, THE COOKING EQUIPMENT WILL TURN OFF AND NOT BE ABLE TO OPERATE UNTIL THE EXHAUST FAN ON/OFF SWITCH IS AGAIN TURNED ON.

## INTERLOCK DIAGRAM LEGEND

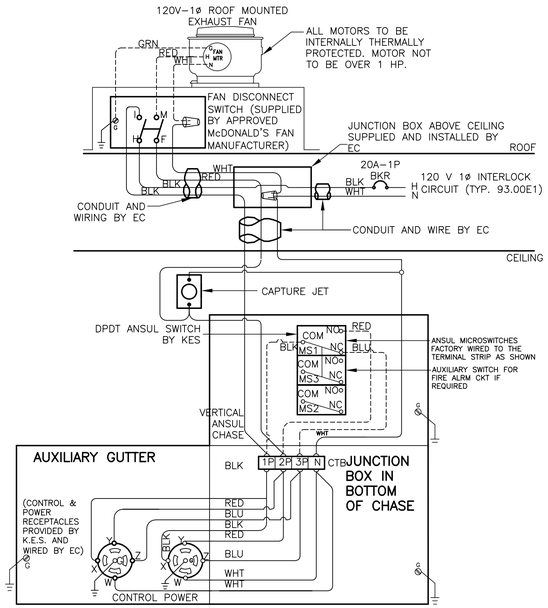
- ● TERMINAL BLOCK IN CHASE
- CTB – CHASE TERMINAL BLOCK. PROVIDED AND INSTALLED BY KITCHEN EQUIPMENT SUPPLIER
- ETB – EQUIPMENT TERMINAL BLOCK
- EFCR – EXHAUST FAN CONTROL RELAY. PROVIDED BY CONTRACTOR.
- IGR – INTERNAL GRILL RELAY PROVIDED WITHIN GARLAND GRILLS
- MS – ANSUL MICROSWITCH PROVIDED BY KITCHEN EQUIPMENT SUPPLIER
- >> CONTROL CORD PLUG & RECEPTACLE
- —— FIELD WIRING
- —— CONTROL CORD/INTERNAL WIRING
- - - - FACTORY WIRING
- —— EQUIPMENT OR ENCLOSURE

| COOKING EQUIPMENT EXHAUST FAN | MAKE UP PROVIDED BY |
|---|---|
| EF/1 | RTU–3 |
| EF/2 | RTU–1 |
| EF/3 | RTU–2 |

NOTE
RTU # ASSOCIATED WITH EACH EXHAUST FAN BASED ON PROTOTYPICAL VALUES ONLY. VERIFY THAT EXHAUST FAN ACTIVATES THE CORRESPONDING RTU TO PROVIDE AN ADEQUATE AMOUNT OF MAKEUP AIR.

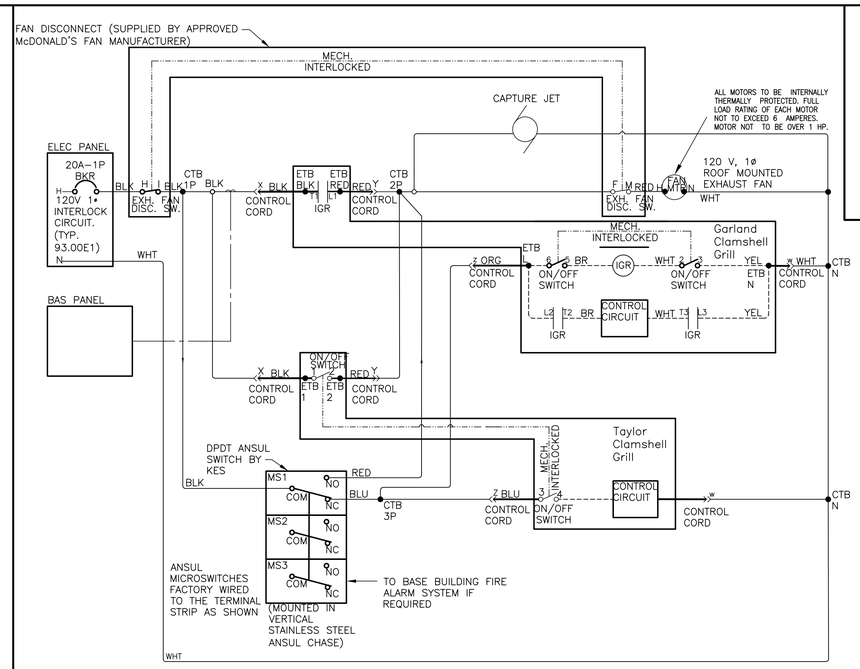
1 E-3.2 **TYPICAL MAKEUP AIR RTU EXHAUST FAN SCHEDULE**
FOR REFERENCE ONLY

REVISED: 6/18



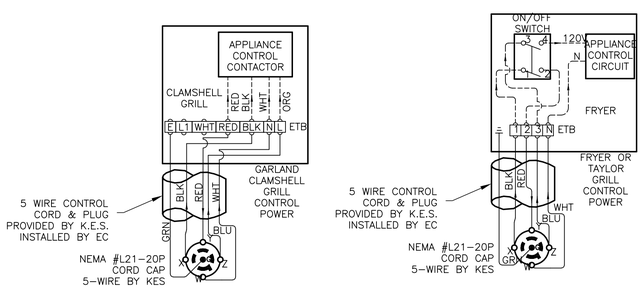

2 E-3.2 **INTERLOCK WIRING DIAGRAM FOR EXHAUST FAN AND COOKING EQUIPMENT**
FOR REFERENCE ONLY

REVISED: 6/18



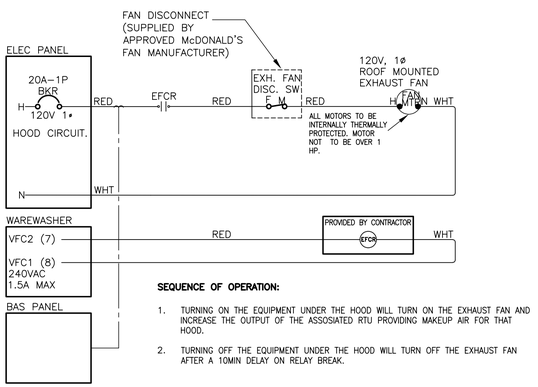

3 E-3.2 **INTERLOCK LADDER DIAGRAM**
FOR REFERENCE ONLY

REVISED: 6/18



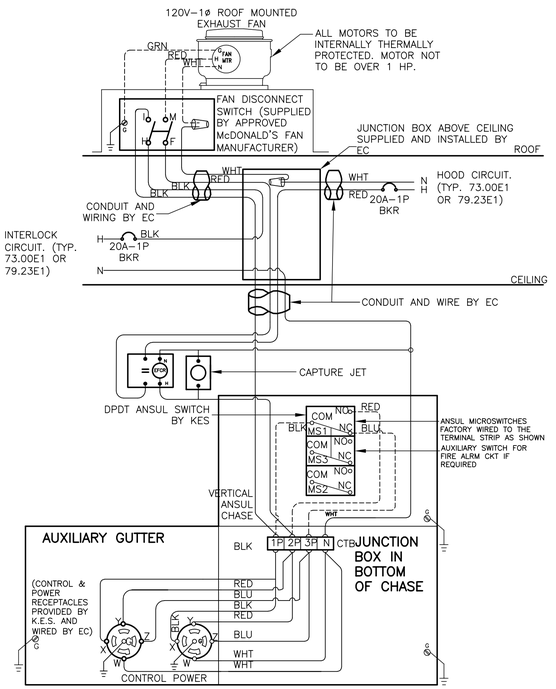

4 E-3.2 **CONTROL CORD CONNECTION**
FOR REFERENCE ONLY

REVISED: 6/18



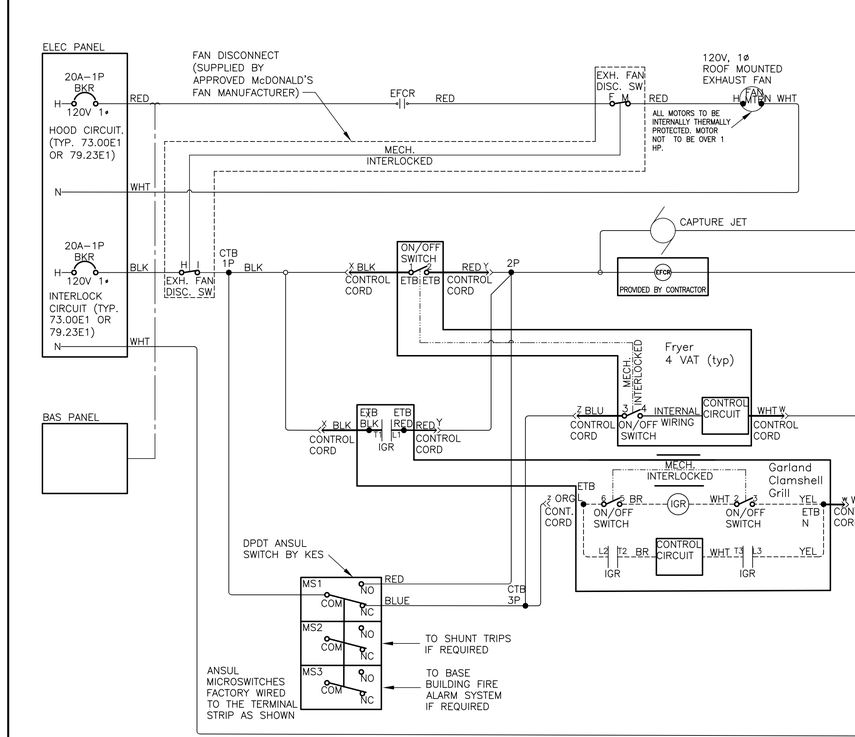

7 E-3.2 **INTERLOCK LADDER DIAGRAM FOR EXHAUST FAN AND WAREWASHER**
FOR REFERENCE ONLY

REVISED: 02/24




5 E-3.2 **INTERLOCK WIRING DIAGRAM FOR EXHAUST FAN AND COOKING EQUIPMENT**
FOR REFERENCE ONLY

REVISED: 6/18




6 E-3.2 **INTERLOCK LADDER DIAGRAM**
FOR REFERENCE ONLY

REVISED: 6/18

| REV | DATE | DESCRIPTION |
|---|---|---|
| | | |

DATE: .....

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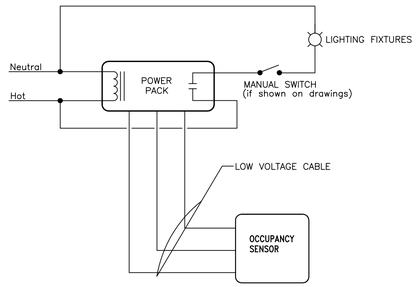
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DRAWN BY: STD ISSUE DATE 2023 11
REVIEWED BY: GA
DATE ISSUED: 9/6/2024

TITLE: 2024 STANDARD BUILDING – BB2B 4584–WOOD/WOOD
DESCRIPTION: WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & CI WOOD TRUSS ROOF FRAMING BRICK/ ALPOLIC PANEL
NSN: 10721
SITE ADDRESS: 102 W CORNELIUS HARNETT BLVD
LILLINGTON, NC
L/C: 032–0312

SHEET NO. E3.2
032–0312.00.0
INTERLOCK DIAGRAMS

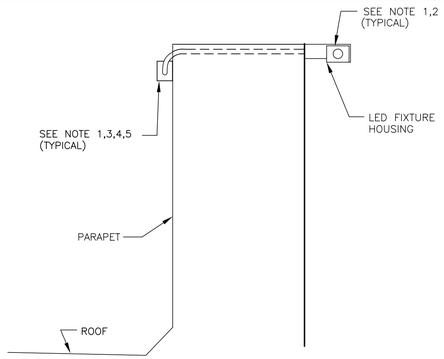
PROJECT No. 60734777 Task: 032–0312




NOTES:

1. REFER TO LIGHTING PLAN FOR OCCUPANCY SENSOR LOCATIONS AND QUANTITIES.

1 / E-4.0 **OCCUPANCY SENSOR CONTROL DETAIL**
NOT TO SCALE



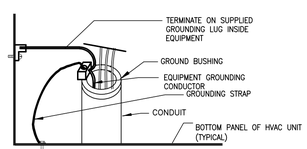

3 / E-4.0 **BRAND WALL LIGHTING DETAIL**
NOT TO SCALE

## GENERAL NOTES

1. PLACE LED FIXTURE AT DESIRED LOCATION AND INSTALL FIXTURE FROM LEFT TO RIGHT WHEN FACING ARCADE AND ATTACH POWER SUPPLY AND MOUNTING BRACKET AS RECOMMENDED BY MANUFACTURER.
2. EC SHALL CONNECT NEW FIXTURES TO THE NEXT AVAILABLE SPARE 120V CIRCUIT AND MAKE ALL ELECTRICAL CONNECTIONS AS REQUIRED FOR A COMPLETE OPERATING SYSTEM.
3. POWER SUPPLY SHALL ALWAYS BE INSTALLED TO THE LEFT SIDE OF FIXTURE WHEN FACING ARCADE.
4. OVERALL FIXTURE RUN TO BE CENTERED ON OVERALL LENGTH OF WALL.
5. CONNECT NEW LED FIXTURES TO EXISTING LIGHTING CIRCUIT(S) AS REQUIRED. ENSURE THAT CIRCUIT BREAKER AND CONDUCTOR SIZES DO NOT EXCEED 1200 WATTS ON A 15A CIRCUIT AND 1600 WATTS ON A 20A CIRCUIT. VERIFY EXISTING CONDITIONS AND REQUIREMENTS IN FIELD. PROVIDE ADDITIONAL CIRCUITS (C.B.,WIRING,CONDUITS) AS REQUIRED.

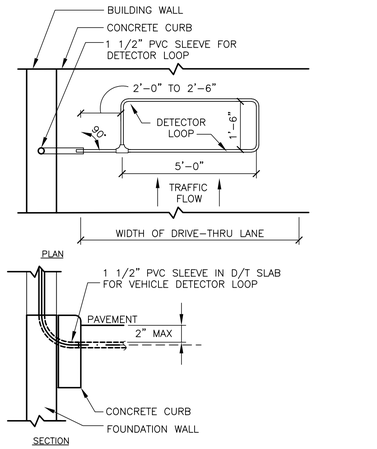
## CONDUIT, WIRE SIZE AND GROUNDING FOR HVAC UNITS

| HACR BRKR SIZE | CONDUIT & WIRE SIZE |
|---|---|
| 40A | 1"C-3#8 |
| 45A | 1"C-3#6 |
| 50A | 1"C-3#6 |
| 60A | 1"C-3#6 |
| 70A | 1-1/4"C-3#4 |
| 80A | 1-1/4"C-3#3 |
| 90A | 1-1/4"C-3#3 |
| 100A | 1-1/4"C-3#2 |
| 125A | 1-1/2"C-3#1 |
| 150A | 1-1/2"C-3#1/0 |
| 175A | 2"C-3#2/0 |
| 200A | 2"C-3#3/0 |
| 225A | 2"C-3#4/0 |
| 250A | 2-1/2"C-3#250 |

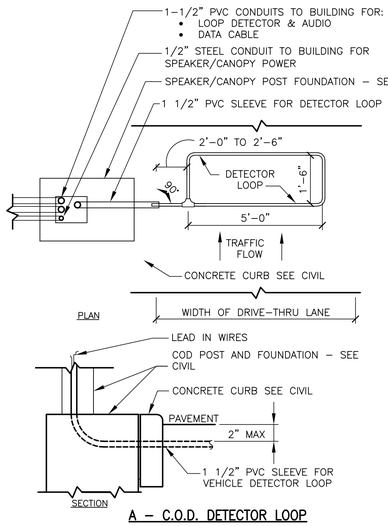



4 / E-4.0 **HVAC GROUNDING DETAIL**
NOT TO SCALE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL COORDINATION OF ALL ELECTRICAL FEEDERS AND CIRCUIT BREAKERS WITH THE MANUFACTURER'S WRITTEN DATA FOR EACH MECHANICAL DEVICE PRIOR TO SUBMITTAL OF ANY ELECTRICAL EQUIPMENT FOR REVIEW. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ANY CHANGES TO ELECTRICAL FEEDERS OR CIRCUIT BREAKERS REQUIRED FOR ANY MECHANICAL DEVICES.




B – DT WINDOW DETECTOR LOOP



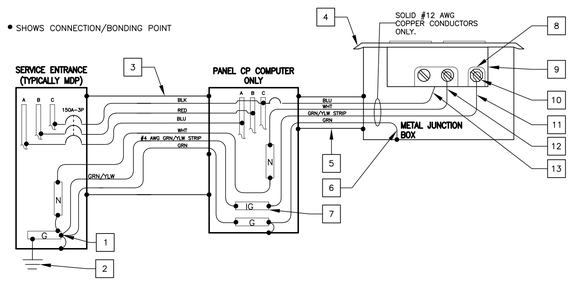

A – C.O.D. DETECTOR LOOP

2 / E-4.0 **DETECTOR LOOP DETAILS**
NOT TO SCALE

## NOTES

1. VERIFY CONDUIT SIZES AND LAYOUT WITH DETECTOR LOOP MANUFACTURER.
2. CENTER VEHICLE DETECTOR LOOP (ITEM # 217.11E1) IN DRIVE THRU LANE. INSTALL PER MFR. RECOMMENDATIONS.
3. SEE CIVIL FOR DIMENSIONS OF DRIVE-THRU LANE CONCRETE PAD FOR DETECTOR LOOP.
4. NO STEEL (REBAR OR ELECTRICAL WIRE) SHALL BE USED WITHIN 2' OF LOOP.
5. DETECTOR LOOP MANUFACTURERS:
   DETECTOR LOOPS MAY BE BY ONE OF THE FOLLOWINGS COMPANIES OR EQUAL.
   3M: 1-800-328-0033
   HME: 1-800-848-4468
6. DETECTOR LOOP MATERIAL:
   PVC TUBING 1/2" I.D. 100 PSI LOOP MADE FROM ONE LENGTH OF THIN FOURTEEN GAUGE STRANDED WIRE. LEAD-IN IS PRE-TWISTED AT FACTORY.
7. DETECTOR LOOP CONSTRUCTION:
   FORMED WITH ONE CONTINUOUS LENGTH OF PVC WITH NO SHARP CORNERS AS DETAILED. WIRE LOOPED, FORMED, & PIGTAILED AS DETAILED.

• SHOWS CONNECTION/BONDING POINT




## NOTES

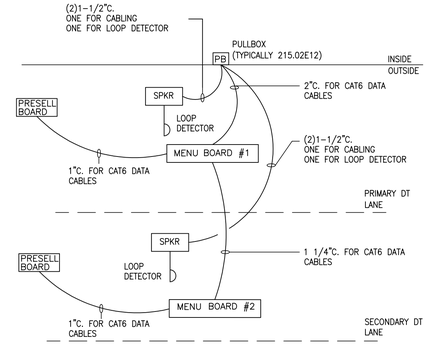
1. ALL P.O.S. EQUIPMENT (COMPUTERS,PRINTERS,MONITORS KVS, MODEM, HUB & COD) SHALL BE POWERED FROM THE COMPUTER PANEL.

   ALL OTHER COMPUTER/DIGITAL EQUIPMENT SHALL BE POWERED FROM PHASE "A" IN THE COMPUTER PANEL.
2. ISOLATED GROUND INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF NEC SECTION 250 .
3. EACH 20 AMP CIRCUIT SHALL HAVE IT'S OWN ISOLATED EQUIPMENT GROUNDING CONDUCTOR.
4. ENTIRE GROUNDING SYSTEM SHALL COMPLY WITH NEC ARTICLE 250 AND MCDONALD'S BUILDING GROUNDING DETAIL.
5. EC SHALL VERIFY CORRECT POLARITY AT RECEPTACLE.
6. EC SHALL VERIFY THAT SUBPANEL CP DOES NOT CONTAIN ANY ILLEGAL NEUTRAL TO GROUND BONDS.
7. PANEL CP SHALL ONLY BE USED TO POWER SENSITIVE ELECTRONIC EQUIPMENT, AS OUTLINED IN NOTE #1. IT SHALL NOT BE USED TO POWER ANY OTHER LOADS.
8. IT IS A SAFETY HAZARD AND AN NEC VIOLATION FOR THE POS SYSTEM TO HAVE ITS OWN INDEPENDENT GROUNDING ROD. IF AN INDEPENDENT GROUND ROD IS FOUND FOR THE POS SYSTEM, IT SHALL BE BONDED TO THE BUILDING GROUNDING SYSTEM.

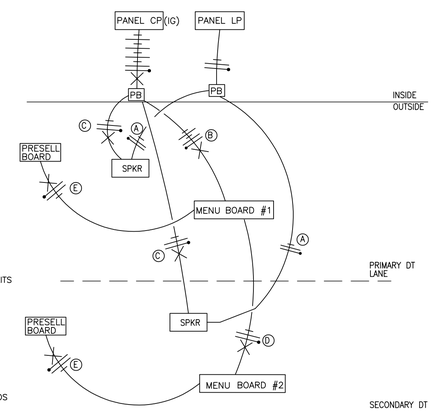
## KEY NOTES

1. THIS IS THE ONLY POINT WHERE THE ISOLATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE CONNECTED TO THE BUILDING'S GROUNDING SYSTEM.
2. SEE BUILDING GROUNDING DETAIL SHEET E4.2.
3. 1 1/2" METAL CONDUIT: 4-#1/0 CU + 1-#6 CU EQUIP GND + 1-#4 CU ISOLATED GND.
4. ALL ISOLATED GROUND/ DEDICATED CIRCUIT RECEPTACLE COVER PLATES SHALL BE ORANGE HUBBELL PJ7CO (SINGLE), PJ8CO (ONE DUPLEX) OR PJ82CO (TWO DUPLEX) MARKED "COMPUTER ONLY".
5. METAL CONDUIT SHALL CONTAIN ONLY P.O.S. CIRCUIT CONDUCTORS (DEDICATED CIRCUIT). ONLY USE RIGID NON-METALLIC CONDUIT BELOW GRADE WHEN REQUIRED BY LOCAL CODE.
6. EQUIPMENT GROUNDING BONDING CONDUCTOR (TYPICAL)
7. ISOLATED GROUND BUS, ELECTRICALLY INSULATED FROM PANEL ENCLOSURE USED TO TERMINATE ONLY ISOLATED EQUIPMENT GROUNDING CONDUCTORS.
8. ALL CONDUCTORS SHALL BE SOLID COPPER AND TERMINATED TO THEIR APPROPRIATE TERMINAL SCREWS BY WRAPPING THE CONDUCTOR COMPLETELY AROUND THE SCREW BARREL AND TIGHTENING THE SCREW PER MANUFACTURER'S TORQUE SPECIFICATIONS.
9. ISOLATED GROUND RECEPTACLE HUBBELL-IG4700,IG4710,IG5262 OR IG5261. SEE ROUGH IN SCHEDULE FOR THE APPROPRIATE RECEPTACLE TO USE.
10. ISOLATED GREEN GROUND SCREW.
11. ISOLATED EQUIPMENT GROUNDING CONDUCTOR (GRN W/YLW STRIP)
12. NEUTRAL CONDUCTOR TERMINATED ON SILVER SCREW.
13. PHASE CONDUCTOR TERMINATED ON BRASS SCREW

5 / E-4.0 **POS & COD ISOLATED GROUND/DEDICATED CIRCUIT**
NOT TO SCALE




DT LOW VOLTAGE CONDUIT DIAGRAM
NOT TO SCALE




DRIVE THRU POWER DIAGRAM
NOT TO SCALE

## NOTE:

* VERIFY EXACT CIRCUITS & QUANTITIES OF CIRCUITS WITH PANEL SCHEDULES AND MANUFACTURERS INSTALLATION INSTRUCTIONS.

* VERIFY LOW VOLTAGE CABLE COUNT WITH MANUFACTURERS INSTALLATION INSTRUCTIONS.

Ⓐ 2#12 & 1#12 GND. TO LP-1 FOR COD CANOPY LIGHTING.

Ⓑ 4#12 & 1#12 GND & 1#12 ISOLATED GND., TO CP FOR ISOLATED GROUND POWER TO MENUBOARDS AND MEDIA PLAYERS.

Ⓒ 2#12 & 1#12 GND & 1#12 ISOLATED GND., TO CP FOR ISOLATED GROUND POWER TO SPEAKER CANOPY/STAND. EACH CANOPY/STAND SHALL BE ON ITS OWN SEPARATE CIRCUIT.

Ⓓ 2#12 & 1#12 GND & 1#12 ISOLATED GND., TO CP FOR ISOLATED GROUND POWER TO MENUBOARDS AND MEDIA PLAYERS.

Ⓔ 2#12 & 1#12 GND & 1#12 ISOLATED GND., TO CP FOR ISOLATED GROUND POWER TO FOR PRESELL BOARDS AND MEDIA PLAYER.

| NO. | DESCRIPTION | DATE |
|---|---|---|
| | | |
| | | |
| | | |

DATE: .....

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| | |
|---|---|
| DRAWN BY | |
| STD ISSUE DATE | 2023 11 |
| REVIEWED BY | GA |
| DATE ISSUED | 9/6/2024 |

TITLE: 2024 STANDARD BUILDING – BB20
4584-WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
BRICK / ALPOLIC PANEL

NSN: 10721
L/C: 032-0312

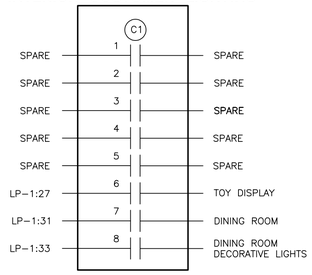
SITE ADDRESS:
102 W CORNELIUS HARNETT BLVD
LILLINGTON, NC

SHEET NO.
032-0312.00.0
E4.0
WIRING DETAILS

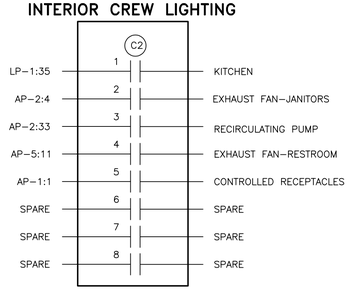
PROJECT No. 60734777 Task: 032-0312

# LIGHTING CONTROL SYSTEM

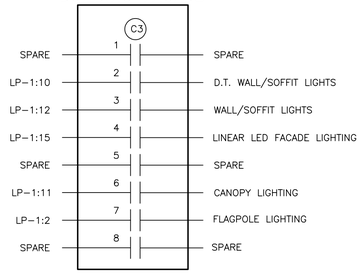
### INTERIOR CUSTOMER LIGHTING



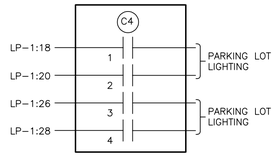

### INTERIOR CREW LIGHTING



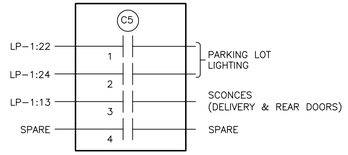

### BUILDING FACADE



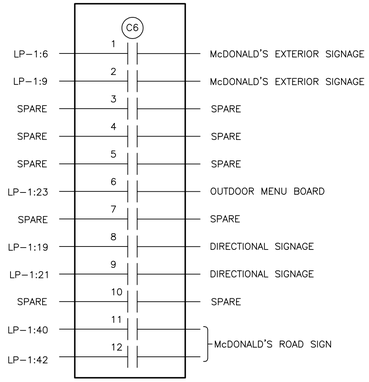

### EXTERIOR LIGHTING




### EXTERIOR LIGHTING




### EXTERIOR SIGNAGE




| INTERIOR LIGHTING CONTROL SCHEDULE | | | | | | | |
|---|---|---|---|---|---|---|---|
| | LOCAL CONTROL | MANUAL ON | PARTIAL ON | MULTI LEVEL | DAYLIGHTING | AUTO OFF | SCHEDULE OFF |
| DINING | MANAGERS OFFICE | | X | | X | | X |
| KITCHEN | MANAGERS OFFICE | | X | | | | X |
| SUPPORT/STOCK | X | | | | | X | |
| CREW | X | X | | X | | X | |
| MANAGER | X | X | | X | | X | |
| BATHROOM | | | | | | X | |
| SMALL STORAGE | X | X | | | | X | |
| ENTRY VESTIBULE | | | | | | | X |

NOTES:
1. LOCAL CONTROL: MANUAL LIGHTING CONTROL THAT PROVIDES ON AND OFF CONTROL IN SPACE. REMOTE LOCATION CONTROL DEVICE MUST BE LABELED TO IDENTIFY CONTROLLED LIGHTING.
2. MANUAL ON: NONE OF THE LIGHTING SHALL BE AUTOMATICALLY TURNED ON.
3. PARTIAL ON: 50% OF THE GENERAL LIGHTING SHALL BE AUTOMATICALLY TURNED ON.
4. MULTI LEVEL: GENERAL LIGHTING SHALL BE FITTED WITH A MANUAL CONTROLLED CONTINUOUS DIMMER.
5. DAYLIGHTING: REQUIRED WHEN PRIMARY AND SECONDARY ZONES CONTAIN 150W OF GENERAL LIGHTING. PHOTOCONTROL SHALL REDUCE LIGHTING IN RESPONSE TO AVAILABLE DAYLIGHT USING CONTINUOUS DIMMING TO 20% AND OFF.
6. AUTO OFF: ALL LIGHTING INCLUDING LIGHTING CONNECTED TO EMERGENCY CIRCUITS SHALL BE AUTOMATICALLY SHUT OFF WITHIN 20 MINUTES OF OCCUPANTS LEAVING THE SPACE.
7. SCHEDULE OFF: ALL LIGHTING, INCLUDING LIGHTING CONNECTED TO EMERGENCY CIRCUITS, SHALL BE AUTOMATICALLY SHUT OFF DURING PERIODS WHEN THE SPACE IS SCHEDULED TO BE UNOCCUPIED.
8. 0.02W PER SQUARE FT OF BUILDING ALLOWED TO BE CONTINUOUSLY LIT.

| EXTERIOR LIGHTING CONTROL SCHEDULE | | | |
|---|---|---|---|
| | TIME CLOCK | PHOTOCELL | OCCUPANCY SENSOR |
| POLE LIGHTING | X | X | X |
| BUILDING MOUNT LIGHTING | X | X | |
| SIGNAGE | X | X | |

NOTES:
1. TIME CLOCK: LIGHTING SHALL BE AUTOMATICALLY SHUT OFF BETWEEN BUSINESS CLOSING (OR MIDNIGHT) AND BUSINESS OPENING (OR 6AM) WHICHEVER PROVIDES THE SHORTEST OFF DURATION.
2. PHOTOCELL: LIGHTING SHALL BE AUTOMATICALLY TURNED OFF WHEN SUFFICIENT DAYLIGHT IS AVAILABLE.
3. OCCUPANCY SENSOR: LIGHTING SHALL AUTOMATICALLY REDUCE THE CONNECTED LIGHTING POWER BY 50% WHEN NO ACTIVITY HAS BEEN DETECTED IN AREA IN 15 MINUTES. NO MORE THAN 1500W OF LIGHTING PER CONTROL ZONE.

# LIGHTING CONTROL NOTES:

## LIGHTING CONTROL NOTES

LC1. CONTACTOR DETAILS ARE DIAGRAMMATIC ONLY AND ARE SHOWN WITH TYPICAL LOADS AND CIRCUIT ASSIGNMENTS. LOADS, CIRCUIT ASSIGNMENTS AND NUMBER OF CONTACTORS MAY VARY BY RESTAURANT LOCATION AND PER BAS SUPPLIERS SYSTEMS. VERIFY EXACT REQUIREMENTS WITH BAS INSTALLATION DETAILS, SITE PLANS, ELECTRICAL PANEL SCHEDULES AND ACM. EC SHALL MAKE ALL MODIFICATIONS AS REQUIRED. FINAL INSTALLATION SHALL BE FULLY NEC AND ENERGY CODE COMPLIANT.

LC2. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL WIRING, CONNECTIONS, TERMINATIONS, ETC. THAT ARE NOT PROVIDED BY THE BAS SUPPLIER FOR A COMPLETE, FULLY OPERATIONAL AND CODE COMPLIANT LIGHTING CONTROL SYSTEM.

LC3. ALL COMPONENTS FOR THIS LIGHTING CONTROL SYSTEM SHALL BE INSTALLED BY THE ELECTRICAL CONTRACTOR. SEE BOXED NOTE BELOW FOR OPTIONS.

LC4. ALL COMPONENTS SHALL BE UL LISTED AND LABELED AND THE SYSTEM SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL ENERGY CODE REQUIREMENTS.

LC5. ALL CONTACTORS SHALL BE LOCATED IN A NEMA 1 ENCLOSURE WITH SCREW TYPE COVER MOUNTED DIRECTLY ABOVE LIGHTING PANEL OR SWITCHGEAR SO AS TO BE ACCESSIBLE.

LC6. ALL CONTACTORS SHALL BE RATED FOR 30 AMP LOADS UNLESS NOTED OTHERWISE AND SHALL BE HID RATED WHERE REQUIRED.

LC7. COIL VOLTAGES FOR ALL CONTACTORS SHALL BE 120 VOLT UNLESS NOTED OTHERWISE.

LC8. CONTACTOR C5 IS INTENDED TO CONTROL PARKING LOT LIGHTS NEAR TRASH CORRAL, DELIVERY DOORS, AND EMPLOYEE PARKING, THUS ALLOWING A DIFFERENT LIGHTING SCHEDULE TO BE USED IN THOSE AREAS.

## LIGHTING CONTROL INSTALLATION OPTIONS

OPTION 1 (STANDARD) CONTACTORS AND CONTACTOR ENCLOSURE FOR THIS LIGHTING CONTROL SYSTEM SHALL BE FURNISHED BY THE BAS SUPPLIER AND INSTALLED BY THE ELECTRICAL CONTRACTOR ON SITE FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.

OPTION 2 (OPTIONAL) LIGHTING CONTROL CAN BE ACCOMPLISHED VIA UTILIZATION OF A SMART TYPE BREAKER PANEL REPLACING STANDARD PANEL LP-1. PANEL SHALL UTILIZE AN INTEGRAL MOTOR OPERATED CIRCUIT BREAKERS OR AN INTEGRAL CIRCUIT BREAKER/CONTACTOR TYPE COMBINATION DEVICE WITH AN INTEGRAL PROGRAMMING CONTROL MODULE AND SHALL BE ORDERED THROUGH OUR ELECTRICAL EQUIPMENT NATIONAL ACCOUNT PROGRAM (SQUARE-D) THROUGH OUR CONSTRUCTION PURCHASING TEAM.

## BUILDING AUTOMATION SYSTEM NOTES

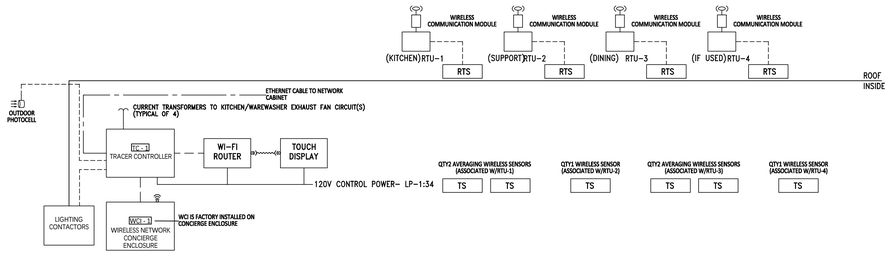
BAS1. THE DIAGRAM SHOWN ABOVE IS SCHEMATIC IN NATURE AND SHOWS THE GENERAL REQUIREMENTS FOR THE INSTALLATION OF THE BUILDING AUTOMATION SYSTEM. EXACT EQUIPMENT REQUIREMENTS AND QUANTITIES WILL VARY PER SITE. G.C., M.C., T.C.C. AND E.C. SHALL COORDINATE ALL EXACT EQUIPMENT AND INSTALLATION REQUIREMENTS WITH SUPPLIER PRIOR TO SUBMITTING BID FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.

BAS2. THE BUILDING AUTOMATION SYSTEM ALSO HAS ADDITIONAL OPTIONS AVAILABLE SUCH AS MONITORING DOOR CONTACTS (RESTROOM & COOLER FREEZER), ENERGY METER, COOLER/FREEZER TEMP. ADDITIONAL OPTIONS MAY BE SELECTED ON CENTRAL PURCHASING PROJECT DETAIL FORM. G.C., M.C., T.C.C. AND E.C. SHALL COORDINATE ALL EXACT INSTALLATION REQUIREMENTS WITH SUPPLIER PRIOR TO SUBMITTING BID FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.

BAS3. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL LINE AND LOW VOLTAGE WIRING AND CONNECTIONS, INCLUDING BUT NOT LIMITED TO CONTROL POWER TO ALL BAS COMPONENTS AND POWER CIRCUITRY WIRING OF ALL LIGHTING CONTACTORS. COORDINATE INSTALLATION WITH SITE SPECIFIC BAS INSTALLATION DETAILS PROVIDED BY SUPPLIER.

# BUILDING AUTOMATION SYSTEM

INSTALLATION & TECHNICAL ASSISTANCE INFORMATION:
TRANE BAS: McDcontrols@Trane.com




**PROVIDE AND INSTALL DATA OUTLET NEXT TO BAS PANEL. REMOTE COMMISSIONING IS NOT POSSIBLE WITHOUT DATA CONNECTION.**

**INSTALLATION NOTES:**
1. PROVIDE, INSTALL AND SECURE ALL NECESSARY CABLE & CONDUIT PER BAS DRAWINGS AND SPECIFICATIONS.
2. MOUNT ALL BAS CONTROL ENCLOSURES.
3. PERFORM ALL LOW VOLTAGE TERMINATIONS.
4. ROUGH-IN, INSTALLATION AND WIRING FOR TEMPERATURE SENSORS AND TOUCHSCREEN PER PLAN LOCATIONS.
5. PROVIDE POWER CIRCUITS INTO CONTROL CANS PER BAS DETAILS.
6. COORDINATE WITH SUPPLIER TO SCHEDULE REMOTE COMMISSIONING.
7. CORRECT ALL PUNCH LIST ITEMS FOUND DURING REMOTE COMMISSIONING.

### CONTROLS SCHEDULE

| MARK | DESCRIPTION | MANUFACTURER MODEL |
|---|---|---|
| TS | WIRELESS SPACE TEMPERATURE SENSOR | *PROVIDED WITH BAS |
| RTS | RETURN TEMPERATURE SENSOR | *PROVIDED WITH BAS |
| HS | OUTDOOR TEMP/HUMIDITY SENSOR | FACTORY FURNISHED AND INSTALLED W/EACH RTU |

NOTES:
1. FOR TS LOCATIONS, REFER TO M1.2
2. RTS TO BE MOUNTED IN RETURN AIR DUCT OF RTU

### WIRE LEGEND

| MARK | WIRE/CABLE TYPE |
|---|---|
| —— - —— | CAT 5E |
| ---------- | 18 AWG CONDUCTORS |

DATE: ..... | REV | DATE | DESCRIPTION


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| DRAWN BY | REVIEWED BY | DATE ISSUED |
|---|---|---|
| DU | GA | 9/6/2024 |
| STD ISSUE DATE 2023 11 | | |

TITLE: 2024 STANDARD BUILDING – BB20
4584-WOOD/WOOD

DESCRIPTION:
WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & CI
WOOD TRUSS ROOF FRAMING
BRICK/ ALPOLIC PANEL

NSN: 10721 | SITE ADDRESS: 102 W CORNELIUS HARNETT BLVD
LIT: 032-0312 | LILLINGTON, NC

SHEET NO. E4.1
LIGHTING CONTROLS

032-0312.00.0

PROJECT No. 60734777 Task: 032-0312

| MLO, AIC: NOTES D6,D7,&D8, Mounting: flush, NEMA 1 | | | | PANEL LP-1 | | | | | 225A, 208Y/120 VAC, 3PH, 4W, CB TYPE: BL or BLH | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WATTS | | | BRKR | TRIP | CCT | CCT | TRIP | BRKR | | WATTS | | |
| A | B | C | REQ | POLES | NO. | NO. | POLES | REQ | DESCRIPTION | A | B | C |
| 0 | | | | 20A-1 | 1 | 2 | 20A-1 | S | Flag Pole | 220 | | |
| | 0 | | | 20A-1 | 3 | 4 | 20A-1 | | Spare | | 0 | |
| | | 0 | | 20A-1 | 5 | 6 | 20A-1 | S | Exterior Signage | | | 294 |
| 0 | | | | 20A-1 | 7 | 8 | 20A-1 | S | Spare | 0 | | |
| | 294 | | S | 20A-1 | 9 | 10 | 20A-1 | S | Exterior Wall/Soffit Lights DT | | 114 | |
| | | 193 | S | 20A-1 | 11 | 12 | 20A-1 | S | Exterior Wall/Soffit Lights | | | 125 |
| 42 | | | S,L | 20A-1 | 13 | 14 | 20A-1 | | DCO In Road Sign Base | 180 | | |
| | 162 | | S | 20A-1 | 15 | 16 | 20A-1 | L | Dr Alarm\CO2\Access Control | | 524 | |
| | | 0 | | 20A-1 | 17 | 18 | 30A-2 | | Lot Lights | | | 480 |
| 96 | | | S | 20A-1 | 19 | 20 | | | | 480 | | |
| | 96 | | S | 20A-1 | 21 | 22 | 30A-2 | | Lot Lights | | 240 | |
| | | 120 | S | 20A-1 | 23 | 24 | | | | | | 240 |
| 0 | | | | 20A-1 | 25 | 26 | 30A-2 | | Lot Lights | 480 | | |
| | 30 | | S | 20A-1 | 27 | 28 | | | | | 480 | |
| | | 0 | S | 20A-1 | 29 | 30 | 30A-2 | | Spare | | | 0 |
| 368 | | | S | 20A-1 | 31 | 32 | | | | 0 | | |
| | 250 | | S | 20A-1 | 33 | 34 | 20A-1 | L | BAS Controller | | 300 | |
| | | 880 | S | 20A-1 | 35 | 36 | 20A-1 | L | Lighting Control Panel | | | 180 |
| 176 | | | S | 20A-1 | 37 | 38 | 20A-1 | S,L | Exit/Egress Lighting | 80 | | |
| | 520 | | S | 20A-1 | 39 | 40 | 60A-2 | S | Mcd'S Road Sign | | 2496 | |
| | | 0 | | 20A-1 | 41 | 42 | | | | | | 2496 |
| | | | | | | | | | Total Connect | 2122 | 5506 | 5008 |
| | | | | | | | | | Connect Amps | | 35 | Amps |
| | | | | | | | | | Demand Amps | | 44 | Amps |

| MLO, AIC: NOTES D6, D7, & D8, Mounting: MDP, NEMA 1 | | | | PANEL AP-1 | | | | | 225A, 208Y/120 VAC, 3PH, 4W, CB TYPE: BL or BLH | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WATTS | | | BRKR | TRIP | CCT | CCT | TRIP | BRKR | | WATTS | | |
| A | B | C | REQ | PLS | NO. | NO. | PLS | REQ | DESCRIPTION | A | B | C |
| 1764 | | | | 20A-1 | 1 | 2 | 20A-2 | G | Coffee brewer (presenter's booth) | 1612 | | |
| | 720 | | G | 20A-1 | 3 | 4 | | | | | 1612 | |
| | | 0 | | 20A-1 | 5 | 6 | 20A-1 | G | ABS (phase c, presenter's booth) | | | 1788 |
| 120 | | | L | 20A-1 | 7 | 8 | 20A-1 | G | Oj dispenser/ coffee cream disp | 840 | | |
| | 240 | | | 20A-1 | 9 | 10 | 20A-1 | G | CO2 Detector | | 240 | |
| | | 960 | G | 20A-1 | 11 | 12 | 20A-1 | G | Automated beverage sys | | | 600 |
| 960 | | | | 15A-1 | 13 | 14 | 20A-2 | G | Coffee Brewer (front counter) | 1612 | | |
| | 1800 | | | 20A-1 | 15 | 16 | | | | | 1612 | |
| | | 120 | | 20A-1 | 17 | 18 | 30A-3 | G | Heat treat combo shake | | | 1561 |
| 2246 | | | G | 30A-2 | 19 | 20 | | | | 1561 | | |
| | 2246 | | | | 21 | 22 | | | | | 1561 | |
| | | 1500 | | 20A-1 | 23 | 24 | 20A-1 | | 3-Vat fryer hood interlock | | | 1176 |
| 1320 | | | G | 20A-1 | 25 | 26 | 20A-2 | H | Ice Machine Remote Cond 1400lb | 104 | | |
| | 1080 | | G | 20A-1 | 27 | 28 | | | | | 104 | |
| | | 2112 | | 20A-1 | 29 | 30 | 20A-1 | G | Reach in Freezer-SW | | | 1320 |
| 1500 | | | L,G | 20A-1 | 31 | 32 | 15A-3 | H | Ice Machine Remote Cond 1000lb | 1333 | | |
| | 60 | | G | 20A-1 | 33 | 34 | | | | | 1333 | |
| | | 1320 | | 20A-1 | 35 | 36 | | | | | | 1333 |
| 132 | | | | 15A-1 | 37 | 38 | 15A-3 | H | Ice Machine Remote Cond 1000lb | 1333 | | |
| | 132 | | | 15A-1 | 39 | 40 | | | | | 1333 | |
| | | 1656 | | 20A-1 | 41 | 42 | | | | | | 1333 |
| | | | | | | | | | Total Connect | 16438 | 14073 | 16779 |
| | | | | | | | | | Connect Amps | | 131 | Amps |
| | | | | | | | | | Demand Amps | | 89 | Amps |

| MLO, AIC: NOTES D6,D7,&D8, Mounting: MDP, NEMA 1 | | | | PANEL AP-2 | | | | | 225A, 208Y/120 VAC, 3PH, 4W, CB TYPE: BL or BLH | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WATTS | | | BRKR | TRIP | CCT | CCT | TRIP | BRKR | | WATTS | | |
| A | B | C | REQ | PLS | NO. | NO. | PLS | REQ | DESCRIPTION | A | B | C |
| 1609 | | | H | 20A-3 | 1 | 2 | 20A-1 | | Spare | 0 | | |
| | 1609 | | I | I | 3 | 4 | 20A-1 | | Janitors EF (EF-5) | | 100 | |
| | | 1609 | I | I | 5 | 6 | 20A-1 | G | Dco-General Purpose | | | 540 |
| 144 | | | G | 20A-1 | 7 | 8 | 20A-1 | G | Refrig-wt-48" | 600 | | |
| | 180 | | G | 20A-1 | 9 | 10 | 30A-2 | H | Trash Compactor | | 2496 | |
| | | 480 | L | 20A-1 | 11 | 12 | | | | | | 2496 |
| 0 | | | Spare | 20A-1 | 13 | 14 | 20A-1 | | Walk in cooler / freezer | 1200 | | |
| | 864 | | G | 20A-1 | 15 | 16 | 20A-1 | | Walk in cooler / freezer | | 1200 | |
| | | 1668 | | 20A-1 | 17 | 18 | 20A-2 | G | Q'ing oven - P& S | | | 1550 |
| 840 | | | | 15A-1 | 19 | 20 | | | | 1550 | | |
| | 120 | | | 20A-1 | 21 | 22 | 20A-1 | G | Specialty Coffee Refrigerator 27" | | 468 | |
| | | 490 | | 20A-1 | 23 | 24 | 20A-1 | G | Automated beverage sys | | | 600 |
| 180 | | | | 20A-1 | 25 | 26 | 20A-1 | G | ABS (presenter's booth) | 1788 | | |
| | 1200 | | G | 20A-1 | 27 | 28 | 20A-2 | G | Q'ing oven - P& S | | 1550 | |
| | | 1032 | | 20A-1 | 29 | 30 | | | | | | 1550 |
| 324 | | | G | 20A-1 | 31 | 32 | 20A-2 | G | Infusion Tea Brewer | 1352 | | |
| | 120 | | | 20A-1 | 33 | 34 | | | | | 1352 | |
| | | 1632 | | 20A-1 | 35 | 36 | 20A-1 | | Spare | | | 0 |
| 3122 | | | | 30A-3 | 37 | 38 | 20A-2 | G | Q'ing oven - P& S | 1602 | | |
| | 3122 | | | | 39 | 40 | | | | | 1602 | |
| | | 3122 | | | 41 | 42 | 20A-1 | G | Dco-General Purpose | | | 540 |
| | | | | | | | | | Total Connect | 14311 | 15983 | 17309 |
| | | | | | | | | | Connect Amps | | 132 | Amps |
| | | | | | | | | | Demand Amps | | 88 | Amps |

| MLO, AIC: NOTES D6,D7,&D8, Mounting: MDP, NEMA 1 | | | | PANEL AP-3 | | | | | 225A, 208Y/120 VAC, 3PH, 4W, CB TYPE: BL or BLH | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WATTS | | | BRKR | TRIP | CCT | CCT | TRIP- | BRKR | | WATTS | | |
| A | B | C | REQ | PLS | NO. | NO. | PLS | REQ | DESCRIPTION | A | B | C |
| 0 | | | Space | | 1 | 2 | | | Space | 0 | | |
| | 0 | | Space | | 3 | 4 | | | Space | | 0 | |
| | | 0 | Space | | 5 | 6 | | | Space | | | 0 |
| 0 | | | Space | | 7 | 8 | | | Space | 0 | | |
| | 0 | | Space | | 9 | 10 | | | Space | | 0 | |
| | | 0 | Space | | 11 | 12 | | | Space | | | 0 |
| 0 | | | Space | | 13 | 14 | | | Space | 0 | | |
| | 0 | | Space | | 15 | 16 | | | Space | | 0 | |
| | | 0 | Space | | 17 | 18 | | | Space | | | 0 |
| 0 | | | Space | | 19 | 20 | | | Space | 0 | | |
| | 0 | | Space | | 21 | 22 | | | Space | | 0 | |
| | | 0 | Space | | 23 | 24 | | | Space | | | 0 |
| 0 | | | Space | | 25 | 26 | | | Space | 0 | | |
| | 0 | | Space | | 27 | 28 | | | Space | | 0 | |
| | | 0 | Space | | 29 | 30 | | | Space | | | 0 |
| 0 | | 0 | Space | | 31 | 32 | | | Space | 0 | | |
| | 0 | | Space | | 33 | 34 | | | Space | | 0 | |
| | | 0 | Space | | 35 | 36 | | | Space | | | 0 |
| 0 | | | Space | | 37 | 38 | | | Space | 0 | | |
| | 0 | | Space | | 39 | 40 | | | Space | | 0 | |
| | | 0 | Space | | 41 | 42 | | | Space | | | 0 |
| | | | | | | | | | Total Connect | 0 | 0 | 0 |
| | | | | | | | | | Connect Amps | | 0 | Amps |
| | | | | | | | | | Demand Amps | | 0 | Amps |

| MLO, AIC: NOTES D6,D7,&D8, Mounting: MDP, NEMA 1 | | | | PANEL AP-4 | | | | | 225A, 208Y/120 VAC, 3PH, 4W, CB TYPE: BL or BLH | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WATTS | | | BRKR | TRIP | CCT | CCT | TRIP | BRKR | | WATTS | | |
| A | B | C | REQ | PLS | NO. | NO. | PLS | REQ | DESCRIPTION | A | B | C |
| 2606 | | | G | 50A-3 | 1 | 2 | 30A-2 | G | Clamshell Grill | | | |
| | 2606 | | I | I | 3 | 4 | I | I | | | | |
| | | 2606 | I | I | 5 | 6 | I | I | | | | 1813 |
| 5200 | | | G | 50A-3 | 7 | 8 | 30A-3 | G | Clamshell Grill | | | |
| | 5200 | | I | I | 9 | 10 | I | I | | | 1813 | |
| | | 5200 | I | I | 11 | 12 | I | I | | | | 1813 |
| 2606 | | | G | 50A-3 | 13 | 14 | 15A-1 | | Clamshell Grill | | | |
| | 2606 | | I | I | 15 | 16 | 15A-1 | | | | | |
| | | 2606 | I | I | 17 | 18 | | | | | | |
| 5200 | | | G | 50A-3 | 19 | 20 | | | | | | |
| | 5200 | | I | I | 21 | 22 | | | | | | |
| | | 5200 | I | I | 23 | 24 | | | | | | |
| 0 | | | Space | | 25 | 26 | | | | | | |
| | 0 | | Space | | 27 | 28 | | | | | | |
| | | 0 | Space | | 29 | 30 | | | | | | |
| 0 | | | Space | | 31 | 32 | | | | | | |
| | 0 | | Space | | 33 | 34 | | | | | | |
| | | 0 | Space | | 35 | 36 | | | | | | |
| 0 | | | Space | | 37 | 38 | | | | | | |
| | 0 | | Space | | 39 | 40 | | | | | | |
| | | 0 | Space | | 41 | 42 | | | | | | |
| | | | | | | | | | Total Connect | 20198 | 20198 | 19238 |
| | | | | | | | | | Connect Amps | | 166 | Amps |
| | | | | | | | | | Demand Amps | | 108 | Amps |

| MLO, AIC: NOTES D6,D7,&D8, Mounting: MDP, NEMA 1 | | | | PANEL AP-5 | | | | | 225A, 208Y/120 VAC, 3PH, 4W, CB TYPE: BL or BLH | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WATTS | | | BRKR | TRIP | CCT | CCT | TRIP | BRKR | | WATTS | | |
| A | B | C | REQ | PLS | NO. | NO. | PLS | REQ | DESCRIPTION | A | B | C |
| 600 | | | G | 20A-1 | 1 | 2 | 20A-1 | | Warewasher Exhaust Fan (EF-6) | 348 | | |
| | 600 | | G | 20A-1 | 3 | 4 | 20A-2 | G | Universal Holding Cabinet P&S | | 1581 | |
| | | 600 | G | 20A-1 | 5 | 6 | I | I | | | | 1581 |
| 600 | | | G | 20A-1 | 7 | 8 | 20A-2 | G | Universal Holding Cabinet P&S | 1581 | | |
| | 600 | | G | 20A-1 | 9 | 10 | I | I | | | 1581 | |
| | | 300 | G | 20A-1 | 11 | 12 | 20A-1 | G | Universal Holding Cabinet Table | | | 240 |
| 540 | | | G | 20A-1 | 13 | 14 | 20A-1 | | DT Power Window | 120 | | |
| | 132 | | G | 20A-1 | 15 | 16 | 20A-1 | | DT Power Window | | 120 | |
| | | 2080 | G | 30A-2 | 17 | 18 | 20A-1 | | DT Power Window | | | 120 |
| 2080 | | | G | I | 19 | 20 | 20A-2 | G | Coffee Brewer (front counter) | 1612 | | |
| | 360 | | G | 20A-1 | 21 | 22 | I | I | | | 1612 | |
| | | 600 | G | 20A-1 | 23 | 24 | 20A-1 | G | Pie Display | | | 564 |
| 828 | | | G | 20A-1 | 25 | 26 | 20A-1 | G | Pie Display | 564 | | |
| | 2621 | | G | 30A-2 | 27 | 28 | 20A-1 | | Spare | | 0 | |
| | | 2621 | I | I | 29 | 30 | 20A-1 | | DCO-Muzak satellite system | | | 120 |
| 3230 | | | G | 30A-3 | 31 | 32 | 20A-1 | | Ctg. Mt window receipts | 720 | | |
| | 3230 | | I | I | 33 | 34 | 20A-2 | G | Humidified Holding Cabinet | | 946 | |
| | | 3230 | I | I | 35 | 36 | I | I | | | | 946 |
| 3230 | | | G | 30A-3 | 37 | 38 | 20A-2 | H | Remote Condensing Unit | 1560 | | |
| | 3230 | | I | I | 39 | 40 | I | I | | | 1560 | |
| | | 3230 | I | I | 41 | 42 | 20A-1 | | Spare | | | 0 |
| | | | | | | | | | Total Connect | 17614 | 18174 | 16233 |
| | | | | | | | | | Connect Amps | | 144 | Amps |
| | | | | | | | | | Demand Amps | | 97 | Amps |

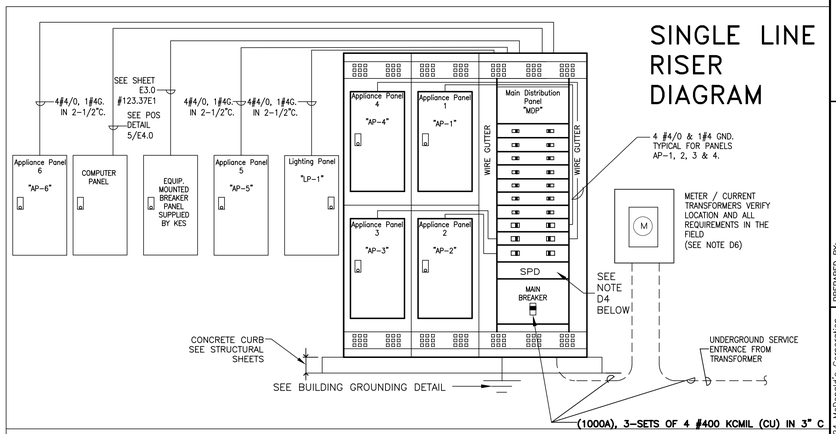
| MLO, AIC: NOTES D6,D7,&D8, Mounting: MDP, NEMA 1 | | | | PANEL AP-6 | | | | | 225A, 208Y/120 VAC, 3PH, 4W, CB TYPE: BL or BLH | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WATTS | | | BRKR | TRIP | CCT | CCT | TRIP | BRKR | | WATTS | | |
| A | B | C | REQ | PLS | NO. | NO. | PLS | REQ | DESCRIPTION | A | B | C |
| 1092 | | | | Hand Dryer | L,G | 20A-1 | 1 | 2 | 60A-2 | | Unit AC-1 | 4212 | | |
| | 1092 | | | Hand Dryer | L,G | 20A-1 | 3 | 4 | I | I | | | 4212 | |
| | | 1092 | | Hand Dryer | L,G | 20A-1 | 5 | 6 | 20A-1 | | Unit AC-3 | | | 960 |
| 1092 | | | | Hand Dryer | L,G | 20A-1 | 7 | 8 | 20A-1 | | Unit AC-4 | 960 | | |
| | 104 | | | Cooler Evap | H | 20A-2 | 9 | 10 | 60A-2 | | Unit AC-2 | | 4212 | |
| | | 104 | I | I | I | I | 11 | 12 | I | I | | | | 4212 |
| 2111 | | | | Freezer Evap | H | 30A-2 | 13 | 14 | 60A-2 | | Unit AC-5 | 4212 | | |
| | 2111 | | I | I | I | I | 15 | 16 | I | I | | | 4212 | |
| | | 0 | | Spare | | 20A-1 | 17 | 18 | 20A-1 | | Spare | | | 0 |
| 0 | | | | Spare | | 20A-1 | 19 | 20 | 20A-1 | | Spare | 0 | | |
| | 0 | | | Spare | | 20A-1 | 21 | 22 | 20A-1 | | Spare | | 0 | |
| | | 0 | | Spare | | 20A-1 | 23 | 24 | 20A-1 | | Spare | | | 0 |
| 0 | | | | Spare | | 20A-1 | 25 | 26 | 20A-1 | | Spare | 0 | | |
| | 0 | | | Spare | | 20A-1 | 27 | 28 | 20A-1 | | Spare | | 0 | |
| | | 0 | | Spare | | 20A-1 | 29 | 30 | 20A-1 | | Spare | | | 0 |
| 0 | | | | Spare | | 20A-1 | 31 | 32 | 20A-1 | | Spare | 0 | | |
| | 0 | | | Spare | | 20A-1 | 33 | 34 | 20A-1 | | Spare | | 0 | |
| | | 0 | | Spare | | 20A-1 | 35 | 36 | 20A-1 | | Spare | | | 0 |
| 0 | | | | Space | | | 37 | 38 | | | Space | 0 | | |
| | 0 | | | Space | | | 39 | 40 | | | Space | | 0 | |
| | | 0 | | Space | | | 41 | 42 | | | Space | | | 0 |
| | | | | | | | | | | Total Connect | | 13679 | 15943 | 6368 |
| | | | | | | | | | | Connect Amps | | | 100 | Amps |
| | | | | | | | | | | Demand Amps | | | 96 | Amps |

| 1000A MCB, NEMA 1 | NOTES D6, D7, & D8, Mounting: Free Standing, | | | PANEL MDP | | | | | 208Y/120 VAC, 3PH, 4W | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WATTS | | | | BRKR | TRIP | CCT | CCT | TRIP | BRKR | | WATTS | |
| A | B | C | DESCRIPTION | REQ | PLS | NO. | NO. | PLS | REQ | DESCRIPTION | A | B | C |
| 2122 | 5506 | 5008 | Lighting Panel 1; LP-1 | | 225A-3 | 1 | 2 | 225A-3 | | Appliance Panel; AP-1 | 16438 | 14073 | 16779 |
| 14311 | 15983 | 17309 | Appliance Panel; AP-2 | | 225A-3 | 3 | 4 | 225A-3 | | Appliance Panel; AP-3 | 0 | 0 | 0 |
| 13450 | 13450 | 13450 | *Roof Top Unit 1 | H | 125A-3 | 5 | 6 | 150A-3 | L | CP Panel | 8982 | 8676 | 9268 |
| 13679 | 15943 | 6368 | Apliance Panel; AP-6 | | 225A-3 | 7 | 8 | 90A-3 | H | *Roof Top Unit 3 | 8646 | 8646 | 8646 |
| 17614 | 18174 | 16233 | Appliance Panel; AP-5 | | 225A-3 | 9 | 10 | 225A-3 | SHT | Appliance Panel; AP-4 | 20198 | 20198 | 19238 |
| 9446 | 9926 | 0 | KES Breaker Panel | | 125A-2 | 11 | 12 | 45A-3 | H | *Roof Top Unit 2 | 3603 | 3603 | 3603 |
| 0 | 0 | 0 | SPACE | | 3P | 13 | 14 | 3P | | SPACE | | | |
| 2966 | 2966 | 2966 | Remote Cond Unit | H | 40A-3 | 15 | 16 | | | SPD | | | |
| 0 | 0 | 0 | SPACE | | 3P | 17 | 18 | | | SPD | | | |
| 0 | 0 | 0 | SPACE | | 3P | 19 | 20 | | | SPD | | | |
| | | | | | | | | | | Total Connect | 131454 | 137144 | 118868 |
| | | | | | | | | | | Connect Amps | | 1076 | Amps |

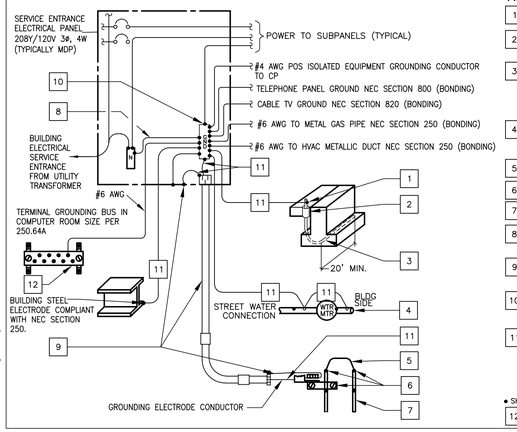
* SEE ELECT SHTS FOR CONDUIT AND WIRE SIZE

| 150 MLO AIC: SEE NOTES D6, D7, & D8, Mounting: Flush | | | | COMPUTER PANEL | | | | | 150A, 208Y/120 VAC, 3PH, 4W, CB TYPE: BL or BLH | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WATTS | | | BRKR | TRIP | CCT | CCT | TRIP- | BRKR | | WATTS | | |
| A | B | C | REQ | PLS | NO. | NO. | PLS | REQ | DESCRIPTION | A | B | C |
| 1488 | | | L | 20A-1 | 1 | 2 | 20A-1 | L | Spare | 0 | | |
| | 1764 | | G, L | 20A-1 | 3 | 4 | 20A-1 | L | Rec | | 84 | |
| | | 100 | L | 20A-1 | 5 | 6 | 20A-1 | L | Digital Merch/Media Player | | | 432 |
| 714 | | | L | 20A-1 | 7 | 8 | 20A-1 | G,L | Kvs Mon Kit/Labeling System | 600 | | |
| | 720 | | G,L | 20A-1 | 9 | 10 | 20A-1 | | Zoom Timer | | 720 | |
| | | 600 | L | 20A-1 | 11 | 12 | 30A-1 | L | Tech Rack Ups | | | 1680 |
| 0 | | | L | 20A-1 | 13 | 14 | 20A-1 | L | COD Optical Isolator | 120 | | |
| | 1200 | | L | 20A-1 | 15 | 16 | 20A-1 | L | Speaker Canopy #1 | | 120 | |
| | | 1440 | L | 20A-1 | 17 | 18 | 20A-1 | L | Speaker Canopy #2 | | | 120 |
| 1080 | | | L | 20A-1 | 19 | 20 | 20A-1 | L | Office desk Unit | 1200 | | |
| | 0 | | L | 20A-1 | 21 | 22 | 20A-1 | L | Office desk Unit | | 1200 | |
| | | 900 | G,L | 20A-1 | 23 | 24 | 20A-1 | L | Order Cash Recycler | | | 528 |
| 1860 | | | L | 20A-1 | 25 | 26 | 20A-1 | G,L | KVS Mon Freq | 360 | | |
| | 528 | | L | 20A-1 | 27 | 28 | 20A-1 | G,L | Time Clock | | 60 | |
| | | 1860 | L | 20A-1 | 29 | 30 | 20A-1 | L | Kiosk Cash Handler | | | 528 |
| 480 | | | L | 20A-1 | 31 | 32 | 20A-1 | L | Kiosks | 1080 | | |
| | 1200 | | L | 20A-1 | 33 | 34 | 20A-1 | L | Kiosks | | 1080 | |
| | | 0 | | | 35 | 36 | 20A-1 | L | Kiosks | | | 1080 |
| 0 | | | | | 37 | 38 | | | Space | 0 | | |
| | 0 | | | | 39 | 40 | | | Space | | 0 | |
| | | 0 | | | 41 | 42 | | | Space | | | 0 |
| | | | | | | | | | Total Connect | 8982 | 8676 | 9268 |
| | | | | | | | | | Connect Amps | | 75 | Amps |
| | | | | | | | | | Demand Amps | | 93 | Amps |

# SINGLE LINE RISER DIAGRAM




## BUILDING ELECTRICAL GROUNDING DETAIL




## KEY NOTES

1. PROVIDE ENOUGH LENGTH TO TERMINATE DIRECTLY TO GROUND BUS OR USE BOLTED-TYPE CONNECTION DEVICE OR EXOTHERMIC WELD.
2. NON-METALLIC PROTECTIVE SLEEVE. LOCATE SLEEVE DIRECTLY UNDER THE ELECTRICAL SERVICE ENTRANCE PANEL. EC TO PROVIDE PLIABLE SEALANT BETWEEN COPPER WIRE AND SLEEVE.
3. FOR NEW CONSTRUCTION WHEN A SPREAD FOOTING OR DOWN TURNED SLAB IS USED, EC SHALL INSTALL A CONCRETE ENCASED ELECTRODE, COMPLIANT WITH NEC SECTION 250, CONSISTING OF AT LEAST 20 FEET OF BARE #4 AWG COPPER ENCASED IN 2 INCHES OF CONCRETE NEAR THE BOTTOM OF THE FOOTING OR FOUNDATION (BELOW GRADE) THAT IS IN DIRECT CONTACT WITH EARTH.
4. METAL UNDERGROUND WATER PIPE ELECTRODE COMPLIANT WITH NEC SECTION 250. THE GROUNDING CONNECTION TO THE INTERIOR METAL WATER PIPE SHALL BE MADE WITHIN THE FIRST FIVE FEET OF THE WATER PIPE ENTRANCE TO THE BUILDING.
5. IF MULTIPLE GROUNDING RODS ARE BEING USED OR NEED TO BE USED, THEY SHALL ALL BE BONDED TOGETHER PER NEC SECTION 250.
6. CLAMPS SUITABLE FOR DIRECT BURIAL OR EXOTHERMIC WELD.
7. 8'-0" X 5/8" CU ROD GROUNDING ELECTRODE COMPLIANT WITH NEC SECTION 250.
8. CU BONDING JUMPER SIZED PER NEC SECTION 250 OR FACTORY PROVIDED NEUTRAL TO GROUND BAR LINK. (THIS IS THE ONLY PLACE IN THE BUILDING WHERE N-G SHALL BE BONDED TOGETHER)
9. ALL METAL RACEWAYS CONTAINING GROUNDING ELECTRODE CONDUCTORS SHALL BE BONDED AT BOTH ENDS AS REQUIRED BY NEC SECTION 250. PROVIDE GROUNDING TYPE BUSHINGS & FITTINGS.
10. MCDONALD'S GROUNDING STANDARDS PURPOSELY EXCEED THOSE GIVEN BY THE NEC. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A BUILDING GROUNDING SYSTEM MEETING NEC AND MCDONALD'S STANDARDS AS SHOWN ON THIS DRAWING.
11. CU GROUNDING ELECTRODE CONDUCTORS AND BONDING JUMPERS SHALL BE SIZED BASED UPON ELECTRICAL SERVICE SIZE PER NEC SECTION 250

| 800A 3/0 CU | 1000A 3/0 CU | 1200A 4/0 CU |
|---|---|---|

● SHOWS CONNECTION/BONDING POINT

12. TERMINAL GROUNDING BUS AT 90°AFF. HARGER #GBI14212D.

# DISTRIBUTION EQUIPMENT NOTES:

D1. ALL ELECTRICAL MATERIAL USED ON THIS PROJECT SHALL BE "UL" LISTED AND LABELED.

D2. THE EC/GC/AREA CONSTRUCTION MANAGER WHEN ORDERING PANELBOARDS, SHALL DETERMINE THE NUMBER OF SERVICE ENTRANCE CONDUCTORS, SIZE AND MATERIAL TYPE, AND SHALL PROVIDE THIS INFORMATION TO THE PANELBOARD SUPPLIER SO THAT THE APPROPRIATE LUGS CAN BE PROVIDED FROM THE FACTORY.

D3. ALUMINUM SERVICE ENTRANCE CONDUCTORS SHALL ONLY BE USED WHEN THEY ARE TERMINATED DIRECTLY TO THE LINE LUGS ON A C/T AND METERING CABINET, THE LINE LUGS OF A FUSIBLE DISCONNECT SWITCH OR TO THE LINE LUGS OF A MAIN LUG ONLY (6 HANDLE RULE) SERVICE ENTRANCE PANEL. ALUMINUM SERVICE ENTRANCE CONDUCTORS SHALL NOT BE TERMINATED TO THE LINE LUGS OF ANY MAIN BREAKER SINCE DOING SO WILL VIOLATE IT'S 100% UL RATING. IF ALUMINUM CONDUCTORS ARE USED AS PREVIOUSLY INDICATED THEY SHALL BE TERMINATED AS FOLLOWS, AND THE WIRE SIZE INCREASED DUE TO LOWER AMPACITY OF ALUMINUM. EXPOSED ALUMINUM CONDUCTOR STRANDS SHALL BE COATED WITH AN ANTI-OXIDANT IMMEDIATELY AFTER INSULATION IS STRIPPED AWAY. A COMPRESSION LUG SHALL BE PROPERLY INSTALLED ONTO THE EXPOSED ALUMINUM CONDUCTOR STRANDS, AND THAT COMPRESSION LUG SHALL THEN BE BOLTED TO THE TRANSFORMER TAPS AND SWITCHBOARD BUSS USING PROPERLY SIZED BOLTS, NUTS AND WASHERS. MERELY INSERTING ALUMINUM STRANDS UNDER A SCREW LUG SHALL NOT BE ACCEPTABLE.

D4. THE SURGE PROTECTIVE DEVICE (SPD) UNIT SHALL BE AN INTEGRAL UNIT PROVIDED AND INSTALLED BY THE SWITCHBOARD MANUFACTURER. ORDER APPROVED UNITS AS SHOWN IN D5.

D5. APPROVED SWITCHBOARDS, PANEL, & SPD SUPPLIER (IN ADDITION TO ORDERING SWITCHBOARD & PANELS ALSO ORDER SPD) SUPPLIERS:

SQUARE D VIA GRAYBAR
900 REGENCY DRIVE
GLENDALE HEIGHTS, IL 60139
TEL: (800)784-6059 OR (630) 671.6304

SPD INTEGRAL: I-LINE SERIES,
(208Y/120V, 3Ø)

D6. MAIN INCOMING METER / CURRENT TRANSFORMER CABINET, MAIN DISTRIBUTION PANEL MDP, SERVICE CABINET AND SWITCH SHALL BE BRACED FOR THE HIGHEST AVAILABLE FAULT CURRENT BUT NOT LESS THAN NEMA SYMMETRICAL RMS OF 65,000 AMPERES. CONTACT UTILITY/PM/GC/EC AS REQUIRED.

D7. BRANCH BREAKERS IN ALL LP, AP AND (CP IF USED) PANELS SHALL HAVE A NEMA SYMMETRICAL RMS RATING OF 10,000 AMPS. ALL CIRCUIT BREAKERS IN AP, LP AND CP PANELS SHALL BE SERIES RATED WITH THE CIRCUIT BREAKERS IN PANEL MDP SO THAT ALL CIRCUIT BREAKERS IN ALL BRANCH PANELBOARDS ARE PROTECTED AGAINST THE MAXIMUM FAULT CURRENT AVAILABLE AT THE MAIN SERVICE DISCONNECT. NO DESIGN CHANGES SHALL BE MADE TO THE DISTRIBUTION SYSTEM WITHOUT THE WRITTEN APPROVAL OF THE PROFESSIONAL ELECTRICAL ENGINEER OF RECORD. FOR A SERIES RATED SYSTEM USING PANEL BOARDS MANUFACTURED BY SQUARE-D USE A FULLY RATED MAIN BREAKER (SM-RGC) AS WELL AS OTHER FULLY RATED BREAKERS IN THE MDP (QG, FH, RGC) AND SERIES RATED BREAKERS (QO (B), QO (B) VH) IN THE SUB-BREAKERS.

D8. PANELBOARD SUPPLIER SHALL MARK CLEARLY & LEGIBLY ON THE DOORS OF ALL PANELS. DOORS OF ALL PANELS "CAUTION – SERIES RATED SYSTEM _____A AVAILABLE. IDENTIFIED REPLACEMENT COMPONENTS REQUIRED."

D9. ALL BREAKERS SHALL BE THE BOLT-ON TYPE. ALL CIRCUIT BREAKERS SHALL BE CAPABLE OF BEING LOCKED OUT TO COMPLY WITH OSHA REGULATION 1910.147 LOCKOUT/TAGOUT PROCEDURES.

D10. BRANCH BREAKERS OF 2P AND 3P CONFIGURATION SHALL HAVE A COMMON TRIP.

D11. ALL CIRCUIT BREAKERS USED TO SWITCH LIGHT FIXTURES SHALL BE APPROVED FOR THE PURPOSE AND MARKED "SWD".

D12. ALL HVAC CIRCUIT BREAKERS SHALL BE HACR TYPE. SEE TABLE ON SHEET E4.0 FOR CONDUIT AND WIRE SIZE REQUIREMENTS.

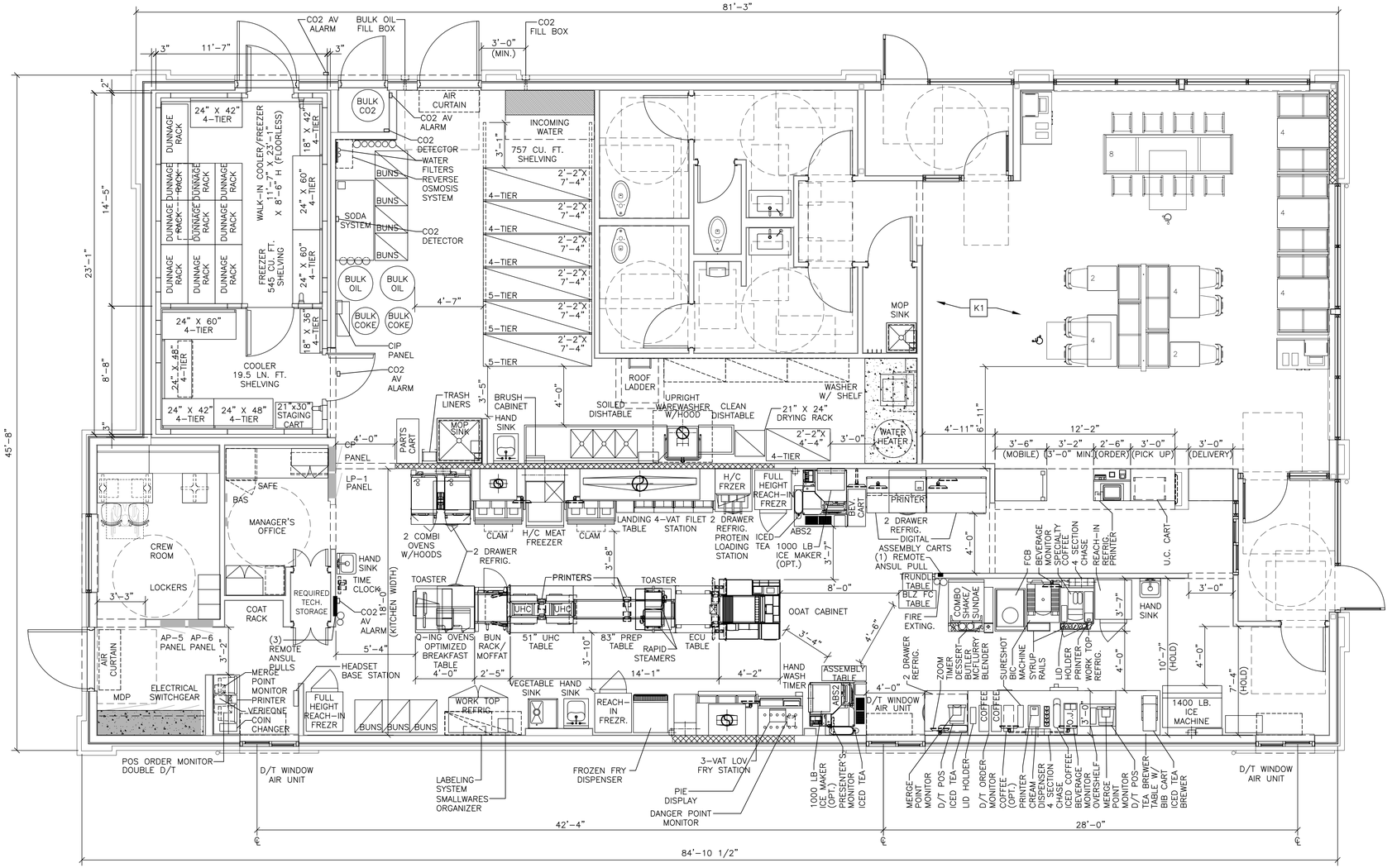
D13. PANELBOARD SUPPLIER SHALL PROVIDE ENGRAVED PLASTIC LAMINATED LABELS TO IDENTIFY ALL PANELS. LABEL FOR COMPUTER PANEL SHALL READ "COMPUTER ONLY PANEL".

D14. ALL PANELS SHALL BE PROVIDED WITH A KEY LOCK AND LATCH. EACH PANEL SHALL HAVE TWO KEYS WITH ALL PANELS KEYED ALIKE.

D15. PANELBOARD MANUFACTURER SHALL PROVIDE ARC-FLASH WARNING LABELS FOR MDP AND ALL BRANCH PANELBOARDS IN ACCORDANCE WITH NEC110.

D16. ALL RECEPTACLES IN THE KITCHEN AREA MUST HAVE GROUND FAULT CIRCUIT-INTERRUPTER PROTECTION PER NEC 210.8 (B) (2).

D17. ON PROJECTS RATED 1200 AMPS OR MORE, AND FOLLOWING NEC 2017 OR NEWER, ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR DATA COLLECTION INCLUDING BUT NOT LIMITED TO UTILITY TRANSFORMER DATA, CABLE LENGTHS, ETC AND COORDINATING WITH THE SWITCHBOARD SUPPLIER OR ELECTRICAL ENGINEER SO THAT AN ARC FLASH STUDY CAN BE PREFORMED. SUPPLIER SHALL SHARE THE RESULTS OF THE STUDY WITH THE ENGINEER OF R




1 / K1.0 KITCHEN COVER SHEET

1/4" = 1'-0"

## GENERAL NOTES:

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- THE REQUIRED DESIGN AND CALCULATIONS ARE COMPLETED IN THE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS WITHIN THE SET.

## KEYED NOTES

CUSTOMER KIOSK & DECOR LAYOUT FOR REFERENCE ONLY. VERIFY KIOSK PLACEMENT PER USRD APPROVED KIOSK REVIEW

PROJECT No. 60734777 Task: 032-0312

DATE: | REV | DATE | DESCRIPTION

PREPARED BY:
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PREPARED FOR:
McDonald's USA, LLC

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| | |
|---|---|
| DRAWN BY | RH |
| STD ISSUE DATE | 2023 11 |
| REVIEWED BY | QA |
| DATE ISSUED | 9/6/2024 |
| SITE ADDRESS | 102 W CORNELIUS HARNETT BLVD LILLINGTON, NC |

TITLE: 2024 STANDARD BUILDING – BB20 4584-WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & CI
WOOD TRUSS ROOF FRAMING
BRICK / ALPOLIC PANEL

NSN: 10721
L/C: 032-0312

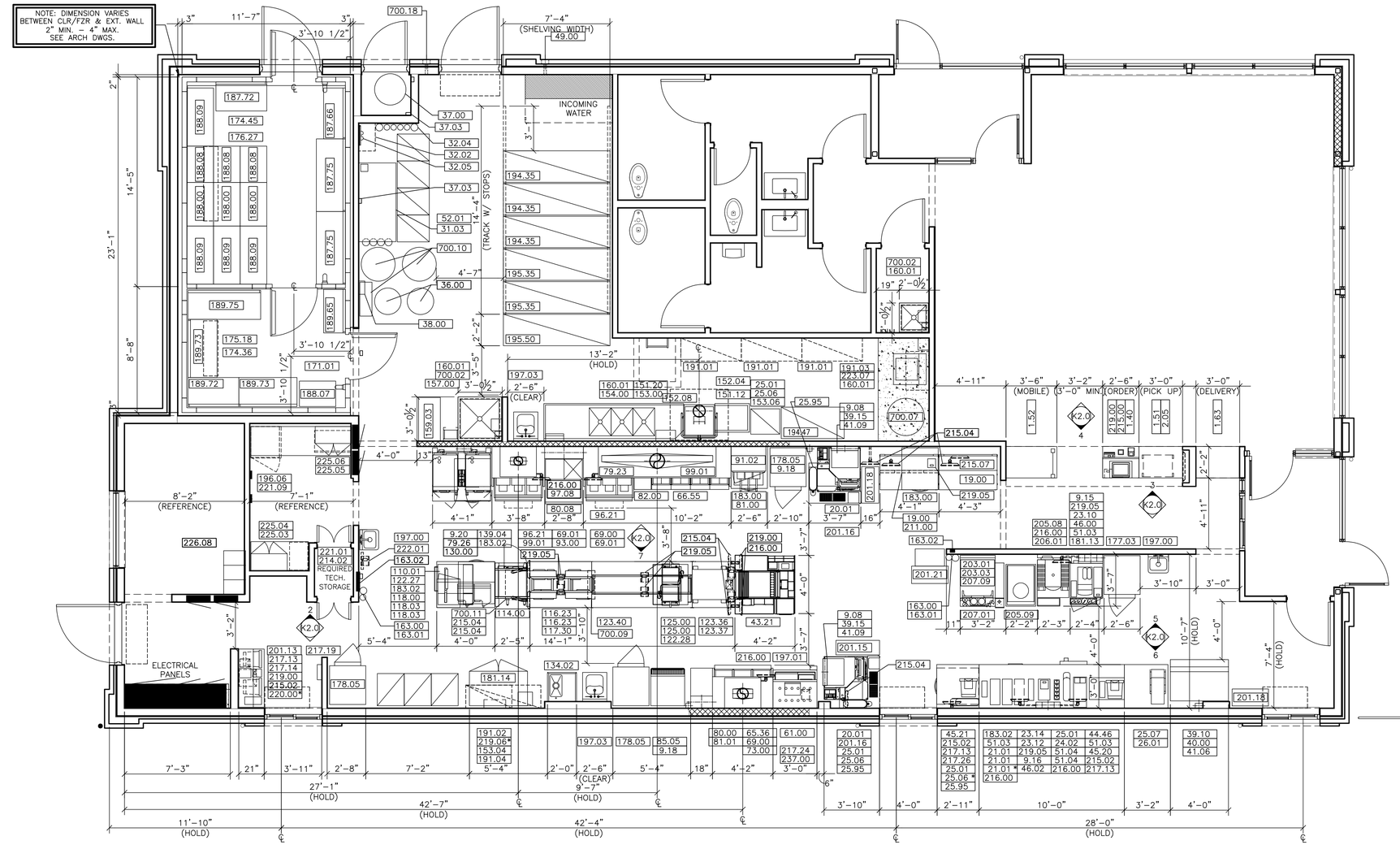
SHEET NO. 032-0312.00.0
K1.0
KITCHEN COVER SHT

NOTE: DIMENSION VARIES BETWEEN CLR/FZR & EXT. WALL 2" MIN. – 4" MAX. SEE ARCH DWGS.

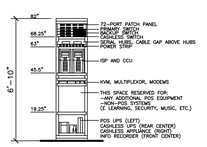
## DRAWING NOTES

1. ALL DIMENSIONS SHOWN ARE TAKEN TO FACE OF WALL FINISH
2. * INDICATES OPTIONAL EQUIPMENT
3. KES TO VERIFY ALL BLOCKING FOR WALL MOUNTED EQUIPMENT AS REQUIRED BY GENERAL NOTE 9 ON A1.0 PRIOR TO INSTALLATION

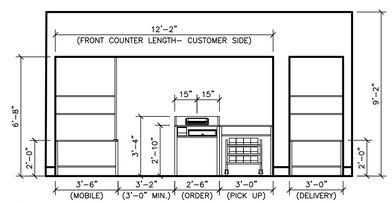
SEE SHEET K2.1 FOR EQUIPMENT SCHEDULE



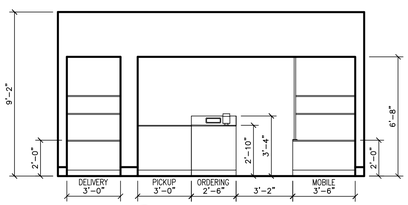

1 K2.0 KITCHEN EQUIPMENT PLAN
1/4" = 1'-0"



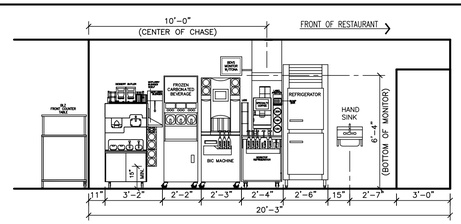

2 K2.0 COMPUTER CLOSET RACK
1/4" = 1'-0"



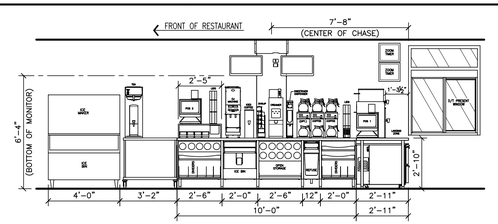

3 K2.0 FRONT COUNTER
1/4" = 1'-0"




4 K2.0 FRONT COUNTER ELEVATION
1/4" = 1'-0"



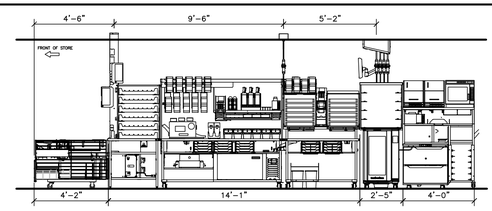

5 K2.0 BEVERAGE CELL (INTERIOR WALL)
1/4" = 1'-0"




6 K2.0 BEVERAGE CELL (EXTERIOR WALL)
1/4" = 1'-0"

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7 K2.0 COMPACT OPTIMIZED PREP LINE
1/4" = 1'-0"

| | | | |
|---|---|---|---|
| REV | DATE | DESCRIPTION | |
| DATE: | | | |

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PREPARED FOR:
McDonald's USA, LLC

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| | |
|---|---|
| DRAWN BY | RH |
| STD ISSUE DATE | 2023 11 |
| REVIEWED BY | GA |
| DATE ISSUED | 9/6/2024 |

TITLE: 2024 STANDARD BUILDING – BB20
4584–WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & CI
WOOD TRUSS ROOF FRAMING
BRICK/ ALPOLIC PANEL

NSN: 10721
SITE ADDRESS: 102 W CORNELIUS HARNETT BLVD
L/C: 032–0312
LILLINGTON, NC

SHEET NO.
032–0312.00.0
K2.0
KITCHEN PLAN

PROJECT No. 60734777 Task: 032–0312

x = Optional Equipment
GC = General Contractor
R = Relocated Equipment
VIF = Verify in Field

# EQUIPMENT SCHEDULE

| ITEM | O | QTY | DESCRIPTION | MANUFACTURER | MODEL # | UL | NSF | FURNISHED | GENERAL REMARKS | SPECIAL REQUIREMENTS |
|---|---|---|---|---|---|---|---|---|---|---|
| 1.40 | | 1 | SERVICE POD – 30" | DECOR | SEE PLAN | – | 2 | GC | – | |
| 1.51 | | 1 | PICKUP POD – 36" | DECOR | SEE PLAN | – | 2 | GC | – | |
| 1.52 | | 1 | PICKUP POD – 42" | DECOR | SEE PLAN | – | 2 | GC | – | |
| 1.63 | | 1 | McDELIVERY PICKUP COUNTER | DECOR | SEE PLAN | – | 2 | GC | – | |
| 2.05 | | 1 | UNDER COUNTER CART – 24"W x 18"D FRONT COUNTER | INTERMETRO | UC18–DMS | – | 2 | KES | – | |
| 9.08 | | 2 | UTILITY CHASE – ICE MAKER ON ABS VERSION | KES | 5"x8"x23" | – | 2 | KES | CONCEALS WATER AND CONDENSING UNIT LINES | |
| 9.15 | | 1 | UTILITY CHASE – FFDT INTERIOR WALL | KES | 20"x5"x76" | – | 2 | KES | 4 SECTION CHASE FOR BUYOUT RECEPTACLES, POS, CO2 AND WATER | |
| 9.16 | | 1 | UTILITY CHASE – FFDT EXTERIOR WALL | KES | 20"x5"x76" | – | 2 | KES | 4 SECTION CHASE FOR BUYOUT RECEPTACLES, POS AND WATER | |
| 9.18 | | 2 | UTILITY CHASE – WALL VERSION | KES | 4"x4"x82" | – | 2 | KES | CHASE FOR BULK OIL LINES, MOUNT AT 2'–0" | |
| 9.20 | | 1 | UTILITY CHASE – COMBI CELL | KES | 4"x8"x84" | – | 2 | KES | CHASE FOR BUYOUT RECEPTACLES AND WATER | |
| 19.00 | | 2 | DIGITAL ASSEMBLY CART – 48" | INTERMETRO | MCDDAC–48 | – | 2 | KES | – | |
| 20.01 | | 2 | AUTOMATED BEVERAGE SYSTEM 2.0 | IMI CORNELIUS | 621058590LON | – | – | KES | INSTALLATION KIT INCLUDES STAINLESS STEEL CHASE & DATA LINE | |
| 21.01 | | 3 | COFFEE BREWER (THERMAL POTS) | BUNN–O– MATIC | AXIOM–DV–3 | E32066 | 4 | KES | W/ELECTRONIC CONTROLLER FOR CONVERSION TO LOW OR HIGH VOLTAGE | |
| 23.10 | | 1 | ESPRESSO BREWER | FRANKE | FM850 | – | 4 | KES | – | |
| 23.12 | | 1 | COFFEE CREAM DISPENSER | SURESHOT | AC110–PC–51 | E217698 | 20 | KES | – | |
| 23.14 | | 1 | SUGAR/SWEETENER DISPENSER | SURESHOT | AC2–GP–1–G38 | E217698 | 18 | KES | – | |
| 24.02 | | 1 | JUICE DISPENSER | BUNN–O– MATIC | JDF–2S | – | 18 | KES | – | |
| 25.01 | | 4 | SLIMLINE ICED BEVERAGE DISPENSER | BUNN–O– MATIC | TDO–N | E32066 | 4 | KES | KES TO VERIFY EXACT QUANTITY PER MARKET | |
| 25.06 | | 3 | SLIMLINE ICED BEVERAGE DISPENSER – SHORT | BUNN–O– MATIC | TDO–N LP | E32066 | 4 | KES | KES TO VERIFY EXACT QUANTITY PER MARKET | |
| 25.07 | | 1 | INFUSION TEA BREWER – MIS | BUNN–O– MATIC | ITCB–DV | E32066 | 4 | KES | PROVIDED WITH BREWER, INSTALLATION KIT AND TDO–N BOOSTER | |
| 25.95 | | 3 | SLIMLINE ICED BEVERAGE DISPENSER – 2 TIER STAND | KES | – | – | 2 | KES | – | |
| 26.01 | | 1 | TEA BREWER TABLE – 36"X36" | ISS SHELVING | WST1758C | – | 2 | KES | – | |
| 31.03 | | 1 | SODA SYSTEM PACKAGE B.I.B.(RECIRCULATING– 3 TOWERS) – REMOTE | MULTIPLEX | 50MR04 | SA4632 | 18 | KES | – | |
| 32.02 | | 1 | REVERSE OSMOSIS WATER FILTRATION SYSTEM – TANKLESS | EVERPURE | MRS–600HE | – | – | KES | FOR COFFEE MAKER, ESPRESSO MACHINE, AND RAPID BUN STEAMER | |
| 32.04 | | 1 | WATER FILTRATION SYSTEM | EVERPURE | EV9337–26 | – | – | KES | – | |
| 32.05 | | 1 | WATER FILTRATION SYSTEM | EVERPURE | EV9272–24 | – | – | KES | FOR COMBI OVENS AND STAGING CABINET | |
| 36.00 | | 2 | BULK COKE | CHART INDUSTRIES | 10667511 | – | 18 | MANU–FACTURER | SYRUP LINES BY CHART INDUSTRIES | |
| 37.00 | | 1 | BULK CO2 – 750 LB. | CHART INDUSTRIES | CARBO–MAX 750 | – | – | MANU–FACTURER | – | |
| 37.03 | | 2 | CO2 SAFETY SYSTEM | SEE RMKS | – | – | – | KES | SEE MECHANICAL DRAWINGS | INCLUDES DETECTOR AND (4) AV ALARMS |
| 38.00 | | 1 | CLEAN IN PLACE PANEL | CHART INDUSTRIES | 10667431 | – | 18 | MANU–FACTURER | MOUNT 6"W x 7"H. BOX @ 6'–0" AFF TO BOX CENTER LINE | |
| 39.10 | | 1 | ICE MACHINE – 1400 LB. | MANITOWOC | IYT1500N3/ D970 | SA4027 | 12 | KES | USE HEADMASTER KIT K00221 | |
| 39.15 | | 2 | ICE MACHINE – 1000 LB. | MANITOWOC | IBT1020C–161 | SA4027 | 12 | KES | CONDENSER: CVDT1200 | |
| 40.00 | | 1 | ICE MACHINE CHASE | KES | 4"x6"x48" | – | 2 | KES | CONCEALS WATER AND CONDENSING UNIT LINES | |
| 41.06 | | 1 | ICE MACHINE REMOTE CONDENSER – 1400 LB. | MANITOWOC | JCT–1500 | SA4027 | 12 | KES | – | |
| 41.09 | | 2 | ICE MACHINE REMOTE CONDENSER – 1000 LB. | MANITOWOC | CVDT1200–263A | SA4027 | 12 | KES | – | |
| 43.21 | | 1 | OPTIMIZED ORDER ASSEMBLY TABLE | KES | 90001 | E152097 | 2 | KES | – | |
| 44.46 | | 1 | SMALL RISER SHELF – 18" TO 30" | FRANKE | 18006010 | – | 2 | KES | – | |
| 45.20 | | 1 | MODULAR BEVERAGE CABINET – 10'–0" | KES | – | – | 2 | KES | – | |
| 45.21 | | 1 | BEVERAGE CABINET – DRIVE–THRU TABLE 35" | KES | – | – | 2 | KES | – | |
| 46.00 | | 1 | CUP DISPENSER VERTICAL 3 CUP | KES | – | – | 2 | KES | – | |
| 46.02 | | 1 | SYRUP BOTTLE RACK – (5) SYRUP PUMPS | PRONTO | – | – | 2 | KES | – | |
| 49.00 | | 1 | CO2 FILL BOX – 6 1/2"W x 18"H | CHART INDUSTRIES | 8512629 | – | – | MANU–FACTURER | SEE EXTERIOR ELEVATIONS FOR MOUNTING HEIGHT. INSTALLED BY GC | |
| 51.03 | | 3 | CUP LID HOLDER 3 HIGH S/S | KES | – | – | 2 | KES | – | |
| 51.04 | | 2 | CUP LID HOLDER SINGLE STACK 8" HIGH | KES | – | – | 2 | KES | – | |
| 52.01 | | 1 | REMOTE CONDENSING UNIT – 50MR04 | MULTIPLEX | TS–0895 | SA2298 | – | KES | ORDER PRE–CHARGE LINE #204017 – VIF LENGTH FROM UNIT TO SODA SYST. | |
| 61.00 | | 1 | FRY BAGGING STATION 36" | KES | FB25A | E99018 | 2 | KES | – | |
| 65.36 | | 1 | 3–VAT LOV FRYER – GAS – F/F/F | HENNY PENNY | LVG–203 | E30993 | 4 | KES | – | IDLE ENERGY RATE=5790 BTU/H, ENERGY EFFICIENCY=54% |
| 66.55 | | 1 | 4–VAT LOV FRYER – GAS – S/S/S/S | HENNY PENNY | LVG–204 | E30993 | 4 | KES | – | IDLE ENERGY RATE=5790 BTU/H, ENERGY EFFICIENCY=54% |
| 69.00 | | 2 | CAPTURE JET PLENUM – FRYER | HALTON | CJP–F | MH27607 | 2 | KES | ATTACH TO UNIVERSAL EXHAUST HOOD | |
| 69.01 | | 2 | CAPTURE JET PLENUM – GRILL | HALTON | CJP–G | MH27607 | 2 | KES | ATTACH TO UNIVERSAL EXHAUST HOOD | |
| 73.00 | | 1 | UNIVERSAL EXHAUST HOOD 3–VAT FRYER | KES | UH–50 | MH12755 | 2 | KES | – | |
| 79.23 | | 1 | UNIVERSAL EXHAUST HOOD FULL–CLAM/4–VAT FRYER | KES | UH–122 | MH12755 | 2 | KES | – | |
| 79.26 | | 2 | VENTLESS HOOD FOR COMBI OVEN | CONVOTHERM | CONOVENT MINI 6.10 | E325060 | 2 | KES | – | |
| 80.00 | | 1 | MECHANICAL CHASE | KES | 9"x18" SGCL. | E163328 | 2 | KES | – | |
| 80.08 | | 1 | MECHANICAL CHASE | KES | 9"x32" SGCL. | E163328 | 2 | KES | – | |
| 81.00 | | 1 | PROTEIN LOADING STATION KIT | KES | 272436 | – | 2 | KES | – | |
| 81.01 | | 1 | PRODUCT LANDING SHELF – SOLID TOP | KES | – | – | 2 | KES | – | |
| 82.00 | | 1 | LANDING TABLE | INTERMETRO | TLDP–S | – | 2 | KES | – | |
| 85.05 | | 1 | FROZEN FRY DISPENSER | RAM | 280–FP | E140753 | 4 | KES | – | |
| 91.02 | | 1 | WALL MOUNT FREEZER UNIT–SINGLE WIDE–HIGH CAPACITY | KES | HCWF1 | SA7329 | 7 | KES | AIR–COOLED, SELF–CONTAINED – MOUNT BOTTOM AT 51" AFF | HCWF1.99A INSTALL HARDWARE KIT REQUIRED |
| 93.00 | | 1 | UNIVERSAL EXHAUST HOOD FULL–CLAM GRILL | KES | UH–43 | MH12755 | 2 | KES | – | |
| 96.21 | | 2 | 36" NEXT GEN 3–PLATEN CLAMSHELL GRILL – ELECTRIC | GARLAND | ME–3PX | E28898 | 4 | KES | – | |
| 97.08 | | 1 | MEAT FREEZER – DOUBLE WIDE – HIGH CAPACITY – RIGHT HAND | KES | HCMF30B–RH | SA6032 S | 2 | KES | AIR–COOLED, SELF–CONTAINED | |
| 99.01 | | 2 | GRILL TOOL ORGANIZER – 43" HOOD | KES | – | – | 2 | KES | – | |
| 110.01 | | 1 | OPTIMIZED BREAKFAST TABLE | KES | OBT | – | 2 | KES | – | |
| 114.00 | | 1 | HUMIDIFIED HOLDING CABINET | MOFFAT | HP10T–LMD | 197 | 4 | KES | – | |
| 116.23 | | 2 | UNIVERSAL HOLDING CABINET – HIGH DENSITY – 2–SIDED – PIN & SLEEVE | FRYMASTER | UHCHD6T | E44571 | 4 | KES | – | |
| 117.30 | | 1 | UHC TABLE COPL – 2 SIDED – 51"D x 34"W – PIN&SLEEVE | KES | 91011 | – | 2 | KES | – | |
| 118.00 | | 1 | Q'ING OVEN – PIN & SLEEVE | AMANA | MC23MPW2 | E40456 | 4 | KES | – | |
| 118.03 | | 2 | Q'ING OVEN – PIN & SLEEVE | ACP | MCMOC24 | – | 4 | KES | – | |
| 122.27 | | 1 | NEXT GEN. UNIVERSAL RADIANT TOASTER – PIN & SLEEVE | ANTUNES | HRT–5H | – | 4 | KES | – | |
| 122.28 | | 1 | NEXT GEN. UNIVERSAL CONTACT TOASTER – PIN & SLEEVE | ANTUNES | HCT–5H | – | 4 | KES | – | |
| 123.36 | | 1 | ECU TABLE – COPL | KES | 90165 | – | 2 | KES | – | |
| 123.37 | | 1 | BREAKER PANEL– 125 AMP – 1 PHASE – EQUIPMENT MOUNTED | KES | – | – | – | KES | – | |
| 123.40 | | 1 | PREP TABLE – HD – 2–SIDED COPL – 38"D x 83 1/2" – PIN & SLEEVE W/REF. | KES | 91010 | – | 2 | KES | – | |
| 125.00 | | 2 | RAPID BUN STEAMER | PRINCE CASTLE | 625–MFY | – | 4 | KES | – | |
| 130.00 | | 2 | COMBI OVEN | CONVOTHERM | MS6102083LCMD1 | E360598 | 4 | KES | – | 0.89kW, 69% STEAM MODE, 0.61kW, 81% CONVECTION MODE |
| 134.02 | | 1 | VEGETABLE SINK | KES | SK04–4 | – | 2 | KES | – | |
| 139.04 | | 1 | COMBI OVEN STAND – DOUBLE WIDE | KES | – | – | 2 | KES | – | |
| 151.12 | | 1 | CLEAN DISHTABLE – LEFT HAND – 28.23" | KES | SK–SPL | – | 2 | KES | – | |
| 151.20 | | 1 | SOILED DISHTABLE – RIGHT HAND – 115.5" WIDE – NC CODE | KES | SK–SPL | – | 2 | KES | – | |
| 152.04 | | 1 | WAREWASHER HOOD | KES | – | | 3 | | TYPE 2 HOOD FOR NON GREASE APPLICATION – REQUIRED PER CODE | |
| 152.08 | | 1 | WAREWASHER – HIGH TEMP | HOBART | AM16SVLT–1 | | 3 | MANU–FACTURER | – | |
| 153.00 | | 1 | SCULLERY SHELVING KIT – 3 TIER – 14" x 36" | INTERMETRO | SHSS–4 | – | 2 | KES | – | |
| 153.04 | | 1 | SMALLWARE WALL ORGANIZER | INTERMETRO | SW1812–MPS | – | 2 | KES | – | |
| 153.06 | | 1 | REUSABLE DRYING RACK | INTERMETRO | MCD2124–DRY6 | – | 2 | KES | – | |
| 154.00 | | 1 | BRUSH CABINET | KES | 8047 | – | 4 | KES | – | |
| 157.00 | | 1 | TRASH LINER DISPENSER SHELF | KES | A0053 | – | 2 | KES | – | |
| 159.03 | | 1 | UNIVERSAL PARTS CART – 36" W | INTERMETRO | MCD–1836UPC | – | 2 | KES | – | |
| 160.01 | | 4 | CHEMICAL SYSTEM | ECOLAB | – | – | – | MANU–FACTURER | – | |
| 163.00 | | 2 | FIRE EXTINGUISHER – 5 LB. – ABC | ANSUL | SEE RMKS | – | – | SEE RMKS | LOCAL ANSUL AGENT SPECIFIES, SUPPLIES & LOCATES PER LOCAL CODE | |
| 163.01 | | 2 | FIRE EXTINGUISHER – 6 L. – K GUARD | ANSUL | SEE RMKS | – | – | SEE RMKS | LOCAL ANSUL AGENT SPECIFIES, SUPPLIES & LOCATES PER LOCAL CODE | |
| 163.02 | | 4 | REMOTE ANSUL PULL | ANSUL | 4835 | EX3470 | – | SEE RMKS | CODE MAY REQUIRE LOCAL ANSUL AGENT TO SUPPLY | |
| 171.01 | | 1 | WALK–IN COOLER / FREEZER FLOORLESS | NORLAKE | – | E42763 | 7 | KES | – | |
| 174.36 | | 1 | REMOTE CONDENSING UNIT | BOHN | BCH0010MBACZC0225 | SA4272 | – | KES | BEACON II/INTELLIGEN SYSTEM | |
| 174.45 | | 1 | REMOTE CONDENSING UNIT | BOHN | BCH0055LCACZC0225 | SA4272 | – | KES | BEACON II/INTELLIGEN SYSTEM | |
| 175.18 | | 1 | COOLER EVAPORATOR | BOHN | BEL0095BS6AMAD0096 | SA1525 | – | KES | INTELLIGEN EVAPORATOR | |
| 176.27 | | 1 | FREEZER EVAPORATOR | BOHN | BEL0170BS6EEAD0096 | SA1525 | – | KES | INTELLIGEN EVAPORATOR | |
| 177.03 | | 1 | REACH–IN REFRIGERATOR–SINGLE WIDE | BEVERAGE AIR | HR1HC–1HS | SA2651 | 7 | KES | – | |
| 178.05 | | 3 | REACH–IN FREEZER – SINGLE WIDE | BEVERAGE AIR | HF1HC–1HS | SA2651 | 7 | KES | – | |
| 181.13 | | 1 | REFRIGERATOR – SPECIALTY COFFEE– 27" WIDE | TRUE | TUC–27 MCDCF1 | SA33040 | 7 | KES | RIGHT–HAND HINGED | |
| 181.14 | | 1 | REFRIGERATOR – WORKTOP – 48" WIDE | TRUE | TWT–48 MCD1 | SA4065 | 7 | KES | – | |

x = Optional Equipment
GC = General Contractor
R = Relocated Equipment
VIF = Verify in Field

# EQUIPMENT SCHEDULE

| ITEM | O | QTY | DESCRIPTION | MANUFACTURER | MODEL # | UL | NSF | FURNISHED | GENERAL REMARKS | SPECIAL REQUIREMENTS |
|---|---|---|---|---|---|---|---|---|---|---|
| 183.00 | | 2 | REFRIGERATOR/FREEZER – 2 DRAWER BASE – 30" W X 33" H | KES | 18012498 | SA4044 | 7 | KES | – | |
| 183.02 | | 3 | REFRIGERATOR/FREEZER – 2 DRAWER BASE – 30" W X 30" H | KES | 18021304 | SA4044 | 7 | KES | – | |
| 187.66 | | 1 | FREEZER SHELVING 18" x 42" x 74" H. – 4 –TIER | ISS SHELVING | FSMS/FSMA741842E | – | 2 | KES | – | |
| 187.72 | | 1 | FREEZER SHELVING 24" x 42" x 74" H. – 4–TIER | ISS SHELVING | FSMS/FSMA742442E | – | 2 | KES | – | |
| 187.75 | | 2 | FREEZER SHELVING 24" x 60" x 74" H. – 4–TIER | ISS SHELVING | FSMS/FSMA742460E | – | 2 | KES | – | |
| 188.00 | | 3 | DUNNAGE RACK 22" x 36" | INTERMETRO | HP2236PD | – | 2 | KES | – | |
| 188.07 | | 1 | UNIVERSAL STAGING CART | ISS SHELVING | WST1384Y | – | 2 | KES | – | |
| 188.08 | | 3 | DUNNAGE RACK 22" x 30" | INTERMETRO | HP2230PD | – | 2 | KES | – | |
| 188.09 | | 4 | DUNNAGE RACK 22" x 48" | INTERMETRO | HP2248PD | – | 2 | KES | – | |
| 189.65 | | 1 | COOLER SHELVING 18" x 36" x 74" H. – 4 –TIER | ISS SHELVING | FSMS/FSMA741836E | – | 2 | KES | – | |
| 189.72 | | 1 | COOLER SHELVING 24" x 42" x 74" H. – 4–TIER | ISS SHELVING | FSMS/FSMA742442E | – | 2 | KES | – | |
| 189.73 | | 2 | COOLER SHELVING 24" x 48" x 74" H. – 4–TIER | ISS SHELVING | FSMS/FSMA742448E | – | 2 | KES | – | |
| 189.75 | | 1 | COOLER SHELVING 24" x 60" x 74" H. – 4–TIER | ISS SHELVING | FSMS/FSMA742460E | – | 2 | KES | – | |
| 191.01 | | 3 | VALANCE SHELVING – 18" x 48" | INTERMETRO | M1848C–MP | – | 2 | KES | MOUNT AT 6'–8"AFF TO SHELF BOTTOM UNLESS OTHERWISE NOTED | |
| 191.02 | | 2 | VALANCE SHELVING – 18" x 60" | INTERMETRO | M1860C–MP | – | 2 | KES | MOUNT AT 6'–8"AFF TO SHELF BOTTOM UNLESS OTHERWISE NOTED | |
| 191.03 | | 1 | VALANCE SHELVING – 18" x 30" | INTERMETRO | M1830C–MP | – | 2 | KES | MOUNT AT 5'–0"AFF TO SHELF BOTTOM FOR ABOVE WASHER APPLICATION | |
| 191.04 | | 1 | VALANCE SHELVING – 18" x 36" | INTERMETRO | M1836C–MP | – | 2 | KES | MOUNT AT 5'–0"AFF TO SHELF BOTTOM –W/ST STL LINER FOR SALAD EQUIP | |
| 194.35 | | 3 | DRY SHELVING 26" x 88" x 84" H.– 4–TIER – MOBILE | DENSTOR | – | – | 2 | KES | – | |
| 194.47 | | 1 | DRY SHELVING 26" x 52" x 84" H.– 4–TIER – FIXED | DENSTOR | – | – | 2 | KES | – | |
| 195.35 | | 2 | DRY SHELVING 26" x 88" x 84" H.– 5–TIER – MOBILE | DENSTOR | – | – | 2 | KES | – | |
| 195.50 | | 1 | DRY SHELVING 26" x 88" x 84" H.– 5–TIER – FIXED | DENSTOR | – | – | 2 | KES | – | |
| 196.06 | | 1 | SAFE – STANDARD BLDG. – LEFT HINGE | NKL | BSD4125FGXL–MC | – | – | OWNER | – | |
| 197.00 | | 2 | STAINLESS STEEL HAND SINK | ADVANCE TABCO | 7–PS–61 | – | 2 | GC | REFER TO PLUMB. DWGS. FOR DETAILS, SOAP & TOWEL DISP. BY OTHERS | PROVIDE SIDE SPLASHES (7–PS–11) WHEN REQUIRED BY LOCAL CODE |
| 197.01 | | 1 | HAND WASH TIMER | NATIONAL CONTROLS | TMD–T1715–120 | E53595 | – | KES | – | |
| 197.03 | | 2 | STAINLESS STEEL HAND SINK – ADA | ADVANCE TABCO | 7–PS–26 | – | 2 | GC | REFER TO PLUMB. DWGS. FOR DETAILS, SOAP & TOWEL DISP. BY OTHERS | PROVIDE SIDE SPLASHES (7–PS–11D) WHEN REQUIRED BY LOCAL CODE |
| 201.13 | | 1 | DRIVE–THRU CASH STAND – 21" D x 48" W | INTERMETRO | DT48–8 | – | 2 | KES | SOLID WORK TOP, WIRE SHELVES | |
| 201.15 | | 1 | READY NEXT DRIVE–THRU ASSEMBLY CART – 12" D x 36" W | INTERMETRO | DTPC–36 | – | 2 | KES | – | |
| 201.16 | | 2 | DRIVE–THRU ABS CART | KES | – | – | 2 | KES | ABS DRINK STAGING CART WITH TROUGH | |
| 201.18 | | 2 | CBB STAGING CART | INTERMETRO | MCD–CBB | – | 2 | KES | – | |
| 201.21 | | 1 | BLZ FRONT COUNTER TABLE – 30" D x 14" W | INTERMETRO | MCD1430–BLZM | – | 2 | KES | W/ CASTERS AND OVERSHELF | |
| 203.01 | | 1 | HEAT TREAT COMBINATION SHAKE/SUNDAE MACHINE | CARPIGIANNI | K3 | SA4203 | 6 | KES | SUPPLIED WITH CONE DISPENSER AND 7'–6" LONG CORD | |
| 203.03 | | 1 | CUP/CONE DISPENSER | KES | – | – | 2 | KES | – | |
| 205.08 | | 1 | BIC MACHINE | MULTPLEX | MA–8–2 | SA12070 | 6 | KES | – | |
| 205.09 | | 1 | FROZEN BEVERAGE DISPENSER | IMI CORNELIUS | VIPER 3 | SA2128 | 6 | KES | – | |
| 206.01 | | 1 | SPECIALTY BEVERAGE STANDOFF SHELF | KES | KES | – | 2 | KES | MOUNT SHELF @ 2'–6" AFF | |
| 207.01 | | 1 | BLENDER – RAIL MOUNT – MCFLURRY | VITAMIX | 056385 | – | 8 | KES | SUPPLIED MOUNTING BRACKETS | |
| 207.09 | | 1 | DESSERT BUTLER | KES | – | – | 2 | KES | – | – |
| 211.00 | | 1 | DELIVERY TABLET | APPLE | IPAD | – | – | DELIVERY PARTNER | QUANTITY DEPENDENT UPON NUMBER OF DELIVERY PARTNERS | |
| 214.02 | | 1 | TECHNOLOGY RACK | BY OWNER | BY OWNER | OEM | – | OWNER | V.I.F. EXACT LOCATION FOR NETWORK RACK | |
| 215.00 | | 1 | POS REGISTER – FRONT COUNTER | BY OWNER | BY OWNER | OEM | – | OWNER | INCLUDES MONITOR AND CPU | |
| 215.02 | | 4 | POS REGISTER – 2 WINDOW D/T | BY OWNER | BY OWNER | OEM | – | OWNER | INCLUDES MONITOR AND CPU | |
| 215.04 | | 8 | POS – KVS MONITOR | BY OWNER | BY OWNER | OEM | – | OWNER | – | |
| 215.07 | | 1 | POS REGISTER – DELIVERY | BY OWNER | BY OWNER | OEM | – | OWNER | – | |
| 216.00 | | 8 | POS – VIDEO MONITOR | BY OWNER | BY OWNER | E106786 | – | OWNER | SUPPORTS INSTALLED BY GC IF REQUIRED – MOUNT @ 5'–8" AFF | FOR APPLICATIONS ABOVE ABS, MOUNT AT 6'–6" AFF |
| 217.13 | | 3 | MERGE POINT MONITOR (DOUBLE DRIVE–THRU) | BY OWNER | BY OWNER | – | – | OWNER | MONITORS ARE REQUIRED FOR SIDE BY SIDE DRIVE THRU SYSTEM | – |
| 217.14 | | 1 | POS – ORDER MONITOR (DOUBLE DRIVE THRU) | BY OWNER | BY OWNER | E106786 | – | OWNER | SUPPORTS INSTALLED BY GC IF REQUIRED – MOUNT @ 5'–8" AFF | |
| 217.19 | | 1 | WIRELESS HEADSET BASE STATION | HME | NEXEO HDX | – | – | OWNER | – | |
| 217.24 | | 1 | DANGER POINT MONITOR (DOUBLE DRIVE–THRU) | BY OWNER | BY OWNER | – | – | OWNER | MONITORS ARE REQUIRED FOR SIDE BY SIDE DRIVE THRU SYSTEM | |
| 217.26 | | 1 | ZOOM TIMER | HME | ZOOM NITRO | – | – | OWNER | – | |
| 219.00 | | 4 | POS – RECEIPT PRINTER | BY OWNER | BY OWNER | OEM | – | OWNER | – | |
| 219.05 | | 7 | STICKY LABEL PRINTER | BY OWNER | BYOWNER | OEM | – | OWNER | – | – |
| 219.06 | | 1 | LABELING SYSTEM | TRANSACT | 9700 | – | – | KES | – | |
| 220.00 | | 1 | POS – COIN DISPENSER | BY OWNER | BY OWNER | OEM | – | OWNER | – | |
| 221.01 | | 1 | POS – OFFICE | BY OWNER | BY OWNER | OEM | – | OWNER | – | |
| 221.09 | | 1 | O/O EQUIPMENT RACK | TRIPP–LITE | SRW12USDP | – | – | OWNER | AVAILABLE THROUGH POS SUPPLIER | |
| 222.01 | | 1 | TIME CLOCK | BY OWNER | BY OWNER | OEM | – | OWNER | – | |
| 223.07 | | 1 | WASHER – ELECTRIC | WHIRLPOOL | CAE2793BQ | – | – | KES | – | |
| 225.03 | | 1 | OFFICE PACKAGE/DESK UNIT | DENSTOR | 2000–0100 | – | – | KES | WORK SURFACE 75", (1) DESK PEDESTAL W/ 2 DRAWERS AND (1) PEDESTAL W/ 3 DRAWERS | |
| 225.04 | | 1 | OFFICE PACKAGE/ 2–WALL CABINETS | DENSTOR | 2000–0200 | – | – | KES | – | |
| 225.05 | | 1 | OFFICE PACKAGE/HIGH WORK SURFACE | DENSTOR | 2000–0300 | – | – | KES | W/ (6) L–BRACKETS – WORK SURFACE IS 75" W. – CUT IN FIELD IF REQUIRED | |
| 225.06 | | 1 | OFFICE PACKAGE W/3 DRAWER LATERAL FILE | DENSTOR | 2000–0400 | – | – | KES | – | |
| 226.08 | | 3 | CREW LOCKERS –12" x 12" x 18" (6 HIGH) | DENSTOR | 3–121278 | – | 2 | KES | – | |
| 237.00 | | 1 | PIE DISPLAY | PRINCE CASTLE | 524–MCDC | E341354 | 4 | KES | PROVIDE WITH S/S PANEL | |
| 700.02 | | 2 | MOP SINK | GC | – | – | 2 | GC | – | |
| 700.07 | | 1 | WATER HEATER – GAS | GC | SEE RMKS | – | 2 | GC | REFER TO PLUMB. DWGS. FOR DETAILS | |
| 700.09 | | 1 | ECONOMY OEP BOX W/MOUNTING HARDWARE | ACS | OEP–6 | E71309 | – | KES | 6" W. x 24" D. | |
| 700.10 | X | 1 | BULK OIL SYSTEM | RTI | BI–3F | SEE RMKS | 4 | MANU–FACTURER | IF AVAILABLE IN MARKET – ETL ELECTRICAL RATING: 9900762 | |
| 700.11 | | 1 | OEP UTILITY PANEL W/ MOUNTING HARDWARE – STATIC BOX | H&K DALLAS | – | – | – | H&K DALLAS | 2'–4"x2'–4" x4" HIGH BOX | |
| 700.18 | X | 1 | BULK OIL FILL BOX – 8"Wx10"H | RTI | – | – | – | MANU–FACTURER | SEE EXTERIOR ELEVATIONS FOR MOUNTING HEIGHT, INSTALLED BY GC | |

1 / K2.1 KITCHEN SCHEDULE

SEE SHEET K2.0 FOR EQUIPMENT LAYOUT AND TAG IDENTIFICATION

## GENERAL NOTES:

- KITCHEN DRAWINGS ARE CREATED BY MCDONALD'S CORPORATE OFFICE.
- THE ENGINEER OF RECORD PROFESSIONAL SEAL IS PROVIDED AS A PART OF INCLUDING THESE EQUIPMENT DRAWINGS AND AS A PART OF THE OVERALL PROJECT SCOPE, ONLY. THE DESIGN AND PROFESSIONAL RESPONSIBILITY ASSOCIATED WITH THE DESIGN SCOPE SHOWN ON THIS DOCUMENT IS BY OTHERS.
- THE INTENT OF THIS DRAWING IS TO INCLUDE ALL ITEMS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE CONSTRUCTION WORK – AND TO PROVIDE (FURNISH AND INSTALL) ALL EQUIPMENT OR ACCESSORIES REQUIRED FOR PROPER OPERATION, IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. FOR ANY DISCREPANCIES GC TO COORDINATE KITCHEN CONSULTANT AND THE MANUFACTURER.
- THE REQUIRED DESIGN AND CALCULATIONS ARE COMPLETED IN THE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS WITHIN THE SET.

| NO. | DESCRIPTION | DATE |
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| REV | | DATE: |

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DRAWN BY: RH
STD ISSUE DATE: 2023 11
REVIEWED BY: GA
DATE ISSUED: 9/6/2024

TITLE: 2024 STANDARD BUILDING – BB20
4584–WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & CI
WOOD TRUSS ROOF FRAMING
BRICK / ALPOLIC PANEL

SITE ADDRESS
NSN: 10721
L/C: 032–0312
102 W CORNELIUS HARNETT BLVD
LILLINGTON, NC

SHEET NO.
032–0312.00.0
K2.1
KITCHEN SCHEDULE

PROJECT No. 60734777 Task: 032–0312