

GENERAL NOTES

- 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.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE OWNER'S VENDORS REGARDING SCHEDULING ON SITE DURING CONSTRUCTION AND SEQUENCING OF THE WORK.
- 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.
- 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.
- 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.
- 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.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING IN WALLS FOR SUPPORT OF ALL EQUIPMENT, SHELVING, ACCESSORIES, SIGNAGE, AND OTHER DEVICES REQUIRED.
- ALL PENETRATIONS SHALL RECEIVE CAULKING TO SEAL ANY TYPE OF ENERGY LOSS.
- THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL APPLICABLE DIMENSIONS OF FIXTURES AND EQUIPMENT SUPPLIED AND/OR INSTALLED BY OTHERS.
- 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.
- 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.
- GENERAL CONTRACTOR TO PROVIDE FOUR (4) 30 YARD DUMPSTERS DURING McDONALD RETAIL MOVE-IN.
- GENERAL CONTRACTOR SHALL PROVIDE ONE SKILLED LABORER FOR ONE WEEK DURING McDONALD RETAIL MOVE-IN. (40 HOURS)
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SET-UP AND COORDINATION OF ALL THE UTILITY SERVICES FOR THE PROJECT.
- ALL EXTERIOR FLOOR PLAN DIMENSIONS ARE TO EXTERIOR FACE OF MASONRY UNLESS OTHERWISE NOTED. ALL INTERIOR FLOOR PLAN DIMENSIONS ARE TO FACE OF INTERIOR WALL BOARD UNLESS OTHERWISE NOTED.
- FINAL KEYING TO BE COORDINATED WITH McDONALD FACILITY MANAGER AND PAID FOR BY McDONALD.
- 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.

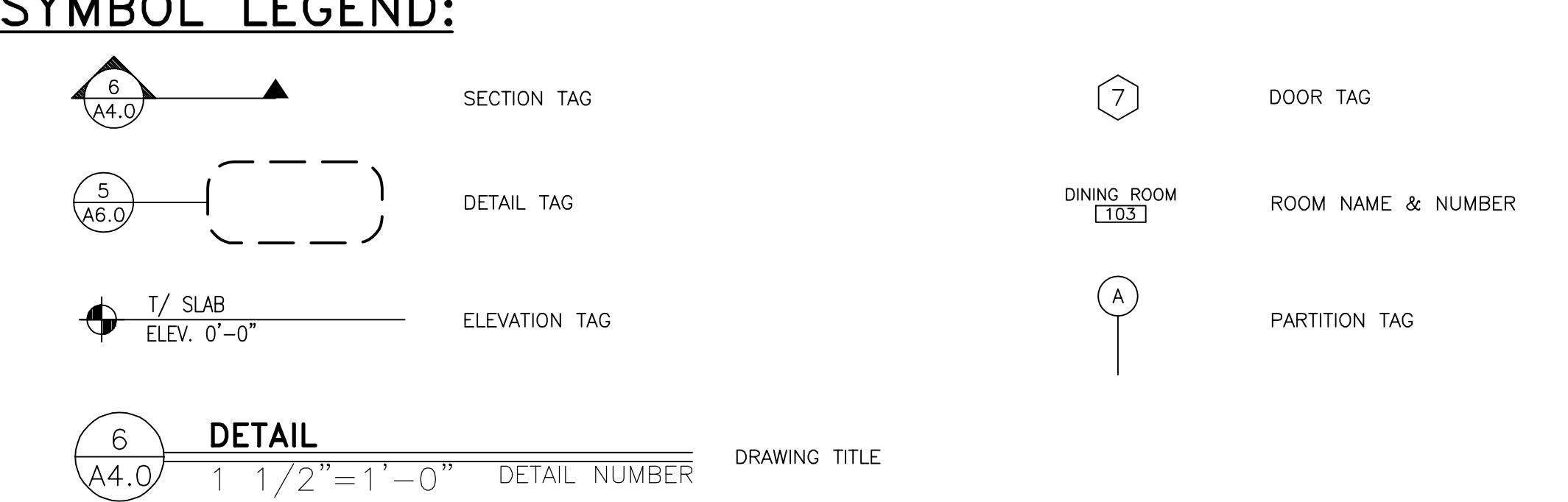
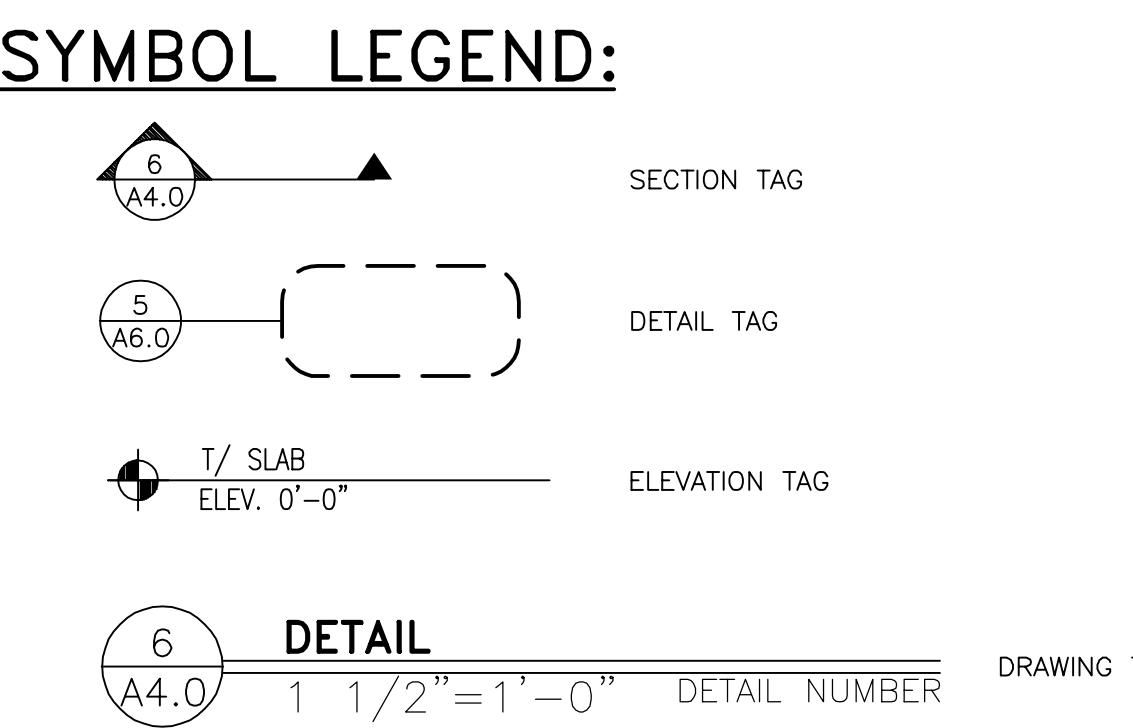
ABBREVIATIONS

GENERAL 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
HD	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	SPASH-BLOCK
SIM	SIMILAR
SPEC	SPECIFICATION
SS	STAINLESS STEEL
STL	STEEL
STOR	STORAGE
SUSP	SUSPENDED
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
WD	WOOD
WP	WATERPROOF
WWF	WELDED WIRE FABRIC

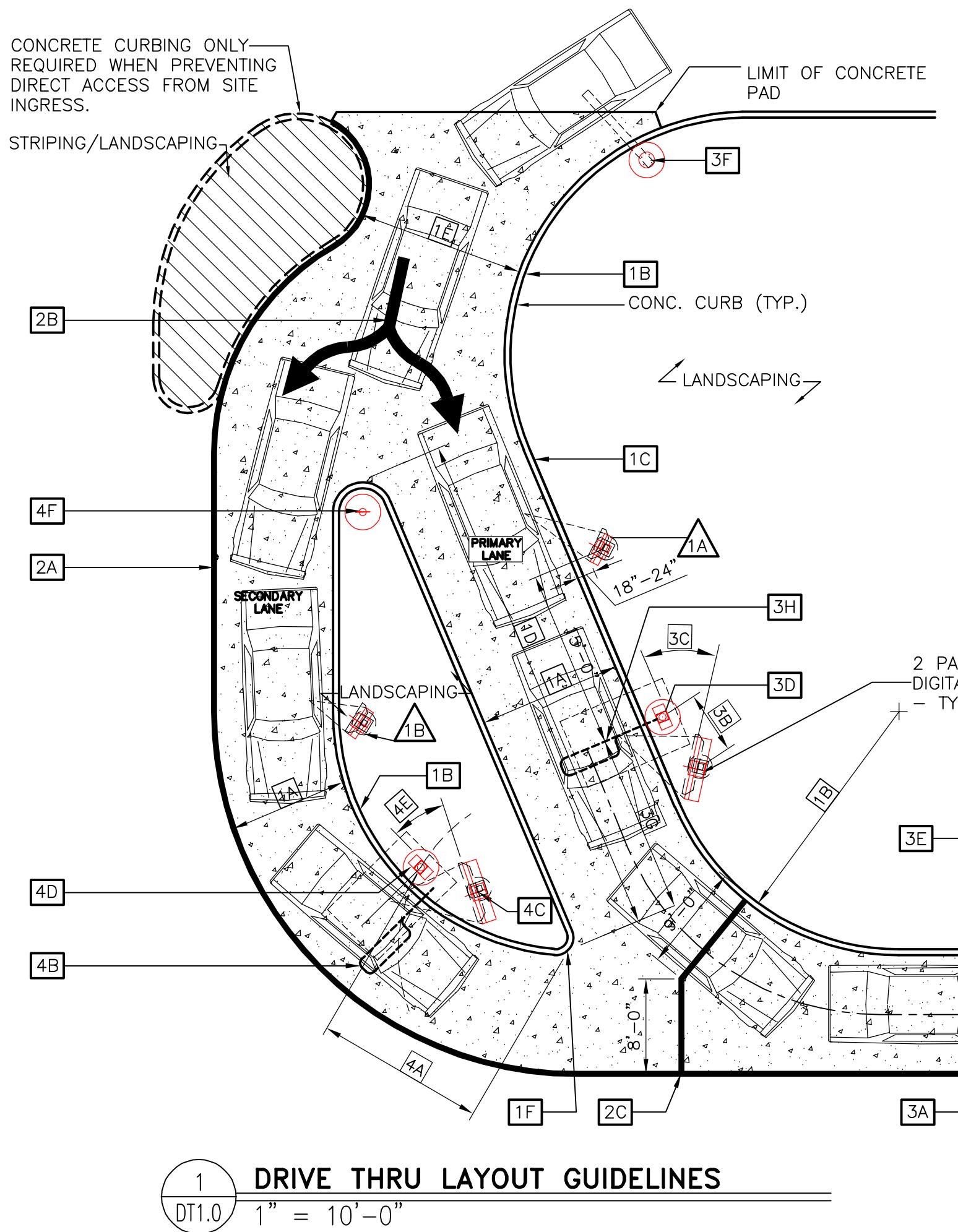
McDONALD'S ABBREVIATIONS

AP	ALPOLIC METAL PANEL
BM	BRAKE METAL
C	ALUMINUM CANOPY
CG	CORNER GUARD
CT	WALL TILE
D#	DECOR ELEMENT OR FINISH
DEVICE	DECOR ELEMENT OR FINISH
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	KIOSK
L	LIGHT FIXTURE
LAM	LAMINATE
LE	ACCENT LIGHTING
LP	LOW POINT
LL	LEVEL LANDING
MACHINE	MACHINE
MANAGER	MANAGER
MF	METAL FASCIA
MS	MOP SINK
PB	PIPE BOLLARD
PT	RMHC COIN COLLECTOR
RL	ROOF LADDER
ROOM	ROOM
S	McDONALD'S SIGNAGE
SCHLUTER	SCHLUTER
UN	ALUMINUM CANOPY underscore



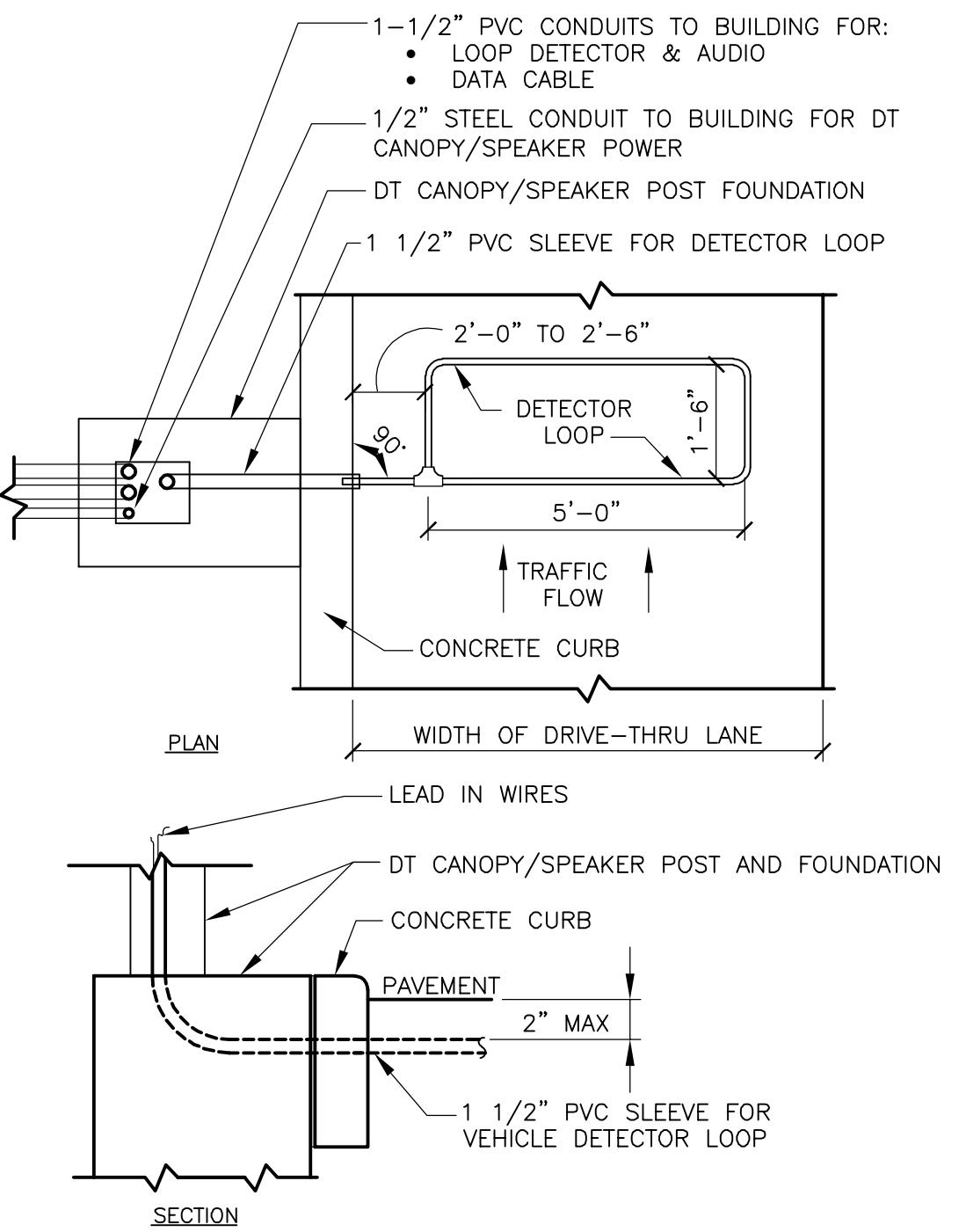
REV	DATE	DESCRIPTION
1	09/26/24	WCD GC COMMENTS & FOUNDATION, PLUMBING, AND DOOR UPDATES
2	12/26/24	ELEVATIONS REDRAWN & PROTO UPDATE
3	07/24/25	SQUARED OFF BACK & ADDED V/H ARTICULATIONS & UPDATED ADDRESS
		JAW Architects, Inc. James Williams, Architect Phone 817-705-3387 Email: James@jawsaw.com
		REGISTERED ARCHITECT STATE OF TEXAS REGISTRATION NO. 18926
		PREPARED BY: McDonald's USA, LLC
		PREPARED FOR: McDonald's USA, LLC
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		DRAWN BY: JAW
		REVIEWED BY: JAW
		SITE ID: 13620 E US 290 HWY MAJOR TEXAS
		402-3548
		GENERAL NOTES

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

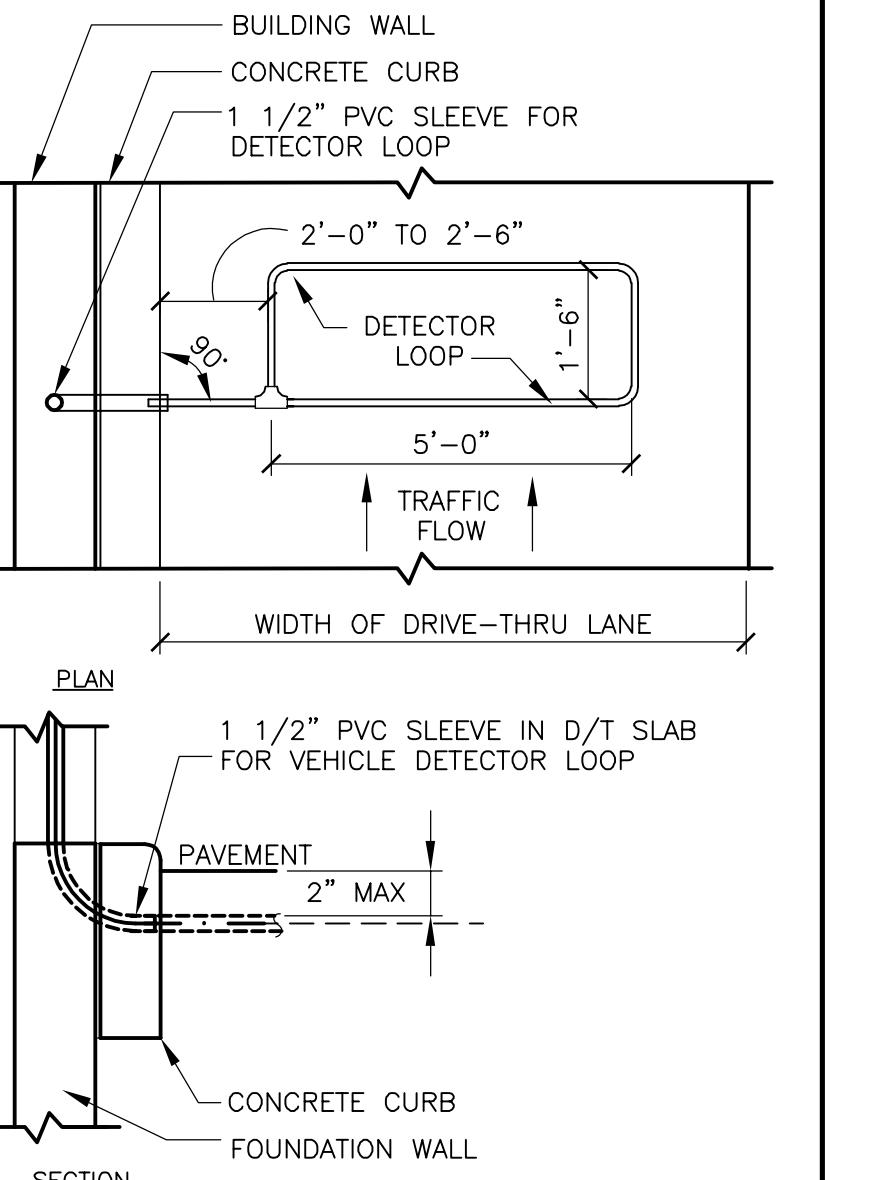


- NOTES**
- VERIFY CONDUIT SIZES AND LAYOUT WITH DETECTOR LOOP MANUFACTURER.
 - CENTER VEHICLE DETECTOR LOOP IN DRIVE THRU LANE. INSTALL PER MFR. RECOMMENDATIONS.
 - NO STEEL (REBAR OR ELECTRICAL WIRE) SHALL BE USED WITHIN 2' OF LOOP.
 - DETECTOR LOOP MANUFACTURERS:
DETECTOR LOOPS MAY BE BY ONE OF THE FOLLOWING COMPANIES OR EQUAL.
3M: 1-800-328-0033
HME: 1-800-848-4468
 - 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.
 - DETECTOR LOOP CONSTRUCTION:
FORMED WITH ONE CONTINUOUS LENGTH OF PVC WITH NO SHARP CORNERS AS DETAILED. WIRE LOOPED, FORMED, & PIGTAILED AS DETAILED.

2 DETECTOR LOOP DETAILS
DT1.0 NOT TO SCALE



A - DT CANOPY/SPEAKER DETECTOR LOOP



B - DT WINDOW DETECTOR LOOP

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" ARM 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 BUT 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 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 (APPROXIMATELY 50°) OF THE PRE-BROWSE BOARD SHOULD MAXIMIZE VISIBILITY TO THE SECOND CAR FROM DT CANOPY/SPEAKER (PREFERRED 35°).

GENERAL NOTES

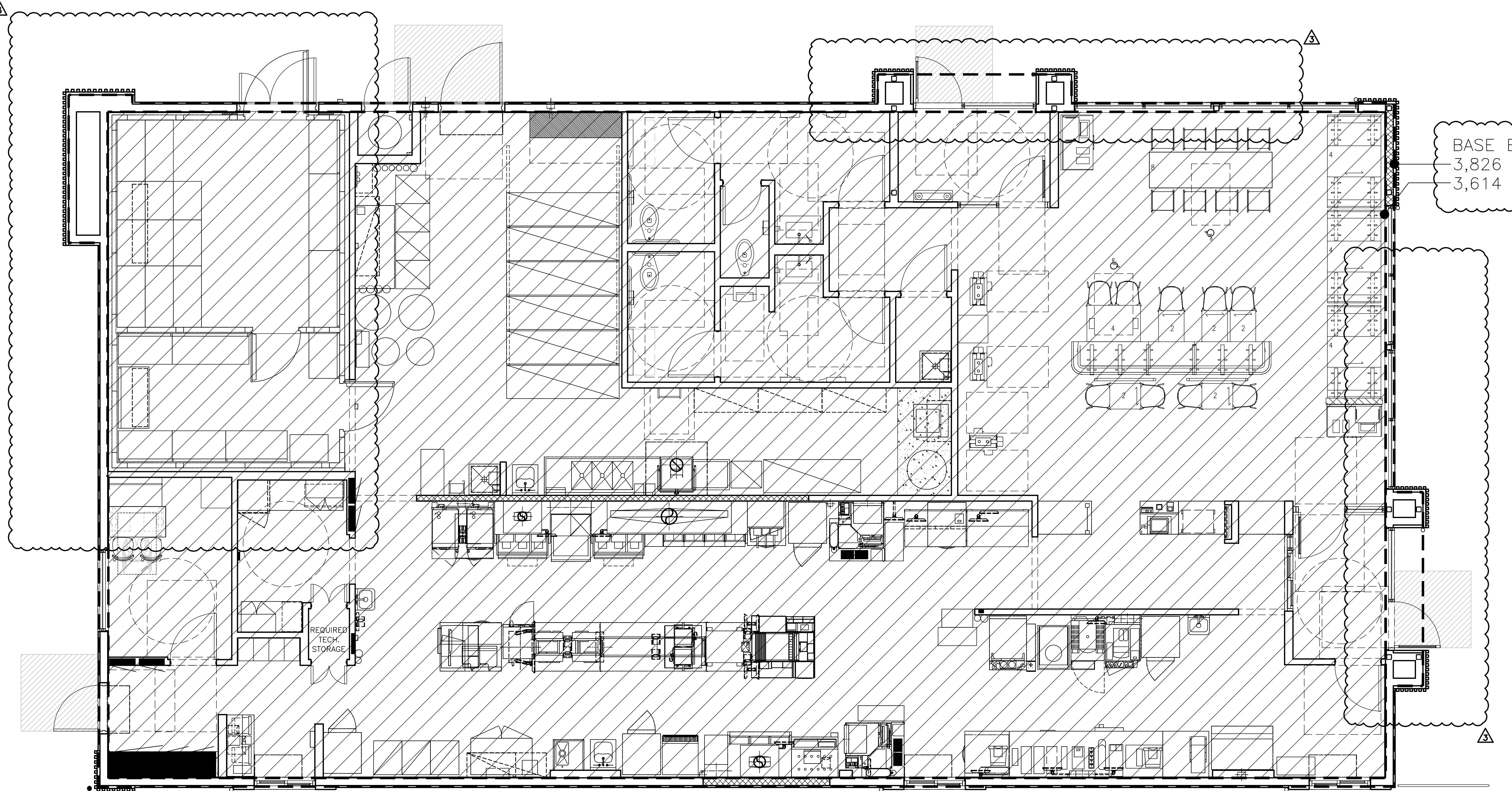
- 1. DRIVE-THRU ELEMENTS:**
DT CANOPY/SPEAKER DRIVE-THRU PYLON/CLEARANCE POLE AND BOLLARD SIGN SHALL BE CONSISTENT WITH THE STANDARD BUILDING DESIGN DRIVE-THRU ELEMENTS. OTHER DESIGNS MAY NOT BE USED.
- CONTRACTOR SHALL COORDINATE WITH APPLICABLE PLANS, McDONALD'S AREA CONSTRUCTION MANAGER, CONTENT SUPPLIER 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.
- 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.
- 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.
- CONTRACTOR TO COORDINATE THE RESPONSIBILITIES OF THE ELECTRICAL CONTRACTOR, CONTENT SUPPLIER AND THE SIGN SUPPLIER.
- CONTRACTOR TO INSTALL PRE-FORMED, PRE-WIRED VEHICLE DETECTOR LOOP.
- CONTRACTOR SHALL VERIFY CONDUIT SIZES REQUIRED BY VEHICLE LOOP DETECTOR SUPPLIER.

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JAW	JAW	08/20/24	12/20/24	McDonald's USA, LLC
		07/24/25		ELEVATIONS REDRAWN & PROTO UPDATE
				SQUARED OFF BACK & ADDED V/H ARTICULATIONS & UPDATED ADDRESS
				REV DATE

REGISTERED ARCHITECT
STATE OF TEXAS
FEB 26 1998
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DT1.0
DRIVE-THRU DETAILS
TITLE: 2024 STANDARD BUILDING - BB20
DESCRIPTION: WOOD BEARING WALLS WITH HARDE SIDING
WOOD ROOF TRUSS FRAMING
EFS/BATTEN/METAL/HARDE SIDING EXTERIOR FINISHES
SITE ID: 13620 E US 290 HWY 385
SHEET NO.: DT1.0
DRAWN BY: JAW
STD ISSUE DATE: 2024
STD REVISED DATE: 07/19/2024
REVIEWED BY: JAW
DATE ISSUED: 07/19/2024
PREPARED FOR: JAW
PREPARED BY: JAW
REV DATE: 04-22-2024
BY: JAW



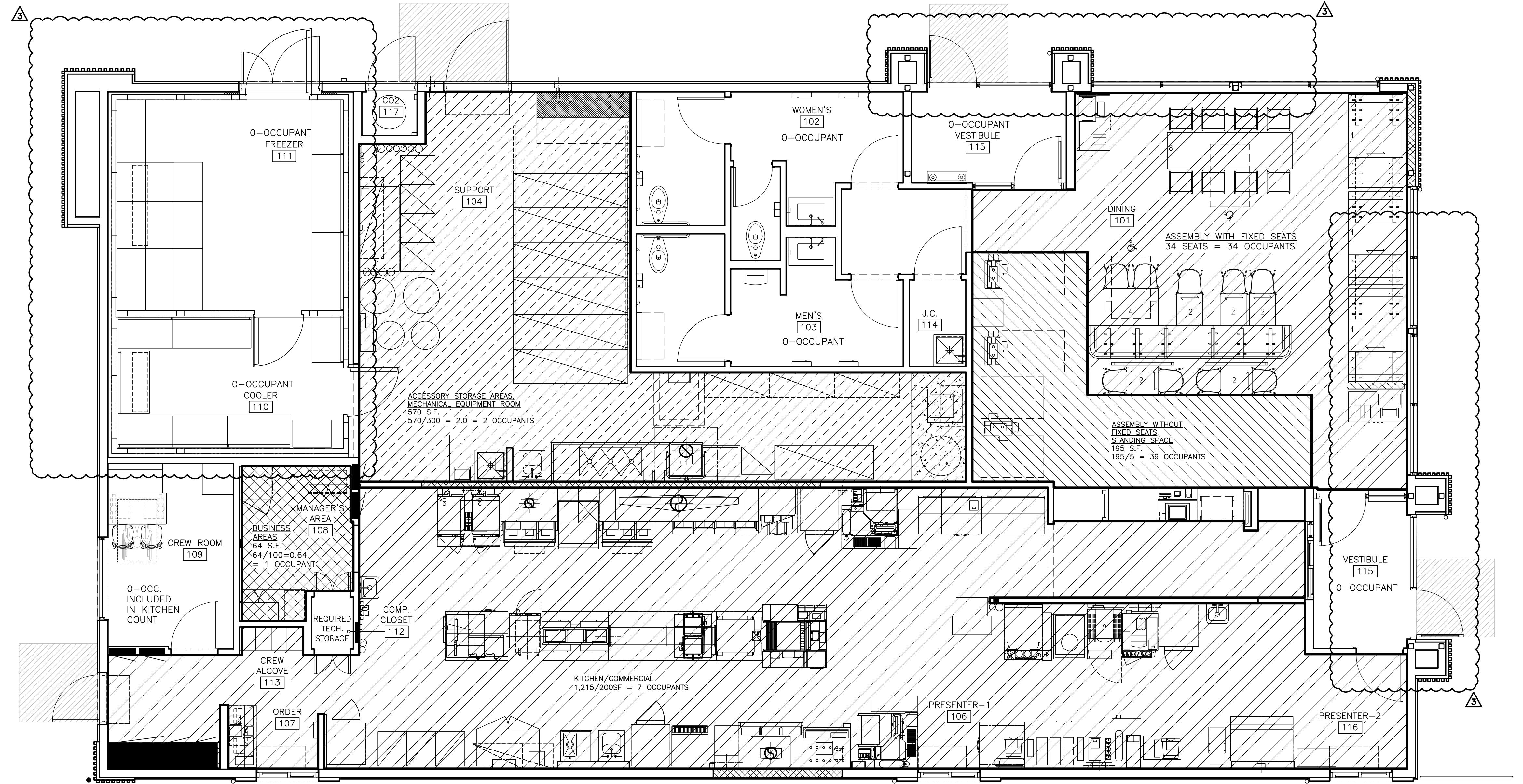
1
R1.0) SQUARE FOOTAGE PLAN
1 1/4" = 1'-0"

SHEET NO.	TITLE	DRAWN BY	PREPARED BY:
R1.0	2024 STANDARD BUILDING - BB20 4584-WOOD/WOOD	JAW	@2025 McDonald's USA, LLC
		STD ISSUE DATE	McDonald's USA, LLC
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			James Williams, Architect
			Phone 817-705-3387 Email:jwteam@jwteam.com
		REVIEWED BY	
		JAW	
		DATE ISSUED	
		07/19/2024	
	DESCRIPTION	SHEET NUMBER	
	WOOD BEARING WALLS WITH HARDIE SIDING WOOD ROOF TRUSS FRAMING EIFS/BATEN/METAL/HARDIE SIDING EXTERIOR FINISHES	24-0107	
	SITE ID	JAWA 24-0107	
		042-3548	
		13620 E US 290 HWY WEB MANOR TEXAS	

PREPARED BY:	1 09/20/24	MCD OC COMMENTS & FOUNDATION, PLUMBING, AND DOOR UPDATES
	2 12/20/24	ELEVATIONS REDESIGN & PROTO UPDATE
	3 07/24/25	SQUARED OFF BACK & ADDED V/H ARCHITECTURES & UPDATED ADDRESS
REV.	DATE	DESCRIPTION

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REGISTERED ARCHITECT
STATE OF TEXAS
SINCE 1926
JAMES H. WILLIAMS, INC.
JAMES WILLIAMS, Architect

PREPARED BY:	1 09/20/24	MCD OC COMMENTS & FOUNDATION, PLUMBING, AND DOOR UPDATES
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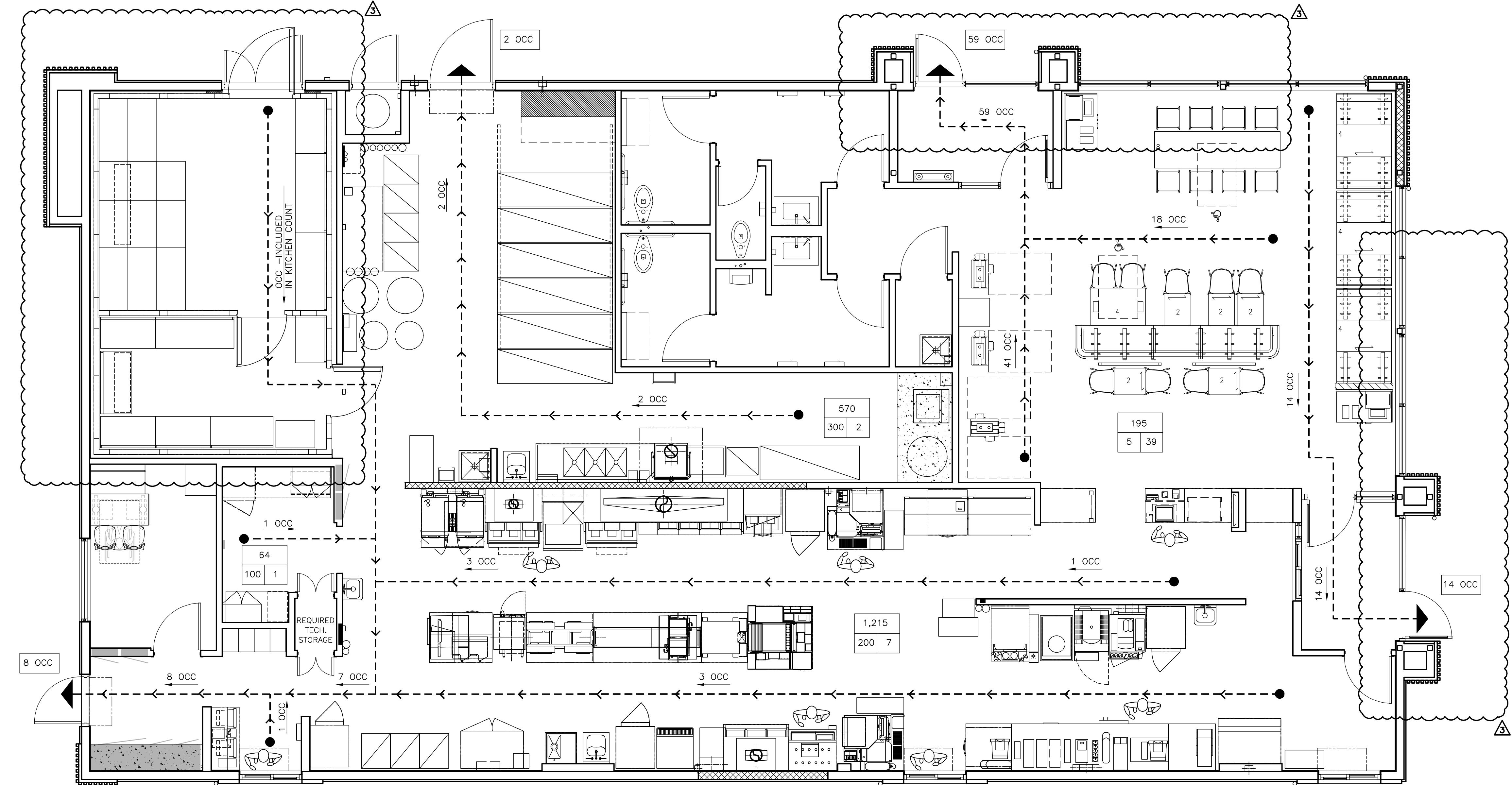
OCCUPANY COUNT PLAN

OCCUPANCY ALLOWANCE:

2015 INTERNATIONAL BUILDING CODE

TABLE 1004.1.2 MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT				
FUNCTION OF SPACE	ALLOWANCE	AREA	OCCUPANTS	
ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300 GROSS	570 SF	2	/\
ASSEMBLY WITH FIXED SEATS	SEE PLAN	—	34	/\
ASSEMBLY W/OUT FIXED SEATS STANDING SPACE	5 NET	195 SF	39	/\
BUSINESS AREAS	100 GROSS	64 SF	1	XX
KITCHENS, COMMERCIAL	200 GROSS	1,215	7	/\
TOTAL OCCUPANCY ALLOWANCE				83

2024 STANDARD BUILDING – BB20		JAW	
4584-WOOD/WOOD		STD ISSUE DATE	2024
DESCRIPTION		REVIEWED BY JAW	
WOOD BEARING WALLS WITH HARDIE SIDING WOOD ROOF TRUSS FRAMING EIFS/BATTEN/METAL/HARDIE SIDING EXTERIOR FINISHES		DATE ISSUED 07/19/2024	
SITE ID	SITE ADDRESS 042-3548 13620 E US 290 HWY WB, MANOR TEXAS		
JAWA 24-0107		OCCUPANCY PLAN	
 McDonald's USA, LLC <small>McDonald's USA, LLC</small>			
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 JAW <small>JAW ARCHITECTS INC.</small>			
			
<p>Phone: 817-705-3387 Email: jeramy@jaw-arch.com Jeramy Williams, Architect</p>			
		REV	DATE
		DESCRIPTION	
		BY	



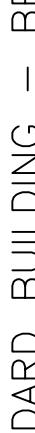
EXITING/EGRESS PLAN

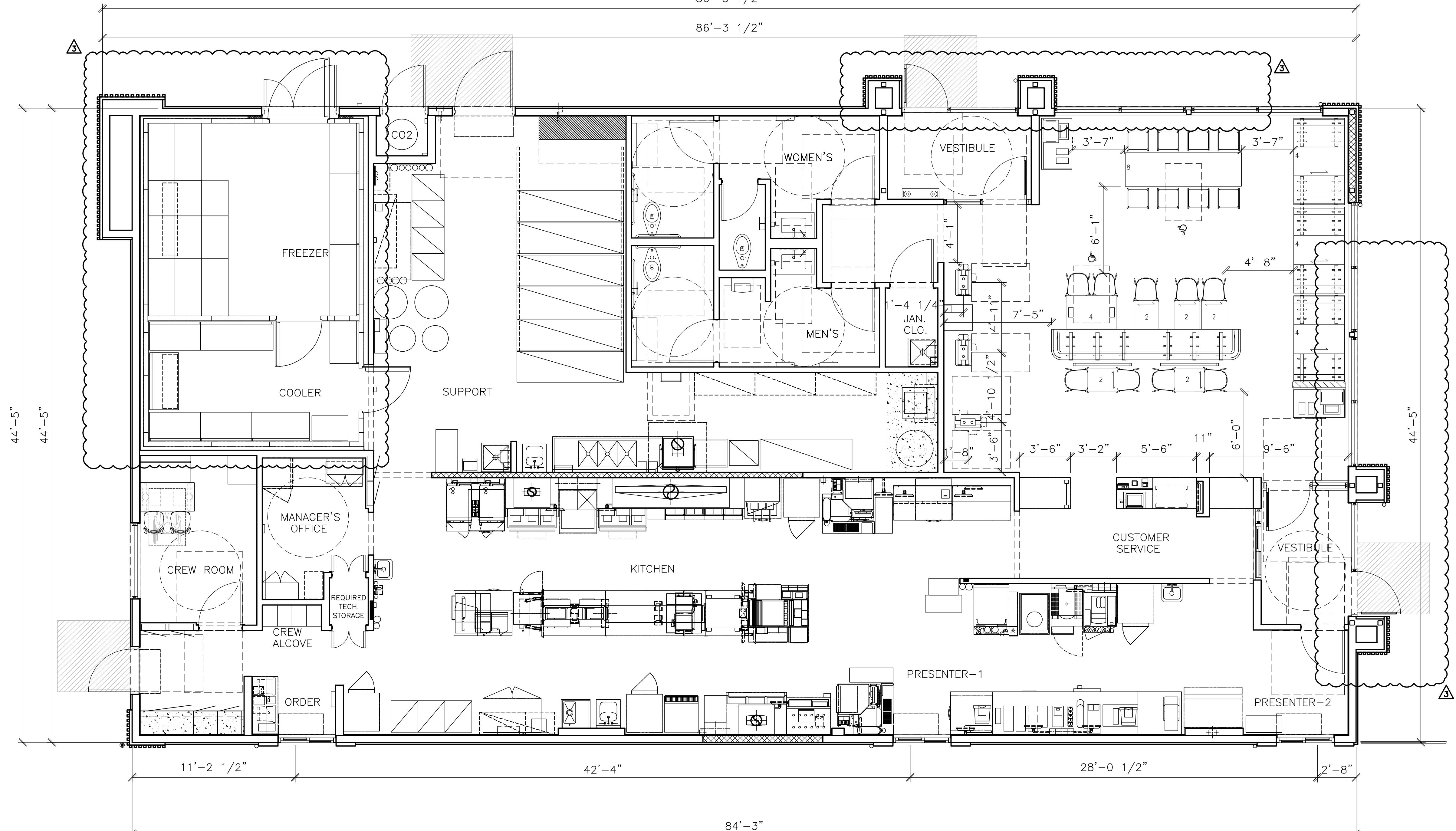
1
R1.2 $1/4'' = 1'-0''$

OCCUPANCY ALLOWANCE:

2015 INTERNATIONAL BUILDING CODE

MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT			
FUNCTION OF SPACE	ALLOWANCE	AREA	OCCUPANTS
ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300 GROSS	570 SF	2
ASSEMBLY WITH FIXED SEATS	SEE PLAN	—	34
ASSEMBLY W/OUT FIXED SEATS STANDING SPACE	5 NET	195 SF	39
BUSINESS AREAS	100 GROSS	64 SF	1
KITCHENS, COMMERCIAL	200 GROSS	1,215	7
TOTAL OCCUPANCY ALLOWANCE			83

SHEET NO.	2024 STANDARD BUILDING – BB20		
	JAW	STD ISSUE DATE	2024
DESCRIPTION	WOOD BEARING WALLS WITH HARDIE SIDING WOOD ROOF TRUSS FRAMING EIFS/BATTEN/METAL/HARDIE SIDING EXTERIOR FINISHES		
SITE ID	042-3548 13620 E US 290 HWY WB, MANOR TEXAS		
PREPARED FOR:		McDonald's USA, LLC	
		 JAW A R C H I T E C T S	
		REGISTERED ARCHITECT JEREMY WILLIAMS STATE OF TEXAS 1926	
		Phone: 817-705-3387 Email: jeremy@jaw-arch.com	
		REV DATE <hr/>	
		DESCRIPTION	
		BY	



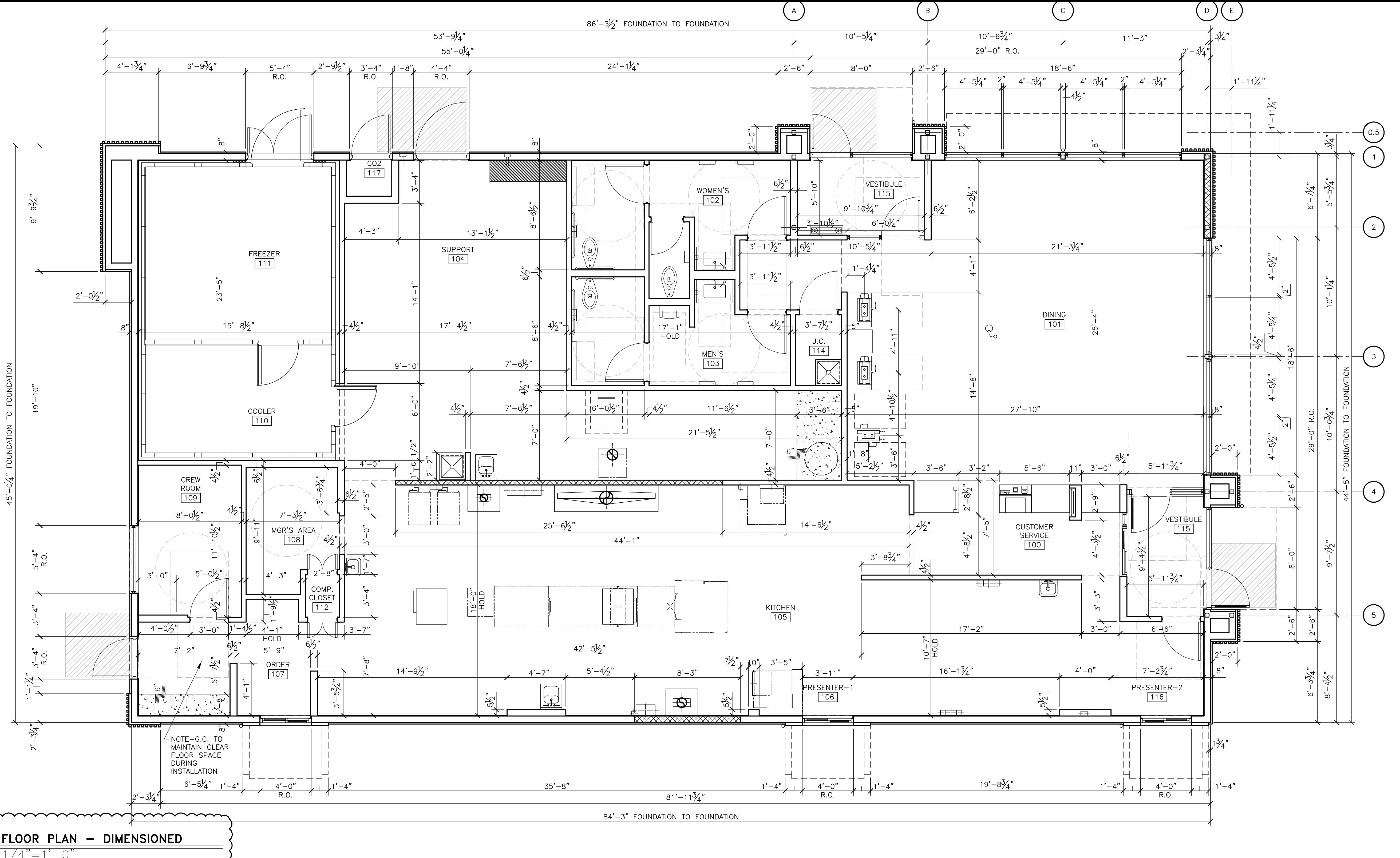
FLOOR PLAN
R1.3

4584 - WW PLAN
3,826 GROSS SQ. FT. / 3,614 NET SQ. FT.
34 SEATS (2 ACCESSIBLE SEATS)

THIS DRAWING IS
FOR REFERENCE ONLY
NOT FOR CONSTRUCTION
SEATING LAYOUT IS SCHEMATIC, THE FINAL
SEATING LAYOUT TO BE PROVIDED BY OTHERS.

PREPARED BY:		@2024 McDonald's USA, LLC	
JAW		McDonald's USA, LLC	
DRAWN BY: JAW		STD ISSUE DATE: 2024	PREPARED FOR: McDonald's USA, LLC
REVIEWED BY: JAW		DATE ISSUED: 07/19/2024	These drawings and specifications are the confidential and proprietary property of McDonald's USA, LLC and shall not be copied or reproduced without authorization. The original documents were prepared in the United States of America. These drawings and specifications were prepared for construction purposes only. They are not suitable for use on a different site or at a later time. Use of these drawings for reference or example on another project requires the services of properly licensed architects and engineers. Reproduction of the contract documents for reuse on another project is not authorized.
SHEET NO. 1		2	ELEVATIONS REDRAWN & PROTO UPDATE
TITLE 2024 STANDARD BUILDING - BB20		3	SQUARED OFF BACK & ADDED V/H ARCTICULATIONS & UPDATED ADDRESS
DESCRIPTION 4584-WOOD/WOOD		4	Phone 817-705-3387 Email: jenny.williams@jaw.com
SITE ID R1.3		5	REGISTERED ARCHITECT JANET WILLIAMS, RA FEB 26 JAW Architects, Inc. Jenny Williams, Architect
		REV. DATE	DESCRIPTION

R1.3
SEATING PLAN
042-3548
JAWA 24-0107



FLOOR PLAN - DIMENSIONED

$$\text{A1.0} \quad 1/4'' = 1' - 0'$$

KEY NOTES

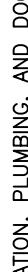
- C ALUMINUM CANOPY SYSTEM ABOVE – SEE 4/A5.0 FOR NOTES – SEE ROOF PLAN FOR DIMENSIONS, SEE ELEVATION FOR COLORS
 - CG G.C. TO PROVIDE 4"x4"x5'-0" HIGH STAINLESS STEEL CORNER GUARDS AT ALL EXPOSED LOCATIONS IN KITCHEN/SUPPORT AREA. CORNER GUARDS TO START AT FINISH FLOOR. ATTACH WITH WOOD SCREWS INTO WOOD BLOCKING BULLNOSE COVE BASE WHERE TILE MEETS STAINLESS STEEL CORNER
 - CP CONCRETE EQMT PAD – SEE STRUCTURAL
 - CT WALL FINISH: PER DECOR PORTFOLIO
A SEE A3.1 AND A6.1 FOR FINISH INFORMATION
 - CT WALL TILE: CROSSVILLE – COLOR BY NUMBERS
B COLOR: AFTERNOON SPRAY, SIZE: 4"x12", PATTERN: STACKED BOND
GROUT: MAPEI 02 PEWTER – JOINT TO BE $\frac{1}{6}$ " 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
 - D# DECOR PORTFOLIO SPECIFIC ELEMENT – SEE FINISH SCHEDULE.

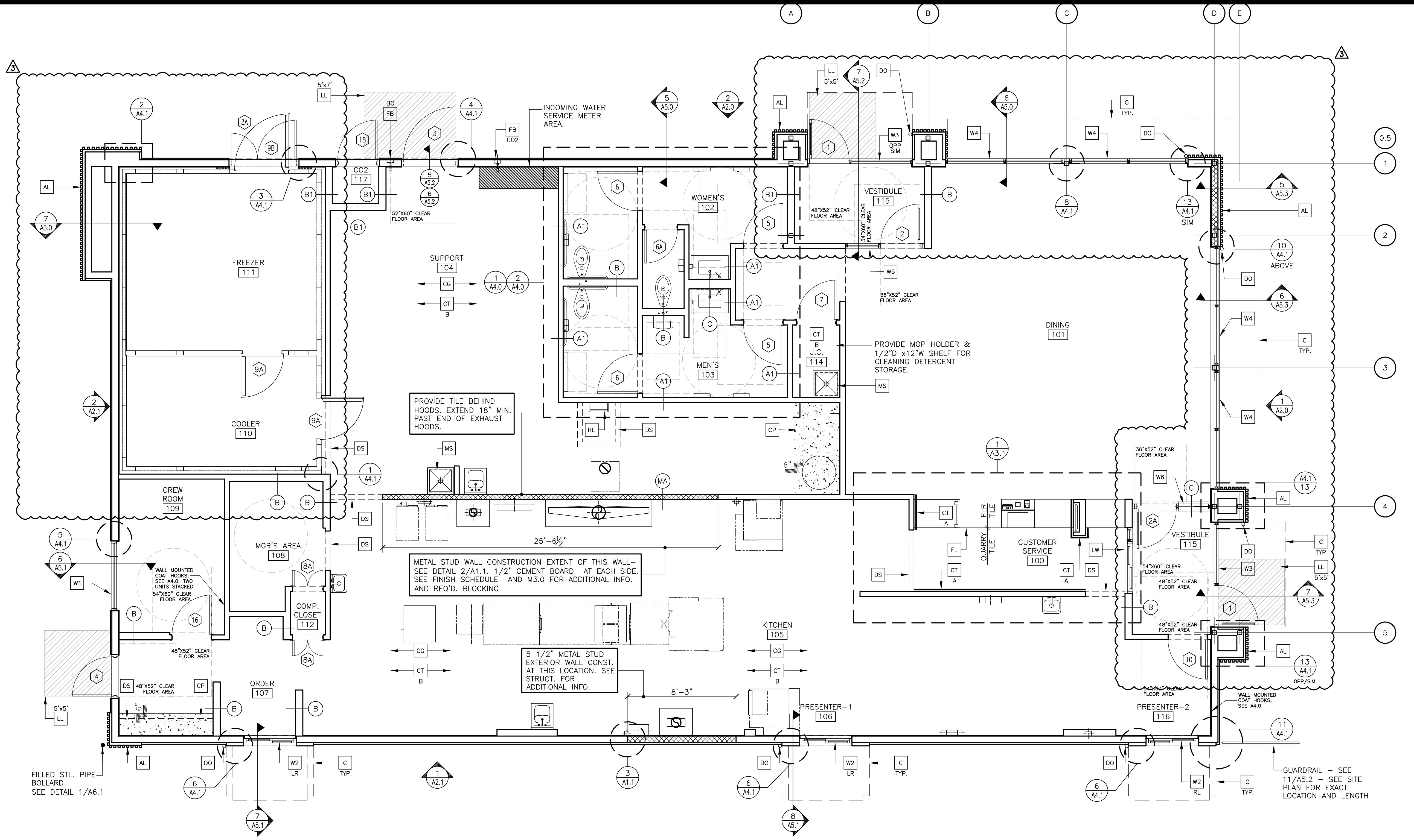
SYMBOL LEGEND

- A PARTITION TYPE TAG SEE 2/A1.1 X KEY NOTE
7 DOOR TAG SEE DOOR SCHEDULE ON A6.0 DRAFT STOP

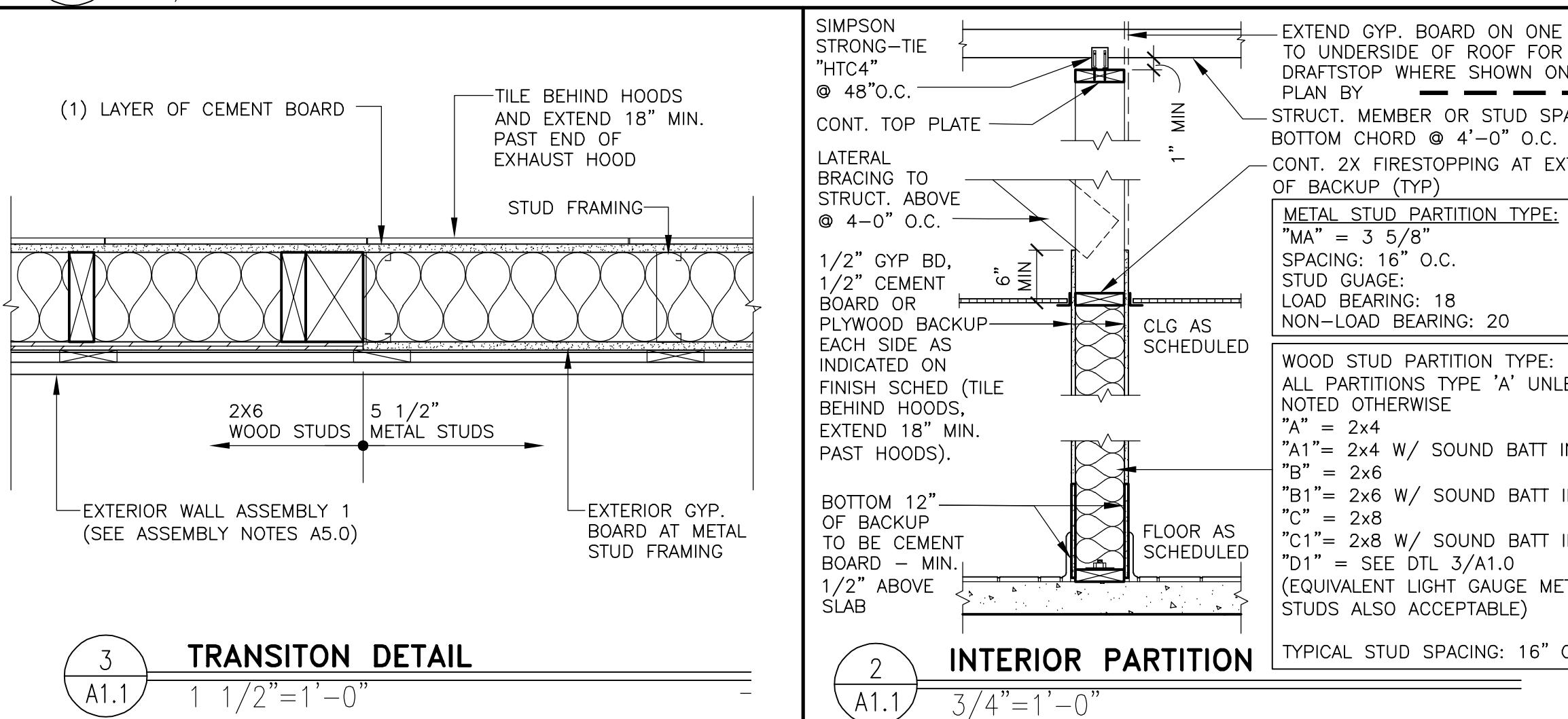
GENERAL NOTES

- 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.

SHEET NO.	2024 STANDARD BUILDING – BB20		
	JAWA	24-0107	FLOOR PLAN
DESCRIPTION	WOOD BEARING WALLS WITH HARDIE SIDING WOOD ROOF TRUSS FRAMING EIFS/BATTEN/METAL/HARDIE SIDING EXTERIOR FINISHES		
SITE ID	042-3548	SITE ADDRESS	13620 E US 290 HWY WB, MANOR TEXAS
DRAWN BY	JAW	STD ISSUE DATE	2024
REVIEWED BY	JAW	DATE ISSUED	07/19/2024
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JAW Architects, Inc. Jeremy Williams, Architect Phone: 817-705-3387 Email: jeremy@jaw-arch.com			
		PREPARED BY:	
			
			
		BY	DESCRIPTION



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



KEY NOTES

- (1) LAYER OF CEMENT BOARD
- TILE BEHIND HOODS AND EXTEND 18" MIN. PAST END OF EXHAUST HOOD
- STUD FRAMING
- SIMPSON STRONG-TIE "HTC4" @ 48" O.C.
- EXTEND GYP. BOARD ON ONE SIDE TO UNDERSIDE OF ROOF FOR DRAFTSTOP WHERE SHOWN ON A1.2 PLAN BY
- CONT. TOP PLATE
- LATERAL BRACING TO STRUCT. ABOVE @ 4'-0" O.C.
- STRUCT. MEMBER OR STUD SPANNING BOTTOM CHORD @ 4'-0" O.C.
- 1/2" GYP. BD, 1/2" CEMENT BOARD OR PLYWOOD BACKUP EACH SIDE AS INDICATED ON FINISH SCHED (TILE BEHIND HOODS, EXTEND 18" MIN. PAST HOODS).
- METAL STUD PARTITION TYPE: "MA" = 3 5/8" SPACING: 16" O.C. STUD GUAGE: LOAD BEARING: 18 NON-LOAD BEARING: 20
- WOOD STUD PARTITION TYPE: ALL PARTITIONS TYPE 'A' UNLESS NOTED OTHERWISE
- "A" = 2x4
- "A1" = 2x4 W/ SOUND BATT INS.
- "B" = 2x6
- "B1" = 2x6 W/ SOUND BATT INS.
- "C" = 2x8
- "C1" = 2x8 W/ SOUND BATT INS.
- "D" = SEE DETL 3/A1.0 (EQUIVALENT LIGHT GAUGE METAL STUDS ALSO ACCEPTABLE)
- TYPICAL STUD SPACING: 16" O.C.

INTERIOR PARTITION
A1.1
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
- 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 WALL FINISH: PER DECOR PORTFOLIO SEE A3.1 AND A6.1 FOR FINISH INFORMATION
- FP FIBERGLASS REINFORCED PLASTIC (FRP) - PANOLAM, GRAY SMOOTH, CLASS A, .075. REFER TO ROOM FINISH SCHEDULE SHEET A6.0 FOR INSTALLATION LOCATIONS. FOR ORDERING, CONTACT KIMBERLY LAWSON Kimberly_Lawson@panolam.com 1-866-925-4377
- LL LEVEL LANDING @ EXT. DOOR W/ MAX. 2% RUNNING/CROSS SLOPE 5'5"
- SIZE OF LANDING
- LW LATE-NIGHT WINDOW (OPTIONAL) BY READYACCESS, MANUAL OPEN/SELF CLOSE. SEE SHEET A3.1 FOR NOTES.
- DO DOWNSPOUT CONNECTED TO CANOPY SYSTEM. SEE ELEVATIONS. COORDINATE CONNECTION WITH CIVIL.
- DS DROPPED SOFFIT ABOVE - SEE REFLECTED CEILING PLAN
- D# DECOR PORTFOLIO SPECIFIC ELEMENT - SEE FINISH SCHEDULE.

SYMBOL LEGEND

	PARTITION TYPE TAG SEE 2/A1.1		KEY NOTE
	DOOR TAG - SEE DOOR SCHEDULE ON A6.0		DRAFT STOPPING SEE 2/A1.2

GENERAL NOTES

- EXTERIOR DIMENSIONS ARE TO COLUMN REFERENCE LINES AND EXTERIOR FACE OF MASONRY UNLESS OTHERWISE NOTED. INTERIOR DIMENSIONS ARE TO FACE OF INTERIOR WALL BOARD.
- 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.
- SEE EXTERIOR ELEVATIONS FOR WINDOW TYPES
- SEE SHEET A6.0 FOR DOOR AND ROOM FINISH SCHEDULES
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PREPARED BY:		DESCRIPTION	
JAW	09/20/24	MCD OC COMMENTS & FOUNDATION, PLUMBING, AND DOOR UPDATES	ELEVATIONS REDRAWN & PROTO UPDATE
JAW	12/20/24	SQUARED OFF BACK & ADDED V/H ARTICULATIONS & UPDATED ADDRESS	
JAW	07/24/25		
JAW	07/24/25		
REV.	DATE	REV.	DATE

REGISTERED ARCHITECT
JAMES WILLIAMS, RA
State of Texas
FEB 26
Phone 817-705-3387
Email: James@jwarchitect.com

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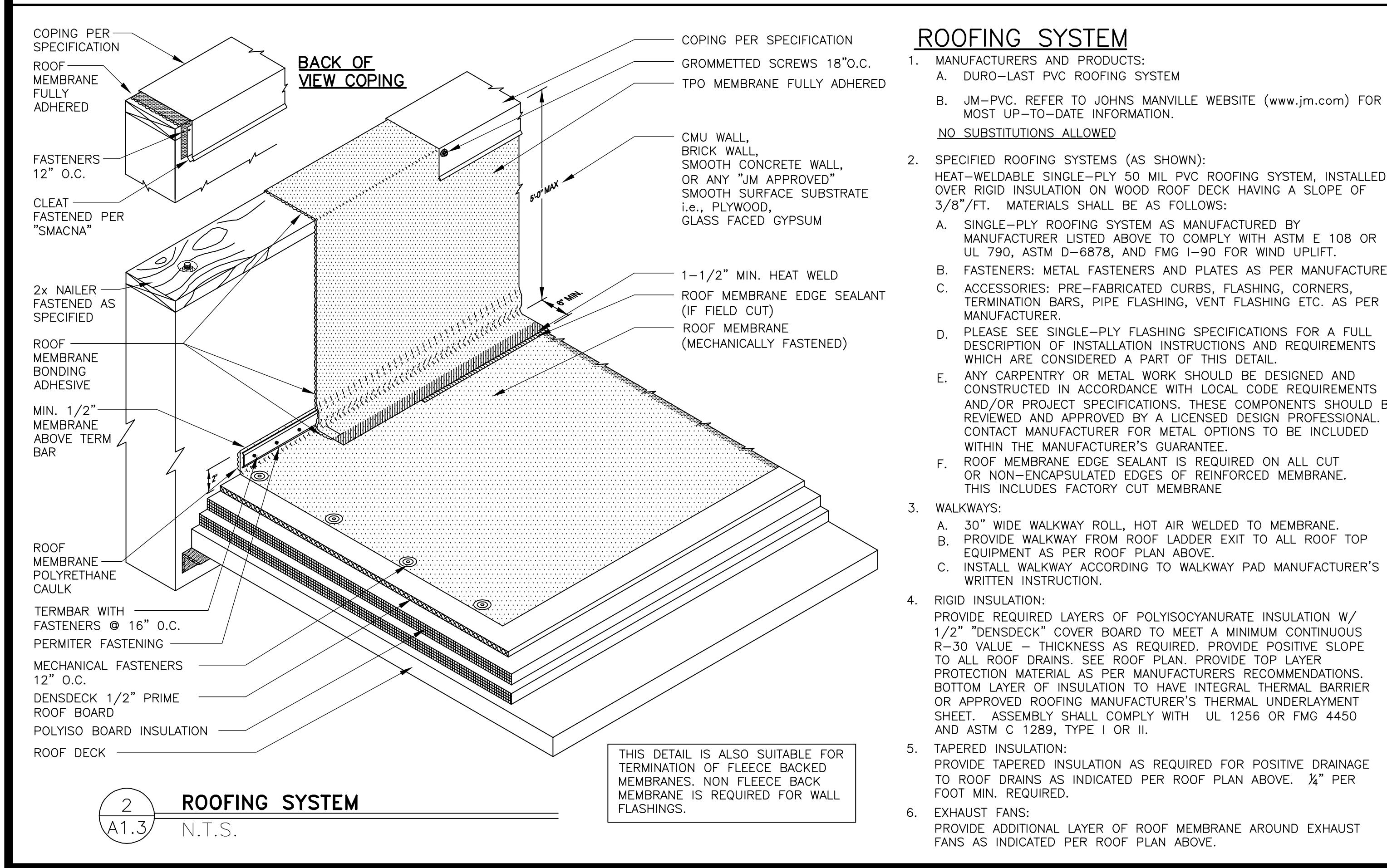
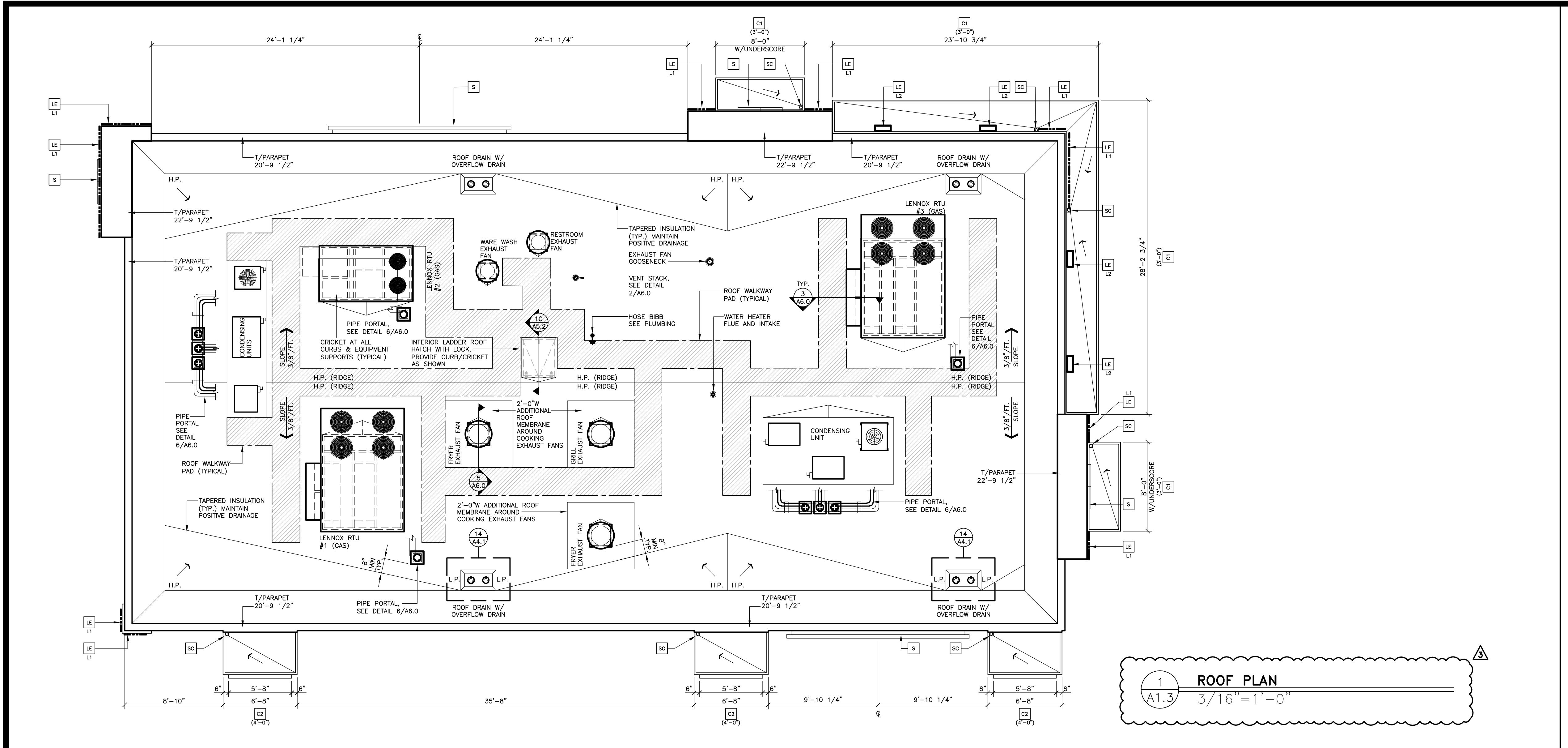
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STD ISSUE DATE:
2024

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JAW

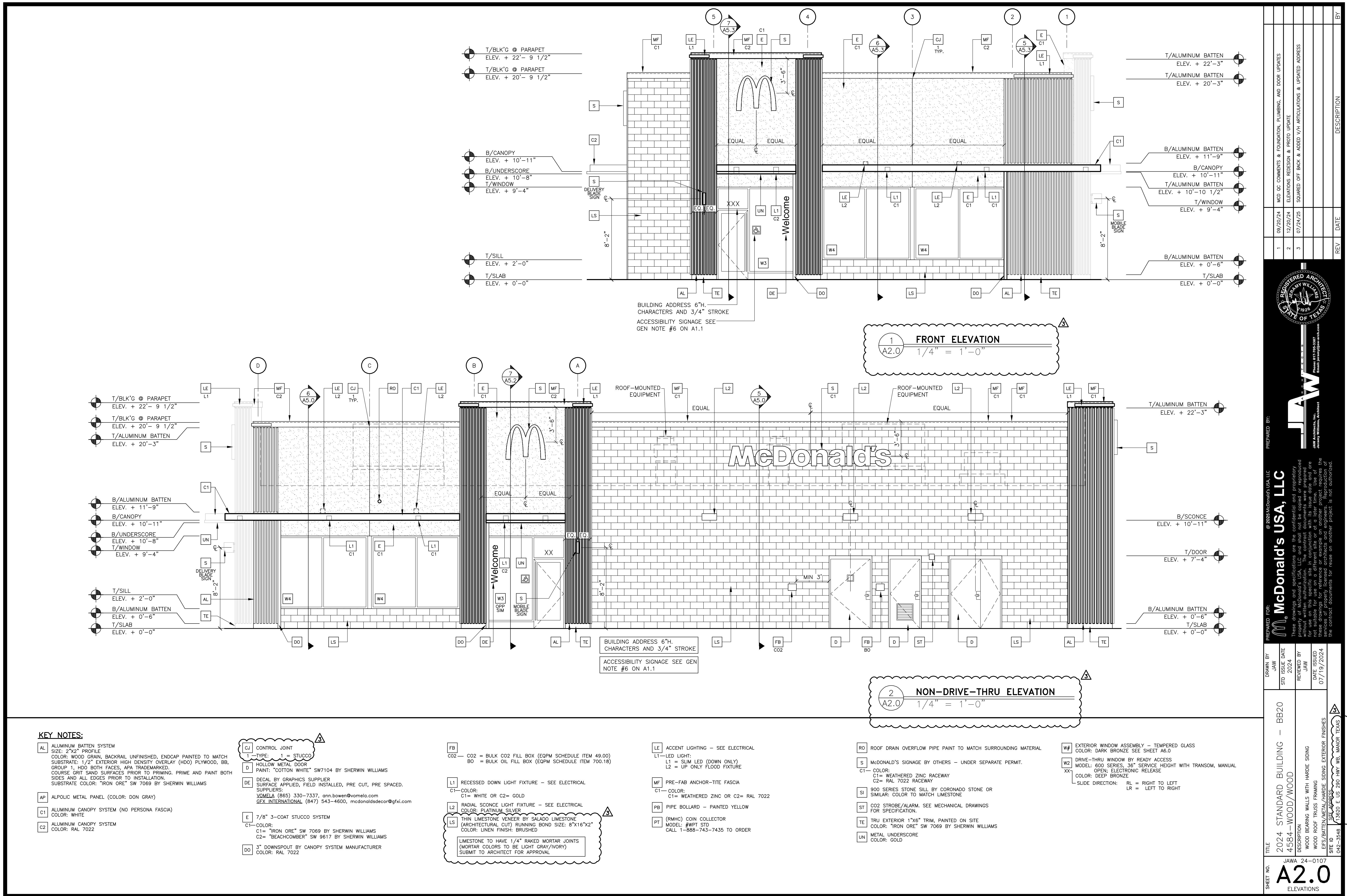
DATE ISSUED:
07/19/2024

SHEET NO. A1.1 **TITLE** 2024 STANDARD BUILDING - BB20 **DESCRIPTION** 4584-WOOD/WOOD
WOOD BEARING WALLS WITH HARDE SIDING
WOOD/BATEN/METAL/HARDE SIDING EXTERIOR FINISHES
SITE ID 042-3548
JAWA 24-0107
A1.1 FLOOR PLAN

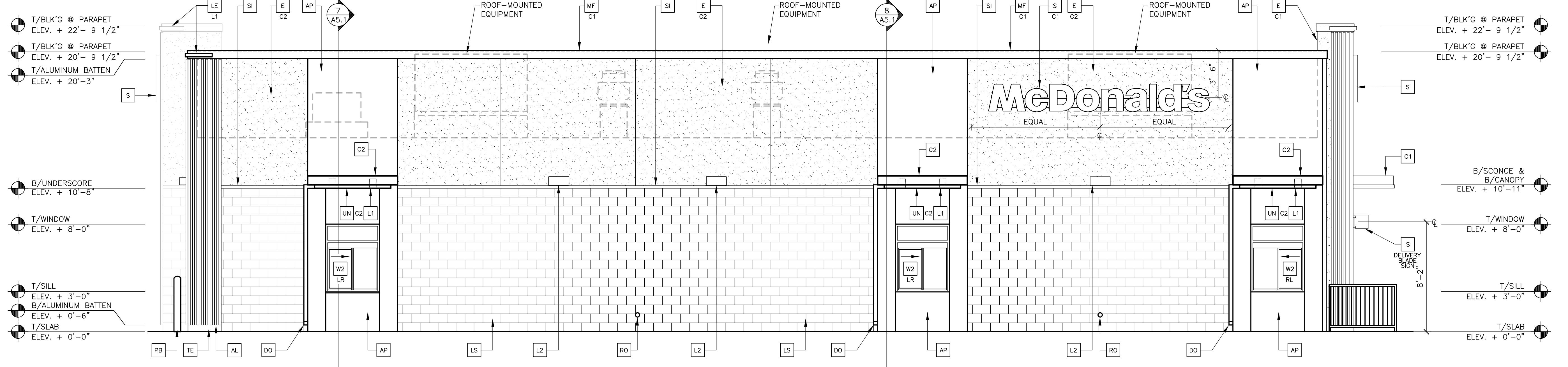


SHEET NO.	TITLE	DRAWN BY	STD ISSUE DATE
A1.3	2024 STANDARD BUILDING - BB20 4584 - WOOD/WOOD	JAW	2024
	DESCRIPTION	REVIEWED BY	DATE ISSUED
	WOOD BEARING WALLS WITH HARDIE SIDING WOOD ROOF TRUSSES FRAMING EIPS/BATTEN/METAL/HARDIE SIDING EXTERIOR FINISHES	JAW	07/19/2024
	SITE ID	JAW 24-0107	
		042-3548	

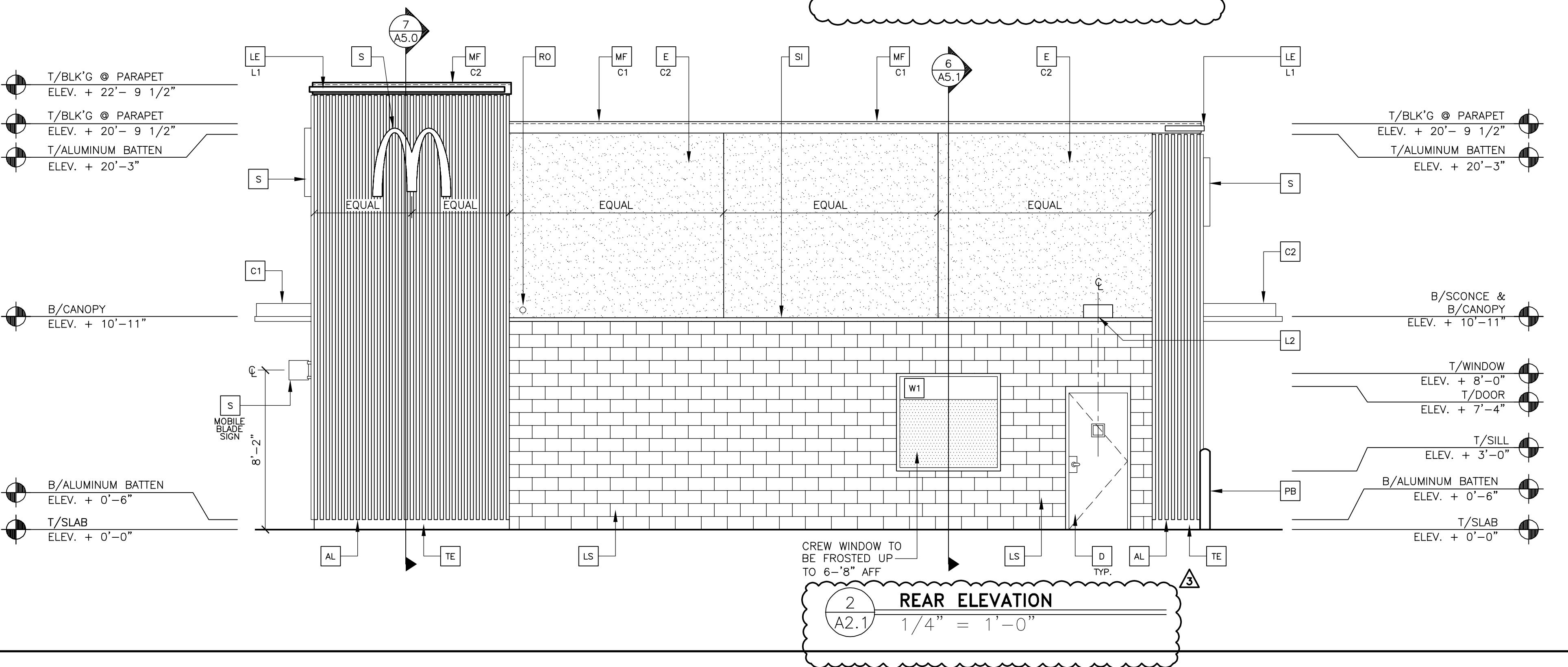
REGISTERED ARCHITECT STATE OF TEXAS
J.W. Williams, AIA, LEED AP
Phone: 817-705-3387
Email: jw@jwarchitects.com







1 A2.1 DRIVE THRU ELEVATION
1/4" = 1'-0"



2 A2.1 REAR ELEVATION
1/4" = 1'-0"

KEY NOTES:

AL ALUMINUM BATTEN SYSTEM
SIZE: 2" X 6" PRE-PAINTED
COLOR: "IRON ORE" SW 7069, BACKRAIL UNFINISHED, ENDCAP PAINTED TO MATCH
SUBSTRATE: 1/2" EXTERIOR HIGH DENSITY OVERLAY (HDO) PLYWOOD, BB,
GROUP 1, HDO BOTH FACES, APA TRADEMARKED.
COURSE GRIT SAND SURFACES PRIOR TO PRIMING, PRIME AND PAINT BOTH
SIDES AND ALL EDGES PRIOR TO INSTALLATION.
SUBSTRATE COLOR: "IRON ORE" SW 7069 BY SHERWIN WILLIAMS

AP ALPOLIC METAL PANEL (COLOR: DON GRAY)

C1 ALUMINUM CANOPY SYSTEM (NO PERSONA FASCIA)
COLOR: WHITE

C2 ALUMINUM CANOPY SYSTEM
COLOR: RAL 7022

CJ CONTROL JOINT
1 TYPE: 1 STUCCO

D HOLLOW METAL DOOR
PAINT: "COTTON WHITE" SW7104 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

E 7/8" 3-COAT STUCCO SYSTEM

C1 COLOR:
C1= "IRON ORE" SW 7069 BY SHERWIN WILLIAMS
C2= "BEACHCOMBER" SW 9617 BY SHERWIN WILLIAMS

DO 3" DOWNSPOUT BY CANOPY SYSTEM MANUFACTURER
COLOR: RAL 7022

FB CO2— CO2 = BULK CO2 FILL BOX (EQPM SCHEDULE ITEM 49.00)
BO = BULK OIL FILL BOX (EQPM SCHEDULE ITEM 700.18)

L1 RECESSED DOWN LIGHT FIXTURE - SEE ELECTRICAL
C1= COLOR:
C1= WHITE OR C2= GOLD

L2 RADIAL SCONCE LIGHT FIXTURE - SEE ELECTRICAL

LS THIN LIMESTONE VENEER BY SALADO LIMESTONE

(ARCHITECTURAL CUT) RUNNING BOND SIZE: 8"x16"x2"

COLOR: LINEN FINISH, BRUSHED
LIMESTONE TO HAVE 1/4" RAKED MORTAR JOINTS
(MORTAR COLORS TO BE LIGHT GRAY/IVORY)
SUBMIT TO ARCHITECT FOR APPROVAL

LE ACCENT LIGHTING - SEE ELECTRICAL
L1= LED LIGHT:
L1 = SLIM LED (DOWN ONLY)
L2 = UP ONLY FLOOD FIXTURE

MF PRE-FAB ANCHOR-TITE FASCIA
C1= COLOR:
C1= WEATHERED ZINC OR 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

SI 900 SERIES STONE SILL BY CORONADO STONE OR
SIMILAR: COLOR TO MATCH LIMESTONE

ST CO2 STROBE/ALARM SEE MECHANICAL DRAWINGS
FOR SPECIFICATION.

TE TRU EXTERIOR 1"X6" TRIM, PAINTED ON SITE
COLOR: "IRON ORE" SW 7069 BY SHERWIN WILLIAMS

UN METAL underscore
COLOR: GOLD

W# EXTERIOR WINDOW ASSEMBLY - TEMPERED GLASS
COLOR: DARK BRONZE SEE SHEET A6.0

W2 DRIVE-THRU WINDOW BY READY ACCESS
MODEL: 600 SERIES, 36" SERVICE HEIGHT WITH TRANSOM, MANUAL
XX COLOR: DEEP BRONZE

SLIDE DIRECTION: RL = RIGHT TO LEFT
LR = LEFT TO RIGHT



PREPARED BY:

JAW McDonald's USA, LLC

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JAW

STD ISSUE DATE:

2024

REVIEWED BY:

JAW

DATE ISSUED:

07/19/2024

FILED:

4584

ST

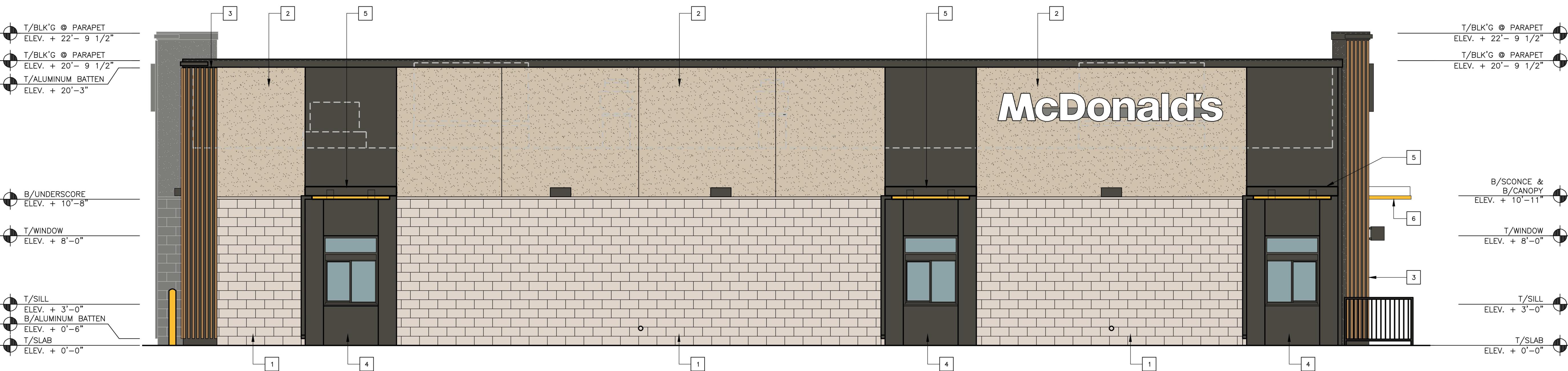
2024 STANDARD BUILDING - BB20

4584-WOOD/WOOD

290 HWY MAJOR TEXAS

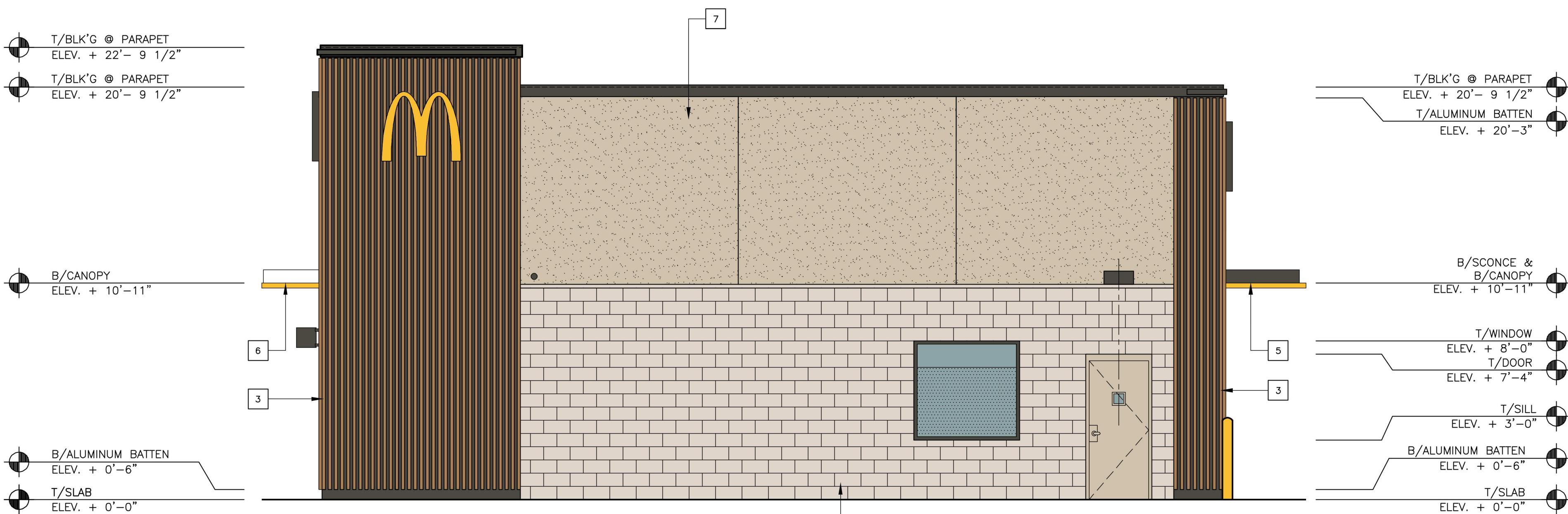
ST

- T/BLK'G @ PARAPET ELEV. + 22'- 9 1/2"
- T/BLK'G @ PARAPET ELEV. + 20'- 9 1/2"
- T/ALUMINUM BATTEEN ELEV. + 20'-3"
- B/UNDERSCORE ELEV. + 10'-8"
- T/WINDOW ELEV. + 8'-0"
- T/SILL ELEV. + 3'-0"
- B/ALUMINUM BATTEEN ELEV. + 0'-6"
- T/SLAB ELEV. + 0'-0"



1 DRIVE THRU ELEVATION
A2.1 1/4" = 1'-0"

- T/BLK'G @ PARAPET ELEV. + 22'- 9 1/2"
- T/BLK'G @ PARAPET ELEV. + 20'- 9 1/2"



2 REAR ELEVATION
A2.1 1/4" = 1'-0"

BUILDING MATERIAL CALCULATIONS BUILDING											
	South Elevation		East Elevation		West Elevation			North Elevation		Totals	
Materials	SF	%	SF	%	SF	%	SF	%	SF	%	
Limestone	160	24.17%	853	62.35%	670	43.62%	306	37.05%	1,989	45.29%	
Stucco	270	40.79%	270	19.74%	504	32.81%	265	32.08%	1,309	29.80%	
Metal Paneling	0	0.00%	0	0.00%	316	20.57%	0	0.00%	316	7.19%	
Wood-Look Battens	232	35.05%	245	17.91%	46	2.99%	255	30.87%	778	17.71%	
Totals (Excluding Glazing)	662	100%	1,368	100%	1,536	100%	826	100%	4,392	100%	
	South Elevation		North Elevation		East Elevation		West Elevation		Totals		
Materials	SF	%	SF	%	SF	%	SF	%	SF	%	
Glazing/Openings	210	24.08%	305	18.23%	62	3.88%	52	5.92%	629	12.53%	
Total Façade	872	24%	1,673	18%	1,598	4%	878	6%	5,021	13%	

1	THIN LIMESTONE VENEER BY SALADO STONE COLOR: LINEN	2	STUCCO COLOR SW 9617 BEACHCOMBER	3	2X2 ALUMINUM WOOD BATTEEN BY FORTINA COLOR EARL WALNUT	4	ACM METAL PANELS BY ALPOLIC COLOR DON GRAY	5	ALUMINUM METAL CANOPY SYSTEM COLOR RAL 7022	6	2X8 ALUMINUM METAL CANOPY SYSTEM COLORS WHITE & MCD YELLOW	7	STUCCO COLOR SW 7069 IRON ORE

SHEET NO.	TITLE	REV.	DATE	DESCRIPTION
1	09/20/24 MCD OC COMMENTS & FOUNDATION, PLUMBING, AND DOOR UPDATES	1	09/20/24	
2	12/20/24 ELEVATIONS REDESIGN & PHOTO UPDATE	2	12/20/24	
3	07/24/25 SQUARED OFF BACK & ADDED V/H ARTICULATIONS & UPDATED ADDRESS	3	07/24/25	

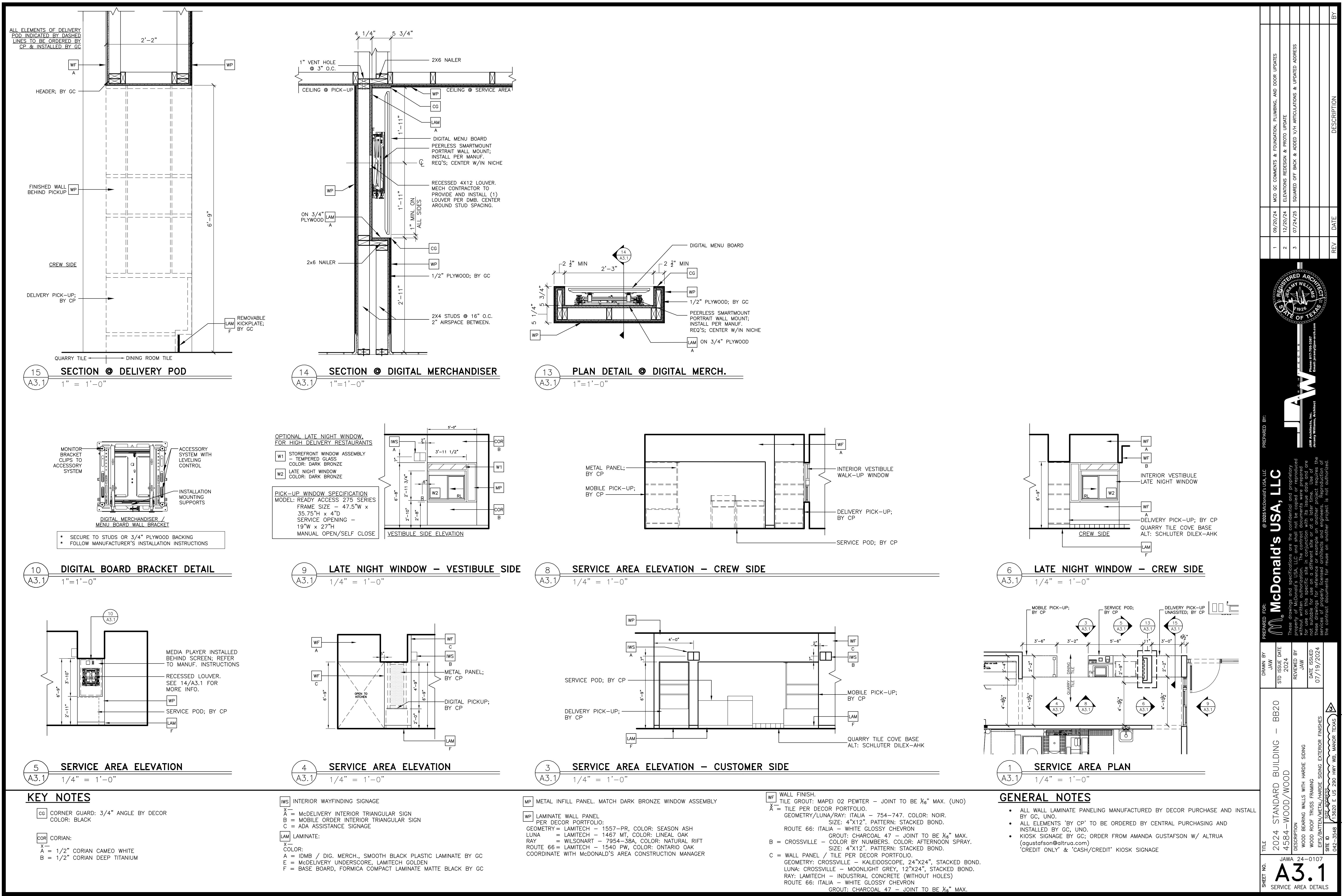


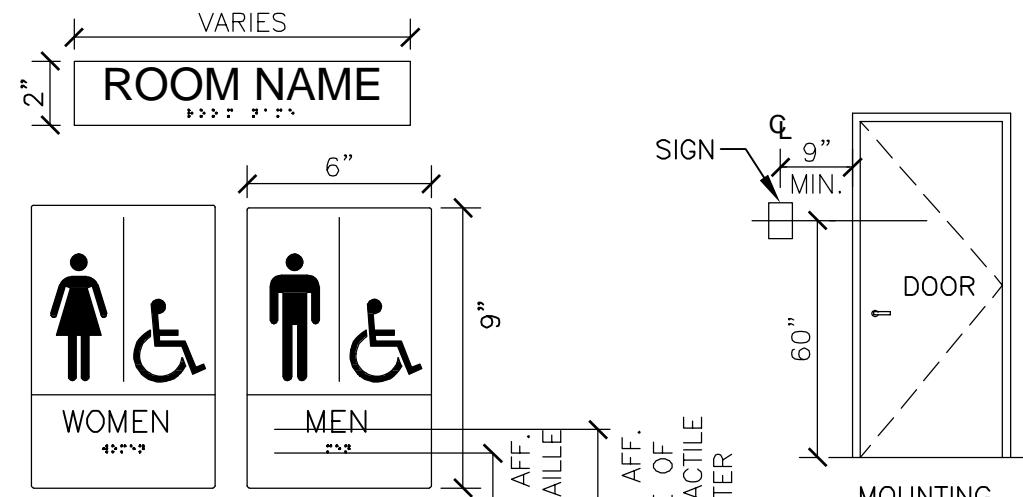
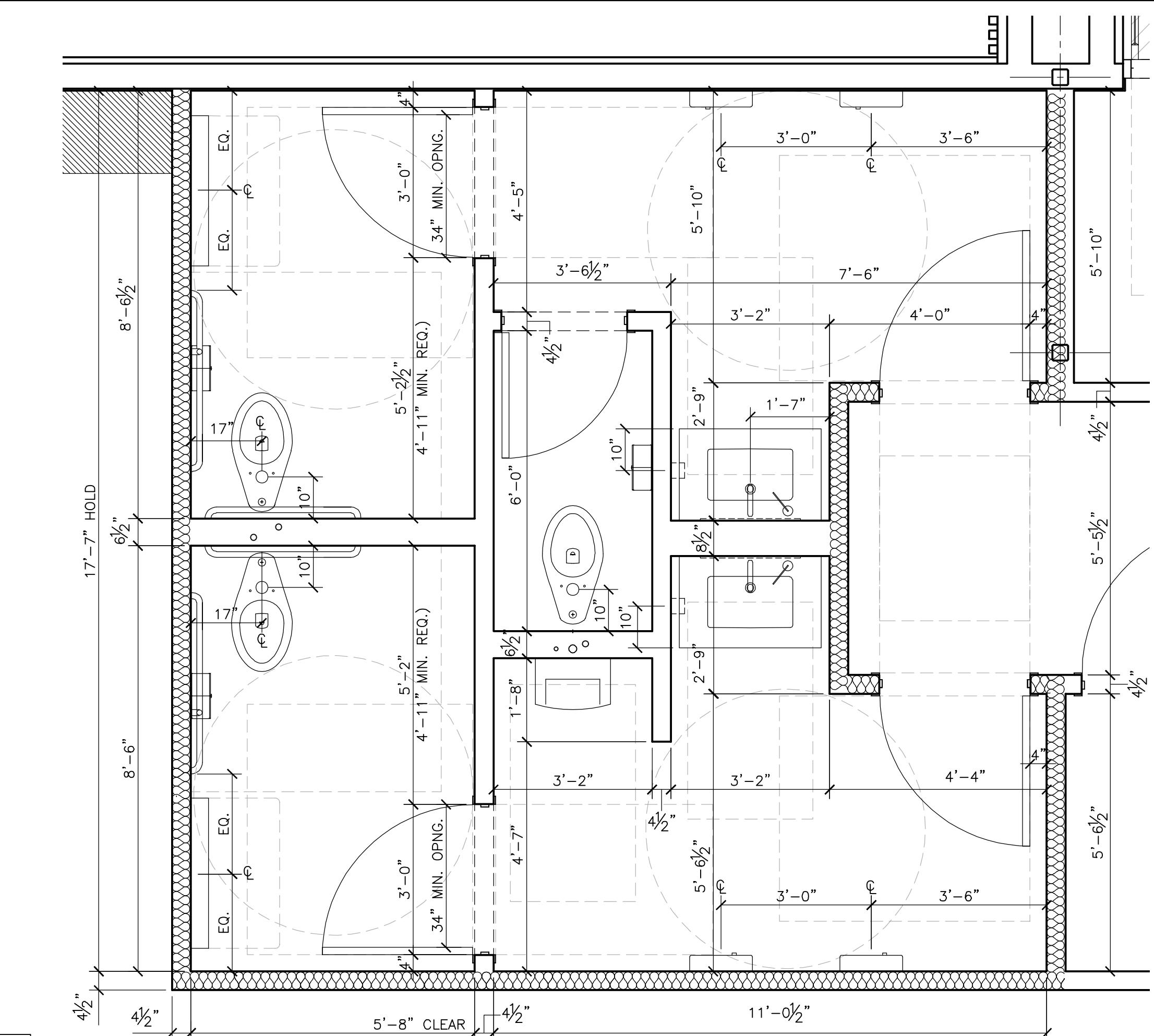
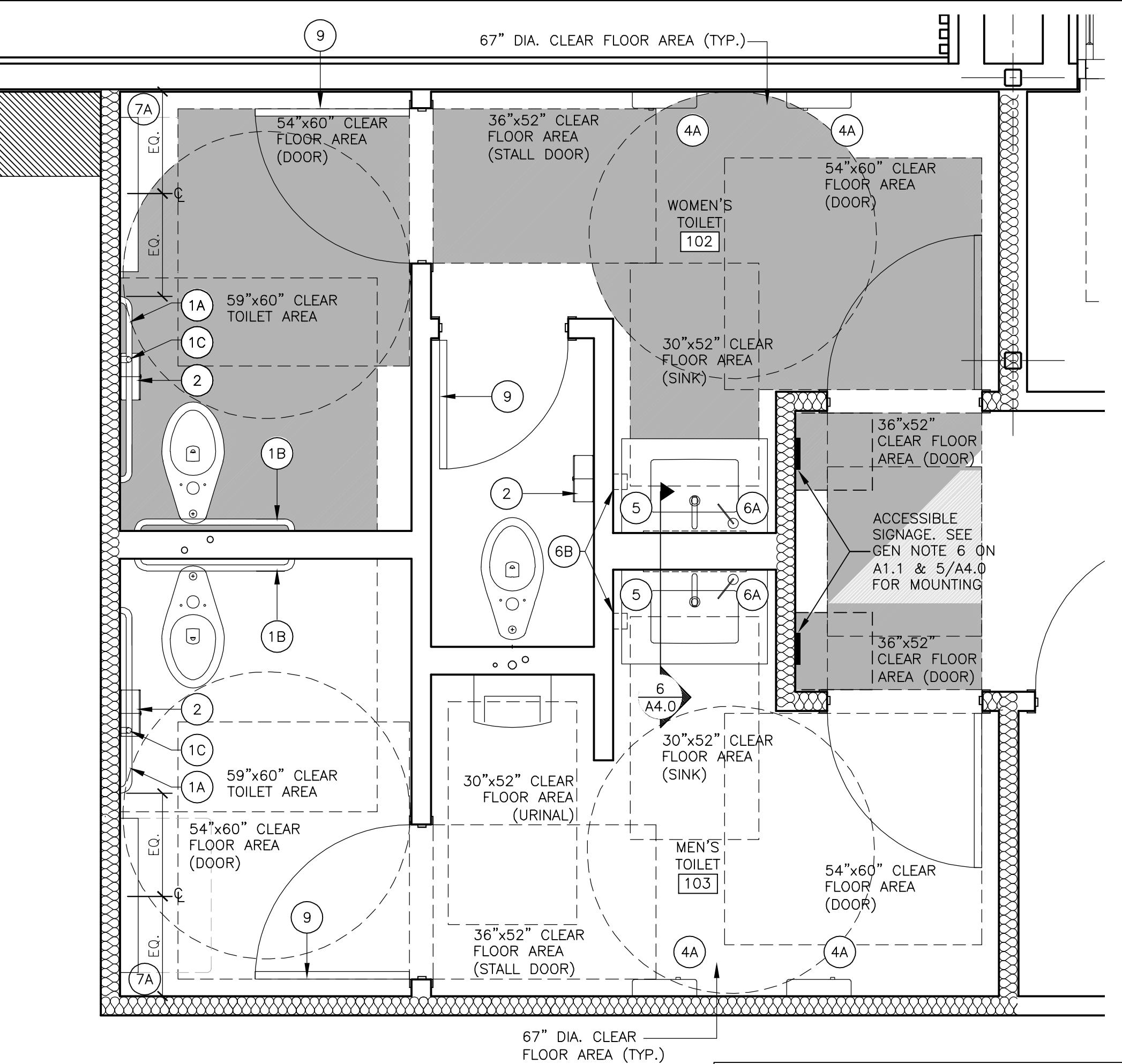
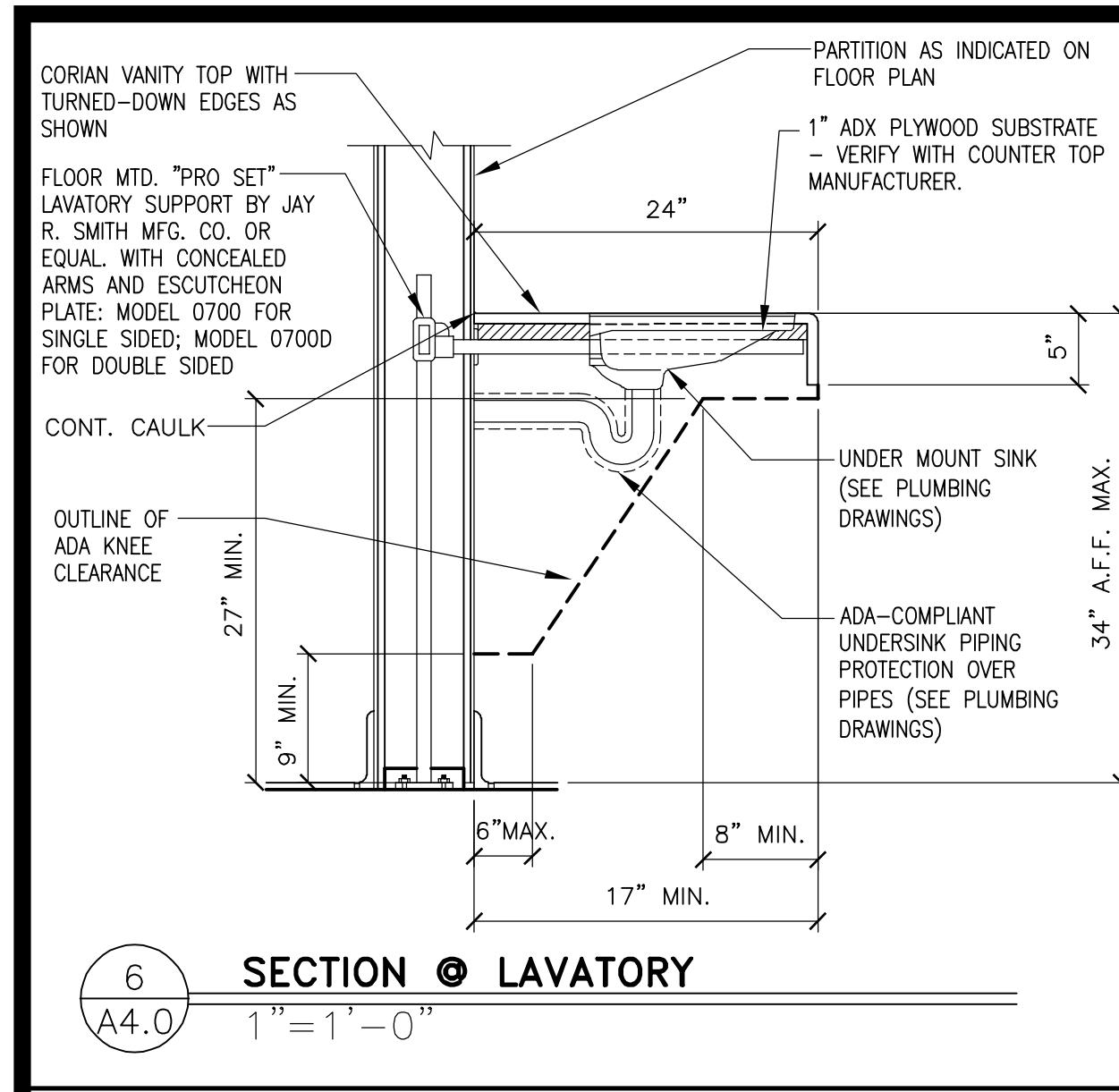
JAW
McDonald's USA, LLC

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STD ISSUE DATE: 2024
REVIEWED BY: JAW
DATE ISSUED: 07/19/2024
DESCRIPTION: 2024 STANDARD BUILDING - BB20
WOOD BEARING WALLS WITH HARDE SIDING
WOOD ROOF TRUSS FRAMING
EIFS/BATTEN/HARDIE SIDING EXTERIOR FINISHES
SITE ID: 13620 E 100 HWY NB MAJOR TEXAS
SHEET NO.: A2.1a
TITLE: ELEVATIONS
JAWA 24-0107





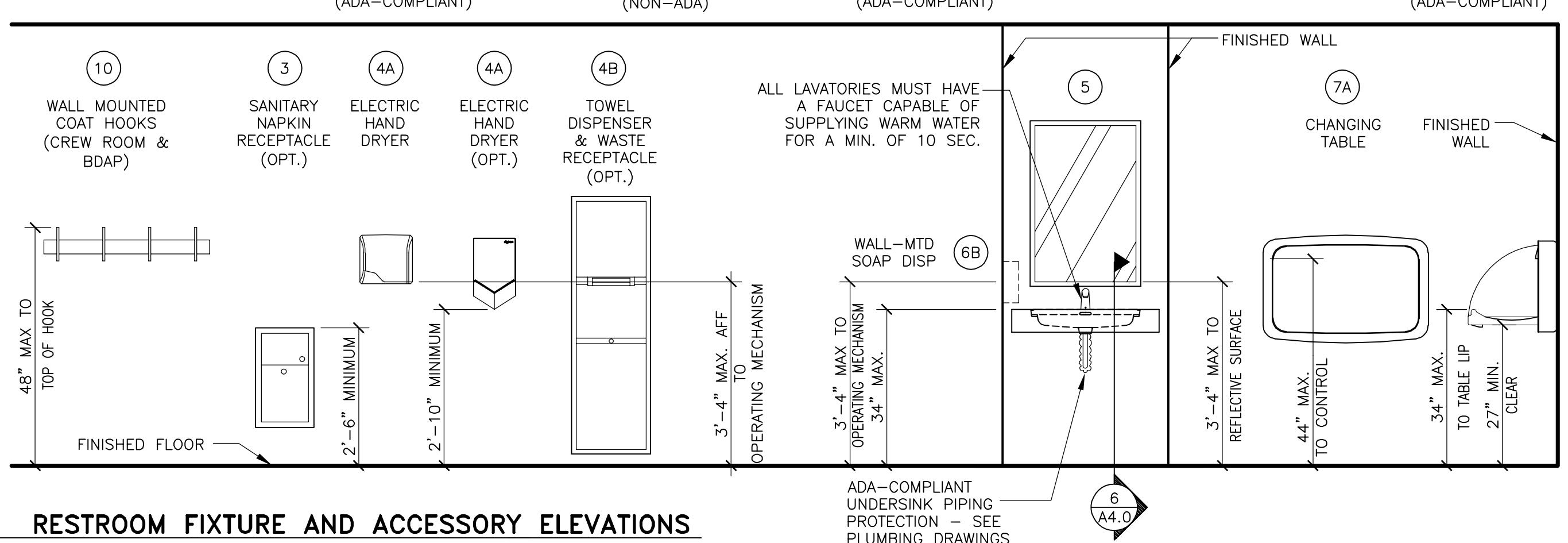
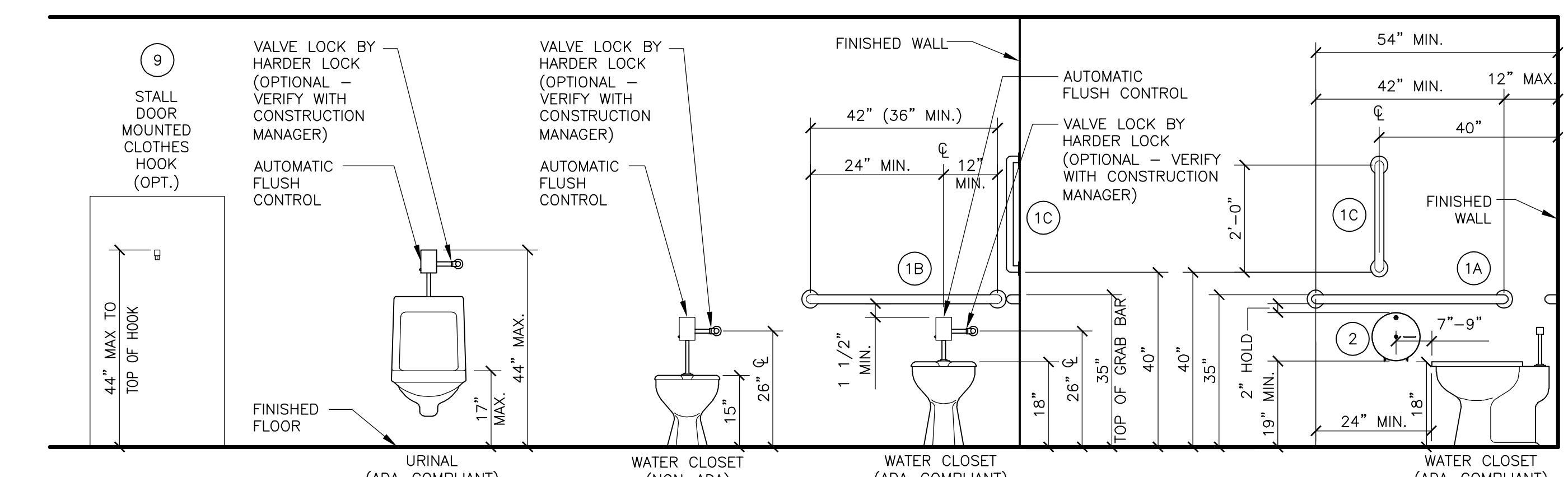
GRAPHICS SHOWN ARE FOR REFERENCE ONLY.

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
1-800-423-5247
www.frankesupply.com
email: fs-frankesupply.us@franke.com

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 ACCCOMPANIED 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.



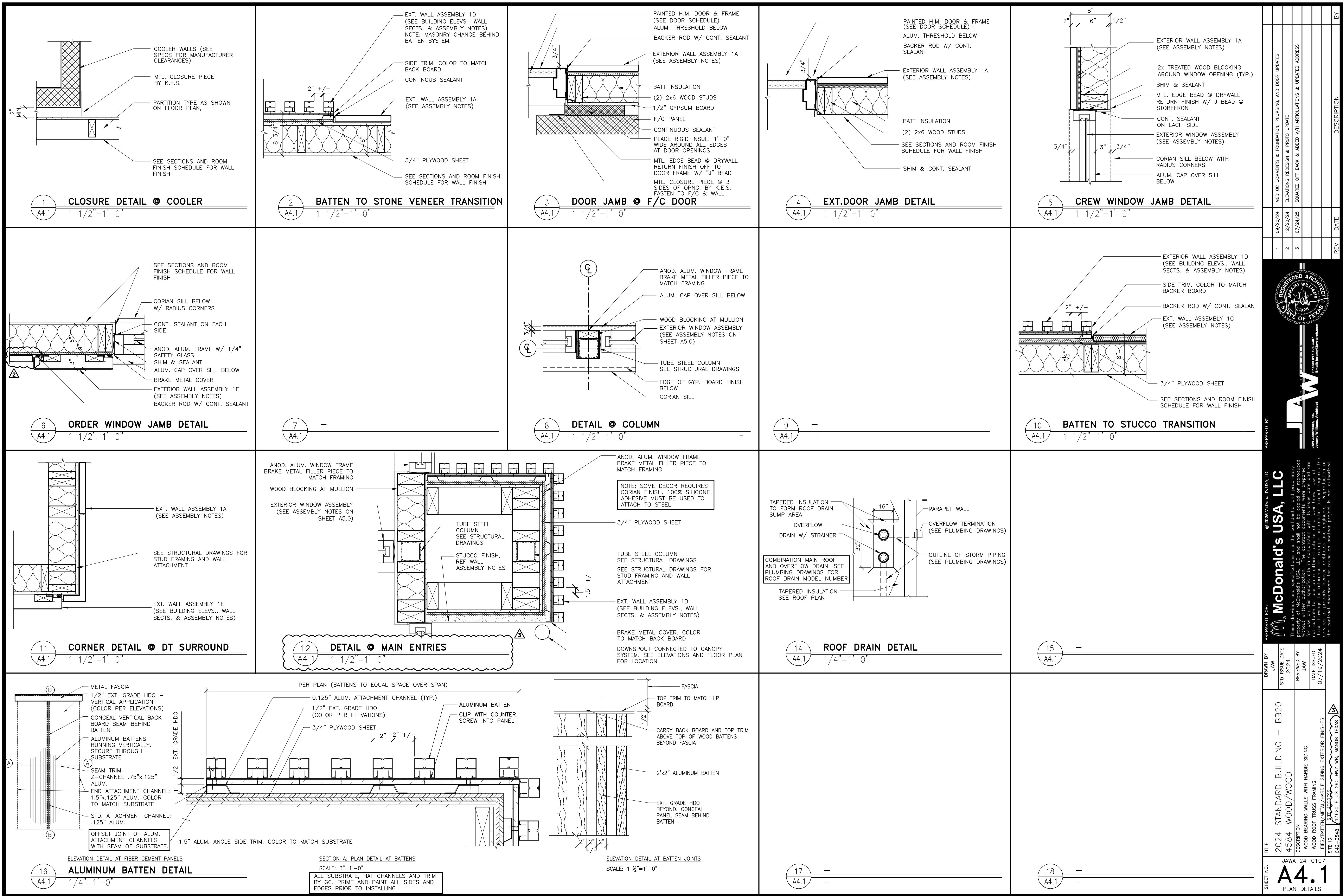
4
A4.0 RESTROOM FIXTURE AND ACCESSORY ELEVATIONS

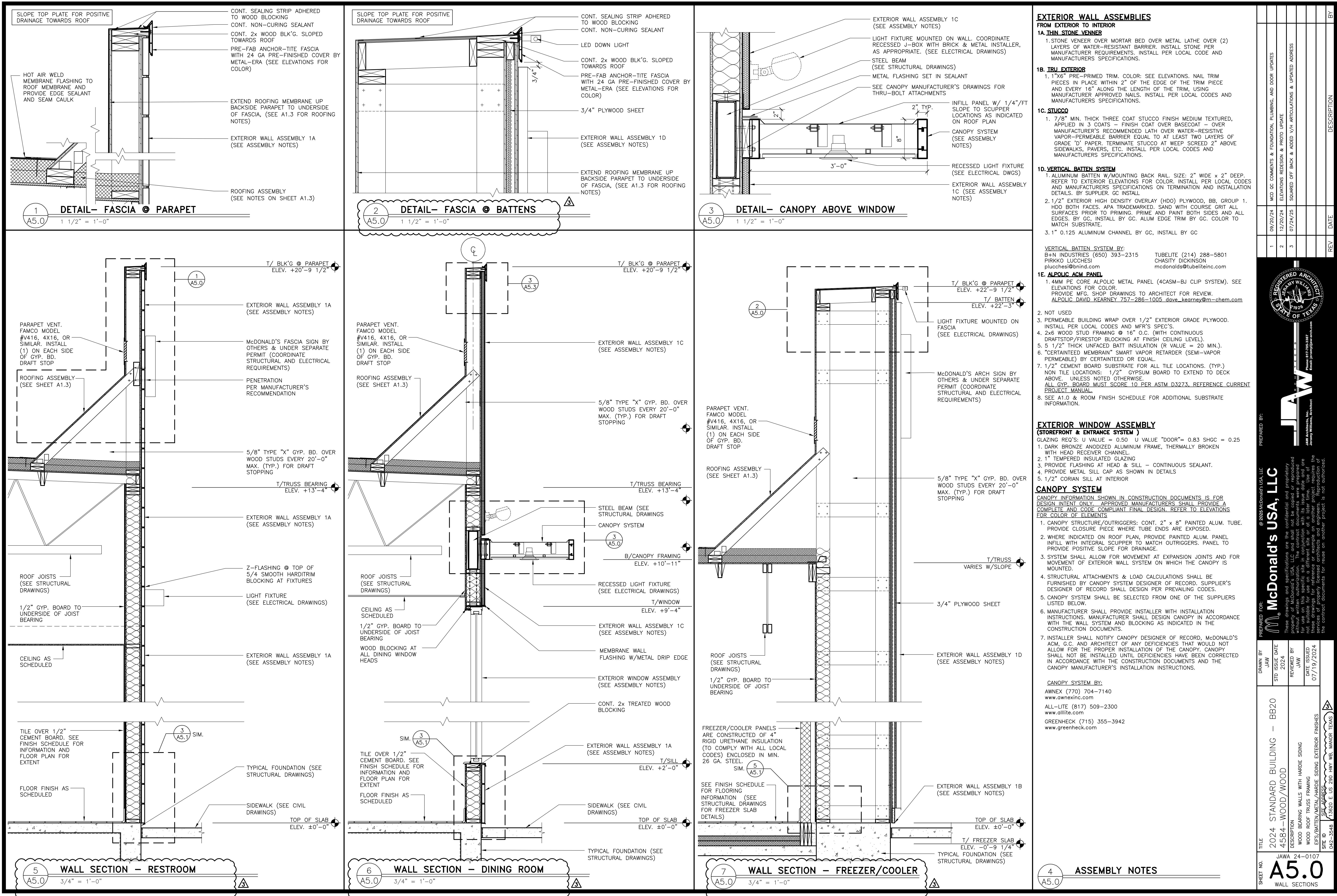
1/2" = 1'-0"

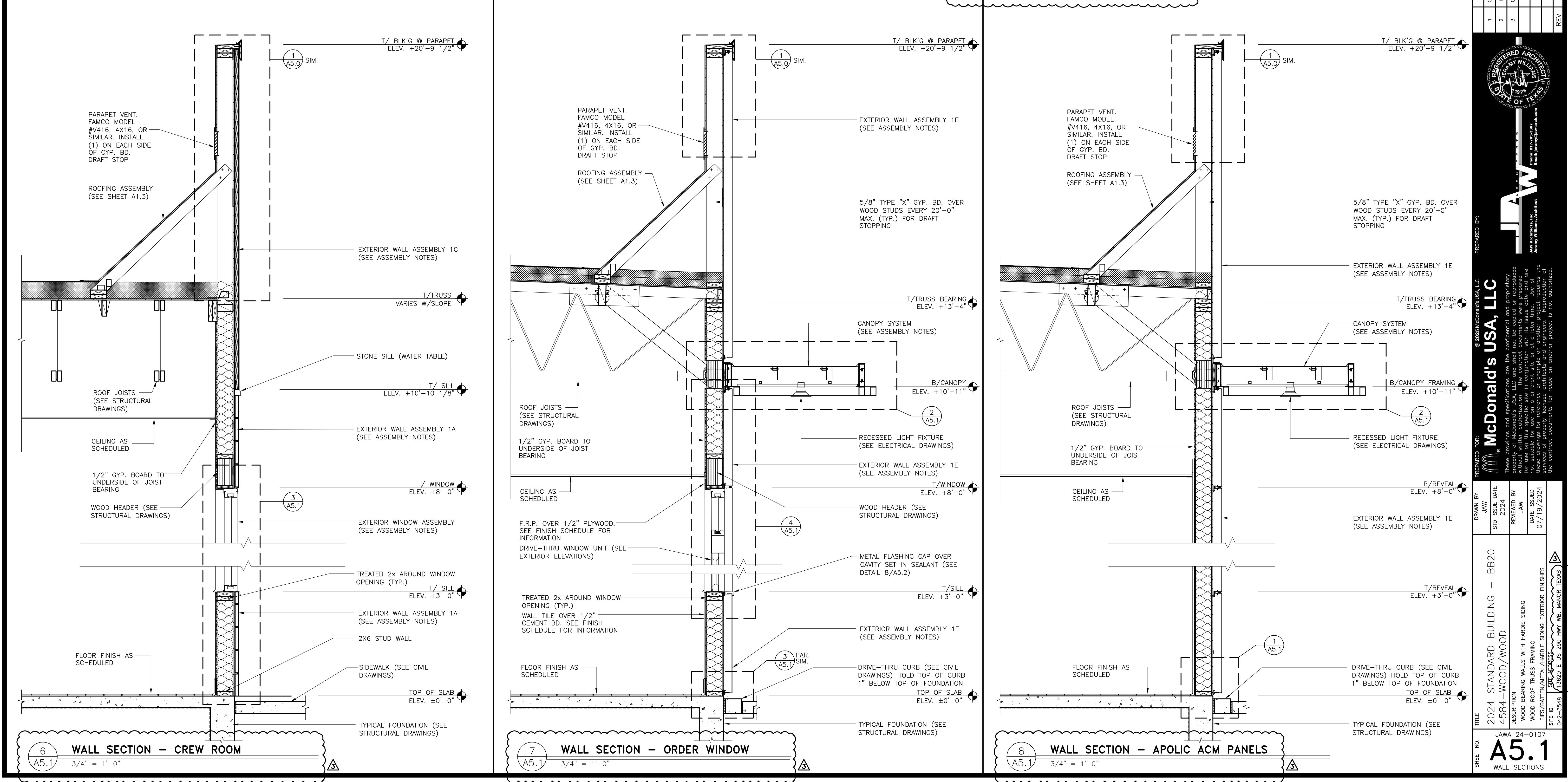
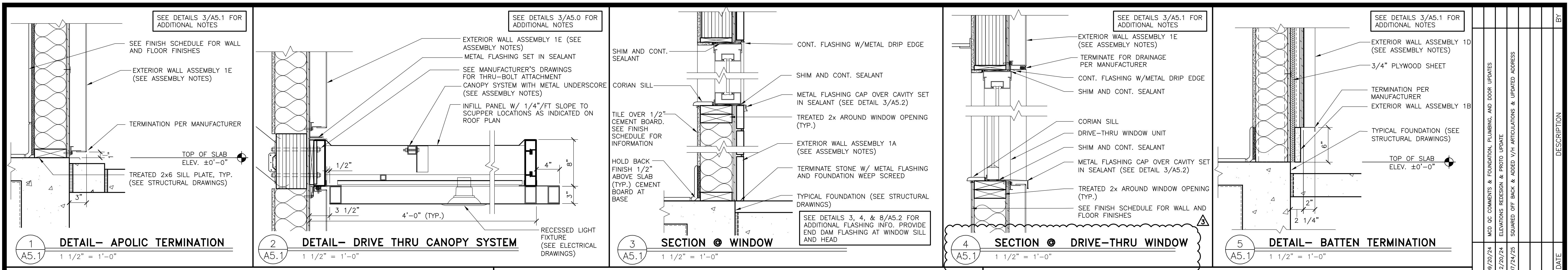
	ITEM (SEE NOTE 2)	MFR MODEL #	SUPPLIER	BACKUP SUPPORT (SEE NOTE 3)
1A	GRAB BAR 42"	BOBRICK B-6806X42	HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOMA.COM	(1)2x6 4'-0" LONG CENTER MOUNTED
1B	GRAB BAR 36"	B-6806X36		
1C	GRAB BAR 24"	B-6806X24		
2	TOILET TISSUE DISPENSER, JUMBO, SURFACE MOUNTED	BRADLEY 5424	HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOMA.COM	FRAME WALL OPENING PER MANUFACTURER'S RECOMMENDATIONS
3	SANITARY NAPKIN RECEPTACLE, RECESSED (OPTIONAL)	BOBRICK B-354	HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOMA.COM	
4A	HAND DRYER, ENERGY EFFICIENT MODEL, ADA, ALUMINUM BRUSHED	WORLD DRYER Q-973A2 VerdeDri	HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOMA.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@HAJOMA.COM	
4B OPTION	TOWEL DISPENSER & WASTE RECEPACLE, COMBINATION, RECESSED (OPTIONAL)	BOBRICK B-3974	HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOMA.COM	
5	MIRROR, CHANNEL FRAME	BOBRICK B-165 2436	HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOMA.COM	
6A	SOAP DISPENSER, COUNTER MOUNTED, 6" SPOUT (OPTIONAL)	BOBRICK B-82216	HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOMA.COM	
6B	SOAP DISPENSER, WALL-MOUNTED	BOBRICK B-2112	HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOMA.COM	
7	BABY CHANGING TABLE, HORIZONTAL, RECESSED, ADA COMPLIANT, STAINLESS STEEL	KOALA KARE KB310-SSRE	HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOMA.COM	INSTALL PER MANUFACTURER'S RECOMMENDATIONS
7 OPTION "A"	BABY CHANGING TABLE, HORIZONTAL, SURFACE MOUNT, ADA COMPLIANT, STAINLESS STEEL	KOALA KARE KB300-SS	HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOMA.COM	INSTALL PER MANUFACTURER'S RECOMMENDATIONS
8	DIAPER CONTAINER (OPTIONAL)	-	BY OWNER	
9	CLOTHES HOOK	BRADLEY 917	HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOMA.COM	
10	COAT RACK (CREW ROOM & BDAP)	BRADLEY 9944	HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOMA.COM	

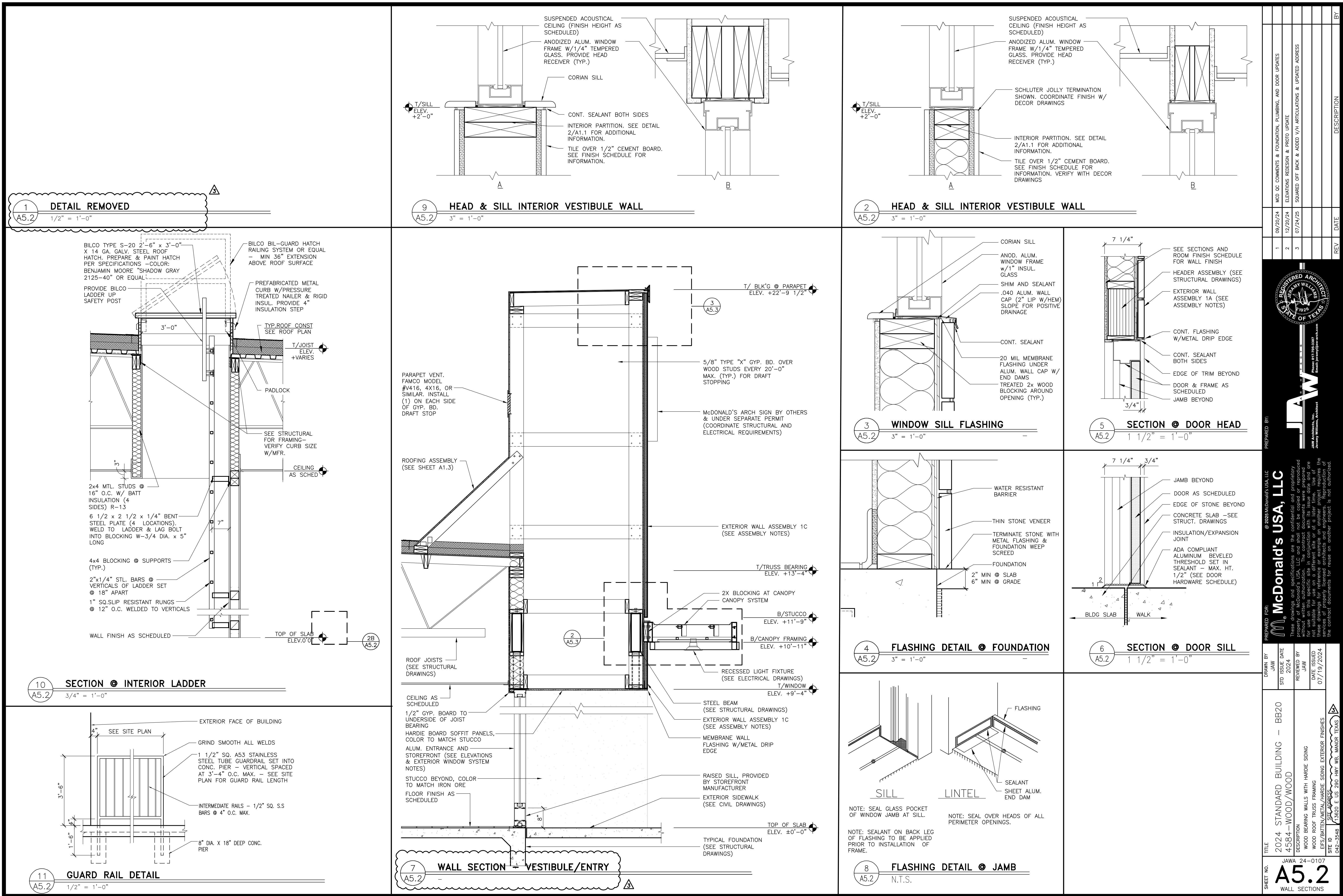
RESTROOM ACCESSORY SCHEDULE

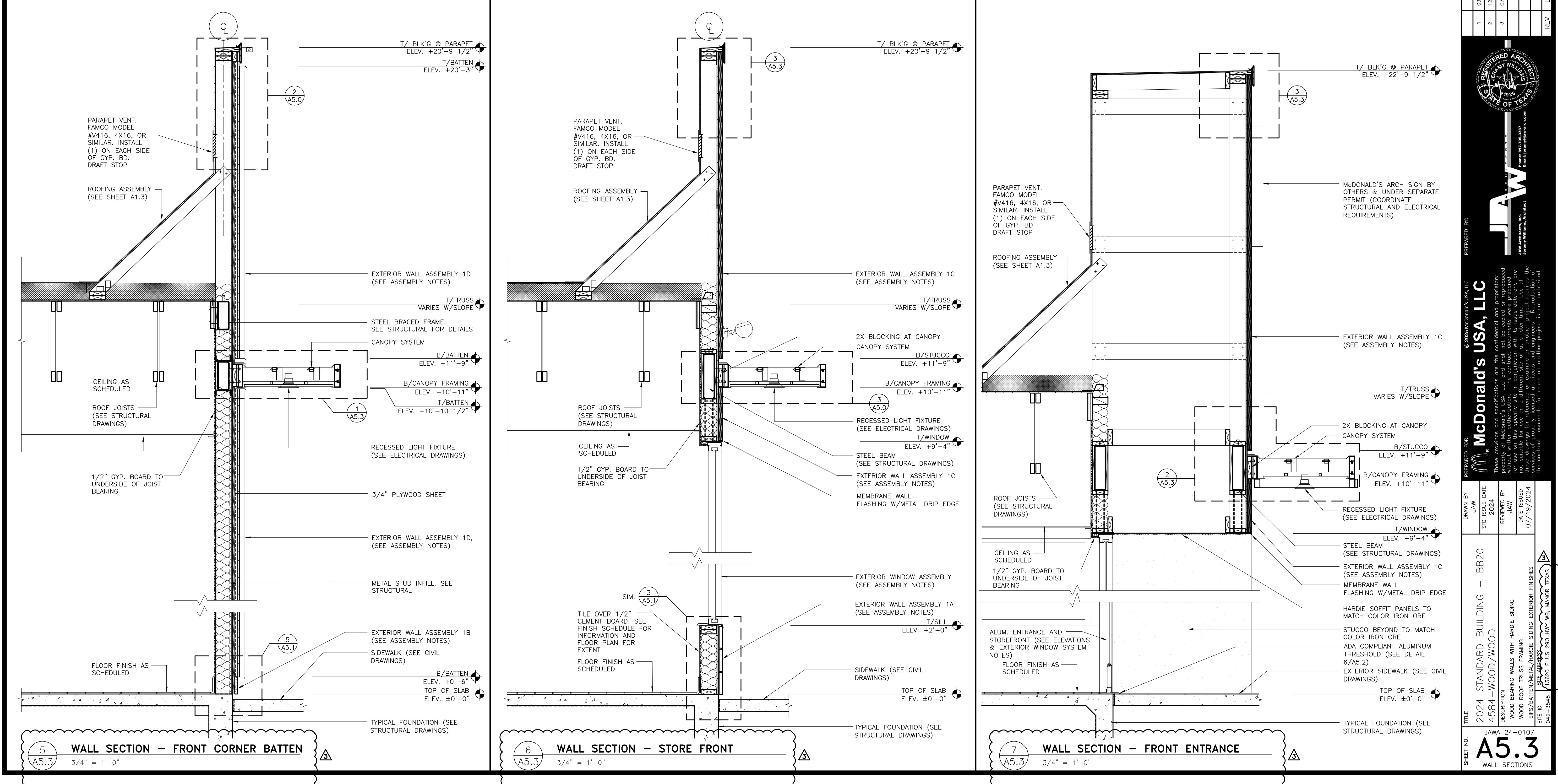
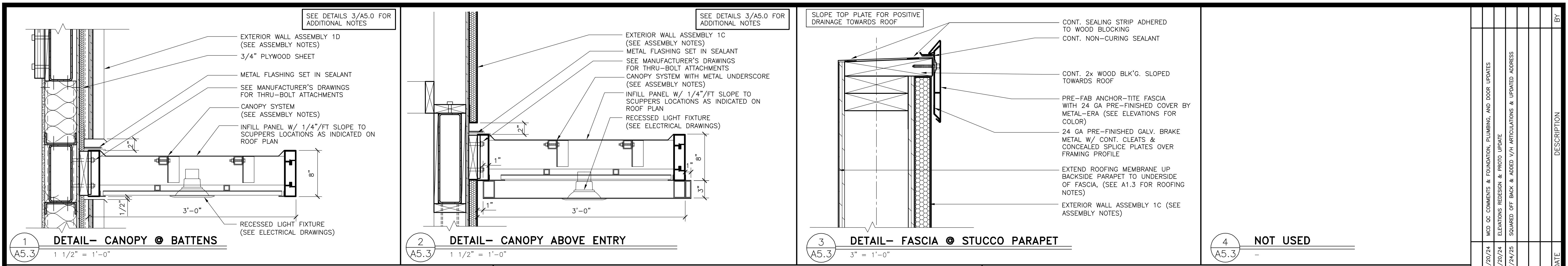
4584-WOOD/WOOD		2024	REVIEWED BY JAW	DATE ISSUED 07/19/2024
DESCRIPTION	WOOD BEARING WALLS WITH HARDIE SIDING WOOD ROOF TRUSS FRAMING EIFS/BATTEN/METAL/HARDIE SIDING EXTERIOR FINISHES	SITE ADDRESS 13620 E US 290 HWY WB, MANOR TEXAS		
SITE ID	042-3548			
JAWA	24-0107			
4.0				3
ESTROOM PLAN				

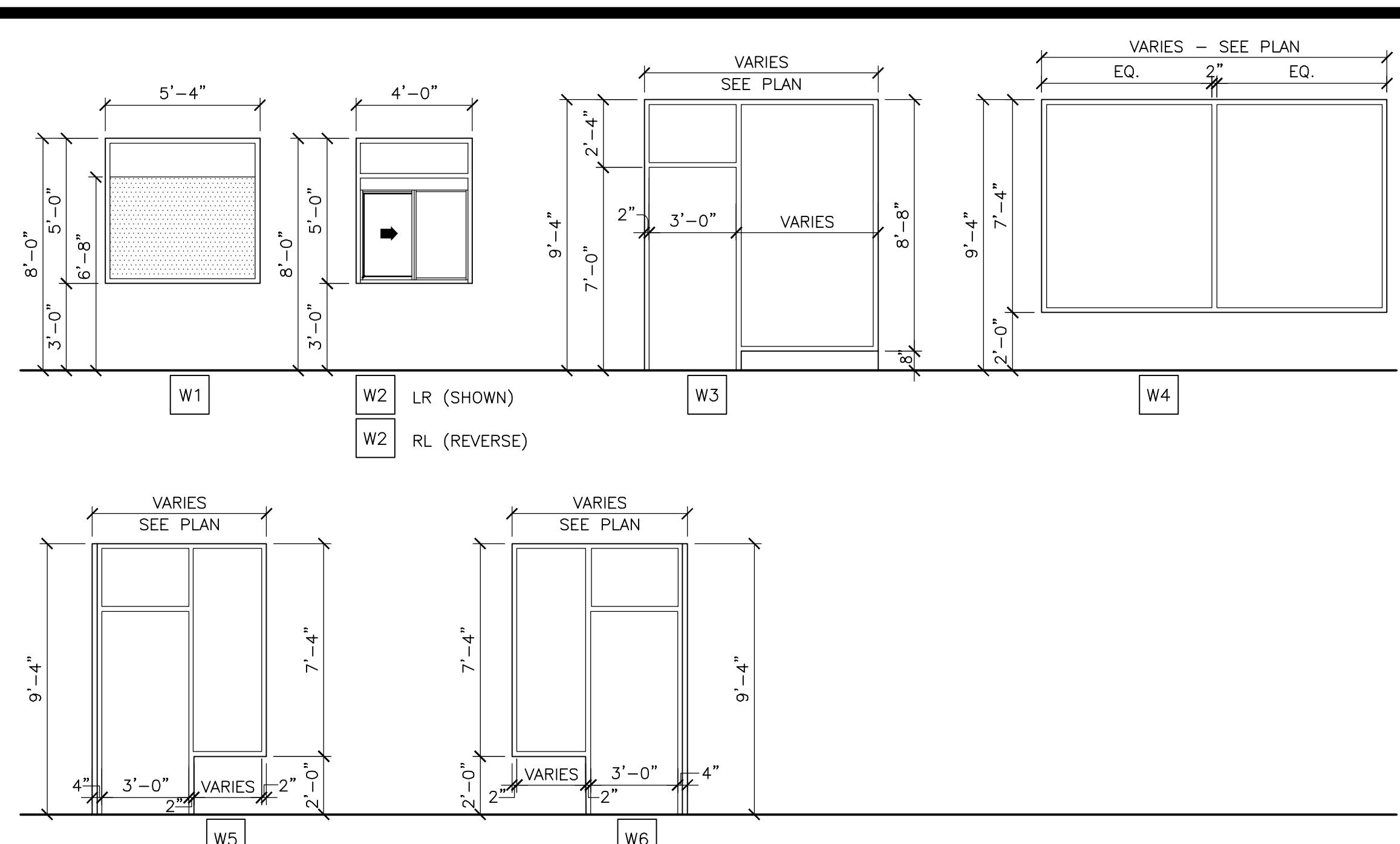
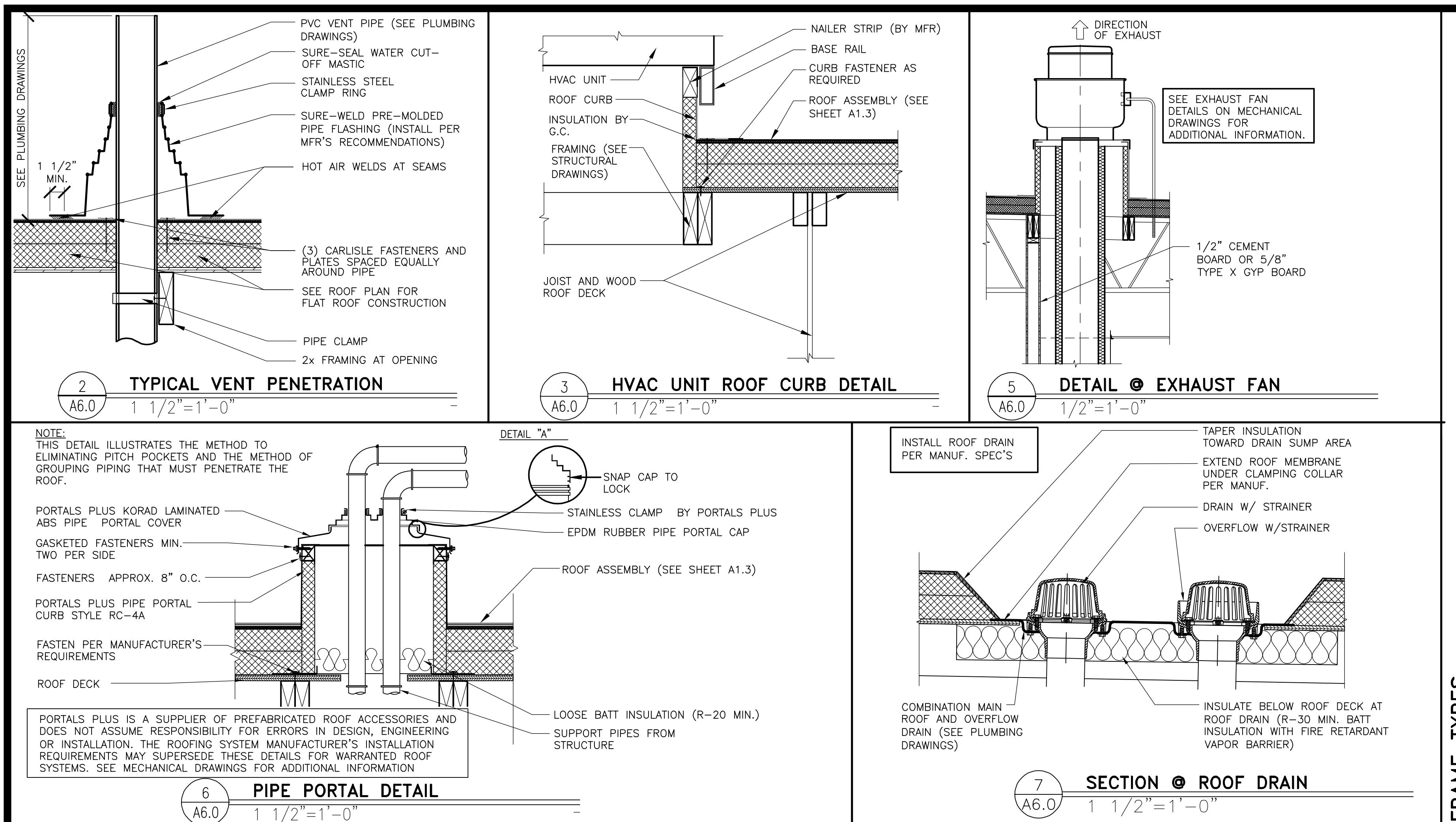












REV	DATE	DESCRIPTION
1	09/26/24	WCD GC COMMENTS & FOUNDATION, PLUMBING, AND DOOR UPDATES
2	12/26/24	ELEVATIONS REDESIGN & PROTO UPDATE
3	07/24/25	SQUARED OFF BACK & ADDED V/H ARTICULATIONS & UPDATED ADDRESS



REGISTERED ARCHITECT
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EXTERIOR WINDOW ASSEMBLY (STOREFRONT & ENTRANCE SYSTEM)

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

INTERIOR WINDOW ASSEMBLY (STOREFRONT & ENTRANCE SYSTEM)

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

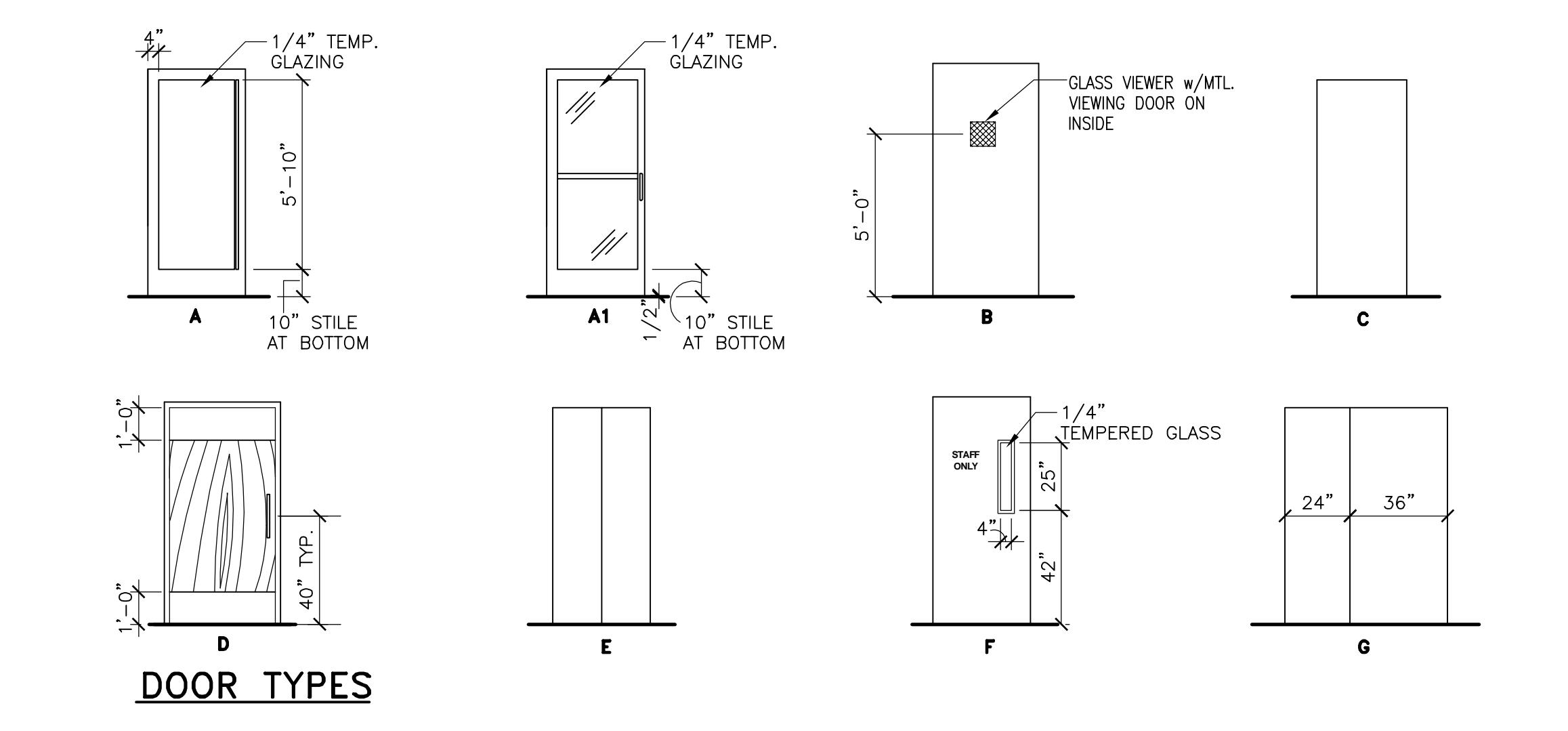
FRAME TYPES

DOOR SCHEDULE					
MARK	DOOR MATERIAL	SIZE	TYPE	MATERIAL	SIZE
1	1 EA HINGE 780-112HD 83" ALUM HAGER	3'-0"5"-7"-0"x1 3/4"	A	ALUM.	(NOTE 5)
2	1 EA CLOSER LDP4031 SNI ALUM LCN	3'-0"5"-7"-0"x1 3/4"	A1	ALUM.	(NOTE 5)
3	1 EA PUSH PLATE 305 4 X 32 US26D 40" AFF MOUNTED TO CENTER OF PLATE	OPTIONAL - FOR OUTSWING DOOR REPLACE WITH 3&B;			
3A	3 EA PANIC 9975EO-LD 36" SP28 V.DUPRIN	3A 1 EA PANIC 9975EO-LD 36" SP28 V.DUPRIN			
3B	3 EA TRIM 9900T US26D V.DUPRIN	3B 1 EA TRIM 9900T US26D V.DUPRIN			
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 PULL-PLUS SANITGRASP	B	H.M.	2"JAMB 4"HD
5	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 PULL-PLUS SANITGRASP	G	H.M.	2"JAMB 4"HD
6	1 EA ANNUNCIATOR BSV-24P SURFACE MOUNTED	6. 1 EA ANNUNCIATOR BSV-24P SURFACE MOUNTED	B	H.M.	2"JAMB 4"HD
7	1 EA FINGER GRD MK1A PUSH SIDE BRN F.SAFE	7. 3 EA PUSH BUTTON 621-BK-DA HDP 626 SCHLAGE	C	H.M.	2"JAMB & HEAD
8	1 EA FINGER GRD MK1B PULL SIDE BRN F.SAFE	8. 1 EA PUSH BUTTON 621-RD-DA HDP 626 SCHLAGE	D	H.M.	2"JAMB & HEAD
9	1 EA STEPPNELL PULL SIDE (OPTIONAL)	9. 1 EA HORN WITH STROBE 1910S SCHLAGE	D	H.M.	2"JAMB & HEAD
10	1 EA GLASS 5 X 26 X 3/4" UMCO	10. 1 EA GLASS 5 X 26 X 3/4" UMCO	C	H.M.	2"JAMB & HEAD
11	1 EA VIEW FRAME LFR100 6 X 27 DKB N.GUARD	11. 1 EA VIEW FRAME LFR100 6 X 27 DKB N.GUARD	F	H.M.	2"JAMB & HEAD
8A	S.C. WOOD W/ LAM.	NOT USED			
9A	INSULATED METAL	(2)-2'-0"-8"-0"x1 3/4"	E	H.M.	2"JAMB & HEAD
9B	INSULATED METAL	3'-0"x6"-6"x4"	C	N/A	N/A
9C	INSULATED METAL	4'-0"x6"-6"x4"	C	N/A	N/A
10		NOT USED			
11		NOT USED			
14		NOT USED			
13	H.M.	3'-0"5"-7"-0"x1 3/4"	C	H.M.	2"JAMB 4"HD
13	S.C. WOOD W/ LAM.	3'-0"5"-7"-0"x1 3/4"	C	H.M.	2"JAMB & HEAD
15	H.M.	4'-0"x7"-0"x1 3/4"	C	H.M.	2"JAMB 4"HD
16					
17					

PREPARED BY:

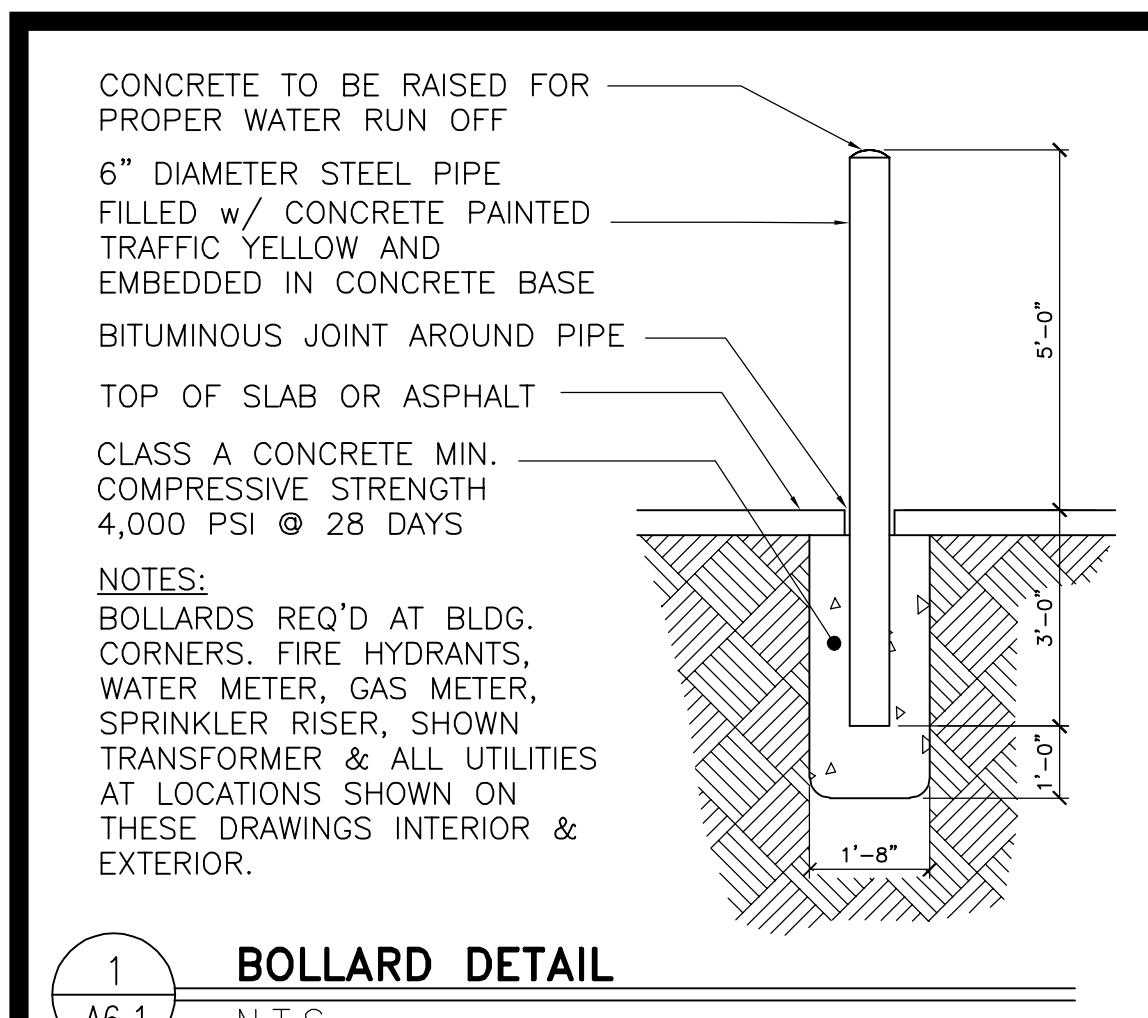
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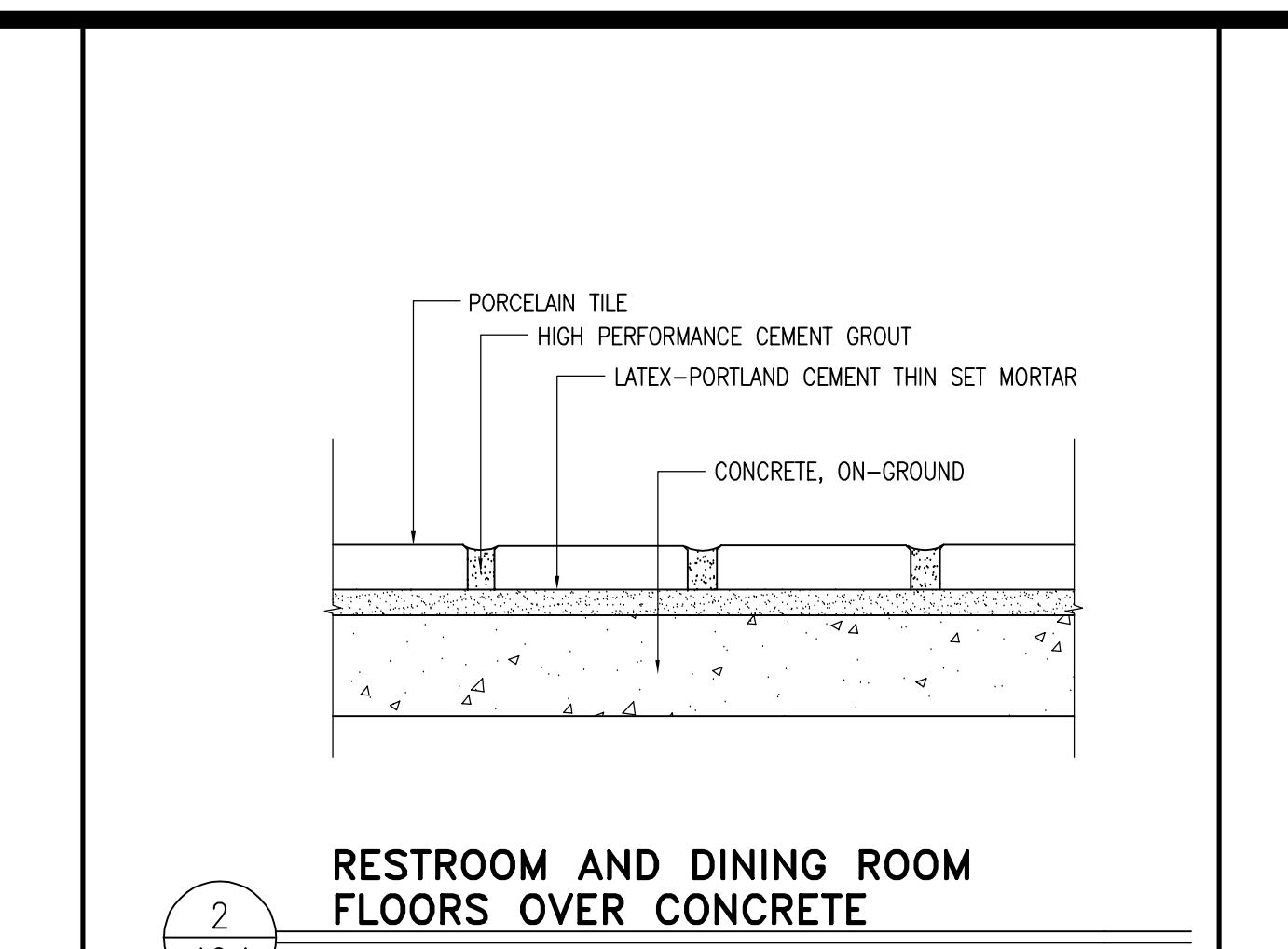
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A6.0
DOOR & HARDWARE

GENERAL NOTES:	
1. ALL EXIT DOORS SHALL BE KEYSLESS IN THE DIRECTION OF EGRES.	
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 18"	
2. 3 EA HINGES OFFSET PILOT 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. EA HIGH MOUNTED OUTDOOR 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 PILOT ANSI-A-156.4 GRADE 1; BY DOOR MANUFACTURER.	
3. 1 EA PUSH/PULL HANDLE HAGER PUSH/PULL SET 1640/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	
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 LVGLFD 9 X 9 DBK W/FLAP ON INSIDE N.GUARD	
12. 1 EA MORTISE CYL HOUSING 7PIN SFC 626	
13. 1 EA 7 PIN CONSTRUCTION CORE FOR ABOVE 626	
14. 1 EA CONTROL KEY FOR ABOVE	
DOOR #3A -- FREEZER DELIVERY (DOUBLE DOOR)	
1. 1 EA CLOSER 4111 H-CUSH ALUM LCN	
2. 1 EA TREADPLATE 24 X 46 UMCO	
3. 1 EA WTH/STP160V 48 X 84 N.GUARD	
4. 1 EA THRESHOLD 325HD 48" N.GUARD	
5. 1 EA SWEEP 101VA 48" N.GUARD	
6. 1 EA VIEW FRAME LVGLFD 9 X 9 DBK W/FLAP ON INSIDE N.GUARD	
7. 1 EA MORTISE CYL HOUSING 7PIN SFC 626	
8. 1 EA 7 PIN CONSTRUCTION CORE FOR ABOVE 626	
9. 1 EA CONTROL KEY FOR ABOVE	
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	
5. 1 EA ALARM LOCK PG21MSS ALARM	
6. 1 EA LOCKGUARD CLP110 US32D DON-JO	
7. 1 EA TREADPLATE 24 X 34 UMCO	
8. 1 EA WTH/STP160V 36 X 84 N.GUARD	
9. 1 EA THRESHOLD 325HD 48" N.GUARD	
10. 1 EA SWEEP 101VA 36" N.GUARD	
11. 1 EA VIEW FRAME LVGLFD 9 X 9 DBK W/FLAP ON INSIDE N.GUARD	
12. 1 EA MORTISE CYL HOUSING 7PIN SFC 626	
13. 1 EA 7 PIN CONSTRUCTION CORE FOR ABOVE 626	
14. 1 EA CONTROL KEY FOR ABOVE	



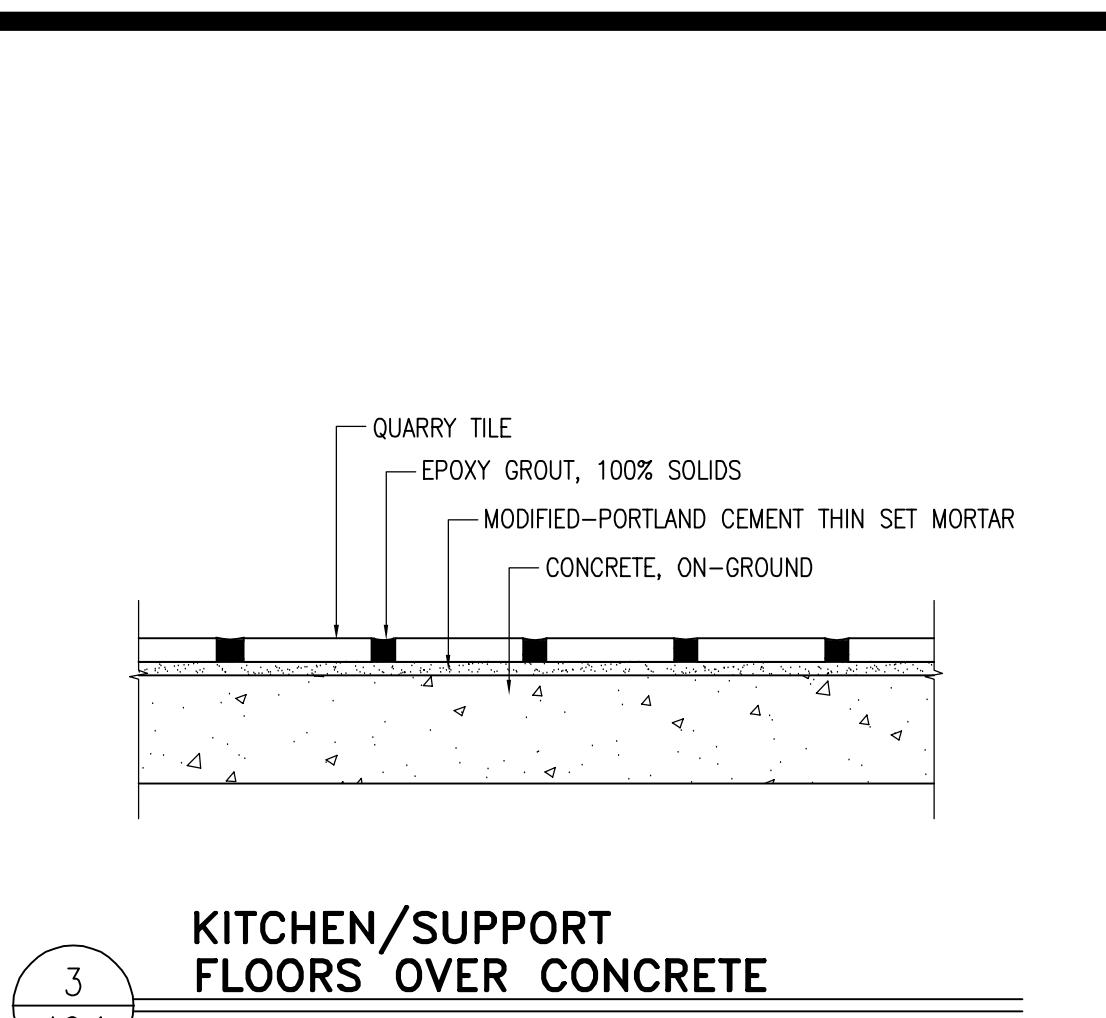
1 BOLLARD DETAIL

A6.1 N.T.S.



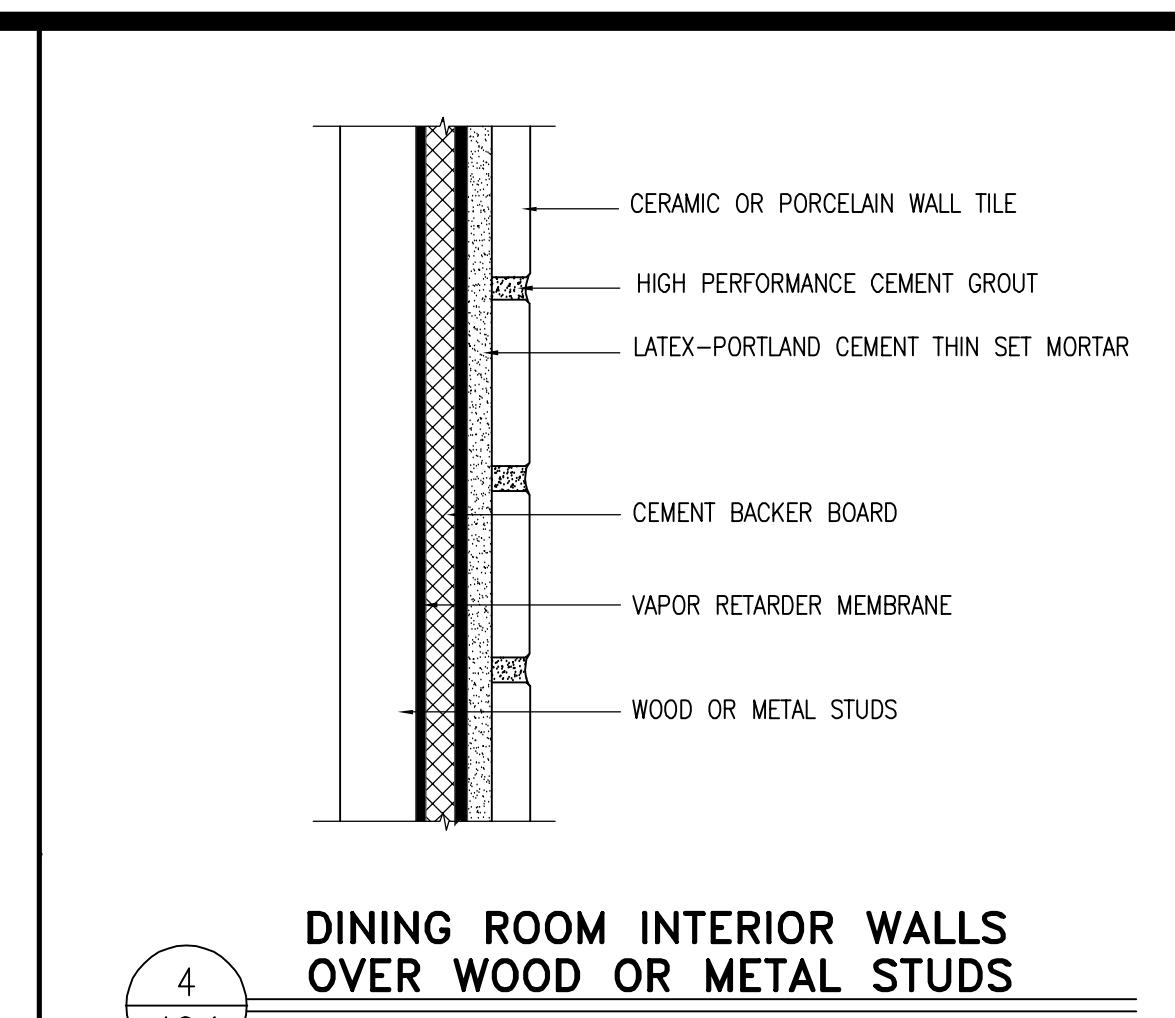
2 RESTROOM AND DINING ROOM FLOORS OVER CONCRETE

A6.1 N.T.S.



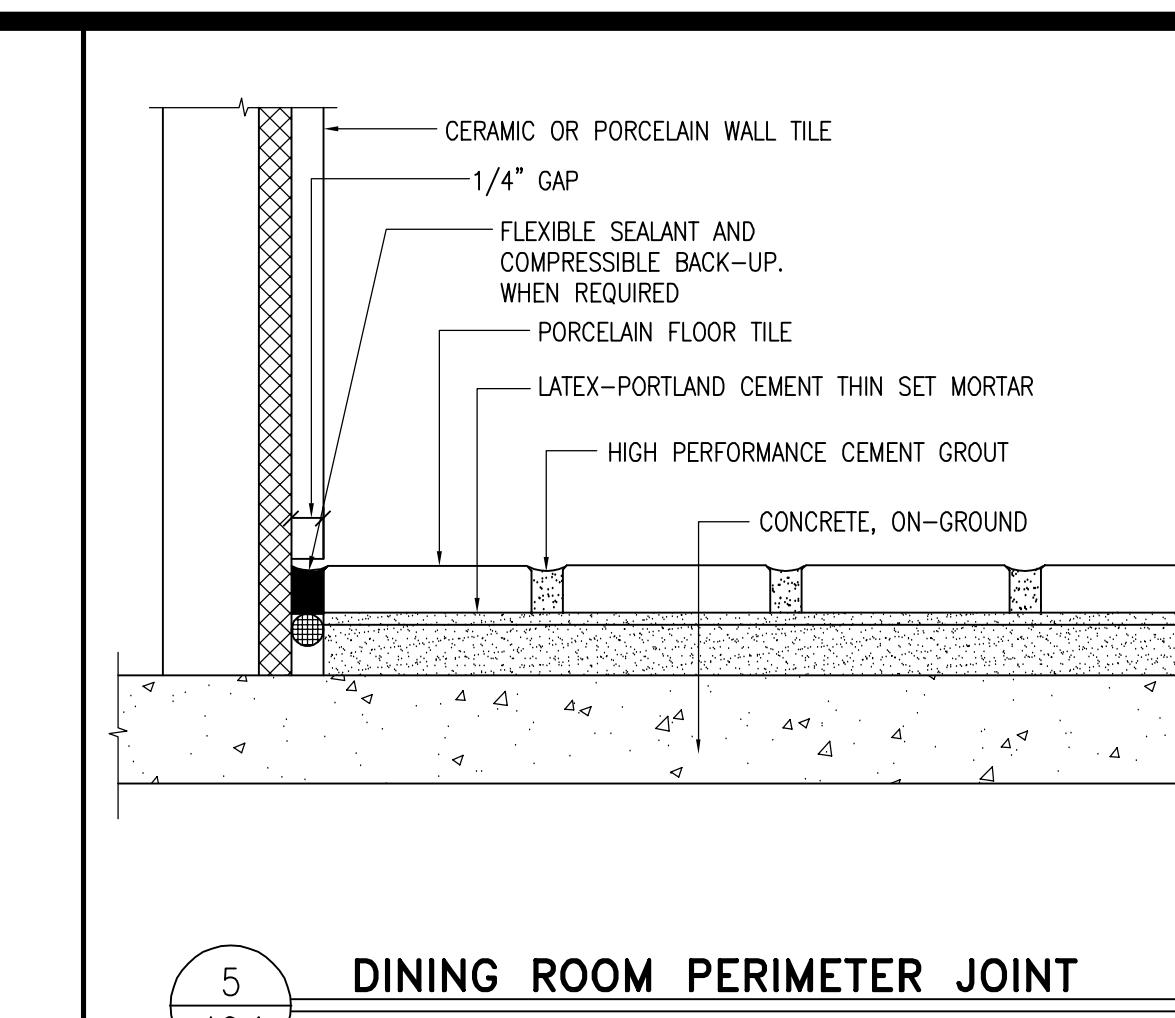
3 KITCHEN/SUPPORT FLOORS OVER CONCRETE

A6.1 N.T.S.



4 DINING ROOM INTERIOR WALLS OVER WOOD OR METAL STUDS

A6.1 N.T.S.



5 DINING ROOM PERIMETER JOINT

A6.1 N.T.S.

WALL TILE SCHEDULE - RAY

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	---	---
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 - RAY

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	PORCELAIN FLOOR TILE	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 SCHED	---	---	---

ROOM FINISH SCHEDULE - RAY

MARK	ROOM NAME	SUBSTRATE	FINISH	CEILING *	REMARKS
100	CUSTOMER SERVICE	CEMENT BOARD	TILE **	TILE AS NOTED ON A1.1 AND A3.1	2'x2" VINYL-FACED LAY-IN
101	DINING	CEN 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.
103	MEN'S TOILET	CEMENT BOARD	TILE	STAINLESS STEEL CORNERS	BENJAMIN MOORE - "OC-17 WHITE DOVE"
104	SUPPORT	CEMENT BOARD	TILE	STAINLESS STEEL CORNERS, TILE OVER CEM BD AS NOTED ON A1.1	BENJAMIN MOORE - "OC-17 WHITE DOVE"
105	KITCHEN	CEMENT BOARD	TILE	TILE AS NOTED ON A1.1	SEE NOTE 5 FOR WALL FINISH EXCEPTIONS
106	PRESENTER-1	CEMENT BOARD	TILE		SEE SHEET A1.1 FOR EXTENT OF CEMENT BOARD, SS OR CT
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	CEMENT BOARD	TILE/V.W.C. **	SEE NOTE 8	2'x2" VINYL-FACED 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	STAINLESS STEEL CORNERS, TILE OVER CEM BD AS NOTED ON A1.1	PAINTED GYP. BD.
113	CREW ALCOVE	CEMENT BOARD	TILE	2'x2" VINYL-FACED LAY-IN	SEE SHEET A1.1 FOR EXTENT OF CEMENT BOARD, SS OR CT
114	JANITOR'S CLOSET	CEMENT BOARD	TILE	PAINTED GYP. BD.	EXT GRADE PLYWOOD (NOTE 4) SEE NOTE 5A
115	VESTIBULE	CEN BD/GYP BD	TILE/V.W.C.	SEE DINING ROOM FINISH SCHEDULE	OPTIONAL PEDIMAT. SEE DETAIL 7/A6.1. VERIFY WITH MCD CONSTRUCTION MANGER AT CEILING
116	PRESENTER-2	CEMENT BOARD	TILE	2'x2" VINYL-FACED LAY-IN	8. CREW ROOM FINISHES: NORTH WALL: MOMENTUM WALL GRAPHIC - VIS703.
117	CO2	CEMENT BOARD	TILE	PAINTED GYP. BD.	EAST/WEST/SOUTH WALLS: TILE WAINSOT TO 3' A.F.F. - ICG ITALIA ARCHITECT FACTORY 12"x24". TILE COVE BASE - ICG ITALIA ARCHITECT FACTORY 6"x12". RAY WOOD WALL COVERING - MOMENTUM NA-SC-MCP602 - P3TEC ALPINE, OAK.

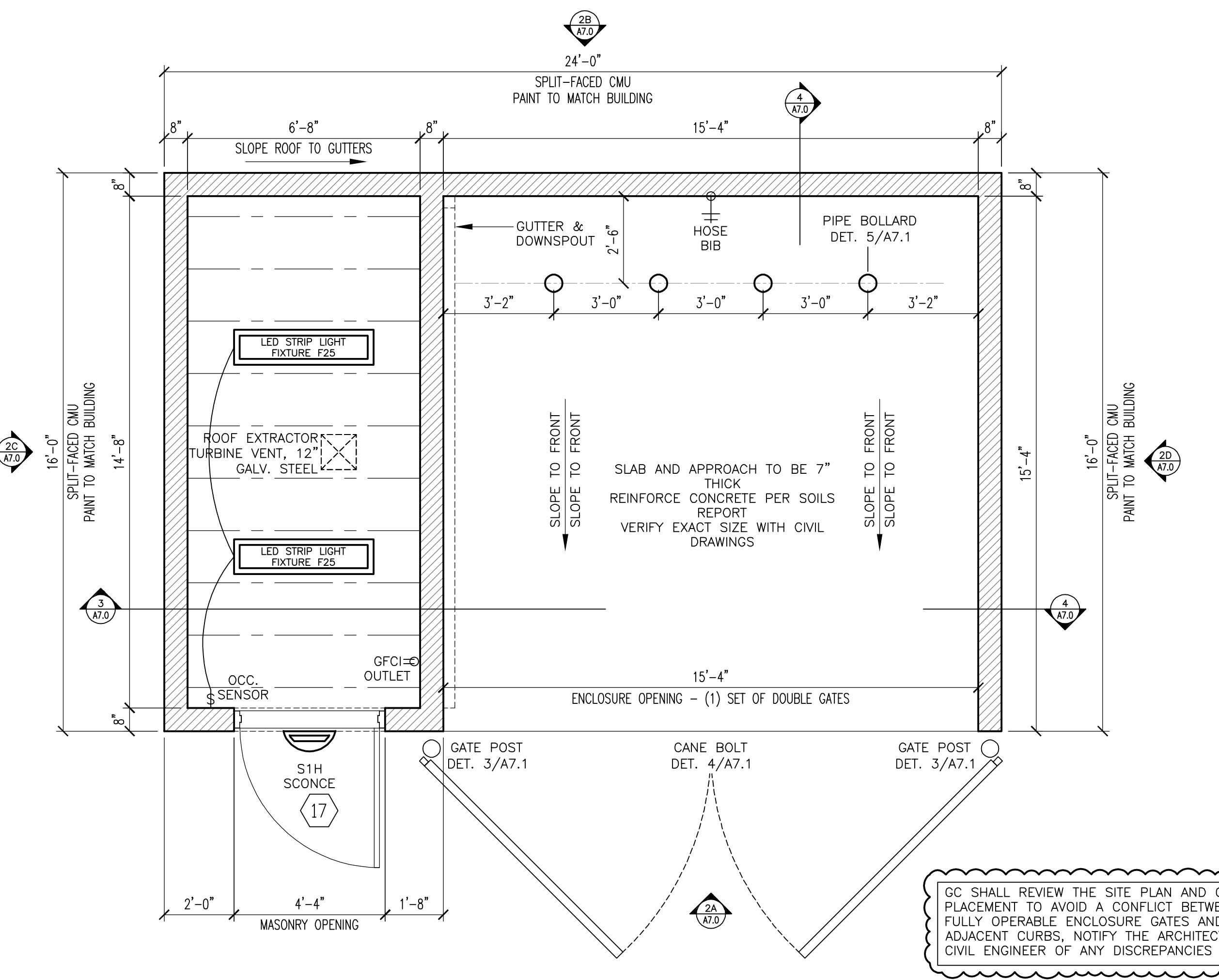
DINING ROOM FINISH SCHEDULE - RAY

MARK	QUANTITY	TYPE	PRODUCT, FINISH & COLOR	REMARKS
N/A	WALL PANEL	48"x120"x3/8"	NATURAL RIFT LAMINATE WALL PANEL SYSTEM	TRIM: SATIN ANODIZED ALUMINUM
D2	N/A	WALL PANEL	48"x120"x3/8" INDUSTRIAL CONCRETE LAMINATE WALL PANEL SYSTEM	TRIM: SATIN ANODIZED ALUMINUM
D3	N/A	WALL PANEL	48"x60"x3/8"	TRIM: SATIN ANODIZED ALUMINUM
D4	N/A	WALL PAINT	BENJAMIN MOORE - AF-700 STORM	
D5	N/A	SERVICE AREA TRIM	SCHLUTER - RONDEC-AE - SATIN ANODIZED ALUMINUM	
D6	N/A	WINDOW SILLS AND CASEMENT	DUPONT - CORIAN "DEEP CLOUD"	
D7	N/A	MAIN CEILING TILE	USG - FROST CLIMALPLUS 414.205 FLAT BLACK 205 - 24"x24" DROP IN CEILING W/ SQUARE EDGES	GRID: USG DX/DXL 15/16" SQUARE LAY-IN
D8	N/A	ACCENT CEILING	ACOUSTICAL SURFACES INC. - MCDONALD'S CUSTOM ACOUSTIMILIT FLAT FOLD PANEL, 24"x24" & 24"x48"	GRID: DX/DXL26 15/16" HEAVY DUTY BLACK GRID
D9	N/A	CEILING VENT PAINT	BENJAMIN MOORE - SPACE BLACK 2119-10	
D10	N/A	CLASS PARTITION	1/2" LAMINATED SAFETY GLASS WITH DOT GRADIENT PATTERN GRAPHIC, WILSONART - 7954-38 NATURAL RIFT	FRAME FINISH: BLACK ANODIZED ALUMINUM
D11	N/A	PR BOOTH HALF-WALL	36"x44"x4"x5", WALL FINISH: LAMTECH 2255 MT IRON, TOP CAP FINISH: DUPONT CORIAN DEEP CLOUD	BASE FINISH: LAMTECH 2255 MT IRON, COMPACT, CORNER GUARD: ALUMINUM BEAD
D12	N/A	WINDOW SHUTTER - SILL MOUNTED	7'-4"x2'-9", WILSONART 7954-38 NATURAL RIFT, ACCENT FINISH: WILSONART D12-60 REGIMENTAL RED	FRAME FINISH: FORD BLATTE MATTE POWDERCOAT
D13	SEE PLAN	COVE LIGHTING	CS ILLUMINATION - SURFACE MOUNT LINEAR LED	SEE ELECTRICAL
D14	SEE PLAN	PENDANT LIGHTING	CS ILLUMINATION - STRAW PENDANT - 36", SATIN WHITE DIFFUSER, RED CORD, CANOPY. STANDARD 96" ADJUSTABLE LENGTH	SEE ELECTRICAL
D15	SEE PLAN	SCONCE LIGHTING	CS ILLUMINATION - FRY SCONCE - 36", VERTICAL ANGLED WOOD SCONCE, 36" LONG x 1.5" SQUARE WITH LED SOURCE	SEE ELECTRICAL
D16	SEE PLAN	SCONCE LIGHTING	CS ILLUMINATION - SMALL SINGLE ARM, RED FINISH	SEE ELECTRICAL
D17				
D18				
D19				
D20				

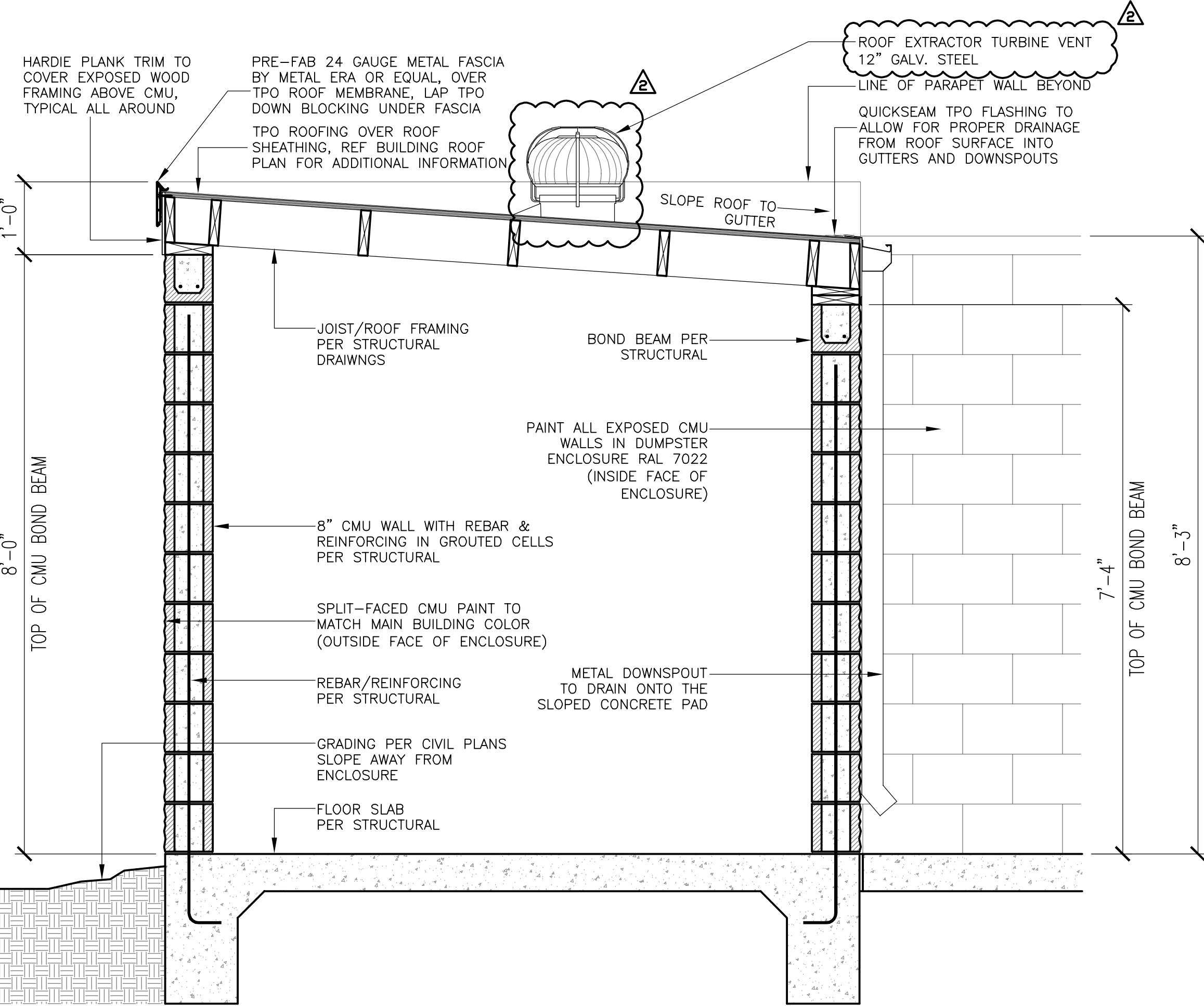
* SEE CEILING PLAN FOR HEIGHTS & LAYOUTS

** VWC ON EXTERIOR WALL ASSEMBLIES TO BE PERFORATED

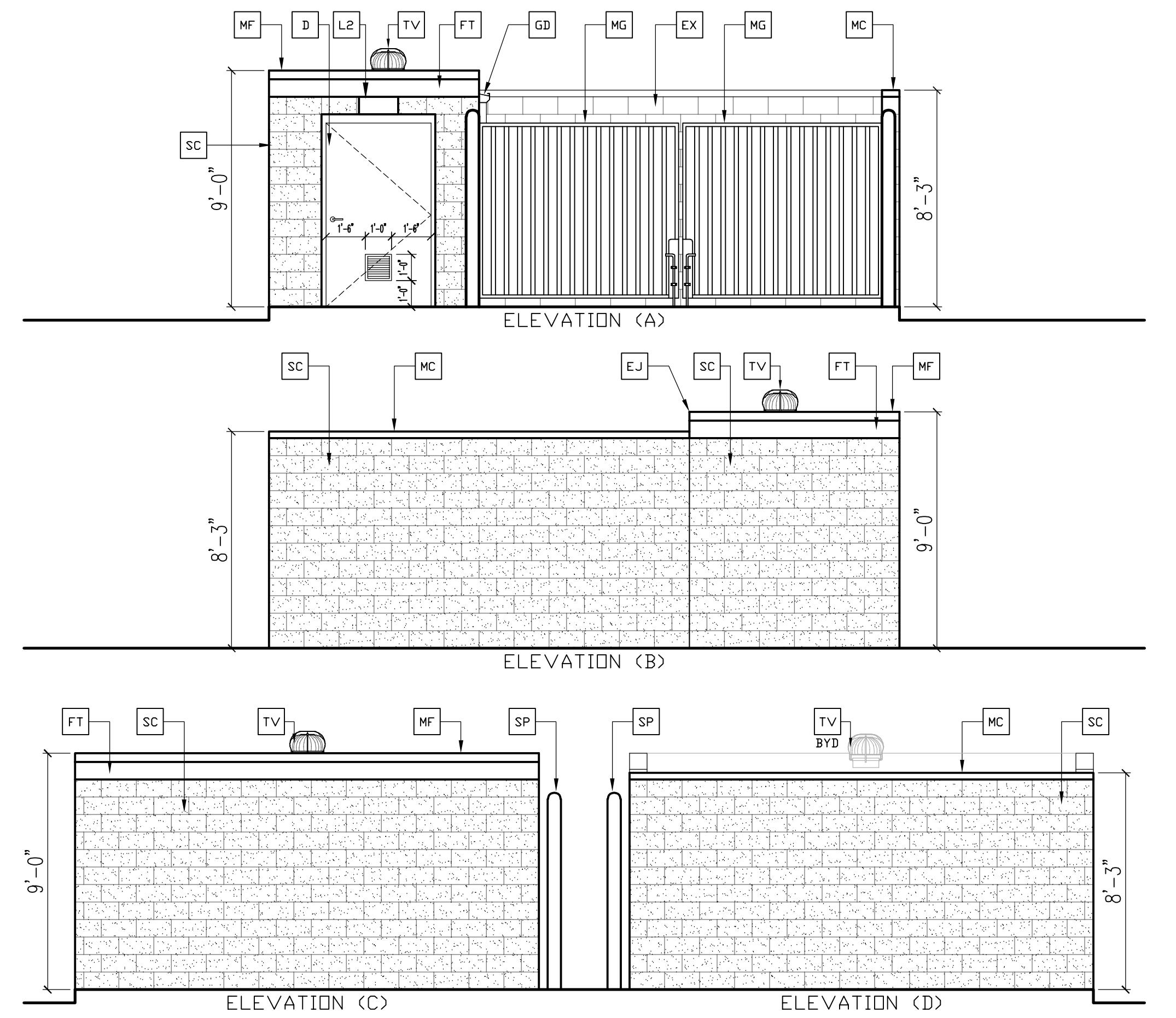
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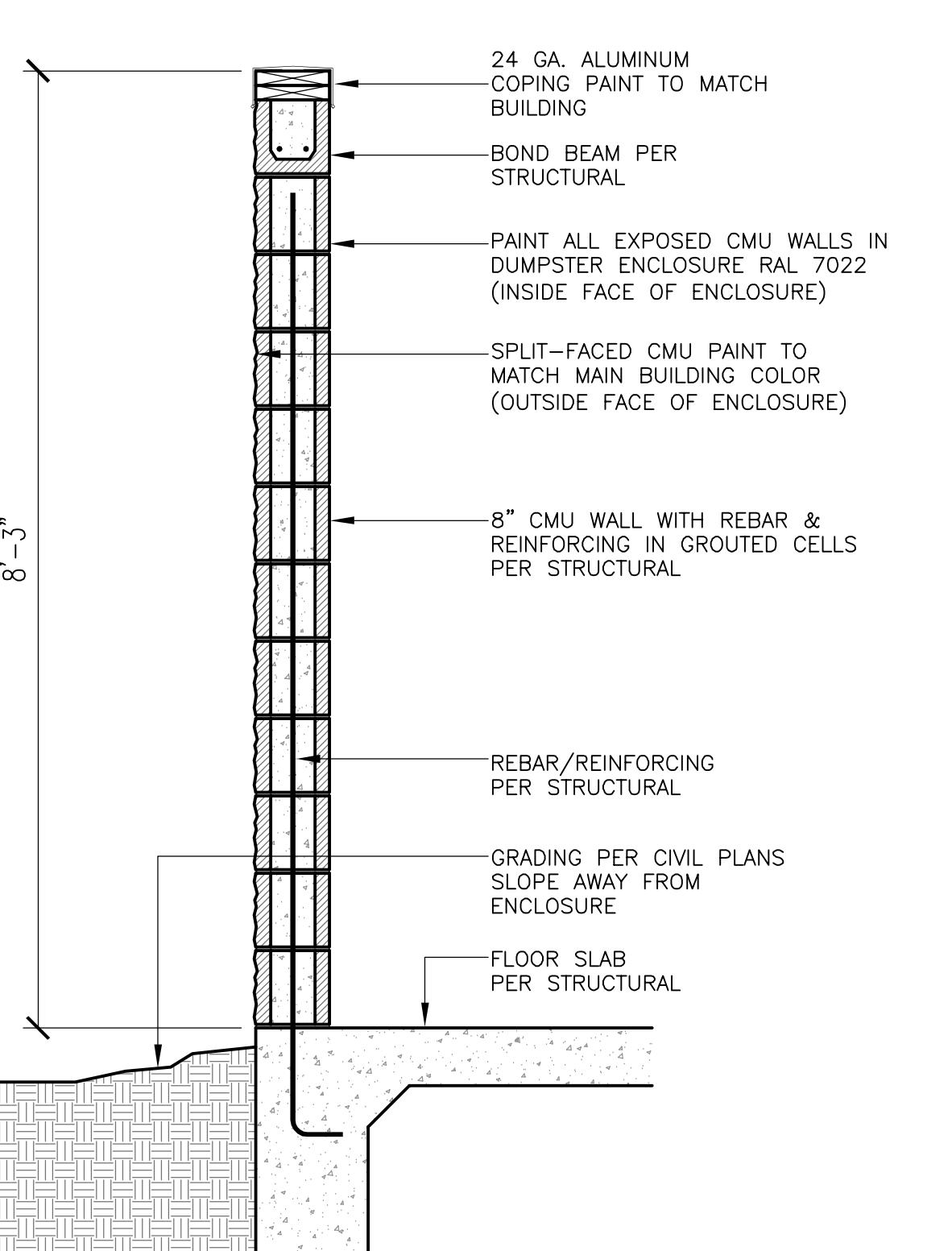
1 | STORAGE BUILDING PLAN SCALE 3/8"=1'-0"



3 | WALL SECTION DETAIL SCALE 3/4"=1'-0"



2 | DUMPSTER ENCLOSURE PLAN SCALE 1/4"=1'-0"



4 | WALL SECTION DETAIL SCALE 3/4"=1'-0"

KEY NOTES:

- HOLLOW METAL DOOR PAINT: "COTTON WHITE" SW7104 BY SHERWIN WILLIAMS
- TYPICAL CMU EXPANSION JOINT WITH BACKER ROD AND SEALANT
- EX GC TO PAINT EXPOSED CMU BLOCK RAL 7022 (INSIDE FACE OF ENCLOSURE)
- FT FIBER CEMENT FASCIA BOARD: COLOR TO MATCH RAL 7022
- GD METAL GUTTERS AND DOWNSPOUT DRAIN ONTO DUMPSTER ENCLOSURE SLAB (PAINT RAL 7022)
- L2 RADIAL SCONCE LIGHT FIXTURE - SEE ELECTRICAL COLOR: PLATINUM SILVER
- MC 24 GAUGE ALUMINUM COPING OVER CMU ENCLOSURE WALLS COLOR TO MATCH "MF"
- MF METAL FASCIA - PRE-FAB ANCHOR-TITE FASCIA COLOR TO MATCH RAL 7022
- MG METAL DUMPSTER ENCLOSURE ENTRY GATES, REF DETAILS AND NOTES (COLOR TO MATCH RAL 7022)
- SC SPLIT-FACED CMU PAINT TO MATCH "BEACHCOMBER" SW 9617 BY SHERWIN WILLIAMS (OUTSIDE FACE OF ENCLOSURE)
- SP STEEL CONCRETE FILLED POST PAINT TO MATCH RAL 7022
- TV ROOF EXTRACTOR TURBINE VENT 12" GALV. STEEL

GENERAL NOTES:

GENERAL CONTRACTOR TO PROVIDE 6 INCHES OF EXPOSED GRADE BREAMS AROUND THE STORAGE BUILDING WITH THE EXCEPTION OF THE DOOR LOCATION, COORDINATE WITH THE CIVIL GRADING PLANS.

5/8" PUDLE WELD B/N DECK & ALL ANGLE TYPICAL IN EACH DECK FLUTE, PROVIDE #12 SCREWS @ 6" O.C. AT ALL DECK S SIDE LAPS.

GENERAL CONTRACTOR TO SUPPLY AND INSTALL CORRUGATED METAL GATE (16 GAUGE) F-DECKING, ALL METAL TO BE PRIMED AND PAINTED TO MATCH THE BUILDING TRIM COLOR, VERIFY WITH ACM.

PROVIDE A 12X12 LOUVER VENT IN HOLLOW METAL DOOR, SEE ELEVATIONS.

ELECTRICAL NOTES:

OCCUPANCY SENSOR: GC TO PROVIDE A WALL MOUNTED OCCUPANCY SENSOR, REF ELECTRICAL PLANS FOR MORE INFORMATION.

GC TO INSTALL NEW STRIP LIGHT FIXTURE, PER MANF.'S RECOMMENDATIONS. F25 - 42W LED BY COLUMBIA LIGHTING #LC14-40ML-EDU.

GC TO PROVIDE A 20A, 120V, RECEPTACLE WITHIN 25 FEET OF THE HVAC EQUIPMENT, PER CODE.

ALL LIGHTING/POWER SHALL BE CONNECTED TO AN APPROPRIATE CIRCUIT IN THE MAIN BUILDING PANELS, VERIFY CIRCUITING PRIOR TO ROUGH-IN.

PREPARED BY:

JAW

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JAW

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JAW

REVIEWED BY:

JAW

DATE ISSUED:

07/19/2024

DRAWN BY:

JAW

STD ISSUE DATE:

2024

SITE ID:

042-3548

BY:

JAY

REV:

DATE:

DESCRIPTION:

2024 STANDARD BUILDING - BB20

4584-WOOD/WOOD

WOOD BEARING WALLS WITH HARDIE SIDING

WOOD ROOF TRUSSES FRAMING

EFPS/BATTEN/METAL/HARDIE SIDING EXTERIOR FINISHES

4580 E US 290 HWY MAJOR TEXAS

STREET ADDRESS:

13620

CITY:

WILLIAMSBURG

STATE/PROVINCE:

VA

ZIP/POSTAL CODE:

23185

PHONE NUMBER:

804-388-3387

EMAIL ADDRESS:

Email@jerrywilliamsarchitect.com

FAX NUMBER:

REGISTRATION NUMBER:

1825

EXPIRATION DATE:

12/20/24

ISSUED DATE:

07/24/25

SQUARED OFF BACK & ADDED V/H ARTICULATIONS & UPDATED ADDRESS

BY:

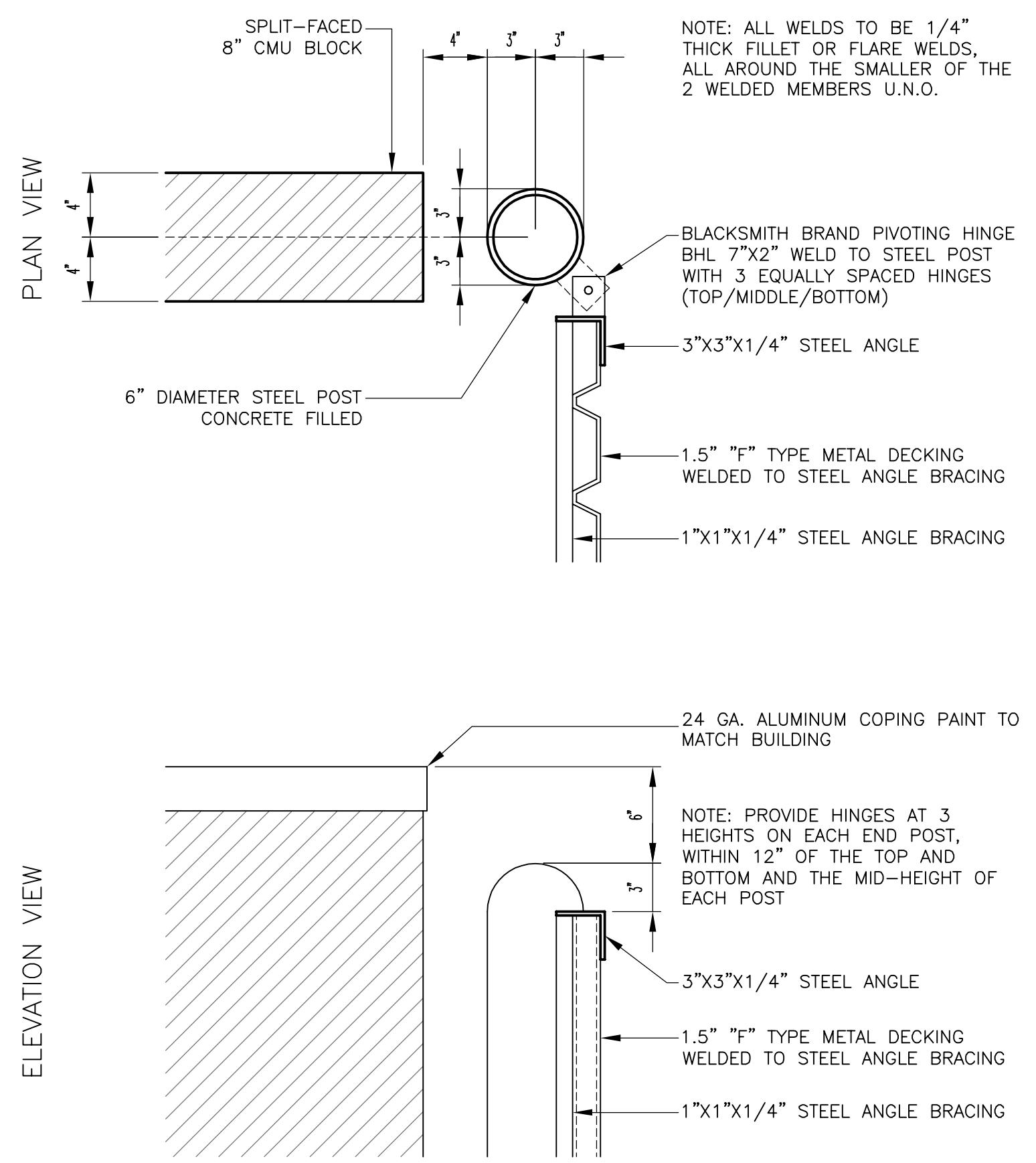
JAY

DATE:

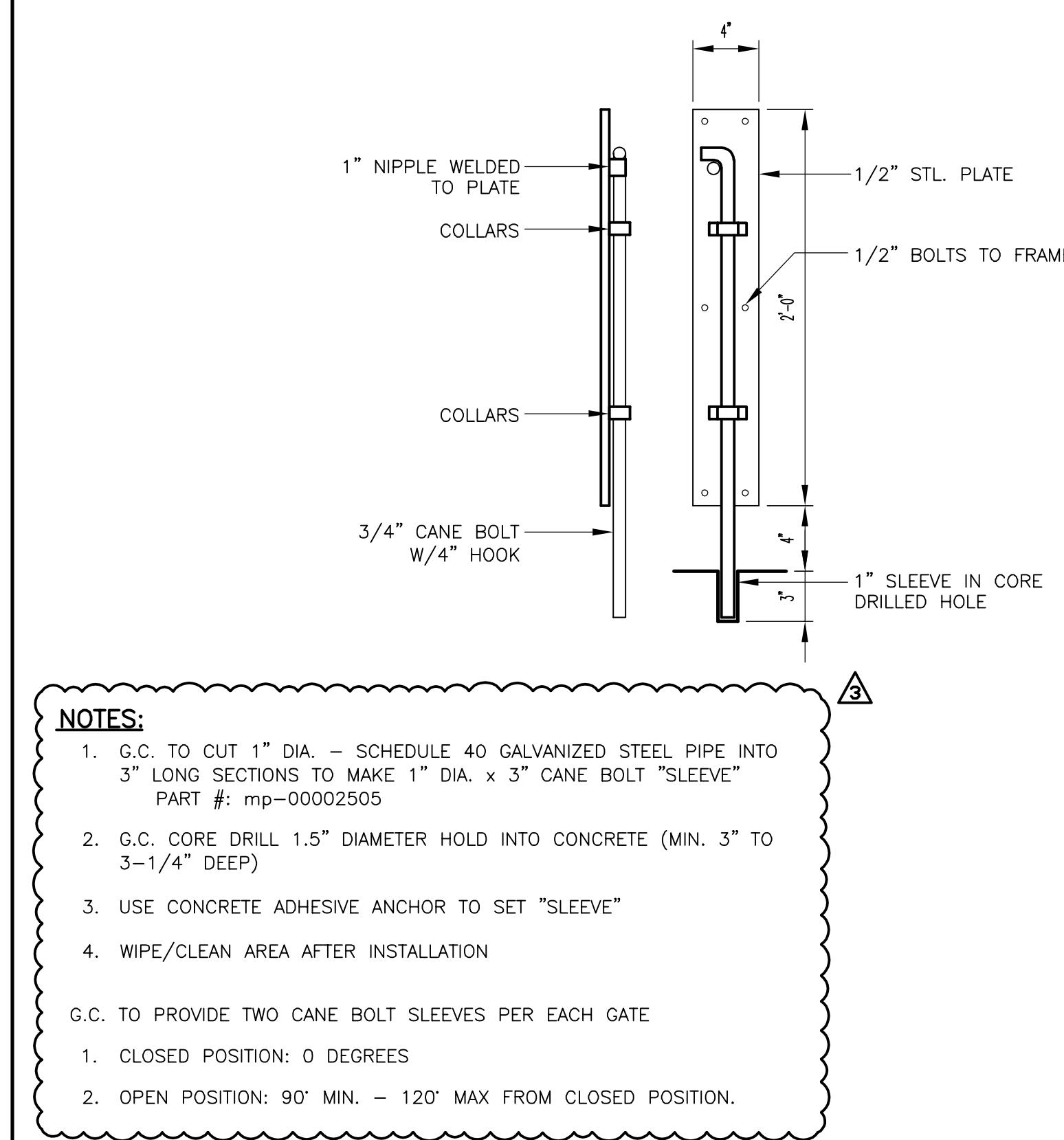
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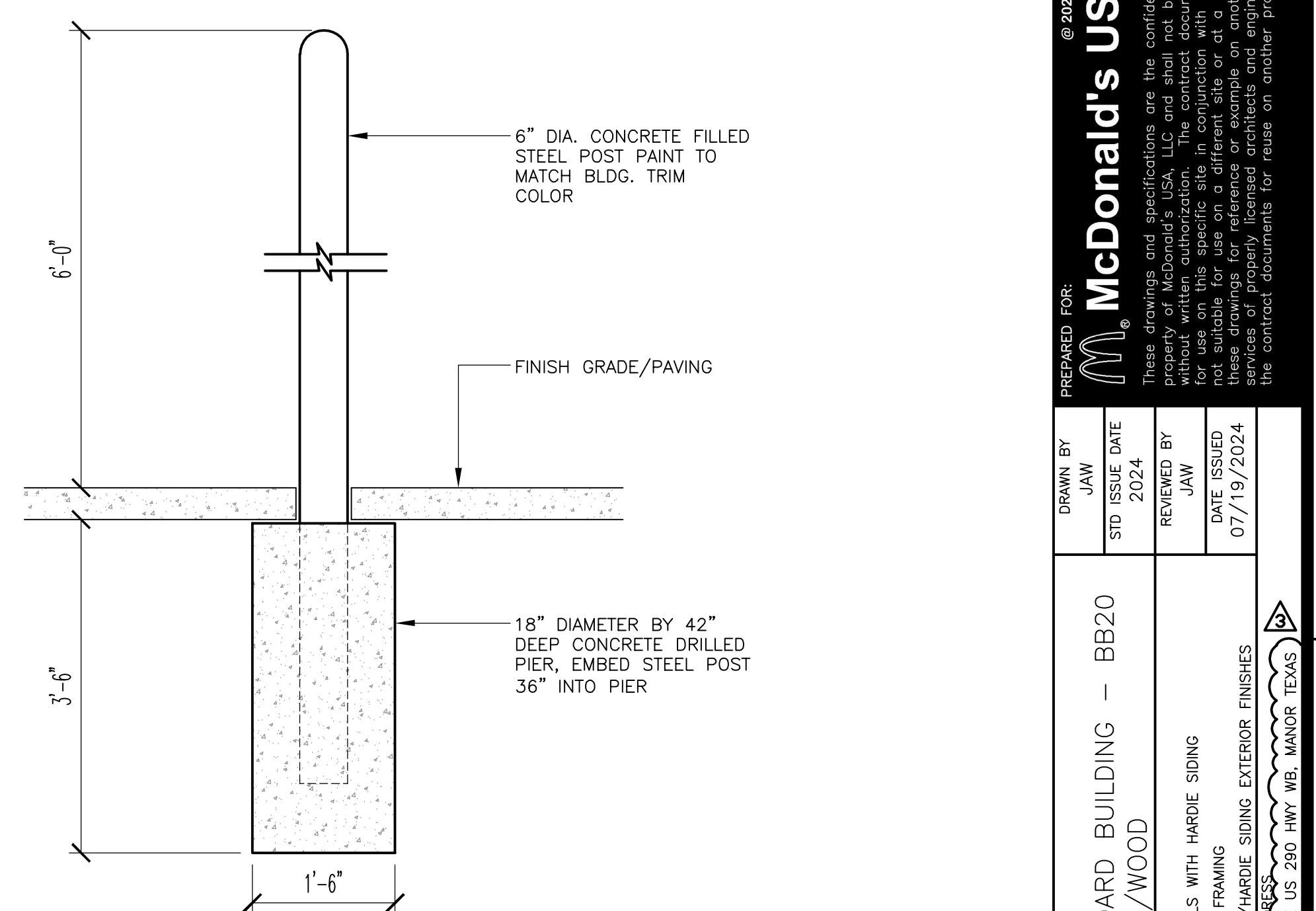
DUMP. ENCLOSURE



3 | GATE POST DETAIL SCALE 1-1/2"=1'-0"

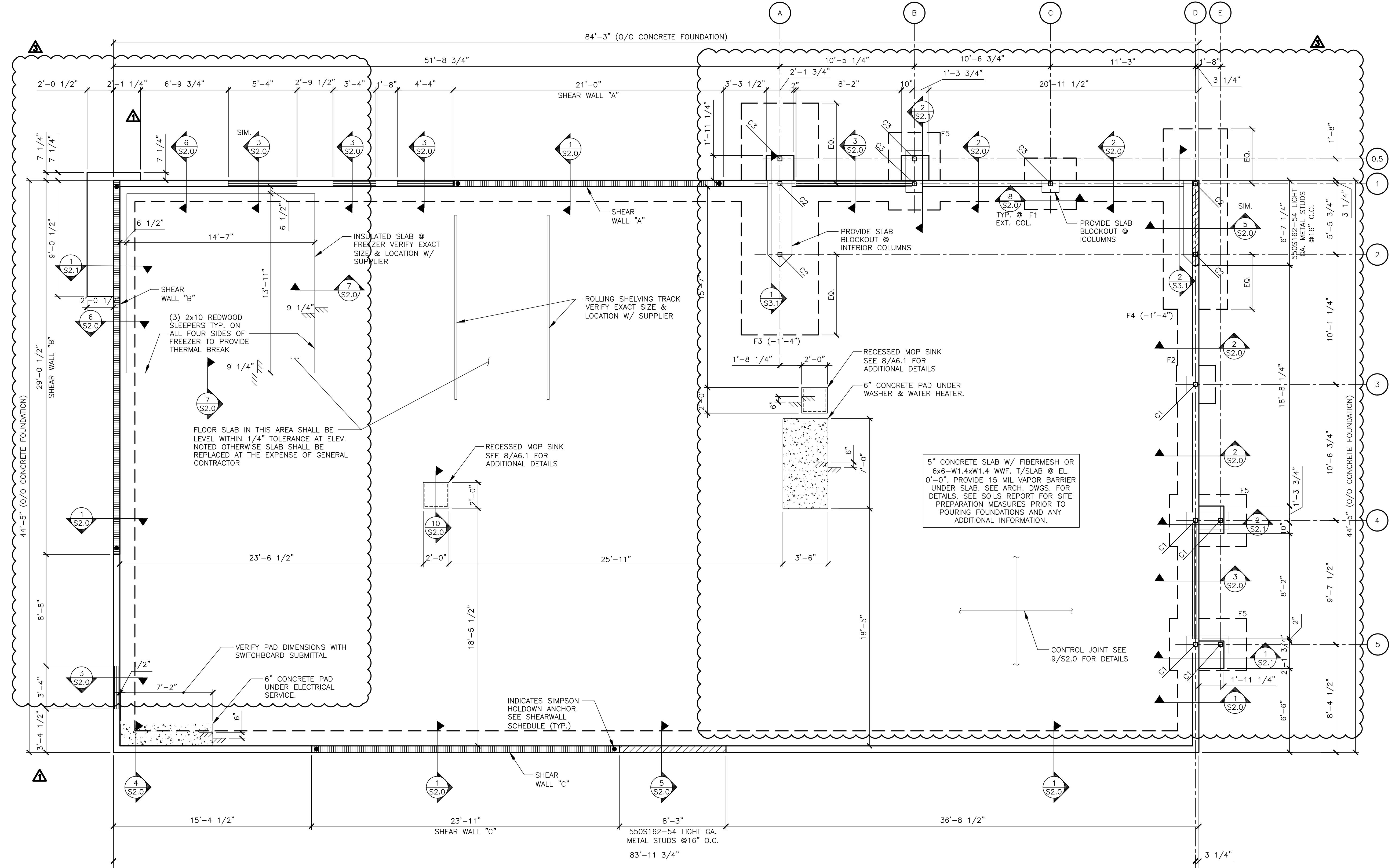


4 | CANE BOLT DETAIL SCALE 1-1/2"=1'-0"



5 | PIPE BOLLARD DETAIL SCALE 3/4"=1'-0"

SHEET NO.	TITLE	DRAWN BY	PREPARED FOR:
	2024 STANDARD BUILDING - BB20	JAW	McDonald's USA, LLC
	4584-WOOD/WOOD	STD ISSUE DATE	PREPARED BY:
		2024	@2025McDonaldsUSA,LLC
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		07/19/2024	JAW Architects, Inc. James Williams, Architect Phone 817-705-3387 Email:jameswilliams@jawsarchitect.com
		SITE ID	REV. DATE DESCRIPTION
		042-3548	BY

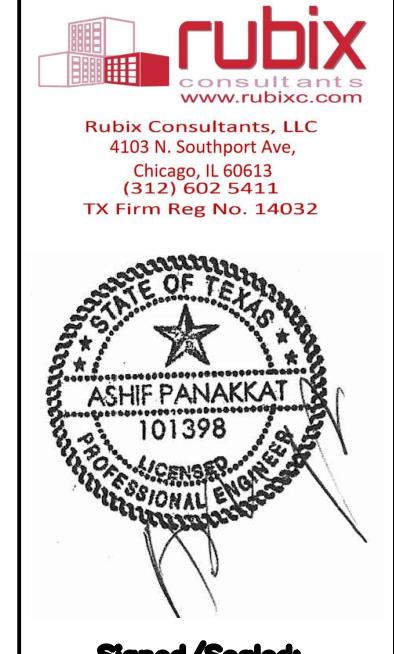


FOOTING SCHEDULE

MARK	SIZE	REINFORCING	TOP OF FTG
F1	4'-0"x4'-0"x2'-0"	5-#5 E.W.-B.	-0'-8"
F2	3'-0"x3'-0"x2'-0"	4-#5 E.W.-B.	-0'-8"
F3	6'-0"x18'-0"x3'-0"	14-#7 L.W.-T&B #6 @ 12" O.C. S.W.-T&B	SEE PLAN
F4	5'-0"x14'-0"x3'-0"	11-#7 L.W.-T&B #6 @ 12" O.C. S.W.-T&B	SEE PLAN
F5	4'-0"x6'-0"x2'-0"	5-#5 L.W.-B 7-#5 S.W.-B	-0'-8"

COLUMN & BASE PLATE SCHEDULE

MARK	MEMBER	SHAPE	BASE PLATE	REMARKS
C1	HSS4x4x1/4	#	A	EXTEND TO ROOF
C2	HSS4x4x5/16	#	B	BRACED FRAME
C3	HSS4x4x5/16	#	A	EXTEND TO ROOF



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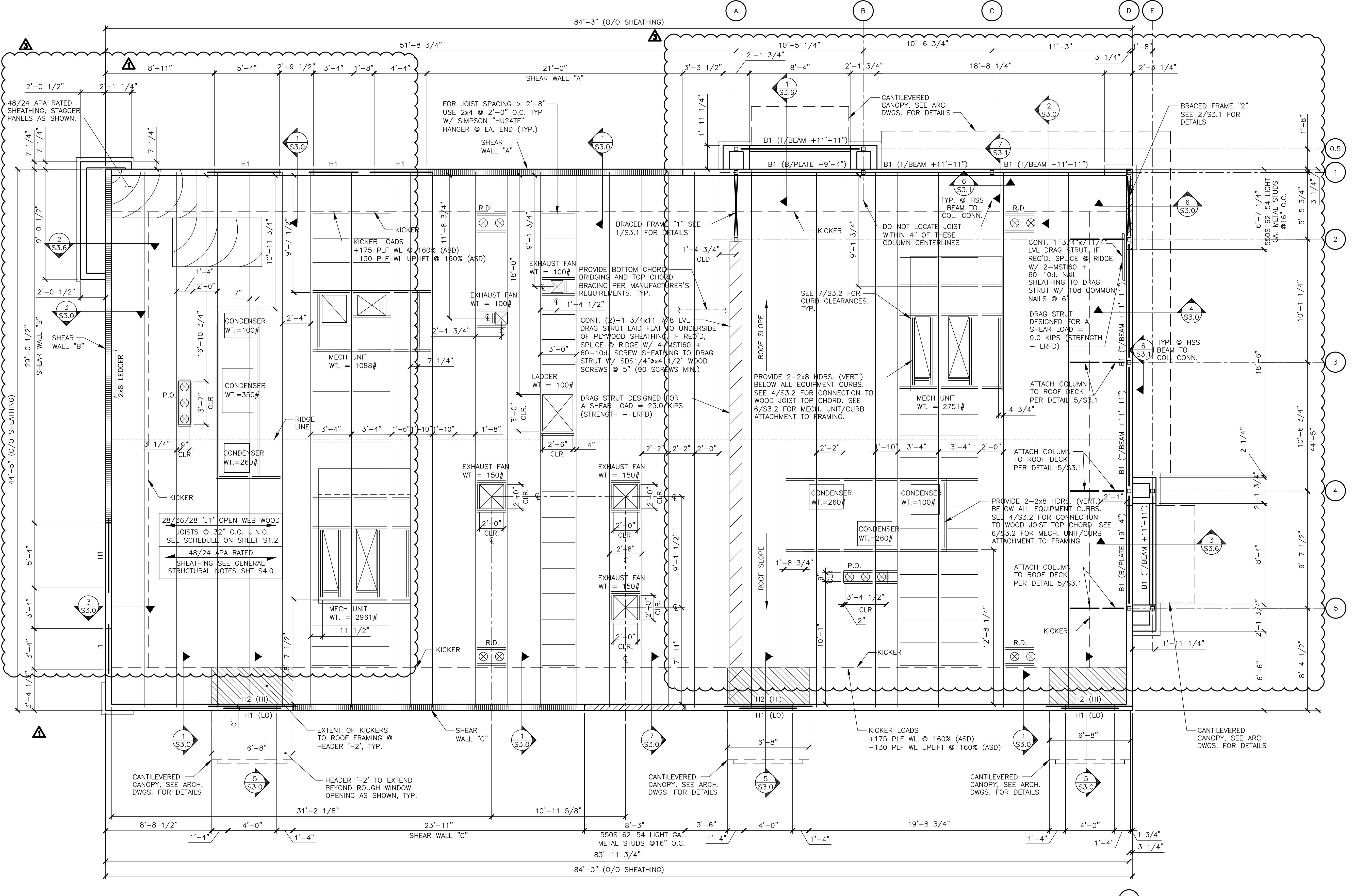
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JAWA 24-0107

S1.0

FOUNDATION PLAN

SHEET NO.	TITLE	MR	DRAWN BY
042-3548	2024 STANDARD BUILDING - BB20		STD ISSUE DATE 2024
	4584-WOOD/WOOD		REVIEWED BY AP
			DATE ISSUED 07/19/2024
			SITE ID S1.0



BEAM SCHEDULE

MARK	MEMBER	SHAPE	SUPPORT	REMARKS
B1	HSS16x4x1/4 LLV	□	1/2" END PLATE	SEE DETAIL 6/S3.1

HEADER SCHEDULE

MARK	MEMBER	SHAPE	BEARING
H1	5 1/4"x9 1/2" LVL	☒	SEE DETAIL 2/S3.2
H2	5 1/4"x11 7/8" LVL	☒	SEE DETAIL 5/S3.0 & 2/S3.2

JOIST SCHEDULE

MARK	LIVE/ROOF SNOW LOAD	DEPTH	MANUFACTURER & SERIES
J1	20/5	28"/36"/28"	REBUILT "RED-S"

S1.2
FRAMING PLAN

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Signed/Sealed:
07/30/2025

REV	DATE	DESCRIPTION
1	09/20/24	NCD OC COMMENTS & FOUNDATION, PLUMBING, AND DOOR UPDATES
2	12/20/24	ELEVATIONS REDESIGN & PROTO UPDATE
3	07/24/25	SQUARED OFF BACK & ADDED V/H ARTICULATIONS & UPDATED ADDRESS

DRAWN BY
MR
STD ISSUE DATE
2024

REVIEWED BY
AP
DATE ISSUED
07/19/2024

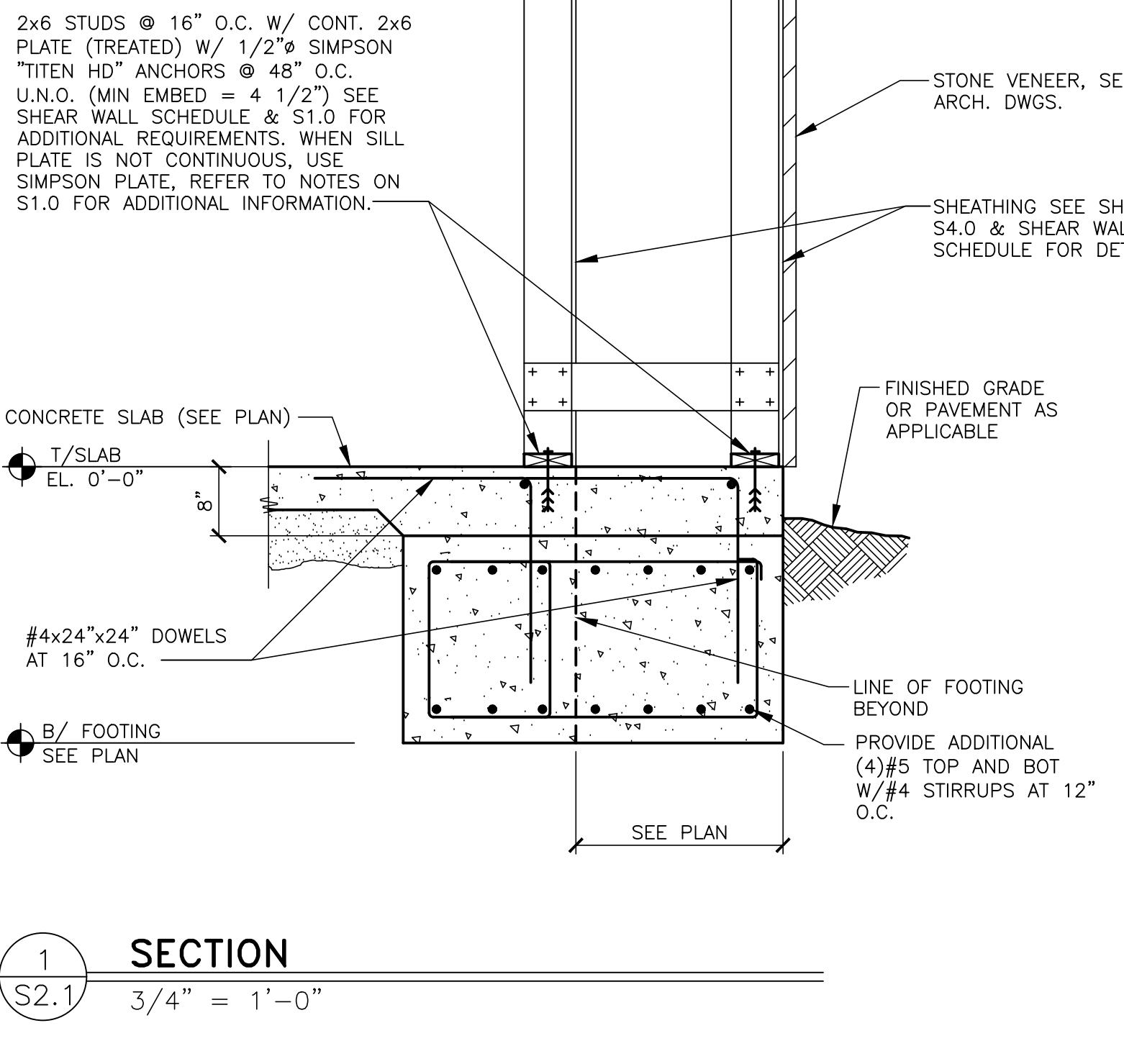
JAWA 24-0107
4584-STANDARD BUILDING - BB20
WOOD/BATTEN/METAL/HARDIE SIDING EXTERIOR FINISHES
SHEET NO. 1/32

042-3548
JAWA 24-0107
4584-WOOD/HARDIE SIDING

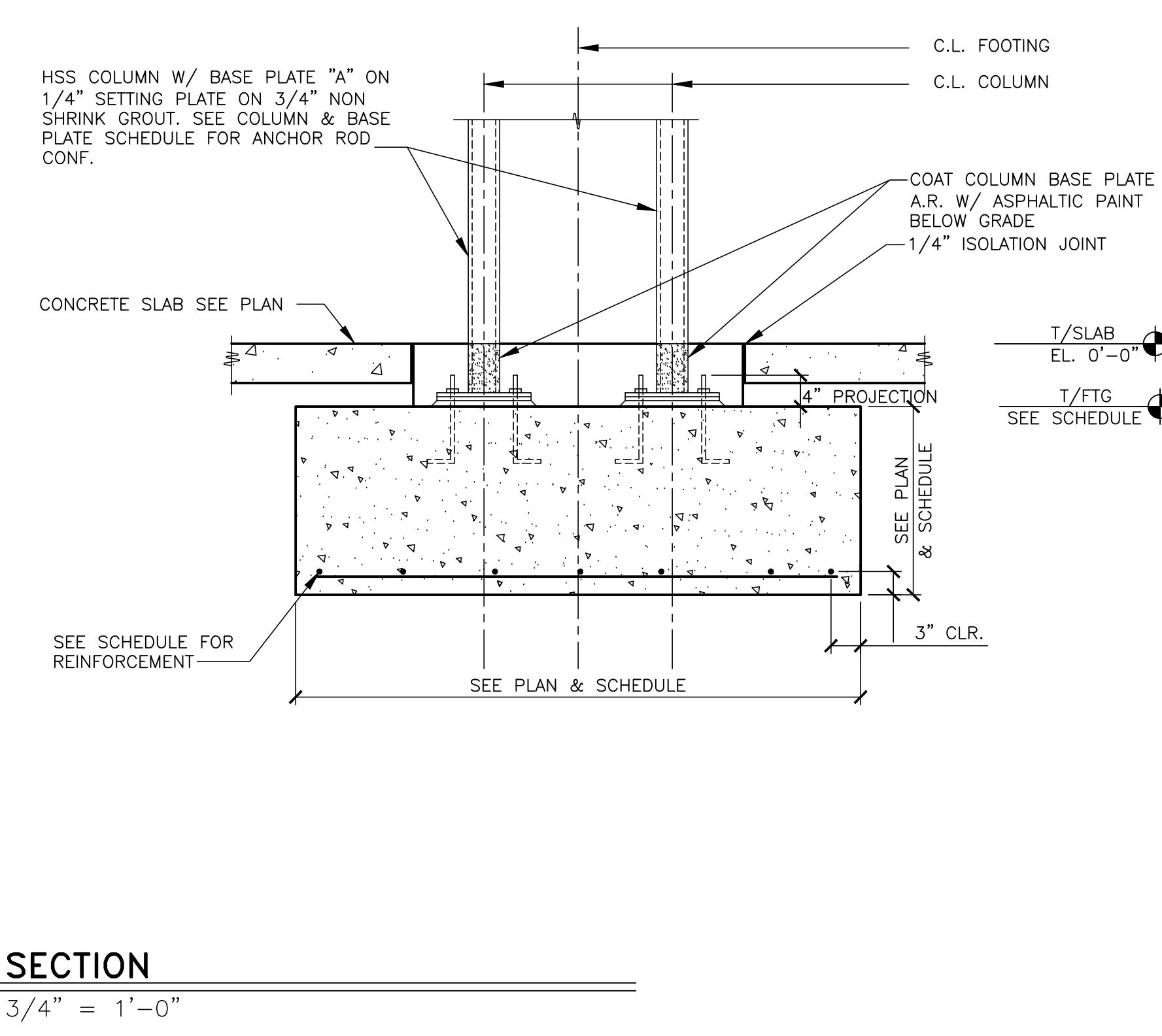
NOTE: SEE DETAIL 4/S3.2 FOR JOIST DETAILS AND SUPPLIER INFORMATION

SECTION		SECTION		SECTION		SECTION AT PAD		SECTION		SECTION		ISOLATED COLUMN FOOTING DETAIL		TYPICAL CORNER BAR DETAIL	
1 S2.0	3/4" = 1'-0"	2 S2.0	3/4" = 1'-0"	3 S2.0	3/4" = 1'-0"	4 S2.0	3/4" = 1'-0"	5 S2.0	3/4" = 1'-0"	6 S2.0	3/4" = 1'-0"	7 S2.0	3/4" = 1'-0"	8 S2.0	3/4" = 1'-0"
 SEE SECTION 1/S2.0 FOR ADDITIONAL INFORMATION	 SEE SECTION 1/S2.0 FOR ADDITIONAL INFORMATION	 SEE SECTION 1/S2.0 FOR ADDITIONAL INFORMATION	 SEE SECTION 1/S2.0 FOR ADDITIONAL INFORMATION	 SEE SECTION 1/S2.0 FOR ADDITIONAL INFORMATION	 SEE SECTION 1/S2.0 & 7/S2.0 FOR ADDITIONAL INFORMATION	 SEE FOUNDATION PLAN FOR DIMENSION	 SEE FOUNDATION PLAN FOR DIMENSION	 SEE SECTION 1/S2.0 FOR ADDITIONAL INFORMATION							
2x6 STUDS @ 16" O.C. W/ CONT. 2x6 PLATE (TREATED) W/ 1/2" SIMPSON "TITEN HD" ANCHORS @ 48" O.C. U.N.O. (MIN EMBED = 4 1/2") SEE SHEAR WALL SCHEDULE & S1.0 FOR ADDITIONAL REQUIREMENTS. WHEN SILL PLATE IS NOT CONTINUOUS, USE SIMPSON PLATE, REFER TO NOTES ON S1.0 FOR ADDITIONAL INFORMATION.	STONE VENEER, SEE ARCH. DWGS. SHEATHING SEE SHEET S4.0 & SHEAR WALL SCHEDULE FOR DETAILS	CONT. 2-2x6 PLATE T/ DOUBLE PLATE SEE ARCH DWGS UNISTRUT "P1000SL" CHANNEL @ 48" O.C. W/(3) 3/8" LAG BOLTS 2x6 STUDS @16" O.C. T/SLAB EL. 0'-0" B/ FOOTING SEE PLAN 3" CLR. TYPICAL #4x24" DOWELS AT 48" O.C. (16" O.C. AT DOOR OPENINGS) CONT. #5 ALONG PERIMETER OF SLAB EXTERIOR FACE OF FOOTING TO ALIGN WITH EXTERIOR FACE OF WALL SHEATHING 3-#5 CONT. TOP AND BTM W/#3 TIES AT 36" O.C.	SHEATHING SEE SHEET S4.0 FOR DETAILS STONE VENEER, SEE ARCH DWGS. FOR EXTERIOR FINISHES 2x6 STUDS @ CHANNEL LOCATIONS T/SLAB EL. 0'-0" B/ FOOTING SEE PLAN FOOTING SHALL BE PLACED BELOW MAX. FROST DEPTH OR AS REQ'D TO ATTAIN ALLOWABLE SOIL BEARING CAPACITY.	1/2" COMPRESSIBLE JOINT FILLER CONCRETE SLAB SEE PLAN #4 DOWELS @ 16" O.C. @ DOORS TYP. B/ FOOTING SEE PLAN STORFRONT SYSTEM/DOOR SEE ARCH. DWGS. FOR ADDITIONAL INFORMATION ALIGN EXTERIOR FACE OF STOREFRONT W/ JOINT FILLER SIDEWALK SEE SITE PLAN FOR DETAILS	RAISED CONCRETE PAD, SEE PLAN #3 BENT DOWEL @ 3'-0" O.C. EACH WAY, SET PRE DRILLED HOLES FILLED WITH SIMPSON SEI-XP EPOXY (3" MIN EMBED) 6x6-W1.4xW1.4 WWF T/SLAB EL. 0'-0" B/ FOOTING SEE PLAN FINISHED GRADE OR PAVEMENT AS APPLICABLE STONE VENEER, SEE ARCH DWGS. FOR EXTERIOR FINISHES	SEE SECTION 1/S2.0 FOR ADDITIONAL INFORMATION	SEE SECTION 1/S2.0 FOR ADDITIONAL INFORMATION	SEE SECTION 1/S2.0 FOR ADDITIONAL INFORMATION	SEE SECTION 1/S2.0 FOR ADDITIONAL INFORMATION	SEE SECTION 1/S2.0 FOR ADDITIONAL INFORMATION	SEE SECTION 1/S2.0 FOR ADDITIONAL INFORMATION	SEE SECTION 1/S2.0 FOR ADDITIONAL INFORMATION	SEE SECTION 1/S2.0 FOR ADDITIONAL INFORMATION	SEE SECTION 1/S2.0 FOR ADDITIONAL INFORMATION	SEE SECTION 1/S2.0 FOR ADDITIONAL INFORMATION
rubix consultants, LLC Rubix Consultants, LLC 4030 N. Cicero Ave. Chicago, IL 60613 (312) 602-5411 TX Firm Reg No. 14032															
 ASHIP PANAKAT LICENSURE 101398 SIGNED/SERIALIZED 07/30/2025															
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9 S2.0	N.T.S.	10 S2.0	3/4" = 1'-0"	11 S2.0	N.T.S.										
12 S2.0	3/4" = 1'-0"	13 S2.0	3/4" = 1'-0"	14 S2.0	3/4" = 1'-0"	15 S2.0	3/4" = 1'-0"	16 S2.0	3/4" = 1'-0"	17 S2.0	3/4" = 1'-0"	18 S2.0	3/4" = 1'-0"	19 S2.0	3/4" = 1'-0"
20 S2.0	3/4" = 1'-0"	21 S2.0	3/4" = 1'-0"	22 S2.0	3/4" = 1'-0"	23 S2.0	3/4" = 1'-0"	24 S2.0	3/4" = 1'-0"	25 S2.0	3/4" = 1'-0"	26 S2.0	3/4" = 1'-0"	27 S2.0	3/4" = 1'-0"
28 S2.0	3/4" = 1'-0"	29 S2.0	3/4" = 1'-0"	30 S2.0	3/4" = 1'-0"	31 S2.0	3/4" = 1'-0"	32 S2.0	3/4" = 1'-0"	33 S2.0	3/4" = 1'-0"	34 S2.0	3/4" = 1'-0"	35 S2.0	3/4" = 1'-0"
36 S2.0	3/4" = 1'-0"	37 S2.0	3/4" = 1'-0"	38 S2.0	3/4" = 1'-0"	39 S2.0	3/4" = 1'-0"	40 S2.0	3/4" = 1'-0"	41 S2.0	3/4" = 1'-0"	42 S2.0	3/4" = 1'-0"	43 S2.0	3/4" = 1'-0"
44 S2.0	3/4" = 1'-0"	45 S2.0	3/4" = 1'-0"	46 S2.0	3/4" = 1'-0"	47 S2.0	3/4" = 1'-0"	48 S2.0	3/4" = 1'-0"	49 S2.0	3/4" = 1'-0"	50 S2.0	3/4" = 1'-0"	51 S2.0	3/4" = 1'-0"
52 S2.0	3/4" = 1'-0"	53 S2.0	3/4" = 1'-0"	54 S2.0	3/4" = 1'-0"	55 S2.0	3/4" = 1'-0"	56 S2.0	3/4" = 1'-0"	57 S2.0	3/4" = 1'-0"	58 S2.0	3/4" = 1'-0"	59 S2.0	3/4" = 1'-0"
60 S2.0	3/4" = 1'-0"	61 S2.0	3/4" = 1'-0"	62 S2.0	3/4" = 1'-0"	63 S2.0	3/4" = 1'-0"	64 S2.0	3/4" = 1'-0"	65 S2.0	3/4" = 1'-0"	66 S2.0	3/4" = 1'-0"	67 S2.0	3/4" = 1'-0"
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76 S2.0	3/4" = 1'-0"	77 S2.0	3/4" = 1'-0"	78 S2.0	3/4" = 1'-0"	79 S2.0	3/4" = 1'-0"	80 S2.0	3/4" = 1'-0"	81 S2.0	3/4" = 1'-0"	82 S2.0	3/4" = 1'-0"	83 S2.0	3/4" = 1'-0"
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116 S2.0	3/4" = 1'-0"	117 S2.0	3/4" = 1'-0"	118 S2.0	3/4" = 1'-0"	119 S2.0	3/4" = 1'-0"	120 S2.0	3/4" = 1'-0"	121 S2.0	3/4" = 1'-0"	122 S2.0	3/4" = 1'-0"	123 S2.0	3/4" = 1'-0"
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140 S2.0	3/4" = 1'-0"	141 S2.0	3/4" = 1'-0"	142 S2.0	3/4" = 1'-0"	143 S2.0	3/4" = 1'-0"	144 S2.0	3/4" = 1'-0"	145 S2.0	3/4" = 1'-0"	146 S2.0	3/4" = 1'-0"	147 S2.0	3/4" = 1'-0"
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156 S2.0	3/4" = 1'-0"	157 S2.0	3/4" = 1'-0"	158 S2.0	3/4" = 1'-0"	159 S2.0	3/4" = 1'-0"	160 S2.0	3/4" = 1'-0"	161 S2.0	3/4" = 1'-0"	162 S2.0	3/4" = 1'-0"	163 S2.0	3/4" = 1'-0"
164 S2.0	3/4" = 1'-0"	165 S2.0	3/4" = 1'-0"	166 S2.0	3/4" = 1'-0"	167 S2.0	3/4" = 1'-0"	168 S2.0	3/4" = 1'-0"	169 S2.0	3/4" = 1'-0"	170 S2.0	3/4" = 1'-0"	171 S2.0	3/4" = 1'-0"
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188 S2.0	3/4" = 1'-0"	189 S2.0	3/4" = 1'-0"	190 S2.0	3/4" = 1'-0"	191 S2.0	3/4" = 1'-0"	192 S2.0	3/4" = 1'-0"	19					

SEE SECTION 1/S2.0 FOR ADDITIONAL INFORMATION



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



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

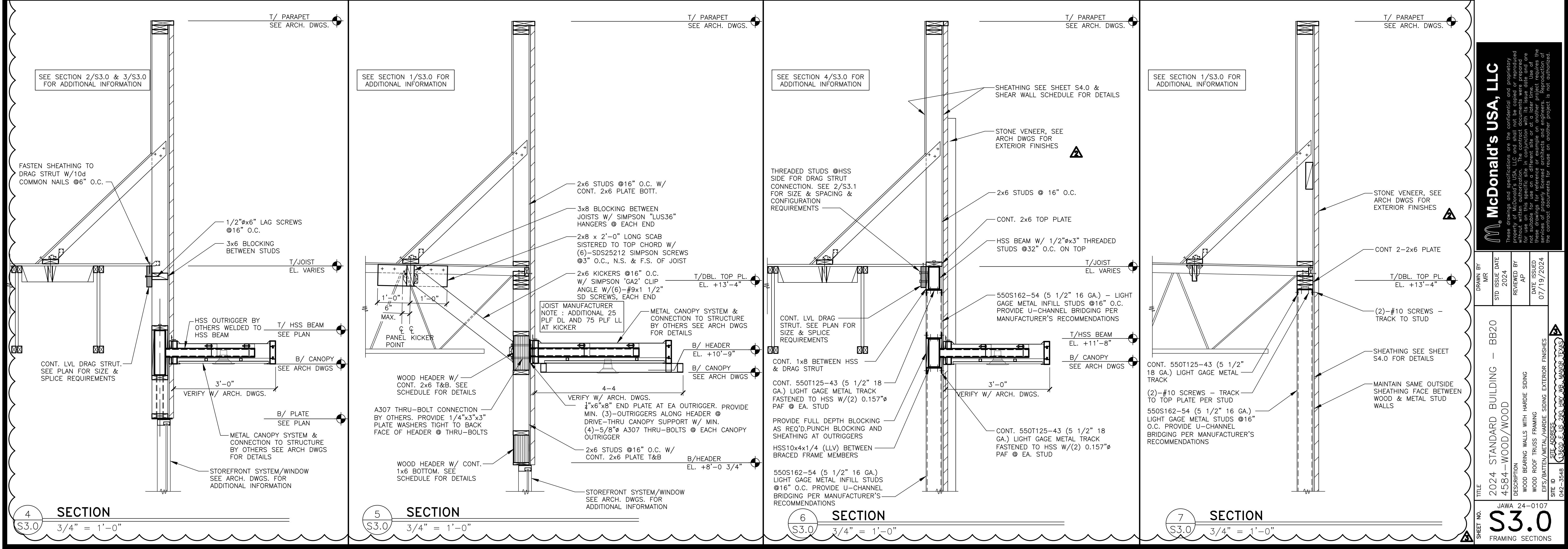
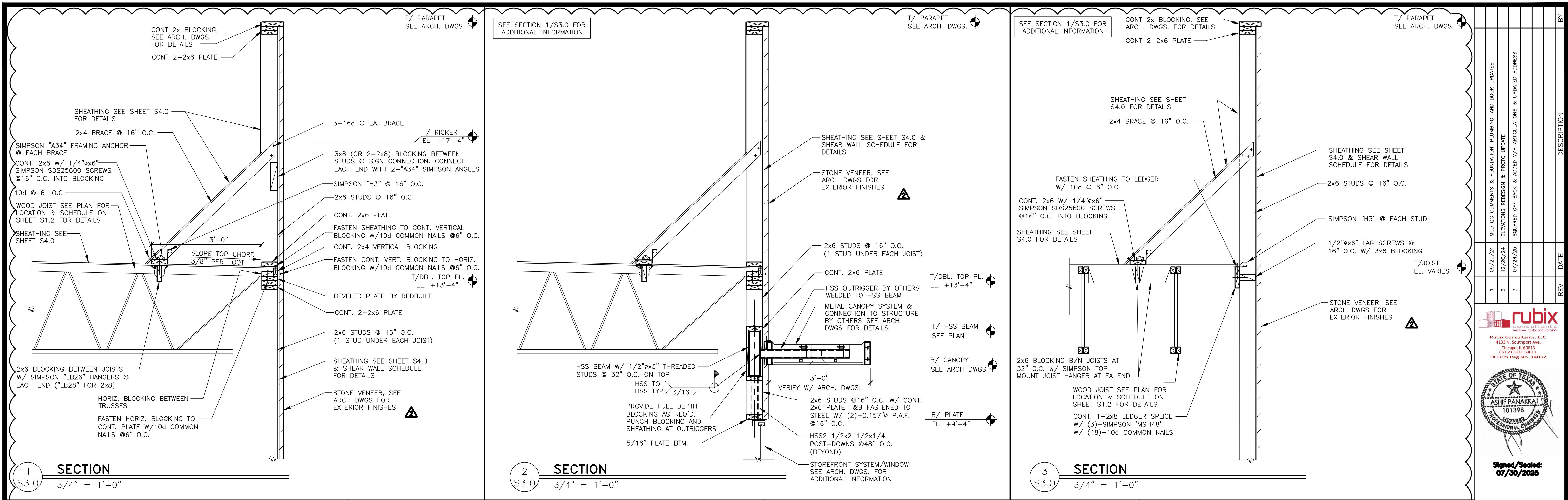
rubix
consultants, llc
4030 N. Cicero Ave.
Chicago, IL 60613
(312) 602-5411
TX Firm Reg No. 14032

Signed/Sealed:
07/30/2025

McDonald's USA, LLC

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SHEET NO.	TITLE	DRAWN BY	MR	STD ISSUE DATE
	2024 STANDARD BUILDING - BB20			2024
	4584-WOOD/WOOD			
	DESCRIPTION	REVIEWED BY	AP	DATE ISSUED
	WOOD BEARING WALLS WITH HARDE SIDING			07/19/2024
	WOOD ROOF TRUSS FRAMING			
	LIFES/BATTEN/HARDE SIDING EXTERIOR FINISHES			
	SITE ID			
	JAVA 24-0107			
	S2.1			
	4584-WOOD/WOOD			
	4042-3548			



McDonald's USA, LLC

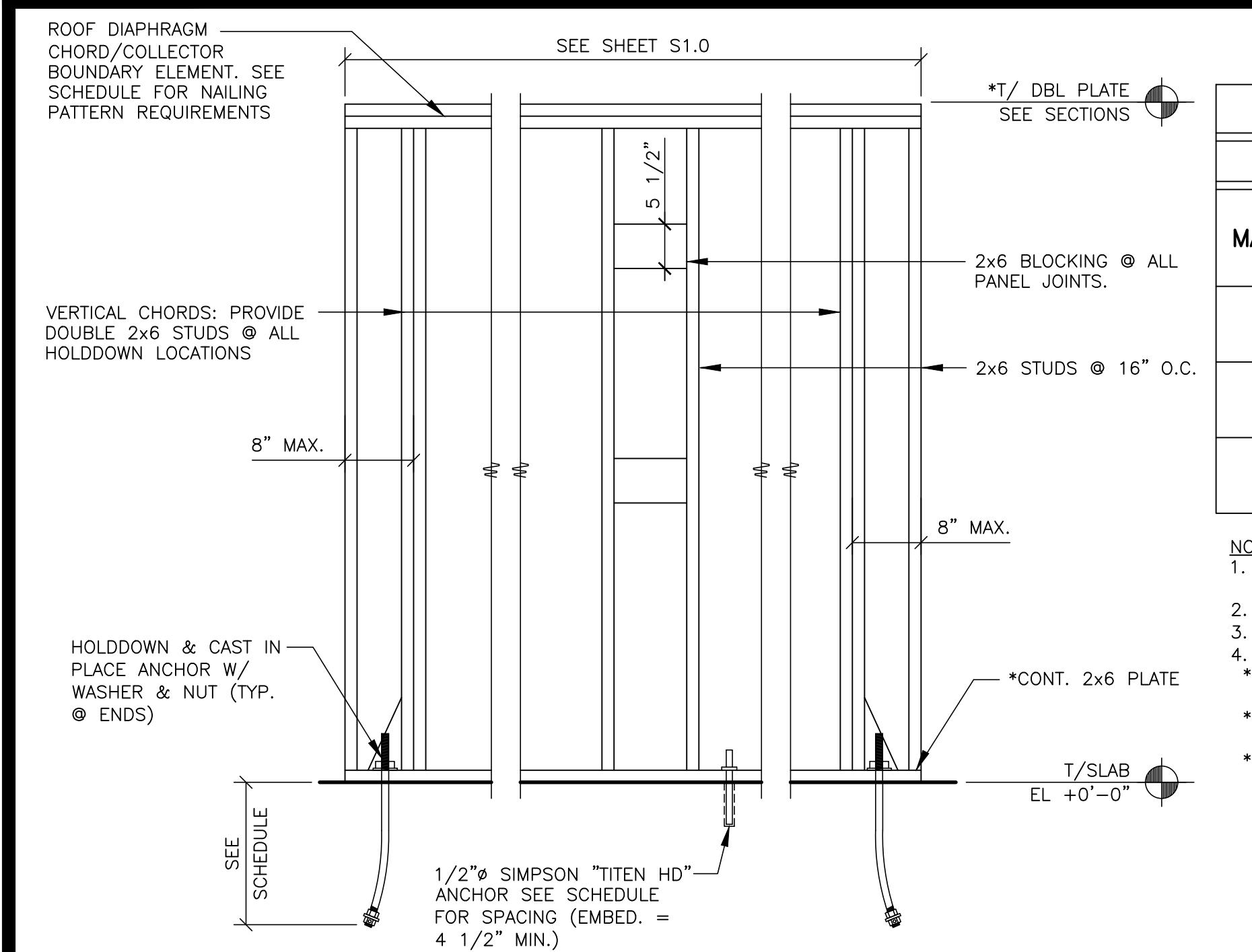
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DRAWN BY MR STD ISSUE DATE 2024-07-19/2024 DRAWN BY MR STD ISSUE DATE 2024-07-19/2024
REVIEWED BY AP REVIEWED BY AP
DATE ISSUED 07/19/2024 DATE ISSUED 07/19/2024
TITLE 2024 STANDARD BUILDING - BB20 TITLE 2024 STANDARD BUILDING - BB20
DESCRIPTION 4584-WOOD/WOOD DESCRIPTION 4584-WOOD/WOOD
WOOD BEARING WALLS WITH HARDIE SIDING WOOD BEARING WALLS WITH HARDIE SIDING
WOOD/PLASTER/METAL/HARDIE SIDING EXTERIOR FINISHES WOOD/PLASTER/METAL/HARDIE SIDING EXTERIOR FINISHES
SHEET ID 042-3548 SHEET ID 042-3548
SHEET NO. JAWA 24-0107 SHEET NO. JAWA 24-0107
S3.0 FRAMING SECTIONS S3.0 FRAMING SECTIONS

ASHIF PANAKKAT
LICENSED PROFESSIONAL ENGINEER
101398
STATE OF TEXAS
SIGNED/SEALED:
07/30/2025

rubix consultants
Rubix Consultants, LLC
4103 Northgate Drive, Suite A
Chicago, IL 60613
(312) 602-5411
TX Firm Reg No. 14032

SHEET NO.	TITLE	DRAWN BY	REVIEWED BY	DATE ISSUED
24-0107	2024 STANDARD BUILDING - BB20 4584-WOOD/WOOD	MR 2024	AP	07/19/2024
	WOOD BEARING WALLS WITH HARDIE SIDING WOOD ROOF TRUSS FRAMING LIFES/BATTEN/MEAL/HARDIE SIDING EXTERIOR FINISHES			
042-3548	JAWA			
6	HSS BEAM CONNECTION DETAIL S3.1 3/4" = 1'-0"			
7	COLUMN BRACING DETAIL S3.1 3/4" = 1'-0"			
8	NOT USED S3.1 3/4" = 1'-0"			
9	NOT USED S3.1 3/4" = 1'-0"			
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	Signed/Sealed: 07/30/2025			
	rubix consultants Rubix Consultants, LLC 4030 N. Cicero Ave. Chicago, IL 60613 (312) 602-5411 TX Firm Reg No. 14032			
	DESCRIPTION	REV	DATE	
1	NCD GC COMMENTS & FOUNDATION, PLUMBING, AND DOOR UPDATES	1	09/20/24	
2	ELEVATIONS REDESIGN & PROTO UPDATE	2	12/20/24	
3	SQUARED OFF BACK & ADDED V-BRACKETS & UPDATED ADDRESS F1554, G36 A.R. AS SHOWN	3	07/24/25	

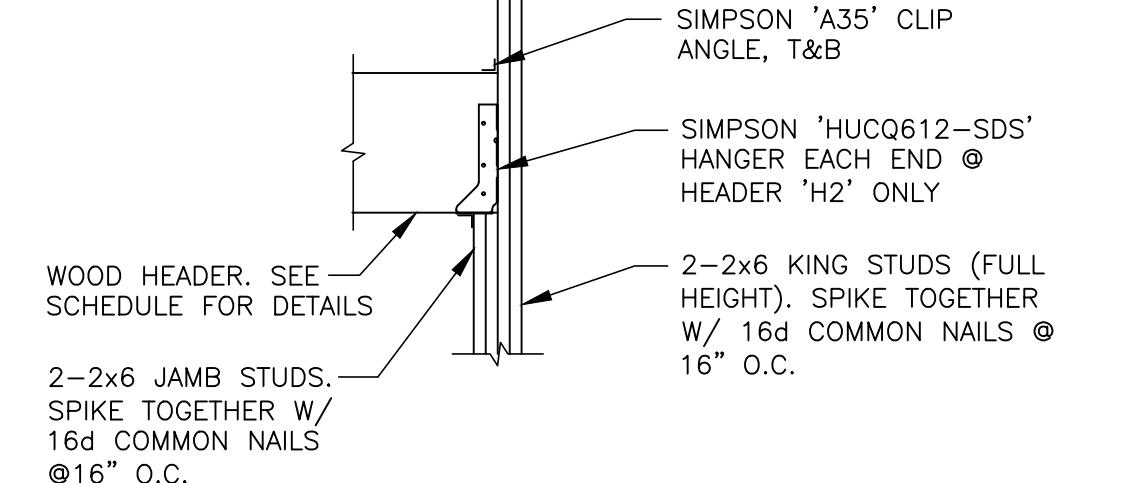


1 SHEAR WALL SCHEDULE
S3.2 N.T.S.

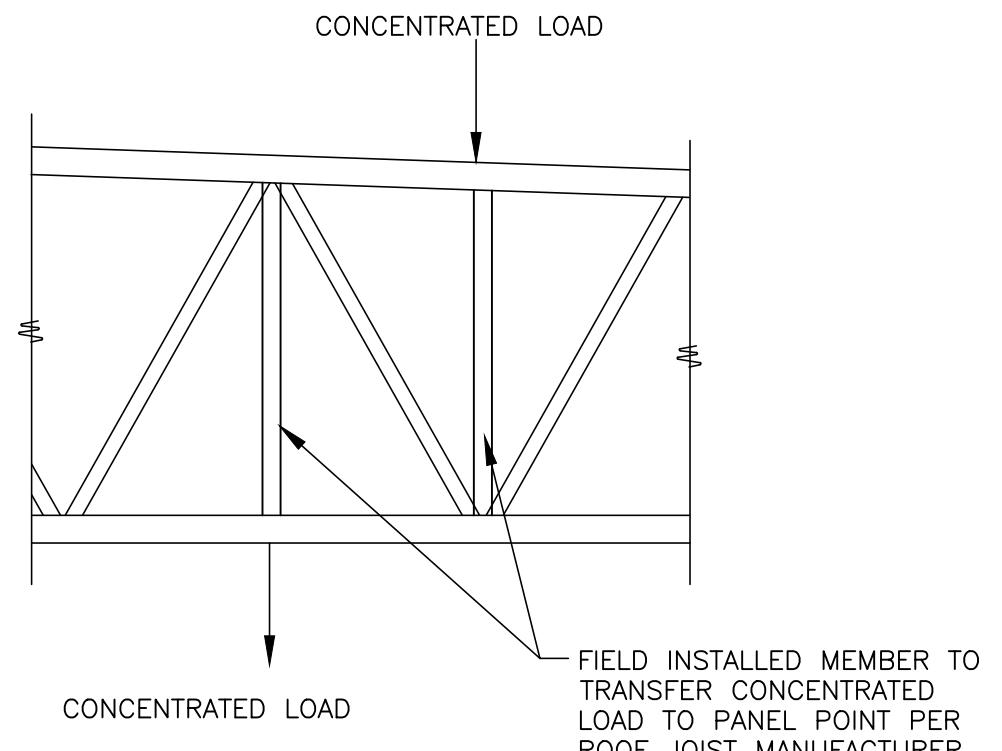
SHEAR WALL SCHEDULE						
WIND: 115 MPH (EXPOSURE C) SEISMIC: Sds = 7%, Sd1 = 5.6%						
MARK	SHEATHING	SHEATHING NAIL SIZE	SHEATHING NAIL** SPACING @ PANEL EDGES	HOLDDOWN*** ANCHORS	ANCHOR BOLT SPACING	REMARKS
A	1-15/32"	8d	6"	1-HDU5-SDS2.5 W/(1) SB5/8x24" PRECAST ANCHOR	40"	18" MIN. EMBED. ON HOLDDOWN ANCHORS.
B	1-15/32"	8d	6"	1-HDU5-SDS2.5 W/(1) SB5/8x24" PRECAST ANCHOR	32"	18" MIN. EMBED. ON HOLDDOWN ANCHORS.
C	1-15/32"	8d	6"	1-HDU5-SDS2.5 W/(1) SB5/8x24" PRECAST ANCHOR	40"	18" 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 DOWN ANCHORS TO VERTICAL MEMBER W/ 14-SDS1/4" x 2 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.
- *** HOLD DOWNS AND HOLD DOWN ANCHOR SYSTEMS PER SIMPSON STRONG TIE & SHALL BE INSTALLED PER MANUFACTURER SPECIFICATIONS.



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



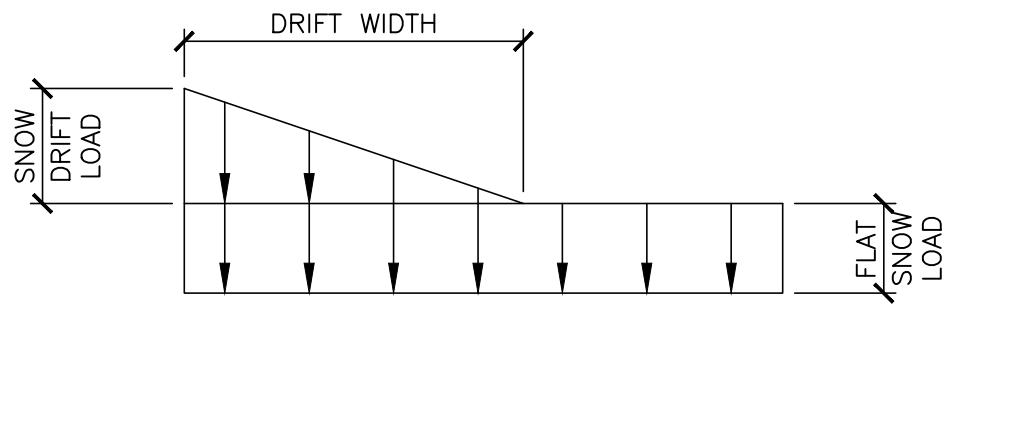
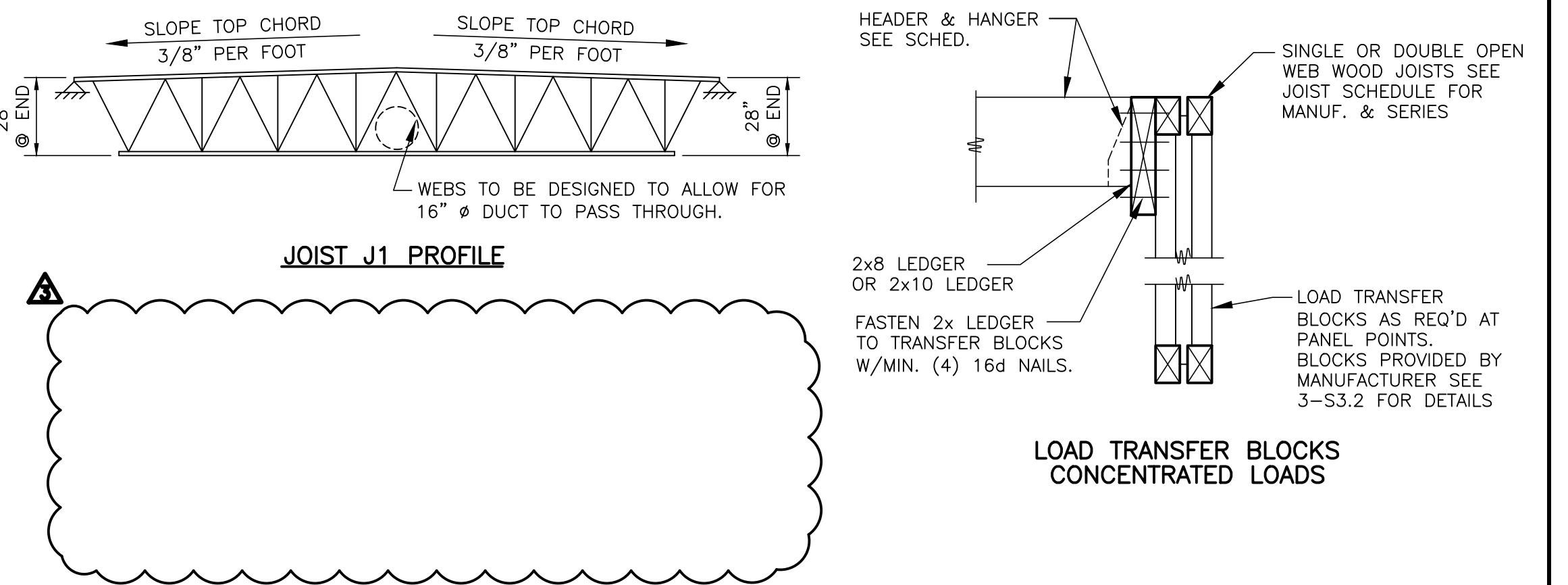
3 JOIST DETAIL @ POINT LOADS
S3.2 N.T.S.

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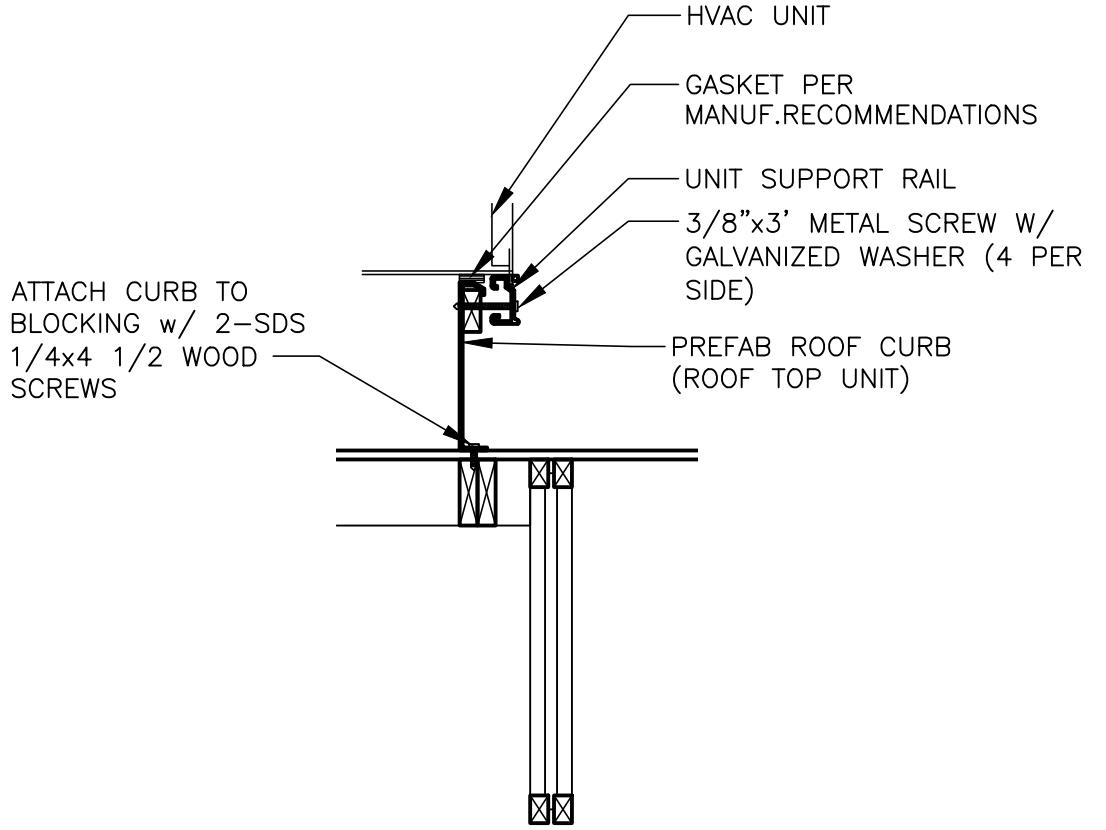
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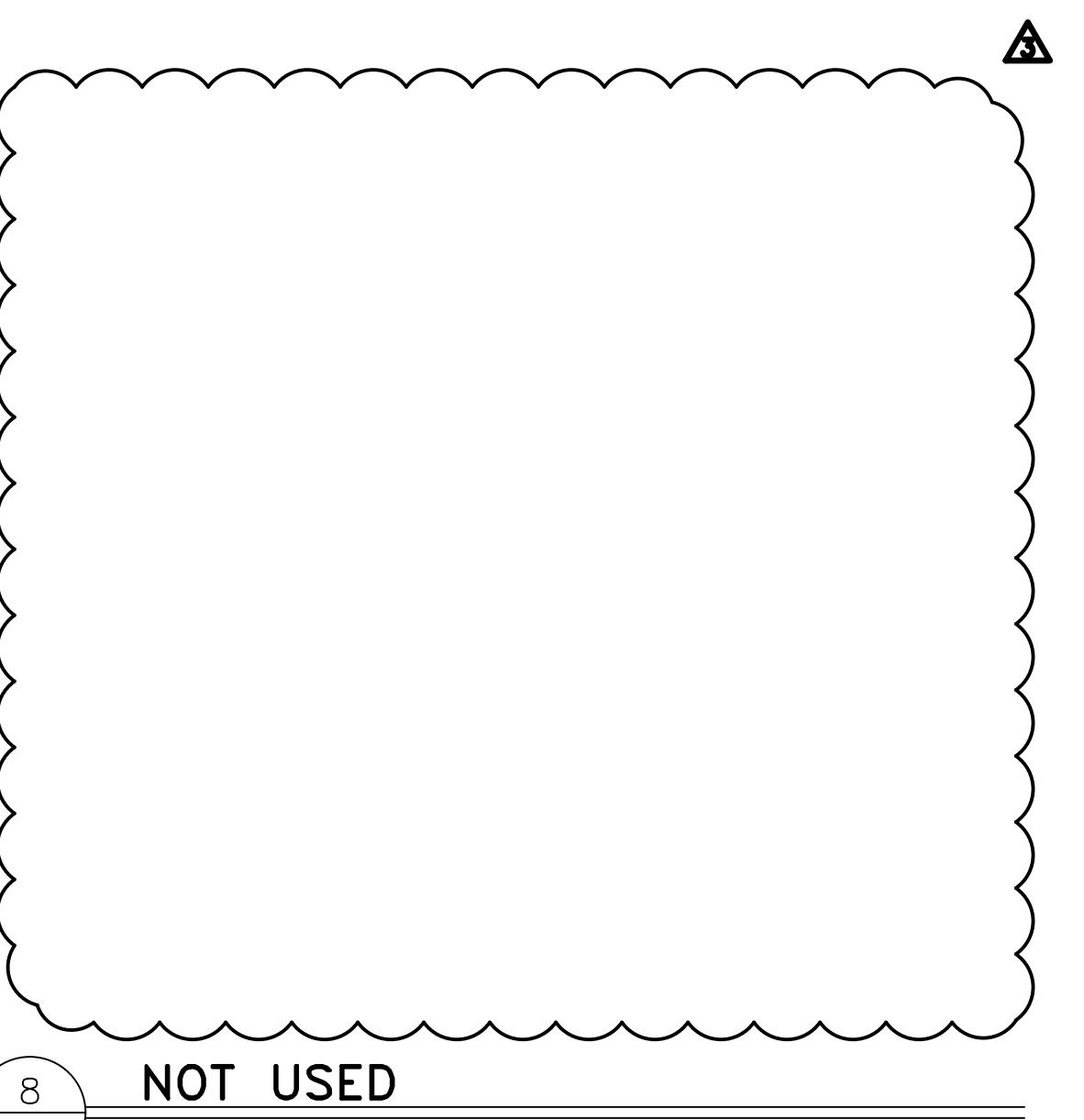


NOTE: SNOW DRIFT LOADS BASED ON NOMINAL UNFACTOR LOADS. SEE SHEET S4.0 FOR ADDITIONAL INFORMATION.

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



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

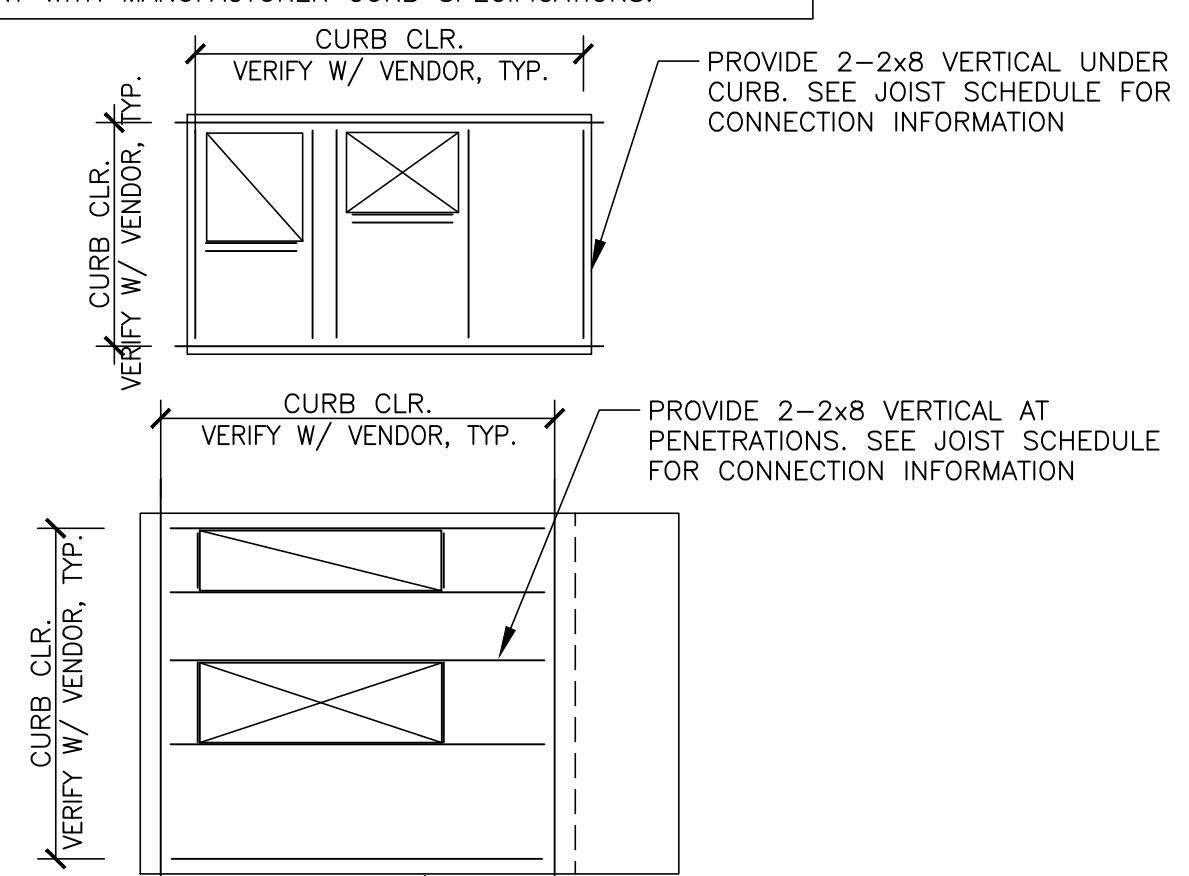


8 NOT USED
S3.2 N.T.S.

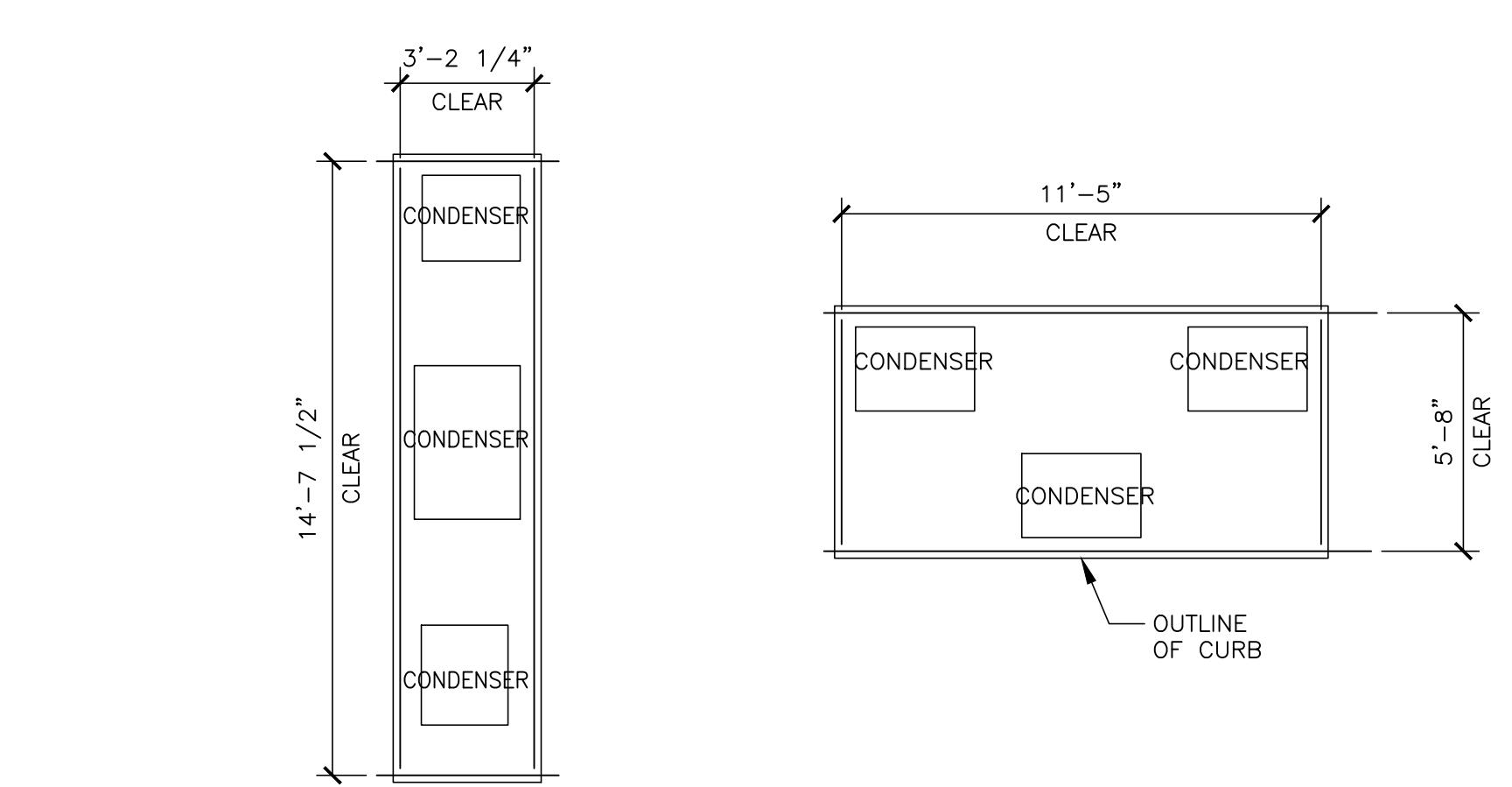
1. FOR NATIONAL ACCOUNT PACKAGE & PRICING CONTACT REDBUILT @ 1-866-859-6757
 2. JOIST MFGR. TO VERIFY SIZE AT HVAC ROOF TOP UNITS.
- | | |
|--------|----------|
| HEADER | HANGER |
| 2x6 | LUS26 |
| 2-2x6 | LUS26-2 |
| 2x8 | LUS28 |
| 2-2x8 | LUS28-2 |
| 2x10 | LUS210 |
| 2-2x10 | LUS210-2 |
- FOR OPENINGS < 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 (ULTIMATE) - 8 PSF SERVICE (ASD: 0.6D + 0.6W)

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

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.

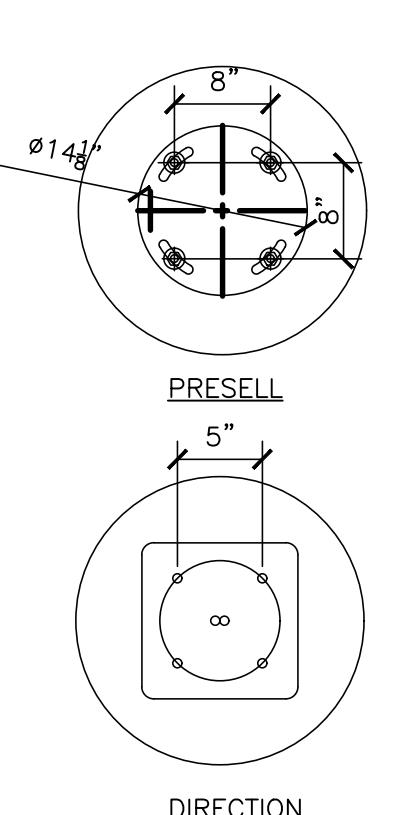


7 ROOF TOP UNIT CLEARANCES
S3.2 1/4" = 1'-0"

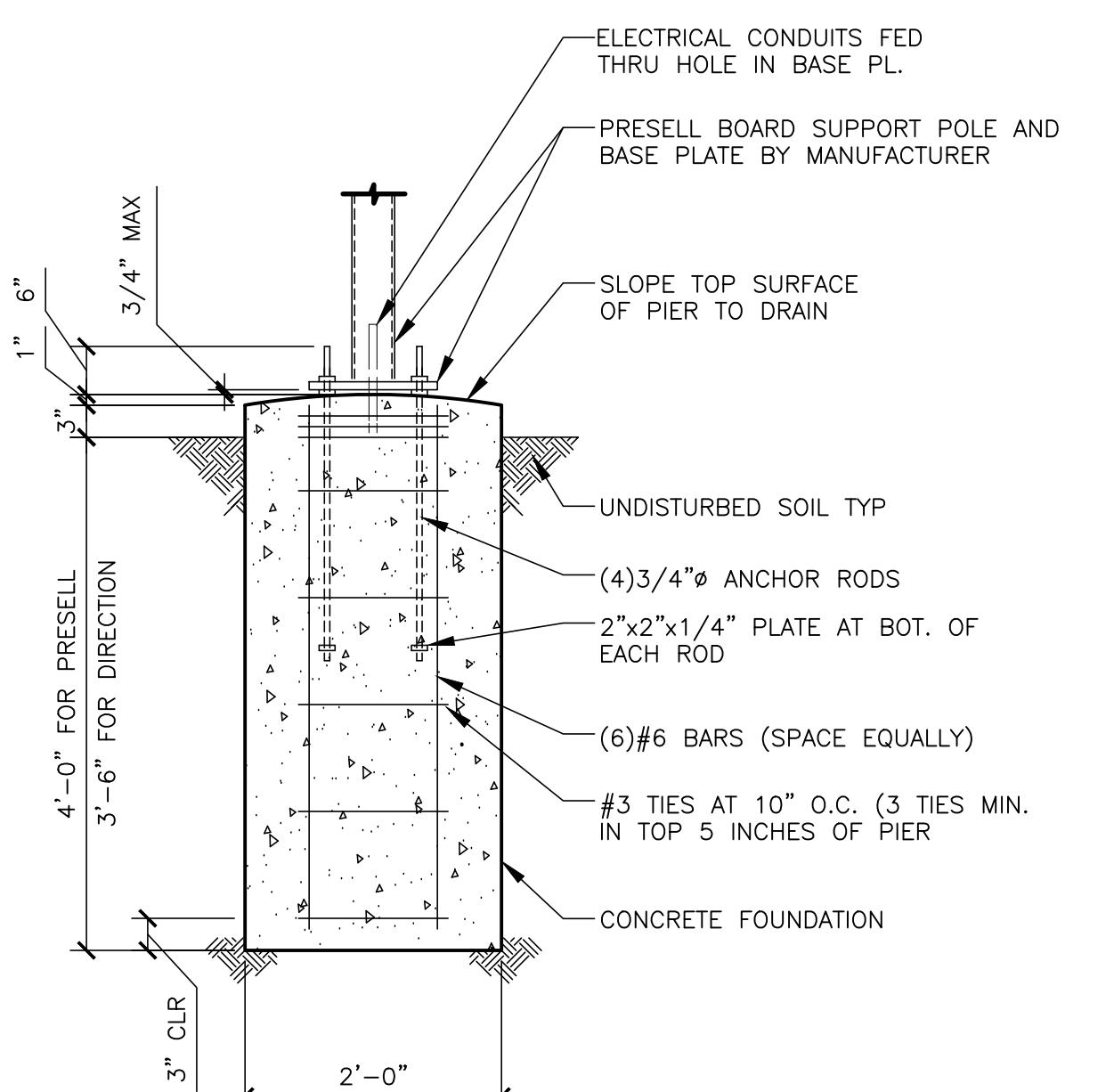


8 NOT USED
S3.2 N.T.S.

SHEET NO.	TITLE	DRAWN BY
4042-3548	2024 STANDARD BUILDING - BB20	MR
	4584-WOOD/WOOD	STD ISSUE DATE
		2024
	WOOD BEARING WALLS WITH HARDE SIDING	REVIEWED BY
	WOOD ROOF TRUSS FRAMING	AP
	LEFS/BATTEN/MEAL/HARDIE SIDING EXTERIOR FINISHES	DATE ISSUED
		07/19/2024
SITE ID	JAWA 24-0107	
	DETAILS	



ANCHOR BOLT PATTERN



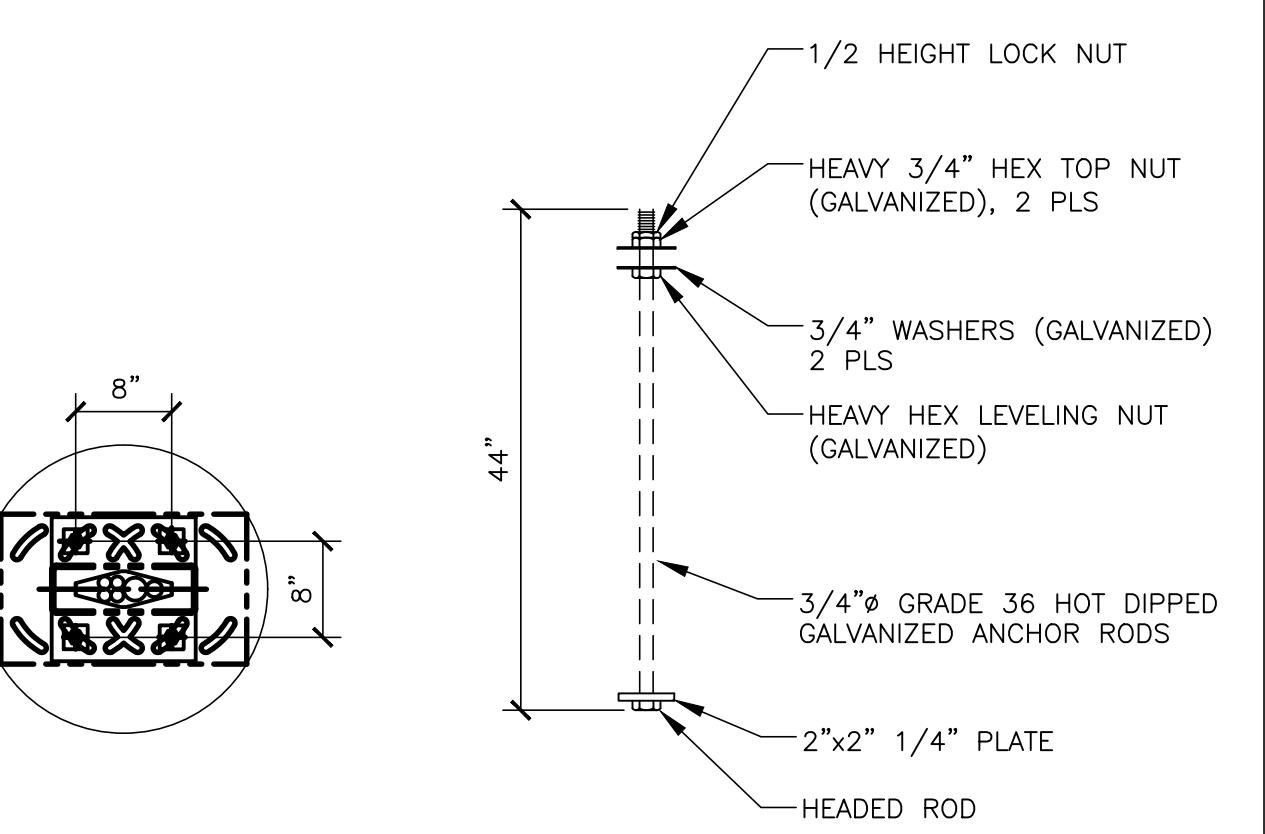
PIER SECTION DETAIL

1 FOUNDATION FOR PRESELL & DIRECTION BOARD
S3.3 $3/4'' = 1'-0''$

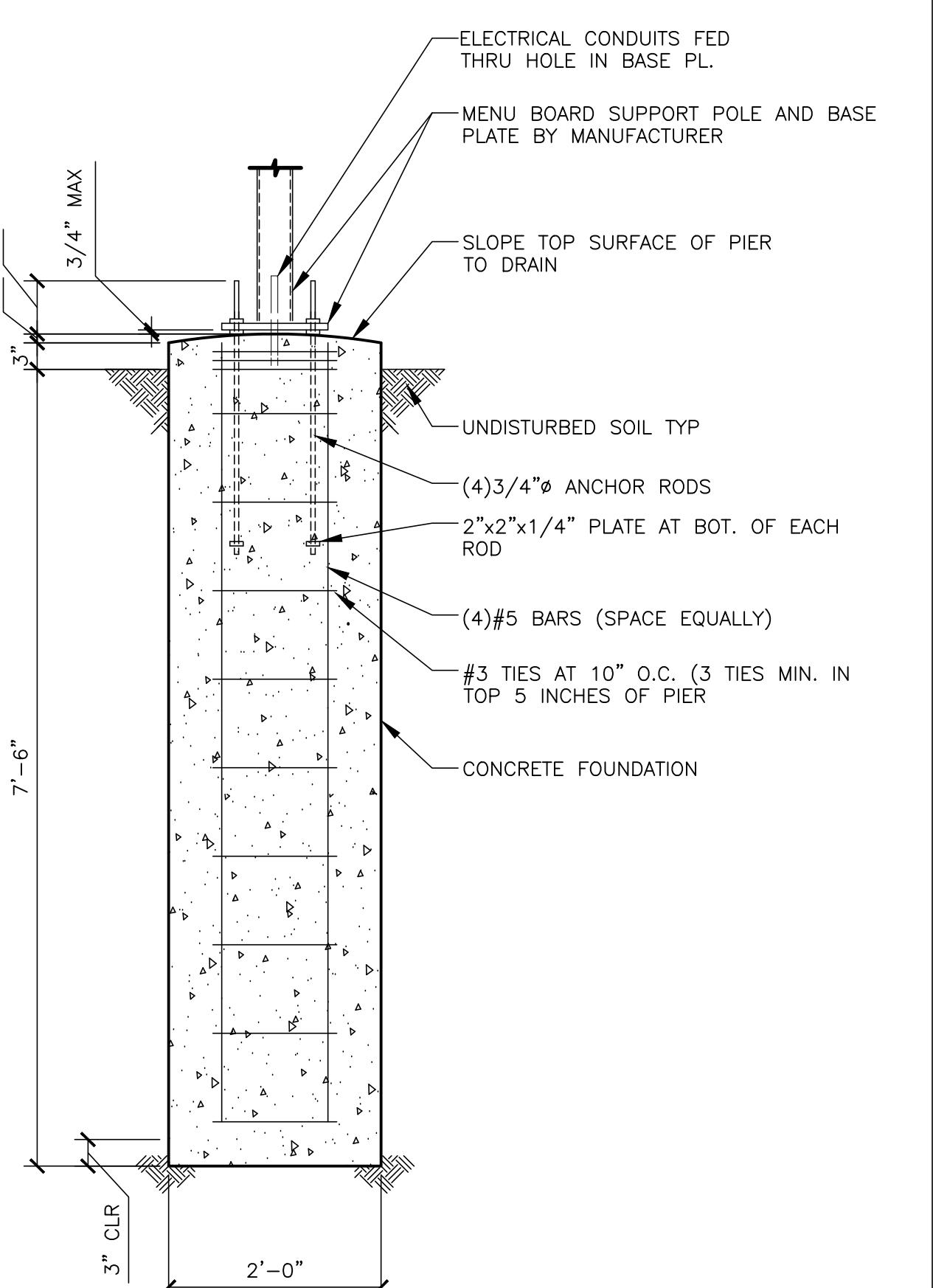
- SEE SHEET S4.0 FOR FOUNDATION, CONCRETE AND STRUCTURAL STEEL GENERAL NOTES.
- DESIGN LOADS DERIVED FROM CODES AND FORCES
- AXIAL - 120# (PRESSELL) 180# (DIRECTION)
- SHEAR - 267# (PRESSELL) 270# (DIRECTION)
- MOMENT - 1,219# (PRESSELL) 1,010# (DIRECTION)
- ALL FOOTING EXCAVATIONS ARE TO BE CLEAR OF WATER AND FOREIGN MATTER BEFORE PLACING CONCRETE
- TOP 6" OF SOIL NEGLECTED IN EMBEDMENT DEPTH CALCULATIONS (EMBEDMENT DEPTHS SHOWN ARE FROM GRADE)
- ELECTRICAL CONTRACTOR TO PROVIDE INFORMATION ON CONDUIT AND ELECTRICAL REQUIREMENTS
- ALL FOOTINGS SHALL BEAR ON FIRM UNDISTURBED RESIDUAL SOIL AND/OR ENGINEERED EARTH FILL COMPACTED TO 98% OF ITS MAXIMUM DRY DENSITY AS PER ASTM D 698-70 (STANDARD PROCTOR) UNLESS NOTED OTHERWISE.
- TOP OF PIERS SHALL BE SLOPED SUCH THAT MOISTURE CANNOT ACCUMULATE.
- DO NOT PLACE POLES ON CONCRETE UNTIL CONCRETE HAS CURED PER MCDONALDS CAST-IN-PLACE CONCRETE SPECIFICATION, SECTION 3.11-E. PERFORMED IN ACCORDANCE WITH AWS D1.1.
- REFER TO SIGN MANUFACTURER DRAWINGS AND INSTRUCTIONS FOR ADDITIONAL INFORMATION.
- ANCHOR RODS, NUTS, AND WASHERS SHALL BE SHIPPED AS AN ASSEMBLY FROM THE SIGN/LIGHTING MANUFACTURER
- DO NOT CUT ANCHOR BOLTS AFTER INSTALLATION OF POLE
- HIS FOUNDATION TO BE USED ONLY WITH FLORIDA PLASTICS INTERNATIONAL INC, STANDARD OPO-1 PRESSELL BOARD

2 FOUNDATION FOR MENU BOARD
S3.3 $3/4'' = 1'-0''$

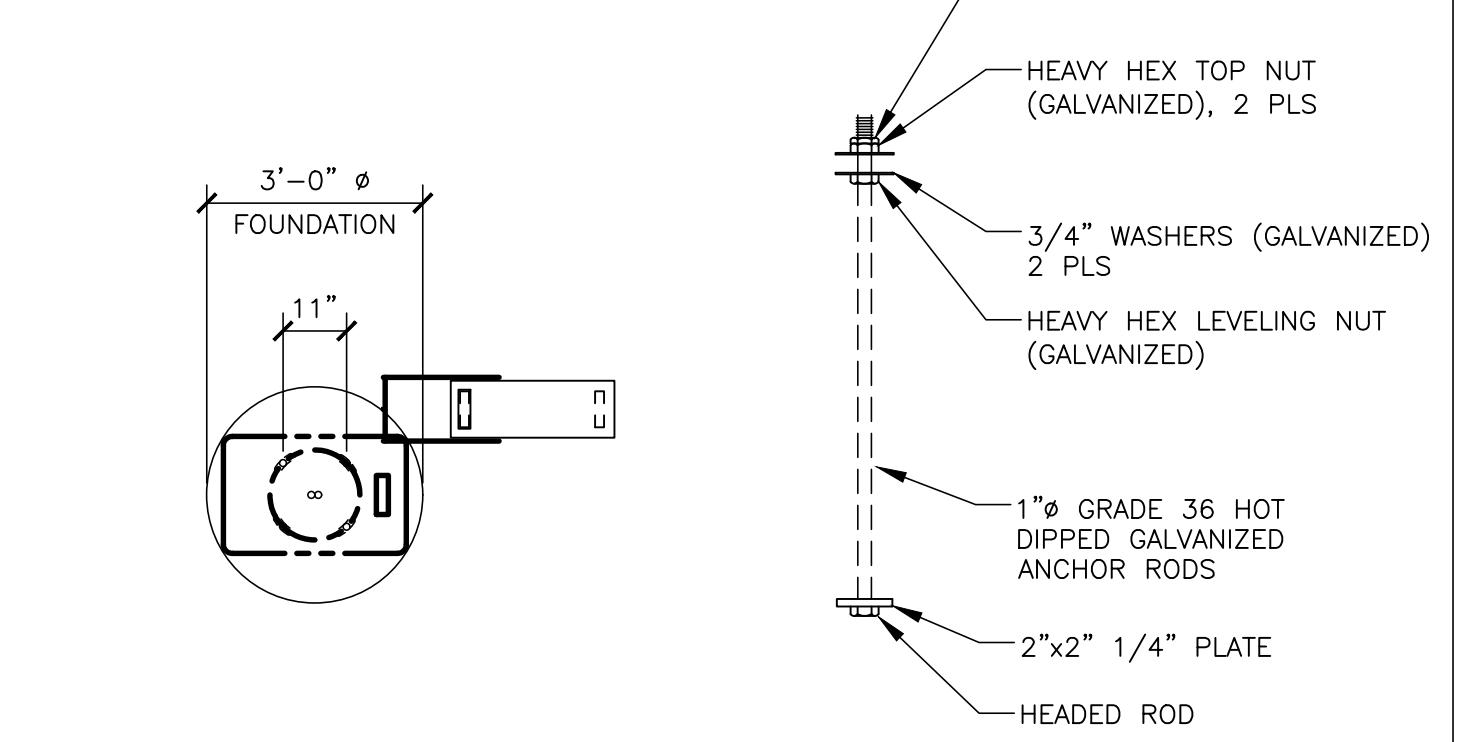
- SEE SHEET S4.0 FOR FOUNDATION, CONCRETE AND STRUCTURAL STEEL GENERAL NOTES
- DESIGN LOADS DERIVED FROM CODES AND FORCES
- AXIAL - 850#
- SHEAR - 1310#
- MOMENT - 14,500#
- ALL FOOTING EXCAVATIONS ARE TO BE CLEAR OF WATER AND FOREIGN MATTER BEFORE PLACING CONCRETE
- TOP 6" OF SOIL NEGLECTED IN EMBEDMENT DEPTH CALCULATIONS (EMBEDMENT DEPTHS SHOWN ARE FROM GRADE)
- ELECTRICAL CONTRACTOR TO PROVIDE INFORMATION ON CONDUIT AND ELECTRICAL REQUIREMENTS
- ALL FOOTINGS SHALL BEAR ON FIRM UNDISTURBED RESIDUAL SOIL AND/OR ENGINEERED EARTH FILL COMPACTED TO 98% OF ITS MAXIMUM DRY DENSITY AS PER ASTM D 698-70 (STANDARD PROCTOR) UNLESS NOTED OTHERWISE.
- TOP OF PIERS SHALL BE SLOPED SUCH THAT MOISTURE CANNOT ACCUMULATE.
- DO NOT PLACE POLES ON CONCRETE UNTIL CONCRETE HAS CURED PER MCDONALDS CAST-IN-PLACE CONCRETE SPECIFICATION, SECTION 3.11-E. PERFORMED IN ACCORDANCE WITH AWS D1.1.
- REFER TO SIGN MANUFACTURER DRAWINGS AND INSTRUCTIONS FOR ADDITIONAL INFORMATION.
- ANCHOR RODS, NUTS, AND WASHERS SHALL BE SHIPPED AS AN ASSEMBLY FROM THE SIGN/LIGHTING MANUFACTURER
- DO NOT CUT ANCHOR BOLTS AFTER INSTALLATION OF POLE
- DETAILS AND STRUCTURAL MEMBERS NOT SHOWN DESIGNED BY OTHERS



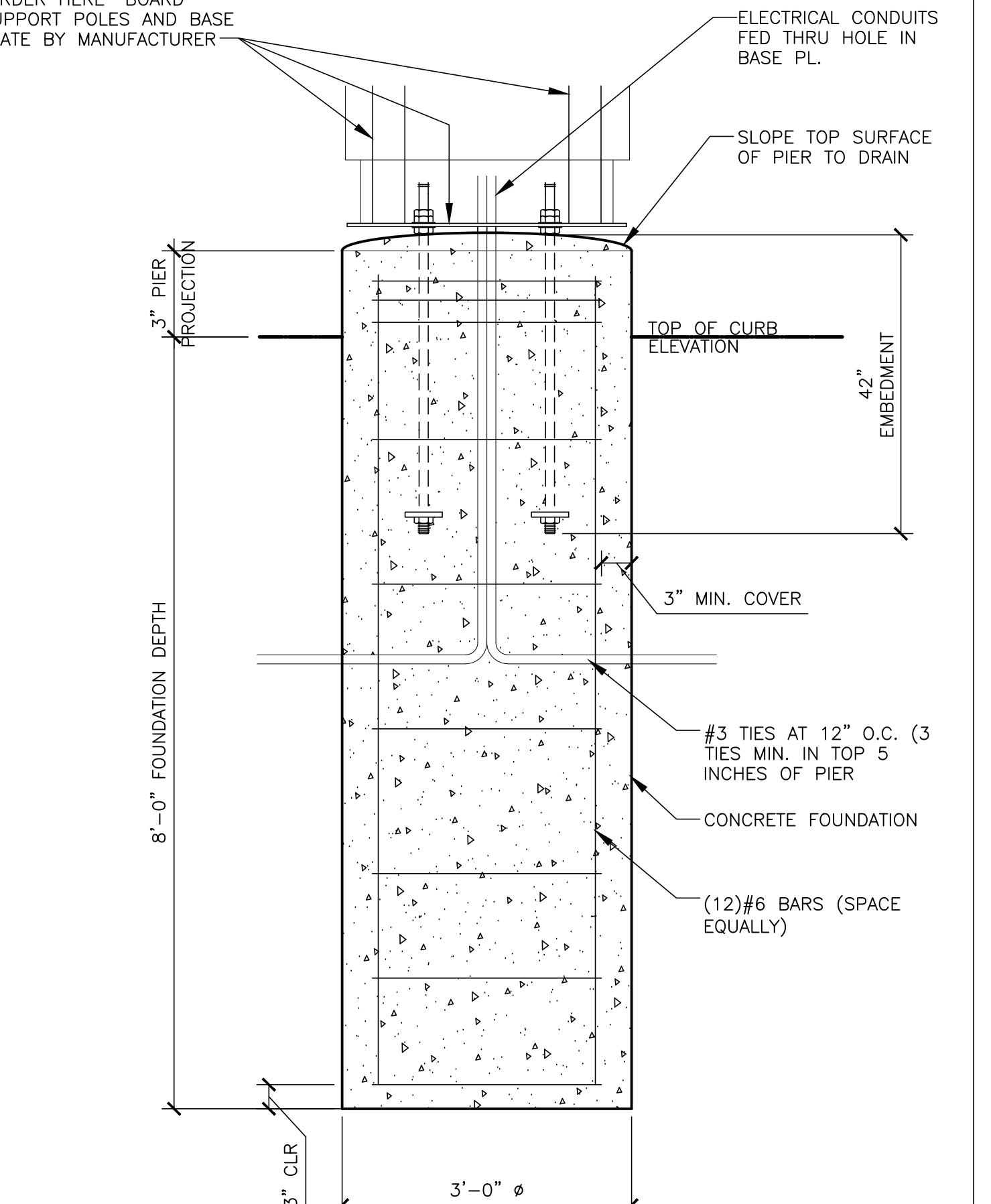
ANCHOR BOLT PATTERN



PIER SECTION DETAIL



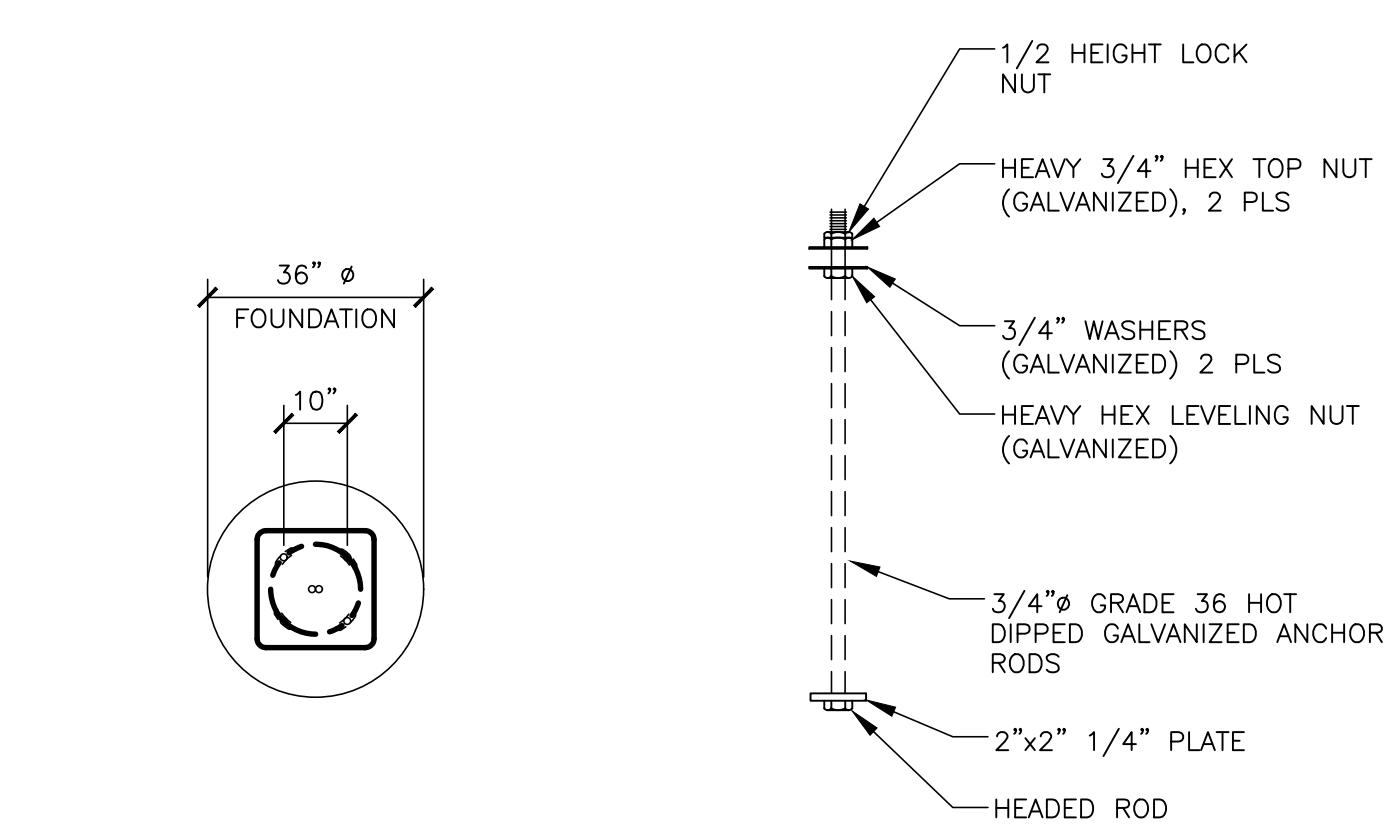
ANCHOR BOLT PATTERN



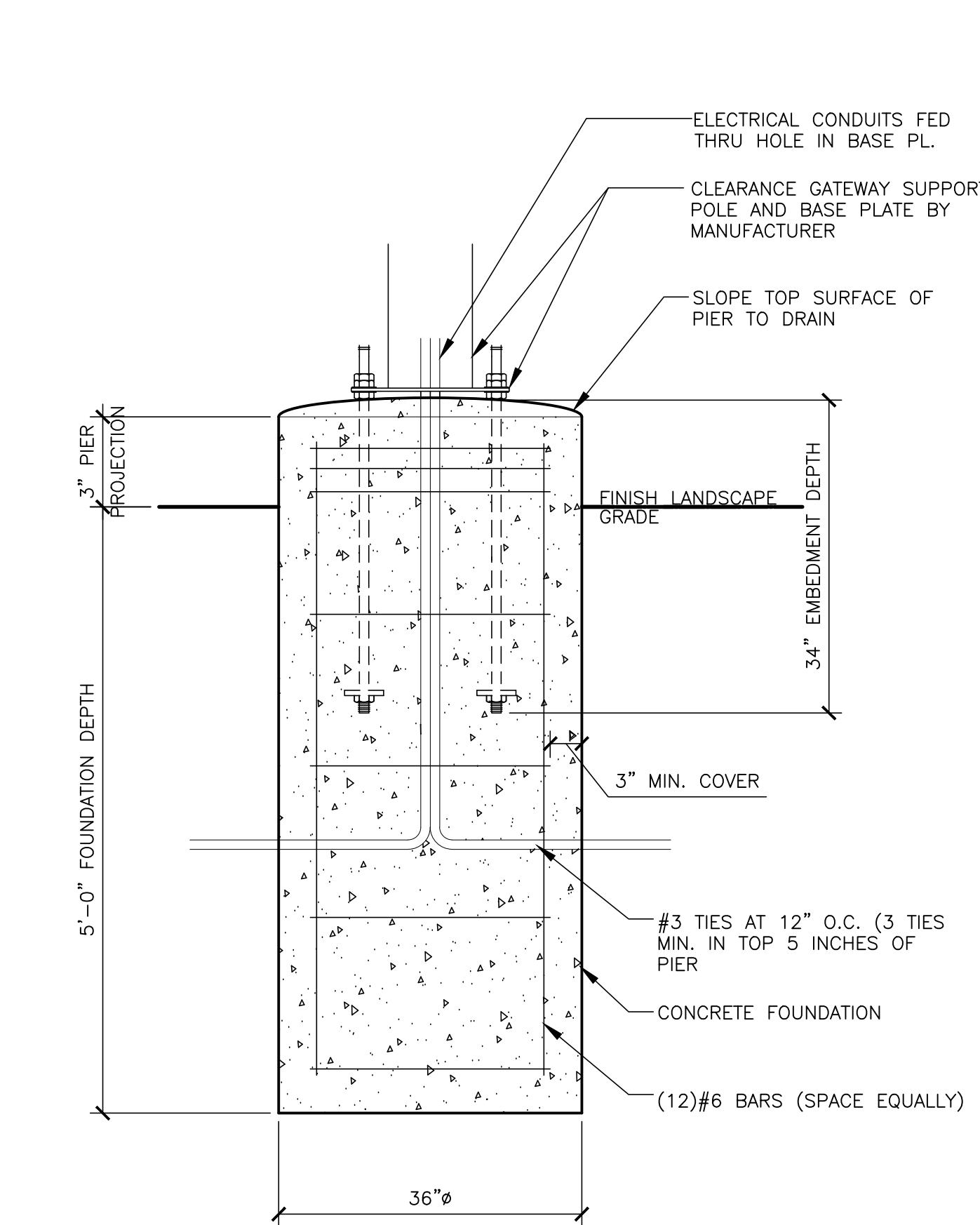
PIER SECTION DETAIL

3 FOUNDATION FOR "ORDER HERE" BOARD
S3.3 $3/4'' = 1'-0''$

- SEE SHEET S4.0 FOR FOUNDATION, CONCRETE AND STRUCTURAL STEEL GENERAL NOTES
- DESIGN LOADS DERIVED FROM CODES AND FORCES
- AXIAL - 2600#
- SHEAR - 2900#
- MOMENT - 14,500#
- ALL FOOTING EXCAVATIONS ARE TO BE CLEAR OF WATER AND FOREIGN MATTER BEFORE PLACING CONCRETE
- TOP 6" OF SOIL NEGLECTED IN EMBEDMENT DEPTH CALCULATIONS (EMBEDMENT DEPTHS SHOWN ARE FROM GRADE)
- ELECTRICAL CONTRACTOR TO PROVIDE INFORMATION ON CONDUIT AND ELECTRICAL REQUIREMENTS
- ALL FOOTINGS SHALL BEAR ON FIRM UNDISTURBED RESIDUAL SOIL AND/OR ENGINEERED EARTH FILL COMPACTED TO 98% OF ITS MAXIMUM DRY DENSITY AS PER ASTM D 698-70 (STANDARD PROCTOR) UNLESS NOTED OTHERWISE.
- TOP OF PIERS SHALL BE SLOPED SUCH THAT MOISTURE CANNOT ACCUMULATE.
- DO NOT PLACE POLES ON CONCRETE UNTIL CONCRETE HAS CURED PER MCDONALDS CAST-IN-PLACE CONCRETE SPECIFICATION, SECTION 3.11-E. PERFORMED IN ACCORDANCE WITH AWS D1.1.
- REFER TO SIGN MANUFACTURER DRAWINGS AND INSTRUCTIONS FOR ADDITIONAL INFORMATION.
- ANCHOR RODS, NUTS, AND WASHERS SHALL BE SHIPPED AS AN ASSEMBLY FROM THE SIGN/LIGHTING MANUFACTURER
- DO NOT CUT ANCHOR BOLTS AFTER INSTALLATION OF POLE
- DETAILS AND STRUCTURAL MEMBERS NOT SHOWN DESIGNED BY OTHERS



ANCHOR BOLT PATTERN



PIER SECTION DETAIL

4 FOUNDATION FOR CLEARANCE GATEWAY
S3.3 $3/4'' = 1'-0''$

- SEE SHEET S4.0 FOR FOUNDATION, CONCRETE AND STRUCTURAL STEEL GENERAL NOTES
- DESIGN LOADS DERIVED FROM CODES AND FORCES
- AXIAL - 790#
- SHEAR - 600#
- MOMENT - 5335#
- ALL FOOTING EXCAVATIONS ARE TO BE CLEAR OF WATER AND FOREIGN MATTER BEFORE PLACING CONCRETE
- TOP 6" OF SOIL NEGLECTED IN EMBEDMENT DEPTH CALCULATIONS (EMBEDMENT DEPTHS SHOWN ARE FROM GRADE)
- ELECTRICAL CONTRACTOR TO PROVIDE INFORMATION ON CONDUIT AND ELECTRICAL REQUIREMENTS
- ALL FOOTINGS SHALL BEAR ON FIRM UNDISTURBED RESIDUAL SOIL AND/OR ENGINEERED EARTH FILL COMPACTED TO 98% OF ITS MAXIMUM DRY DENSITY AS PER ASTM D 698-70 (STANDARD PROCTOR) UNLESS NOTED OTHERWISE.
- TOP OF PIERS SHALL BE SLOPED SUCH THAT MOISTURE CANNOT ACCUMULATE.
- DO NOT PLACE POLES ON CONCRETE UNTIL CONCRETE HAS CURED PER MCDONALDS CAST-IN-PLACE CONCRETE SPECIFICATION, SECTION 3.11-E. PERFORMED IN ACCORDANCE WITH AWS D1.1.
- REFER TO SIGN MANUFACTURER DRAWINGS AND INSTRUCTIONS FOR ADDITIONAL INFORMATION.
- ANCHOR RODS, NUTS, AND WASHERS SHALL BE SHIPPED AS AN ASSEMBLY FROM THE SIGN/LIGHTING MANUFACTURER
- DO NOT CUT ANCHOR BOLTS AFTER INSTALLATION OF POLE
- DETAILS AND STRUCTURAL MEMBERS NOT SHOWN DESIGNED BY OTHERS

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Chicago, IL 60613
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TX Firm Reg No. 14032



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07/30/2025

McDonald's USA, LLC

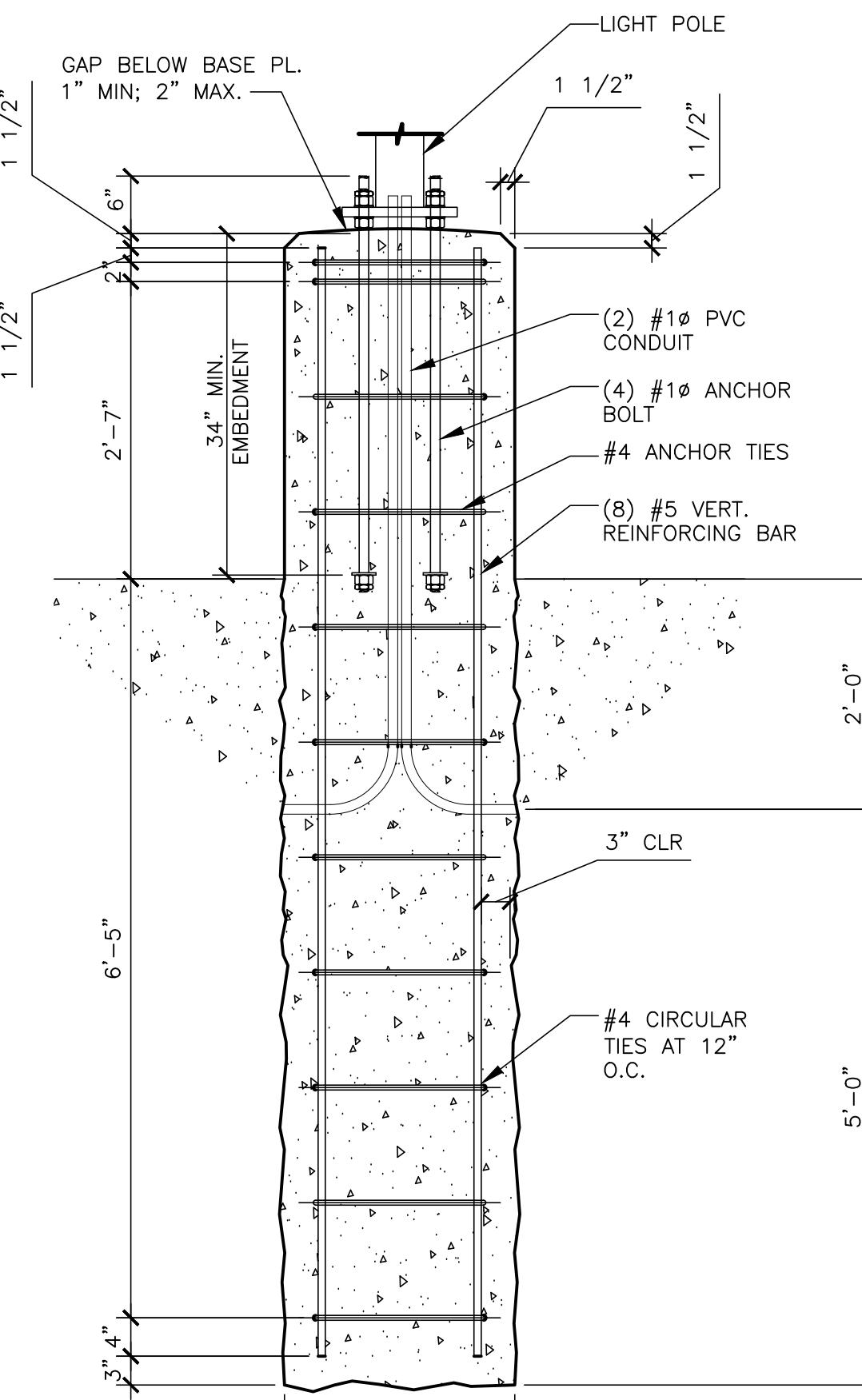
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TITLE	2024 STANDARD BUILDING - BB20
STD ISSUE DATE	2024
DRAWN BY	MR
REVIEWED BY	AP
DATE ISSUED	07/19/2024
DESCRIPTION	WOOD BEARING WALLS WITH HARDE SIDING WOOD ROOF TRUSSES WOOD FRAMING WOOD/BATEN/METAL/HARDE SIDING EXTERIOR FINISHES
SITE ID	JAWA 24-0107 S3.3 SHEET NO.
REV	BY
DATE	04-2-3548

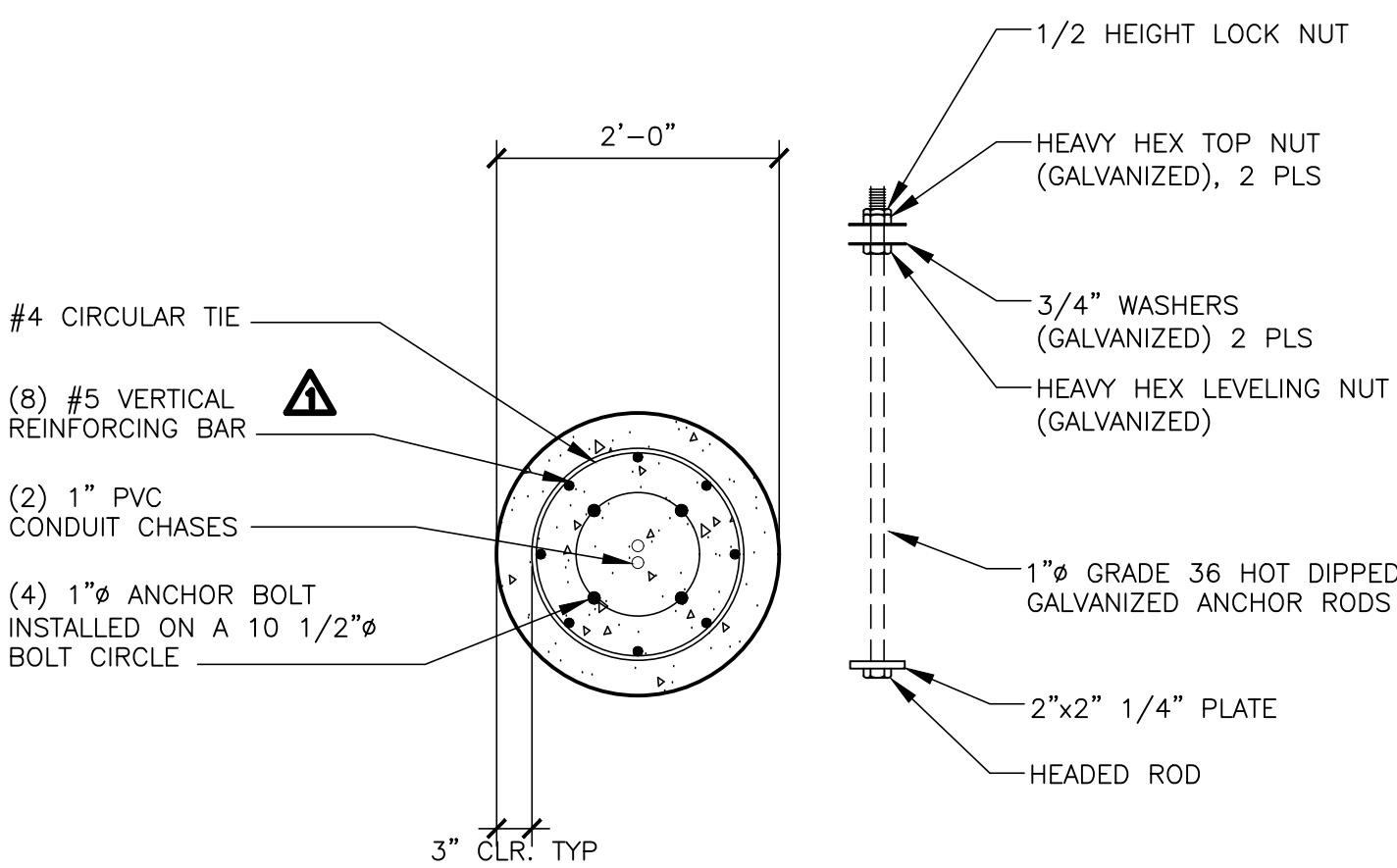
S3.3
SITE ELEMENTS DETAILS

LIGHT POLE BASE NOTES

- SEE SHEET S4.0 FOR STRUCTURAL GENERAL NOTES
- DESIGN CRITERIA:
 - AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, FIFTH EDITION, 2009
- FOUNDATION DESIGN PARAMETERS:
 - MOMENT = 16,845 lbs-ft
 - BASE SHEAR = 978 lbs
 - 6" MAXIMUM DEPTH OF DISTURBED SOIL OR TOP SOIL
 - THIS FOUNDATION DESIGN SHALL NOT BE USED IN LOCATIONS WHICH ARE CLOSER THAN 8ft FROM A RETAINING WALL.
 - THIS FOUNDATION DESIGN SHALL NOT BE USED AT LOCATIONS WHERE THE GROUND SLOPE EXCEEDS 4 inches per foot.



PIER SECTION DETAIL



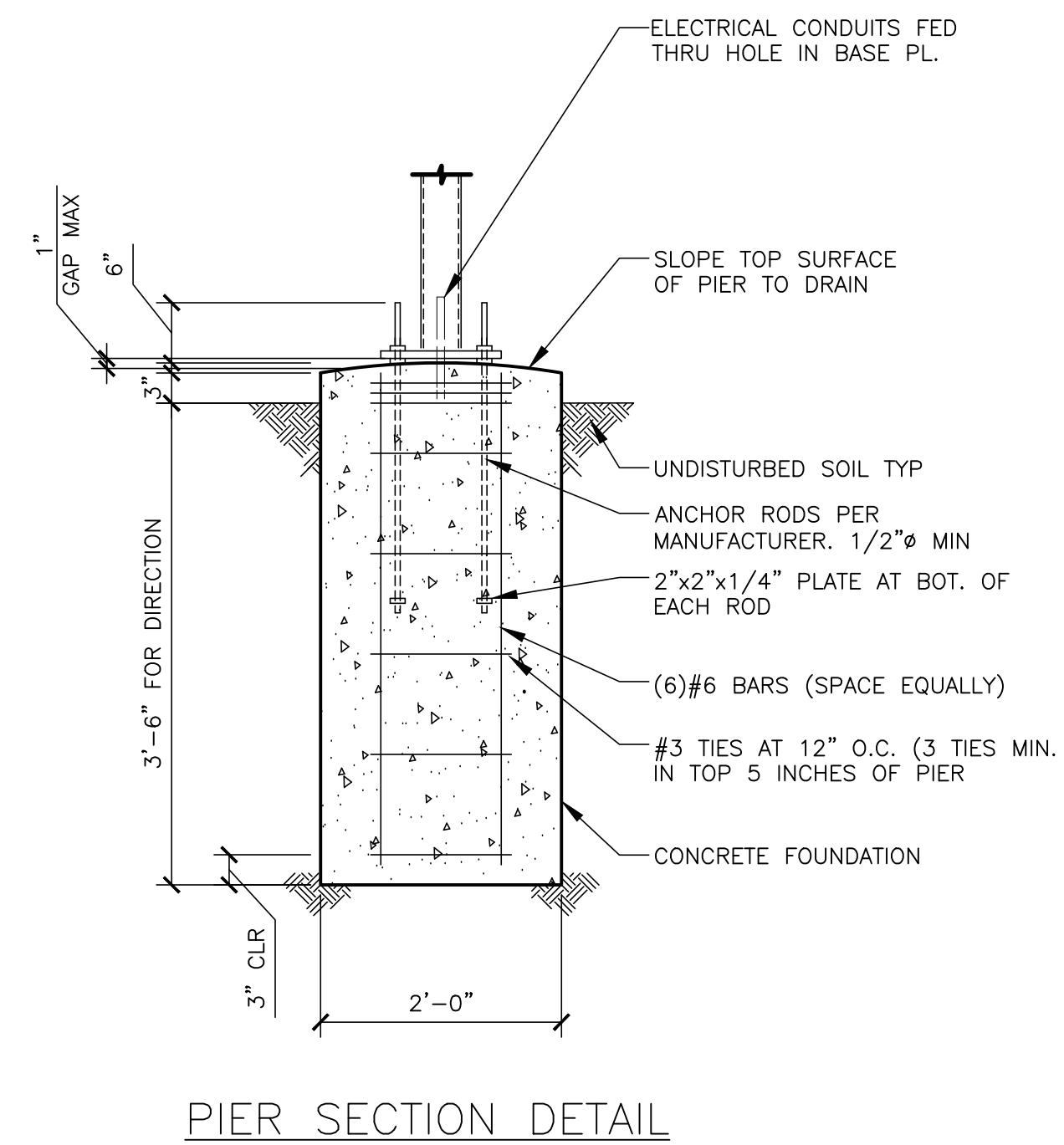
ANCHOR BOLT PATTERN

FOUNDATION FOR LIGHT POLE BASE

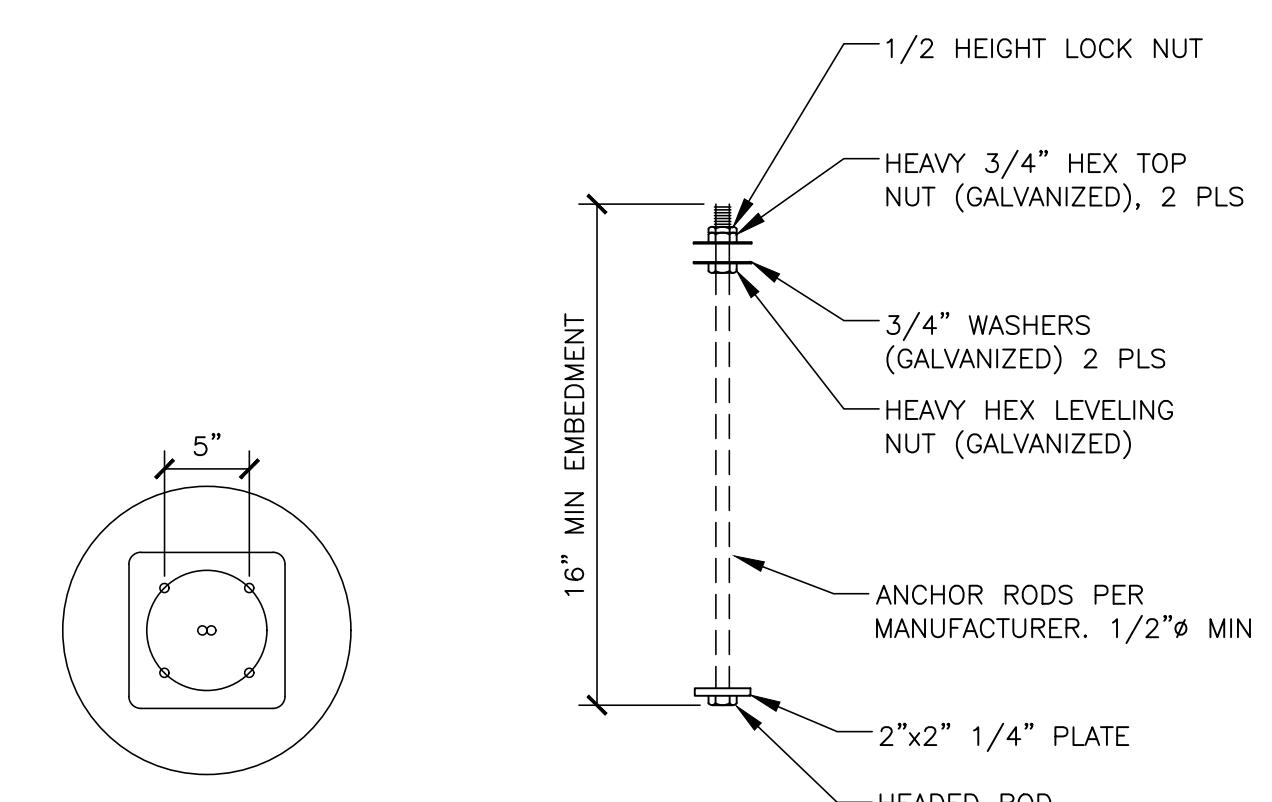
(1) S3.4

3/4" = 1'-0"

- SEE SHEET S4.0 FOR FOUNDATION, CONCRETE AND STRUCTURAL STEEL GENERAL NOTES
- DESIGN LOADS DERIVED FROM CODES AND FORCES
 - AXIAL - 180# (DIRECTION)
 - SHEAR - 270# (DIRECTION)
 - MOMENT 1,010# (DIRECTION)
- ALL FOOTING EXCAVATIONS ARE TO BE CLEAR OF WATER AND FOREIGN MATTER BEFORE PLACING CONCRETE.
- TOP 6" OF SOIL NEGLECTED IN EMBEDMENT DEPTH CALCULATIONS (EMBEDMENT DEPTHS SHOWN ARE FROM GRADE)
- ELECTRICAL CONTRACTOR TO PROVIDE INFORMATION ON CONDUIT AND ELECTRICAL REQUIREMENTS.
- ALL FOOTINGS SHALL BEAR ON FIRM UNDISTURBED RESIDUAL SOIL AND/OR ENGINEERED EARTH FILL COMPACTED TO 98% OF ITS MAXIMUM DRY DENSITY AS PER ASTM D 698-70 (STANDARD PROCTOR) UNLESS NOTED OTHERWISE.
- TOP PIERS SHALL BE SLOPED SUCH THAT MOISTURE CANNOT ACCUMULATE.
- DO NOT PLACE POLES IN CONCRETE UNTIL CONCRETE HAS CURED PER MCDONALDS CAST-IN-PLACE CONCRETE SPECIFICATION, SECTION 3.11-E, PERFORMED IN ACCORDANCE WITH AWS D1.1.
- REFER TO SIGN MANUFACTURER DRAWINGS AND INSTRUCTIONS FOR ADDITIONAL INFORMATION.
- ANCHOR RODS, NUTS, AND WASHERS SHALL BE SHIPPED AS AN ASSEMBLY FROM THE SIGN/LIGHTING MANUFACTURER
- DO NOT CUT ANCHOR BOLTS AFTER INSTALLATION OF POLE



PIER SECTION DETAIL



ANCHOR BOLT PATTERN

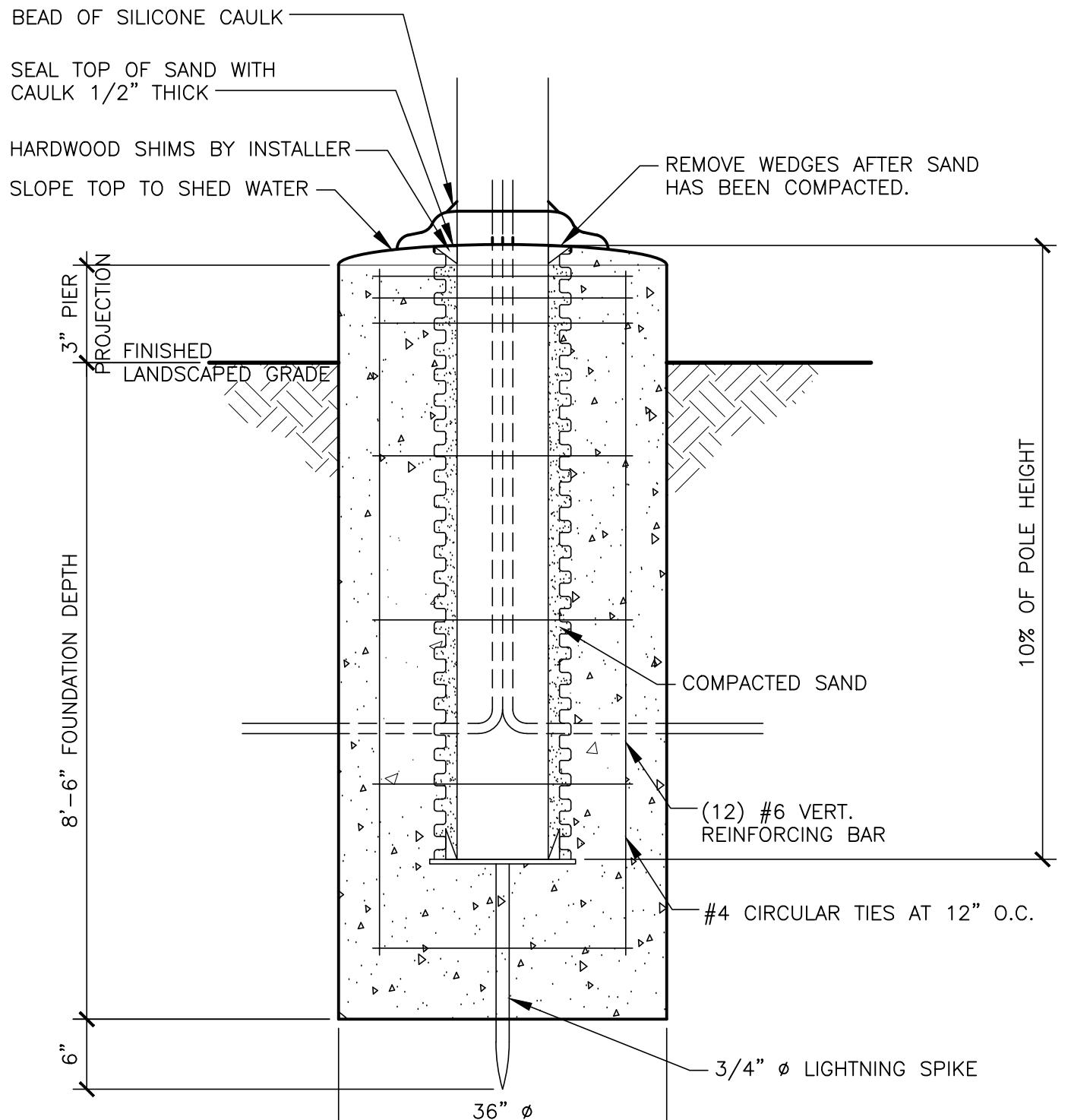
FOUNDATION FOR DIRECTION BOARD

(2) S3.4

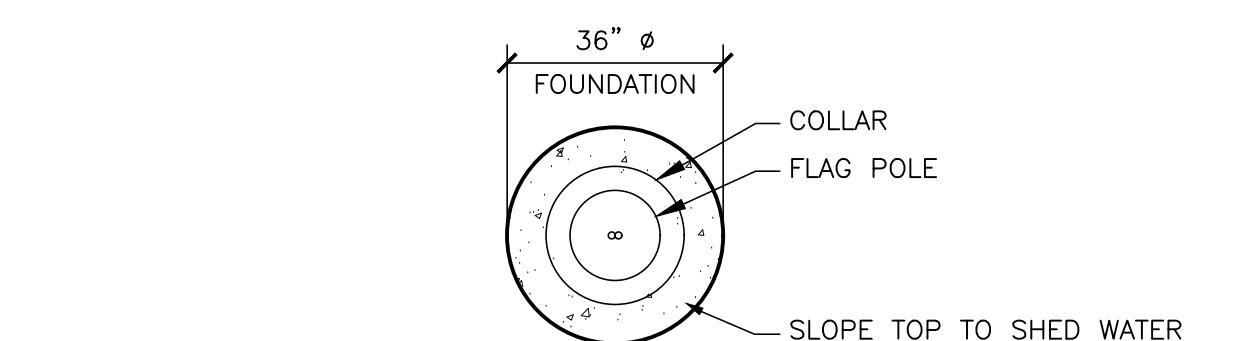
3/4" = 1'-0"

FLAG POLE BASE NOTES

- SEE SHEET S4.0 FOR STRUCTURAL GENERAL NOTES AND DESIGN CODES
- DESIGN CRITERIA:
 - AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, FIFTH EDITION, 2009
- FOUNDATION DESIGN PARAMETERS:
 - MOMENT = 33,480 lbs-ft
 - BASE SHEAR = 1682 lbs
 - 6" MAXIMUM DEPTH OF DISTURBED SOIL OR TOP SOIL
 - THIS FOUNDATION DESIGN SHALL NOT BE USED IN LOCATIONS WHICH ARE CLOSER THAN 8ft FROM A RETAINING WALL.
 - THIS FOUNDATION DESIGN SHALL NOT BE USED AT LOCATIONS WHERE THE GROUND SLOPE EXCEEDS 4 inches per foot.
 - ELECTRICAL CONTRACTOR TO PROVIDE INFORMATION ON CONDUIT AND ELECTRICAL REQUIREMENTS.
 - INSTALL SAND AND POLE PER MANUFACTURERS INSTALLATION INSTRUCTIONS.
 - SEAL SAND IN FOUNDATION WITH CAULK PER MANUFACTURERS GUIDELINES.
 - FLAG SIZES SHALL NOT EXCEED THE FOLLOWING AREA LIMITATIONS:
 - 25'-0" POLE --> 5'-0" x 8'-0" FLAG
 - 30'-0" POLE --> 6'-0" x 10'-0" FLAG
 - 40'-0" POLE --> 8'-0" x 12'-0" FLAG
 - 50'-0" POLE --> 10'-0" x 15'-0" FLAG
- REFER TO FLAG MANUFACTURER DRAWINGS AND INSTRUCTIONS FOR ADDITIONAL INFORMATION INCLUDING INSTALLATION INSTRUCTIONS.



PIER SECTION DETAIL

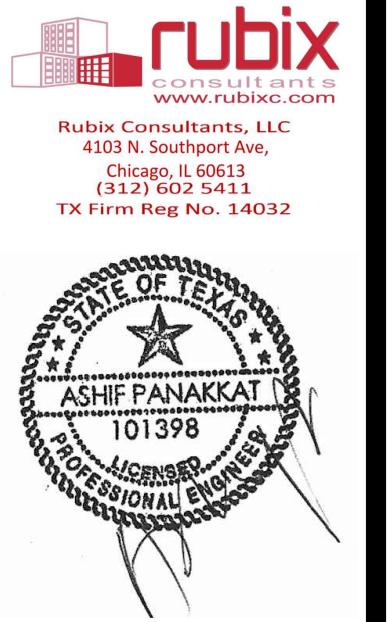


ANCHOR BOLT PATTERN

FOUNDATION FOR FLAG POLE BASE

(3) S3.4

3/4" = 1'-0"

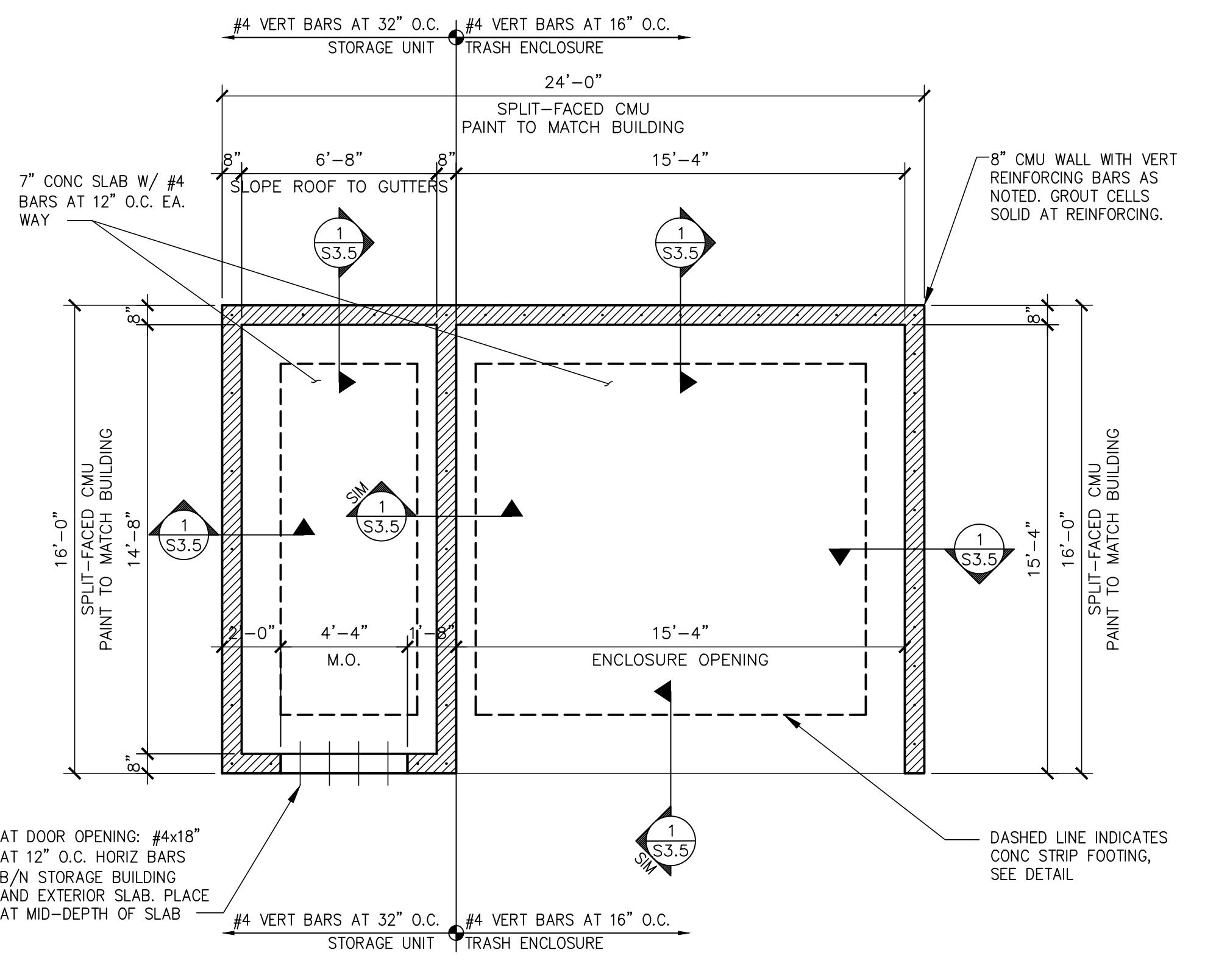


Signed/Sealed:
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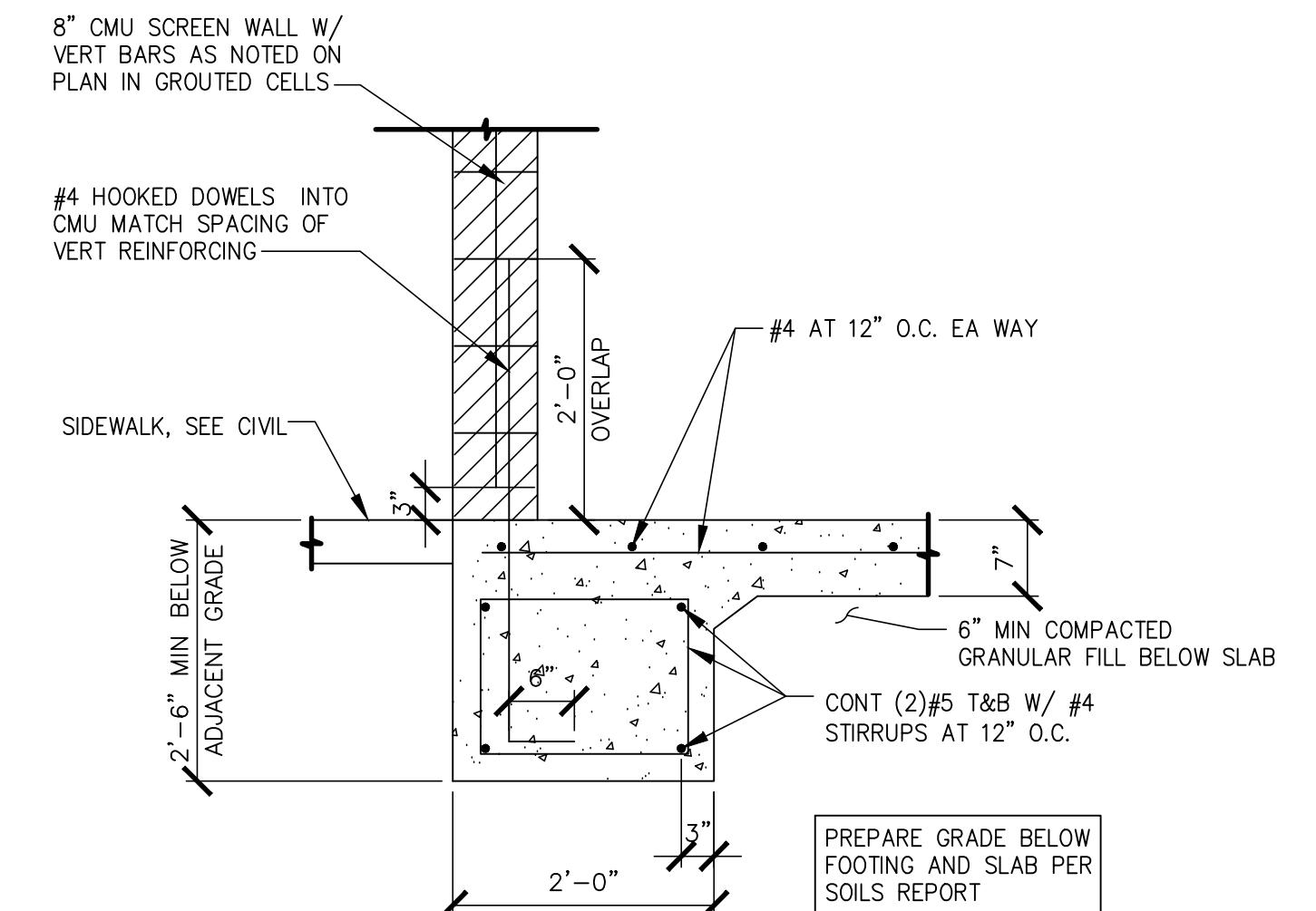
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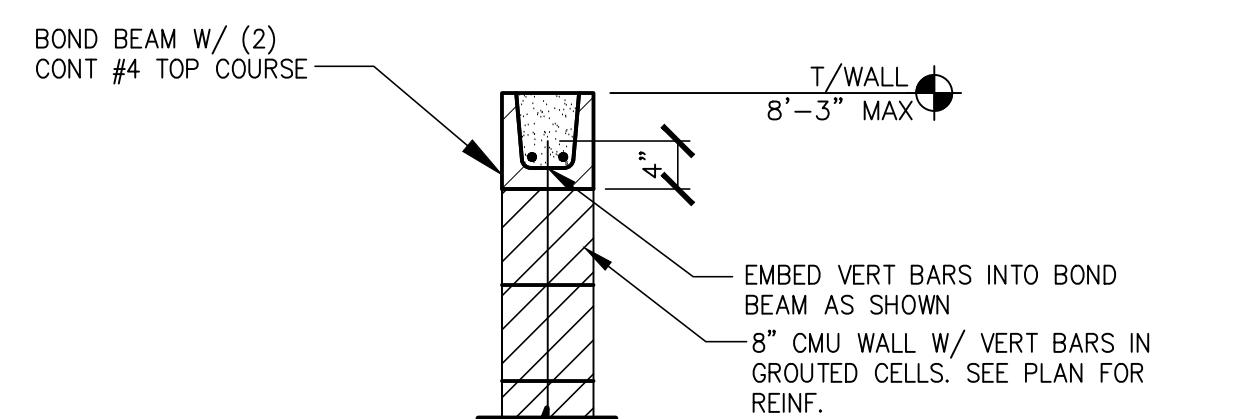
TITLE	DRAWN BY	STD ISSUE DATE	REVIEWED BY	DATE ISSUED
2024 STANDARD BUILDING - BB20	MR	2024	AP	07/19/2024
4584-WOOD/WOOD				
DESCRIPTION				
WOOD BEARING WALLS WITH HARDI SIDING				
WOOD ROOF TRUSS FRAMING				
EPS/BATTEN/MEAL/HARDIE SIDING EXTERIOR FINISHES				
SITE ID				
042-3548				
13240-LUS-290-300-JAWA-1025				
SHEET NO.	JAWA 24-0107			
S3.4				
SITE ELEMENTS DETAILS				



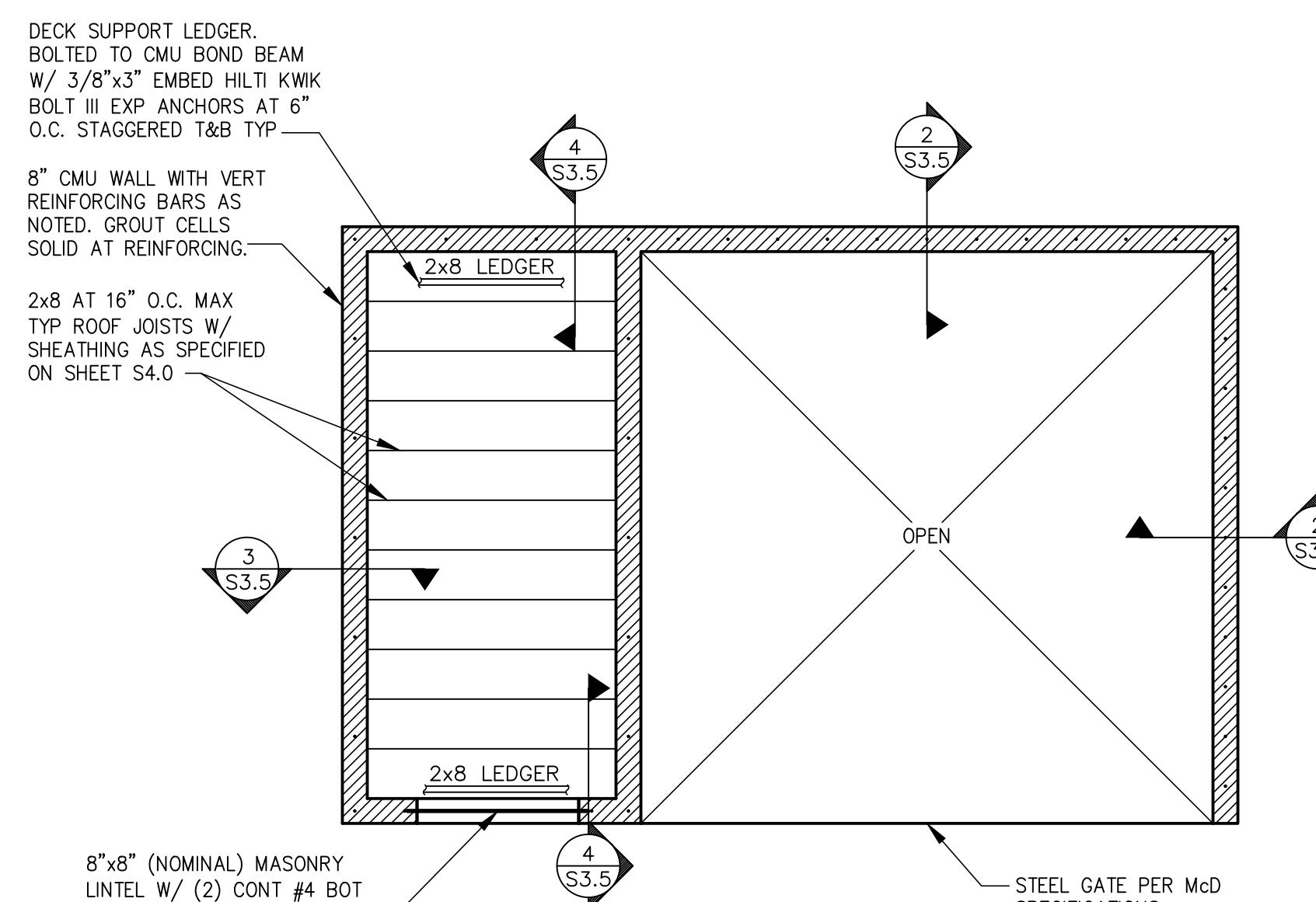
FOUNDATION PLAN @ TRASH ENCL
S3.5 N.T.S.



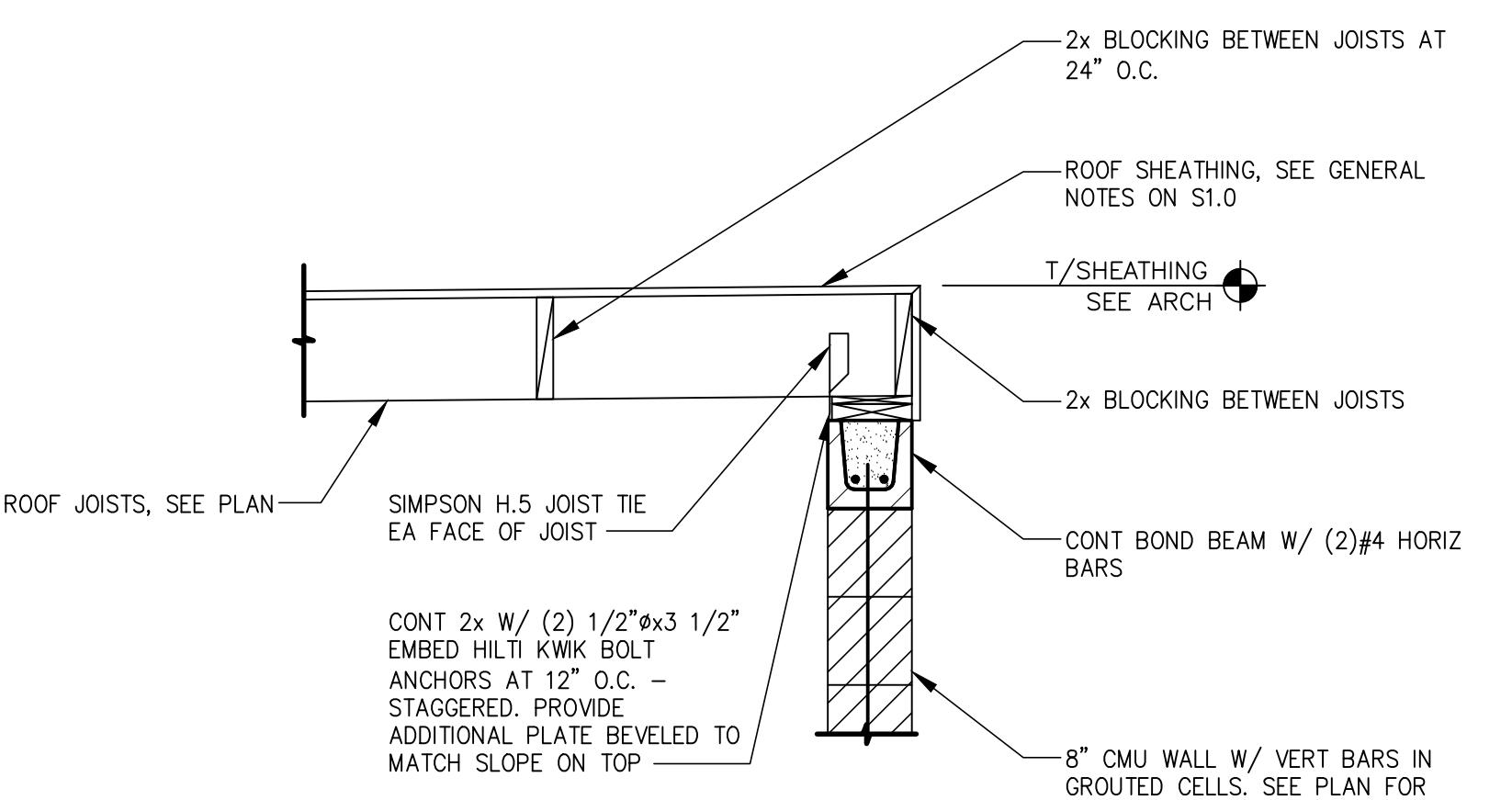
FOUNDATION DETAIL
S3.5 N.T.S.



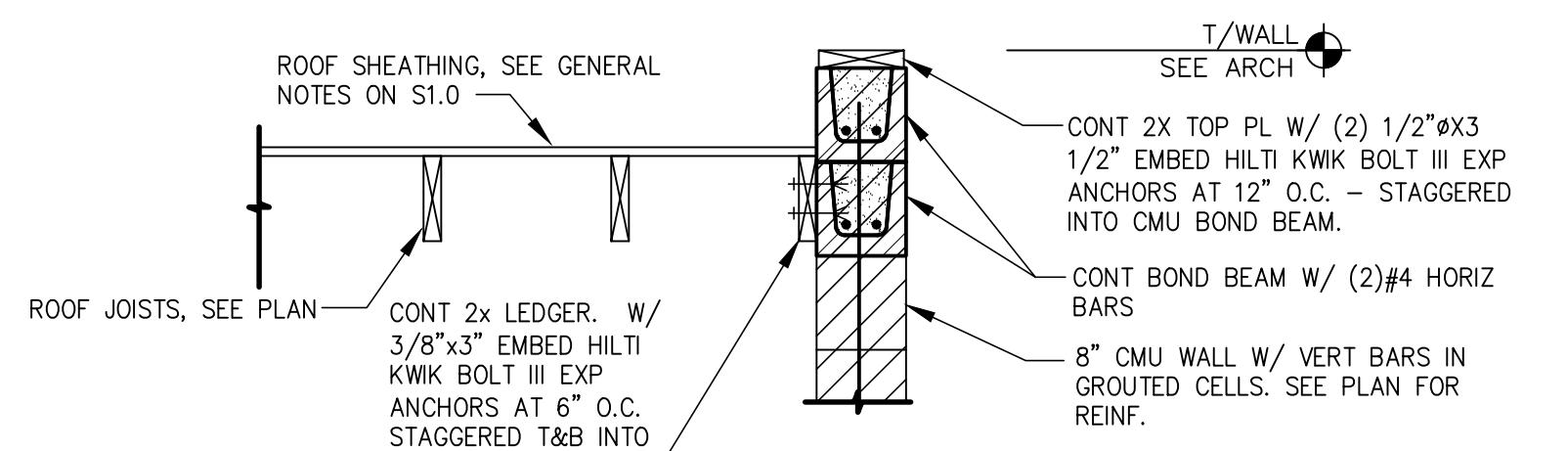
TOP OF WALL @ TRASH ENCL
S3.5 N.T.S.



FRAMING PLAN @ TRASH ENCL
S3.5 N.T.S.



TOP OF WALL @ STORAGE BLDG
S3.5 N.T.S.



SECTION@ STORAGE BLDG
S3.5 N.T.S.

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TITLE	2024 STANDARD BUILDING - BB20	DRAWN BY	MR
STD ISSUE DATE	2024	REVISED BY	AP
DATE ISSUED	07/19/2024	DATE ISSUED	07/19/2024
DESCRIPTION	WOOD BEARING WALLS WITH HARDIE SIDING		
SITE ID	JAWA 24-0107 S3.5 TRASH ENCL DETAILS		

JAWA 24-0107
S3.5
TRASH ENCL DETAILS

REV	DATE	DESCRIPTION
1	09/20/24	NCD OC COMMENTS & FOUNDATION, PLUMBING, AND DOOR UPDATES
2	12/20/24	ELEVATIONS REDESIGN & PROTO UPDATE
3	07/24/25	SQUARED OFF BACK & ADDED V/H ARTICULATIONS & UPDATED ADDRESS

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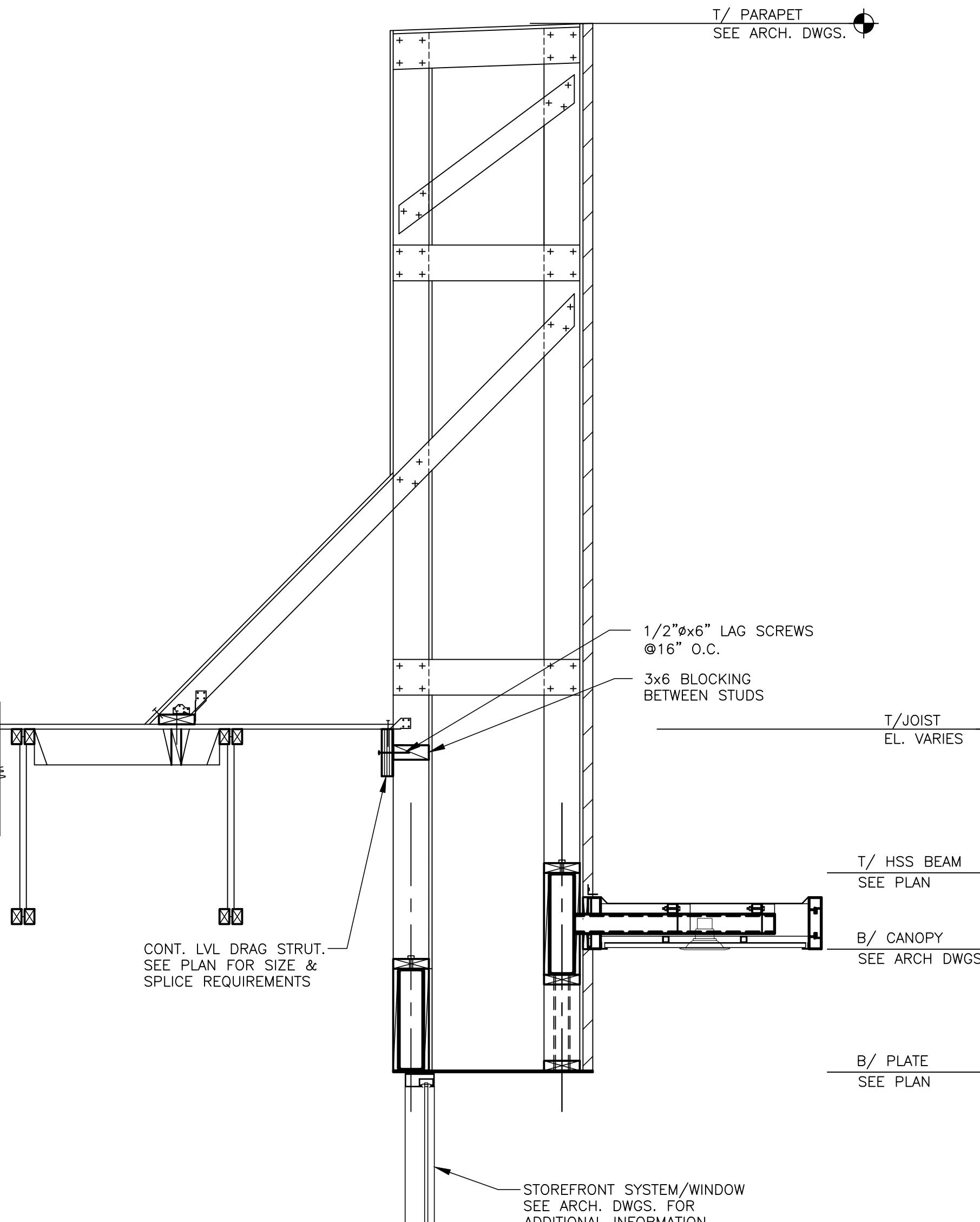
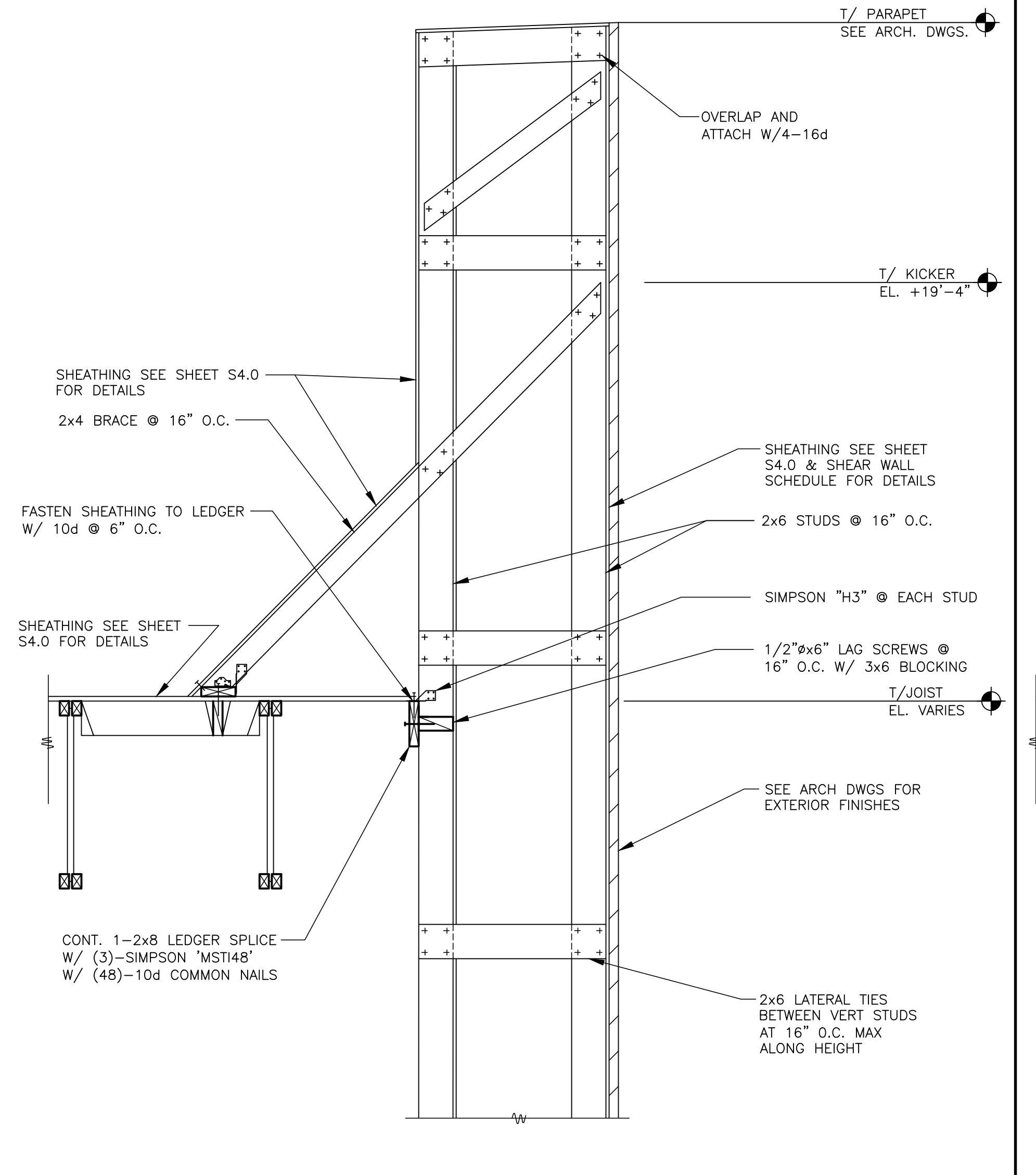
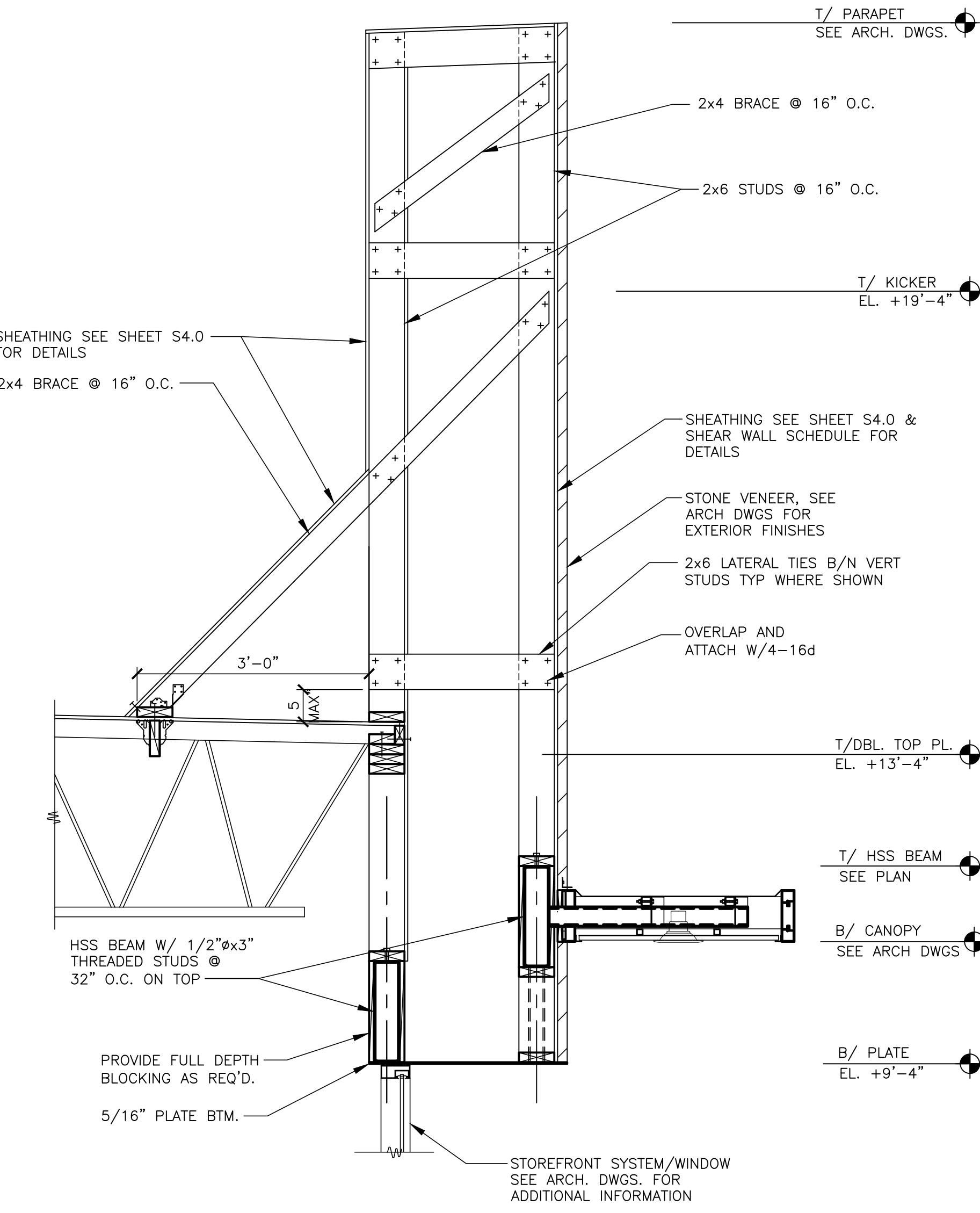
ASHIP PANAKKAT
101398
LICENSED PROFESSIONAL PRACTITIONER

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07/30/2025

SEE SECTION 2/S3.0 FOR
ADDITIONAL INFORMATION

SEE SECTION 3/S3.0 &
1/S3.6 FOR ADDITIONAL
INFORMATION

SEE SECTION 4/S3.0 &
1/S3.6 FOR ADDITIONAL
INFORMATION



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Signed/Sealed:
07/30/2025

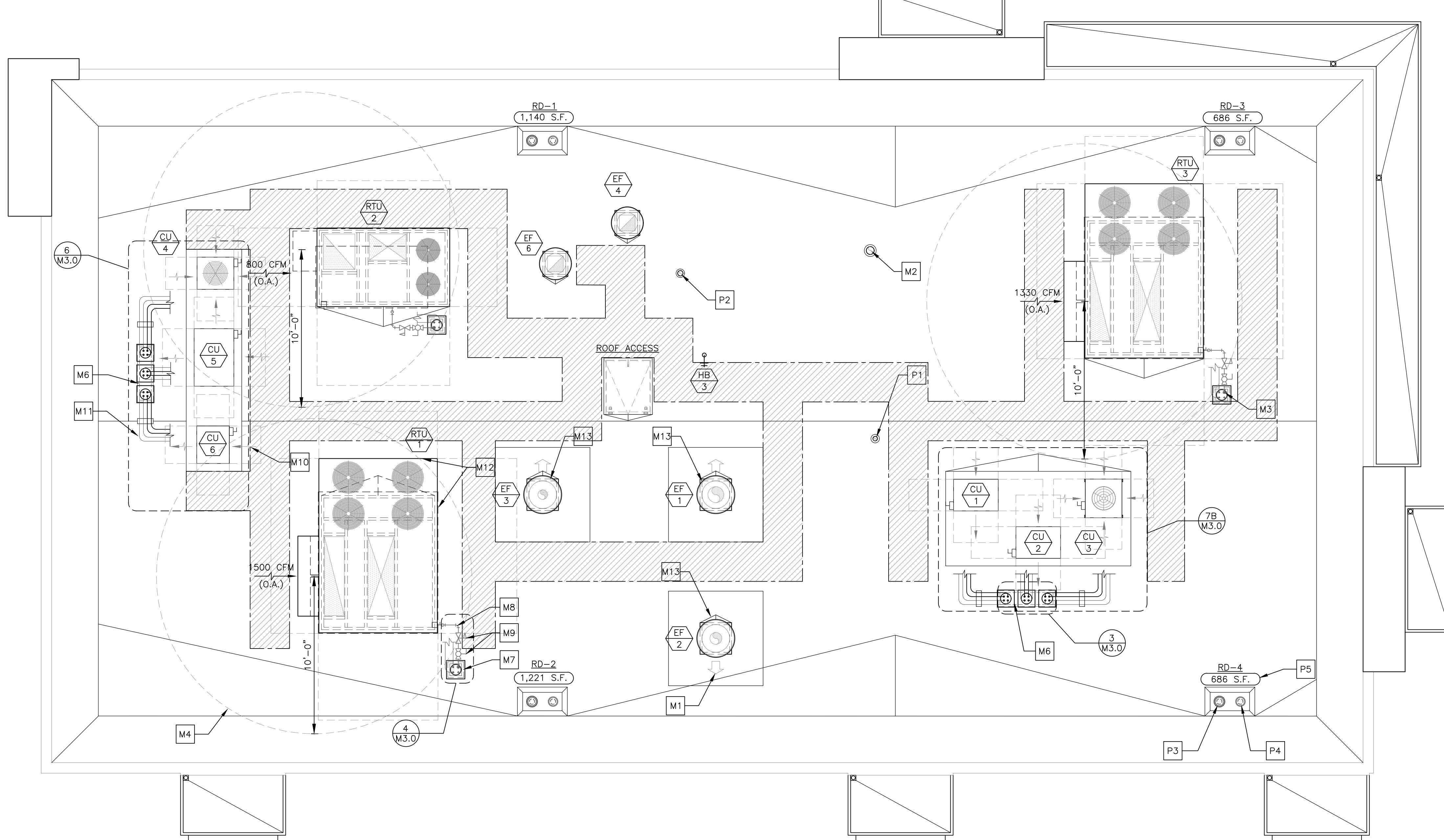
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SHEET NO.	TITLE	DRAWN BY	MR
	2024 STANDARD BUILDING - BB20	STD ISSUE DATE	2024
	4584-WOOD/WOOD	REVIEWED BY	AP
DESCRIPTION	WOOD BEARING WALLS WITH HARDE SIDING WOOD ROOF TRUSS FRAMING LIFS/BATTEN/MERIDIAN SIDING EXTERIOR FINISHES	DATE ISSUED	07/19/2024
SITE ID	JAWA 24-0107	FILE NUMBER	042-3548
SCALE	1/8" = 1'-0"	DATE	07/24/2024
REV		BY	

S 3.6
JAWA 24-0107
FRAMING SECTIONS

STRUCTURAL GENERAL NOTES:



1

ROOF PLAN
M1.0

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.
- 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.

PIPE PORTAL SCHEDULE

MANUFACTURER	CURB DIMENSIONS	CURB TYPE	CAP TYPE (QTY)	SERVES	THERMOSTAT SETTINGS		
RPS	12"x12"x11"H	RC-2A	N18 (1)	RTU-1 THROUGH RTU-3 CU-1 THROUGH CU-6	MODE OCCUPIED	FAN ON	COOLING 75°F
RPS	43"x12"x13"H	RC-2A	N18 (3)		UNOCCUPIED	AUTO	HEATING 90°F

SEQUENCE OF OPERATION

DRAWN BY	STD ISSUE DATE	REVIEWED BY	THERMOSTAT SETTINGS		
			JAW	SETPOINTS	
	2024			COOLING 70°F	HEATING 55°F
				HUMIDITY 90°F	55°F
				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 1500 CFM RETURN AIR. COORDINATE WITH E.C. AND BAS SUPPLIER.	

REV	DATE	DESCRIPTION
1	09/20/24	MCD GC COMMENTS & FOUNDATION, PLUMBING, AND DOOR UPDATES
2	12/20/24	ELEVATIONS, REDESIGN & PROTO UPDATE
3	07/24/25	SQUARED OFF BACK & ADDED V/H ARTICULATIONS & UPDATED ADDRESS

Robert D. Anderson, Inc.
MEP Engineering & Design Consultants
HVAC/illumination/Plumbing/Power Distribution/Control
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4403 Zinn Rd.
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voice: 972-847-7204
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contact: Mark Swanson-Project Manager
voice: 817-556-0986
email: mark@mtdesigns.com

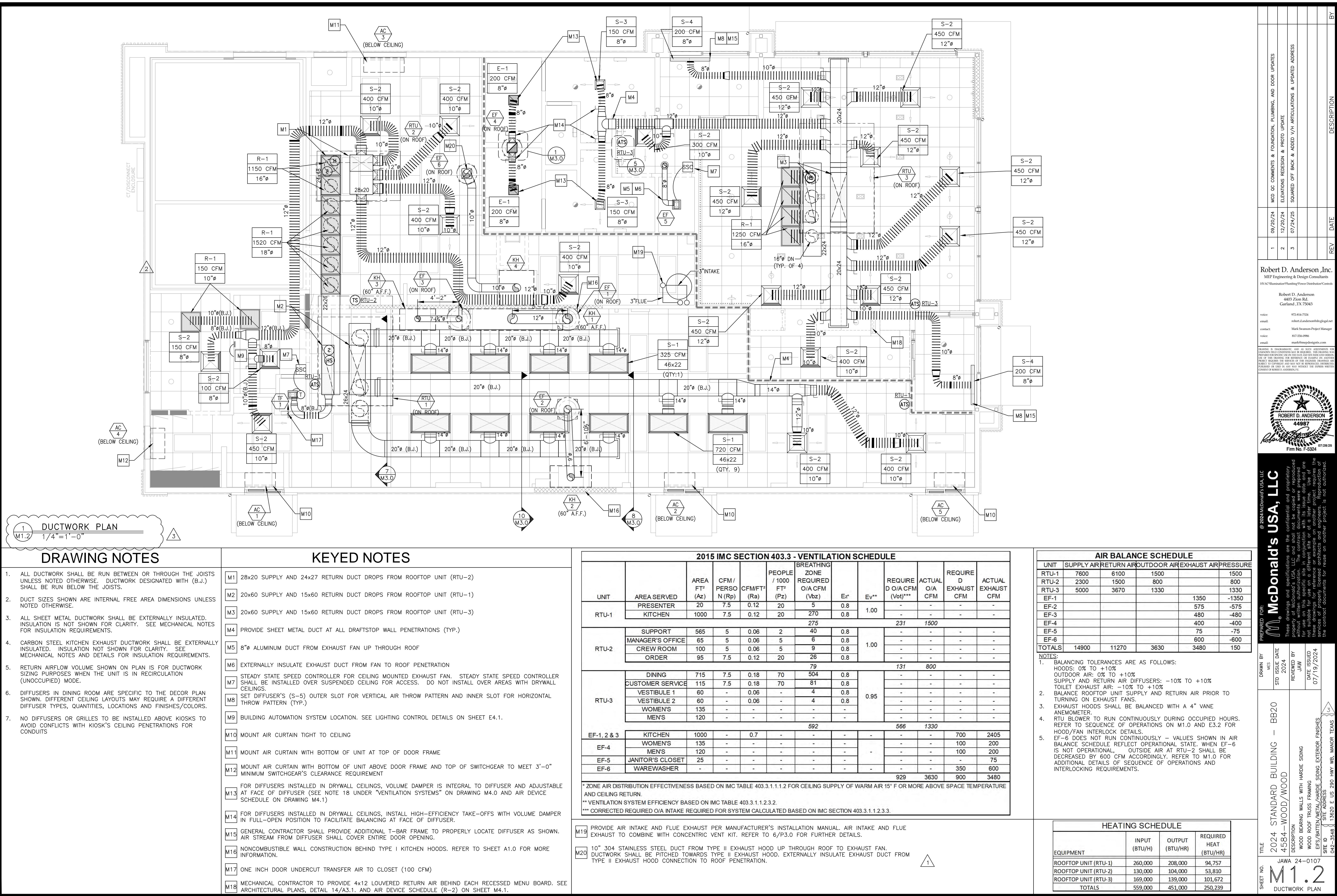
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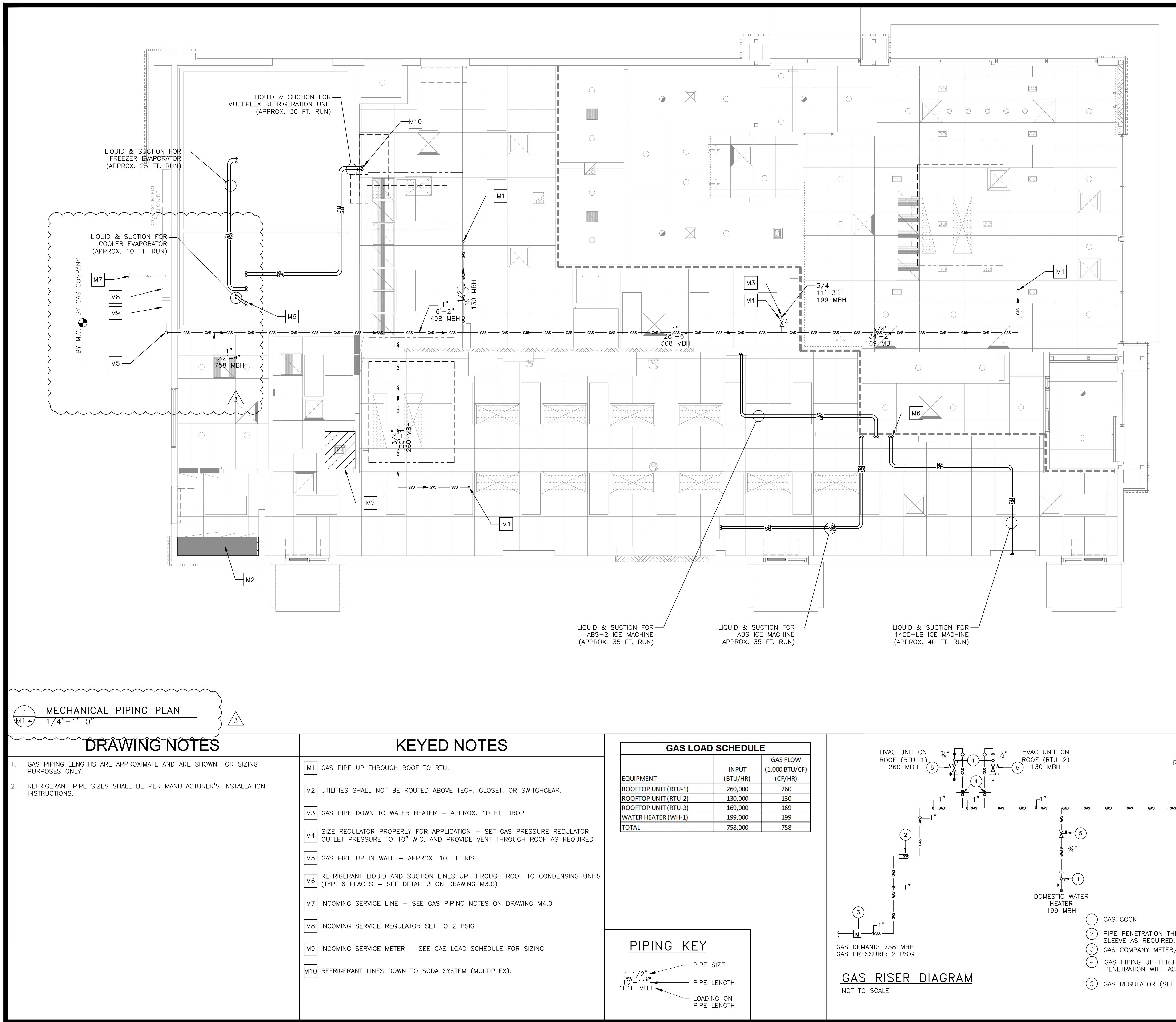
ROBERT D. ANDERSON
4403 Zinn Rd.
Garland, TX 75043
Firm No. T-5324
07/28/26

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TITLE	JAWA 24-0107
DESCRIPTION	2024 STANDARD BUILDING - BB20 4584-WOOD/WOOD WOOD BEARING WALLS WITH HARDE SIDING WOOD/SLATEN/ALUM/HARDE SIDING EXTERIOR FINISHES SITE ADDRESS 13620 E US 290 HWY WEB, MANSFIELD, TEXAS
REV	3
DATE ISSUED	07/19/2024
REVIEWED BY	JAW
STD ISSUE DATE	2024





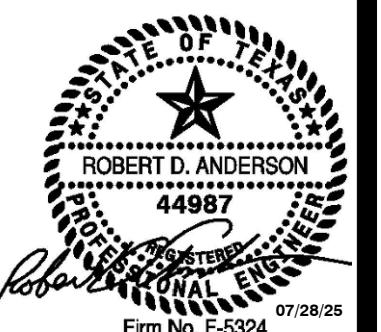
Robert D. Anderson ,Inc.
MEP Engineering & Design Consultants
HVAC*Illumination*Plumbing*Power Distribution*Controls

Robert D. Anderson
4403 Zion Rd.
Garland ,TX 75043

voice: 972-814-7324
email: robert.d.anderson@sbcglocal.net

contact: Mark Swanson-Project Manager
voice: 817-556-0986
email: mark@mepdesigntx.com

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The McDonald's logo, featuring the golden arches and the word "McDonald's" in its signature script font, with a registered trademark symbol (®) at the end.

McDonald's USA, LLC

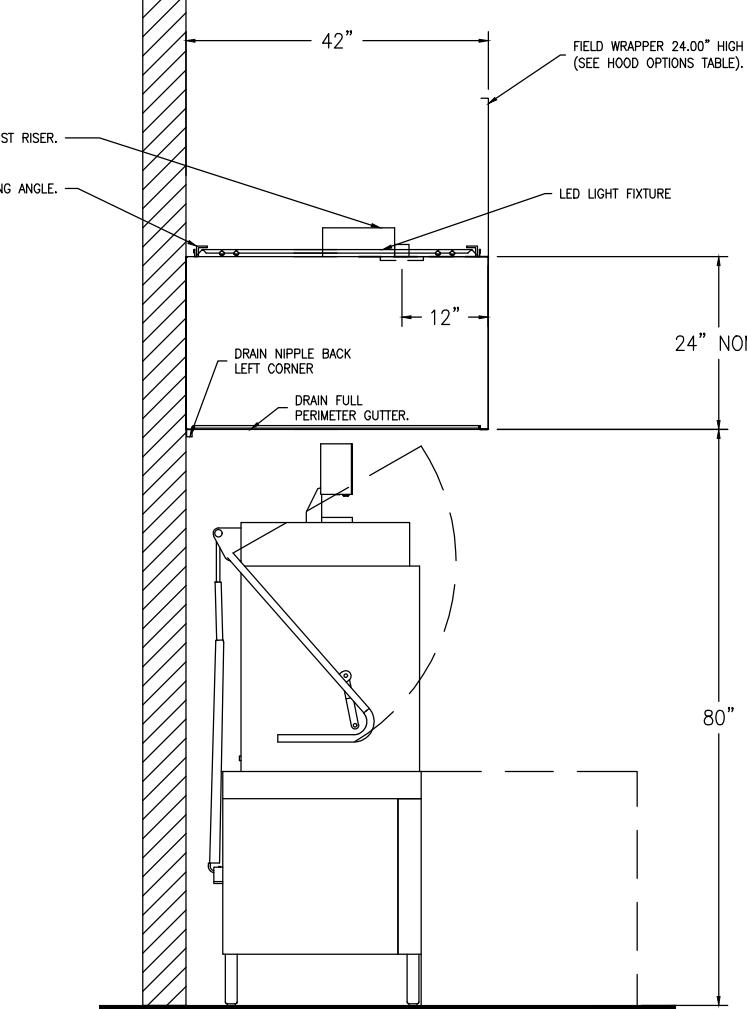
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TITLE	2024 STANDARD BUILDING – BB20		
	MES	STD ISSUE DATE	DATE ISSUED
DESCRIPTION	4584 – WOOD/WOOD	REVIEWED BY JAW	07/19/2024
	WOOD BEARING WALLS WITH HARDIE SIDING WOOD ROOF TRUSS FRAMING EIFS/BATTEN/METAL/HARDIE SIDING EXTERIOR FINISHES	SITE ADDRESS	CU
SITE ID	042-3548 { 13620 E US 290 HWY WB, MANOR TEXAS }		
JAWA	24-0107		
MECH. PIPING PLAN	1	④	

HOOD INFORMATION											
HOOD NO.	TAG	MODEL	LENGTH	COKING TEMP.	APPLIANCE DUTY	DESIGN CFM/M	TOTAL EXH CFM	EXHAUST PLUM& RISERS	HOOD CONSTRUCTION	HOOD CONFIG.	
1	DISH	CLASS 2	48"	NA	DISH	150	600	WOTH. LENGTH. HEIGHT. DIA. CFM. VEL. S.P.	304 SS ALONE ALONE	END TO END TO ROW	

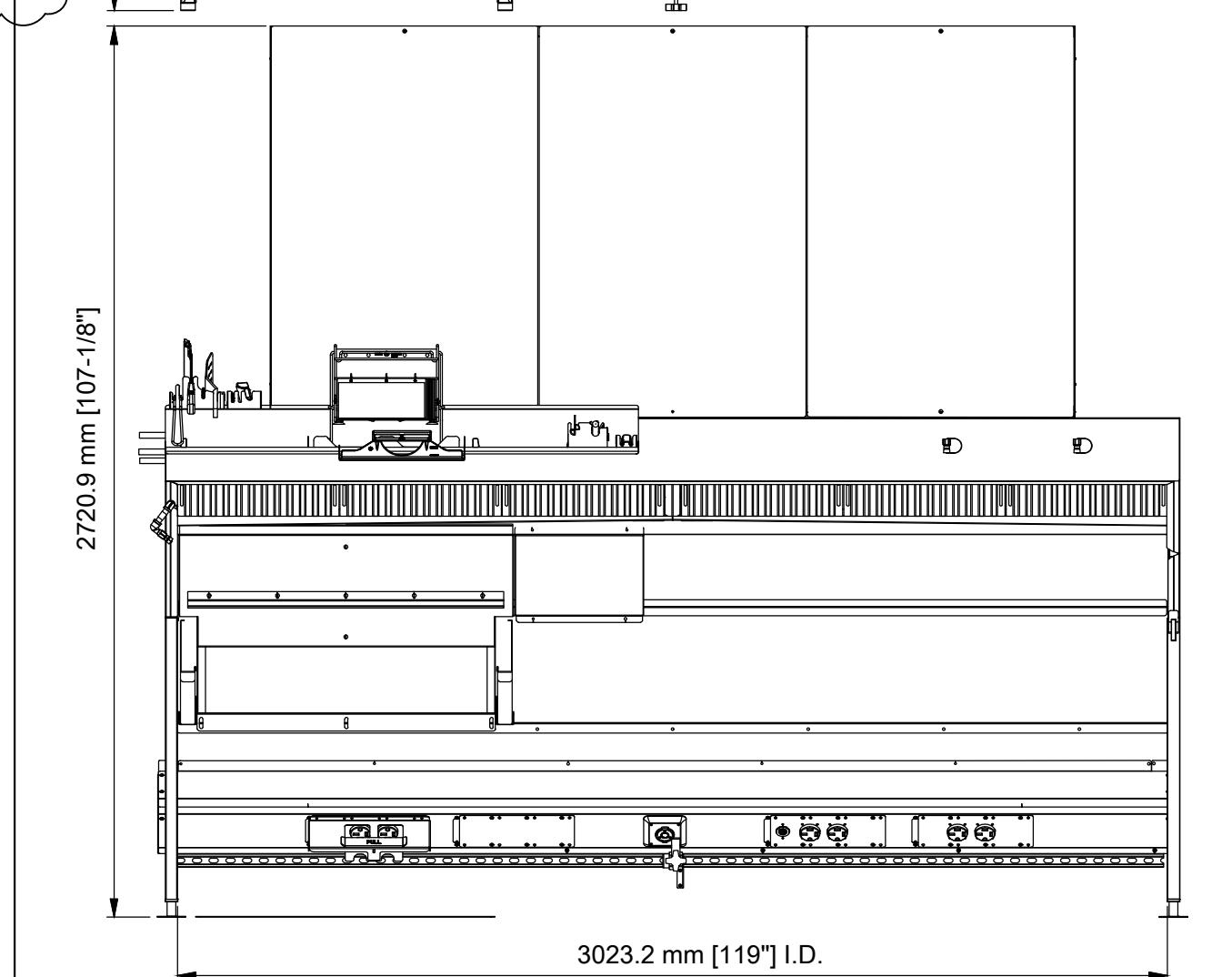
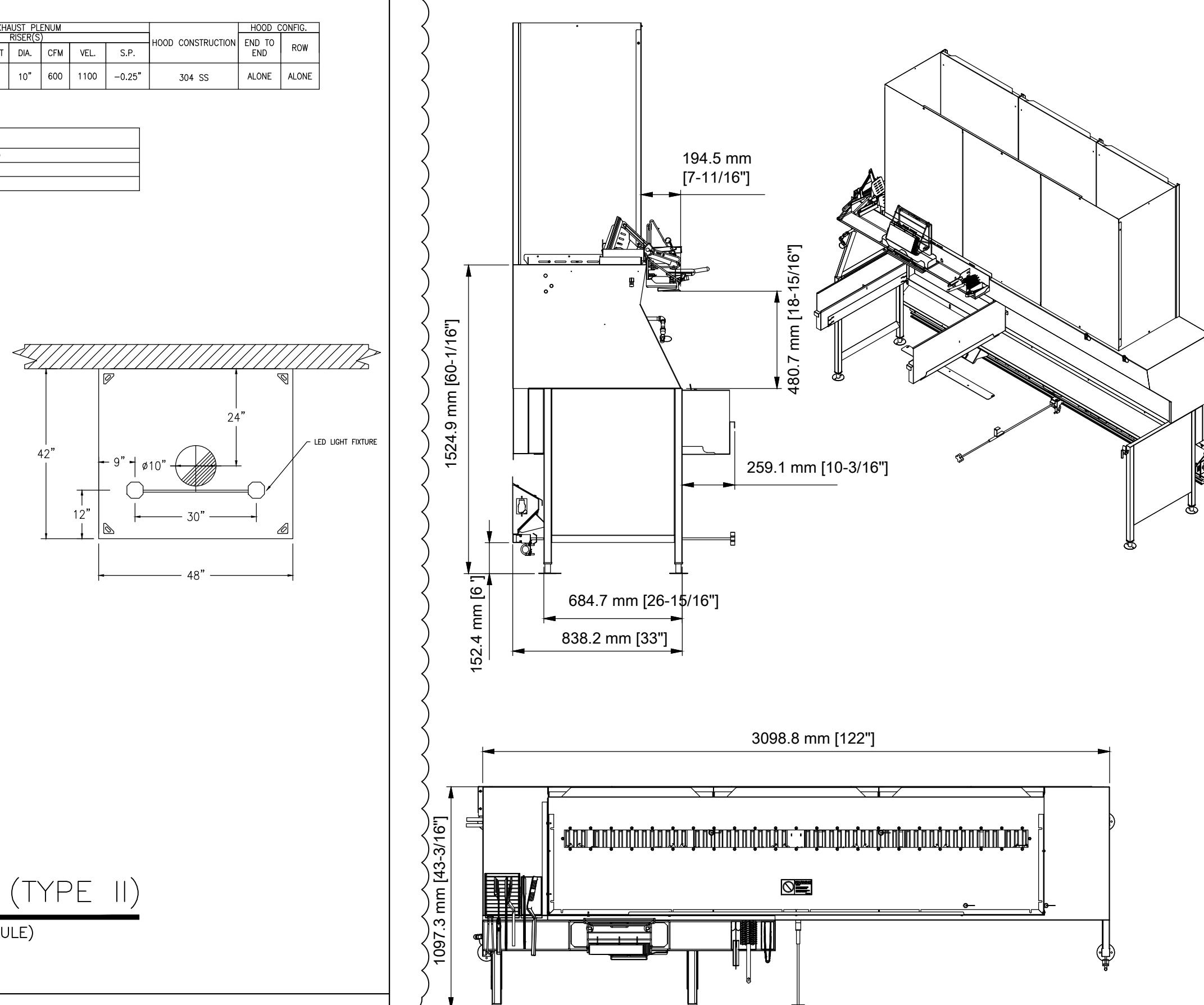
HOOD OPTIONS											
HOOD NO. TAG OPTION											

1 DISH FASCA PANEL 14.00" HIGH FRONT, LEFT, RIGHT (FASCA HEIGHT INCREASES FOR TALLER CEILING)



KITCHEN EXHAUST HOOD (TYPE II)

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

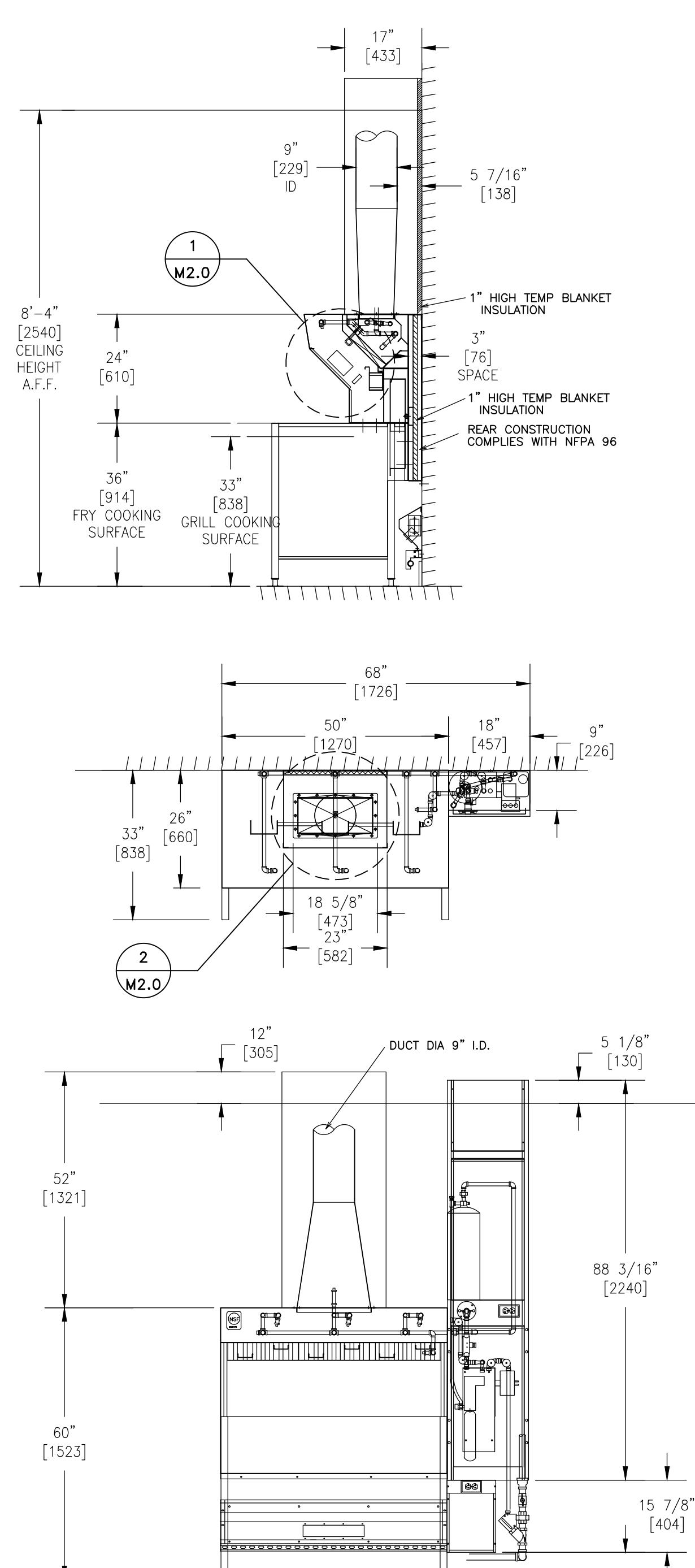


KITCHEN EXHAUST HOOD (TYPE I)

TAG: KH-1 (SEE KITCHEN EXHAUST HOOD SCHEDULE)
SCALE: $\frac{1}{2}''=1'-0''$

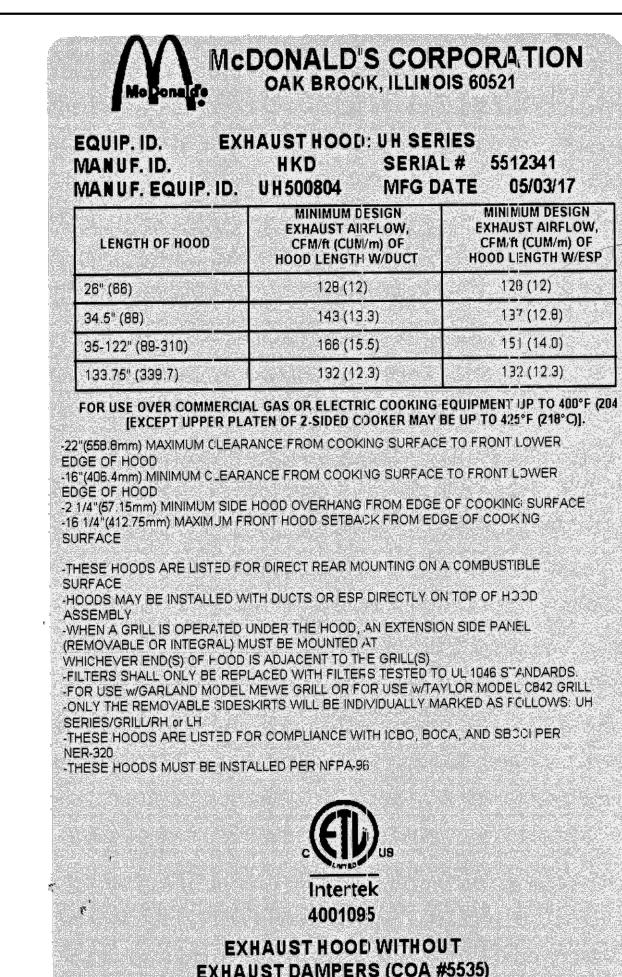
DRAWING NOTES

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

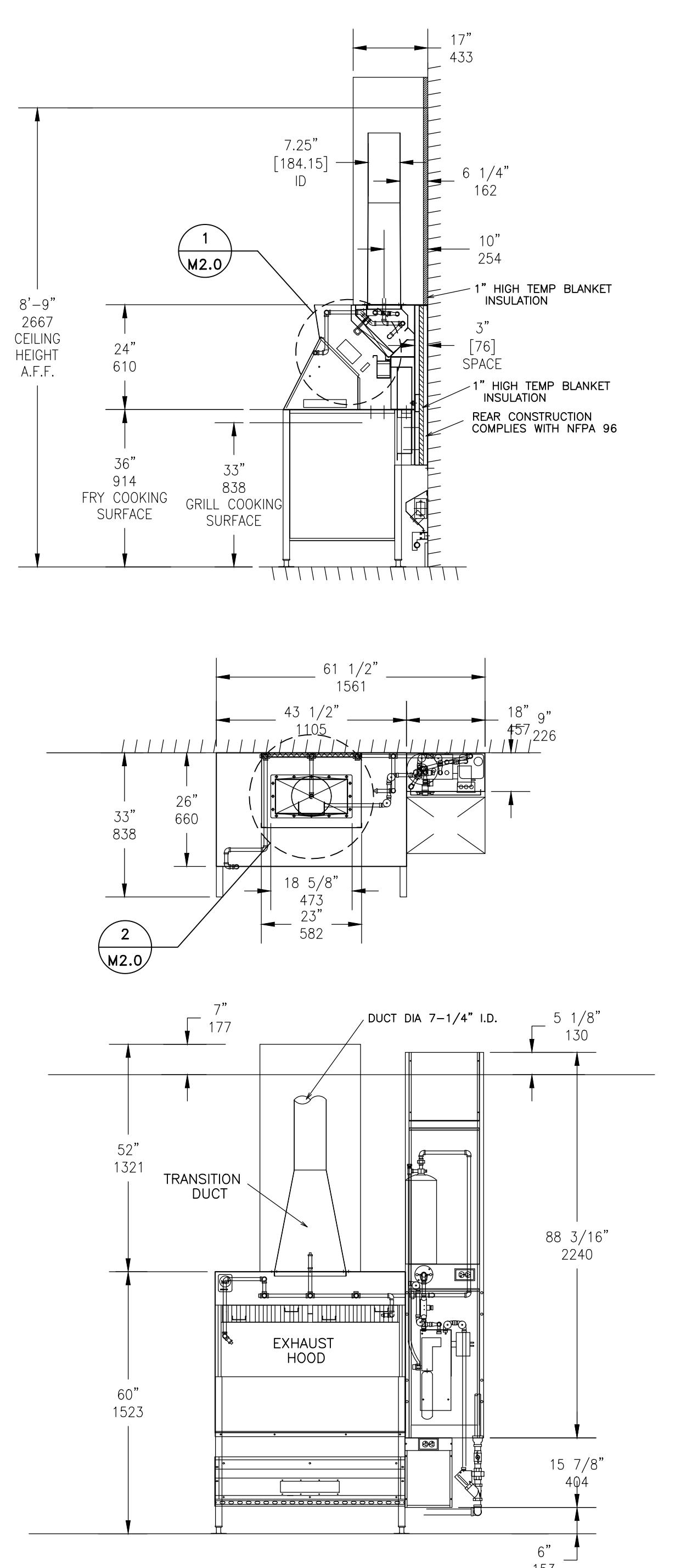


KITCHEN EXHAUST HOOD (TYPE I)

TAG: KH-2 (SEE KITCHEN EXHAUST HOOD SCHEDULE)
SCALE: $\frac{1}{2}''=1'-0''$

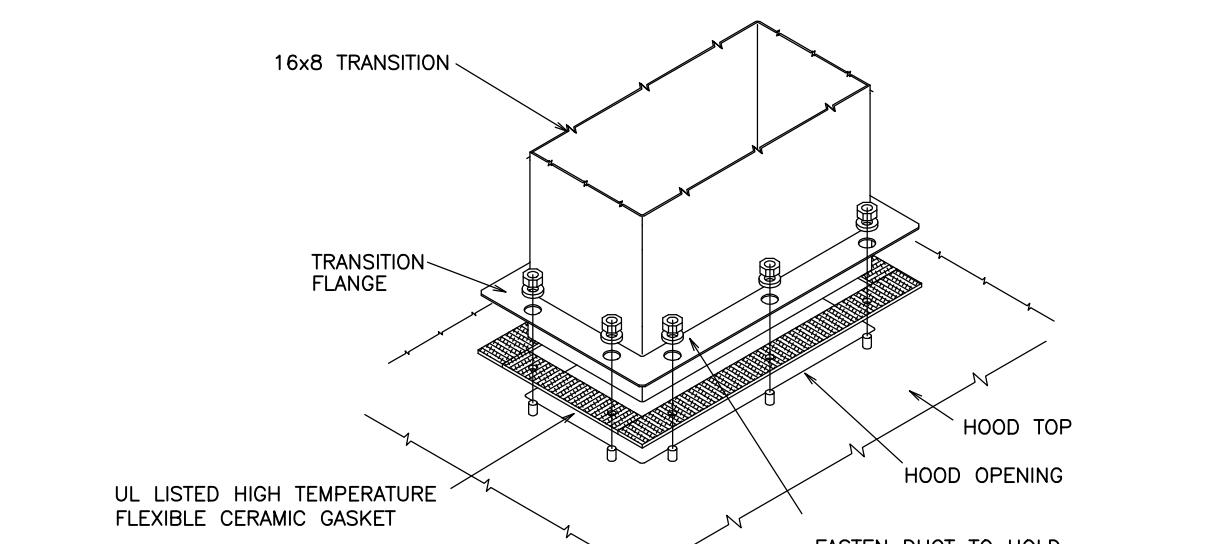


DETAIL
UL LABEL
SCALE: NONE



KITCHEN EXHAUST HOOD (TYPE I)

TAG: KH-3 (SEE KITCHEN EXHAUST HOOD SCHEDULE)
SCALE: $\frac{1}{2}''=1'-0''$



DETAIL
HOOD CONNECTION
SCALE: NONE

DESCRIPTION	REV	DATE
1 09/20/24 MCD OC COMMENTS & FOUNDATION, PLUMBING, AND DOOR UPDATES	1	09/20/24
2 12/20/24 ELEVATIONS, REDESIGN & PROTO UPDATE	2	12/20/24
3 07/24/25 SQUARED OFF BACK & ADDED V/H ARTICULATIONS & UPDATED ADDRESS	3	07/24/25

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07/28/26

McDonald's USA, LLC
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DRAWN BY	STD ISSUE DATE	REVIEWED BY	DATE ISSUED
MES	2024	JAW	07/19/2024

DESCRIPTION: 2024 STANDARD BUILDING - BB20
WOOD BEARING WALLS WITH HARDIE SIDING
WOOD ROOF TRUSS FRAMING
FASTENERS/ METAL/HARDIE SIDING EXTERIOR FINISHES
SITE ADDRESS: 13620 E US 290 HWY WEB, MARION, TEXAS
SITE ID: 042-3548

<p>KEYED NOTES:</p> <ol style="list-style-type: none"> 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) <p>DUCT DROP INSTALLATION SCALE: NONE</p>	<p>CEILING AIR DEVICE - TYPICAL CEILING</p> <p>KEYED NOTES:</p> <ol style="list-style-type: none"> STRUCTURE ALL THREAD ROD ROUND FLEXIBLE DUCT TO TAKE-OFF 1" WIDE, 18 GA. SUPPORT STRAP W/ 5'-0" MAXIMUM SPACING DRAW-BAND CLAMP - TYPICAL EACH END MATERIAL LENGTH TO BE 5 FEET FLEXIBLE DUCT SUPPORT (TITUS FLEXRIGHT OR EQUIVALENT) MAX OFFSET ALLOWABLE: 2-INCHES PER FOOT OF FLEXIBLE DUCT LENGTH R/D=1.0 (MIN) 	<p>REFRIGERANT PIPE INSTALLATION SCALE: NONE</p> <p>KEYED NOTES:</p> <ol style="list-style-type: none"> 1. REFRIGERANT LIQUID LINE 2. SHUT-OFF VALVE 3. PRESSURE REGULATOR (PROPERLY SIZED FOR APPLICATION) 4. STAINLESS STEEL CLAMP 5. APPLY WEATHERPROOFING OVER FOAM INSULATION (ALUMAGUARD BY POLYGUARD OR EQUAL) 6. WRAP FOAM INSULATION OVER PIPE PORTAL NIPPLE AND STAINLESS STEEL CLAMP 7. REPAIR FOAM INSULATION IMMEDIATELY AFTER PIPE PORTAL INSULATION 8. INSULATE BOTTOM OF ROOF PORTAL CURB (MIN. R-19) 9. PIPE HANGER 10. LIGHT GAUGE GALVANIZED STEEL PROTECTIVE SHIELD 	<p>GAS PIPE INSTALLATION SCALE: NONE</p> <p>KEYED NOTES:</p> <ol style="list-style-type: none"> 1. GAS PIPING 2. SHUT-OFF VALVE 3. PRESSURE REGULATOR 4. MOUNT SENSOR(S) BETWEEN 4'-0" TO 4'-6" A.F.F. 5. DIRT LEG 6. ROOFTOP UNIT ENTRY 7. UNION (TYP.) 	<p>REMOTE SENSOR INSTALLATION SCALE: NONE</p> <p>KEYED NOTES:</p> <ol style="list-style-type: none"> 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.
<p>KEYED NOTES:</p> <ol style="list-style-type: none"> 1. 180" x 3" W x 14" H EQUIPMENT PLATFORM MANUFACTURED BY RPS OR EQUAL 2. 28" x 24" W x 19 1/4" H CONDENSING UNIT (COOLER) 3. 4 3/4" x 30" W x 29 1/2" H CONDENSING UNIT (FREEZER) 4. 29" x 24 1/2" W x 34" 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 <p>REFRIGERANT PIPING SIZES: SEE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR RECOMMENDED REFRIGERANT PIPE SIZING</p> <p>REFRIGERANT PIPING SIZES: SEE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR RECOMMENDED REFRIGERANT PIPE SIZING</p> <p>REMOTE CONDENSER UNITS (CU-4, CU-5 & CU-6) SCALE: 1/2"=1'-0"</p>	<p>VIEW TOWARDS REAR OF KITCHEN AT DUCT DROPS SCALE: 1/2"=1'-0"</p> <p>KEYED NOTES:</p> <ol style="list-style-type: none"> 1. PLUM 2. CANVAS COLLAR 3. TAKEOFF 4. 24" x 24" 5. 4' - 11" 6. 1' - 8" 7. 4" 8. 2' - 0" 9. 1' - 8" 	<p>REMOTE CONDENSER UNIT (CU-1, CU-2 & CU-3) SCALE: 1/2"=1'-0"</p> <p>KEYED NOTES:</p> <ol style="list-style-type: none"> 1. 14 1/2" x 27" x 14" H EQUIPMENT PLATFORM MANUFACTURED BY RPS OR EQUAL 2. 34" x 24 1/2" x 25 1/2" 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. 29 1/2" x 28" x 38" H CONDENSING UNIT <p>REFRIGERANT PIPING SIZES: (1) 3/4" POWER (1) 3/4" CONTROL</p> <p>REFRIGERANT PIPING SIZES: (1) 3/4" POWER (1) 3/4" CONTROL</p>	<p>KEYED NOTES:</p> <ol style="list-style-type: none"> 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 1/2" THICK DUCT WRAP TO MEET ASTM E2353 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 3/8" TYPE X GYPSUM BOARD OR 1/2" 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. 1/2" PER FOOT SLOPE PITCHED BACK TOWARDS THE HOOD. <p>KITCHEN EXHAUST HOOD INSTALLATION SCALE: 1/2"=1'-0"</p>	<p>RTU-1 (20 TONS) & RTU-3 (15-TONS)</p> <p>KEYED NOTES:</p> <ol style="list-style-type: none"> 1. 22" x 46" x 27" H PLENUM BOX 2. 24" x 48" 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.
<p>SECTION KITCHEN EXHAUST HOOD INSTALLATION SCALE: 1/2"=1'-0"</p>	<p>SECTION ROOF OPENINGS SCALE: 1/2"=1'-0"</p>	<p>SECTION SUPPLY (S-1) PLENUM INSTALLATION SCALE: 1/2"=1'-0"</p>	<p>SECTION SUPPLY (S-1) PLENUM INSTALLATION SCALE: 1/2"=1'-0"</p>	<p>PREPARED FOR: McDonald's USA, LLC</p> <p>DRAWN BY: Robert D. Anderson, Inc.</p> <p>STD ISSUE DATE: 09/20/24</p> <p>REVIEWED BY: JAW</p> <p>DATE ISSUED: 07/19/2024</p> <p>TITLE: 2024 STANDARD BUILDING - BB20</p> <p>DESCRIPTION: 4584-WOOD/WOOD</p> <p>WOOD BEARING WALLS WITH HARDIE SIDING</p> <p>WOOD ROOF TRUSS FRAMING</p> <p>EIPS/BATTEN/METAL/HARDIE SIDING EXTERIOR FINISHES</p> <p>SITE ID: 042-3548</p> <p>SITE ADDRESS: 13620 E 290 HWY MANSFIELD, TEXAS</p> <p>JAWA 24-0107</p> <p>DETAILS: M3.0</p> <p>KEYED NOTES:</p> <ol style="list-style-type: none"> 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.

MECHANICAL NOTES

- GENERAL:**
- ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
 - ALL DIMENSIONS, CLEARANCES AND TOLERANCES SHALL BE VERIFIED PRIOR TO INSTALLATION.
 - 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.
 - ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH ITS LISTING AND/OR THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - SEE COORDINATION SCHEDULE FOR ADDITIONAL SCOPE OF WORK.
 - 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.ABCHQ.COM/DIRECTORY](http://WWW.ABCHQ.COM/DIRECTORY)
[HTTP://WWW.NEIB.ORG/DIRECTORY.HTM](http://WWW.NEIB.ORG/DIRECTORY.HTM)
[HTTP://WWW.TABBCERTIFIED.ORG/SITE/CONTENT/CONTRACTORS/SEARCH](http://WWW.TABBCERTIFIED.ORG/SITE/CONTENT/CONTRACTORS/SEARCH)
 - UPON COMPLETION OF THE PUNCHLIST, THE MECHANICAL CONTRACTOR AND TEST AND BALANCE CONTRACTOR SHALL SUBMIT REDLINE 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.
 - ALL PENETRATIONS OF FIRE-RATED WALLS SHALL BE FIRESTOPPED WITH AN APPROVED AND LISTED FIRESTOPPING SYSTEM.

VENTILATION SYSTEMS:

 - ALL SHEET METAL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH LOCAL CODES AND SMACNA STANDARDS.
 - ALL DUCTWORK DIMENSIONS ARE INTERNAL FREE AREA DIMENSIONS AND SIZED FOR 0.08" W.C. PER 100 FT. OF DUCT.
 - 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.
 - 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.
 - ALL DUCT DROPS INTO THE BUILDING SHALL BE OFFSET AS NECESSARY TO ALLOW FOR THE CLEAN INSTALLATION OF THE EXTERNAL DUCTWORK INSULATION.
 - 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 MT-12 FOR DAMPER LOCATIONS. VOLUME DAMPER SHALL HAVE A 2" OFFSET TO ACCOMMODATE EXTERNAL INSULATION.
 - 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.
 - 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.
 - ALL SUPPLY AND RETURN SHEET METAL DUCTWORK LOCATED WITHIN THE CEILING SPACE SHALL BE INTERNALLY INSULATED. INSULATION SHALL BE 2" THICK MICROLITE FSK-100 BY JOHNS MANVILLE OR EQUAL.
 - 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.
 - 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 SPIRAACUSTIC PLUS BY JOHNS MANVILLE OR EQUAL.
 - 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.
 - 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.
 - 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
SUPPLY	2.00" W.C.	A	TYPE A (R-8)
RETURN	-2.00" W.C.	A	TYPE A (R-8)
EXHAUST	-2.00" W.C.	A	(*)TYPE A (R-8)
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.

- 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.
- 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.
- ALL SUPPLY AIR DIFFUSERS SHALL BE INSULATED TO PREVENT CONDENSATION.
- ALL AIR DEVICES LOCATED IN DRYWALL CEILINGS SHALL BE SUPPLIED WITH AN INTEGRAL VOLUME DAMPER ACCESSIBLE FROM THE AIR DEVICE FACE TO FACILITATE BALANCING.
- 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.
- 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:

 - 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).
 - ALL GREASE EXHAUST DUCTWORK JOINTS SHALL BE EITHER TELESCOPING OR BELL TYPE. BUTT-WELDED JOINTS ARE PROHIBITED.
 - 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.
 - 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.
 - 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".
 - ALL HORIZONTAL GREASE EXHAUST DUCTWORK SHALL BE INSTALLED WITH A MINIMUM $\frac{1}{4}$ " PER FOOT SLOPE AND SHALL BE PITCHED BACK TOWARD THE HOOD.
 - 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:

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

MATERIAL	MAX. HORIZ. SPACING	MAX. VERT. SPACING
COPPER TUBING $\leq \frac{1}{4}$ "	6 FT.	10 FT.
COPPER TUBING $\geq \frac{1}{2}$ "	10 FT.	10 FT.
 - ALL REFRIGERANT PIPING SHALL BE SIZED PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
 - 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.
 - ALL PIPE INSULATION SHALL BE PROTECTED FROM DAMAGE FROM PIPE HANGERS. PROTECTION SHALL BE LIGHT GAUGE GALVANIZED STEEL OR EQUAL.
 - ALL REFRIGERANT PIPING SYSTEMS SHALL BE PRESSURE TESTED FOR LEAKS PRIOR TO START-UP. ALL LEAKS SHALL BE REMEDIED PRIOR TO BUILDING TURNOVER.
 - 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:

 - 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.
 - 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.
 - 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.
 - 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:

 - 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.
 - 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 REGULATOR TO FARTHEST APPLIANCE
 C. 1,000 BTU PER CU. FT. OF NATURAL GAS
 - GAS PIPING RUN-OUTS TO EQUIPMENT ARE SIZED BASED ON THE FOLLOWING:
 A. SUPPLY PRESSURE AT THE REGULATOR OF 10" W.C. (2 PSIG)
 B. 0.5" W.C. PRESSURE DROP FROM REGULATOR TO FARTHEST APPLIANCE
 C. 1,000 BTU PER CU. FT. OF NATURAL GAS
 - 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.
 - 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
$\frac{1}{2}"$	6 FT.	6 FT.
$\frac{3}{4}"$ TO 1"	8 FT.	8 FT.
$\geq \frac{1}{2}"$	10 FT.	10 FT.

- GAS PIPING SHALL NOT PENETRATE ANY FIRE-RATED CHASE OR SHAFT, DUCTWORK OR PLenum.
- ALL NATURAL GAS PIPING INSTALLED OUTDOORS SHALL BE COATED WITH A CORROSION RESISTANT PAINT. PAINT COLOR SHALL BE ORANGE OR YELLOW.
- 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.
- 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.
- 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.

- 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.

- IF THE MINIMUM PRESSURES ARE NOT MET, THIS SHALL BE IMMEDIATELY REPORTED TO THE McDONALD'S AREA CONSTRUCTION MANAGER.

CONDENSATE PIPING:

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

- CONDENSATE PIPING SHALL SLOPE A MINIMUM OF $\frac{1}{8}$ " PER FOOT.

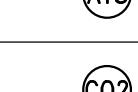
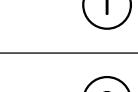
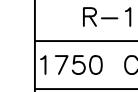
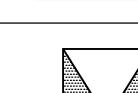
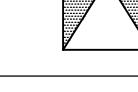
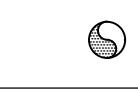
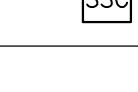
- CONDENSATE PIPING SHALL BE SIZED BASED ON THE FOLLOWING:

TOTAL TONS SERVED BY PIPE	MINIMUM PIPE SIZE
<20 TONS	$\frac{3}{4}"$
>20 TONS, <40 TONS	1"
>40 TONS, <125 TONS	$\frac{1}{2}"$

PREPARED FOR:

 McDonald's USA, LLC

These drawings and specifications are the confidential and proprietary

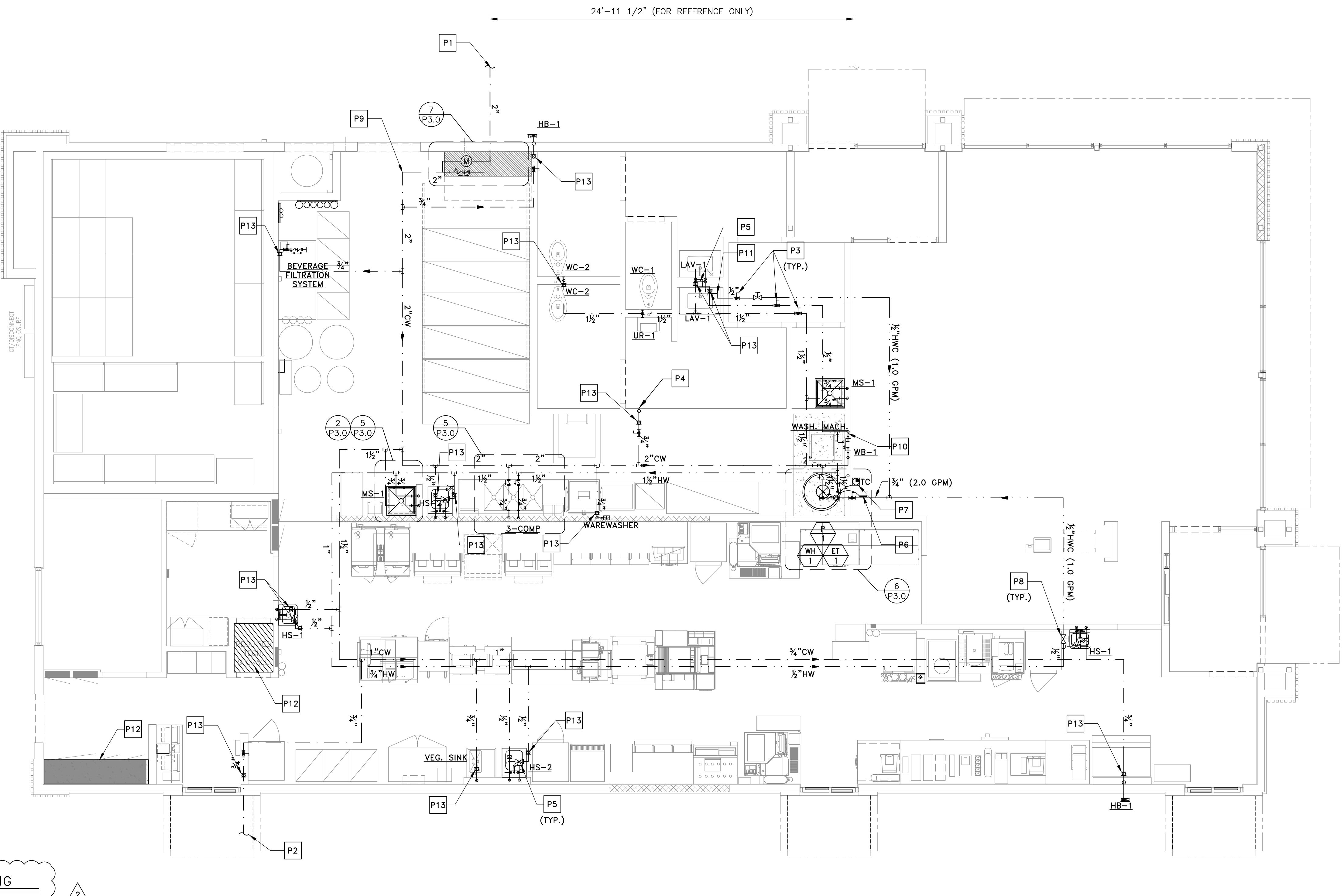
LEGEND	ABBREVIATIONS
 TEMPERATURE SENSOR	ACM AREA CONSTRUCTION MANAGER
 AVERAGING TEMPERATURE SENSOR	B.J. BELOW JOISTS
 CO2 SENSOR FOR ROOFTOP UNIT DEMAND CONTROL VENTILATION	BSI BEVERAGE SYSTEM INSTALLER
 HUMIDITY SENSOR	DCV DEMAND CONTROL VENTILATION
 THERMOSTAT	E.A. EXHAUST AIR
 SMOKE DETECTOR	EC ELECTRICAL CONTRACTOR
 EQUIPMENT TAG	FAC FIRE ALARM CONTRACTOR
 DIFFUSER INFORMATION 1750 CFM 18"Ø	FOB FLAT ON BOTTOM
 FOT FLAT ON TOP	
 SUPPLY AIR DUCT (VERTICAL)	FPC FIRE PROTECTION CONTRACTOR
 GC GENERAL CONTRACTOR	
 I.D. INSIDE DIMENSION	
 KEI KITCHEN EQUIPMENT INSTALLER	
	
	KES KITCHEN EQUIPMENT SUPPLIER
 STEADY-STATE SPEED CONTROLLER	M.A. (S) MIXED AIR - SUMMER
 PLAQUE DIFFUSER (SHADED AREA DESIGNATES BLANK-OFF PANEL LOCATION)	M.A. (W) MIXED AIR - WINTER
 PLATE DIFFUSER	MC MECHANICAL CONTRACTOR
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COORDINATION SCHEDULE

	FURNISH	INSTALL	FINAL CONNECTION	NOTES
GENERAL REQUIREMENTS				
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				
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 BACKSHLF 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		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		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		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
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 SPRINKLER 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

COORDINATION SCHEDULE

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 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 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.				

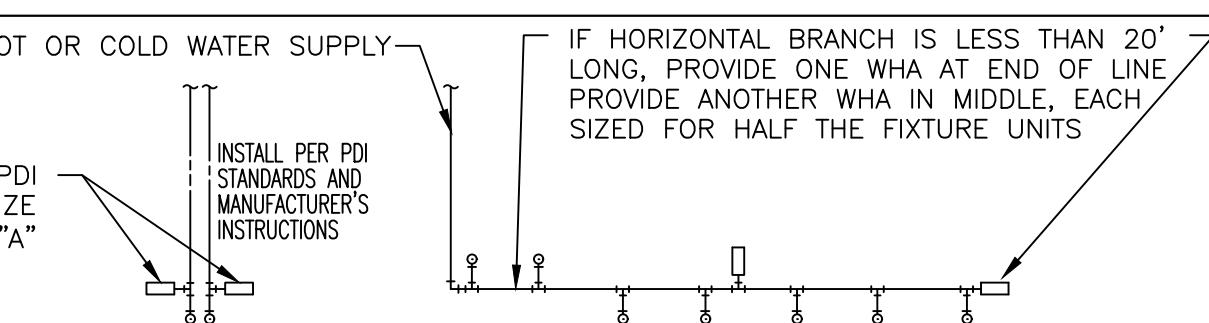


DRAWING NOTES

- 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.
 - 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.
- 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 3/4" 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 RECIRCULATION 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.

KEYED NOTES

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.



PDI SIZE "A"	SINGLE FIXTURE	MULTIPLE FIXTURES
A 1/2"	1-11	IF HORIZONTAL BRANCH IS LESS THAN 20' LONG, PROVIDE ONE WHA AT END OF LINE. PROVIDE ANOTHER WHA IN MIDDLE, EACH SIZED FOR HALF THE FIXTURE UNITS
B 3/4"	12-32	

PC TO PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WHH-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

WATER-HAMMER ARRESTER (TYP.)
NOT TO SCALE

Fixture Count - IPC

NO.	Fixture Description	SUPPLY CONNECTIONS			REVIEW BY JAW	DRAWN BY MES
		WSFU	COLD	HOT		
1	VEGETABLE PREP SINK	4	3/4"	-	4	2024
2	HAND SINK	1	1/2"	1/2"	2	
4	HOSE BIBB	3	3/4"	-	12	
1	SODA FACTORY	10	1"	-	10	
1	KITCHEN SINK (3-COMP)	4	3/4"	3/4"	4	
2	MOP SINK	2	3/4"	3/4"	4	
2	LAVATORY	1	1/2"	1/2"	2	
1	URINAL	5	1"	-	5	
3	WATER CLOSET	5	1 1/2"	-	15	
1	WASHING MACHINE	4	3/4"	3/4"	4	
1	WAREWASHER	4	3/4"	-	4	
						TOTAL: 66
						(55 GPM)

SHEET NO.	TITLE	STD ISSUE DATE	LAST REVISED DATE	PREPARED FOR:
	2024 STANDARD BUILDING - BB20	2024	07/19/2024	McDonald's USA, LLC
	4584 - WOOD/WOOD			These drawings and specifications are the confidential and proprietary documents of McDonald's USA, LLC and shall not be copied or reproduced without the express written permission of McDonald's USA, LLC. These drawings and specifications are intended for use on the specific site in construction. While these drawings and specifications may be used for other sites or at a later time, use of these drawings for reference or example on another project requires the services of properly licensed architects and engineers. Reproduction of these drawings and specifications by any other party is not authorized.
	WOOD BEARING WALLS WITH HARDIE SIDING			
	EIPS/BATTEN/MEAL/HARDIE SIDING EXTERIOR FINISHES			
	SITE ADDRESS: 13620 E US 290 HWY WEB, MANSFIELD, TEXAS			
	SITE ID: 042-3548			
	JAWA 24-0107			

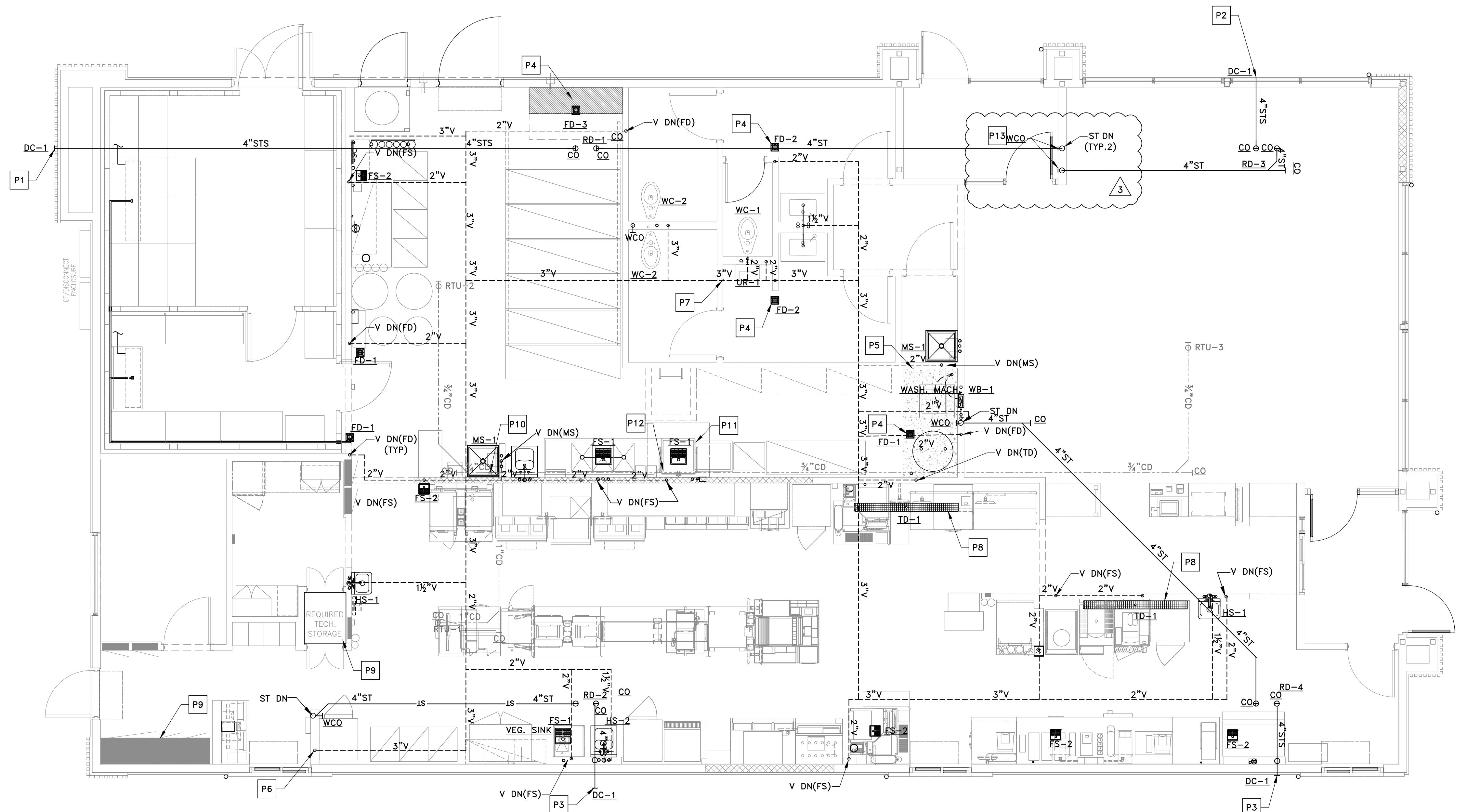
P1.0
DOMESTIC WATER PIPING

1	09/20/24	MCD GC COMMENTS & FOUNDATION, PLUMBING, AND DOOR UPDATES
2	12/20/24	ELEVATIONS, REDESIGN & PROTO UPDATE
3	07/24/25	SQUARED OFF BACK & ADDED V/H ARTICULATIONS & UPDATED ADDRESS

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ROBERT D. ANDERSON
4405 ZINN RD
GARLAND, TX 75043
Firm No. T-5324
07/28/26



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 $\frac{1}{2}$ " 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 WALL CLEAN OUTS TO BE INSTALLED 18" A.F.F. ON VESTIBULE SIDE. OPTIONAL: PAINT TO MATCH WALL FINISH FOR CONCEALMENT.

STORM PIPE SIZING

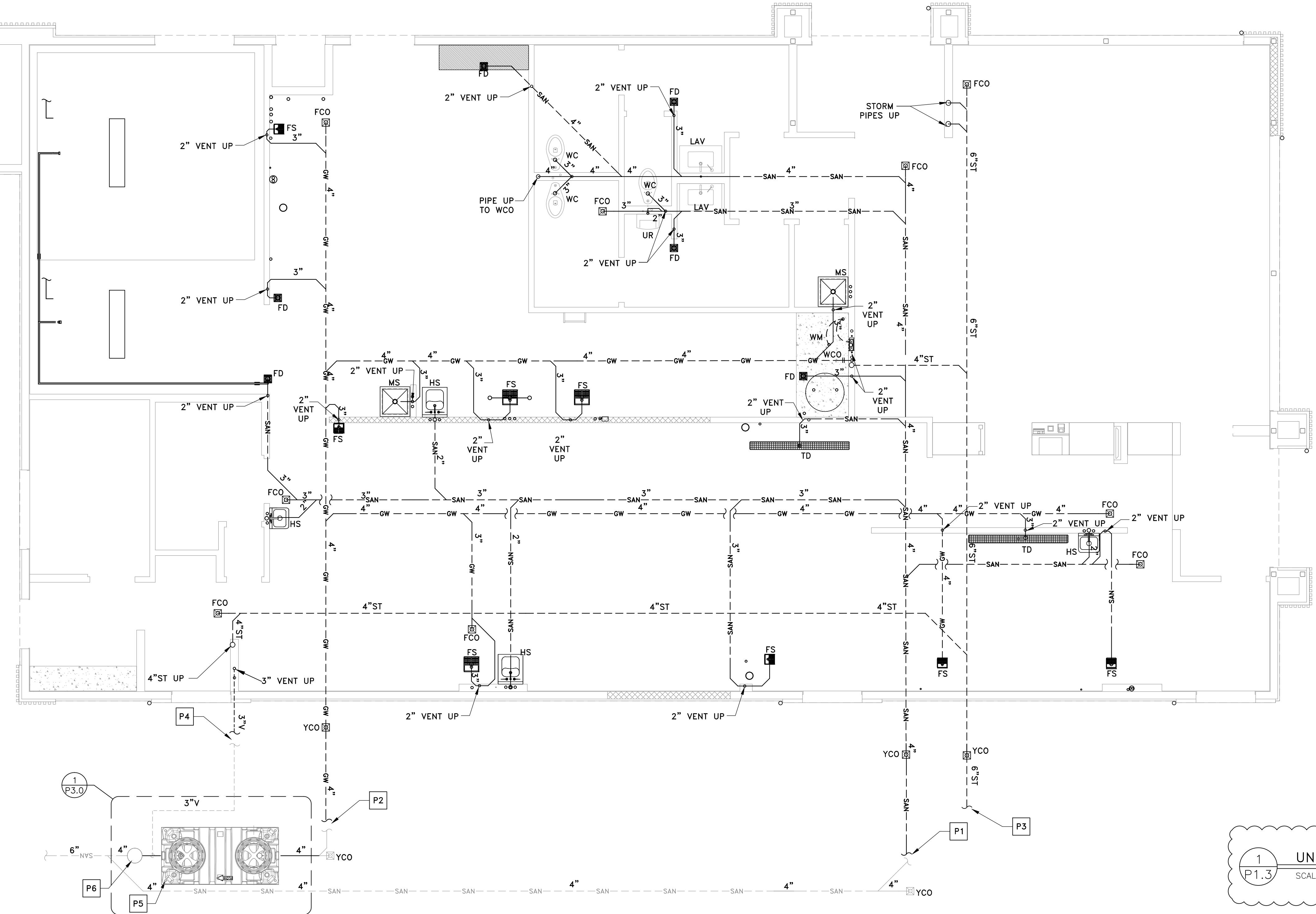
RAINFALL = 10 IN./HR	
MES	STD ISSUE DATE
2024	
VERTICAL LEADERS	
ROOF AREA	SIZE
RD-1	1,140
RD-2	1,221
RD-3	686
RD-4	686
TOTAL	3,733
HORIZONTAL PIPING (SLOPE $\frac{1}{4}$ " PER FOOT)	
ROOF AREA	SIZE
RD-2 & RD-4	1,907
RD-1 & RD-2 & RD-3 & RD-4	3,733

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SHEET NO. P1.2 TITLE 2024 STANDARD BUILDING - BB20
DESCRIPTION 4584 - WOOD/WOOD
DRAWN BY JAW DRAWN BY JAW
DRAFTED BY JAW DRAFTED BY JAW
CHECKED BY JAW CHECKED BY JAW
APPROVED BY JAW APPROVED BY JAW
DATE ISSUED 07/19/2024 DATE ISSUED 07/19/2024
SHEET ADDRESS SITE ID 13620 E US 290 HWY 290, MANSFIELD, TEXAS
SHEET ADDRESS SITE ID 042-3548
BY Robert D. Anderson, Inc.
MEP Engineering & Design Consultants
HVAC/illumination/Plumbing/Power Distribution/Control
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1 UNDERFLOOR PLUMBING PLAN
SCALE: 1/4" = 1'-0"
3

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 INSTALL SAMPLING PORT (IF REQUIRED) SCHIER, MODEL SV10 FOR SCHIER HYDROMECHANICAL GREASE INTERCEPTOR.

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	1½ 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

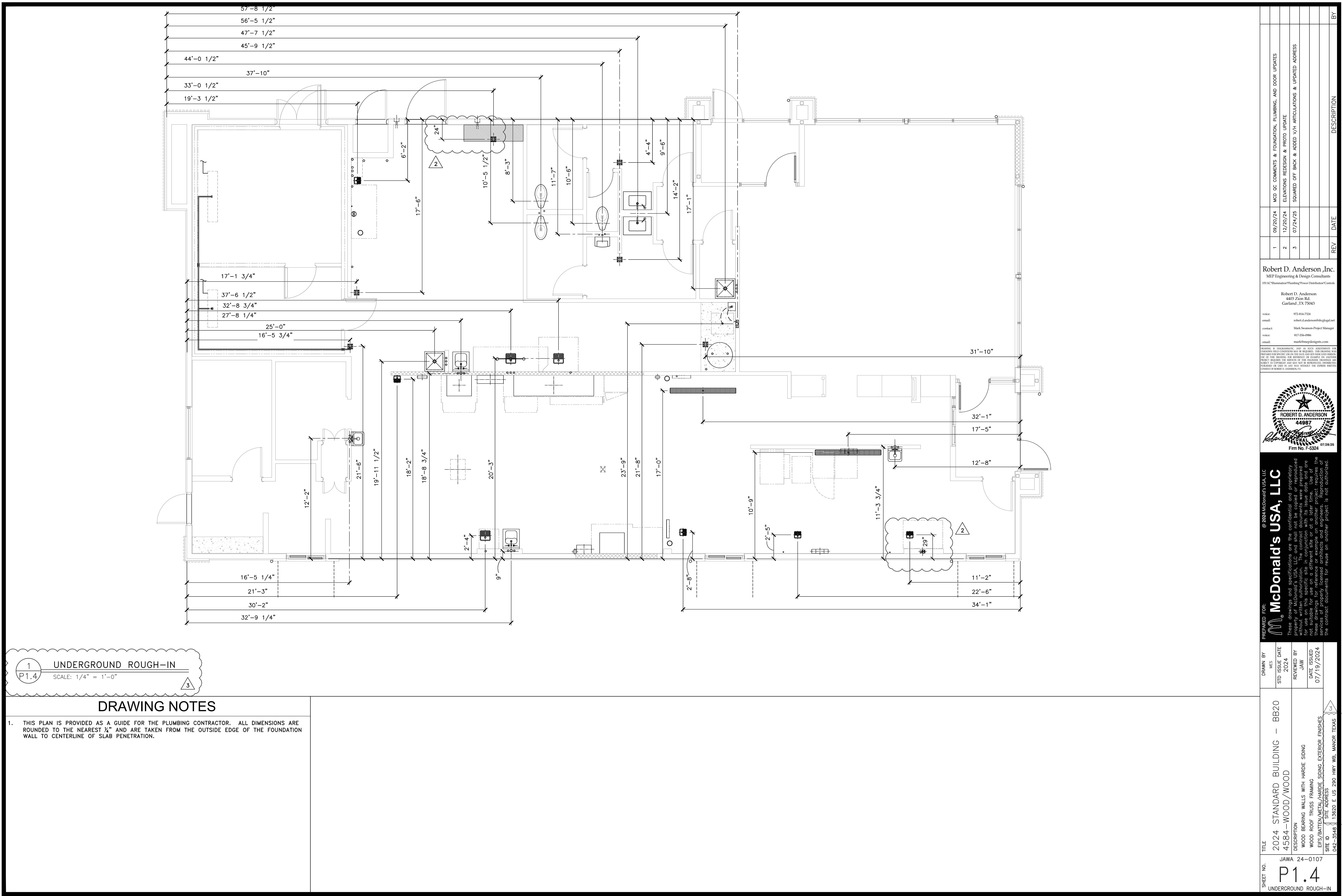
Service Sink (Mop Sink)	3 in.	3	2	6
Floor Drain or Sink	3 in.	5	7	35
Floor Drain or Sink	4 in.	6	1	6
Washing Machine	2 in.	3	1	3
			TOTAL	50

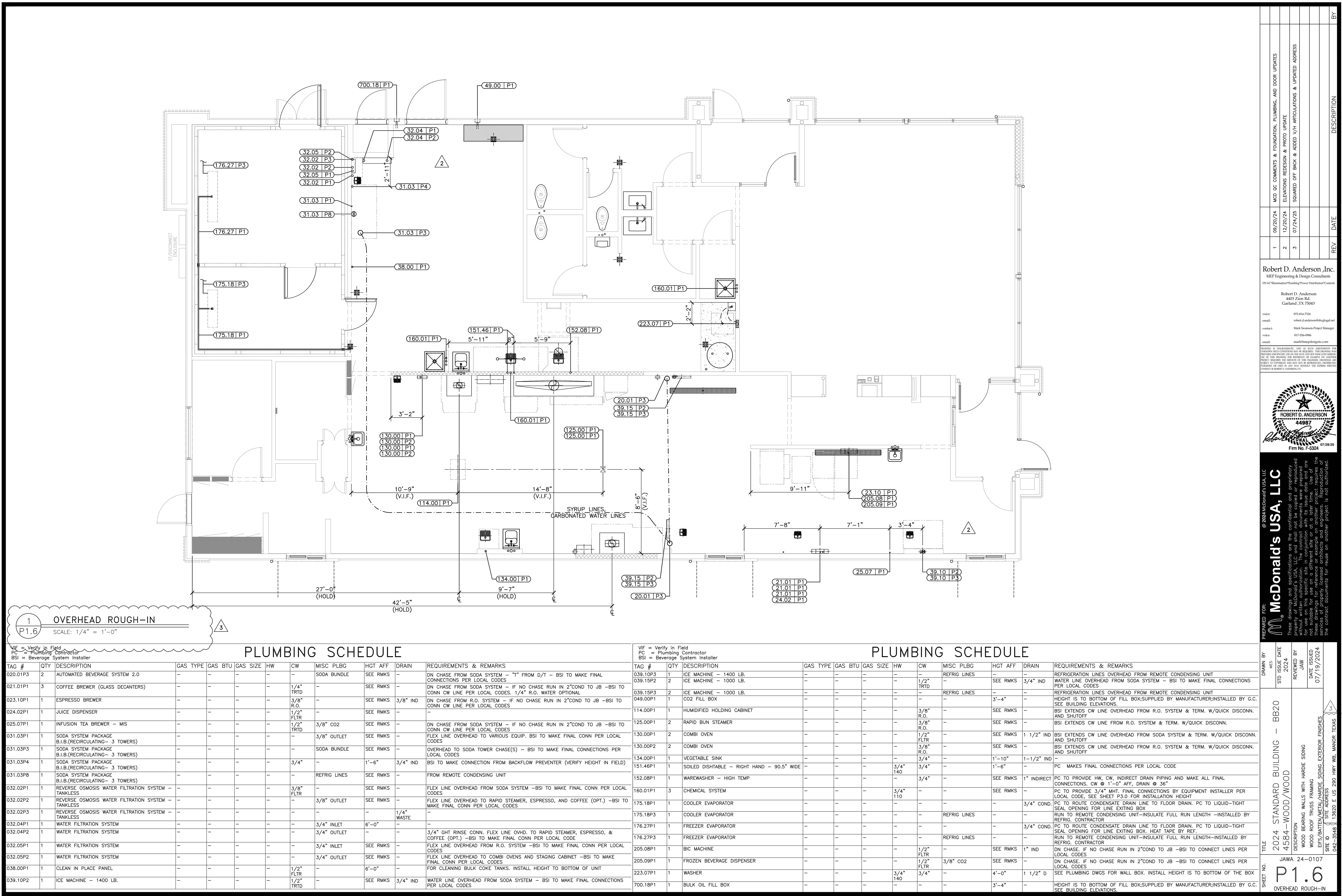
SHEET NO.	JAWA 24-0107
TITLE	2024 STANDARD BUILDING - BB20
STD ISSUE DATE	2024
REVIEWED BY	JAW
DATE ISSUED	07/19/2024
DESCRIPTION	WOOD BEARING WALLS WITH HARDE SIDING WOOD ROOF TRUSSES EIPS/BATTEN/ALUMINUM/HARDE SIDING EXTERIOR FINISHES SITE ADDRESS 13620 E US 290 HWY WEB, MANSFIELD, TEXAS
SITE ID	042-3548
BY	Robert D. Anderson, Inc. MEP Engineering & Design Consultants HVAC/illumination/Plumbing/Power Distributor/Control Robert D. Anderson 4403 Zinn Rd., Garland, TX 75043 voice: 972-814-7204 email: robert.anderson@boglegal.net contact: Mark Swanson, Project Manager voice: 817-556-0986 email: mark@mpdesigns.com

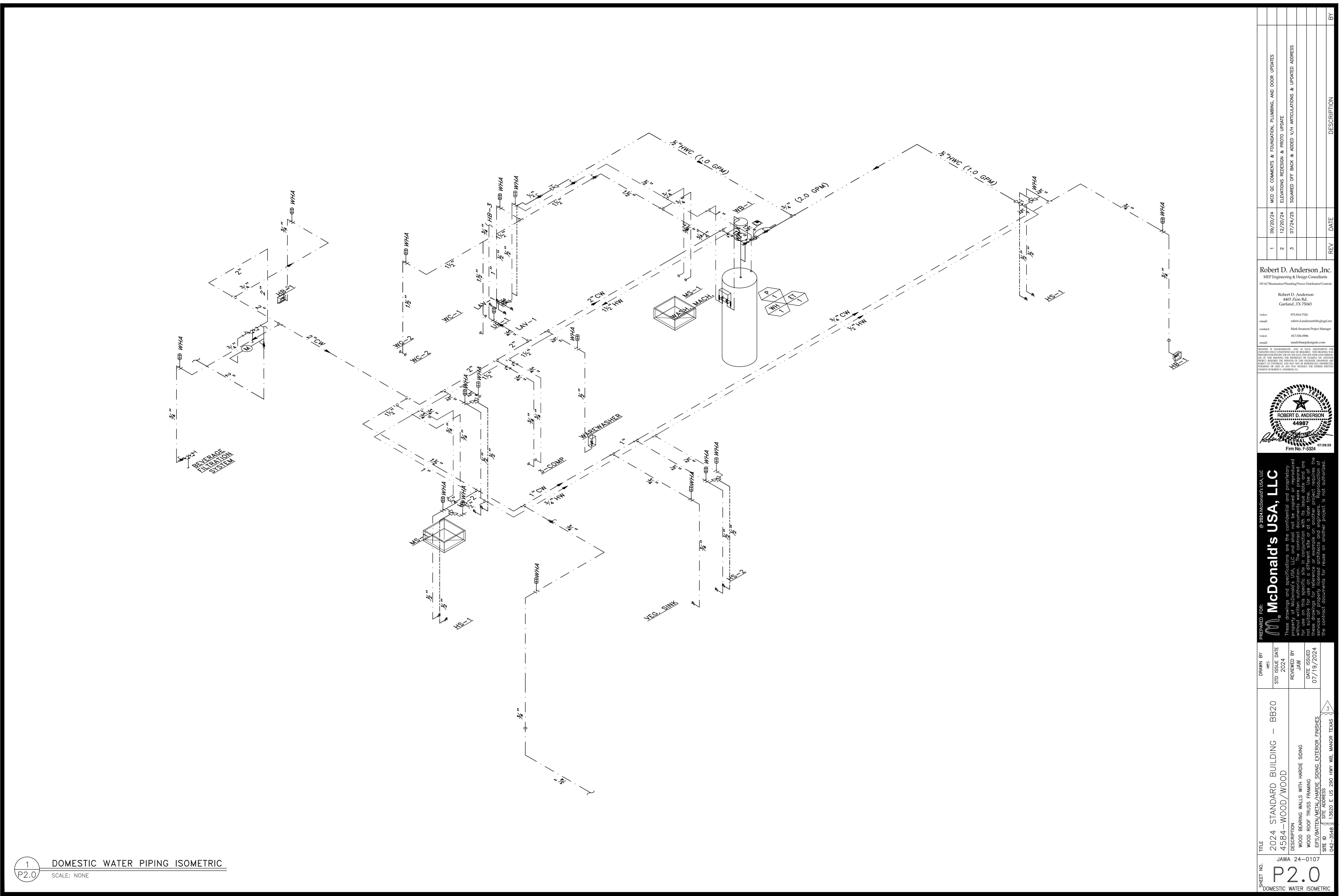
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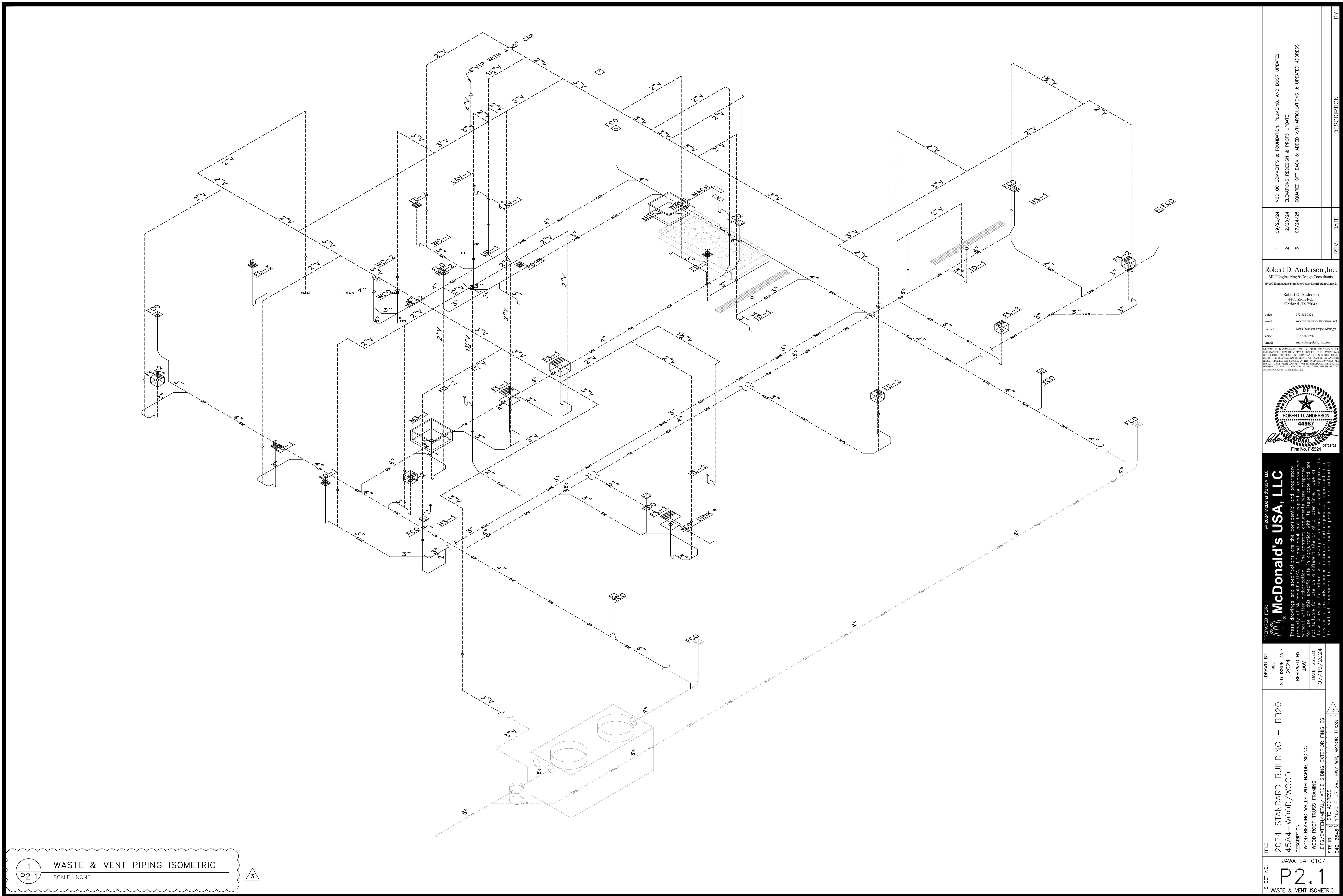
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2	12/20/24	ELEVATIONS REDESIGN & PROTO UPDATE
3	07/24/25	SQUARED OFF BACK & ADDED V/H ARTICULATIONS & UPDATED ADDRESS
REV	DATE	DESCRIPTION

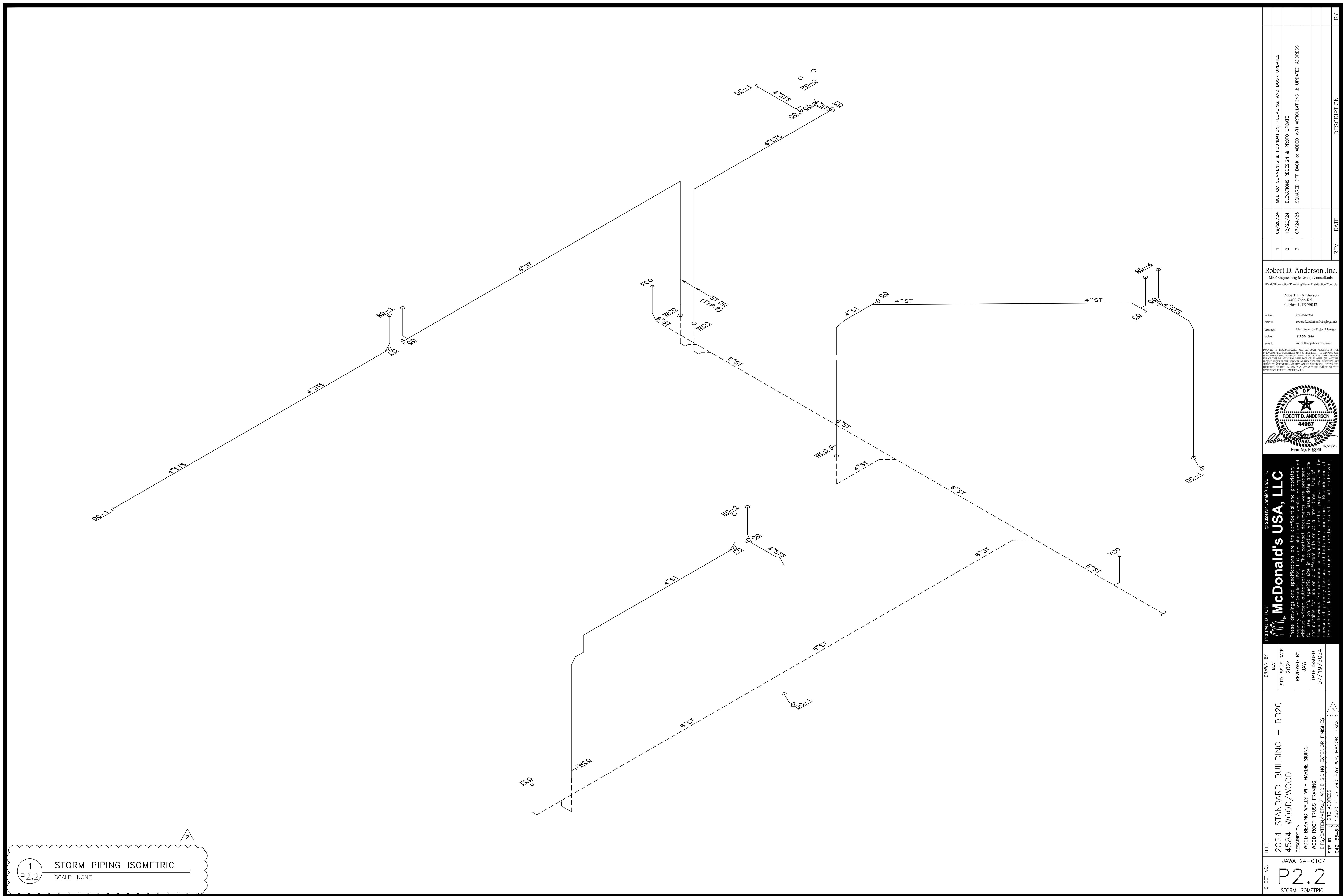
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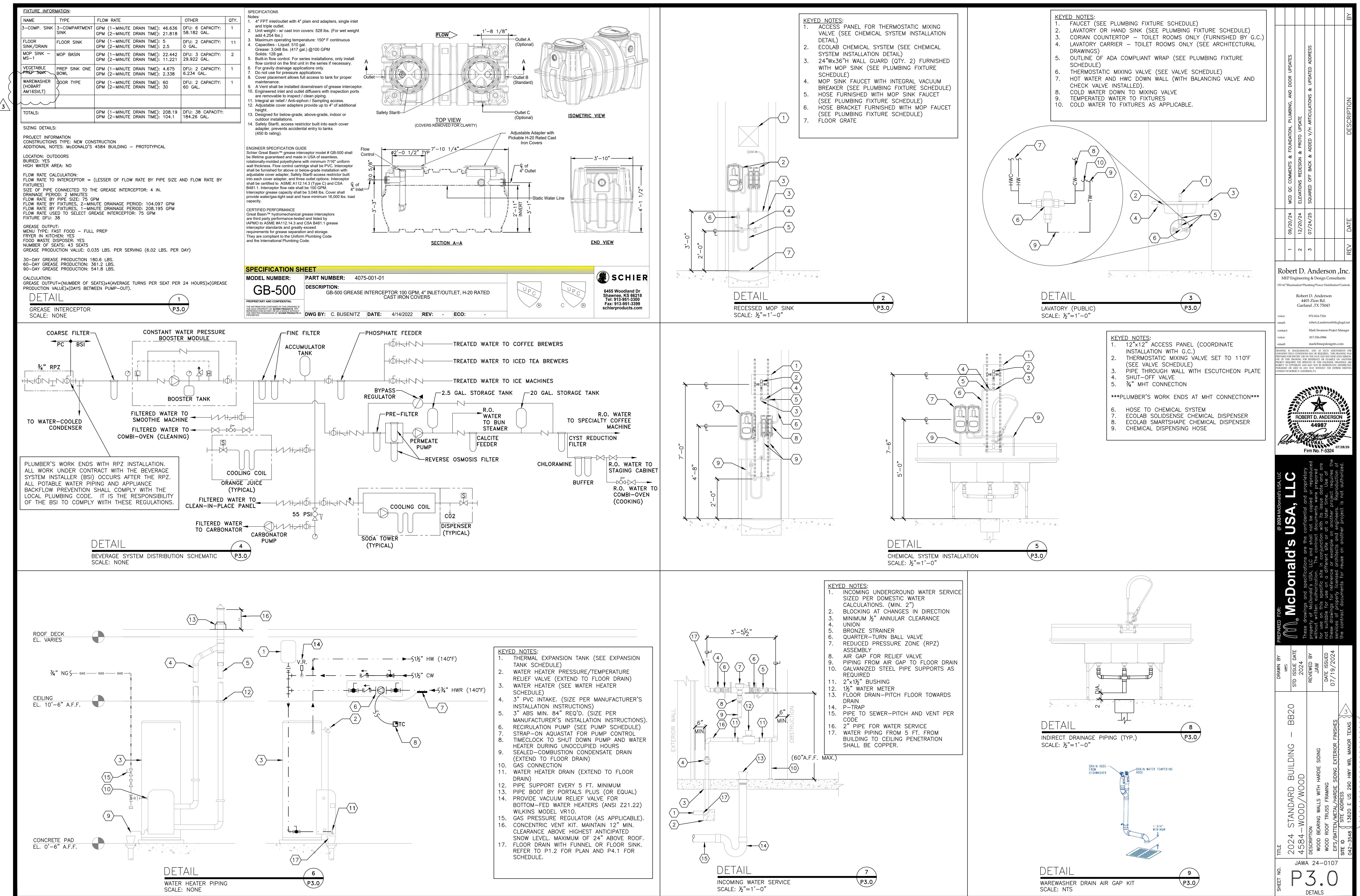












GENERAL PLUMBING NOTES

- GENERAL:**
- ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
 - ALL PLUMBING WORK SHALL BE PERFORMED BY A LICENSED PLUMBER.
 - ALL DIMENSIONS, CLEARANCES AND TOLERANCES SHALL BE VERIFIED PRIOR TO INSTALLATION. ALL ROUGH-IN LOCATIONS SHALL BE COORDINATED WITH THE MANUFACTURER'S SUBMITTAL INFORMATION.
 - ALL DIMENSIONAL INFORMATION IS AS FOLLOWS (UNLESS NOTED OTHERWISE):
 - UNDERGROUND PIPE IS TO FOUNDATION
 - OVERHEAD PIPE IS TO FINISHED WALL
 - ELEVATIONS ARE TO FINISHED FLOOR
 - 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.
 - SEE COORDINATION SCHEDULE FOR ADDITIONAL SCOPE OF WORK.
 - ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH ITS LISTING AND/OR THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - 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.
 - ALL PIPE SLEEVES SHALL BE PROPERLY SEALED AND INSULATED TO PREVENT HEAT LOSS AND SEEPAGE.
 - ALL PIPE INSULATION SHALL BE PROTECTED FROM DAMAGE FROM PIPE HANGERS. PROTECTION SHALL BE LIGHT GAUGE GALVANIZED STEEL OR EQUAL.
 - ALL PENETRATIONS OF FIRE-RATED WALLS SHALL BE FIRESTOPPED WITH AN APPROVED AND LISTED FIRESTOPPING SYSTEM.
- SANITARY AND VENT SYSTEMS:**
- 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.
 - ALL SANITARY AND VENT PIPE SHALL BE PVC TYPE DWV, ABS OR CAST-IRON WHERE REQUIRED BY CODE.
 - 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"	⅜" PER FT.
8" OR LARGER	½" PER FT. (MIN.)

 - 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).
 - 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.
 - CLEANOUTS SHALL BE INSTALLED ON PIPES PRIOR TO ANY SLAB PENETRATION.
 - WHERE PIPING IS LOCATED WITHIN WALL CAVITIES, ACCESS TO THE CLEANOUTS SHALL BE PROVIDED.
 - 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.
 - 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.

 - 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
1½"	¼" PER FT.	2'-6"
1½"	¼" PER FT.	3'-6"
2"	¼" PER FT.	5'-0"
3"	⅜" PER FT.	6'-0"
4" & LARGER	½" PER FT.	10'-0"

 - 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.
 - 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.
 - ALL SIDE WALL VENT TERMINATIONS SHALL BE PROTECTED TO PREVENT BIRDS OR RODENTS FROM ENTERING OR BLOCKING THE VENT OPENING.
 - 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 GROST TRAP GUARD. ALL TRAPS SHALL BE FILLED WITH AN INITIAL LAYER OF COOKING OIL.
 - 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:**
- SEE SITE PLAN FOR THE SIZE AND LOCATION OF THE GREASE INTERCEPTOR.
 - THE GREASE INTERCEPTOR SHALL BE INSTALLED IN A LOCATION THAT IS ACCESSIBLE FOR PUMPING.
 - THE GREASE INTERCEPTOR SHALL BE CONSTRUCTED OF FIBERGLASS OR ROTATIONALLY-MOLDED POLYETHYLENE. GREASE INTERCEPTOR CONSTRUCTION SHALL CONFORM TO ALL LOCAL CODES. CONCRETE GREASE INTERCEPTORS ARE NOT PERMITTED UNLESS REQUIRED BY THE LOCAL AHJ.
 - GREASE INTERCEPTORS SHALL BE GRAVITY OR HYDROMECHANICAL TYPE, SIZED FOR THE APPLICATION LISTED.

- THE GREASE INTERCEPTOR SHALL BE VENTED.
 - ACCESS TO THE GREASE INTERCEPTOR SHALL BE PROVIDED WITH TWO (2) 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.
 - PIPING INLET AND OUTLET SIDES SHALL BE CLEARLY LABELED ON THE TOP OF THE GREASE INTERCEPTOR TO INSURE PROPER INSTALLATION.
- DOMESTIC SUPPLY SYSTEMS:**
- 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.
 - 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.
 - IF PEX PIPING IS USED, ALL MAINS SHALL BE UPSIZED BY 0.5" DIAMETER.
 - 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.
 - 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.
 - PROVIDE A MINIMUM ½" ANNUAL CLEARANCE AROUND ALL PIPE SLAB PENETRATIONS.
 - A REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER (RPZ) SHALL BE INSTALLED AT THE INCOMING SERVICE WHERE REQUIRED BY CODE. (MIN. 60" A.F.F.)
 - AN EXPANSION TANK SHALL BE INSTALLED ON THE COLD WATER LINE INLET TO THE WATER HEATER. SEE EXPANSION TANK SCHEDULE.
 - 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.
 - CPVC PIPE SHALL BE FLOWGUARD GOLD OR FLOWGUARD BENDABLE AS MANUFACTURED BY LUBRIZOL.
 - CPVC PIPE SHALL BE CONNECTED WITH FLOWGUARD GOLD YELLOW LOW-VOC SOLVENT CEMENT AS MANUFACTURED BY IPS WELD-ON OR OATEY.
 - ALL CPVC PIPE SHALL BE INSULATED TO PREVENT EXPOSURE TO GREASE.
 - ALL SUSPENDED PIPE SHALL BE SUPPORTED AS FOLLOWS:

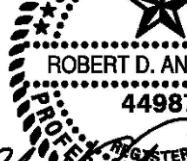
MATERIAL	MAX. HORIZ. SPACING	MAX. VERT. SPACING
COPPER PIPE	12 FT.	10 FT.
COPPER TUBING $\leq 1\frac{1}{2}"$	6 FT.	10 FT.
COPPER TUBING $> 1\frac{1}{2}"$	10 FT.	10 FT.
CPVC $\leq 1"$	3 FT.	10 FT.
CPVC $\geq 1\frac{1}{4}"$	4 FT.	10 FT.
PEX $\leq 1"$	3 FT.	10 FT.
PEX $\geq 1\frac{1}{4}"$	4 FT.	10 FT.

 - 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).
 - 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.
 - ALL WATER SUPPLY LINES SHALL BE PROVIDED WITH A QUARTER-TURN SHUT-OFF VALVE BEFORE FINAL CONNECTION TO EQUIPMENT.
 - QUARTER-TURN SHUT-OFF VALVES SHALL BE INSTALLED UPSTREAM OF ANY INLINE BACKFLOW PREVENTION DEVICE.
 - ALL VALVES AND BACKFLOW PREVENTION DEVICES SHALL BE INSTALLED WITH FITTINGS THAT FACILITATE REMOVAL IN CASE OF FAILURE.
 - ALL OVERHEAD WATER LINES SHALL BE INSULATED PER SCHEDULE THIS SHEET WITH EXTERNAL JACKETED INSULATION AND A MINIMUM INSTALLED R-VALUE OF 3.7.
 - 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:**
- ALL ROOF DRAINS SHALL BE SIZED IN ACCORDANCE WITH LOCAL CODES AND SHALL CONFORM TO ASME A112.21.2M OR A112.3.1.
 - ALL STORM DRAINAGE PIPING SHALL BE ABS, PVC TYPE DWV OR CAST-IRON WHERE REQUIRED BY CODE.
 - ALL SUSPENDED STORM DRAINAGE PIPE SUPPORT REQUIREMENTS SHALL BE THE SAME AS THE SANITARY AND VENT REQUIREMENTS.
 - ALL HORIZONTAL STORM DRAINAGE PIPE PITCH REQUIREMENTS SHALL BE THE SAME AS THE SANITARY AND VENT REQUIREMENTS.
 - 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.
 - CLEANOUTS SHALL BE INSTALLED IN ALL HORIZONTAL DRAINAGE PIPE AND SHALL BE LOCATED NOT MORE THAN 100 FT. APART.
 - 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.
 - CLEANOUTS SHALL BE INSTALLED ON PIPES PRIOR TO ANY SLAB PENETRATION.
 - WHERE PIPING IS LOCATED WITHIN WALL CAVITIES, ACCESS TO THE CLEANOUTS SHALL BE PROVIDED.
 - ROOF DRAINS AND OVERFLOW ROOF DRAINS SHALL BE PIPED INDEPENDENTLY. OVERFLOW ROOF DRAINS SHALL NOT BE CONNECTED TO THE PRIMARY ROOF DRAINAGE SYSTEM.

- 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 | ≥8 |
| DOMESTIC COLD WATER (40°F TO 60°F) | 0.5 | 0.5 | 1.0 | 1.0 | 1.0 | 1.0 |
| TEMPERATE HOT WATER (105°F TO 140°F) | 1.0 | 1.0 | 1.5 | 1.5 | 1.5 | 1.5 |
| HOT WATER (141°F TO 200°F) | 1.5 | 1.5 | 2.0 | 2.0 | 2.0 | 2.0 |
| STORM DRAIN (HORIZONTAL) | - | - | 1.0 | 1.0 | 1.0 | 1.0 |

LEGEND		ABBREVIATIONS	
— — — — —	COLD WATER PIPING	ACM	AREA CONSTRUCTION MANAGER
— — — — —	TEMPERED WATER PIPING (110°F)	AVB	ATMOSPHERIC VACUUM BREAKER
— — — — —	HOT WATER PIPING (140°F)	BSI	BEVERAGE SYSTEM INSTALLER
— — — — —	RECIRCULATED HOT WATER PIPING	CO	CLEAN-OUT
— — — — —	OVERHEAD LINES (BY P.C.)	DC	DOWNSPOUT COVER
— — SAN — —	UNDERGROUND SANITARY PIPING	DFU	DRAINAGE FIXTURE UNIT(S)
— — GW — —	UNDERGROUND GREASE WASTE PIPING	EC	ELECTRICAL CONTRACTOR
— — — — —	VENT PIPING	FAC	FIRE ALARM CONTRACTOR
— — STS — —	ABOVE GROUND STORM PIPING	FCO	FLOOR CLEAN-OUT
— — STS — —	UNDERGROUND STORM PIPING	FD	FLOOR DRAIN
⊕	HOSE BIBB	FPC	FIRE PROTECTION CONTRACTOR
↗	CHECK VALVE	FS	FLOOR SINK
●	BALL VALVE	GC	GENERAL CONTRACTOR
☒	THERMOSTATIC MIXING VALVE	GI	GREASE INTERCEPTOR
□	FLOOR DRAIN	GPF	GALLONS PER FLUSH
□	CLEAN-OUT (FLOOR OR YARD)	GPM	GALLONS PER MINUTE
□	FLOOR SINK	GW	GREASE WASTE
○	PRESSURE GAUGE	HS	HAND SINK
□	LOW PRESSURE SWITCH	I.P.S.	IRON PIPE SIZE (ALSO NPS)
□	HIGH PRESSURE SWITCH	KEI	KITCHEN EQUIPMENT INSTALLER
□	SOLENOID VALVE	KES	KITCHEN EQUIPMENT SUPPLIER
△	THREE-WAY VALVE	LAV	LAVATORY
○	PRESSURE REGULATOR	MC	MECHANICAL CONTRACTOR
↗	DUAL CHECK VALVE OR RPZ	MHT	MALE HOSE THREADS
↗ ↘	DUAL CHECK VALVE WITH ATMOSPHERIC VENT	MS	MOP SINK
▀	STRAINER	NPS	NATIONAL PIPE THREAD STANDARD
↑	RELIEF VENT	NPT	NATIONAL PIPE THREAD TAPERED
●	WATER-HAMMER ARRESTOR	O/O	OWNER/OPERATOR
OH	OVERHEAD		
P	PUMP		
PC	PLUMBING CONTRACTOR		
RC	REFRIGERATION CONTRACTOR		
RPZ	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER		
SS	SANITARY SEWER		
ST STS	STORM SEWER (PRIMARY) STORM SEWER (SECONDARY)		
SVB	ANTI-SIPHON, SPILL RESISTANT VACUUM BREAKER		
TAB	TEST AND BALANCE CONTRACTOR		
UG	UNDERGROUND		
UR	URINAL		
V	VENT		
WC	WATER CLOSET		
WCO	WALL CLEAN-OUT		
WSFU	WATER SUPPLY FIXTURE UNIT(S)		
YC	YARD CLEAN-OUT		

McDonald's USA, LLC

PREPARED FOR:  McDonald's USA, LLC

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DRAWN BY MES	STD ISSUE DATE 2024	REVIEWED BY JAW
TITLE 2024 STANDARD BUILDING - BB20		DATE ISSUED 07/19/2024
DESCRIPTION WOOD BEARING WALLS WITH HARDE SIDING		SITE ADDRESS 1320 E US 290 HWY MARY TEXAS
EFS/BATTEN/ALUM/HARDE SIDING EXTERIOR FINISHES		SITE ID 042-3548
P40		GENERAL NOTES

JAVA 24-0107
P40
GENERAL NOTES

BY

09/20/24

09/20/24

09/20/24

09/20/24

09/20/24

09/20/24

09/20/24

09/20/24

COORDINATION SCHEDULE

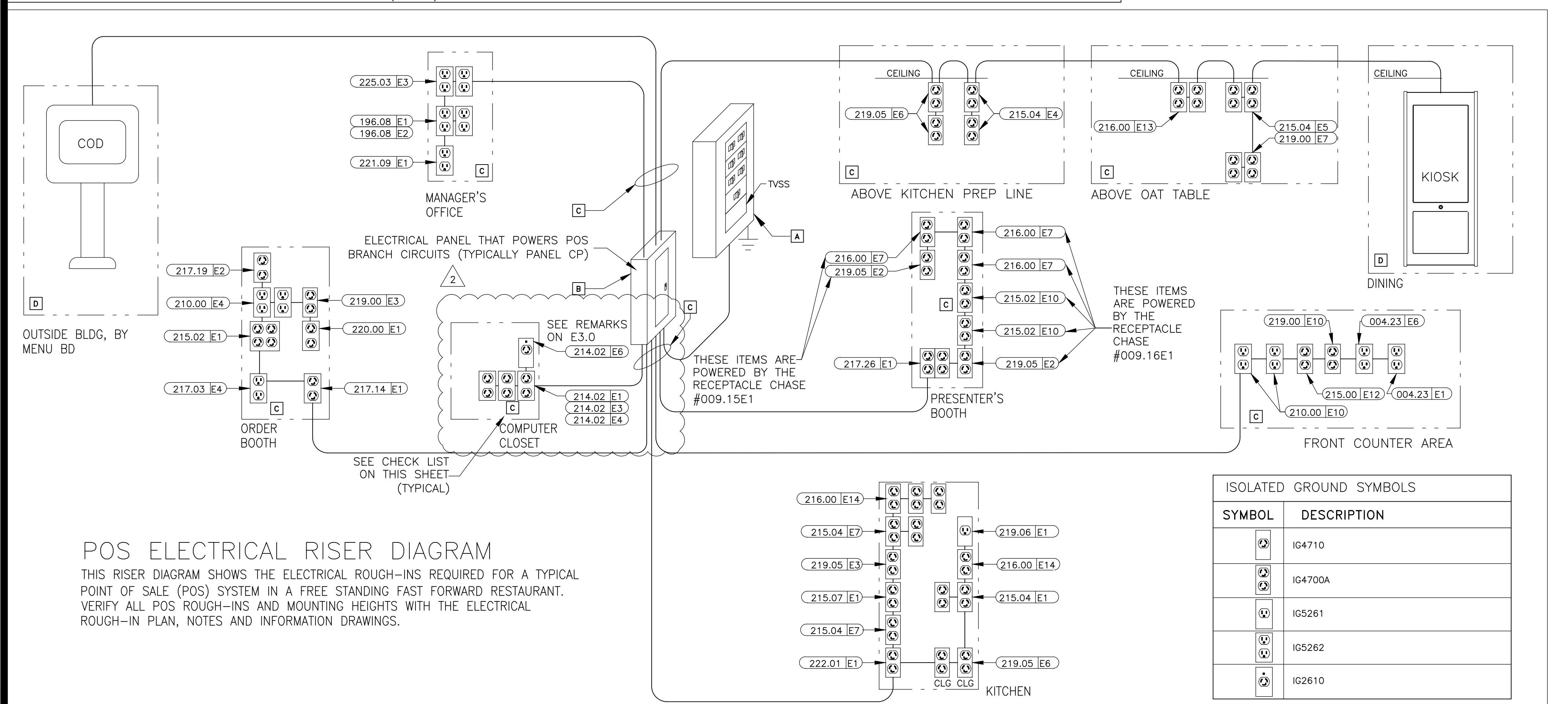
GENERAL REQUIREMENTS					FURNISH	INSTALL	FINAL CONNECTION	NOTES
MECHANICAL PERMIT		MC						1-3
HOT WORK (WELDING) PERMIT (IF APPLICABLE)		MC						1-3
REFRIGERATION PERMIT (IF APPLICABLE)		KES						1-3
PLUMBING PERMIT		PC						1-3
ELECTRICAL PERMIT		EC						1-3
FIRE SPRINKLER PERMIT (IF APPLICABLE)		FPC						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 BACKSHLF EXHAUST HOODS	KES	KEI						1-3, 6, 22, 27
CANOPY EXHAUST HOODS (IF APPLICABLE)	KFS	KFI						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
ROOF CURBS	MC	MC						1-3, 22
REFRIGERANT PIPING	KES	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						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
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
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 SPRINKLER 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

COORDINATION SCHEDULE

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/0 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

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.



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 13/16"
 - 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.

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: _____

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.

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)?

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

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 RECEPCIONES OR ANY COMBINATION OF THESE?

5. ARE ALL ELECTRICAL TERMINATIONS TO IG RECEPCIONES 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 RECEPCIONES PROVIDED AS SHOWN IN THE ELECTRICAL ROUGH-IN PLAN, NOTES AND INFORMATION?

8. DO ALL POS RECEPCIONES HAVE ORANGE "COMPUTER ONLY" COVERPLATES?

9. DO ALL POS BRANCH CIRCUITS COMPLY WITH THE "POS & COD ISOLATED GND/DED CKT 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:

- 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).

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 GND/DED CKT DETAIL"?

FINISHED

McDonald's USA, LLC

PREPARED FOR: **JAWA 24-0107**

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DRAWN BY: **JAW** STD ISSUE DATE: **2024** REVIEW BY: **JAW** DATE ISSUED: **07/19/2024**

DESCRIPTION: **2024 STANDARD BUILDING - BB20**

WOOD BEARING WALLS WITH HARDE SIDING

WOOD ROOF/STEEL/METAL/HARDE SIDING EXTERIOR FINISHES

SITE ID: **13620 E US 290 NW MANSFIELD TEXAS**

SHEET NO. **1**

REV. **042-3548**

BY: **Robert D. Anderson**

MEP Engineering & Design Consultants

HVAC/illumination/Plumbing/Power Distribution/Control

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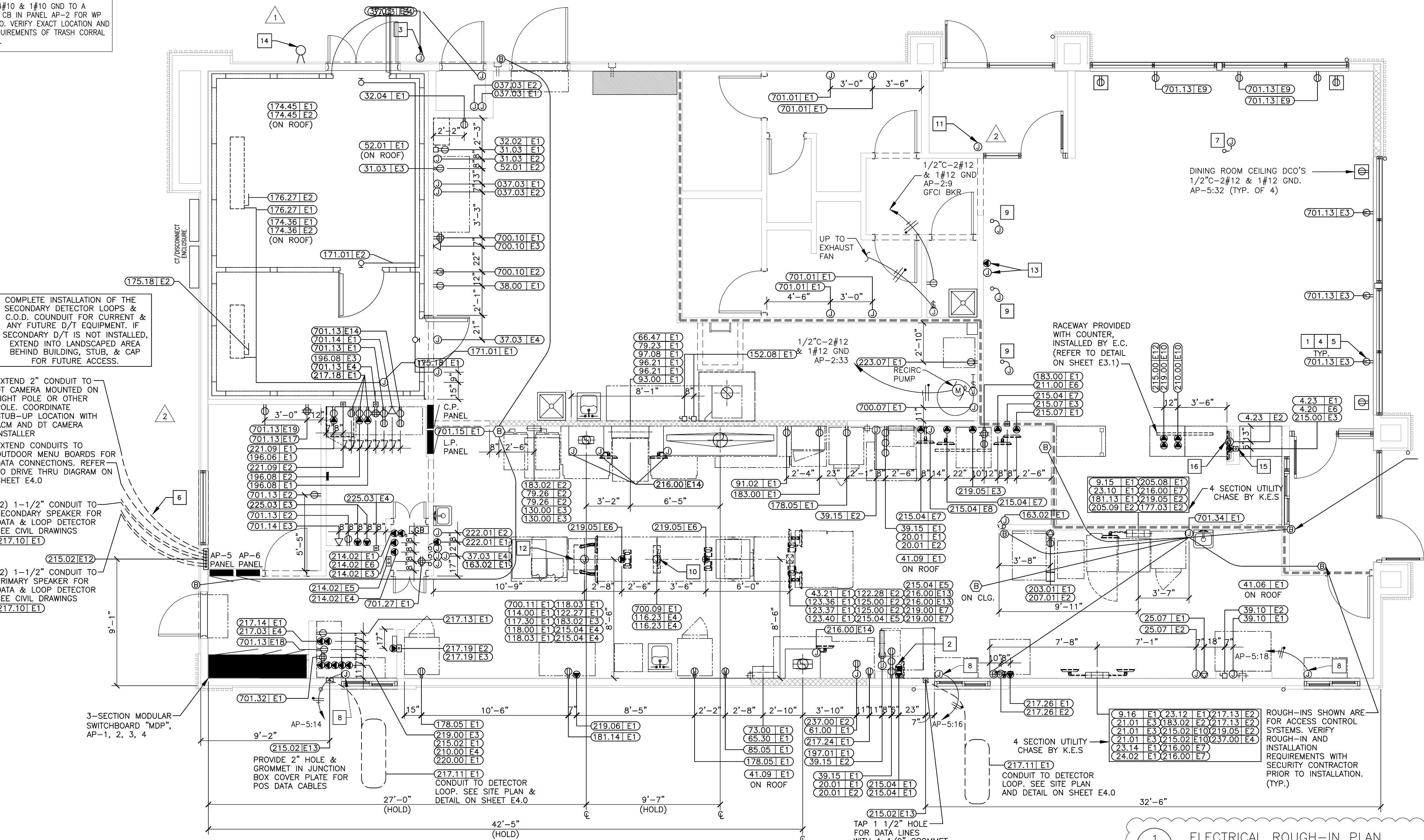
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FIRM NO. **F-5324** 07/28/26

TRASH CORRAL POWER:
3/4C-#10 & 1#10 GND TO A
20A-1P CB IN PANEL AP-2 FOR WP
GFCI DCO. VERIFY EXACT LOCATION AND
ALL REQUIREMENTS OF TRASH CORRAL
IN FIELD.



SYMBOLS AND ABBREVIATIONS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
↔	SINGLE POLE SWITCH, 3W=THREE WAY SWITCH, K=KEYED SWITCHED, VS=VACANCY SENSOR	⑧	BUZZER
↔T	MANUAL SWITCH (T= THERMAL OVERLOADS)	⑨	BUTTON FOR BUZZER
■	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	C	CONDUIT
■	INTERCOM STATION W/ 3/4C- TO MAIN STATION	CCT	CIRCUIT
□	TELEPHONE JACK	EC	ELECTRICAL CONTRACTOR
○	JUNCTION BOX - WALL OR CEILING MOUNTED	GC	GENERAL CONTRACTOR
□	DISCONNECT SWITCH	GFI/GFCI	GROUND FAULT CIRCUIT INTERRUPTER
○	STUB UP THRU ROOF	GND	GROUND
○	THERMOSTAT SENSOR W/ 1/2C- UP TO CEILING SPACE	JB	JUNCTION BOX
○	MOTOR CONNECTION	KES	KITCHEN EQUIPMENT SUPPLIER
○	CONDUIT RUN CONCEALED IN CEILING OR WALLS	MLO	MAIN LUGS ONLY
○	CONDUIT RUN IN FLOOR SLAB	WP	WEATHERPROOF
○	HOT (SHORT), NEUTRAL (LONG), EQUIP GRD (LONG WITH DOT), & 'X' DENOTES ISOLATED GRD	○○	CARBON MONOXIDE SENSOR
○	J-BOX WITH FINAL EQUIPMENT CONNECTION	GB	GROUND BUS TERMINAL
○	CEILING MOUNTED OCCUPANCY SENSOR	DS	DAYLIGHT SENSOR

ADT ROUGH-IN NOTES

- COORDINATE EXACT INSTALLATION REQUIREMENTS WITH ADT PRIOR TO INSTALLATION TEL. 800-417-8238
- 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 1/2C ABOVE CEILING FROM JUNCTION BOX. PROVIDE 1/2" CONDUIT STUB-IN INTO BUILDING WITH THERMOPLASTIC BUSHING FROM HORN/STROBE 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.
- 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 1/2C-#2#12 TO LOCKOUT TYPE CB IN PANEL LP-1.

GENERAL NOTES

- SEE SHEET E.3.0 FOR PANEL & CIRCUIT BREAKER ASSIGNMENT, VOLT/PH, FLA, BREAKER SIZE, COND/WIRE, RECEPTACLE TYPE, HEIGHT ABOVE FINISHED FLOOR, REQUIREMENTS & REMARKS FOR ALL ELECTRICAL EQUIPMENT.
- SEE LOW VOLTAGE CABLE MANAGEMENT SPECIFICATION ON SHEET E.1.0 FOR POS, DATA, AND SOUND SYSTEM REQUIREMENTS.
- 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

- TAMPER RESISTANT GFCI DUPLEX RECEPTACLE IN PUBLIC AREAS. EC SHALL PROVIDE HUBBELL GFTSTR* (*: AL=ALMOND, BK=BLACK, BR=BROWN, CY=GRAY, IV=IVORY, LA=LIGHT ALMOND, R=RED, W=WHITE). SPECIFIED RECEPTACLE BECOMES DE-ENERGIZED UPON FAILURE OF GFCI DEVICE. NO SUBSTITUTIONS.(TYPICAL)
- SEE POS ELECTRICAL RISER DIAGRAM ON SHEET E.1.0. (TYPICAL)

KEY NOTES

- 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 2" CONDUIT STUB-IN INTO BUILDING WITH THERMOPLASTIC BUSHING FROM HORN/STROBE 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.
- NOT USED. 2
- 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.
- IF MOUNTED TO A LIGHTING POLE, DT CAMERA SHALL ONLY BE INSTALLED ON A POLE WITH MAXIMUM OF (2) LIGHTING POLES. PROVIDE ISOLATION OF DT CAMERA MOUNTING HARDWARE AND POLE TO PREVENT BI-METALLIC OR GALVANIC CORROSION.
- 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 FIELDS 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.
- DRIVE THRU WINDOW POWER, CONFIRM REQUIREMENTS WITH MANUFACTURER DRAWINGS.

KEY NOTES

- PROVIDE POWER FOR CONNECTION TO SELF ORDER KIOSKS. COORDINATE EXACT LOCATION OF KIOSKS WITH DECOR DRAWINGS. PROVIDE 2#12, 1#12 GND, & 1#12 ISOLATED GROUND ON A 20A DEDICATED CIRCUIT FED FROM THE CP PANEL FOR EVERY KIOSK.
- VERIFY DROP CORDS AND RECEPTACLES DO NOT FALL BELOW HEIGHTS LISTED ON E.3.0 ELECTRICAL SCHEDULE. RECEPTACLES SHOULD BE LOCATED AT HEIGHTS TO AVOID CONTACT WITH HOT APPLIANCES.
- PROVIDE POWER AND DATA FOR DIGITAL MERCHANTISER. EXTEND CIRCUIT TO THIS LOCATION FROM FRONT COUNTER MERCHANTISER IN SERVICE AREA. EXTEND J-HOOKS FROM SERVICE AREA FOR DATA CABLES. REFER TO 3/E.3.1.
- EC TO INSTALL DROP CORDS JUSTIFIED TO THE DRIVE THRU SIDE OF THE BUILDING.
- PROVIDE POWER AND DATA ROUGH-INS FOR CASH HANDLERS REFER TO 4/E.3.1. FOR MORE INFORMATION, COORDINATE EXACT LOCATION WITH DECOR DRAWINGS.
- 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.
- CONTRACTOR TO PUNCH HOLES IN SERVICE POD FOR CABLE AND CONDUIT ROUTING. UTILIZE BUSHINGS PROVIDE WITH SERVICE POD TO PROTECT CABLES.
- REFER TO DETAIL ON A.3.1 FOR DIMENSIONS OF DIGITAL MERCHANTISER ROUGH-INS.

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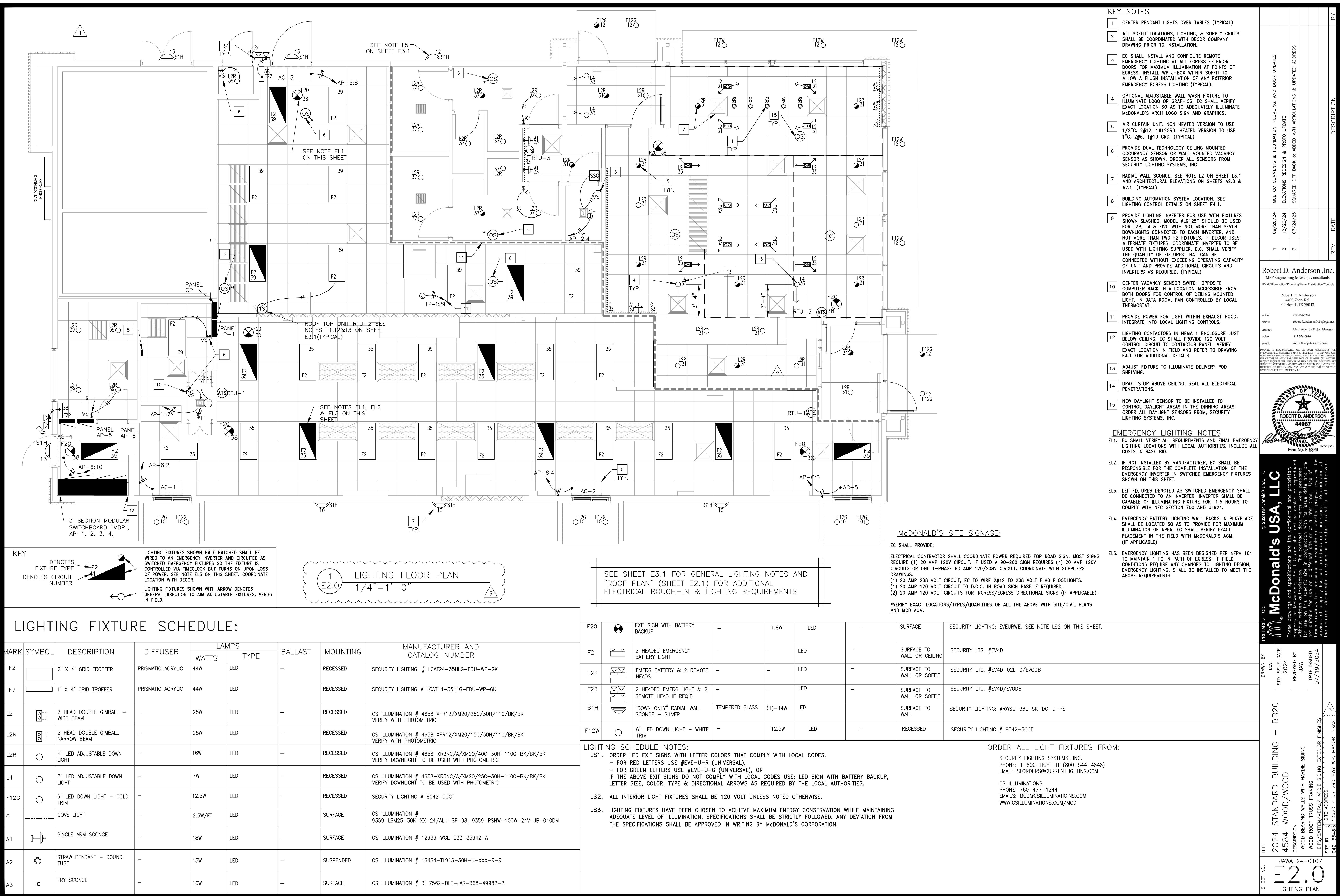
1	09/20/24	MCDC COMMENTS & FOUNDATION, PLUMBING, AND DOOR UPDATES
2	12/20/24	ELEVATIONS, REDESIGN & PROTO UPDATE
3	07/24/25	SQUARED OFF BACK & ADDED V/H ARTICULATIONS & UPDATED ADDRESS
REV	DATE	DESCRIPTION

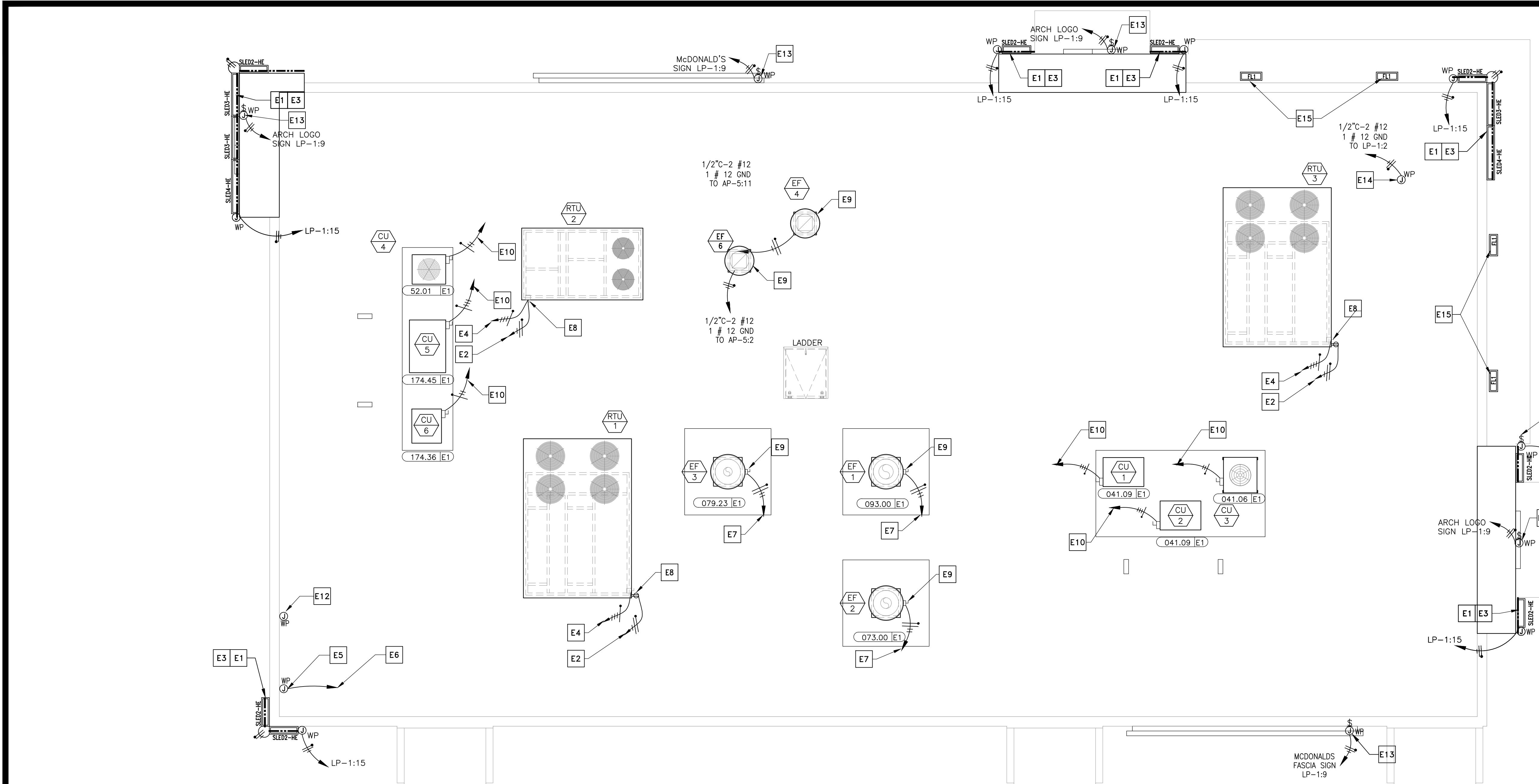
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ROBERT D. ANDERSON
Firm No. F-3324
07/28/26

TITLE	2024 STANDARD BUILDING - BB20
DESCRIPTION	4584 - WOOD/WOOD
DRAWN BY	MES
STD ISSUE DATE	2024
REVIEWED BY	JAW
DATE ISSUED	07/19/2024
SITE ID	1362 E 290 NWY MANSFIELD TEXAS
ADDRESS	1362 E 290 NWY MANSFIELD TEXAS

JAWA 24-0107
E 1 • 1
ROUGH-IN 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 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** NOT USED.
- E12** E.C. SHALL PROVIDE A WEATHER-PROOF JUNCTION BOX WITH $\frac{3}{4}$ "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 INFEEDE REQUIREMENTS IN THE FIELD. SEE FLOOD LIGHT DETAIL ON SHEET E3.1. (TYPICAL)

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-10 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-10 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-10 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-10-JW10

DRAWING NOTES

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

LED GENERAL NOTES

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

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PREPARED FOR:	McDonald's USA, LLC		
DRAWN BY:	MES	STD ISSUE DATE:	2024
REVIEWED BY:	JAW	DATE ISSUED:	07/19/2024
TITLE: 2024 STANDARD BUILDING - BB20			
DESCRIPTION: 4584 - WOOD/WOOD			
WOOD BEARING WALLS WITH HARDE SIDING			
EYES/BATTEN/ALUM/HARDE SIDING EXTERIOR FINISHES			
SITE ID:	13620 E US 290 HWY WEB, MANSFIELD, TEXAS		
SHEET NO.:	E2.1		
BY:	Robert D. Anderson, Inc.		
MEP Engineering & Design Consultants			
HVAC/illumination/Plumbing/Power Distribution/Control			
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voice: 972-814-7204 email: robert.anderson@bogleg.net contact: Mark Swanson-Project Manager voice: 817-556-0986 email: mark@mtdesigns.com			
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JAWA 24-0107
E2.1
ELEC. ROOF PLAN

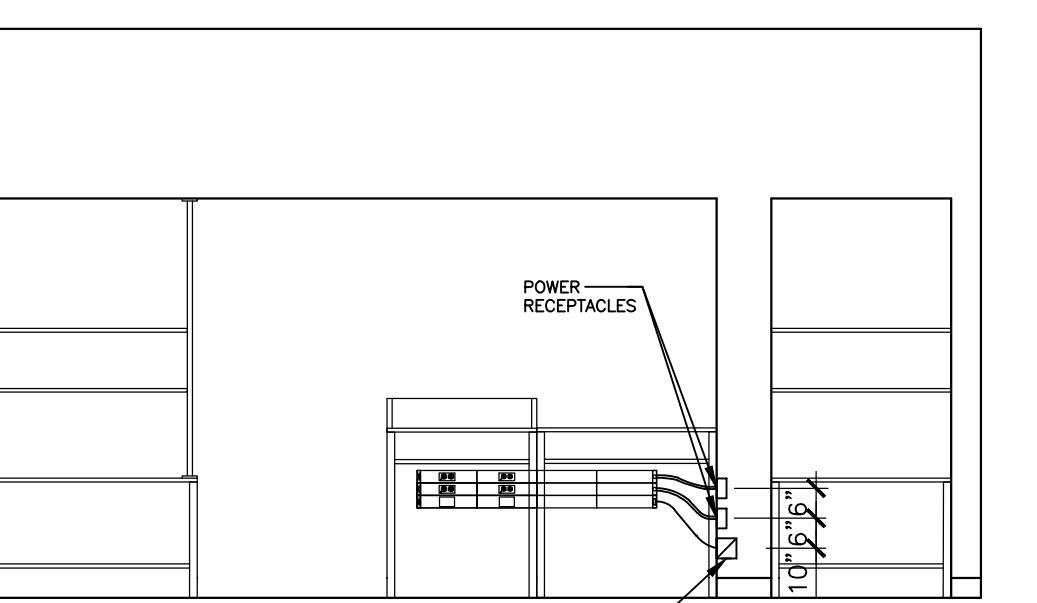
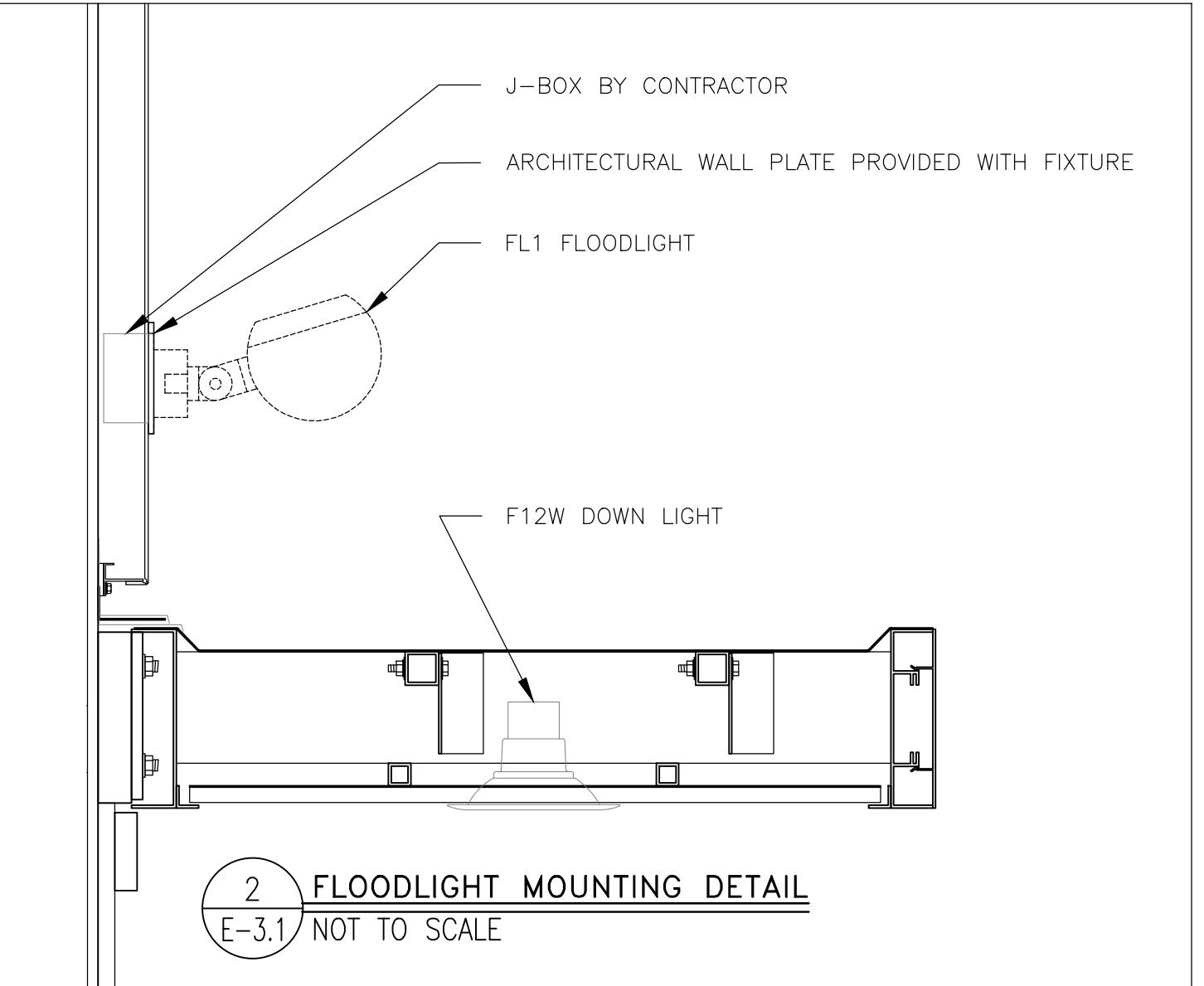
PB	= Pullbox	VIF	= Verify in Field	ELECTRICAL SCHEDULE												ELECTRICAL SCHEDULE												
JB	= Junction Box			PB	= Pullbox	VIF										PB	= Pullbox	VIF	= Verify in Field									
EC	= Electrical Contractor			JB	= Junction Box											EC	= Electrical Contractor											
TAG #	QTY	DESCRIPTION	VOLT/PH	FLA	BRK SIZE	COND/WIRE	PNL/CCT	RECEP TYPE	HGT AFF	REQUIREMENTS & REMARKS	TAG #	QTY	DESCRIPTION	VOLT/PH	FLA	BRK SIZE	COND/WIRE	PNL/CCT	RECEP TYPE	HGT AFF	REQUIREMENTS & REMARKS							
004.20E6	1	DIGITAL MERCHANTISER	120V / ISOLATED	2.6	20A	1/2C-#2#12G	CP:6	IG5262	6'-5"	-	197.01E1	1	HAND WASH TIMER	120/1	0.1	20A	1/2C-#2#12	AP-1:33	5-20R	4'-6"	-							
004.23E1	1	DIGITAL MERCHANTISER - MEDIA PLAYER	120V / ISOLATED	1.0	20A	1/2C-#2#12G	CP:6	IG5262	6'-5"	USE SAME RECEPTACLE AS 4.20E6	203.01E1	1	HEAT TREAT COMBINATION SHAKE/SUNDAE MACHINE	208/3	13.0	30A	3/4C-#3#8	AP-1:(18,20,22)	4x4x4 PB	1'-0"	RECEP #4A60R9 BY KES, IF TAYLOR C602 IS ORDERED USE A 40A BRKR & #6 CONDUCTORS. EC MAKES FINAL CONN							
004.23E2	1	DIGITAL MERCHANTISER - 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	205.08E1	1	BIC MACHINE	120/1	8.6	20A	1/2C-#2#12	AP-2:29	BY KES	SEE RMKS	EC TO EXTEND DEDICATED CIRCUIT TO 5-20R RECEPTACLE IN CHASE							
009.16E1	1	UTILITY CHASE - FFDT INTERIOR WALL	-	-	-	-	-	-	SEE RMKS	UTILITY CHASE AND RECEPTACLES PROVIDED BY K.E.S.	205.09E2	1	FROZEN BEVERAGE DISPENSER	208/1	20.0	30A	1/2C-#2#10	AP-5:(17,19)	SEE RMKS	SEE RMKS	RECEP L6-30R IN CHASE BY KES, EC MAKES FINAL CONN							
009.16E1	1	UTILITY CHASE - FFDT EXTERIOR WALL	-	-	-	-	-	-	SEE RMKS	UTILITY CHASE AND RECEPTACLES PROVIDED BY K.E.S.	207.01E2	1	BLENDER - MCCLURRY - RAIL MOUNT	120/1	1.2	20A	1/2C-#2#12	AP-2:7	5-20R	4"-0"	-							
020.01E1	2	AUTOMATED BEVERAGE SYSTEM 2.0	120/1	5.0	20A	1/2C-#2#12	AP-1:12, AP-2:24	5-20R	2'-0"	-	210.00E10	1	CASH RECYCLER	120/1	4.4	20A	1/2C-#2#12G	CP:27	(2) IG5262	SEE RMKS	PROVIDE RECEP. IN COUNTER-MOUNTED RACEWAY							
020.01E2	2	AUTOMATED BEVERAGE SYSTEM 2.0	120/1	14.9	20A	1/2C-#2#12	AP-1:6, AP-2:26	5-20R	3'-10"	FOR PRE-COOLER	210.00E4	1	CASH RECYCLER	120/1	4.4	20A	1/2C-#2#12G	CP:24	(2) IG5262	5'-10"	-							
021.01E3	3	COFFEE BREWER (THERMAL POTS)	120-208/1	15.5	20A	1/2C-#3#12	AP-1:(4,14,16), AP-6:(11,13)	BY KES	SEE RMKS	EC TO EXTEND CIRCUIT TO L14-20R RECEPTACLE IN CHASE	211.00E6	1	DELIVERY TABLETS	120/1	3.0	20A	1/2C-#2#12	AP-5:21	(2) 5-20R	5'-6"	-							
023.10E1	1	ESPRESSO BREWER	208/1	21.6	30A	1/2C-#2#10	AP-1:(19,21)	BY KES	SEE RMKS	EC TO EXTEND CIRCUIT TO L6-30R RECEPTACLE IN CHASE	214.02E1	1	TECHNOLOGY RACK	120/1	5.0	20A	1/2C-#2#12G	CP:11	IG4700	7'-6"	FOR SWITCHES, HUBS AND RADII							
023.12E1	1	COFFEE CREAM DISPENSER	120/1	1.0	20A	1/2C-#2#12	AP-1:8	BY KES	SEE RMKS	EC TO EXTEND CIRCUIT TO 5-20R RECEPTACLE IN CHASE	214.02E3	1	TECHNOLOGY RACK	120/1	10.0	20A	1/2C-#2#12G	CP:15	IG4700	3'-0"	FOR CASHLESS DEVICE UPS							
023.14E1	1	SUGAR/SWEETENER DISPENSER	120/1	1.5	20A	1/2C-#2#12	AP-1:8	BY KES	SEE RMKS	EC TO EXTEND CIRCUIT TO 5-20R RECEPTACLE IN CHASE	214.02E4	1	TECHNOLOGY RACK	120/1	12.0	20A	1/2C-#2#12G	CP:17	IG4700	3'-0"	FOR POS SYSTEM UPS AND ORB CONTROLLER							
024.02E1	1	JUICE DISPENSER	120/1	4.5	20A	1/2C-#2#12	AP-1:8	5-20R	SEE RMKS	EC TO EXTEND CIRCUIT TO 5-20R RECEPTACLE IN CHASE	214.02E5	1	TECHNOLOGY RACK	DATA CABLE	-	-	-	-	8x6x4 PB	7'-6"	EXTEND (2) 2 1/2" CONDUIT ABOVE CLG. W/BUSHING FOR DATA CABLES							
025.07E1	1	INFUSION TEA BREWER - MIS	120-208/1	13.0	20A	1/2C-#3#12	AP-2:(32,34)	L14-20R	2'-3"	-	214.02E6	1	TECHNOLOGY RACK	120/1	14.0	30A	1/2C-#2#10IG	CP:12	IG4700	3'-0"	FOR POS SYSTEM UPS							
031.03E1	1	SODA SYSTEM PACKAGE - B.I.B. (REGCIRCULATING 3 TOWERS)	208/3	26.0	30A	3/4C-#3#10	AP-2:(37,39,41)	SEE RMKS	3'-0"	EC SUPPLIES 30A-3P NF DISC SW MTD 9" BELOW CEILING PER NEC SEC. 404.8(A)	215.00E12	1	POS REGISTER - FRONT COUNTER	120/1	3.0	EA	3/4C-#2#12G	CP:19	IG4700	SEE RMKS	PROVIDE IG RECEP. IN COUNTER-MOUNTED RACEWAY							
031.03E2	1	SODA SYSTEM PACKAGE - B.I.B. (REGCIRCULATING 3 TOWERS)	-	-	-	-	-	JB	4'-0"	FOR CONTROL WIRES FROM REMOTE CONDENSING UNIT	215.00E3	1	POS REGISTER - FRONT COUNTER	DATA CABLE	-	-	-	-	4x4x4 PB	10"	EXTEND 2" CONDUIT TO ABOVE CEILING FOR POS DATA CABLES							
031.03E3	1	SODA SYSTEM PACKAGE - B.I.B. (REGCIRCULATING 3 TOWERS)	120/1	(2) 6.8	20A	1/2C-#2#12	AP-2:35	5-20R	6'-6"	FOR WATER BOOSTER SYSTEM AND OPTIONAL AIR COMPRESSOR	215.02E1	1	POS REGISTER - 2 WINDOW D/T	120/1	3.0	EA	1/2C-#2#12IG	SEE REMARKS	(2) IG4700	2'-5"	IN ORDER BOOTH, CONNECT TO CP-7 - IF INCLUDED IN PRESENTERS BOOTH, CONNECT TO CP-8							
032.02E1	1	REVERSE OSMOSIS WATER FILTRATION SYSTEM - TANKLESS	120/1	4.0	20A	1/2C-#2#12 EA	AP-2:23	5-20R	6'-0"	-	215.02E10	2	POS REGISTER - 2 WINDOW D/T	120/1	3.0	EA	1/2C-#2#12IG	CP:1	BY KES	SEE RMKS	EC TO EXTEND CIRCUIT TO IG4700 RECEPTACLE IN CHASE							
032.04E1	1	WATER FILTRATION SYSTEM	120/1	0.08	20A	1/2C-#2#12 EA	AP-2:23	5-20R	6'-0"	-	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.								
037.03E1	2	CO2 SAFETY SYSTEM - DETECTOR	120/1	1.0	20A	1/2C-#2#12	AP-1:10	JB	SEE RMKS	PROVIDE LOCKOUT CB. SEE MECHANICAL DRAWINGS	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								
037.03E2	2	CO2 SAFETY SYSTEM	-	-	-	-	-	JB	SEE RMKS	FOR LV WIRES STUB 3/4C. ABV CLG. SEE MECHANICAL DRAWINGS	215.04E1	2	POS - KVS MONITOR	120/1	1.5	EA	1/2C-#2#12IG	CP:8	IG4700	FLUSH ON	-							
037.03E4	4	CO2 SAFETY SYSTEM - CO2 DETECTOR AV ALARM	-	-	-	-	-	JB	7"-0" MINIMUM	SEE RMKS	SEE RMKS	SEE RMKS	SEE RMKS	SEE RMKS	SEE RMKS	SEE RMKS	SEE RMKS	SEE RMKS	SEE RMKS	SEE RMKS	SEE RMKS	SEE RMKS	SEE RMKS	SEE RMKS	SEE RMKS	SEE RMKS		
038.00E1	1	CLEAN IN PLACE PANEL	120/1	1.0	20A	1/2C-#2#12	AP-2:21	5-20R	5'-6"	-	215.04E4	2	POS - KVS MONITOR	120/1	1.5	EA	1/2C-#2#12IG	CP:26	SEE RMKS	SEE RMKS	EC TO EXTEND CIRCUIT TO IG4700 RECEPTACLE IN OEP							
039.10E1	1	ICE MACHINE - 1400 LB.	208/3	13.4	20A	1/2C-#3#12	AP-2:(1,3,5)	SEE RMKS	SEE RMKS	EC SUPPLIES 30A-3P NF DISC SW MTD 9" BELOW CEILING PER NEC 404.8(A) EX2 VERIF Y/AHJ	215.04E5	2	POS - KVS MONITOR	120/1	1.5	EA	1/2C-#2#12IG	CP:3	SEE RMKS	SEE RMKS	EC TO EXTEND CIRCUIT TO IG4700 RECEPTACLE IN CHASE							
039.10E2	1	ICE MACHINE - 1400 LB.	-	-	-	-	-	JB	4"-6"	CONTROL WIRES TO REMOTE CONDENSER	215.04E7	3	POS - KVS MONITOR	120/1	1.5	EA	1/2C-#2#12IG	CP:23	IG4700	5'-6"	-							
039.15E1	2	ICE MACHINE - 1000 LB.	120/1	1.1	15A	1/2C-#2#12	AP-1:37,39	5-20R	SEE RMKS	MOUNT 9" BELOW CEILING - CIRCUIT BREAKERS SHALL BE HACR TYPE	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							
039.15E2	2	ICE MACHINE - 1000 LB.	-	-	-	1/2C	-	JB	SEE RMKS	MOUNT 9" BELOW CEILING - CONTROL WIRES TO REMOTE CONDENSER	215.07E1	1	POS REGISTER - DELIVERY	120/1	3.0	20A	1/2C-#2#12IG	CP:23	IG4700	3'-6"	-							
041.06E1	1	ICE MACHINE																										

PB = Pullbox
JB = Junction Box
EC = Electrical Contractor

VIF = Verify in Field

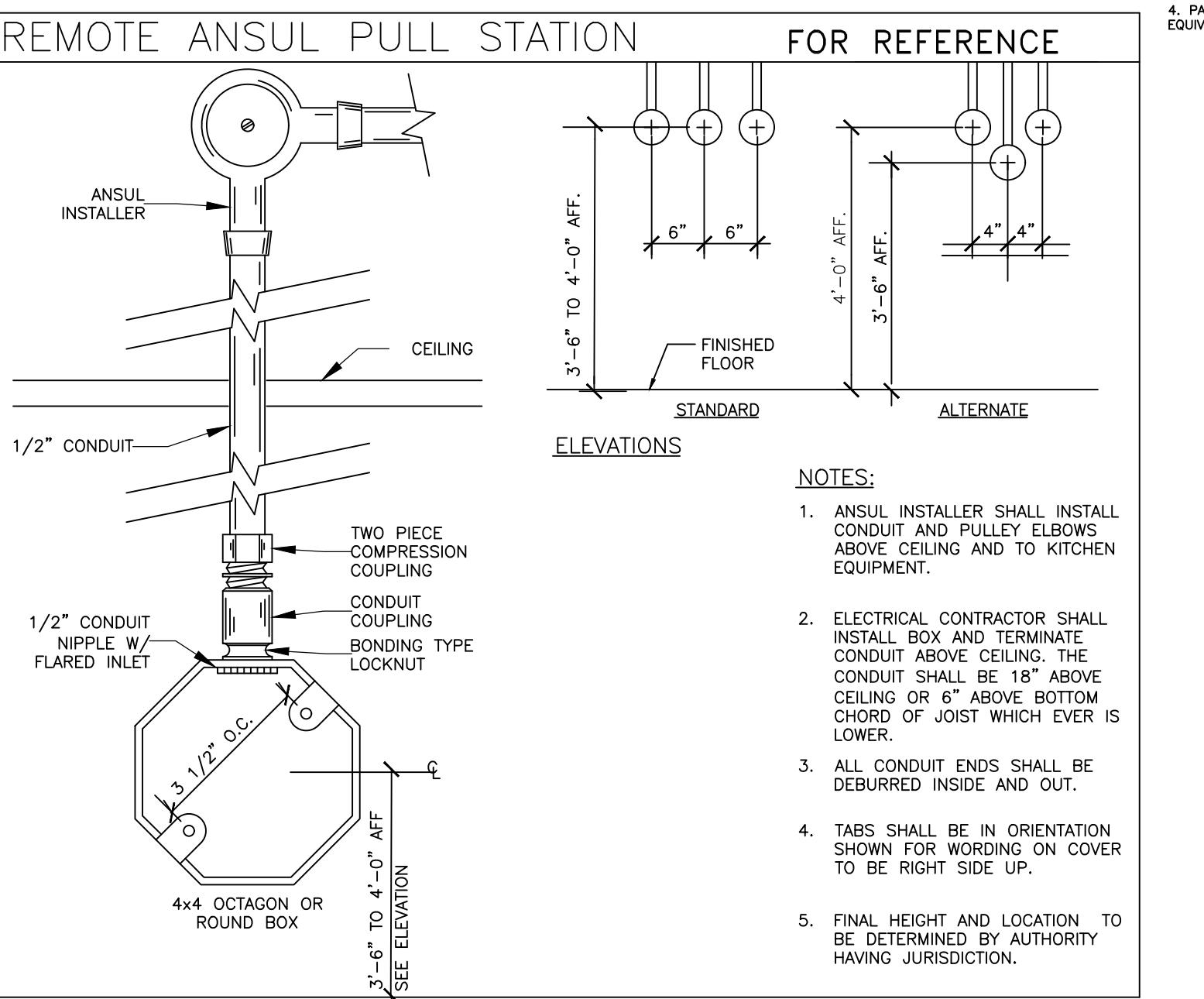
ELECTRICAL SCHEDULE

TAG #	QTY	DESCRIPTION	VOLT/PH	FLA	BRK SIZE	COND/WIRE	PNL/CCT	RECEP TYPE	HGT AFF	REQUIREMENTS & REMARKS
701.34E1	1	ACCESS CONTROL PANEL	120/1	2.0	20A	1/2"-C-#2#12	LP-1:16	JB	8'-0"	ROUTE LOW VOLTAGE WIRES TO DOOR BUTTON, HORN AND DOOR STRIKE AS REQUIRED. SUPPLY WITH 4 RELAY CONTROL BOARD.

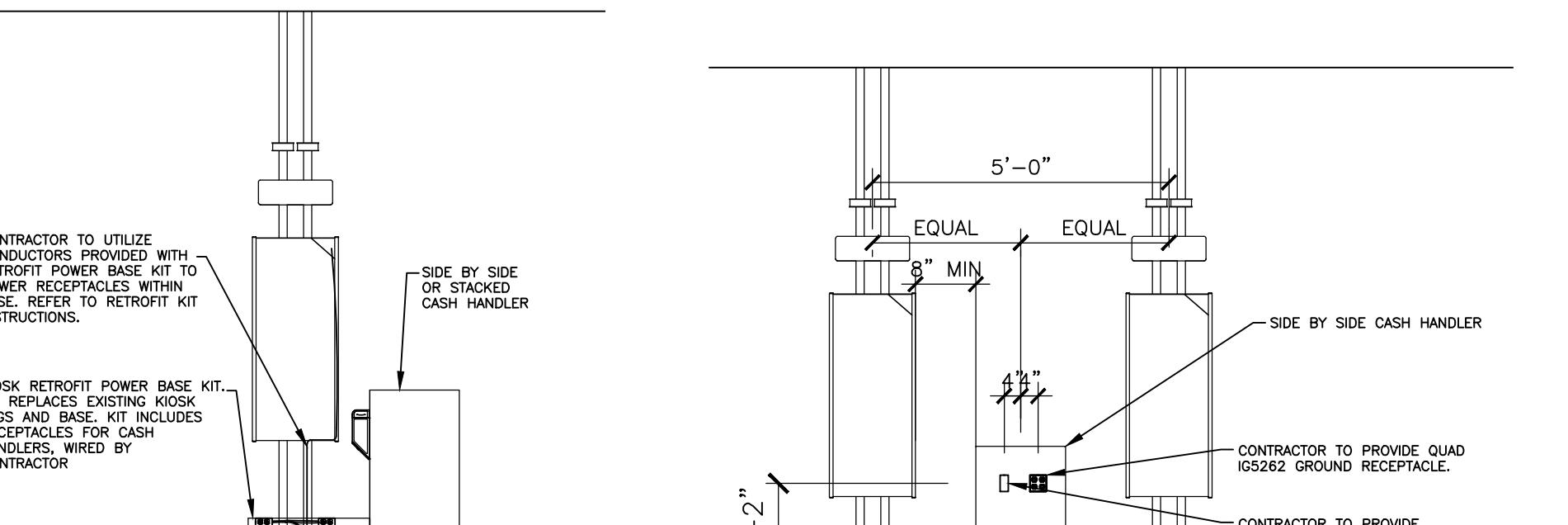


SYMBOL	CATALOG #	DESCRIPTION
[Symbol]	HEALUSTOR & 164700	RECEPTACLE COVERPLATE WITH ORANGE, TWO PLUG GROUNDED GROUND, DUAL RECEPTACE
[Symbol]	HEALUSTOR & 5-20R FOR BAKED GOODS AND 50262 FOR CAR	RECEPTACLE COVERPLATE WITH STRAIGHT PLUG GROUNDED GROUND, DUAL RECEPTACE
[Symbol]	HEALU57LPB	COMMUNICATIONS COVERPLATE
[Symbol]	HEALU762080M290	2' SECTION OF RACEWAY, INCLUDES TEE, COUPLING, END PLATE
[Symbol]	HEALU76080M290	3' SECTION OF RACEWAY, INCLUDES COUPLING, END PLATE
[Symbol]	HEALU76108M2	SERVICE ENTRANCE FITTING & BUSHING FOR DATA CABLES
[Symbol]	HEALU76108	BLANK END FITTING
N/A	HEALU7601	COUPLING (INCLUDES WITH RACEWAY SECTION)
N/A	HEALU7609	GROUND ADAPTER

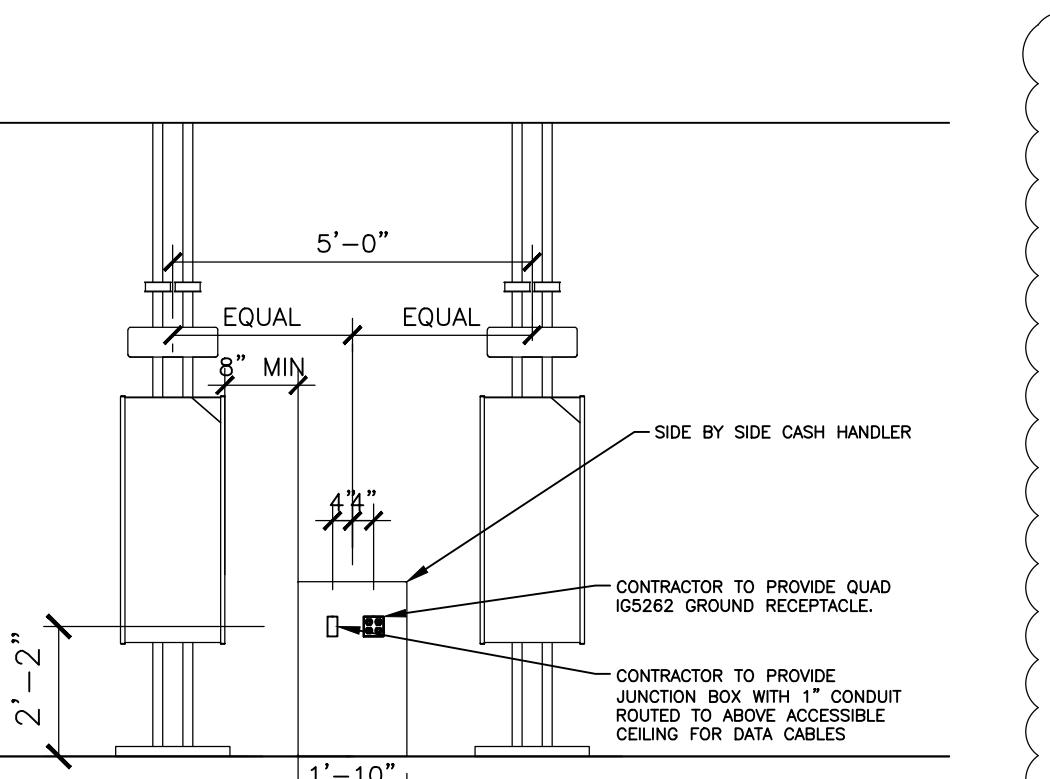
- NOTES:
1. REFER TO SERVICE POD MANUFACTURER INSTRUCTIONS FOR EXACT PLACEMENT OF RACEWAY.
2. RACEWAY AND RECEPTACLES TO BE PROVIDED WITH SERVICE POD, INSTALLED BY CONTRACTOR.
3. DETAIL IS A TYPICAL CONFIGURATION ONLY. SITE SPECIFICS MIGHT CAUSE DEVIATIONS.
4. PART NUMBERS SHOWN REFLECT HUBBELL, SOME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



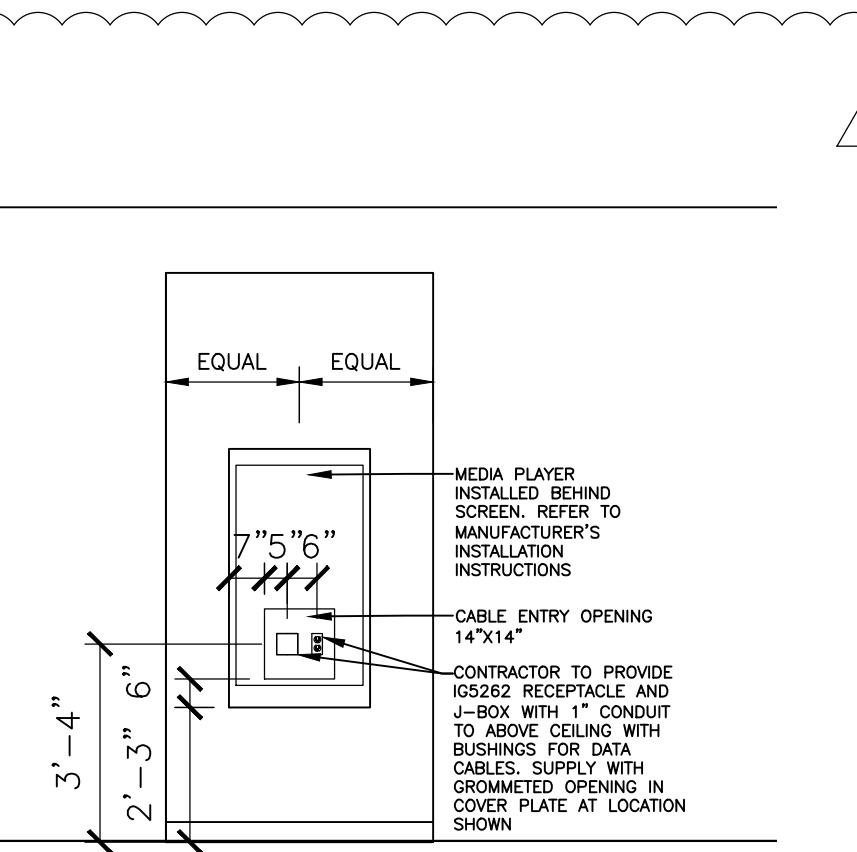
1 SERVICE POD RACEWAY DETAIL
E-3.1 / NOT TO SCALE



NOTES:
1. THIS EXAMPLE IS FOR A SIDE BY SIDE CASH HANDLER THAT DOES NOT UTILIZE CONDUCTORS PROVIDED WITH RETROFIT POWER BASE KIT TO POWER CASH HANDLERS WITHIN 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.
3. EACH STACKED CASH HANDLER UTILIZED 2 PLUGS AND ADDS 3.6 AMPS OF LOAD.
4. OVER 1 SIDE BY SIDE CAN BE CONNECTED TO A KIOSK, HOWEVER TWO STACKED UNITS CAN BE CONNECTED. REFER TO DECOR PLANS FOR EXACT CONFIGURATIONS.



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



3 DIGITAL MERCHANDISER 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 RECEPTACLES UNLESS NOTED OTHERWISE.
M3. ALL J-BOXES, DCO'S, 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 PJB01 (ONE DUPLEX) OR PJ820 (TWO DUPLEX) FROM HUBBELL.
M6. ROUGH-IN 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 AMOUNT 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 1 PAIR (OR MORE) COPPER TELEPHONE CABLE FROM THE TELEPHONE UTILITY EASEMENT TO THE RESTAURANT TELEPHONE DEMARCAION 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:

- I1. IF TELCOM CONDUIT IS TERMINATED WITHIN BUILDING, PVC SHALL TRANSITION TO HWG/RMC TYPE CONDUIT AND PULL TO FINISHED SLAB.
I2. PROVIDE THERMOPLASTIC BUSHINGS AT BOTH ENDS OF CONDUIT FOR CABLING PROTECTION.
I3. IF 90 DEGREE BENDS ARE REQUIRED, CONTRACTOR SHALL PROVIDE WIDE SWEEPING BENDS TO PREVENT BENDING/DAMAGE TO CABLE.
I4. ALL COMMUNICATIONS CABLING SHALL BE PULLED VIA THIS CONDUIT.
I5. 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 AWG SOLID COPPER CONDUCTORS WITH NOT LESS THAN 200 LB TENSILE STRENGTH. PROVIDE AT LEAST 12 INCHES OF SLACK AT EACH END OF PULL WIRE.
I6. 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

CONDUT 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 (SMUR-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 PULL #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:

- O1. EXPOSED: RMC, IMC.
O2. CONCEALED: RMC, IMC.
O3. BELOW GRADE, SINGLE RUN: RNC, RMC.
O4. BELOW GRADE, GROUPED: RNC, RMC.
O5. CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC, ELECTRIC SOLENOID, OR MOTOR-DRIVEN EQUIPMENT): LFMC.
O6. BOXES AND ENCLOSURES: NEMA 250, TYPE 3R OR 4.

- INDOORS: (FOR SPECIFIC APPLICATIONS AND APPROPRIATE FITTINGS, SEE TABLE W6)
1. EXPOSED: RMC, IMC.
2. CONCEALED: RMC, 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 COMP. 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 COMP. FTGS >2.5" IMC THREADED. FTGS	2" EMT COMP. FTGS >2.5" IMC THREADED. FTGS	EMT COMP. FTGS
NON AIR HANDLING CEILING/SPACE	<2" EMT SET SCREW FTGS >2.5" IMC THREADED. FTGS	<2" EMT COMP. FTGS >2.5" IMC THREADED. FTGS	EMT 1/2"- 2" SET SCREW FTGS 2.5"- 4" COMP. FTGS
BELLOW 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 GROUNDBUS CONDUCTOR CONTAINED WITHIN THE SAME CONDUIT AS THE PHASE CIRCUIT CONDUCTORS AND SIZED PER NEC SECTION 250 REQUIREMENTS. THIS INSULATED CONDUCTOR GROUNDBUS SHALL HAVE ONE END PROPERLY TERMINATED TO 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 AN EQUIPMENT CABINET AS APPLICABLE. THE SECOND METHOD PROVIDES EQUIPMENT GROUNDBUS VIA METALLIC CONDUIT THAT IS CONNECTED AND TERMINATED IN FITTINGS LISTED FOR GROUNDBUS PER NEC SECTION 250 REQUIREMENTS. BOTH GROUNDBUS SHALL BE INSTALLED WHERE INDICATED ON PLAN AND AS SHOWN IN POS ISOLATED GROUNDED/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 GROUNDBUS 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 GROUNDED/DEDICATED CIRCUIT DETAIL, SHEET E4.2, FOR REQUIRED WIRING REQUIREMENTS OF COMPUTER PANEL CP.
- G4. METAL RACEWAYS CONTAINING A GROUNDED ELECTRODE CONDUCTOR SHALL BE BONDED AT BOTH ENDS AS REQUIRED BY NEC SECTION 250 REQUIREMENTS.

TEMPERATURE CONTROLS:

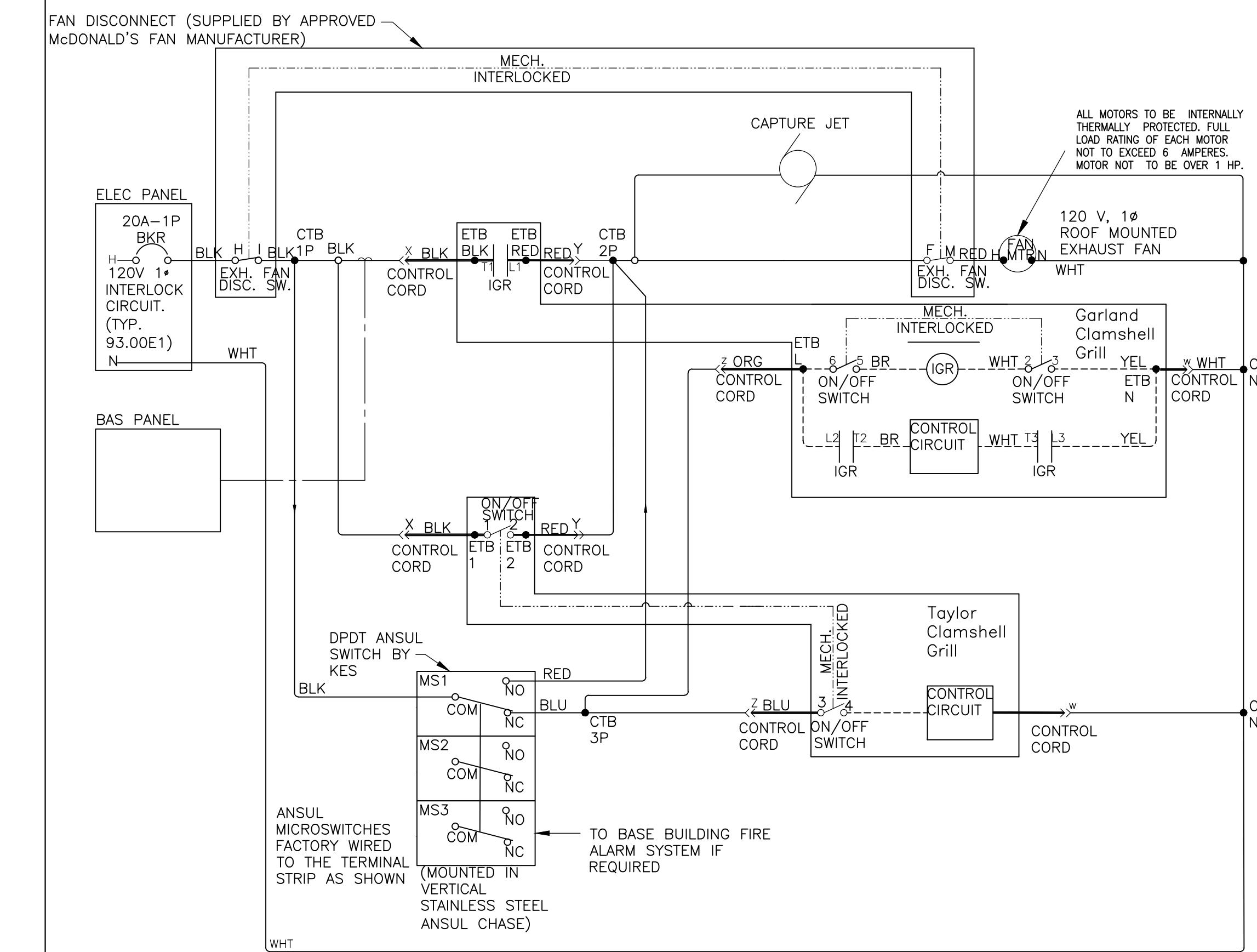
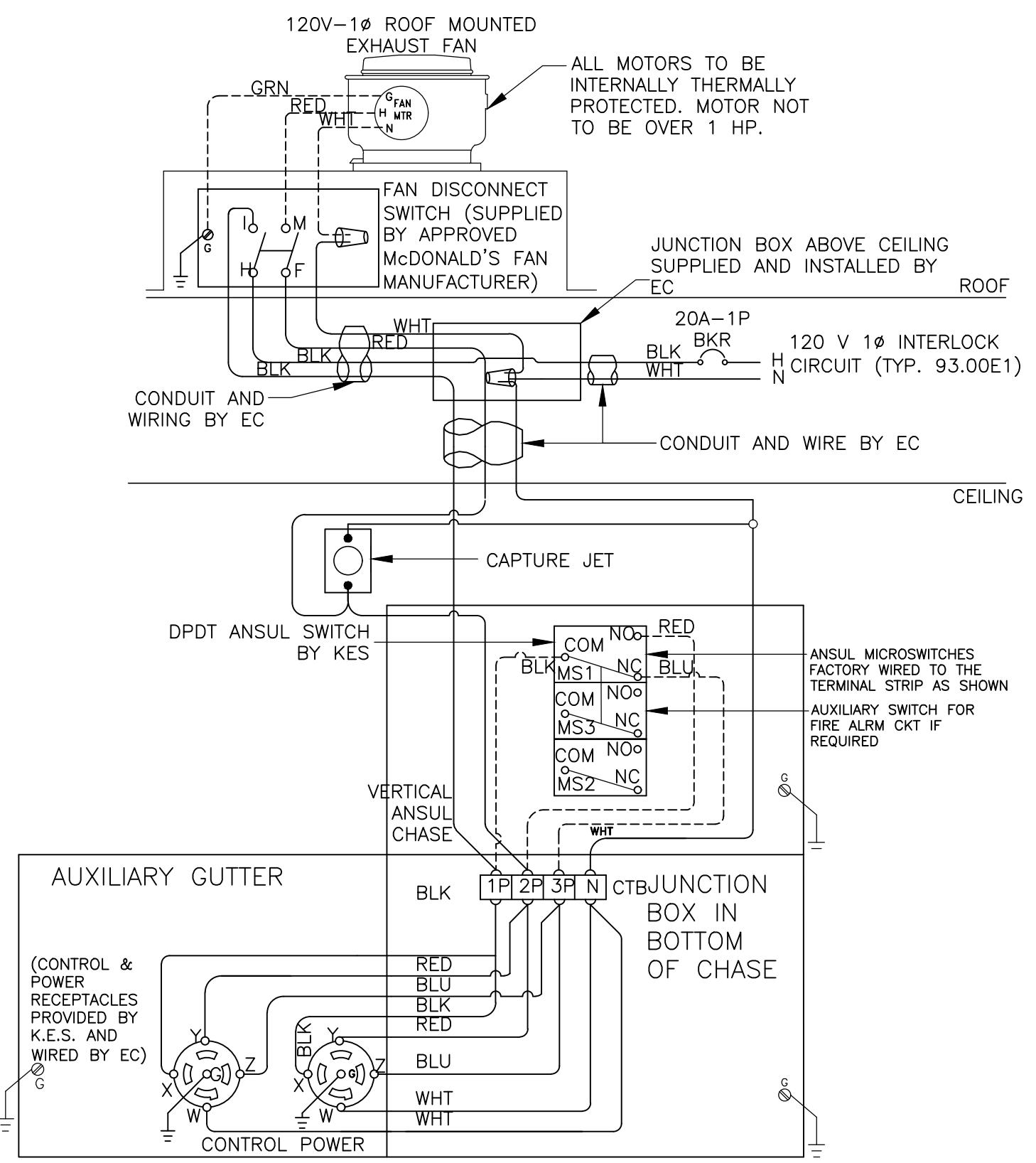
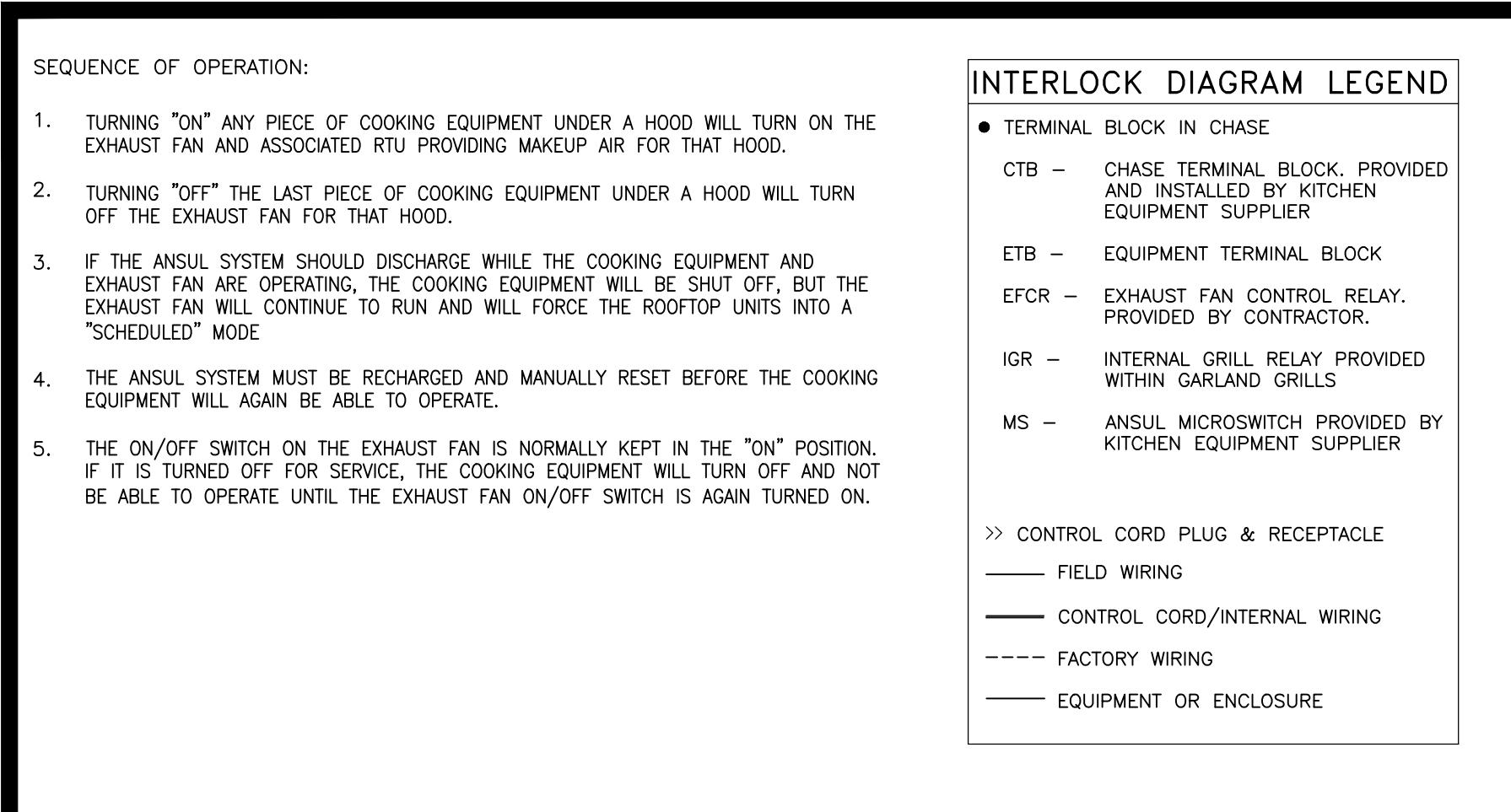
- T1. REMOTE TEMPERATURE SENSORS: EC SHALL PROVIDE 1/2" CONDUIT FROM JUNCTION BOX ABOVE CEILING DOWN TO SENSOR MOUNTED AT 4'-0" TO 4'-6" AFF.
T2. SEE DETAIL ON SHEET M.3. FOR SENSOR MOUNTING DETAIL. LOCATION OF WALL MOUNTED TEMPERATURE SENSORS ARE SHOWN ON SHEET M.1 AND E.20.
T3. WHEN WIRING FOR PROGRAMMABLE 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 BALASTS, 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

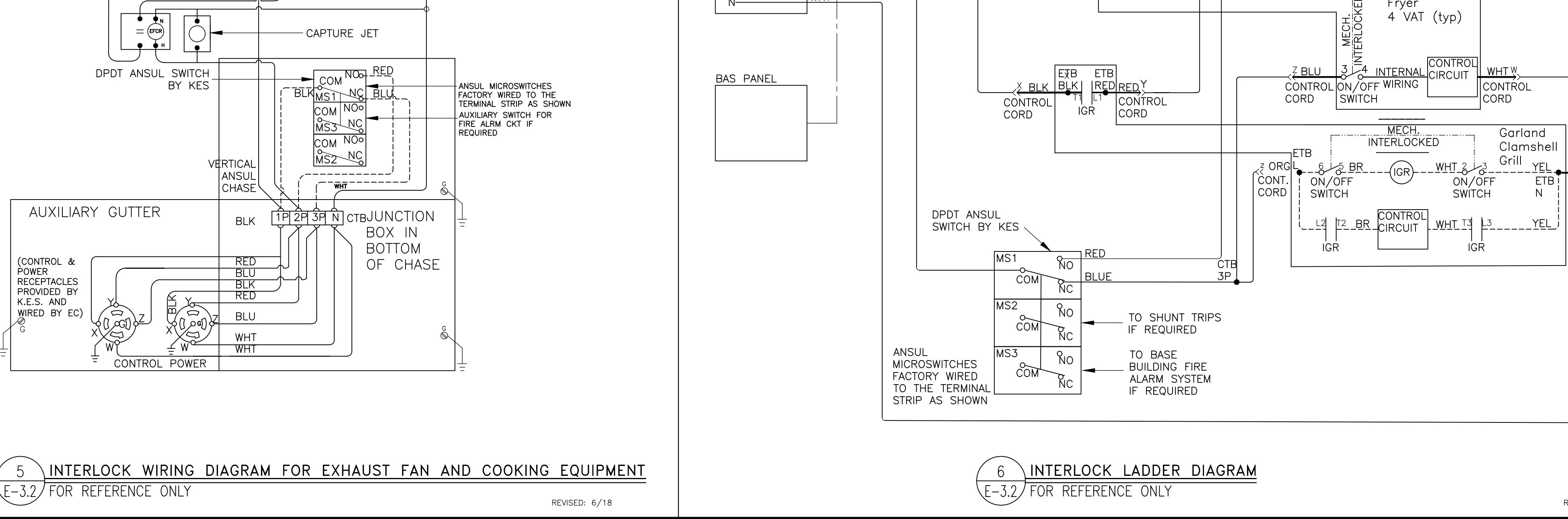
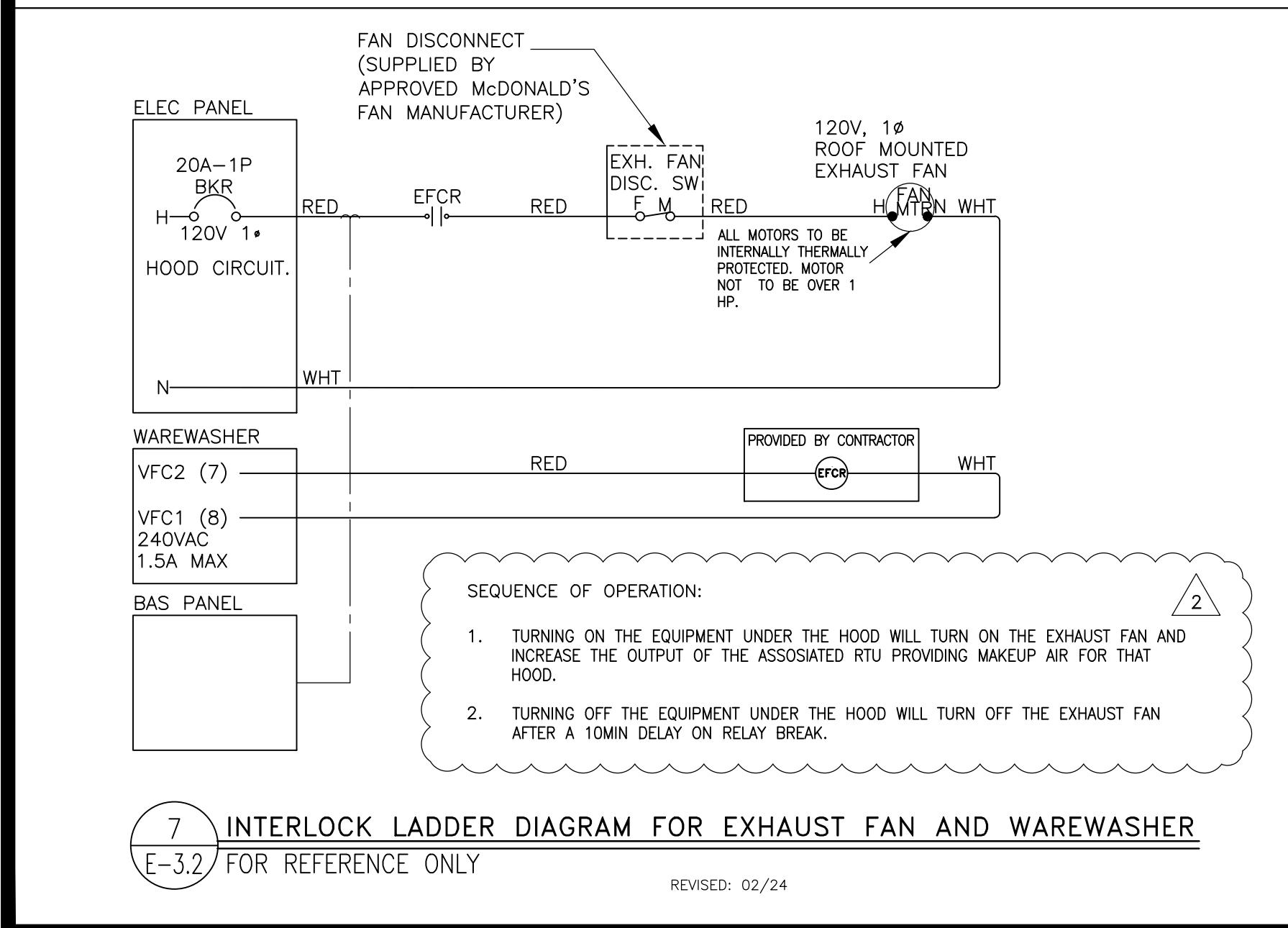
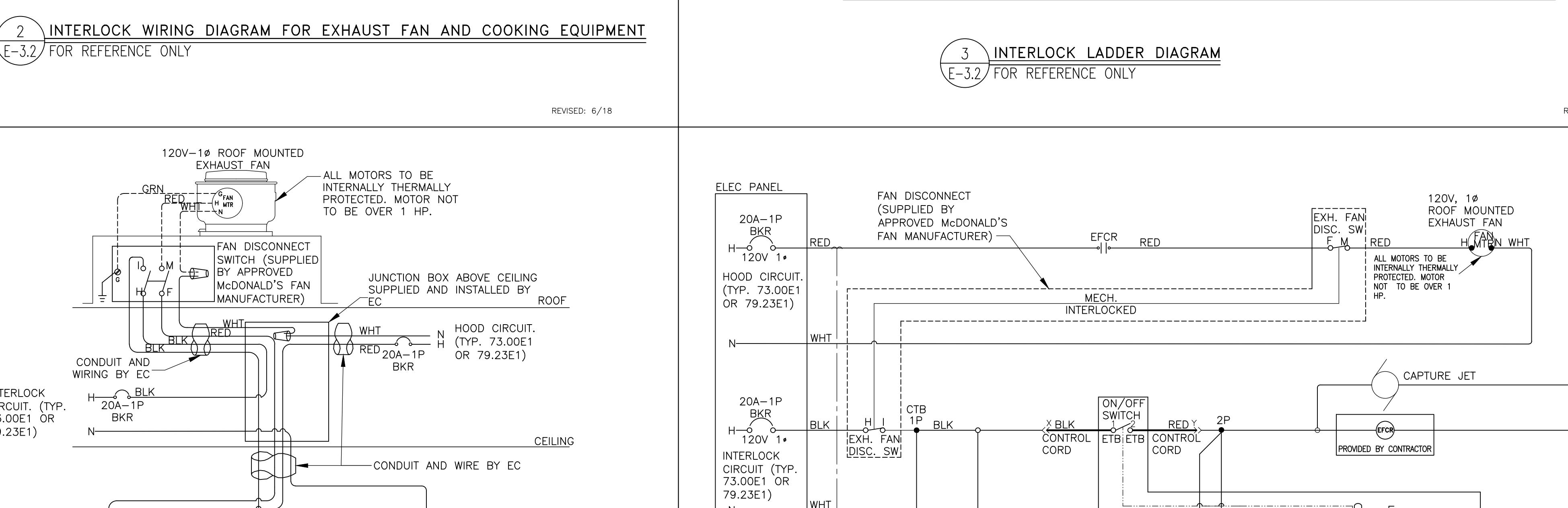
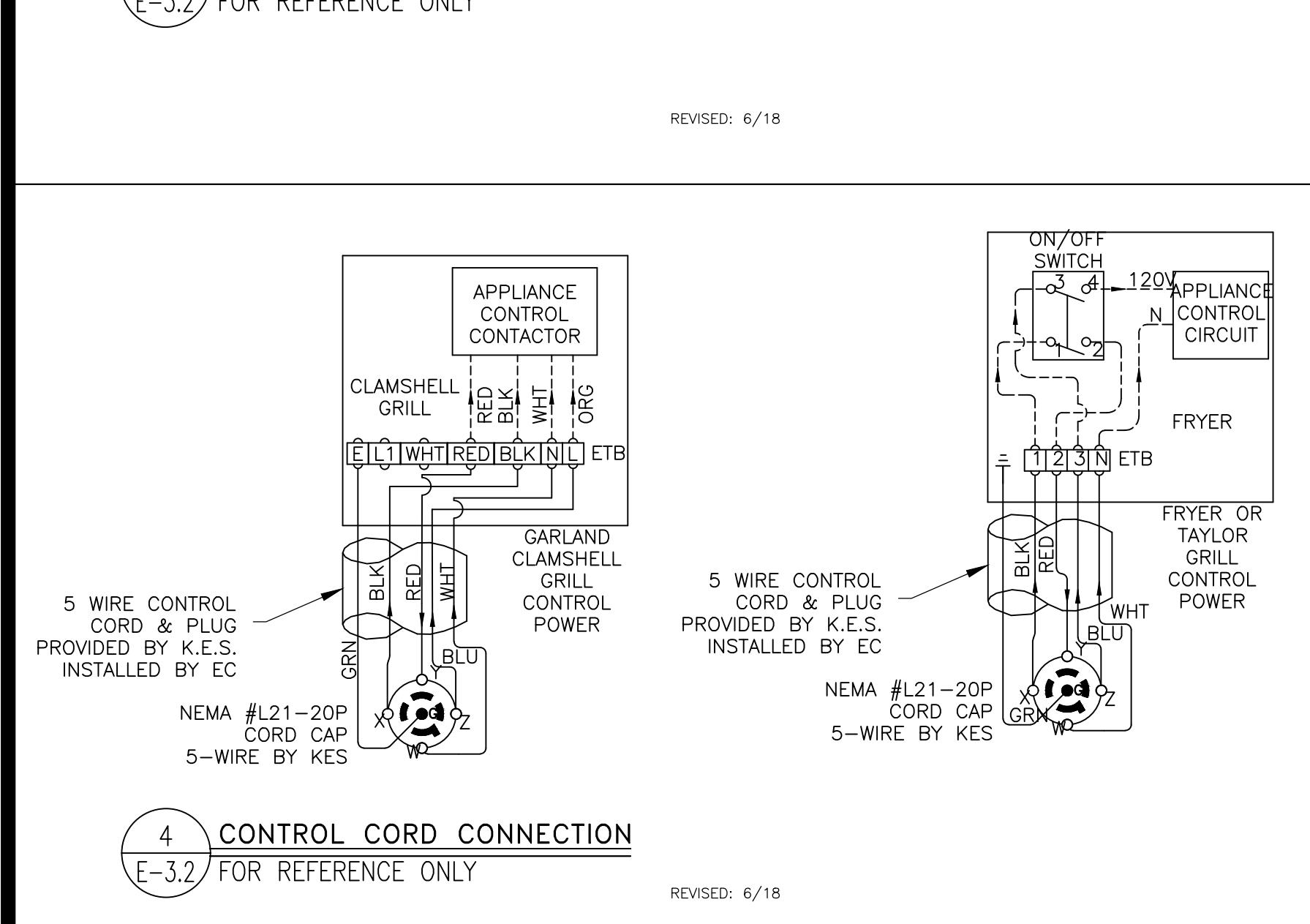


SHEET NO.	TITLE	PREPARED FOR:	BY
1	09/26/24	MCD GC COMMENTS & FOUNDATION, PLUMBING, AND DOOR UPDATES	
2	12/26/24	ELEVATIONS REDESIGN & PROTO UPDATE	
3	07/26/25	SQUARED OFF BACK & ADDED V/H ARTICULATIONS & UPDATED ADDRESS	
		DESCRIPTION	

Robert D. Anderson, Inc.
MEP Engineering & Design Consultants
HVAC/illumination/Plumbing/Power Distributor/Control
Robert D. Anderson
4403 Zinn Rd.
Garland, TX 75043
voice: 972-447-7024
email: robert.anderson@bigslegal.net
contact: Mark Swanson/Project Manager
voice: 817-556-0986
email: mark@mjwdesigns.com

DRAWING P. ILLUSTRATIVE AND AS SUCH ARE STUDIES FOR DESIGN PURPOSES ONLY. THEY ARE NOT DRAWINGS PREPARED FOR SPECIFIC USE ON THE JOB AND NOT INDICATE EXACT SIZE OR LOCATION. THEY ARE NOT DRAWINGS PREPARED FOR CONSTRUCTION. THIS DRAWING IS THE PROPERTY OF THE ENGINEER. DRAWINGS ARE NOT TO BE COPIED OR USED IN ANY WAY WITHOUT THE EXPRESS WRITTEN CONSENT OF THE ENGINEER.

ROBERT D. ANDERSON
4403 ZINN RD
GARLAND, TX 75043
Firm No. F-5324
07/26/26



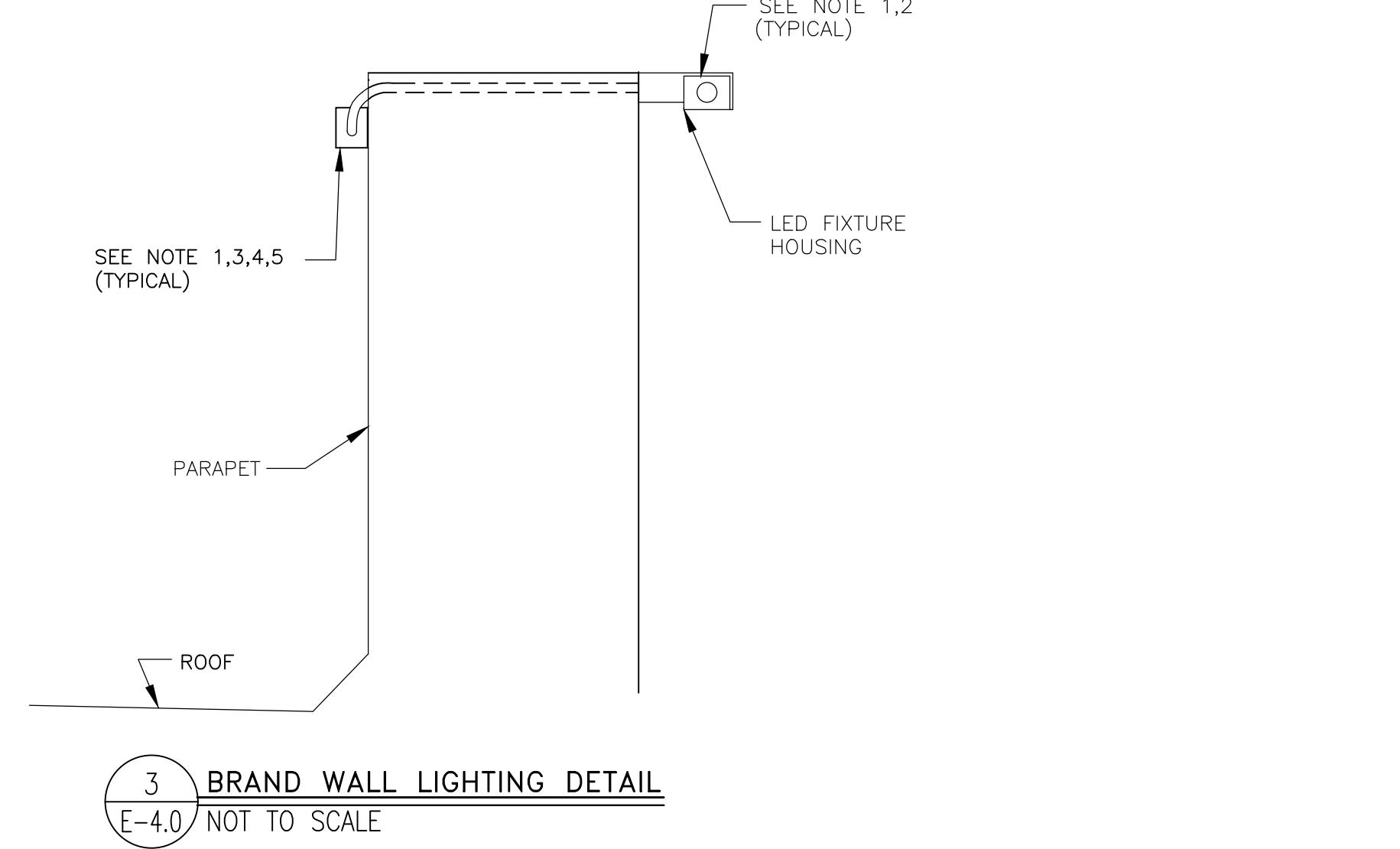
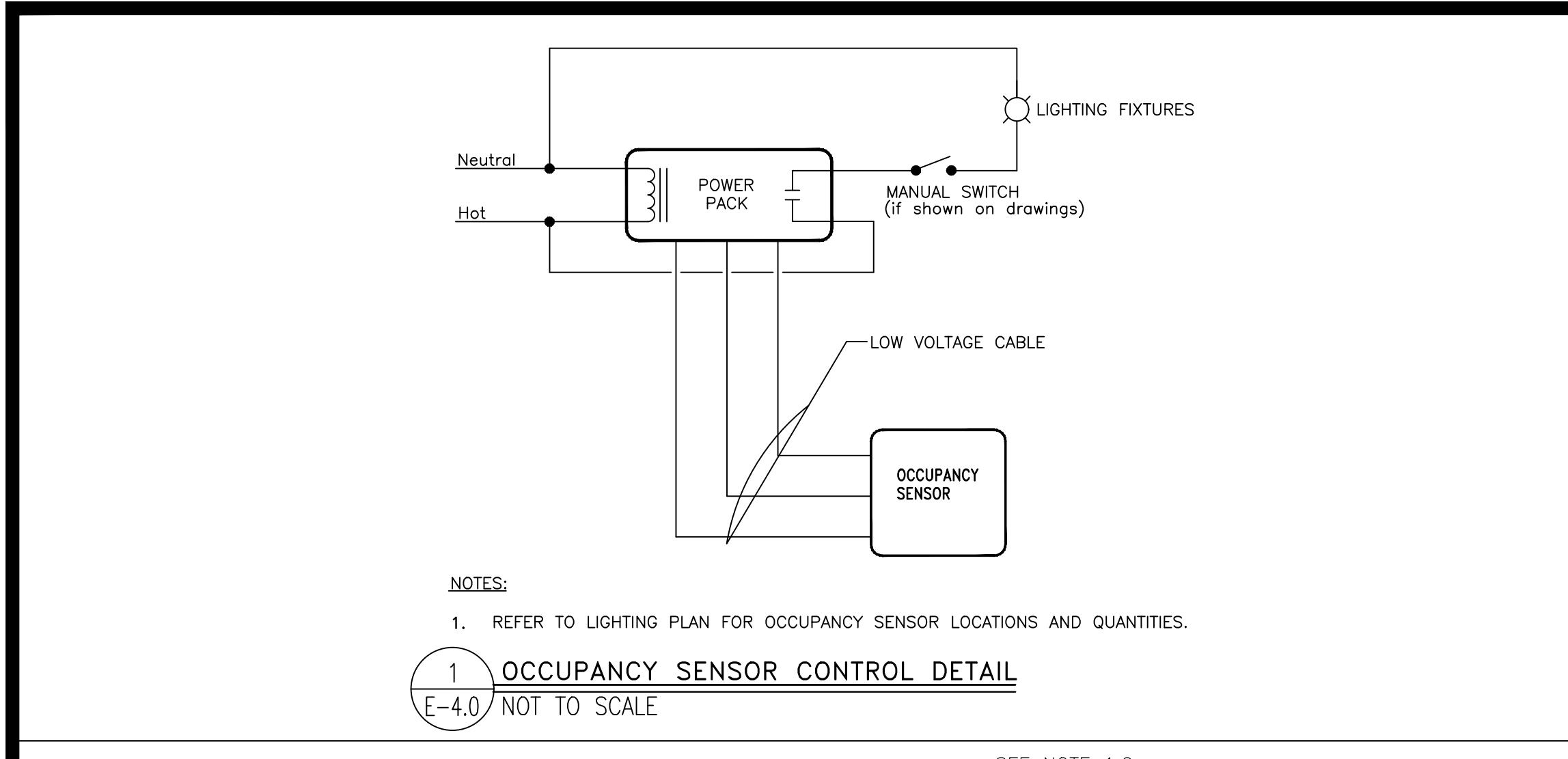
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PREPARED FOR:
m McDonald's USA, LLC

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DRAWN BY	MES
STD ISSUE DATE	2024
REVIEWED BY	JAW
DATE ISSUED	07/19/2024
ADDRESS	4584 - WOOD/WOOD
ITEM	2024 STANDARD BUILDING - BB20
DESCRIPTION	WOOD BEARING WALLS WITH HARDIE SIDING
WOOD ROOF TRUSS FRAMING	
EPS/BATTEN/ALUMINUM/HARDIE SIDING EXTERIOR FINISHES	
SITE ID	042-3548
SITE ADDRESS	13620 E US 290 HWY MANSFIELD, TEXAS

JAVA 24-0107
E 3.2
INTERLOCK DIAGRAMS



GENERAL NOTES

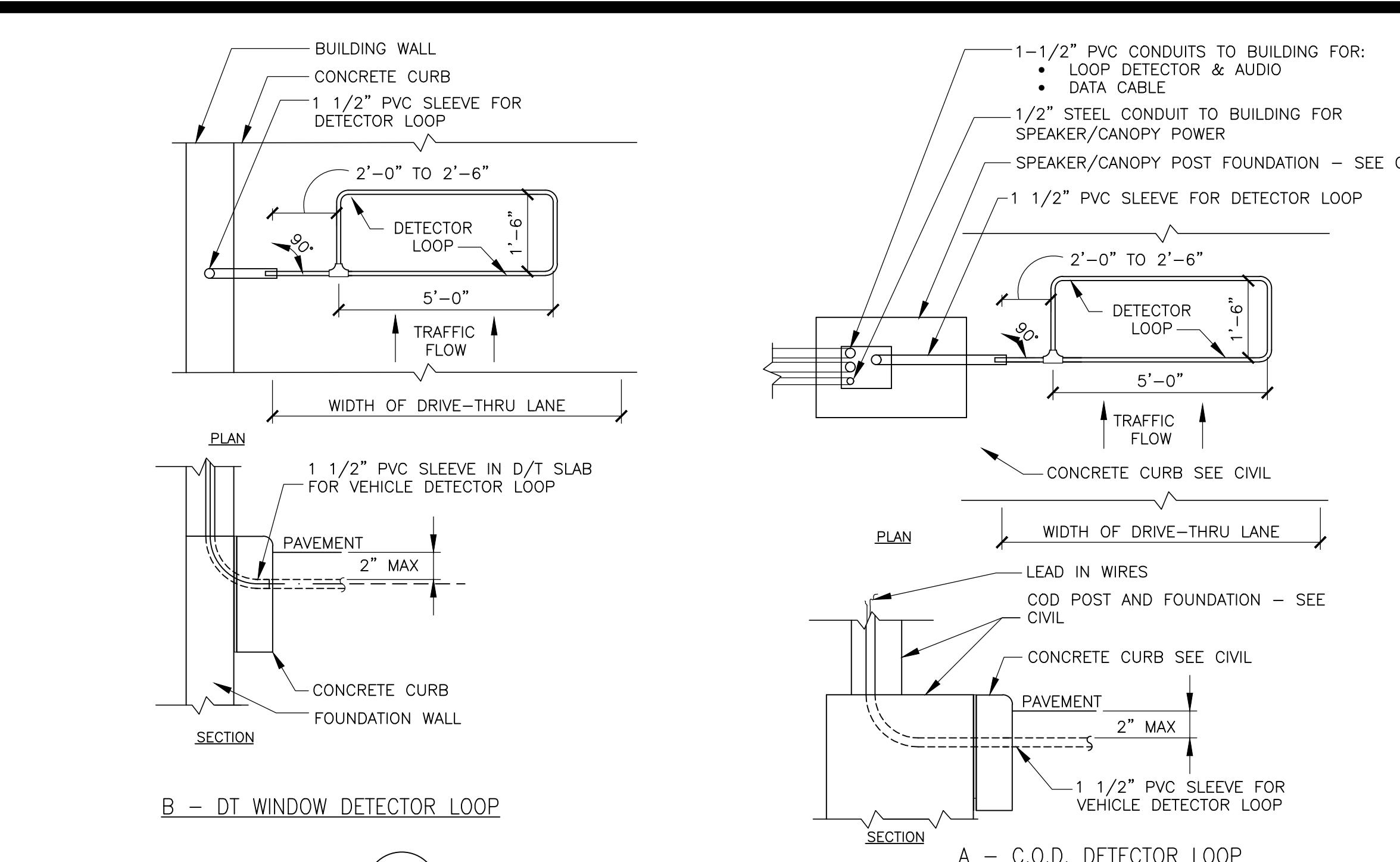
1. PLACE LED FIXTURE AT DESIRED LOCATION AND INSTALL FIXTURE FROM LEFT TO RIGHT WHEN FACING ARCADE AND ATTACH POWER SUPPLY AND MOUNTING BRACKET AS RECOMMENDED BY MANUFACTURER.
2. EC SHALL CONNECT NEW FIXTURES TO THE NEXT AVAILABLE SPARE 120V CIRCUIT AND MAKE ALL ELECTRICAL CONNECTIONS AS REQUIRED FOR 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 HVAC GROUNDING DETAIL
E-4.0 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.

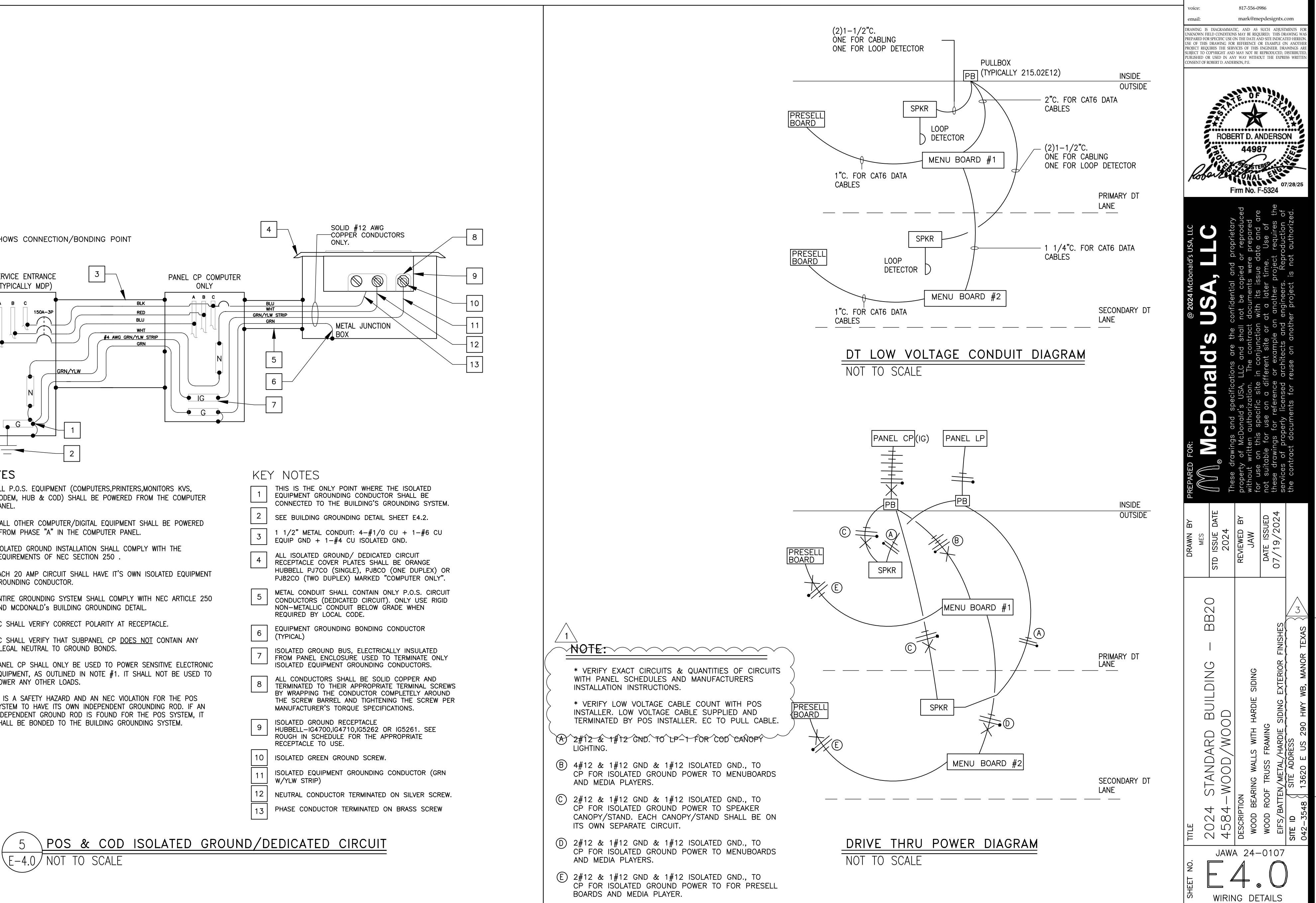


- NOTES**
1. VERIFY CONDUIT SIZES AND LAYOUT WITH DETECTOR LOOP MANUFACTURER.
 2. CENTER VEHICLE DETECTOR LOOP (ITEM # 217.11E1) IN DRIVE THRU LANE. INSTALL PER MFR. RECOMMENDATIONS.
 3. SEE CIVIL FOR DIMENSIONS OF DRIVE-THRU LANE CONCRETE PAD FOR DETECTOR LOOP.
 4. NO STEEL (REBAR OR ELECTRICAL WIRE) SHALL BE USED WITHIN 2' OF LOOP.
 5. DETECTOR LOOP MANUFACTURERS:
DETECTOR LOOPS MAY BE BY ONE OF THE FOLLOWING 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.

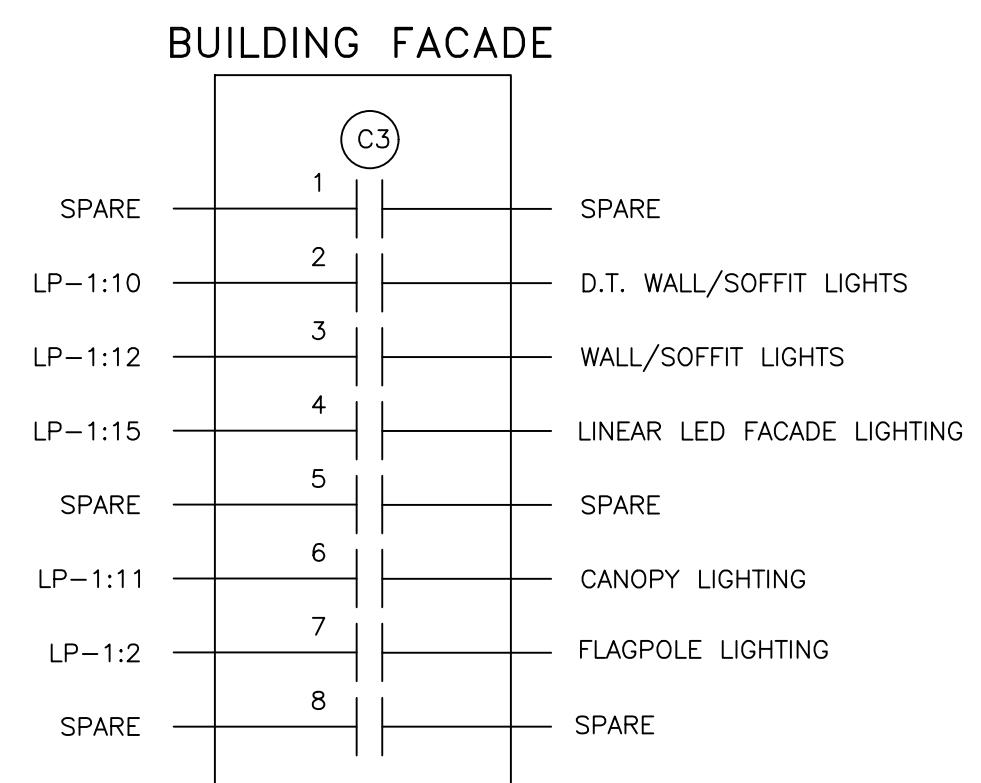
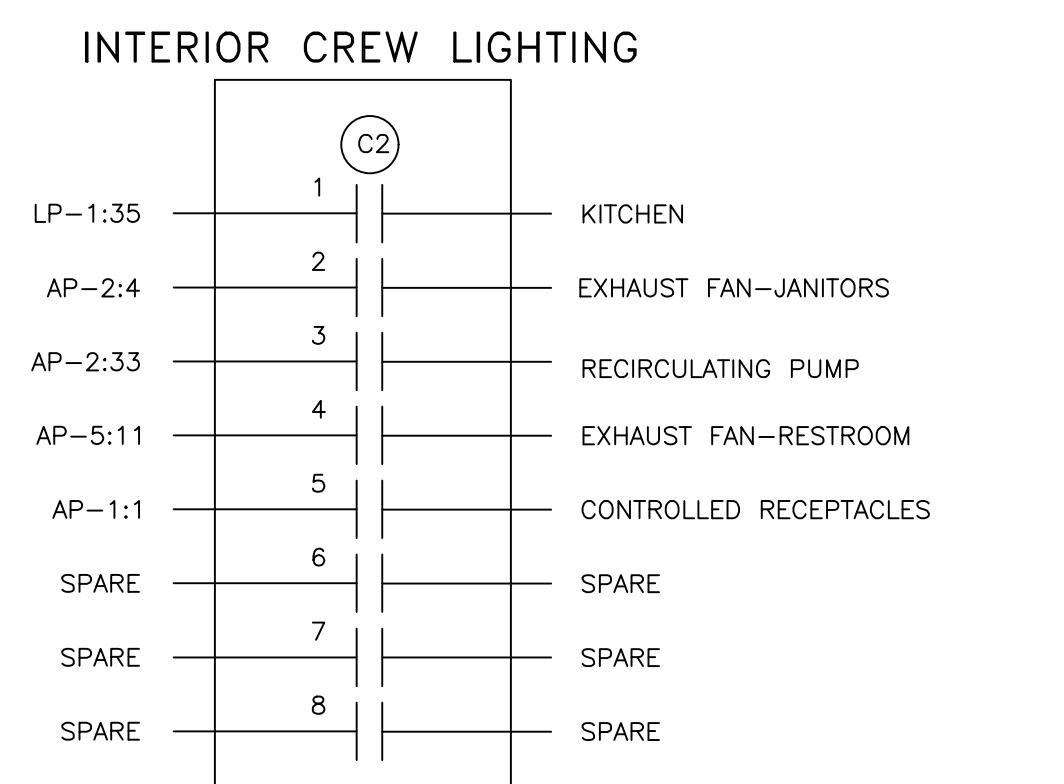
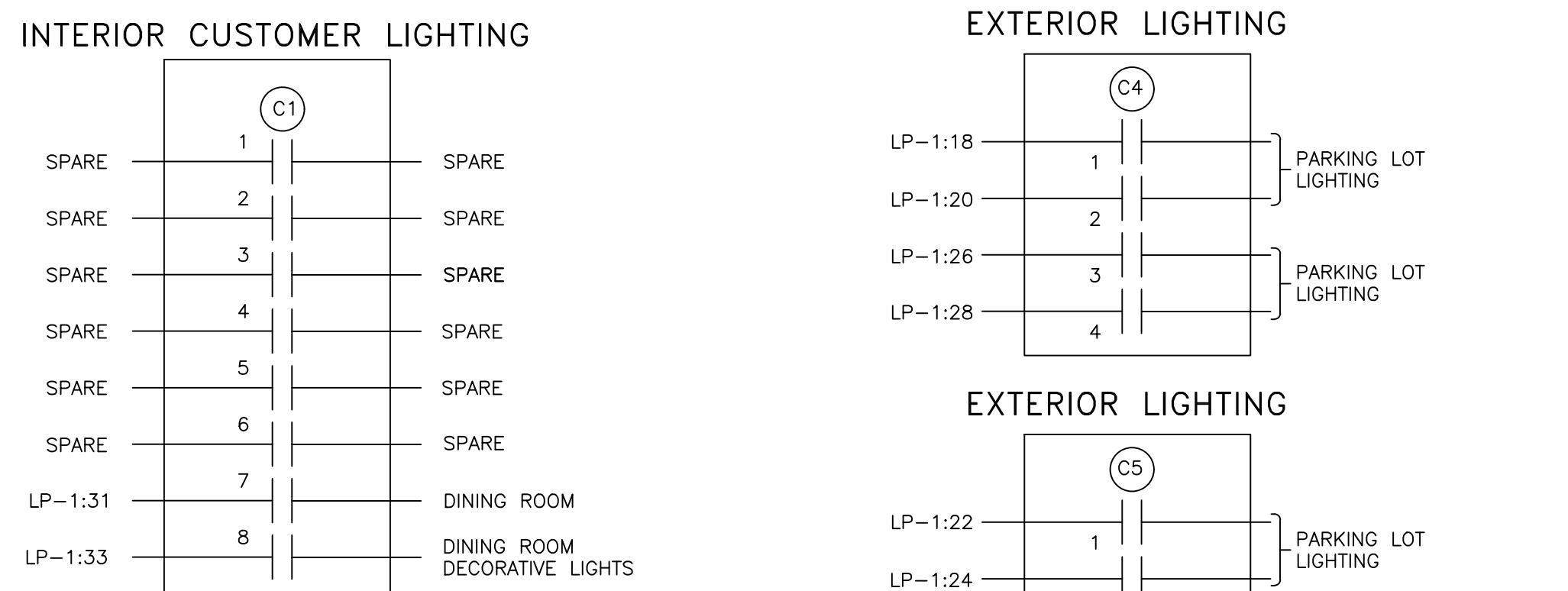
Robert D. Anderson, Inc.
MEP Engineering & Design Consultants
HVAC/illumination/Plumbing/Power Distributor/Control
Robert D. Anderson
4405 Zinn Rd.
Garland, TX 75043
voice: 972-814-7204
email: robert.anderson@bigslegal.net
contact: Mark Swanson Project Manager
voice: 817-556-0986
email: mark@mpdesigns.com

DRIVING DIAGRAMS AND AS SUCH ADJUSTMENTS FOR DRIVING ARE NOT TO SCALE. THIS DRAWING IS PREPARED FOR SPECIFIC USE ON THE SITE AND NOT INDICATED HEREIN CAN BE USED FOR ANY OTHER PROJECT. THE CONTRACTOR PROJECT REQUIRES THE SERVICES OF THIS ENGINEER. DRAWINGS ARE THE PROPERTY OF THE CONTRACTOR. THEY MAY NOT BE COPIED OR REPRODUCED IN WHOLE OR IN PART, NOR MAY THEY BE PURCHASED OR USED IN ANY WAY WITHOUT THE EXPRESS WRITTEN CONSENT OF THE CONTRACTOR.

ROBERT D. ANDERSON
Firm No. F-5324
07/28/26



LIGHTING CONTROL SYSTEM



LIGHTING CONTROL NOTES:

LIGHTING CONTROL NOTES

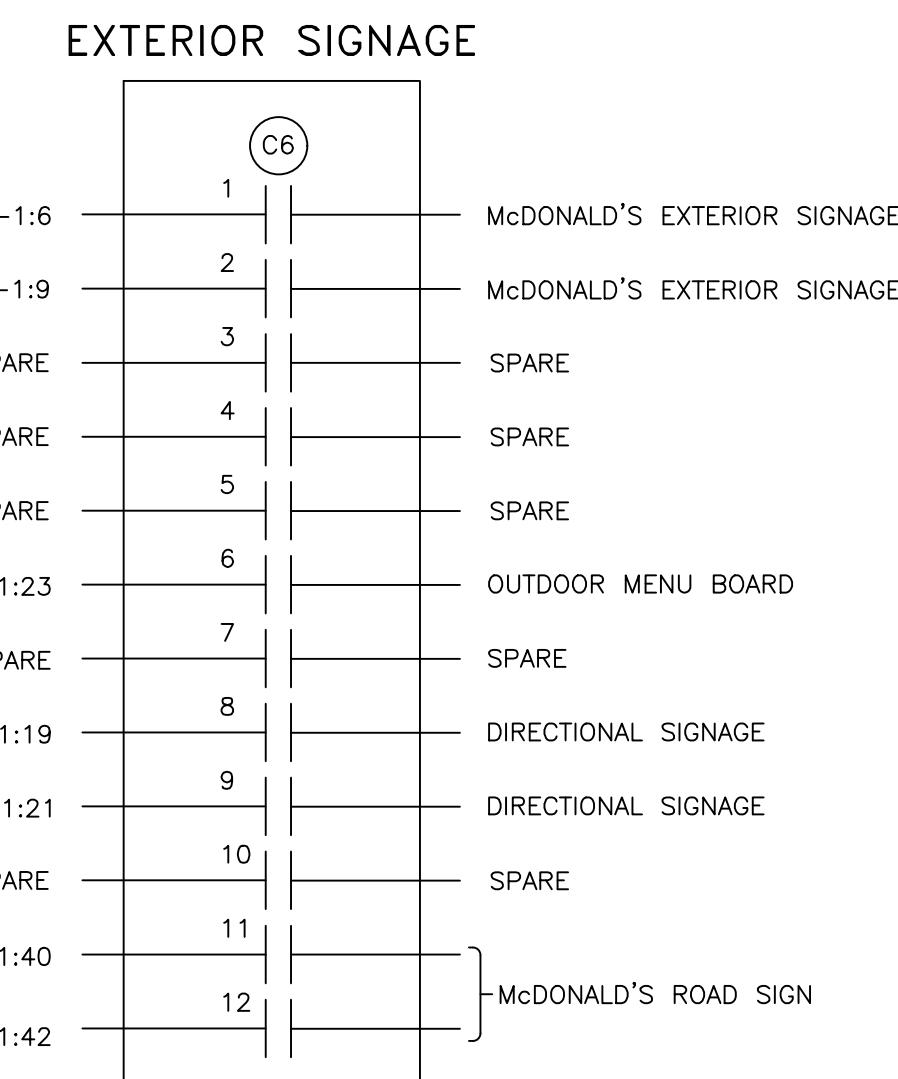
- LC1. CONTACTOR DETAILS ARE DIAGRAMMATIC ONLY AND ARE SHOWN WITH TYPICAL LOADS AND CIRCUIT ASSIGNMENTS. LOADS, CIRCUIT ASSIGNMENTS AND NUMBER OF CONTACTORS MAY VARY BY RESTAURANT LOCATION AND PER BAS SUPPLIERS SYSTEMS. VERIFY EXACT REQUIREMENTS WITH BAS INSTALLATION DETAILS, SITE PLANS, ELECTRICAL PANEL 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.

- 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.

LIGHTING CONTROL INSTALLATION OPTIONS

OPTION 1 CONTACTORS AND CONTACTOR ENCLOSURE FOR THIS LIGHTING CONTROL SYSTEM SHALL
(STANDARD) 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.



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

OTES:

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	PHOTCELL	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.

- 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.

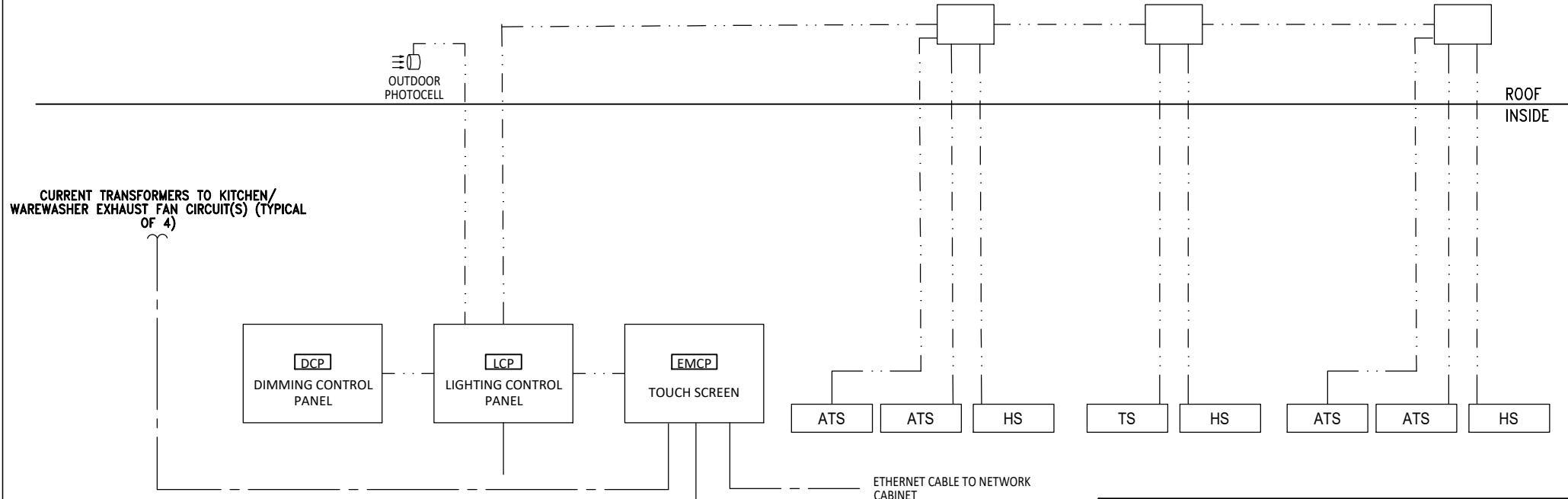
BUILDING AUTOMATION SYSTEM NOTES

- BUDGETING 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:
LENNOX BAS: McD@CCBAC.com

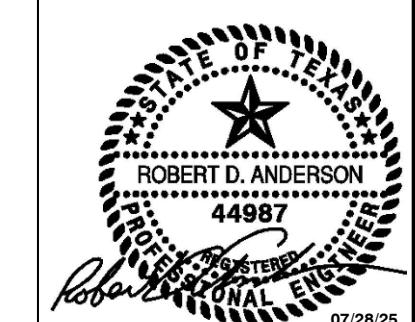


CONTROLS SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL
TS	TEMPERATURE SENSOR		*PROVIDED WITH BAS
ATS	AVERAGING TEMPERATURE SENSOR		*PROVIDED WITH BAS
HS	HUMIDITY SENSOR		*PROVIDED WITH BAS

WIRE LEGEND

WIRE LEGEND	
MARK	WIRE/CABLE TYPE
— — — — —	CAT 5E
— . . — — —	18 AWG CONDUCTORS



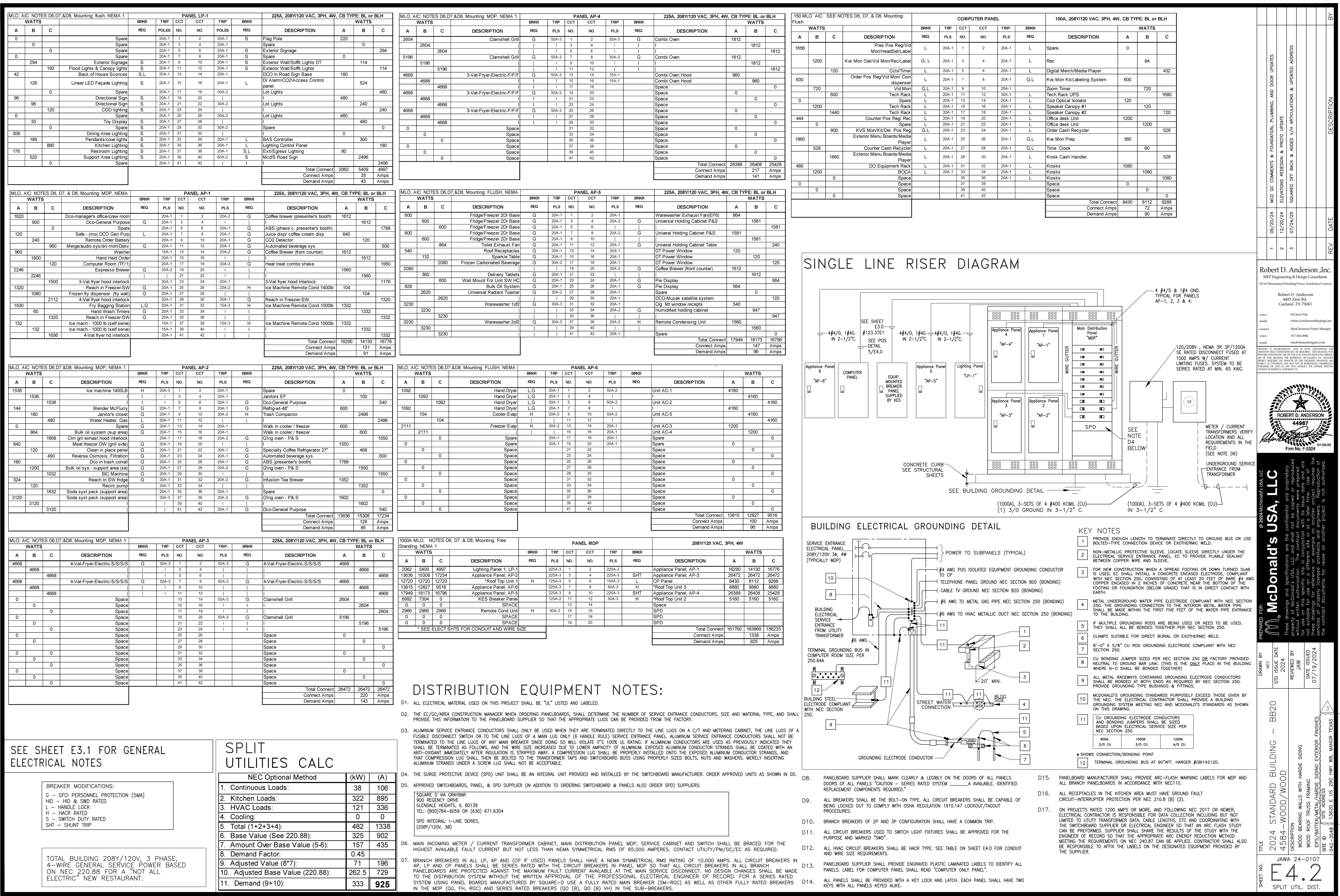
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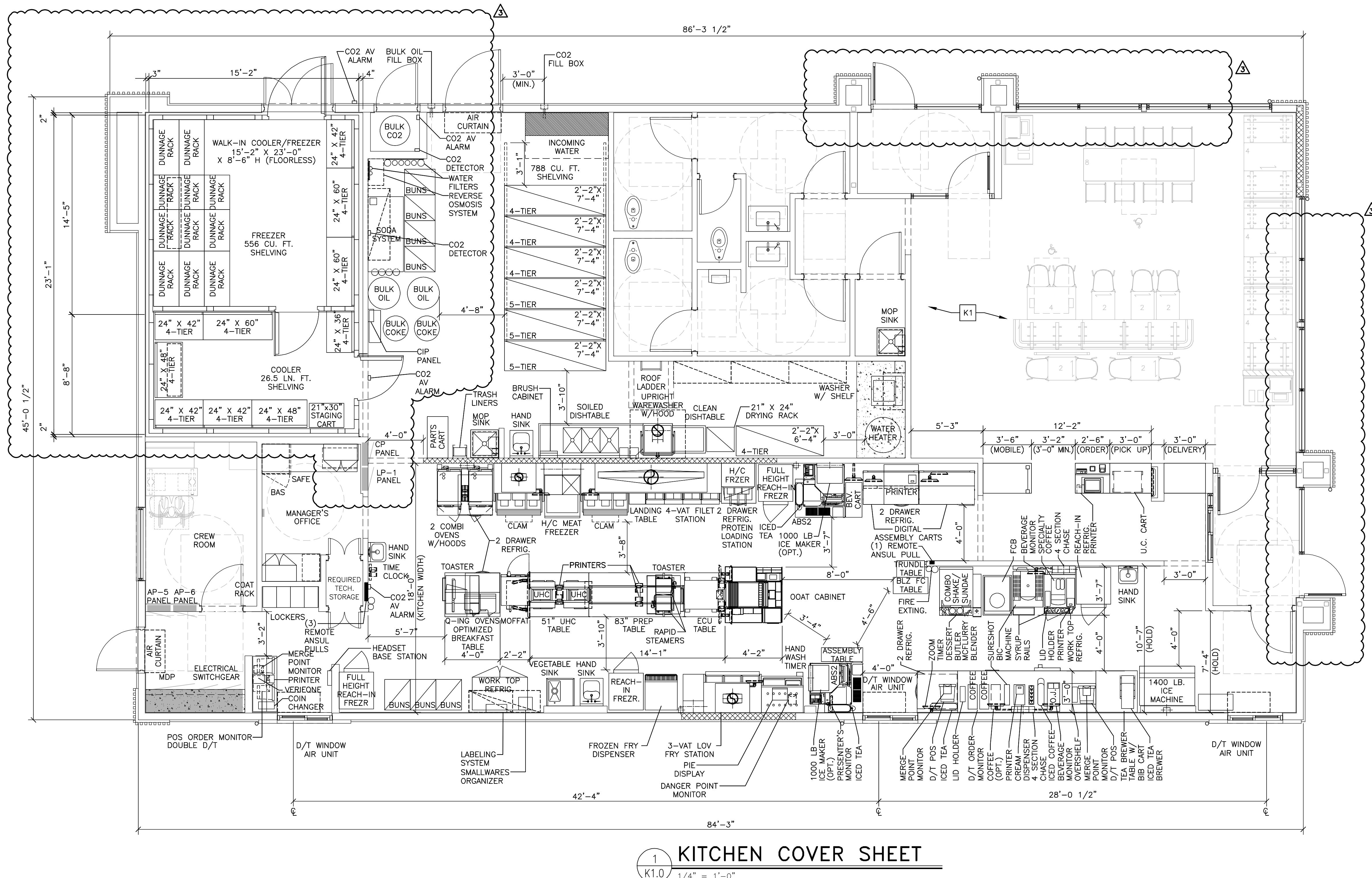
The logo for McDonald's USA, LLC. It features a stylized 'M' composed of two overlapping circles, with a registered trademark symbol (®) at the bottom right. To the right of the 'M', the words "McDonald's" are written in a bold, italicized, sans-serif font, followed by "USA, LLC" in a smaller, regular, sans-serif font.

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SHEET NO.	TITLE	DRAWN BY DES
	2024 STANDARD BUILDING – BB20 4584-WOOD/WOOD	STD ISSUE DATE 2024
	DESCRIPTION	REVIEWED BY JAW
	WOOD BEARING WALLS WITH HARDIE SIDING WOOD ROOF TRUSS FRAMING EIPS/BATTEN/METAL/HARDIE SIDING EXTERIOR FINISHES	DATE ISSUED 07/19/2024
	SITE ID 042-3548	SITE ADDRESS 13620 E US 290 HWY WB, MANOR TEXAS
	JAWA 24-0107	
	LIGHTING CONTROLS	



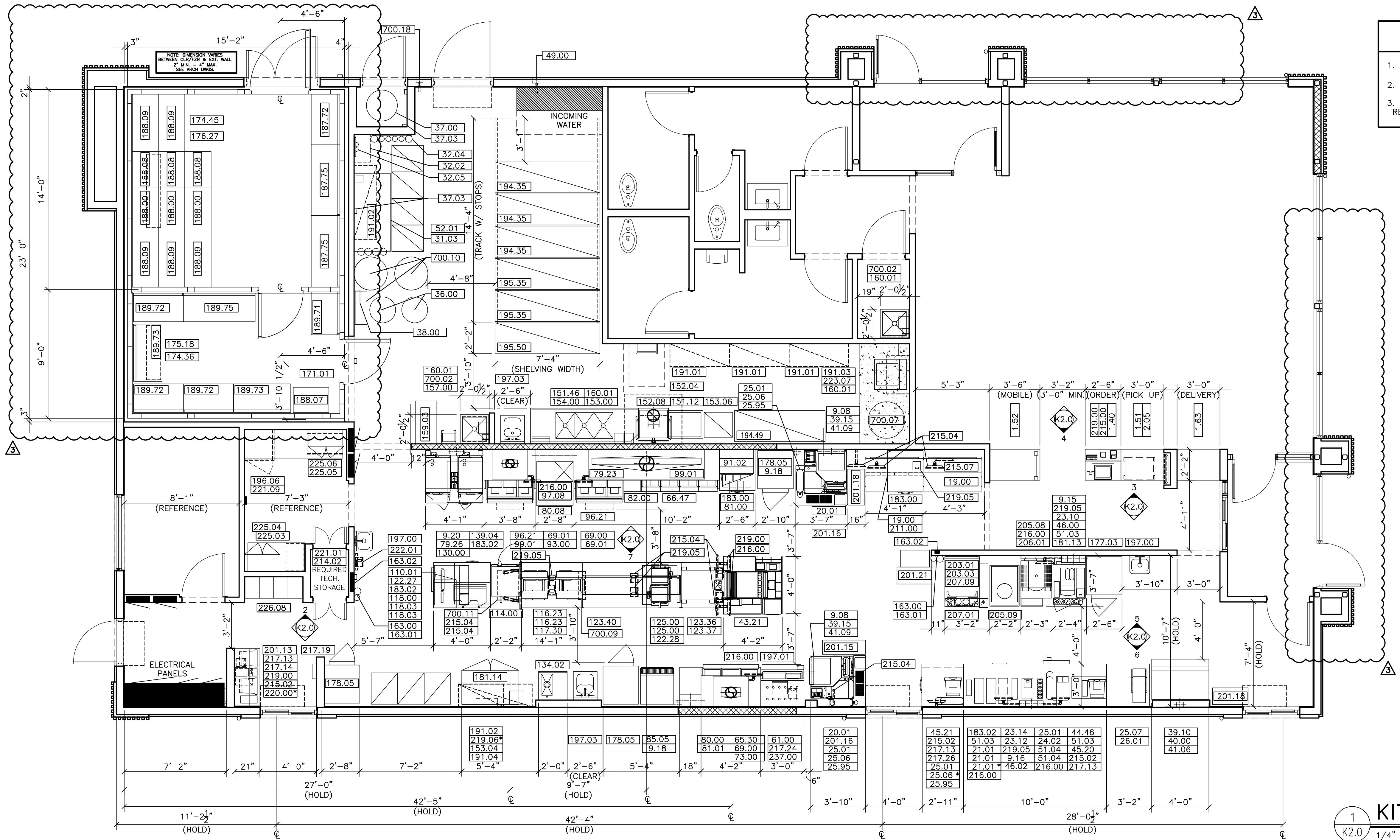


KITCHEN COVER SHEET

KEYED NOTES

K1 CUSTOMER KIOSK & DECOR LAYOUT FOR
REFERENCE ONLY. VERIFY KIOSK PLACEMENT PER
USRD APPROVED KIOSK REVIEW

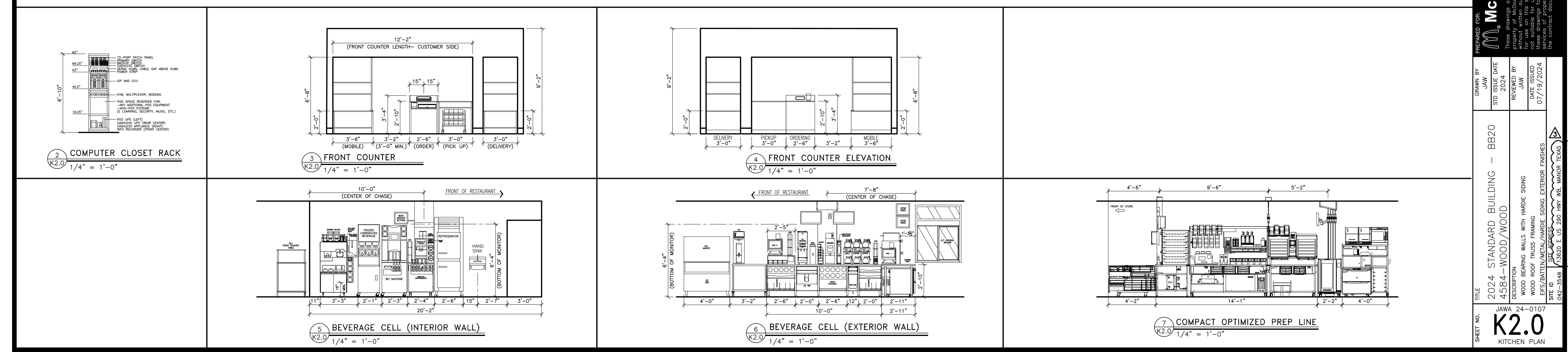
2024 STANDARD BUILDING – BB20		McDonald's USA, LLC	
4584 – WOOD/WOOD		 JAW <small>ARCHITECTS</small> <small>INC.</small>	
<p>DESCRIPTION</p> <p>WOOD BEARING WALLS WITH HARDIE SIDING</p> <p>WOOD ROOF TRUSS FRAMING</p> <p>EIFS/BATTEN/METAL/HARDIE SIDING EXTERIOR FINISHES</p>		<p>STD ISSUE DATE</p> <p>2024</p>	<p>REVIEWED BY</p> <p>JAW</p>
<p>SITE ID</p> <p>042-3548</p>		<p>DATE ISSUED</p> <p>07/19/2024</p>	<p>REVIEWED BY</p> <p>JAW</p>
<p>SITE ADDRESS</p> <p>13620 E US 290 HWY WB, MANOR TEXAS</p>		<p>REV</p>	<p>DATE</p>
		<p>3</p>	<p>DESCRIPTION</p>
			<p>BY</p>
			<p>Phone: 817-705-3387</p> <p>Email: jeramy@jaw-arch.com</p>
			<p>Jeremy Williams, Architect</p>
			<p>JAW Architects, Inc.</p>
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			<p>© 1926 JEREMY WILLIAMS S SMA OF TEXAS REGISTERED ARCHITECT STATE</p>



KITCHEN EQUIPMENT PLAN

1
K2.0

1/4" = 1'-0"



EQUIPMENT SCHEDULE														EQUIPMENT SCHEDULE													
ITEM	O	QTY	DESCRIPTION	MANUFACTURER	MODEL #	UL	NSF	FURNISHED	GENERAL REMARKS	SPECIAL REQUIREMENTS	ITEM	O	QTY	DESCRIPTION	MANUFACTURER	MODEL #	UL	NSF	FURNISHED	GENERAL REMARKS	SPECIAL REQUIREMENTS						
1.40	1	1	SERVICE POD - 30"	DECOR	SEE PLAN	-	2	GC	-		183.02	3	1	REFRIGERATOR/FREEZER - 2 DRAWER BASE - 30" X 30" H	KES	18021304	SA4044	7	KES	-							
1.51	1	1	PICKUP POD - 36"	DECOR	SEE PLAN	-	2	GC	-		187.66	1	FREEZER SHELVING 18" x 42" x 74" H. - 4 TIER	ISS SHELVING	FSMS/FSMA741842E	-	2	KES	-								
1.52	1	1	PICKUP POD - 42"	DECOR	SEE PLAN	-	2	GC	-		187.72	1	FREEZER SHELVING 24" x 42" x 74" H. - 4 TIER	ISS SHELVING	FSMS/FSMA742442E	-	2	KES	-								
1.63	1	1	McDELIVERY PICKUP COUNTER	DECOR	SEE PLAN	-	2	GC	-		187.75	2	FREEZER SHELVING 24" x 60" x 74" H. - 4 TIER	ISS SHELVING	FSMS/FSMA742460E	-	2	KES	-								
2.05	1	1	UNDER COUNTER CART - 24" W x 18" D FRONT COUNTER	INTERMETRO	UC18-DMS	-	2	KES	-		188.00	3	DUNNAGE RACK 22" x 36"	INTERMETRO	HP2236PD	-	2	KES	-								
9.08	2	1	UTILITY CHASE - ICE MAKER ON ABS VERSION	KES	5"x8"x23"	-	2	KES	CONCEALS WATER AND CONDENSING UNIT LINES		188.07	1	UNIVERSAL STAGING CART	ISS SHELVING	WST1384Y	-	2	KES	-								
9.15	1	1	UTILITY CHASE - FFDI INTERIOR WALL	KES	20"x5"x76"	-	2	KES	4 SECTION CHASE FOR BUYOUT RECEPTACLES, POS, CO2 AND WATER		188.08	3	DUNNAGE RACK 22" x 30"	INTERMETRO	HP2230PD	-	2	KES	-								
9.16	1	1	UTILITY CHASE - FFDI EXTERIOR WALL	KES	20"x5"x76"	-	2	KES	4 SECTION CHASE FOR BUYOUT RECEPTACLES, POS AND WATER		188.09	4	DUNNAGE RACK 22" x 48"	INTERMETRO	HP2248PD	-	2	KES	-								
9.18	2	1	UTILITY CHASE - WALL VERSION	KES	4"x4"x82"	-	2	KES	CHASE FOR BULK OIL LINES, MOUNT AT 2"-0"		189.65	1	COOLER SHELVING 18" x 36" x 74" H. - 4 TIER	ISS SHELVING	FSMS/FSMA741836E	-	2	KES	-								
9.20	1	1	UTILITY CHASE - COMBI CELL	KES	4"x8"x48"	-	2	KES	CHASE FOR BUYOUT RECEPTACLES AND WATER		189.72	3	COOLER SHELVING 24" x 42" x 74" H. - 4 TIER	ISS SHELVING	FSMS/FSMA742442E	-	2	KES	-								
19.00	2	1	DIGITAL ASSEMBLY CART - 48"	INTERMETRO	MCDDAC-48	-	2	KES	-		189.73	4	COOLER SHELVING 24" x 48" x 74" H. - 4 TIER	ISS SHELVING	FSMS/FSMA742448E	-	2	KES	-								
20.01	2	1	AUTOMATED BEVERAGE SYSTEM 2.0	IMI CORNELIUS	621058590LON	-	-	KES	INSTALLATION KIT INCLUDES STAINLESS STEEL CHASE, DATA LINE		189.75	1	COOLER SHELVING 24" x 48" x 74" H. - 4 TIER	ISS SHELVING	FSMS/FSMA742448E	-	2	KES	-								
21.01	3	1	COFFEE BREWER (THERMAL POTS)	BUNN-O-MATIC	AXIOM-DV-3	E32066	4	KES	W/ELECTRONIC CONTROLLER FOR CONVERSION TO LOW OR HIGH VOLTAGE		189.75	1	COOLER SHELVING 24" x 60" x 74" H. - 4 TIER	ISS SHELVING	FSMS/FSMA742460E	-	2	KES	-								
23.10	1	1	ESPRESSO BREWER	FRANKE	FM850	-	4	KES	-		191.01	3	VALANCE SHELVING - 18" x 48"	INTERMETRO	M1848C-MP	-	2	KES	OUNT AT 6'-8" AFF TO SHELF BOTTOM UNLESS OTHERWISE NOTED								
23.12	1	1	COFFEE CREAM DISPENSER	SURESHOT	AC110-PC-51	E217698	20	KES	-		191.02	2	VALANCE SHELVING - 18" x 60"	INTERMETRO	M1860C-MP	-	2	KES	OUNT AT 6'-8" AFF TO SHELF BOTTOM UNLESS OTHERWISE NOTED								
23.14	1	1	SUGAR/SWEETENER DISPENSER	SURESHOT	AC2-GP-1-G38	E217698	18	KES	-		191.03	1	VALANCE SHELVING - 18" x 30"	INTERMETRO	M1830C-MP	-	2	KES	OUNT AT 6'-0" AFF TO SHELF BOTTOM FOR ABOVE WASHING APPLICATION								
24.02	1	1	JUICE DISPENSER	BUNN-O-MATIC	JDF-2S	-	18	KES	-		191.04	1	VALANCE SHELVING - 18" x 36"	INTERMETRO	M1836C-MP	-	2	KES	OUNT AT 5'-0" AFF TO SHELF BOTTOM -W/ST STL LINER FOR SALAD EQUIP								
25.01	4	1	SUMLINE ICED BEVERAGE DISPENSER	BUNN-O-MATIC	TDO-N	E32066	4	KES	KES TO VERIFY EXACT QUANTITY PER MARKET PROVIDED WITH BREWER, INSTALLATION KIT AND TDO-N BOOSTER		194.35	3	DRY SHELVING 26" x 88" x 84" H. - 4-TIER MOBILE	DENSTOR	-	-	2	KES	-								
25.06	3	1	SUMLINE ICED BEVERAGE DISPENSER - SHORT	BUNN-O-MATIC	TDO-N LP	E32066	4	KES	-		194.49	1	DRY SHELVING 26" x 76" x 84" H. - 4-TIER FIXED	DENSTOR	-	-	2	KES	-								
25.07	1	1	INFUSION TEA BREWER - MIS	BUNN-O-MATIC	ITCB-DV	E32066	4	KES	-		195.35	2	DRY SHELVING 26" x 88" x 84" H. - 5-TIER	DENSTOR	-	-	2	KES	-								
25.95	3	1	SUMLINE ICED BEVERAGE DISPENSER - 2 TIER	KES	-	-	2	KES	-		195.50	1	DRY SHELVING 26" x 88" x 84" H. - 5-TIER	DENSTOR	-	-	2	KES	-								
26.01	1	1	TEA BREWER TABLE - 36"x36"	ISS SHELVING	WST1758C	-	2	KES	-		196.06	1	SAFE - STANDARD BLDG. - LEFT HINGE	NKL	BSD4125GXLL-MC	-	-	OWNER	-								
31.03	1	1	SODA SYSTEM PACKAGE B.I.B.(RECIRCULATING - 3 TOWERS) - REMOTE	50MR04	SA4632	18	KES	-		197.00	2	STAINLESS STEEL HAND SINK	ADVANCE TABCO	7-PS-51	-	2	GC	REFER TO PLUMB. DWGS. FOR DETAILS, SOAP & TOWEL DISP. BY OTHERS	PROVIDE SIDE SPLASHES (7-PS-11) WHEN REQUIRED BY LOCAL CODE								
32.02	1	1	REVERSE OSMOSIS WATER FILTRATION SYSTEM	EVERPURE	MRS-600HE	-	-	KES	FOR COFFEE MAKER, ESPRESSO MACHINE, AND RAPID BUN STEAMER		197.01	1	HAND WASH TIMER	NATIONAL CONTROLS	TMD-T1715-120	E53595	-	KES	-								
32.04	1	1	WATER FILTRATION SYSTEM	EVERPURE	EV9337-26	-	-	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							
32.05	1	1	WATER FILTRATION SYSTEM	EVERPURE	EV9272-24	-	-	KES	FOR COMBI OVENS AND STAGING CABINET		201.13	1	DRIVE-THRU CASH STAND - 21" D x 48" W	INTERMETRO	DT48-B	-	2	KES	SOLID WORK TOP, WIRE SHELVES								
36.00	2	1	BULK COKE	CHART INDUSTRIES	10667511	-	18	MANUFACTURER	SYRUP LINES BY CHART INDUSTRIES		201.15	1	READY NEXT DRIVE-THRU ASSEMBLY CART - 12" D x 36" W	INTERMETRO	DTPC-36	-	2	KES	-								
37.00	1	1	BULK CO2 - 750 LB.	CHART INDUSTRIES	CARBO-MAX 750	-	-	MANUFACTURER	-		201.16	2	DRIVE-THRU ABS CART	KES	-	-	2	KES	ABS DRINK STAGING CART WITH TROUGH								
37.03	2	1	C02 SAFETY SYSTEM	SEE RMKS	-	-	-	KES	SEE MECHANICAL DRAWINGS	INCLUDES DETECTOR AND (4) AV ALARMS	201.18	1	CBB STAGING CART	INTERMETRO	MCD-CBB	-	2	KES	-								
38.00	1	1	CLEAN IN PLACE PANEL	CHART INDUSTRIES	10667431	-	18	MANUFACTURER	SEE EXTERIOR ELEVATIONS FOR MOUNTING HEIGHT. INSTALLED BY GC		201.21	1	BLZ FRONT COUNTER TABLE - 30" D x 14" W	INTERMETRO	MCD1430-BLZM	-	2	KES	W/ CASTERS AND OVERSHELF								
39.10	1	1	ICE MACHINE - 1400 LB.	MANITOWOC	IYT1500N3 / D970	SA4027	12	KES	USE HEADMASTER KIT K00221		203.01	1	HEAT TREAT COMBINATION SHAKE/SUNDAE MACHINE	CARPIGNANI	K3	SA4203	6	KES	SUPPLIED WITH CONE DISPENSER AND 7'-6" LONG CORD								
39.15	2	1	ICE MACHINE - 1000 LB.	MANITOWOC	IBT1020C-161	SA4027	12	KES	-		203.03	1	CUP/ CONE DISPENSER	KES	-	-	2	KES	-								
40.00	1	1	ICE MACHINE CHASE	KES	4"x36"x48"	-	2	KES	CONDENSES WATER AND CONDENSING UNIT LINES		205.08	1	BIG MACHINE	MULTIPLEX	MA-8-2	SA12070	6	KES	-								
41.05	1	1	ICE MACHINE REMOTE CONDENSER - 1400 LB.	MANITOWOC	JCT-1500	E34027	12	KES	-		205.09	1	FROZEN BEVERAGE DISPENSER	IMI CORNELIUS	VIFER 3	SA12128	6	KES	-								
41.09	2	1	ICE MACHINE REMOTE CONDENSER - 1000 LB.	MANITOWOC	CVDT1020-263A	SA4027	12	KES	-		206.01	1	SPECIALTY BEVERAGE STANDOFF SHELF	KES	-	-	2	KES	MOUNT SHELF @ 2'-6" AFF								
43.21	1	1	OPTIMIZED OEM ASSEMBLY TABLE	KES	902001	E152097	2	KES	-		207.01	1	BLENDER - RAIL MOUNT - MCFLURRY	VITAMIX	056385	-	8	KES	SUPPLIED MOUNTING BRACKETS								
44.46	1	1	SMALL RISER SHELF - 18" TO 30"	FRANKE	18006010	-	2	KES	-		211.00	1	DESSERT BUTLER	KES	-	-	2	KES	-								
45.20	1	1	MODULAR BEVERAGE CABINET - 10'-0"	KES	-	-	2	KES	-		211.00	1	DELIVERY TABLET	APPLE	iPAD	-	-	DELIVERY PARTNER	QUANTITY DEPENDENT UPON NUMBER OF DELIVERY PARTNERS								