



## GENERAL NOTES

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

## ABBREVIATIONS

### GENERAL ABBREVIATIONS

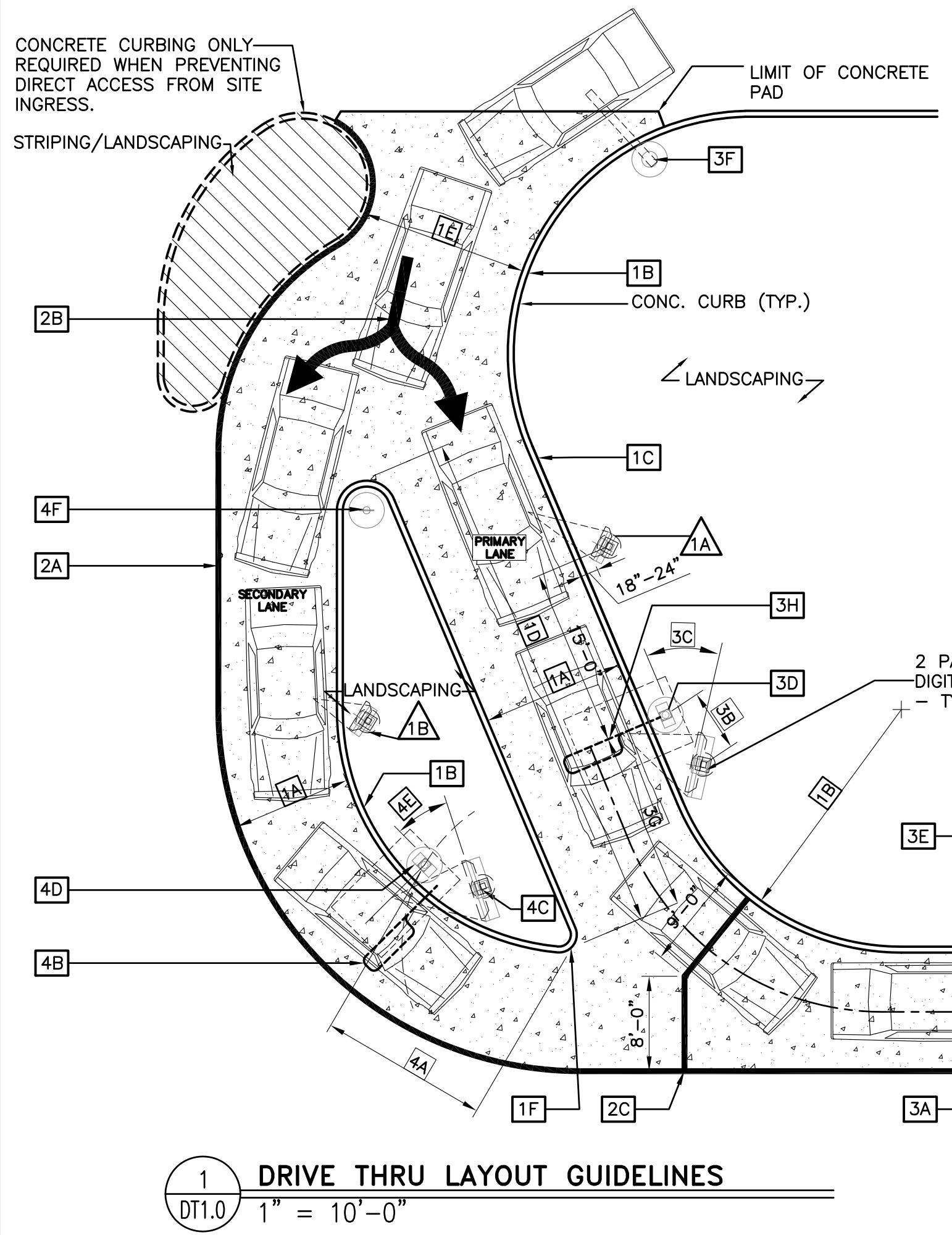
A	ANNEALED	INSUL	INSULATION
AC	AIR CONDITIONING	MAX	MATERIAL
ACT	ACOUSTIC CEILING TILE	MECH	MECHANICAL
AFF	ABOVE FINISH FLOOR	MFR	MANUFACTURER
AHU	AIR HANDLING UNIT	MIN	MINIMUM
AL	ALUMINUM	MO	MASONRY OPENING
ASPH	ASPHALT	MR	MOISTURE RESISTANT
CJ	CONTROL JOINT	MTL	METAL
CLNG	CEILING	NA	NOT APPLICABLE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

### McDONALD'S ABBREVIATIONS

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

SHEET NO.		TITLE		DRAWN BY		PREPARED BY:		DRAWN FOR:	
015-0071.00.0		2019 STANDARD BUILDING - BB20 459-F10-WOOD/WOOD		DIA STD ISSUE DATE 2019_11		McDonald's USA, LLC		12400 ARCHITECTURE & PLANNING BURNSVILLE, MN 55337 EMAIL: DATA@REPRISEDI.SIGN PHONE: (952) 252-4042 FAX: (952) 252-4043	
DESCRIPTION		DESCRIPTION		REVIEWED BY		REVIEWED BY		REVIEWED BY	
WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI WOOD ROOF TRUSS FRAMING FIBER CEMENT PANEL/BATTEN/APOLIC PANEL/BRICK EXT. FINISH		KOD DATE ISSUED 01/23/20		KO DATE ISSUED 01/23/20		KO DATE ISSUED 01/23/20		KO DATE ISSUED 01/23/20	
SITE ID 015-0071		SITE ADDRESS 605 SOUTH 7TH STREET, KANSAS CITY, KS		SIGNATURE Signature Architect, Inc. DIA Date 01/23/20		SIGNATURE Signature Architect, Inc. DIA Date 01/23/20		SIGNATURE Signature Architect, Inc. DIA Date 01/23/20	
REV #		DATE		REV #		DATE		REV #	
GN1.0		GENERAL NOTES							

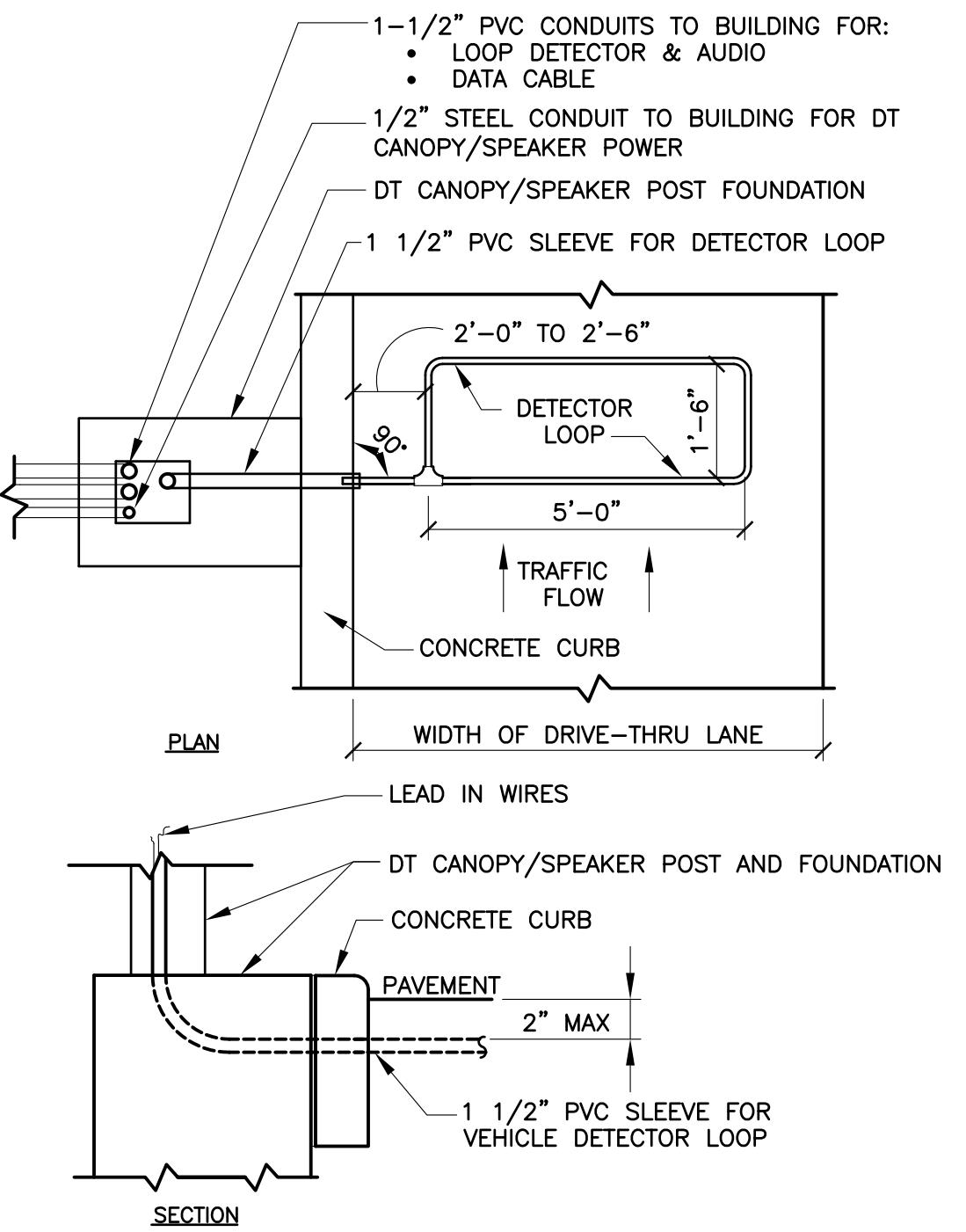
THE LAYOUT OF THE DRIVE-THRU LANES SHOWN IN THIS DETAIL ILLUSTRATES DRIVE-THRU DESIGN PRINCIPLES.



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

#### 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

#### SIDE BY SIDE DRIVE-THRU STANDARD 1.0

- SIDE BY SIDE DRIVE-THRU STANDARD 1.0 CURBING DETAILS:**
  - 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".
  - THE MIN. RADIUS FOR ALL INSIDE/DRIVER'S SIDE DRIVE-THRU CURBING IS 20'-0".
  - PRIMARY LANE CURBING SHOULD BE AS STRAIGHT AS POSSIBLE. (LESS CURVING, THE BETTER).
  - 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.
  - ENTRANCE LANE ENTERING THE SIDE BY SIDE DRIVE-THRU IS TO BE 14'-0" MIN.
  - THE RADIUS FOR THE ISLAND TIP SHALL BE 1'-6".
- SIDE BY SIDE DRIVE-THRU STANDARD 1.0 PAVEMENT MARKINGS:**
  - 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.
  - DOUBLE-HEADED ARROW PAVEMENT MARKING. STANDARD STRIPING MARKINGS ARE 7"-0" SHAFT, 7"-0" ARROW STEM AND 3"-0" FOR THE ARROW HEAD. TIP OF ARROW HEAD TO BE LOCATED AT CENTER OF EACH LANE.
  - 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.
  - THE WORDS "THANK YOU" ARE TO BE PLACED 8" FROM THE EDGE OF THE YELLOW STRIPE TO THE BOTTOM OF THE WORD "YOU".
  - 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.
  - A CIRCLE DIRECTIONAL ARROW CENTERED ABOVE THE WORD "DRIVE THRU" USED TO INDICATE THE DRIVE THRU ENTRY POINT.

- SIDE BY SIDE DRIVE-THRU STANDARD 1.0 EQUIPMENT POSITIONING FOR PRIMARY LANE:**
  - 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.
  - 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.
  - 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.
  - AUGER "McDONALD'S ORDER HERE CANOPY" CANOPY FOUNDATION TIGHT AGAINST BACK OF CURB. SEE MANUFACTURER/LOCAL SPECIFICATIONS FOR DETAILS.
  - 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.
  - AUGER "McDONALD'S GATEWAY" SIGN FOUNDATION TIGHT AGAINST BACK OF CURB. SEE MANUFACTURER/LOCAL SPECIFICATIONS FOR DETAILS.
  - 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.
  - THE PRIMARY LANE DETECTOR LOOP SHOULD BE PERPENDICULAR TO THE CENTER OF THE PRIMARY DT CANOPY/SPEAKER.
- SIDE BY SIDE DRIVE-THRU STANDARD 1.0 EQUIPMENT POSITIONING FOR SECONDARY LANE:**
  - 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.
  - 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.
  - 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.
  - AUGER "McDONALD'S ORDER HERE" DT CANOPY/SPEAKER FOUNDATION TIGHT AGAINST BACK OF CURB. SEE MANUFACTURER/LOCAL SPECIFICATIONS FOR DETAILS.
  - 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.
  - "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.
- SIDE BY SIDE DRIVE-THRU STANDARD 1.0 DETECTOR LOOP:**
  - DETECTOR LOOPS SHALL BE LOCATED AT THE CENTER OF THE OPENING WINDOW AT THE CASH AND PRESENTER BOOTHS.

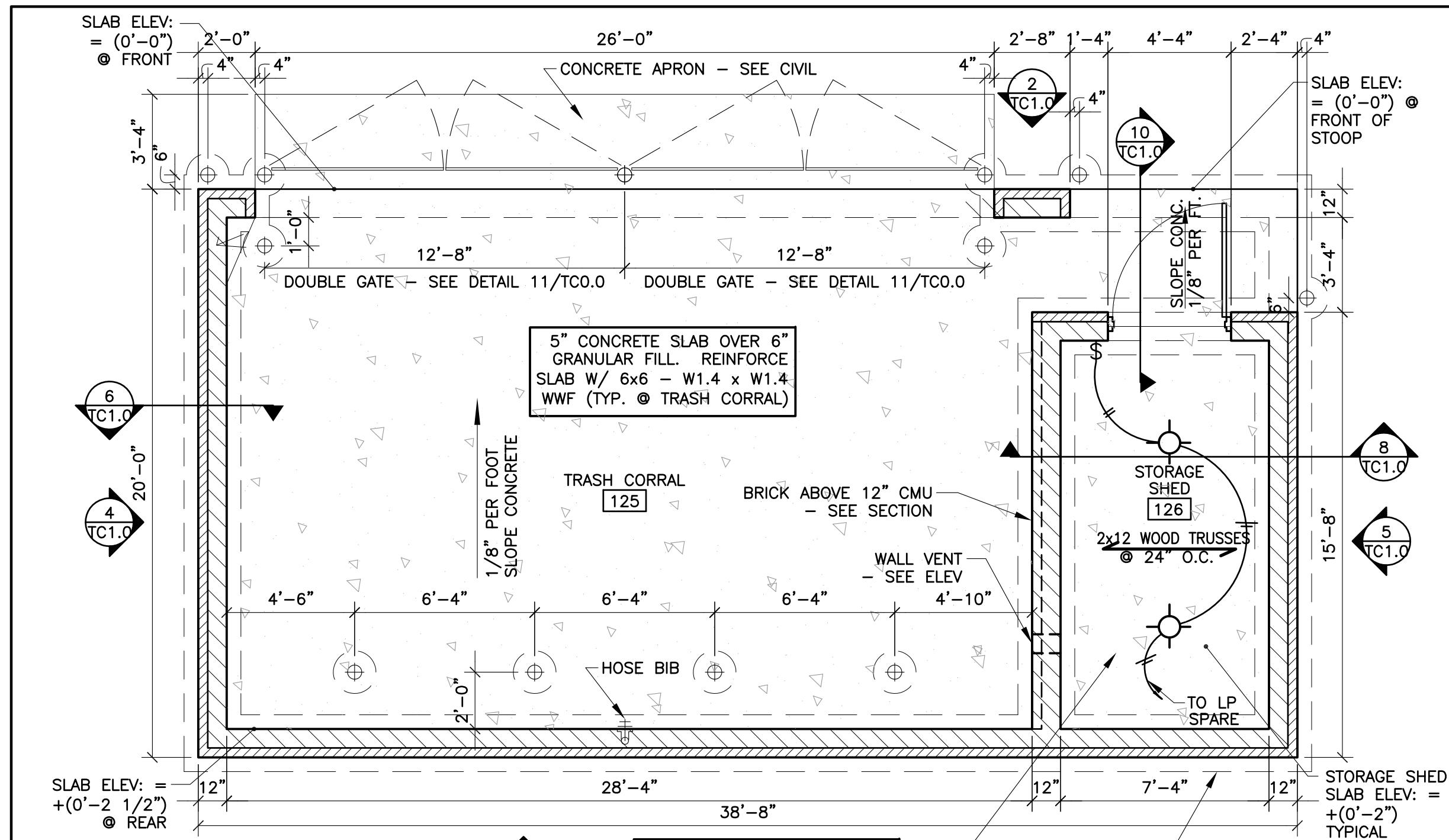
#### SIDE BY SIDE DRIVE-THRU STANDARD 1.0 FEATURES:

- SIDE BY SIDE DRIVE-THRU STANDARD 1.0 EQUIPMENT:**
  - PRE-BROWSE BOARD MUST BE 18"-24" FROM FACE OF CURB. THE DISTANCE 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.
  - PRE-BROWSE BOARD MUST BE MIN. 12" FROM FACE OF CURB. THE DISTANCE 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 OF THE PRE-BROWSE BOARD SHOULD MAXIMIZE VISIBILITY TO THE SECOND CAR FROM DT CANOPY/SPEAKER (PREFERRED 35°).

#### GENERAL NOTES

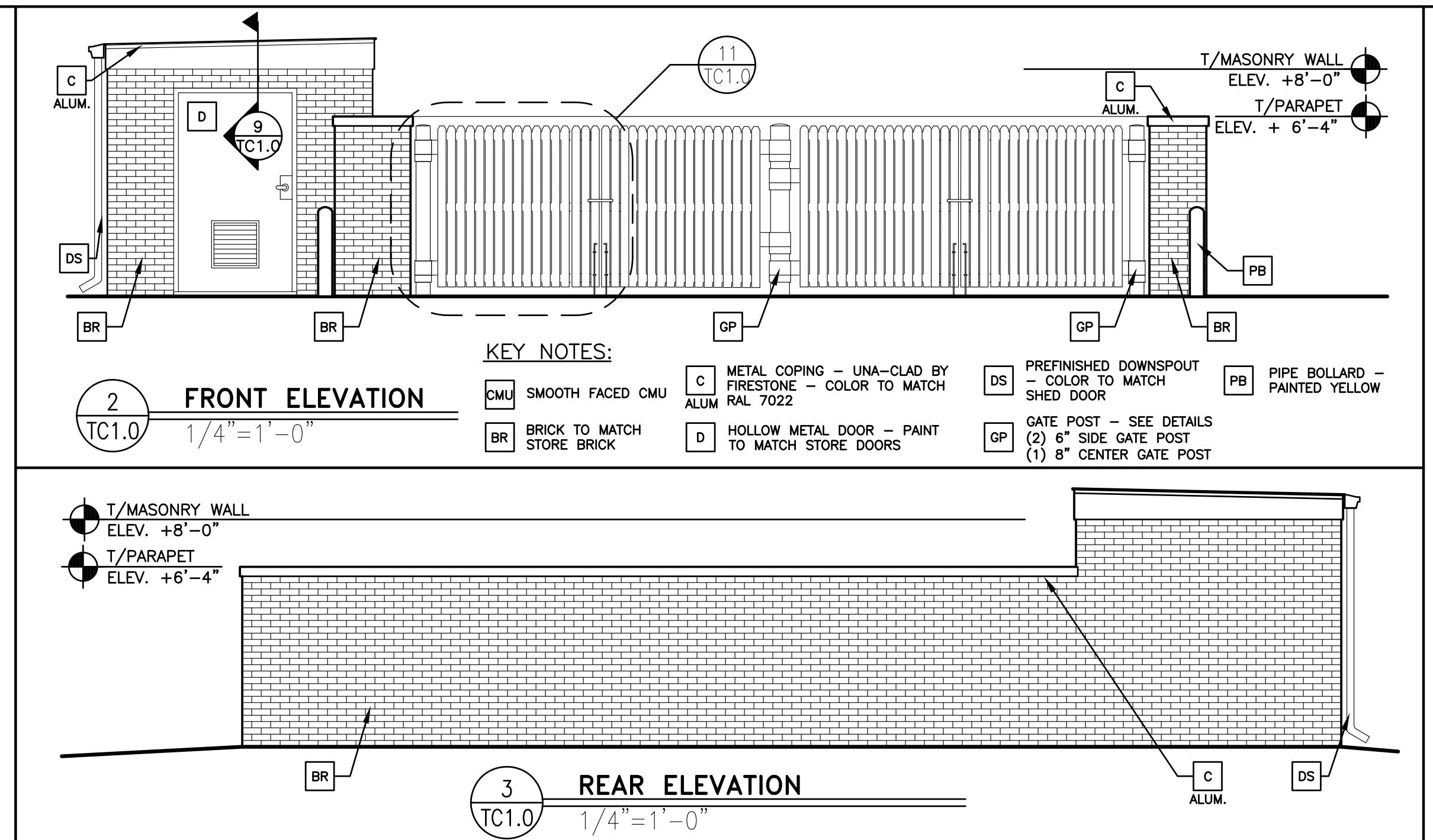
- DRIVE-THRU ELEMENTS:**  
DT CANOPY/SPEAKER DRIVE-THRU PYLON/CLEARANCE POLE AND BOLLARD SIGN SHALL BE CONSISTENT WITH THE STANDARD BUILDING DESIGN DRIVE-THRU ELEMENTS.  
OTHER DESIGNS MAY NOT BE USED.
- CONTRACTOR SHALL COORDINATE WITH APPLICABLE PLANS, McDONALD'S AREA CONSTRUCTION MANAGER, CONTENT 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.

PREPARED BY:		McDonald's USA, LLC
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DRAWN BY	STD ISSUE DATE	REVIEWED BY
	2019-11	RH
DESCRIPTION	DATE ISSUED	
2019 STANDARD BUILDING - BB20	11 15 2019	
4597-WOOD/WOOD		
WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & GI		
ELTS/BATTEN/STEEL PANEL/BRICK EXTERIOR FINISH		
SITE ID	SITE ADDRESS	
015-0071.000	605 South 7th St, Kansas City, KS	
015-0071.000		
DT1.0		
DRIVE-THRU DETAILS		



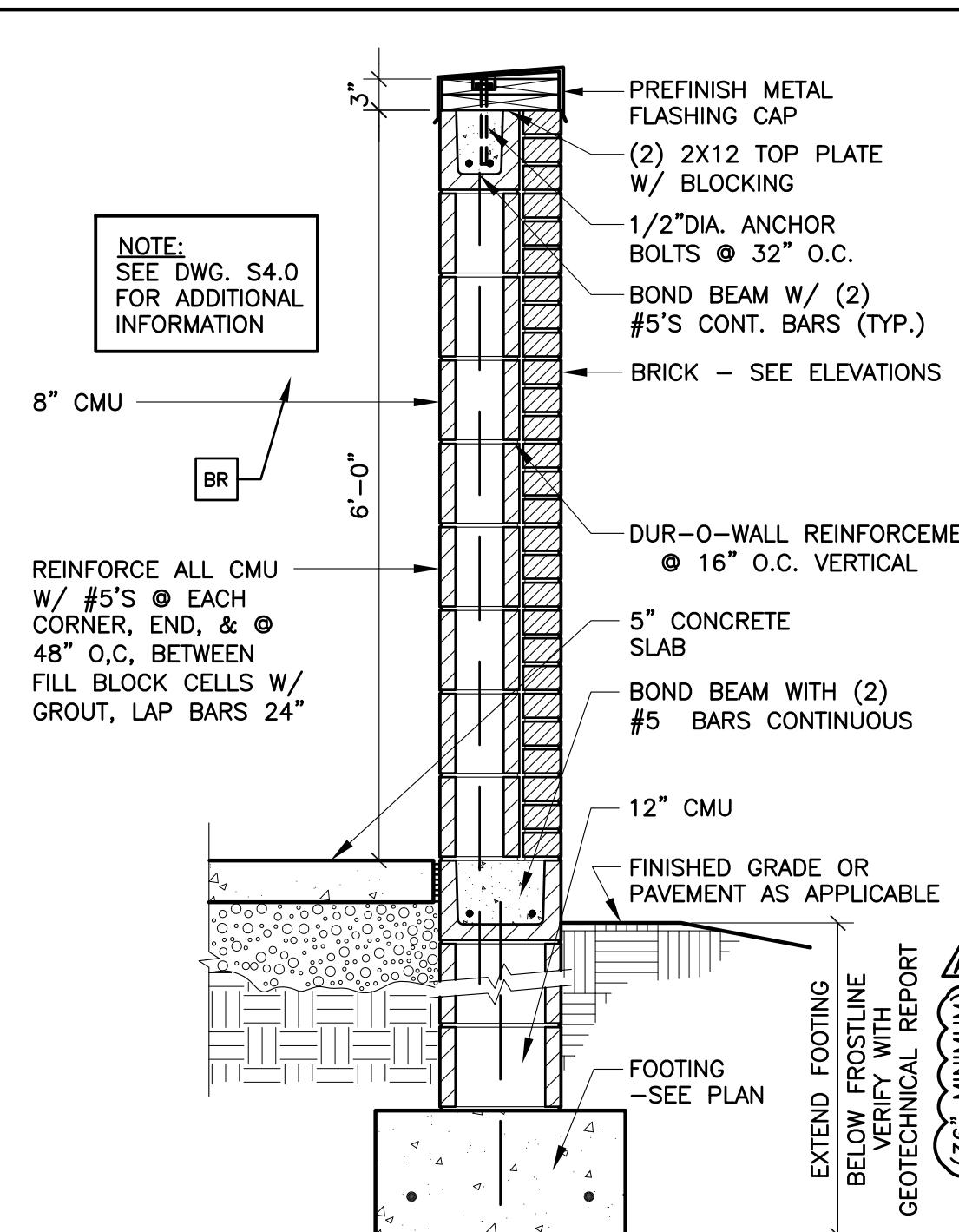
**TRASH CORRAL PLAN W/ SHED**

**NOTE:**  
1. HOLLOW METAL DOOR SHALL BE 4' 0" x 7' 0" x 1 3/4" WITH FRAME, THRESHOLD, CONTINUOUS SINGE, LEVER HANDLE AND STOREROOM LOCKSET.  
2. INCANDESCENT LIGHT FIXTURE SHALL BE FURNISHED, WIRE GUARD, 40 WATT LAMP, AND SURFACE MOUNT, PASS & SEMORE-#44 OR LIGHTING LTD #1742-2000 AWG

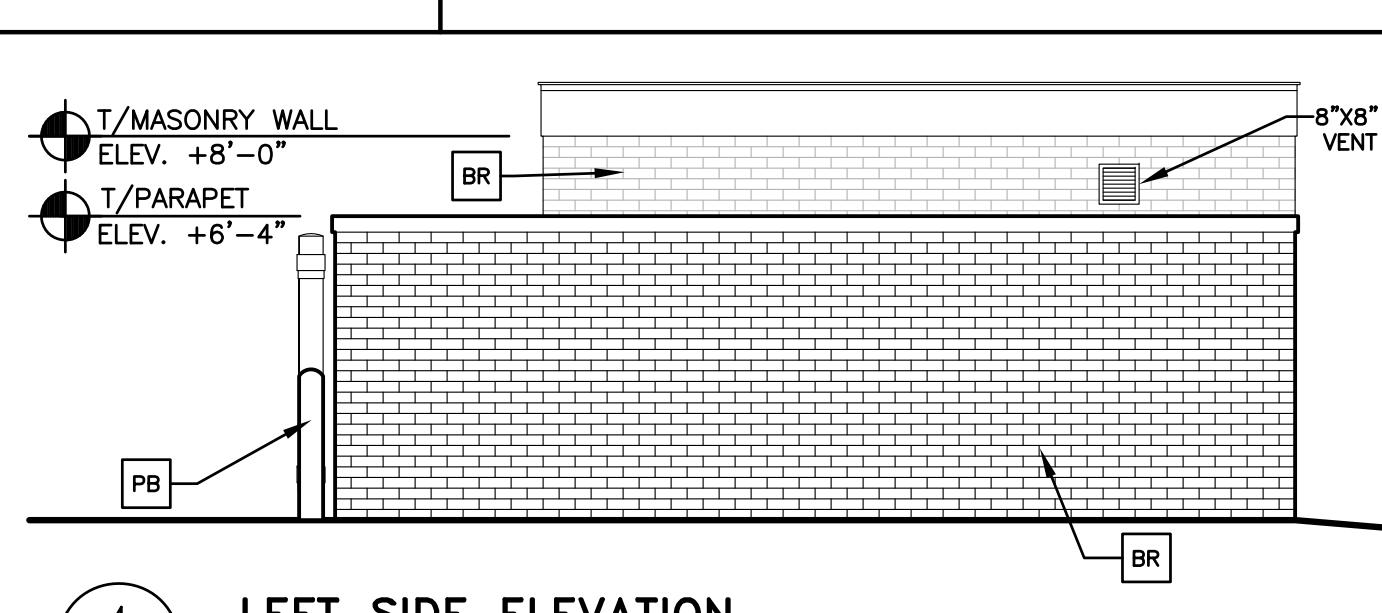


**FRONT ELEVATION**

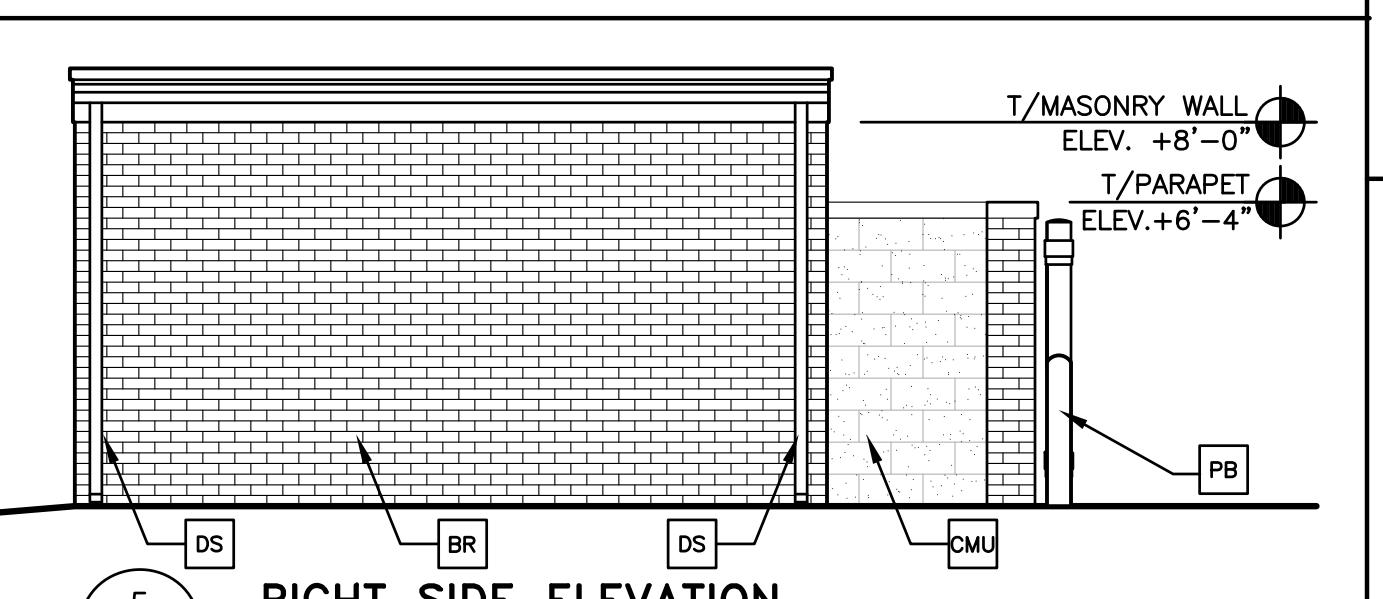
**REAR ELEVATION**



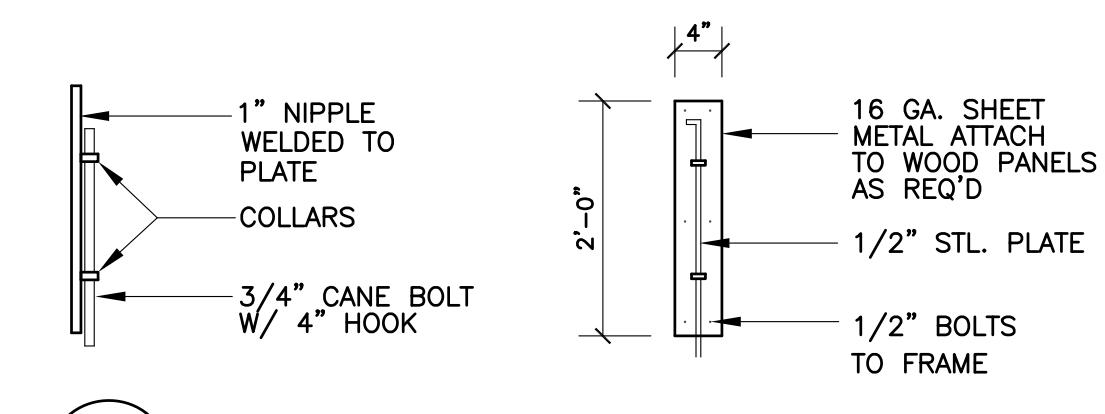
**TYPICAL WALL SECTION**



**LEFT SIDE ELEVATION**

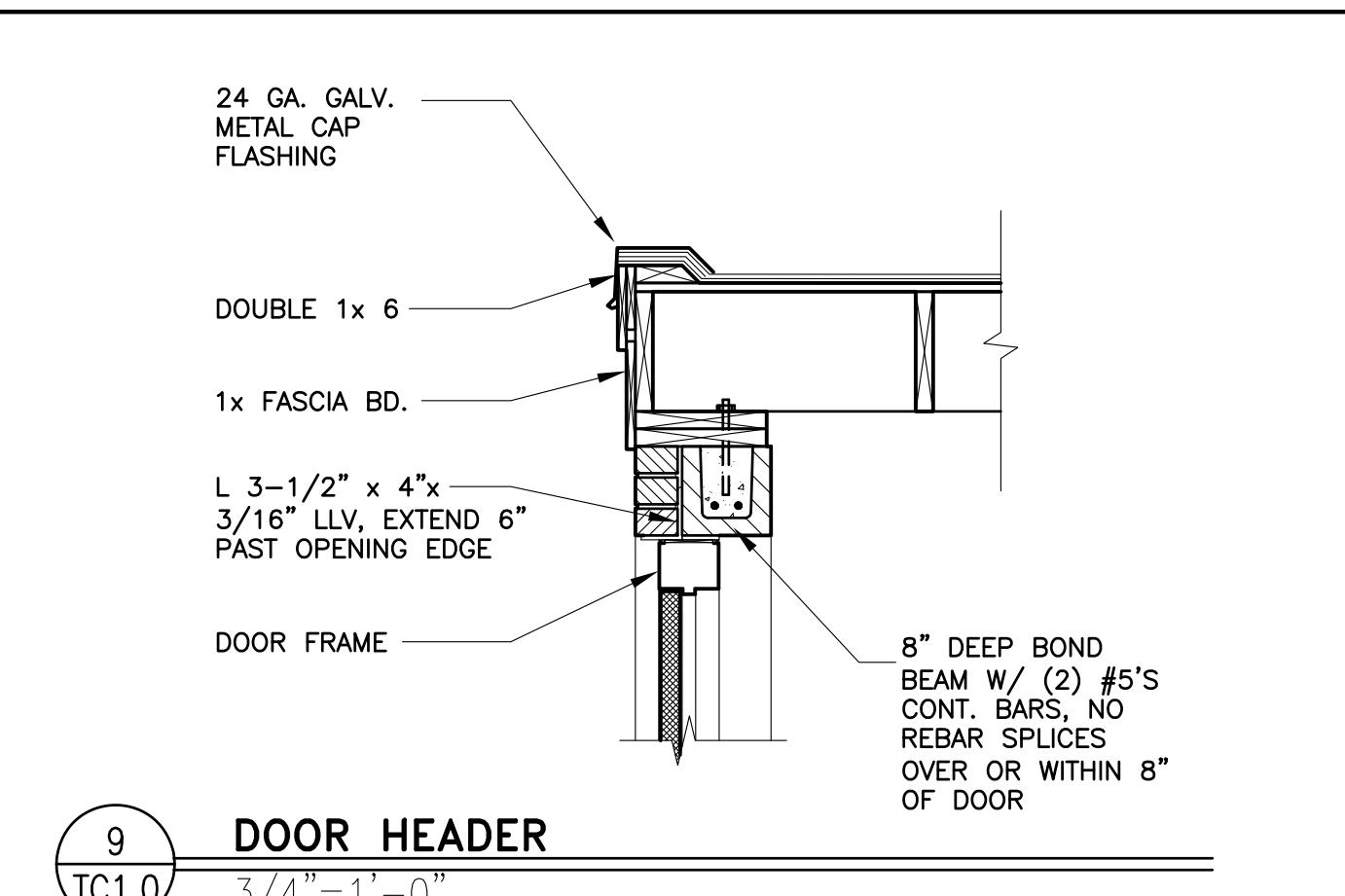
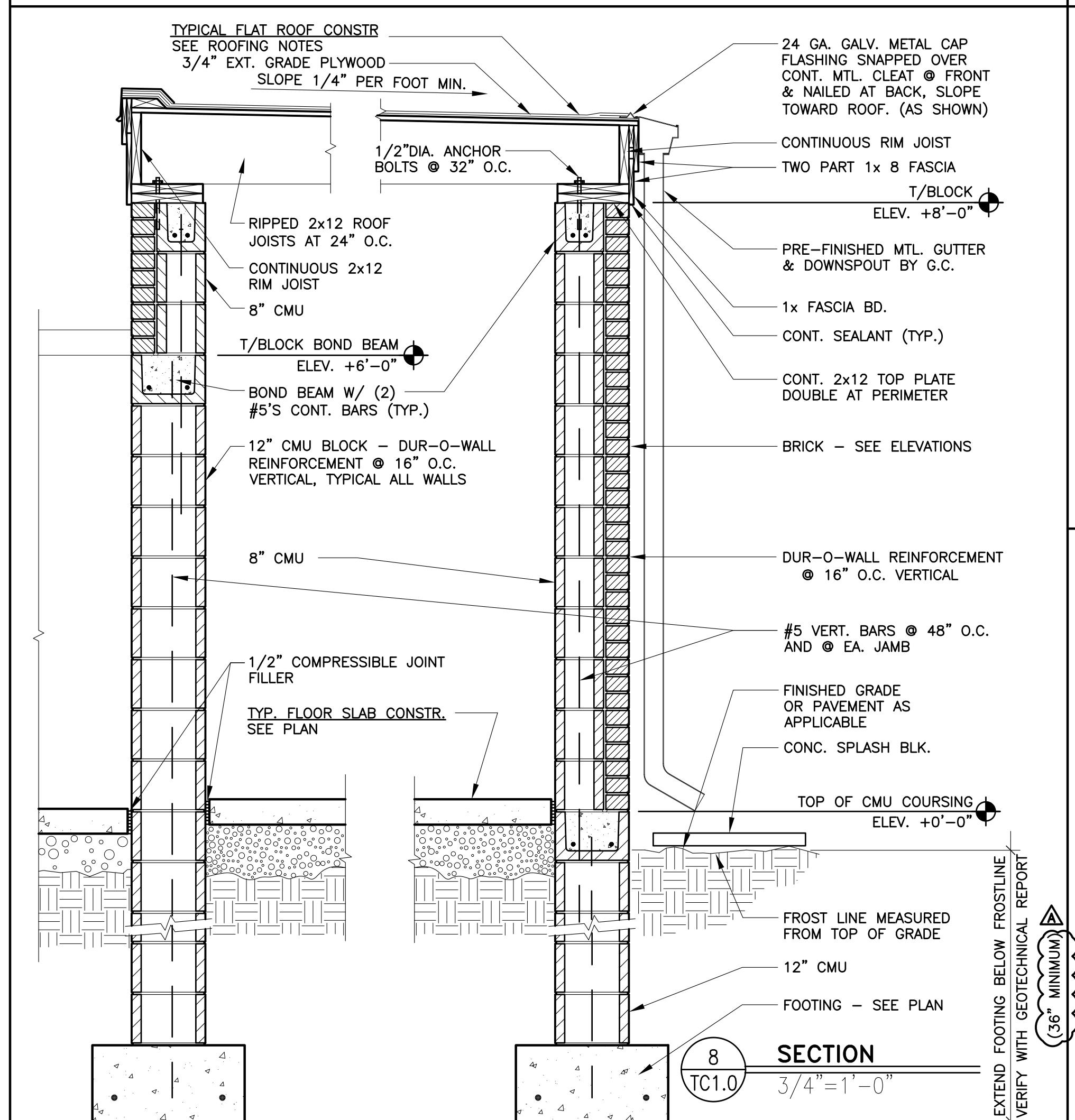


**RIGHT SIDE ELEVATION**

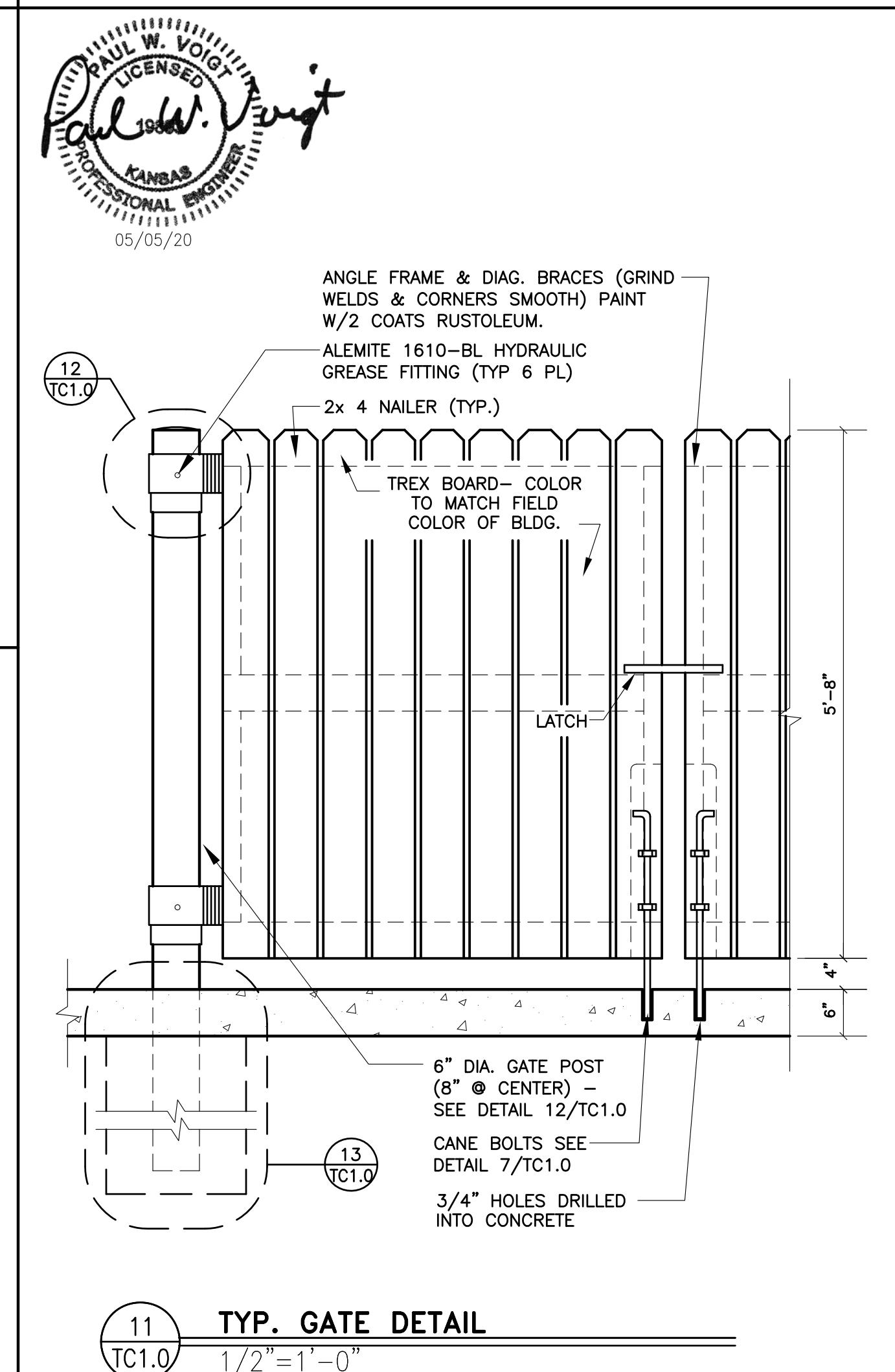


**BOLT DETAILS**

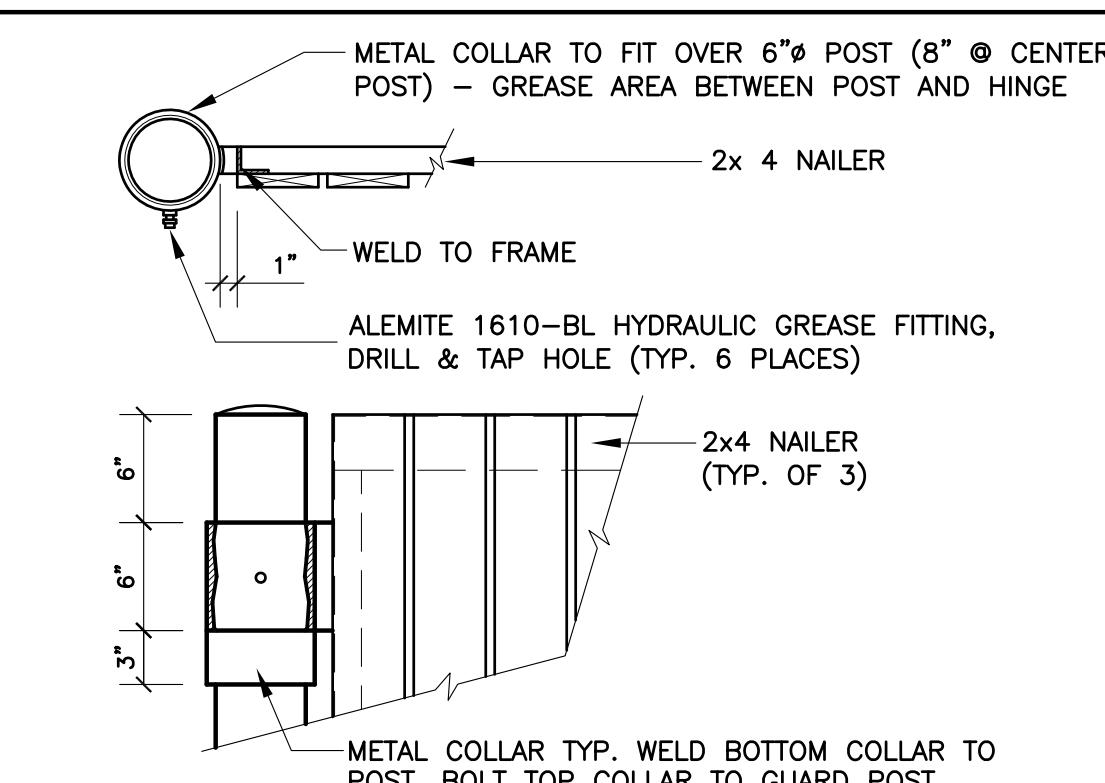
NOT TO SCALE



**DOOR HEADER**

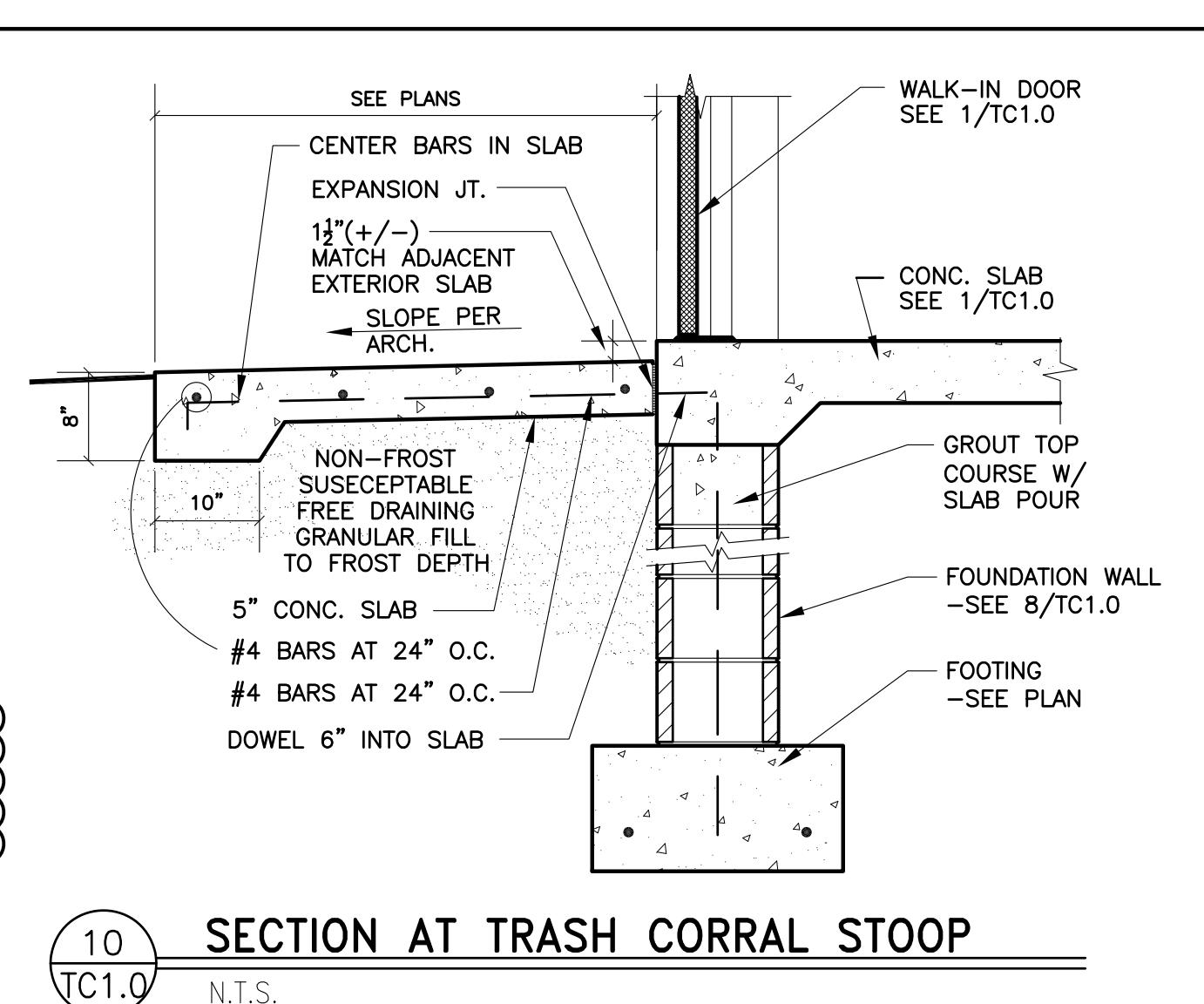


**TYP. GATE DETAIL**

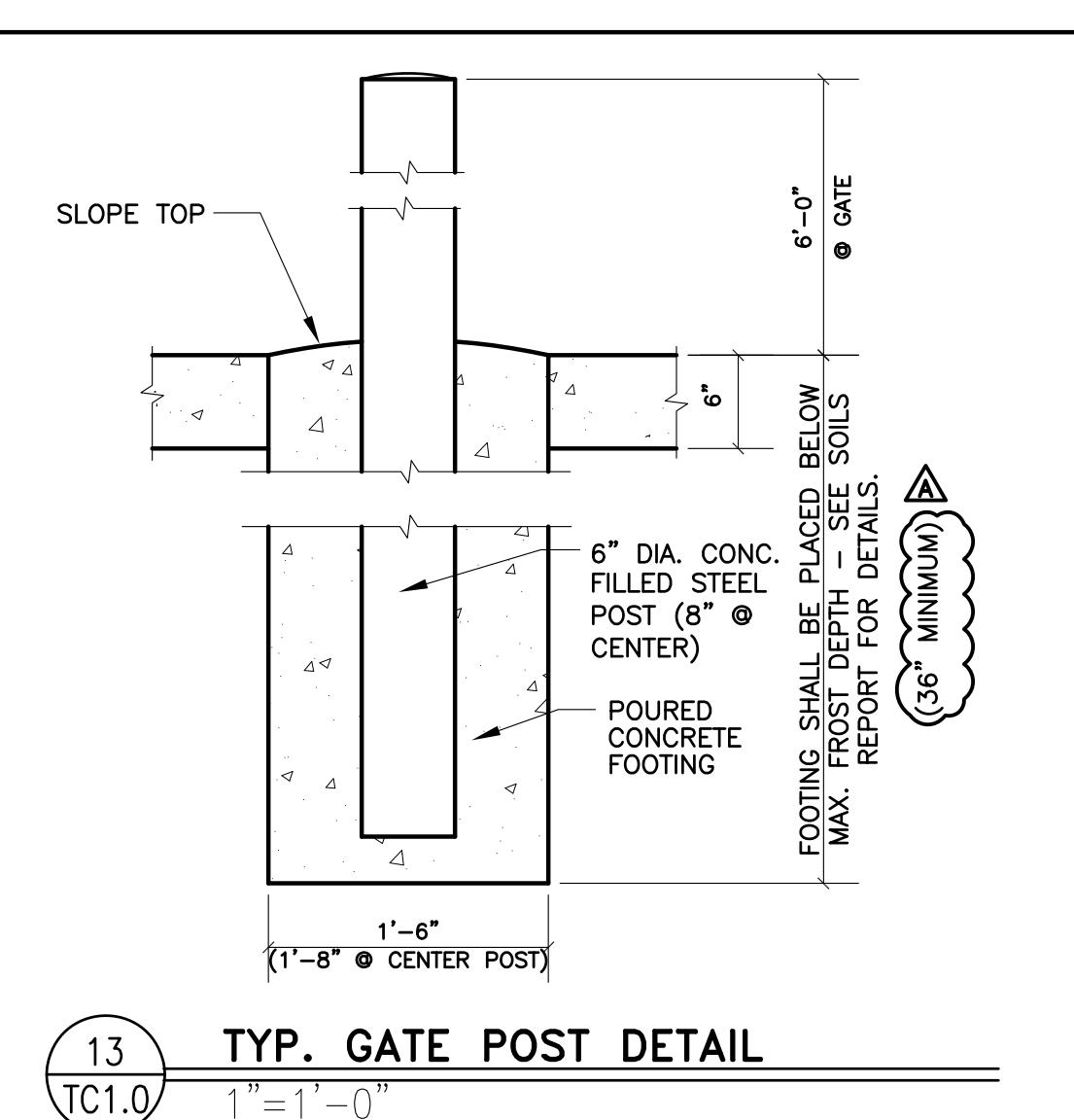


**HINGE DETAILS**

NOT TO SCALE



**SECTION AT TRASH CORRAL STOOP**



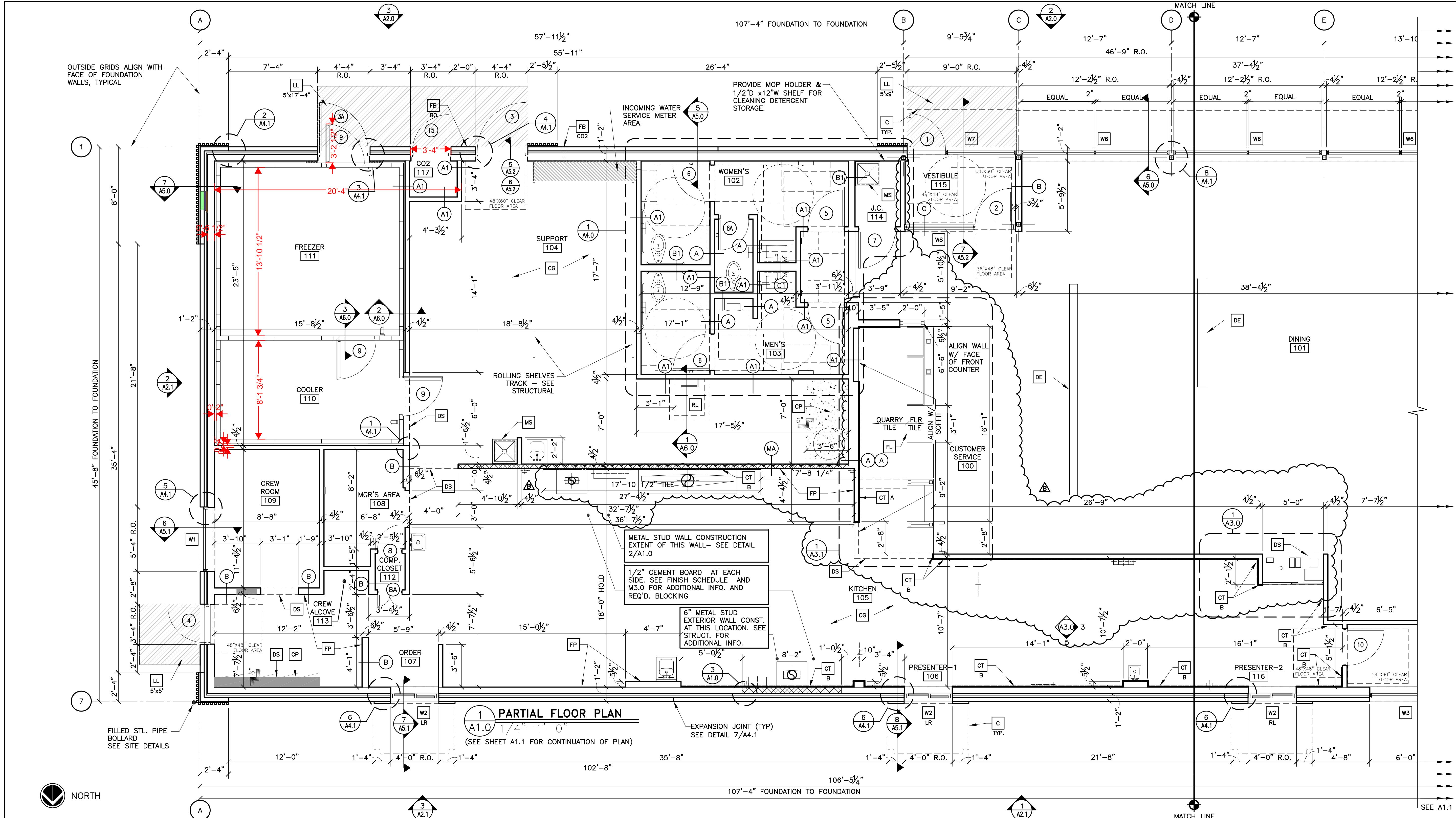
**TYP. GATE POST DETAIL**

PREPARED BY:  
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SHEET NO.	TITLE	DRAWN BY	DIA	STD ISSUE DATE	REVIEWED BY	KO	DATE ISSUED	SITE ADDRESS
015-0071.00.A	2019 STANDARD BUILDING - BB20	2019-11					01/23/20	605 SOUTH 7TH STREET, KANSAS CITY, KS
015-0071.00.A	459-F10-WOOD/WOOD							
	DESCRIPTION	WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI						
	WOOD ROOF TRUSS FRAMING							
	FIBER CEMENT PANEL/BATTEN/AUPOVIC PANEL/BRICK EXT. FINISH							
	SITE ID	015-0071						
	REGISTRATION NUMBER							

**TC1.0**  
TRASH CORRAL



**reprise**  
Architecture, Inc.  
DESIGN

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SEE A1.1

RD#19175

01/23/20

DATE ISSUED

01/23/20

DATE REVISED

01/13/20

DATE APPROVED

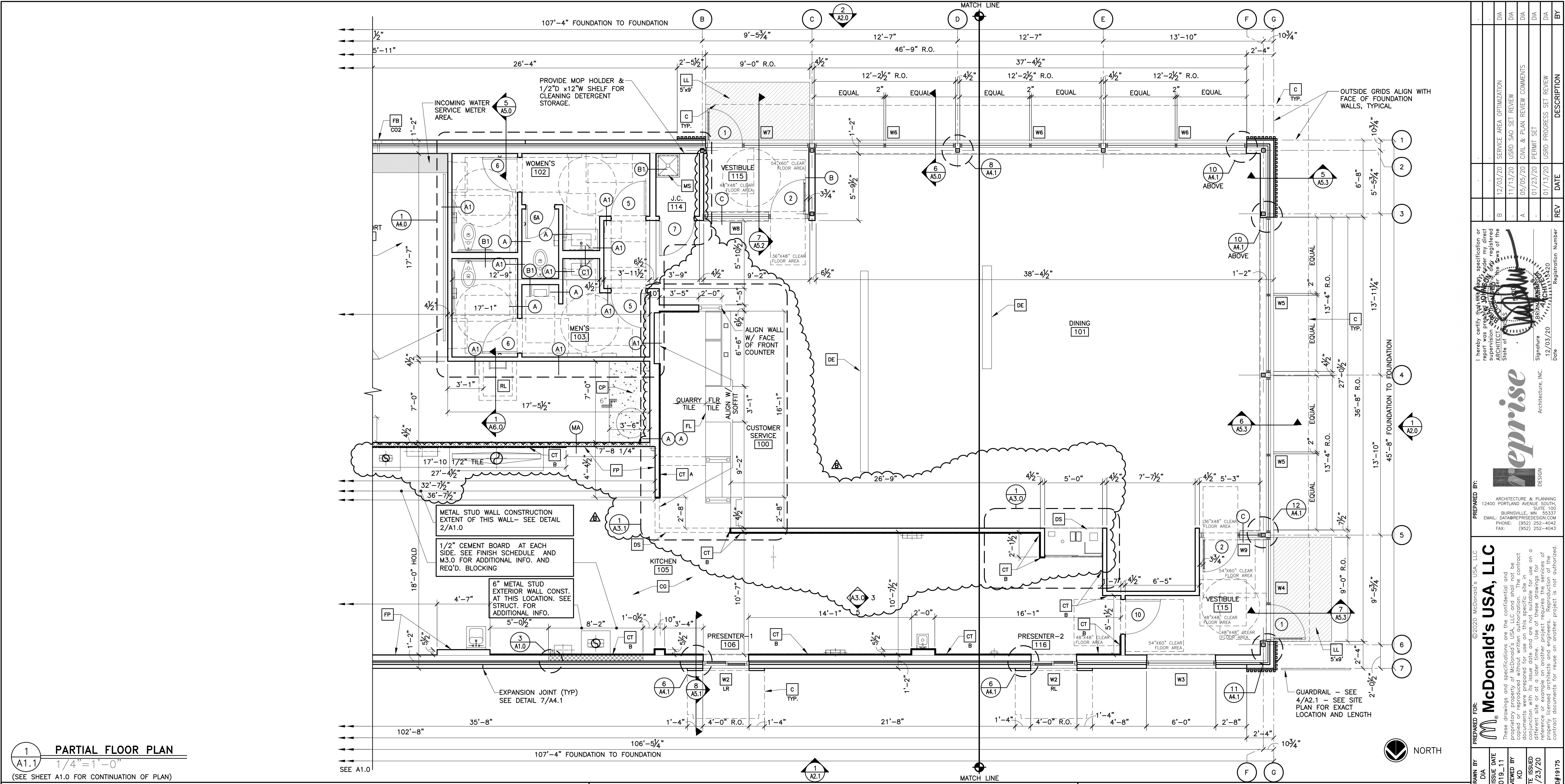
01/13/20

DATE REGISTERED

BY

12/03/20 SERVICE AREA OPTIMIZATION  
B 12/03/20 USD SDG SET REVIEW  
DIA  
11/15/20 USD SDG SET REVIEW  
CIVIL & PLAN REVIEW COMMENTS  
DIA  
05/05/20 PERMIT SET  
DIA  
01/23/20 PERMIT SET  
DIA  
01/13/20 USD PROGRESS SET REVIEW  
DIA  
Signature: *[Signature]*  
Registration Number: *[Registration Number]*  
Date: *[Date]*

DRAWN BY:	PREPARED BY: McDonald's USA, LLC	
DIA	12/03/2019-11	STD ISSUE DATE
REV'D BY:	KO	REVIEWED BY
DATE ISSUED:	01/23/20	DATE REV'D
SITE ID:	015-0071.00.B	SITE ADDRESS
015-0071.00.B	2019 STANDARD BUILDING - BB20	TITLE
WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI	WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI	DESCRIPTION
FIBER CEMENT PANEL/BATTEN/AUPOVIC PANEL/BRICK EXT. FINISH	FIBER CEMENT PANEL/BATTEN/AUPOVIC PANEL/BRICK EXT. FINISH	
015-0071.00.B	A1.0	FLOOR PLAN



**reprise**  
Architecture, INC.  
DESIGN

Signature  
J. Brian Abshire, AIA  
12/03/20  
Registration Number  
Date

11/15/20

12/03/20

CIVIL & PLAN REVIEW COMMENTS

01/23/20

PERMIT SET

01/13/20

USD PROGRESS SET REVIEW

BY

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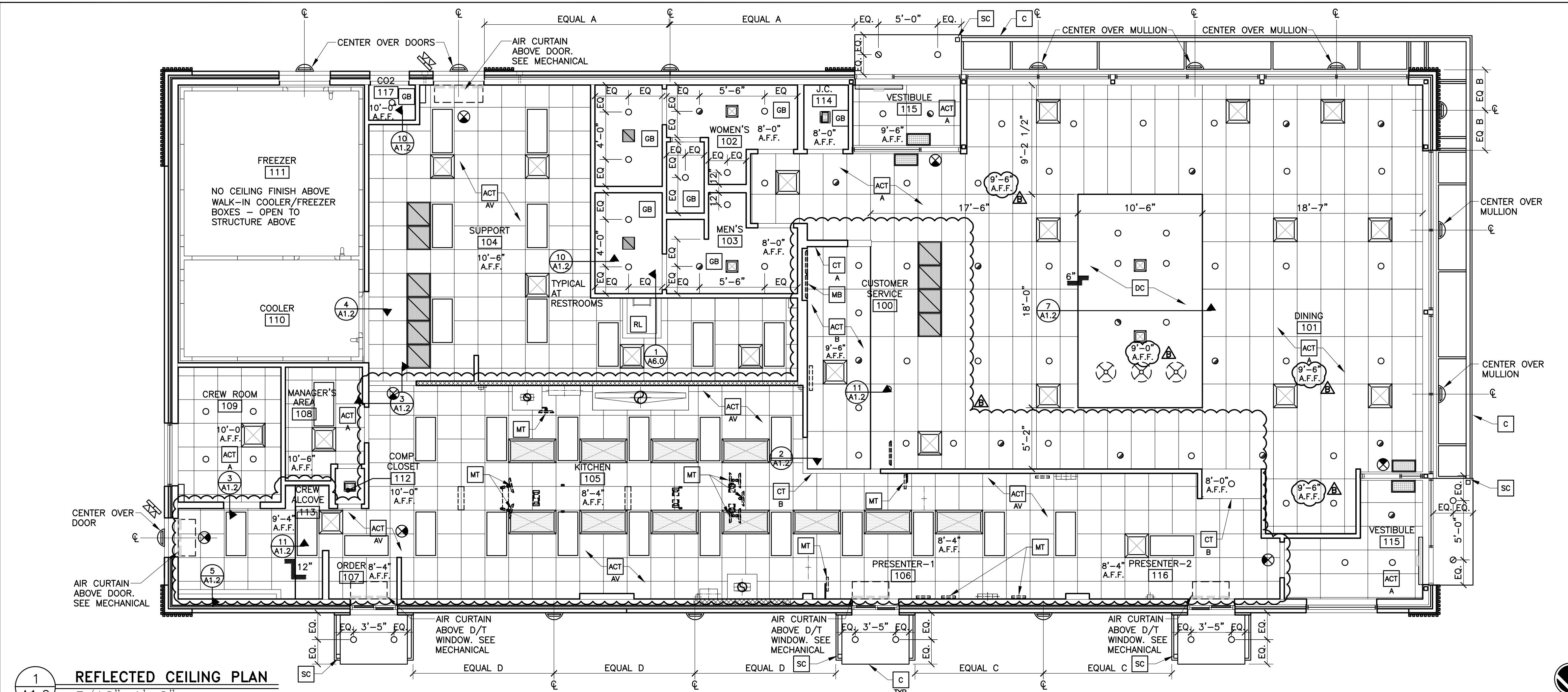
1/4"

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1/4"



REFLECTED CEILING PLAN

A1.2 3/16" = 1'-0"

KEY NOTES	
ACT A	ACOUSTICAL CEILING TILE - 24"x48". VERIFY FINISHES WITH DECOR COMPANY
ACT AV	ACOUSTICAL CEILING TILE: VINYL FACED USG 24"x24" CLEAN ROOM CLIMA-PLUS. UNPERFORATED. SMOOTH TEXTURE COLOR: WHITE GRID: USG 15/16" DX/DXL COLOR: WHITE
ACT B	ACOUSTICAL CEILING TILE: USG 24"x48" PREMIER HI-LITE CLIMAPLUS KAPOK PANELS. COLOR: FLAT BLACK 205 GRID: USG 15/16" DX/DXL COLOR: BLACK
C	ALUMINUM CANOPY WITH INTEGRAL GUTTER AND SCUPPER - SEE 4/A5.0 FOR NOTES - SEE ROOF PLAN FOR DIMENSIONS - SEE ELEVATION FOR COLOR AND FASCIA LOCATIONS
CT A	WALL TILE: CERAMIC TILE SIZE: 4"x12", PATTERN: STACK BOND GROUT: MAPEI ULTRACOLOR PLUS - JOINT TO BE $\frac{1}{8}$ " MAX SEE DECOR DRAWINGS FOR TILE AND GROUT COLOR SPEC.
CT B	WALL TILE: CERAMIC TILE SIZE: 4"x12", PATTERN: STACK BOND GROUT: MAPEI ULTRACOLOR PLUS - JOINT TO BE $\frac{1}{8}$ " MAX SEE DECOR DRAWINGS FOR TILE AND GROUT COLOR SPEC.
DC	SUSPENDED DECORATIVE CEILING TREATMENT - SEE DECOR DRAWINGS FOR ADDITIONAL INFORMATION
DS	DROPPED SOFFIT
DC-WH	BOTTOM TO ALIGN WITH GYP BD AT EXTERIOR WINDOW HEAD MAY BE REPLACED BY ELEMENT BY DECOR SUPPLIER - CONFIRM WITH AREA CONSTRUCTION MANAGER
GB	GYPSUM BOARD CEILING
MB	MENU BOARD WITH BEZELS BY OTHERS UNDER SEPARATE PERMIT - SEE ELEC PLANS
MT	CEILING MOUNTED MONITOR: A) VERIFY MONITOR LOCATIONS WITH MCDONALD'S PROJECT MANAGER PRIOR TO INSTALLATION. B) SEE DETAIL 6/A1.2 FOR INSTALLATION METHOD
RL	ROOF LADDER OPENING
SC	INTERGRAL GUTTER SCUPPER

#### GENERAL NOTES

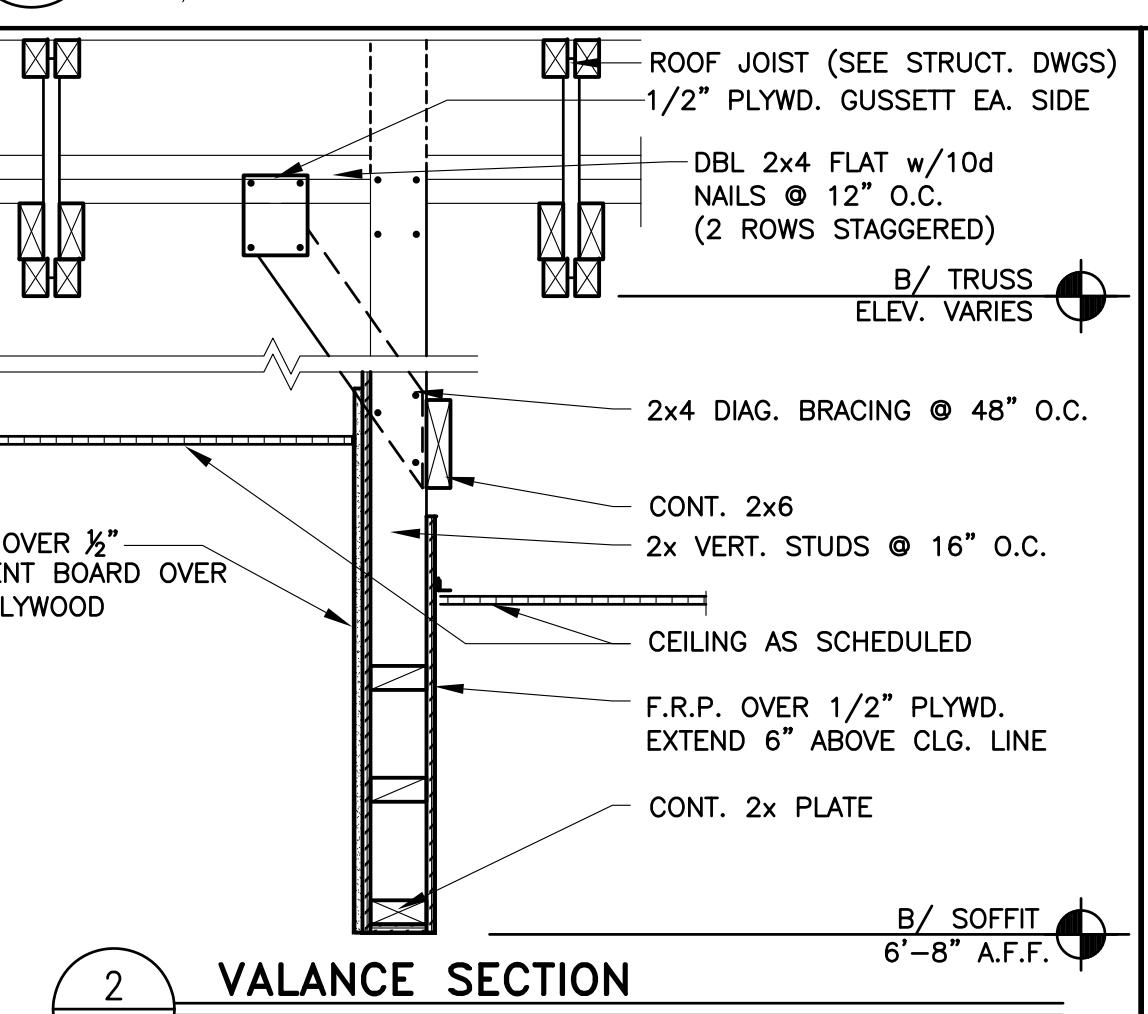
- SEE SHT A6.1 FOR CEILING FINISHES.
- SEE SHT A1.0 FOR MENU BOARD DROPPED SOFFIT LOCATION DIMENSIONS
- GENERAL CONTRACTOR SHALL COORDINATE HVAC DIFFUSER LOCATION WITH DECOR & MECHANICAL PLANS AND REPORT ANY DISCREPANCIES TO ARCHITECT.
- REFERENCE MECHANICAL AND ELECTRICAL DRAWINGS FOR DIFFUSER AND LIGHTING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

PREPARED BY:  
12400 ARCHITECTURE & PLANNING, SOUTH,  
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EMAIL: DATA@REPRISEDI.SN.COM  
PHONE: (952) 252-4042  
FAX: (952) 252-4943

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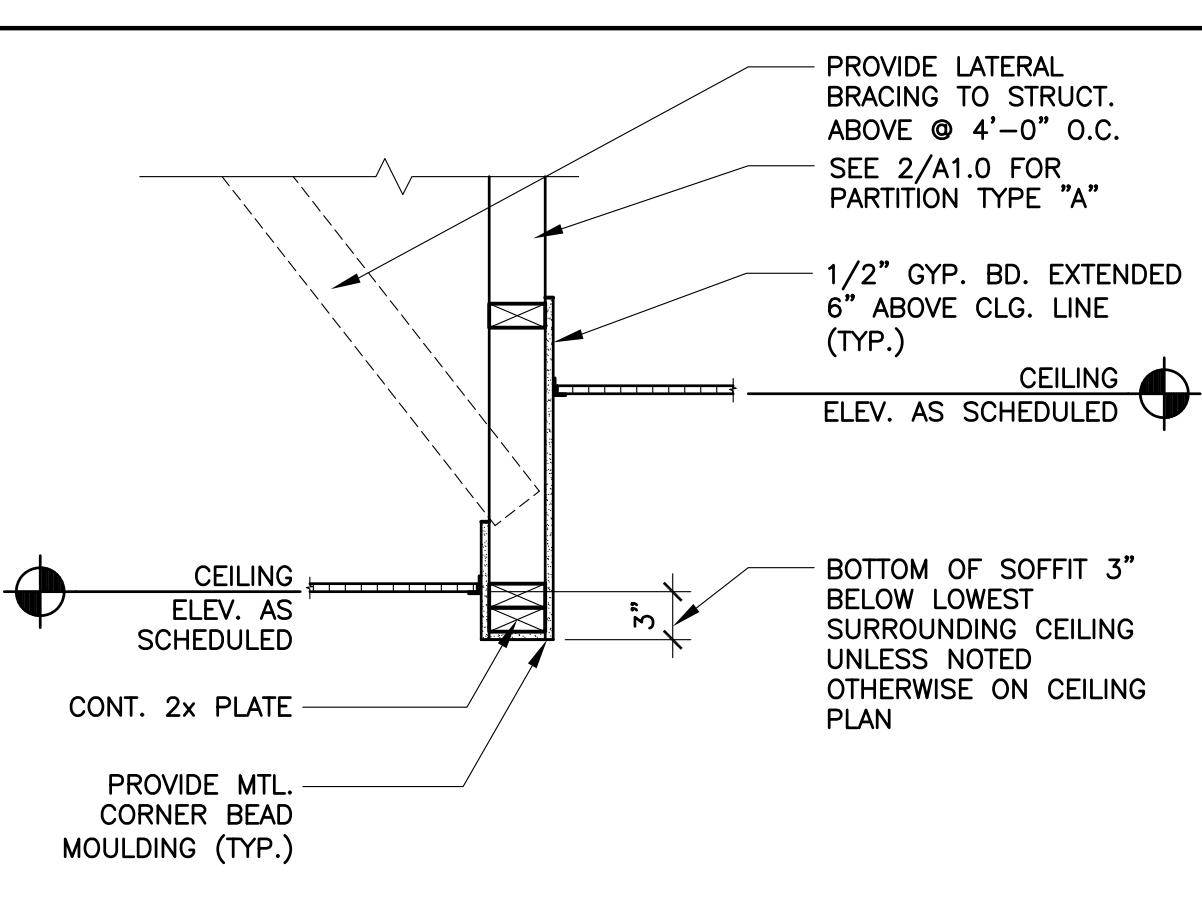
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RD#19175



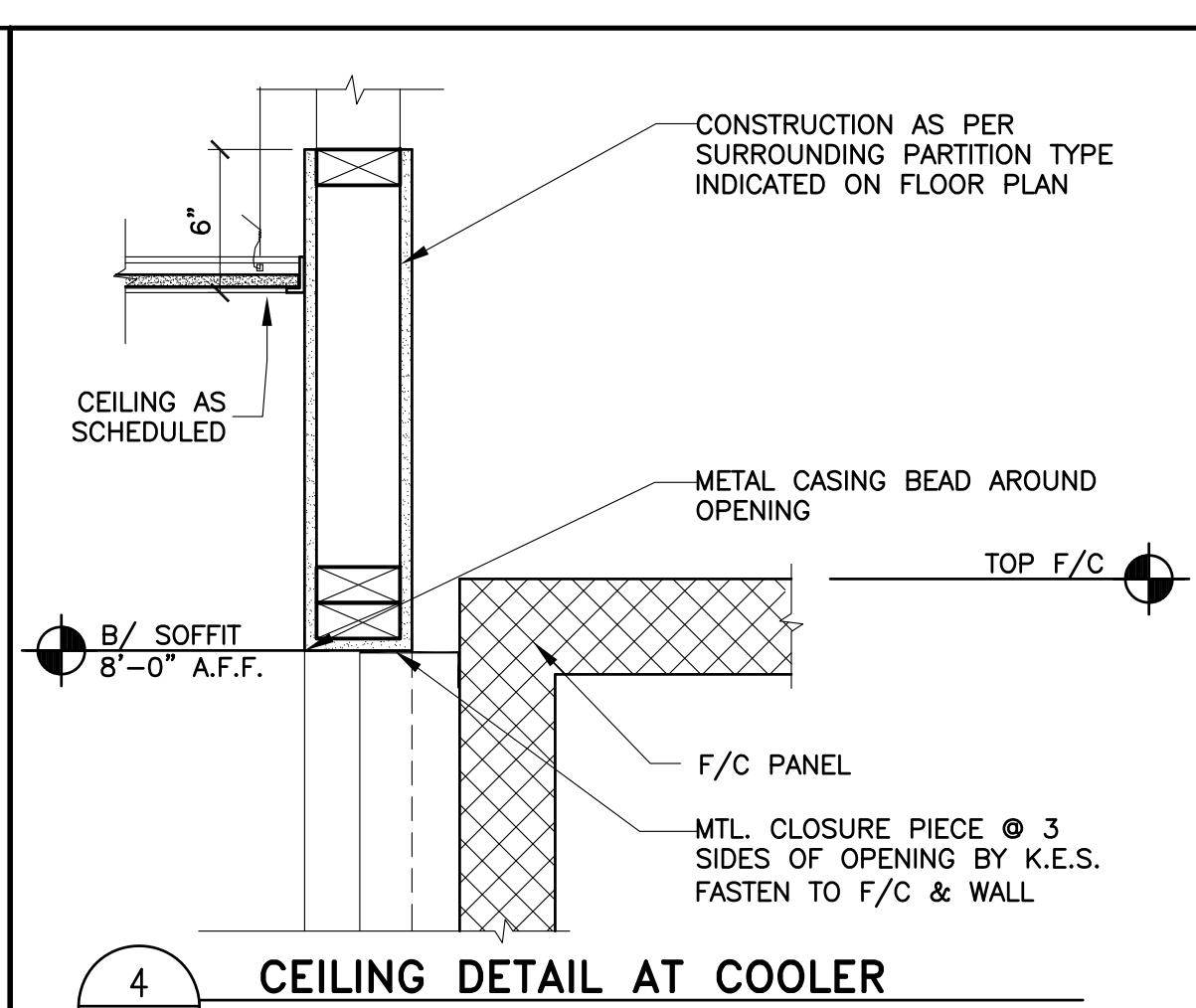
VALANCE SECTION

A1.2 1"="1'-0"



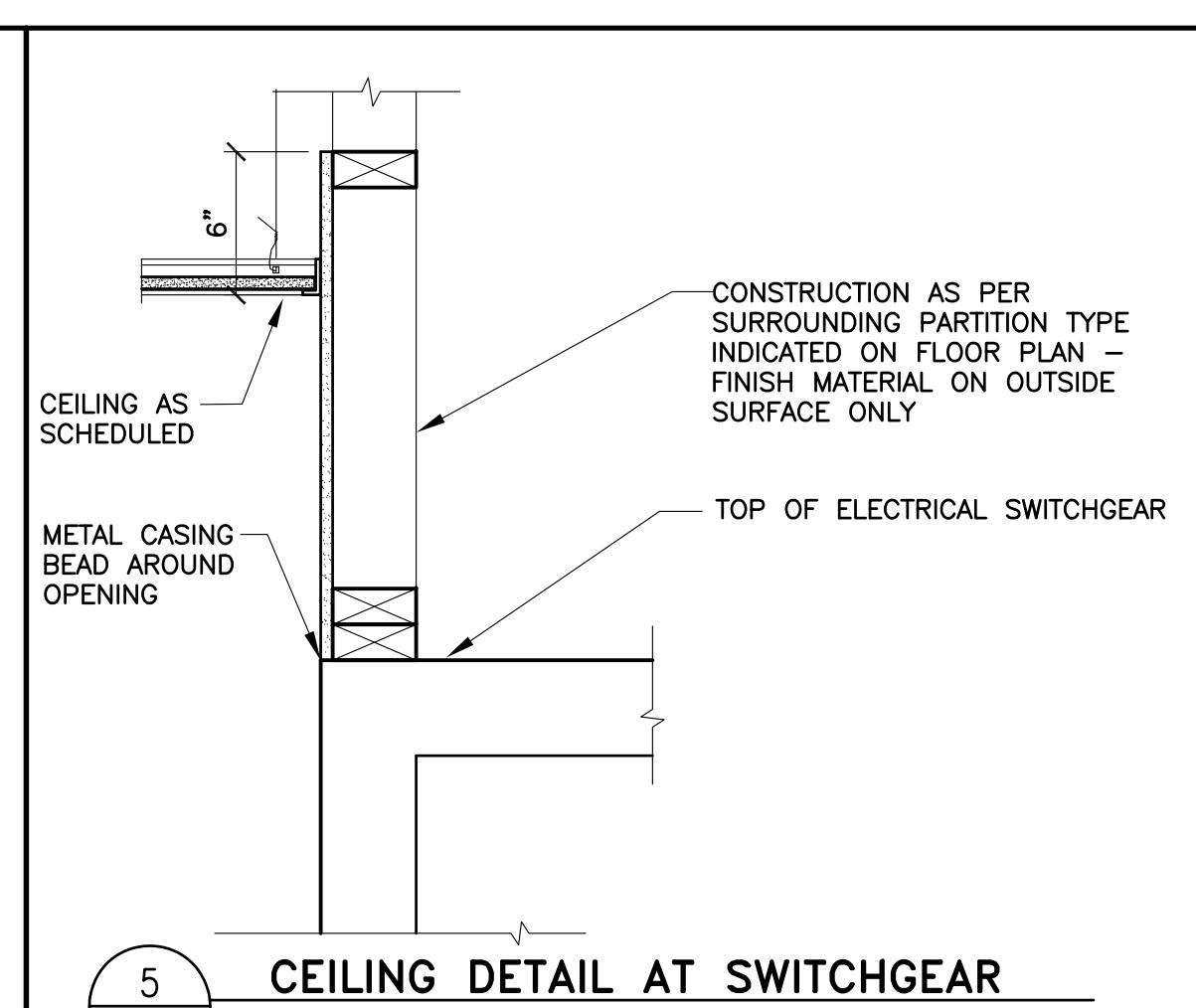
CEILING TRANSITION w/ SOFFIT

A1.2 1"="1'-0"



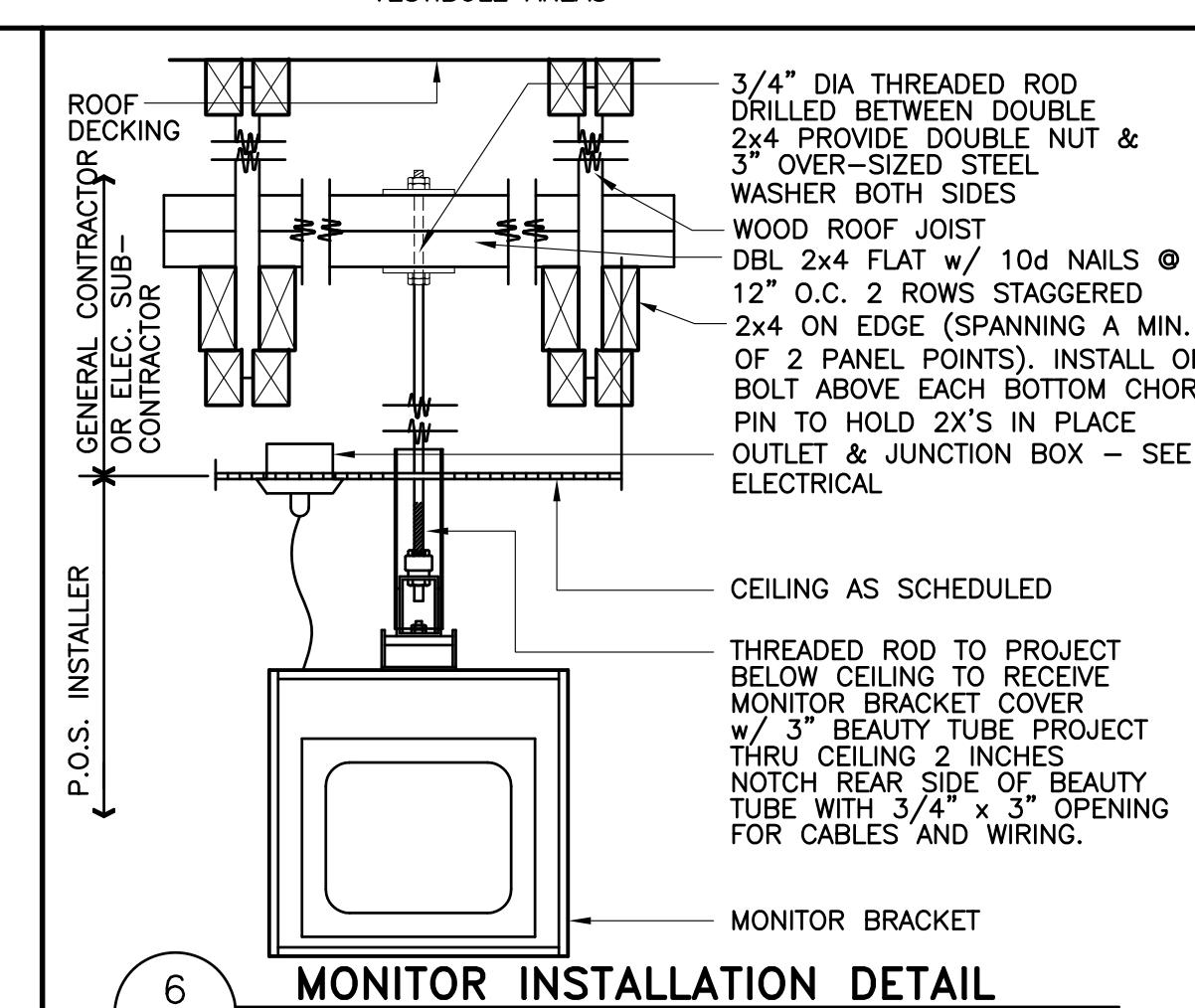
CEILING DETAIL AT COOLER

A1.2 1 1/2"="1'-0"



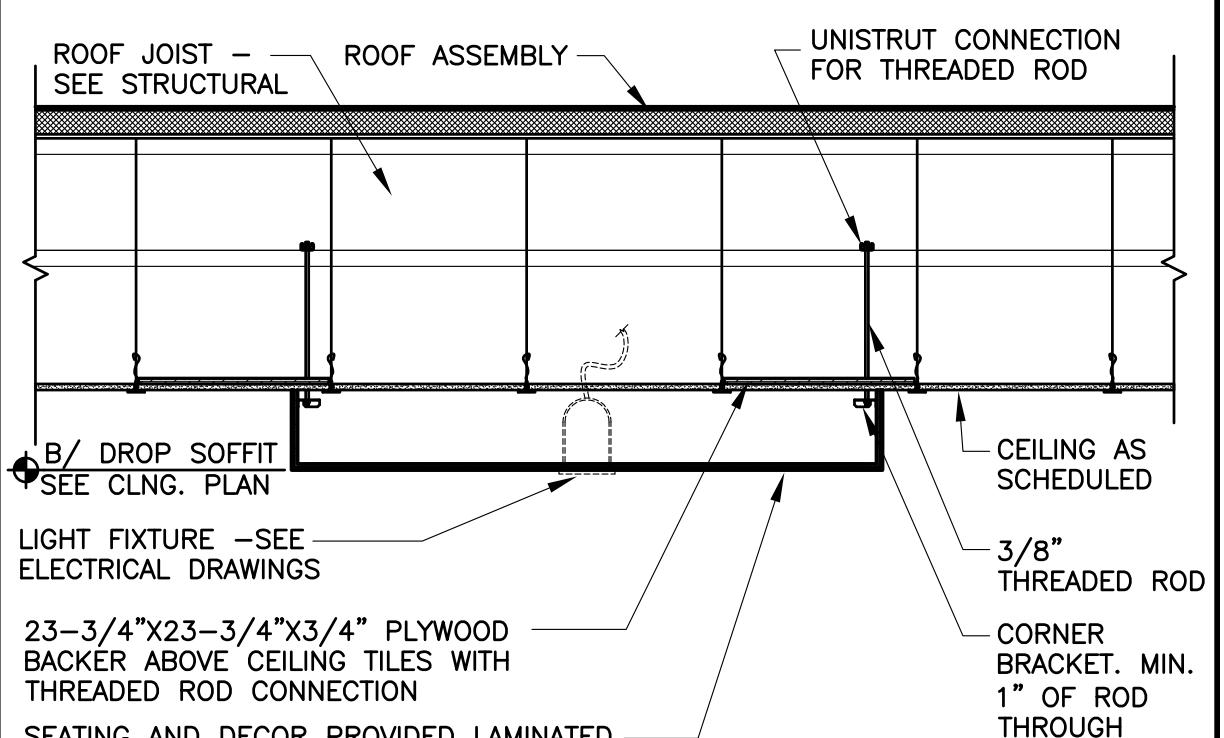
CEILING DETAIL AT SWITCHGEAR

A1.2 1 1/2"="1'-0"



MONITOR INSTALLATION DETAIL

A1.2 N.T.S.



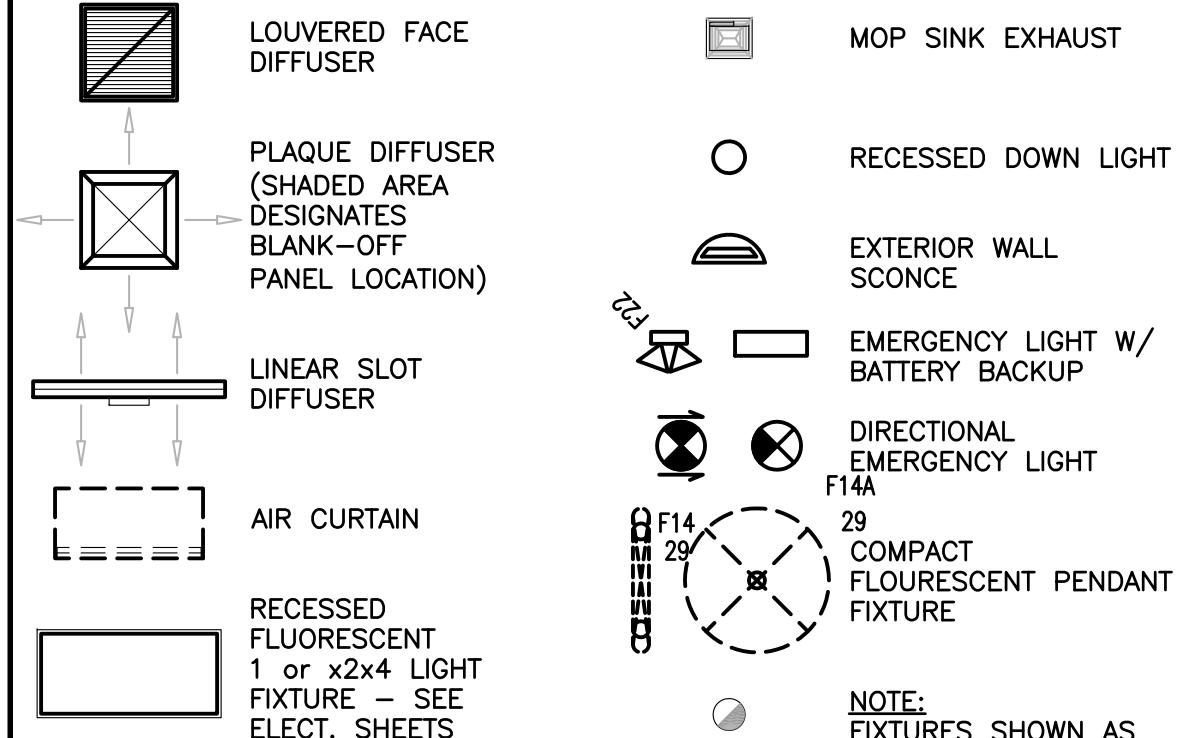
CEILING TRANSITION w/ SOFFIT

A1.2 1/2"="1'-0" COORDINATE w/ DECOR



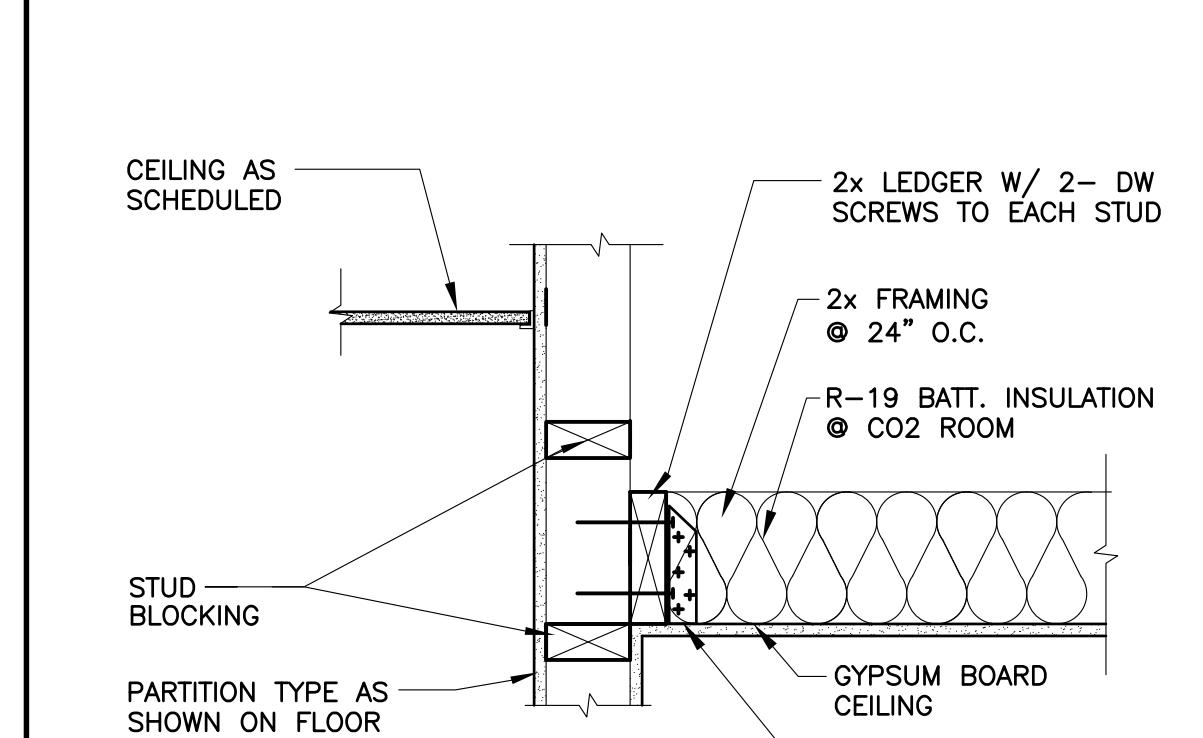
DETAIL NOT USED

A1.2 NOT TO SCALE



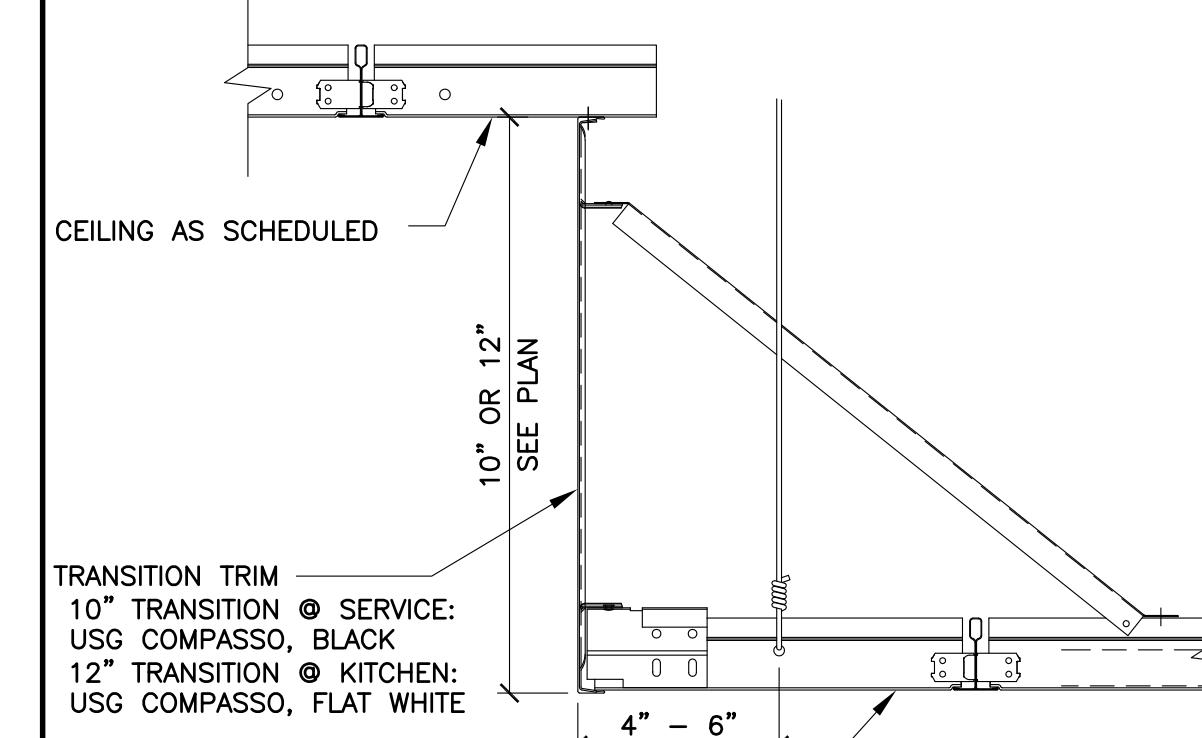
SYMBOL LEGEND

A1.2 NOT TO SCALE



GYP BD CEILING DETAIL

A1.2 1 1/2"="1'-0" A0610WB1

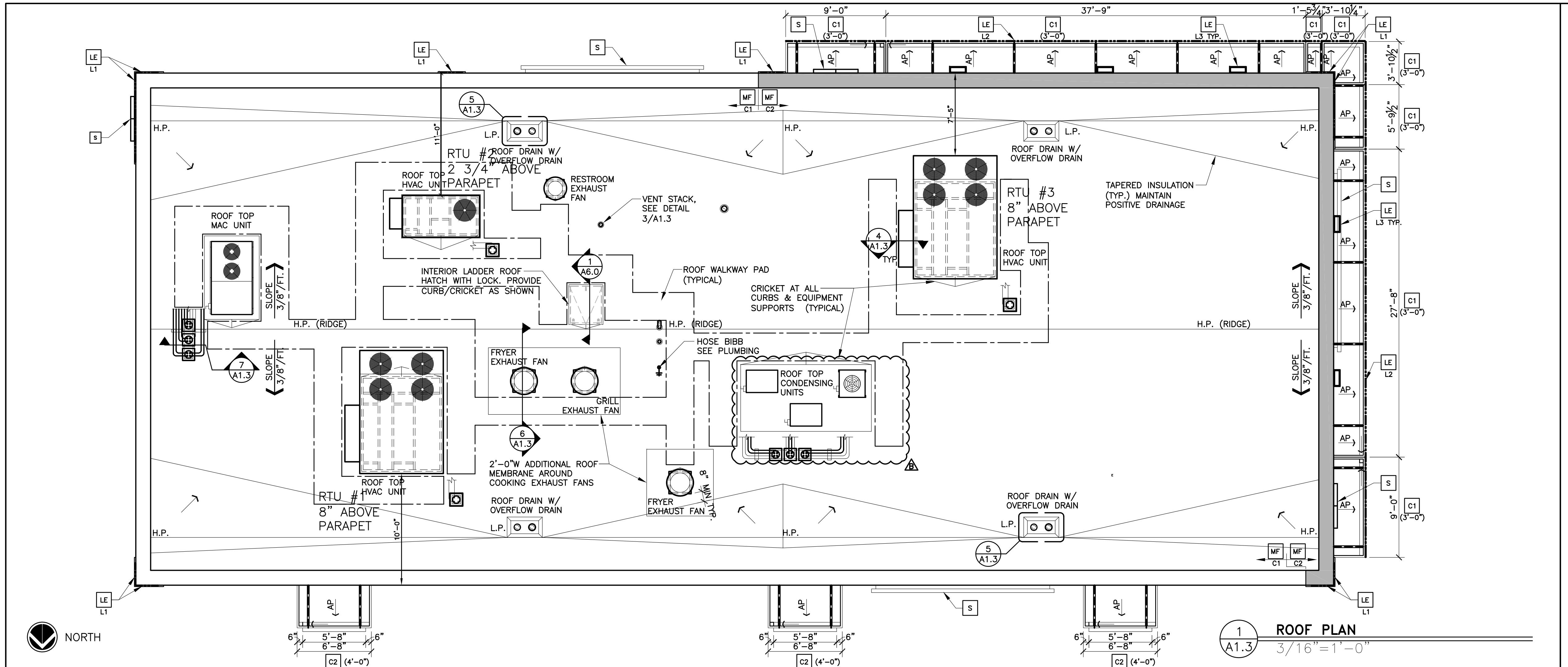


ACOUSTIC CEILING TRANSITION

A1.2 N.T.S. COORDINATE w/ DECOR

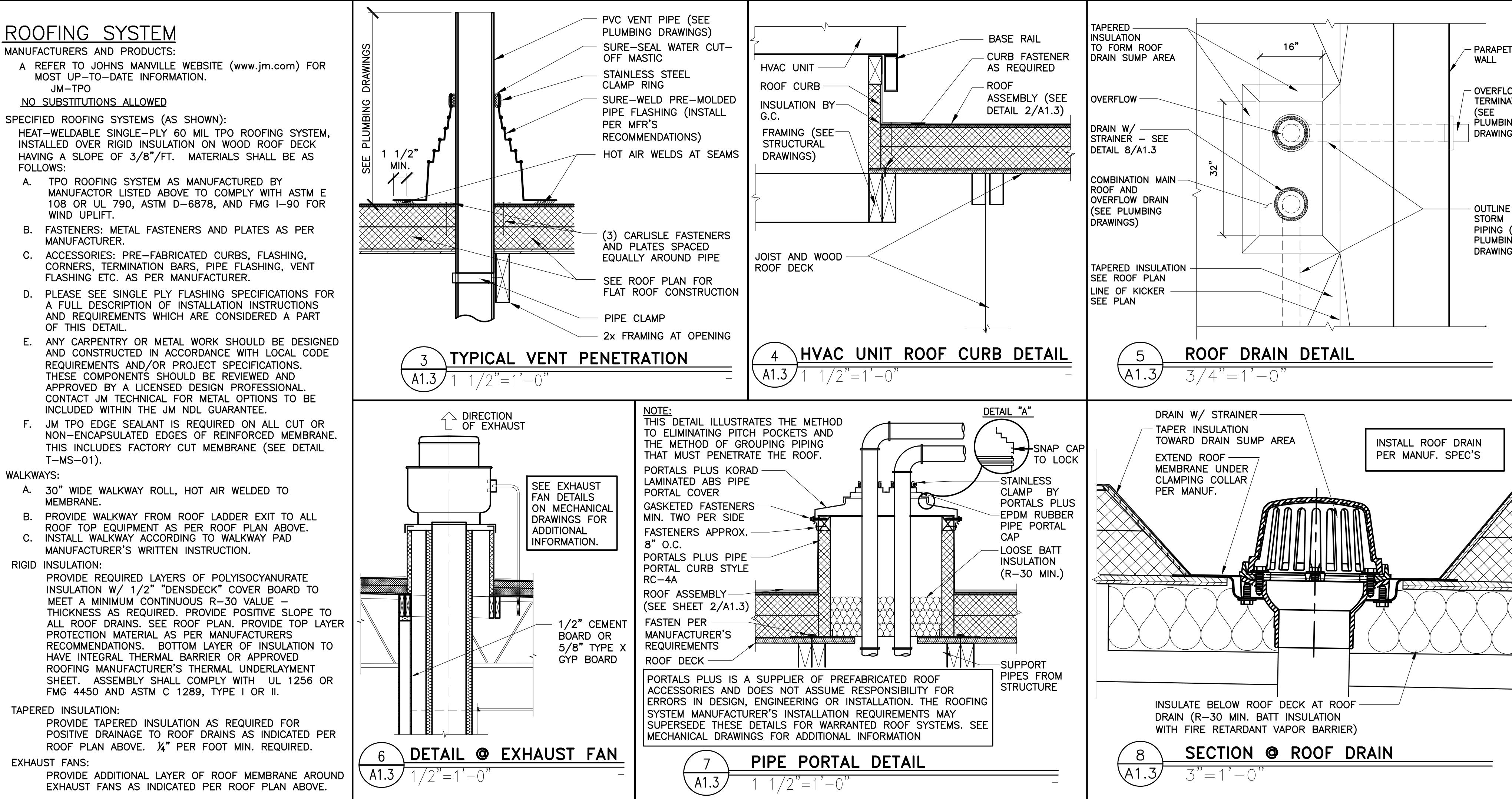
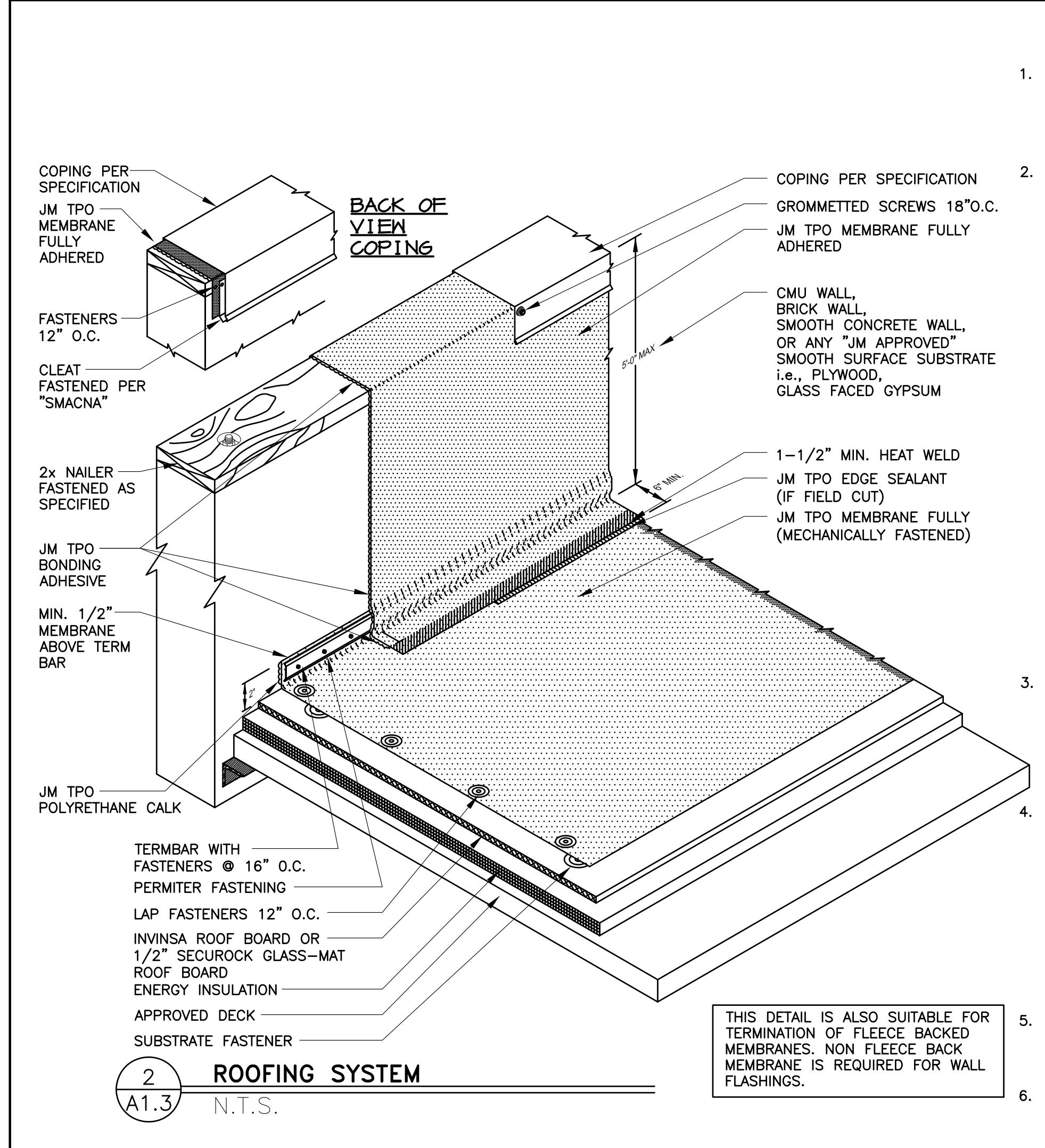
PREPARED BY:  
12400 ARCHITECTURE & PLANNING, SOUTH,  
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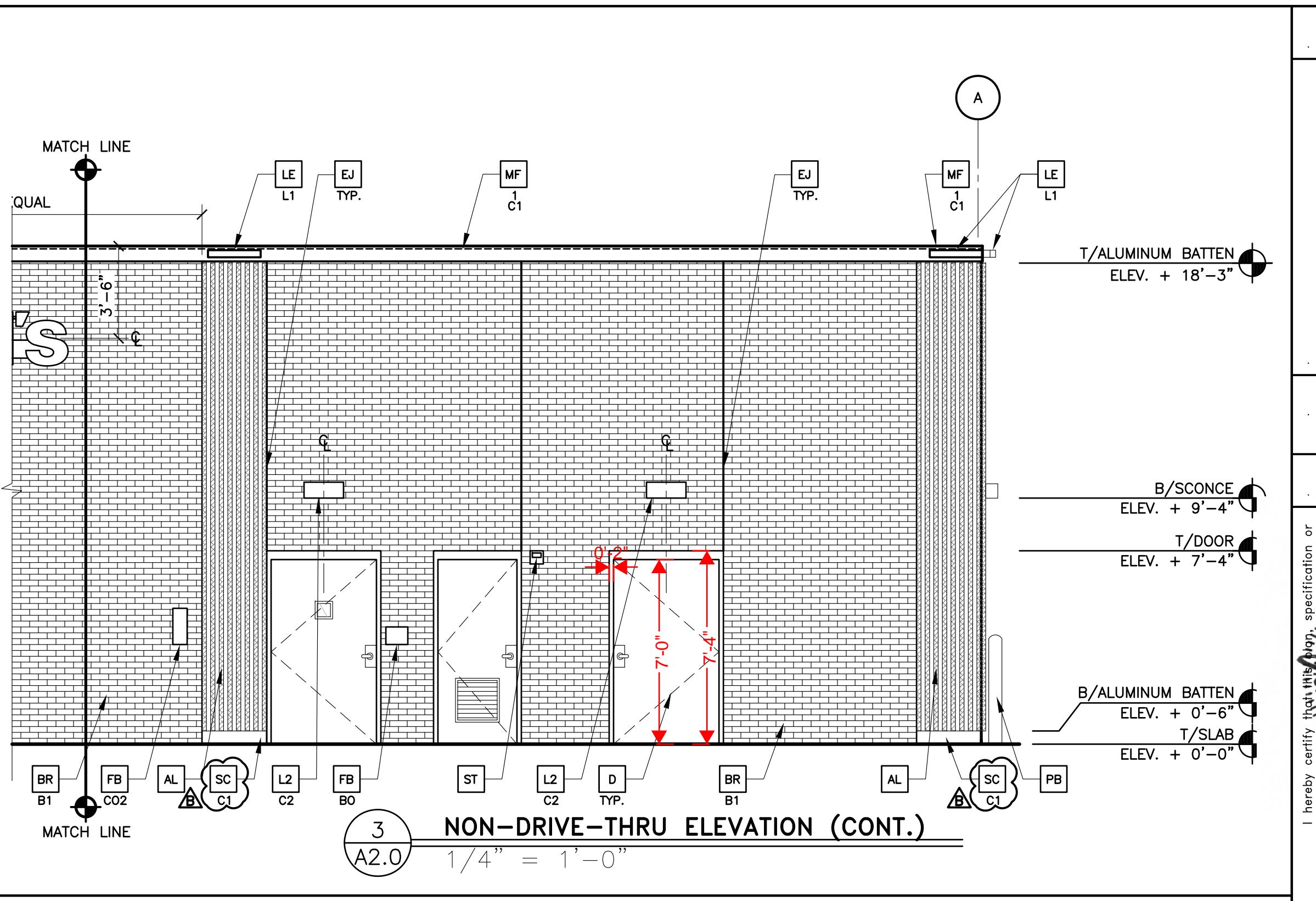
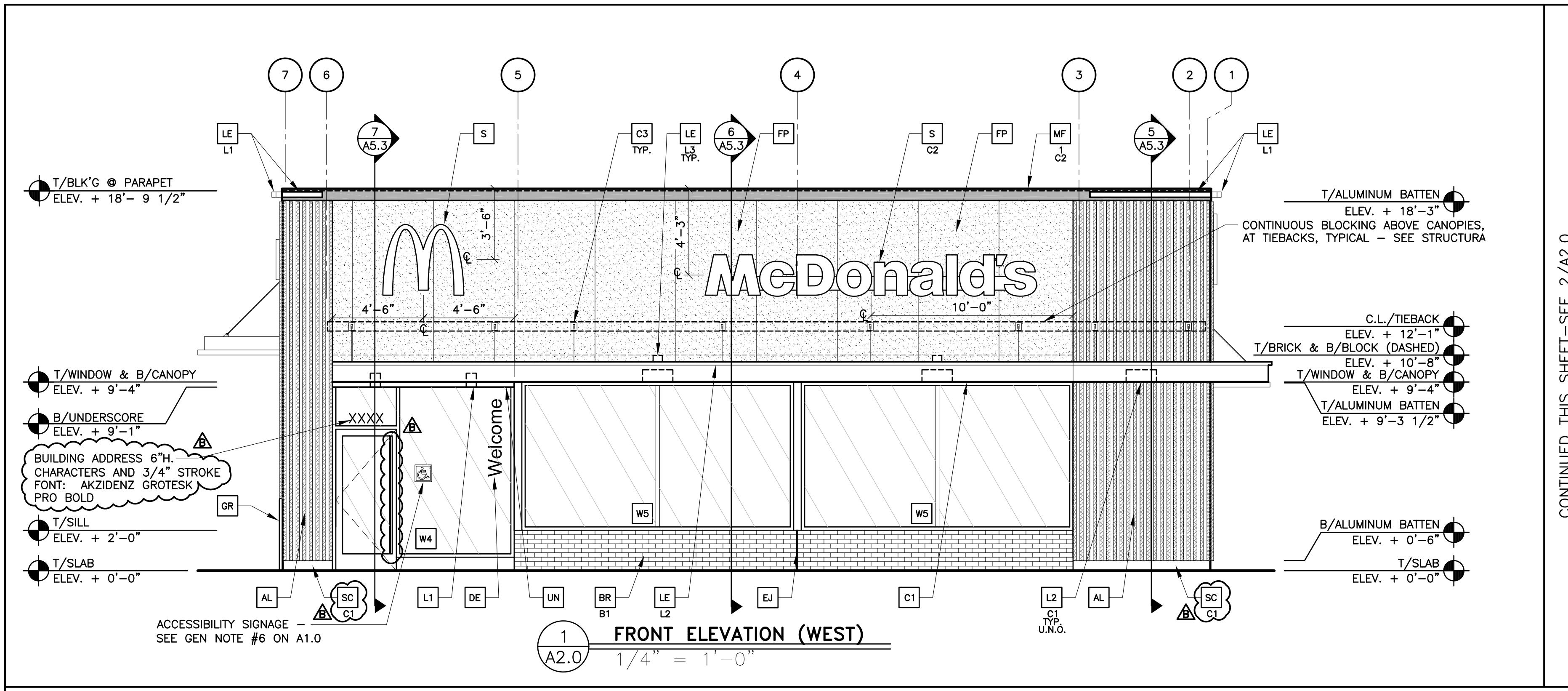
015-0071.00.B  
A1.2  
REFLECTED CLG. PLAN



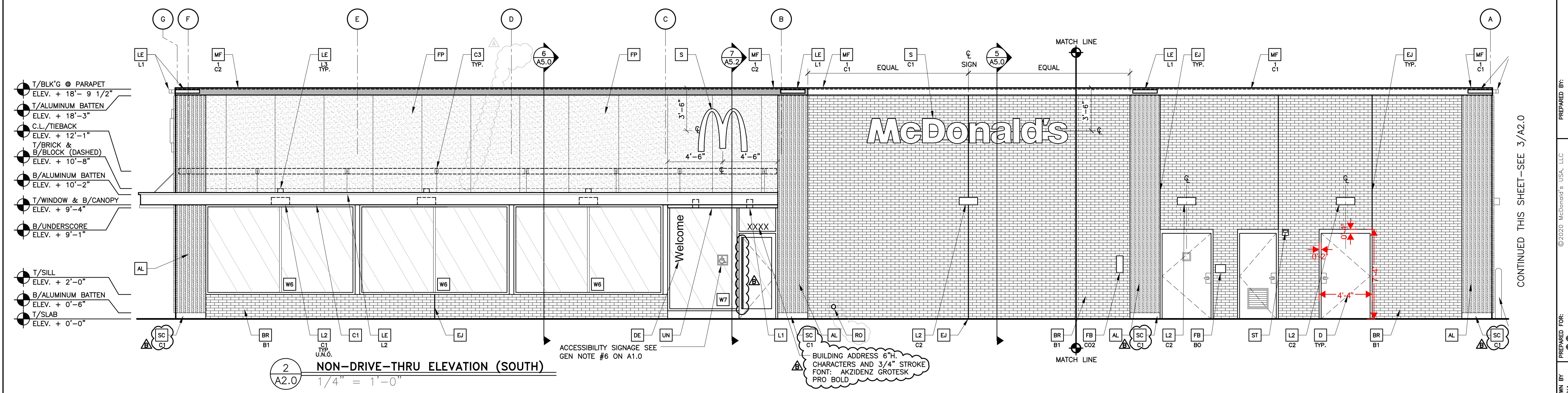
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	2019 STANDARD BUILDING - BB20	B	12/03/20	SERVICE AREA OPTIMIZATION
	4597F10-WOOD/WOOD	A	05/15/20	USFD SA SET REVIEW
			11/15/20	CIVIL & PLAN REVIEW COMMENTS
			01/23/20	PERMIT SET
			01/13/20	USD PROGRESS SET REVIEW
				BY

PREPARED BY:	McDonald's USA, LLC	DRAWN BY:	REVIEWED BY:	DATE ISSUED:	STD ISSUE DATE	DRAWN:	STD ISSUE DATE	REVIEWED BY:	DATE ISSUED:	STD ISSUE DATE
Architecture, Inc.	McDonald's USA, LLC	Architecture, Inc.	KO	12/03/20	12/03/20	Architecture, Inc.	12/03/20	KO	12/03/20	12/03/20
DESIGN	DESIGN	DESIGN	DESIGN	DESIGN	DESIGN	DESIGN	DESIGN	DESIGN	DESIGN	DESIGN
12400 ARCHITECTURE & PLANNING, PORTLAND AVENUE SOUTH, SUITE 100 BURNSVILLE, MN 55337 PHONE: (952) 252-4042 FAX: (952) 252-4943	© 2020 McDonald's USA, LLC These drawings and specifications are the confidential and proprietary property of McDonald's USA, LLC and shall not be reproduced or distributed outside the contract documents without the express written consent of McDonald's USA, LLC. These drawings and specifications are prepared for use on this specific project only. They are not suitable for use on other projects or for reference or example on another project unless specifically authorized by McDonald's USA, LLC. Any unauthorized use of these drawings and specifications for release on other projects is not authorized.	12400 ARCHITECTURE & PLANNING, PORTLAND AVENUE SOUTH, SUITE 100 BURNSVILLE, MN 55337 EMAIL: DATAREPRESENTED.COM PHONE: (952) 252-4042 FAX: (952) 252-4943	12400 ARCHITECTURE & PLANNING, PORTLAND AVENUE SOUTH, SUITE 100 BURNSVILLE, MN 55337 EMAIL: DATAREPRESENTED.COM PHONE: (952) 252-4042 FAX: (952) 252-4943	12400 ARCHITECTURE & PLANNING, PORTLAND AVENUE SOUTH, SUITE 100 BURNSVILLE, MN 55337 EMAIL: DATAREPRESENTED.COM PHONE: (952) 252-4042 FAX: (952) 252-4943	12400 ARCHITECTURE & PLANNING, PORTLAND AVENUE SOUTH, SUITE 100 BURNSVILLE, MN 55337 EMAIL: DATAREPRESENTED.COM PHONE: (952) 252-4042 FAX: (952) 252-4943	12400 ARCHITECTURE & PLANNING, PORTLAND AVENUE SOUTH, SUITE 100 BURNSVILLE, MN 55337 EMAIL: DATAREPRESENTED.COM PHONE: (952) 252-4042 FAX: (952) 252-4943	12400 ARCHITECTURE & PLANNING, PORTLAND AVENUE SOUTH, SUITE 100 BURNSVILLE, MN 55337 EMAIL: DATAREPRESENTED.COM PHONE: (952) 252-4042 FAX: (952) 252-4943	12400 ARCHITECTURE & PLANNING, PORTLAND AVENUE SOUTH, SUITE 100 BURNSVILLE, MN 55337 EMAIL: DATAREPRESENTED.COM PHONE: (952) 252-4042 FAX: (952) 252-4943	12400 ARCHITECTURE & PLANNING, PORTLAND AVENUE SOUTH, SUITE 100 BURNSVILLE, MN 55337 EMAIL: DATAREPRESENTED.COM PHONE: (952) 252-4042 FAX: (952) 252-4943	12400 ARCHITECTURE & PLANNING, PORTLAND AVENUE SOUTH, SUITE 100 BURNSVILLE, MN 55337 EMAIL: DATAREPRESENTED.COM PHONE: (952) 252-4042 FAX: (952) 252-4943

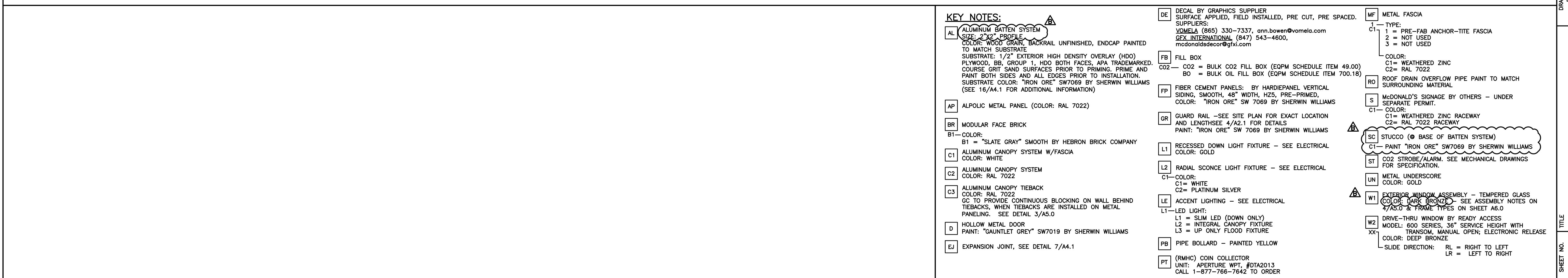




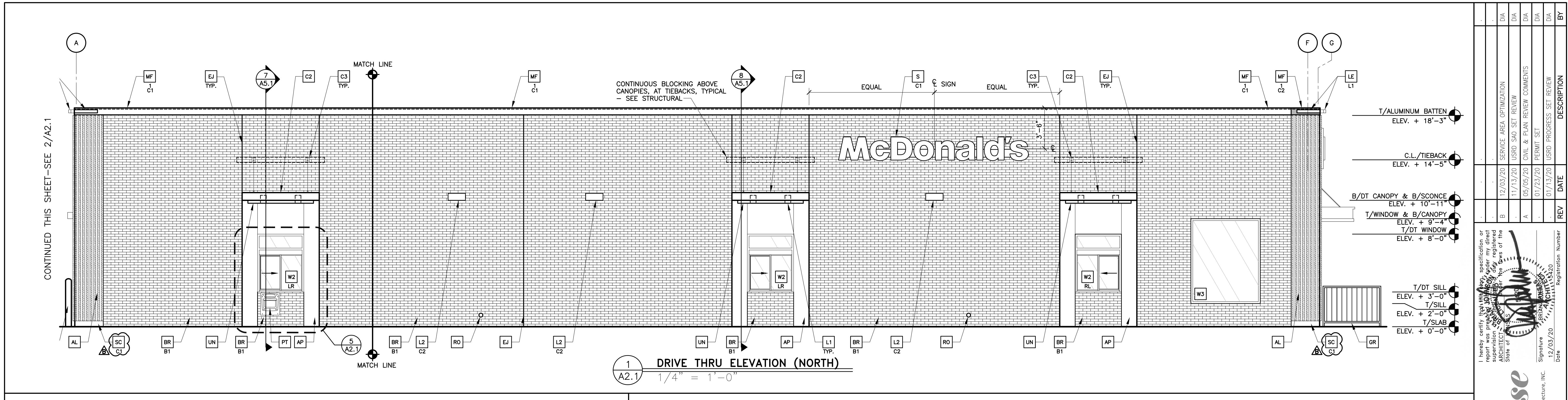
REVISION	DATE	DESCRIPTION
B	12/03/20	USED S&O SET REVIEW
A	05/05/20	CIVIL & PLAN REVIEW COMMENTS
DIA	01/23/20	PERMIT SET
DIA	01/13/20	USED PROGRESS SET REVIEW



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12400 ARCHITECTURE & PLANNING 12400 PORTLAND AVENUE SOUTH, SUITE 100 BURNSVILLE, MN 55337 EMAIL: DATA@REPRISEDESIGN.COM PHONE: (952) 252-4042 FAX: (952) 252-4943	
PREPARED FOR:	
M	
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**A2.0**  
ELEVATIONS



Architect, INC.

REprise

DESIGN

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FAX: (952) 252-4943

DATE:

12/03/20

REGISTRATION NUMBER:

12/03/20

DATE:

11/15/20

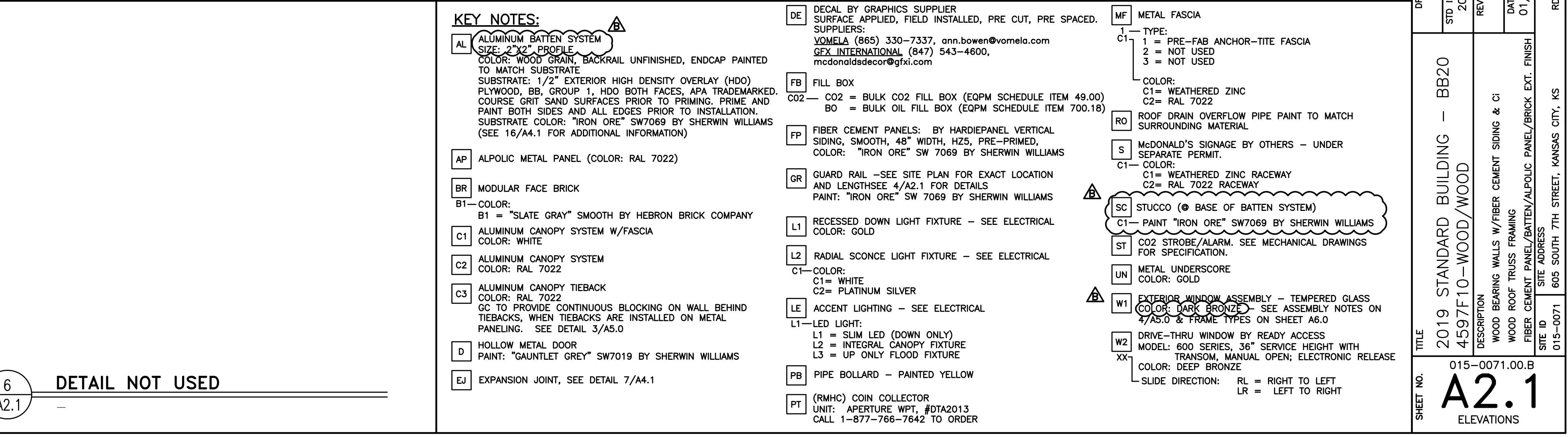
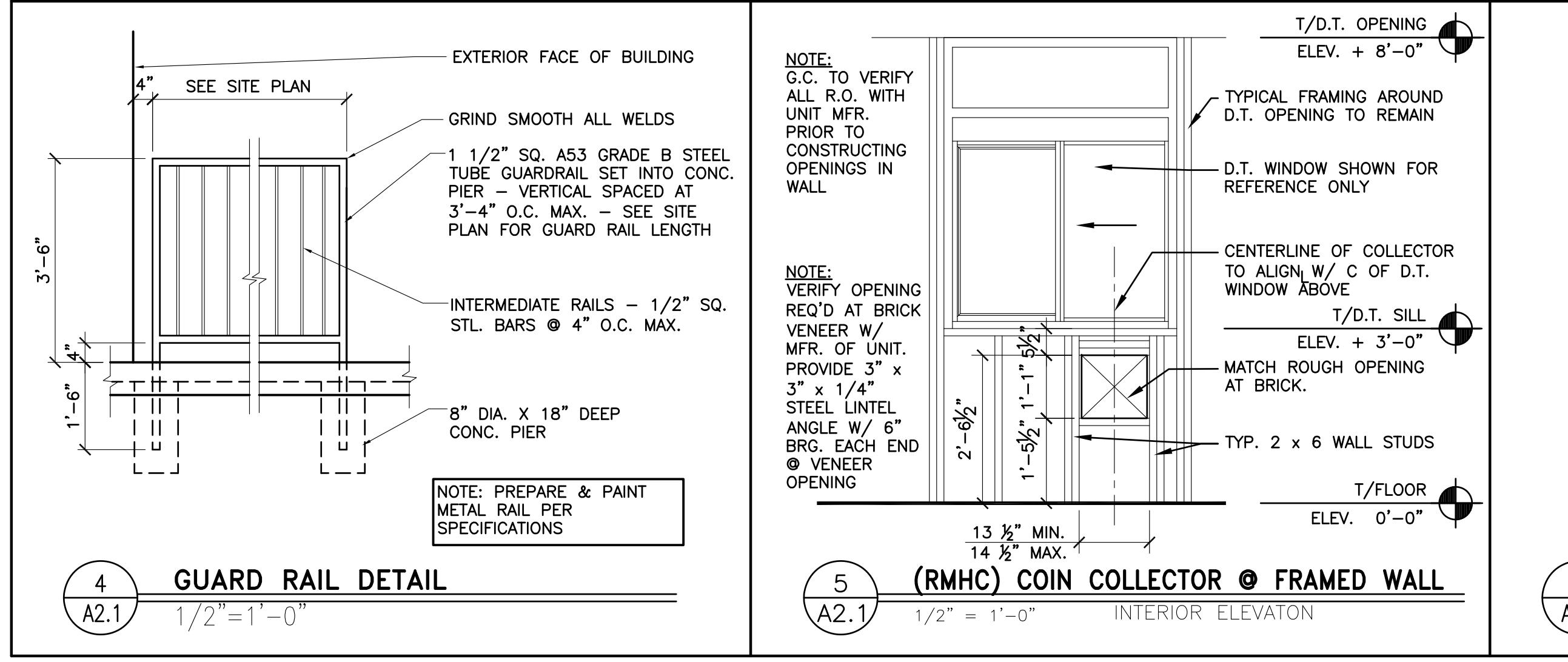
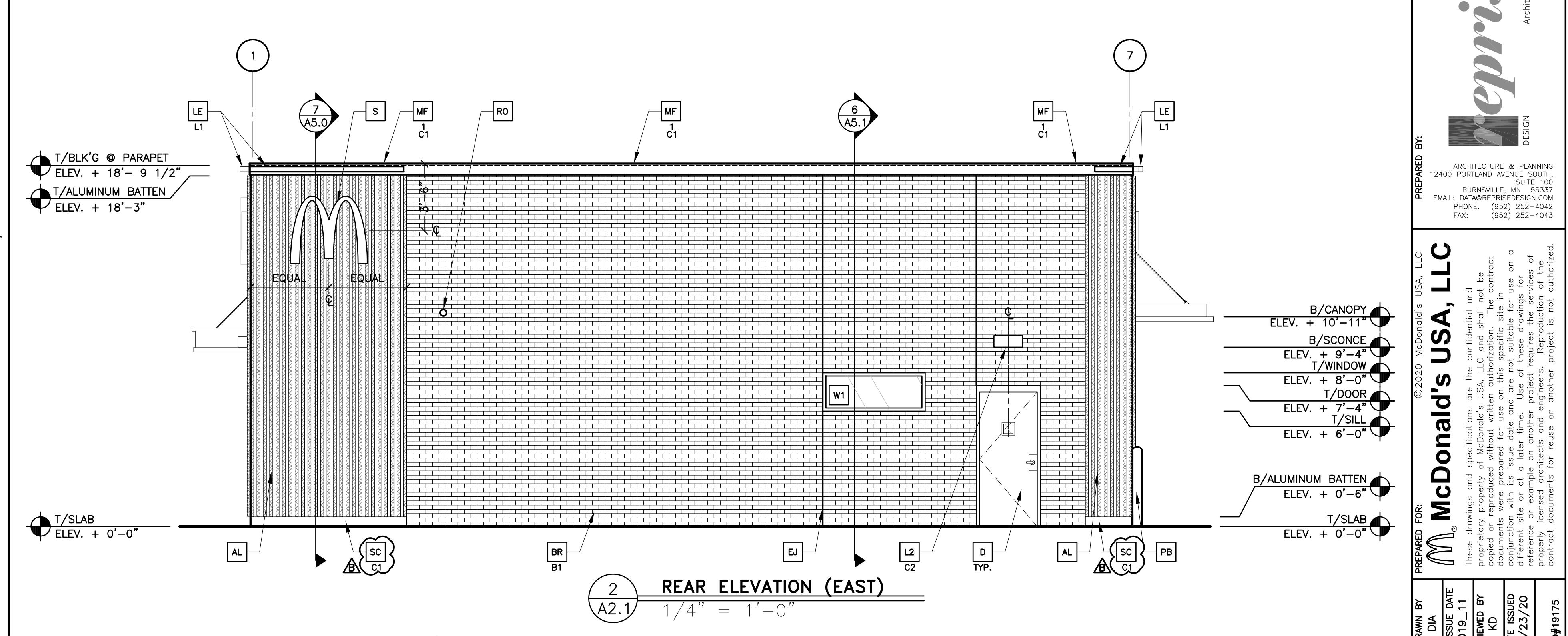
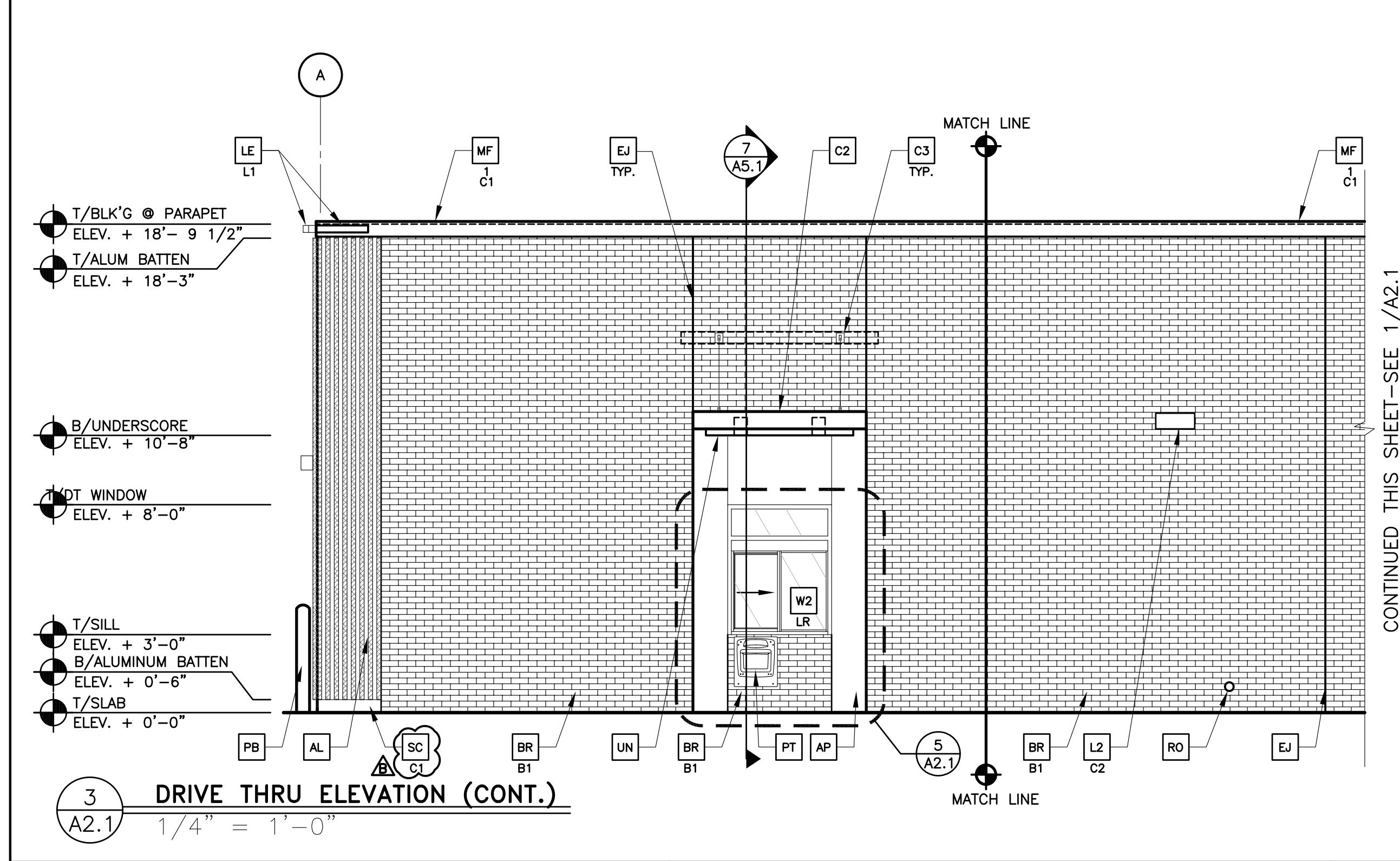
REVIEW COMMENTS:

CIVIL & PLAN REVIEW

PERMIT SET

PROGRESS SET REVIEW

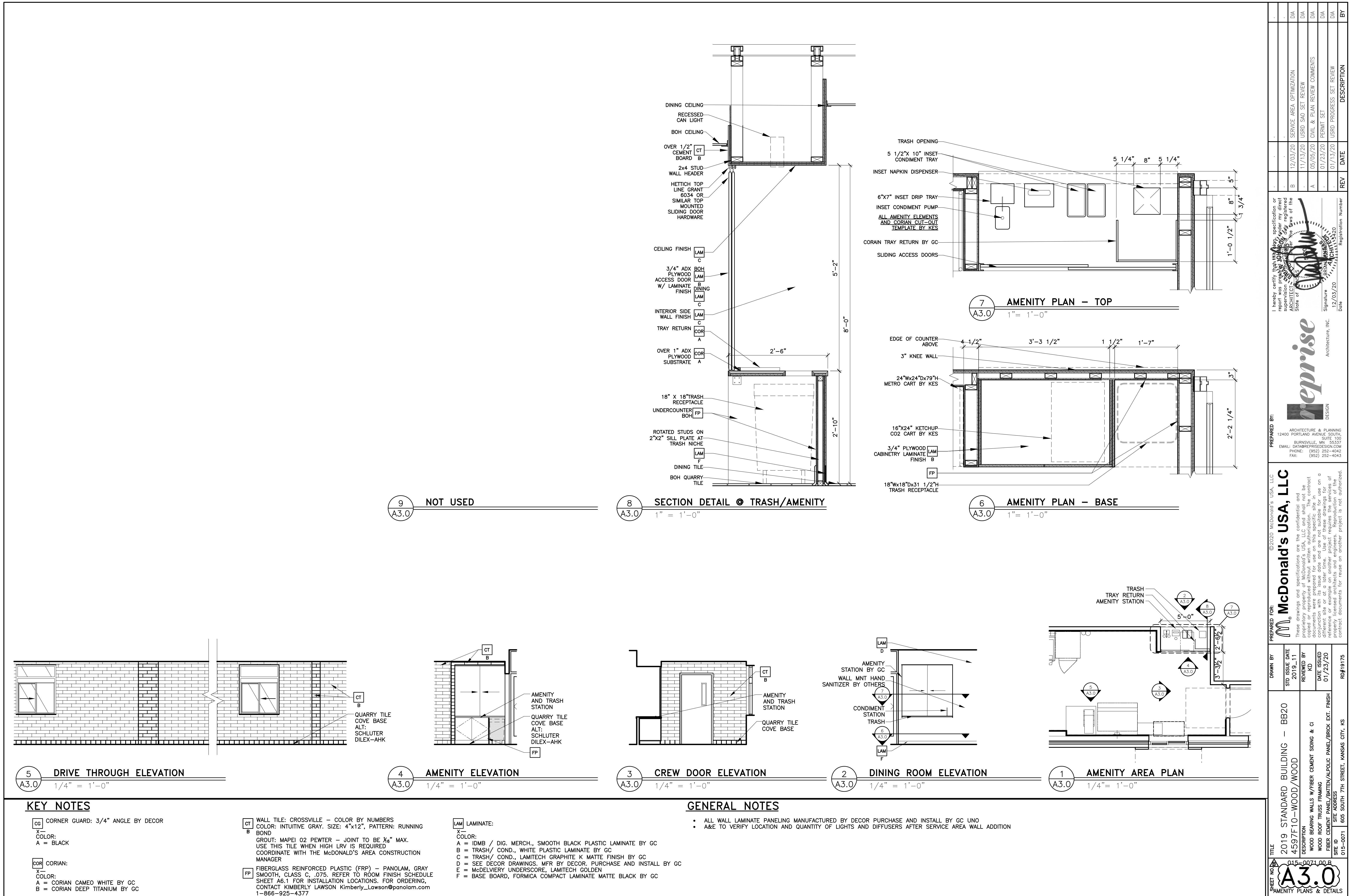
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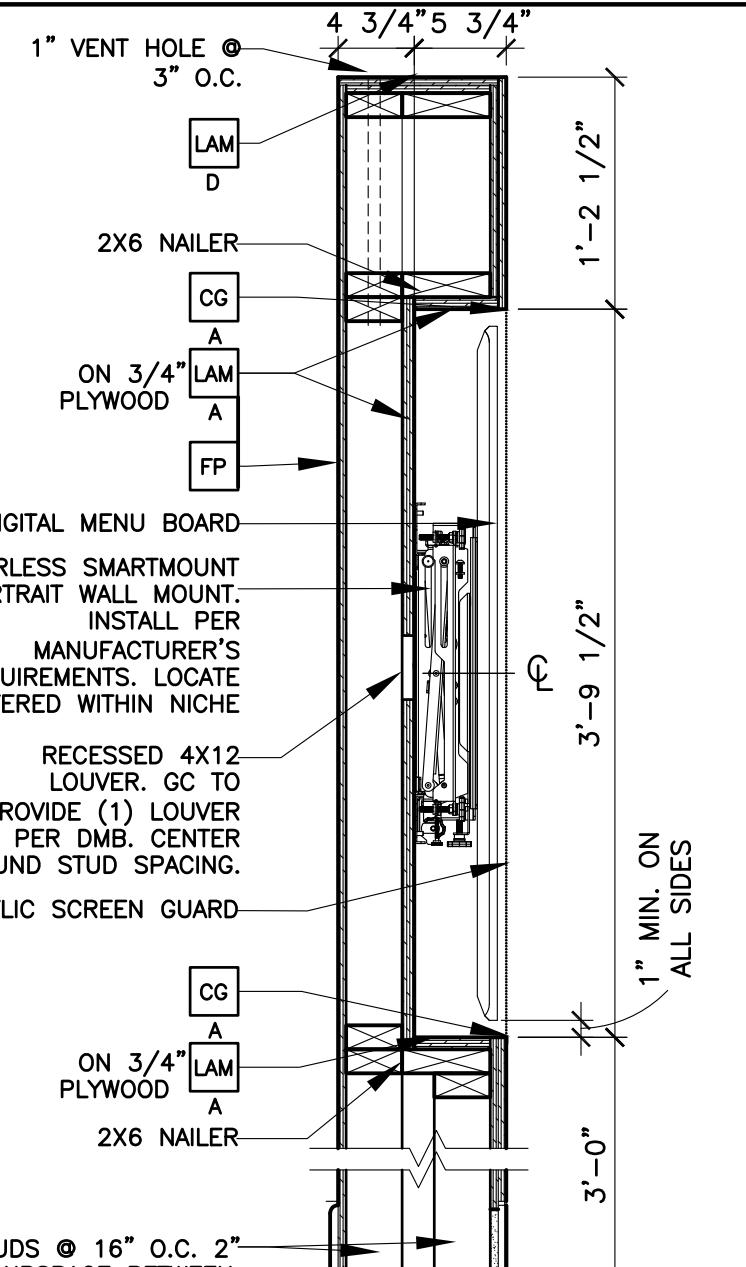


SHEET NO.	TITLE	DRAWN BY	DIA	STD ISSUE DATE	REVIEWED BY	DATE ISSUED	SITE ID	ADDRESS
015-0071.00.B	2019 STANDARD BUILDING - BB20 4597F10-WOOD/WOOD	©2019 McDonald's USA, LLC	KO	2019-11	REVIEWED BY K0	01/23/20	RD#19175	

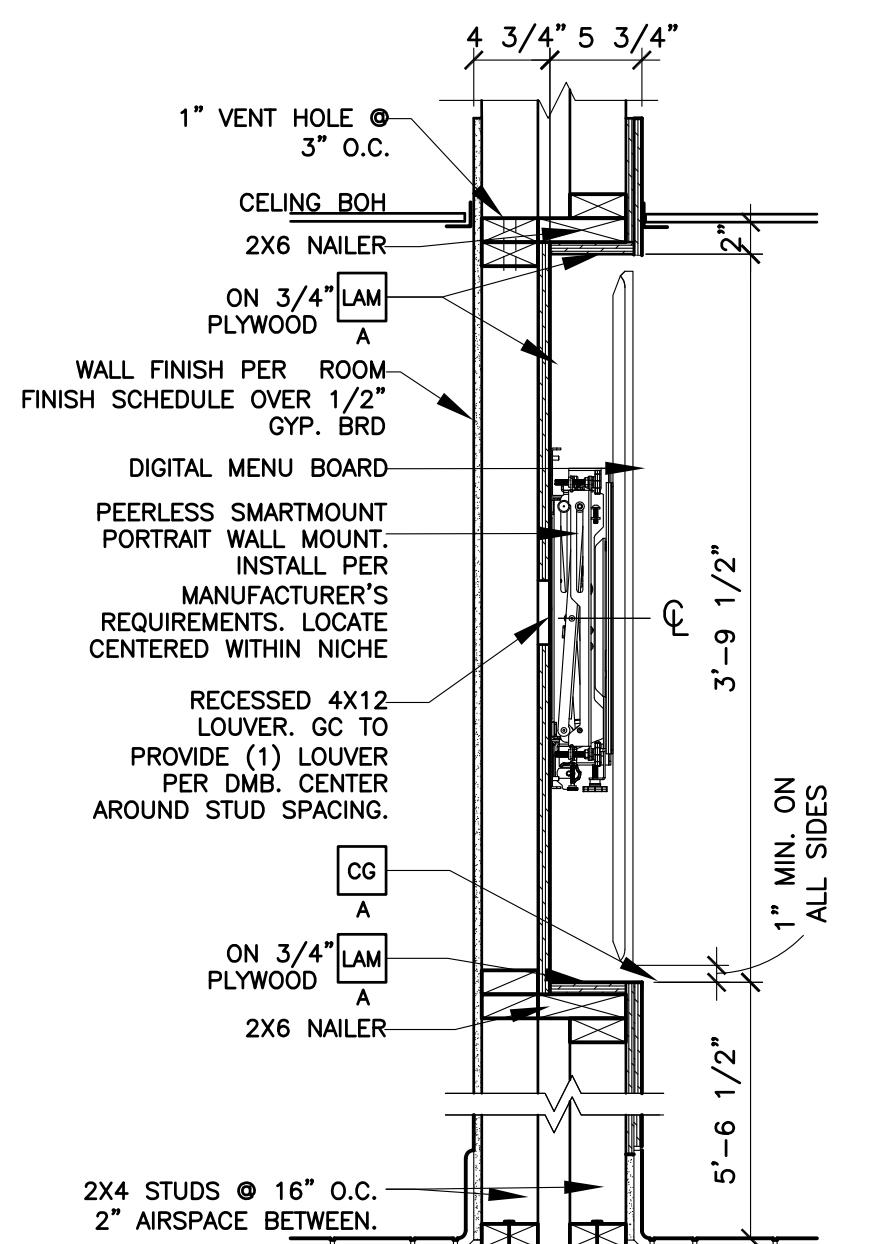
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ELEVATIONS

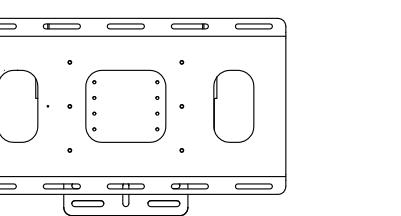




**11** SECTION @ DIGITAL MERCHANDISER

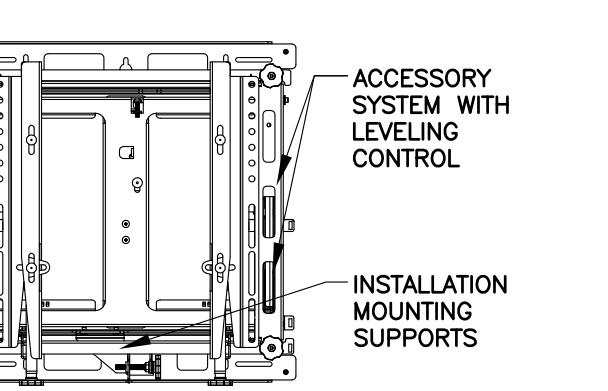


# SECTION @ MENU BOARDS



# DER READY BOARD (ORB)

## WALL BRACKET

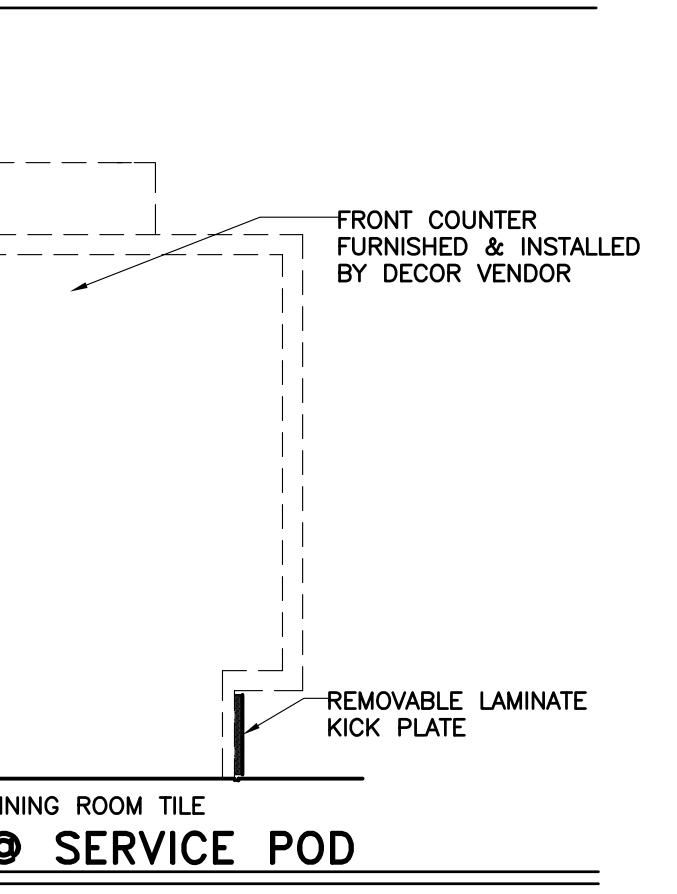


DIGITAL MERCHANDISER /  
NU BOARD WALL BRACKET

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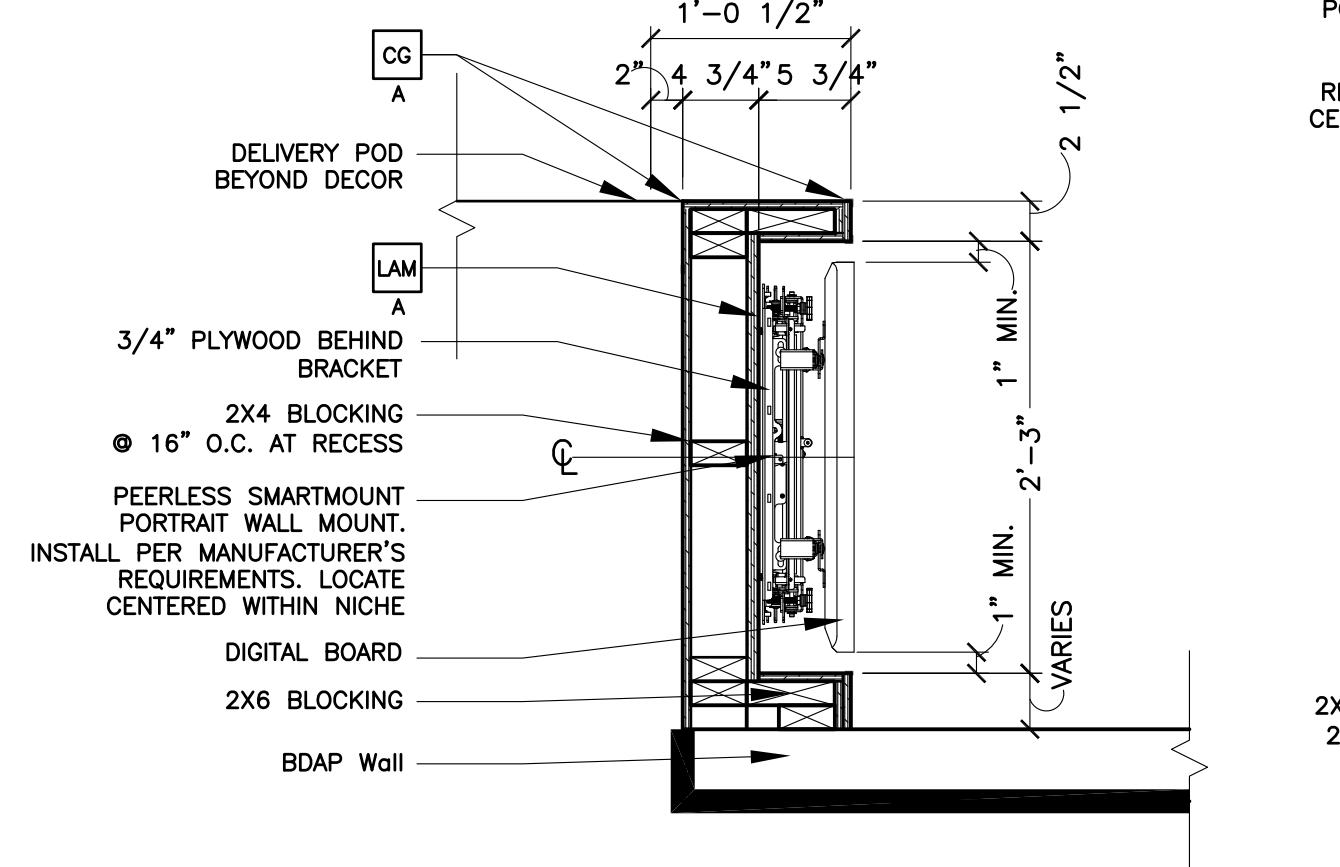
STUDS OR 3/4" PLYWOOD BACKING  
FACTURER'S INSTALLATION INSTRUCTIONS

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

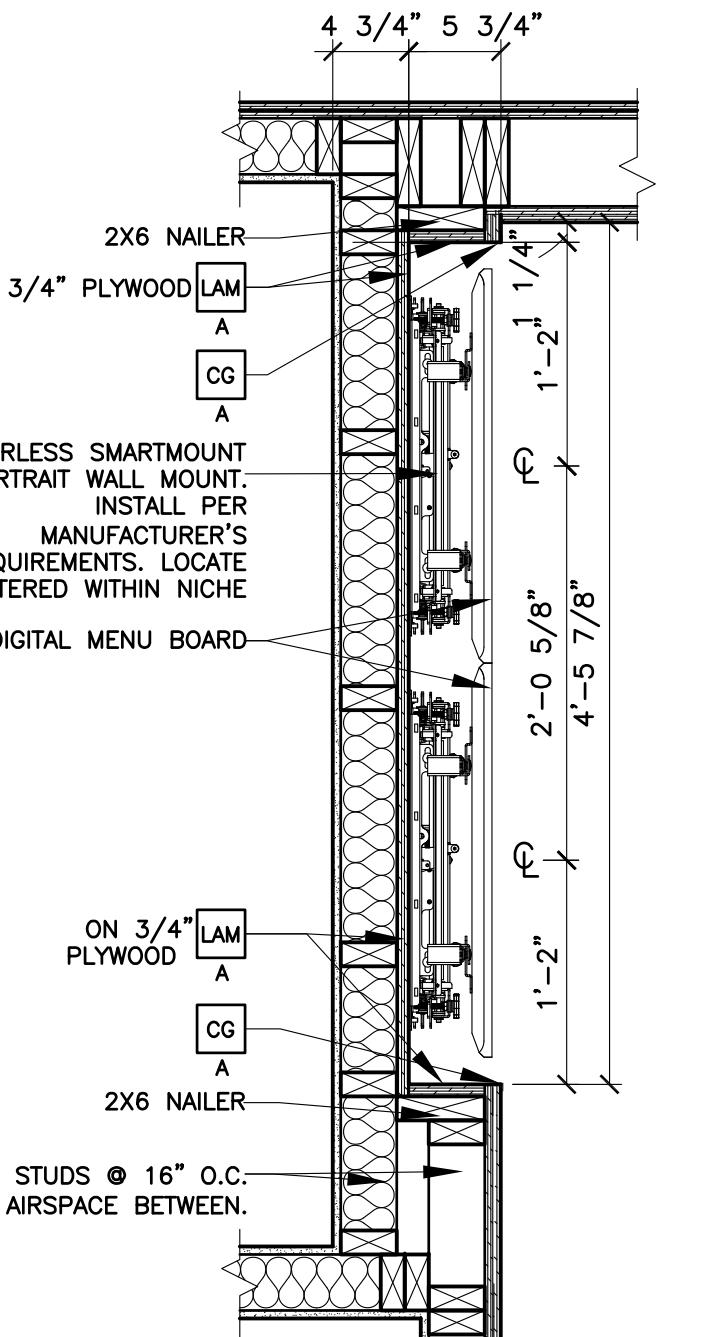


# BOARD BRACKET DETAIL

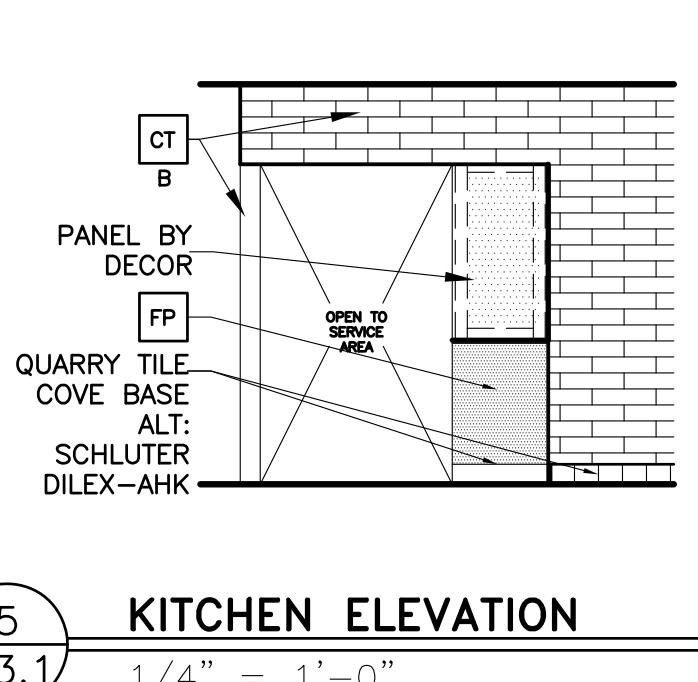
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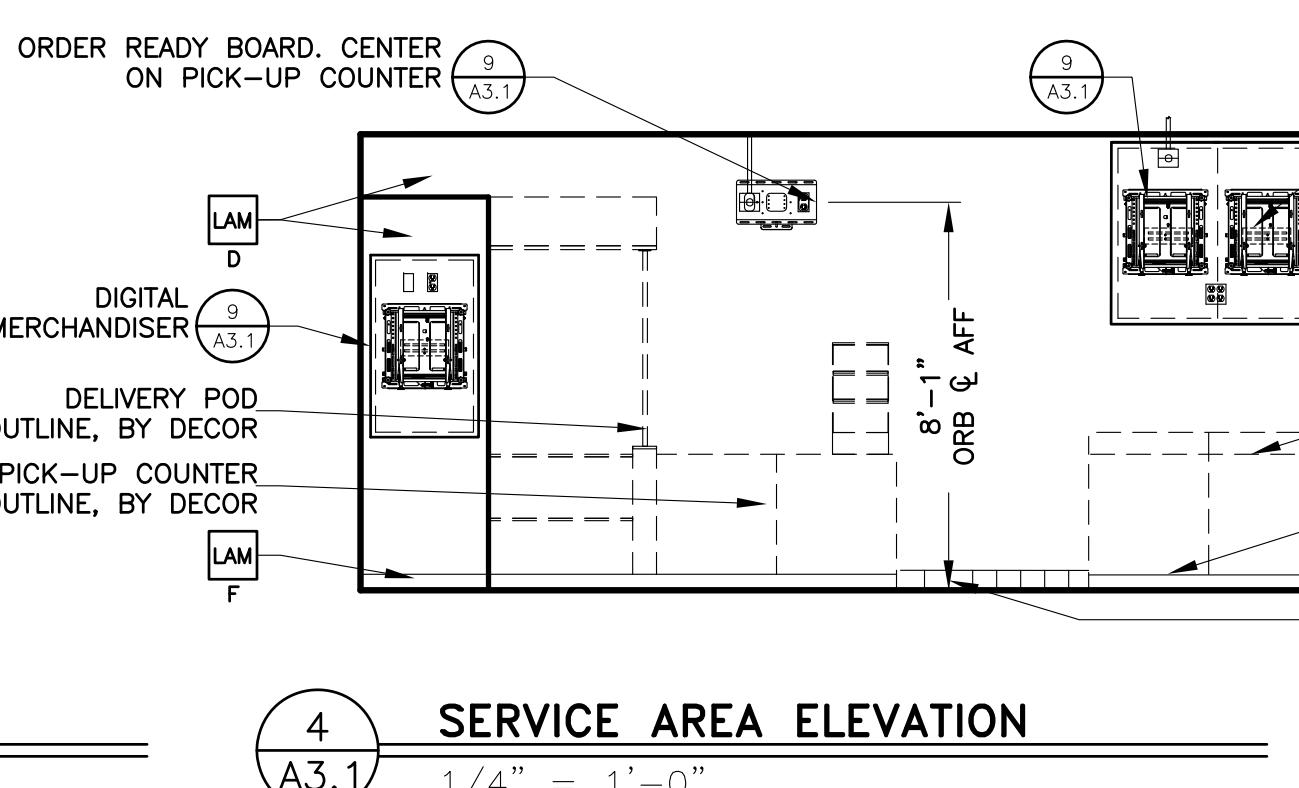
# PLAN DETAIL @ DIGITAL MERCHANDISER



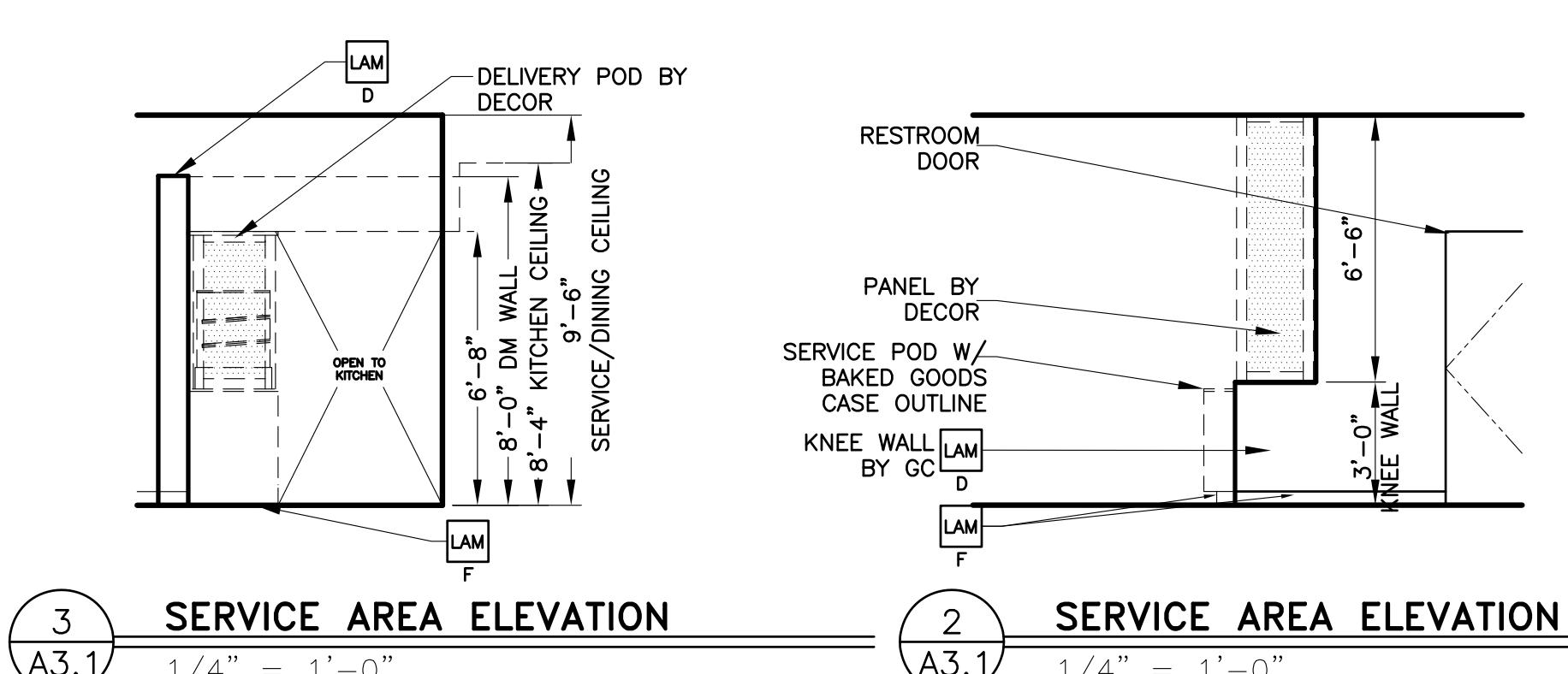
# PLAN DETAIL @ MENU BOARDS



**KITCHEN ELEVATION**



**4** SERVICE AREA ELEVATION  
A3.1  $1\frac{1}{4}'' = 1'-0''$



**SERVICE AREA ELEVATION**

## KEY NOTES

**CG** CORNER GUARD: 3/4" ANGLE BY DECOR

X—  
COLOR:  
A = BLACK

COR CORIAN:  
X COLOR:  
A = CORIAN CAMEO WHITE BY GC  
B = CORIAN DEEP TITANIUM BY GC

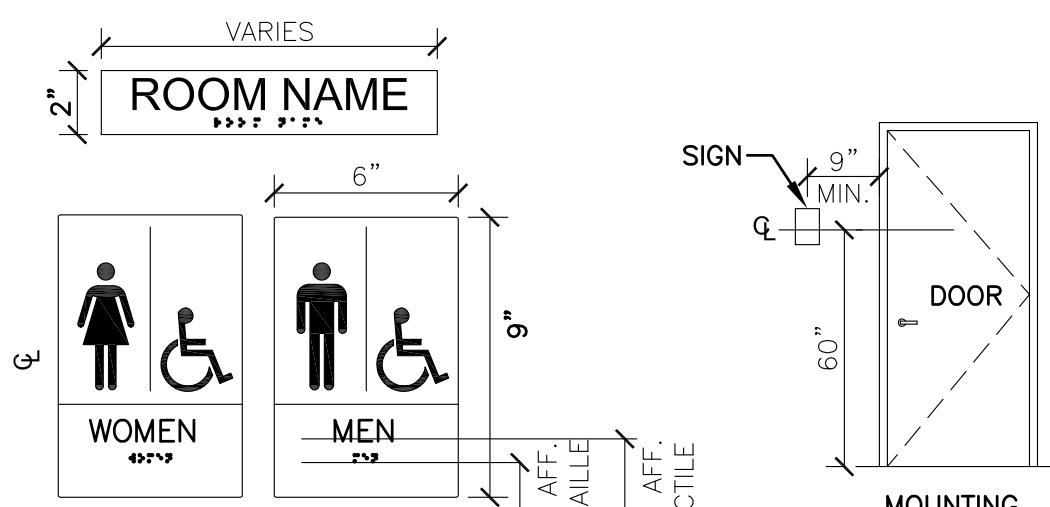
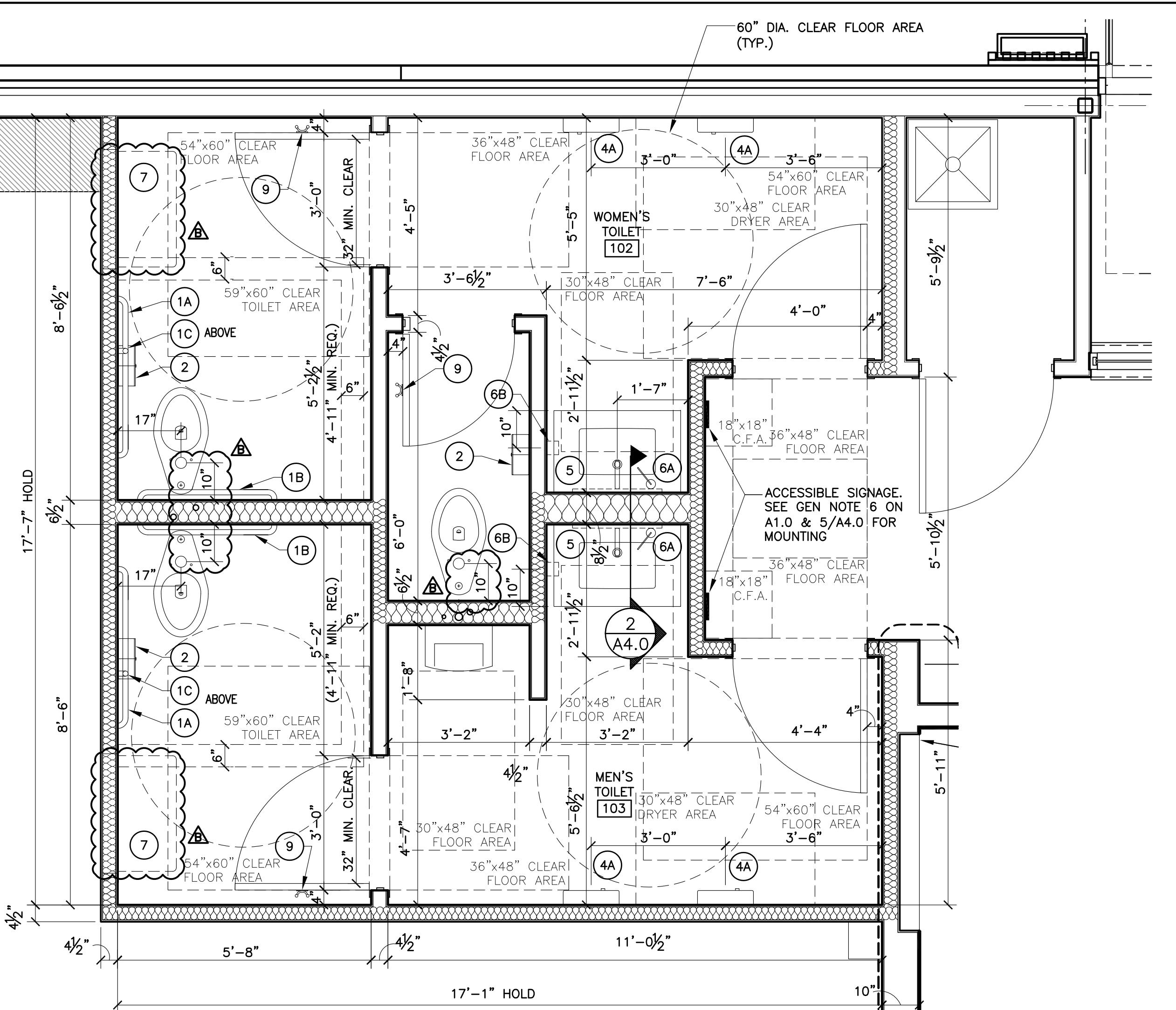
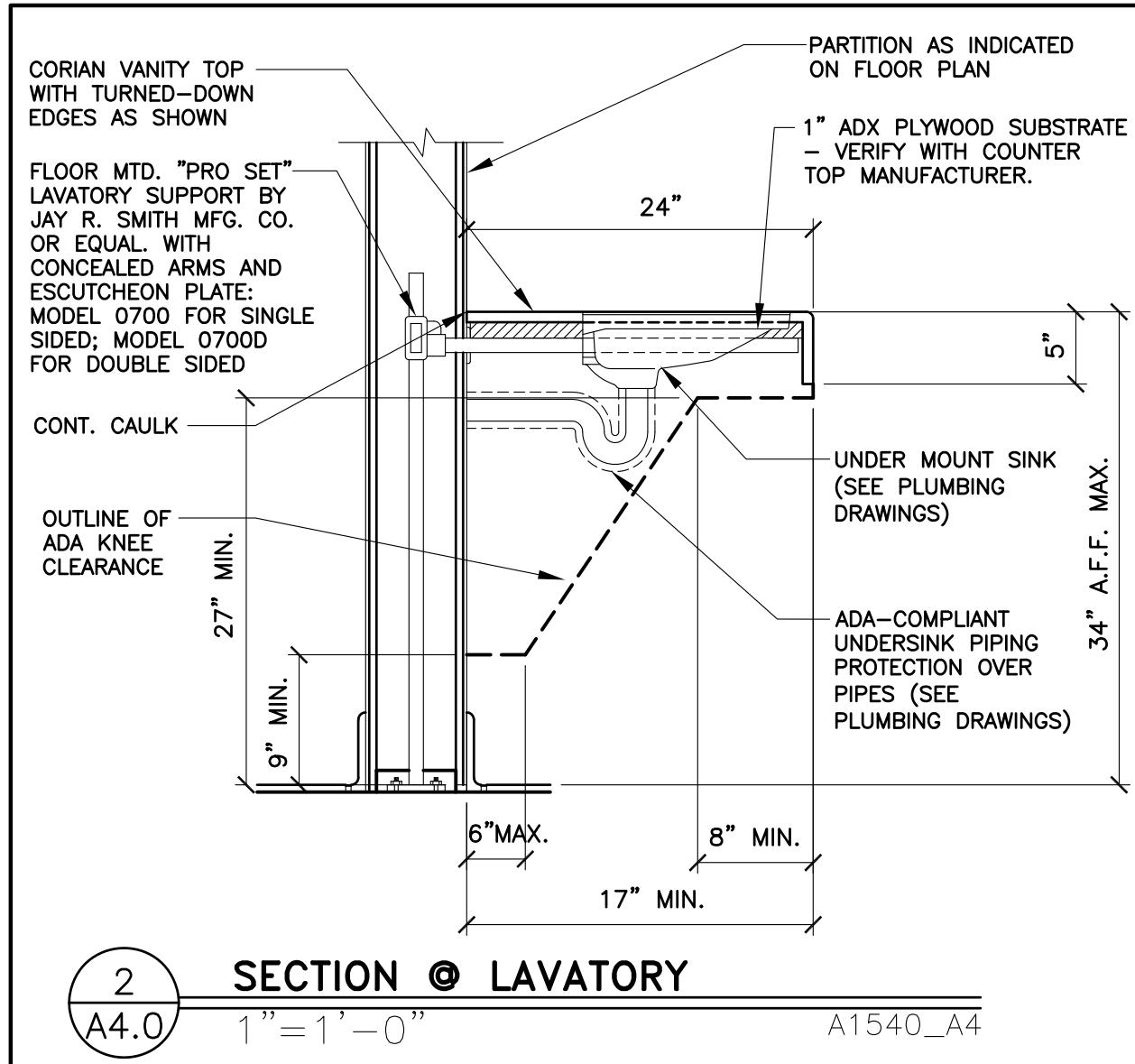
**CT** WALL TILE: CROSSVILLE - COLOR BY NUMBERS  
**B** COLOR: INTUITIVE GRAY. SIZE: 4"x12", PATTERN: RUNNING BOND  
GROUT: MAPEI 02 PEWTER - JOINT TO BE  $\frac{1}{16}$ " MAX.  
USE THIS TILE WHEN HIGH LRV IS REQUIRED

COORDINATE WITH THE McDONALD'S AREA CONSTRUCTION  
MANAGER

**LAM** LAMINATE:  
X—  
COLOR:  
A = IDMB / DIG. MERCH., SMOOTH BLACK PLASTIC LAMINATE BY GC  
B = TRASH/ COND., WHITE PLASTIC LAMINATE BY GC  
C = TRASH/ COND., LAMITECH GRAPHITE K MATTE FINISH BY GC  
D = SEE DECOR DRAWINGS. MFR BY DECOR. PURCHASE AND INSTALL BY GC  
E = McDELIVERY UNDERSCORE, LAMITECH GOLDEN  
F = BASE BOARD, FORMICA COMPACT LAMINATE MATTE BLACK BY GC

## GENERAL NOTES

- ALL WALL LAMINATE PANELING MANUFACTURED BY DECOR PURCHASE AND INSTALL BY GC UNO
  - A&E TO VERIFY LOCATION AND QUANTITY OF LIGHTS AND DIFFUSERS AFTER SERVICE AREA WALL ADDITION



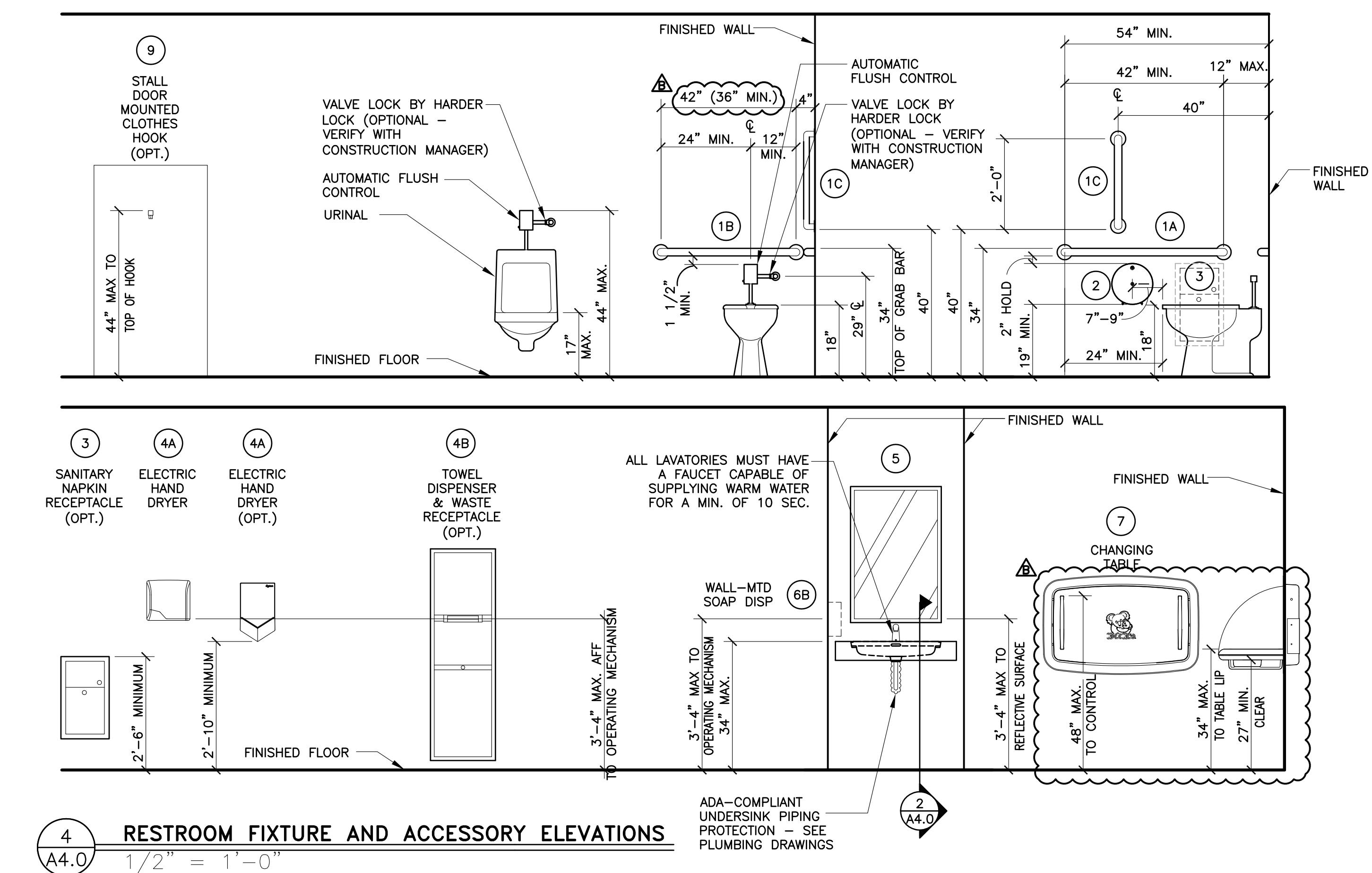
GRAPHICS SHOWN ARE FOR REFERENCE ONLY.  
GC TO PROVIDE ADA SIGNAGE PACKAGE AND INSTALL SIGNS AT LOCATIONS AND POSITIONS INDICATED IN PACKAGE OR AS REQUIRED BY LOCAL CODES. SIGNAGE PACKAGE SUPPLIED BY:

FORREST PERMA-SIGN  
9292 1ST ST. BOX 588  
NEW ROCHELLE, NY 10802  
www.forsigns.com  
1-800-214-8765

SIGNAGE NOTES:

- EACH EXIT DOOR SHALL HAVE A TAUCLE 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.
- WHEN PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, RAISED LETTERS SHALL BE PROVIDED AND SHALL BE ACCOMPANIED BY BRAILLE IN CONFORMANCE WITH CHAPTER 7. SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, INCLUDING AT DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT. MOUNTING HEIGHT SHALL BE 60" ABOVE THE FINISHED FLOOR TO THE CENTERLINE OF THE SIGN. MOUNTING LOCATION SHALL BE DETERMINED SO THAT A PERSON MAY APPROACH WITHIN 3" OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR.

ACCESSIBLE SIGNAGE  
N.T.S.



ITEM (SEE NOTE 2)	MFR MODEL #	SUPPLIER	BACKUP SUPPORT (SEE NOTE 3)
1A 1B 1C	GRAB BAR 42" GRAB BAR 42" GRAB BAR 24"	HUGHES SUPPLY (866) 310-3576 MDCCOORD@HAJOCACOM	(1)2x6 4'-0" LONG CENTER MOUNTED
2	TOILET TISSUE DISPENSER, JUMBO, SURFACE MOUNTED	BRADLEY B-5242	FRAME WALL OPENING PER MANUFACTURER'S RECOMMENDATIONS
3	SANITARY NAPKIN RECEPTACLE, RECESSED (OPTIONAL)	BOBRICK B-354	
4A 4A OPTION	HAND DRYER, ENERGY EFFICIENT MODEL, ADA, ALUMINUM BRUSHED HAND DRYER, ENERGY EFFICIENT MODEL ADA, SPRAYED NICKEL	WORLD DRYER L-971 SlimDri DYSON AIRBLADE V	FRAME WALL OPENING PER MANUFACTURER'S RECOMMENDATIONS
4B 4B OPTION	TOWEL DISPENSER & WASTE RECEPTACLE, COMBINATION, RECESSED (OPTIONAL)	BOBRICK B-3974	HUGHES SUPPLY (866) 310-3576 MDCCOORD@HAJOCACOM
5	MIRROR, CHANNEL FRAME	BOBRICK B-165 2436	
6A 6B	SOAP DISPENSER, COUNTER MOUNTED, 6" SPOUT (OPTIONAL) SOAP DISPENSER, WALL-MOUNTED	BOBRICK B-82216 BOBRICK B-2112	HUGHES SUPPLY (866) 310-3576 MDCCOORD@HAJOCACOM
7 7 OPTION	BABY CHANGING TABLE, HORIZONTAL, RECESSED, ADA COMPLIANT, STAINLESS STEEL BABY CHANGING TABLE, HORIZONTAL, SURFACE MOUNT, ADA COMPLIANT, STAINLESS STEEL	KOALA KARE KB310-SRSE KOALA KARE KB310-SWMM	INSTALL PER MANUFACTURER'S RECOMMENDATIONS
8	DIAPER CONTAINER (OPTIONAL)	-	BY OWNER
9	CLOTHES HOOK	BRADLEY 917	HUGHES SUPPLY (866) 310-3576 MDCCOORD@HAJOCACOM

ITEM	DESCRIPTION	STD ISSUE DATE	REV'D BY	DATE ISSUED	SITE ADDRESS
2019 STANDARD BUILDING - BB20 4597E10-WOOD/WOOD	WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI WOOD ROOF TRUSS FRAMING FIBER CEMENT PANEL/BATTEN/AUPOVIC PANEL/BRICK EXTER. FINISH	2019-11	KO	01/23/20	605 SOUTH 7TH STREET, KANSAS CITY, KS

McDonald's USA, LLC  
DESIGN

12400 ARCHITECTURE & PLANNING,  
LANDSCAPE AVENUE SOUTH,  
BURNSVILLE, MN 55337  
EMAIL: DATARESPONSES.COM  
PHONE: (952) 252-4042  
FAX: (952) 252-4043

PREPARED BY:  
Signature:

1. ALL DIMENSIONS SHOWN ARE TAKEN TO CEMENT BD.  
2. SEE 2/A1.0 FOR PARTITION TYPES  
3. SEE SHEETS A6.0 & A6.1 FOR DOOR AND FINISH SCHEDULES.  
4. SEE 4/A4.0 FOR FIXTURE MOUNTING HEIGHTS  
5. DASHED LINES REPRESENTING CLEAR FLOOR SPACE REQUIREMENTS MUST BE MAINTAINED WITHOUT EXCEPTION. IF CONDITIONS PREVENT ANY CLEAR FLOOR SPACE FROM BEING MAINTAINED, CONTACT THE ARCHITECT FOR RESOLUTION.

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Registration Number: 12/03/20

Date: 12/03/20

Rev: 1

By: Brian Amerson, Architect

<p><b>CLOSURE DETAIL @ COOLER</b> A4.1 1 1/2" = 1'-0"</p>	<p><b>BATTEN TO BRICK TRANSITION</b> A4.1 1 1/2" = 1'-0"</p>	<p><b>DOOR JAMB @ F/C DOOR</b> A4.1 1 1/2" = 1'-0"</p>	<p><b>EXT.DORR JAMB DETAIL</b> A4.1 1 1/2" = 1'-0"</p>	<p><b>CREW WINDOW JAMB DETAIL</b> A4.1 1 1/2" = 1'-0"</p>
<p><b>ORDER WINDOW JAMB DETAIL</b> A4.1 1 1/2" = 1'-0"</p>	<p><b>EXPANSION JOINT DETAILS</b> A4.1 1 1/2" = 1'-0"</p>	<p><b>DETAIL @ COLUMN</b> A4.1 1 1/2" = 1'-0"</p>	<p><b>NOT USED</b> A4.1 -</p>	<p><b>BATTEN TO FIBER CEMENT PANEL TRANSITION</b> A4.1 1 1/2" = 1'-0" 4597 ONLY</p>
<p><b>CORNER DETAIL @ ENTRY</b> A4.1 1 1/2" = 1'-0" 4597 ONLY</p>	<p><b>DETAIL @ COLUMN</b> A4.1 1 1/2" = 1'-0" 4597 ONLY</p>	<p><b>NOT USED</b> A4.1 -</p>	<p><b>NOT USED</b> A4.1 -</p>	<p><b>NOT USED</b> A4.1 -</p>
<p><b>ALUMINUM BATTEN DETAIL</b> A4.1 1/4" = 1'-0"</p>	<p><b>SECTION A: PLAN DETAIL AT BATTENS</b> SCALE: 3'-0" = 1'-0"</p> <p>ALL SUBSTRATE, HAT CHANNELS AND TRIM BY GC.</p>	<p><b>ELEVATION DETAIL AT BATTEN JOINTS</b> SCALE: 1 1/2" = 1'-0"</p> <p>PRIME AND PAINT ALL SIDES AND EDGES PRIOR TO INSTALLING</p>	<p><b>NOT USED</b> A4.1 -</p>	<p><b>NOT USED</b> A4.1 -</p>

I hereby certify that the above specification or drawing was prepared under my direct supervision and control by me, a registered architect, and was filed with the State of Kansas Board of Architecture.

Signature: Brian A. McDonald, AIA  
Date: 01/23/20



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ARCHITECTURE & PLANNING  
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SUITE 100  
BURNsville, MN 55337  
EMAIL: DATA@REPRISEDESIGN.COM  
PHONE: (952) 252-4042  
FAX: (952) 252-4943

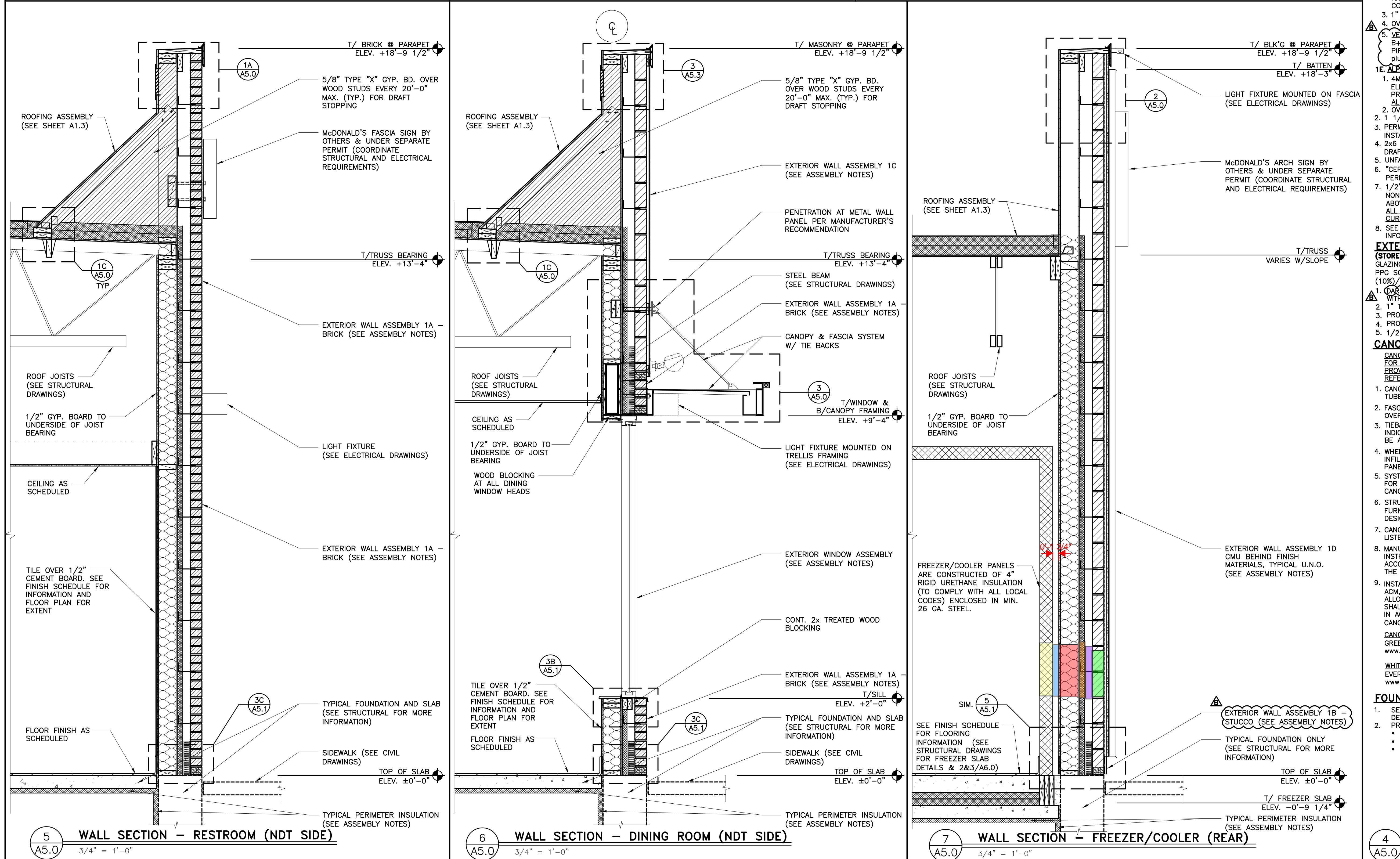
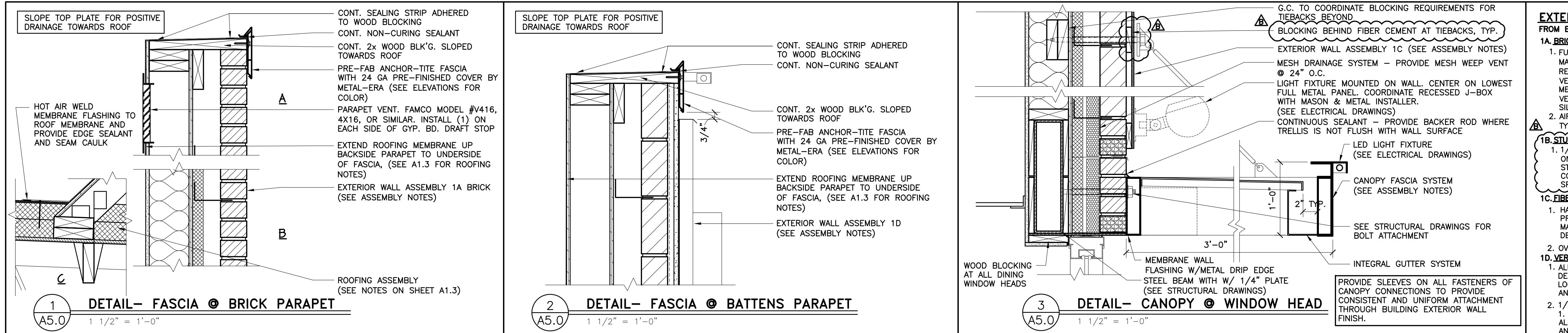
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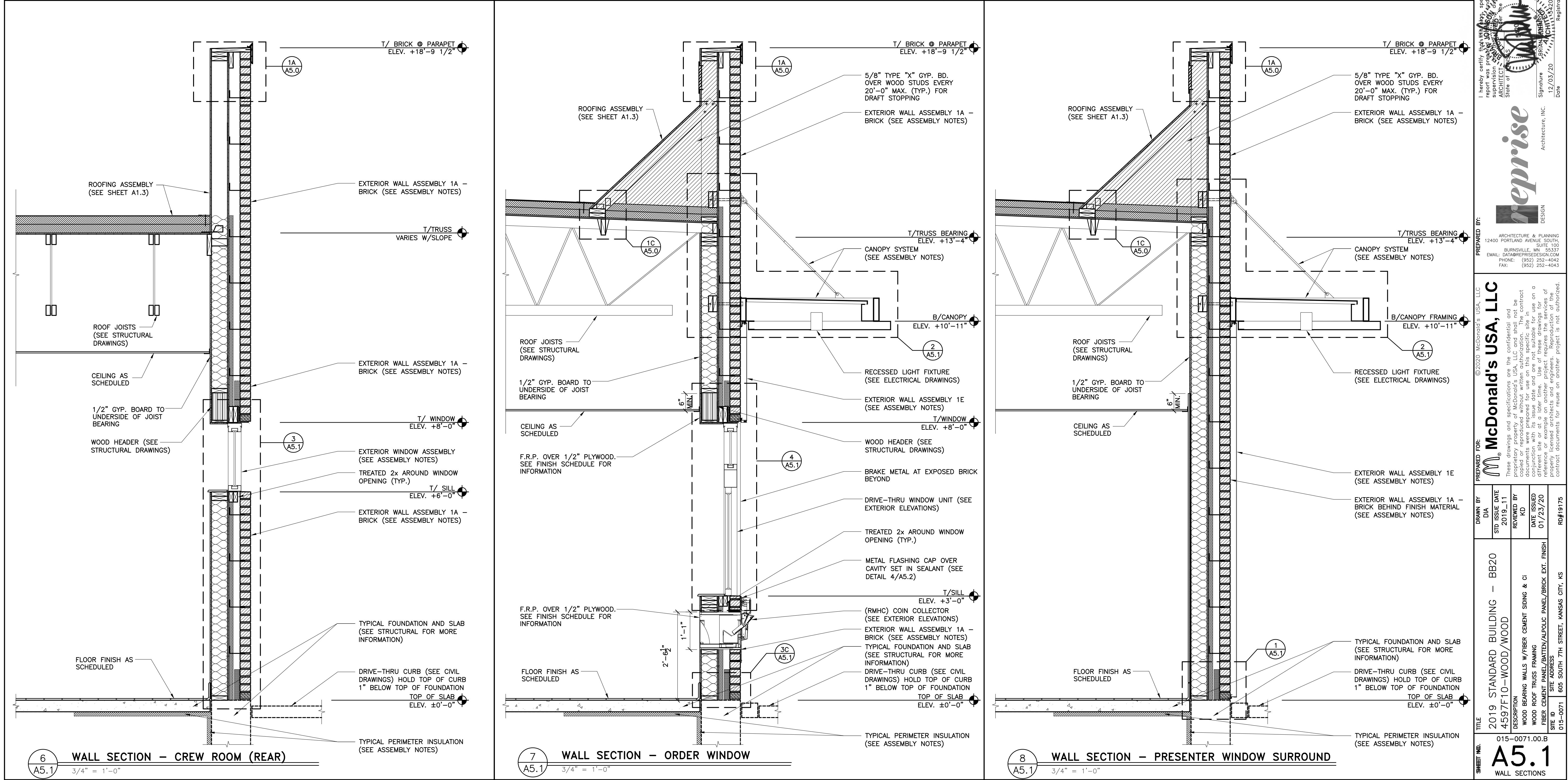
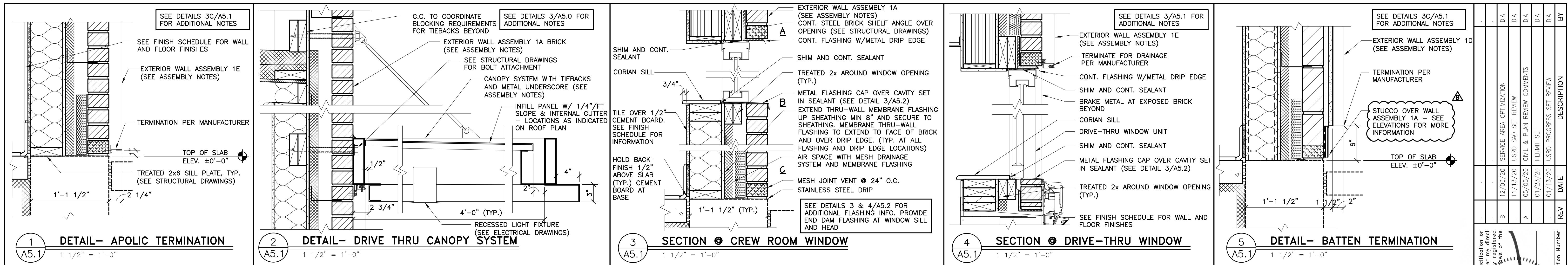
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REVISED BY: KI REVIEWED BY: KO DATE ISSUED: 01/23/20  
RD#19175

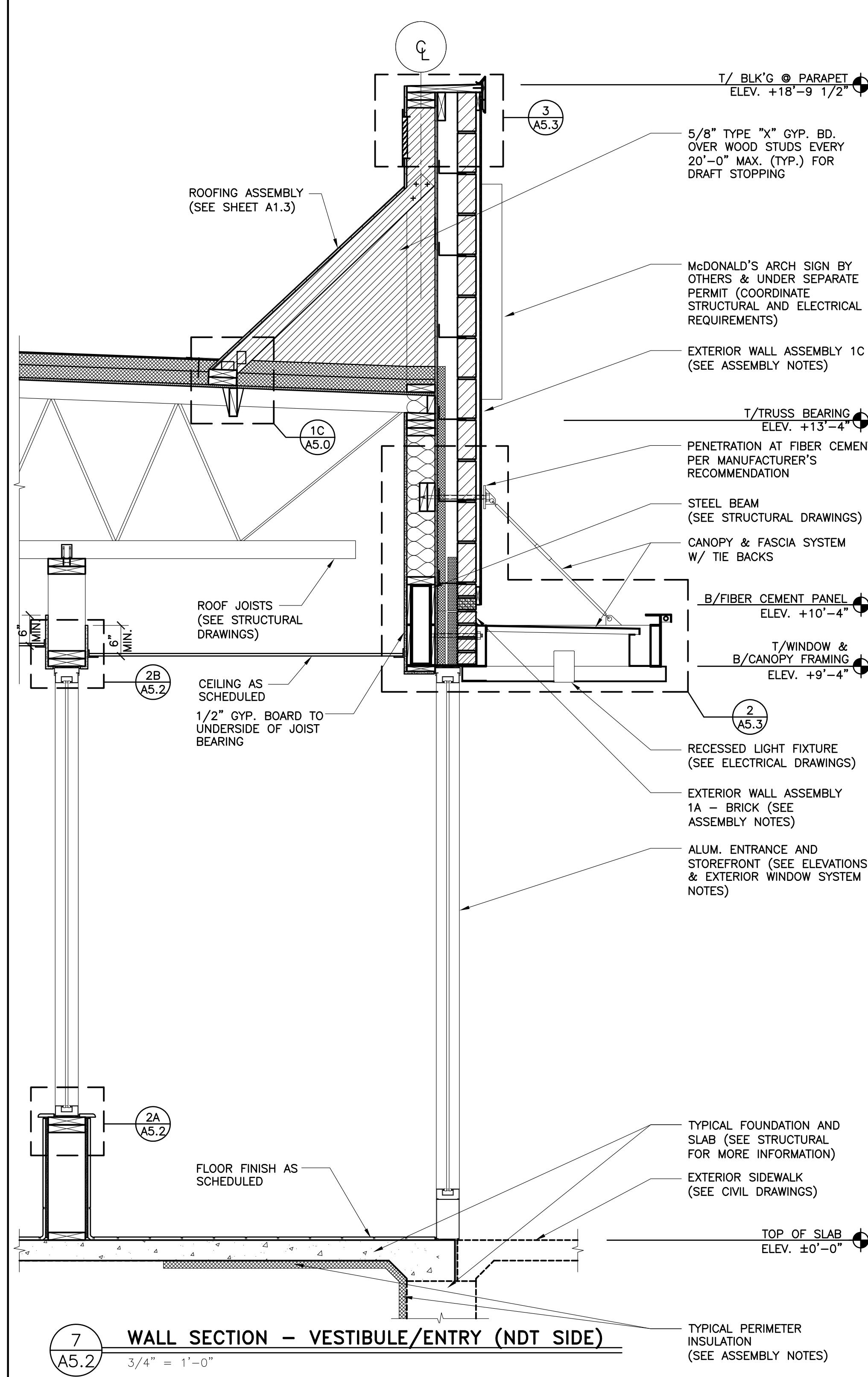
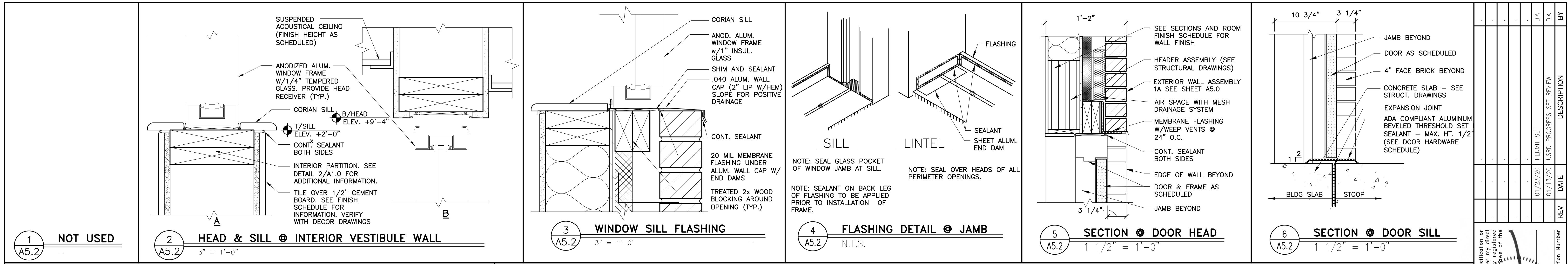
SHEET NO. 015-0071.000  
TITLE: 2019 STANDARD BUILDING - BB20  
DESCRIPTION: 4597F10-WOOD/WOOD  
WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI  
WOOD ROOF TRUSS FRAMING  
FIBER CEMENT PANEL/BATTEN/AUPOIC PANEL/BRICK EXT. FINISH  
SITE ID: 605 SOUTH 7TH STREET, KANSAS CITY, KS  
SITE ADDRESS: 015-0071

**A4.1**  
PLAN DETAILS



SHEET NO.	TITLE	DRAWN BY	REVISED BY	DATE ISSUED	DATE REVISED	BY
015-0071.00.B	2019 STANDARD BUILDING - BB20 459°F10-WOOD/WOOD	DIA STD ISSUE DATE 2019-11 KID	DIA REVIEWED BY KID	01/23/20	01/23/20	REVIEW COMMENTS CIVIL & PLAN REVIEW PERMIT SET PROGRESS SET REVIEW DESCRIPTION WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI WOOD ROOF TRUSS FRAMING FIBER CEMENT PANEL/BATTEN/ALPOLIC PANEL/BRICK EXT. FINISH SITE ID 015-0071 SITE ADDRESS 605 SOUTH 7TH STREET, KANSAS CITY, KS





SHEET NO.	TITLE	DRAWN BY	REVISED BY	DATE ISSUED	DATE REVISED	SITE ADDRESS	BY
A5.2	2019 STANDARD BUILDING - BB20 459-F10-WOOD/WOOD	DIA STD ISSUE DATE 2019-11	KO REVIEWED BY 01/23/20	01/23/20	PERMIT SET 01/13/20	105-0071.000 WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI FIBER CEMENT PANEL/BATTEN/AUPOIC PANEL/BRICK EXT. FINISH 605 SOUTH 7TH STREET, KANSAS CITY, KS	USD PROGRESS SET REVIEW 01/23/20
							DESCRIPTION
							STRUCTURE
							ARCHITECTURE
							DESIGN
							DATA REPRISER DESIGN INC.
							Signature: <i>[Signature]</i> Date: 01/23/20
							Registration Number: 55372
							Date:

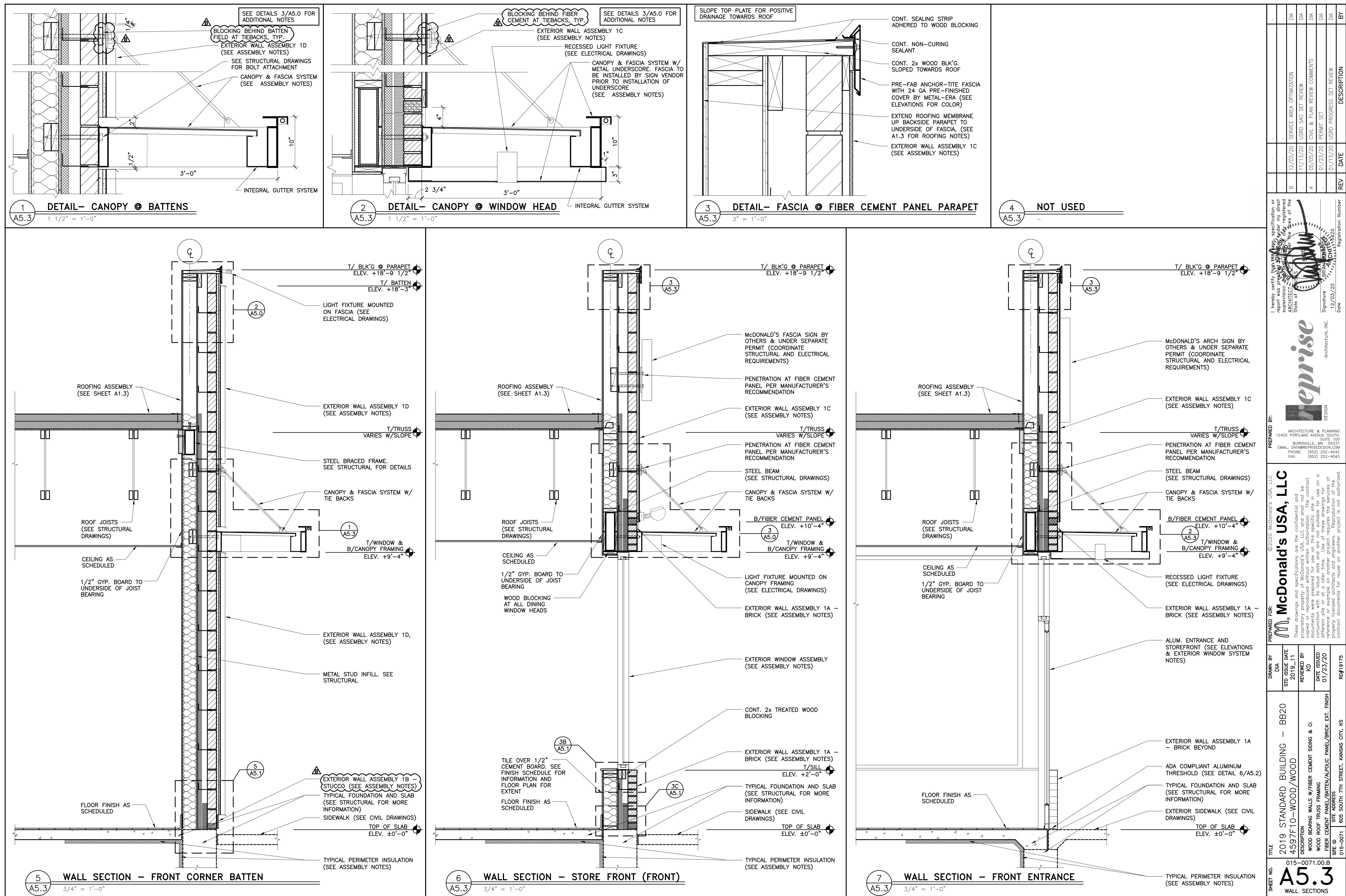
I hereby certify that this drawing, specification or report was prepared under my direct supervision and direction and is the work of the architect(s) listed above. It is my responsibility to see that the drawings are used only in accordance with the terms of the contract.

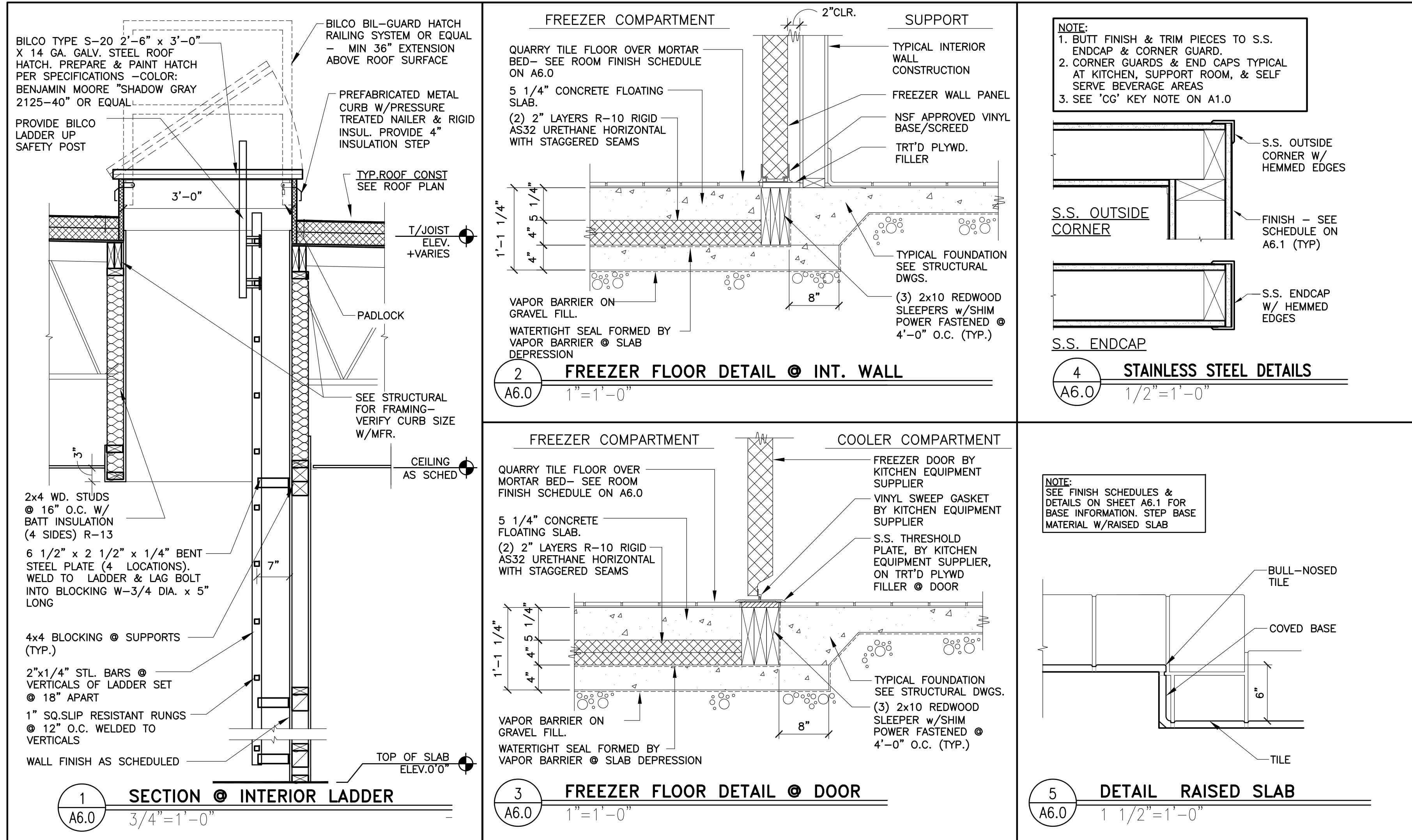
McDonald's USA, LLC  
Architecture, Inc.  
Signature: *[Signature]* Date: 01/23/20

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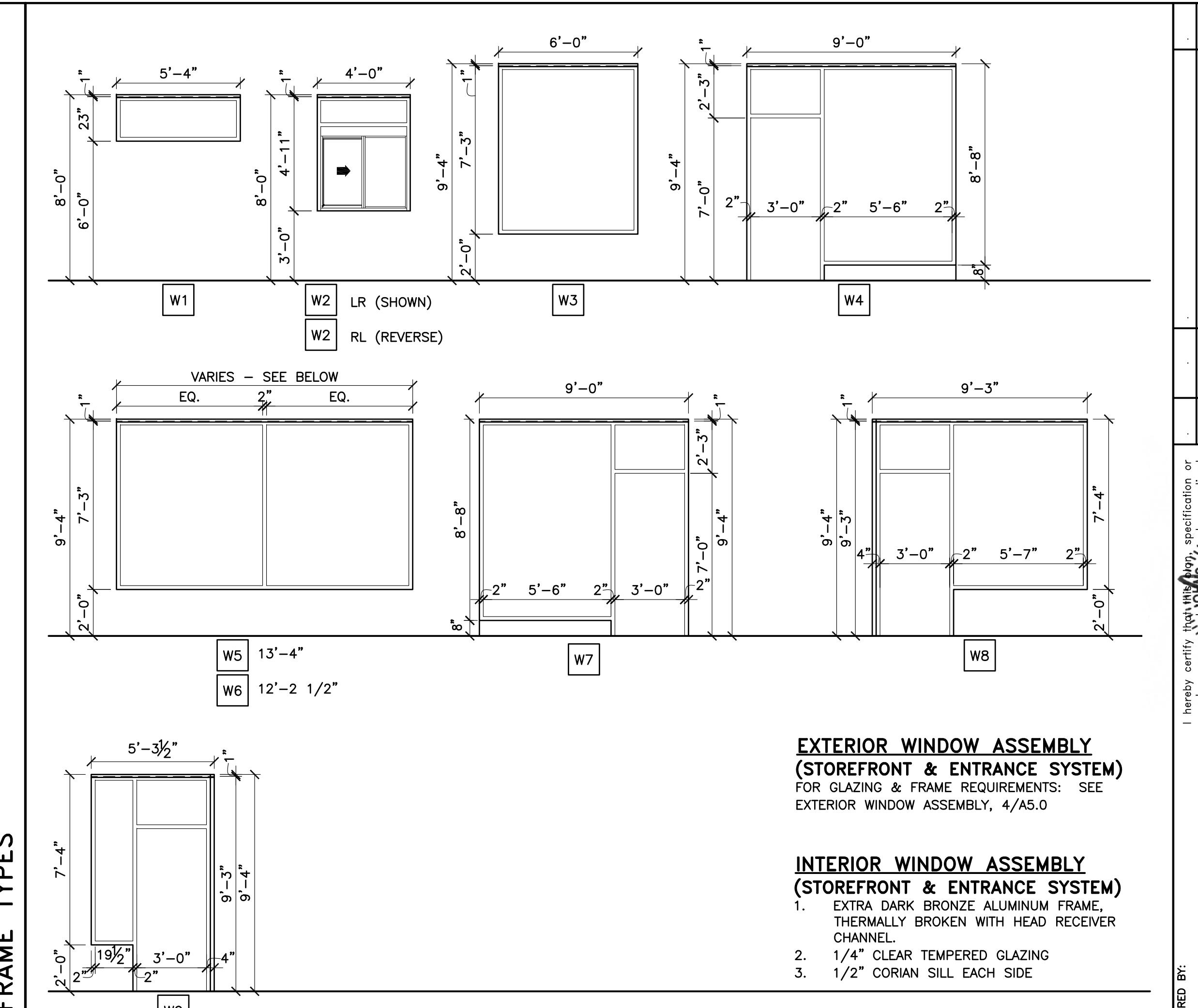




**DOOR HARDWARE**

GENERAL NOTES:

- ALL EXIT DOORS SHALL BE KEYLESS IN THE DIRECTION OF EGRESS.
- THE OPENING FORCE OF ALL EXT. PUSH/PULL DOORS SHALL NOT EXCEED 8 1/2 LBS.
- THE OPENING FORCE OF ALL INTERIOR PUSH/PULL DOORS SHALL NOT EXCEED 5 LBS.
- PROVIDE PANIC HARDWARE FOR ALL EXTERIOR DOORS AS NOTED ON THE DOOR SCHEDULE.
- DOOR HARDWARE SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE.
- DOOR #5 - RESTROOM ENTRY  
1. 3 EA HINGE BB1279 4 1/2 X 4 1/2 US26D HAGER  
2. 1 EA CLOSER LDP4031 SNB ALUM LCN  
3. 1 EA PUSH PLATE 30S 4 X 32 US32D 40° AFF MOUNTED TO CENTER OF PLATE  
4. 1 EA PULL PLATE LADDER PULL HANDLE BY FIXING 32L 1" DIA ALT. OPTION: 1 EA PULLPLATE SANITRASP #5-32-1000 - UMCO 32D, 40° AFF MOUNTED CENTER OF PULL  
5. 1 EA KICKPLATE 1905 4 1/2 X 34 US26D HAGER  
6. 1 EA DOOR STOP 236W US32D HAGER  
7. 1 EA FINGER GRD MKIB PULL SIDE BRN F.SAFE  
8. 1 EA FINGER GRD MKIB PULL SIDE BRN F.SAFE  
9. 1 EA STEPNUL PULL SIDE (OPTIONAL)
- DOOR #1 - #1A - ENTRY DOOR/EMERGENCY EXIT (IA NOT USED)  
1. 1 EA CLOSER LCN 4041 x 18  
2. 3 EA HINGES OFFSET PIVOT ANSI - A-156.4 GRADE 1; PROVIDE EXPOSED PARTS OF ALUMINUM ALLOY AS SUPPLIED BY DOOR MANUFACTURER  
3. 1 EA DOOR #1A ONLY PULL HANDLE ROUGHWOOD MFG. MODEL: RM3301 SIZE: 1-1/4" DIA OTC, 5"-10" FINISH; TO MATCH STOREFRONT DOOR, OFFSET MOUNTING TYPE 1X4D - THRU BOLT HEAVY DUTY  
4. 1 EA PANIC HARDWARE ADAMS RITE MFG. CO. 8800 SERIES WITH OUTSIDE CYLINDER (FINISH TO MATCH STOREFRONT DOOR)  
5. 1 EA THRESHOLD NATIONAL GUARD PRODUCTS, INC. SADDLE TYPE THRESHOLD 325, 36" WIDE X 1/2" RISE (ADA ACCESSIBLE).  
6. 1 EA WEATHER STRIPPING: PROVIDE COMPRESSION WEATHER STRIPPING AGAINST FIXED STOPS. AT OTHER EDGES PROVIDE SLIDING WEATHER STRIPPING RETAINED IN ADJUSTABLE STRIP MORTISED INTO DOOR EDGE. PROVIDE EPDM OR VINYL GASKET WEATHER STRIPPING IN BOTTOM DOOR RAIL ADJUSTABLE FOR CONTACT W/ THRESHOLD.  
7. 1 EA SIGN MOUNT ONTO DOOR, READ "THIS DOOR MUST REMAIN UNLOCKED WHENEVER THE BUILDING IS OCCUPIED/DURING BUSINESS HOURS."
- DOOR #2 - VESTIBULE  
1. 1 EA CLOSER LCN 4041 x 18  
2. 3 EA HINGES OFFSET PIVOT ANSI - A-156.4 GRADE 1; BY DOOR MANUFACTURER.  
3. 1 EA PUSH/PULL HANDLE HAGER PUSH/PULL SET 164D/V/B.
- 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 99750-LD 48" SP28 V.DUPRIN  
4. 1 EA TRIM 990DT US26D V.DUPRIN  
5. 1 EA EXIT ALARM FAX2500 FLUSH DETEX  
6. 1 EA LOCKGUARD CLP110 US32D DON-JO  
7. 1 EA TREADPLATE 24 X 46 UMCO  
8. 1 EA WTH/STP 160V 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 DKB W/FLAP ON INSIDE N.GUARD
- DOOR #3A - FREEZER DELIVERY  
1. 1 EA HINGE 780-112HD 83" ALUM HAGER  
2. 1 EA DEADBOLT B661P 626 SCHLAGE  
3. 1 EA PULL 435C US26 HAGER  
4. 1 EA LOCKGUARD CLP110 US32D DON-JO  
5. 1 EA TREADPLATE 24 X 46 UMCO  
6. 1 EA WTH/STP 160V 48 X 84 N.GUARD  
7. 1 EA THRESHOLD 325HD 48" N.GUARD  
8. 1 EA SWEEP 101VA 48" N.GUARD
- DOOR #4 - REAR EXIT  
1. 1 EA HINGE 780-112HD 83" ALUM HAGER  
2. 1 EA CLOSER 4111 H-CUSH ALUM LCN  
3. 1 EA PANIC 99750-LD 36" SP28 V.DUPRIN  
4. 1 EA TRIM 990DT US26D V.DUPRIN  
5. 1 EA EXIT ALARM FAX2500 FLUSH DETEX  
6. 1 EA LOCKGUARD CLP110 US32D DON-JO  
7. 1 EA TREADPLATE 24 X 34 UMCO  
8. 1 EA WTH/STP 160V 36 X 84 N.GUARD  
9. 1 EA THRESHOLD 325HD 36" N.GUARD  
10. 1 EA SWEEP 101VA 36" N.GUARD  
11. 1 EA VIEW FRAME LVGLFD 9 X 9 DKB W/FLAP ON INSIDE N.GUARD

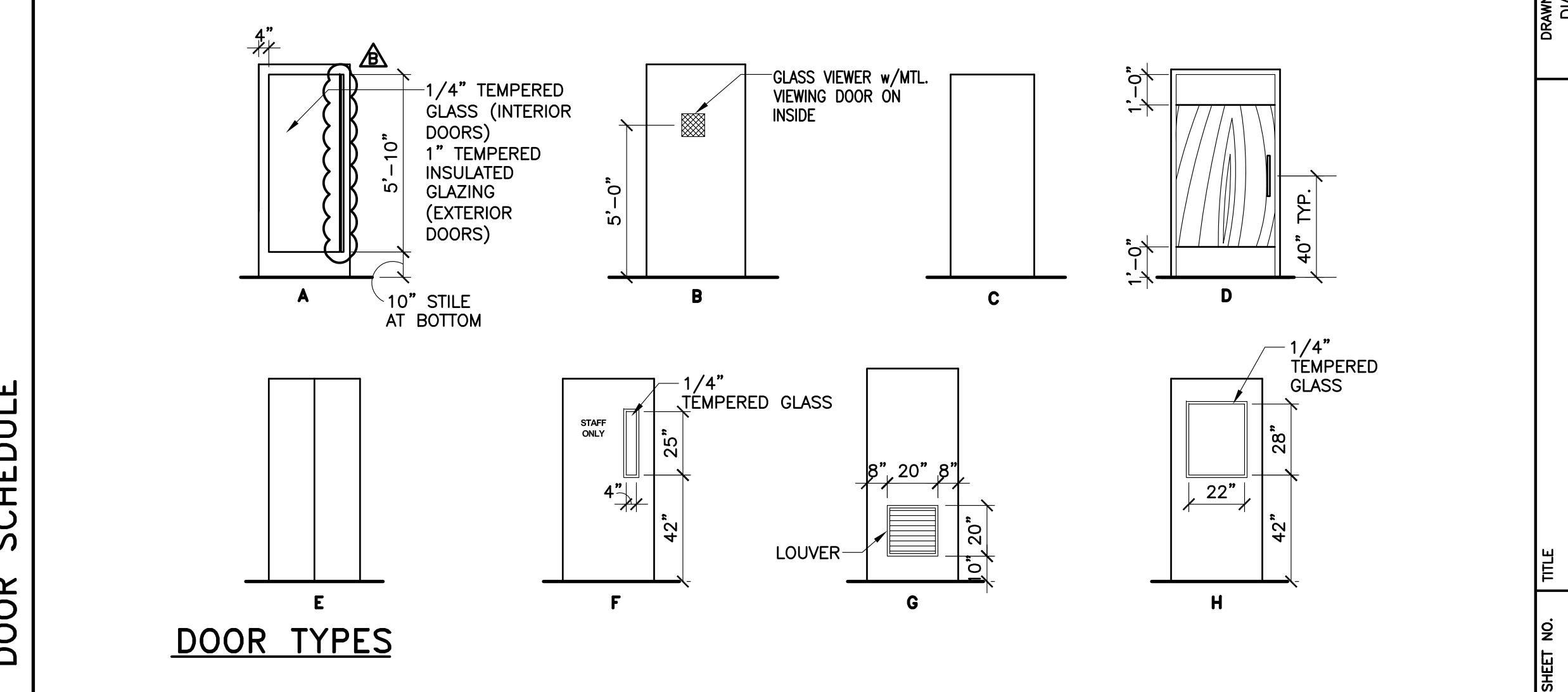


FRAME TYPES

DOOR SCHEDULE					
MARK	DOOR	MATERIAL	SIZE	TYPE	FRAME
1	DOOR #5 - RESTROOM ENTRY	1. ALUM.	3'-0" x 7'-0" x 1 3/4"	A	ALUM. (NOTE 5)
1A		2. ALUM. NOT USED			
2	DOOR #10 CREW	3. ALUM. 3'-0" x 7'-0" x 1 3/4"	B	H.M.	2"JAMB 4"HEAD
3		4. H.M. 4'-0" x 7'-0" x 1 3/4"	C	H.M.	2"JAMB 4"HEAD
3A		5. H.M. 4'-0" x 7'-0" x 1 3/4"	D	H.M.	2"JAMB 4"HEAD
4		6. S.C. WOOD W/ LAM. 3'-0" x 6'-8" x 1 3/4"	E	H.M.	2"JAMB 4"HEAD
5		7. S.C. WOOD W/ LAM. 3'-0" x 6'-8" x 1 3/4"	F	H.M.	2"JAMB 4"HEAD
6		8. S.C. WOOD W/ LAM. 3'-0" x 6'-8" x 1 3/4"	G	H.M.	2"JAMB 4"HEAD
7		9. INSULATED METAL 3'-0" x 6'-6" x 4"	H	N/A	N/A
8		10. H.M. 3'-0" x 7'-0" x 1 3/4"	I	H.M.	2"JAMB 4"HEAD
9			J		
10			K		
11			L		
12			M		
13			N		
14			O		
15			P		
16			Q		

GENERAL DOOR NOTES:

- GC TO INSTALL ACCESSIBILITY DOOR SIGNS WHERE REQ'D BY LOCAL CODES - SEE GENERAL NOTE 6, SHEET A1.0
- DETETX ALARM CONTACT SWITCHES SHALL BE RECESSED INTO THE TOP OF THE DOOR & HOLLOW METAL FRAME ABOVE.
- DOORS, DOOR FRAMES, & HARDWARE FOR DOORS 3, 3A, 4, 5, 6, 7, 8, 8A, 10, 14, 15, 16 SUPPLIED BY: UNIVERSAL MANUFACTURING 1-800-821-1414.
- DOOR 9 SUPPLIED BY FREEZER/COOLER MANUFACTURER
- SEE ELEVATIONS AND WALL SECTIONS
- ALL INTERIOR SOLID CORE WOOD DOORS TO HAVE A LAMINATED FINISH, AS INDICATED PER DECOR DWGS
- DOOR 8 & 8A - LAMINATED FINISH - "WILSONART DOVE GREY" D92-60
- DOOR 3, 3A, 4 & 15 TO HAVE MAXIMUM U VALUE = 0.37



DOOR TYPES

SHEET NO.	TITLE	REV.	DATE	DESCRIPTION
015-0071.00.B	2019 STANDARD BUILDING - BB20	2019_11	12/03/20	WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI
015-0071.00.B	4-59-F10-WOOD/WOOD	KD	05/05/20	WOOD ROOF TRUSS FRAMING
015-0071.00.B	W05 SOUTH 7TH STREET, KANSAS CITY, KS	01/23/20	STAFF ADDRESS	
015-0071.00.B	A6.0	01/13/20	DOOR & HARDWARE	
	DESCRIPTION	BY	REVISION	

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

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REVIEWED BY: **KD**

DATE ISSUED: 01/23/20

DATE REVISED: 01/23/20

REGISTRATION NUMBER: 12/03/20

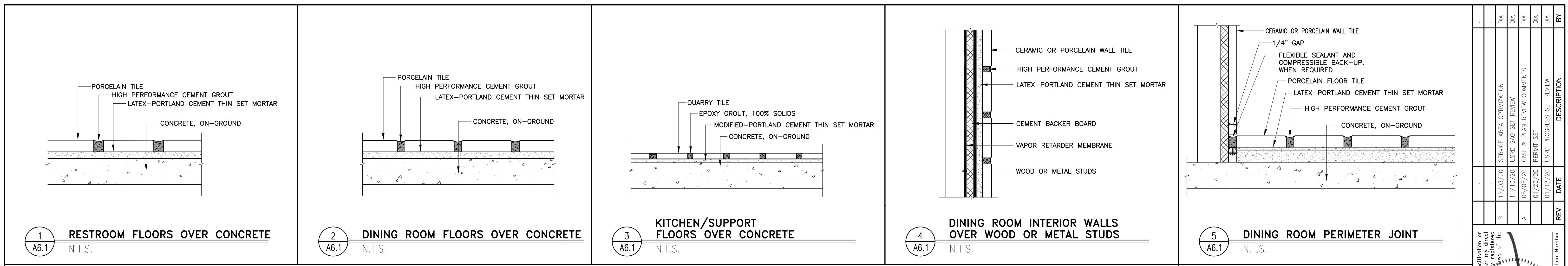
DESIGN: **reprise**

Signature: **BRUNA ARCHITECTURE INC.**

Date: **12/03/20**

Phone: **(952) 252-4042**

Fax: **(952) 252-4943**

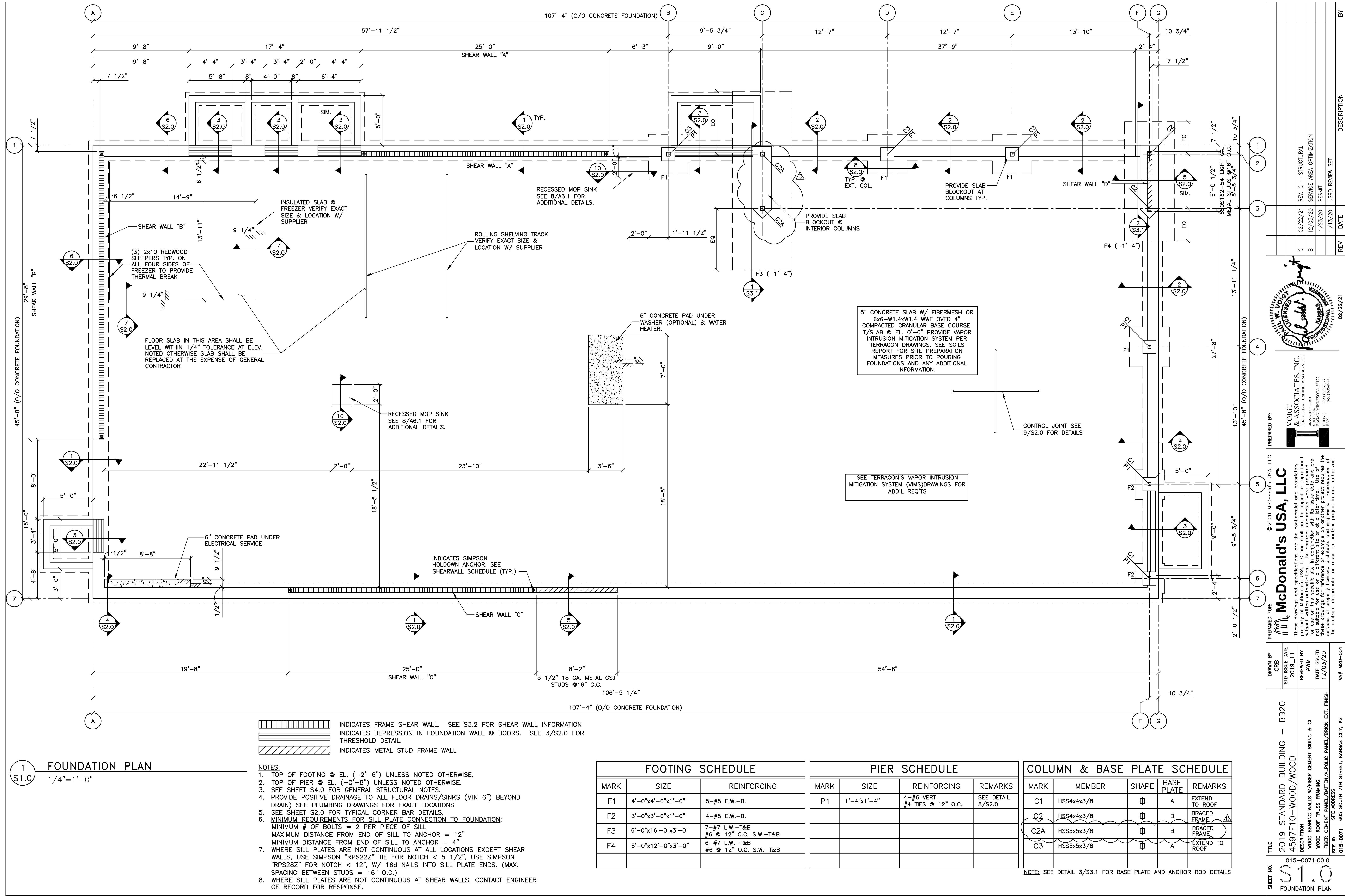


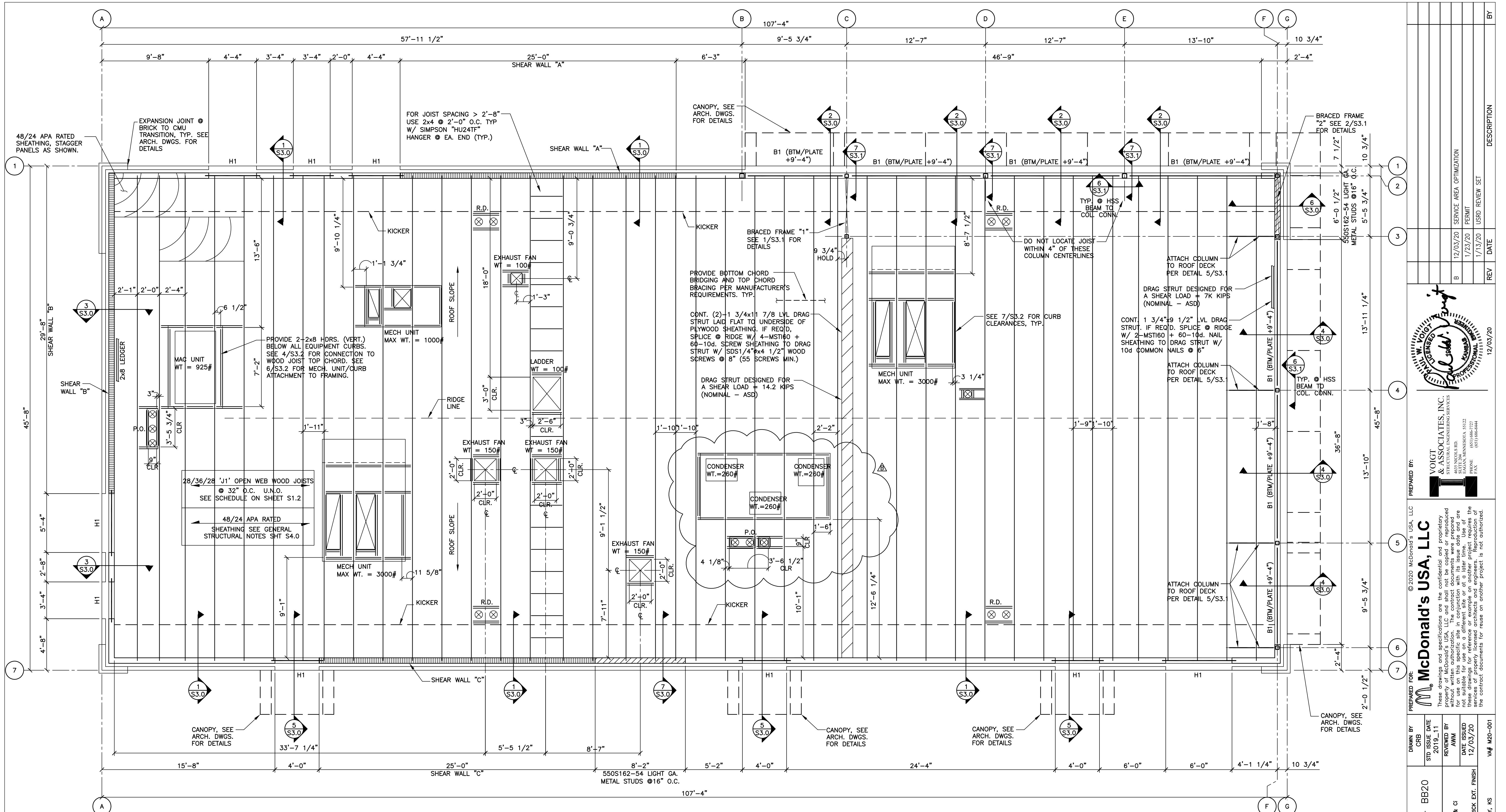
WALL TILE SCHEDULE					
MARK	ROOM NAME	WALL	MORTAR SETTING BED	GROUT	
100	CUSTOMER SERVICE	CERAMIC OR PORCELAIN WALL TILE (NOTE 4C)	LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED)	HIGH PERFORMANCE CEMENT GROUT	GENERAL TILE NOTES: 1. REFERENCE: 2017 MCDONALD'S PROJECT MANUAL - SECTION 093000
101	DINING	CERAMIC OR PORCELAIN WALL TILE (NOTE 4B & 4C)	LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED)	HIGH PERFORMANCE CEMENT GROUT	2. KITCHEN FLOOR TILE: TILE: CROSSVILLE 6"x6" "METROPOLITAN QUARRY BASICS ABRASIVE" GROUT: CHARCOAL #47 BY MAPEI KERAPOXY IEG BLACK #10 BY MAPEI (FOR OPTIONAL GREY TILE) COLOR: PURITAN GRAY EXTRA ABRASIVE 57XA (STANDARD) MAYFLOWER RED 31XA (OPTIONAL) - VERIFY W/ MCDONALD'S ACM
102	WOMEN'S TOILET	CERAMIC OR PORCELAIN WALL TILE (NOTE 4B)	LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED)	HIGH PERFORMANCE CEMENT GROUT	3. DINING ROOM FLOOR TILE: MAIN & ACCENT: USE ONLY APPROVED TILE SERIES AND COLORS BY CROSSVILLE AND EUROWEST. VERIFY COLOR AND PATTERN PER INTERIOR DECOR DRAWINGS. A) MUST BE PER MCDONALD'S USA, LLC: STANDARDS FOR INTERIOR FLOOR TILE AND APPROVED TILE LIST. B) MUST MEET THE FOLLOWING: STATIC COEFFICIENT OF FRICTION (PER ASTM F1667-96) LEVEL SURFACES: MINIMUM 0.50 DRY AND WET (MCDONALD'S STANDARD) DYNAMIC COEFFICIENT OF FRICTION (PER ANSI A137.1 2012) LEVEL SURFACES: MINIMUM 0.5 DRY AND WET (MCDONALD'S STANDARD)
103	MEN'S TOILET	CERAMIC OR PORCELAIN WALL TILE (NOTE 4B)	LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED)	HIGH PERFORMANCE CEMENT GROUT	4. TILE TRANSITION AND EDGE PROTECTION: A) TILE BASE (RESTROOM ONLY): SCHLUTER DILEX-AHK SERIES, BRUSHED STAINLESS STEEL. B) TILE EDGE PROTECTION (WALL TRANSITION): SCHLUTER-RONDEC-DB, SATIN ANODIZED ALUMINUM. C) TILE CORNER PROTECTION (OUTSIDE CORNER): SCHLUTER-RONDEC-AE, SATIN ANODIZED ALUMINUM. D) SEE INTERIOR DECOR DRAWINGS FOR ALL LOCATIONS.
104	SUPPORT	QUARRY TILE (NOTE 2)	COVED QUARRY TILE	MODIFIED-PORTLAND CEMENT THIN SET MORTAR (MEDIUM BED)	BEFORE FINAL INSPECTION, REMOVE PROTECTIVE COVERINGS AND PERFORM FINAL CLEANING.
105	KITCHEN	QUARRY TILE (NOTE 2)	COVED QUARRY TILE	MODIFIED-PORTLAND CEMENT THIN SET MORTAR (MEDIUM BED)	5. TILE CLEANER: DETERDEK, BY FILA SURFACE CARE PRODUCTS - NO SUBSTITUTIONS ALLOWED CAN BE ORDERED BY EUROWEST, CROSSVILLE, OR DIRECT FROM MANUFACTURER: FILA/DETREK POST INSTALLATION CLEANING REQUIRED ON ALL FLOOR TILE INSTALLATIONS PRIOR TO RESTAURANT TURN OVER.
106	PRESENTER-1	QUARRY TILE (NOTE 2)	COVED QUARRY TILE	MODIFIED-PORTLAND CEMENT THIN SET MORTAR (MEDIUM BED)	APPLY CLEANER PER MANUFACTURER'S WRITTEN INSTRUCTIONS. REFERENCE: MCDONALD'S PROJECT MANUAL - SECTION 09300 TILING INTERIOR.
107	ORDER	QUARRY TILE (NOTE 2)	COVED QUARRY TILE	MODIFIED-PORTLAND CEMENT THIN SET MORTAR (MEDIUM BED)	6. GROUT COLOR AND MANUFACTURER AS INDICATED ON SHEET A1.0 AND INTERIOR DECOR DRAWINGS.
108	MANAGER'S AREA	QUARRY TILE (NOTE 2)	COVED QUARRY TILE	MODIFIED-PORTLAND CEMENT THIN SET MORTAR (MEDIUM BED)	
109	CREW ROOM	QUARRY TILE (NOTE 2)	COVED QUARRY TILE	MODIFIED-PORTLAND CEMENT THIN SET MORTAR (MEDIUM BED)	
110	COOLER	QUARRY TILE (NOTE 2)	4" ALUM. COVED BASE	MODIFIED-PORTLAND CEMENT THIN SET MORTAR (MEDIUM BED)	
111	FREEZER	QUARRY TILE (NOTE 2)	4" ALUM. COVED BASE	MODIFIED-PORTLAND CEMENT THIN SET MORTAR (MEDIUM BED)	
112	COMPUTER CLOSET	QUARRY TILE (NOTE 2)	COVED QUARRY TILE	MODIFIED-PORTLAND CEMENT THIN SET MORTAR (MEDIUM BED)	
113	CREW ALCOVE	QUARRY TILE (NOTE 2)	COVED QUARRY TILE	MODIFIED-PORTLAND CEMENT THIN SET MORTAR (MEDIUM BED)	
114	JANITOR'S CLOSET	PORCELAIN FLOOR TILE (NOTE 3)	COVED QUARRY TILE	LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED)	
115	VESTIBULE	PORCELAIN FLOOR TILE (NOTE 3)	NONE - WALL TILE	LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED)	
116	PRESENTER-2	PORCELAIN FLOOR TILE (NOTE 2)	COVED QUARRY TILE	MODIFIED-PORTLAND CEMENT THIN SET MORTAR (MEDIUM BED)	
117	CO2	N/A - SEE ROOM FINISH SCHEDULE	---	---	

ROOM FINISH SCHEDULE					
MARK	ROOM NAME	WALLS	CEILING *	REMARKS	
100	CUSTOMER SERVICE	CEMENT BOARD	TILE **	SEE DECOR DRAWINGS, TILE AS NOTED ON A1.0	GENERAL FINISH NOTES: 1. ALL FINISH SURFACES OF WALL AND CEILING MATERIALS SHALL BE CLASS B AND SHALL HAVE A FLAME SPREAD RATING OF 26 TO 75 AND A SMOKE DENSITY OF 450 MAX. (PER IBC TABLE 803.9). 2. DECORATIVE MATERIALS SHALL BE FLAME RETARDANT AND MEET THE CRITERIA OF NFPA 701. 3. DECORATIVE MATERIAL SHALL NOT CONCEAL EXITS, EXIT LIGHTS, ALARM STATIONS, HOSE CABINETS, AND EXTINGUISHER LOCATIONS. 4. WHEN BUILDING TYPE IS A NON-COMBUSTIBLE CATEGORY, ALL PLYWOOD SHALL BE FIRE RETARDANT TREATED. 5. A. FRP OVER CEMENT BD BEHIND 3-COMP SINK TO HGT OF BACK SPASH. B. TILE WAINTSCOT TO 6' A.F.F. OVER CEMENT BD. OVER EXT GRADE PLYWOOD (NOTE 4) AT MOP SINKS 6. PROVIDE CEMENT BOARD BACKER OR EQUIVALENT AT ALL TILE LOCATIONS. 7. PROVIDE VAPOR BARRIER BEHIND PLYWOOD AT WALLS AND BEHIND GYP. AT CEILING * SEE CEILING PLAN FOR HEIGHTS & LAYOUTS ** WVC ON EXTERIOR WALL ASSEMBLIES TO BE PERFORATED
101	DINING	CEM BD/GYP BD	TILE/V.W.C. **	SEE DECOR DRAWINGS FOR EXTENT	
102	WOMEN'S TOILET	CEMENT BOARD	TILE	SEE DECOR DRAWINGS FOR EXTENT	
103	MEN'S TOILET	CEMENT BOARD	TILE	SEE DECOR DRAWINGS FOR EXTENT	
104	SUPPORT	1/2" PLYWD (NOTE 4)	FRP	STAINLESS STEEL CORNERS	SEE SHEET A1.0 FOR EXTENT OF CEMENT BOARD, SS OR CT
105	KITCHEN	1/2" PLYWD (NOTE 4)	FRP	STAINLESS STEEL CORNERS, TILE OVER CEM BD AS NOTED ON A1.0	
106	PRESENTER-1	CEM BD, 1/2" PLYWD (NOTE 4)	TILE	TILE AS NOTED ON A1.0	
107	ORDER	1/2" PLYWD (NOTE 4)	FRP	2'x2' VINYL-FACED LAY-IN	
108	MANAGER'S AREA	1/2" PLYWD (NOTE 4)	FRP	2'x2' VINYL-FACED LAY-IN	
109	CREW ROOM	CEM BD/GYP BD	TILE/V.W.C. **	2'x2' ACOUST. LAY-IN	
110	COOLER	N/A	PRE-FAB METAL SKIN PANEL	SEE DECOR DRAWINGS FOR EXTENT	
111	FREEZER	N/A	PRE-FAB METAL SKIN PANEL	PRE-FAB METAL SKIN PANEL	
112	COMPUTER CLOSET	1/2" PLYWD (NOTE 4)	FRP	PRE-FAB METAL SKIN PANEL	
113	CREW ALCOVE	1/2" PLYWD (NOTE 4)	FRP	PAINTED GYP. BD.	SEE SHEET A1.0 FOR EXTENT OF CEMENT BOARD, SS OR CT
114	JANITOR'S CLOSET	1/2" PLYWD (NOTE 4)	FRP	PAINTED GYP. BD.	EXT GRADE PLYWOOD (NOTE 4) SEE NOTE 5B
115	VESTIBULE	CEM BD/GYP BD	TILE/V.W.C. **	2'x2' ACOUST. LAY-IN WITH HOLD DOWN CLIPS	OPTIONAL PEDIMAT. SEE DETAIL 7/A6.1. VERIFY WITH MCD CONSTRUCTION MANGER
116	PRESENTER-2	CEM BD, 1/2" PLYWD (NOTE 4)	TILE	2'x2' VINYL-FACED LAY-IN	
117	CO2	1/2" PLYWD (NOTE 4)	FRP	PAINTED GYP. BD.	EXT GRADE PLYWOOD (NOTE 4) SEE NOTE 7

I hereby certify that this drawing, specification or  
report was prepared under my direct  
supervision and control and in accordance with  
the laws of the State of Michigan.

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STD ISSUE DATE:	12/03/20
REVISED BY:	KO
DATE ISSUED:	01/23/20
SITE ID:	605 SOUTH 7TH STREET, KANSAS CITY, KS 015-0071
DESCRIPTION:	2019 STANDARD BUILDING - BB20 459710-WOOD/WOOD
NOTE:	SEE A1.0 FOR PARTITION TYPE AND ROOM FINISH SCHEDULE FOR WALL FINISH
SEE PLUMBING DRAWINGS FOR DRAIN SPECIFICATION	
PRE-FAB MOP SINK BY ADVANCE TABCO AVAILABLE AS AN ALTERNATE OPTION. SEE P4.1 WHERE PRE-FAB MOP SINK USED. (DEPTH TO BE 8-7/8" TO ACCOMMODATE FACTORY BUILT MOP SINK DIMENSIONS.)	
8 MOP SINK	
A6.1	1 1/2" = 1'-0"
SHEET NO.	015-0071.00.B
FINISH SCHEDULES	A6.1





## 1 FRAMING PLAN

1/4" = 1' - 0

 INDICATES METAL STUD FRAME WALL

#### NOTES:

- NOTES:

  1. SEE SHEET S4.0 FOR GENERAL STRUCTURAL NOTES.
  2. R.D.: ROOF DRAINS
  3. P.O.: ROOF CURB PORTAL OPENING – COORDINATE WITH MECHANICAL DRAWINGS.
  4. WHEN TOP PLATES ARE NOT CONTINUOUS, USE SIMPSON "RPS22" TIE FOR NOTCH < 5 1/2", USE SIMPSON "RPS28" TIES FOR NOTCH < 12", W/ 16d NAILS INTO TOP PLATE ENDS. (MAX. SPACING BETWEEN STUDS = 16" O.C.)
  5. TOP PLATE SPLICING SHALL BE MINIMUM LENGTH OF 48" WITH 2 ROWS (2 1/2" APART) OF 6-16d COMMON NAILS SPACED @ 2" ON CENTER (12 TOTAL).
  6. SEE 2/S4.0 FOR VENEER TIES REQUIREMENTS.
  7. SEE 5/S3.2 FOR SNOW DRIFT DIAGRAM.

BEAM SCHEDULE				
MARK	MEMBER	SHAPE	SUPPORT	REMARKS
B1	HSS16x4x1/4 LLV + 5/16" PLATE	I	1/2" END PLATE	SEE DETAIL 6/S3.1

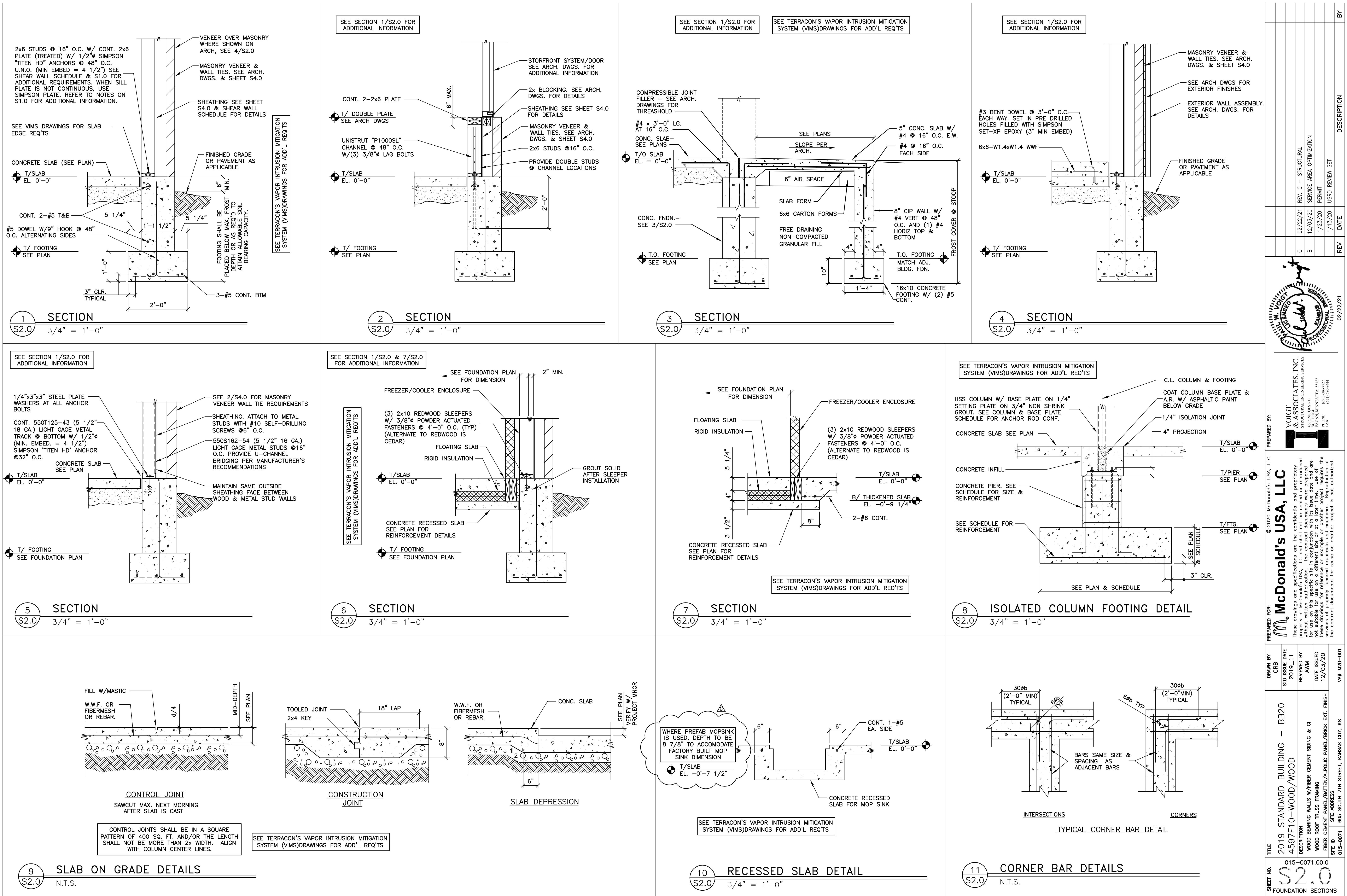
HEADER SCHEDULE			
MARK	MEMBER	SHAPE	BEARING
H1	5 1/4" x 9 1/2" LVL + L5x3 1/2x5/16 LLV	XL	SEE DETAIL 2/S3.2 6" @ BRG. ANGLE

JOIST SCHEDULE			
ARK	LIVE/ROOF SNOW LOAD	DEPTH	MANUFACTURER & SERIES
J1	20/20	28"/36"/28"	REDBUILT "RED-S"

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

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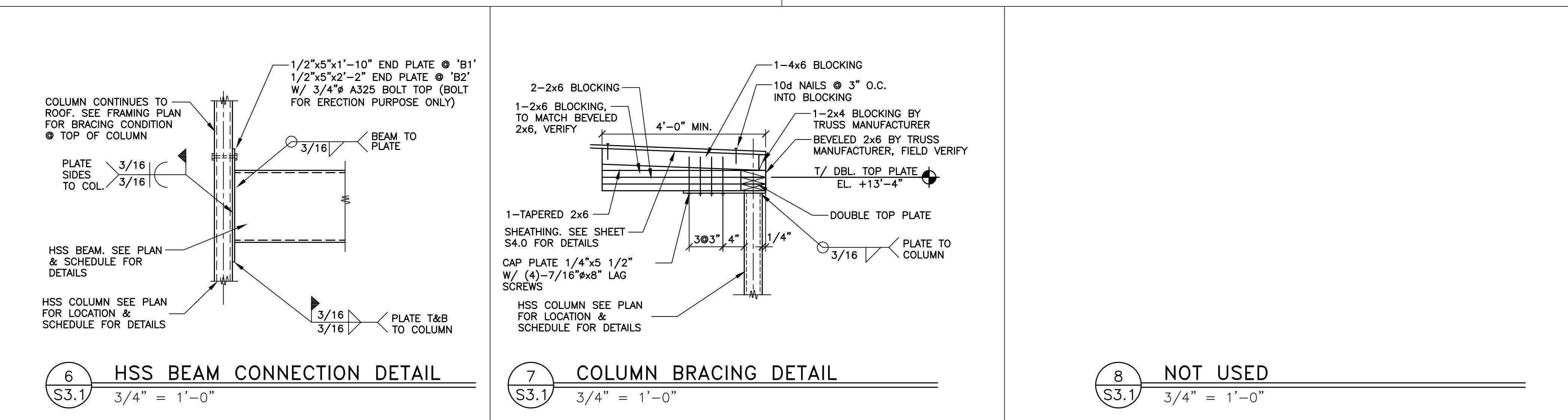
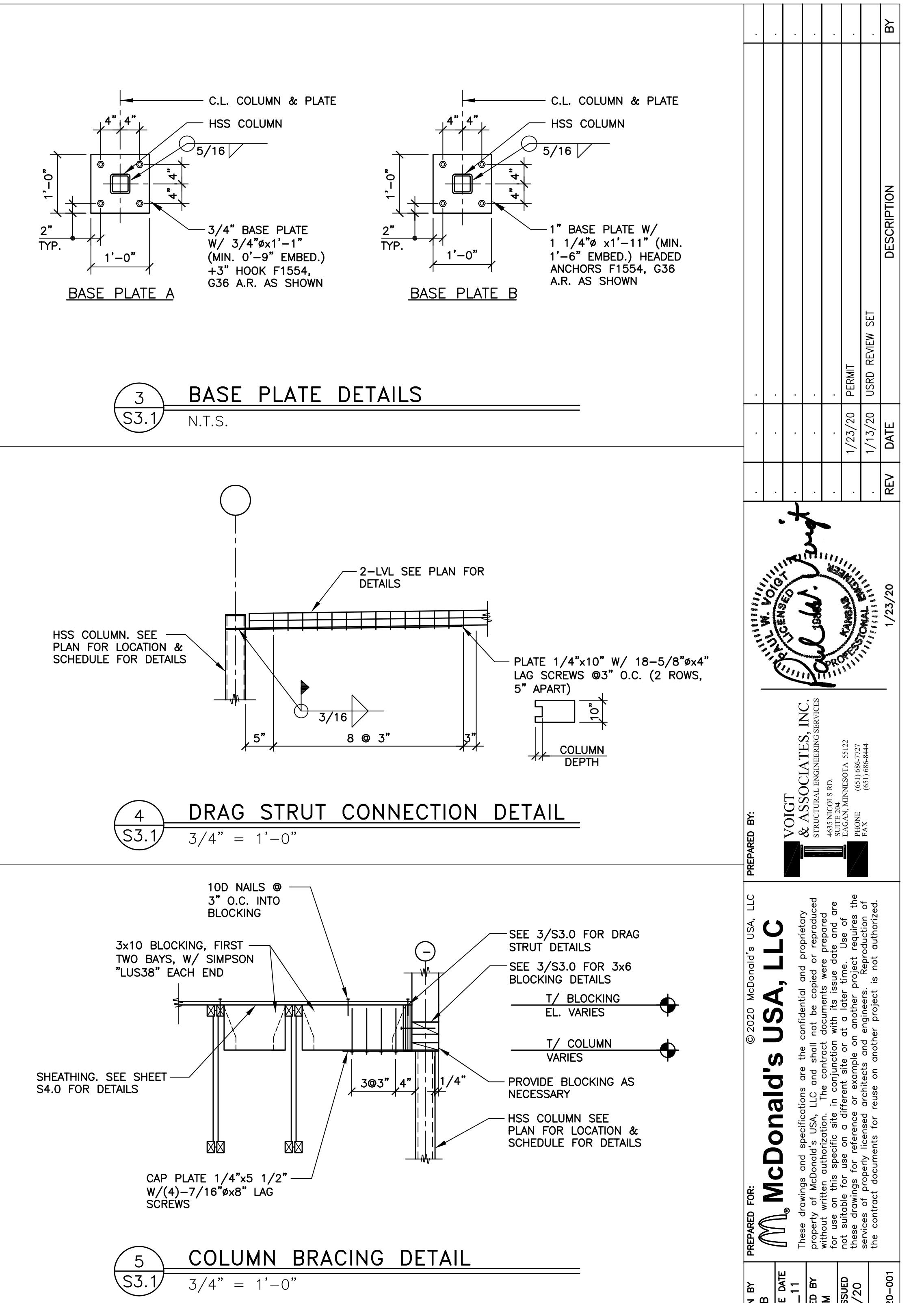
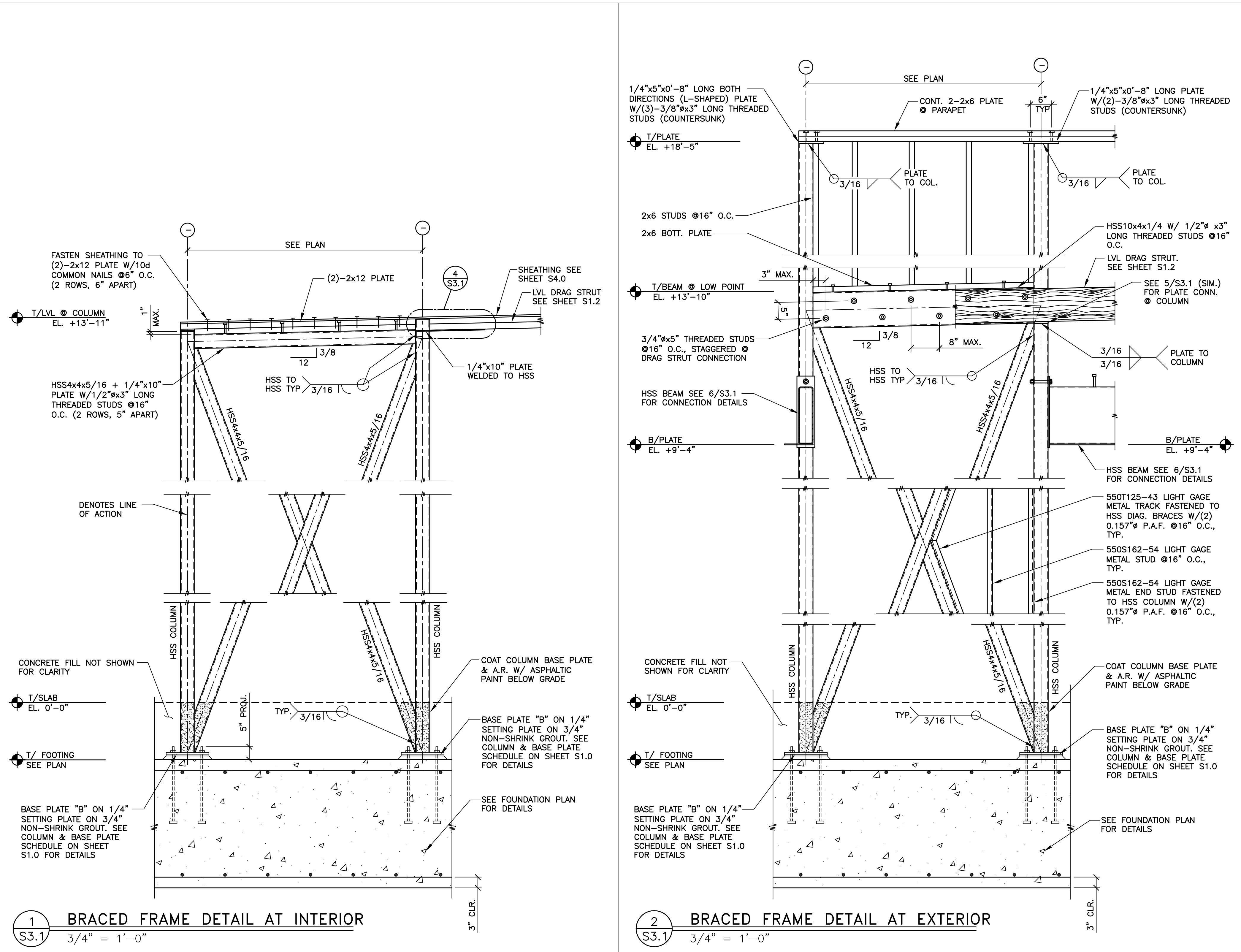
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SHEET NO.	TITLE	DRAWN BY	PREPARED BY:
015-0071.00.0	2019 STANDARD BUILDING - BB20 459-7F10-WOOD/WOOD	CRB	VOIGHT & ASSOCIATES, INC. STRUCTURAL ENGINEERING SERVICES 4035 NICOLIS RD. ELLIPTICAL MINNESOTA A 58122 (651) 686-2722 (651) 686-4444
	DESCRIPTION	STD ISSUE DATE	REVISED BY
1	SECTION S3.0	3/4" = 1'-0"	1/23/20 PERMIT
2	SECTION S3.0	3/4" = 1'-0"	1/13/20 USD/R/REVIEW SET
3	SECTION S3.0	3/4" = 1'-0"	1/23/20 REV DATE
4	SECTION S3.0	3/4" = 1'-0"	1/23/20 BY
5	SECTION S3.0	3/4" = 1'-0"	1/23/20
6	SECTION S3.0	3/4" = 1'-0"	1/23/20
7	SECTION S3.0	3/4" = 1'-0"	1/23/20
1	 SECTION S3.0 3/4" = 1'-0"	<p>SEE SECTION 1/S3.0 FOR ADDITIONAL INFORMATION</p> <p>CONT 2x BRACING SEE ARCH. DWGS. FOR DETAILS SHEATHING SEE SHEET S4.0 FOR DETAILS SIMPSON "A34" FRAMING ANCHOR @ EACH BRACE CONT. 2x6 W/ #10x3" SCREWS @ 6" O.C. INTO BLOCKING 10d @ 6" O.C. WOOD JOIST SEE PLAN FOR LOCATION &amp; SCHEDULE ON SHEET S1.2 FOR DETAILS SHEATHING SEE SHEET S4.0 2x4 BRACE @ 16" O.C. CONT. 2x6 W/ #10x3" SCREWS @ 6" O.C. INTO BLOCKING 3x8 (OR 2-2x8) BLOCKING BETWEEN STUDS @ SIGN CONNECTION. CONNECT EACH END WITH 2- "A34" SIMPSON ANGLES SIMPSON "H3" @ 16" O.C. CONT. 2x6 PLATE FASTEN SHEATHING TO CONT. VERTICAL BLOCKING W/ 10d COMMON NAILS @ 6" O.C. CONT. 2x4 VERTICAL BLOCKING FASTEN CONT. VERT. BLOCKING TO HORIZ. BLOCKING W/ 10d COMMON NAILS @ 6" O.C. T/DBL. TOP PL. EL. +13'-4" BEVELED PLATE BY REBUILT CONT. 2x6 PLATE 2x6 STUDS @ 16" O.C. (1 STUD UNDER EACH JOIST) SHEATHING SEE SHEET S4.0 &amp; SHEAR WALL SCHEDULE FOR DETAILS 2x6 BLOCKING BETWEEN JOISTS W/ SIMPSON "LB26" HANGERS @ EACH END ("LB28" FOR 2x8) HORZ. BLOCKING BETWEEN TRUSSES FASTEN HORZ. BLOCKING TO CONT. PLATE W/ 10d COMMON NAILS @ 6" O.C. MASONRY VENEER &amp; WALL TIES SEE ARCH. DWGS &amp; SHEET S4.0</p>	
2	 SECTION S3.0 3/4" = 1'-0"	<p>SEE SECTION 1/S3.0 FOR ADDITIONAL INFORMATION</p> <p>T/ PARAPET SEE ARCH. DWGS. SHEATHING SEE SHEET S4.0 &amp; SHEAR WALL SCHEDULE FOR DETAILS MASONRY VENEER &amp; WALL TIES SEE ARCH. DWGS &amp; SHEET S4.0 SEE ARCH. DWGS FOR EXTERIOR FINISHES FASTEN SHEATHING TO LEDGER W/ 10d @ 6" O.C. WOOD JOIST SEE PLAN FOR LOCATION &amp; SCHEDULE ON SHEET S1.2 FOR DETAILS SHEATHING SEE SHEET S4.0 FOR DETAILS 2x6 STUDS @ 16" O.C. SIMPSON "H3" @ EACH STUD ATOP SHEATHING, MIN 2 1/2" NAILS THRU SHEATHING 3/8"x6" LAG SCREWS @ 16" O.C. W/ 3x6 BLOCKING T/JOIST EL. VARIES MASONRY VENEER &amp; WALL TIES SEE ARCH. DWGS &amp; SHEET S4.0</p>	
3	 SECTION S3.0 3/4" = 1'-0"	<p>SEE SECTION 1/S3.0 FOR ADDITIONAL INFORMATION</p> <p>CONT 2x BRACING SEE ARCH. DWGS. FOR DETAILS SHEATHING SEE SHEET S4.0 FOR DETAILS 2x6 STUDS @ 16" O.C. SIMPSON "H3" @ EACH STUD ATOP SHEATHING, MIN 2 1/2" NAILS THRU SHEATHING 3/8"x6" LAG SCREWS @ 16" O.C. W/ 3x6 BLOCKING T/JOIST EL. VARIES MASONRY VENEER &amp; WALL TIES SEE ARCH. DWGS &amp; SHEET S4.0</p>	
4	 SECTION S3.0 3/4" = 1'-0"	<p>SEE SECTION 2/S3.0 &amp; 3/S3.0 FOR ADDITIONAL INFORMATION</p> <p>SEE SECTION 1/S3.0 FOR ADDITIONAL INFORMATION</p> <p>FASTEN SHEATHING TO DRAG STRUT W/ 10d COMMON NAILS @ 6" O.C. 3x6 BLOCKING BETWEEN STUDS T/JOIST EL. VARIES 3/8"x6" LAG SCREWS @ 16" O.C. CONT. LVL DRAG STRUT. SEE PLAN FOR SIZE &amp; SPLICE REQUIREMENTS CONT 2x6 PLATE T/ PARAPET SEE ARCH. DWGS. 3x8 (OR 2-2x8) BLOCKING BETWEEN STUDS AT TRELLIS/CANOPY AREAS - SEE ARCH. CONNECT EACH END WITH 3- "A34" SIMPSON ANGLES METAL TRELLIS SYSTEM &amp; ATTACHMENT BY OTHERS SEE ARCH. DWGS FOR DETAILS PROVIDE SLEEVE AT ALL FASTENERS FOR TRELLIS/CANOPY SYSTEM (TYP.) 3x10 (OR 2-2x10) BLOCKING BETWEEN STUDS AT TRELLIS/CANOPY AREAS - SEE ARCH. CONNECT EACH END WITH 3- "A34" SIMPSON ANGLES PROVIDE SLEEVE AT ALL FASTENERS FOR TRELLIS/CANOPY SYSTEM (TYP.) VERIFY W/ ARCH. DWGS. WINDOW OPENING B/ PLATE &amp; CANOPY SEE PLAN</p>	
5	 SECTION S3.0 3/4" = 1'-0"	<p>SEE SECTION 1/S3.0 FOR ADDITIONAL INFORMATION</p> <p>T/ PARAPET SEE ARCH. DWGS. SEE ARCH. DWGS FOR EXTERIOR FINISHES SHEATHING SEE SHEET S4.0 &amp; SHEAR WALL SCHEDULE FOR DETAILS 2x6 STUDS @ 16" O.C. CONT. 2x6 TOP PLATE HSS BEAM W/ 1/2"x3" THREADED STUDS @ 32" O.C. ON TOP W/(2)-1/2"x1" THREADED STUDS @ 48" O.C. ALONG BEAM (DO NOT STAGGER, VERIFY CONNECTION WITH TRELLIS SUPPLIER) T/DBL. TOP PL. EL. +13'-4" CONT. 1x10 BETWEEN HSS &amp; DRAG STRUT CONT. 550T125-43 (5 1/2" 18 GA.) LIGHT GAGE METAL TRACK FASTENED TO HSS W/(2) 0.157" PAF @ EA. STUD 550S162-54 (5 1/2" 16 GA.) LIGHT GAGE METAL INFL STUDS @ 16" O.C. PROVIDE U-CHANNEL BRIDGING PER MANUFACTURER'S RECOMMENDATIONS B/ TRELIS SEE ARCH. DWGS. 4-4 VERIFY W/ ARCH. DWGS. B/ HEADER EL. +8'-0 3/4" WOOD HEADER W/ CONT. 1x6 BOTTOM. SEE SCHEDULE FOR DETAILS MASONRY VENEER LINTEL. SEE SCHEDULE FOR DETAILS B/ HEADER EL. +8'-0 3/4" WINDOW OPENING B/ PLATE &amp; CANOPY SEE PLAN</p>	
6	 SECTION S3.0 3/4" = 1'-0"	<p>SEE SECTION 4/S3.0 FOR ADDITIONAL INFORMATION</p> <p>T/ PARAPET SEE ARCH. DWGS. SEE ARCH. DWGS FOR EXTERIOR FINISHES SHEATHING SEE SHEET S4.0 &amp; SHEAR WALL SCHEDULE FOR DETAILS 2x6 STUDS @ 16" O.C. CONT. 2x6 TOP PLATE HSS BEAM W/ 1/2"x3" THREADED STUDS @ 32" O.C. ON TOP T/JOIST EL. VARIES 3x12 (OR 2-2x12) BLOCKING BETWEEN STUDS AT TRELLIS/CANOPY AREAS - SEE ARCH. CONNECT EACH END WITH 3- "A34" SIMPSON ANGLES VERTICALLY OFFSET EA BLOCKING PIECE UP/DOWN 1 1/2" TO AVOID NAILING INTERFERENCE W/ ADJACENT FRAMING CLIPS USE #10 SCREWS IN LIEU OF TYP NAILS INTO METAL STUDS METAL TRELLIS SYSTEM BY OTHERS SEE ARCH. DWGS FOR DETAILS CONT. 1x10 BETWEEN HSS &amp; DRAG STRUT CONT. 550T125-43 (5 1/2" 18 GA.) LIGHT GAGE METAL TRACK 550S162-54 (5 1/2" 16 GA.) LIGHT GAGE METAL INFL STUDS @ 16" O.C. PROVIDE U-CHANNEL BRIDGING PER MANUFACTURER'S RECOMMENDATIONS B/ CANOPY SEE ARCH. 3-0" VERIFY W/ ARCH. DWGS. B/ CANOPY SEE ARCH. 3-0" VERIFY W/ ARCH. DWGS. MAINTAIN SAME OUTSIDE SHEATHING FACE BETWEEN WOOD &amp; METAL STUD WALLS SEE 2/S4.0 FOR MASONRY VENEER WALL TIE REQUIREMENTS SHEATHING SEE SHEET S4.0 FOR DETAILS CONT 2x6 PLATE T/DBL. TOP PL. EL. +13'-4" (2)-#10 SCREWS - TRACK TO STUD CONT. 550T125-43 (5 1/2" 18 GA.) LIGHT GAGE METAL TRACK (2)-#10 SCREWS - TRACK TO TOP PLATE PER STUD 550S162-54 (5 1/2" 16 GA.) LIGHT GAGE METAL INFL STUDS @ 16" O.C. PROVIDE U-CHANNEL BRIDGING PER MANUFACTURER'S RECOMMENDATIONS MAINTAIN SAME OUTSIDE SHEATHING FACE BETWEEN WOOD &amp; METAL STUD WALLS SHEATHING SEE SHEET S4.0 FOR DETAILS MAINTAIN SAME OUTSIDE SHEATHING FACE BETWEEN WOOD &amp; METAL STUD WALLS</p>	
7	 SECTION S3.0 3/4" = 1'-0"	<p>SEE SECTION 1/S3.0 FOR ADDITIONAL INFORMATION</p> <p>T/ PARAPET SEE ARCH. DWGS. SEE ARCH. DWGS FOR EXTERIOR FINISHES WOOD BEARING WALLS W/FIBER CEMENT SIDING &amp; CI WOOD ROOF TRUSSES FIBER CEMENT PANEL/BATTEN/ALUMINUM/PANEL/BRICK EX. FINISH SITE ID 015-0071 SITE ADDRESS 605 SOUTH 7TH STREET, KANSAS CITY, KS</p>	

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REVIEWED BY AWM  
DATE ISSUED 1/23/20  
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SHEET NO.	TITLE	DRAWN BY	CRB	STD ISSUE DATE	2019-11	REVIEWED BY	AVW	DATE ISSUED	1/23/20	PERMIT
015-0071.00.0	2019 STANDARD BUILDING - BB20 459-7E10-WOOD/WOOD									1/23/20 USD/RVW SET

**McDonald's USA, LLC**

PREPARED BY: VOIGT & ASSOCIATES, INC.

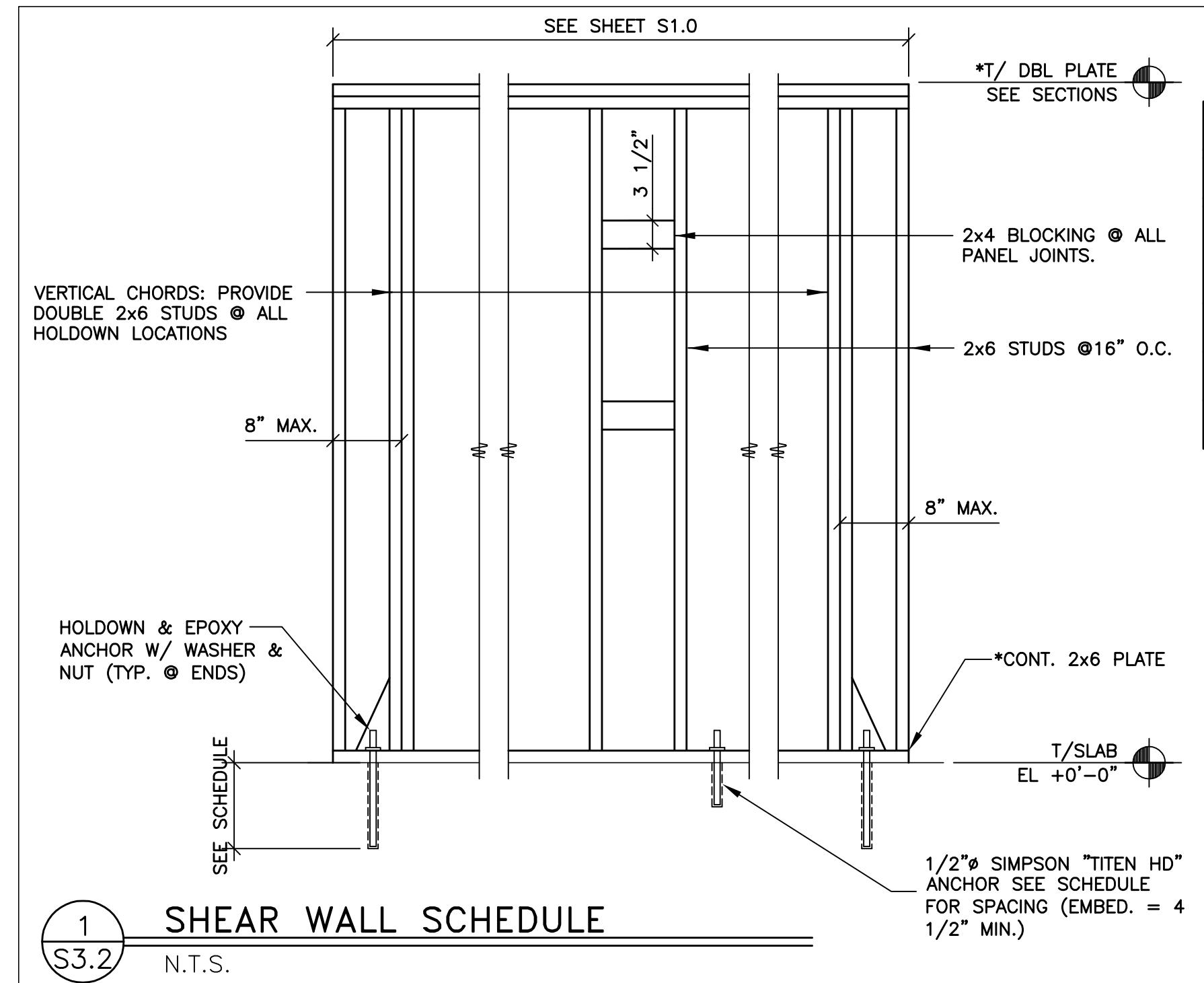
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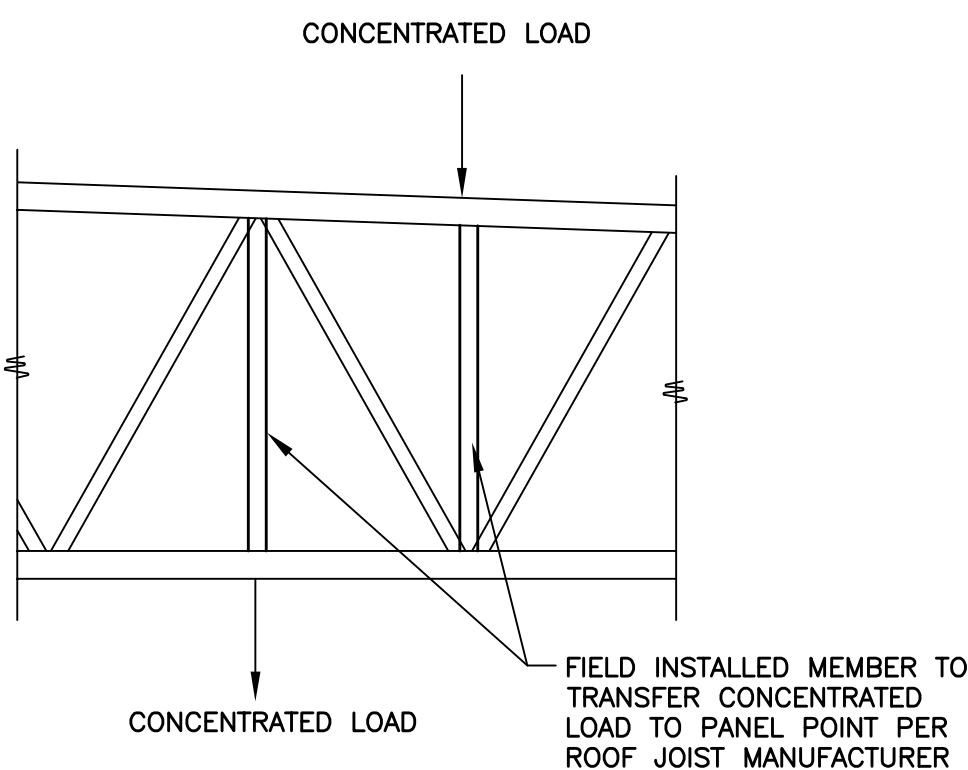
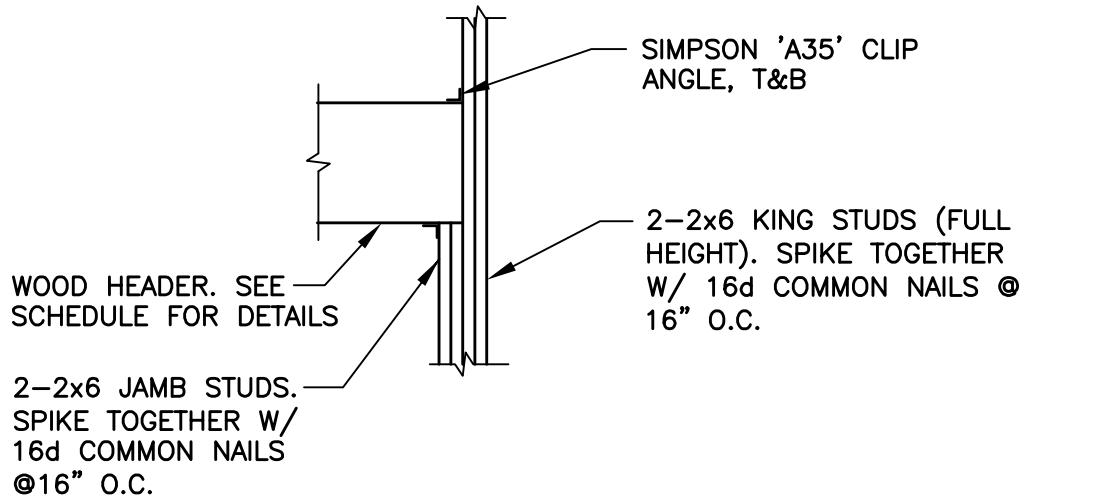
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**S3.1 STEEL DETAILS**



SHEAR WALL SCHEDULE						
WIND: 115 MPH (EXPOSURE C) SEISMIC: Sds = 11.8%, Sd1 = 10.1%						
MARK	SHEATHING	SHEATHING NAIL SIZE	SPACING @ PANEL EDGES	HOLDDOWN*** ANCHORS	ANCHOR BOLT SPACING	REMARKS
A	1-15/32"	8d	6"	1-HDUB-SDS2.5 7/8" EPOXY ANCH.	32"	15" MIN. EMBED. ON HOLDOWN ANCHORS.
B	1-15/32"	8d	6"	1-HDUB-SDS2.5 7/8" EPOXY ANCH.	32"	15" MIN. EMBED. ON HOLDOWN ANCHORS.
C	1-15/32"	8d	6"	1-HDUB-SDS2.5 7/8" EPOXY ANCH.	32"	15" MIN. EMBED. ON HOLDOWN ANCHORS.



SHEET NO.	TITLE	DRAWN BY	PREPARED BY:
015-0071.00-0	2019 STANDARD BUILDING - BB20	CRB	VOIGHT & ASSOCIATES, INC.
	459-710-WOOD/WOOD	STD ISSUE DATE 2019-11	STRUCTURAL ENGINEERING SERVICES
		REVIEWED BY AWM	4635 NICOL RD. A SUITE 200 MINNEAPOLIS, MN 55422
		DATE ISSUED 1/23/20	PHONE: (612) 867-2722
			FAX: (612) 867-4444
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			BY

**1**  
**S3.2**  
N.T.S.

**2**  
**S3.2**  
N.T.S.

**3**  
**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.

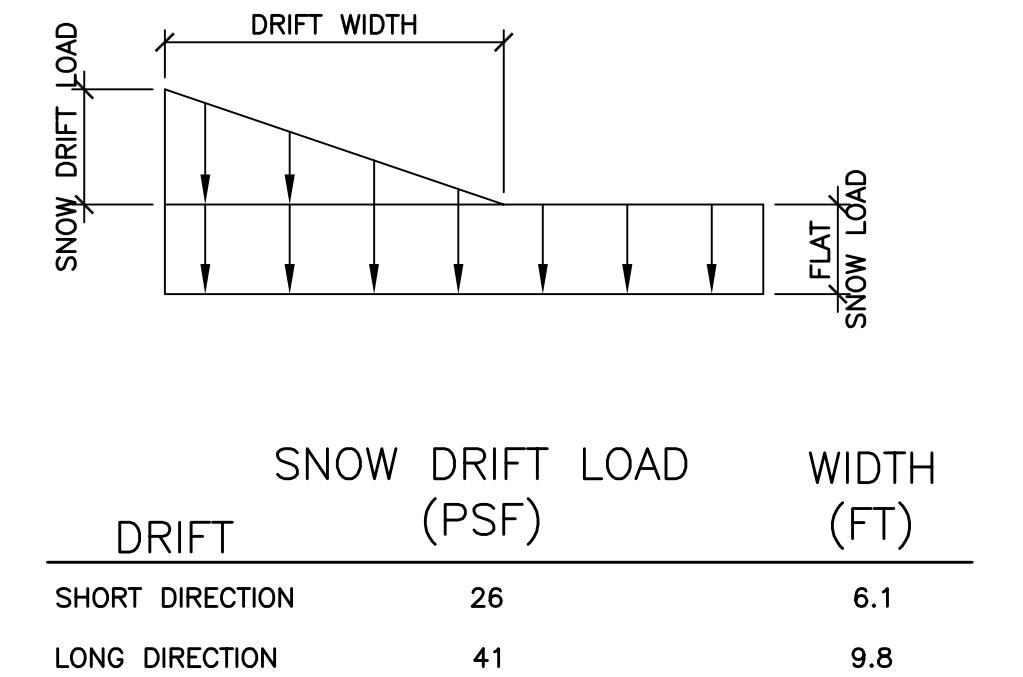
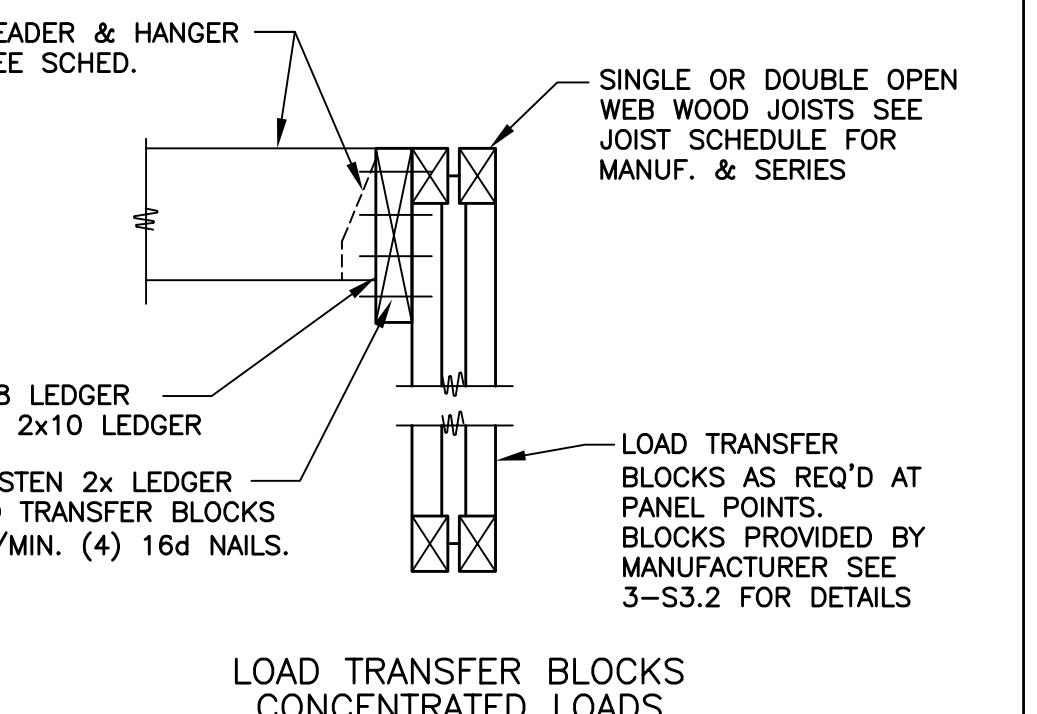
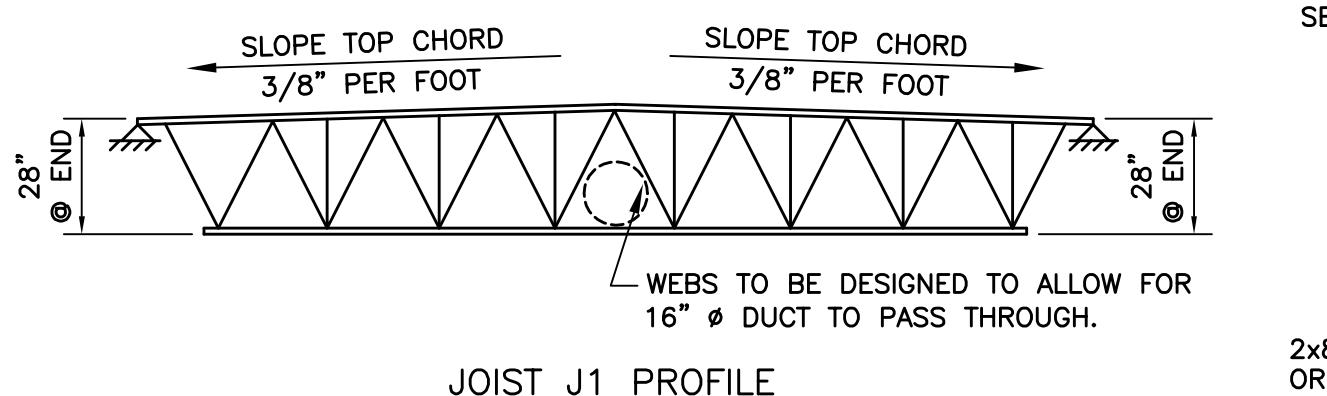
HEADER	HANGER
2x6	LUS26
2-2x6	LUS26-2
2x8	LUS28
2-2x8	LUS28-2
2x10	LUS210
2-2x10	LUS210-2

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 3 SEC GUST - EXPOSURE C, UNFACTORED  
ASCE 7-10 LOADS

WIND UPLIFT:  
INTERIOR = 26.4 PSF ULTIMATE

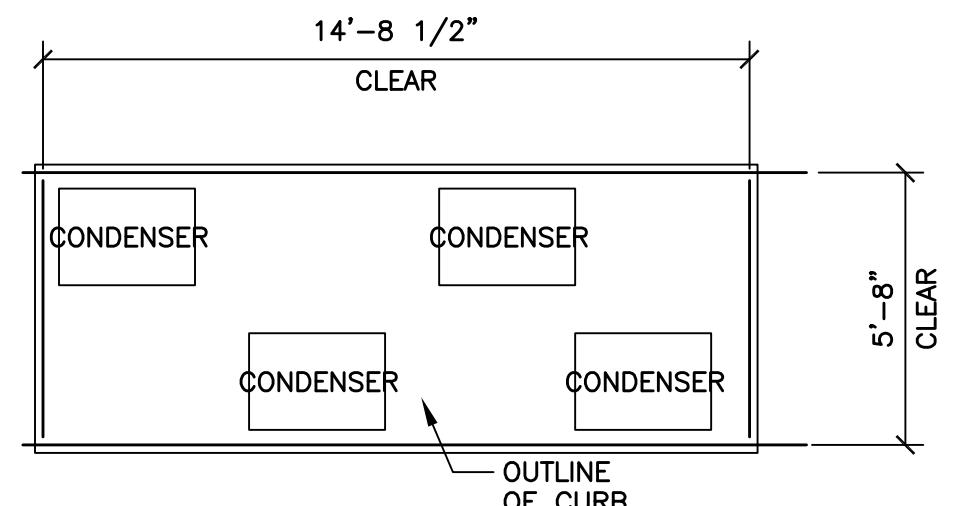
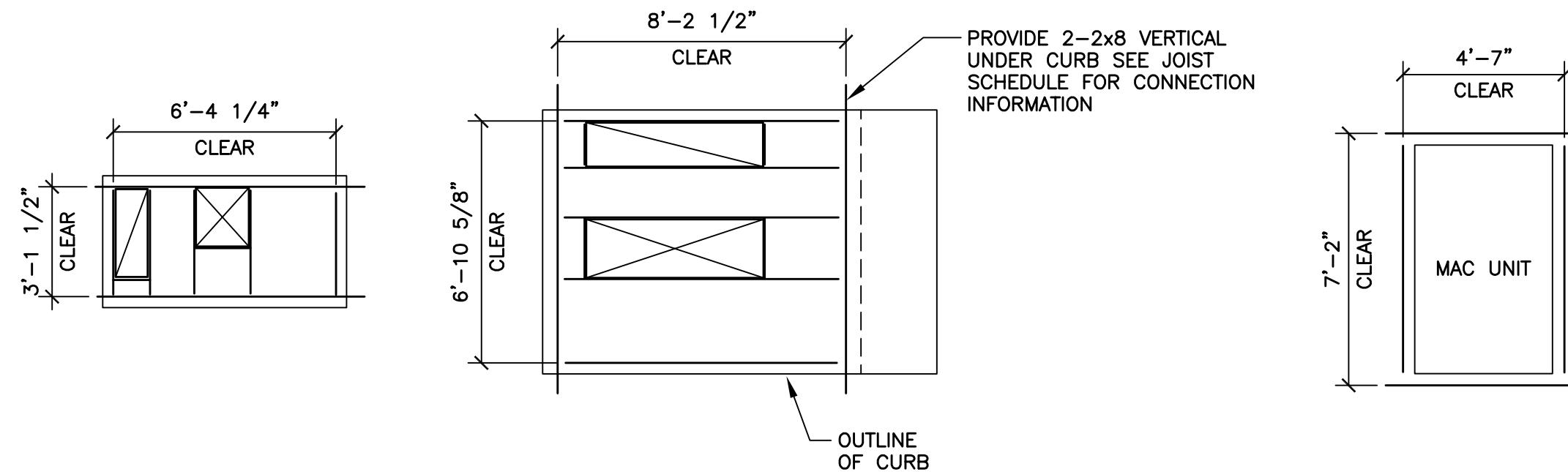
PERIMETER = 31.4 PSF (ULTIMATE WITHIN 5 FT. OF OUTSIDE WALLS)  
DEAD LOAD RESISTANCE = 8 PSF



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

**5**  
**S3.2**  
N.T.S.

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



**7**  
**S3.2**  
1/4" = 1'-0"

**8**  
**S3.2**  
N.T.S.

**9**  
**S3.2**  
N.T.S.

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			BY

## STRUCTURAL GENERAL NOTES:

**DESIGN AND LOADING**

1. THE STRUCTURAL DESIGN OF THIS BUILDING WAS BASED ON THE DESIGN CRITERIA:
  - A. BUILDING CODE: 2012 INTERNATIONAL BUILDING CODE
  - B. FLOOR:
    - LIVE LOAD: 125 PSF
    - C. ROOF:
      - LIVE LOAD: 20 PSF
      - DEAD LOAD: 20 PSF
    - D. SNOW:
      - GROUND LOAD: 20 PSF
      - FLAT ROOF LOAD: 20 PSF
      - SNOW EXPOSURE FACTOR, CE: 1.0
      - IMPORTANCE FACTOR, I: 1.0
      - Thermal Coefficient, CT: 1.0
    - E. WIND:
      - BASIC WIND SPEED: 115 MPH (3-SECOND GUST ULTIMATE)
      - Importance Factor: 1.00
      - BUILDING OCCUPANCY CATEGORY: II
      - WIND EXPOSURE: C
      - PRESSURES PER ASCE7
- F. SEISMIC:
  - OCCUPANCY CATEGORY: II
  - Importance Factor: 1.00
  - SITE CLASS: D
  - SS = 0.111G, S1= 0.063G
  - SDS = 0.118, SD1 = 0.101
  - DESIGN CATEGORY: B
  - PLYWOOD SHEAR WALLS (R = 6.5)
  - OSCBF (R = 3.25)
  - Cs1: 0.018 Cs2: 0.036
  - DESIGN BASE SHEAR = SEE CALCULATIONS
  - ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
- G. FLOOD LOAD: N/A
- H. SPECIAL LOADS: N/A

**FOUNDATION NOTES**

1. THE FOUNDATION DESIGN OF THIS BUILDING WAS BASED ON THE FOLLOWING CRITERIA:

- A. MINIMUM ALLOWABLE SOIL BEARING CAPACITY = 2000 PSF.
- B. RECOMMENDED BY OLSSON, INC - IN THEIR REPORT #019-1175 DATED 5-22-19, ANY FILL REQUIRED BELOW SLABS ON GRADE OR FOOTINGS SHALL BE COMPAKTED AS REQUIRED BY THE SOILS REPORT NOTED IN ITEM #2.

2. ALL EXTERIOR FOOTINGS SHALL EXTEND BELOW THE MAXIMUM ANTICIPATED DEPTH OF FROST.

3. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OR ENGINEER OF RECORD IMMEDIATELY IN THE EVENT THAT THE SOILS CONDITIONS ENCOUNTERED VARY FROM THOSE SHOWN ON THE BORING LOGS.

4. ALL FOUNDATION EXCAVATIONS SHALL BE INSPECTED BY A SOILS TESTING LABORATORY PRIOR TO PLACEMENT OF CONCRETE.

**CONCRETE AND REINFORCING**

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

**STRUCTURAL STEEL**

1. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN CONFORMANCE WITH THE AISC360 "SPECIFICATION FOR STRUCTURAL STEEL". SEISMIC DESIGN OF STRUCTURAL STEEL STRUCTURES SHALL CONFORM TO AISC 341.
2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:

- A. ANCHOR RODS F1554, GRADE 36
- B. HIGH STRENGTH STRUCTURAL BOLTS A325-N U.N.O.
- C. STRUCTURAL SHAPES (W) A992
- D. STRUCTURAL SHAPES (M, S, C, MC, PLATES) A36
- E. STRUCTURAL SHAPES (HP) A572
- F. STRUCTURAL TUBING (HSS) A500 GRADE B
- G. STRUCTURAL ANGLES A36

3. ALL WELDING ELECTRODES SHALL BE E70-XX. ALL SHOP AND FIELD WELDING SHALL BE MADE IN ACCORDANCE WITH A.W.S. D1.1 "CODE FOR WELDING IN BUILDING CONSTRUCTION" AND SHALL BE MADE BY CERTIFIED WELDERS.

**LAMINATED VENEER LUMBER (LVL)**

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

**OPEN WEB WOOD JOISTS**

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

**SAWN LUMBER**

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

**ROOF & WALL SHEATHING**

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

**LIGHT GAGE METAL FRAMING**

1. 16 GA. AND HEAVIER STUDS SHALL HAVE A MINIMUM YIELD STRESS OF 50,000 PSI. 18 GA. AND LIGHTER STUDS AND TRACKS SHALL HAVE A MINIMUM YIELD STRESS OF 33,000 PSI.
2. STUDS AND TRACKS SHALL BE 18 GA. MINIMUM U.N.O. THEY SHALL BE MANUFACTURED BY DIETRICH INDUSTRIES, INC. OR APPROVED EQUAL.

3. PROVIDE DOUBLE STUDS FOR FULL HEIGHT OF WALL EACH SIDE OF ALL OPENINGS UNLESS OTHERWISE NOTED. WELD STUDS TO EACH OTHER WITH 1 1/2" LONG 1/8" FILLET WELDS AT 12" O.C. EACH SIDE. PROVIDE STUD TRACK AT EACH HEAD AND SILL.

4. REFER TO PLANS AND DETAILS FOR CONNECTION OF STUD WALLS TO FOUNDATION, FLOOR OR ROOF.

**SHOP DRAWINGS**

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

**SPECIAL INSPECTIONS**

1. SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 1705 OF IBC AND THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED UNDER SECTION 1705. THE FOLLOWING AREAS OF WORK REQUIRE SPECIAL INSPECTIONS IN ACCORDANCE WITH THE LISTED 2012 INTERNATIONAL BUILDING CODE SECTIONS/LOCATIONS:
  - A. SOILS – SECTION 1705.6 PER TABLE 1705.6
  - B. CONCRETE – SECTION 1705.3 PER TABLE 1705.3
  - C. STEEL – SECTION 1705.2 (SEE AISC 360.10)

**MISCELLANEOUS**

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

**CONCRETE BLOCK JOINT REINFORCEMENT**

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

**CONCRETE BLOCK JOINT REINFORCEMENT**

1  
S4.0

**VENEEER TIE REQUIREMENTS**

1. USE THE FOLLOWING:  
VENEEER TIES W/ WIRE SIZE (W2.8 OR 3/16") SPACED 16" O.C. VERTICALLY AND 32" HORIZONTALLY. ADDITIONAL TIES ALONG ALL OPENINGS GREATER THAN 16" ARE REQUIRED TO BE LOCATED WITHIN 12" OF OPENING AND SPACED 36" O.C. MAX. AROUND OPENING PERIMETER. (HOHMANN & BARNARD VBT-VEE-BYNA TIE WITH DW10-HS ANCHOR PLATE OR EQUAL).

**VENEEER TIE REQUIREMENTS**

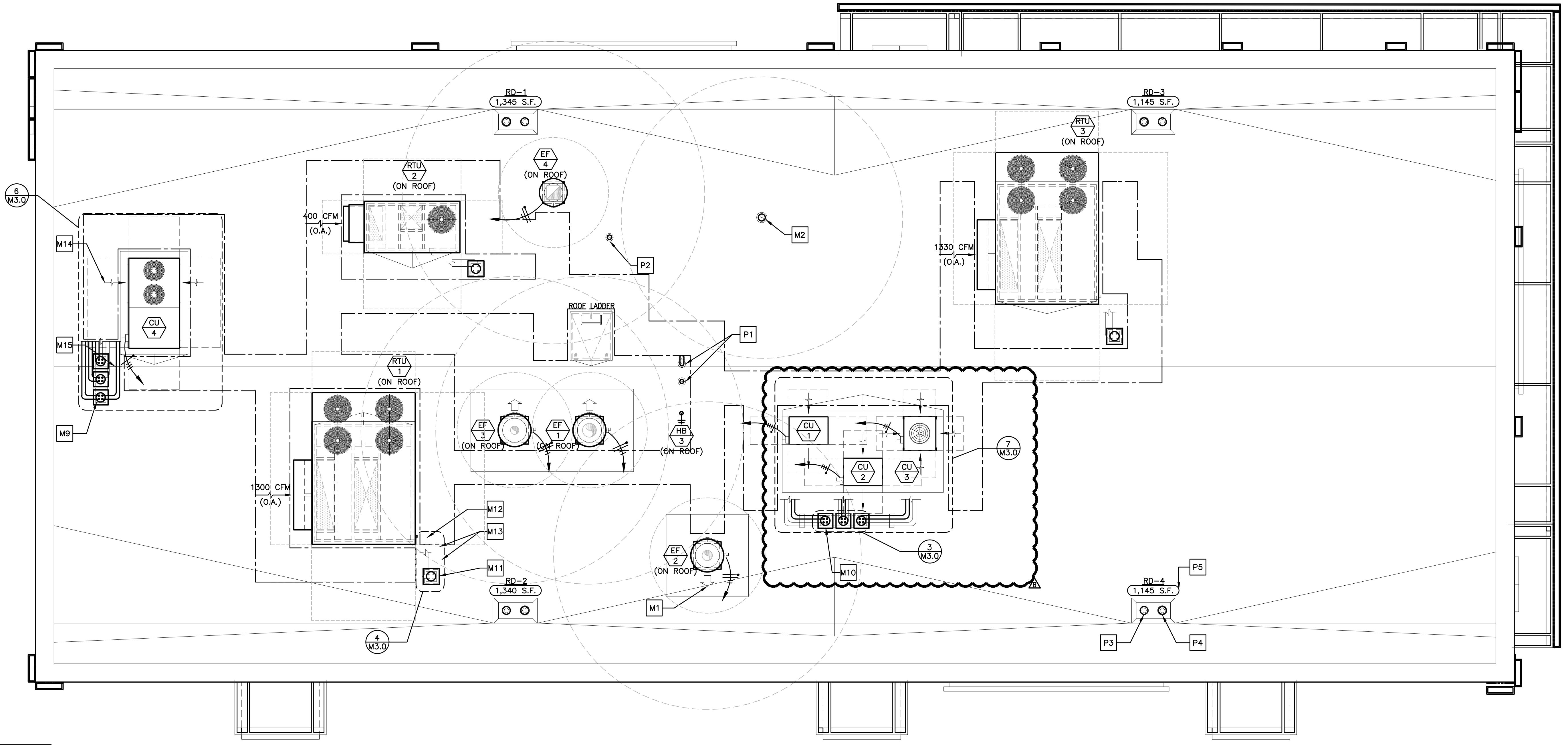
2  
S4.0

SHEET NO.	TITLE	DRAWN BY	PREPARED BY:	© 2020 McDonald's USA, LLC
015-0071.00.0	2019 STANDARD BUILDING - BB20	CRB	STD ISSUE DATE	2019-11
015-0071	4597-10-WOOD/WOOD		REVIEWED BY	AWM
			DATE ISSUED	1/23/20
			PERMIT	
			REV. DATE	1/13/20
			USRD REVIEW SET	
			DESCRIPTION	
				BY

**McDonald's USA, LLC**

STRUCTURAL ENGINEERING SERVICES  
4035 NICOLLS RD.  
ELLIOTTSBURG, MINNESOTA 55322  
PHONE: (651) 687-2727  
FAX: (651) 687-4444

*[Large circular stamp with handwritten signature and text]*



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

### DRAWING NOTES

- ROOFTOP EQUIPMENT LOCATIONS SHOWN ARE GENERAL. ACTUAL LOCATIONS SHALL BE COORDINATED WITH THE STRUCTURAL DRAWINGS.
- ROOF OPENINGS FOR ROOFTOP UNITS AND EXHAUST FANS SHALL BE COORDINATED WITH THE MANUFACTURER.
- 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.
- PRIOR TO INSTALLING THE TOP OF THE EQUIPMENT PLATFORM, INSIDE OF THE PLATFORM SHALL BE INSULATED WITH AS MUCH BATT INSULATION AS POSSIBLE.

DRAWINGS AND SPECIFICATIONS ARE TO BE CONSIDERED AS SUPPLEMENTING EACH OTHER. WORK SPECIFIED BUT NOT SHOWN ON DRAWINGS, OR SHOWN ON DRAWINGS BUT NOT SPECIFIED, SHALL BE PERFORMED OR FURNISHED AS THOUGH MENTIONED IN BOTH SPECIFICATIONS AND DRAWINGS. IF NOT OTHERWISE DIRECTED, INSTALLATION OF ALL SYSTEMS AND EQUIPMENT SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. WHERE WORK DESCRIBED IN THE SPECIFICATIONS IS IN CONFLICT WITH THE WORK SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL SUPPLY THE GREATER QUANTITY, QUALITY AND COST VIA THE BID AND CONTACT THE ENGINEER FOR CLARIFICATION ON DIRECTION PRIOR TO INSTALLATION.

PRIOR TO BD, THE CONTRACTOR SHALL REVIEW THE MECHANICAL, ELECTRICAL AND KITCHEN EQUIPMENT DRAWINGS. THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL RELEVANT WORK IN THE ENTIRE SET OF DOCUMENTS AND REPORT ALL DISCREPANCIES BETWEEN THESE DRAWINGS TO THE ENGINEER PRIOR TO BIDDING FOR CLARIFICATION. IF DISCREPANCIES REMAIN UNRESOLVED DUE TO A SHORT TIME FRAME, THE CONTRACTOR SHALL INCLUDE THE MOST WORK AND THE HIGHER COSTS IN THE BID. SOLUTIONS TO UNREPORTED DISCREPANCIES WILL BE DETERMINED BY THE ARCHITECT/ENGINEER, WITH NO ADDITIONAL COMPENSATION DUE TO THE CONTRACTOR.

### 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 NOT USED

M4 NOT USED

M5 NOT USED

M6 NOT USED

M7 NOT USED

M8 NOT USED

M9 ROOF PIPE PORTAL FOR MAC UNIT

M10 ROOF PIPE PORTAL FOR CONDENSING UNITS

M11 ROOF PIPE PORTAL FOR ROOFTOP UNITS (TYP. 3 PLACES)

M12 GAS PIPING FROM ROOF PORTAL TO ROOFTOP UNIT SHALL BE COATED WITH A CORROSION RESISTANT PAINT (SEE GAS PIPING NOTES)

M13 GAS PRESSURE REGULATOR AND SHUT-OFF VALVE (TYP.)

M14 ARROW INDICATES DIRECTION OF AIRFLOW FOR CONDENSING OR ROOFTOP UNIT AIR INTAKE (TYP.)

M15 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.

P1 COMBUSTION AIR INTAKE AND EXHAUST VENT FOR SEALED COMBUSTION WATER HEATER (SEE PLUMBING DRAWINGS). PROVIDE PORTALS PLUS PLASTIFLASH WITH C-126 CAP (OR EQUAL) FOR ROOF PENETRATION.

P2 PLUMBING VENT THROUGH ROOF (SEE PLUMBING DRAWINGS). PROVIDE PORTALS PLUS PLASTI-FLASH WITH C-126 CAP (OR EQUAL) FOR ROOF PENETRATION.

P3 PRIMARY ROOF DRAIN WITH DOME STRAINER (SEE PLUMBING DRAWINGS)

P4 OVERFLOW ROOF DRAIN WITH DOME STRAINER (SEE PLUMBING DRAWINGS)

P5 AREA OF ROOF SERVED BY ROOF DRAIN (TYP.)

### PIPE PORTAL SCHEDULE

MANUFACTURER	CURB DIMENSIONS	CURB TYPE	CAP TYPE (QTY)	SERVES	MODE	FAN	COOLING	HEATING
RPS	12"x12"x11"H	RC-2A	N18 (1)	RTU-1 THROUGH RTU-3	OCCUPIED	ON	75°F	70°F
RPS	43"x12"x13"H	RC-2A	N18 (3)	CU-4	UNOCCUPIED	AUTO	90°F	55°F
RPS	27"x12"x13"H	RC-2A	N18 (2)	CU-1 THROUGH CU-3	HUMIDITY SETPOINT (FOR DEHUMIDIFICATION UNITS ONLY)	60%	DEMAND CONTROL VENTILATION	

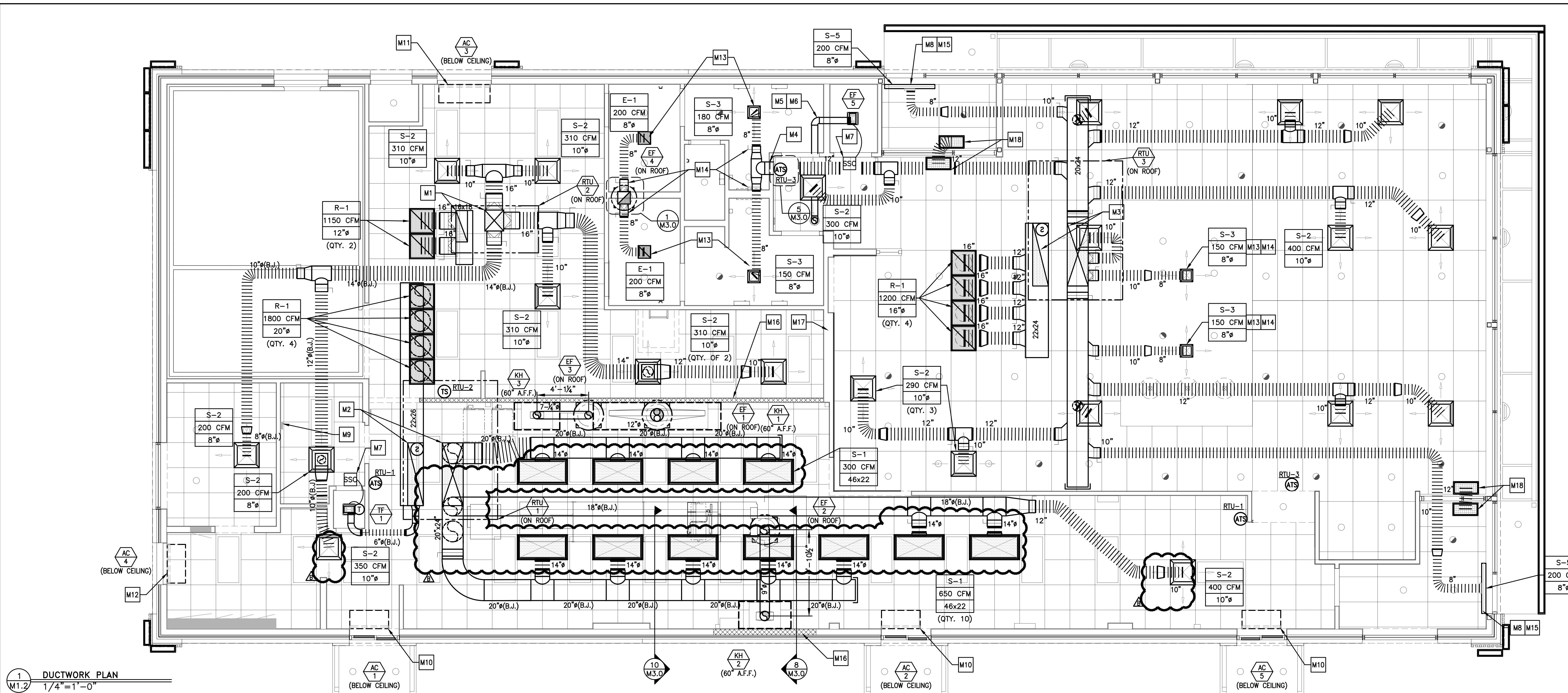
### SEQUENCE OF OPERATION

THERMOSTAT SETTINGS		
DRAWN BY	M.J.W	SETPOINTS
STD ISSUE DATE	2019-11	MODE
REVIEWED BY	W.L.W	FAN
DESCRIPTION		COOLING
DATE ISSUED	01/23/20	HEATING
SITE ID	015-0071.00.B	
SITE ADDRESS	605 SOUTH 7TH STREET, KANSAS CITY, KS	
REVISION	R0f1975	

- 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)

SHEET NO.	TITLE	W.L.W
015-0071.00.B	2019 STANDARD BUILDING - BB20	12/03/20
	4597F10-WOOD/WOOD	11/13/20
	WOOD BEARING WALLS W/ FIBER CEMENT SIDING & CI	05/05/20
	WOOD ROOF TRUSS FRAMING	01/23/20
	FIBER CEMENT PANEL/BATTEN/ALPOLIC PANEL/BRICK EXT. FINISH	01/13/20
	REV. DATE	DESCRIPTION
		BY

**emmanuelson-podas**  
consulting engineers  
3801.0037  
MICHAEL WEBER  
LICENSED  
17648  
KANSAS  
STATE  
PROFESSIONAL ENGINEER  
12/03/20



### DRAWING NOTES

- ALL DUCTWORK SHALL BE RUN BETWEEN OR THROUGH THE JOISTS UNLESS NOTED OTHERWISE. DUCTWORK DESIGNATED WITH (B.J.) SHALL BE RUN BELOW THE JOISTS.
- DUCT SIZES SHOWN ARE INTERNAL FREE AREA DIMENSIONS UNLESS NOTED OTHERWISE.
- ALL SHEET METAL DUCTWORK SHALL BE EXTERNALLY INSULATED. INSULATION IS NOT SHOWN FOR CLARITY. SEE MECHANICAL NOTES FOR INSULATION REQUIREMENTS.
- CARBON STEEL KITCHEN EXHAUST DUCTWORK SHALL BE EXTERNALLY INSULATED. INSULATION NOT SHOWN FOR CLARITY. SEE MECHANICAL NOTES AND DETAILS FOR INSULATION REQUIREMENTS.
- RETURN AIRFLOW VOLUME SHOWN ON PLAN IS FOR DUCTWORK SIZING PURPOSES WHEN THE UNIT IS IN RECIRCULATION (UNOCCUPIED) MODE.
- DIFFUSERS IN DINING ROOM ARE SPECIFIC TO THE DECOR PLAN SHOWN. DIFFERENT CEILING LAYOUTS MAY REQUIRE A DIFFERENT DIFFUSER TYPES, QUANTITIES, LOCATIONS AND FINISHES/COLORS.

### KEYED NOTES

- M1 18x20 SUPPLY AND 11x30 RETURN DUCT DROPS FROM ROOFTOP UNIT (RTU-2)
- M2 20x60 SUPPLY AND 15x60 RETURN DUCT DROPS FROM ROOFTOP UNIT (RTU-1)
- M3 20x60 SUPPLY AND 15x60 RETURN DUCT DROPS FROM ROOFTOP UNIT (RTU-3)
- M4 PROVIDE SHEET METAL DUCT AT ALL DRAFTSTOP WALL PENETRATIONS (TYP.) (WHERE REQUIRED BY CODE.)
- M5 6"Ø ALUMINUM DUCT FROM EXHAUST FAN UP THROUGH ROOF
- M6 EXTERNALLY INSULATE EXHAUST DUCT FROM FAN TO ROOF PENETRATION
- M7 STEADY STATE SPEED CONTROLLER FOR CEILING MOUNTED EXHAUST FAN. STEADY STATE SPEED CONTROLLER SHALL BE INSTALLED OVER SUSPENDED CEILING FOR ACCESS. DO NOT INSTALL OVER AREAS WITH DRYWALL CEILINGS.
- M8 SET DIFFUSER (S-5) FOR VERTICAL AIR THROW PATTERN (TYP.)
- M9 BUILDING AUTOMATION SYSTEM LOCATION. SEE LIGHTING CONTROL DETAILS ON SHEET E4.1.
- M10 MOUNT AIR CURTAIN TIGHT TO CEILING
- M11 MOUNT AIR CURTAIN WITH BOTTOM OF UNIT AT TOP OF DOOR FRAME
- M12 MOUNT AIR CURTAIN WITH BOTTOM OF UNIT ABOVE DOOR FRAME AND TOP OF SWITCHGEAR TO MEET 3'-0"
- M13 MINIMUM SWITCHGEAR'S CLEARANCE REQUIREMENT
- FOR DIFFUSERS INSTALLED IN DRYWALL CEILINGS, VOLUME DAMPER IS INTEGRAL TO DIFFUSER AND ADJUSTABLE AT FACE OF DIFFUSER (SEE NOTE 18 UNDER "VENTILATION SYSTEMS" ON DRAWING M4.0 AND AIR DEVICE SCHEDULE ON DRAWING M4.1)
- M14 FOR DIFFUSERS INSTALLED IN DRYWALL CEILINGS, INSTALL HIGH-EFFICIENCY TAKE-OFFS WITH VOLUME DAMPER IN FULL-OPEN POSITION TO FACILITATE BALANCING AT FACE OF DIFFUSER.
- M15 GENERAL CONTRACTOR SHALL PROVIDE ADDITIONAL T-BAR FRAME TO PROPERLY LOCATE DIFFUSER AS SHOWN. AIR STREAM FROM DIFFUSER SHALL COVER ENTIRE DOOR OPENING.
- M16 NONCOMBUSTIBLE WALL CONSTRUCTION BEHIND TYPE I KITCHEN HOODS. REFER TO SHEET A1.0 FOR MORE INFORMATION.
- M17 CONTRACTOR TO PROVIDE LOUVRED RETURN AIR BEHIND EACH MENU BOARD.

M18 PROVIDE TITUS 50F OR EQUAL, 24x12 OPEN CEILING GRATE PAINTED TO MATCH CEILING. PROVIDE PLASTER FRAMING FOR DRYWALL CEILING APPLICATIONS.

2015 IMC SECTION 403.3 - VENTILATION SCHEDULE

UNIT	AREA SERVED	AREA FT <sup>2</sup>	CFM/PERSON	CFM/FT <sup>3</sup>	PEOPLE OR PEOPLE/1000 FT <sup>3</sup>	UNCORRECTED REQUIRED O/A CFM	Ez*	REQUIRED O/A CFM (Vot)**	ACTUAL O/A CFM	REQUIRED EXHAUST CFM	ACTUAL EXHAUST CFM
RTU-1	PRESENTER	352	5	0.06	4	42	0.8	0.90			
	KITCHEN	682	7.5	0.18	18		0.8				
RTU-2	SUPPORT	574	0	0.12	0	69	0.8	0.90	-	-	
	MANAGER'S OFFICE	59	5	0.06	1	9	0.8		-	-	
	CREW ROOM	99	5	0.06	5	31	0.8		-	-	
	ORDER	140	5	0.06	7	43	0.8		-	-	
RTU-3	DINING	1759	7.5	0.18	95	1030	0.8	0.91	151	168	400
	PRESENTER	0	5	0.06	0	0	0.8		-	-	
	VESTIBULE 1	90	0	0.06	0	5	0.8		-	-	
	VESTIBULE 2	53	0	0.06	0	3	0.8		-	-	
	WOMEN'S	136	0	0.06	0	8	0.8		-	-	
	MEN'S	122	0	0.06	0	7	0.8		-	-	
RTU-4	PLAYPLACE	0	7.5	0.18	0	1054		0.96	1080	1330	
	EATERY	1000	7.5	0.18	100	1000	0.8		0	0	
EF-1, 2 & 3	KITCHEN	682	-	0.7	-	-	-	-	-	477	2405
EF-4	WOMEN'S	136	-	-	-	-	-	-	100	200	
EF-6	MEN'S	122	-	-	-	-	-	-	100	200	
	PLAYPLACE (UNISEX)	0	-	-	-	-	-	-	0	0	

\* Zone Air Distribution Effectiveness Based on ASHRAE 62.1 Table 6.2 for Ceiling Supply of Warm Air 15° F or More Above Space Temperature and Ceiling Return (IMC Table 403.3.1.2)

\*\* Ventilation System Efficiency Based on ASHRAE 62.1 Table 6.3 and Section 6.2.5 (IMC Section 403.3.2 MZ)

\*\*\* Corrected Required O/A Intake Required for System Calculated Based on ASHRAE 62.1 Section 6.2 (IMC Section 403.3)

TITLE	2019 STANDARD BUILDING - BB20	STD ISSUE DATE	2019-11	REVIEWED BY	WLW
DESCRIPTION	4597F10-WOOD/WOOD	DATE ISSUED	01-23-20		
WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI		PERMIT SET			
WOOD ROOF TRUSS FRAMING		PROGRESS SET REVIEW			
FIBER CEMENT PANEL/BATTEN/ALPOLIC PANEL/BRICK EXT. FINISH		REV. DATE			
SITE ID	015-0071.00.B				
SHEET NO.	M1.2				
DUCTWORK PLAN					

DESCRIPTION	BY
W.L.W.	12/03/20
W.L.W.	11/13/20
W.L.W.	05/05/20
W.L.W.	01/23/20
W.L.W.	01/13/20

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consulting engineers

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12/03/20

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

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

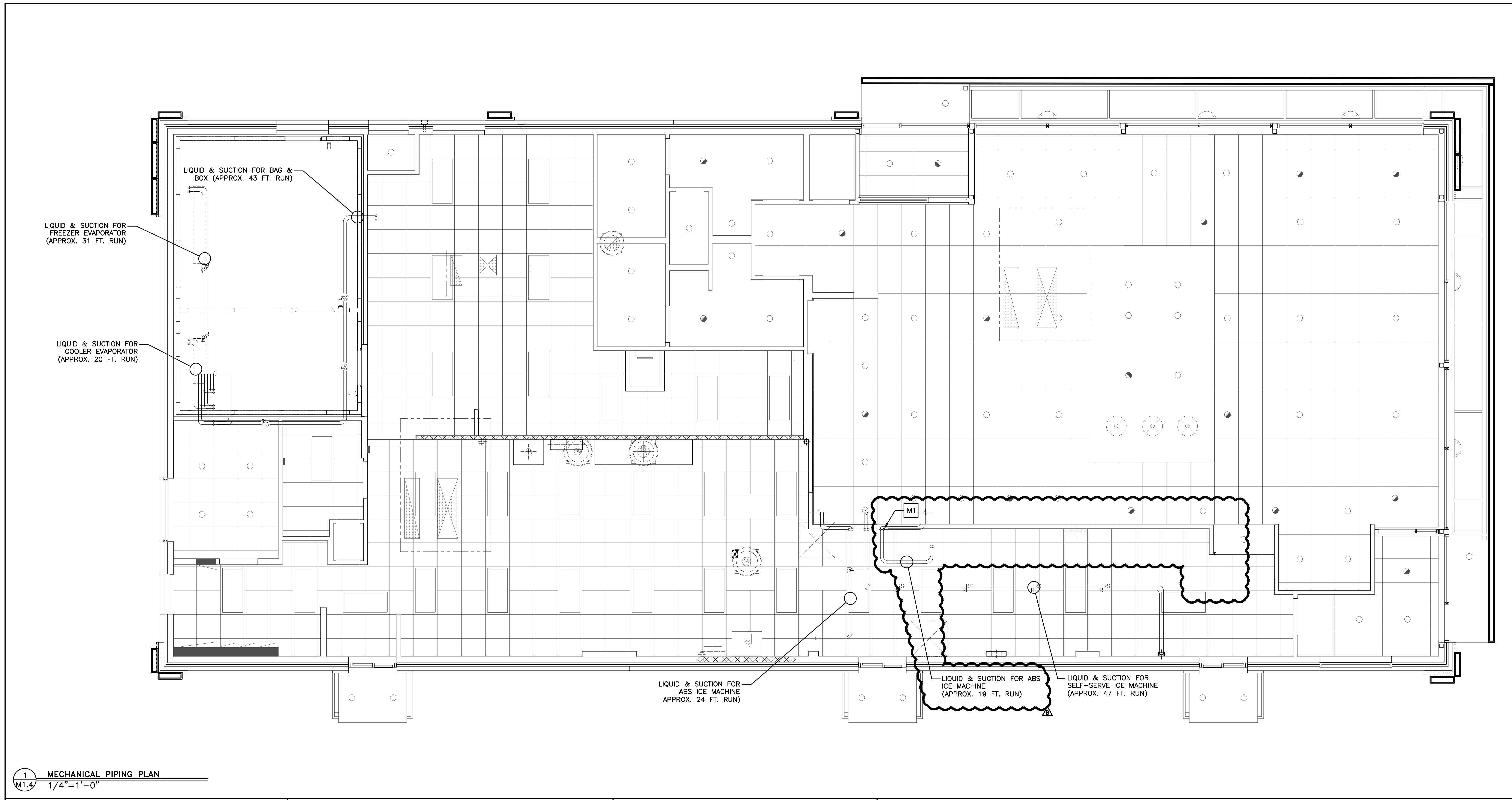
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REVIEWED BY:  
**WLW**

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DATE ISSUED:  
**01-23-20**

REVIEWED BY:  
**WLW**



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

#### DRAWING NOTES

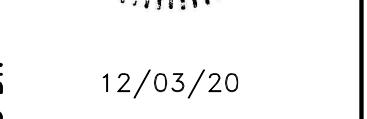
1. GAS PIPING LENGTHS ARE APPROXIMATE AND ARE SHOWN FOR SIZING PURPOSES ONLY.
2. REFRIGERANT PIPE SIZES SHALL BE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

#### KEYED NOTES

- M1 REFRIGERANT LIQUID AND SUCTION LINES UP THROUGH ROOF TO CONDENSING UNITS (TYP. 6 PLACES - SEE DETAIL 3 ON DRAWING M3.0)

SHEET NO.	TITLE	PREPARED BY:	REVIEWED BY:	DATE ISSUED:	PERIODIC REVIEW:	DESCRIPTION:	BY:
015-0071.00.B	2019 STANDARD BUILDING - BB20 4597F10-WOOD/WOOD	M.J.W. 2019-11	W.L.W. 12/03/20			SERVICE AREA OPTIMIZATION	
						11/13/20 USD & SA SET REVIEW	
						05/05/20 CIVIL & PLAN REVIEW COMMENTS	
						01/23/20 PERMIT SET	
						01/13/20 PROGRESS SET REVIEW	
						REV DATE	DESCRIPTION

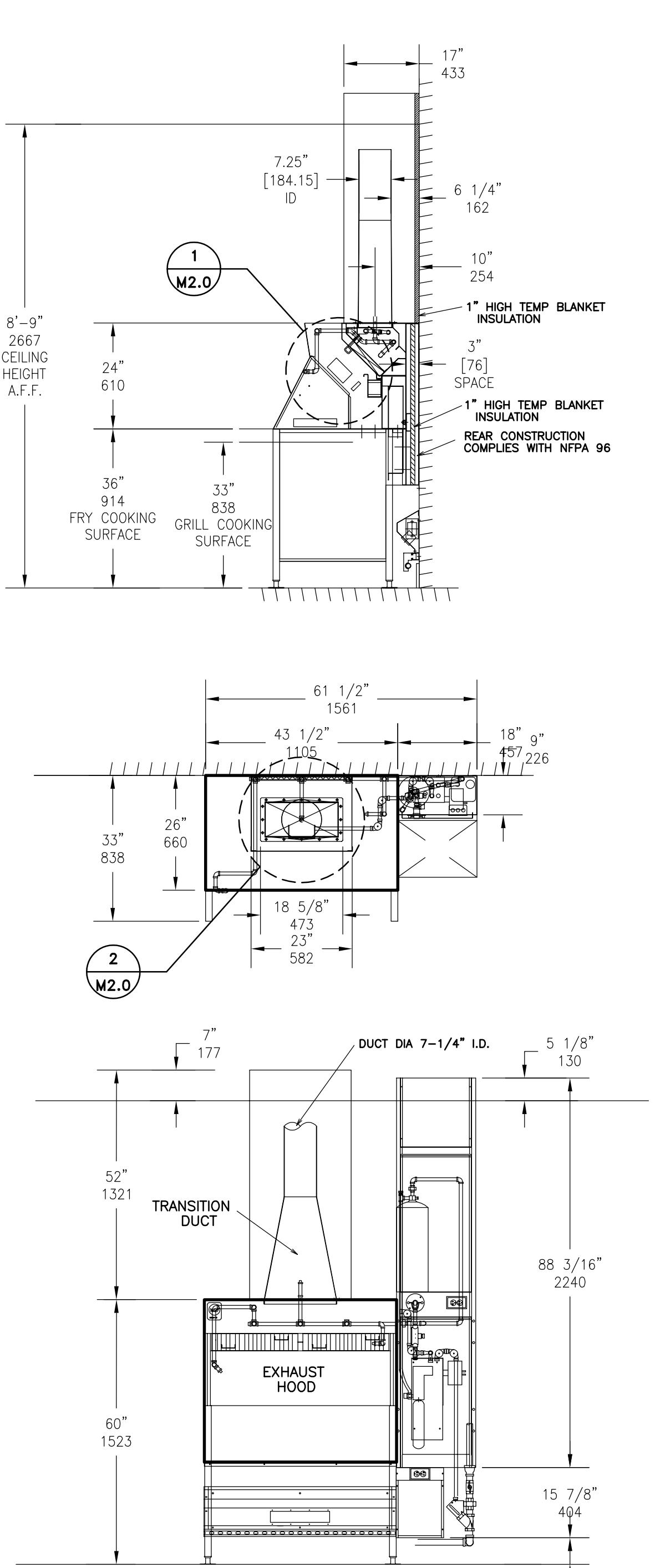
**ep** emanuelson-podas consulting engineers  
3801.0037  
Michael Weber  
LIC# 17648  
Emmanuel-Podas, Inc.  
100 N Main Street  
Edwards, KS 65639  
(920) 930-0050 | www.epinc.com



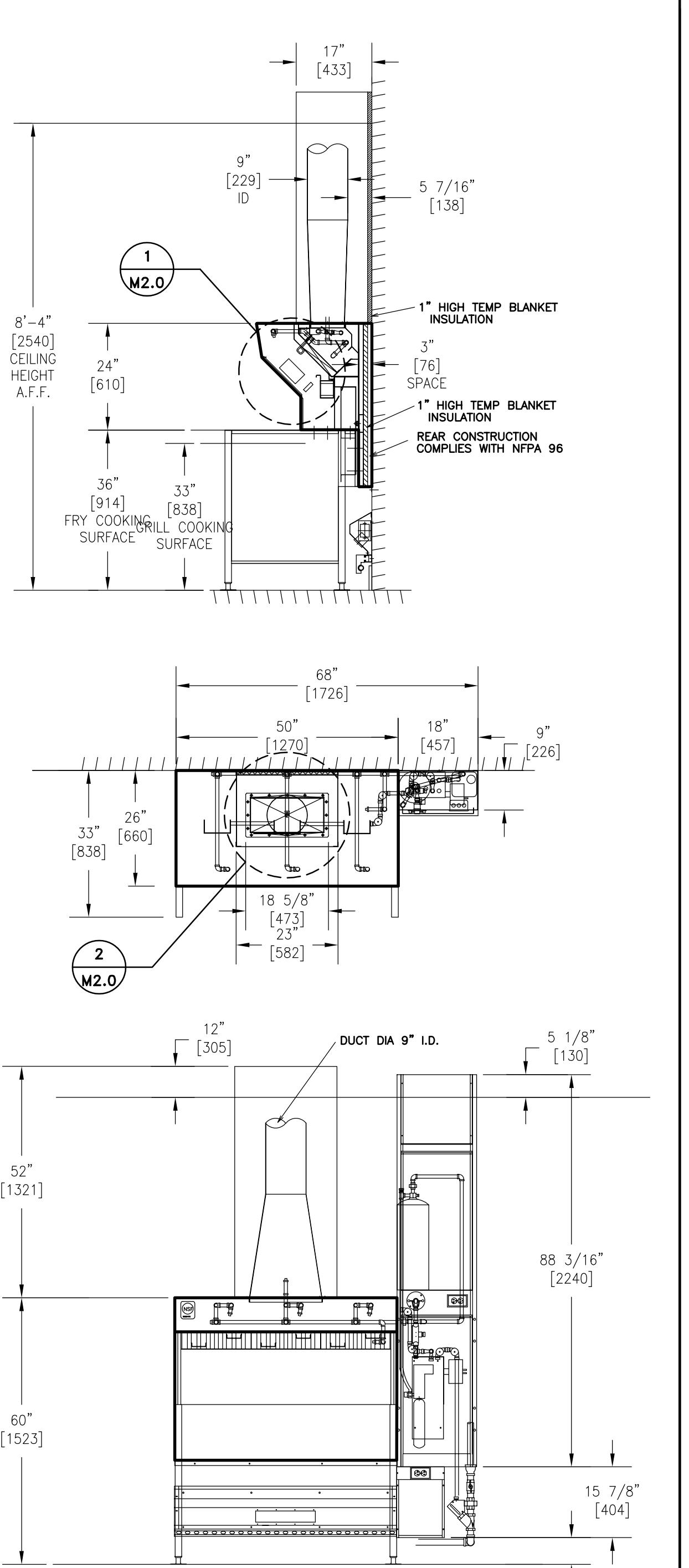
12/03/20

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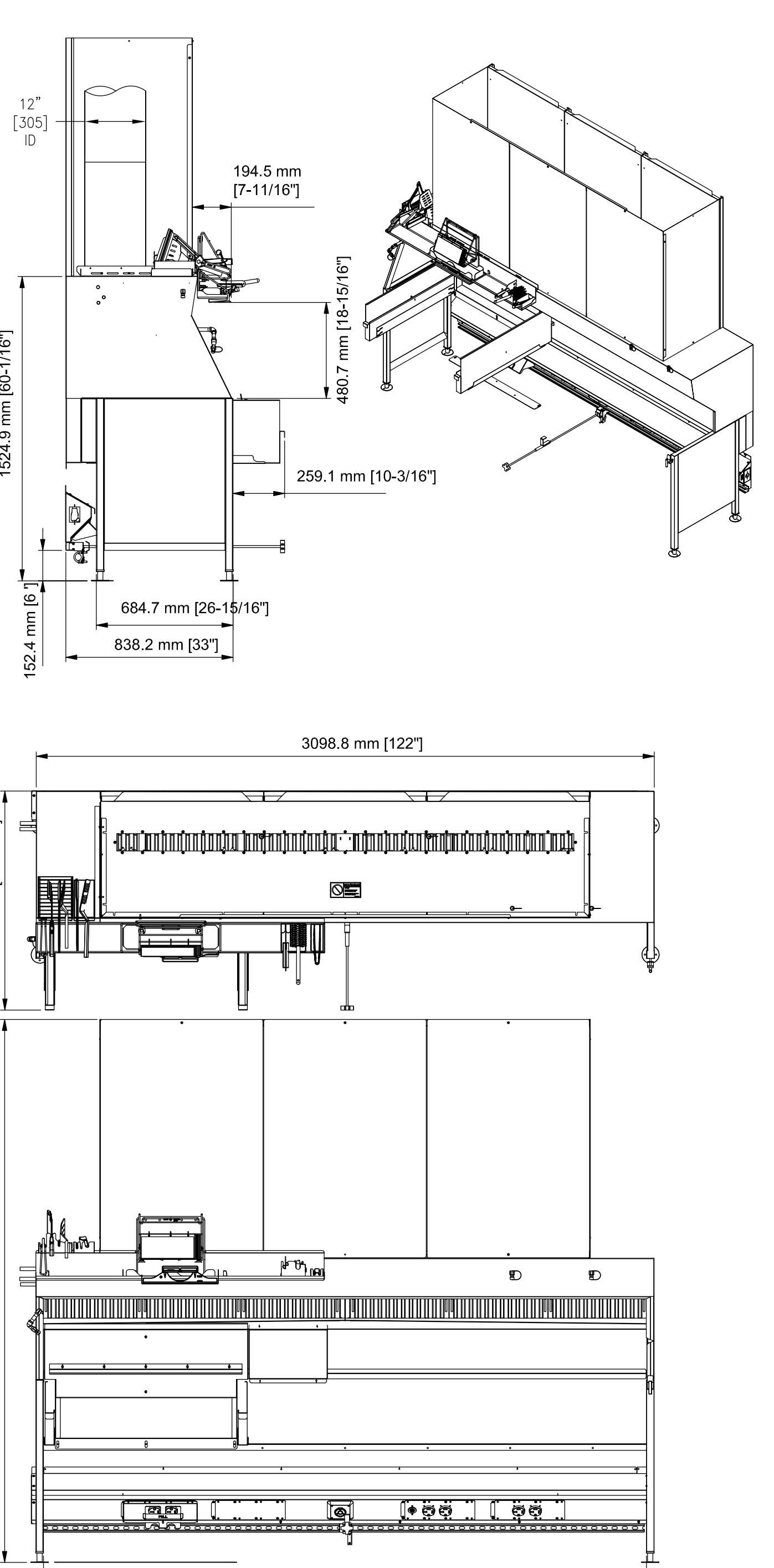
DRAWN BY:  
M.J.W.  
STD ISSUE DATE:  
2019-11  
REVIEWED BY:  
W.L.W.  
DATE ISSUED:  
01-23-20  
PERIODIC REVIEW:  
R#1975  
TITLE:  
2019 STANDARD BUILDING - BB20  
WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI  
WOOD ROOF TRUSS FRAMING  
FIBER CEMENT PANEL/BATTEN/ALPOLIC PANEL/BRICK EXTER. FINISH  
SITE ID: 015-0071 SITE ADDRESS: 605 SOUTH 7TH STREET, KANSAS CITY, KS



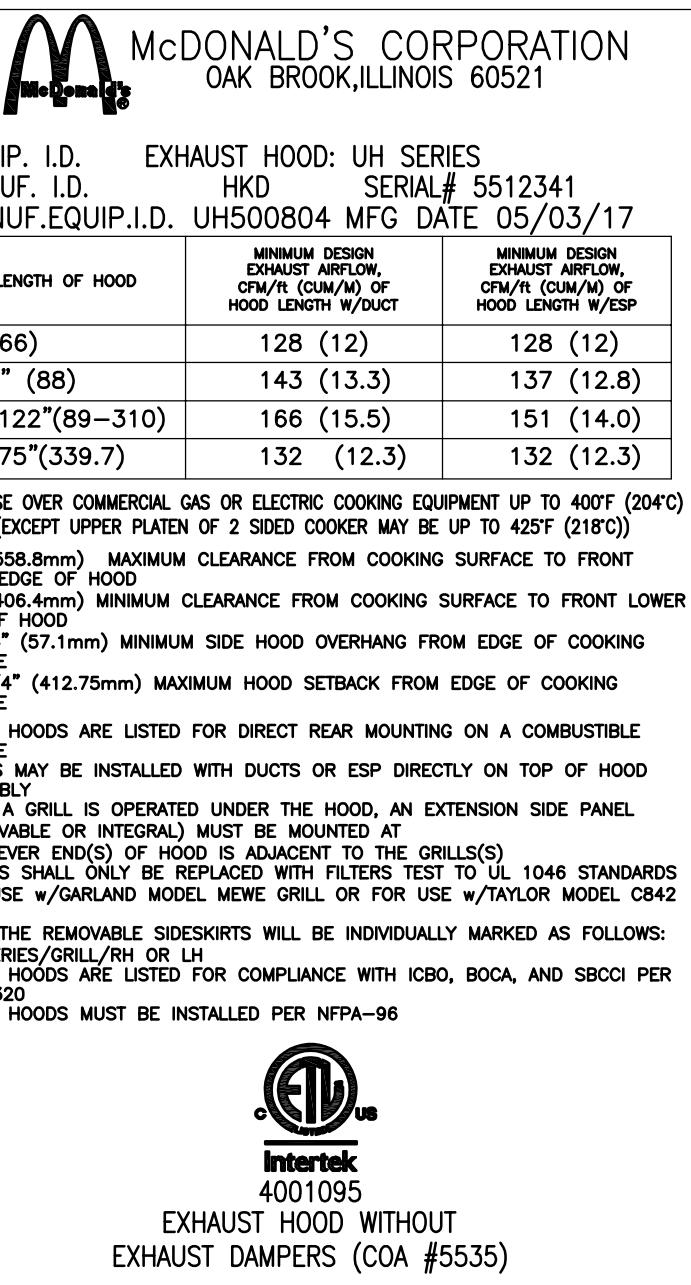
KITCHEN EXHAUST HOOD  
TAG: KH-3 (SEE KITCHEN EXHAUST HOOD SCHEDULE)  
SCALE:  $\frac{1}{2}''=1'-0''$



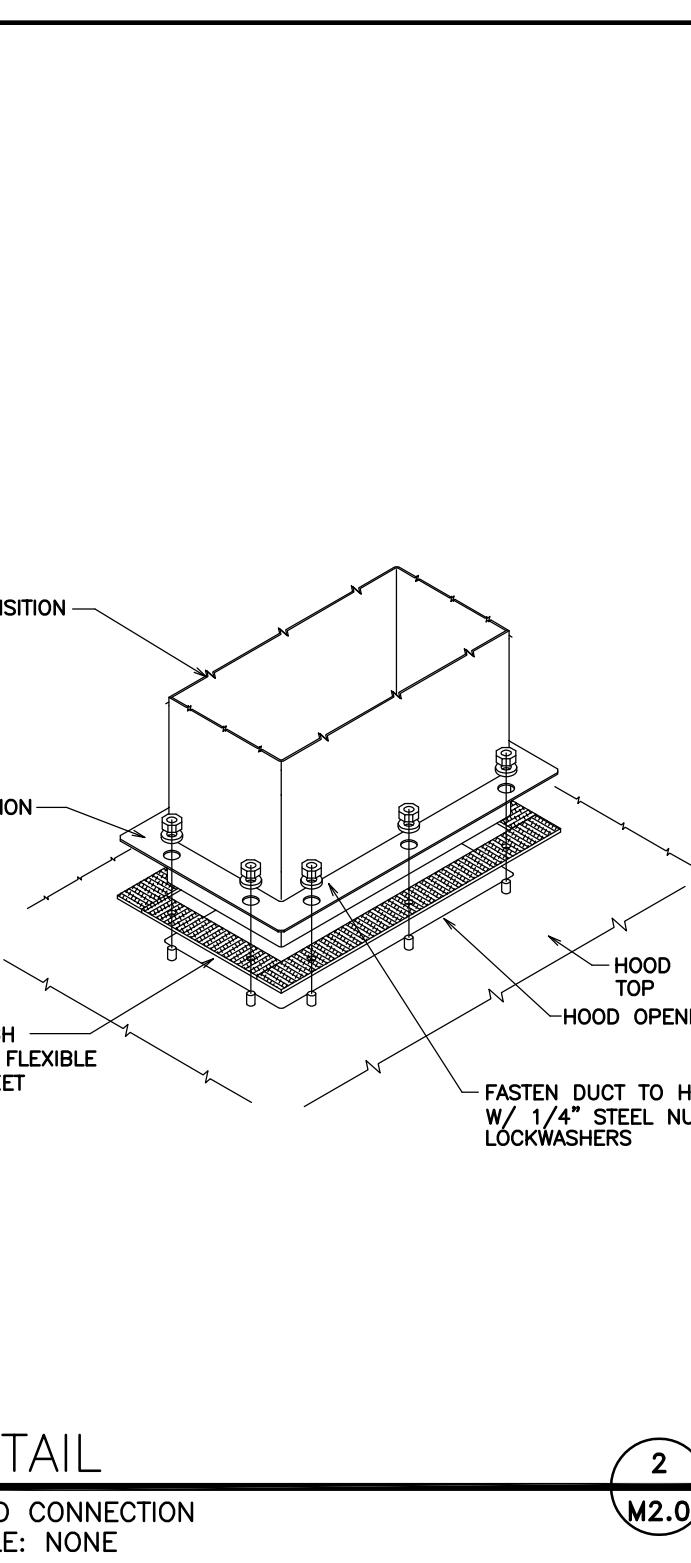
KITCHEN EXHAUST HOOD  
TAG: KH-2, KH-3 (SEE KITCHEN EXHAUST HOOD SCHEDULE)  
SCALE:  $\frac{1}{2}''=1'-0''$



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



DETAIL  
UL LABEL  
SCALE: NONE



DETAIL  
HOOD CONNECTION  
SCALE: NONE

SHEET NO.	TITLE	PREPARED BY:	REVIEWED BY:	APPROVED BY:
015-0071.00.0	M2.0 EXHAUST HOODS	emmanuelson-podas Consulting Engineers	W.W. 01/23/20	W.W. 01/23/20

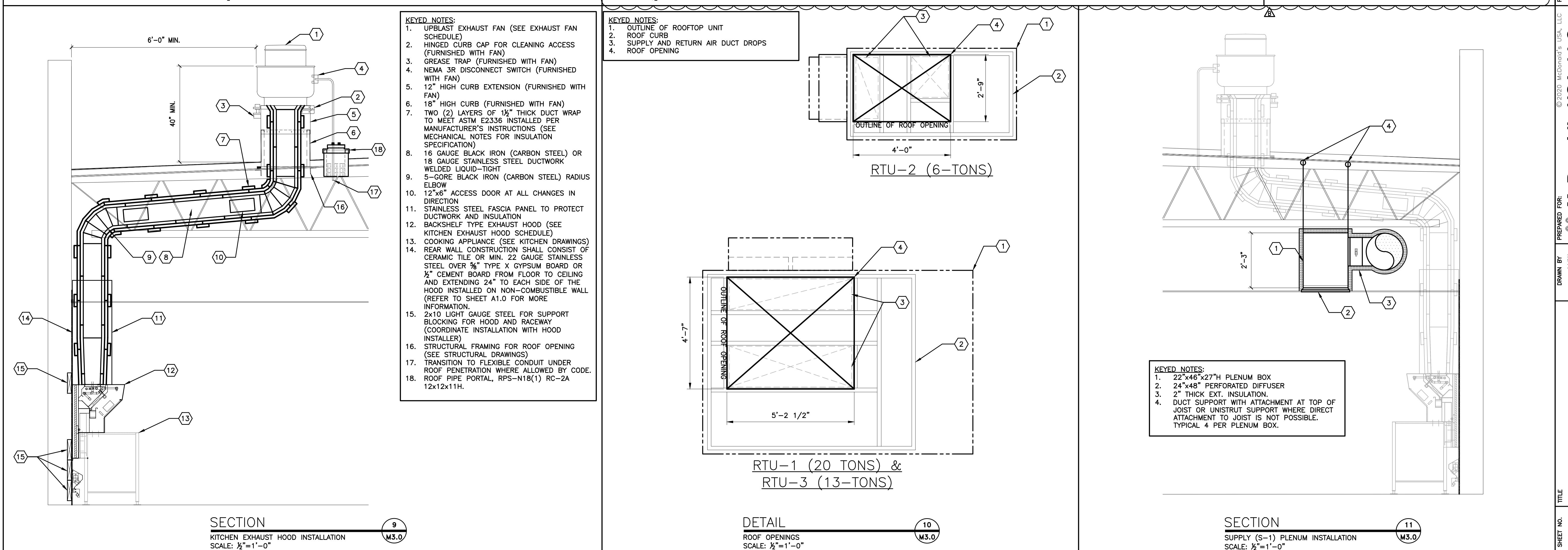
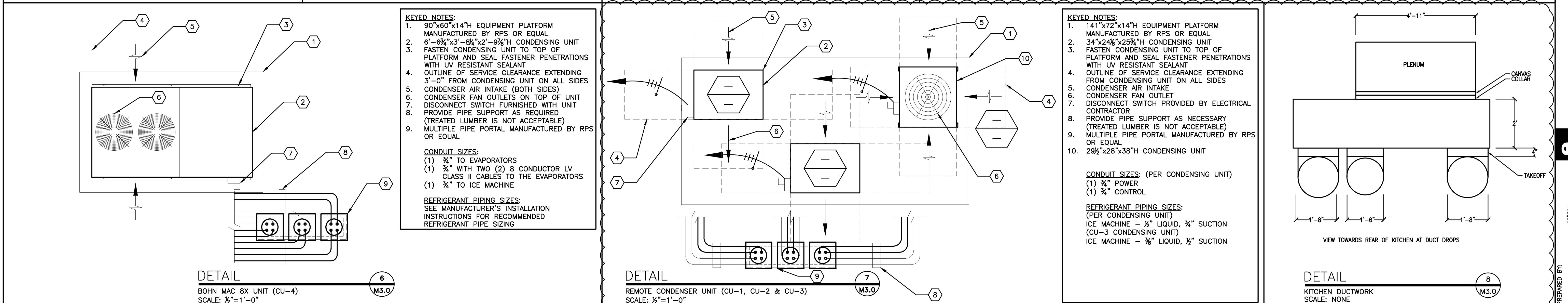
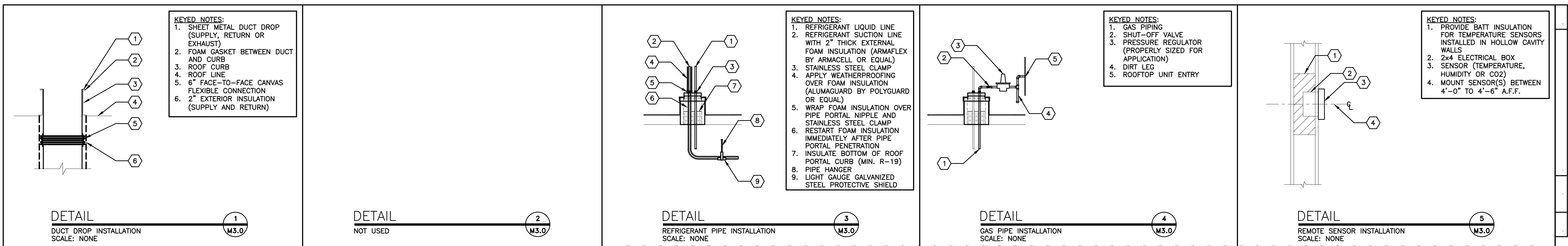
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01/23/20

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OWNER SELECTED EQUIPMENT WITH  
MANUFACTURER CUT SHEET  
FOR INFORMATION PURPOSES ONLY

DRAWING NOTES	
1. 16 GA. STAINLESS STEEL MATERIAL USED FOR HOOD CONSTRUCTION	DRAWN BY: M.J.W
2. FILTER BAFFLE: UL FILE R14372, VOL. 1, SEC. 1 UL CONTROL NUMBER 5L65 MEA-446-92-M	STD ISSUE DATE: 2019-11
3. EXHAUST HOOD: UL FILE MH12755, VOL. 4 UL CONTROL NUMBER 78L1	REVIEWED BY: W.W.
4. UTILITY CHASE AND RACEWAY: UL FILE E163328, VOL.1, SEC.3	DATE ISSUED: 01-23-20
5. HIGH TEMP GASKET: UL FILE MH12755, VOL. 2, SEC. 1, ILL. 9	
6. HOOD CONSTRUCTION COMPLIES WITH NSF STANDARD 2	
7. HOOD PERFORMANCE TESTED IN ACCORDANCE WITH UL 710	
8. UL 300 AND NFPA 17A COMPLIANT R-102 WET CHEMICAL SYSTEM INCLUDED WITH HOOD INSTALLATION	
9. ANSUL CONNECTIONS AND STARTUP BY APPROVED ANSUL REPRESENTATIVE	
10. REFER TO E3.2 FOR HOOD/FAN INTERLOCK DETAILS	R0#1975



SHEET NO.	TITLE	DRAWN BY	PREPARED FOR:
	2019 STANDARD BUILDING - BB20 4597F10-WOOD/WOOD	M.J.W STD ISSUE DATE 2019-11	McDonald's USA, LLC REVIEWED BY W.L.W DATE ISSUED 01-23-20
	WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI WOOD ROOF TRUSS FRAMING FIBER CEMENT PANEL/BATTEN/ALPOLIC PANEL/BRICK EXT. FINISH		
	SITE ID 015-0071	SITE ADDRESS 605 SOUTH 7TH STREET, KANSAS CITY, KS	
			RO#1975

DETAIL BY	KEYED NOTES:
12/03/20	1. PROVIDE BATT INSULATION FOR TEMPERATURE SENSORS INSTALLED IN HOLLOW CAVITY WALLS
11/17/20	2. 2x4 ELECTRICAL BOX
05/05/20	3. SENSOR (TEMPERATURE, HUMIDITY OR CO <sub>2</sub> )
01/23/20	4. MOUNT SENSOR(S) BETWEEN 4'-0" TO 4'-6" A.F.F.
01/13/20	5. ROOFTOP UNIT ENTRY
REV DATE	BY

MECHANICAL NOTES		LEGEND	ABBREVIATIONS																																																																									
<p><b>GENERAL:</b></p> <ol style="list-style-type: none"> <li>ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.</li> <li>ALL DIMENSIONS, CLEARANCES AND TOLERANCES SHALL BE VERIFIED PRIOR TO INSTALLATION.</li> <li>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.</li> <li>ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH ITS LISTING AND/OR THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.</li> <li>SEE COORDINATION SCHEDULE FOR ADDITIONAL SCOPE OF WORK.</li> <li>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: <a href="http://WWW.ABCHQ.COM/DIRECTORY">HTTP://WWW.ABCHQ.COM/DIRECTORY</a>, <a href="http://WWW.NEBC.ORG/DIRECTORY.HTM">HTTP://WWW.NEBC.ORG/DIRECTORY.HTM</a>, <a href="http://WWW.TABCERTIFIED.ORG/SITE/CONTENT/CONTRACTORS/SEARCH">HTTP://WWW.TABCERTIFIED.ORG/SITE/CONTENT/CONTRACTORS/SEARCH</a></li> <li>UPON COMPLETION OF THE PUNCHLIST, THE MECHANICAL CONTRACTOR AND TEST AND BALANCE CONTRACTOR SHALL SUBMIT REDLINED OR AS-BUILT DRAWINGS ALONG WITH THE TEST AND BALANCE REPORT AND ALL EQUIPMENT OPERATION AND MAINTENANCE MANUALS TO THE McDONALD'S AREA CONSTRUCTION MANAGER. A MINIMUM OF TWO (2) COPIES SHALL BE PROVIDED, ONE (1) FOR REGIONAL RECORDS AND ONE (1) FOR THE RESTAURANT.</li> <li>ALL PENETRATIONS OF FIRE-RATED WALLS SHALL BE FIRESTOPPED WITH AN APPROVED AND LISTED FIRESTOPPING SYSTEM.</li> <p><b>VENTILATION SYSTEMS:</b></p> <ol style="list-style-type: none"> <li>ALL SHEET METAL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH LOCAL CODES AND SMACNA STANDARDS.</li> <li>ALL DUCTWORK DIMENSIONS ARE INTERNAL FREE AREA DIMENSIONS AND SIZED FOR 0.1" W.C. PER 100 FT. OF DUCT.</li> <li>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.</li> <li>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.</li> <li>ALL DUCT DROPS INTO THE BUILDING SHALL BE OFFSET AS NECESSARY TO ALLOW FOR THE CLEAR INSTALLATION OF THE EXTERNAL DUCTWORK INSULATION.</li> <li>ALL DUCTWORK BRANCHES SHALL BE SUPPLIED WITH A VOLUME DAMPER FOR BALANCING. VOLUME DAMPER SHALL HAVE A 2" OFFSET TO ACCOMMODATE EXTERNAL INSULATION.</li> <li>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.</li> <li>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.</li> <li>ALL SUPPLY AND RETURN SHEET METAL DUCTWORK LOCATED WITHIN THE CEILING SPACE SHALL BE EXTERNALLY INSULATED. INSULATION SHALL BE 2" THICK MICROLITE XG-100 BY JOHNS MANVILLE OR EQUAL.</li> <li>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 1/2" THICK RIGID POLYSTYRENE, POLYURETHANE OR POLYISOCYANURATE BOARD (MIN. R-7.5). INTERNAL FIBERGLASS INSULATION SHALL BE LINATEX BY JOHNS MANVILLE OR EQUAL. EXTERNAL RIGID BOARD INSULATION SHALL BE THERMAPINK BY OWENS CORNING OR EQUAL.</li> <li>ALL EXPOSED SPIRAL DUCTWORK SHALL BE INTERNALLY INSULATED TO PREVENT CONDENSATION (MIN. R-4.3). INTERNAL INSULATION SHALL BE 1" THICK SPIRACOUSTIC PLUS BY JOHNS MANVILLE OR EQUAL.</li> <li>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.</li> <li>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 BARIER BY POLYGUARD OR EQUAL. BOTTOM OF EXTERNAL WEATHERPROOFING SHALL BE VAPORGUARD 5 MIL MEMBRANE BY POLYGUARD OR EQUAL.</li> <li>ALL FLEXIBLE DUCTWORK, METALLIC AND NONMETALLIC, SHALL CONFORM TO THE FOLLOWING: <ul style="list-style-type: none"> <li>A. 2" THICK INSULATION (R-6.0)</li> <li>B. INTEGRAL VAPOR BARRIER</li> <li>C. LISTED AND LABELED UL 181, CLASS 0 OR CLASS 1</li> <li>D. INSTALLED IN ACCORDANCE WITH: <ul style="list-style-type: none"> <li>i. SMACNA STANDARDS,</li> <li>ii. AIR DIFFUSION COUNCIL INSTALLATION GUIDELINES, AND/OR</li> <li>iii. MANUFACTURER'S INSTALLATION INSTRUCTIONS</li> </ul> </li> </ul> </li> <li>FLEXIBLE DUCTWORK SHALL NOT PENETRATE WALLS. SHEET METAL DUCTWORK IS REQUIRED AT ALL FIRE-RATED AND DRAFTSTOP WALL PENETRATIONS.</li> <li>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.</li> <li>DUCT-MOUNTED SMOKE DETECTORS 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.</li> <li>ALL SUPPLY AIR DIFFUSERS SHALL BE INSULATED TO PREVENT CONDENSATION.</li> <li>ALL AIR DEVICES LOCATED IN DRYWALL CEILINGS SHALL BE SUPPLIED WITH AN INTEGRAL VOLUME DAMPER ACCESSIBLE FROM THE AIR DEVICE FACE TO FACILITATE BALANCING.</li> <li>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.</li> </ol> </ol>		<p><b>GENERAL:</b></p> <ol style="list-style-type: none"> <li>GRILL - 6" W.C. NATURAL, 14" W.C. L.P.</li> <li>FRYER - 6" W.C. NATURAL, 14" W.C. L.P.</li> <li>WATER HEATER - 6" W.C. NATURAL, 14" W.C. L.P.</li> <li>HVAC UNIT - 6" W.C. NATURAL, 14" W.C. L.P.</li> <li>IF THE MINIMUM PRESSURES ARE NOT MET, THIS SHALL BE IMMEDIATELY REPORTED TO THE McDONALD'S AREA CONSTRUCTION MANAGER.</li> <p><b>COMMERCIAL KITCHEN EXHAUST SYSTEMS:</b></p> <ol style="list-style-type: none"> <li>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).</li> <li>ALL GREASE EXHAUST DUCTWORK JOINTS SHALL BE EITHER TELESCOPING OR BELL TYPE. BUTT-WELDED JOINTS ARE PROHIBITED.</li> <li>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.</li> <li>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.</li> <li>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".</li> <li>ALL HORIZONTAL GREASE EXHAUST DUCTWORK SHALL BE INSTALLED WITH A MINIMUM 1/4" PER FOOT SLOPE AND SHALL BE PITCHED BACK TOWARD THE HOOD.</li> <li>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.</li> <p><b>REFRIGERANT PIPING:</b></p> <ol style="list-style-type: none"> <li>ALL REFRIGERATION WORK SHALL BE PERFORMED BY A CERTIFIED REFRIGERATION CONTRACTOR.</li> <li>ALL REFRIGERANT PIPING SHALL BE SEAMLESS COPPER TUBING OF TYPE L IN ACCORDANCE WITH ASTM B 88 AND ALL JOINTS SHALL BE SOLDERED.</li> <li>ALL REFRIGERANT SUCTION LINES SHALL BE INSULATED WITH A MINIMUM 1" FOAM PIPE INSULATION. PIPE INSULATION INSTALLED OUTDOORS SHALL BE PROTECTED WITH AN APPROVED WEATHERPROOFING MATERIAL.</li> <li>ALL SUSPENDED REFRIGERANT PIPING SHALL BE SUPPORTED AS FOLLOWS:</li> <table border="1"> <thead> <tr> <th>MATERIAL</th> <th>MAX. HORIZ. SPACING</th> <th>MAX. VERT. 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RADIUS OF THE CO2 STORAGE TANKS.</li> <li>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.</li> <li>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.</li> </ol> <p><b>NATURAL GAS SYSTEMS (IF APPLICABLE):</b></p> <ol style="list-style-type: none"> <li>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.</li> <li>THE NATURAL GAS MAIN PIPE SIZING IS BASED ON THE FOLLOWING: <ul style="list-style-type: none"> <li>A. MINIMUM SUPPLY PRESSURE AT THE METER OF 2" PSIG</li> <li>B. 1" PSIG PRESSURE DROP FROM METER TO FARDEST APPLIANCE</li> <li>C. 1,000 BTU PER CU. FT. OF NATURAL GAS</li> </ul> </li> <li>GAS PIPING RUN-OUTS TO EQUIPMENT ARE SIZED BASED ON THE FOLLOWING: <ul style="list-style-type: none"> <li>A. SUPPLY PRESSURE AT THE REGULATOR OF 10" W.C. (4" PSIG)</li> <li>B. 0.5" W.C. PRESSURE DROP FROM REGULATOR TO FARDEST APPLIANCE</li> <li>C. 1,000 BTU PER CU. FT. OF NATURAL GAS</li> </ul> </li> <li>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.</li> <li>NATURAL GAS PRESSURE REGULATORS SHALL BE MAXITROL 325 SERIES OR EQUAL.</li> <li>ALL SUSPENDED STEEL PIPING SHALL BE SUPPORTED AS FOLLOWS:</li> <table border="1"> <thead> <tr> <th>SIZE</th> <th>MAX. HORIZ. SPACING</th> <th>MAX. VERT. 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ABOVE THE INTAKE.</li> <li>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.</li> <li>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:</li> </ol> </ol></ol></ol>	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.	SIZE	MAX. HORIZ. SPACING	MAX. VERT. 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MICHAEL WEBER  
LICENSED  
KANSAS  
PROFESSIONAL ENGINEER  
01/23/20

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PREPARED FOR:  
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DRAWN BY: M.J.W.  
STD ISSUE DATE: 2019-11  
REVIEWED BY: W.L.W.  
DATE ISSUED: 01-23-20  
SHEET NO. 015-0071.00.0  
TITLE: 2019 STANDARD BUILDING - BB20  
DESCRIPTION: 4597F10-WOOD/WOOD  
WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI  
FIBER CEMENT PANEL/BATTEN/ALPOLIC PANEL/BRICK EXTER. FINISH  
SITE ID: 015-0071  
SITE ADDRESS: 605 SOUTH 7TH STREET, KANSAS CITY, KS  
REV. DATE: 01/13/20  
USD/RD: PROGRESS SET REVIEW  
BY: REV. DATE: 01/23/20

**M4.0**  
GENERAL NOTES

## COORDINATION SCHEDULE

	FURNISH	INSTALL	FINAL CONNECTION	NOTES
GENERAL REQUIREMENTS				1-3
MECHANICAL PERMIT	MC			1-3
HOT WORK (WELDING) PERMIT (IF APPLICABLE)	KES			1-3
REFRIGERATION PERMIT (IF APPLICABLE)	MC			1-3
PLUMBING PERMIT	PC			1-3
ELECTRICAL PERMIT	EC			1-3
FIRE SPRINKLER PERMIT (IF APPLICABLE)	FPC			1-3
FIRE ALARM PERMIT (IF APPLICABLE)	FAC			1-3
CONTRACTOR COORDINATION REQUIREMENTS				
HEATING & AIR-CONDITIONING				
ROOFTOP UNITS, INTAKE AND RELIEF	MC	MC		1-5, 17, 22
ROOF CURBS	MC	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	MC	MC		1-3, 17, 22
ROOF CURBS	MC	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				
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	PC	PC	PC	1-3, 11-12, 23
HOT AND COLD WATER PIPE	PC	PC	PC	1-3, 23
VENTS AND INTAKES	PC	PC	PC	1-3, 23
THERMOSTATIC MIXING VALVE	PC	PC	PC	1-3, 23
POWER AND CONTROL WIRING	EC	EC	EC	1-3, 23-24
KITCHEN EXHAUST SYSTEMS				
MCDONALD'S BACKSHELF EXHAUST HOODS	KES	KEI		1-3, 6, 22, 27
CANOPY EXHAUST HOODS (IF APPLICABLE)	KES	KEI		1-3, 6, 22, 27
BLACK IRON DUCTWORK	KES	KEI		1-3, 6, 22
STAINLESS STEEL DUCTWORK (IF APPLICABLE)	KES	KEI		1-3, 6, 22
ALUMINUM DUCTWORK (IF APPLICABLE)	KES	KEI		1-3, 6, 22
UL LISTED DUCT WRAP	MC	MC		1-3, 6, 22
FIRE-RATED DUCT ENCLOSURE (IF APPLICABLE)	GC	GC		1-3, 6, 20, 22
EXHAUST FANS	MC	MC		1-3, 6, 17, 22
ROOF CURBS	MC	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
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EVAPORATOR COILS	KES	MC		1-3, 27
CONDENSATE PIPING	PC	PC	PC	1-3, 23, 27
REMOTE CONDENSING UNIT (MAC)	KES	MC		1-3, 22, 27
ROOF CURBS	MC	MC		1-3, 22
REFRIGERANT PIPING	KES	MC	MC	1-3, 22, 27
POWER WIRING	EC	EC	EC	1-3, 22, 24, 27
CONTROL WIRING	EC	EC	EC	1-3, 24, 27
PIPE PORTALS	MC	MC		1-3, 22
ICE MACHINES	KES	KEI		1-3, 27
WATER SUPPLY PIPING	KES	KEI	BSI	1-3, 27
REMOTE CONDENSING UNITS	KES	MC		1-3, 22, 27
ROOF CURBS	MC	MC		1-3, 22, 27
REFRIGERANT PIPING	KES	MC	MC	1-3, 22, 27
POWER WIRING	EC	EC	EC	1-3, 22, 24, 27
CONTROL WIRING	KES	EC	EC	1-3, 24, 27
PIPE PORTALS	MC	MC		1-3, 22
GAS PIPING (IF APPLICABLE)	KES	EC	EC	1-3, 24, 27
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	PC	PC		1-3, 23, 27
FAUCET	PC	PC		1-3, 23, 27
WATER SUPPLY PIPING	PC	PC	PC	1-3, 23, 27
SANITARY DRAIN PIPING	PC	PC	PC	1-3, 23, 27
VEGETABLE SINK	KES	KES		1-3, 23, 27
FAUCET	KES	KES		1-3, 23, 27
WATER SUPPLY PIPING	PC	PC	PC	1-3, 23, 27
SANITARY DRAIN PIPING	PC	PC	PC	1-3, 23, 27
WASHING MACHINE	KES	KES		1-3, 23, 27
WATER SUPPLY PIPING	PC	PC	PC	1-3, 23, 27
SANITARY DRAIN PIPING	PC	PC	PC	1-3, 23, 27
WARE WASHER	KES	KES		1-3, 23, 27
WATER SUPPLY PIPING	PC	PC	PC	1-3, 23, 27
SANITARY DRAIN PIPING	PC	PC	PC	1-3, 23, 27
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APPLIANCE BACKFLOW PREVENTION	KES/BSI	PC	PC	1-3, 23, 27
CO2 DETECTION SYSTEM	MC	EC	EC	1-3, 22, 27

## AIR DEVICE SCHEDULE

## AIR DEVICE SCHEDULE

TAG	MANUFACTURER	MODEL	BORDER	SIZE	COLOR	ACCESSORIES	NOTES
S-1	TITUS	PDR	LAY-IN	48x24	WHITE	7	1,2
S-2	TITUS	SPD	LAY-IN	24x24	VARIABLE	4,6,7	1,6,7
S-3	TITUS	SPD	LAY-IN	12x12	VARIABLE	1,2,7	1,3,6
S-5	TITUS	TBDI-80	LAY-IN	(1) 48" SLOT	VARIABLE	7	1,5,6
R-1	TITUS	60L	LAY-IN	24x24	VARIABLE	3,7	1,6
E-1	TITUS	60L	LAY-IN	12x12	WHITE	1,7	1

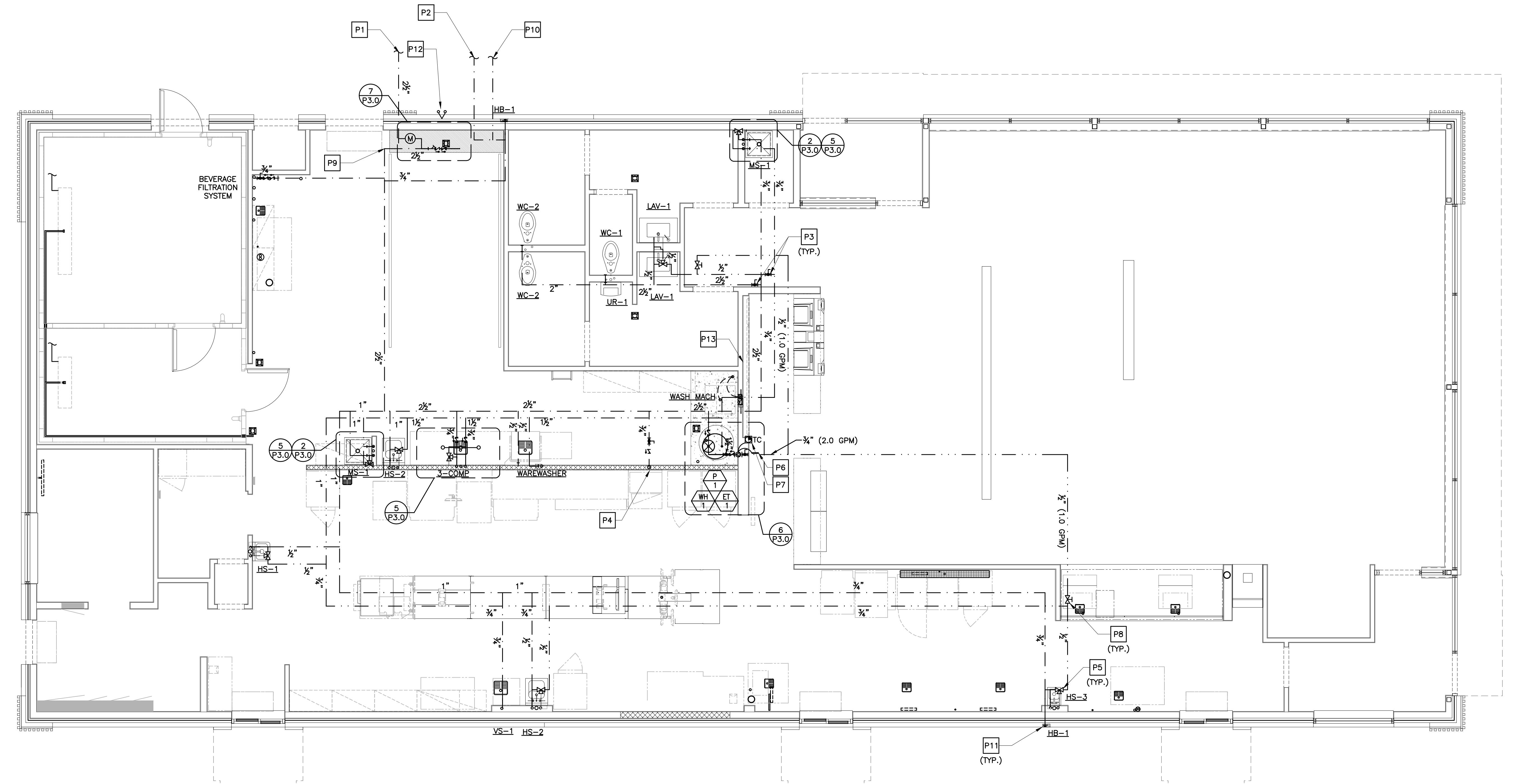
**NOTES:**

- 1. THIS SCHEDULE IS INTENDED AS A GUIDE FOR THE WORK TO BE PERFORMED. ALL WORK SHALL BE COORDINATED BETWEEN THE McDONALD'S AREA CONSTRUCTION MANAGER AND ALL GC AND O/O SUBCONTRACTORS.
- 2. ONE (1) COPY OF THE DECOR PACKAGE DRAWINGS SHALL BE SUPPLIED TO THE GENERAL CONTRACTOR AND EACH OF THE SUBCONTRACTORS. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND THE SUBCONTRACTORS TO INSURE THAT THEY HAVE RECEIVED THE DECOR PACKAGE DRAWINGS.
- 3. FOR ANY WORK NOT CLARIFIED IN THIS SCHEDULE OR IN THE NOTES AND SPECIFICATIONS, PLEASE CONSULT THE McDONALD'S AREA 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 SINGLE CRANE LIFT. EQUIPMENT SITE ARRIVAL DATE SHALL BE COORDINATED WITH THE AREA 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.
- 6. ALL KITCHEN EQUIPMENT REQUIRING EXHAUST SHALL BE INSTALLED IN ACCORDANCE WITH THESE PLANS. ANY VARIATION FROM THESE PLANS SHALL BE REPORTED TO THE AREA 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.
- 12. THE AREA CONSTRUCTION MANAGER, PLUMBING CONTRACTOR AND KITCHEN EQUIPMENT SUPPLIER SHALL COORDINATE WHICH 3-COMPARTMENT SINK IS BEING INSTALLED IN THE RESTAURANT. NOTE: THE INSTALLATION OF A POWERSAVER SINK REQUIRES A LARGER WATER HEATER THAN THE STANDARD 3-COMPARTMENT SINK.
- 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. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 21. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 22. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 23. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- 24. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 25. SEE FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.
- 26. SEE FIRE ALARM DRAWINGS FOR ADDITIONAL INFORMATION.
- 27. SEE KITCHEN DRAWINGS FOR ADDITIONAL INFORMATION.
- 28. SEE DECOR DRAWINGS FOR ADDITIONAL INFORMATION.

## CONTROLS

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL


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1 DOMESTIC WATER PIPING PLAN  
P1.0 1/4"=1'-0"

### DRAWING NOTES

1. PIPING ROUTES AS SHOWN ARE GENERAL AND MAY VARY DUE TO FIELD CONDITIONS. COORDINATE ALL PIPE ROUTES WITH OTHER TRADES.
2. ALL WATER DISTRIBUTION PIPING SHALL BE INSULATED. INSULATION NOT SHOWN FOR CLARITY. SEE PLUMBING NOTES FOR INSULATION REQUIREMENTS.
3. ALL OUTDOOR UTILITIES MOUNTED ON THE WALL MUST BE PAINTED TO MATCH THE BUILDING

DRAWINGS AND SPECIFICATIONS ARE TO BE CONSIDERED AS SUPPLEMENTING EACH OTHER. WORK SPECIFIED BUT NOT SHOWN ON DRAWINGS, OR SHOWN ON DRAWINGS BUT NOT SPECIFIED, SHALL BE PERFORMED OR FURNISHED AS THOUGH MENTIONED IN BOTH SPECIFICATIONS AND DRAWINGS. IF NOT OTHERWISE DIRECTED, INSTALLATION OF ALL SYSTEMS AND EQUIPMENT SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. WHERE WORK DESCRIBED IN THE SPECIFICATIONS IS IN CONFLICT WITH THE WORK SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL SUPPLY THE GREATER QUANTITY, QUALITY AND COST VIA THE BID AND CONTACT THE ENGINEER FOR CLARIFICATION ON DIRECTION PRIOR TO INSTALLATION.

PRIOR TO BID, THE CONTRACTOR SHALL REVIEW THE MECHANICAL, ELECTRICAL AND KITCHEN EQUIPMENT DRAWINGS. THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL RELEVANT WORK IN THE ENTIRE SET OF DOCUMENTS AND REPORT ALL DISCREPANCIES BETWEEN THESE DRAWINGS TO THE ENGINEER PRIOR TO BIDDING FOR CLARIFICATION. DISCREPANCIES REMAIN UNRESOLVED DUE TO A SHORT TIME FRAME, THE CONTRACTOR SHALL INCLUDE THE MOST WORK AND THE HIGHER COSTS IN THE BID. SOLUTIONS TO UNREPORTED DISCREPANCIES WILL BE DETERMINED BY THE ARCHITECT/ENGINEER, WITH NO ADDITIONAL COMPENSATION DUE TO THE CONTRACTOR.

### KEYED NOTES

- P1 INCOMING UNDERGROUND WATER SERVICE (SEE SITE PLAN FOR CONTINUATION). WATER PIPING FROM THIS POINT TO CEILING PENETRATION INSIDE BUILDING SHALL BE COPPER.
- P2 COLD WATER UNDERGROUND TO YARD HYDRANT (HB-2) IN TRASH CORRAL. SEE SITE PLAN FOR CONTINUATION.
- P3 SHUT-OFF VALVE FOR RESTROOM AND HOSE BIBB ISOLATION. SEE VALVE SCHEDULE. ALL LOCATE IN AREAS WITH DRYWALL CEILINGS.
- P4 1/4" COLD WATER UP TO ROOF HYDRANT.
- P5 MIXING VALVE LOCATIONS SHOWN FOR INFORMATIONAL PURPOSES. SEE DETAIL 3 ON DRAWING P3.0 FOR MIXING VALVE INSTALLATION DETAILS.
- 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 WHERE PERMITTED BY CODE.
- P10 VERIFY IRRIGATION SYSTEM, PROVIDE WATER LINE WITH BACKFLOW PREVENTER, VERIFY EXACT LOCATION WITH LANDSCAPE. 1" SEWER DEDUCT METER AND BACKFLOW ASSEMBLY.
- P11 PROVIDE FREEZE PROOF HYDRANT.

FIRE DEPARTMENT SIAMESE CONNECTION. SPRINKLER CONTRACTOR SHALL ROUTE LINE IN ACCESSIBLE CEILING SPACE FROM CONNECTION TO FIRE SPRINKLER SERVICE. MAKE ALL CONNECTIONS REQUIRED. VERIFY PIPE SIZE AND LOCATION OF SIAMESE WITH CIVIL AND FIRE MARSHALL. PROVIDED BY OTHERS. COORDINATE LOCATION OF SIAMESE CONNECTION WITH FIRE SPRINKLER SHEETS.

P13 PROPERLY SEAL ALL PIPE PENETRATIONS THROUGH ANY FIRE WALL(TYP)

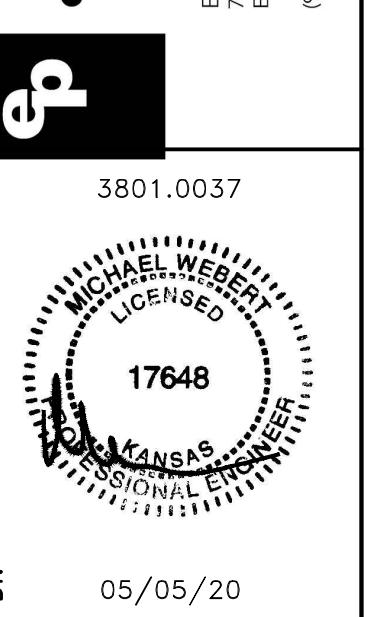
### SUPPLY PIPE SIZING - UPC

Fixture Type	SIZE	SUPPLY HW	SUPPLY CW	QUANTITY	TOTAL
URINAL	1 IN.	0	20	1	20
WATER CLOSET	1 IN.	0	90	3	90
LAVATORY SINK	1/2 IN.	1	1	2	2
WASH SINK (HAND SINK)	1/2 IN.	2	2	4	8
MOP SINK	3/4 IN.	3	3	2	6
VEGETABLE SINK	3/4 IN.	0	3	1	3
3-COMP SINK	3/4 IN.	3	3	1	3
WASHING MACHINE	3/4 IN.	4	4	1	4
DISH WASHER	3/4 IN.	1.5	1.5	1	3
HOSE BIB	3/4 IN.	0	2.5	4	5.5
LAWN SPRINKLER	1/2 IN.	0	1	4	4
WATER FILTRATION SYSTEM	3/4 IN.	0	1	3	3
CLEANING FAUCET	1/2 IN.	2	2	0	0
TOTAL					151.5

IF YOU HAVE ANY QUESTIONS REGARDING THE PLANS, PLEASE CALL THE DESIGNER.

DESIGNER: Wendy Wenborg  
PHONE/FAX: 952-540-4047  
EMAIL: wwwenborg@epinc.com

PREPARED BY:	emmanuelson-podas
CONSULTING ENGINEERS	Emmanuelson-Podas, Inc. Edina, MN 55439 (612) 990-0050   www.epinc.com
DATE:	05/05/20
REV:	01/13/20
DESCRIPTION:	BY



05/05/20

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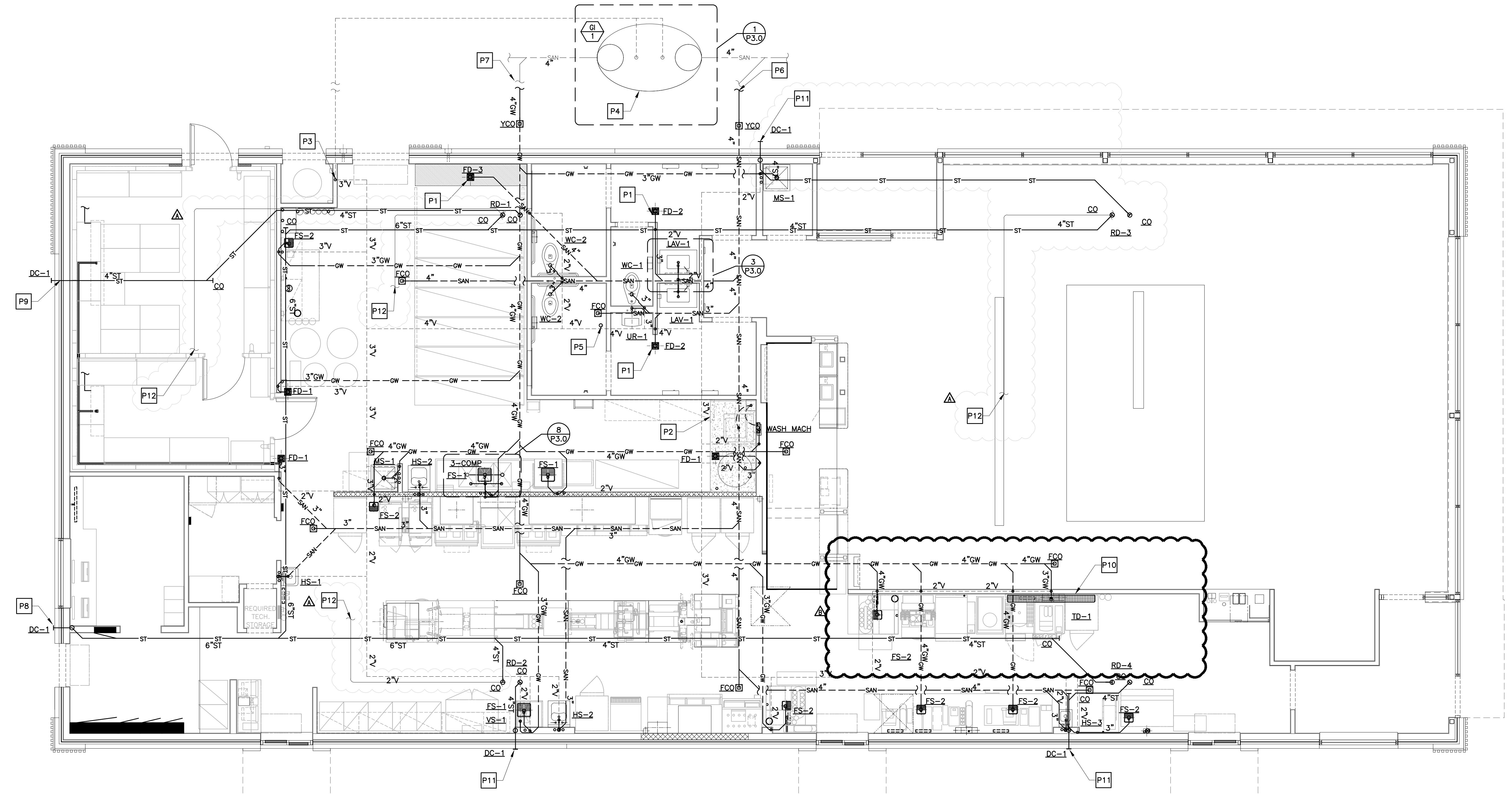
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DRAWN BY: M.J.W.  
STD ISSUE DATE: 2019-11  
REVIEWED BY: W.L.W.  
DATE ISSUED: 01-23-20  
FILE# 19175  
TITLE: 2019 STANDARD BUILDING - BB20  
DESCRIPTION: DECK BEARING WALLS W/ FIBER CEMENT SIDING & CI  
WATER ROOF TRUSS FRAMING  
FIBER CEMENT PANEL/BATTEN/ALPOLIC PANEL/BRICK EXT. FINISH  
SITE ID: 015-0071  
SITE ADDRESS: 605 SOUTH 7TH STREET, KANSAS CITY, KS

SHEET NO. P1.0  
DOMESTIC WATER PIPING



1 WASTE & VENT PIPING PLAN  
P1.2 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 PROVIDE PROSET TRAP GUARD® OR TRAP PRIMER FOR FLOOR DRAIN OR FLOOR SINK.
- P2 TOP OF CONCRETE SLAB IS 0'-6" A.F.F.
- P3 VENT FROM GREASE INTERCEPTOR. SEE SITE PLAN FOR CONTINUATION. COORDINATE PIPE ROUTING WITH LOCATION OF GREASE INTERCEPTOR.
- P4 GREASE INTERCEPTOR LOCATION SHOWN FOR REFERENCE ONLY. COORDINATE GREASE INTERCEPTOR LOCATION WITH CIVIL ENGINEER AND SITE CONTRACTOR.
- P5 4"x5" VENT THROUGH ROOF
- P6 SANITARY LINE TO SANITARY SEWER. SEE SITE PLAN FOR CONTINUATION.
- P7 GREASE LINE TO EXTERIOR GREASE INTERCEPTOR. SEE SITE PLAN FOR CONTINUATION
- P8 TERMINATE BOTTOM OF PRIMARY STORM DRAIN A MINIMUM OF 12" ABOVE GRADE WITH DOWNSPOUT COVER.
- P9 TERMINATE OVERFLOW DRAIN AS HIGH AS POSSIBLE WITH DOWNSPOUT COVER.
- P10 REFERENCE MANUFACTURER INSTALLATION GUIDE FOR LAYOUT GUIDELINES PRIOR TO INSTALL AND POURING THE SLAB
- P11 TERMINATE BOTTOM OF OVERFLOW DRAIN A MINIMUM OF 12" ABOVE GRADE WITH DOWNSPOUT COVER.
- P12 ROUTE CONDENSATE TO ROOF DRAIN AS SHOWN

#### WASTE PIPE SIZING - UPC

Fixture Type	TRAP SIZE	DFU	QUANTITY	TOTAL
URINAL	2 IN.	2	1	2
WATER CLOSET	3 IN.	4	3	12
LAVATORY SINK	1 1/4 IN.	1	2	2
WASH SINK (HAND SINK)	1 1/2 IN.	2	4	8
FLOOR DRAIN OR SINK	3 IN.	6	5	30
FLOOR DRAIN OR SINK	4 IN.	8	1	8
FLOOR DRAIN EMERGENCY	3 IN.	0	0	0
TOTAL				62

#### GREASE PIPE SIZING - UPC

MOP SINK	3 IN.	3	2	6
FLOOR DRAIN OR SINK	3 IN.	6	10	60
TRENCH DRAIN	4 IN.	8	1	8
WASHING MACHINE	2 IN.	1	3	3
TOTAL				77

#### STORM PIPE SIZING

RAINFALL = 4 IN./HR  
VERTICAL LEADERS

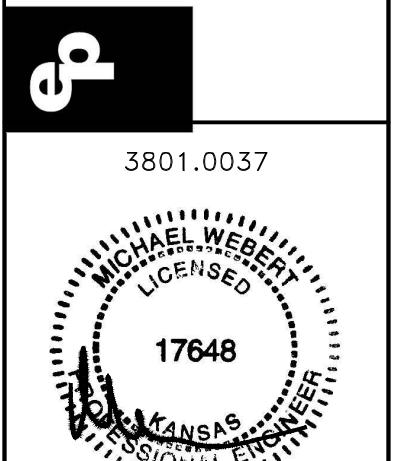
ROOF AREA	SIZE
RD-1	1,345
RD-2	1,340
RD-3	1,145
RD-4	1,145
TOTAL	4,975

#### HORIZONTAL PIPING (SLOPE X" PER FOOT)

ROOF AREA	SIZE
RD-1	1,345
RD-2	1,340
RD-3	1,145
RD-4	1,145
TOTAL	4,975

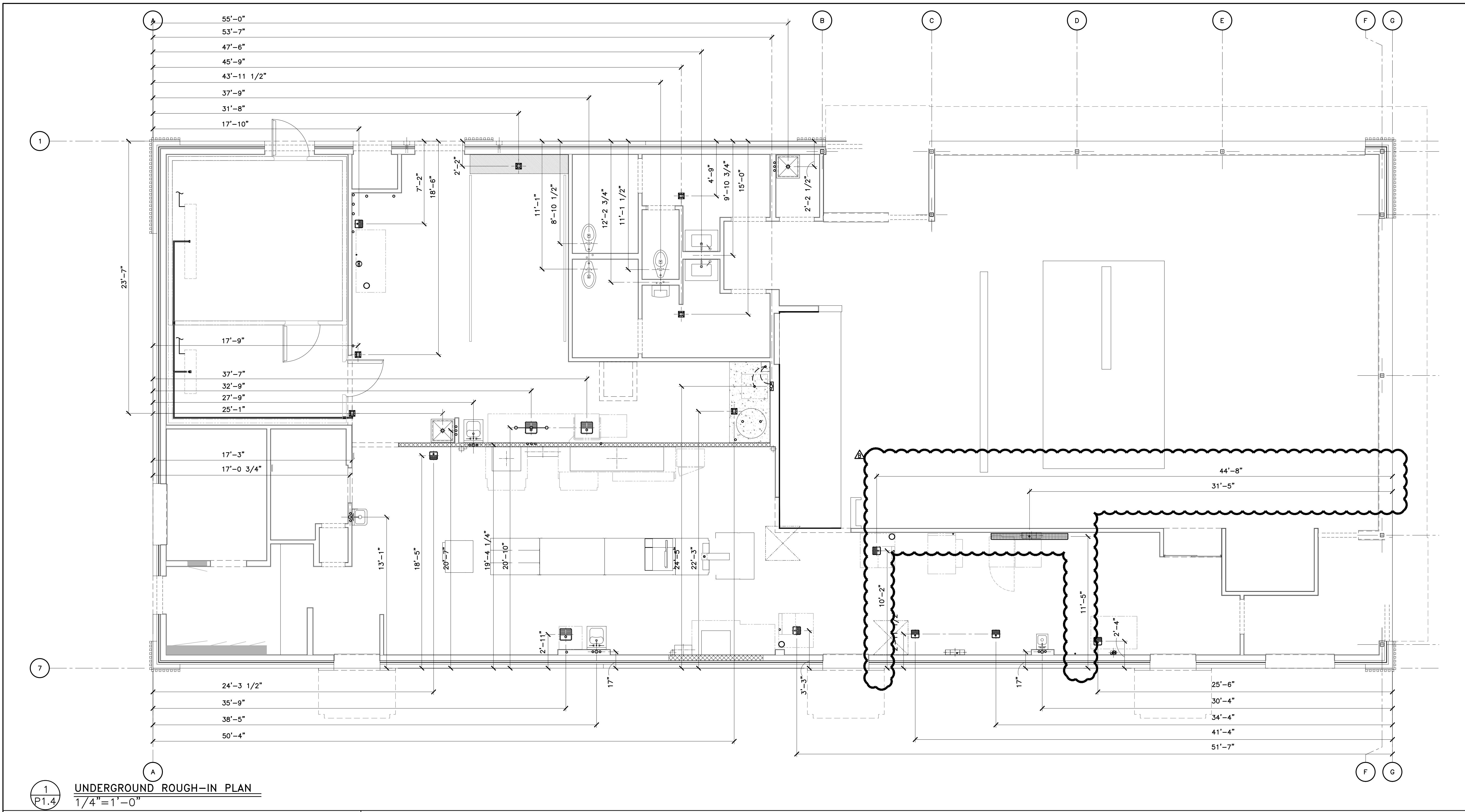
DESCRIPTION	REV DATE
W.L.W. SERVICE AREA OPTIMIZATION	12/03/20
W.L.W. USD: SAO SET REVIEW	11/13/20
W.L.W. CIVIL & PLAN REVIEW COMMENTS	05/05/20
W.L.W. PERMIT SET	01/23/20
W.L.W. PROGRESS SET REVIEW	01/13/20
W.L.W. REV DATE	

emmanuelson-podas consulting engineers  
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Michael Weber  
LICENSED  
17648  
KANSAS STATE BOARD OF ENGINEERS  
12/03/20



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TITLE	STD ISSUE DATE	REVIEWED BY	DATE ISSUED	DESCRIPTION
2019 STANDARD BUILDING - BB20	2019-11	W.L.W.	01-23-20	4597F10-WOOD/WOOD
DESCRIPTION				WOOD BEARING WALLS W/ FIBER CEMENT SIDING & CI WOOD ROOF TRUSS FRAMING FIBER CEMENT PANEL/BATTEN/ALPOLIC PANEL/BRICK EXT. FINISH
SITE ID				SITE ADDRESS 605 SOUTH 7TH STREET, KANSAS CITY, KS
SHEET NO.				015-0071.00.B <b>P1.2</b> WASTE, VENT & STORM PIPING



DRAWING NOTES	
1. THIS PLAN IS PROVIDED AS A GUIDE FOR THE PLUMBING CONTRACTOR. ALL DIMENSIONS ARE ROUNDED TO THE NEAREST $\frac{1}{4}$ ", AND ARE TAKEN FROM ARCHITECTURAL GRID LINES.	

SEE SHEET P1.6 FOR OVERHEAD  
DIMENSIONS AND PLUMBING SCHEDULE.

**P1.4**  
UNDERGROUND ROUGH-IN

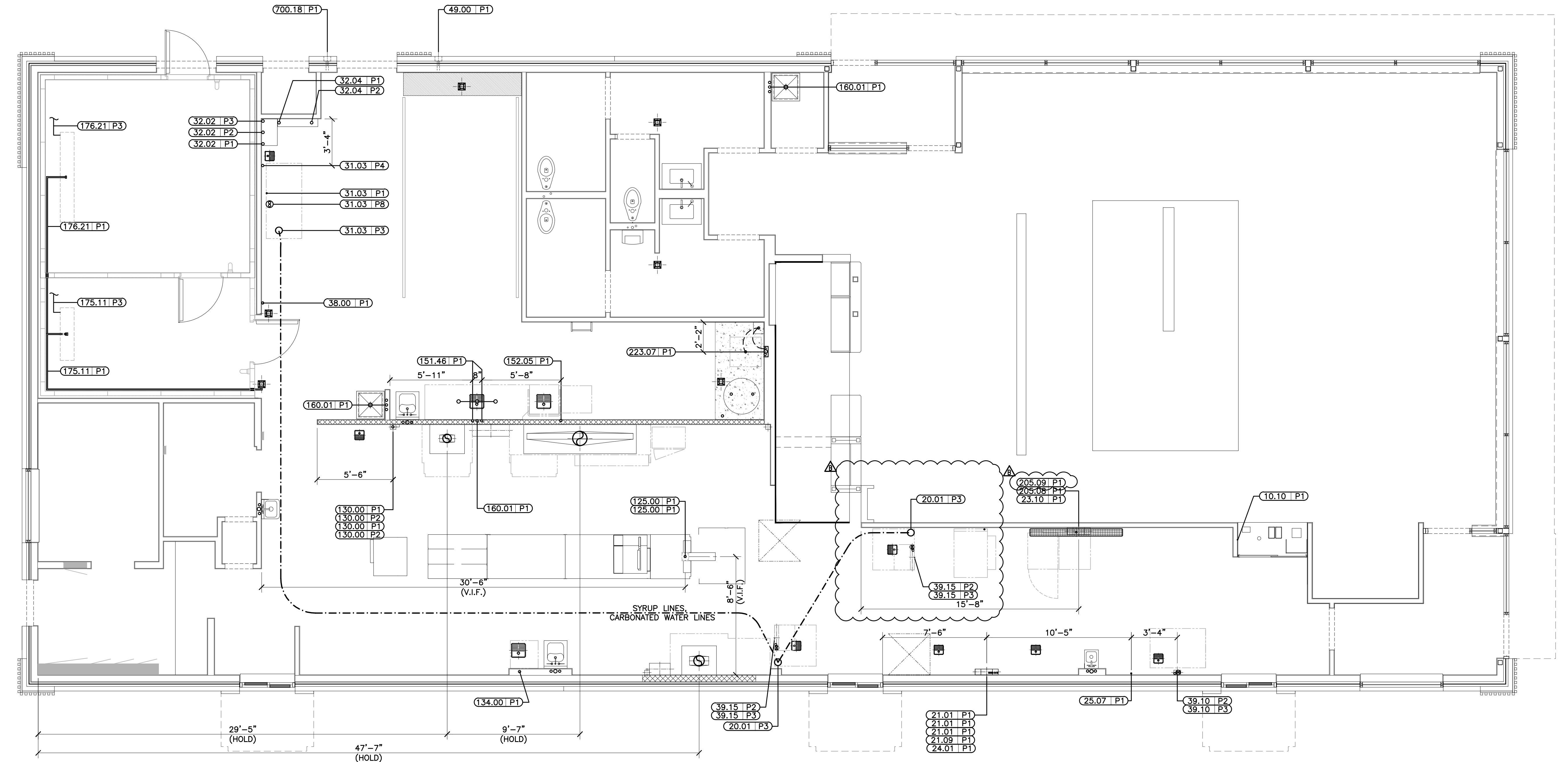
SHEET NO.	TITLE	DRAWN BY	PREPARED BY:	REVIEWED BY	DATE ISSUED	DESCRIPTION	BY
015-0071.00.B	2019 STANDARD BUILDING - BB20 4597F10-WOOD/WOOD	M.J.W 2019-11	© 2020 McDonald's USA, LLC <b>McDonald's USA, LLC</b>	W.L.W 12/03/20	12/03/20	SERVICE AREA OPTIMIZATION	
	WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI WOOD ROOF TRUSS FRAMING FIBER CEMENT PANEL/BATTEN/ALPOLIC PANEL/BRICK EXTER. FINISH				11/17/20	USERD SAO SET REVIEW	
					05/05/20	CIVIL & PLAN REVIEW COMMENTS	
					01/23/20	PERMIT SET	
					01/13/20	PROGRESS SET REVIEW	
					REV DATE	DESCRIPTION	BY



17648  
12/03/20

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OVERHEAD ROUGH-IN PLAN  
P1.6 1/4"=1'-0"

SEE SHEET P1.4 FOR  
UNDERGROUND ROUGH-IN PLAN

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

### PLUMBING SCHEDULE

TAG #	QTY	DESCRIPTION	GAS TYPE	GAS BTU	GAS SIZE	HW	CW	MISC PLBG	HGT AFF	DRAIN	REQUIREMENTS & REMARKS
010.10P1	1	CO2 DRIVEN KETCHUP DISPENSERS	-	-	-	-	-	3/8" CO2	SEE RMKS	-	DN CHASE FROM BULK CO2 IF NO CHASE RUN IN 2"COND TO JB -BSI TO CONN CO2 LINE PER LOCAL CODES
020.01P3	2	AUTOMATED BEVERAGE SYSTEM 2.0	-	-	-	-	-	6" PVC CONDUIT	SEE RMKS	-	ABOVE CEILING FROM SODA SYSTEM - TERMINATE AT CHASE
021.01P1	1	COFFEE BREWER (GLASS DECANTERS)	-	-	-	-	1/4"	TRTD	-	SEE RMKS	DN CHASE FROM SODA SYSTEM - IF NO CHASE RUN IN 2"COND TO JB -BSI TO CONN CW LINE PER LOCAL CODES. 1/4" R.O. WATER OPTIONAL
021.09P1	1	HOT WATER DISPENSER	-	-	-	-	1/4"	-	SEE RMKS	-	DN CHASE FROM SODA SYSTEM - IF NO CHASE RUN IN 2"COND TO JB -BSI TO CONN CW LINE PER LOCAL CODES. 1/4" R.O. WATER OPTIONAL
023.10P1	1	ESPRESSO BREWER	-	-	-	-	3/8"	R.O.	-	SEE RMKS	DN CHASE FROM SODA SYSTEM - IF NO CHASE RUN IN 2"COND TO JB -BSI TO CONN CW LINE PER LOCAL CODES
024.01P1	1	ORANGE JUICE DISPENSER	-	-	-	-	1/2"	FLTR	-	SEE RMKS	DN CHASE FROM SODA TOWER CW LINE W/ RECIRC/CHILLED INSULATED BUNDLE-BSI CONN CWLINE LOCAL CODES PERMITTING
025.07P1	1	INFUSION TEA BREWER - MIS	-	-	-	-	1/2"	TRTD	3/8" CO2	SEE RMKS	DN CHASE FROM SODA SYSTEM - IF NO CHASE RUN IN 2"COND TO JB -BSI TO CONN CW LINE PER LOCAL CODES
028.15P3	1	NOT USED	-	-	-	-	-	SODA BUNDLE	SEE RMKS	3/4" IND	DN CHASE FROM SODA SYSTEM - BSI TO MAKE FINAL CONNECTIONS PER LOCAL CODES
031.03P1	1	SODA SYSTEM PACKAGE B.I.B.(RECIRCULATING- 3 TOWERS)	-	-	-	-	-	3/8" OUTLET	SEE RMKS	-	FLEX LINE OVERHEAD TO VARIOUS EQUIP. BSI TO MAKE FINAL CONN PER LOCAL CODES
031.03P3	1	SODA SYSTEM PACKAGE B.I.B.(RECIRCULATING- 3 TOWERS)	-	-	-	-	-	SODA BUNDLE	SEE RMKS	-	OVERHEAD TO SODA TOWER CHASE(S) - BSI TO MAKE FINAL CONNECTIONS PER LOCAL CODES
031.03P4	1	SODA SYSTEM PACKAGE B.I.B.(RECIRCULATING- 3 TOWERS)	-	-	-	3/4"	-	1'-6"	3/4" IND	BSI TO MAKE CONNECTION FROM BACKFLOW PREVENTER (VERIFY HEIGHT IN FIELD)	-
031.03P8	1	SODA SYSTEM PACKAGE B.I.B.(RECIRCULATING- 3 TOWERS)	-	-	-	-	-	REFRIG LINES	SEE RMKS	-	FROM REMOTE CONDENSING UNIT
032.02P1	1	REVERSE OSMOSIS WATER FILTRATION SYSTEM	-	-	-	-	3/8"	-	SEE RMKS	-	FLEX LINE OVERHEAD FROM SODA SYSTEM - BSI TO MAKE FINAL CONN PER LOCAL CODES
032.02P2	1	REVERSE OSMOSIS WATER FILTRATION SYSTEM	-	-	-	-	-	3/8" OUTLET	SEE RMKS	-	FLEX LINE OVERHEAD TO RAPID STEAMER, ESPRESSO, AND COFFEE (OPT.) -BSI TO MAKE FINAL CONN PER LOCAL CODES
032.02P3	1	REVERSE OSMOSIS WATER FILTRATION SYSTEM	-	-	-	-	-	1/4"	-	-	-
032.04P1	1	WATER FILTRATION SYSTEM	-	-	-	-	-	3/4" INLET	6'-0"	-	-
032.04P2	1	WATER FILTRATION SYSTEM	-	-	-	-	-	3/4" OUTLET	-	-	3/4" GHT RINSE CONN. FLEX LINE OVHD. TO RAPID STEAMER, ESPRESSO, & COFFEE (OPT.) -BSI TO MAKE FINAL CONN PER LOCAL CODE
038.00P1	1	CLEAN IN PLACE PANEL	-	-	-	1/2"	FLTR	6'-0"	-	-	FOR CLEANING BULK COKE TANKS. INSTALL HEIGHT TO BOTTOM OF UNIT

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

### PLUMBING SCHEDULE

TITLE	2019 STANDARD BUILDING - BB20	STD ISSUE DATE	2019-11	DRAWN BY	M.J.W	REVIEWED BY	WLW	DESCRIPTION
4597F10-WOOD/WOOD								WATER BEARING WALLS W/FIBER CEMENT SIDING & CI
								WOOD ROOF TRUSS FRAMING
								FIBER CEMENT PANEL/BATTEN/ALUMINUM/BRICK EXT. FINISH
								SITE ADDRESS 605 SOUTH 7TH STREET, KANSAS CITY, KS
SHEET NO.	P1.6	SITE ID	015-0071.00.B	TITLE	OVERHEAD ROUGH-IN	REV. DATE	BY	

SEE SHEET P1.4 FOR UNDERGROUND ROUGH-IN PLAN

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PREPARED BY: McDonald's USA, LLC

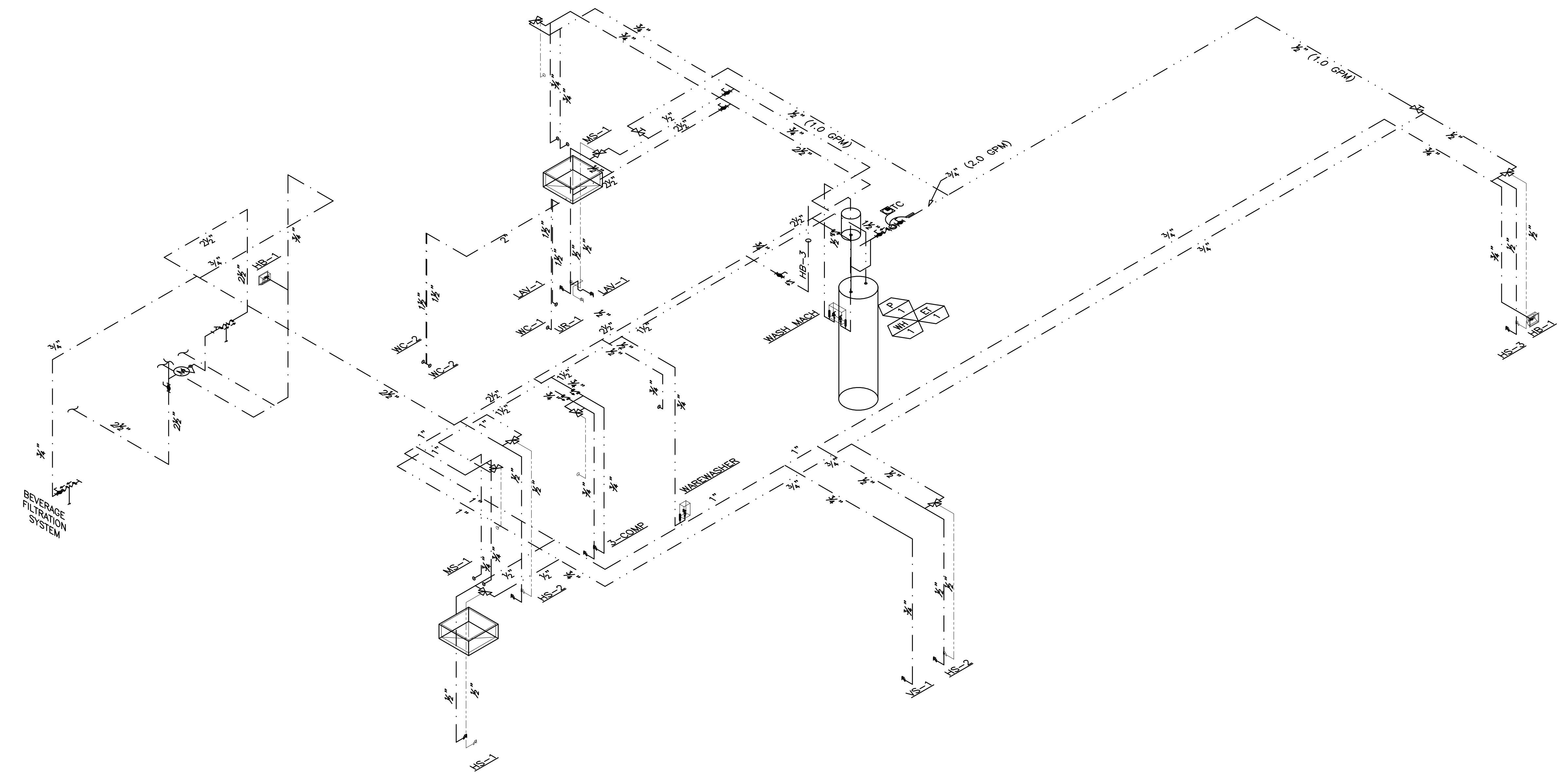
Michael Webster  
LICENSED  
17648  
KANSAS STATE BOARD OF EXAMINERS  
12/03/20

emmanuelson-podas consulting engineers

3801.0037

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Edina, MN 55439  
(612) 930-0050 | www.eppnc.com

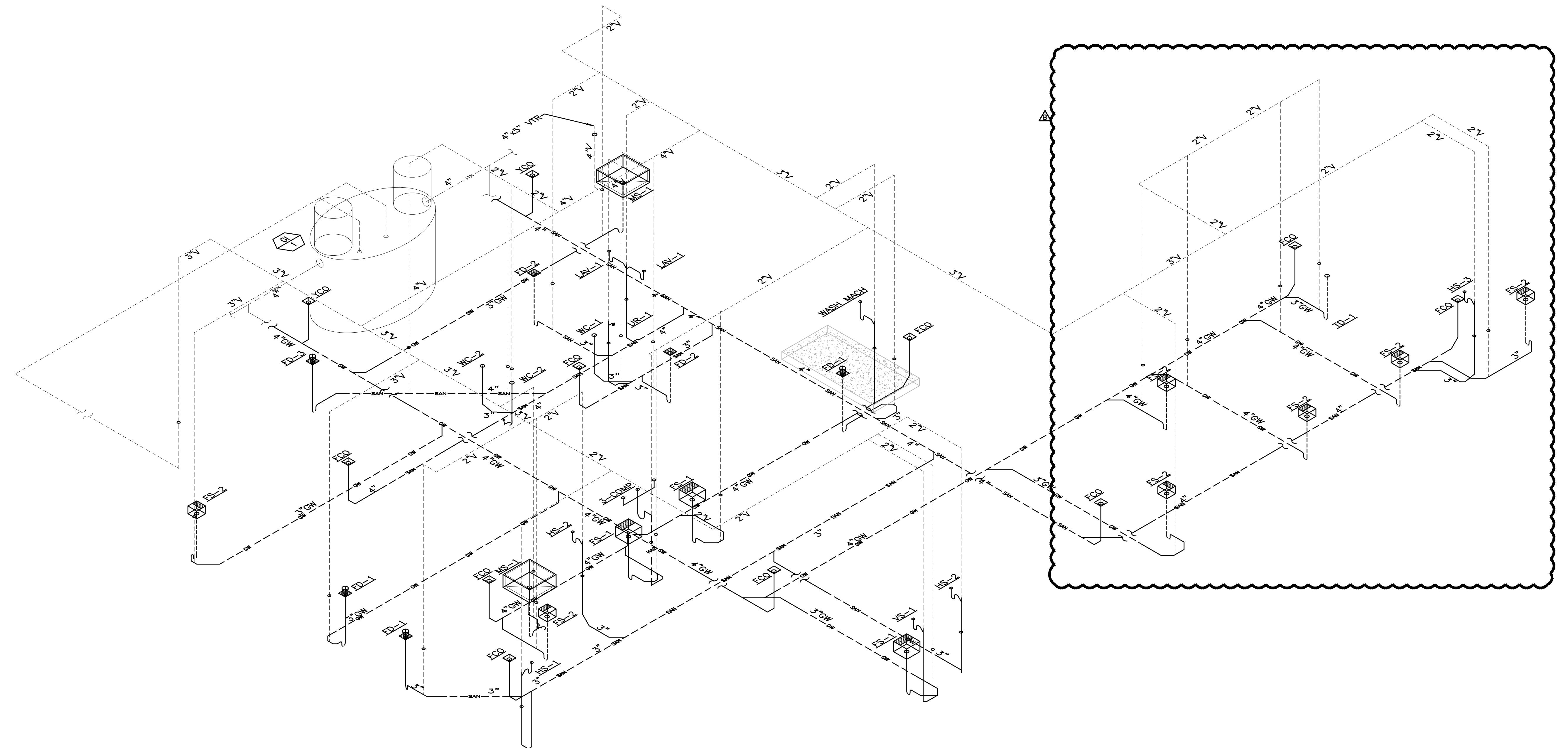
12/03/20



SHEET NO.	TITLE	DRAWN BY	PREPARED FOR:
015-0071.00.0	2019 STANDARD BUILDING - BB20 4597F10-WOOD/WOOD	M.J.W STD ISSUE DATE 2019-11	© 2020 McDonald's USA, LLC <b>McDonald's USA, LLC</b>
	DESCRIPTION WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI WOOD ROOF TRUSS FRAMING FIBER CEMENT PANEL/BATTEN/ALPOLIC PANEL/BRICK EXT. FINISH	W.L.W REVIEWED BY DATE ISSUED 01-23-20	These drawings and specifications are the confidential and proprietary property of McDonald's USA, LLC and shall not be copied or reproduced for use on this specific site in conjunction with its issuance, nor are they 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.
015-0071	SITE ADDRESS 605 SOUTH 7TH STREET, KANSAS CITY, KS	R.D#1975	

REV. DATE	DESCRIPTION	BY
01/13/20	PROGRESS SET REVIEW	
01/13/20	USD ORD	
01/23/20	PERMIT SET	
01/23/20	Emmanuel-Podas, Inc. Edina, MN 55439 (612) 930-0050   www.epinc.com	Emmanuel-Podas, Inc. Edina, MN 55439 (612) 930-0050   www.epinc.com

REV. DATE	DESCRIPTION	BY



SHEET NO.	TITLE	DRAWN BY	PREPARED BY:	REVIEWED BY:	DATE ISSUED	DESCRIPTION	REV. DATE
015-0071.00.B	2019 STANDARD BUILDING - BB20 4597F10-WOOD/WOOD	M.J.W 2019-11	© 2020 McDonald's USA, LLC <b>McDonald's USA, LLC</b>	W.L.W	12/03/20	Waste & Vent Isometric	
	DESCRIPTION WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI WOOD ROOF TRUSS FRAMING FIBER CEMENT PANEL/BATTEN/ALPOLIC PANEL/BRICK EXT. FINISH					These drawings and specifications are the confidential and proprietary property of McDonald's USA, LLC and shall not be copied or reproduced for use on this specific site in conjunction with the issued date and 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.	
	SITE ID 015-0071	SITE ADDRESS 605 SOUTH 7TH STREET, KANSAS CITY, KS					
			R#19175				

△	12/03/20	SERVICE AREA OPTIMIZATION
△	11/13/20	USRD SAO SET REVIEW
△	05/05/20	CIVIL & PLAN REVIEW COMMENTS
△	01/23/20	PERMIT SET
△	01/13/20	PROGRESS SET REVIEW
REV	DATE	DESCRIPTION

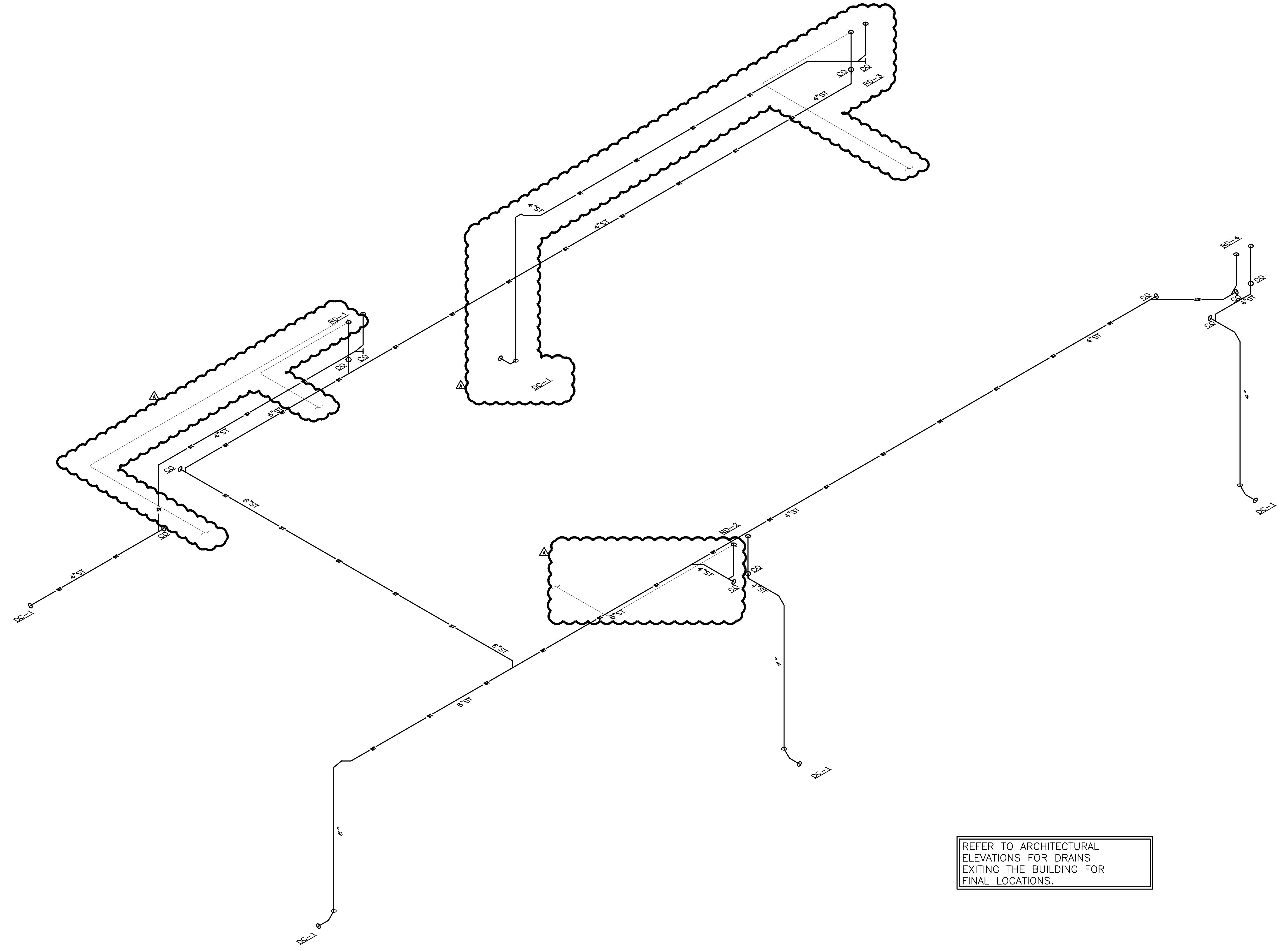


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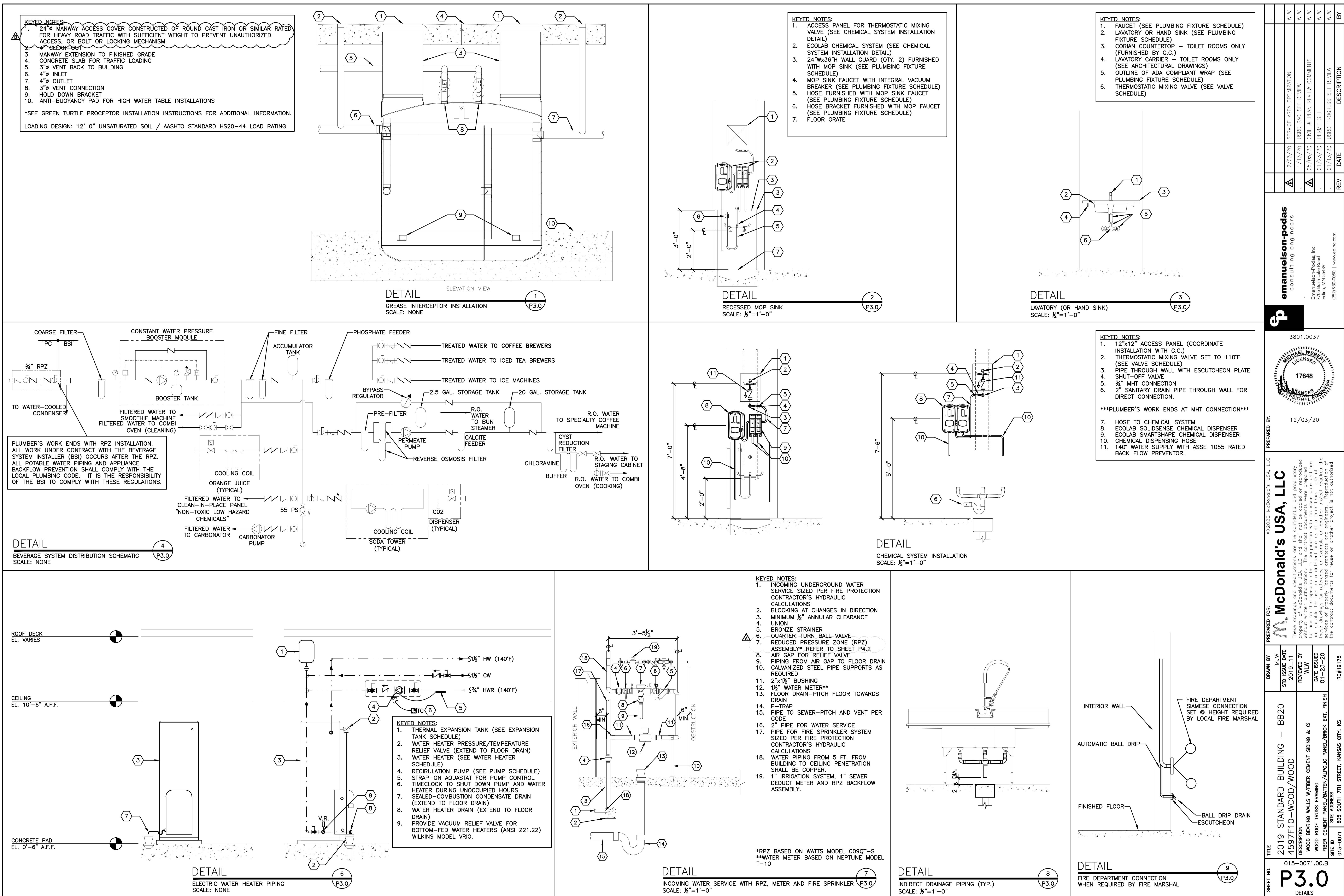
17648

12/03/20

Michael Weber  
LICENSED  
KANSAS  
CIVIL ENGINEER  
17648  
Emmanuelson-Podas, Inc.  
605 South 7th Street  
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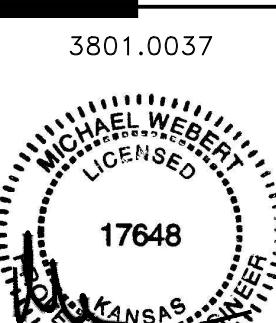
SHEET NO.	TITLE	DRAWN BY	PREPARED BY:	REVIEWED BY	DATE ISSUED	DESCRIPTION	REV. DATE	DESCRIPTION	BY
015-0071.00.A	2019 STANDARD BUILDING - BB20 4597F10-WOOD/WOOD	M.J.W STD ISSUE DATE 2019-11	© 2020 McDonald's USA, LLC <b>McDonald's USA, LLC</b>	W.L.W	05/05/20	These drawings and specifications are the confidential and proprietary property of McDonald's USA, LLC and shall not be copied or reproduced for use on this specific site in conjunction with the issuance date and 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.	01/13/20	CIVIL & PLAN REVIEW COMMENTS PERMIT SET PROGRESS SET REVIEW	emmanuelson-podas consulting engineers Emmanuelson-Podas, Inc. 105 N. Main Street Edina, MN 55439 (612) 990-0050   www.epinc.com
					01/23/20				
					01/23/20				
					01/13/20				
					05/05/20				



GENERAL PLUMBING NOTES		<b>Grease Interceptor Sizing (MPC)</b> DFU      INTERCEPTOR VOLUME (GAL) 8      500 21      750 35      1000 90      1250 172      1500 216      2000 <b>REQUIRED SIZE</b> <b>SIZE INSTALLED</b> 1250 1500	LEGEND		ABBREVIATIONS																		
GENERAL:			— — — — —	COLD WATER PIPING	ACM	AREA CONSTRUCTION MANAGER																	
1. ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.			— — — — —	TEMPERED WATER PIPING (110°F)	AVB	ATMOSPHERIC VACUUM BREAKER																	
2. ALL PLUMBING WORK SHALL BE PERFORMED BY A LICENSED PLUMBER.			— — — — —	HOT WATER PIPING (140°F)	BSI	BEVERAGE SYSTEM INSTALLER																	
3. ALL DIMENSIONS, CLEARANCES AND TOLERANCES SHALL BE VERIFIED PRIOR TO INSTALLATION. ALL ROUGH-IN LOCATIONS SHALL BE COORDINATED WITH THE MANUFACTURER'S SUBMITTAL INFORMATION.				RECIRCULATED HOT WATER PIPING	CO	CLEAN-OUT																	
4. ALL DIMENSIONAL INFORMATION IS AS FOLLOWS (UNLESS NOTED OTHERWISE): A. UNDERGROUND PIPE IS TO FOUNDATION B. OVERHEAD PIPE IS TO FINISHED WALL C. ELEVATIONS ARE TO FINISHED FLOOR				OVERHEAD LINES (BY P.C.)	DC	DOWNSPOUT COVER																	
5. ALL MATERIALS, FIXTURES AND EQUIPMENT USED SHALL BE IN ACCORDANCE WITH McDONALD'S SPECIFICATIONS. SPECIFICATIONS ARE CONTAINED WITHIN THESE DRAWINGS AND THE McDONALD'S PROJECT MANUAL. ANY CONTRACTOR IN NEED OF A COPY OF THE McDONALD'S PROJECT MANUAL SHALL CONTACT THE McDONALD'S AREA CONSTRUCTION MANAGER. ANY VARIANCE FROM THE McDONALD'S SPECIFICATIONS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER-OF-RECORD.				— SAN — — — UNDERGROUND SANITARY PIPING	DFU	DRAINAGE FIXTURE UNIT(S)																	
6. SEE COORDINATION SCHEDULE FOR ADDITIONAL SCOPE OF WORK.				— GW — — — UNDERGROUND GREASE WASTE PIPING	EC	ELECTRICAL CONTRACTOR																	
7. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH ITS LISTING AND/OR THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.				— — — — — VENT PIPING	FAC	FIRE ALARM CONTRACTOR																	
8. WHERE POOR SOIL CONDITIONS EXIST OR WHERE SUBSTANTIAL SETTLEMENT OF EITHER THE PIPING, THE BUILDING OR ADJACENT WALKS, PLANTERS, ETC., MAY OCCUR, THE CONTRACTOR SHALL PROVIDE ADEQUATE UNDERSLAB STAINLESS STEEL PIPE HANGERS OR APPROVED OTHER SUPPORT.			— ST — — — ABOVE GROUND STORM PIPING	FCO	FLOOR CLEAN-OUT																		
9. ALL PIPE SLEEVES SHALL BE PROPERLY SEALED AND INSULATED TO PREVENT HEAT LOSS AND SEEPAGE.		— — ST — — — UNDERGROUND STORM PIPING	FD	FLOOR DRAIN																			
10. ALL PIPE INSULATION SHALL BE PROTECTED FROM DAMAGE FROM PIPE HANGERS. PROTECTION SHALL BE LIGHT GAUGE GALVANIZED STEEL OR EQUAL.		⊕	HOSE BIBB	FPC	FIRE PROTECTION CONTRACTOR																		
11. ALL PENETRATIONS OF FIRE-RATED WALLS SHALL BE FIRESTOPPED WITH AN APPROVED AND LISTED FIRESTOPPING SYSTEM.		Z → OR Z ←	CHECK VALVE	FS	FLOOR SINK																		
SANITARY AND VENT SYSTEMS:		⊕	BALL VALVE	GC	GENERAL CONTRACTOR																		
1. THE BUILDING SANITARY PIPE SHALL BE LOCATED A MINIMUM OF 5 FT. FROM THE INCOMING WATER SERVICE, WHERE A 5 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.		⊗	THERMOSTATIC MIXING VALVE	GI	GREASE INTERCEPTOR																		
2. ALL SANITARY AND VENT PIPE SHALL BE PVC TYPE DWV, ABS OR PROTECTO 401 LINED CAST-IRON WHERE REQUIRED BY CODE.		□	FLOOR DRAIN	GPF	GALLONS PER FLUSH																		
3. ALL HORIZONTAL SANITARY PIPE SHALL BE INSTALLED WITH A MINIMUM PITCH OF $\frac{1}{4}$ " PER FOOT, OR IF THE (AHU) ALLOWS AS FOLLOWS:		□	CLEAN-OUT (FLOOR OR YARD)	GPM	GALLONS PER MINUTE																		
<table border="1"> <thead> <tr> <th>PIPE SIZE</th> <th>MIN. SLOPE</th> </tr> </thead> <tbody> <tr> <td>2<math>\frac{1}{2}</math>" OR LESS</td> <td><math>\frac{1}{8}</math>" PER FT.</td> </tr> <tr> <td>3" TO 6"</td> <td><math>\frac{1}{6}</math>" PER FT.</td> </tr> <tr> <td>8" OR LARGER</td> <td><math>\frac{1}{16}</math>" PER FT.</td> </tr> </tbody> </table>		PIPE SIZE	MIN. SLOPE	2 $\frac{1}{2}$ " OR LESS	$\frac{1}{8}$ " PER FT.	3" TO 6"	$\frac{1}{6}$ " PER FT.	8" OR LARGER	$\frac{1}{16}$ " PER FT.	□	FLOOR SINK	GW	GREASE WASTE										
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2 $\frac{1}{2}$ " OR LESS	$\frac{1}{8}$ " PER FT.																						
3" TO 6"	$\frac{1}{6}$ " PER FT.																						
8" OR LARGER	$\frac{1}{16}$ " PER FT.																						
4. CLEANOUTS SHALL BE INSTALLED IN ALL HORIZONTAL DRAINAGE PIPE AND SHALL BE LOCATED NOT MORE THAN 100 FT. APART.		○	PRESSURE GUAGE	HS	HAND SINK																		
5. CLEANOUTS SHALL BE INSTALLED AT ALL CHANGES OF DIRECTION GREATER THAN 45 DEGREES. WHERE MORE THAN ONE CHANGE OF DIRECTION OCCURS IN A SINGLE PIPE RUN, ONLY ONE (1) CLEANOUT SHALL BE REQUIRED FOR EVERY 40 FEET OF DEVELOPED LENGTH.		□	LOW PRESSURE SWITCH	I.P.S.	IRON PIPE SIZE (ALSO NPS)																		
6. CLEANOUTS SHALL BE INSTALLED ON PIPES PRIOR TO ANY SLAB PENETRATION.		□	HIGH PRESSURE SWITCH	KEI	KITCHEN EQUIPMENT INSTALLER																		
7. WHERE PIPING IS LOCATED WITHIN WALL CAVITIES, ACCESS TO THE CLEANOUTS SHALL BE PROVIDED.		⊗	SOLENOID VALVE	KES	KITCHEN EQUIPMENT SUPPLIER																		
8. CLEANOUTS ON 6-IN. AND SMALLER PIPES SHALL BE PROVIDED WITH A CLEARANCE OF NOT LESS THAN 18 IN. CLEANOUTS ON 8-IN. AND LARGER PIPE SHALL BE PROVIDED WITH A CLEARANCE OF NOT LESS THAN 36 IN.		⊗	THREE-WAY VALVE	LAV	LAVATORY																		
9. ALL SUSPENDED SANITARY AND VENT PIPE SHALL BE SUPPORTED AS FOLLOWS:		○	PRESSURE REGULATOR	MC	MECHANICAL CONTRACTOR																		
<table border="1"> <thead> <tr> <th>MATERIAL</th> <th>MAX. HORIZ. SPACING</th> <th>MAX. VERT. SPACING</th> </tr> </thead> <tbody> <tr> <td>COPPER PIPE</td> <td>12 FT.</td> <td>10 FT.</td> </tr> <tr> <td>COPPER TUBING <math>\leq \frac{1}{2}</math>"</td> <td>6 FT.</td> <td>10 FT.</td> </tr> <tr> <td>COPPER TUBING <math>&gt; \frac{1}{2}</math>"</td> <td>10 FT.</td> <td>10 FT.</td> </tr> <tr> <td>CPVC <math>\leq 1"</math></td> <td>3 FT.</td> <td>10 FT.</td> </tr> <tr> <td>CPVC <math>\geq \frac{1}{2}</math>"</td> <td>4 FT.</td> <td>10 FT.</td> </tr> </tbody> </table>		MATERIAL	MAX. HORIZ. SPACING	MAX. VERT. SPACING	COPPER PIPE	12 FT.	10 FT.	COPPER TUBING $\leq \frac{1}{2}$ "	6 FT.	10 FT.	COPPER TUBING $> \frac{1}{2}$ "	10 FT.	10 FT.	CPVC $\leq 1"$	3 FT.	10 FT.	CPVC $\geq \frac{1}{2}$ "	4 FT.	10 FT.	○	DUAL CHECK VALVE OR RPZ	MHT	MALE HOSE THREADS
MATERIAL	MAX. HORIZ. SPACING	MAX. VERT. SPACING																					
COPPER PIPE	12 FT.	10 FT.																					
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CPVC $\leq 1"$	3 FT.	10 FT.																					
CPVC $\geq \frac{1}{2}$ "	4 FT.	10 FT.																					
10. ALL PLUMBING FIXTURES SHALL BE VENTED AND THE MAXIMUM DISTANCE FROM THE FIXTURE TRAP TO THE VENT SHALL BE AS FOLLOWS:		○	DUAL CHECK VALVE WITH ATMOSPHERIC VENT	MS	MOP SINK																		
<table border="1"> <thead> <tr> <th>TRAP SIZE</th> <th>SLOPE</th> <th>DISTANCE</th> </tr> </thead> <tbody> <tr> <td>1<math>\frac{1}{2}</math>"</td> <td><math>\frac{1}{4}</math>" PER FT.</td> <td>2'-6"</td> </tr> <tr> <td>2<math>\frac{1}{2}</math>"</td> <td><math>\frac{1}{4}</math>" PER FT.</td> <td>3'-6"</td> </tr> <tr> <td>3"</td> <td><math>\frac{1}{4}</math>" PER FT.</td> <td>5'-0"</td> </tr> <tr> <td>4" &amp; LARGER</td> <td><math>\frac{1}{4}</math>" PER FT.</td> <td>6'-0"</td> </tr> <tr> <td></td> <td></td> <td>10'-0"</td> </tr> </tbody> </table>		TRAP SIZE	SLOPE	DISTANCE	1 $\frac{1}{2}$ "	$\frac{1}{4}$ " PER FT.	2'-6"	2 $\frac{1}{2}$ "	$\frac{1}{4}$ " PER FT.	3'-6"	3"	$\frac{1}{4}$ " PER FT.	5'-0"	4" & LARGER	$\frac{1}{4}$ " PER FT.	6'-0"			10'-0"	○	STRAINER	NPS	NATIONAL PIPE THREAD STANDARD
TRAP SIZE	SLOPE	DISTANCE																					
1 $\frac{1}{2}$ "	$\frac{1}{4}$ " PER FT.	2'-6"																					
2 $\frac{1}{2}$ "	$\frac{1}{4}$ " PER FT.	3'-6"																					
3"	$\frac{1}{4}$ " PER FT.	5'-0"																					
4" & LARGER	$\frac{1}{4}$ " PER FT.	6'-0"																					
		10'-0"																					
11. ALL PLUMBING VENTS THROUGH THE ROOF SHALL TERMINATE A MINIMUM OF 12 INCHES ABOVE THE ROOF, AND SHALL BE LOCATED A MINIMUM OF 8 FT. FROM ANY PARAPET WALL. WHERE A VENT TERMINATES WITHIN 8 FT. OF A PARAPET WALL, THE VENT SHALL TERMINATE A MINIMUM OF 6 INCHES ABOVE THE PARAPET.		○	RELIEF VENT	NPT	NATIONAL PIPE THREAD TAPERED																		
12. ALL PLUMBING VENTS SHALL TERMINATE A MINIMUM OF 10 FT. HORIZONTALLY FROM ANY OUTDOOR AIR INTAKE. WHERE A PLUMBING VENT IS LOCATED WITHIN 10 FT. OF AN INTAKE, THE VENT SHALL TERMINATE A MINIMUM OF 3 FT. ABOVE THE INTAKE.		○	FULL-PORT BALL VALVE	O/O	OWNER/OPERATOR																		
13. ALL SIDE WALL VENT TERMINATIONS SHALL BE PROTECTED TO PREVENT BIRDS OR RODENTS FROM ENTERING OR BLOCKING THE VENT OPENING.		○	PUMP	OH	OVERHEAD																		
14. ALL FLOOR DRAINS THAT DO NOT SERVE EQUIPMENT SHALL BE PROTECTED AGAINST DRYING OUT EITHER THROUGH THE INSTALLATION OF A TRAP PRIMER, DEEP SEAL TRAP OR PROSTET TRAP GUARD. TRAP GUARD NOT ALLOWED IN KITCHEN AREA		○	BACK FLOW PREVENTER	P	PUMP																		
15. ALL APPLIANCES SHALL DRAIN TO AN APPROVED SANITARY WASTE RECEPTOR (FLOOR SINK OR FLOOR DRAIN WITH FUNNEL). INDIRECT DRAINAGE FROM AN APPLIANCE SHALL MAINTAIN AN AIR GAP BETWEEN THE PIPE OUTLET AND THE TOP OF THE RECEPTOR. THE MINIMUM DISTANCE BETWEEN THE PIPE OUTLET AND THE TOP OF THE RECEPTOR SHALL BE TWICE THE DIAMETER OF THE APPLIANCE DRAIN PIPE.		○	PLUMBING CONTRACTOR	PC	PLUMBING CONTRACTOR																		
16. THE PVC PLASTIC PIPING TO BE INSTALLED MUST COMPLY WITH ONE OF THE FOLLOWING ASTM STANDARDS: D2665, OR F891. THE INSTALLATION MUST COMPLY WITH ASTM STANDARD D2321		○	REFRIGERATION CONTRACTOR	RC	REFRIGERATION CONTRACTOR																		
17. ALL PLASTIC PIPE USED FOR DRAIN, WASTE, AND VENT SYSTEM (ABS, PVC) SHALL COMPLY WITH ASTM D2661 OR F268 (ABS) AND D2665, D2649 OR F891 (PVC). ABOVE GRADE HORIZONTAL RUNS OF PLASTIC WASTE AND VENT PIPE CAN NOT EXCEED 35 FEET IN TOTAL LENGTH, AND ABOVE GRADE VERTICAL STACKS CONSTRUCTED OF PLASTIC PIPE MAY EXCEED 35 FEET IN TOTAL HEIGHT ONLY IF AN APPROVED EXPANSION JOINT IS USED. SOLVENT WELD JOINTS IN PVC AND CPVC PIPE MUST INCLUDE USE OF PRIMER WHICH IS OF CONTRASTING COLOR TO THE PIPE AND CEMENT.		○	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER	RPZ	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER																		
18. CAST IRON PIPE USED FOR ABOVE GROUND WASTE SYSTEMS MUST MEET ANSI STANDARD A21.2, A21.6, A21.8, A40.5, OR ASTM STANDARD A-74.		○	SANITARY SEWER	SAN	SANITARY SEWER																		
		○	STORM SEWER	ST	STORM SEWER																		
		○	ANTI-SIPHON, SPILL RESISTANT VACUUM BREAKER	SVB	ANTI-SIPHON, SPILL RESISTANT VACUUM BREAKER																		
		○	TEST AND BALANCE CONTRACTOR	TAB	TEST AND BALANCE CONTRACTOR																		
		○	UNDERGROUND	UG	UNDERGROUND																		
		○	URINAL	UR	URINAL																		
		○	VENT	V	VENT																		
		○	WATER CLOSET	WC	WATER CLOSET																		
		○	WALL CLEAN-OUT	WCO	WALL CLEAN-OUT																		
		○	WATER SUPPLY FIXTURE UNIT(S)	WSFU	WATER SUPPLY FIXTURE UNIT(S)																		
		○	YARD CLEAN-OUT	YCO	YARD CLEAN-OUT																		

**emmanuelson-podas**  
consulting engineers

Emmanuelson-Podas, Inc.  
Edison, NJ 07003 | (973) 999-0050 | www.eppinc.com



01/23/20

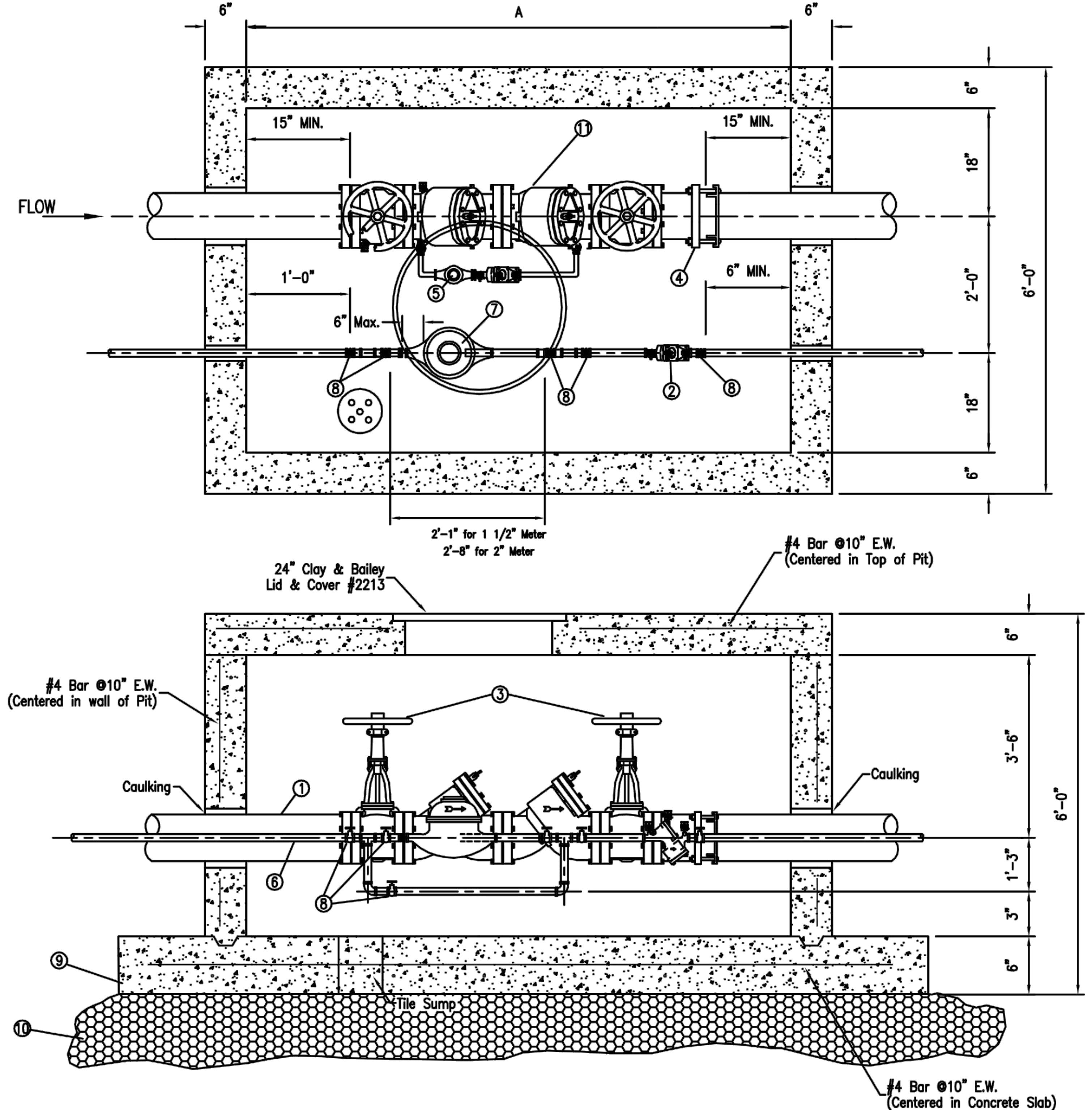
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PREPARED FOR:  
**McDonald's USA, LLC**  
DRAWN BY: MJW  
STD ISSUE DATE: 2019-11  
REVIEWED BY: WLW  
DATE ISSUED: 01-23-20  
TITLE: 2019 STANDARD BUILDING - BB20  
DESCRIPTION: 4597F10-WOOD/WOOD  
WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI  
WOOD ROOF TRUSS FRAMING  
FIBER CEMENT PANEL/BATTEN/ALPOLIC PANEL/BRICK EXT. FINISH  
SITE ADDRESS: 605 SOUTH 11H STREET, KANSAS CITY, KS  
SITE ID: 015-0071  
RD#19175  
SHEET NO. P4.0  
GENERAL NOTES

COORDINATION SCHEDULE						PUMP SCHEDULE						WATER HEATER SCHEDULE																
GENERAL REQUIREMENTS	FURNISH	INSTALL	FINAL CONNECTION	NOTES	NOTES:						TAG	MANUFACTURER	MODEL	HP	V	Ø	Hz	ACCESSORIES	TAG	MANUFACTURER	MODEL	SIZE	HEATING	REC'D.	ELECTRICAL			
					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.																							
MECHANICAL PERMIT	MC			1-3																								
HOT WORK (WELDING) PERMIT (IF APPLICABLE)	KES			1-3																								
REFRIGERATION PERMIT (IF APPLICABLE)	MC			1-3																								
PLUMBING PERMIT	PC			1-3																								
ELECTRICAL PERMIT	EC			1-3																								
FIRE SPRINKLER PERMIT (IF APPLICABLE)	FPC			1-3																								
FIRE ALARM PERMIT (IF APPLICABLE)	FAC			1-3																								
CONTRACTOR COORDINATION REQUIREMENTS						NOTES:						1. 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.						NOTES:						1. SEE DETAIL 6 ON DRAWING P3.0				
HEATING & AIR-CONDITIONING																												
ROOFTOP UNITS, INTAKE AND RELIEF	MC	MC			1-5, 17, 22																							
ROOF CURBS	MC	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	MC	MC			1-3, 17, 22																							
ROOF CURBS	MC	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																												
THERMOSTATS & SUBBASES	MC	MC	EC		1-3, 22																							
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	EC		1-3, 22																							
WEATHERPROOFING (IF APPLICABLE)	MC	MC	EC		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	EC		1-3, 22																							
AIR DEVICES AND ACCESSORIES	MC	MC	MC		1-3, 7, 22, 28																							
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	</td																									

DO NOT SCALE DRAWING  
WORK TO DIMENSIONS



LEGEND

- ① Pipe Spool (Flanged Ductile Iron Pipe).
- ② Approved double check valve assembly with 4 test cocks (Fitted with brass plugs).
- ③ O.S.&Y Resilient seated gate valve.
- ④ Rockwell 913 Steel flanged coupling adapter or approved equal.
- ⑤ 5/8" box water meter, Badger Model #25 with read in cubic feet to meet B.P.U. specifications.
- ⑥ Brass pipe or rigid copper tubing (sweat).
- ⑦ Meter installed by B.P.U.
- ⑧ Wheel gate valve or resilient seated ball valve.
- ⑨ 10'-6"x 7'-0"x 6" Reinforced concrete slab.
- ⑩ 12" of 1/2" or 3/4" crushed rock.
- ⑪ Approved double check detector check valve assembly with 4 test cocks(Fitted with brass plugs)

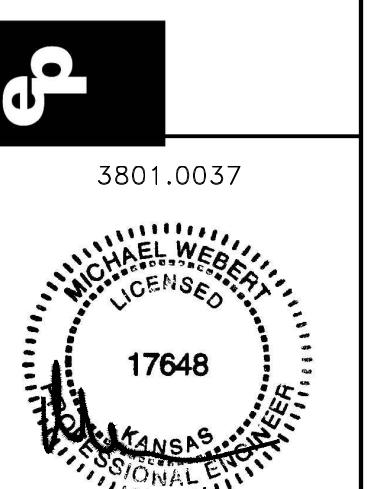
NOTES

- 1 All backflow prevention assemblies shall be installed horizontally or as approved by BPU.
- 2 Dimension to be determined by unit installed.
- 3 AB-3, CA-5 or gravel will not be allowed as back fill material around water service.

**BOARD OF PUBLIC UTILITIES**  
ENGINEERING & TECHNICAL SERVICES  
KANSAS CITY, KANSAS  
1 1/2"-2" Meter w/ 3", 4", & 6"  
Double Check Detector Check  
Valve Assembly

DRAWN	A.A.G.	DATE	4/1/92	ENGR.	APPV.	R.W.
APPV.		DATE		SHEET	9 OF 37	
REV.		DATE		DWG. NO.		
TRACED		DATE				
SCALE	NONE	W.O.				BF-009a

TITLE	DETAILS	BY
2019 STANDARD BUILDING - BB20		
4597F10-WOOD/WOOD		
STD ISSUE DATE		
2019-11		
REVIEWED BY		
WLW		
DESCRIPTION		
WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI		
WOOD ROOF TRUSS FRAMING		
FIBER CEMENT PANEL/BATTEN/ALPOLIC PANEL/BRICK EXTER. FINISH		
SITE ID		
015-0071-00-A		
SITE ADDRESS		
605 SOUTH 7TH STREET, KANSAS CITY, KS		
015-0071		
REV. DATE		
01/13/20		
PROGRESS SET REVIEW		
01/23/20		
PERMIT SET		
01/23/20		
CIVIL & PLANT REVIEW COMMENTS		
05/05/20		
EMANUELSON-PODAS CONSULTING ENGINEERS		
Emmanuelson-Podas, Inc.		
Edwards, IN 46528		
(920) 930-0050   www.epinc.com		
REV. DATE		
05/05/20		

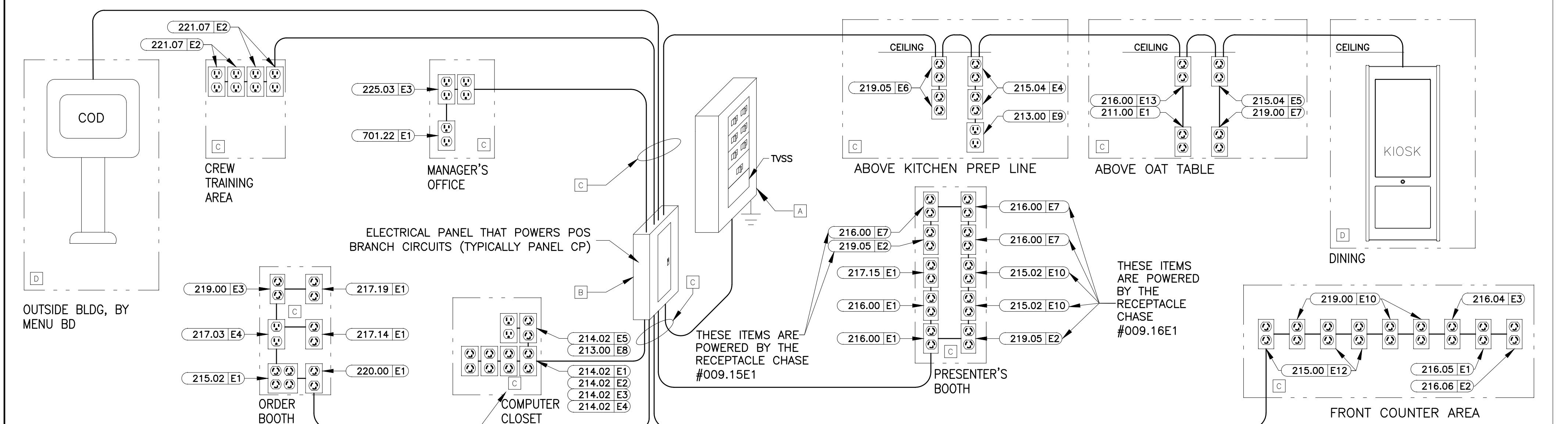


05/05/2020

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DRAWN BY:  
M.J.W.  
STD ISSUE DATE:  
2019-11  
REVIEWED BY:  
WLW  
DATE ISSUED:  
01-23-20  
DESCRIPTION:  
WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI  
WOOD ROOF TRUSS FRAMING  
FIBER CEMENT PANEL/BATTEN/ALPOLIC PANEL/BRICK EXTER. FINISH  
SHEET NO.:  
015-0071-00-A  
DETAILS:  
P4.2

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



### POS ELECTRICAL RISER DIAGRAM

THIS RISER DIAGRAM SHOWS THE ELECTRICAL ROUGH-INS REQUIRED FOR A TYPICAL POINT OF SALE (POS) SYSTEM IN A FREE STANDING 2 BOOTH RESTAURANT. VERIFY ALL POS ROUGH-INS AND MOUNTING HEIGHTS WITH THE ELECTRICAL ROUGH-IN PLAN, NOTES AND INFORMATION DRAWINGS.

### LOW VOLTAGE CABLE MANAGEMENT SPECIFICATION

#### GENERAL/MATERIALS

- THE CC 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  $\frac{1}{32}$ "
  - 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.
- 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

- 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,
  - PRESENTER'S BOOTH,
  - CASHIERS BOOTH,
  - THIRD DRIVE-THRU WINDOW(IF PRESENT).
  - CREW ROOM,
  - VALENCE WALL,
  - REMOTE ORDERING STATIONS,
  - NETPOF TELEPHONE PANEL LOCATION.
- 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.
- 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.
- 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: \_\_\_\_\_

THE EC SHALL COMPLETE THE BELOW CHECKLIST TO VERIFY COMPLIANCE WITH MCDONALD'S SPECIFICATIONS.

IF YOU HAVE ANY QUESTIONS REGARDING THE PLANS, PLEASE CALL THE DESIGNER.  
DESIGNER: Wendy Wenborg  
PHONE: 952-540-4047  
EMAIL: wwenborg@epinc.com

START HERE

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

YES NO N/A

- IS AN EQUIPMENT GROUND BAR INSTALLED SUCH THAT IT IS ELECTRICALLY CONNECTED TO THE PANEL?
- DO ALL NEUTRAL CONDUCTORS TERMINATE ONLY TO THE NEUTRAL BAR?
- DO ALL EQUIPMENT GROUND CONDUCTORS TERMINATE ONLY TO THE EQUIPMENT GROUND BAR?
- DOES THE ISOLATED GROUND CONDUCTOR (GREEN W/YELLOW STRIPE) TERMINATE ON THE EQUIPMENT GROUND BAR?
- IS THERE AN APPROPRIATE ELECTRICAL CONNECTION (BOND) BETWEEN THE NEUTRAL BAR AND THE EQUIPMENT GROUND BAR?
- DOES THE GROUNDING SYSTEM COMPLY WITH MCDONALD'S "BUILDING ELECTRICAL GROUNDING DETAIL"?
- IS A SURGE PROTECTOR INSTALLED THAT COMPLIES WITH MCDONALD'S "TVSS INSTALLATION GUIDE" OR DETAIL?
- ARE ALL ELECTRICAL CONNECTIONS (WIRING & BUSING) PROPERLY TIGHTENED?
- ARE ALL CIRCUIT BREAKERS CLEARLY LABELED?

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

YES NO N/A

- IS AN EQUIPMENT GROUND BAR INSTALLED SUCH THAT IT IS ELECTRICALLY CONNECTED TO THE PANEL?
- IS AN ISOLATED GROUND BAR INSTALLED SUCH THAT IT IS ELECTRICALLY INSULATED FROM THE PANEL?
- DO ALL NEUTRAL CONDUCTORS TERMINATE ONLY TO THE NEUTRAL BAR?
- DO ALL EQUIPMENT GROUND CONDUCTORS TERMINATE ONLY TO THE EQUIPMENT GROUND BAR?
- DO ALL ISOLATED GROUND CONDUCTORS (GREEN W/YELLOW STRIPE) TERMINATE ONLY TO THE ISOLATED GROUND BAR?
- ARE ALL ELECTRICAL CONNECTIONS (WIRING & BUSING) PROPERLY TIGHTENED?
- ARE ALL POS & COD CIRCUIT BREAKERS ON THE SAME PANEL?
- ARE ALL CIRCUIT BREAKERS CLEARLY LABELED?
- DO ALL POS & COD CIRCUIT BREAKERS HAVE A LOCKING MECHANISM ON THEIR HANDLES TO PREVENT THEM FROM BEING SHUT OFF BY MISTAKE?
- DOES THE FEEDER CIRCUIT FOR THIS SUBPANEL CONTAIN PHASE, NEUTRAL ONE EQUIPMENT GROUND AND ONE ISOLATED GROUND CONDUCTORS THAT ARE PROPERLY TERMINATED (SEE POS & COD ISO GND/DED CKT DETAIL)?

#### VISUALLY INSPECT ALL REMAINING ELECTRICAL SUBPANELS

YES NO N/A

- IS AN EQUIPMENT GROUND BAR INSTALLED SUCH THAT IT IS ELECTRICALLY CONNECTED TO THE PANEL?
- DO ALL NEUTRAL CONDUCTORS TERMINATE ONLY TO THE NEUTRAL BAR?
- DO ALL EQUIPMENT GROUND CONDUCTORS TERMINATE ONLY TO THE EQUIPMENT GROUND BAR?
- ARE ALL ELECTRICAL CONNECTIONS (WIRING & BUSING) PROPERLY TIGHTENED?
- ARE ALL CIRCUIT BREAKERS CLEARLY LABELED?
- DOES THE FEEDER CIRCUIT FOR THIS SUBPANEL CONTAIN PHASE, NEUTRAL AND ONE EQUIPMENT GROUND CONDUCTORS THAT ARE PROPERLY TERMINATED? (SEE BUILDING ELECTRICAL GROUNDING DETAIL)

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

#### C VISUALLY INSPECT THE POS BRANCH CIRCUITS

YES NO N/A

- ARE THE POS BRANCH CIRCUITS ROUTED IN THEIR OWN CONDUIT BY THEMSELVES?
- IF THE POS BRANCH CIRCUIT IS ROUTED ABOVE GRADE, IS IT IN A METALLIC CONDUIT?
- 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).
- DO ALL POS BRANCH CIRCUITS TERMINATE AT EITHER AN IG4700, IG4710, IG5261, IG5262 RECEPTACLES OR ANY COMBINATION OF THESE?
- ARE ALL ELECTRICAL TERMINATIONS TO IG RECEPTACLES MADE WITH SOLID #12 AWG WIRE CAPTURED AROUND THE SCREW BARREL AND SUITABLY TIGHTENED?
- ARE ALL BRANCH CIRCUIT CONNECTIONS PROPERLY TIGHTENED?
- ARE THE CORRECT AMOUNT AND TYPE OF IG RECEPTACLES PROVIDED AS SHOWN IN THE ELECTRICAL ROUGH-IN PLAN, NOTES AND INFORMATION?
- DO ALL POS RECEPTACLES HAVE ORANGE "COMPUTER ONLY" COVERPLATES?
- DO ALL POS BRANCH CIRCUITS COMPLY WITH THE "POS & COD ISOLATED GND/DEDICATED CIRCUIT" DETAIL?

#### D VISUALLY INSPECT THE POS BRANCH CIRCUIT FOR THE COD

YES NO N/A

- ARE THE COD BRANCH CIRCUITS ROUTED IN THEIR OWN CONDUIT BY THEMSELVES?
- DOES EACH COD 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).
- IS THE COD POWERED FROM THE SAME PANEL AS THE POS?
- DOES THE BREAKER FOR THE COD HAVE A LOCKING MECHANISM ON ITS HANDLE THAT WILL PREVENT IT FROM BEING SHUT OFF?
- DO THE COD BRANCH CIRCUIT(S) COMPLY WITH THE "POS & COD ISOLATED GND/DEDICATED CIRCUIT" DETAIL?
- IF THE COD HAS AN OPTICAL ISOLATOR, IS A STRAIGHT BLADE ISOLATED GROUND RECEPTACLE ON AN ISOLATE GROUND/DEDICATED CIRCUIT PROVIDED FOR IT?

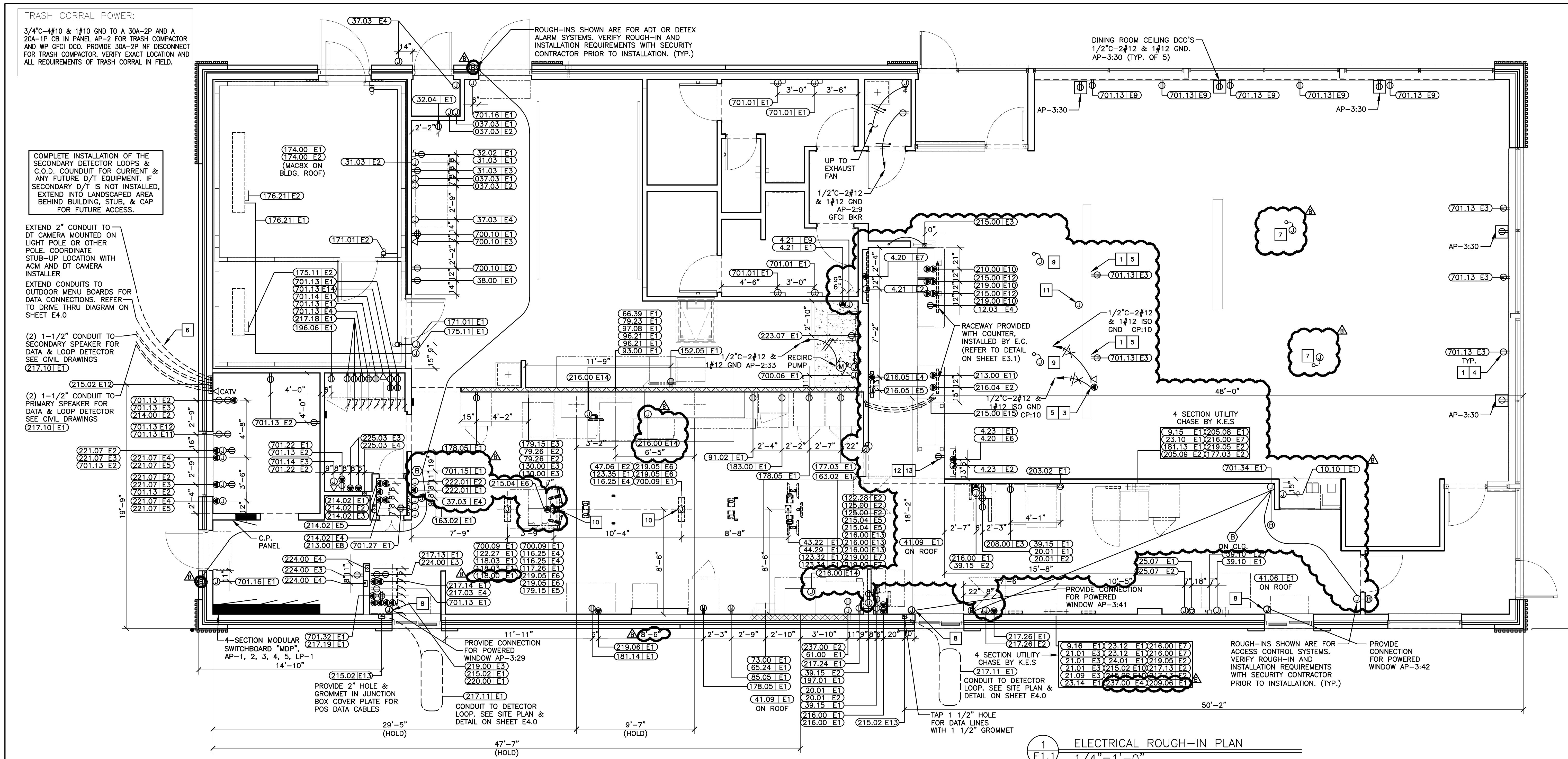
TITLE	DESCRIPTION	REV. DATE	BY
2019 STANDARD BUILDING - BB20 4597F10-WOOD/WOOD	WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI WOOD ROOF TRUSS FRAMING FIBER CEMENT PANEL/BATTEN/ALPOLIC PANEL/BRICK EXTER. FINISH	01/23/20	W.W. W.W. W.W. W.W.

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3801.0037  
MICHAEL WEBER  
LICENSED  
17648  
MISSISSIPPI ENGINEERS  
01/23/20  
PREPARED BY:

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DRAWN BY: MRV  
STD ISSUE DATE: 2019-11  
REVIEWED BY: WLW  
DATE ISSUED: 01-23-20  
SHEET NO. 015-0071.00.0  
TITLE E1.0  
DESCRIPTION POS RISER DIAGRAM  
SITE ID 605 SOUTH 7TH STREET, KANSAS CITY, KS  
DATE 015-0071



#### SYMBOLS AND ABBREVIATIONS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
\$	SINGLE POLE SWITCH, 3W=THREE WAY SWITCH, K=KEYED SWITCHED, VS=VACANCY SENSOR	(B)	BUZZER
\$T	MANUAL SWITCH (T= THERMAL OVERLOADS)	(B)	BUTTON FOR BUZZER
□	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 (IG) = IG4710, (IG) = IG5261, (IG) = IG4700A, (IG) = IG5262	C	CONDUIT
▲	INTERCOM STATION W/ 3/4" C- 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/ 1/2" C- UP TO CEILING SPACE	IG	ISOLATED GROUND
○	MOTOR CONNECTION	JB	JUNCTION BOX
—	CONDUIT RUN CONCEALED IN CEILING OR WALLS	KES	KITCHEN EQUIPMENT SUPPLIER
—	CONDUIT RUN IN FLOOR SLAB	MLO	MAIN LUGS ONLY
—X	HOT (SHORT), NEUTRAL (LONG), EQUIP GRD (LONG WITH DOT), & X' DENOTES ISOLATED GRD	WP	WEATHERPROOF
○○	J-BOX WITH FINAL EQUIPMENT CONNECTION	CO	CARBON MONOXIDE SENSOR
○○	CEILING MOUNTED OCCUPANCY SENSOR		

#### ADT ROUGH-IN NOTES

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

#### GENERAL NOTES

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

#### KEY NOTES

- 1 TAMPER RESISTANT GFCI DUPLEX RECEPTACLE IN PUBLIC AREAS. EC SHALL PROVIDE HUBBELL GFTRST\* (\*": AL=ALMOND, BK=BLACK, BR=BROWN, GR=GRAY, IV=IVORY, LA=LIGHT ALMOND, RD=RED, WH=WHITE). SPECIFIED RECEPTACLE BECOMES DE-ENERGIZED UPON FAILURE OF GFCI DEVICE. NO SUBSTITUTIONS.(TYPICAL)
- 2 SEE POS ELECTRICAL RISER DIAGRAM ON SHEET E1.0. (TYPICAL)
- 3 SEE NOTE FLAT PANEL TELEVISION NOTE ON SHEET E3.1.

#### KEY NOTES

- 4 PER THE AMERICAN WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG), A MINIMUM OF ONE (1) ADA COMPLIANT ELECTRICAL RECEPTACLE SHALL BE INSTALLED AT AN ACCESSIBLE TABLE. GC/EC SHALL REFERENCE FINAL DECOR PLANS AND PROVIDE RECEPTACLES AS NECESSARY FOR COMPLIANCE. (TYPICAL)
- 5 COORDINATE LOCATION OF RECEPTACLES SO THAT RECEPTACLES ARE LOCATED ON FULL HEIGHT WALLS PER THE DECOR PLAN. STUB UP AND CIRCUIT IN HALF WALL FOR RECEPTACLES NOT ON FULL HEIGHT WALLS. CONFIRM FINAL LOCATIONS WITH DECOR DRAWINGS PRIOR TO ROUGH-IN.
- 6 IF MOUNTED TO A LIGHTING POLE, DT CAMERA SHALL ONLY BE INSTALLED ON A POLE WITH MAXIMUM OF (2) LIGHTING HEADS. PROVIDE ISOLATION OF DT CAMERA MOUNTING HARDWARE AND POLE TO PREVENT BI-METALLIC OR GALVANIC CORROSION.
- 7 EC 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. EC SHALL IDENTIFY EXACT LOCATIONS IN FIELD AND WITH DECOR DRAWINGS. PROVIDE ALL NECESSARY MATERIALS AND SUPPORT FOR A COMPLETE AND FULL NEC CODE COMPLIANT INSTALLATION. ALL COMPONENTS SHALL BE FED FROM A GFCI TYPE CIRCUIT BREAKER AND BRANCH CIRCUIT SHALL CONTAIN TWO PATHS OF GROUNDING (CONDUIT BODY AND AN INSULATED GROUNDING CONDUCTOR) TO COMPLY WITH McDONALD'S GROUNDING STANDARDS.
- 8 DRIVE THRU WINDOW POWER, CONFIRM REQUIREMENTS WITH MANUFACTURER DRAWINGS.
- 9 PROVIDE POWER WITHIN CEILING FOR CONNECTION TO SELF ORDER KIOSKS. COORDINATE EXACT LOCATION OF KIOSKS WITH DECOR DRAWINGS. PROVIDE 2#12, 1#12 GRD., & 1#12 ISOLATED GROUND ON A 20A DEDICATED CIRCUIT FED FROM THE CP PANEL FOR EVERY ONE (1) DOUBLE SIDED OR TWO (2) SINGLE SIDED KIOSKS.
- 10 VERIFY DROP CORDS AND RECEPTACLES DO NOT FALL BELOW HEIGHTS LISTED ON E3.0 ELECTRICAL SCHEDULE. RECEPTACLES SHOULD BE LOCATED AT HEIGHTS TO AVOID CONTACT WITH HOT APPLIANCES.

11 PROVIDE J-BOX ABOVE CEILING NEAR KIOSK FOR FUTURE DIGITAL MERCHANDISER. EXTEND CIRCUIT TO THIS LOCATION FROM DIGITAL MERCHANDISER NEAR SERVICE AREA. EXTEND J-HOOKS FROM SERVICE AREA FOR FUTURE DATA CABLES.

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

13 PROVIDE A 5-20R RECEPTACLE FOR DELIVERY POD DOWNLIGHT, F12DP. INSTALL RECEPTACLE AT 7'-6" AFF. PROVIDE 2#12, 1#12GRD IN 1/2" C TO A 20A CIRCUIT FROM THE LP PANEL. REFER TO LIGHTING PLAN FOR CIRCUIT NUMBER.

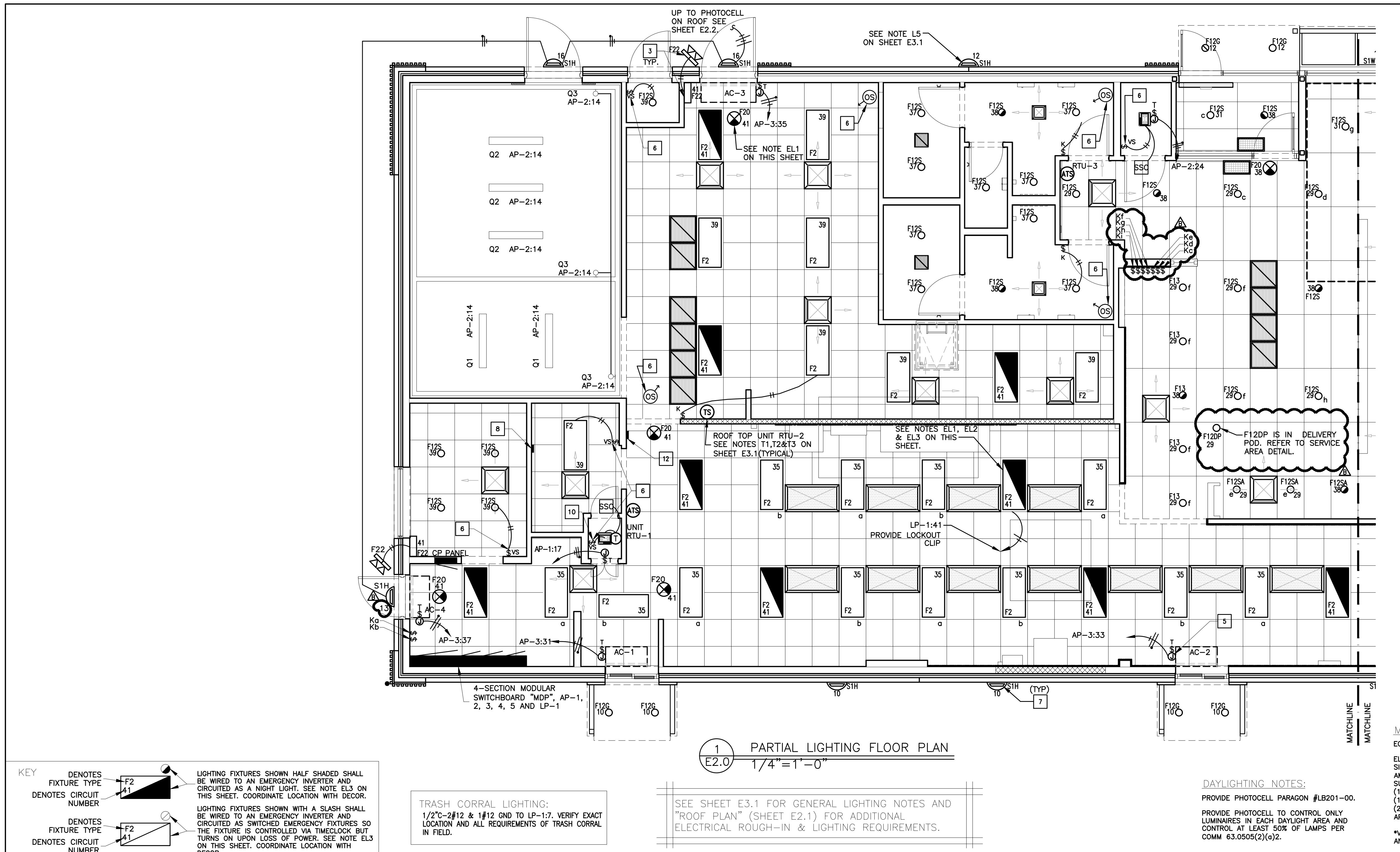
SHEET NO.	TITLE	DRAWN BY	REVIEWED BY
015-0071.00.B	2019 STANDARD BUILDING - BB20	MRL	WLW
	4597F10-WOOD/WOOD		
	WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI		
	WOOD ROOF TRUSS FRAMING		
	FIBER CEMENT PANEL/BATTEN/ALUMINUM/BRICK EXTER. FINISH		
	SITE ADDRESS		
015-0071	605 SOUTH 7TH STREET, KANSAS CITY, KS		
	REV 1975		
		BY DATE	
		12/03/20	
		11/13/20	USRD SAO SET REVIEW
		05/05/20	CIVIL & PLAN REVIEW COMMENTS
		01/23/20	PERMIT SET
		01/13/20	PROGRESS SET REVIEW
			REV DATE

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**McDonald's USA, LLC**  
3801.0037  
Matthew W. Mulls  
LIC# 17667  
12/03/20

PREPARED BY:  
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## LIGHTING FIXTURE SCHEDULE:

MARK	SYMBOL	DESCRIPTION	DIFFUSER	LAMPS		BALLAST	MOUNTING	MANUFACTURER AND CATALOG NUMBER	Q1	REFRIGERATION LIGHTING	INTERNAL PRISMATIC LENS VAPOR TIGHT	81.1W	LED	-	SURFACE FREEZER/COOLER	METALUX 4VT2-LD4-8-DR-UNV-L835-CD1-WL-U				
				WATTS	TYPE															
F2	□	2' X 4' GRID TROFFER	PRISMATIC ACRYLIC	44W	LED	-	RECESSED	SECURITY LIGHTING: # LCAT24-35HLC-EDU-WP-CK	Q2	REFRIGERATION LIGHTING	INTERNAL PRISMATIC LENS VAPOR TIGHT	38W	LED	-	SURFACE FREEZER/COOLER	METALUX 4VT2-LD4-4-DR-UNV-L835-CD1-WL-U				
F12DP	○	4" LED DOWN LIGHT - GOLD TRIM - DELIVERY POD	9W	LED	-	RECESSED	SECURITY LIGHTING # LB4A-6LDDM-30K-9-GD/IBX4L-120	Q3	REFRIGERATION LIGHTING	INTERNAL PRISMATIC LENS VAPOR TIGHT	1-100	A16	-	SURFACE TO WALL FREEZER AND COOLER	KASON REFRIGERATION LIGHTING: 1802000002, WITH WIRE GUARD.					
F12G	○	6" LED DOWN LIGHT - SHALLOW HOUSING	12W	LED	-	RECESSED	SECURITY LIGHTING # LB6LEDA10L-50K-9-GD/RMNIC-QL	S1H	"DOWN ONLY" RADIAL WALL SCONCE - SILVER	TEMPERED GLASS	(1)-14W	LED	-	SURFACE TO WALL	SECURITY LIGHTING: #RWSC-36L-5K-D0-U-PS					
F12S	○	6" LED DOWN LIGHT	-	12W	LED	-	RECESSED	SECURITY LIGHTING # LB6LEDA10L-30K-9-SA/DBXOL-DM COORDINATE DOWN LIGHT TO BE USED IN DINING WITH PHOTOMETRIC	S1W	"DOWN ONLY" RADIAL WALL SCONCE - WHITE	TEMPERED GLASS	(1)-14W	LED	-	SURFACE TO WALL	SECURITY LIGHTING: #RWSC-36L-5K-D0-U-WH				
F13	○	4" LED DOWN LIGHT	-	25W	LED	-	RECESSED	SECURITY LIGHTING # LF4SL-4LFSL20L-30K-SP-SL-DL-B24	LIGHTING SCHEDULE NOTES:											
F14	○	ALPHABET PENDANT	-	(1)-8W	LED	-	PENDANT	SECURITY LIGHTING # MS-P-A-BM-108LED-CBC (TO BE VERIFIED WITH DECOR DRAWINGS)	LS1. ORDER LED EXIT SIGNS WITH LETTER COLORS THAT COMPLY WITH LOCAL CODES. - FOR RED LETTERS USE #EVE-U-R (UNIVERSAL), - FOR GREEN LETTERS USE #EVE-U-G (UNIVERSAL), OR IF THE ABOVE EXIT SIGNS DO NOT COMPLY WITH LOCAL CODES USE: LED SIGN WITH BATTERY BACKUP, LETTER SIZE, COLOR, TYPE & DIRECTIONAL ARROWS AS REQUIRED BY THE LOCAL AUTHORITIES.											
F20	○	EXIT SIGN WITH BATTERY BACKUP	-	1.8W	LED	-	SURFACE	SECURITY LIGHTING: EVEURWE. SEE NOTE LS2 ON THIS SHEET.	LS2. ALL INTERIOR LIGHT FIXTURES SHALL BE 120 VOLT UNLESS NOTED OTHERWISE.											
F21	○	2 HEADED EMERGENCY BATTERY LIGHT	-	-	LED	-	SURFACE TO WALL OR CEILING	SECURITY LTG. #EV4D	LS3. LIGHTING FIXTURES HAVE BEEN CHOSEN TO ACHIEVE MAXIMUM ENERGY CONSERVATION WHILE MAINTAINING ADEQUATE LEVEL OF ILLUMINATION. SPECIFICATIONS SHALL BE STRICTLY FOLLOWED. ANY DEVIATION FROM THE SPECIFICATIONS SHALL BE APPROVED IN WRITING BY McDONALD'S CORPORATION.											
F22	○	EMER BATTERY & 2 REMOTE HEADS	-	-	LED	-	SURFACE TO WALL OR SOFFIT	SECURITY LTG. #EV4D-02L-0/EV0DB	LS4. VERIFY DOWNLIGHT TO BE USED IN DINING WITH PHOTOMETRIC											
F23	○	2 HEADED EMERG LIGHT & 2 REMOTE HEAD IF REQ'D	-	-	LED	-	SURFACE TO WALL OR SOFFIT	SECURITY LTG. #EV4D/EV0DB												

KEY NOTES	
1	CENTER PENDANT LIGHTS OVER TABLES (TYPICAL)
2	ALL SOFFIT LOCATIONS, LIGHTING, & SUPPLY GRILLS SHALL BE COORDINATED WITH DECOR COMPANY DRAWING PRIOR TO INSTALLATION.
3	EC SHALL INSTALL AND CONFIGURE REMOTE EMERGENCY LIGHTING AT ALL EGGS EXTERIOR DOORS FOR MAXIMUM ILLUMINATION AT POINTS OF EGGS. INSTALL WP J-BOX WITHIN SOFFIT TO ALLOW A FLUSH INSTALLATION OF ANY EXTERIOR EMERGENCY EGGS (TYPICAL).
4	OPTIONAL ADJUSTABLE WALL WASH FIXTURE TO ILLUMINATE LOGO OR GRAPHICS. EC SHALL VERIFY EXACT LOCATION SO AS TO ADEQUATELY ILLUMINATE McDONALD'S ARCH LOGO SIGN AND GRAPHICS.
5	AIR CURTAIN UNIT, NON HEATED VERSION TO USE 1/2" C, 2#12, 1#12RD. HEATED VERSION TO USE 1" C, 2#6, 1#10 RD. (TYPICAL).
6	PROVIDE DUAL TECHNOLOGY OCCUPANCY SENSOR OR VACANCY SENSOR SWITCH AS SHOWN, ORDER ALL SENSORS FROM: SECURITY LIGHTING SYSTEMS, INC.
7	RADIAL WALL SCONCE. SEE NOTE L2 ON SHEET E3.1 AND ARCHITECTURAL ELEVATIONS ON SHEETS A2.0 & A2.1. (TYPICAL)
8	BUILDING AUTOMATION SYSTEM LOCATION. SEE LIGHTING CONTROL DETAILS ON SHEET E4.1.
9	PROVIDE DUAL-LITE LIGHTING INVERTER MODEL #LG125T FOR USE WITH TYPE F12S, F12SA & F12O FIXTURES SHOWN SHADeD OR SLASHeD. EC SHALL FIELD VERIFY EXACT QUANTITY AND LOCATION OF DEVICE PROVIDED IN INSTALLATION. EC SHALL VERIFY QUANTITY OF FIXTURES THAT CAN BE CONNECTED TO INVERTER WITHOUT EXCEEDING OPERATING CAPACITY OF UNIT AND PROVIDE ADDITIONAL CIRCUITS AND INVERTERS AS REQUIRED. (TYPICAL)
10	CENTER VACANCY SENSOR SWITCH OPPOSITE COMPUTER RACK IN A LOCATION ACCESSIBLE FROM BOTH DOORS FOR CONTROL OF CEILING MOUNTED LIGHT, IN DATA ROOM. FAN CONTROLLED BY LOCAL THERMOSTAT.
11	PROVIDE POWER FOR LIGHT WITHIN TOY DISPLAY. COORDINATE EXACT LOCATION WITH DECOR DRAWINGS.
12	LIGHTING CONTACTORS IN NEMA 1 ENCLOSURE JUST BELOW CEILING. EC SHALL PROVIDE 120 VOLT CONTROL CIRCUIT TO CONTACTOR PANEL. VERIFY EXACT LOCATION IN FIELD AND REFER TO DRAWING E4.1 FOR ADDITIONAL DETAILS.

**McDonald's USA, LLC**  
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12/03/20  
PREPARED BY:

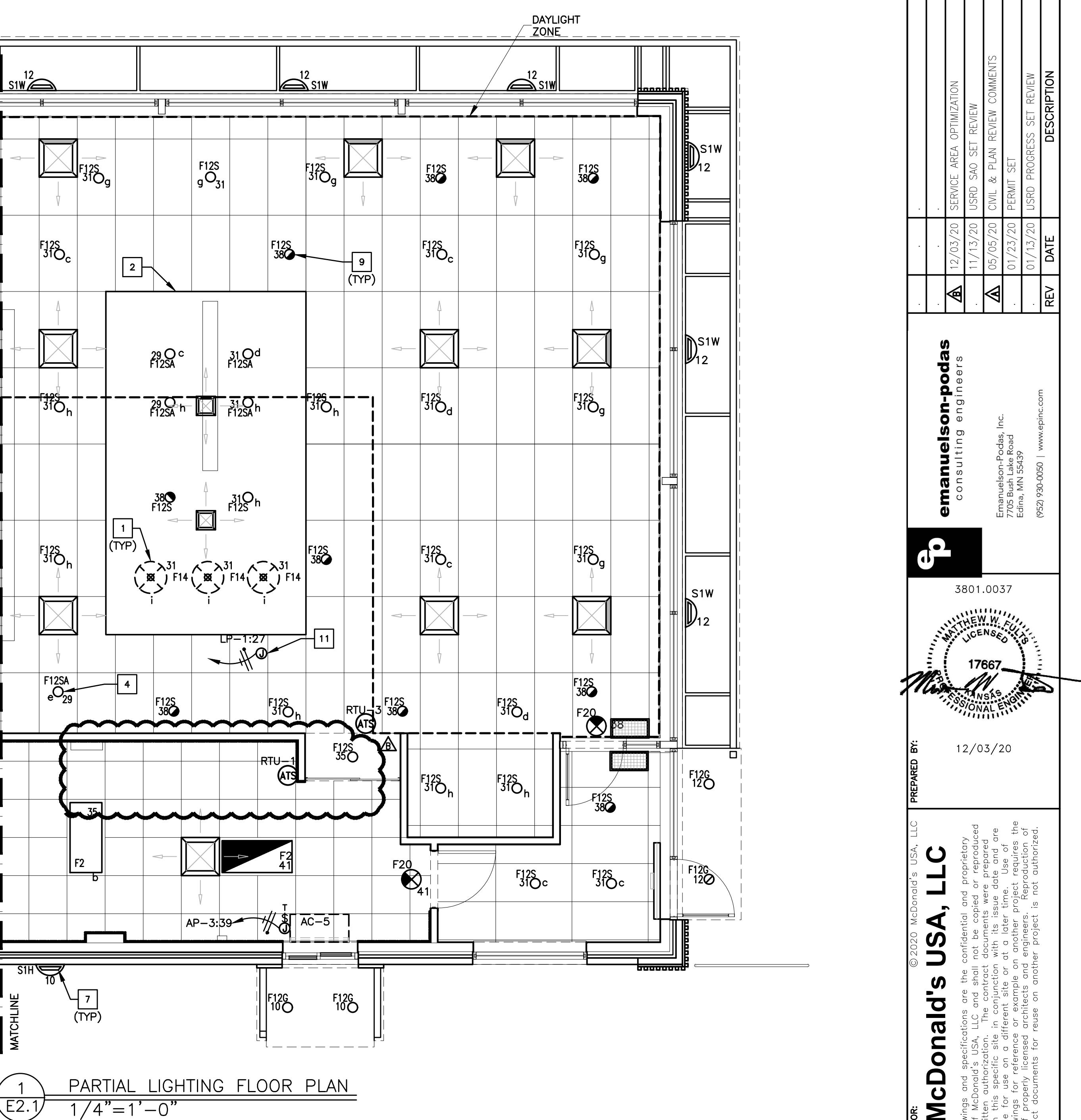
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**E2.0**  
LIGHTING PLAN  
SHEET NO. 015-0071.00.B  
TITLE 2019 STANDARD BUILDING - BB20  
DESCRIPTION 4597F10-WOOD/WOOD  
DRAWN BY MRL  
STD ISSUE DATE 2019-11-01  
REVIEWED BY WLW  
DATE ISSUED 01-23-20  
SITE ID 605 South 7th Street, Kansas City, KS  
ADDRESS 015-0071.00.B  
PHONE: 760-477-1244  
EMAIL: MCD@CSILLUMINATIONS.COM  
WWW.CSILLUMINATIONS.COM/MCD

PB = Pullbox  
JB = Junction Box  
EC = Electrical Contractor  
VIF = Verify in Field

TAG #	QTY	DESCRIPTION	VOLT/PH	FLA	BRK SIZE	COND/WIRE	PNL/CCT	RECEP TYPE	HGT AFF	REQUIREMENTS & REMARKS
701.13E9	5	DCO - GENERAL PURPOSE	120/1	1.5	20A	1/2C-2#12	AP-2:42	5-20R	1'-6"	-
701.14E1	1	TELEPHONE	PHONE BOX	-	-	-	-	RJ-11C JACK	4'-6"	-
701.14E3	1	TELEPHONE	PHONE BOX	-	-	-	-	RJ-11C JACK	3'-6"	-
701.15E1	1	DOOR BUZZER	120/1	.5	20A	1/2C-2#12	LP-1:16	-	8'-0"	CONNECT TRANSFORMER TO POWER & ROUTE LOW VOLTAGE WIRES OVERHEAD TO DOOR BUTTON
701.16E1	2	DOOR ALARM	120/1	.5	20A	1/2C-2#12	LP-1:16	JB	SEE RMKS	JUNCTION BOX ABOVE CEILING, PROVIDE LOCKOUT ON CIRCUIT BREAKER HANDLE.
701.22E1	1	WAYPORT - WIRELESS INTERNET SERVER	120/1 ISOLATED	1.5	20A	1/2C-2#12IG	CP:2	IG5262	8'-0"	-
701.22E2	1	WAYPORT - WIRELESS INTERNET SERVER	DATA CABLE	-	-	-	-	JB	8'-0"	EXTEND 1" CONDUIT ABOVE CLG. W/BUSHING FOR DATA CABLE
701.27E1	1	DCO-SATELLITE MUSIC SYSTEM	120/1	1.0	20A	1/2C-2#12	AP-3:6	(2) 5-20R	3'-0"	PROVIDE DOUBLE DUPLEX WALL PLATE
701.32E1	1	REMOTE ORDER TAKER BATTERY PACK	120/1	2.0	20A	1/2C-2#12	AP-1:9	(2) 5-20R	4'-6"	PROVIDE DOUBLE DUPLEX WALL PLATE. FIELD VERIFY HEIGHT AND LOCATION WITH ACM
701.34E1	1	ACCESS CONTROL PANEL	120/1	2.0	20A	1/2C-2#12	LP-1:16	JB	8'-0"	ROUTE LOW VOLTAGE WIRES TO DOOR BUTTON, HORN AND DOOR STRIKE AS REQUIRED

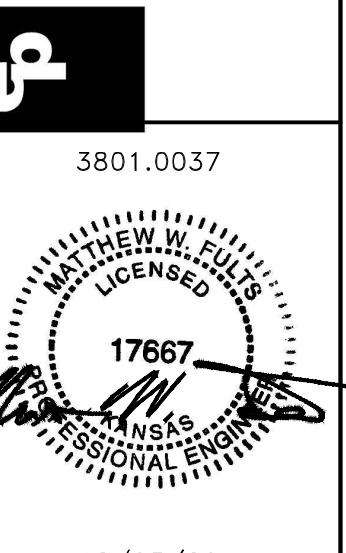
## ELECTRICAL SCHEDULE



SHEET NO.	TITLE	PREPARED BY:	DRAWN BY	REVIEWED BY	APPROVED BY:	DATE ISSUED	DESCRIPTION	DATE ISSUED	REV. DATE
015-0071.00.8	2019 STANDARD BUILDING - BB20 4597F10-WOOD/WOOD	MRL	MRL	WLR	WLR	12/03/20	SERVICE AREA OPTIMIZATION	11/17/20	USRD, SAD, SET REVIEW

emmanuelson-podas  
consulting engineers

Emmanuelson-Podas, Inc.  
Attn: J. N. 5549  
(952) 930-0050 | www.epinc.com



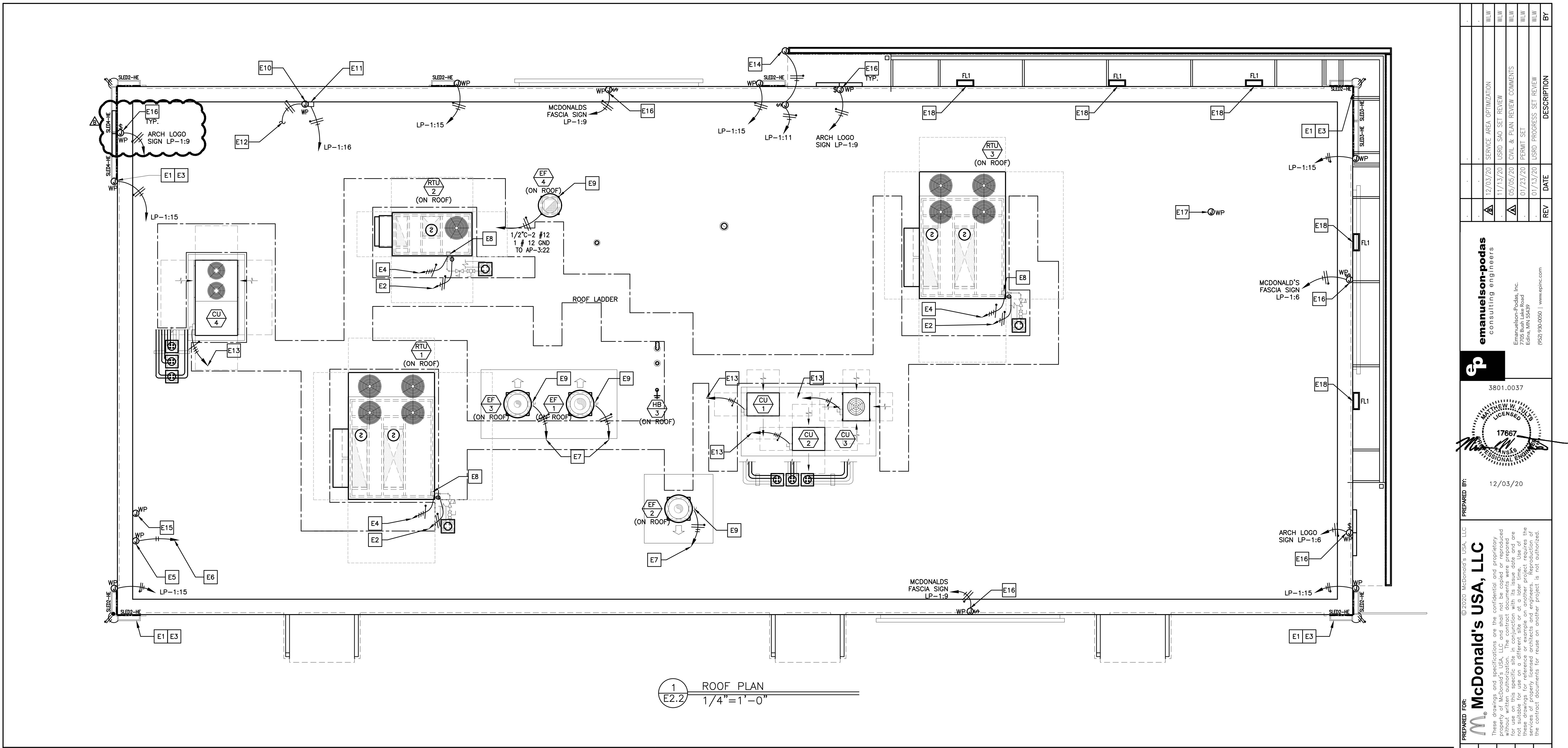
12/03/20

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SHEET NO.	TITLE	STD ISSUE DATE	REVIEWED BY	APPROVED BY	DATE ISSUED	DESCRIPTION	DATE ISSUED	REV. DATE
015-0071.00.8	2019 STANDARD BUILDING - BB20 4597F10-WOOD/WOOD	2019-11	WLR	WLR	12/03/20	WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI WOOD ROOF TRUSS FRAMING FIBER CEMENT PANEL/BATTEN/ALPOLIC PANEL/BRICK EXT. FINISH	01-23-20	01-23-20

REFER TO E2.0 FOR NOTES. SEE SHEET E3.1 FOR GENERAL  
LIGHTING NOTES AND "ROOF PLAN" (SHEET E2.2) FOR ADDITIONAL  
ELECTRICAL ROUGH-IN & LIGHTING REQUIREMENTS.

**E2.1**  
LIGHTING PLAN



## KEYED NOTES

- E1 EVERY LINEAR RUN OF SLED FIXTURES REQUIRES A DEDICATED WHIP KIT PROVIDED WITH FIXTURE. CONTRACTOR TO FIELD VERIFY FIXTURE MOUNTING HEIGHT, LOCATION, QUANTITY, FIXTURE LENGTHS, AND ALL ELECTRICAL CONNECTION REQUIREMENTS WITH SECURITY LIGHTING PRIOR TO ORDERING AND INSTALLATION (TYPICAL).
- E2 WEATHER PROOF RECEPTACLES WITH GFCI PROTECTION ARE PROVIDED AND MOUNTED WITHIN MOTOR HOUSING LOCATIONS PER NEC ARTICLE 210.63. CIRCUIT SHALL EMANATE FROM PANEL AP-3,CCT.#34.(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 E.C. SHALL PROVIDE A WEATHER-PROOF JUNCTION BOX ON INSIDE FACE OF PARAPET FOR PHOTOCELL INSTALLATION. MOUNT JB 6" BELOW TOP OF PARAPET. PHOTOCELL FURNISHED AND INSTALLED BY EC. MOUNT FACING NORTH.
- E11 PHOTOCELL ON ROOF (SEE SHEET E2.0 FOR CONTINUATION AT DOOR LOCATIONS).
- E12 TO SOFFIT LIGHT FIXTURES NEAR DOORS. SEE SHEET E2.0 FOR CONTINUATION. TYPICAL FOR CCT LP-1:16.
- E13 REMOTE CONDENSING UNITS. SEE SHEET E3.0 FOR WIRING AND CIRCUITRY REQUIREMENTS.
- E14 CANOPY LIGHT. LP-1:11 EC SHALL VERIFY EXACT SPECIFICATIONS AND LOCATION WITH MANUFACTURER. REMOTE POWER SUPPLIES ABOVE ACCESSIBLE CEILING WITHIN VESTIBULE. VERIFY EXACT INFEEF REQUIREMENTS IN THE FIELD. SEE NOTE L5 ON SHEET E3.1. (TYPICAL)
- E15 E.C. SHALL PROVIDE A WEATHER-PROOF JUNCTION BOX WITH 3/4" 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.
- E16 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)
- E17 E.C. SHALL PROVIDE A JUNCTION BOX FOR ROOF-TOP FLAG POLE LIGHTING. VERIFY LOCATION(S) WITH MCD PROJECT MANAGER PRIOR TO INSTALLATION.
- E18 FLOOD LIGHT MOUNTED ABOVE CANOPY. LP-1:11 EC SHALL VERIFY EXACT SPECIFICATIONS AND LOCATION WITH ARCHITECTURAL ELEVATIONS. VERIFY EXACT INFEEF REQUIREMENTS IN THE FIELD. SEE FLOOD LIGHT DETAIL ON SHEET E3.1. (TYPICAL)

## DRAWING NOTES

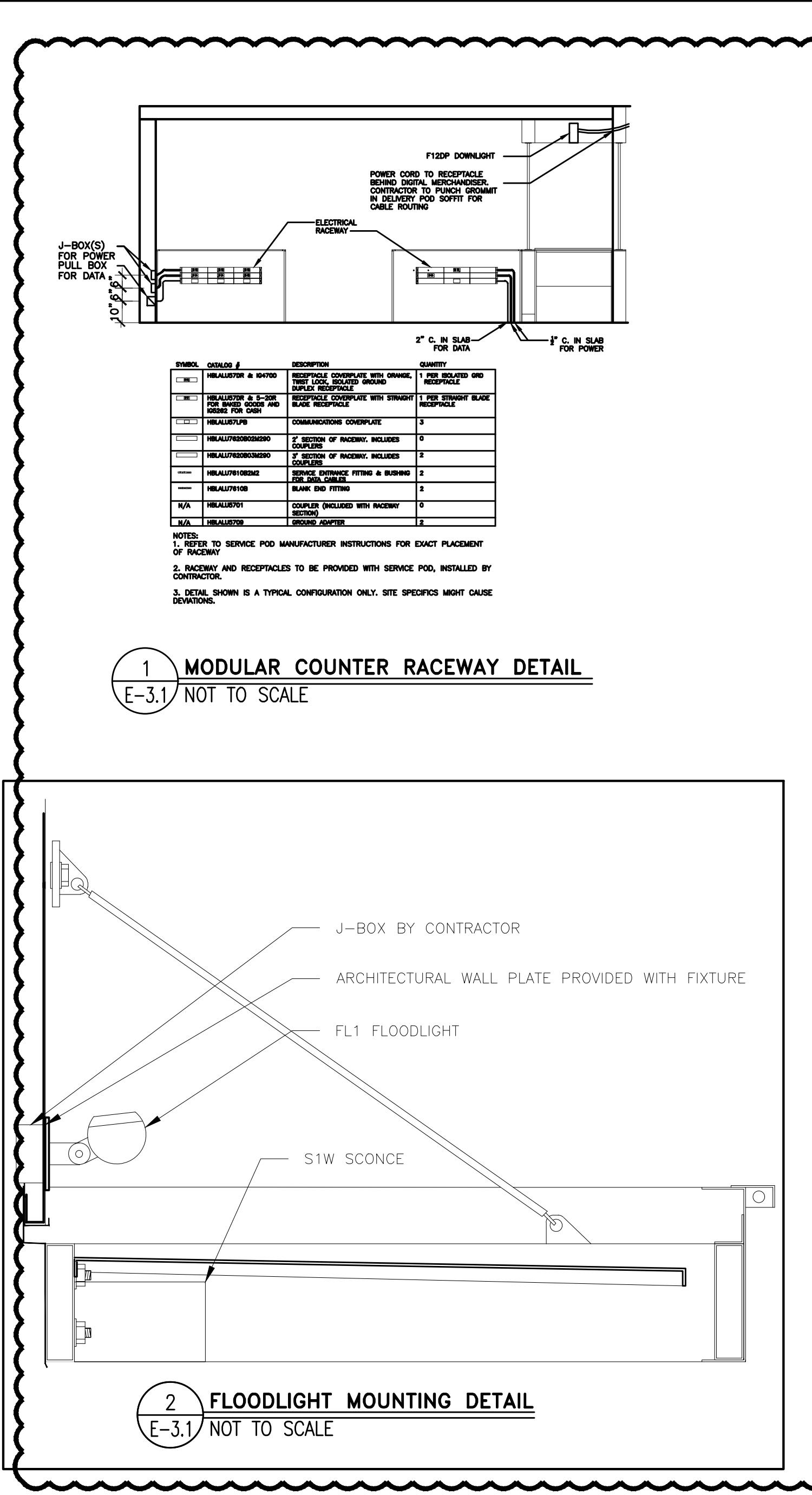
1. SEE DRAWING M-4.0 FOR GENERAL MECHANICAL NOTES.
2. SEE DRAWINGS M-3.0 AND M-4.1 FOR MECHANICAL EQUIPMENT SCHEDULES AND DETAILS.
3. SEE DRAWING M-4.0 FOR MECHANICAL LEGEND.
4. SEE DRAWING K-2.1 FOR REMOTE CONDENSER AND MAC UNIT INFORMATION.
5. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

## LED FIXTURE SCHEDULE:

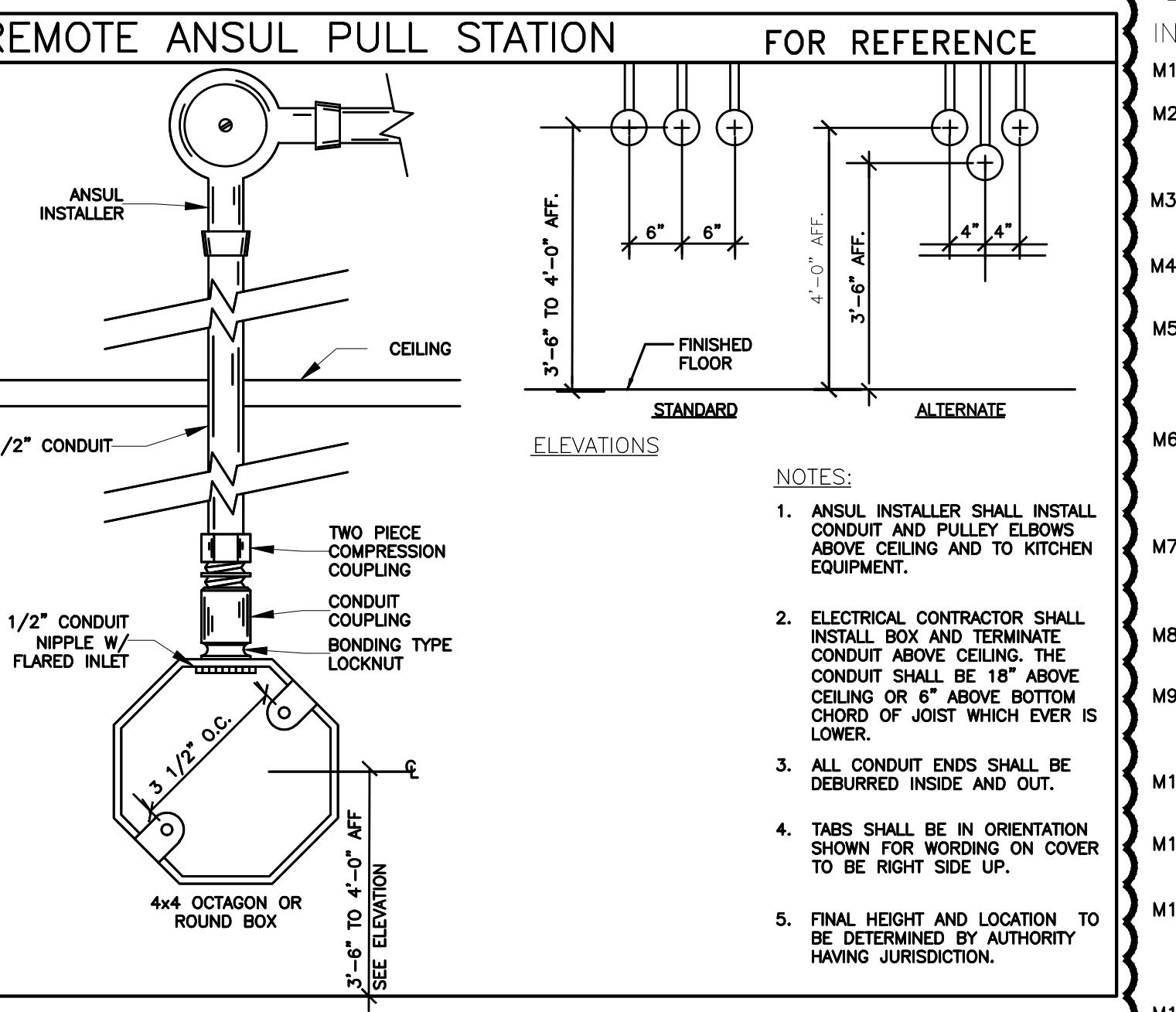
MARK	SYMBOL	DESCRIPTION	DIFFUSER	LAMPS WATTS PER Fixture	BALLAST	MOUNTING	MANUFACTURER AND CATALOG NUMBER
SLED3	■	DOWN ONLY ACCENT LIGHTING (SEE PLAN)	TEMPERED GLASS	1-30W PER Fixture	LED	-	SECURITY LIGHTING: SLED-HE-36-DO-U-I0-C16 CUSTOM BUILT FOR EXTERIOR ACCENT CHANNELS.
SLED2-HE	■	DOWN ONLY ACCENT LIGHTING (SEE PLAN)	TEMPERED GLASS	1-10W PER Fixture	LED	-	SECURITY LIGHTING: SLED-HE-24-DO-U-I0 CUSTOM BUILT FOR EXTERIOR ACCENT CHANNELS.
SLED3-HE	■	DOWN ONLY ACCENT LIGHTING (SEE PLAN)	TEMPERED GLASS	1-14W PER Fixture	LED	-	SECURITY LIGHTING: SLED-HE-36-DO-U-I0 CUSTOM BUILT FOR EXTERIOR ACCENT CHANNELS.
SLED4-HE	■	DOWN ONLY ACCENT LIGHTING (SEE PLAN)	TEMPERED GLASS	1-19W PER Fixture	LED	-	SECURITY LIGHTING: SLED-HE-48-DO-U-I0 CUSTOM BUILT FOR EXTERIOR ACCENT CHANNELS.
FL1	■	UP ONLY ACCENT LIGHTING (SEE PLAN)	TEMPERED GLASS	1-16W PER Fixture	LED	-	SECURITY LIGHTING: EL218-W-5-8L-5K-UV-I0-JW10

SHEET NO.	TITLE	DRAWN BY	REVIEWED BY	DATE ISSUED
015-0071.00.B	2019 STANDARD BUILDING - BB20	MRL 2019-11	WLW	01-23-20
	4597F10-WOOD/WOOD			
	WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI			
	WOOD ROOF TRUSS FRAMING			
	FIBER CEMENT PANEL/BATTEN/ALUMINUM/BRICK EXC. FINISH			
015-0071.00.B	SITE ADDRESS	605 SOUTH 7TH STREET, KANSAS CITY, KS		R#1975
E2.2	ELEC. ROOF PLAN			

VIF = Verify in Field														VIF = Verify in Field																			
PB = Pullbox	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	120/1 ISOLATED	2.6	20A	1/2C-2#12IG	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"	-	RECEP #460R9 BY KES, IF CARPIGNANI K3 IS ORDERED USE A 30A BRKR & #10 CONDUCTORS -EC MAKES FINAL CONN	SEE RMKS										
004.20E7	1	MENU BOARD - DIGITAL	120/1 ISOLATED	2.6 EACH	20A	1/2C-2#12IG	CP:6	(2) IG5262	6'-2"	-	203.02E1	1	HEAT TREAT COMBINATION SHAKE/SUNDAE MACHINE	208/3	35.0	45A	3/4C-3#6	AP-1:(18,20,22)	4x4x4 PB	1"-0"	-	RECEP #460R9 BY KES, IF CARPIGNANI K3 IS ORDERED USE A 30A BRKR & #10 CONDUCTORS -EC MAKES FINAL CONN	SEE RMKS										
004.21E1	1	MENU BOARD - DIGITAL - MEDIA PLAYER	120/1 ISOLATED	1.0 EACH	20A	1/2C-2#12IG	CP:6	(2) IG5262	7"-9"	EC TO MOUNT OUTLETS HORIZONTALLY	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	SEE RMKS											
004.21E2	1	MENU BOARD - DIGITAL - MEDIA PLAYER	DATA CABLE	-	-	-	-	JB	9"-0"	JB W/ 2-1/2" C. TO TERMINATE ABOVE CEILING W/BUSHINGS, FOR DATA CABLES, SUPPLY W/GROMMETED OPENING IN COVER PLATE	206.09E2	1	FROZEN BEVERAGE DISPENSER	208/1	20.0	30A	1/2C-2#10	AP-4:(17,19)	SEE RMKS	SEE RMKS	RECEP L-6-30R IN CHASE BY KES, EC MAKES FINAL CONN	SEE RMKS											
004.21E3	1	MENU BOARD - DIGITAL - MEDIA PLAYER	DATA CABLE	-	-	-	-	JB	7"-9"	JB W/ 2-1/2" C. TO TERMINATE ABOVE CEILING W/BUSHINGS, FOR DATA CABLES, SUPPLY W/ GROMMETED OPENING IN COVER PLATE	209.06E1	1	McDELIVERY CENTER	120/1	1.5	20A	1/2C-2#12	AP-4:23	5-20R	2"-0"	-	EC TO EXTEND CIRCUIT TO 5-20R RECEPTACLE UNIT	SEE RMKS										
004.21E3	1	DIGITAL MERCHANTISER - MEDIA PLAYER	120/1 ISOLATED	1.0	20A	1/2C-2#12IG	CP:6	IG5262	6'-5"	USE SAME RECEPTACLE AS 4.20E6	210.00E10	1	CASH RECYCLER	120/1	4.4	20A	1/2C-2#12IG	CP:23	(2) IG5262	SEE RMKS	PROVIDE RECEP. IN COUNTER-MOUNTED RACEWAY	SEE RMKS											
004.23E1	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	213.00E11	1	TABLE LOCATOR SYSTEM	120/1	2.6	20A	1/2C-2#12IG	CP:4	SEE RMKS	SEE RMKS	EC TO EXTEND CIRCUIT BELOW SLAB TO NEAREST FULL HEIGHT WALL, PROVIDE IG5262 RECP. IN COUNTER-MOUNTED RACEWAY	SEE RMKS											
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	213.00E8	1	TABLE LOCATOR SYSTEM	120/1	2.6	20A	1/2C-2#12IG	CP:21	SEE RMKS	SEE RMKS	4"-0" TSS SERVER, COORDINATE WITH MANUFACTURERS REQUIREMENTS	SEE RMKS											
009.15E1	1	UTILITY CHASE - FFDT INTERIOR WALL	-	-	-	-	-	-	-	SEE RMKS	UTILITY CHASE AND RECEPTACLES PROVIDED BY K.E.S.																						
009.16E1	2	UTILITY CHASE - FFDT EXTERIOR WALL	-	-	-	-	-	-	-	SEE RMKS	UTILITY CHASE AND RECEPTACLES PROVIDED BY K.E.S.																						
010.10E1	1	COC DRIVEN KETCHUP DISPENSER	-	-	-	-	-	JB	10"	FOR CO2 LINE TO KETCHUP DISP. IF CHASE IS NOT SPECIFIED. SEE P1.6	214.00E2	1	GREW VIDEO	120/1	3.0	20A	1/2C-2#12IG	CP:24	IG5262	5"-0"	-	FOR SWITCHES, HUBS AND DRIVE-THRU CAMERS	SEE RMKS										
012.03E4	1	BAKED GOODS DISPLAY CASE - 14"	120/1	2.5	15A	1/2C-2#12	AP-3:1	5-15R	SEE RMKS	EC TO EXTEND CIRCUIT BELOW SLAB TO NEAREST FULL HEIGHT WALL, PROVIDE RECEP. IN COUNTER-MOUNTED RACEWAY	214.02E1	1	TECHNOLOGY RACK	120/1	5.0	20A	1/2C-2#12IG	CP:11	IG4700	7"-6"	-	FOR SECURITY SYSTEM	SEE RMKS										
020.01E1	2	AUTOMATED BEVERAGE SYSTEM 2.0	120/1	5.0	20A	1/2C-2#12	AP-1:12	5-20R	2"-0"	-	214.02E2	1	TECHNOLOGY RACK	120/1	3.0	20A	1/2C-2#12IG	CP:12	IG4700	3"-0"	-	FOR CASHLESS DEVICE UPS	SEE RMKS										
020.01E2	2	AUTOMATED BEVERAGE SYSTEM 2.0	120/1	14.9	20A	1/2C-2#12	AP-1:5	5-20R	3"-10"	FOR PRE-COOLER	214.02E3	1	TECHNOLOGY RACK	120/1	12.0	20A	1/2C-2#12IG	CP:17	IG4700	3"-0"	-	FOR POS SYSTEM UPS AND ORB CONTROLLER	SEE RMKS										
021.01E3	3	COFFEE BREWER (THERMAL POTS)	120-208/1	15.5	20A	1/2C-3#12	AP-1:(2,4)(14,16), AP-3(26,28)	BY KES	SEE RMKS	EC TO EXTEND CIRCUIT TO L14-20R 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	SEE RMKS											
021.09E3	1	HOT WATER DISPENSER	120/1	15.4	20A	1/2C-2#12	AP-2:13	BY KES	SEE RMKS	EC TO EXTEND CIRCUIT TO 5-20R RECEPTACLE IN CHASE	215.00E12	2	POS REGISTER - FRONT COUNTER	120/1	3.0 EA	-	3/4C-2#12IG	CP:19	IG4700	SEE RMKS	PROVIDE IG RECEP. IN COUNTER-MOUNTED RACEWAY	SEE RMKS											
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	215.00E15	1	POS REGISTER - FRONT COUNTER	DATA CABLE	-	-	-	-	4x4x4 PB	10"	EXTEND 2" CONDUIT UNDER SLAB TO NEAREST FULL HEIGHT WALL AND TO ABOVE CEILING FOR POS DATA CABLES	SEE RMKS											
023.12E1	2	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	215.00E3	1	POS REGISTER - FRONT COUNTER	DATA CABLE	-	-	-	-	4x4x4 PB	10"	EXTEND 2" CONDUIT ABOVE CEILING FOR POS DATA CABLES IN PRESENTERS BOOTH, CONNECT TO CP-7 - IN PRESENTERS BOOTH, CONNECT TO CP-8	SEE RMKS											
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	215.02E1	1	POS REGISTER - 2 WINDOW D/T	120/1	3.0 EA	SEE RMKS	1/2C-2#12IG	SEE REMARKS	(2) IG4700	2"-0"	IN PRESENTERS BOOTH, CONNECT TO CP-7 - IN PRESENTERS BOOTH, CONNECT TO CP-8	SEE RMKS											
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"	-	215.02E10	2	POS REGISTER - 2 WINDOW D/T	120/1	3.0 EA	SEE RMKS	1/2C-2#12IG	CP:1	BY KES	SEE RMKS	EC TO EXTEND CIRCUIT TO IG4700 RECEPTACLE IN CHASE	SEE RMKS											
025.07E2	1	INFUSION TEA BREWER - MIS	-	-	-	-	-	JB	2"-3"	FOR WATER LINE TO ICED TEA BREWER IF CHASE IS NOT SPECIFIED. (SEE P1.6)	215.02E12	2	POS REGISTER - 2 WINDOW D/T	-	-	-	-	18x1x4 PB	10"	REFER TO D/T LOW VOLTAGE CONDUIT DIAGRAM FOR CONDUITS UNDER SLAB AND EXTEND (2) 2 1/2" TO ABOVE CLG.	SEE RMKS												
031.03E1	1	SODA SYSTEM PACKAGE - B.I.B. (RECIRCULATING - 3 TOWERS)	208/3	26.0	30A	3/4C-3#10	AP-2:(37,39,41)	SEE RMKS	3"-0" SEE RMKS	EC SUPPLIES 30A-3P NF DISC SW MTD 9" BELOW CEILING PER NEC SECT. 4																							



**1 MODULAR COUNTER RACEWAY DETAIL**  
E-3.1 NOT TO SCALE



## GENERAL ELECTRICAL NOTES:

### INSTALLATION METHODS:

- ALL ELECTRICAL MATERIAL USED ON THIS PROJECT SHALL BE "UL" LISTED AND LABELED.
- ALL DIMENSIONS SHOWN ARE TAKEN FROM FACE OF GYP BOARD/PLYWOOD. THE EC SHALL MAKE NECESSARY DIMENSIONAL ALLOWANCES. ALL DIMENSIONS SHOWN ARE TO CENTER LINE OF OUTLET BOX AND/OR RECEPTACLE UNLESS NOTED OTHERWISE.
- ALL J-BOXES, DCOS AND OTHER ELECTRICAL DEVICES SHOWN SHALL BE RECESSED INTO A WALL, FLOOR OR CEILING UNLESS SPECIFICALLY NOTED OTHERWISE.
- 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.
- EC SHALL PROVIDE STAINLESS STEEL COVER PLATES ON ALL RECEPTACLES AND J-BOXES. ADDITIONALLY, EC SHALL PROVIDE ORANGE NYLON COVER PLATES MARKED "COMPUTER ONLY" ON ALL ISOLATED GROUND/DEDICATED CIRCUIT RECEPTACLES. PURCHASE PJ8CO (ONE DUPLEX) OR PJ82CO (TWO DUPLEX) FROM HUBBELL.
- ROUGH-INS FOR OPTIONAL EQUIPMENT ARE SHOWN ON THESE SHEETS. EC SHALL VERIFY WITH McDONALD'S PROJECT MANAGER WHICH OPTIONAL EQUIPMENT IS TO BE INCLUDED AND INSTALL OPTIONAL ROUGH-INS AS REQUIRED. PRICING FOR OPTIONAL ROUGH-INS SHALL BE INCLUDED IN BID AND CALLED OUT AS OPTIONAL.
- 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.
- 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.
- 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.
- ALL HOLES IN THE FRONT COUNTER FOR THE POS CORDS AND CABLES SHALL BE LOCATED BY OWNER AND DRILLED BY GC.
- ALL ELECTRICAL CONDUCTORS SHALL BE CONNECTED TO RECEPTACLES USING ONLY THE TERMINAL SCREWS. RECEPTACLE BACK WIRE/QUICK CONNECTIONS SHALL NOT BE USED.
- 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.
- POWER AND CONTROL CORDS ARE FURNISHED WITH KITCHEN APPLIANCES. THE EC SHALL CONNECT CORD SETS TO APPLIANCES AS REQUIRED.
- 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:

- 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.
- THE EC SHALL ARRANGE WITH THE ELECTRIC, TELEPHONE, AND OTHER UTILITY COMPANIES FOR INCOMING SERVICE REQUIREMENTS AND SHALL INCLUDE ALL COSTS IN BASE BID.
- 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.
- PROVIDE CONCRETE PAD IF TRANSFORMER IS LOCATED ON GRADE AND PROVIDE SECONDARY SERVICE FEEDER AND CONDUITS TO PANEL MDP AS PER LOCAL UTILITY REQUIREMENTS.
- 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.
- EC AND ACM OR OWNER/OPERATOR AND ACM SHALL COORDINATE WITH LOCAL PHONE COMPANY TO PROVIDE A 10 PAIR (OR MORE) COPPER TELEPHONE CABLE FROM THE TELEPHONE UTILITY EASEMENT TO THE RESTAURANT TELEPHONE DEMARCAPOINT. 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 BEAPPED AND LEFT IN PLACE FOR FUTURE USE. THE TELEPHONE PANEL/BOX SHALL BE GROUNDED AS SHOWN IN THE "BUILDING ELECTRICAL DRAWING DETAIL".
- 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:

- IF TELCOM CONDUIT IS TERMINATED WITHIN BUILDING, PVC SHALL TRANSITION TO HWG/RMC TYPE CONDUIT PRIOR TO RISING ABOVE FINISHED SLAB.
- PROVIDE THERMOPLASTIC BUSHINGS AT BOTH ENDS OF CONDUIT FOR CABLING PROTECTION.
- IF 90 DEGREE BENDS ARE REQUIRED, CONTRACTOR SHALL PROVIDE WIDE SWEEPING BENDS TO PREVENT BENDING/DAMAGE TO CABLE.
- ALL COMMUNICATIONS CABLING SHALL BE PULLED VIA THIS CONDUIT.
- INSTALL A MINIMUM OF 6 PULL WIRES IN CONDUIT TO ALLOW FOR THE INSTALLATION OF FUTURE CABLING. USE NO DEGRADE POLYPROPYLENE OR MONOFILAMENT PLASTIC LINE OR #12 AWG SOLID COPPER WIRE. DO NOT USE WIRES LESS THAN 20% OF TENSILE STRENGTH. PROVIDE AT LEAST 12 INCHES OF SLACK AT EACH END OF PULL WIRE.
- AFTER INSTALLATION OF COMMUNICATIONS CABLING AND PULLSTRINGS/WIRES, CONTRACTOR SHALL SEAL BOTH ENDS OF CONDUIT TO PREVENT INTRUSION FROM WEATHER, RODENTS, DEBRIS, ETC. SEAL SHALL BE OF TYPE TO ALLOW FOR REMOVAL FOR INSTALLATION OF FUTURE CABLING

### CONDUIT AND WIRE:

- THE FOLLOWING WIRING METHODS SHALL NOT BE USED: NON-METALLIC SHEATHED CABLE (ROMEX, NM, NMC, & NMS), ARMORED CABLE TYPE AC (BX), ELECTRICAL NON-METALLIC TUBING, TYPE ENT (SMURF-TUBE).
- CONDUTR 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.
- CONDUTR SHALL HAVE A MAXIMUM OF 4 BENDS WITHOUT A JUNCTION BOX TO PREVENT DAMAGE TO CABLE DURING PULLING. THE EC SHALL PITGAL #12 PULL WIRE AT EACH END FOR INSTALLER TO PULL CABLE. ALL LOW VOLTAGE CONDUIT STUB-UPS SHALL BE PROVIDED WITH A BUSHING.
- 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.
- 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.
- RACEWAYS SHALL BE ANY OF THE FOLLOWING MATERIALS, INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES:

#### OUTDOORS: (FOR SPECIFIC APPLICATIONS AND APPROPRIATE FITTINGS, SEE TABLE W6)

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

#### INDOORS: (FOR SPECIFIC APPLICATIONS AND APPROPRIATE FITTINGS, SEE TABLE W6)

- EXPOSED: EMT, IMC.
  - CONCEALED: EMT, IMC.
- (CONTINUED ON TOP)

- CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC, ELECTRIC SOLENOID, OR MOTOR-DRIVEN EQUIPMENT): FMC; EXCEPT USE LFMC IN DAMP OR WET LOCATIONS.
- DAMP OR WET LOCATIONS: RIGID STEEL CONDUIT.
- 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*
INDOORS	< 1" EMT COMPRESS. FTGS >1.25" IMC THREADED FTGS	IMC THREADED FTGS	EMT COMPRL. FTGS
OUTDOORS	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" COMPRL. FTGS
AIR HANDLING CEILING/SPACE	<2" EMT COMPRL. FTGS >2.5" IMC THREADED FTGS	>2" EMT COMPRL. FTGS < >2.5" IMC THREADED FTGS	EMT COMPRL. FTGS
NON-AIR HANDLING CEILING/SPACE	<2" EMT SET SCREW FTGS >2.5" IMC THREADED FTGS	>2" EMT COMPRL. FTGS > >2.5" IMC THREADED FTGS	EMT 1/2" - 2" SET SCREW FTGS 2.5" - 4" COMPRL. 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:

- ALL BRANCH AND FEEDER CIRCUITS SHALL BE GROUNDED BY TWO METHODS. THE FIRST METHOD SHALL INCLUDE AN INSULATED COPPER EQUIPMENT GROUNDING CONDUCTOR CONTAINED WITHIN THE SAME CONDUIT AS THE PHASE CIRCUIT CONDUCTORS AND SIZED PER NEC SECTION 250 REQUIREMENTS. THIS INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL HAVE ONE END PROPERLY TERMINATED AT THE EQUIPMENT GROUND BUS IN THE CORRESPONDING CIRCUIT BREAKER PANEL, AND THE OTHER END TERMINATED AT THE GROUNDING CONTACT OF A GROUNDING RECEPTACLE AND TO THE JUNCTION BOX OR TO AN EQUIPMENT CABINET, APPPLICABLE. THE SECOND METHOD PROVIDES EQUIPMENT GROUNDING VIA METALLIC CONDUIT THAT IS CONNECTED AND TERMINATED IN FITTINGS LISTED FOR GROUNDING PER NEC SECTION 250 REQUIREMENTS. BOTH GROUNDING METHODS ARE REQUIRED IN A McDONALD'S RESTAURANT. ISOLATED GROUND SHALL BE INSTALLED WHERE INDICATED ON PLAN AND AS SHOWN IN POS ISOLATED GROUND/DEDICATED CIRCUIT DETAIL ON SHEET E4.2.
- THE BUILDING GROUNDING SYSTEM SHALL COMPLY WITH NEC ARTICLE 250. McDONALD'S SPECIFICATIONS, AND SHEET E4.2. CAUTION: IT IS A SAFETY HAZARD AND AN NEC VIOLATION TO HAVE ANY NEUTRAL TO GROUND CONNECTIONS BEYOND THE MAIN ELECTRICAL DISCONNECT MEANS. McDONALD'S GROUNDING STANDARD 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.
- EC SHALL REFER TO "POS ISOLATED GROUND/DEDICATED CIRCUIT DETAIL, SHEET E4.2, FOR REQUIRED WIRING REQUIREMENTS OF COMPUTER PANEL CP."
- METAL RACEWAYS CONTAINING A GROUNDING ELECTRODE CONDUCTOR SHALL BE BONDED AT BOTH ENDS AS REQUIRED BY NEC SECTION 250 REQUIREMENTS.

### TEMPERATURE CONTROLS:

- 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.
- SEE DETAIL ON SHEET M3.0 FOR SENSOR MOUNTING DETAIL. LOCATION OF WALL MOUNTED TEMPERATURE SENSORS ARE SHOWN ON SHEET M1.2 AND E2.0.
- 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:

- 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:

- THE EC SHALL BE RESPONSIBLE FOR BALANCING THE LOADS ON ALL PANELS.
- THE EC SHALL PROVIDE ELECTRICAL SERVICE TO THE EQUIPMENT MOUNTED BREAKER PANEL. SEE ELECTRICAL ROUGH-IN PLAN AND SCHEDULE FOR ALL REQUIREMENTS.
- THE EC SHALL BE RESPONSIBLE FOR THE PROPER IDENTIFICATION AND LABELING OF ALL CIRCUIT BREAKERS. EACH PANEL SHALL BE PROVIDED WITH AN ACCURATE TYPEWRITTEN CIRCUIT DIRECTORY AT THE CONCLUSION OF THE PROJECT AND PRIOR TO RESTAURANT OPENING.

### SECURITY AND DRIVE-THRU CAMERAS:

- EC TO PROVIDE ELECTRICAL POWER AND COMMUNICATION CONDUITS FOR BUILDING MOUNTED SECURITY AND DRIVE THRU CAMERAS. COORDINATE FINAL LOCATIONS WITH SECURITY AND DRIVE THRU CAMERA INSTALLERS.

### LIGHTING:

- PROVIDE A WEATHERPROOF JUNCTION BOX IN PARAPET FOR FASCIA SIGN. FINAL CONNECTION BY OTHERS.
- COORDINATE THE LOCATION OF JUNCTION BOX (IN THE WALL) WITH THE OPENING IN TRELLIS (FOR THE LIGHT FIXTURE WIRES). THE LOCATION OF THE JUNCTION BOX AND THE OPENING IN THE TRELLIS SHALL BE ALIGNED FOR THE LIGHT FIXTURE TO BE INSTALLED PROPERLY. COORDINATE INSTALLATION OF JUNCTION BOX AND ANY NECESSARY OPENINGS IN TRELLIS WITH GC AND TRELLIS/CANOPY MANUFACTURER. SEE LIGHT FIXTURE INSTALLATION INSTRUCTIONS FOR REQUIREMENTS REGARDING MOUNTING BRACKETS FOR USE IN C-CHANNEL TRELLISES.
- EC SHALL FIELD VERIFY THAT LIGHT FIXTURES DO NOT OBSTRUCT OR CONFLICT WITH THE WORK OF OTHER TRADES. IF A DISCREPANCY IS FOUND, THE EC SHALL IMMEDIATELY NOTIFY THE GC BEFORE THE INSTALLATION OF SUCH FIXTURE(S). EC SHALL COORDINATE LOCATIONS OF ALL LIGHT FIXTURES IN DINING AREA WITH FINAL SEATING AND DECOR PLANS.
- IF PC-POS CASH REGISTER SYSTEM IS INSTALLED, EC SHALL RELOCATE FIXTURES ABOVE FRONT COUNTER TO AVOID GLARE ON THE CASH REGISTER SCREENS. EC SHALL INSTALL CABLE WHIP TO FIXTURES SO THAT FIXTURE MAY BE RELOCATED FOUR FEET WITHOUT DISCONNECTING CABLE WHIP.
- EC SHALL COORDINATE LOCATION OF ALL EXTERIOR LIGHTS TO AVOID INTERFERENCE WITH ANY CORBELS, TRUSSES, BEAMS OR OTHER SPECIAL EXTERIOR TREATMENTS. INSTALL LIGHT FIXTURES WITH CORRECT ORIENTATION PER MANUFACTURER'S INSTRUCTIONS.
- THE USE OF INTERLOCK TYPE "MC" CABLE IN LENGTHS OF 6 FEET OR LESS (WHERE PERMITTED BY LOCAL CODES) SHALL BE ALLOWED FOR WIRING TO INTERIOR LIGHTING FIXTURES. "ROMEX" OR "BX" SHALL NOT BE USED.
- EC SHALL VERIFY THAT NOT MORE THAN 3% VOLTAGE DROP EXISTS FROM THE LIGHTING PANEL TO ANY EXTERIOR LIGHTING FIXTURE OR SIGN/BALE.
- WHERE McDONALD'S RESTAURANT HAS A PLAYPLACE, THE EC SHALL COORDINATE EXACT LOCATION OF PLAYPLACE LIGHTING WITH PLAYPLACE TOY VENDOR FOR MAXIMUM ILLUMINATION AND SAFETY PER THE FINAL LOCATION OF THE PLAYPLACE TOY. LIGHTING FIXTURES SHALL NOT BE MOUNTED TO THE TOY OR ANY PART OF THE TOY STRUCTURE.
- EC SHALL VERIFY ALL TAP SETTINGS FOR H.I.D. LIGHTING FIXTURES AND MAKE ANY NECESSARY CORRECTIONS PRIOR TO INSTALLATION.

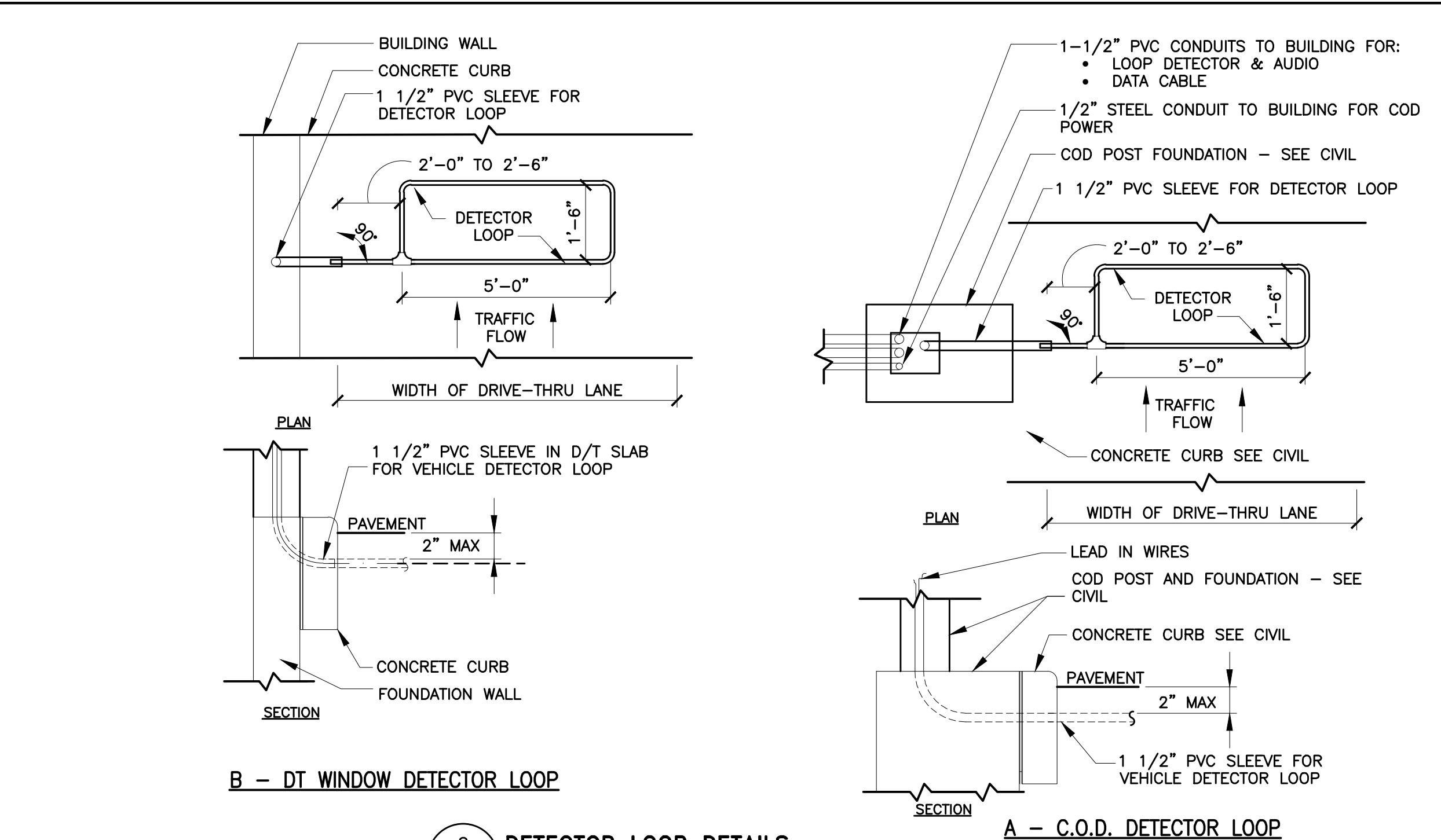
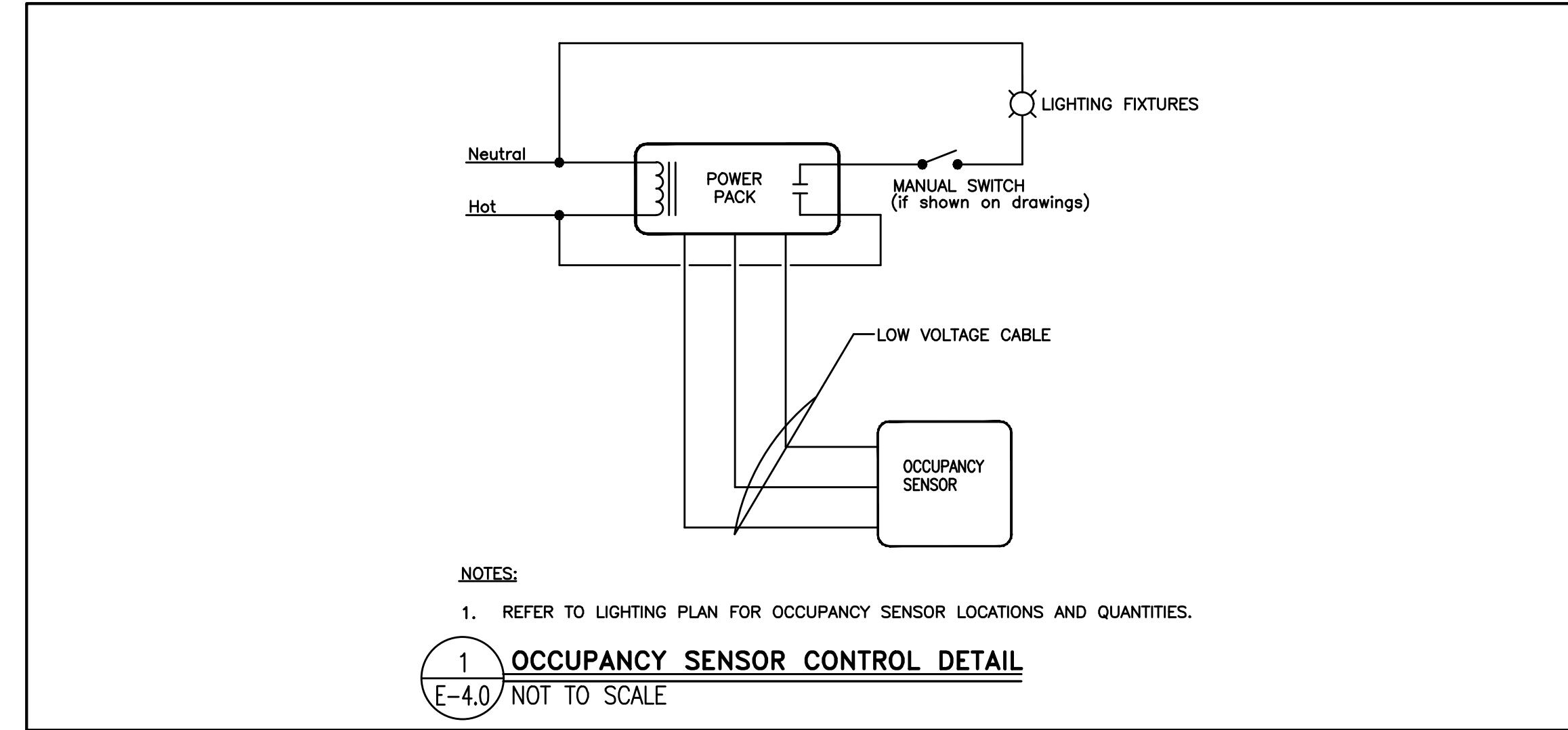
**McDonald's USA, LLC**

PREPARED BY: **M** MRL DATE: 12/03/2019

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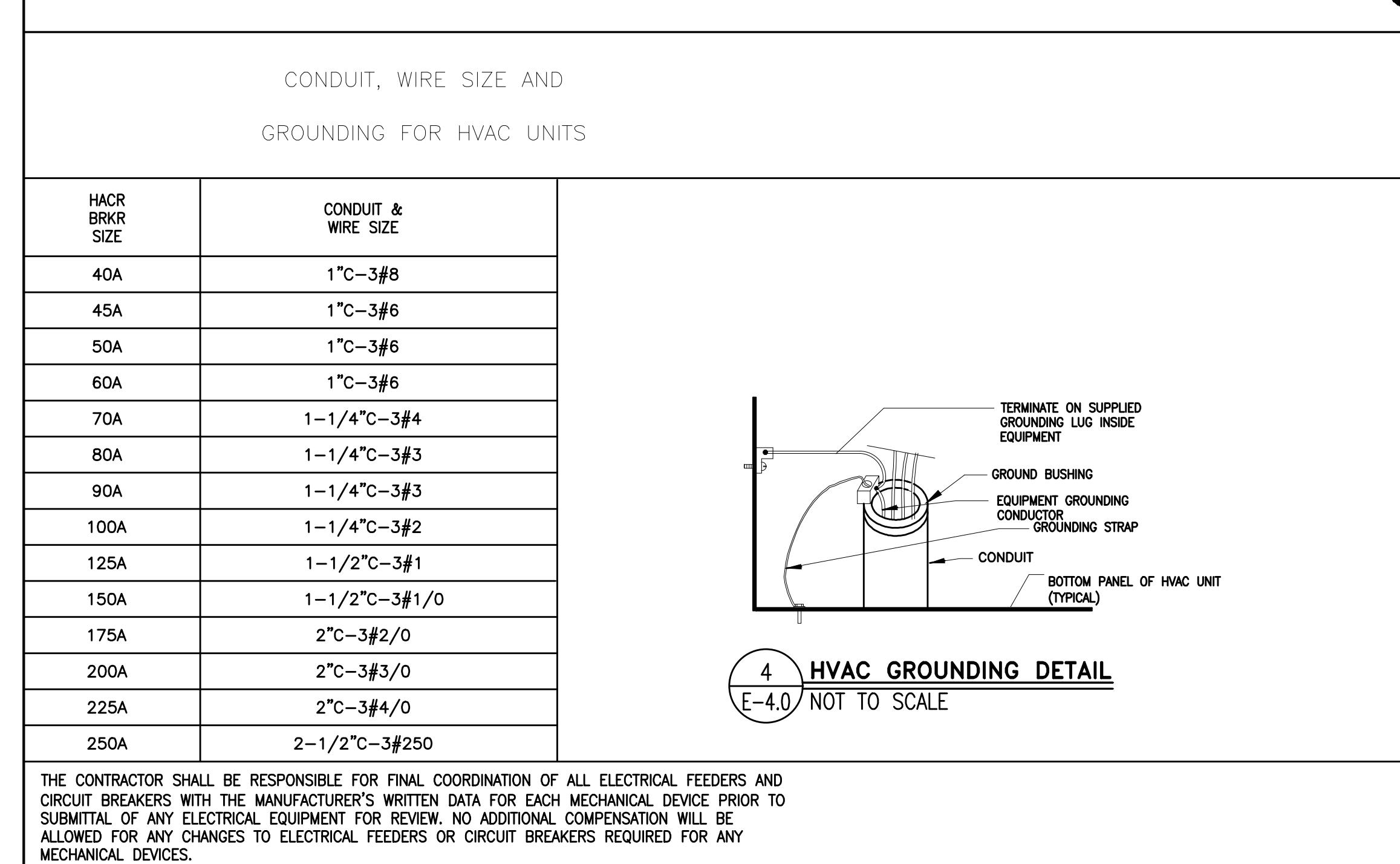
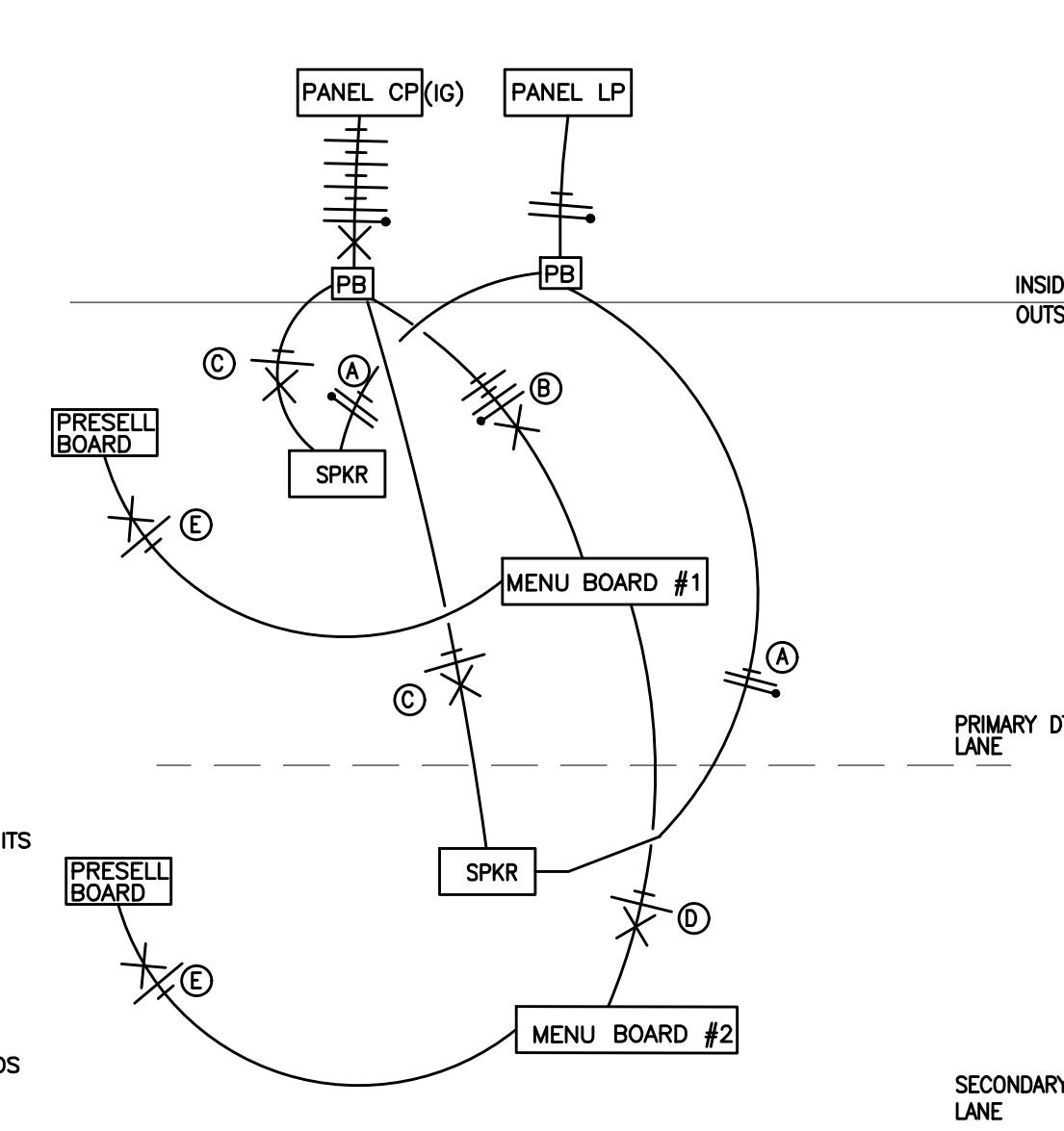
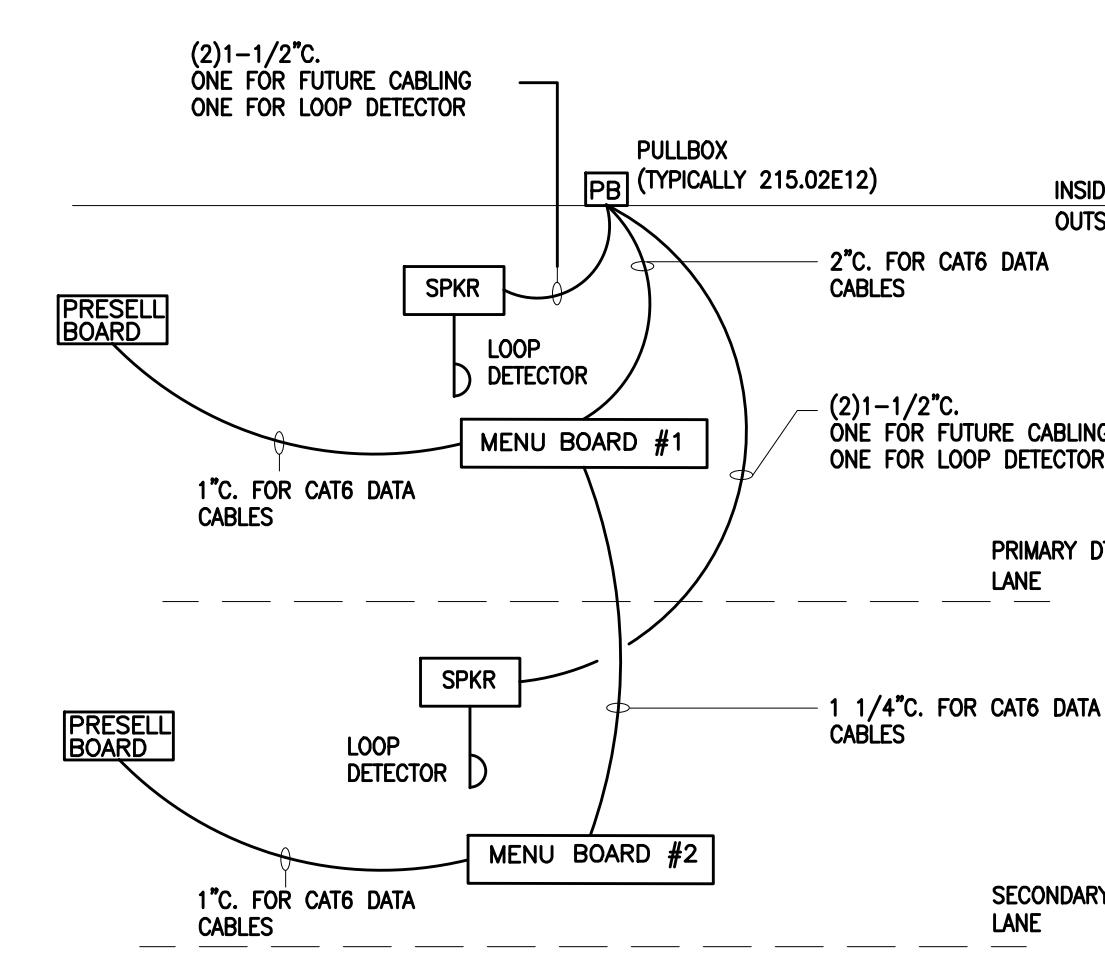
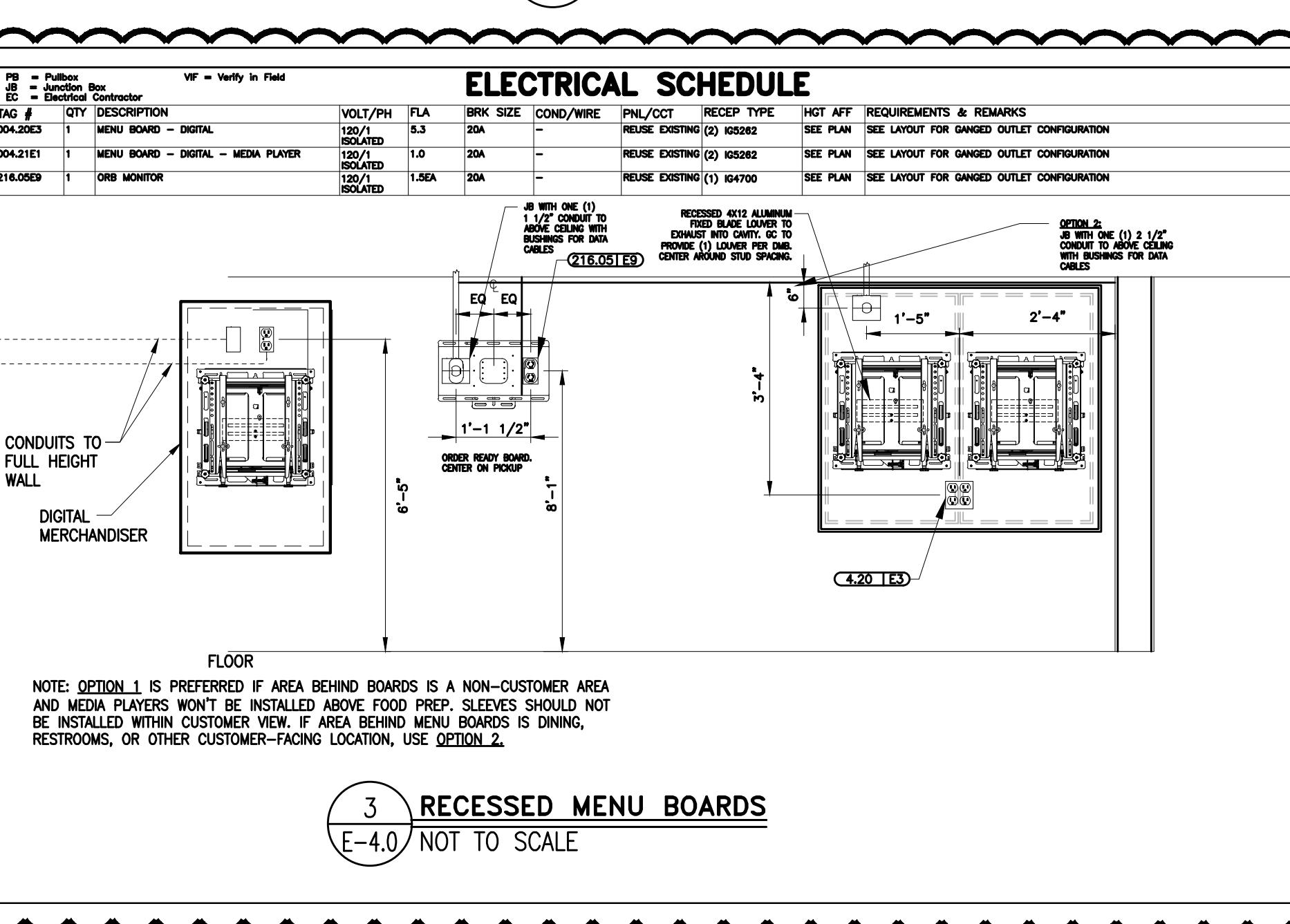
TITLE		2019 STANDARD BUILDING - BB20	STD ISSUE DATE	2019-11	REVIEWED BY	WLW
DESCRIPTION		4597F10-WOOD/WOOD	DATE ISSUED	01-23-20	Site Address	605 South 7th Street, Kansas City, KS
SHEET NO.	015-0071.00.B				REV.	1975
E 3.1		NOTES & DETAILS				





NOTES

1. VERIFY CONDUIT SIZES AND LAYOUT WITH DETECTOR LOOP MANUFACTURER.
2. CENTER VEHICLE DETECTOR LOOP (ITEM # 217.11E1) IN DRIVE THRU LANE. INSTALL PER MFR. RECOMMENDATIONS.
3. SEE CIVIL FOR DIMENSIONS OF DRIVE-THRU LANE CONCRETE PAD FOR DETECTOR LOOP.
4. NO STEEL (REBAR OR ELECTRICAL WIRE) SHALL BE USED WITHIN 2' OF LOOP.
5. DETECTOR LOOP MANUFACTURERS:  
DETECTOR LOOPS MAY BE BY ONE OF THE FOLLOWINGS COMPANIES OR EQUAL.  
3M: 1-800-328-0033  
HME: 1-800-848-4468
6. DETECTOR LOOP MATERIAL:  
PVC TUBING 1/2" I.D. 100 PSI LOOP MADE FROM ONE LENGTH OF THIN FOURTEEN GAUGE STRANDED WIRE. LEAD-IN IS PRE-TWISTED AT FACTORY.
7. DETECTOR LOOP CONSTRUCTION:  
FORMED WITH ONE CONTINUOUS LENGTH OF PVC WITH NO SHARP CORNERS AS DETAILED. WIRE LOOPED, FORMED, & PIGTAILED AS DETAILED.





WATTS			PANEL AP-1						225A, 208Y/120 VAC, 3PH, 4W, CB TYP		
A	B	C	DESCRIPTION	REQ	PLS	CCT	CCT	TRIP	BRKR	DESCRIPTION	A
1632			DCO - General Purpose	G	20A-1	1	2	20A-2	G	Coffee brewer (presenter's booth)	1612
720			DCO - General Purpose	G	20A-1	3	4	I	I	I	
	1200		DCO - General Purpose	G	20A-1	5	6	20A-1	G	ABS (phase c, presenter's booth)	
120			Safe - (mo) DCO Gen Purp	L	20A-1	7	8	20A-1	G	OJ dispenser/Coffee Cream Disp	1668
240			Remote Order Battery	G	20A-1	9	10	20A-1	G	DCO - General Purpose	
	1140		Merge/audio sys/driv mon(sa)	G	20A-1	11	12	20A-1	G	Automated beverage sys (abs,pb)	
960			Washer	G	15A-1	13	14	20A-2	G	Coffee Brewer (front counter)	1612
1800			Hand held Order	G	20A-1	15	16	I	I	I	
	120		Computer Room (TF/1)		20A-1	17	18	30A-3	G	Heat treat combo shake (frnt cntr)	
2246			Espresso Brewer	G	30A-2	19	20	I	I	I	1560
2246			I	I	I	21	22	I	I	I	
	1500		3-Vat fryer exhst hd interlock	G	20A-1	23	24	20A-1	G	3-Vat fryer exhst hd interlock	
1200			Reach in Freezer-SW	G	20A-1	25	26	20A-2	H	Ice Machine Remote Condensor	104
1080			Frozen fry dispenser (fry wall)	G	20A-1	27	28	I	I	I	
2112			4-Vat fryer exhst hd interlock	G	20A-1	29	30	20A-1	G	Reach in Freezer-SW	
1884			Fry bagging station 36" (fry wall)	L,G	20A-1	31	32	15A-3	H	Ice Machine Remote Cond	1224
60			Hand Wash Timer	G	20A-1	33	34	I	I	I	
	1200		Reach in Freezer-SW	G	20A-1	35	36	I	I	I	
132			Ice machine - 1000 lb	G	15A-1	37	38	15A-3	H	Ice Machine Remote Cond	1224
132			Ice machine - 1000 lb	G	15A-1	39	40	I	I	I	
	1656		4-Vat fryer exhst hd interlock	G	20A-1	41	42	I	I	I	
									Total Connect	17178	
									Connect Amps		
									Demand Amps		

WATTS			PANEL AP-2						225A, 208Y/120 VAC, 3PH, 4W, CB TYPE		
A	B	C	DESCRIPTION	REQ	PLS	NO.	NO.	PLS	REQ	DESCRIPTION	A
1536			Ice machine 1400LB	H	20A-3	1	2	20A-1	G	Refrigerator - Single Wide	684
1536				I	I	I	3	4	20A-1	Janitor EF	
	1536			I	I	I	5	6	20A-1	G DCO - General Purpose	
624			Soda tower-cold plate(self serv)	G	20A-1	7	8	20A-1		Spare	
180			Janitor's closet	G	20A-1	9	10	20A-2	H	Trash Compactor	
			Spare	L	20A-1	11	12	I	I	I	
1848			Hot Water Dispenser	G	20A-1	13	14	20A-1	G	Walk in cooler / freezer	1200
864			Bulk oil system (sup area)	G	20A-1	15	16	20A-1	G	Walk in cooler / freezer	
	1668		Clm gril exhaust hd interlock	G	20A-1	17	18	20A-2	G	Q'ing oven - P& S	
840			Meat freezer	G	20A-1	19	20	I	I	I	1550
120			Clean in place panel	G	20A-1	21	22	20A-1	G	Specialty Coffee Refrigerator	
	490		Reverse Osmosis, Filtration	G	20A-1	23	24	20A-1	G	Compressed Air System	
180			DCO in Trash Corral	G	20A-1	25	26	20A-1	G	Refrig-wt-48"	600
1200			Bulk oil sys - support area (sa)	G	20A-1	27	28	20A-2	G	Q'ing oven - P & S	
	1032		BIC Machine	G	20A-1	29	30	I	I	I	
684			Refrigerator - Single Wide	G	20A-1	31	32	20A-2	G	Iced Tea Brewer	1352
120			Recirc pump	G	20A-1	33	34	I	I	I	
	1632		Soda syst pack (support area)	G	20A-1	35	36	20A-1	G	DCO - General Purpose	
3120			Soda syst pack (support area)	G	30A-3	37	38	20A-1		BAS Controller	360
3120				I	I	I	39	40	20A-1	Spare	
	3120			I	I	I	41	42	20A-1	G DCO - gen purpose	
										Total Connect	14578
										Connect Amps	
										Demand Amps	

WATTS			PANEL AP-3						225A, 208Y/120 VAC, 3PH, 4W, CB TYPE			
A	B	C	DESCRIPTION		REQ	PLS	CCT	CCT	TRIP-	BRKR		
600			Baked Goods Display Case		15A-1	1	2	50A-3	G	3 - Vat LOV Fryer - Elec. - F/F/F	4668	
			Universal Radiant Toaster		G	30A-2	3	4	I	I		
	2621				I	I	I	5	6	I		
1140			Hand Dryer		L,G	20A-1	7	8	50A-3	G	3 - Vat LOV Fryer - Elec. - F/F/F	4668
1140			Hand Dryer		L,G	20A-1	9	10	I	I		
	1140		Hand Dryer		L,G	20A-1	11	12	I	I		
1140			Hand Dryer		G	20A-1	13	14	50A-3	G	3 - Vat LOV Fryer - Elec. - F/F/F	4668
360			Refrigerator/freezer 2 drwr		L,G	20A-1	15	16	I	I		
	384		Refrigerator 2 Drawer		G	20A-1	17	18	I	I		
384			Refrigerator 2 Drawer		G	20A-1	19	20	20A-1		Spare	
120			DCO-Satellite Music System			20A-1	21	22	20A-1		Toilet Exhaust Fan	
			Spare			20A-1	23	24	20A-1	G	Roof receptacles	
1368			WareWasher		G	20A-1	25	26	20A-2	G	Coffee Brewer (Glass Decanter)	1612
1656			Bulk Oil System		G	20A-1	27	28	I	I		
	120		D.T. Window Power			15A-1	29	30	20A-1		Clg. Mt window recepts	
4000			Unit AC-1			50A-2	31	32	50A-2		Unit AC-2	4000
4000			I			I	33	34	I	I		
	1200		Unit AC-3			20A-1	35	36	20A-1	G	Spare	
1200			Unit AC-4			20A-1	37	38	20A-1	G	Prep Table	840
660			Unit AC-5			20A-1	39	40	20A-1	G	Wall MT freezer SW	
	120		D.T. Window Power			20A-1	41	42	20A-1		D.T. Window Power	
			* If a prince castle toaster is used, EC to coordinate correct circuit with KES supplied cordset.						Total Connect	30288		
									Connect Amps			

MLO, AIC: NOTES D6,D7,&D8, Mounting: MDP, NEMA 1			PANEL AP-4						225A, 208Y/120 VAC, 3PH, 4W, CB TYP			
WATTS			BRKR	TRP	CCT	CCT	TRIP-	BRKR				
A	B	C	DESCRIPTION	REQ	PLS	NO.	NO.	PLS	REQ	DESCRIPTION	A	
2604			3 - Platen Clamshell Grill	G	50A-3	1	2	50A-3	G	3 - Platen Clamshell Grill	2604	
2604				I	I	I	3	4	I	I		
	2604			I	I	I	5	6	I	I		
5196			3 - Platen Clamshell Grill	G	50A-3	7	8	50A-3	G	3 - Platen Clamshell Grill	5196	
5196				I	I	I	9	10	I	I		
	5196					11	12	I	I	I		
1602			Q'ing oven - P & S	G	20A-2	13	14	15A-1	G	Ventless Hood Combi	960	
1602				I	I	I	15	16	15A-1	G	Ventless Hood Combi	
	2080		Frozen Beverage Dispenser	G	30A-2	17	18	20A-1	G	Finishing Station		
2080				I	I	I	19	20	30A-3	G	Combi Oven	1047
180			McDelivery Center		20A-1	21	22	I	I	I		
					20A-1	23	24	I	I	I		
					20A-1	25	26	30A-3	G	Combi Oven	1047	
			Space			27	28	I	I	I		
			Space			29	30	I	I	I		
			Space			31	32	20A-1		Spare		
			Space			33	34	20A-1		Spare		
			Space			35	36	20A-1		Spare		
			Space			37	38	20A-1	G	Spare		
			Space			39	40	20A-1		Spare		
			Space			41	42	20A-1		Spare		
									Total Connect	22335		
									Connect Amps			

SEE SHEET E3.1 FOR GENERAL  
ELECTRICAL NOTES

# ELECTRIC UTILITIES CALC

**BREAKER MODIFICATIONS:**

G - GFCI PERSONNEL PROTECTION (5MA)  
HID - HID & SWD RATED  
L - HANDLE LOCK  
H - HACR RATED  
S - SWITCH DUTY RATED

**TOTAL BUILDING 208Y/120V, 3 PHASE, 4-WIRE GENERAL SERVICE  
POWER BASED ON NEC 220.88 FOR AN "ALL ELECTRIC" NEW**

NEC Optional Method	(kW)	(A)
1. Continuous Loads:	35	96
2. Kitchen Loads:	294	817
3. HVAC Loads:	189	526
4. Cooling:	123	341
5. Total (1+2+3+4):	641	1780
6. Base Value (See 220.88):	325	902
7. Amount Over Base Value (5-6):	316	878
8. Demand Factor:	.5	
9. Adjusted Value (8*7):	158	439
10. Adjusted Base Value (220.88):	172.5	479
11. Demand (9+10):	331	<b>918</b>

WATTS			PANEL AP-5						225A, 208Y/120 VAC, 3PH, 4W, CB TYPE: BL or BLH					
A	B	C	DESCRIPTION	REQ	PLS	CCT	CCT	TRIP-	BRKR	DESCRIPTION	A	B	C	
			Spare		20A-1	1	2	20A-1	G	Chilled Rail	192			
1477			Universal Holding Cabinet - 2S	G	20A-2	3	4	20A-1	G	Pie Display		564		
1477							5	6	20A-1	G	Pie Display		564	
1477			Universal Holding Cabinet - 2S	G	20A-2	7	8	50A-3	G	4 - Vat LOV Fryer - Elec. S/S/S	4668			
1477							9	10					4668	
	240		UHC Table Hub and Spoke	G	20A-1	11	12						4668	
			Spare		20A-1	13	14	50A-3	G	4 - Vat LOV Fryer - Elec. S/S/S	4668			
1477			Universal Holding Cabinet - 2S	G	20A-2	15	16					4668		
1477							17	18					4668	
			Spare		20A-1	19	20	50A-3	G	4 - Vat LOV Fryer - Elec. S/S/S	4668			
			Spare		20A-1	21	22					4668		
			Space			23	24						4668	
			Space			25	26	50A-3	G	4 - Vat LOV Fryer - Elec. S/S/S	4668			
			Space			27	28					4668		
			Space			29	30						4668	
			Space			31	32	20A-1		Spare				
			Space			33	34	20A-1		Spare				
			Space			35	36	20A-1		Spare				
			Space			37	38			Space				
			Space			39	40			Space				
			Space			41	42			Space				
										Total Connect	20341	23666	22430	
										Connect Amps		185	Amps	
										Demand Amps		120	Amps	

MLO, AIC: NOTES D6,D7,&D8, Mounting: flush, NEMA 1			PANEL LP-1					225A, 208Y/120 VAC, 3PH, 4W, CB TYPE: BL or BLH						
WATTS			BRKR	TRIP	CCT	CCT	TRIP	BRKR	DESCRIPTION			WATTS		
A	B	C	REQ	POLES	NO.	NO.	POLES	REQ	A	B	C	A	B	C
		Spare		20A-1	1	2	20A-1	S	Flag Pole	220				
		Spare		20A-1	3	4	20A-1		Spare					
		Spare		20A-1	5	6	20A-1	S	Front Signage			294		
100		Trash Corral Lighting	S	20A-1	7	8	20A-1		Spare					
	294	Back, DT & Non DT Signage	S	20A-1	9	10	20A-1	S	Exterior Wall/Soffit Lights	114				
	193	Flood Lights & Canopy lights	S	20A-1	11	12	20A-1	S	Exterior Wall/Soffit Lights		.	132		
		Spare		20A-1	13	14	20A-1		DCO In Road Sign Base	180				
86		Linear LED Façade Lighting	S	20A-1	15	16	20A-1	S,L	Security Ltg\Dr Alarm\CO2		524			
		Spare	S	20A-1	17	18	30A-2		Lot Lights			480		
96		Directional Sign	S	20A-1	19	20	I	I		480				
96		Directional Sign	S	20A-1	21	22	30A-2		Lot Lights			240		
	120	COD Lighting	S	20A-1	23	24	I	I				240		
		Spare		20A-1	25	26	30A-2		Lot Lights	480				
30		Toy Display	S	20A-1	27	28	I	I				480		
	232	Dining Area Lighting	S	20A-1	29	30	30A-2		Spare					
180		Dining Area Lighting	S	20A-1	31	32	I	I						
		Spare	S	15A-1	33	34	20A-1		Spare					
	596	Kitchen Lighting	S	20A-1	35	36	20A-1		Spare					
108		Restroom Lighting	S	20A-1	37	38	20A-1	S,L	Night/Ltg./Emerg. LED Lighting	179				
	368	Support Area Lighting	S	20A-1	39	40	30A-2	S	Mcd'S Road Sign			2496		
	460	Night/Exit/Emerg. Ltg.	S,L	20A-1	41	42	I	I	Total Connect	2023	4728	5243		
									Connect Amps		33	Amps		
									Demand Amps		42	Amps		

WATTS			COMPUTER PANEL						100A, 208Y/120 VAC, 3PH, 4W, CB TYPE: BL OR BLH				
A	B	C	DESCRIPTION	REQ	PLS	CCT	CCT	TRIP-	BRKR	DESCRIPTION	A	B	C
1236			POS/Reg/Mon/Printer	L	20A-1	1	2	20A-1	L	Wayport/Pos video monitor	180		
	1764		Pos -Kvs Mon./Rec Pntr/Video Monitor	L	20A-1	3	4	20A-1	L	Pos & ORB monitor,scanner / Rec Printer/Table locator		1056	
	100		CCTV/Timer		20A-1	5	6	20A-1	L	Menu Board-Digital			864
390			Coin Disp/POS-Hrdwr/timer/Vid	L	20A-1	7	8	20A-1	L	Pos-Pc Pres. Booth /Video Mon.	300		
	180		POS- Video Monitor		20A-1	9	10	20A-1		LCD Televisions		720	
	600		Technonlogy rack	L	20A-1	11	12	20A-1	L	Tech. rack/Pos Frt Counter			360
180			McCafe Menu Board		20A-1	13	14	20A-1	L	COD #1, POS optical isolator	120		
	1200		Tech rack	L	20A-1	15	16	20A-1	L	Pos Crew Room/Cashless Train		1800	
	1440		Tech rack	L	20A-1	17	18	20A-1	L	COD #2			120
1080			Pos PC front counter	L	20A-1	19	20	20A-1	L	Office desk	1200		
	312		Table Locator System	L	20A-1	21	22	20A-1	L	Office desk		1200	
	60		Time Clock	L	20A-1	23	24	20A-1	L	Crew Video			360
1860			Exterior Menu Board	L	20A-1	25	26	20A-1	L	POS video monitor	300		
	1860		Exterior Menu Board	L	20A-1	27	28	20A-1	L	Kiosks		672	
	260		ZOOM Timer	L	20A-1	29	30	20A-1	L	Kiosks			672
			Spare	L	20A-1	31	32	20A-1	L	Spare			
			Spare	L	20A-1	33	34	20A-1	L	Spare			
			Spare	L	20A-1	35	36	20A-1	L	Spare			
			Spare	L	20A-1	37	38	20A-1	L	Spare			
			Spare	L	20A-1	39	40	20A-1	L	Spare			
			Spare	L	20A-1	41	42	20A-1	L	Spare			
										Total Connect	6846	10764	4936
										Connect Amps	63	Amps	
										Demand Amps	63	Amps	

1000A MCB, NOTES D6, D7, & D8, Mounting: Free Standing, NEMA 1				PANEL MDP						208Y/120 VAC, 3PH, 4W							
WATTS				BRKR		TRP	CCT	CCT	TRP	BRKR					WATTS		
A	B	C	DESCRIPTION	REQ	REQ	PLS	NO.	NO.	PLS	REQ	TYPE	DESCRIPTION	A	B	C		
2023	4728	5243	Lighting Panel 1; LP-1			225A-3	1	2	225A-3			Appliance Panel; AP-1	17178	14064	17700		
14578	14306	18433	Appliance Panel; AP-2			225A-3	3	4	225A-3	SHT		Appliance Panel; AP-3	30288	29016	20969		
7405	6529	5897	KEC Breaker Panel			125A-3	5	6	100A-3	L		CP Panel	6846	10764	4936		
17520	17520	17520	*Roof Top Unit 1	H	175A-3	7	8	225A-3	H		*Roof Top Unit 3	24120	24120	24120			
20341	23666	22430	Appliance Panel; AP-5	SHT		225A-3	9	10	225A-3	SHT		Appliance Panel; AP-4	22335	20435	20734		
4920	4920	4920	Remote Condensing Unit			50A-3	11	12	50A-3	H		*Roof top unit 2	5880	5880	5880		
			Space				13	14	200A-3			Water Heater	18000	18000	18000		
			Space				15	16				Space					
			Space				17	18				SPD					
			Space				19	20				SPD					
* SEE ELECT SHTS FOR CONDUIT AND WIRE SIZE										Total Connect		191434	193949	186781			

## DISTRIBUTION EQUIPMENT NOTES:

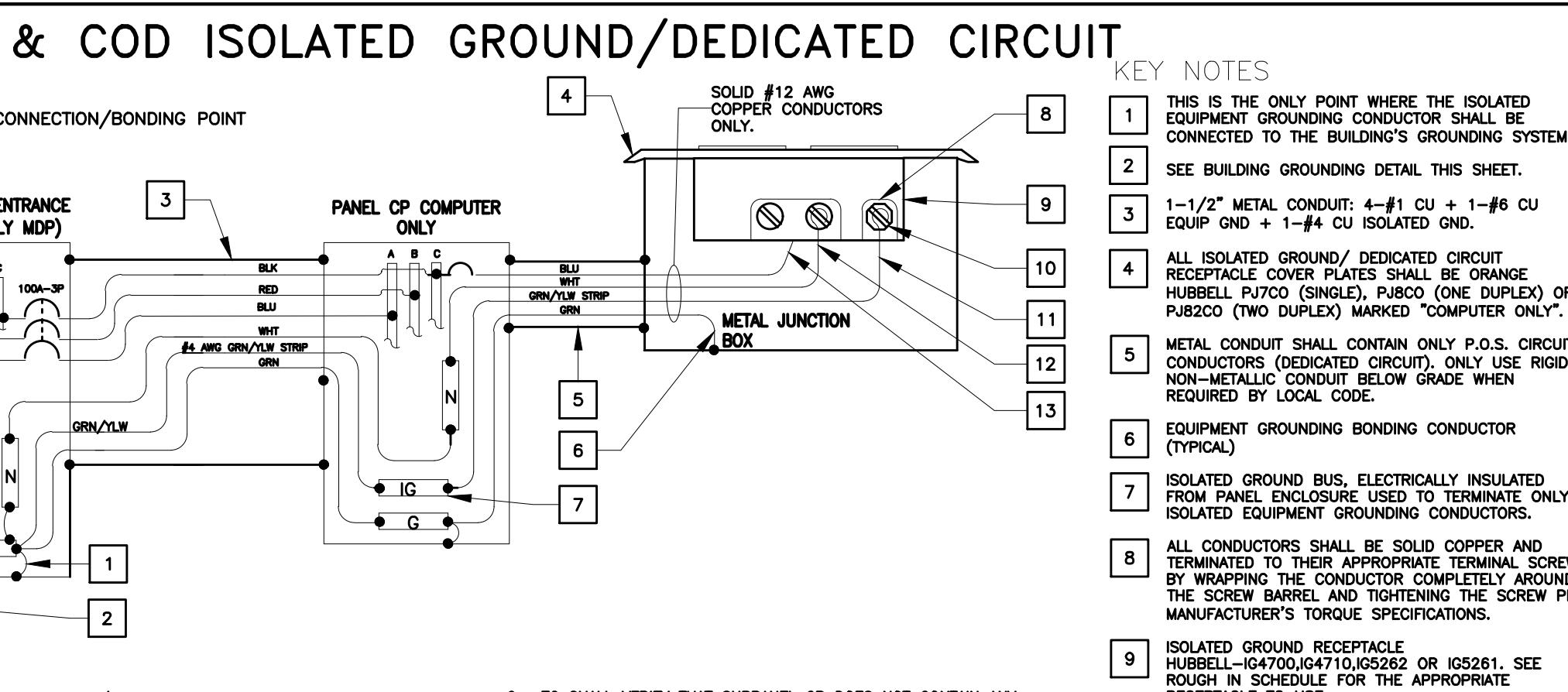
- ALL ELECTRICAL MATERIAL USED ON THIS PROJECT SHALL BE "UL" LISTED AND LABELED.

THE EC/GC/AREA CONSTRUCTION MANAGER WHEN ORDERING PANELBOARDS, SHALL DETERMINE THE NUMBER OF SERVICE ENTRANCE CONDUCTORS, SIZE AND MATERIAL TYPE, AND SHALL PROVIDE THIS INFORMATION TO THE PANELBOARD SUPPLIER SO THAT THE APPROPRIATE LUGS CAN BE PROVIDED FROM THE FACTORY.

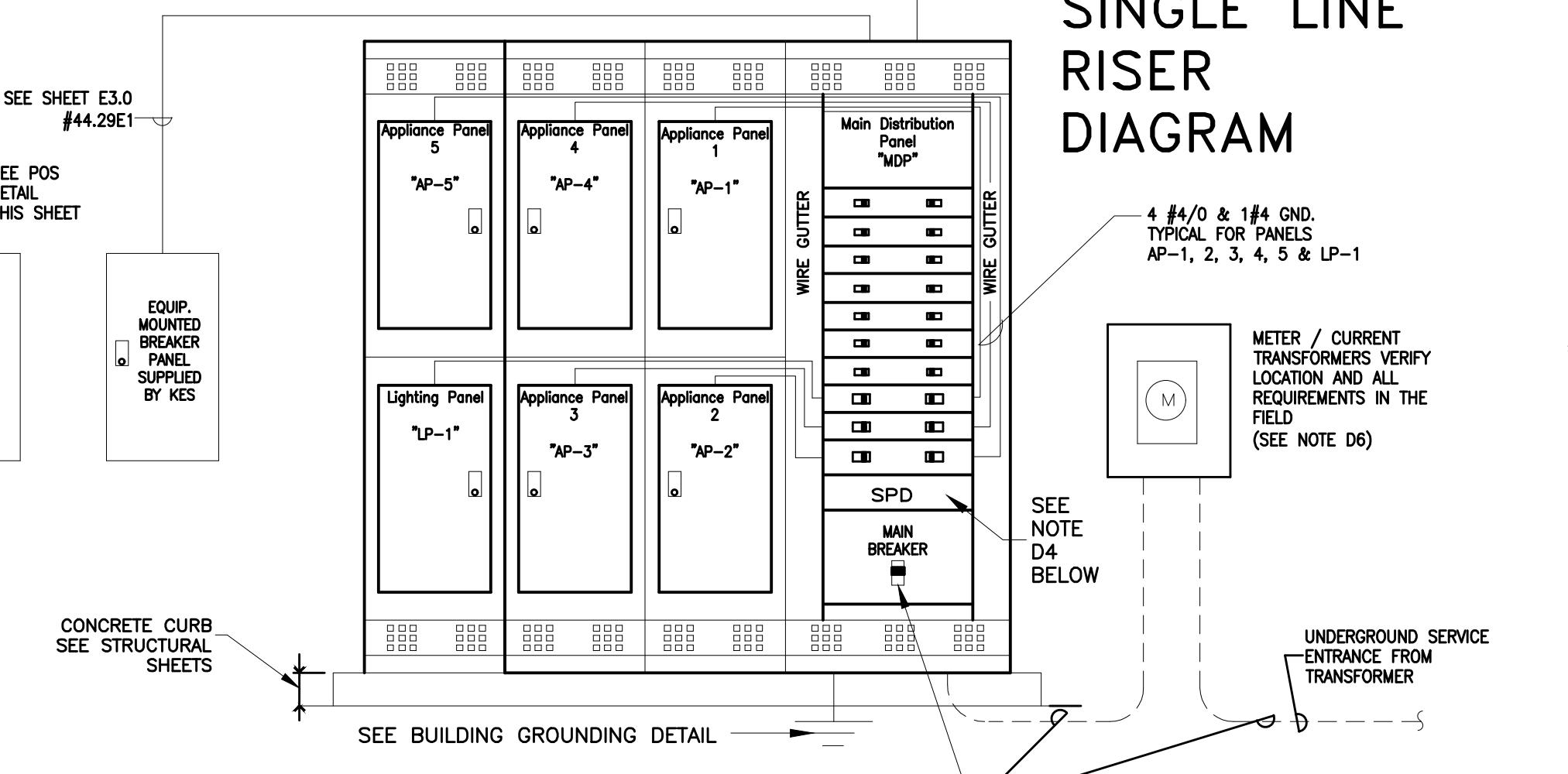
ALUMINUM SERVICE ENTRANCE CONDUCTORS SHALL ONLY BE USED WHEN THEY ARE TERMINATED DIRECTLY TO THE LINE LUGS ON A C/T AND METERING CABINET, THE LINE LUGS OF A FUSIBLE DISCONNECT SWITCH OR TO THE LINE LUGS OF A MAIN LUG ONLY (6 HANDLE RULE) SERVICE ENTRANCE PANEL. ALUMINUM SERVICE ENTRANCE CONDUCTORS SHALL NOT BE TERMINATED TO THE LINE LUGS OF ANY MAIN BREAKER SINCE DOING SO WILL VIOLATE IT'S 100% UL RATING. IF ALUMINUM CONDUCTORS ARE USED AS PREVIOUSLY INDICATED THEY SHALL BE TERMINATED AS FOLLOWS, AND THE WIRE SIZE INCREASED DUE TO LOWER AMPACITY OF ALUMINUM. EXPOSED ALUMINUM CONDUCTOR STRANDS SHALL BE COATED WITH AN ANTI-OXIDANT IMMEDIATELY AFTER INSULATION IS STRIPPED AWAY. A COMPRESSION LUG SHALL BE PROPERLY INSTALLED ONTO THE EXPOSED ALUMINUM CONDUCTOR STRANDS, AND THAT COMPRESSION LUG SHALL THEN BE BOLTED TO THE TRANSFORMER TAPS AND SWITCHBOARD BUSS USING PROPERLY SIZED BOLTS, NUTS AND WASHERS. MERELY INSERTING ALUMINUM STRANDS UNDER A SCREW LUG SHALL NOT BE ACCEPTABLE.

- THE SURGE PROTECTIVE DEVICE (SPD) UNIT SHALL BE AN INTEGRAL UNIT PROVIDED AND INSTALLED BY THE SWITCHBOARD MANUFACTURER. ORDER APPROVED UNITS AS SHOWN IN D5.

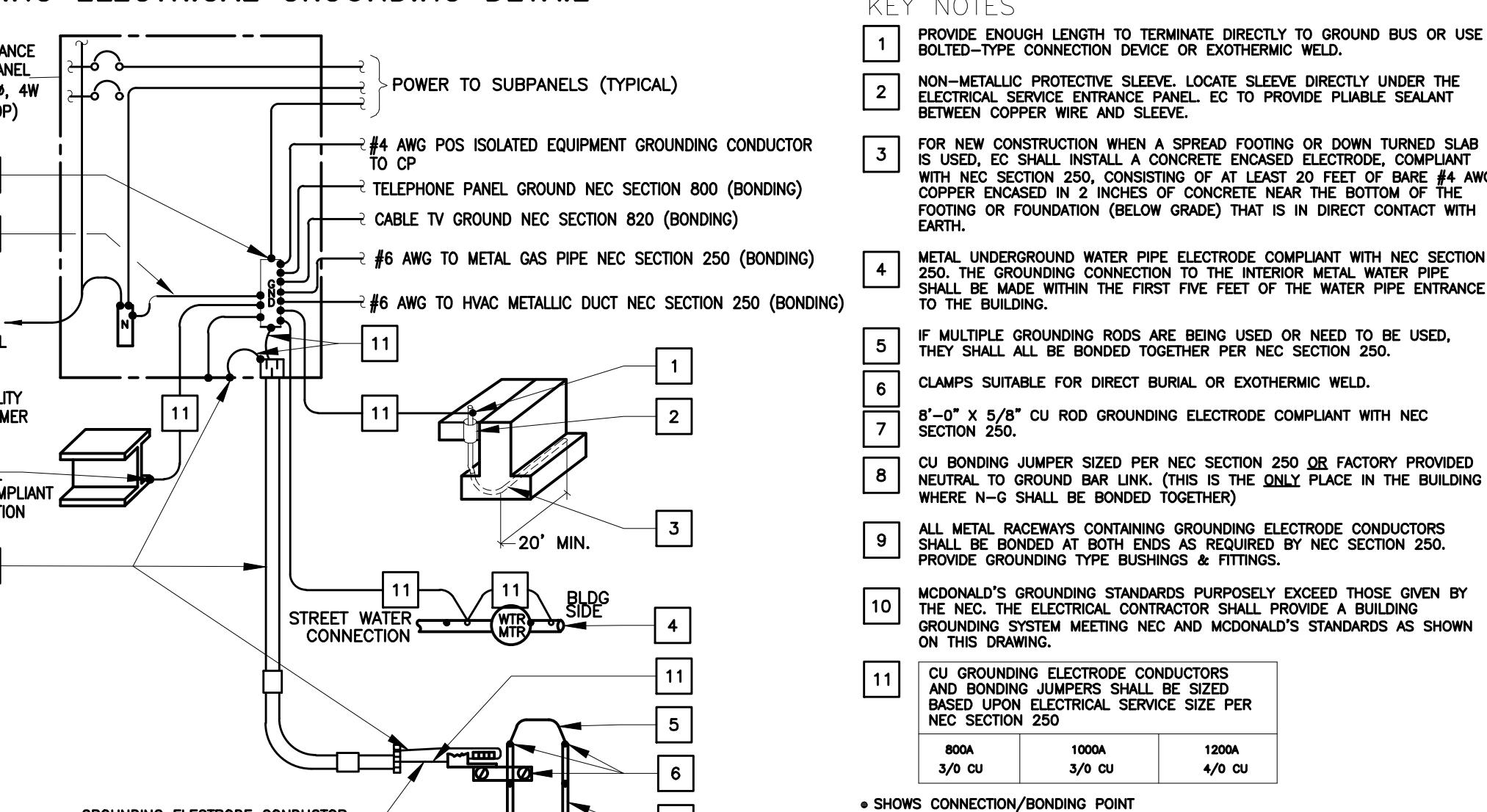
- APPROVED SWITCHBOARDS, PANEL, & SPD SUPPLIER (IN ADDITION TO ORDERING SWITCHBOARD & PANELS ALSO ORDER SPD) SUPPLIERS:



- . EQUIPMENT (COMPUTERS, PRINTERS, MONITORS KVS, HUB & COD) SHALL BE POWERED FROM THE COMPUTER
  - ER COMPUTER/DIGITAL EQUIPMENT SHALL BE POWERED BY PHASE "A" IN THE COMPUTER PANEL.
  - GROUND INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF NEC SECTION 250 .
  - AMP CIRCUIT SHALL HAVE IT'S OWN ISOLATED EQUIPMENT G CONDUCTOR.
  - ROUNDING SYSTEM SHALL COMPLY WITH NEC ARTICLE 250 DONALD's BUILDING GROUNDING DETAIL.
  - VERIFY CORRECT POLARITY AT RECEPTACLE.
  - 6. EC SHALL VERIFY THAT SUBPANEL CP DOES NOT CONTAIN ANY ILLEGAL NEUTRAL TO GROUND BONDS.
  - 7. PANEL CP SHALL ONLY BE USED TO POWER SENSITIVE ELECTRONIC EQUIPMENT, AS OUTLINED IN NOTE #1. IT SHALL NOT BE USED TO POWER ANY OTHER LOADS.
  - 8. IT IS A SAFETY HAZARD AND AN NEC VIOLATION FOR THE POS SYSTEM TO HAVE ITS OWN INDEPENDENT GROUNDING ROD. IF AN INDEPENDENT GROUND ROD IS FOUND FOR THE POS SYSTEM, IT SHALL BE BONDED TO THE BUILDING GROUNDING SYSTEM.



#### ING ELECTRICAL GROUNDING DETAIL



- BOARD SUPPLIER SHALL MARK CLEARLY & LEGIBLY ON THE DOORS OF ALL PANELS.  
S OF ALL PANELS "CAUTION - SERIES RATED SYSTEM \_\_\_\_\_A AVAILABLE. IDENTIFIED  
CEMENT COMPONENTS REQUIRED."

BREAKERS SHALL BE THE BOLT-ON TYPE. ALL CIRCUIT BREAKERS SHALL BE CAPABLE OF  
LOCKED OUT TO COMPLY WITH OSHA REGULATION 1910.147 LOCKOUT/TAGOUT  
PROCEDURES.

C BREAKERS OF 2P AND 3P CONFIGURATION SHALL HAVE A COMMON TRIP.

D CIRCUIT BREAKERS USED TO SWITCH LIGHT FIXTURES SHALL BE APPROVED FOR THE  
USE AND MARKED "SWD".

E CIRCUIT BREAKERS USED FOR HID TYPE FIXTURES SHALL BE HID RATED.

F VAC CIRCUIT BREAKERS SHALL BE HACR TYPE. SEE TABLE ON SHEET E4.0 FOR CONDUIT  
WIRE SIZE REQUIREMENTS.

G BOARD SUPPLIER SHALL PROVIDE ENGRAVED PLASTIC LAMINATED LABELS TO IDENTIFY ALL  
C PANELS. THE LABEL FOR COMPUTER PANEL SHALL READ "COMPUTER ONLY PANEL".

H D15. ALL PANELS SHALL BE PROVIDED WITH A KEY LOCK AND LATCH. EACH PANEL SHALL HAVE  
TWO KEYS WITH ALL PANELS KEYED ALIKE.

I D16. PANELBOARD MANUFACTURER SHALL PROVIDE ARC-FLASH WARNING LABELS FOR MDP AND  
ALL BRANCH PANELBOARDS IN ACCORDANCE WITH NEC110.

J D17. ALL RECEPTACLES IN THE KITCHEN AREA MUST HAVE GROUND FAULT  
CIRCUIT-INTERRUPTER PROTECTION PER NEC 210.8 (B) (2).

K D18. ON PROJECTS RATED 1200 AMPS OR MORE, AND FOLLOWING NEC 2017 OR NEWER,  
ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR DATA COLLECTION INCLUDING BUT NOT  
LIMITED TO UTILITY TRANSFORMER DATA, CABLE LENGTHS, ETC AND COORDINATING WITH  
THE SWITCHBOARD SUPPLIER OR ELECTRICAL ENGINEER SO THAT AN ARC FLASH STUDY  
CAN BE PREFORMED. SUPPLIER SHALL SHARE THE RESULTS OF THE STUDY WITH THE  
ENGINEER OF RECORD SO THAT THE APPROPRIATE ARC ENERGY REDUCTION METHOD  
MEETING THE REQUIREMENTS ON NEC 240.87 CAN BE APPLIED. CONTRACTOR SHALL ALSO  
BE RESPONSIBLE TO AFFIX THE LABELS ON THE DESIGNATED EQUIPMENT PROVIDED BY  
THE SUPPLIER.

emmanuel-nodas

The logo consists of the lowercase letters "ep" in a bold, white, sans-serif font. The letters are slightly slanted and positioned on a solid black rectangular background.

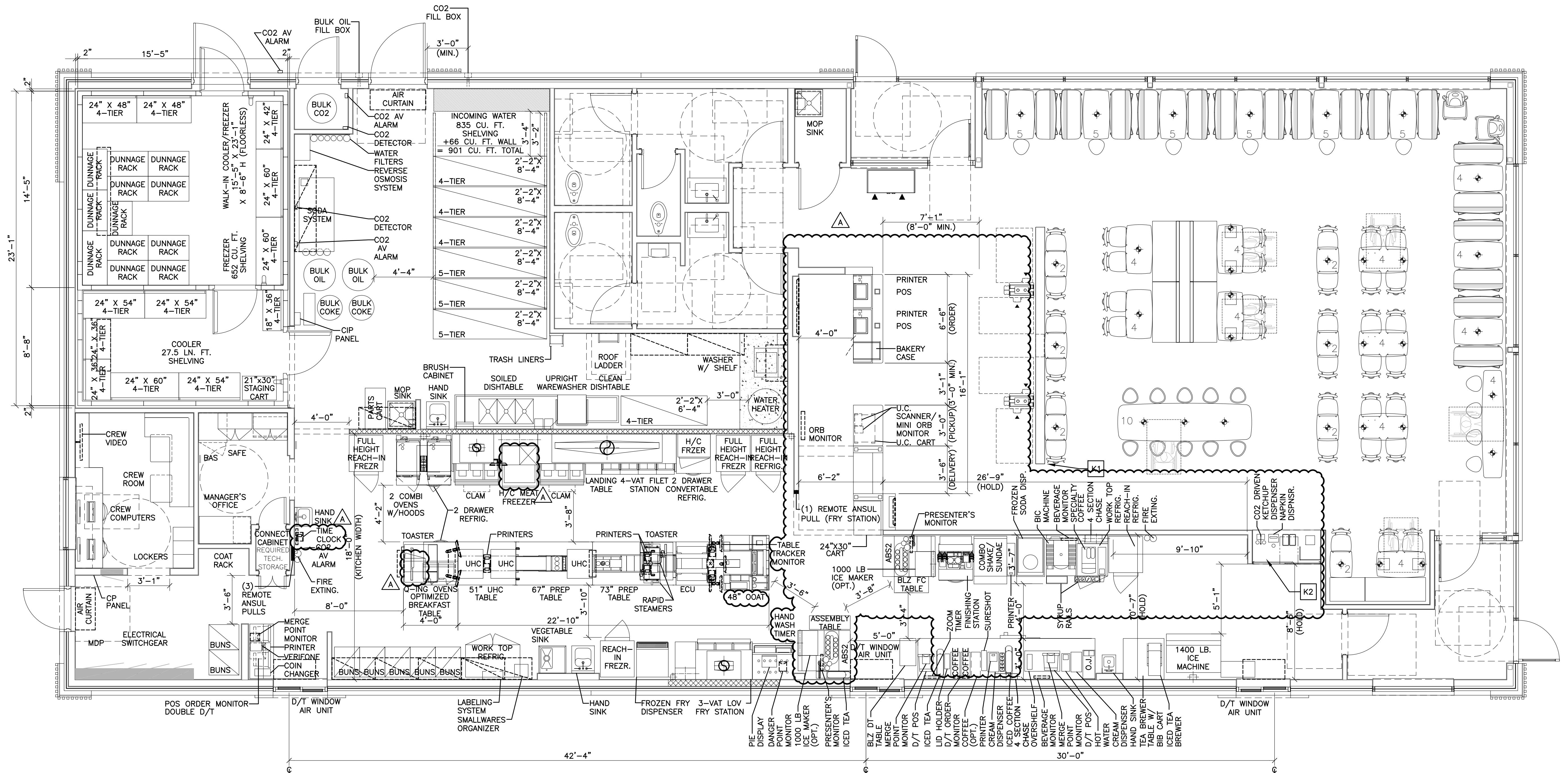
	<b>PREPARED BY:</b> 12/03/20
<b>A, LLC</b>	
<p>Initial and proprietary copied or reproduced ments were prepared s issue date and are ter time. Use of er project requires the ers. Reproduction of ect is not authorized.</p>	

**REFEREED FOR:**

# McDonald's USA

PF	DRAWN BY <b>MRL</b>	STD ISSUE DATE <b>2019_11</b>	REVIEWED BY <b>WLW</b>	DATE ISSUED <b>01-23-20</b>
— BB20	NG & Ci	/BRCK EXT. FINISH	CITY, KS <b>RD#19175</b>	

SHEET NO.	E 4.2	
	015-0071.00.B	
TITLE	2019 STANDARD BUILDING 4597F10-WOOD/WOOD	DESCRIPTION
SITE ID	015-0071	SITE ADDRESS 605 SOUTH 7TH STREET, KANSAS



# KITCHEN COVER SHEET

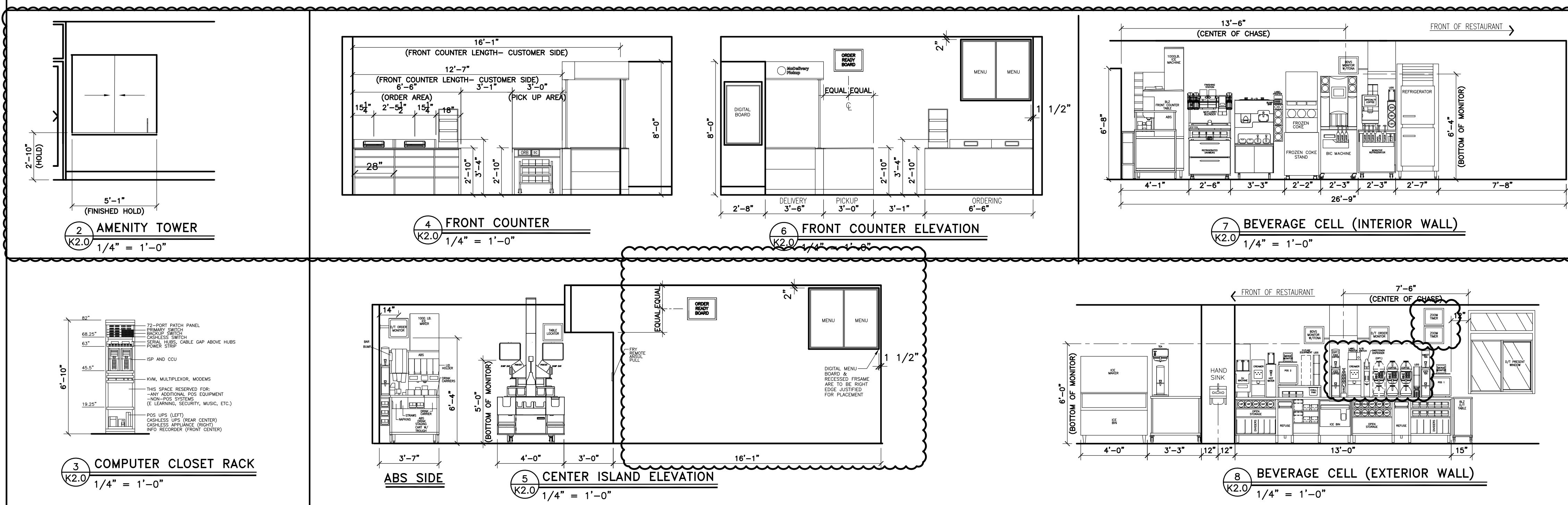
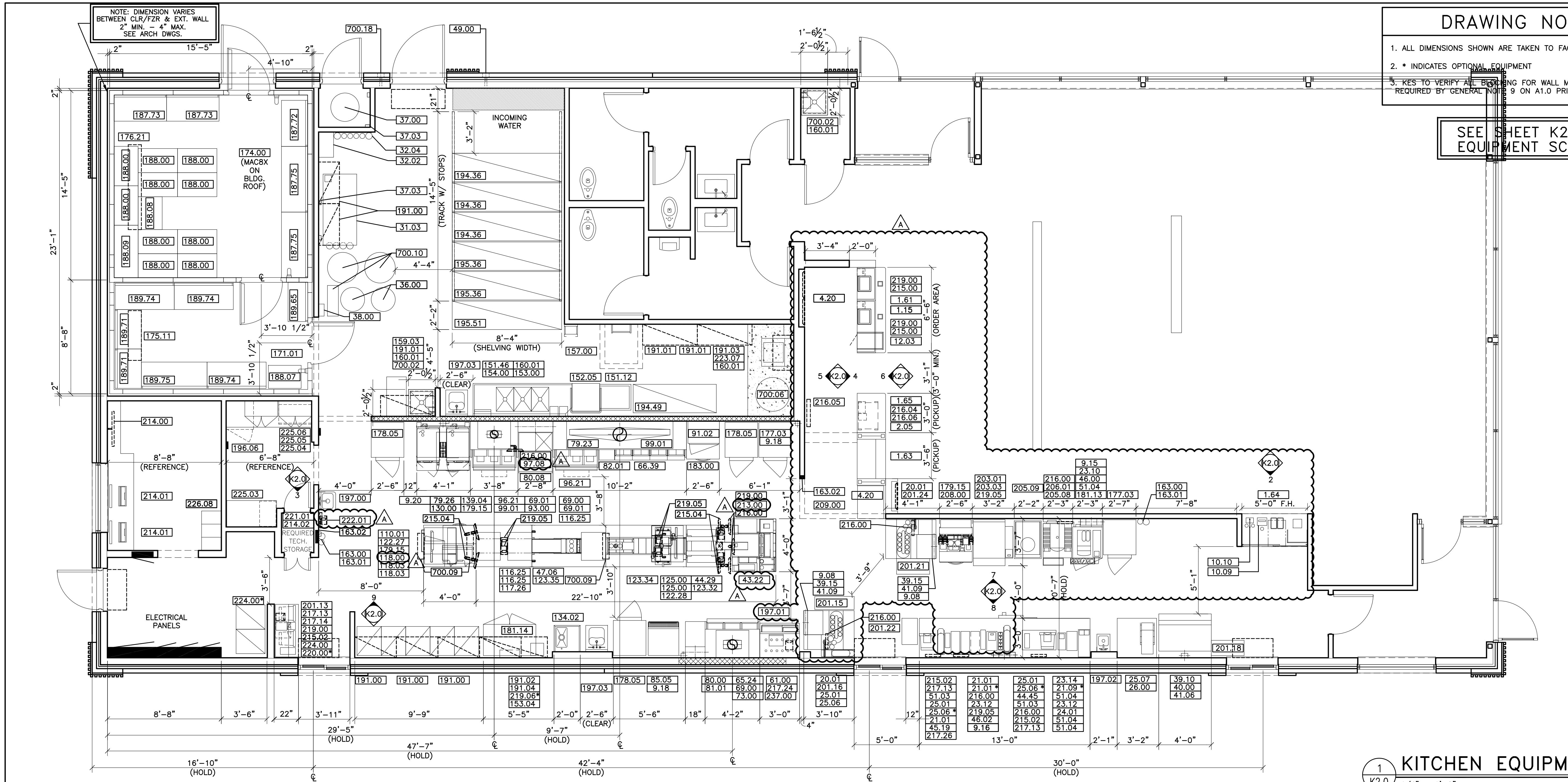
K10 1/4" = 1,0

## KEYED NOTES

**K1** SEATING AND KIOSKS MUST BE 5'-0" CLEAR FROM BEVERAGE CELL WALL

**K2 KES TO ENSURE AMENITY TOWER EQUIPMENT PLACEMENT MEETS ADA REQUIREMENTS**

SHEET NO.	TITLE	PREPARED FOR:			PREPARED BY:		
	2019 STANDARD BUILDING – BB20 4597-WOOD/WOOD	DRAWN BY RH	STD ISSUE DATE 2019_11	REVIEWED BY RH	DATE ISSUED 11 15 2019	SITE ID 015-0071.00.C	SITE ADDRESS 605 South 7th St. Kansas City, KS
K1.0	KITCHEN COVER SHT	DESCRIPTION WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & Ci WOOD ROOF TRUSS FRAMING E.I.F.S./BATTEN/METAL PANEL/BRICK EXTERIOR FINISH				A	11022020 SAO UPDATES
		REV BY	DATE BY				DESCRIPTION



REV	DATE	SAO UPDATES	DESCRIPTION
A	11/02/2020		

x = Optional Equipment  
 CC = General Contractor  
 R = Relocated Equipment

## 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	
1.15	3	1	SERVICE POD COUNTER PLUS BASE EXTENSION - 6"	DECOR	MFC-6	-	2	KES	-		187.75	2	1	FREEZER SHELVING 24" x 60" x 74" H. - 4-TIER	ISS SHELVING	FSMS/FSMA742460E	-	2	KES	-		
1.61	1	1	SERVICE POD - 60"	DECOR	SEE PLAN	-	2	KES	-		188.00	10	1	DUNNAGE RACK 22" x 36"	INTERMETRO	HP2236PD	-	2	KES	-		
1.63	1	1	McDELIVERY PICKUP COUNTER	DECOR	SEE PLAN	-	2	KES	-		188.07	1	1	UNIVERSAL STAGING CART	ISS SHELVING	WST1364Y	-	2	KES	-		
1.64	1	1	AMENITY TOWER	DECOR	SEE PLAN	-	2	KES	-		188.08	1	1	DUNNAGE RACK 22" x 30"	INTERMETRO	HP2230PD	-	2	KES	-		
1.65	1	1	PICKUP POD - 36"	DECOR	SEE PLAN	-	2	KES	-		188.09	1	1	DUNNAGE RACK 22" x 48"	INTERMETRO	HP2248PD	-	2	KES	-		
2.05	1	1	UNDER COUNTER CART - 24 W x 18 D FRONT COOLER	INTERMETRO	DC-8-DMS	-	2	KES	-		189.65	1	1	COOLER SHELVING 18" x 36" x 74" H. - 4-TIER	ISS SHELVING	FSMS/FSMA741836E	-	2	KES	-		
2.20	3	2	MENUBOARD - DIGITAL	LG	49SH7DB	-	-	AT&T	-		189.71	2	2	COOLER SHELVING 24" x 36" x 74" H. - 4-TIER	ISS SHELVING	FSMS/FSMA742436E	-	2	KES	-		
2.20	2	2	UTILITY CHASE - ICE MAKER ON ABS VERSION	KES	5"x8"x23"	-	2	KES	CONCEALS WATER AND CONDENSING UNIT LINES		189.74	3	3	COOLER SHELVING 24" x 54" x 74" H. - 4-TIER	ISS SHELVING	FSMS/FSMA742454E	-	2	KES	-		
9.15	1	1	UTILITY CHASE - FFDT INTERIOR WALL	KES	20"x5"x76"	-	2	KES	4 SECTION CHASE FOR BUYOUT RECEPTACLES, POS, CO2 AND WATER		189.75	1	1	COOLER SHELVING 24" x 60" x 74" H. - 4-TIER	ISS SHELVING	FSMS/FSMA742460E	-	2	KES	-		
9.16	2	2	UTILITY CHASE - FFDT EXTERIOR WALL	KES	20"x5"x76"	-	2	KES	4 SECTION CHASE FOR BUYOUT RECEPTACLES, POS AND WATER		190.00	5	1	VALANCE SHELVING - 18" x 36"	INTERMETRO	M1836C-MP	-	2	KES	MOUNT AT 6'-8" AFF TO SHELF BOTTOM UNLESS OTHERWISE NOTED		
9.18	2	2	UTILITY CHASE - WALL VERSION	KES	4"x4"x82"	-	2	KES	CHASE FOR BULK OIL LINES, MOUNT AT 2'-0"		190.01	3	1	VALANCE SHELVING - 18" x 48"	INTERMETRO	M1848C-MP	-	2	KES	MOUNT AT 6'-8" AFF TO SHELF BOTTOM UNLESS OTHERWISE NOTED		
9.20	1	1	UTILITY CHASE - COMBI CELL	KES	4"x8"x84"	-	2	KES	CHASE FOR BUYOUT RECEPTACLES AND WATER		190.02	1	1	VALANCE SHELVING - 18" x 60"	INTERMETRO	M1860C-MP	-	2	KES	MOUNT AT 6'-8" AFF TO SHELF BOTTOM UNLESS OTHERWISE NOTED		
10.09	1	1	NAPKIN DISPENSER - DROP-IN	GEORGIA PACIFIC	54218	-	2	KES	-		191.00	5	1	VALANCE SHELVING - 18" x 36"	INTERMETRO	M1836C-MP	-	2	KES	MOUNT AT 5'-0" AFF TO SHELF BOTTOM FOR ABSORB MASTIC APPLICATION		
10.10	1	1	CO2 DRIVEN KETCHUP DISPENSER	PERFECTION	MCD-1	-	2	KES	-		191.03	1	1	VALANCE SHELVING - 18" x 30"	INTERMETRO	M1830C-MP	-	2	KES	MOUNT AT 5'-0" AFF TO SHELF BOTTOM - W/ST		
12.03	1	1	BAKED GOODS DISPLAY CASE - 14"	ANTUNES	DC-14	-	2	KES	-		191.04	1	1	VALANCE SHELVING - 18" x 36"	INTERMETRO	M1836C-MP	-	2	KES	MOUNT AT 5'-0" AFF TO SHELF BOTTOM - W/ST		
20.01	2	2	AUTOMATED BEVERAGE SYSTEM 2.0	MI CORNELIUS	82105890010	-	1	KES	INSTALLATION KIT INCLUDES STAINLESS STEEL CHASE & DATA LINE		194.36	3	1	DRY SHELVING 26" x 100" x 84" H. - 4-TIER MOBILE	DENSTOR	-	2	KES	-			
21.01	3	2	COFFEE BREWER (THERMAL POTS)	BUNN-O-MATIC	AIXOM-DV-3	E32066	4	KES	W/ELECTRONIC CONTROLLER FOR CONVERSION TO LOW OR HIGH VOLTAGE		194.49	1	DRY SHELVING 26" x 76" x 84" H. - 4-TIER FIXED	DENSTOR	-	2	KES	-				
21.09	1	1	HOT WATER DISPENSER	BUNN-O-MATIC	HW2	E32066	4	KES	-		195.36	2	DRY SHELVING 26" x 100" x 84" H. - 5-TIER MOBILE	DENSTOR	-	2	KES	-				
23.10	1	1	ESPRESSO BREWER	FRANKE	FM850	-	4	KES	-		195.51	1	DRY SHELVING 26" x 100" x 84" H. - 5-TIER FIXED	DENSTOR	-	2	KES	-				
23.12	2	2	COFFEE CREAM DISPENSER	SURESHOT	AC110-PC-51	E217698	20	KES	-		196.06	1	SAFE - STANDARD BLDG. - LEFT HINGE	NKL	BSD4125FGXL-MC	-	-	OWNER	-			
23.14	1	1	SUGAR/SWEETENER DISPENSER	SURESHOT	AC2-6P-30	E217698	18	KES	-		197.00	1	STAINLESS STEEL HAND SINK	ADVANCE TABCO	7-PS-61	-	2	GC	REFER TO PLUMB. DWGS. FOR DETAILS, SOAP & TOWEL DISP. BY OTHERS	PROVIDE SIDE SPLASHES (7'-PS-11) WHEN REQUIRED BY LOCAL CODE		
24.01	1	1	ORANGE JUICE DISPENSER	TAYLOR	C009	-	18	KES	-		197.01	1	1	HAND WASH TIMER	NATIONAL CONTROLS	TMD-T1715-120	E53595	-	2	KES	-	
25.01	3	3	SLIMLINE ICED BEVERAGE DISPENSER	BUNN-O-MATIC	TDO-N	E32066	4	KES	KES TO VERIFY EXACT QUANTITY PER MARKET		197.02	1	1	STAINLESS STEEL HAND SINK - SPACESAVER	ADVANCE TABCO	7-PS-22	-	2	GC	REFER TO PLUMB. DWGS. FOR DETAILS, SOAP & TOWEL DISP. BY OTHERS	PROVIDE SIDE SPLASHES (7'-PS-11) WHEN REQUIRED BY LOCAL CODE	
25.06	3	3	SLIMLINE ICED BEVERAGE DISPENSER - SHORT	BUNN-O-MATIC	TDO-N LP	E32066	4	KES	KES TO VERIFY EXACT QUANTITY PER MARKET		197.03	2	1	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-11) WHEN REQUIRED BY LOCAL CODE	
25.07	1	1	INFUSION TEA BREWER - MIS	BUNN-O-MATIC	ITCB-DV	E32066	4	KES	PROVIDED WITH BREWER, INSTALLATION KIT AND TDO-N BOOSTER		197.04	1	1	DRY SHELVING 26" x 100" x 84" H. - 5-TIER	DENSTOR	-	2	KES	-			
26.00	1	1	TEA BREWER TABLE - 30"x36"	ISS SHELVING	WST1756C	-	2	KES	-		197.05	1	1	DRY SHELVING 26" x 100" x 84" H. - 4-TIER	DENSTOR	-	2	KES	-			
31.03	1	1	SODA SYSTEM PACKAGE B.I.B.RECIRCULATING - 3 TOWERS) - REMOTE	MULTIPLEX	500GR4	E121876	18	KES	-		197.06	1	1	SAFE - STANDARD BLDG. - LEFT HINGE	NKL	BSD4125FGXL-MC	-	-	OWNER	-		
32.02	1	1	REVERSE OSMOSIS WATER FILTRATION SYSTEM - EVERPURE	EVERPURE	ENVI-RO-600	-	-	KES	FOR COFFEE MAKER, ESPRESSO MACHINE, AND RAPID BUN STEAMER		197.07	1	1	STAINLESS STEEL HAND SINK	ADVANCE TABCO	7-PS-22	-	2	GC	REFER TO PLUMB. DWGS. FOR DETAILS, SOAP & TOWEL DISP. BY OTHERS	PROVIDE SIDE SPLASHES (7'-PS-11) WHEN REQUIRED BY LOCAL CODE	
32.04	1	1	WATER FILTRATION SYSTEM	EVERPURE	EV9337-26	-	-	KES	-		197.08	1	1	DRIVE-THRU CASH STAND - 21" D x 48" W	INTERMETRO	DT48-8	-	2	KES	-		
36.00	2	2	BULK COKE	CHART INDUSTRIES	10667511	-	18	MANUFACTURER	SYRUP LINES BY CHART INDUSTRIES		201.13	1	1	READY NEXT DRIVE-THRU ASSEMBLY CART -	INTERMETRO	DTPC-36	-	2	KES	SOLID WORK TOP, WIRE SHELVES		
37.00	1	1	BULK CO2 - 750 LB.	CHART INDUSTRIES	CARBO-MAX 750	-	-	MANUFACTURER	-		201.15	1	1	12" D x 36" W	INTERMETRO	DT48-8	-	2	KES	-		
37.03	2	2	CO2 SAFETY SYSTEM	SEE RMKS	-	-	-	KES	SEE MECHANICAL DRAWINGS	INCLUDES DETECTOR AND (4) AV ALARMS	201.16	1	1	DRIVE-THRU ABS CART	KES	-	-	2	KES	ABS DRINK STAGING CART WITH TROUGH		
38.00	1	1	CLEAN IN PLACE PANEL	CHART INDUSTRIES	10667431	-	18	MANUFACTURER	MOUNT 5" W x 7"H. BOX @ 6"-0" AFF TO BOX CENTER LINE		201.18	1	1	CBB STAGING CART	INTERMETRO	MCD-CBB	-	2	KES	-		
39.10	1	1	ICE MACHINE - 1400 LB.	MANITOWOC	IY1494N3/B970	S40427	12	KES	USE HEADMASTER KIT KG0221		201.21	1	1	BLZ FRONT COUNTER TABLE - 30" D x 14" W	INTERMETRO	MCD1430-BLZM	-	2	KES	W/ CASTERS AND OVERSHELF		
39.15	2	2	ICE MACHINE - 1000 LB.	MANITOWOC	IB1094YC	S40427	12	KES	CONDENSER: IVO-1195-263		201.22	1	1	BLZ DRIVE-THRU TABLE - 24" D x 14" W	INTERMETRO	MCD1430-BLZT	-	2	KES	-		
40.00	1	1	ICE MACHINE CHASE	KES	4"x4"x48"	-	2	KES	CONCEALS WATER AND CONDENSING UNIT LINES		201.24	1	1	FRONT COUNTER ABS CART	KES	-	-	2	KES	ABS DRINK STAGING CART WITH TROUGH		
41.06	1	1	ICE MACHINE REMOTE CONDENSER - 1400 LB	MANITOWOC	JC-1395	S40427	12	KES	-		203.01	1	1	HEAT TREAT COMBINATION SHAKES/SUNDAE MACHINE	CARLO GIANNI	SA2403	6	KES	SUPPLIED WITH CONE DISPENSER AND 7'-6" LONG CORD			
41.09	2	2	ICE MACHINE REMOTE CONDENSER - 1000 LB	MANITOWOC	JCV-1195-263	S40427	12	KES	-		203.03	1	1	CUP/CONI DISPENSER								