

TACO BELL

18708 TELEGRAPH ROAD BROWNSTOWN, MI 48183



LEGAL JURISDICTION:	BROWNSTOWN CHARTER TOWNSHIP, BUILDING DEPARTMENT		
BUILDING CODE:	2015 MICHIGAN BUILDING CODE		
ACCESSIBILITY:	ICC A117-2009		
MECHANICAL:	2015 MICHIGAN MECHANICAL CODE		
PLUMBING:	2015 MICHIGAN PLUMBING CODE		
ELECTRICAL:	2017 NATIONAL ELECTRIC CODE		
FIRE:	NFPA		
ENERGY:	2015 MICHIGAN ENERGY CODE		
HEALTH:	MICHIGAN PUBLIC HEALTH CODE		
BUILDING AREA:	2,090 S.F. GROSS		
SEATING:	20 INTERIOR, 10 EXTERIOR		
OCCUPANCY:	A2		
TYPE CONSTRUCTION:	TYPE VB - UNPROTECTED		
TYPE	AREA	FACTOR	OCCUPANTS
DINING ROOM	447 S.F.	1:15 S.F. (NET)	30
QUEUING	60 S.F.	1:5 S.F. (NET)	12
KITCHEN	1008 S.F.	1:200 S.F. (GROSS)	6
OFFICE	72 S.F.	1:100 S.F. (GROSS)	1
ACCESSORY STORAGE	173 S.F.	1:300 S.F. (GROSS)	1
ACCESSORY RESTROOMS & PASSAGE	283 S.F.	0 (GROSS)	0
TOTAL			50

PROJECT SUMMARY

# PHONE LINES:	25 PAIR CABLE IN 2" CONDUIT
ELECTRIC SERVICE:	600 AMPS / 3 PHASE / 120-208 VOLT
GAS:	909,000 BTU/H
WIND SPEED:	90 M.P.H. / EXPOSURE B
EARTHQUAKE ZONE:	D
ROOF LIVE LOAD:	25 P.S.F.

DESIGN CRITERIA

CURRENT ZONING B-2, COMMUNITY BUSINESS DISTRICT	
FOR TACO BELL USE/APPROVAL ONLY	
BUILDING S.F.:	2,090 S.F.
SITE SIZE:	29,974 S.F.
PARKING COUNT:	36
INT. SEATING:	20
EXT. SEATING:	10
KIOSK COUNT:	4
D.M.B.:	YES
DT DMP:	YES
DT DPB:	YES
REFER TO CIVIL DRAWINGS.	

LEGAL DESCRIPTION

OWNER YUM! BRANDS, INC. 1900 COLONEL SANDERS LANE LOUISVILLE, KY 40213 CONTACT: STEVE PULCHEON PHONE: 949.863.3864	ARCHITECT GPD GROUP, PROFESSIONAL CORP. 520 S. MAIN STREET, SUITE 2531 AKRON, OH 44311 CONTACT: SARAH MCGOWAN PHONE: 330.572.2100
CONSTRUCTION MANAGER YUM! BRANDS, INC. 1900 COLONEL SANDERS LANE LOUISVILLE, KY 40213 CONTACT: STEVE PULCHEON PHONE: 949.863.3864	STRUCTURAL ENGINEER GPD GROUP, PROFESSIONAL CORP. 520 S. MAIN STREET, SUITE 2531 AKRON, OH 44311 CONTACT: SARAH MCGOWAN PHONE: 330.572.2100
CIVIL ENGINEER GPD GROUP, PROFESSIONAL CORP. 520 S. MAIN STREET, SUITE 2531 AKRON, OH 44311 CONTACT: SARAH MCGOWAN PHONE: 330.572.2100	M/E/P ENGINEER GPD GROUP, PROFESSIONAL CORP. 520 S. MAIN STREET, SUITE 2531 AKRON, OH 44311 CONTACT: SARAH MCGOWAN PHONE: 330.572.2100
GEOTECHNICAL ENGINEER PROFESSIONAL SERVICE INDUSTRIES, INC. 37483 INTERCHANGE DRIVE FARMINGTON HILLS, MI 48335 CONTACT: KEVIN F. DUBNICKI, PE CONTACT: 248.957.9911	CIVIL ENGINEER GPD GROUP, PROFESSIONAL CORP. 520 S. MAIN STREET, SUITE 2531 AKRON, OH 44311 CONTACT: SARAH MCGOWAN PHONE: 330.572.2100

PROJECT DIRECTORY

SEWER CHARTER TOWNSHIP OF BROWNSTOWN 21313 TELEGRAPH RD. BROWNSTOWN, MI 48183 CONTACT: WILLIAM TURNER PHONE: 734.675.4000	TELEPHONE AT&T CONTACT: BRIAN GRIFFIN PHONE: 316.240.5486
WATER CHARTER TOWNSHIP OF BROWNSTOWN 21313 TELEGRAPH RD. BROWNSTOWN, MI 48183 CONTACT: WILLIAM TURNER PHONE: 734.675.4000	
GAS DTE ENERGY ONE ENERGY PLAZA DETROIT, MI 48226 CONTACT: SAMANTHA COOK PHONE: 313.570.4133	
ELECTRIC DTE ENERGY ONE ENERGY PLAZA DETROIT, MI 48226 CONTACT: JACQUELINE YOUNG PHONE: 313.402.8231	

- ALL WORK SHALL CONFORM TO THE 2015 EDITION OF THE MICHIGAN BUILDING CODE, AND ALL OTHER APPLICABLE CODES, STANDARDS, AND REGULATIONS OF THE CHARTER TOWNSHIP OF BROWNSTOWN AND COUNTY OF WAYNE.
- IT IS INTENDED THAT A COMPLETE OCCUPIABLE BUILDING PROJECT IS PROVIDED.
- THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION (A.I.A. A201 LATEST EDITION) ARE A PART OF THESE CONTRACT DOCUMENTS. A COPY IS ON FILE AT THE ARCHITECT'S OFFICE.
- DRAWINGS ARE BASED ON A SURVEY, DATED OCTOBER 03, 2019 PREPARED BY KEM-TEC AND IS INCLUDED IN THESE DOCUMENTS.
- THIS BUILDING HAS BEEN DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS OF A GEOTECHNICAL INVESTIGATION DATED NOVEMBER 15, 2019 BY PROFESSIONAL SERVICE INDUSTRIES, INC. THE REPORT IS PART OF THESE CONTRACT DOCUMENTS, AND THE CONTRACTOR IS RESPONSIBLE FOR CARRYING OUT ITS RECOMMENDATIONS, THOUGH SOME MAY NOT BE SPECIFICALLY DETAILED ON THE PLANS.
- DO NOT SCALE THESE DRAWINGS. VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD. ANY DISCREPANCIES IN THESE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO STARTING WORK.
- ALL PROPOSED SUBSTITUTIONS SHALL BE APPROVED BY THE TACO BELL CORPORATE BRAND DESIGNER OR CONSTRUCTION MANAGER, IN WRITING, PRIOR TO INSTALLATION.
- RETAIN THE PROJECT GEOTECHNICAL ENGINEER TO PROVIDE OBSERVATION AND TESTING SERVICES DURING THE GRADING (INCLUDING UTILITY TRENCHES) AND FOUNDATION PHASE OF CONSTRUCTION AS RECOMMENDED IN THE GEOTECHNICAL REPORT. ALL TESTING AND INSPECTION REPORTS, INCLUDING FINAL SUMMATION LETTER, SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT AND OWNER. G.C. SHALL CERTIFY PAD ELEVATION PRIOR TO START OF FOUNDATION WORK.
- SUBMIT, PAY FEES AND OBTAIN ALL PERMITS ASSOCIATED WITH THE PROJECT EXCEPT GENERAL BUILDING PERMIT. THIS INCLUDES, BUT IS NOT LIMITED TO ELECTRICAL, MECHANICAL, PLUMBING, FIRE SPRINKLER, HOOD ANSUL, OR OTHER RELATED FIRE PERMITS, ENCROACHMENT PERMIT, ETC. YUM BRANDS WILL PAY FOR "CONNECTION FEES" ASSOCIATED WITH UTILITY PERMITS. PAY FOR TEMPORARY FACILITIES FEES AS REQUIRED TO COMPLETE THE WORK IN A TIMELY MANNER.
- PROVIDE EACH SUBCONTRACTOR WITH A COMPLETE AGENCY-PERMITTED DRAWING SET AT TIME OF CONSTRUCTION.
- ALL ABBREVIATIONS INCLUDED FOLLOW INDUSTRY STANDARDS. CONTACT ARCHITECT IF ANY ABBREVIATIONS ARE NOT CLEAR.
- GC SHALL SUPPLY AND INSTALL ALL ASPECTS OF THE PROJECT DESCRIBED IN THIS DRAWING SET UNLESS OTHERWISE NOTED. SEE SCOPE OF WORK FOR EXCEPTIONS.
- GRAPHIC AND WRITTEN INFORMATION ON DRAWINGS SHALL BE COORDINATED WITH ALL TRADES PRIOR TO INSTALLATION.
- ALL MATERIALS STAGED TO BE USED FOR CONSTRUCTION SHALL BE PROTECTED FROM EXCESSIVE MOISTURE. IF THEY ARE EXPOSED TO MOISTURE THEY SHOULD BE ADEQUATELY DRIED AND INSPECTED FOR COMPLIANCE WITH MINIMUM QUALITY STANDARDS BEFORE ENCAPSULATED INTO THE BUILDING.
- ALL PAINTS, ADHESIVES, COATINGS AND SEALANTS USED INSIDE THE BUILDING SHALL HAVE A LOW VOC CONTENT.

OFFICE	ROOM NAME	ELEV. LETTER
A	SHEET NUMBER	ELEV. SHEET
B	ELEVATION NUMBER	DOOR NUMBER
C	CEILING HEIGHT	WINDOW NUMBER / DECOR ITEM NUMBER
8'-4"	BLDG. SECTION LETTER	KEY NOTE NUMBER
X	BLDG. SECTION SHEET	EQUIPMENT NUMBER
XX	DETAIL NUMBER	WALL NUMBER
XXX	DIRECTION OF DETAIL	INTERIOR ELEVATION DESIGNATION
XXX	DETAIL SHEET	SHEAR WALL TYPE (STRUCTURAL)
XXX	REVISION NUMBER	EQUIPMENT / FIXTURE NUMBER (M.E.P.)
0'-0"	BLDG. HEIGHT REFERENCE POINT	INDICATES SUSTAINABLE DESIGN
0'-0"	ELEV.	

GENERAL DRAWING SYMBOLS



VICINITY MAP

PROJECT GENERAL NOTES

SHEET ISSUED ON DATE INDICATED, WITH MODIFICATIONS		ISSUE
SHEET ISSUED ON DATE INDICATED, NO MODIFICATIONS		0
TITLE/GEN. CONDITIONS		
T1.0	TITLE SHEET	
G1.0	GREEN CHECKLIST SHEET	
G2.0	TRASH ENCLOSURE DETAILS	
G3.0	PEST PREVENTION GUIDE	
G4.0	SIGNAGE PLAN	
G4.1	SIGNAGE DETAILS	
TITLE/SITE SHEET COUNT: 6		
STRUCTURAL		
S1.0	FOUNDATION PLAN	
S2.0	WALL FRAMING PLAN	
S3.0	ROOF FRAMING PLAN	
S4.0	STRUCTURAL DETAILS	
S4.1	STRUCTURAL DETAILS	
S4.2	STRUCTURAL DETAILS	
S4.3	STRUCTURAL DETAILS	
S4.4	STRUCTURAL SECTIONS	
S4.5	CANOPY PLANS & DETAILS	
S5.0	CANOPY/AWNING BLOCKING ELEVATIONS	
STRUCTURAL SHEET COUNT: 10		
CIVIL		
SEE CIVIL DRAWINGS FOR SHEET INDEX.		
ARCHITECTURAL		
A1.0	FLOOR PLAN	
A1.1	DOOR & WINDOW ELEVATIONS & SCHEDULES	
A2.0	EQUIPMENT AND SEATING PLAN	
A2.1	EQUIPMENT SCHEDULE	
A3.0	ROOF PLAN	
A4.0	EXTERIOR ELEVATIONS	
A4.1	EXTERIOR ELEVATIONS	
A5.0	BUILDING SECTIONS	
A5.1	BUILDING SECTIONS	
A5.2	WALL SECTIONS	
A5.3	WALL SECTIONS	
A5.4	WALL SECTIONS	
A6.0	CONSTRUCTION DETAILS ROOF	
A6.1	CONSTRUCTION DETAILS DOOR/WINDOW	
A6.2	CONSTRUCTION DETAILS WALL	
A6.3	FINISH DETAILS	
A6.4	CONSTRUCTION DETAILS INTERIOR	
A6.5	CEILING DETAILS	
A6.6	HARDIE BOARD DETAILS	
A7.0	FLOOR FINISH PLAN	
A7.1	REFLECTED CEILING PLAN	
A7.2	FINISH SCHEDULE	
A8.0	INTERIOR ELEVATIONS DINING ROOM	
A8.1	INTERIOR ELEV. ENLARGED RESTROOMS & OFFICE PLAN	
A8.2	INTERIOR ELEVATIONS KITCHEN	
A8.3	INTERIOR ELEVATIONS KITCHEN	
A9.0	PATIO DETAILS	
ARCHITECTURAL SHEET COUNT: 27		
ACCESSIBILITY		
ADA1.0	ACCESSIBILITY REQUIREMENTS	
ADA1.1	ACCESSIBILITY REQUIREMENTS	
ACCESSIBILITY SHEET COUNT: 2		
MECHANICAL		
M1.0	MECHANICAL SCHEDULES AND NOTES	
M2.0	DUCT AND DIFFUSER PLAN	
M2.1	MECHANICAL ROOF PLAN	
M3.0	HOOD DETAILS AND SECTIONS	
M4.0	MECHANICAL DETAILS	
M5.0	CONTROLS DETAILS	
MECHANICAL SHEET COUNT: 6		
PLUMBING		
P1.0	PLUMBING SCHEDULES AND NOTES	
P2.0	WASTE AND VENT PLAN	
P3.0	WATER AND GAS PLAN	
P4.0	PLUMBING ROUGH-IN PLAN	
P5.0	RISER DIAGRAMS	
P6.0	PLUMBING DETAILS	
PLUMBING SHEET COUNT: 6		
ELECTRICAL		
E1.0	SITE ELECTRICAL PLAN	
E2.0	ELECTRICAL ONE LINE DIAGRAMS AND LEGEND	
E2.1	ELECTRICAL SCHEDULES	
E2.2	ELECTRICAL SCHEDULES	
E3.0	ELECTRICAL POWER PLAN	
E3.1	ENLARGED POWER PLAN AND DETAILS	
E3.2	ELECTRICAL POWER ROOF PLAN	
E4.0	LIGHTING PLAN AND DETAILS	
E5.0	COMMUNICATIONS PLAN	
E6.0	ELECTRICAL DETAILS - TBCCB	
E6.1	ELECTRICAL DETAILS - TBCCB	
E7.0	ELECTRICAL DETAILS	
E7.1	ELECTRICAL DETAILS	
ELECTRICAL SHEET COUNT: 13		
SCOPE OF WORK		
SW1.0	SCOPE OF WORK	
SW2.0	INSTALLATION START-UP PRE-COMM CHECK LIST	
SW2.1	BALANCING AND COMMISSIONING SEQUENCE	
SCOPE OF WORK SHEET COUNT: 5		
SPECIFICATIONS		
IN BOOK FORMAT		

SHEET INDEX



DATE	REMARKS
07.21.21	Issued for Permit
09.17.21	Health Comments
03.11.22	Issued for Construction

CONTRACT DATE: 06.22.21
 BUILDING TYPE: END, MED20
 PLAN VERSION: MARCH 2021
 BRAND DESIGNER: DICKSON
 SITE NUMBER: 315089
 STORE NUMBER: 40164
 PA/PM: SM
 DRAWN BY: RS
 JOB NO.: 2019088.31

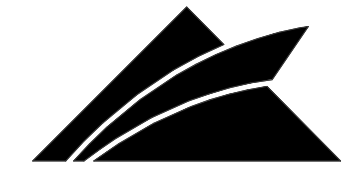
TACO BELL
 18708 TELEGRAPH ROAD
 BROWNSTOWN, MI 48183



ENDEAVOR 2.0 TITLE SHEET

T1.0

PLOT DATE: 3/9/2022 10:28:58 AM



GPD GROUP Professional Corporation

520 S. MAIN STREET, SUIT 2531 AKRON, OH 44311 330.572.2100 FAX: 330.572.2102

CHECK LIST NUMBER EXPLANATION:

THE CHECKLIST NUMBERS BELOW ALIGN WITH THE CREDIT NUMBERS IN THE YUM BLUELINE SYSTEM WEBSITE. FOR FURTHER DETAIL GO TO THE FOLLOWING WEB ADDRESS. NOTE: FOLLOW THE 'REQUIRED' AND 'OPTIONAL' DESIGNATION ON THIS SHEET RATHER THAN THE ONES ON THE YUMBLUELINE WEBSITE. THE SYSTEM HAS BEEN SETUP SO THAT IF YOU DO THE 'REQUIRED' ITEMS ON THIS LIST YOUR RESTAURANT WILL MEET THE YUMBLUELINE REQUIREMENTS.

- 1. GO TO THE REFERENCE VERSION OF THE YUM BLUELINE WEBSITE: 'WWW.YUMBLUELINE.COM'
2. IN THE 'USER' SECTION CHOOSE 'GENERAL' FROM THE PULL DOWN MENU
3. IN THE 'PASSWORD' SECTION TYPE IN 'J2121KLA'

P = INDICATES THAT SCOPE IS ALREADY IN THE PROTOTYPE DRAWINGS
* = INDICATES OPTIONAL ITEMS

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* = INDICATES OPTIONAL ITEMS

FEASIBILITY DESIGN CONSTRUCTION COMMISSIONING

FEASIBILITY DESIGN CONSTRUCTION COMMISSIONING

FEASIBILITY DESIGN CONSTRUCTION COMMISSIONING

Table with 5 columns (FEASIBILITY, DESIGN, CONSTRUCTION, COMMISSIONING) and multiple rows detailing environmental and material limits (Formaldehyde, VOC, Specialty Coatings) and other requirements (Thermal Comfort, LEED, etc.).

Table with 5 columns (FEASIBILITY, DESIGN, CONSTRUCTION, COMMISSIONING) and multiple rows detailing recycling requirements (Recycling, Cooking Oil, Cardboard), air quality (Ventilation, No Smoking, Protection of Materials), and adhesive/coating specifications.

Table with 5 columns (FEASIBILITY, DESIGN, CONSTRUCTION, COMMISSIONING) and multiple rows detailing site and facility requirements (Contaminated Sites, Location Commitment, Pay Utilities, Proximity to Bus Stop, Bicycle Facilities, Parking, White Roof, Construction Pollution Control, Building Water, Process Water, Landscape Design, Irrigation Water, Interior Lighting, Exterior Lighting, Sign Illumination, Exhaust Hoods, HVAC Engineer, Optimize HVAC Design, HVAC Efficiency, Economizer Performance, Hot Water Efficiency, Refrigerants, Refrigeration, Cooking & Washing Equipment, Basic Lighting & Thermal Controls, Occupancy Sensors, Recycled Content, Construction Waste Management).

Table with 2 columns: DATE and REMARKS. Contains entries for permit issuance and construction start dates.

CONTRACT DATE: 06.22.21
BUILDING TYPE: END, MED20
PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 315089
STORE NUMBER: 40164
PA/PM: SM
DRAWN BY.: RS
JOB NO.: 2019088.31

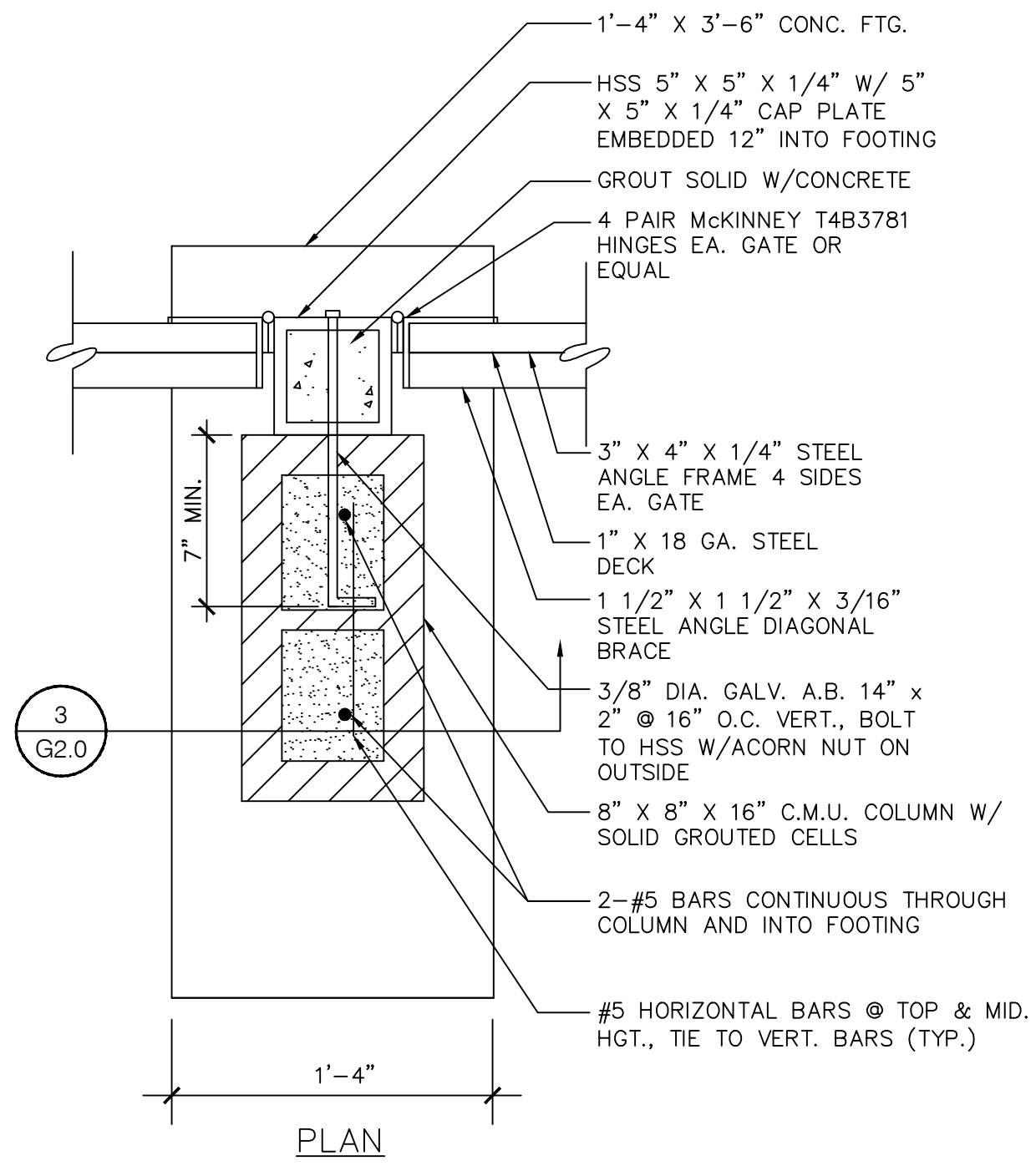
TACO BELL
18708 TELEGRAPH ROAD
BROWNSTOWN, MI 48183



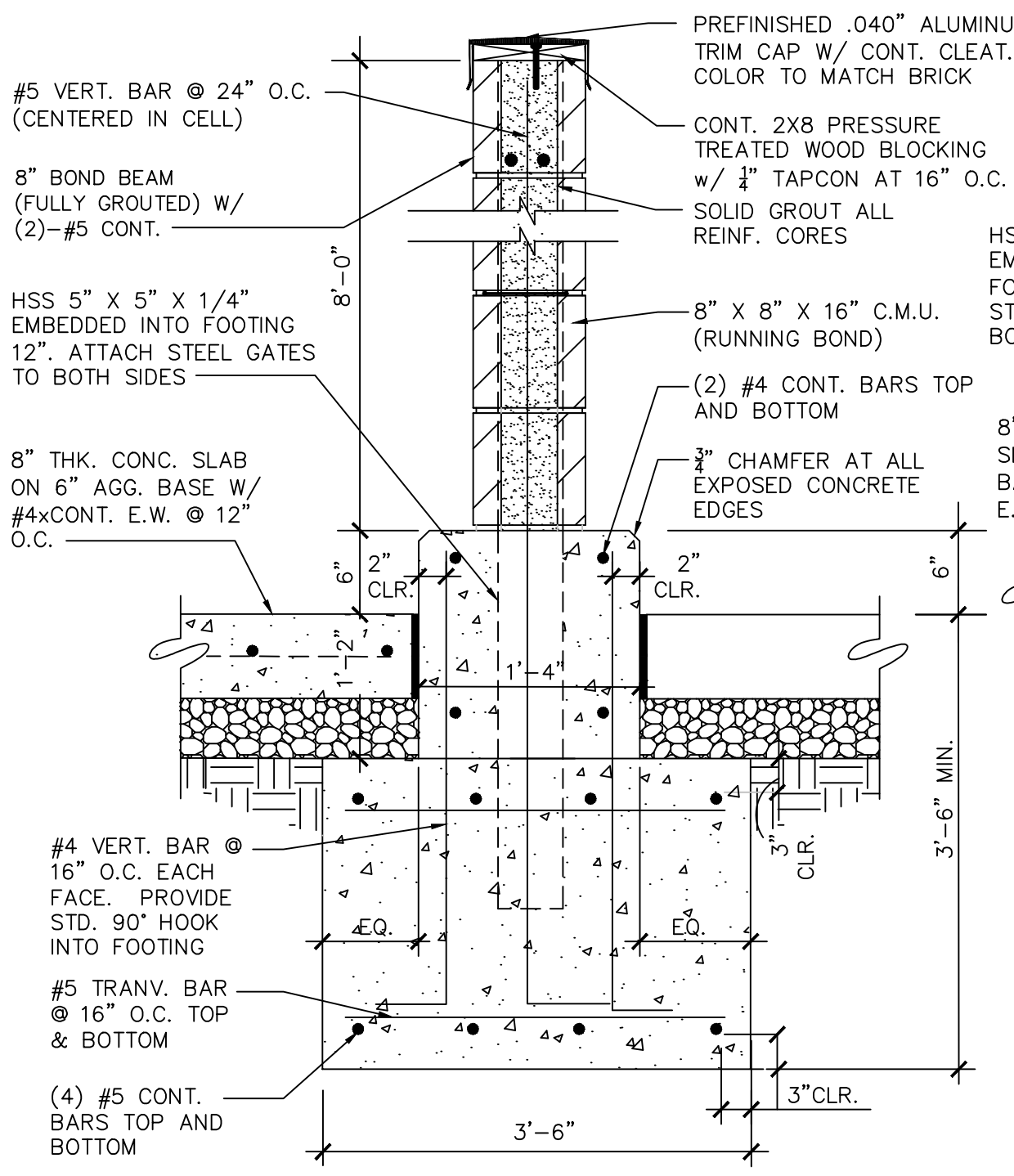
ENDEAVOR 2.0 GREEN CHECKLIST SHEET

G1.0

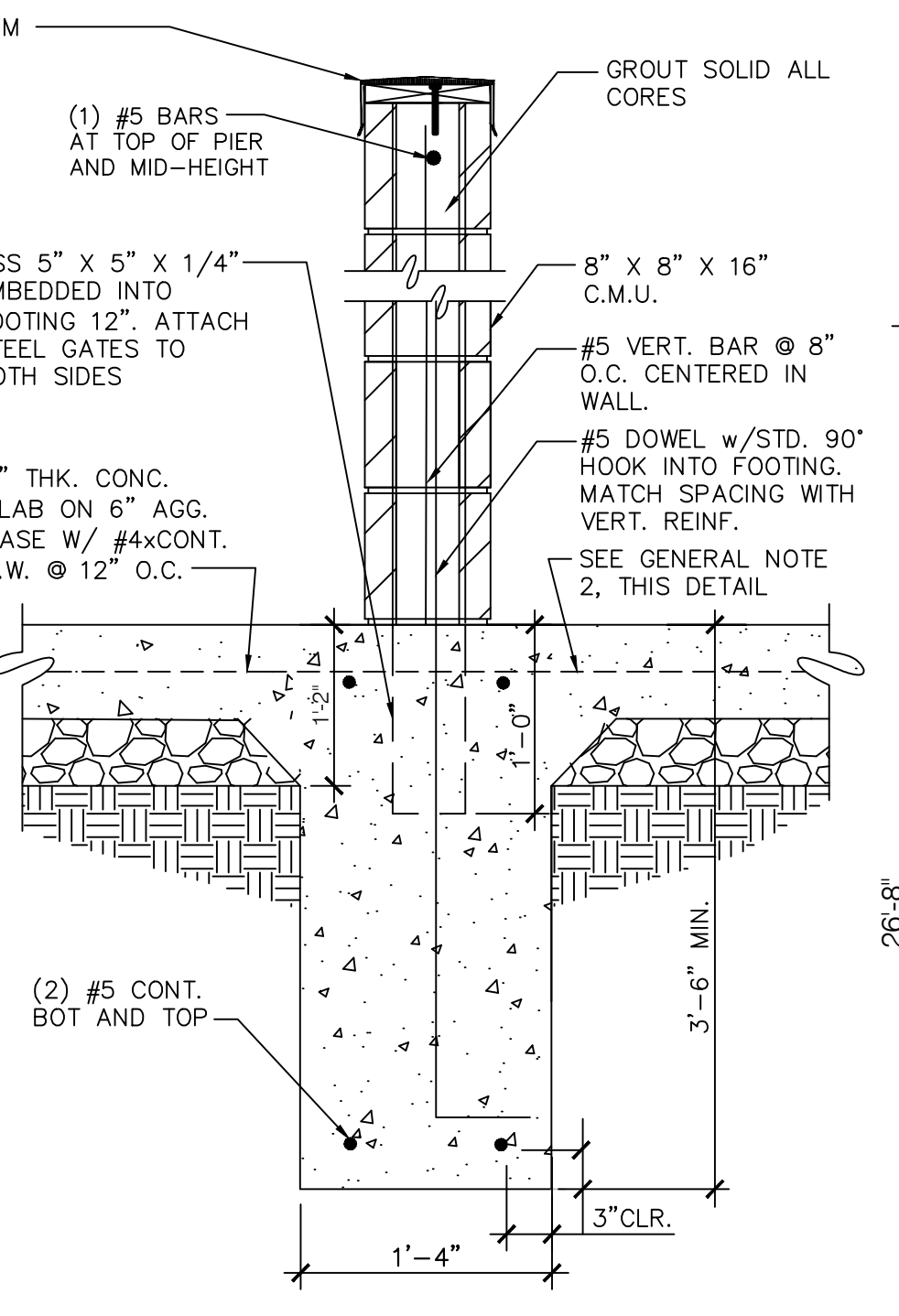
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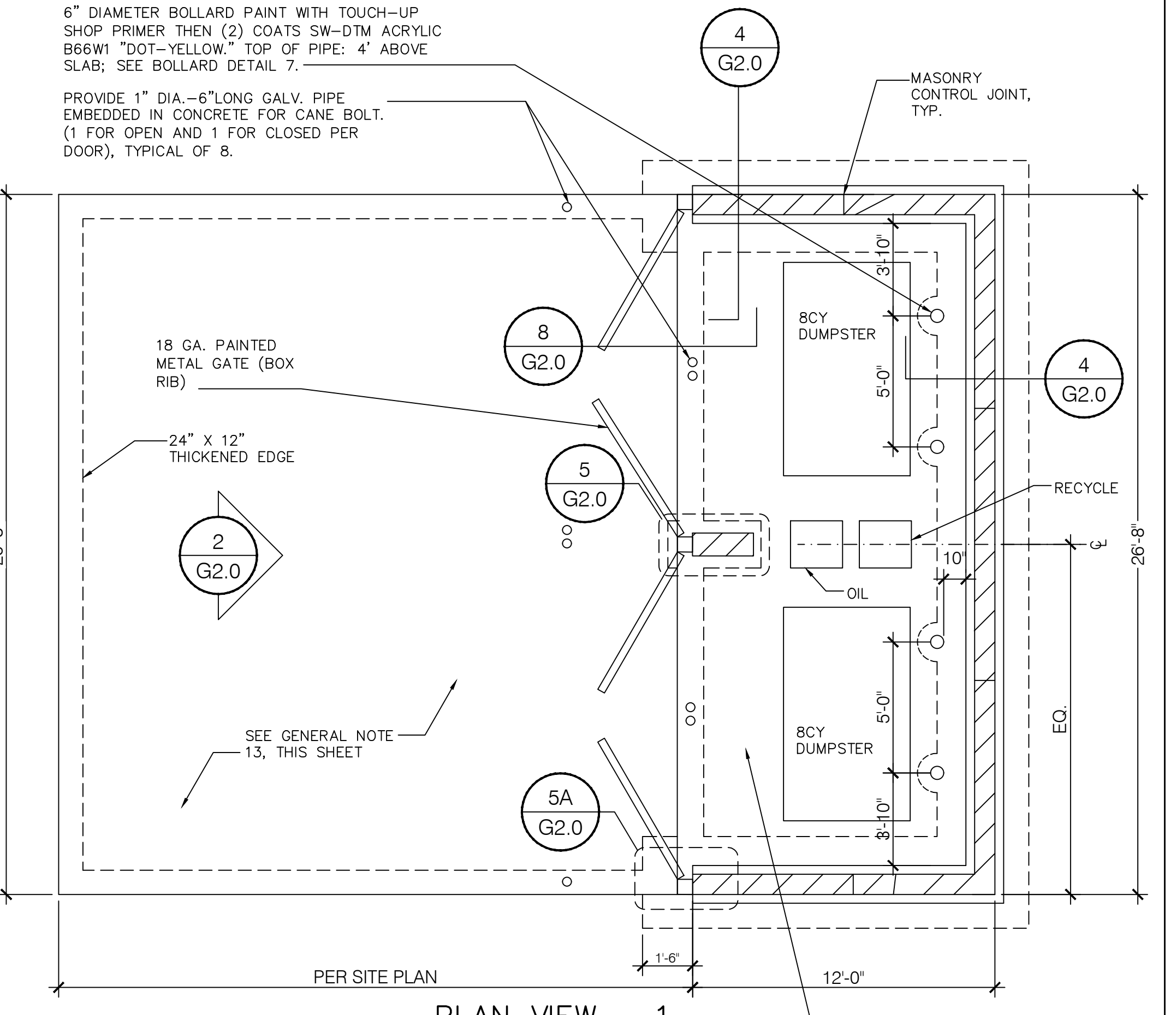
JAMB DETAIL - 5
N.T.S.



SECTION - 4
N.T.S.



SECTION - 3
N.T.S.



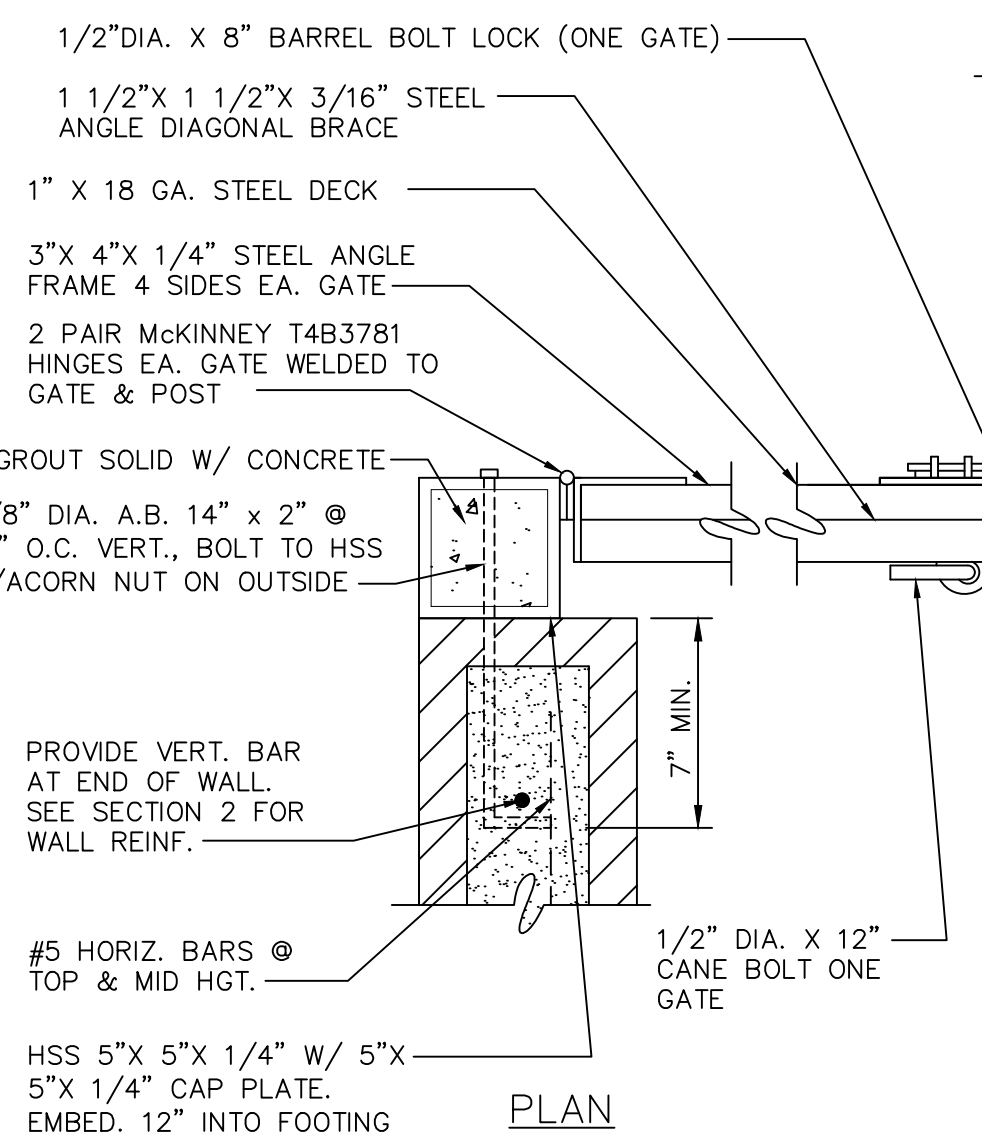
PLAN VIEW - 1
N.T.S.

GATE NOTES:

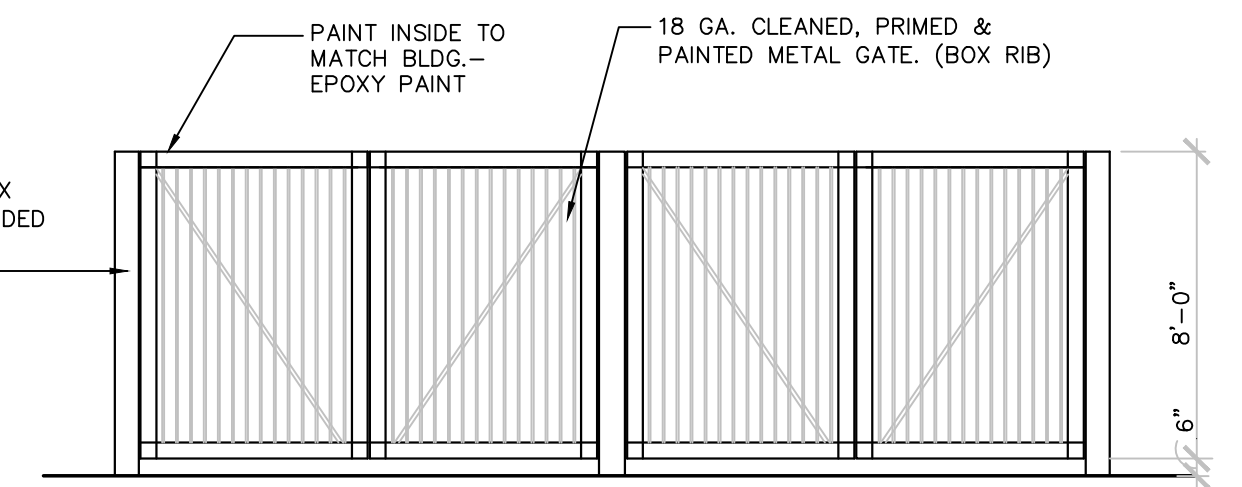
(2) EQUAL (±6'-0") WIDE X 6'-0" HIGH STEEL GATES, TYPE 'B' 1 1/2" GALVANIZED DECKING, 18 GA. W/ STEEL ANGLE DIAGONAL GALVANIZED CROSS BRACING, WELD AND GRIND SMOOTH ALL CONNECTIONS, TYP. PRIME AND PAINT COLOR TO MATCH BUILDING SIDING.

GATE HARDWARE:

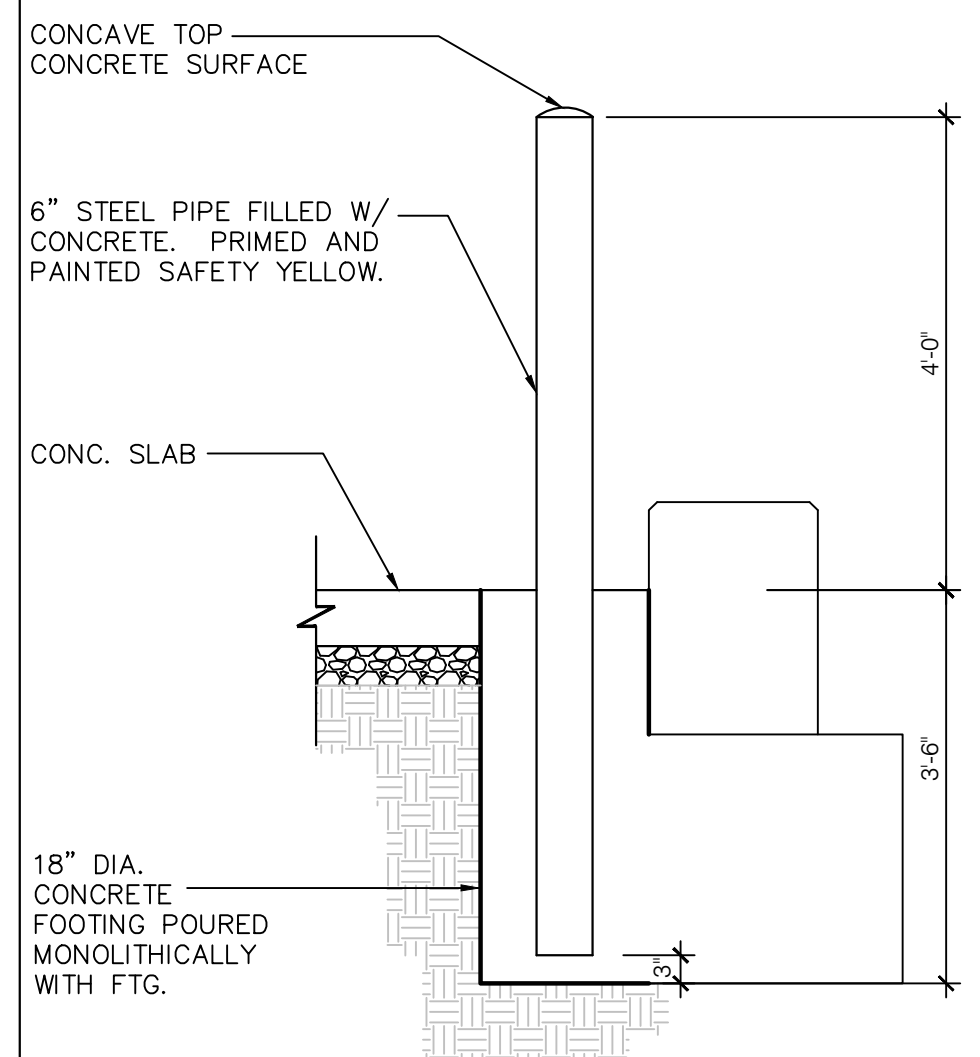
ALL HARDWARE AND ACCESSORIES SHALL BE HEAVY GALVANIZED.
GATE STOP - MUSHROOM TYPE OR FLUSH PLATE WITH ANCHORS SET IN CONCRETE TO ENGAGE THE CENTER DROP ROD OR PLUNGER BAR.



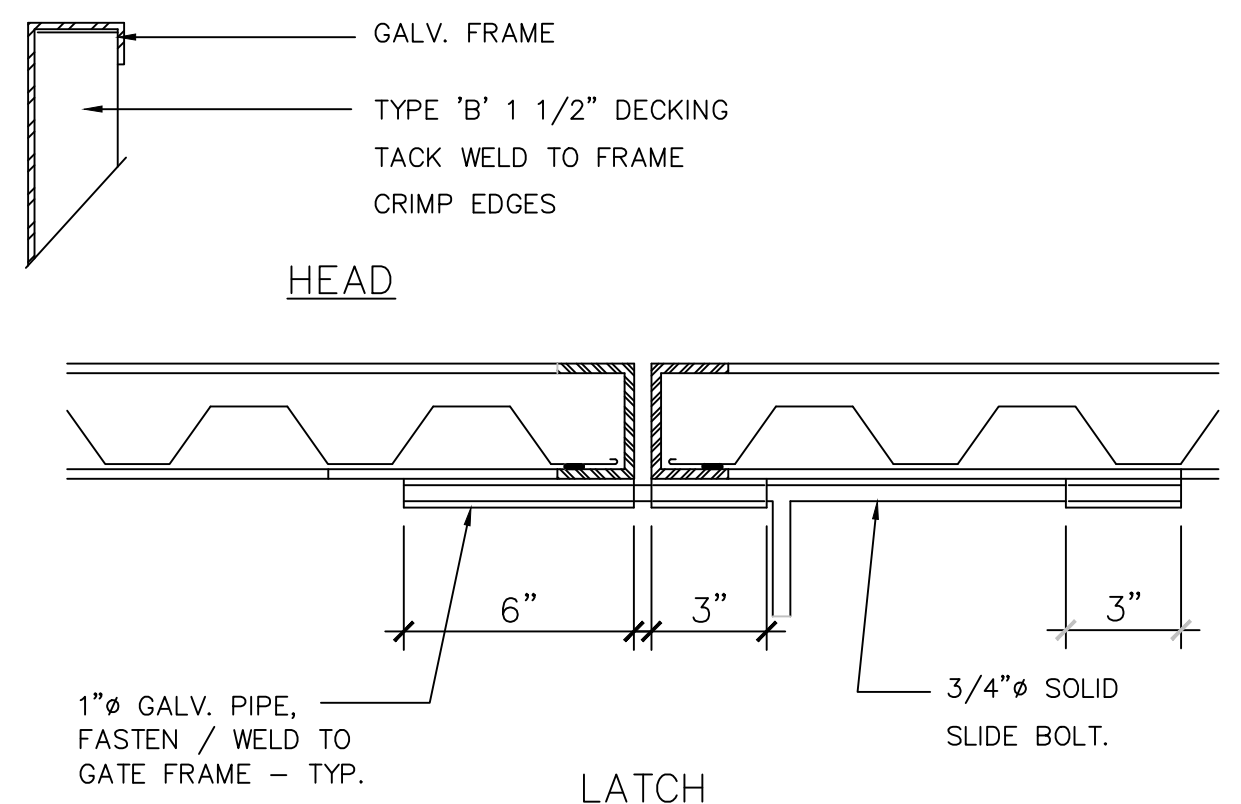
JAMB DETAIL - 5A
N.T.S.



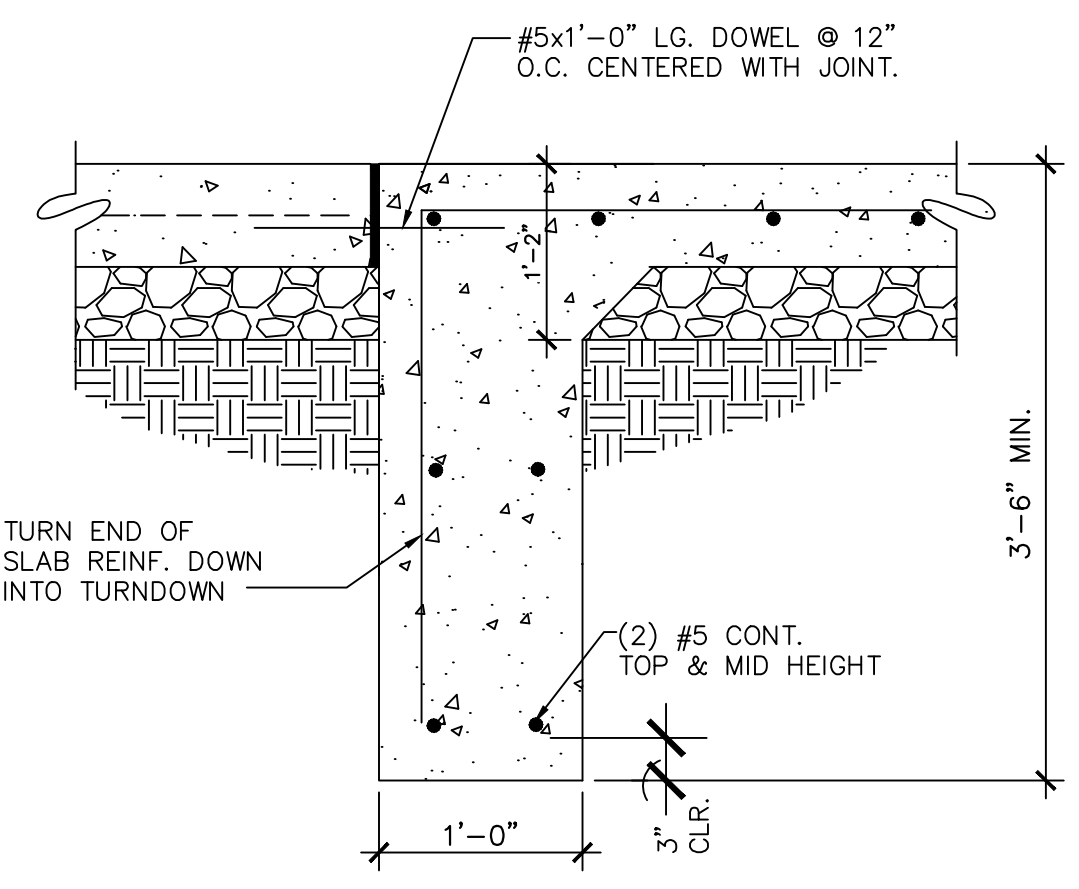
ELEVATION - 2
N.T.S.



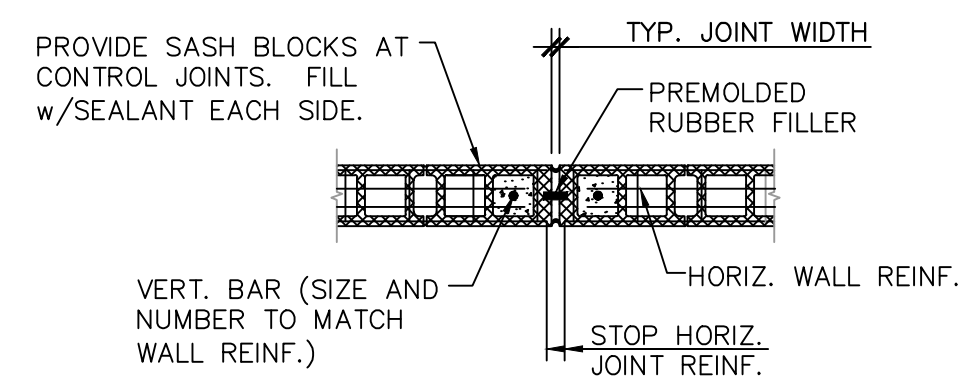
BOLLARD DETAIL - 7
N.T.S.



GATE DETAILS - 6
N.T.S.



SECTION - 8
N.T.S.



MASONRY CONTROL JOINT - 9
N.T.S.

NOTES:

1. LOCATION SHALL BE APPROVED BY THE PUBLIC WORKS DEPARTMENT.
2. AREAS SHALL BE ACCESSIBLE FOR DELIVERY AND COLLECTION.
3. GATES SHALL BE CORRUGATED METAL DOORS AND MUST BE APPROVED BY PUBLIC WORKS DEPARTMENT PRIOR TO INSTALLATION.
4. GATE LATCHES SHALL BE OF THE PLUNGER BAR TYPE OR EQUIVALENT AS APPROVED BY THE PUBLIC WORKS DEPARTMENT.

TRASH ENCLOSURE DETAIL MATERIAL SPECIFICATIONS:

1. CONCRETE BLOCK: 8" MINIMUM IN SIZE. ASTM C90.
2. REINFORCING STEEL: ASTM 615. GRADE 60.
3. ACCEPTABLE SOIL TYPES:
 - A. MIN. ALLOWABLE BEARING: 2500 LBS/SQ. FT. (PRESUMPTIVE)
 - B. MIN. LATERAL BEARING: 350 LBS/SQ. FT./FT. (PRESUMPTIVE)
 - C. MAX EXPANSION INDEX: 20
4. CONCRETE: 4000 LBS/SQ. IN. IN 28 DAYS.
5. MORTAR: 1: 1/4: 3 (PORTLAND CEMENT: HYDRATED LIME OR LIME PUTTY: SAND BY VOLUME). MIXED TO PLASTIC CONSISTENCY.
6. GROUT: 1: 1/10: 3 (PORTLAND CEMENT: HYDRATED LIME OR LIME PUTTY: SAND BY VOLUME). MIX TO FLOW WITHOUT SEGREGATION. GROUT MAY CONTAIN 2 PARTS PEA GRAVEL (3/8" MAX. SIZE). MINIMUM COMPRESSIVE STRENGTH: 2000 LBS/SQ. IN
7. HSS PIPE SHALL CONFORM TO ASTM A500, GR. B (Fy=46 KSI).

GENERAL NOTES:

1. CONTRACTOR TO FIELD VERIFY SITE CONDITIONS AND UNDERGROUND UTILITIES PRIOR TO ORDERING AND/OR FABRICATING MATERIALS. CONTRACTOR SHALL VERIFY LOCATION OF DUMPSTER ENCLOSURE WITH CIVIL PLANS. NOTIFY ARCHITECT AND CIVIL ENGINEER IMMEDIATELY IF ANY DISCREPANCIES ARE FOUND.
2. FOOTINGS SHALL EXTEND 3'-6" MINIMUM BELOW FINISH GRADE AND SHALL BE IN NATURAL SOIL OR CERTIFIED FILL.
3. BLOCKS TO BE STAGGERED (RUNNING BOND).
4. ALL CELLS CONTAINING REINFORCING STEEL SHALL BE GROUTED.
5. APPROVED GROUT STOPS ARE REQUIRED BELOW HORIZONTAL STEEL IN

PARTIALLY GROUTED WALLS. BAGS, NEWSPAPERS, ETC. ARE NOT APPROVED GROUT STOPS.

6. INITIAL BED JOINT SHALL BE 1/4" MIN. 1" MAX. SUBSEQUENT BED JOINTS SHALL BE 1/4" - MIN., 3/8" MAX.
7. VERTICAL CONTINUITY OF CELLS SHALL BE UNOBSTRUCTED. MORTAR PROJECTIONS SHALL NOT EXCEED 1/2" FOR 6" AND LARGER BLOCK. MORTAR DROPPINGS OR OTHER FOREIGN MATTER ARE NOT PERMITTED IN CELLS AND MUST BE REMOVED.
8. CONTROL JOINTS REQUIRED 12" MAX. SPACING AND 6" FROM CORNERS, SEE PLAN.
9. REQUIRED MASONRY BAR LAPS:
 - A. VERTICAL STEEL : 48 BAR DIAMETERS.
 - B. HORIZONTAL STEEL: 48 BAR DIAMETERS.
 - C. WIRE JOINT REINFORCEMENT IN THE MORTARED BED JOINT: 75 WIRE DIAMETERS OR IN ALTERNATE BED JOINTS OF RUNNING BOND. 54 DIAMETERS PLUS TWICE THE BED JOINT SPACING.
10. PLACE HORIZONTAL WIRE JOINT REINFORCEMENT AS FOLLOWS: TWO 3/16" DIAMETER BARS CONNECTED AT 16" INTERVALS BY NO. 9 GAUGE WELDED WIRE.
11. FOR PIPES AND CONDUIT EMBEDDED IN MASONRY, REFER TO CHAPTER 21 OF THE 2015 MBC.
12. 3" MIN. COVER REQUIRED FOR REINFORCEMENT IN CONCRETE WHICH IS CAST AGAINST EARTH.
13. 8" THICK CONCRETE SLAB OVER 6" THICK CRUSHED AGGREGATE. 42" DEEP X 12" WIDE THICKENED EDGE FOR APPROACH SLAB. #4 REBAR @ 1'-0" O.C. EACH WAY. PROVIDE SAWCUTS AT 10'-0" O.C. EACH WAY.

INSPECTION PROCEDURES:

1. FOUNDATION: AFTER TRENCHES ARE DUG, STEEL IS TIED IN PLACE AND BEFORE ANY CONCRETE IS PLACED.
2. PREGROUT: AFTER ALL BLOCKS (EXCEPT CAP) ARE IN PLACE. VERTICAL AND HORIZONTAL STEEL IS IN PLACE, GROUT STOPS (FOR PARTIALLY GROUTED MASONRY) ARE IN PLACE, AND PRIOR TO GROUTING.
3. FINAL: AFTER GROUT IS IN PLACE AND PRIOR TO PLACEMENT OF CAP.

DATE	REMARKS
07.21.21	Issued for Permit
03.11.22	Issued for Construction

CONTRACT DATE: 06.22.21
BUILDING TYPE: END. MED20
PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 315089
STORE NUMBER: 40164
PA/PM: JN
DRAWN BY.: RS
JOB NO.: 2019088.31

TACO BELL

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BROWNSTOWN, MI 48183

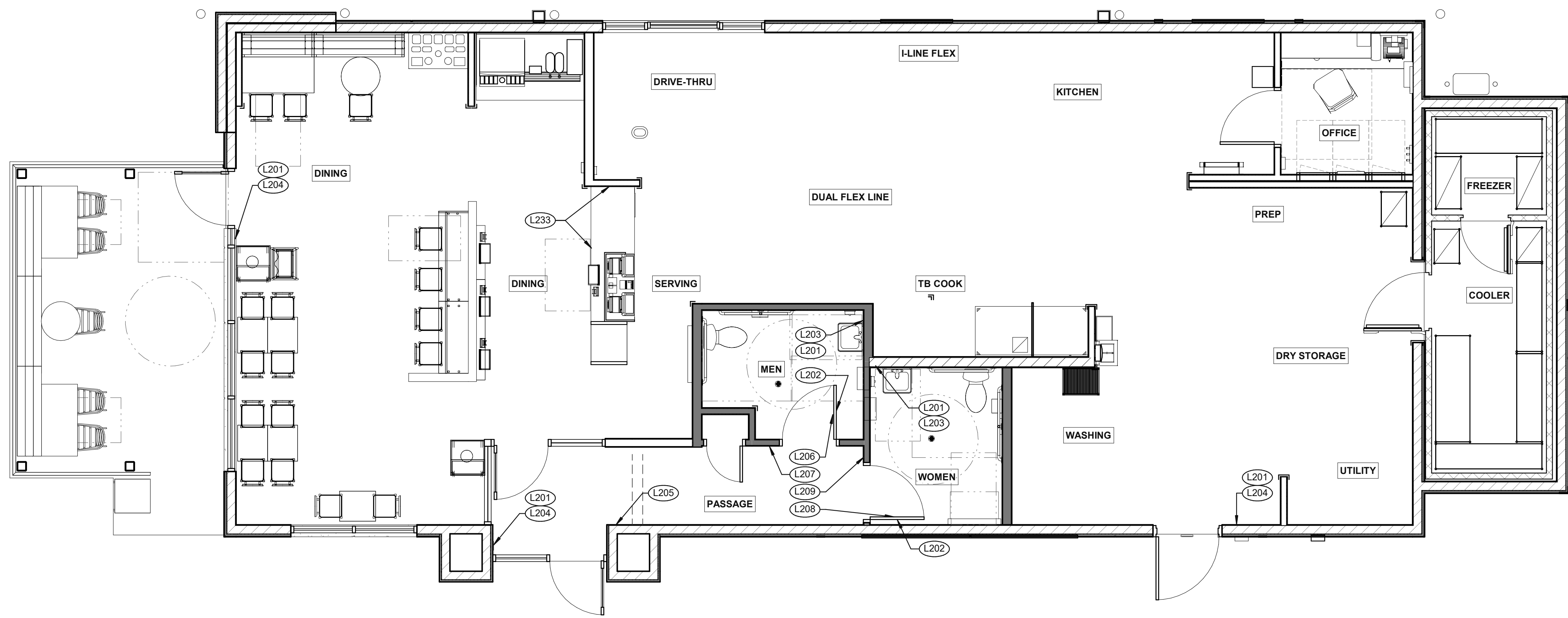


ENDEAVOR 2.0

TRASH ENCLOSURE DETAILS

G2.0

PLLOT DATE:



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

TAG	SIGN DESCRIPTION	SIGN VERBIAGE	SIZE	MOUNTING HEIGHT	QTY	LOCATION IN RESTAURANT
L201	Smoking	No Smoking or electronic cigarette use. This is a smoke free establishment	1/16 x 9 x 6	48" MIN. A.F.F. 60" MAX. A.F.F.	4	1 in each restroom, 1 at each door
L202	Clean Restroom	To our customers: We check our restrooms every 30 minutes to make sure they are always ready for you. If we have missed something, please tell our manager on duty. Thank you	1/16 x 6 x 9	60" A.F.F.	2	1 inside each restroom (back of restroom door)
L203	Hand Wash Notice	Employees must wash hands before returning to work	1/16 x 6 x 6	60" A.F.F.	2	1 inside each restroom near sink
L204	Exit (w/ Braille)	Exit	1/16 x 6 x 6	60" A.F.F.	4	1 at each exit, mounted on wall, according to ADA guidelines
L205	Occupancy	Maximum occupancy xxx persons	1/16 x 6 x 6	8'-0" to center of sign	1	Above customer exit. Only 1 is needed
L206	Men's Restroom Triangle (W/B)	INFOGRAPHIC of male	1/4 x 12 x 12	60" A.F.F.	1	Mounted on men's restroom door
L207	Men's Restroom (w/ Braille)	INFOGRAPHIC of male and braille to read: Men's restroom	1/4 x 10 x 6.5	60" A.F.F.	1	Mounted on wall next to restroom door. refer to plans and ADA guidelines for exact location
L208	Women's Restroom Circle (W/B)	INFOGRAPHIC of female	1/4 x 12 x 12	60" A.F.F.	1	Mounted on women's restroom door
L209	Women's Restroom (w/ Braille)	INFOGRAPHIC of female and braille to read: Women's restroom	1/4 x 10 x 6.5	60" A.F.F.	1	Mounted on wall next to restroom door. refer to plans and ADA guidelines for exact location
L233	If you need assistance? ADA	Please ask if you need assistance. And ADA infographic	1/16 x 3 x 6	60" A.F.F.	1	At front counter

DATE	REMARKS
07.21.21	Issued for Permit
03.11.22	Issued for Construction

CONTRACT DATE: 06.22.21
 BUILDING TYPE: END. MED20
 PLAN VERSION: MARCH 2021
 BRAND DESIGNER: DICKSON
 SITE NUMBER: 315089
 STORE NUMBER: 40164
 PA/PM: SM
 DRAWN BY.: RS
 JOB NO.: 2019088.31

TACO BELL
 18708 TELEGRAPH ROAD
 BROWNSTOWN, MI 48183



ENDEAVOR 2.0 SIGNAGE PLAN

G4.0

STANDARD REQUIRED SIGNAGE

3

NOT USED

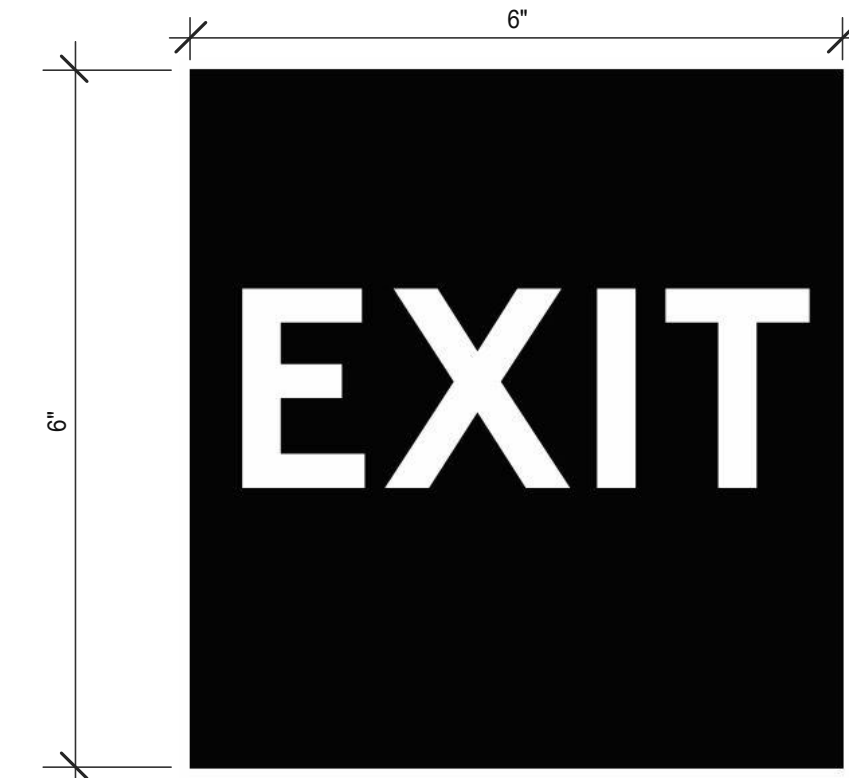
2



3 STREAM TRASH 1 - BIN LABELS (L220) **13**



WOMEN RESTROOM WHITE SIGN (L208) **9**



EXIT BRAILLE SIGN (L204) **5**



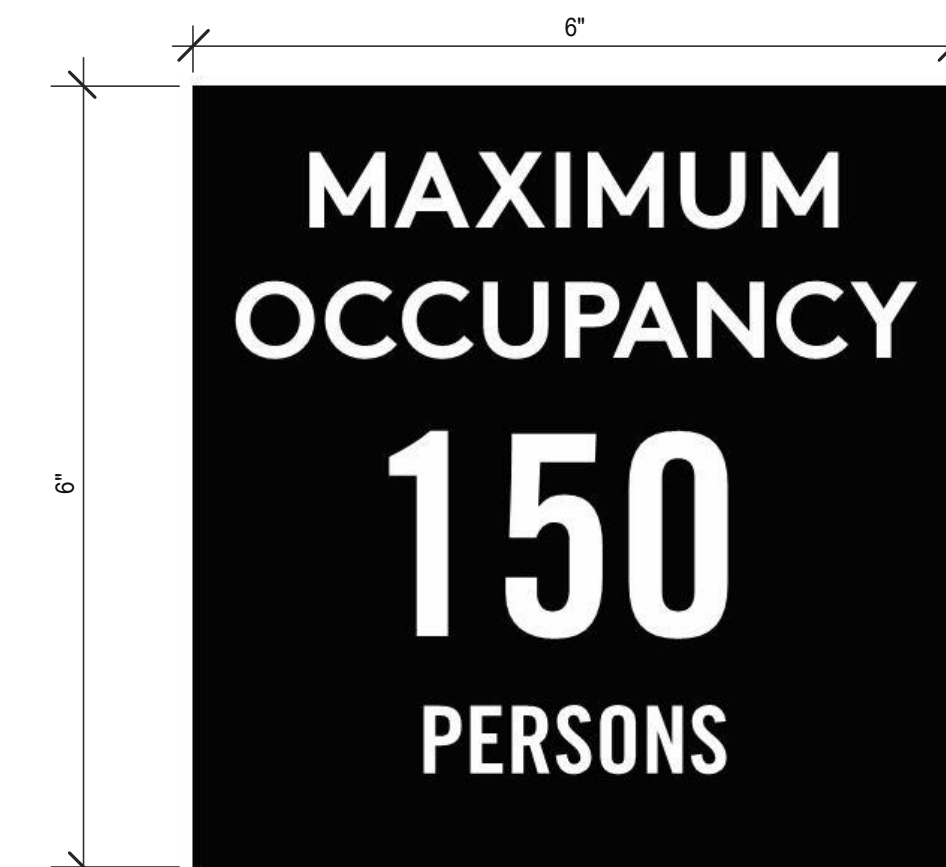
NO SMOKING SIGN (L201) **1**



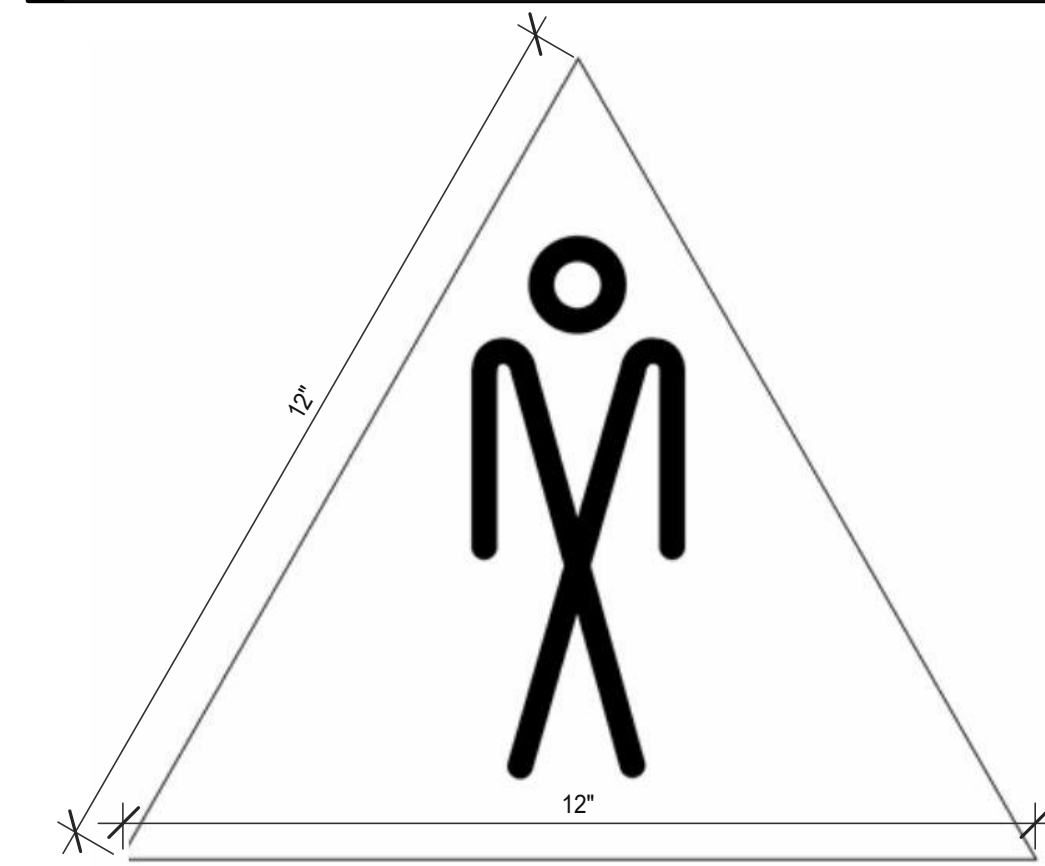
3 STREAM TRASH 2 - LABELS (L221) **14**



WOMEN RESTROOM BRAILLE SIGN (L209) **10**



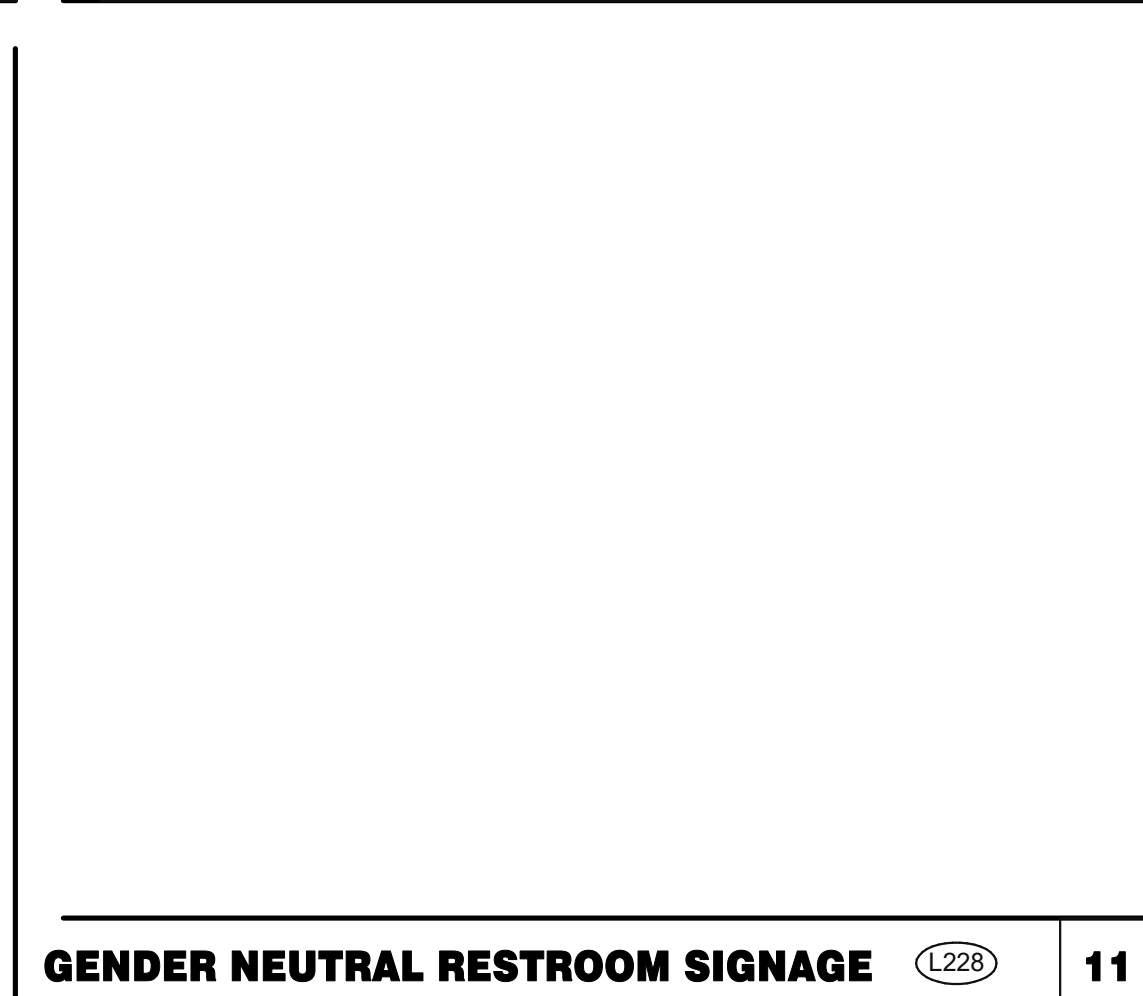
OCCUPANCY SIGN (L205) **6**



MEN RESTROOM WHITE SIGN (L206) **7**



CLEAN RESTROOM SIGN (L202) **3**



GENDER NEUTRAL RESTROOM SIGNAGE (L228) **11**



IF YOU NEED ASSISTANCE (L233) **12**



MEN RESTROOM BRAILLE SIGN (L207) **8**



HAND WASH NOTICE SIGN (L203) **4**

DATE	REMARKS
07.21.21	Issued for Permit
03.11.22	Issued for Construction

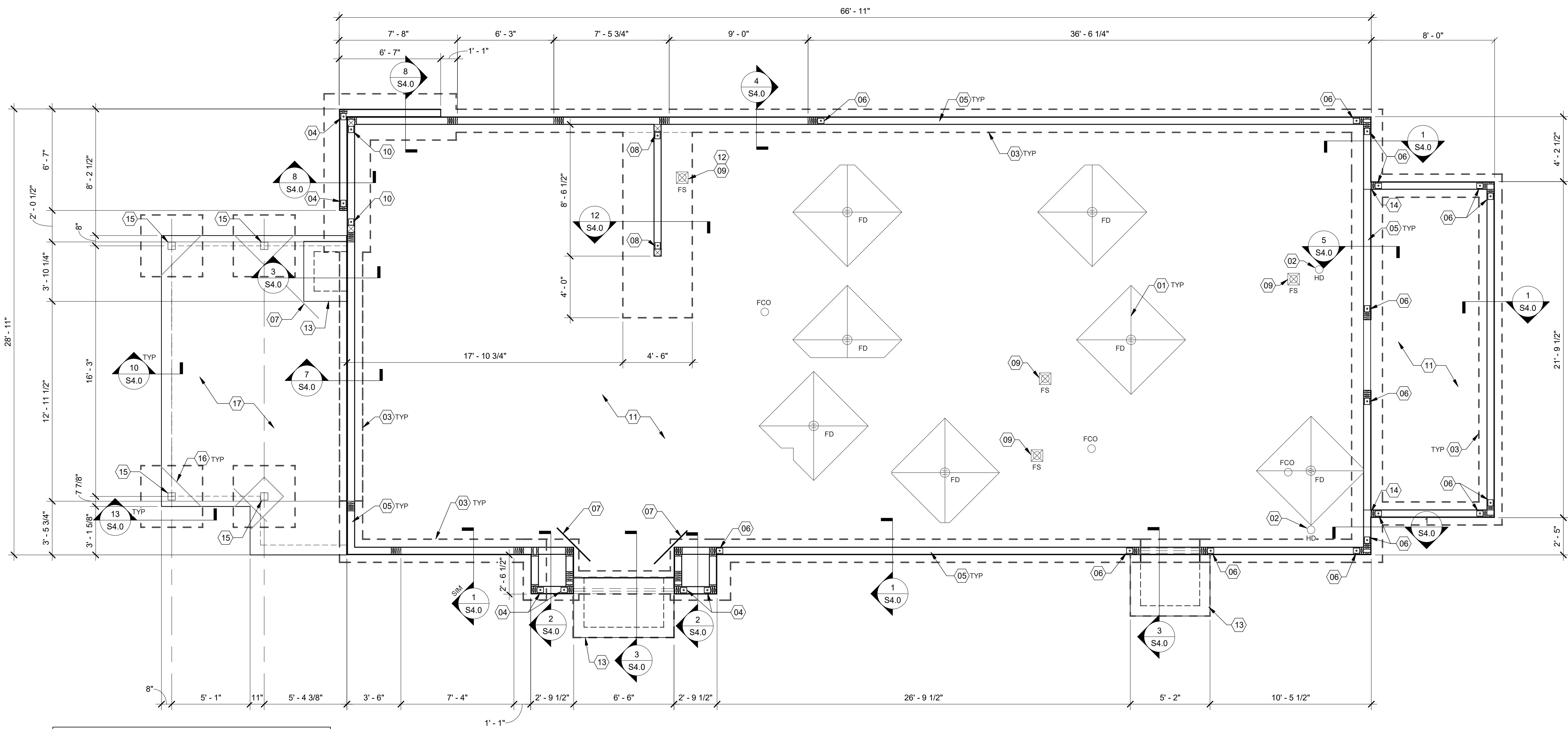
CONTRACT DATE: 06.22.21
BUILDING TYPE: END, MED20
PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 315089
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TACO BELL
18708 TELEGRAPH ROAD
BROWNSTOWN, MI 48183

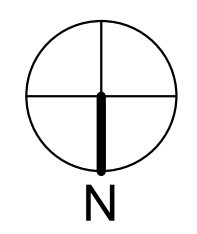


ENDEAVOR 2.0
**SIGNAGE
DETAILS**

G4.1
PLOT DATE: 3/9/2022 10:28:56 AM



NOTE:
WHERE OLD FILL, NATIVE SOILS CONTAINING ORGANICS OR OTHERWISE UNSUITABLE SOILS ARE EXPOSED FOLLOWING SITE STRIPPING AND EXCAVATION FOR FOUNDATIONS, THE UNSUITABLE SOIL SECTIONS SHOULD BE OVER-EXCAVATED IN THEIR ENTIRETY FROM BELOW THE PROPOSED BUILDING FOUNDATIONS AND FLOOR SLAB AND BE BACKFILLED TO THE FOUNDATION BEARING LEVEL WITH PROPERLY COMPACTED ENGINEERED FILL, WELL-GRADED GRANULAR MATERIALS OR LEAN CONCRETE. SEE THE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.



FOUNDATION PLAN 1/4" = 1'-0" A

DESIGN CRITERIA:

DESIGN CRITERIA: 2015 MICHIGAN BUILDING CODE (2015 IBC)	SEISMIC LOADS: RISK CATEGORY: II SEISMIC IMPORTANCE FACTOR: 1.0 SITE CLASS: D
ROOF SNOW LOADS: GROUND SNOW LOAD (Pg): 20 PSF EXPOSURE FACTOR (Ce): 1.0 IMPORTANCE FACTOR (I): 1.0 THERMAL FACTOR (Ct): 1.0 FLAT ROOF SNOW LOAD (Pf): 14 PSF MIN. ROOF SNOW LOAD (Pm): 20 PSF	MAPPED SPECTRAL RESPONSE ACCEL. SHORT PERIODS (SDS): 0.1026g S1: 0.0487g SPECTRAL RESPONSE COEFF.: 0.109g 1 SEC. PERIODS (SD1): 0.078g SEISMIC DESIGN CATEGORY: B
ROOF LOADS: LIVE LOAD: 20 PSF DEAD LOAD: 20 PSF	WOOD SHEARWALLS RESPONSE MOD FACTOR (R): 6.5 DESIGN BASE SHEAR (Cs): 0.0168W
WIND LOADS: 3 SECOND GUST: 115 MPH RISK CATEGORY: II EXPOSURE CATEGORY (MWFRS): C INTERNAL PRESSURE COEFF.: ±0.18	ANALYSIS BY SIMPLIFIED PROCEDURE

EFFECTIVE WIND AREA (SQ. FT.)	ROOF		WALL	
	CORNER ZONE (PSF)	END ZONE (PSF)	END ZONE (PSF)	INTERIOR ZONE (PSF)
≤10	+16.0/-72.7	+16.0/-48.3	+28.8/-38.6	+28.8/-31.2
20	+16.0/-60.2	+16.0/-43.2	+16.0/-28.0	+27.4/-35.9
50	+16.0/-43.6	+16.0/-36.4	+16.0/-27.1	+25.7/-32.5
100	+16.0/-31.2	+16.0/-31.2	+16.0/-26.3	+24.4/-29.8
>500	+16.0/-31.2	+16.0/-31.2	+16.0/-26.3	+24.4/-29.8

FOUNDATION NOTES - TYP U.N.O.:

FOUNDATION
A. FOUNDATION DESIGN IS BASED UPON THE GEOTECHNICAL ENGINEERING REPORT BY PSI, INC. DATED NOVEMBER 15, 2019 PROJECT NO. 0381157.
B. CONTRACTOR TO PROVIDE FOUNDATION & FOOTING AS REQUIRED FOR PYLON OR MONUMENTAL SIGN. SEE ELECTRICAL DRAWINGS FOR DETAIL.
C. COORDINATE STRUCTURAL PLANS AND DETAILS WITH REQUIREMENTS OF GEOTECHNICAL REPORT. FOUNDATION DESIGN IS BASED ON 2,500 PSF ALLOWABLE BEARING CAPACITY.
D. CONTRACTOR SHALL TREAT SOIL BELOW SLAB FOR TERMITES.
E. REFER TO THE GEOTECHNICAL REPORT FOR GENERAL REQUIREMENTS OF EARTHWORK, OVEREXCAVATION, SUBGRADE PREPARATION, FILL AND COMPACTION, WATERPROOFING AND OTHER PERTINENT REQUIREMENTS AND INFORMATION.
F. PROTECT PIPES AND CONDUITS RUNNING THROUGH WALLS AND SLABS WITH 1/2 INCH EXPANSION MATERIAL. LOWER CONTINUOUS FOOTINGS PERPENDICULAR TO PIPE RUNS TO ALLOW PIPES TO PASS ABOVE THE FOOTINGS. ALTERNATIVELY, PROVIDE A CONCRETE JACKET IF PIPES ARE LOW ENOUGH TO BE PLACED BELOW THE FOOTINGS AND GRADE BEAMS. LOWER FOOTINGS AND GRADE BEAMS PARALLEL TO PIPE RUNS TO AVOID SURCHARGE ONTO ADJACENT TRENCH EXCAVATIONS.
G. MAINTAIN SUBGRADE AND FILL MOISTURE CONTENT UNTIL FOUNDATIONS ARE PLACED.
H. ARRANGE FOR OWNER'S INDEPENDENT TESTING AGENCY TO MONITOR CUT AND FILL OPERATIONS AND PERFORM FIELD DENSITY AND MOISTURE CONTENT TESTS TO VERIFY COMPACTION AND APPROVE FOOTING SUBGRADES PRIOR TO PLACING CONCRETE.
I. DO NOT PLACE FOOTINGS OR SLABS AGAINST SUBGRADE CONTAINING FREE WATER, FROST, OR ICE.
J. MAINTAIN PROPER SITE DRAINAGE DURING CONSTRUCTION TO ENSURE SURFACE RUNOFF AWAY FROM STRUCTURES AND TO PREVENT PONDING OF SURFACE RUNOFF NEAR THE STRUCTURES.

CONCRETE:
CONCRETE SHALL BE HARD ROCK CONC. (5 SACK CEMENT PER CU. YD. MIN.) AND MEET THE FOLLOWING MIN. ULTIMATE COMPRESSIVE STRENGTHS AT 28 DAYS:
LOCATION MIN STRENGTH 28 DAY PSI AGGREGATE SIZE - INCHES SLUMP INCHES TOLERANCE
SLAB ON GRADE (4000 DESIGN) 1"x4" 3-1/2" ±1/2"
FOUNDATIONS (4000 DESIGN) 1"x4" 3-1/2" ±1/2"

CONCRETE (CONT.):
A. CONCRETE MIX DESIGN AND TESTING SHALL MEET WITH THESE SPECS. CEMENT SHALL BE IN ACCORDANCE WITH ASTM C 150 TYPE I. VERIFY MIN. CONC. STRENGTH AND CEMENT TYPE.
B. REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60. STEEL SHALL BE KEPT CLEAN AND FREE OF RUST.
C. CONCRETE CURING SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF ACI-318-14 SECTION 5.11 AND STANDARD PRACTICE FOR CURING CONCRETE REPORTED BY COMMITTEE 308.
D. ANCHOR BOLTS - A36 OR A307. ANCHOR BOLTS SHALL BE TIED IN PLACE PRIOR TO PLACEMENT OF CONCRETE. SEE SCHEDULE FOR REQUIREMENTS.
E. TO RESIST FREEZE - THAW DEGRADATION W/C RATIO SHALL NOT EXCEED .50 FOR CONCRETE IN CONTACT WITH SOILS.
F. TOTAL AIR CONTENT TO BE 6% ± 1%.

SLAB:
A. DESIGN IS BASED UPON 4" THICK CONCRETE SLAB REINFORCED WITH WWF 6x6-W2.9xW2.9 OVER 10 MIL VISQUEEN MEMBRANE, OVER 4" AGGREGATE BASE, OVER ENGINEERED SUBGRADE.

MISCELLANEOUS:
A. DIMENSIONS NOTED ARE TO FACE OF CONCRETE. REFER TO DWG. A1.0 FOR DIMENSIONS TO FACE OF STUD AND OTHER DIMENSIONS NOT OTHERWISE NOTED.
B. DRAWINGS SHALL NOT BE SCALED. ALL DIMENSIONS AND FIT SHALL BE DETERMINED AND VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORK.
C. DETAILS NOT FULLY OR SPECIFICALLY SHOWN SHALL BE OF SAME NATURE AS OTHER SIMILAR CONDITIONS.
D. SEE PLUMB. DWGS. FOR PLUMB. LAYOUT DIMENSIONS, U.O.N.
E. SEE ELECT. DWGS. FOR ELECT. LAYOUT DIMENSIONS, U.O.N.
F. COORD. FOUNDATION AND SLAB LAYOUT WITH OTHER TRADES PRIOR TO PLACING SLAB.

SPECIAL INSPECTIONS:
SPECIAL INSPECTIONS ARE TO BE PROVIDED IN ACCORDANCE WITH SECTION 1704. SPECIAL INSPECTIONS SHALL BE IN ADDITION TO THE INSPECTIONS CONDUCTED BY THE DEPARTMENT OF BUILDING SAFETY AND SHALL NOT BE CONSTRUED TO RELIEVE THE OWNER OR THEIR AUTHORIZED AGENT FROM REQUESTING THE PERIODIC AND CALLED INSPECTIONS REQUIRED BY THE BUILDING CODE. SPECIAL INSPECTION SHALL BE PAID BY THE OWNER.

REQUIRED SPECIAL INSPECTIONS:
IN ADDITION TO THE REGULAR INSPECTIONS, THE FOLLOWING ITEMS WILL ALSO REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH THE BUILDING CODE.
A. SOILS COMPLIANCE PRIOR TO FOUNDATION INSPECTION (COMPACTING FILL, SPECIAL GRADING)
B. STRUCTURAL CONCRETE OVER 2,500 PSI

SPECIAL INSPECTOR SHALL MEET THE QUALIFICATIONS AS STATED IN THE BUILDING CODE AND SHALL PERFORM THE DUTIES AND RESPONSIBILITIES AS OUTLINED IN THE BUILDING CODE. THE SPECIAL INSPECTOR SHALL PROVIDE INSPECTION REPORTS TO THE CODE OFFICIAL, ENGINEER AND OWNER.

(01) SLAB SHALL BE PITCHED 1/2" FOR 5'-0" x 5'-0" SQUARE AT ALL FLOOR DRAINS U.O.N. REFER TO PLUMBING DRAWINGS FOR LOCATIONS.
(02) PROVIDE HUB DRAIN (HD) UNLESS REQUIRED BY LOCAL CODE TO HAVE FLOOR SINK (FS).
(03) INDICATES INSIDE SURFACE OF FOOTING. SEE SHEET S4.0.
(04) HTTS HOLDOWN ANCHOR. SEE 6/S4.0 FOR HOLDOWN EMBEDMENT DETAIL.
(05) ANCHOR BOLTS LOCATED THROUGHOUT PERIMETER OF BUILDING SHALL BE PROVIDED AS REQUIRED PER THE "PLATE/ANCHOR BOLT" COLUMN OF THE "WALL SHEATHING AND SHEARWALL SCHEDULE." SEE D/SZ.0.
(06) HDUS HOLDOWN ANCHOR AT EACH END OF SHEARWALL. SEE 6/S4.0 FOR HOLDOWN EMBEDMENT DETAIL.
(07) (2) #4x3'-0" LG. RE-ENTRANT BARS (CENTERED IN SLAB) AT ALL RE-ENTRANT CORNERS.
(08) HD19 HOLDOWN ANCHOR AT EACH END OF SHEARWALL. SEE 6/S4.0 FOR HOLDOWN EMBEDMENT DETAIL.
(09) FLOOR SINK REFER TO PLUMBING DRAWINGS FOR LOCATION.
(10) HD12 HOLDOWN ANCHOR AT EACH END OF FRONT SHEARWALL. SEE 6/S4.0 FOR HOLDOWN EMBEDMENT DETAIL. ENTRANT CORNERS.

(11) 4" CONCRETE SLAB - SEE FOUNDATION PLAN NOTES D/S1.0. MODIFY BASE MATERIAL AS REQUIRED BY GEOTECHNICAL ENGINEER. PROVIDE BOND BREAKER BETWEEN SLAB AND BUILDING FOUNDATIONS.
(12) FORM FOOTING TO ACCOMMODATE FLOOR SINK AND DRAIN LINE INSTALLATION.
(13) FROST SLAB - SEE CIVIL PLANS FOR TOP OF CONCRETE ELEVATION.
(14) SHEAR WALL SHEATHING SHALL BE CONTINUOUS AT COOLER WALL INTERSECTION.
(15) HSS6x6x3/16 COLUMN.
(16) SLAB ISOLATION JOINT AT CANOPY COLUMNS. TYPICAL.
(17) 4" EXTERIOR CONCRETE SLAB REINFORCED WITH 4x4-W2.9xW2.9 W.W.F. OVER 4" COMPACTED GRANULAR FILL OVER COMPACTED SUBGRADE. SEE SLAB NOTES THIS SHEET FOR ADDITIONAL INFORMATION. REFER TO CIVIL PLAN FOR EXTENTS OF SLAB.

DATE	REMARKS
1 09.17.21	Health Comments
03.11.22	Issued for Construction

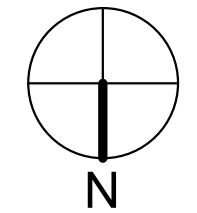
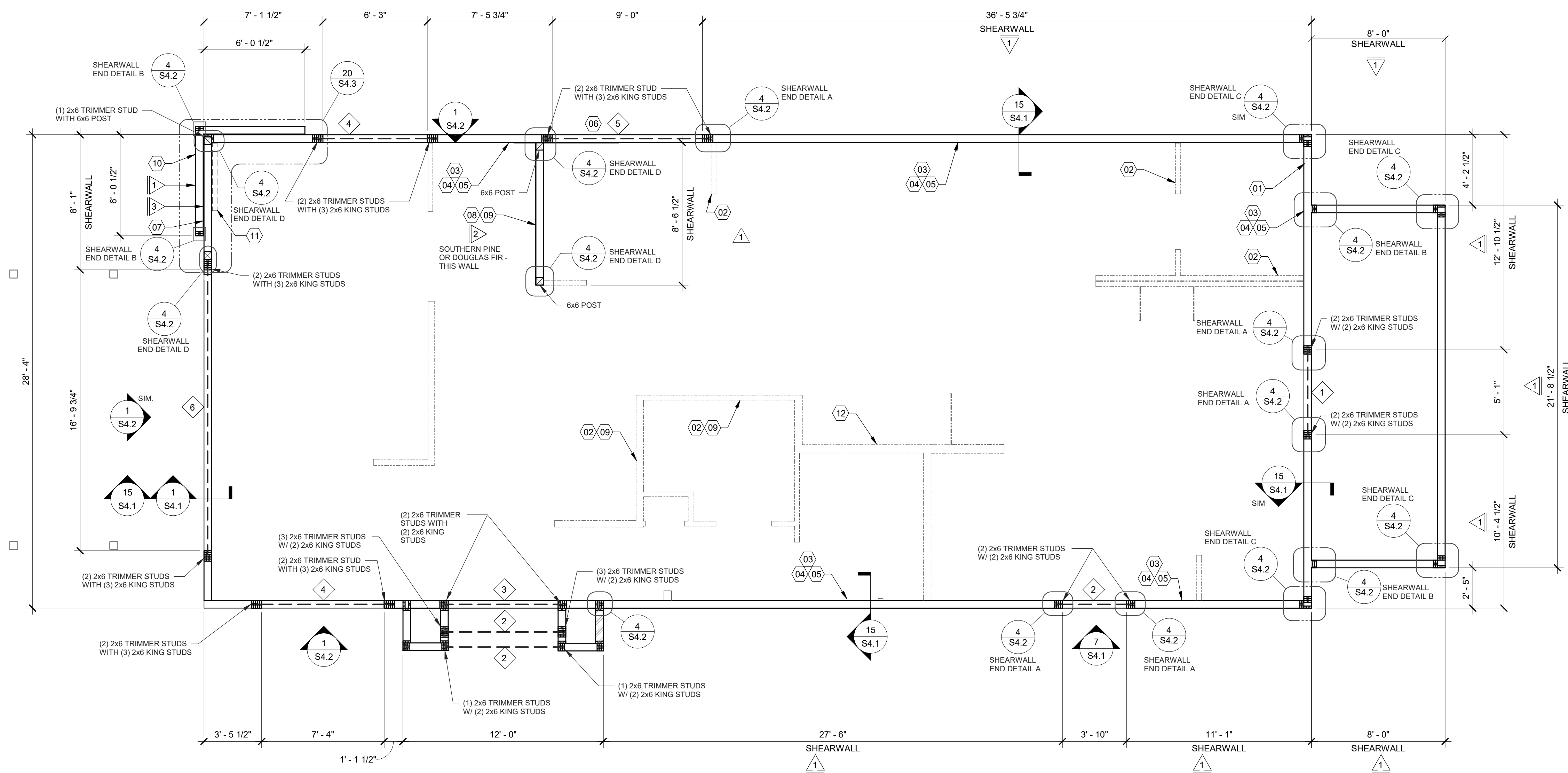
CONTRACT DATE: 06.22.21
BUILDING TYPE: END, MED20
PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 315089
STORE NUMBER: 40164
PA/PM: SM
DRAWN BY.: RB
JOB NO.: 2019088.31

TACO BELL
18708 TELEGRAPH ROAD
BROWNSTOWN, MI 48183



ENDEAVOR 2.0
FOUNDATION
PLAN

S1.0
PLOT DATE: 3/9/2022 10:20:46 AM



WALL FRAMING PLAN 1/4" = 1'-0" A

DATE	REMARKS
09.17.21	Health Comments
03.11.22	Issued for Construction

CONTRACT DATE: 06.22.21
BUILDING TYPE: END, MED20
PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 315089
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DRAWN BY: RB
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TACO BELL

18708 TELEGRAPH ROAD
BROWNSTOWN, MI 48183



ENDEAVOR 2.0 WALL FRAMING PLAN

S2.0

PLOT DATE: 3/9/2022 10:20:48 AM

HEADER SCHEDULE		
MARK	BUILT-UP SECTION	BUILT-UP MANUF. MEMBER
1	(3) 2x8	--
2	(3) 2x10	--
3	(3) 2x12	--
4	--	5 1/4" x 9 1/4" PSL
5	--	5 1/4" x 11 1/4" PSL
6	--	5 1/4" x 14" PSL

NOTES:
1. BUILT-UP HEADER SECTION SHALL HAVE 1/2" PLYWOOD SANDWICHED PIECES. REF. 14/S4.1
2. PSL BEAMS TO HAVE FOLLOWING MIN. PROPERTIES:
F_b = 2900 PSI
F_c = 750 PSI
F_v = 290 PSI
E = 2000 KSI

WALL SHEATHING AND SHEARWALL SCHEDULE					
SW	SHEATHING	EDGE	FIELD	PLATE / ANCHOR BOLT	REMARKS
1	1/2" CDX PLYWD (32/16), PS1 RATING	10d @ 6" O.C.	10d @ 12" O.C.	5/8" DIA. F1554 (22x3) @ 32" O.C. W/ WASHER	PLYWOOD ON EXTERIOR FACE OF STUDS
2	1/2" CDX PLYWD (32/16), PS1 RATING	10d @ 4" O.C.	10d @ 12" O.C.	5/8" DIA. F1554 (18x3) @ 16" O.C. W/ WASHER	PLYWOOD ON BOTH SIDES OF STUDS
3	1/2" CDX PLYWD (32/16), PS1 RATING	10d @ 4" O.C.	10d @ 12" O.C.	5/8" DIA. F1554 (22x3) @ 16" O.C. W/ WASHER	PLYWOOD ON EXTERIOR FACE OF WALL
***	1/2" CDX PLYWD (32/16), PS1 RATING	10d @ 6" O.C.	10d @ 12" O.C.	5/8" DIA. F1554 (22x3) @ 48" O.C. W/ WASHER	NAILING AT HEADERS PER 14/S4.1

REQUIREMENTS FOR EXTERIOR NON-SHEARWALL WALLS

- OSB OF COMPARABLE THICKNESS MAY BE USED IN LIEU OF PLYWOOD WHEN APPROVED IN WRITING BY THE PROJECT ENGINEER AND THE LOCAL JURISDICTION OF COMPARABLE THICKNESS MAY BE USED IN LIEU OF PLYWOOD WHEN APPROVED IN WRITING BY THE PROJECT ENGINEER AND THE LOCAL JURISDICTION.
- BLOCK ALL UNSUPPORTED EDGES WITH 2x MATERIAL U.O.N. BLOCK EDGES WITH 3x MATERIAL WHERE 10d NAILING IS 3" O.C. OR LESS AND 8d NAILING IS 2" O.C. OR LESS. ALL UNSUPPORTED EDGES WITH 2x MATERIAL U.O.N. BLOCK EDGES WITH 3x MATERIAL WHERE 10d NAILING IS 3" O.C. OR LESS AND 8d NAILING IS 2" O.C. OR LESS.
- ALL PLYWOOD NAILS SHALL BE COMMON WIRE. SEE SPECIFICATIONS FOR OTHER NAIL REQUIREMENTS.
- EXTERIOR WALLS NOT DESIGNATED AS SHEARWALLS IN THE WALL FRAMING PLAN SHALL MEET REQUIREMENTS INDICATED FOR NON-SHEARWALL WALLS IN THE SCHEDULE ABOVE.
- SHEARWALL LENGTHS WHERE NOTED ARE MINIMUM. DO NOT LOCATE HOLD-DOWNS FROM THESE DIMENSIONS. SEE ARCH DWGS FOR ACTUAL WALL LENGTHS.
- HD REFERS TO SIMPSON STRONGTIE CO. HOLD-DOWNS. INSTALL PER 6/S4.0. POST WIDTH SHALL MATCH STUD WALL WIDTH. SEE FOUNDATION PLAN FOR OTHER REQ'S.
- EDGE NAIL WALL PLY TO STUDS OR POSTS WITH HOLD-DOWNS.
- WHERE PANELS ARE APPLIED TO BOTH FACES OF A WALL AND NAIL SPACING IS LESS THAN 8" O.C. ON EITHER SIDE, PANEL JOINTS SHALL BE OFFSET TO WALL ON DIFFERENT FRAMING MEMBERS OR FRAMING SHALL BE 3x OR THICKER AND NAILS ON EACH SIDE SHALL BE STAGGERED.

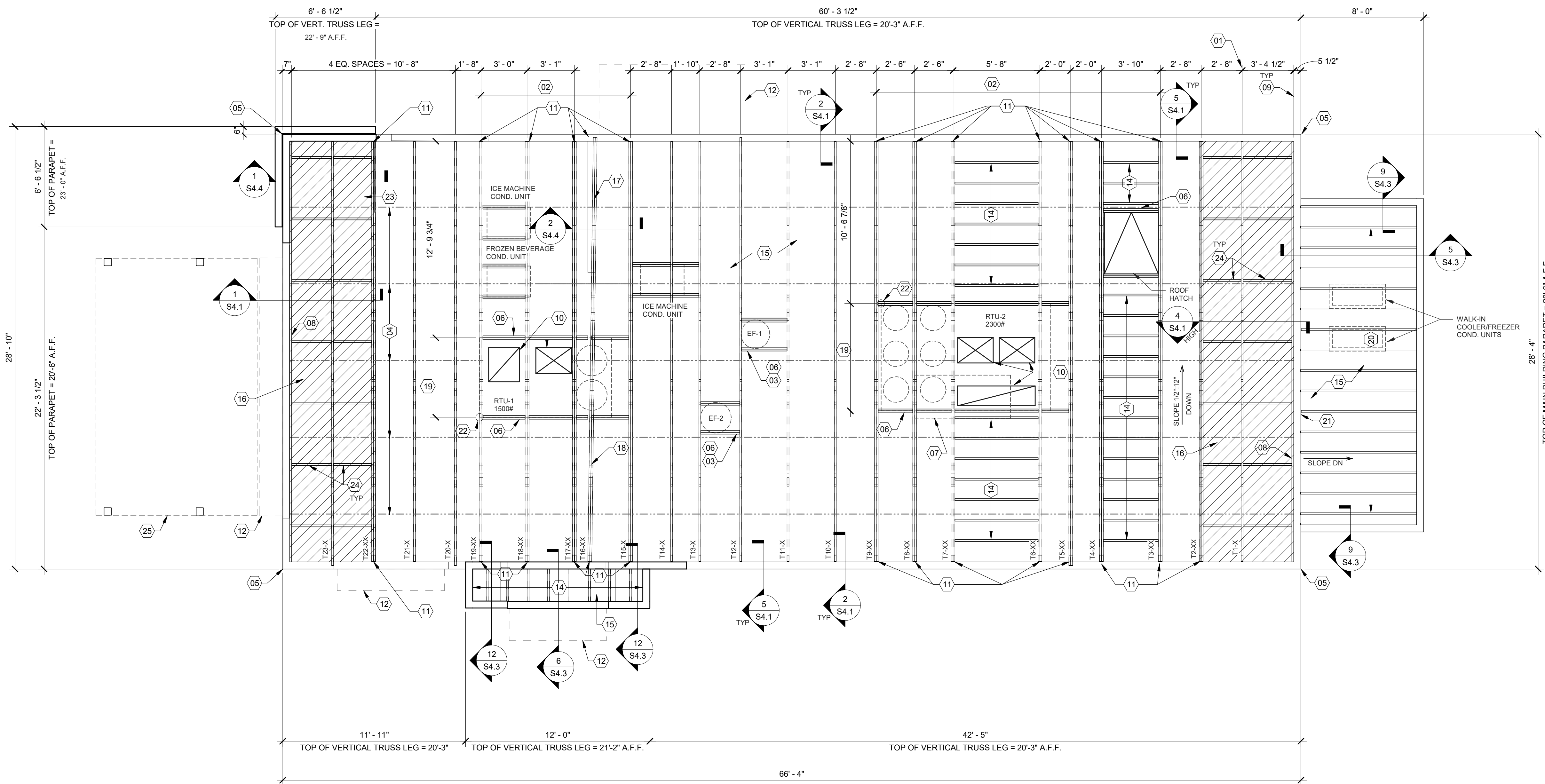
WALL FRAMING NOTES - TYP U.O.N.:

WALL FRAMING:
A. EXTERIOR WALL NON-BEARING & BEARING STUDS SHALL BE SOUTHERN PINE NO. 2. 6x6 POSTS TO BE SOUTHERN PINE NO. 2. INTERIOR WALL STUDS MAY BE STUD GRADE.
B. ALL BEAMS AND JOISTS SHALL BE SEAT CUT FOR FULL UNIFORM BEARING AT SUPPORTS. BEAM SEATS AND COLUMN CAPS.
C. SEE SHEET A1.0 FOR DIMENSIONS.
D. EXTERIOR STUD WALLS ARE 2x6 AT 16" O.C. U.O.N.
E. ALL WOOD IN CONTACT WITH CONC., STEEL OR GRADE SHALL BE PRESSURE TREATED.
F. ALL BOLTED OR NAILED STRAP CONNECTIONS SHALL HAVE AN EQUAL NUMBER OF BOLTS OR NAILS EACH SIDE OF THE SPLICE JOINT. THE FIRST BOLT OR NAIL FROM EACH SIDE OF THE SPLICED OR TREATED MEMBER SHALL BE EQUAL DISTANCE FROM THE SPLICE STRAPS USING 16d NAILS ON 2x MATERIAL SHALL BE INSTALLED ON THE 1-1/2" EDGE OF THE MEMBER.
G. THE CONTRACTOR SHALL VERIFY THAT THE MOISTURE CONTENT OF ALL FRAMING LUMBER AND PLYWOOD MEET THE REQUIREMENTS OF THE SPECS. AT THE TIME OF INSTALLATION AND AT CLOSE-IN.
H. USE PRESSURE TREATED LUMBER AT WINDOW JAMBS, SILL AND STUDS UNDER SILL AS WELL AS ALL TOILET PLUMBING WALLS.

STUD LAYOUT:
A. LAYOUT STUDS ON SIDEWALLS (LONG WALLS) STARTING AT REAR OF BUILDING TOWARDS FRONT.
B. LAYOUT STUDS ON ENDWALLS (SHORT WALLS) STARTING AT EACH END AND WORKING TOWARDS CENTER.

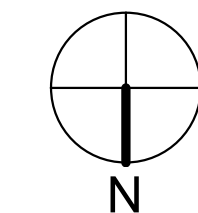
- 01 COORDINATE WITH ELECTRICAL POWER PLAN SHEET E3.0.
- 02 INTERIOR NON-BEARING STUD WALL FRAMING: REFER TO SHEET A1.0 FOR DIMENSIONS AND STUD SIZES. SEE DETAIL 10 & 11/S4.1 AND WALL FRAMING NOTES.
- 03 (2) 2x6 TOP PLATES - SPLICE PER 16/S4.1. U.O.N. REF. 11/S4.3 FOR PARAPET CAP DETAIL.
- 04 TOP OF TRUSS BEARING PLATE. SEE DETAIL 2/S4.1.
- 05 TOP OF PARAPET. SEE S3.0.
- 06 ENSURE ROUGH OPENING DIMENSION TO PROVIDE TOLERANCE FOR DRIVE THRU WINDOW INSTALLATION. COORDINATE WITH WINDOW MANUFACTURER.
- 07 EXTERIOR SHEATHING SHALL NOT BE INTERRUPTED WITH TOWER FRAMING - TYPICAL.
- 08 INTERIOR SHEAR WALL FRAMING FOR 2x6 STUDS, BLOCKING, & SILL PLATE SHALL BE SOUTHERN PINE OR DOUGLAS FIR AT THIS WALL. PROVIDE 6x6 POST AT EACH END OF WALL.
- 09 COORDINATE WITH PLUMBING ROUGH IN SHEET P4.0.
- 10 2x FRAMING ON THICKENED CONCRETE FOUNDATION / PIER; SEE SHEETS S1.0 AND S4.0. DIMENSIONS FOR FRAMING ARE TO FACE OF STUD.
- 11 2x4 FRAMING FOR ALCOVE. SEE ARCHITECTURAL.
- 12 COLD-FORMED STUD WALL (NON-LOAD BEARING STUD WALL). SEE ARCH.

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EXTREME CARE SHALL BE USED IN ERECTING ROOF TRUSSES - COMPLY WITH TPI BRACING REQUIREMENTS.

ROOF NOT DESIGNED FOR PONDING. SEE ARCHITECTURAL DRAWINGS FOR DRAIN REQUIREMENTS.



ROOF FRAMING PLAN 1/4" = 1'-0" A

ROOF NAILING SCHEDULE		
TYPE	NAILING / SHEATHING	REMARKS
BN	10d @ 6" O.C.	
EN	10d @ 6" O.C.	
FN	10d @ 12" O.C.	
ROOF SHEATHING	23/32" CDX PLYWOOD (48/24), PS1 RATING	

NOTES:
SEE 8/S4.2 FOR DEFINITIONS AND ROOF NAILING PLAN.
SEE 11/S4.2 FOR TYPICAL NAILING SCHEDULE.

ROOF FRAMING NOTES:

A. ALL UNSUPPORTED EDGES OF PLYWOOD SHEATHING SHALL BE SUPPORTED WITH SIMPSON PSCCL CLIPS. PROVIDE (2) CLIPS EQUALLY SPACED BETWEEN EACH TRUSS/SUPPORT. SEE DETAIL 9/S4.2. OSB OF COMPARABLE THICKNESS MAY BE USED IN LIEU OF PLYWOOD WHEN APPROVED IN WRITING BY THE PROJECT ENGINEER AND THE LOCAL JURISDICTION.

B. ALL MECHANICAL SUPPLY AND RETURN OPENINGS SHALL BE BETWEEN FRAMING U.O.N.

MANUFACTURED ROOF TRUSS NOTES:

A. MFR'D ROOF TRUSSES ARE AT 2'-8" O.C. U.O.N.

B. "T-F" DENOTES ROOF TRUSS TYPE. REFER TO SCHEDULE 7/S4.2

C. TRUSS DWGS ARE PROVIDED FOR CONCEPTUAL DESIGN ONLY. MFR. SHALL SUBMIT SHOP DWGS. AND CALCS. BOTH SIGNED BY A LICENSED STRUCTURAL ENGINEER (STATE OF MICHIGAN), SUBMIT SHOP DWGS. AND CALCS TO THE ARCHITECT AND ENGINEER FOR REVIEW AND SUBMITTAL AND, IF REQUIRED, TO BLDG OFFICIAL FOR APPROVAL PRIOR TO FABRICATION. SHOP DWGS SHALL INCLUDE LAYOUT PLAN AND CONNECTORS. CALCS SHALL BE BASED ON THE SPECIFIED LOADING CONDITIONS SHOWN HEREIN. MFR SHALL PROVIDE HANGERS AND CONNECTIONS BETWEEN TRUSSES. REVIEW AND APPROVE DIMENSIONS, SHAPES AND DETAILS SHOWN ON SHOP DWGS. PRIOR TO SUBMITTAL TO THE ARCHITECT/ENGINEER FOR REVIEW AND COMMENT.

D. TRUSS MFR SHALL PROVIDE HANGERS AND CONNECTORS ADEQUATE FOR LOADS. ROOF CONNECTORS ARE BASED UPON SIMPSON "STRONG TIE" OR APPROVED EQUAL.

E. TRUSS CHORDS AND PARAPET VERTICALS SHALL BE 2x6 MIN AND CONSISTENTLY SIZED THROUGHOUT PROJECT.

F. REFER TO TRUSS ELEVATIONS FOR SHAPE, OVERHANG, SLOPES, SPAN, ETC. LOCATION OF BEARING POINTS ARE AS INDICATED ON THE DRAWINGS. SEE 2/S4.2

G. MFR'D ROOF TRUSS DESIGN LOADS: SEE TRUSS DESIGN CRITERIA 3/S4.2

H. THE POSITIONS, WEIGHTS, AND METHODS OF ATTACHMENT OF ALL MECHANICAL UNITS, ELECT FIXTURES, PLUMBING, ETC. SHALL BE INCLUDED IN THE DESIGN OF THE TRUSSES BY THE TRUSS MFR.

I. DESIGN ROOF TRUSSES TO SUPPORT ALL IMPOSED LOADS, INCLUDING WIND & LATERAL LOADS. COORDINATE SIZE, LOCATION AND WEIGHT OF EQUIPMENT WITH MECHANICAL WORK. PROVIDE MULTIPLE TRUSSES WHERE ONE TRUSS CANNOT SUPPORT THE LOAD. PROVIDE BRIDGING BETWEEN TRUSSES AS SPECIFIED AS MINIMUM STANDARD.

J. INSTALLATION OF ALL TRUSSES SHALL BE DONE USING A SPREADER BAR WITH A THREE POINT VERTICAL PICK. CARE SHALL BE USED IN LIFTING TO PREVENT HORIZONTAL BENDING.

K. IMPROPER HANDLING OF THE TRUSSES AS NOTED ABOVE AND IN THE SPECS SHALL MEAN REMOVAL OF THE TRUSSES FROM THE JOBSITE AND REPLACEMENT AT CONTRACTOR'S EXPENSE.

L. SEE DIV. 6 OF THE SPECS FOR DETAILS ON TRUSS MANUFACTURING AND NAILING.

DELEGATED DESIGN NOTE:

ALL DEFERRED SUBMITTALS SHALL CONTAIN SHOP DRAWING PLANS AND DESIGN CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED (OTHER THAN THE ENGINEER OF RECORD) IN THE STATE OF MICHIGAN. THE DEFERRED SUBMITTALS SHALL BE SUBMITTED TO ENGINEER OF RECORD FOR REVIEW OF GENERAL CONFORMANCE WITH THE BUILDING DESIGN PRIOR TO CONSTRUCTION, FABRICATION, AND/OR ORDERING OF MATERIALS. ENGINEER OF RECORD APPROVED DEFERRED SUBMITTALS SHALL BE REVIEWED AND APPROVED BY THE LOCAL BUILDING OFFICIALS PRIOR TO INSTALLATION. THE FOLLOWING ITEMS SHALL BE SUBMITTED PER THIS SECTION (REFER TO PLANS FOR ADDITIONAL INFORMATION):

- AWNING & CANOPY
- MANUFACTURED WOOD ROOF TRUSSES
- SHORING

- 01 STARTING POINT OF TRUSS LAYOUT.
- 02 VERIFY NECESSITY OF DOUBLE TRUSSES WITH TRUSS MFR. DUE TO POINT LOADING AND ADDITIONAL UNIFORM LOADING, TYPICAL.
- 03 COORDINATE BLOCKING WITH EXHAUST AND SUPPLY DUCT.
- 04 CONT 2x4 WD BRIDGING ON TOP OF BOTTOM CHORD. ADJUST AS REQUIRED FOR DUCT PLENUMS. MAX SPACING AT 7'-0" O.C. OR TIGHTER SPACING AS REQUIRED BY TRUSS DESIGN. SEE 8 & 9/S4.1 FOR BRIDGING LAP DETAIL.
- 05 SIMPSON MSTA 24 AT CORNER DBL TOP PLATE. CENTER STRAP ON CORNER.
- 06 (2) 2x6 BLOCKING W/ U26-2 HANGERS. TYP. AT EDGES OF ALL ROOF TOP EQUIPMENT AND ALL ROOF OPENINGS - SEE DET. 6 & 10/S4.2
- 07 LOC. OF HOOD. SEE HOOD DRAWINGS FOR HOOD ATTACHMENT DETAIL 13/S4.1.
- 08 (2) 2x6 LEDGER REF. 6/S4.1.
- 09 DIMENSION IS FROM INSIDE FACE OF WALL FRAMING.
- 10 HVAC ROOF OPENING FOR DUCT. VERIFY SIZE WITH HVAC MFR. & MECHANICAL DWGS.
- 11 (2) 2x6 BUILT-UP COLUMN AT TRUSS BEARING, TYP. AT GIRDER. TRUSS ONLY. REF. DETAIL 12/S4.2.
- 12 CANOPY- SEE ARCH. DWGS.
- 13 CANOPY FRAMING AND COLUMNS PER CANOPY MANUFACTURER. CANOPY SUPPLIER SHALL COORDINATE LOCATION WITH ARCH. PLANS. SEE S1.0 FOR ADD'L INFO.
- 14 2x6 @ 16" O.C. WITH SIMPSON LUS26 HANGER EA. END.

- 15 PLYWOOD ROOF SHEATHING. SEE NAILING SCHEDULE, THIS SHEET.
- 16 HATCH DENOTES LOCATION OF KICKERS. SEE 1/S4.4 FOR ADDITIONAL INFORMATION REGARDING KICKERS.
- 17 INTERIOR SHEAR WALL BELOW. ALIGN DINING SIDE OF WALL WITH SIDE OF TRUSS. SEE DETL. 2/S4.4.
- 18 DRAG TRUSS AT INTERIOR SHEAR WALL. PROVIDE DOUBLE TRUSS. DESIGN DRAG TRUSS FOR 437 PLF (ASD, 0.6"W) ALONG TOP CHORD OF TRUSS (11,981 LBS TOTAL). ATTACH ROOF SHEATHING TO DRAG TRUSS WITH 10d NAILS @ 3" O.C. ALONG ENTIRE LENGTH OF TRUSS.
- 19 SEE MECHANICAL DRAWINGS FOR SIZE OF SELECTED RTU OPTION.
- 20 2x10 @ 16" O.C. WITH SIMPSON LUS26 HANGER EA. END. PROVIDE CONT. BLOCKING BETWEEN 2x's AT MIDSPAN.
- 21 (2) 2x6 BLOCKING W/ U26-2 HANGERS EACH END AT 24" O.C. BELOW KICKERS.
- 22 RTU LOCATION POINT.
- 23 (2) 2x6 BLOCKING W/ U26-2 HANGERS EACH END AT 24" O.C. BELOW KICKERS.
- 24 2x BLOCKING AT BRACES. SEE 1 & 4/S4.1
- 25 OUTLINE OF CANOPY FRAMING. SEE CANOPY FRAMING PLAN ON SHEET S4.5 FOR CANOPY ROOF FRAMING.

ROOF NAILING SCHEDULE D

ROOF FRAMING NOTES C

ROOF FRAMING KEYNOTES B

DATE	REMARKS
1 09.17.21	Health Comments
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CONTRACT DATE: 06.22.21
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BRAND DESIGNER: DICKSON
SITE NUMBER: 315089
STORE NUMBER: 40164
PA/PM: SM
DRAWN BY.: RB
JOB NO.: 2019088.31

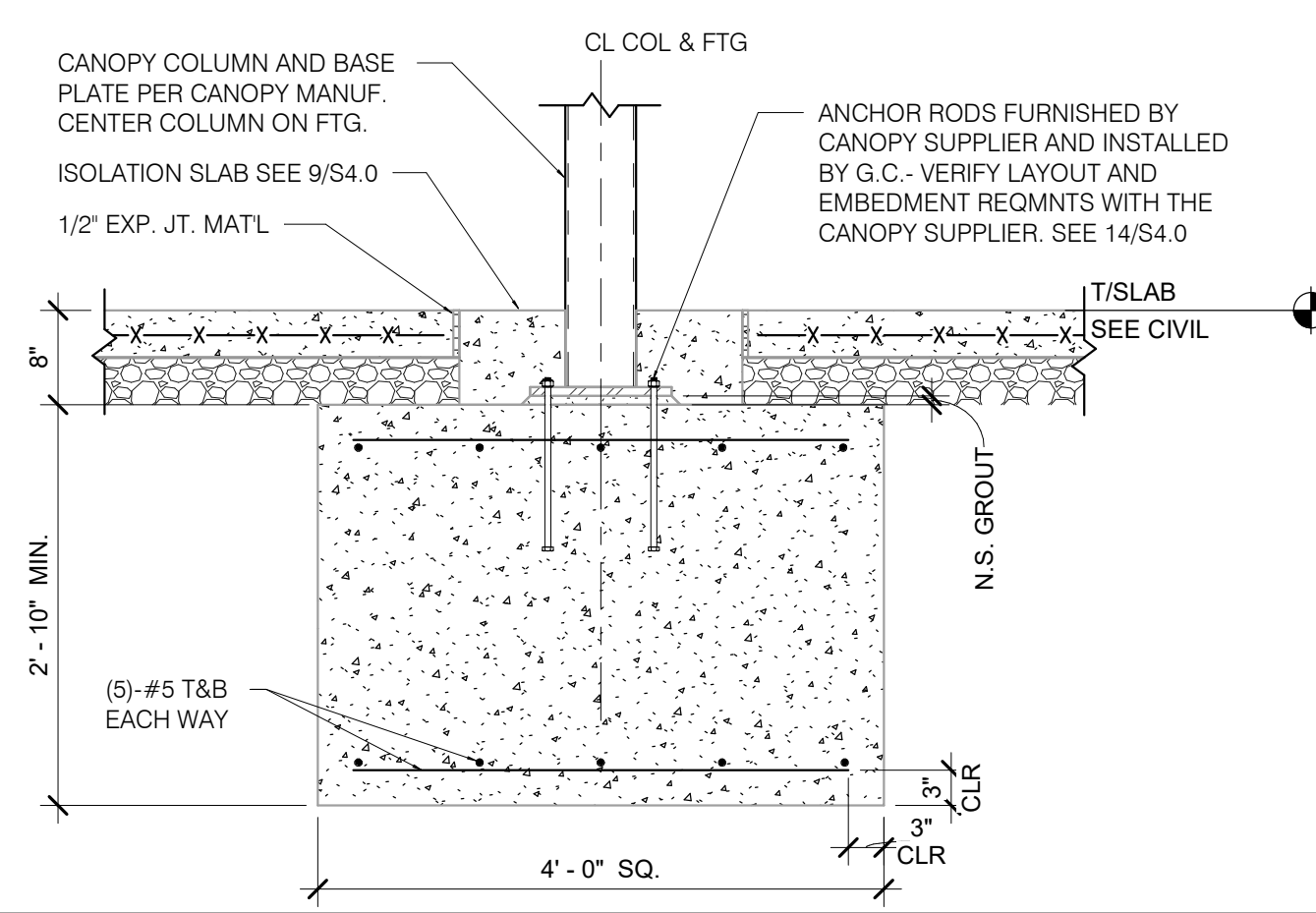
TACO BELL

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BROWNSTOWN, MI 48183

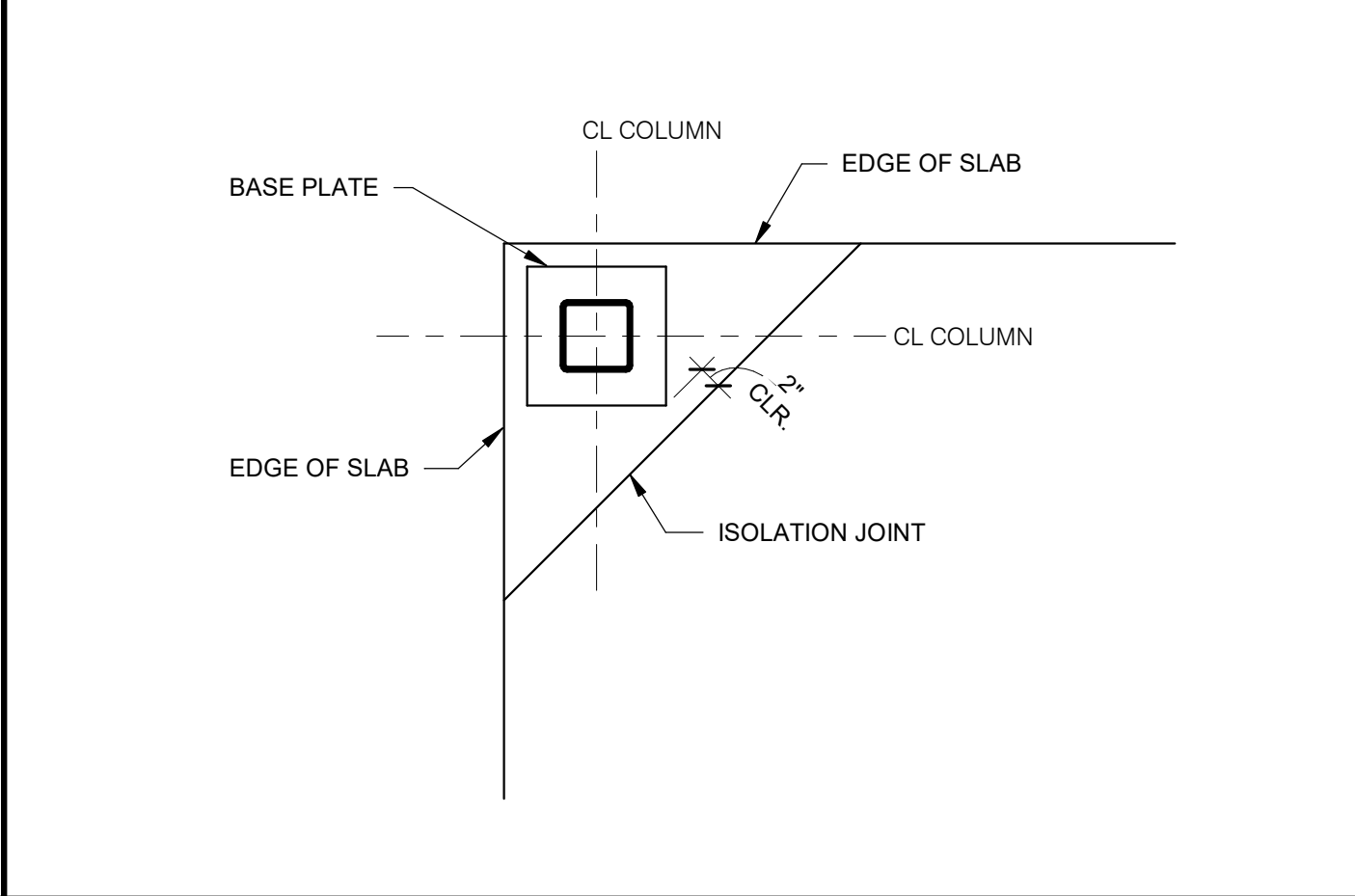


**ENDEAVOR 2.0
ROOF FRAMING
PLAN**

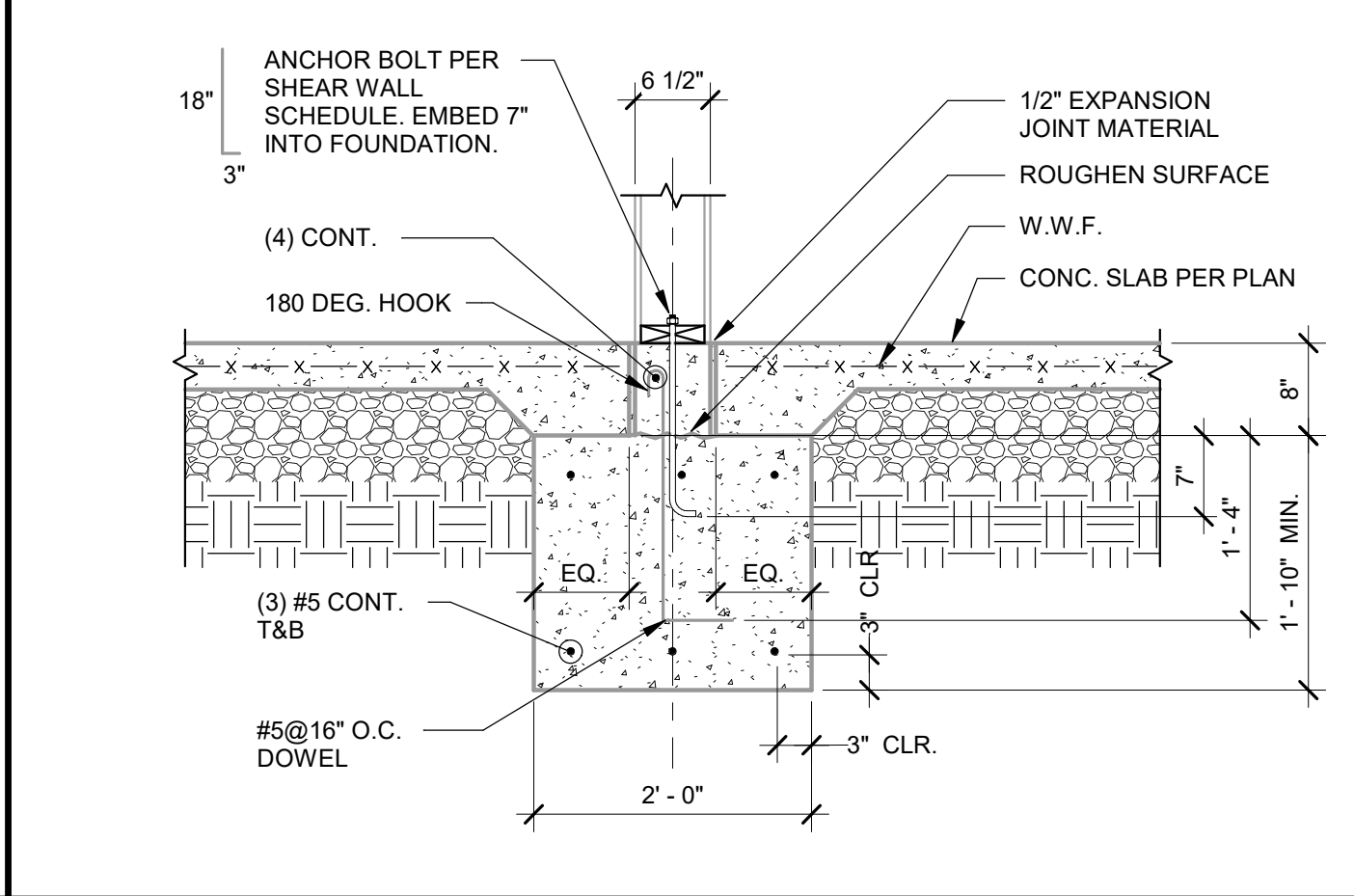
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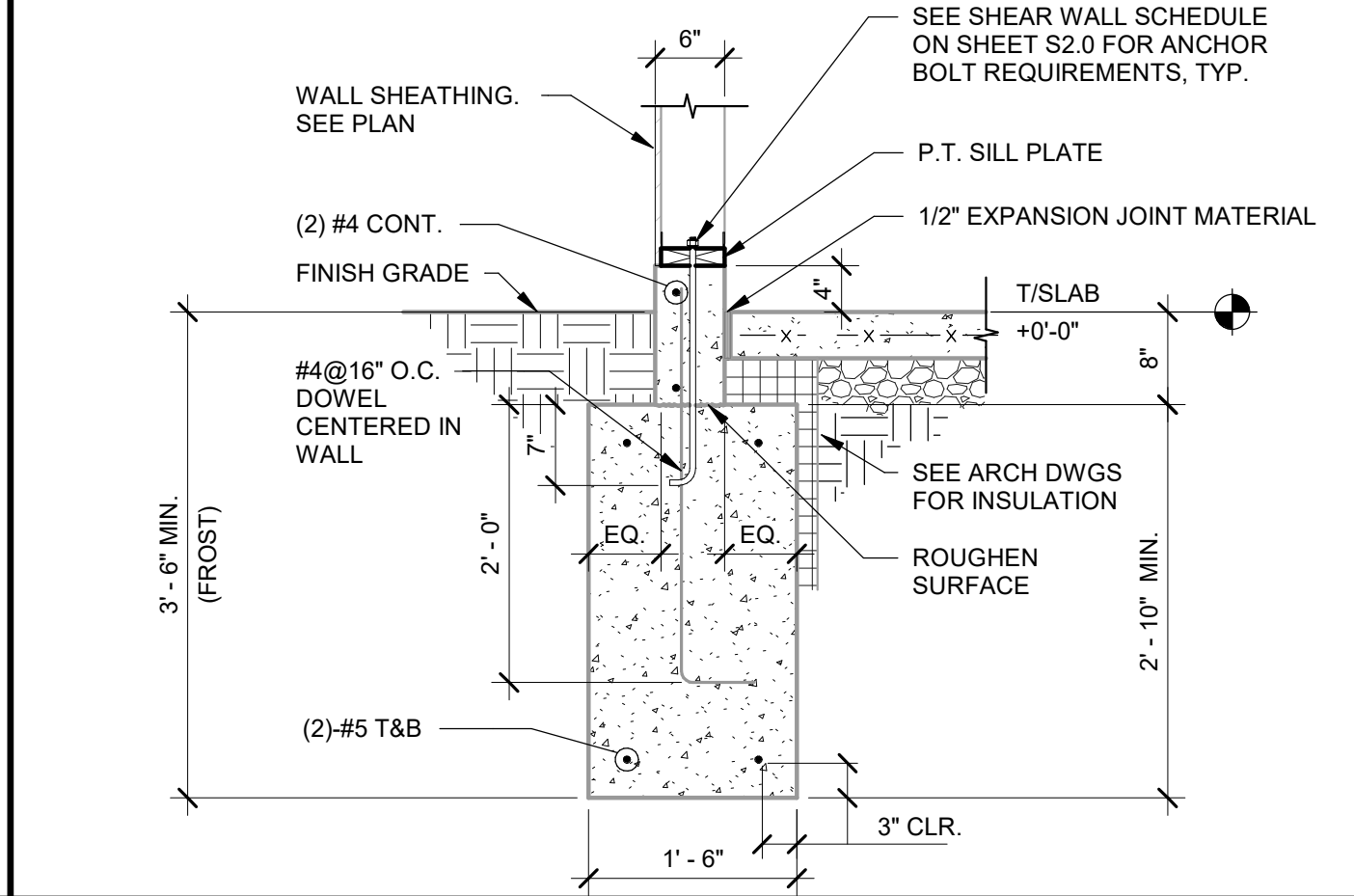
CANOPY COL. FTG. DETAIL 3/4" = 1'-0" **13**



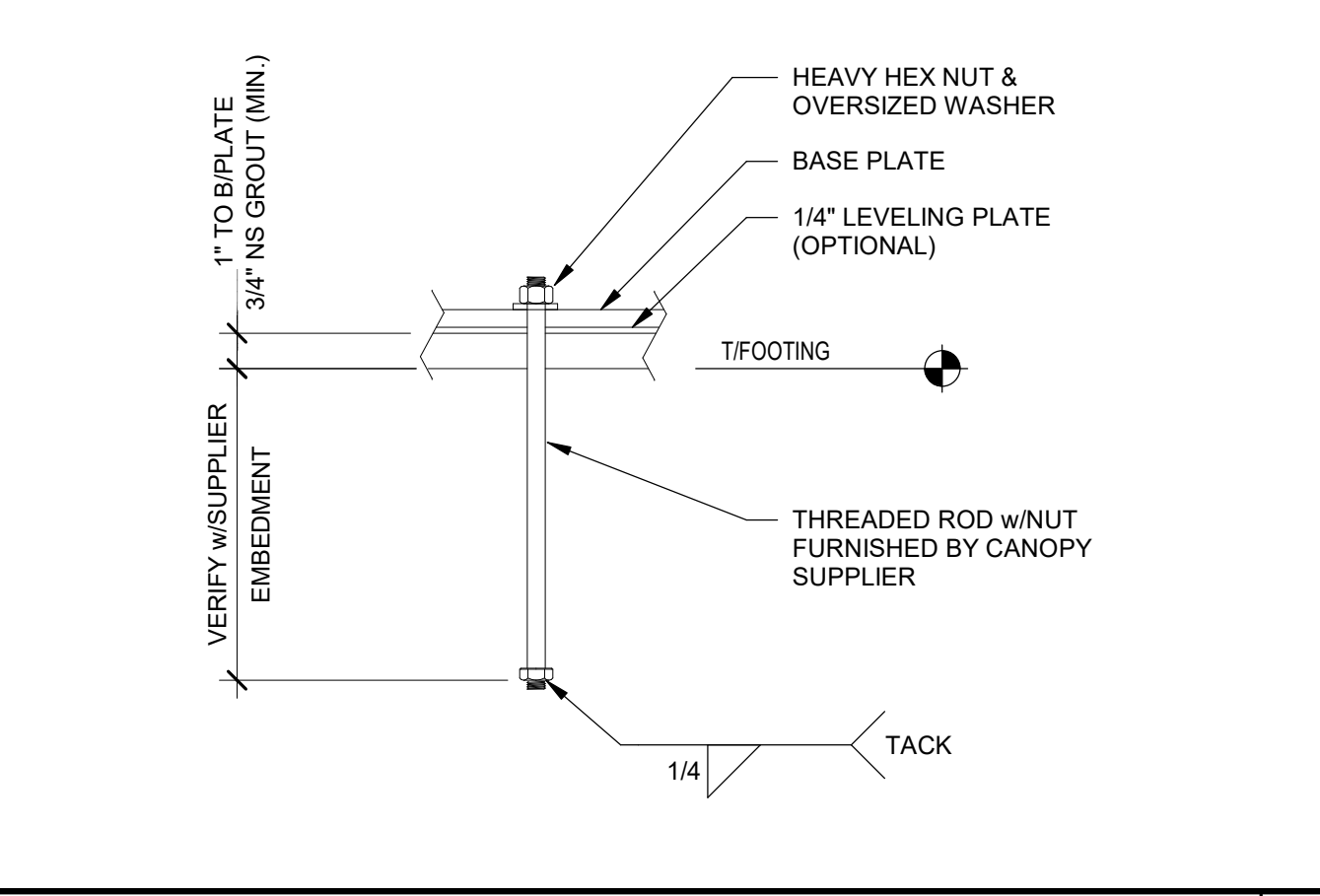
TYP. ISOLATION JOINT AT CORNERS 3/4" = 1'-0" **9**



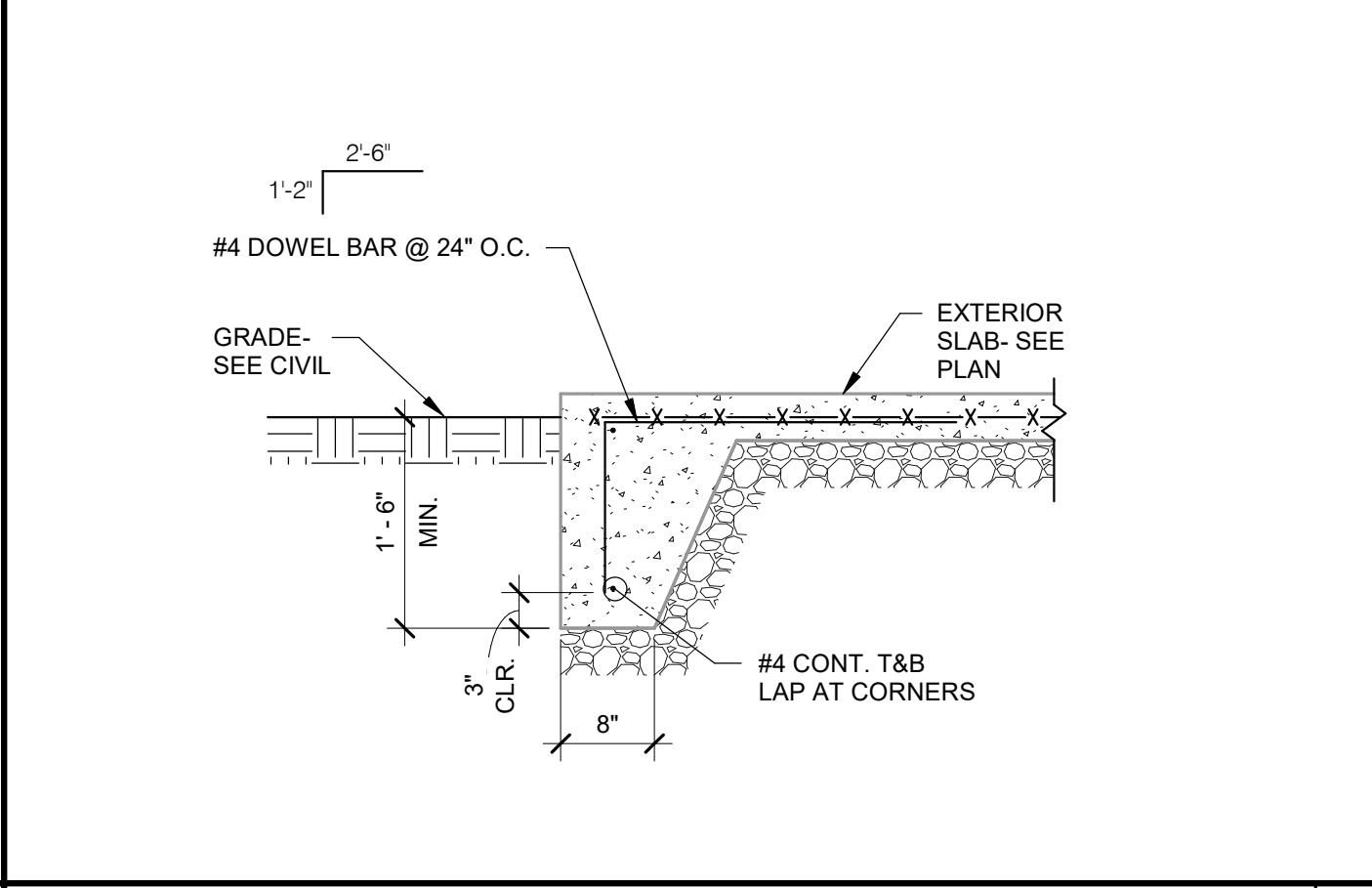
INTERIOR FOOTING AT COOLER 3/4" = 1'-0" **5**



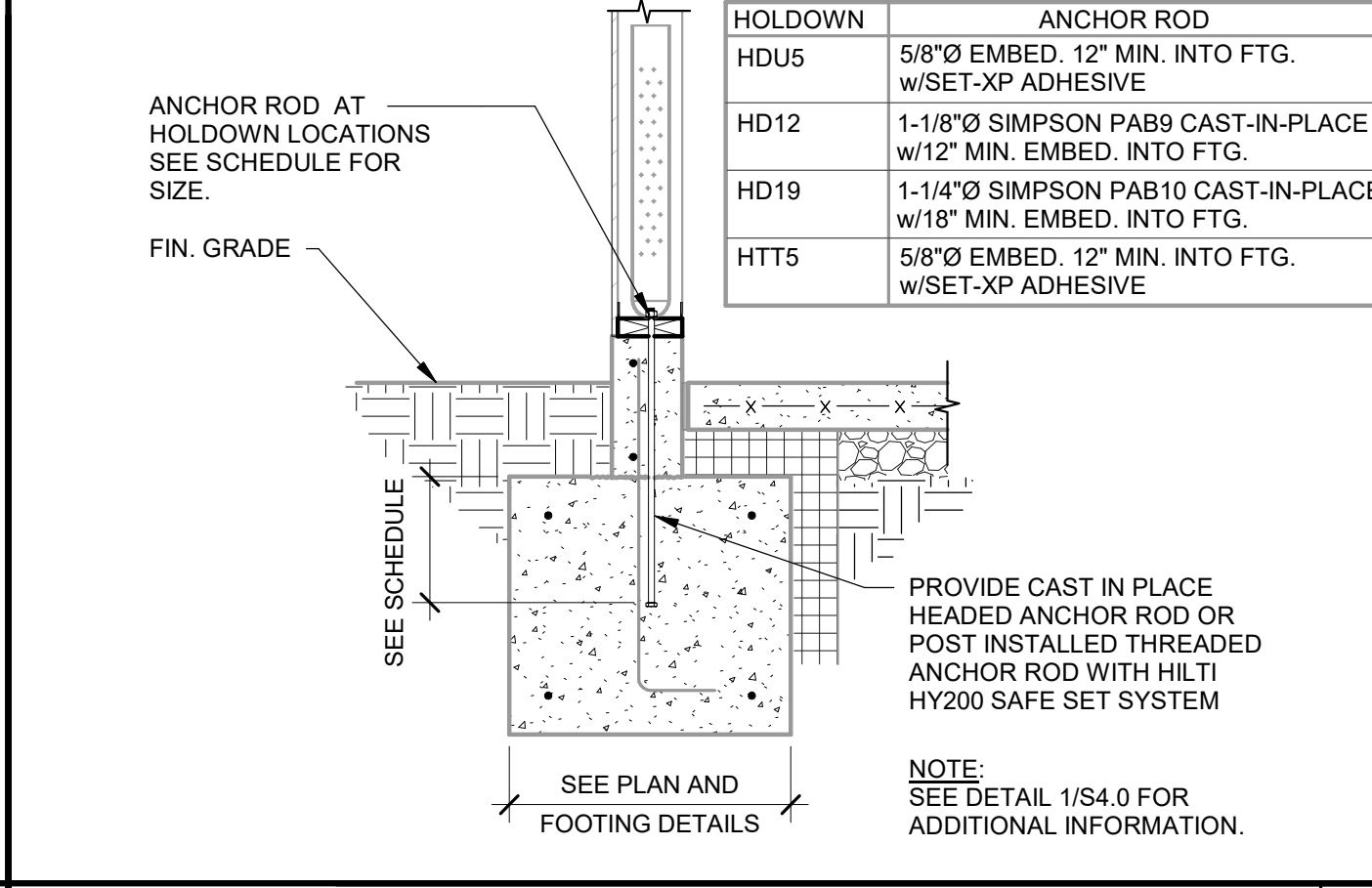
FOOTING AT SIDE AND REAR WALLS 3/4" = 1'-0" **1**



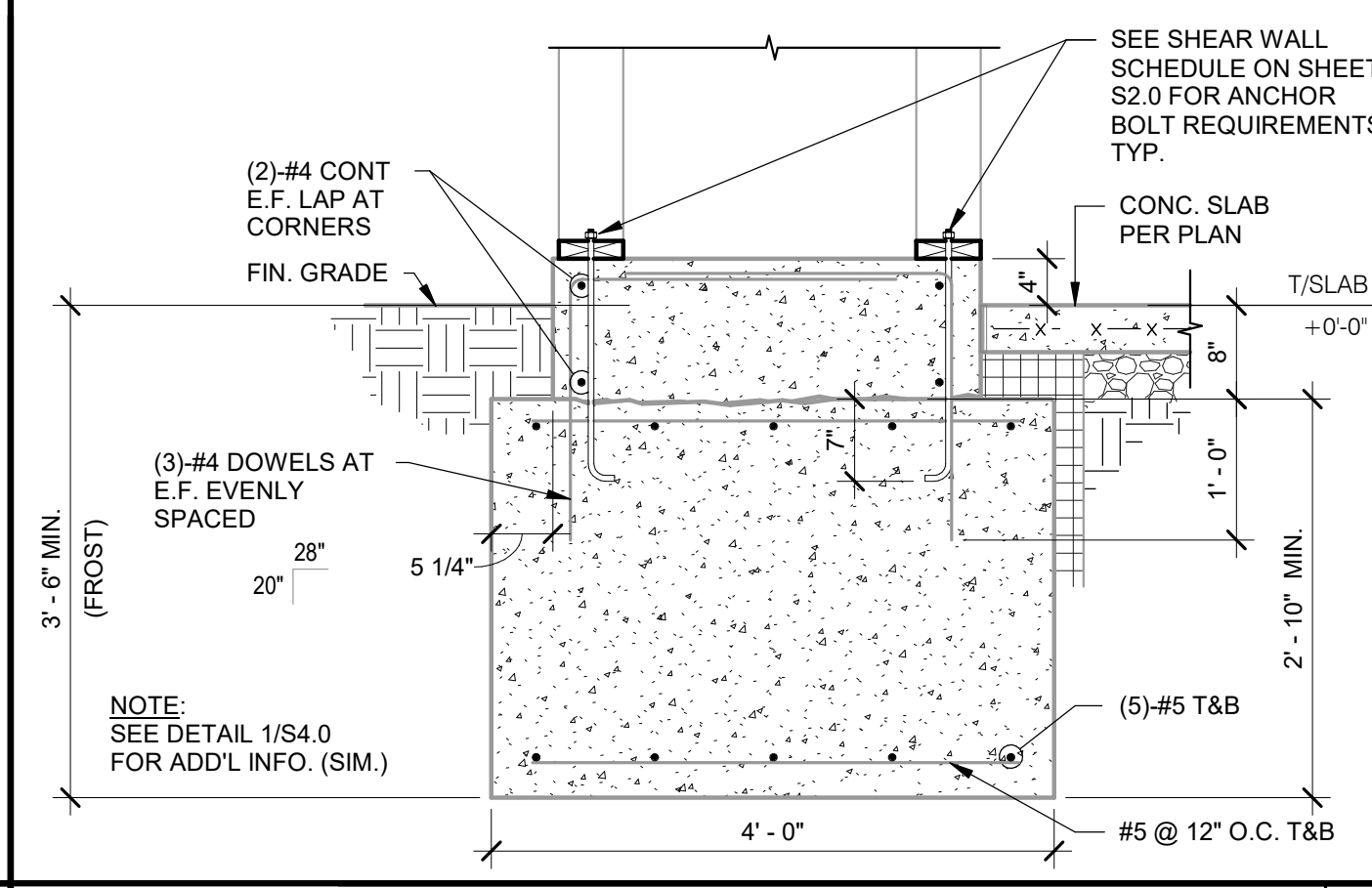
TYP. ANCHOR ROD DETAIL 3/4" = 1'-0" **14**



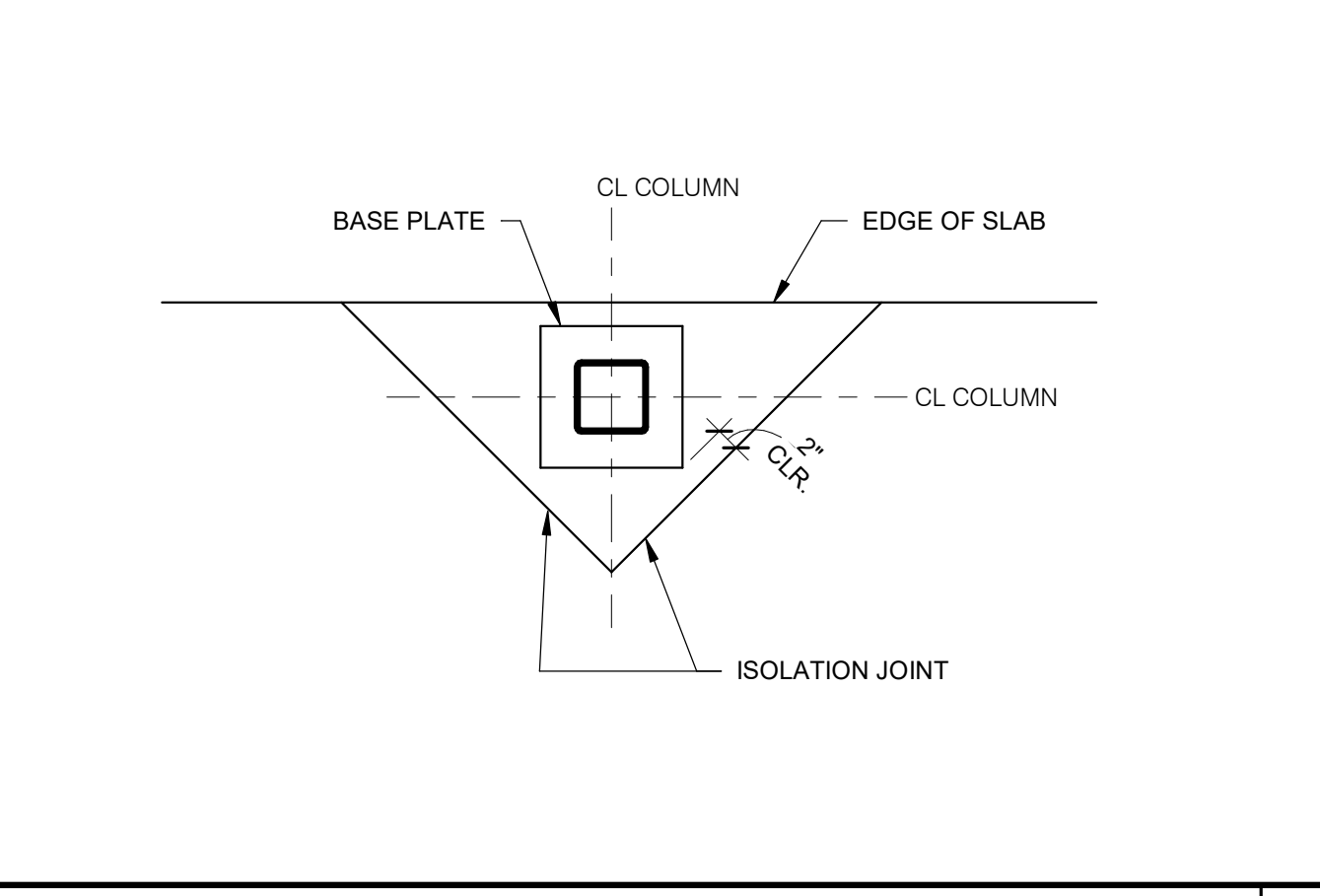
EXTERIOR SLAB TURNDOWN 3/4" = 1'-0" **10**



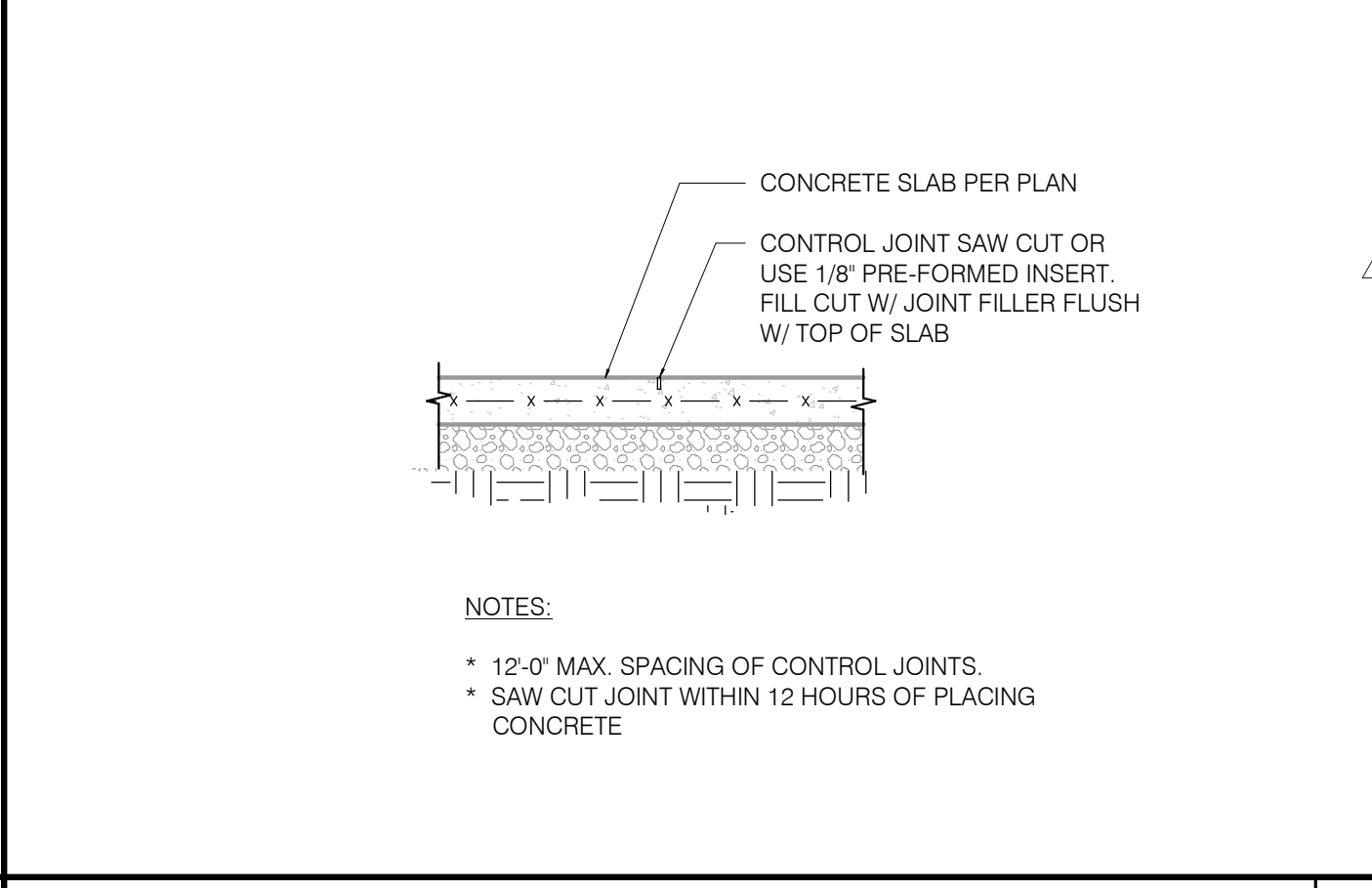
HOLDOWN DETAIL 3/4" = 1'-0" **6**



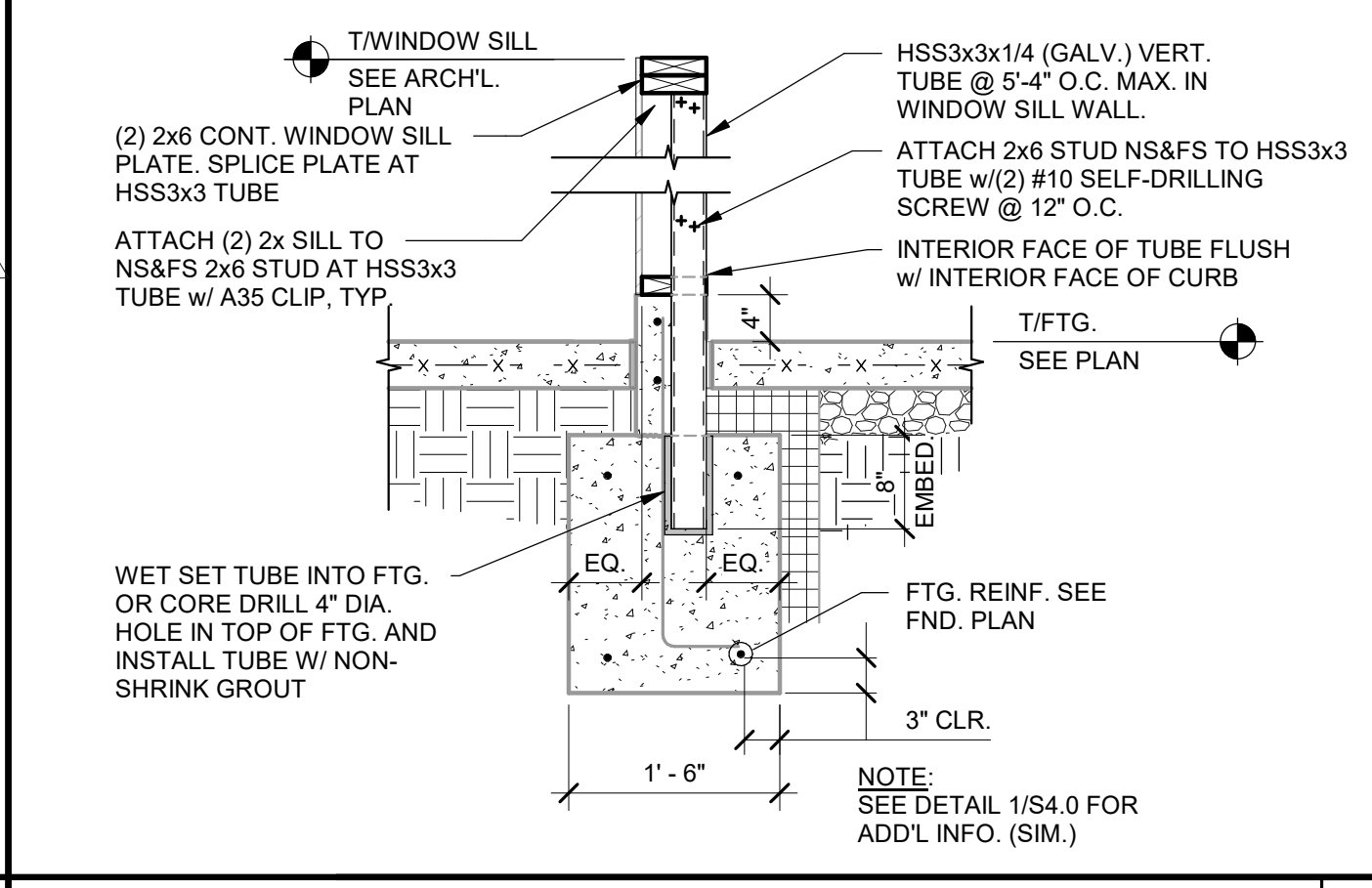
FOOTING AT ENTRY PILASTER 3/4" = 1'-0" **2**



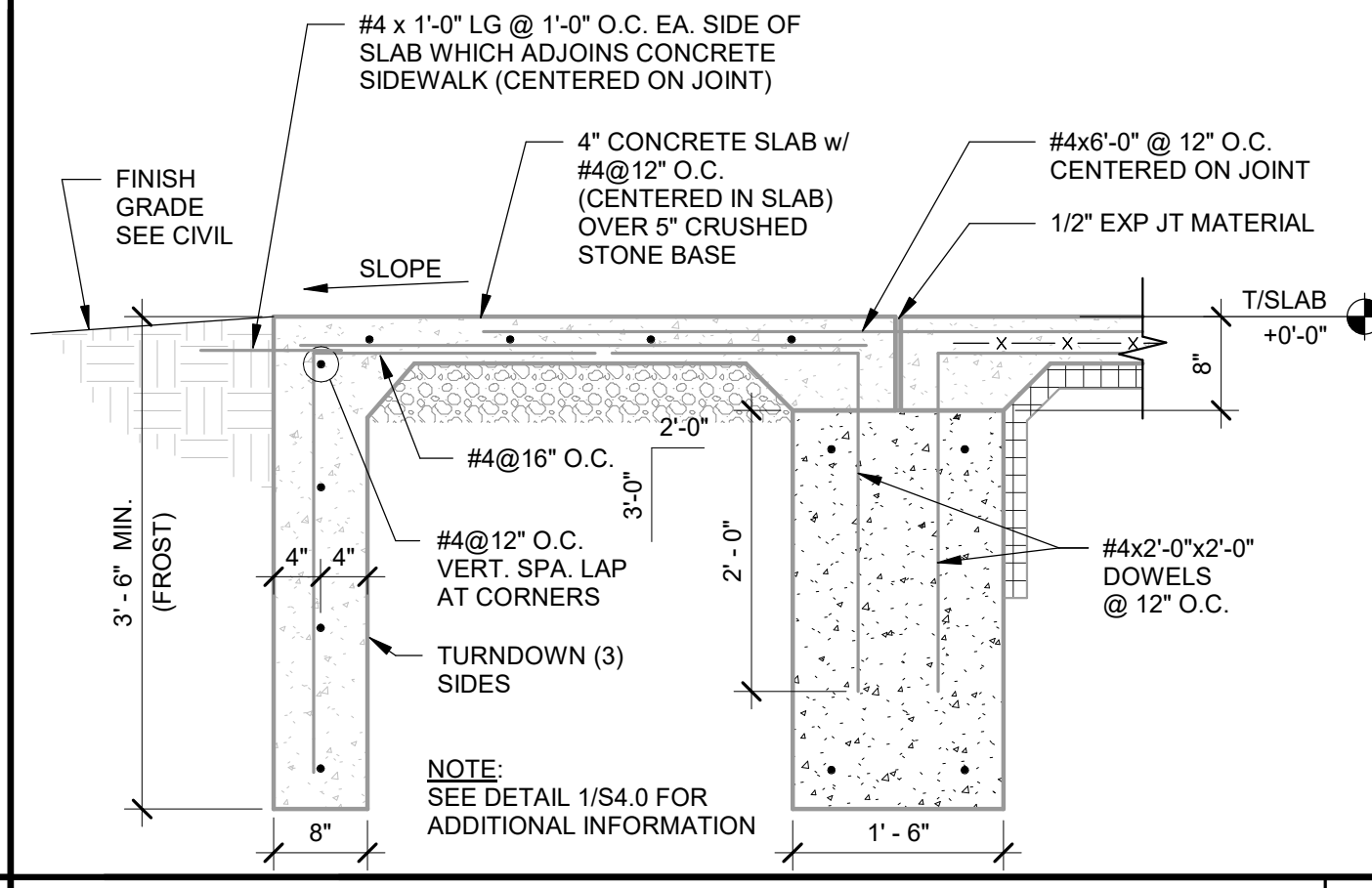
TYP. ISOLATION JOINT 3/4" = 1'-0" **15**



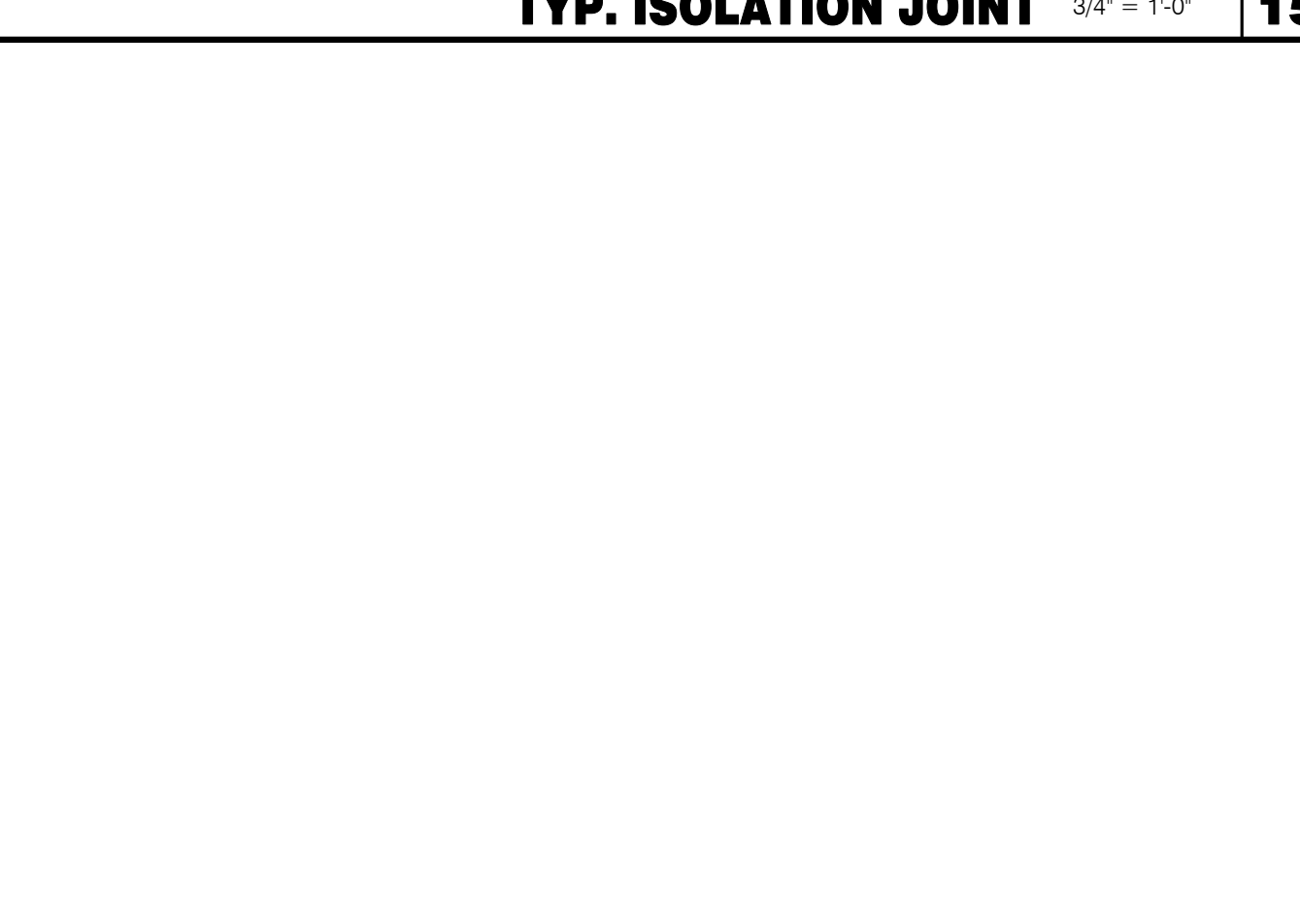
TYP. SLAB JOINT DETAIL 3/4" = 1'-0" **11**



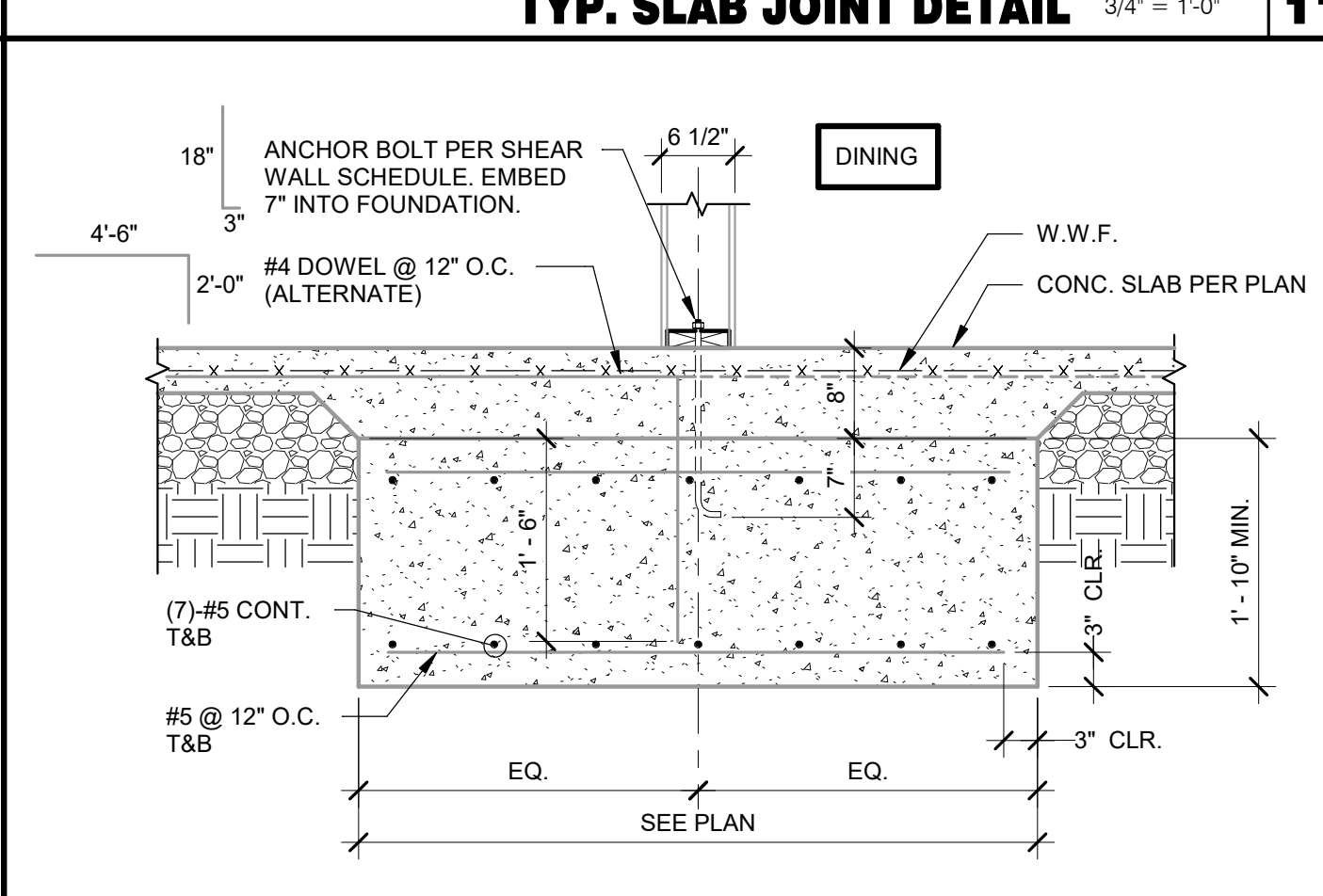
WINDOW SILL BRACING DETAIL 3/4" = 1'-0" **7**



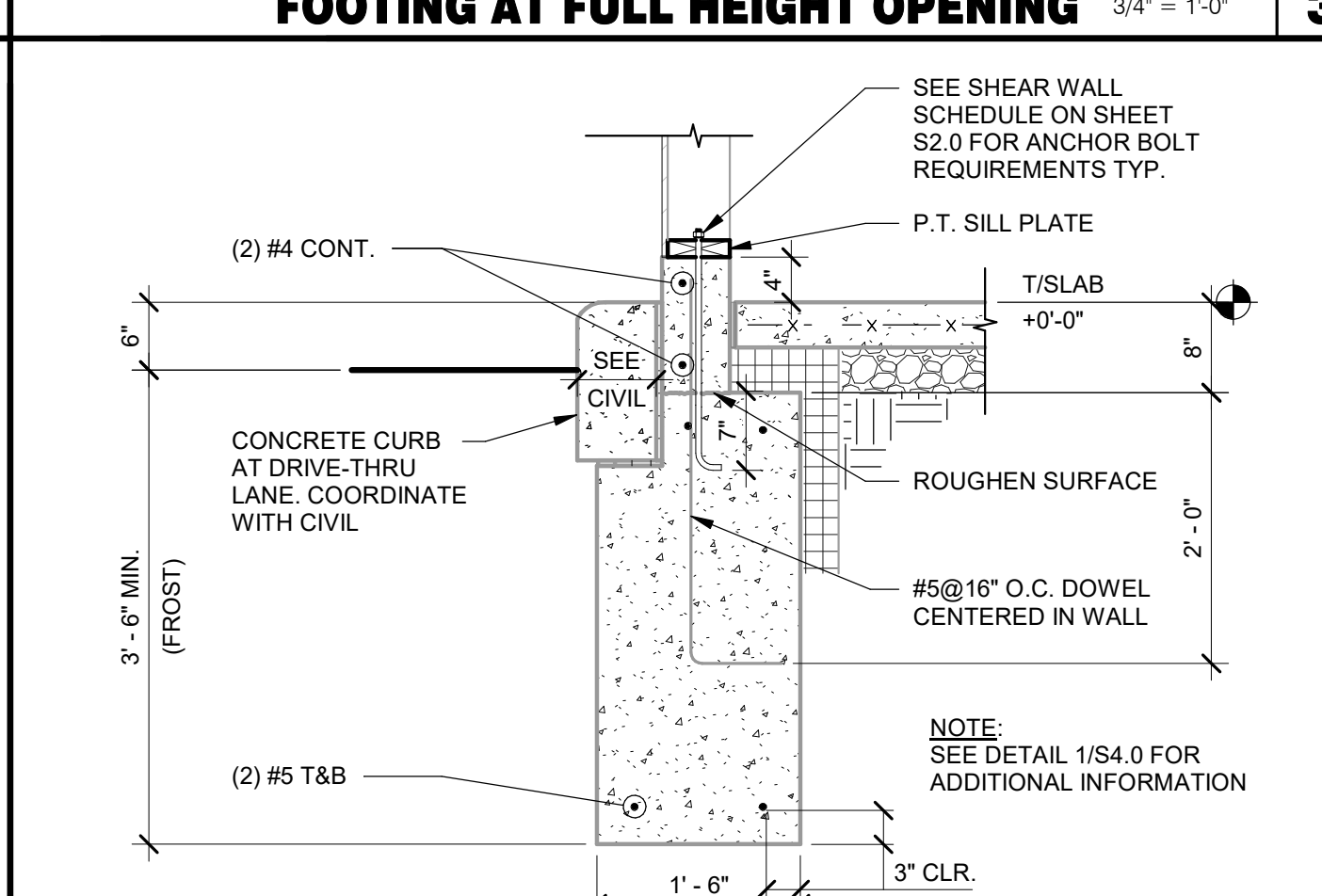
FOOTING AT FULL HEIGHT OPENING 3/4" = 1'-0" **3**



FOOTING AT INTERIOR SHEARWALL 3/4" = 1'-0" **12**



SECTION AT TOWER LEG 3/4" = 1'-0" **8**



FOOTING AT DRIVE THRU 3/4" = 1'-0" **4**

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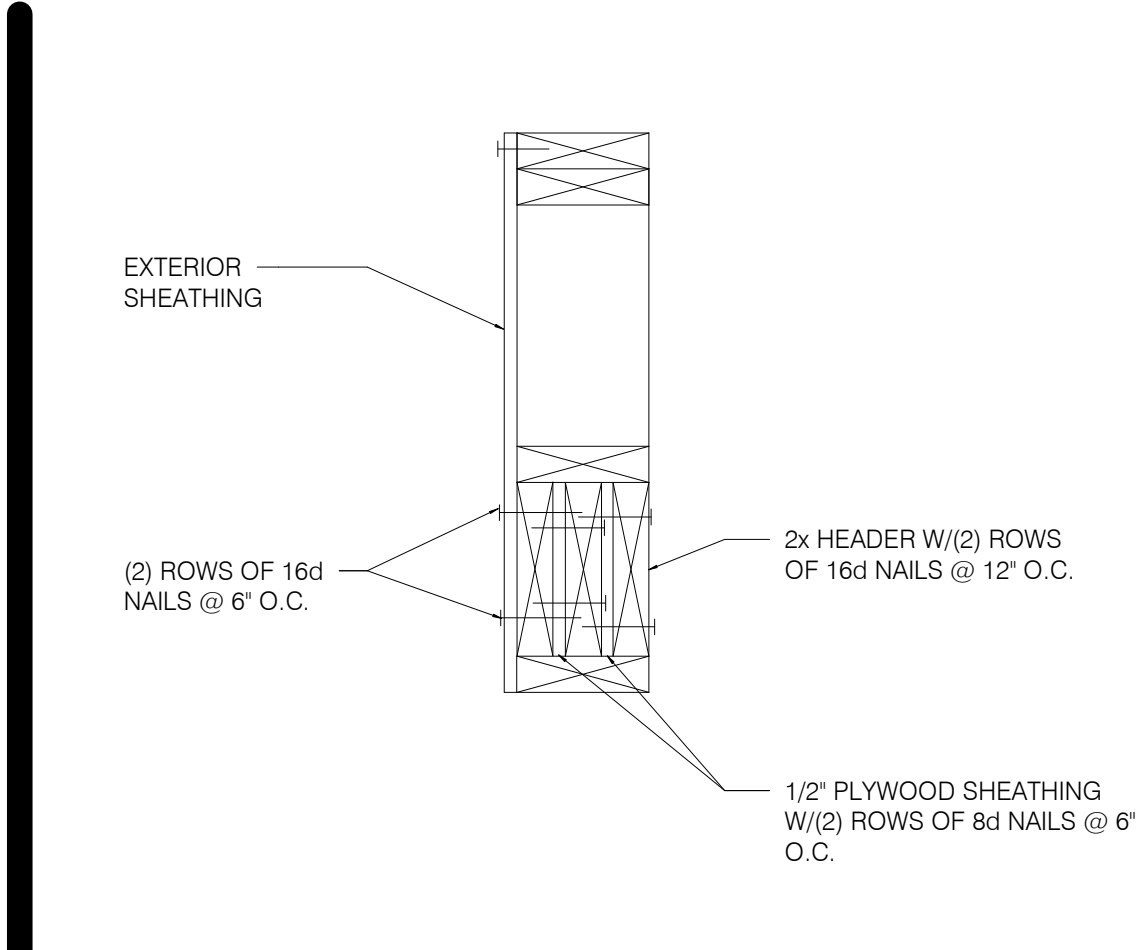


ENDEAVOR 2.0
STRUCTURAL
DETAILS

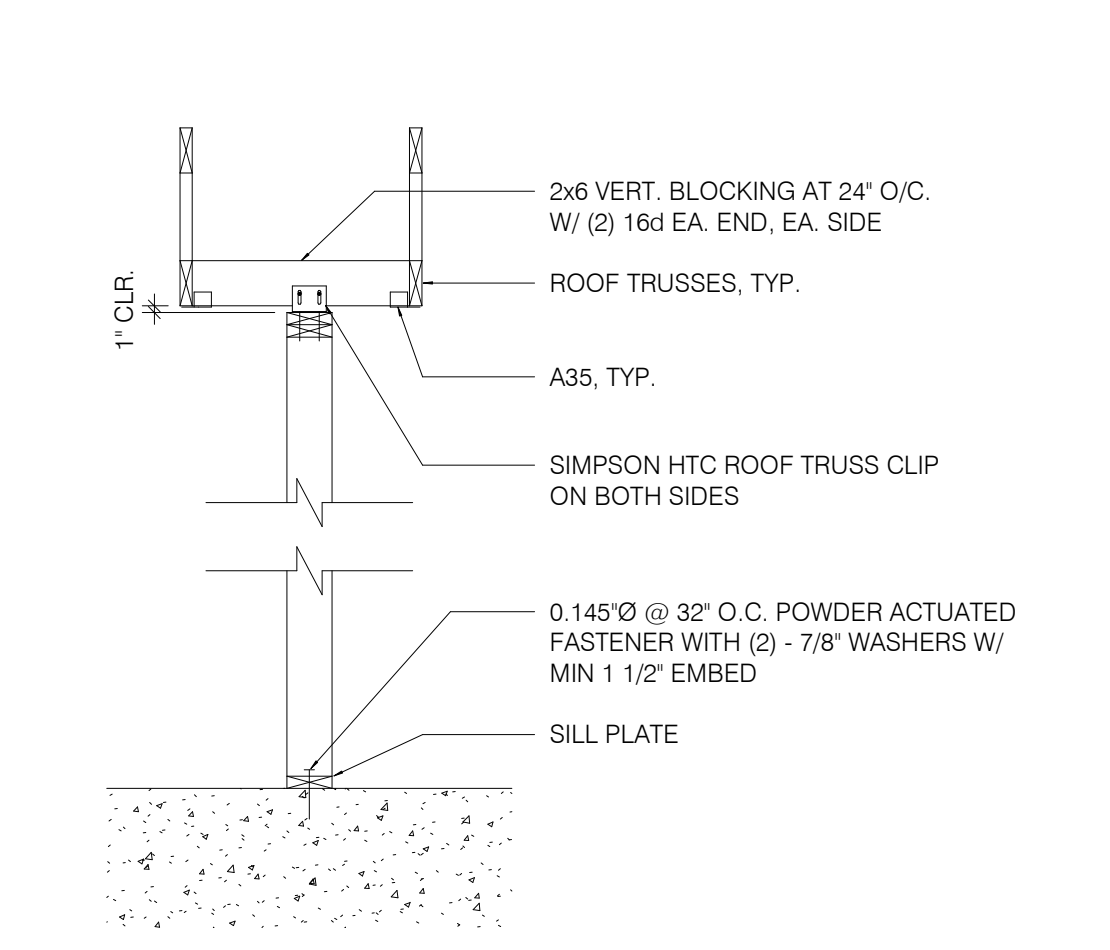
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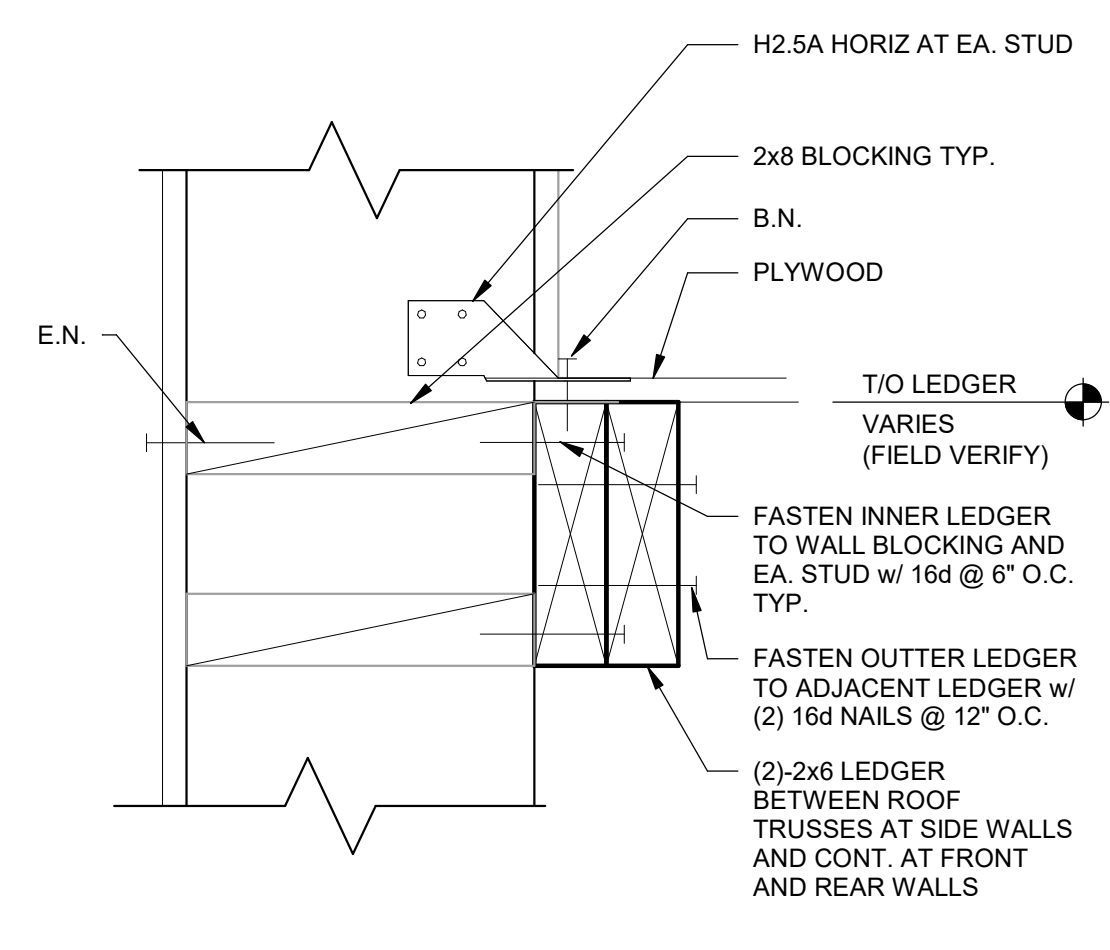
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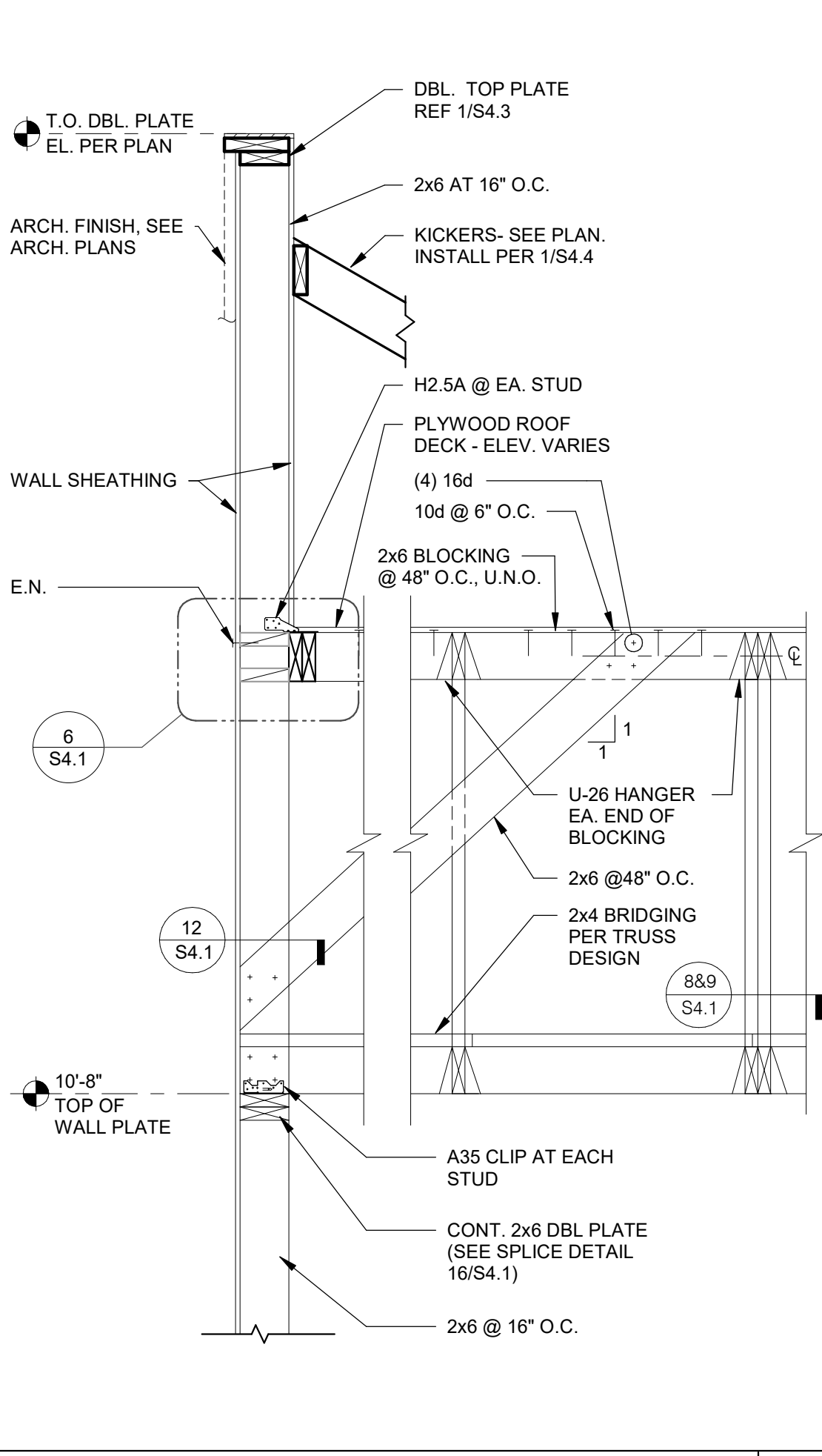
TYP. MULTIPLE HEADER 1-1/2" = 1'-0" **14**



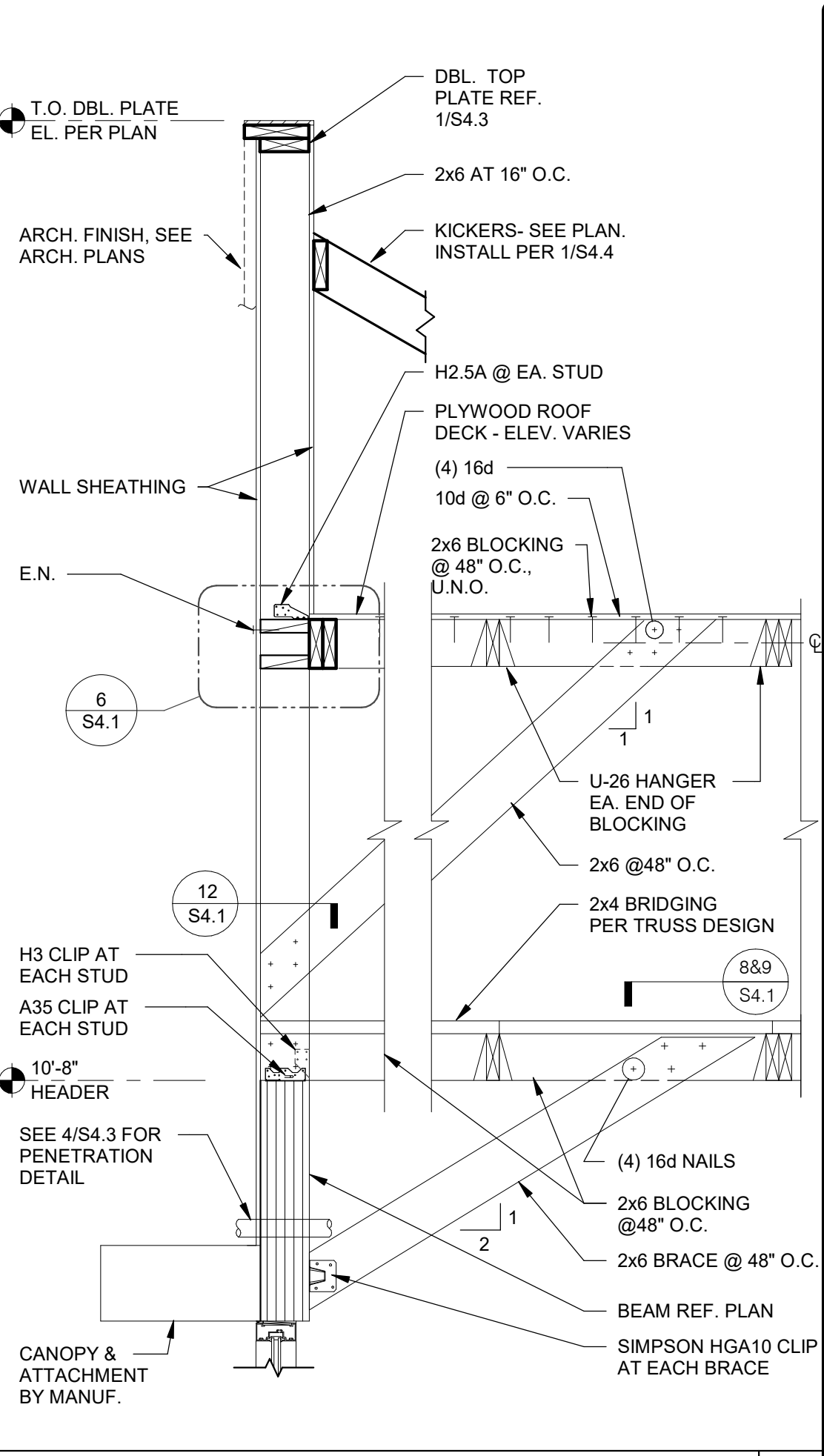
SUPPORT - PARALLEL TO TRUSS 1/2" = 1'-0" **10**



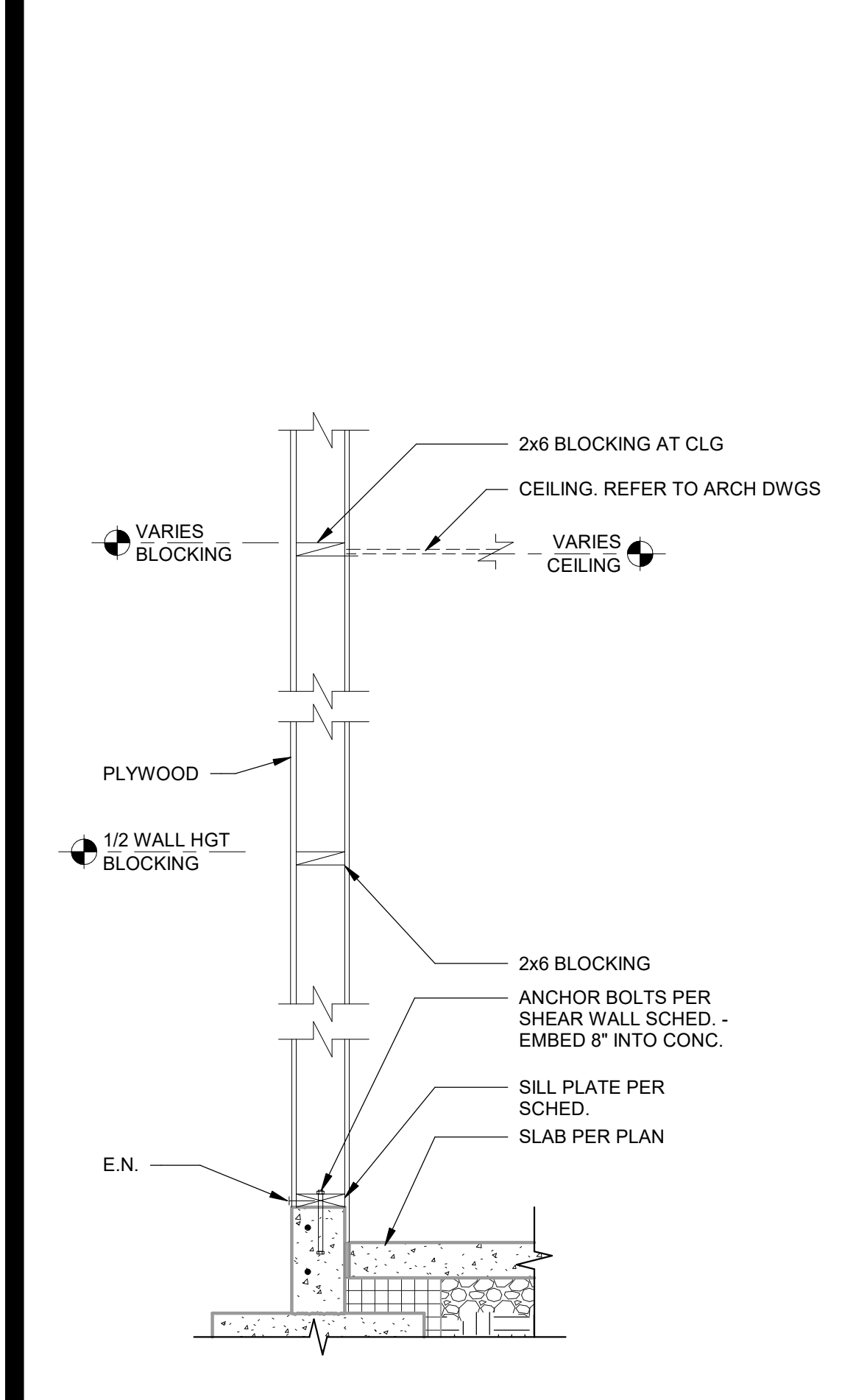
LEDGER DETAIL 3" = 1'-0" **6**



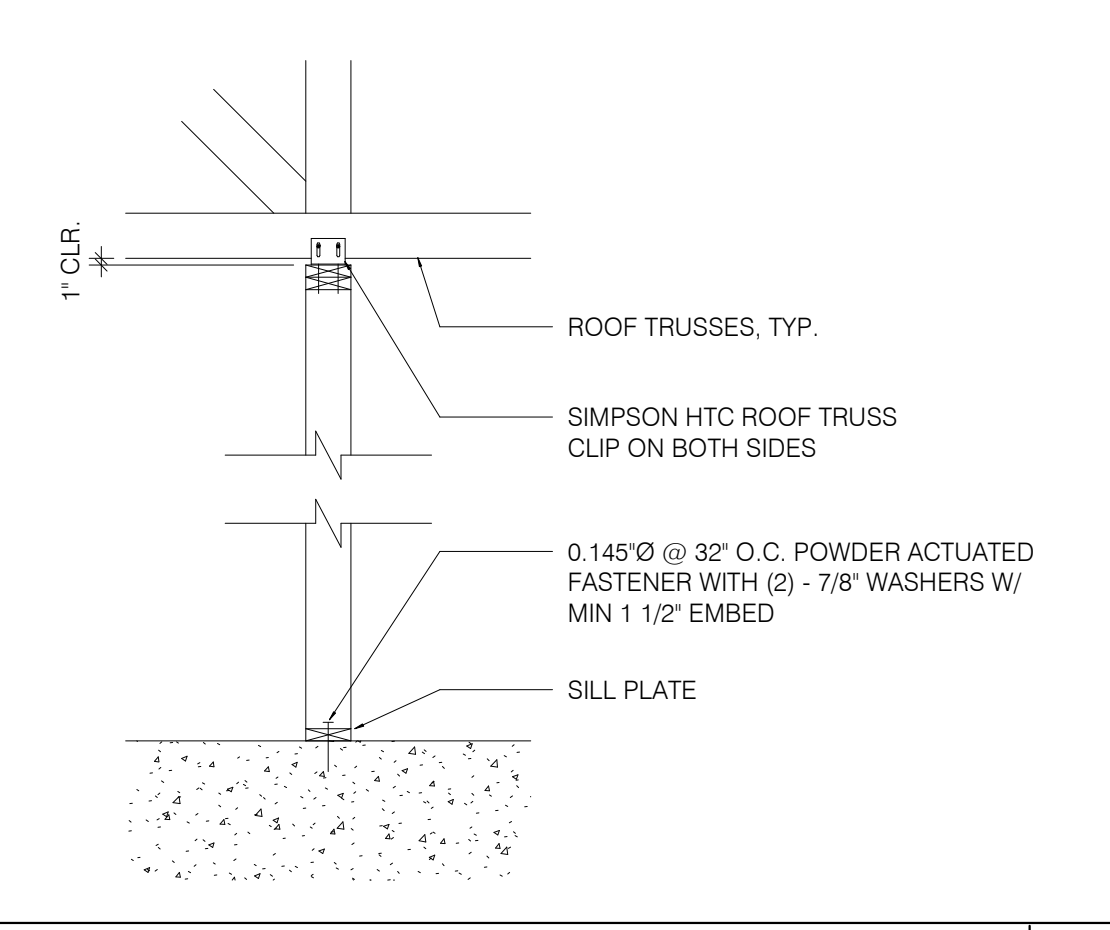
REAR WALL SECTION N.T.S. **4**



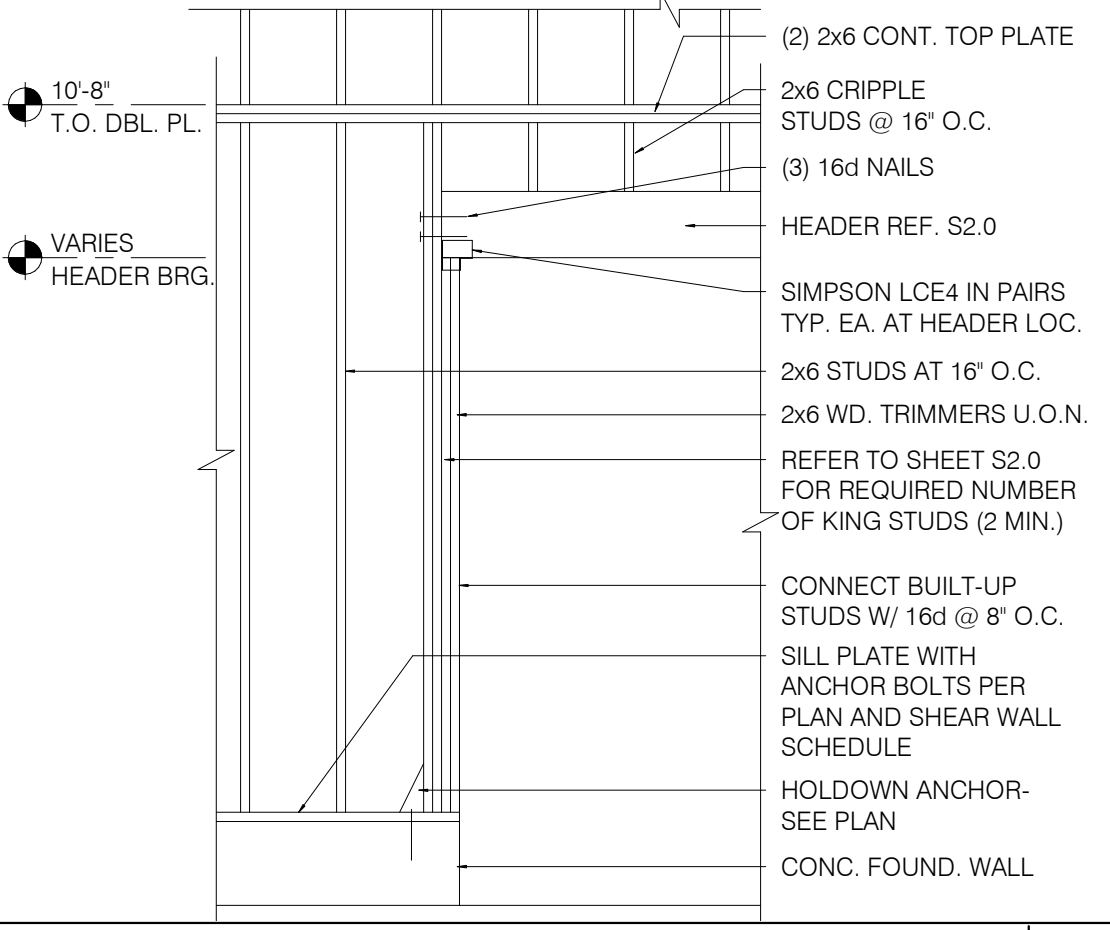
FRONT WALL SECTION N.T.S. **1**



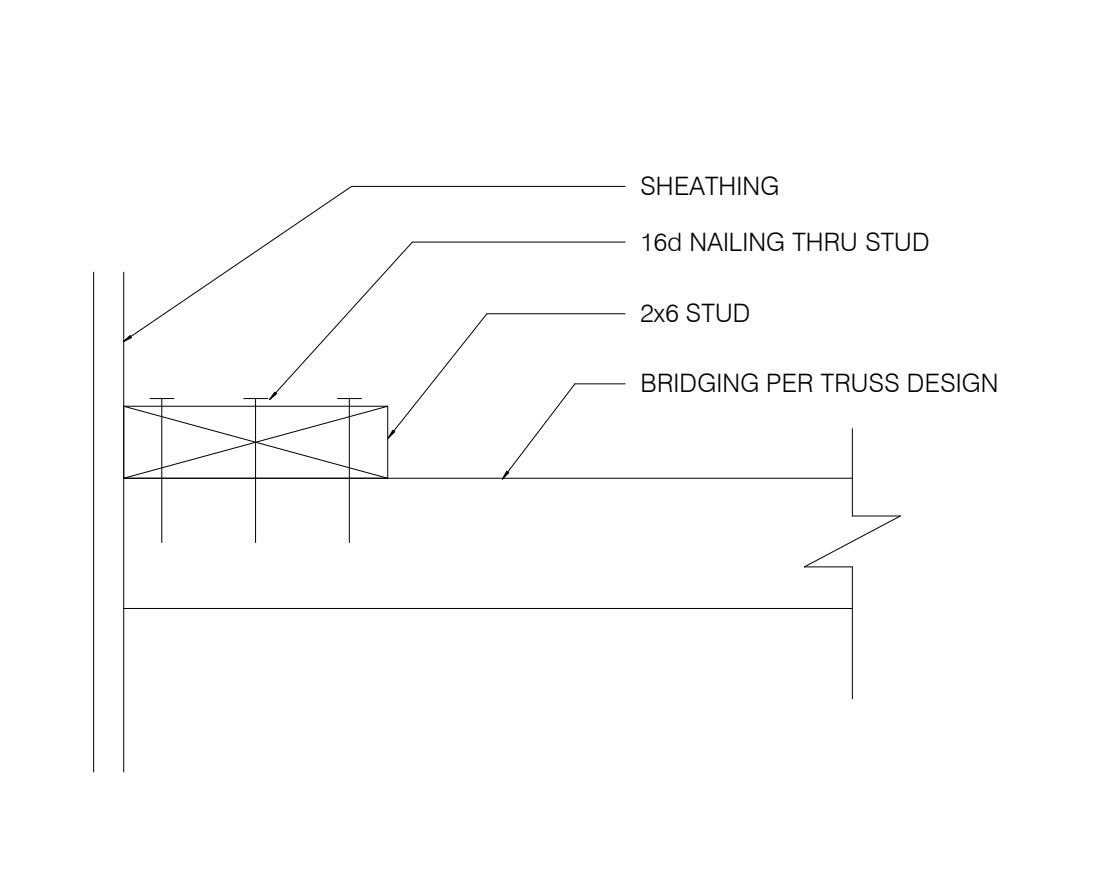
TYPICAL WALL BELOW TRUSS 3/4" = 1'-0" **15**



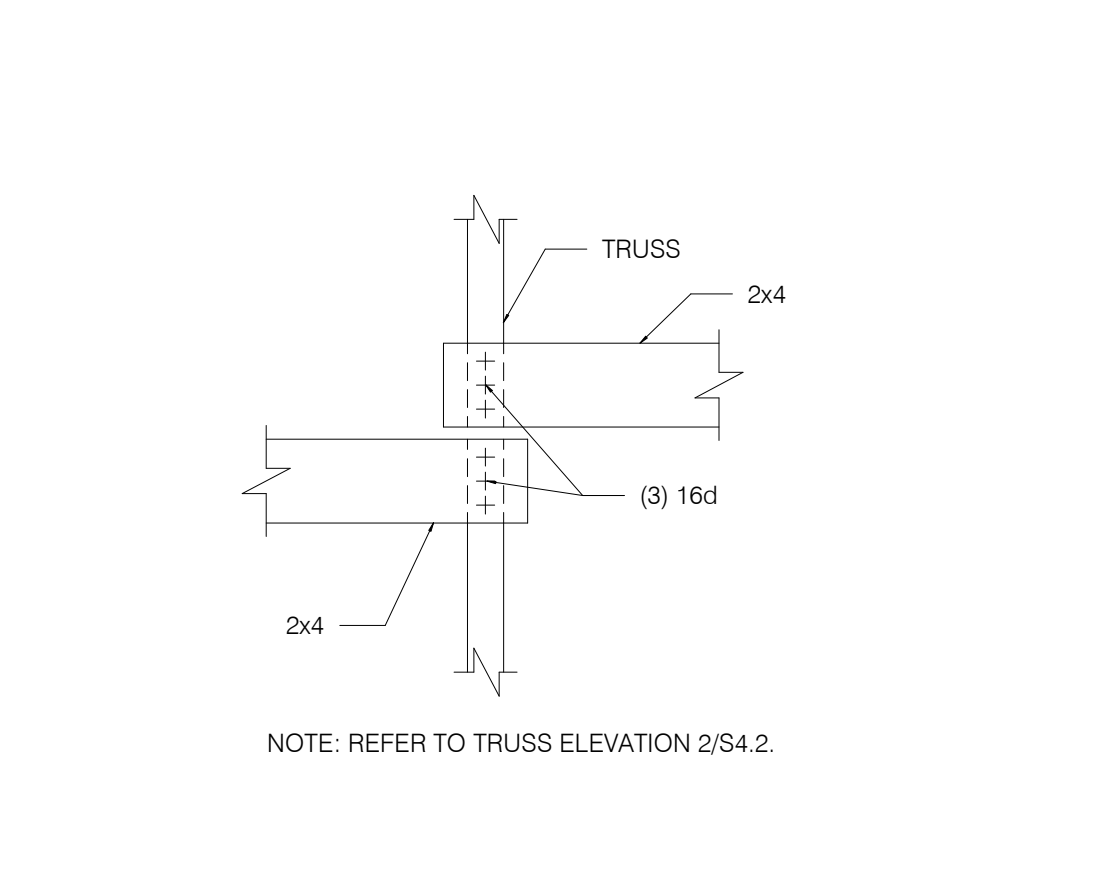
SUPPORT PERP. TO TRUSS 1/2" = 1'-0" **11**



FRAMING ELEVATION AT OPENING N.T.S. **7**



BRIDGING DETAIL 3" = 1'-0" **12**



BRIDGING LAP DETAIL 1/4" = 1'-0" **8**

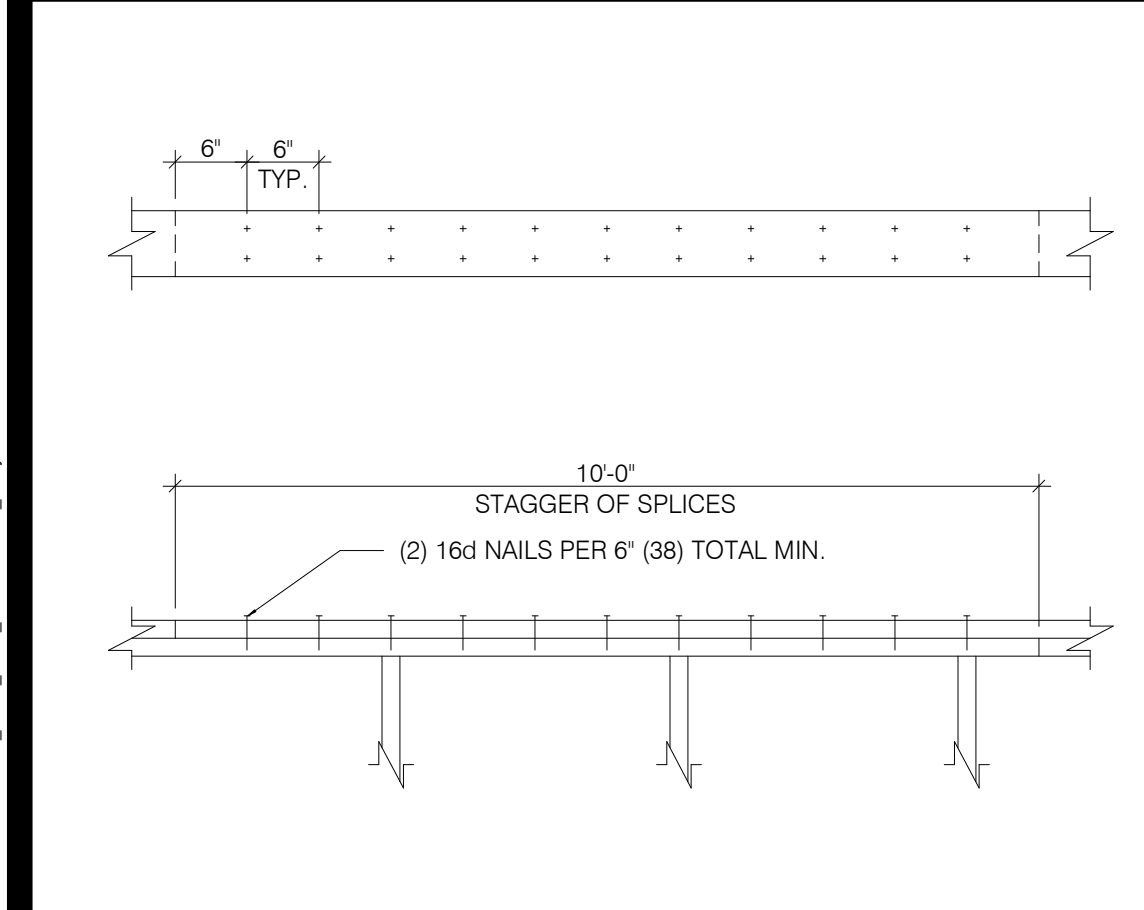
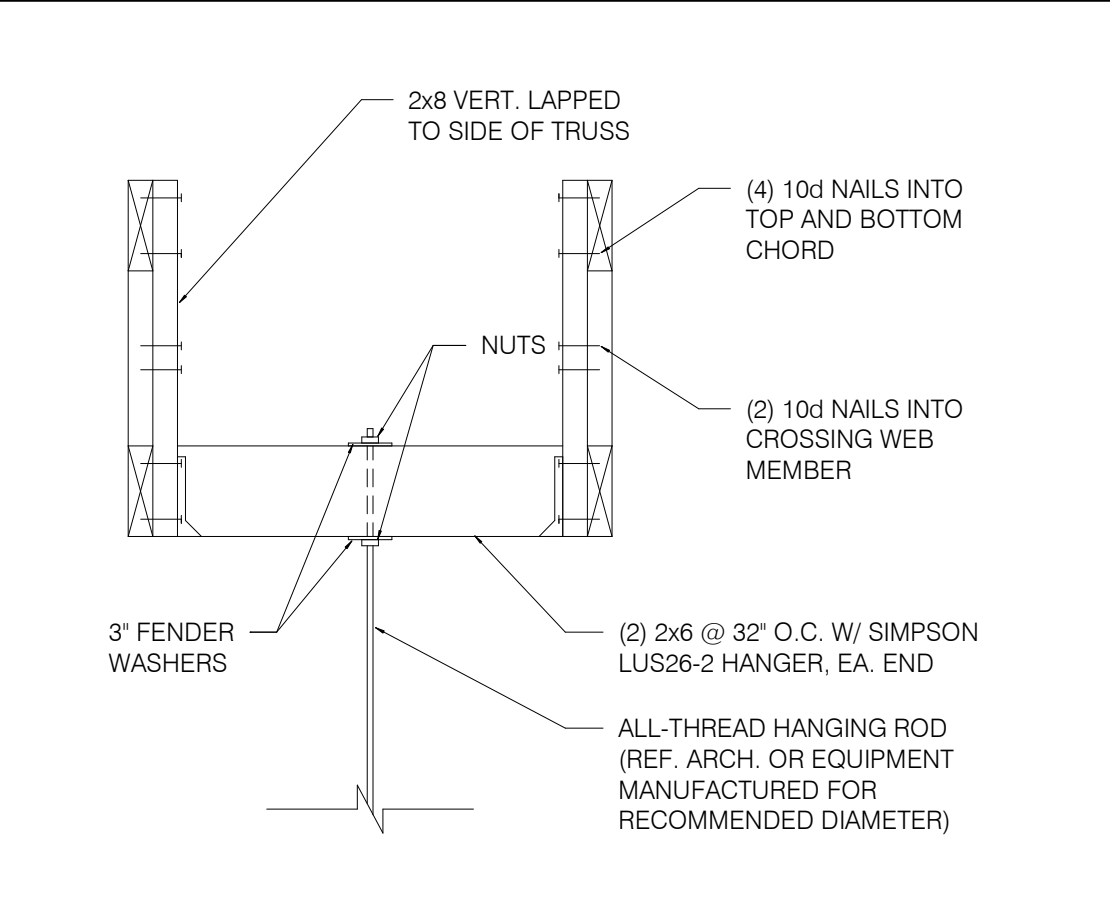
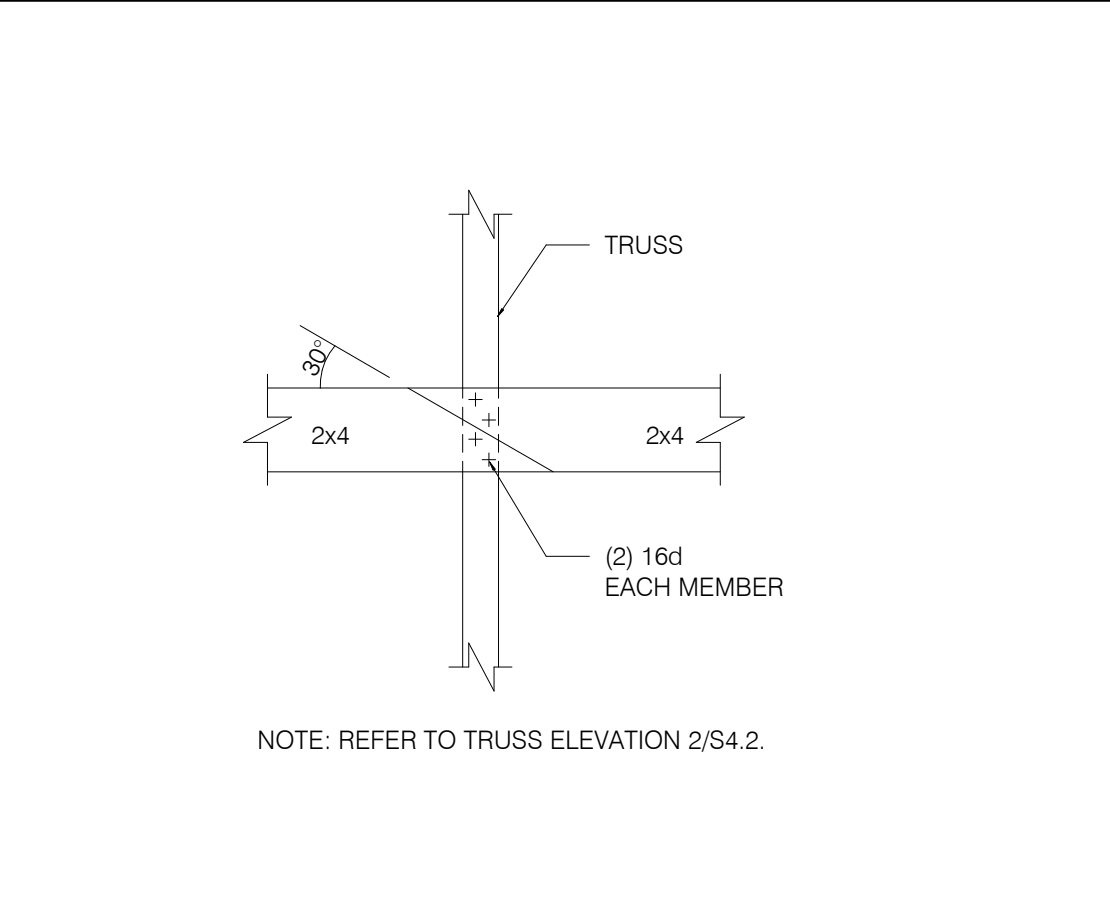


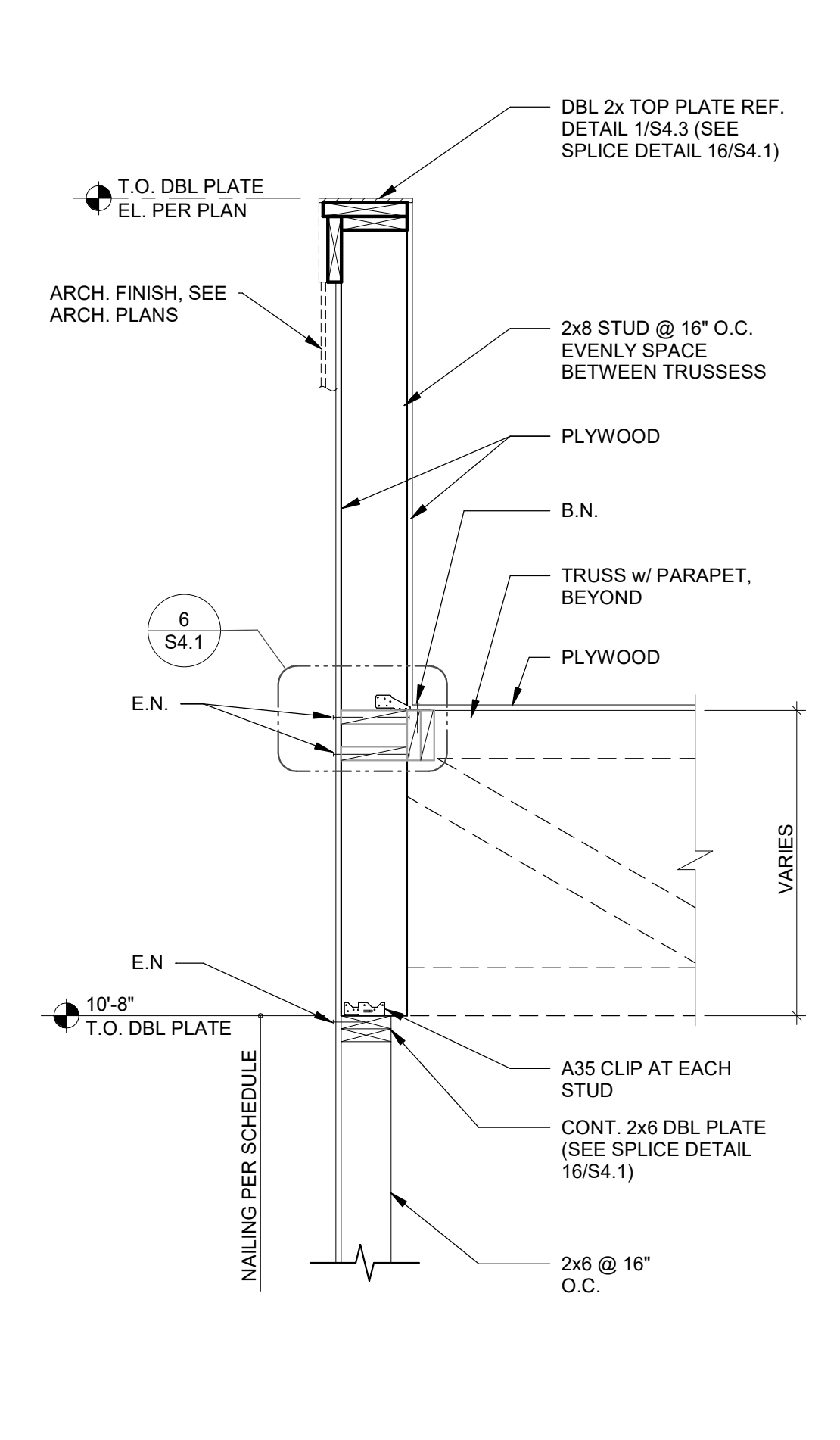
PLATE LAP DETAIL 1" = 1'-0" **16**



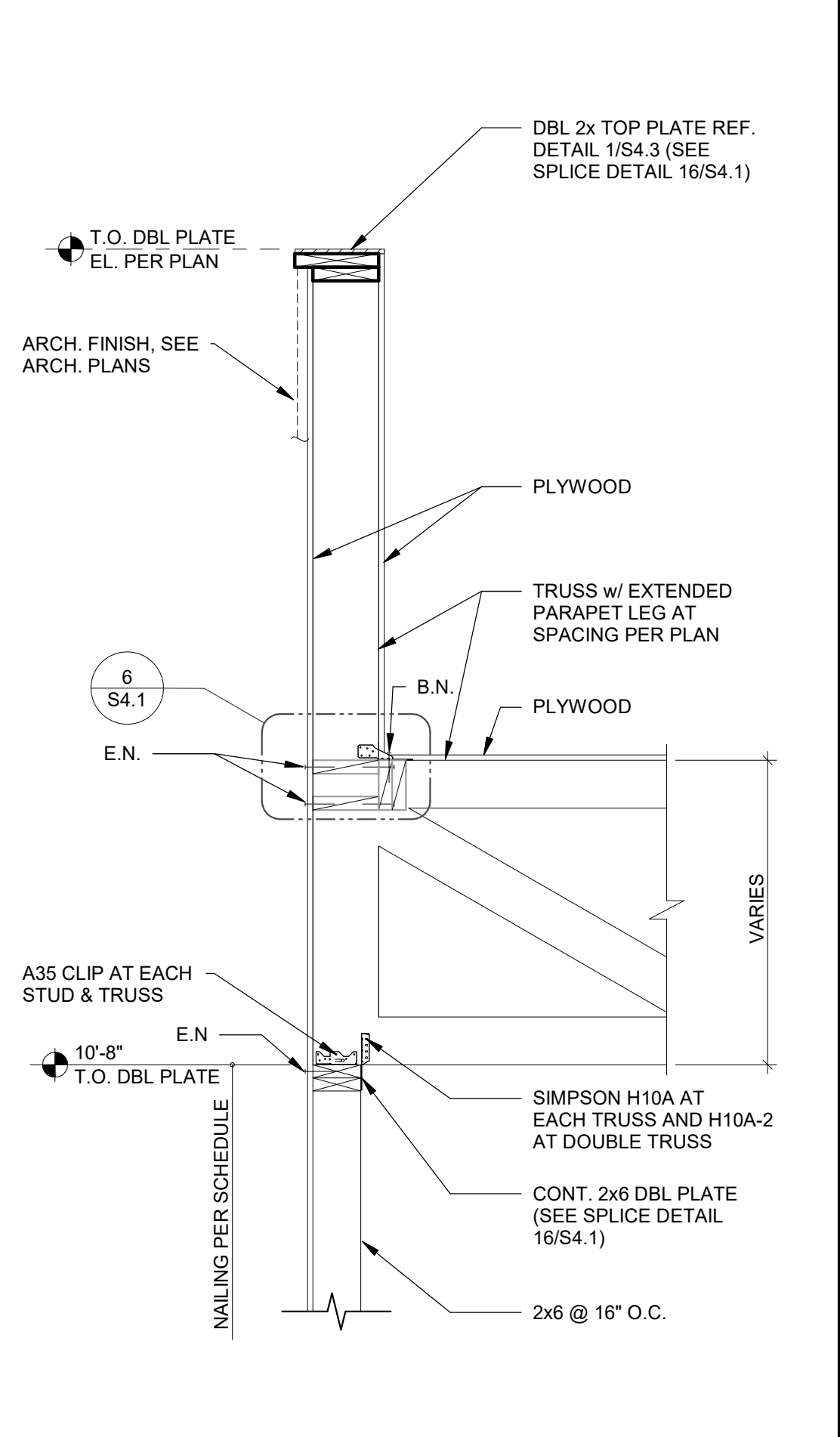
HANGING BULKHD. OR HOOD DETL. N.T.S. **13**



BRIDGING LAP DETAIL AT OPEN CLG. N.T.S. **9**



SIDE WALL AT PARAPET STUD 3/4" = 1'-0" **5**



SIDE WALL AT TRUSS N.T.S. **2**

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DETAILS

S4.1

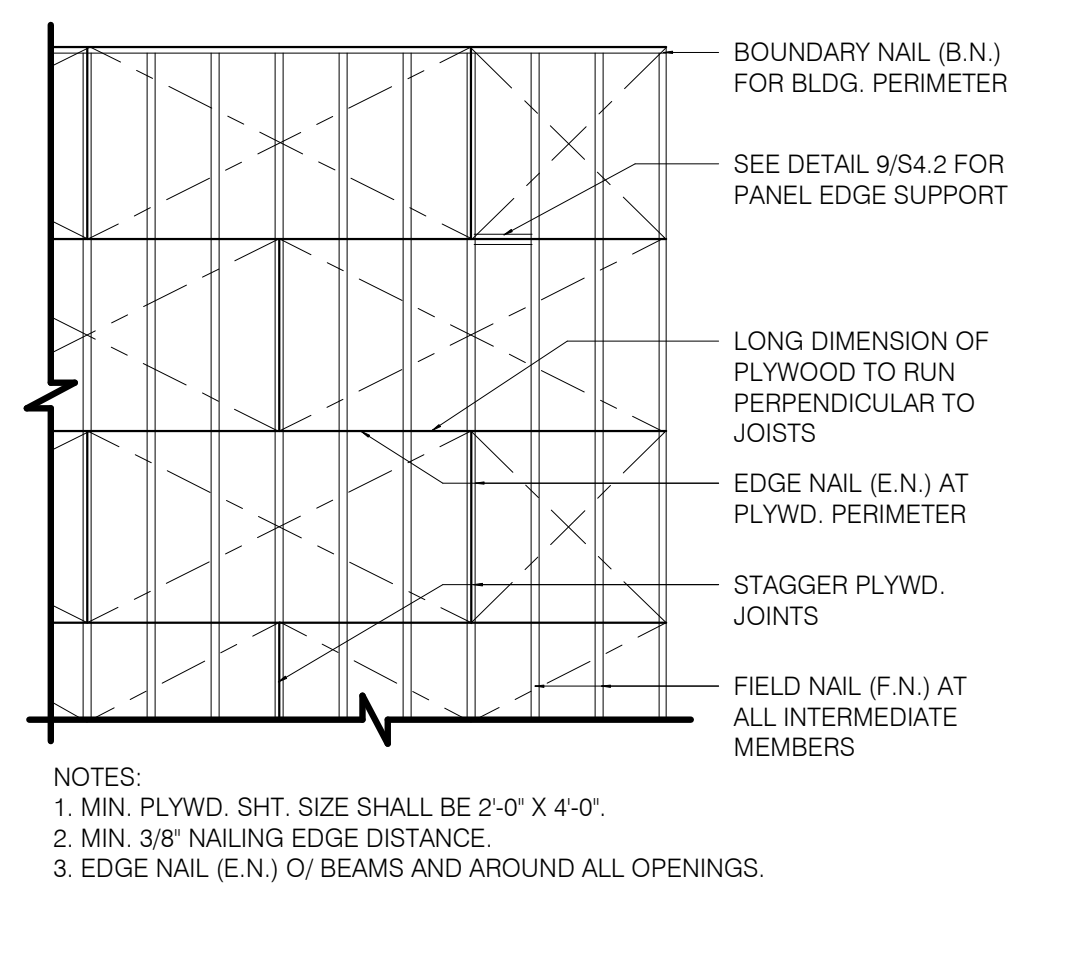


CONNECTION:

1. JOIST TO SILL OR GIRDER, TOENAIL (2-8d)
2. BRIDGING TO JOIST, TOENAIL EACH END (2-8d)
3. 1"x6" (25MMx152MM) SUBFLOOR OR LESS TO JOIST, FACE NAIL (2-8d)
4. WIDER THAN 1" x 6" (25MMx152MM) SUBFLOOR TO JOIST, FACE NAIL (3-8d)
5. 2" (52MM) SUBFLOOR TO GIRDER, BLIND AND FACE NAIL (2-16d)
6. SOLE PLATE TO JOIST OR BLOCKING, TYPICAL FACE NAIL (16d @ 16" O.C.)
7. SOLE PLATE TO JOIST OR BLOCKING, AT BRACED W. PANELS (3-16d PER 16")
8. TOP PLATE TO STUD, END NAIL (2-16d)
9. STUD TO SOLE PLATE (2-16d END NAIL)
10. DOUBLE STUDS, FACE NAIL (16d @ 16" O.C.)
11. DOUBLE TOP PLATES, TYPICAL FACE NAIL (16d @ 16" O.C.)
12. DOUBLE TOP PLATES, LAP SPLICE (8-16d)
13. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE, TOENAIL (3-8d)
14. RIM JOIST TO TOP PLATE, TOENAIL (8d @ 6" O.C.)
15. TOP PLATES, LAPS AND INTERSECTIONS, FACE NAIL (2-16d)
16. CONTINUOUS HEADER, TWO PIECES (16d @ 16" O.C. ALONG EDGE)
17. CEILING JOISTS TO PLATE, TOENAIL (3-8d)
18. CONTINUOUS HEADER TO STUD, TOENAIL (4-8d)
19. CEILING JOISTS, LAP OVER PARTITIONS, FACE NAIL (3-16d)
20. CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL (3-16d)
21. RAFTER TO PLATE, TOENAIL (3-8d)
22. 1" (25MM) BRACE TO EACH STUD AND PLATE, FACE NAIL (2-8d)
23. 1"x8" SHEATHING OR LESS TO EACH BEARING, FACE NAIL (2-8d)
24. WIDER THAN 1"x8" SHEATHING TO EACH BEARING, FACE NAIL (3-8d)
25. BUILT-UP CORNER STUDS (16d @ 24" O.C.)
26. 2" PLANKS (2-16d AT EACH SPACE)
27. 2x6 BOX BEAM / HEADER (12d @ 12" O.C.)
28. BUILT-UP GIRDER AND BEAMS (20d @ 32" O.C. AT TOP & BOTTOM AND STAGGERED 2-20d AT ENDS & AT EACH SPACE)

NAILING:

- (3-10d)
- (2-8d)
- (2-8d)
- (3-8d)
- (2-16d)
- (16d @ 16" O.C.)
- (3-16d PER 16")
- (2-16d)
- (2-16d END NAIL)
- (16d @ 16" O.C.)
- (16d @ 16" O.C.)
- (8-16d)
- (3-8d)
- (8d @ 6" O.C.)
- (2-16d)
- (16d @ 16" O.C. ALONG EDGE)
- (3-8d)
- (4-8d)
- (3-16d)
- (3-16d)
- (3-8d)
- (2-8d)
- (2-8d)
- (3-8d)
- (16d @ 24" O.C.)
- (2-16d AT EACH SPACE)
- (12d @ 12" O.C.)
- (20d @ 32" O.C. AT TOP & BOTTOM AND STAGGERED 2-20d AT ENDS & AT EACH SPACE)

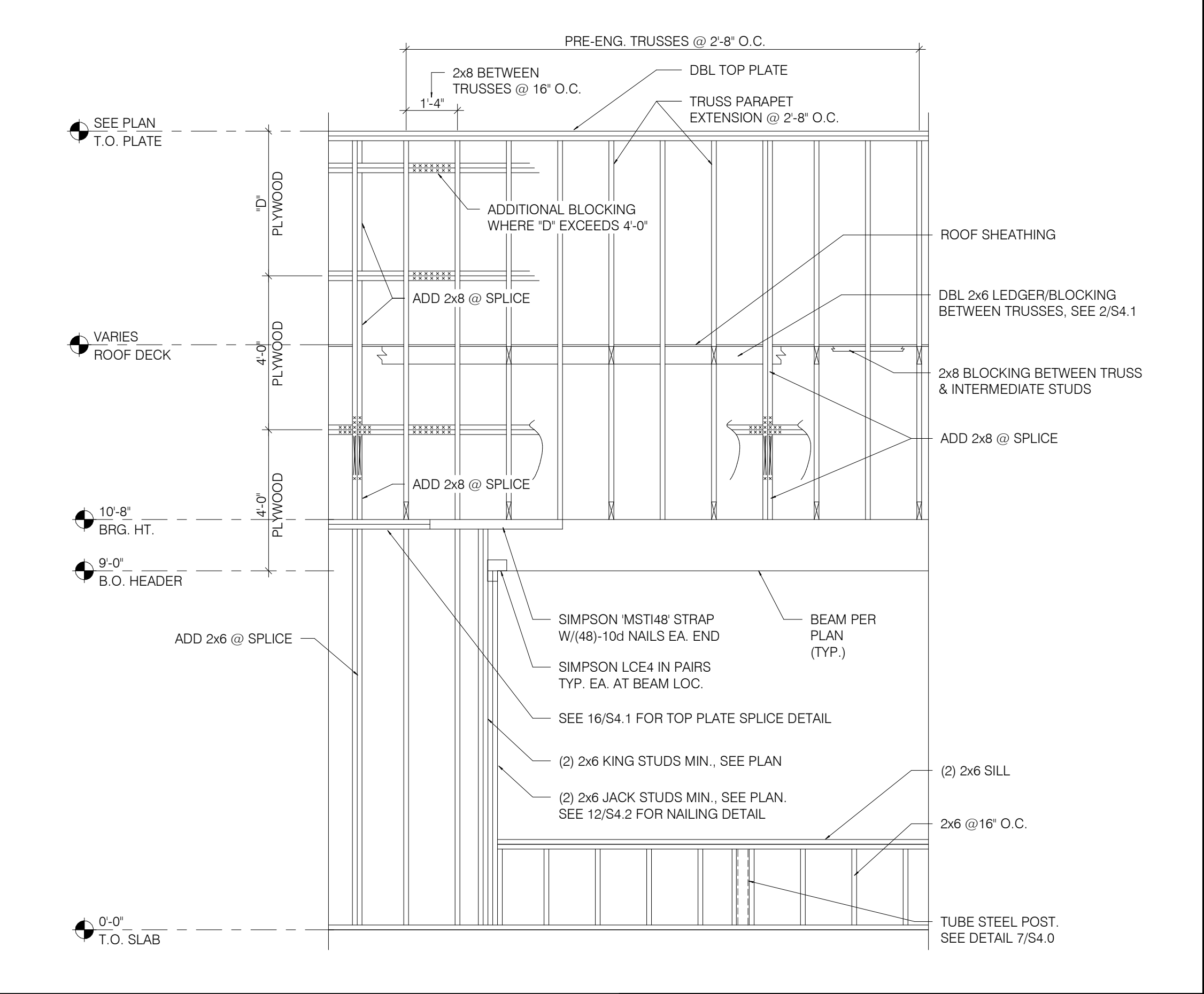


ROOF NAILING PLAN N.T.S. **8**

ROOF TOP EQUIPMENT WEIGHTS 1" = 1'-0" **5**

EQUIPMENT	DESIGN WEIGHT
HVAC UNIT - RTU-1	* SEE PLAN
HVAC UNIT - RTU-2	* SEE PLAN
EXHAUST FAN - EF-1	* 200 lbs.
EXHAUST FAN - EF-2	* 70 lbs.
HOOD #1 - TACO BELL	400 lbs.
ICE CONDENSERS	200 lbs.
FREEZER CONDENSER	300 lbs.
COOLER CONDENSER	300 lbs.

* A. ALL DESIGN WEIGHTS INCLUDE CURB.
B. COORDINATE WEIGHTS WITH HVAC UNIT SCHEDULE 1/M 1.0.

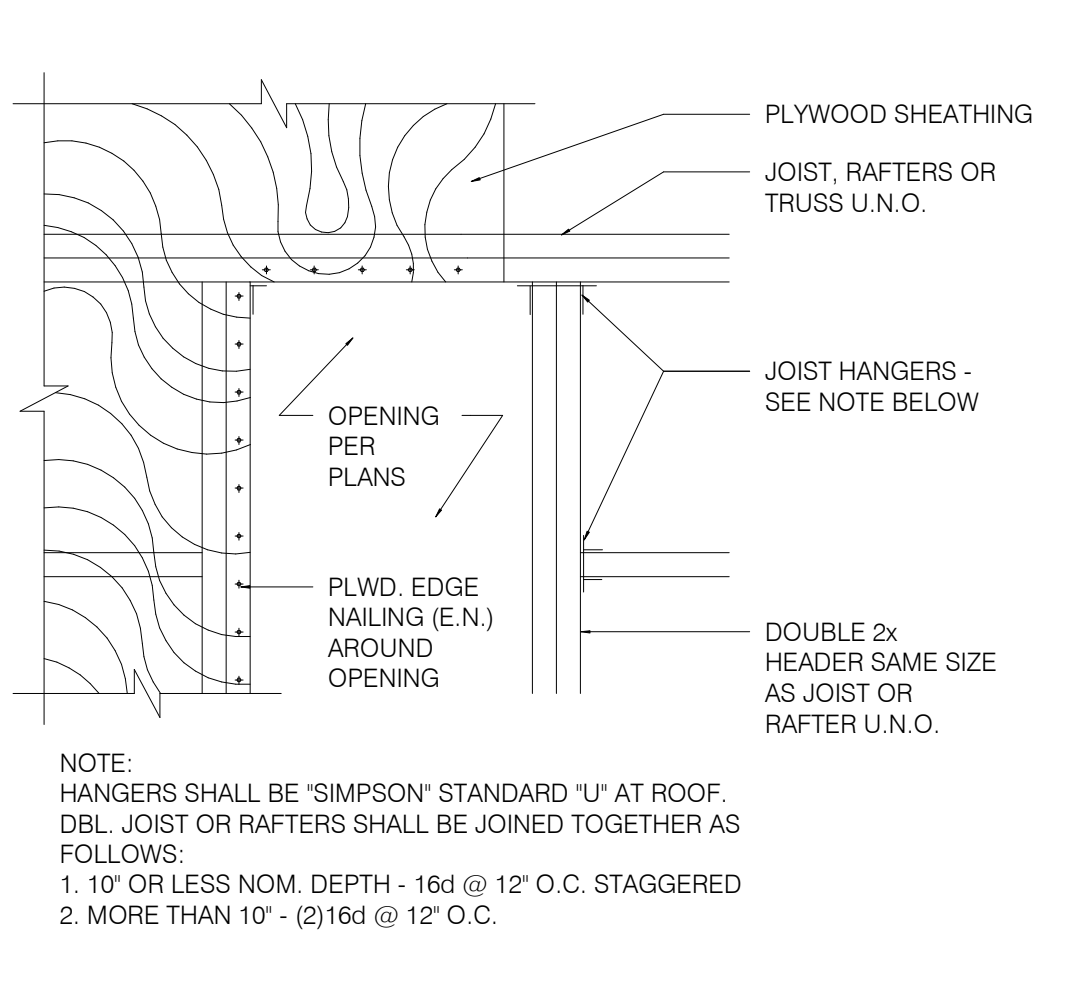
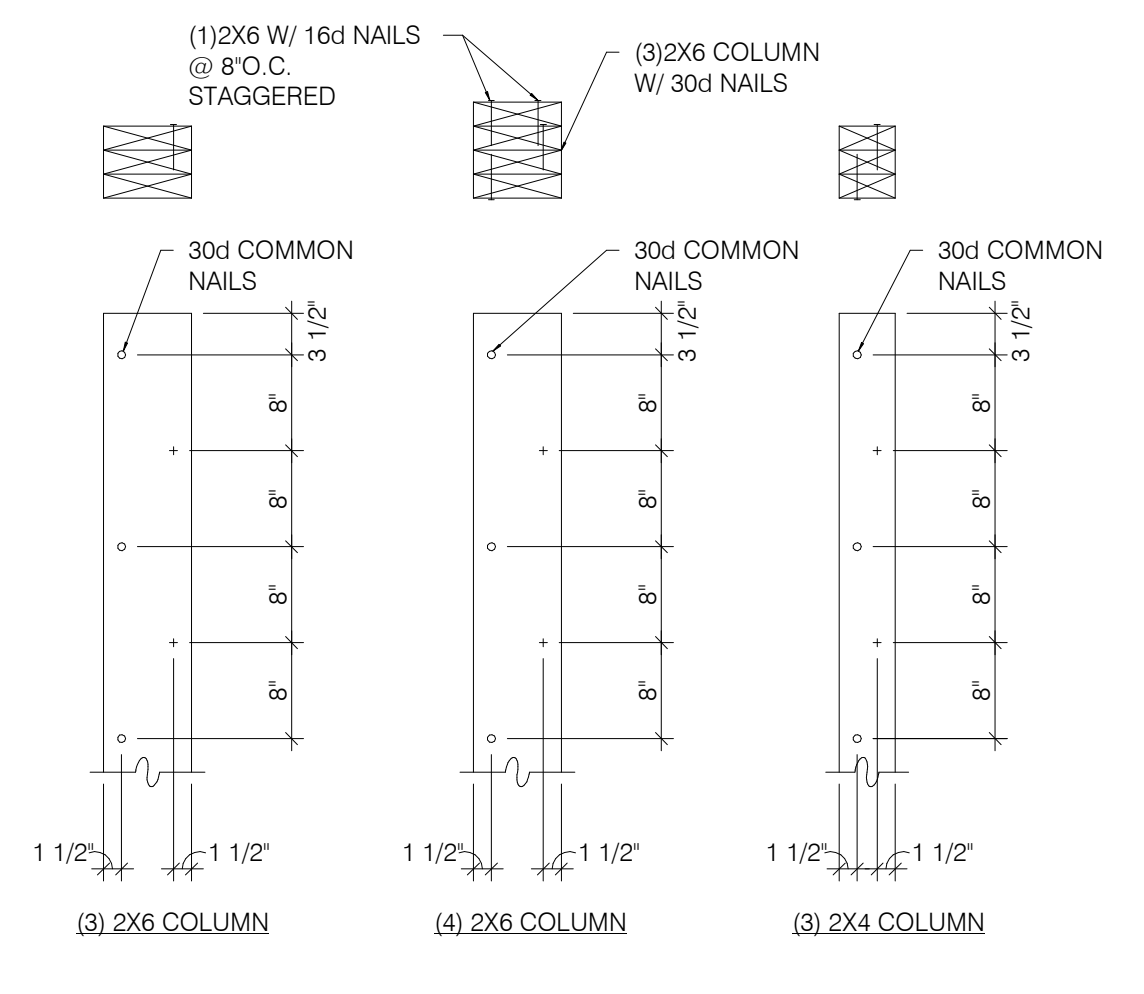


NAILING SCHEDULE N.T.S. **11**

PLYWOOD EDGE BLOCKING 1" = 1'-0" **9**

ROOF OPENING DETAIL 1" = 1'-0" **6**

WALL FRAMING DETAIL 1" = 1'-0" **1**

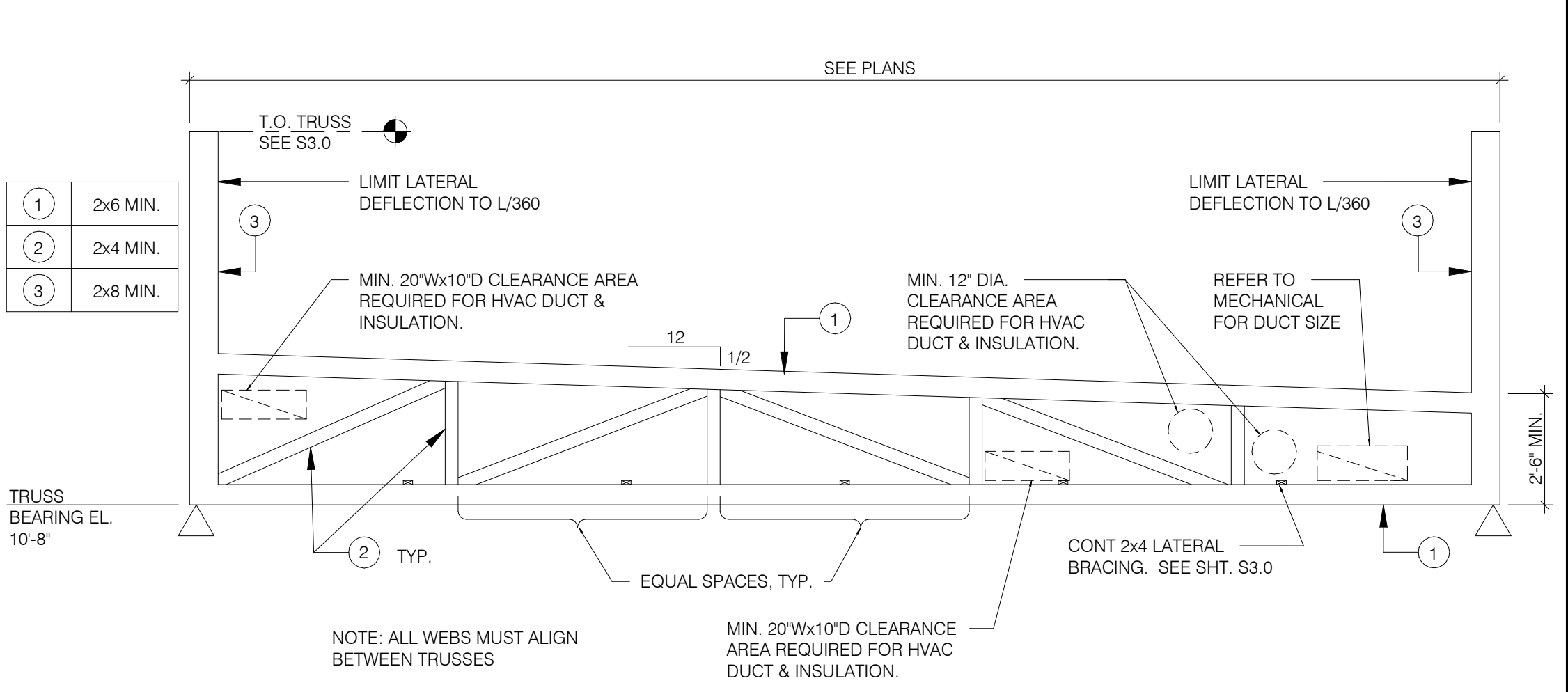


TRUSS SCHEDULE 1" = 1'-0" **7**

TRUSS TYPES	SINGLE TRUSS DESIGNATION	DOUBLE TRUSS DESIGNATION	BEARING POINT	COMMENTS
T1 - T23	X	XX	△	SEE NOTE 1.

NOTES:

1. HOLDOWN CONNECTORS SHALL BE SPECIFIED BY SITE SPECIFIC ARCHITECT/ ENGINEER BASED UPON LOADING DATA PROVIDED BY TRUSS DESIGNER.
2. PROVIDE SHOP DRAWINGS PRIOR TO FABRICATION.
3. TRUSS MEMBER SIZES ARE FOR REFERENCE ONLY. ACTUAL SIZE SHALL BE DETERMINED BY TRUSS MANUFACTURER BASED ON ACTUAL LOAD CONDITIONS AND CODES.

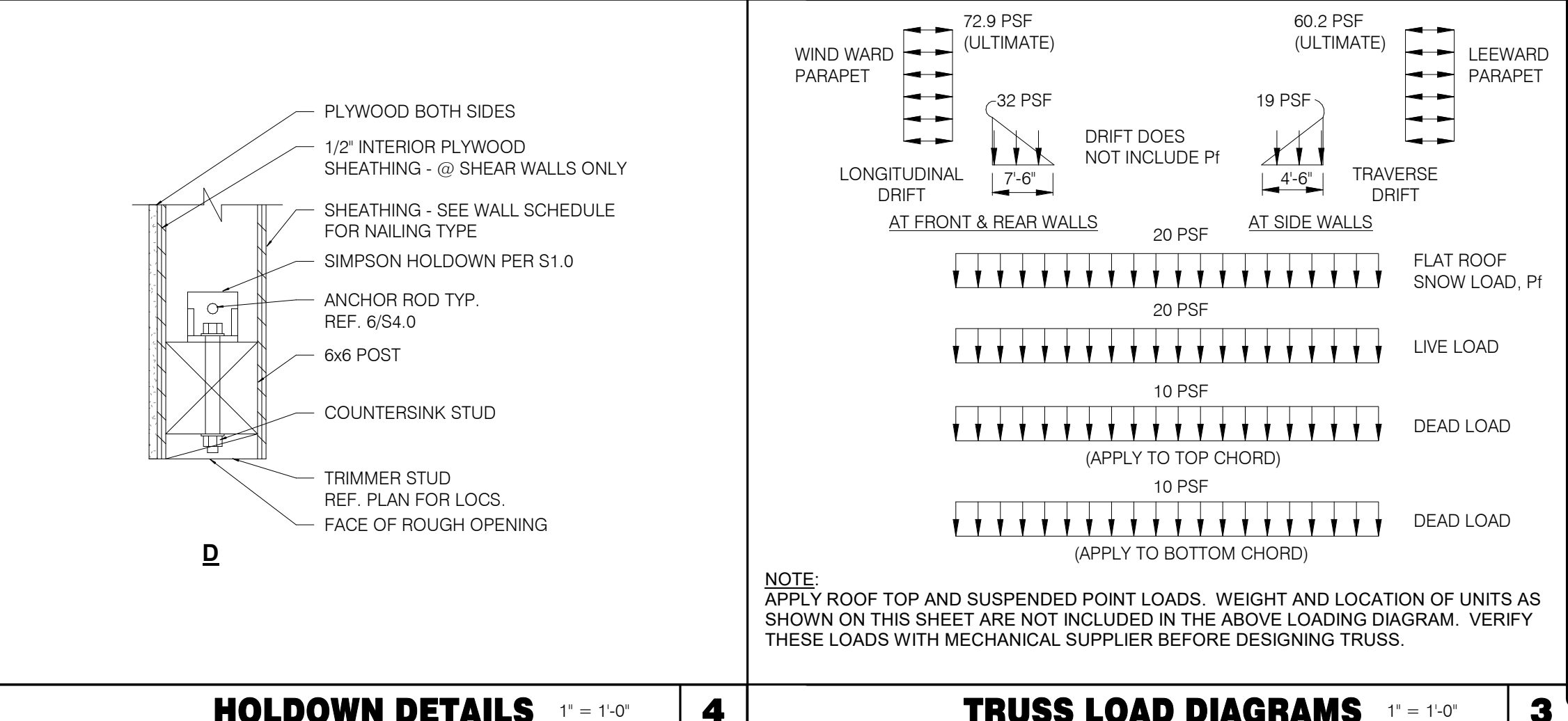
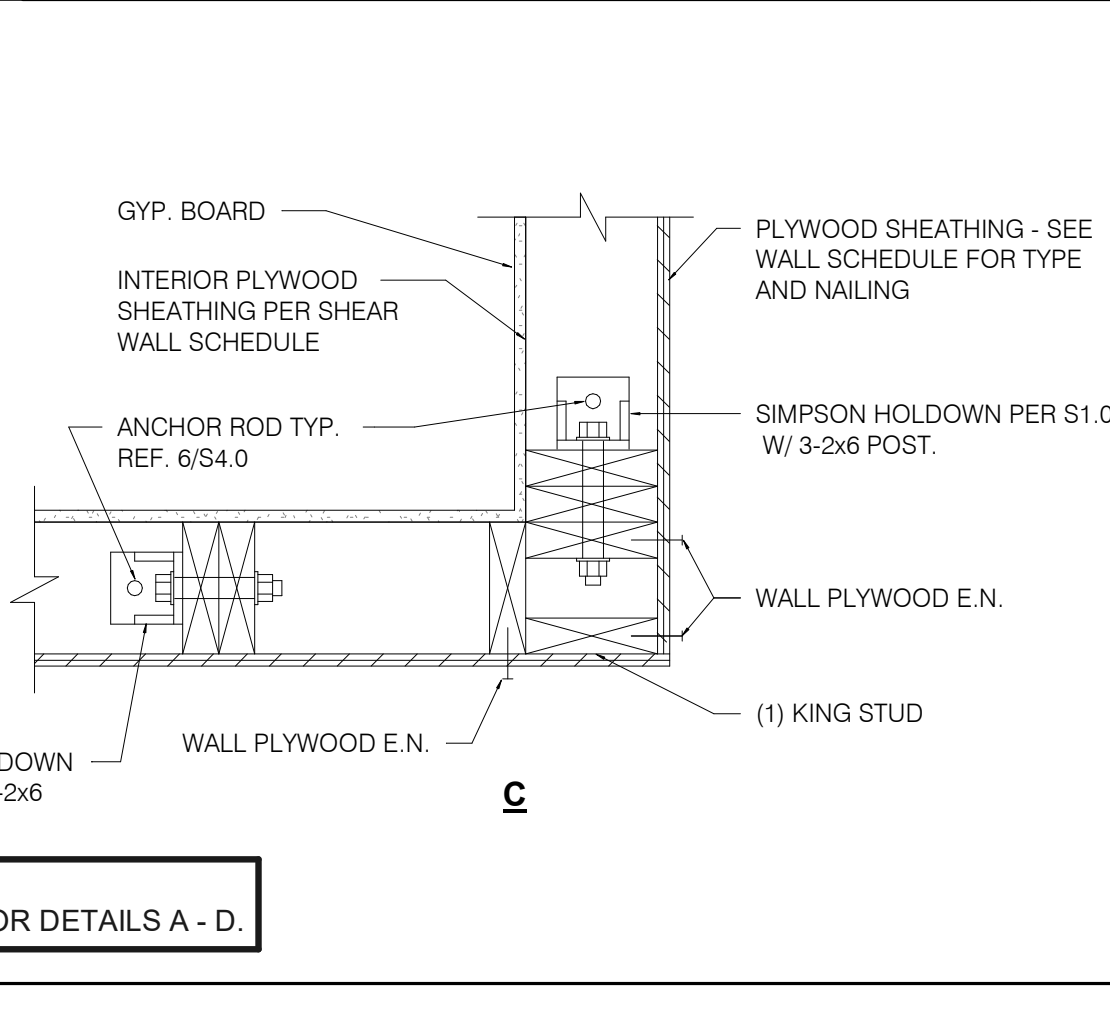
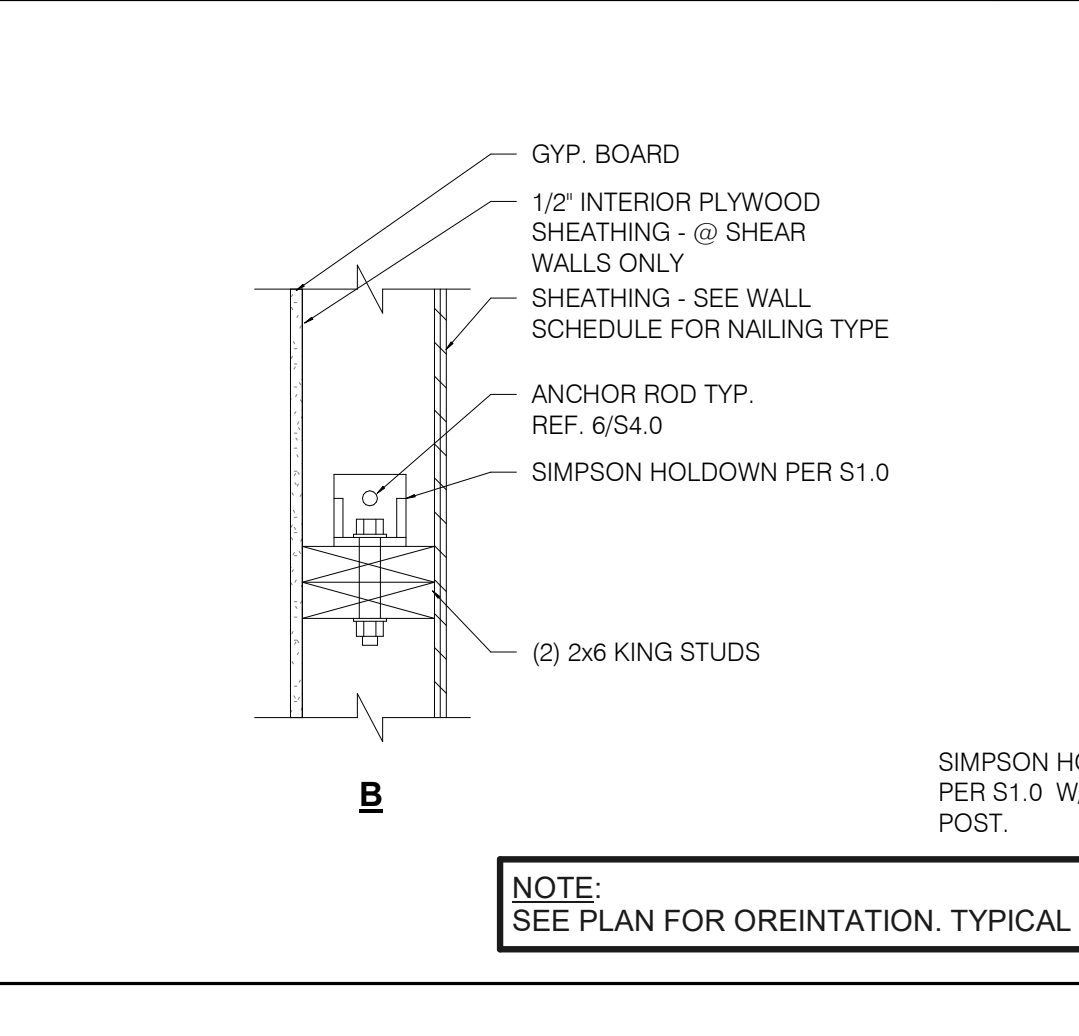
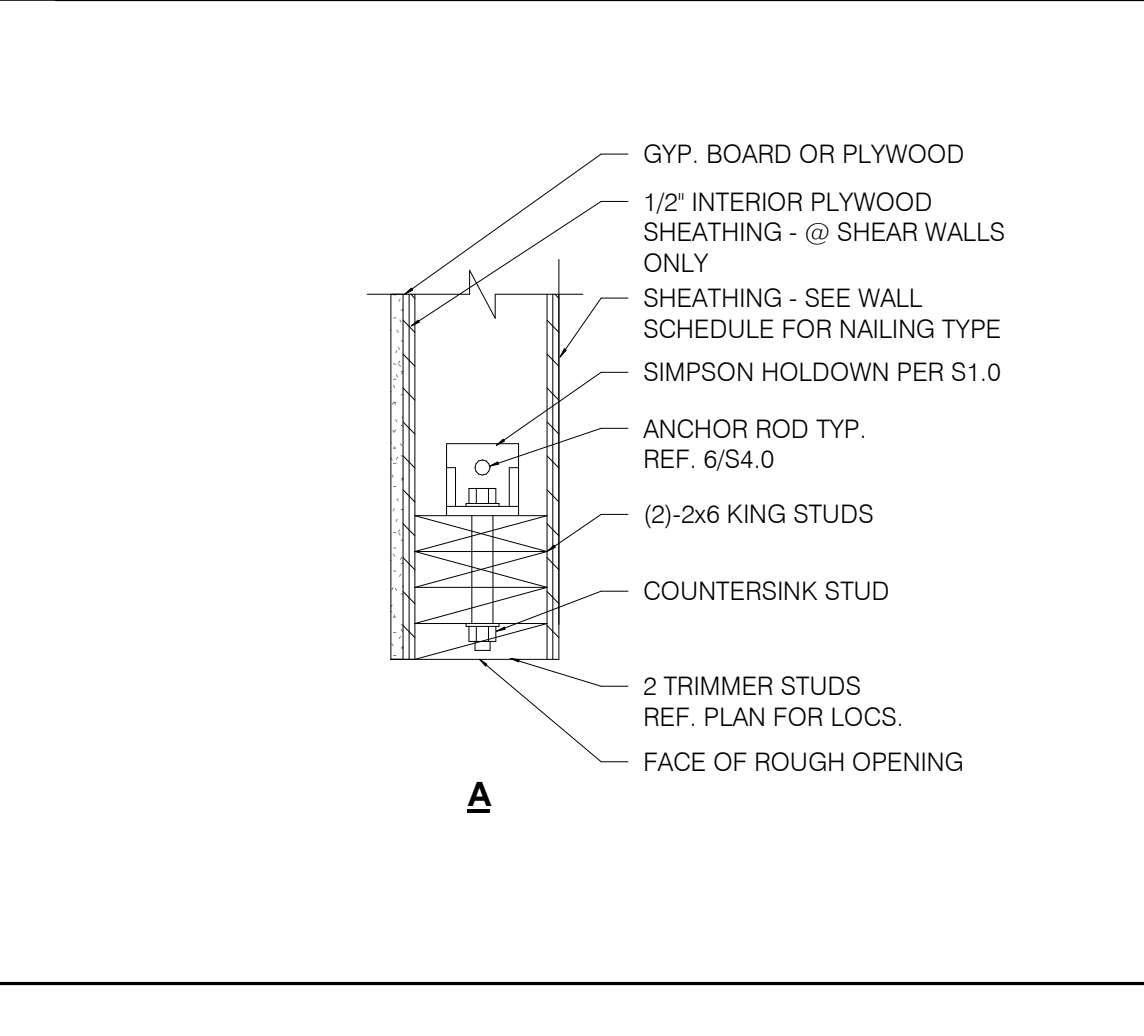


BUILT-UP 2X COLUMNS 1" = 1'-0" **12**

TYPICAL ROOF OPENING 1" = 1'-0" **10**

TRUSS SCHEDULE 1" = 1'-0" **7**

TRUSS ELEVATION 1" = 1'-0" **2**



DATE	REMARKS
09.17.21	Health Comments
03.11.22	Issued for Construction

CONTRACT DATE: 06.22.21
BUILDING TYPE: END. MED20
PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 315089
STORE NUMBER: 40164
PA/PM: SM
DRAWN BY.: RB
JOB NO.: 2019088.31

TACO BELL
18708 TELEGRAPH ROAD
BROWNSTOWN, MI 48183

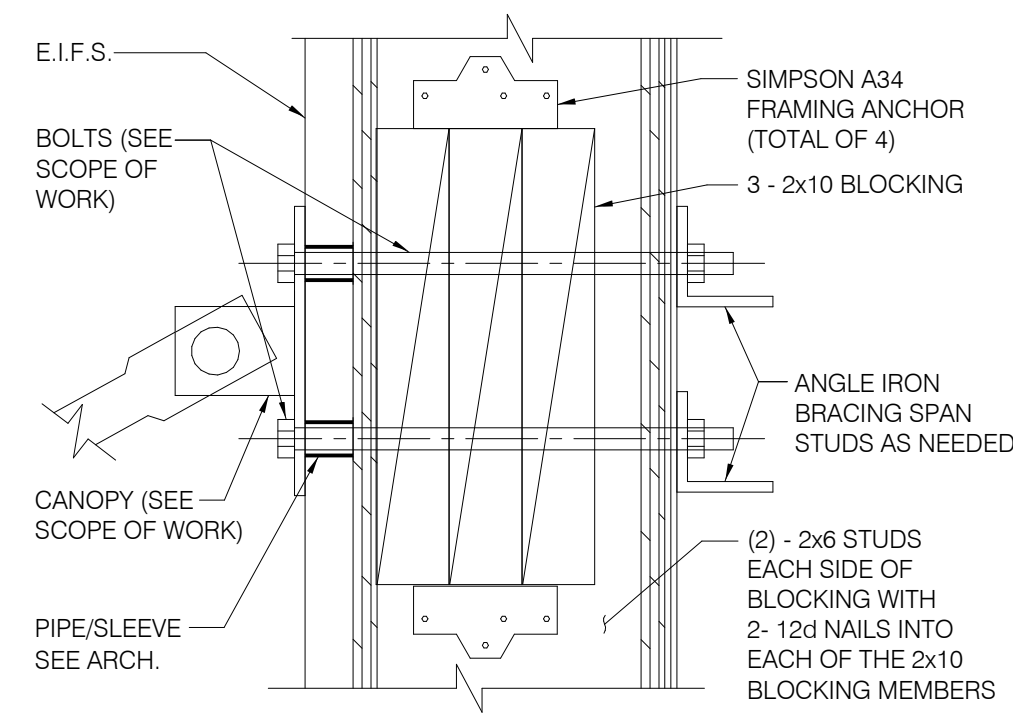


ENDEAVOR 2.0 STRUCTURAL DETAILS

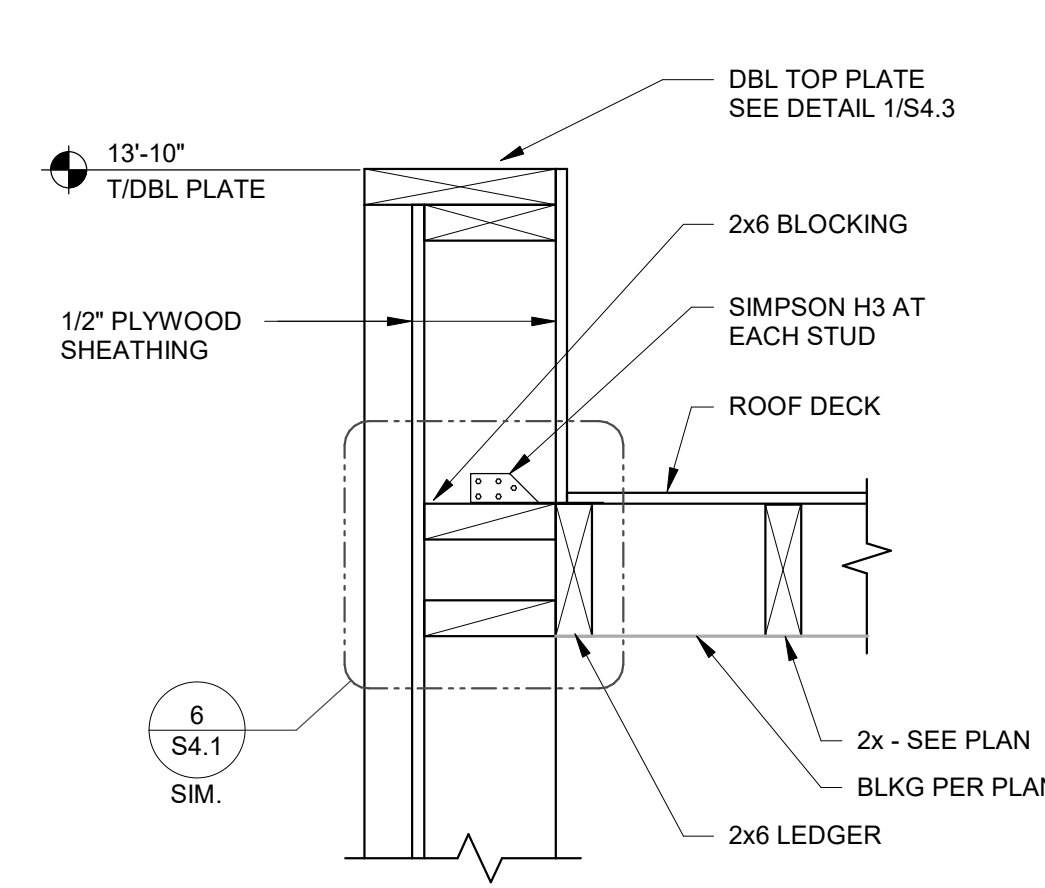
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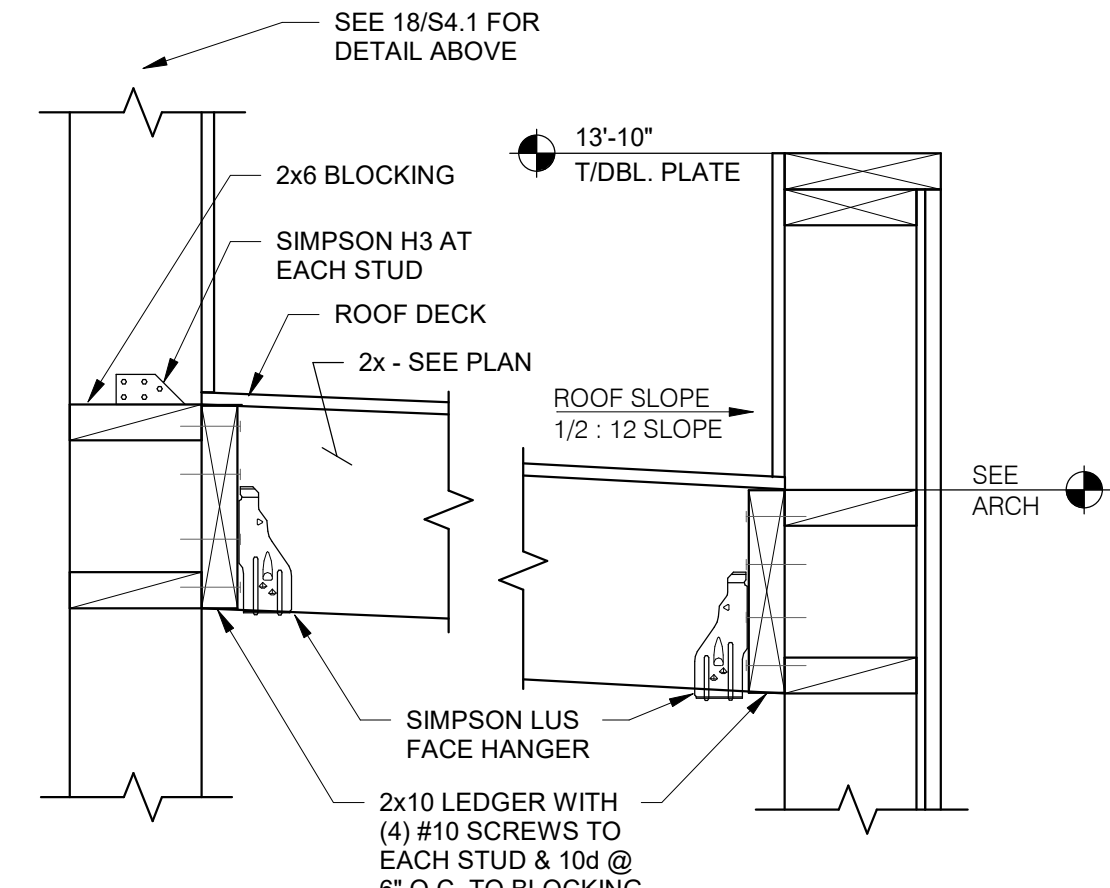
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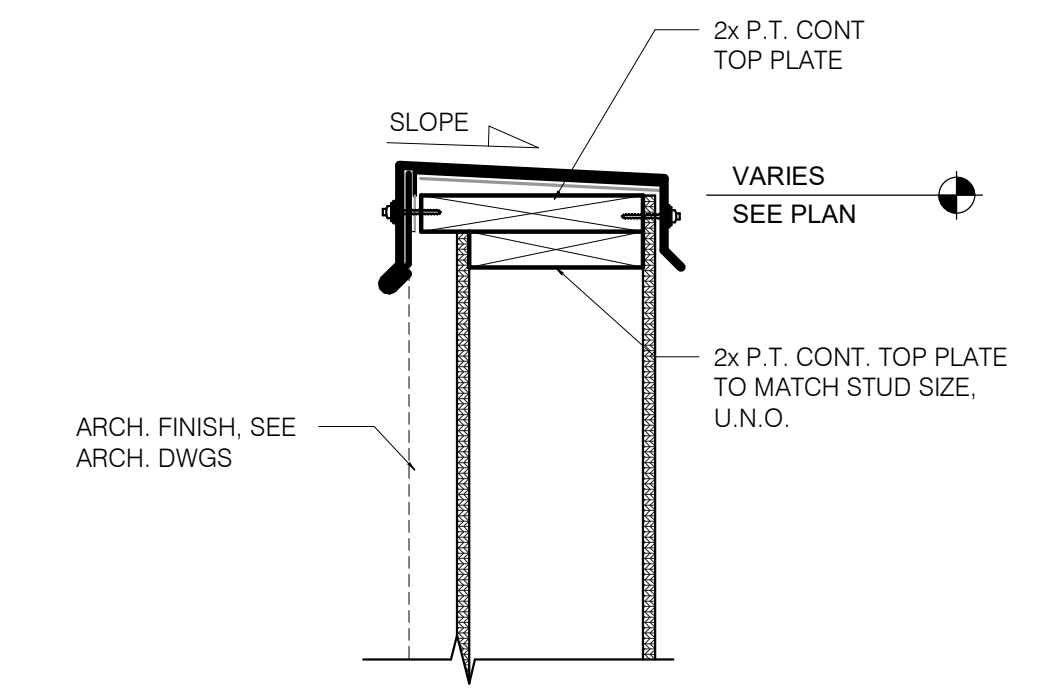
TIE-ROD BLOCKING 3" = 1'-0" **13**



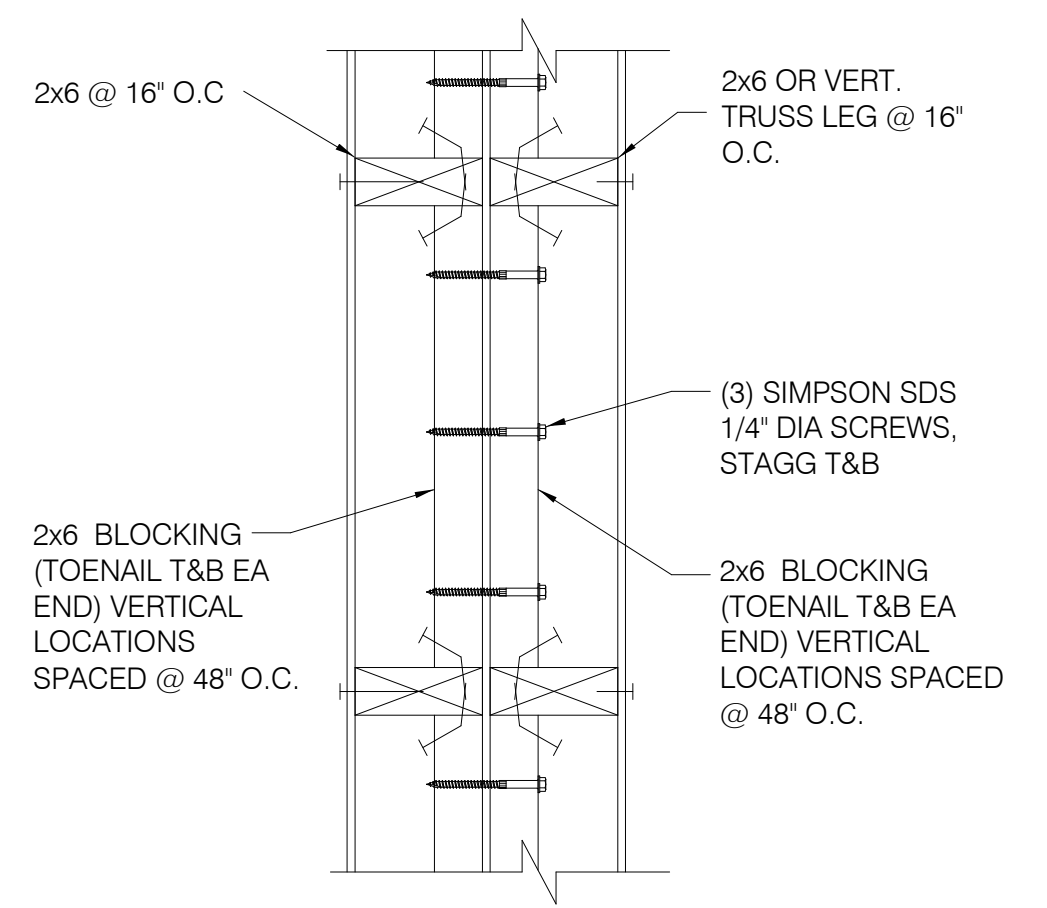
SECTION AT COOLER SIDES 1 1/2" = 1'-0" **9**



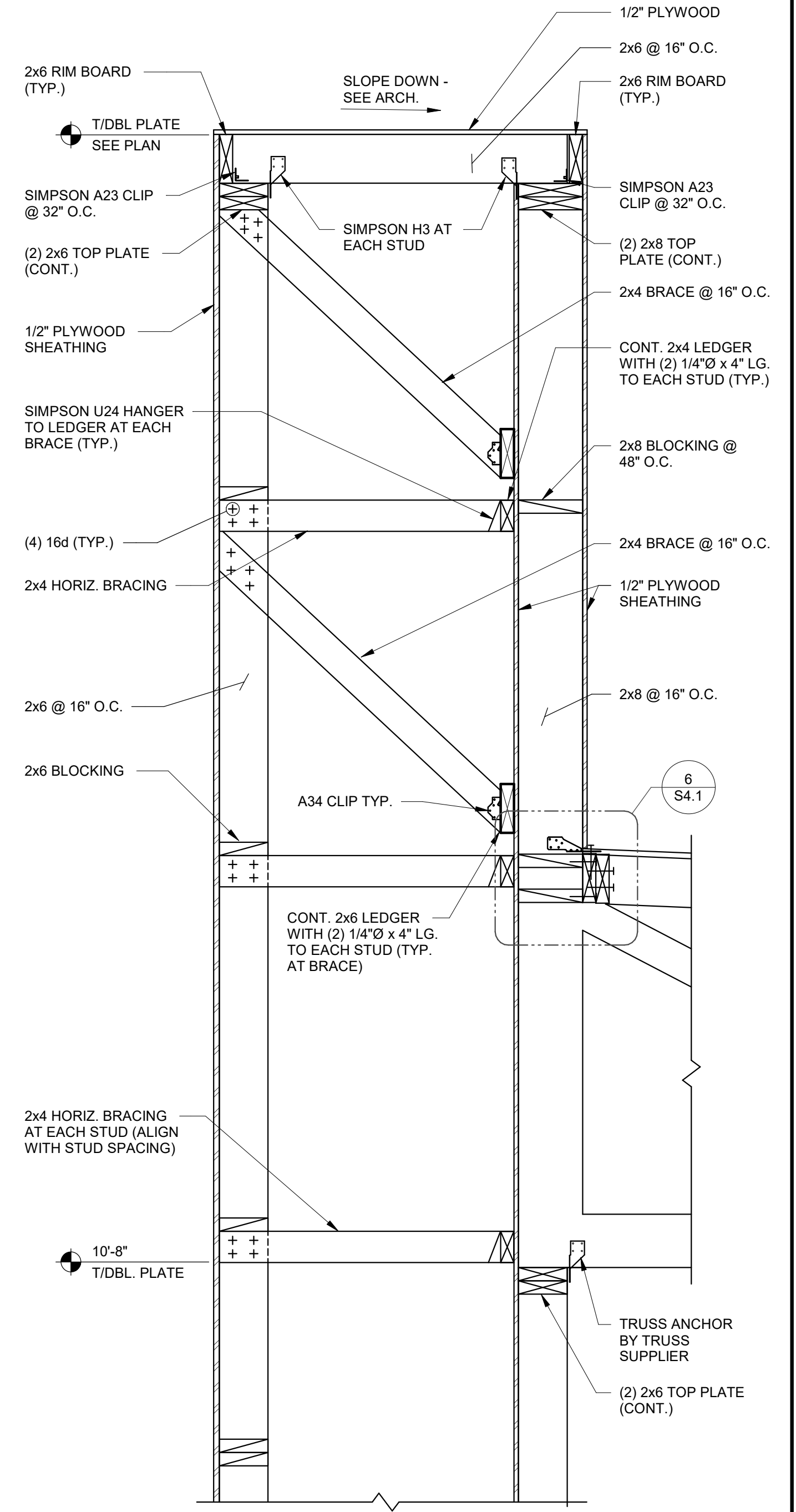
SECTION AT COOLER REAR 1 1/2" = 1'-0" **5**



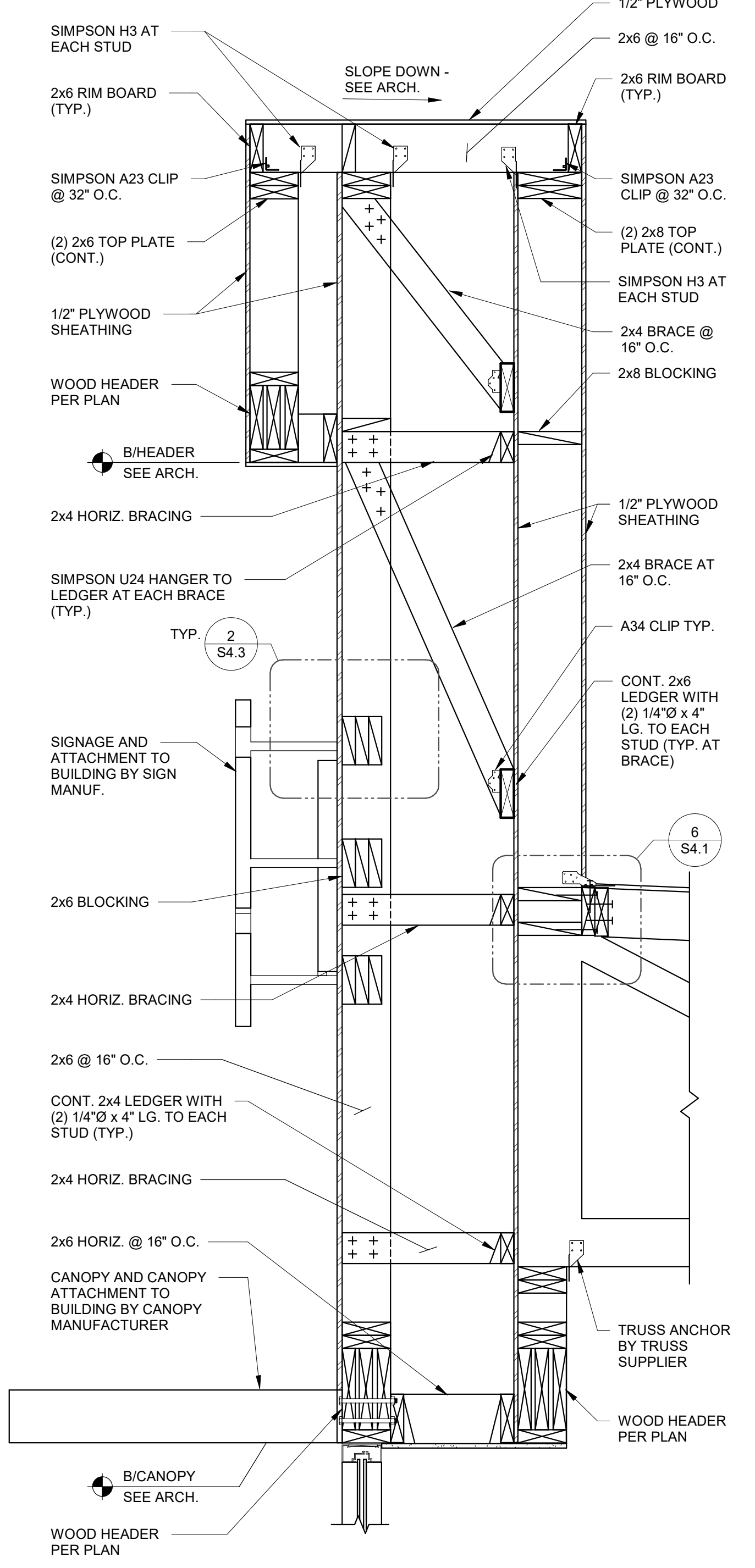
TYPICAL PARAPET CAP 1 1/2" = 1'-0" **1**



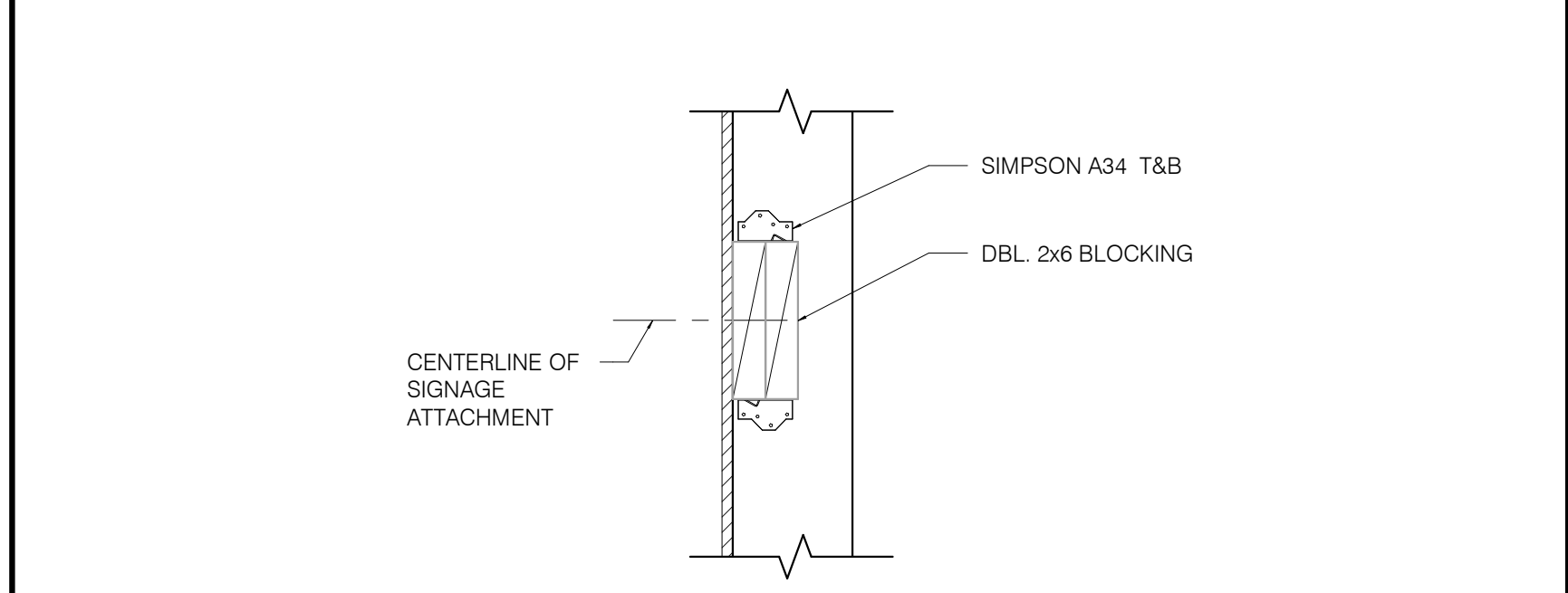
WALL DETAIL (PLAN VIEW) **14**



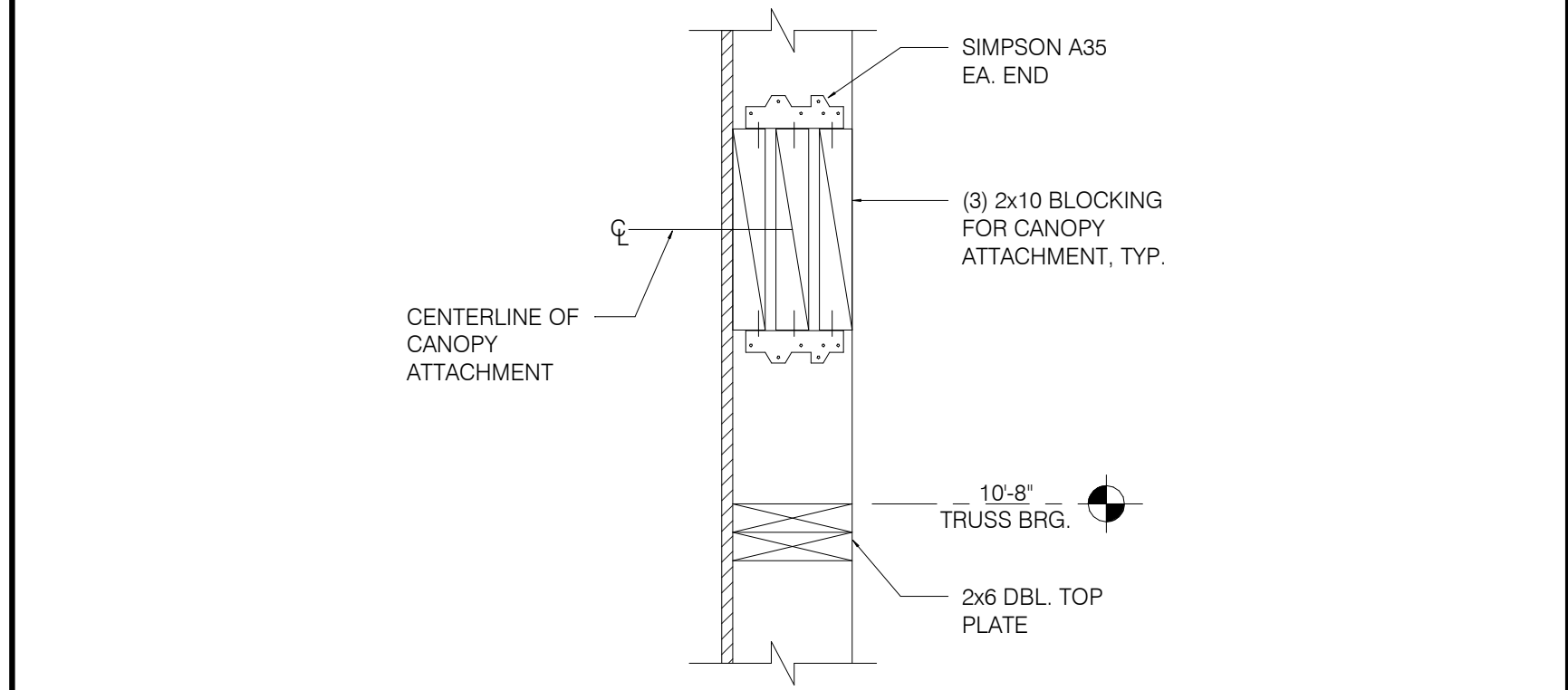
SECTION AT SIDE TOWER 1" = 1'-0" **12**



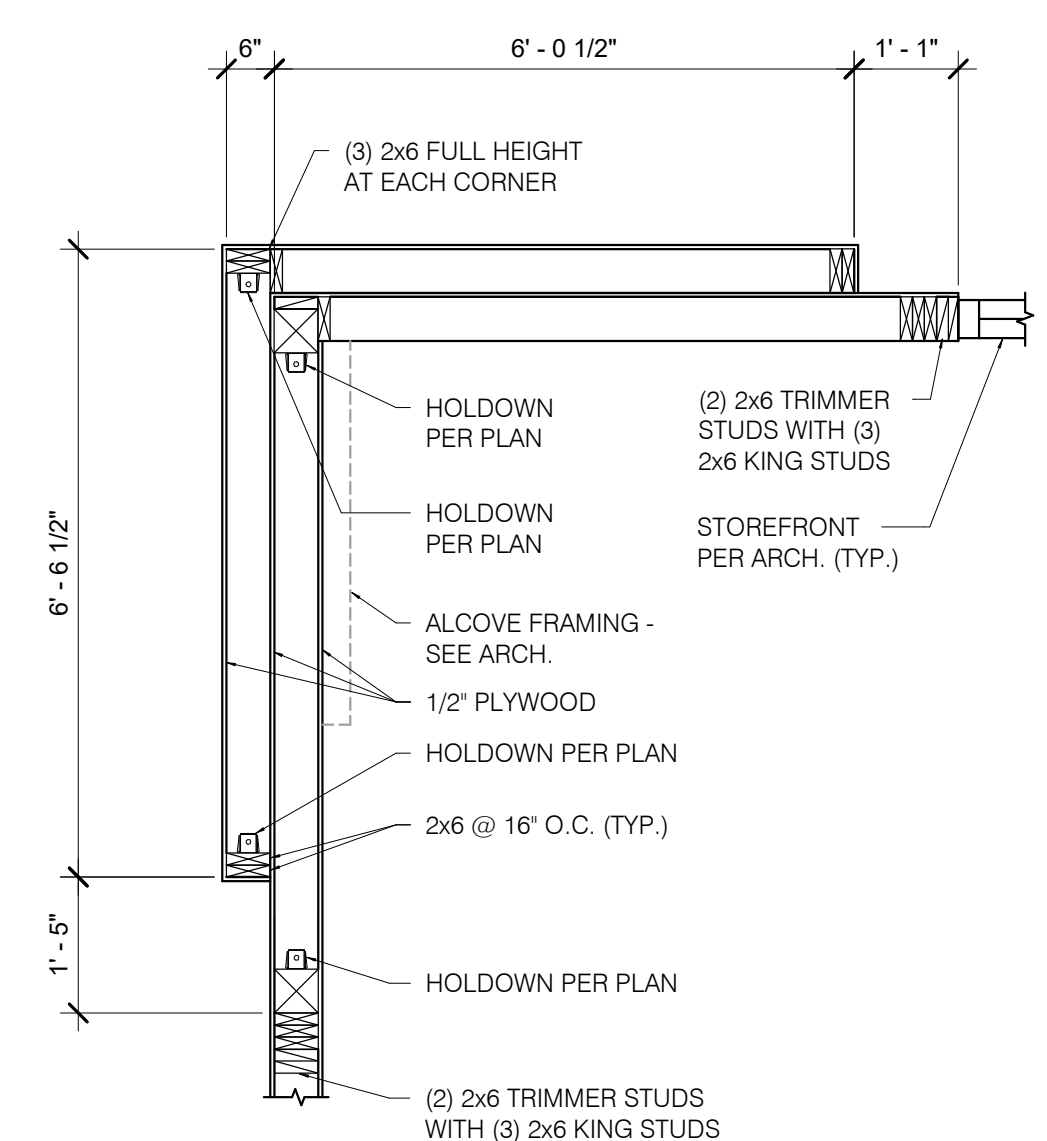
SIDE ENTRY TOWER FRAMING 1" = 1'-0" **6**



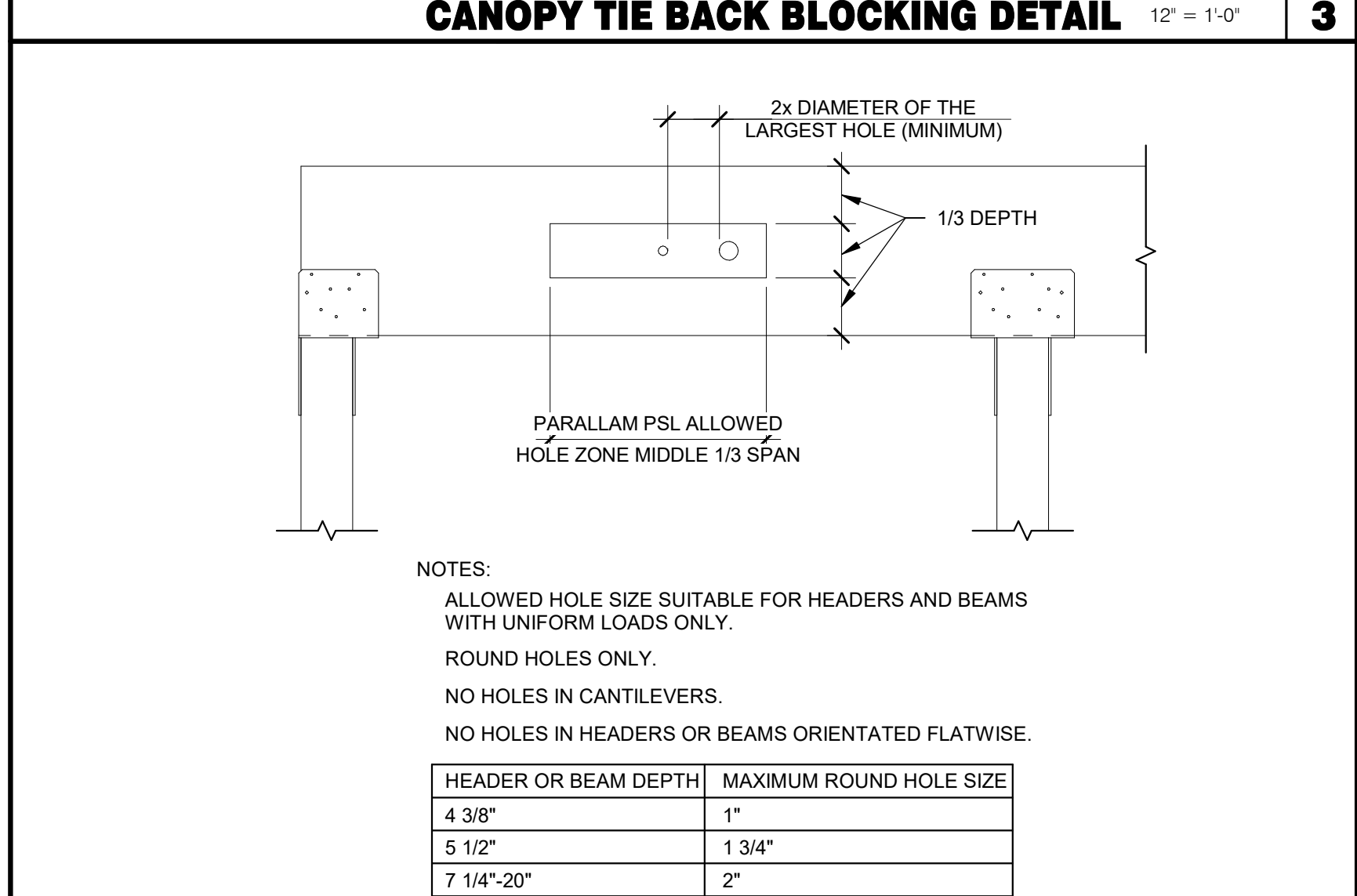
SIGNAGE & TOWER PANEL ATTACHMENT BLOCKING DETAIL 1 1/2" = 1'-0" **2**



CANOPY TIE BACK BLOCKING DETAIL 12" = 1'-0" **3**



FRONT TOWER FRAMING 1/2" = 1'-0" **20**



PSL BEAM PENETRATION DETAIL 3/4" = 1'-0" **4**

DATE	REMARKS
1 09.17.21	Health Comments
03.11.22	Issued for Construction

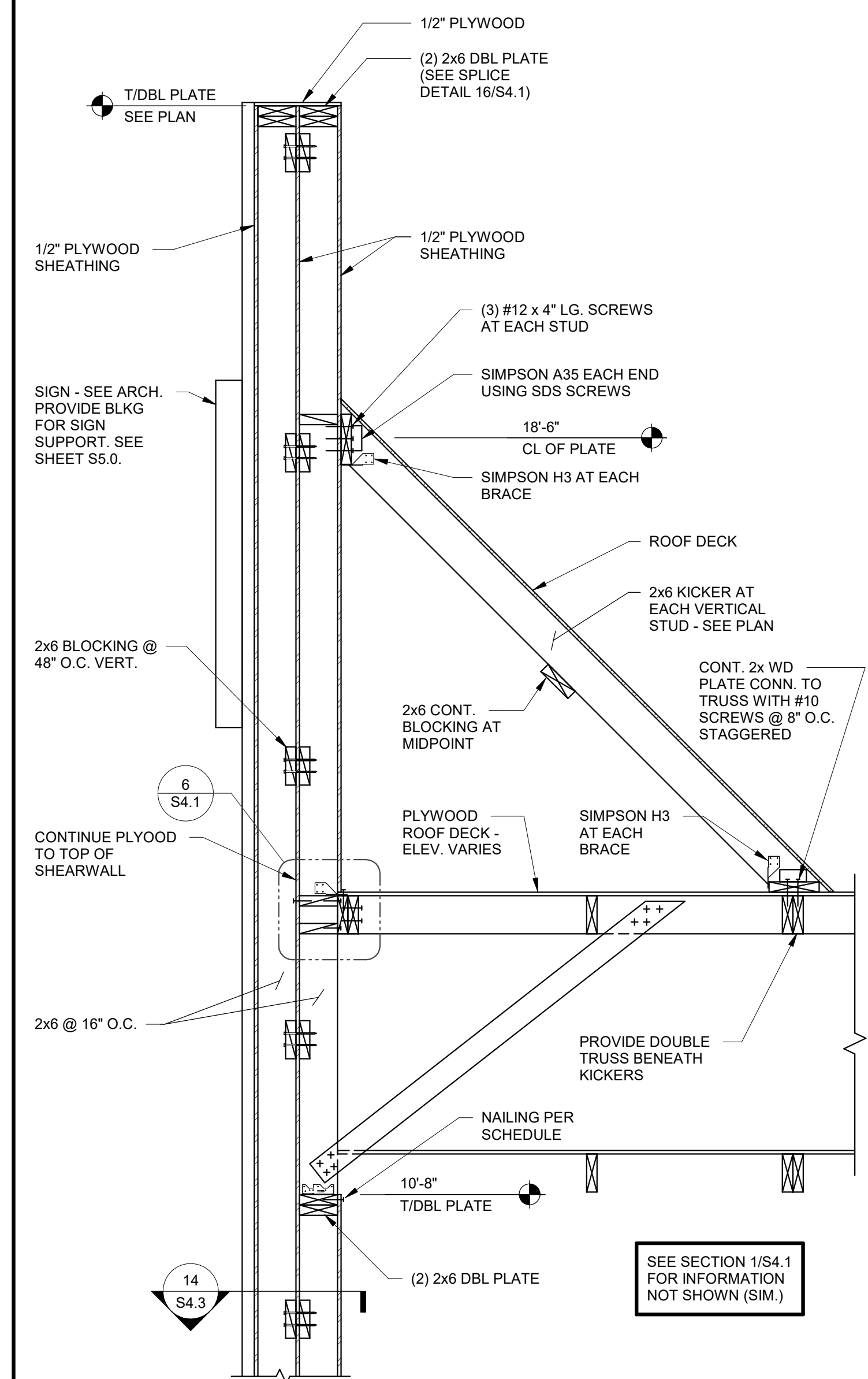
CONTRACT DATE: 06.22.21
BUILDING TYPE: END, MED20
PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 315089
STORE NUMBER: 40164
PA/PM: SM
DRAWN BY.: RB
JOB NO.: 2019088.31

TACO BELL
18708 TELEGRAPH ROAD
BROWNSTOWN, MI 48183



ENDEAVOR 2.0
STRUCTURAL
DETAILS

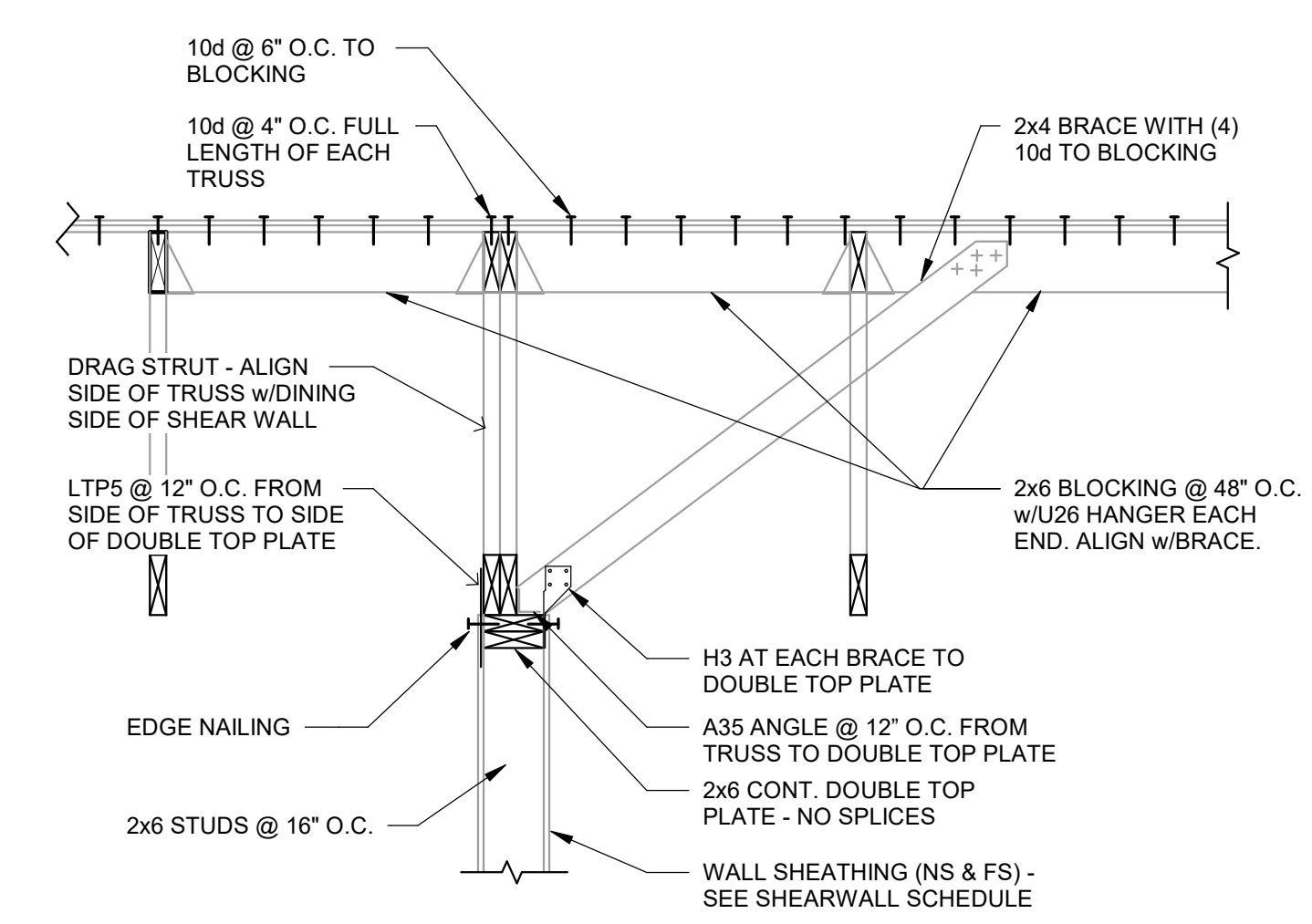
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DATE	REMARKS
09.17.21	Health Comments
03.11.22	Issued for Construction

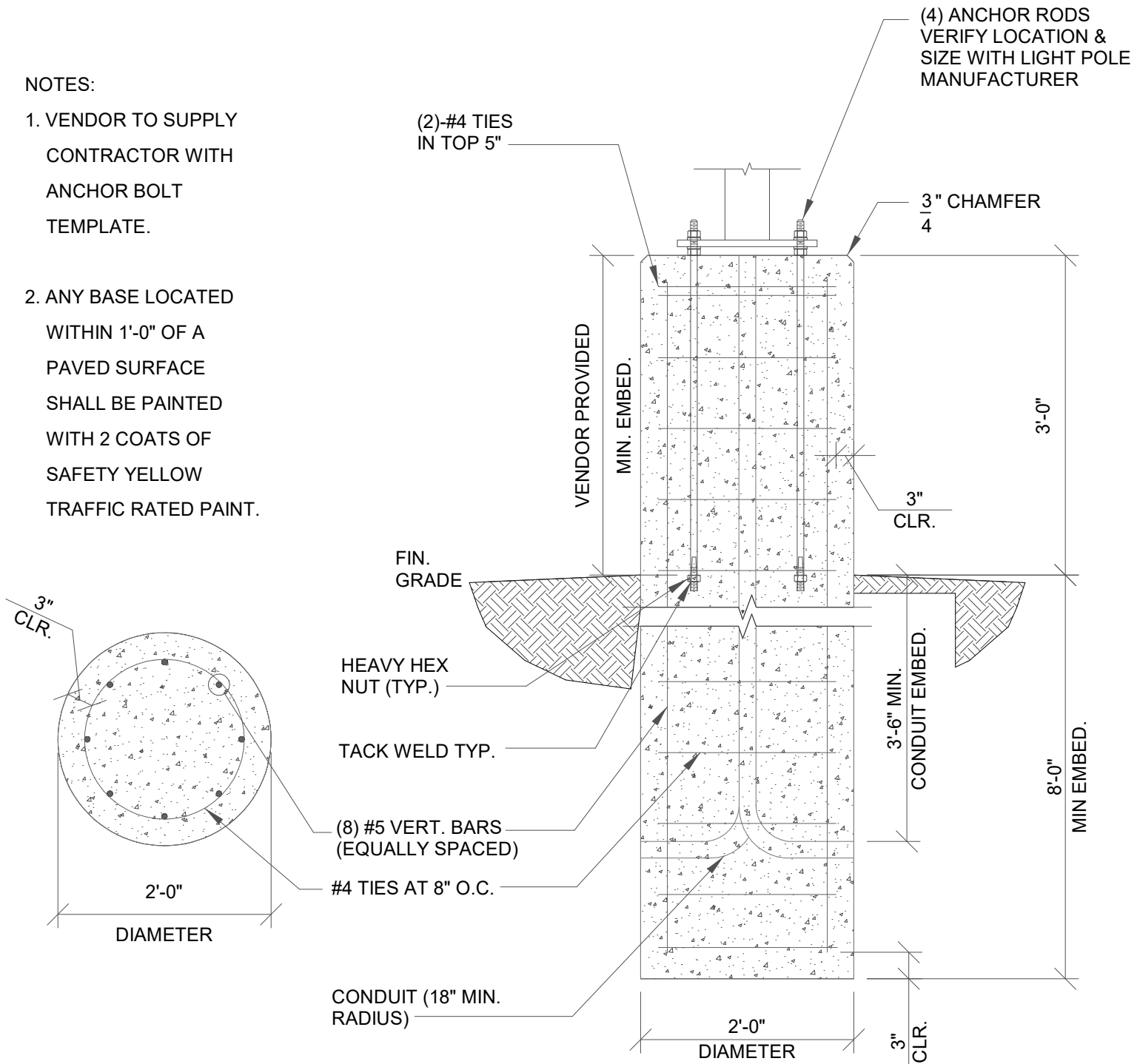
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BUILDING TYPE: END. MED20
PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 315089
STORE NUMBER: 40164
PA/PM: SM
DRAWN BY.: RB
JOB NO.: 2019088.31

FRONT TOWER SECTION 3/4" = 1'-0" **1**



INTERIOR SHEAR WALL 3/4" = 1'-0" **2**

- NOTES:
- VENDOR TO SUPPLY CONTRACTOR WITH ANCHOR BOLT TEMPLATE.
 - ANY BASE LOCATED WITHIN 1'-0" OF A PAVED SURFACE SHALL BE PAINTED WITH 2 COATS OF SAFETY YELLOW TRAFFIC RATED PAINT.



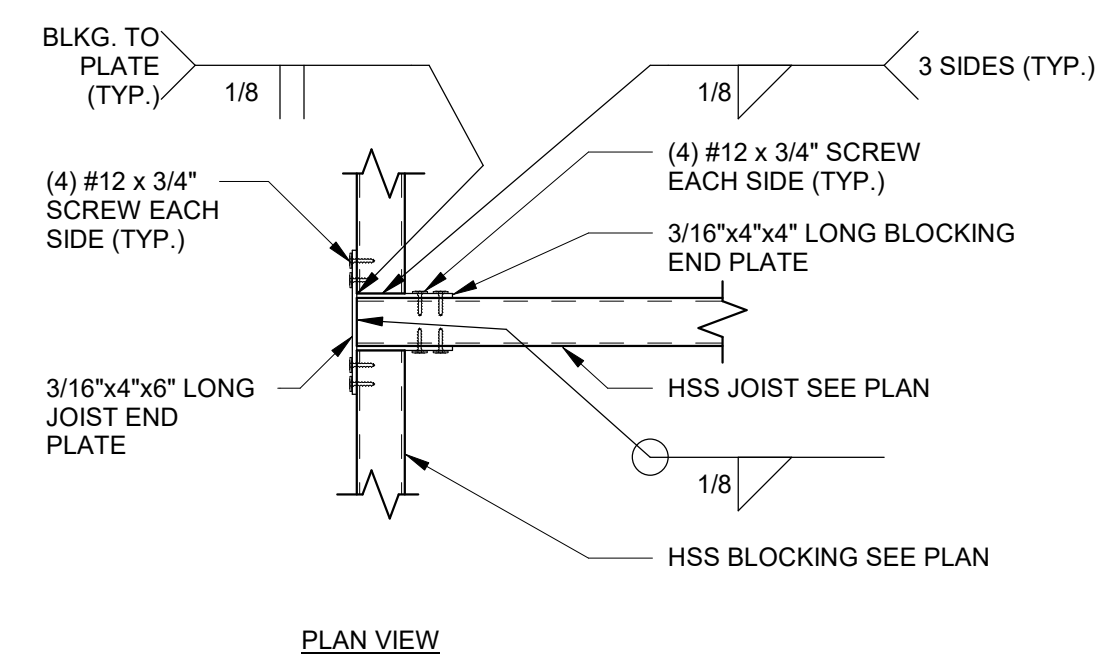
LIGHT POLE FOUNDATION DETAIL 3/4" = 1'-0" **3**

TACO BELL
18708 TELEGRAPH ROAD
BROWNSTOWN, MI 48183



**ENDEAVOR 2.0
STRUCTURAL
SECTIONS**

S4.4



STRUCTURAL STEEL:
MATERIAL PROPERTIES:
 PLATE: ASTM A36 UNO
 TUBE: ASTM A500 GRADE B (Fy = 46 KSI)
 BOLTS: ASTM A325

DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO THE 2010 AISC SPECIFICATIONS.

FIELD VERIFY ALL CONDITIONS AND CONNECTIONS TO THE EXISTING CONSTRUCTION BEFORE FABRICATION.

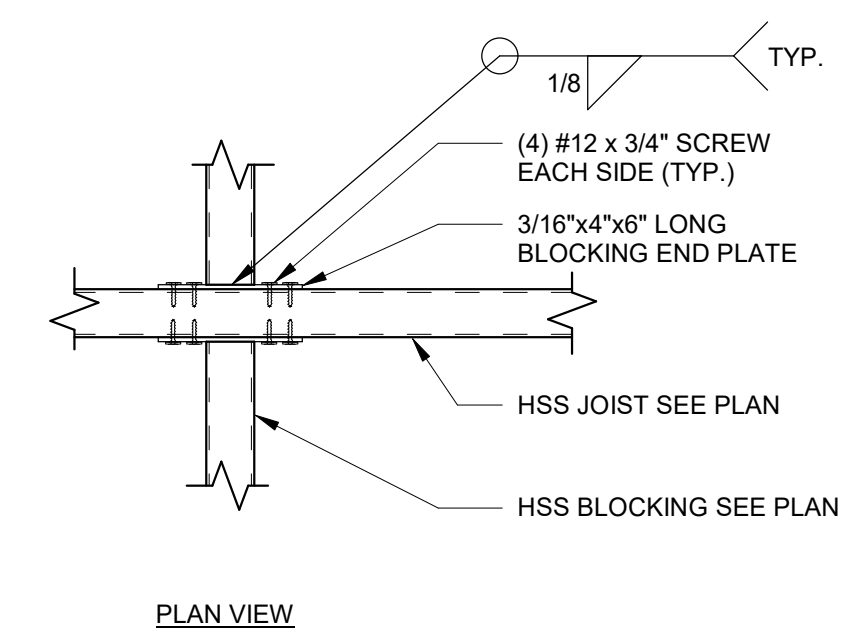
ALL CANOPY STEEL AND CLIPS SHALL BE HOT DIP GALVANIZED.

ALL SCREWS SHALL BE COATED FOR CORROSION RESISTANCE.

ALL WELDING SHALL BE DONE USING E-70XX ELECTRODES IN ACCORDANCE WITH THE LATEST AWS SPECIFICATIONS.

EDGE BLOCKING TO JOIST 1 1/2" = 1'-0" **5**

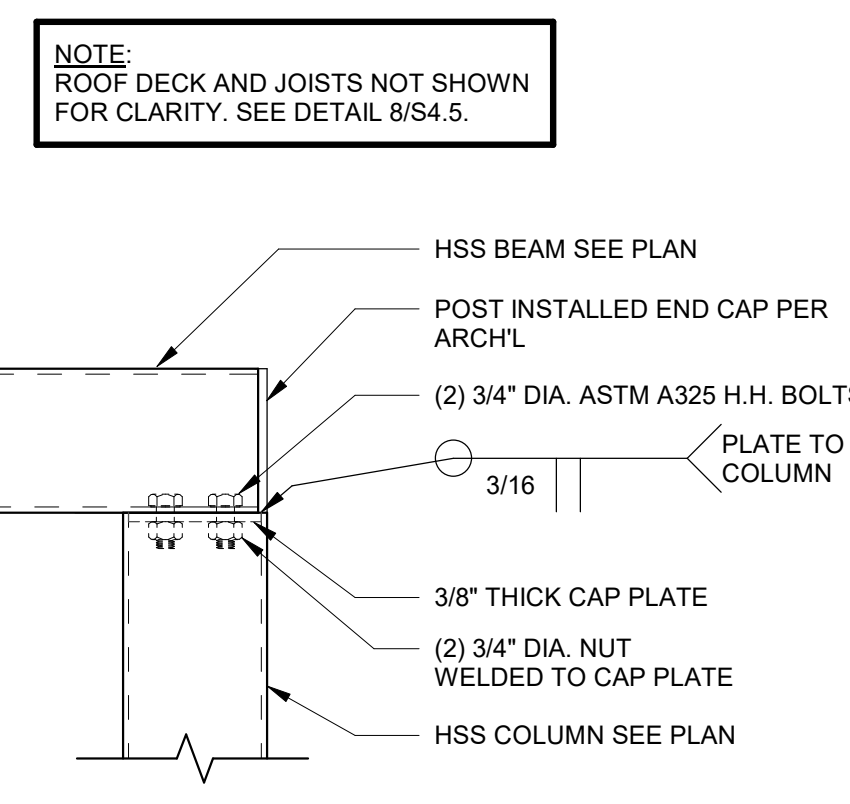
CANOPY FRAMING STEEL NOTES **1**



- (01) HSS4x2x1/8 (LSV) HOT DIPPED GALVANIZED BLOCKING AT EACH END OF JOISTS.
- (02) HSS1x1x1/8 HOT DIPPED GALVANIZED INTERMEDIATE BLOCKING @ 24" O.C.
- (03) HSS4x2x1/8 (LSV) HOT DIPPED GALVANIZED STEEL JOISTS AT 18" O.C. (LSV). USE HSS 4x4x1/8 AT END JOIST FOR ROOF ATTACHMENTS.
- (04) 22 GAGE MAGNA-LOC 180 ROOF PANELS - ATTACH AT EDGE USING #12 x 3/4" SCREWS WITH NEOPRENE WASHERS AT 6" O.C. AT EDGES AND 12" O.C. AT FIELD - REFER TO MFR. INSTALLATION GUIDE FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- (05) HSS6x6x1/4 HOT DIPPED GALVANIZED STEEL BEAM.

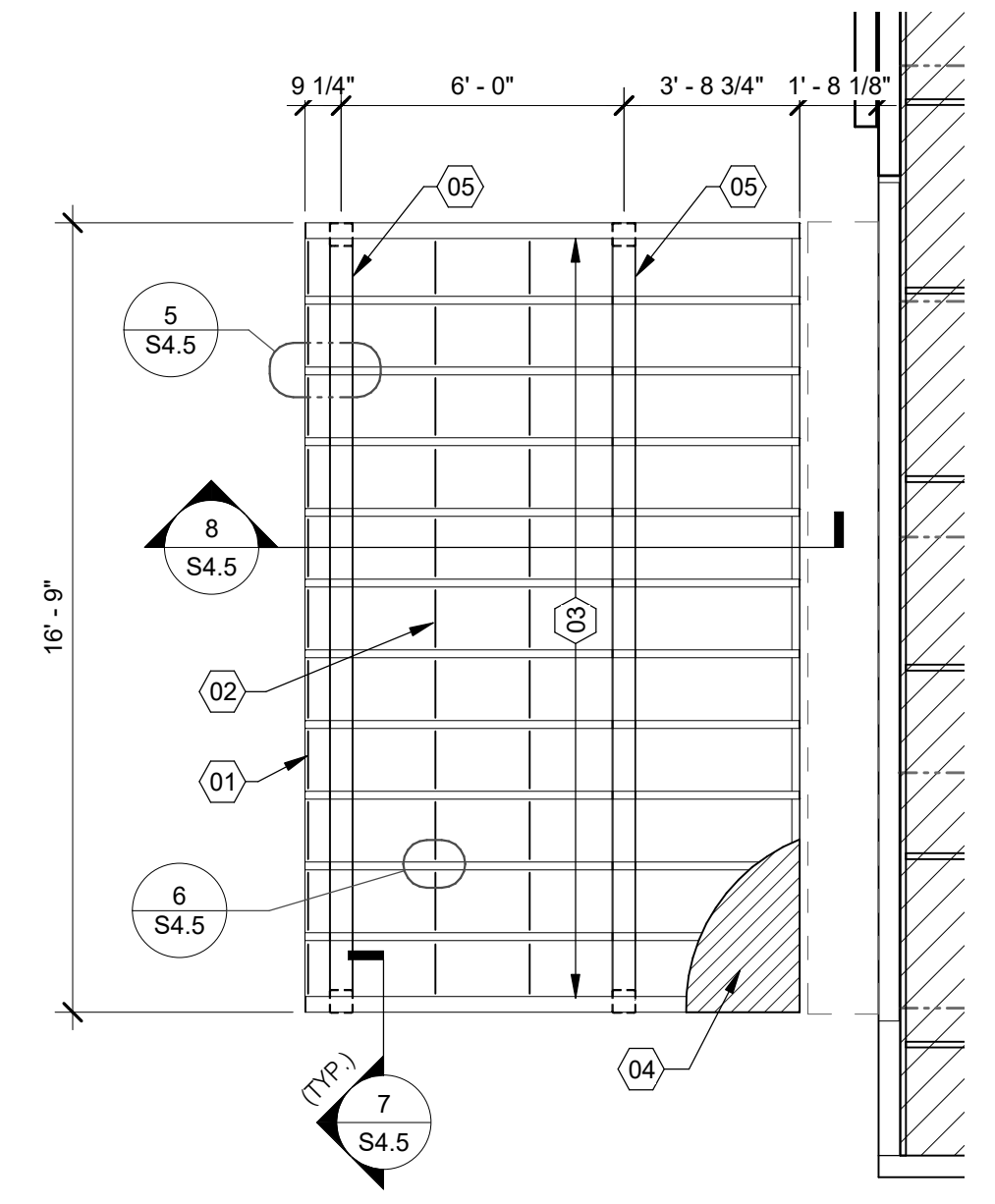
INTERIOR BLOCKING TO JOIST 1 1/2" = 1'-0" **6**

CANOPY FRAMING KEYNOTES **2**

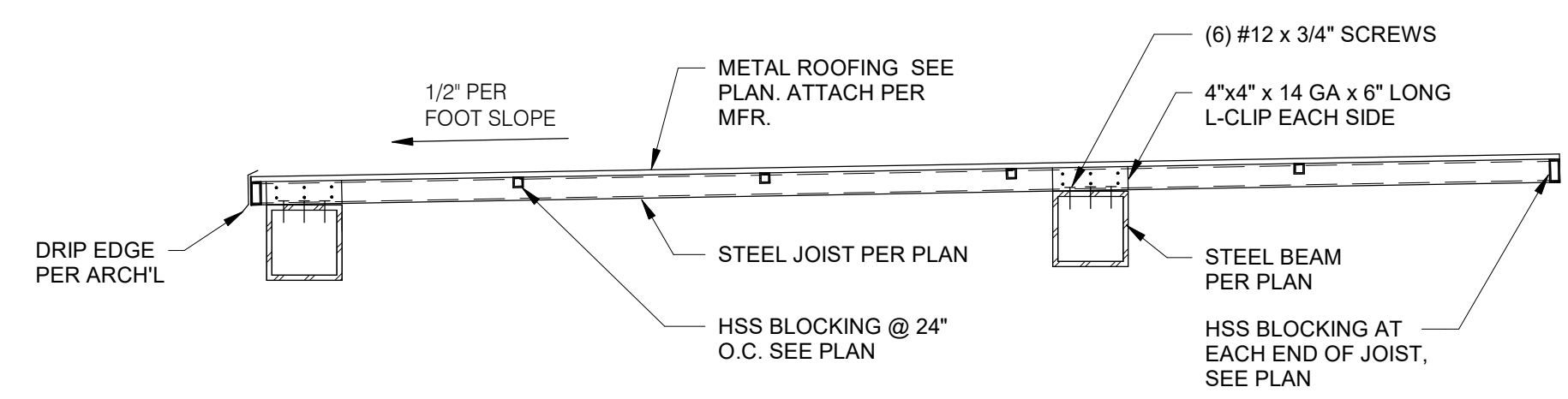


NOTE:
 ROOF DECK AND JOISTS NOT SHOWN FOR CLARITY. SEE DETAIL 8/S4.5.

BEAM TO COLUMN 1 1/2" = 1'-0" **7**



CANOPY ROOF FRAMING 1/4" = 1'-0" **3**



CANOPY DETAIL 3/4" = 1'-0" **8**

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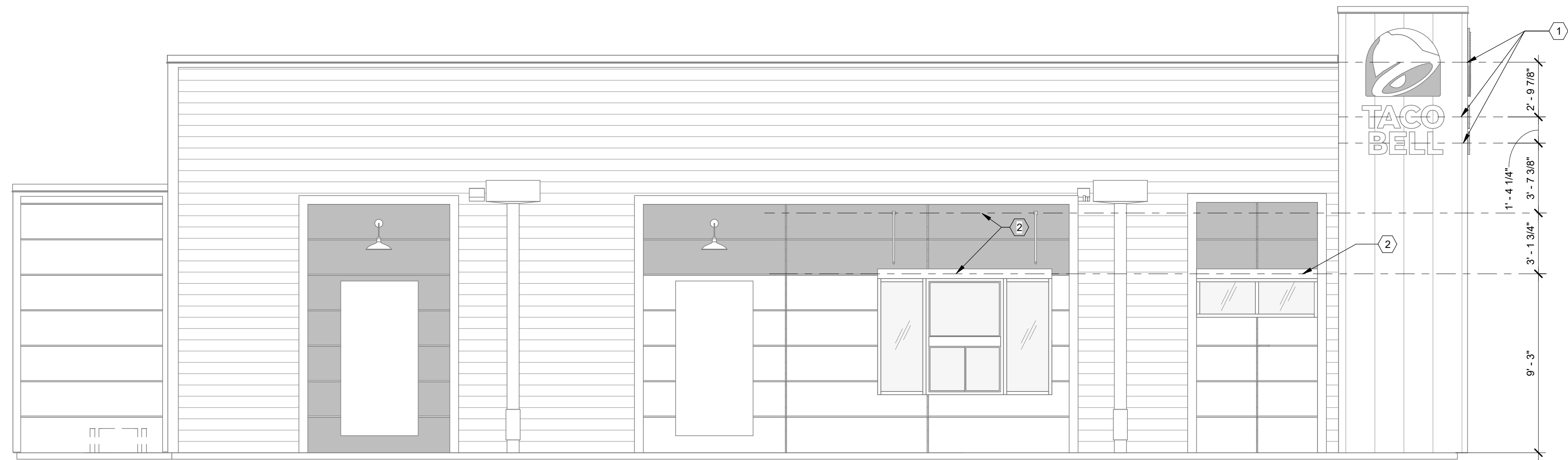
TACO BELL
 18708 TELEGRAPH ROAD
 BROWNSTOWN, MI 48183



**ENDEAVOR 2.0
 CANOPY PLANS
 & DETAILS**

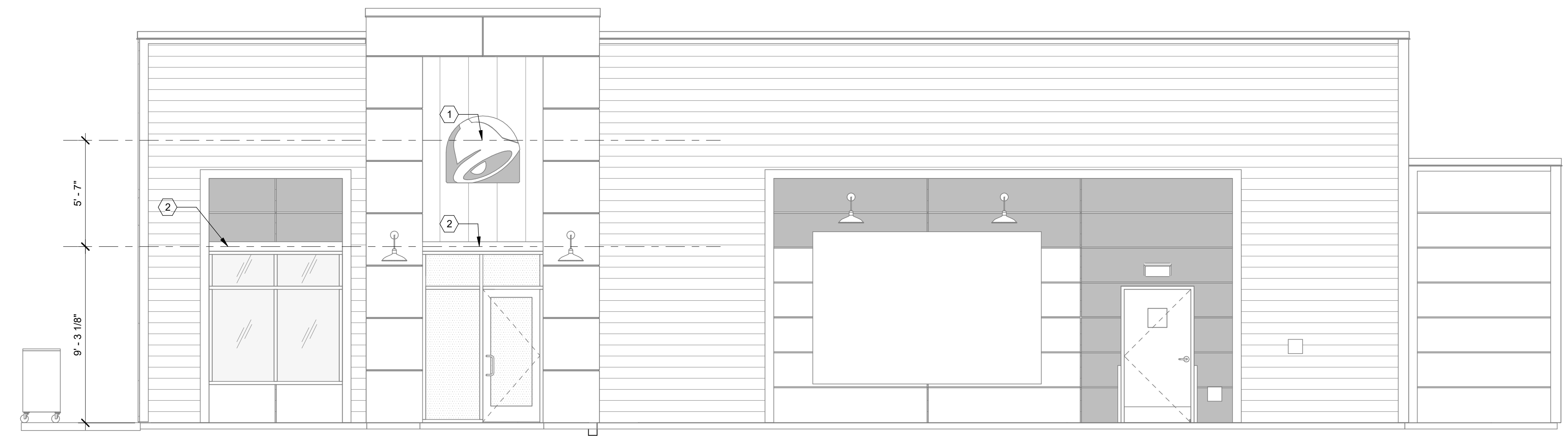
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PLOT DATE: 3/9/2022 10:21:02 AM

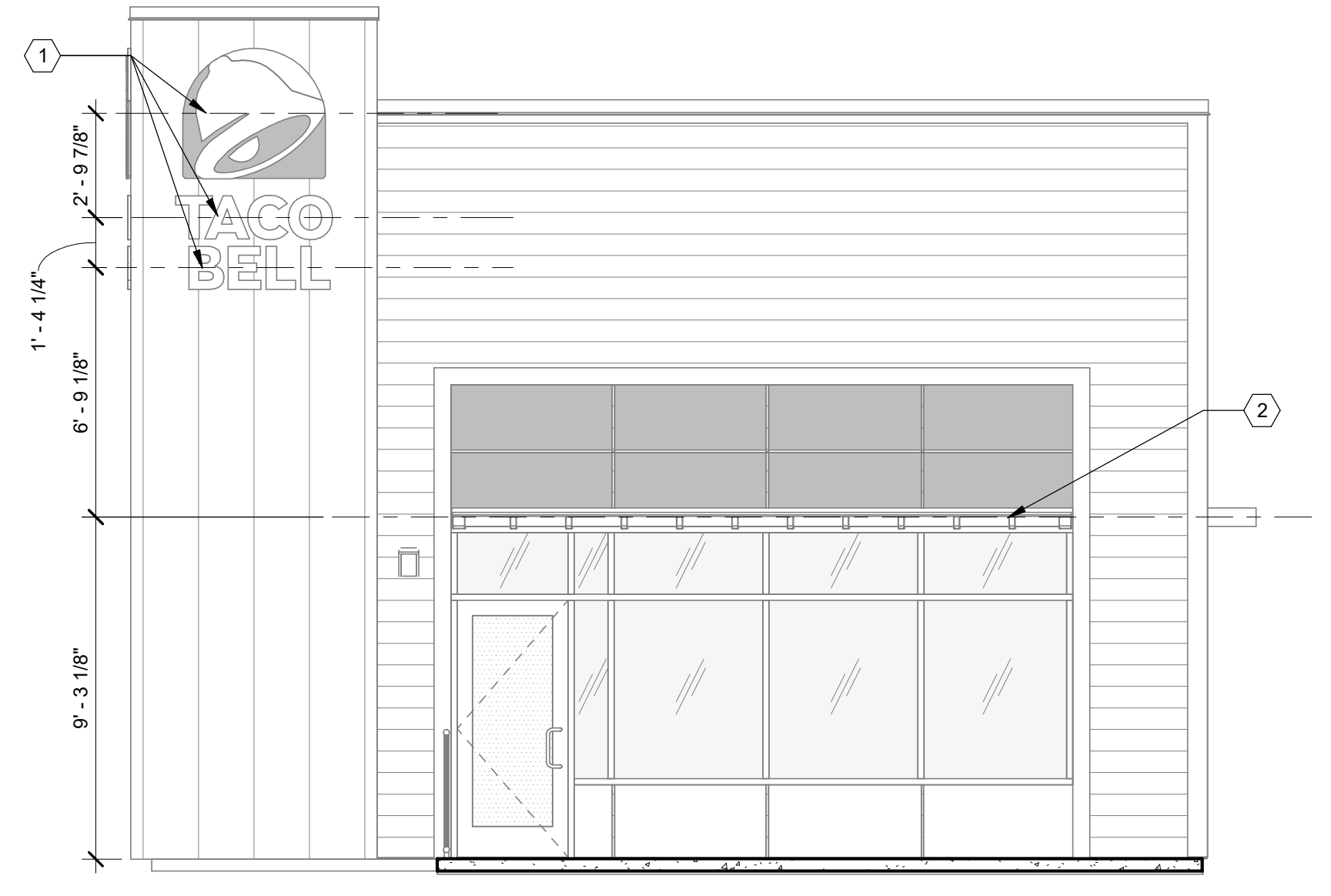


COORDINATE BLOCKING REQUIREMENTS WITH MANUFACTURER

SOUTH ELEVATION 1/4" = 1'-0" **A**



NORTH ELEVATION 1/4" = 1'-0" **B**



EAST ELEVATION 1/4" = 1'-0" **F**

- ① SOLID BLOCKING FOR FASTENERS AS REQUIRED FOR SIGN MOUNTING.
- ② PROVIDE BLOCKING FOR CANOPY. SEE DETAILS 3/S4.3 AND 13/S4.3.

KEY NOTES **C**

1. EXTEND BLOCKING AS REQUIRED TO FIT BETWEEN STUDS.
2. ELEVATION AT BOTTOM OF CANOPIES SHALL BE 9'-0" A.F.F. U.N.O.
3. COORDINATE SIGNAGE ELEMENTS AND BLOCKING REQUIREMENTS WITH SIGNAGE VENDOR - SEE SCOPE OF WORK.
4. THIS SHEET IS TO INDICATE BLOCKING REQUIREMENTS FOR SIGNS, AWNINGS, AND CANOPIES. ADDITIONAL BLOCKING IS REQUIRED FOR OTHER ITEMS AS SHOWN ON OTHER DRAWINGS.

GENERAL NOTES **D**

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TACO BELL
 18708 TELEGRAPH ROAD
 BROWNSTOWN, MI 48183



**ENDEAVOR 2.0
 CANOPY/AWNING
 BLOCKING
 ELEVATIONS**

S5.0
 PLOT DATE: 3/9/2022 10:21:06 AM

IMPROVEMENT PLANS

TACO BELL

18880 TELEGRAPH RD
BROWNSTOWN, MI 48174
MARCH 01, 2022

LEGAL DESCRIPTION

THE LAND SITUATED IN THE TOWNSHIP OF BROWNSTOWN, COUNTY OF WAYNE IN THE STATE OF MICHIGAN AND DESCRIBED AS FOLLOWS:

A PART OF THE SOUTHEAST 1/4 OF SECTION 5, TOWN 4 SOUTH, RANGE 10 EAST, BROWNSTOWN TOWNSHIP, WAYNE COUNTY, MICHIGAN, BEING MORE PARTICULARLY DESCRIBED AS COMMENCING AT THE SOUTHEAST CORNER OF SAID SECTION 5; THENCE NORTH 00 DEGREES 41 MINUTES 10 SECONDS EAST 435.65 FEET ALONG THE EAST LINE OF SAID SECTION 5 ALSO BEING THE CENTERLINE OF TELEGRAPH ROAD; THENCE NORTH 89 DEGREES 45 MINUTES 24 SECONDS WEST 100.00 FEET TO A POINT ON THE WESTERLY RIGHT OF WAY LINE OF TELEGRAPH ROAD; THENCE NORTH 00 DEGREES 41 MINUTES 10 SECONDS EAST 85.00 FEET ALONG SAID WESTERLY RIGHT OF WAY LINE TO THE POINT OF BEGINNING; THENCE NORTH 89 DEGREES 45 MINUTES 24 SECONDS WEST 140.21 FEET; THENCE ALONG A CURVE TO THE LEFT 91.00 FEET, SAID CURVE HAVING A RADIUS OF 795.82 FEET, A CENTRAL ANGLE OF 06 DEGREES 33 MINUTES 06 SECONDS AND A LONG CHORD BEARING OF SOUTH 86 DEGREES 58 MINUTES 30 SECONDS WEST 90.95 FEET; THENCE ALONG A CURVE TO THE RIGHT 339.22 FEET, SAID CURVE HAVING A RADIUS OF 740.82 FEET, A CENTRAL ANGLE OF 03 DEGREES 02 MINUTES 00 SECONDS AND A LONG CHORD BEARING OF SOUTH 85 DEGREES 12 MINUTES 30 SECONDS WEST 39.22 FEET; THENCE NORTH 00 DEGREES 41 MINUTES 10 SECONDS EAST 158.48 FEET; THENCE SOUTH 89 DEGREES 18 MINUTES 50 SECONDS EAST 270.00 FEET TO A POINT ON SAID WESTERLY RIGHT OF WAY LINE; THENCE SOUTH 00 DEGREES 41 MINUTES 10 SECONDS WEST 147.75 FEET ALONG SAID WESTERLY RIGHT OF WAY LINE TO THE POINT OF BEGINNING.

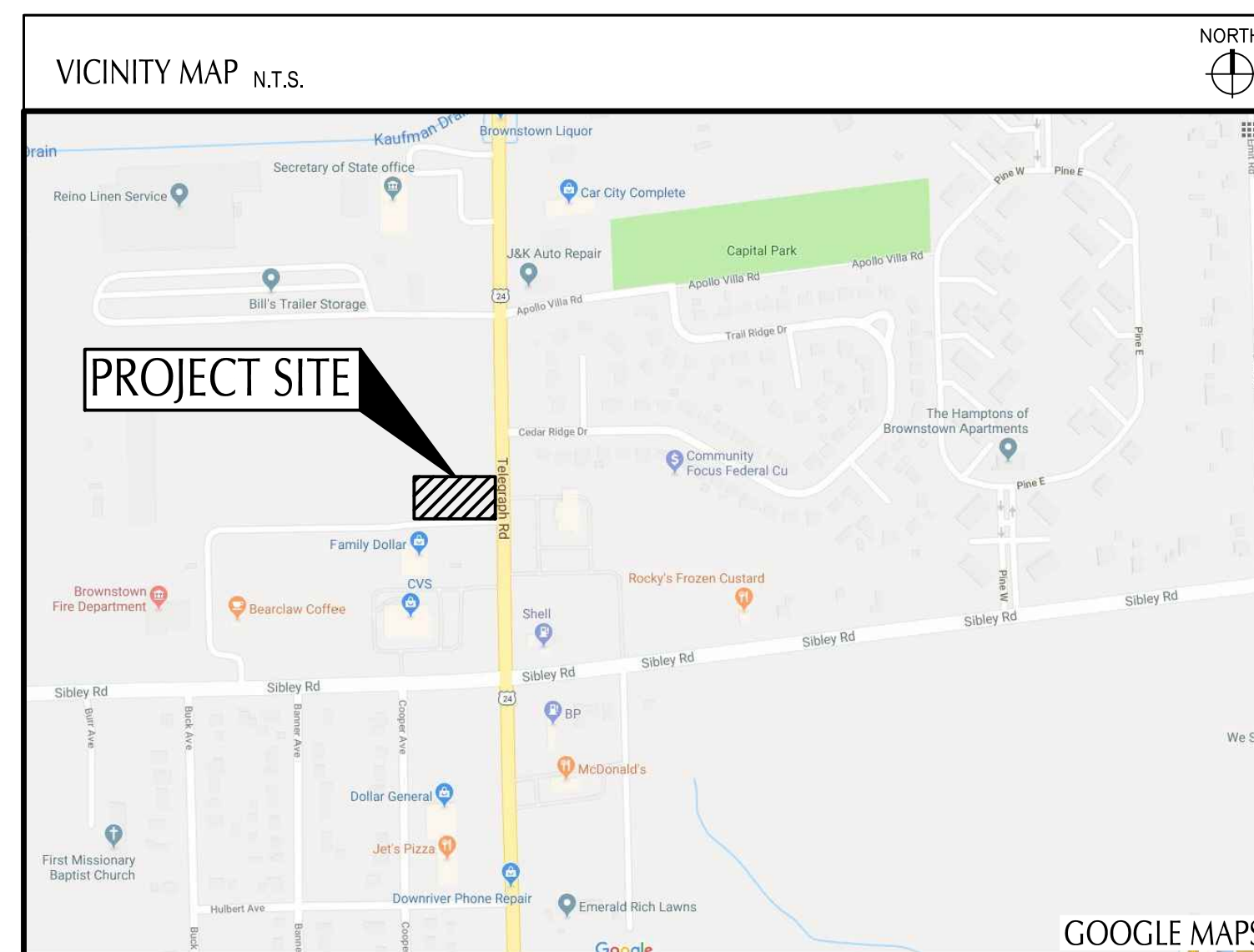
PROJECT DESCRIPTION


THE SITE WAS HOME TO VACANT GRASS LOT.
PROPOSED IMPROVEMENTS INCLUDE A NEW TACO BELL SITE ALONG WITH PARKING AREAS, SIDEWALKS, UTILITIES, AND AMENITY IMPROVEMENTS.

MICHIGAN SPECIFICATION

THE STANDARD SPECIFICATIONS OF THE STATE OF MICHIGAN, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

PLAN REPRODUCTION WARNING
THE PLANS HAVE BEEN PREPARED FOR PRINTING ON ANSI D (22"x34") SHEETS. PRINTING ON OTHER SIZE SHEETS MAY DISTORT SCALES. REFER TO GRAPHIC SCALES.



REQUIRED PERMITS 
PRIOR TO THE START OF CONSTRUCTION THE FOLLOWING PERMITS SHALL BE APPROVED AND IN HAND

- EGLE PART 399 WATER SYSTEMS PERMIT
- MDOT RIGHT-OF-WAY PERMIT



Project: **Taco Bell**
Location: **Brownstown (Redwood), MI**
Date: **March 1st, 2022**

Item of Work	QUANTITY	UNITS	UNIT PRICE	TOTAL COST
6" SDR 35 Sanitary Sewer	273	LF	\$50.00	\$13,650.00
6" Sanitary Sewer connection into existing manhole	1	LS	\$800.00	\$800.00
Sanitary Clean Out	4	EA	\$225.00	\$900.00
Two-way Sanitary Clean Out	2	EA	\$450.00	\$900.00
1,000 Gallon Grease Interceptor	1	EA	\$8,000.00	\$8,000.00
3" PVC sewer vent pipe from grease interceptor	24	LF	\$30.00	\$720.00
1.5" Copper Type K Water Service Lateral	121	LF	\$15.00	\$1,815.00
8" Class 54 Ductile Iron Water Main	63	LF	\$65.00	\$4,095.00
8X2 Reducer	1	EA	\$600.00	\$600.00
45" Elbow	2	EA	\$300.00	\$600.00
90" Elbow	2	EA	\$805.00	\$1,610.00
Hydrant Assembly	1	EA	\$4,000.00	\$4,000.00
Shut off valve and box	1	EA	\$1,200.00	\$1,200.00
6" PVC Storm Sewer	120	LF	\$30.00	\$3,600.00
12" RCP Storm Sewer	472	LF	\$30.00	\$14,160.00
18" RCP Storm Sewer	3	LF	\$47.00	\$141.00
Storm Clean Out	1	EA	\$225.00	\$225.00
Standard Storm Manhole (Storm)	1	EA	\$2,500.00	\$2,500.00
Standard Catch Basin	7	EA	\$2,000.00	\$14,000.00
4" Concrete Walk	1,500	SF	\$6.00	\$9,000.00
Concrete Sidewalk Ramp	5	EA	\$500.00	\$2,500.00
6" Concrete Curb	1,080	LF	\$12.25	\$13,230.00
4" - MDOT 21AA Aggregate Base	167	SY	\$8.25	\$1,377.75
6" - MDOT 21AA Aggregate Base	815	SY	\$11.70	\$9,535.50
8" - MDOT 21AA Aggregate Base	1,080	SY	\$15.35	\$16,578.00
3.5" Asphalt Pavement	780	SY	\$20.50	\$15,990.00
5" Asphalt Pavement	1,515	SY	\$25.65	\$38,859.75
6" Concrete Pavement	555	SY	\$33.00	\$18,315.00
8" Concrete Pavement	260	SY	\$44.00	\$11,440.00
Total Cost				\$210,342.00

The list of quantities and costs above shall not be used by the contractor for bidding purposes, the table above is intended for Brownstown Township to estimate Bond and inspection fees. In providing estimates of probable construction cost, the Client understands that the Consultant has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's method of pricing, and that the Consultant's estimates of probable construction cost are made on the basis of the Consultant's professional judgment and experience. The Consultant makes no warranty, express or implied, that the bids or the negotiated cost of the Work will not vary from the Consultant's estimate of probable construction cost. Please note that the pricing, contingencies and opinion contained or referenced herein anticipates a standard economic environment, and does not account for any uncertainty related to COVID-19 or the current extreme market conditions. As such, Client and Consultant recognize the current market volatility due to such factors including but not limited to COVID-19 restrictions, material and equipment shortages, and rapid price fluctuations. The existence and contents of this document shall not be construed to create responsibility or liability of Client or Consultant for changes related to this estimate of probable cost.











INDEX OF DRAWINGS	
TITLE SHEET	T-001
ALTA SURVEY	1 OF 1
GENERAL NOTES	C-001
DEMOLITION PLAN	C-101
SITE PLAN	C-111
GRADING PLAN	C-121
SWPP NOTES	C-131
SWPP PLAN	C-132
SWPP NOTES AND DETAILS	C-133
UTILITY PLAN	C-141
STORM CALCS AND UTILITY PROFILES	C-142
DETAILS	C-501
WAYNE COUNTY DETAILS	C-502
DETAILS	C-503
DETAILS	C-504
BROWNSTOWN MISC. DETAILS	C-505
BROWNSTOWN WATER DETAILS	C-506
BROWNSTOWN WATER DETAILS	C-507
LANDSCAPE NOTES	L-001
LANDSCAPE PLAN	L-101
LANDSCAPE DETAILS	L-501

GPD GROUP ENGINEER

GPD GROUP PROFESSIONAL CORPORATION
520 SOUTH MAIN STREET, SUITE 2531
AKRON, OH 44311
CONTACT: JIM NEIDLINGER
PHONE 678.781.5070

OWNER AND DEVELOPER

SAM YALDO
TEL - SIB, LLC
3100 NORTHWESTERN HWY, SUITE 110
FARMINGTON HILLS, MI 48334

-  CITY AND COUNTY COMMENTS
-  TOWNSHIP/MDOT COMMENTS
-  01.20.22 ISSUED FOR BID
-  03.11.22 ISSUED FOR CONSTRUCTION
- 
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CONTRACT DATE: 01/01/19
BUILDING TYPE: ENDEAVOR 2.0
PLAN VERSION: MARCH 2022
BRAND DESIGNER: DAN DICKSON
SITE NUMBER: 315089
STORE NUMBER: 40164

TACO BELL

18708 TELEGRAPH RD
BROWNSTOWN, MI 48183



ENDEAVOR 2.0


TITLE SHEET

T-001

DEMOLITION NOTES

- CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO ANY DEMOLITION PROCESS. CERTAIN ACTIVITIES ASSOCIATED WITH CONSTRUCTION WILL REQUIRE AIR PERMITS INCLUDING BUT NOT LIMITED TO: MOBILE CONCRETE BATCH PLANTS, MOBILE ASPHALT PLANTS, CONCRETE CRUSHERS, LARGE GENERATORS, ETC. THESE ACTIVITIES WILL REQUIRE SPECIFIC CURRENT STATE'S EPA OR LOCAL GOVERNING AUTHORITIES AIR PERMITS FOR INSTALLATION AND OPERATION. CONTRACTORS MUST SEEK AUTHORIZATION FROM THE CORRESPONDING GOVERNING BODIES. FOR DEMOLITION OF ALL COMMERCIAL SITES, A NOTIFICATION FOR RESTORATION AND DEMOLITION MUST BE SUBMITTED TO THE CURRENT STATE'S EPA AND LOCAL GOVERNING AUTHORITIES TO DETERMINE ANY CORRECTIVE ACTIONS THAT MAY BE REQUIRED.
- DEMOLITION INCLUDES THE FOLLOWING:
 - TRANSFER BENCHMARK CONTROL TO NEW LOCATIONS OUTSIDE THE DISTURBED AREA PRIOR TO COMMENCING DEMOLITION OPERATIONS (WHEN APPLICABLE).
 - DEMOLITION AND REMOVAL OF SITE IMPROVEMENTS NECESSARY FOR THE PROPOSED CONSTRUCTION OF NEW IMPROVEMENTS.
 - REROUTING, RELOCATING, DISCONNECTING, CAPPING OR SEALING, AND ABANDONING/REMOVING SITE UTILITIES IN PLACE (WHICHEVER IS APPLICABLE).
- REMOVE AND LEGALLY DISPOSE OF ITEMS CALLED OUT TO BE REMOVED. REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS. THOSE ITEMS INDICATED TO BE REINSTALLED, SALVAGED, OR TO REMAIN SHALL BE CLEANED, SERVICED, AND OTHERWISE PREPARED FOR REUSE. CONTRACTOR TO STORE AND PROTECT AGAINST DAMAGE. REINSTALL ITEMS IN LOCATIONS INDICATED.
- PROTECT ITEMS INDICATED TO REMAIN AGAINST DAMAGE AND SOILING THROUGHOUT CONSTRUCTION. WHEN PERMITTED BY THE CONSTRUCTION MANAGER OR OWNER, ITEMS MAY BE REMOVED TO A SUITABLE, PROTECTED STORAGE LOCATION THROUGHOUT CONSTRUCTION AND THEN CLEANED AND REINSTALLED IN THEIR ORIGINAL LOCATIONS. PROMPTLY REPAIR DAMAGES TO ADJACENT FACILITIES CAUSED BY DEMOLITION OPERATIONS AT THE CONTRACTORS COST.
- CONTRACTOR SHALL SCHEDULE DEMOLITION ACTIVITIES WITH THE CONSTRUCTION/PROJECT MANAGER INCLUDING THE FOLLOWING:
 - DETAILED SEQUENCE OF DEMOLITION AND REMOVAL WORK, WITH STARTING AND ENDING DATES FOR EACH ACTIVITY.
 - DATES FOR SHUTOFF, CAPPING, AND CONTINUATION OF UTILITY SERVICES.
 - IDENTIFY AND ACCURATELY LOCATE UTILITIES AND OTHER SUBSURFACE STRUCTURAL, ELECTRICAL, OR MECHANICAL CONDITIONS.
- REGULATORY REQUIREMENTS. COMPLY WITH GOVERNING EPA NOTIFICATION REGULATIONS BEFORE STARTING DEMOLITION. COMPLY WITH HAULING AND DISPOSAL REGULATIONS OF AUTHORITIES HAVING JURISDICTION
- MAINTAIN EXISTING UTILITIES INDICATED TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE THROUGHOUT CONSTRUCTION OPERATIONS.
 - DO NOT INTERRUPT EXISTING UTILITIES SERVING OCCUPIED OR OPERATING FACILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY OWNER'S REPRESENTATIVE AND AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO OWNER AND TO GOVERNING AUTHORITIES.
- LOCATE, IDENTIFY, DISCONNECT, AND SEAL OR CAP OFF INDICATED UTILITY SERVICES SERVING THE SITE. ARRANGE TO SHUT OFF AND CAP UTILITIES WITH UTILITY COMPANIES AND FOLLOW THEIR RESPECTIVE UTILITY KILL AND CAP POLICIES. DO NOT START DEMOLITION WORK UNTIL UTILITY DISCONNECTING AND SEALING HAVE BEEN COMPLETED AND VERIFIED IN WRITING BY THE UTILITY COMPANY.
- CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES TO REMAIN. ENSURE SAFE PASSAGE OF PEOPLE AROUND DEMOLITION AREA. SAFE PASSAGE INCLUDES THE ERECTION OF TEMPORARY PROTECTION AND/OR BARRICADES AS PER LOCAL GOVERNING AUTHORITIES AND IN ACCORDANCE WITH THE CURRENT ADA REGULATIONS. USE OF EXPLOSIVES WILL NOT BE PERMITTED.
- CLEAN ADJACENT BUILDINGS AND IMPROVEMENT OF DUST, DIRT, AND DEBRIS CAUSED BY DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE START OF DEMOLITION.
- PROMPTLY DISPOSE OF DEMOLISHED MATERIALS. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE. STORAGE OR SALE OF REMOVED ITEMS OR MATERIALS ON-SITE WILL NOT BE PERMITTED. NO BURNING OF ANY MATERIALS ON SITE SHALL BE PERMITTED.
- IT IS NOT EXPECTED THAT ASBESTOS WILL BE ENCOUNTERED IN THE COURSE OF THIS CONTRACT. IF ANY MATERIALS SUSPECTED OF CONTAINING ASBESTOS ARE ENCOUNTERED, DO NOT DISTURB THE MATERIALS. IMMEDIATELY NOTIFY THE CONSTRUCTION MANAGER AND THE OWNER.
- SURVEY THE CONDITION OF THE STRUCTURE TO DETERMINE WHETHER REMOVING ANY ELEMENT MIGHT RESULT IN A STRUCTURAL DEFICIENCY OR UNPLANNED COLLAPSE OF ANY PORTION OF THE STRUCTURE OR ADJACENT STRUCTURES THROUGHOUT CONSTRUCTION.
- DEMOLISH BUILDING AND STRUCTURAL PADS COMPLETELY AND REMOVE FROM THE SITE. USE METHODS REQUIRED TO COMPLETE WORK WITHIN LIMITATIONS OF GOVERNING REGULATIONS AND AS FOLLOWS:
 - DISPOSE OF DEMOLISHED ITEMS AND MATERIALS PROMPTLY.
 - DEMOLISH CONCRETE AND MASONRY IN SMALL SECTIONS.
 - BREAK UP AND REMOVE CONCRETE SLABS ON GRADE.
- BELOW-GRADE DEMOLITION: DEMOLISH FOUNDATION WALLS, PAVEMENTS, AND OTHER BELOW-GRADE DEMOLITION, AS FOLLOWS:
 - COMPLETELY REMOVE BELOW-GRADE DEMOLITION, INCLUDING FOUNDATION WALLS FOOTINGS, KNOWN AND UNKNOWN PAVEMENT SECTIONS INCLUDING UNDERLYING CONCRETE SLABS, AND OTHER BELOW GRADE CONCRETE SLABS FOUND DURING DEMOLITION (INCLUDING ITEMS WHICH MAY NOT BE IDENTIFIED HEREIN).
- FILLING BELOW-GRADE AREAS: COMPLETELY FILL BELOW-GRADE AREAS AND VOIDS RESULTING FROM DEMOLITION OF BUILDINGS, PAVEMENTS, AND OTHER REMOVED ITEMS WITH SOIL MATERIALS ACCORDING TO REQUIREMENTS PER SOILS REPORT AND ON-SITE GEOTECHNICAL ENGINEER'S REPRESENTATIVE. CONTRACTOR SHALL CONTACT GEOTECHNICAL ENGINEER PRIOR TO FILLING ANY AREAS TO OBSERVE FILL PROCEDURES.
- CONDUCT DEMOLITION OPERATIONS AND REMOVE DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED AND USED FACILITIES. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER ADJACENT OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM OWNER AND AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS IF REQUIRED BY GOVERNING REGULATIONS.
- CONTRACTOR TO WET SAWCUT EXISTING PAVEMENT TO REMAIN AT NEXT NEAREST JOINT PRIOR TO REMOVALS OF CURB, GUTTER, PAVEMENT, ETC.
- THE CONTRACTOR SHALL REMOVE EXISTING PAVEMENT MARKINGS WITH SMALL HANDHELD GRINDERS OR SCARIFIERS OR OTHER METHODS, WITH THE APPROVAL OF THE CONSTRUCTION MANAGER. TAKE CARE DURING MARKING REMOVAL NOT TO SCAR, DISCOLOR, OR OTHERWISE DAMAGE THE PAVEMENT SURFACE. DO NOT OVERPAINT OR USE OTHER METHODS OF COVERING MARKINGS INSTEAD OF REMOVAL.
- WHEN NOTED AND ALLOWED BY THE OWNER, THE CONTRACTOR MAY RE-USE EXISTING WHEELSTOPS FOR THE PROPOSED SITE. CONTRACTOR AND CONSTRUCTION MANAGER SHALL COORDINATE WHICH EXISTING WHEELSTOPS MAY BE RE-USED PRIOR TO DEMOLITION. CONTRACTOR SHALL ENSURE THAT ALL RE-USED WHEELSTOPS ARE PROTECTED DURING CONSTRUCTION.
- IF UNDERGROUND TANKAGE IS CALLED FOR DEMOLITION, THE CONTRACTOR SHALL COORDINATE REMOVAL AND REPLACEMENT WITH THE STATE BUREAU OF UNDERGROUND STORAGE TANK REGULATIONS (BUSTR). UNDERGROUND TANK REMOVAL SHALL ALSO INCLUDE THE REMOVAL OF ANY MONITORING WELLS, OIL/GAS WELLS, AND MINE SHAFTS, IN ACCORDANCE WITH GOVERNING AUTHORITIES HAVING JURISDICTION.
- CONTRACTOR SHALL FULLY SECURE WORK AREA WITH THE APPROPRIATE SIGNAGE, FENCING, AND BARRICADES WHICH ACCOMMODATE VISUALLY IMPAIRED PERSONS AS AGREED UPON WITH THE SITE CONSTRUCTION/PROJECT MANAGER AND OWNER TO WARN AND KEEP PEOPLE OUT OF THE SITE WORK AREA FOR THE DURATION OF THE PROJECT.

GENERAL PLAN AND SURVEY NOTES


- PRIOR TO STARTING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
- THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE SECTION OF THESE NOTES ENTITLED "GRADING PLAN NOTES" FOR DEFINITIONS AS MAY BE NECESSARY FOR "GEOTECHNICAL ENGINEER" AND "SOILS REPORT".
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS AND THE REQUIREMENTS AND STANDARDS OF THE LOCAL GOVERNING AUTHORITY. THE SOILS REPORT AND RECOMMENDATIONS SET FORTH THEREIN ARE A PART OF THE REQUIRED CONSTRUCTION DOCUMENTS AND TAKE PRECEDENCE UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION/PROJECT MANAGER OF ANY DISCREPANCY BETWEEN SOILS REPORT AND PLANS, ETC.
- THE CONTRACTOR SHALL, UPON BECOMING AWARE OF SUBSURFACE OR LATENT PHYSICAL CONDITIONS DIFFERING FROM THOSE DISCLOSED BY THE ORIGINAL SOIL EXPLORATION WORK, PROMPTLY NOTIFY THE OWNER VERBALLY TO PERMIT VERIFICATION OF THE CONDITIONS AND IN WRITING, AS TO THE NATURE OF THE DIFFERING CONDITIONS. NO CLAIM BY THE CONTRACTOR FOR ANY CONDITIONS DIFFERING FROM THOSE ANTICIPATED IN THE PLAN AND SPECIFICATIONS AND DISCLOSED BY THE SOIL STUDIES WILL BE ALLOWED UNLESS THE CONTRACTOR HAS SO NOTIFIED THE OWNER, VERBALLY AND IN WRITING AS REQUIRED ABOVE, OF SUCH DIFFERING CONDITIONS.
- ALL WORK WITHIN THE RIGHTS OF WAY SHALL BE IN ACCORDANCE WITH THE GOVERNING JURISDICTION AND SPECIFICATIONS.
- CONTRACTOR SHALL COORDINATE ANY MAINTENANCE OF TRAFFIC WITH THE OWNER'S REPRESENTATIVE AND THE LOCAL JURISDICTION PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL AT ALL TIMES ENSURE THAT SWPP MEASURES PROTECTING EXISTING DRAINAGE FACILITIES BE IN PLACE PRIOR TO THE COMMENCEMENT OF ANY PHASE OF THE SITE CONSTRUCTION OR LAND ALTERATION. (SEE SWPP PLANS).
- UPON COMPLETION OF PROJECT, CONTRACTOR SHALL CLEAN THE PAVED AREAS PRIOR TO REMOVAL OF TEMPORARY SEDIMENT CONTROLS, AS DIRECTED BY THE CITY AND/OR CONSTRUCTION/PROJECT MANAGER. IF POWER WASHING IS USED, NO SEDIMENT LADEN WATER SHALL BE WASHED INTO THE STORM SYSTEM. ALL SEDIMENT LADEN MATERIAL ON PAVEMENT OR WITHIN THE STORM SYSTEM SHALL BE COLLECTED AND REMOVED FROM THE SITE AT CONTRACTOR'S EXPENSE (SEE SWPP PLANS).
- THESE PROJECT CONSTRUCTION DOCUMENTS SHALL NOT CONSTITUTE A CONTRACTUAL RELATIONSHIP BETWEEN THE ENGINEER AND THE CONTRACTOR OR THE ENGINEER AND THE SUBCONTRACTOR.
- THE ENGINEER WILL NOT BE RESPONSIBLE FOR CONSTRUCTION OR SAFETY, MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES UTILIZED IN CONSTRUCTION BY THE CONTRACTOR OR SUBCONTRACTORS.
- DETAILS, NOTES, AND OTHER REFERENCES CONTAIN HEREIN MAY HAVE BEEN OBTAINED FROM OUTSIDE REFERENCE SOURCE LOCATIONS SUCH AS, BUT NOT LIMITED TO, LOCAL AUTHORITY AGENCIES' DESIGN REFERENCE MANUALS, MANUFACTURER'S RECOMMENDED DOCUMENTATION, OR OTHER INDUSTRY SOURCES. GPD DOES NOT WARRANT INFORMATION OR REPRESENTATION OF SAID CONTENT CONTAINED HEREIN. IT IS SHOWN SOLELY FOR REFERENCE ONLY IF OF DESIGN INTENT AT THE TIME OF PLAN PREPARATION. THE CONSTRUCTION TEAM MEMBERS (CONTRACTOR AND CONSTRUCTION MANAGER, WHERE APPLICABLE) SHALL OBTAIN THE MOST CURRENT DETAILED INFORMATION FROM THE RESPECTIVE SOURCE TO CONSTRUCT THE IMPROVEMENTS UNDER THE AUTHORITY OF THE RESPECTIVE GOVERNING AGENCIES. IF ANY DISCREPANCIES ARE DISCOVERED BETWEEN THE ORIGINAL DESIGN INTENT AND THE CONSTRUCTION TEAM OBTAINED REFERENCE MATERIAL, THE CONSTRUCTION MANAGER OR THE PROJECT'S CONTACT PERSON SHALL BE NOTIFIED PRIOR TO COMMENCING OF ASSOCIATED WORK.
- CONDUCT CONSTRUCTION OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED AND USED FACILITIES. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER ADJACENT OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM OWNER AND AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS.
- THE A.L.T.A. SURVEY BY KEM-TEC, DATED 10/04/19 SHALL BE CONSIDERED A PART OF THESE PLANS. THE G.C. IS RESPONSIBLE FOR LOCATING IMPROVEMENTS PER THESE PLANS.
- THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON THE PLAN ARE BASED ON FIELD SURVEYS, SITE RECORDS, ETC. IT SHALL BE THE CONTRACTORS FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES TO LOCATE THEIR FACILITIES PRIOR TO STARTING CONSTRUCTION. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR TO THESE FACILITIES CAUSED BY HIS WORK FORCE.
- ALL DIMENSIONS, GRADES, AND UTILITY LOCATIONS SHOWN ON THESE PLANS WERE BASED ON THE SURVEY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY CONSTRUCTION/PROJECT MANAGER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO INFORMATION SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
- IN SOME CASES, THE DEVELOPER OR OWNER MAY HAVE PROVIDED THEIR OVERALL DEVELOPMENT PLANS FOR THE PROJECT DESIGN RATHER THAN A FIELD SURVEY. (SEE SITE PLAN FOR NOTES WHEN THIS IS THE CASE). ALL DIMENSIONS, GRADES, AND UTILITY LOCATIONS SHOWN ON THESE PLANS WERE BASED ON SAID DEVELOPMENT PLANS. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY CONSTRUCTION MANAGER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO INFORMATION SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
- THE CONTRACTOR SHALL RUN AN INDEPENDENT VERTICAL CONTROL TRAVERSE TO CHECK BENCHMARKS AND A HORIZONTAL CONTROL TRAVERSE THROUGH THE REFERENCED PROJECT CONTROL DATUM TO CONFIRM GEOMETRIC DATA. IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO THE START OF CONSTRUCTION.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT STANDARDS, SPECIFICATIONS, AND GENERAL CONDITIONS OF THE CHARTER TOWNSHIP OF BROWNSTOWN. 

CONCRETE NOTES AND SPECIFICATIONS







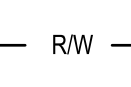
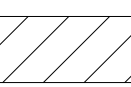
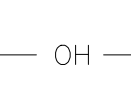
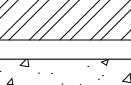

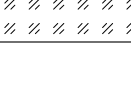




- ALL EXTERIOR SITE SPECIFIC PORTLAND CEMENT CONCRETE (PCC) (I.E. SIDEWALK, PAVEMENT OR CURBING) SHALL MEET THE MINIMUM REQUIREMENTS OF THE LATEST EDITIONS OF THE STATE DEPARTMENT OF TRANSPORTATION (DOT) AND THE AMERICAN CONCRETE INSTITUTE (ACI) SPECIFICATIONS USING THE RESPECTIVE ASTM STANDARDS FOR MATERIALS USED, MIXING, TRANSPORTATION, FORMING, PLACEMENT, CURING, AND SEALING. THE MINIMUM STRENGTH FOR NORMAL WEIGHT CONCRETE IS 4000 PSI AT 28 DAY STRENGTH. THE CONTRACTOR SHALL REFER TO DETAILS, NOTES, AND SPECIFICATIONS WITHIN THE CONSTRUCTION DOCUMENTS FOR VARIATIONS TO THIS SPECIFICATION. MIX DESIGN SHOP DRAWINGS SHALL BE TAILORED TO THE ACTUAL FIELD PLACEMENT CONDITIONS AND BE SUBMITTED TO THE CONSTRUCTION/PROJECT MANAGER IN ACCORDANCE WITH THE PROJECT REQUIREMENTS.
- ALL EXTERIOR CONCRETE CURBS SHALL HAVE JOINTS PER ACI 330. CURB JOINTS ARE TO ALIGN WITH CONCRETE PAVEMENT JOINTS WHERE APPLICABLE, TYPICALLY BEING 10 FT TO 12 FT. ALL EXTERIOR VEHICULAR CONCRETE PAVEMENT AND FLATWORK SHALL HAVE CONTROL JOINTS PER TABLE BELOW AND EXPANSION JOINTS PER ACI 330 TYPICAL RECOMMENDATIONS.

SLAB THICKNESS - " T "	MAXIMUM JOINT SPACING
LESS THAN 4 INCHES	8 FEET
4 < 5 INCHES	10 FEET
5 < 6 INCHES	12.5 FEET
6 INCHES < 8 INCHES	15 FEET
8 INCHES - 10 INCHES	15 FEET
- ALL JOINTS, INCLUDING SAWED JOINTS, SHALL BE SEALED. JOINTS SHALL BE CLEANED AND DRIED PRIOR TO SEALING. JOINT SEALING MATERIALS SHALL COMPLY WITH ASTM D 3406 FOR HOT APPLIED ELASTOMER, TT-S001543A FOR SILICONE RUBBER, AND TT-S-00230S FOR SINGLE COMPONENT ELASTOMERIC SEALER WIDTH, DEPTH, AND PREPARED APPLICATION SURFACES SHALL BE PER MANUFACTURER RECOMMENDATIONS. JOINT FILLER MATERIAL SHALL CONFORM TO ASTM D1751 OR ASTM D8139 AND EXTEND THE FULL DEPTH OF CONTACTING SURFACE.
- ALL CONCRETE PANELS SHALL BE SQUARE WITH A LENGTH TO WIDTH RATIO NO GREATER THAN 1.25 TO 1 AND HAVE A MEDIUM BROOM FINISH (TRANSVERSE, SLIP RESISTANT FOR PEDESTRIAN PATHWAYS) WHICH SHALL BE TO MINIMUM STRENGTH PRIOR TO OPENING FOR VEHICULAR TRAFFIC AREAS. STAGGERED/OFFSET JOINT, INTERIOR CORNERS, ANGLES LESS THAN 60 DEGREES, SLABS LESS THAN 18-INCHES WIDE, AND ODD SHAPES SHALL NOT BE PERMITTED. BLOCKOUTS AROUND ALL PAVEMENT CASTINGS SHALL BE PROVIDED IN ACCORDANCE WITH ACI RECOMMENDATIONS.
- ALL JOINTING (IF) SHOWN HEREIN IS ONLY A GENERAL GUIDELINE OF DESIGN INTENT. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR FINAL LAYOUT OF THE JOINTING WHICH COINCIDES WITH THEIR MEANS AND METHODS TO ENSURE NO UNDESIRABLE CRACKS FORM THROUGH ANY PLACED CONCRETE. JOINTS SHALL BE APPROPRIATELY PLACED AS SOON AS POSSIBLE TO KEEP UNNECESSARY CRACKS FROM DEVELOPING. CONTRACTOR SHALL SUBMIT SHOP DRAWING OF THEIR PAVEMENT JOINT LAYOUT TO OWNER / CONSTRUCTION MANAGER PRIOR TO PLACEMENT FOR RECORD. THE CONTRACTOR SHALL REPLACE ANY CRACKED CONCRETE, WHICH HAS NOT BEEN PLACED/FINISHED IN ACCORDANCE WITH ACI STANDARDS, TO THE NEXT JOINT PAST THE EFFECTED AREA AT NO ADDITIONAL COST TO THE PROJECT WITHIN ONE YEAR OF PROJECT COMPLETION.
- DESIGN INTENT CONCRETE AND SHALL CONFORM TO THE FOLLOWING MINIMUM AND MAXIMUM VALUES:
 - STRENGTH PER MIX DESIGN, MINIMUM 4000 PSI
 - PORTLAND CEMENT CONTENT 550 LB / CY (ASTM C150 TYPE III)
 - POZZOLAN MATERIALS SILICA FUME MAY REPLACE MAX. 7% CEMENT FLY ASH OR SLAG CEMENT MAY REPLACE MAX. 20% CEMENT
 - MAX W/C RATIO PER MIX DESIGN, MAXIMUM 0.45
 - ENTRAINED AIR 6.5% AVG ± 1.5% (7.0% TARGET) ASTM C260
 - SLUMP 4" MAX WITHOUT WATER REDUCER
 - SLUMP WITH HRWR OR MID RANGE WR 6" TO 8"
 - WATER REDUCER NORMAL TYPE A (ASTM C494)
 - RETARDER NORMAL TYPE B OR D AS NEEDED (REQUIRED IF CONCRETE TEMPERATURE EXCEEDS 85F)
 - CONCRETE TEMPERATURE AT PLACEMENT 50F-90F
 - ACCELERATOR NON-CHLORIDE TYPE ONLY - CALCIUM CHLORIDE IS PROHIBITED
 - FIBERS TO BE USED FOR SHRINKAGE CRACK CONTROL - (CURBS, WALKS, STEPS, RAMPS) POLYPROPYLENE OR POLYETHYLENE MICRO SYNTHETIC FIBERS @ 1.5 LBS / CY (FIBERMESH 300 OR APPROVED EQUAL)
 - FOR USE AS W.W.F. REPLACEMENT MACRO SYNTHETIC FIBERS @ 4 LBS / CY (TUF-STRAND SF OR APPROVED EQUAL)
- ALL SYNTHETIC FIBERS SHALL BE TYPE III PER ASTM C1116 AND ASTM D7508. MACRO FIBERS SHALL BE 1.5 TO 2.25 INCHES IN LENGTH.
- ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615, ASTM A1064, ASTM A307, AND ASTM A775. WHEN USED, ALL W.W.F. SLAB REINFORCEMENT SHALL BE SUPPORTED ON CHAIRS AND BE FLAT SHEETS ONLY. ZINC REPAIR MATERIAL SHALL CONFORM TO ASTM A780.
- CONCRETE SHALL ARRIVE AT JOB SITE WITH APPROPRIATE W/C RATIO. NO WATER SHALL BE ADDED TO CONCRETE ON SITE WHICH EXCEEDS THE MAXIMUM ALLOWED W/C RATIO AS INDICATED BY THE WRITTEN BATCH PLAN TICKET FROM THE SUPPLIER. SUPERPLASTICIZER AND/OR OTHER ADMIXTURES MAY BE UTILIZED TO ACHIEVE DESIRED WORKABILITY OR TO ACCOUNT FOR ADVERSE PLACEMENT CONDITIONS. ADMIXTURES SHALL BE UTILIZED ONLY IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND MEET THE REQUIREMENTS OF ASTM C494 AND/OR ASTM C1017.
- CONTRACTOR SHALL HAVE A MIN. 5 YEARS EXPERIENCE WITH SUCCESSFUL PLACEMENT OF CONCRETE UTILIZING POZZOLAN MATERIALS. MIX DESIGNS WHICH UTILIZED POZZOLAN MATERIALS SHALL BE IN ACCORDANCE WITH LOCAL DOT SPECIFICATIONS AND ACI STANDARDS. FLY ASH SHALL MEET THE REQUIREMENTS OF ASTM C618, CLASS C OR CLASS F, EXCEPT THE LOSS ON IGNITION MUST NOT EXCEED 5%. SLAG CEMENT ACCORDING TO ASTM C989, GRADE 100 MINIMUM. SILICA FUME SHALL BE DRY DENSIFIED MEETING THE REQUIREMENTS OF ASTM C1240. USE OF MATERIALS SHALL BE IN ACCORDANCE WITH ACI 211.1.
- AGGREGATES SHALL BE LOW-SHRINKAGE / WELL GRADED PER ASTM C33 AND THE LOCAL DOT SPECIFICATIONS WHICH ARE RESISTANT TO FREEZE / THAW, SULFATE ATTACK, AND ARE NOT ALKALI-CARBONATE AGGREGATES OR SUSCEPTIBLE TO ALKALI-AGGREGATE REACTIVITY. SLAG AGGREGATES SHALL NOT BE PERMITTED IN ANY CONCRETE MIX.
- LIQUID MEMBRANE FORMING CURING COMPOUNDS SHALL BE PER ASTM C1315 TYPE II CLASS A IN ACCORDANCE WITH ACI 308. LIQUID MEMBRANE FORMING CURING COMPOUNDS SHALL BE WHITE PIGMENTED AND TWO COATS APPLIED IN TWO PERPENDICULAR UNIFORM APPLICATIONS PER MANUFACTURER RECOMMENDATIONS WITHIN THE ALLOWABLE TIME PERIODS. APPLICATIONS SHALL BE PHOTOGRAPH DOCUMENTED FOR EVEN AND CONSISTENT COVERAGE SIMILAR TO THE APPEARANCE OF A BLANK WHITE SHEET OF COPY PAPER. NO POOLING OF MATERIAL SHALL BE ACCEPTED.
- CONCRETE SEALER SHALL BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. A WRITTEN STATEMENT FROM THE MANUFACTURE FOR THE SEALER AND CURING COMPOUND SHALL BE PROVIDED GUARANTEEING COMPATIBILITY.
- REFER TO ACI INDUSTRY STANDARDS FOR CONCRETE PLACEMENT AND INSTALLATION. CONTRACTOR SHALL INCLUDE PROVISIONS IN ACCORDANCE WITH ACI 308R AND 308R FOR HOT AND COLD WEATHER PLACEMENT WHEN PROJECT SCHEDULE TIMING FALLS WITHIN THE REQUIRED TEMPERATURE RANGES PER ACI AND THE LOCAL DOT.

GRADING PLAN NOTES

- A SOILS REPORT HAS BEEN PREPARED BY PSI, DATED NOVEMBER 15, 2019 AND SHALL BE CONSIDERED TO BE A PART OF THIS PLAN SET.
 - BEFORE STARTING GRADING OPERATIONS, SEE STORMWATER POLLUTION PREVENTION PLAN, NOTES AND DETAILS (SWPP), LANDSCAPE PLAN AND SOILS REPORT FOR TREATMENT OF EXISTING GRADE.
 - PRIOR TO SITE CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL INSTALL ALL SWPP MEASURES TO PROTECT EXISTING DRAINAGE FACILITIES. CONTRACTOR SHALL PREVENT SILTATION FROM LEAVING THE SITE AT ALL TIMES.
 - STRIP BUILDING AND PAVEMENT AREAS OF ALL ORGANIC TOPSOILS. STOCKPILE SUITABLE TOPSOILS FOR SPREADING ONTO LANDSCAPE AREAS. ALL EXCESS EXCAVATED MATERIALS SHALL BE REMOVED FROM THE SITE AT THE CONTRACTOR'S EXPENSE. SEE GEOTECHNICAL REPORT FOR STRIPPING AND TOPSOIL REQUIREMENTS.
 - OBTAIN APPROVED BORROW SOIL MATERIALS OFF-SITE WHEN SUFFICIENT SATISFACTORY SOIL MATERIALS ARE NOT AVAILABLE ON-SITE.
 - SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL SOFT, YIELDING OR UNSUITABLE MATERIALS AND REPLACING WITH SUITABLE MATERIALS AS SPECIFIED IN THE SOILS REPORT. UNLESS OTHERWISE SPECIFIED IN THE PLANS, SPECIFICATIONS, OR SOILS REPORT THE SITE GRADING, EXCAVATION, AND EMBANKMENT SHALL BE IN ACCORDANCE WITH THE STATE DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS.
 - AT A MINIMUM ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DRY DENSITY PER A.S.T.M. TEST D-698. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 2% ABOVE NOR 2% BELOW OPTIMUM. THE CONTRACTOR SHALL FOLLOW THE RECOMMENDATIONS OF THE SOILS REPORT AND RETAIN A QUALIFIED SOILS ENGINEER REGISTERED WITHIN THE STATE TO ENSURE COMPLIANCE WITH THE SOILS REPORT. MAKE GEOTECHNICAL RECOMMENDATIONS BASED ON FIELD CONDITIONS, AND ENSURE THAT ALL SHORING AND DEWATERING MEANS AND METHODS WILL NOT COMPROMISE THE STABILITY OF EXISTING OR PROPOSED FOOTINGS/FOUNDATIONS. THE OWNER SHALL RECEIVE ALL COMPACTION REPORTS PREPARED BY THE CONTRACTOR'S GEOTECHNICAL ENGINEER, VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS WITHIN THE BUILDING PAD AREA AND AREAS TO BE PAVED HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT. NOTIFY PROJECT CONSTRUCTION MANAGER IF ANY UNSUITABLE SOILS ARE FOUND.
 - FOLLOWING GRADING OF SUBSOIL TO SUBGRADE ELEVATIONS THE CONTRACTOR SHALL PLACE TOPSOIL TO A 6" DEPTH (UNLESS OTHERWISE SPECIFIED IN LANDSCAPING DETAILS) IN ALL DISTURBED AREAS WHICH ARE NOT TO BE PAVED. SMOOTHLY FINISH GRADE TO MEET SURROUNDING LAWN AREAS AND ENSURE POSITIVE DRAINAGE. STOCKPILE TOPSOIL SHALL BE SCREENED PRIOR TO SPREADING. TOPSOIL SHALL BE FREE OF SUBSOIL, DEBRIS, BRUSH AND STONES LARGER THAN 1" IN ANY DIMENSION. ROCK HOUNDING IN PLACE WILL NOT BE PERMITTED. ALL EXCESS TOPSOIL SHALL BE LEGALLY DISPOSED OF OFF SITE.
 - ELEVATIONS GIVEN ARE AT BOTTOM FACE OF CURB AND/OR FINISHED PAVEMENT GRADE UNLESS OTHERWISE SPECIFIED ON GRADING PLAN. ALL PAVEMENT SHALL BE LAID ON A STRAIGHT, EVEN, AND UNIFORM GRADE WITH A MINIMUM OF 1% SLOPE TOWARD THE COLLECTION POINTS UNLESS OTHERWISE SPECIFIED ON THE GRADING PLAN. DO NOT ALLOW NEGATIVE GRADES OR PONDING OF WATER.
 - GRADE BUILDING SIDEWALK AWAY FROM THE BUILDING AT A MAXIMUM OF 1.5% (UNLESS OTHERWISE INDICATED ON THE GRADING PLAN).
 - WHEN CONSTRUCTING ASPHALTIC CONCRETE PAVEMENTS, CONTRACTOR SHALL PROVIDE BUTT END JOINT TO MEET EXISTING PAVEMENT IN ELEVATION AT DRIVE RETURNS AND ENSURE POSITIVE DRAINAGE.
 - CONTRACTOR SHALL COMPACT AND PROOFROLL EXISTING SUBGRADE PER RECOMMENDATIONS SET FORTH IN THE SOILS REPORT.
- ### GENERAL UTILITY NOTES
- CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES IMMEDIATELY AFTER BID IS AWARDED AND ENSURE THE UTILITY COMPANIES HAVE THE ESSENTIALS REQUIRED FOR COMPLETE SERVICE INSTALLATION. CONTRACTOR SHALL NOTIFY CONSTRUCTION MANAGER OF ANY TIME FRAMES ESTABLISHED BY UTILITY COMPANIES WHICH WILL NOT MEET OPENING DATE.
 - CONTRACTOR SHALL VERIFY THE SIZE, LOCATION, INVERT ELEVATION, AND CONDITION OF EXISTING UTILITIES WHICH ARE INTENDED TO BE UTILIZED AS A CONNECTION POINT FOR ALL PROPOSED UTILITIES PRIOR TO ANY CONSTRUCTION. CONTRACTOR TO ENSURE EXISTING UTILITIES ARE IN GOOD CONDITION AND FREE FLOWING (IF APPLICABLE). IF ELEVATIONS, SIZE, OR LOCATION DIFFER FROM WHAT IS SHOWN ON PLANS, CONTRACTOR SHALL NOTIFY CONSTRUCTION MANAGER IMMEDIATELY.
 - WHERE PLANS PROVIDE FOR PROPOSED WORK TO BE CONNECTED TO, OR CROSS OVER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING THE PROPOSED WORK. IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE RESULTS IN A CHANGE IN THE PLAN, THE CONSTRUCTION MANAGER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED WORK WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY. PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT ITEM.
 - UTILITY SERVICE PROVIDERS RULES AND REQUIREMENTS TAKE PRECEDENCE OVER INFORMATION HEREIN. IF DISCREPANCY ARISES, CONTRACTOR SHALL FULLY COORDINATE WITH UTILITY SERVICE PROVIDER PRIOR TO START OF CONSTRUCTION.
- ### STORM SEWER NOTES
- ALL STORM SEWER PIPE 12" OR GREATER IN DIAMETER SHALL BE CORRUGATED HIGH DENSITY POLYETHYLENE (HDPE) SMOOTH INTERIOR PIPE (UNLESS OTHERWISE NOTED ON PLAN). HDPE PIPE SHALL CONFORM TO ASTM D 3350 AND JOINTS PER ASTM F477. STORM SEWER LESS THAN 12" IN DIAMETER SHALL BE PVC, SDR 35, PER ASTM D 3034 AND JOINTS PER ASTM D 3212 (OR APPROVED EQUAL).
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRENCHING, BACKFILLING AND PIPE INSTALLATION, PIPE MATERIAL AND TAP CONNECTION.
 - ALL DRAINAGE STRUCTURES AT PAVEMENT SUMPS SHALL HAVE FINGER DRAINS PER DETAILS IN PLANS.
 - THE DEVELOPER IS RESPONSIBLE FOR RESOLVING ANY DRAINAGE PROBLEMS ON ADJACENT PROPERTIES WHICH ARE A RESULT OF THE DEVELOPER'S ACTIVITIES. 
- ### SANITARY SEWER NOTES
- SANITARY SEWER LATERAL INVERT AT BUILDING SHALL BE A MINIMUM OF 5' BELOW FINISH FLOOR.
 - CLEAN-OUTS TO BE INSTALLED AT ALL PIPE BENDS AND ANGLES, UNLESS A MANHOLE IS INDICATED.
 - THE CONTRACTOR SHALL HIRE A LOCAL PLUMBER LICENSED WITH THE LOCAL SANITARY JURISDICTION TO MAKE ALL CONNECTIONS FROM THE BUILDING TO THE EXISTING SEWER. CONTRACTOR SHALL SECURE A SANITARY SEWER CONNECTION PERMIT PRIOR TO ANY CONSTRUCTION. THE CONTRACTORS PRICE FOR SANITARY SEWER INSTALLATION SHALL INCLUDE ALL FEES AND APPURTENANCES REQUIRED BY THE LOCAL SANITARY JURISDICTION TO PROVIDE A COMPLETE WORKING SERVICE. COORDINATE ALL WORK WITH WILLIAM TURNER WITH CHARTER TOWNSHIP OF BROWNSTOWN @ 734.675.4000.
 - ALL SANITARY PIPE MATERIAL SHALL BE 6" PVC, SDR 35 CONFORMING TO ASTM D 3034, WITH JOINTS PER ASTM 3212 UNLESS OTHERWISE REQUIRED BY THE LOCAL JURISDICTION.

WATER NOTES

- WATER SERVICE MATERIALS SHALL BE COPPER TYPE "K" UNLESS OTHERWISE NOTED ON PLANS. DIAMETER SHALL BE AS NOTED ON THESE PLANS AND SHALL BE INSTALLED WITH A MINIMUM COVER OF 60" OR BELOW FROST LINE, WHICHEVER IS GREATER.
 - WATER MAIN MATERIAL SHALL CONFORM WITH CITY REQUIREMENTS.
 - CONSTRUCTION AND MATERIALS PROVIDED BY THE WATER COMPANY:
 - TAP MAIN
 - COORDINATE ALL WORK WITH WILLIAM TURNER WITH CHARTER TOWNSHIP OF BROWNSTOWN @ 734.675.4000.
 - CONSTRUCTION AND MATERIALS PROVIDED BY THE CONTRACTOR:
 - FURNISH AND INSTALL COPPER SERVICE LINE FROM METER TO BUILDING.
 - ALL TRENCHING AND BACKFILLING.
 - FURNISH AND INSTALL PVC WATER MAIN
 - FURNISH AND INSTALL FIRE HYDRANT
 - ALL COORDINATION REQUIRED WITH THE CHARTER TOWNSHIP OF BROWNSTOWN.
- ### ELECTRICAL NOTES
- SEE ELECTRICAL DRAWINGS FOR SITE LIGHTING AND LUMINAIRE DESCRIPTION.
 - SEE ELECTRICAL SHEETS FOR ALL DEDICATED EXTERIOR BUILDING AND SIGN LIGHTING SCHEDULES. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WORK WITH ELECTRICAL PLANS.
 - CONSTRUCTION AND MATERIALS PROVIDED BY THE ELECTRIC COMPANY:
 - FURNISH AND INSTALL PRIMARY WIRING.
 - FURNISH AND INSTALL PAD MOUNTED TRANSFORMER.
 - MAKE APPROPRIATE PRIMARY AND SECONDARY CONNECTIONS AT TRANSFORMER.
 - FURNISH AND INSTALL METER.
 - RUN CONDUIT UP POLE.
 - COORDINATE ALL WORK WITH JACQUELINE YOUNG AND BRENDA THURMAN-BRADFORD WITH DTE ENERGY @ 313.235.8314.
 - CONSTRUCTION AND MATERIALS PROVIDED BY THE CONTRACTOR:
 - FURNISH AND INSTALL PRIMARY WIRING DUCTS, INCLUDING ALL TRENCHING AND BACKFILL FROM TRANSFORMER TO EXISTING SERVICE.
 - FURNISH AND INSTALL PAD FOR TRANSFORMER.
 - FURNISH AND INSTALL 4" PVC SCHEDULE 40 DUCTS, INCLUDING ALL TRENCHING AND BACKFILLING FROM TRANSFORMER TO BUILDING.
 - FURNISH AND INSTALL SECONDARY WIRE FROM THE BUILDING TO THE TRANSFORMER.
 - FURNISH AND INSTALL METER BASE AND CT CABINET.
 - INCLUDE ALL FEES REQUIRED BY ELECTRIC COMPANY TO PROVIDE A COMPLETE WORKING SERVICE.
- ### TELEPHONE NOTES
- CONSTRUCTION AND MATERIALS PROVIDED BY THE TELEPHONE COMPANY:
 - COORDINATE ALL WORK WITH BRIAN GRIFFIN WITH AT&T @ 316.240.5486.
 - PROVIDE AND INSTALL WIRING TO EXISTING SERVICE.
 - CONSTRUCTION AND MATERIALS PROVIDED BY THE CONTRACTOR:
 - FURNISH AND INSTALL DUCTS FROM THE BUILDING TO EXISTING SERVICE.
 - ALL TRENCHING AND BACKFILLING.
 - INCLUDE ALL FEES REQUIRED BY TELEPHONE COMPANY TO PROVIDE A COMPLETE WORKING SERVICE.
 - CONTRACTOR SHALL COORDINATE THE NUMBER OF LINES REQUIRED WITH THE CONSTRUCTION/ PROJECT MANAGER.
- ### NATURAL GAS NOTES
- CONSTRUCTION AND MATERIALS PROVIDED BY THE GAS COMPANY:
 - TAP MAIN, GAS CONNECTION WORK DONE BY GAS COMPANY. 
 - FURNISH AND INSTALL SERVICE FROM TAP TO BUILDING.
 - ALL TRENCHING AND BACKFILLING.
 - FURNISH AND INSTALL METER.
 - COORDINATE ALL WORK WITH SAMANTHA COOK WITH DTE ENERGY @ 313.570.4133.
 - CONSTRUCTION AND MATERIALS PROVIDED BY THE CONTRACTOR:
 - FURNISH AND INSTALL SERVICE FROM METER TO BUILDING AND THROUGHOUT THE BUILDING.
 - CONTRACTOR SHALL INCLUDE ALL FEES REQUIRED BY THE GAS COMPANY TO PROVIDE A COMPLETE WORKING SERVICE.
- ### CABLE NOTES
- INSTALL 4" CABLE TV/SS CONDUIT PER CITY/VILLAGE, STATE OR NEC CODE, WHICHEVER IS MORE STRINGENT (FOR FUTURE USE). SEE ELECTRICAL SHEETS FOR DETAILS. TERMINATE CABLE CONDUIT AT RIGHT-OF-WAY. PROVIDE END CAP AND NOTE LOCATION ON AS-BUILT DRAWINGS.
- ### GENERAL LEGEND
- | EXISTING | PROPOSED | |
|---|---|--|
|  |  | PROPOSED CATCH BASIN |
|  |  | PROPOSED STORM MANHOLE |
|  |  | PROPOSED CLEAN OUT |
|  |  | PROPOSED EXTERIOR GREASE INTERCEPTOR |
|  |  | PROPOSED ELECTRIC TRANSFORMER |
|  |  | PROPOSED LIGHT POLE |
|  |  | PROPOSED CURB |
|  |  | PROPOSED PAINTED ADA SYMBOL |
|  |  | PROPOSED DIRECTIONAL PAVEMENT MARKINGS |
|  |  | PROPOSED TRANSVERSE STRIPING |
|  |  | PROPOSED CROSSWALK STRIPING |
|  |  | PROPOSED CONCRETE |
|  |  | PROPOSED STANDARD DUTY ASPHALT |
|  |  | PROPOSED HEAVY DUTY ASPHALT |
| | | PROPOSED CONCRETE |
| | | PROPOSED STANDARD DUTY ASPHALT |
| | | PROPOSED HEAVY DUTY ASPHALT |
| | | PROPOSED CONCRETE |
| | | PROPOSED STANDARD DUTY ASPHALT |
| | | PROPOSED HEAVY DUTY ASPHALT |
| | | PROPOSED CONCRETE |
| | | PROPOSED STANDARD DUTY ASPHALT |
| | | PROPOSED HEAVY DUTY ASPHALT |
| | | PROPOSED CONCRETE |
| | | |

GENERAL SHEET NOTES

- LIMITS OF WORK SHALL BE LIMITED TO WITHIN THE PROPERTY LINES AND INCLUSIVE OF ALL SITE IMPROVEMENTS OUTSIDE OR PROPERTY LINES DEPICTED IN THIS PLAN SET.
- EXISTING SIGN AND ASSOCIATED TO BE REMOVED. DISCONNECT, CUT AND CAP ELECTRICAL SERVICE.
- EXISTING CURB TO BE SAWCUT AND REMOVED. PER DETAIL, 1" CURB DROP.
- EXISTING PAVEMENT TO BE REMOVED AND REPAIRED UPON DRIVE APRON INSTALLATION.
- EXISTING LANDSCAPING (INCLUDING BUSHES, TREES, ETC.) TO BE REMOVED.
- EXISTING CURB TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION.
- EXISTING PAVEMENT TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION.
- EXISTING SIGNAGE TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION.
- EXISTING UTILITIES TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION.
- EXISTING LANDSCAPING (INCLUDING BUSHES, TREES, ETC.) TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION.
- EXISTING CURB CUT TO BE MODIFIED FOR PROPOSED IMPROVEMENTS.

DEMOLITION NOTE:

ALL EXISTING SITE AND SURROUNDING FEATURES SUCH AS UTILITIES, PAVEMENT, CURB, LANDSCAPING, ETC. SHALL REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION UNLESS NOTED OTHERWISE, OR ARE REQUIRED TO BE MODIFIED OR REMOVED FOR THE INSTALLATION OF PROPOSED IMPROVEMENTS. ALL DISTURBED FEATURES SHALL BE RESTORED OR RELOCATED AS REQUIRED TO THE SATISFACTION OF THE OWNER. CONTRACTOR SHALL REPAIR/REPLACE ANY SURROUNDING FEATURES DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES AT NO ADDITIONAL COST AND TO THE SATISFACTION OF THE OWNER.

LEGEND

(SEE SHEET C-001 FOR GENERAL LEGEND)

- EXISTING ASPHALT TO BE REMOVED
- ##L.F.# DENOTES LIMITS OF SAWCUT
- DEMOLITION KEYNOTE

EXISTING STRUCTURES

STRCT. ID	STRUCTURE DETAILS
ST 100	EXISTING CATCH BASIN RIM=612.46 NO VISIBLE PIPES T/SEDIMENT=600.01
ST 101	EXISTING STORM MANHOLE RIM=613.07 NO VISIBLE PIPES T/SEDIMENT=600.17
SAN 102	EXISTING SANITARY MANHOLE RIM=612.96 INV. 12", N=594.85 INV. 12", S=594.81
ST 103	EXISTING CATCH BASIN RIM=612.55 NO VISIBLE PIPES T/SEDIMENT=606.26
ST 104	EXISTING STORM MANHOLE RIM=613.73 INV. 12", S=610.73 INV. 12", N= (COULDN'T MEASURE) INV. 12", E, W=610.73
ST 105	EXISTING CATCH BASIN RIM=612.12 B/STRUCTURE=608.11
ST 106	EXISTING STORM MANHOLE RIM=612.64 B/STRUCTURE=609.01
ST 107	EXISTING CATCH BASIN RIM=612.59 INV=UNKNOWN
ST 109	EXISTING STORM LIFT STATION RIM=613.71 (EXISTING INVERTS SHOWN ARE PER TEL-SIBLEY PLAZA RECORD INFORMATION) INV. 15" RCP, E=610.65 INV. 6" EFFLUENT, E=609.15 INV. 48" RCP, S=599.85 SUMP=598.20
SAN T	EXISTING SANITARY MANHOLE T" RIM=612.35 INV. 10", W=605.28

- CITY AND COUNTY COMMENTS
- TOWNSHIP/MDOT COMMENTS
- 01.20.22 ISSUED FOR BID
- 03.11.22 ISSUED FOR CONSTRUCTION

CONTRACT DATE: 01/01/19
BUILDING TYPE: ENDEAVOR 2.0
PLAN VERSION: MARCH 2022
BRAND DESIGNER: DAN DICKSON
SITE NUMBER: 315089
STORE NUMBER: 40164

TACO BELL

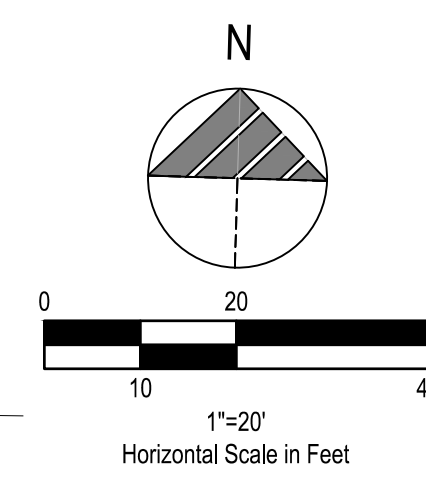
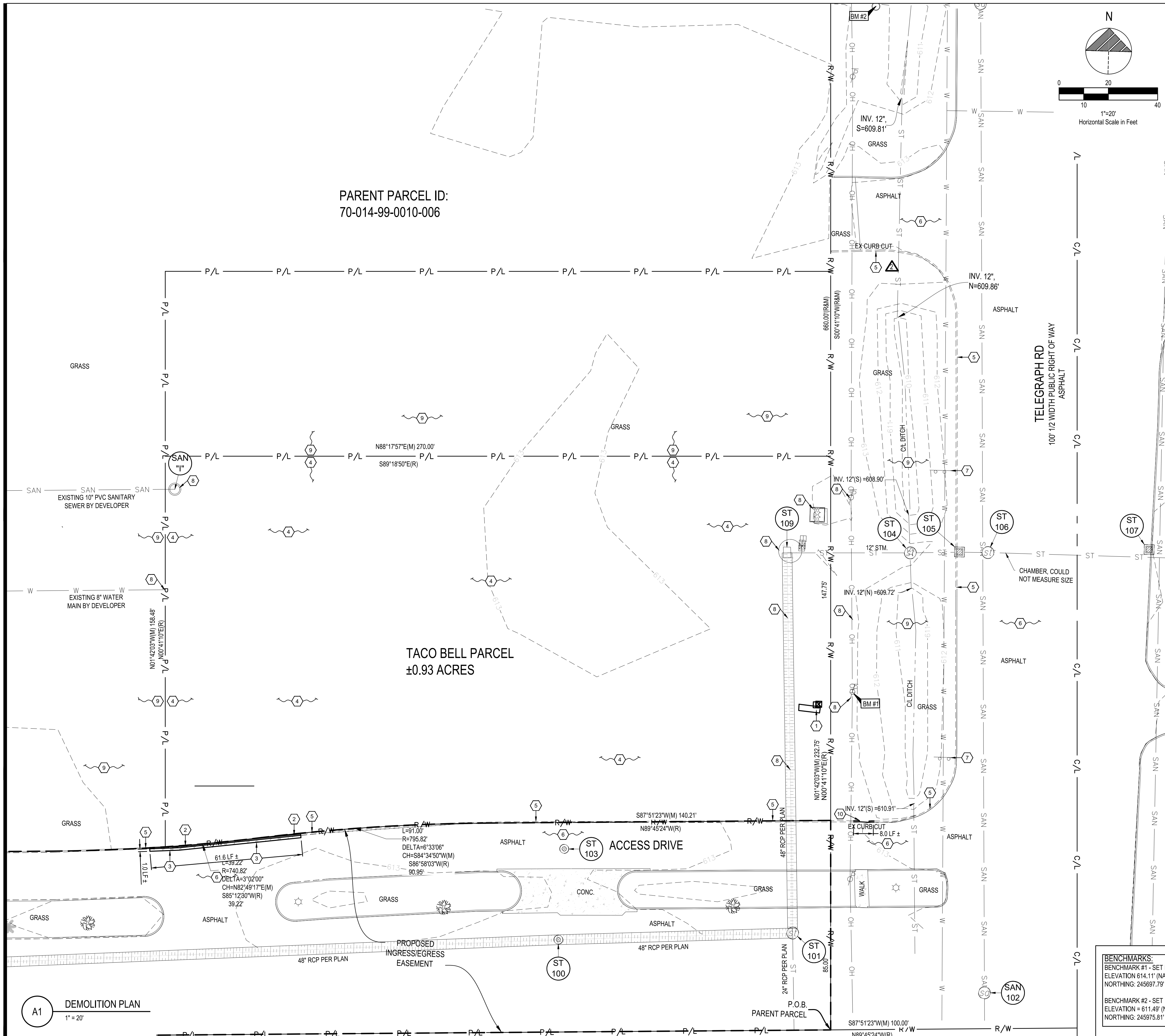
18708 TELEGRAPH RD
BROWNSTOWN, MI 48183

TACO BELL
ENDEAVOR 2.0

DEMOLITION PLAN

C-101

BENCHMARKS:
BENCHMARK #1 - SET MAC NAIL IN WEST FACE OF UTILITY POLE.
ELEVATION 614.11' (NAVD 88)
NORTHING: 245697.79 / EASTING: 13421439.82
BENCHMARK #2 - SET 1/2" IRON WITH TRAVERSE CAP.
ELEVATION = 611.49' (NAVD 88)
NORTHING: 245975.81 / EASTING: 13421443.06'

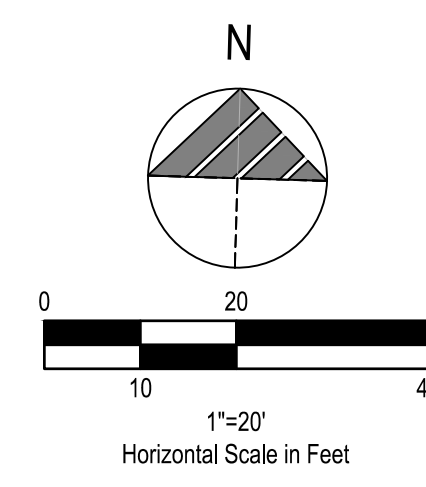


PARENT PARCEL ID:
70-014-99-0010-006

TACO BELL PARCEL
±0.93 ACRES

TELEGRAPH RD
100' 1/2 WIDTH PUBLIC RIGHT OF WAY
ASPHALT

A1 DEMOLITION PLAN
1" = 20'



- PLAN KEYNOTES (#)**
- PROPOSED CURB PER DETAIL, SHEET C-501.
 - PROPOSED CURB AT DRIVE THRU PER DETAIL, SHEET C-501.
 - PROPOSED P.C.C. WALK / P.C.C. CURBED WALK PER DETAIL, SHEET C-501.
 - PROPOSED DRIVE APRON PER WAYNE COUNTY STANDARDS AND SPECIFICATIONS. SEE DETAILS, SHEET C-502.
 - PROPOSED 6" P.C.C. PAVEMENT W/ W.W.F. 6" x 6" W2.9 x W2.9 (CONTROL JTS. 12'-0" O.C.) OVER 6" CRUSHED AGGREGATE MDT 21AA. APPLY LIQUID ASPHALT AT ALL JOINTS BETWEEN CONCRETE AND ASPHALT.
 - PROPOSED BOLLARD IN CURB PER DETAIL, SHEET C-501.
 - PROPOSED HANDICAPPED PARKING SIGN AND BOLLARD PER ADA SIGN DETAIL, SHEET C-501.
 - PROPOSED LANDSCAPING AREA. SOD ALL DISTURBED AREAS EXCEPT WHERE PLANTING BEDS ARE INDICATED. SEE LANDSCAPE PLANS.
 - PROPOSED PAINTED TRANSVERSE STRIPING PER DETAIL, SHEET C-501.
 - PROPOSED PAINTED 4" WIDE SOLID STRIPE - WHITE ON ASPHALT, YELLOW ON CONCRETE, BLUE IN ADA AREAS.
 - PROPOSED DIRECTIONAL PAVEMENT MARKINGS PER DETAIL, SHEET C-501. WHITE ON ASPHALT, YELLOW ON CONCRETE.
 - PROPOSED PAINTED ADA PAVEMENT SYMBOL PER ADA SPECIFICATIONS AND DETAIL, SHEET C-501.
 - PROPOSED PAINTED CROSSWALK STRIPING PER DETAIL, SHEET C-501.
 - PROPOSED CONCRETE COLLAR PER DETAIL, SHEET C-503.
 - PROPOSED 8'-0" O.A.H., 40 S.F. MONUMENT SIGN PER SIGN SUPPLIER SPECIFICATIONS.
 - PROPOSED FROST SLAB AT DOOR. PER STRUCTURAL PLANS FOR DETAILS DRAWINGS.
 - PROPOSED MASONRY DUMPSTER ENCLOSURE ON 8" P.C.C. PAD OVER 6" MDT 21AA AGGREGATE BASE. REFER TO DETAIL, SHEET G-002.
 - PROPOSED BIKE RACK PER DETAIL, SHEET C-501.
 - PROPOSED OUTDOOR SEATING PATIO WITH PATIO CANOPY. SEE ARCHITECTURAL PLANS.
 - PROPOSED DETERRENT BOLLARD PER DETAILS, SHEET C-501. BOLLARDS INTENDED TO PROTECT FIRE HYDRANT SHALL BE SPACED PER LOCAL FIRE DEPARTMENT REGULATIONS.
 - PROPOSED EVOLUTION PORTAL CLEARANCE BAR. SEE EVOLUTION FOUNDATION DETAIL, SHEET C-503.
 - PROPOSED MENU BOARD AND ORDER CONFIRMATION BOARD AND ASSOCIATED FOOTINGS PER SIGN SUPPLIER SPECIFICATIONS. SEE SHEET C-503.
 - PROPOSED ADA ACCESSIBLE RAMP PER DETAIL, SHEET C-501. REFER TO PLAN VIEW FOR RAMP TYPE.
 - PROPOSED STANDARD DUTY ASPHALT BIKE PATH PER BROWNSTOWN TOWNSHIP STANDARDS AND SPECIFICATIONS.
 - PROPOSED 125 L.F. OF DECORATIVE FENCE W/ BRICK BASE PER BROWNSTOWN TOWNSHIP STANDARDS AND SPECIFICATIONS. FINAL LOCATION, LENGTHS, ETC. SHALL BE PER CITY OFFICIAL AND IN COMPLIANCE WITH ELECTRIC UTILITY CLEAR DISTANCE REQUIREMENTS. REFER TO DETAIL ON SHEET C-503
 - PROPOSED DUAL SIDED DRIVE THRU SIGN PER SIGN SUPPLIER SPECIFICATIONS.
 - TEMPORARY BARRIER TO BE LEFT IN PLACE AND TO BE COORDINATED WITH ADJACENT OWNER.
 - PROPOSED "DO NOT ENTER" SIGN.
 - PROPOSED PAVEMENT REPLACEMENT. CONTRACTOR SHALL MATCH EXISTING PAVEMENT IN TYPE AND DEPTH. APPLY LIQUID ASPHALT AT ALL JOINTS WHERE PROPOSED ASPHALT MEETS EXISTING ASPHALT INCLUDING SAW CUT JOINTS.
 - PROPOSED "MOBILE PICK UP" PARKING SIGNS IN BOLLARD. SIGN TO BE PROVIDED BY SIGN VENDOR.
 - EXISTING CURB CUT TO BE MODIFIED SEE CURB TAPER DETAIL ON C-501. PROPOSED CURB OPENING SHALL FOLLOW CITY STANDARDS, AND COMPLY WITH CURRENT ACCESSIBILITY GUIDELINES.

- LEGEND**
- PROPOSED STANDARD DUTY ASPHALT PER ASPHALT PER DETAIL, SHEET C-503
 - PROPOSED HEAVY DUTY ASPHALT PER ASPHALT PAVEMENT PER DETAIL, SHEET C-503
 - PROPOSED CONCRETE PER DETAIL, SHEET C-501 AND SHEET C-502 (FOR DRIVEWAY APPROACH ONLY, KEYNOTE #4)
 - PROPOSED PARKING SPACE NUMBER
 - PROPOSED DRIVE THRU STACK CAR AND NUMBER
 - PROPOSED ADA ACCESSIBLE RAMP PER DETAIL, SHEET C-501 REFER TO PLAN VIEW FOR RAMP TYPE
 - PROPOSED UTILITY STRUCTURES, REFER TO UTILITY PLANS

BUILDING SETBACKS		REQUIRED	PROVIDED
FRONT: EAST	30'	32.9'	
REAR: WEST	10'	150.8'	
SIDE: NORTH	10'	81.3'	
SIDE: SOUTH	30'	36.4'	

PARKING SETBACKS		REQUIRED	PROVIDED
FRONT: EAST	10'	10'	
REAR: WEST	10'	10'	
SIDE: NORTH	10'	10.7'	
SIDE: SOUTH	10'	10.0'	

LANDSCAPE SETBACKS		REQUIRED	PROVIDED
FRONT: EAST	20'	10'	
REAR: WEST	10'	10'	
SIDE: NORTH	10'	10.7'	
SIDE: SOUTH	20'	10'	

PARKING SPACES		REQUIRED	PROVIDED
NUMBER OF SPACES	30	30	
NUMBER OF SHORT TERM SPACES	3	3	

LAND USE DATA		REQUIRED	PROVIDED
NUMBER OF RV PARKING SPACES	2	2	

	% OF SITE AREA	AREA PROVIDED
BUILDING PAVEMENT/IMPERVIOUS LANDSCAPING	5.2%	0.05 AC.
	71.5%	0.67 AC.
	28.5%	0.26 AC.
TOTAL	100%	0.93 AC.

CURRENT ZONING: B-2 COMMUNITY BUSINESS

- CITY AND COUNTY COMMENTS**
- TOWNSHIP/MDOT COMMENTS
 - 01.20.22 ISSUED FOR BID
 - 03.11.22 ISSUED FOR CONSTRUCTION

CONTRACT DATE: 01/01/19
BUILDING TYPE: ENDEAVOR 2.0
PLAN VERSION: MARCH 2022
BRAND DESIGNER: DAN DICKSON
SITE NUMBER: 315089
STORE NUMBER: 40164

TACO BELL
18708 TELEGRAPH RD
BROWNSTOWN, MI 48183

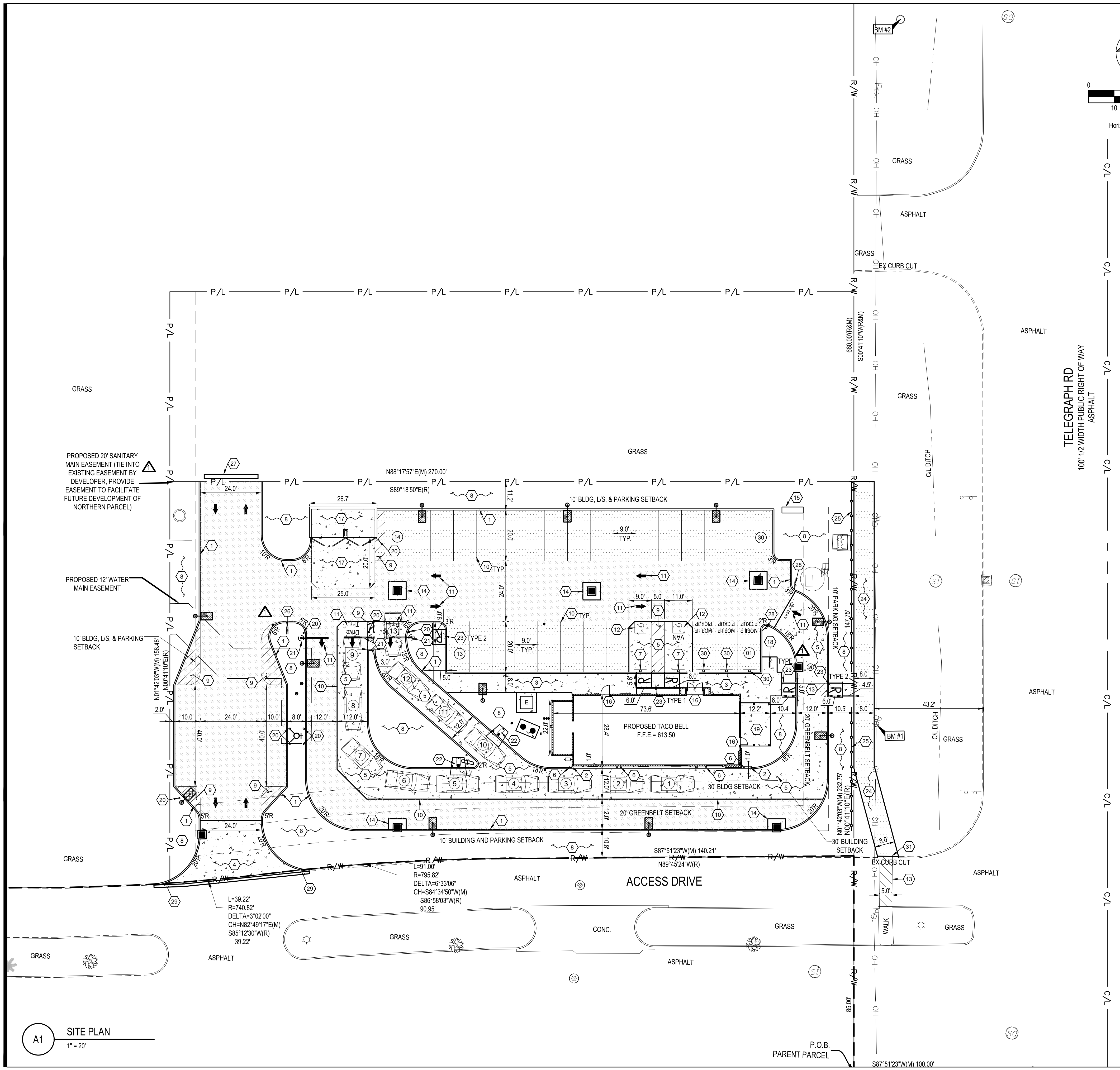
TACO BELL
ENDEAVOR 2.0

SITE PLAN

C-111



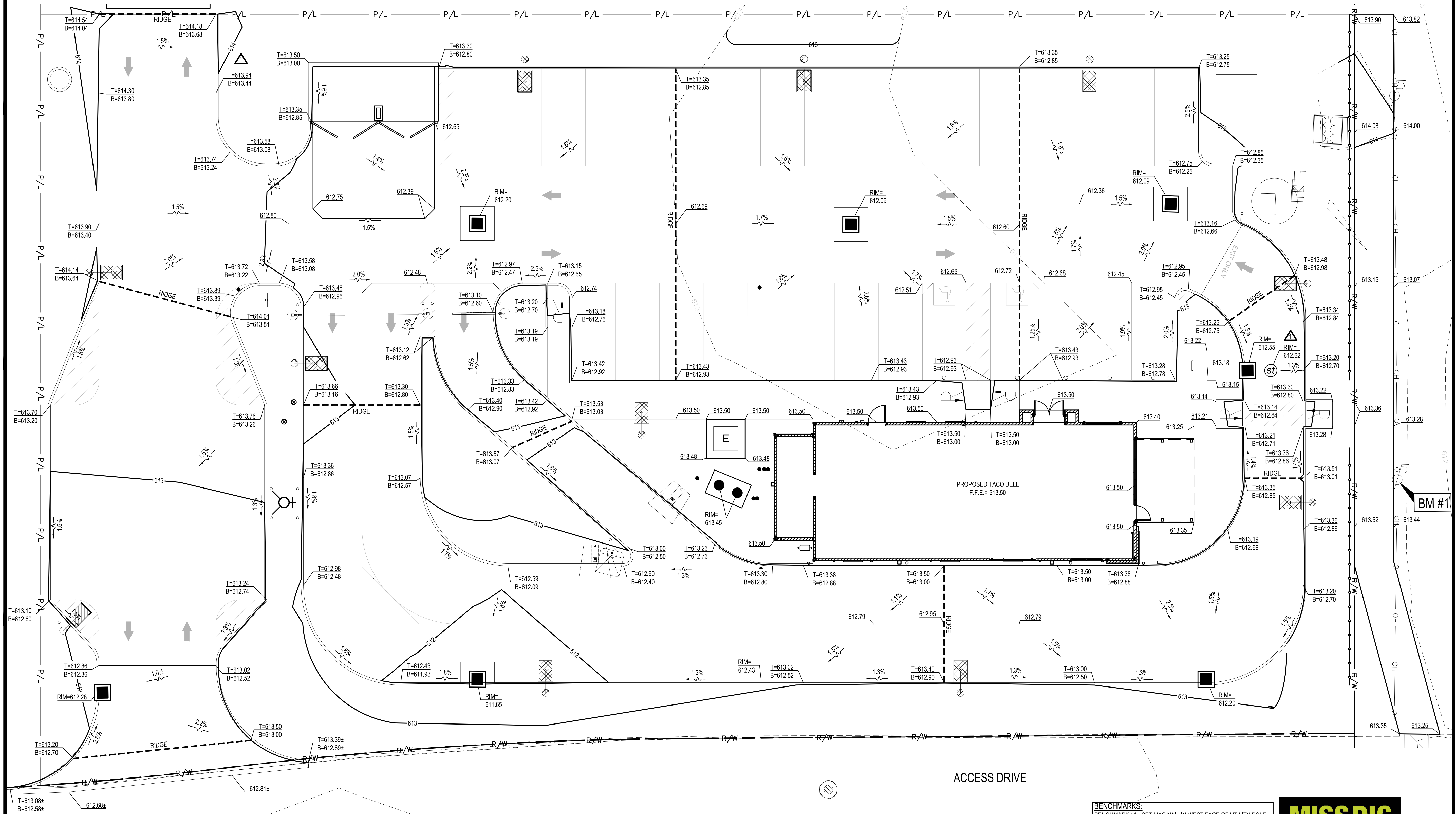
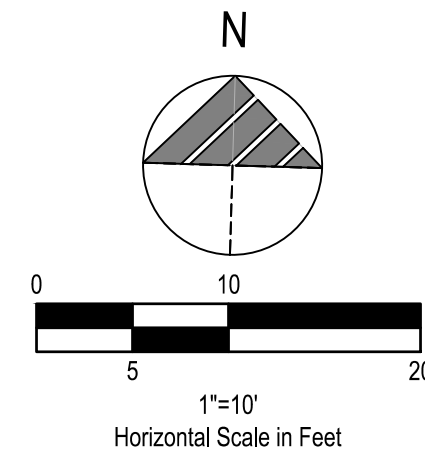
BENCHMARKS:
BENCHMARK #1 - SET MAC NAIL IN WEST FACE OF UTILITY POLE. ELEVATION 614.11' (NAVD 88)
NORTHING: 245697.79' / EASTING: 13421439.82'
BENCHMARK #2 - SET 1/2" IRON WITH TRAVERSE CAP. ELEVATION = 611.49' (NAVD 88)
NORTHING: 245975.81' / EASTING: 13421443.06'



A1 SITE PLAN
1" = 20'

LEGEND
(SEE SHEET C-001 FOR GENERAL LEGEND)

000	PROPOSED CONTOUR
000.00±	EXISTING SPOT ELEVATION
000.00	PROPOSED ELEVATION @ FINISHED GROUND ELEVATION
T=000.00	TOP OF CURB ELEVATION
B=000.00	BOTTOM OF CURB/FINISHED PAVEMENT ELEVATION
000.0±	MATCH EXISTING ELEVATION
0.0%	PROPOSED DRAINAGE SLOPE & DIRECTION



- ▲ CITY AND COUNTY COMMENTS
- ▲ TOWNSHIP/MDOT COMMENTS
- ▲ 01.20.22 ISSUED FOR BID
- ▲ 03.11.22 ISSUED FOR CONSTRUCTION
- ▲
- ▲
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- ▲

CONTRACT DATE: 01/01/19
 BUILDING TYPE: ENDEAVOR 2.0
 PLAN VERSION: MARCH 2022
 BRAND DESIGNER: DAN DICKSON
 SITE NUMBER: 315089
 STORE NUMBER: 40164

TACO BELL
 18708 TELEGRAPH RD
 BROWNSTOWN, MI 48183



ENDEAVOR 2.0

GRADING PLAN

BENCHMARKS:
 BENCHMARK #1 - SET MAC NAIL IN WEST FACE OF UTILITY POLE.
 ELEVATION 614.11' (NAVD 88)
 NORTHING: 245697.79' / EASTING: 13421439.82'
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 ELEVATION = 611.49' (NAVD 88)
 NORTHING: 245975.81' / EASTING: 13421443.06'



A1 GRADING PLAN
1" = 10'

C-121



BENCHMARKS:
 BENCHMARK #1 - SET MAC NAIL IN WEST FACE OF UTILITY POLE.
 ELEVATION 614.11' (NAVD 88)
 NORTHING: 245897.79' / EASTING: 13421439.82'
 BENCHMARK #2 - SET 1/2" IRON WITH TRAVERSE CAP.
 ELEVATION = 611.49' (NAVD 88)
 NORTHING: 245975.81' / EASTING: 13421443.06'

LEGEND
 (SEE SHEET C-001 FOR GENERAL LEGEND)

PROPOSED SILT BARRIER REFER TO SWPP DETAILS

PROPOSED SILT FENCE REFER TO SWPP DETAILS

PROPOSED CONSTRUCTION ENTRANCE REFER TO SWPP DETAILS

PROPOSED CONCRETE WASHOUT FACILITY REFER TO SWPP DETAILS

SWPP KEYNOTES

CONSTRUCTION STAGING AREA

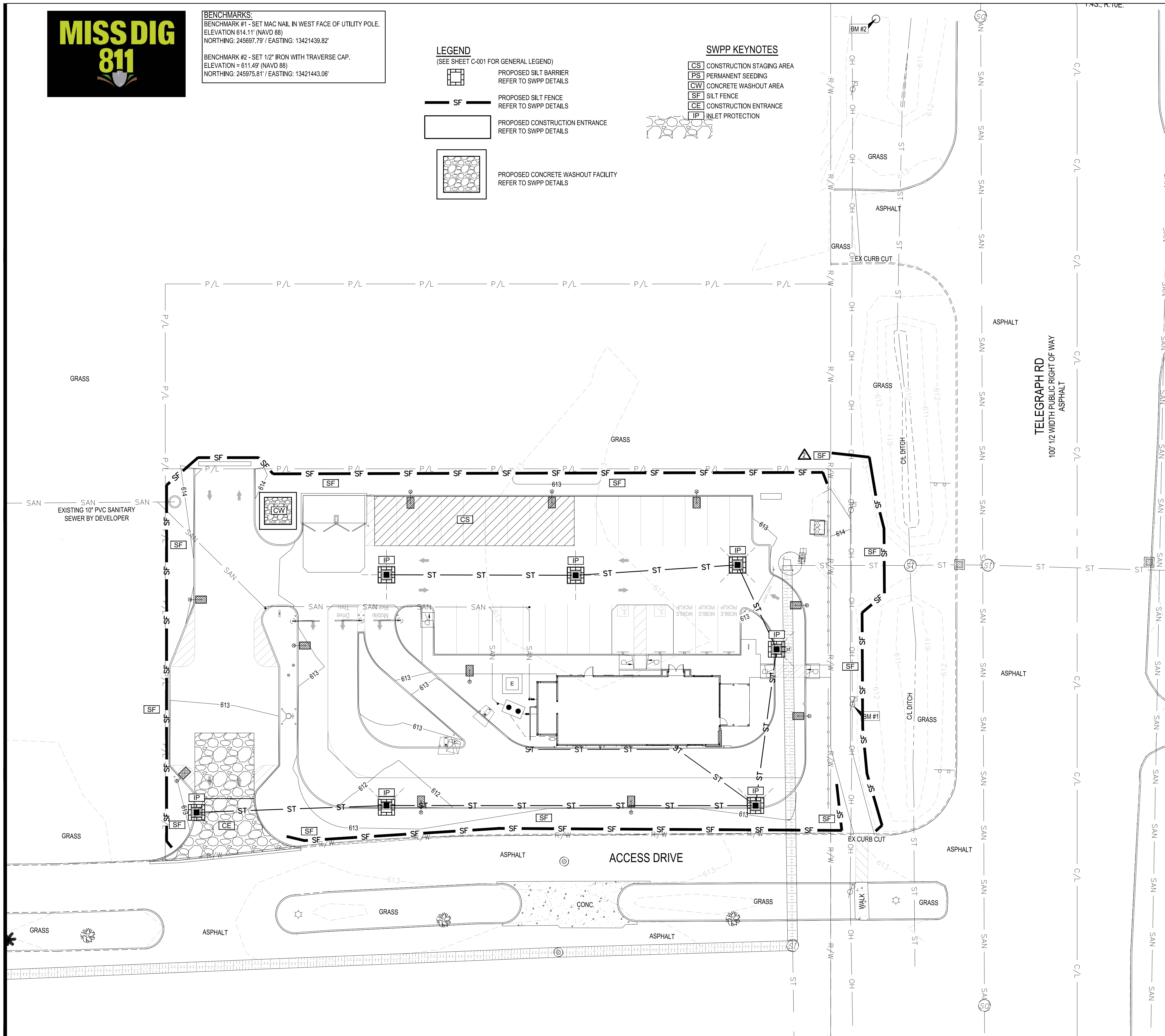
PERMANENT SEEDING

CONCRETE WASHOUT AREA

SILT FENCE

CONSTRUCTION ENTRANCE

INLET PROTECTION



- CONSTRUCTION SEQUENCE**
- DURING PRE-CONSTRUCTION MEETING ALL EROSION & SEDIMENT CONTROL FACILITIES & PROCEDURES SHALL BE DISCUSSED. A GENERAL CONSTRUCTION SEQUENCE FOLLOWS AND MAY NEED TO BE UPDATED BY THE CONTRACTOR TO SUIT THE SPECIFICS OF THE SITE AND INTENDED CONTRACTOR SPECIFIC SEQUENCING.
 - INSTALL CONSTRUCTION ENTRANCE AS DETAILED ON PLANS. TEMPORARY CONSTRUCTION FENCING SHALL BE INSTALLED AROUND PERIMETER OF CONSTRUCTION SITE. WHERE THERE IS EXISTING FENCE ALONG THE PERIMETER OF THE SITE, IT CAN BE UTILIZED. FENCING SHALL BE USED TO RESTRICT OUTSIDE TRAFFIC TO SITE.
 - DELIVER CONSTRUCTION TRAILER TO SITE AND INSTALL TEMPORARY POWER AND TELEPHONE, IF REQUIRED. TEMPORARY UTILITY SERVICES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
 - STAKE AND/OR FLAG LIMITS OF CLEARING.
 - CLEAR & GRUB, AS NECESSARY, FOR INSTALLATION OF PERIMETER CONTROLS. INSTALL SILT PERIMETER CONTROLS AS SHOWN ON PLANS. SILT PERIMETER CONTROLS SHALL BE INSTALLED LEVEL, ALONG THE CONTOURS, WITH ENDS TURNED UPSLOPE TO PREVENT CONCENTRATED FLOW AT THE SILT PERIMETER CONTROLS.
 - INSTALL TEMPORARY SILT INLET PROTECTION ON ALL EXISTING CATCH BASINS AND INLETS, AS DESIGNATED IN THE PLANS. REMOVAL OF SILT INLET PROTECTION FROM DESIGNATED INLETS CAN ONLY OCCUR WHEN A STRUCTURE IS REMOVED, AND AS REQUIRED BY THE PROGRESSION OF THE DEMOLITION AND CONSTRUCTION.
 - CLEAR & GRUB THE REMAINING SITE AS NECESSARY. TOPSOIL SHALL BE STRIPPED AND STOCKPILED ON SITE FOR REUSE, OR REMOVED TO AN APPROVED OFFSITE SPOIL AREA.
 - UTILIZE DUST CONTROL MEASURES AS REQUIRED TO MINIMIZE AIR-BORNE POLLUTION BY METHODS APPROVED BY THE AUTHORIZING EPA OFFICE.
 - BEGIN FILLING & GRADING AS REQUIRED TO REACH SUBGRADE.
 - ONCE PAVEMENT GRADES HAVE BEEN ESTABLISHED, AS DESIGNATED ON THE PLANS, THE CONTRACTOR SHALL UTILIZE THESE AREAS FOR STRUCTURE CONSTRUCTION.
 - CONSTRUCT UNDERGROUND UTILITY WORK INCLUDING STORM DRAINAGE FACILITIES. UPON INSTALLATION OF STORM DRAINAGE CATCH BASINS, YARD DRAINS AND INLETS, INSTALL REQUIRED INLET PROTECTION.
 - DO NOT REPLACE ANY TOPSOIL. SEED OR INSTALL FINAL PAVEMENT PRIOR TO COMPLETION OF BUILDING SHELL. SHOULD SITEWORK BE COMPLETED PRIOR TO THIS DATE, MULCH DISTURBED AREAS TO BE PLANTED AND INSTALL STONE SUBBASE IN DISTURBED AREAS TO BE PAVED.
 - FOLLOWING COMPLETION OF BUILDING SHELL AND PAVEMENT INSTALLATION, BEGIN LANDSCAPE INSTALLATION.
 - COMPLETE SITEWORK, PAVEMENT MARKINGS AND FINAL CLEAN-UP. RESEED ANY AREAS THAT MAY REQUIRE ATTENTION IMMEDIATELY. NOTE THAT LAWN AREAS WILL NOT BE DEEMED STABLE UNTIL A MINIMUM 80% VEGETATIVE DENSITY HAS BEEN ACHIEVED.
 - MAINTAIN EROSION & SEDIMENTATION CONTROL MEASURES UNTIL THE SITE HAS BEEN COMPLETELY STABILIZED. ALL AREAS OF VEGETATIVE SURFACE, WHETHER PERMANENT OR TEMPORARY, SHALL BE CONSIDERED TO BE IN PLACE AND FUNCTIONAL WHEN THE REQUIRED UNIFORM RATE OF COVERAGE (80%) IS OBTAINED.
 - REMOVE SEDIMENT CONTROLS.

PROJECT DESCRIPTION
 THIS SITE WAS HOME TO AN EMPTY FIELD. PROPOSED IMPROVEMENTS INCLUDE A NEW TACO BELL SITE ALONG WITH PARKING AREAS, SIDEWALKS, UTILITIES, AND AMENITY IMPROVEMENTS. WATER QUALITY AND DETENTION WILL BE DONE BY THE DEVELOPER AND ARE NOT PART OF THESE PLANS.

PROJECT COMPLETION STATISTICS

PARCEL SIZE:	0.93 ACRES
TOTAL DISTURBED AREA:	1.00± ACRES
EXISTING LAND USE FOR THE SITE IS VACANT LAND.	
ESTIMATED PRE-CONSTRUCTION IMPERVIOUS AREA:	0.00 ACRES
ESTIMATED PRE-CONSTRUCTION IMPERVIOUS PERCENT:	0%
PRE-CONSTRUCTION RUN-OFF COEFFICIENT:	0.40
PROPOSED LAND USE WILL BE TACO BELL DEVELOPMENT.	
ESTIMATED POST-CONSTRUCTION IMPERVIOUS AREA:	0.67 ACRES
ESTIMATED POST-CONSTRUCTION IMPERVIOUS PERCENT:	72%
POST-CONSTRUCTION RUN-OFF COEFFICIENT:	0.76

PROJECT LOCATION:
 LATITUDE: 42.168948°
 LONGITUDE: -83.267422°

EXISTING SITE SOIL TYPES:
 CU: CUT AND FILL LAND
 REFERENCE: USDA NATIONAL RESOURCES CONSERVATION SERVICE WEB SOIL SURVEY.

WETLAND INFORMATION:
 THERE ARE NO WETLANDS ON THIS SITE.

OWNER CONTACT:
 SAM YALDO
 TEL - SIB, LLC
 31000 NORTHWESTERN HWY, SUITE 110
 FARMINGTON HILLS, MI 48334

ANTICIPATED TIMING:
 CONSTRUCTION BEGIN: NOVEMBER, 2021
 CONSTRUCTION COMPLETE: FEBRUARY, 2022

CONTRACTOR: T.B.D.
 CONTACT: _____
 PHONE NUMBER: _____

CONTRACTOR SHALL MAINTAIN A CONSTRUCTION LOG DOCUMENTING ALL GRADING AND STABILIZATION ACTIVITIES.



- CITY AND COUNTY COMMENTS**
- TOWNSHIP/MDOT COMMENTS**
- 01.20.22 ISSUED FOR BID
 - 03.11.22 ISSUED FOR CONSTRUCTION

CONTRACT DATE: 01/01/19
 BUILDING TYPE: ENDEAVOR 2.0
 PLAN VERSION: MARCH 2022
 BRAND DESIGNER: DAN DICKSON
 SITE NUMBER: 315089
 STORE NUMBER: 40164

TACO BELL
 18708 TELEGRAPH RD
 BROWNSTOWN, MI 48183



SWPP PLAN

C-132

E5 DUST CONTROL SPECIFICATIONS

When

- On construction sites during periods of low precipitation, low humidity, and high temperature or high winds.

Why

- To reduce dust and sedimentation from wind and construction activities.

Where

- Use on unpaved roadways, construction sites with vehicle traffic, soil stockpile areas, and general areas with unstabilized, or fine soils.

How

- Dust control applications can include watering, chemical dust suppression, gravel or asphalt surfacing, temporary aggregate cover, and haul truck covers.
- Minimum length of time vulnerable areas are exposed on construction site.
- Identify and stabilize key access points prior to initiating construction.
- Quickly stabilize exposed soil by vegetation, mulch, soil erosion control blankets, spray-on adhesives, sprinkling, or stone layering to minimize areas in need of dust control.
- Follow manufacturers instructions regarding application of any dust palliative. Pay particular attention to mixing details.
- Apply dust suppressant to surfaces using a pressure type water distributor truck equipped with a spray system.
- The number of applications to be determined by site engineer.
- Immediately clean-up sediment tracked onto paved roads.
- Limit vehicle traffic to 15 miles per hour.
- Utilize aggregate cover on access, parking, and paved roads.
- Keep construction traffic directed to stabilized site roadways when possible.

STANDARD SYMBOL

E5 DUST CONTROL SPECIFICATIONS

Maintenance

- Frequent, even daily application may be required to increase effectiveness.
- Do not overwater, as overwatering may cause erosion.
- Oil should not be used for dust control, as it may enter a drainage way through runoff or seeping into the soil.

Limitations

- To continue its effectiveness, dust control application needs to be applied on a regular schedule.
- Applying too much water to surface may cause erosion.
- Some types of dust suppressants may make soil water repellent, increasing runoff.

STANDARD SYMBOL

E6 MULCHING SPECIFICATIONS

When

- When areas are subject to erosive surface sheet flows or severe wind.

Why

- Temporarily protects seeded areas and slopes against erosion from rain or wind. Holds soil moisture to allow for seed germination and reduces wind desiccation of germinated seeds. Inhibits seed consumption by birds.

Where

- Use on exposed slopes, newly seeded areas, new ditch bottoms (without perennial flow), and other areas subject to erosion.

How

- Other surface runoff control measures should be installed prior to mulching.
- Prepare surface to proper grade and compaction requirements.
- If treatment area is to be revegetated immediately, spread or drill seed, or install vegetative sprigs into planting surface.
- Select mulch material appropriate for site characteristics, including grade, level of traffic, installation method, and accessibility.
 - Straw** – Most common and widely used material. Provides organic matter as it breaks down. Effectiveness of sediment reduction high for at least 3 months. Subject to windblow and washout. For straw, apply a minimum of 2 tons/acre or approx. 50 lbs./1000 sq.ft. to cover the surface. Increase application rates 50% for dormant seeding.
 - Rock** – Crushed stone and gravel maintain effectiveness indefinitely if maintained to repair compaction. Cover 2-3" in depth (approx. 2.27 tons/1000 sq. ft.).
 - Wood chips/bark** – Chips decompose slowly but may require nitrogen fertilizer application to avoid nutrient deficiency. Tend to wash down slopes over 6% and may clog inlet grates. Cover 2-3" in depth.
- Mulches should not be applied if free surface water is present but may be applied to wet soil.

STANDARD SYMBOL

E6 MULCHING SPECIFICATIONS

How (cont.)

- Mulches (particularly straw) may need anchoring. Common methods include crimping, disking, or punching into soil; covering with netting; spraying with a binder/tackifier, or keeping moist.
- If using a tackifier to anchor mulch in place, apply immediately after mulch has been placed. Tackifiers include:
 - Latex-Base**. Mix 37 gallons of adhesive or the manufacturer's recommended rate with a minimum of 620 lbs. of recycled newsprint as a tracer with 925 gallons of water.
 - Recycled Newsprint**. Mix 1850 lbs. of newsprint with 3700 gallons of water.
 - Wood Fiber**. Mix 1850 lbs. of wood fiber with 3700 gallons of water.
 - Gum Gum**. Mix 120 lbs. of dry adhesive and a minimum of 620 lbs. recycled newsprint as a tracer with 3225 gallons of water.
 - Other Tackifiers**. Mix 240 lbs. of dry adhesive or the manufacturer's recommended rate and a minimum of 620 lbs. of recycled newsprint as a tracer with 3225 gallons of water.

Maintenance

- Inspect mulched areas periodically and after any storm event. Repair damaged areas, reseed or replace vegetation (if necessary), and replace lost mulch immediately.
- Keep eroded soil, vehicular and pedestrian traffic, and concentrated runoff away from the mulched area.

Limitations

- Mulch can be blown or washed away if not secured.
- Organic mulches, particularly thick applications of wood chips, can reduce nitrogen availability to desired plants, may inhibit good surface coverage by vegetation, and should be supplemented with fertilizer.
- Tackifiers are slippery when wet. Equipment must be kept clean to prevent accidents.
- Tackifiers can mark vehicles, signs, or other objects if these items are not protected.
- Hay mulch should not be used, as it can contain noxious weeds.

STANDARD SYMBOL

E7 TEMPORARY SEEDING SPECIFICATIONS

When

- When an area needs stabilization during a break in construction.

Why

- Stabilizes soil.
- Prevents erosion/sedimentation problems from developing.
- Allows runoff to infiltrate soil.

Where

- Used on construction and earth change sites where earth change has been initiated but will not be completed within two normal work weeks.
- A temporary measure when an area needs stabilization during a break in construction.

How

- Review construction phasing and soil erosion control plan to identify areas requiring temporary seeding.
- Select annual grass seed for temporary cover areas.
- Seed mixes may vary, should only contain annual, non-aggressive species, and generally include rye, wheat, or oat species. Seed mixes should be obtained from a seed supplier as seed mixes are dependent on soil type, light, moisture, and use application.
- Prepare seedbed by removal of construction/woody debris. Then scarify or rake seedbed.
- Slopes steeper than 1:3 should be roughened.
- Apply seed as soon as possible after seedbed preparation. Mulch immediately after seeding all slopes, unstable soils, heavy clay soils, and all areas adjacent to wetlands, watercourses, or sensitive areas.
- The time to seed is dependent on the climate of the area. Michigan has three climatic zones.
- Protect seeded areas from pedestrian/vehicular traffic.
- Divert concentrated flows away from seeded area until vegetation is established.

STANDARD SYMBOL

TEMPORARY SEEDING DATES

How (cont.)

- Inspect temporary seeded areas weekly and following each rain event until final grading and stabilization activities are completed.
- Must be followed by permanent seeding.

Limitations

- Seeds need adequate time to establish.
- May not be appropriate in areas with frequent traffic.
- Seeded area may require irrigation in dry periods.

Seed Type	Zone			Amount	
	Zone 1 Lower Peninsula (South of U.S. 10)	Zone 2 Lower Peninsula (North of U.S. 10)	Zone 3 Upper Peninsula	per 1,000 sq. ft.	per acre
Oats, barley	4/1 - 9/15	4/15 - 8/1	5/1 - 8/1	2 lbs.	96 lbs.
Annual Rye	8/1 - 10/15	8/1 - 10/10	8/1 - 11/1	3 lbs.	120 lbs.
Wheat	9/20 - 10/15	9/10 - 10/10	9/10 - 10/1	3 lbs.	120 lbs.
Buckwheat	6/1 - 7/15	6/1 - 7/15	6/15 - 7/15	2 lbs.	75 lbs.
Perennial Ryegrass	8/1 - 10/15	6/1 - 8/1	8/1 - 10/1	0.5 lbs.	20 lbs.

Source: Adapted from USDA NRCS Technical Guide #342 (1999)

STANDARD SYMBOL



S51 SILT FENCE SPECIFICATIONS

When

- A temporary measure for preventing sediment movement.

Why

- Used to prevent sediment suspended in runoff from leaving an earth change area.

Where

- Use adjacent to critical areas, wetlands, base of slopes, and watercourses.

How

- Install parallel to a contour.
- The silt fence should be made of woven geotextile fabric.
- Silt fence should accommodate no more than 1/2 to 1 acre of drainage per 100' of fence.
- Dig a 6" trench along the area where the fence is to be installed.
- Place 6" of the silt fence bottom flap into the trench.
- Backfill the trench with soil and compact the soil on both sides. Create a small ridge on the up-slope side of the fence.
- Install wooden stakes 6 - 10' apart and drive into the ground a minimum of 12".
- Staple the geotextile fabric to the wooden stakes.
- Join sections of silt fence by wrapping ends together (See drawing).

Maintenance

- Inspect frequently and immediately after each storm event. Check several times during prolonged storm events. If necessary, repair immediately.
- If the sediment has reached 1/3 the height of the fence, the soil should be removed and disposed of in a stable upland site.
- The fence should be re-installed if water is seeping underneath it or if the fence has become ineffective.
- Silt fence should be removed once vegetation is established and up-slope area has stabilized.

STANDARD SYMBOL

S51 SILT FENCE SPECIFICATIONS

Limitations

- Silt fence may cause temporary ponding and could fail if too much water flows through the area.
- Do not use in areas with concentrated flows.
- Chance of failure increases if fence is installed incorrectly or if sediment accumulation is not removed.

STANDARD SYMBOL

S59 INLET PROTECTION - FABRIC FENCE

When

- When sediment-laden stormwater requires treatment before entering a stormwater drainage system.

Why

- To prevent sediment from entering stormwater systems.

Where

- Use in or at stormwater inlets, especially at construction sites.

How

- Stake filter fence around inlet, making sure it is trenched in well around perimeter of inlet.
- Backfill trench.
- On high side of inlet, create opening in fence between 2 stakes (typically at least 4 to 6" from ground to top of fence).
- Place pea gravel at exterior of silt fence opening to a height of at least 1" above opening.
- A filter fabric bag may be hung inside the inlet, beneath the grate (See Inlet Protection-Fabric Drop).

Maintenance

- Reconfigure pea stone as needed.
- Filter fence may cause temporary ponding and could fail if too much water flows through the area.
- Do not use in areas with concentrated flows.
- Chance of failure increases if fence is installed incorrectly or if sediment accumulation is not removed.

Limitations

- Significant flow quantities from large drainage areas may inhibit use.
- May impede flows, ponding may occur if not maintained.
- Requires frequent maintenance.

STANDARD SYMBOL

S59 INLET PROTECTION - FABRIC FENCE

Maintenance

- Reconfigure pea stone as needed.
- Filter fence may cause temporary ponding and could fail if too much water flows through the area.
- Do not use in areas with concentrated flows.
- Chance of failure increases if fence is installed incorrectly or if sediment accumulation is not removed.

Limitations

- Significant flow quantities from large drainage areas may inhibit use.
- May impede flows, ponding may occur if not maintained.
- Requires frequent maintenance.

STANDARD SYMBOL

S59 INLET PROTECTION - FABRIC FENCE

Limitations

- Significant flow quantities from large drainage areas may inhibit use.
- May impede flows, ponding may occur if not maintained.
- Requires frequent maintenance.

STANDARD SYMBOL

The State of Michigan Department of Technology Management and Budget State Facilities Administration details on this sheet has not been reviewed by the stamping party. Therefore, the stamping party makes no representation(s) with respect to its contents, and shall not be liable for such. Any reliance on this stamp shall be at the relying party(ies)'s own risk and hereby waives any and all claim(s) related to the existence of the stamp or otherwise.

S58 INLET PROTECTION - FABRIC DROP

When

- When sediment laden stormwater requires treatment before entering a stormwater drainage system.

Why

- To prevent sediment from entering stormwater systems.

Where

- Use in or at stormwater inlets, especially at construction sites or in streets.

How

- A filter fabric bag is hung inside the inlet, beneath the grate.
- Replace grate, which will hold bag in place.
- Anchor filter bag with 1" rebar for removal from inlet.
- Flaps of bag that extend beyond the bag can be buried in soil in earth areas.

Maintenance

- Drop inlet filters should be inspected routinely and after each major rain event.
- Damaged filter bags should be replaced.
- Clean and/or replace filter bag when 1/2 full.
- Replace clogged fabric immediately.
- If needed, initiate repairs immediately upon inspection.
- Remove entire protective mechanism when upgradient areas are stabilized and streets have been swept.

Limitations

- Can only accommodate small flow quantities.
- Requires frequent maintenance.
- Ponding may occur around storm drains if filter is clogged.

STANDARD SYMBOL

S58 INLET PROTECTION - FABRIC DROP SPECIFICATIONS

When

- When sediment laden stormwater requires treatment before entering a stormwater drainage system.

Why

- To prevent sediment from entering stormwater systems.

Where

- Use in or at stormwater inlets, especially at construction sites or in streets.

How

- A filter fabric bag is hung inside the inlet, beneath the grate.
- Replace grate, which will hold bag in place.
- Anchor filter bag with 1" rebar for removal from inlet.
- Flaps of bag that extend beyond the bag can be buried in soil in earth areas.

Maintenance

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- Remove entire protective mechanism when upgradient areas are stabilized and streets have been swept.

Limitations

- Can only accommodate small flow quantities.
- Requires frequent maintenance.
- Ponding may occur around storm drains if filter is clogged.

STANDARD SYMBOL

A1 CONCRETE WASHOUT AREA

N.T.S.

PLAN

- 10' MIN. width
- 18" height
- ALL CONCRETE TRUCKS SHALL WASHOUT HERE
- BLACK LETTERS ON WHITE BACKGROUND
- 10 MIL POLYETHYLENE SHEETING
- ANCHOR BALES WITH (2) 2"x2"x4" STAKES PER BALE
- BALES TO BUTT
- 3'-0" MIN SOIL EMBEDMENT
- 7'-0" TO BOTTOM OF SIGN
- FINISH GRADE
- SIGN SHALL BE PLACED IN A PROMINENT LOCATION AT WASHOUT AREA

TYPICAL SECTION

- 30"±
- 12" MAX
- 18"±
- 6" MIN DEPTH AGGREGATE ALL AROUND
- SEASONAL HIGH GROUNDWATER TABLE
- 12" MIN
- WOOD STAKE (TYPICAL)
- 6" MIN IMBEDMENT (TYPICAL)
- EXISTING GRADE

NOTES:

- CONTAINMENT MUST BE STRUCTURALLY SOUND AND LEAK FREE AND CONTAIN ALL LIQUID WASTES.
- CONTAINMENT DEVICES MUST BE OF SUFFICIENT QUANTITY OR VOLUME TO COMPLETELY CONTAIN THE LIQUID WASTES GENERATED.
- WASHOUT MUST BE CLEANED OR NEW FACILITIES CONSTRUCTED AND READY TO USE ONCE WASHOUT IS 75% FULL.
- WASHOUT AREA(S) SHALL BE INSTALLED IN A LOCATION EASILY ACCESSIBLE BY CONCRETE TRUCKS.
- ONE OR MORE AREAS MAY BE INSTALLED ON THE CONSTRUCTION SITE AND MAY BE RELOCATED AS CONSTRUCTION PROGRESSES.
- AT LEAST WEEKLY REMOVE ACCUMULATION OF SAND AND AGGREGATE AND DISPOSE OF PROPERLY.

STANDARD SYMBOL

- ▲ CITY AND COUNTY COMMENTS
- ▲ TOWNSHIP/MDOT COMMENTS
- ▲ 01.20.22 ISSUED FOR BID
- ▲ 03.11.22 ISSUED FOR CONSTRUCTION
- ▲
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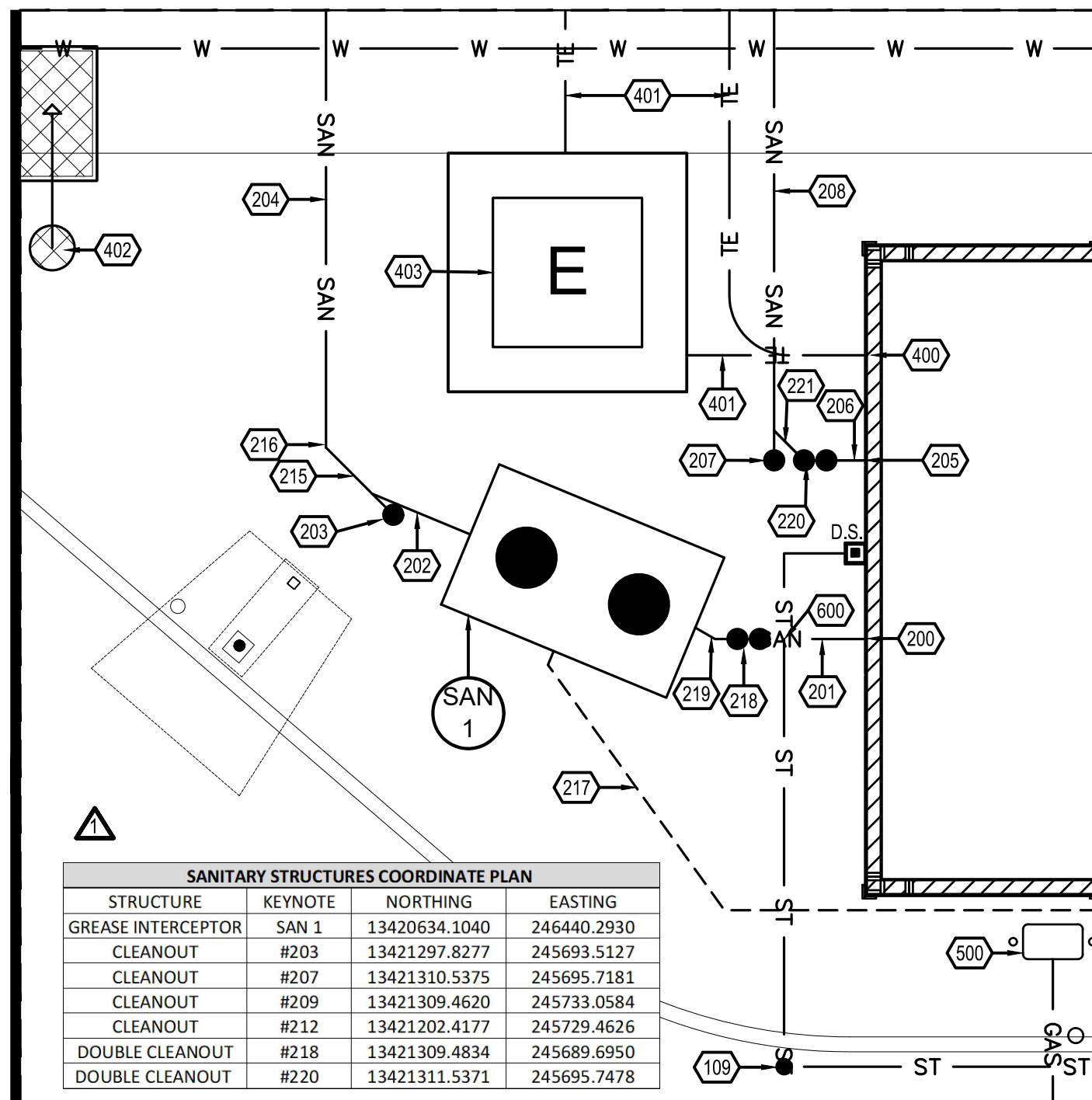
CONTRACT DATE: 01/01/19
BUILDING TYPE: ENDEAVOR 2.0
PLAN VERSION: MARCH 2022
BRAND DESIGNER: DAN DICKSON
SITE NUMBER: 315089
STORE NUMBER: 40164

TACO BELL
18708 TELEGRAPH RD
BROWNSTOWN, MI 48183



SWPP
NOTES AND DETAILS

C-133

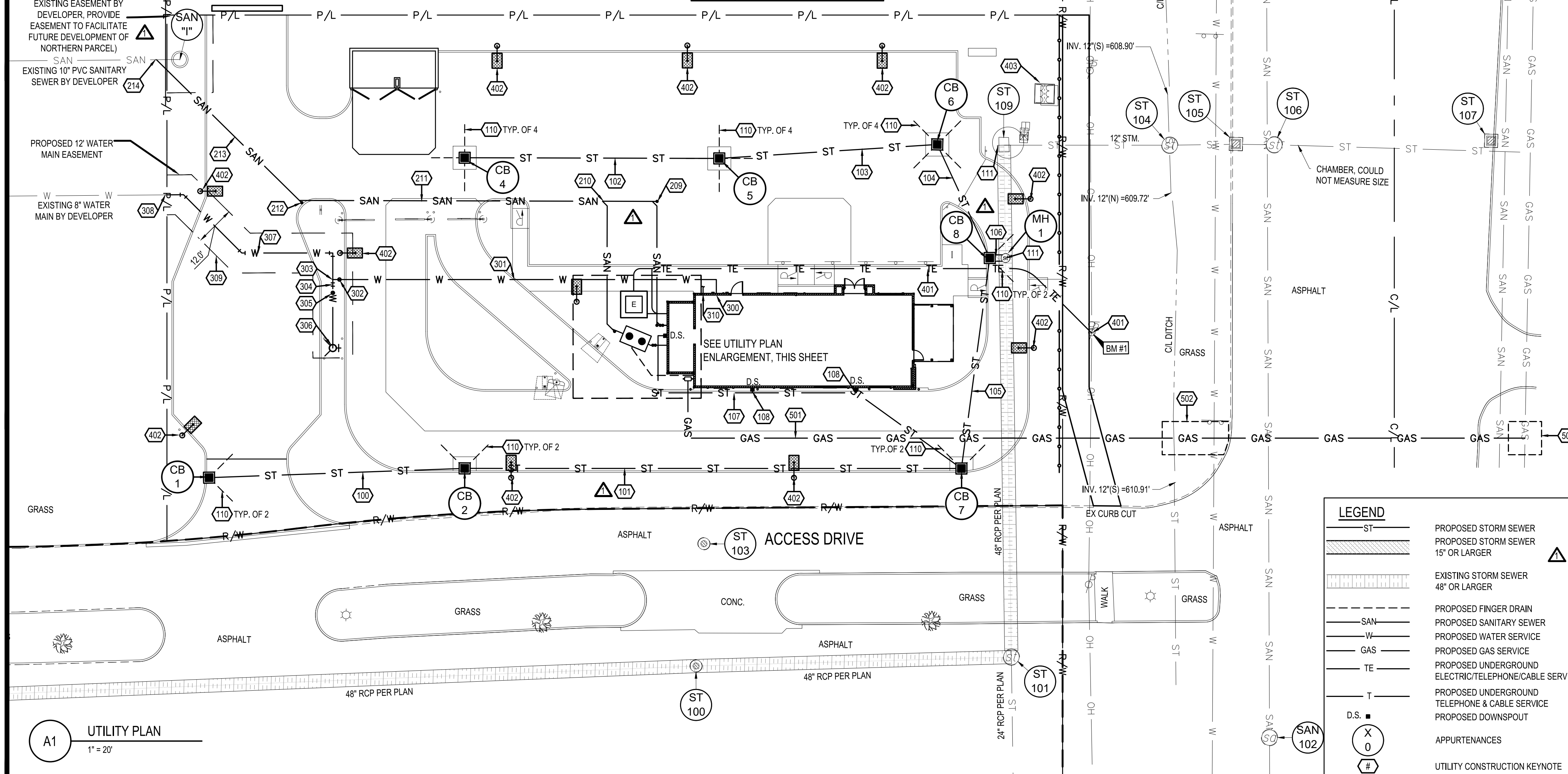


EXISTING STRUCTURES		PROPOSED STRUCTURES	
STRUCT. ID	STRUCTURE DETAILS	STRUCT. ID	STRUCTURE DETAILS
ST 100	EXISTING CATCH BASIN RIM=612.46 NO VISIBLE PIPES T/SEDIMENT=600.01	CB 1	PROPOSED CATCH BASIN (48" MIN DIAMETER, SEE DETAIL SHEET C-504) RIM=612.28 INV. 4" (NE,SE)=610.78 INV. 12" (E)=608.49
ST 101	EXISTING STORM MANHOLE RIM=613.07 NO VISIBLE PIPES T/SEDIMENT=600.17	CB 2	PROPOSED CATCH BASIN (48" MIN DIAMETER, SEE DETAIL SHEET C-504) RIM=611.65 INV. 4" (NW,NE)=610.15 INV. 12" (N,W)=605.79
SAN 102	EXISTING SANITARY MANHOLE RIM=612.96 INV. 12", N=594.85 INV. 12", S=594.81	CB 3	NOT USED
ST 103	EXISTING CATCH BASIN RIM=612.55 NO VISIBLE PIPES T/SEDIMENT=606.26	CB 4	PROPOSED CATCH BASIN (48" MIN DIAMETER, SEE DETAIL SHEET C-504) RIM=612.20 INV. 4" (N,S,E,W)=610.70 INV. 12" (W)=607.52
ST 104	EXISTING STORM MANHOLE RIM=613.73 INV. 12", S=610.73 INV. 12", N= (COULDN'T MEASURE) INV. 12", E, W=610.73	CB 5	PROPOSED CATCH BASIN (48" MIN DIAMETER, SEE DETAIL SHEET C-504) RIM=612.09 INV. 4" (N,S,E,W)=610.59 INV. 12" (E,W)=605.21
ST 105	EXISTING CATCH BASIN RIM=612.12 B/STRUCTURE=608.11	CB 6	PROPOSED CATCH BASIN (48" MIN DIAMETER, SEE DETAIL SHEET C-504) RIM=612.09 INV. 4" (NE,NW,SE,SW)=610.59 INV. 12" (W,SE)=604.22
ST 106	EXISTING STORM MANHOLE RIM=612.64 B/STRUCTURE=609.01	CB 7	PROPOSED CATCH BASIN (48" MIN DIAMETER, SEE DETAIL SHEET C-504) RIM=612.20 INV. 4" (NE,NW)=610.70 INV. 6" (SE)=607.53 INV. 12" (N)=604.29
ST 107	EXISTING CATCH BASIN RIM=612.59 INV=UNKNOWN	CB 8	PROPOSED 5' DIAMETER DOGHOUSE MANHOLE (SEE DETAIL SHEET C-504) RIM=612.62 INV. 18" (E)=602.00 EXISTING INV. 48" RCP (N, S)=599.95
SAN 108	EXISTING SANITARY MANHOLE RIM=612.35 INV. 12", S=595.50 INV. 12", N=595.60	MH 1	PROPOSED 1,000 GALLON EXTERIOR GREASE INTERCEPTOR (SEE DETAIL SHEET C-504) RIM=613.45 INV. 6" PVC (NW)=608.05 INV. 6" PVC (SE)=608.30
ST 109	EXISTING STORM LIFT STATION RIM=613.71 (EXISTING INVERTS SHOWN ARE PER TEL-SIBLEY PLAZA RECORD INFORMATION) INV. 15" RCP, E=610.65 INV. 6" EFFLUENT, E=609.15 INV. 48" RCP, S=599.85 SUMP=598.20	SAN 1	
SAN 109	EXISTING SANITARY MANHOLE "T" PER DEVELOPER PLANS RIM=612.35 INV. 10", W=605.28		

STRUCTURE	NORTHING	EASTING
CB 1	13421176.9445	245645.8370
CB 2	13421253.8887	245650.9145
CB 4	13421251.1051	245744.8844
CB 5	13421327.8301	245746.5600
CB 6	13421393.3939	245752.7133
CB 7	13421403.5712	245655.3295
CB 8	13421410.2149	245718.9845
MH 1	13421414.9928	245719.1112

D1 UTILITY PLAN ENLARGEMENT
1" = 5'

STRUCTURE	KEYNOTE	NORTHING	EASTING
FIRE HYDRANT	#306	13421213.0746	245685.9863
VALVE BOX	#305	13421212.5811	245702.6049
VALVE BOX	#302	13421214.4610	245706.6784



ST	PROPOSED STORM SEWER
ST	EXISTING STORM SEWER
SAN	PROPOSED SANITARY SEWER
W	PROPOSED WATER SERVICE
GAS	PROPOSED GAS SERVICE
TE	PROPOSED UNDERGROUND TELEPHONE/CABLE SERVICE
T	PROPOSED UNDERGROUND TELEPHONE & CABLE SERVICE
D.S.	PROPOSED DOWNSPOUT
X	APPURTENANCES
O	UTILITY CONSTRUCTION KEYNOTE
#	

PLAN KEYNOTES

- STORM**
- PROPOSED 77 L.F. OF 12" RCP STORM SEWER @ 3.50%.
 - PROPOSED 150 L.F. OF 12" RCP STORM SEWER @ 1.00%.
 - PROPOSED 77 L.F. OF 12" RCP STORM SEWER @ 3.00%.
 - PROPOSED 66 L.F. OF 12" RCP STORM SEWER @ 1.50%.
 - PROPOSED 38 L.F. OF 12" RCP STORM SEWER @ 1.50%.
 - PROPOSED 64 L.F. OF 12" RCP STORM SEWER @ 1.00%.
 - PROPOSED 3 L.F. OF 18" RCP STORM SEWER @ 0.33%.
 - PROPOSED 6" PVC DOWNSPOUT COLLECTOR LINE @ 2.50% MINIMUM. 118 L.F. TOTAL. INVERT AT BUILDING DOWNSPOUT CONNECTION TO BE 610.48.
 - PROPOSED 6" PVC DOWNSPOUT COLLECTOR LINE @ 1.00% MINIMUM. 2 L.F. TOTAL.
 - PROPOSED STORM CLEANOUT AND WYE CONNECTION PER DETAILS, SHEET C-504. INV=609.77.
 - PROPOSED FINGER DRAIN PER DETAIL, SHEET C-504.
 - CONTRACTOR TO CLEAN EXISTING LINE OF SEDIMENT/DEBRIS PRIOR TO PROPOSED CONNECTION.

- SANITARY**
- PROPOSED SANITARY CONNECTION. INV=608.38.
 - PROPOSED 4 L.F. OF 6" PVC SANITARY SEWER @ 1.25%.
 - PROPOSED 4 L.F. OF 6" PVC SANITARY SEWER @ 1.25%.
 - PROPOSED SANITARY CLEANOUT AND WYE CONNECTION (22.5 DEGREE BEND) PER DETAILS, SHEET C-504. INV=608.00. RIM=613.47.
 - PROPOSED 25 L.F. OF 6" PVC SANITARY SEWER @ 1.25%.
 - PROPOSED SANITARY CONNECTION. INV=608.25.
 - PROPOSED 2 L.F. OF 6" PVC SANITARY SEWER @ 1.25%.
 - PROPOSED SANITARY CLEANOUT AND WYE CONNECTION PER DETAILS, SHEET C-504. INV=608.18. RIM=613.48.
 - PROPOSED 38 L.F. OF 6" PVC SANITARY SEWER @ 1.25%.
 - PROPOSED SANITARY CLEANOUT AND WYE CONNECTION PER DETAILS, SHEET C-504. INV=607.70. RIM=612.50.
 - PROPOSED SANITARY WYE CONNECTION PER DETAIL, SHEET C-504. INV=607.49.
 - PROPOSED 108 L.F. OF 6" PVC SANITARY SEWER @ 1.25%.
 - PROPOSED SANITARY CLEANOUT AND WYE CONNECTION PER DETAILS, SHEET C-504. INV=606.35. RIM=613.32.
 - PROPOSED 61 L.F. OF 6" PVC SANITARY SEWER @ 1.25%.
 - PROPOSED CONNECTION TO EXISTING SANITARY SEWER MAIN BY DEVELOPER. NEATLY CORE DRILL AND PROVIDE WATER TIGHT CONNECTION. 6" PVC (SW) INVERT=605.59.
 - PROPOSED 3 L.F. OF 6" PVC SANITARY SEWER @ 1.25%.
 - PROPOSED 45 DEGREE BEND
 - PROPOSED 23 L.F. OF 3" VENT PIPE TO GREASE INTERCEPTOR. COORDINATE EXACT LOCATION WITH PLUMBING PLANS.
 - PROPOSED TWO-WAY SANITARY CLEANOUT. REFER TO PLUMBING PLANS. 6" INV= 608.33. RIM=613.47.
 - PROPOSED 2 L.F. OF 6" PVC SANITARY SEWER @ 1.25%.
 - PROPOSED TWO-WAY SANITARY CLEANOUT AND WYE CONNECTION. REFER TO PLUMBING PLANS. 6" INV= 608.22. RIM=613.49.
 - PROPOSED 3 L.F. OF 6" PVC SANITARY SEWER @ 1.25%.

- WATER**
- PROPOSED WATER CONNECTION. PROPOSED WATER METER AND BACKFLOW PREVENTOR INSIDE BUILDING PER TOWNSHIP OF BROWNSTOWN STANDARDS AND SPECIFICATIONS. BACKFLOW PREVENTOR SHALL BE LOCATED AFTER THE METER.
 - PROPOSED 121 L.F. 1.5" (TYPE K) WATER SERVICE LINE.
 - PROPOSED 2" VALVE AND BOX PER TOWNSHIP OF BROWNSTOWN STANDARDS AND SPECIFICATIONS.
 - PROPOSED WATER SERVICE TAP PER TOWNSHIP OF BROWNSTOWN STANDARDS AND SPECIFICATIONS.
 - PROPOSED 8" x 2" REDUCER.
 - PROPOSED 6" VALVE AND BOX PER TOWNSHIP OF BROWNSTOWN STANDARDS AND SPECIFICATIONS.
 - PROPOSED 18 L.F. FIRE HYDRANT ASSEMBLY PER TOWNSHIP OF BROWNSTOWN FIRE DEPARTMENT STANDARDS AND SPECIFICATIONS.
 - PROPOSED 63 L.F. 8" WATER MAIN PER TOWNSHIP OF BROWNSTOWN STANDARDS AND SPECIFICATIONS. CONTRACTOR SHALL PROVIDE THRUST BLOCKING AT ALL BENDS PER TOWNSHIP STANDARDS.
 - PROPOSED CONNECTION TO EXISTING DEVELOPER'S WATER MAIN STUB. CONTRACTOR SHALL COORDINATE WITH DEVELOPER OF ADJACENT PROPERTY SUPPLYING WATER MAIN EXTENSION TO MAKE THE FINAL CONNECTION FOR THE PROPOSED WATER MAIN EXTENSION. CONTRACTOR SHALL COORDINATE ANY NECESSARY ADJUSTMENTS OR RELOCATIONS TO DEVELOPER SUPPLIED WATER MAIN STUB.
 - PROPOSED 12" WATER MAIN EASEMENT, CONTRACTOR TO COORDINATE WITH ADJACENT DEVELOPER.
 - PROPOSED 1" IRRIGATION LINE, REFER TO IRRIGATION AND PLUMBING PLANS.

- ELECTRIC AND COMMUNICATIONS**
- PROPOSED ELECTRIC METER PER ELECTRIC COMPANY SPECIFICATIONS. ELECTRIC SERVICE LINE TO BE COORDINATED WITH THE ELECTRIC COMPANY.
 - PROPOSED ELECTRIC AND TELECOMMUNICATIONS SERVICE CONNECTION TO BE COORDINATED WITH THE UTILITY COMPANIES.
 - PROPOSED LIGHT POLE AND FOUNDATION REFER TO DETAIL ON STRUCTURAL PLANS.
 - PROPOSED PAD MOUNTED ELECTRICAL TRANSFORMER PER ELECTRICAL COMPANY SPECIFICATIONS. G.C. TO VERIFY EXACT LOCATION AND SIZE WITH UTILITY ENGINEER. IF EXISTING PAD TRANSFORMER MEETS UTILITY PROVIDER AND CLIENT REQUIREMENTS, CONTRACTOR SHALL ROUTE SERVICE CONNECTION FROM THE EXISTING PAD TRANSFORMER TO THE BUILDING INSTEAD.

- GAS**
- PROPOSED GAS METER PER GAS COMPANY SPECIFICATIONS. GAS SERVICE LINE TO BE COORDINATED WITH THE GAS COMPANY.
 - PROPOSED 274 L.F. GAS SERVICE CONNECTION TO BE COORDINATED WITH THE GAS COMPANY. BORING UNDER TELEGRAPH ROAD SHALL BE PER WAYNE COUNTY, TOWNSHIP OF BROWNSTOWN, AND UTILITY COMPANY STANDARDS AND SPECIFICATIONS.
 - PROPOSED 20"x10" BORING PIT. CONTRACTOR TO RESTORE EXISTING LANDSCAPING TO PRE-CONSTRUCTION CONDITION AFTER BORING IS COMPLETE. CONTRACTOR SHALL MAINTAIN DRAINAGE THROUGH WORK AREA.
 - PROPOSED 10"x10" BORING PIT. CONTRACTOR TO RESTORE EXISTING LANDSCAPING TO PRE-CONSTRUCTION CONDITION AFTER BORING IS COMPLETE. GAS CONNECTION TO BE PERFORMED BY UTILITY PROVIDER.

- UTILITY CROSSINGS**
- GENERAL CROSSING NOTES: CONTRACTOR SHALL COORDINATE ALL CROSSINGS WITH THE UTILITY COMPANY. PRESSURIZED AND SECONDARY UTILITIES SHALL DEFLECT TO MAINTAIN 18" VERTICAL SEPARATION AT SANITARY OR STORM SEWER CROSSINGS.
- PROPOSED UTILITY CROSSING: 6" STORM INV=610.35; 6" SANITARY INV=608.34



BENCHMARKS:
BENCHMARK #1 - SET MAC NAIL IN WEST FACE OF UTILITY POLE.
ELEVATION 614.11' (NAVD 88)
NORTHING: 245697.79' / EASTING: 13421439.82'
BENCHMARK #2 - SET 1/2" IRON WITH TRAVERSE CAP.
ELEVATION = 611.49' (NAVD 88)
NORTHING: 245975.81' / EASTING: 13422443.06'

- CITY AND COUNTY COMMENTS**
- TOWNSHIP/MDOT COMMENTS**
- 01.20.22 ISSUED FOR BID
 - 03.11.22 ISSUED FOR CONSTRUCTION

CONTRACT DATE: 01/01/19
BUILDING TYPE: ENDEAVOR 2.0
PLAN VERSION: MARCH 2022
BRAND DESIGNER: DAN DICKSON
SITE NUMBER: 315089
STORE NUMBER: 40164

TACO BELL
18708 TELEGRAPH RD
BROWNSTOWN, MI 48183



ENDEAVOR 2.0

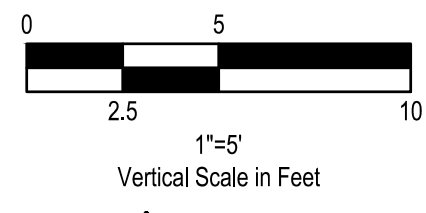
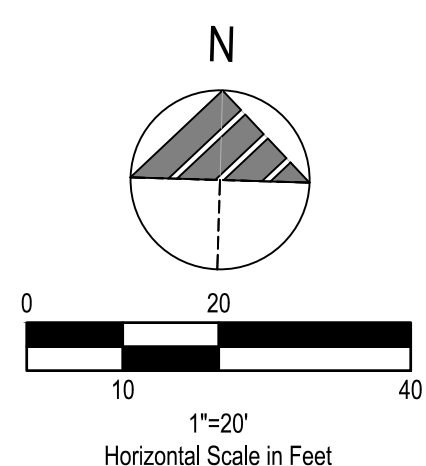
UTILITY PLAN

C-141

A1 UTILITY PLAN
1" = 20'

GENERAL SHEET NOTES

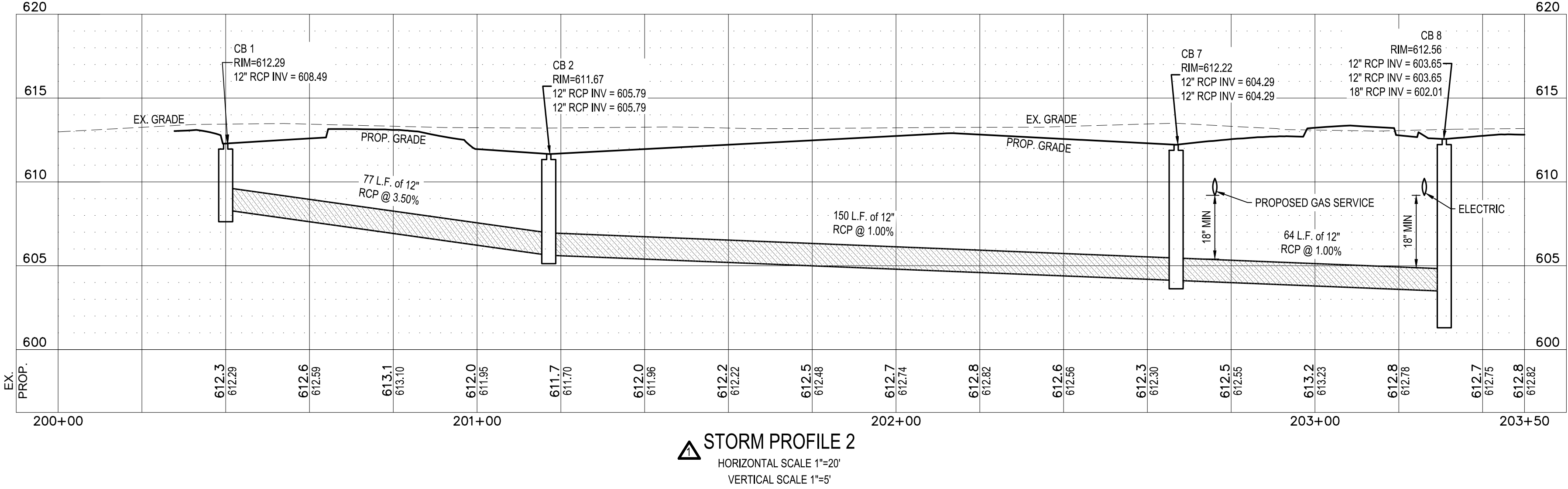
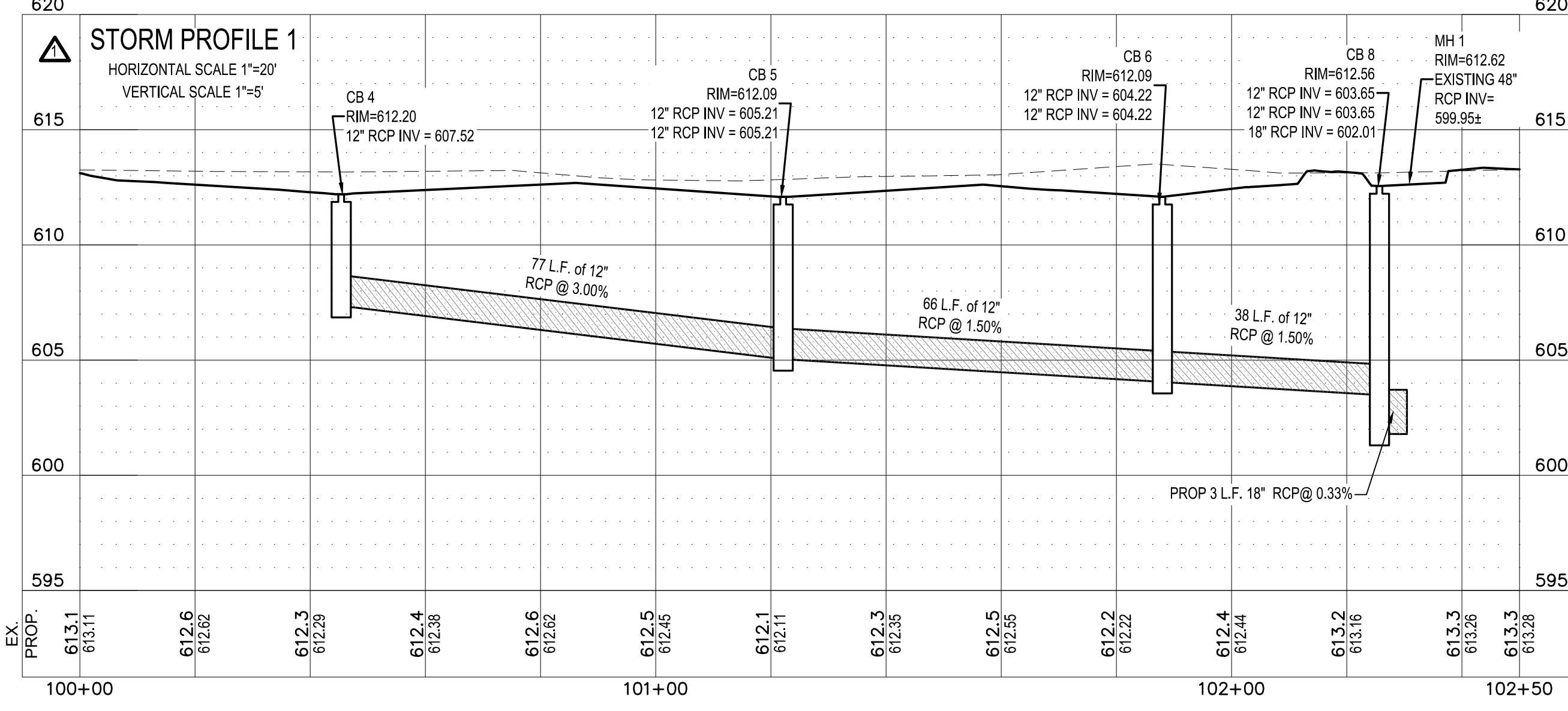
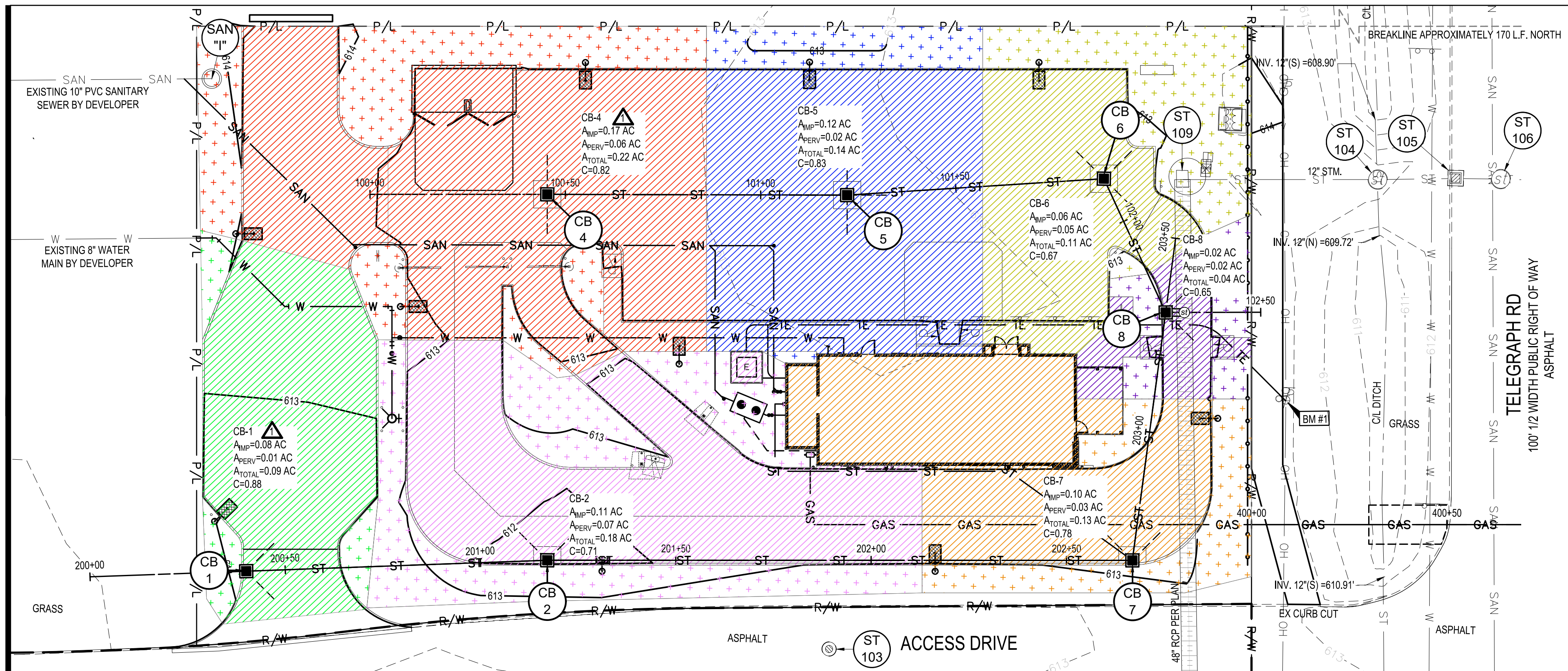
- CONTRACTOR SHALL FIELD LOCATE ALL UTILITIES WITHIN WORK AREA PRIOR TO DEMOLITION OR CONSTRUCTION ACTIVITIES.
- WATER QUALITY AND DETENTION IS PROVIDED OFF-SITE BY DEVELOPER.



LEGEND

- ST - PROPOSED STORM SEWER
- ST - PROPOSED STORM SEWER 15" OR LARGER
- ST - EXISTING STORM SEWER 48" OR LARGER
- SAN - PROPOSED FINGER DRAIN
- W - PROPOSED SANITARY SEWER
- GAS - PROPOSED WATER SERVICE
- TE - PROPOSED GAS SERVICE
- T - PROPOSED UNDERGROUND ELECTRIC/TELEPHONE/CABLE SERVICE
- T - PROPOSED UNDERGROUND TELEPHONE & CABLE SERVICE
- D.S. - PROPOSED DOWNSPOUT
- X - APPURTENANCES
- O - APPURTENANCES
- ++ - PROPOSED IMPERVIOUS DRAINAGE AREA C=0.90
- ++ - PROPOSED PERVIOUS DRAINAGE AREA C=0.40

PROPOSED STRUCTURES	
STRUCT. ID	STRUCTURE DETAILS
CB 1	PROPOSED CATCH BASIN (48" MIN DIAMETER, SEE DETAIL SHEET C-504) RIM=612.28 INV. 4" (NE,SE)=610.78 INV. 12" (E)=608.49
CB 2	PROPOSED CATCH BASIN (48" MIN DIAMETER, SEE DETAIL SHEET C-504) RIM=611.65 INV. 4" (NW,NE)=610.15 INV. 12" (NW)=605.79
CB 3	NOT USED
CB 4	PROPOSED CATCH BASIN (48" MIN DIAMETER, SEE DETAIL SHEET C-504) RIM=612.20 INV. 4" (N,S,E,W)=610.70 INV. 12" (W)=607.52
CB 5	PROPOSED CATCH BASIN (48" MIN DIAMETER, SEE DETAIL SHEET C-504) RIM=612.09 INV. 4" (N,S,E,W)=610.59 INV. 12" (E,W)=605.21
CB 6	PROPOSED CATCH BASIN (48" MIN DIAMETER, SEE DETAIL SHEET C-504) RIM=612.09 INV. 4" (NE,NW,SE,SW)=610.59 INV. 12" (W,SE)=604.22
CB 7	PROPOSED CATCH BASIN (48" MIN DIAMETER, SEE DETAIL SHEET C-504) RIM=612.20 INV. 4" (NE,NW)=610.70 INV. 6" (SE)=607.53 INV. 12" (N)=604.29
CB 8	PROPOSED CATCH BASIN (48" MIN DIAMETER, SEE DETAIL SHEET C-504) RIM=612.55 INV. 4" (NE, SE)=611.05 INV. 12" (NW, S)=603.65 INV. 18" (W)=602.01
MH 1	PROPOSED 5' DIAMETER DOGHOUSE MANHOLE (SEE DETAIL SHEET C-504) RIM=612.62 INV. 18" (E)=602.00 EXISTING INV. 48" RCP (N, S)=599.95±



Storm Sewer Tabulation

100-YEAR EVENT

Line	To Line	Len (ft)	Drg Area		Rnoff coeff (C)	Area x C		Tc (min)	Rain (l) (in/hr)	Total flow (cfs)	Cap full (cfs)	Vel (ft/s)	Pipe		Invert Elev		HGL Elev		Grnd / Rim Elev		Line ID	
			Incr (ac)	Total (ac)		Incr	Total						Size (in)	Slope (%)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)		
1	End	3,000	0.04	0.91	0.65	0.03	0.70	10.0	13.6	6.3	4.44	6.07	2.51	18	0.33	602.00	602.01	603.95	603.96	613.15	612.55	CB 8 TO MH 1
2	1	38,000	0.11	0.47	0.67	0.07	0.37	10.0	11.2	6.7	2.49	4.36	5.07	12	1.50	603.65	604.22	604.19	604.90	612.55	612.09	CB 6 TO CB 8
3	2	66,000	0.14	0.36	0.83	0.12	0.30	10.0	10.8	6.8	2.02	4.36	3.82	12	1.50	604.22	605.21	604.90	605.82	612.09	612.09	CB 5 TO CB 6
4	3	77,000	0.22	0.22	0.82	0.18	0.18	10.0	10.0	7.0	1.26	6.17	2.98	12	3.00	605.21	607.52	605.82	607.99	612.09	612.20	CB 4 TO CB 5
5	1	64,000	0.13	0.40	0.78	0.10	0.31	10.0	13.2	6.4	1.96	3.56	4.33	12	1.00	603.65	604.29	604.18	604.89	612.55	612.20	CB 7 TO CB 8
6	5	150,000	0.18	0.27	0.71	0.13	0.21	10.0	11.8	6.6	1.37	3.56	3.17	12	1.00	604.29	605.79	604.89	606.28	612.20	611.65	CB 2 TO CB 7
7	6	77,000	0.09	0.09	0.88	0.08	0.08	10.0	10.0	7.0	0.55	6.67	2.05	12	3.51	605.79	608.49	606.28	608.80	611.65	612.28	CB 1 TO CB 2

- ▲ CITY AND COUNTY COMMENTS
- ▲ TOWNSHIP/MDOT COMMENTS
- ▲ 01.20.22 ISSUED FOR BID
- ▲ 03.11.22 ISSUED FOR CONSTRUCTION

CONTRACT DATE: 01/01/19
BUILDING TYPE: ENDEAVOR 2.0
PLAN VERSION: MARCH 2022
BRAND DESIGNER: DAN DICKSON
SITE NUMBER: 315089
STORE NUMBER: 40164

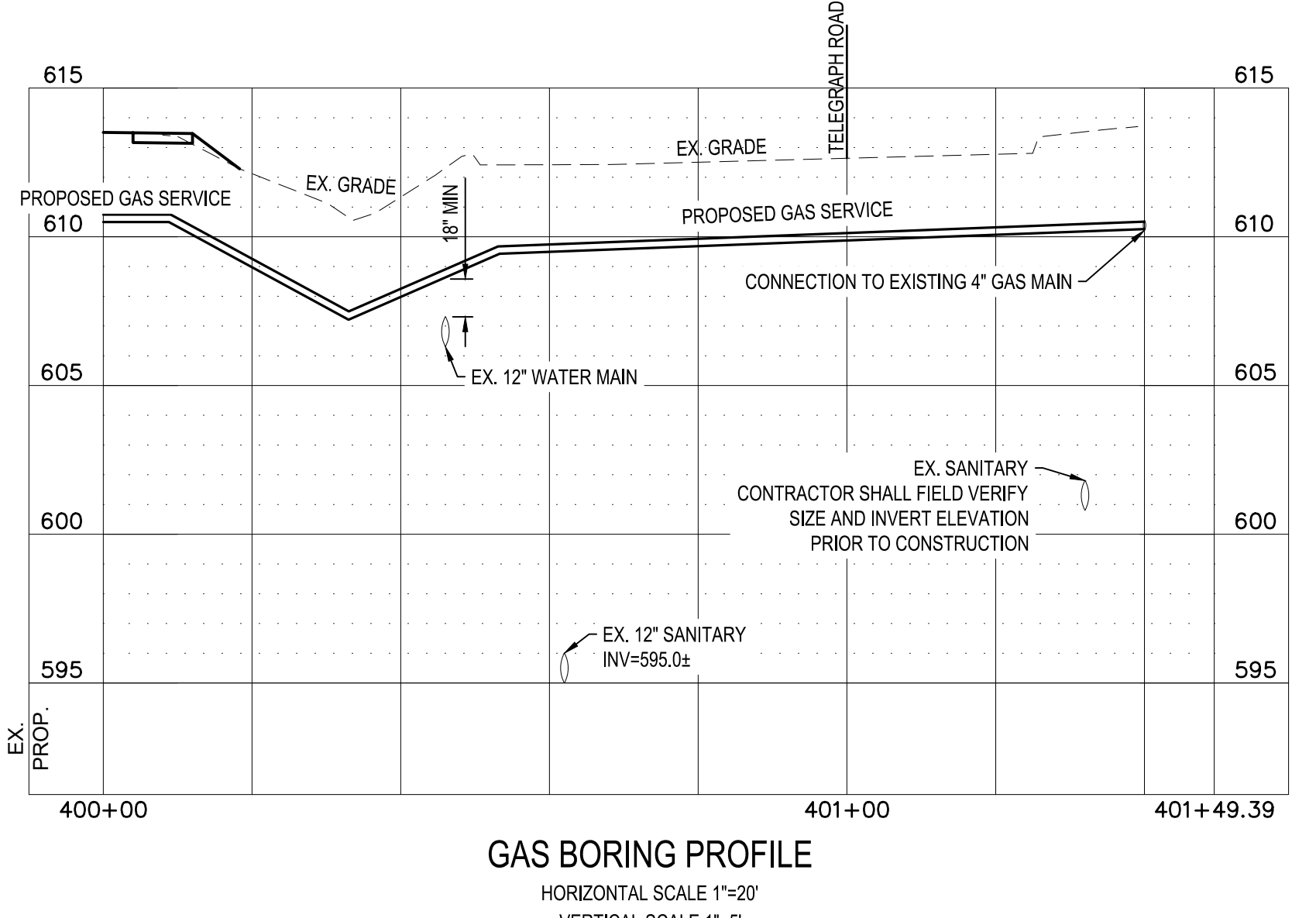
TACO BELL
18708 TELEGRAPH RD
BROWNSTOWN, MI 48183

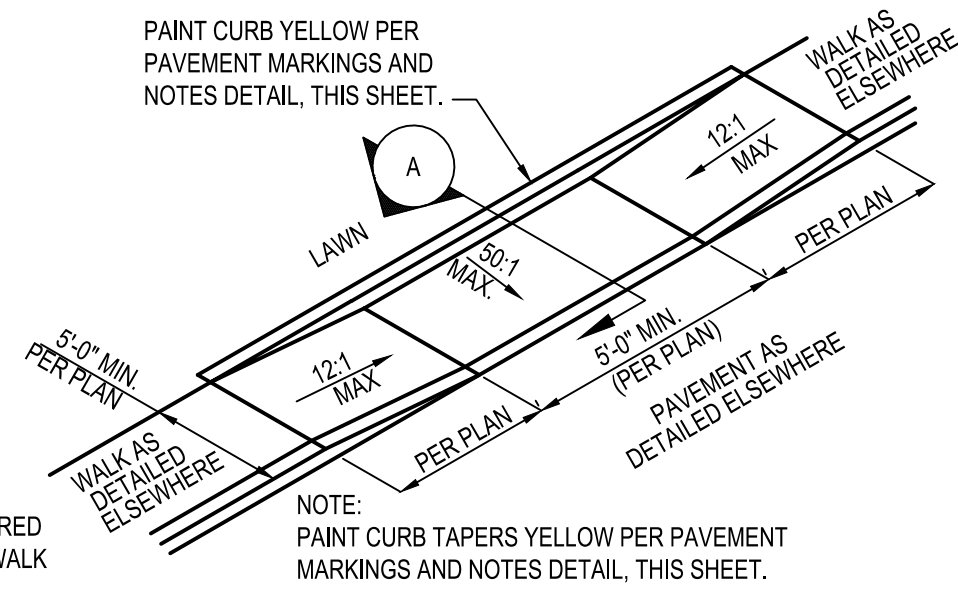
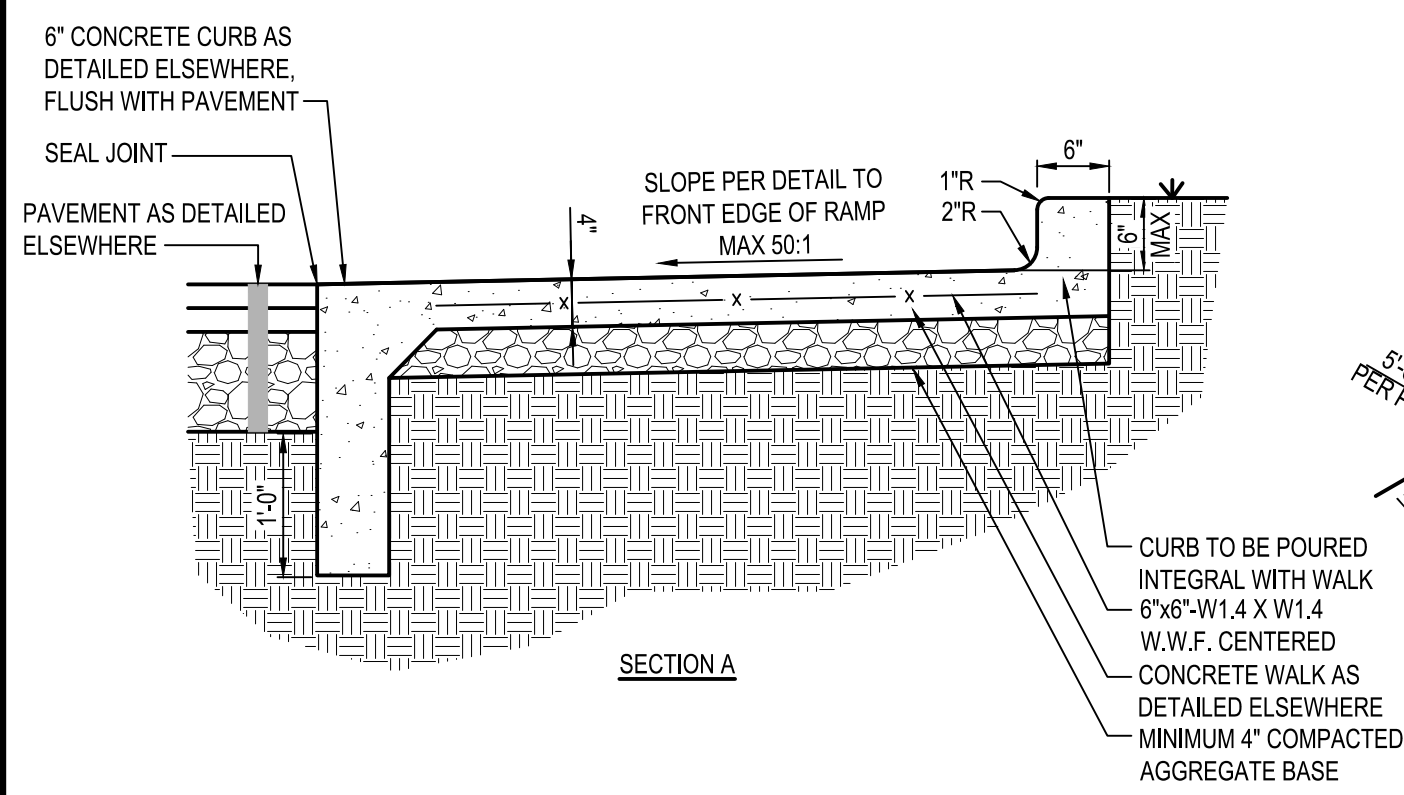


ENDEAVOR 2.0

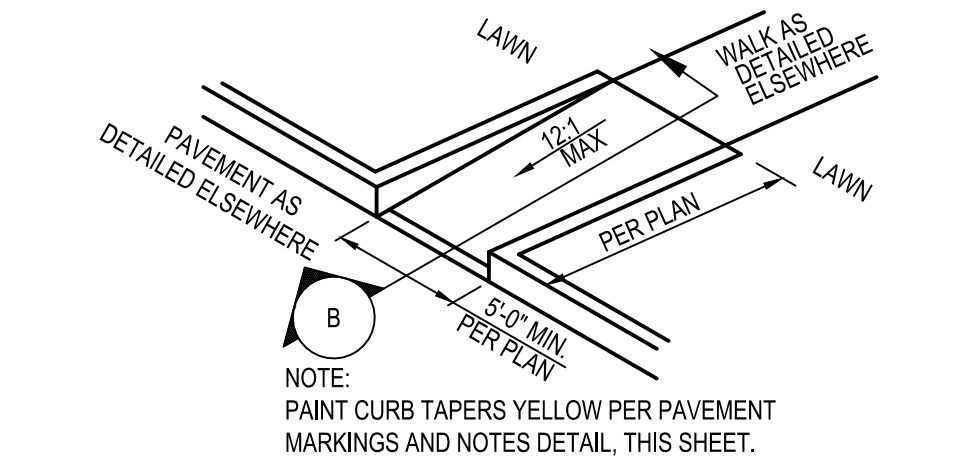
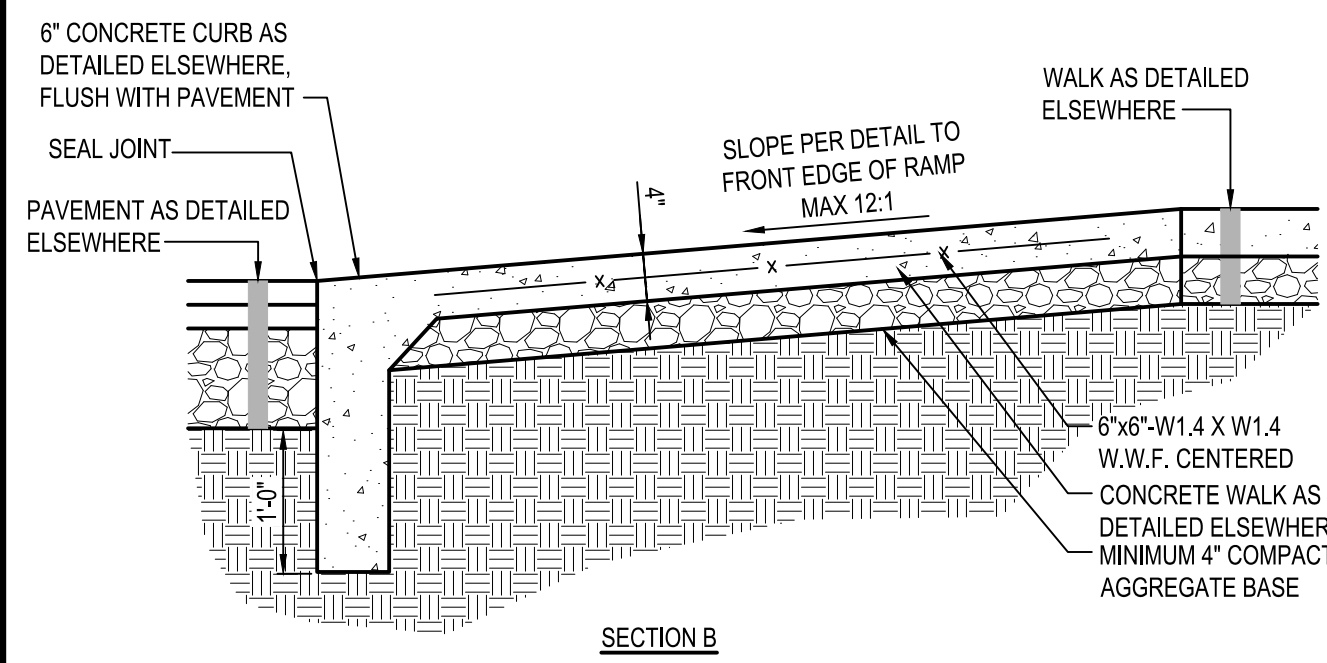
STORM CALCS AND UTILITY PROFILES

C-142





TYPE 1

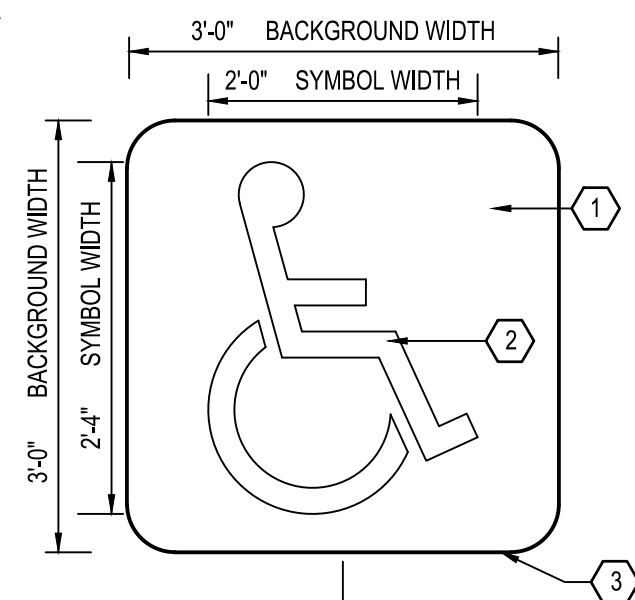


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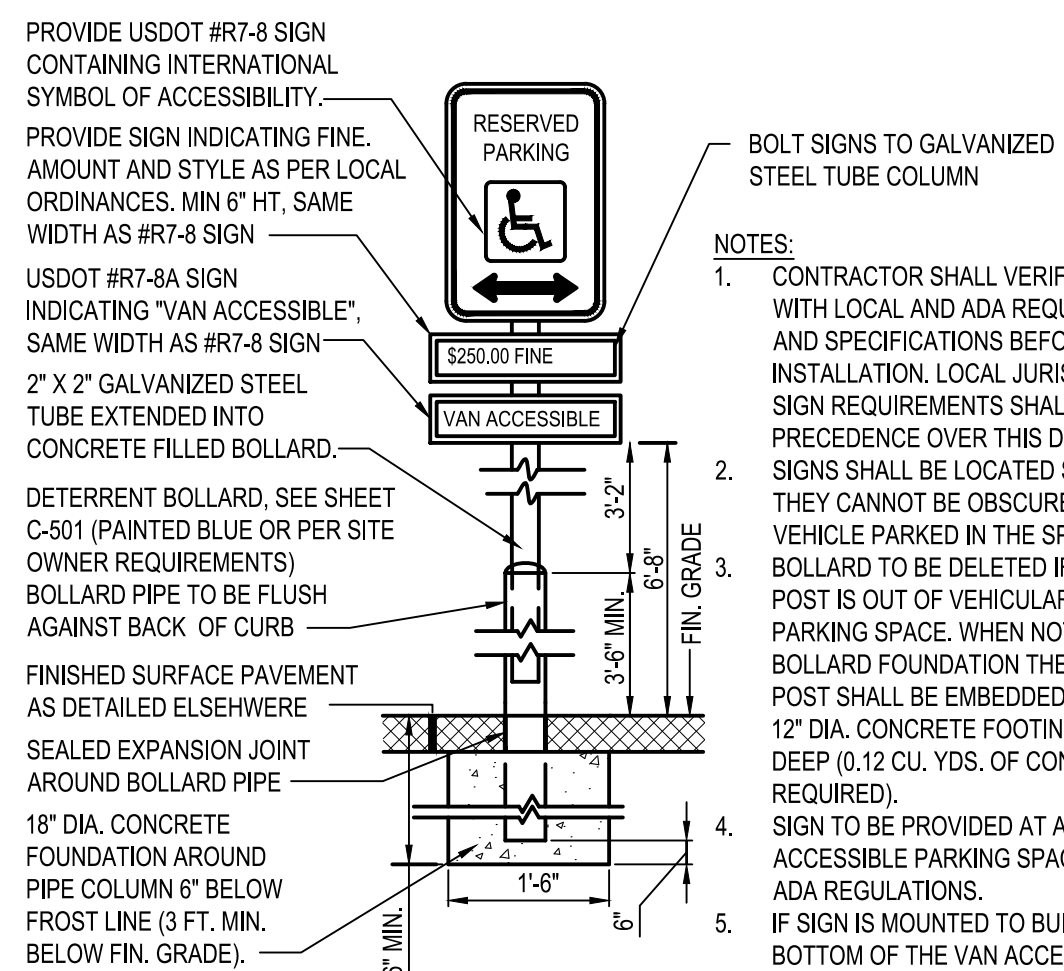
C1 ADA ACCESSIBLE RAMP
N.T.S.

KEYED NOTES

1. PAINT BACKGROUND BENJAMIN MOORE M58 SAFETY & ZONE MARKING LATEX M58-30 - BLUE
2. PAINT SYMBOL BENJAMIN MOORE M58 SAFETY & ZONE MARKING LATEX M58-01 - WHITE 4" WIDTH
3. BOTTOM EDGE OF SYMBOL BOX SHALL MATCH END OF STALL STRIPE AT DRIVE AISLE END OF STALL.

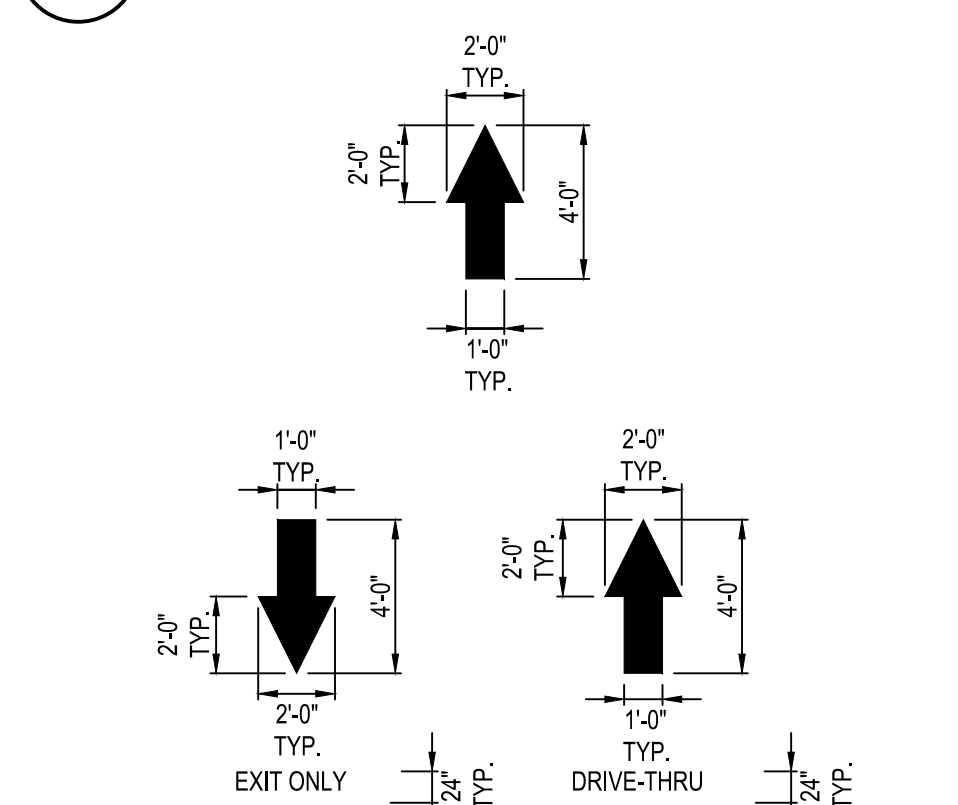


B1 ADA PAVEMENT SYMBOL
N.T.S.



A1 HANDICAPPED PARKING SIGN
N.T.S.

B2 CURB TAPER
N.T.S.



NOTES:

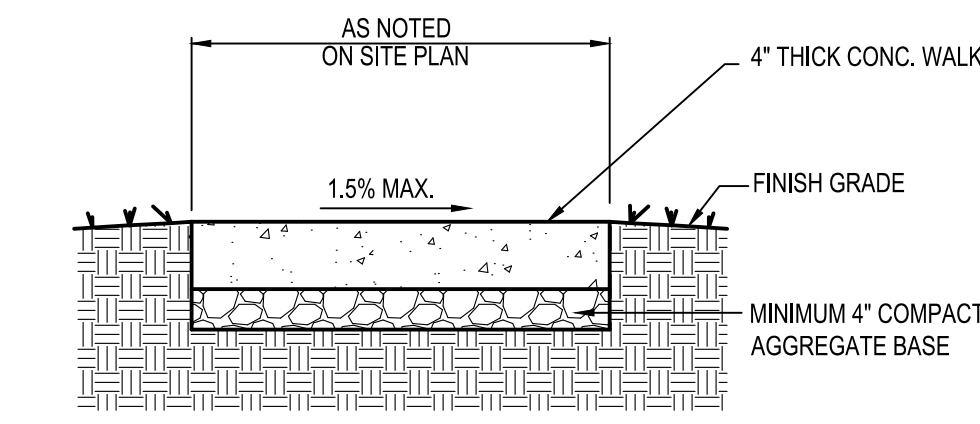
ALL PAVEMENT MARKINGS TO BE WHITE PAVEMENT PAINT, UNLESS STATED OTHERWISE. ALL PAVEMENT MARKINGS WITHIN ADA AREAS SHALL BE PAINTED BLUE EXCEPT FOR COLORS DEFINED ON THE ADA PAVEMENT SYMBOL.

MARKING (STRIPING) PAINT FOR PARKING SPACES, TRAFFIC ARROWS, ADA PARKING AND SYMBOLS, ETC., PER LOCAL REQUIREMENTS AND AS FOLLOWS:
PAVEMENT MARKINGS SHALL BE PER PAINT SHALL BE WATER BASE FAST DRYING 100% ACRYLIC TYPE: WATER BASE TO MEET FEDERAL SPECIFICATION TTP-01952B. FOR COLD WEATHER APPLICATION PAINT PRODUCT SHALL BE IN ACCORDANCE WITH ASTM-D2369, D1394, D3723, D1475, D562 AND D711.

PROVIDE A NON-SLIP AGGREGATE ADDITIVE TO MARKING PAINT USED AT ADA ACCESS RAMP.

APPLY 2 COATS WITH STRAIGHT EDGES, YELLOW ON CONCRETE/WHITE ON ASPHALT EXCEPT WHEN MATCHING ADJACENT OR EXISTING COLOR WHEN THE PAVING IS AN EXPANSION OR SEGMENT OF A LARGER LOT. CONTRACTOR SHALL APPLY THE SECOND COAT NO SOONER THAN 30 DAYS OF APPLYING THE FIRST COAT.

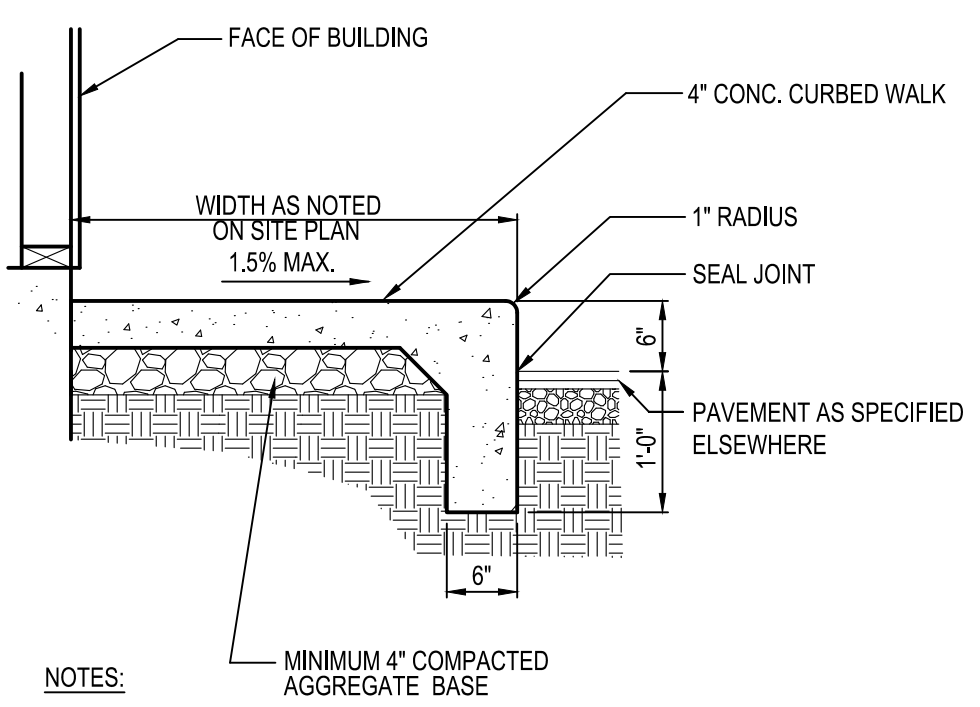
A2 PAVEMENT MARKINGS & NOTES
N.T.S.



NOTES:

1. CONTRACTOR SHALL INSTALL 1/2" PRE-FORMED EXPANSION JOINT MATERIAL AND JOINT SEALER WHERE PAVEMENT ABUTS BUILDING.

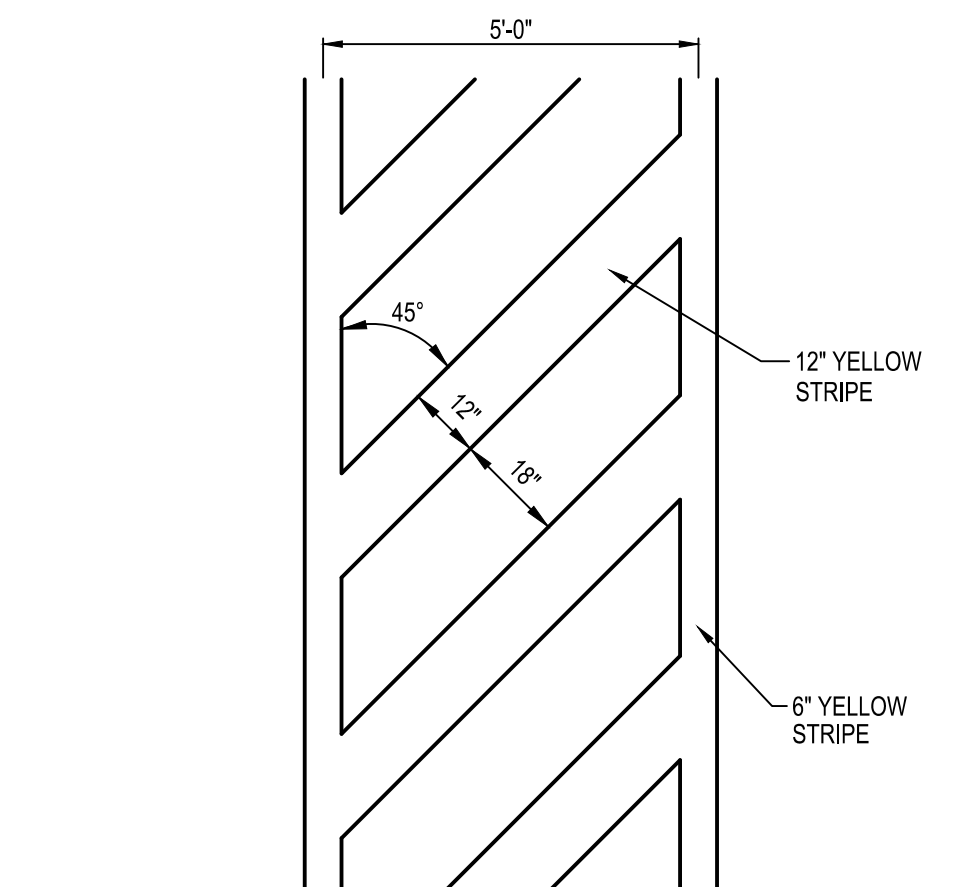
D3 P.C.C. WALK
N.T.S.



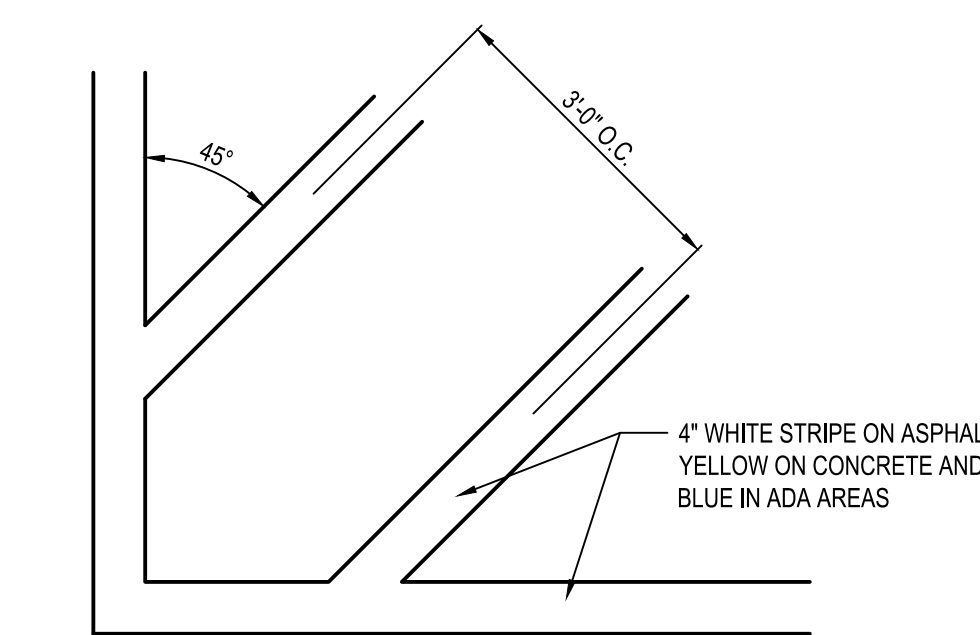
NOTES:

1. CONTRACTOR SHALL INSTALL 1/2" PRE-FORMED EXPANSION JOINT MATERIAL AND JOINT SEALER WHERE PAVEMENT ABUTS BUILDING.

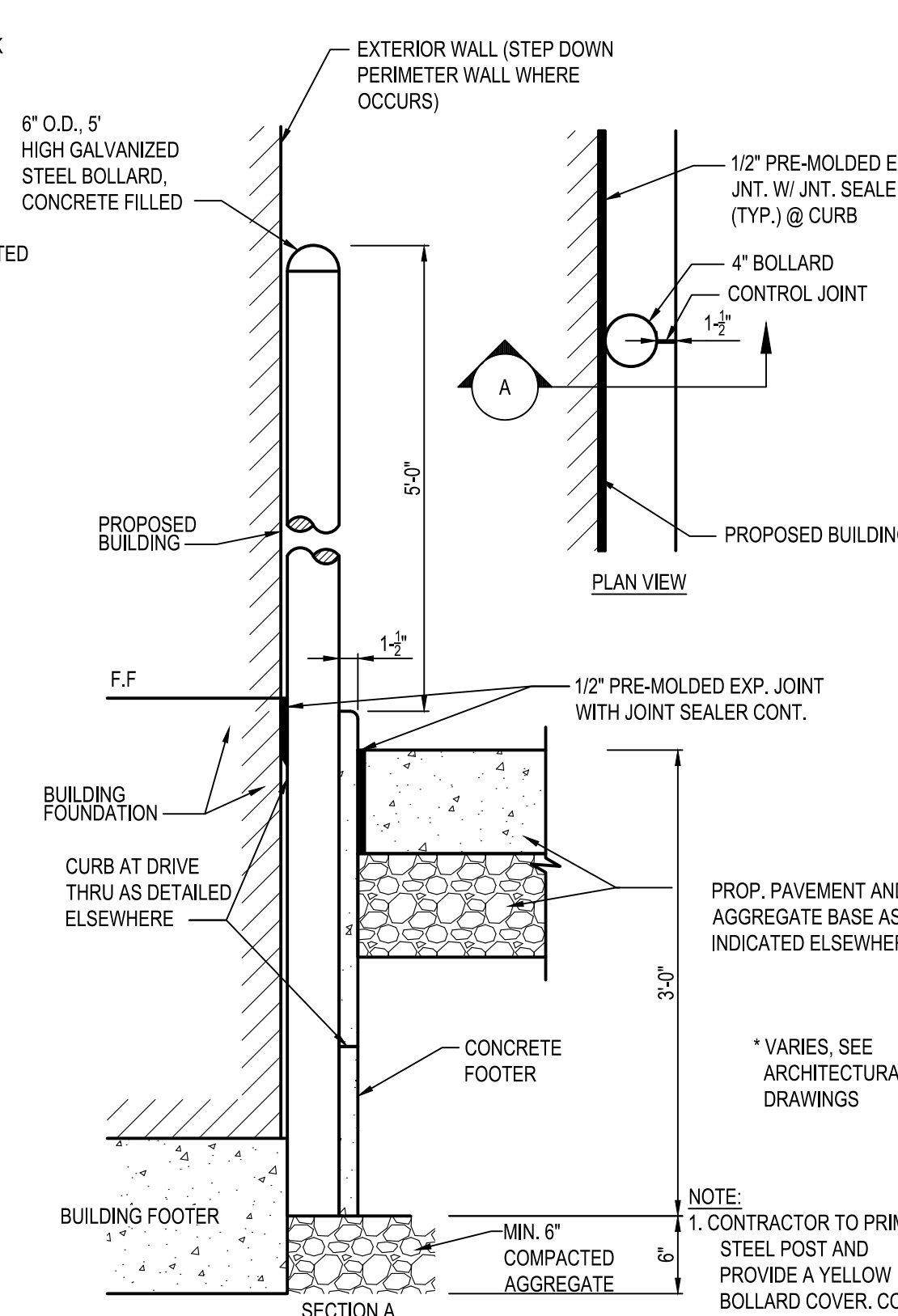
C3 P.C.C. CURBED WALK
N.T.S.



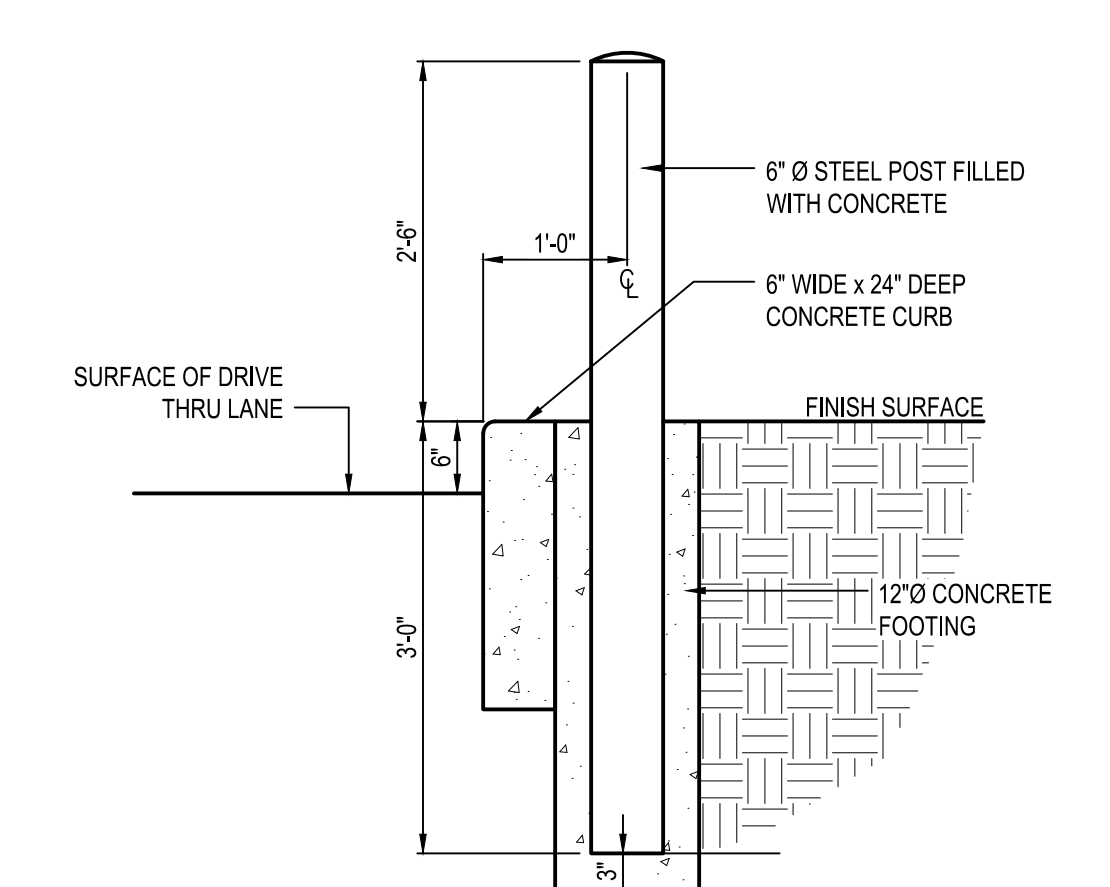
B3 CROSSWALK STRIPING
N.T.S.



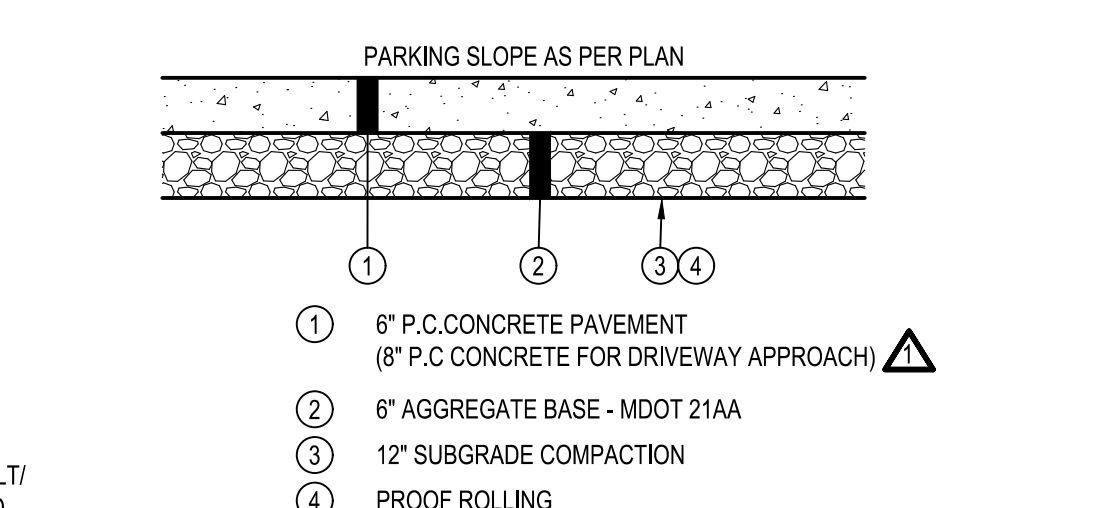
A3 TRANSVERSE STRIPING
N.T.S.



C4 DETERRENT BOLLARD (IN CURB)
N.T.S.



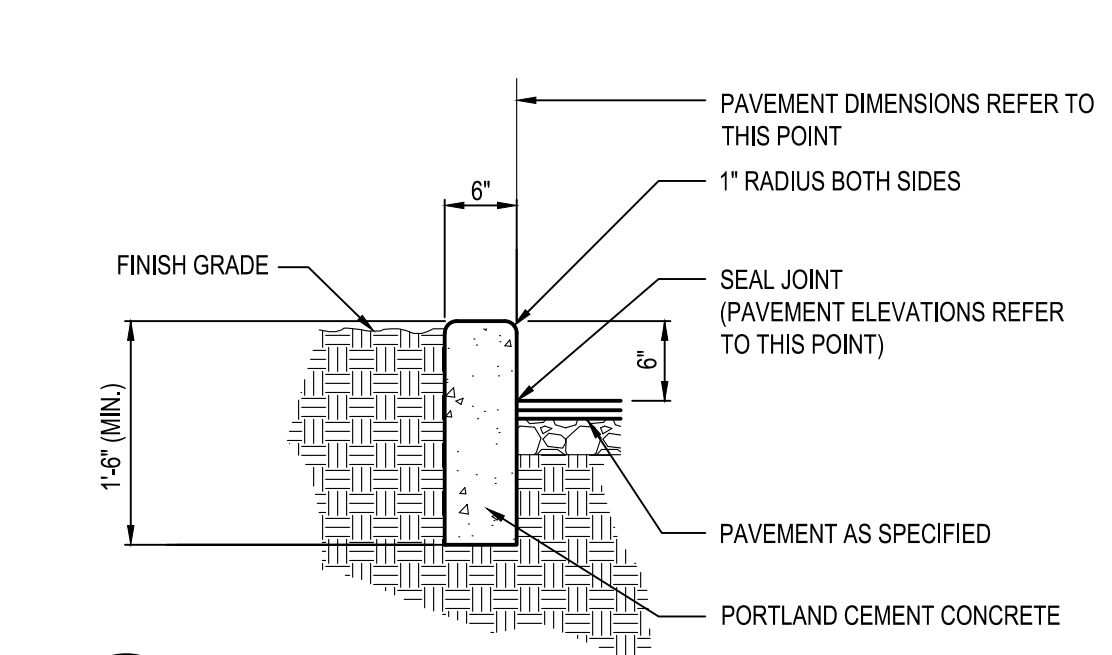
B4 DETERRENT BOLLARD
N.T.S.



NOTES:

1. APPLY LIQUID ASPHALT AT ALL JOINTS BETWEEN CONCRETE AND ASPHALT. APPLY CONCRETE SEALANT CONFORMING TO ASTM D6690 WHERE PROPOSED CONCRETE MEETS EXISTING CONCRETE.
2. SEE SITE PLAN FOR PAVEMENT THICKNESSES AND REINFORCEMENT.
3. CONCRETE PAVEMENT SHALL HAVE CONTROL JOINTS AT 12'-0" O.C.

A4 TYPICAL CONCRETE PAVEMENT SECTION
N.T.S.



D5 CURB
N.T.S.

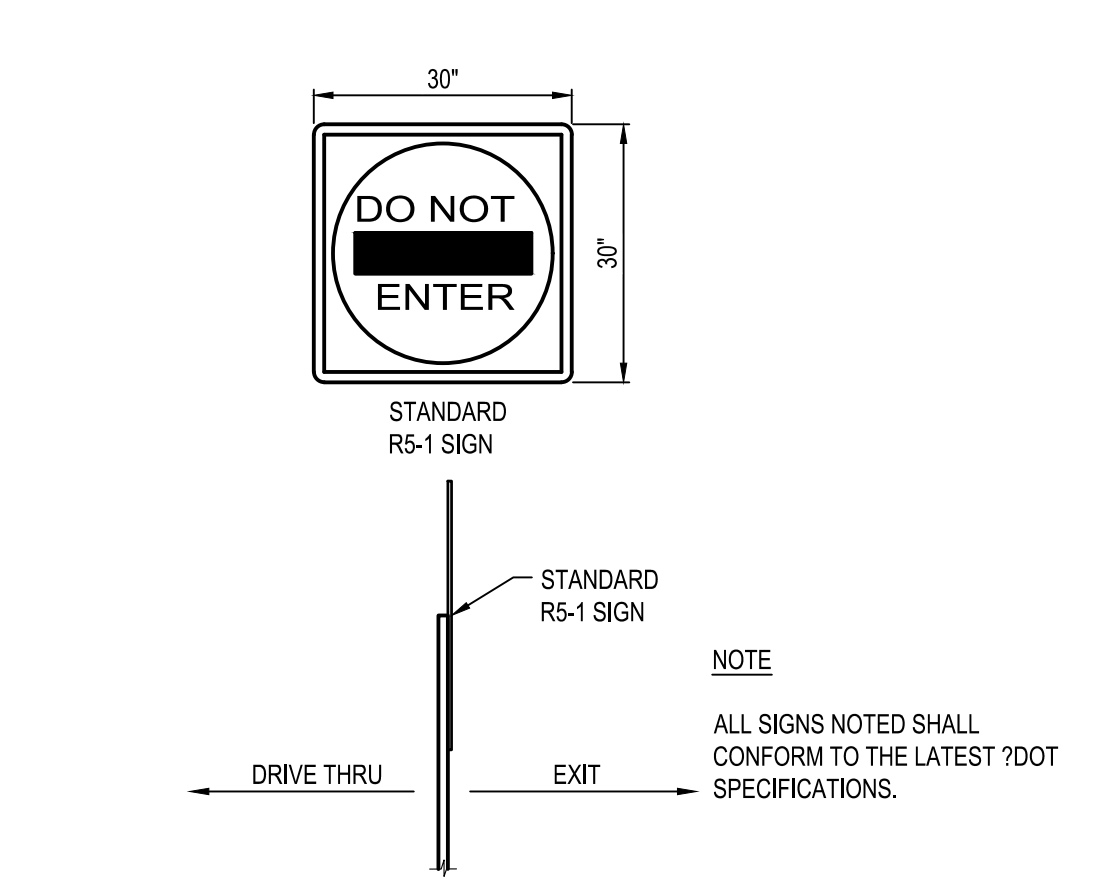
KEYED NOTES

1. FACE OF BUILDING
2. CONCRETE CURB
3. 1" RADIUS
4. PAVEMENT AS SPECIFIED
5. 1/2" PRE MOLDED EXP. JNT. CUT BACK AND PROVIDE SEALANT, TYPICAL, AT ALL JOINTS WITH FILLER.
6. SEAL JOINT
7. 15LB BOND BREAK MATERIAL BELOW EXP. JNT. MATERIAL

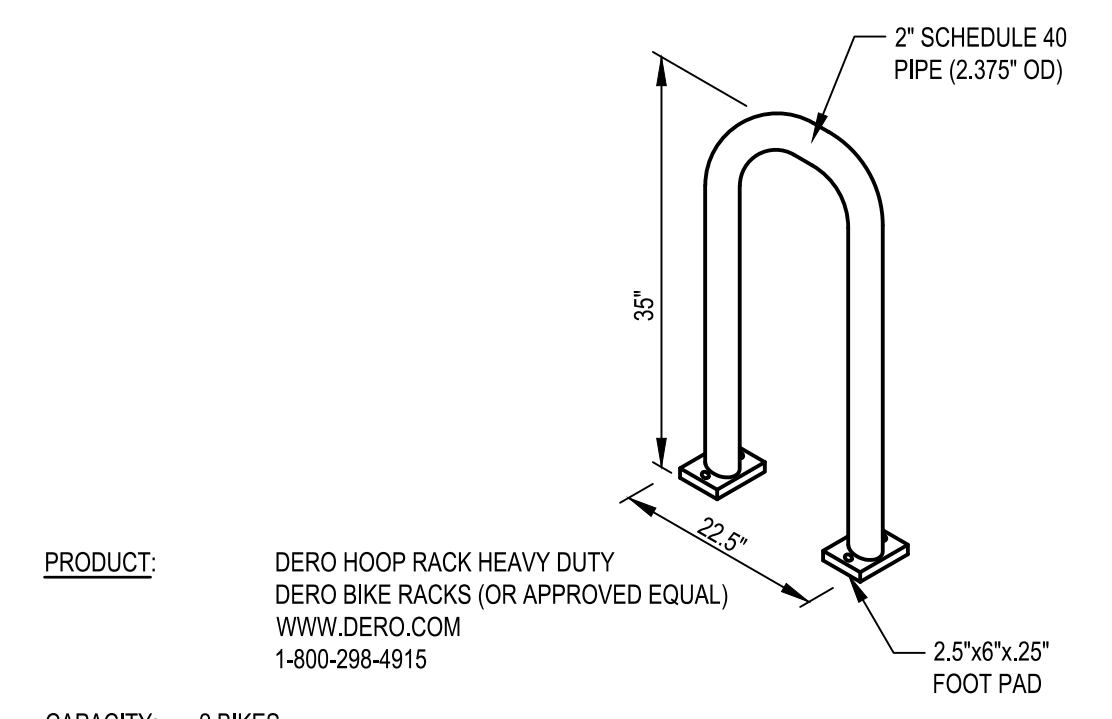
NOTE:

SEE GRADING PLAN FOR ANY VARIATIONS TO EXPOSED CURB HEIGHT.

C5 CURB AT DRIVE THRU
N.T.S.



B5 DO NOT ENTER SIGN
N.T.S.



PRODUCT:

DERO HOOP RACK HEAVY DUTY DERO BIKE RACKS (OR APPROVED EQUAL) WWW.DERO.COM 1-800-298-4915

CAPACITY:

2 BIKES

MATERIALS:

2" SCHEDULE 40 PIPE (2.375" OD)

CONTRACTOR SHALL COORDINATE FINISH AND PREFERRED INSTALLATION METHOD WITH CONSTRUCTION MANAGER.

A5 BIKE RACK DETAIL
N.T.S.

NO.	REVISION	DESCRIPTION
1	01/01/19	CITY AND COUNTY COMMENTS
2	01/20/22	TOWNSHIP/MDOT COMMENTS
3	03/11/22	ISSUED FOR BID
4		FOR CONSTRUCTION
5		
6		
7		
8		
9		
10		

CONTRACT DATE: 01/01/19
BUILDING TYPE: ENDEAVOR 2.0
PLAN VERSION: MARCH 2022
BRAND DESIGNER: DAN DICKSON
SITE NUMBER: 315089
STORE NUMBER: 40164

TACO BELL
18708 TELEGRAPH RD
BROWNSTOWN, MI 48183

TACO BELL
ENDEAVOR 2.0

DETAILS
C-501

This document has not been reviewed by the stamping party. Therefore, the stamping party makes no representation(s) with respect to its contents, and shall not be liable for such. Any reliance on this stamp shall be at the relying party(ies)'s own risk and hereby waives any and all claim(s) related to the existence of the stamp or otherwise.

4 INCH CONCRETE SIDEWALK
Walk Width as called for on Plans
2% Toward Street (Typ.)
4" Sand Base or as directed by the Wayne County Engineer.
1" Transverse Expansion Joint
Drive Width
Plane of Weakness Joint
Typical Both Sides
4" Concrete Sidewalk
Thickness 8" for Commercial Drive Thickness 6" for Residential Drive
6" 21AA Aggregate Base or as directed by the Wayne County Engineer.

THICKENED CONCRETE SIDEWALK
The Approach Walks shall be constructed within the same Project after the road is paved.
50' Maximum Expansion Joint Spacing
1/2" Expansion Joint
4" Concrete Sidewalk 5" TYP.
Back of Curb
1" Expansion Joint and Curb Drop for Ramps

FRONTAGE SIDEWALKS—EXISTING R.O.W.
Notes:
Sidewalk transverse slope may vary from 0% to 4% to meet site conditions. When transverse slope is less than 2%, longitudinal drainage must be provided.
Sidewalk Ramps shall conform to the current ADA requirements. See MDOT R-28 series or as approved by the Wayne County Engineer.

APPROACH SIDEWALKS—NEW SUBDIVISIONS
Sidewalk intersections shall be cast monolithically with joint lines placed as near to perpendicular as possible with sidewalks edge, to avoid narrow or pointed pieces of concrete.
1/2" Expansion Joint
Where permanent structure is located in sidewalks, place 1/2" expansion material around structure and adjust joint pattern to intersect structure as shown.

TYPICAL SIDEWALK JOINT LAYOUTS

Work this Sheet with the General Notes on RS-1

REVISION DATE: 08/01/07	WAYNE COUNTY DEPARTMENT OF PUBLIC SERVICES ENGINEERING DIVISION/PERMIT OFFICE PERMIT STANDARDS	SCALE NOT TO SCALE
DIRECTOR OF ENGINEERING	CONCRETE SIDEWALK	RS-5
DIVISION PERMIT ENGINEER		SHEET 1 OF 1

NOTE: THIS IS NOT A LEGAL ENGINEERING DOCUMENT BUT AN ELECTRONIC DUPLICATE. THE ORIGINAL SIGNED COPY FOR PUBLICATION IS KEPT ON FILE AT THE WAYNE COUNTY ENGINEERING OFFICES.

- All materials and workmanship shall be in accordance with Wayne County Specifications which are defined as the current Michigan Department of Transportation (MDOT) Standard Specifications for Construction as modified by Wayne County Special Provisions.
- Paving Standard Plan Details may be shown with wire fabric reinforcement. Use of reinforcement shall be required as called for on the plans.
- A Transverse End of Pour Joint, Symbol (H), shall be constructed when there is an interruption in concrete paving for more than 1/2 hour. Transverse End of Pour Joint, Symbol (H), shall be constructed in accordance with current MDOT Standard Plan, R-39 series (Reinforced Concrete Pavement) and R-39P series (Plain Concrete Pavement). This note applies to both concrete base and finished concrete pavement.
- When it is anticipated that construction traffic will be using the pavement, endings will be protected by means of a temporary concrete header as shown on RS-4.
- The Expansion Joint Foam Rod shall be a solid round heat resistant Polyurethane foam capable of withstanding the temperature of the sealant. Density of the foam shall be 2-4 Lb/Cft.
- Wire Fabric Reinforcement shall lay flat when delivered to the work area. The use of spreader bars will be required for lifting bundles of reinforcement.
- Where the lane width of the pavement differs from wire fabric reinforcement standards, special sheets of the required width may be used or standard sheets may be cut to the required size or split sheets may be added to standard sheets to obtain the required size. Side laps shall not be less than the spacing of the longitudinal wires.
- The ends of the Wire Fabric Reinforcement sheets shall be fastened in at least two places at each lap to prevent horizontal and vertical displacement.
- When Concrete Pavement Repairs are longer than 20 feet, Transverse Plane of Weakness Joints (WT) shall be placed in-line with existing transverse joints, working cracks, or at 15 feet maximum and 6 feet minimum spacings.
- Existing concrete pavements with HMA surface requiring saw-cutting for removal shall have the saw cuts extend completely thru the concrete pavement. Sawed over-cuts occurring in adjacent slab, gutter or shoulder, which will remain in place, shall be sealed.

Work this Sheet with the General Notes on RS-1

REVISION DATE: 08/01/07	WAYNE COUNTY DEPARTMENT OF PUBLIC SERVICES ENGINEERING DIVISION/PERMIT OFFICE PERMIT STANDARDS	SCALE NOT TO SCALE
DIRECTOR OF ENGINEERING	GENERAL NOTES	RS-1
DIVISION PERMIT ENGINEER		SHEET 1 OF 1

NOTE: THIS IS NOT A LEGAL ENGINEERING DOCUMENT BUT AN ELECTRONIC DUPLICATE. THE ORIGINAL SIGNED COPY FOR PUBLICATION IS KEPT ON FILE AT THE WAYNE COUNTY ENGINEERING OFFICES.

PAVEMENT REMOVAL AND REPAIR (PATCHING)
CLASS "A" ROAD UNDER 20 YEARS OLD.

EXISTING CONCRETE
REPAIR LENGTH L*
EXISTING CONCRETE
TRANSVERSE CONTRACTION JOINT (C) DRILLED IN METHOD
TRANSVERSE CONTRACTION JOINT (E) OR (C) DRILLED IN METHOD
EPOXY ANCHORED LANE TIE
EXISTING JOINT (E) OR (C)
ORIGINAL JOINT (E) OR (C) LOCATION
LANE WIDTH
L* = 15.0 FT FOR PRIMARY AND LOCAL ROADS

TRANSVERSE JOINT (C) DRILLED METHOD
** LONGITUDINAL JOINT UNITED
* TRANSVERSE JOINT (E) OR (C) DRILLED METHOD
L/2
REPAIR LENGTH L*
LANE WIDTH

Joint (C) shall be installed at this location, unless the original joint was an expansion, then a joint (E) should be installed.
When constructing a longitudinal unjointed joint, apply a heavy coat of white curing compound along the existing pavement's vertical edge to provide a bond breaker. If vertical edge is not smooth from saw cutting, additional surface grinding may be required.

Pavement removal shall be in accordance with 2003 MDOT Standard Specifications for Construction. This detail is for finished concrete pavement repairs on class "A" roads and industrial subdivisions. Pavement thickness shall match the existing pavement thickness with a minimum section of (9) nine inches of non-reinforced concrete. See Wayne County permit standard RS-2 for pavement joint details. If concrete pavement has been resurfaced with HMA, see standard detail PR-2.

For finished concrete pavement on class "A" County roads and industrial subdivisions less than 20 years old, minimum patch size shall be full width of lane (including the curb and gutter) with a minimum length of 15.0 feet with no less than 6 feet remaining to any pavement joints, cracks, or edge of pavement.

Saw cut must extend completely through the pavement section. Any over-cuts except at the outside corners of the pavement patch area will be required to be removed (this will increase the size of the patch).

All sawed over-cuts located at the outside corners of the patch location shall be cleaned and sealed with hot poured rubber asphalt.

Work this Sheet with the General Notes on RS-1

REVISION DATE: 08/01/07	WAYNE COUNTY DEPARTMENT OF PUBLIC SERVICES ENGINEERING DIVISION/PERMIT OFFICE PERMIT STANDARDS	SCALE NOT TO SCALE
DIRECTOR OF ENGINEERING	PAVEMENT REMOVAL AND REPAIR (PATCHING)	PR-1
DIVISION PERMIT ENGINEER		SHEET 1 OF 2

NOTE: THIS IS NOT A LEGAL ENGINEERING DOCUMENT BUT AN ELECTRONIC DUPLICATE. THE ORIGINAL SIGNED COPY FOR PUBLICATION IS KEPT ON FILE AT THE WAYNE COUNTY ENGINEERING OFFICES.

TEMPORARY ASPHALT ACCESS DRIVE

EXISTING GROUND
SEE DETAIL "A" FOR CURB CUT (SHEET D-2)
GEOTEXTILE FABRIC
MINIMUM 2" THICK OF H.M.A. TOP.
2"-3" COURSE AGGREGATE OR CRUSHED CONCRETE FOR CONSTRUCTION PAD, MINIMUM 6" THICK.
50' MIN.
R.O.W.
15' (TYP.)
EXISTING CURB

NOTES:
1. WRITTEN PERMISSION SHALL BE SECURED TO CONSTRUCT DRIVE ON PRIVATE PROPERTY.
2. UPON PROJECT COMPLETION REMOVE TEMPORARY APPROACH, RESTORE THE RIGHT-OF-WAY TO ITS ORIGINAL CONDITIONS, AND RECONSTRUCT CURB AS PER CURB DETAIL "C" OR PLACE THE PERMANENT APPROACH WITHIN THE SAME LOCATION AND RECONSTRUCT CURB DROP AS PER CURB DETAIL "B".

GENERAL NOTES:
1. STONE SIZE SHOULD BE 2" MIN. RECLAIMED OR RECYCLED OF AN EQUIVALENT DIAMETER MAY ALSO BE USED.
2. WHERE ACCESS TO THE CONSTRUCTION SITE IS LIMITED IN LENGTH (SUCH AS IN URBAN AREAS), AS DIRECTED BY THE COUNTY ENGINEER, DAILY STREET SWEEPING MAY BE NEEDED TO REMOVE SOIL THAT IS TRACKED ONTO THE ROADS.
3. PROVIDE CULVERT AS SHOWN ON THE PLANS WHEN DITCH IS EXISTING. MIN. 12" DIA. RCP OR CMP.

CONSTRUCTION CONSIDERATIONS:
1. SAW-CUT HORIZONTALLY THE EXISTING CONCRETE CURB AS PER WAYNE COUNTY DETAIL "A" AND PREPARE THE EDGE OF PAVEMENT.
2. REMOVE AND DISPOSE OF UNWANTED TREES, OTHER VEGETATION, OR FOREIGN OBJECTS AND DEBRIS FROM THE AREA.
3. APPLY THE STONE IN LAYERS AND COMPACT IT AS DIRECTED BY THE WAYNE COUNTY ENGINEER.
4. PLACE H.M.A. TOP AND COMPACT IT TO ITS 97% OF THE UNIT WEIGHT OF THE MATERIALS OR AS DIRECTED BY THE WAYNE COUNTY ENGINEER.

AFTER CONSTRUCTION:
IF MUD AND SOIL ATTACHED TO TRUCK TIRES DOES NOT FALL OFF ONTO THE ASPHALT, THEN TRUCK TIRES SHOULD BE WASHED ON AN AREA STABILIZED WITH CRUSHED STONE. WASH RACKS MAY BE USED.

MAINTENANCE:
PROPER MAINTENANCE MAY INCLUDE ADDITIONAL LAYERS OF STONE OR H.M.A. WHEN THE ORIGINAL LAYERS BECOMES COVERED WITH MUD OR BECOMES COMPLETELY OR PARTIALLY DETEIORATED DUE TO MOVEMENT OF HEAVY TRUCKS AND VEHICLES. AFTER EACH STORM EVENT, INSPECT THE ROAD FOR DEBRIS AND ALL SEDIMENT DROPPED OR ERODED ONTO PUBLIC R.O.W. SHOULD BE REMOVED IMMEDIATELY BY SWEEPING EFFECTIVELY.

Work this Sheet with the General Notes on RS-1

REVISION DATE: 08/01/07	WAYNE COUNTY DEPARTMENT OF PUBLIC SERVICES ENGINEERING DIVISION/PERMIT OFFICE PERMIT STANDARDS	SCALE NOT TO SCALE
DIRECTOR OF ENGINEERING	TEMPORARY ASPHALT ACCESS DRIVE	CD-1
DIVISION PERMIT ENGINEER		SHEET 1 OF 2

NOTE: THIS IS NOT A LEGAL ENGINEERING DOCUMENT BUT AN ELECTRONIC DUPLICATE. THE ORIGINAL SIGNED COPY FOR PUBLICATION IS KEPT ON FILE AT THE WAYNE COUNTY ENGINEERING OFFICES.

COMMERCIAL DRIVE APPROACH

RIGHT-OF-WAY LINE OR FACE OF WALK, AS SHOWN ON PLANS.
16" MIN., 20" MAX. ONE WAY TRAFFIC
25" MIN., 40" MAX. TWO WAY TRAFFIC
OR AS SHOWN ON THE PLANS
10' R MINIMUM
20' R MINIMUM
BACK OF CURB
CURB DROP
GUTTER LINE
WIDTH AS SHOWN ON PLANS
* 4" FOR ASPHALT DRIVE PAVEMENT
CURB
1"
CURB DROP
GUTTER LINE
CURB

SECTION A-A
NOT TO SCALE

NOTES:
CONSTRUCT THE DRIVE APPROACH WITH 8" NON-REINFORCED CONCRETE ON 6" OF 21AA AGGREGATE BASE COURSE COMPACTED IN PLACE (CIP) OR 6" HMA LEVELING ON 9" OF 21AA AGGREGATE BASE COURSE (OP). CURBS SHALL BE CONSTRUCTED WITH HEIGHT VARYING FROM 6" AT BACK OF CURB TO 0" HEIGHT AT FACE OF SIDEWALK OR RIGHT-OF-WAY LINE.
AT ALL CONCRETE DRIVES, PLACE A 1" EXPANSION JOINT AT BACK OF CURB AND 1/2" EXPANSION JOINT AT FACE OF SIDEWALK OR RIGHT-OF-WAY LINE. MAINTAIN NORMAL SIDEWALK GRADE ACROSS DRIVE, 2% SLOPE UP FROM FACE OF SIDEWALK.
INBOUND OR OUTBOUND RADIUS SHALL BE REDUCED TO 5' FOR ONE-WAY TRAFFIC DRIVE APPROACH.
DRIVE APPROACH SHALL NOT ENCRUCH ACROSS PROPERTY LINE EXTENDED WITHOUT WRITTEN APPROVAL FROM THE ADJOINING PROPERTY OWNER.

Work this Sheet with the General Notes on RS-1 AND D-6 SHEET 2-2.

REVISION DATE: 08/01/07	WAYNE COUNTY DEPARTMENT OF PUBLIC SERVICES ENGINEERING DIVISION/PERMIT OFFICE PERMIT STANDARDS	SCALE NOT TO SCALE
DIRECTOR OF ENGINEERING	COMMERCIAL DRIVE APPROACH	D-6
DIVISION PERMIT ENGINEER		SHEET 1 OF 2

NOTE: THIS IS NOT A LEGAL ENGINEERING DOCUMENT BUT AN ELECTRONIC DUPLICATE. THE ORIGINAL SIGNED COPY FOR PUBLICATION IS KEPT ON FILE AT THE WAYNE COUNTY ENGINEERING OFFICES.

CURB RETURN JOINING EXISTING PAVEMENT

1" Expansion Joint
Saw Cut Line
Gutter Line
12"
Curb Drop
Conc. Curb
Existing Curb
1" Expansion Joint
Proposed Drive Pavement
Limits of section A-A
* 4" for HMA Drive Pavement. No Expansion Joint Required.

Match Existing Curb Width
1 3/4" Batter
1/4" R
Existing Road Pavement
Gutter Line
16"
2" R
1/2 T
Vertical Full Depth Saw Cut Line
Epoxy Coated #5 Deformed Bar, 18" Long, Spacing As Per RS-2.
Same Thickness as Existing Road Pavement
7" Min.

Section "A - A"

Work this Sheet with the General Notes on RS-1.

REVISION DATE: 08/01/07	WAYNE COUNTY DEPARTMENT OF PUBLIC SERVICES ENGINEERING DIVISION/PERMIT OFFICE PERMIT STANDARDS	SCALE NOT TO SCALE
DIRECTOR OF ENGINEERING	COMMERCIAL DRIVE APPROACH	D-6
DIVISION PERMIT ENGINEER		SHEET 2 OF 2

NOTE: THIS IS NOT A LEGAL ENGINEERING DOCUMENT BUT AN ELECTRONIC DUPLICATE. THE ORIGINAL SIGNED COPY FOR PUBLICATION IS KEPT ON FILE AT THE WAYNE COUNTY ENGINEERING OFFICES.

FOR REFERENCE ONLY

- ▲ CITY AND COUNTY COMMENTS
- ▲ TOWNSHIP/MDOT COMMENTS
- ▲ 01.20.22 ISSUED FOR BID
- ▲ 03.11.22 ISSUED FOR CONSTRUCTION
- ▲
- ▲
- ▲
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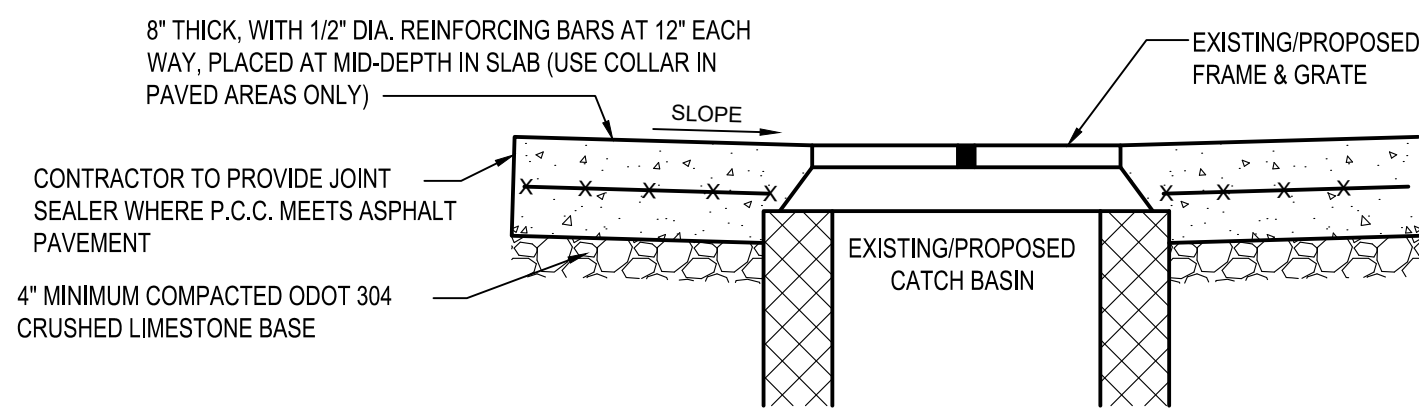
CONTRACT DATE: 01/01/19
BUILDING TYPE: ENDEAVOR 2.0
PLAN VERSION: MARCH 2022
BRAND DESIGNER: DAN DICKSON
SITE NUMBER: 315089
STORE NUMBER: 40164

TACO BELL
18708 TELEGRAPH RD
BROWNSTOWN, MI 48183

TACO BELL
ENDEAVOR 2.0

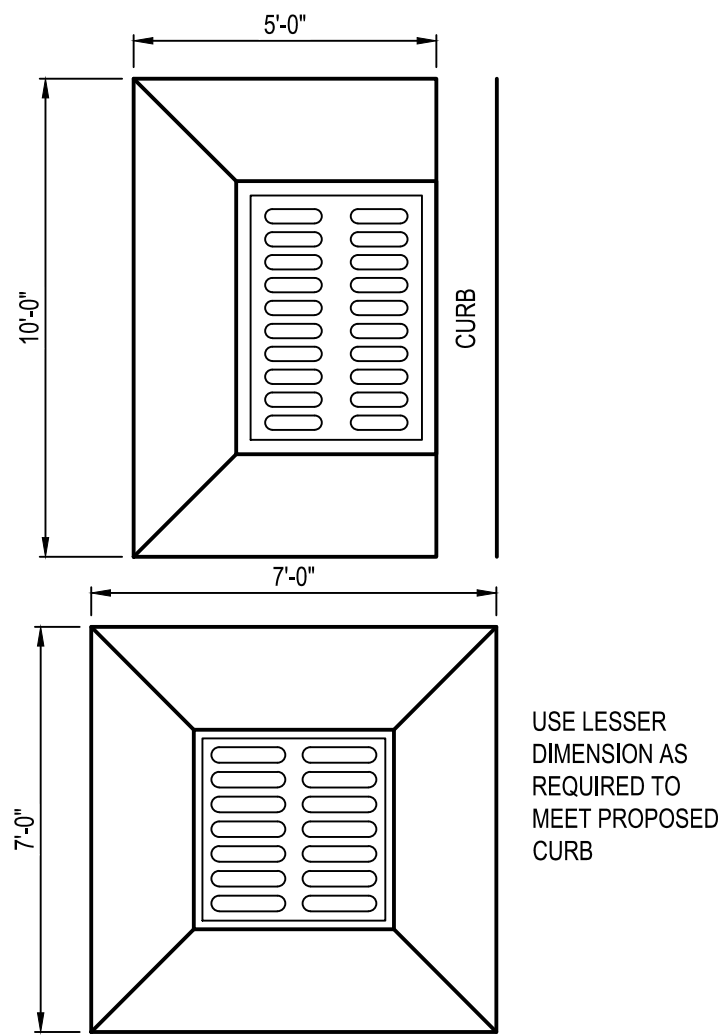
WAYNE COUNTY DETAILS

C-502

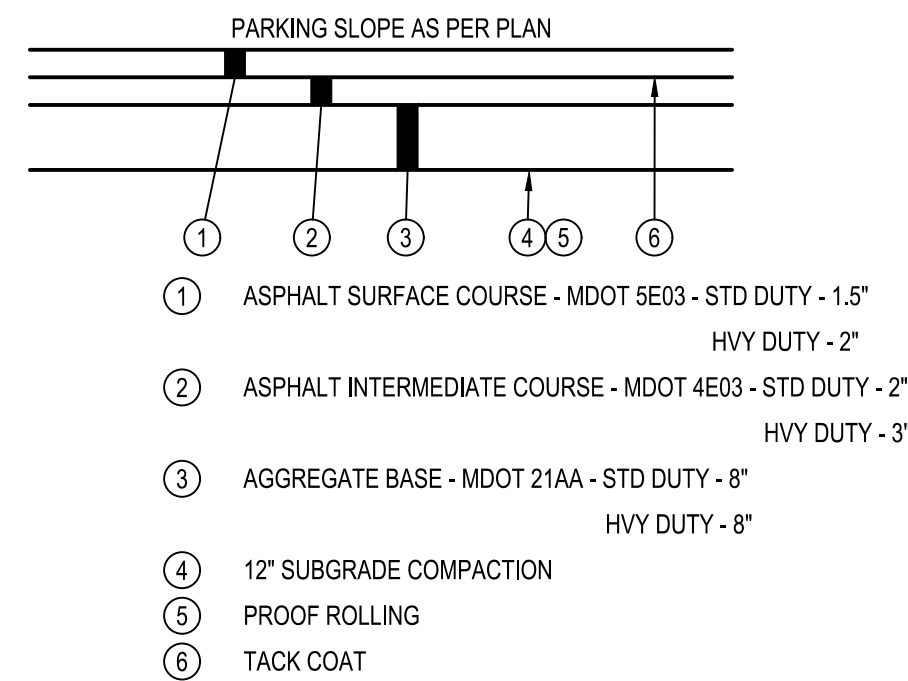


NOTES:
1. CONTRACTOR SHALL INSTALL 1/2\"/>

D1 CONCRETE COLLAR
N.T.S.

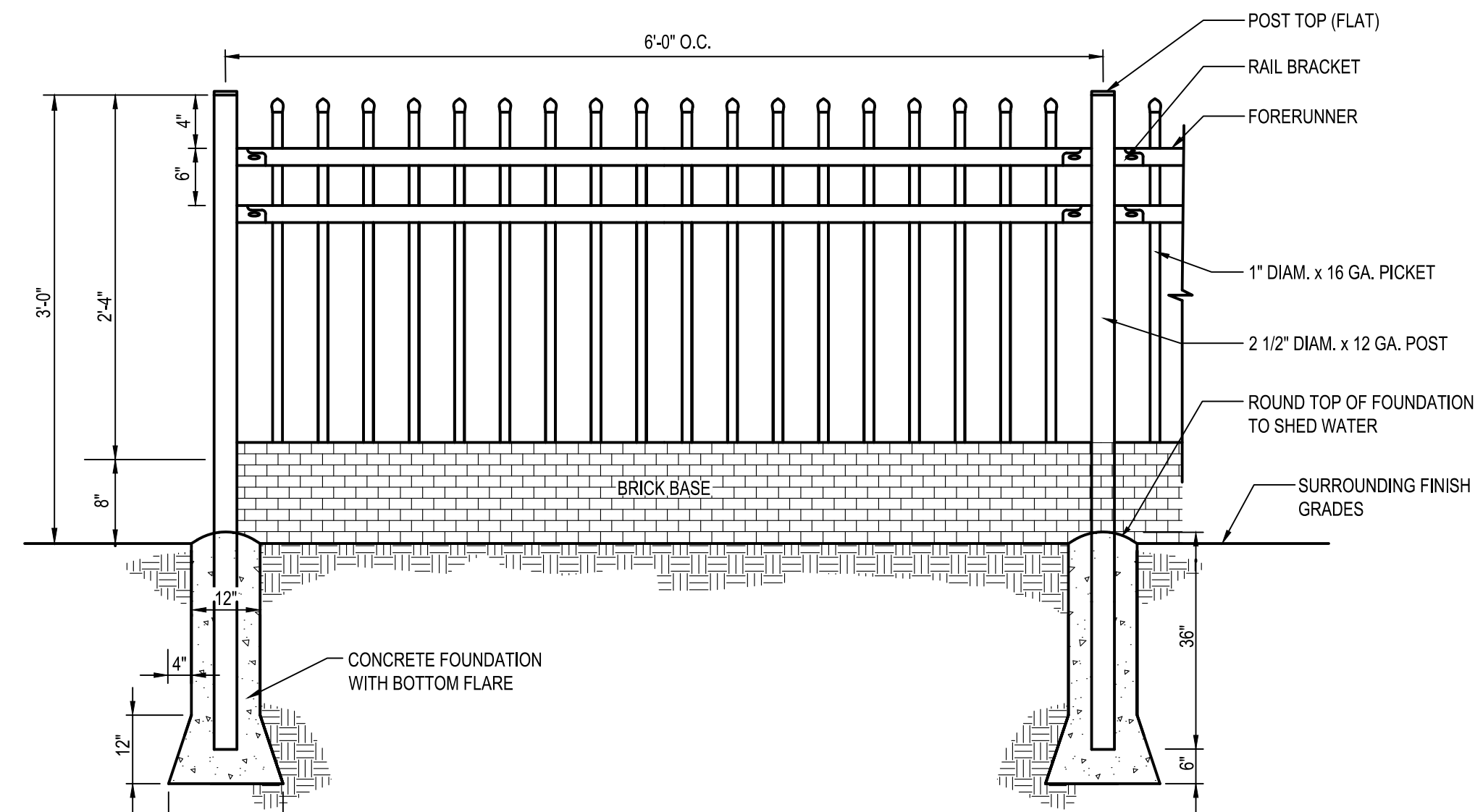


USE LESSER DIMENSION AS REQUIRED TO MEET PROPOSED CURB

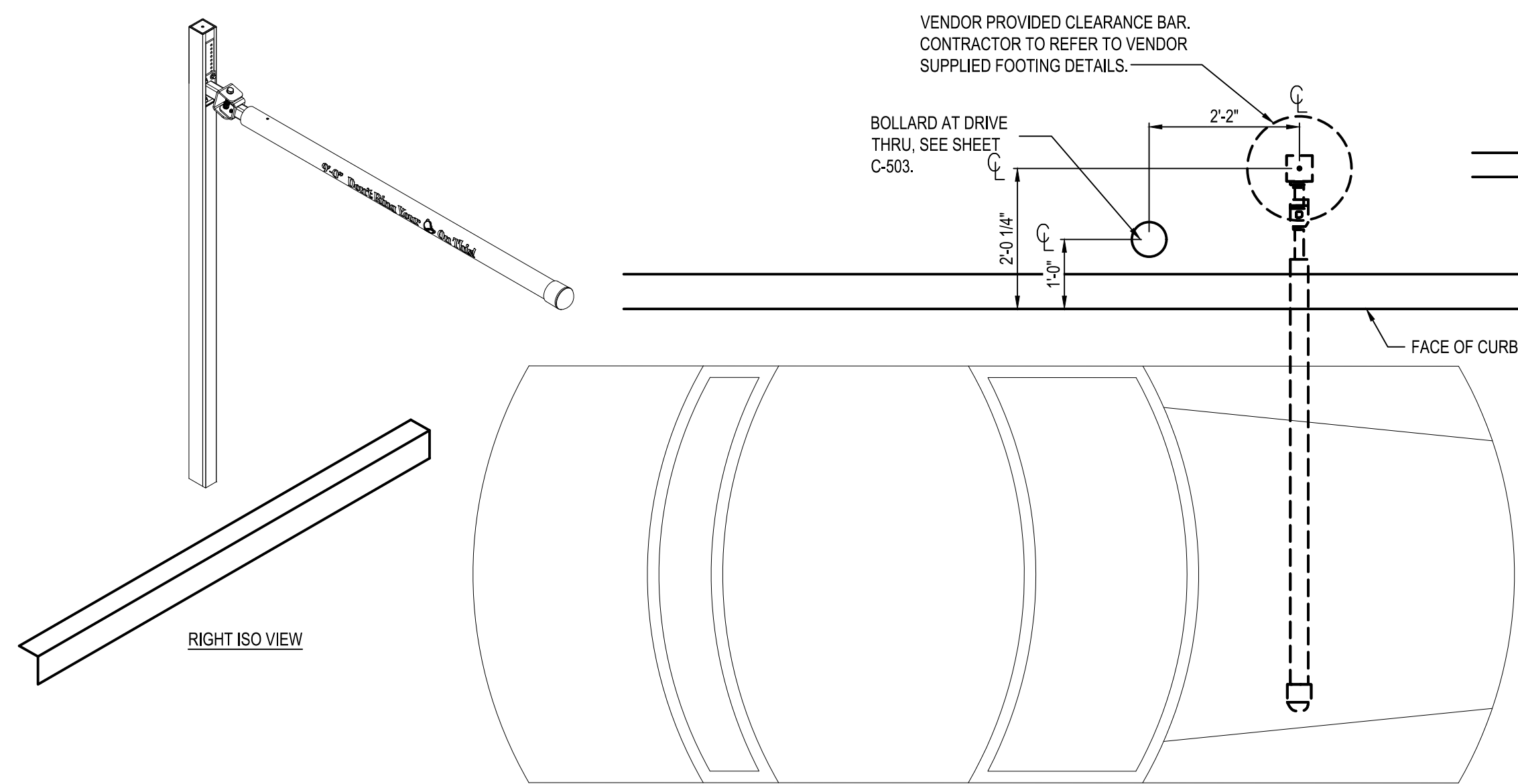


NOTES:
1. APPLY LIQUID ASPHALT AT ALL JOINTS BETWEEN CONCRETE AND ASPHALT AND WHERE PROPOSED ASPHALT MEETS EXISTING ASPHALT INCLUDING SAW CUT JOINTS.
2. NO RAP SHALL BE PERMITTED IN ASPHALT SURFACE COURSE.

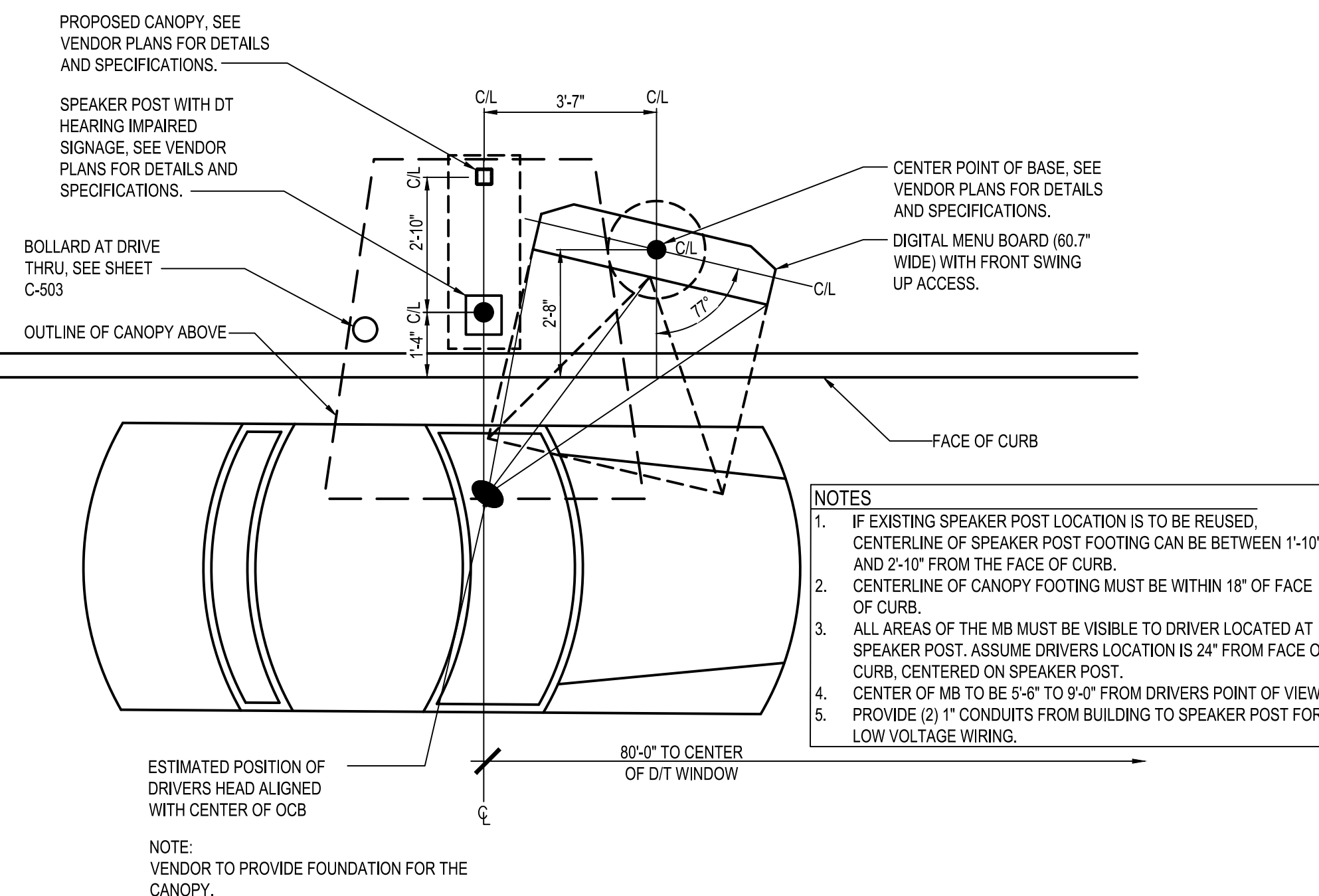
C2 TYPICAL PAVEMENT SECTION
N.T.S.



C3 3' HIGH DECORATIVE FENCE
N.T.S.

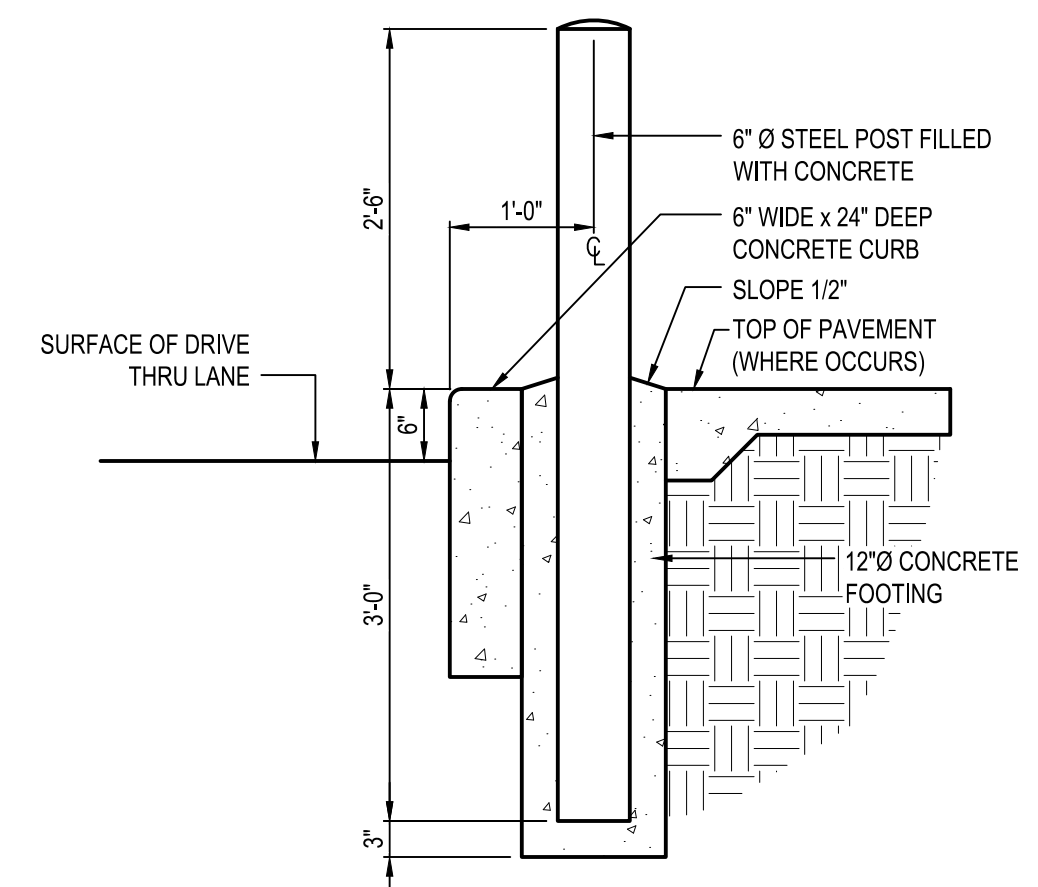


A1 PORTAL PLACEMENT DETAIL
N.T.S.



NOTES:
1. IF EXISTING SPEAKER POST LOCATION IS TO BE REUSED, CENTERLINE OF SPEAKER POST FOOTING CAN BE BETWEEN 1'-10\"/>

B1 ENLARGED MENU BOARD DETAIL @ STRAIGHT CURB
N.T.S.



B2 BOLLARD AT DRIVE THRU
N.T.S.

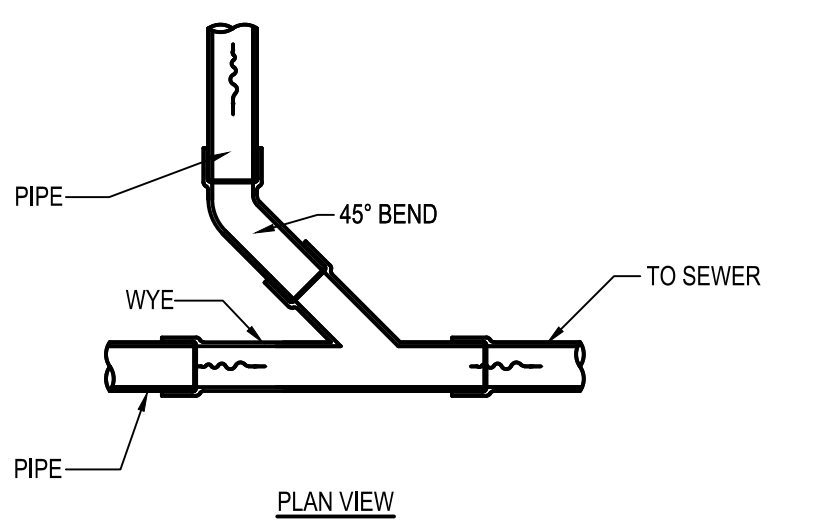
- ▲ CITY AND COUNTY COMMENTS
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CONTRACT DATE: 01/01/19
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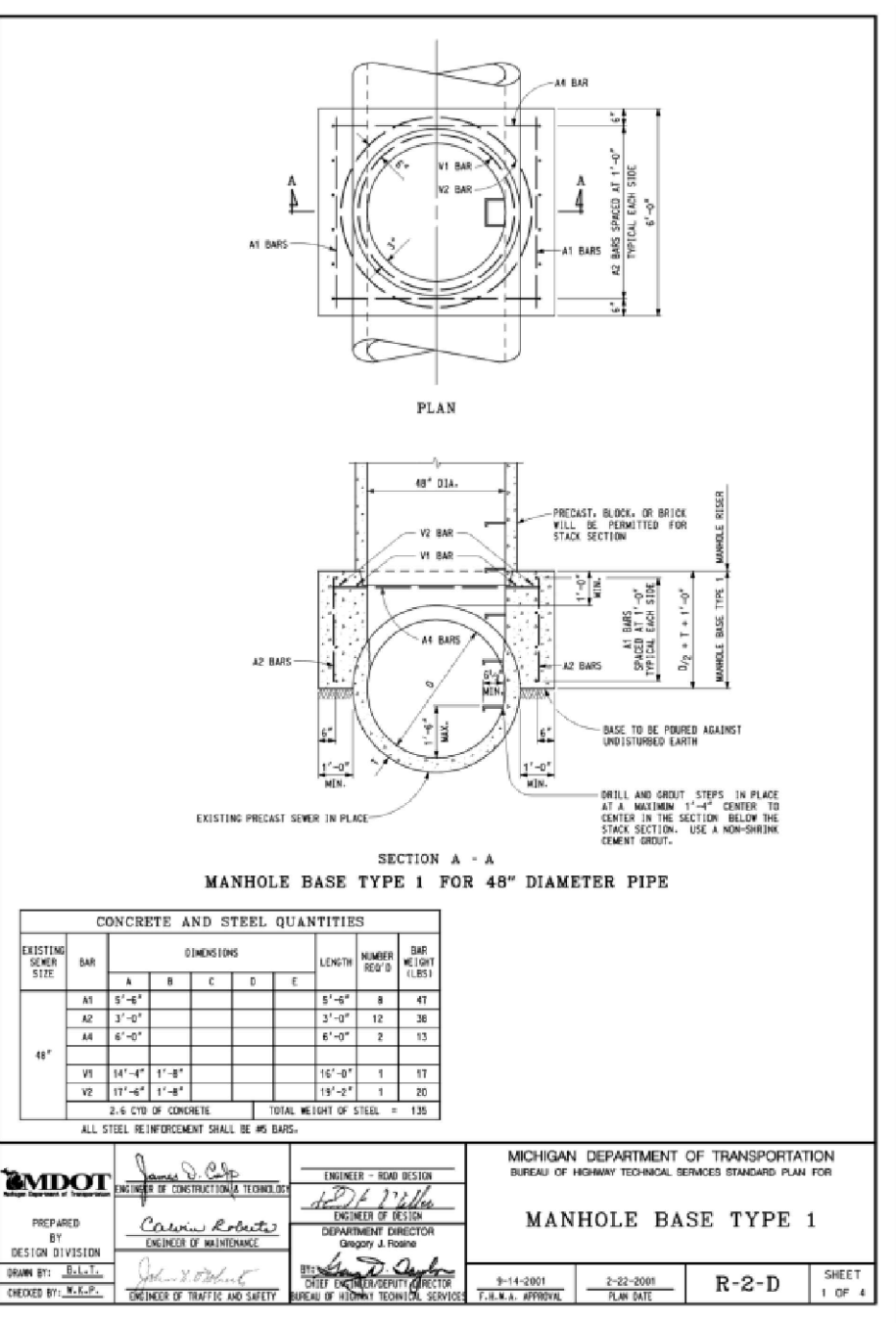
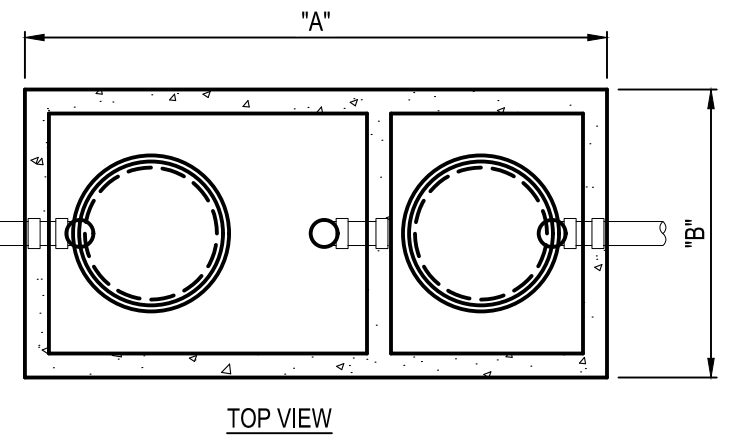
TACO BELL
18708 TELEGRAPH RD
BROWNSTOWN, MI 48183

TACO BELL
ENDEAVOR 2.0

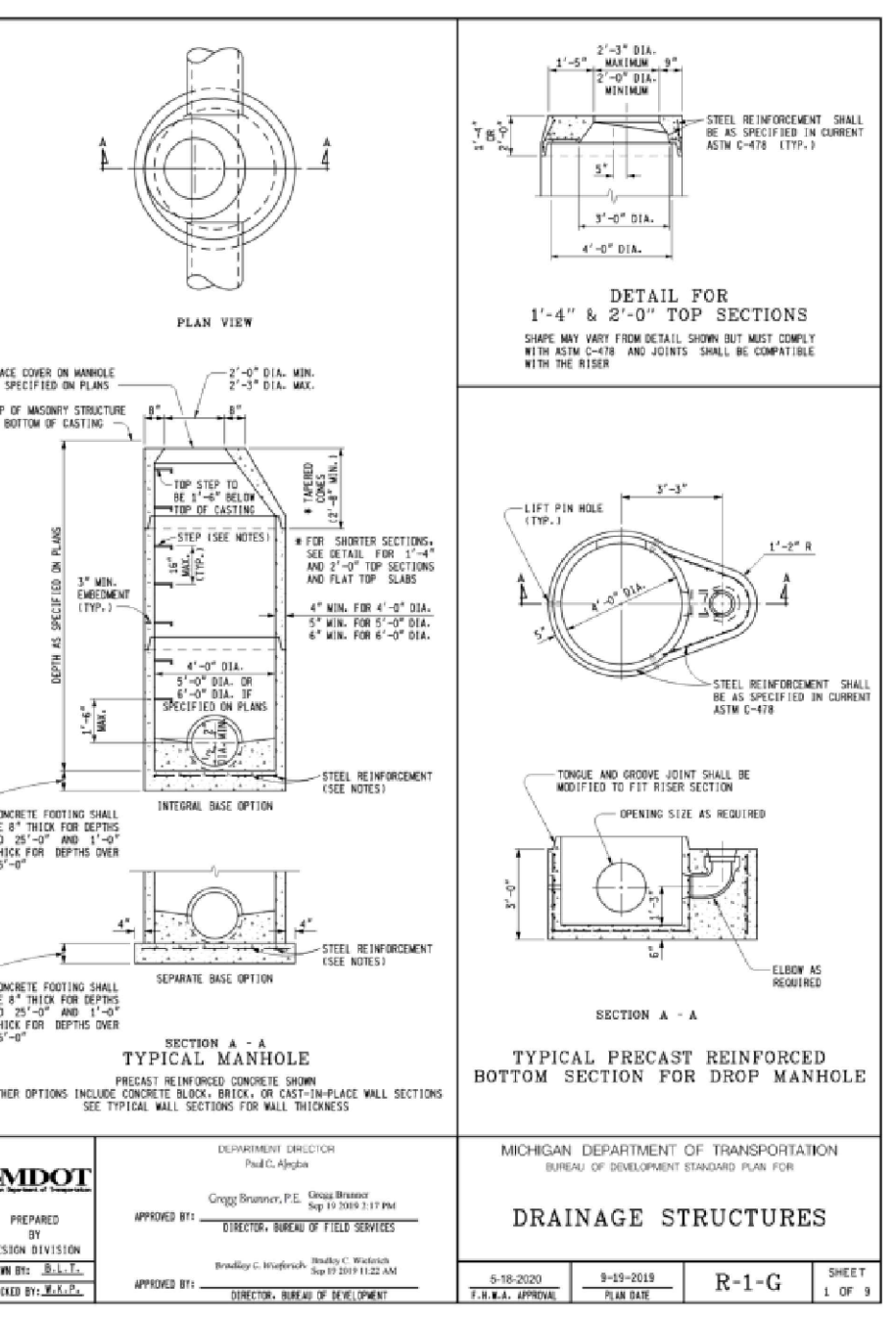
DETAILS
C-503



A4 WYE CONNECTION
N.T.S.



MANHOLE BASE TYPE 1
R-2-D

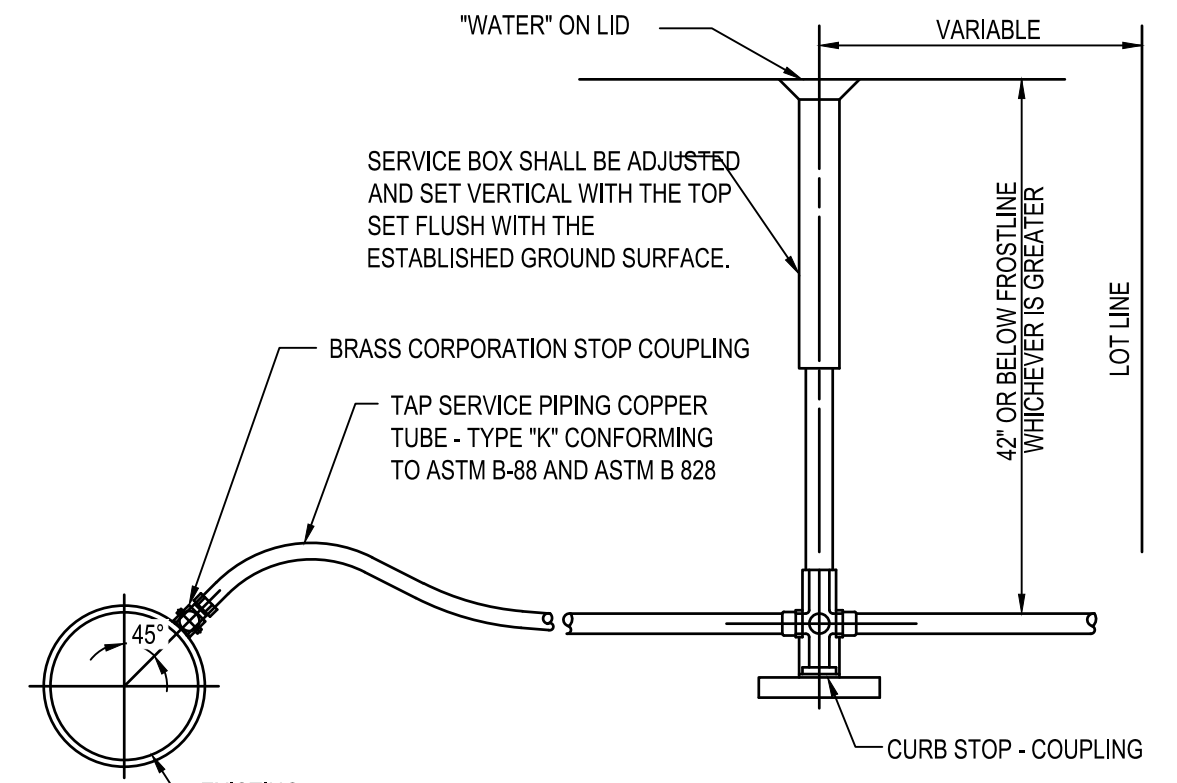


DRAINAGE STRUCTURES
R-1-G

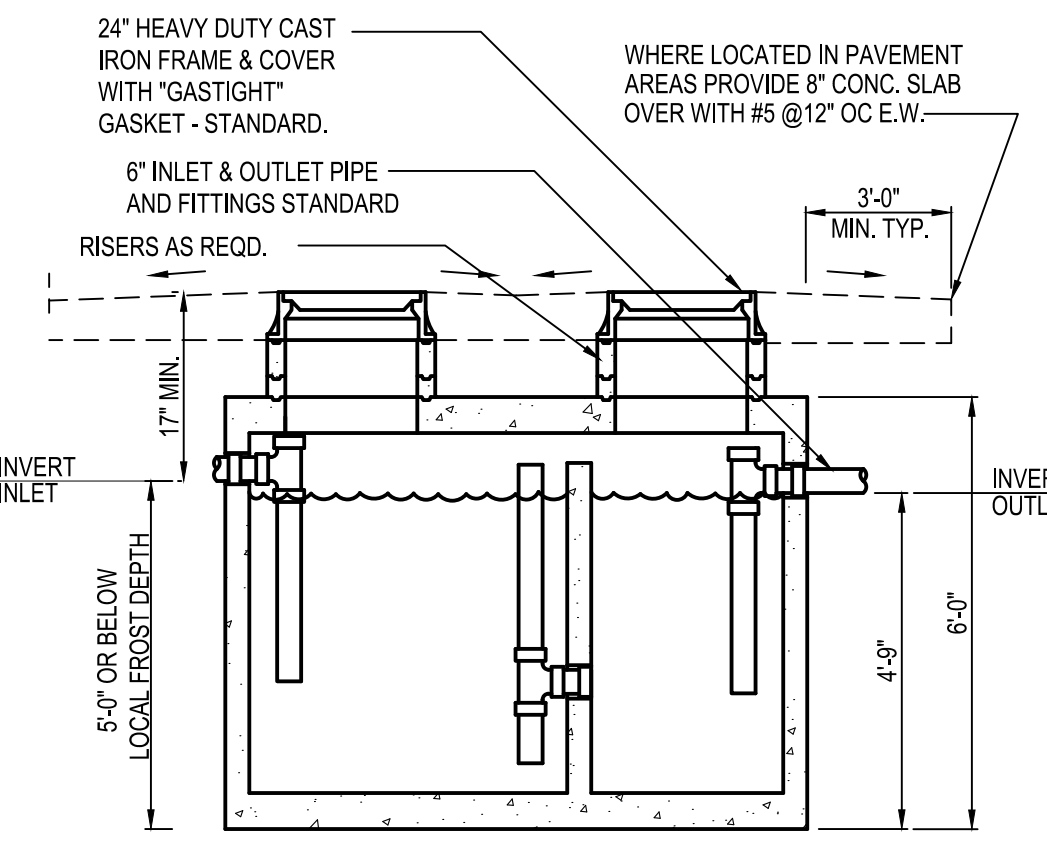
NOTE:
1. MDT MANHOLE DETAIL SHALL ONLY BE USED FOR PROPOSED STORM MANHOLE MH-1.
2. USE THE SEPARATE BASE OPTION.
3. ENSURE WATERTIGHT CONNECTION FOR BOTH EXISTING AND PROPOSED STORM LINES.

The MDT detail(s) have not been reviewed by the stamping party. Therefore, the stamping party makes no representation(s) with respect to its contents, and shall not be liable for such. Any reliance on this stamp shall be at the relying party(ies)'s own risk and hereby waives any and all claim(s) related to the existence of the stamp or otherwise.

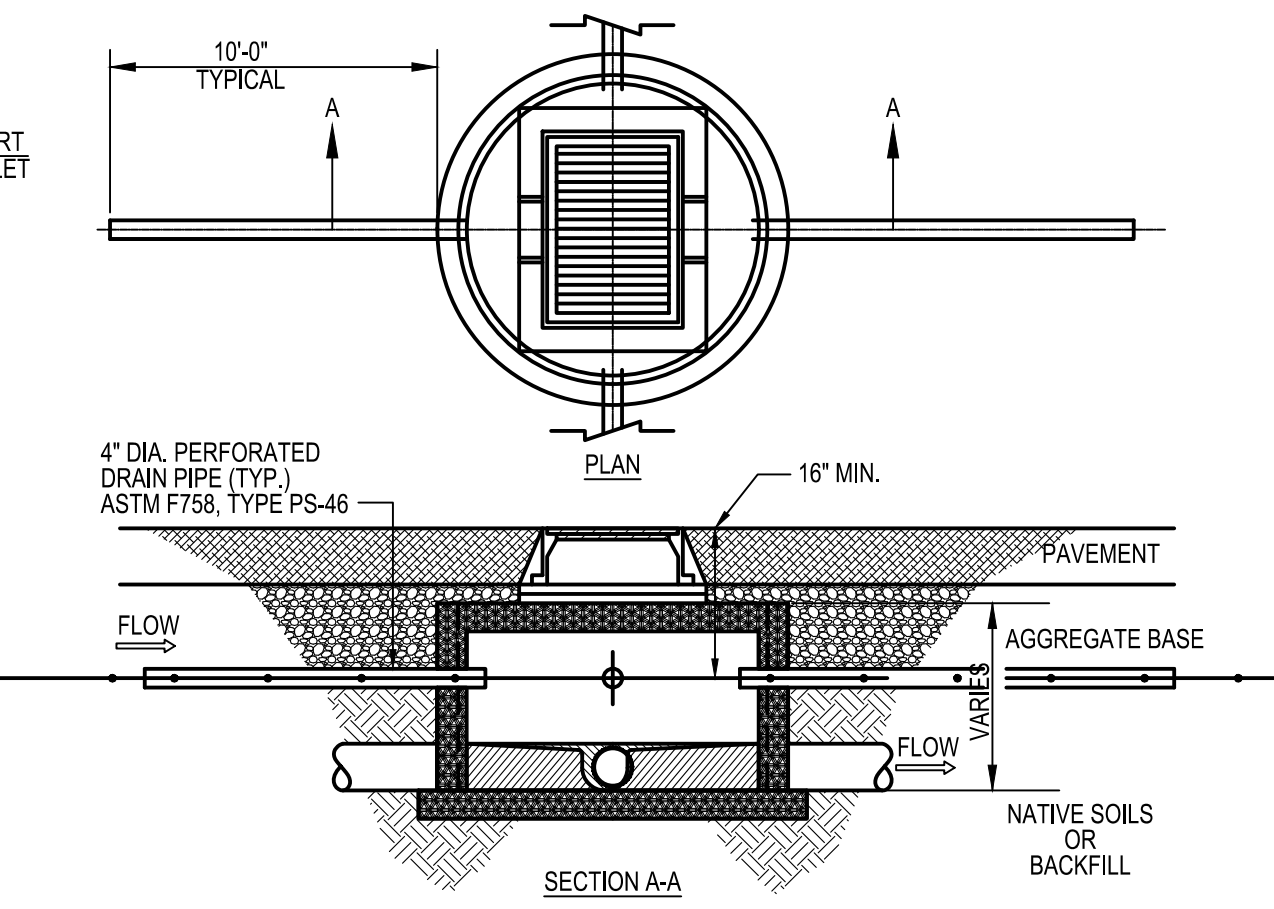
C1 MDT DOGHOUSE MANHOLE
N.T.S.



C5 WATER SERVICE TAP
N.T.S.



B1 EXTERIOR GREASE INTERCEPTOR
N.T.S.



C2 FINGER DRAIN DETAIL
N.T.S.

- KEYED NOTES**
- EXCAVATE WIDTH OF TRENCH AS NEEDED
 - PLACE SUITABLE SOIL OR GRANULAR BACKFILL IN 6" MAX. LIFTS. SUITABLE SOIL SHALL BE COMPACTED TO 90% MIN. (98% MIN. UNDER PAVEMENT) DRY DENSITY, PER ASTM D698. GRANULAR BACKFILL SHALL BE COMPACTED TO 75% (80% UNDER PAVEMENT) RELATIVE DENSITY, PER ASTM 4353. GRANULAR BACKFILL REQUIRED UNDER PAVEMENT.
 - PROPOSED STORM OR SANITARY SEWER
 - TOPSOIL, SEED, SOD, AND MULCHING OR PAVEMENT AS DETAILED ELSEWHERE.
 - NO. 57 OR NO. 67 AGGREGATE PLACED A MINIMUM OF 12" ABOVE THE TOP OF THE PIPE
 - NO. 57 OR NO. 67 AGGREGATE PLACED A MINIMUM OF 6" BELOW THE BOTTOM OF THE PIPE

B4 SEWER TRENCH
N.T.S.

- KEYED NOTES**
- TOPSOIL & SOD, OR PAVEMENT AS DETAILED ELSEWHERE.
 - CONTINUOUS METALLIC WARNING TAPE
 - CLEAN SELECT GRANULAR BACKFILL
 - 6" CLEAN SAND ENVELOPE
 - TRACKER WIRE
 - GAS SERVICE LINE PER COLUMBIA GAS STANDARDS

A3 GAS SERVICE TRENCH
N.T.S.

- KEYED NOTES**
- CONCRETE, MATCH PAVEMENT SPEC.
 - 6" (MIN.) AGGREGATE BASE
 - 6" DIA. CLEAN-OUT PIPE
 - CAP AND SEAL CONDUIT
 - THREADED CLEAN-OUT CAP
 - CAST-IRON MONUMENT BOX, E.I.W. 1565 OR APPROVED EQUAL
 - 45° BEND
 - WYE
 - SEWER

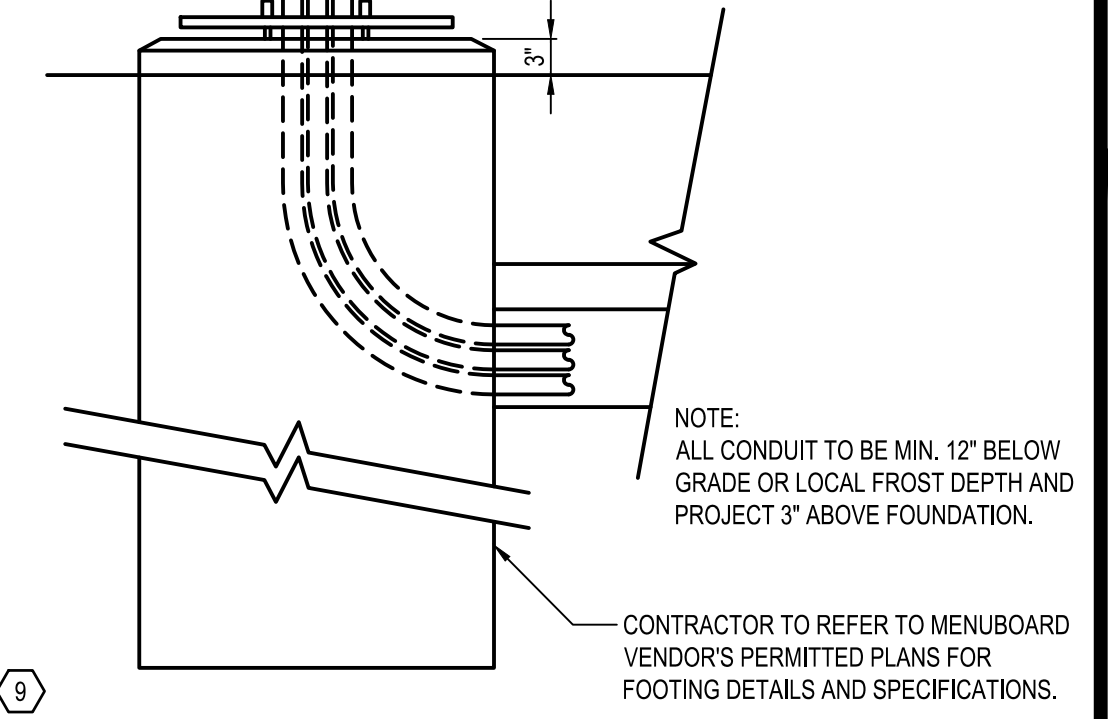
B5 CLEAN OUT (PAVEMENT AREA)
N.T.S.

- KEYED NOTES**
- TOPSOIL & SEED, SOD, OR PAVEMENT AS DETAILED ELSEWHERE.
 - CONTINUOUS METALLIC WARNING TAPE
 - CLEAN SELECT GRANULAR BACKFILL
 - 6" CLEAN SAND ENVELOPE
 - 4" PVC ELECTRICAL CONDUITS (SCHEDULE 40), QUANTITY AS REQUIRED
 - 4" PVC TELEPHONE CONDUIT (SCHEDULE 40), QUANTITY AS REQUIRED

C4 ELECTRICAL & COMMUNICATIONS SERVICE TRENCH
N.T.S.

CONDUIT SCHEDULE

DEVICE	POWER	DATA
DIRECTIONAL	(1) 3/4"	-
SPEAKER POST	(1) 1"	(1) 1"
MENU BOARD	(1) 1"	(2) 1"
PREVIEW BOARD (OPTIONAL)	(1) 1"	(2) 1"



D2 FOUNDATION CONDUIT DETAIL
N.T.S.

- KEYED NOTES**
- 6" DIA. CLEAN-OUT PIPE
 - CAP AND SEAL CONDUIT
 - THREADED CLEAN-OUT CAP
 - 45° BEND
 - WYE
 - SEWER

A5 CLEAN OUT (LAWN AREA)
N.T.S.

CITY AND COUNTY COMMENTS
TOWNSHIP/MDOT COMMENTS
01.20.22 ISSUED FOR BID
03.11.22 ISSUED FOR CONSTRUCTION

CONTRACT DATE: 01/01/19
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BRAND DESIGNER: DAN DICKSON
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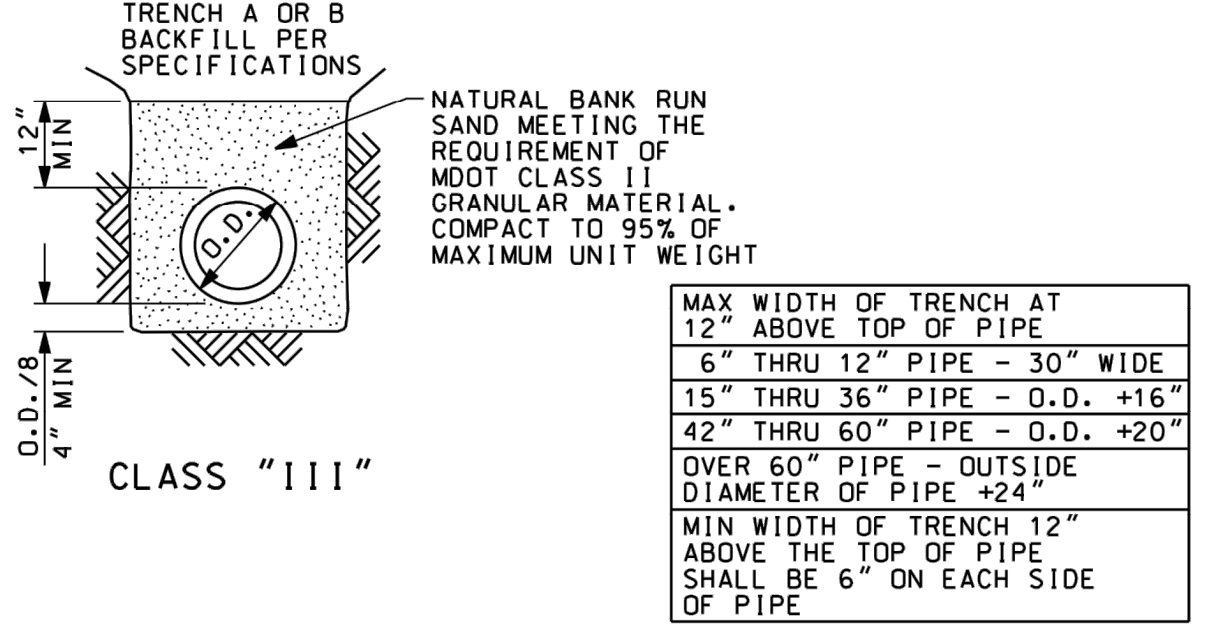
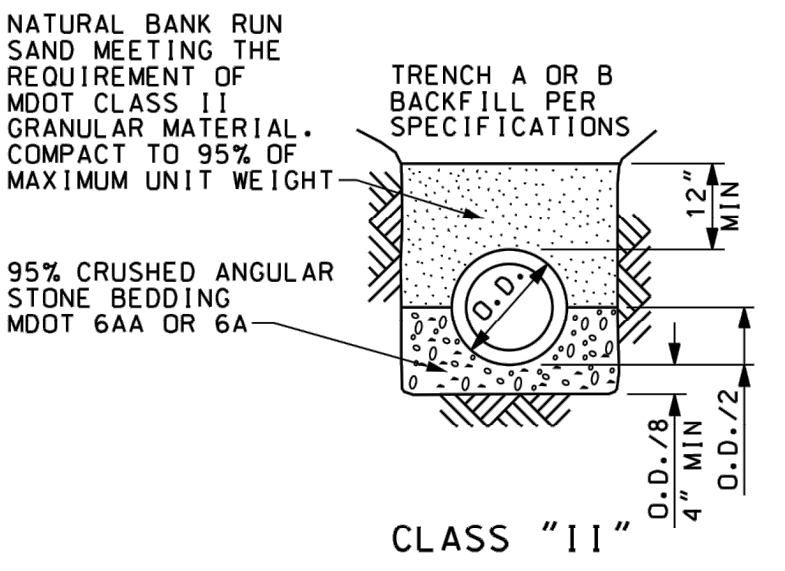
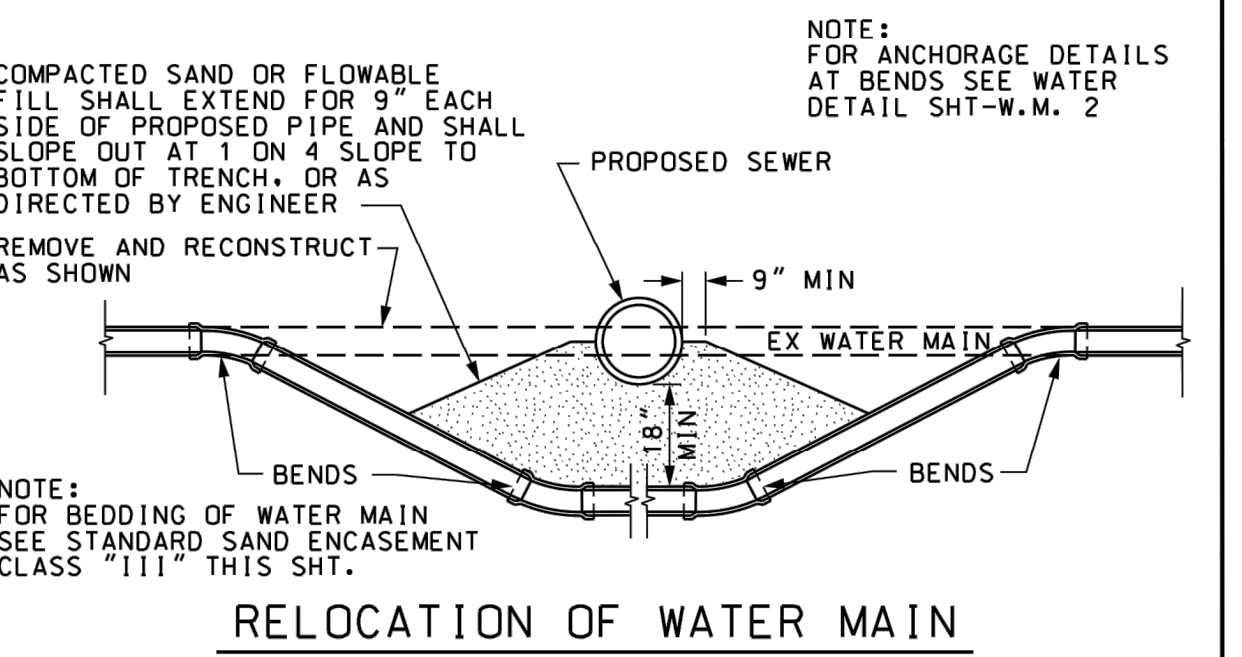
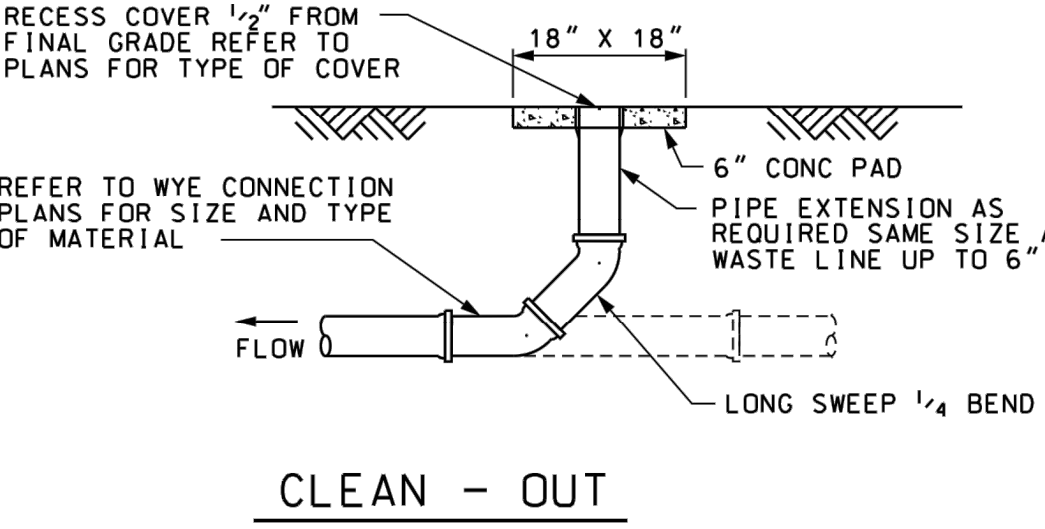
ENDEAVOR 2.0

DETAILS

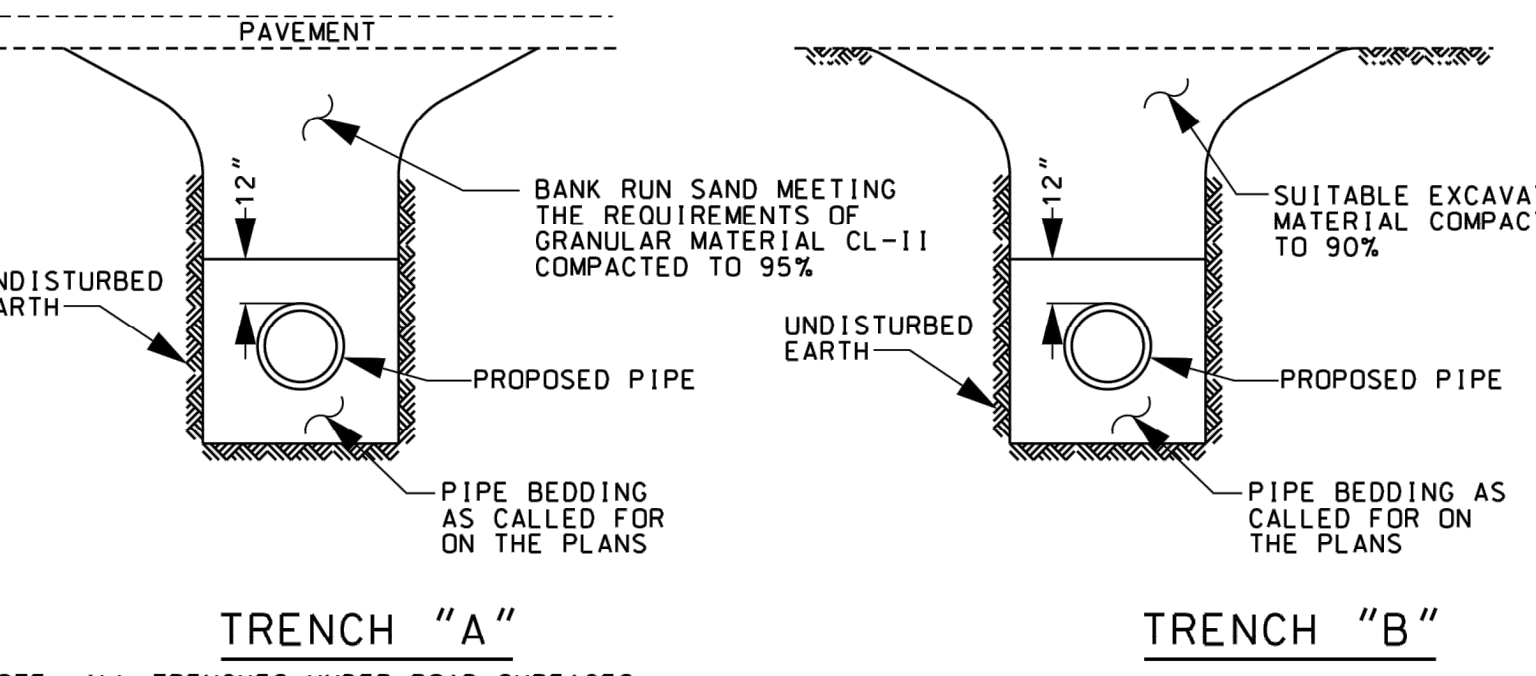
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GENERAL NOTES

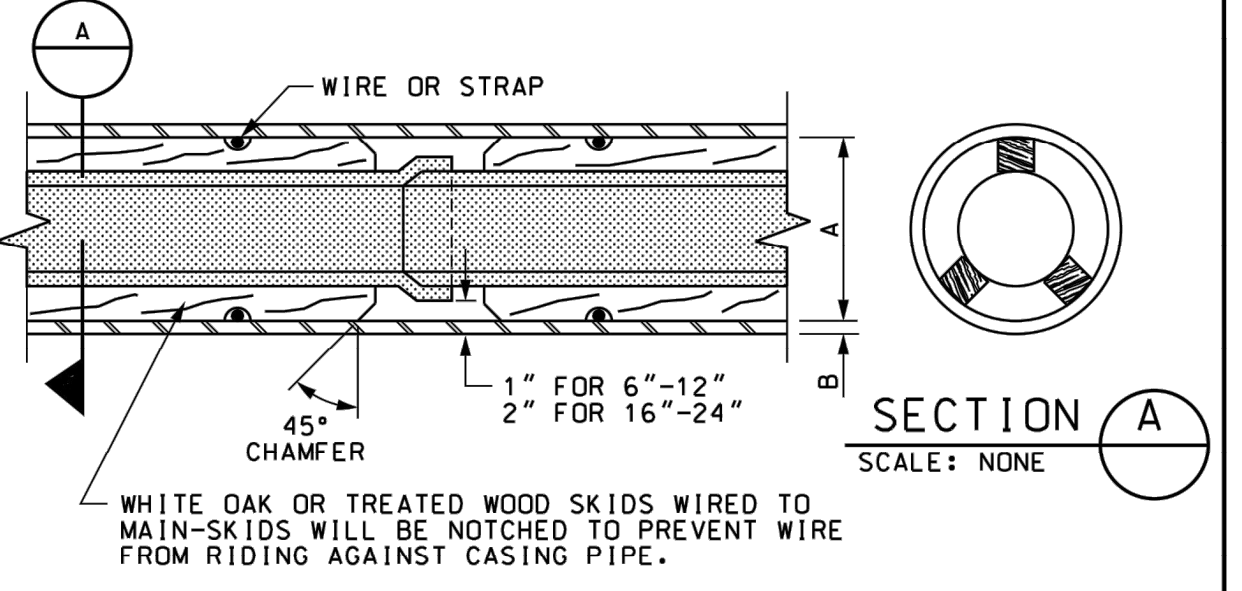
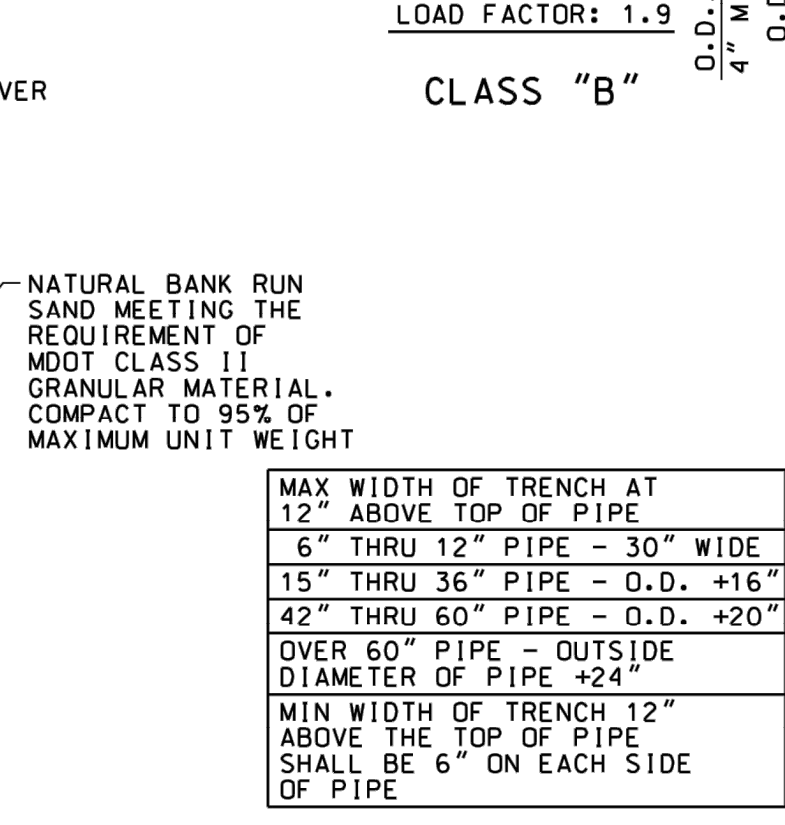
- AS HEREIN SPECIFIED, THE OWNER SHALL BE UNDERSTOOD TO MEAN BROWNSTOWN TOWNSHIP.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL ATTEND A PRE-CONSTRUCTION MEETING, AT A TIME AND PLACE AS ARRANGED BY THE OWNER, AT WHICH VARIOUS UTILITY COMPANIES AND GOVERNMENTAL AGENCY REPRESENTATIVES WILL BE PRESENT.
- PRIOR TO THE PRE-CONSTRUCTION MEETING, THE CONTRACTOR MUST HAVE IN HIS POSSESSION A COPY OF ALL PERMITS NECESSARY TO CONSTRUCT THE IMPROVEMENTS. THE CONTRACTOR SHALL NOTIFY THE PERMIT AGENCY(S), 72 HOURS PRIOR TO ANY CONSTRUCTION.
- THE CONTRACTOR SHALL MAINTAIN HIS CONSTRUCTION OPERATIONS WITHIN THE PRESENTLY EXISTING ROAD RIGHTS-OF-WAY AND EASEMENTS AS NOTED ON THE PLANS. SHOULD THE CONTRACTOR DEEM IT NECESSARY TO OPERATE BEYOND THE LIMITS OF THE EXISTING RIGHTS-OF-WAY OR EASEMENTS, HE SHALL BE RESPONSIBLE FOR MAKING SPECIAL WRITTEN AGREEMENTS WITH THE PROPERTY OWNERS AND SHALL FURNISH COPIES OF SUCH AGREEMENTS TO THE OWNER AND ENGINEER.
- THE CONTRACTOR SHALL NOTIFY "MISS DIG" (800) 482-7171 3 DAYS (NOT INCLUDING HOLIDAYS OR WEEKENDS) NOTICE BEFORE STARTING CONSTRUCTION.
- THE CONTRACTOR SHALL MAKE ANY NECESSARY ARRANGEMENTS WITH UTILITY COMPANIES FOR RELOCATION OF EXISTING UTILITIES. THESE ARRANGEMENTS SHALL BE MADE IN SUFFICIENT TIME TO ALLOW THE RELOCATION WORK TO BE COMPLETED WITHOUT INTERFERING WITH OR DELAYING THIS CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES AND THE ENGINEER 48 HOURS PRIOR TO UNCOVERING ANY EXISTING UTILITIES.
- THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER 72 HOURS PRIOR TO THE START OF ANY CONSTRUCTION.
- THE CONTRACTOR SHALL MAINTAIN ALL TRAFFIC AT ALL TIMES AS PER THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- THE CONTRACTOR SHALL AT ALL TIMES PROVIDE EMERGENCY ACCESS TO PROPERTY IN THE VICINITY OF THE CONSTRUCTION FOR POLICE AND FIRE EQUIPMENT, AMBULANCES OR OTHER EMERGENCY VEHICLES TO PROTECT LIFE, HEALTH AND PROPERTY.
- THE CONTRACTOR SHALL MAINTAIN PUBLIC ROADS AFFECTED BY THE CONSTRUCTION OPERATIONS IN A PASSABLE CONDITION UNTIL FINAL RESTORATION OF THESE IMPROVEMENTS CAN BE MADE. IF THE PUBLIC SAFETY IS IN DANGER OR THE NECESSITY EXISTS FOR MAINTAINING TRAFFIC, BACKFILLING SHALL BE COMPLETED IMMEDIATELY. IN THE EVENT THAT THE NECESSARY BACKFILL MATERIAL AND EQUIPMENT IS NOT AVAILABLE, THE TRENCH SHALL BE TEMPORARILY BACKFILLED WITH NATURAL MATERIAL. HOWEVER, THE NATIVE MATERIAL SHALL BE REMOVED WITHIN 48 HOURS AND THE TRENCH PROPERLY BACKFILLED.
- NO STREET, ROAD OR SECTION THEREOF SHALL BE CLOSED TO THROUGH TRAFFIC UNLESS AUTHORIZED BY THE AGENCY HAVING JURISDICTION. PRIOR TO CLOSING A ROAD, THE CONTRACTOR SHALL SUBMIT A DETOUR PLAN FOR REVIEW AND APPROVAL.
- FIRE DEPARTMENT, POLICE DEPARTMENT, LOCAL ROAD AUTHORITY(S), SCHOOL SYSTEM(S), LOCAL TRASH HAULER(S), AND PUBLIC AND PRIVATE UTILITIES DAILY AS TO WHAT ROADS WILL BE CLOSED OR PARTIALLY CLOSED, THE LENGTH OR TIME OF THE CLOSURE, AND WHEN THE ROAD WILL BE RE-OPENED.
- PAVED STREETS AND DRIVEWAYS SHALL BE MAINTAINED IN A REASONABLE STATE OF CLEANLINESS AND THE CONTRACTOR SHALL REMOVE ACCUMULATIONS OF DEBRIS CAUSED BY HIS OPERATIONS. THE PAVEMENTS SHALL BE CLEANED AT THE CLOSE OF EACH DAY'S OPERATION AND AS OFTEN AS NECESSARY BEFORE THAT TIME. FAILURE TO COMPLY SHALL BE CAUSED TO STOP CONSTRUCTION. CONTRACTOR SHALL ALSO COMPLY WITH THE LOCAL AIR POLLUTION CONTROL ORDINANCES.
- ALL GRAVEL AND DIRT ROADS OR DRIVEWAYS SHALL BE MAINTAINED BY GRADING, PLACING DUST PALLIATIVES, AND MAINTAINING GRAVEL IN SUFFICIENT QUANTITY TO ELIMINATE DUST AND MAINTAIN TRAFFIC.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SHEETING, SHORING, DOWELING, BRACING, TRENCH BOXES, ETC. TO PERFORM THE WORK SAFELY AND PROTECT EXISTING UTILITIES AND IMPROVEMENTS.
- THE FLOW IN THE EXISTING SEWERS SHALL BE MAINTAINED AT ALL TIMES.
- CULVERTS, DITCHES, DRAIN TILES, FIELD TILE, DRAINAGE STRUCTURES, ETC. THAT ARE DISTURBED BY CONSTRUCTION SHALL BE IMMEDIATELY RESTORED.
- ALL PROPERTY IRONS AND MONUMENTS, IF DISTURBED OR DESTROYED BY CONSTRUCTION SHALL BE REPLACED BY A MICHIGAN LICENSED PROFESSIONAL SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- AFTER ALL PIPE, STRUCTURES, ETC. HAVE BEEN LAID, CONSTRUCTED AND BACKFILLED, THE SYSTEM SHALL BE TESTED AND INSPECTED. THE INSPECTION AND TESTING SHALL CONSIST OF A FIRST INSPECTION, TELEVISION INSPECTION (IF APPLICABLE), TESTING, FINAL INSPECTION AND MEASUREMENT. THE CONTRACTOR SHALL PROVIDE THE NECESSARY LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR THE TESTING AND INSPECTION. ALL TESTING AND INSPECTION SHALL BE CONDUCTED IN THE PRESENCE OF THE ENGINEER. TWO (2) WORKING DAYS NOTICE IS REQUIRED IN ADVANCE OF ALL TESTING AND INSPECTION.
- THE CONTRACTOR SHALL HAVE THE UNDERGROUND PORTION OF THE UTILITY READY FOR THE FIRST INSPECTION WITHIN TWO (2) WEEKS AFTER COMPLETION OF THE UTILITY.
- THE FIRST INSPECTION SHALL CONSIST OF A VISIBLE AND AUDIBLE CHECK OF SEWERS, MANHOLES, GATE WELLS, AND OTHER STRUCTURES TO ASCERTAIN THAT THE STEPS HAVE BEEN PLACED, ALL LIFT HOLES PLUGGED, CHANNELS COMPLETED, ALL VISIBLE OR AUDIBLE LEAKS STOPPED, ALL PIPE IS STRAIGHT AND TRUE TO LINE AND GRADE, ADJUSTING RINGS AND FRAME AND COVER PROPERLY INSTALLED, ALL BACKFILL COMPLETED, AND THE SYSTEM HAS BEEN THOROUGHLY CLEANED.
- THE FIRST INSPECTION SHALL BE CONSIDERED COMPLETE WHEN ALL REPAIRS HAVE BEEN MADE AND THE SYSTEM IS READY FOR TELEVISION INSPECTION OR SUBSEQUENT TESTING.
- THE FIRST INSPECTION SHALL BE COMPLETED AND ALL REPAIRS MADE SO THAT THE TELEVISION INSPECTION, AIR TESTING, PRESSURE TESTING, ETC. CAN BE COMPLETED WITHIN FOUR (4) WEEKS OF THE COMPLETION OF THE LINE. WHEN RE-TELEVISION IS NECESSARY, AN ADDITIONAL TWO (2) WEEKS WILL BE ALLOWED. TESTING OF THE SYSTEM SHALL IMMEDIATELY FOLLOW THE TELEVISION INSPECTION AND SHALL BE COMPLETED WITHIN A TWO (2) WEEK PERIOD.
- FAILURE TO MAINTAIN A SCHEDULE IN COMPLIANCE WITH THESE TERMS MAY CAUSE STOPPAGE OF THE WORK UNTIL FINAL INSPECTION OF THE COMPLETED WORK HAS PROCEEDED TO ACCEPTABLE LIMITS.
- AFTER ALL TESTING, TELEVISION INSPECTION, FINAL RESTORATION AND CLEANUP HAS BEEN COMPLETED, A FINAL INSPECTION AND MEASUREMENT WILL BE DONE. THE FINAL INSPECTION SHALL BE REQUESTED BY THE CONTRACTOR AND CONSIST OF: CHECKING FOR PROPER ALIGNMENT, GRADE, CLEANLINESS, LEAKS, CONFORMANCE TO PLANS AND SPECIFICATIONS; PROPER STRUCTURAL AND MECHANICAL ADJUSTMENTS; RESTORATION, ETC. FINAL MEASUREMENT INCLUDES STRUCTURE ELEVATIONS; DISTANCE BETWEEN STRUCTURES, AND CONFIRMATION UTILITIES ARE LOCATED WITHIN EASEMENTS AND RIGHT-OF-WAY.
- SUCCESSFUL COMPLETION OF ANY TEST OR INSPECTION SHALL NOT RELIEVE CONTRACTOR FROM THEIR RESPONSIBILITY TO CORRECT ANY DEFECTS IN MATERIALS OR WORKMANSHIP WHICH MAY LATER BECOME KNOWN.
- SAND BACKFILL SHALL BE USED UNDER ALL PAVEMENTS (INCLUDING GRAVEL SURFACED PAVEMENTS, ROADS, SHOULDERS, PROPOSED PAVEMENTS, SIDEWALKS, CURBS, DRIVEWAYS, ETC.) OR WHERE THE EXCAVATION IS WITHIN 3- FEET OF THE PAVEMENT.



MAX WIDTH OF TRENCH AT 12\"/>

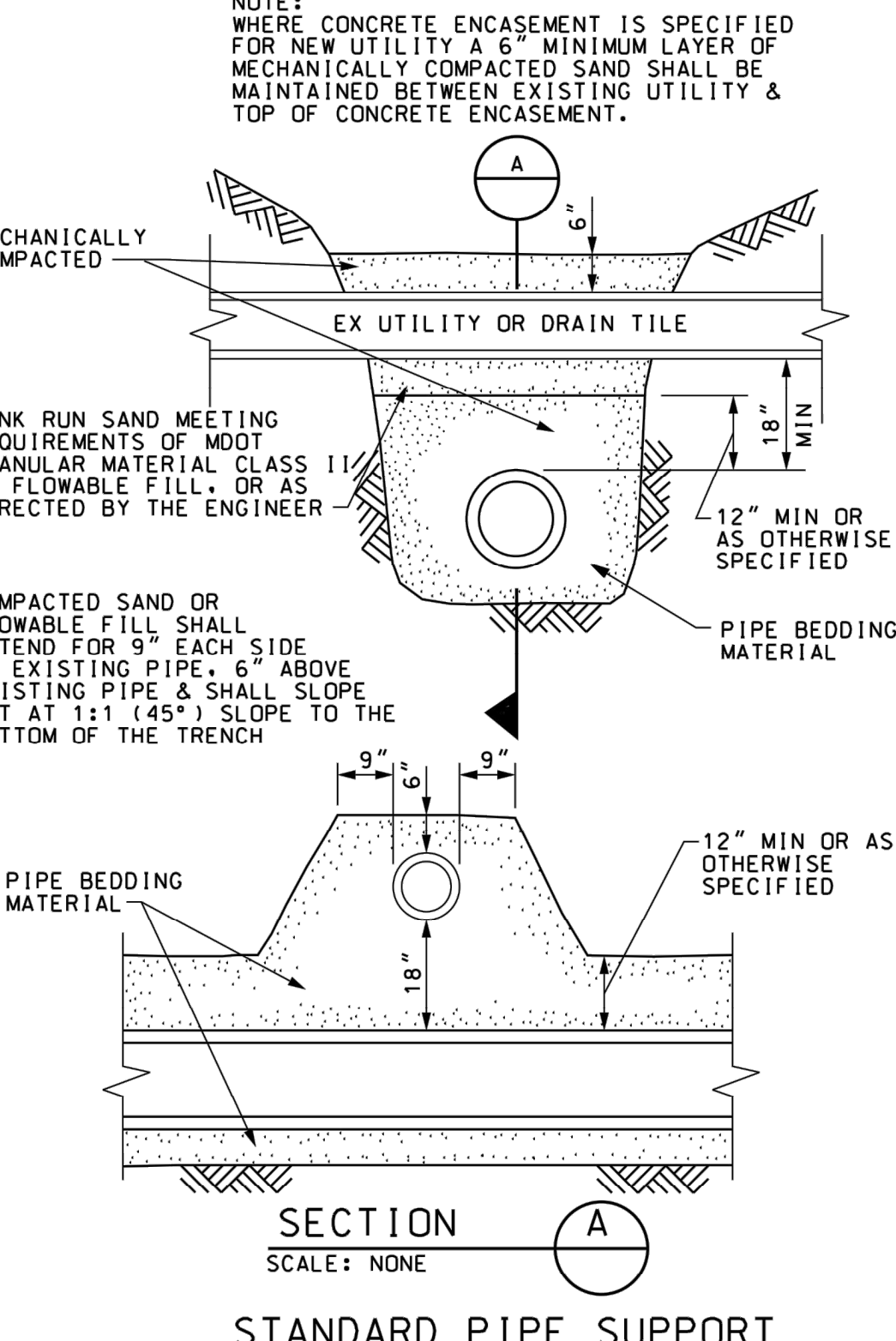


TRENCH A
NOTE: ALL TRENCHES UNDER ROAD SURFACES, PAVEMENT, CURB, DRIVEWAY, SIDEWALK, AND WHERE THE TRENCH EDGE IS WITHIN THREE (3) FEET OF THE PAVEMENT AS NOTED HEREIN SHALL BE BACKFILLED PER TRENCH "A"



DIA OF SEWER	DIA OF MAIN	MIN "A"	ROAD CROSSING MIN "B"	RAILROAD CROSSING MIN "B"
PVC OR TRUSS	CONCRETE			
6"	6"	16"	.375	.375
8"	8"	16"	.375	.375
10"	12"	20"	.375	.438
12" & 15"	10"	16"	.24"	.375
	12" & 15"	20"	.30"	.375
	18"	24"	.36"	.500

- NOTES:**
- NO WATER SHALL BE USED IN BORING UNDER RAILROADS.
 - MAINTAIN MINIMUM OF 5'-6" OF COVER BETWEEN BASE OF RAIL AND TOP OF CASING.
 - THE ENDS OF THE CASING SHALL BE SUITABLY PROTECTED AGAINST THE ENTRANCE OF FOREIGN MATERIAL, BUT SHALL NOT BE TIGHTLY SEALED.
 - WHEN BORING ALL VOIDS OUTSIDE OF CASING PIPE SHALL BE FILLED BY MEANS OF PRESSURE GROUTING WITH 1:3 CEMENT-SAND MORTAR. THIS WORK MUST BE ACCOMPLISHED WITHIN 24 HOURS AFTER THE CROSSING HAS BEEN COMPLETED. BORING SHALL EXTEND A MINIMUM OF 10 FEET OUTSIDE THE EDGES OF THE PAVEMENT.
 - SKIDS ARE TO BE MINIMUM OF 80% OF PIPE LENGTH.



PROJECT MANAGER: FIELD BOOK INFORMATION: PLOTTED 6/14/2011 10:34:40 AM BY: wlfisher

CHARTER TWP OF BROWNSTOWN
MISCELLANEOUS DETAILS

ISSUED FOR: DATE: BY:

JOB NO.:

SHEET: **MD1**

WadeTrim logo and contact info.

CITY AND COUNTY COMMENTS

TOWNSHIP/MDOT COMMENTS

01.20.22 ISSUED FOR BID

03.11.22 ISSUED FOR CONSTRUCTION

CONTRACT DATE: 01/01/19

BUILDING TYPE: ENDEAVOR 2.0

PLAN VERSION: MARCH 2022

BRAND DESIGNER: DAN DICKSON

SITE NUMBER: 315089

STORE NUMBER: 40164

TACO BELL
18708 TELEGRAPH RD
BROWNSTOWN, MI 48183

TACO BELL

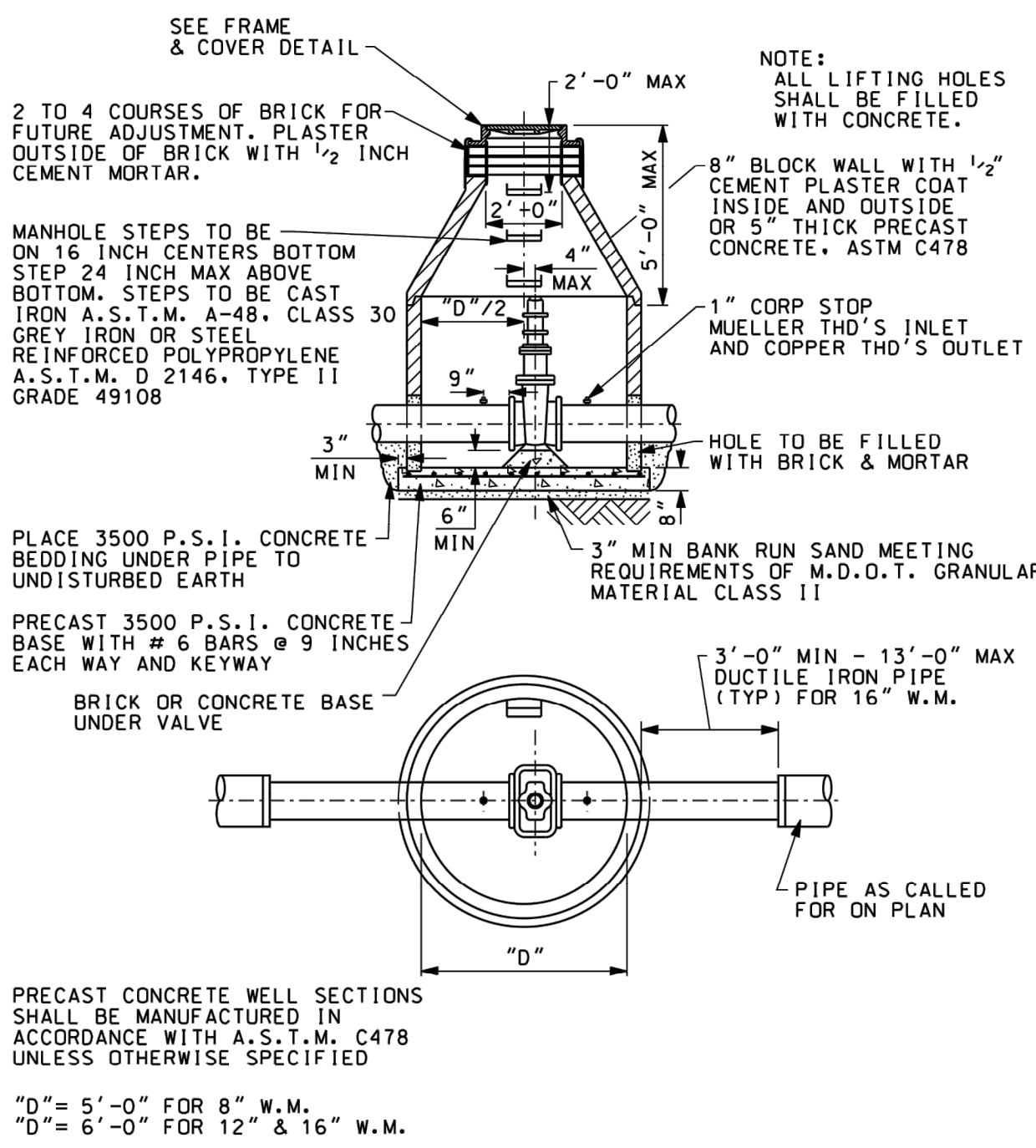
ENDEAVOR 2.0

BROWNSTOWN MISC. DETAILS

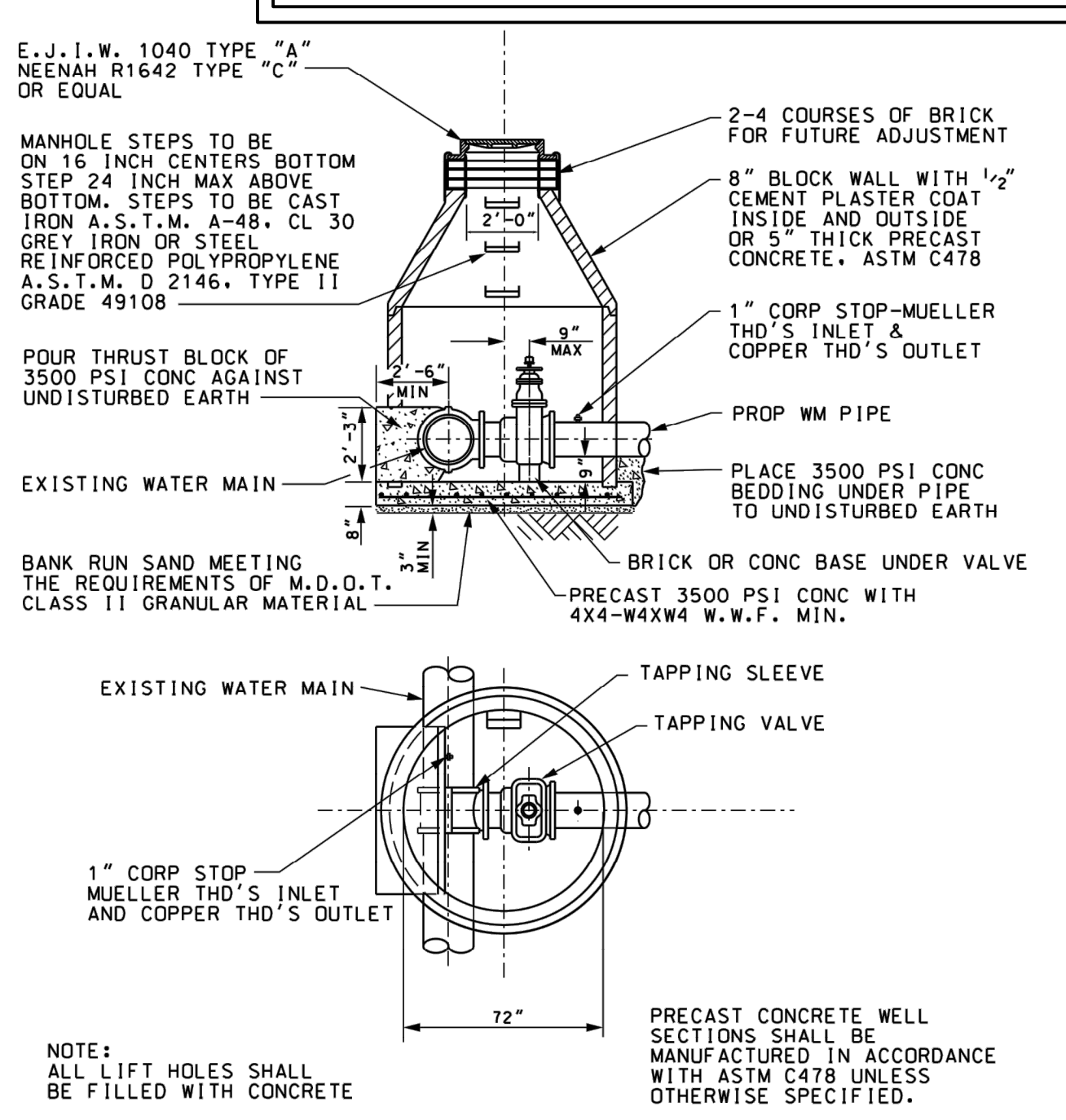
C-505

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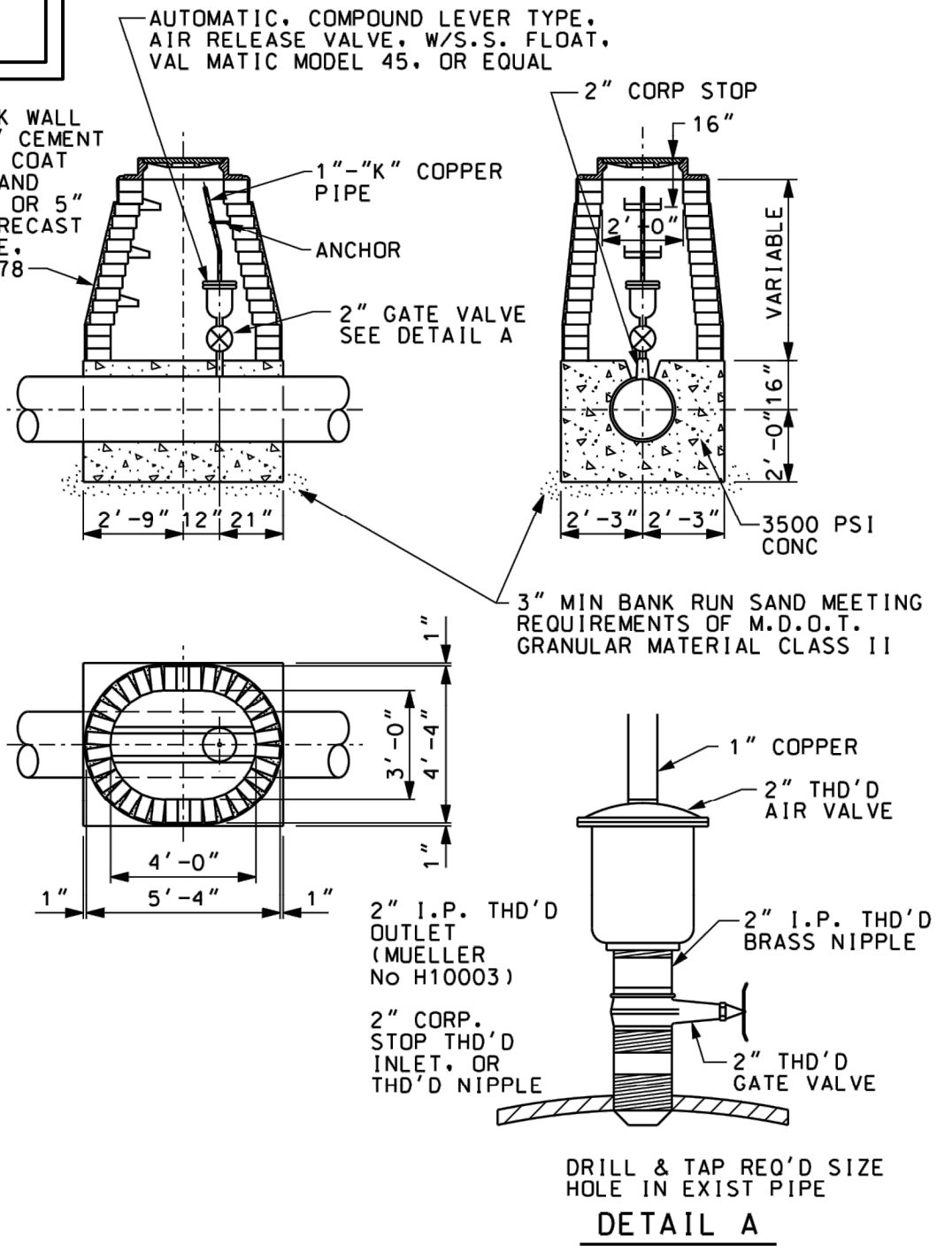
This document has not been reviewed by the stamping party. Therefore, the stamping party makes no representation(s) with respect to its contents, and shall not be liable for such. Any reliance on this stamp shall be at the relying party(ies)'s own risk and hereby waives any and all claim(s) related to the existence of the stamp or otherwise.



PRECAST GATE WELL



STANDARD PRECAST TAPPING SLEEVE, VALVE & WELL



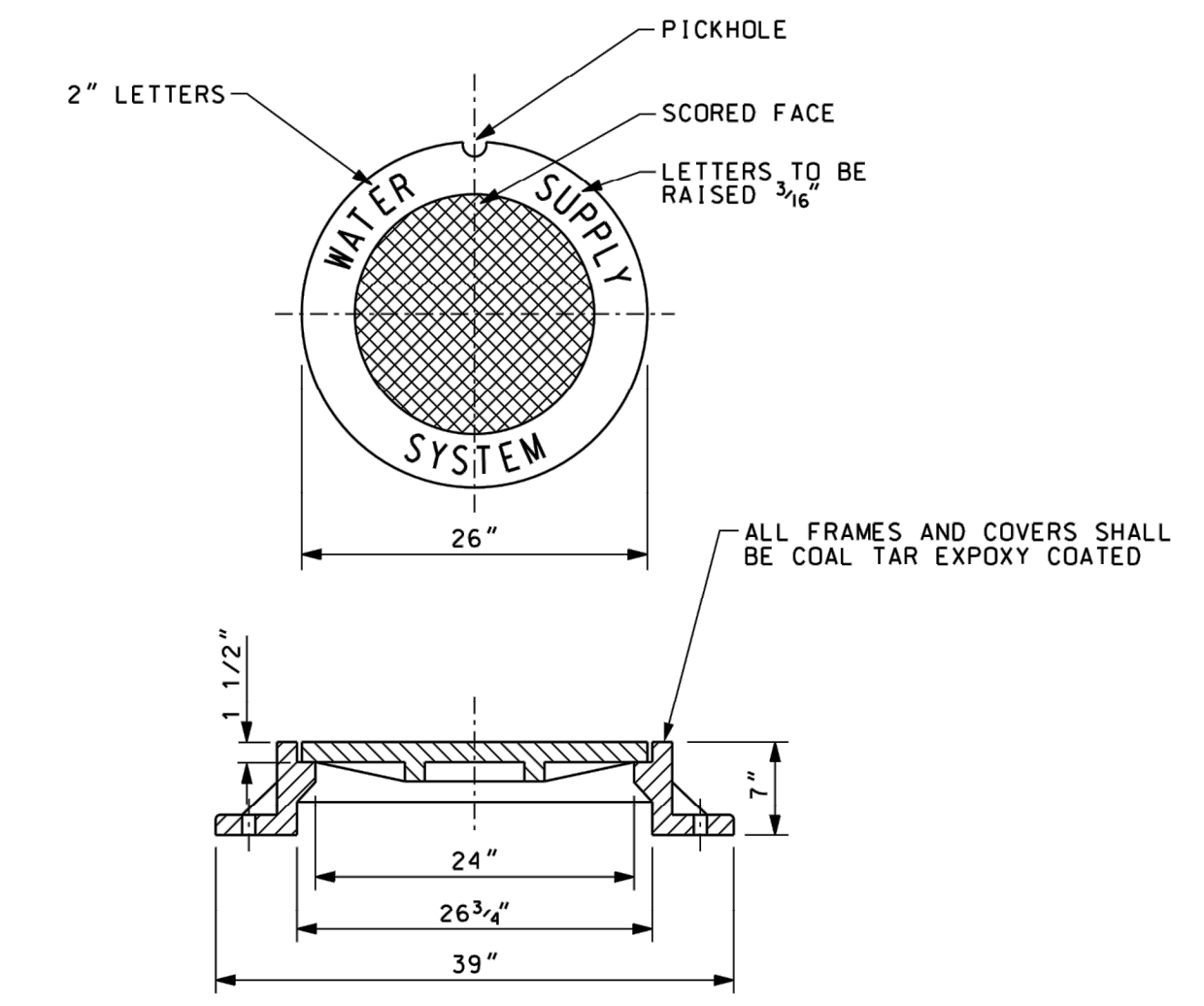
STANDARD AIR RELEASE & WELL FOR 16" & 20" WATER MAIN

WATER MAIN NOTES

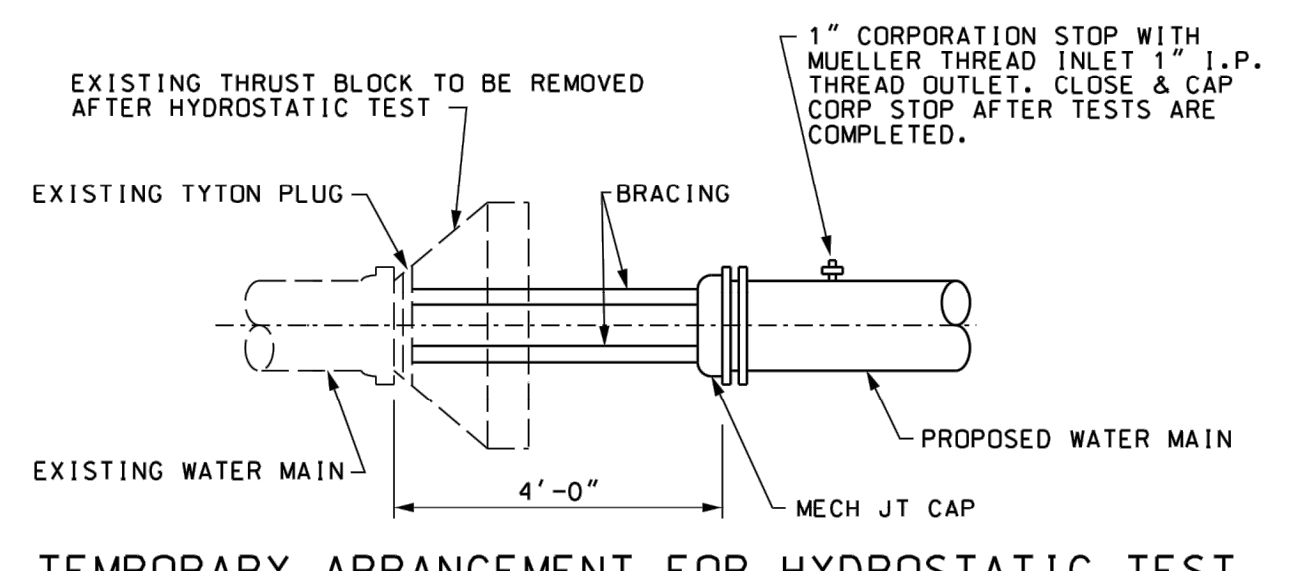
- ALL WATER SYSTEM CONSTRUCTION SHALL CONFORM TO THE CURRENT STANDARDS AND GENERAL SPECIFICATIONS OF THE AGENCY OR AGENCIES HAVING JURISDICTION OF THE WATER SUPPLY SYSTEM AND CONSTRUCTION AREA. ALL WORK WITHIN THE WAYNE COUNTY ROAD RIGHT-OF-WAY SHALL CONFORM TO THE WAYNE COUNTY GENERAL NOTES (GN-1)
- WATER MAINS SHALL NOT BE CONSTRUCTED UNDER SIDEWALKS OR ROAD PAVEMENT AREAS.
- GATE WELLS AND OTHER WATER MAIN STRUCTURES SHALL NOT BE CONSTRUCTED UNDER DRIVEWAYS, DRIVE APPROACHES, OR SIDEWALKS.
- ALL SURFACE STRUCTURES, SUCH AS HYDRANTS, GATE WELLS AND VALVE BOXES SHALL BE SET TO GRADE AS FURNISHED BY THE ENGINEER OR AS INDICATED ON THE PLANS.
- FIRE HYDRANTS ARE TO BE INSTALLED PLUMB AND HAVE THEIR NOZZLES ALIGNED AS DETERMINED BY THE ENGINEER.
- HYDRANT LOCATION: HYDRANTS ARE TO BE LOCATED AS FOLLOWS UNLESS OTHERWISE NOTED ON THE PLANS:
SECTION LINE ROADS - 40 FEET OFF SECTION LINE
1/4 LINE ROADS - 33 FEET OFF THE 1/4 LINE
RESIDENTIAL STREETS - 22 FEET OFF CENTERLINE
- PROVIDE 7-FOOT MINIMUM COVER BELOW EXISTING PAVEMENT CENTERLINE OR GROUND, WHICHEVER IS LOWER, WHEN THE PROPOSED WATER MAIN IS WITHIN 32 FEET OF CENTERLINE ON SECTION LINE ROADS, OR WITHIN 19 FEET OF CENTERLINE ON 1/4 LINE ROADS. SEVEN FEET OF COVER SHALL ALSO BE REQUIRED AT OTHER LOCATIONS AS NOTED ON THE PLANS. PROVIDE 6 FOOT MINIMUM COVER BELOW EXISTING ROAD CENTER LINE OR GROUND AT WATER MAIN, WHICHEVER IS LOWER, AT ALL OTHER LOCATIONS UNLESS OTHERWISE SPECIFICALLY NOTED ON THE PLANS.
- PLACE SAND BACKFILL WITHIN 3 FEET OF ALL STRUCTURES INCLUDING VALVE WELLS, FIRE HYDRANTS, ETC.
- ALL WATER MAIN PIPE SHALL HAVE CLASS III BEDDING UNLESS OTHERWISE NOTED ON THE PLANS. SEE SHEET MD-1.
- ALL PRECAST PRODUCTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-478.
- WATER MAIN TO BE PLACED LEVEL THROUGH ALL GATE WELLS.
- WHEN JACKING OR BORING, ALL VOIDS SHALL BE FILLED BY MEANS OF PRESSURE GROUTING WITH 1:3 CEMENT:SAND MORTAR. THIS WORK MUST BE ACCOMPLISHED WITHIN 24 HOURS AFTER THE WATER MAIN HAS BEEN INSTALLED. WATER MAIN JACKING OR BORING SHALL EXTEND A MINIMUM OF 10 FEET OUTSIDE THE EDGES OF THE PAVEMENT.
- ALL WATER MAIN INSTALLATION/REPLACEMENT SHALL BE SUBJECT TO PRESSURE AND BACTERIOLOGICAL TESTS PERFORMED IN ACCORDANCE WITH THE OWNERS REQUIREMENTS. THE CONTRACTOR SHALL ARRANGE FOR, PERFORM, PAY APPLICABLE FEES, AND COORDINATE THIS TESTING. THE CONTRACTOR SHALL KEEP THE OWNER AND THE ENGINEER APPRISED OF THE SCHEDULE AND TEST RESULTS.
- CONNECTION TO EXISTING WATER MAIN SHALL BE MADE ONLY AFTER HYDROSTATIC AND BACTERIOLOGICAL TESTS HAVE BEEN SUCCESSFULLY COMPLETED AND REVIEWED BY THE ENGINEER.

BROWNSTOWN NOTES

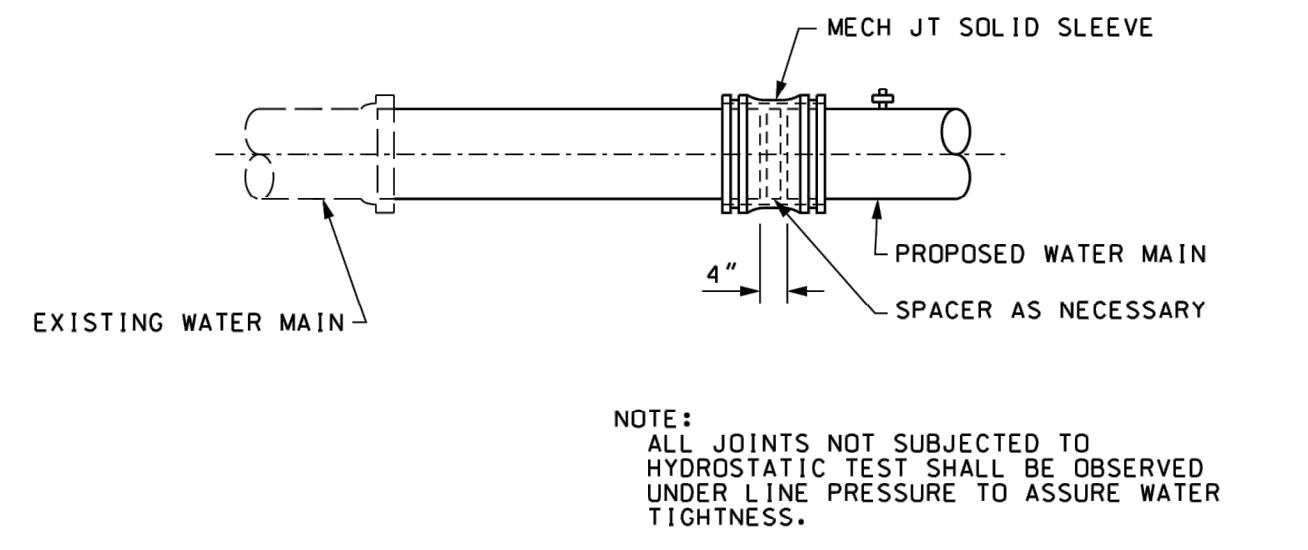
- FIRE HYDRANTS SHALL BE EAST JORDAN IRON WORKS 5-BR BREAK-AWAY TYPE CONFORMING TO AWWA C502 SPECIFICATION. HYDRANTS SHALL OPEN IN A COUNTER-CLOCKWISE DIRECTION WITH A DIRECTIONAL ARROW CAST IN THE BONNET. OPERATING NUT SHALL BE 2-INCH SQUARE. HYDRANTS SHALL HAVE 5-1/4 INCH SAE VALVE, A 6-INCH MECHANICAL JOINT HUB, AND DOUBLE OPERATING STEM O-RING SEALS. HYDRANT SHALL BE EQUIPPED WITH TWO 4-INCH PUMPER NOZZLES, WITH DETROIT STANDARD THREAD, AND DETROIT FIRE DEPARTMENT STANDARD OPERATING NUT. HYDRANTS SHALL BE SUITABLE FOR 6.5 FOOT BURY PAINTED YELLOW.
- GATE VALVES FOR SIZES 4-INCH THROUGH 16-INCH DIAMETER SHALL BE EAST JORDAN IRON WORKS, TYPE DWS, SOLID WEDGE, CONFORMING TO DETROIT WATER SYSTEM SPECIFICATION. VALVES SHALL BE DESIGNED FOR A WORKING PRESSURE OF 200 PSI AND A TEST PRESSURE OF 400 PSI, AND OPEN IN A CLOCKWISE DIRECTION AND SHALL HAVE A 2-INCH SQUARE OPERATING NUT. VALVES SHALL HAVE MECHANICAL JOINT INLET AND OUTLET CONNECTIONS.
- WATER SERVICE AND WATER MAIN PIPE SHALL BE:
A. 1-INCH THROUGH 2-INCH DIAMETER - TYPE "K" COPPER. WATER SERVICES SHALL BE MINIMUM 1-INCH.
B. 4-INCH THROUGH 12-INCH DIAMETER WATER MAIN - DUCTILE IRON CLASS 54, MIN. THICKNESS COAL TAR ENAMEL COATING INSIDE AND OUTSIDE. WATER MAIN SHALL BE MINIMUM 8-INCH DIAMETER.
C. 16-INCH AND LARGER - DUCTILE IRON CLASS 54 OR CONCRETE CYLINDER PIPE DESIGNED FOR A MAXIMUM PRESSURE OF 250 PSI.
- ALL FITTINGS SHALL BE DUCTILE IRON, PRESSURE RATING 350 PSI MINIMUM, CONFORM TO ANSI/AWWA C153/A21.53, COMPACT FITTINGS, WITH DOUBLE THICKNESS CEMENT MORTAR LINING AND COAL TAR ENAMEL COATING INSIDE AND OUTSIDE.



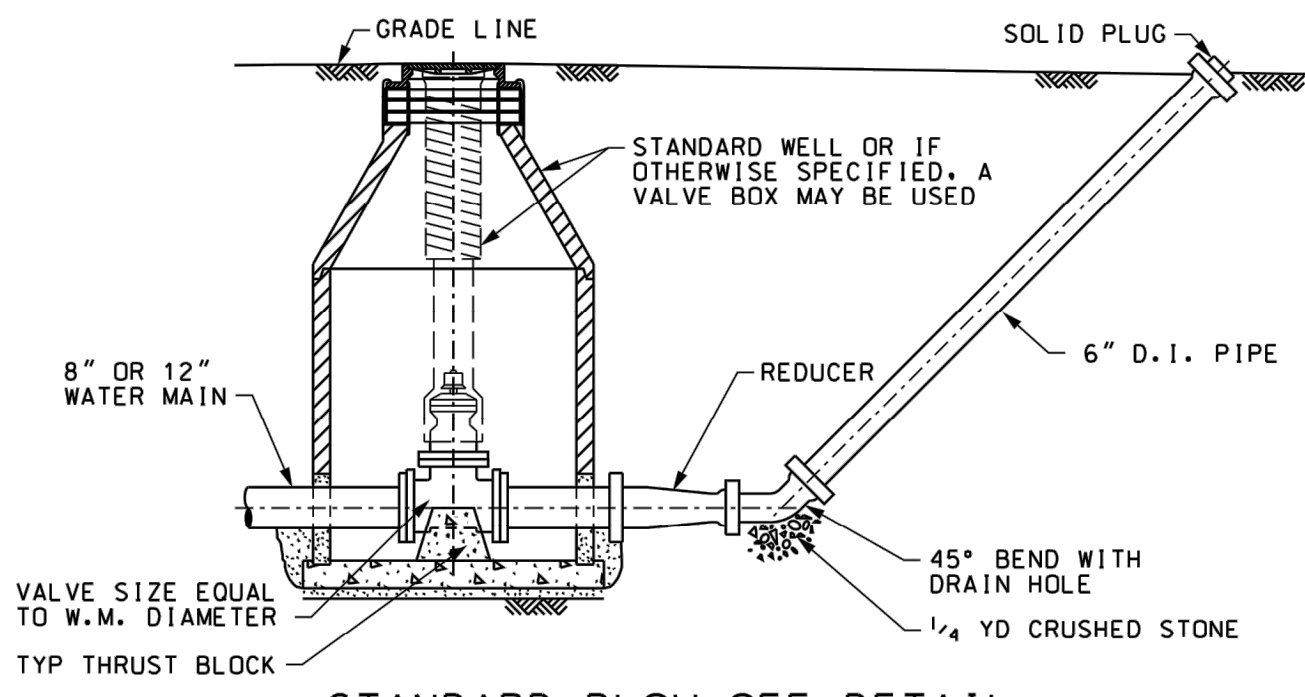
STANDARD FRAME AND COVER



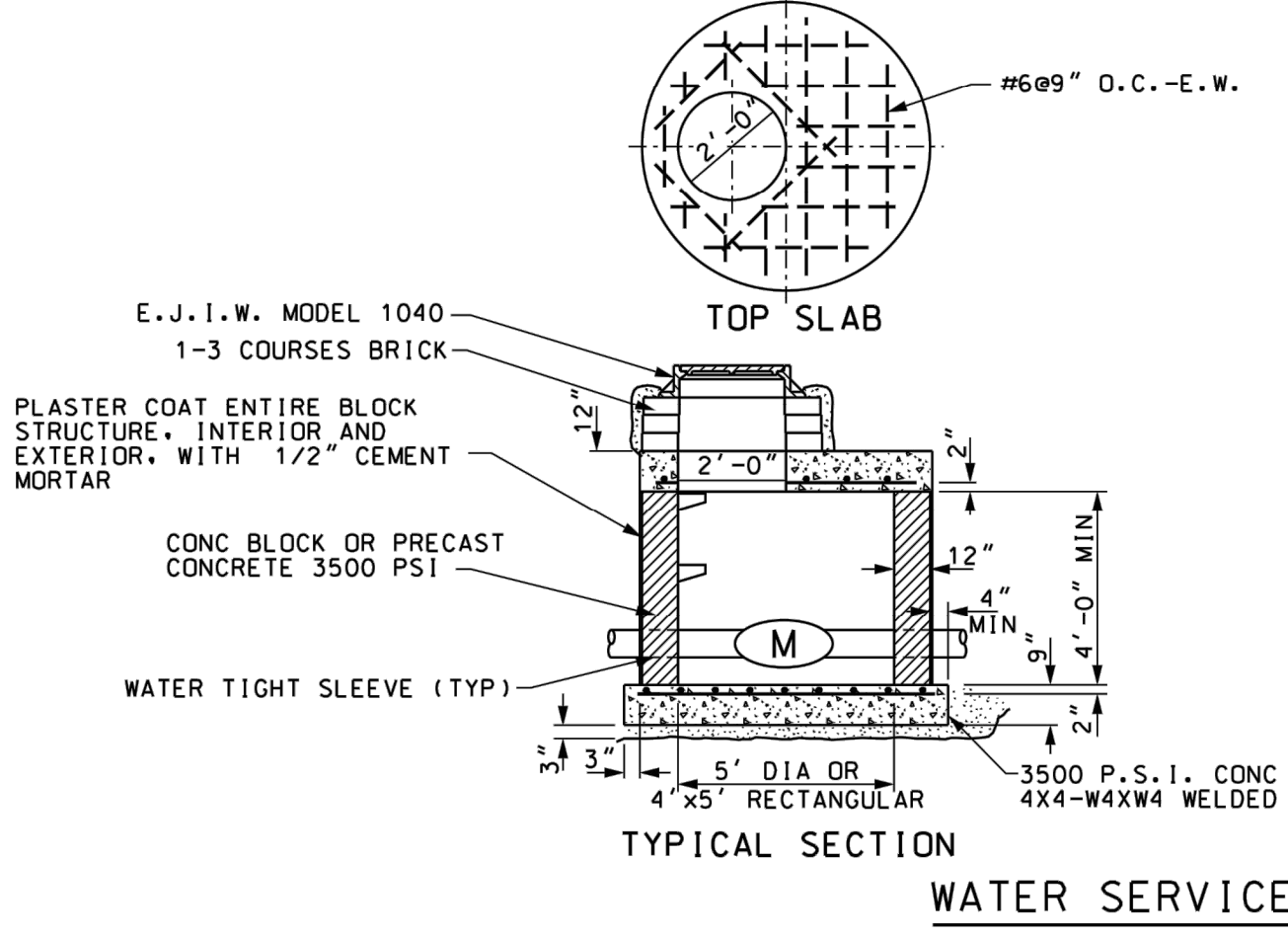
TEMPORARY ARRANGEMENT FOR HYDROSTATIC TEST



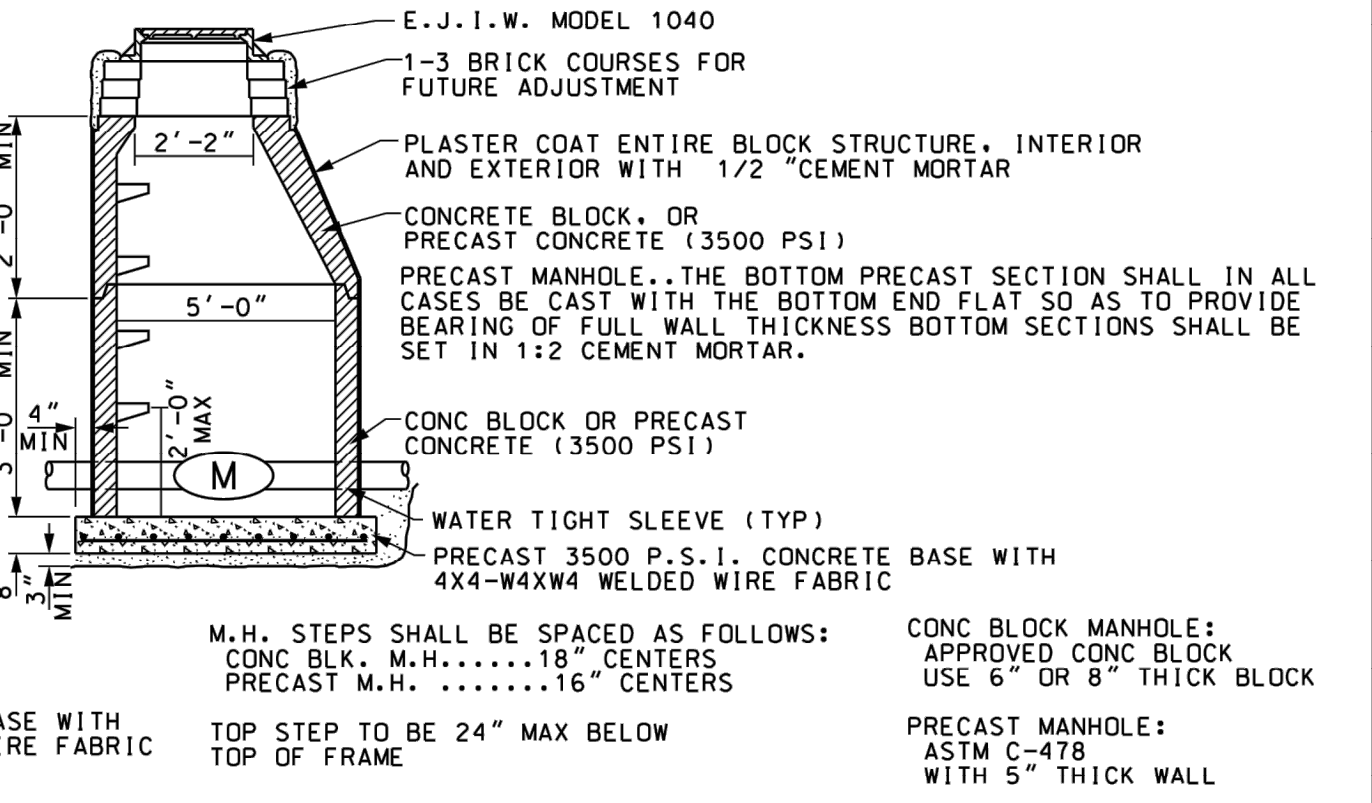
COMPLETED CONNECTION TO EXISTING WATER MAIN



STANDARD BLOW-OFF DETAIL



WATER SERVICE METER PIT DETAIL



FOR REFERENCE ONLY

- CITY AND COUNTY COMMENTS
- TOWNSHIP/MDOT COMMENTS
- 01.20.22 ISSUED FOR BID
- 03.11.22 ISSUED FOR CONSTRUCTION

CONTRACT DATE: 01/01/19
BUILDING TYPE: ENDEAVOR 2.0
PLAN VERSION: MARCH 2022
BRAND DESIGNER: DAN DICKSON
SITE NUMBER: 315089
STORE NUMBER: 40164

TACO BELL
18708 TELEGRAPH RD
BROWNSTOWN, MI 48183



ENDEAVOR 2.0

BROWNSTOWN WATER DETAILS

C-506

DESIGN	ORIGINAL ISSUE	INITIALS	DATE	DATE	REVISION
	ISSUED FOR BID	MMC	8-20-96	2-26-03	REVISED
DRAFTING					
CHECKED	NOT VALID FOR CONST. UNLESS SIGNED AND DATED				
APPROVED					FINAL MEASURE

CLIENT: CHARTER TOWNSHIP OF BROWNSTOWN
21313 TELEGRAPH ROAD
BROWNSTOWN, MI 48183
PHONE: (734) 675-4000 FAX (734) 675-2921

Wade-Trim
P.O. Box 10
25251 Northline Road, Taylor, MI 48180
734-947-9700 / 800-482-2864
FAX No. 734-947-9726

TITLE: STANDARD WATER MAIN DETAILS
SCALE: NONE
SHEET: WM1 OF

DATE: 13-Jan-97 10:41	BY: BLW	TOP: F.B.	LEVELS: F.B.	PAGE: PAGE
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DIA OF WATER MAIN D	THRUST BLOCK		
D	A	B	C
6"	2'-0"	1'-6"	1'-0"
8"	2'-0"	2'-0"	1'-3"
10" & 12"	3'-6"	2'-6"	1'-6"
14" & 16"	5'-6"	3'-0"	1'-9"
18" & 20"	6'-6"	4'-0"	1'-9"
24"	7'-0"	5'-0"	2'-0"

NOTE: WHEN "A" DIMENSION IS 6'-0" OR GREATER, USE #4 BARS AT 12" CENTERS EACH WAY.

THRUST BLOCK AT 45° BEND

DIA OF WATER MAIN D	THRUST BLOCK		
D	A	B	C
6"	1'-6"	1'-0"	1'-0"
8"	1'-9"	1'-3"	1'-0"
10" & 12"	3'-0"	1'-6"	1'-3"
14" & 16"	4'-0"	2'-0"	1'-6"
18" & 20"	4'-0"	3'-0"	1'-9"
24"	4'-0"	4'-6"	2'-0"

3500 P.S.I. CONC POURED AGAINST UNDISTURBED EARTH

THRUST BLOCK AT 22 1/2° BEND

DIA OF WATER MAIN D	THRUST BLOCK		
D	A	B	C
6"	1'-0"	1'-0"	1'-0"
8"	1'-3"	1'-3"	1'-0"
10" & 12"	1'-6"	1'-6"	1'-3"
14" & 16"	2'-0"	2'-0"	1'-6"
18" & 20"	3'-1"	2'-0"	1'-9"
24"	3'-0"	3'-0"	2'-0"

NOTE: THESE TABLES ARE BASED ON SOIL BEARING OF 1500 P.S.F. IN MUCK, PEET OR OTHER UNSUITABLE SOILS HAVING A SOIL BEARING LESS THAN 1500 P.S.F., THE CONTRACTOR SHALL PROVIDE SUITABLE ADDITIONAL BLOCKING, ENCASEMENTS OR RESTRAINTS. BLOCKING IN BORE PIT EXCAVATIONS SHALL BE AGAINST UNDISTURBED SOIL OR SHALL BE PROVIDED WITH RESTRAINTS AS REQUIRED.

THRUST BLOCK AT 11 1/4° BEND

DIA OF WATER MAIN D	THRUST BLOCK		
D	A	B	C
6"	2'-0"	1'-6"	9"
8"	2'-6"	2'-0"	1'-0"
10" & 12"	4'-0"	3'-0"	1'-3"
14" & 16"	5'-0"	4'-0"	1'-6"
18" & 20"	8'-0"	4'-0"	1'-9"
24"	9'-0"	5'-0"	2'-0"

NOTE: WHEN "A" DIMENSION IS 6'-0" OR GREATER, USE #4 BARS AT 12" CENTERS EACH WAY.

THRUST BLOCK AT TEE

3500 P.S.I. CONC POURED AGAINST UNDISTURBED EARTH

DIA OF WATER MAIN D	THRUST BLOCK		
D	A	B	C
6"	2'-0"	1'-6"	9"
8"	2'-6"	2'-0"	1'-0"
10" & 12"	4'-0"	3'-0"	1'-3"
14" & 16"	5'-0"	4'-0"	1'-6"
18" & 20"	8'-0"	4'-0"	1'-9"
24"	9'-0"	5'-0"	2'-0"

NOTE: WHEN "A" DIMENSION IS 6'-0" OR GREATER, USE #4 BARS AT 12" CENTERS EACH WAY.

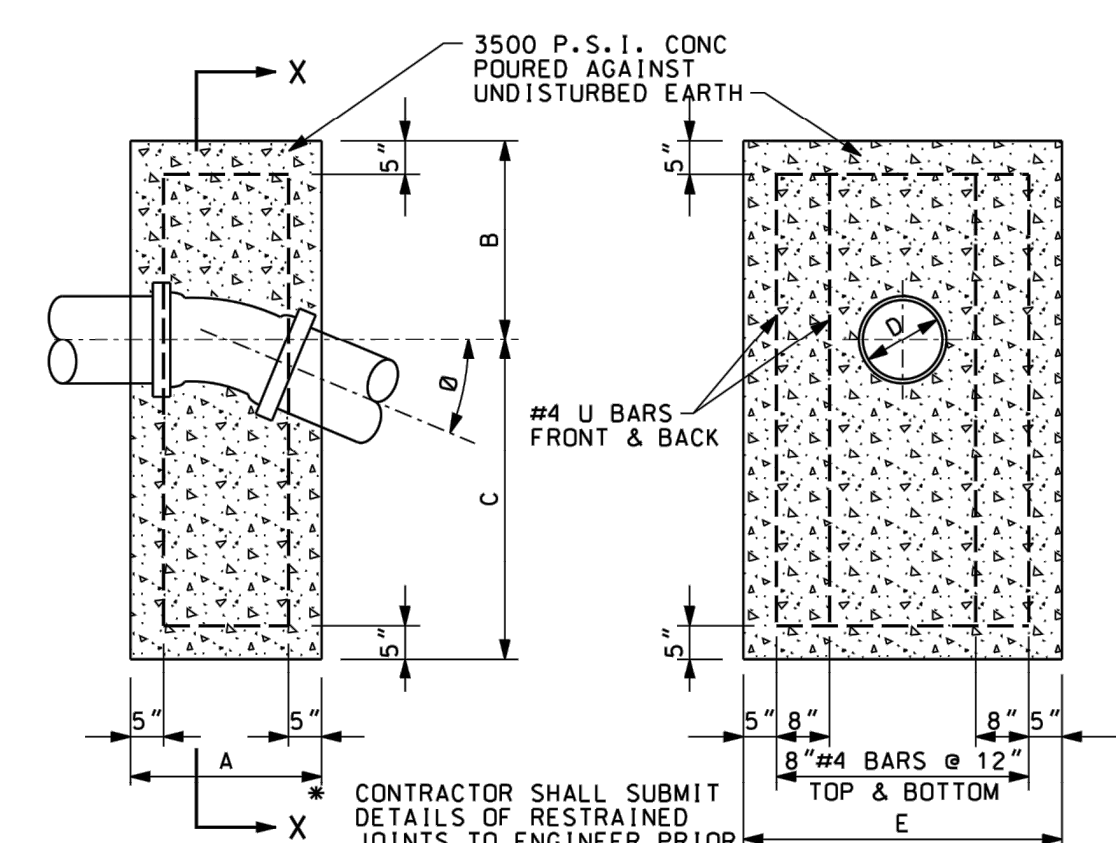
THRUST BLOCK AT PLUG

DIA OF WATER MAIN D	THRUST BLOCK		
D	A	B	C
6"	2'-9"	1'-6"	9"
8"	3'-0"	2'-6"	1'-0"
10" & 12"	5'-6"	3'-0"	1'-3"
14" & 16"	6'-0"	5'-0"	1'-6"
18" & 20"	9'-0"	5'-0"	1'-9"
24"	11'-0"	6'-0"	2'-0"

NOTE: WHEN "A" DIMENSION IS 6'-0" OR GREATER, USE #4 BARS AT 12" CENTERS EACH WAY.

THRUST BLOCK AT 90° BEND

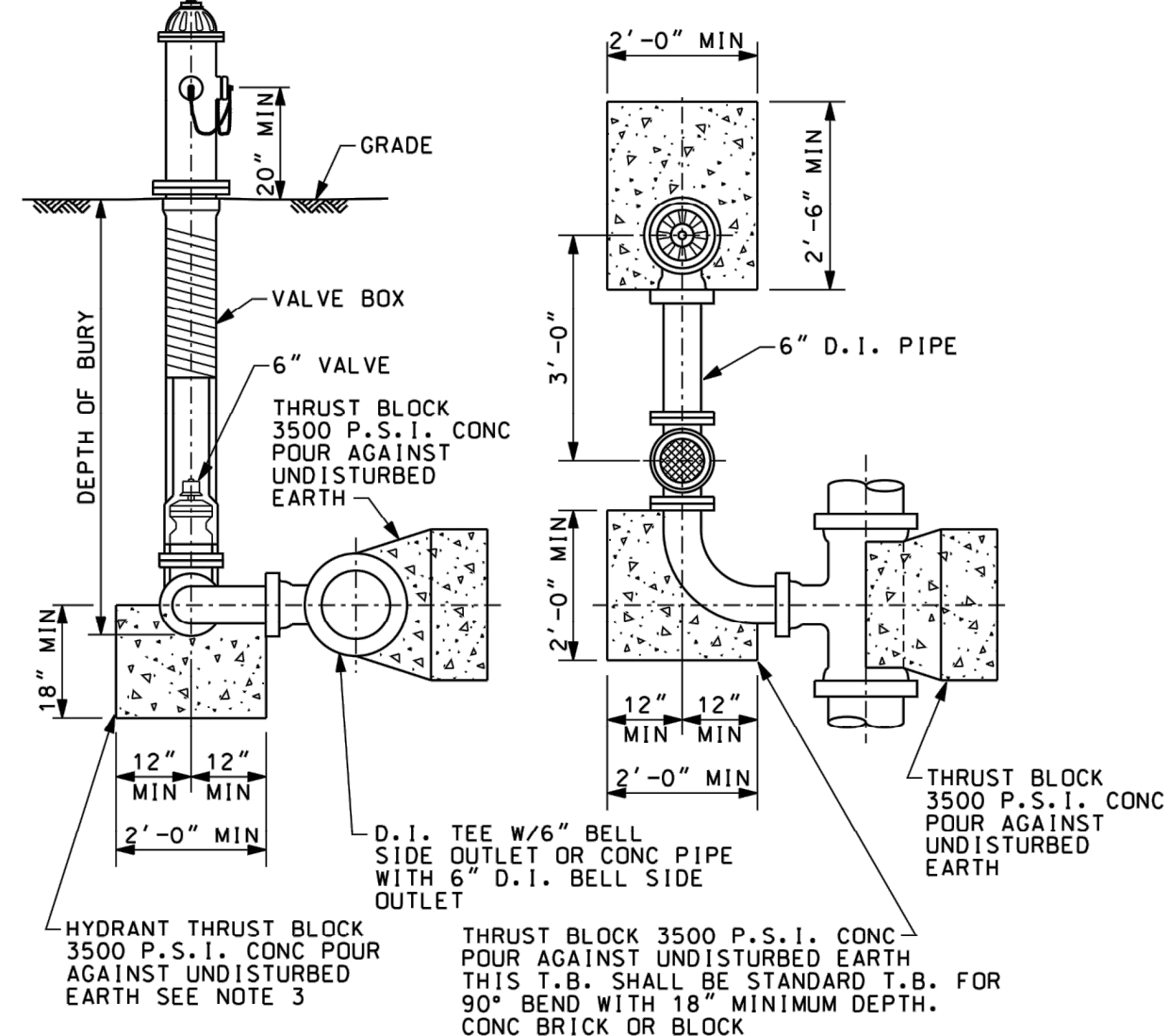
3500 P.S.I. CONC POURED AGAINST UNDISTURBED EARTH



D	Ø	A	B	C	E
6"	22 1/2°	1'-6"	1'-6"	1'-9"	3'-0"
8"	45°	1'-0"	1'-6"	2'-6"	4'-0"
10"	22 1/2°	2'-0"	2'-6"	3'-0"	4'-0"
12"	45°	2'-3"	2'-6"	4'-0"	5'-0"
16"	22 1/2°	2'-0"	2'-6"	4'-0"	4'-0"
	45°	2'-4"	3'-0"	4'-6"	5'-0"
		2'-2"	3'-0"	4'-6"	5'-0"

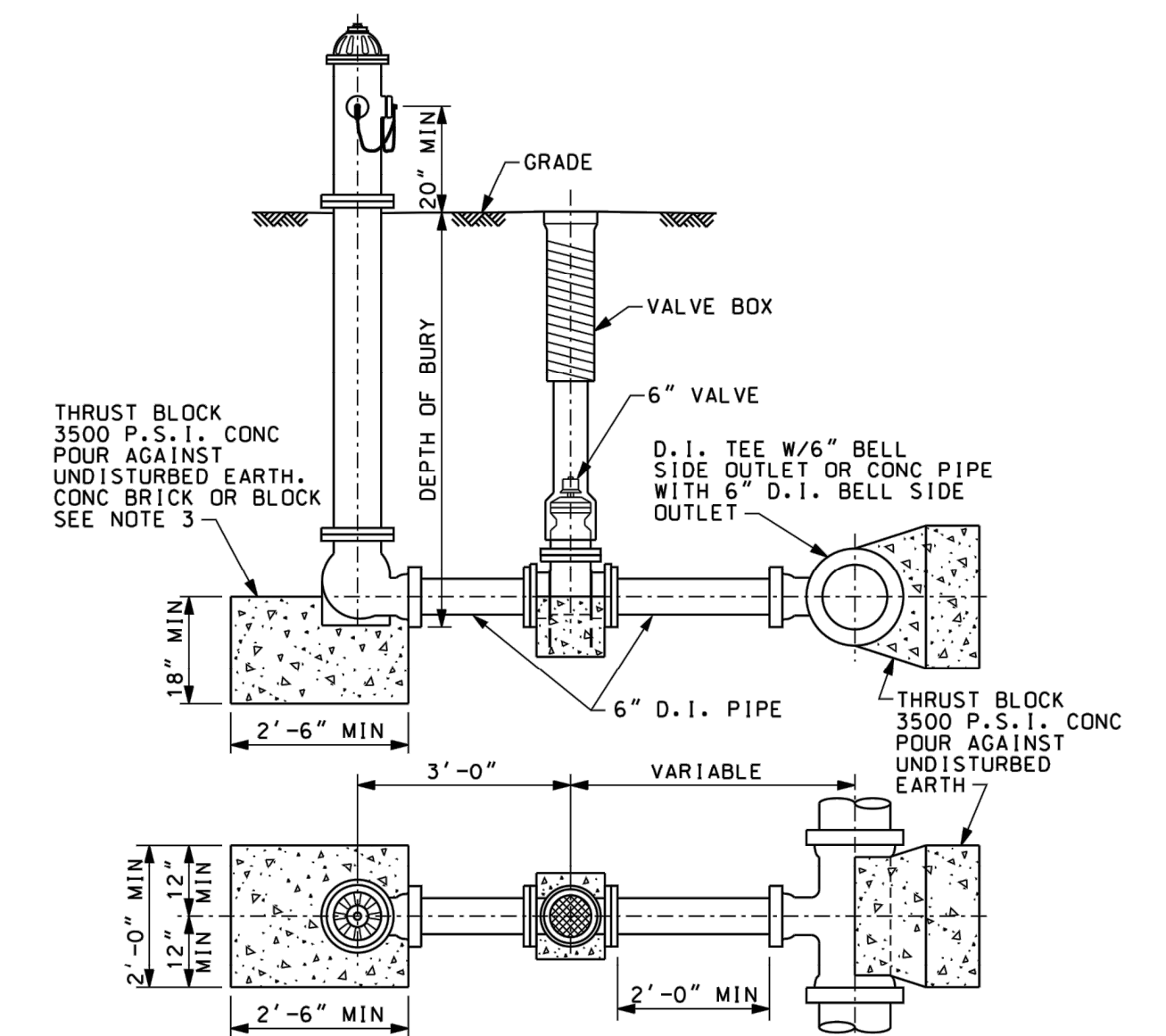
ANCHORAGE DETAILS FOR VERTICAL BENDS

NOTES:
1. INSTALL ADDITIONAL FITTINGS & SPIGOT PIPE AS NECESSARY BETWEEN WATER MAIN & VALVE BOX TO ADJUST FOR PROPER LOCATION AND GRADE OF HYDRANT. IF THE DISTANCE FROM THE MAIN TO THE HYDRANT VALVE EXCEEDS 5 FEET, THEN A 8-INCH TEE AND 8-INCH MAIN SHOULD BE UTILIZED FOLLOWED BY A 6-INCH BY 8-INCH REDUCER JUST PRIOR TO THE HYDRANT VALVE.
2. VERTICAL ANCHORAGES WILL BE REQUIRED ON ALL VERTICAL HYDRANT BENDS IN EXCESS OF 11 1/4".
3. WHERE HYDRANTS ARE INSTALLED ON EXISTING MAINS THAT ARE TO BE PLACED BACK INTO SERVICE IMMEDIATELY, PLACE CONCRETE BRICK OR BLOCK TO UNDISTURBED EARTH AND ENCASE WITH CONCRETE OR USE RESTRAINING GLANDS.

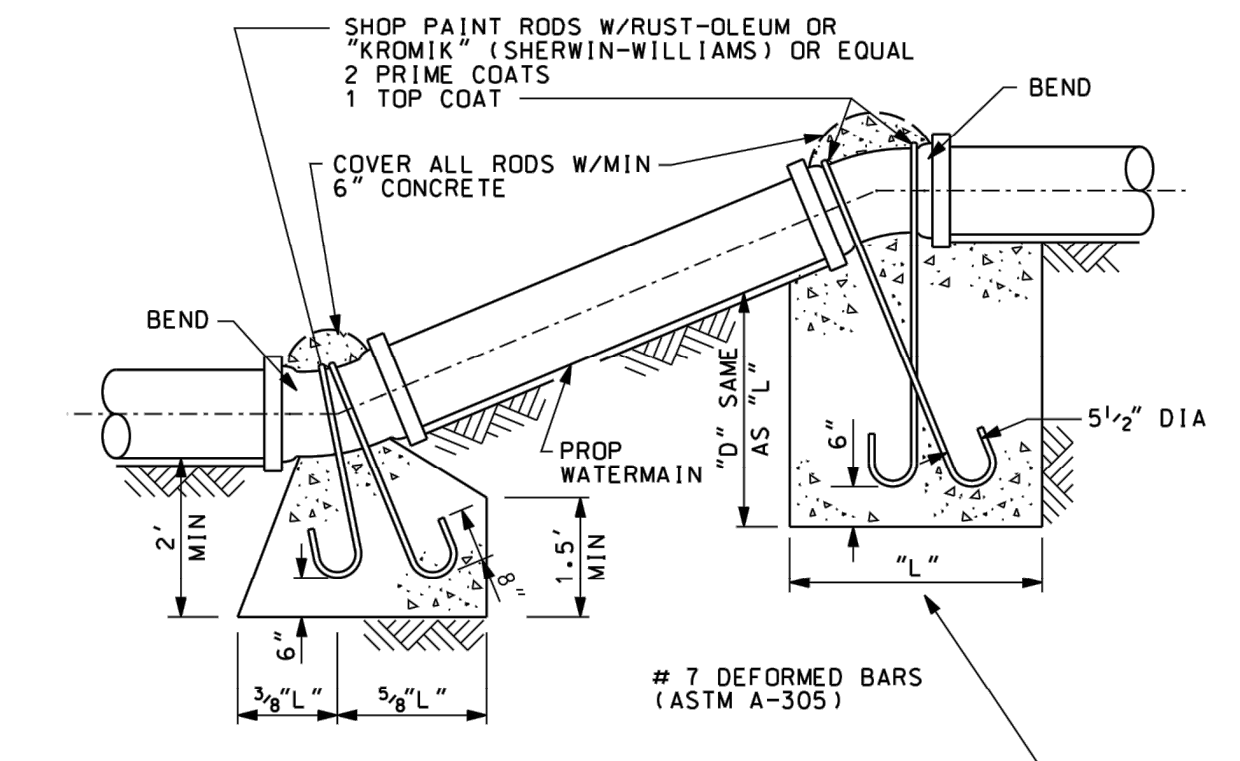


STANDARD FIRE HYDRANT ASSEMBLY CLOSE COUPLE TYPE

NOTES:
1. INSTALL ADDITIONAL FITTINGS, BENDS & SPIGOT PIPE AS NECESSARY BETWEEN WATER MAIN & VALVE BOX TO ADJUST FOR PROPER LOCATION AND GRADE OF HYDRANT. IF THE DISTANCE FROM THE MAIN TO THE HYDRANT VALVE EXCEEDS 5 FEET, THEN A 8-INCH TEE AND 8-INCH MAIN SHOULD BE UTILIZED FOLLOWED BY A 6-INCH BY 8-INCH REDUCER JUST PRIOR TO THE HYDRANT VALVE.
2. VERTICAL ANCHORAGES WILL BE REQUIRED ON ALL VERTICAL HYDRANT BENDS IN EXCESS OF 11 1/4".
3. WHERE HYDRANTS ARE INSTALLED ON EXISTING MAINS THAT ARE TO BE PLACED BACK INTO SERVICE IMMEDIATELY, PLACE CONCRETE BRICK OR BLOCK TO UNDISTURBED EARTH AND ENCASE WITH CONCRETE OR USE RESTRAINING GLANDS.

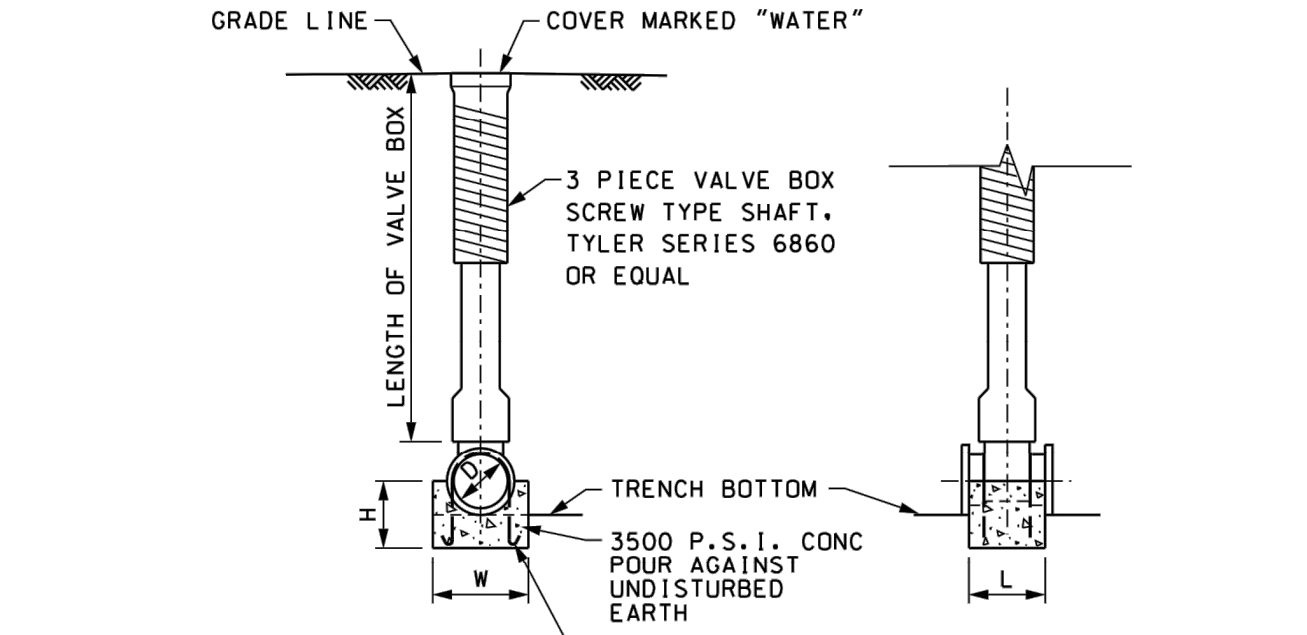


STANDARD FIRE HYDRANT ASSEMBLY T TYPE



NOTE: 4" MIN COVER ON ALL DITCH CROSSINGS. BENDS IF REQUIRED TO BE PLACED PER VERTICAL CONCRETE TO BE 3500 P.S.I.
BLOCK WIDTH TO BE 1.5' OUTSIDE EDGES OF DISTURBED EARTH (TUNNEL INTO TRENCH SIDES) MIN 6.0' WIDE

VERTICAL REACTION BLOCKING



SIZE OF PIPE	H	W	L
6"	6"	6"	6"
8"	8"	8"	8"
10"	10"	10"	10"
12"	12"	12"	12"

W = WIDTH OF TRENCH
L = LENGTH OF VALVE

VALVE BLOCK AND BOX DETAIL

FOR REFERENCE ONLY

- ▲ CITY AND COUNTY COMMENTS
- ▲ TOWNSHIP/MDOT COMMENTS
- ▲ 01.20.22 ISSUED FOR BID
- ▲ 03.11.22 ISSUED FOR CONSTRUCTION
- ▲
- ▲
- ▲
- ▲
- ▲
- ▲
- ▲

CONTRACT DATE: 01/01/19
BUILDING TYPE: ENDEAVOR 2.0
PLAN VERSION: MARCH 2022
BRAND DESIGNER: DAN DICKSON
SITE NUMBER: 315089
STORE NUMBER: 40164

TACO BELL
18708 TELEGRAPH RD
BROWNSTOWN, MI 48183



ENDEAVOR 2.0

BROWNSTOWN WATER DETAILS

C-507

DESIGN	ORIGINAL	INITIALS	DATE	DATE	REVISION
DRAFTING	ISSUED	MMC	8-20-96	2-26-03	REVISED
CHECKED	NOT VALID FOR CONST. UNLESS SIGNED AND DATED				
APPROVED					FINAL MEASURE

CLIENT CHARTER TOWNSHIP OF BROWNSTOWN
21313 TELEGRAPH ROAD
BROWNSTOWN, MI 48183
PHONE: (734) 675-4000 FAX (734) 675-2921

Wade-Trim
P.O. Box 10
25251 Northline Road, Taylor, MI 48180
314-947-9700 / 800-492-2864
FAX NO. 734-947-9726

STANDARD WATER MAIN DETAILS

SCALE	NONE
SHEET	OF
FILE	WM2
JOB	

LANDSCAPE NOTES & PLANTING SPECIFICATIONS

SCOPE OF WORK

- THIS WORK SHALL CONSIST OF PERFORMING CLEARING AND GRUBBING, SOIL PREPARATION, FINISH GRADING, PLANTING AND DRAINAGE, INCLUDING ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND ANY OTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT.
- QUANTITY TAKEOFF IS SUPPLIED FOR CONTRACTOR'S ASSISTANCE ONLY. CONTRACTOR IS RESPONSIBLE FOR SUPPLYING ALL PLANT MATERIALS AS PER PLAN.
- NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR WITHIN EASEMENT OR RIGHT-OF-WAY LIMITS.

PRESERVATION/PROTECTION (IF APPLICABLE)

- CONTRACTOR SHALL MAINTAIN AND PRESERVE TREES AND SHRUBS NOT BEING REMOVED, INCLUDING THEIR ROOTS. TREE PROTECTION FENCING SHALL BE USED AT THE DRIP LINE OF ALL TREES AND SHRUBS WITHIN 50 FEET OF CONSTRUCTION EXCEPT AS SHOWN ON PLAN. FENCING SHALL REMAIN IN PLACE UNTIL FINAL PLANT INSPECTION FOLLOWING CONSTRUCTION. MATERIALS SHALL NOT BE STOCKPILED WITHIN THIS DEFINED AREA AND VEHICLES AND OTHER EQUIPMENT SHALL BE OPERATED TO AVOID SOIL COMPACTION.
- FEEDER ROOTS SHOULD NOT BE CUT IN AN AREA EQUAL TO TWICE THE TREE CIRCUMFERENCE (MEASURED 6" ABOVE THE GROUND LINE IN INCHES) EXPRESSED IN FEET. (EXAMPLE: A CIRCUMFERENCE OF 10" WOULD HAVE A NO CUT ZONE OF 20 FEET IN ALL DIRECTIONS FROM THE TREE). THIS SHOULD APPLY TO UTILITY SERVICES, IF FEASIBLE. THE ONLY EXCEPTION TO THIS REQUIREMENT WILL BE THOSE SPECIFICALLY ALLOWED BY THE LANDSCAPE ARCHITECT, SPECIFICATIONS OR AS INDICATION ON THE PLANS.
- TREE TRUNKS AND EXPOSED ROOTS DAMAGED DURING EQUIPMENT OPERATIONS SHALL BE TREATED IN ACCORDANCE WITH THE ARBOR CULTURAL STANDARDS OF THE CITY.

PLANT MATERIALS

- GENERAL - ALL MATERIALS SHALL BE OF ITS KIND AVAILABLE AND SHALL HAVE BEEN GROWN IN A CLIMATE SIMILAR TO THAT ON SITE.
- PLANTS - ALL PLANTS SHALL BE HEALTHY, OF NORMAL GROWTH, WELL ROOTED, FREE FROM DISEASE AND INSECTS. QUALITY AND SIZE OF PLANT MATERIAL SHALL CONFORM TO ANSI Z60.1 AMERICAN STANDARDS FOR NURSERY STOCK.
- VARIETIES AND SIZES OF PLANTS SHALL BE AS SHOWN ON DRAWINGS.
- PLANTS SHALL BE IN A HEALTHY, VIGOROUS CONDITION, FREE OF DEAD OR BROKEN BRANCHES, SCARS THAT ARE NOT COMPLETELY HEALED, FROST CRACKS, DISFIGURING KNOTS, BROKEN OR ABRADED BARK, REDUNDANT LEADERS OR BRANCHES, OR ABERRATIONS OF ANY KIND. PLANTS SHALL NOT HAVE MULTIPLE LEADERS, UNLESS THIS IS THE NATURAL FORM.
- BALLED AND BURLAPPED (B&B) PLANTS SHALL BE DUG WITH A FIRM ROOT BALL OF NATURAL EARTH, OF A SIZE IN PROPORTION TO THE PLANT'S SIZE, AS MEASURED BY CALIPER, HEIGHT, OR SPREAD. BALLED AND BURLAPPED PLANTS SHALL BE HANDLED ONLY BY THE ROOT BALL, NOT BY THE TRUNK OR BRANCHES, AS THIS MAY BREAK OR LOOSEN THE ROOT BALL AND DAMAGE THE ROOT SYSTEM. CONTAINER PLANTS SHALL HAVE BEEN ESTABLISHED FOR A MINIMUM OF ONE FULL GROWING SEASON IN THEIR CONTAINERS BEFORE INSTALLATION. CONTAINER PLANTS SHALL BE HANDLED ONLY BY THE CONTAINER, NOT BY THE STEMS OR BRANCHES, AS THIS MAY PULL THE PLANT OUT OF THE CONTAINER AND BREAK OR LOOSEN THE ROOT BALL AND DAMAGE THE ROOT SYSTEM.
- PLANTS SHALL BE PROTECTED FROM DRYING OUT DURING SHIPPING WITH TARPULINS OR OTHER COVERINGS. PLANTS SHALL BE PROTECTED FROM DRYING OUT AFTER DELIVERY BY PLANTING IMMEDIATELY; IF THIS IS NOT POSSIBLE, THE ROOT BALL SHALL BE COVERED WITH PEAT MOSS OR EARTH, AND WATERED FREQUENTLY TO KEEP IT MOIST UNTIL PLANTING.
- DO NOT HANDLE, MOVE, BIND, TIE OR OTHERWISE TREAT PLANTS SO AS TO DAMAGE THE ROOT BALL, ROOTS, TRUNK, OR BRANCHES IN ANY WAY.

TOPSOIL

- TOPSOIL HAS BEEN (OR WILL BE) STOCKPILED FOR REUSE IN LANDSCAPE WORK. IF QUANTITY OF STOCKPILED TOPSOIL IS INSUFFICIENT, PROVIDE ADDITIONAL TOPSOIL AS REQUIRED TO COMPLETE LANDSCAPE WORK. IMPORTED TOPSOIL SHALL CONSIST OF LOOSE, FRIABLE, LOAMY TOPSOIL WITHOUT ADMIXTURE OF SUBSOIL OR REFUSE. ACCEPTABLE TOPSOIL SHALL CONTAIN NOT LESS THAN 3 PERCENT NOR MORE THAN 20 PERCENT ORGANIC MATTER.
- PLANTING BACKFILL FOR PARKING LOT ISLANDS SHALL CONSIST OF A HOMOGENEOUS MIXTURE OF 3 PARTS TOPSOIL TO ONE PART SPHAGNUM PEAT INSTALLED OVER A 6" THICKNESS OF NO. 57 AGGREGATE.

SOIL CONDITIONING

- OBTAIN LABORATORY ANALYSIS OF STOCKPILED AND IMPORTED TOPSOIL COMPLETE WITH RECOMMENDATIONS FOR SOIL AMENDMENT.
- BEFORE MIXING, CLEAN TOPSOIL OF ROOTS, PLANTS, SOD, STONES, CLAY LUMPS, AND OTHER EXTRANEEOUS MATERIALS HARMFUL OR TOXIC TO PLANT GROWTH.
- MIX SPECIFIED SOIL AMENDMENTS AND FERTILIZERS WITH TOPSOIL AT RATES SPECIFIED BY THE LAB REPORT. DELAY MIXING OF FERTILIZER IF PLANTING WILL NOT FOLLOW PLACING OF PLANTING SOIL WITHIN A FEW DAYS.
- FOR PLANTING BEDS AND LAWNS, MIX PLANTING SOIL EITHER PRIOR TO PLANTING OR APPLY ON SURFACE OF TOPSOIL AND MIX THOROUGHLY BEFORE PLANTING. MIX LIME WITH DRY SOIL PRIOR TO MIXING OF FERTILIZER.
- PREVENT LIME FROM CONTACTING ROOTS OF ACID-LOVING PLANTS.
- APPLY PHOSPHORIC ACID FERTILIZER (OTHER THAN THAT CONSTITUTING A PORTION OF COMPLETE FERTILIZERS) DIRECTLY TO SUBGRADE BEFORE APPLYING PLANTING SOIL AND TILLING.

PLANTING SOIL

- PLANTING SOIL MIX SHALL BE CLEAR OF ALL STONES AND DEBRIS 1" OR LARGER, AND CONSIST OF THE FOLLOWING: 25% ORGANIC COMPOST, 75% ACCEPTABLE TOPSOIL.

OTHER MATERIALS

- BED EDGING - EDGING SHALL BE 4" STEEL EDGING WITH THREE (3) METAL ANCHOR STAKES PER 20 FOOT SECTION. ALL MASS PLANTING BEDS SHALL HAVE EDGING PLACED BETWEEN MULCH AREA AND ANY ADJACENT TURF AREA.
- MULCH: ORGANIC MULCH FREE FROM DELETERIOUS MATERIALS AND SUITABLE FOR TOP DRESSING OF TREES, SHRUBS, OR PLANTS AND CONSISTING OF THE FOLLOWING:
 - RIVER ROCK MULCH AREA: AGGREGATE MULCH, 3/4"-2" IN SIZE, WASHED AND ROUNDED, SHALL BE INSTALLED WITHIN THE RIVER ROCK MULCH AREA PER THE PLAN. RIVER ROCK MULCH SHALL BE INSTALLED AT 3" INCHES DEPTH.
 - NON-DRYED, DOUBLE SHREDDED HARDWOOD SHALL BE INSTALLED IN ALL OTHER LANDSCAPE BEDS OUTSIDE OF THE RIVER ROCK MULCH AREA AT A DEPTH OF 3 INCHES.

GENERAL WORK PROCEDURES

- LANDSCAPE WORK SHALL BE ACCORDING TO THE WORKMANLIKE STANDARDS ESTABLISHED FOR LANDSCAPE CONSTRUCTION AND PLANTING IN THE MICHIGAN STANDARDIZED LANDSCAPE SPECIFICATIONS (ASLA) AND ANY LOCAL LANDSCAPE ORDINANCES.
- CONTRACTOR SHALL OBTAIN A COPY OF LOCAL ORDINANCES REGARDING ACCEPTABLE PLANT AND PLANTING DETAILS AND ABIDE BY THOSE ORDINANCES AND DETAILS.
- ENGINEER RESERVES THE RIGHT TO REJECT ALL PLANT MATERIAL DEEMED NOT ACCEPTABLE.
- ANY PROPOSED PLANT SUBSTITUTIONS SHALL BE EQUIVALENT IN FORM, HABIT, STRUCTURE, BRANCHING AND LEAF TYPE AND MUST BE ISSUED TO THE LANDSCAPE ARCHITECT FOR APPROVAL, IN WRITING, PRIOR TO INSTALLATION.

WEEDING

- BEFORE AND DURING PRELIMINARY GRADING AND FINISH GRADING, ALL WEEDS AND GRASSES SHALL BE DUG OUT BY THE ROOTS AND DISPOSED OF AT THE CONTRACTOR'S EXPENSE.

PLANTING

- POSITION TREES AND SHRUBS AT THEIR INTENDED LOCATIONS AS PER THE PLANS AND SECURE THE APPROVAL OF THE OWNER BEFORE EXCAVATING PITS, MAKING NECESSARY ADJUSTMENTS AS DIRECTED.
- PLANTING PITS SHALL BE AS PER DETAILS.
- PREPARED SOIL SHALL BE TAMPED FIRMLY AT BOTTOM OF PIT, FILL WITH PLANTING SOIL AROUND BALL OF PLANT. COMPLETE BACKFILLING AND WATER THOROUGHLY.
- EACH TREE AND SHRUB SHALL RECEIVE THE LANDSCAPER'S BIONUTRITION (3-0-3) GRANULAR WITH MYCORRHIZAL TECHNOLOGY FERTILIZER OR APPROVED OTHER. APPLY FERTILIZER PER MANUFACTURER'S SPECIFICATIONS.
- WATER IMMEDIATELY AFTER PLANTING. WATER SHALL BE APPLIED TO EACH TREE AND SHRUB IN SUCH MANNER AS NOT TO DISTURB BACKFILL AND TO THE EXTENT THAT ALL MATERIALS IN THE PLANTING HOLE ARE THOROUGHLY SATURATED.
- INSTALL BED EDGING AND MULCH PER MATERIALS SPECIFICATION AND DETAILS.
- REMOVE ALL SALES TAGS, STRINGS, STRAPS, WIRE, ROPE OR OTHER MATERIALS THAT MAY INHIBIT PLANT GROWTH BOTH ABOVE AND BELOW THE SURFACE OF THE SOIL.
- REMOVE ANY BROKEN, SUCKERING, DISEASED, CRISSCROSSED OR AESTHETICALLY DISPLEASEING BRANCHES BACK TO LIVE LEADER OR SIDE LATERAL WITH A FLUSH CUT.

FINISH GRADING

- ALL AREAS WILL BE GRADED BY THE CONTRACTOR TO SUBSTANTIALLY PLUS/MINUS 0.1 FOOT OF FINISH GRADE.
- ALL LAWN AND PLANTING AREAS SHALL BE GRADED TO A SMOOTH, EVEN, UNIFORM PLANE WITH NO ABRUPT CHANGE OF SURFACE. SOIL AREAS ADJACENT TO THE BUILDINGS SHALL SLOPE AWAY FROM THE BUILDINGS.
- ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW FREE FLOW OF SURFACE WATER.
- PARKING LOT ISLAND SHALL BE BACKFILLED AS PART OF THIS CONTRACT.

GROUND COVER

- SPACING AND VARIETY OF GROUND COVER SHALL BE AS SHOWN ON DRAWINGS.
- MULCH GROUND COVER WITH 2" THICKNESS OF SPHAGNUM PEAT.
- IMMEDIATELY AFTER PLANTING GROUND COVER, CONTRACTOR SHALL THOROUGHLY WATER GROUND COVER.
- ALL GROUND COVER AREAS SHALL BE TREATED WITH A PRE-EMERGENT BEFORE FINAL LANDSCAPE INSPECTION. GROUND COVER AREAS SHALL BE WEEDED PRIOR TO APPLYING PRE-EMERGENT. PRE-EMERGENT TO BE APPLIED AS PER MANUFACTURER'S RECOMMENDATION.

GUARANTEE

- CONTRACTOR SHALL GUARANTEE ALL PLANTS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF PROJECT ACCEPTANCE BY THE OWNER.

CLEANUP

- UPON THE COMPLETION OF ALL PLANTING WORK AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL MATERIAL, EQUIPMENT, AND DEBRIS RESULTING FROM HIS WORK. AN "ACCEPTABLE CONDITION" SHALL BE AS DEFINED AND APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE.

IRRIGATION

- CONTRACTOR SHALL PROVIDE & INSTALL AN IRRIGATION SYSTEM TO PROVIDE 100% COVERAGE OF THE SITE. AREAS WITHIN 5 FEET OF BUILDING WALLS SHALL BE IRRIGATED BY DRIP IRRIGATION OR SIMILAR. CONTRACTOR SHALL ENSURE BUILDING WALLS AND WINDOWS WILL NOT BE DAMAGED OR STAINED BY IMPROPER IRRIGATION INSTALLATION OR POOR SELECTION OF FIXTURES. SYSTEM SHALL INCLUDE ALL APPURTENANCES & BE APPROVED BY OWNER.
- IRRIGATION CONTRACTOR SHALL PROVIDE A METHOD FOR WINTERIZATION. WINTERIZATION SHALL BE PERFORMED BY CONTRACTOR UPON COMPLETION IF SYSTEM IS INSTALLED BETWEEN NOVEMBER 1 AND MARCH 31.

MAINTENANCE

(MAINTENANCE PERIOD TO COMMENCE AFTER FINAL INSPECTION.)

- MAINTENANCE PERIOD FOR THIS CONTRACT SHALL BE 90 CALENDAR DAYS COMMENCING AFTER FINAL INSPECTION OF CONSTRUCTION.
- MAINTAIN TREES, SHRUBS AND OTHER PLANTS BY PRUNING, CULTIVATING AND WEEDING AS REQUIRED FOR HEALTHY GROWTH. RESTORE PLANTING SAUCERS, RESET TREES AND SHRUBS TO PROPER GRADES OR VERTICAL POSITION AS REQUIRED.
- MAINTAIN LAWNS BY WATERING, MOWING, TRIMMING, AND OTHER OPERATIONS SUCH AS ROLLING, REGRADING AND REPLANTING AS REQUIRED TO ESTABLISH A SMOOTH, ACCEPTABLE LAWN, FREE OF ERODED OR BARE AREAS.
- MAINTAIN THE LANDSCAPING BY KEEPING ALL PLANTS DISEASE-FREE AND PLANTING BEDS GROOMED, EXCEPT IN NATURALLY OCCURRING VEGETATION AREAS.
- REPLACE ANY REQUIRED PLANTING(S), WHICH SEVERELY DECLINE OR DIE AFTER THE DATE OF PLANTING. SUCH REPLACEMENT SHALL OCCUR DURING THE NEXT APPROPRIATE PLANTING SEASON.

SODDING

- SOD SHALL BE FIRST GRADE CERTIFIED BLENDS OF THE FOLLOWING SPECIES PER HARDINESS ZONE CONTAINING NOT MORE THAN 30 PERCENT OF OTHER GRASSES AND CLOVERS, AND FREE FROM ALL NOXIOUS WEEDS.
 - ZONES 3, 4 & 5: APPROVED BLUE GRASS BLEND
 - ZONE 6: APPROVED FESCUE BLEND
 - ZONES 7 & 8: APPROVED BERMUDA BLEND
 - ZONES 9 & 10: APPROVED ST AUGUSTINE FLORATAM BLEND
- SOD SHALL BE RECENTLY MOWED TO A HEIGHT OF NOT LESS THAN 3 INCHES. IT SHALL BE CUT INTO STRIPS OF NOT LESS THAN 3 FEET AND NOT OVER 6 FT. WITH A UNIFORM WIDTH OF NOT OVER 24 INCHES.
- SOD SHALL BE CUT TO A DEPTH EQUAL TO THE GROWTH OF THE FIBROUS ROOTS BUT IN NO CASE LESS THAN 1 INCH.
- SOD SHALL BE DELIVERED TO THE JOB WITHIN 24 HOURS AFTER BEING CUT AND SHALL BE INSTALLED WITHIN 48 HOURS AFTER BEING CUT.
- BEFORE SOD IS PLACED, THE SOD BED WILL HAVE BEEN EXCAVATED TO SUCH A DEPTH THAT WHEN THE SOD IS IN PLACE THE TOP OF THE SOD WILL BE FLUSH WITH THE SURROUNDING GRADE.
- NO SOD SHALL BE PLACED WHEN THE TEMPERATURE IS BELOW 32 DEGREES F. NO FROZEN SOD SHALL BE PLACED NOR SHALL ANY SOD BE PLACED ON FROZEN SOIL. WHEN SOD IS PLACED BETWEEN THE DATES OF JUNE 1ST AND OCTOBER 15TH, IT SHALL BE COVERED IMMEDIATELY WITH A STRAW MULCH 1 INCH THICK (LOOSE MEASUREMENT).
- AFTER LAYING, THE SOD SHALL BE WATERED THOROUGHLY AND TAMPED WITH APPROVED SOD TAMPERS SUFFICIENTLY TO BRING THE SOD INTO CLOSE CONTACT WITH THE SOD BED AND INSURE TIGHT JOINTS BETWEEN THE SECTIONS OR STRIPS.
- THE CONTRACTOR SHALL KEEP ALL SODDED AREAS INCLUDING SUBGRADE, THOROUGHLY MOIST FOR 30 DAYS AFTER SODDING.
- THE CONTRACTOR SHALL REPAIR ANY AREAS DAMAGED FOLLOWING INSTALLATION AS DIRECTED BY THE ENGINEER. SOD SHALL BE IN PLACE AT LEAST 30 DAYS BEFORE FINAL ACCEPTANCE.

SEEDING

- GRASS SEED SHALL BE FRESH, CLEAN, DRY, NEW-CROP SEED COMPLYING WITH THE ASSOCIATION OF OFFICIAL SEED ANALYSTS' "RULES FOR TESTING SEEDS" FOR PURITY AND GERMINATION TOLERANCES.
- ALL AREAS TO BE SEEDED SHALL RECEIVE NO LESS THAN FIVE POUNDS OF SEED PER ONE THOUSAND SQUARE FEET. APPLY SEED AND PROTECT WITH STRAW MULCH AS REQUIRED FOR NEW LAWNS. GRASS SEED MIX SHALL CONSIST OF THE FOLLOWING:

PROPORTION	NAME	MIN. % GERM.	MIN. % PURE SEED	MAX. % WEED SEED
70%	TALL FESCUE (FESTUCA ARUNDINACEA)	80	85	0.50
20%	KENTUCKY BLUEGRASS (POA PRATENSIS)	85	98	0.50
10%	PERENNIAL RYE GRASS (LOLIUM PERENNE)	90	98	0.50

DETENTION BASIN SEEDING

- GRASS SEED SHALL BE FRESH, CLEAN, DRY, NEW-CROP SEED COMPLYING WITH THE ASSOCIATION OF OFFICIAL SEED ANALYSTS' "RULES FOR TESTING SEEDS" FOR PURITY AND GERMINATION TOLERANCES.
- ALL AREAS TO BE SEEDED SHALL RECEIVE NO LESS THAN FIVE POUNDS OF SEED PER ONE THOUSAND SQUARE FEET. APPLY SEED AND PROTECT WITH STRAW MULCH AS REQUIRED FOR NEW LAWNS. GRASS SEED MIX SHALL CONSIST OF THE FOLLOWING:

PROPORTION	NAME	MIN. % GERM.	MIN. % PURE SEED	MAX. % WEED SEED
30%	KENTUCKY BLUEGRASS (POA PRATENSIS)	80	85	0.50
40%	KENTUCKY 31 FESCUE (FESTUCA ARUNDINACEA VAR. KY 31)	85	98	0.50
30%	PERENNIAL RYE GRASS (LOLIUM PERENNE)	90	98	0.50

PLANTING SCHEDULE

- ALL PLANTING IS RECOMMENDED TO BE DONE WITHIN THE FOLLOWING DATES. WHEN PLANTING OUTSIDE THESE DATES, WRITTEN DOCUMENTATION SHALL BE PROVIDED THAT SURVIVAL OR REPLACEMENT WILL BE ENSURED. NO PLANTING SHALL BE DONE IN FROZEN SOIL.

NORMAL PLANTING SEASONS	SPRING	FALL
ALL TREES AND SHRUBS	MARCH 15-MAY 15	OCTOBER 1-DECEMBER 1
EVERGREENS	APRIL 1-MAY 15	OCTOBER 1-NOVEMBER 15
GROUNDCOVERS	APRIL 1-JUNE 1	WHEN SOD IS WORKABLE
SEED AND MULCH	APRIL 1-MAY 15	OCTOBER 1-NOVEMBER 15

GENERAL NOTE

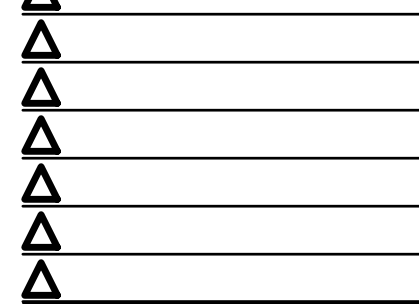
- ALL AREAS DISTURBED BY CONSTRUCTION THAT ARE WITHIN THE RIGHT-OF-WAY SHALL BE FINE GRADED TO MAINTAIN POSITIVE DRAINAGE, HAVE A 4" LAYER OF TOPSOIL APPLIED AND BE SEEDED ACCORDING TO SPECIFICATIONS ON THIS SHEET.

▲ CITY AND COUNTY COMMENTS

▲ TOWNSHIP/MDOT COMMENTS

▲ 01.20.22 ISSUED FOR BID

▲ 03.11.22 ISSUED FOR CONSTRUCTION



CONTRACT DATE: 01/01/19

BUILDING TYPE: ENDEAVOR 2.0

PLAN VERSION: MARCH 2022

BRAND DESIGNER: DAN DICKSON

SITE NUMBER: 315089

STORE NUMBER: 40164

TACO BELL

18708 TELEGRAPH RD
BROWNSTOWN, MI 48183



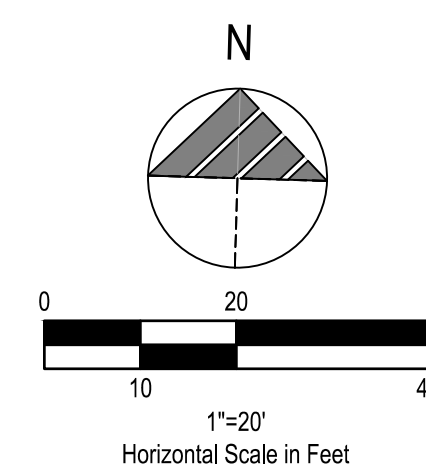
ENDEAVOR 2.0

LANDSCAPE NOTES

L-001

PLANT LIST

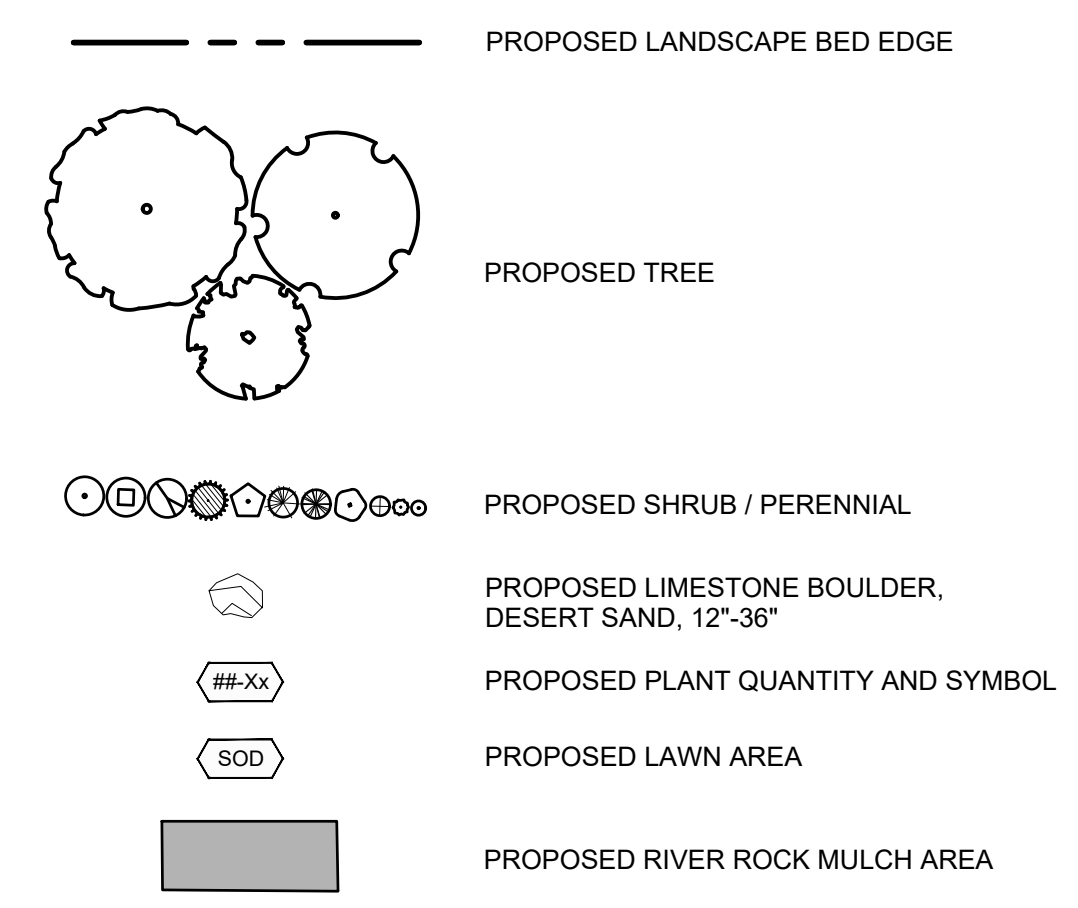
Symbol	Botanical Name	Common Name	Qty.	Min. Size	Condition	Remarks
Bx	Buxus 'Green Velvet'	Green Velvet Boxwood	29	24" H Min.	B&B	3' o/c
Gb	Ginkgo biloba 'Princeton Sentry'	Princeton Sentry Ginkgo	11	2.5" Cal.	B&B	Specimen
Gt	Gleditsia triacanthos f. inermis 'Skycole'	Skyline Thornless Honeylocust	11	2.5" Cal.	B&B	Specimen
Fg	Festuca glauca	Blue Fescue	24	No. 2	Cont.	Per Plan
Hh	Hemerocallis 'Happy Returns'	Happy Returns Daylily	85	No. 1	Cont.	1.5' o/c
Jc	Juniperus chinensis 'Sea Green'	Sea Green Juniper	24	24" H Min.	B&B	4' o/c
Js	Juniperus scopulorum 'Wichita Blue'	Wichita Blue Juniper	2	5' H	B&B	5' o/c
Ma	Malus 'JFS KW213MX' P.A.F.	Raspberry Spear Crabapple	12	2" Cal.	B&B	Specimen
Pf	Potentilla fruticosa 'Abbotswood'	Abbotswood Potentilla	52	24" H Min.	Cont.	3' o/c
Ra	Rhus aromatica 'Gro-Low'	Gro-Low Fragrant Sumac	28	18" H, No. 3	Cont.	4.5' o/c
Sj	Spiraea japonica 'Double Play' 'Candy Corn'	Double Play Candy Corn Spirea	32	No. 3	Cont.	2' o/c
Te	Thuja occidentalis 'Smaragd'	Emerald Arborvitae	11	5' H	B&B	4' o/c
Tr	Thuja occidentalis 'Rheingold'	Rheingold Arborvitae	10	24" H Min.	B&B	3' o/c
Yf	Yucca filamentosa 'Color Guard'	Color Guard Yucca	7	No. 5	Cont.	Per Plan



LANDSCAPE NOTES

- MULCH PER LANDSCAPE SPECIFICATIONS.
- ALL DISTURBED AREAS NOT TO BE PAVED OR MULCHED SHALL BE SODDED PER SPECIFICATIONS.
- ALL DISTURBED AREAS WITHIN THE R.O.W. NOT TO BE PAVED, SHALL BE SEEDED PER THE SPECIFICATIONS.

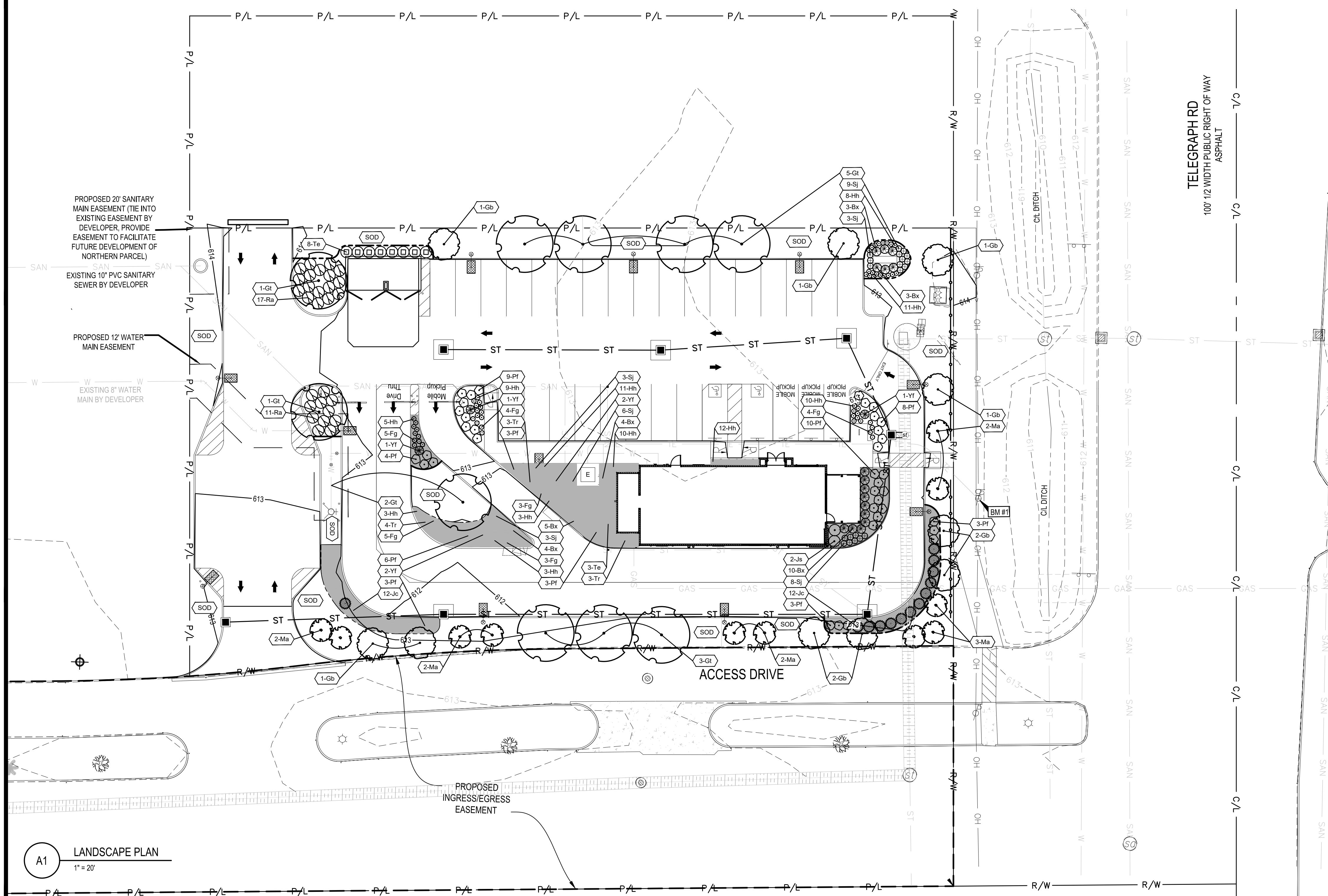
LANDSCAPE LEGEND



LANDSCAPE CALCULATIONS

PARKING LOT LANDSCAPING CALCULATION: 872 SF			GREENBELT CALCULATION: EAST		
	REQUIRED	PROVIDED	REQUIRED	PROVIDED	
CANOPY TREES	9	9	CANOPY TREES	4	4
			ORNAMENTAL TREES	4	4
			SHRUBS / FENCE	24 OR FENCE	FENCE

GREENBELT CALCULATION: SOUTH		
	REQUIRED	PROVIDED
CANOPY TREES	7	7
ORNAMENTAL TREES	7	7
SHRUBS	42	42



A1 LANDSCAPE PLAN
1" = 20'



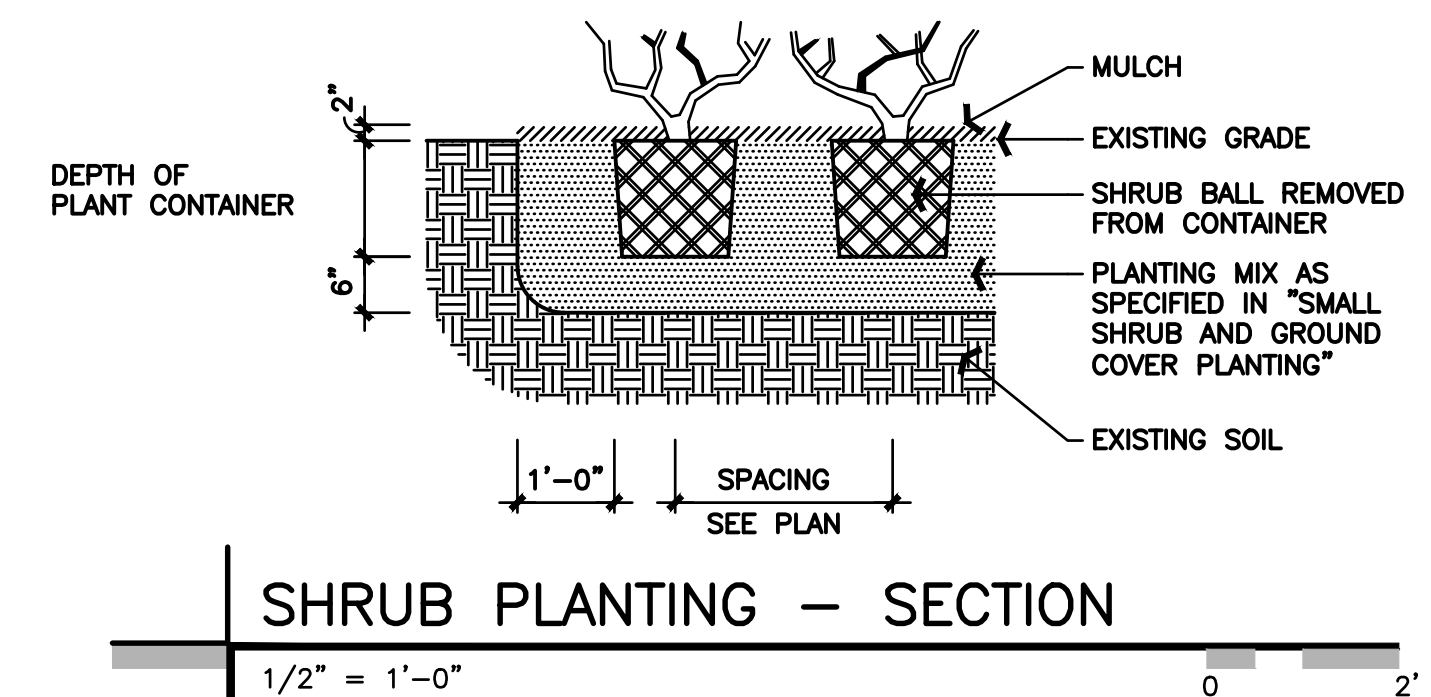
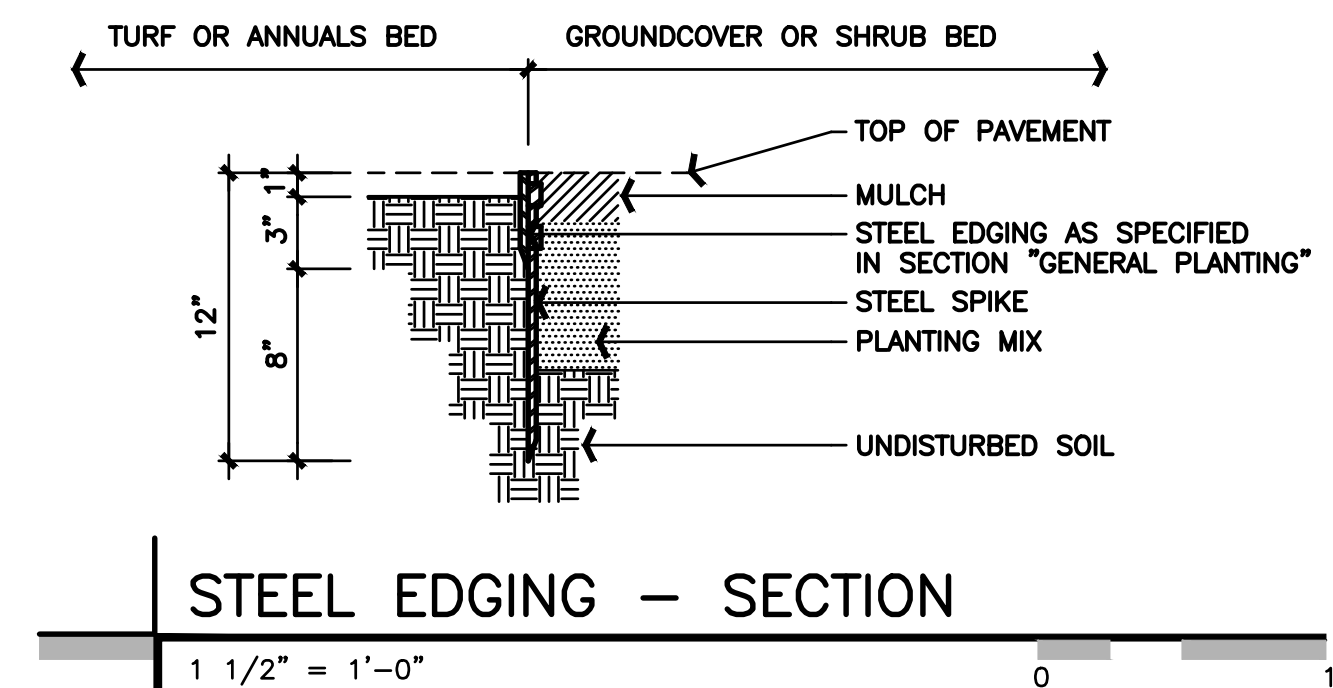
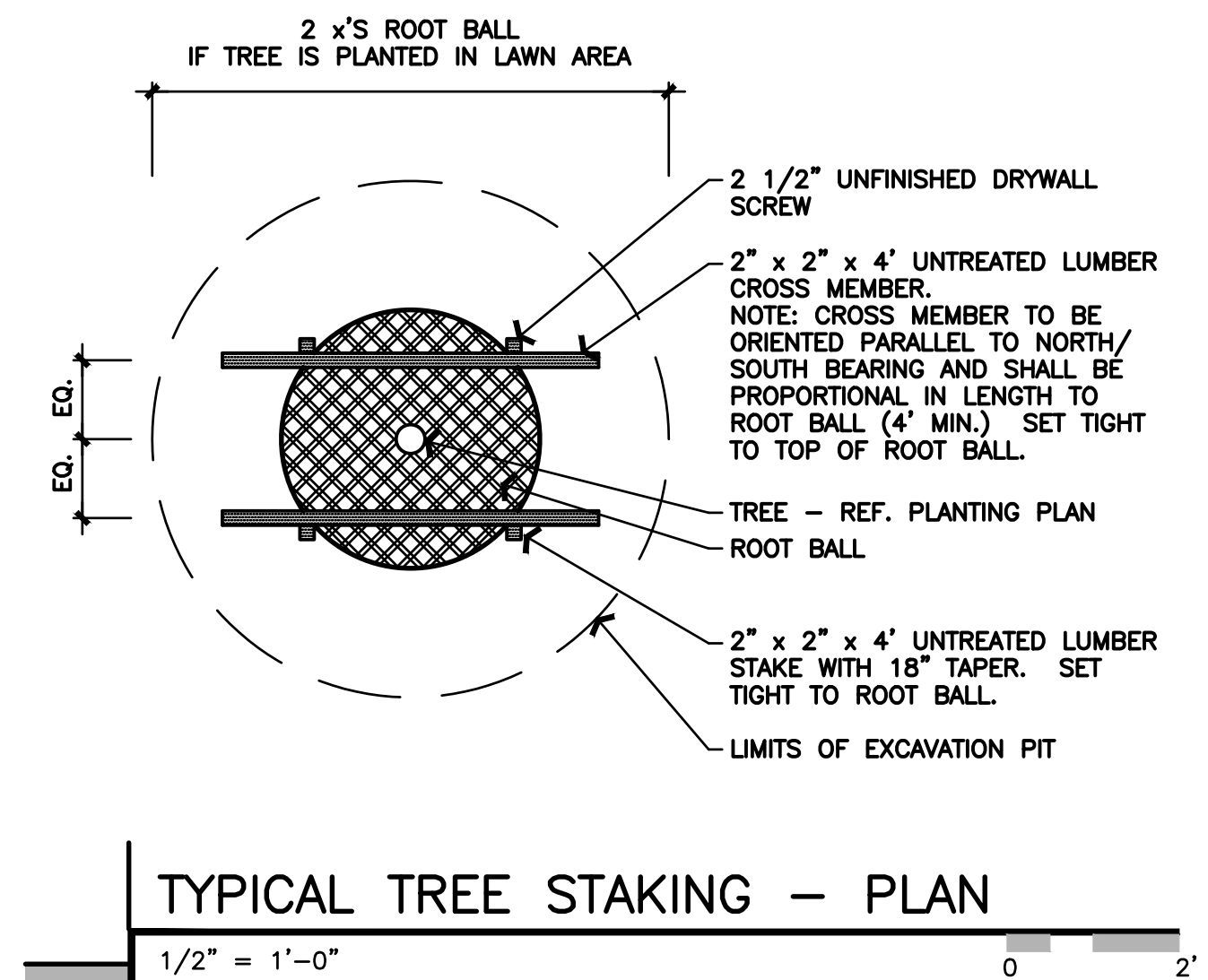
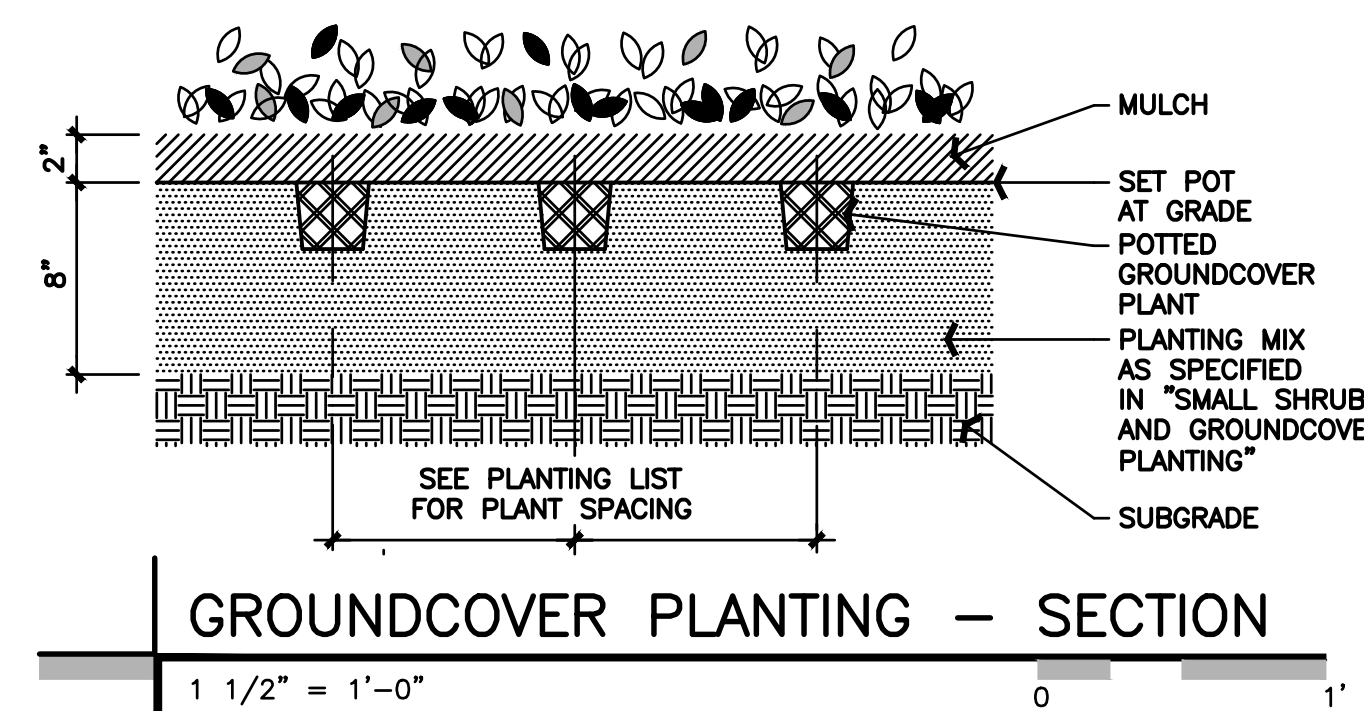
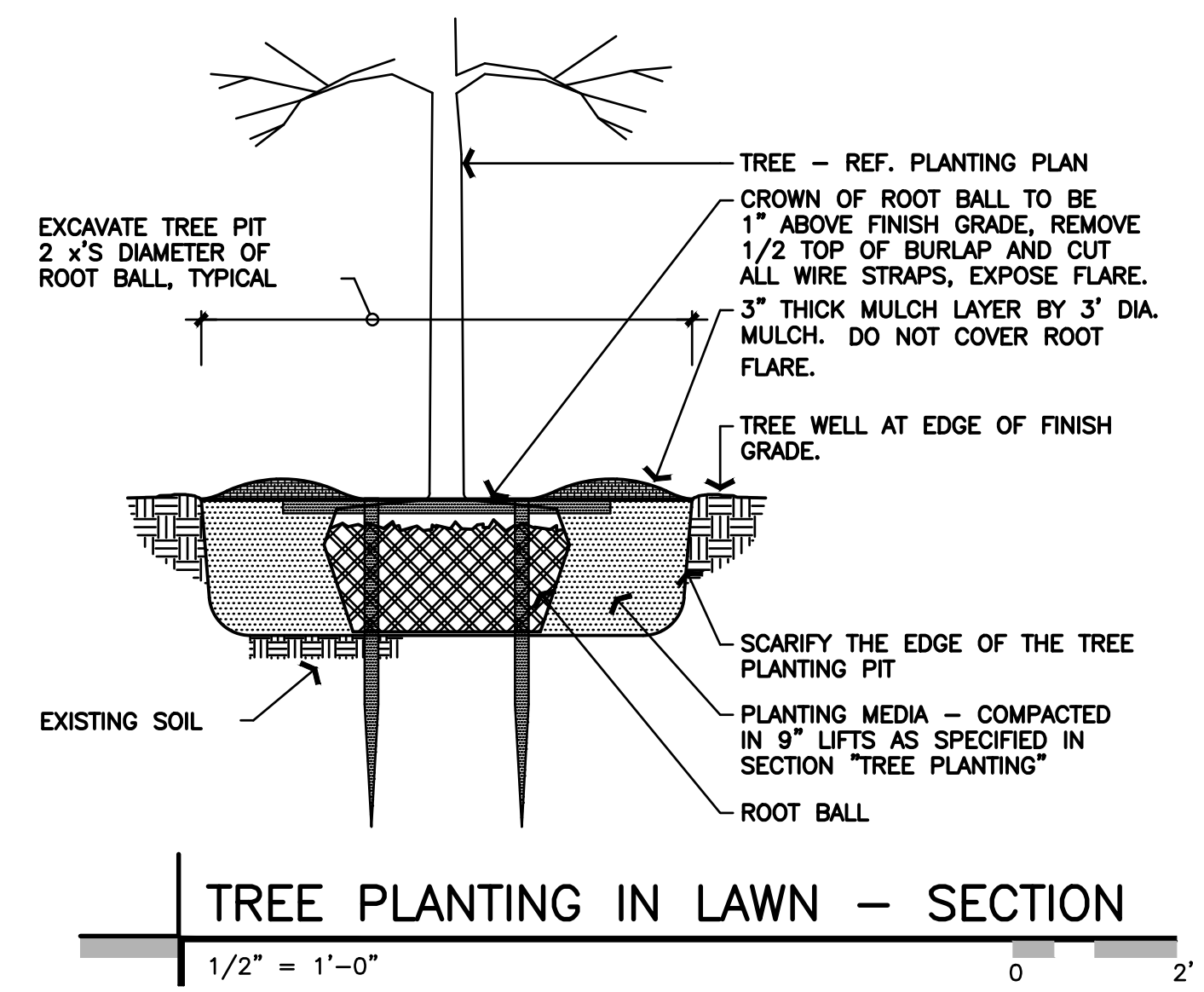
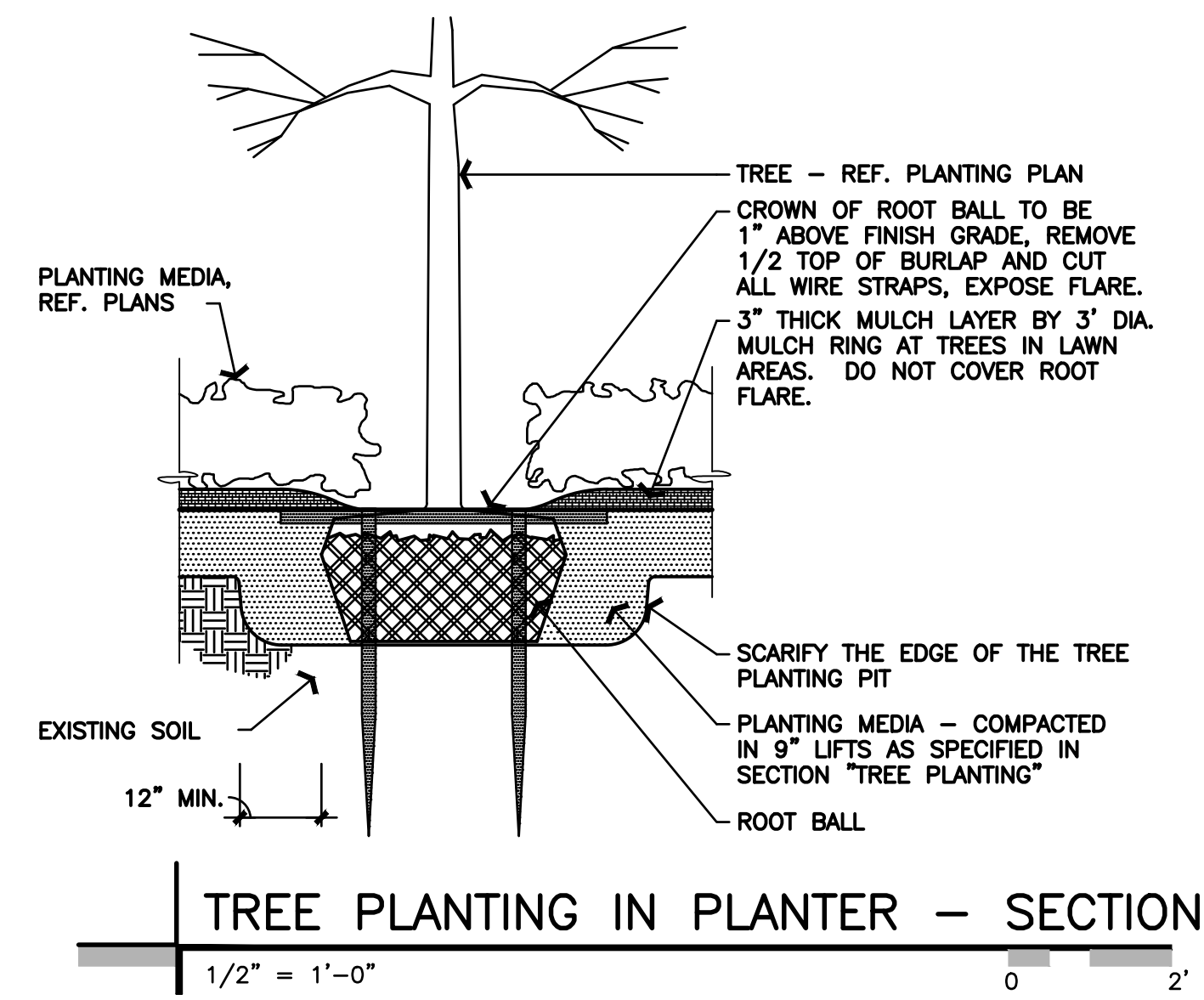
- ▲ CITY AND COUNTY COMMENTS
 - ▲ TOWNSHIP/MDOT COMMENTS
 - ▲ 01.20.22 ISSUED FOR BID
 - ▲ 03.11.22 ISSUED FOR CONSTRUCTION
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- CONTRACT DATE: 01/01/19
 BUILDING TYPE: ENDEAVOR 2.0
 PLAN VERSION: MARCH 2022
 BRAND DESIGNER: DAN DICKSON
 SITE NUMBER: 315089
 STORE NUMBER: 40164

TACO BELL
 18708 TELEGRAPH RD
 BROWNSTOWN, MI 48183



LANDSCAPE PLAN

L-101



- ▲ CITY AND COUNTY COMMENTS
- ▲ TOWNSHIP/MDOT COMMENTS
- ▲ 01.20.22 ISSUED FOR BID
- ▲ 03.11.22 ISSUED FOR CONSTRUCTION
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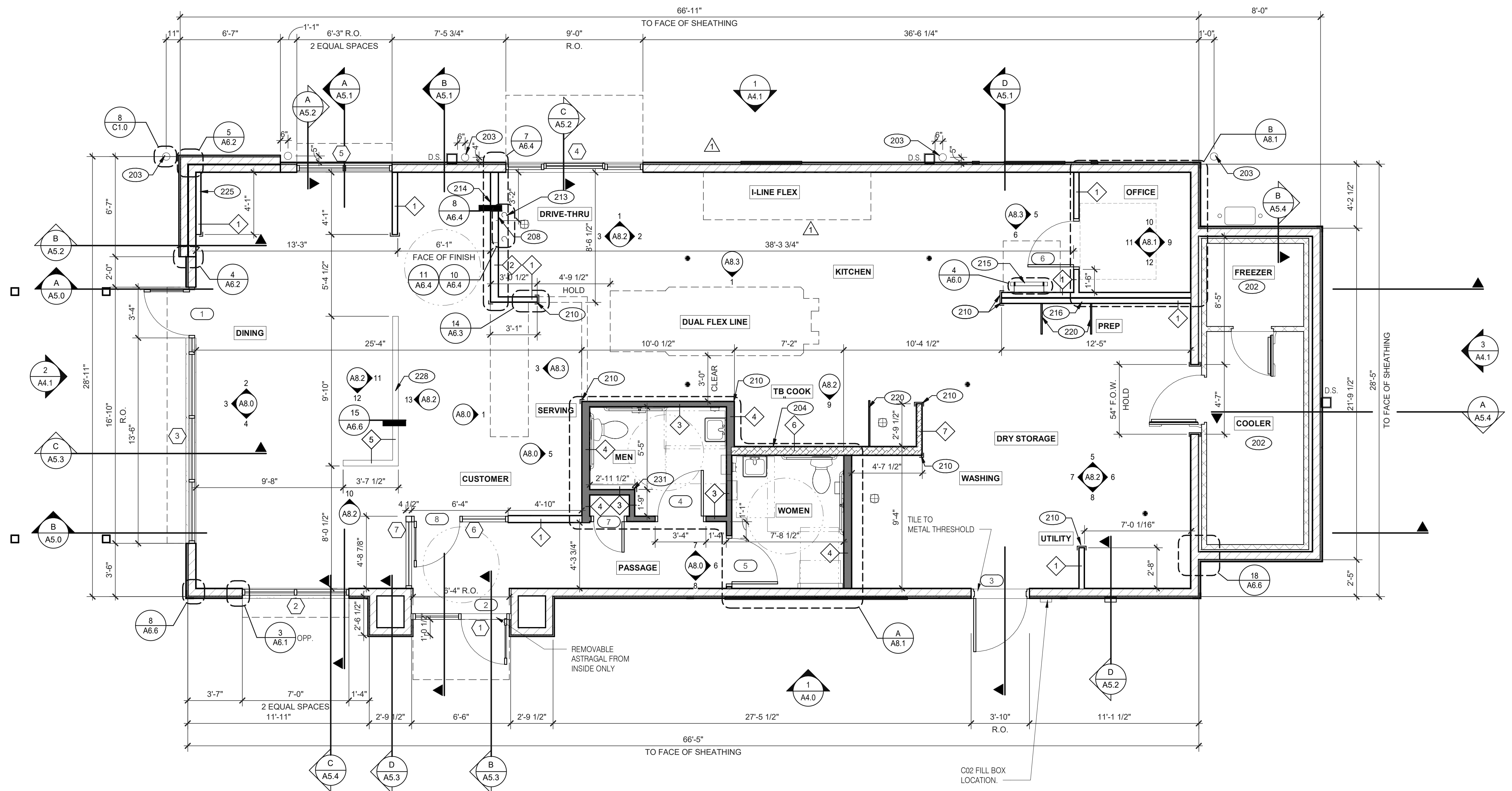
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BUILDING TYPE: ENDEAVOR 2.0
PLAN VERSION: MARCH 2022
BRAND DESIGNER: DAN DICKSON
SITE NUMBER: 315089
STORE NUMBER: 40164

TACO BELL
18708 TELEGRAPH RD
BROWNSTOWN, MI 48183

TACO BELL
ENDEAVOR 2.0

LANDSCAPE DETAILS

L-501



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

DATE	REMARKS
07.21.21	Issued for Permit
09.17.21	Health Comments
03.11.22	Issued for Construction

CONTRACT DATE: 06.22.21
 BUILDING TYPE: END, MED20
 PLAN VERSION: MARCH 2021
 BRAND DESIGNER: DICKSON
 SITE NUMBER: 315089
 STORE NUMBER: 40164
 PA/PM: SM
 DRAWN BY.: RS
 JOB NO.: 2019088.31

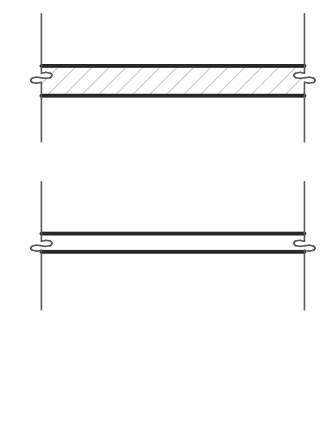
TACO BELL
 18708 TELEGRAPH ROAD
 BROWNSTOWN, MI 48183



ENDEAVOR 2.0 FLOOR PLAN

A1.0

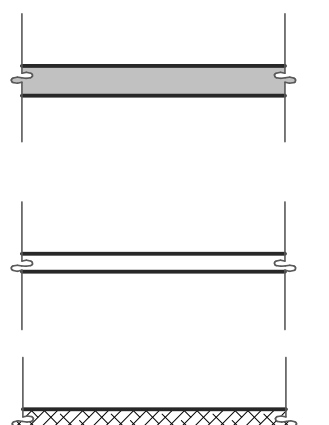
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TYPICAL EXTERIOR WALL:
 2X6 WD STUDS AT 16" O.C. W/ SHEATHING AS SCHEDULED (SEE STRUCT. DWGS.) AND R-19 KRAFT-FACED FIBERGLASS BATT INSULATION U.O.N. GC SHALL PROVIDE 2 LAYERS OF GRADE 'D' 60 lb BUILDING PAPER.

TYPICAL INTERIOR WALL:
 WD STUDS AT 16" O.C. AS INDICATED

1 2X4 WOOD STUDS
 2 2X6 WOOD STUDS



INTERIOR SOUND-RATED WALL:
 TYPICAL INTERIOR WALL W/ 3-1/2" UNFACED FIBERGLASS BATT INSULATION.

3 2X4 WOOD STUDS 4 2X6 WOOD STUDS

LOW WALL:
 2X4 WD STUDS AT 16" O.C. AS SCHEDULED (SEE DETAIL 15/A6.6)

5 2X6 WOOD STUDS

HOOD WALL:
 INTERIOR NON-COMBUSTIBLE WALL WITH 20 GA. S.S. PANEL BEHIND HOOD. EXTEND MIN. 18" BEYOND END OF HOOD. M. STUD FRAMING. REFER TO DETAIL 2/M3.0 FOR EXTENT OF S.S. PANEL.

6 6" METAL STUD 7 3 5/8" METAL STUD

DASHED LINE INDICATES INTERIOR SUBSTRATE LOCATION.

WALL HEIGHTS:
 ALL INTERIOR NON-BEARING WALLS GO TO BOTTOM OF TRUSS, U.O.N. REFER TO STRUCTURE.

WALL SUBSTRATES:
 - DINING ROOM:
 1/2" GYPSUM WALLBOARD FROM FLOOR SLAB TO 6" ABOVE CEILING HEIGHT U.O.N. SEE 6 & 8/A6.3 (NOTE: THE CEMENT BOARD SPECIFICATION IS DESIGNED TO ALLOW THE G.C. FLEXIBILITY.)
 - KITCHEN WALLS AND DINING ROOM CLOSET:
 1/2" CEMENT WALLBOARD FROM T.O. SLAB TO 12" A.F.F. AT 12" A.F.F., USE 1/2" CDX PLYWOOD W/FRP SURFACE FINISH TO 6" ABOVE CEILING HEIGHT U.O.N. IF DOUBLE SIDE SHEAR WALL PLYWOOD IS SPECIFIED THE PLYWOOD SHALL BE CONTINUOUS FROM SILL PLATE TO TOP PLATE. SEE 4/A6.3.
 - RESTROOM WALLS:
 5/8" CEMENT WALLBOARD FROM T.O. SLAB OR T.O. CONCRETE CURB TO 48" A.F.F., WITH 5/8" HI-IMPACT BRAND XP WALLBOARD, TYPE X CORE FROM T.O. CEMENT BOARD TO 6" ABOVE CEILING HEIGHT U.O.N. NO SUBSTITUTIONS ALLOWED. FINISH AS SCHEDULED.
 - ALL OTHER FRAME WALL CONDITIONS:
 1/2" CEMENT WALLBOARD FROM T.O. SLAB OR T.O. CONCRETE CURB TO 48" A.F.F., WITH 1/2" GYPSUM WALLBOARD FROM T.O. CEMENT BOARD TO 6" ABOVE CEILING HEIGHT U.O.N. FINISH AS SCHEDULE

WALL LEGEND **E**

DIMENSIONS:
 A. ALL DIMENSIONS NOTED ARE TO FACE OF CONCRETE FOUNDATION, FACE OF SHEATHING ON EXTERIOR WALLS, AND FACE OF FINISH ON INTERIOR WALLS U.O.N.
 B. DIMENSIONS NOTED AS 'CLEAR' OR 'HOLD' ARE MIN. REQUIRED. NET CLEARANCE FROM FACE OF WALL / WAINSCOT FINISH. VERIFY FINAL EQUIPMENT SIZES W/ VENDOR PRIOR TO INT. WALL FRAMING.

WINDOWS / DOORS:
 A. SEE SHEET A1.1 FOR WINDOW TYPES AND DOOR SCHEDULE.
 B. ALL DOOR AND WINDOW OPENING DIMENSIONS ARE TO ROUGH OPENING.

FINISH SUBSTRATES:
 A. PROVIDE 1/2" THICK CEMENTITIOUS BD. FROM FLOOR SLAB TO 12" A.F.F. MIN. IN LIEU OF GYP. BD. AT ALL WALLS EXCEPT SHEARWALL SURFACES, U.O.N.
 B. ALL JOINTS, GAPS OR SPACES LEADING TO ALL HOLLOW OR INACCESSIBLE SPACES SHALL BE SEALED WITH 'NSF' INTERNATIONAL APPROVED SEALANTS.
 C. ALL BACK OF HOUSE AND OFFICE WALLS SHALL HAVE 1/2" CDX PLYWOOD SUBSTRATE, U.O.N.

DECOR:
 A. SEE A2.0 FOR SEATING PLAN AND DETAILS.
 B. SEE A7.0 FOR FLOOR FINISHES.
 C. SEE A8.0 - A8.3 FOR WALL FINISHES.
 D. SEE A7.1 FOR CEILING FINISHES.

GENERAL:
 A. PROVIDE THREE FIRE EXTINGUISHERS - (2) 10 lb. BC AND (1) 10 lb. ABC - TO COMPLY WITH LOCAL FIRE CODE. LOCATE PER DIRECTION OF FIRE MARSHALL OR LOCAL AUTHORIZING AGENT. FOR ADDITIONAL INFORMATION SEE SHEET A2.0
 B. DRAWINGS ARE BASED UPON WOOD FRAMING. UTILIZATION OF METAL STUDS ON NON-BEARING INTERIOR PARTITIONS, BULKHEADS AND SOFFITS IS ACCEPTABLE.

FLOOR PLAN NOTES **D**

202 NO FRP BEHIND W-059 WALK-IN COOLER/FREEZER.
 203 PIPE BOLLARD. SEE CIVIL DRAWINGS.
 204 HOOD WALL, SEE WALL LEGEND.
 208 KEEP CLEAR FOR UTILITIES & SYRUP LINES.
 210 S.S. CORNER GUARD/WALL CAP [TM-2], TYP. ALL CORNERS IN BACK OF HOUSE FROM REAR WALL TO THE KITCHEN SIDE OF THE SERVICE COUNTER. SEE DETAIL 14/A6.3.
 213 SYRUP LINE CHASE (ABOVE).
 214 14"x14" HORIZONTAL OPENING FOR SYRUP TUBES. COORDINATE WALL PENETRATION WITH COUNTER INSTALLER. SEAL CHASE TO COUNTER.
 215 ROOF LADDER.
 216 ADD SECOND 2X4 WALL ON KITCHEN SIDE.
 220 SPLASH GUARD. SEE DETAIL 9/A6.3.
 225 FUR OUT WALL AS INDICATED WITH 2X4 WOOD STUDS AT 16" O.C.
 228 LOW WALL, BY G.C. COORDINATE WITH STRUCTURAL DRAWINGS.
 231 CORNER GUARD TILE SCHLUTER. SEE DETAIL 15/A6.3.

KEY NOTES **B**

- 1. DIMENSIONS ON THIS DRAWING ARE TO FRAME EDGE. REFER TO SHEETS A1.0 FOR ROUGH OPENING DIMENSION
- 2. SEE SCHEDULE FOR GLASS TYPES.
- 3. REFER TO FLOOR PLAN, ELEVATIONS AND WALL SECTIONS FOR ROUGH OPENING DIMENSIONS.
- 4. ALL STOREFRONT MATERIAL AND GLAZING SHALL BE SUPPLIED AND INSTALLED BY G.C., U.O.N.

- 1. LAMINATE DOORS 4, 5, 6 & 7 AND PAINT FRAMES 3, 4, 5, 6 & 7. SEE INTERIOR ELEVATION, SHEET A8.0, A8.1 & A8.2.
- 2. ALL HARDWARE SHALL BE US32D U.O.N.
- 3. ALL HM FRAMES SHALL BE 16 GA. STEEL U.O.N.
- 4. ALL LOCKS SHALL BE FALCON 6 PIN INTERCHANGEABLE CORE SUPPLIED AND INSTALLED BY THE G.C. ALL EXTERIOR LOCKS SHALL BE PROVIDED WITH CONSTRUCTION CORES. ALL PERMANENT CORES SHALL BE KEYS ALIKE.
- 5. PERMANENT CORES SHALL BE SHIPPED TO THE RESTAURANT GENERAL MANAGER.
- 6. MOUNT DOOR CLOSERS ON RESTROOM OR KITCHEN SIDE ONLY.
- 7. LOCKNET SECURITY DOOR. COMPLETE DOOR, FRAME, AND HARDWARE PACKAGE PROVIDED BY RSCS FACILITIES CONNECTIONS.
- 8. PROVIDE PUSH/PULL PLATES. IF REQUIRED BY LOCAL CODE. STOREFRONT DOOR PANIC HARDWARE SHALL BE: DOOR-O-MATIC 2092 RIM PANIC HARDWARE AND EXTERIOR PULLS WITH QUALITY #520 DOOR PULL.
- 9. MOUNT KICKPLATE ON PUSH SIDE ONLY.
- 10. MAXIMUM DOOR OPERATING PRESSURE: 5 LBS INTERIOR, 8.5 LBS EXTERIOR.
- 11. ADA COMPLIANT ACCESSIBILITY SIGNAGE, INCLUDE BRAILLE AS REQUIRED BY LOCAL JURISDICTION - (1) MEN, (1) WOMEN. SEE G4.0.
- 12. RESTROOM SIGN REQUIRED. SEE G4.0.
- 13. INSTALL WITH APPLIED DOORS STOPS AND WEATHER STRIPS.
- 14. FRAMES SHALL BE PAINTED. SEE INTERIOR OR EXTERIOR ELEVATIONS.
- 15. PROVIDE LATCH AND STRIKE PLATE HARDWARE BY DOOR MFR. TO BE COMPATIBLE WITH LOCK.
- 16. NOT USED.
- 17. NOT USED.
- 18. GC TO TRIM DOOR SWEEP TO FIT DOOR.

NATIONAL ACCOUNTS SUPPLIER	
INTERIOR DOORS, FRAMES & HARDWARE LOCKNET CONSTRUCTION@LOCKNET.COM 800 JOHN C. WATTS DR. NICHOLASVILLE, KY 40356 855-432-4613 FAX: 877-887	HAMILTON PARKER JIM CAMPBELL D. 614-358-7806 E-MAIL: JIM.CAMPBELL@HAMILTONPARKER.COM

STOREFRONT SPECIFICATION	
STOREFRONT OLD CASTLE FG-3000	GLAZING VITROGLAZINGS SOLARBAN 70 SOLAR CONTROL LOW-E GLASS
SEE EXTERIOR ELEVATIONS FOR STOREFRONT COLOR	

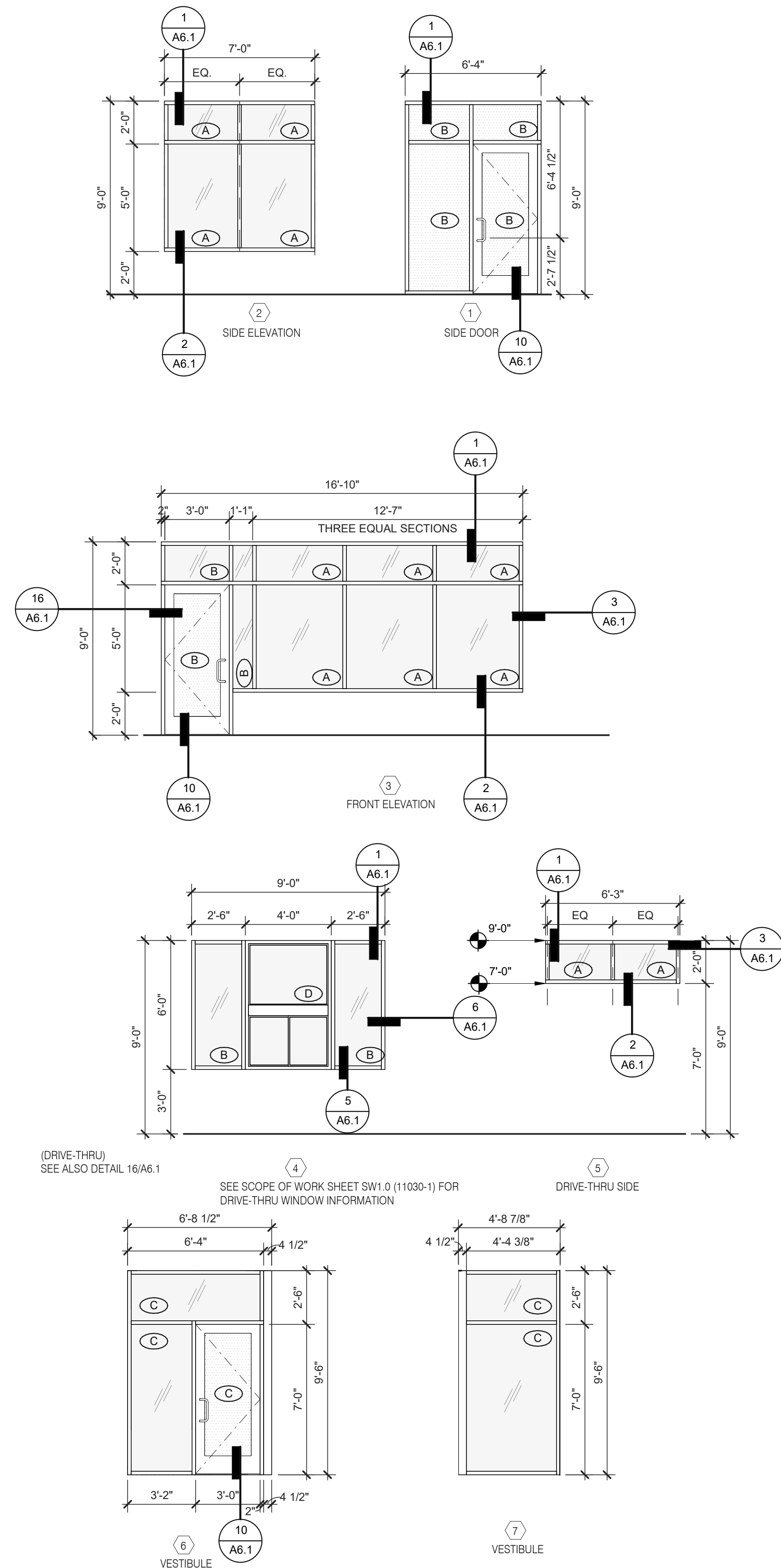
GLASS SCHEDULE	
A	1" INSULATED GLASS
B	1" INSULATED TEMPERED GLASS
C	1/4" TEMPERED GLASS
D	SAFETY GLASS BY MFR.

NOTE:
SHADING COEFFICIENT SPECIFICATION PER LOCAL CODE REQUIREMENTS. DAYTIME VISIBILITY INTO DINING ROOM SHALL BE MAINTAINED.

ALL STOREFRONT GLAZING SHALL BE LOW 'E' SOLAR GLASS

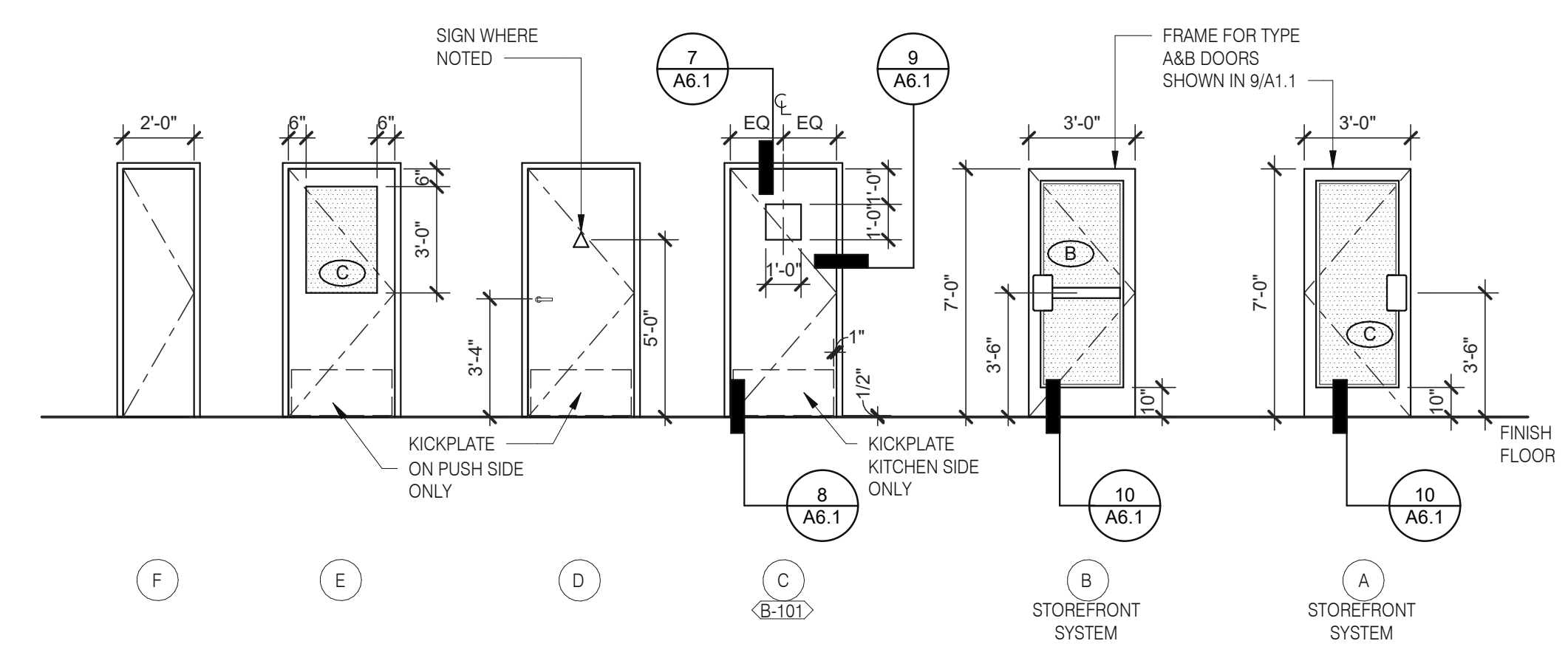
NOTES

DOOR SCHEDULE NOTES



DOOR NO.	ROOM NAME	DOOR SIZE			TYPE	DOOR	FRAME	BUTTS				LOCKS					CLOSERS			KICK PLATE			THRESHOLD			DOOR STOP						MISCELLANEOUS						DETAIL LOCATIONS			DOOR NOTES
		WIDTH	HEIGHT	THICK				1	2	3	4	1	2	3	4	5	6	1	2	3	1	2	3	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	1	2	3
1	DINING	3'-0"	7'-0"	1 3/4"	A	AL	AL	X																																	
2	ENTRANCE	3'-0"	7'-0"	1 3/4"	A	AL	AL	X																																	
3	KITCHEN	3'-6"	7'-0"	1 3/4"	C	HM	HM				X																														
4	MEN	3'-0"	7'-0"	1 3/4"	D	WD	HM				X																														
5	WOMEN	3'-0"	7'-0"	1 3/4"	D	WD	HM				X																														
6	OFFICE	3'-0"	7'-0"	1 3/4"	E	WD	HM				X																														
7	CLOSET	2'-0"	7'-0"	1 3/4"	F	WD	HM				X																														
8	PASSAGE	3'-0"	7'-0"	1 3/4"	A	AL	AL	X																																	

DOOR SCHEDULE



WINDOW TYPES 1/4" = 1'-0" 9

DOOR TYPES 3

DATE	REMARKS
07.21.21	Issued for Permit
03.11.22	Issued for Construction

CONTRACT DATE: 06.22.21
 BUILDING TYPE: END, MED20
 PLAN VERSION: MARCH 2021
 BRAND DESIGNER: DICKSON
 SITE NUMBER: 315089
 STORE NUMBER: 40164
 PA/PM: SM
 DRAWN BY: RS
 JOB NO.: 2019088.31

TACO BELL
18708 TELEGRAPH ROAD
BROWNSTOWN, MI 48183



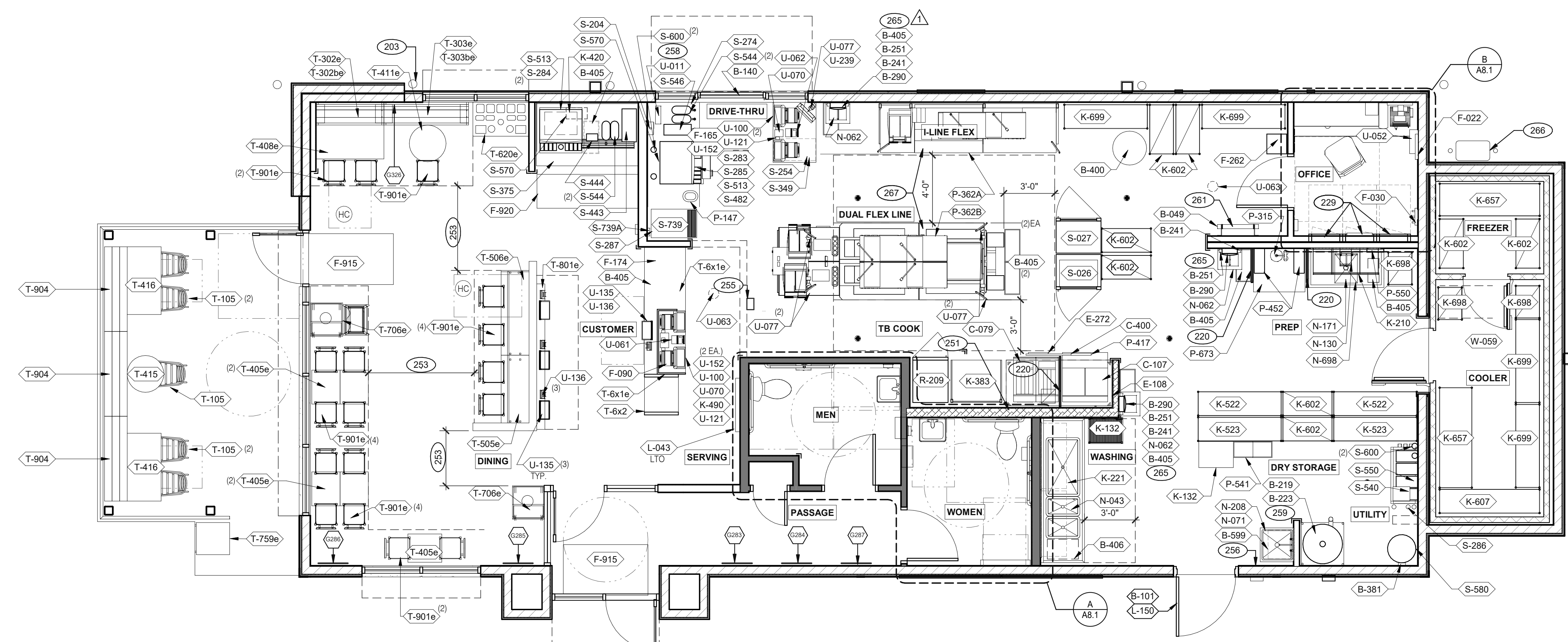
**ENDEAVOR 2.0
DOOR & WINDOW
ELEVATIONS & SCHEDULES**

A1.1

PLOT DATE: 3/9/2022 10:26:02 AM

NOTE: ELEVATIONS DRAWN AS VIEWED FROM EXTERIOR OF BUILDING.

NOTE: ELEVATIONS DRAWN AS VIEWED FROM EXTERIOR OF BUILDING OR OUTSIDE ROOM.



DATE	REMARKS
07.21.21	Issued for Permit
09.17.21	Health Comments
03.11.22	Issued for Construction

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EQUIPMENT AND SEATING PLAN 1/4" = 1'-0" A

TAG	QTY	ITEM DESCRIPTION	TAG	QTY	ITEM DESCRIPTION
T-6x1e	1	GO MOBILE COUNTER	T-759e	1	WASTE ENCLOSURE - SINGLE
T-6x2	1	25in. TOGO Cubby	T-801e	1	KIOSK 1/2 TOWER
T-105	5	RETRO CHAIR - 18	T-901e	17	CHAIR - LAMINATE SEAT
T-302be	1	BENCH BACK REST - 60"	T-904	6	BENCH SEAT - 60"
T-302e	1	BENCH SEAT - 48"			
T-303be	1	BENCH BACK REST - 60"			
T-303e	1	BENCH SEAT - 60"			
T-405e	5	LAMINATE TABLE - 24 X 20 X 30 - 2 TOP			
T-408e	1	LAMINATE TABLE ADA - 24 X 48 X 30 - 4 TOP			
T-411e	1	SS TABLE - 24 DIA X 30 - 2 TOP			
T-415	1	SS TABLE - 24 DIA X 30 - 2 TOP			
T-416	2	LAMINATE TABLE ADA - 24 X 48 X 30 - 4 TOP			
T-505e	1	COUNTER TOP - 48" X 20" X 30"			
T-506e	1	COUNTER TOP - 60" X 20" X 30"			
T-620e	1	CONDIMENT COUNTER - RECTANGLE			
T-706e	2	WASTE ENCLOSURE - SINGLE			

FURNITURE PACKAGE - BY FURNITURE VENDOR U.O.N. E

X	QTY.	NAME	FAMILY	FRAME OR MURAL	SIZE	LOCATION
5328	1	GM - LP MURAL	E	M01	CUSTOM	SEE A8.0
5283	1	GM - CW	E	F01	28x40	SEE A8.0
5284	1	GM - BELL	E	F02	28x40	SEE A8.0
5285	1	GM - ORG	E	F01	28x40	SEE A8.0
5286	1	GM - LP	E	F01	28x40	SEE A8.0
5287	1	GM - CW2	E	F01	28x40	SEE A8.0
5688	1	GM - EXT1	E	M03	TBD	SEE A4.0
THIS MURAL WILL BE PRINTED ON THREE SECTIONS OF EXPRESSION PANEL MATERIAL AND ASSEMBLED INTO ONE LARGE FRAME AND MOUNTED ON WALL.						
5522		GM - HOT	E	M02	48x96	SEE A4.1
5523		GM - SKIP THE LINE	E	M02	48x96	SEE A4.1

ARTWORK SCHEDULE D

DECOR
 1. REFER TO SC SHEETS FOR SCOPE OF WORK RESPONSIBILITY
 2. (HC) SYMBOL DENOTES A HANDICAP ACCESSIBLE TABLE.

STORAGE TYPE	LINEAR FT.
DRY STORAGE	50
COLD STORAGE	26
FROZEN STORAGE	12

SHELVING QUANTITIES C2

GENERAL NOTES C1

203 PIPE BOLLARD. SEE CIVIL DRAWINGS.
 220 SPLASH GUARD. SEE DETAIL 9/A6.3.
 229 ELECTRICAL PANELS.
 251 HOOD FIRE SUPPRESSION SYSTEM (ANSUL R-102 OR EQUAL).
 253 MAINTAIN 36" MIN. CLEAR ACCESSIBLE AISLE EGRESS PATHS TO EXIT DOORS, 32" AT DOORWAYS AND GATED OPENINGS. (42" AISLE REQUIRED WHEN AISLE SERVES MORE THAN 50 SEATS)
 255 ALERT LIGHT BOX FOR 3-COMP POWER SOAK.
 256 PULL STATION @ 3'-8" A.F.F.
 258 COORDINATE LOCATION OF HORIZONTAL PVC SYRUP CHASE THRU WALL TO COUNTER.
 259 6" HIGH WATER HEATER PLATFORM.
 261 ROOF LADDER WITH BILCO LADDER UP SAFETY POST.
 265 AUTOMATIC HAND SOAP AND SANITIZER DISPENSERS PROVIDED BY ECOLAB.
 266 GAS METER.
 267 FOR DUAL-FLEX LINE AND I-FLEX LINE SUB-EQUIPMENT SEE SHEET A8.3.

KEY NOTES B

(XXX)

TACO BELL

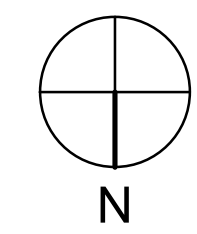
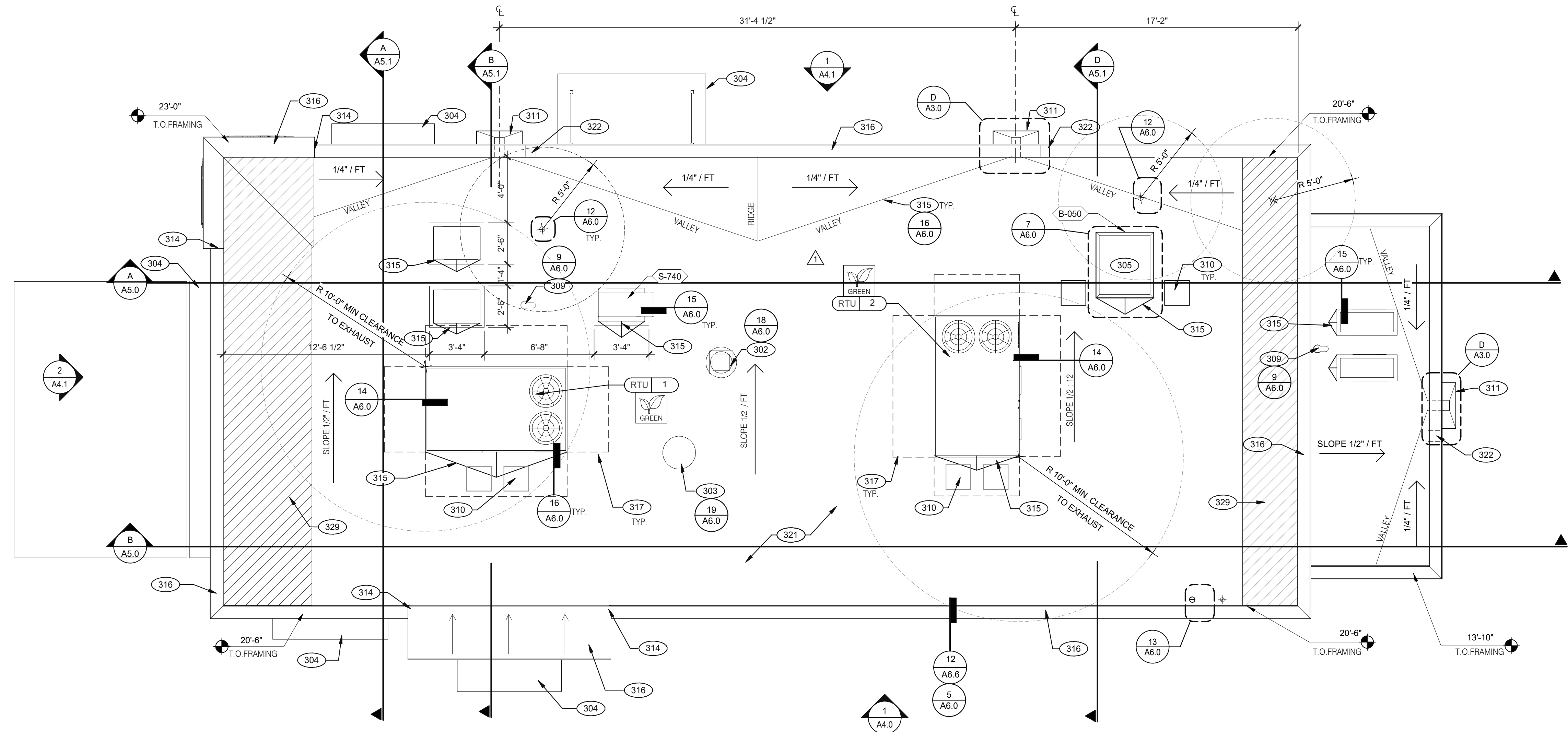
18708 TELEGRAPH ROAD
BROWNSTOWN, MI 48183

ENDEAVOR 2.0 EQUIPMENT AND SEATING PLAN

A2.0

PLOT DATE: 3/9/2022 10:26:11 AM

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ROOF PLAN 1/4" = 1'-0" **A**

DATE	REMARKS
07.21.21	Issued for Permit
09.17.21	Health Comments
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 BRAND DESIGNER: DICKSON
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TACO BELL

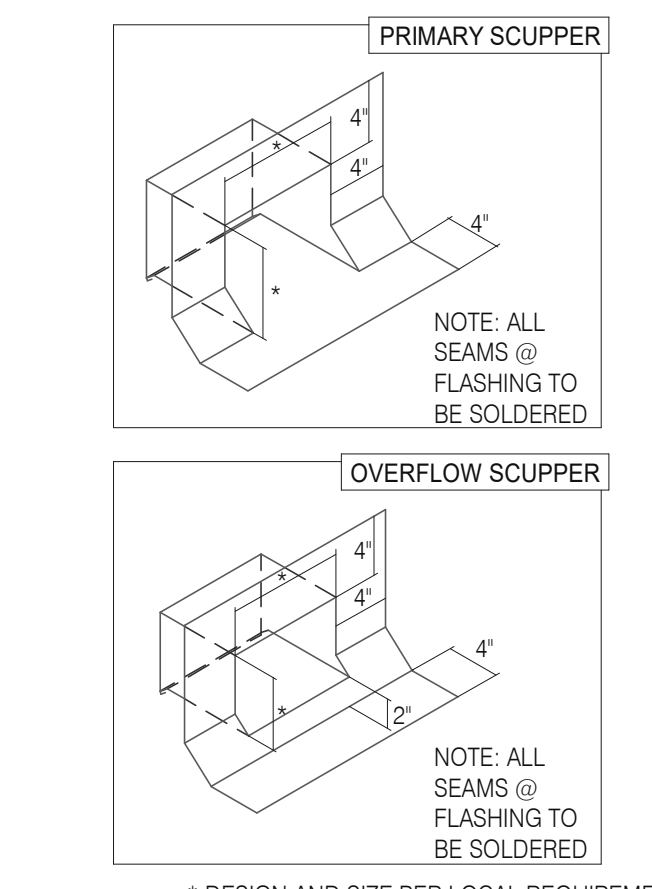
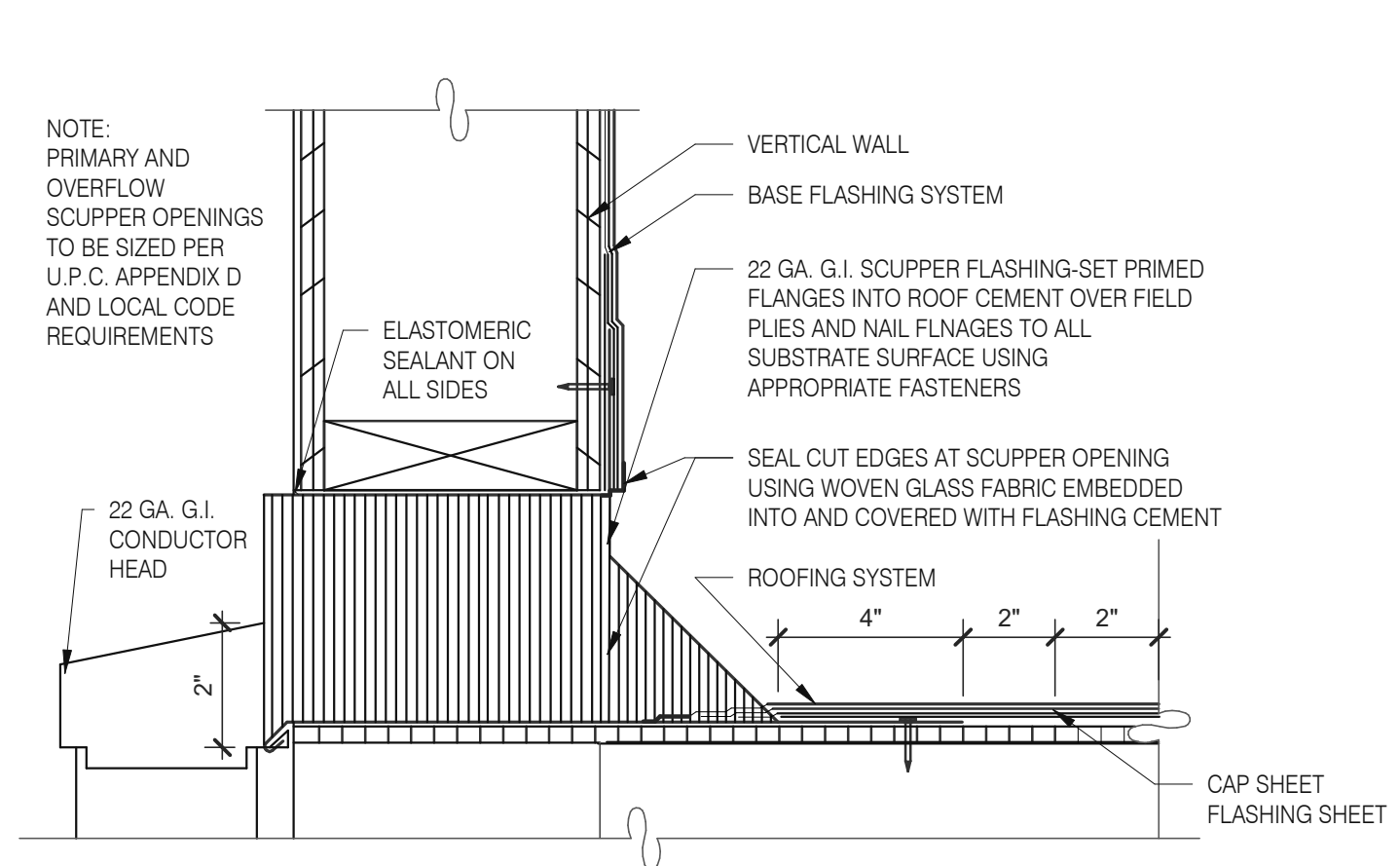
18708 TELEGRAPH ROAD
BROWNSTOWN, MI 48183



ENDEAVOR 2.0 ROOF PLAN

A3.0

PLOT DATE: 3/9/2022 10:26:30 AM



SCUPPER FLASHING **D**

WATERPROOFING:
 A. PAINT UNDERSIDE OF PARAPET CAP FLASHING WITH FACTORY BONDED PAINT GRIP OR PRIMER
 B. TOP NAILING AT PARAPET CAP FLASHING WILL NOT BE ACCEPTED
 C. PENETRATIONS IN ROOFING MEMBRANE AND FLASHING SHALL ONLY BE MADE AS INDICATED ON THE DRAWINGS OR SPECS.
 D. SEE SPECIFICATIONS FOR SEALANT SPECS.
 E. ALL SHEETS MTL FLASHING SHALL BE 22 GA MIN.

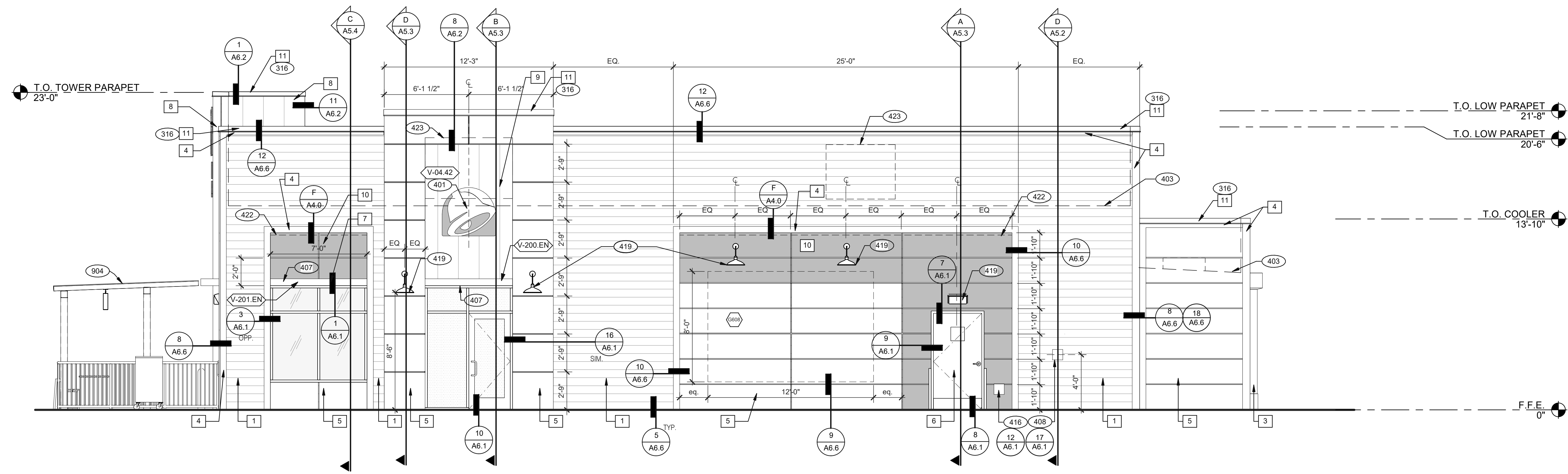
MISCELLANEOUS:
 A. ROOF PENETRATIONS CLOSER THAN 12" FROM ANOTHER WILL NOT BE ALLOWED.
 B. EXHAUST FANS MIN. 10'-0" AWAY FROM ALL AIR INTAKE / SUPPLY
 C. LOCATE WALK-IN CONDENSERS ON ROOF ONLY IF REQUIRED BY CODE.

ROOF PLAN NOTES **C**

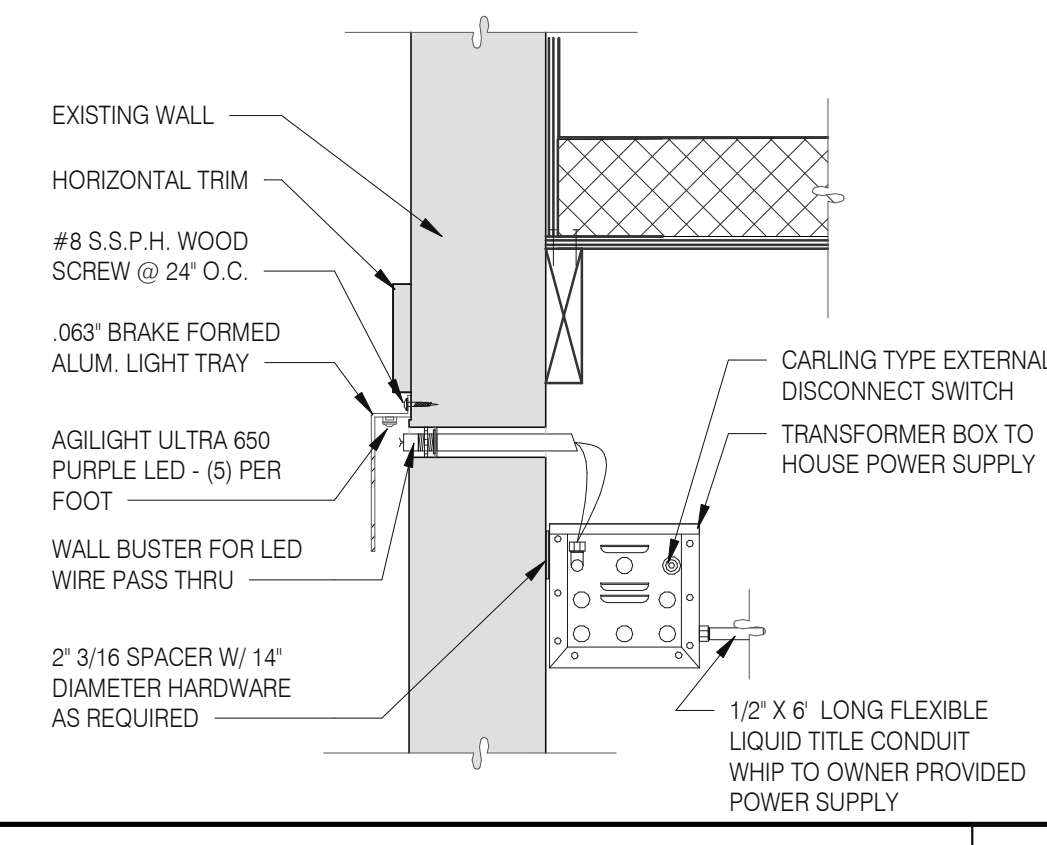
- 302 KITCHEN HOOD EXHAUST FAN. SEE SHEETS M3.0 AND DETAIL 19/A6.0.
- 303 RESTROOM EXHAUST FAN. SEE MECHANICAL DRAWINGS AND DETAIL 18/A6.0.
- 304 CANOPY, BY SIGNAGE VENDOR. SEE SCOPE OF WORK.
- 305 ROOF HATCH. SEE DETAIL 7/A6.0.
- 309 PIPE HOOD FOR UTILITIES. SEE DETAIL 9/A6.0.
- 310 24x36 WALK MATS. SEE ROOF SPECS.
- 311 SCUPPER AND DOWNSPOUT. SEE DETAIL D/A3.0.
- 314 CHANGE IN PARAPET ELEVATION. SEE SECTION 13/A6.1.
- 315 ROOF CRICKET.
- 316 METAL PARAPET CAP.
- 317 MAINTAIN MANUFACTURERS ROOFTOP UNIT MAINTENANCE CLEARANCE.
- 321 "DURO-LAST" SINGLE PLY ROOF MEMBRANE OVER MINIMUM R-35 RIGID INSULATION BOARD OVER 5/8" APA RATED EXTERIOR GRADE PLYWOOD OVER TRUSSES. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
- 322 OVERFLOW SCUPPER. SEE DETAIL D/A3.0.
- 329 KICKERS, SEE STRUCTURAL DRAWINGS

KEY NOTES **B**

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FRONT ELEVATION 1/4" = 1'-0" 1



LED WALL WASHER DETAIL F

TYPE MARK	QTY	ITEM DESCRIPTION	LOC
TOWER			
V-09.14W	2	14" WHITE CHANNEL LETTERS VERTICAL	A4.1
V-04.42	2	42" SWINGING BELL PURPLE LOGO FACE LIT	A4.1
SIDE ENTRY			
V-04.42	1	42" SWINGING BELL PURPLE LOGO FACE LIT	A4.0
V-200.EN	1	SIDE ENTRY AWNING 6' 3 1/2" X 6' 3 1/2" BLACK	A4.0
DRIVE THRU			
V-101.DT	1	DT AWNING (OVER DT) 9' 0" X 4' 0" BLACK	A4.1
EYEBROW AWNINGS			
V-201.EN	1	SIDE ENTRY EYEBROW (WINDOW) 6' 11" L 6" H X 1' 4" D BLACK	A4.0
V-202.EN	1	FRONT EYEBROW (WINDOW) 4' 6" X 6" H X 1' 4" D BLACK	A4.1
V-203.EN	1	DT EYEBROW (WINDOW) 6' 2" L 6" H X 1' 4" D BLACK	A4.1

SIGNAGE E

MISCELLANEOUS
A. SEE SHEET A1.1 'WINDOW TYPES' FOR WINDOW ELEVATIONS.

SEALERS (REFER TO SPECS)
A. SEALANT AT ALL WALL AND ROOF PENETRATIONS.
B. SEALANT AT ALL WINDOW AND DOOR FRAMES AND JAMB. DO NOT SEAL SILL @ WINDOWS.
C. APPLY NEOPRENE GASKET (CONT.) BETWEEN BUILDING AND CANOPY.

CRITICAL DIMENSIONS
A. REQUIRED CLEAR OPENING WIDTH TO ENSURE COORDINATION WITH STANDARD SIGNAGE/BUILDING ELEMENTS DIMENSIONS.

NOTE: NO EXTERIOR SIGNS ARE WITHIN THE SCOPE OF WORK COVERED BY THE BUILDING PERMIT APPLICATION. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL EXTERIOR SIGNS AND INSTALLATION OF REQUIRED BLOCKING AND ELECTRICAL CONNECTIONS FOR FINAL APPROVED SIGNS.

GENERAL NOTES C

SYMBOL	NAME	FAMILY	FRAME OR MURAL	SIZE	LOCATION
6516	HIPNOTIZE ME BELL	D	M02	48x96	A4.0
6517	HIPNOTIZE ME BELL	D	M02	48x96	A4.0
6516	HIPNOTIZE ME BELL	D	M02	48x96	A4.1
6517	HIPNOTIZE ME BELL	D	M02	48x96	A4.1

PAINTING
APPLICATOR MUST DO THEIR DUE DILIGENCE WITH PREPARATION.
PRIMER: 1 COAT SW A24W8300
FINISH: 2 COATS SW A82-100 SERIES, MATCH COLORS FROM MATERIAL SCHEDULE.
A-100 EXTERIOR LATEX SATIN.

PAINT NOTES A

SYMBOL	ITEM/MATERIAL	MANUFACTURER	MATERIAL SPEC	COLOR	CONTACT INFORMATION
1	SIDING	JAMES HARDIE	ARTISAN V-GROOVE 144" L X 8 25" W, 7" EXPOSURE COMES PRIMED FOR PAINT	WORLDLY GRAY (SW7043), SEMI-GLOSS	SEE C / A 7.2
2	SCUPPERS	-	-	WORLDLY GRAY (SW7043), SEMI-GLOSS	
3	DOWN SPOUTS	-	-	WORLDLY GRAY (SW7043), SEMI-GLOSS	
4	HARDIE TRIM	JAMES HARDIE	HARDIE TRIM 5/4 SMOOTH 1"x5.5"	CYBERSPACE (SW7076), SEMI-GLOSS	SEE C / A 7.2
5	HARDIE REVEAL PANEL	JAMES HARDIE	REVEAL PANEL SYSTEM	CYBERSPACE (SW7076), SEMI-GLOSS	SEE C / A 7.2
6	HOLLOW METAL DOOR	-	-	SW PURPLE TB2603C, SEMI-GLOSS	
7	AWNINGS	SIGNAGE VENDOR	-	BLACK BY THE SIGNAGE VENDOR	
8	CORNER TOWER	WESTERN STATE	T-GROOVE 24GA PAINTED 18" PANEL	WEATHERED RUSTIC	SEE C / A 7.2
9	RECESS OF SIDE ENTRY PORTAL	WESTERN STATE	T-GROOVE 24GA PAINTED 18" PANEL	WEATHERED RUSTIC	SEE C / A 7.2
10	HARDIE REVEAL PANEL	JAMES HARDIE	REVEAL PANEL SYSTEM	SW PURPLE TB2603C, SEMI-GLOSS	SEE C / A 7.2
11	METAL PARAPET CAP	-	24GA GALVANIZED	CYBERSPACE (SW7076) KYNAR 500 COATING	

EXTERIOR FINISH SCHEDULE D

- 316 METAL PARAPET CAP.
- 401 BUILDING SIGN BY VENDOR. REQUIRES ELECTRICAL, SEE ELECTRICAL PLANS.
- 403 DASHED LINE INDICATES ROOF BEYOND.
- 407 METAL CANOPIES BY VENDOR. REQUIRES ELECTRICAL, SEE ELECTRICAL PLANS.
- 408 CO2 FILLER VALVE & COVER.
- 416 HOSE BIBB BOX AT 18" A.F.F. SEE PLUMBING DRAWINGS.
- 419 EXTERIOR LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.
- 422 PURPLE LIGHT WALL WASHER, PROVIDED BY SIGNAGE VENDOR, REQUIRES ELECTRICAL, SEE ELECTRICAL PLANS.
- 423 OUTLINE OF RTU BEYOND.
- 904 PATIO CANOPY, PROVIDED AND INSTALLED BY G.C. SEE SHEET A9.0 FOR DETAILS.

KEY NOTES B

DATE	REMARKS
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03.11.22	Issued for Construction

CONTRACT DATE: 06.22.21
BUILDING TYPE: END. MED20
PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 315089
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PA/PM: SM
DRAWN BY.: RS
JOB NO.: 2019088.31

TACO BELL
18708 TELEGRAPH ROAD
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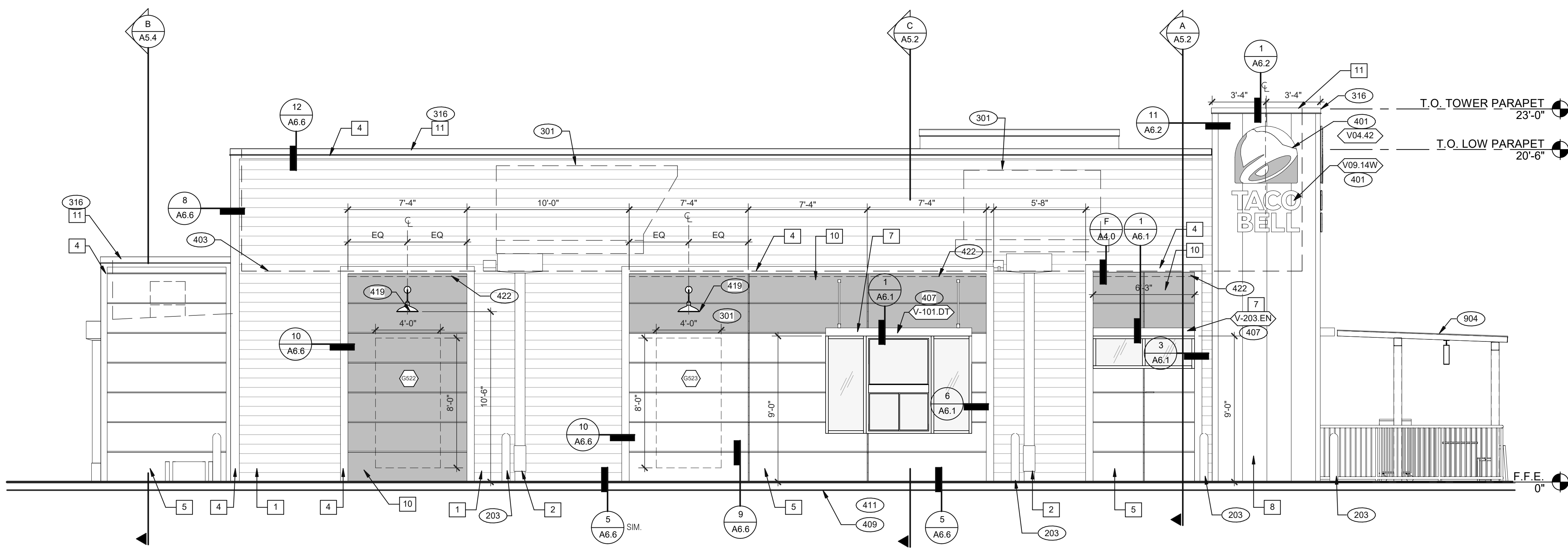
ENDEAVOR 2.0 EXTERIOR ELEVATIONS

A4.0

PLOT DATE: 3/9/2022 10:26:37 AM

SEE SHEET A4.0 FOR FINISH SCHEDULE

- 203 PIPE BOLLARD. SEE CIVIL DRAWINGS.
- 301 ROOFTOP UNIT. INSTALL PLUMB AND LEVEL. SEE MECHANICAL DRAWINGS.
- 316 METAL PARAPET CAP.
- 401 BUILDING SIGN BY VENDOR. REQUIRES ELECTRICAL. SEE ELECTRICAL PLANS.
- 403 DASHED LINE INDICATES ROOF BEYOND.
- 407 METAL CANOPIES BY VENDOR. REQUIRES ELECTRICAL. SEE ELECTRICAL PLANS.
- 409 ASSUME D/T LANE SURFACE IS 6" BELOW THE FINISH FLOOR. REFER TO GRADING & SITE PLAN.
- 411 CONCRETE CURB.
- 419 EXTERIOR LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.
- 422 PURPLE LIGHT WALL WASHER, PROVIDED BY SIGNAGE VENDOR. REQUIRES ELECTRICAL. SEE ELECTRICAL PLANS.
- 423 OUTLINE OF RTU BEYOND.
- 424 ALIGN REVEAL WITH VERTICAL MULLION.
- 904 PATIO CANOPY, PROVIDED AND INSTALLED BY G.C. SEE SHEET A9.0 FOR DETAILS.



REAR ELEVATION 1/4" = 1'-0" **1**

KEY NOTES **A**

DATE	REMARKS
07.21.21	Issued for Permit
03.11.22	Issued for Construction

CONTRACT DATE: 06.22.21
 BUILDING TYPE: END, MED20
 PLAN VERSION: MARCH 2021
 BRAND DESIGNER: DICKSON
 SITE NUMBER: 315089
 STORE NUMBER: 40164
 PA/PM: SM
 DRAWN BY: RS
 JOB NO.: 2019088.31

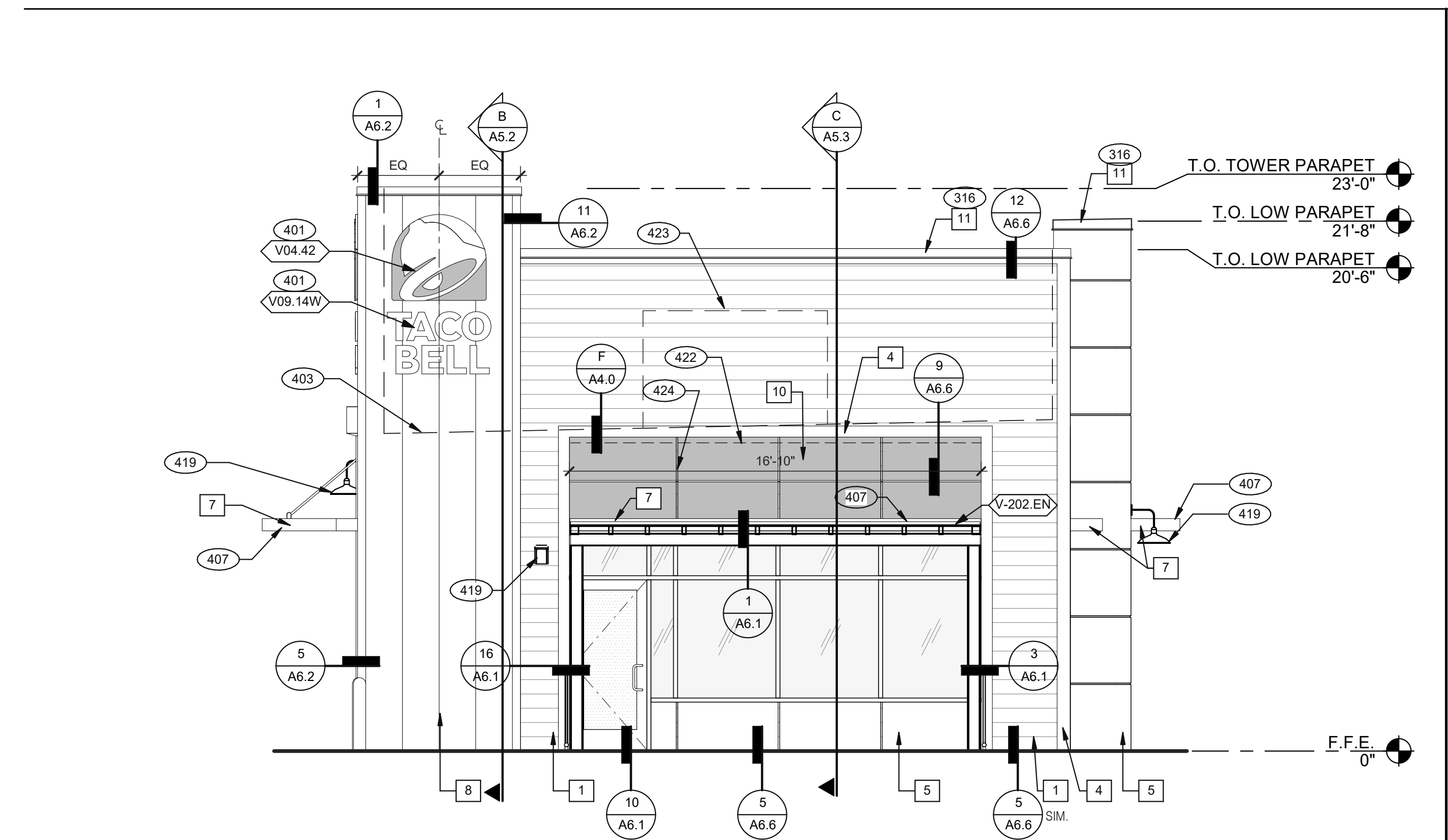
TACO BELL
 18708 TELEGRAPH ROAD
 BROWNSTOWN, MI 48183



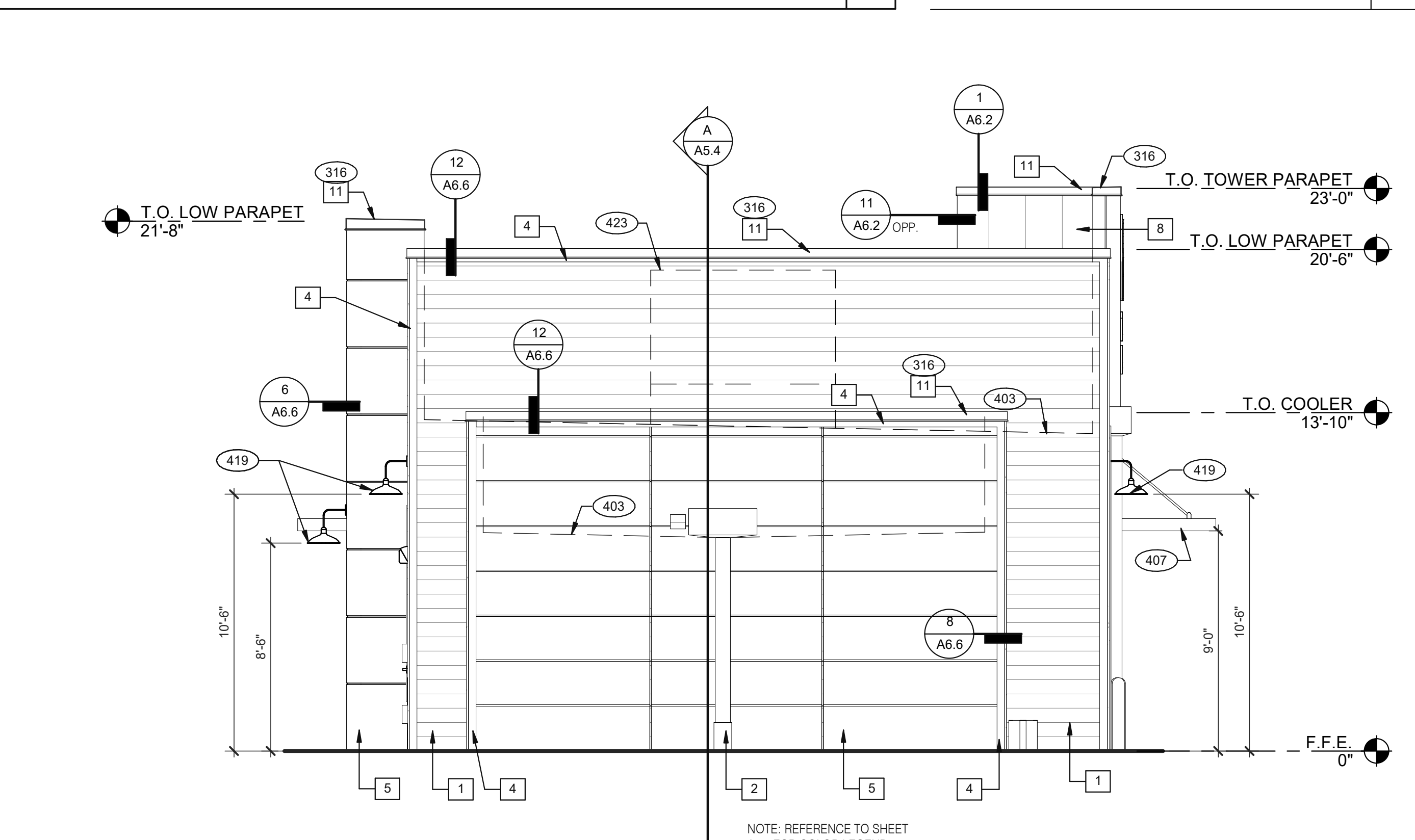
**ENDEAVOR 2.0
 EXTERIOR
 ELEVATIONS**

A4.1

PLOT DATE: 3/9/2022 10:26:46 AM

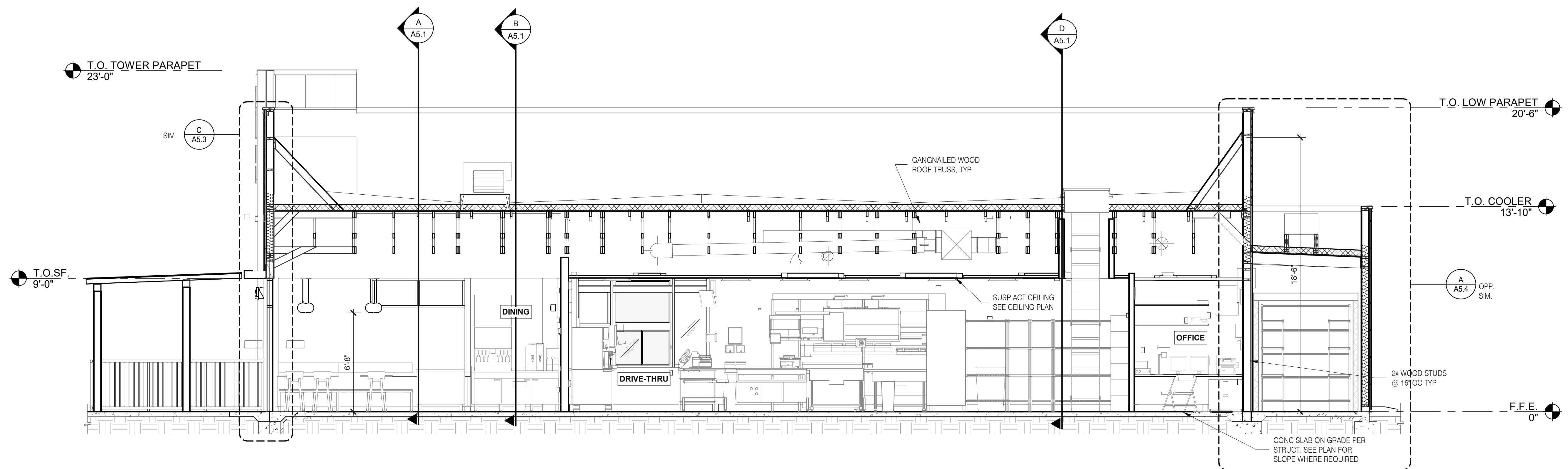


FRONT ELEVATION 1/4" = 1'-0" **2**

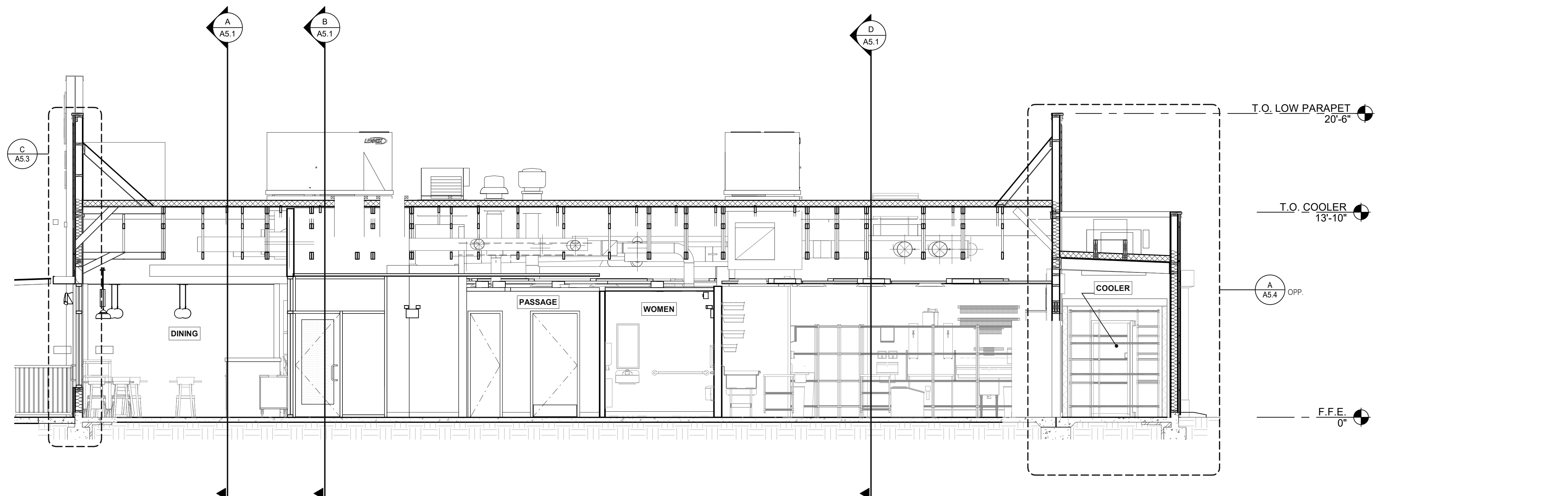


REAR ELEVATION 1/4" = 1'-0" **3**

NOTE: REFERENCE TO SHEET A4.0 FOR COLOR LEGEND



EAST/WEST BUILDING SECTION 2 1/4" = 1'-0" **A**



EAST/WEST BUILDING SECTION 1 1/4" = 1'-0" **B**

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07.21.21	Issued for Permit
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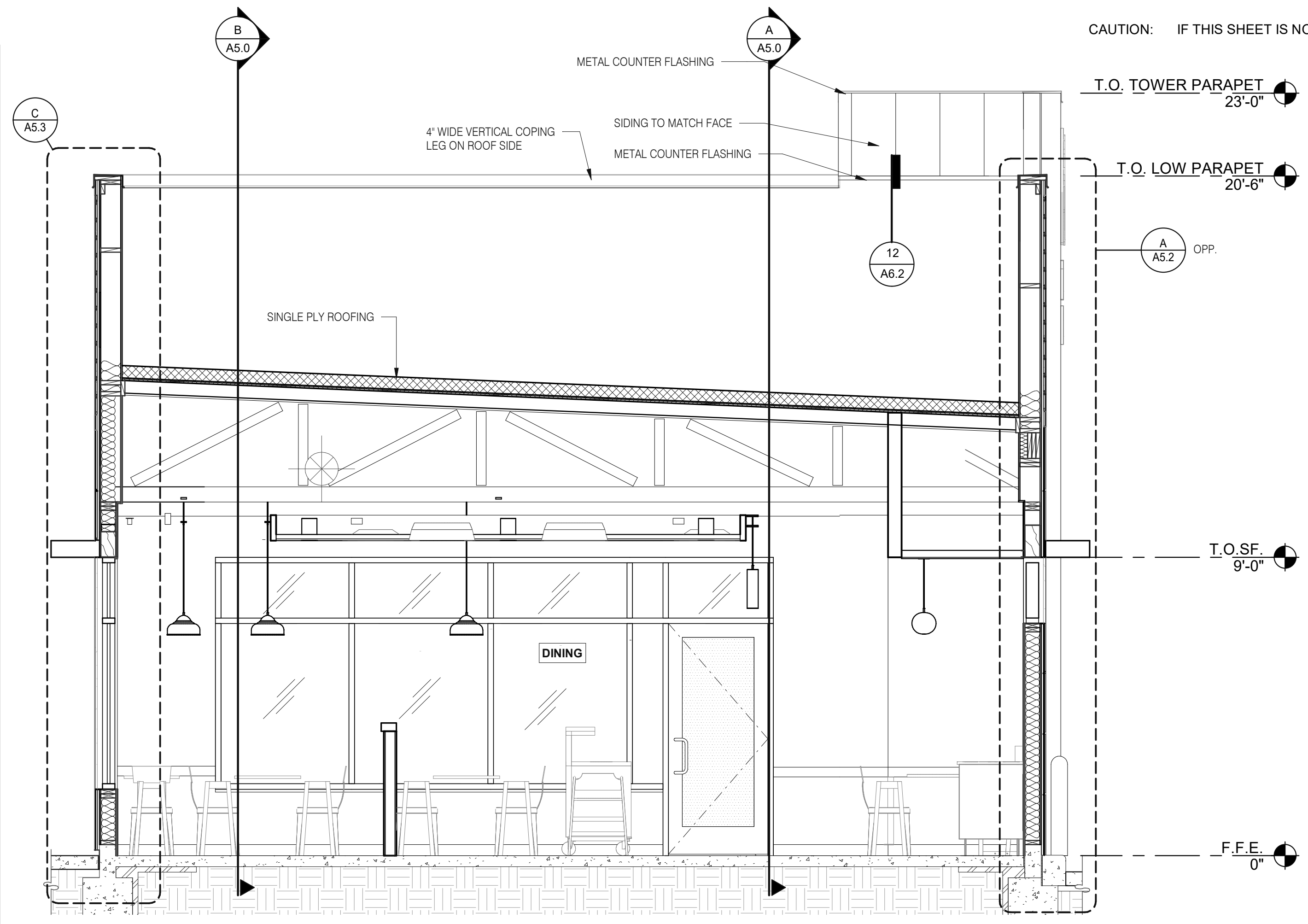
TACO BELL
 18708 TELEGRAPH ROAD
 BROWNSTOWN, MI 48183



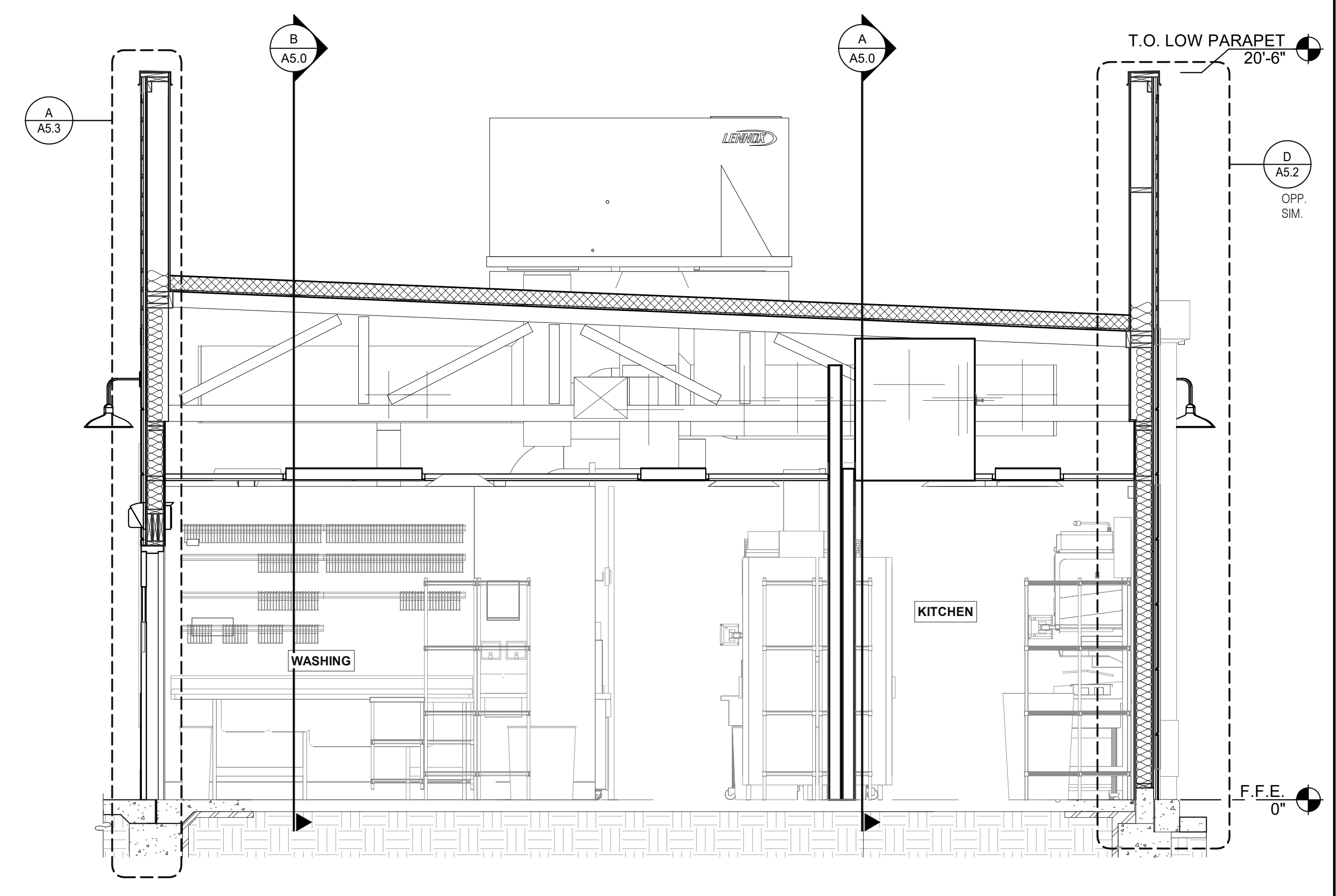
**ENDEAVOR 2.0
 BUILDING
 SECTIONS**

A5.0

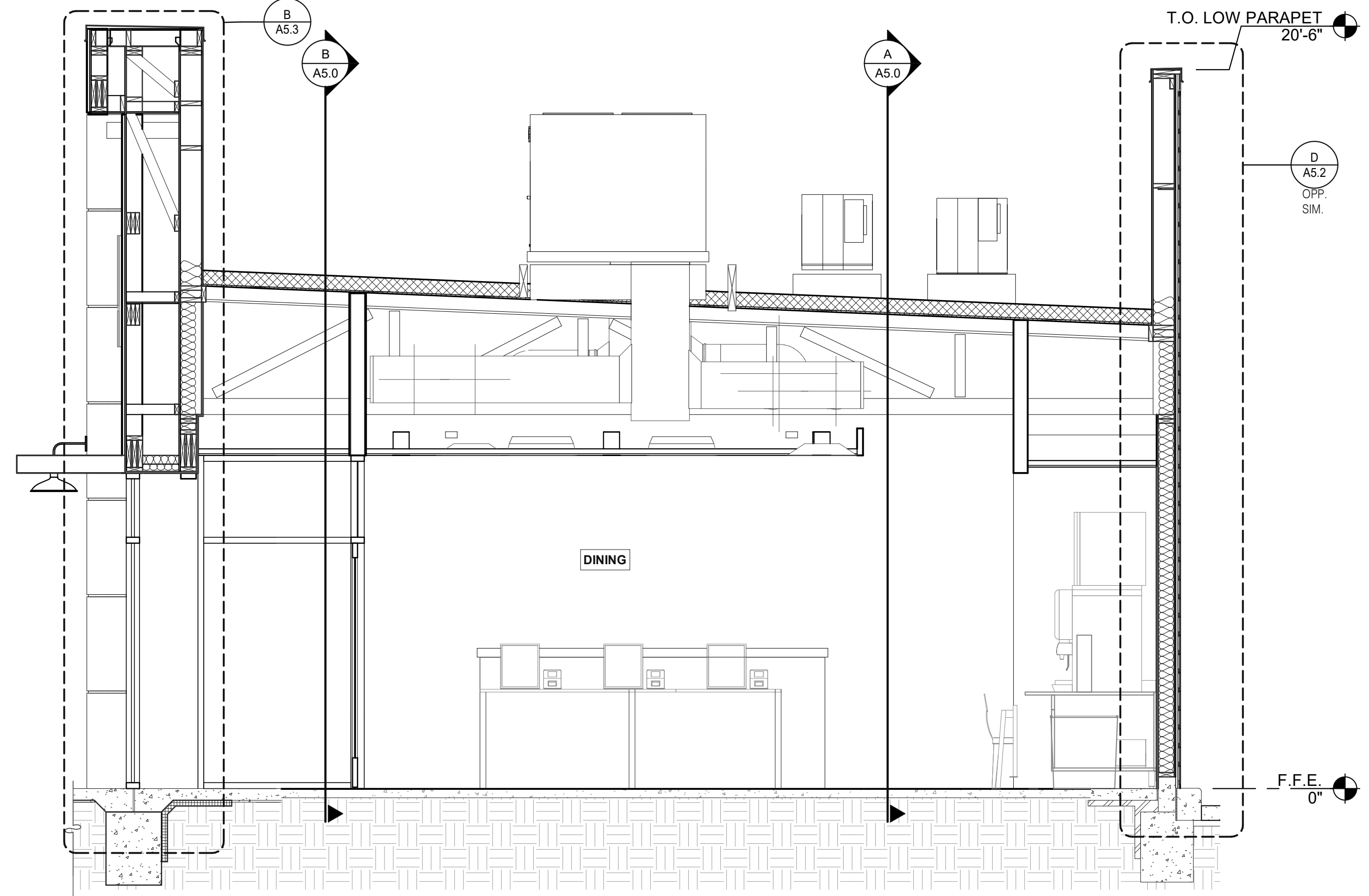
PLOT DATE: 3/9/2022 10:27:04 AM



LEFT TO RIGHT BUILDING SECTION 5 3/8" = 1'-0" **A**



LEFT TO RIGHT BUILDING SECTION 4 3/8" = 1'-0" **D**



LEFT TO RIGHT BUILDING SECTION 3 3/8" = 1'-0" **B**

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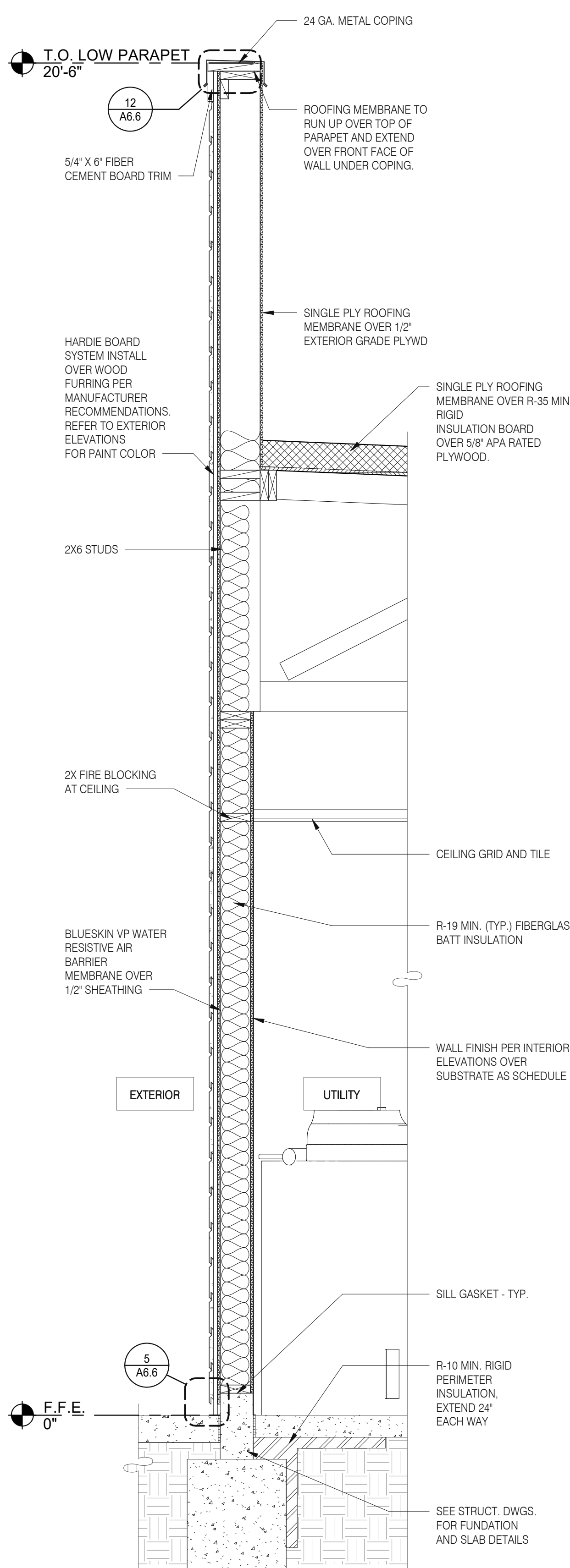
CONTRACT DATE: 06.22.21
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 BRAND DESIGNER: DICKSON
 SITE NUMBER: 315089
 STORE NUMBER: 40164
 PA/PM: SM
 DRAWN BY.: RS
 JOB NO.: 2019088.31

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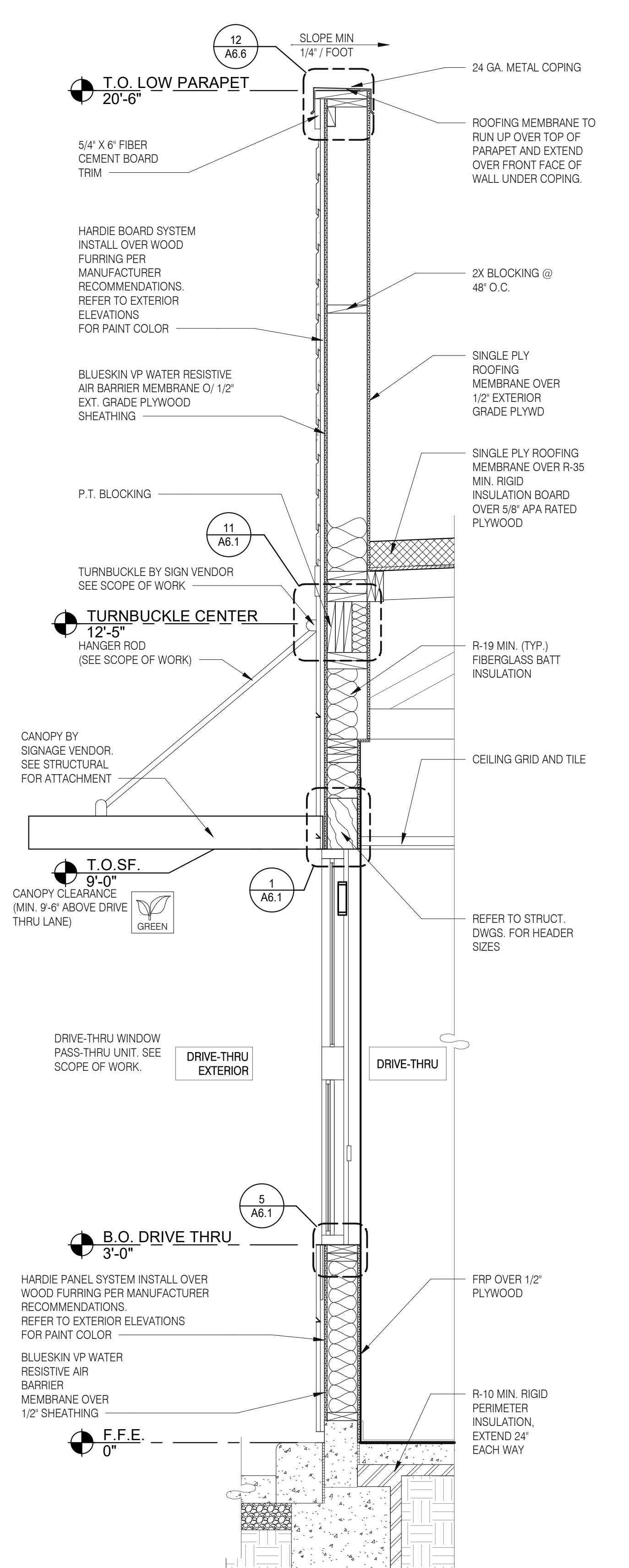


**ENDEAVOR 2.0
 BUILDING
 SECTIONS**

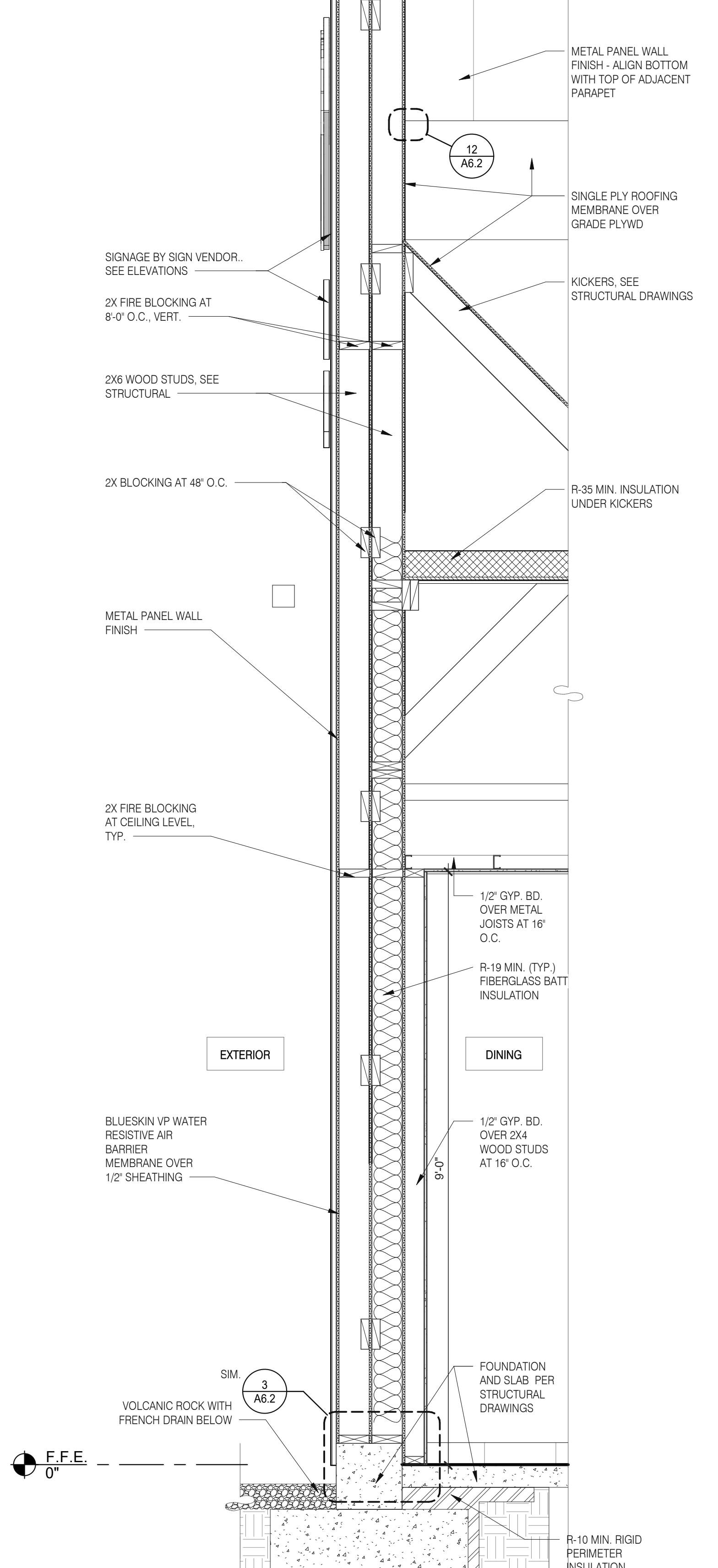
A5.1



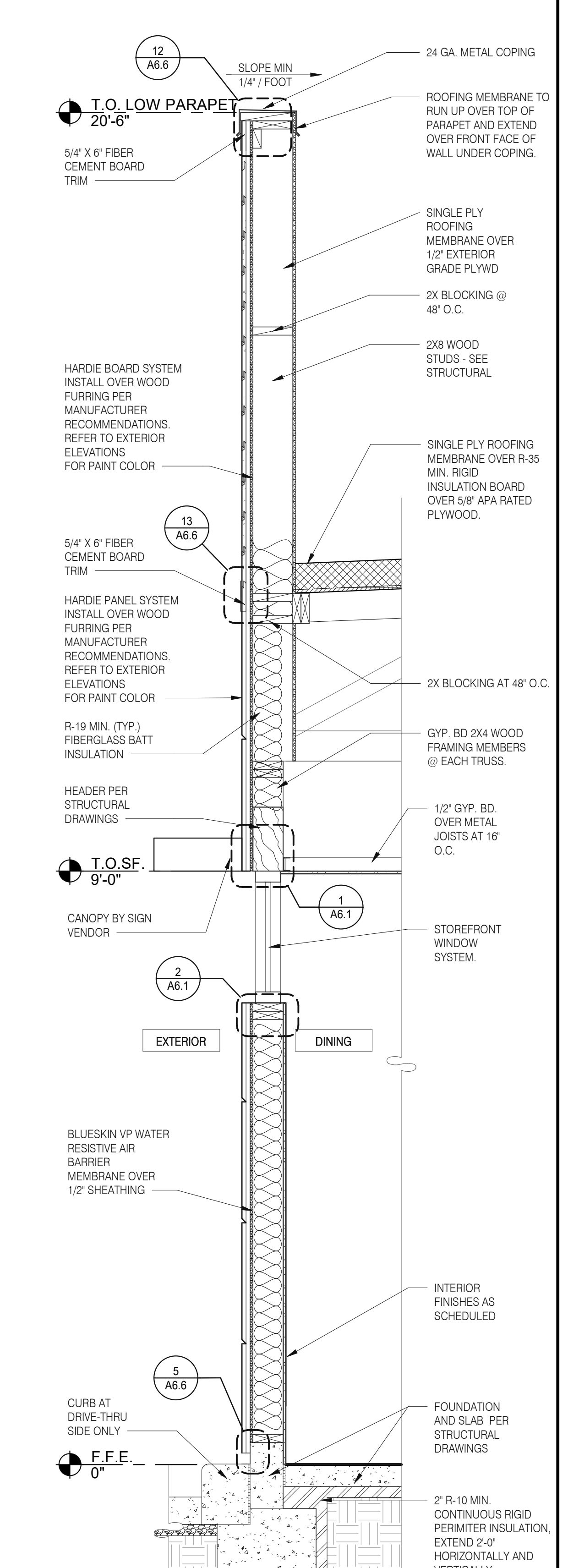
TYPICAL WALL SECTION 3/4" = 1'-0" **D**



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



SECTION AT DINING - TOWER 3/4" = 1'-0" **B**



WALL SECTION AT DINING 3/4" = 1'-0" **A**

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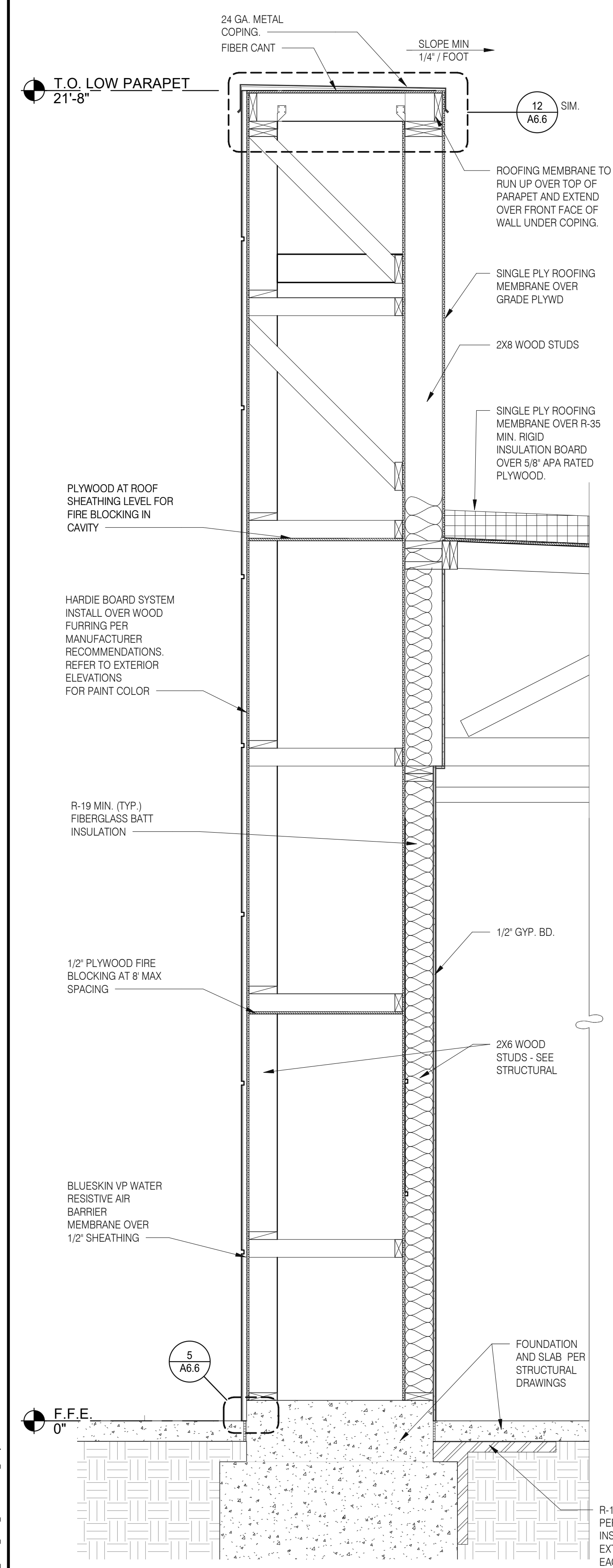
TACO BELL
 18708 TELEGRAPH ROAD
 BROWNSTOWN, MI 48183



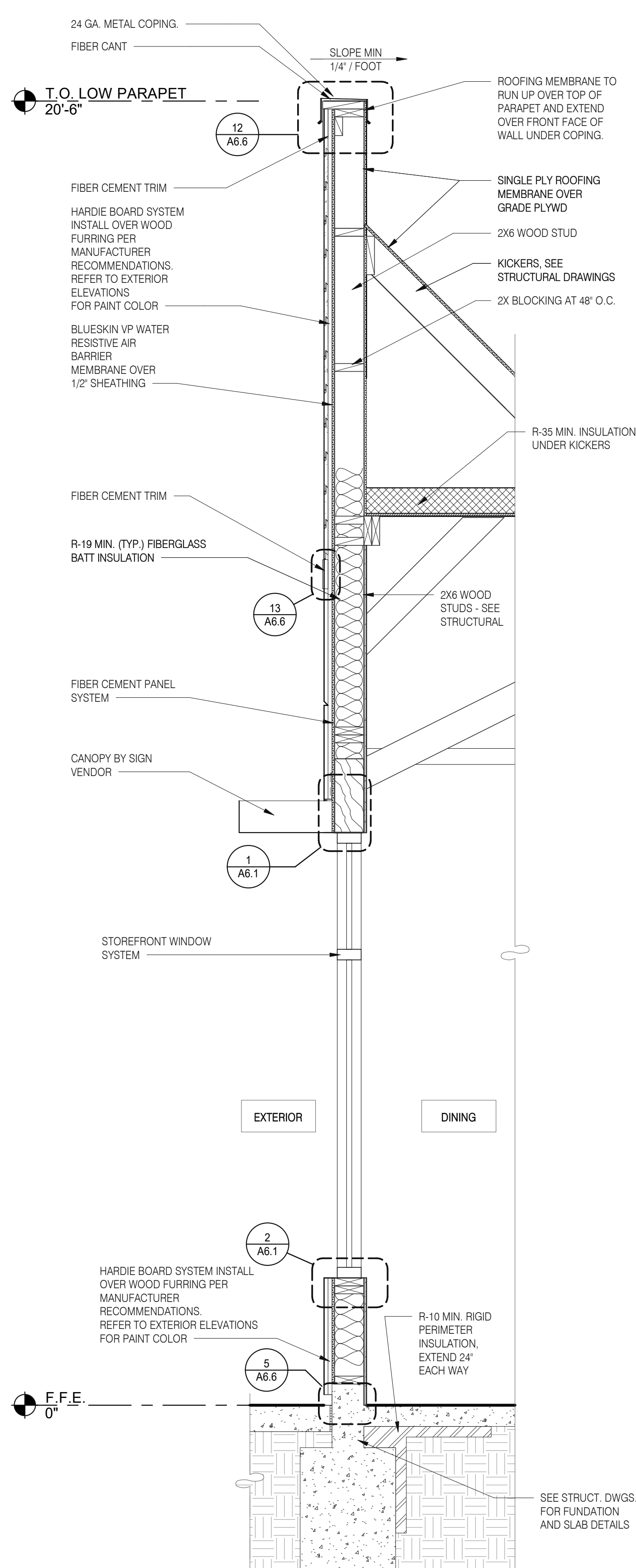
ENDEAVOR 2.0 WALL SECTIONS

A5.2

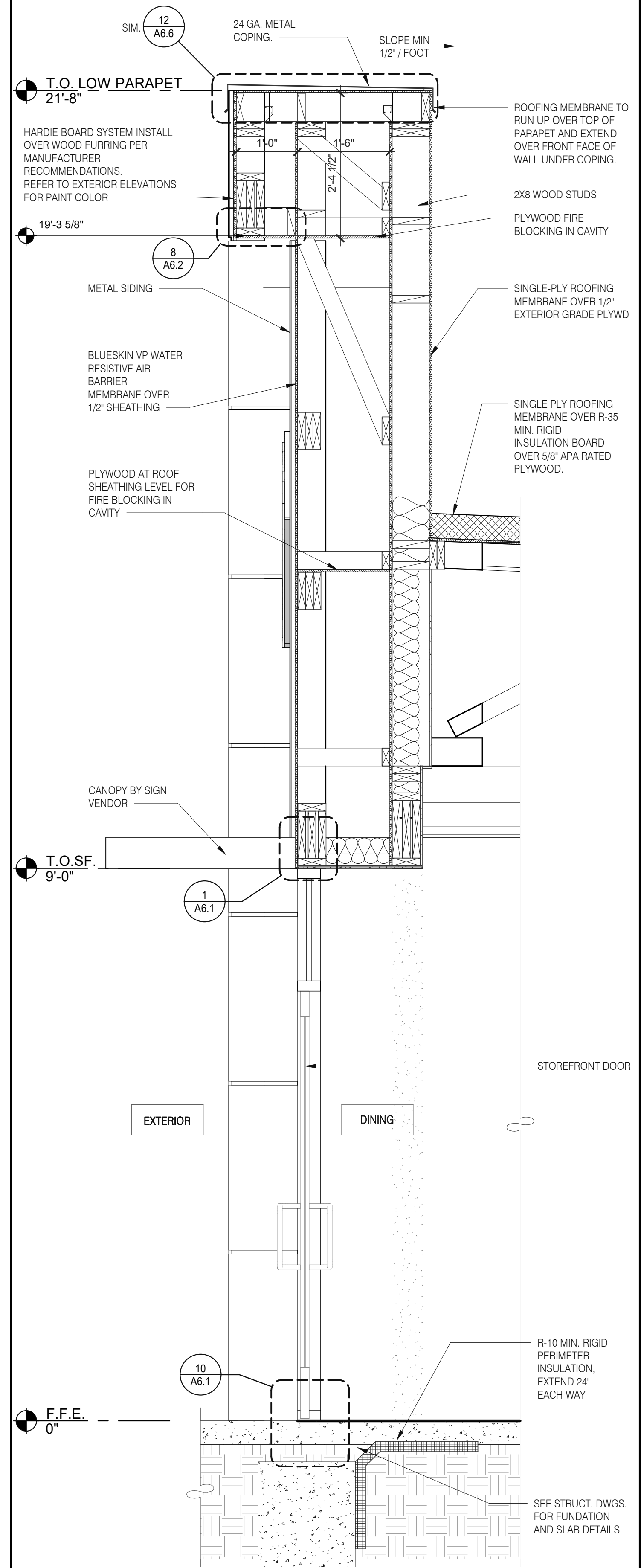
C:\Users\mimil\Documents\0275_ARCH_SMO2_Brownstown_MI_Burgis.rvt



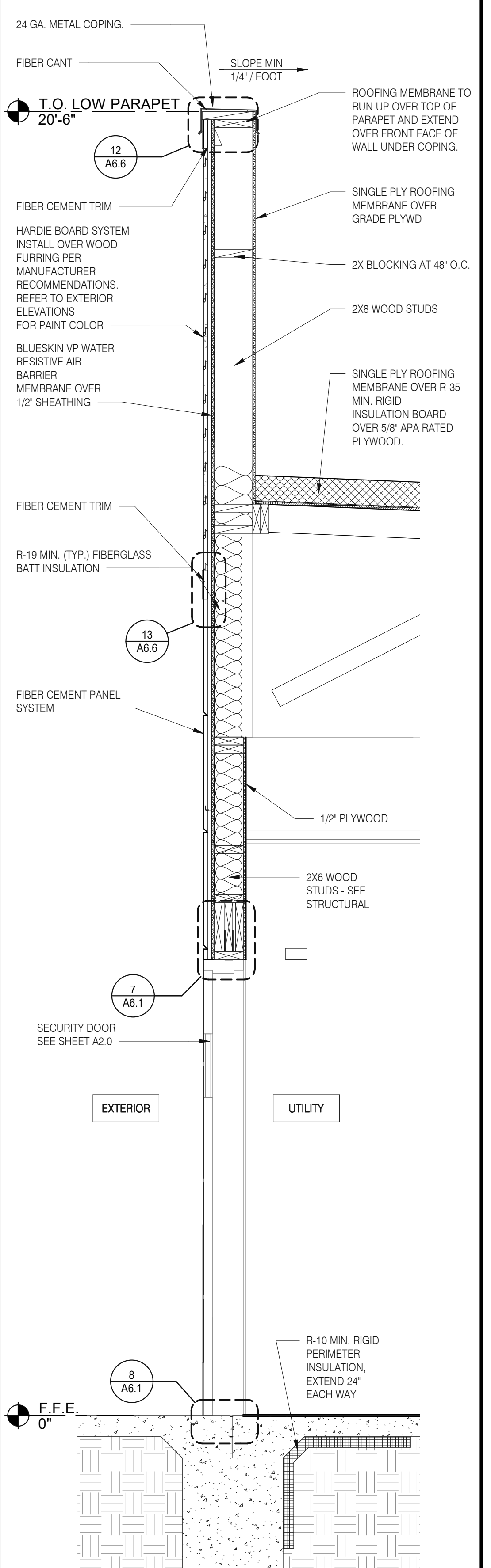
FRONT WALL SECTION 3/4" = 1'-0" D



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



WALL SECTION AT DINING DOOR 3/4" = 1'-0" B



WALL SECTION AT SERVICE DOOR 3/4" = 1'-0" A

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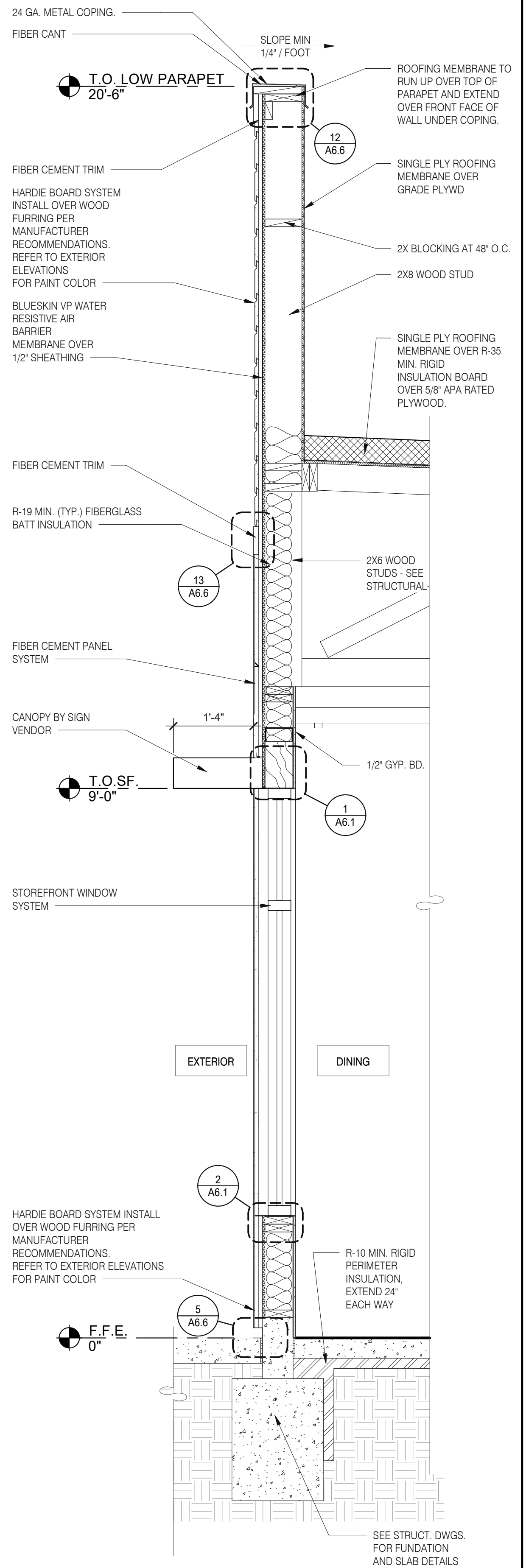
CONTRACT DATE: 06.22.21
 BUILDING TYPE: END. MED20
 PLAN VERSION: MARCH 2021
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 STORE NUMBER: 40164
 PA/PM: SM
 DRAWN BY.: RS
 JOB NO.: 2019088.31

TACO BELL
 18708 TELEGRAPH ROAD
 BROWNSTOWN, MI 48183

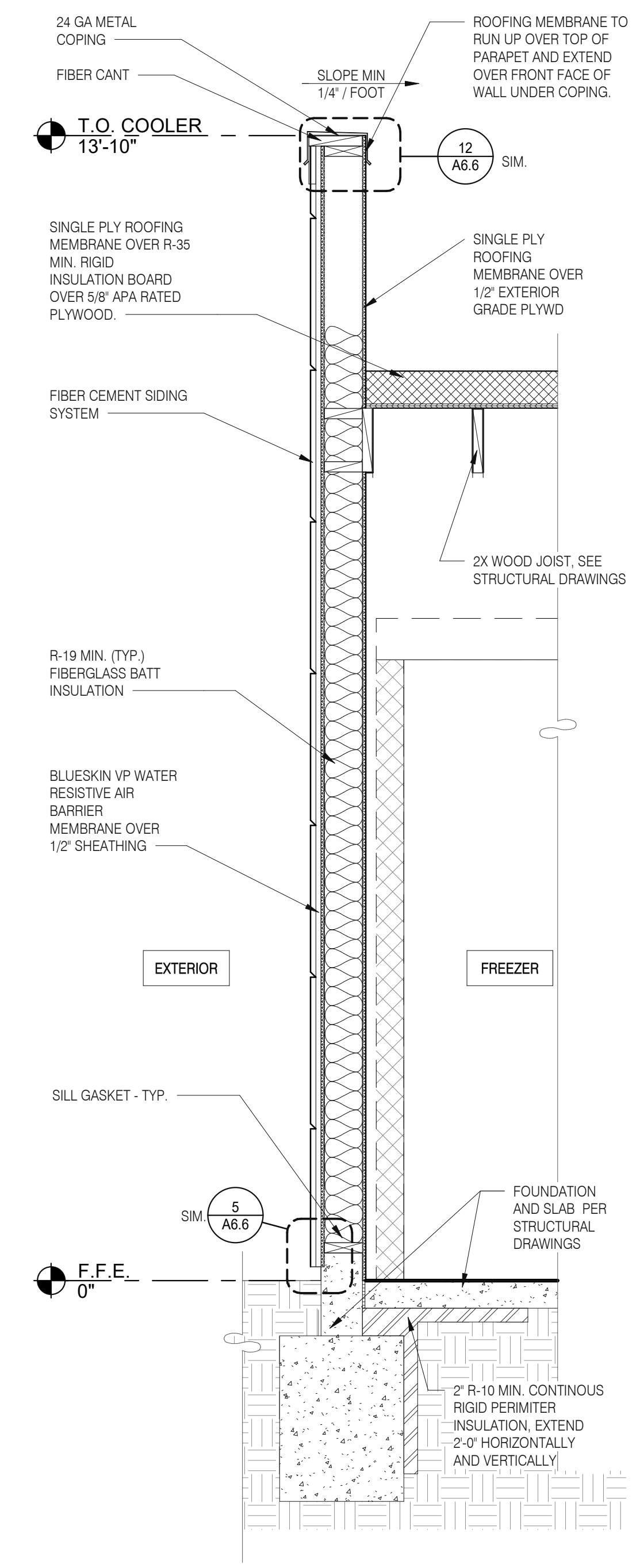


ENDEAVOR 2.0 WALL SECTIONS

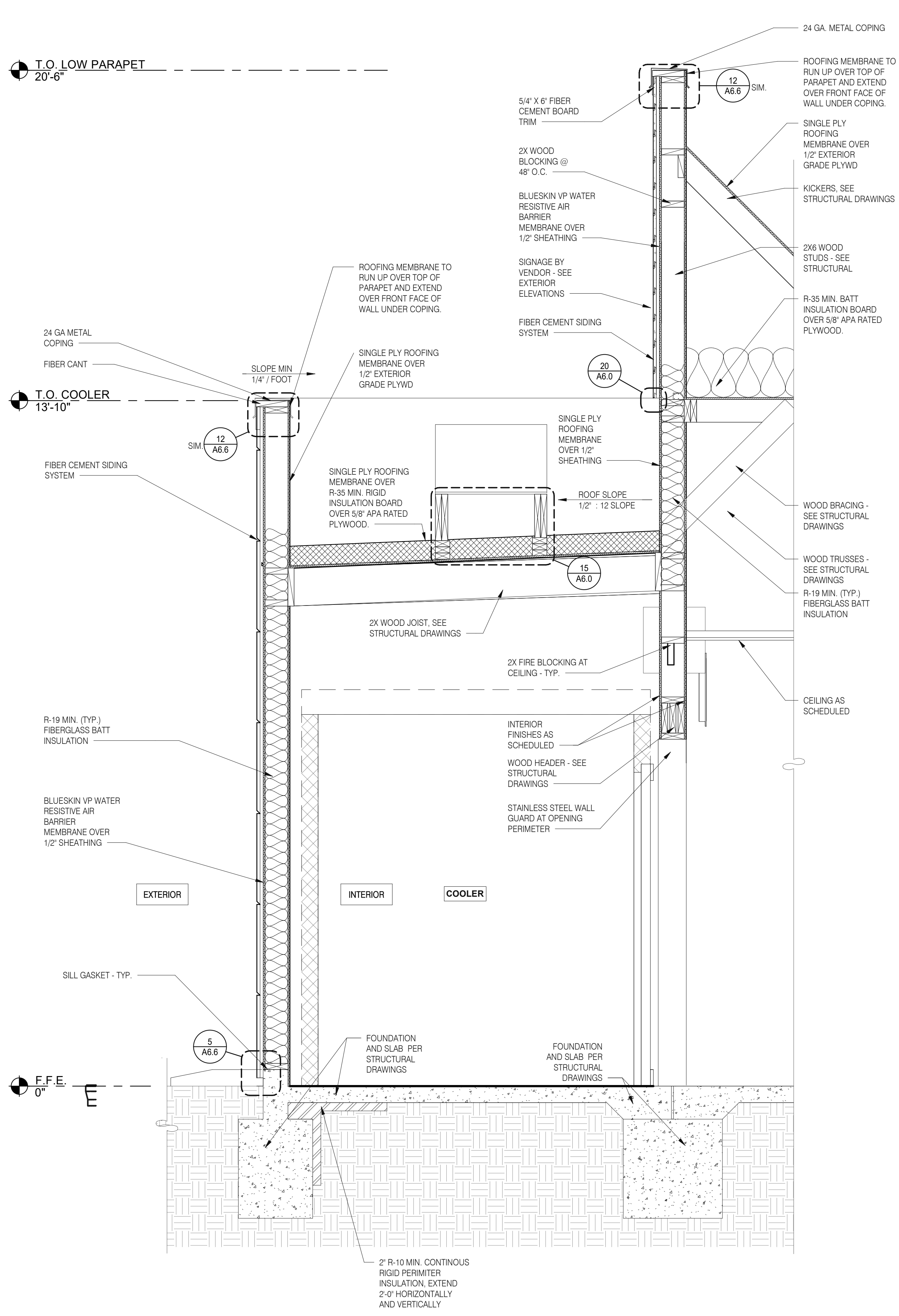
A5.3



WALL SECTION AT STOREFRONT 3/4" = 1'-0" **C**



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



WALL SECTION AT COOLER 3/4" = 1'-0" **A**

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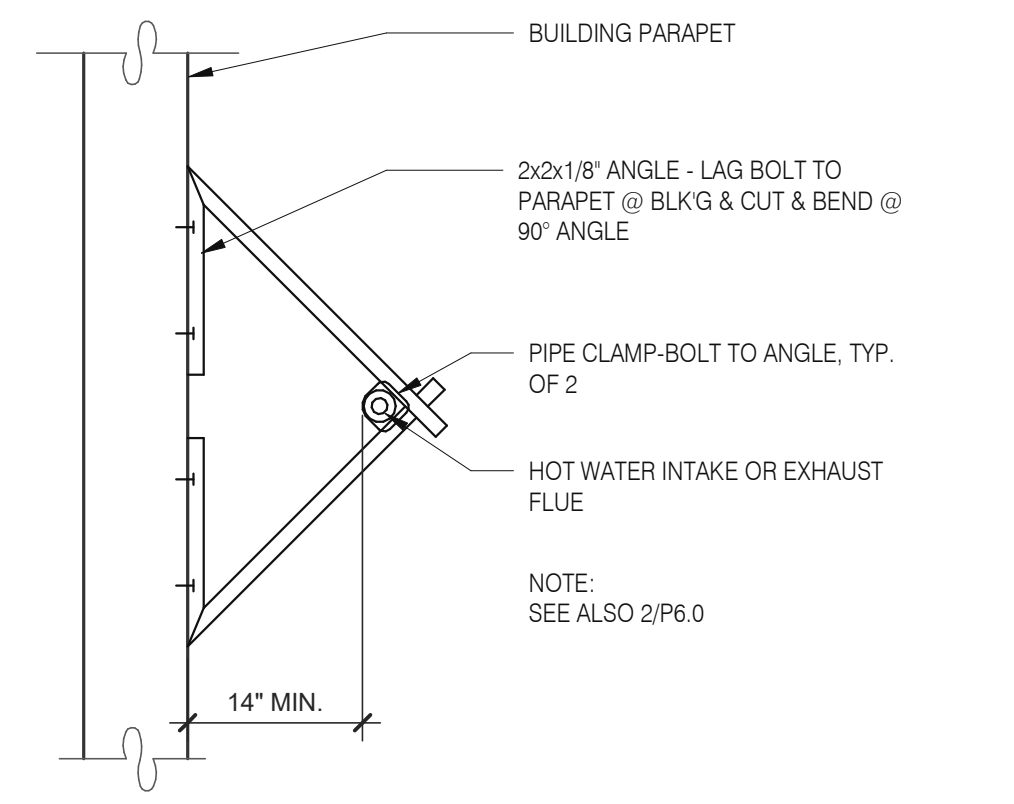
CONTRACT DATE: 06.22.21
BUILDING TYPE: END. MED20
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SITE NUMBER: 315089
STORE NUMBER: 40164
PA/PM: SM
DRAWN BY.: RS
JOB NO.: 2019088.31

TACO BELL
18708 TELEGRAPH ROAD
BROWNSTOWN, MI 48183

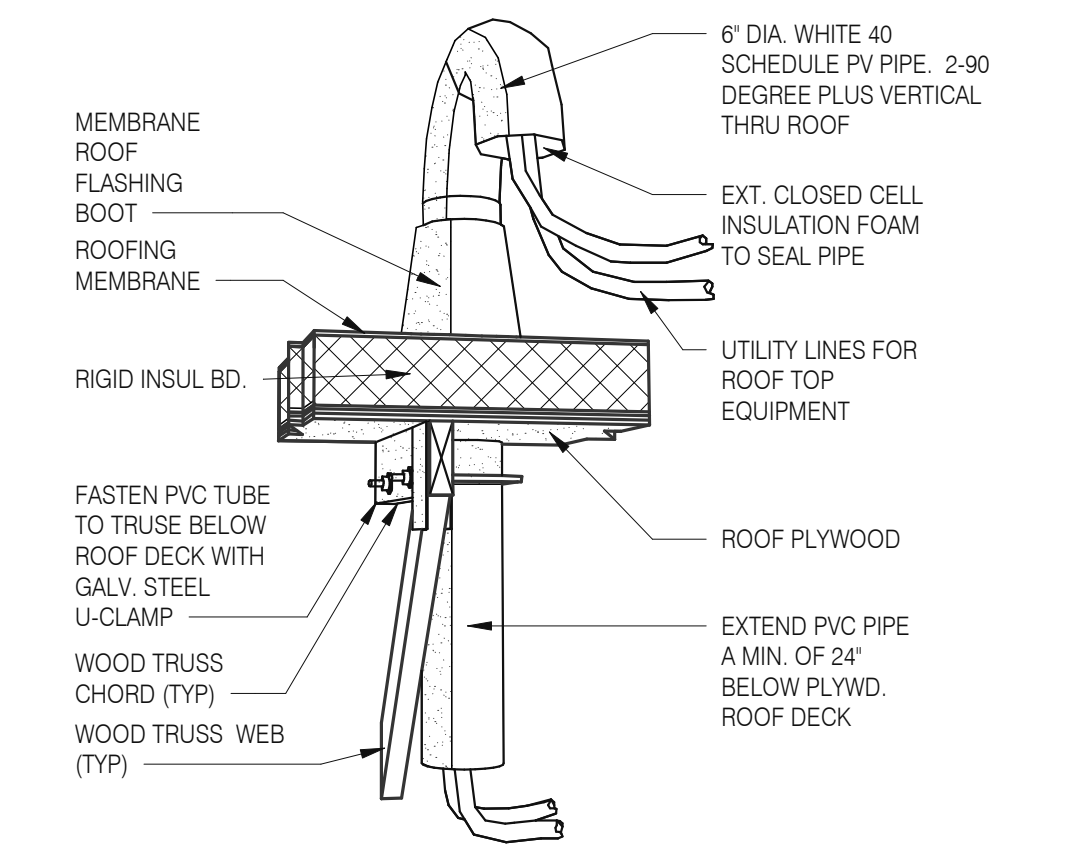


ENDEAVOR 2.0
WALL SECTIONS

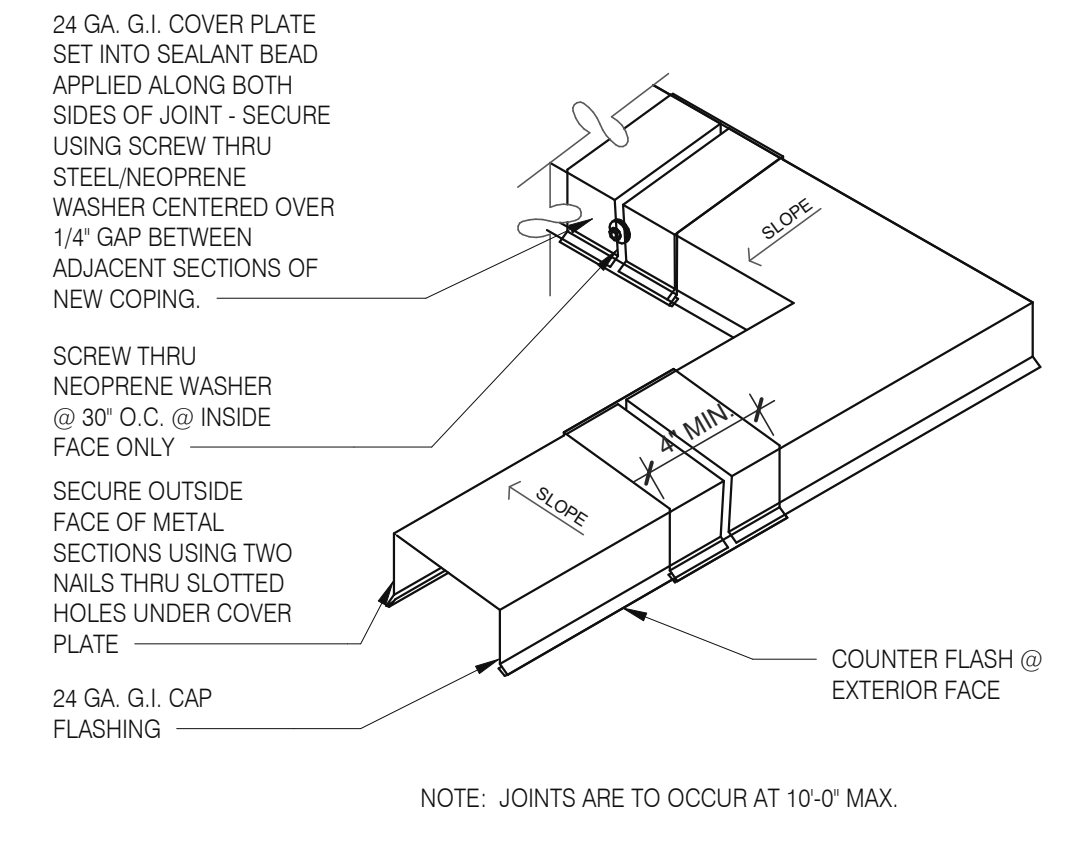
A5.4



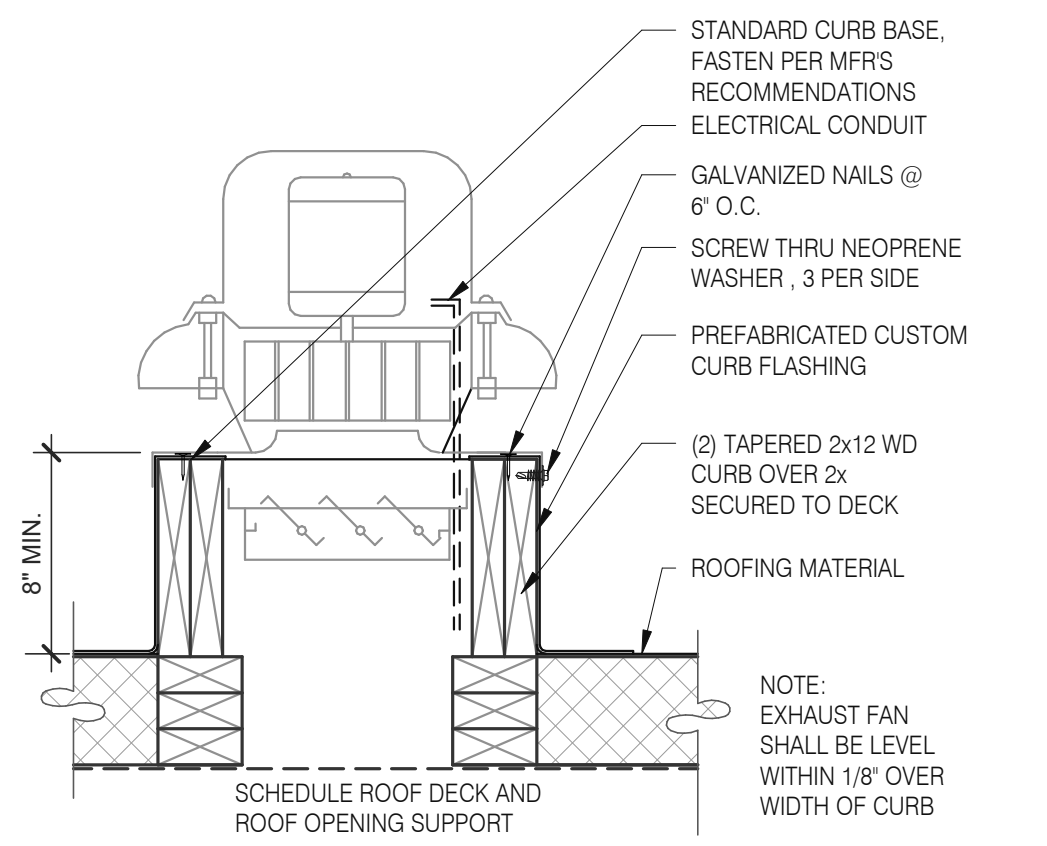
W.H. FLU / INTAKEN PIPE SUPPORT 3" = 1'-0" 13



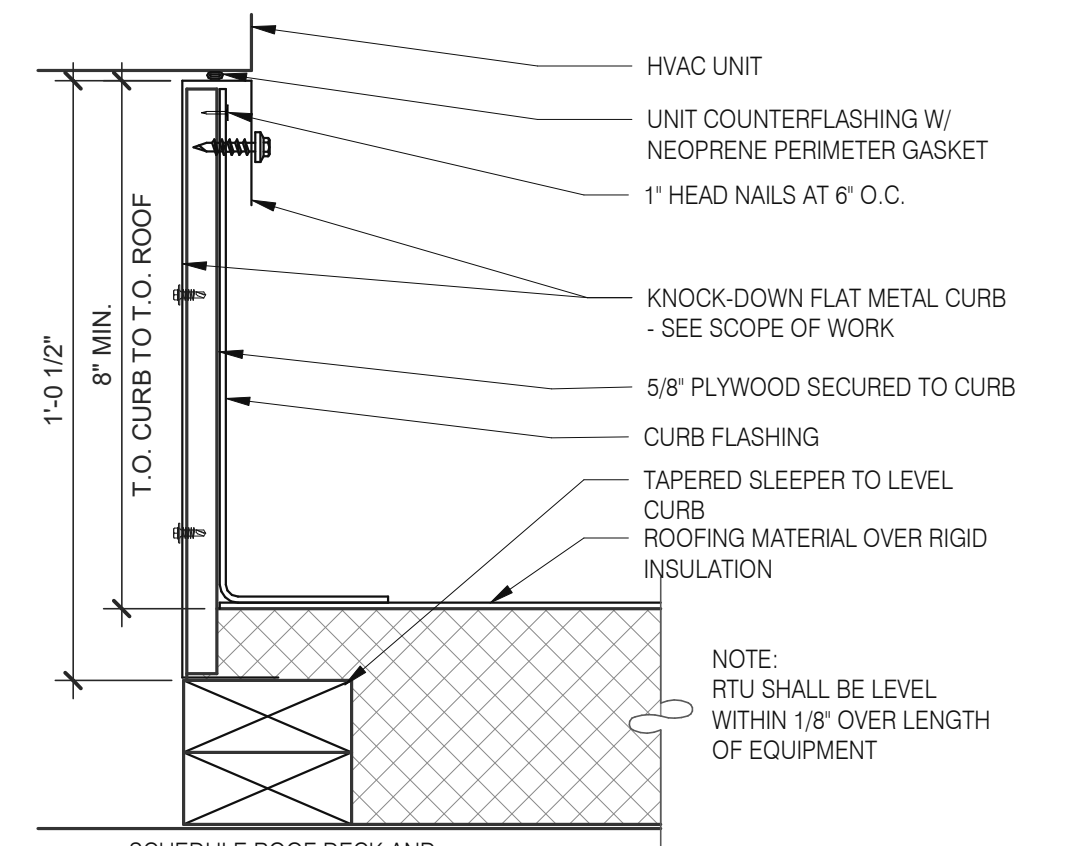
PIPE HOOD N.T.S. 9



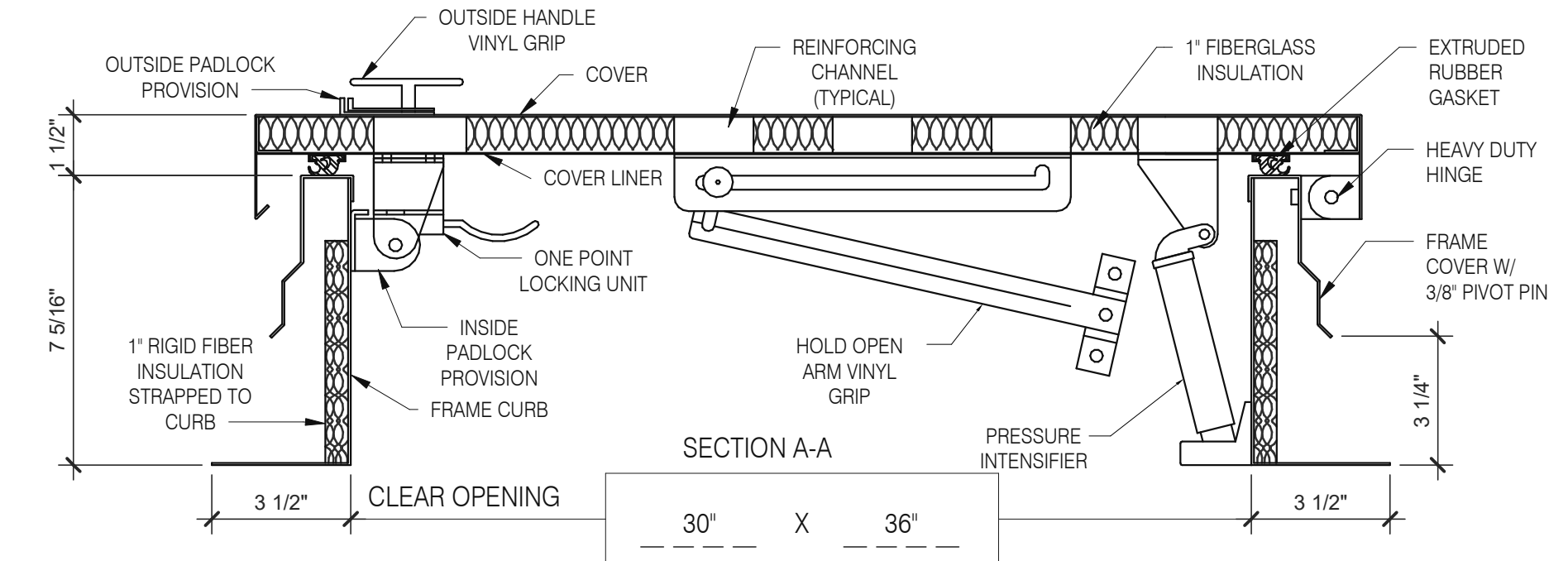
COPING JOINT N.T.S. 5



EXHAUST FAN CURB 3" = 1'-0" 18



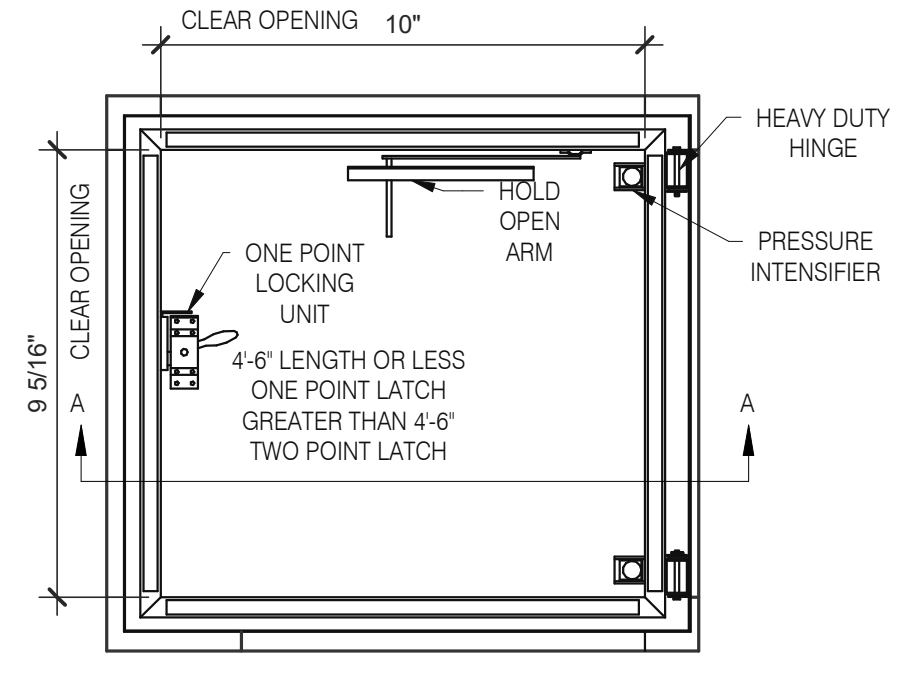
HVAC CURB 3" = 1'-0" 14



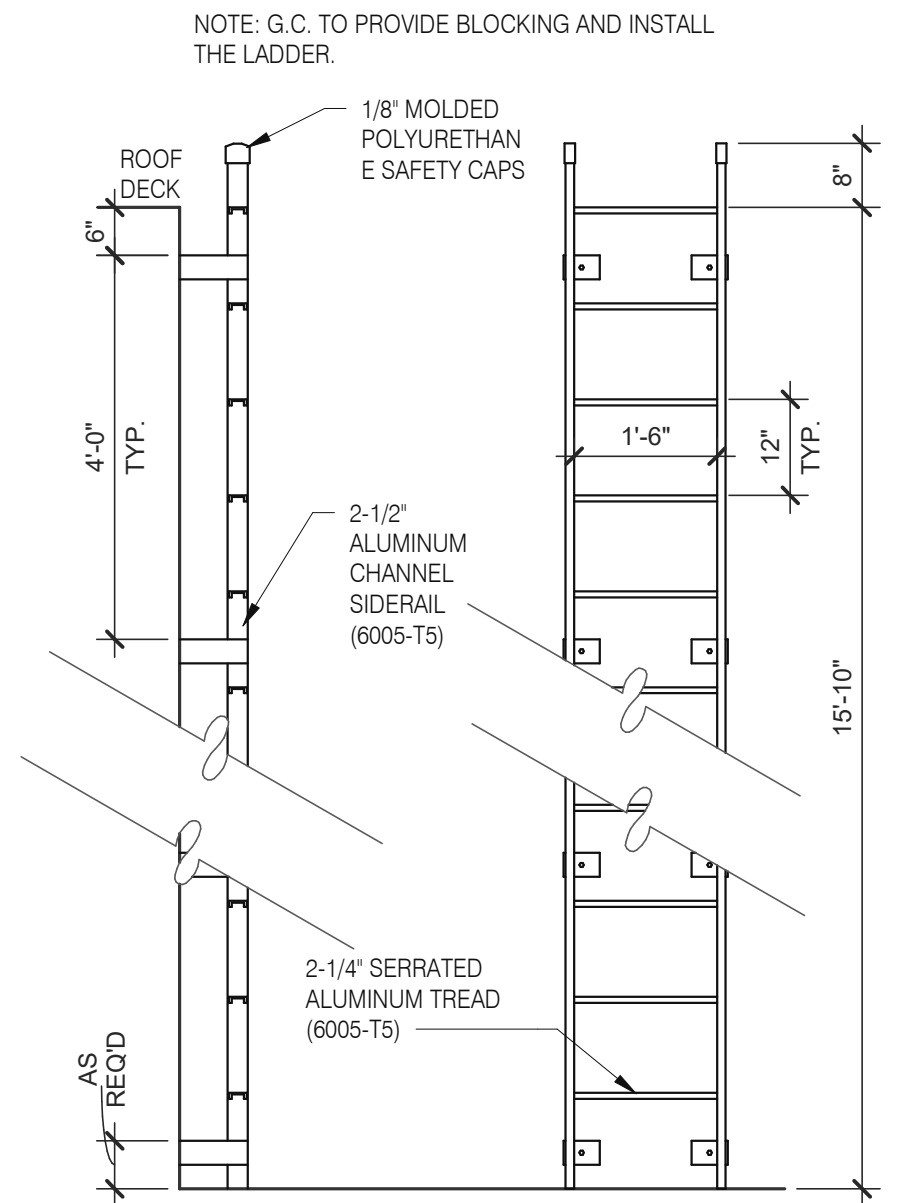
HATCH MATERIAL:
GALVANIZED STEEL (PRIME PAINTED)
COVER - 14 GA. GALV. STEEL
FRAME COVER - 14 GA. GALV. STEEL
FRAME CURB - 14 GA. GALV. STEEL
COVER LINER - 22 GA. GALV. STEEL

HATCH FINISH:
GALV - PRIME PAINTED

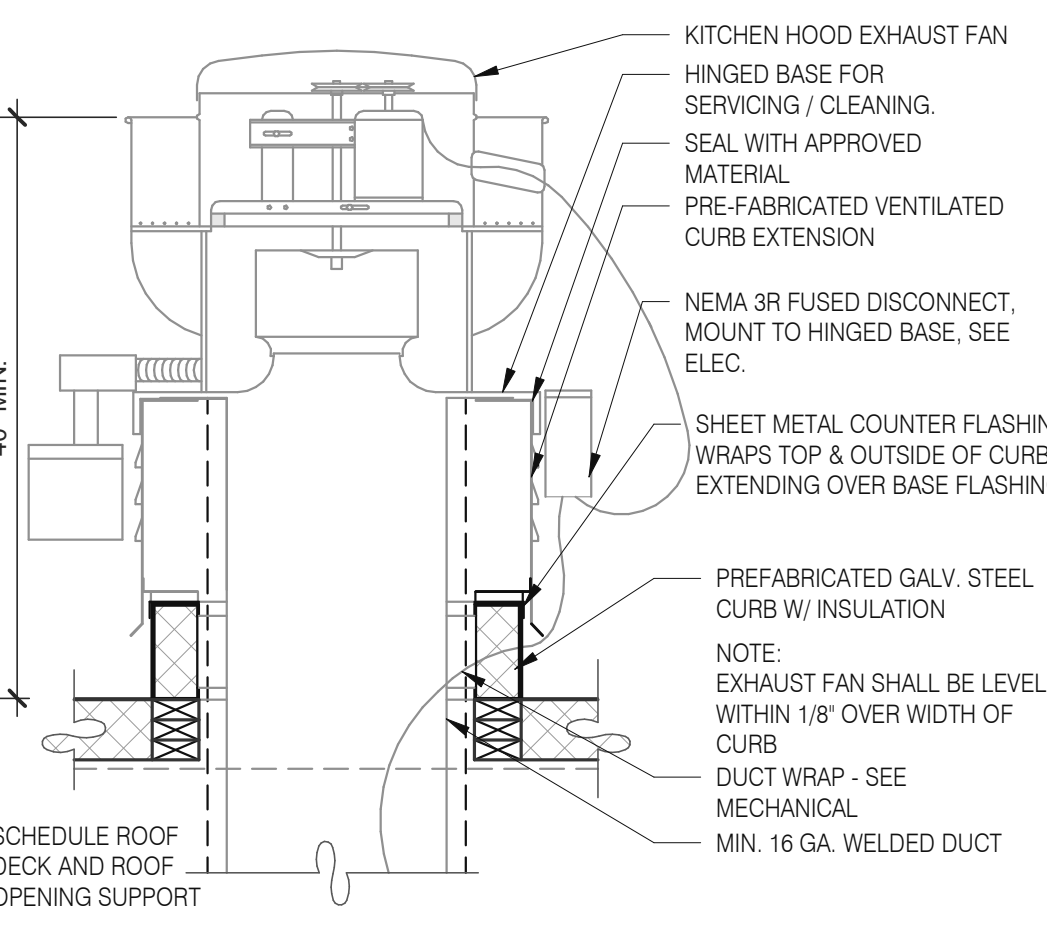
MANUFACTURER:
PRECISION LADDERS, LLC OR EQUAL



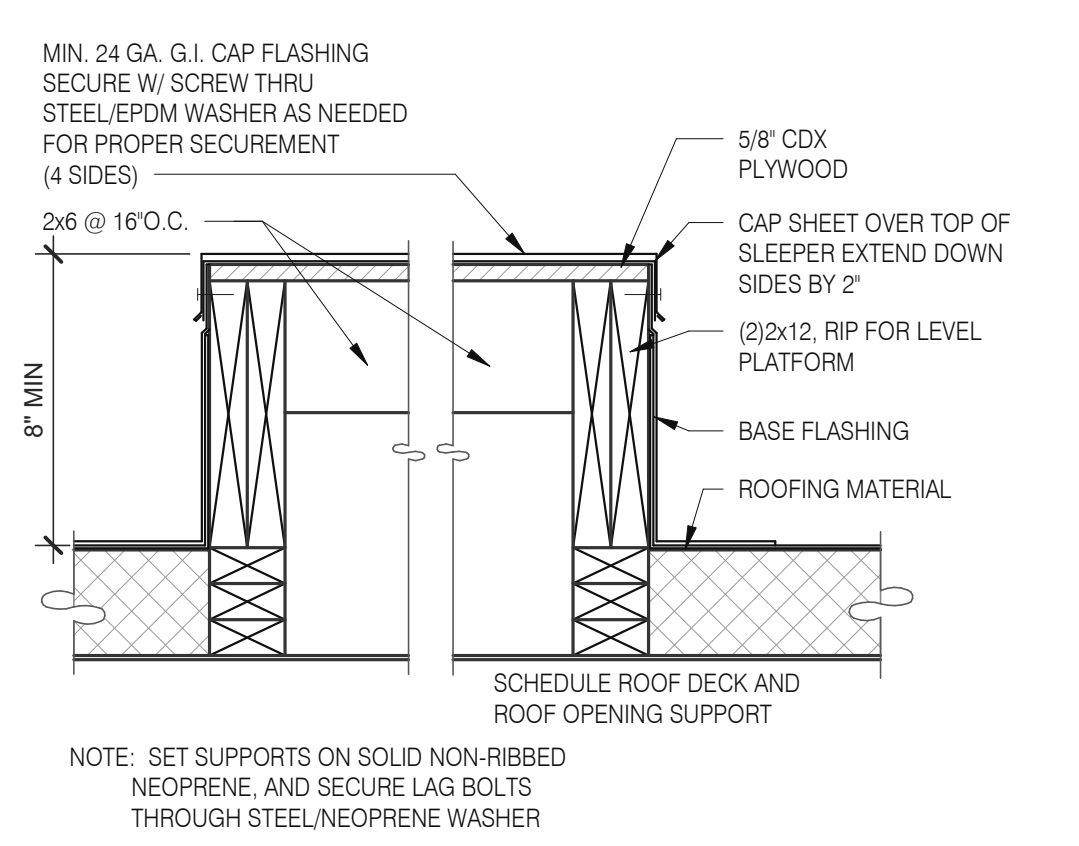
NOTES:
(1) ALL MOUNTING HARDWARE TO BE SUPPLIED BY OTHERS.
(2) FOR OPERATING EFFICIENCY, HATCH HARDWARE VARIES BY SIZE.
EXAMPLE MODEL#: PH- A/G OPENING SIZE IN FEET-INCHES (PH-G2630)



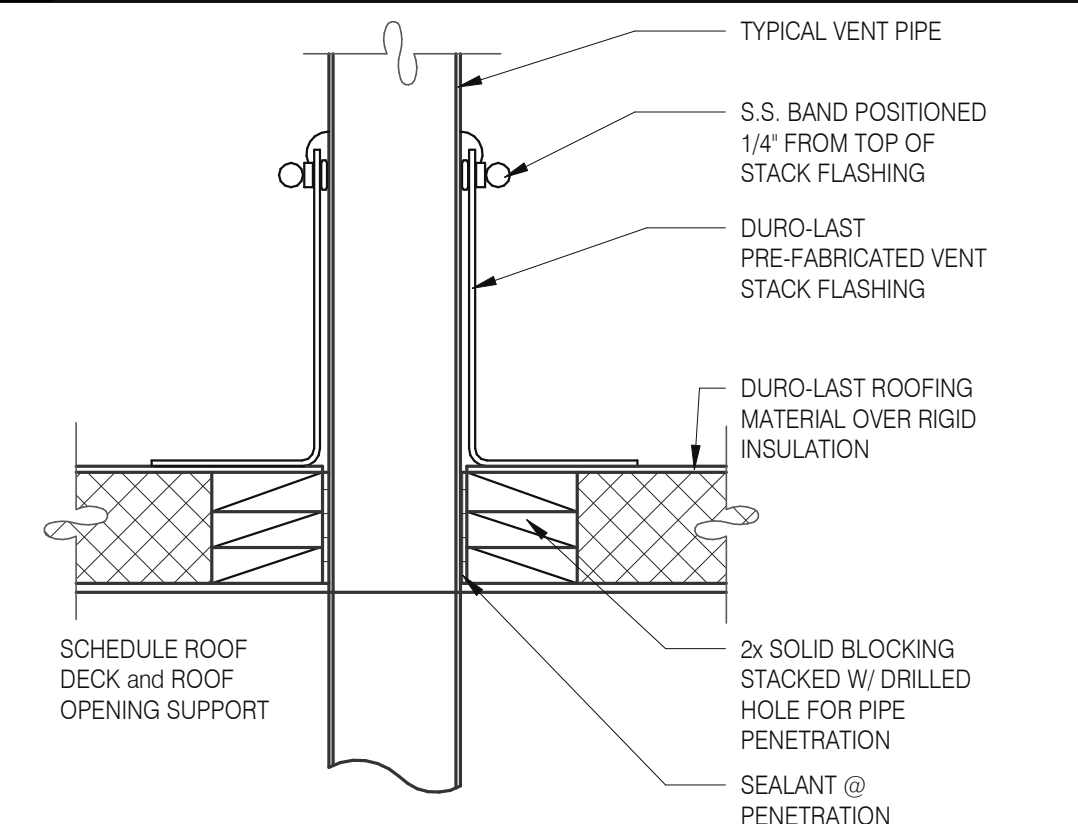
ROOF LADDER AND HATCH 3" = 1'-0" 7



EXHAUST FAN CURB 3" = 1'-0" 19



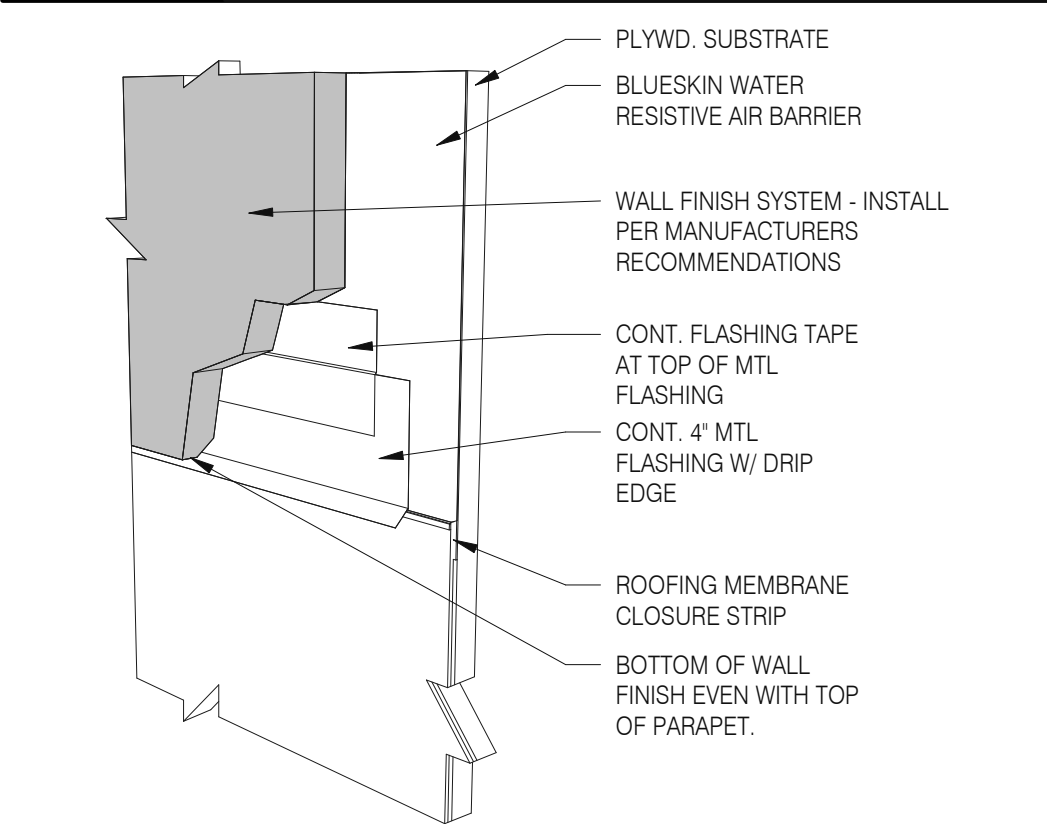
EQUIPMENT PLATFORM SUPPORT 3" = 1'-0" 15



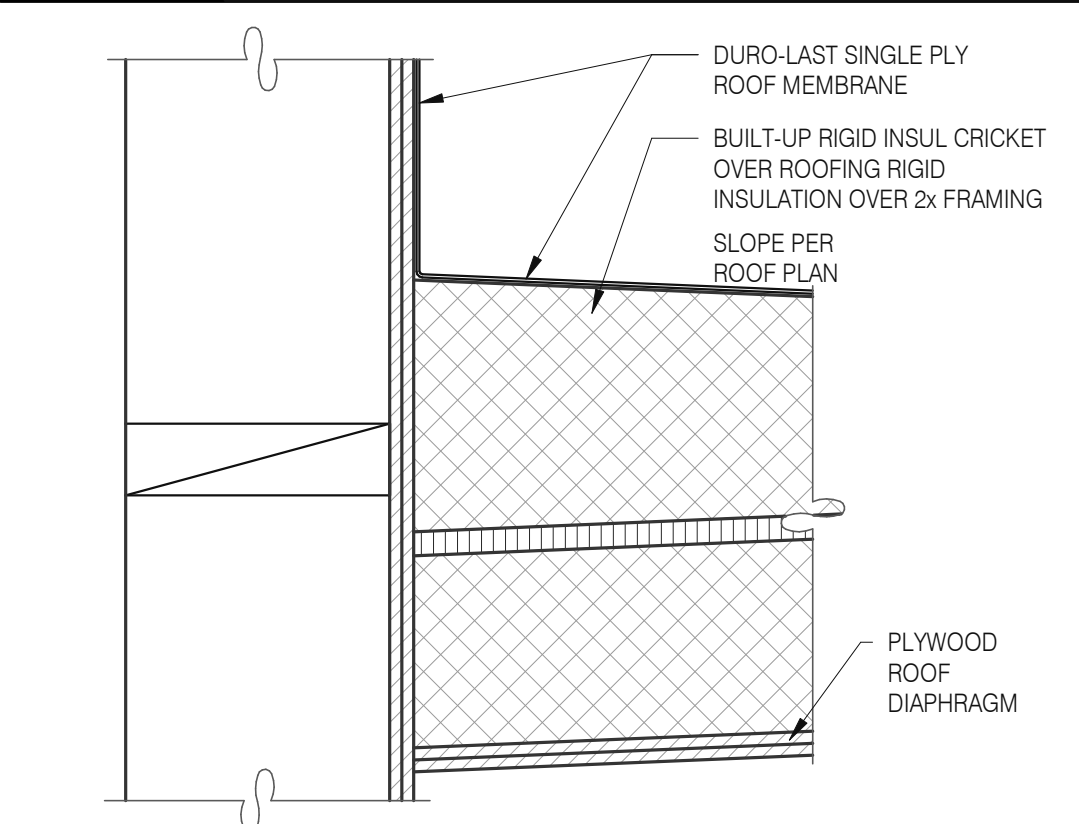
SEALED PIPE FLASHING 3" = 1'-0" 12



ROOF LADDER N.T.S. 4



WALL FINISH TO BASE FLASHING 3" = 1'-0" 20



CRICKET 3" = 1'-0" 16

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DRAWN BY.: RS
JOB NO.: 2019088.31

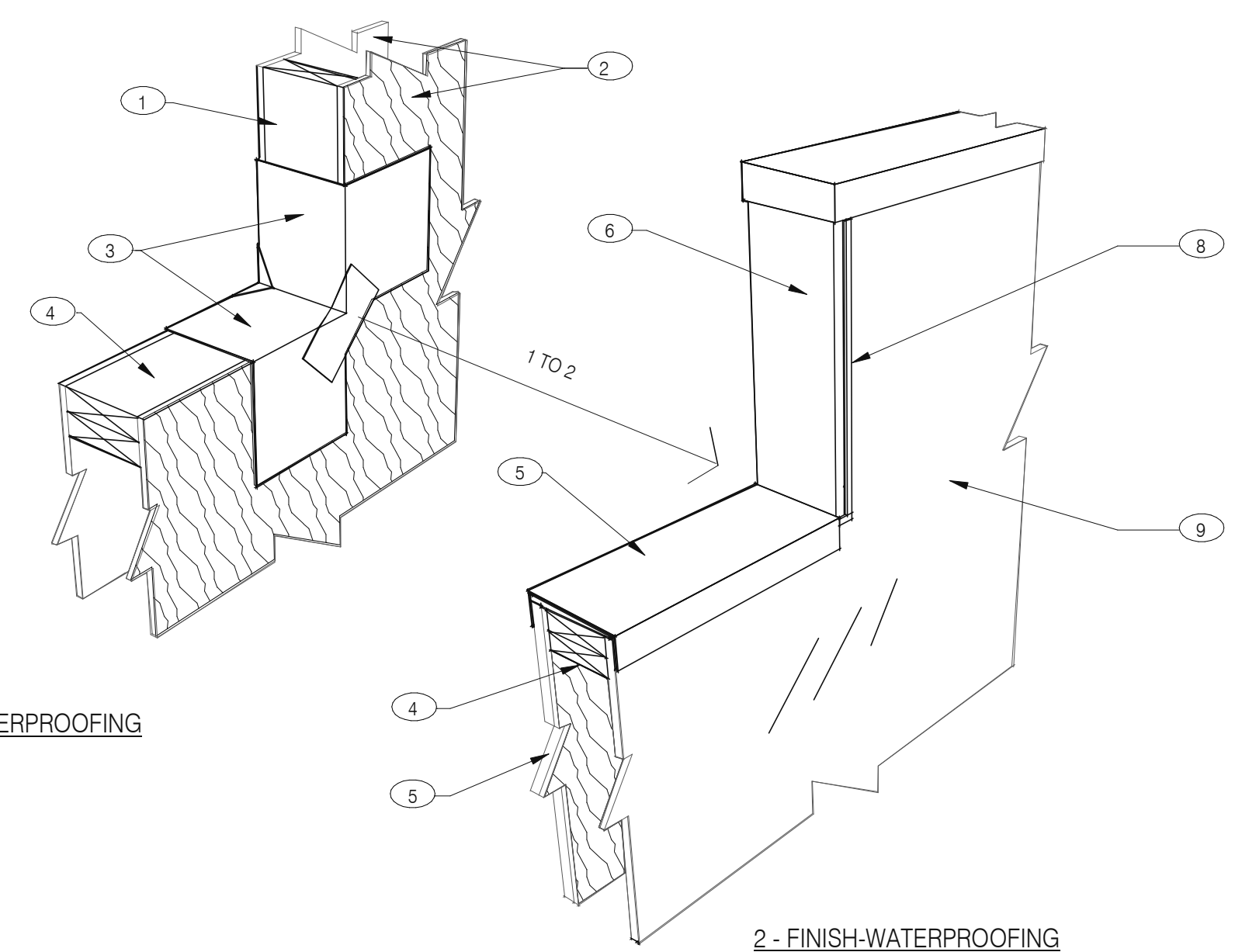
TACO BELL
18708 TELEGRAPH ROAD
BROWNSTOWN, MI 48183



**ENDEAVOR 2.0
CONSTRUCTION
DETAILS ROOF**

A6.0

PLOT DATE: 3/9/2022 10:27:27 AM



1 - PRE-WATERPROOFING

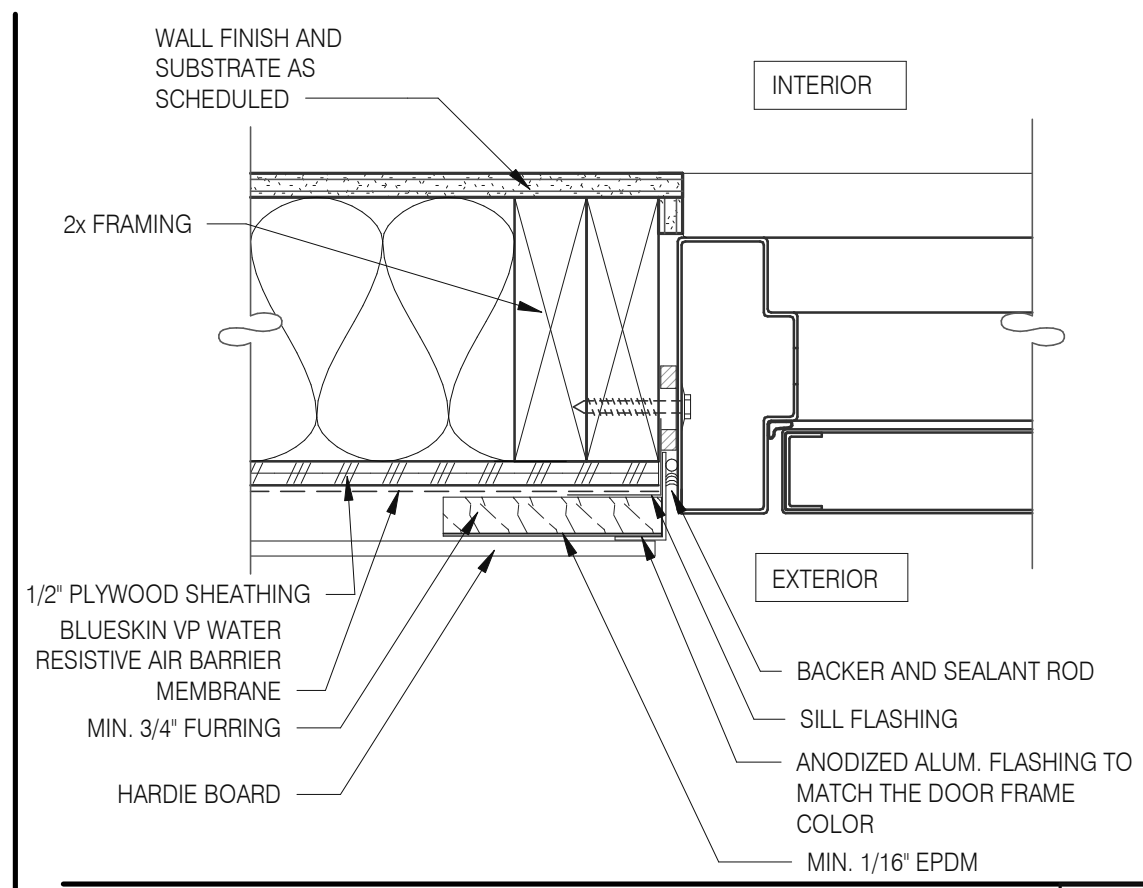
2 - FINISH-WATERPROOFING

NOTES

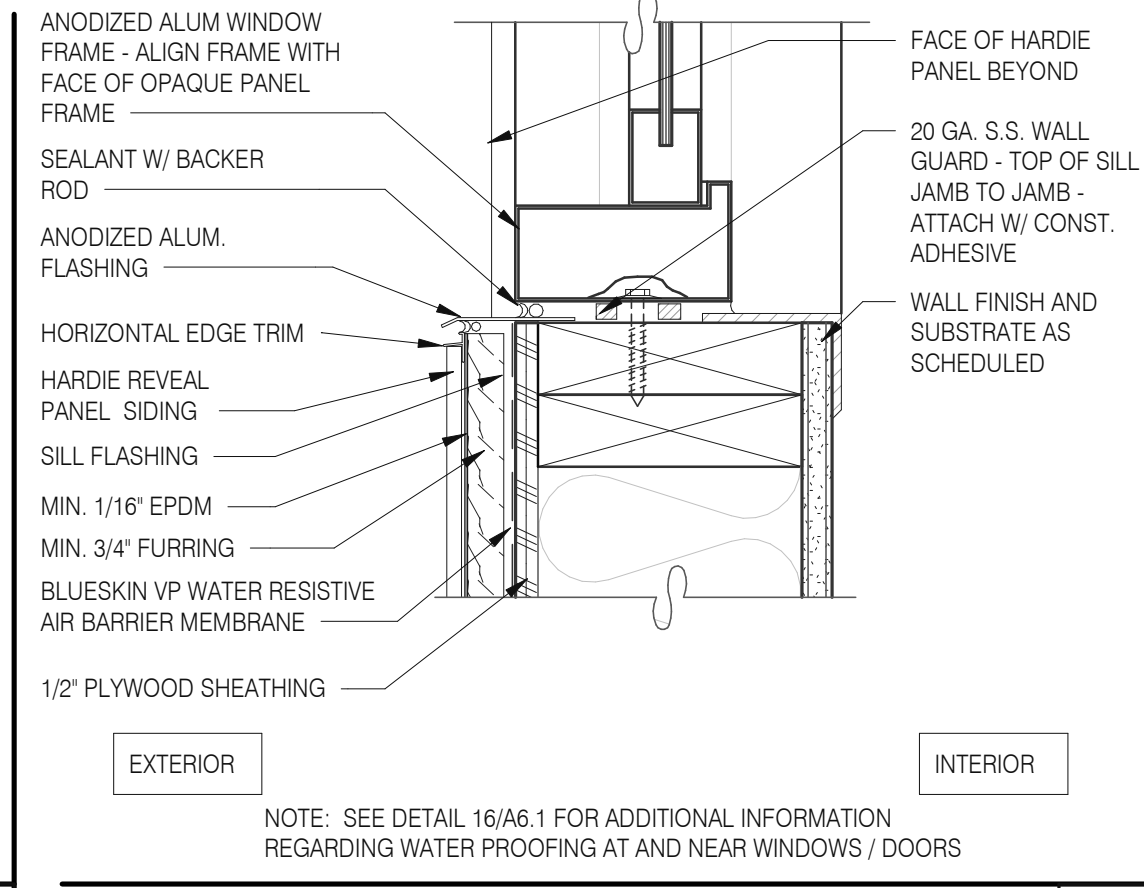
- ① 2X WOOD STUDS
- ② PLYWOOD SUBSTRATE FOR EXTERIOR WALLS
- ③ FLASHING TAPE AT ALL VERTICAL PARAPET TRANSITIONS. EXTEND TAPE 12" OUTWARD AND UPWARD FROM CORNER AS SHOWN. LAP CORNERS WITH ANGLED TAPE AS SHOWN TO INSURE FULL COVERAGE AT CORNERS
- ④ DOUBLE 2X TOP PLATE.
- ⑤ PAINTED 24 GAUGE PARAPET COPING. SLOPE 1/4:1 TOWARDS ROOF WITH FIBER CANT STRIPS UNDER COPING. LAP FRONT AND BACK EDGE 2" DOWN VERTICAL FACE. LAP EXPOSED COPING EDGE EXPOSED ENDS AT VERTICAL PARAPET TRANSITION.
- ⑥ WRAP EXTERIOR FINISH MATERIAL ONTO VERTICAL FACE OF PARAPET TRANSITION. SEE EXTERIOR ELEVATIONS.
- ⑦ EXTERIOR FINISH MATERIAL AS NOTED ON EXTERIOR ELEVATIONS ON SHEET A4.0
- ⑧ TERMINATION BAR AT VERTICAL TRANSITION OF EXTERIOR FINISH MATERIAL AND MEMBRANE ROOFING. SEAL VERTICAL GAP BETWEEN TERMINATION BAR AND EXTERIOR FINISH PER ROOFING MANUFACTURER SPECIFICATIONS.
- ⑨ PVC ROOFING MEMBRANE ON BACKSIDE OF PARAPET.

IMPORTANT : ONLY FASTEN PARAPET COPING ALONG THE FRONT AND BACK VERTICAL EDGE. NEVER ON TOP OF COPING.

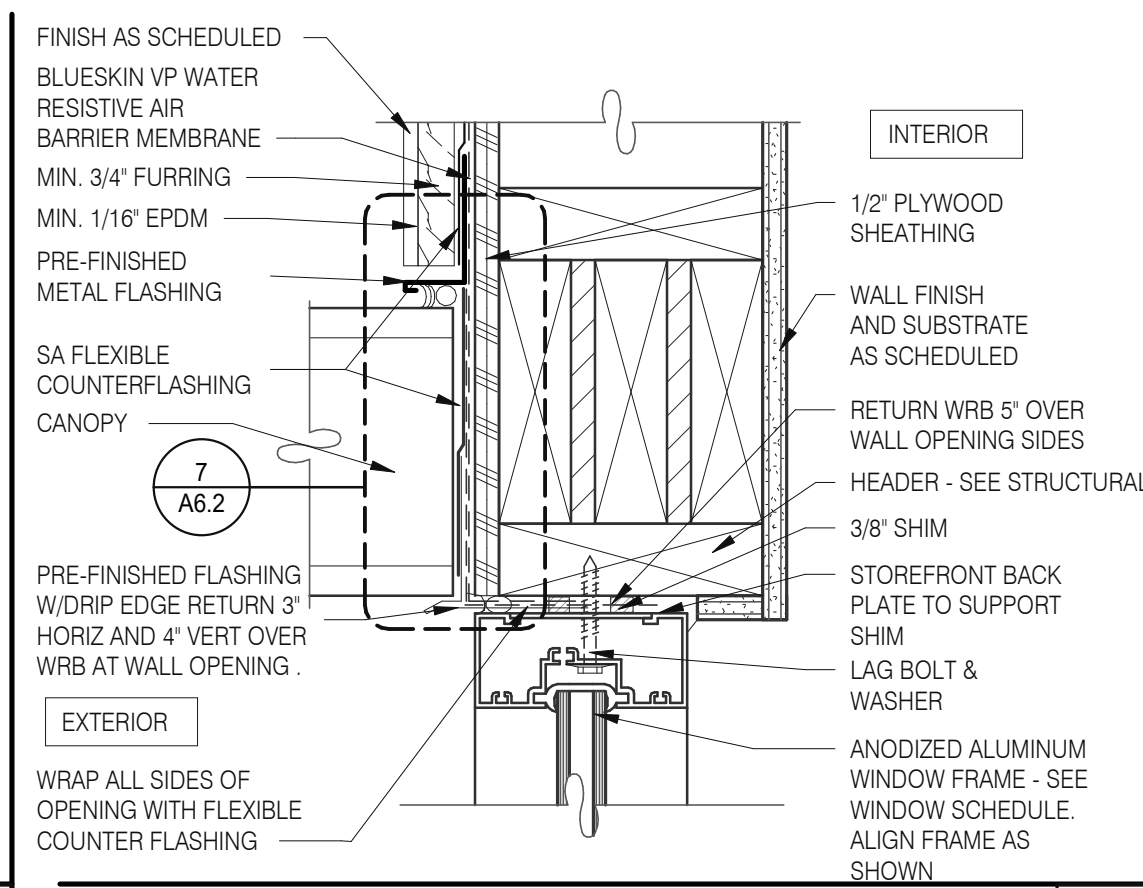
PARAPET CAP & TRANSITION 1" = 1'-0" 13



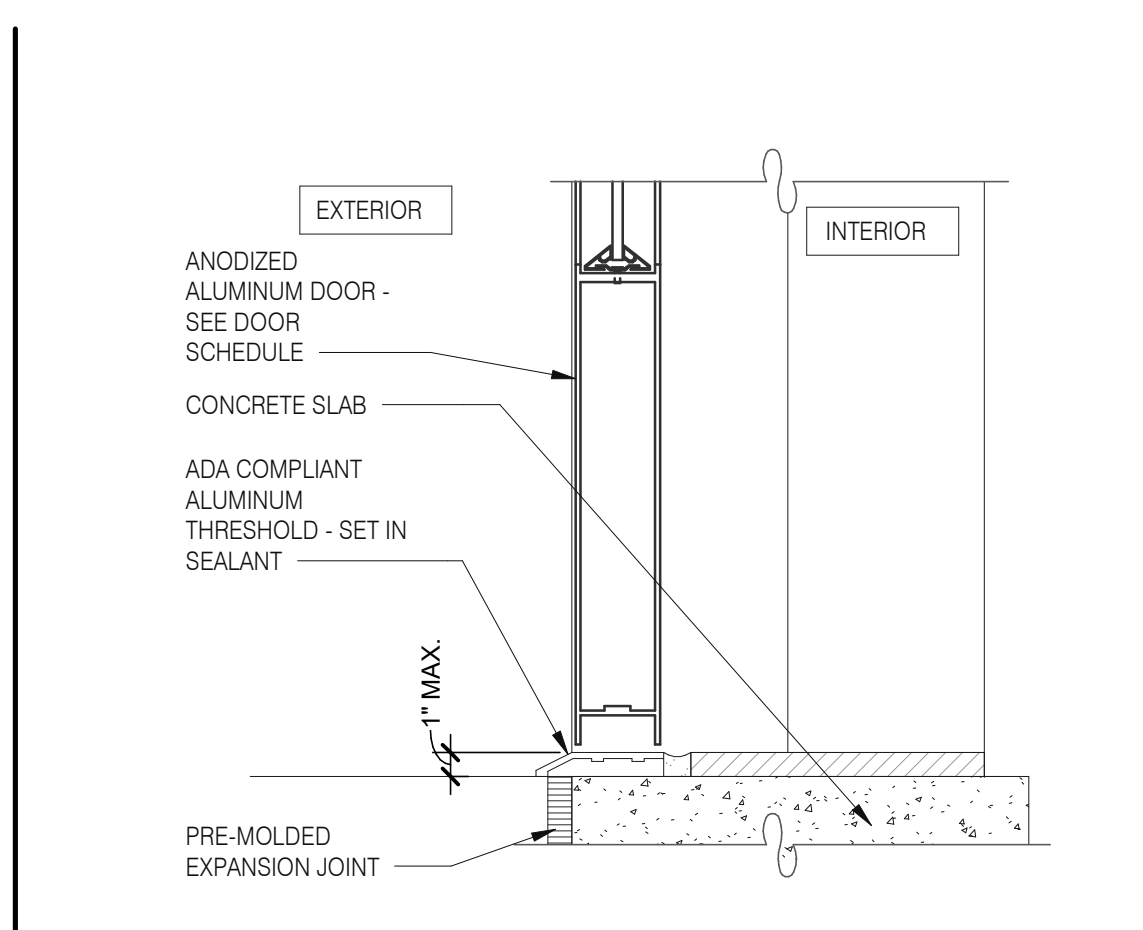
JAMB SERVICE DOOR 3" = 1'-0" 9



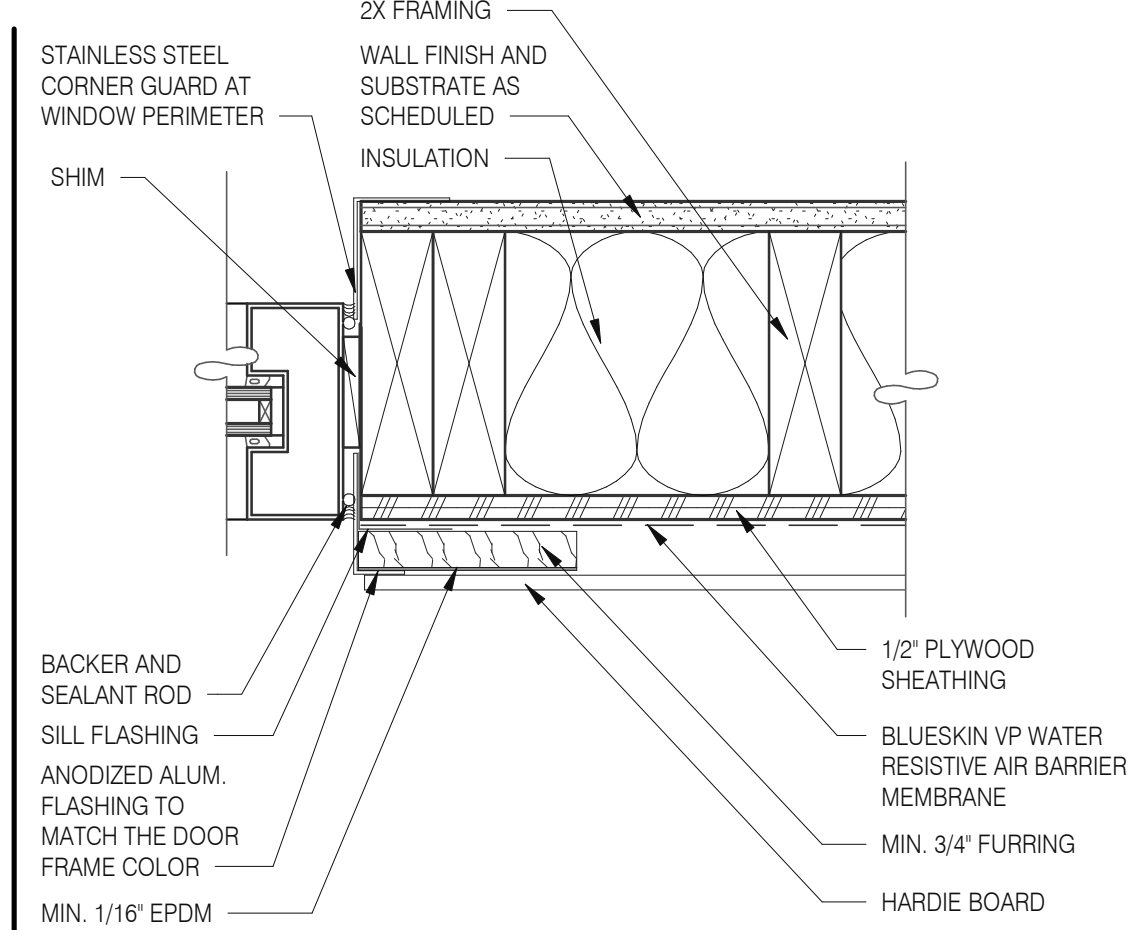
WINDOW SILL @ DRIVE THRU 3" = 1'-0" 5



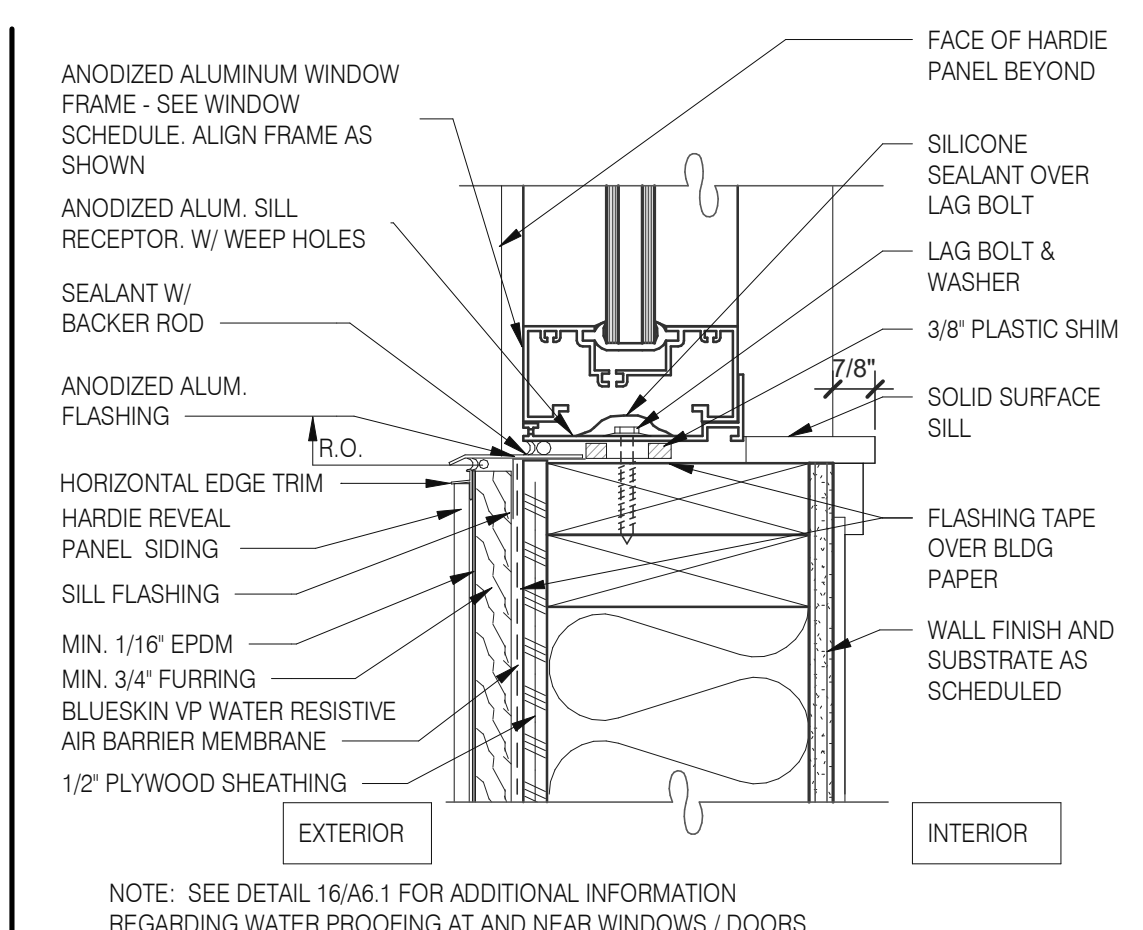
TYPICAL WINDOW HEAD W/ CANOPY 3" = 1'-0" 1



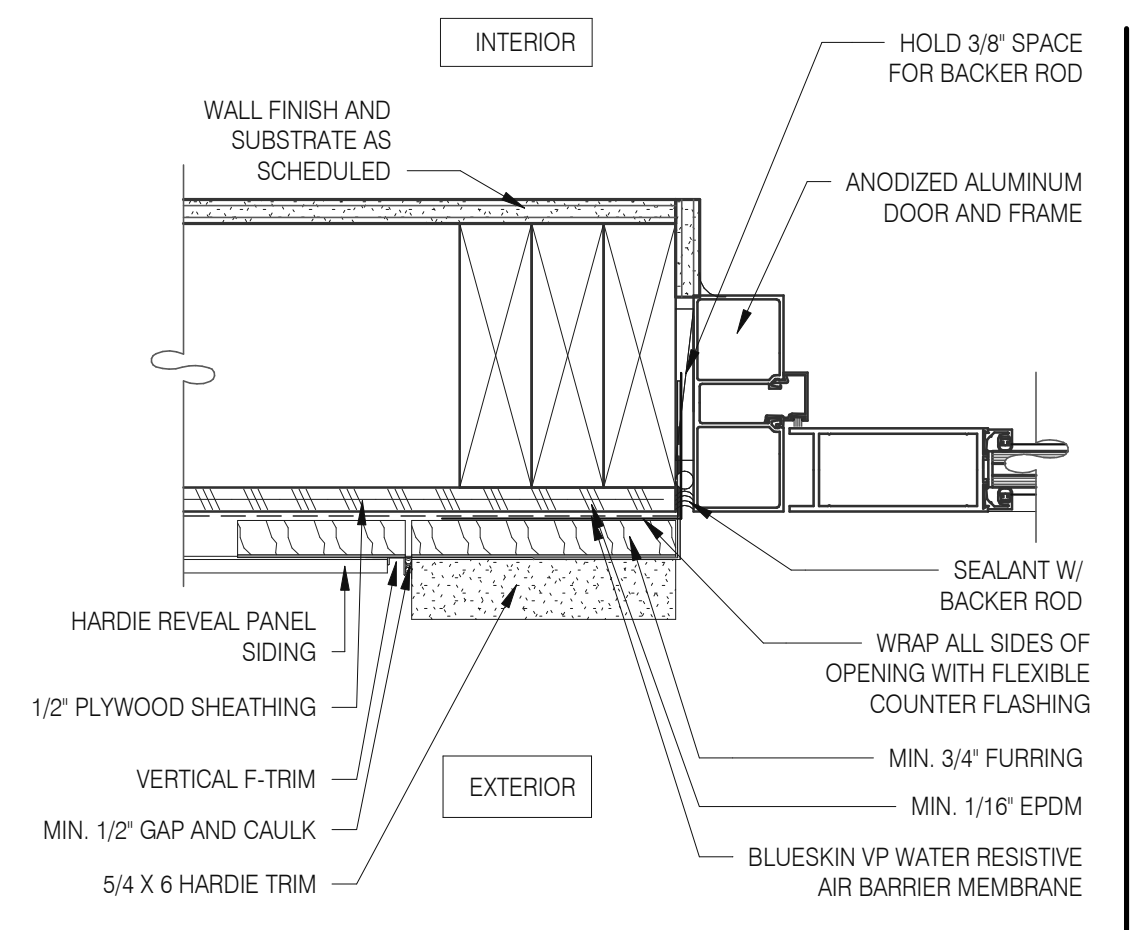
STOREFRONT DOOR SILL 3" = 1'-0" 10



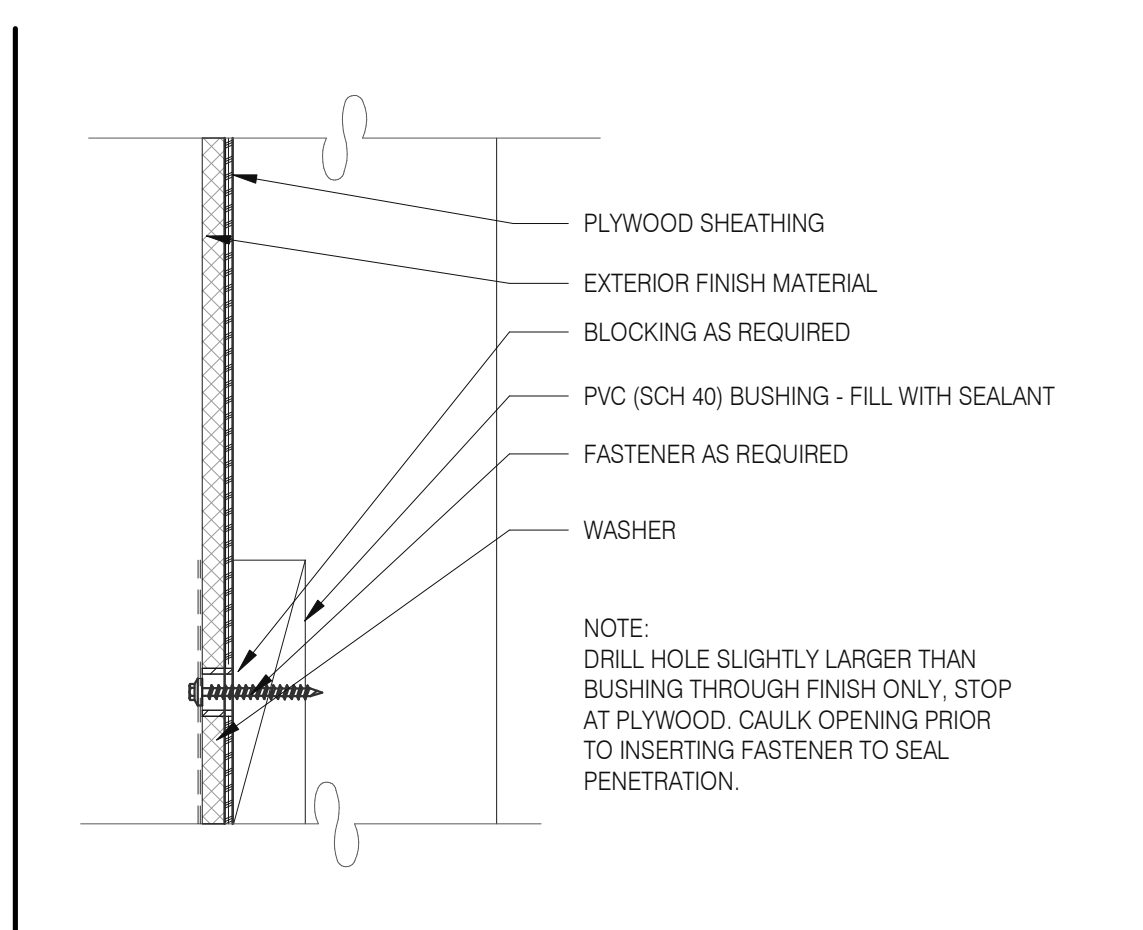
WINDOW JAMB @ DRIVE THRU 3" = 1'-0" 6



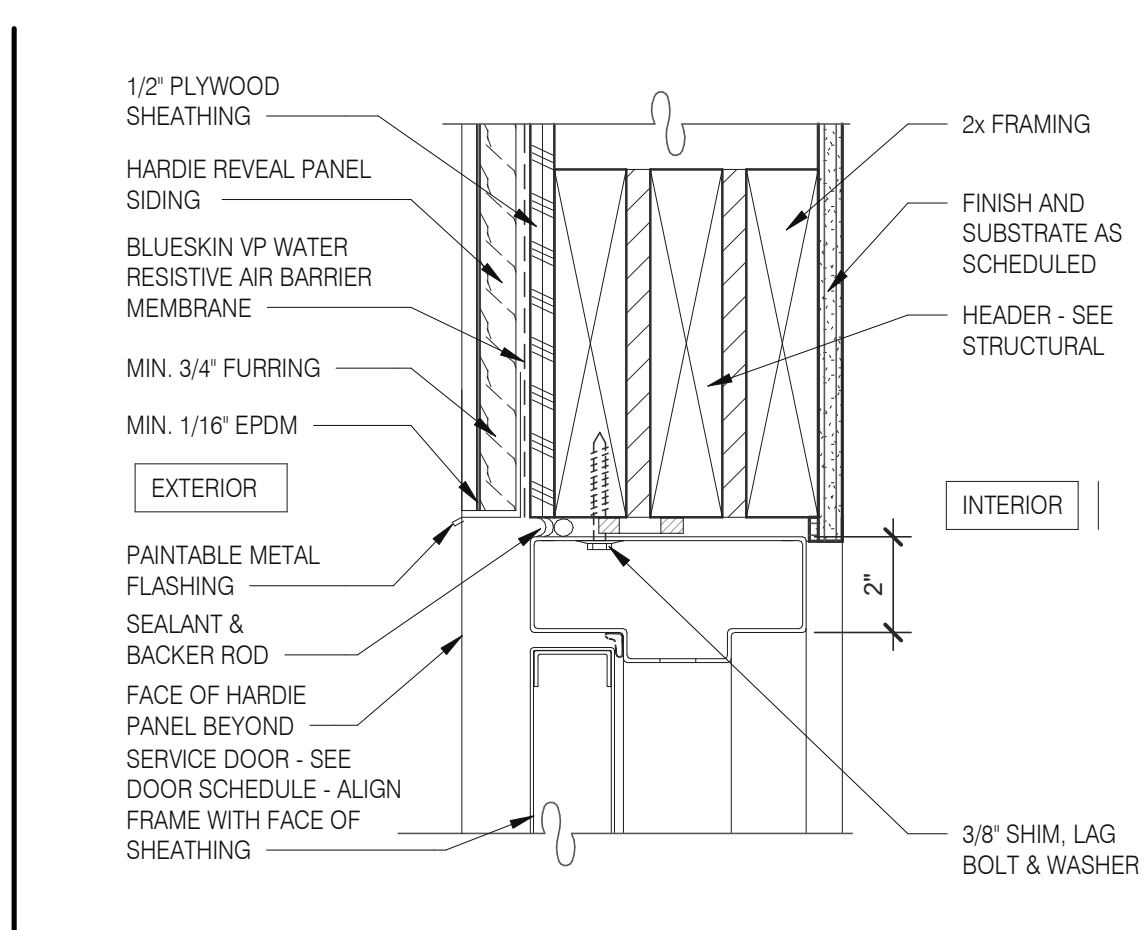
TYPICAL WINDOW SILL 3" = 1'-0" 2



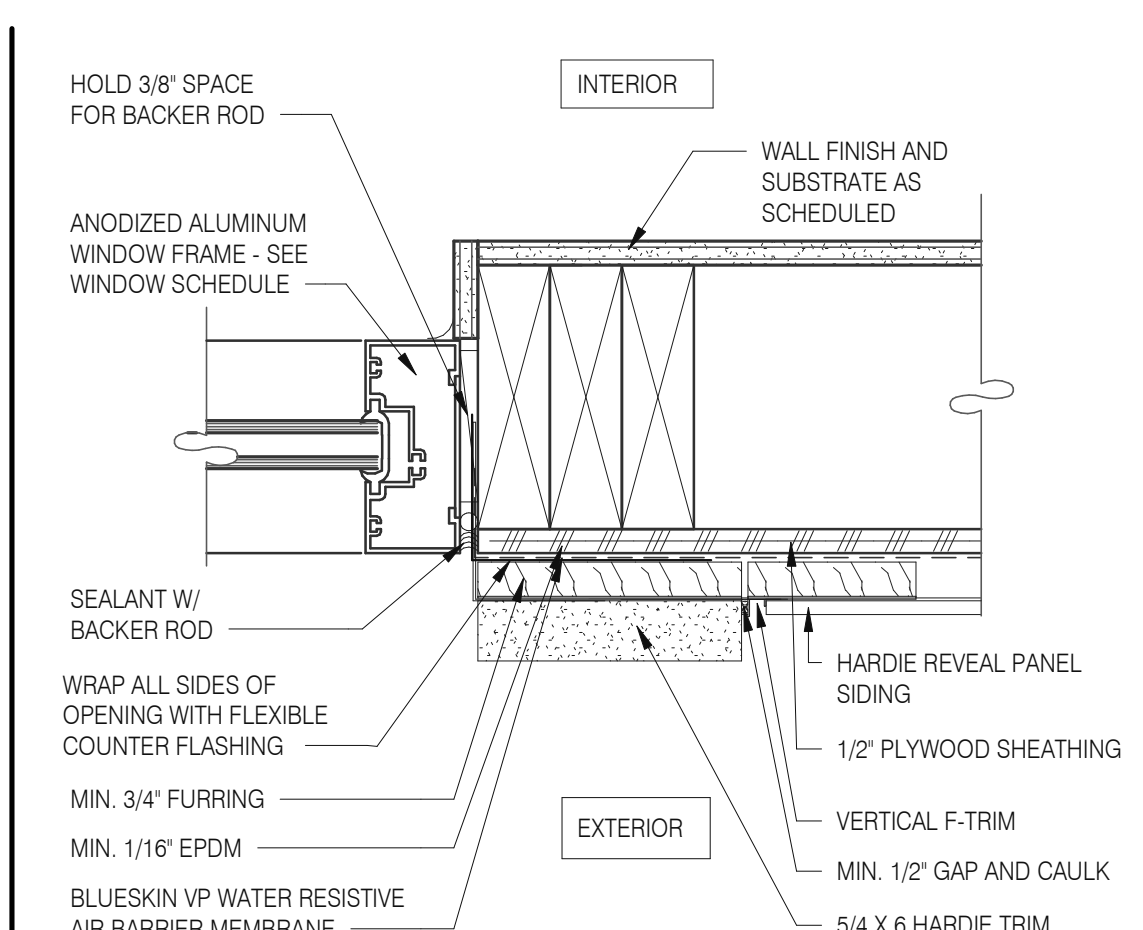
DOOR JAMB 3" = 1'-0" 16



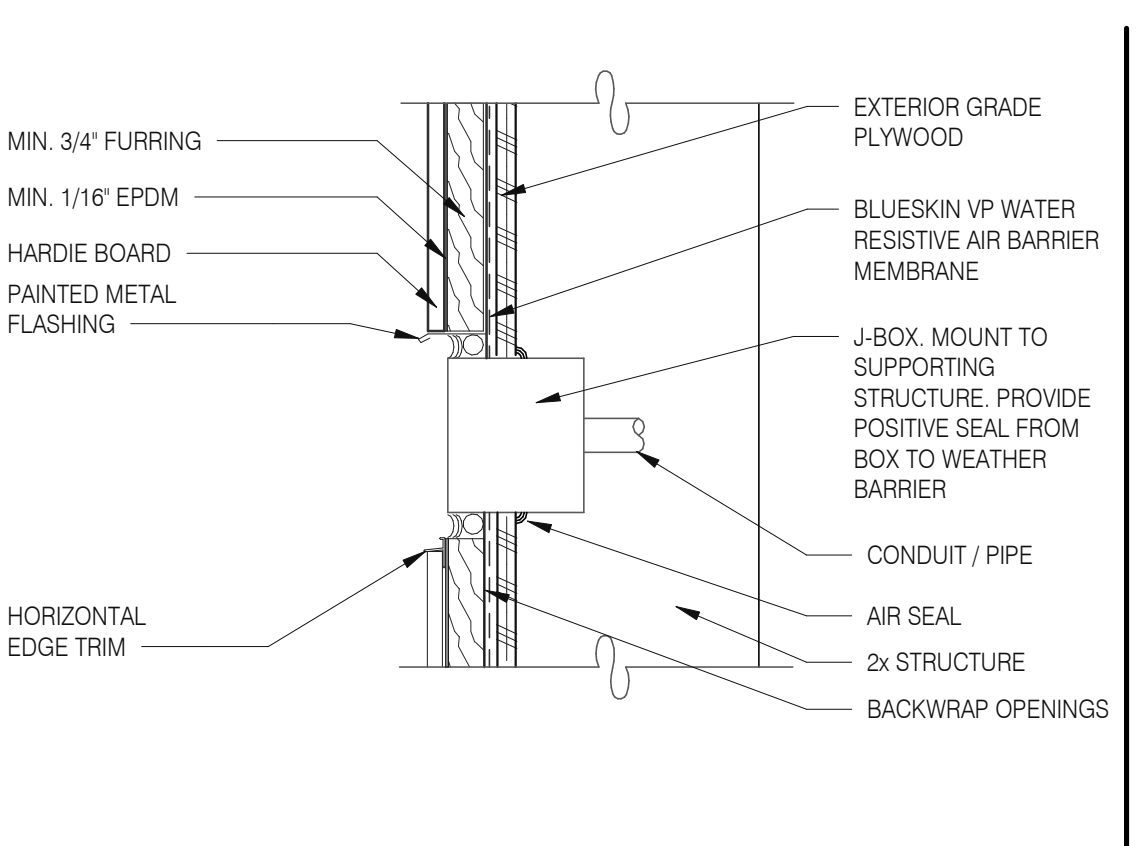
CONNECTION THRU EXT. FINISH 1" = 1'-0" 11



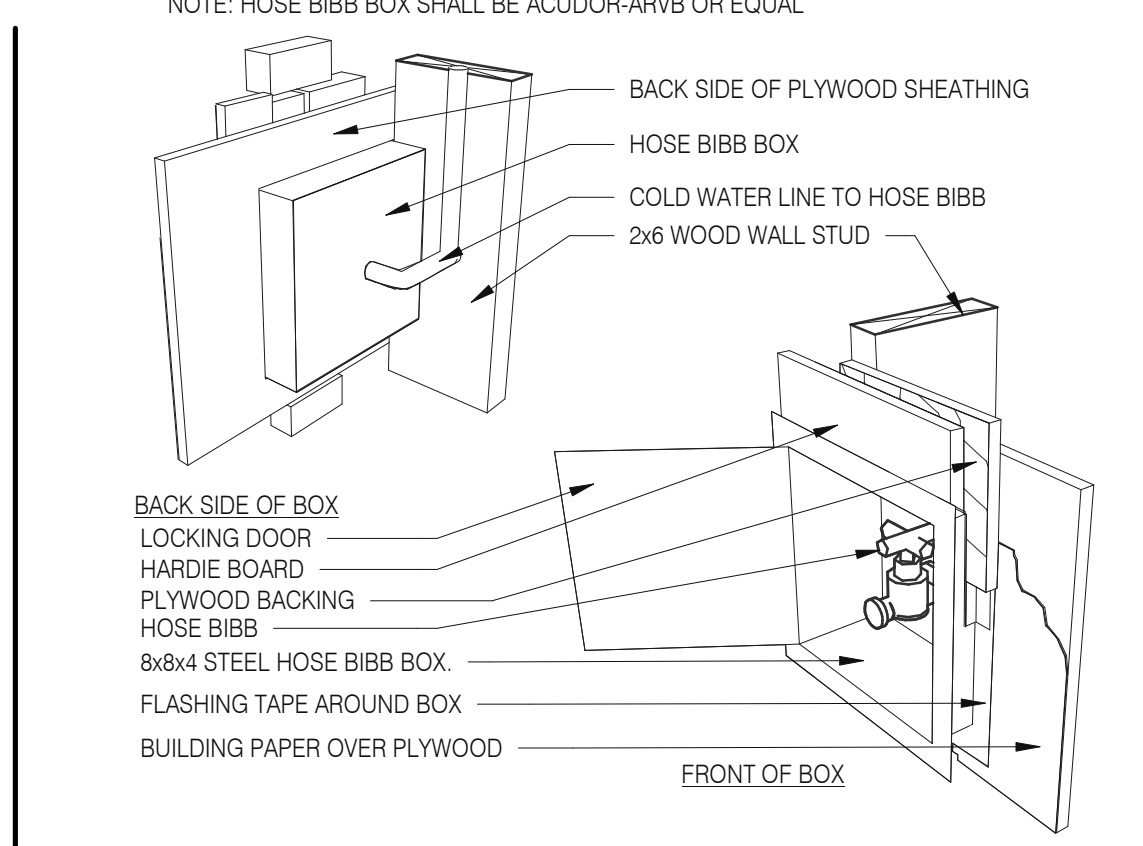
HEAD/ JAMB @ SERVICE DOOR 3" = 1'-0" 7



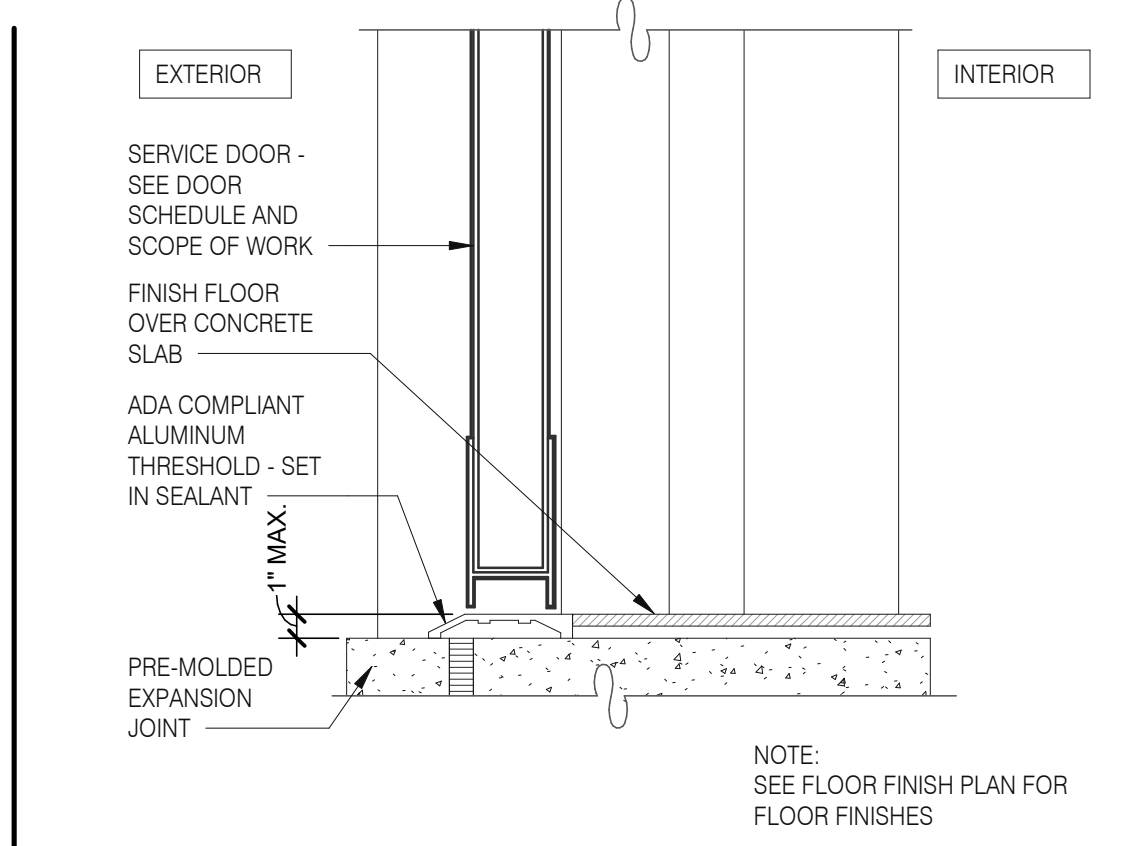
TYPICAL WINDOW JAMB 3" = 1'-0" 3



CO2 FILL / J-BOX 3" = 1'-0" 17



HOSE BIBB BOX 3" = 1'-0" 12



THRESHOLD @ SERVICE DOOR 3" = 1'-0" 8

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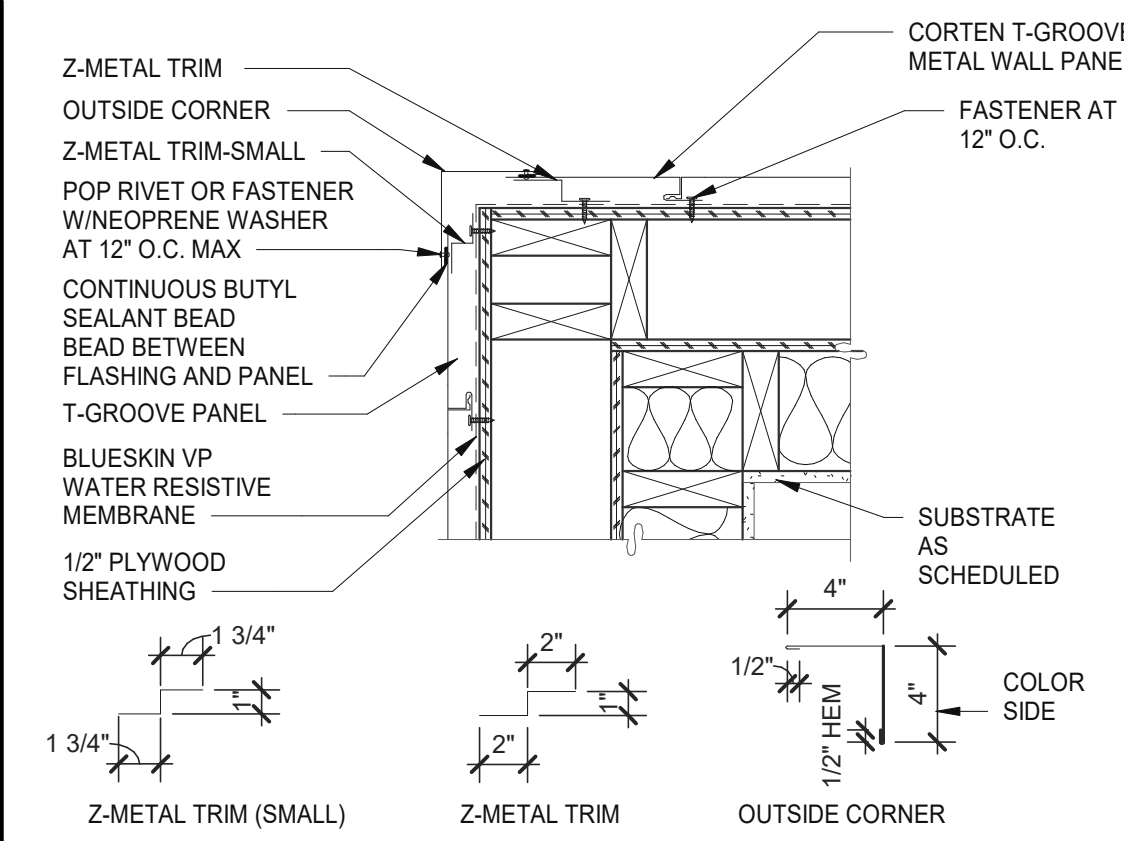
TACO BELL
 18708 TELEGRAPH ROAD
 BROWNSTOWN, MI 48183



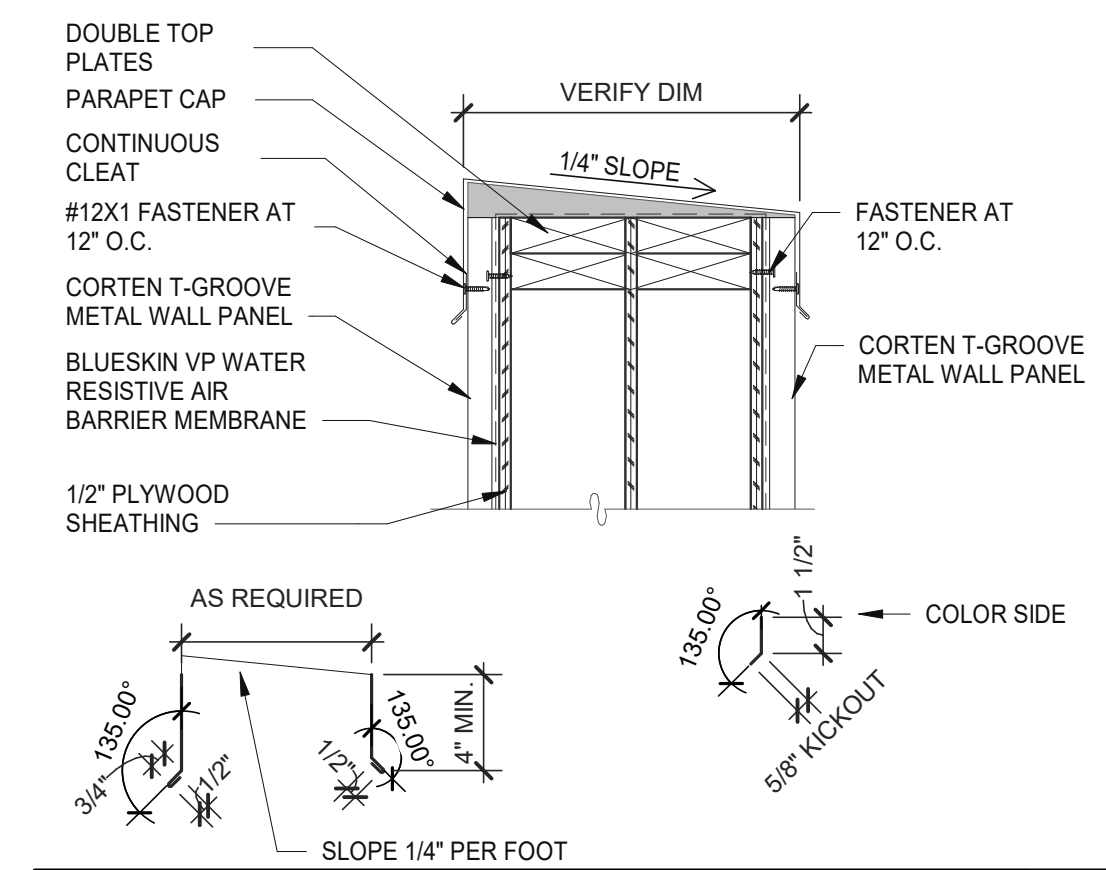
**ENDEAVOR 2.0
 CONSTRUCTION
 DETAILS
 DOOR/WINDOW**

A6.1

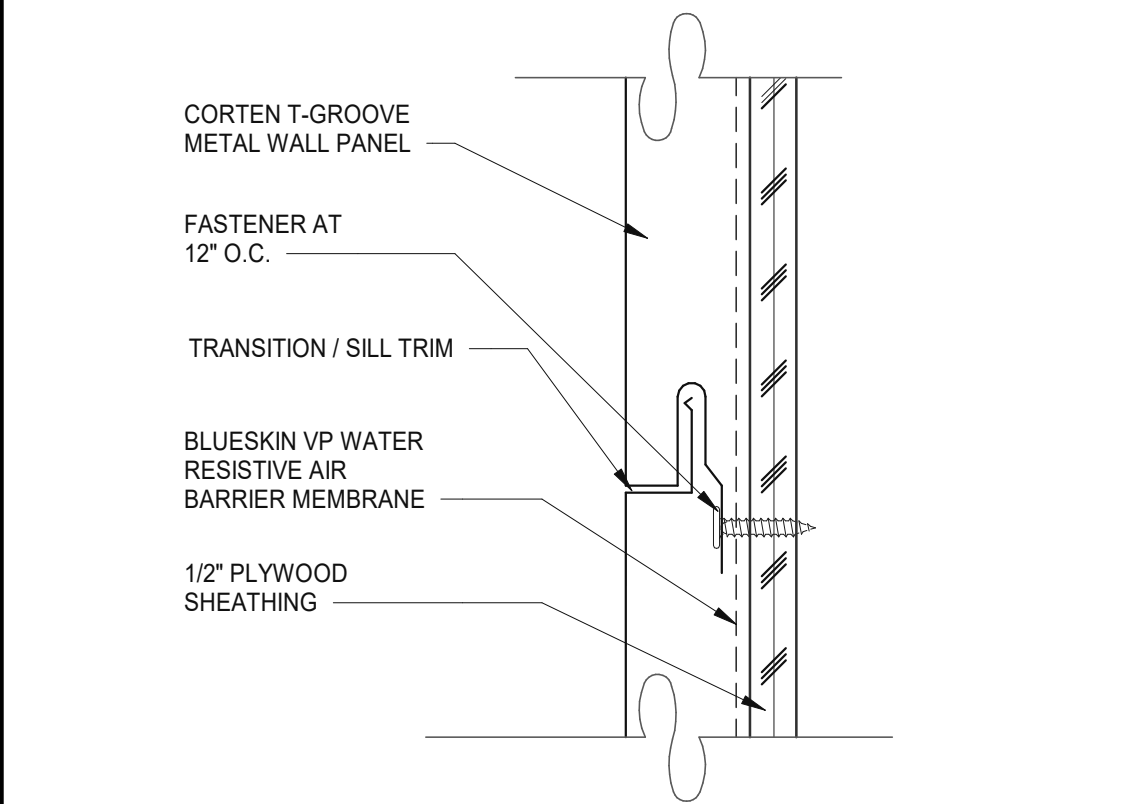
PLOT DATE: 3/9/2022 10:27:30 AM



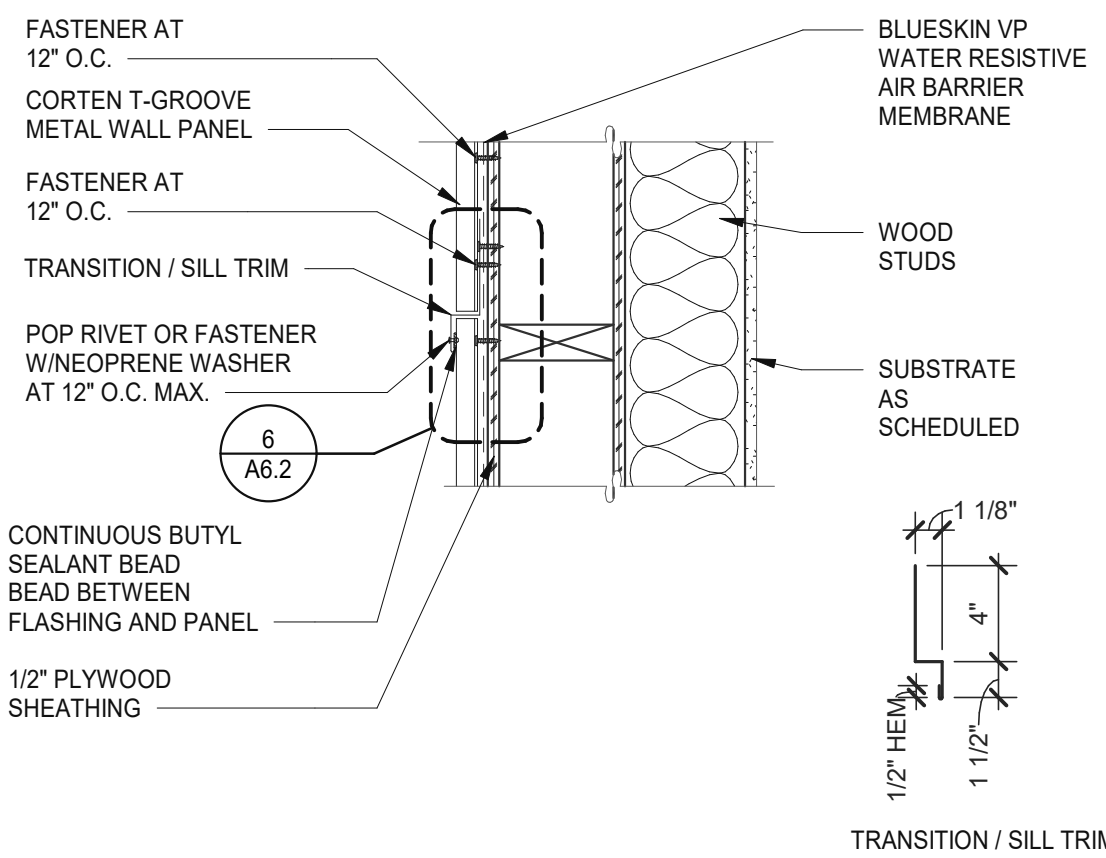
OUTSIDE CORNER 1/2" = 1'-0" **5**



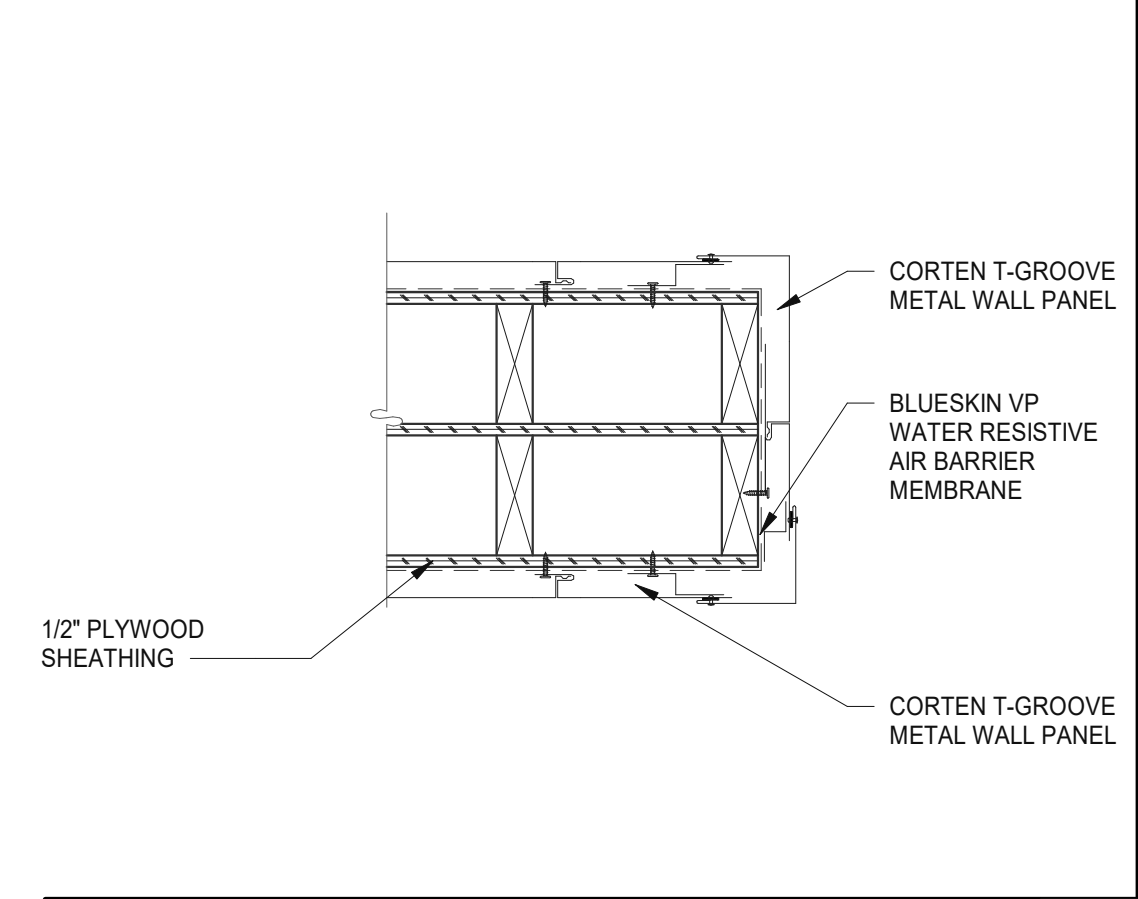
PARAPET 1/2" = 1'-0" **1**



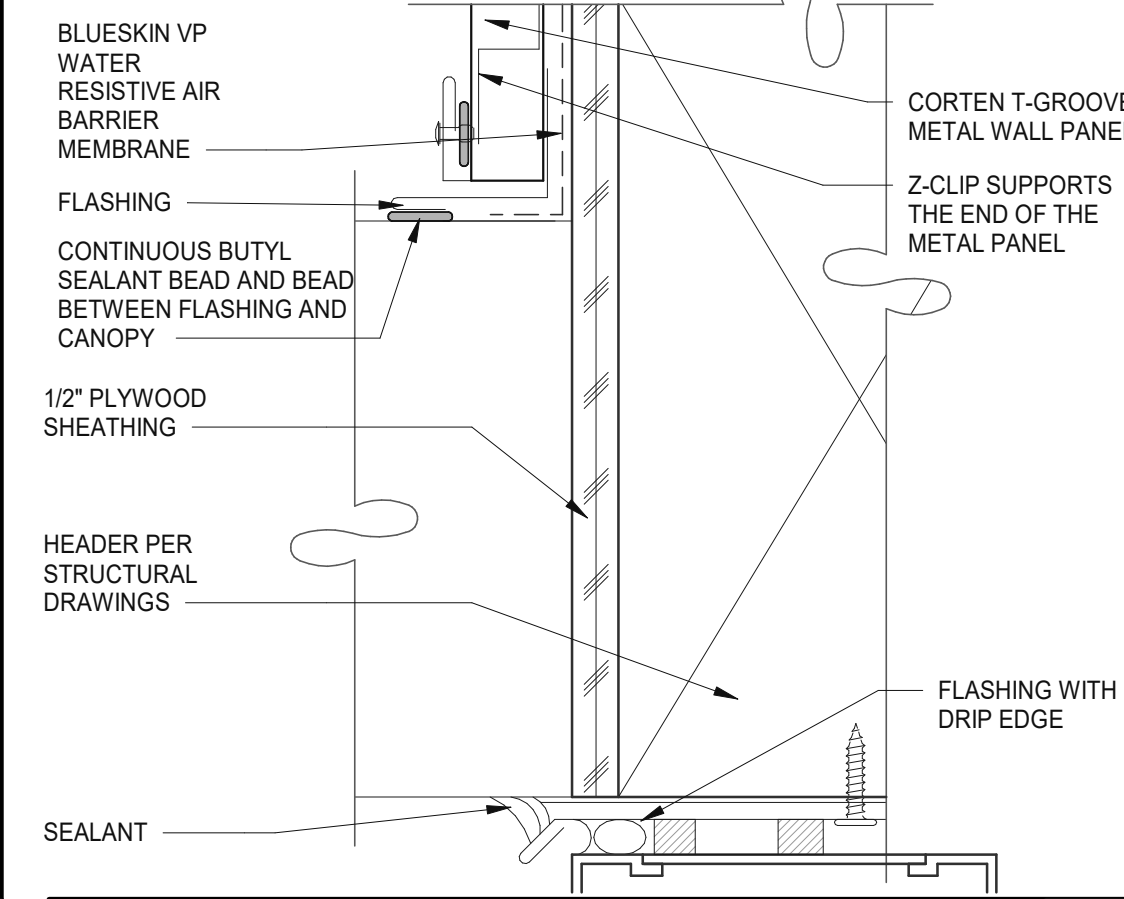
PANEL JOINT 6" = 1'-0" **6**



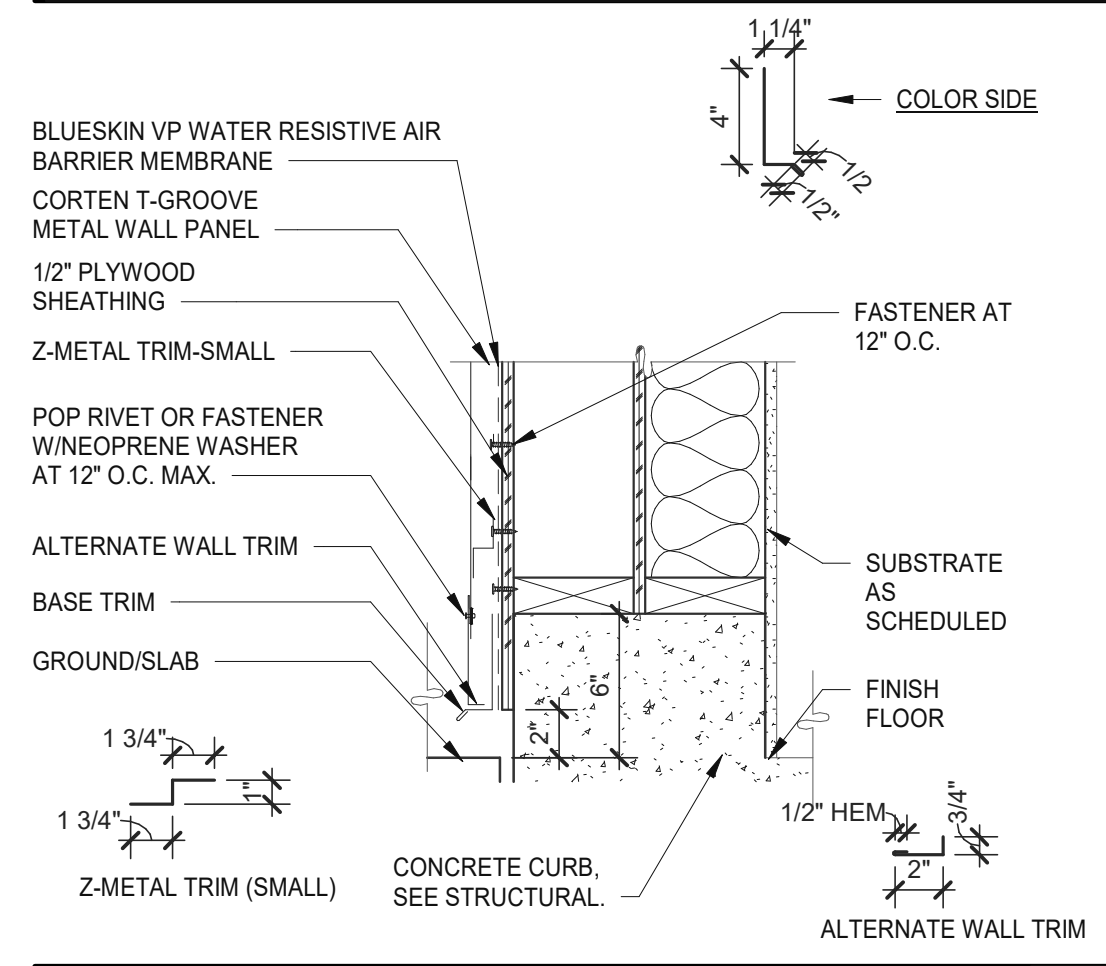
VERTICAL PANEL JOINT 1/2" = 1'-0" **2**



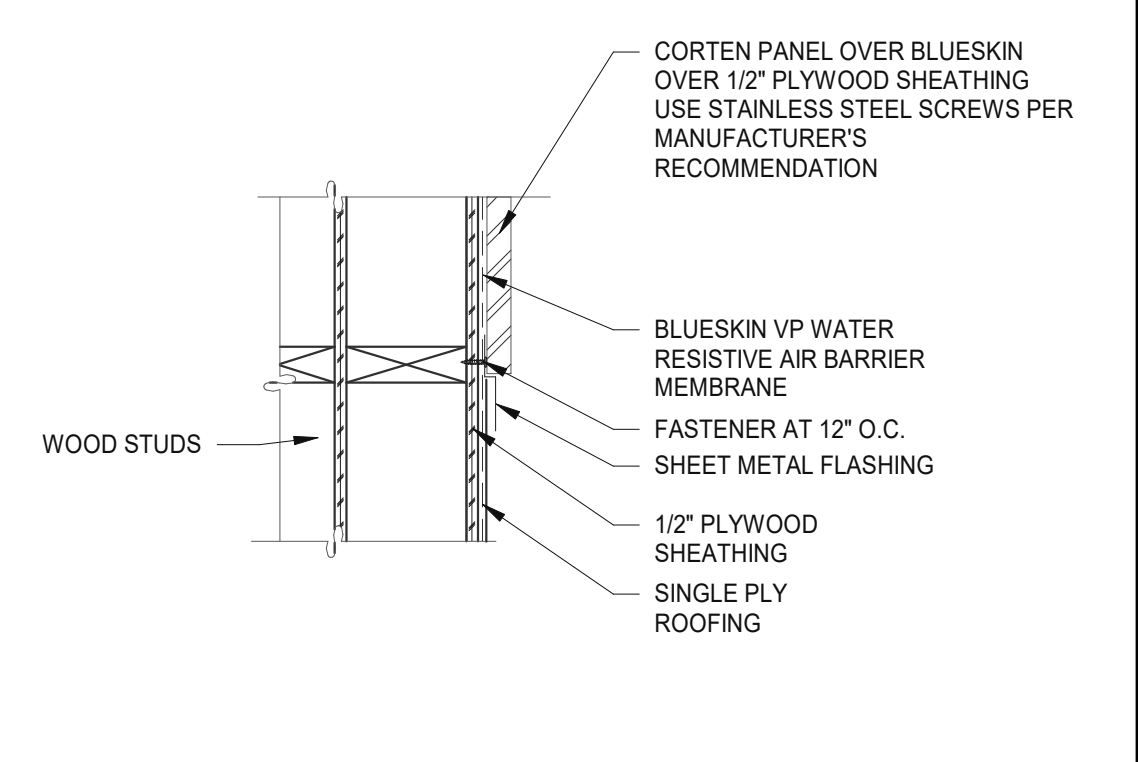
CORTEN T-GROOVE METAL PANEL 1/2" = 1'-0" **11**



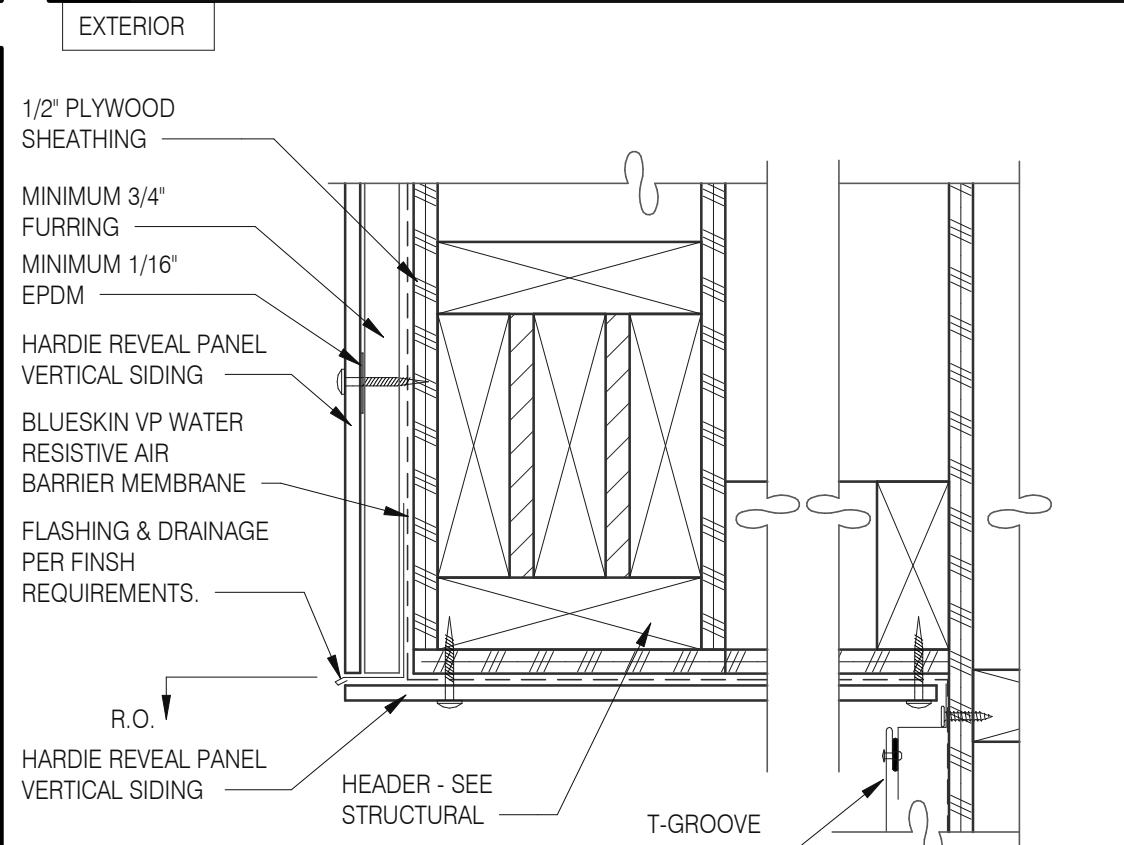
ENLARGED CANOPY DETAIL 6" = 1'-0" **7**



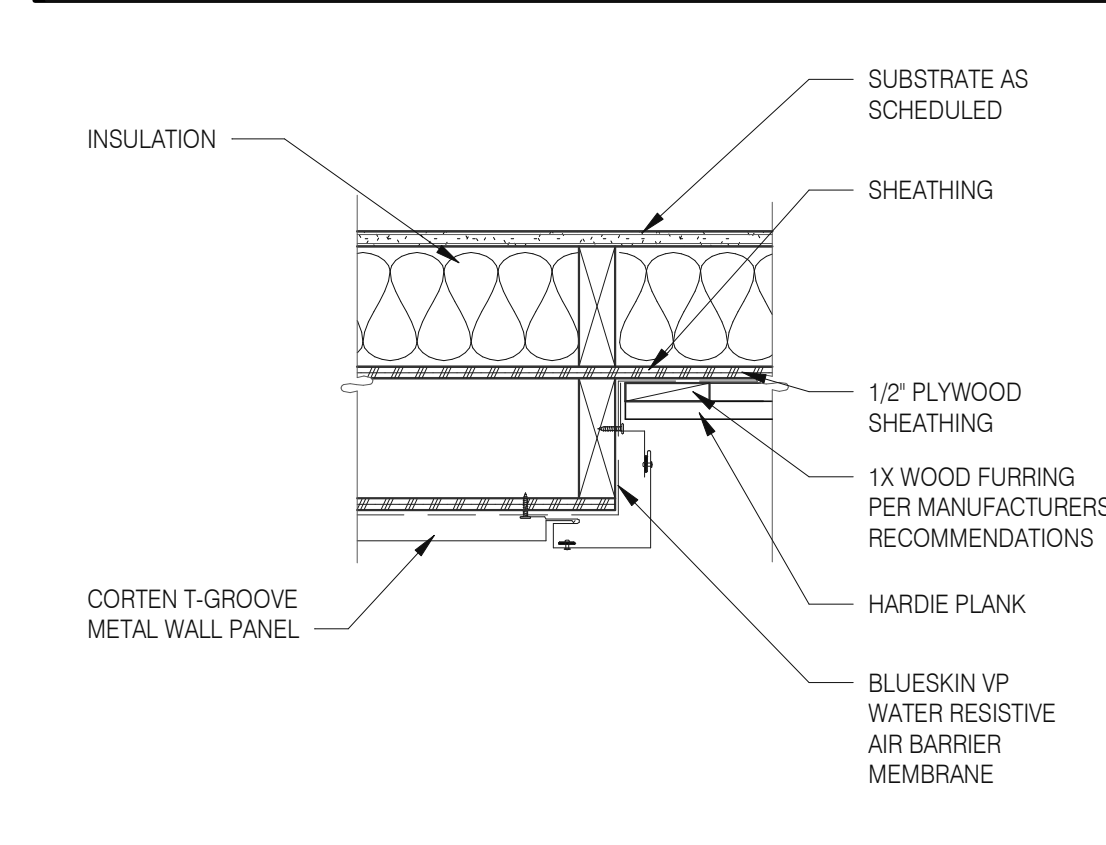
BASE TRIM HORIZONTAL 1/2" = 1'-0" **3**



METAL PANEL @ ROOFING 1/2" = 1'-0" **12**



PARAPET CORNER 3" = 1'-0" **8**



VERTICAL OUTSIDE CORNER 1/2" = 1'-0" **4**

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PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 315089
STORE NUMBER: 40164
PA/PM: SM
DRAWN BY.: RS
JOB NO.: 2019088.31

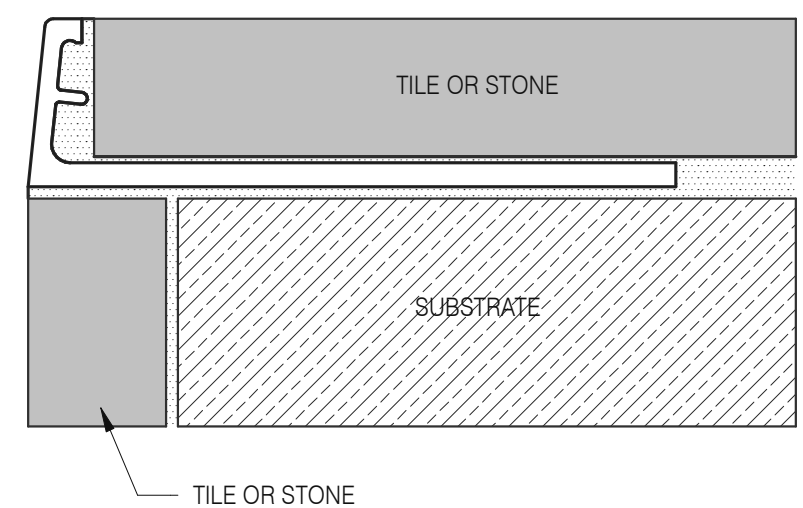
TACO BELL

18708 TELEGRAPH ROAD
BROWNSTOWN, MI 48183

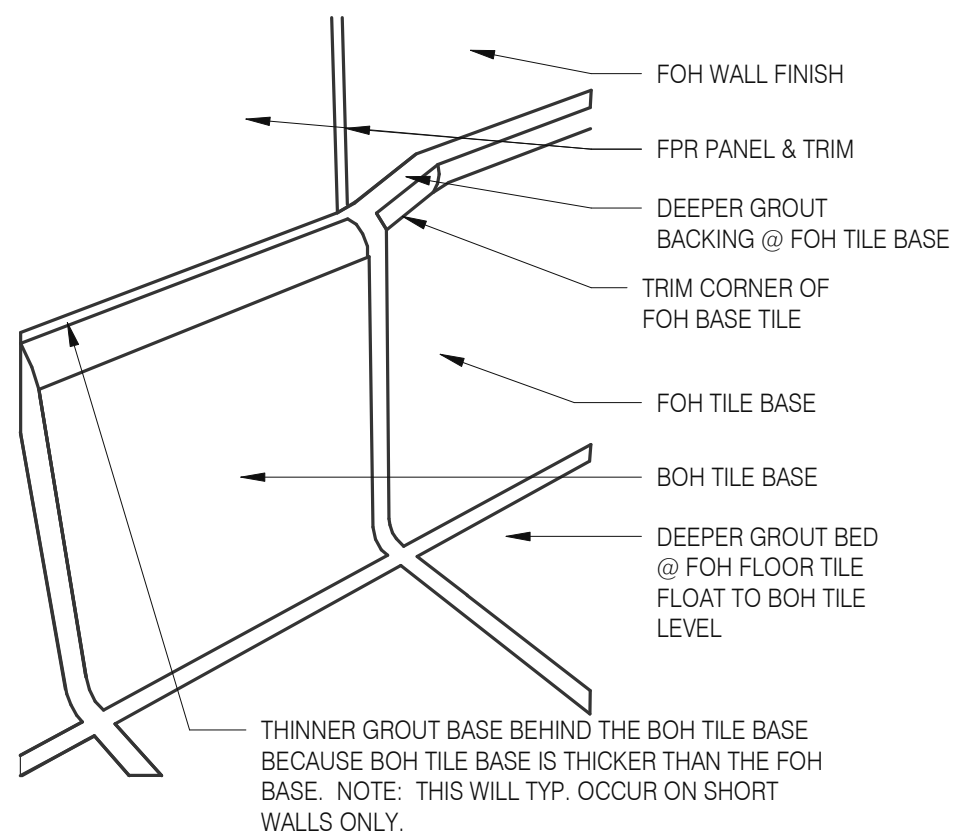


**ENDEAVOR 2.0
CONSTRUCTION
DETAILS WALL**

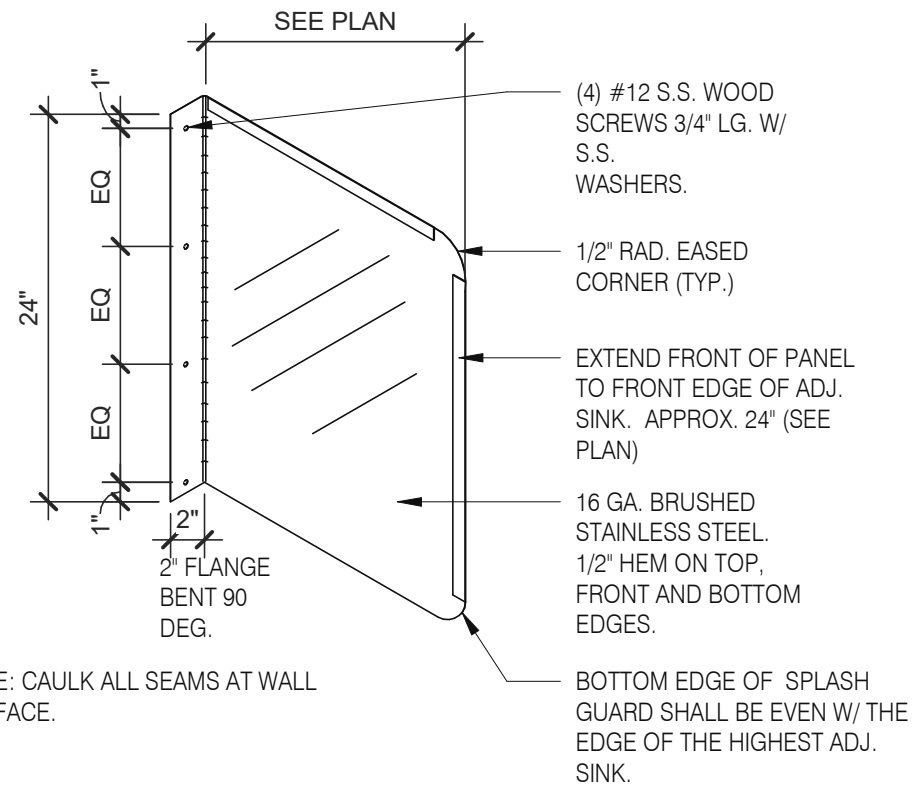
A6.2



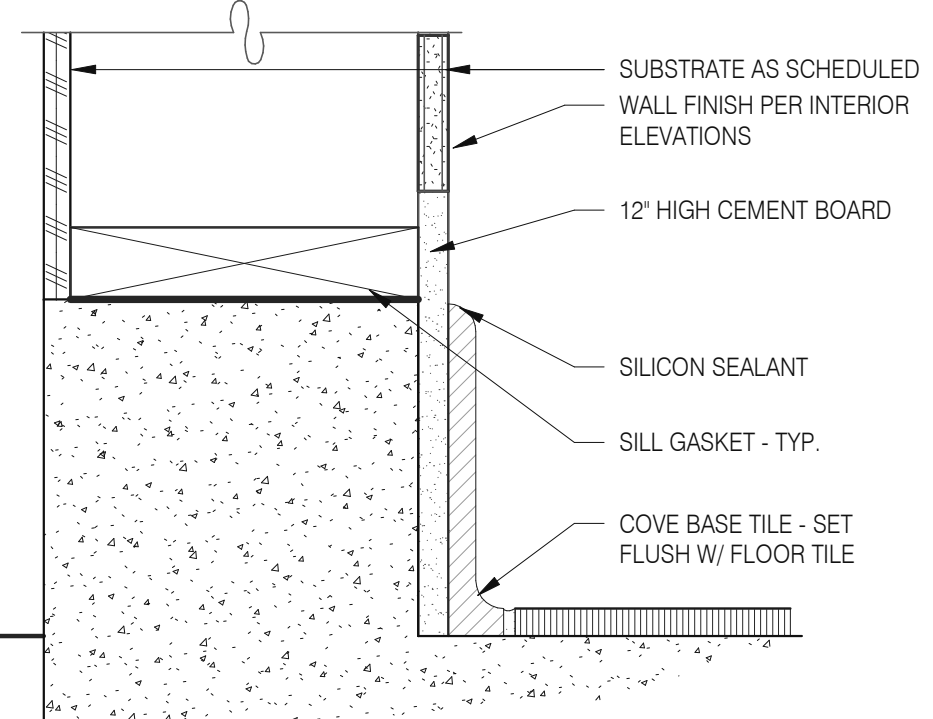
Schluter Jolly Corner Guard 1 1/2" = 1'-0" **17**



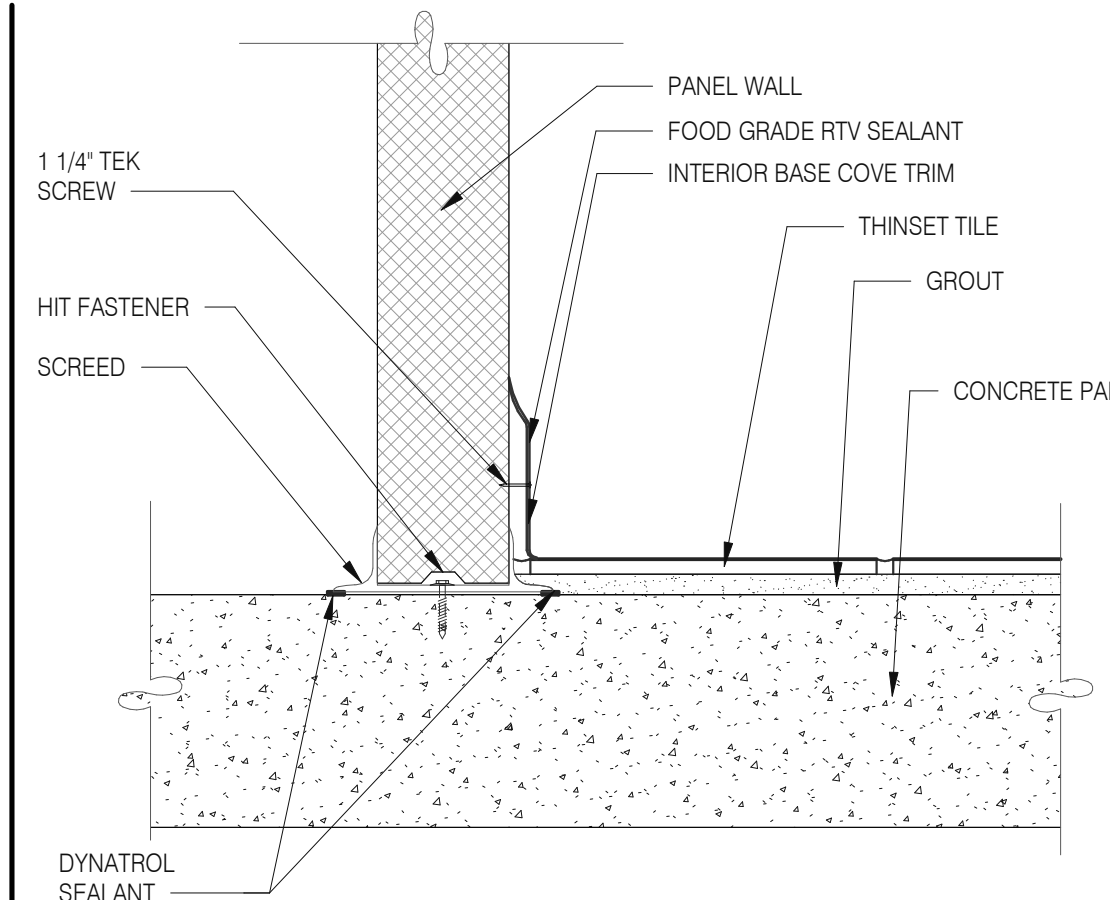
Tile Base Transition 12" = 1'-0" **13**



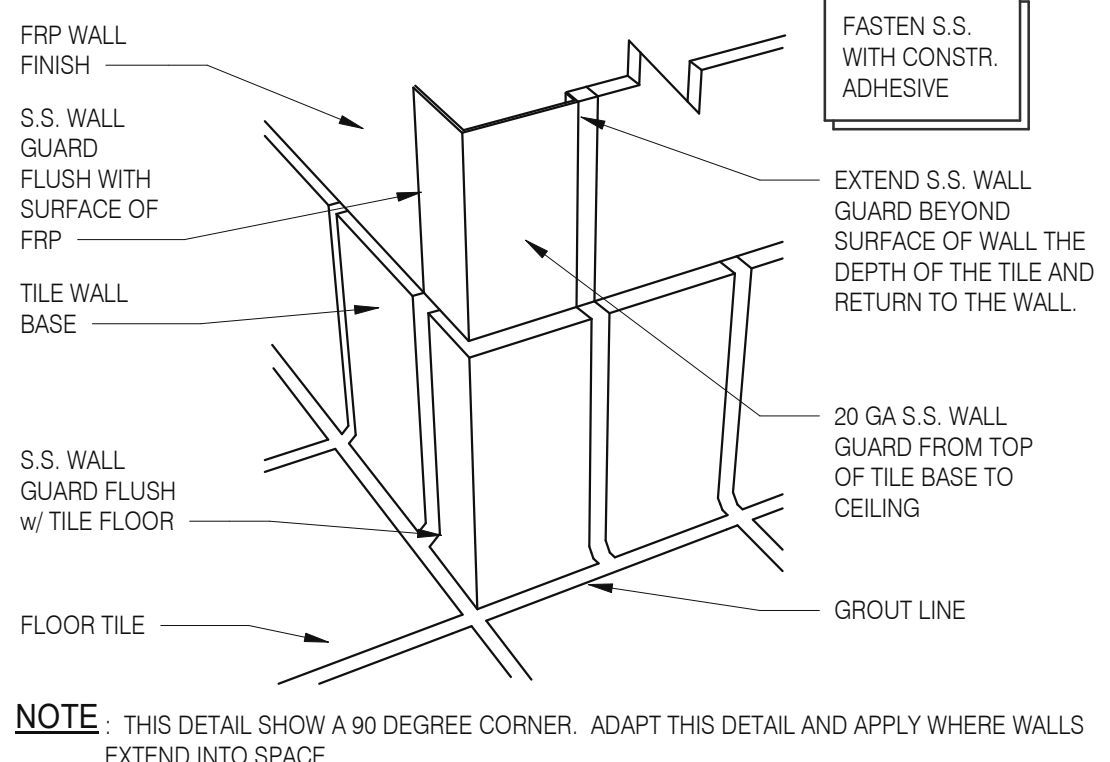
Splash Guard 1" = 1'-0" **9**



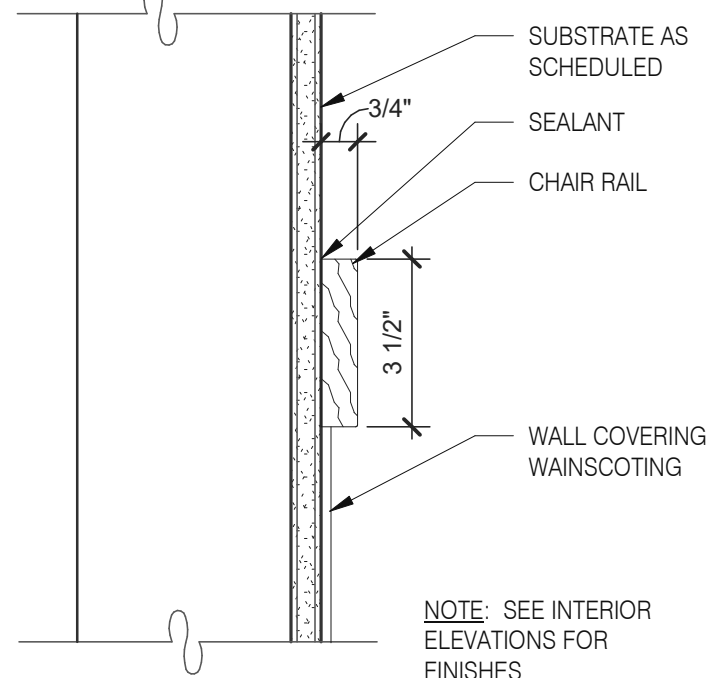
Base @ Dining Ext. Side Walls 3" = 1'-0" **5**



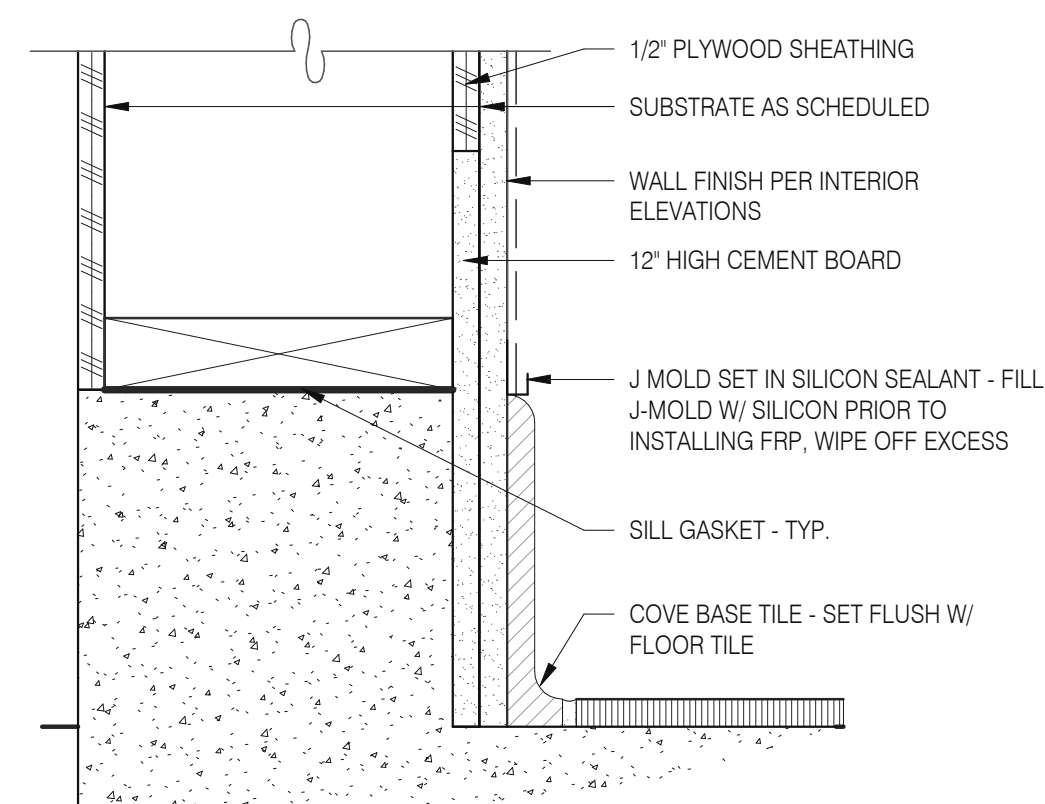
Walk-in Tile/Base 1 1 1/2" = 1'-0" **1**



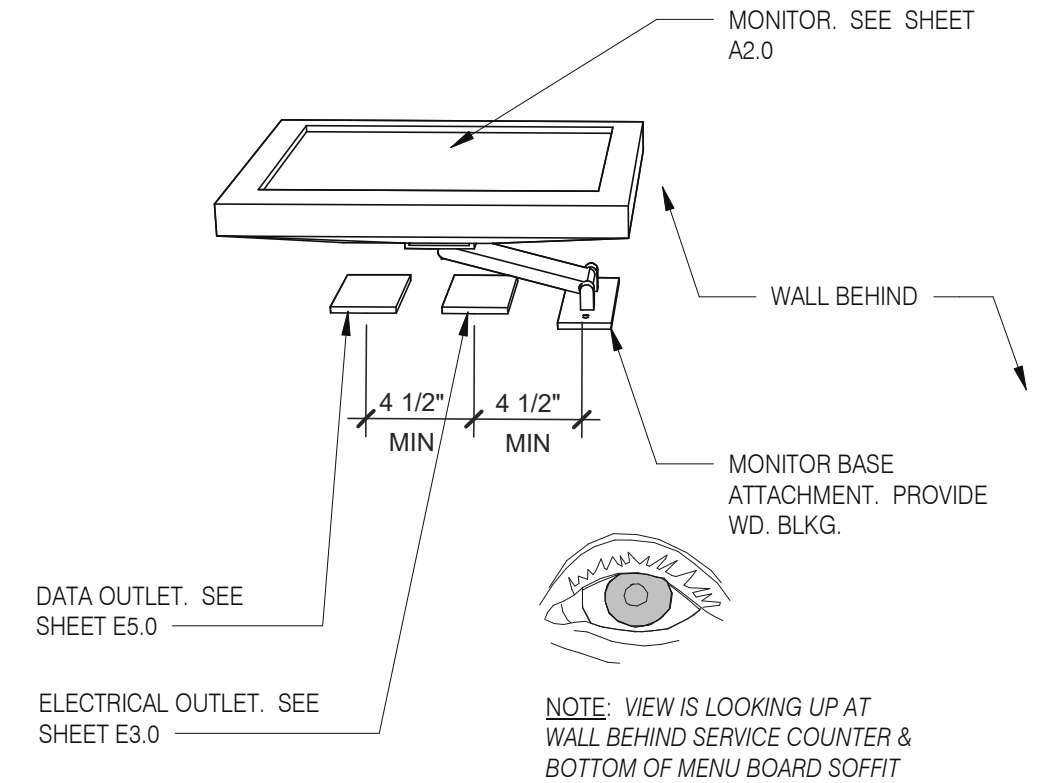
S.S. Corner & End Wall Guard 12" = 1'-0" **14**



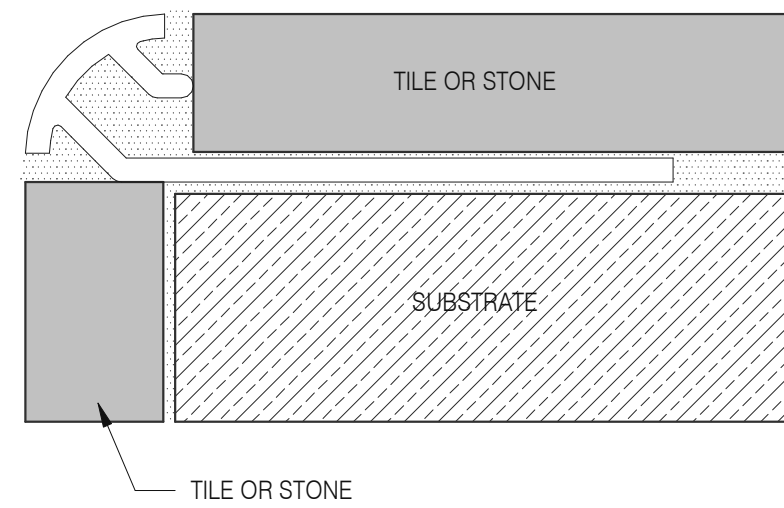
Chair Rail Detail 3" = 1'-0" **10**



Base @ Ext. Wall 3" = 1'-0" **6**



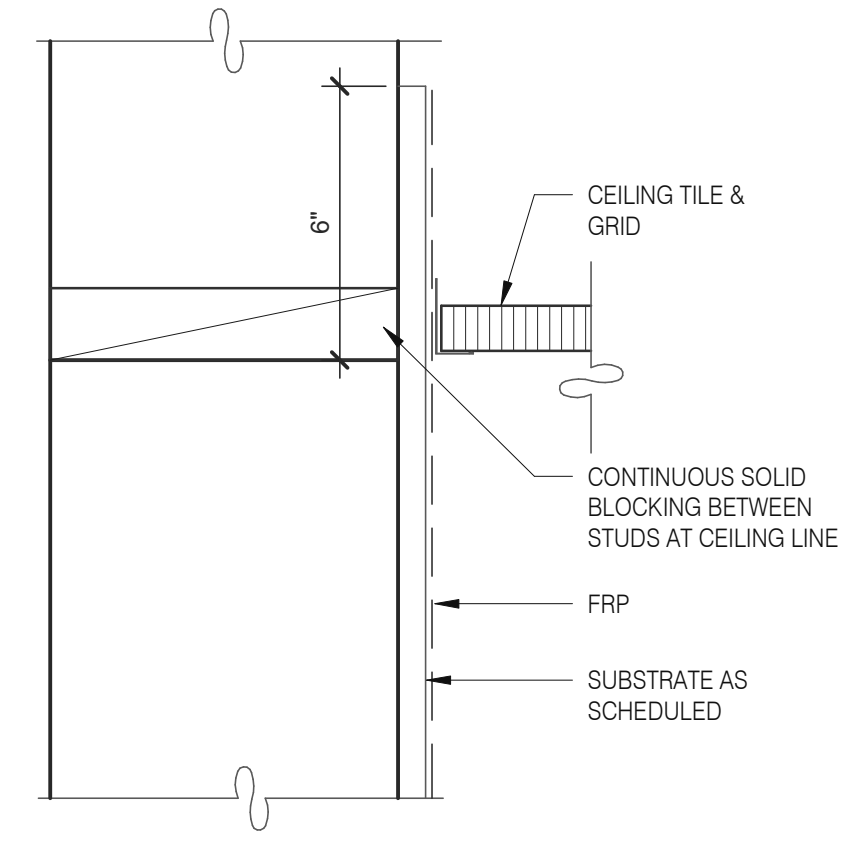
Wall Mount Monitor 1 1 1/2" = 1'-0" **2**



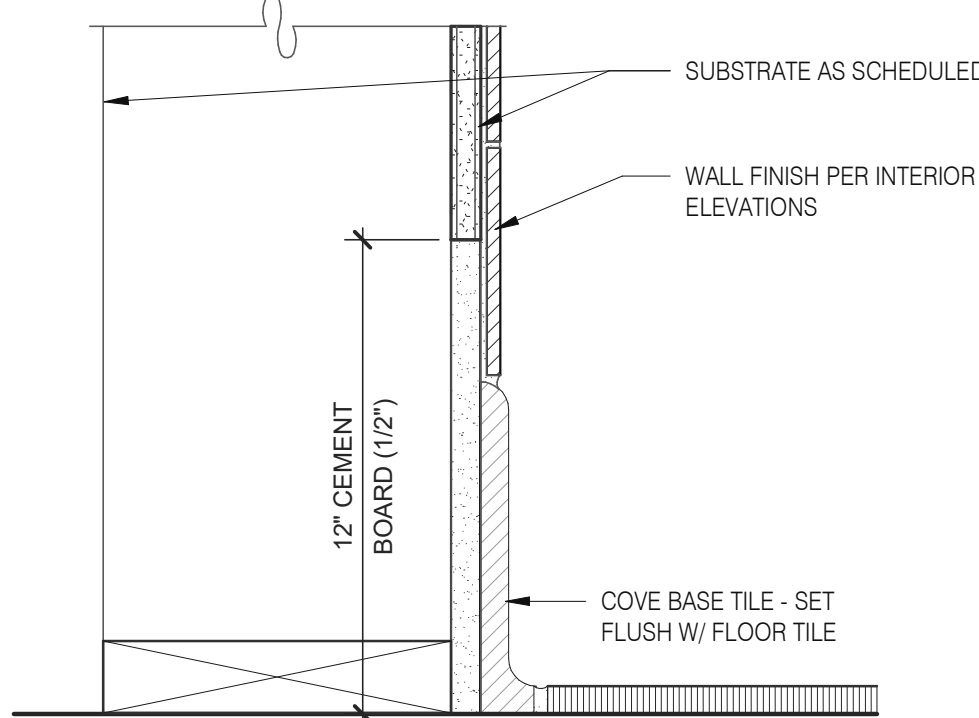
Schluter Corner Guard 1 1/2" = 1'-0" **15**



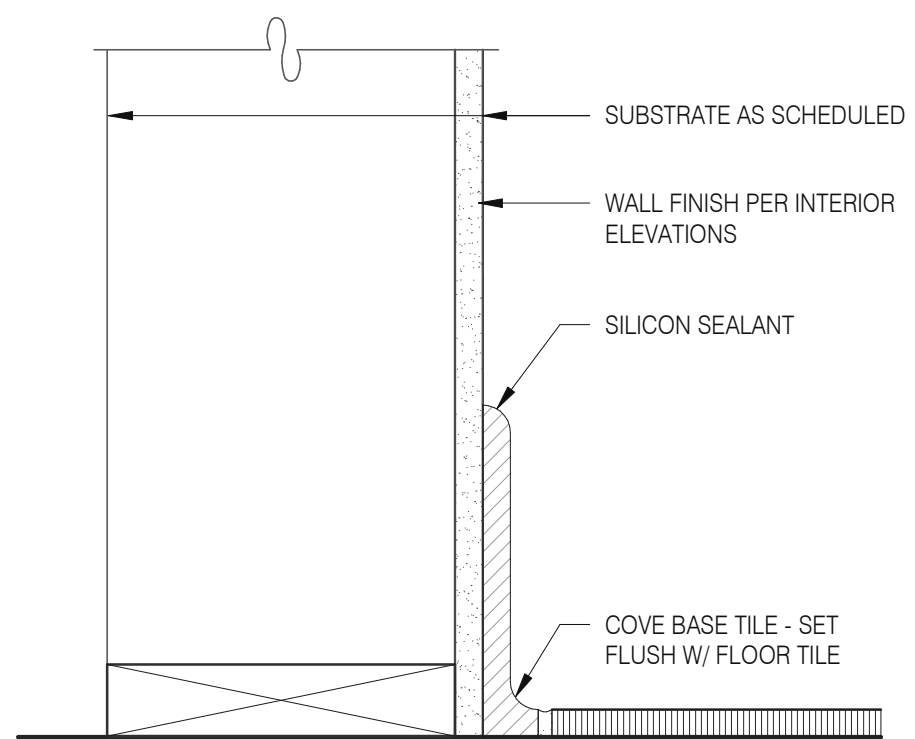
Base in Restroom 3" = 1'-0" **7**



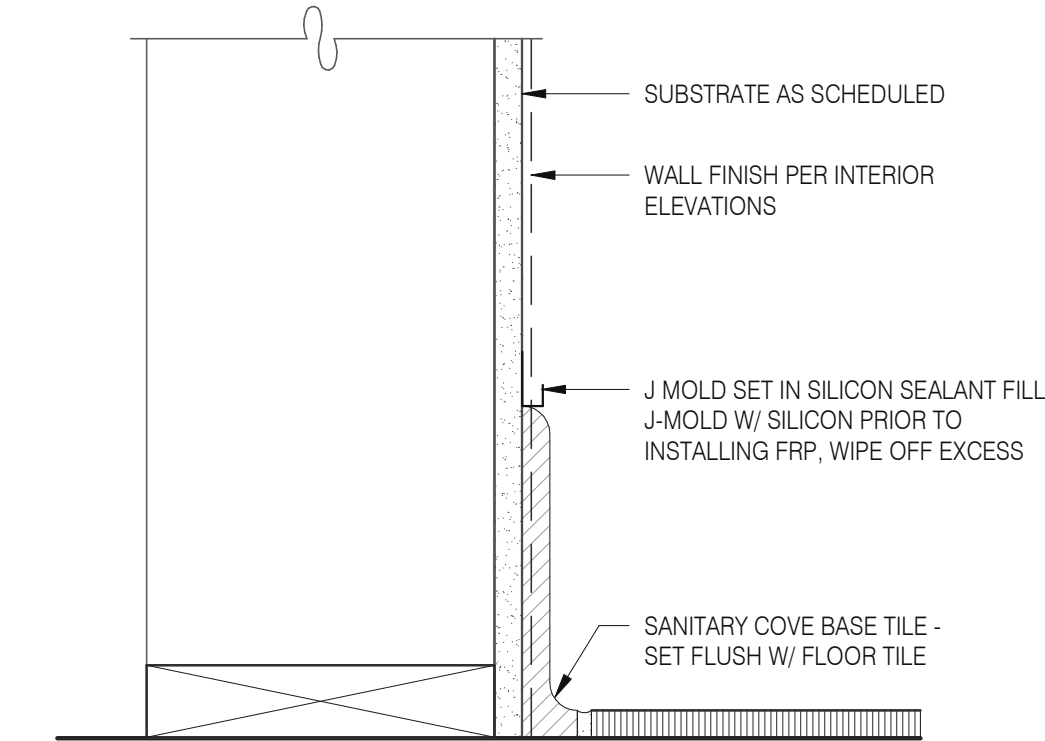
Kitchen Finish @ Ceiling 3" = 1'-0" **3**



Base @ Kitchen Wall 3" = 1'-0" **16**



Base @ Dining Room Int. Wall 3" = 1'-0" **8**



Base @ Dining Room Int. Wall 3" = 1'-0" **4**

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BRAND DESIGNER: DICKSON
SITE NUMBER: 315089
STORE NUMBER: 40164
PA/PM: SM
DRAWN BY.: RS
JOB NO.: 2019088.31

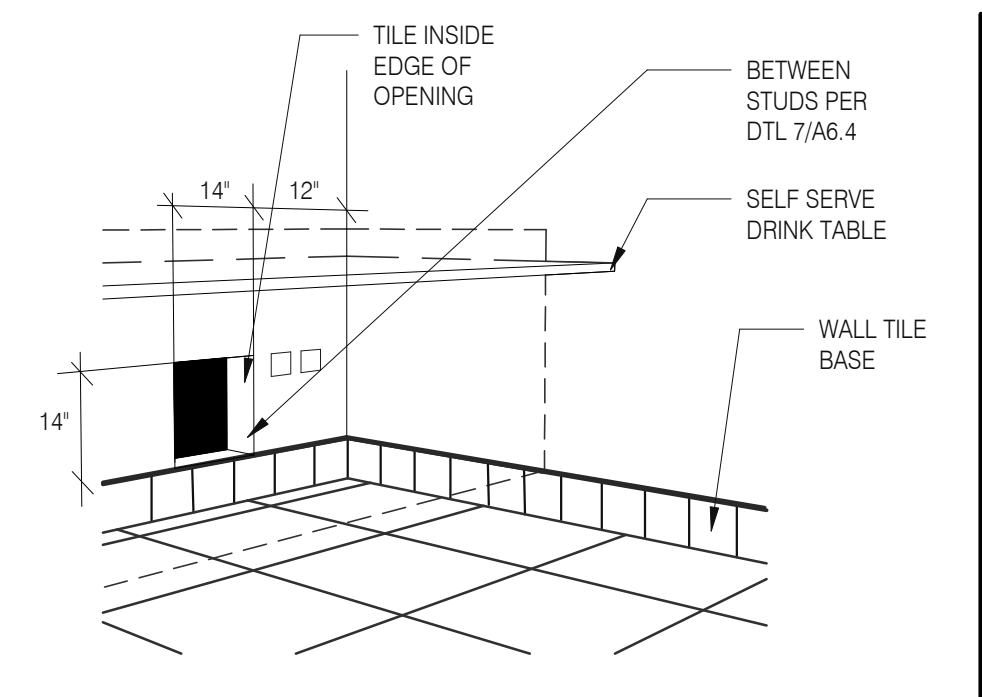
TACO BELL
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BROWNSTOWN, MI 48183



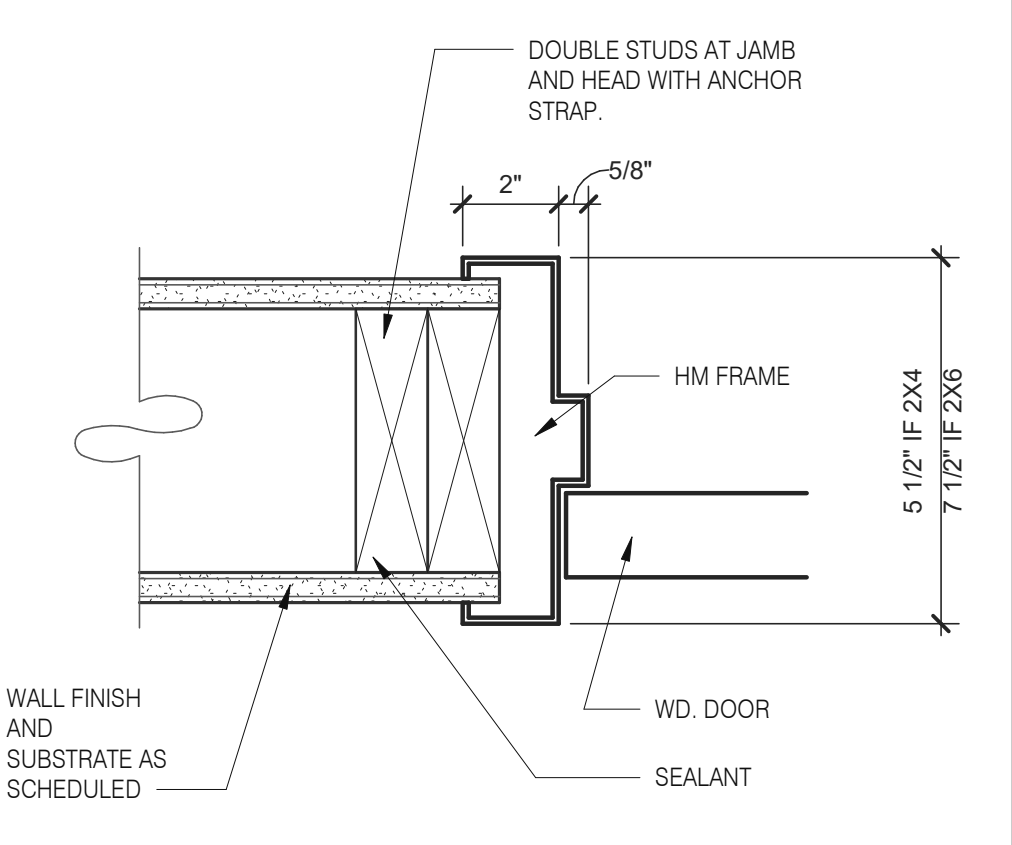
**ENDEAVOR 2.0
FINISH DETAILS**

A6.3

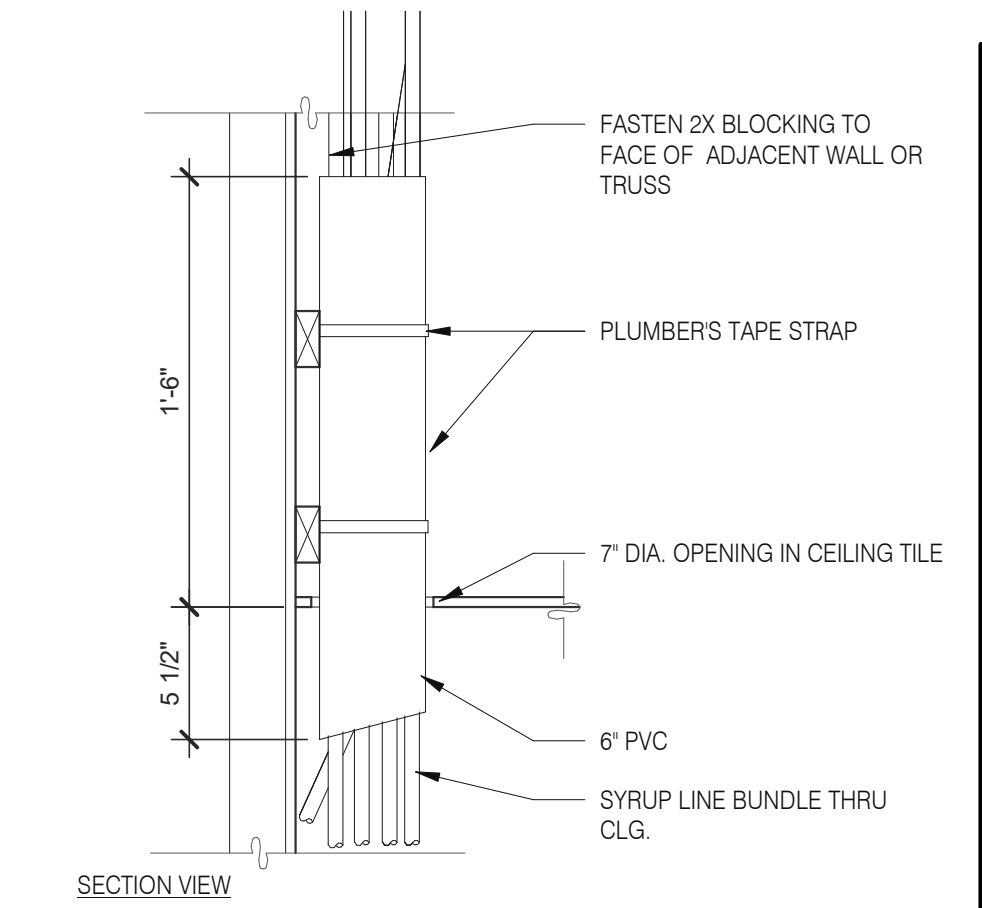
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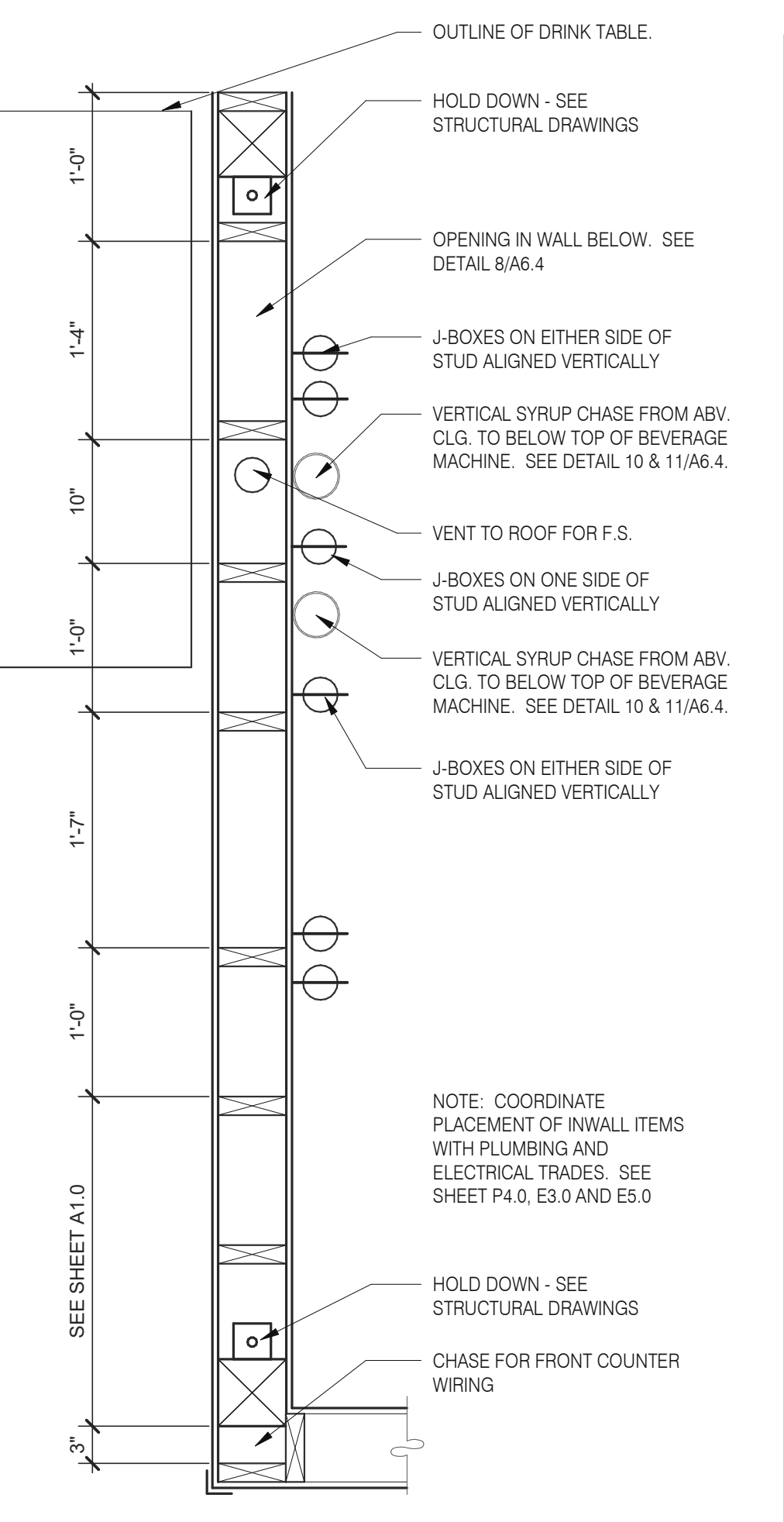
WALL PASS THRU N.T.S. **8**



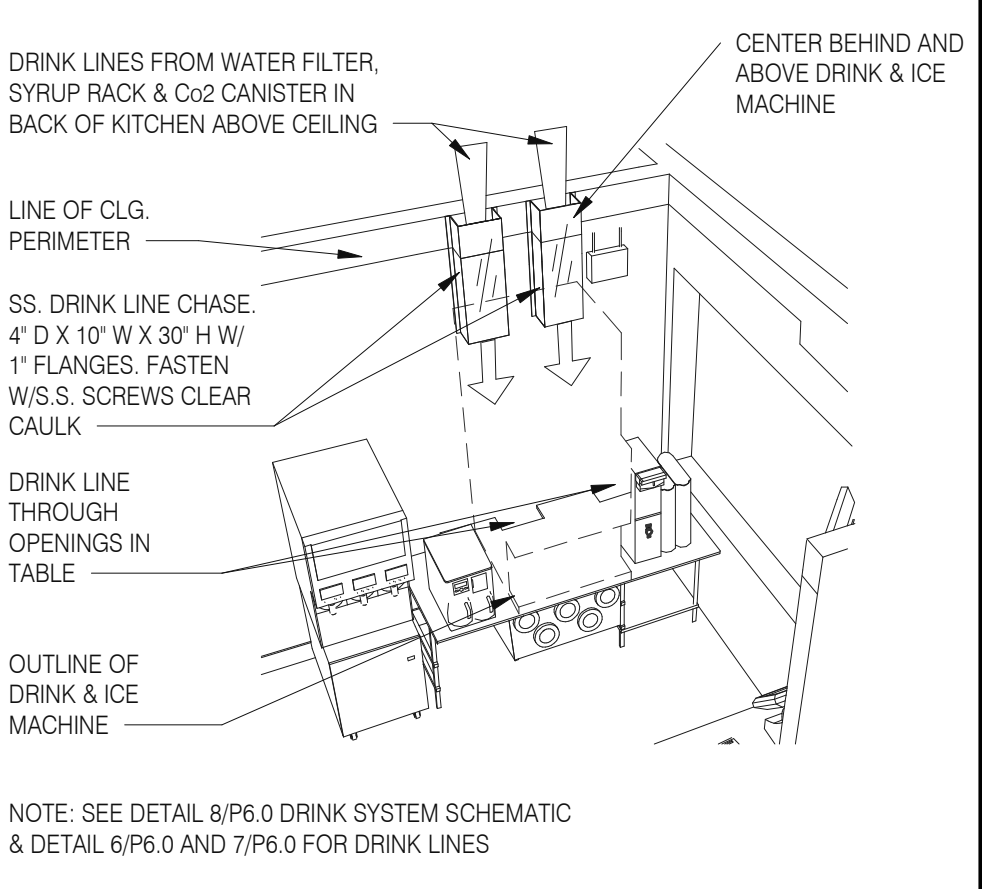
HEAD/JAMB @ H.M. DOOR N.T.S. **6**



SYRUP BUNDLE CLG. 1 1/2" = 1'-0" **10**



INTERIOR CHASE WALL N.T.S. **7**



SYRUP CHASE ON WALL 1 1/2" = 1'-0" **11**

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 STORE NUMBER: 40164
 PA/PM: SM
 DRAWN BY.: RS
 JOB NO.: 2019088.31

TACO BELL
 18708 TELEGRAPH ROAD
 BROWNSTOWN, MI 48183

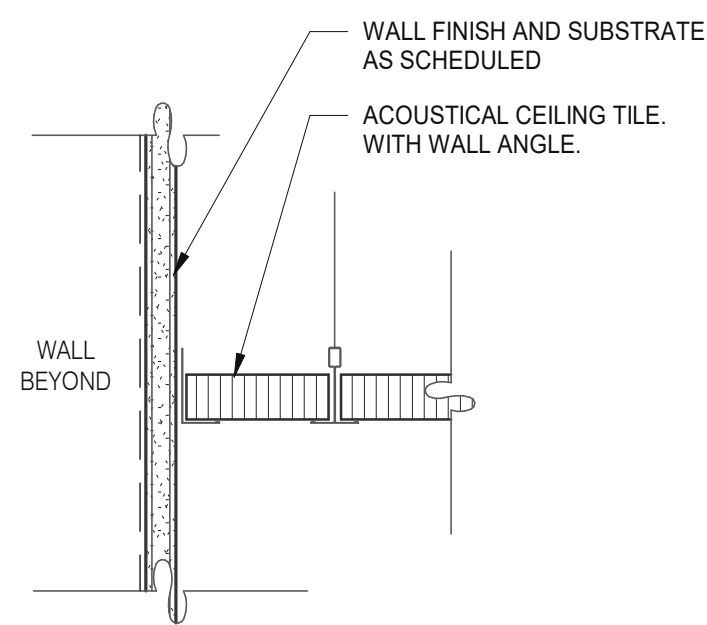


ENDEAVOR 2.0
**CONSTRUCTION
 DETAILS
 INTERIOR**

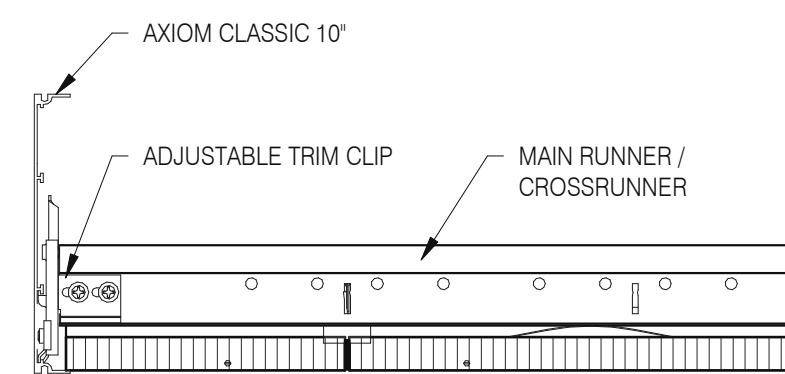
A6.4

PLOT DATE: 3/9/2022 10:27:39 AM

C:\Users\mimh\Documents\0275_ARCH\31020_BrownsTown_MI_Rest1.rvt

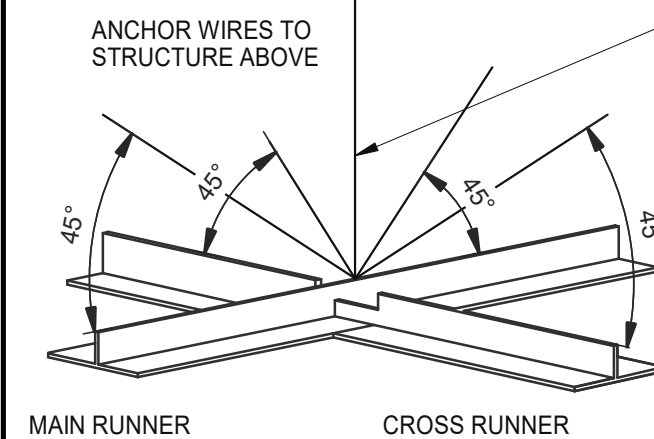


GYPSUM BOARD TRANSITION 3" = 1'-0" 17



ASSEMBLY CLIP-ON 3" = 1'-0" 13

LATERAL BRACING: 4-12 GA. WIRES SECURED TO MAIN RUNNER WITHIN 2" OF CROSS RUNNER INTERSECTION AND SPLAYED 90° FROM EACH OTHER AT ANGLE NOT TO EXCEED 45° FROM THE PLANE OF THE CEILING TYP. @ 12'-0" EA. WAY BEGINNING 6'-0" MAX. FROM WALL.

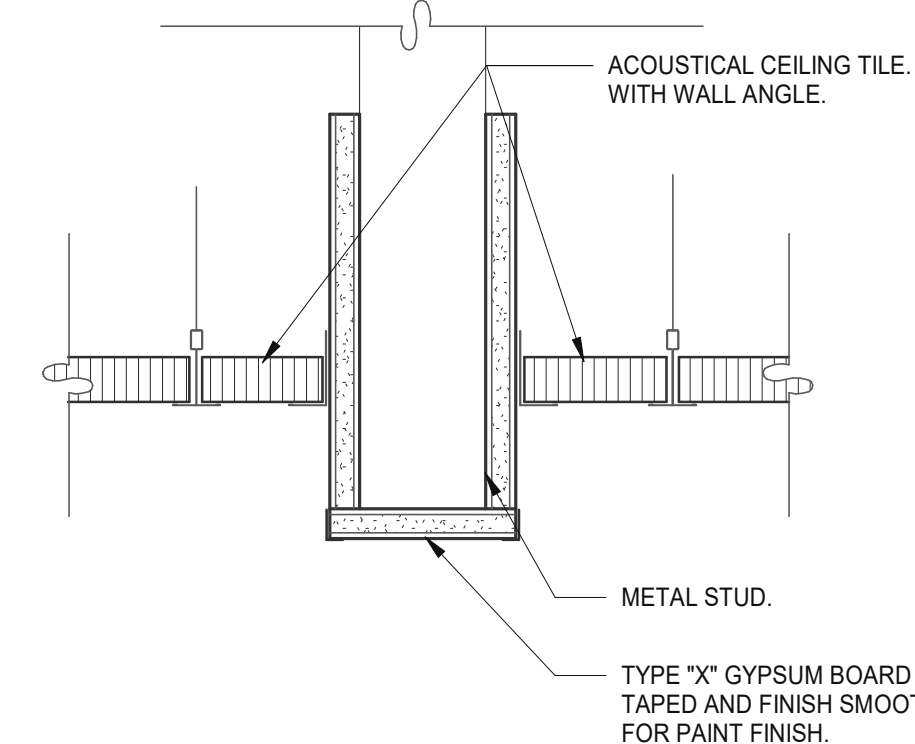


SUSPENDED ACOUSTICAL CEILING 3" = 1'-0" 9

AT SUSPENDED CEILING: VERTICAL HANGER WIRE AT 4'-0" O.C. W/ (2) 1 1/2" X 9" GA. STAPLES @ LOOP & (1) ACROSS LAP. 3 FULL TURNS MINIMUM WITHIN 3" LENGTH

AT OPEN GRID: VERTICAL SUSPENSION WITH THREADED ROD PER OTHER DETAILS.

NOTE:
 ○ ALL WIRES 12 GA.
 ○ PROVIDE 6" CLEARANCE AT ALL PIPES & DUCTS, ETC.
 ○ BRACING WIRES MUST BE ATTACHED TO THE GRID AND TO THE STRUCTURE IN SUCH A MANNER THAT THEY CAN SUPPORT A DESIGN LOAD OF NOT LESS THAN 200 POUNDS OR THE ACTUAL LOADS, WHICHEVER IS GREATER, WITH A SAFETY FACTOR OF 2.



CEILING HEADER TRANSITION 3" = 1'-0" 5

MEMBER DEPTH:
 (EXAMPLE: 6" = 600 X 1/100 INCHES)
 ALL MEMBER DEPTHS ARE TAKEN IN 1/100 INCHES. FOR ALL "T" SECTIONS MEMBER DEPTH IS THE INSIDE DIMENSION.

FLANGE WIDTH:
 (EXAMPLE: 1 5/8" = 1.625" - 162 X 1/100 INCHES) ALL FLANGE WIDTHS ARE TAKEN IN 1/100 INCHES.

MATERIAL THICKNESS:
 (EXAMPLE: 0.064 IN. = 54 MILS: 1 MIL = 1/1000 IN.) MATERIAL THICKNESS IS THE MINIMUM BASE METAL THICKNESS IN MILS. MINIMUM BASE METAL THICKNESS REPRESENTS 95% OF THE DESIGN THICKNESS.

STYLE:
 (EXAMPLE: STUD OR JOIST SECTION = S)
 THE FOUR ALPHA CHARACTERS UTILIZED BY THE DESIGNATOR SYSTEM ARE:
 S = STUD OR JOIST, T = TRACK, U = CHANNEL, F = FURRING

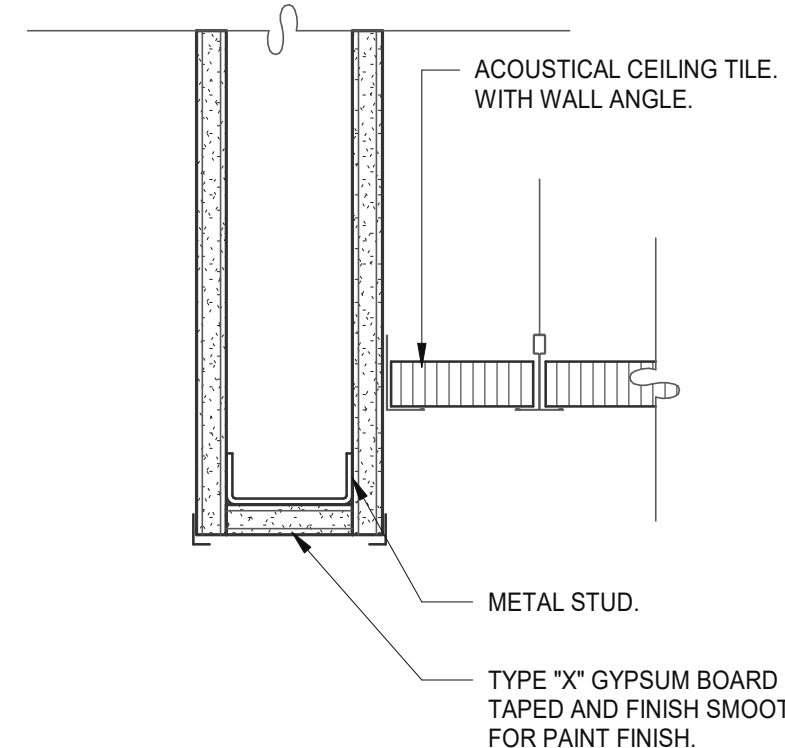
CEILING SPAN TABLE NOTES:
 1. VALUES ARE FOR SINGLE SPANS.
 2. ALLOWABLE CEILING SPAN CALCULATIONS BASED ON 33KSI YIELD STRENGTH STEEL.
 3. FOR FULLY BRACED CEILINGS, USE MID-SPAN BRACED VALUES.
 4. END BEARING LENGTH = 1" MINIMUM.

SECTION:	(MIL)	4 PSF LATERAL SUPPORT OF COMPRESSION FLANGE UNSUPPORTED					
		JOIST SPACING (IN.) O.C.			MID-SPAN JOIST SPACING (IN.) O.C.		
		12"	16"	24"	12"	16"	24"
362S125	18	9'-3"	8'-7"	7'-7"	12'-8"	11'-7"	10'-0"
362S125	27	10'-8"	9'-10"	8'-10"	15'-0"	13'-11"	12'-4"
362S125	30	11'-0"	10'-2"	9'-1"	15'-6"	14'-4"	12'-10"
362S125	33	11'-5"	10'-7"	9'-5"	16'-2"	14'-10"	13'-3"
362S125	43	12'-8"	11'-8"	10'-5"	17'-9"	16'-5"	14'-8"
362S137	27	12'-0"	11'-2"	10'-0"	17'-2"	15'-11"	14'-3"
362S137	33	12'-11"	11'-11"	10'-8"	18'-4"	16'-11"	15'-2"
362S137	43	14'-3"	13'-2"	11'-8"	20'-0"	18'-6"	16'-7"
362S162	33	14'-8"	13'-7"	12'-2"	20'-10"	18'-11"	16'-6"
362S162	43	16'-2"	14'-11"	13'-4"	22'-8"	20'-7"	18'-0"
400S125	27	10'-11"	10'-1"	9'-1"	15'-5"	14'-3"	12'-9"
400S125	30	11'-4"	10'-5"	9'-4"	16'-0"	14'-9"	13'-2"
400S125	33	11'-9"	10'-10"	9'-8"	16'-7"	15'-3"	13'-8"
400S125	43	13'-0"	12'-0"	10'-8"	18'-3"	16'-10"	15'-0"
400S137	27	12'-4"	11'-5"	10'-3"	17'-7"	16'-4"	14'-8"
400S137	33	13'-3"	12'-3"	10'-11"	18'-9"	17'-4"	15'-7"
400S137	43	14'-7"	13'-6"	12'-0"	20'-7"	19'-0"	17'-0"
400S162	33	15'-0"	13'-11"	12'-6"	21'-5"	19'-10"	17'-9"
400S162	43	16'-7"	15'-3"	13'-8"	23'-4"	21'-7"	19'-4"
600S125	27	12'-5"	11'-6"	10'-4"	17'-11"	16'-6"	14'-9"
600S125	30	12'-9"	11'-10"	10'-8"	18'-5"	17'-1"	15'-3"
600S125	33	13'-2"	12'-3"	11'-0"	18'-11"	17'-7"	15'-10"
600S125	43	14'-6"	13'-4"	11'-11"	20'-6"	19'-0"	17'-0"
600S137	33	14'-11"	13'-9"	12'-5"	21'-5"	19'-10"	17'-10"
600S137	43	16'-3"	15'-0"	13'-5"	23'-1"	21'-5"	19'-3"
600S162	33	16'-11"	15'-8"	14'-1"	24'-5"	22'-8"	20'-5"
600S162	43	18'-5"	17'-0"	15'-3"	26'-4"	24'-4"	21'-11"

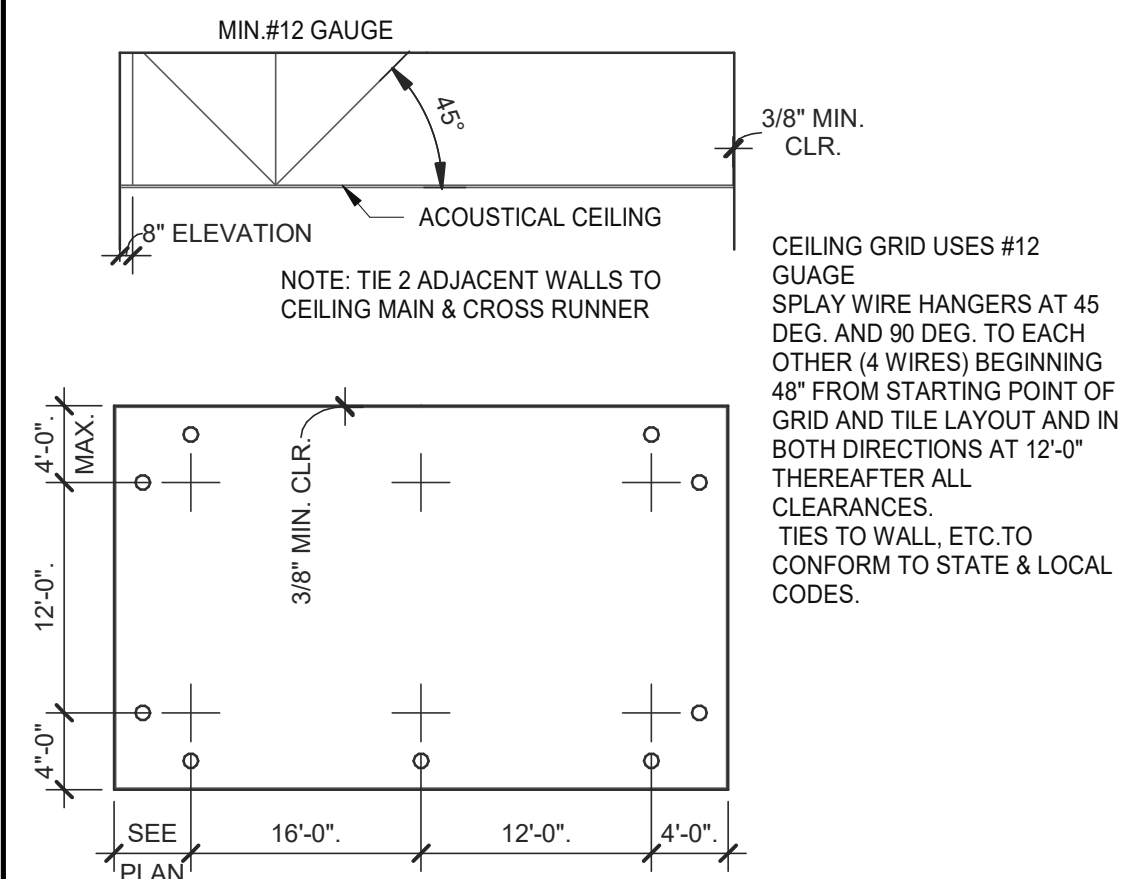
NOTE: ALL JOIST INFORMATION IS BASED ON STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) ICC ESR-3064P

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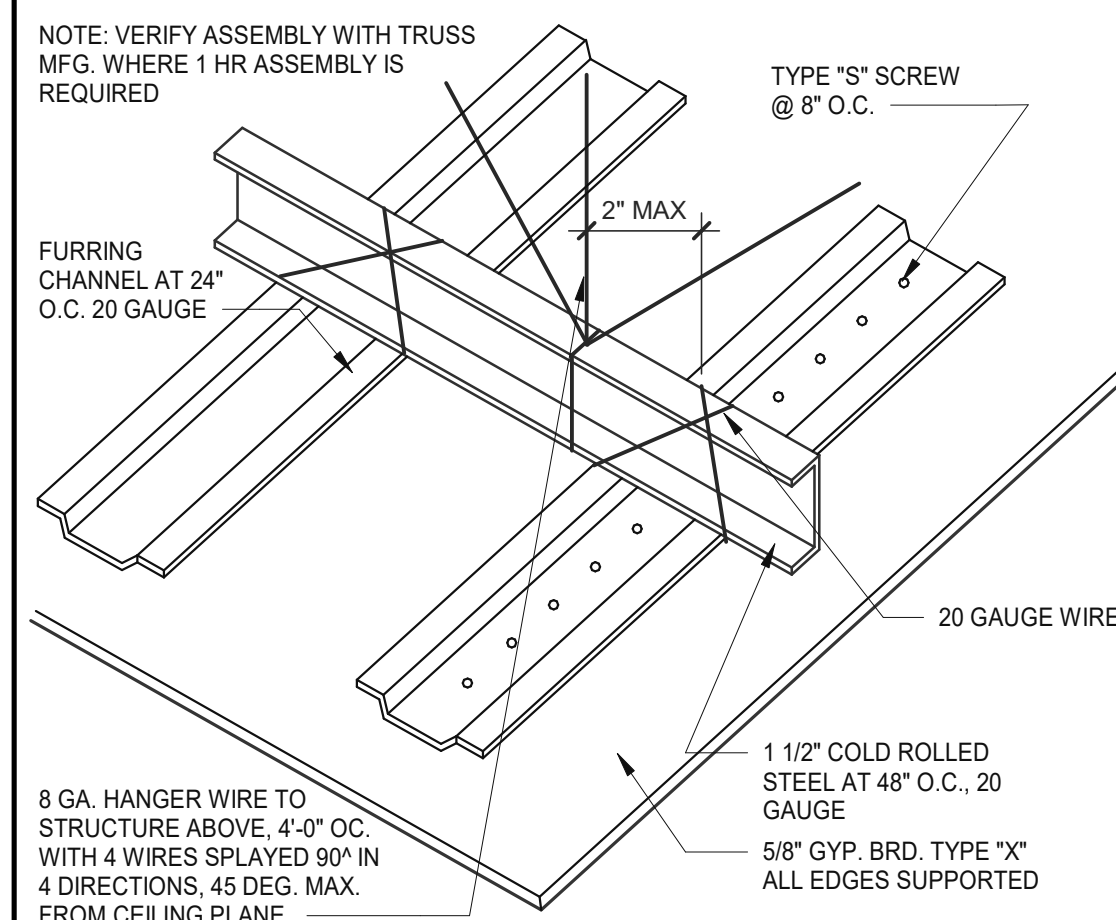
CONTRACT DATE: 06.22.21
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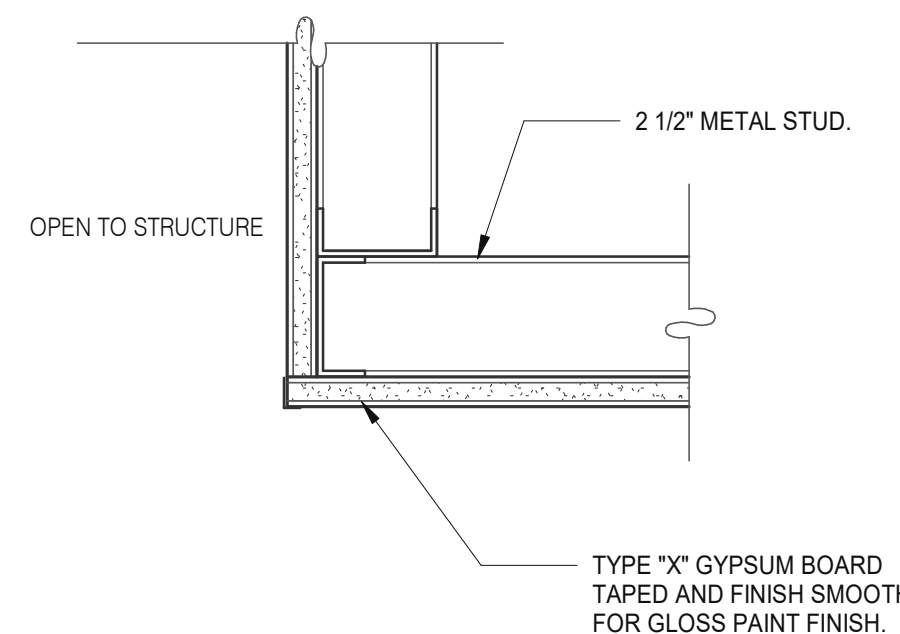
CEILING HEADER TRANSITION 3" = 1'-0" 14



SUSPENDED CEILING GRID 12" = 1'-0" 10



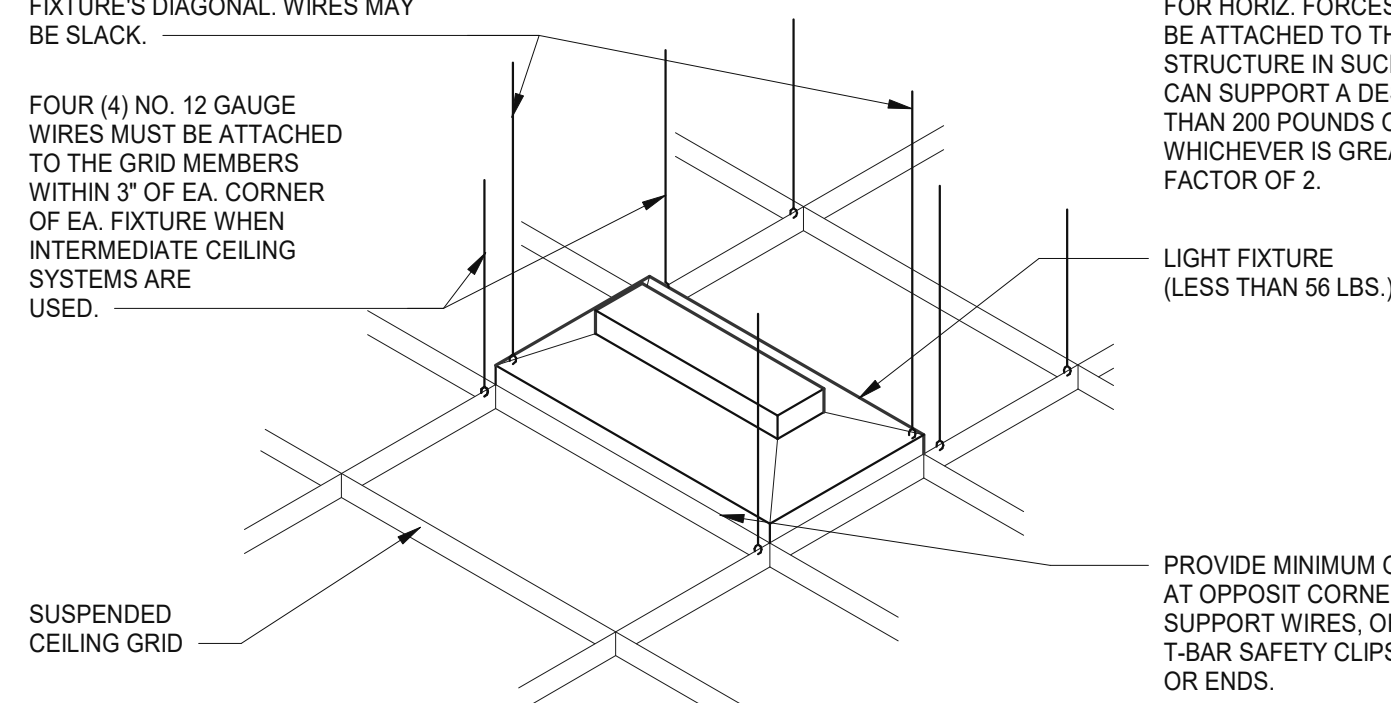
GYPSUM BOARD CEILING 3" = 1'-0" 6



CEILING TRANSITION 3" = 1'-0" 11

TWO (2) NO. 12 GAUGE WIRES MUST BE SECURED FROM LIGHT & MECHANICAL FIXTURES AT OPPOSING CORNERS ALONG THE FIXTURE'S DIAGONAL. WIRES MAY BE SLACK.

FOUR (4) NO. 12 GAUGE WIRES MUST BE ATTACHED TO THE GRID MEMBERS WITHIN 3" OF EA. CORNER OF EA. FIXTURE WHEN INTERMEDIATE CEILING SYSTEMS ARE USED.



LIGHT FIXTURE @ SUSP. CLNG. 12" = 1'-0" 8

LATERAL FORCE BRACING MEMBERS MUST BE SPACED A MINIMUM OF 6" FROM ALL HORIZONTAL PIPING OR DUCT WORK THAT IS NOT PROVIDED WITH BRACING RESTRAINTS FOR HORIZ. FORCES. BRACING WIRES MUST BE ATTACHED TO THE GRID AND TO THE STRUCTURE IN SUCH A MANNER THAT THEY CAN SUPPORT A DESIGN LOAD OF NOT LESS THAN 200 POUNDS OR THE ACTUAL LOADS, WHICHEVER IS GREATER, WITH A SAFETY FACTOR OF 2.

LIGHT FIXTURE (LESS THAN 56 LBS.)

PROVIDE MINIMUM OF 2 SCREWS AT OPPOSIT CORNERS OF SUPPORT WIRES, OR SCREW ON T-BAR SAFETY CLIPS AT SIDES OR ENDS.

ALLOWABLE CEILING SPANS-L/240 12" = 1'-0" 3

TACO BELL

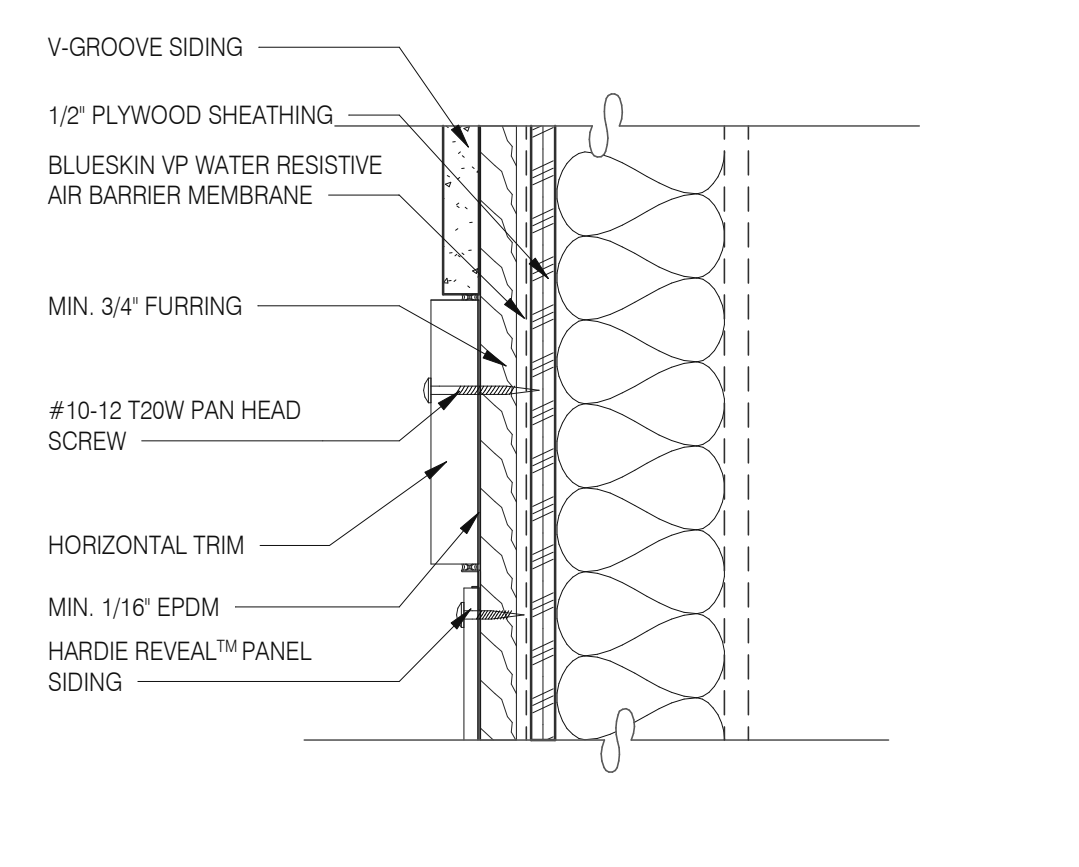
18708 TELEGRAPH ROAD
BROWNSTOWN, MI 48183



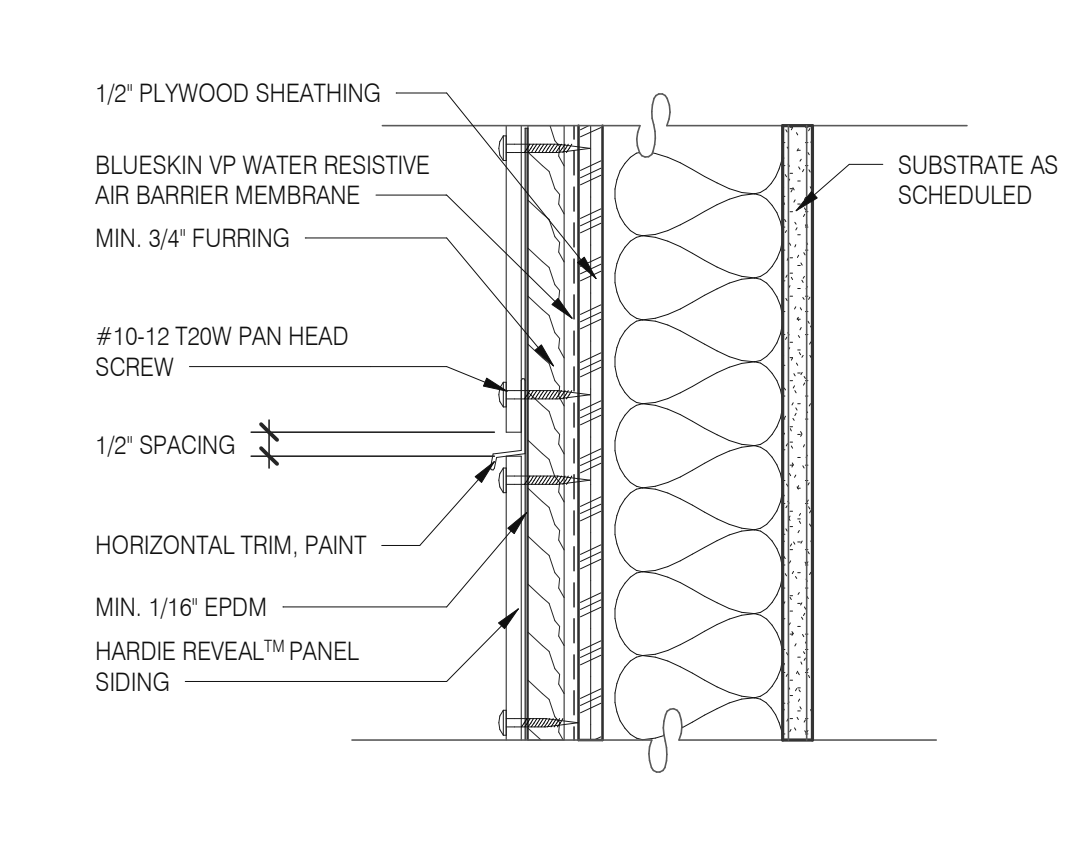
ENDEAVOR 2.0
CEILING
DETAILS

A6.5

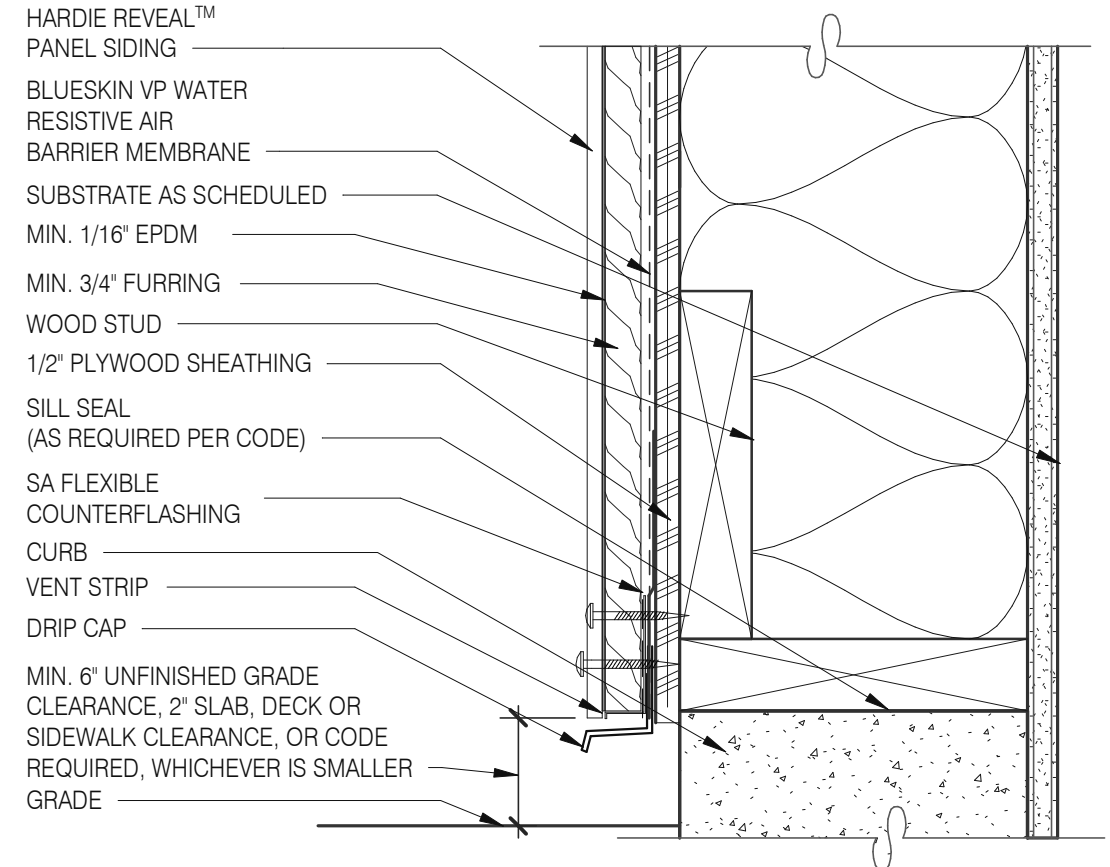
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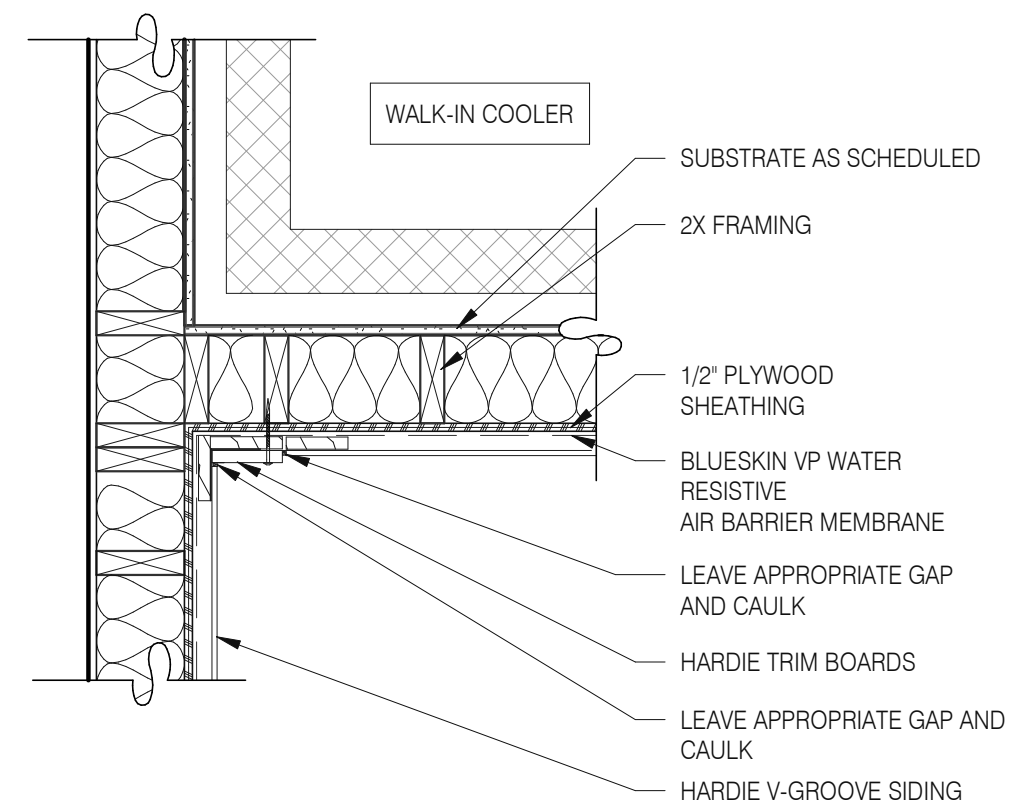
PANEL WITH HORIZONTAL TRIM 3" = 1'-0" **13**



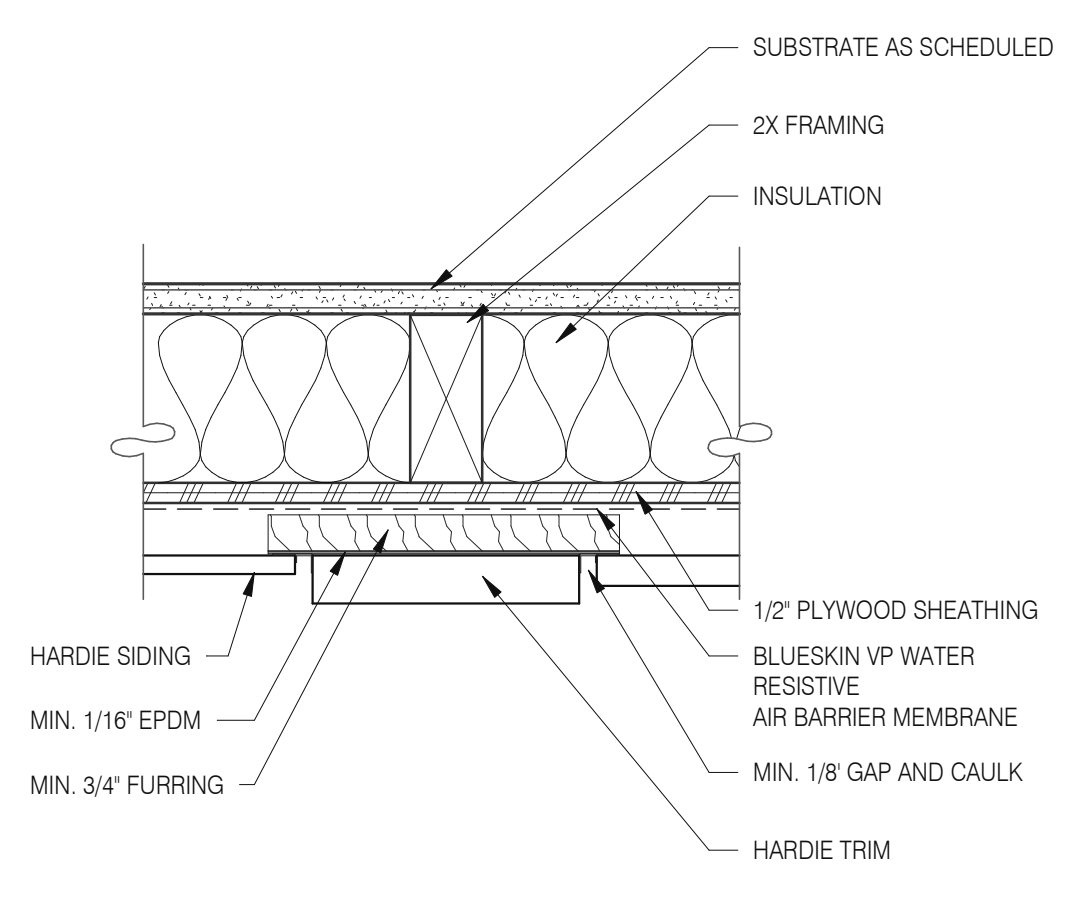
PANEL WITH HORIZONTAL TRIM 3" = 1'-0" **9**



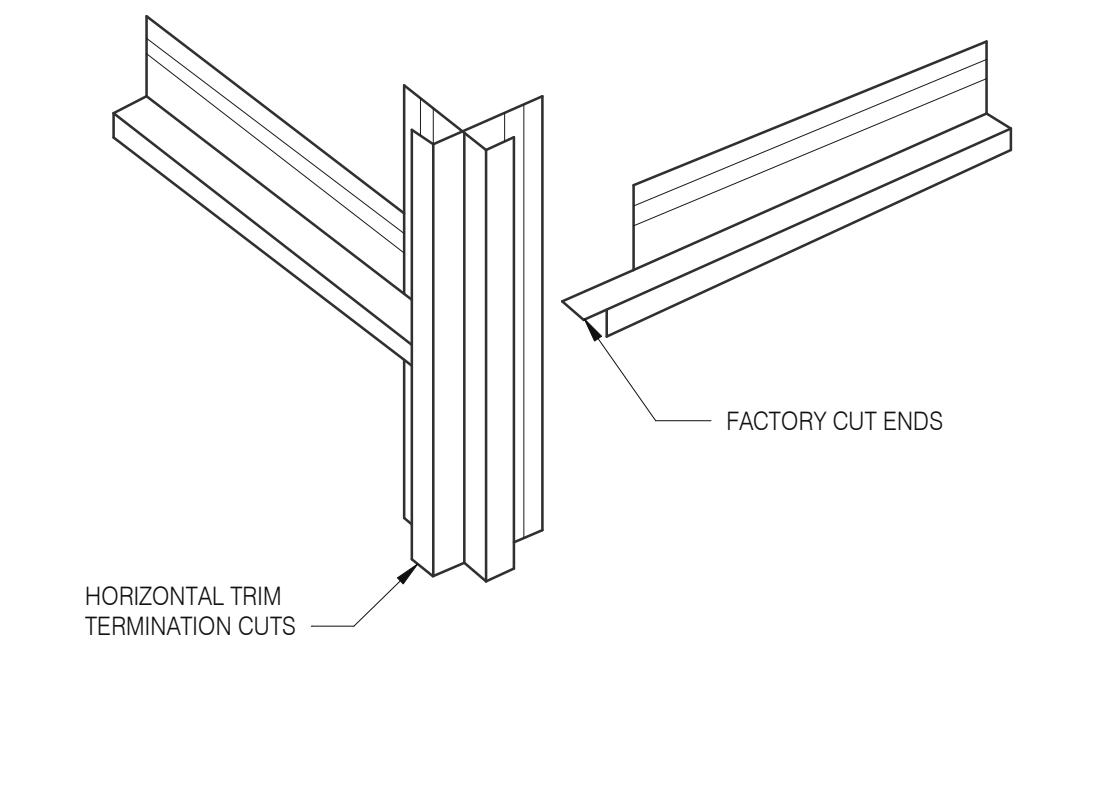
FOUNDATION @ GRADE 3" = 1'-0" **5**



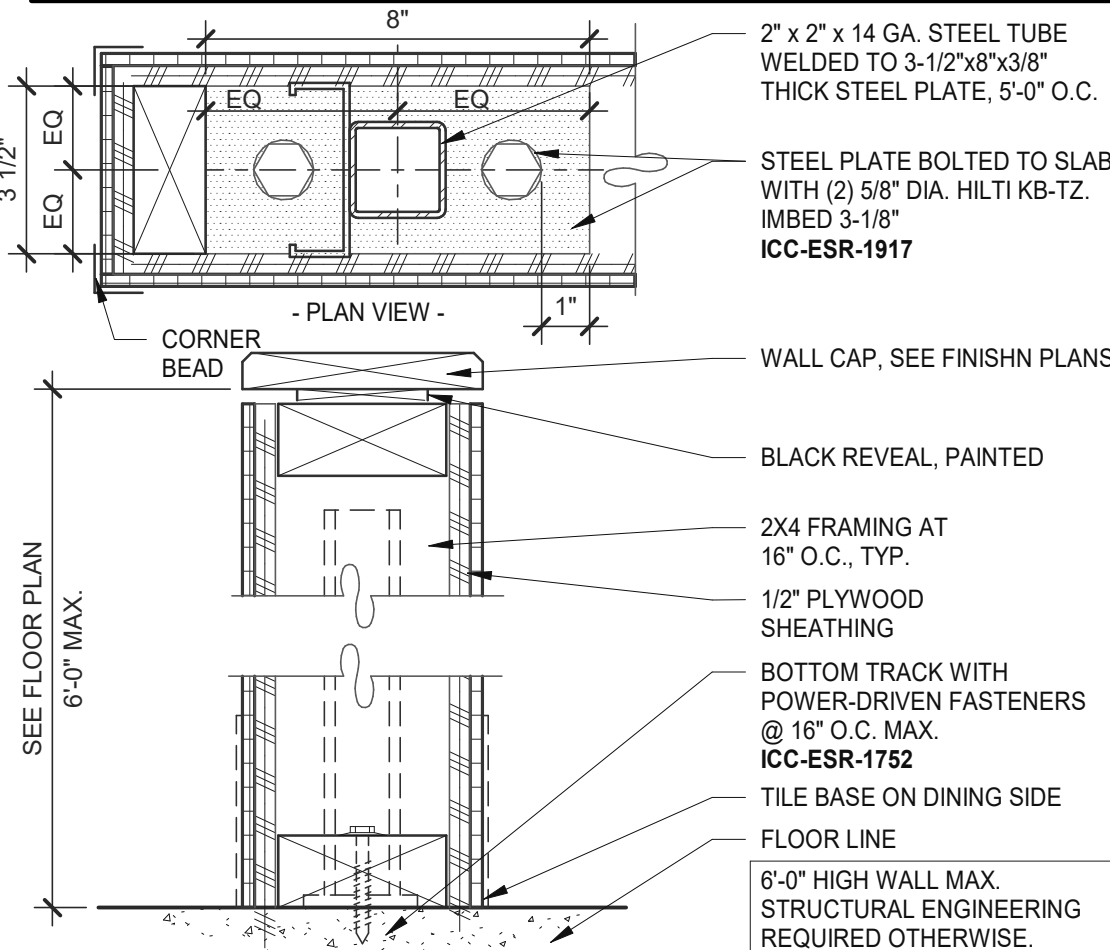
WALK-IN COOLER DETAIL 1" = 1'-0" **18**



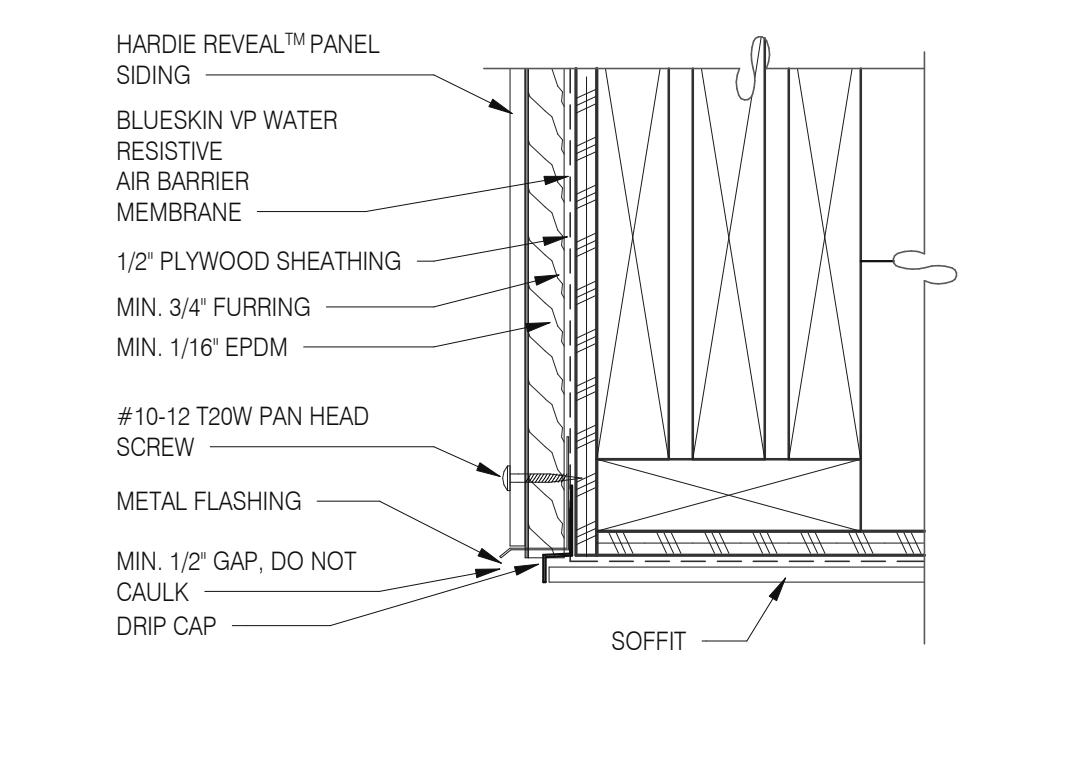
PANEL WITH VERTICAL TRIM 3" = 1'-0" **10**



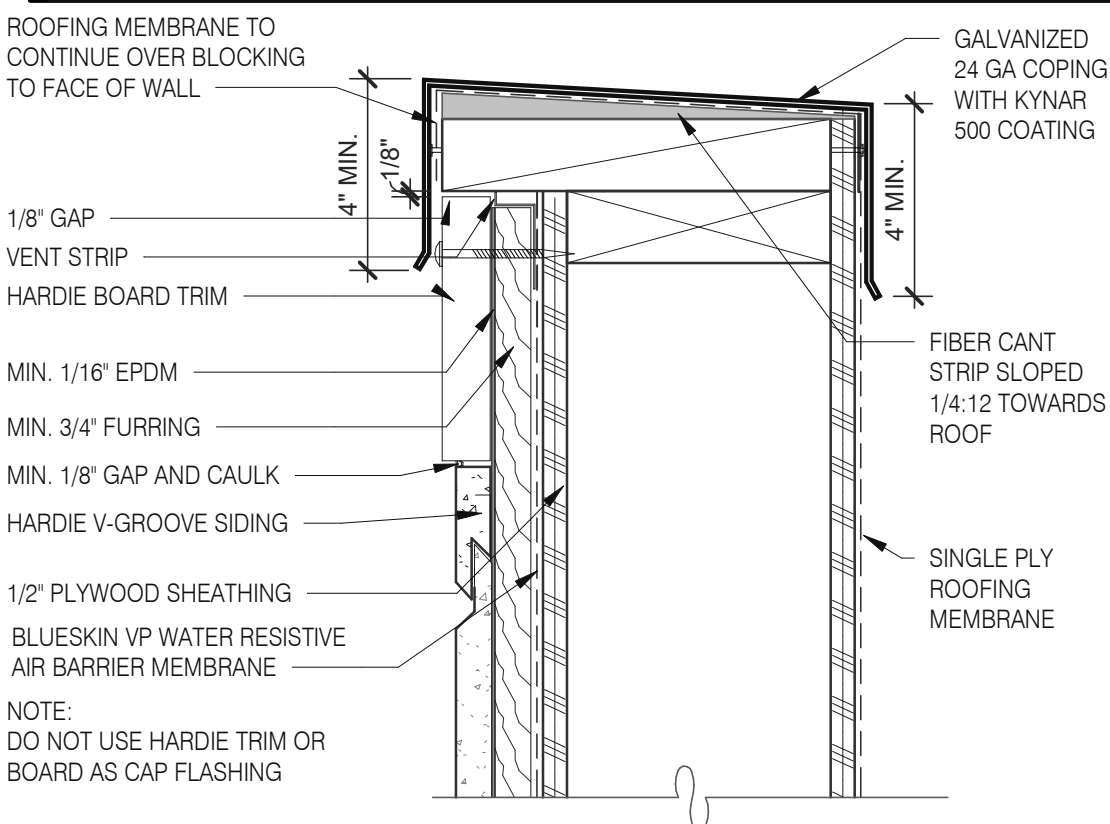
HOR. TRIM - TERMINATION N.T.S. **6**



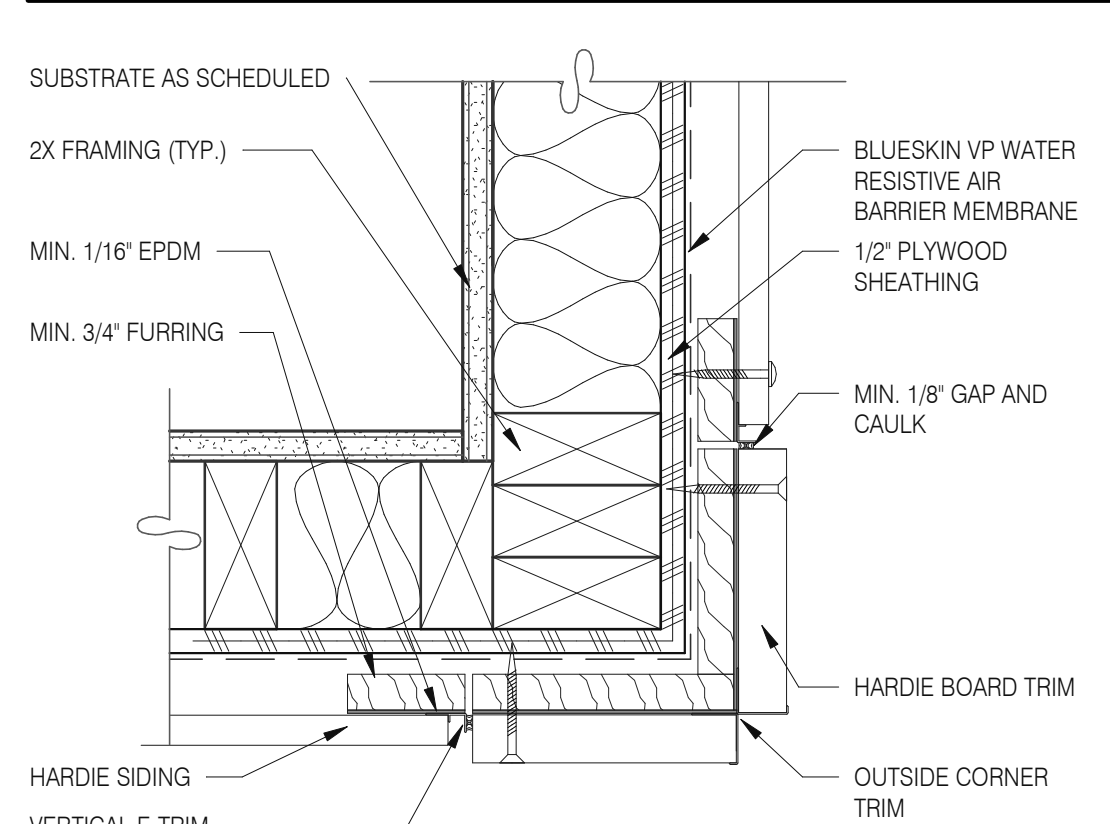
LOW WALL 3" = 1'-0" **15**



SOFFIT FLASHING INTERSECTION 3" = 1'-0" **11**



VENTED PARAPET WALL 3" = 1'-0" **12**



OUTSIDE CORNER TRIM 3" = 1'-0" **8**

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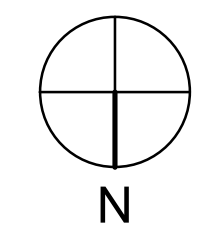
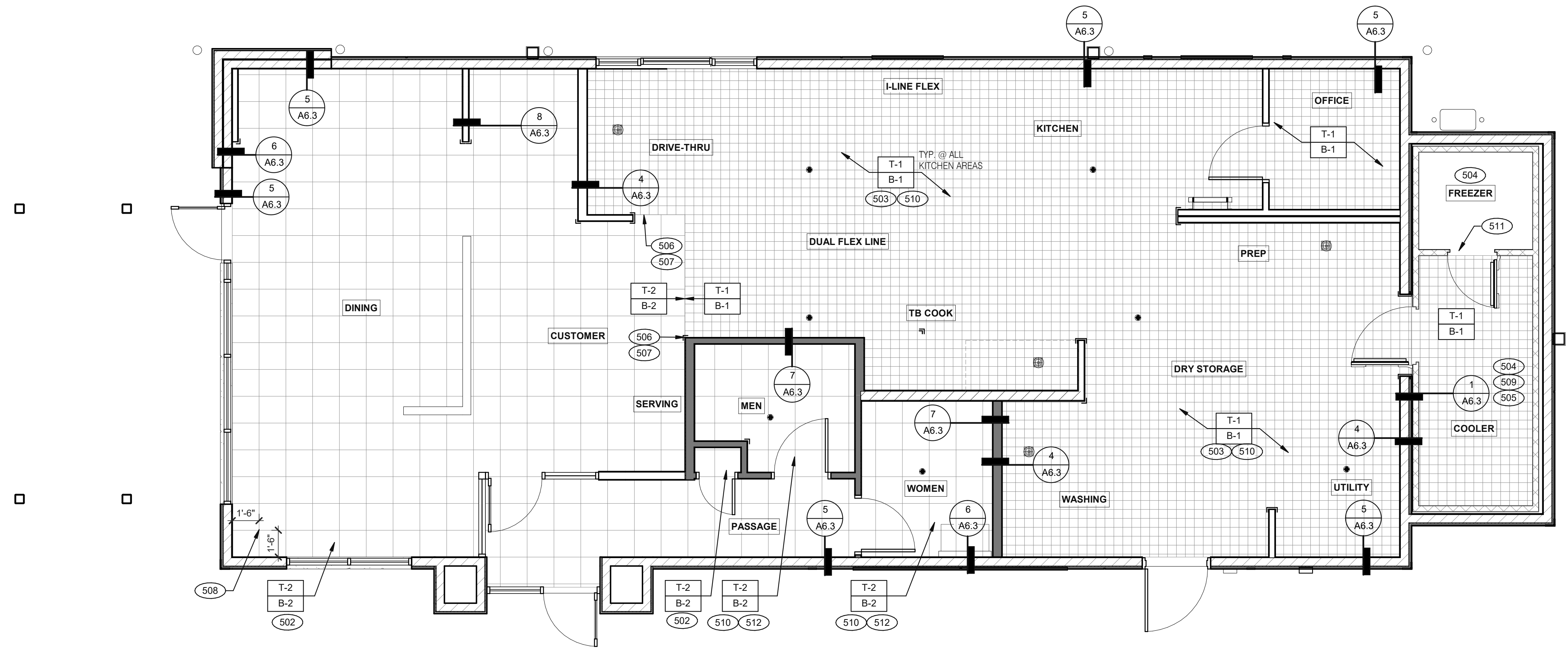
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**ENDEAVOR 2.0
HARDIE BOARD
DETAILS**

A6.6

PLOT DATE: 3/9/2022 10:27:45 AM



FLOOR FINISH PLAN 1/4" = 1'-0" **A**

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 BROWNSTOWN, MI 48183



**ENDEAVOR 2.0
 FLOOR FINISH
 PLAN**

A7.0

PLOT DATE: 3/9/2022 10:27:49 AM

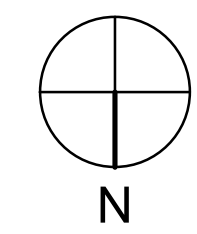
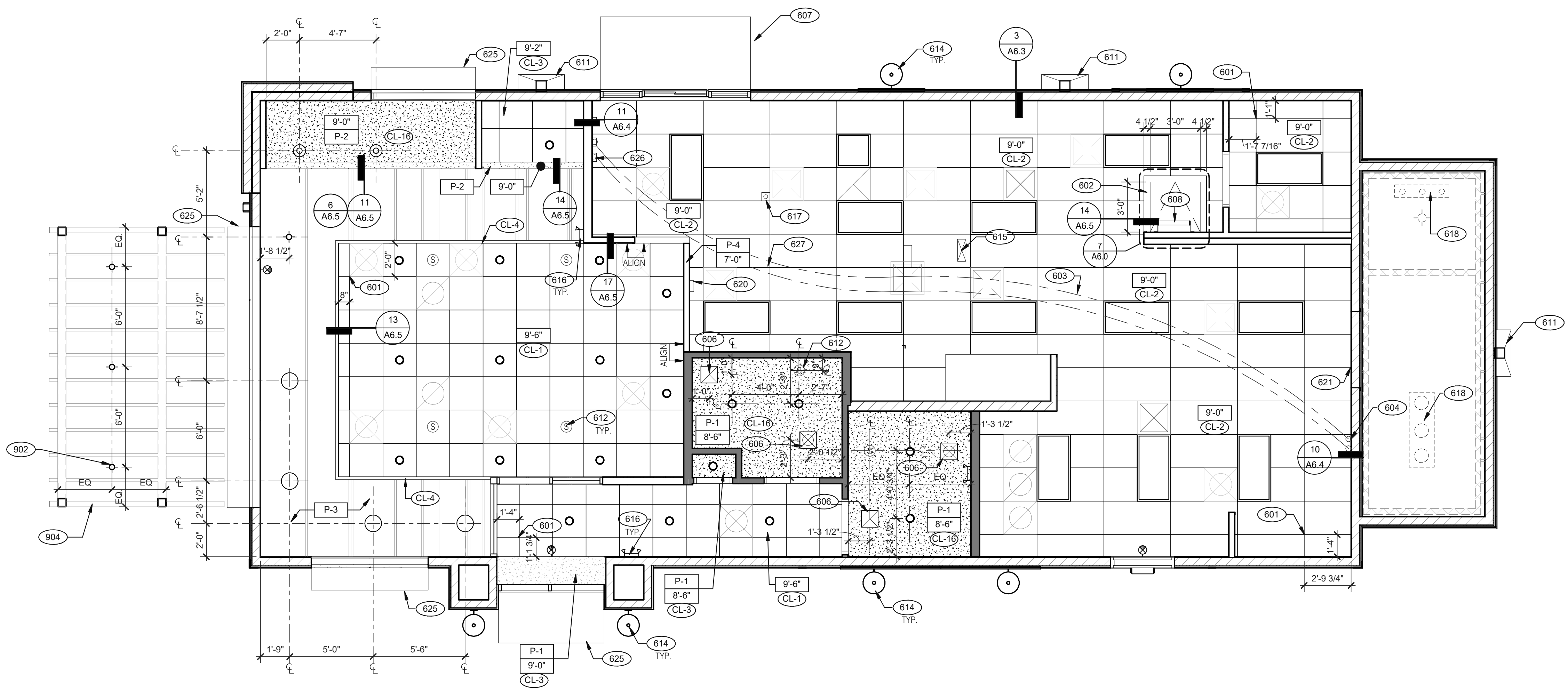
- A.  DENOTES FINISH MATERIAL. REFER TO SHT A7.2 FOR FINISHES
- B. TILE JOINT (I.O.N.):
 1. QUARRY FLOOR TILE: 1/4"
 2. PORCELAIN FLOOR TILE: 3/16"
 3. GLAZED WALL TILE: 1/8"
 4. BASE, TRIM AND ACCESSORIES: MATCH ADJOINING TILE UNITS
- C. TILE INSTALLATIONS REQUIRE MANUFACTURERS STANDARD MOLDED CORNERS AT BOTH INSIDE AND OUTSIDE CORNERS.
- D. ALL BASE TILE SHALL BE SANITARY COVE STYLE WITH 3/8" MIN RADIUS UNLESS NOTED OTHERWISE.
- E. SEE SCOPE OF WORK SHEETS FOR RESPONSIBILITIES.
- F. PROVIDE CLEAR SILICONE CAULK WHERE FRP STOPS AT TOP OF COVE BASE.
- G. TILE CHIPPING AROUND CORE DRILL HOLES FOR SEATING FIXTURE WILL NOT BE ACCEPTED.

- 502 6" COVE TILE BASE. SEE DETAILS 5 & 8/A6.3.
- 503 6" SANITARY COVE TILE BASE. SEE DETAILS 4, 6/A6.3.
- 504 PROVIDE FLOOR TILE INSIDE WALK-IN COOLER (NO TILE OR BASE IN FREEZER). FLOAT FLOOR TILE IN COOLERS TO DRAIN TO KITCHEN. COORDINATE WITH COOLER WALL CONFIGURATION.
- 505 NO BASE TILE BEHIND W-059 FOR WALK-IN COOLER/FREEZER.
- 506 ALIGN FLOOR TILE TRANSITION WITH FACE OF WALL.
- 507 FLOAT FLOOR TILE FOR FLUSH TRANSITION.
- 508 START POINT FOR FLOOR TILE.
- 509 METAL BASE IN COOLER; SEE SCOPE OF WORK. SEE DETAIL 1/A6.3.
- 510 REFER TO STRUCTURAL DRAWINGS FOR CONCRETE FLOOR SLOPES AROUND FLOOR DRAINS.
- 511 STEP-UP AT FREEZER THRESHOLD.
- 512 SANITARY TILE BASE IN RESTROOM.

NOT USED **D**

FLOOR FINISH NOTES **C**

KEY NOTES **B**



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

DATE	REMARKS
07.21.21	Issued for Permit
03.11.22	Issued for Construction

CONTRACT DATE: 06.22.21
 BUILDING TYPE: END. MED20
 PLAN VERSION: MARCH 2021
 BRAND DESIGNER: DICKSON
 SITE NUMBER: 315089
 STORE NUMBER: 40164
 PA/PM: SM
 DRAWN BY.: RS
 JOB NO.: 2019088.31

TACO BELL

18708 TELEGRAPH ROAD
BROWNSTOWN, MI 48183



ENDEAVOR 2.0 REFLECTED CEILING PLAN

A7.1

PLOT DATE: 3/9/2022 10:27:54 AM

CEILING SYMBOL LEGEND	
	1'-0" x 4'-0" LED TROFFER
	2'-0" x 4'-0" LED TROFFER
	2'-0" x 4'-0" LED LIGHT FIXTURE
	DOWNLIGHT @ WALK-IN (BY WALK-IN MFR.)
	PENDANT FIXTURE.
	DOWNLIGHT - CENTER ON CEILING TILE
	EMERGENCY LIGHT
	EXIT LIGHT (WALL MOUNTED)
	EXIT LIGHT (CEILING MOUNTED)
	EXTERIOR WALL FIXTURE
	SPEAKER - CENTER ON CEILING TILE
	12" EXHAUST FAN
	HVAC RETURN GRILLE
	HVAC SUPPLY DIFFUSER
	BACK DOOR SECURITY STROBE LIGHT
	OCCUPANCY SENSOR CEILING MOUNTED

CEILING SYMBOL LEGEND **D**

DIMENSIONS:
 A. ALL DIMENSIONS ARE TO FACE OF FINISH U.O.N.

CEILING FINISHES:
 A. REFER TO ROOM FINISH SCHEDULE (SHT A7.2) FOR CLG. FINISHES.

SUSPENDED CEILING:
 A. ACOUSTICAL PANEL INSTALLATION: INSTALL ACOUSTICAL PANELS WITH EDGES IN CLOSE CONTACT WITH METAL SUPPORTS AND IN TRUE ALIGNMENT.
 B. ALLOWABLE VARIATIONS FROM FLAT AND LEVEL SURFACE: 1/8" IN 10'-0" MAX.
 C. ALLOWABLE VARIATIONS FROM PLUMB OF GRID MEMBERS: AS CAUSED BY ECCENTRIC LOADS, 2" MAX.
 D. INSTALL SYSTEM AFTER MAJOR ABOVE CLG. WORK IS COMPLETE. COORD LOCATIONS OF HANGERS WITH RELATED WORK.
 E. SEE SPECS FOR ADDITIONAL INFORMATION.

GYPSUM BOARD CEILING:
 A. SUBSTRATE SHALL BE 1/2" THICK GYP. BD.
 B. ACOUSTICAL SEALANT: APPLY TO GYP. BD. PANELS AS INDICATED IN SPECS.
 GYP. BD. FINISHING AND DECORATING: REFER TO DWGS FOR TEXTURE AND FINISHES.

ELECTRICAL:
 A. SEE ELECT. DWGS. FOR FIXTURE SCHED.

REFLECTED CEILING PLAN NOTES **C**

- 601 CEILING GRID AT STARTING POINT.
- 602 BULKHEAD @ 8'-0" A.F.F.
- 603 NON-INSULATED BUNDLED SYRUP LINES FOR DRINK SYSTEM. SEE SCOPE OF WORK.
- 604 6" DIAMETER PVC STUB THROUGH CEILING, SEE DETAIL 10/A6.4.
- 606 FOR ROUGH FRAMING OPENINGS SEE AIR DEVICE SCHEDULE (TYP. ALL RESTROOMS).
- 607 DRIVE-THRU CANOPY.
- 608 ROOF HATCH.
- 611 VERTICAL DOWNSPOUT.
- 612 SPEAKER. CENTER ON CEILING TILE, UON.
- 614 EXTERIOR WALL LIGHT FIXTURES, SEE ELEVATIONS AND ELECTRICAL DRAWINGS.
- 615 UTILITY CHASE BY 3RD PARTY VENDOR TO CEILING.
- 616 EMERGENCY DUAL HEAD FIXTURE. SEE ELECTRICAL DRAWINGS.
- 617 SECURITY STROBE LIGHT, REFER TO ELECTRICAL DRAWINGS.
- 618 FAN COIL FOR WALK-IN.
- 620 ALERT LIGHT BOX FOR 3-COMP POWER SOAK MOUNTED AT CENTERLINE OF BOX 7'-11" A.F.F.
- 621 30"x30" ACCESS OPENING IN REAR WALL ABOVE CEILING. FINISH WITH GYP. BD.
- 625 AWNING, SEE SCOPE OF WORK.
- 626 STAINLESS STEEL SYRUP CHASE ON WALL. SEE DETAIL 11/A6.4.
- 627 WATER INLET CHASE FOR CHEESE MELTER SCREWED TO HEATED AIR SCREEN.

- 902 EXTERIOR LIGHTS, REFER TO ELECTRICAL LIGHTING PLANS.
- 904 PATIO CANOPY, PROVIDED AND INSTALLED BY G.C. SEE SHEET A9.0 FOR DETAILS.

KEY NOTES **B**



FINISH LEGEND						
SYMBOL	MANUFACTURER	STYLE	COLOR	SIZE	GROUT	COMMENTS
CEILING						
CL-1	USG	ACT SYSTEM, USG RADAR, CLIMAPLUS PERFORMANCE, SQ EDGE	#107 TAUPE	2X2	N/A	USG DONN BRAND DX/DXL 15/16 TEE SYSTEM, INTERMEDIATE DUTY #107 TAUPE
CL-2	USG	ACT SYSTEM, USG CLEAN ROOM ACOUSTICAL PANELS, CLIMAPLUS PERFORMANCE, SQ EDGE	#050 WHITE	2x4	N/A	CLASS 100 (ISO 5) PANELS, USG DONN BRAND DX/DXL 15/16 TEE SYSTEM, INTERMEDIATE DUTY #050 WHITE
CL-3	USG	ACT SYSTEM, USG CLEAN ROOM ACOUSTICAL PANELS, CLIMAPLUS PERFORMANCE, SQ EDGE	#050 WHITE	2X2	N/A	CLASS 100 (ISO 5) PANELS, USG DONN BRAND DX/DXL 15/16 TEE SYSTEM, INTERMEDIATE DUTY #050 WHITE
CL-4	USG	USG COMPASSO STANDARD	#002 SILVER SATIN	10"H PROFILE		SEE PLANS AND DETAILS FOR MORE INFO
CL-16	N/A	GYPSUM BOARD	PAINTED PER RCP			
CHAIR RAIL						
CR-1	SW	SW7043	WORLDLY GRAY	3 1/2" X 3/4"		SEMI-GLOSS
FLOOR BASE						
B-1	CMC	QUARRY	PURITAN GREY #507	6X6	MAPEI #9 GRAY, 1/8" JOINT WIDTH	KERAPOXY GROUT IEG CO
B-2	CMC	MOTIF GREY	GREY	6X12	MAPEI, #2 PEWTER, 1/8" JOINT WIDTH	
FLOORING						
T-1	CMC	QUARRY	PURITAN GREY #507	6X6	MAPEI #9 GRAY, 1/8" JOINT WIDTH	KERAPOXY GROUT IEG CO
T-2	CMC	MOTIF GREY	GREY	18X18	MAPEI, #2 PEWTER, 1/8" JOINT WIDTH	
FRP/LAMINATE						
FRP-1	MARLITE	SMOOTH SURFACE	S100 S/2/S WHITE	4' X 9' X .90		COORDINATE ALL TRIM PIECES WITH FRP MFG
L-1	WILSONART	4783K FINISH 7	WHITE TIGRIS			OFFICE SHELVING LAMINATE
L-2	WILSONART	Y0664K-12	MOCHA ASH			SOFTGRAIN FINISH, RR/UTILITY DOORS VERTICAL GRADE PRODUCT CODE #362 IS .028" AND HORIZONTAL GRADE PRODUCT CODE #372 IS .039"
CORNER GUARDS						
CG-1	C.S GROUP	ACROVYN VA SERIES	VA-034N #934 PEARL	3/4" X 3/4"		FOR PAINT MATCH P-1
CG-2	C.S GROUP	ACROVYN VA SERIES	VA-034N #262 DRIFTWOOD	3/4" X 3/4"		FOR PAINT MATCH CR-1 & WC-1
METAL TRANSITION						
MT-1	SCHLUTER	JOLLY	A 100 AT - SATIN NICKEL ANODIZED ALUMINUM	3/8"	N/A	TILE EDGE TRIM DETAIL 17/A6.3
MT-3	SCHLUTER	RONDEC - ALUMINUM		3/8"	N/A	TILE EDGE TRIM DETAIL 17/A6.3
SOLID SURFACE						
SS-1	CORIAN	LAVA ROCK	LAVA ROCK			COUNTERTOPS/24" DIAMETER TABLE TOP
WALL COVERING						
WC-1	WOLF GORDON	RAMPART HIGH IMPACT WALL COVERING	FOUNDATION/ PIGMENT (GOH 12172606)		RAILROAD INSTALLATION: THERE SHOULD BE NO SEAMS ALONG WALLS	1 ROLL: 80 L.F.
WALL PAINT						
P-1	SHERWIN WILLIAMS	SW7021	SIMPLE WHITE	N/A	N/A	PAINT FINISH: WALLS: EGGSHELL TRIM/BOH: SEMI-GLOSS (CHAIR RAIL) CEILING: FLAT
P-2	SHERWIN WILLIAMS	TB2603C	PURPLE	N/A	N/A	
P-3	SHERWIN WILLIAMS	SW7076	CYBER SPACE	N/A	N/A	
P-4	SHERWIN WILLIAMS	SW7005	PURE WHITE	N/A	N/A	
WALL TILE						
W-1	CMC	FORM	ICE DECO MIX	8X8	MAPEI #47 CHARCOAL, 1/8" JOINT WIDTH	RESTROOM ACCENT WALL TILE
W-2	CMC	FORM	ICE	8X8	MAPEI #47 CHARCOAL, 1/8" JOINT WIDTH	RESTROOM WALL TILE
W-3	CMC	SALVAGEWOOD	WHITEWASH	3X36	MAPEI #01 ALABASTER, 1/8" JOINT WIDTH	RUNNING BOND INSTALLATION OFFSET 25%

NOT USED **A**

FINISH LEGEND **D**

<p>WESTERN STATES METAL ROOFING JESSICA TRIER INSIDE SALES REPRESENTATIVE P: (602) 495-0048 D: (602) 422-2696 W: www.metairroofing.com JESSICA@METALDECK.COM</p> <p>CORIAN DAVID GREENING NA COMMERCIAL SALES FOOD SERVICE/RETAIL SEGMENT SALES LEADER CORIAN DESIGN (614) 975-6700 DAVID.P.GREENING@DUPONT.COM</p> <p>JAMES HARDIE MATT PETERSEN CELL: (707)536-8271 MATTHEW.PETERSEN@JAMESHARDIE.COM</p>	<p>CREATIVE MATERIALS CORP. ALLISON PICHE CLIENT SERVICES SUPERVISOR ONE WASHINGTON SQUARE, ALBANY, NY 12205 P: (518) 452-9694 D: (518) 713-5395 APICHE@CREATIVEMATERIALSCORP.COM</p> <p>SHERWIN WILLIAMS SUNNY PATEL NATIONAL ACCOUNT EXECUTIVE 2100 W. ORANGEWOOD AVE. SUITE 100 ORANGE, CA 92868 (619) 990-1920 SUNDEEPAKUMAR.PATEL@SHERWIN.COM</p> <p>WOLF GORDON JESSICA ROSE (213)999-1141 JESSICA.ROSE@WOLFGORDON.COM</p>	<p>USG CORPORATION TRAVIS TOMANEK CORPORATE ACCOUNT MANAGER (440) 541-3972 TTOMANEK@USG.COM</p> <p>MARLITE DAN EGBERS REGION SALES MANAGER - SPECIFICATIONS MARLITE, INC. P: (800) 377-1221 M: (330) 260-7633 1 MARLITE DRIVE, DOVER, OH 44622 www.marlite.com degbers@marlite.com</p>	<p>MAPEI LISA FYKE ARCHITECTURAL REPRESENTATIVE MAPEI CORP. (909) 247-5324 LFYKE@MAPEI.COM</p>
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FINISH CONTACTS **C**

NOT USED **B**

DATE	REMARKS
07.21.21	Issued for Permit
03.11.22	Issued for Construction

CONTRACT DATE: 06.22.21
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BRAND DESIGNER: DICKSON
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PA/PM: SM
DRAWN BY.: RS
JOB NO.: 2019088.31

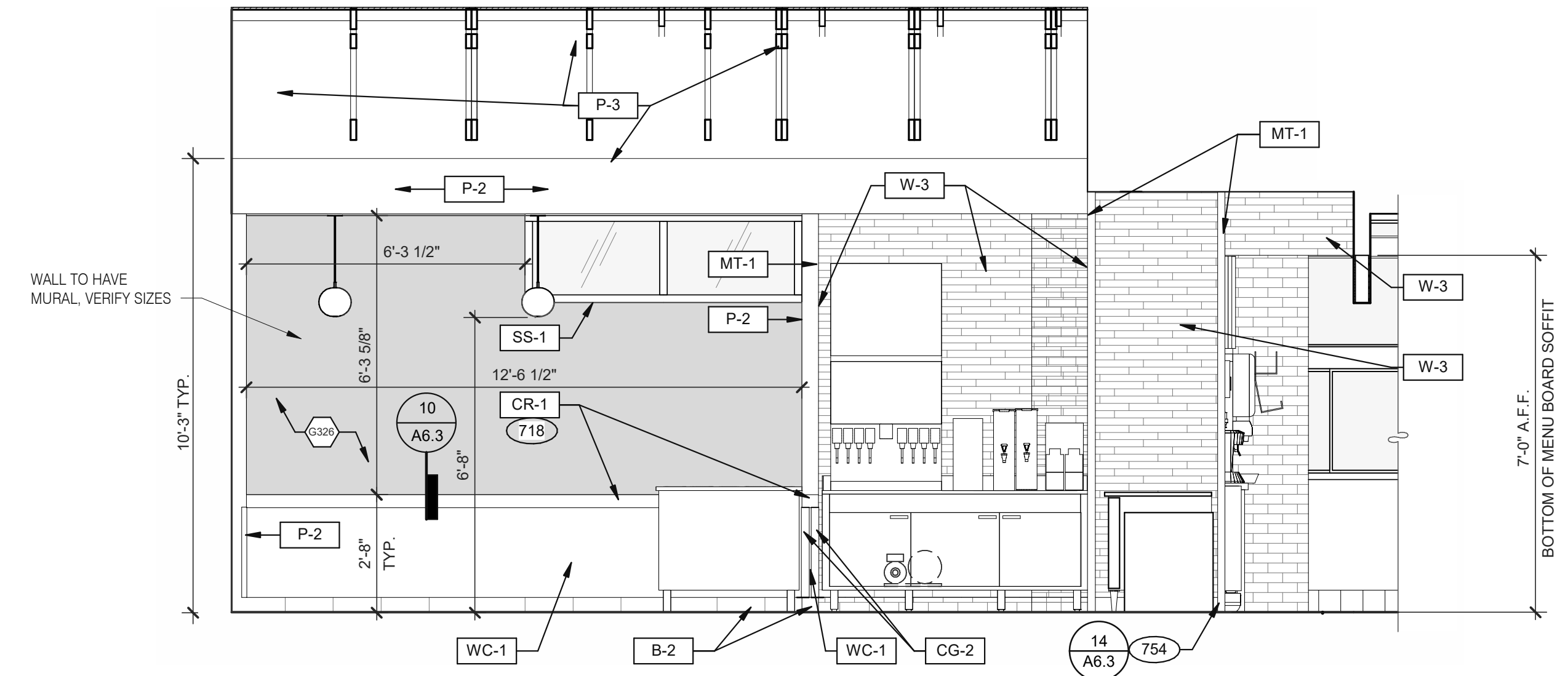
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BROWNSTOWN, MI 48183



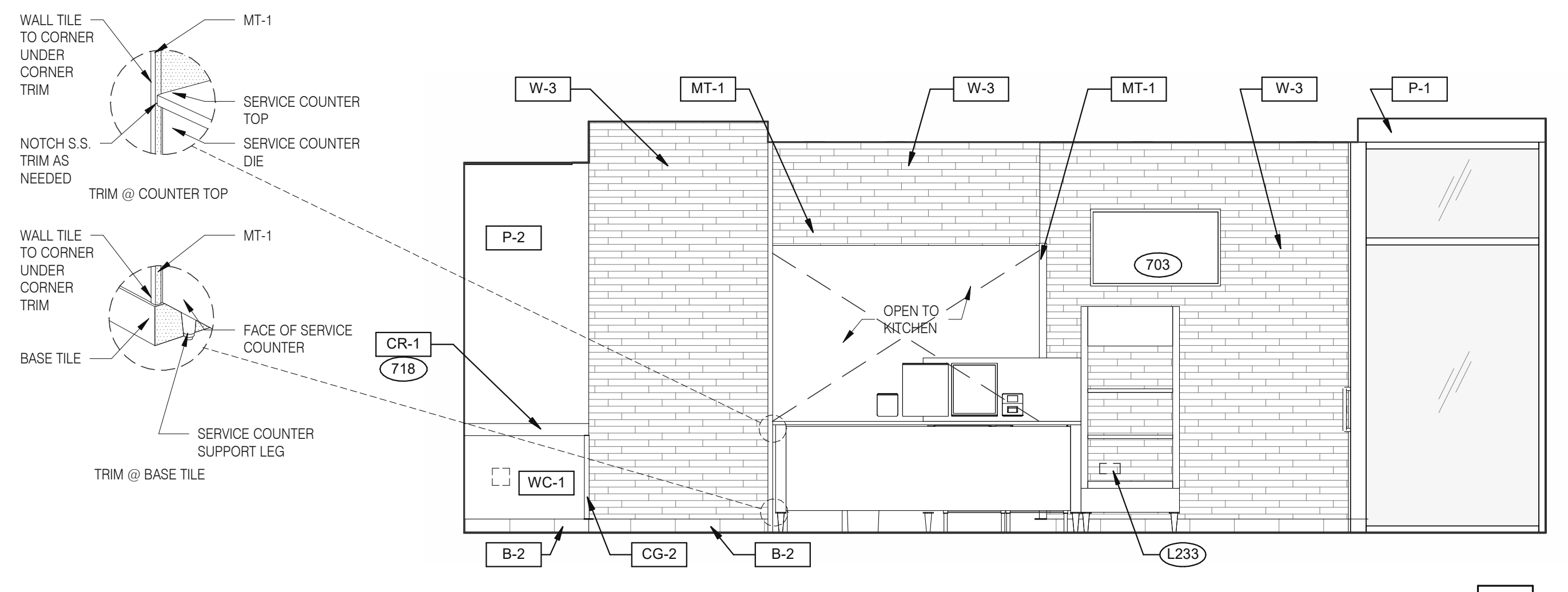
**ENDEAVOR 2.0
FINISH
SCHEDULE**

A7.2

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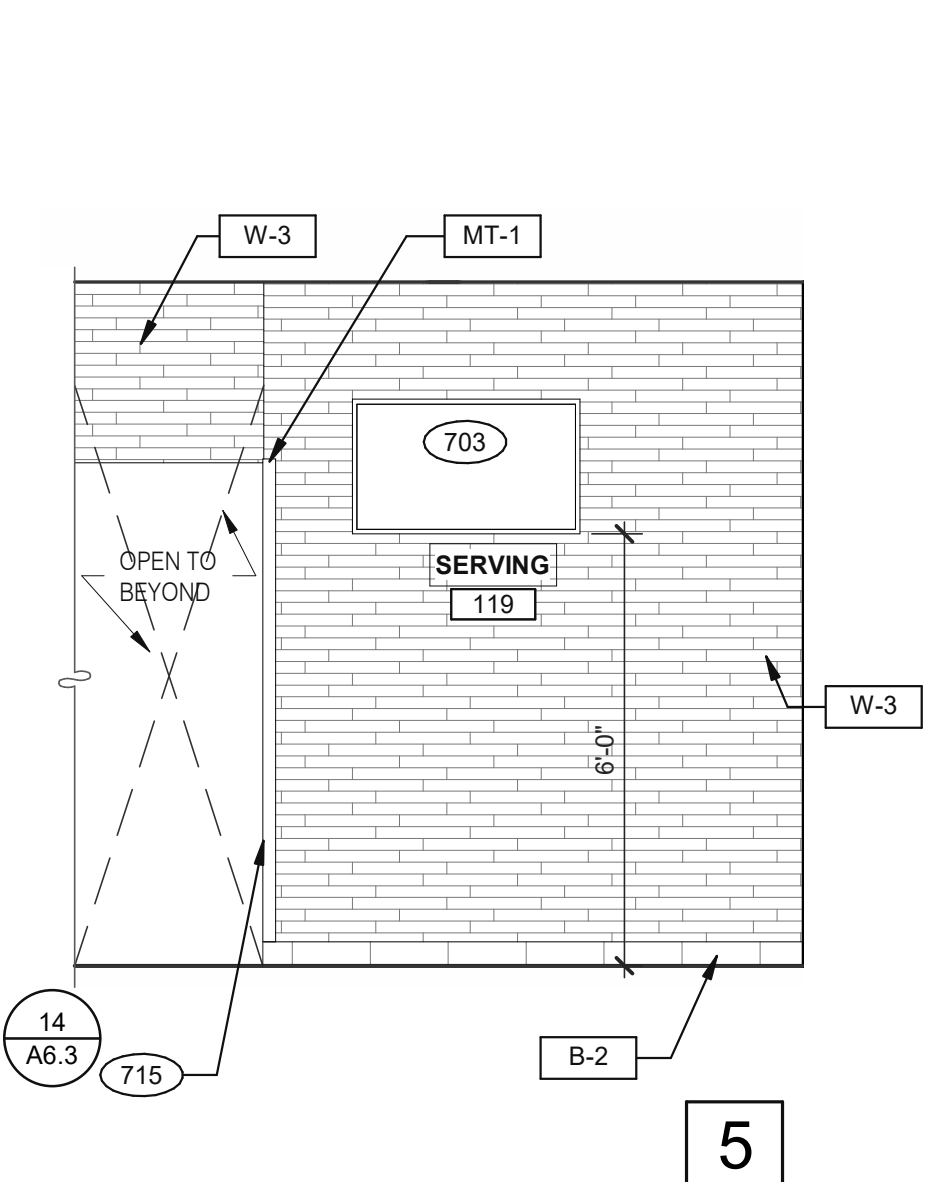


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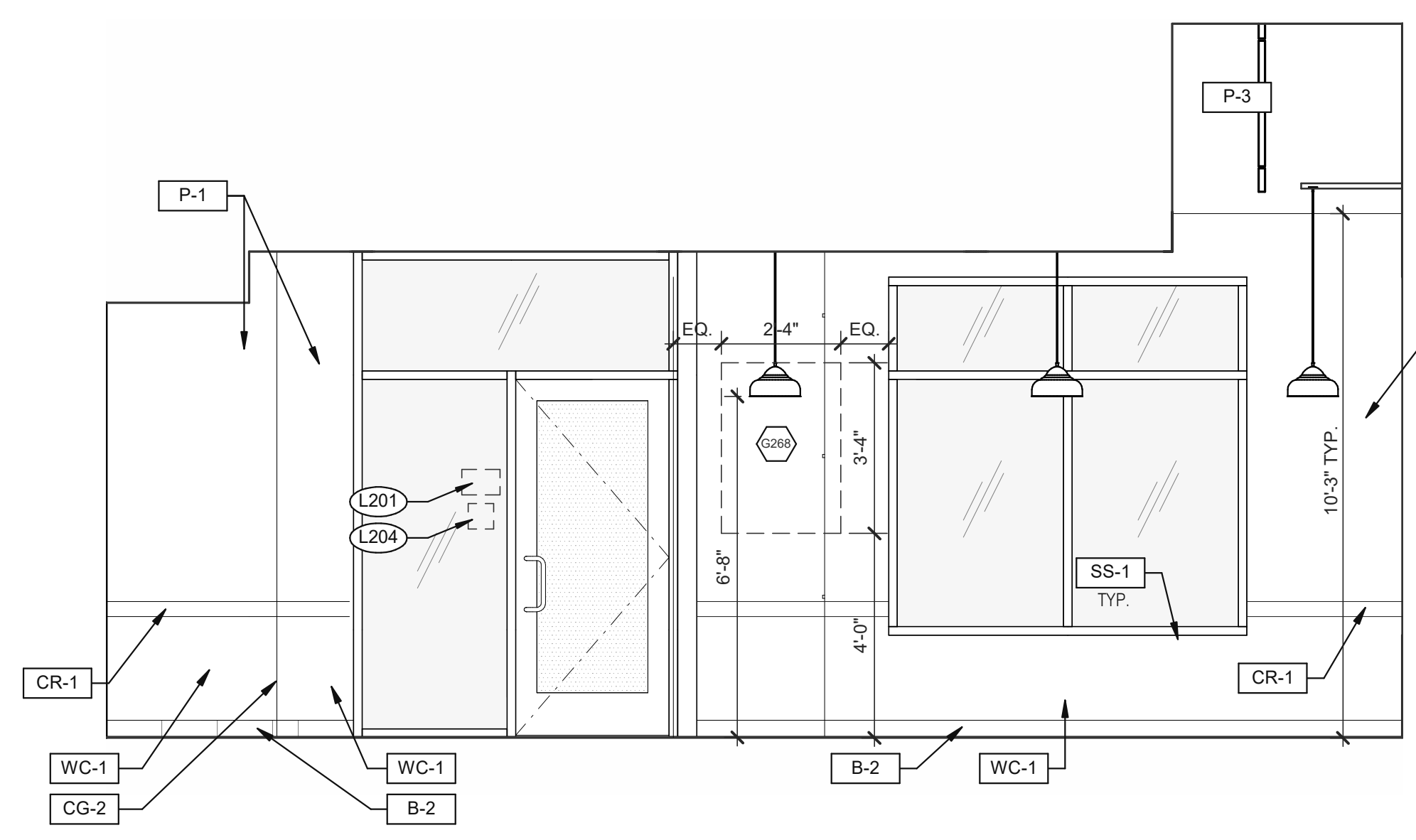


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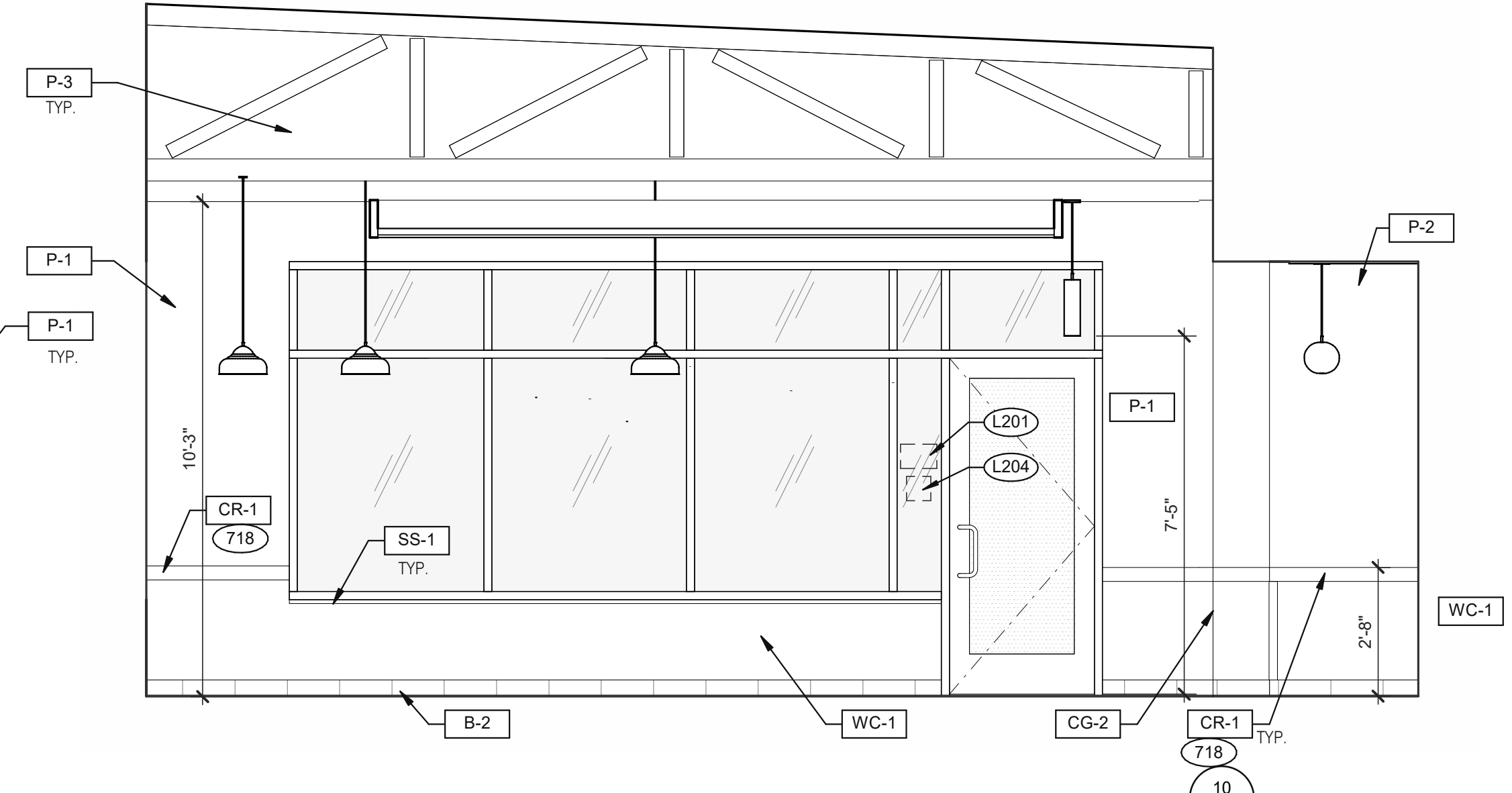
DINING 3/8" = 1'-0"



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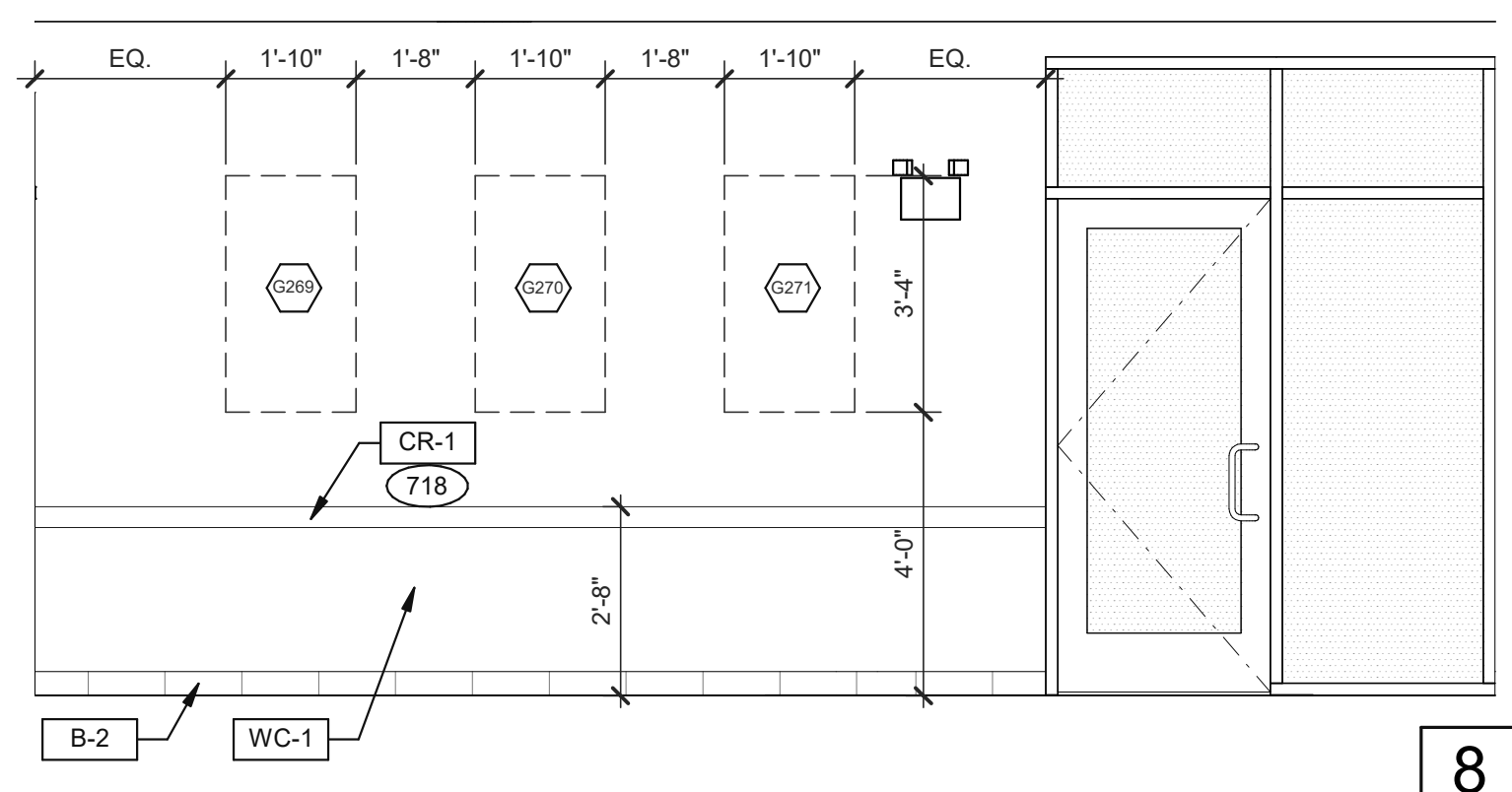


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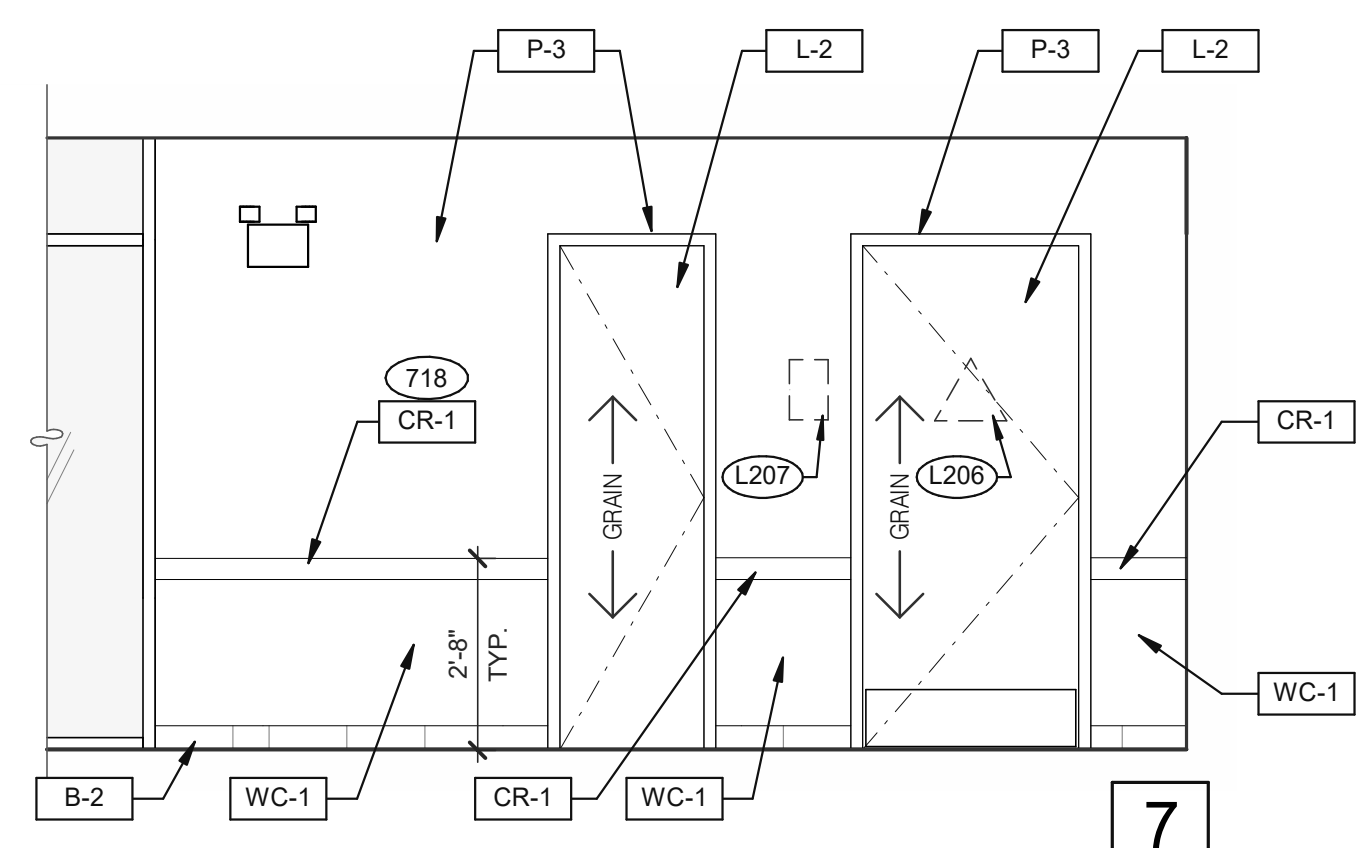


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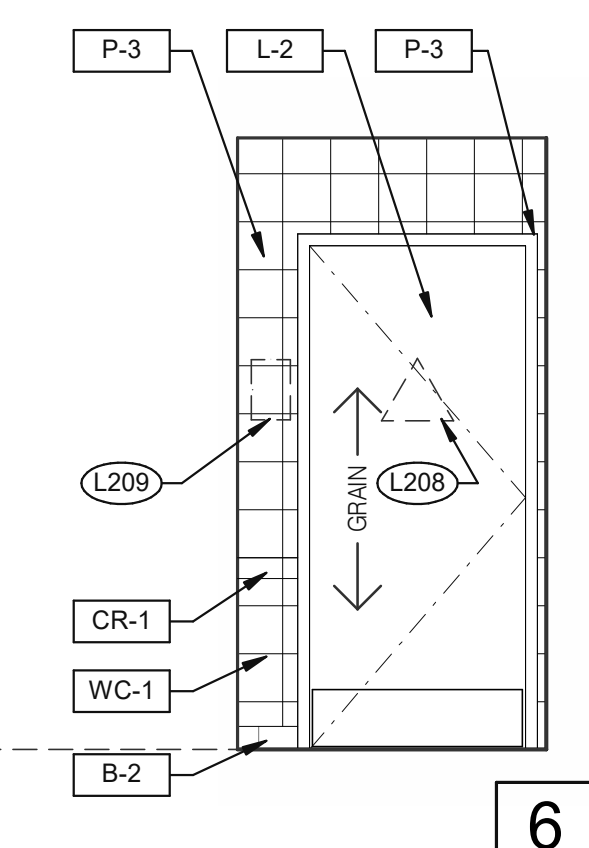
DINING 3/8" = 1'-0"



8



7



6

DESIGNER NOTE: CALIFORNIA ADA RESTROOM SIGNAGE SIGNS MUST BE 1/4" THICK, AND IN CONTRASTING COLOR TO THE SURFACE ON WHICH THEY ARE INSTALLED.
DOOR: GENDER NEUTRAL SIGN (E#: E7000974)
WALL SIGN: FAMILY RESTROOM SIGN WITH BRAILLE (E#: E76000972)

- 703 LTO MENUBOARD.
- 715 SS CORNER/END WALL CHANNEL GUARD, FULL HEIGHT. SEE DETAIL 14/A6.3 AND
- 718 CHAIR RAIL.
- 754 SS CORNER/END WALL CHANNEL GUARD, FULL HEIGHT.

PASSAGE 3/8" = 1'-0"

KEYNOTES

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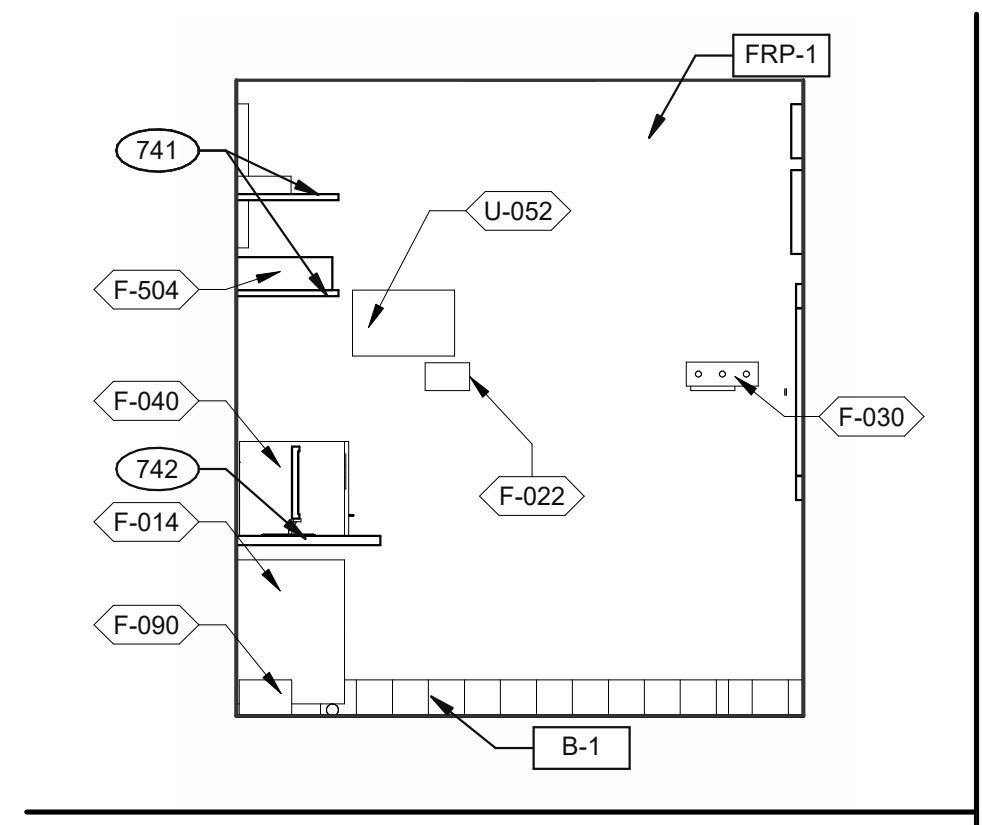
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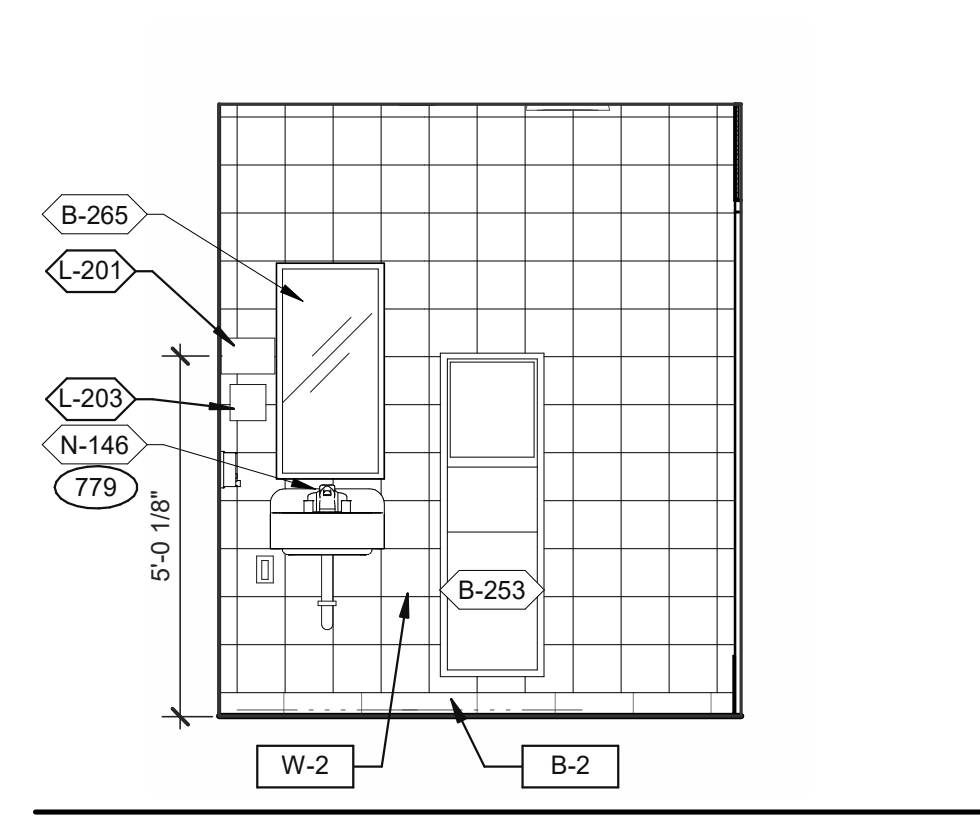
ENDEAVOR 2.0
INTERIOR
ELEVATIONS
DINING ROOM

A8.0

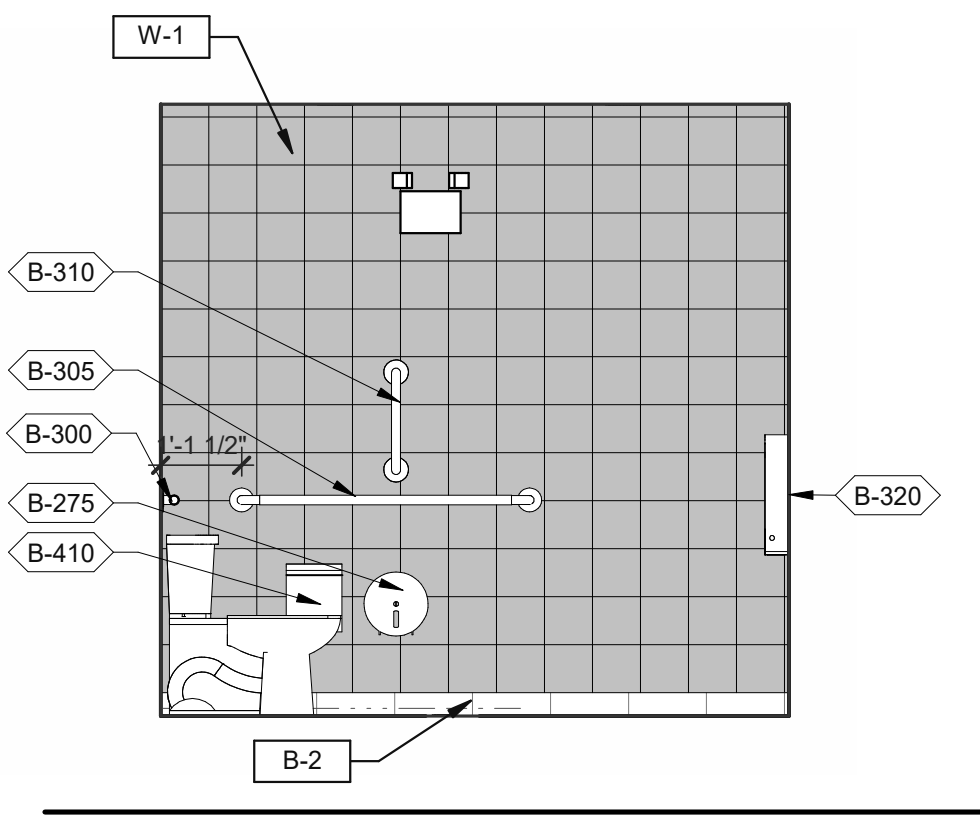
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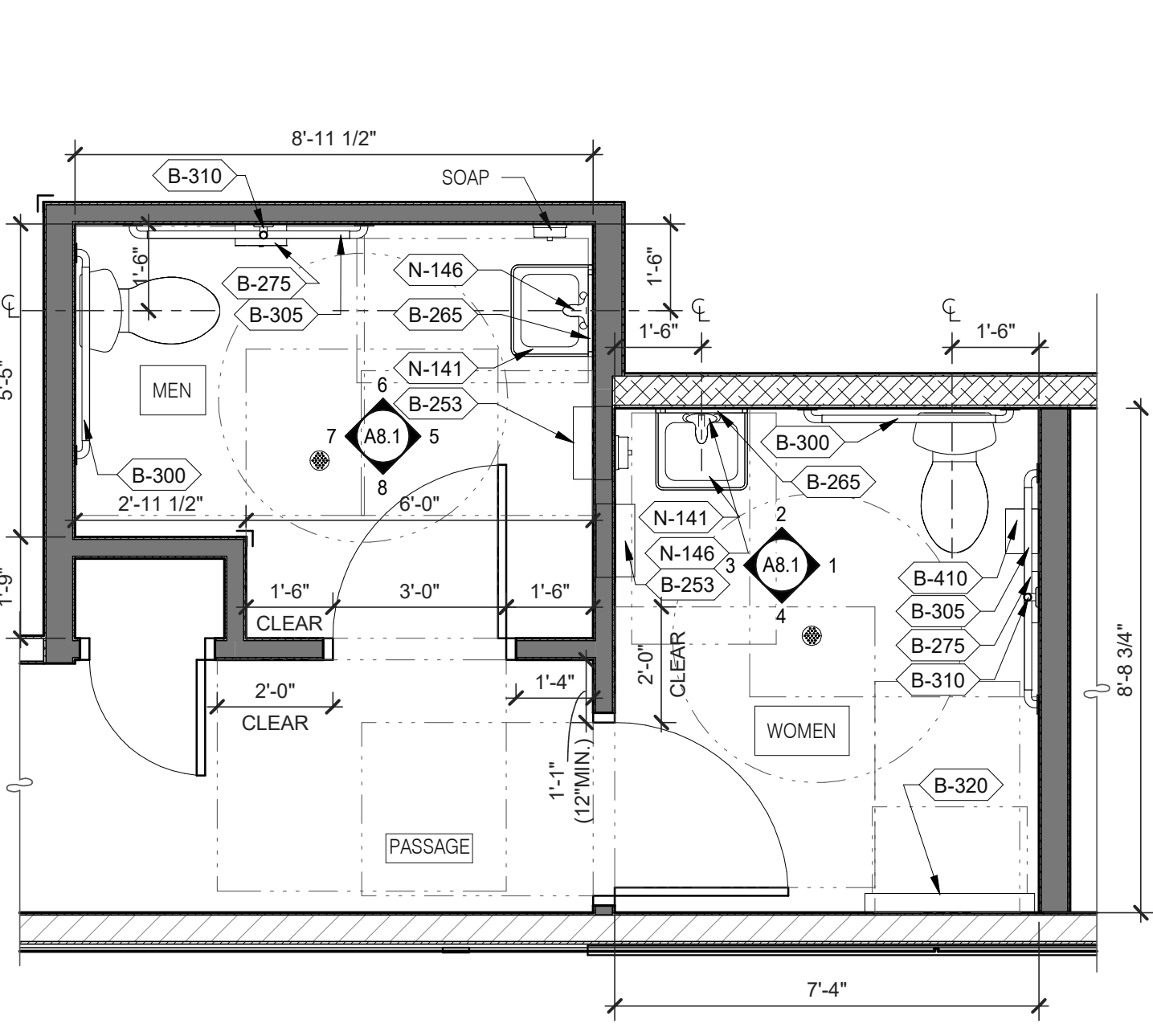
OFFICE ELEVATION 3/8" = 1'-0" **9**



MEN'S RESTROOM 3/8" = 1'-0" **5**



WOMEN'S RESTROOM 3/8" = 1'-0" **1**

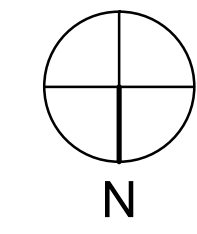


- A. PROVIDE PROPER 2x BLOCKING AT WALL RECESSED MOUNTED ACCESSORIES.
- B. GRAB BARS, FASTENERS AND MOUNTING DEVICES SHALL BE INSTALLED PER ADA REQUIREMENTS. REFER TO SHEET ADA1.0
- C. REFER TO FLOOR PLAN NOTE FOR BLOCKING AND SUBSTRATE NOTES.
- D. REFER TO SHEET ADA1.0 FOR MOUNTING HEIGHTS AND CLEARANCES OF ACCESSORIES AND FIXTURE.

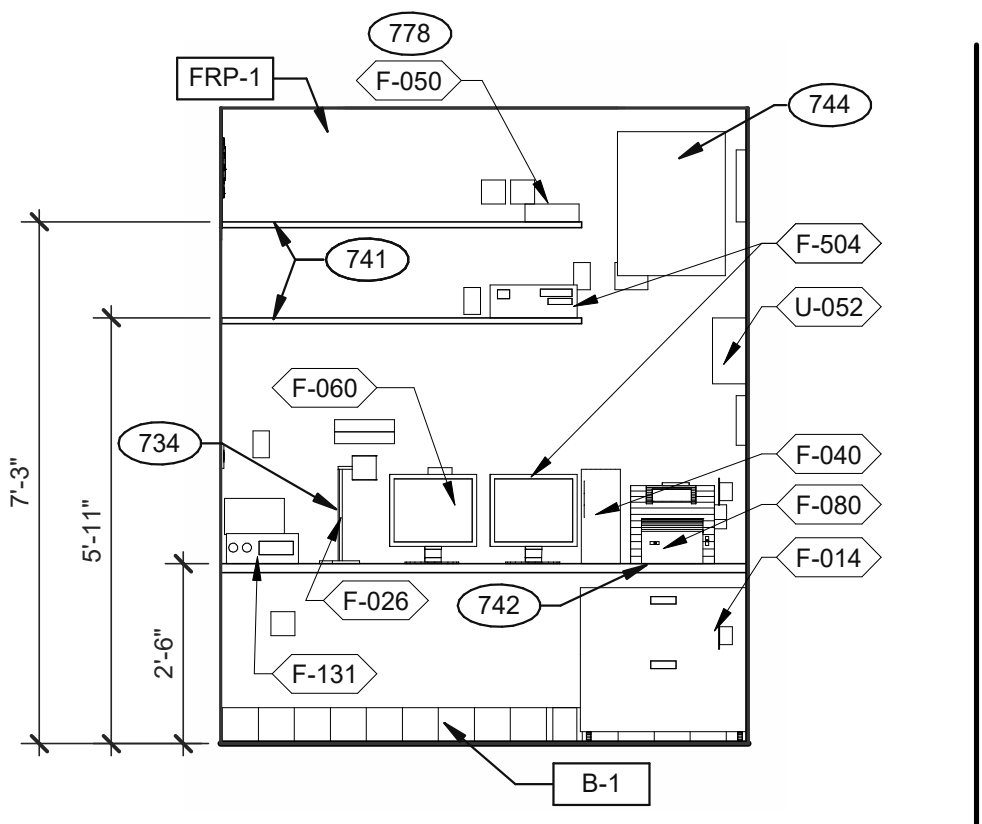
ALL DIMENSIONS THIS DRAWING ARE TO FINISH SURFACE.

* ABSOLUTE DIMENSION

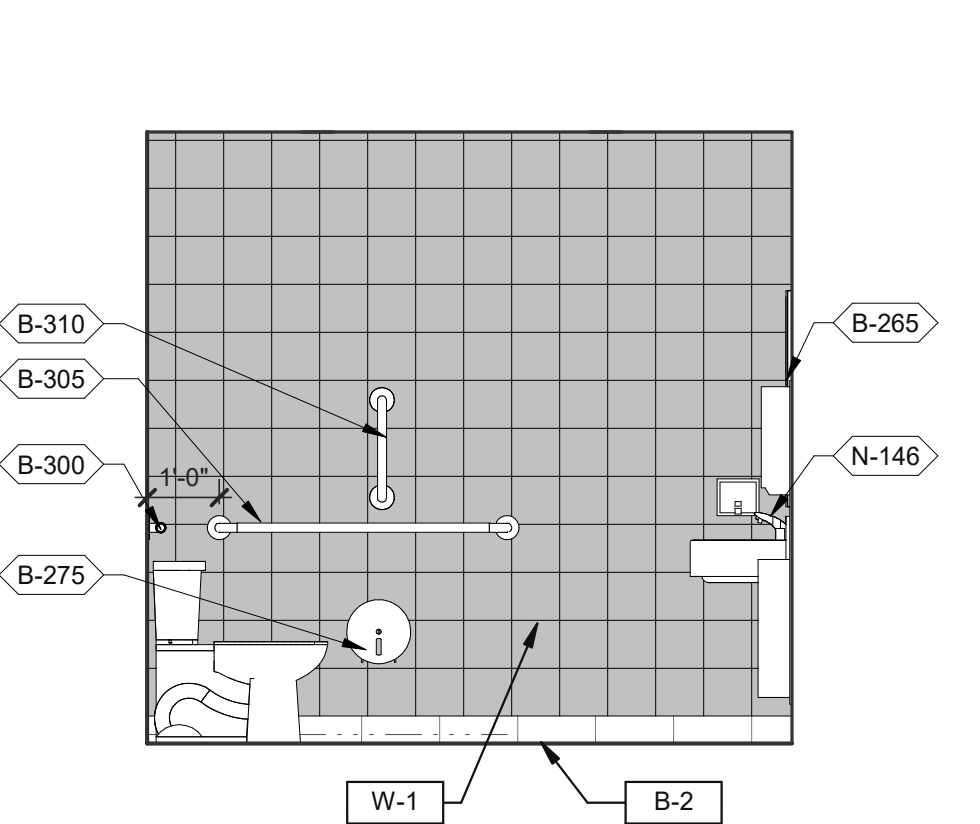
DESIGNER NOTE:
REFER TO G4.0 & G4.1
REFER TO SHEET A-2.1 FOR FIXTURE LIST.



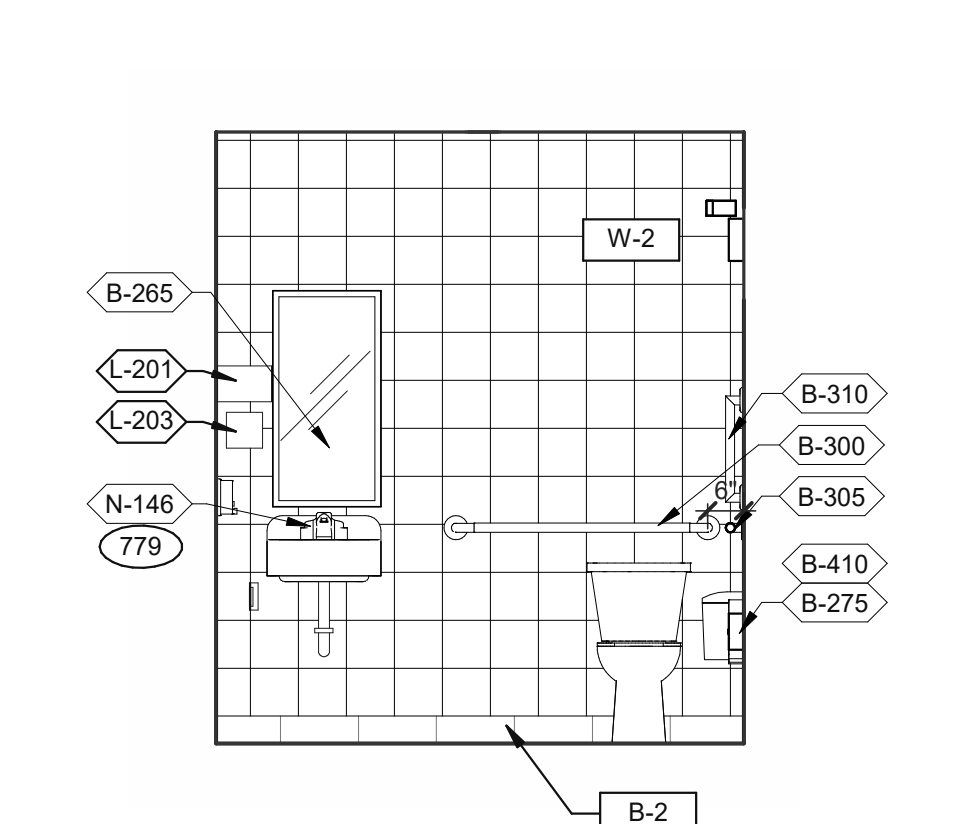
ENLARGED RESTROOM / GENERAL NOTES 3/8" = 1'-0" **A**



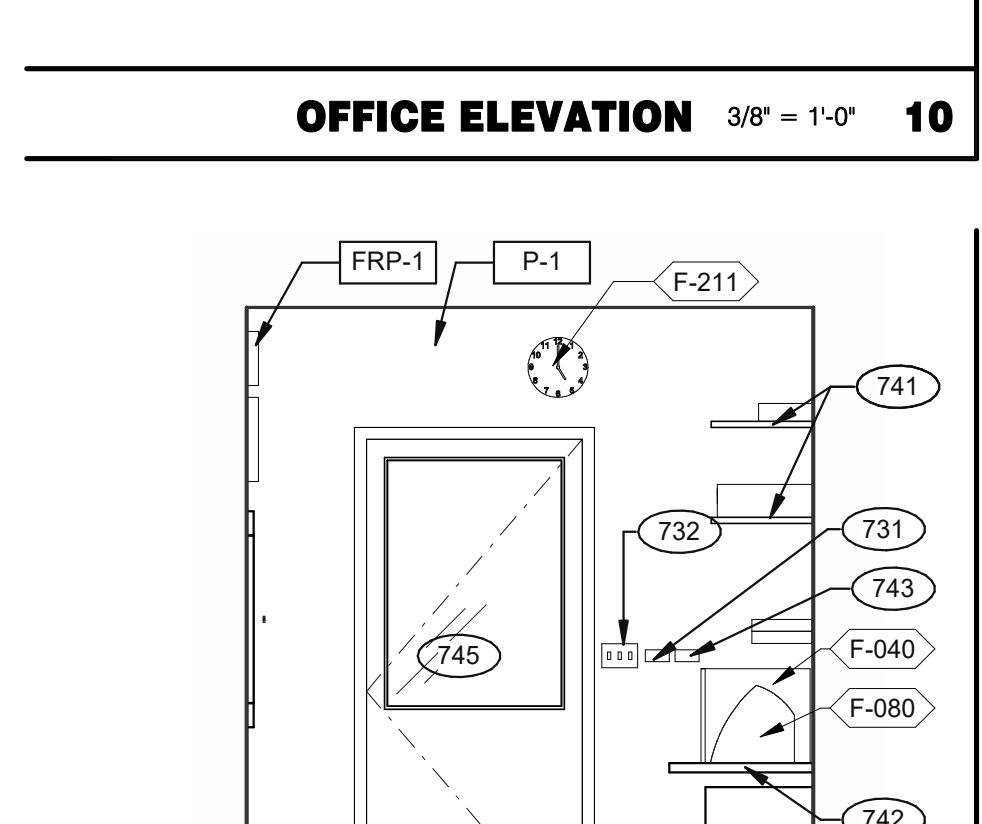
OFFICE ELEVATION 3/8" = 1'-0" **10**



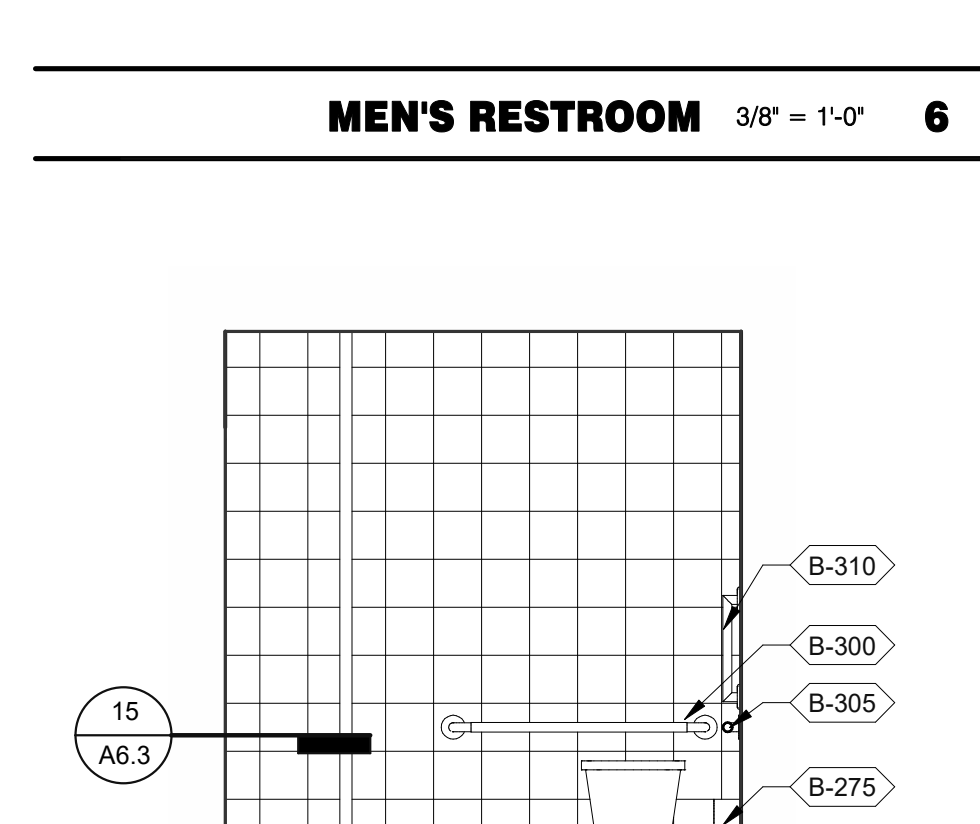
MEN'S RESTROOM 3/8" = 1'-0" **6**



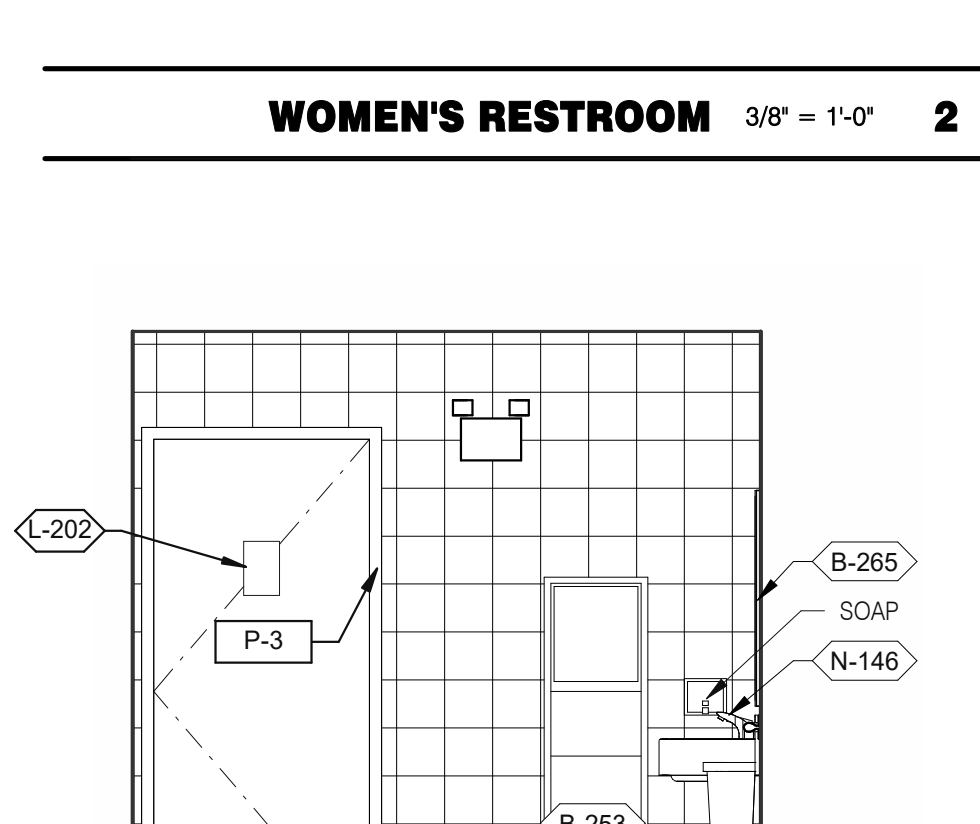
WOMEN'S RESTROOM 3/8" = 1'-0" **2**



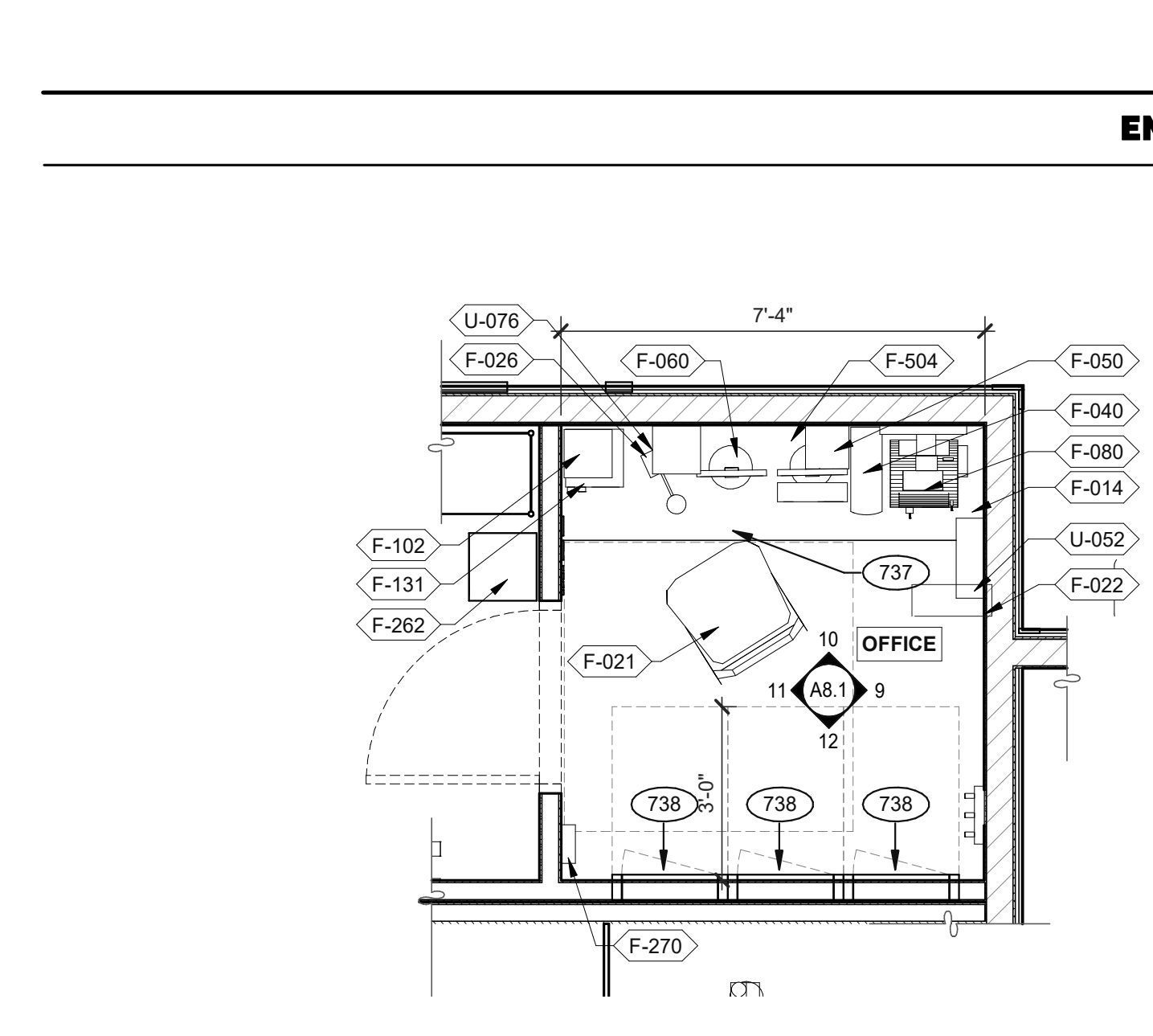
OFFICE ELEVATION 3/8" = 1'-0" **11**



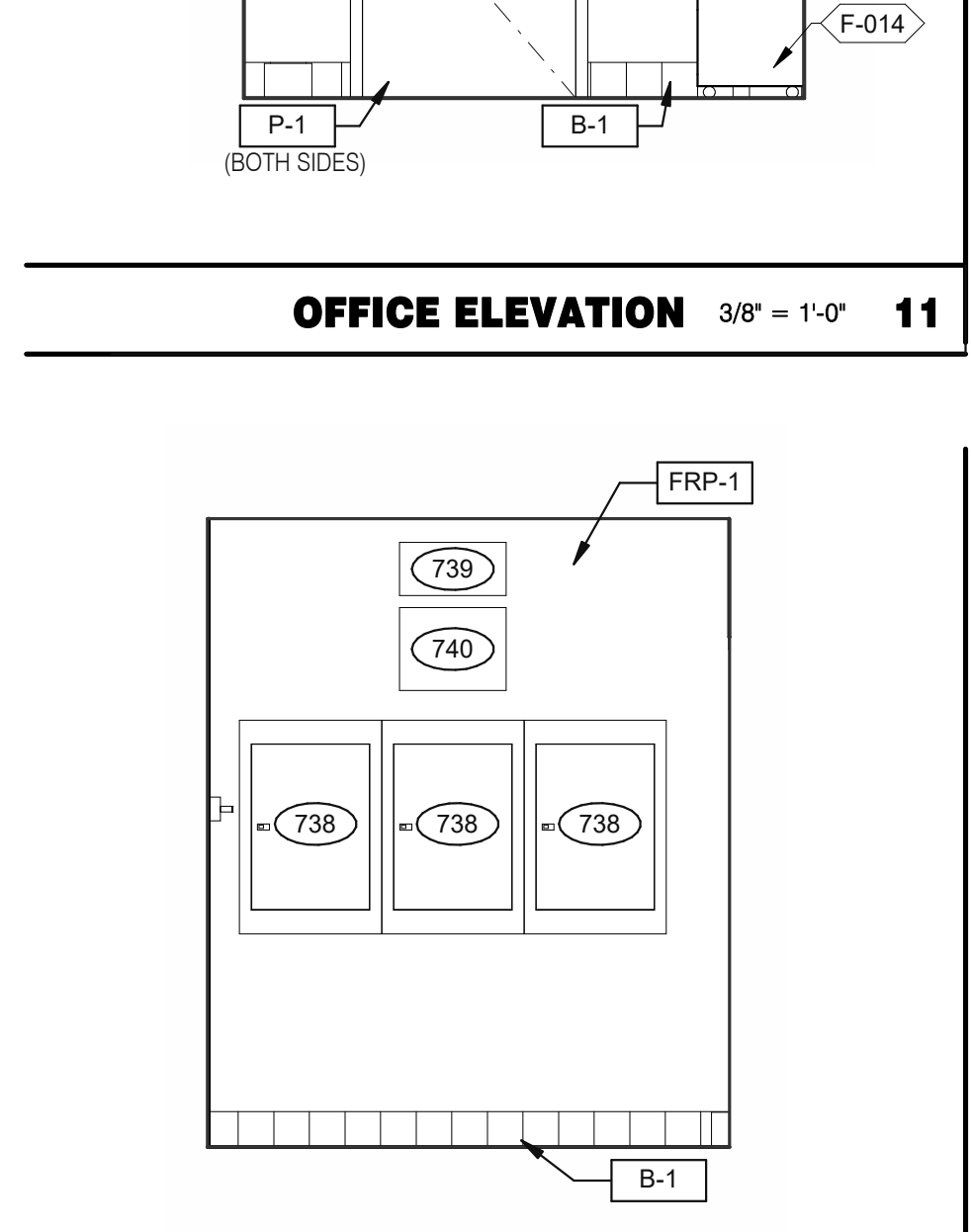
MEN'S RESTROOM 3/8" = 1'-0" **7**



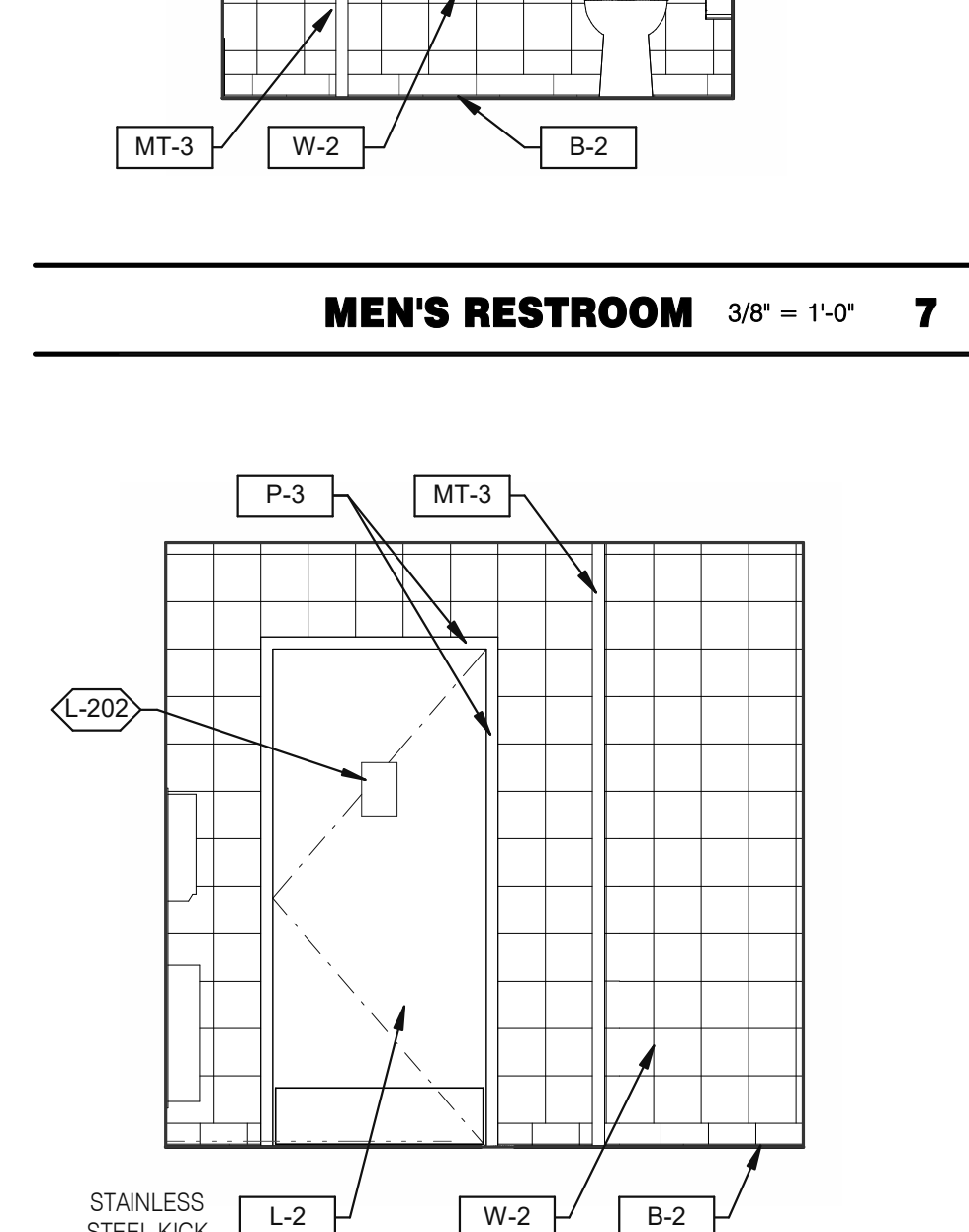
WOMEN'S RESTROOM 3/8" = 1'-0" **3**



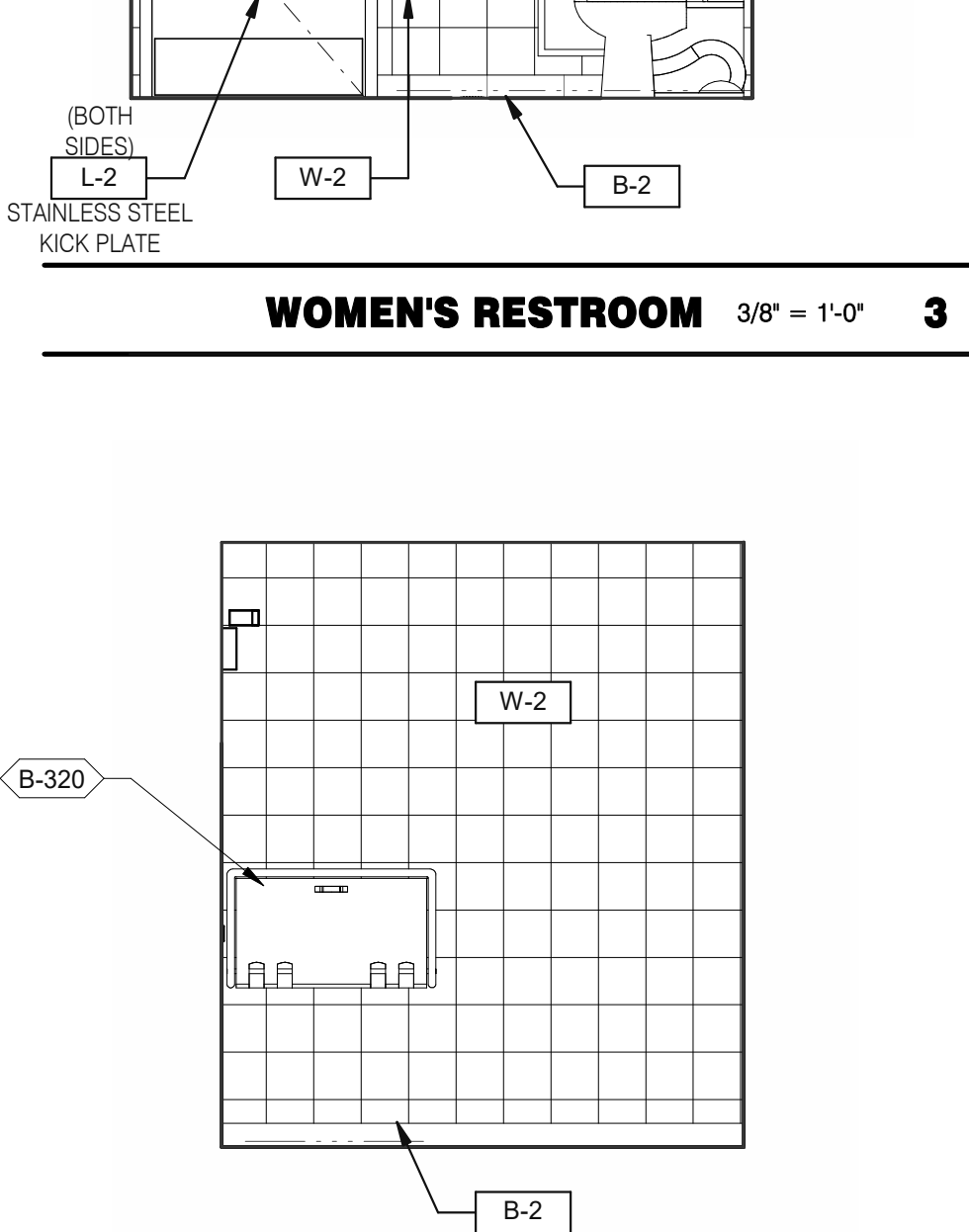
OFFICE PLAN 3/8" = 1'-0" **B**



OFFICE ELEVATION 3/8" = 1'-0" **12**



MEN'S RESTROOM 3/8" = 1'-0" **8**



WOMEN'S RESTROOM 3/8" = 1'-0" **4**

- 731 THERMOSTATS.
- 732 LIGHTING CONTROL RELAY SWITCHES. SEE DETAIL 3/E3.1.
- 734 DESK LAMP.
- 737 UNDER COUNTER KEYBOARD TRAY.
- 738 ELECTRIC PANELS.
- 739 FAN & LIGHT CONTROL BOX; REFER TO SHEET E6.0.
- 740 EXTERIOR LIGHTING CONTROL PANEL (GREEN GATE).
- 741 SHELF BY GC - FINISH WITH PLASTIC LAMINATED, L-1.
- 742 COUNTER BY GC - FINISH WITH PLASTIC LAMINATED, L-1.
- 743 DUCT SMOKE DETECTOR RESET SWITCH.
- 744 TECH-IN-A-BOX (WALL MOUNT RACK ENCLOSURE CABINETS); REFER TO SHEET E3.1. GC TO PROVIDE BLOCKING WHERE REQUIRED.
- 745 DOOR IS OPTIONAL.
- 778 PROVIDE POWER FOR F-050.
- 779 PROVIDE POWER FOR N-146.

KEYNOTES **C**

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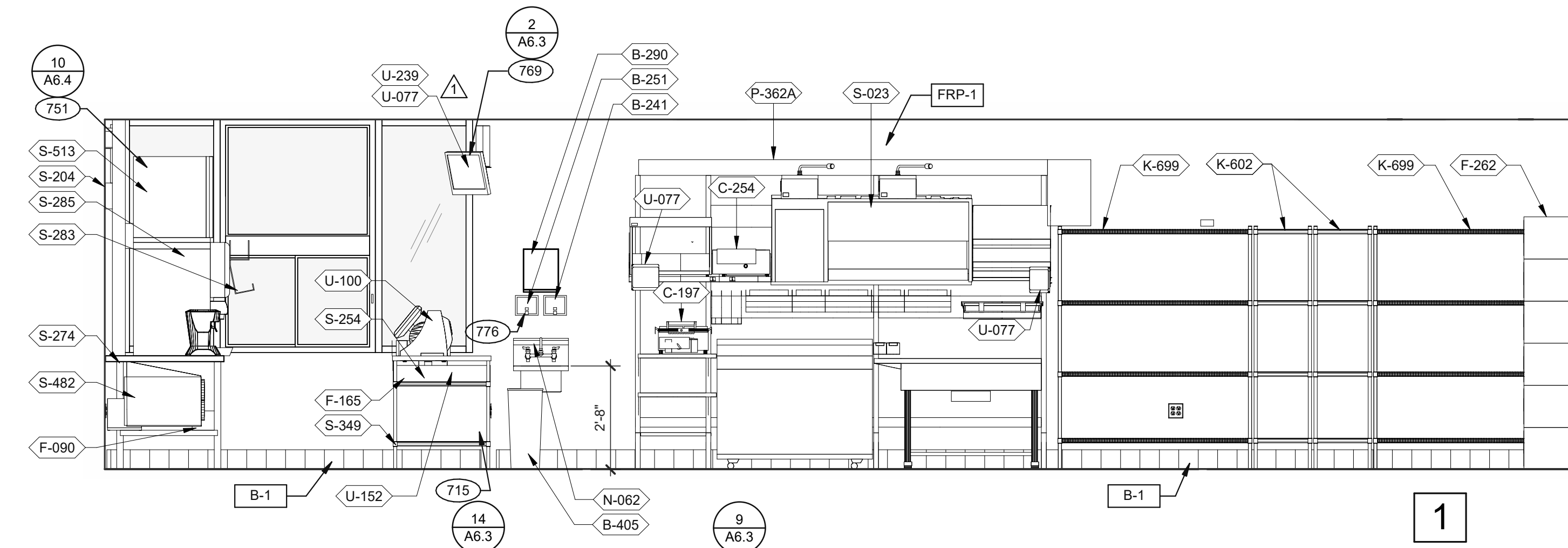
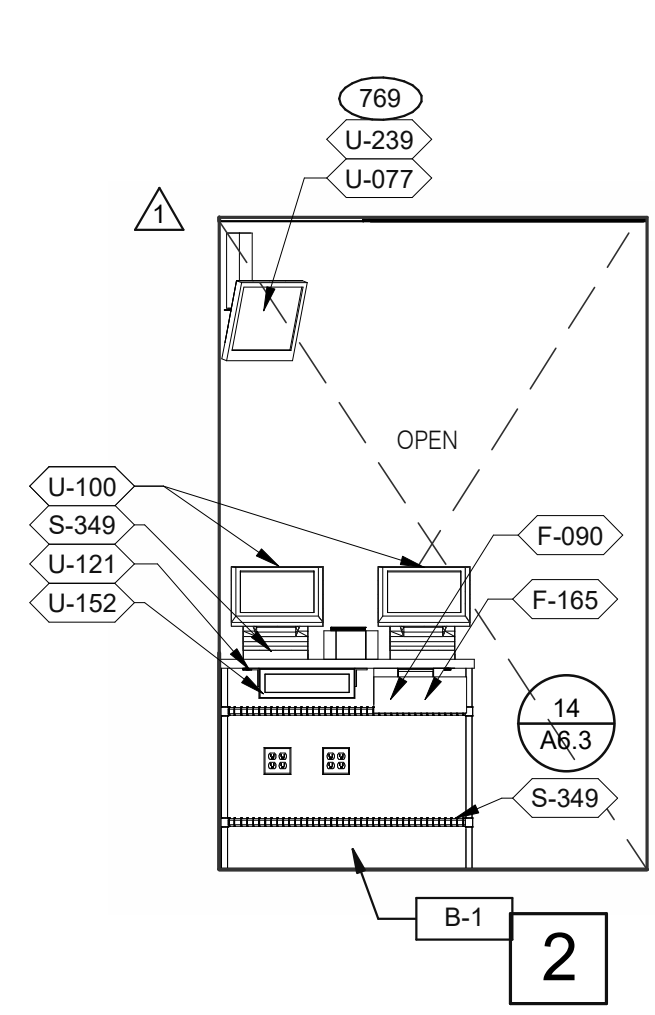
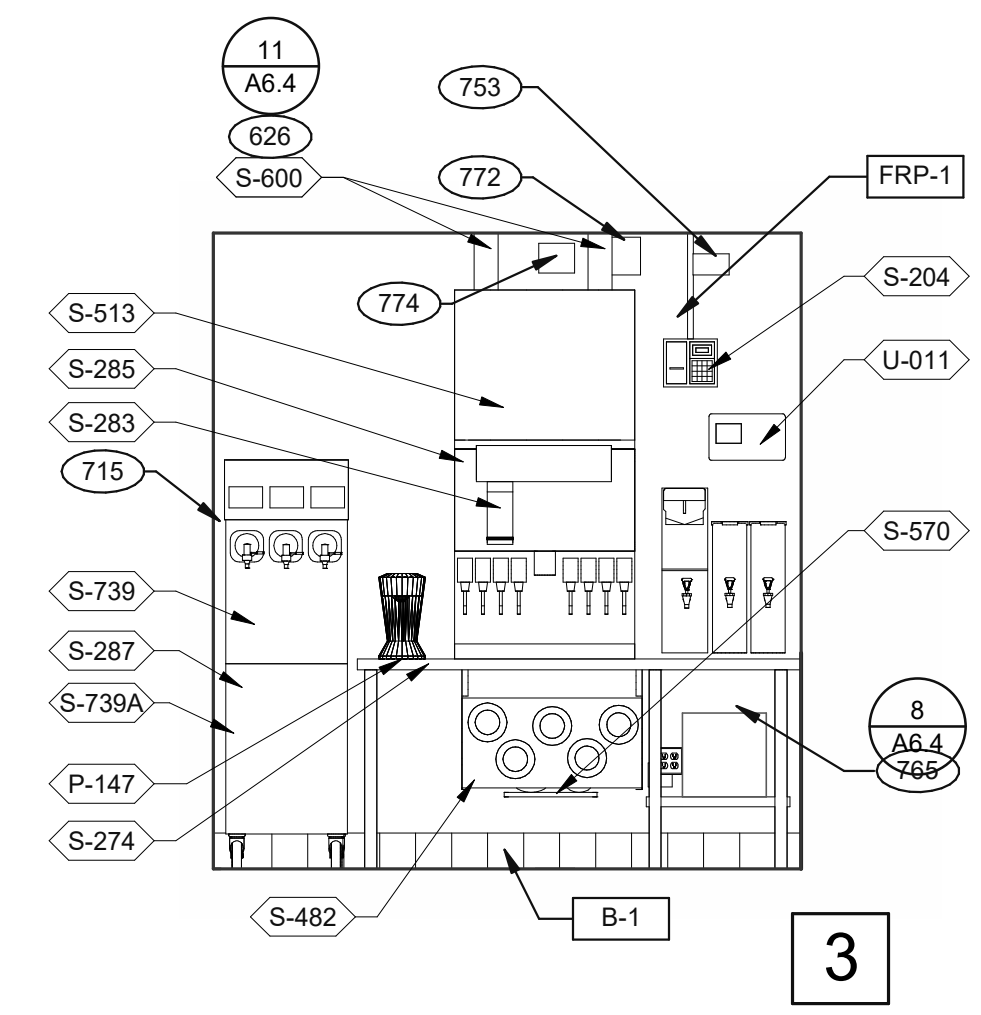
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BROWNSTOWN, MI 48183



**ENDEAVOR 2.0
INTERIOR ELEV.
ENLARGED
RESTROOMS &
OFFICE PLAN**

A8.1

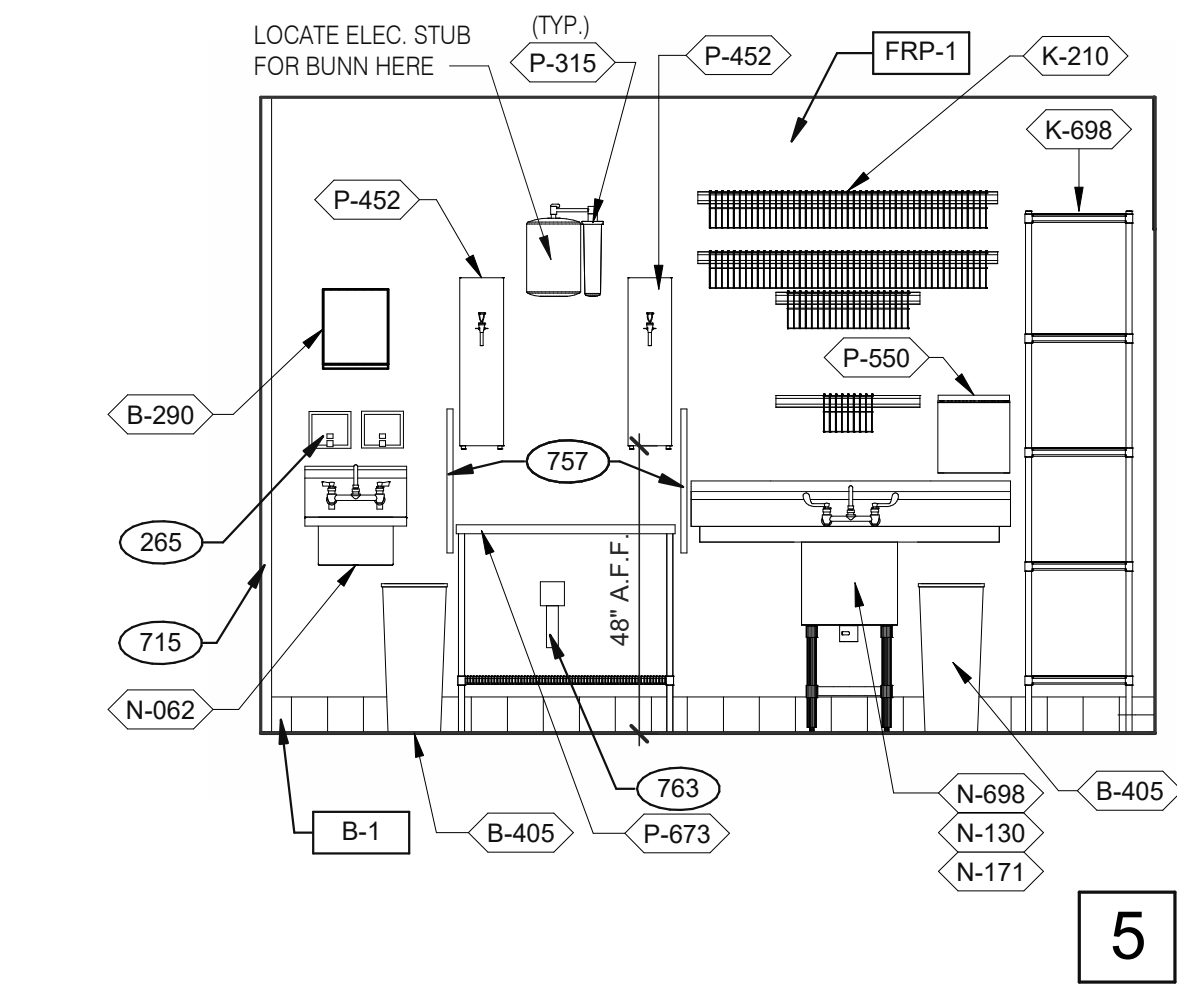
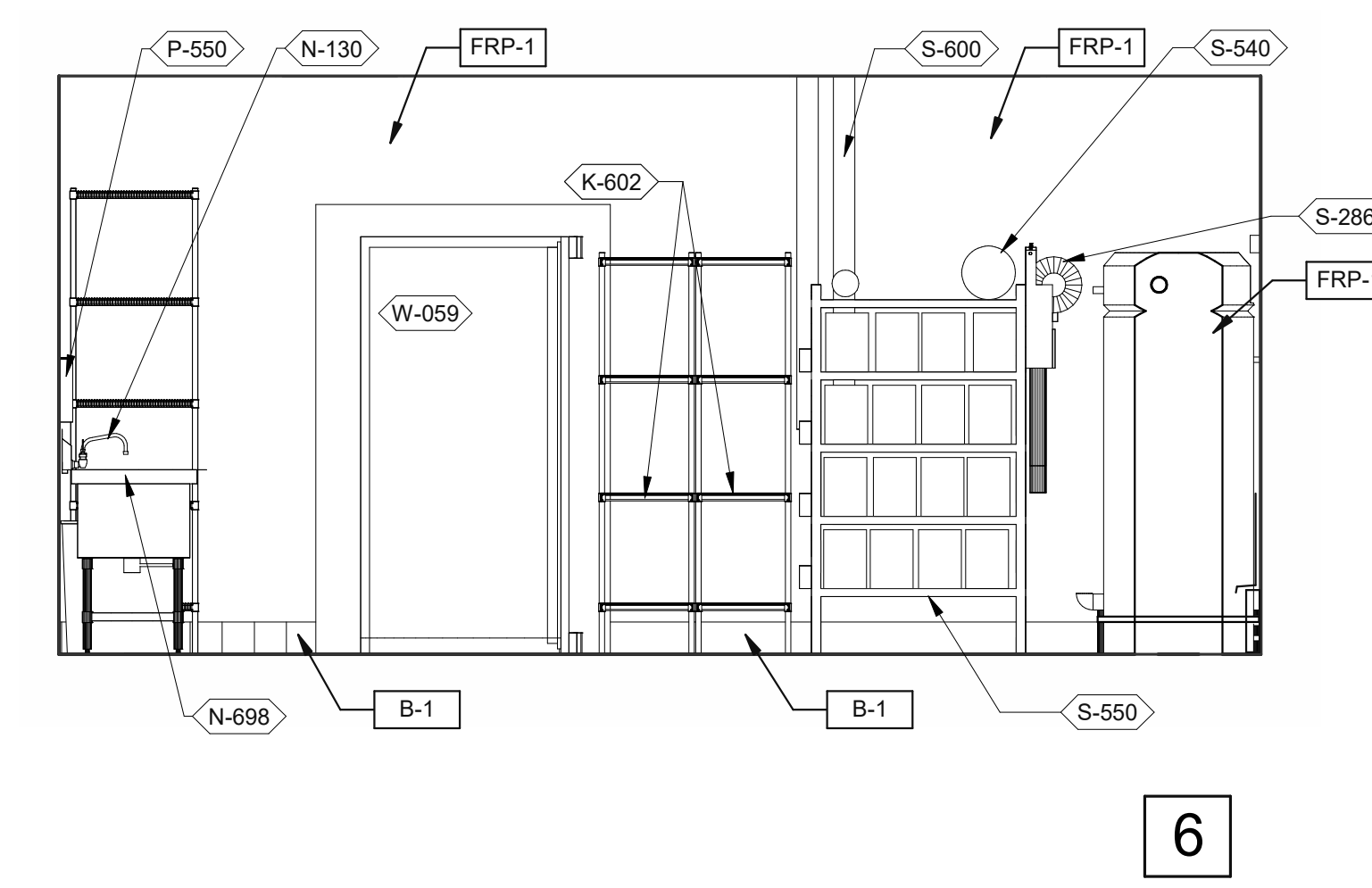
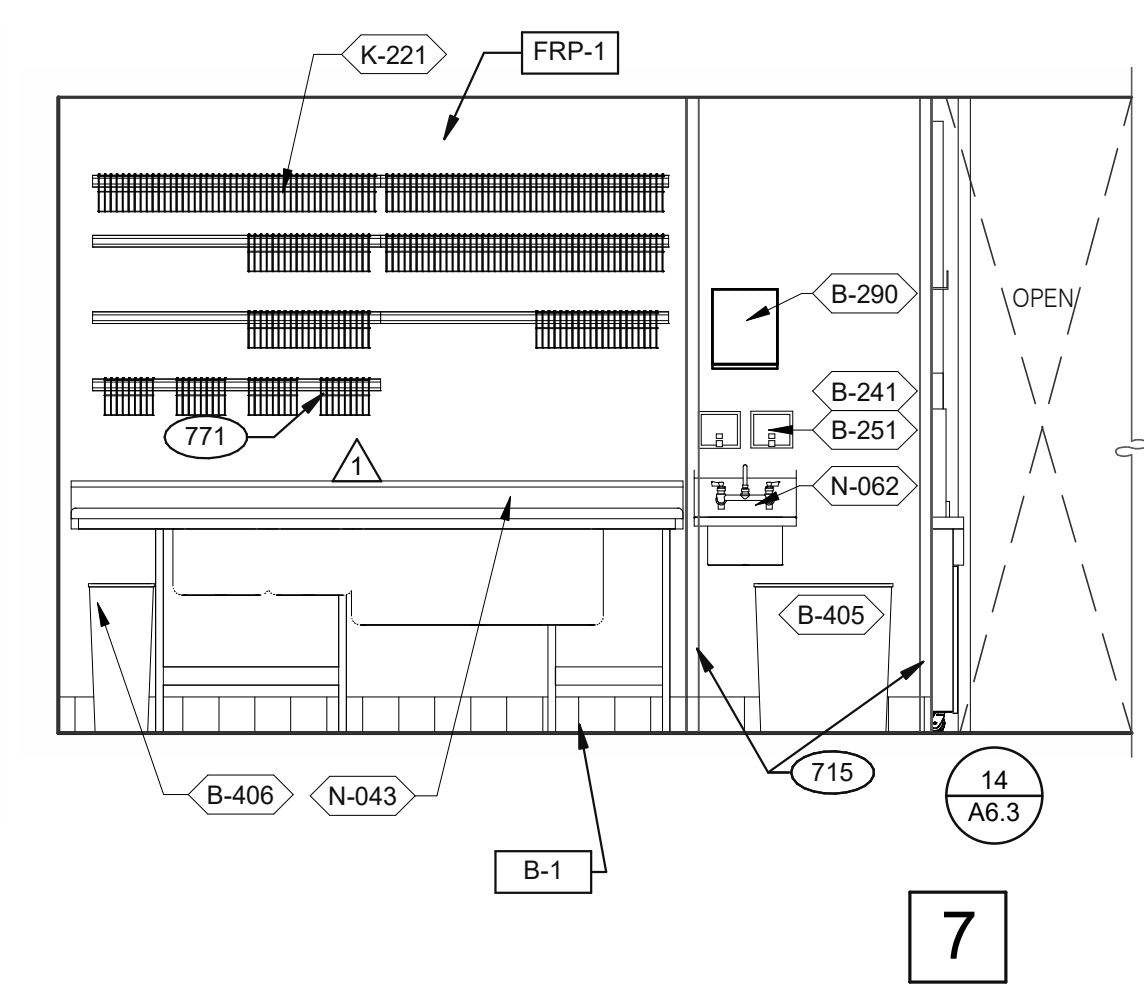
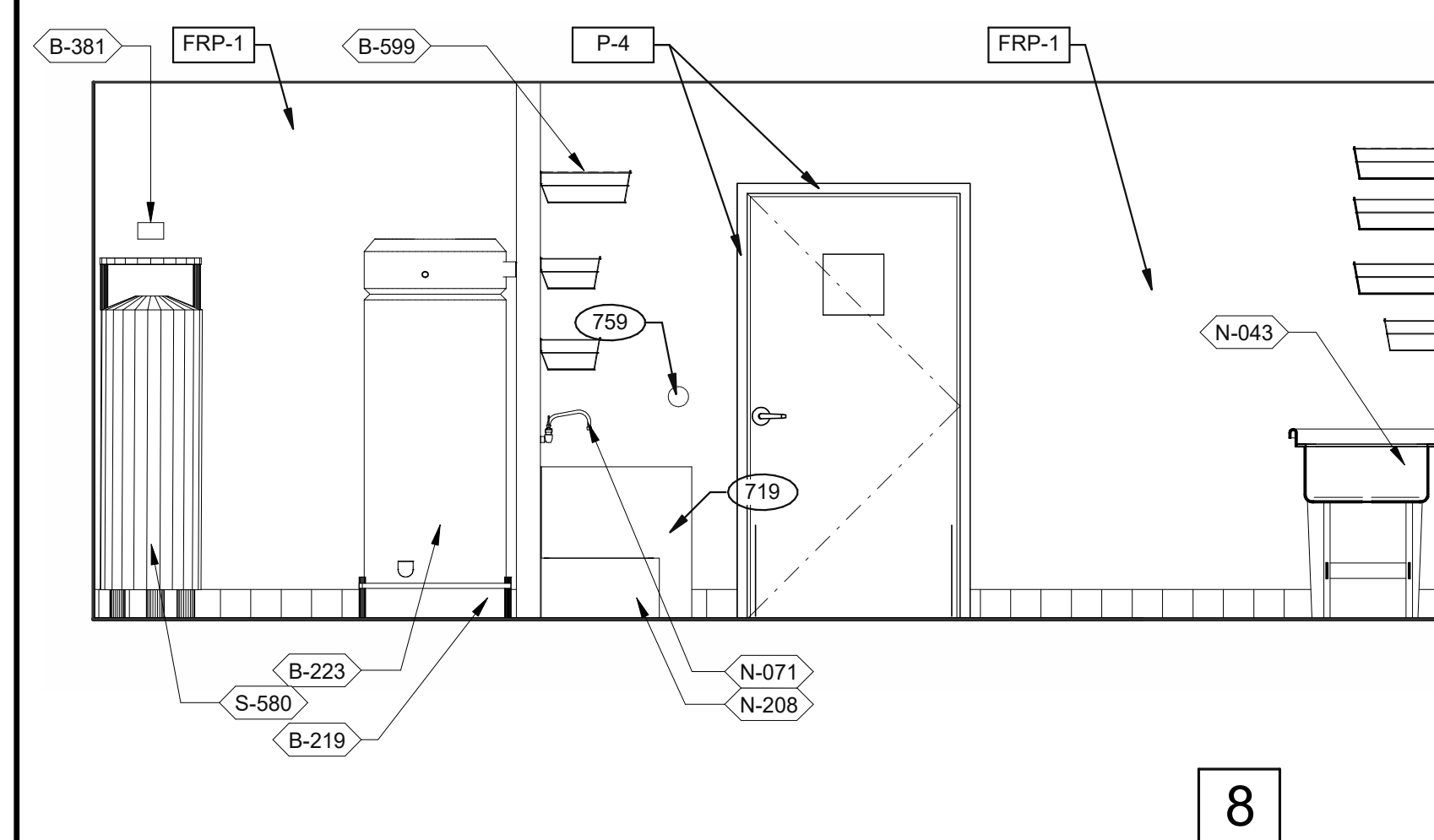
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DRIVE-THRU 3/8" = 1'-0"

DRIVE-THRU 3/8" = 1'-0"

DRIVE-THRU AND TB COOK 3/8" = 1'-0"

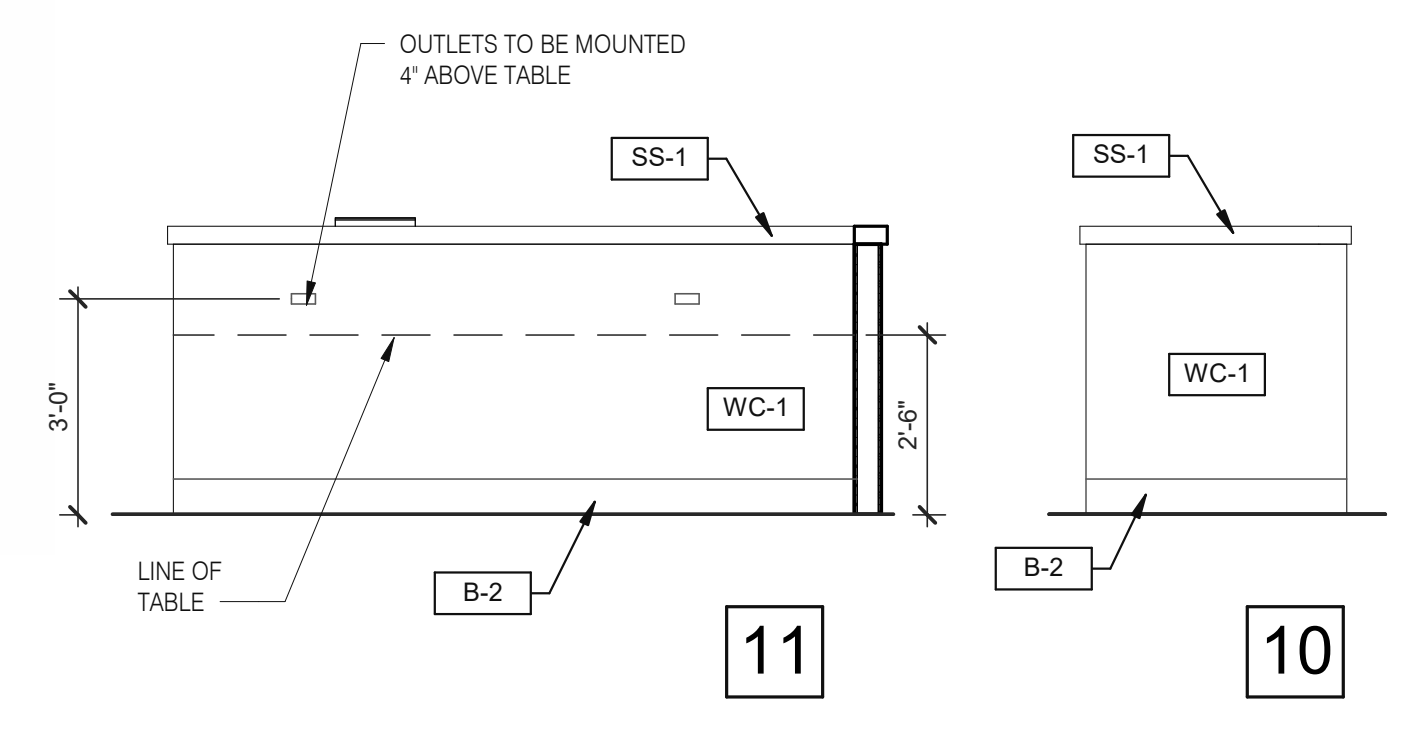
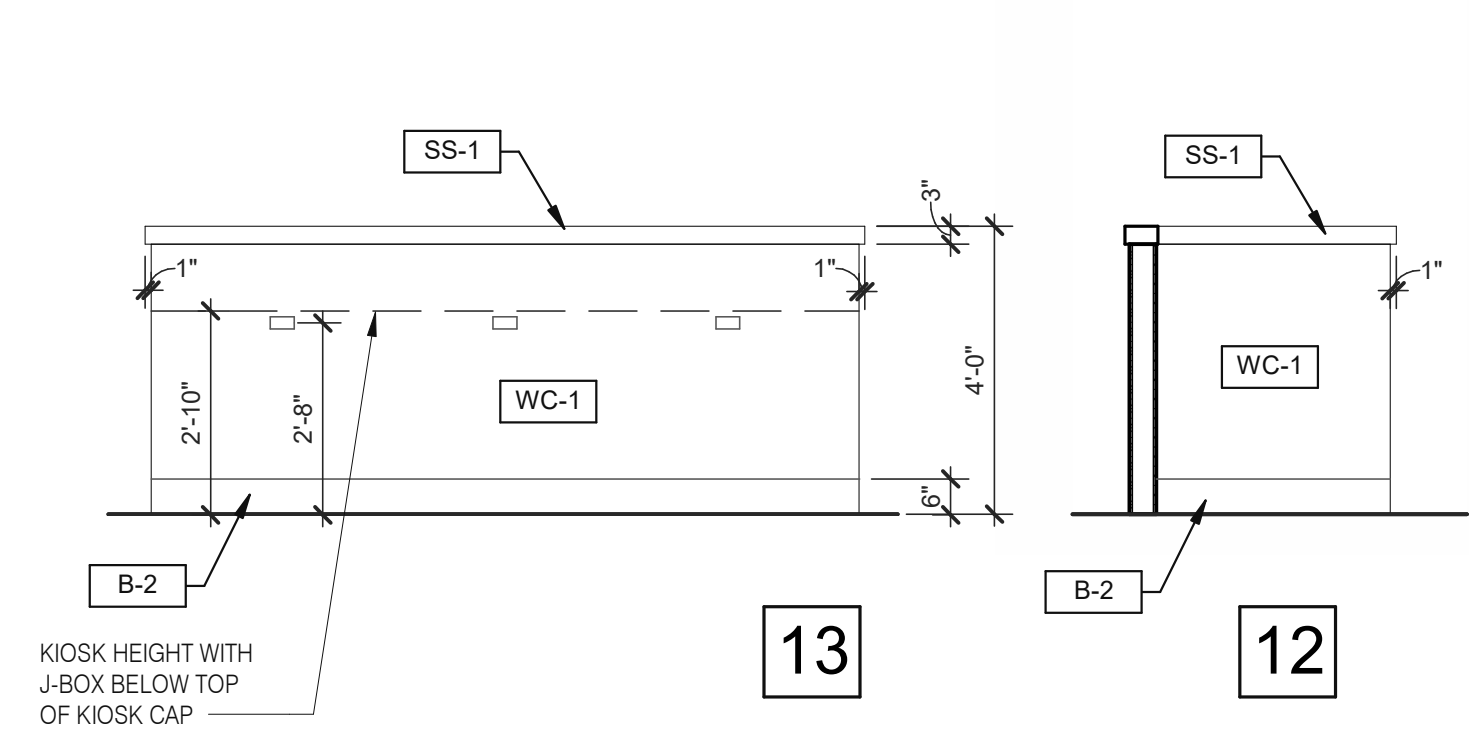


UTILITY 3/8" = 1'-0"

WARE WASHING 3/8" = 1'-0"

UTILITY 3/8" = 1'-0"

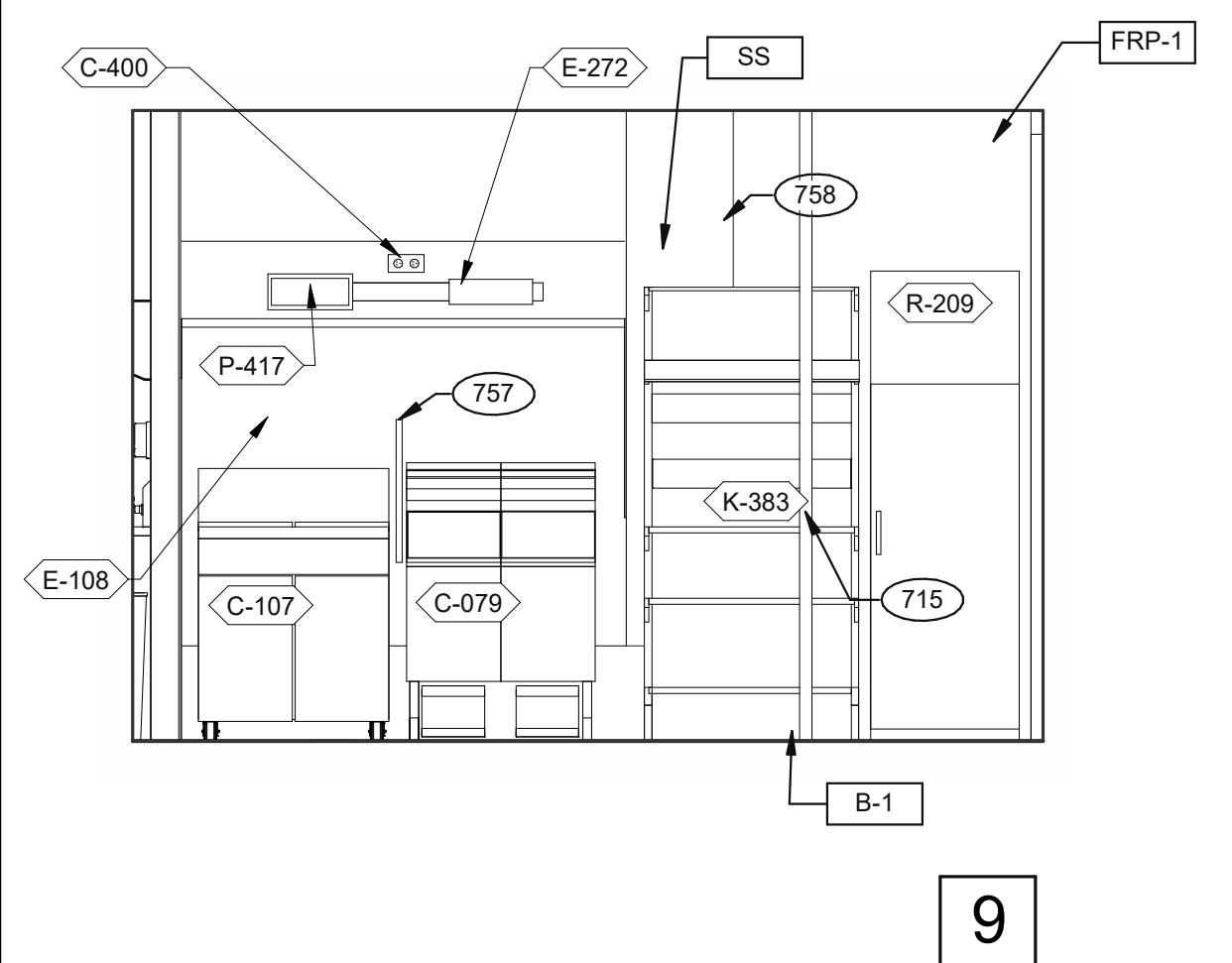
WARE WASHING 3/8" = 1'-0"



KIOSK HEIGHT WITH J-BOX BELOW TOP OF KIOSK CAP

OUTLETS TO BE MOUNTED 4' ABOVE TABLE

DINING PANEL ELEVATION 3/8" = 1'-0"



COOK LINE 3/8" = 1'-0"

- KEY NOTES**
- 265 AUTOMATIC HAND SOAP AND SANITIZER DISPENSERS PROVIDED BY ECOLAB.
 - 626 STAINLESS STEEL SYRUP CHASE ON WALL. SEE DETAIL 11/A6.4.
 - 715 SS CORNER/END WALL CHANNEL GUARD, FULL HEIGHT. SEE DETAIL 14/A6.3 AND
 - 719 STAINLESS STEEL CLOSURE WITH FLASHING AND END CAP.
 - 751 STAINLESS STEEL CHASE FOR SYRUP LINES & ICE MACHINE REFRIGERANT LINES.
 - 753 DRIVE-THRU TIMER DISPLAY UNIT.
 - 757 SPLASHGUARD. SEE DETAIL 9/A6.3.
 - 758 EDGE OF SS PANEL BEHIND HOOD.
 - 759 ANSUL PULL STATION.
 - 763 FILTER FOR HOT WATER SYSTEM.
 - 765 OPENING FINISHED WITH FRP FOR SYRUP TUBES. SEE DETAIL.
 - 769 CEILING MOUNT MONITOR BRACKET.
 - 771 CUT WALL-HANGING TRACK TO ALLOW SPACE FOR CLICK & CLEAN SYSTEM.
 - 772 DT TIMER SIGNAL PROCESSOR.
 - 774 DT TIMER ETHERNET SWITCH.
 - 776 AUTOMATIC HAND SOAP AND SANITIZER DISPENSER BY ECO-LAB.

KEY NOTES

DATE	REMARKS
07.21.21	Issued for Permit
09.17.21	Health Comments
03.11.22	Issued for Construction

CONTRACT DATE: 06.22.21
BUILDING TYPE: END, MED20
PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 315089
STORE NUMBER: 40164
PA/PM: SM
DRAWN BY.: RS
JOB NO.: 2019088.31

TACO BELL

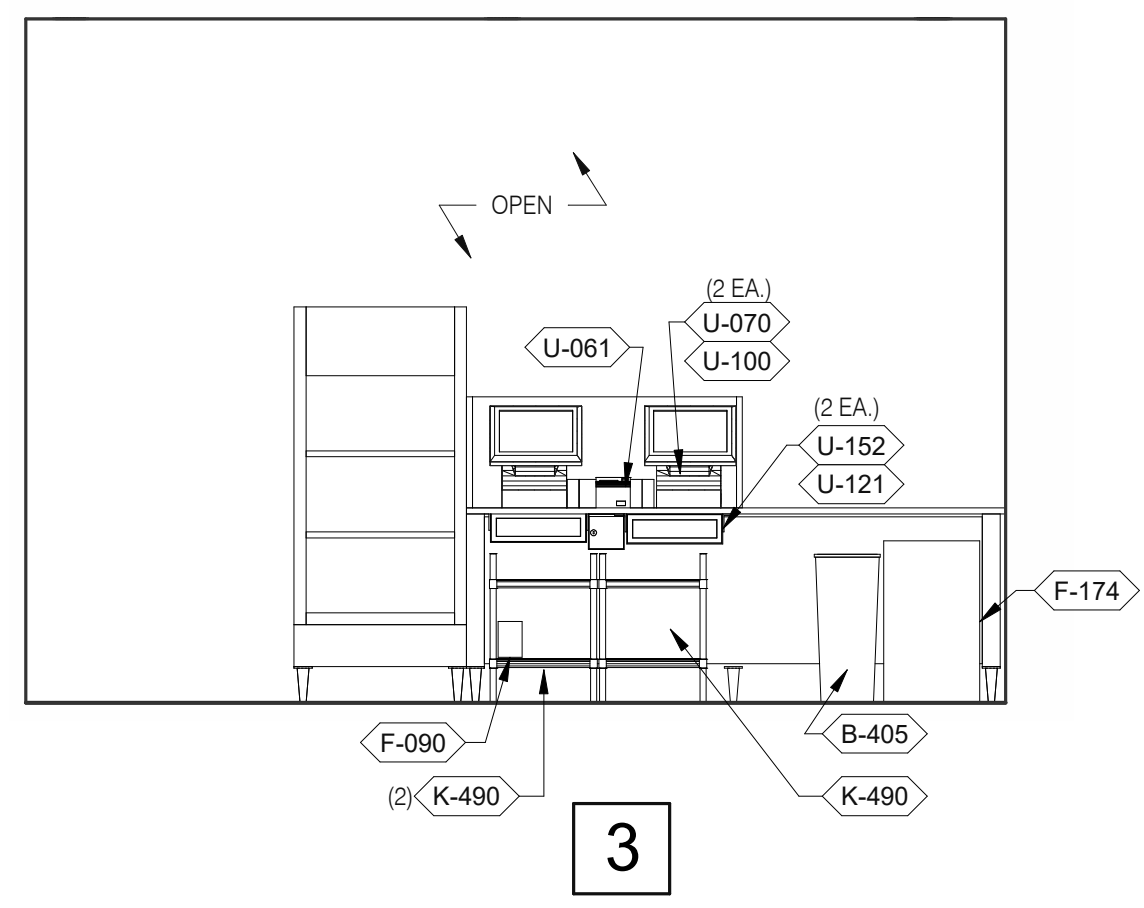
18708 TELEGRAPH ROAD
BROWNSTOWN, MI 48183



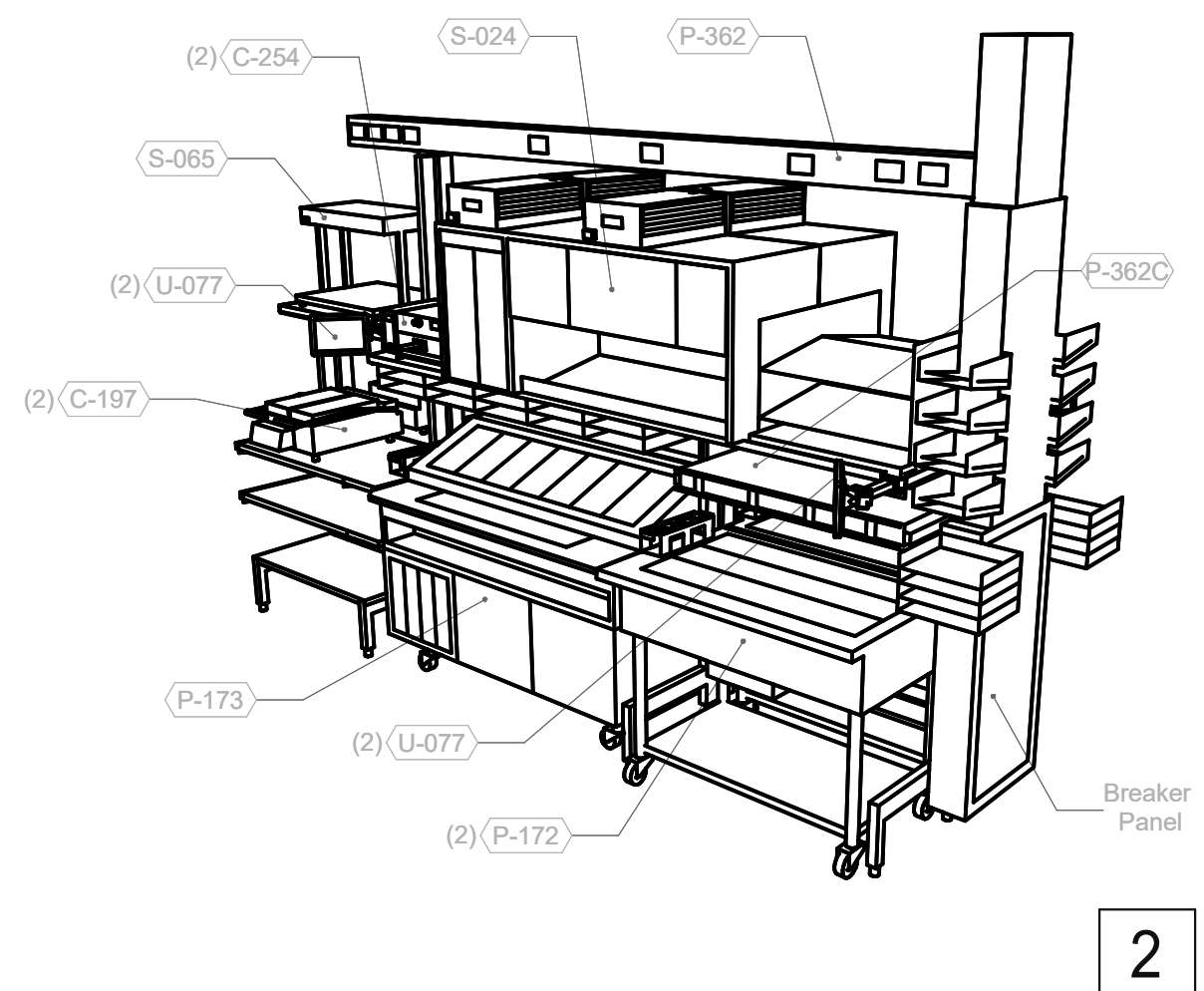
**ENDEAVOR 2.0
INTERIOR
ELEVATIONS
KITCHEN**

A8.2

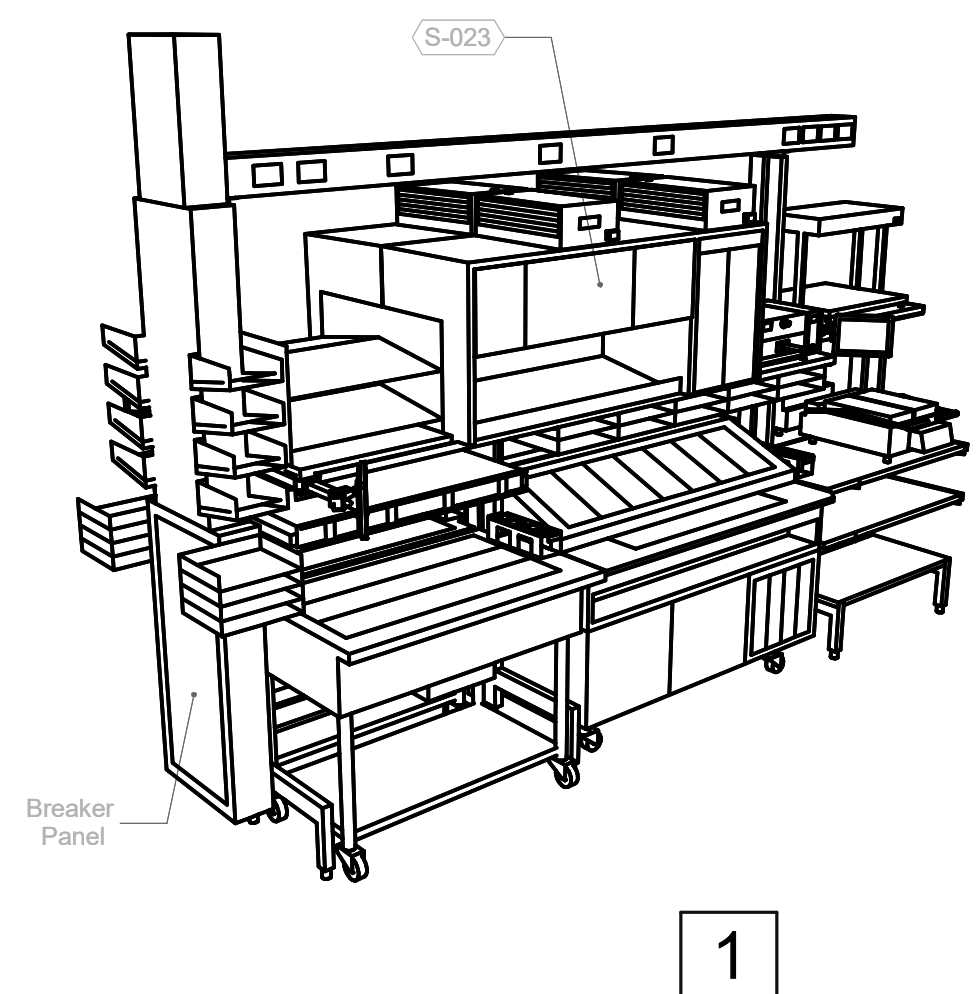
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SERVING 3/8" = 1'-0"

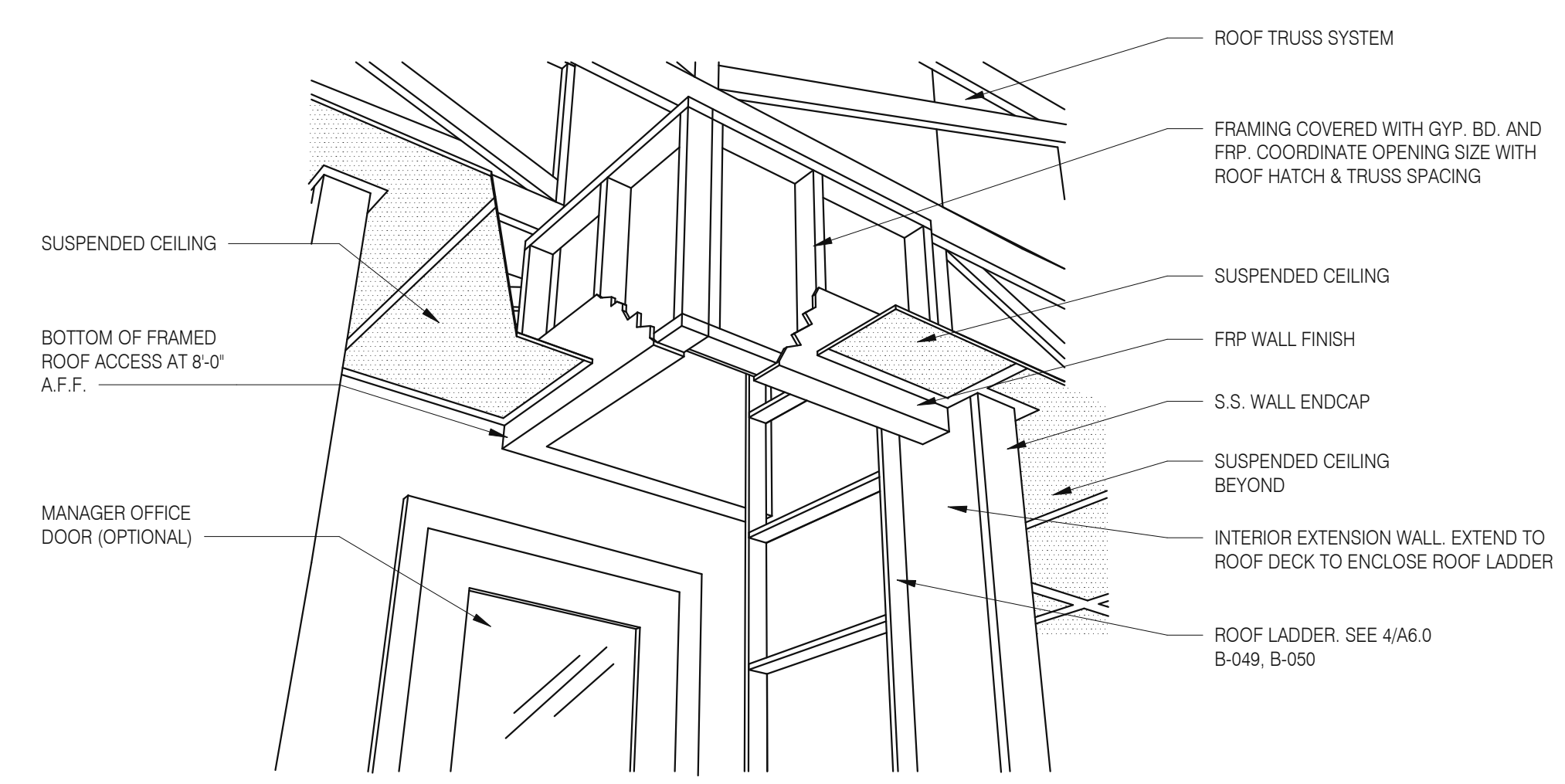


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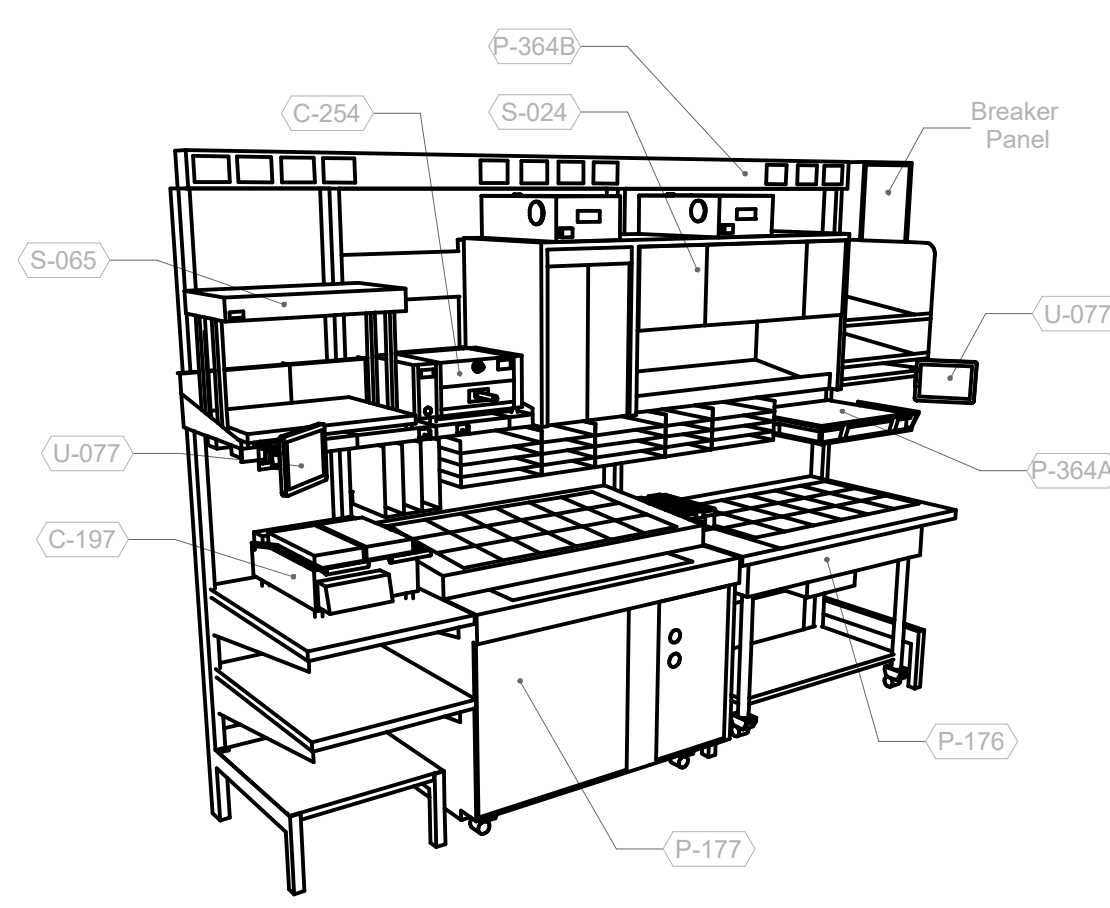


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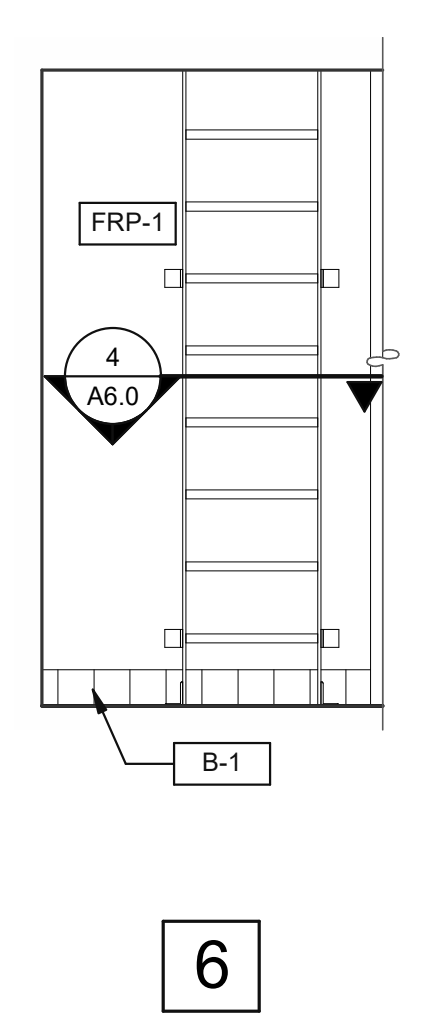
P-362B FLEX DUAL-LINE 3/8" = 1'-0"



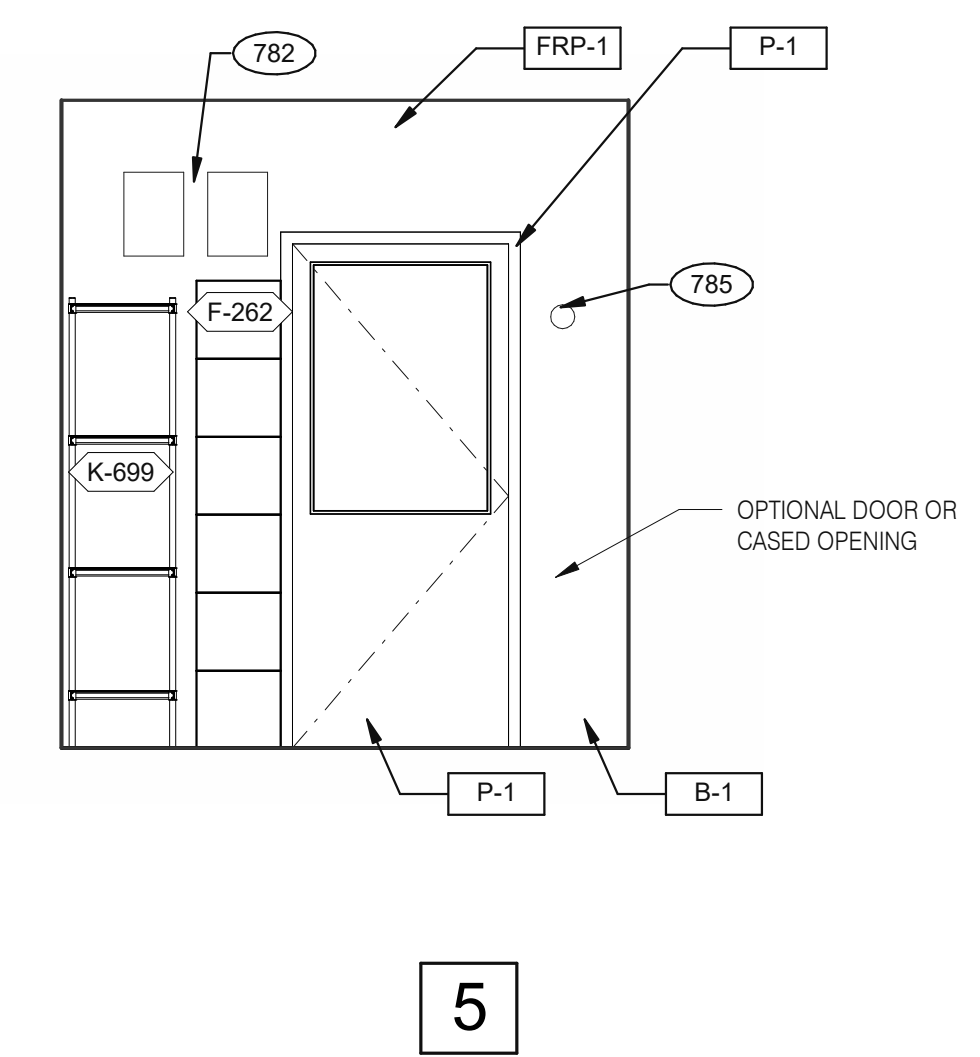
A - ROOF LADDER VIEW



P-362A FLEX I-LINE, L-R N.T.S. **7**



6



5

EMPLOYEE / STORAGE 3/8" = 1'-0"

DATE	REMARKS
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03.11.22	Issued for Construction

CONTRACT DATE: 06.22.21
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PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 315089
STORE NUMBER: 40164
PA/PM: SM
DRAWN BY.: RS
JOB NO.: 2019088.31

TACO BELL

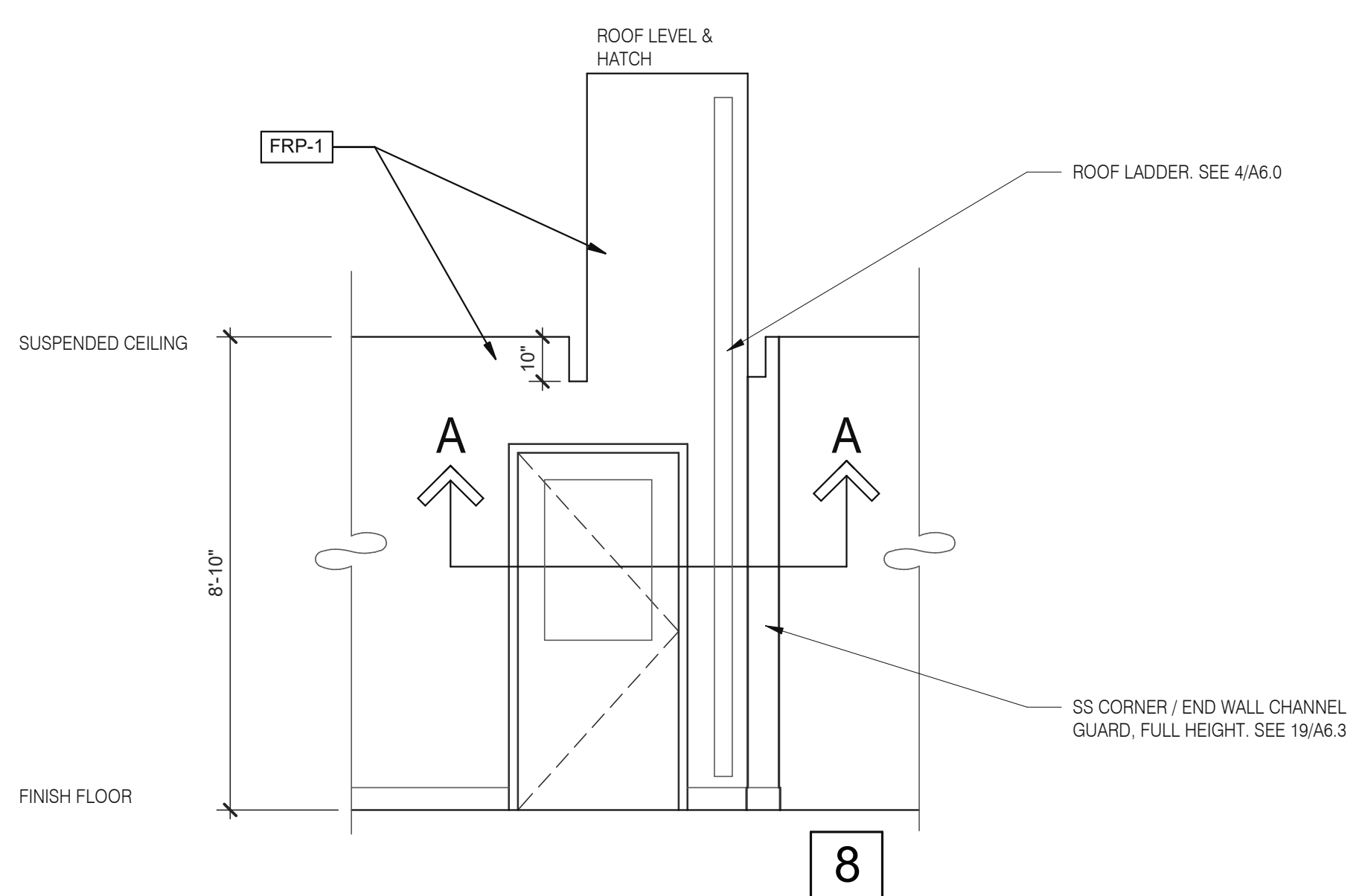
18708 TELEGRAPH ROAD
BROWNSTOWN, MI 48183



**ENDEAVOR 2.0
INTERIOR
ELEVATIONS
KITCHEN**

A8.3

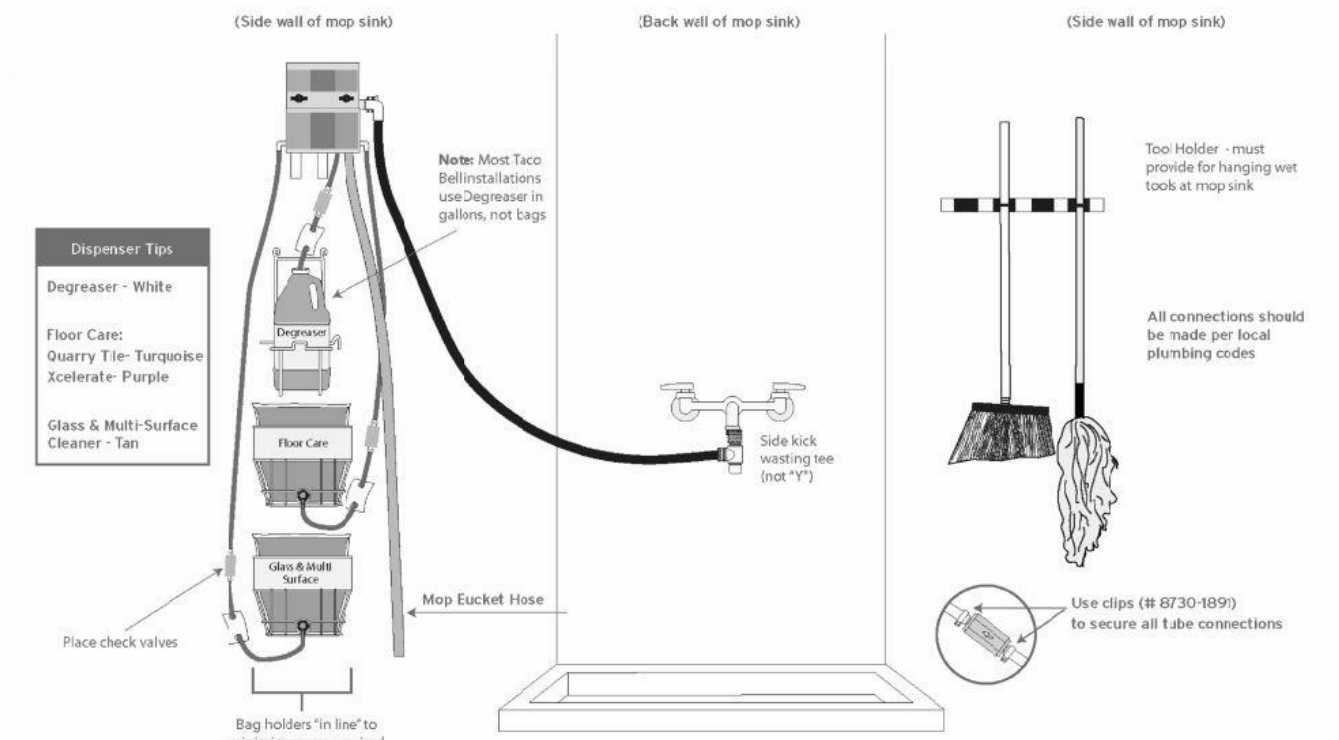
PLOT DATE: 3/9/2022 10:28:36 AM



8

ROOF ACCES PASSAGEWAY 3/8" = 1'-0" **B**

Taco Bell Mop Sink Installation

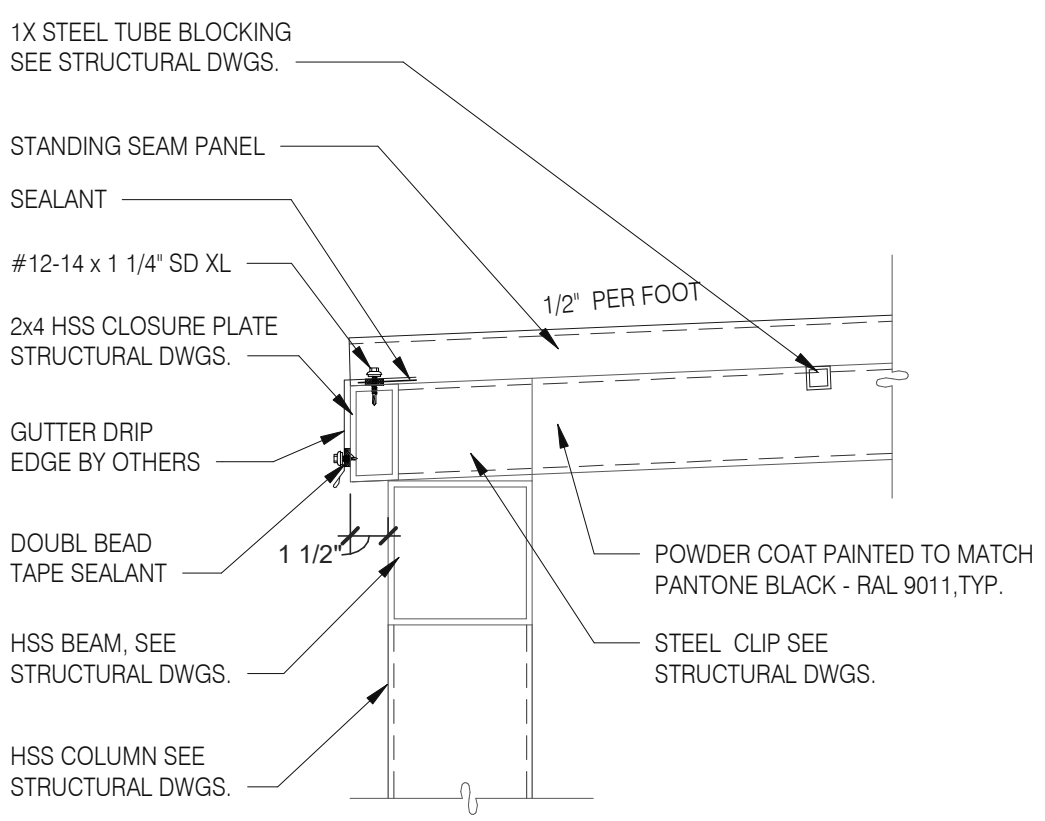


INSTALL IN ACCORDANCE WITH STATE AND LOCAL PLUMBING CODES.
In states or municipalities requiring dedicated or hard plumbed water lines, the dispensing unit at the 3-compartment sink must be connected to a "TEMPERED" water source. This may require the installation of a mixing/tempering valve.
ECOLAB Key Chemical Company
8300 Capital Drive
Greensboro, NC 27439-9790, USA 800.529.5458
©2002 Key Chemical Company. All Rights Reserved.

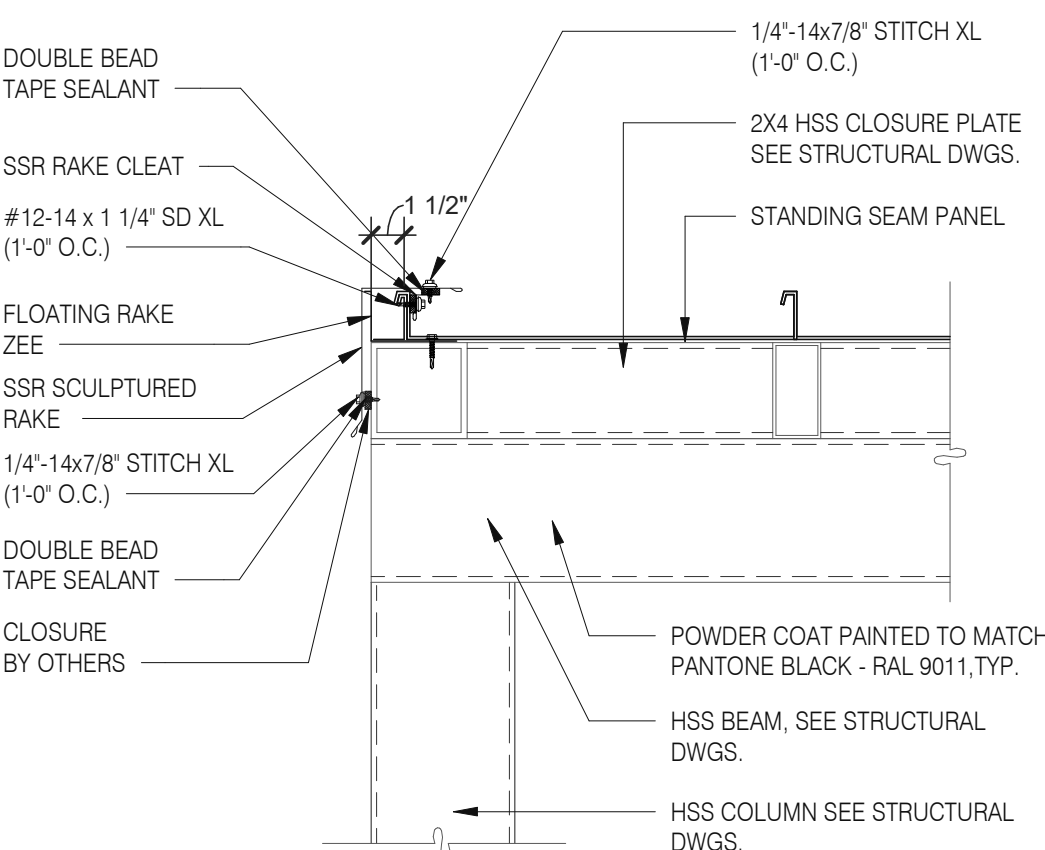
MOP SINK INSTALLATION **C**

782 FAN MOTOR STARTERS, SURFACE MOUNTED, TYP. OF 2.
785 TEMPERATURE SENSOR, SEE MECHANICAL DRAWINGS.

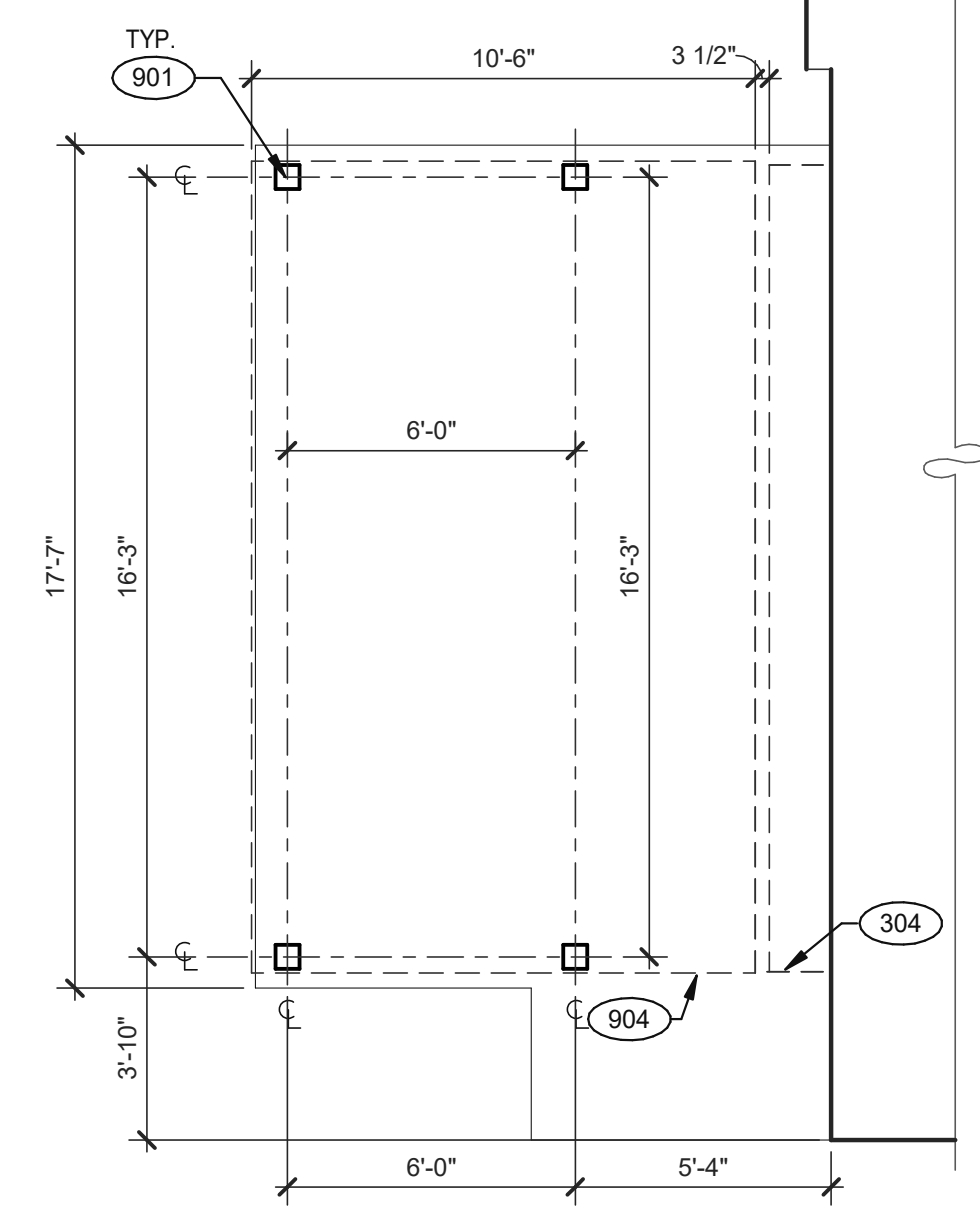
KEYNOTE **A**



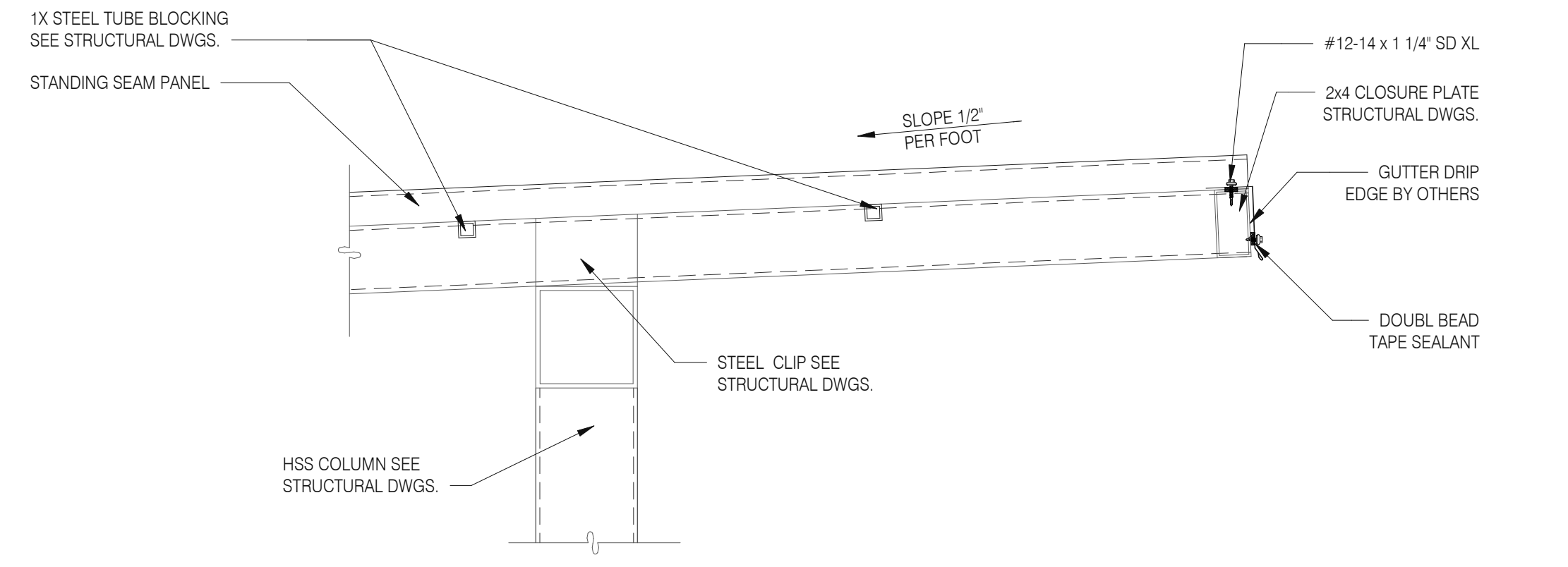
STANDING SEAM DETAIL @ FRONT 1/2" = 1'-0" **3**



STANDING SEAM DETAIL @ EDGE 1/2" = 1'-0" **4**



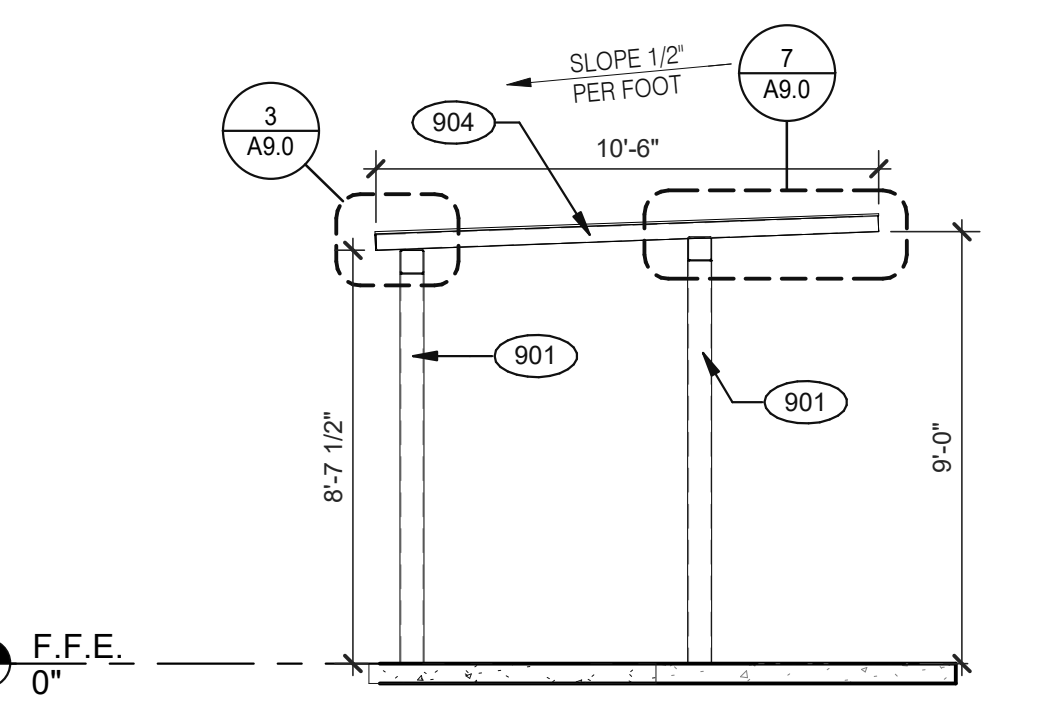
PATIO PLAN 1/4" = 1'-0" **1**



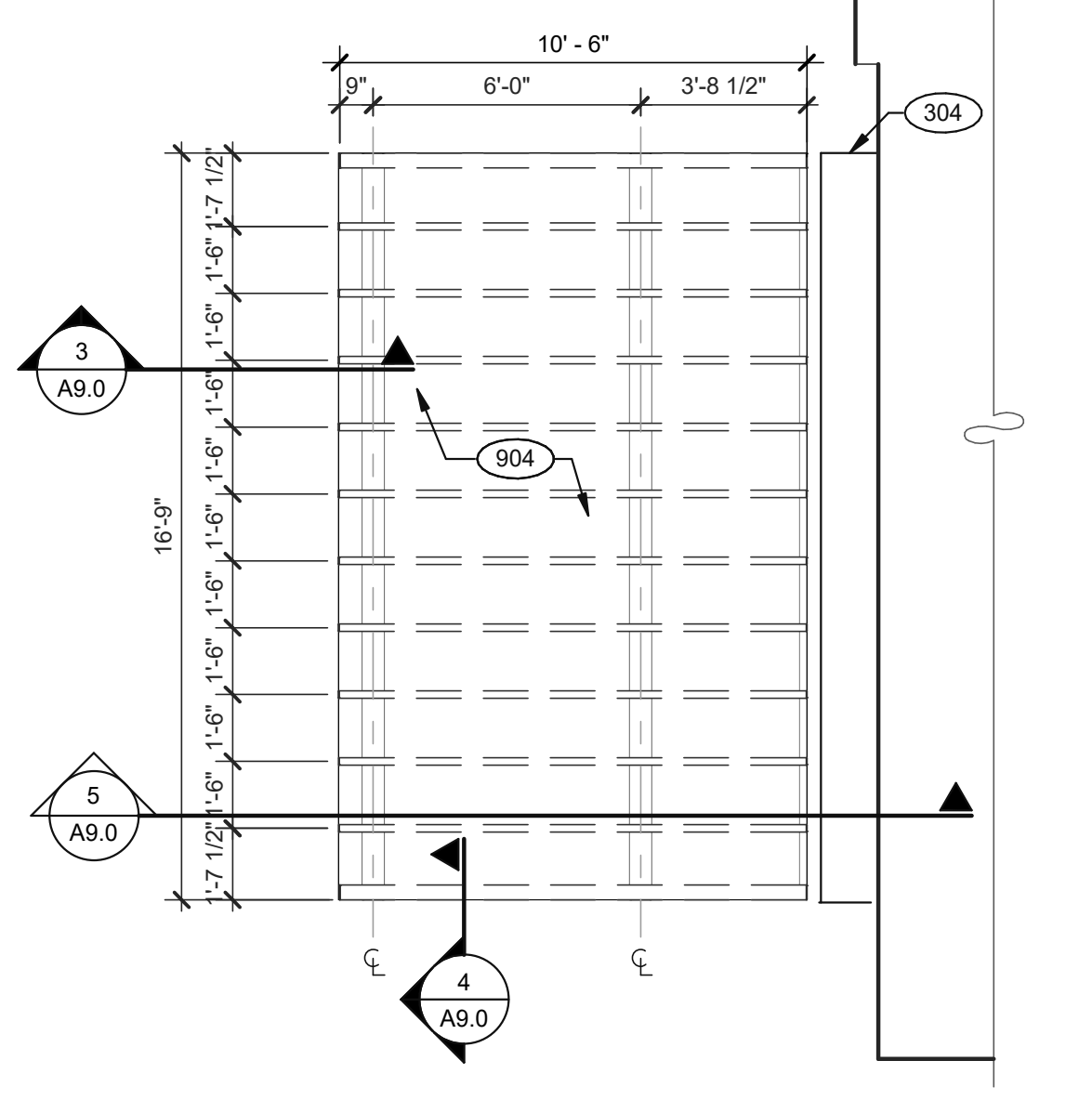
STANDING SEAM AT CANTILEVER 1/2" = 1'-0" **7**

KEYNOTES:

- 304 CANOPY, BY SIGNAGE VENDOR. SEE SCOPE OF WORK.
- 901 CANOPY COLUMN. SEE STRUCTURAL DRAWINGS.
- 904 PATIO CANOPY, PROVIDED AND INSTALLED BY G.C. SEE SHEET A9.0 FOR DETAILS.



SECTION AT PATIO CANOPY 1/4" = 1'-0" **5**



PATIO ROOF PLAN 1/4" = 1'-0" **2**

DATE	REMARKS
07.21.12	Issued for Permit
03.11.22	Issued for Construction

CONTRACT DATE: 06.22.21
BUILDING TYPE: END. MED20
PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 315089
STORE NUMBER: 40164
PA/PM: SM
DRAWN BY.: RS
JOB NO.: 2019088.31

TACO BELL
18708 TELEGRAPH ROAD
BROWNSTOWN, MI 48183

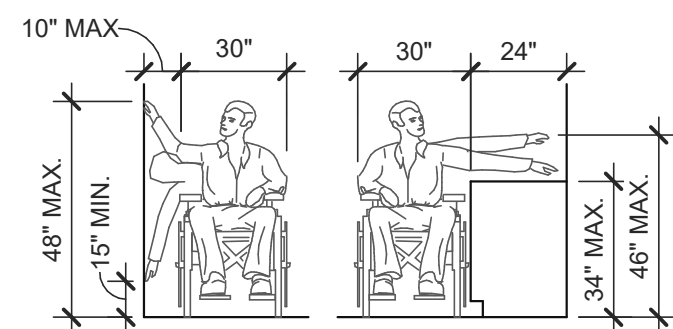
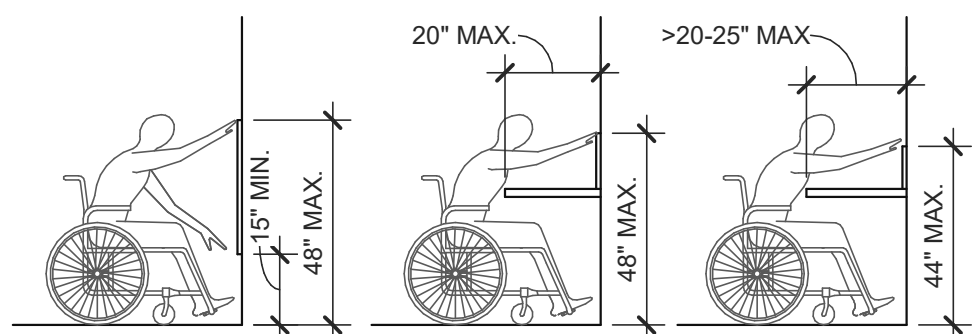


ENDEAVOR 2.0
PATIO DETAILS

A9.0

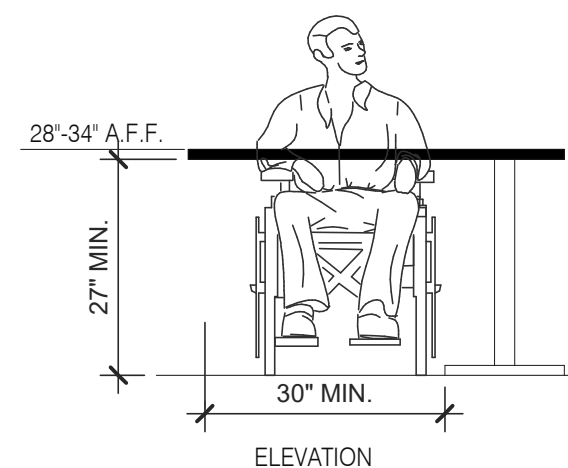
TOTAL SEATS	ACCESSIBLE SEATS
1 - 20	1
21 - 40	2
41 - 60	3
61 - 80	4
81 - 100	5
101 - 120	6
121 - 140	7

NUMBER OF ACCESSIBLE SEATS



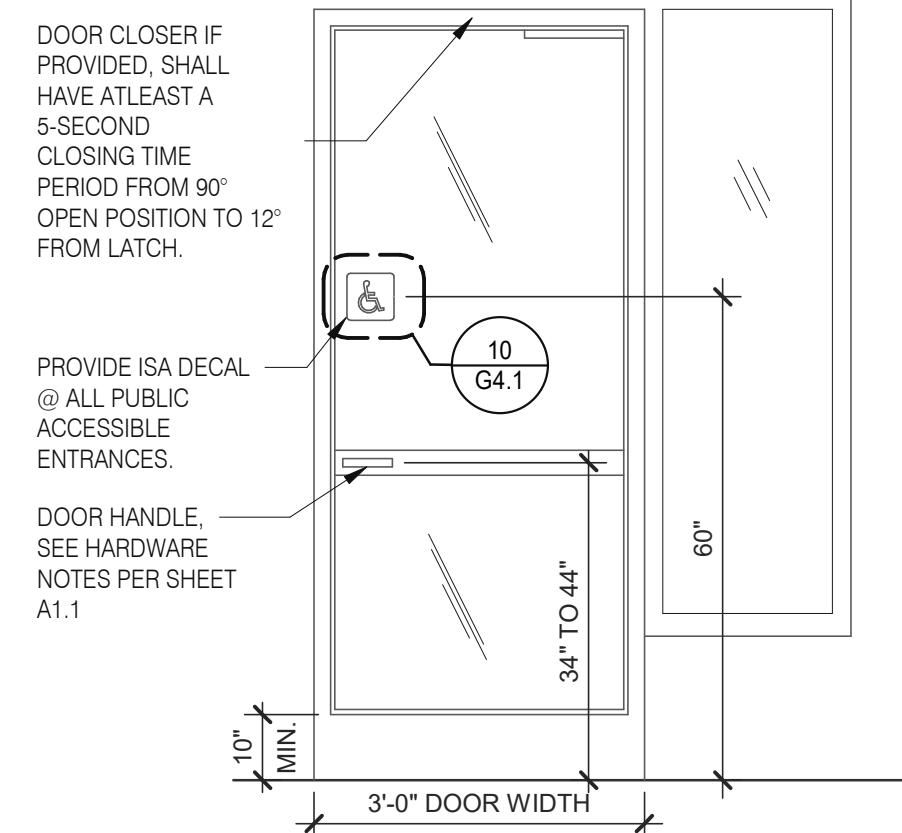
SIDE APPROACH

REACH RANGES 1/4" = 1'-0" **13**

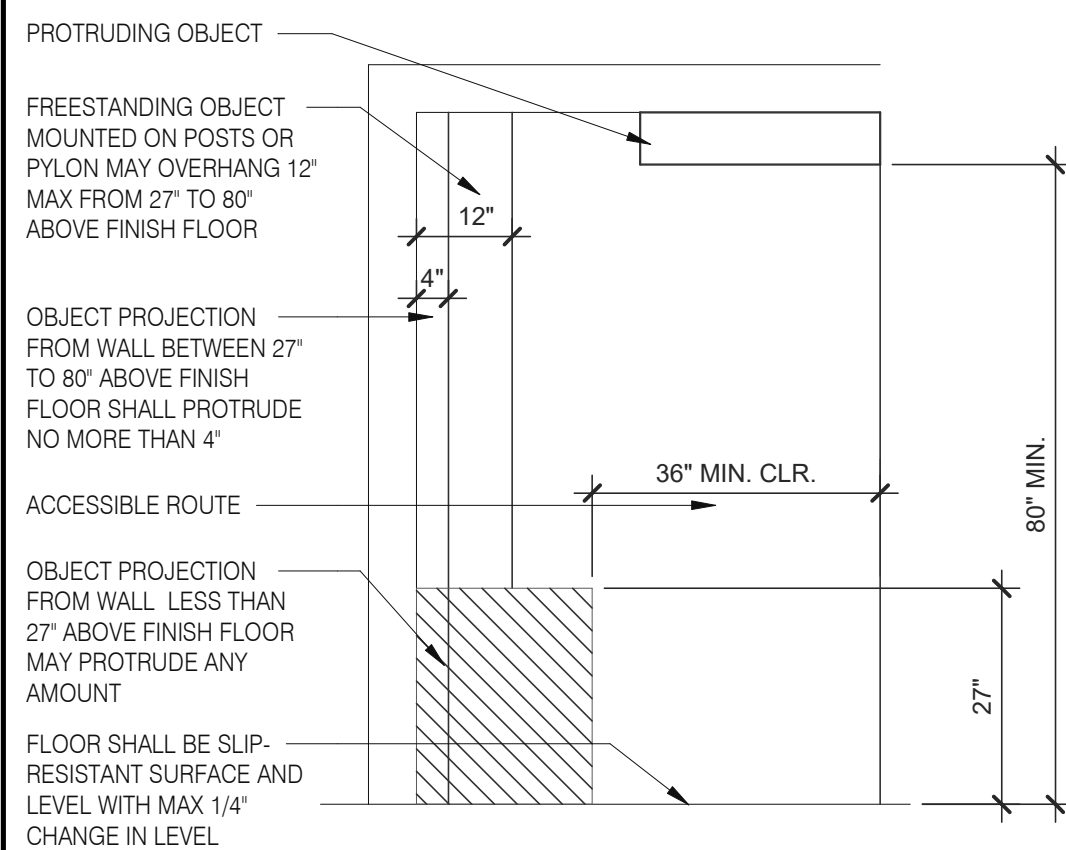


ELEVATION

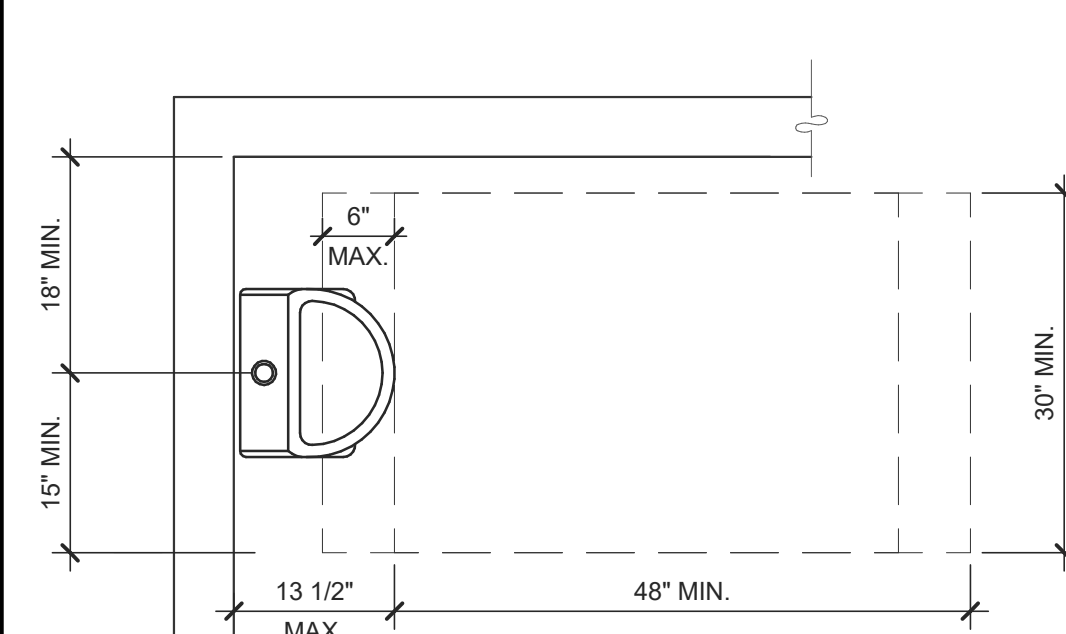
SEATING AND TABLES 1/2" = 1'-0" **18**



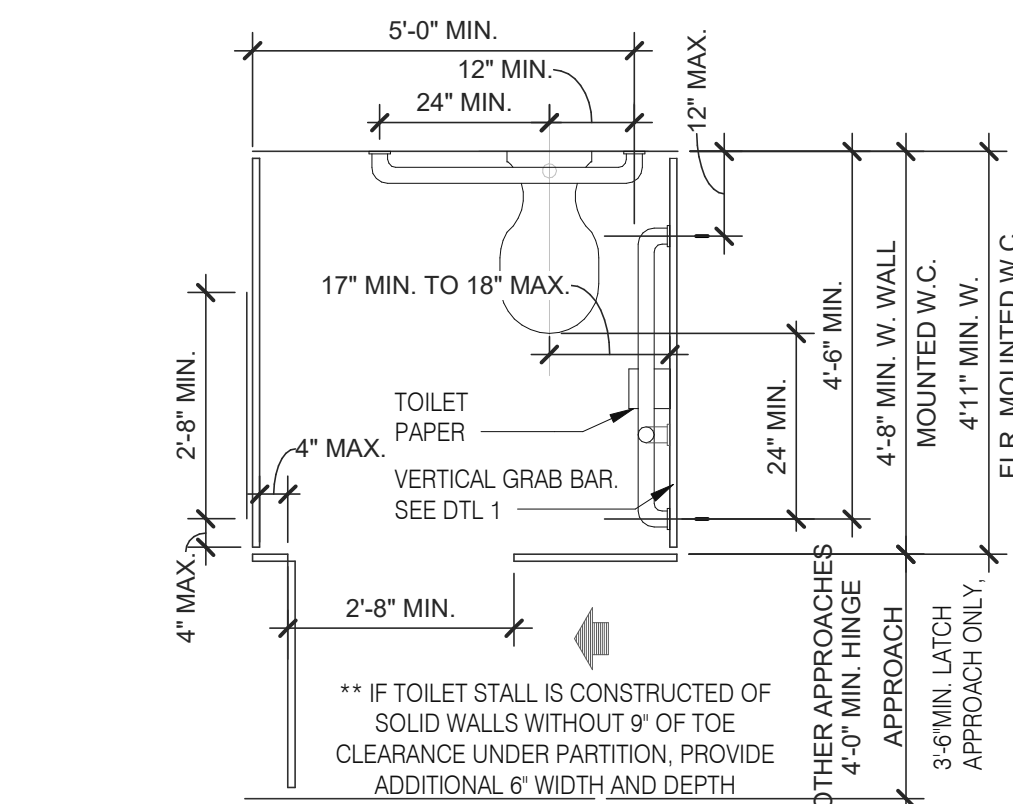
TYP. ENTRANCE / EXIT DOOR 3/8" = 1'-0" **14**



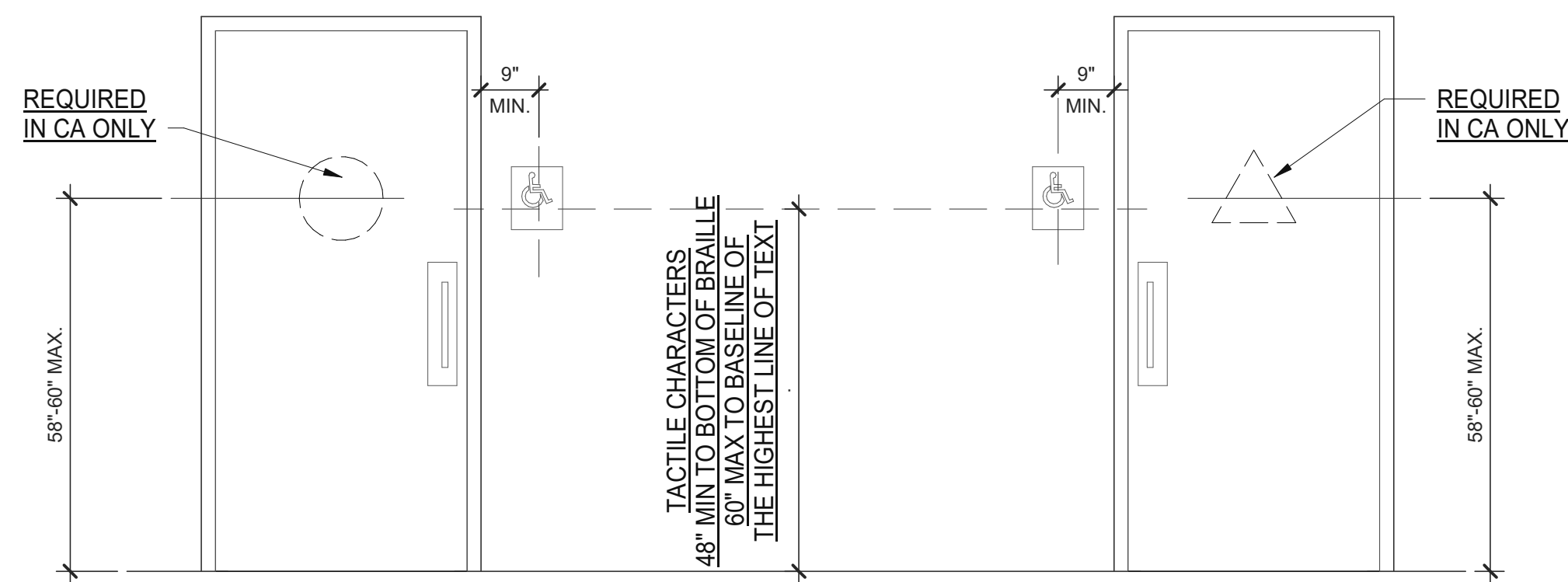
INT. ACCESS. ROUTE CLEARANCES 1/2" = 1'-0" **10**



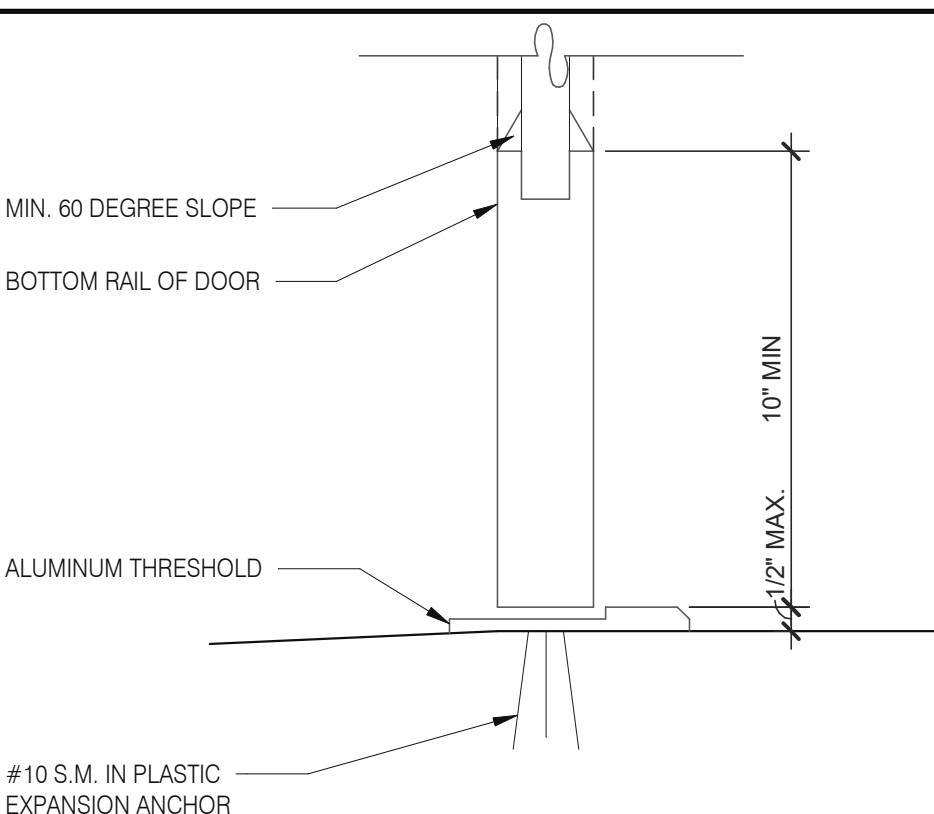
ACCESSIBLE URINAL 3/4" = 1'-0" **6**



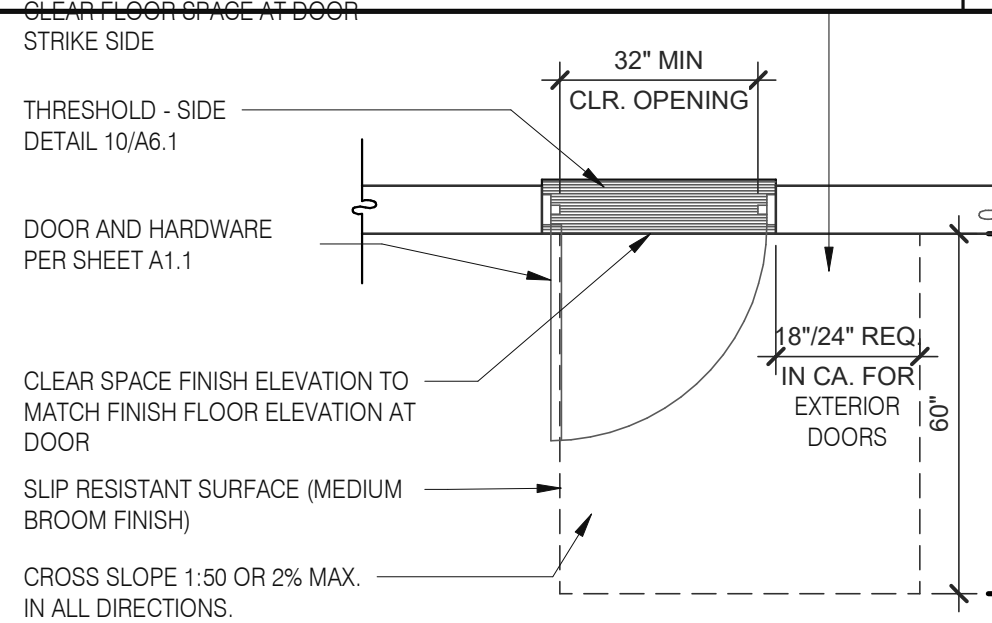
STANDARD TOILET STALL 1/2" = 1'-0" **2**



ACCESSIBLE RESTROOM DOORS 1/2" = 1'-0" **15**

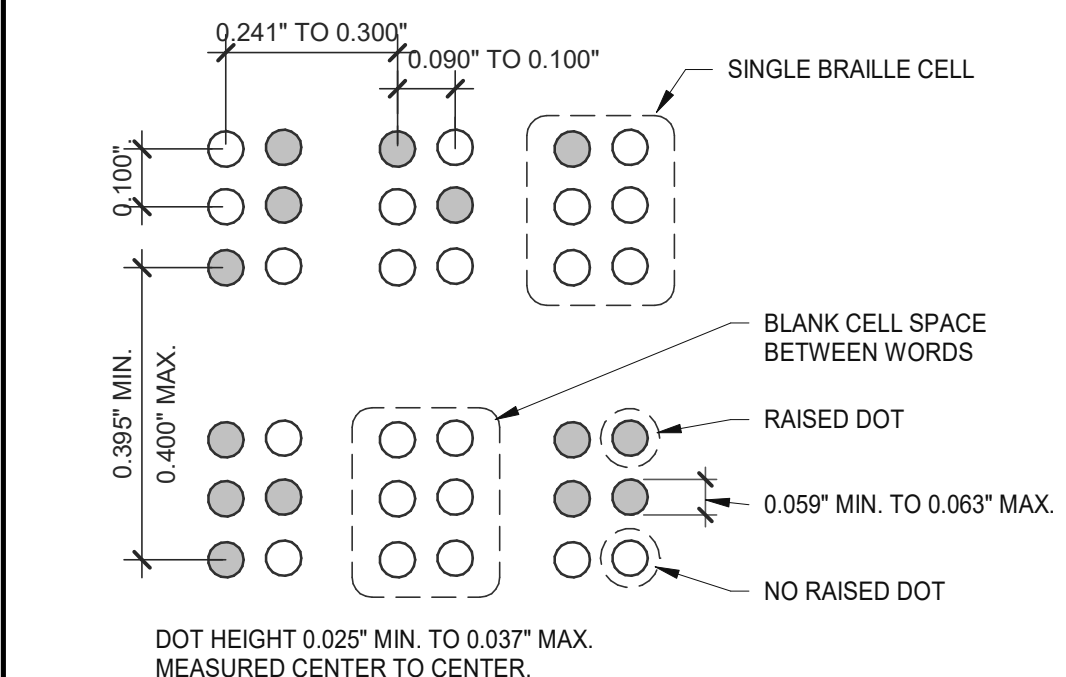


BOTTOM RAIL (EXTERIOR DOOR) 3" = 1'-0" **20**



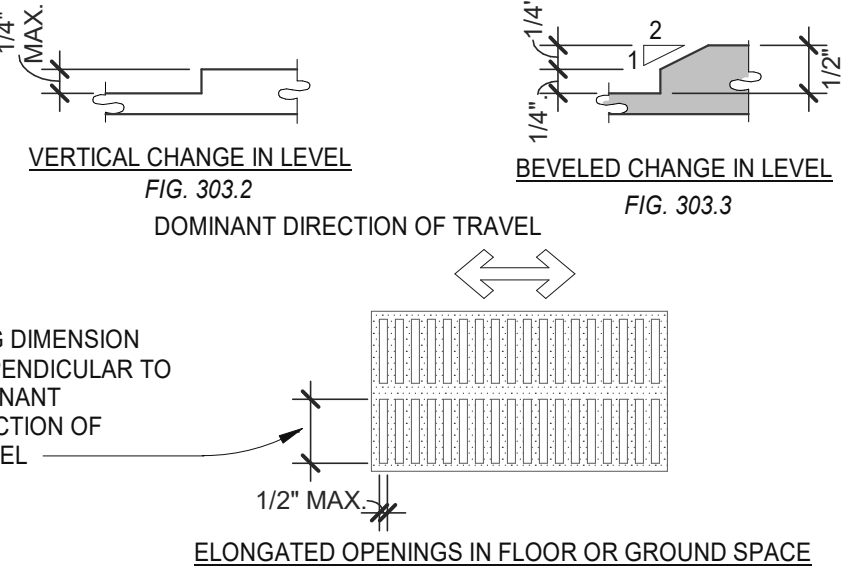
- NOTE:
- EXTERIOR DOOR PRESSURE CANNOT EXCEED 8.5 LBS. (GC TO DOOR PRESSURE TO MINIMUM ALLOWABLE BY AHJ).
 - INTERIOR DOOR PRESSURE CANNOT EXCEED 5 LBS.
 - 60% OF PUBLIC ENTRANCES MUST BE ACCESSIBLE (100% IN CA)

EXTERIOR DOOR REQUIREMENTS 3/8" = 1'-0" **16**

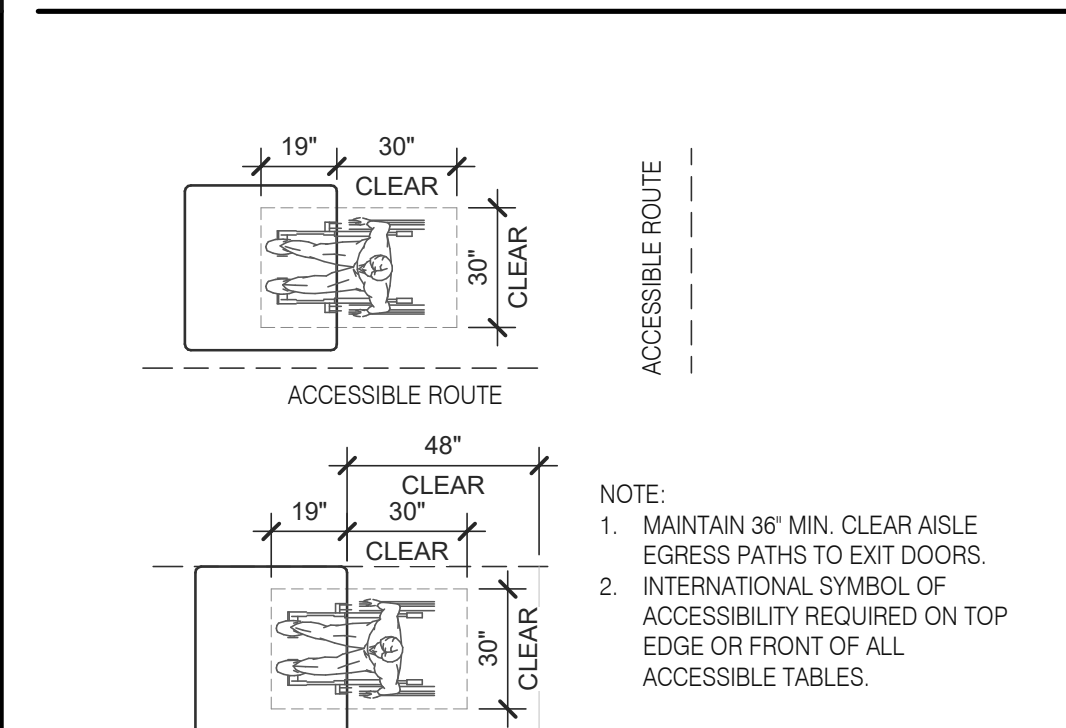


BRAILLE MEASUREMENT 1/4" = 1'-0" **11**

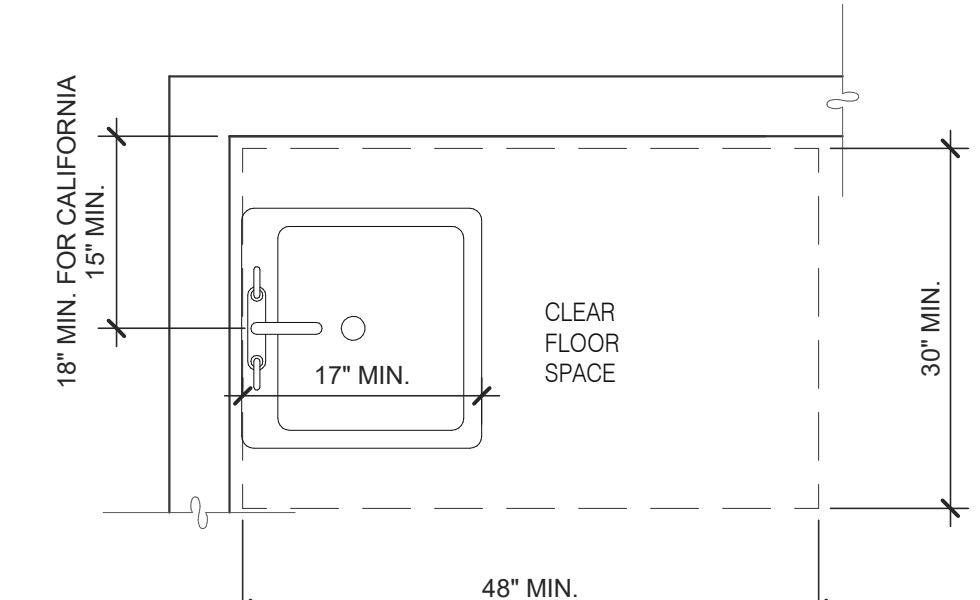
- NOTES:
- FLOOR AND GROUND SURFACES SHALL BE STABLE, FIRM AND SLIP RESISTANT.
 - CARPET OR CARPET TILE SHALL BE SECURELY ATTACHED AND SHALL HAVE A FIRM CUSHION, PAD OR BACKING OR NO CUSHION OR PAD. CARPET OR CARPET TILE SHALL HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL CUT PILE, LEVEL CUT/UNCUT PILE TEXTURE. PILE HEIGHT SHALL COMPLY WITH CARPET PILE HEIGHT FIGURE BELOW. EXPOSED EDGES OF CARPET SHALL BE FASTENED TO FLOOR SURFACES AND SHALL HAVE TRIM ON THE ENTIRE LENGTH OF THE EXPOSED EDGE. CARPET EDGE SHALL COMPLY WITH CHANGE IN LEVEL FIGURES BELOW.



CHANGES IN LEVEL 1/2" = 1'-0" **12**



DINING SEATING CLEARANCES N.T.S. **8**



ACCESSIBLE LAVATORY 3/4" = 1'-0" **3**

- INDICATED DIMENSIONS, HEIGHTS, DEPTHS, AREAS AND OTHER GRAPHIC INFORMATION ARE PROVIDED AS MINIMUMS THAT MUST BE MAINTAINED. THESE MINIMUMS ARE BASED UPON YUM STANDARDS AND MAY EXCEED ADA REQUIREMENTS.
- THE DETAILS SHOWN ARE CONCEPTUAL ONLY AND INTENDED TO SHOW ABSOLUTE MINIMUMS AND SHALL BE COORDINATED WITH THE OTHER CONSTRUCTION DOCUMENTS ASSOCIATED WITH THIS PROJECT.
- 60" TURNING SPACE
 - PERMITTED OVERLAP LIMITED TO 1 ARM OF T-SHAPED SPACE
 - CAN OVERLAP FIXTURE & DOOR CLEARANCE
 - DOOR CAN SWING INTO TURNING SPACE A MAXIMUM OF 12"
- RESTROOM, IN GENERAL, DOOR SWING MUST BE OUTSIDE OF THE FIXTURE CLEAR FLOOR SPACE HOWEVER A DOOR CAN SWING INTO FIXTURE CLEAR FLOOR SPACE IF WHEELCHAIR SPACE 30"x48" IS PROVIDED BEYOND THE DOOR SWING.
- TOILET ROOM MUST ALLOW FOR SIDE TRANSFER - 42" BETWEEN FIXTURES.
- ADAPT TEAM TO VERIFY LOCAL CODE REQUIREMENTS.

GENERAL NOTES **4**

DATE	REMARKS
07.21.21	Issued for Permit
03.11.22	Issued for Construction

CONTRACT DATE: 06.22.21
BUILDING TYPE: END. MED20
PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 315089
STORE NUMBER: 40164
PA/PM: SM
DRAWN BY: RS
JOB NO.: 2019088.31

TACO BELL
18708 TELEGRAPH ROAD
BROWNSTOWN, MI 48183



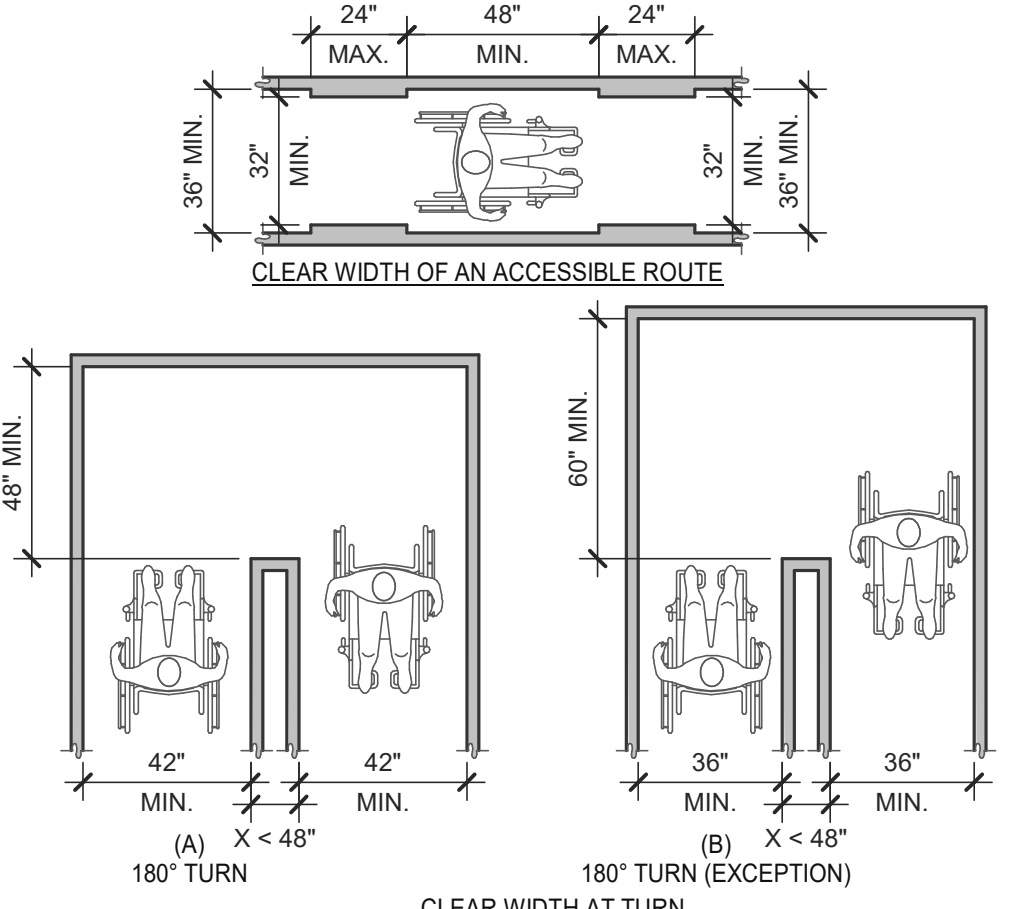
ENDEAVOR 2.0 ACCESSIBILITY REQUIREMENTS

ADA1.0

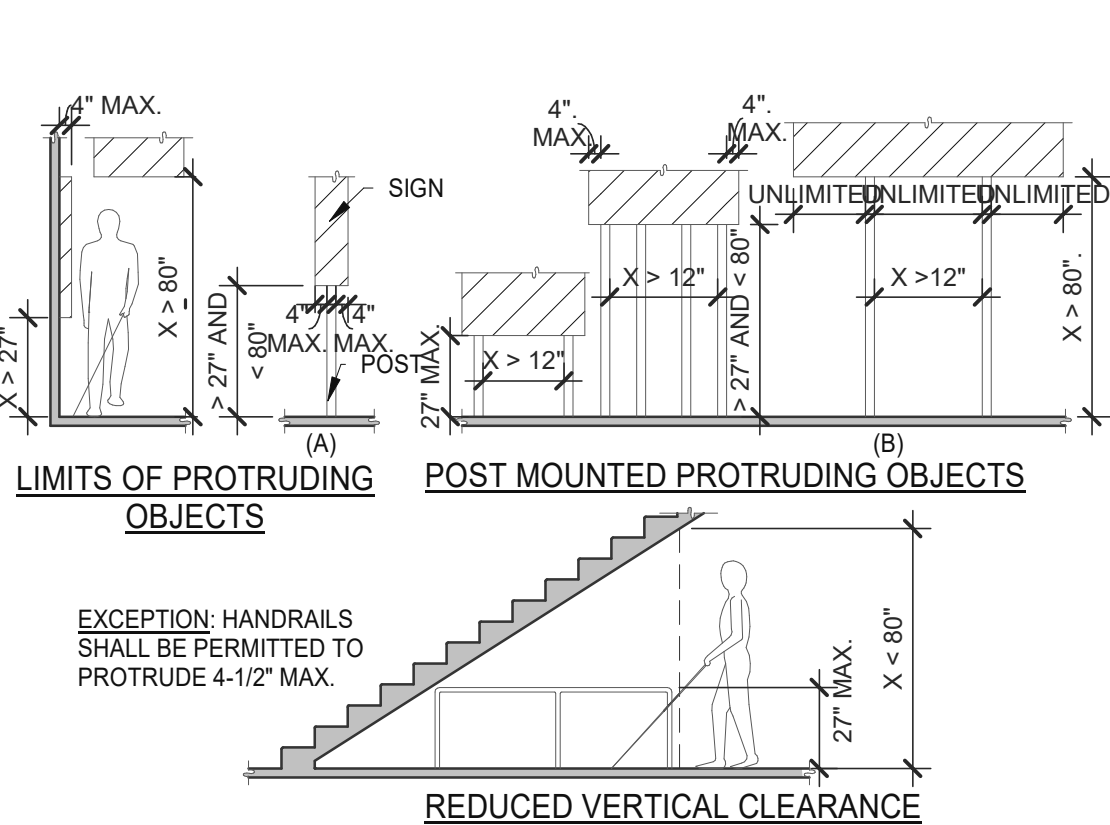
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ACCESSIBILITY NOTES

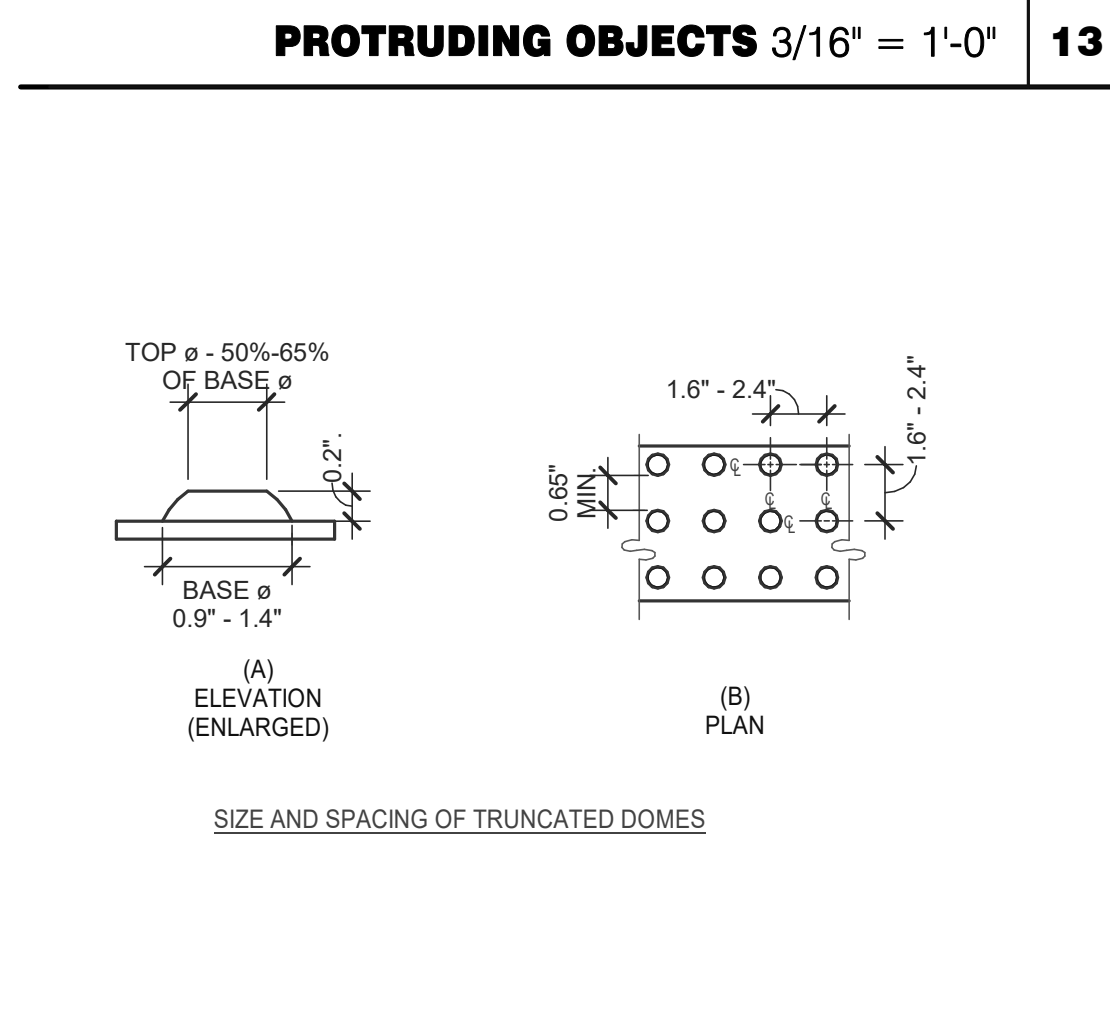
- "THE ACCESSIBILITY GUIDELINES AND CODES" MENTIONED BELOW REFER TO ALL APPLICABLE LOCAL/STATE BUILDING CODES REFERENCED ON THE PROJECT DATA SHEET OF THIS SET IN ADDITION TO THE FEDERAL REQUIREMENTS OF THE ADA (THE AMERICANS WITH DISABILITIES ACT).
- DETAILS ON THIS SHEET ARE FOR REFERENCE ONLY. REFER TO THE ACCESSIBILITY GUIDELINES AND CODES FOR ALL ACCESSIBILITY REQUIREMENTS.
- THE GENERAL CONTRACTOR SHALL BECOME FAMILIAR WITH THE ACCESSIBILITY GUIDELINES AND CODES.
- ANY DISCREPANCY CONTAINED HEREIN DOES NOT RELIEVE THE GENERAL CONTRACTOR OR OWNER FROM COMPLYING WITH THE ACCESSIBILITY GUIDELINES AND CODES.



CLEAR WIDTH 1/4" = 1'-0" **17**



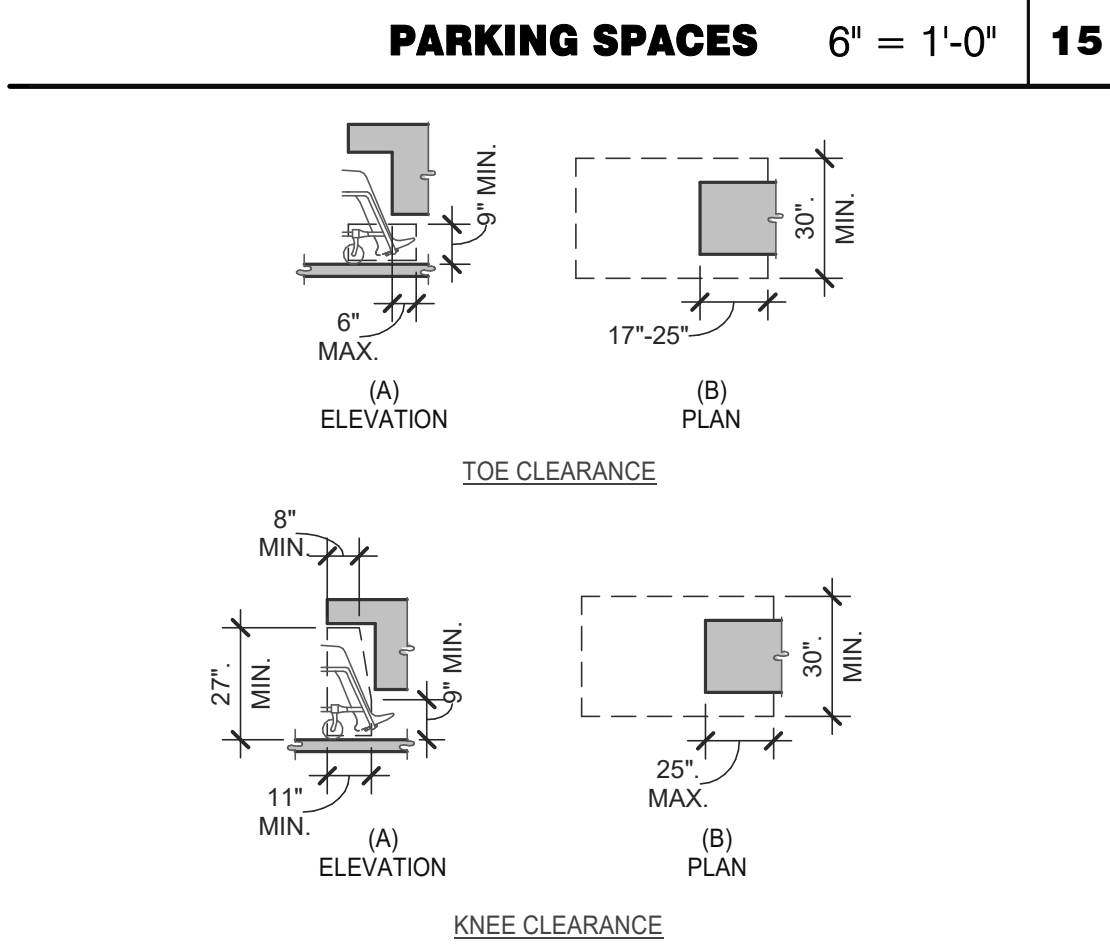
PROTRUDING OBJECTS 3/16" = 1'-0" **13**



DETECTABLE WARNINGS 3" = 1'-0" **14**

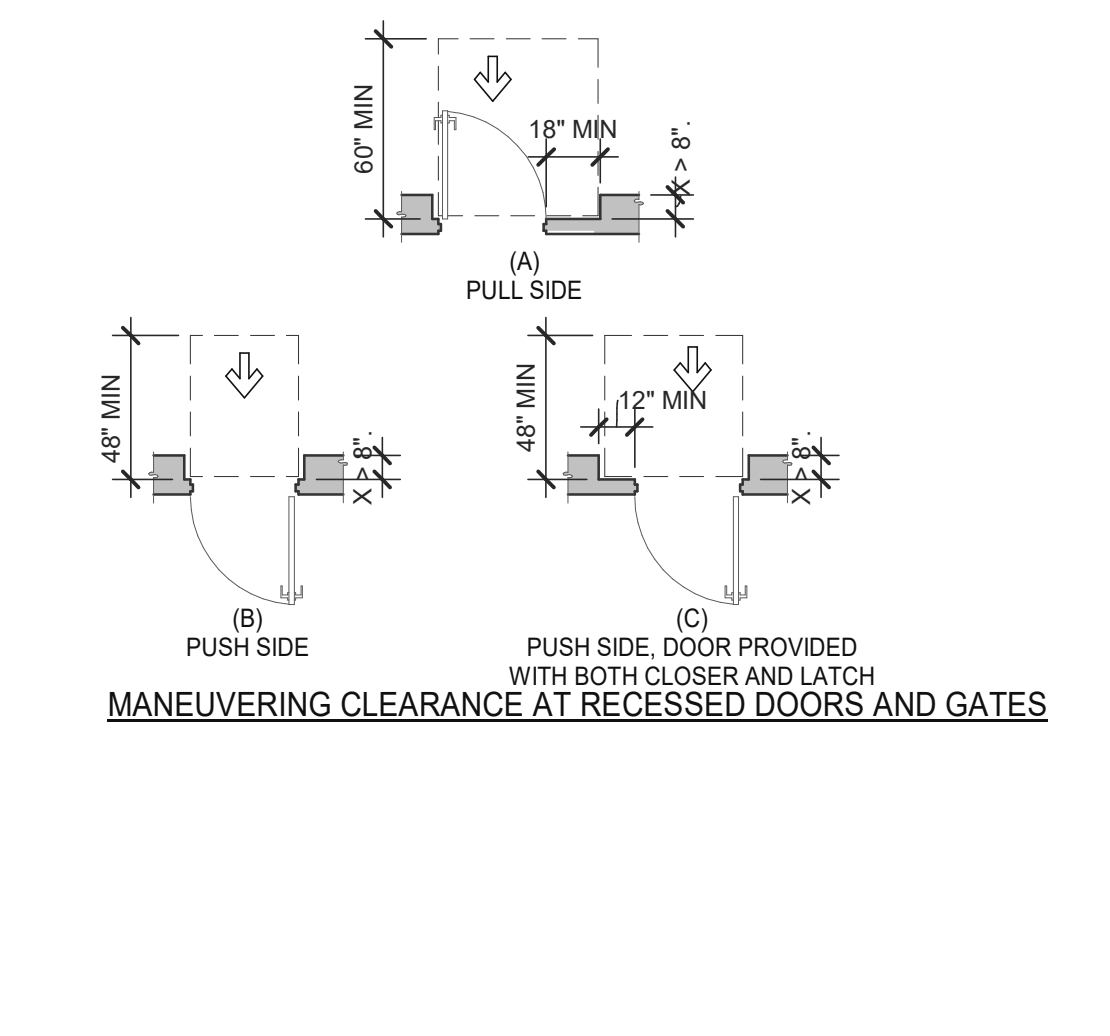
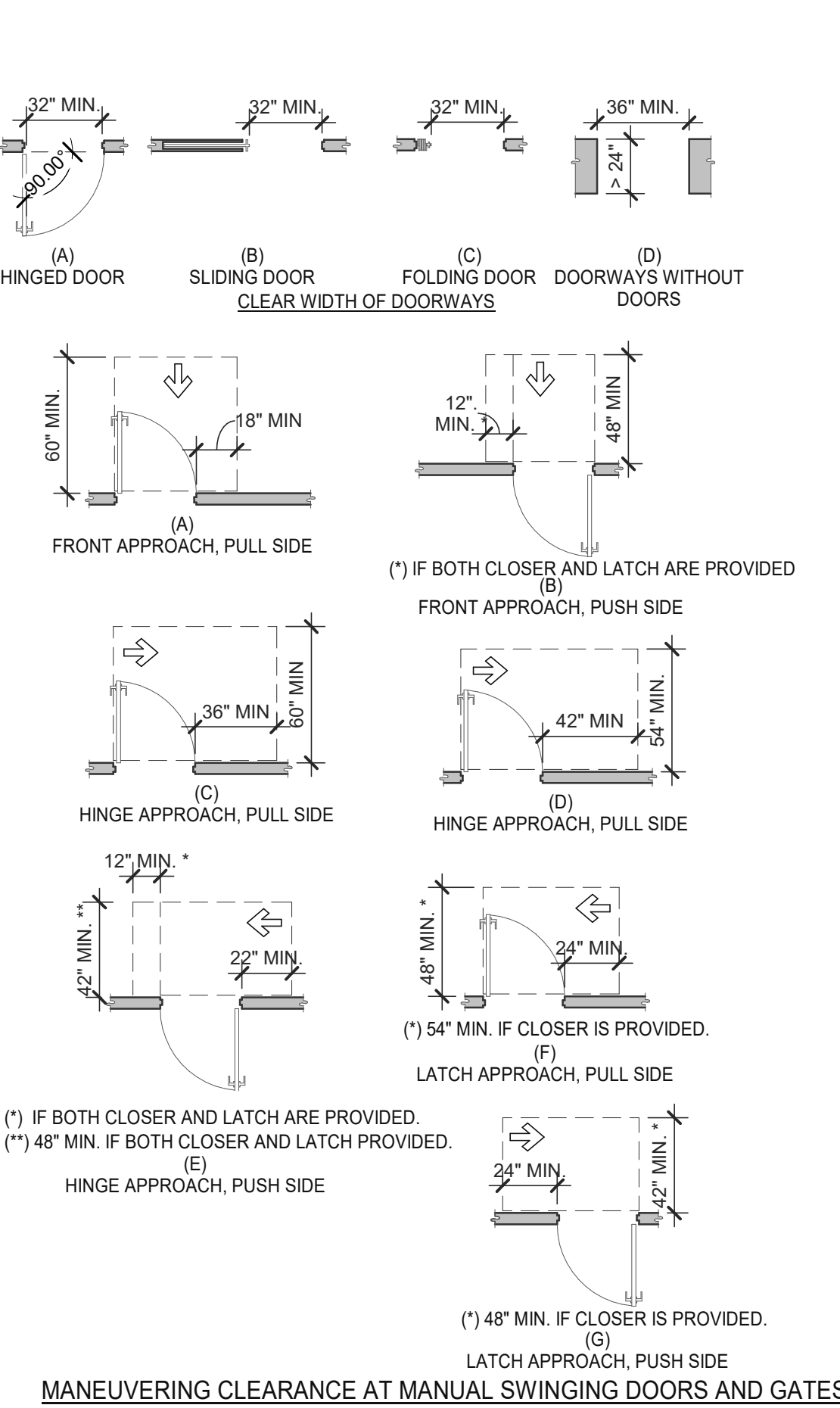
PARKING SPACES

TOTAL NUMBER OF PARKING SPACES PROVIDED IN PARKING FACILITY	MINIMUM NUMBER OF REQUIRED ACCESSIBLE PARKING SPACES
1 TO 25	1
26 TO 50	2
51 TO 75	3
76 TO 100	4
101 TO 150	5
151 TO 200	6
201 TO 300	7
301 TO 400	8
401 TO 500	9
501 TO 1000	2 PERCENT OF TOTAL
1001 AND OVER	20, PLUS 1 FOR EACH 100, OR FRACTION THEREOF, OVER 1000

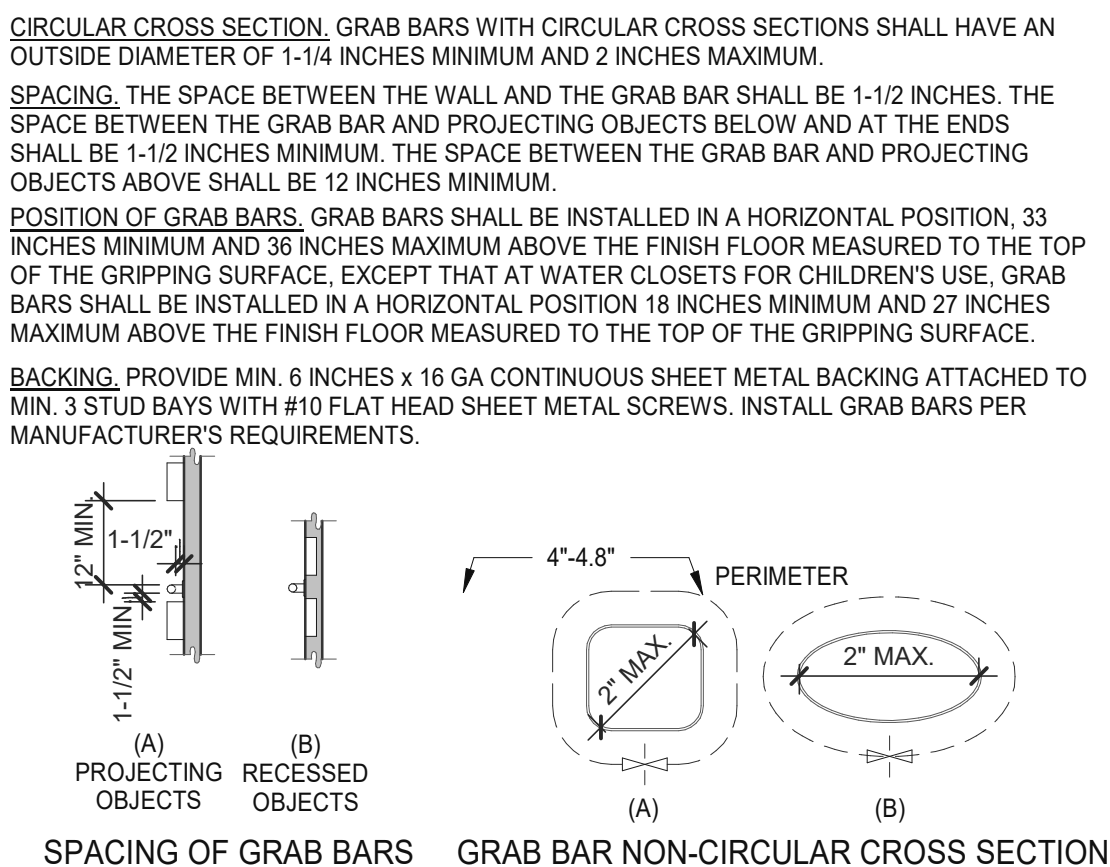


KNEE AND TOE CLEARANCE 1/4" = 1'-0" **16**

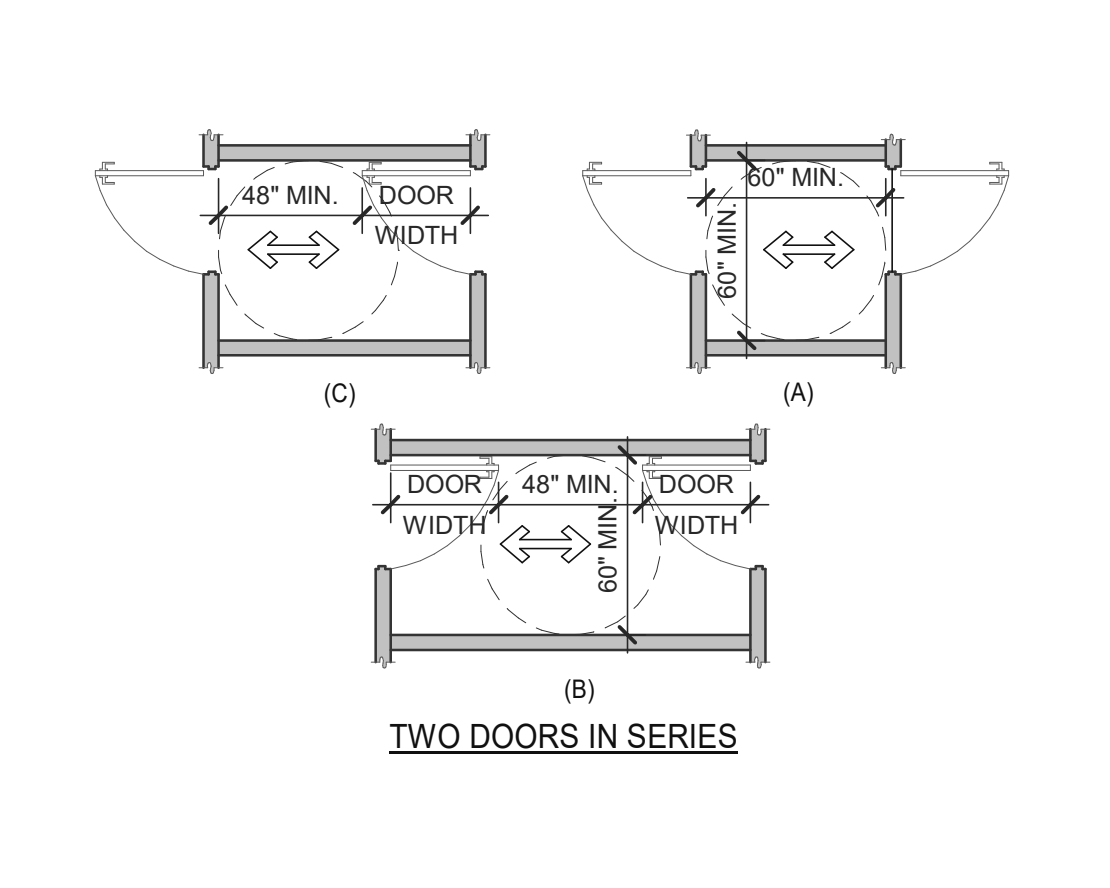
- NOTES:
- FLOOR OR GROUND SURFACE WITHIN REQUIRED MANEUVERING CLEARANCES SHALL COMPLY WITH [FLOOR OR GROUND SURFACES & CHANGES IN LEVEL] DETAIL AND SHALL HAVE A SLOPE NOT STEEPER THAN 1:48. CHANGES IN LEVEL ARE NOT PERMITTED AT DOOR LANDINGS.
 - THRESHOLDS, IF PROVIDED AT DOORWAYS SHALL BE 1/2" HIGH MAX. RAISED THRESHOLDS AND CHANGES IN LEVEL AT DOORWAYS SHALL COMPLY WITH [FLOOR OR GROUND SURFACES & CHANGES IN LEVEL] DETAIL.
 - HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERABLE PARTS ON DOORS AND GATES SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OR THE WRIST.
 - THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 LBS (22.5 N) MAX.
 - OPERABLE PARTS OF DOOR HARDWARE SHALL BE 34" MIN. AND 48" MAX. ABOVE THE FINISH FLOOR OR GROUND.
 - WHERE SLIDING DOORS ARE IN THE FULLY OPEN POSITION, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES.
 - DOOR AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90° THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12° FROM THE LATCH IS 5 SECONDS MIN.
 - DOOR AND GATE SPRING HINGES SHALL BE ADJUSTED SO THAT FROM THE OPEN POSITION OF 70° THE DOOR OR GATE SHALL MOVE TO THE CLOSED POSITION IN 1.5 SECONDS MIN.
 - THE FORCE FOR PUSHING OR PULLING OPEN A DOOR OR GATE SHALL BE AS FOLLOWS:
 - INTERIOR HINGED DOORS AND GATES: 5 LBS (22.5 N) MAX.
 - SLIDING OR FOLDING DOORS: 5 LBS (22.5 N) MAX.
 - REQUIRED FIRE DOORS: THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 LBS (66.7N).
 - EXTERIOR HINGED DOORS: 5 LBS (22.5 N) MAX.
 - SWINGING DOOR AND GATE SURFACES WITHIN 10" OF THE FINISH FLOOR OR GROUND MEASURED VERTICALLY SHALL HAVE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR OR GATE. PARTS CREATING HORIZONTAL OR VERTICAL JOINTS IN THESE SURFACE SHALL BE WITHIN 1/16" OF THE SAME PLANE AS THE OTHER AND BE FREE OF SHARP OR ABRASIVE EDGES. CAVITIES CREATED BY ADDED KICK PLATES SHALL BE CAPPED.
 - WHERE AUTOMATIC AND POWER-ASSISTED DOORS AND GATES WITHOUT STANDBY POWER ARE PART OF A MEANS OF EGRESS THE CLEAR BREAK OUT OPENING AT SWINGING OR SLIDING DOORS AND GATES SHALL BE 32" MIN. WHEN OPERATED IN EMERGENCY MODE.



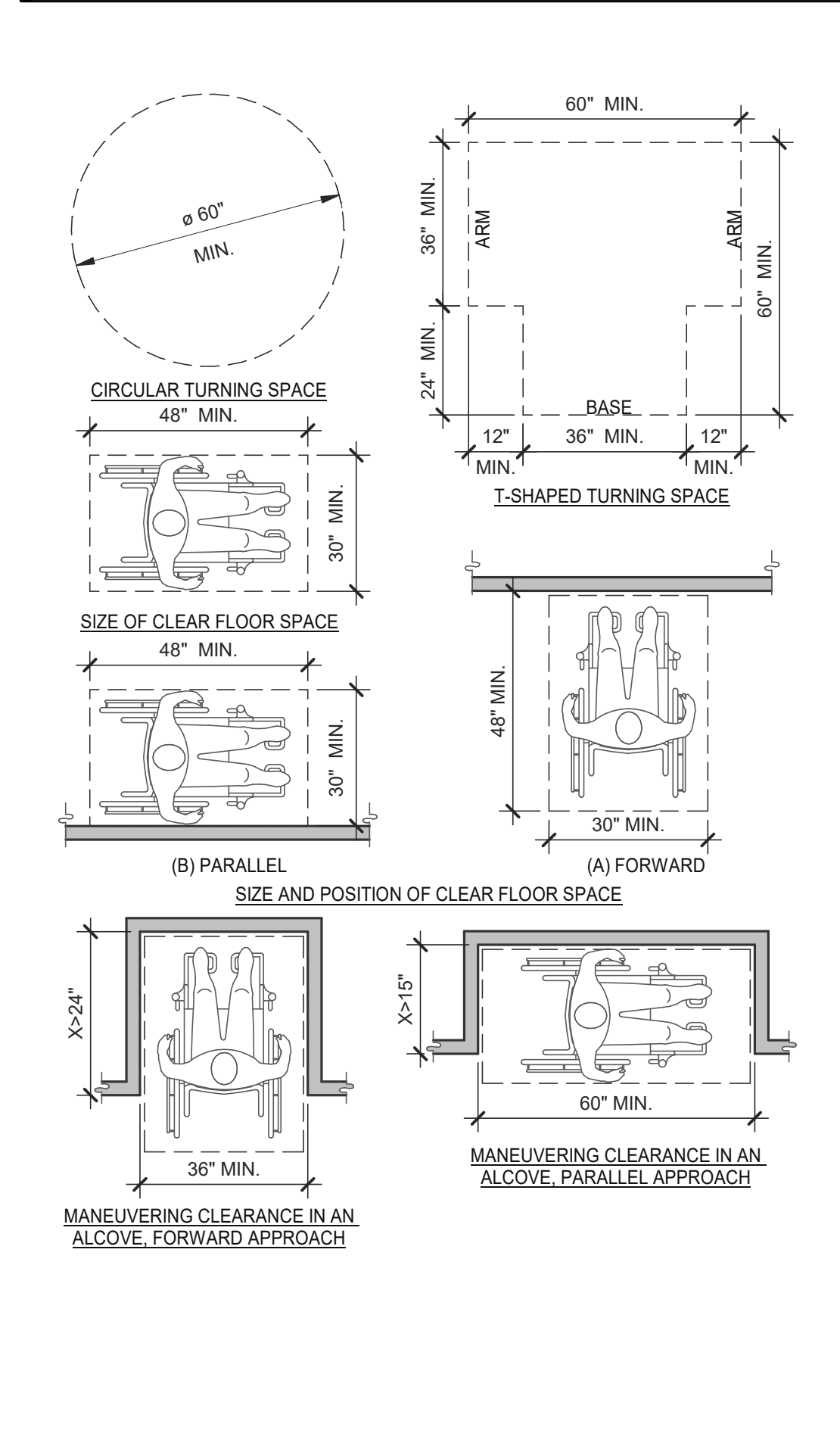
DOORS, DOORWAYS & GATES 3/16" = 1'-0" **12**



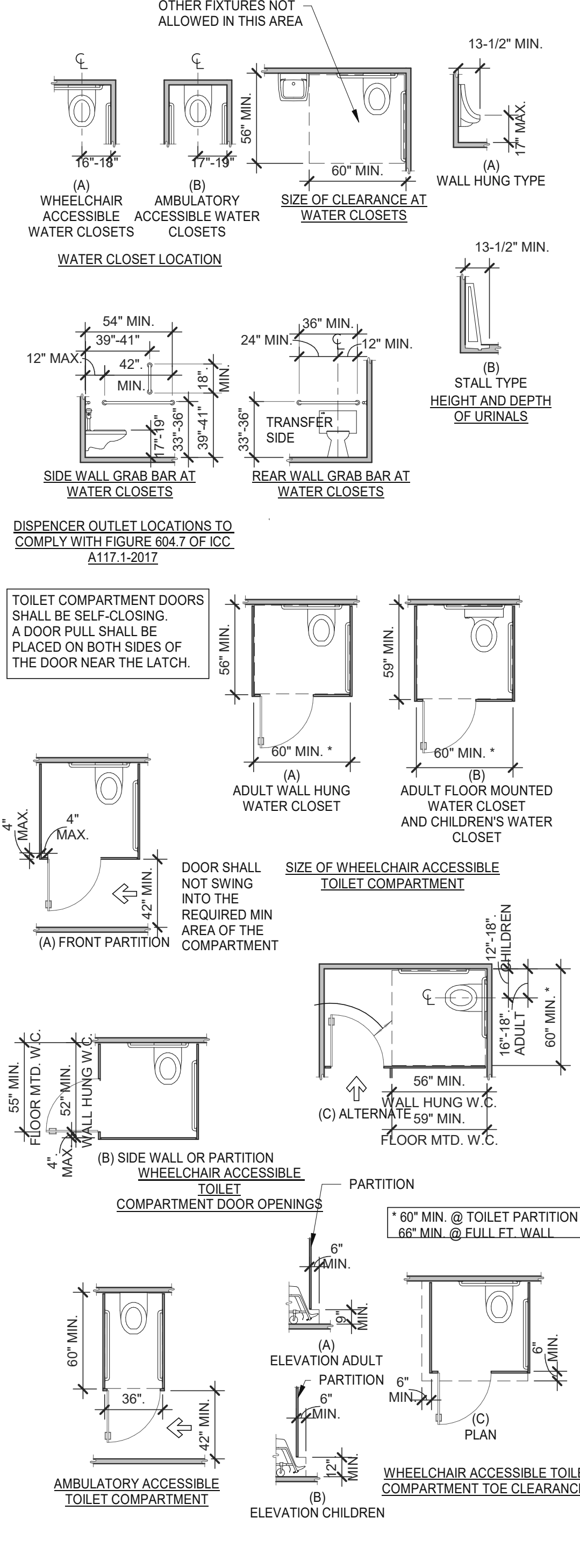
GRAB BARS 3/16" = 1'-0" **5**



DOORS, DOORWAYS & GATES 3/16" = 1'-0" **6**



CLEAR FLOOR OR GROUND SPACE 3/8" = 1'-0" **8**



WC AND TOILET COMPARTMENTS 3/16" = 1'-0" **4**

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 DRAWN BY.: RS
 JOB NO.: 2019088.31

TACO BELL
 18708 TELEGRAPH ROAD
 BROWNSTOWN, MI 48183



**ENDEAVOR 2.0
 ACCESSIBILITY
 REQUIREMENTS**

ADA1.1

GENERAL:

- 1. LOCATE, CUT AND FRAME ROOF OPENINGS AS SHOWN FOR ALL HVAC EQUIPMENT AND EXHAUST FANS. IT IS VERY IMPORTANT THAT ACCURATE MEASUREMENTS ARE USED WHEN LOCATING EXHAUST FAN ROOF OPENINGS TO ENSURE THAT NO ADDITIONAL OFF-SETS ARE REQUIRED IN THE EXHAUST DUCTWORK. COORDINATE ROOF OPENINGS WITH KITCHEN EQUIPMENT.
2. PROVIDE FRAMING REQUIRED FOR DIFFUSER INSTALLATION IN HARD CEILING.

HVAC:

- 1. INSTALLATION SHALL CONFORM TO MECHANICAL AND ENERGY CODES FOR NEW NONRESIDENTIAL BUILDINGS.
2. ALL WORK AND MATERIALS SHALL COMPLY WITH GOVERNING CODES, SAFETY ORDERS AND REGULATIONS.
3. OBTAIN AND PAY FOR ALL NECESSARY PERMITS, FEES AND INSPECTIONS REQUIRED BY GOVERNING AUTHORITIES.
4. E.C. SHALL PROVIDE CONDUIT FOR LINE AND LOW VOLTAGE WIRING, LINE VOLTAGE WIRING SWITCHES, AND FINAL CONNECTIONS. REFER TO SHEETS E3.0 - ELECTRICAL POWER PLAN, SHEET E3.2-ELECTRICAL POWER ROOF PLAN, E6.0 - ELECTRICAL DETAILS - TBCCB, E6.1 - ELECTRICAL DETAILS - TBCCB, E7.0 - ELECTRICAL DETAILS, E7.1 - ELECTRICAL DETAILS.
5. PROVIDE 24V CONTROL WIRING AND FINAL CONNECTIONS. EQUIPMENT THAT IS SUBSTITUTED SHALL FIT IN SPACE PROVIDED WITH ADEQUATE ROOM FOR SERVICING, INCLUDING SUBSTITUTE EQUIPMENT NAMED IN SPECIFICATIONS. SUBMIT A 1/4" SCALE DRAWING OF ALL EQUIPMENT SUBSTITUTED FOR APPROVAL PRIOR TO INSTALLATION, INCLUDING, BUT NOT LIMITED TO, STRUCTURAL AND ARCHITECTURAL IMPACT, CLEARANCE REQUIREMENTS AND UTILITY REQUIREMENTS. REFER TO ELECTRICAL DRAWINGS SHEETS E6.1 AND E7.1 FOR ADDITIONAL LOW VOLTAGE WIRING AND CONNECTIONS.
6. PROVIDE ALL REFRIGERANT LINES FROM ICE MACHINE TO CONDENSER ON ROOF AND CHARGE LINES PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
7. HVAC UNITS SHALL BE MOUNTED LEVEL ON ROOF CURBS.
8. SUPPLY / RETURN DUCTWORK SHALL BE EXTERNALLY INSULATED. ALL RETURN AND SUPPLY DUCT RISERS SHALL BE LINED (NOT WRAPPED).
9. SUPPLY / RETURN DUCTS SHALL BE RIGID (EXCEPT AS NOTED/INDICATED AS RIGID ON THE DUCT PLAN), WITH THE EXCEPTION OF THE LAST 5'-0", WHICH MAY UTILIZE FLEXIBLE DUCT. ALL EXHAUST DUCT SHALL BE RIGID. ROOFTOP UNITS SHALL BE ORDERED WITH FACTORY SUPPLIED AND INSTALLED RETURN SMOKE DETECTORS. WHEN REQUIRED BY MANUFACTURER, SAMPLE TUBE SHALL BE LOCATED PER FIELD INSTALLATION INSTRUCTIONS. DETECTOR SHALL DEACTIVATE ROOFTOP UNIT UPON SENSING SMOKE. INCLUDE SUPPLY SMOKE DETECTOR ONLY IF REQUIRED BY LOCAL CODE.
10. HOOD EXHAUST DUCTS SHALL BE RIGID 16 GA MINIMUM, WELDED DUCT. GRIND ALL WELDS SMOOTH. PROVIDE 3M FIRE BARRIER DUCT WRAP FOR ALL HOOD EXHAUST DUCTS. PROVIDE TRANSITION AT TERMINATION OF TYPE 1 EXHAUST DUCT TO TOP OF FAN BASE. TRANSITION SHALL BE CENTERED AND HAVE MINIMUM OF 1' PER FOOT SLOPE.
11. BRANCH DUCTS FEEDING INDIVIDUAL DIFFUSERS SHALL HAVE DAMPERS AT BRANCH FEEDER. DAMPER SHALL BE MINIMUM 26 GAUGE LOCATED IN DEDICATED SLEEVE WITH AXLE AND LOCKING QUADRANT. DAMPERS SHALL NOT BE INSTALLED IN STARTER COLLARS. ALL DAMPER HANDLES SHALL HAVE A FLAG ON THE HANDLE FOR LOCATION PURPOSES. OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 10'-0" FROM EXHAUST FANS AND VENTS.
12. SEE M1.0 AND SCOPE OF WORK FOR DESCRIPTION OF HVAC PACKAGE TO BE PURCHASED THROUGH YUM! BRANDS NATIONAL CONTRACT.
13. CONTRACTOR IS RESPONSIBLE FOR PROVIDING HVAC TEST & BALANCE REQUIRED FOR LOCAL AUTHORITY HAVING JURISDICTION, CERTIFICATE OF OCCUPANCY, BUILDING FINAL, ETC.
14. FINAL HVAC SYSTEM TESTING AND BALANCING, AND COMMISSIONING SHALL BE PERFORMED BY INDEPENDENT AGENT. CONTRACTED DIRECTLY BY THE OWNER IS SCHEDULED AND PAID FOR (FRANCHISEE STORES) BY GENERAL CONTRACTOR (CORPORATE STORES ARE DIRECT BILLED TO TACO BELL). CONTRACTOR SHALL CERTIFY COMPLETION OF INSTALLATION, START UP AND PRE-COMMISSIONING CHECKLIST SHOWN ON SHEET SW2.0 BEFORE SCHEDULING OWNER'S INDEPENDENT AGENT. A RE-TEST IS MANDATORY FOR A FALSE START (I.E. NO POWER UPON AGENTS ARRIVAL, EQUIPMENT NOT WIRED, COMPLETED, STARTED, ETC.) AND SHALL BE A COST INCURRED BY THE G.C. IN THE EVENT A SYSTEM / STORE RECEIVES A GRADE OF 5 OR BELOW AS A RESULT OF THE HVAC SYSTEM PERFORMANCE OR OPERATIONAL DEFICIENCIES, OWNER WILL REQUEST A RE-TEST AND THE COST SHALL BE INCURRED BY THE GENERAL CONTRACTOR.

INDEPENDENT AGENTS:

Air Care Experts
TAB@ACE-IAQ.COM
949 770-2222

- 17. WIRE ALL SMOKE DETECTORS IN RTU TO ITS RESPECTIVE REMOTE ANNUCIATOR/RESET SWITCH. INSTALL 'SYSTEM SENSOR' MODEL RTS2AOS. MOUNT NEXT TO THERMOSTATS @ 48" A.F.F. - INSTALL PER MANUFACTURER SPECIFICATIONS.
18. REFERENCE RTU TO TBCCB CONNECTIONS PER E6.1.
19. RTU MANUFACTURER FURNISHED THERMOSTATS SHALL BE CAPABLE OF RECIEVING AN EXTERNAL 'OCCUPIED' SIGNAL.
20. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR LOW VOLTAGE CONNECTIONS.
21. REFERENCE RTU TO TBANS CONNECTIONS PER E7.1. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR LOW VOLTAGE CONNECTIONS.
22. LOW VOLTAGE CONNECTIONS TO SMOKE DETECTORS, REMOTE ANNUCIATORS AND RESETS, HUMIDISTATS, THERMOSTATS, REMOTE SENSORS, TBCCB AND TBANS REQUIRE VISUAL INSTALLATION VERIFICATION CERTIFICATE. CONTACT CERTIFY@ACE-BCX.COM OR 949 770 2222 FOR CERTIFICATE. SEE SHEET SW2.0 CERTIFICATE.

MECHANICAL NOTES

6

Table with 3 columns: SYMBOL & ABBREV., DESCRIPTION, and a detailed list of mechanical symbols and abbreviations such as SA/SUP, RA/RET, EA/EXH, CD/SR, RR/RG, ER/EG, FLEX, MCD, T-STAT, etc.

Table with 2 columns: SYMBOL & ABBREV., DESCRIPTION, and a detailed list of mechanical symbols and abbreviations such as A/C, AC, A.F.F., BDD, CB, CLG, CONN., CONT., CFM, DISC., EA, EF, (E), GA, GC, HVAC, MFR., MECH., OA, OBD, RA, SA, S/S, TYP., etc.

MECHANICAL SYMBOLS

7

REFER TO SCOPE OF WORK IN DIV 23 SPECIFICATION FOR HVAC FOR TEST & BALANCE & COMMISSIONING REQUIREMENTS WHICH WILL BE SUPPLIED BY THE OWNER AND COORDINATED BY THE GC.

Table with columns: MARK, AREA SERVED, SUPPLY CFM, MIN. OA CFM, ESP, HP, RPM, FAN DATA, COOLING CAPACITY, HEATING CAPACITY, ELECTRICAL DATA, WEIGHT, MODEL, NOTES. Includes data for RTU-1 and RTU-2.

SCHEDULE NOTES:

- 1. LISTED CAPACITY IS THE UNITS NET COOLING CAPACITY AT THE FOLLOWING CONDITIONS: RTU-1 - 80.8°F DB / 68.5°F WB EAT AND 95°F AMBIENT / RTU-2 - 79.6°F DB / 67.7°F WB EAT AND 95°F AMBIENT. OUTDOOR DESIGN CONDITION, SUMMER 95°F & 73°F WB, WINTER 0°F. THERMOSTAT SHALL BE PROGRAMMED FOR 73°F IN SUMMER AND 68°F IN WINTER WITH 2°F ADJ. FUNCTION UP OR DOWN. THE UNOCCUPIED TEMP SHALL BE SET TO THE STORE SCHEDULE AND 60°F MINIMUM. SPECIFIED UNITS INCLUDE MINIMUM 2 STAGE COOLING, LOW AMBIENT CONTROL TO 0 DEG. F AND THROUGH THE ROOF CURB CURB GAS AND POWER CONNECTIONS.
2. HINGED ACCESS DOORS (FACTORY PROVIDED).
3. 2 INCH MERV 8 FILTER (FACTORY PROVIDED).
4. SINGLE ENTHALPY ECONOMIZER/W HOOD (FACTORY PROVIDED).
5. HIGH PERF ECONOMIZER (FACTORY PROVIDED).
6. STANDARD STATIC POWER RELIEF/W HOOD (FACTORY PROVIDED).
7. UNIT MOUNTED DISCONNECT SWITCH (FACTORY PROVIDED).
8. RETURN AIR SMOKE DETECTOR (FACTORY PROVIDED).
9. PHASE MONITOR (FACTORY PROVIDED).
10. CONSTANT AIR VOLUME (FACTORY PROVIDED).
11. 14" ROOF CURB (FIELD INSTALLED).
12. COMFORT SENSE 7500 THERMOSTAT (FIELD INSTALLED).
13. GFCI (FIELD WIRED, FACTORY INSTALLED).

HVAC UNIT SCHEDULE

1

Table with columns: Mark, CFM, ESP, RPM, HP, VOLTS/PH, DRIVE TYPE, MANUFACTURER, MODEL, NOTES. Includes data for EF-1 and EF-2.

REMARKS:

- 1. UL 762 LISTED (GREASE)
2. UL 705 LISTED (HEAT OR STEAM)
3. FLAT ROOF CURB, 19.5" X 19.5" X 26"H, VENTED
4. FLAT ROOF CURB, 19.5" X 19.5" X 14"H
5. GREASE CUP WITH DRAIN
6. FACTORY ATTACHED HINGES
7. WEATHERPROOF PRE-WIRED DISCONNECT SWITCH
8. PROVIDE PRE-WIRED SOLID STATE SPEED CONTROLLER
9. GRAVITY BACKDRAFT DAMPER
10. FURNISHED BY OWNER WITH HOOD PACKAGE
11. FURNISHED WITH DAMPER TRAY

EXHAUST FAN SCHEDULE

2

Table with columns: MARK, NECK SIZE, FACE SIZE OR GRID SIZE, (NO.) & AIR PATTERN, TYPE, MAX FLOW (CFM), MOUNTING, MATERIAL, MANUFACTURER, MODEL NUMBER, REMARKS. Includes data for E-1, E-2, R-1, S-1, S-2, S-4, T-1.

NOTES:

- 1. SURFACE MOUNTED DIFFUSERS IN HARD CEILINGS SHALL BE PROVIDED WITH OPPOSED BLADE DAMPERS. SEE ARCHITECTURAL DRAWINGS FOR CEILING TYPES.

AIR DEVICE SCHEDULE

3

Table with columns: ITEM, OA, RA, SA, EA, PRESSURE. Includes data for EF-1, EF-2, RTU-1, RTU-2, and TOTAL.

NOTES:

- OUTSIDE PERCENTAGE OF TOTAL SUPPLY AIR IS 22.5% FOR RTU-1 AND RTU-2.
• ADJUST OUTSIDE AIR INTAKES TO MAINTAIN VALUES AT ALL EVAPORATOR FAN SPEEDS.

HVAC NATIONAL ACCOUNT NOTES

5

AIR BALANCE SCHEDULE

4



Table with columns: DATE, REMARKS. Includes dates 09.17.21 and 03.11.22 with remarks 'Health Comments' and 'Issued for Construction'.

CONTRACT DATE: 06.22.21
BUILDING TYPE: END, MED20
PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 315089
STORE NUMBER: 40164
PA/PM: SM
DRAWN BY.: TH
JOB NO.: 2019088.31

TACO BELL

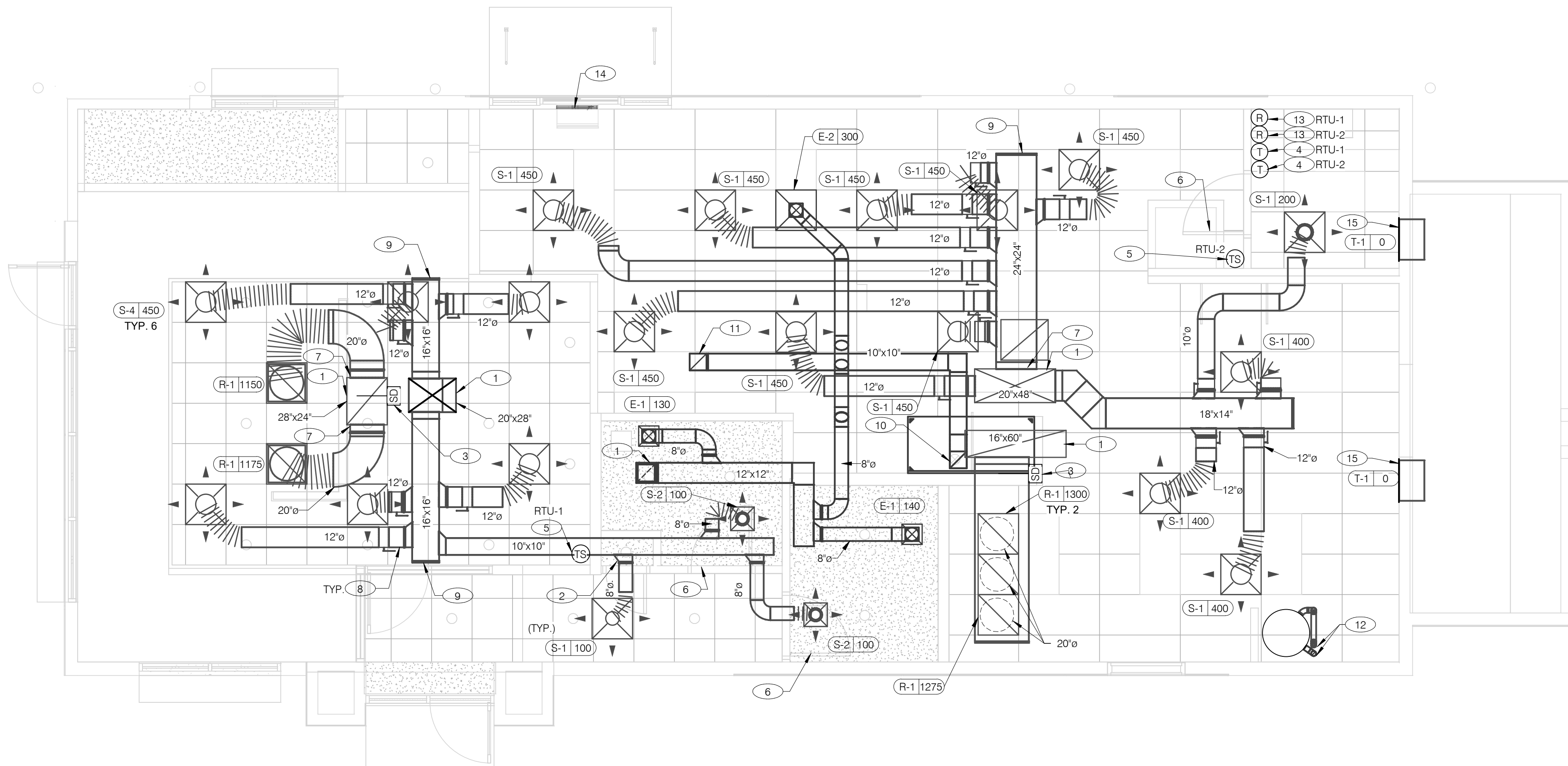
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BROWNSTOWN, MI 48183



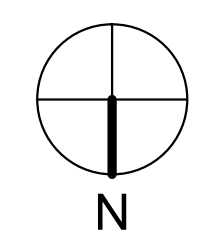
ENDEAVOR 2.0 MECHANICAL SCHEDULES AND NOTES

M1.0

PLOT DATE: 3/9/2022 10:39:39 AM



COVER ALL HVAC DUCT SYSTEMS OPENINGS TO PROTECT FROM CONSTRUCTION DUST AND DEBRIS UNTIL CONSTRUCTION IS COMPLETE. IF HVAC SYSTEM IS OPERATED BEFORE CONSTRUCTION IS COMPLETE, PROVIDE MERV8 FILTERS AT ALL AIR INTAKES INSIDE THE BUILDING.



DATE	REMARKS
03.11.22	Issued for Construction

CONTRACT DATE:	06.22.21
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	315089
STORE NUMBER:	40164
PA/PM:	SM
DRAWN BY.:	TH
JOB NO.:	2019088.31

DUCT AND DIFFUSER PLAN 1/4" = 1'-0" **A**

1. DINING ROOM LIGHT FIXTURE LOCATIONS ARE CRITICAL. COORDINATE DUCTWORK LOCATIONS WITH LIGHTING AND STRUCTURAL.
2. THERMOSTATS SHALL BE PROGRAMMABLE THERMOSTAT WITH SUBBASE AND REMOTE TEMPERATURE SENSOR (PROVIDED WITH RTU PACKAGE).
3. HUMIDITY SENSOR APPLICATION IS VARIABLE PER SITE SPECIFIC CONDITIONS. REFER TO HVAC UNIT SCHEDULE FOR APPLICATION CONDITIONS.

1. AIR DUCT UP TO UNIT.
2. SEE DETAIL 4 ON DRAWING M4.0 FOR SUPPLY AIR TAKE-OFF TO CEILING DIFFUSERS AND GRILLES.
3. FACTORY INSTALLED SMOKE DETECTOR MOUNTED IN ROOFTOP UNIT.
4. LOCATE THERMOSTAT CONTROLS ON WALL IN OFFICE AT 48" A.F.F. COORDINATE LOCATION WITH LIGHT SWITCHES AND OTHER WALL MOUNTED ACCESSORIES. RUN 24 VAC POWER AND SIGNAL CONDUCTORS IN TWO (2) SEPARATE TWO (2) CONDUCTOR CABLES, 18 AWG.
5. MOUNT THERMOSTAT REMOTE SENSOR AT 60" ABOVE FINISHED FLOOR. CONNECT TO THERMOSTAT WITH 18 AWG 2 CONDUCTOR CABLE PER MANUFACTURER INSTALLATION INSTRUCTIONS. ENSURE THAT TEMPERATURE SENSOR IN DINING AREA IS NOT LOCATED ON TILE WALL.
6. UNDERCUT RESTROOM DOORS MINIMUM 3/4" FOR MAKE-UP AIR.
7. PROVIDE SHOE TAP AT CONNECTION TO DUCT DROP FROM ROOFTOP UNIT.
8. RUN DUCT THROUGH OPEN WEBBING OF ROOF TRUSSES (WHERE POSSIBLE). COORDINATE WITH TRUSS DESIGN PRIOR TO DUCTWORK FABRICATION.
9. RUN DUCTWORK BETWEEN TRUSSES AS HIGH AS POSSIBLE UNDER ROOF JOISTS.
10. 10"x10" EXHAUST AIR DUCT DOWN AND TRANSITION TO FIELD CUT EXHAUST CONNECTION AT HOOD.
11. EXHAUST DUCT SHALL RUN BETWEEN ROOF JOISTS TO CONNECT TO ROOF EXHAUST FAN EF-1. SEE HOOD DETAILS ON DRAWING M3.0. SEE DETAIL 10 ON SHEET M4.0 FOR FIRE PROTECTION OF DUCT WORK. SEE DETAIL 11 ON SHEET M4.0 FOR EXHAUST DUCT TRANSITION.
12. PROVIDE 3" PVC WATER HEATER INTAKE AND FLUE VENT. TERMINATION ON ROOF. COORDINATE WORK WITH ALL TRADES.
13. PROVIDE SMOKE DETECTOR RESET SWITCH WITH KEY. RESET SWITCH SHALL BE "SYSTEM SENSOR" MODEL # RT5151 KEY. MOUNT NEXT TO THERMOSTATS @ 48" A.F.F. - INSTALL PER MANUFACTURER'S REQUIREMENTS.
14. PROVIDE AIR CURTAIN IN LOCATION AS SHOWN ON PLAN. MOUNT AIR CURTAIN ON MULLION DIRECTLY ABOVE SERVICE OPENING DOORS AT DRIVE-THRU WINDOW. AIR CURTAIN SHALL BE BERNER MODEL DTU03-2026A, WITH 120/1/60 POWER CONNECTION. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR MORE DETAILS.
15. TRANSFER AIR GRILLE MOUNTED ABOVE CEILING TO ALLOW TRANSFER AIR TO PREVENT FREEZING ABOVE WALK-IN COOLER/FREEZER. COORDINATE IN FIELD WITH OTHER TRADES TO ENSURE NO OBSTRUCTIONS.

GENERAL NOTES - MECHANICAL NTS **C**

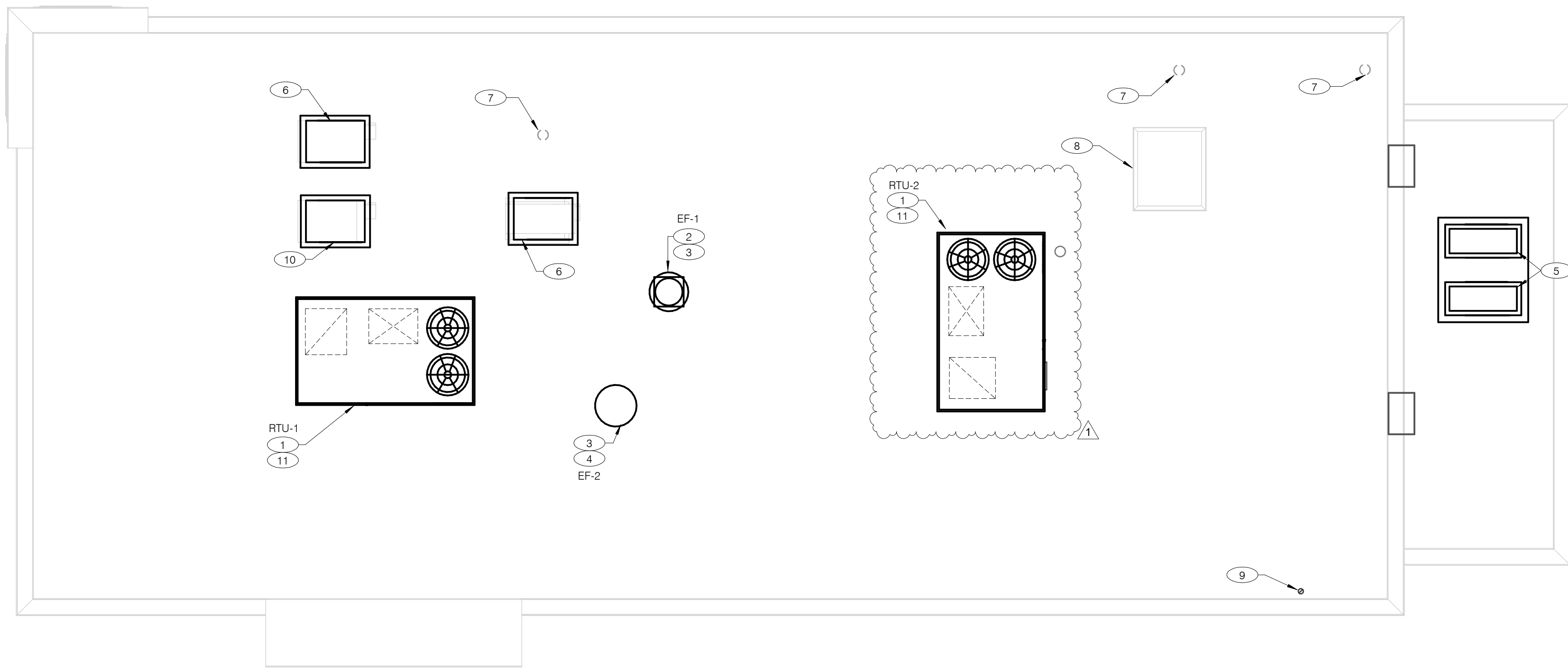
KEYNOTES - DUCT AND DIFFUSER NTS **B**

TACO BELL
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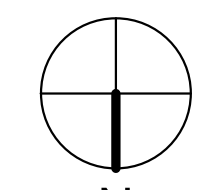


**ENDEAVOR 2.0
DUCT AND
DIFFUSER PLAN**

M2.0



COVER ALL HVAC DUCT SYSTEMS OPENINGS TO PROTECT FROM CONSTRUCTION DUST AND DEBRIS UNTIL CONSTRUCTION IS COMPLETE. IF HVAC SYSTEM IS OPERATED BEFORE CONSTRUCTION IS COMPLETE, PROVIDE MERV8 FILTERS AT ALL AIR INTAKES INSIDE THE BUILDING.



MECHANICAL ROOF PLAN 1/4" = 1'-0" **A**

- 1 PROVIDE RTU IN LOCATION AS SHOWN ON PLANS. COORDINATE EXACT RTU LOCATION AND DUCT DROPS WITH STRUCTURAL TRUSS LAYOUT. MAINTAIN MINIMUM 10'-0" CLEARANCE BETWEEN OUTSIDE AIR INTAKES AND EXHAUST TERMINATIONS.
- 2 PROVIDE TYPE I EXHAUST FAN IN LOCATION AS SHOWN PLANS. CONNECT 10"x10" EXHAUST DUCT FROM EXHAUST HOOD UP TO EF-1 ON ROOF. COORDINATION EXHAUST DUCT ROUTING WITH STRUCTURAL TRUSS LAYOUT.
- 3 COORDINATE EXHAUST FAN LOCATION WITH ROOFTOP UNIT. MAINTAIN ROOFTOP UNIT MANUFACTURER'S REQUIRED CLEARANCE AND MINIMUM 10 FT TO ROOFTOP UNIT'S OUTSIDE AIR INTAKE.
- 4 PROVIDE EXHAUST FAN IN LOCATION AS SHOWN PLANS. CONNECT 10"x10" EXHAUST DUCT FROM RESTROOM EXHAUST GRILLES TO EF-2 ON ROOF. COORDINATION EXHAUST DUCT ROUTING WITH STRUCTURAL TRUSS LAYOUT.
- 5 CONDENSING UNIT SERVING WALK-IN COOLER/FREEZER. COORDINATE EXACT LOCATION WITH ROOF LAYOUT. CONTRACTOR TO FIELD VERIFY EXACT REFRIGERANT PIPING. PROVIDE ALL NECESSARY PIPING ACCESSORIES INCLUDING PIPING INSULATION AND INSTALL ON APPROPRIATE EQUIPMENT SUPPORTS.
- 6 CONDENSING UNIT SERVING ICE MAKER. COORDINATE EXACT LOCATION WITH ROOF LAYOUT. CONTRACTOR TO FIELD VERIFY EXACT REFRIGERANT PIPING. PROVIDE ALL NECESSARY PIPING ACCESSORIES INCLUDING PIPING INSULATION AND INSTALL ON APPROPRIATE EQUIPMENT SUPPORTS.
- 7 PLUMBING VENT. REFERENCE 1/P2.0.
- 8 ROOF HATCH. REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.
- 9 PROVIDE MANUFACTURER'S CONCENTRIC TERMINATION VENT KIT SERVING HOT WATER HEATER BELOW. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. ENSURE AT LEAST 10'-0" DISTANCE BETWEEN OUTDOOR AIR INTAKES.
- 10 CONDENSING UNIT SERVING FROZEN BEVERAGE MACHINE. COORDINATE EXACT LOCATION WITH ROOF LAYOUT. FIELD VERIFY EXACT REFRIGERANT PIPING. PROVIDE ALL NECESSARY PIPING ACCESSORIES INCLUDING PIPING INSULATION AND INSTALL ON APPROPRIATE EQUIPMENT SUPPORTS.
- 11 ALL UTILITY PIPING FOR RTUS SHALL RUN UP THROUGH ROOF INSIDE EACH UNIT'S ROOF CURB.

DATE	REMARKS
09.17.21	Health Comments
03.11.22	Issued for Construction

CONTRACT DATE: 06.22.21
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**ENDEAVOR 2.0
 MECHANICAL
 ROOF PLAN**

M2.1

PLOT DATE: 3/9/2022 10:39:42 AM

KEYNOTES - MECHANICAL ROOF PLAN NTS **B**

STRATOVENT MODEL# SVDU50HFA

TAG	HOOD	STRATOVENT MODEL #	CFM	ESP	RPM	H.P.	B.H.P.	Ø	VOLT	FLA	MCANOP	WEIGHT (LBS)	SONES
EF-1	FRYER	SVDU50HFA	1050	0.9"	1429	0.50	0.33	1	115	8.4	19.5/15	85/40	14.5

SELECTOR OPTIONS

- RESTAURANT MODEL
- ULTRV. GREASE RATED
- DIRECT DRIVE
- SPEED CONTROLLER
- WEATHERPROOF DISCONNECT
- FLAT CURB, VENTED
- FACTORY ATTACHED HINGES

ATTENTION!
INSTALLER MUST READ LABEL NEAR DISCONNECT SWITCH. MESSAGE ON LABEL. INSTALLER SHOULD SUPPLY ENOUGH ELECTRICAL CORD TO ALLOW FAN TO MAKE COMPLETE SWIRL.

STRATOVENT
CALIFORNIA-OKLAHOMA-NORTH CAROLINA
PH: 919-573-4250
FEEDBACK@STRATOVENT.COM

REVISED: 10-10-2018

HOOD EXHAUST FAN DETAIL NTS **7**

INSTALLATION: DUCT TEMPERATURE SWITCH

NOTE: IF SENSOR IS FIELD INSTALLED, THE KIT SHIPS WITH UL-LISTED QUICK SEALS MUST BE USED TO SEAL ANY HOOD OR DUCT PENETRATIONS (SEE EXPLODED PARTS VIEW).

INSTALLATION: DUCT TEMPERATURE SENSOR

SENSOR DETAIL

(1) NORMALLY OPEN DRY CONTACT, CLOSING ON TEMPERATURE RISE ABOVE 85F. WIRED IN PARALLEL TO NORMAL CONTROL CIRCUIT. WHEN ORDERED, SENSOR IS FACTORY INSTALLED IN HOOD CAVITY WITH J-BOX ON TOP OF THE HOOD.
(2) DO NOT USE SENSOR AS THE PRIMARY MEANS OF FAN CONTROL. USED ONLY AS A SAFETY DEVICE PER INTERNATIONAL MECHANICAL CODE TO ENERGIZE HOOD EXHAUST FAN WHEN COOKING EQUIPMENT GENERATES HEAT.
(3) FAN CONTACTOR AND CONTROLS BY OTHERS, SEE ELECTRICAL SHEETS FOR DETAILS.
(4) SEE SPECS ABOVE FOR TEMP SET POINT ADJUSTMENT

NOTE: GENERIC WIRING DEPICTION. SEE PLANS FOR PROPER INTEGRATION.

HEAT SENSOR ATTACHMENT

STRATOVENT

ADDITIONAL QUESTIONS??
CONTACT, STRATOVENT VENTILATION HOODS,
919-573-4250 - 251-490-6114
JEFF.JOHNSON@STRATOVENT.COM

MODIFIED: 04-11-2020

HEAT SENSOR ATTACHMENT NTS **5**

HOOD #	1 OF 1	MODEL #	STRATOVENT SVD2
LENGTH (IN):	6'-3"	WIDTH (IN):	36"
HEIGHT (IN):	14H		
EXHAUST CFM:	1050	SUPPLY CFM:	BY RTU-SEE M1.0
EXHAUST SP:	0.9" (HOOD+DUCT)	SUPPLY SP:	NA
EXHAUST FPM:	1512	SUPPLY FPM:	NA
EXH. SIZE:	10"X10"	SUP SIZE:	NA
FILTERS: (4)	16" X 16"	HOOD WEIGHT:	300 LBS
FIRE SUPPRESSION:	ANSUL-R102	FILTER TYPE:	STAINLESS BAFFLE
LIGHT QTY: (3)	A19/ CFL	CONTROL SWITCH:	BY OTHERS

DESIGN NOTES:

- STRATOVENT HOODS ARE ETL LISTED TO UL-710 STANDARDS, 3054804-001
- MODEL SVD2 IS A NON-CANOPY HOOD, "LISTED" VALUES ARE UTILIZED FOR AIRFLOW, OVERHANGS AND TEMPERATURE RATINGS.
- 18/20 GAUGE MINIMUM S/S ON EXPOSED SURFACES PER NFPA.
- HOOD IS PRE-PIPPED FOR ANSUL R102, FIELD HOOKUP BY OTHERS.
- INSTALLER TO REVIEW ELECTRICAL SHEETS FOR HOOD AND FAN WIRING.
- STRATOVENT DOES NOT PROVIDE A CONTROL BOX IN THE "BASE" PACKAGE.

FRONT VIEW

25" TALL DUCT ENCLOSURE PANELS, FRONT, LEFT & RIGHT SIDES (PROVIDED WITH HOOD, GC INSTALLED).

TOP EDGE OF HOOD.

LOWER, LEADING EDGE OF HOOD, 71" ABOVE FINISHED FLOOR.

END PANELS, PROVIDED BY STRATOVENT. SEE SIDE VIEW DETAIL FIELD INSTALLED BY GC.

106"H X 95"L, BACKSPASH, COVERING REAR WALL AND 18" BEYOND THE HOOD. ADJUST SIZE TO SUIT SITE CONDITIONS. MINIMUM 20 GA. STAINLESS STEEL PROVIDED BY HOOD VENDOR.

3" INTEGRAL REAR STAND-OFF. FACTORY INSULATED. HOOD ASSEMBLY IS LISTED AND LABELED FOR ZERO CLEARANCE TO COMBUSTIBLE IN THE REAR. ARCHITECT MUST VERIFY COMPLIANCE WITH ALL LOCAL CODES CONCERNING CLEARANCES.

HOOD DETAIL 1: CORNER HANGING ANGLE (4) TYPICAL. HANGING ANGLE MUST BE SUPPORTED WITH 1/2" X 1/2" TRUSS ANCHORS AND CEILING ANCHOR POINTS WITH 1/2" X 1/2" MINIMUM GAUGE STEEL BRACKETS. NUTS AS SHOWN MUST USE DOUBLED HEX NUTS TO SECURE HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MOUNTAIN TOP OF EXPOSED THREADS BEHIND BOTTOM HEX NUT THROUGH ALL WEAPONS TO FIT USE.

HOOD DETAIL 2: TIMER MOUNTING CHANNEL - POWER OUTLET. DUAL POWER OUTLET, 115V/1PH (30A TE ON TOP OF HOOD).

TOP OF S/S BACKSPASH, SLIGHTLY ABOVE DROP CEILING.

8'-10" HIGH, DROP CEILING (TYPICAL). HOOD PROVIDER MUST BE NOTIFIED IF CEILING HEIGHT VARIES TO ADJUST TRIM HEIGHT. VERIFY WITH ARCHITECTURAL SHEETS.

HOOD DETAIL 2: 30"L X 3"H, FACTORY ATTACHED MOUNTING CHANNEL FOR CUSTOMER SUPPLIED TIMERS. DUAL 115V/1PH OUTLET FACE MOUNTED ABOVE CHANNEL WITH J-BOX ON TOP OF HOOD.

STRATOVENT
REDDING, CA - RALEIGH, NC
800-474-0037 - WWW.STRATOVENT.COM - 251-490-6114

UL/LC-710 Standard (NSF-ANSI Standard 2) NFPA
ETL-LISTED FILE #9054804-001 / TESTED TO UL-710

UPDATED: 6FT-3IN LONG VERSION, 04-11-2020

TACO BELL HOOD DETAIL NTS **2**

PROJECT: TACO BELL

System Size: ANSUL-3.0 Gallons Total, R102
Flow Points: 8 Design, 11 (max)

Hood #1: 6'-3" L x 36" W x 14" H
Exhaust Riser Size: 10" x 10"

NOTES

- FIELD PIPE DROPS AS SHOWN: SLEEVING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY STRATOVENT FOR HOOD-BASED PIPING.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED.
- MAXIMUM 9 ELBOWS IN SUPPLY LINE, MINIMUM 72 INCHES OF AGENT LINE FROM TANK TO FIRST NOZZLE.
- ALL NOZZLE HEIGHT AND PLACEMENT TO BE DETERMINED BY INSTALLER AND AHJ PER ANSUL GUIDELINES.
- ALL PIPING TO BE 3/8" SCH 40 BLACK IRON.
- THIS FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.
- SYSTEM INSTALLATION AND FINAL HOOKUP SOURCED BY GEN CONTRACTOR. SYSTEM PARTS OPTIONALLY PURCHASED FROM STRATOVENT BY OWNER OR GC.

LEGEND - WALL MOUNTED ANSUL SYSTEM

1B	3.0 GALLON TANK
2	AUTOMAN RELEASE
5	ANSULEX LIQUID AGENT (3.0 GAL.)
7	CARTRIDGE (101-20)
10	TEST LINK
11	DOUBLE MICROSWITCH
1W	NOZZLE ASSEMBLY (419336)
1N	NOZZLE ASSEMBLY (419335)
3N	NOZZLE ASSEMBLY (419338)
28	DETECTOR BRACKET
30	HIGH TEMP FUSIBLE LINK
MGV	MECHANICAL GAS VALVE
34	REMOTE MANUAL PULL STATION
S	SWIVEL ADAPTOR

DESIGN NOTE:

1) ABOVE DEPICTION SHOWS DUAL FRYERS ON RIGHT END OF THE HOOD. HOOD SUPPLIER WILL VERIFY EQUIP LAYOUT PER PLANS AND PLACE FRYER NOZZLES ON THE LEFT END WHEN APPROPRIATE TO SUIT SITE CONDITIONS

STRATOVENT

TACO BELL HOOD FIRE SUPPRESSION SYSTEM PLAN 12" = 1'-0" **6**

HOOD NOTES AND SPECS (TYP.)

- Hoods shall be constructed of minimum 20 gauge stainless steel with # 3 grade. All attachment surfaces shall be constructed of minimum 18 gauge aluminum steel.
- UL listed stainless steel or stainless steel/ultra type filters shall be easily removable for cleaning. Filter housing shall be made of a painted grease proof that drains into a removable stainless steel grease cup.
- UL listed and NSF approved upper panel incandescence light fixtures permitted to function low at top of hood in accordance with NEC 710.
- Pre-wired fire suppression systems shall be located on the top of the hood and provided with the hood by a certified technician. Field location of all nozzles and fire suppression drops to be locally approved and approved.
- Hoods shall be fabricated in accordance with NFPA Bulletin #96 and shall have the NSF Seal of Approval. Hoods shall be listed under UL 710 EXHAUST HOODS FOR COMMERCIAL COOKING EQUIPMENT, certified by ETL under File # 3054804-001.
- Hoods shall be fabricated in accordance with NFPA Bulletin #96 and shall have the NSF Seal of Approval. Hoods shall be listed under UL 710 EXHAUST HOODS FOR COMMERCIAL COOKING EQUIPMENT, certified by ETL under File # 3054804-001.

THIS HOOD DESIGN IS BASED UPON STRATOVENT, MODEL SVD2. MANUFACTURED BY: STRATOVENT VENTILATION HOODS RALEIGH, NC 27616 CONTACT: JEFF JOHNSON, 251-490-6114

STRATOVENT

STRATOVENT-BRAND HOODS ARE CERTIFIED BY ETL-INTERTEK TO NATIONALLY RECOGNIZED UL-710 AND NSF STANDARDS.

CONTACT US:
WWW.STRATOVENT.COM
919-573-4250
FEEDBACK@STRATOVENT.COM

HOOD ISOMETRIC 12" = 1'-0" **3**

LOW-PROFILE HOOD HOOD #1

STRATOVENT HOODS BUILT IN COMPLIANCE WITH:

- UL STANDARD #2
- UL STANDARD 710
- ETL FILE NO. 3054804-001

NON-CANOPY HOOD DESIGN BASED ON:

MANUFACTURER: STRATOVENT, MODEL SVD2
ETL LISTED UL/LC-710, ULC-S646: # 3054804-001
MIN. "LISTED" AIRFLOW: 150 CFM PER LINEAR FEET
DESIGN AIRFLOW: 168 CFM PER LINEAR FT
MAX. DIST. ABOVE COOK SURFACE: 47"
MAX. COOK SURFACE FRONT UNDERHANG: -3"
MIN. SIDE COOK SURFACE OVERHANG: 0"
MAX. APPLIANCE COOKING TEMPERATURE: 450 F

HOOD DESIGN QUESTIONS?
STRATOVENT KITCHEN VENTILATION
PHONE: 251.490.6114
JEFF.JOHNSON@STRATOVENT.COM

STRATOVENT

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919-573-4250
FEEDBACK@STRATOVENT.COM

TACO BELL HOOD SECTION 12" = 1'-0" **1**

DATE	REMARKS
03.11.22	Issued for Construction

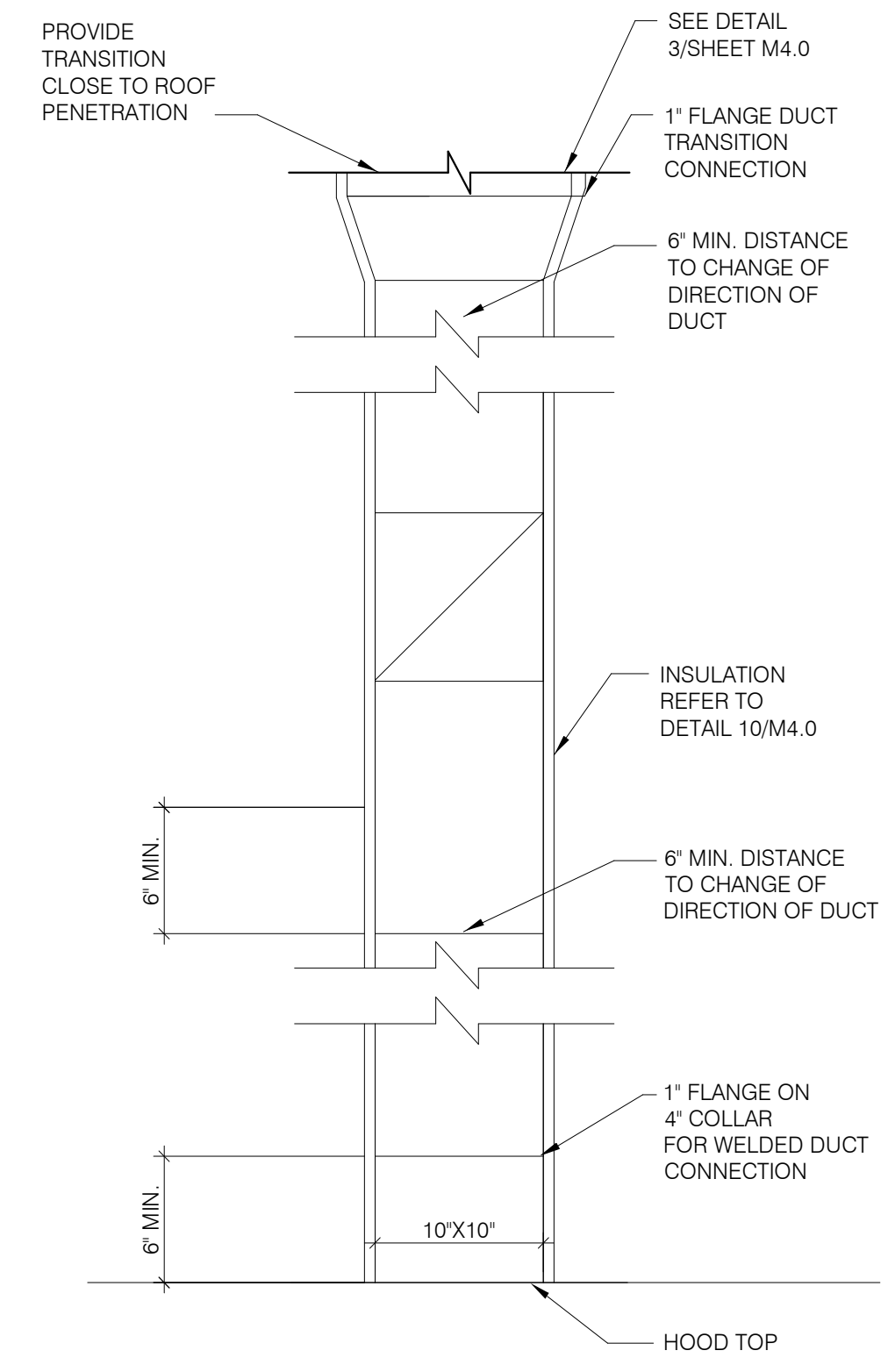
CONTRACT DATE: 06.22.21
BUILDING TYPE: END, MED40
PLAN VERSION: MARCH 2020
BRAND DESIGNER: DICKSON
SITE NUMBER: 315089
STORE NUMBER: 40164
PA/PM: SM
DRAWN BY: TH
JOB NO.: 2019088.31

TACO BELL
18708 TELEGRAPH ROAD
BROWNSTOWN, MI 48183

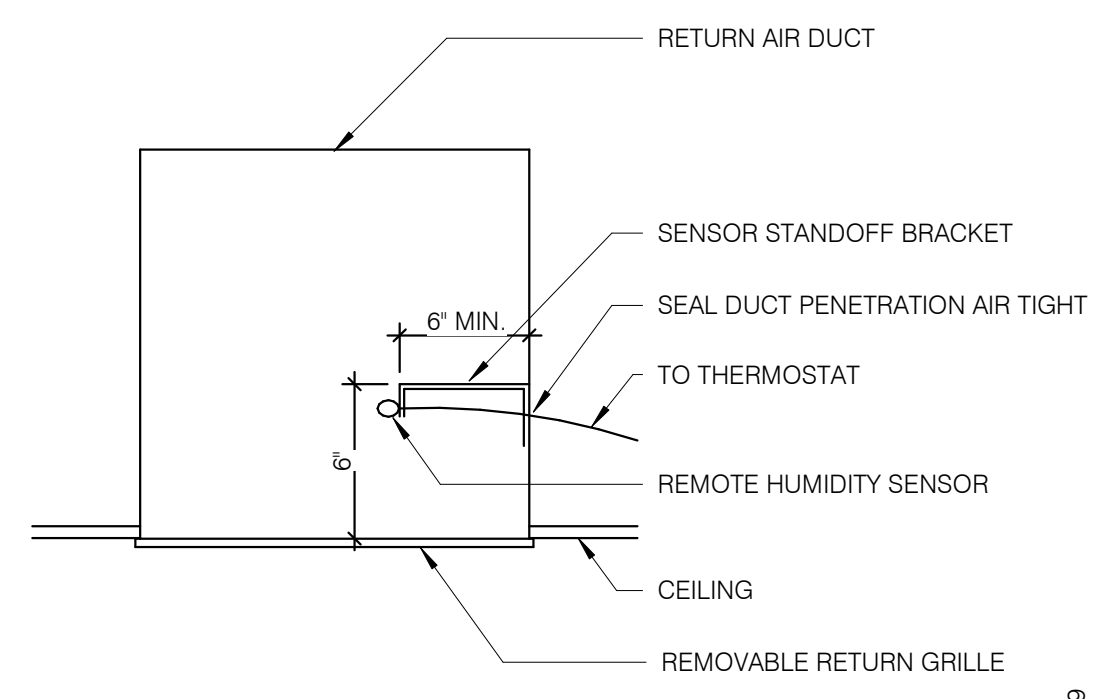


ENDEAVOR 1.0 HOOD DETAILS AND SECTIONS

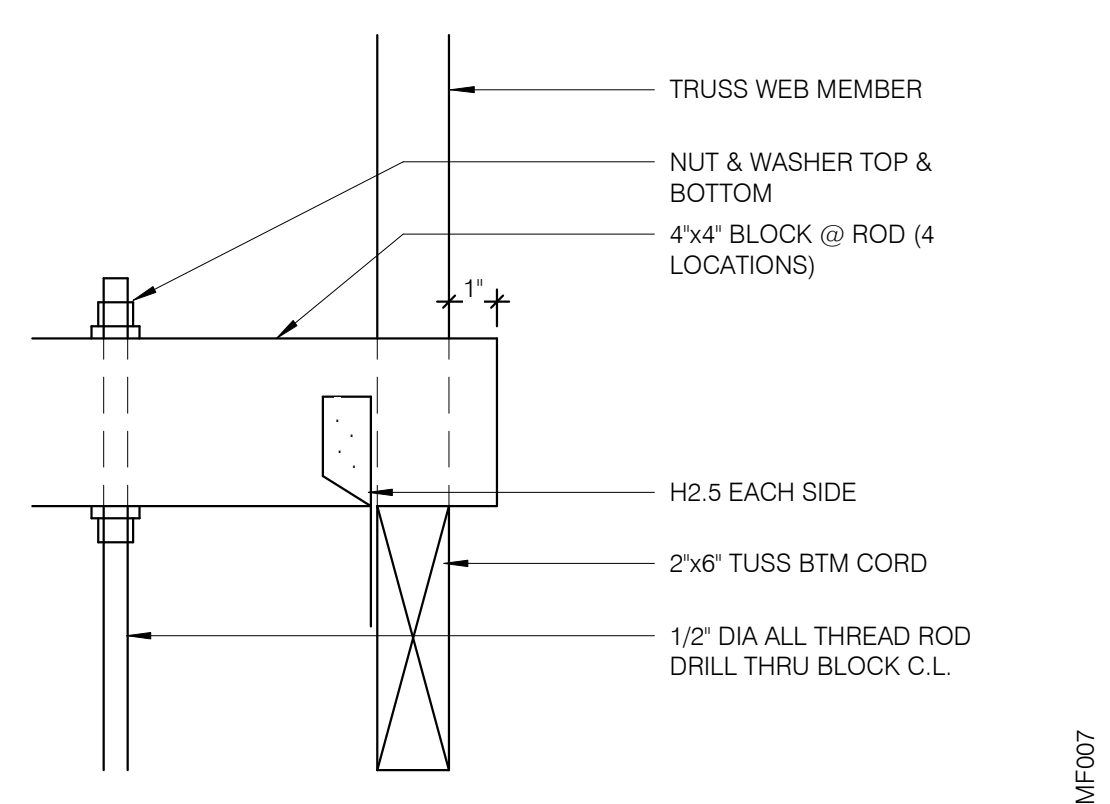
M3.0



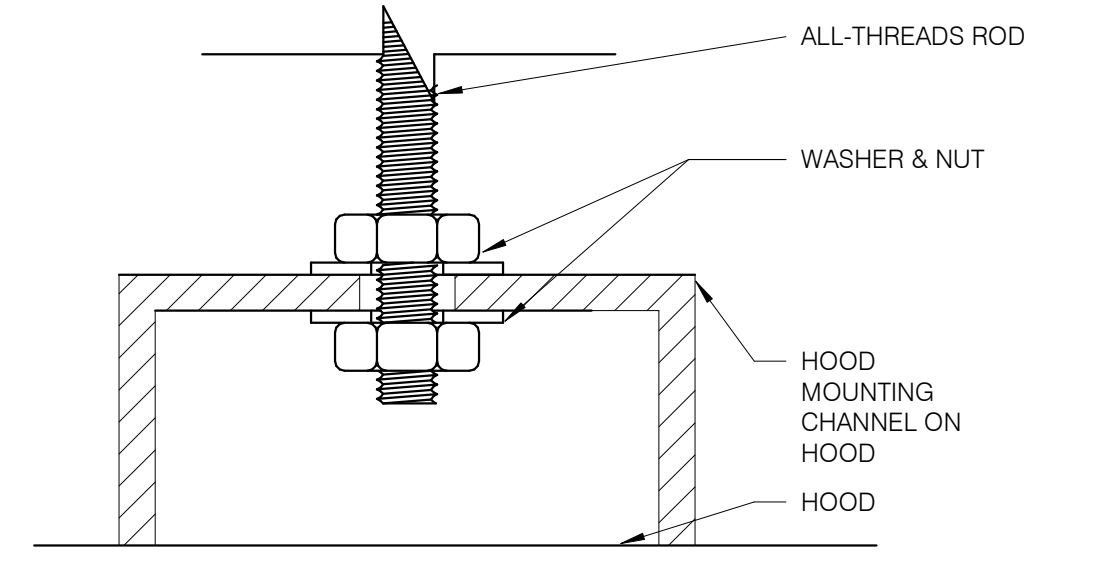
TB HOOD DUCT TRANSITION NTS **11**



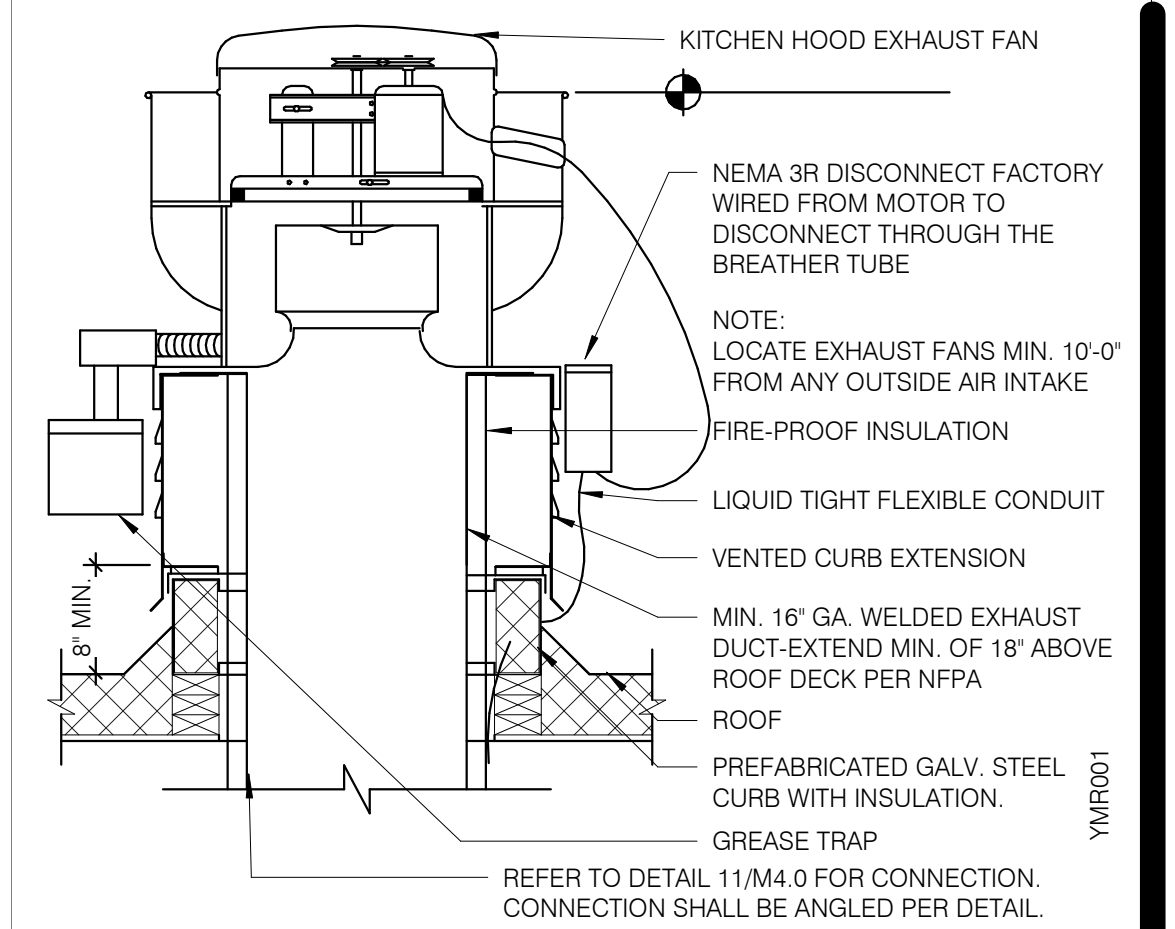
REMOTE HUMIDITY SENSOR NTS **8**



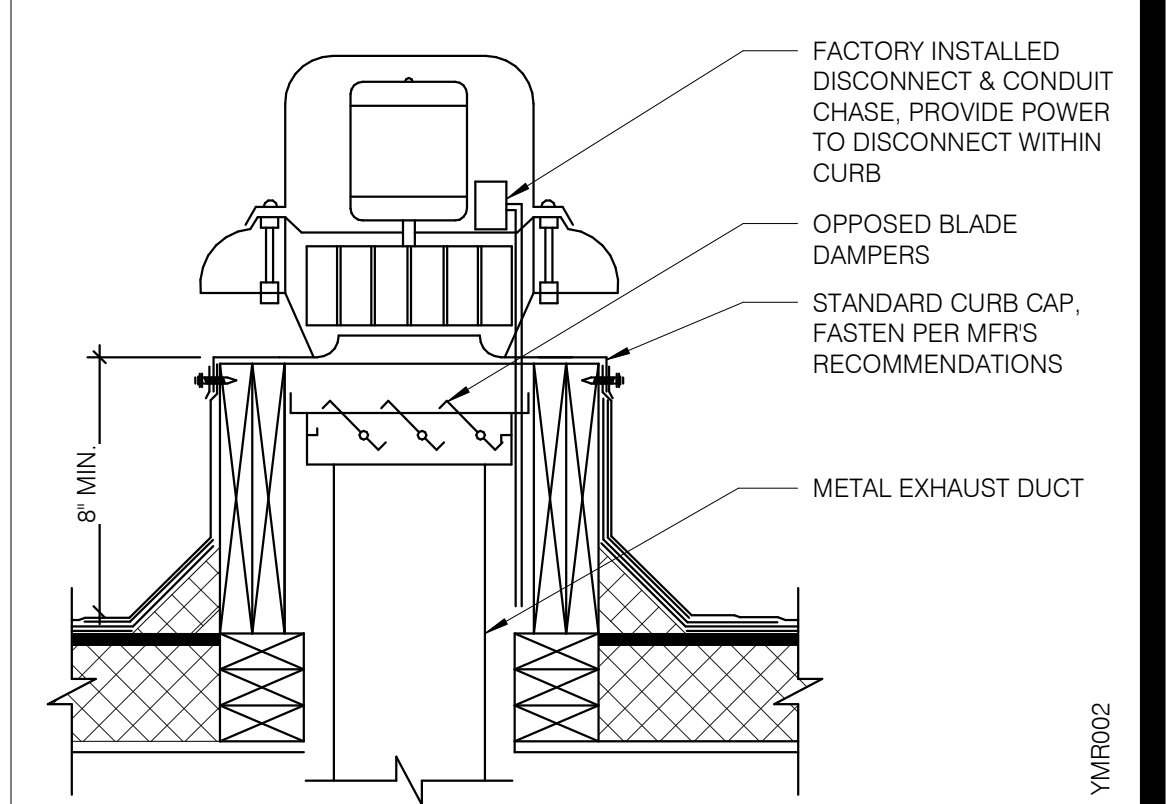
ROD ATTACHMENT NTS **7**



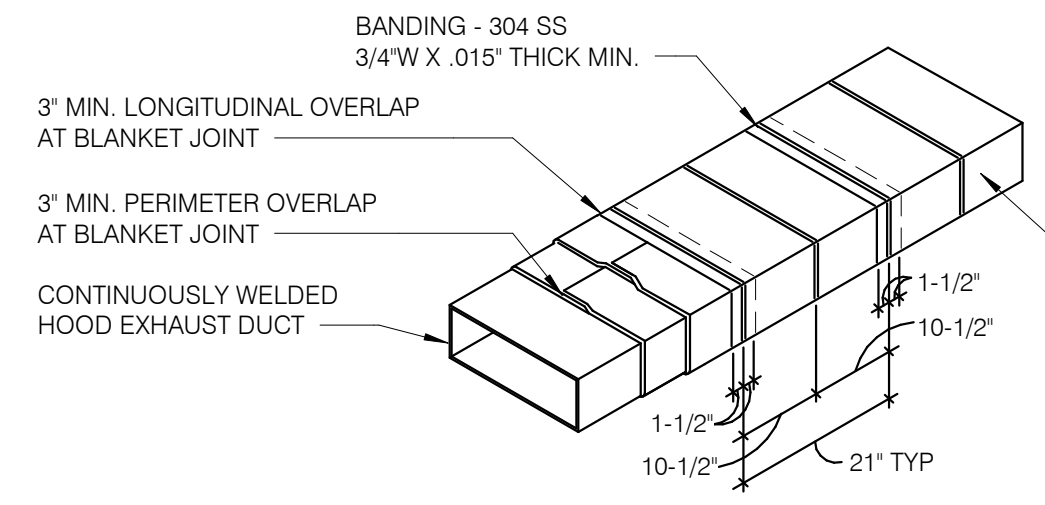
BOLT CONNECTION TO HOOD NTS **5**



EXHAUST FAN (EF-1) NTS **3**

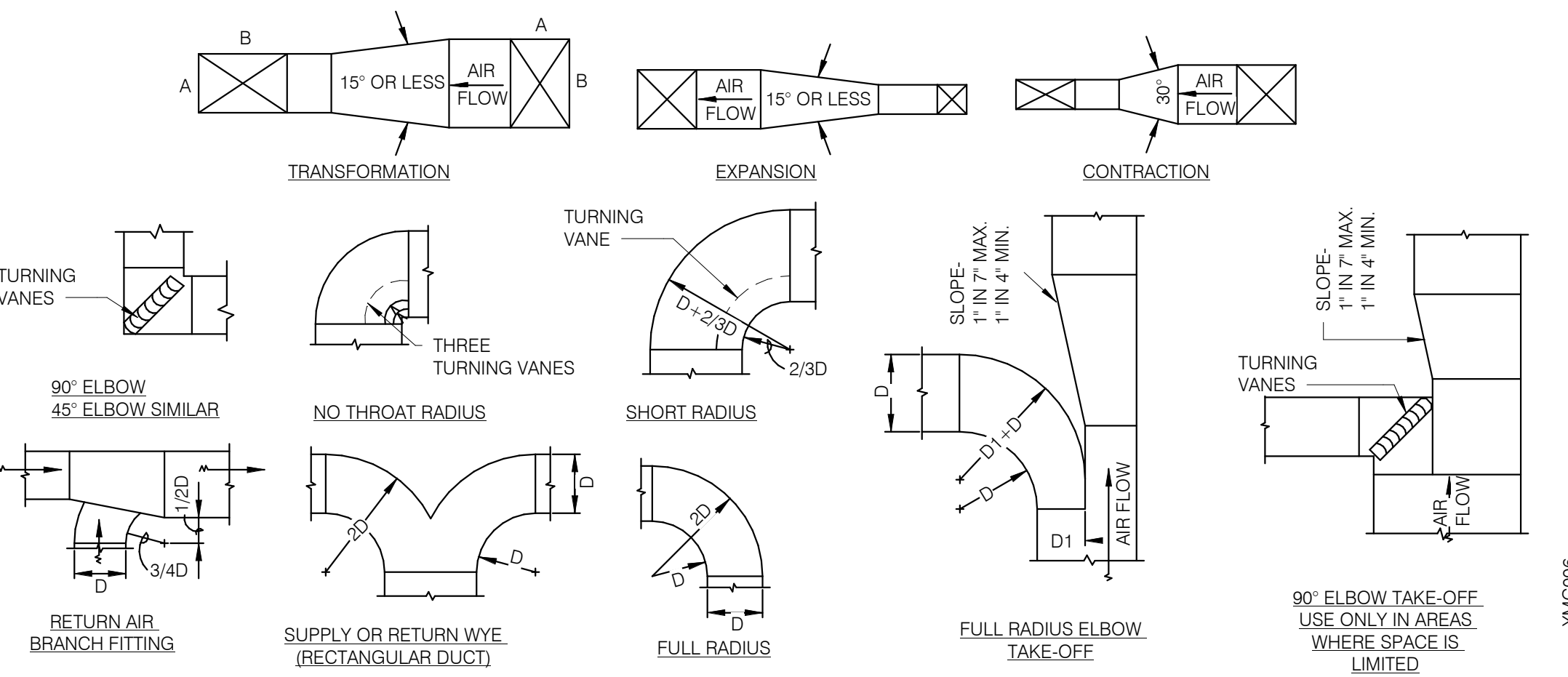


RESTROOM FAN (EF-2) NTS **2**

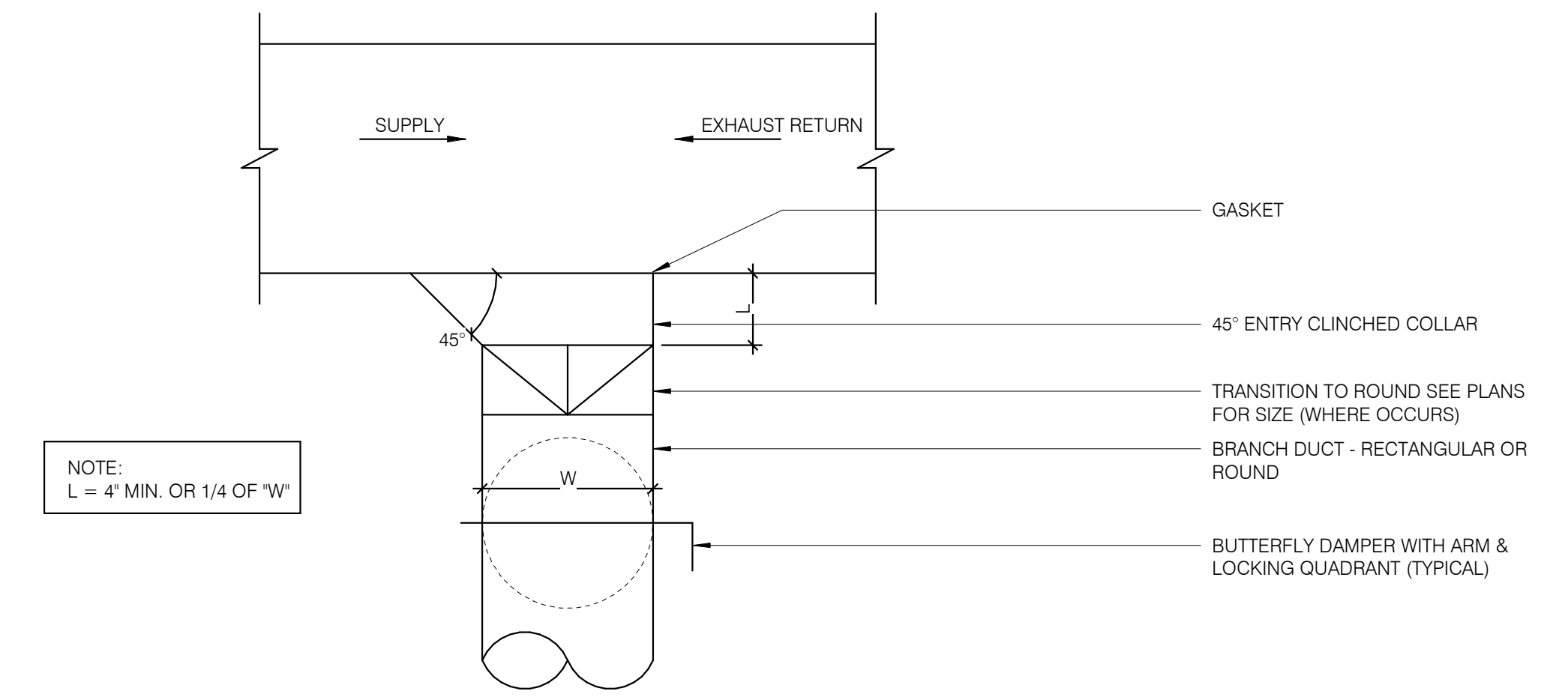


- NOTES:**
1. WRAP GREASE DUCT CONTINUOUS AS SHOWN FROM CONNECTION AT FAN THROUGH CURB AND EXTEND 18" MIN. BELOW ROOF DECK.
 2. FOR HORIZONTAL RUNS OF EXHAUST DUCTS PROVIDE TYPICAL TRAPEZE SUPPORT SYSTEM WITH 1/2" HANGER RODS A MAXIMUM OF 6' FROM INSULATION EDGE. TRAPEZE SUPPORTS SHALL BE SPACED A MAXIMUM OF 60" ON CENTER FROM CENTERLINE OF VERTICAL EXHAUST DUCT.
 3. SLOPE HORIZONTAL EXHAUST DUCT RUNS A MINIMUM OF 1/4" PER FOOT (2% SLOPE) TOWARDS EXHAUST HOOD.
 4. PROVIDE INSULATED ACCESS DOOR OR PANEL NEAR MID POINT OF EXHAUST DUCT RUN FOR CLEANING AND INSPECTION OF DUCT. PROVIDE AN APPROVED SIGN ON ACCESS DOOR OR PANEL WHICH READS 'ACCESS PANEL DO NOT OBSTRUCT.'

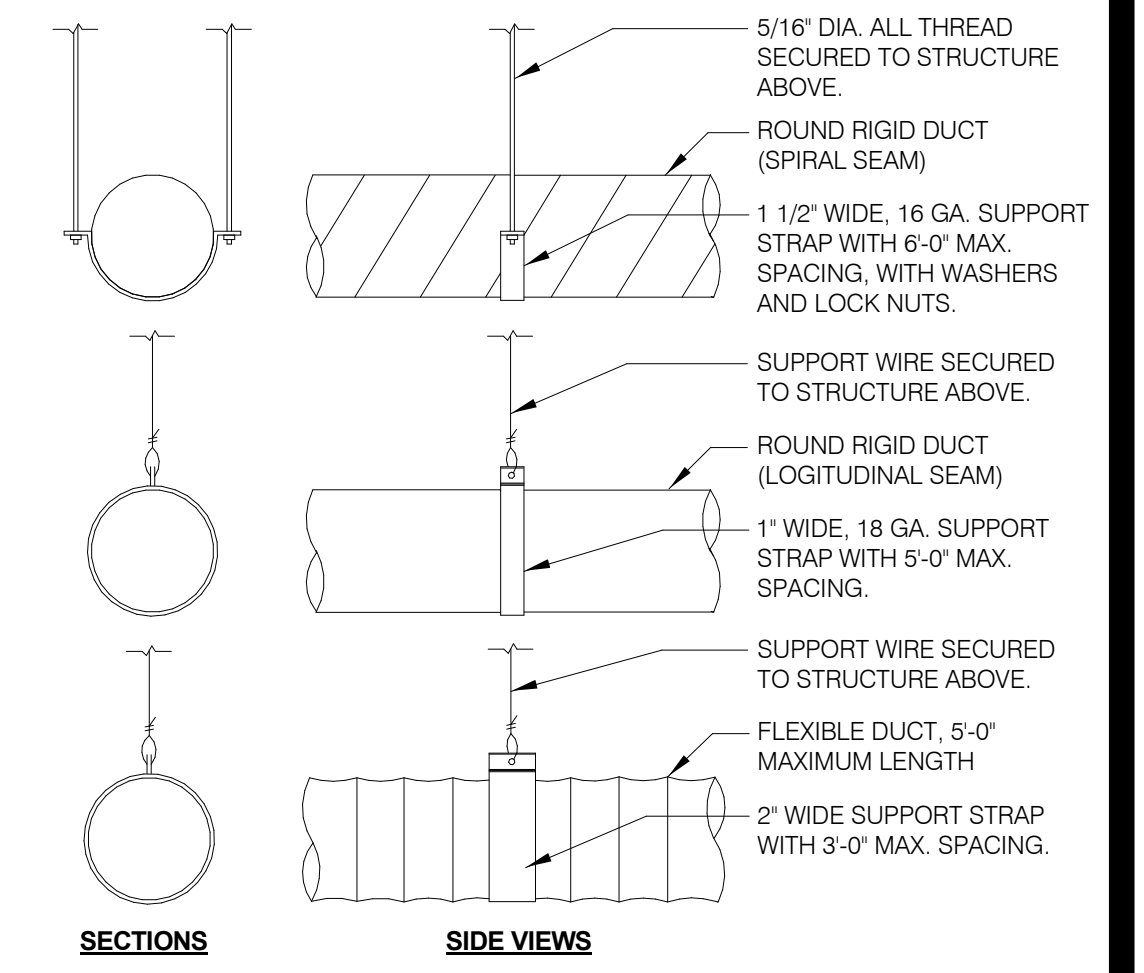
KITCHEN HOOD EXHAUST DUCT SYSTEM DETAIL NTS **10**



TYPICAL DUCTWORK DETAILS NTS **9**



CEILING DIFFUSER CONNECTIONS NTS **4**



DUCT SUPPORT DETAIL NTS **1**

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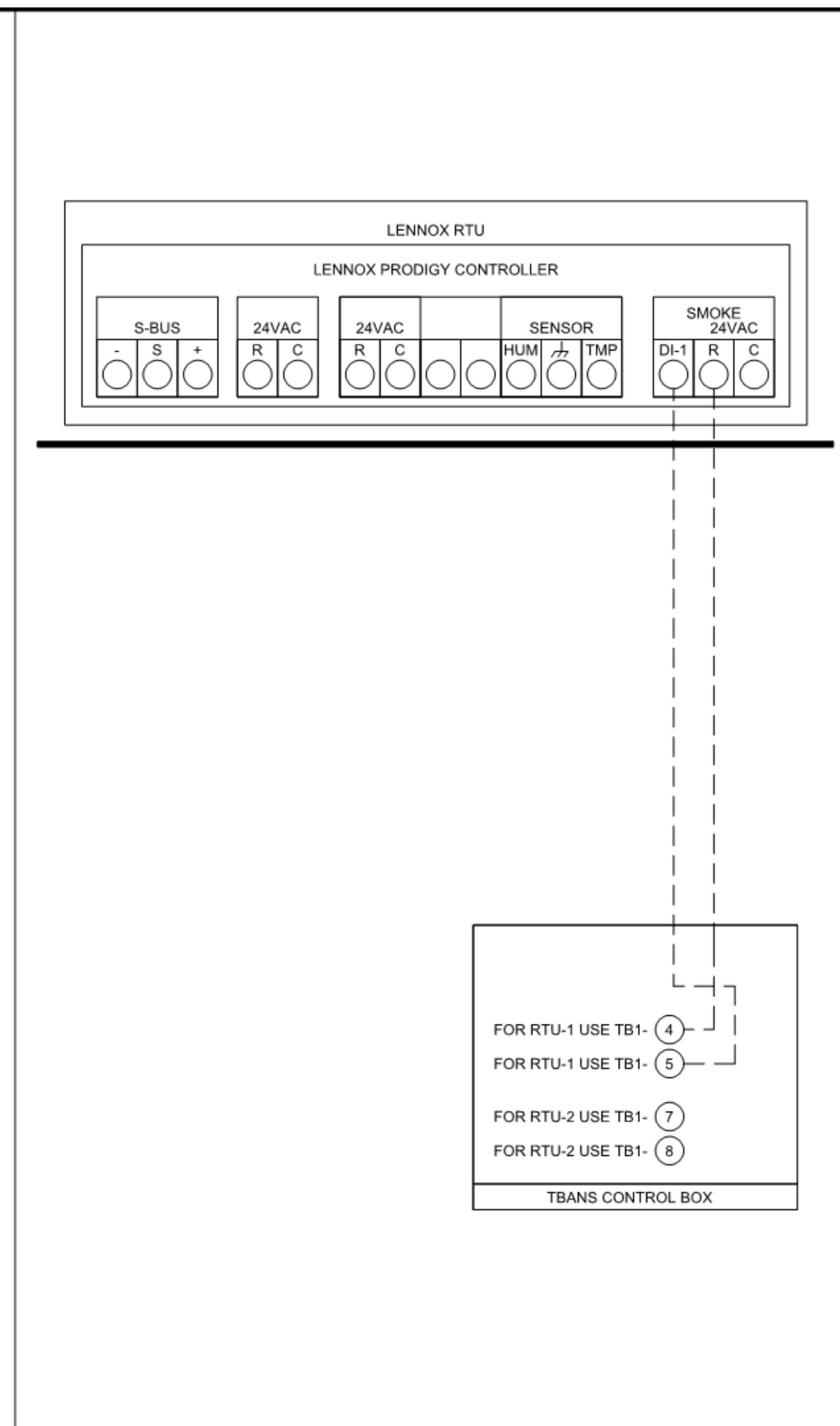
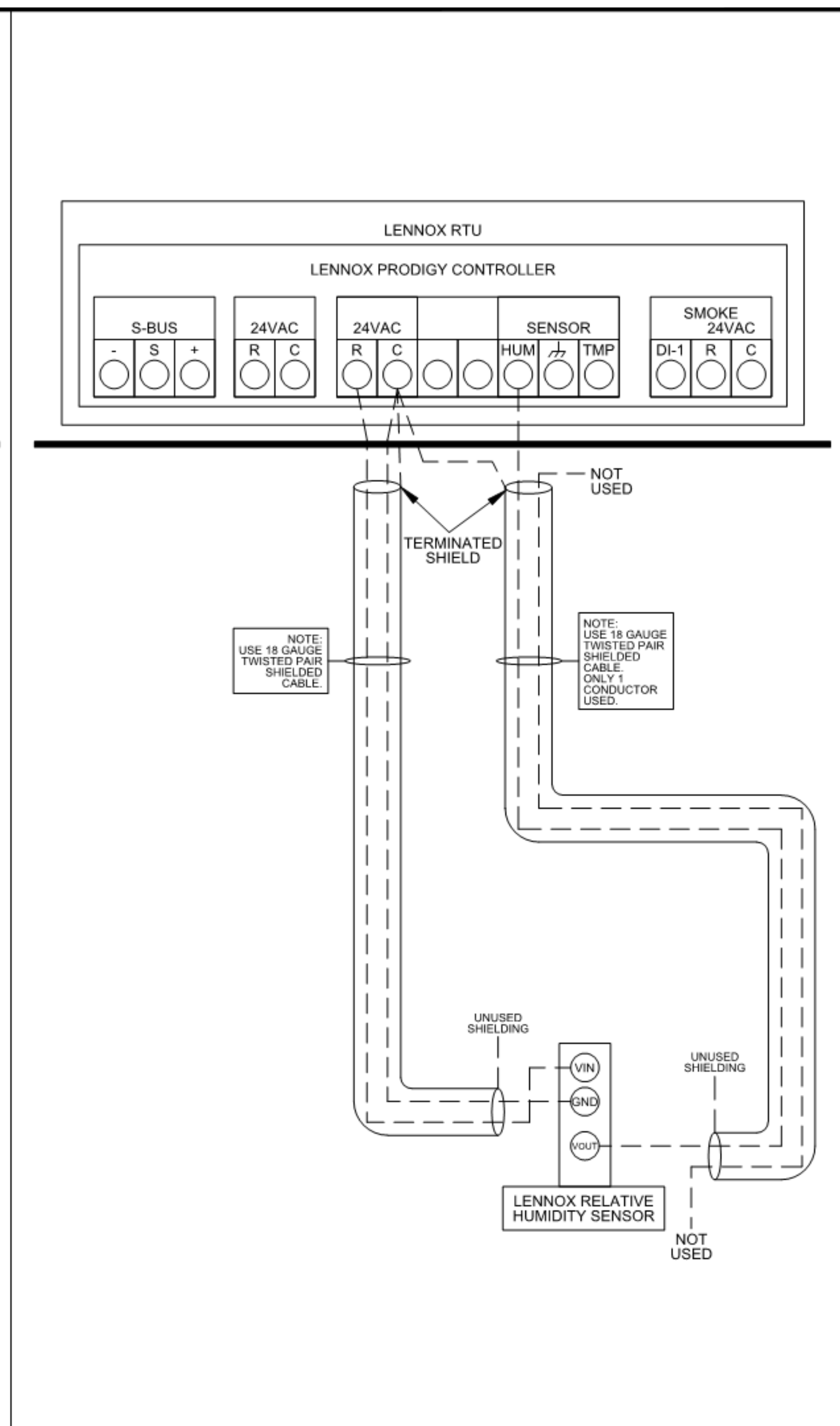
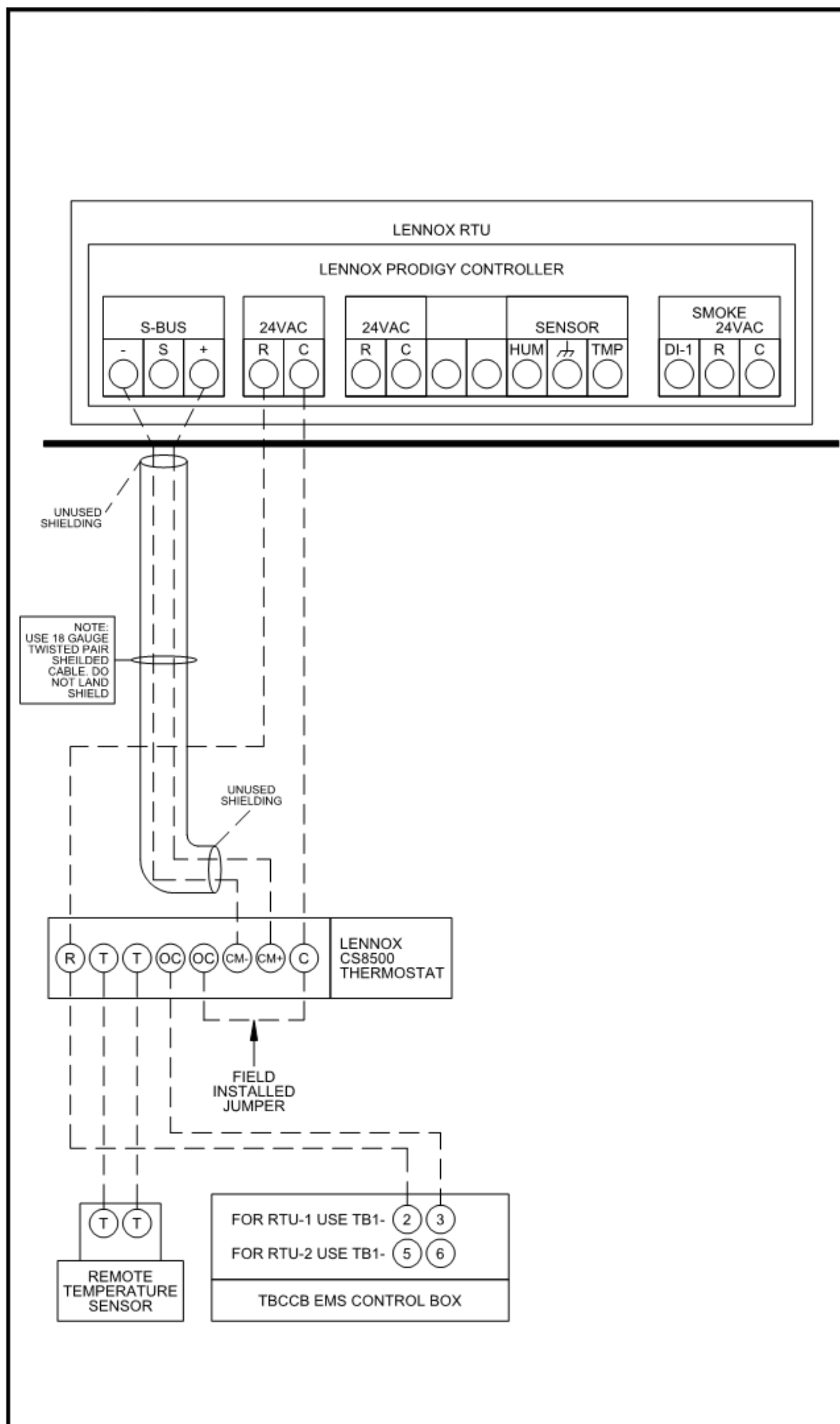
CONTRACT DATE: 06.22.21
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TACO BELL
18708 TELEGRAPH ROAD
BROWNSTOWN, MI 48183



ENDEAVOR 2.0 MECHANICAL DETAILS

M4.0



LENNOX RTU LOW VOLTAGE FIELD CONNECTIONS DETAIL

LENNOX LOW VOLTAGE CONNECTIONS

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ENDEAVOR 1.0 CONTROLS DETAILS

M5.0

1	LENNOX PRODIGY TO THERMOSTAT AND TO TBCCB CONNECTION	NTS	2	LENNOX PRODIGY TO OPTIONAL HUMIDITY SENSOR CONNECTION	NTS	3	LENNOX PRODIGY TO TBANS CONNECTION	NTS
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Rev	Date	Change

Job #: **T7647**
 Designed By: JL
 Drawing By: EM
 Approved By:
 Date: 08-07-20
 Sheet: 1 of 1



520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

- 1. SOIL AND WASTE PIPE SHALL SLOPE 2% MINIMUM, UNLESS OTHERWISE NOTED OR REQUIRED BY CODE.
2. ALL DRAWN WATER & GAS LINES SHALL BE KEPT TIGHT TO UNDERSIDE OF EQUIPMENT & SECURED IN PLACE.
3. VERIFY LOCATION OF SANITARY SEWER ON SITE PLAN AND REVISE SEWER SYSTEM AS REQUIRED.
4. PROVIDE TRAP PRIMERS FOR FLOOR DRAINS IN RESTROOMS, WHERE REQUIRED BY CODE. PROVIDE DEEP SEAL TRAPS FOR FLOOR DRAINS WITHOUT TRAP PRIMERS.
5. CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. COORDINATE ALL CLEANOUT LOCATIONS WITH EQUIPMENT, CABINETS, ETC. AND OWNERS REPRESENTATIVE PRIOR TO INSTALLATION.
6. VALVES, TRAP PRIMERS, WATER HAMMER ARRESTORS AND OTHER EQUIPMENT SHOWN IN WALLS OR ABOVE NON-ACCESSIBLE CEILING SHALL BE INSTALLED BEHIND AN ACCESS PANEL.
7. PLUMBING FIXTURE VENTS SHALL TERMINATE MINIMUM OF 12 INCHES FROM VERTICAL SURFACES AND 10 FEET FROM OUTSIDE AIR INTAKES.
8. PROVIDE GAS PIPING TO UNITS AND MAKE FINAL CONNECTIONS REQUIRED FOR OPERATION.
9. PROVIDE SHUT-OFF VALVES ON HOT & COLD WATER LINES TO FIXTURES AND APPLIANCES. ALL EXPOSED WATER AND WASTE LINES SHALL BE CHROME PLATED.
10. PROVIDE LEVER HANDLE GAS SHUT-OFF VALVE IN BRACH PIPING OF EACH APPLIANCE. INSTALL OWNER FURNISHED QUICK DISCONNECT, FLEXIBLE PIPE (IF ALLOWED BY CODE) AND RESTRAINING DEVICE. PROVIDE PRESSURE REDUCING VALVES AT EACH PIECE OF EQUIPMENT OR APPLIANCE IF GAS PRESSURE IS GREATER THAN 10" WC DOWSTREAM OF THE GAS METER.
11. VALVES, UNIONS, ETC. SHALL BE SAME SIZE AS PIPE UNLESS OTHERWISE INDICATED.
12. REFER TO KITCHEN EQUIPMENT DRAWINGS FOR PLUMBING ROUGH-IN REQUIREMENTS. MAKE ALL ROUGH-IN AND FINAL CONNECTIONS TO KITCHEN EQUIPMENT UNLESS OTHERWISE NOTED.
13. REFER TO MECHANICAL DRAWINGS FOR HVAC AND HOOD PLUMBING REQUIREMENTS.
14. GAS LINES SHALL BE SUPPORTED.
15. FLOOR SINKS AND FLOOR DRAINS IN TRAFFIC AREAS SHALL BE INSTALLED FLUSH WITH FLOOR SURFACE.
16. PROVIDE WATER HAMMER ARRESTOR FOR ALL HAND SINKS AND URINAL WATER LINES.
17. PROVIDE AIR GAPS FOR INDIRECT DRAINS AS REQUIRED BY CODE. AIR SHALL BE MINIMUM 2 TIMES DIAMETER OF INDIRECT DRAIN.
18. VERIFY DEPTH, SIZE, LOCATION, AND CONDITION OF ALL EXISTING UTILITIES IN THE FIELD PRIOR TO COMMENCING WORK ON PROJECT. NOTIFY OWNER IMMEDIATELY OF CONDITIONS THAT EXIST WHICH WOULD CAUSE THE DESIGN TO BE ALTERED.
19. COORDINATE INSTALLATION OF PLUMBING WORK WITH OTHER TRADES SO AS TO AVOID UNNECESSARY DELAY OR INTERFERENCES. REVIEW ARCHITECTURAL AND EQUIPMENT SHEETS.
20. PROVIDE BACKFLOW PROTECTION DEVICES REQUIRED BY AGENCIES HAVING JURISDICTION. BACKFLOW DEVICES REQUIRING TESTING SHALL BE INSTALLED NO HIGHER THAN 5'-0" A.F.F.
21. PROVIDE CONDENSATE DRAIN FROM A/C UNITS TO APPROVED DRAIN. PROVIDE GAS PIPING TO UNITS. MAKE FINAL CONNECTIONS REQUIRED FOR OPERATION.
22. THE OWNER OR KITCHEN EQUIPMENT SUPPLIER MAY SUBSTITUTE EQUIPMENT OR EQUIPMENT MAY VARY FROM WHAT IS SHOWN. THEREFORE, VERIFY ALL CRITICAL DIMENSIONS WITH OWNER PRIOR TO CONSTRUCTION. FAILURE OF CONTRACTOR TO VERIFY THESE DIMENSIONS SHALL PLACE RESPONSIBILITY FOR SUBSEQUENT RELOCATION DIRECTLY UPON CONTRACTOR.
23. ALL WATER LINES SHALL BE RUN OVERHEAD UNLESS OTHERWISE NOTED.
24. ALL WATER LINES SHALL BE FLUSHED PRIOR TO CONNECTING FIXTURES OR EQUIPMENT.
25. PROVIDE ESCUTCHEON PLATES AND SILICONE SEALANT AT UTILITY PENETRATIONS INTO WALLS, CEILINGS, AND FLOORS. DO NOT USE CAULKS OR EXPANDING FOAMS FOR SEALANT.
26. CPVC SCHEDULE 40 WASTE PIPE CAN BE SUBSTITUTED FOR BLACK IRON WASTE PIPE WHERE ALLOWED BY LOCAL MUNICIPALITIES.

Table with 3 columns: SYMBOLS, ABBREV., DESCRIPTION. Lists plumbing symbols for items like Y.B. YARD BOX, R.D. ROOF DRAIN, A.P. ACCESS PANEL, V.T.R. VENT THRU ROOF, V.B.F. VENT BELOW FLOOR, U.T.R. UP THRU ROOF, V.C.P. VITRIFIED CLAY PIPE, C.I. CAST IRON, (TYP.) TYPICAL, (N) NEW, (E) EXISTING, F.D. FLOOR DRAIN, H.D. HUB DRAIN, O.F.D. OVERFLOW DRAIN, F.S. FLOOR SINK, G.L. GAS LINE, A.F.F. ABOVE FINISHED FLOOR, etc.

PLUMBING LEGEND NTS 3

Table with 7 columns: FIXTURE, NO., DRAIN (D.F.U., TOTAL D.F.U.), COLD WATER (F.U., TOTAL C.W.), HOT WATER (F.U., TOTAL H.W.). Lists fixtures like WATER CLOSET, URINAL, LAVATORY, HAND SINK, PREP SINK, 3-COMPARTMENT SINK, HOSE BIBB/WATER FILTRATION UNIT, FLOOR DRAIN, HUB DRAIN, FLOOR SINK, MOP SINK, RETHERMALIZER, and TOTAL.

PROBABLE DEMANDS/ AND PIPE SIZING REQUIREMENTS: COLD WATER: 36.75 FU = 25.4 GPM, DRINK: GW 22 DFU, DRAIN: SAN 27 DFU, HOT WATER: 15.75 FU = 17.875 GPM. USE 1-1/2" CW SERVICE, USE 4" SANITARY (MIN), USE 4" SANITARY (MIN), USE 1-1/4" HW SERVICE. BASED ON 2015 IPC COMBINATION DRAIN & VENT. *FIXTURE HAS INDIRECT WASTE TO FLOOR SINK. GREASE INTERCEPTOR SIZING CALCULATION (11 GPM) x (30 MIN RETENTION TIME) = 330 GALLONS. NOTES: 1. PROPOSED GREASE INTERCEPTOR SIZE = 1,000 GALLONS. 2. CALCULATION DERIVED FROM SECTION 1003.3.6 IN THE 2015 MICHIGAN PLUMBING CODE. 3. PER SECTION 709.3, ONE GPM IS EQUIVALENT TO TWO FIXTURE UNITS.

PLUMBING FIXTURE COUNT NTS 2

Main plumbing fixture schedule table with columns: ITEM, FIXTURE, SOIL OR WASTE, VENT, COLD WATER, HOT WATER, TEMP/D WATER, WASTE FU, WATER FU, DESCRIPTION, MANUFACTURER / MODEL NUMBER. Lists items like EXTERIOR CLEANOUT, FLOOR SINK, FLOOR DRAIN, HUB DRAIN, FLOOR CLEANOUT, WALL CLEANOUT, HOSE BIBB, WATER CLOSET, LAVATORY, HAND SINK, MOP SINK, 3-COMP. SINK, PREP SINK, GREASE INTERCEPTOR, MIXING VALVE, WATER HEATER, EXPANSION TANK, BACKFLOW PREVENTOR, and REVERSE OSMOSIS.

PLUMBING FIXTURE SCHEDULE NTS 1

GENERAL NOTES - PLUMBING NTS 4

Table with 2 columns: DATE, REMARKS. Shows dates 09.17.21 and 03.11.22 with remarks 'Health Comments' and 'Issued for Construction'.

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TACO BELL

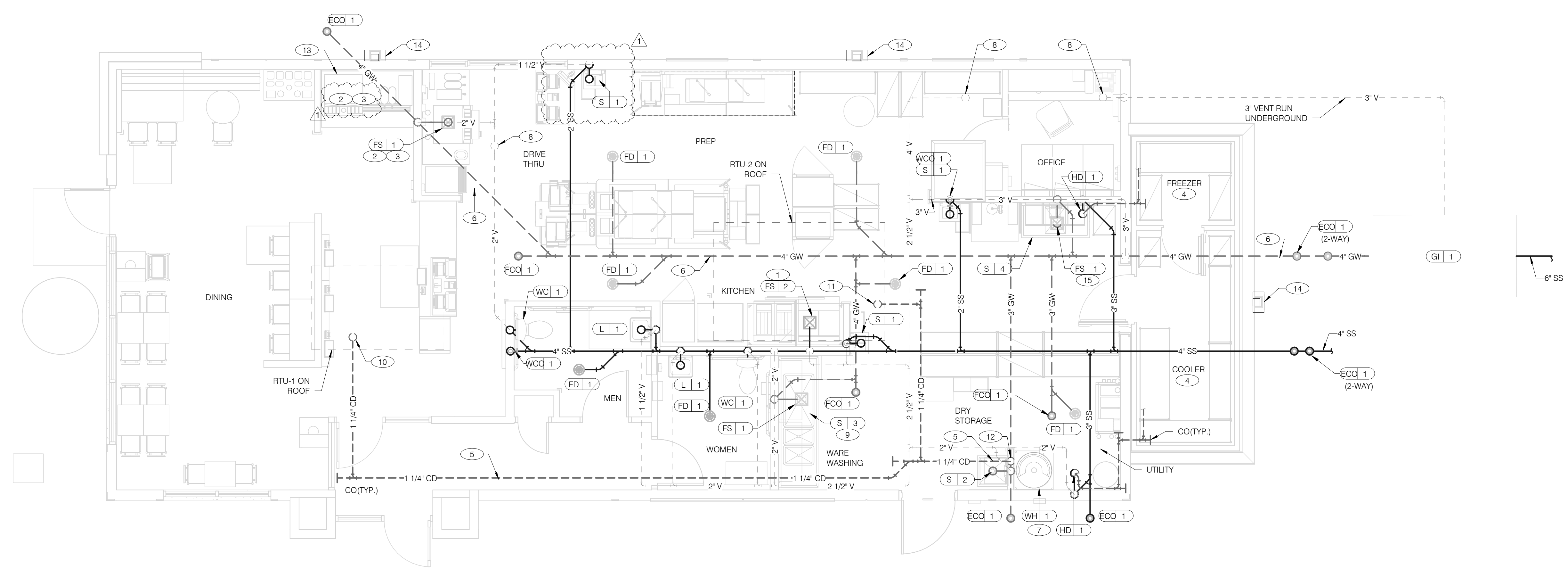
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ENDEAVOR 2.0 PLUMBING SCHEDULES AND NOTES

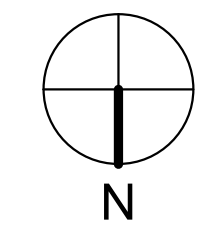
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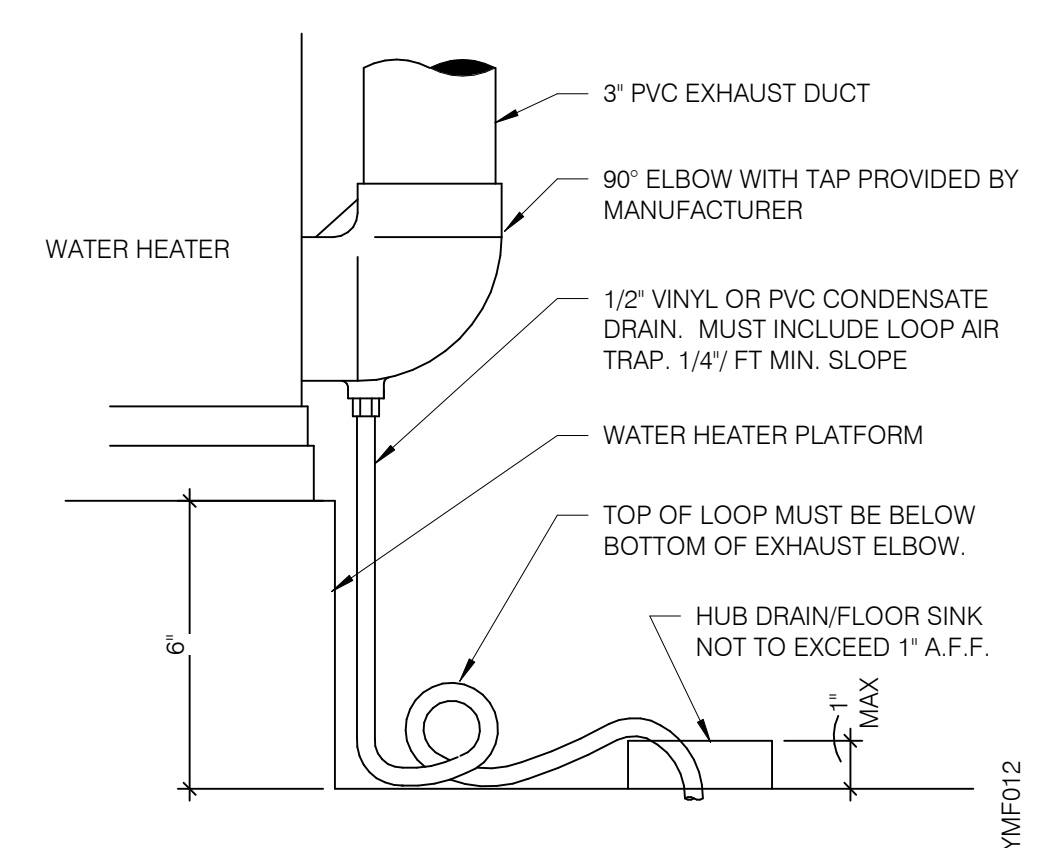


DATE	REMARKS
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WASTE & VENT PIPING PLAN 1/4" = 1'-0" **1**



WATER HEATER CONDENSATE DETAIL NTS **4**

- A. NO ROOF PENETRATIONS PERMITTED WITHIN ROOF WATER PLY. REFER TO ROOF PLAN FOR LOCATIONS.
- B. REFER TO RISER DIAGRAM ON SHEET P5.0 FOR ALL WASTE AND VENT SIZES.
- C. SEE ARCHITECTURAL PLANS FOR DOWNSPOUT LOCATIONS
- D. VERIFY WITH THE LOCAL BUILDING AUTHORITY THAT CONDENSATE DRAINAGE CAN BE ROUTED TO THE MOP SINK.

WASTE & VENT PLAN NOTES NTS **3**

- 1 UNDERGROUND SANITARY PIPE SHALL BE NO HUB CAST IRON PIPE FOR THE FIRST 10 FEET FROM CONNECTION TO FLOOR SINK FS-2, OUTWARD.
- 2 PROVIDE DEDICATED CONDENSATE LINE AND DRAIN LINE FROM ICE MACHINE TO THE FS UNDERNEATH THE DRIVE THRU SODA MACHINE. PROVIDE AIR GAP PER LOCAL CODE.
- 3 PROVIDE DEDICATED WASTE LINES FROM BEVERAGE UNIT TO THE FS UNDERNEATH THE DRIVE THRU SODA MACHINE. PROVIDE AIR GAP PER LOCAL CODE.
- 4 PROVIDE 3/4" COPPER CONDENSATE FROM DRAIN PROVIDED BY VENDOR TO OUTFALL AT HUB DRAIN/MOP SINK (HEAT ROPE IS SUPPLIED WITH FREEZER CONDENSATE). CONCEAL CONDENSATE PIPE IN WALL.
- 5 PVC OR COPPER CONDENSATE DRAIN FROM HVAC UNITS ON ROOF. RUN TO MOP SINK. PIPING SHALL SLOPE 1/4" PER FOOT AND SHALL BE INSULATED WITH 1" CLOSED CELLULAR INSULATION. REFER TO RISER DIAGRAM ON SHEET P5.0 FOR PIPE SIZES.
- 6 ENTIRE RUN OF DRAIN LINES TO INLET OF EXTERIOR GREASE INTERCEPTOR AND OUTBOUND FROM INTERCEPTOR TO CONNECTION AT SANITARY MAIN SHALL BE SCHEDULE 40 PVC DWV OR AS REQUIRED BY AUTHORITY HAVING JURISDICTION.
- 7 ROUTE INDIRECT WASTE FROM WH-1 TO HD-1. REFERENCE DETAIL 2/P6.1 AND DETAIL 4/P2.0.
- 8 4" VENT UP THROUGH ROOF.
- 9 PIPE 3-COMPARTMENT SINK TO FLOOR SINK WITH AIR GAP PER CODE.

- 10 1-1/4" CONDENSATE DRAIN DOWN FROM RTU-1. SEE DETAIL 10/P6.0.
- 11 1-1/4" CONDENSATE DRAIN DOWN FROM RTU-2. SEE DETAIL 10/P6.0.
- 12 CONDENSATE DRAIN PIPE DOWN TO MOP SINK. PROVIDE AIR GAP AS REQUIRED BY CODE. IF REQUIRED RUN CONDENSATE PIPING TO EXTERIOR DRYWELL, RETENTION AREA OR STORM SEWER AS DIRECTED BY AUTHORITY HAVING JURISDICTION.
- 13 RUN DRAIN LINE FROM S/S DRINK MACHINE THROUGH WALL OPENING. TO OUTFALL AT FS BENEATH D/T DRINK MACHINE.
- 14 DOWN SPOUT. SEE CIVIL PLANS FOR CONTINUATION.
- 15 ROUTE DRAIN FOR REVERSE OSMOSIS DISCHARGE TO FLOOR SINK. ENSURE PROPER AIR GAP.

KEYNOTES - WASTE AND VENT NTS **2**

TACO BELL

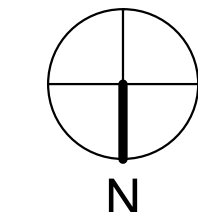
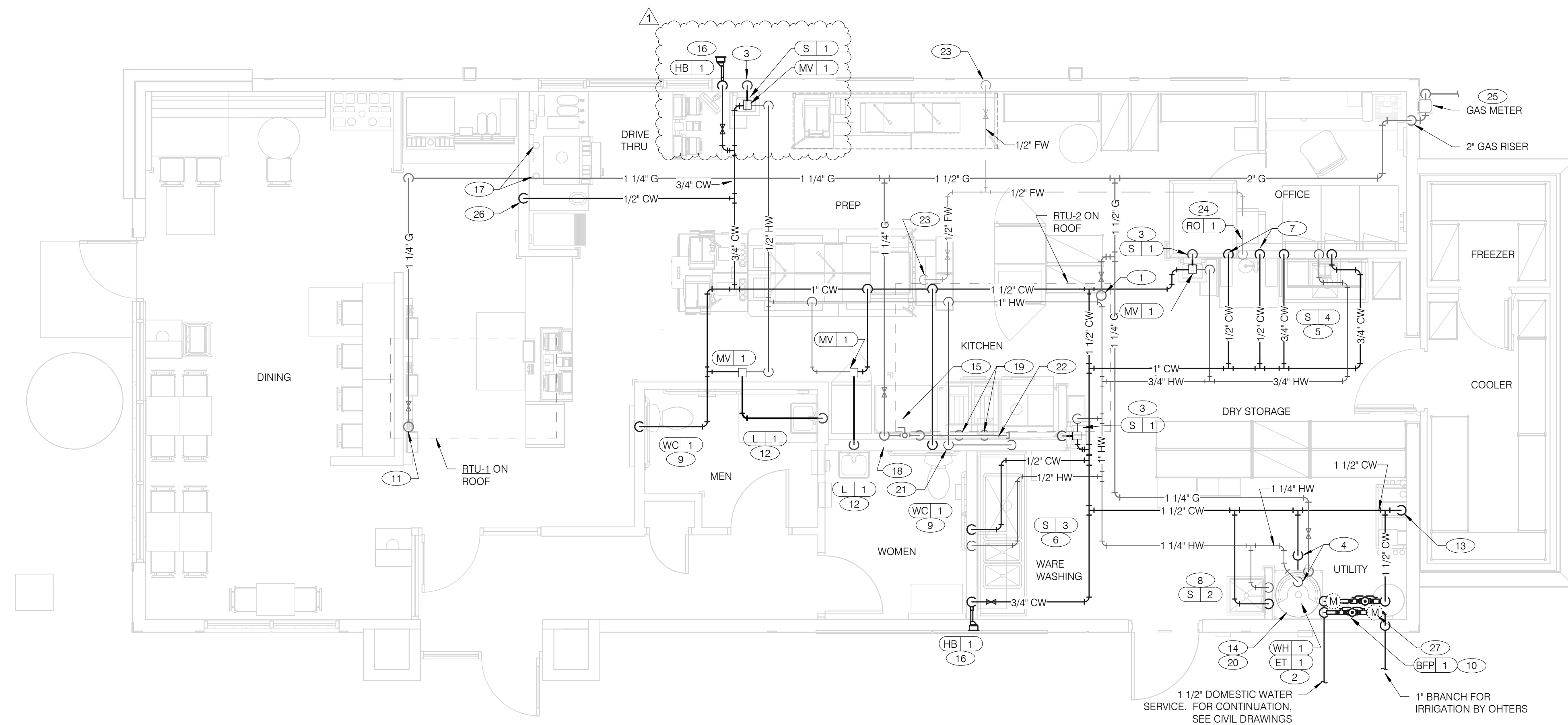
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**ENDEAVOR 2.0
WASTE AND
VENT PLAN**

P2.0

PLOT DATE: 3/9/2022 10:39:51 AM



WATER & GAS PLAN 1/4" = 1'-0" **1**

- A. NO ROOF PENETRATIONS PERMITTED WITHIN ROOF "WATER VALLEYS". REFER TO ROOF PLAN FOR LOCATIONS.
- B. REFER TO SHEET P4.0 FOR ROUGH-IN LOCATIONS.
- C. REFER TO SHEET P5.0 FOR WATER AND GAS ISOMETRIC DRAWINGS.
- D. FLUSH ALL WATER SUPPLY LINES OF ALL DEBRIS AND IMPURITIES PRIOR TO CONNECTING TO WATER FILTERS.
- E. PROVIDE REDUCED PRESSURE BACKFLOW PREVENTER TO SERVE CARBONATOR. DRAIN RELIEF TO FLOOR SINK WITH AIR GAP

- 1 1-1/4" (260 CFH) GAS UP TO RTU-2 WITH DIRT LEG, GAS COCK AND UNION.
- 2 1-1/4" (120 CFH) GAS DOWN TO WATER HEATER WITH GAS COCK, DIRT LEG AND UNION.
- 3 1/2" TEMPERED WATER DOWN IN WALL TO HAND SINK.
- 4 1-1/4" HOT AND 1-1/4" COLD WATER LINES DOWN TO WATER HEATER.
- 5 1/2" HOT AND COLD WATER LINES DOWN IN WALL TO PREP SINK.
- 6 1/2" COLD AND HOT WATER LINES DOWN IN WALL TO THREE COMPARTMENT SINK.
- 7 1/2" COLD WATER 2'-0" A.F.F. . CONNECT TO WATER FILTER FOR HOT WATER SYSTEM P-452. PROVIDE SHUT-OFF VALVE PRIOR TO CONNECTION TO WATER FILTER.
- 8 1/2" COLD AND HOT WATER DOWN IN WALL TO MOP SINK.
- 9 3/4" CW DOWN IN WALL TO FLUSH TANK WATER CLOSET .
- 10 WATER METER AND REDUCED PRESSURE BACKFLOW PREVENTER LOCATED PER LOCAL UTILITY REQUIREMENTS. PIPE RELIEF TO HUB SINK.
- 11 1-1/4" (180 CFH) GAS UP TO RTU-1 WITH DIRT LEG, GAS COCK AND UNION.
- 12 1/2" TEMPERED WATER LINES DOWN IN WALL TO LAVATORY.
- 13 3/4" CW DOWN ALONG WALL TO WATER FILTER S-540.
- 14 WATER HEATER (WH-1). PIPE CONDENSATE LINE, T&P DISCHARGE AND DRAIN PAN TO HUB DRAIN. SEE WATER HEATER DETAIL 2/P6.1.
- 15 EMERGENCY GAS SHUT OFF VALVE LOCATED BELOW CEILING.
- 16 3/4" CW DOWN IN WALL TO EXTERIOR HOSE BIBB.
- 17 BUNDLED SYRUP LINES TO BEVERAGE DISPENSERS S-284 & S-285 AND FILTERED WATER LINES TO ICE MAKERS S-513 AND FROZEN BEVERAGE DISPENSER S-546. SEE DRAWINGS A2.0 AND P5.0.
- 18 1-1/4" GAS DOWN ALONG WALL TO COOKING EQUIPMENT. VERTICAL GAS PIPING IN WALL SHALL NOT BE RIGIDLY SECURED AND ADEQUATE PIPE PROTECTION SHALL BE PROVIDED.
- 19 3/4" GAS DIRT LEG W/ GAS COCK TO COOKING EQUIPMENT. PROVIDE FLEXIBLE GAS HOSE KIT FOR CONNECTION TO COOKING EQUIPMENT.
- 20 3" PVC EXHAUST AND INTAKE FLUES FROM WATER HEATER. PIPE THROUGH ROOF AS RECOMMENDED BY MANUFACTURER TO LOCATIONS SHOWN ON SHEET M2.0. SEE DETAIL 1/P6.1.
- 21 1/2" HOT WATER DOWN IN WALL TO RETHERMALIZER C-107. PROVIDE SHUT-OFF VALVE OUTSIDE OF WALL FOR CONNECTION TO RETHERMALIZER.
- 22 RUN GAS PIPE 18" A.F.F. WITH DIRT LEGS FOR GAS HOSE KITS TO COOKING EQUIPMENT C-026 AND C-107.
- 23 1/2" RO WATER PIPE DOWN IN WALL AND ROUTED IN LOW WALL OF DRY PRODUCTION LINE. PROVIDE SHUT-OFF VALVE ON RO PIPING IN CEILING NEAR CHASE.
- 24 1/2" COLD WATER TO REVERSE OSMOSIS FILTER P-315 AND 1/2" FILTER WATER FROM REVERSE OSMOSIS FILTER. PROVIDE SHUT-OFF VALVE ON CW PIPE PRIOR TO CONNECTION TO FILTER. SEE DETAIL 9/P6.0.
- 25 GAS METER, REGULATOR VALVES, BRACKETS, ETC. AS REQUIRED BY LOCAL GAS COMPANY. SEE CIVIL DRAWINGS FOR CONTINUATION.
- 26 1/2" COLD WATER. CONNECT TO WATER FILTER FOR BUNN POD BREWER S-547. PROVIDE SHUT-OFF VALVE PRIOR TO CONNECTION TO WATER FILTER.
- 27 1" DUCT METER FOR IRRIGATION SYSTEM.

WATER & GAS PLAN NOTES NTS **3**

KEYNOTES - WATER AND GAS NTS **2**

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 DRAWN BY: TH
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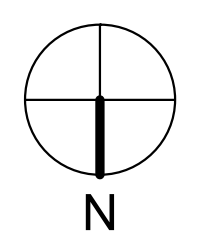
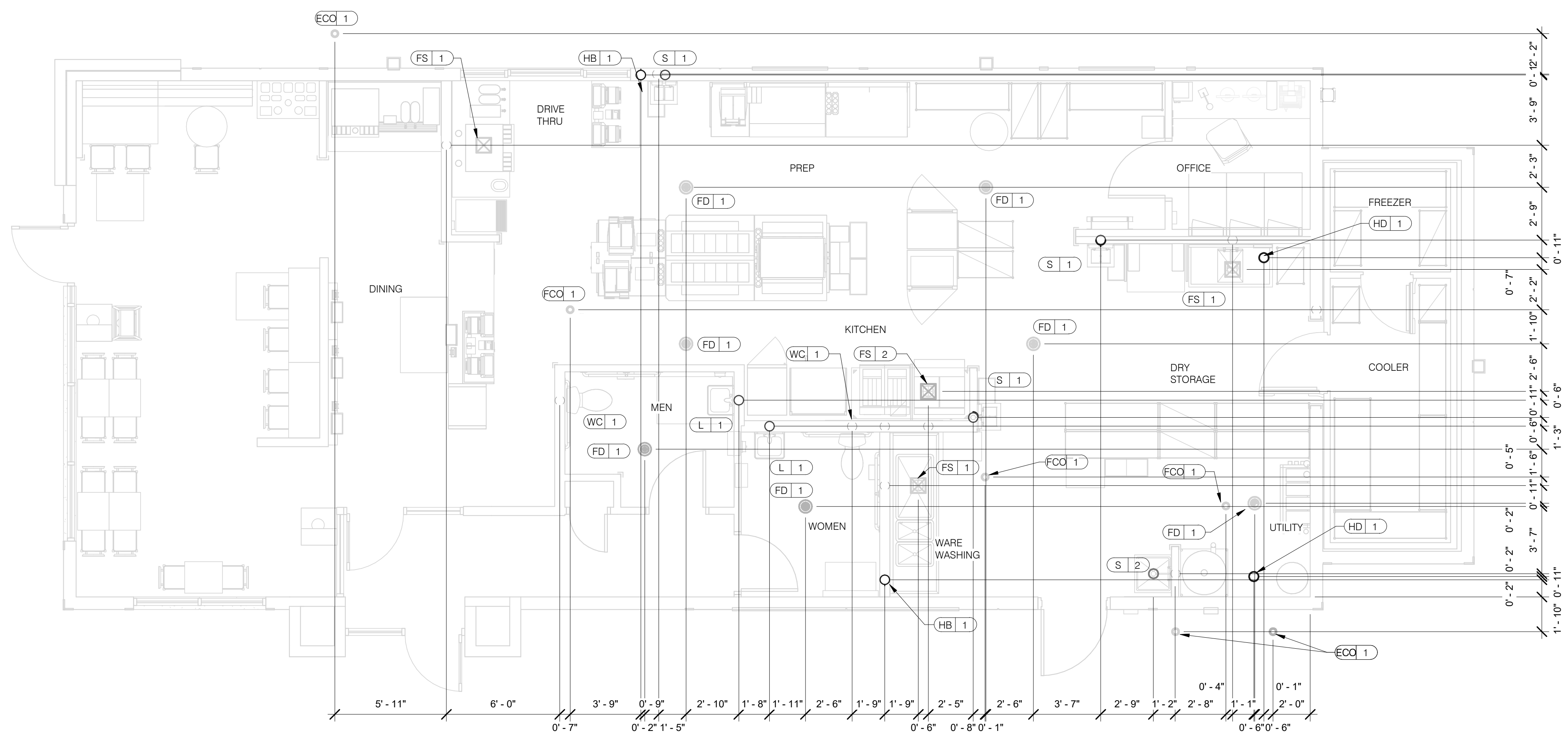
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**ENDEAVOR 2.0
 WATER AND
 GAS PLAN**

P3.0

PLOT DATE: 3/9/2022 10:39:54 AM



PLUMBING ROUGH-IN PLAN 1/4" = 1'-0" **1**

EQUIP #	EQUIPMENT ITEM	TYPE	ELEVATION	REMARKS	EQUIP #	EQUIPMENT ITEM	TYPE	ELEVATION	REMARKS
FS 1	FLOOR SINK			--	S 3	3-COMPARTMENT SINK FAUCET	CW/HW	+38" A.F.F.	--
FS 2	FLOOR SINK			EPOXY COATED CAST IRON	S 4	PREP SINK	W	+19" A.F.F.	--
HD 1	HUB DRAIN			--	S 4	PREP SINK FAUCET	CW/HW	+38" A.F.F.	--
WH 1	WATER HEATER	CW		--	WCO 1	WALL CLEAN OUT			--
WH 1	WATER HEATER	G	+15" A.F.F.	--	FCO 1	FLOOR CLEAN OUT			--
WC 1	WATER CLOSET	CW	+29" A.F.F.	BOTH HANDICAP AND REGULAR	HB 1	HOSE BIB			--
UR 1	URINAL FLUSH VALVE	CW	+47" A.F.F.	WALL MOUNTED					
UR 1	URINAL WASTE STUB	W	+16-1/2" A.F.F.	WALL MOUNTED					
L 1	LAVATORY	TW	+20" A.F.F.	--	C-107	REETHERMALIZER	HW	+8" A.F.F.	
L 1	LAVATORY WASTE LINE	W	+16-1/2" A.F.F.	--	C-107	REETHERMALIZER	G	+12" A.F.F.	
RO 1	REVERSE OSMOSIS	CW	+84" A.F.F.	--	C-026	DUAL VAT FRYER	G	+12" A.F.F.	
S 1	HAND SINK	TW	+18" A.F.F.	RIM OF LAV @ +2-8" A.F.F.					
S 2	MOP SINK	W	-6" A.F.F.	RECESSED IN FLOOR					
S 2	MOP SINK FAUCET	CW/HW	+36" A.F.F.	--	S-286	WATER FILTER SYSTEM	CW	+94" A.F.F.	INLET TO & OUTLET FROM FILTER
S 2	MOP SINK FAUCET	CW/HW	+42" A.F.F.	CLOSET MOP SINK ONLY					
S 3	3-COMPARTMENT SINK	W	+19" A.F.F.	--	P-452	HOT WATER SYSTEM	CW	+24" A.F.F.	

- ALL DIMENSIONS TO FLOOR SINKS, FLOOR DRAINS AND HUB DRAINS ARE TO CENTER OF FIXTURE.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THIS DATA ON LOCATION OF ALL PLUMBING ROUGH-INS WITH INFORMATION PROVIDED ON ARCHITECTURAL AND STRUCTURAL DRAWINGS AND EQUIPMENT ACTUALLY SUPPLIED AND TO CONFIRM CORRECTNESS OF DIMENSIONS INDICATED HEREIN.

PLUMBING ROUGH-IN SCHEDULE NTS **3**

PLUMBING ROUGH-IN NOTES NTS **2**

DATE	REMARKS
03.11.22	Issued for Construction

CONTRACT DATE: 06.22.21
BUILDING TYPE: END, MED20
PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 315089
STORE NUMBER: 40164
PA/PM: SM
DRAWN BY: TH
JOB NO.: 2019088.31

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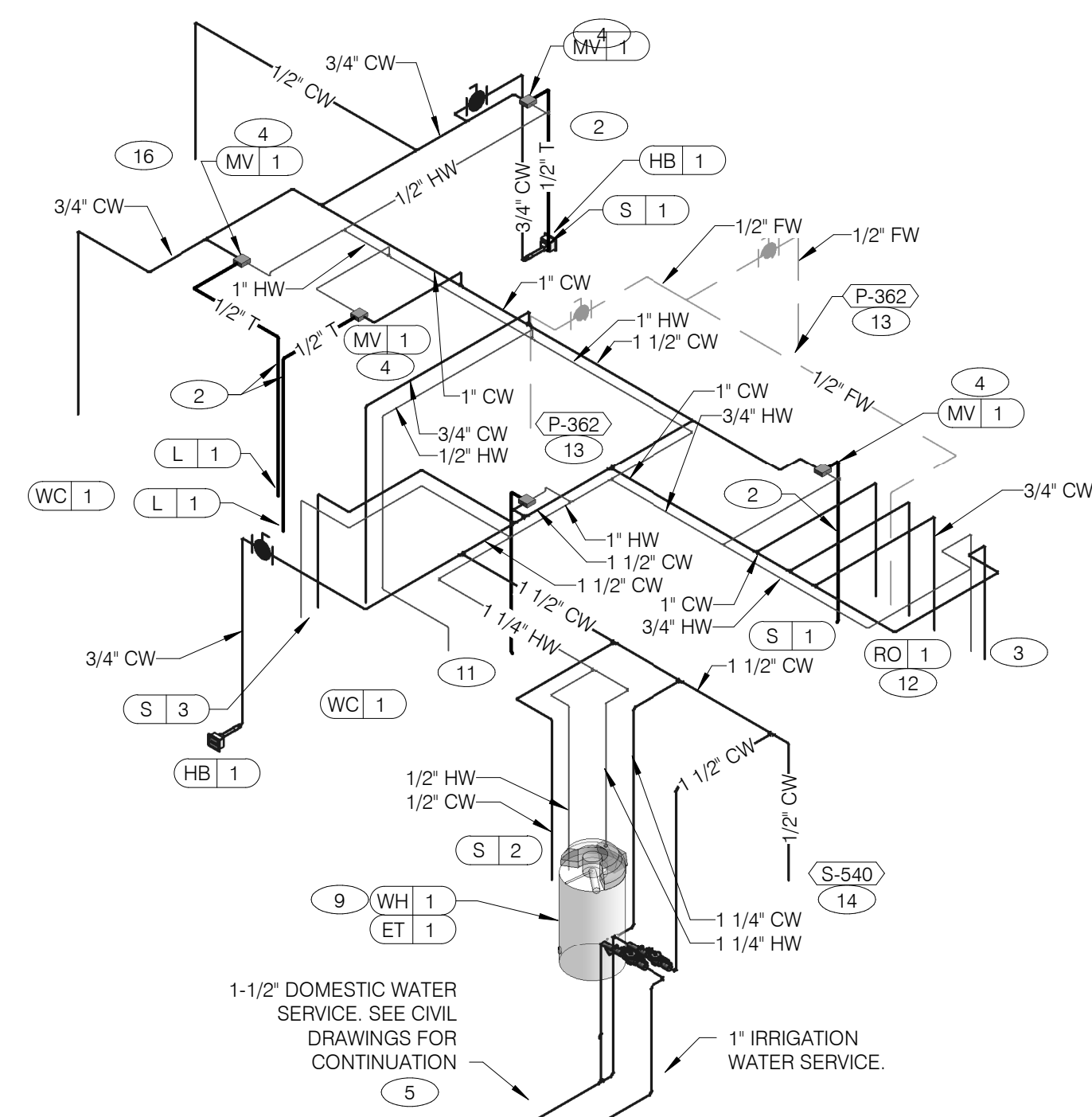
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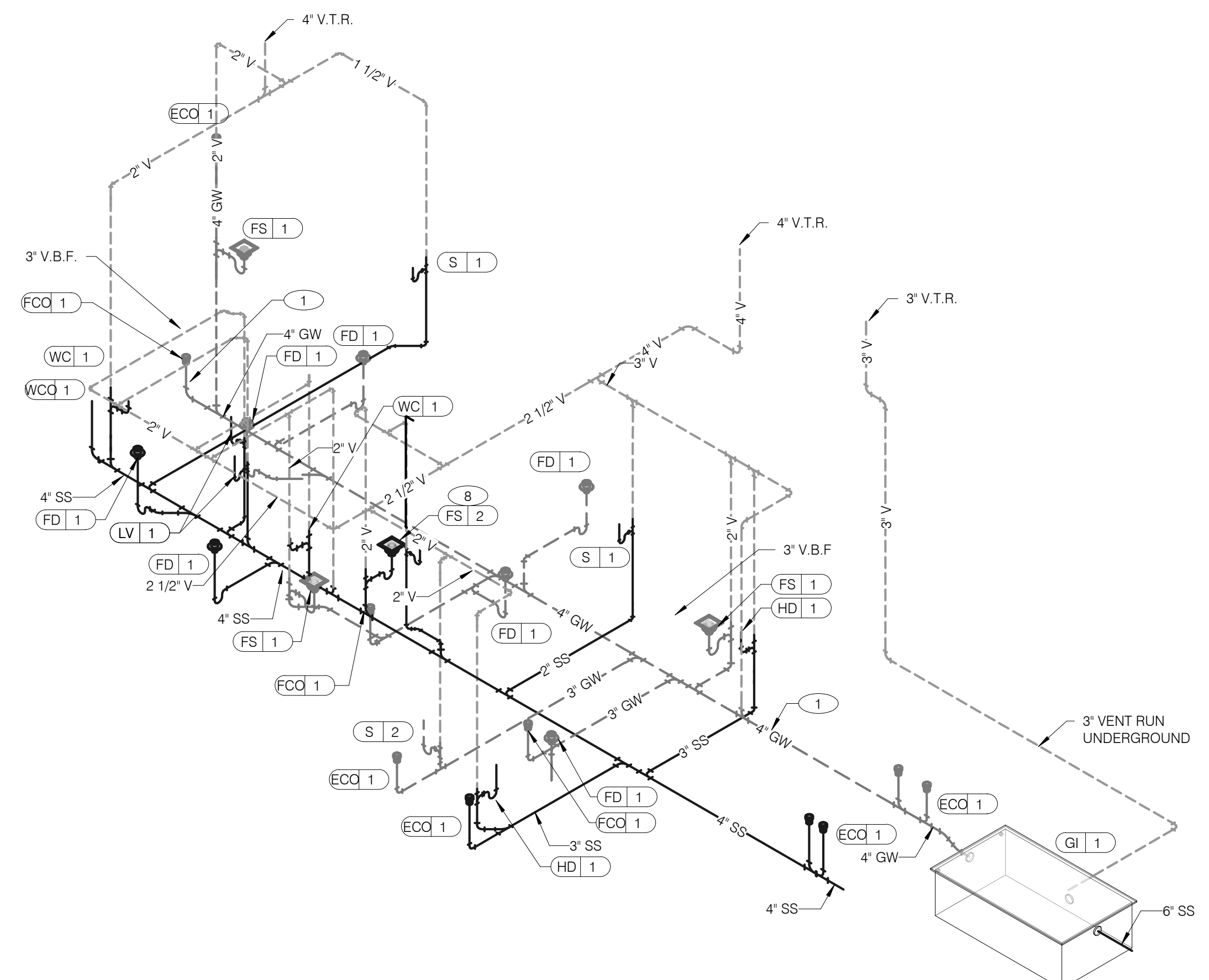
**ENDEAVOR 2.0
PLUMBING
ROUGH-IN PLAN**

P4.0

PLOT DATE: 3/9/2022 10:39:58 AM



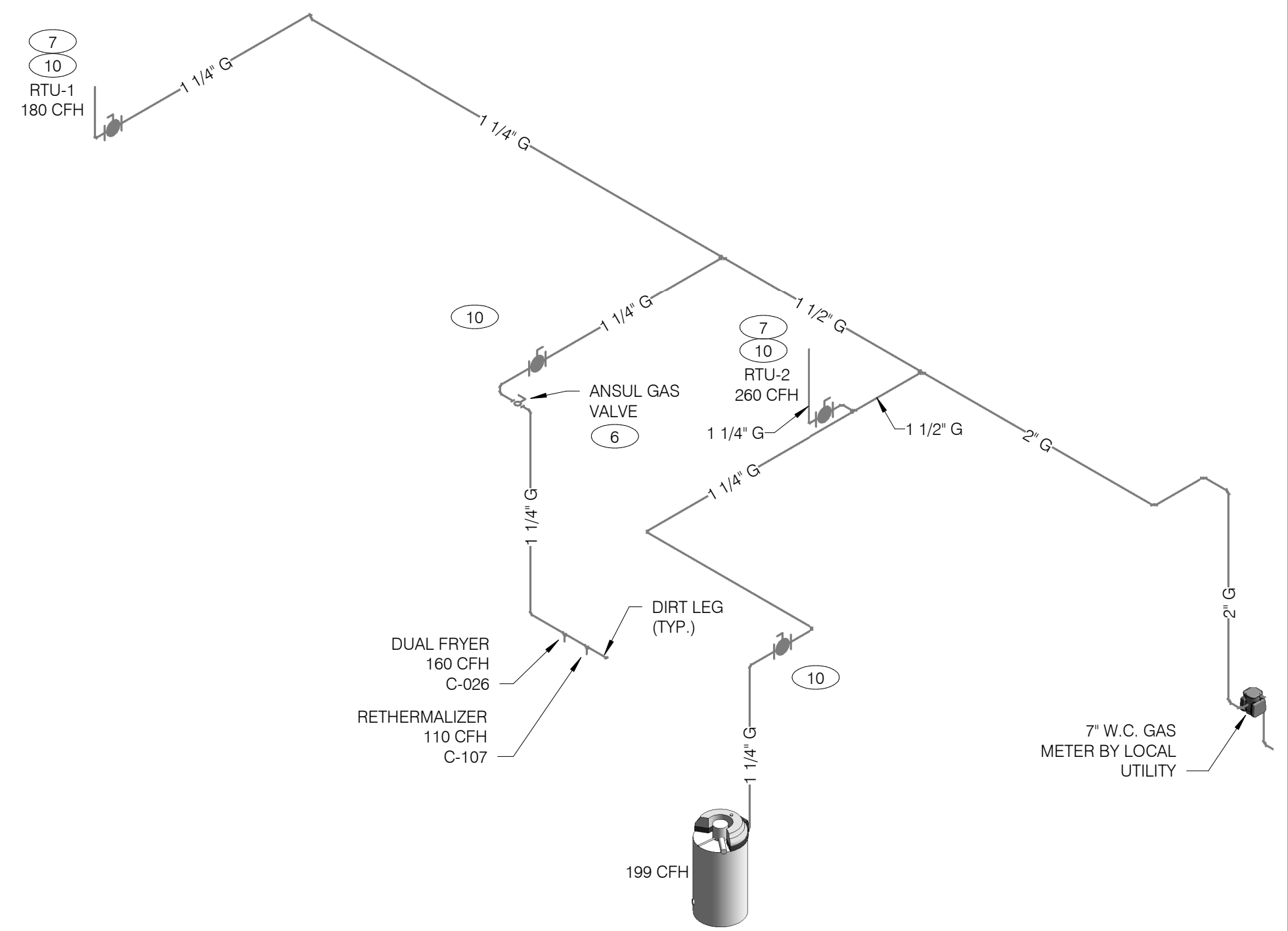
WATER ISOMETRIC NTS **4**



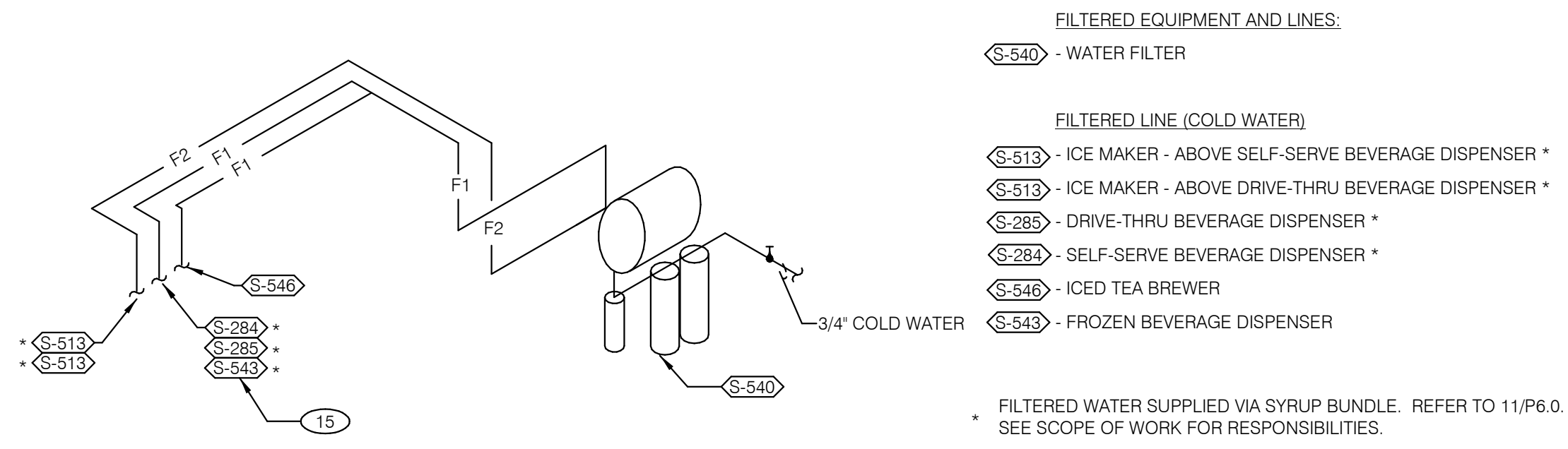
WASTE AND VENT ISOMETRIC NTS **1**

GAS DEMAND SCHEDULE	
RTU-1	180 CFH
RTU-2	260 CFH
WH-1	199 CFH
DUAL FRYER	160 CFH
REETHERMALIZER	110 CFH
TOTAL DEMAND 909.0 CFH = 909,000 BTUH	
NOTE: COORDINATE GAS DEMAND REQUIREMENTS WITH SITE-SPECIFIC RTU DESIGN.	

PIPE SIZE BASED ON 120' OF PIPE AND 7" W.C. OPERATING PRESSURE



GAS ISOMETRIC NTS **5**



FILTERED WATER ISOMETRIC NTS **2**

- KEYNOTES - ISOMETRICS** NTS **3**
- 1 ENTIRE RUN OF DRAIN LINES ON INLET TO GREASE TRAP SHALL BE SCHEDULE 40 PVC OR NO HUB CAST IRON AS REQUIRED BY CODE.
 - 2 1/2" TEMPERED WATER DOWN IN WALL TO HAND SINK / LAVATORY.
 - 3 1/2" HOT AND COLD WATER LINES DOWN IN WALL TO PREP SINK.
 - 4 THERMOSTATIC MIXING VALVE.
 - 5 METER AND REDUCED PRESSURE BACKFLOW PREVENTER PER LOCAL UTILITY REQUIREMENTS. PROVIDE SHUT-OFF VALVES AT BOTH SIDES OF BACKFLOW PREVENTER. VERIFY LOCATIONS WITH CIVIL DRAWINGS.
 - 6 EMERGENCY GAS SHUT-OFF VALVE (NORMALLY CLOSED) SHALL BE ELECTRIC SOLENOID TYPE WITH SPRING RETURN AND 24 VOLT ACTUATOR, SUITABLE FOR USE ON GAS PIPING SYSTEMS. VALVE SHALL BE ACTIVATED BY ANY OF THE EXHAUST HOOD FIRE SUPPRESSION SYSTEM. PROVIDE RELAYS AS REQUIRED TO ACTIVATE SHUT-OFF VALVE.
 - 7 GAS PIPING AT ROOF TOP UNIT FOR THROUGH THE BASE PIPE CONNECTION. SHUT-OFF VALVE SHALL BE LOCATED OUTSIDE OF THE UNIT.
 - 8 PROVIDE NO HUB CAST IRON PIPE FOR FIRST 10 FEET OF PIPE FROM CONNECTION TO FLOOR SINK FS-2
 - 9 PIPE T&P RELIEF VALVE TO OUTSIDE OF BUILDING OR TO HUB DRAIN. RUN FULL SIZE PIPE FROM VALVE WITH TYPE "K" COPPER TUBING.
 - 10 PROVIDE GAS SHUT-OFF VALVE IN CEILING SPACE.
 - 11 1/2" HOT WATER PIPE DOWN IN WALL. PROVIDE SHUT-OFF VALVE OUTSIDE OF WALL FOR CONNECTION TO RETHERMALIZER.
 - 12 1/2" COLD WATER CONNECT TO REVERSE OSMOSIS FILTER AND 1/2" FILTERED WATER FROM REVERSE OSMOSIS FILTER. PROVIDE SHUT-OFF ON CW PIPE PRIOR TO CONNECTION TO FILTER.
 - 13 1/2" RO WATER FROM REVERSE OSMOSIS FILTER DOWN IN UTILITY CHASE OF M.A.P.S. LINE. PROVIDE SHUT-OFF VALVE ON FW PIPE IN CEILING NEAR UTILITY CHASE.
 - 14 1/2" COLD WATER TO HOT WATER SYSTEM FILTER.
 - 15 TEE OFF 3/8" LINE FROM DRIVE THRU BEVERAGE DISPENSER FILTERED WATER SUPPLY. SEE DETAIL 8/P6.0.
 - 16 1/2" COLD WATER. CONNECT TO WATER FILTER FOR BUNN POD BREWER S-547. PROVIDE SHUT-OFF VALVE PRIOR TO CONNECTION TO THE WATER FILTER.

DATE	REMARKS
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STORE NUMBER: 40164
PA/PM: SM
DRAWN BY.: TH
JOB NO.: 2019088.31

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BROWNSTOWN, MI 48183

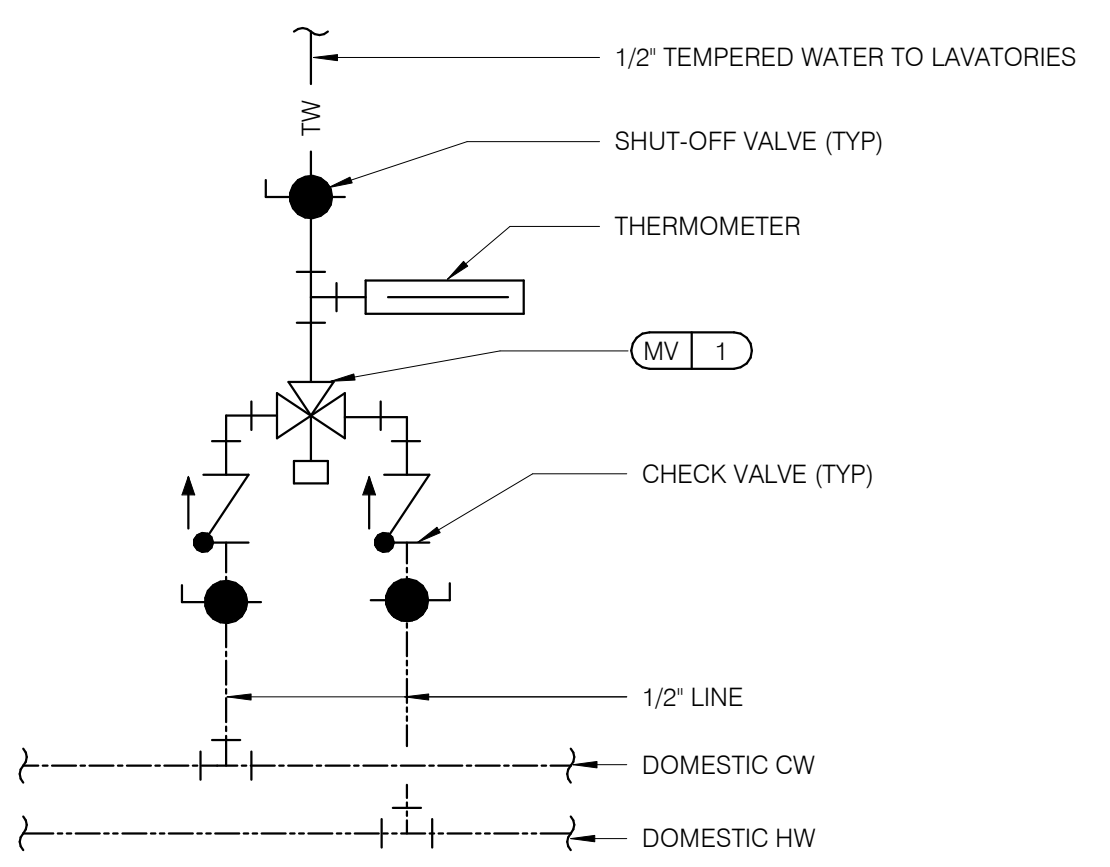


**ENDEAVOR 2.0
RISER
DIAGRAMS**

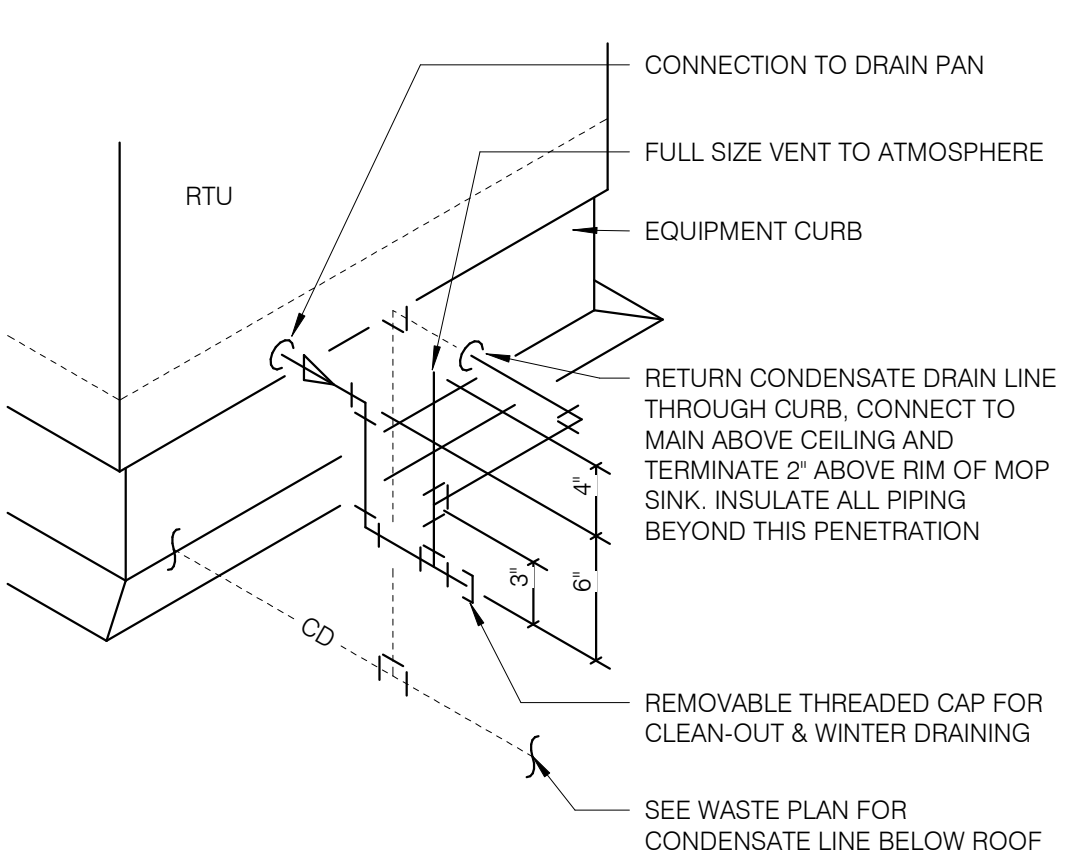
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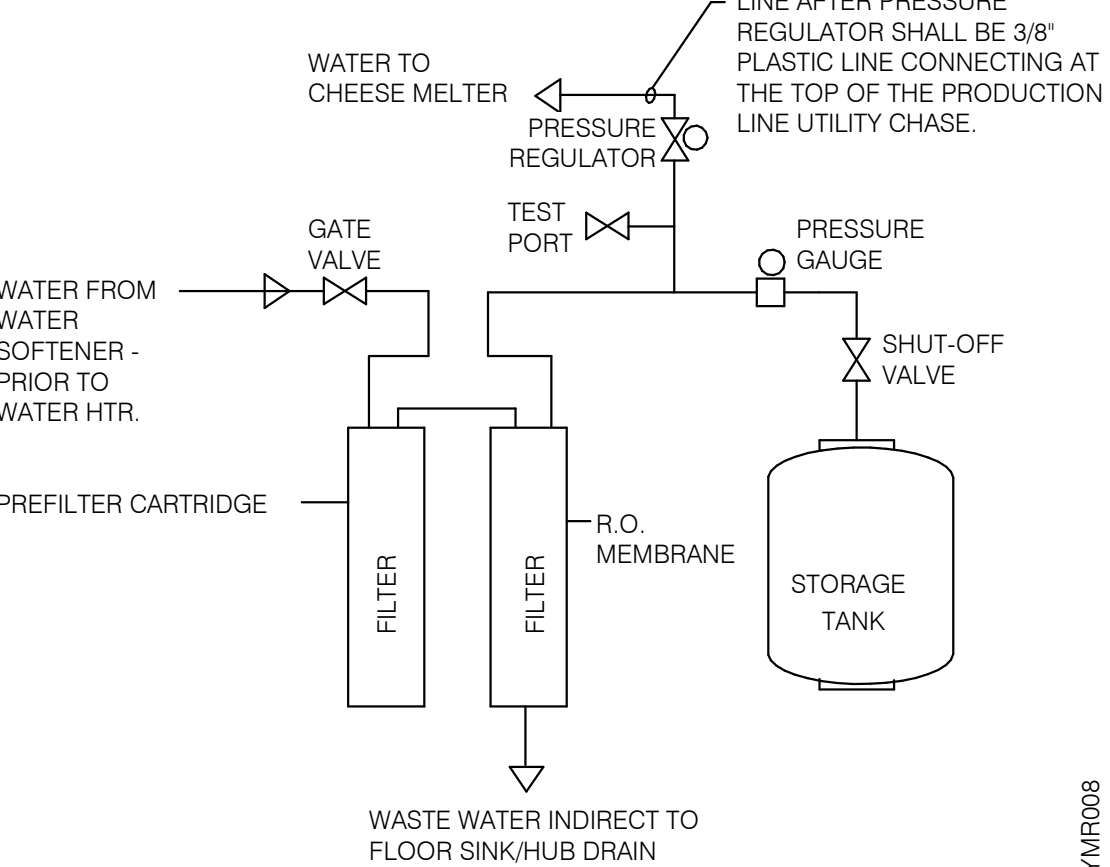
SERVICE CLEARANCES	
TOP	18"
SIDES	4"
FRONT	24"



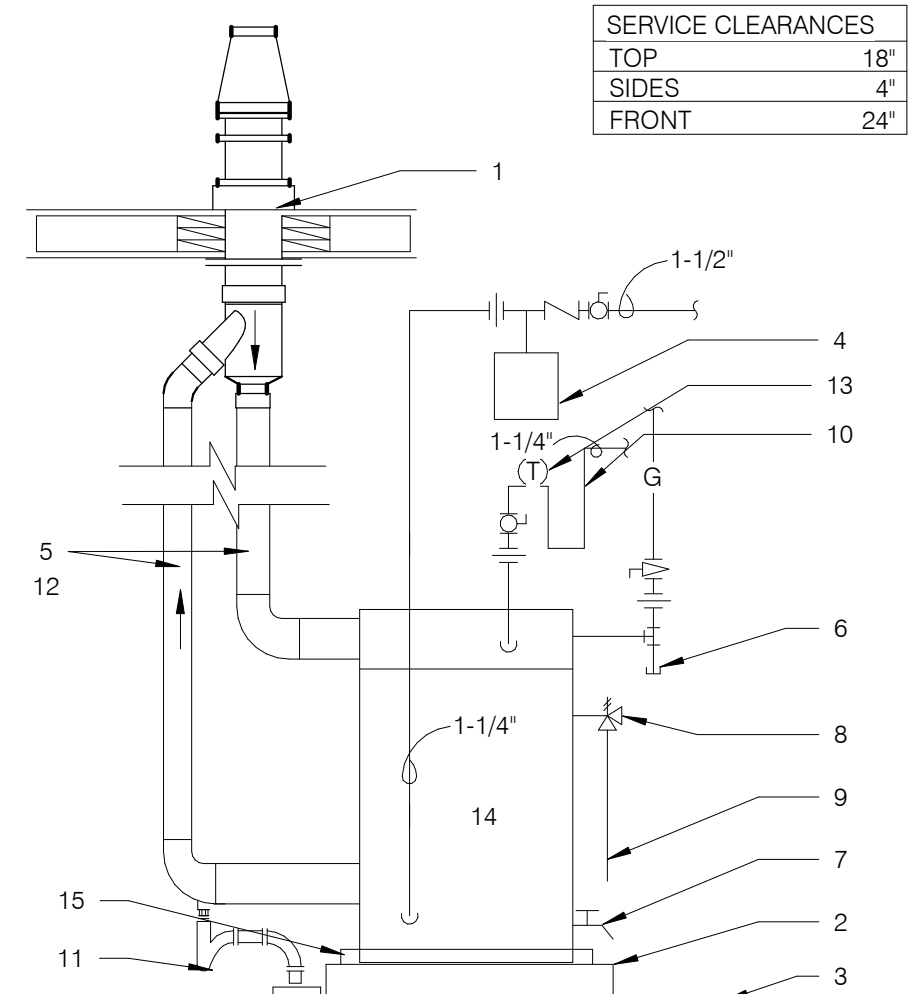
TEMPERING VALVE NTS **11**



RTU CONDENSATE NTS **10**

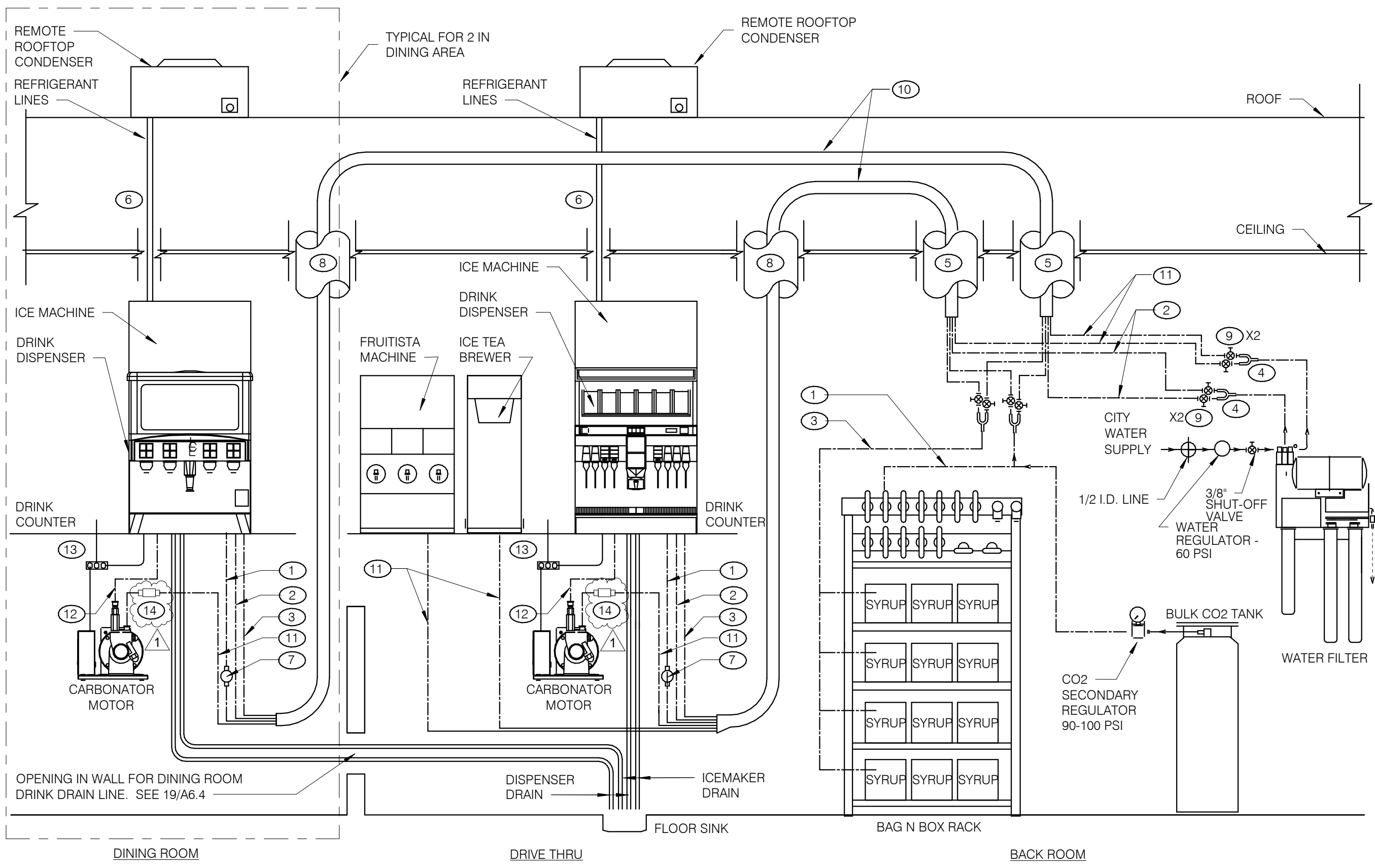


REVERSE OSMOSIS SYSTEM NTS **9**



- 1 FLUE THRU ROOF
- 2 4" CONCRETE PAD
- 3 FINISHED FLOOR
- 4 THERMAL EXPANSION TANK BY WATTS - SEE PLUMBING SCHEDULE - STRAP AND SUPPORT TO WALL
- 5 SCHEDULE 40 PVC, MINIMIZE TURNS AND TRANSITIONS.
- 6 GAS COCK VALVE WITH FULL SIZE DIRT LEG
- 7 3/4" DRAIN WITH VALVE & CAP
- 8 COMBINATION TEMPERATURE AND PRESSURE RELIEF PER LOCAL CODE
- 9 RUN T&P DISCHARGE FULL SIZE TO HUB DRAIN
- 10 22" DEEP HEAT TRAP
- 11 P-TRAP AND LINE TO DRAIN PROVIDED BY MANUFACTURER. LEAVE AIR GAP BETWEEN BOTTOM OF TRAP AND DRAIN. SEE DETAIL 4/P2.0
- 12 SUPPORT VENT PIPE RUNS EVERY 5'-0" VERTICALLY AND EVERY 3'-0" HORIZONTALLY.
- 13 OUTLET THERMOMETER PROVIDED BY MFR. LOCATE WITHIN 12" OF W.H. OUTLET.
- 14 SEE DETAIL 2/P6.1 FOR SCHEDULE OF ITEMS PROVIDED BY W.H. MFR.
- 15 DRAIN PAN TO HUB DRAIN.

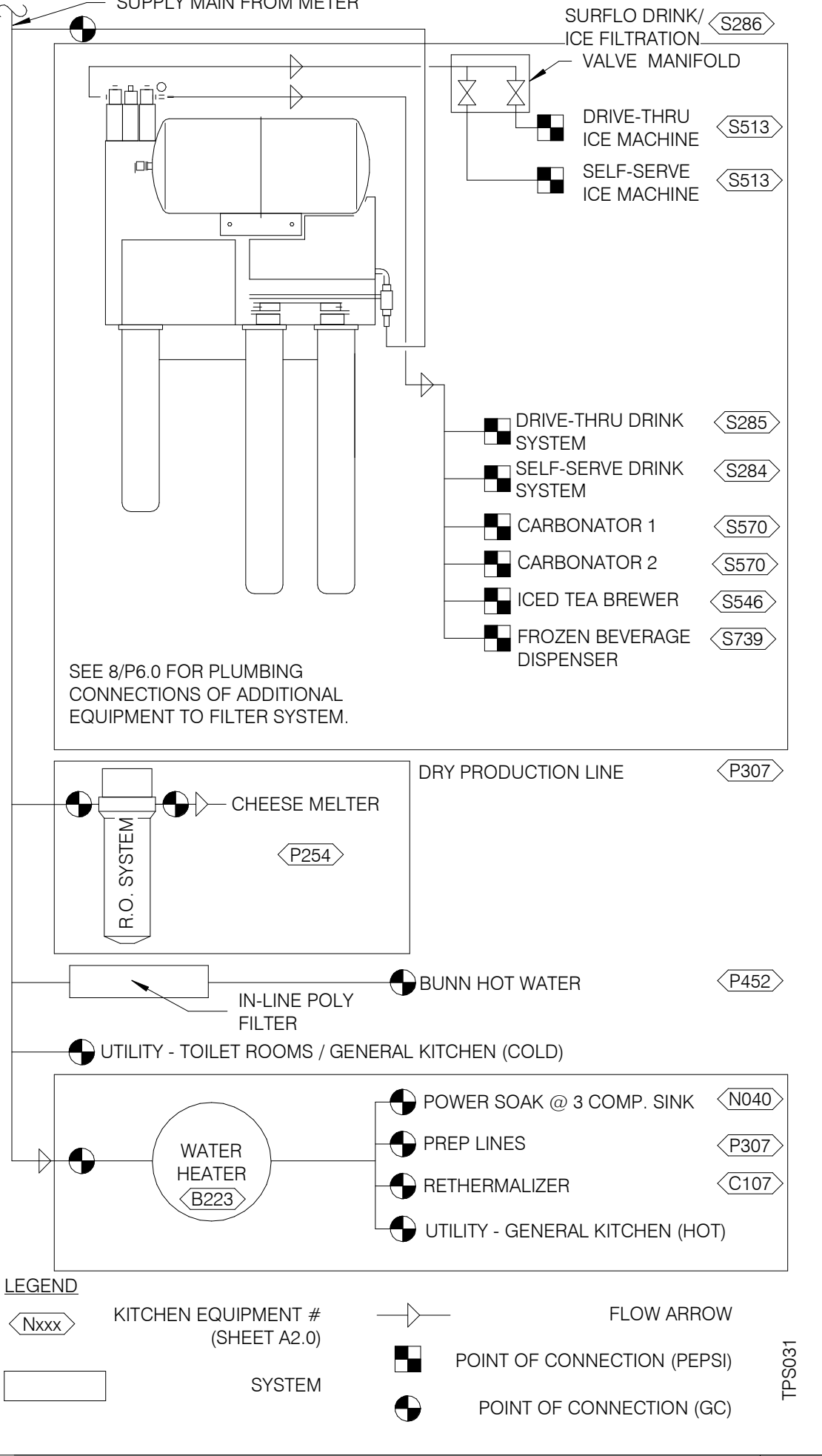
WATER HEATER NTS **2**



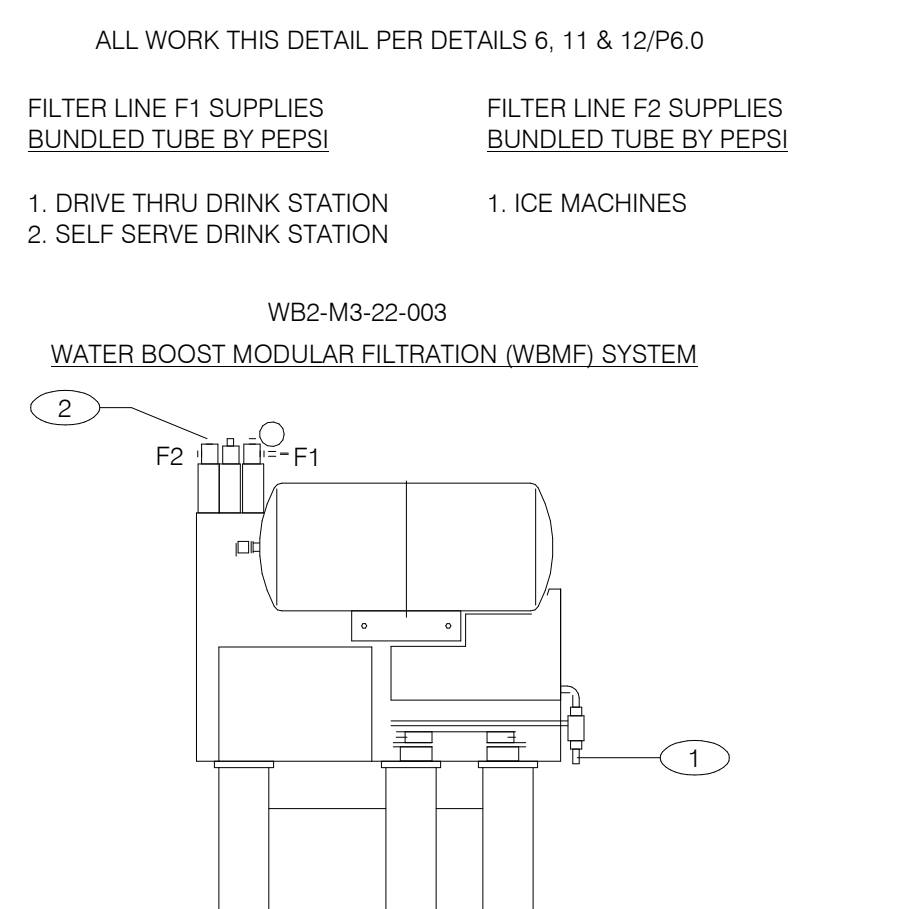
- GENERAL NOTES:**
1. OVERALL FILTER DIMENSIONS: 21" WIDE x 12" DEEP x 48 1/2" HIGH
 2. SEE DETAIL SCOPE OF WORK FOR SCOPE DEFINITIONS.
 3. ROUGH-INS SHALL BE PROVIDED BY CONTRACTOR.
 4. INSTALLATION SHALL COMPLY WITH STATE AND LOCAL PLUMBING CODES.
 5. FILTER SHALL BE PROTECTED AGAINST FREEZING.
 6. USE ONLY TEFLON (HIGH-LOW TEMPERATURE) TAPE TO SEAL THREADED PARTS; NO PIPE DOPE.
 7. DO NOT INSTALL WHERE LINE PRESSURE EXCEEDS 125 PSI OR WHERE TEMPERATURE EXCEEDS 100 F.
 8. SEE EQUIPMENT PLAN FOR LOCATION.
 9. SEE DETAIL 3 THIS SHEET FOR BUNDLE DETAILS
 10. "Y" FOR ICE MACHINES SUPPLY LINES SHALL BE INSTALLED @ FILTER OUTLET.
 11. BACKFLOW PREVENTERS FOR FILTER ASSEMBLY ARE PROVIDED.
 12. PROVIDE WATTS SD-3 BACKFLOW PREVENTER WITH STRAINER UPSTREAM OF THE SODA CARBONATOR. SEE NOTE 14 BELOW.
- THERE ARE TWO SELF-SERVE DRINK/ICE SYSTEMS WHICH SHARE A COMMON FLOOR SINK WITH THE D/T DRINK/ICE SYSTEM.
- INSTALL ELECTRICAL, WATER, AND DRAIN IN ACCORDANCE WITH ALL LOCAL, STATE & FEDERAL CODES.
- EQUIPMENT RATING:**
ED250 DISPENSER - 115V, 3.5 AMPS
ED300 DISPENSER - 115V, 4.0 AMPS
CARBONATOR - 115V, 60 HZ, 7.0 AMPS
BOOSTER ASSEMBLY - 115V, 60 HZ, 6.5 AMPS

- KEY NOTES:**
- 1 3/8" CO₂ LINE
 - 2 3/8" FILTERED WATER LINE - ICE MACHINES
 - 3 3/8" SYRUP LINES
 - 4 1/2" X 3/8" X 3/8" "Y"
 - 5 BUNDLED TUBING CEILING PENETRATION.
 - 6 STAINLESS CHASE SURFACE MOUNTED FROM CEILING TO TOP OF ICE MACHINE
 - 7 PRE-SET CO₂ REGULATOR
 - 8 RECESSED 4" DIA. PVC VERTICAL CHASE FOR DRINK SYSTEM BUNDLED TUBING SYSTEM.
 - 9 3/8" SHUT OFF VALVES BARB FITTINGS
 - 10 DRINK SYSTEM BUNDLED TUBING. SEE DETAIL 6/P6.0
 - 11 3/8" FILTERED WATERLINE - ICE TEA, FRUITISTA & DRINK MACHINES
 - 12 3/8" LINE FOR PRESSURIZED FILTERED WATER
 - 13 ELECTRICAL FOR DRINK SYSTEM. SEE SHEET E3.0
 - 14 CARBONATED BEVERAGE BACKFLOW PREVENTER

DRINK SYSTEM SCHEMATIC NTS **8**



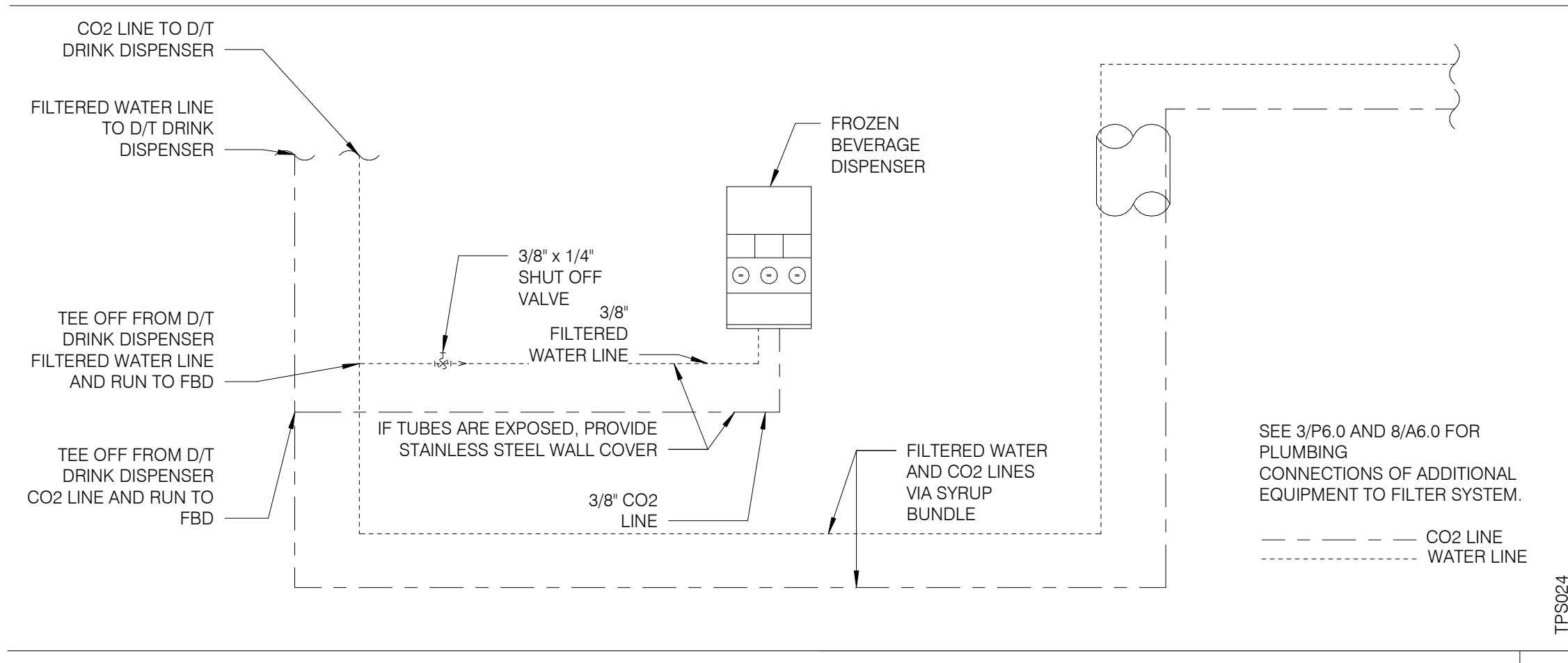
WATER FILTRATION SCHEMATIC NTS **3**



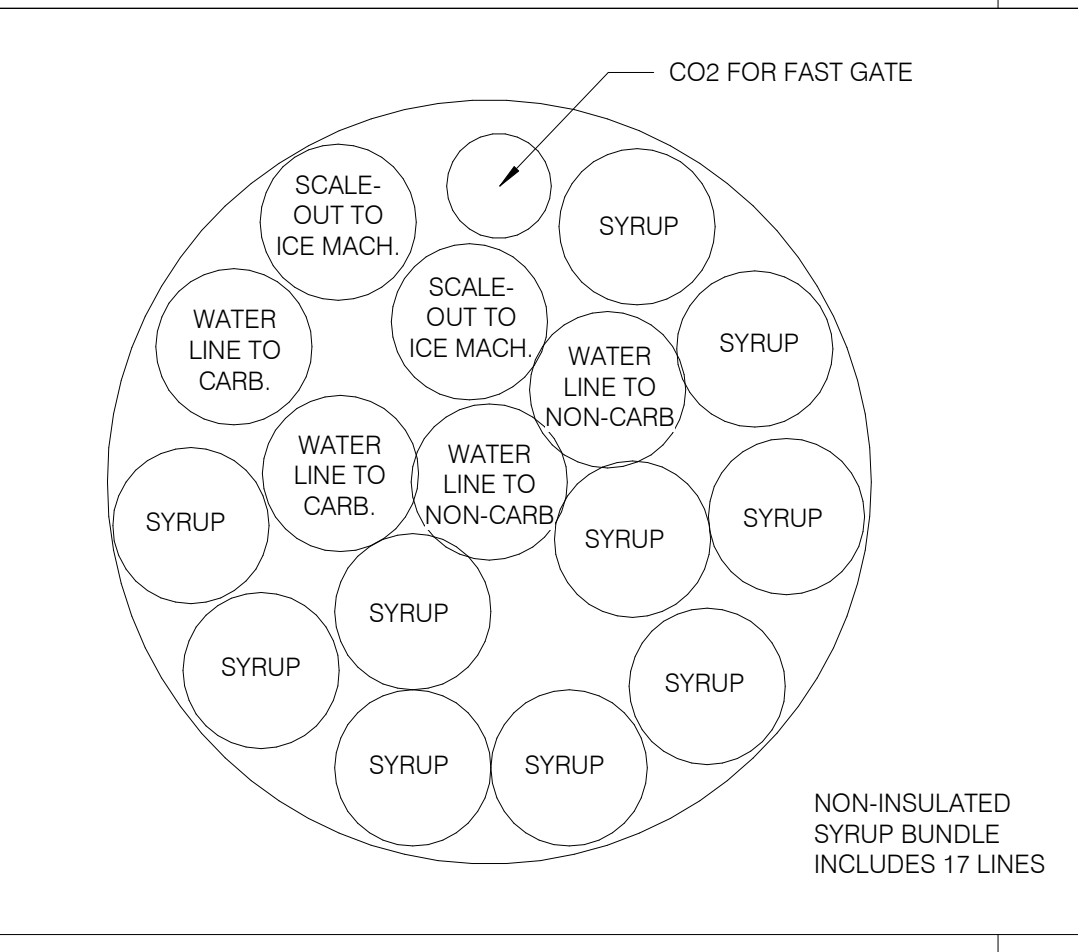
- KEY NOTES:**
- 1 3/4" COLD WATER INLET TO 1/2" COPPER LINE AND FITTINGS AT FILTER.
 - 2 3/4" OUTLET W/ INTEGRAL BACKFLOW PREVENTER, EQUAL TO WATTS REGULATOR CO. SERIES 007 AND SERVICE BALL VALVE.

- GENERAL NOTES:**
1. OVERALL DIMENSIONS 21" WIDE x 12" DEEP x 48 1/2" HIGH
 2. SEE SCOPE OF WORK FOR ADDITIONAL INFORMATION.
 3. INSTALLATION SHALL COMPLY WITH STATE AND LOCAL PLUMBING CODES.
 4. THE UNIT SHALL BE PROTECTED AGAINST FREEZING.
 5. USE ONLY TEFLON (HIGH-LOW TEMPERATURE) TAPE TO SEAL THREADED PARTS; NO PIPE DOPE.
 6. DO NOT INSTALL WHERE LINE PRESSURE EXCEEDS 125 PSI OR WHERE TEMPERATURE EXCEEDS 100 F.
 7. SEE SHT. A2.0 FOR LOCATION.

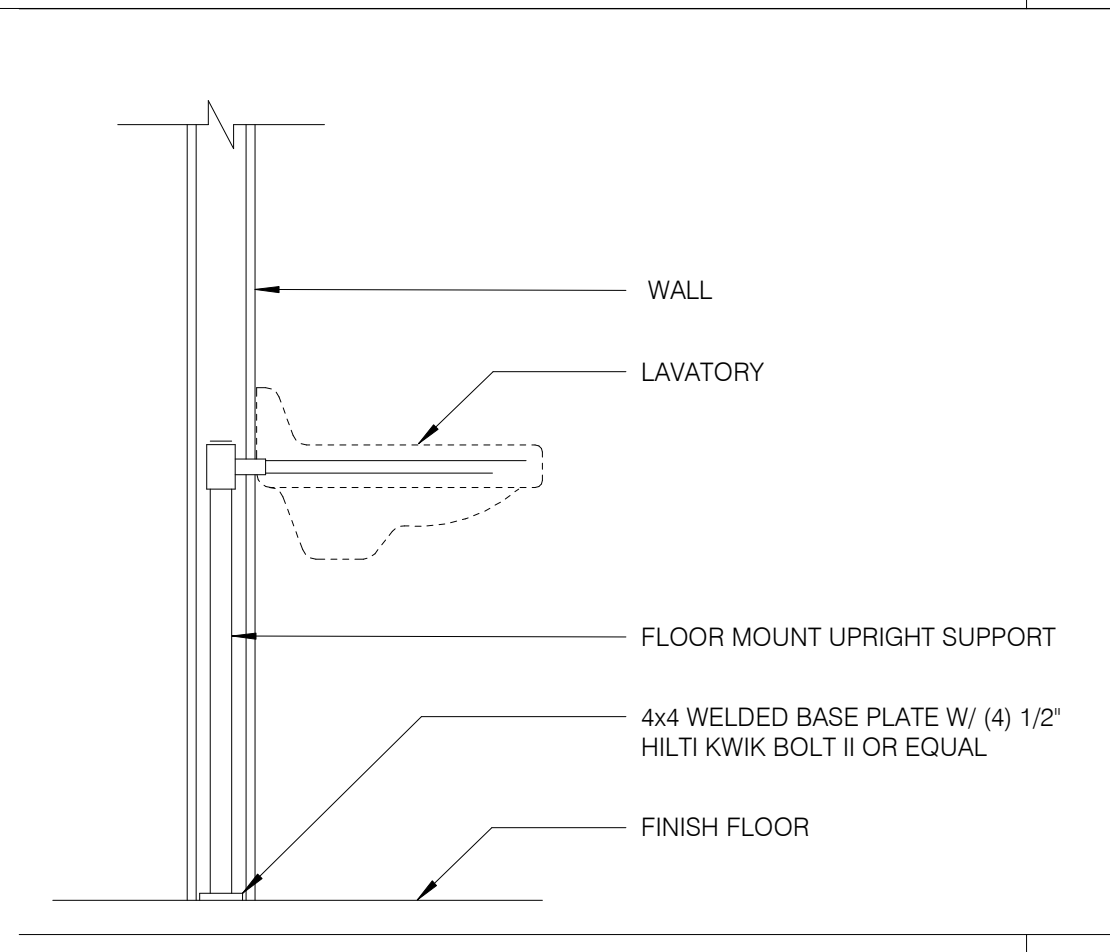
WATER FILTER SYSTEM NTS **1**



FBD DRINK SYSTEM DETAIL NTS **7**



SYRUP BUNDLE CONFIGURATION NTS **6**



LAVATORY SUPPORT NTS **5**

DATE	REMARKS
09.17.21	Health Comments
03.11.22	Issued for Construction

CONTRACT DATE: 06.22.21
BUILDING TYPE: END, MED20
PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 315089
STORE NUMBER: 40164
PA/PM: SM
DRAWN BY.: TH
JOB NO.: 2019088.31

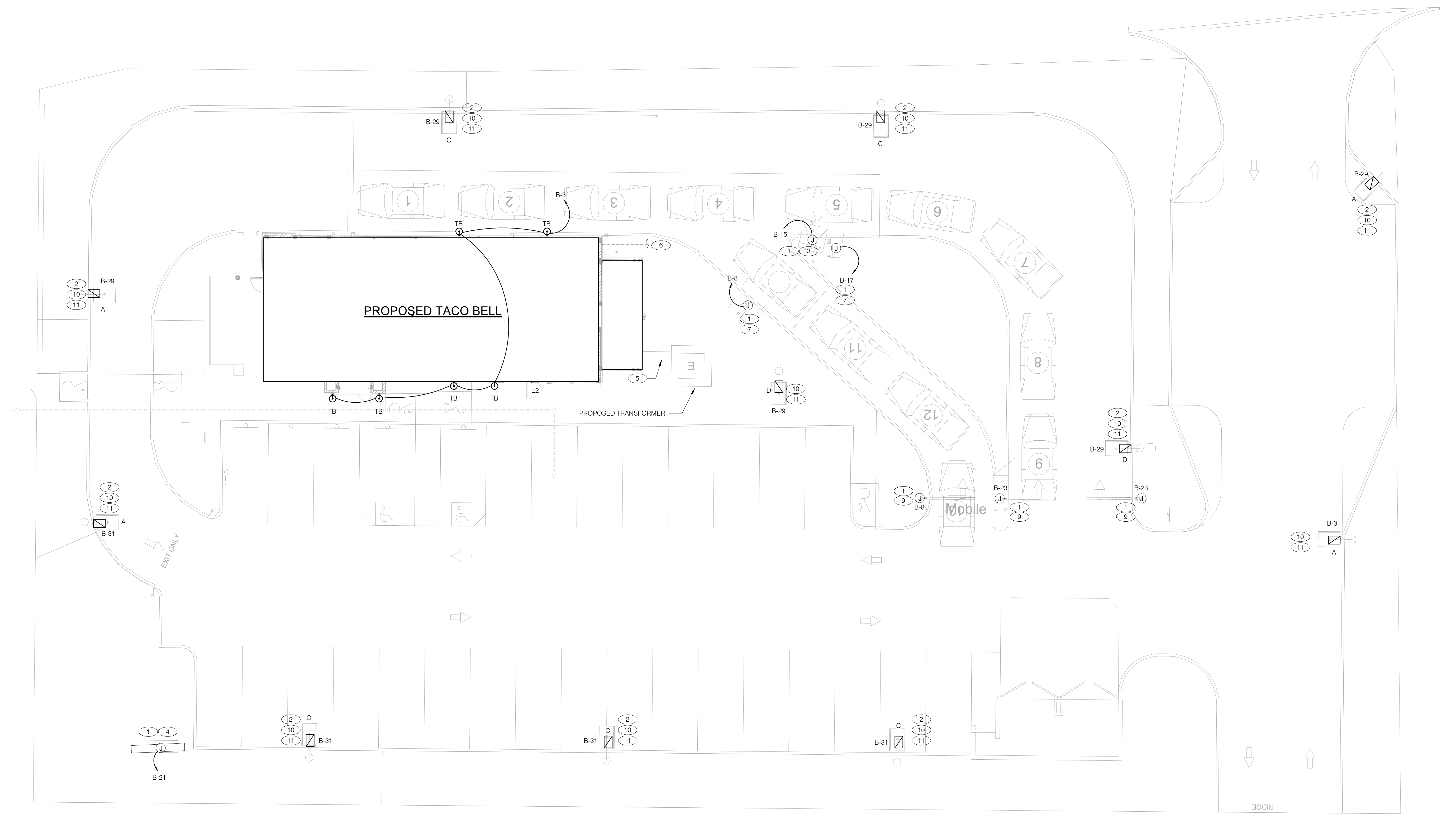
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BROWNSTOWN, MI 48183



ENDEAVOR 2.0
PLUMBING
DETAILS

P6.0

PLOT DATE: 3/9/2022 10:40:05 AM



DATE	REMARKS
03.11.22	Issued for Construction

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 BROWNSTOWN, MI 48183



ENDEAVOR 2.0
**SITE
 ELECTRICAL
 PLAN**

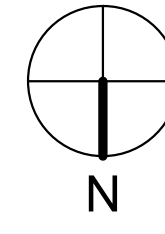
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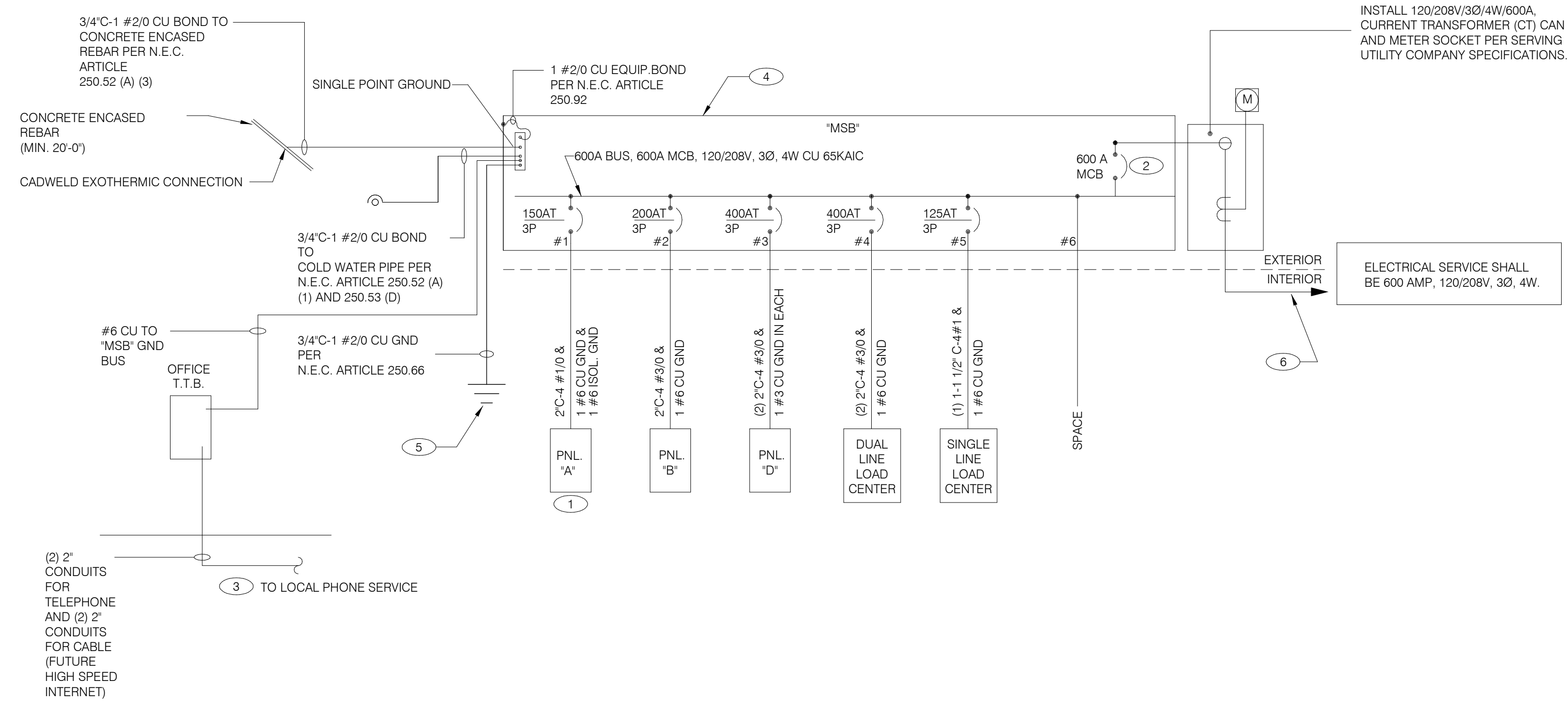
PLOT DATE: 3/9/2022 10:39:18 AM

- 1 1" C. - (2) #8, #8 GRD. (TYP. FOR ENTIRE CIRCUIT.)
- 2 REFER TO LIGHTING FIXTURE SCHEDULE ON E4.0 FOR ADDITIONAL INFORMATION ON LIGHTING FIXTURES. (TYPICAL)
- 3 DIGITAL MENU BOARD. REFER TO CONDUIT SCHEDULE FOR CONDUIT SIZE AND QUANTITY. PROVIDE (2) #8AWG., #8 GND. IN 1" C. REFER TO CIVIL DRAWINGS.
- 4 LED PYLON SIGN.
- 5 UNDERGROUND ELECTRIC SERVICE TO UTILITY CO. TRANSFORMER. REFER TO CIVIL SHEETS FOR LOCATION AND ROUTING. VERIFY AND COORDINATE ALL REQUIREMENTS WITH UTILITY CO.
- 6 PROVIDE SEPARATE 2" TELEPHONE AND CABLE (HIGH SPEED INCLUDED) CONDUITS TO CONNECTION ON SITE. REFER TO CIVIL SHEETS FOR LOCATION AND ROUTING. VERIFY AND COORDINATE ALL REQUIREMENTS WITH UTILITY CO.
- 7 SPEAKER POST AND CANOPY. REFER TO CONDUIT SCHEDULE FOR CONDUIT SIZE AND QUANTITY.
- 8 NOT USED.
- 9 CLEARANCE BAR. REFER TO CIVIL DRAWINGS.
- 10 LED SITE LIGHTING, REFER TO CIVIL DRAWINGS, TYP. REFER TO DETAIL 12/C1.1.
- 11 1" C. - (2) #8, #8 GND.

CONDUIT SCHEDULE

DEVICE	POWER	DATA
DIRECTIONAL	(1) 1"	-
SPEAKER POST	(1) 1"	(1) 1"
MENUBOARD	(1) 1"	(2) 1"





SINGLE LINE DIAGRAM NTS **A**

	2X4 LED FIXTURE	NL	NIGHTLIGHT		FUSIBLE DISCONNECT SWITCH WITH STARTER
	2X4 LED FIXTURE WITH BATTERY PACK	(S)	CEILING MOUNTED SPEAKER		FUSIBLE DISCONNECT SWITCH
	1X4 LED FIXTURE	(S)	WALL MOUNTED SPEAKER		NON-FUSIBLE DISCONNECT SWITCH
	1X4 LED FIXTURE WITH BATTERY PACK	(J)	JUNCTION BOX		PHOTOCELL
	DOWNLIGHT FIXTURE	(J)	WALL MOUNTED JUNCTION BOX		RAIN SENSOR
	SUSPENDED DOWNLIGHT FIXTURE	◀	TELEPHONE OUTLET		LED WALL MOUNT FIXTURE
	PENDANT MOUNTED LIGHT FIXTURE	⊕	DEDICATED GROUNDED OUTLET		EMERGENCY LIGHT
	TRACK MOUNTED PENDANT LIGHT FIXTURE	⊕	DUPLEX GROUNDED OUTLET		SINGLE POLE, SINGLE THROW TOGGLE SWITCH
	COOLER FIXTURE	⊕	DOUBLE DUPLEX GROUNDED OUTLET		SINGLE POLE, SINGLE THROW TOGGLE SWITCH W/ PILOT LIGHT
	EXIT SIGN (WALL MOUNTED)	⊕	GROUND FAULT DUPLEX OUTLET		WALL MOUNTED OCCUPANCY SENSOR
	EXIT SIGN (CEILING MOUNTED)	⊕	GROUND FAULT DUPLEX W/ BOTT. HALF SWITCHED		RELAY
	SECURITY STROBE	⊕	GROUND FAULT DEDICATED OUTLET		CONDUIT RUN, UNDERGROUND
		⊕	CEILING DUPLEX OUTLET		SMOKE DETECTOR
		⊕	DUPLEX ISOLATED GROUND OUTLET		EXTERIOR WALL FIXTURE
		⊕	DOUBLE DUPLEX ISOLATED GROUND OUTLET		EXTERIOR DECORATIVE WALL FIXTURE
		⊕	DEDICATED ISOLATED GROUND		WEATHERPROOF GROUND FAULT
		⊕	SPECIAL PURPOSE OUTLET		
		⊕	CEILING SPECIAL PURPOSE OUTLET		
		⊕	ELECTRICAL PANEL. SEE SHEET E2.1 FOR PANEL SCHED.		
		⊕	HOLD UP EMERGENCY BUTTON		
		⊕	ELECTRICAL MOTOR		
		[SD]	DUCT MOUNTED SMOKE DETECTOR		
		[C]	CONNECTION TO EQUIPMENT		

ELECTRICAL LEGEND NTS **D**

- THERE SHALL BE U.L. LISTED SERIES RATING BETWEEN CKT. BREAKERS LOCATED AT THE DISTRIBUTION PANEL AND THE DOWNSTREAM 10k A.I.C. RATED CIRCUIT BREAKERS AT PANELS "A", "B" DUAL-LINE EQUIPMENT CABINET BASED ON THE MAXIMUM FAULT CURRENT AS DETERMINED AT THE SERVICE ENTRANCE AND DOWNSTREAM 22k A.I.C. RATED CIRCUIT BREAKERS AT PANEL "D."
- SEE SCOPE OF WORK FOR DETAILS REGARDING OWNER SUPPLIED AND/OR INSTALLED PRODUCTS. GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL OTHER ASPECTS OF THE PROJECT
- IF UTILITY COMPANY PROPOSES A SERVICE DIFFERENT FROM THAT ILLUSTRATED, CONTACT THE CONSTRUCTION ENGINEER FOR A DECISION BEFORE PROCEEDING. COORDINATE AVAILABLE SHORT CIRCUIT CURRENT W/ LOCAL UTILITY AND PROVIDE CIRCUIT BREAKERS W/ SUFFICIENT INTERRUPTING CAPACITY.
- COORDINATE CT METERING COMPARTMENT SIZE WITH LOCAL UTILITY COMPANY. THE LOCAL ELECTRICAL INSPECTOR AND THE NATIONAL ELECTRICAL CODE TO MEET ALL REQUIREMENTS BEFORE PURCHASE AND INSTALLATION. NEW METER BY LOCAL UTILITY COMPANY.
- ALL WIRING SHOWN SHALL BE COPPER TYPE "THHN/THWN" EXCEPT FEEDERS FROM UTILITY TRANSFORMER TO SWITCH BOARD MAY BE ALUMINUM.
- ARMOR CABLE ACCEPTABLE FOR THE LAST 6'-0" FROM A JUNCTION BOX TO LIGHT FIXTURES. ARMOR CABLE IS NOT ALLOWED FOR NON-ACCESSIBLE FLOORS, WALLS AND CEILINGS.

ONE LINE DIAGRAM GENERAL NOTES NTS **C**

- WIRE ISOLATED GROUND TO ISOLATION GROUND BUS IN PANEL AND LAND ISOLATED GROUND TO SINGLE POINT GROUND. "DO NOT COMBINE COMMON GND TO ISOLATED GROUND". REF DETAIL 6/E3.1.
- PROVIDE 100% RATED MAIN CIRCUIT BREAKER IN MDP.
- PROVIDE 2" CONDUIT STUBBED INTO BUILDING FROM LATERAL POLE FOR TELEPHONE AND 2" CONDUIT FOR FUTURE HIGH SPEED CABLE.
- VERIFY AVAILABLE FAULT CURRENT AT SERVICE ENTRANCE WITH THE UTILITY COMPANY. IF THE AIC RATING AS INDICATED IS NOT SUFFICIENT, CONTACT PROJECT MANAGER AND ENGINEER PRIOR TO BID/PRICING TO UPDATE EQUIPMENT RATING.
- (3) 5/8" DIA. x 10'-0" COPPER CLAD GROUND RODS. INSTALL 10'-0" APART AND CONNECT GROUND SYSTEM PER N.E.C. ARTICLE 250
- PROVIDE UNDERGROUND SERVICE LATERAL TO UTILITY TRANSFORMER PER SERVING UTILITY COMPANY SPECIFICATIONS. 4#350 KCMIL CU. IN EACH OF (2) 3" C. TO PAD MOUNT TRANSFORMER. GC/ELECT. CONTRACTOR SHALL COORDINATE SERVICE POLES PER LOCAL UTILITY CODE. IF ALUMINUM CONDUCTORS ARE USED PROVIDE 4#500 KCMIL CU. IN EACH (2) 3-1/2" C.

ONE LINE DIAGRAM KEY NOTES NTS **B**

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TACO BELL
 18708 TELEGRAPH ROAD
 BROWNSTOWN, MI 48183



ENDEAVOR 2.0
ELECTRICAL ONE LINE DIAGRAMS AND LEGEND
E2.0

PLOT DATE: 3/9/2022 10:39:18 AM



COMMERCIAL KITCHEN EQUIPMENT SCHEDULE

EQUIPMENT IDENTIFICATION			EQUIPMENT ELECTRICAL CHARACTERISTICS					EQUIPMENT CIRCUIT					EQUIPMENT DISCONNECT				
TAG	TYPE	EQUIPMENT NAME	V/Ph - WATTS	FLA/LRA	MCA	TIME DELAY FUSE	INVERSE-TIME BREAKER	SETS	BRANCH CIRCUIT	WIRE TYPE	CONDUIT TYPE	TYPE	SIZE	NEMA	SUPPLIED BY	INSTALLED BY	NOTES
B-223	O	B-223 WATER HEATER IGNITION	120 V/1-744 VA	6.2	7.2	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
B-381	O	CO2 CARBON DIOXIDE SENSOR / WARNING	120 V/1-156 VA	1.0	1.3	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
C-026	KR	FRYER	120 V/1-972 VA	8.1	9.8	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	1,2
C-107	O	REETHERMALIZER	120 V/1-240 VA	2.0	2.5	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	1,2
C-400	O	COOK TIMER	120 V/1-100 VA	0.3	0.4	15	15	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	15	5-15	ES	ES	2
DCL	O	DUAL COOK LINE	208 V/3-52000 VA	145	145	200	200	1	4#3/0 W/#6 G IN 2"C	CU	ST	DIRECT	200	J-BOX	ES	ES	8
E1AN	O	TBANS SHUNT PANEL	120 V/1-500 VA	6.3	7.9	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	DIRECT	20	1	ES	ES	8
F-040	O	OFFICE COMPUTER	120 V/1-300 VA	2.5	3.1	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
F-050	O	CREDIT CARD SATELLITE ROUTER JUNCTION	120 V/1-500 VA	4.0	5.0	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
F-090	O	UPS	120 V/1-500 VA	4.0	5.0	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
F-174	O	SAFE W/TOUCHSCREEN CONTROLS	120 V/1-360 VA	3.0	3.8	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
IR-01	O	IRRIGATION TIMER	120 V/1-500 VA	2.0	3.0	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	DIRECT	20	1	ES	ES	8
L-043	O	INTERIOR ROTATING MENU BOARD & REMOTE ALARM LT	120 V/1-500 VA	9.0	11.8	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
L-044	KR	WARMER R TO L	120 V/1-1800 VA	16.0	16.0	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
L-045	KR	WARMER R TO L	120 V/1-1800 VA	16.0	16.0	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
N-043	KR	POWER SOAK	208 V/2-4740 VA	11.4	14.25	15	15	1	#12 W/#12 G IN 3/4"C	CU	ST	DIRECT	20	J-BOX	ES	ES	8
N-044	O	S-204 D/T TIMING SYSTEM	120 V/1-216 VA	7.2	9.0	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
P-417	O	TIMER - 8 CHANNEL	120 V/1-180 VA	0.5	0.7	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
P-452	KR	HOT WATER SYSTEM	208 V/2-4026 VA	19.6	24.5	30	30	1	#10 W/#10 G IN 3/4"C	CU	ST	C&P	30	6-30	ES	ES	2
R-009	KM	R-009 FULL HEIGHT FREEZER	120 V/1-1140 VA	9.5	11.9	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
S-204	O	S-204 D/T TIMING SYSTEM	120 V/1-216 VA	7.2	9.0	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
S-284	KM	BEVERAGE DISPENSER S/S	120 V/1-1116 VA	9.3	12	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
S-285	KM	S-284 BEVERAGE DISPENSER (D/T)	120 V/1-1428 VA	11.9	14.9	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
S-289	O	CREDIT CARD SATELLITE ROUTER JUNCTION	120 V/1-200 VA	4.0	5.0	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
S-513	KM	CARBONATOR	120 V/1-138 VA	2.3	2.9	15	15	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	15	5-15	ES	ES	2
S-544	O	ICED TEA	120 V/1-240 VA	2.0	2.5	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
S-546	O	BREWER	120 V/1-480 VA	4.0	5.0	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
S-570	KM	CARBONATOR	120 V/1-138 VA	2.3	2.9	15	15	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	15	5-15	ES	ES	2
S-739	KM	S-739 FROZEN BEVERAGE DISPENSER	208 V/2-3120 VA	31.6	39.5	30	30	1	#10 W/#10 G IN 3/4"C	CU	ST	C&P	30	6-30	ES	ES	2
SCL	O	SINGLE COOK LINE (OPTIONAL)	208 V/3-28800 VA	80	80	125	125	1	4#1 W/#6 G IN 2"C	CU	ST	DIRECT	200	J-BOX	ES	ES	8
U-011	O	BASE STATION - D/T COMM. SYSTEM	120 V/1-180 VA	2	.24	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
U-050	O	CREDIT CARD SATELLITE ROUTER JUNCTION		1.5	1.9	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
U-061	O	RECEIPT PRINTER		1.5	1.9	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
U-070	O	CREDIT CARD READER	120 V/1-180 VA	1.5	1.9	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
W-XX1	KM	W-075-2 WALK-IN FREEZER	208 V/3-0 VA	11.6	14.5	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	DIRECT	20	J-BOX	ES	ES	2

TYPE: H-HEATING, C-COOLING, KR-KITCHEN RESISTIVE, KM-KITCHEN MOTOR, WH-WATER HEATER, OM-OTHER MOTORS, O-OTHER DISCONNECT TYPE: HP-HP RATED SWITCH, C&P-CORD & PLUG, LC&P-LOCKING CORD & PLUG, F-FUSED, NF-NON-FUSED, MCCB-MOLDED CASE CIRCUIT BREAKER SUPPLIED/INSTALLED BY: EC-ELECTRICAL CONTRACTOR, HC-HVAC CONTRACTOR, PC-PLUMBING CONTRACTOR, ES-EQUIPMENT SUPPLIER *VOLTAGE DROP CALCULATION FORMULAS COURTESY OF COOPER BUSSMANN.*

- NOTES: 1 - REQUIRES SHUNT TRIP PROTECTION
 2 - CORD & PLUG SUPPLIED AND INSTALLED BY ES. EC SHALL PROVIDE RECEPTACLE.
 3 - CORD & PLUG SUPPLIED AND INSTALLED BY ES. RECEPTACLE SUPPLIED BY ES AND INSTALLED BY EC.
 4 - CORD, PLUG & RECEPTACLE SUPPLIED AND INSTALLED BY EC.
 5 - SINGLE PHASE, THREE WIRE EQUIPMENT. PROVIDE NEUTRAL CONDUCTOR AND GROUND.
 6 - THREE PHASE, FOUR WIRE EQUIPMENT. PROVIDE NEUTRAL CONDUCTOR AND GROUND.
 7 - OUTLETS SUPPLIED AND INSTALLED BY ES. CONDUIT & WIRING PROVIDED BY EC.
 8 - HARDWIRED CONNECTION BY E.C.

REFER TO ARCHITECTURAL EQUIPMENT SCHEDULE FOR ALL KITCHEN EQUIPMENT AND FINAL COORDINATION

Panel: D

Location: MSB
 Supply From: MSB
 Mounting: Recessed
 Enclosure: Type 1

Volts: 120/208 Wye
 Phases: 3
 Wires: 4

A.I.C. Rating: SERIES
 Mains Type: M.L.O.
 Mains Rating: 400 A
 MCB Rating: N/A

Notes:

NOTES	CKT	Load Name	Trip	Poles	A	B	C	Poles	Trip	Load Name	CKT	NOTES	
GF	1	CARBONATOR	15 A	1	276 VA	0 VA			1	20 A	Spare	2	
GF	3	B-223 WATER HEATER IGNITION	20 A	1		744 VA	1000...		1	20 A	ALTERNATE PAYMENT ROUTER BOX...	4	
	5	OC SWITCHED RECEPTACLE	20 A	1			180 VA	680 VA	1	20 A	IRRIGATION TIMER AND RECEPTACLE	6	
GF	7	S-540 PEPSI BOOSTER TANK	20 A	1	564 VA	500 VA			1	20 A	MUSIC SYSTEM J-BOX AND...	8	
	9	RECEPTACLES - ROOF	20 A	1		540 VA	1560...		2	30 A	S-739 FROZEN BEV. DISP.	10	
	11	CONVICIENCE RECEPTACLES	20 A	1			360 VA	1560...				12	
GF	13	GENERAL PURPOSE RECEPTACLES	20 A	1	1440...	1600...			2	20 A	ICE MAKER CONDENSER D/T	14	
	15	DRINK FOUNTAIN - S-284 AND R-XX1	20 A	1		1254...	1600...					16	
	17	ICE MAKER CONDENSER	20 A	2			1600...	1600...	2	20 A	ICE MAKER CONDENSER	18	
	19				1600...	1600...						20	
GF	21	S-550 BAG IN BOX RACK	20 A	1		564 VA	2370...		2	20 A	POWER SOAK	22	
	23	S-381 AMPROBE CO2 MONITOR	20 A	1			156 VA	2370...				24	
	25				5040...	500 VA			1	20 A	MUSIC SYSTEM (MUZAK)	26	
	27	RTU-1	50 A	3			5040...	1200...				28	
	29						5040...	1200...	3	15 A	WALK-IN COOLER	30	
	31				5040...	1200...						32	
	33	RTU-2	80 A	3			5040...	1393...				34	
	35						5040...	1393...	3	20 A	WALK-IN FREEZER	36	
	37	Spare	20 A	1	0 VA	1393...						38	
	39	Spare	20 A	1			0 VA	0 VA	1	20 A	Spare	40	
	41	Spare	20 A	1				0 VA	0 VA	1	20 A	Spare	42
					Total Load:	20753 VA	22305 VA	21179 VA					
					Total Amps:	173 A	186 A	177 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Power	4928 VA	100.00%	4928 VA	
HVAC	30240 VA	100.00%	30240 VA	Total Conn. Load: 64237 VA
Receptacle	2300 VA	100.00%	2300 VA	Total Est. Demand: 60951 VA
				Total Conn. Current: 178 A
				Total Est. Demand Current: 169 A

Notes:

CIRCUIT BREAKER/MISC. ACC. ABBREVIATIONS:

- GF - GROUND FAULT CIRCUIT INTERRUPTER
- AF - ARC-FAULT CIRCUIT INTERRUPTER
- ST - SHUNT TRIP
- HL-ON - HANDLE-LOCK ON DEVICE
- HL-OFF - HANDLE-LOCK OFF DEVICE
- EPD - EQUIPMENT PROTECTION DEVICE
- IG - ISOLATED GROUND

DATE	REMARKS
03.11.22	Issued for Construction

CONTRACT DATE: 06.22.21
 BUILDING TYPE: END, MED20
 PLAN VERSION: MARCH 2021
 BRAND DESIGNER: DICKSON
 SITE NUMBER: 315089
 STORE NUMBER: 40164
 PA/PM: SM
 DRAWN BY.: AJR
 JOB NO.: 2019088.31

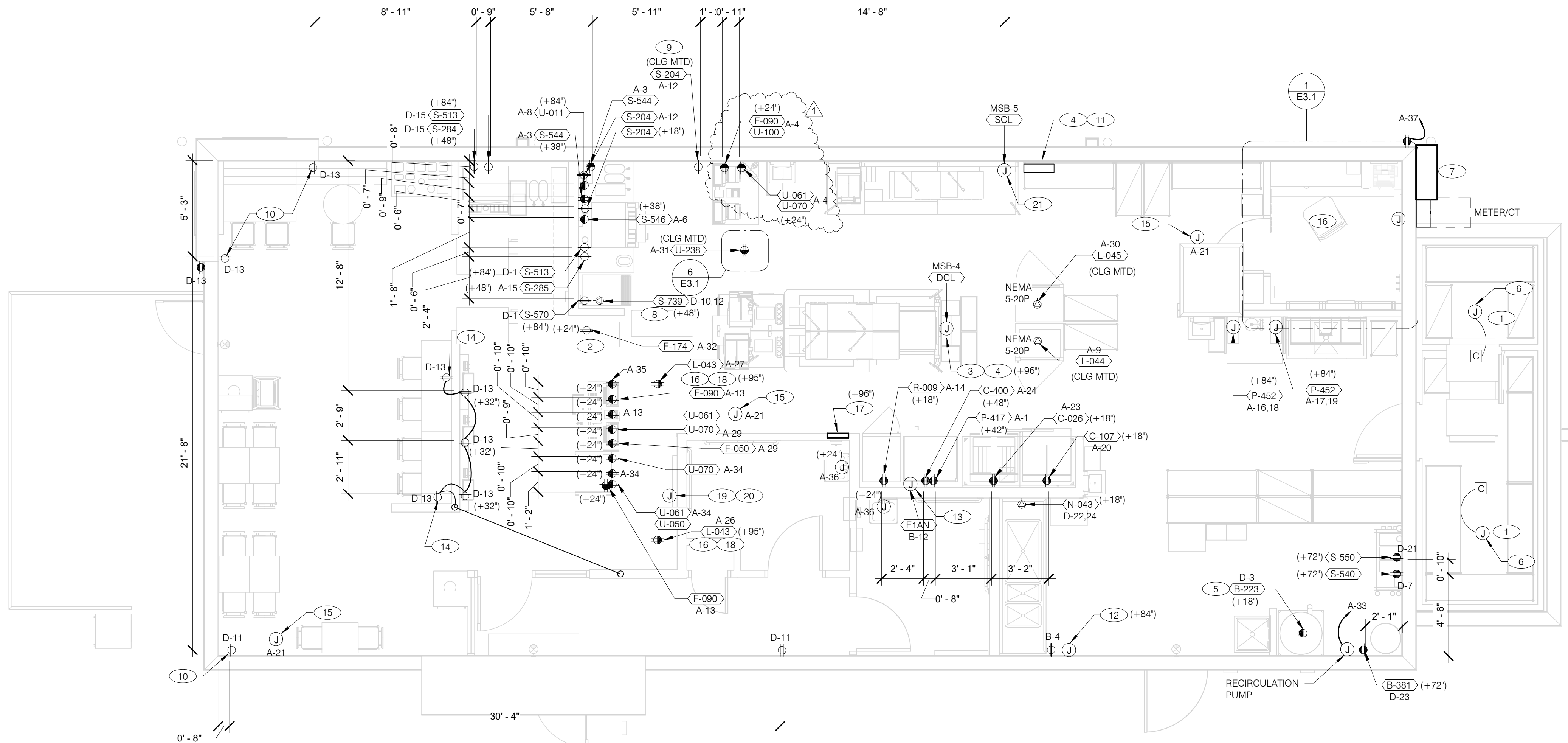
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 BROWNSTOWN, MI 48183



ENDEAVOR 2.0 ELECTRICAL SCHEDULES

E2.2



RECEPTACLE NOTE: ALL RECEPTACLES IN PUBLIC AREAS SHALL BE TAMPER RESISTANT.

NOTE: 5mA GFCI BREAKERS MUST BE USED WHERE OUTLETS REQUIREING GFCI PROTECTION ARE NOT ACCESSIBLE FOR COMPLIANCE WITH NEC 210.8. WHERE GFCI PROTECTION AND SHUNT TRIP IS REQUIRED, THE CIRCUIT SHALL HAVE A GFCI BREAKER AND PASS THROUGH THE TRANS PANEL REFER TO DETAILS IN E7.0 AND E7.1.

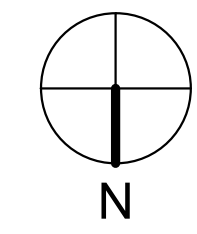


Table with 2 columns: DATE, REMARKS. Row 1: 09.17.21 Health Comments. Row 2: 03.11.22 Issued for Construction.

CONTRACT DATE: 06.22.21 BUILDING TYPE: END, MED20 PLAN VERSION: MARCH 2021 BRAND DESIGNER: DICKSON SITE NUMBER: 315089 STORE NUMBER: 40164 PA/PM: SM DRAWN BY.: AJR JOB NO.: 2019088.31

POWER PLAN 1/4" = 1'-0" A

- GENERAL NOTES - ELECTRICAL POWER PLAN NTS. A. ALL DIMENSIONS TO J-BOXES ARE FROM FACE OF STUD TO CENTER OF BOX, U.O.N. B. ALL CONDUIT DROPS ARE INSIDE WALLS U.O.N. SEE ARCH. DWGS FOR WALL DIMS. C. ALL J-BOX CIRCUITS, CONDUITS, FIXTURES, ETC. SHALL BE AS INDICATED ON THE ELECT. DWGS AND SPECS. D. CONTRACTOR SHALL VERIFY UNDERGROUND CONDUIT LOCATIONS PRIOR TO POURING SLAB. E. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THIS DATA ON THE LOCATION OF ELECT. ROUGH-INS WITH INFO PROVIDED ON THE ARCH. AND STRUCT. DWGS AND THE EQUIPMENT ACTUALLY SUPPLIED, AND TO CONFIRM THE CORRECTNESS OF ANY DIMENSIONS HEREIN. F. LOCATIONS OF ALL OUTLETS MAY BE RELOCATED TO NEAREST STUD. DO NOT CUT INTO STUDS. G. FOR EXACT LOCATIONS OF KITCHEN & MECHANICAL EQUIPMENT AND POINTS OF CONNECTION, REFER TO KITCHEN & MECHANICAL EQUIPMENT DRAWINGS AND MANUFACTURERS SHOP DRAWINGS. H. ALL CIRCUIT FEEDERS AND DISCONNECTS SHALL BE SIZED BY NEC. I. CONTRACTOR SHALL VERIFY CIRCUIT BREAKER, DISCONNECT SWITCH, STARTER AND FUSE SIZES WITH SELECTED EQUIPMENT MANUFACTURERS SHOP DRAWINGS PRIOR TO PLACING ORDER AND PROVIDE EVERYTHING AS REQUIRED. J. ELECTRICAL EQUIPMENT ENCLOSURES SHALL BE NEMA-1 FOR INTERIOR AND NEMA 3R FOR EXTERIOR. IN COASTAL REGIONS THE STANDARD FOR OUTSIDE SHALL BE NEMA-4X. K. PER SECTION 210.8 NEC 2017, ALL SINGLE PHASE RECEPTACLE RATED 150 VOLTS TO GROUND OR LESS, 50 AMPERS OR LESS AND THREE-PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 100 AMPERERS OR LESS. L. DO NOT MEASURE/LOCATE OUTLETS ON DRAWINGS. USE DIMENSIONS PROVIDED. M. CONDUIT MAY RUN UNDER SLAB AT G.C.'S DISCRETION. N. E.C. SHALL PROVIDE A PREPRINTED SELF-ADHESIVE LABEL ON ALL POS RECEPTACLES STATING "POS USE ONLY". O. PROVIDE ESCUTCHEON PLATES AND SEALANT AT ALL UTILITY PENETRATIONS INTO WALLS, CEILING, AND FLOORS. DO NOT USE CAULKS OR EXPANSION FOAM FOR SEALANT. P. ARMOR CABLE (BX) ALLOWED WHERE ACCEPTABLE BY CODE. ALL WIRE SHALL BE CONCEALED O.N.U. Q. FOR ALL CIRCUITS NOT SHOWN ON EQUIPMENT SCHEDULE, CONTRACTOR SHALL PROVIDE CONDUCTOR AND CONDUIT SIZES AS SHOWN ON BRANCH CIRCUIT WIRING SCHEDULE SHOWN ON E2.2. IF SIZES DIFFER FROM N.E.C., THE MORE STRINGENT (LARGER) SIZE SHALL BE PROVIDED. R. OUTLETS WITHIN FOH TO BE AT 18" AFF FOR ADA ACCESS. S. CONDUITS NEAR DRIVE THRU WINDOW AREA TO BE ROUTED FROM ABOVE CEILING OR STUBBED UP FROM UNDER SLAB SO AS TO NOT INTERFERE WITH WINDOW FRAMING.

- REFER TO ROOF PLAN. INSTALL IN CONDUIT RUNNING ON SURFACE OF KITCHEN SIDE OF CABINERY REAR WALL. CONNECT PRODUCTION LINE CIRCUIT BREAKER PANEL VIA UTILITY CHASE IN CEILING TO A 3 POLE, 200 AMP CIRCUIT BREAKER IN MAIN SWITCHBOARD. SEE SHEET E2.0. VERIFY ALL REQUIREMENTS WITH ACTUAL EQUIPMENT SPECIFIED. THE MANUFACTURER WILL FULLY PRE-WIRE THE COMPLETE MAPS LINE AT THE FACTORY. THE UNITS WILL THEN BE PULLED APART FOR SHIPPING PURPOSES. ALL CONNECTION POINTS WILL BE MARKED. THE CONDUIT RUNS WILL BE COILED UP FOR FIELD INSTALLATION. SOME ELECTRICAL COMPONENTS MAY BE REMOVED FOR EASE OF DISASSEMBLING THE LINE-UP. THE ELECTRICAL CONTRACTOR WILL BE FULLY RESPONSIBLE FOR MAKING THE PROPER FIELD CONNECTIONS FROM THE ROUGH-IN LOCATION TO THE MANUFACTURER PROVIDED BREAKER PANEL BOX. IN ADDITION, THE ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR ANY SPLICE POINTS AND/OR JUNCTION BOXES THAT NEED TO BE RECONNECTED. SOME ELECTRICAL COMPONENT ASSEMBLY MAY ALSO BE REQUIRED. EQUIPMENT CABINET. LOCATED INSIDE SHELL OF HEATER. INSTALL CONTROL CABLE FROM FREEZER/COOLER FAN COIL TO ROOF MOUNTED CONDENSOR. LOCATE SWITCHGEAR PER GUIDELINES ON SHEET A4.1. PROVIDE BOOST TRANSFORMER (208V, 1-PHASE IN, 240V, 1-PHASE OUT) FOR FROZEN BEVERAGE DISPENSER. CEILING MOUNTED FOR WALL MOUNTED HME. SEE 7/E3.1. PROVIDE DUPLEX RECEPTACLE WITH TWO (2) USB CHARGING PORTS. VERIFY PANEL LOCATION OF COOK LINE WITH TACO BELL CONSTRUCTION MANAGER PRIOR TO INSTALLATION. PROVIDE J-BOX FOR POWER SOAK INDICATOR LIGHT. (OPTIONAL) VERIFY LOCATION OF JUNCTION BOX WITH CONSTRUCTION MANAGER. E.C. SHALL PROVIDE, INSTALL AND WIRE A DUPLEX RECEPTACLE WITH (2) USB POWER PORTS IN SINGLE-GANG BOX PROVIDED WITH TABLE, AT EACH END OF THE TABLE. PROVIDE GALVANIZED COVER PLATE TO MATCH BOX. PROVIDE POWER FOR SECURITY CAMERAS. COORDINATE WITH CAMERA VENDOR, SECURITY, AND CONSTRUCTION SUPERVISOR PRIOR TO ROUGH-IN. QUAD RECEPTACLE FOR FUTURE DIGITAL MENUBOARD. TYPICAL OF 2. 2-GANG FLUSH BOX WITH DEAD-FRONT GFCI DEVICES. MOUNT CENTER OF BOX AT 48" A.F.F.. REFER TO E7.0. EC / GC TO INSTALL A TOTAL OF (2) QUAD OUTLETS IN (2) QUAD BOXES ON FRONT OF VALANCE WALL AS SHOWN. OUTLETS TO BE STRAIGHT BLADE. OUTLETS TO BE ON AN ISOLATED/DEDICATED GROUNDED CIRCUIT THAT IS NOT CONNECTED TO ANY RESTAURANT POWER MANAGEMENT SYSTEM.

- EC / GC TO INSTALL (1) OPEN DATA JUNCTION BOX (JIB) IN VALANCE WALL. CONDUIT TERMINATED ABOVE CEILING TO HAVE BUSHING. EC / GC TO RUN (3) ORANGE CAT 6 LINES FROM NETWORK SWITCH TO ACTUAL EQUIPMENT SPECIFIED. THE MANUFACTURER WILL FULLY PRE-WIRE THE COMPLETE MAPS LINE AT THE FACTORY. THE UNITS WILL THEN BE PULLED APART FOR SHIPPING PURPOSES. ALL CONNECTION POINTS WILL BE MARKED. THE CONDUIT RUNS WILL BE COILED UP FOR FIELD INSTALLATION. SOME ELECTRICAL COMPONENTS MAY BE REMOVED FOR EASE OF DISASSEMBLING THE LINE-UP. THE ELECTRICAL CONTRACTOR WILL BE FULLY RESPONSIBLE FOR MAKING THE PROPER FIELD CONNECTIONS FROM THE ROUGH-IN LOCATION TO THE MANUFACTURER PROVIDED BREAKER PANEL BOX. IN ADDITION, THE ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR ANY SPLICE POINTS AND/OR JUNCTION BOXES THAT NEED TO BE RECONNECTED. SOME ELECTRICAL COMPONENT ASSEMBLY MAY ALSO BE REQUIRED.

GENERAL NOTES - ELECTRICAL POWER PLAN NTS C KEY NOTES - ELECTRICAL POWER PLAN NTS B

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ENDEAVOR 2.0 ELECTRICAL POWER PLAN

E3.0

THE DEDICATED POS POWER CIRCUIT REQUIRES AN ISOLATED GROUND IN ADDITION TO THE NORMAL COMMON BUILDING GROUND. THE ISOLATED GROUND WIRE SERVES TWO PURPOSES:
* AS A SAFETY PATH TO GROUND.
* AS A ZERO REFERENCE POINT FOR ALL POS DIGITAL LOGIC.

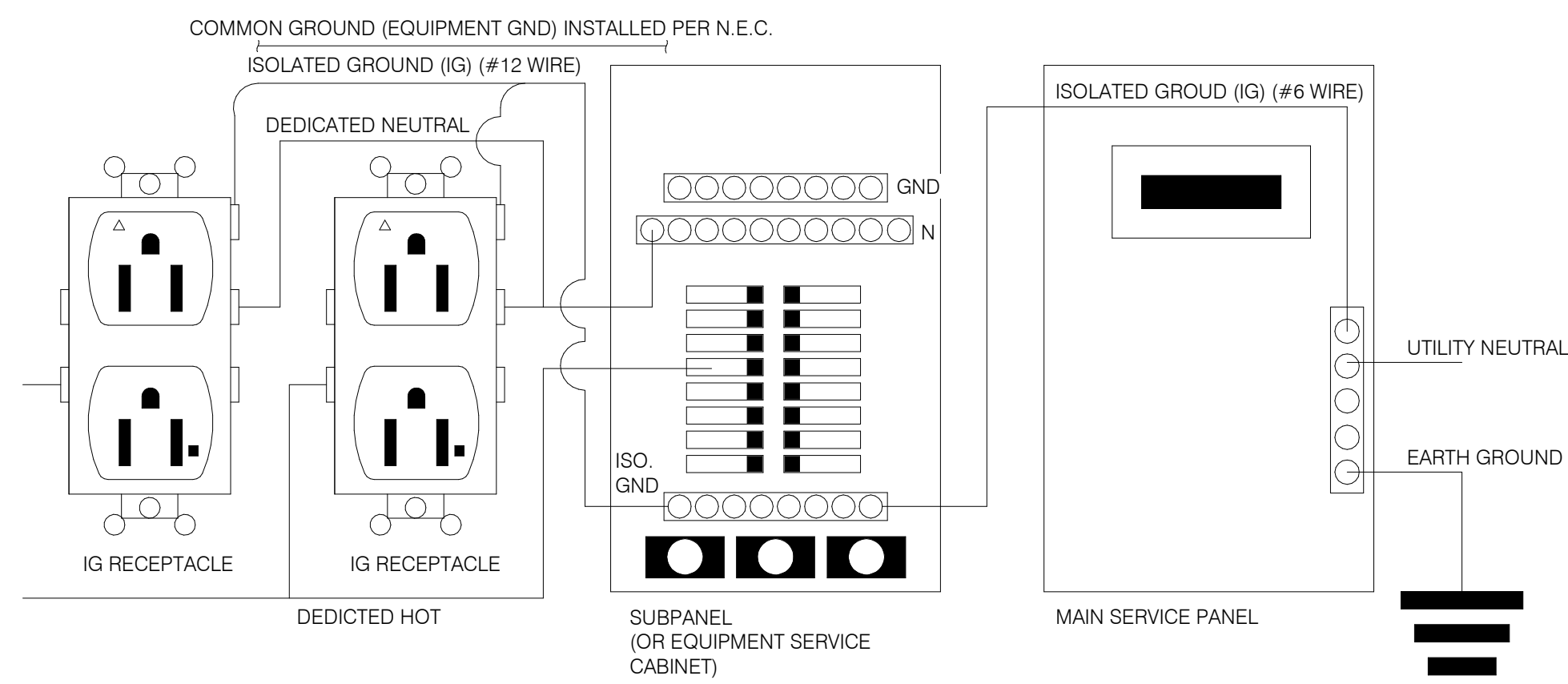
THE GROUND MUST EXHIBIT THE LOWEST POSSIBLE IMPEDANCE TO MINIMIZE VOLTAGE TRANSIENTS AND NOISE.

BE SURE TO:

- * USE AN INSULATED CONDUCTOR FOR THE ISOLATED GROUND WIRE.
- * RUN THE ISOLATED GROUND WIRE THROUGH THE SAME CONDUIT AS THE HOT AND NEUTRAL WIRES.
- * INSTALL ONLY ISOLATED GROUND (IG) TYPE RECEPTACLES.
- * CONNECT THE ISOLATED GROUND WIRE TO BUILDING GROUND ONLY AT THE MAIN SERVICE PANEL.
- * VERIFY THAT IG RECEPTACLES PRE-WIRED IN OWNER SUPPLIED EQUIPMENT HAVE A TRUE ISOLATED GROUND THAT CAN BE TRACED BACK TO THE BUILDING GROUND AT THE MAIN SERVICE PANEL.

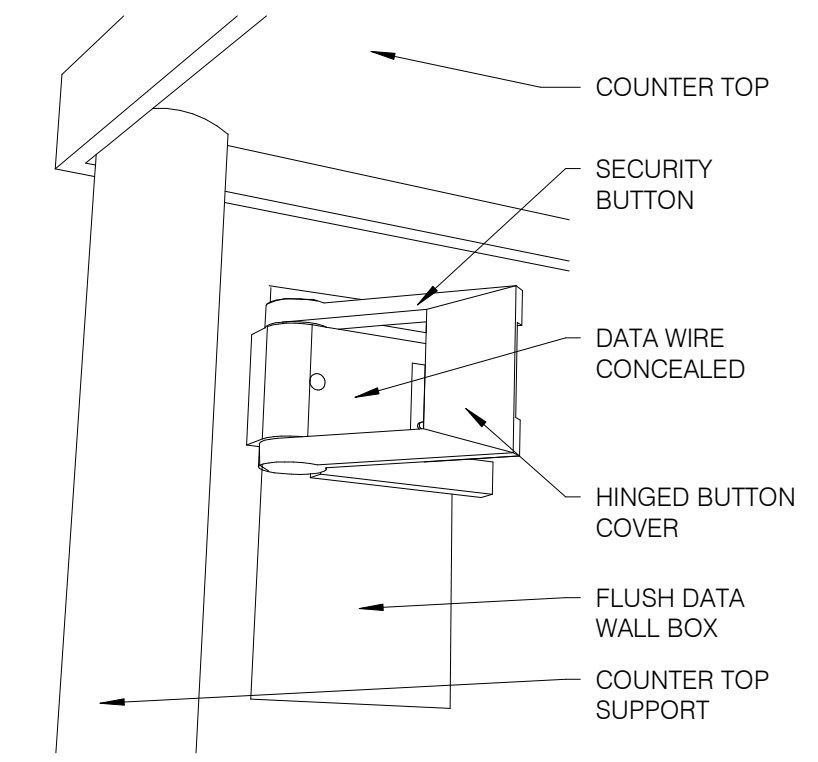
DO NOT CONNECT THE ISOLATED GROUND WIRE TO THE CONDUIT, JUNCTION BOXES, THE FRAME ON A SUBPANEL, OR ANY OTHER METAL SURFACE.

DEDICATED CIRCUITS: DEDICATED CIRCUITS REQUIRE A DEDICATED HOT AND A DEDICATED NEUTRAL THAT ARE NOT SHARED WITH ANY OTHER CIRCUITS. IG RECEPTACLES MUST BE "PHASE ALIGNED" WITH THE "B" PHASE OF BUILDING SUBPANEL "A".

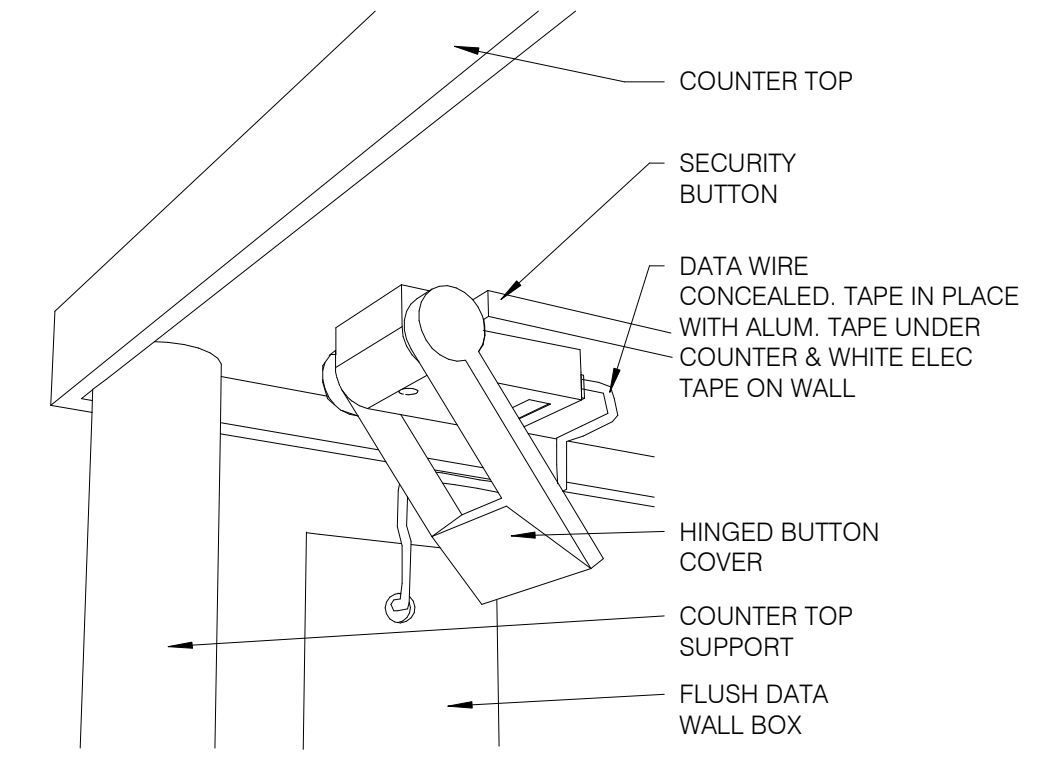


NOTE: IN LIEU OF GFCI OUTLETS YOU CAN USE GFCI CIRCUIT BREAKERS TO SAVE COSTS

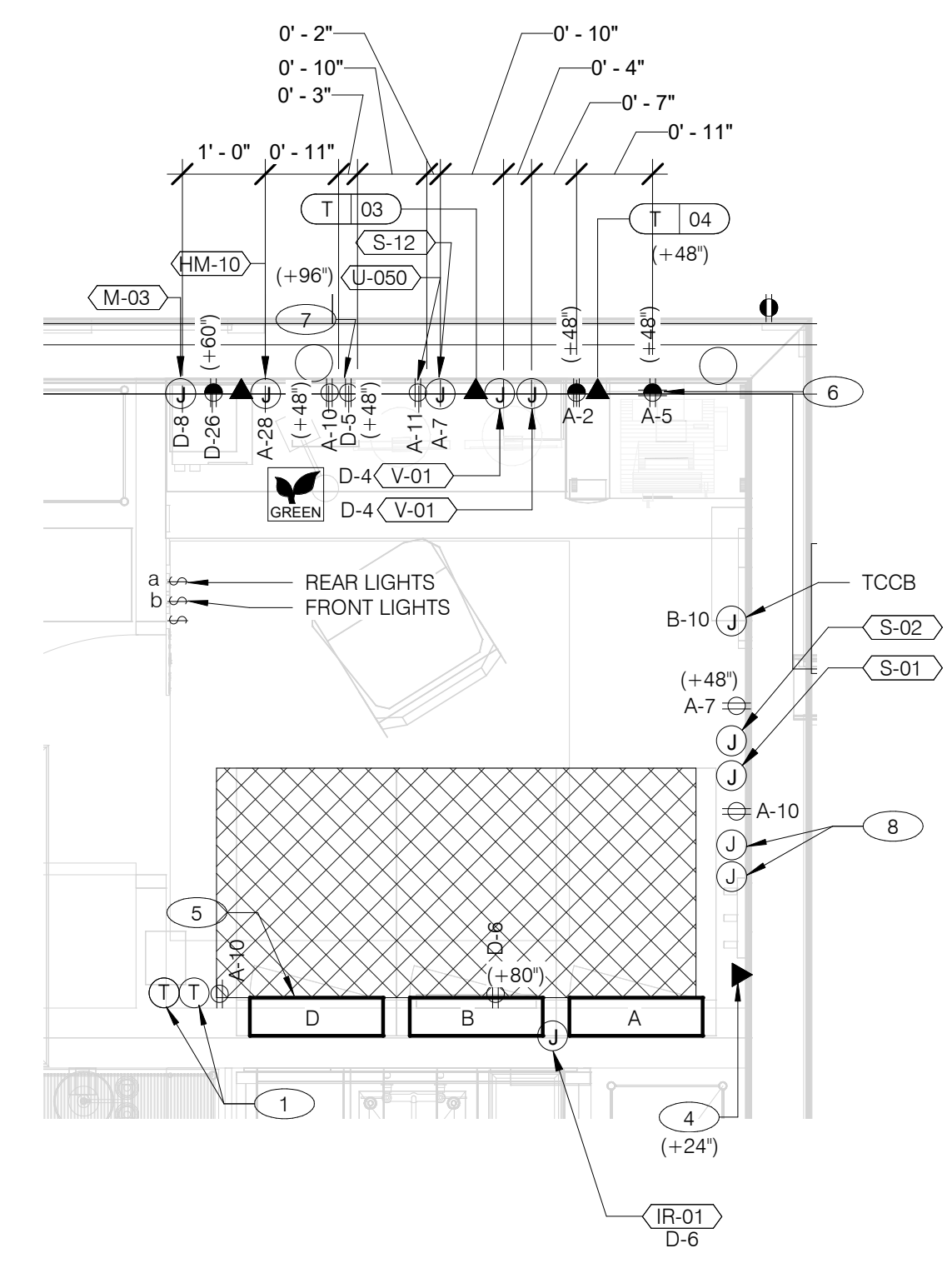
P.O.S. ISOLATED GROUND SYSTEM NTS **6**



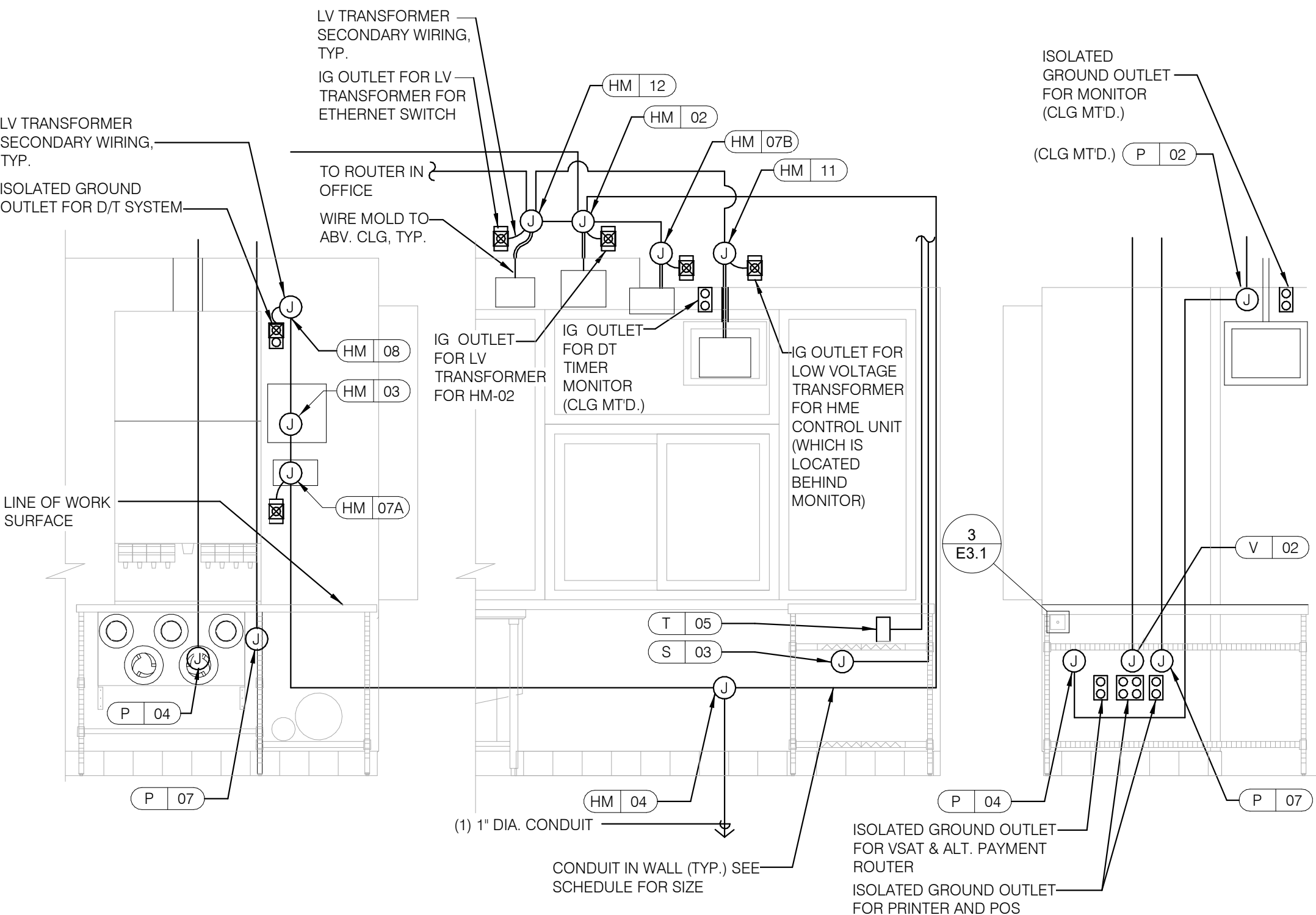
SECURITY BUTTON ON WALL NTS **3**



SECURITY BUTTON UNDER COUNTER NTS **4**



ENLARGED POWER AND COMMUNICATIONS PLAN (OFFICE) 1/2" = 1'-0" **1**



REFER TO COMMUNICATIONS SCHEDULE ON SHEET E5.0 FOR EQUIPMENT DESCRIPTIONS/MOUNTING HTS.

ENLARGED INTERIOR ELEVATION (D/T WINDOW) NTS **7**

NOTE
TBCCB AND TBANS REQUIRE VISUAL INSTALLATION VERIFICATION CERTIFICATE. CONTACT CERTIFY@ACE-BCX.COM OR CALL 949 770 2222 FOR CERTIFICATE. SEE SHEET SW2.0

- 1 THERMOSTATS CONTROLS.
- 2 NOT USED.
- 3 NOT USED.
- 4 PHONE JACK FOR MODEM.
- 5 LOCATION OF TBCCB COMBINED CONTROL BOX. COORDINATE EXACT LOCATION IN THE FIELD. CONSIDER OPERATOR NEED TO ACCESS SWITCHES ON THE FRONT OF THE CONTROL BOX AND BUILT IN OCCUPANCY SENSOR FOR MANAGERS OFFICE.
- 6 DATA JACK FOR TECH-IN-A-BOX WITH 2 PORTS.
- 7 ROUTE CIRCUIT THROUGH TBCCB OCCUPANCY SENSOR FOR CONTROLLED RECEPTACLE.
- 8 PROVIDE BACK-BOX AND CONDUIT WITH PULLSTRING FOR REMOTE TEST STATIONS PROVIDED BY MECHANICAL. COORDINATE REQUIREMENTS WITH MECHANICAL.

KEY NOTES - ELECTRICAL ENLARGED DETAILS NTS **2**

DATE	REMARKS
03.11.22	Issued for Construction

CONTRACT DATE: 06.22.21
BUILDING TYPE: END. MED20
PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 315089
STORE NUMBER: 40164
PA/PM: SM
DRAWN BY.: AJR
JOB NO.: 2019088.31

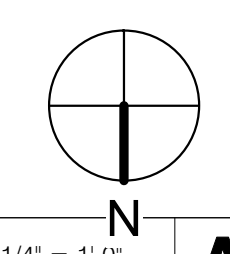
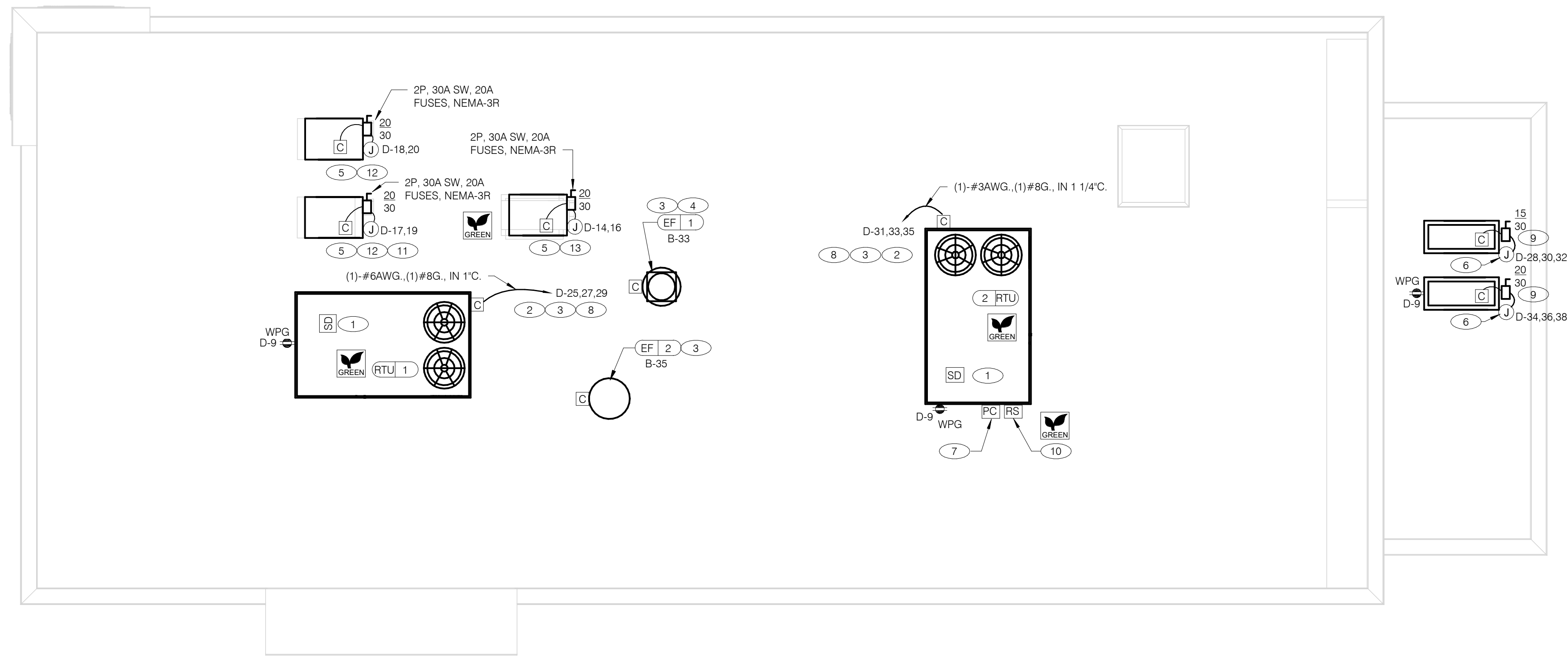
TACO BELL
18708 TELEGRAPH ROAD
BROWNSTOWN, MI 48183



ENDEAVOR 2.0
ENLARGED POWER PLAN AND DETAILS

E3.1

PLOT DATE: 3/9/2022 10:39:27 AM



POWER ROOF PLAN 1/4" = 1'-0" **A**

GENERAL NOTES - ELECTRICAL POWER ROOF PLAN NTS **C**

A. NO CONDUIT SHALL BE FASTENED DIRECTLY TO OR THROUGH ROOFING MEMBRANE.

B. ALL CUTS IN ROOFING MEMBRANE SHALL BE MINIMAL AND IN ACCORDANCE WITH ROOFING MFRS AND INSTALLER'S REQ'S.

C. REFER TO MECH. DWGS FOR MECHANICAL EQUIPMENT ELECTRICAL REQ'S.

D. ALL EXPOSED ELECTRICAL CONDUITS SHALL PENETRATE ROOF MEMBRANE AT PIPE HOODS U.O.N.

E. REFER TO ELECT. EQUIP. SCHEDULE AND ELECT. ROUGH-IN PLAN.

F. ALL CONDUITS FROM EXHAUST FANS SHALL BE ROUTED INSIDE OF CURB.

G. ALL CONDUITS TO AND FROM RTU SHALL BE ROUTED INSIDE OF RTU CURB. COORDINATE WITH RTU MFR RECOMMENDATIONS.

H. REFER TO GENERAL NOTES SHEET E2.0 FOR IMPORTANT INFORMATION.

I. ALL WIRING AND CONDUITS SHALL BE CONCEALED, NO CONDUITS PERMITTED TO RUN EXPOSED ACROSS ROOF DECK. ROUTE ALL CONDUITS THROUGH EQUIPMENT ROOF CURBS OR ARCHITECT SPECIFIED ROOF PENETRATIONS.

J. ARMOR CABLE (BX) IS ONLY TO BE ALLOWED WHERE ACCEPTABLE BY AUTHORITY HAVING JURISDICTION.

KEY NOTES - ELECTRICAL POWER ROOF PLAN NTS **B**

1 MECHANICAL CONTRACTOR SHALL PROVIDE CONNECTIONS BETWEEN RTU FACTORY SMOKE DETECTORS AND REMOTE ENUNCIATOR, TEST AND RESET DEVICE IN MANAGER OFFICE. ELECTRICAL CONTRACTOR SHALL PROVIDE ANY NECESSARY CONDUITS FOR LOW VOLTAGE WIRING.

2 SPECIFIED RTU IS SUPPLIED WITH UNPOWERED, WEATHERPROOF GFCI CONVIENCE OUTLET AND FACTORY INSTALLED HACR CIRCUIT BREAKER WITH WEATHER TIGHT ENCLOSURES AND ACCESS THRU SWINGING DOOR.

3 POWER AND CONTROL IN FLEXIBLE WATERPROOF CONDUIT (LFMC CONDUIT) TO ENTER FROM SIDE OF THE CURB AND UP TO FACTORY PROVIDED DISCONNECT SWITCH. COORDINATE WITH MECHANICAL CONTRACTOR.

4 CONNECT TO APPROPRIATE TERMINALS OF TBCCB CONTROL BOX. SEE E6.1 FOR DETAILS.

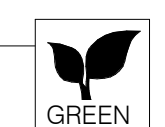
5 1/2" C, WITH REQ'D CONDUCTORS TO J-BOX IN CEILING ABOVE ICE MACHINE. MAKE CONNECTION TO ICE MACHINE AND CONDENSING UNIT.

6 REFER TO POWER PLAN FOR CONTINUATION TO COOLER / FREEZER.

7 CONNECT TO APPROPRIATE PHOTOCELL TERMINALS OF TBCCB CONTROL BOX. SEE E6.1 FOR DETAILS.

8 RTU'S SHALL BE PROVIDED WITH BUILT-IN DISCONNECT AND SINGLE POINT WIRING.

9 CONTRACTOR SHALL VERIFY CIRCUIT BREAKER TYPE, STARTER, DISCONNECT SWITCH, AND FUSE SIZE (IF REQUIRED) WITH SELECTED EQUIPMENT MANUFACTURER'S SHOP DRAWINGS PRIOR TO PLACING ORDER AND FURNISH AND INSTALL EVERYTHING AS REQUIRED.

10 RAIN SENSOR. 

11 PIPE HOOD. SEE 9/A6.0

12 ELECTRICAL CONTRACTOR SHALL MAKE ALL ELEC. CONNECTIONS INCLUDING ALL NECESSARY INTERCONNECTIONS BETWEEN THE COMPRESSOR ON THE ROOF & THE EVAPORATOR IN THE ICE MACHINE AS REQ'D. REFER TO THE MFR'S SHOP DWGS FOR EXACT INSTALL. & INTERCONNECTION RQMTS. PRIOR TO ROUGH-IN INSTALL.

13 1/2" C, WITH REQ'D CONDUCTORS TO J-BOX IN CEILING ABOVE FROZEN BEVERAGE MACHINE. MAKE CONNECTION TO BEVERAGE MACHINE AND ASSOCIATED CONDENSING UNIT.

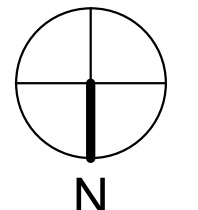
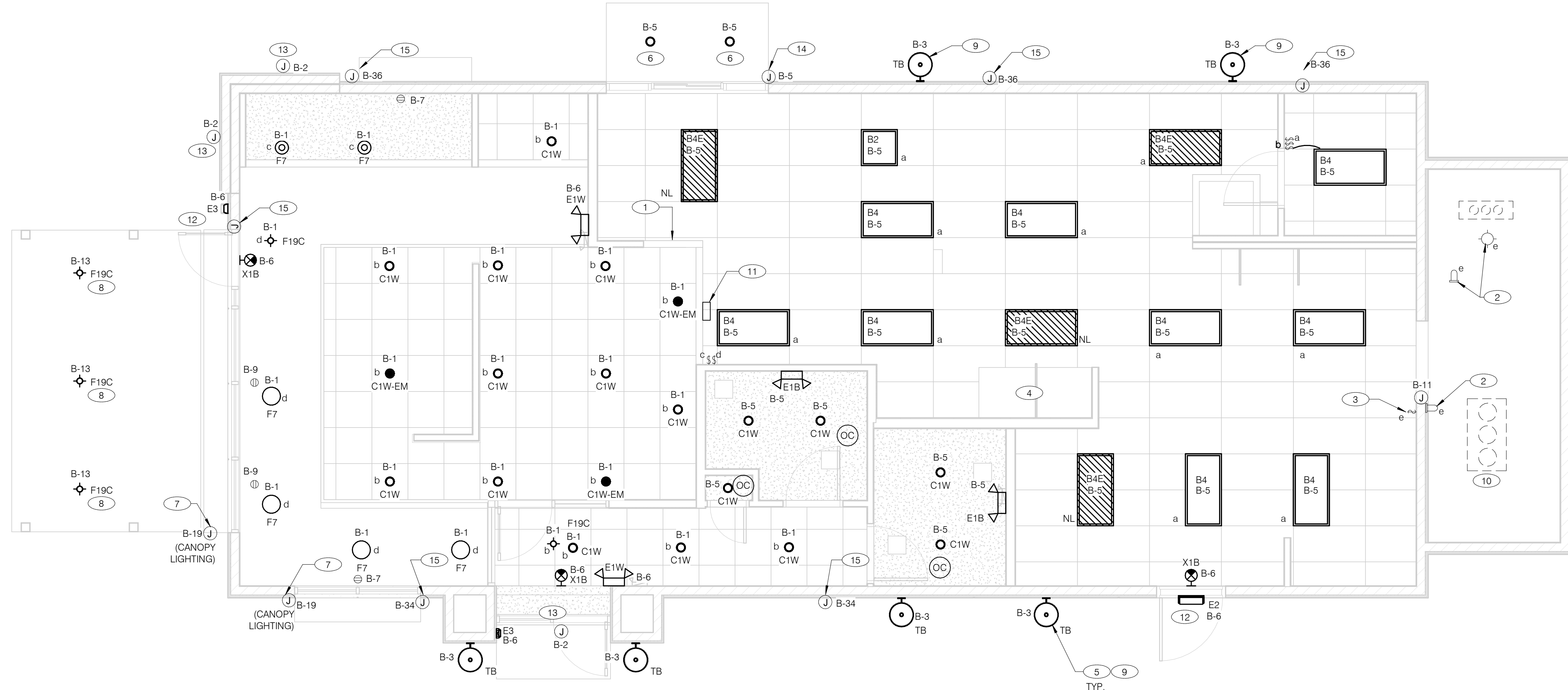
DATE	REMARKS
03.11.22	Issued for Construction

CONTRACT DATE: 06.22.21
BUILDING TYPE: END. MED20
PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 315089
STORE NUMBER: 40164
PA/PM: SM
DRAWN BY.: AJR
JOB NO.: 2019088.31

TACO BELL
18708 TELEGRAPH ROAD
BROWNSTOWN, MI 48183


ENDEAVOR 2.0
**ELECTRICAL
POWER ROOF
PLAN**

E3.2
PLOT DATE: 3/9/2022 10:39:28 AM



- GENERAL NOTES:**
- A. CONFIRM LIGHTING FIXTURE QUANTITIES WITH SUPPLIER.
 - B. EMERGENCY AND NORMAL LIGHTING MARKED WITH "NL" SUBSCRIPT SHALL OPERATE CONTINUOUSLY. PROVIDE UNSWITCHED HOT TO NORMAL AND EMERGENCY BALLAST. EMERGENCY LIGHTING NOT MARKED WITH "NL" SUBSCRIPT SHALL OPERATE UNDER CONTROL OF LIGHTING SWITCH AS INDICATED. PROVIDE UNSWITCHED CONSTANT HOT TO EMERGENCY BALLAST AND SWITCHED HOT TO NORMAL BALLAST.
 - C. ALL CONDUITS ENTERING OR LEAVING COOLER/FREEZER SHALL BE PROVIDED WITH SEAL-OFF FITTING WITH COMPOUND PER NEC 300-17a).
 - D. ALL INTERIOR LIGHTING CIRCUITS TO BE WIRED THROUGH TBCCB . SEE E6.0 AND E6.1.
 - E. CONTRACTOR TO FIELD VERIFY CEILING TYPE AND PROVIDE PROPER MOUNTING HARDWARE.
 - F. ALL FIXTURES SUPPLIED WITH LAMPS.
 - G. ALL EXTERIOR NON-EMERGENCY LIGHT FIXTURES, BUILDING SIGNS, AND EXTERIOR SIGNS SHALL BE CONTROLLED THROUGH PHOTOCELL AND LIGHTING CONTROL RELAYS. SEE E6.0 AND E6.1 FOR ADDITIONAL DETAILS.

ELECTRICAL LIGHTING PLAN 1/4" = 1'-0" **A**

NO.	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	MOUNTING	LAMP #/TYPE	BALLAST TYPE	ELECTRICAL DATA	REMARKS
A	LSI INDUSTRIES	MRM-LED-12L-SIL-FT-40-70CRI-HL	LED POLE LIGHT		LED		120 V/1-187 VA	-
B2	ABB	FLP22-D53W40	2X2 LED TROFFER		LED		120 V/1-45 VA	-
B4	ABB	FLP24-D53W40	2X4 LED TROFFER		LED		120 V/1-45 VA	-
B4E	ABB	FLP24-D53W40-EM	2X4 LED TROFFER		LED		120 V/1-45 VA	PROVIDE 90 MIN. BACK UP BATTERY
C	LSI INDUSTRIES	MRM-LED-24L-SIL-FT-40-70CRI-HL	LED POLE LIGHT	22' LIGHT POLE	LED	NA	120 V/1-187 VA	-
C1W	MAXLITE	B6IC-AT-W-LED14DR5630KB95	LED TRIM 14W 6" RECESSED 30K 80CRI WHITE TRIM, W/ ELITE B6IC-AT-W 6" IC AIR SHUT HOUSING		LED		120 V/1-14 VA	-
C1W-EM	MAXLITE	B6IC-AT-W-LED14DR5630KB95	LED TRIM 14W 6" RECESSED 30K 80CRI WHITE TRIM, W/ ELITE B6IC-AT-W 6" IC AIR SHUT HOUSING		LED		120 V/1-14 VA	PROVIDE 90 MIN. BACK UP BATTERY
D	LSI INDUSTRIES	MRM-LED-24L-SIL-FT-40-70CRI	LED POLE LIGHT		LED		120 V/1-187 VA	-
E1B	ELITE	ELM-809-B	EMERGENCY LIGHT FROG EYE - BLACK	WALL, TOP @ 9'-4" U.O.N.	-	EM	120 V/1-12 VA	-
E1W	ELITE	ELM-809-W	EMERGENCY LIGHT FROG EYE - WHITE	WALL, TOP @ 9'-4" U.O.N.	-	EM	120 V/1-12 VA	-
E2	ELITE	ELM-807-SDT-BZ	CAMRAY LED EM WALL MNT, DRK BRNZ, CLD WEATHER	UNIVERSAL	-	EM	120 V/1-16 VA	-
E3	LITHONIA	AFF-PEL-DOBXTD-UVOLT-LTP-SDR T-WT-CW	SELF-POWERED EMERGENCY WALLPACK W/ PHOTOCELL	8'-6"	LED	EM	120 V/1-20 VA	-
F7	HI-LITES	H24212-96-CB15-20WLB-60P	12" GALVANIZED PENDANT WITH BLACK CORD AND CANOPY MED BASE SOCKET	PENDANT, 6'-0" A.F.F.	1/LED 10A19D0D27K	NA		-
F19C	SPECTRUM LIGHTING	SPC0304INC-MWL(25W)PAR20-CM-180-MB	LED PENDANT - 3"		1/LED LR20/40/27K/975/BK		120 V/1-9 VA	-
TB	ACCUSERV	05247-051/052	WALL SCONCE, CUSTOM DARK BRONZE FINISH	SEE EXTERIOR ELEVATIONS	18W PAR38 LED		120 V/1-36 VA-0 V/1-0 VA	-
X1B	LIGHTALARMS	GRANNRB	LED UNIVERSAL MNTG THERMOPLASTIC EXIT, RED LETTERS, BLACK HSNQ	UNIVERSAL	-/LED	EM	120 V/1-3 VA	-

- 1 PRE-FABRICATED & PRE-FINISHED SOFFIT. REFER TO A7.1 FOR SPECIFICS. (OPTIONAL).
- 2 FOR LIGHTING FIXTURES, CONDUIT, CONDUCTORS AND INSTALLATION RESPONSIBILITIES, REFER TO SCOPE OF WORK.
- 3 FIXTURE AND SWITCH FACTORY INSTALLED WITH UNIT. G.C. TO COMPLETE CIRCUITING.
- 4 EXHAUST HOOD LIGHT FIXTURES SUPPLIED WITH HOOD AND MTD IN PRE-WIRED J-BOX. COMPLETE CIRCUITING PER SHEET E6.1.
- 5 COORD. J-BOX LOCATION WITH WOOD FRAMING SO IT REMAINS CONCEALED BEHIND FIXTURE. VERIFY MOUNTING HEIGHT WITH ARCH. DWGS.
- 6 PROVIDE POWER TO DRIVE THRU CANOPY LIGHTING FIXTURES. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH CANOPY VENDOR AND CONSTRUCTION SUPERVISOR PRIOR TO CONNECTIONS.
- 7 PROVIDE POWER CONNECTION TO CANOPY AT FACTORY INSTALLED DISCONNECT SWITCH FOR CANOPY LIGHTS. LIGHTS ARE FURNISHED WITH CANOPY. PROVIDE ALL REQUIRED FIELD WIRING. COORDINATE REQUIREMENTS WITH MANUFACTURER.
- 8 PROVIDE POWER FOR FREE STANDING CANOPY LIGHTING. E.C. SHALL RUN FEEDERS THROUGH COLUMNS TO LIGHTING FIXTURES. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH LIGHTING VENDOR AND CONSTRUCTION SUPERVISOR PRIOR TO ROUGH-IN.
- 9 REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS ON A4.0 AND A4.1 FOR DIMENSIONED LOCATION OF FIXTURE.
- 10 SEAL ALL ELECTRICAL CONDUITS INTO THE WALK-IN COOLER.
- 11 ALERT LIGHT : ONLY APPLIES WHEN A GEN IV POWER SOAK IS USED. DISREGARD IF GEN III POWER SOAK IS USED. SEE SHEET E3.0 FOR POWER REQUIREMENTS.
- 12 MOUNT 'E3' AT 8'-6" A.F.G. TO CENTER OF FIXTURE.
- 13 VERIFY MOUNTING HEIGHT FOR SIGN POWER WITH ARCHITECTURAL ELEVATIONS AND SIGN VENDOR.
- 14 PROVIDE POWER CONNECTION TO CANOPY AT FACTORY INSTALLED DISCONNECT SWITCH FOR CANOPY LIGHTS. LIGHTS ARE FURNISHED WITH CANOPY. PROVIDE ALL REQUIRED FIELD WIRING. COORDINATE REQUIREMENTS WITH MANUFACTURER.
- 15 PROVIDE POWER CONNECTION TO PURPLE WALLWASH LIGHTS FURNISHED BY SIGN VENDOR. PROVIDE ALL REQUIRED FIELD WIRING. COORDINATE EXACT LOCATIONS WITH ARCHITECTURAL ELEVATIONS. COORDINATE REQUIREMENTS WITH VENDOR.

KEY NOTES - ELECTRICAL LIGHTING PLAN AND SCHEDULE NTS **B**

DATE	REMARKS
03.11.22	Issued for Construction

CONTRACT DATE: 06.22.21
BUILDING TYPE: END. MED20
PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 315089
STORE NUMBER: 40164
PA/PM: SM
DRAWN BY: AJR
JOB NO.: 2019088.31

TACO BELL

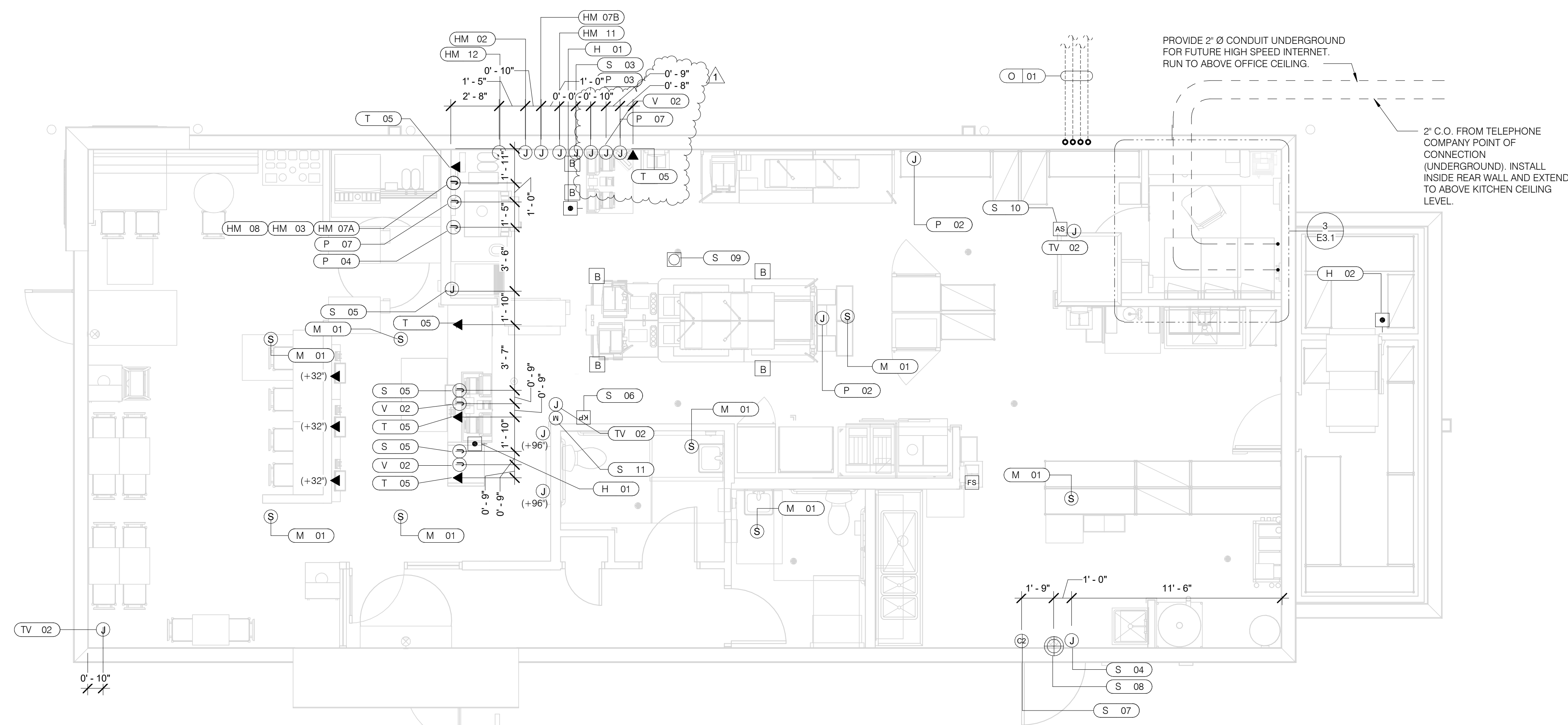
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**ENDEAVOR 2.0
LIGHTING PLAN
AND DETAILS**

E4.0

PLOT DATE: 3/9/2022 10:39:31 AM



PROVIDE 2" Ø CONDUIT UNDERGROUND FOR FUTURE HIGH SPEED INTERNET. RUN TO ABOVE OFFICE CEILING.

2" C.O. FROM TELEPHONE COMPANY POINT OF CONNECTION (UNDERGROUND). INSTALL INSIDE REAR WALL AND EXTEND TO ABOVE KITCHEN CEILING LEVEL.

VOLUME CONTROL NOTES:
1) PATIO SPEAKER: DEDICATED WALL-MOUNT VOLUME CONTROL IN LOCATION OF HEAD-END (TYP. MANAGERS OFFICE).
2) DINING ROOM SPEAKERS: DEDICATED WALL-MOUNT VOLUME CONTROL IN LOCATION OF HEAD-END (TYP. MANAGERS OFFICE).
3) KITCHEN SPEAKERS: IF CONNECTED TO THE SOUND SYSTEM, CAN EITHER HAVE VOLUME CONTROL BUILT INTO THE SPEAKER ITSELF, OR HAVE A THIRD DEDICATED WALL-MOUNT VOLUME CONTROL IN LOCATION OF HEAD-END (TYP. MANAGERS OFFICE).
4) RESTROOM SPEAKERS: VOLUME CONTROL BUILT INTO SPEAKER.

COMMUNICATIONS PLAN 1/4" = 1'-0" **A**

DATE	REMARKS
09.17.21	Health Comments
03.11.22	Issued for Construction

CONTRACT DATE: 06.22.21
BUILDING TYPE: END, MED20
PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 315089
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ENDEAVOR 2.0 COMMUNICATIONS PLAN

E5.0

PLOT DATE: 3/9/2022 10:39:35 AM

COMMUNICATIONS LEGEND NTS **C**

	HOLD-UP BUTTON (MOUNT 2-1/2" BEHIND COUNTER EDGE)		DOOR CONTACT (LINKED TO AUDIO / VISUAL ALARM)
	MUSIC SYSTEM SPEAKERS		'SOUND ALERT' DEVICE
	SECURITY STROBE		KEYPAD (MTD AT 48" A.F.F.)
	J-BOX		ALARM SIREN ABOVE CLG
	2' x 4' J-BOX W/ DATA PORTS		BUMP PAD (MOUNT AT FRONT COUNTER)
	MOTION DETECTOR		HOOD FIRE SUPPRESSION SYSTEM PULL STATION
	OCCUPANCY SENSOR, CEILING MOUNTED. SEE DETAILS 1 & 2 / E7.0		USB OUTLET

COMMUNICATIONS NOTES NTS **B**

A. SUPPLY AND INSTALL OUTLETS AND CONDUIT FOR OWNER SUPPLIED AND INSTALLED CABLE AND LOW VOLTAGE WIRING (U.O.N.). TELEPHONE AND MUSIC SYSTEM WIRING SHALL BE SUPPLIED AND INSTALLED. SEE SCOPE OF WORK SHEETS.

B. SEE SHEETS E3.0 AND E3.1 FOR ELECT. INFO ON POS, SECURITY SYSTEM, CCTV SYSTEM, (OFFICE) COMPUTER, DRIVE-THRU TIMER AND DRIVE-THRU COMMUNICATION SYSTEM.

C. THIS PLAN INCLUDES CONDUITS AND J-BOXES FOR POS, SECURITY SYSTEM, CCTV SYSTEM, (OFFICE) COMPUTER, TELEPHONE SYSTEM, MUSIC SYSTEM, DRIVE-THRU TIMER AND DRIVE-THRU COMMUNICATION SYSTEM.

D. ALL OUTLETS AND BOXES MOUNTED IN THE SERVING COUNTER CABINETRY ARE TO BE 24" AFF. INSTALL JUNCTION BOXES WITH CONDUIT UNDER CABINET TO NEAREST WALL AND TO ABOVE CEILING.

COMMUNICATIONS ROUGH-IN SCHEDULE

COMM. TYPE	COMM. #	EQUIPMENT ITEM	ELEVATION	REMARKS
H	01	UNDER COUNTER HOLD-UP BUTTON		SEE DETAIL 6/E3.1.
H	02	WALL MOUNTED HOLD-UP BUTTON	+18" A.F.F.	SURFACE MTD. 2X4 J-BOX ON INSIDE OF WALK-IN FREEZER HINGE WALL W/ (1) 1/2" CONDUIT TO ABOVE KITCHEN CEILING. BUTTON FACING DOWN. SEE DETAIL 3/E3.1
HM	02	D/T TIMER SIGNAL PROCESSOR J-BOX	+126" A.F.F.	4X4X4" DEEP (MIN.) J-BOX ABV. CLG. W/ (1) 1" CONDUIT TO HM-07B, (1) 1" CONDUIT TO HM-04, (1) 1-1/2" CONDUIT TO HM-08 & (1) 1" CONDUIT TO HM-12. SEE DET. 5/E3.1.
HM	03	D/T BASE STATION J-BOX	+72" A.F.F.	4X4 J-BOX @ D/T BASE STATION W/ (1) 1-1/2" C TO HM-08 & (1) 1-1/2" C TO HM-07A. SEE DETAIL 7/E3.1.
HM	07A	D/T TIMER DISPLAY J-BOX	+62" A.F.F.	2X4 J-BOX W/ (1) 1-1/2" CONDUIT TO HM-03 & (1) 1" C TO HM-04. SEE DETAIL 7/E3.1.
HM	07B	D/T TIMER DISPLAY J-BOX	+126" A.F.F.	2X4 J-BOX ABV. CEILING W/ (1) 1" CONDUIT TO HM-02. SEE DETAIL 7/E3.1.
HM	08	D/T J-BOX	+96" A.F.F.	4X4X4" DEEP (MIN.) J-BOX W/ (1) 1-1/2" CONDUIT TO HM-03 & (1) 1-1/2" CONDUIT TO HM-02. SEE DETAIL 7/E3.1.
HM	11	D/T CONTROL UNIT J-BOX	+126" A.F.F.	2X4 J-BOX ABV. CEILING W/ (1) 1" CONDUIT TO HM-12. SEE DETAIL 7/E3.1.
HM	12	D/T/ ETHERNET SWITCH J-BOX	+126" A.F.F.	2X4 J-BOX ABV. CEILING W/ (1) 1" CONDUIT TO HM-11, (1) 1" CONDUIT TO HM-02 & (1) 1" CONDUIT TO OFFICE ROUTER.
M	01	SPEAKER, CEILING MOUNTED	CEILING	SPEAKER WIRING FROM SPEAKERS IN DINING ROOM TO AMPLIFIER IN OFFICE. FOR EXACT LOCATION OF SPEAKERS, SEE LIGHTING PLAN SHEET E4.0.
P	02	2X4 J-BOX FLUSH @ CEILING.	CEILING	FOR M.A.P.S. LINE MONITOR J-BOX.
P	03	KITCHEN MONITOR J-BOX	+84" A.F.F.	2X4 J-BOX W/ (1) 3/4" CONDUIT TO ABOVE CEILING
P	04	BUMP PAD J-BOX	+24" A.F.F.	2X4 J-BOX W/ (1) 3/4" CONDUIT TO P-03.
P	07	POS J-BOX W/ 2-1/2" DIA HOLE IN COVER PLATE	+24" A.F.F.	6X6X4" DEEP J-BOX W/ 2-1/2" CONDUIT IN WALL TO ABV. CEILING, WITH PULL STRING FOR POS.
S	03	J-BOX SECURITY SYSTEM	+30" A.F.F.	2X4 J-BOX W/ (1) 1/2" CONDUIT TO ABV. CLG. FOR HOLD-UP BUTTON SIGNAL WIRE.
S	04	J-BOX SECURITY SYSTEM	+84" A.F.F.	2X4 J-BOX W/ COVER & (1) 1/2" CONDUIT TO ABOVE CEILING.
S	05	J-BOX SECURITY SYSTEM	+24" A.F.F.	2X4 J-BOX W/ 3/4" CONDUIT TO S-05 AND TO ABOVE CEILING.
S	06	J-BOX SECURITY SYSTEM	+48" A.F.F.	2X4 J-BOX W/ (1) 1/2" CONDUIT TO ABOVE CEILING FOR SECURITY SYSTEM KEYPAD.
S	07	J-BOX SECURITY SYSTEM	TOP OF JAMB	2X4 J-BOX W/ (1) 1/2" CONDUIT TO ABOVE CEILING FOR DOOR CONTACT.
S	08	"SOUND ALERT" DEVICE	CEILING	CONNECT TO SECURITY SYSTEM.
S	09	SECURITY STROBE LIGHT	CEILING	CONNECT TO SECURITY SYSTEM.
S	10	ALARM SIREN	ABV. CEILING	CONNECT TO SECURITY SYSTEM.
S	11	MOTION / HEAT DETECTOR	+78" A.F.F.	STUB 1/2" CONDUIT. D5835 OR D5820. MOUNT 90" A.F.F. FOR OFFICE

COMMUNICATIONS ROUGH-IN SCHEDULE

COMM. TYPE	COMM. #	EQUIPMENT ITEM	ELEVATION	REMARKS
T	03	VOICE LINE PHONE JACK	+42" A.F.F.	2X4 J-BOX W/ DOUBLE RJ-11 PHONE JACK & 1" CONDUIT TO ABOVE CEILING.
T	04	COMPUTER LINE PHONE JACK	+42" A.F.F.	2X4 J-BOX W/ RJ-11 PHONE JACK AND 1" CONDUIT TO ABOVE CEILING.
T	05	P.O.S. PHONE JACK	+24" A.F.F.	2X4 J-BOX W/ 1" CONDUIT TO ABOVE CEILING.
TV	02	SECURITY CAMERA	+96" A.F.F.	MINI-DOME CAMERA MTD. TO BTM. OF MENU BOARD BULKHEAD. 2X4 J-BOX W/ (1) 1/2" CONDUIT TO ABOVE CEILING MTD. ON BACK SIDE OF BULKHEAD (6 TOTAL).
V	02	CREDIT CARD READER (VSAT)	+24" A.F.F.	2X4 J-BOX W/ 1/2" CONDUIT TO ABOVE CEILING FOR ETHERNET CABLES.
S	01	J-BOX SECURITY SYSTEMS	+48" A.F.F.	4X4 J-BOX AT SECURITY SYSTEM CONTROL PANEL W/ (1) 2" CONDUIT TO S-02
S	02	J-BOX SECURITY SYSTEMS	+106" A.F.F.	4X4 J-BOX ADJACENT TO T-02 W/ (1) 2" CONDUIT TO S-01
S	12	J-BOX SECURITY DVR	+42" A.F.F.	2X4 J-BOX FOR SECURITY DVR
T	02	SECURITY SYSTEM PHONE JACK	+106" A.F.F.	2X4 J-BOX ADJACENT TO S-02 W/ RJ-31X PHONE JACK
V	01	ALTERNATE PAYMENT ROUTER BOX	+90" A.F.F.	4X4 J-BOX W/ 1/2" CONDUIT TO ABOVE CEILING FOR ETHERNET CABLES (DOUBLE JACK)
HM	10	OCB SWITCH	+52" A.F.F.	2X4 J-BOX W/ 1" CONDUIT TO ABOVE CEILING
IR	01	IRRIGATION TIMER	+80" A.F.F.	4X4 J-BOX W/ 1" CONDUIT TO IRRIGATION VALVES
O	01	(4) 1" DATA CONDUITS	CEILING	FROM MENU BOARD/SPEAKER POST TO ABOVE CEILING FOR OCB AND D/T COMM. SYST. SEE DETAIL 3/7.0
HM	04	OCB SWITCH	+80" A.F.F.	4X4 J-BOX W/ 1" CONDUIT TO IRRIGATION VALVES
T	01	TELEPHONE SERVICE BOX PER LOCAL TELEPHONE COMPANY. PROVIDE 24"X24"X3/4" PLYWOOD PANEL AT CLG. PROVIDE PULL STRING IN 2" CONDUIT.	+24" A.F.F.	PROVIDE (1) 25 PAIR TELEPHONE CABLE. ONLY (2) LINES TO BE USED. LINE ONE FOR VOICE/FAX. LINE (2) FOR COMPUTER MODEM.
TV	01	CLOSED CIRCUIT TELEVISION (CCTV)		CCTV INSTALLATION IS BASED ON THE CRIME INDEX AS DETERMINED BY YUM! LOSS PREVENTION MANAGER. THE STANDARD CCTV PACKAGE WILL CONSIST OF (1) CCTV MONITOR W/ WALL BRACKET AND (1) MINI DOME CAMERA MTD. ON BACK SIDE OF BULKHEAD (7 TOTAL)



TBCCB-3-WOS SEQUENCE OF OPERATION

The intent of the BMS Control Box (TBCCB-3-WOS) is to activate or deactivate the following:

- Kitchen Lighting
- Dining Room Lighting
- Exterior Lighting
- Exterior Signs
- Exhaust hood exhaust fan
- Exhaust hood lighting
- Make up air / replacement air fan
- Rest room / cook line exhaust fan
- Managers Office lighting & at least one duplex outlet

Sequence of Operation

(Building) Occupied Mode

When the Occupied/Unoccupied selector switch on the front of the TBCCB-3-WOS panel is in the "Auto" position, Channel 1 of the Timeclock in the Control Box is programmed to place the building in Occupied mode 15 minutes before the first Team Member arrives on the premises. This commands on the following:

- The Parking Lot Lights, provided the photo cell indicates it is dark enough for them to be on
- The restroom and cook line exhaust fan marked "EF-2"
- Dining Room Lights, provided their local switch is in the ON position
- Kitchen and rest room lights, provided their local switch and or occupancy sensors are in the ON position
- The exhaust hood exhaust fan marked "EF-1"
- The make up air replacement air fan (evaporator fan) in RTU 1 and RTU 2.

Occupied mode may also be invoked when any of the following occur:

- an Occupancy sensor on the front of the TBCCB-3-WOS panel senses motion
- when an optional remote Occupancy sensor senses motion
- when a remote Occupied switch is in the Occupied position
- when the Occupied/Unoccupied switch on the front of the TBCCB-3-WOS is placed in the MANUAL OCCUPIED position

(Building) Unoccupied Mode

When the Occupied/Unoccupied selector switch on the front of the TBCCB-3-WOS panel is in the "Auto" position, Channel 1 of the Timeclock in the Control Box is programmed to place the building in Unoccupied mode 15 minutes after the last Team Member leaves the premises. This commands OFF the following:

- The Parking Lot Lights
- The restroom and cook line exhaust fan marked "EF-2"
- Dining Room Lights
- Kitchen room lights
- The exhaust hood exhaust fan marked "EF-1"
- The make up air - replacement air fan (evaporator fan) in RTU 1 and RTU 2.

In the event of a rise in temperature above 85 degrees in the exhaust hood, the exhaust fan (EF-1) and the make up air source (RTU 1 and 2) will be activated. When in Unoccupied mode and the temperature under the hood drops below 85 degrees, the exhaust fan and make up air source will turn off fifteen minutes after the 85 degree setting is achieved.

Any detection by the Occupancy sensor in the TBCCB-3-WOS or the optional Remote Occupancy Sensor or the optional Remote Occupancy Switch or ON position of the Manual Occupied switch will override the Timeclock and keep the building in OCCUPIED mode.

(Sales) OPEN mode

When the OPEN/CLOSED selector switch on the front of the TBCCB-3-WOS panel is in the "Auto" position, Channel 2 of the Timeclock in the Control Box is programmed to place the building in OPEN (FOR SALES) mode. This commands on the following:

- The Exterior Building Lights, provided the photo cell indicates it is dark enough for them to be on
- The Exterior Signs, provided the photo cell indicates it is dark enough for them to be on

OPEN for sales mode may also be invoked when any of the following occur:

- when an optional remote OPEN (for sales) switch is in the OPEN position
- when the OPEN/CLOSED switch on the front of the TBCCB-3-WOS is placed in the MANUAL OPEN position

(Sales) CLOSED mode

When the OPEN/CLOSED selector switch on the front of the TBCCB-3-WOS panel is in the "Auto" position, Channel 2 of the Timeclock in the Control Box is programmed to place the building in CLOSED (FOR SALES) mode. This commands OFF the following:

- The Exterior Building Lights
- The Exterior Signs,

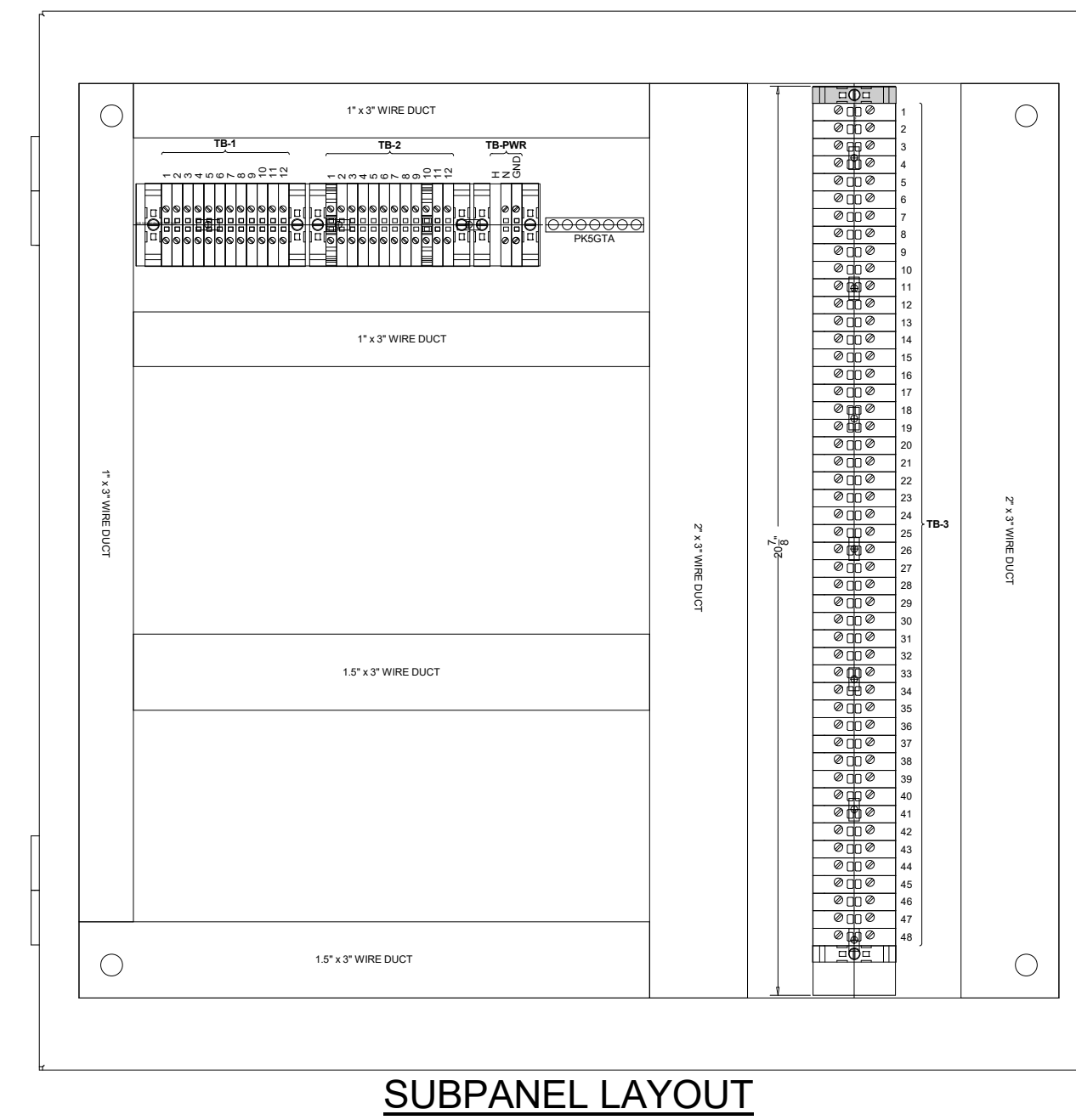
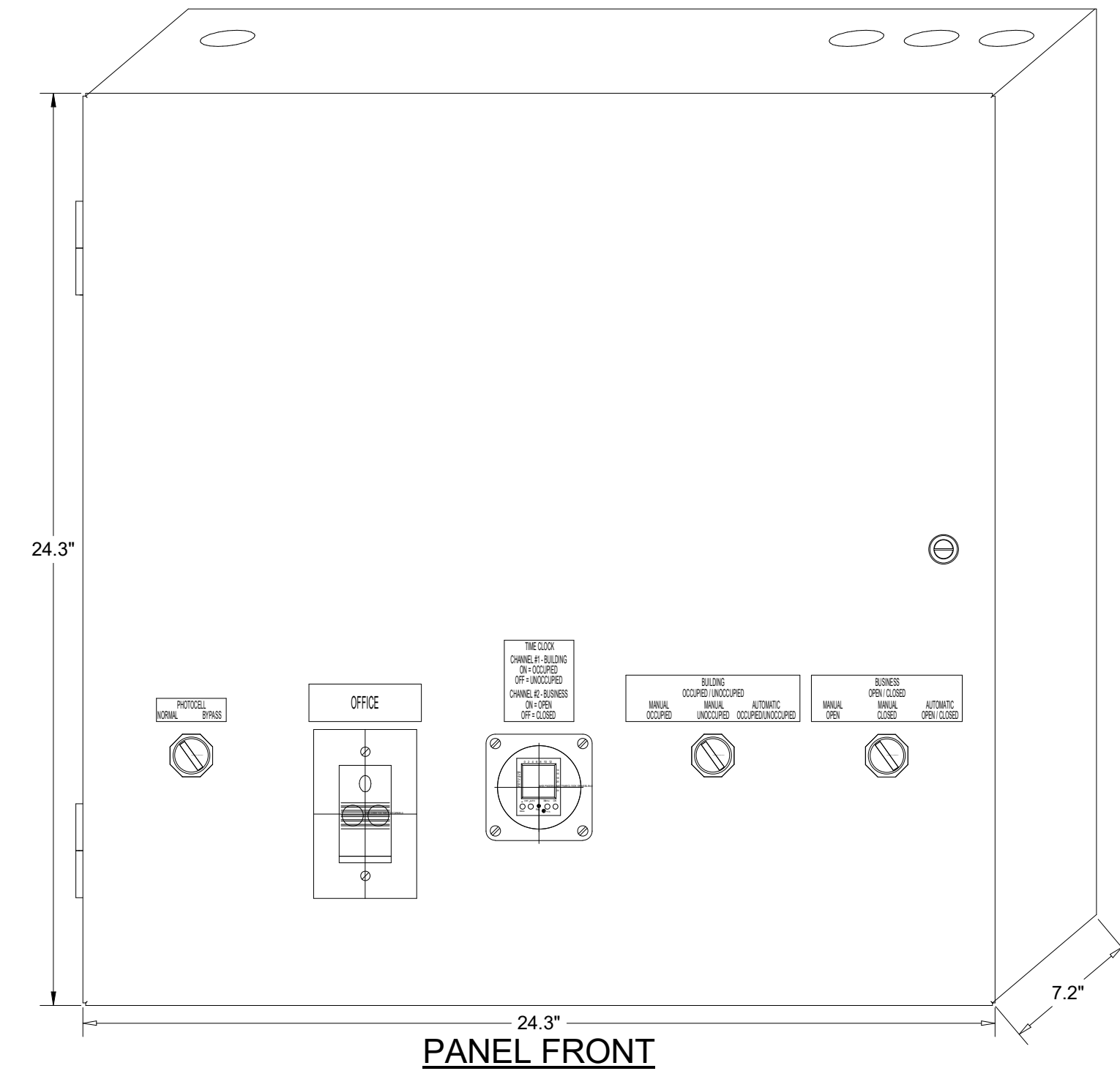
Manual CLOSED Mode

When a Team Member places the OPEN/CLOSED switch in the MANUALCLOSED position it turns off the Signs and Exterior Lights until the switch is placed back in AUTOMATIC or MANUAL OPEN position

External Operations Not Part Of The Control Box Operation But Required To Be Installed

The following operations should take place between the package units and various components:

- Control voltage for RTU 2 shall pass through contacts in the fire suppression system for the exhaust hood so that RTU 2 evaporator fan shuts down upon an activation of the fire suppressant into the hood. The system shall be wired directly between the fire suppression system and RTU 2 or TBANS control box. See sheet E-7.1.
- A remote smoke detector system featuring testing, annunciation and remote unit reset shall be installed in the manager's office for each RTU. The system shall be wired directly between each RTU and its respective testing, annunciation and reset device.

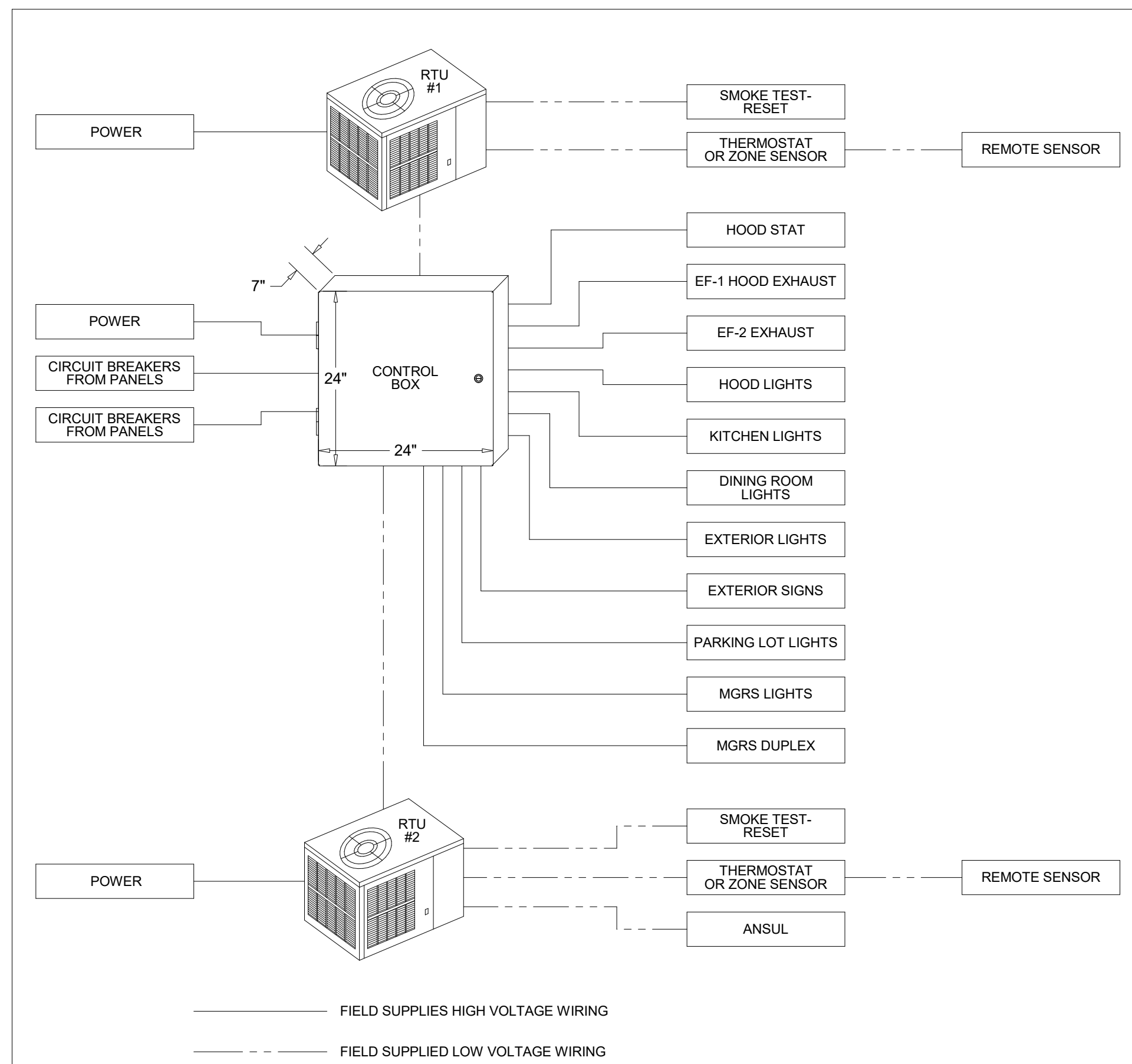


FOR REFERENCE ONLY

DATE	REMARKS
03.11.22	Issued for Construction

CONTRACT DATE: 06.22.21
 BUILDING TYPE: END. MED20
 PLAN VERSION: MARCH 2021
 BRAND DESIGNER: DICKSON
 SITE NUMBER: 315089
 STORE NUMBER: 40164
 PA/PM: SM
 DRAWN BY.: AJR
 JOB NO.: 2019088.31

TACO BELL COMPONENT RELATIONSHIP



— FIELD WIRE BY OTHERS
 THIS PANEL ENCLOSURE IS RATED TYPE 1. TO PRESERVE RATING USE TYPE 1 CONDUIT ENTRY HUBS



This panel is Listed to applicable UL Standards and requirements by UL. Field wiring or field components are not Listed under this mark.

CONTROL BOX

TACO BELL'S SUPPLIER OF THE CONTROL BOX IS AIR CARE EXPERTS. UNLESS NOTED OTHERWISE, TBCCB-3-WOS CONTROL BOX TO BE PURCHASED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. NOTE: TBCCB-3 WOS MAY BE INCLUDED IN THE LIGHTING PACKAGE. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO VERIFY. TBCCB-3-WOS INCLUDES ALL WIRING AND COMPONENTS SHOWN FACTORY INSTALLED WITHIN THE BOX. PRIMARY CONTACT: CHUCK MCCABE PHONE: 949 770 2222 EMAIL: INFO@ACE-EMS.COM

TACO BELL

18708 TELEGRAPH ROAD
 BROWNSTOWN, MI 48183



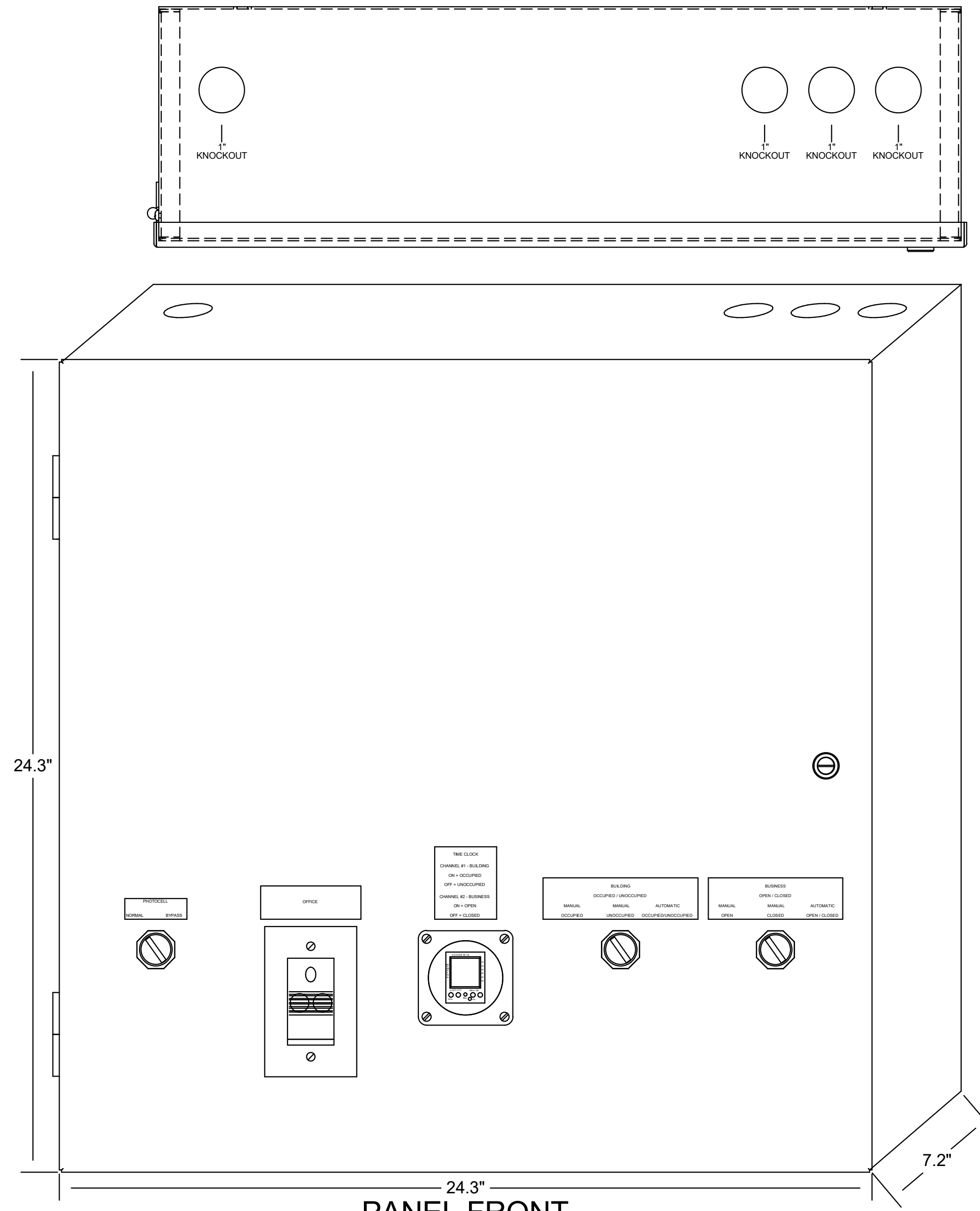
ENDEAVOR 2.0
 ELECTRICAL
 DETAILS -
 TBCCB

E6.0

TBCCB-3-WOS

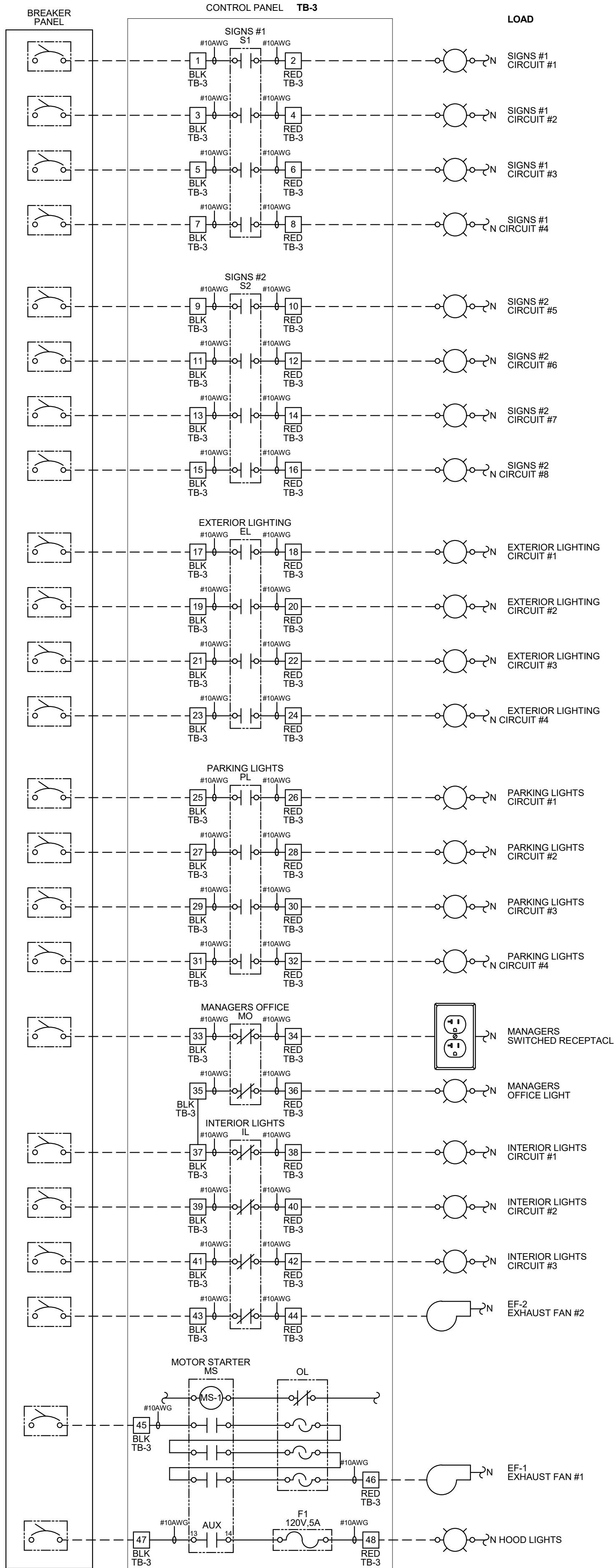


TBCCB-3-WOS



PANEL FRONT

PANEL CIRCUIT NUMBER
REFER TO PANEL SCHEDULES FOR CIRCUIT INFORMATION (TYPICAL)



- NOTES:**
1. VISUAL VERIFICATION OF THIS INSTALLATION IS REQUIRED. SEE SHEET M5.0
 2. PANEL IS SURFACE MOUNT
 3. PROTECT INTERIOR FROM METAL SHAVINGS & DEBRIS

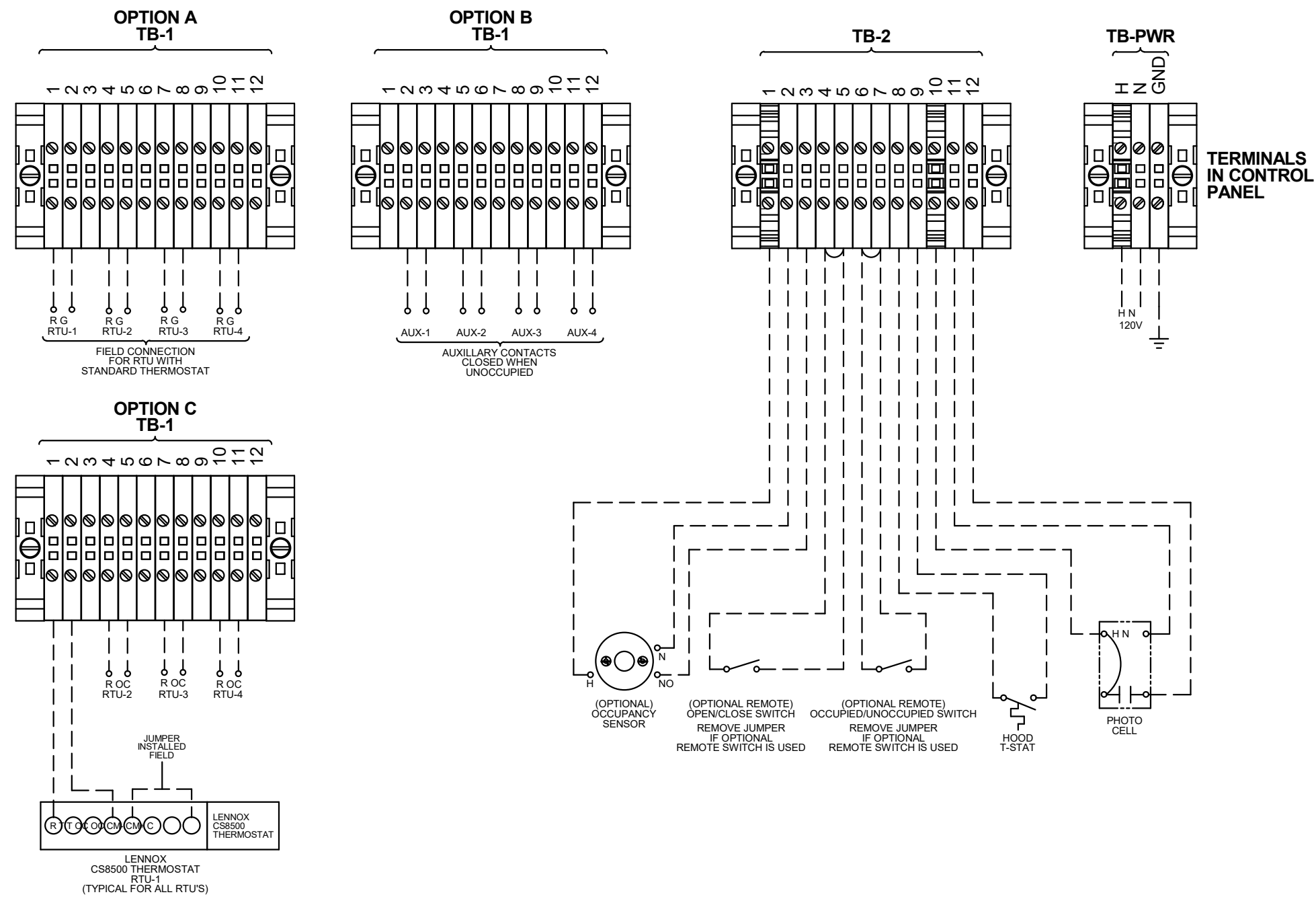
CONTROL BOX

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NOTE: TBCCB-3 WOS MAY BE INCLUDED IN THE LIGHTING PACKAGE. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO VERIFY.

TBCCB-3-WOS INCLUDES ALL WIRING AND COMPONENTS SHOWN FACTORY INSTALLED WITHIN THE BOX.

PRIMARY CONTACT: CHUCK MCCABE
PHONE: 949 770 2222
EMAIL: INFO@ACE-EMS.COM



TERMINALS IN CONTROL PANEL

--- FIELD WIRE BY OTHERS
THIS PANEL ENCLOSURE IS RATED TYPE 1 TO PRESERVE RATING USE TYPE 1 CONDUIT ENTRY HUBS



This panel is Listed to applicable UL Standards and requirements by UL. Field wiring or field components are not Listed under this mark.

FOR REFERENCE ONLY

DATE	REMARKS
03.11.22	Issued for Construction

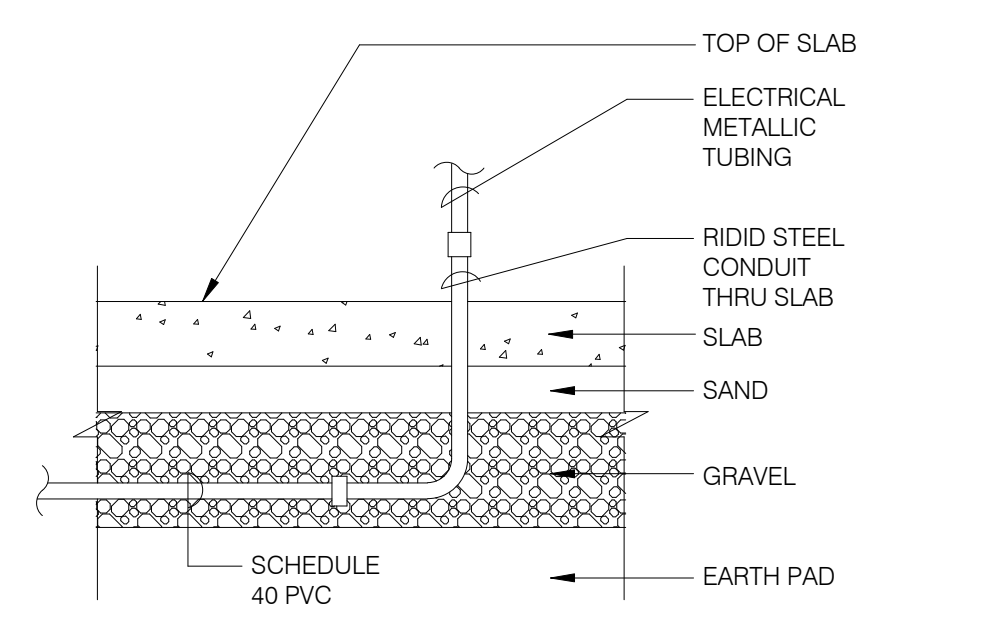
CONTRACT DATE: 06.22.21
BUILDING TYPE: END, MED20
PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 315089
STORE NUMBER: 40164
PA/PM: SM
DRAWN BY: AJR
JOB NO.: 2019088.31

TACO BELL
18708 TELEGRAPH ROAD
BROWNSTOWN, MI 48183

TACO BELL
E.N.D.E.A.V.O.R 2.0
ELECTRICAL
DETAILS -
TBCCB

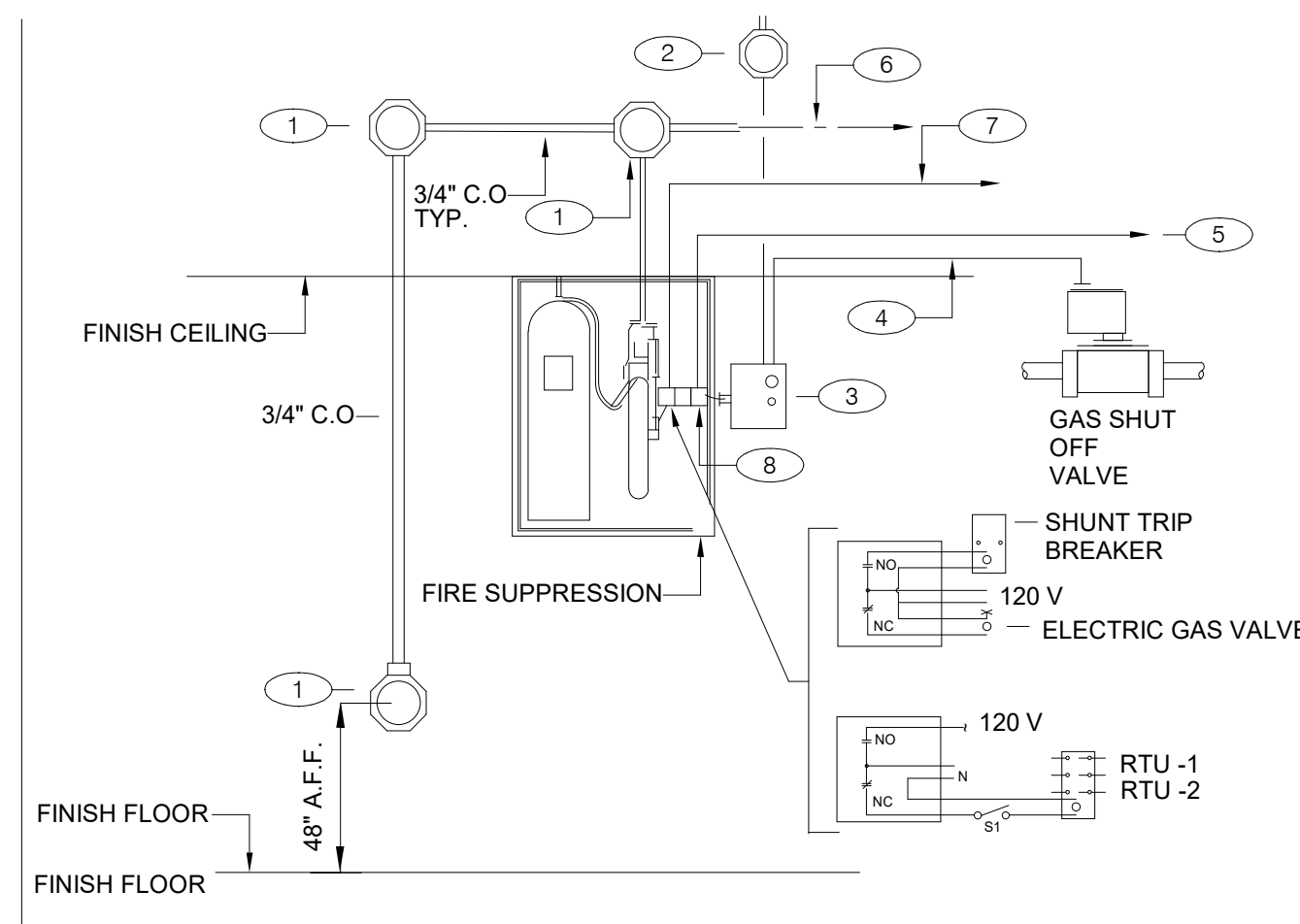
E6.1
PLOT DATE: 3/9/2022 10:39:36 AM

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NOTE: GREEN GROUND WIRE REQUIRED IN ALL CONDUITS, SIZED PER N.E.C. REQUIREMENTS.

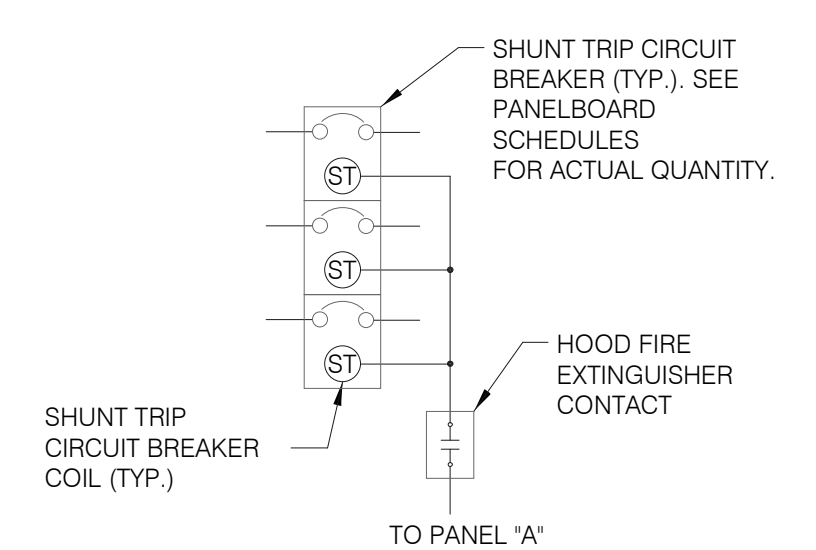
UNDER SLAB CONDUIT N.T.S. **7**



GENERAL NOTES:
1. REFER TO SHEET M3.0

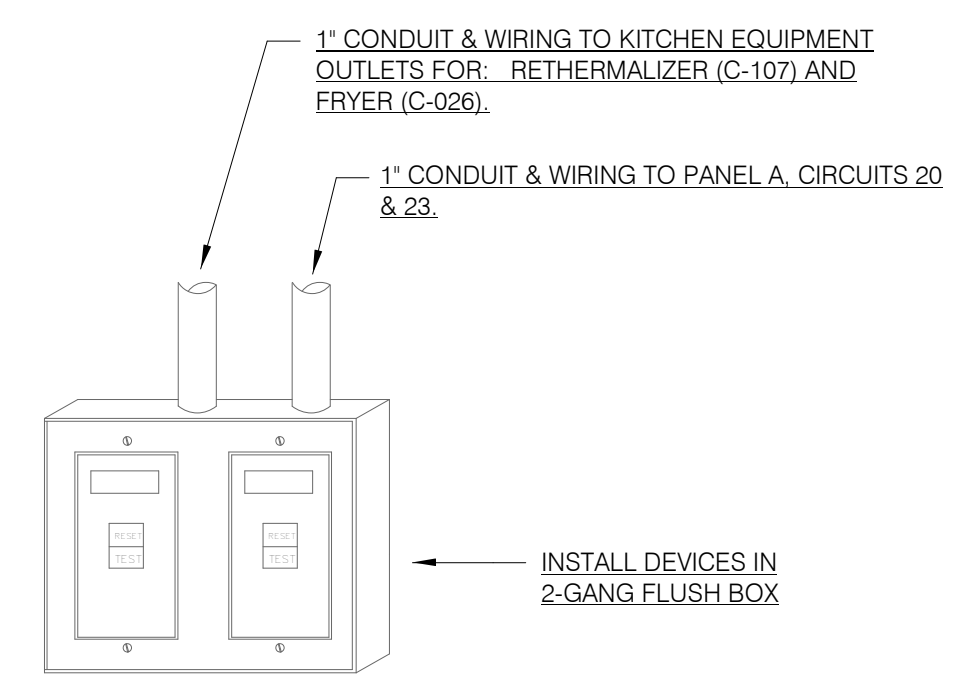
KEY NOTES:
① PROVIDE 4" OCTAGONAL J-BOX.
② PROVIDE J-BOX, AND 110 V CIRCUIT. REFER TO EQUIPMENT SCHEDULE/FLOOR PLAN FOR CIRCUIT ASSIGNMENT. CONNECT TO TBANS. SEE SHEET 7.1.
③ TBANS INSTALLED BY ELECTRICAL CONTRACTOR.
④ PROVIDE CONNECTIONS TO TBANS BOX FOR HOOD SHUTDOWN. SEE SHEET E7.1 FOR TBANS WIRING DIAGRAM.
⑤ PROVIDE 1/2" C WITH CONTROL CABLE. MAKE INTERCONNECTIONS TO EXHAUST & SUPPLY FAN INTERFACE THROUGH MICROSWITCH ON HOOD.
⑥ CABLE AND CONNECTION TO FUSIBLE LINKS AT EXHAUST HOOD BY K.E.C.
⑦ PROVIDE INTERCONNECTION BETWEEN FIRE SUPPRESSION MICROSWITCH AND TBANS. SEE SHEET E7.1.
⑧ FIRE SUPPRESSION SYSTEM TO INCLUDE TWO MICROSWITCHES. EACH MICROSWITCH SHALL HAVE A COMMON, NORMALLY OPEN AND NORMALLY CLOSED POLE.

FIRE SUPPRESSION SYSTEM WIRING DIAGRAM N.T.S. **4**



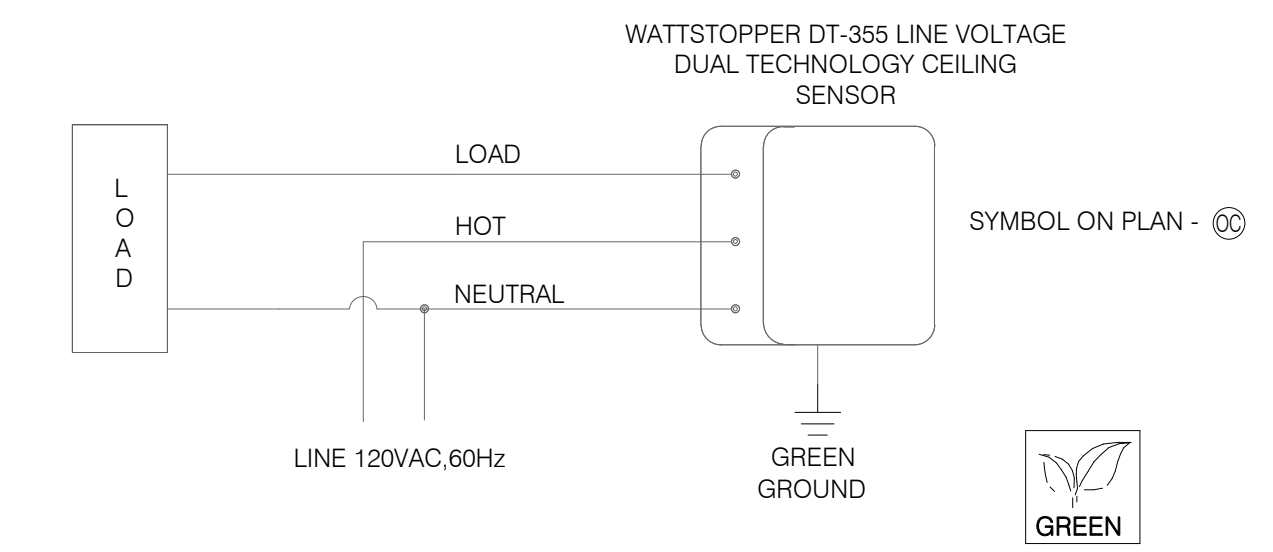
SEQUENCE OF OPERATION:
UPON ACTIVATION OF ANY HOOD FIRE SUPPRESSION SYSTEM RELAY, A RELAY IN THAT FIRE SUPPRESSION SYSTEM SHALL CAUSE ALL SHUNT TRIP CIRCUIT BREAKERS TO OPERATE, THUS REMOVING POWER FROM ALL DEVICES CONNECTED TO EQUIPMENT LOCATED UNDER THE GREASE HOOD. EXHAUST FANS SHALL NOT BE AFFECTED BY THIS ACTION AND SHALL CONTINUE TO BE CONTROLLED AS INDICATED IN THE SEQUENCE OF OPERATIONS INDICATED ON CONTROLS SHEETS E6.0 AND E6.1

SHUNT TRIP DETAIL N.T.S. **1**

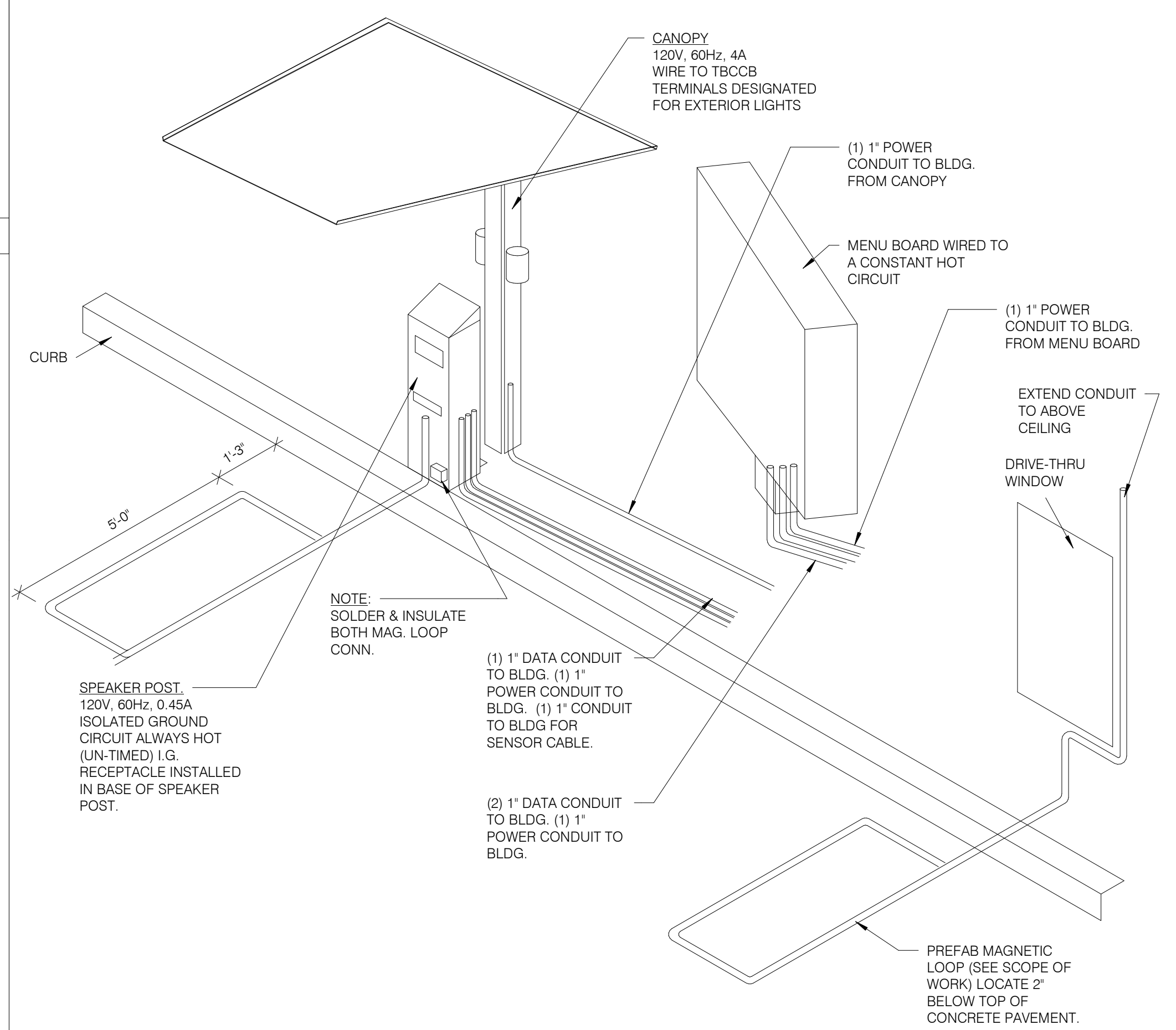


NOTES:
1. DEAD FRONT GFCI DEVICES ARE REQUIRED FOR KITCHEN EQUIPMENT REQUIRING BOTH A SHUNT TRIP BREAKER AND GFCI PROTECTION.
2. REFER TO SHEET E3.0 FOR LOCATION OF DEAD FRONT GFCI DEVICES.
3. PROVIDE LABEL ON DEVICES WITH CIRCUIT NUMBER AND LOAD DESIGNATION.

DEAD FRONT GFCI DEVICE DETAIL N.T.S. **5**



CEILING OCCUPANCY SENSOR WIRING DIAGRAM N.T.S. **2**



DRIVE-THRU COMMUNICATIONS ISOMETRIC N.T.S. **3**

NOT USED N.T.S. **8**

NOT USED N.T.S. **9**

NOT USED N.T.S. **6**

DATE	REMARKS
03.11.22	Issued for Construction

CONTRACT DATE: 06.22.21
BUILDING TYPE: END, MED20
PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 315089
STORE NUMBER: 40164
PA/PM: SM
DRAWN BY.: AJR
JOB NO.: 2019088.31

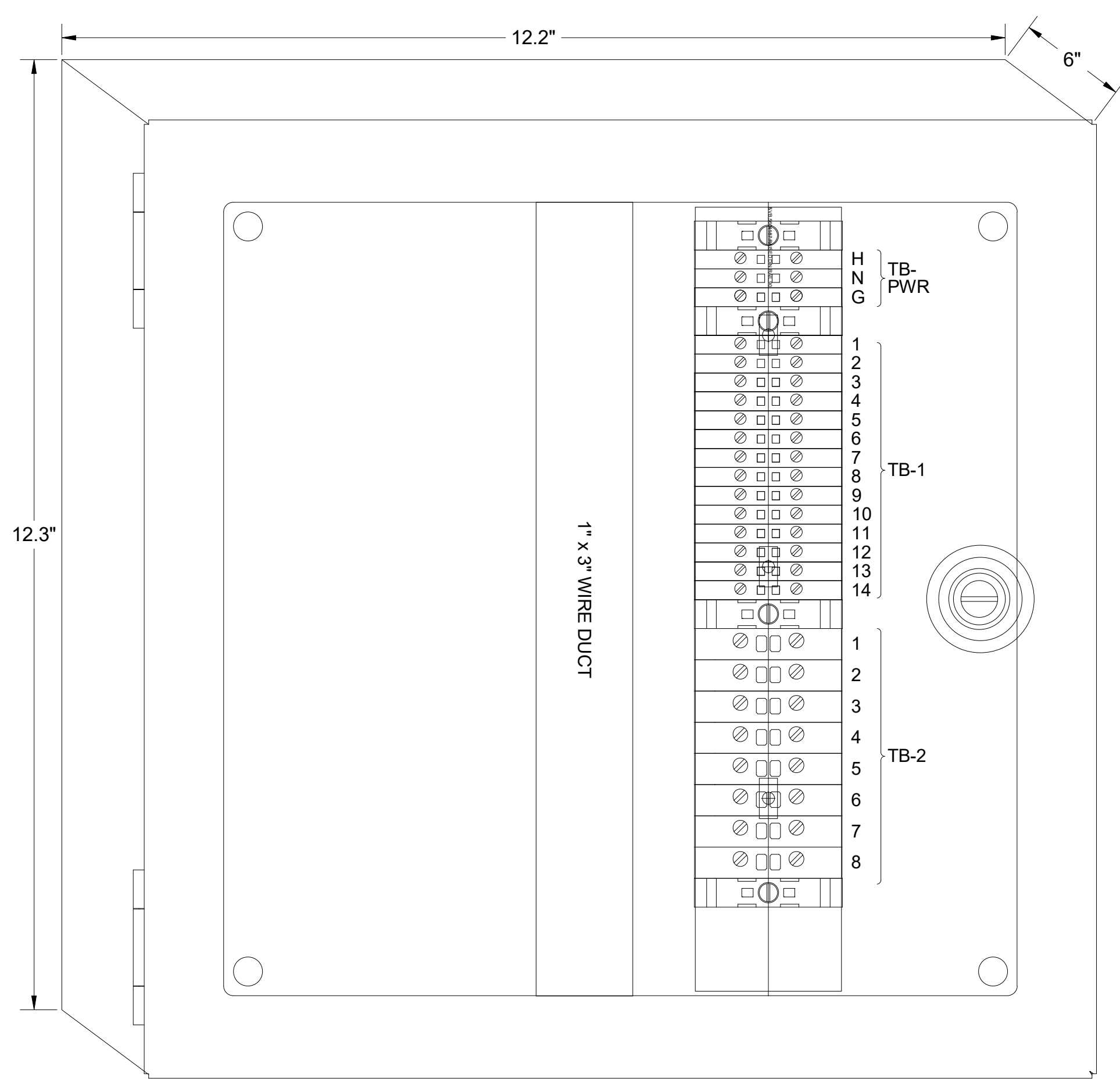
TACO BELL
18708 TELEGRAPH ROAD
BROWNSTOWN, MI 48183



**ENDEAVOR 2.0
ELECTRICAL
DETAILS**

E7.0

PLOT DATE: 3/9/2022 10:39:36 AM

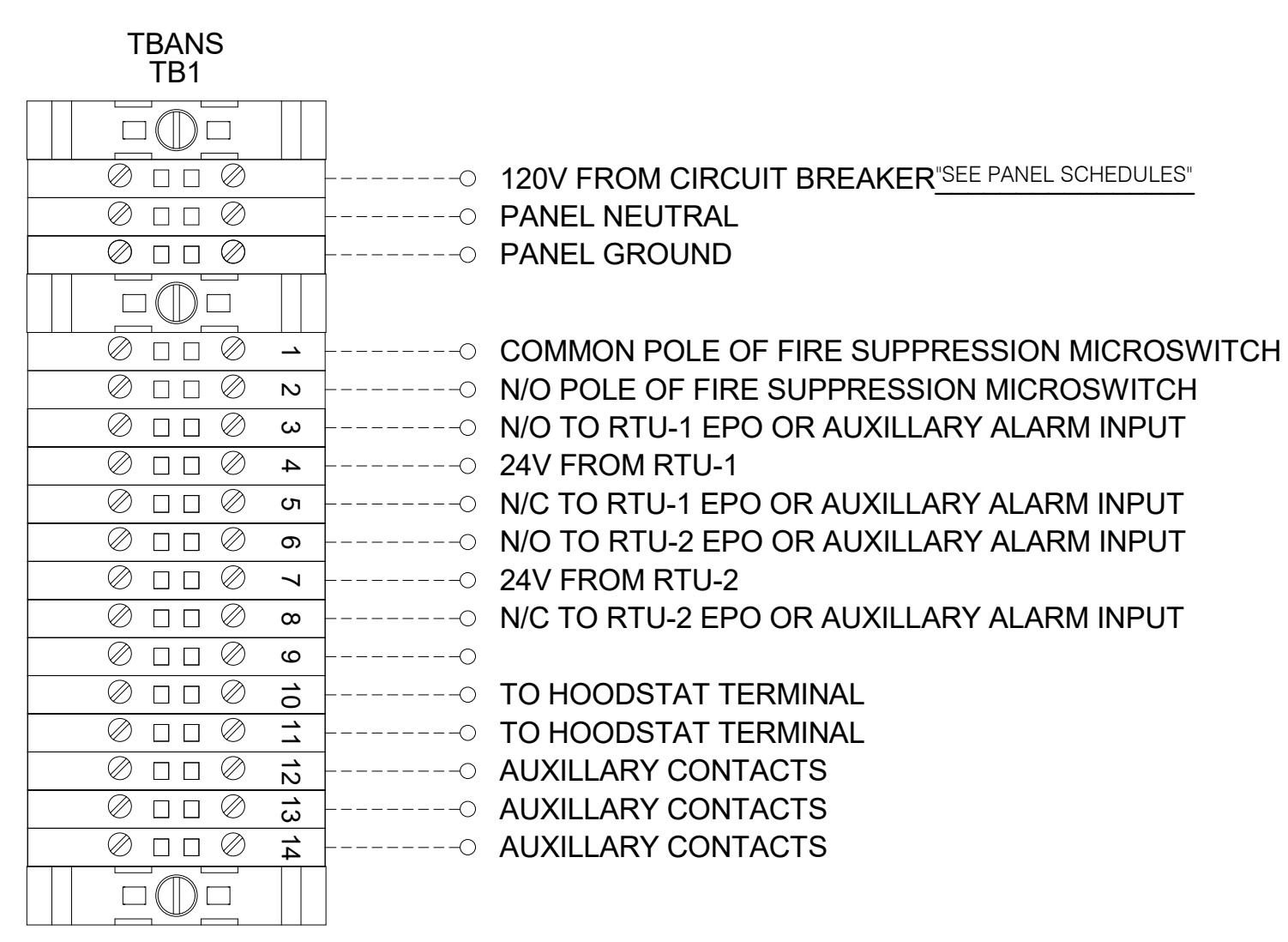


1 TBANS PANEL DIMENSIONS NTS

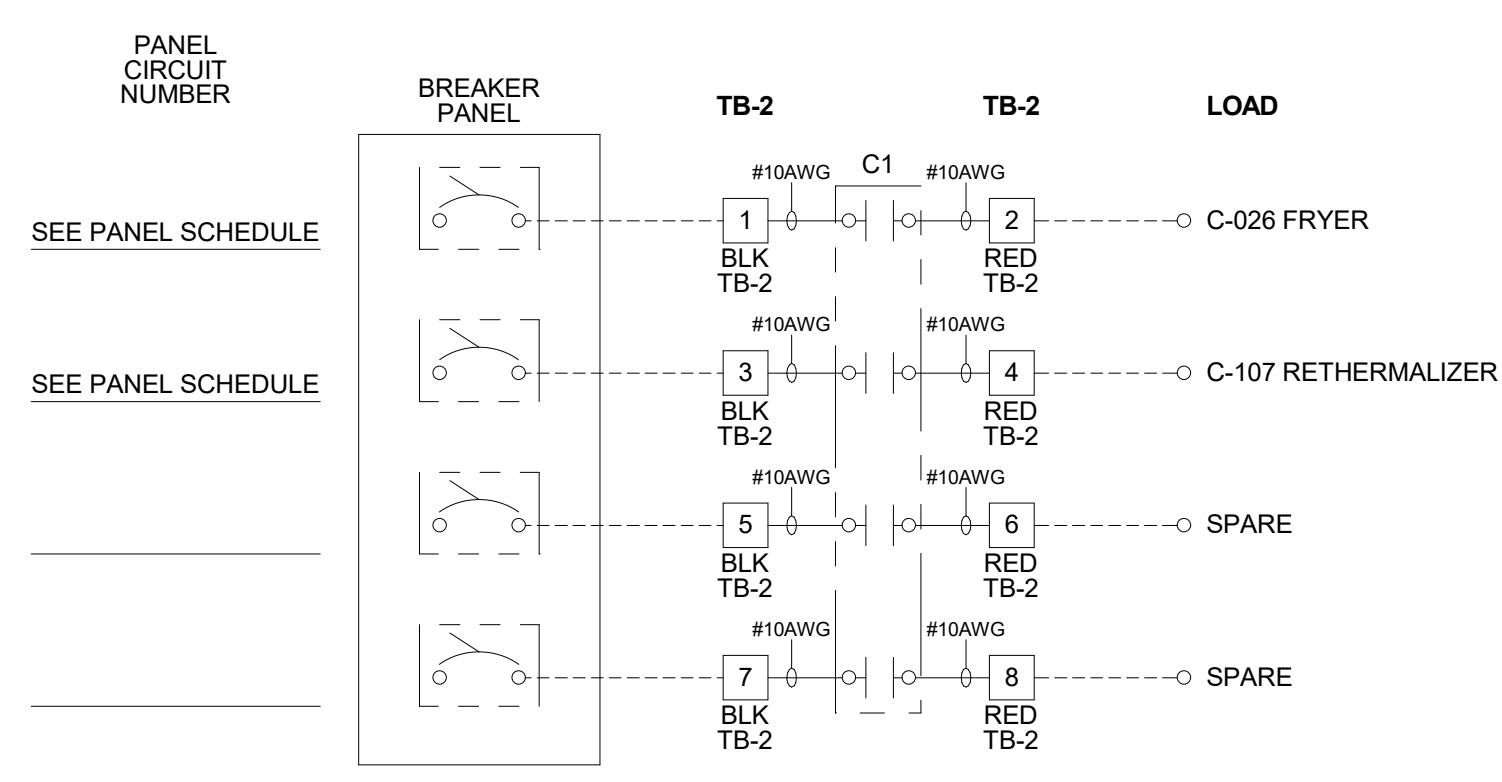
SEQUENCE OF OPERATION:
ACTIVATION OF HOOD FIRE SUPPRESSION SYSTEM RELAY SHALL CAUSE TBANS TO DE-ENERGIZE LOAD, THUS REMOVING POWER FROM ALL DEVICES CONNECTED TO EQUIPMENT LOCATED UNDER THE GREASE HOOD.

CONTROL BOX
TACO BELL'S SUPPLIER OF THE CONTROL BOX IS AIR CARE EXPERTS. UNLESS NOTED OTHERWISE, TBANS CONTROL BOX TO BE PURCHASED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
NOTE: TBANS MAY BE INCLUDED IN THE LIGHTING PACKAGE. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO
VERIFY INCLUDES ALL WIRING AND COMPONENTS SHOWN FACTORY INSTALLED WITHIN THE BOX.
PRIMARY CONTACT: CHUCK MCCABE
PHONE: 949 770 2222
EMAIL: INFO@ACE-EMS.COM

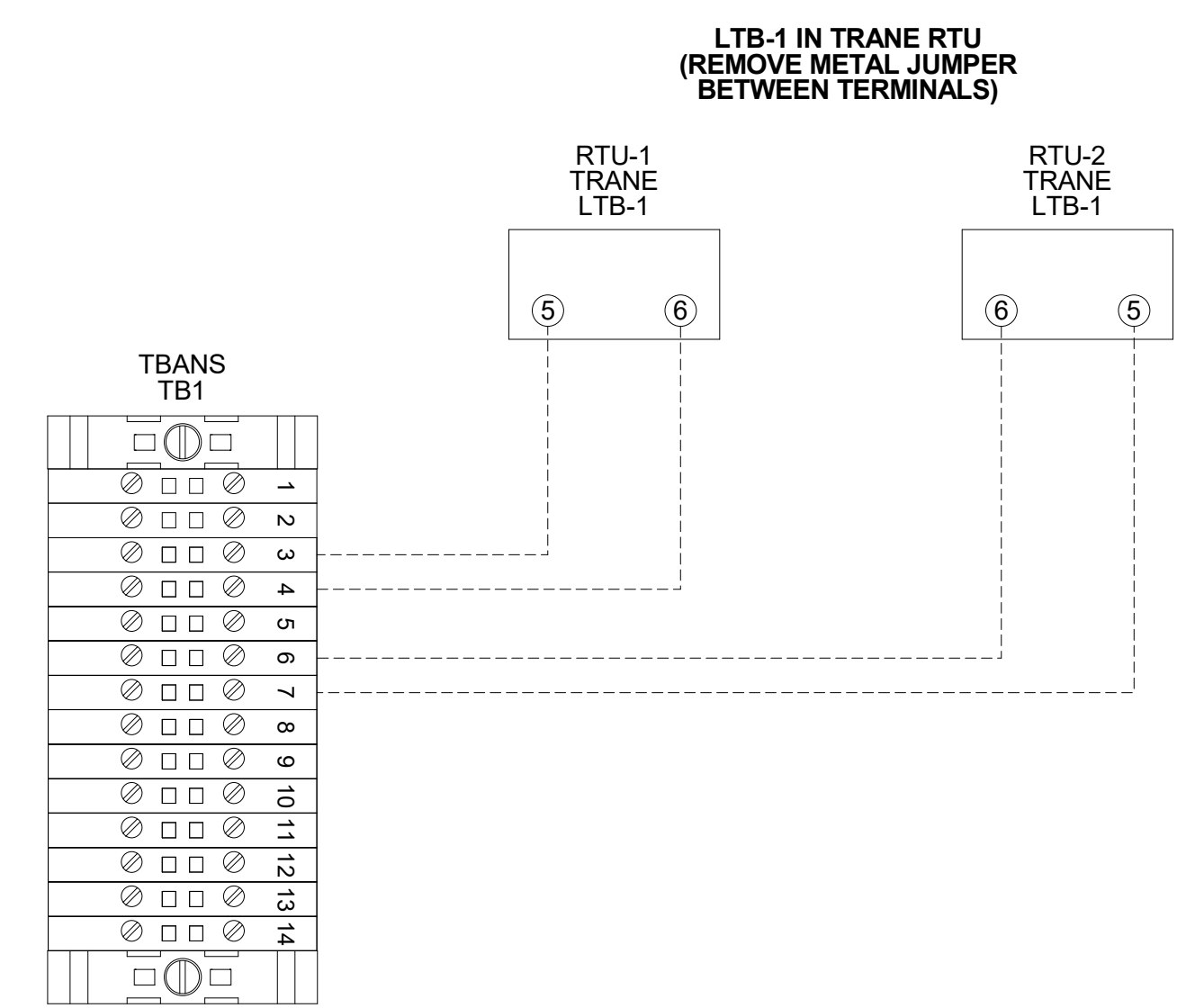
TACO BELL REQUIRES VISUAL CERTIFICATION OF THIS INSTALLATION SEE SHEET M5.0 CONTACT CERTIFY@ACE-BCX.COM OR (949)-770-2222



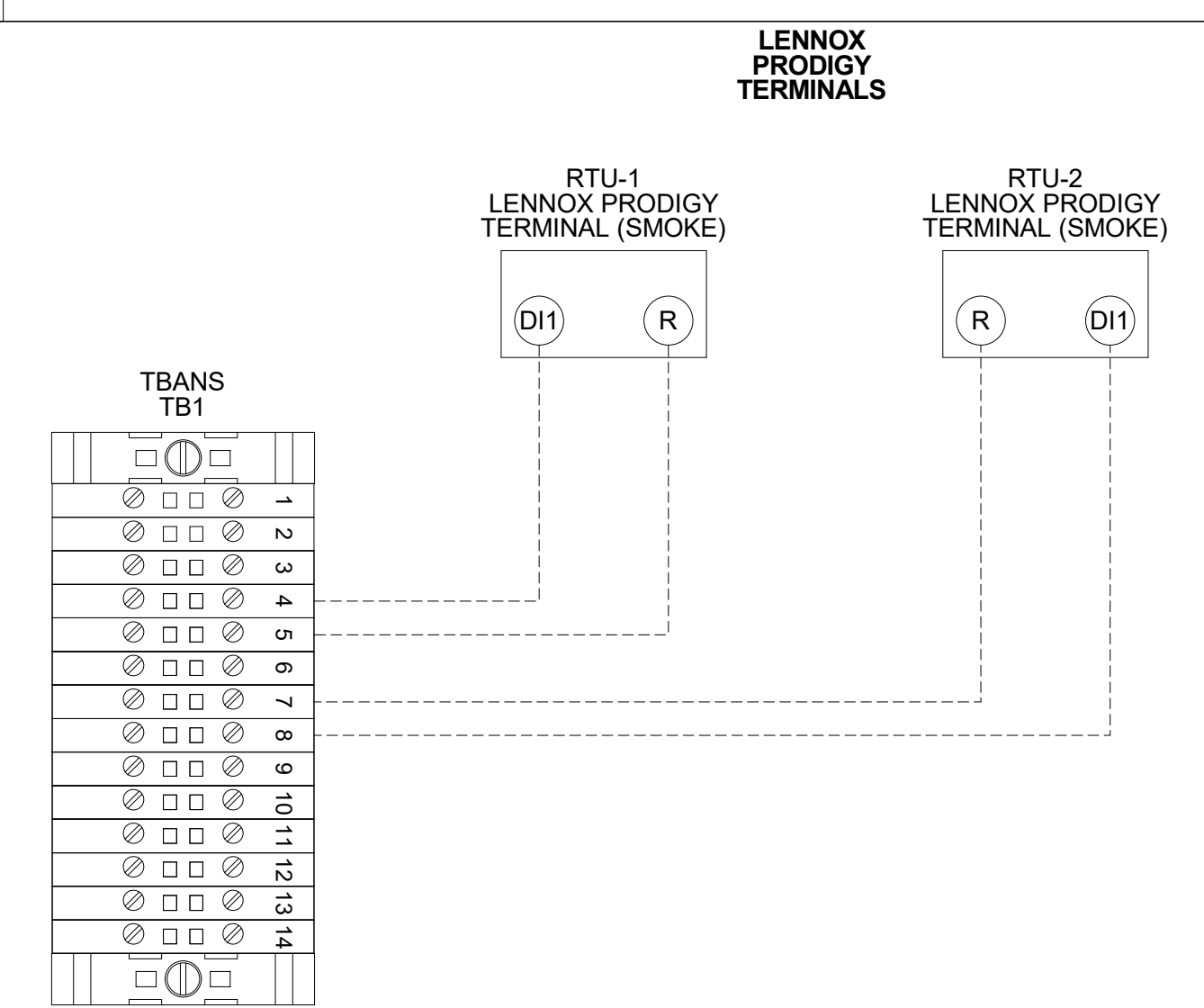
2 TBANS FIELD CONNECTIONS - VARIOUS NTS



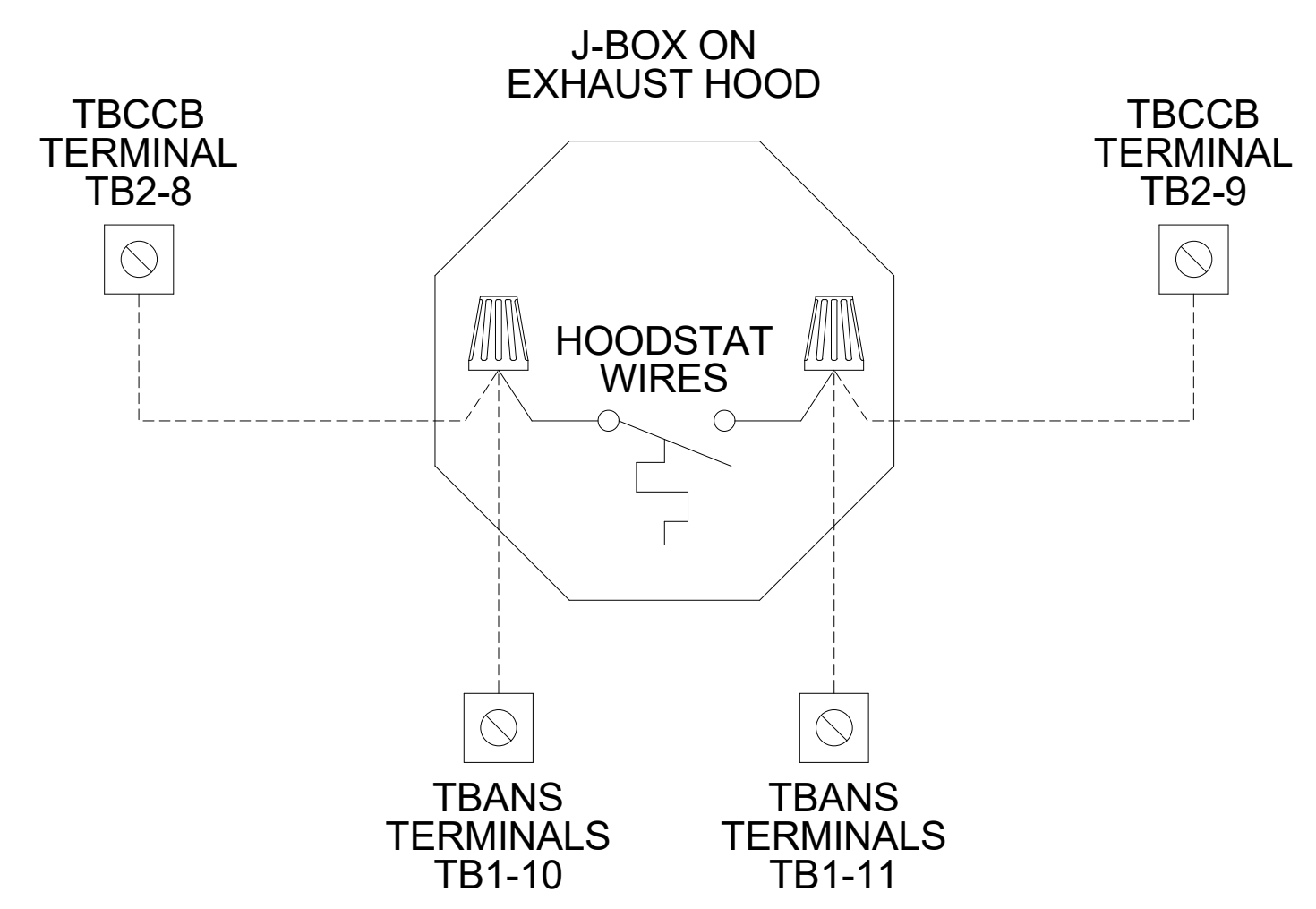
3 TBANS FIELD CONNECTIONS - APPLIANCES NTS



6 TBANS TO TRANE RTU SHUTDOWN NTS



5 TBANS TO LENNOX PRODIGY SHUTDOWN NTS



4 TBANS TO HOODSTAT TO TBCCB NTS

FOR REFERENCE ONLY

DATE	REMARKS
03.11.22	Issued for Construction

CONTRACT DATE: 06.22.21
BUILDING TYPE: END. MED20
PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 315089
STORE NUMBER: 40164
PA/PM: SM
DRAWN BY.: AJR
JOB NO.: 2019088.31

TACO BELL
18708 TELEGRAPH ROAD
BROWNSTOWN, MI 48183



ENDEAVOR 2.0
ELECTRICAL
DETAILS

E7.1



TITLE	DESCRIPTION	SUPPLIER	MANUFACTURER'S MODEL	A&D ITEM #	ORDERED BY	SHIPPED BY	INSTALLED BY	SHOP DRAWINGS
6200	Roof Access Ladder & Hatch	Precision	FL 184 (Ladder) & PLHG (Hatch)	B-049 (Ladder) & B-050 (Hatch)	DIS	DIS	GC	
8341	Door - Security	LockNet	DU3670L52VED	-	RSCS	RSCS	GC	
10290-1	Air Curtain (D/T Window)	Marley	E2400-1115FG	B-151	DIS	DIS	GC	
10290-2	Air Curtain (Service Door)	Marley	E4200-1175	B-150	DIS	DIS	GC	
	Exterior Digital Menu Board & Optional Digital Preview Board	Everbrite Stratacache		-	CM (Company), CM or DIS (Franchise)	Manufacturer	GC - Foundation and Conduit Sign Vendor DMB Ins	X
	Interior Menuboard	VGS		-	DIS	Manufacturer	GC	
	Digital Menu Board	Stratacache		-				
10430	Signage (Bldg Signs, Road Signs, Directional Signs)	Cummings Signs Everbrite (Preferred Supplier) AGI	VARIES VARIES -	VARIES VARIES -	CM (Company), CM or DIS (Franchise)	Manufacturer	Manufacturer (Local Installer)	X
10536	Canopies	Cummings Signs Everbrite (Preferred Supplier) AGI	VARIES VARIES -	VARIES VARIES -	CM (Company), CM or DIS (Franchise)	Manufacturer	Manufacturer (Local Installer)	X
10810	Restroom Accessories	Accuserv	VARIES	F-452 (if indicated in plan set), B-241, B-265, B-275, B-290 (where occurs), B-291 (where occurs), B-300, B-305, B-405, B-410	DIS	DIS	GC	
11020-1	Safe	Brinks	Tidel Series 4 (duel single note validator, standard side vault)	F-174	CM	BRINKS	BRINKS	
11020-2	Security System	Tyco	-	-	CM	Manufacturer	GC	X
11030-1	Drive-thru Window	Quikserv	QKSRVSC4030BR	B-140	RSCS	Manufacturer	GC	
11030-3	Drive-thru Clearance Bar	Cummings Signs Everbrite (Preferred Supplier) AGI	- - -	- - -	CM	Manufacturer	GC	
11030-4	Drive-thru Sensor Loops	ERC Parts Inc.	WX8171	-	Manufacturer	Manufacturer	GC	
11100-3	P.O.S.	IBM NCR PAR	- - -	VARIES VARIES VARIES	TB / IT	Manufacturer	SSP	X
11100-4	Credit Card Payment System	Hughes Network Systems	-	-	TB / IT	Manufacturer	SSP	
11300-1	Order Confirmation Board (OCB)	Delphi Display Systems Hyperactive Texas Digital	P6YUC5STDUSV1S; P6YOC5STDUSEN1S TDMHX2H01TCB;TDMHX1H26 AVNGE60	L-090 L-095	DIS	DIS	GC (see Scope of Work notes)	
11300-2	Drive-thru Speaker & Microphone	HME 3M Food Services Trad Dept	C400005HS3TB; C11422TB 78691149153; G55HSSINGLE	U-011; S-204	DIS	Manufacturer	GC	
11300-4	DT Canopy	Cummings Signs Everbrite (Preferred Supplier) AGI	- - -	V-350	CM, Franchisee or DIS on behalf of Franchisee	Manufacturer	GC (see Scope of Work notes)	X
11400-1	Kitchen Equipment	N. Wasserstrom (Franchise only) RSCS (Preferred Supplier)	VARIES VARIES	VARIES VARIES	DIS	DIS	GC (see General Comments)	X
11400-5	GTO with EVO Production Line	Delfield Duke Carter Hoffman (Evo cabinets)	VARIES VARIES VARIES	VARIES VARIES VARIES	DIS	DIS	GC / Manufacturer (Local Installer)	X
11405-3	Kitchen Shelving / Workstations	I.S.S.	VARIES	VARIES	DIS	DIS	GC	
11405-4	Walk-In Cooler / Freezer (Panelized)	I.C.S. Norlake	VARIES VARIES	VARIES VARIES	GC	Manufacturer	GC or Manufacturer (up to CM's discretion)	X
11425	Exhaust Hoods	Stratavent (preferred supplier) Gaylord Industries (Boiler hood) Randell (alternate supplier)	VARIES VARIES VARIES	VARIES VARIES VARIES	DIS	DIS	GC	X
11430-2	Drink Dispensers / Line Sets	Pepsi	-	-	RSCS	Pepsi	Pepsi (Local installer)	
11435-6	Ice Machines	Manitowoc Ice Inc & Hoshisaki	Manitowoc SY-1474C	S-513	DIS	Manufacturer	Manufacturer (Local Installer)	
11680	Office Computer (Taco System)	En Pointe Global Services	-	F-040, F-060	TB / IT	SSP	SSP	
12100-1	Artwork	GFX VGS Creative Pallette	VARIES - -	- - -	DIS	DIS	GC	
12400-5	Décor	Custom Seating (Company Supplier, base décor) FCI (Company Supplier, base décor) IDX	VARIES VARIES VARIES	- - -	DIS	DIS	GC	X
12430	Fruitista Machine	Equipment Delivery, Install and Activation FBD Equipment Manufacturer Cornelius Taco Bell Engineering	VARIES VARIES VARIES VARIES	VARIES VARIES VARIES VARIES	DIS - Equipment; GC - Installation & Setup (notify vendor 2 weeks from install date)	DIS	Service Agents - ICEE (East) or RepTec (West)	
12440	Iced Tea	Pepsi	E56150000	S-546	DIS	Supplier	GC / Supplier	
13200	CO2 - Bulk	MVE (bulk tank) NU CO2 (CO2 and service)	VARIES VARIES	S-580 S-580	DIS	DIS	Manufacturer (Local Installer)	
13700-4	CCTV	MARTCO	-	-	RSCS	MARTCO	MARTCO	X
13800-1	Energy/Building Management System	Air Care Experts Air Care Experts	TBCCB-Varies TBCCB-Varies	- -	DIS DIS	DIS DIS	GC GC	
13800-2	Hood Shutdown System	Air Care Experts	TBANS	-	Contractor	Air Care	GC	
13900-1	Fire Suppression System	Ansul	-	-	GC	GC	GC (Local Installer)	
15410	Hand Sinks	Aero	HS-Mod	N-053	DIS	DIS	GC	
15470-5	Water Filter	Shurflo	WB6-M3-22-003	-	DIS	Manufacturer	GC (see Vendor Scope - Pepsi Drink System)	
15480-3	Water Heater	AO Smith (standard) Bradford White (alternate)	AO Smith BTH-120 (standard) -	B-215 B-215	RSCS	RSCS	GC	
	Water softener	-	-	-	RSCS	RSCS	GC	
15500-1	HVAC - Test and Balance	- Melink Corp/ Air Care Experts	- - -	- - -	Determined by CM or RCM; Approved options - GC CM/RCM	Determine by CM or RCM; Approved options - GC CM/RCM	Determined by GC / CM / RCM	X
15500-2	Commissioning	Air Care Experts	-	-	gc	Air Care Experts	GC	
15500-3	Visual Verification	Air Care Experts	-	-	gc	Air Care Experts	GC	
15700-1	HVAC	Trane (Franchisee Only) Lennox (Company and Franchisee Stores) York international (Franchisee Only)	VARIES VARIES VARIES	- - -	GC GC	Manufacturer Manufacturer	GC GC	X
16300-1	Switchgear - Franchisee	Accuserv Capital Lighting	Square-D and Cutler Hammer Square-D and Cutler Hammer	VARIES VARIES	DIS DIS	DIS DIS	GC GC	X
16300-2	Switchgear - Company	Capital Lighting Accuserv	Square-D and Cutler Hammer Square-D and Cutler Hammer	VARIES VARIES	GC or RSCS (confirm with CM at time of bid)	GC	GC	X
16500	Light Fixtures - Interior and Building	Capital Lighting Accuserv (all lighting except BOH & restrooms)	VARIES VARIES	- -	DIS	DIS	GC	X
16520	Light Fixtures - Site	Capital Lighting Accuserv	VARIES VARIES	- -	DIS DIS	DIS DIS	GC GC	
16720	Telephone Communications	YUM! Telecom (Company stores) By owner through local phone service provider (franchise)	- -	- -	TB Franchisee	Manufacturer Manufacturer	Manufacturer (Local Installer) Manufacturer (Local Installer)	X
16820-3	Music System	Mood Media	-	F-131	TB	Manufacturer	Manufacturer (Local Installer)	X
	Coffee Brewer	Bunn	42300.0008	S-547	RSCS	RSCS	GC	
	Floor and Wall Tile	Creative Materials	-	-	GC	Manufacturer	GC	X

DATE	REMARKS
07.21.21	Issued for Permit
03.11.22	Issued for Construction

CONTRACT DATE: 06.22.21
 BUILDING TYPE: END, MED20
 PLAN VERSION: MARCH 2021
 BRAND DESIGNER: DICKSON
 SITE NUMBER: 315089
 STORE NUMBER: 40164
 PA/PM: SM
 DRAWN BY.: RS
 JOB NO.: 2019088.31

TACO BELL
 18708 TELEGRAPH ROAD
 BROWNSTOWN, MI 48183



ENDEAVOR 2.0
SCOPE OF WORK

SW1.0
 PLOT DATE: 3/9/2022 10:28:58 AM



Installation, Start Up and Pre-Commissioning Checklist									
Standard RTU Multi-Speed RTU Reference #	PROCESS	<input type="checkbox"/> = Responsible Party Initial When Completed					Remarks	CA-Commissioning Agent Functional Verification (CA Contracted by Owner)	
		GC - General Contractor	EC - Electrical Contractor	MC-Mechanical Contractor	PC-Plumbing Contractor	AB-Air Balance Agency			
	1	Package Units							
X X	2	Reference and abide to all instructions in manufacturers Installation, Startup, Operation and Maintenance literature							
X X	3	Units are set level							
X X	4	Unit and plenums align to each other							
X X	5	Units and plenums are properly sealed to each other							
X X	6	All loose shipped components are relocated and installed per manufacturers instructions							
X X	7	a) economizer eyebrow, skirts and mist eliminator installed							
X X	8	b) economizer dampers and linkage installed and operable							
X X	9	c) economizer wiring connected and completed							
X X	10	d) relief damper or power exhauster installed and operable							
X X	11	e) smoke detectors and sample tubes relocated and installed per manufacturers instructions							
X X	12	Utilities are installed and ON to the units							
X X	13	a) power on and breakers sized to unit rating							
X X	14	b) phases correct							
X X	15	c) gas on							
X X	16	d) gas gooseneck or pipe capacity meets or exceeds unit capacity							
X X	17	e) condensate line is piped per plan							
X X	18	f) condensate vent is on leaving side of trap							
X X	19								
X X	20	No thermostat, smoke detector, remote enunciator or any other wiring runs through the plenums							
X X	21	Manufacturers start up procedure has been followed and all units evaporator fan operates through all fan stages per manufacturers instructions							
X X	22	Manufacturers start up procedure has been followed and all units cycle through all heating stages per manufacturers instructions							
X X	23	Manufacturers start up procedure has been followed and all units cycle through all cooling stages per manufacturers instructions							
X X	24	Manufacturers start up procedure has been followed and all units cycle through all economizer stages per manufacturers instructions							
X X	25								
X X	26								
X X	27								
X X	28	Ductwork							
X X	29	All ductwork and registers are installed per plan							
X X	30	All starters and or take offs are radiused per plan.							
X X	31	Ductwork from the exhaust register over production line to EF-2 fan base is 100% rigid per plan							
X X	32	Balance dampers are in sleeves on axles with locking quadrant, not located in any starter collars, "T"s or "Y"s and located per plan							
X X	33	Balance damper handles are flagged to identify their location							
X X	34								
X X	35								
X X	36	Economizer							
X X	37	All mechanical components related to the economizer have been installed							
X X	38	"Blank off" plate under economizer eyebrow has been installed							
X X	39	Barometric relief damper operates freely							
X X	40	Input sensors for the Economizer have been properly located and connected to the Economizer							
X X	41	Economizer has been tested to perform "Free" cooling when ambient conditions are below 55 degrees							
X X	42	Mechanical cooling stages on when Economizer cooling is not available							
X X	43	Mechanical cooling stages on with the Economizer cooling when conditioned space temperature rises and requires two stage cooling							
X X	44	Economizer damper positions to minimum damper position when set							
X X	45								
X X	46	Smoke Detectors							
X X	47	Smoke detector option has been included in package unit							
X X	48	Return side smoke detector has been relocated from its shipping position to the factory provided installation location in the return section of the package unit							
X X	49	All smoke detector sample tubes are properly located per manufacturers design							
X X	50	The return smoke detector in each unit has been tested for unit shutdown							
X X	51	The supply smoke detector in each unit has been tested for unit shutdown							
X X	52	Visual Verification installation certification document has been requested (certify@ace-bcx.com)and completed							
X X	53								
X X	54	Remote Smoke Detector Enunciators and Resets							
X X	55	A remote smoke detector enunciator and reset has been installed in the managers office for each package unit							
X X	56	RTU 1 supply side smoke detector alarm sets off the visual and audible remote							
X X	57	After triggering RTU 1 supply side smoke detector alarm, resetting the remote smoke detector reset for RTU 1 returns RTU 1 to normal operation							
X X	58	RTU 1 return side smoke detector alarm sets off the visual and audible remote enunciator alarms and shuts down RTU 1							
X X	59	After triggering RTU 1 return side smoke detector alarm, resetting the remote smoke detector reset for RTU 1 returns RTU 1 to normal operation							
X X	60	RTU 2 supply side smoke detector alarm sets off the visual and audible remote enunciator alarms and shuts down RTU 2							
X X	61	After triggering RTU 2 supply side smoke detector alarm, resetting the remote smoke detector reset for RTU 2 returns RTU 2 to normal operation							
X X	62	RTU 2 return side smoke detector alarm sets off the visual and audible remote enunciator alarms and shuts down RTU 2							
X X	63	After triggering RTU 2 return side smoke detector alarm, resetting the remote smoke detector reset for RTU 2 returns RTU 2 to normal operation							
X X	64	Visual Verification installation certification document has been requested (certify@ace-bcx.com)and completed							
X X	65								
X X	66	Power Exhauster							
X X	67	Power Exhauster has been installed							
X X	68	Power Exhauster "On" setpoint has been set and turns on and off at correct economizer opening percentage							

Installation, Start Up and Pre-Commissioning Checklist									
Standard RTU Multi-Speed RTU Reference #	PROCESS	<input type="checkbox"/> = Responsible Party Initial When Completed					Remarks	CA-Commissioning Agent Functional Verification (CA Contracted by Owner)	
		GC - General Contractor	EC - Electrical Contractor	MC-Mechanical Contractor	PC-Plumbing Contractor	AB-Air Balance Agency			
X X	69								
X X	70	Fire Supression System Shutdown							
X X	71	TBANS-1 has been installed per plan location							
X X	72	TBANS-1 has dedicated power to terminals TB-PWR							
X X	73	TBANS terminals TB1-1 and TB1-2 are wired to "Closed when Cocked" terminals of fire suppression system microswitch per detail							
X X	74	RTU 1 and RTU 2 low voltage control power is wired through terminals in TBANS-1							
X X	75	If present, electronic gas valve is wired through TBANS							
X X	76	If required, TBANS to hoodstat has been wired for EF-1 on during supressant discharge event							
X X	77	Visual Verification installation certification document has been requested (certify@ace-bcx.com)and completed							
X X	78								
X X	79								
X X	80	Thermostat							
X X	81	Thermostats are wired to package units per thermostat and unit wiring diagrams							
X X	82	Package units equipped with two stage cooling have each cooling stage individually wired and controlled from their thermostat.							
X X	83	Package units equipped with two stage heating have each heating stage individually wired and controlled from their thermostat.							
X X	84	Thermostats are wired to TBCCB Control Box per Detail on plan sheet E-6							
X X	85	Thermostats are programmed to Taco Bell parameters							
X X	86	Visual Verification installation certification document has been requested (certify@ace-bcx.com)and completed							
X X	87								
X X	88	Hoodstat							
X X	89	Hoodstat has been installed in duct or hood per plan							
X X	90	Hoodstat is wired to terminals TB2 of the TBCCB Control Box							
X X	91	Hoodstat microswitch closes at 85 degrees							
X X	92								
X X	93								
X X	94	TBCCB & Interlock							
X X	95	Unswitched power is provided to H=HOT and N=Neutral and G=Ground terminals in the TBCCB Control Box							
X X	96	Hoodstat wires are landed on terminals TB2 of the TBCCB Control Box							
X X	97	Low voltage wiring has been completed between RTU 1 and TB-1 of the TBCCB Control Box							
X X	98	Low voltage wiring has been completed between RTU 2 and TB-1 of the TBCCB Control Box							
X X	99	Photocell is wired to the TBCCB per detail							
X X	100	Any optional switches, if used, have been installed to TBCCB per schematic							
X X	101	"Occupied" and "Unoccupied" times for the building have been programmed into Channel/Switch 1 of the Timeclock in TBCCB Control Box							
X X	102	"Open" and "Closed" times for Taco Bell sales have been programmed into Channel/Switch 2 of the Timeclock in TBCCB Control Box							
X X	103	Visual Verification installation certification document has been requested (certify@ace-bcx.com)and completed							
X X	104								
X X	105	Visual Verification							
X X	106	Visual Verification installation certificate has been received for Smoke Detectors							
X X	107	Visual Verification installation certificate has been received for Remote Smoke Detectors Enunciators and Resets							
X X	108	Visual Verification installation certificate has been received for Thermostat and Remote Sensors installation							
X X	109	Visual Verification installation certificate has been received for TBANS-1 installation							
X X	110	Visual Verification installation certificate has been received for TBCCB							
X X	111	Visual Verification installation certificate has been provided to designated authority (Owner, GC, Air Balancing Agency, Commissioning Agency)							
X X	112								
X X	113								
X X	114	Lighting							
X X	115	Interior lights are wired through the TBCCB per plan and schematic							
X X	116	Occupancy sensor controlled lighting installed in restrooms							
X X	117	Daylighting and dimming box (DDCB-ACI) is installed in jurisdictions requiring daylight harvesting and or dimming of interior lights							
X X	118	Photocell is wired to the TBCCB control box per plan and schematic							
X X	119	Exterior lights are wired to the TBCCB control box per plan and schematic							
X X	120	Sign lights are wired to the TBCCB control box per plan and schematic							
X X	121	TBCCB timeclock is programmed to Taco Bell parameters							
X X	122	Manual override of TBCCB control box timeclock activates lighting circuits							
X X	123								
X X	124	Commissioning							
X X	125	All Visual Verification installation certificates have been received							
X X	126								
X X	127	Air Balance Supplement							
X X	128	Balancing performed in accordance to ASHRAE Standard 111-2008, NEBB, TABB or AABC standards							
X X	129	Perform full fan speed adjustments after exhaust fan adjustments and supply air distribution adjustments have been made							
X X	130	Perform outside air adjustment after all other balance adjustments are complete							
X X	131	Perform outside air adjustment at full evaporator fan speed operating point							
X X	132	Perform outside air adjustment at medium fan speed operating point							
X X	133	Perform outside air adjustment at low fan speed operating point							
X X	134	Verify lobby doors closures have been adjusted for ADA compliance							
X X	135	Verify lobby doors closure operation during full economizer function of both package units and note result in air balance report							
X X	136	Verify pressure relief system operation in full economizer operation							
X X	137	Adjust power exhauster "ON" and "OFF" positions to mitigate door closure issues. Note if no power exhauster is available.							
X X	138	Provide copy of air balance report to Commissioning Agent							

DATE	REMARKS
03.11.22	Issued for Construction

CONTRACT DATE: 06.22.21
 BUILDING TYPE: END.MED20
 PLAN VERSION: MARCH 2021
 BRAND DESIGNER: DICKSON
 SITE NUMBER: 315089
 STORE NUMBER: 40164
 PA/PM: SM
 DRAWN BY: .
 JOB NO.: 2019088.31

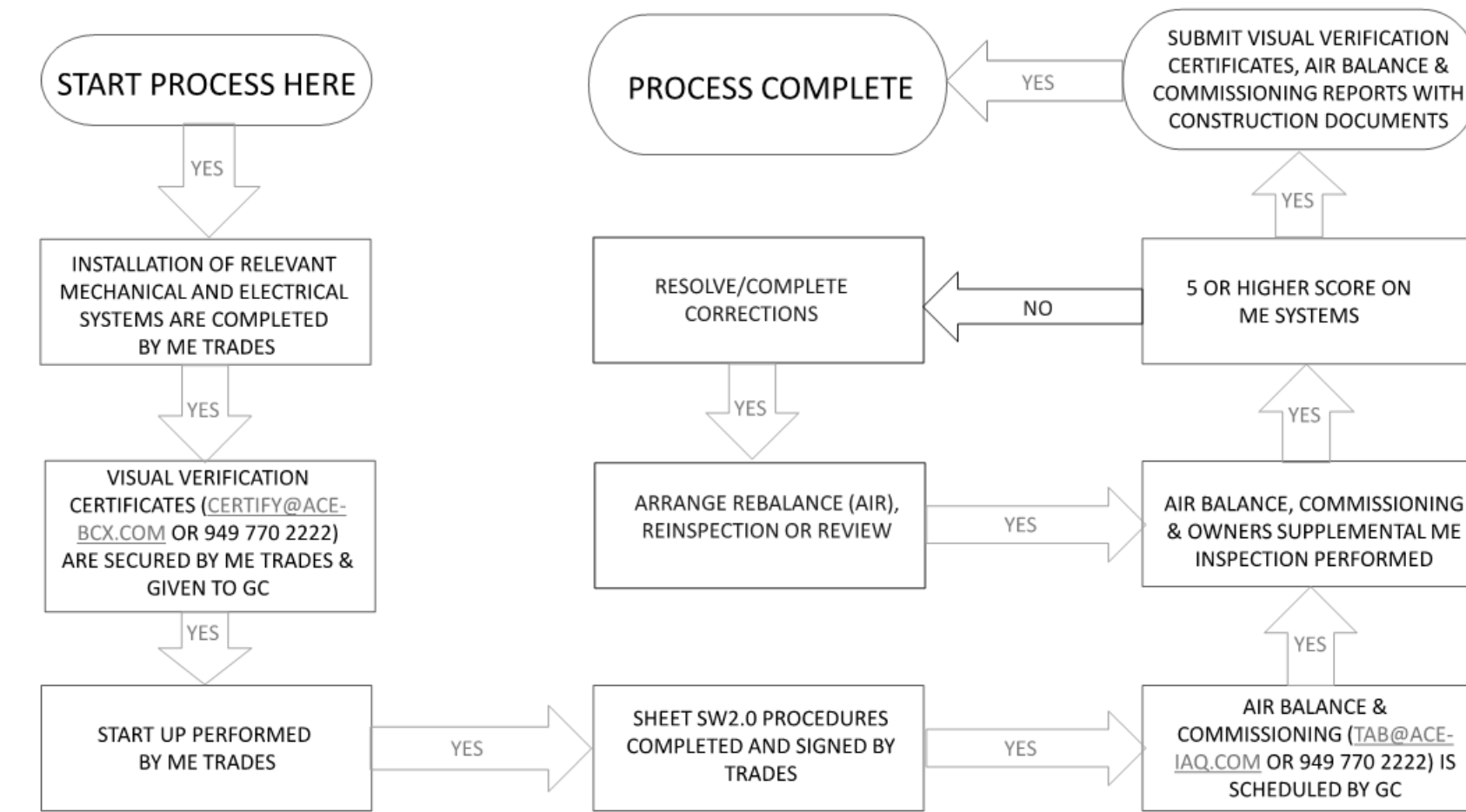
TACO BELL
 18708 TELEGRAPH ROAD
 BROWNSTOWN, MI 48183



**ENDEAVOR 2.0
 INSTALLATION
 START-UP
 PRE-COMM
 CHECK LIST**

SW2.0

MECHANICAL – ELECTRICAL (ME) BALANCING & COMMISSIONING SEQUENCE & PROCEDURE



DATE	REMARKS
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TACO BELL

18708 TELEGRAPH ROAD
 BROWNSTOWN, MI 48183



ENDEAVOR 2.0
BALANCING AND COMMISSIONING SEQUENCE

SW2.1

PLOT DATE: 3/9/2022 10:40:06 AM