



TOWN OF ASHLAND CITY

Planning Commission Meeting

February 07, 2022 5:30 PM

Agenda

Chairman: Steven Stratton

Committee Members: Gerald Greer, Steve Allen, Vivian Foston, Mike Stuart, Mike Smith

CALL TO ORDER

ROLL CALL

APPROVAL OF AGENDA

APPROVAL OF MINUTES

- [1.](#) January 03, 2022 Planning Commission Meeting Minutes

PUBLIC FORUM

OLD BUSINESS

- [2.](#) Temporary Use Permits Discussion

NEW BUSINESS

3. Parking spots for Financial and Real Estate Offices Discussion
- [4.](#) Site Plan Approval: Ashland City C-Store

OTHER

ADJOURNMENT

Those with disabilities who require certain accommodations in order to allow them to observe and/or participate in this meeting, or who have questions regarding the accessibility of the meeting, should contact the ADA Coordinator at 615-792-6455, M-F 8:00 AM – 4:00 PM. The town will make reasonable accommodations for those persons.



TOWN OF ASHLAND CITY
Planning Commission Meeting
January 03, 2022 5:30 PM
Minutes

CALL TO ORDER

Vice-Chairman Greer called the meeting to order at 5:40 p.m.

ROLL CALL

PRESENT

Committee Member Steve Allen
Committee Member Vivian Foston
Committee Member Gerald Greer
Committee Member Michael Smith
Committee Member Mike Stuart

ABSENT

Chairman Steven Stratton

APPROVAL OF AGENDA

A motion was made by Committee Member Stuart, seconded by Committee Member Foston, to approve the agenda. All approved by voice vote.

APPROVAL OF MINUTES

1. December 6, 2021 Planning Commission Meeting Minutes

A motion was made by Committee Member Stuart, seconded by Committee Member Smith, to approve the December 6, 2021 Planning Commission Meeting Minutes. All approved by voice vote.

PUBLIC FORUM

None.

OLD BUSINESS

None.

NEW BUSINESS

2. Rezone Request: Hwy 12 S Parcel 062 035.06

Mr. Michael Holt stated that he was wanting to rezone to R4 for the property located at Hwy 12 and Little Marrowbone. Mr. Rick Gregory stated that this is a request to rezone approximately three (3) acres from R-1 Low-Density Residential district to R-4 High-Density Residential district. He stated that permitted uses in the R-4 district include duplex dwellings, Multi-family dwellings, and a number of uses permitted as special exceptions. Mr. Gregory stated that oddly, single-family dwellings are not permitted but Planned Developments are listed as special exceptions even though multi-family dwellings are permitted uses. He stated that residential density is 3,000 square feet per unit and this approximately three (3) acres would yield a maximum of 44 residential dwellings. Mr. Gregory stated that this property is currently zoned R-1 Low-Density Residential district and properties surrounding this request are all zoned R-1 Low-Density Residential. He stated that Vantage Pointe and other properties west of Marrowbone Creek are zoned R-4 and a parcel approximately 4.49 acres in size was recently rezoned R-4 and is the subject of a site plan request for approval on tonight's agenda. Mr. Gregory stated that the property is located just south of Fire Station # 2 but does not physically adjoin this property. He stated that this request for R-4 zoning isn't sufficient in the area to be considered a standalone district but if viewed along with that recently rezoned 4.49-acre parcel it may be considered to be the initial phase(s) of a standalone R4 district. Further, he stated that there are no "transition" districts to separate this proposed rezoning from the existing R-1

properties surrounding it and while it adjoins the city's fire station, it is a significant departure from the existing developed properties. Mr. Gregory recommended that due to the significant differences between residential densities permitted in the R-1 and R-4 districts, this request is premature and staff cannot yet recommend this request. Mayor Allen asked if this was considered spot zoning. Mr. Gregory stated that it is small enough and that it could be if others join. He stated that it is not far from the other 4 acres on the agenda tonight that is already rezoned, but with the size alone, it could be considered that. Committee Member Foston questioned if it was 44 units being built. Mr. Gregory stated that was the maximum amount that could be built there. Committee Member Greer asked if there would be a study done regarding the traffic coming off Little Marrowbone or if there would be a traffic light installed. Mr. Gregory stated that it could be asked of them, but that it would be a burden due to the expense. Committee Member Stuart asked what type of structures would be going there. Mr. Holt stated that it would be brick, hardy board, and rock units at 1840 sq foot with 1620 sq foot living space. He stated there would be 35 units total. Committee Member Greer asked how many of the units would be rentals. Mr. Holt stated that these units would be for sale and they were looking to sell them for around \$299,000 per unit. After much discussion, a motion was made by Committee Member Allen, seconded by Committee Member Smith, to approve the rezone request. Voting Yea: Committee Member Allen, Committee Member Foston, Committee Member Greer, Committee Member Smith, Committee Member Stuart.

3. Site Plan Approval: Waffle House

Mr. Walter Barineau stated that he was seeking site plan approval for the site located between Taco Bell and Popeye's. He stated that this is pretty straightforward and it is a flat site. Mr. Barineau stated that they have been working through a few technicalities with his team and our engineers, but they are significantly there. He stated that they are looking forward to being a part of our growing community. Mr. Rick Gregory stated that this is a request for approval of an approximately 1,775 square foot restaurant and staff review identified several minor technical issues that should be addressed prior to the start of construction. Mayor Allen asked about enforcing the sign. Mr. Gregory stated that they would have to meet the sign ordinance. He stated that with the corrections, staff recommends approval. A motion was made by Committee Member Allen, seconded by Committee Member Stuart, to approve the site plan with the proper changes identified in the Charter and from the planner. Voting Yea: Committee Member Allen, Committee Member Foston, Committee Member Greer, Committee Member Smith, Committee Member Stuart.

4. Site Plan Approval: 1807 Hwy 12S

Committee Member Mike Stuart declared a conflict for the record. Josh Lyon stated he was with Klobner Engineering and was seeking site plan approval for 1807 Hwy 12S. He stated that he had received the comments from Mr. Gregory and they were working on those changes. Mr. Lyon stated that there had been some concern with the cemetery previously and that it would be remaining where it is. He stated that they would be placing a retaining wall around it. Mr. Gregory stated that this is a proposal for a 39 unit townhome development located adjacent to Fire Station #2 and staff review identified several minor technical issues that should be addressed prior to the start of construction. Mr. Gregory asked about access to the cemetery. Mr. Lyon stated that they could provide it. Mr. Gregory stated that with the corrections, staff recommends approval. Committee Member Foston questioned if any headstones would be moved. Committee Member Stuart stated that none have been moved and they wouldn't be. Committee Member Greer asked if there would be a turn lane added. Mr. Lyon stated that there would be a right turn in and a right turn out only. Committee Member Greer asked if we had Mr. Gregory's recommendation. Mr. Gregory stated yes, with his comments included. A motion was made by Committee Member Allen, seconded by Committee Member Smith, to approve the site plan with Mr. Gregory's recommended changes. Voting Yea: Committee Member Allen, Committee Member Foston, Committee Member Greer, Committee Member Smith. Voting Abstaining: Committee Member Stuart.

5. Powers and Duties of Municipal Planning Commissions

At this time, Mr. Gregory went over the Powers and Duties of Municipal Planning Commissions with the committee members.

OTHER

None.

ADJOURNMENT

A motion was made by Committee Member Stuart, seconded by Committee Member Smith, to adjourn the meeting. The meeting adjourned at 6:56 p.m.

CHAIRMAN STEVEN STRATTON

CITY RECORDER ALICIA MARTIN, CMFO

DRAFT

This Ashland City Temporary Use Permit will be good for the following dates starting 1st of April to end on 1st of Nov
Permit issued will be 1 per person per location per year

This permit is for use in any district / or ward {not in industrial area} inside the city limits of Ashland City Tennessee

Permit is good for the Time frame of not to start business before 8:30am & all business to end at location by 6:00pm daily

Cost of this Ashland City Temporary Use Permit will be \$25.00 per year

What is needed to apply for the Permit at the Ashland City Office:
You must produce a Current Business License from Cheatham County & Business License from Ashland City

Rules you will have to follow with this permit:

This permit will only be valid for the location that is put on the application at time of submission to the city {you cannot change locations without a new permit}

You must Have a Current Copy of your Business Permit from County, City and a Copy of your Temporary Use Permit at your selling location for easily to be seen by all to see visiting your location of business

You must have adequate off the road parking at your location

You must not cause a Traffic Flow problem on the main road at your location

Your location must stay organized, cleanly kept & no trash stored outside of trash containers

All Produce/Goods or Temporary Structures must be no less than 30 feet away from roadway

All temporary structures if vacant for more than 7 days must be removed before the 8th day

On 1st of Nov - all temporary structures must be removed till the next years permit start on 1st April

IF ANY OF THESE RULES ARE NOT FOLLOWED - YOUR PERMIT WILL BE REVOLTED & you can be refused a Permit for the next year

No Permits will be issued to any locations/person that gives an address selling at, {that is considered by Zoning Board} this location is in a subdivision



September 23, 2021

Michael Dewey
RE: Old Hydes Ferry Pike (Indicated in attached drawing)
Ashland City, Tn 37015

To Michael Dewey

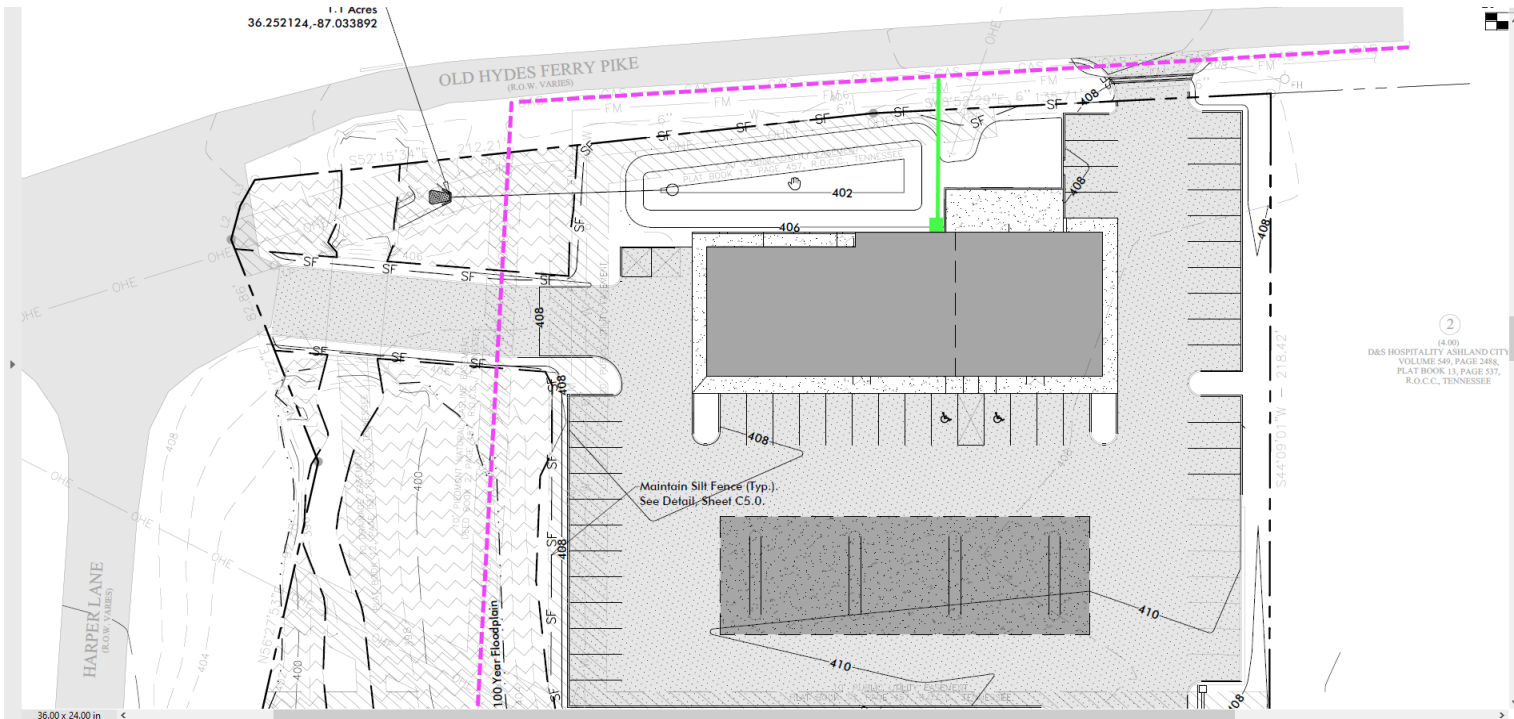
In response to your request, natural gas is or can be made available to the above mentioned property in Ashland City, TN. Please have business owner contact us with specific natural gas needs (total connected btu/cfh of natural gas equipment) to determine if any costs are applicable.

If you need further assistance, please do not hesitate to contact Matt Brown. He can be reached at 615-872-2349.

Sincerely,

PIEDMONT NATURAL GAS

Matt Brown
Commercial/Residential Sales Specialist
Matt.Brown@duke-energy.com



DHAVAL PATEL

ASHLAND CITY C-STORE

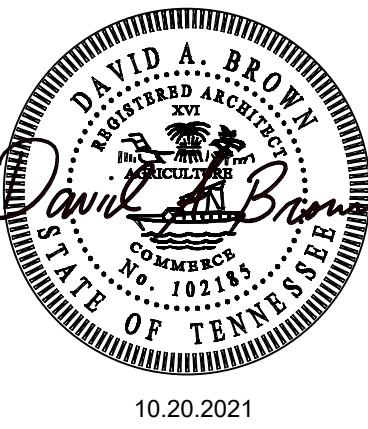


ASHLAND CITY C-STORE

DHAVAL PATEL
0 Old Hydes Ferry Pike, Ashland City, TN 37015

CLIENT CONTACT:
DHAVAL PATEL
(615) 588-5887 | dhawalom@gmail.com

MERIDIAN ARCHITECTURE



10.20.2021

nashville, tennessee
e: office@meridiantn.com
t: 615.390.2236
www.meridiantn.com

REVISIONS:

DELTA	DESCRIPTION	DATE

DATE OF ISSUE: 10.20.2021

MA PROJECT NO: 0214-21

PROJECT PHASE: CD

DRAWN BY: TEAM

COVER SHEET

G-001

ITEM # 4.

CONSULTANT INFO

Dewey Engineering
2925 Berry Hill Drive
Nashville, Tennessee 37204
Michael Dewey
mdewey@dewey-engineering.com
(615) 401-9956

Scallion Structural Engineering
401 Redfield Drive
Jackson, TN 38305
Jeremy Scallion
jeremy@scallionstructural.com
(731) 217-1614

Win Engineering
2 International Plaza, Suite 410
Nashville, Tennessee 37217
Lori A. Walters
lwalters@winengineer.com
(615) 891-4565
(615) 400-8371

SPECIAL INSPECTIONS

Provide Special Inspections during construction as required by IBC 1704. A qualified Special Inspector must provide a Certificate of Special Inspection signed and sealed by a Registered Professional Engineer prior to commencing work.

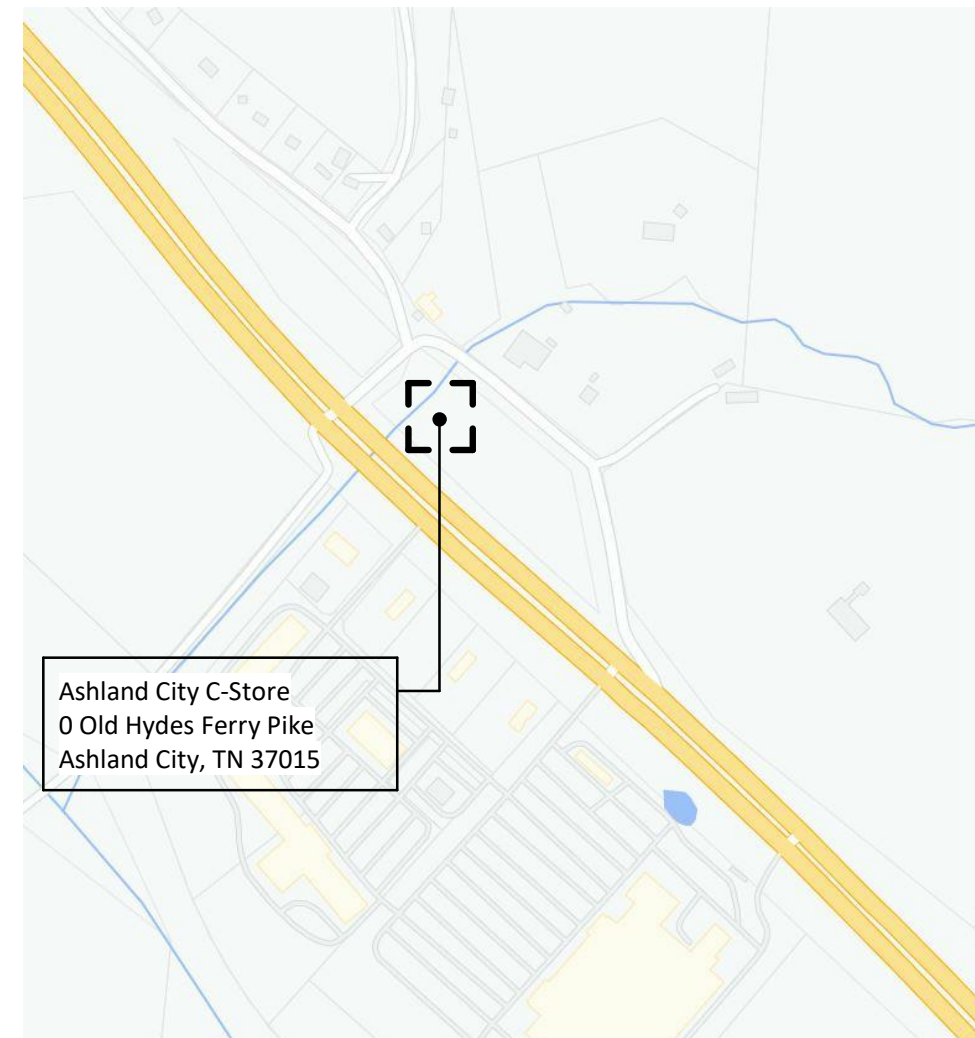
Submit Reports to the Building Official and the Architect in a timely manner, per Section 13300.

STRUCTURAL SPECIAL INSPECTIONS

Inspections must be performed as specified in General Structural Notes on the Structural Drawings. May include but not limited to:

- Anchor Bolts
- Structural Steel Braced Frames
- Multi-pass field welds
- Attachment of metal roof deck

VICINITY MAP



SHEET INDEX

general

SHEET #	DESCRIPTION	ORIG. ISSUE	REV. DELTA #	REV. DATE
G-001	COVER SHEET	10/20/2021		
G-002	PROJECT INFORMATION	10/20/2021		
G-003	WALL & ROOF TYPES	10/20/2021		
G-004	ADA DETAILS	10/20/2021		
G-005	ADA DETAILS	10/20/2021		
G-006	ADA DETAILS	10/20/2021		

civil

SHEET #	DESCRIPTION	ORIG. ISSUE	REV. DELTA #	REV. DATE
C0.0	Cover Sheet	10/20/2021		
C1.0	Layout & Utilities Plan	10/20/2021		
C2.0	Existing Conditions & Initial Erosion Control Plan	10/20/2021		
C3.0	Intermediate Erosion Control Plan	10/20/2021		
C4.0	Grading & Drainage Plan	10/20/2021		
C5.0	Details	10/20/2021		
C5.1	Details (Cont.)	10/20/2021		
L1.0	Landscape Compliance Plan	10/20/2021		

architectural

SHEET #	DESCRIPTION	ORIG. ISSUE	REV. DELTA #	REV. DATE
AS102	ARCHITECTURAL SITE PLAN	10/20/2021		
A-101	FIRST FLOOR PLAN	10/20/2021		
A-102	FIRST FLOOR DIMENSION PLAN	10/20/2021		
A-103	REFLECTED CEILING PLAN	10/20/2021		
A-104	ROOF PLAN	10/20/2021		
A-105	EQUIPMENT	10/20/2021		
A-201	BUILDING ELEVATIONS	10/20/2021		
A-202	BUILDING 3D VIEWS - EXTERIOR	10/20/2021		
A-203	INTERIOR ELEVATIONS	10/20/2021		
A-204	BUILDING 3D VIEWS - INTERIOR	10/20/2021		
A-301	BUILDING SECTIONS	10/20/2021		
A-302	WALL SECTIONS	10/20/2021		
A-501	EXTERIOR / INTERIOR DETAILS	10/20/2021		
A-601	DOOR & WINDOW SCHEDULES, ELEVATIONS	10/20/2021		
A-701	FIRST FLOOR FINISH PLAN	10/20/2021		
A-800	FOR INFORMATION ONLY - COOLER / FREEZER	10/20/2021		

structure

SHEET #	DESCRIPTION	ORIG. ISSUE	REV. DELTA #	REV. DATE
S1.0	General Notes	10/20/2021		
S1.1	Quality Assurance Plan	10/20/2021		
S2.0	Foundation Plan	10/20/2021		
S3.0	Canopy Framing Plan	10/20/2021		
S3.1	Low Roof Framing Plan	10/20/2021		
S3.2	High Roof Framing Plan	10/20/2021		
S4.0	Base Plate and Pier Details	10/20/2021		
S4.1	Foundation Sections	10/20/2021		
S5.0	Typical Framing Sections	10/20/2021		
S5.1	Canopy Framing Sections	10/20/2021		
S5.2	Roof Framing Sections	10/20/2021		
S6.1	Framing Elevations	10/20/2021		
S6.2	Framing Elevations	10/20/2021		

mechanical

SHEET #	DESCRIPTION	ORIG. ISSUE	REV. DELTA #	REV. DATE
M-101	MECHANICAL PLAN	10/20/2021		
M-102	MECHANICAL GAS PLAN	10/20/2021		
M-201	MECHANICAL HOOD SPECIFICATIONS	10/20/2021		
M-202	MECHANICAL HOOD SPECIFICATIONS	10/20/2021		
M-203	MECHANICAL HOOD SPECIFICATIONS	10/20/2021		
M-204	MECHANICAL HOOD SPECIFICATIONS	10/20/2021		
M-205	MECHANICAL HOOD SPECIFICATIONS	10/20/2021		
M-206	MECHANICAL HOOD SPECIFICATIONS	10/20/2021		
M-207	MECHANICAL HOOD SPECIFICATIONS	10/20/2021		
M-208	MECHANICAL HOOD SPECIFICATIONS	10/20/2021		
M-209	MECHANICAL HOOD SPECIFICATIONS	10/20/2021		
M-210	MECHANICAL HOOD SPECIFICATIONS	10/20/2021		
M-211	MECHANICAL HOOD SPECIFICATIONS	10/20/2021		

plumbing

SHEET #	DESCRIPTION	ORIG. ISSUE	REV. DELTA #	REV. DATE
P-101	PLUMBING PLAN	10/20/2021		
P-102	PLUMBING RISER PLAN	10/20/2021		

electrical

SHEET #	DESCRIPTION	ORIG. ISSUE	REV. DELTA #	REV. DATE
E-001	ELECTRICAL LEGENDS & SCHEDULES	10/20/2021		
E-002	ELECTRICAL PANEL SCHEDULES RISER DIAGRAM	10/20/2021		
E-003	ELECTRICAL LIGHT FIXTURE SCHEDULE IECC REPORT	10/20/2021		
E-101	ELECTRICAL LIGHTING FLOOR PLAN	10/20/2021		
E-102	ELECTRICAL POWER FLOOR PLAN	10/20/2021		
E-103	ELECTRICAL HVAC POWER ROOF & FLOOR PLANS	10/20/2021		
E-200	ELECTRICAL SPECIFICATIONS	10/20/2021		

ABBREVIATIONS LIST

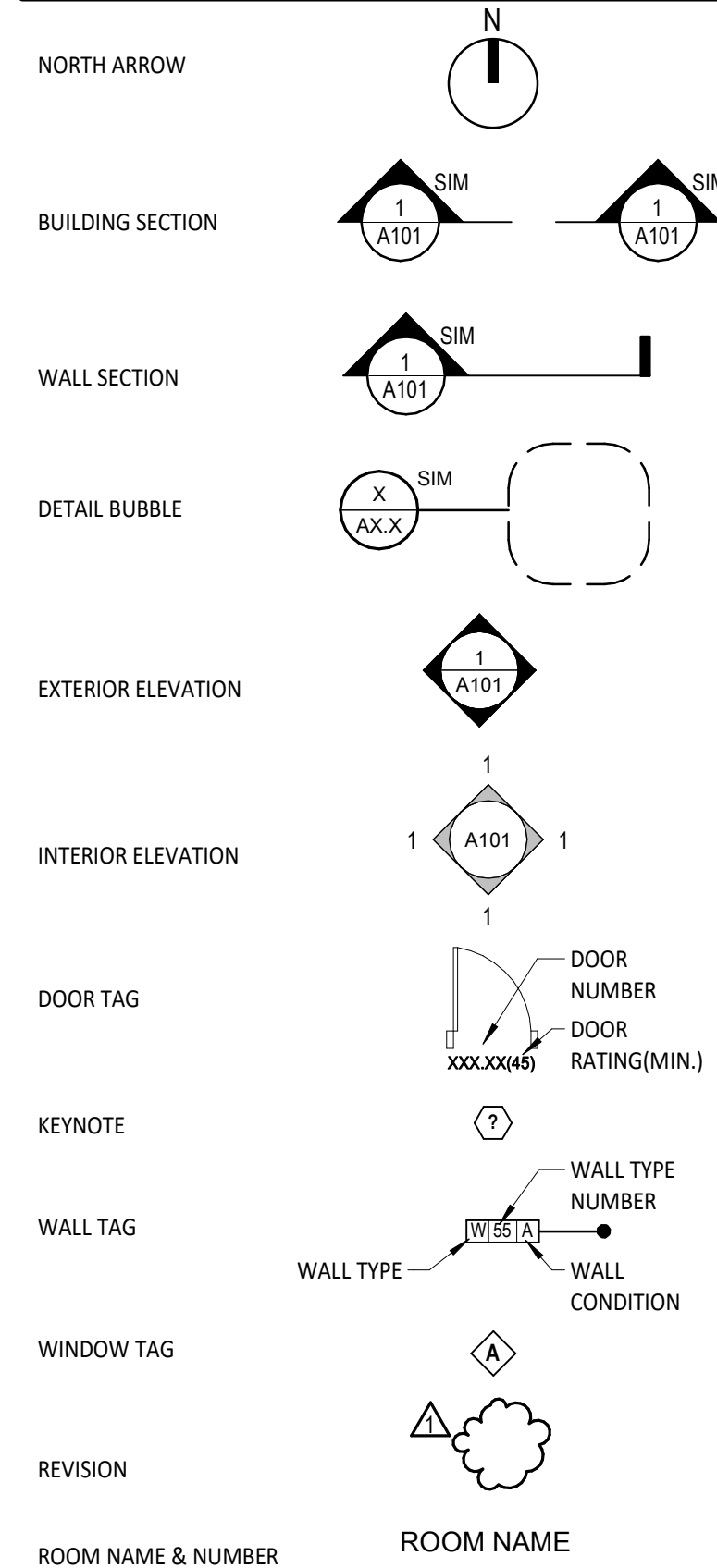
AB Anchor Bolt	MAS Masonry
ABC Aggregate Base Course	MAX Maximum
A/C Air Conditioning/Conditioner	MECH Mechanical
ACT Acoustical Ceiling Tile	MFR Manufacturer
AFF Above Finish Floor	MO Masonry Opening
ALT Alternate	MIN Minimum
ALUM Aluminum	MISC Miscellaneous
	MTL Metal
BRG Bearing	NIC Not in Contract
BUR Built up roof	NTS Not To Scale
BM Beam	
CI Cast Iron	OC On Center
CI Control Joint	OD Outside Diameter
CL Center Line	OPP Opposite
CLG Ceiling	ORD Overflow Roof Drain
CLR Clear	
CMU Concrete Masonry Unit	PL Property Line
CO Clean Out	PLAM Plastic Laminate
COL Column	PLMB Plumbing
CONC Concrete	PLYWD Plywood
CONT Continuous	PWR Power
CPT Carpet	RD Roof Drain
CT Ceramic Tile	RO Rough Opening
DF Drinking Fountain	SCHED Schedule
DIA Diameter	SF Square Foot
DIM Dimension	SHT Sheet
DS Downspout	SIM Similar
DWG Drawing	SLV Short Leg Vertical
EDF Electric Drinking Fountain	SPEC Specifications
ELEC Electrical	SQ Square
EJ Expansion Joint	STD Standard
EL Elevation	STRL Structural
EQ Equal	S/S Stainless Steel
EXIST Existing	SS Sanitary Sewer
EXT Exterior	SUS Suspended
FBO Furnished By Owner	T & G Tongue and Groove
FD Floor Drain	TEMP Tempered
FDC Fire Department Connection	TLT Toilet
FEC Fire Extinguisher Cabinet	TOJ Top of Joist
FF Finished Floor	TOB Top of Beam
FG Finished Grade	TOC Top of Curb/Conc.
FIN Finish	TOM Top of Masonry
FLR Floor	TOP Top of Plate
	TOS Top of Steel
GA Gauge	TOW Top of Wall
GAL Galvanized	TYP Typical
GLB Glue Laminated Beam	
GWB Gypsum Wall Board	UG Underground
GYP Gypsum	UNO Unless Noted Otherwise
HB Hose Bibb	VCT Vinyl Composition Tile
HM Hollow Metal	VERT Vertical
HORIZ Horizontal	
HVAC Heating/Ventilating/Air Conditioning	WC Water Closet
ID Inside Diameter	WD Wood
INFO Information	WH Water Heater
INT Interior	WWF Welded Wire Fabric
LAV Lavatory	
LLG Long Leg Vertical	
LVR Louver	

MATERIALS LEGEND

NOTE: PATTERNS SHOWN REPRESENT CUT MATERIALS IN PLAN OR SECTION, UNLESS NOTED OTHERWISE ABOVE.

	EARTH
	GRANULAR FILL
	SAND, GROUT AS NOTED
	CAST-IN-PLACE CONCRETE
	PRECAST CONCRETE, CAST STONE
	CONCRETE MASONRY UNIT
	BRICK MASONRY
	STONE: LIMESTONE, GRANITE, MARBLE OR AS NOTED
	TERRA COTTA, STRUCTURAL CLAY TILE
	METAL: TYPE AS NOTED
	METAL: ROLLED SHAPES
	FINISHED WOOD SHOWN CUT AND ELEVATION
	ENGINEERED WOOD: GLUE LAMINATED
	WOOD FLOOR, WOOD SHINGLES, OR SIDING
	PARTICLEBOARD
	PLYWOOD
	GLASS FIBER REINFORCED CONCRETE SIDING OR TRIM
	EIFS
	SPRAYED FIREPROOFING SHOWN ON ROLLED SHAPE
	BATT INSULATION: THERMAL OR ACOUSTICAL, UNO
	RIGID INSULATION: THERMAL, ACOUSTICAL, OR SAFING
	SHEATHING: GYPSUM, OR AS NOTED
	ACOUSTICAL CEILING TILE
	WOOD FRAMING / BLOCKING: CONTINUOUS
	WOOD SHIM
	MEMBRANE: WATERPROOF, ROOF, DAMPPROOFING
	AIR BARRIER SYSTEM

TYPICAL SYMBOLS LEGEND



PROJECT GENERAL NOTES

- Do not scale drawings. Rely only on Architect's written dimensions.
- Typical details may not be necessarily be cut on plans, but apply unless noted otherwise.
- All work and material shall be regarded as new unless specifically indicated as "existing" or "(e)" on the drawings and/or within the specifications.
- Contractor shall coordinate all trades and methods of construction as required for completion of the project with the intent of these documents.
- All materials and unfinished surfaces exposed to view shall be painted unless factory prefinished, noted otherwise, or directed by the Architect.
- No utilities, plumbing, piping, conduit, etc. shall be exposed without the written approval of the Architect.
- Should dimensions be missing or conflicting, notify the Architect prior to proceeding with related work.
- Contractor shall verify locations of utilities prior to excavating, trenching, etc. and shall repair or replace utilities damaged as a result of construction.
- Contractor shall be responsible for all temporary shoring and bracing required during construction.
- Security and safety are the Contractor's responsibility. Site shall be completely fenced and secured during construction.
- No asbestos shall be used or incorporated into the project in any form.
- Separate dissimilar metals as they occur and/or per manufacturer's recommendations.
- Apply sealant at intersections of all dissimilar materials.

Plumbing Fixture Calculations
See IBC Chapter 29

Group	Description	Total Occ	Each Sex	Toilets		Urinals (mxf*)		Lavatories		Bathubs/ Showers	Drinking Fountains	Service Sinks
				Men	Women	Men	Women	Men	Women			
M	Mercantile	53	26.5	1.0	1.0	1.0	1.0	1.0	1.0	N/A	1.0	1/floor
Total Required				1	1	1	1	1	1	0	1	1
Total Provided				1	1	1	1	1	1	0	1	1

Required Accessibility

Accessible Toilets:	1 per bathroom
Accessible Sinks:	1 per bathroom

CODE INFORMATION

BUILDING CODE:
2018 INTERNATIONAL BUILDING CODE (IBC)
2018 INTERNATIONAL FUEL GAS CODE
2018 INTERNATIONAL PLUMBING CODE (IPC)
2018 INTERNATIONAL MECHANICAL CODE (IMC)
2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
2018 INTERNATIONAL FIRE CODE

2017 NFPA NATIONAL ELECTRIC CODE (NEC)

AMERICANS WITH DISABILITY ACT (ADA)
ICC / ANS A 117.1

NFPA 101 LIFE SAFETY CODE

OCCUPANCY TYPE:
GROUP M (MERCANTILE)
GROUP B (BUSINESS)
STORAGE S-2

CONSTRUCTION TYPE:
TYPE II-B UNSPRINKLERED BUILDING

FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS:
TYPE II-B:
PRIMARY STRUCTURAL FRAME: 0 HOURS
BEARING WALLS (EXTERIOR / INTERIOR): 0 HOUR
FLOOR CONSTRUCTION:
ROOF CONSTRUCTION:

ALLOWABLE BUILDING HEIGHT:
TYPE II-B: 55 FT.

ALLOWABLE NUMBER OF STORIES ABOVE GRADE PLANE:
TYPE II-B: 3 STORIES

ALLOWABLE AREA:
TYPE II-B (NON-SPRINKLERED): 12,500

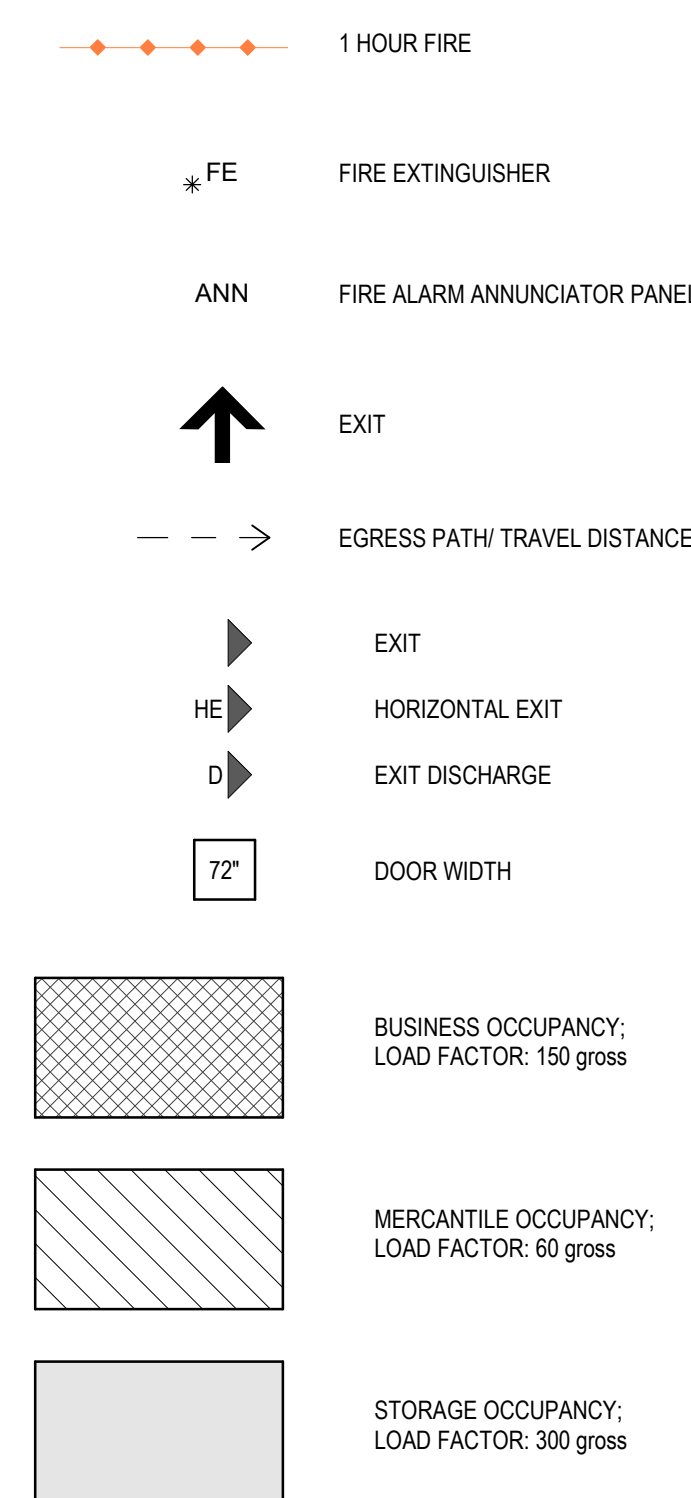
TRAVEL DISTANCE:
W/ SPRINKLER SYSTEM: 250'
W/OUT SPRINKLER SYSTEM: 200'

OCCUPANT LOADS:
MERCANTILE 60 S.F. / PERSON
STORAGE / MECH 300 S.F. / PERSON
BUSINESS 100 S.F. / PERSON

BUILDING AREAS & OCCUPANT LOAD:
MERCANTILE / 60 3,196 S.F. 53 OCCUPANTS
BUSINESS/100 2,106 S.F. 14 OCCUPANTS
STORAGE/300 801 S.F. 3 OCCUPANTS
RESTROOM /60 57 S.F./EA. 1 OCCUPANT/EA.

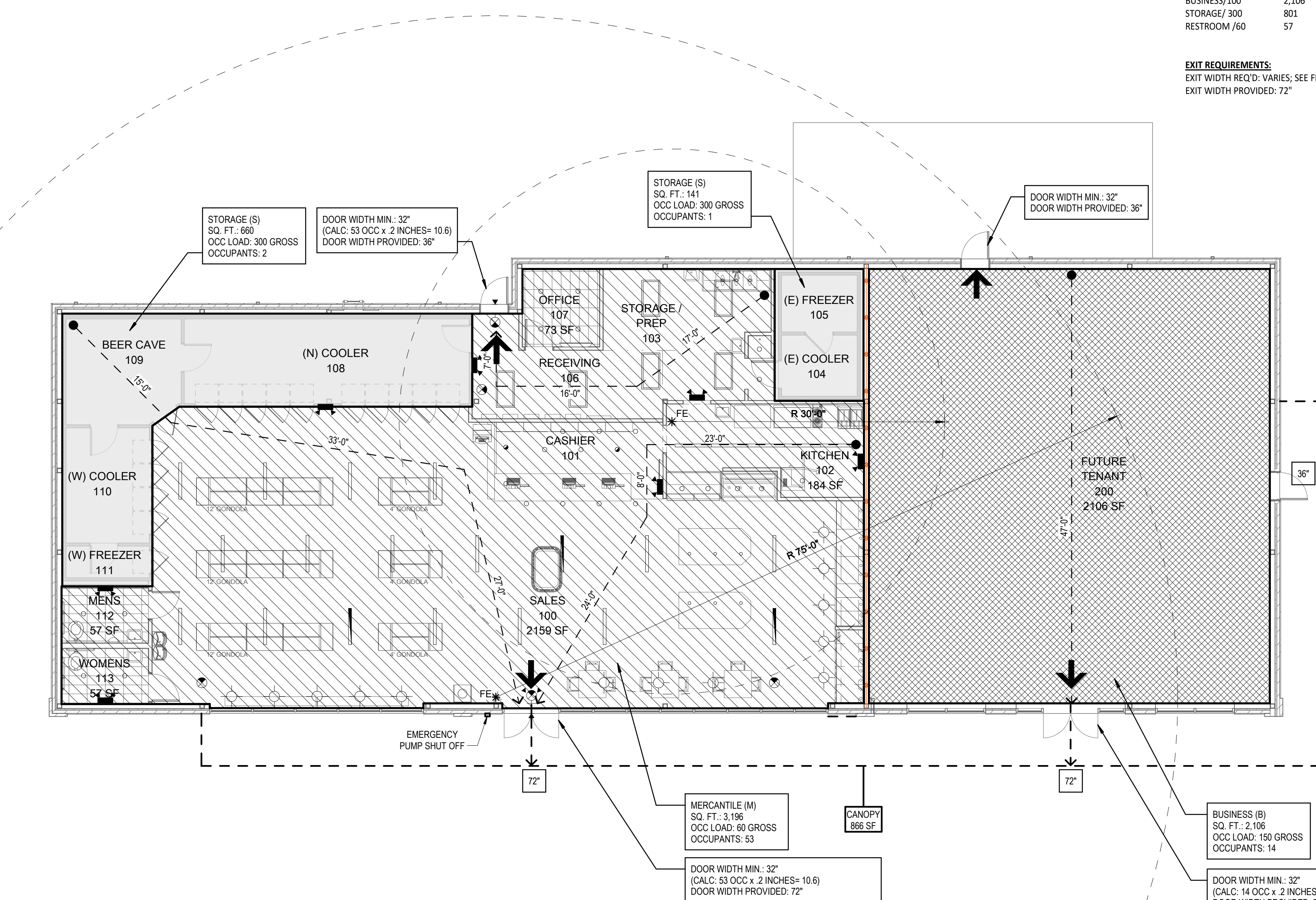
EXIT REQUIREMENTS:
EXIT WIDTH REQ'D: VARIES; SEE FIRST FLOOR LIFE SAFETY PLAN
EXIT WIDTH PROVIDED: 72"

CODE PLAN LEGEND



CODE GENERAL NOTES

- Fire Department access and water supply shall be in place prior to commencement of vertical construction.
- See reflected ceiling plans and electrical drawings for exit signs.
- All exits to be operable from the inside without the use of a key or any special knowledge.
- Panic hardware to be provided at each exit door from rooms with an occupant load of more than 50, including main corridor exterior exits.
- All utilities will be placed underground.
- Special structural inspections may be required. Review general structural notes for requirements.
- Special electrical inspections may be required. Review electrical drawings and specifications for requirements.
- Fire sprinklers and fire alarm system shall comply with NFPA No. 13. Submit all required drawings and information to A.H.J. Prior to commencement of any related work. Obtain approval of completed systems prior to final acceptance.



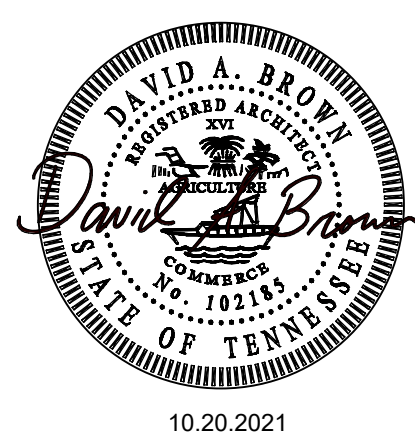
FIRST FLOOR - LIFE SAFETY PLAN



ASHLAND CITY C-STORE

MERIDIAN ARCHITECTURE

DHAVAL PATEL
0 Old Hydes Ferry Pike, Ashland City, TN 37015



nashville, tennessee
e: office@meridiantn.com
t: 615.390.2236
www.meridiantn.com

REVISIONS:

DELTA	DESCRIPTION	DATE

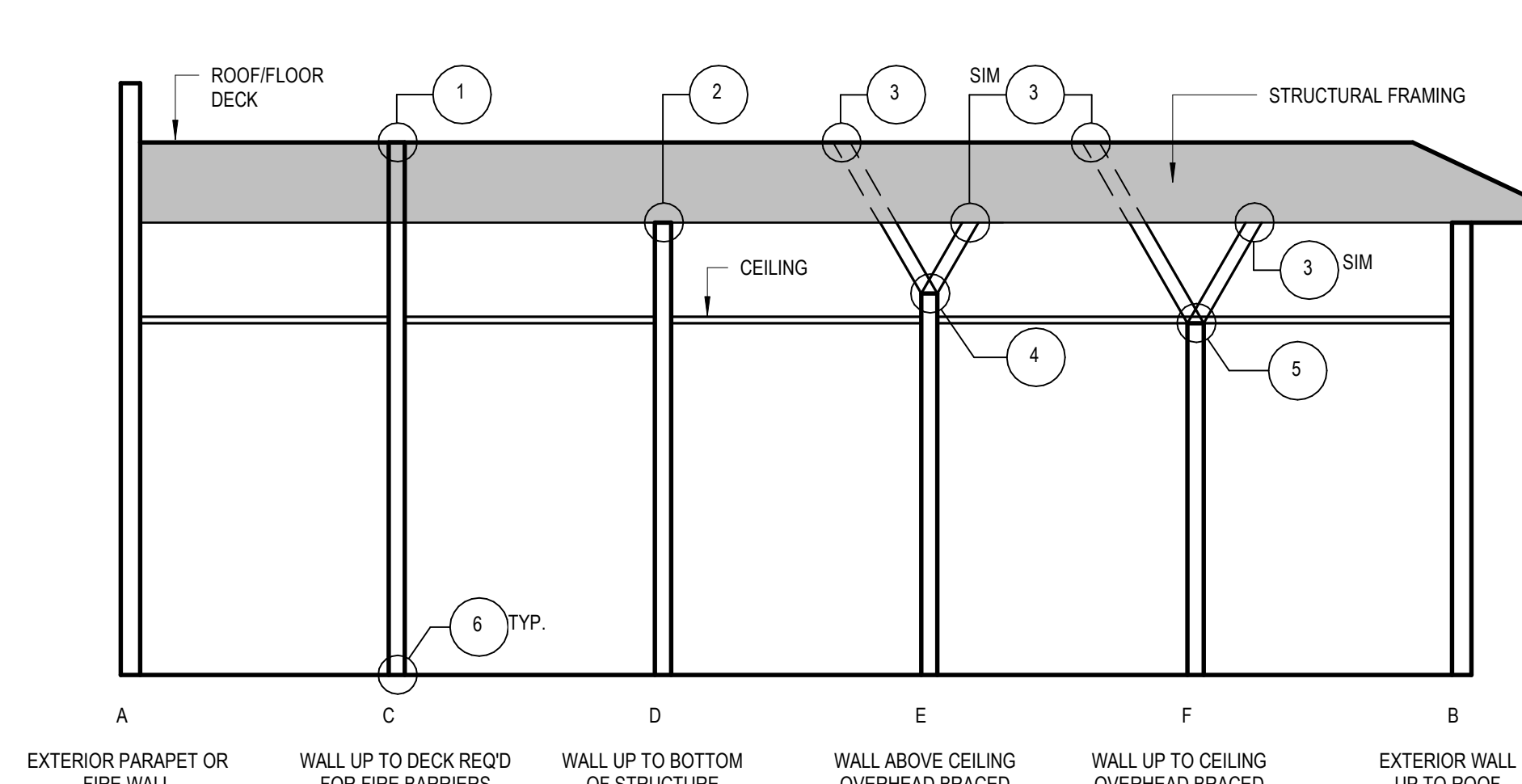
DATE OF ISSUE: 10.20.2021

MA PROJECT NO: 0214-21

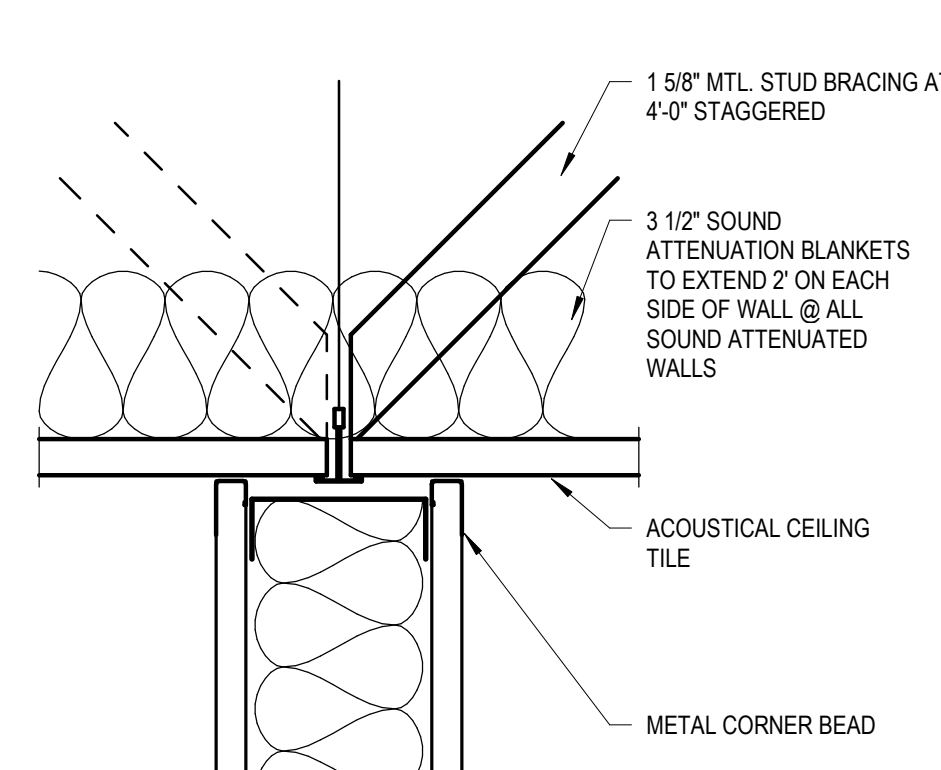
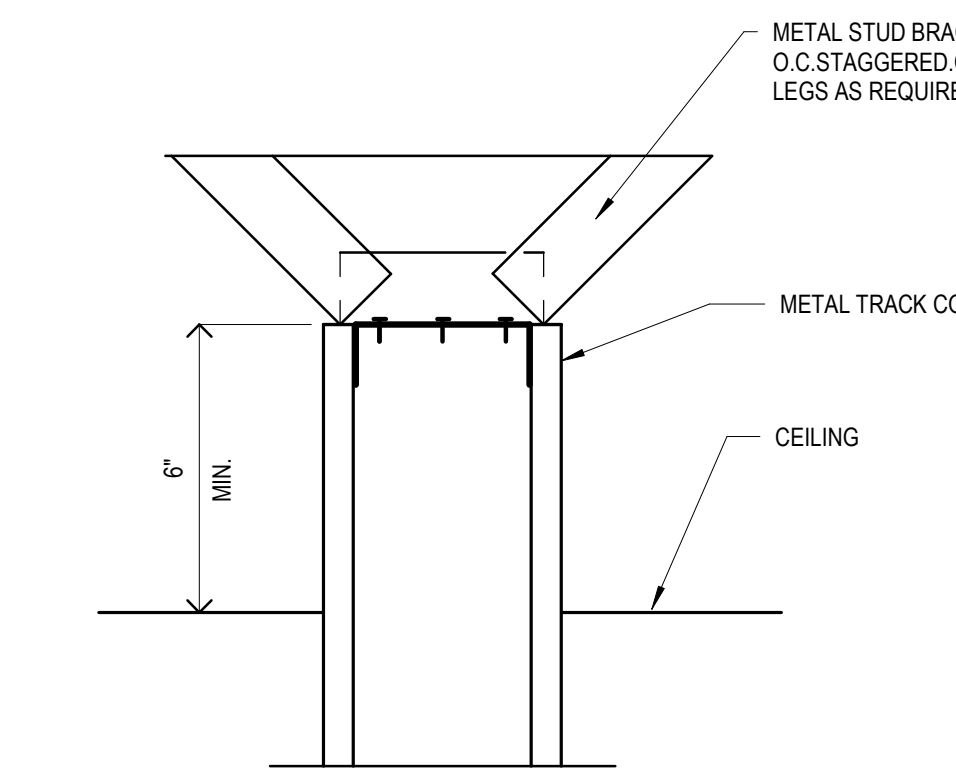
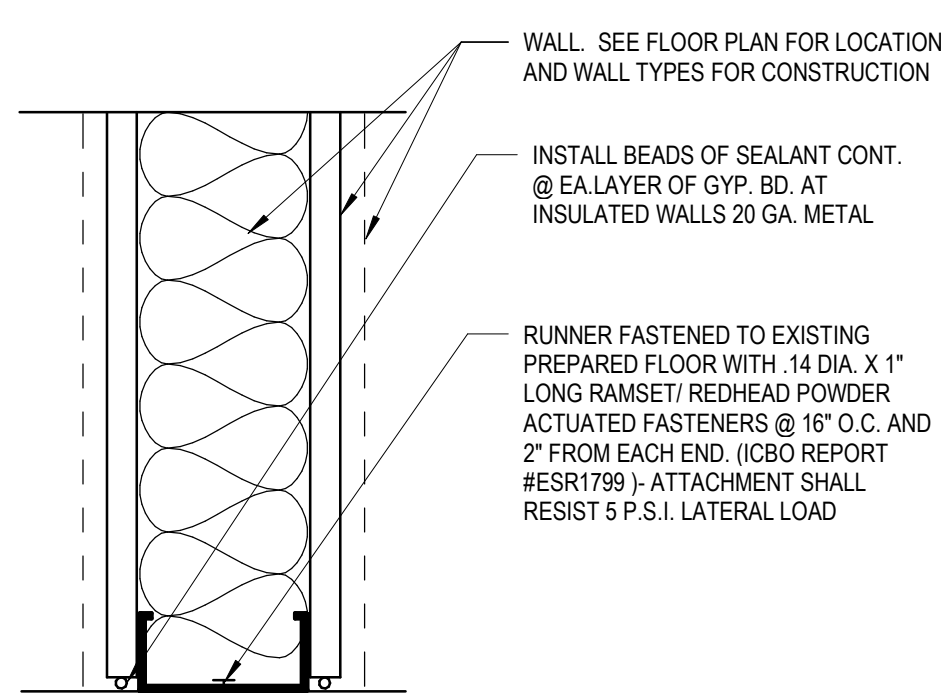
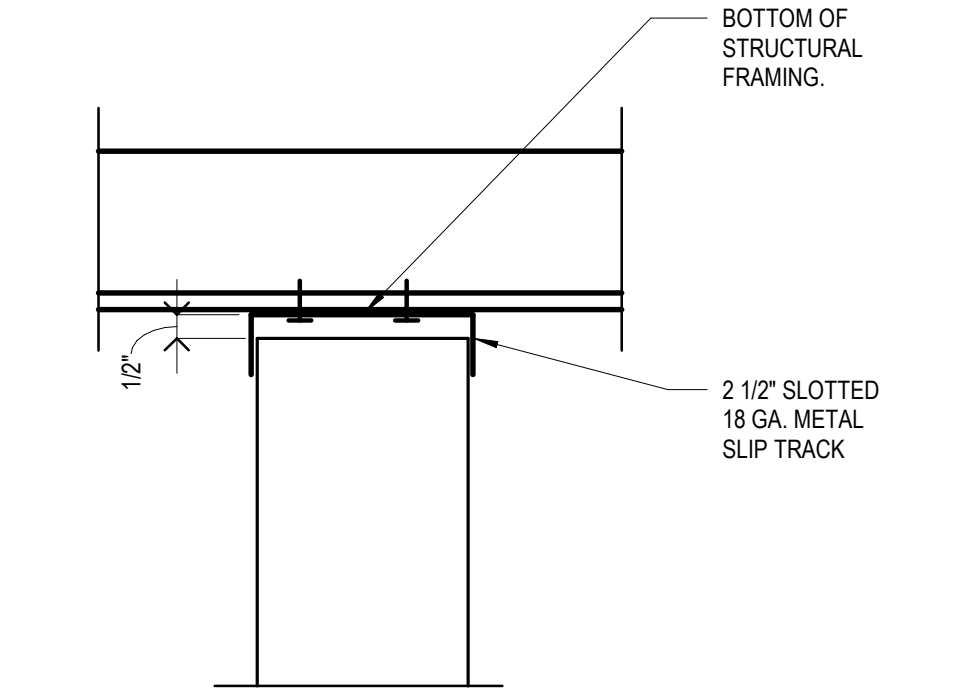
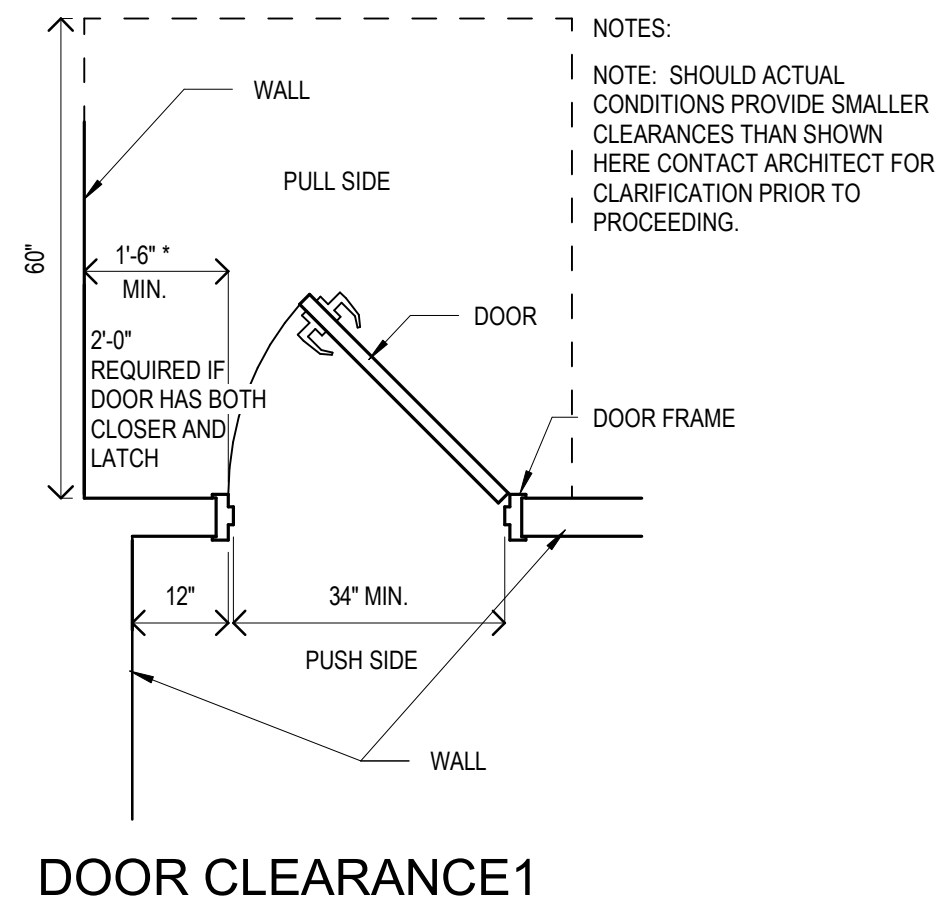
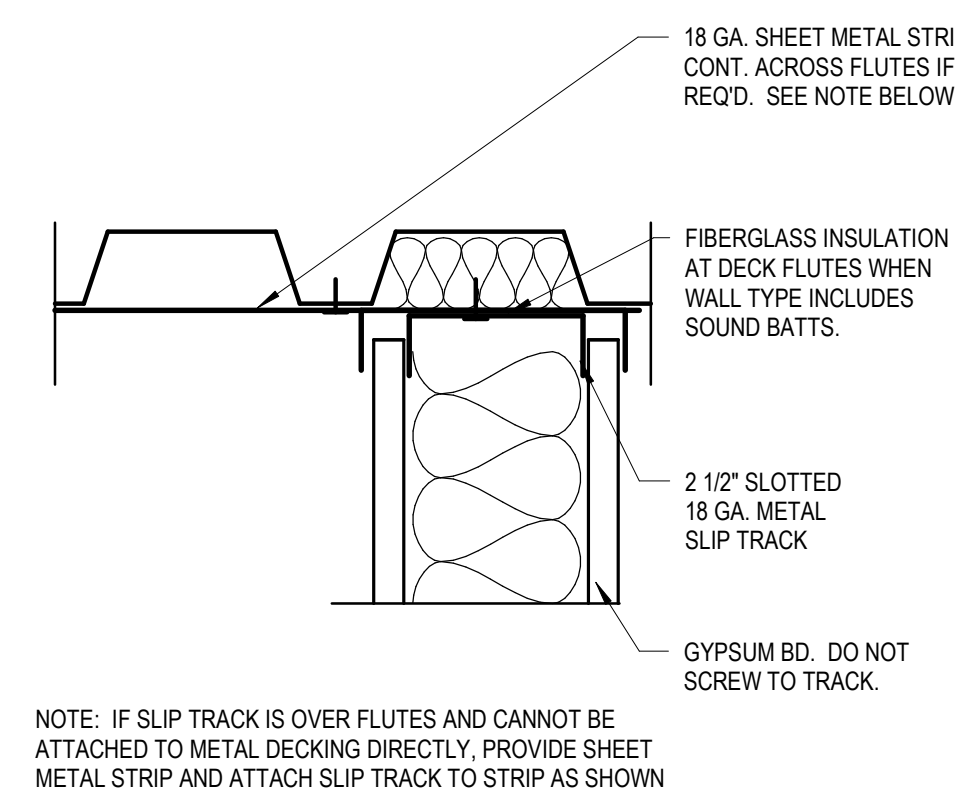
PROJECT PHASE: CD

DRAWN BY: TEAM

PROJECT INFORMATION
G-002
ITEM # 4

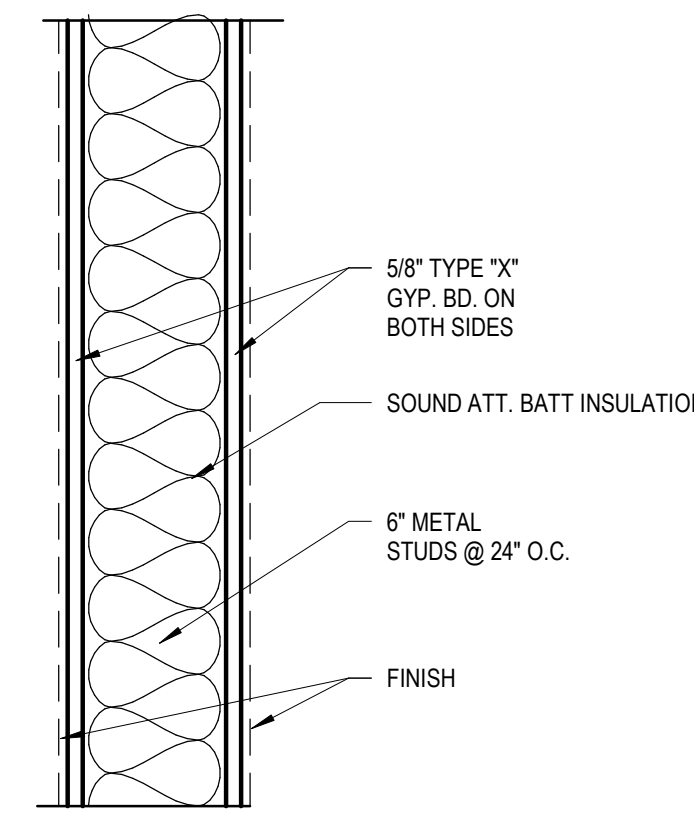


WALL COMBO CONDITIONS DIAGRAM



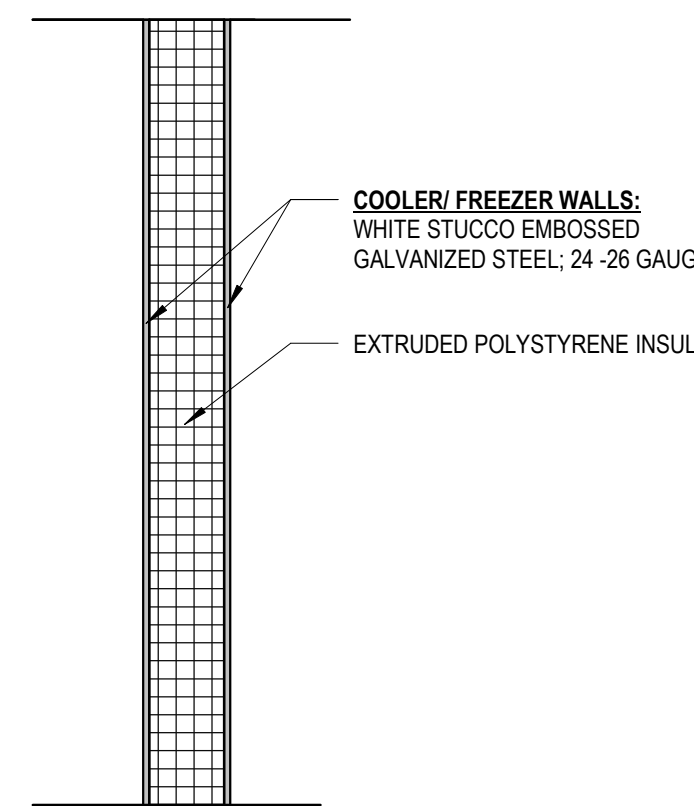
4 WALL AT CEILING 6 IN ABOVE1

5 WALL AT GRID CEILING1



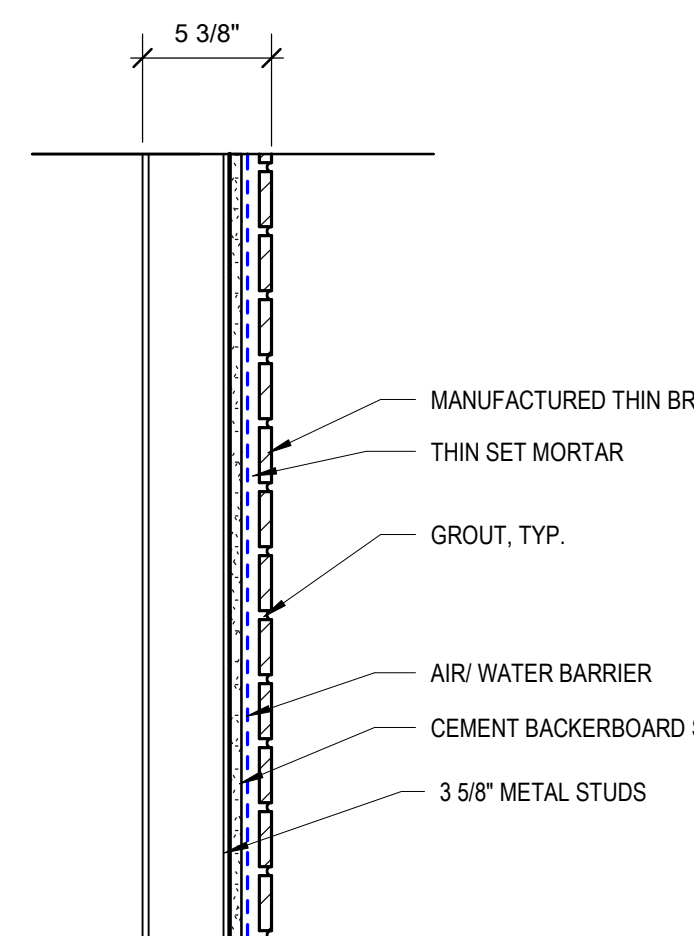
7 INTERIOR WALL TYPE

S 06 WALL TYPE



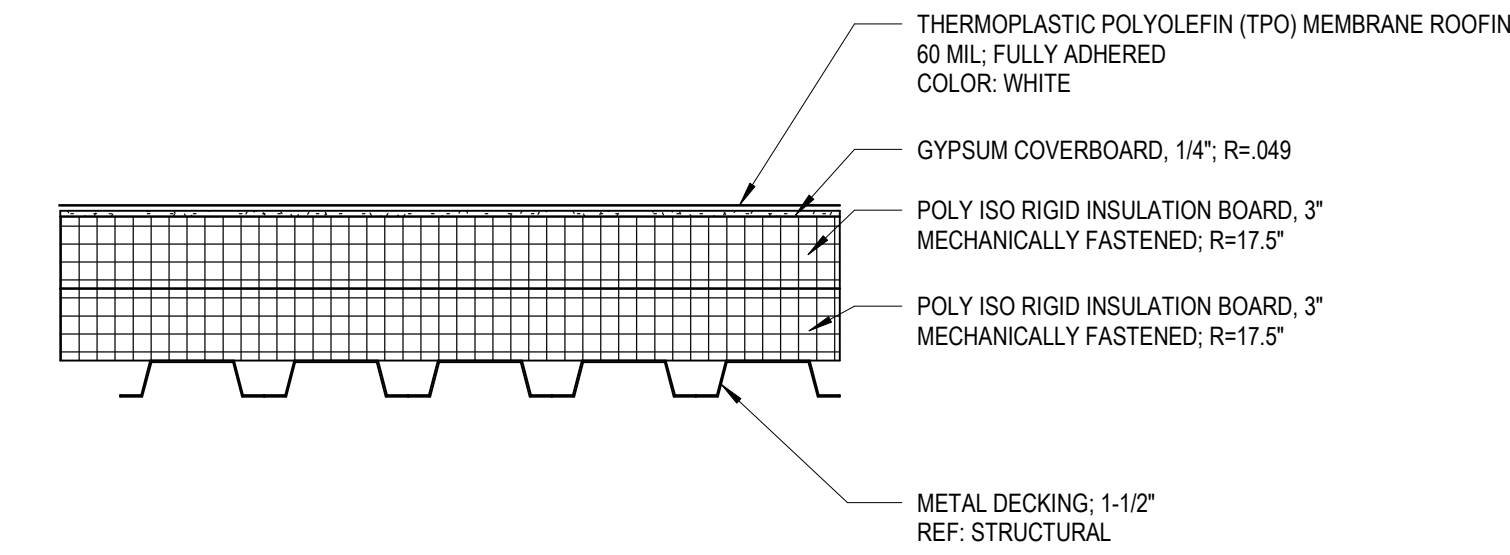
8 INTERIOR WALL TYPE

S 00 WALL TYPE



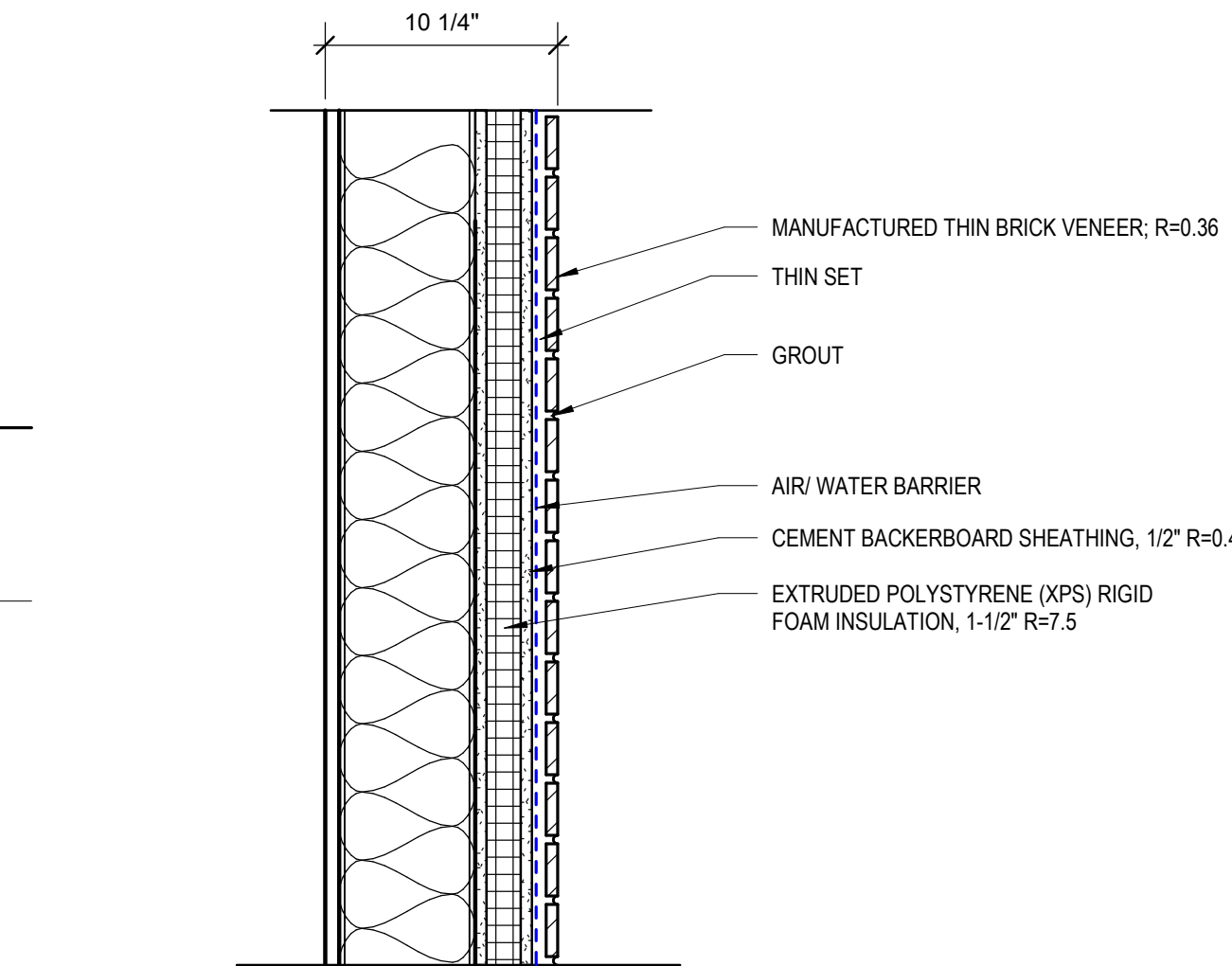
9 EXTERIOR WALL TYPE

W 04 WALL TYPE



R 01 ROOF TYPE

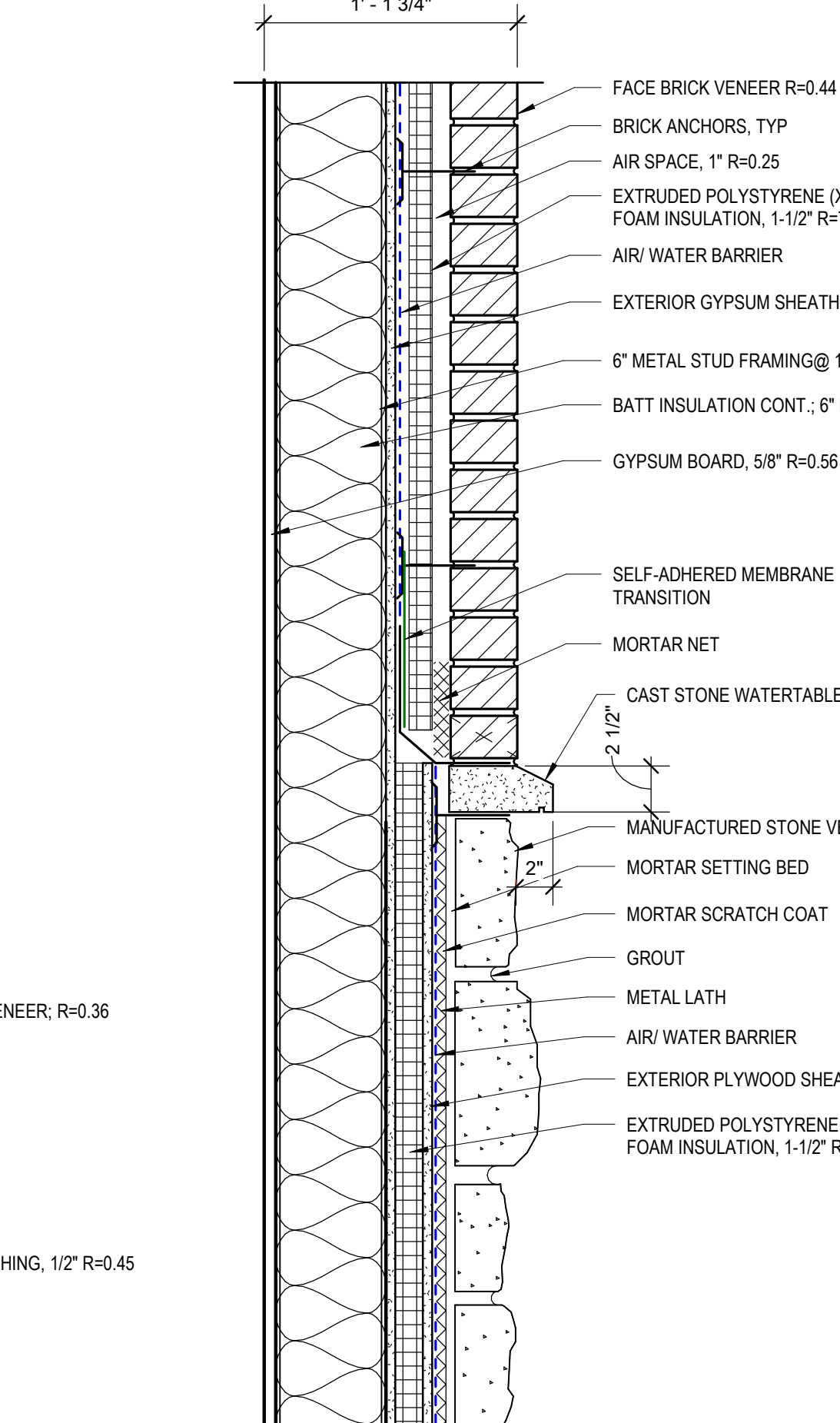
1 1/2" = 1'-0"



11 EXTERIOR WALL TYPE

W 03 WALL TYPE

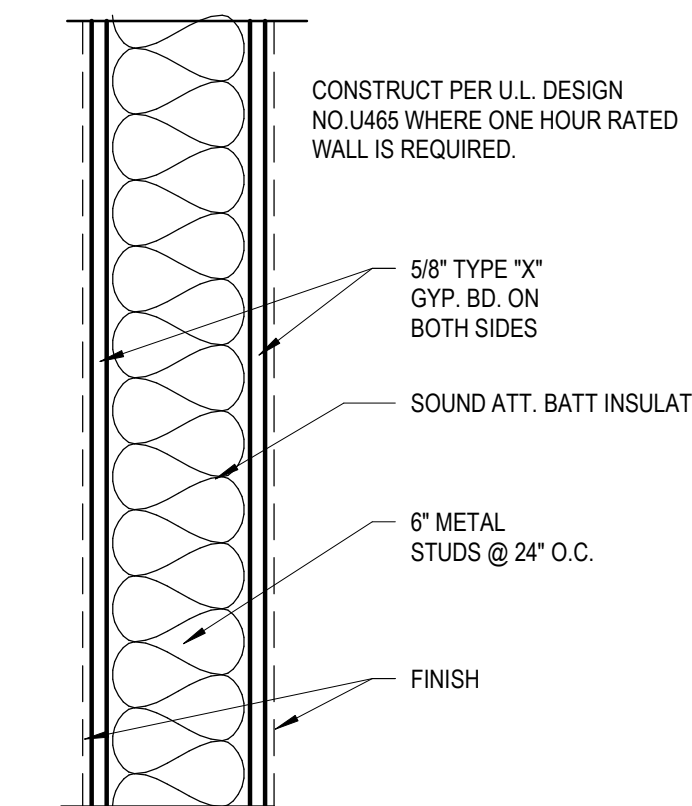
1 1/2" = 1'-0"



12 EXTERIOR WALL TYPE

W 01 WALL TYPE

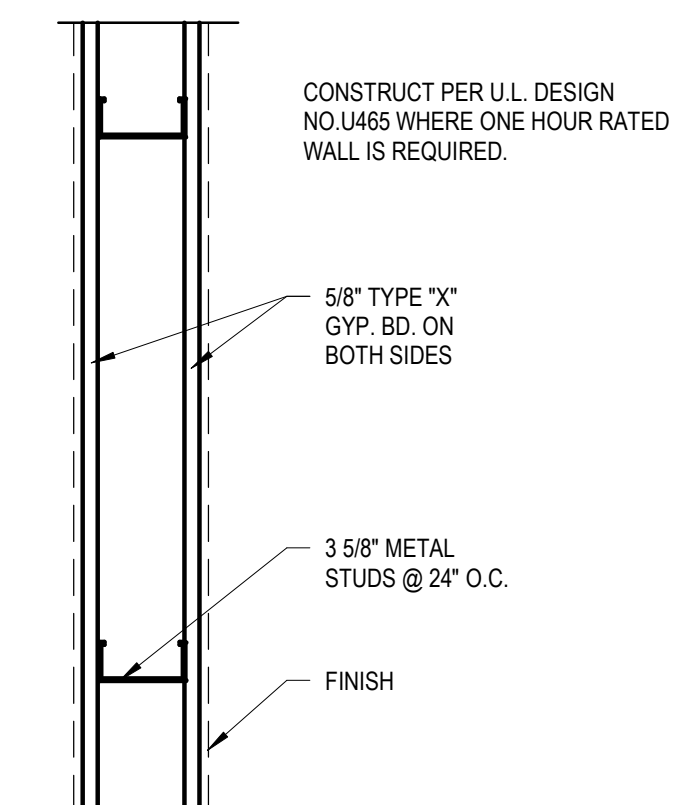
- WALL & PARTITION GENERAL NOTES**
- All fire rated walls shall be completely and continuously constructed first, and then other non-rated walls constructed to the finished surface.
 - All fire rated walls extend full height to structure above and seal to deck, UNO. See Fire Rated Details for approved joint conditions.
 - All penetrations at smoke and fire rated assemblies shall be protected, sealed, and dampened, using only UL or ICC-ES approved methods, materials and installation, as required to maintain the assembly's rating and smoke resistance. All materials and installation details shall conform to the UL listings for "through penetration fire stop systems" where applicable. The Contractor shall submit shop drawing details, furnished by the manufacturer of the fire stop material, that show complete conformance to the UL Listing, and such drawings shall be available to the Fire or Building Inspectors on-site. The drawings shall be specific for each penetration type.
 - Smoke separation walls shall form an effective membrane, continuous from outside wall to outside wall, from fire barrier to fire barrier, from smoke barrier to smoke barrier and from floor slab to floor or roof slab above, thereby providing continuity through all concealed spaces. The Contractor shall completely seal all openings where the smoke barrier abuts other smoke barriers, fire barriers, exterior walls, the floor below and the floor or ceiling above.
 - All backing support for wall mounted items shall be 16 gauge min. metal strapping, UNO.
 - Brace interior non-bearing walls to structure per Architectural Drawings.
 - Slotted slip track shall be used at all top of full-height wall conditions subject to loading by deflection of the structure above.
 - All light gauge metal framing shall be installed in strict accordance with ASTM 754 "Standard Specifications for Installation of Steel Framing Members".



13 INTERIOR WALL TYPE

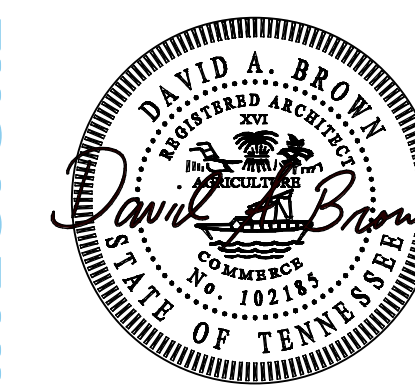
S 02 WALL TYPE

1 1/2" = 1'-0"



14 INTERIOR WALL TYPE

S 01 WALL TYPE



REVISIONS:

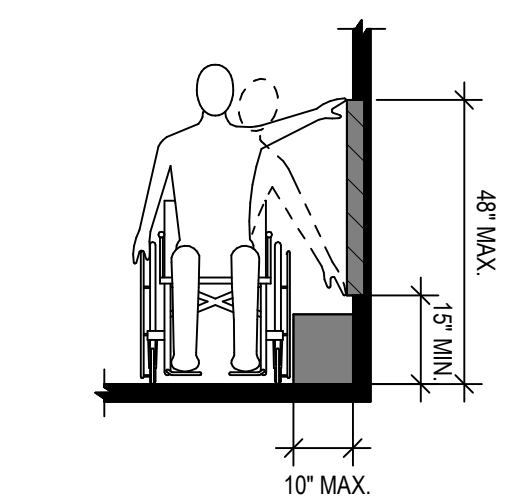
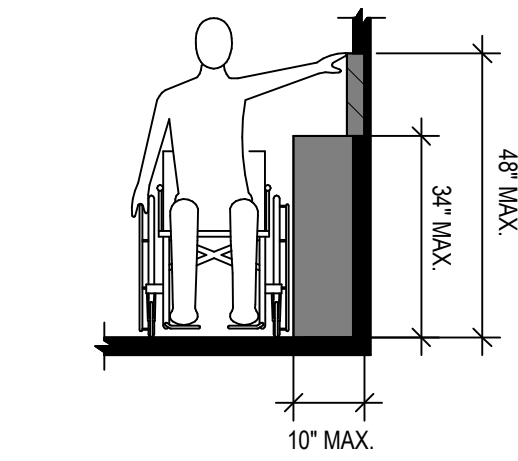
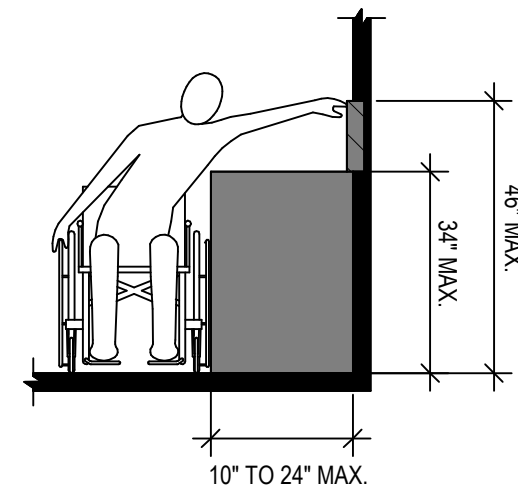
DELTA	DESCRIPTION	DATE

DATE OF ISSUE: 10.20.2021

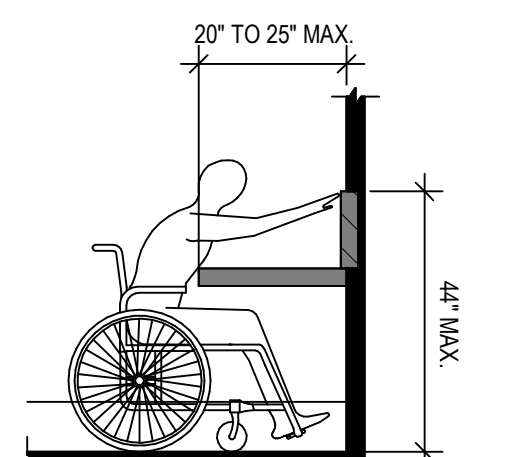
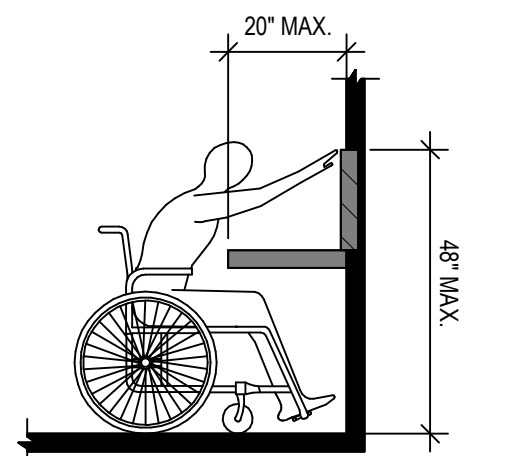
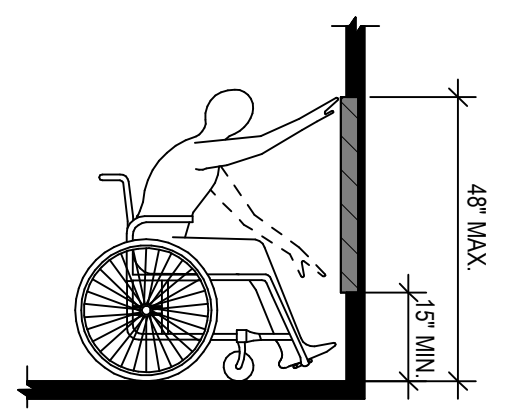
MA PROJECT NO: 0214-21

PROJECT PHASE: CD

DRAWN BY: TEAM



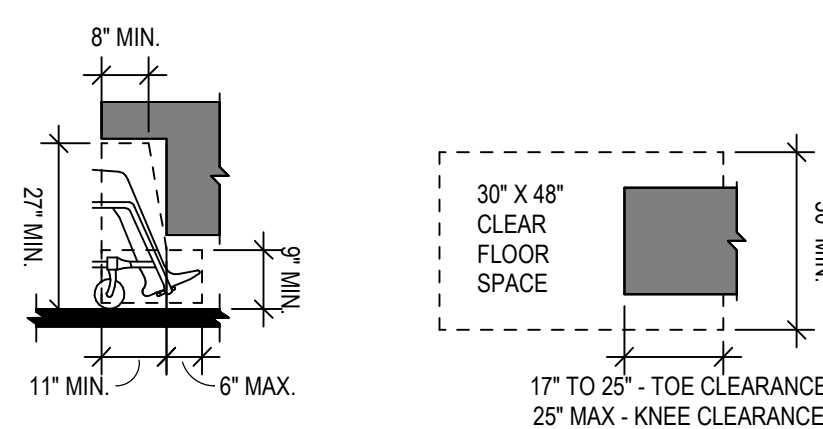
SIDE REACH



FORWARD REACH

* FOR CHILDREN'S REACHES SEE CHART THIS SHEET.

ACCESSIBLE REACH RANGES

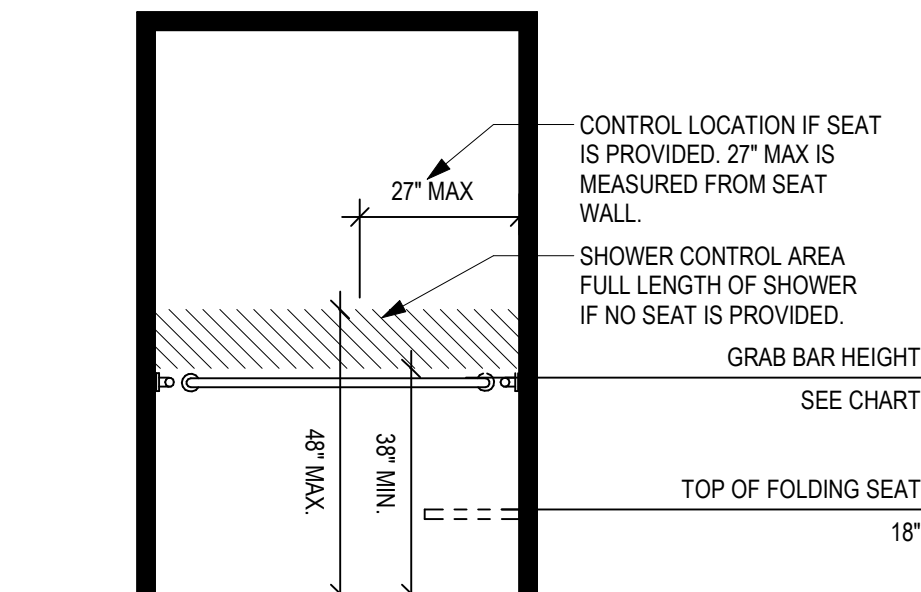


ELEVATION

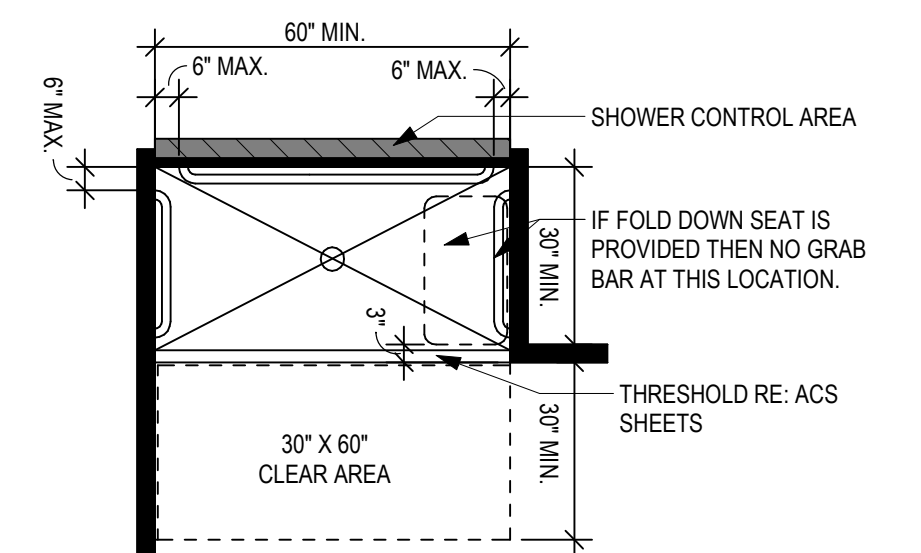
PLAN

ACCESSIBLE TOE & KNEE CLEARANCE

- GENERAL SHOWER NOTES:**
1. A FIXED SHOWER HEAD LOCATED AT 48" MAX. ABOVE SHOWER FINISH FLOOR SHALL BE PERMITTED INSTEAD OF A HAND-HELD SPRAY UNIT.
 2. FLOOR FOR SHOWER SHALL NOT SLOPE IN EXCESS OF 1:48 IN ANY DIRECTION.
 3. FOLD DOWN SEATS ARE NOT REQUIRED IN ROLL-IN TYPE SHOWER COMPARTMENTS.
 4. "L" SHAPED SEAT IS NOT REQUIRED AT TRANSFER TYPE STALL.
 5. PROVIDE ONE TOWEL HOOK @ 48" ABOVE F.F. ADJACENT TO ACCESSIBLE SHOWER.



ELEVATION

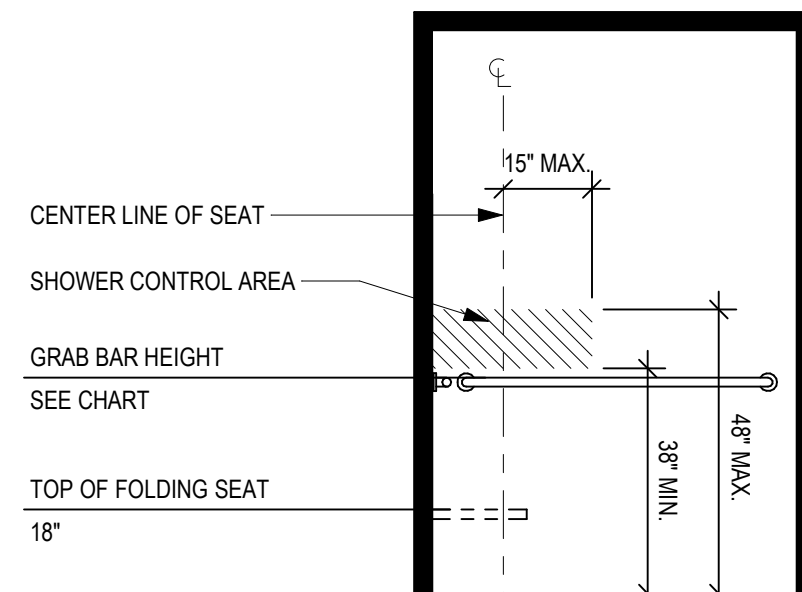


PLAN

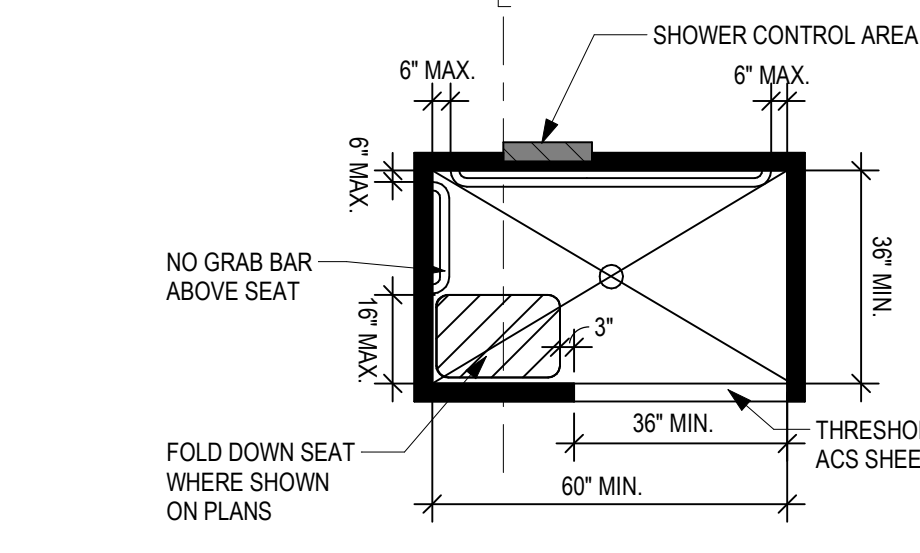
STANDARD ROLL-IN TYPE SHOWER COMPARTMENT

ACCESSIBLE SHOWER TYPES

FOLDING SEAT (RECTANGULAR)



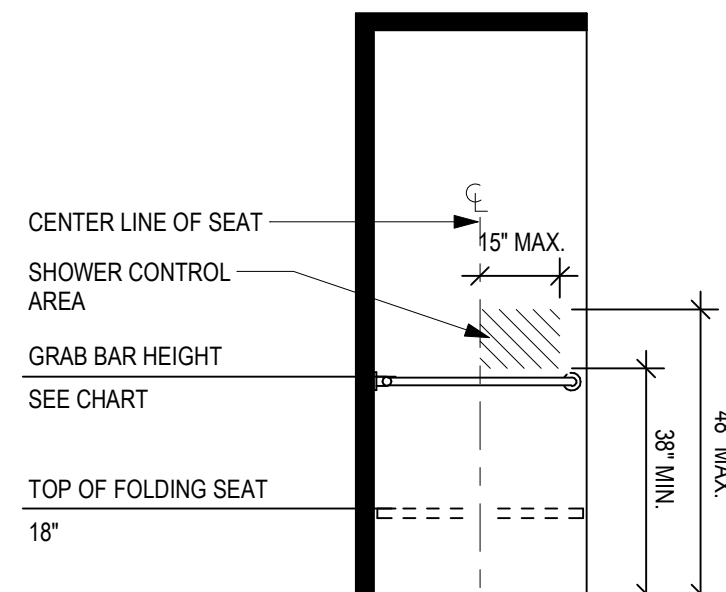
ELEVATION



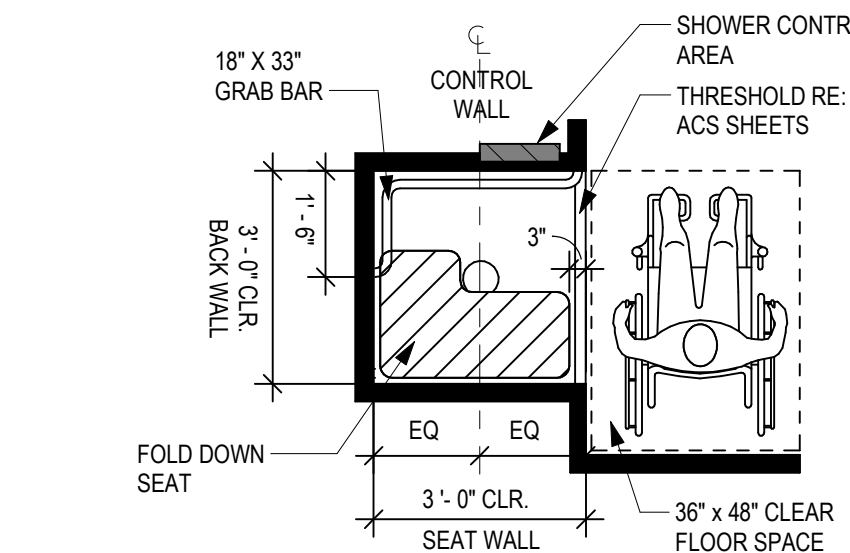
PLAN

ALTERNATE ROLL-IN TYPE SHOWER COMPARTMENT

FOLDING SEAT (L SHAPED)

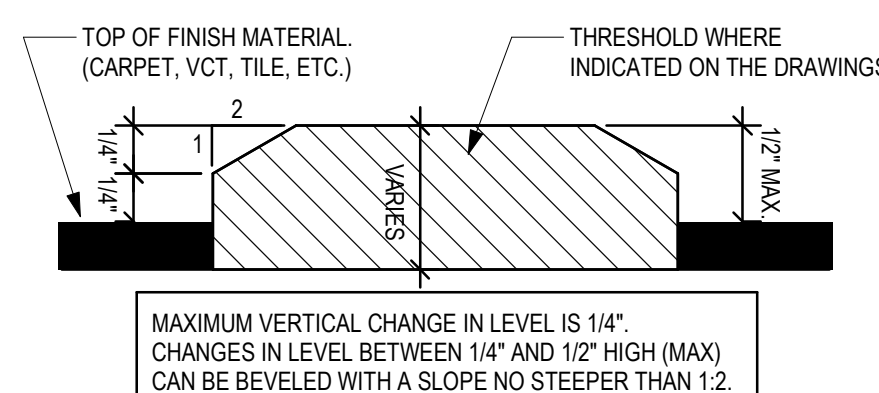


ELEVATION (CONTROL WALL)

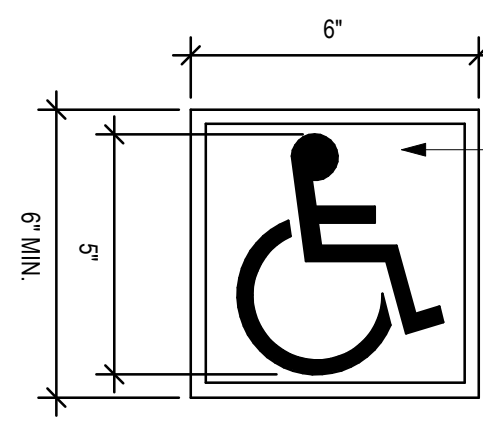


PLAN

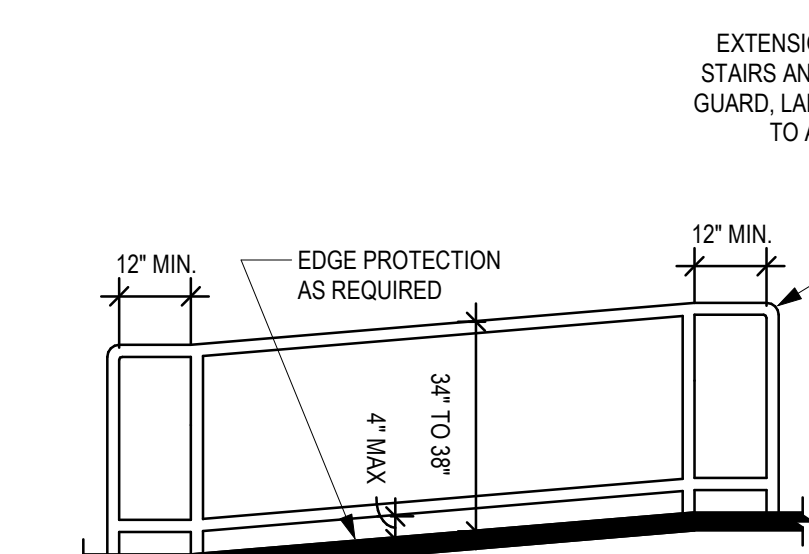
TRANSFER TYPE SHOWER COMPARTMENT



THRESHOLD



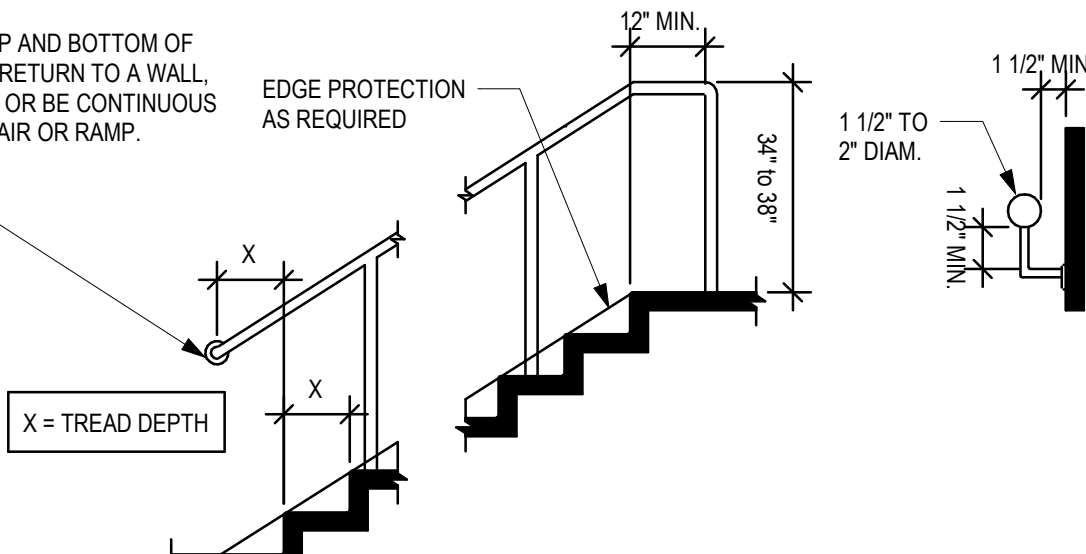
INTERNATIONAL SYMBOL OF ACCESSIBILITY



RAMP

- RAMP GENERAL NOTES:**
1. RUNNING SLOPE CANNOT BE STEEPER THAN 1:12
 2. AT EXISTING CONDITIONS:
 - A. STEEPER THAN 1:10 BUT NOT STEEPER THAN 1:8 - MAX RISE IS 3"
 - B. STEEPER THAN 1:12 BUT NOT STEEPER THAN 1:10 - MAX RISE IS 6"
 3. MAX RISE OF ANY RAMP IS 30"
 4. EDGE PROTECTION CAN BE CURB/ BARRIER (AS SHOWN ABOVE) OR EXTEND FLOOR /GROUND SURFACE 12" FROM EACH HANDRAIL.
 5. EDGE PROTECTION NOT REQUIRED ON RAMP LANDINGS SERVING AN ADJOINING RAMP RUN OR STAIRWAY

HANDRAILS AT STAIRS & RAMPS



STAIRS

- STAIR GENERAL NOTES:**
1. EXTENSIONS SHALL NOT BE REQUIRED FOR CONTINUOUS HANDRAILS AT THE INSIDE TURN OF SWITCHBACK OR DOGLEG STAIRS AND RAMPS.
 2. TREAD AND RISERS TO BE UNIFORM AND HAVE A RISE BETWEEN 4"-7" AND TREAD OF 11" DEEP MIN.

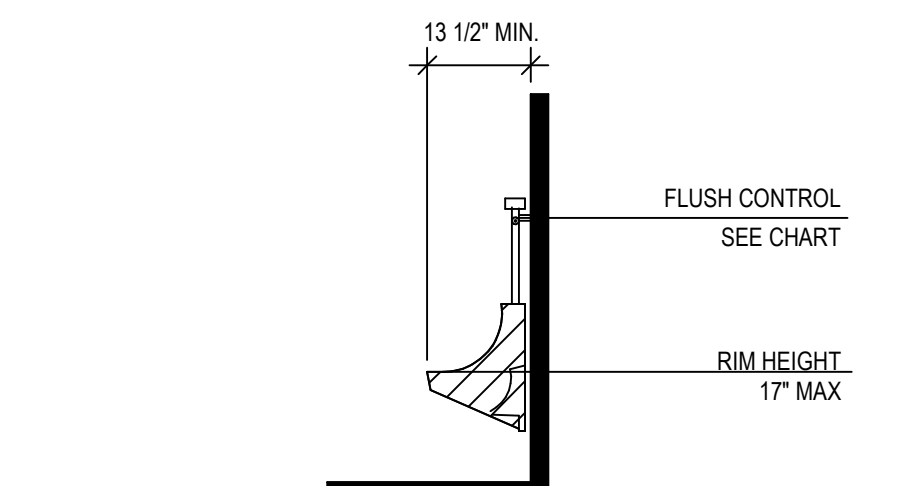
HANDRAIL

DESCRIPTION & LOCATION	ACCESSIBLE DIMENSIONS		
	CHILDREN (AGES 5 TO 12)	ADULT	STANDARD (NON ADA)
FORWARD AND SIDE REACH RANGES	18" TO 40"	15" TO 48"	-----
WATER CLOSET CENTERLINE TO WALL	15"	17"	PER PLAN
TOILET SEAT HEIGHT	15"	18"	16"
TOILET & SHOWER STALL GRAB BAR HEIGHTS	25"	34"	-----
TOP OF TOILET PAPER DISPENSER HEIGHT	2" BELOW GRAB BAR IF MTD BELOW. 12" TO BOTTOM IF MTD ABOVE	2" BELOW GRAB BAR IF MTD BELOW. 12" TO BOTTOM IF MTD ABOVE	18"
FLUSH CONTROL HEIGHT FOR WATER CLOSET	2" MIN. BELOW GRAB BAR	2" MIN. BELOW GRAB BAR	48"
POSITION FLUSH VALVE TO WIDE SIDE OF STALL OR ROOM	36" MAX ACCESSIBLE AND 42" STANDING	36" MAX ACCESSIBLE AND 42" STANDING	42"
FLUSH CONTROL HEIGHT FOR URINAL	38"	44"	46"
POSITION FLUSH VALVE TO WIDE SIDE OF STALL OR ROOM	38"	44"	46"
FEMININE NAPKIN DISPENSER CONTROL LOCATION	42"	46" OR 48" MAX. SEE ACCESSIBLE REACH RANGES	46"
MIRRORS MOUNTED ABOVE COUNTER TOPS OR SINKS	76" AFF TO TOP EDGE	76" AFF TO TOP EDGE	76" AFF TO TOP EDGE
HEIGHTS ARE TO REFLECTING SURFACE	40" MAX BOTTOM EDGE	40" MAX BOTTOM EDGE	40" BOTTOM EDGE
FREE STANDING MIRRORS HEIGHTS ARE TO REFLECTING SURFACE	76" AFF TO TOP EDGE	76" AFF TO TOP EDGE	76" AFF TO TOP EDGE
HEIGHTS ARE TO REFLECTING SURFACE	35" MAX TO BOTTOM EDGE	35" MAX TO BOTTOM EDGE	35" BOTTOM EDGE
LAVATORY AND SINK RIM HEIGHT	31" MAX	34" MAX	36"
PAPER TOWEL DISPENSER CONTROL HEIGHT	38"	46" OR 48" MAX. SEE ACCESSIBLE REACH RANGES	48"
SOAP DISPENSER CONTROL HEIGHT	38"	46" OR 48" MAX. SEE ACCESSIBLE REACH RANGES	48"
SOAP DISH	38"	48"	48"
FEMININE NAPKIN DISPOSAL MTD. ON "BACK" HEIGHT TO TOP OF DISPOSAL UNIT	2" MIN. BELOW GRAB BAR	2" MIN. BELOW GRAB BAR	32"
TOWEL BAR	25"	34"	48"
LIGHT SWITCHES, THERMOSTATS, WALL MOUNTED COMMUNICATION AND FIRE ALARM PULL DEVICES. HEIGHT TO CENTER OF CONTROL.	38"	46" OR 48" MAX. SEE ACCESSIBLE REACH RANGES	48"
ELECTRICAL OUTLETS, TELEPHONE OUTLETS, & DATA RECEPTACLES. HEIGHT TO CENTER OF OUTLET OR RECEPTACLE.	18"	18"	18"
TOP OF STAIR AND RAMP HANDRAILS	-----	36"	36"
HEIGHT IS ABOVE STAIR NOSING OR RAMP SURFACE	-----	-----	60"
CENTER OF DEDICATION PLAQUE	-----	-----	42"
FIRE EXTINGUISHER CABINET. HEIGHT TO DOOR HANDLE	-----	42"	42"
DOOR HARDWARE	DOOR LEVER 39"	41"	41"
CENTER LINE	DOOR PULL 39"	41"	41"
	PANIC BAR 39"	41"	41"
THE CENTER LINE OF DOOR HARDWARE MAY VARY BETWEEN WOOD DOOR WITH SIDE LIGHT AND ALUMINUM STORE FRONT DOORS. COORDINATE WITH PLANS AND HARDWARE MANUFACTURER			
TOP OF TRAY SLIDES	28" MIN.	34" MAX	36"
TRAY RETURN COUNTER	30"	34" MAX	36"
HEIGHT OF WORK SURFACES	-----	34" MAX	30"
HEIGHT OF TABLES AND COUNTERS	-----	30" MAX	30"

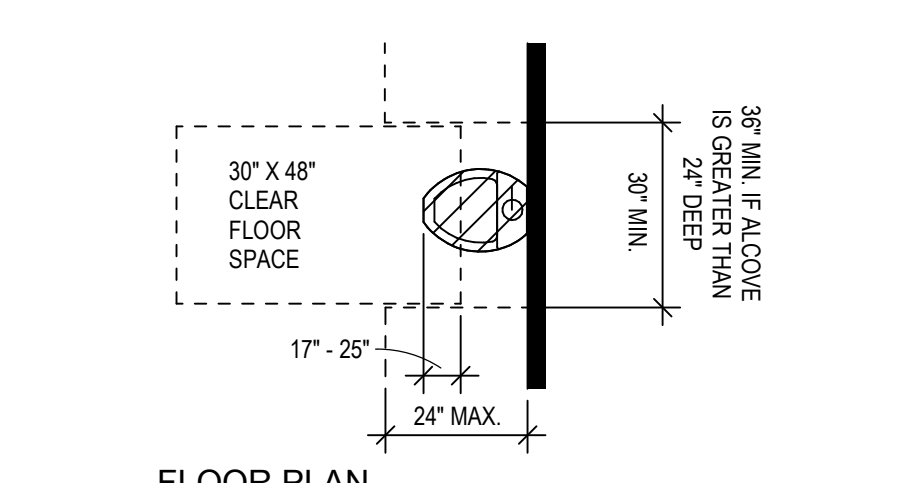
1. ON PLUMBING FIXTURES THERE IS A RANGE OF +/- 1".
2. CHILDREN AGES 5 THRU 12 REPRESENTS PRIMARY USER GROUP AS ELEMENTARY STUDENTS. MIDDLE SCHOOL IS CONSIDERED ADULT.
3. COORDINATE MOUNTING HEIGHTS WITH ACCESSIBLE REACH RANGES.

ACCESSIBILITY GENERAL NOTES

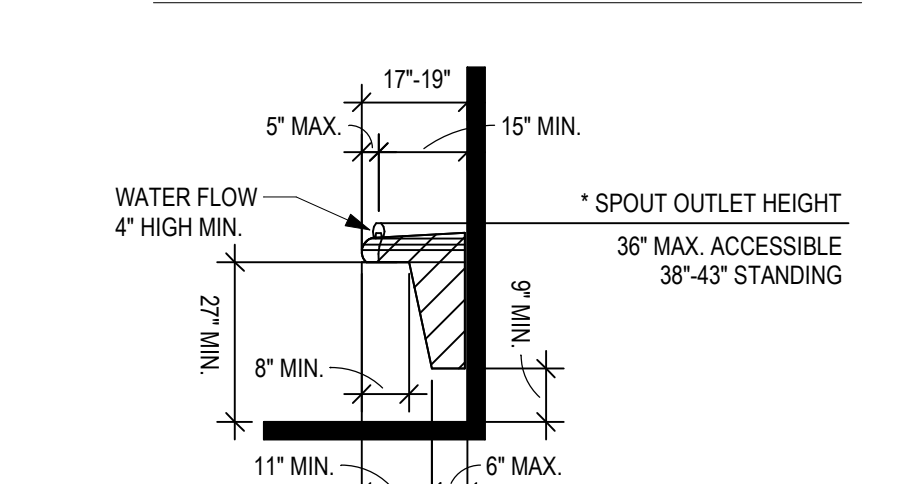
1. Accessible entrances to the building shall be identified by the international symbol of accessibility.
2. Exits that are located adjacent to accessible areas & within 6' of adjacent ground level shall be accessible.
3. Accessible ramps over 1:20 (5%) slope as required by ICC/ANSI A117.1 shall have handrails and no slopes that exceed 1:12 (8.3%), UNO.
4. The surface of all ramps, floors, stairs and ground surfaces shall be of slip resistant materials/textures, and not exceed 1:50 (2%) cross-slope.
5. An accessible route of travel (3 ft. wide min.) must be provided to all portions of the building and between the building and the public way.
6. Thresholds must be 1/2" in height or less, and beveled over 1/4" height.
7. All accessible parking spaces shall have a slope not exceeding 1:50 (2%).
8. All accessible parking spaces shall be outlined on all four sides, have a contrasting color and the international wheelchair symbol on the ground within the space.
9. All accessible parking spaces shall have a sign (min. 5 ft. above finish grade in front of the space) which includes the international symbol of accessibility and applicable municipal language.
10. Signs designating permanent rooms and spaces shall meet accessibility requirements.
11. All alarms shall meet accessibility requirements.
12. Accessible route shall be without steps or changes in level greater than 1/2" without an approved ramp.
13. Accessible routes shall serve as exit access or connect to areas of rescue assistance.
14. No item shall protrude more than 4" from the surface of a wall along an accessible way, above 27" and below 80" AFF.



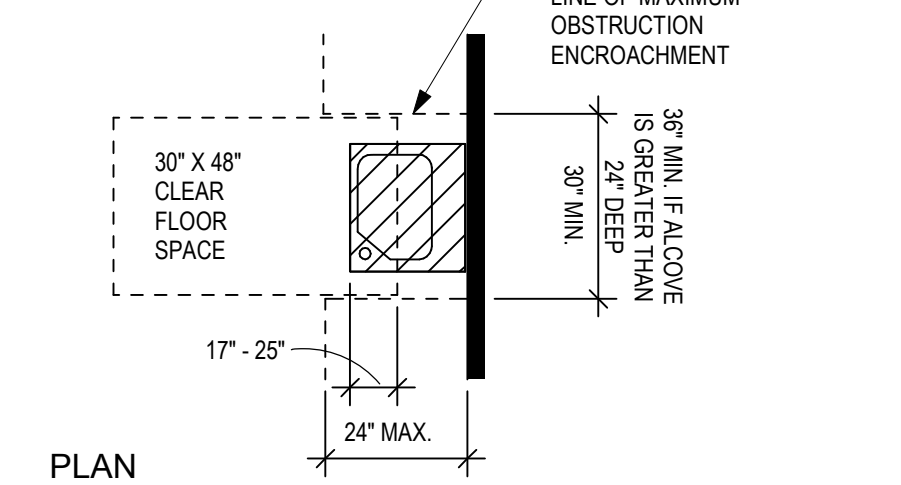
SIDE ELEVATION



ACCESSIBLE URINAL



SIDE ELEVATION



PLAN

- GENERAL DRINKING FOUNTAIN NOTES:**
1. A PARALLEL APPROACH SHALL BE PERMITTED AT UNITS FOR CHILDREN'S USE WHERE THE SPOUT IS 30" MAX A.F.F. AND IS 3 1/2" MAX FROM THE FRONT EDGE OF THE UNIT.
 2. WHERE MORE THAN 2 DRINKING FOUNTAINS ARE PROVIDED 50 MUST COMPLY WITH 602.1-602.6 (ACCESSIBLE) AND 50% COMPLY WITH 602.7 (STANDING) HEIGHTS. 211.3

ACCESSIBLE DRINKING FOUNTAIN

ASHLAND CITY C-STORE
 DHAVAL PATEL
 0 Old Hydes Ferry Pike, Ashland City, TN 37015
 CLIENT CONTACT:
 DHAVAL PATEL
 (615) 598-5887 | dhawalom@gmail.com

MERIDIAN ARCHITECTURE
 nashville, tennessee
 e: office@meridiantn.com
 t: 615.390.2236
 www.meridiantn.com

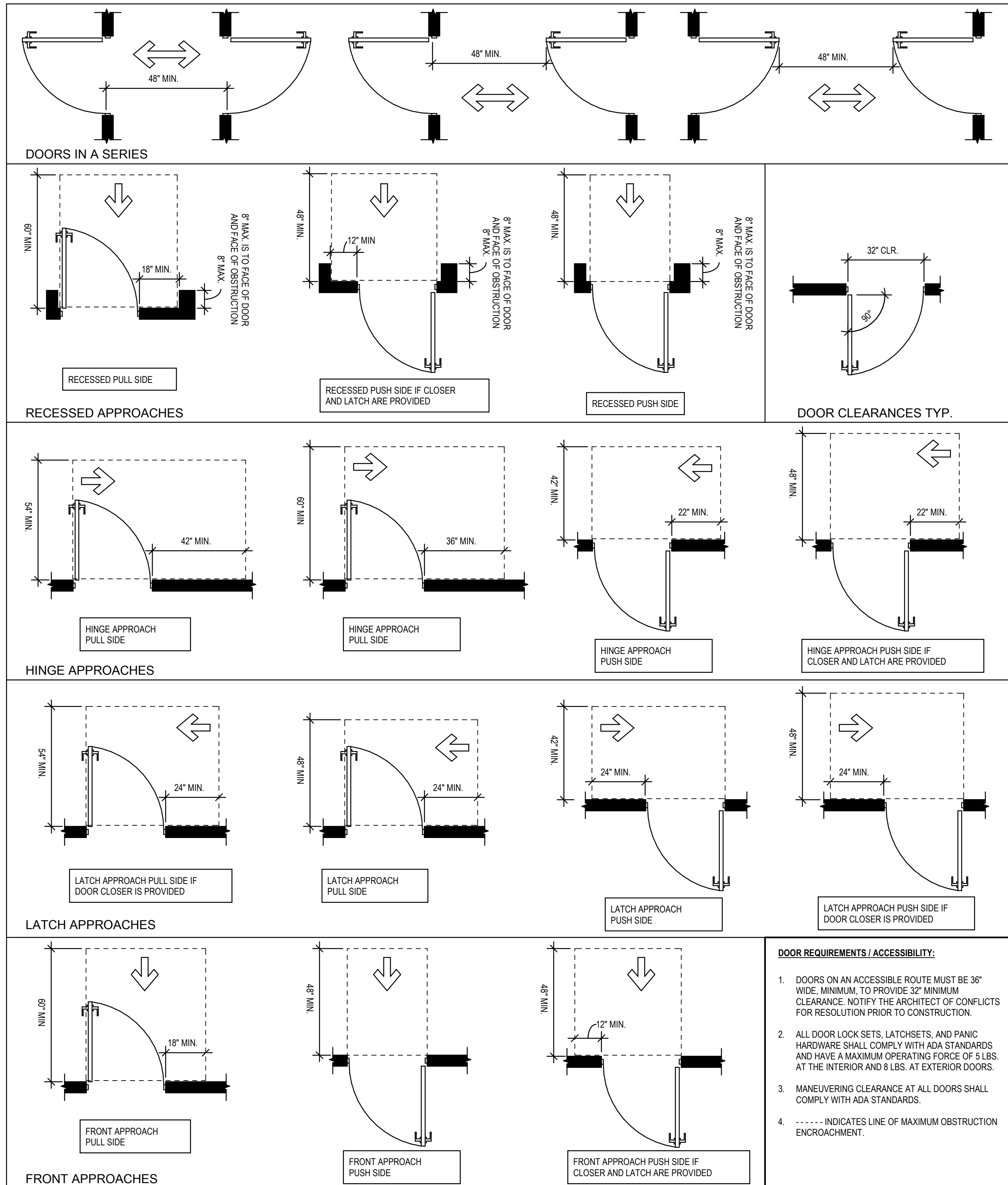
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REVISIONS:

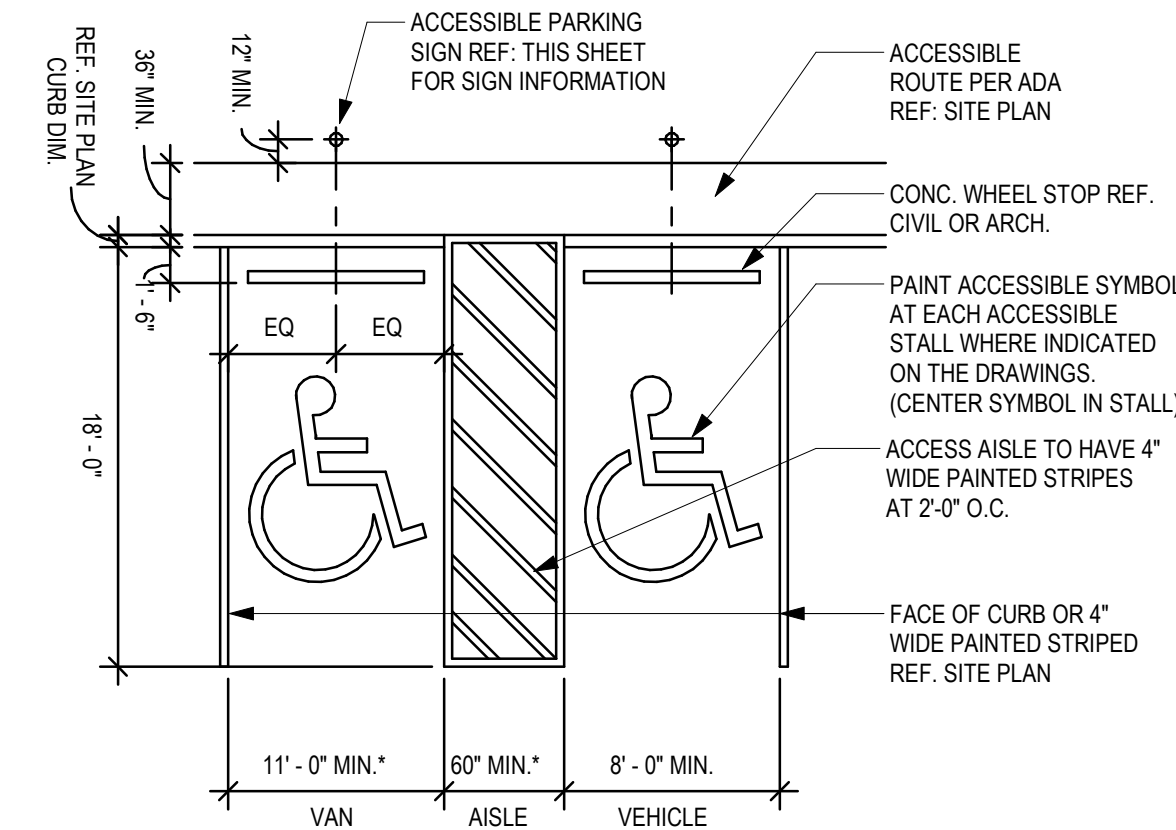
DELTA	DESCRIPTION	DATE

DATE OF ISSUE: 10.20.2021
MA PROJECT NO: 0214-21
PROJECT PHASE: CD
DRAWN BY: TEAM

ADA DETAILS
G-004
 ITEM # 4



ACCESSIBLE DOOR DIAGRAMS

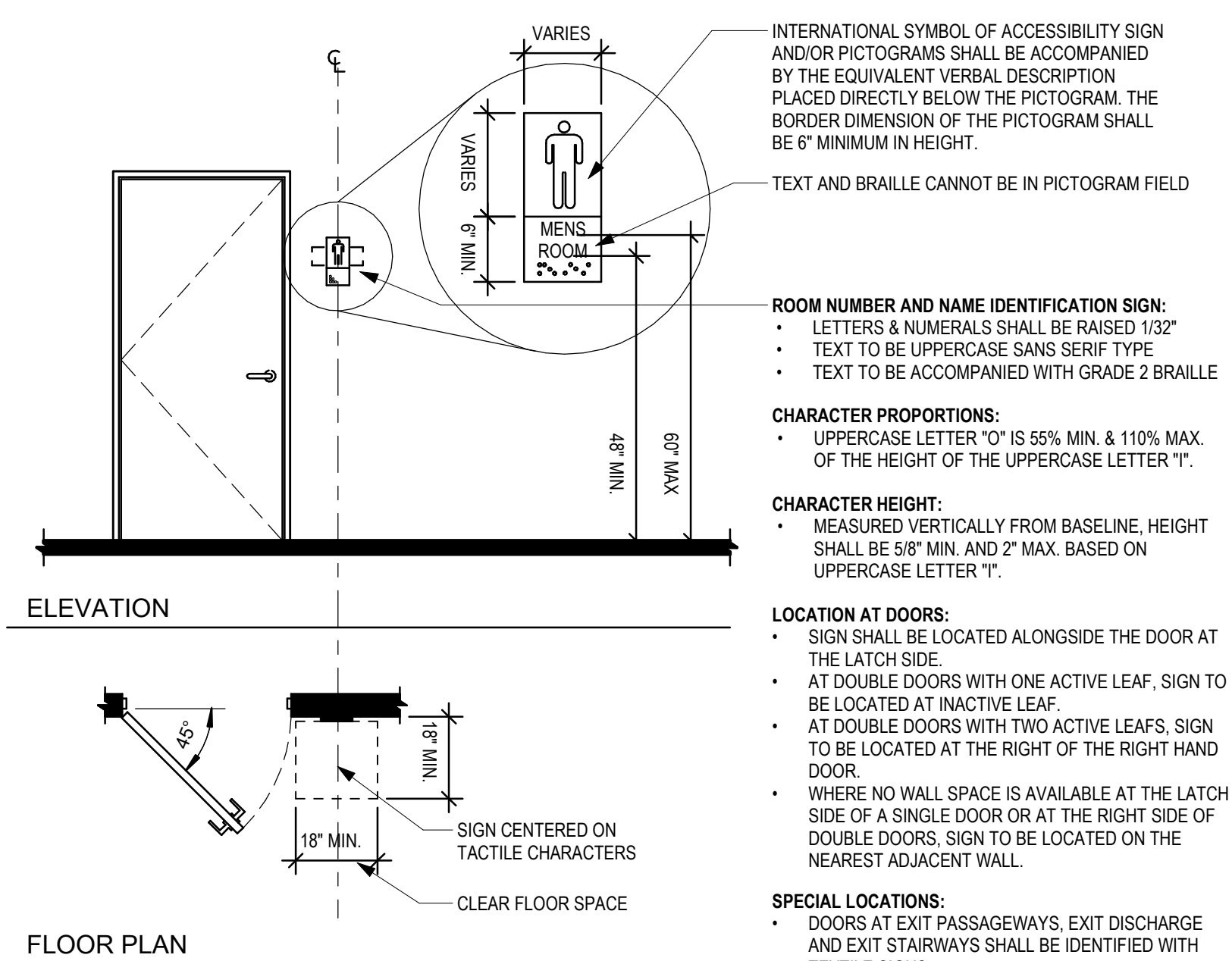
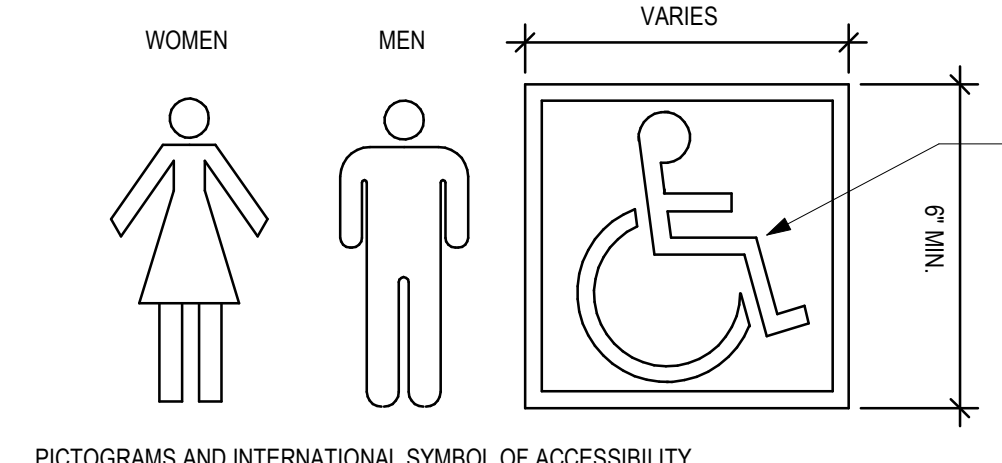


REQUIRED PARKING SPACES

# SPACES PROVIDED IN PARKING FACILITY	MIN. # REQUIRED HC PARKING SPACES
001 TO 025	1
026 TO 050	2
051 TO 075	3
076 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% OF TOTAL
OVER 1001	20 + 1 FOR EACH 100 OVER 1000

* - PROVIDE ONE VAN PARKING SPACE FOR EVERY 6 REQUIRED HC PARKING SPACES.

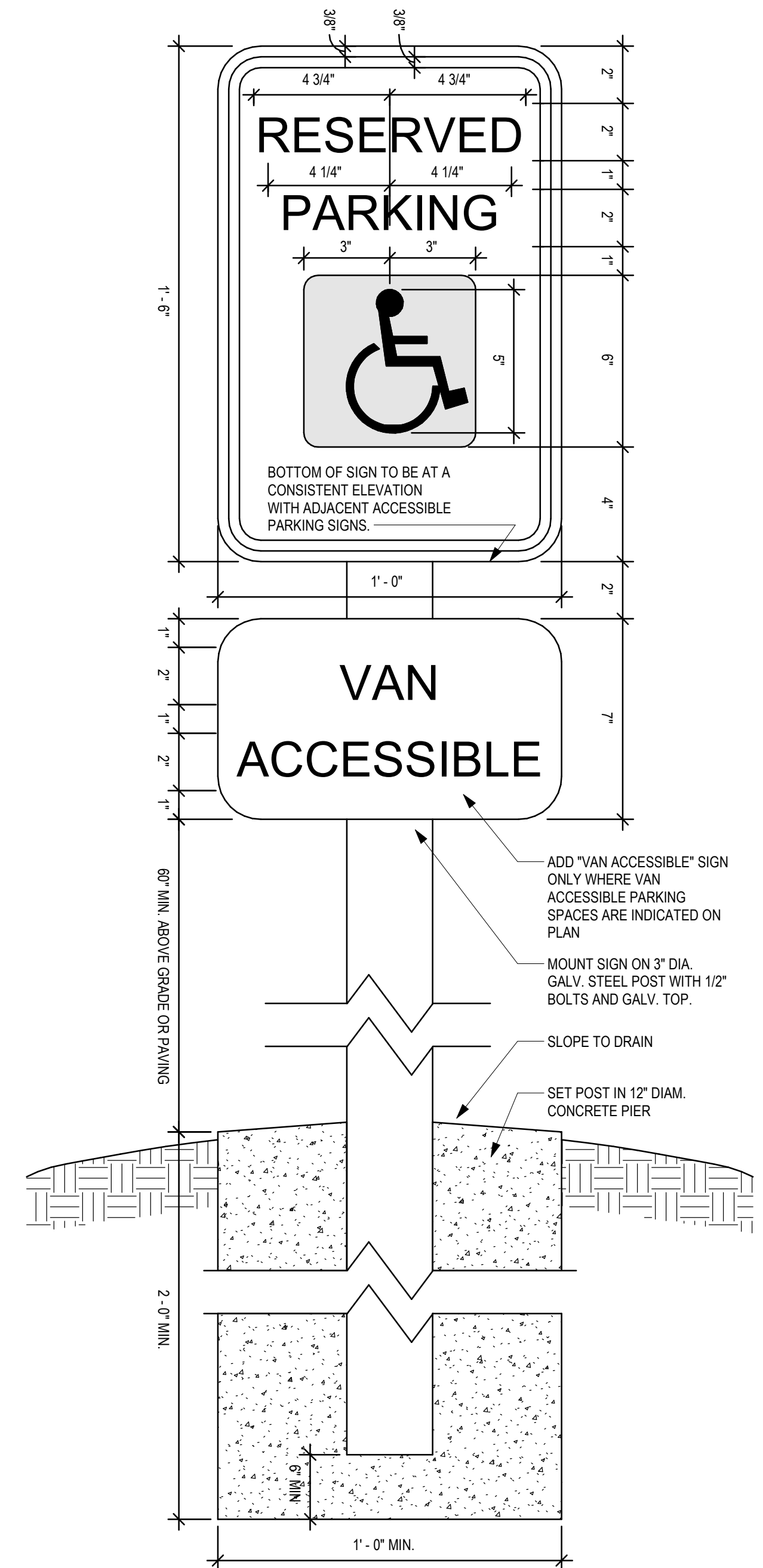
- GENERAL PARKING NOTES:**
- REFER TO LOCAL CODES FOR ADJUSTMENTS TO THESE STANDARDS.
 - ACCESS AISLES SHALL NOT OVERLAP THE VEHICULAR WAY AND CAN BE PLACED ON EITHER SIDE OF THE PARKING SPACE EXCEPT FOR ANGLED VAN PARKING, WHICH SHALL HAVE ACCESS AISLES LOCATED ON THE PASSENGER SIDE OF THE PARKING SPACES.
 - IT IS RECOMMENDED TO HAVE THE VAN ACCESS AISLE ON THE PASSENGER SIDE OF THE VAN PARKING SPACE.
 - ACCESSIBLE ROUTE REQUIRED FOR VAN PARKING SPACE SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 98".



TYPICAL SIGNAGE

ACCESSIBILITY GENERAL NOTES

- Accessible entrances to the building shall be identified by the international symbol of accessibility.
- Exits that are located adjacent to accessible areas & within 6' of adjacent ground level shall be accessible.
- Accessible ramps over 1:20 (5%) slope as required by ICC/ANSI A117.1 shall have handrails and no slopes that exceed 1:12 (8.3%), UNO.
- The surface of all ramps, floors, stairs and ground surfaces shall be of slip resistant materials/textures, and not exceed 1:50 (2%) cross-slope.
- An accessible route of travel (3 ft. wide min.) must be provided to all portions of the building and between the building and the public way.
- Thresholds must be 1/2" in height or less, and be beveled over 1/4" height.
- All accessible parking spaces shall have a slope not exceeding 1:50 (2%).
- All accessible parking spaces shall be outlined on all four sides, have a contrasting color and the international wheelchair symbol on the ground within the space.
- All accessible parking spaces shall have a sign (min. 5 ft. above finish grade in front of the space) which includes the international symbol of accessibility and applicable municipal language.
- Signs designating permanent rooms and spaces shall meet accessibility requirements.
- All alarms shall meet accessibility requirements.
- Accessible route shall be without steps or changes in level greater than 1/2" without an approved ramp.
- Accessible routes shall serve as exit access or connect to areas of rescue assistance.
- No item shall protrude more than 4" from the surface of a wall along an accessible way, above 27" and below 80" AFF.



ACCESSIBLE PARKING SIGN

DHAVAL PATEL
0 Old Hydes Ferry Pike, Ashland City, TN 37015

CLIENT CONTACT:
DHAVAL PATEL
(615)-588-5887 | dhavalom@gmail.com



10.20.2021

nashville, tennessee
e: office@meridiantn.com
t: 615.390.2236
www.meridiantn.com

REVISIONS:

DELTA	DESCRIPTION	DATE

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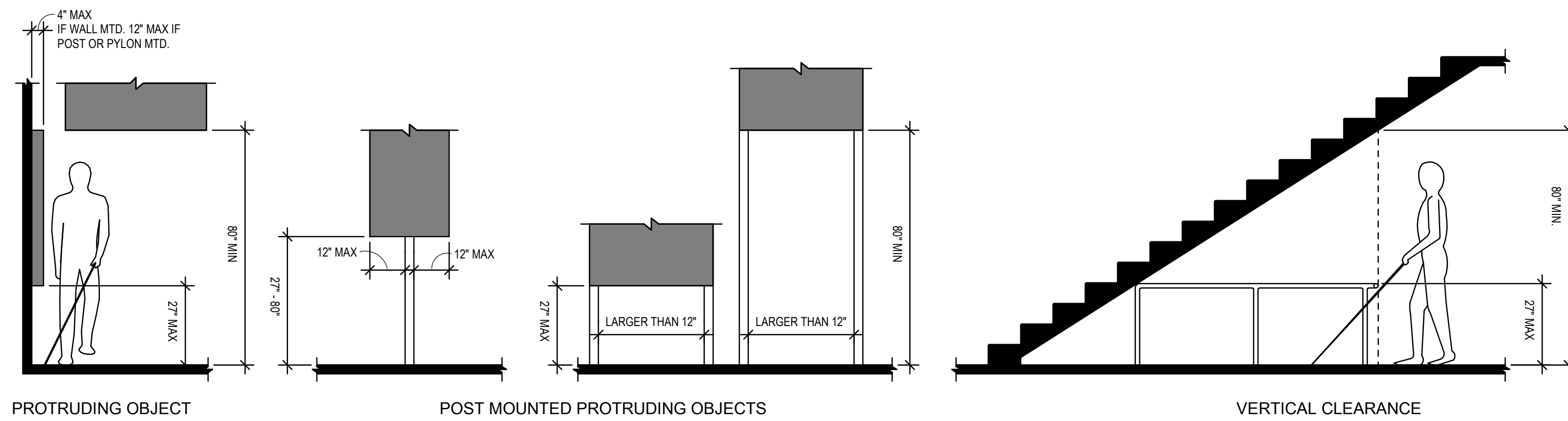
MA PROJECT NO: 0214-21

PROJECT PHASE: CD

DRAWN BY: TEAM

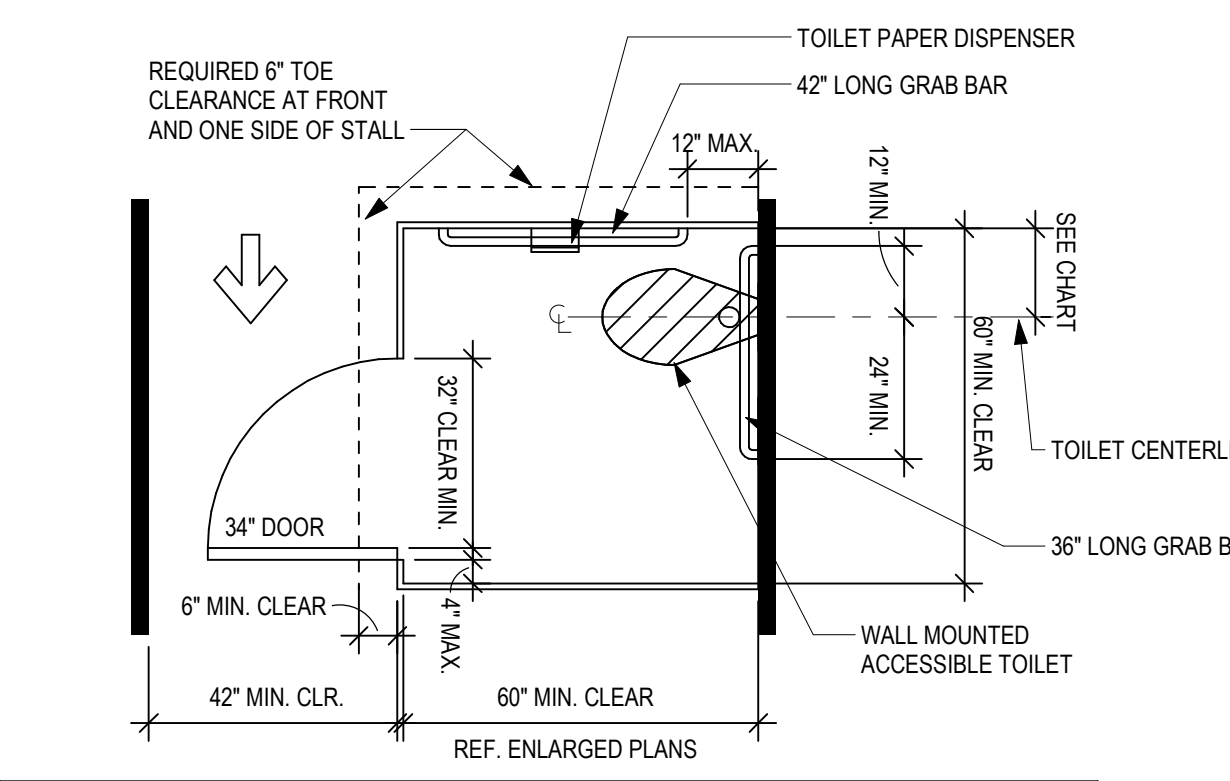
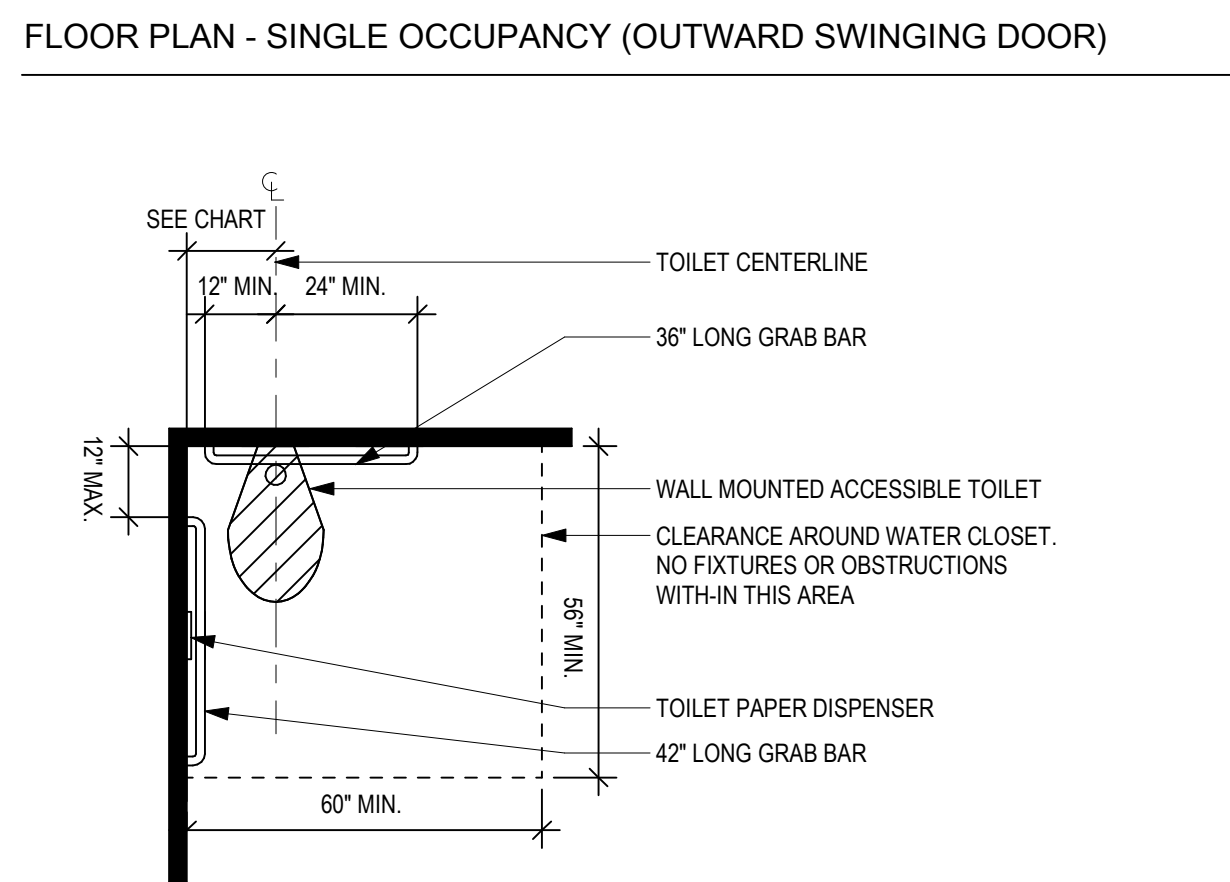
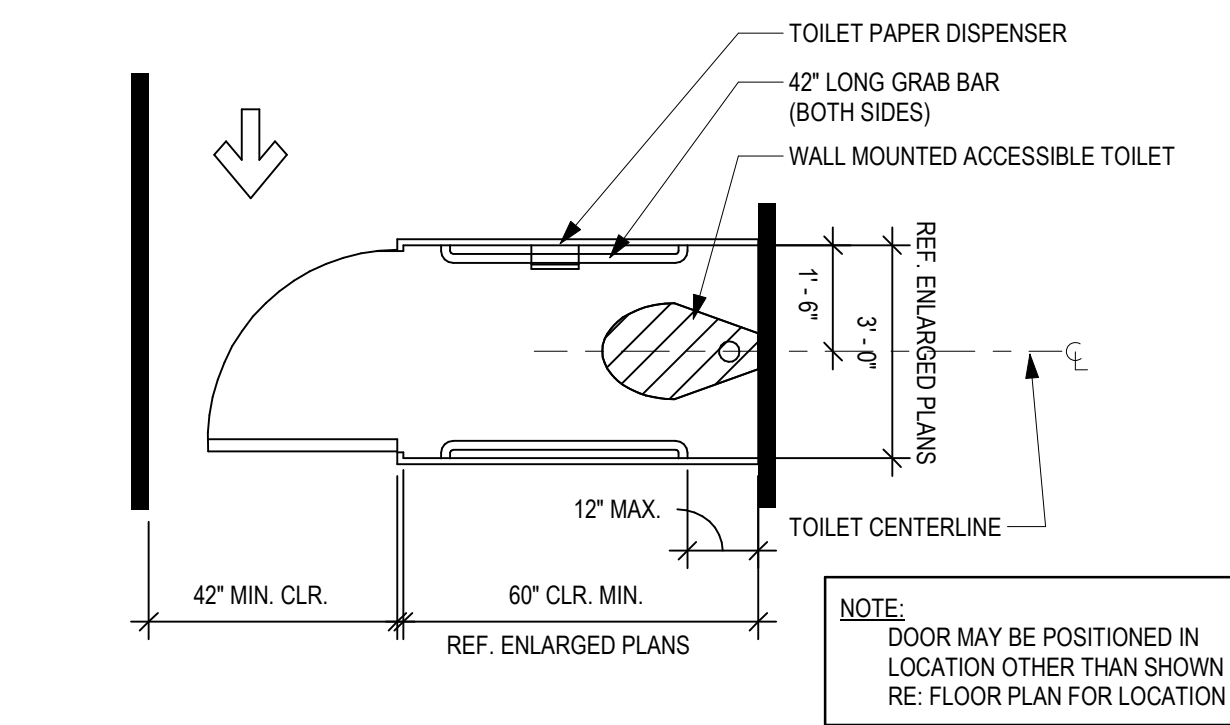
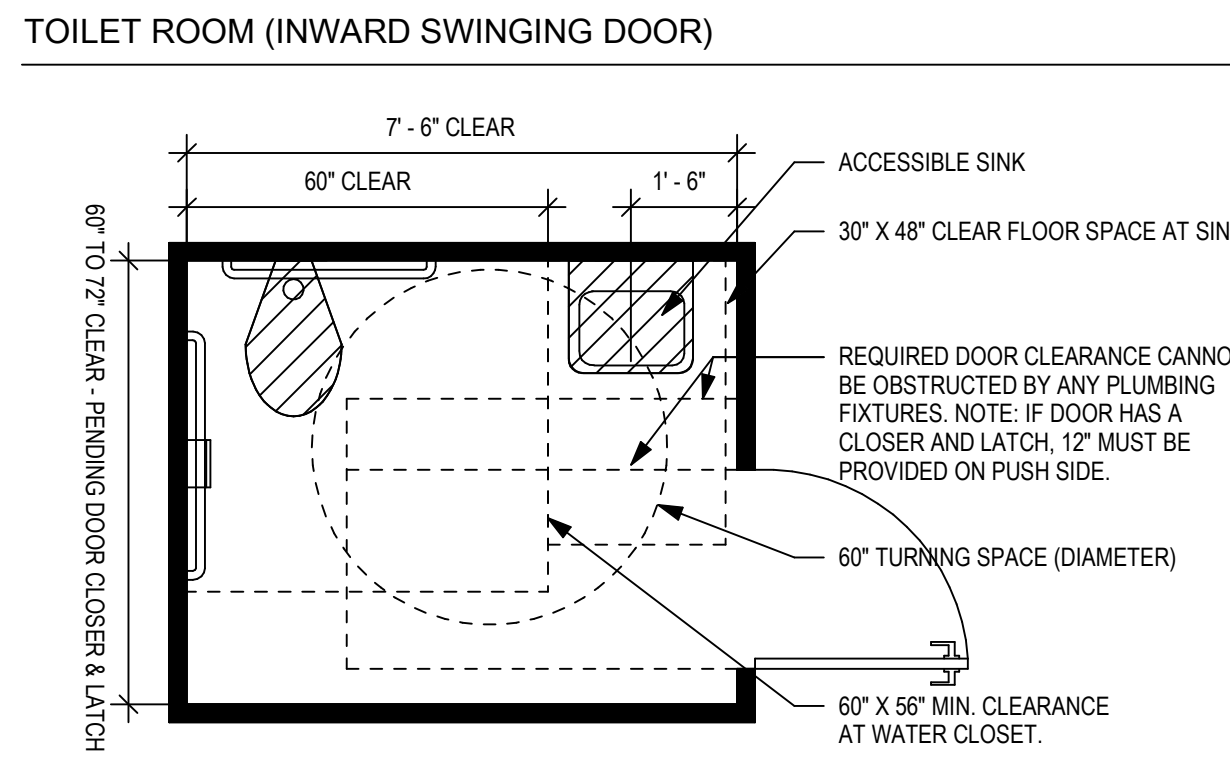
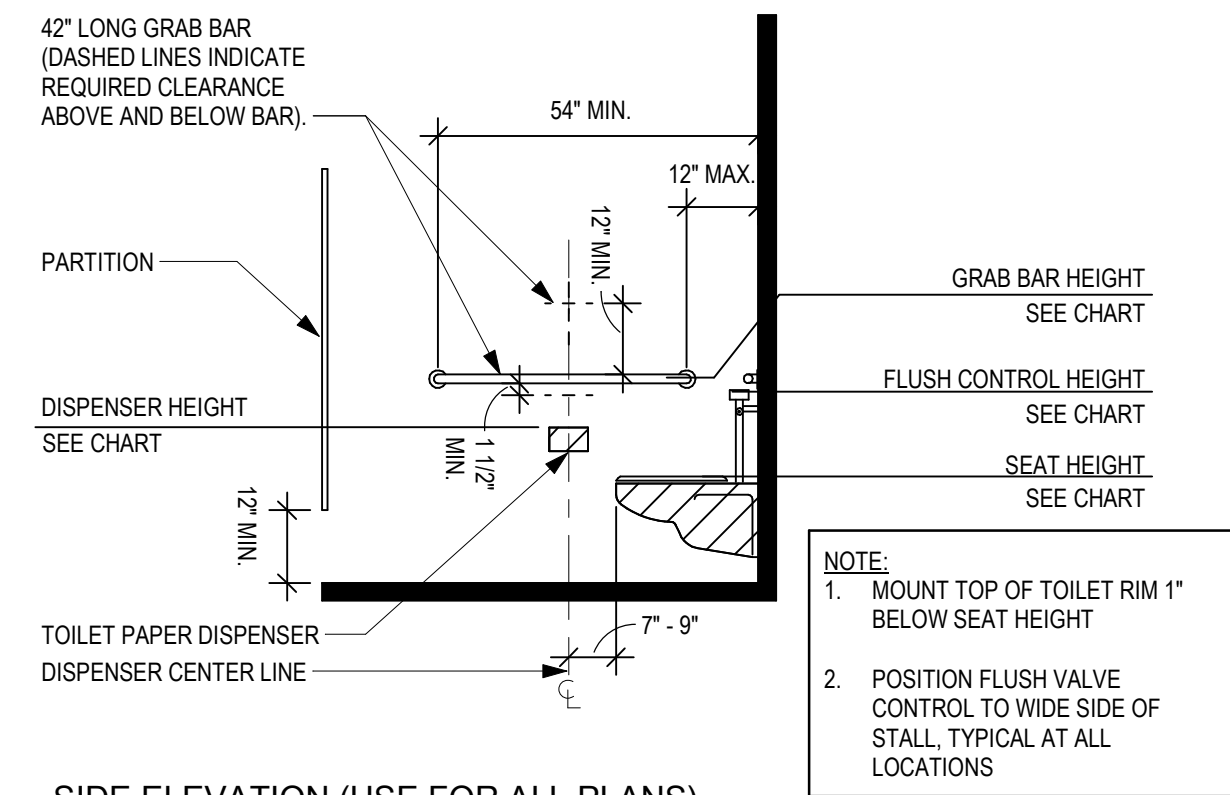
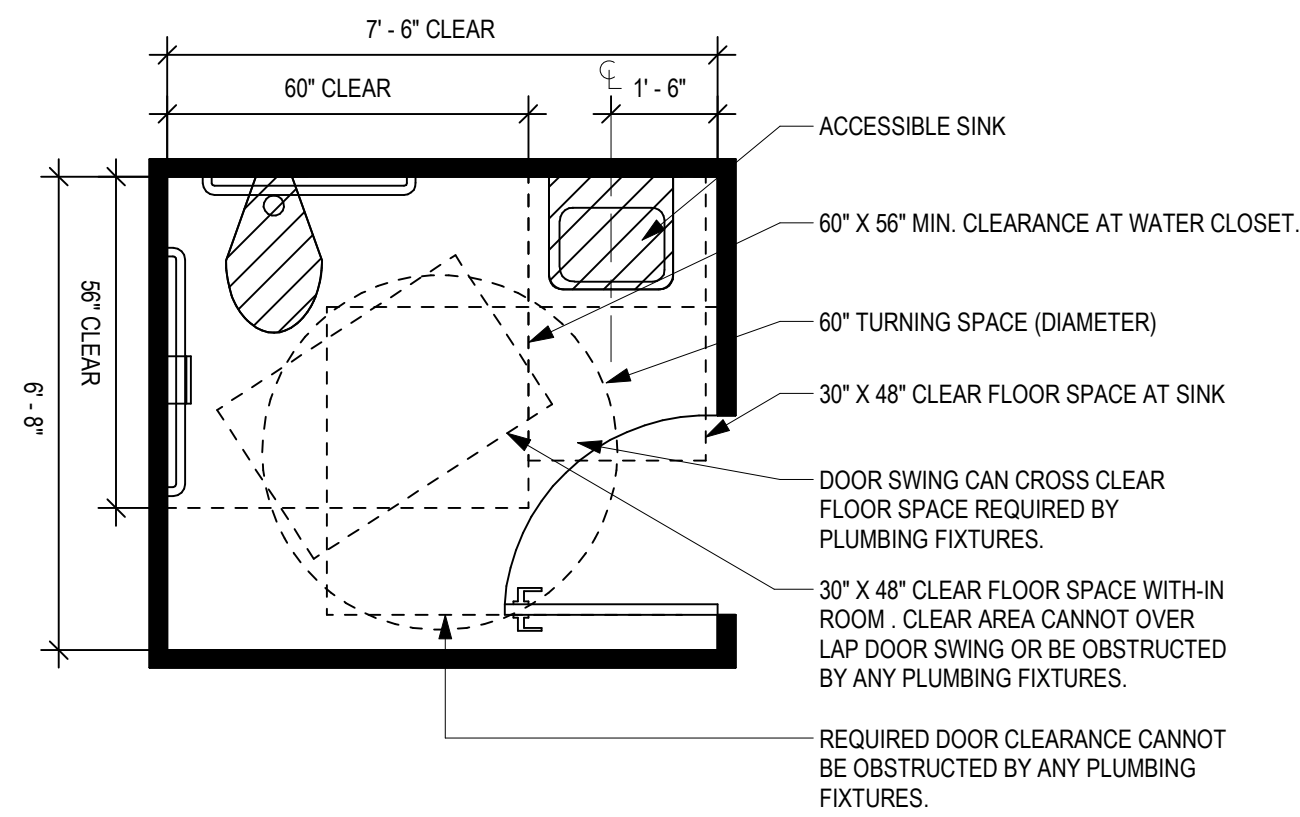
ADA DETAILS

G-005



NOTE:
 IF BOTTOM OF PROTRUDING OBJECT IS GREATER THAN 27" AFF THEN OBJECT MAY NOT PROTRUDE MORE THAN 4" MAXIMUM. IF MOUNTED ON POST OR PYLON, OBJECTS MAY PROTRUDE 12" MAXIMUM FROM 27" - 80" ABOVE GROUND OR FINISHED FLOOR. NO PROTRUDING OBJECT SHALL REDUCE THE CLEAR WIDTH REQUIRED FOR ACCESSIBLE ROUTES. DOOR CLOSERS AND DOOR STOPS SHALL BE PERMITTED TO BE 78" MINIMUM ABOVE THE FINISH FLOOR.

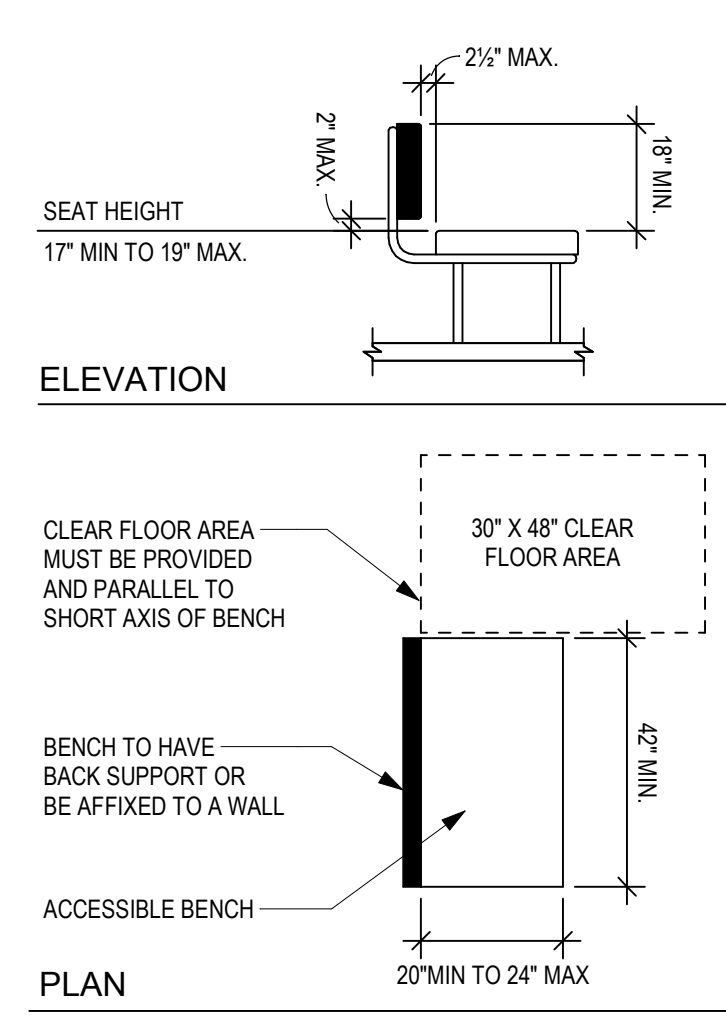
PROTRUDING OBJECTS



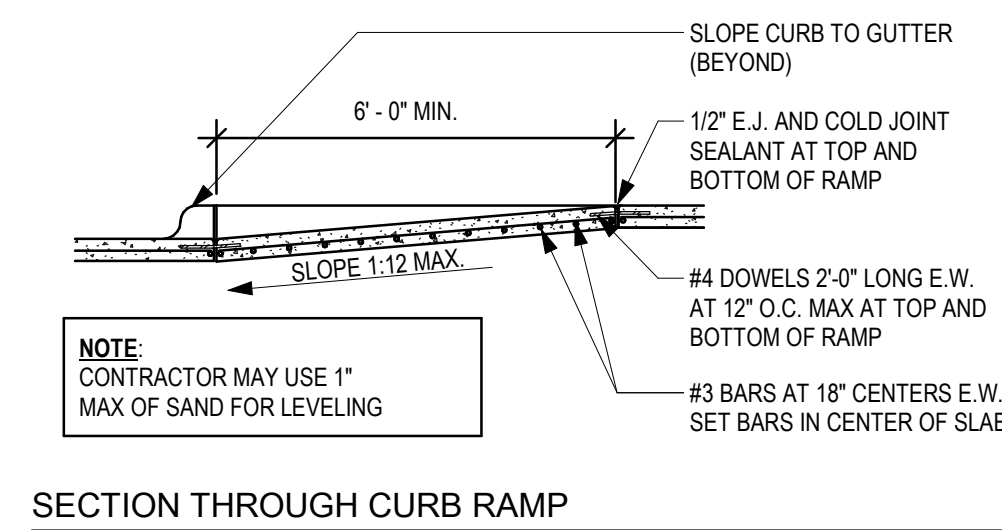
GENERAL WATER CLOSET NOTES:

- REQUIRED CLEAR FLOOR SPACES, CLEARANCE AT FIXTURES, AND TURNING SPACE SHALL BE PERMITTED TO OVERLAP
- DOORS SHALL NOT SWING INTO THE CLEAR FLOOR SPACE OR CLEARANCE REQUIRED FOR ANY FIXTURE EXCEPT IN A TOILET ROOM FOR INDIVIDUAL USE WHERE THE 30"X48" CLEAR FLOOR SPACE IS PROVIDED BEYOND THE ARC OF THE DOOR SWING.
- DOORS SHALL BE PERMITTED TO SWING INTO THE REQUIRED TURNING SPACE.
- ALL DOORS MUST COMPLY WITH THEIR CLEAR FLOOR SPACE REQUIREMENTS.
- IF THE TOTAL NUMBER OF TOILET FIXTURES (INCLUDING URINALS) IN A RESTROOM IS EQUAL TO 6 OR MORE, THEN AN AMBULATORY STALL IS REQUIRED.
- DIMENSIONS SHOWN FROM WALL ARE ASSUMED TO BE CLEAR DIMENSIONS. CONTRACTOR TO ALLOW FOR FINISH MATERIAL.

ACCESSIBLE WATER CLOSETS

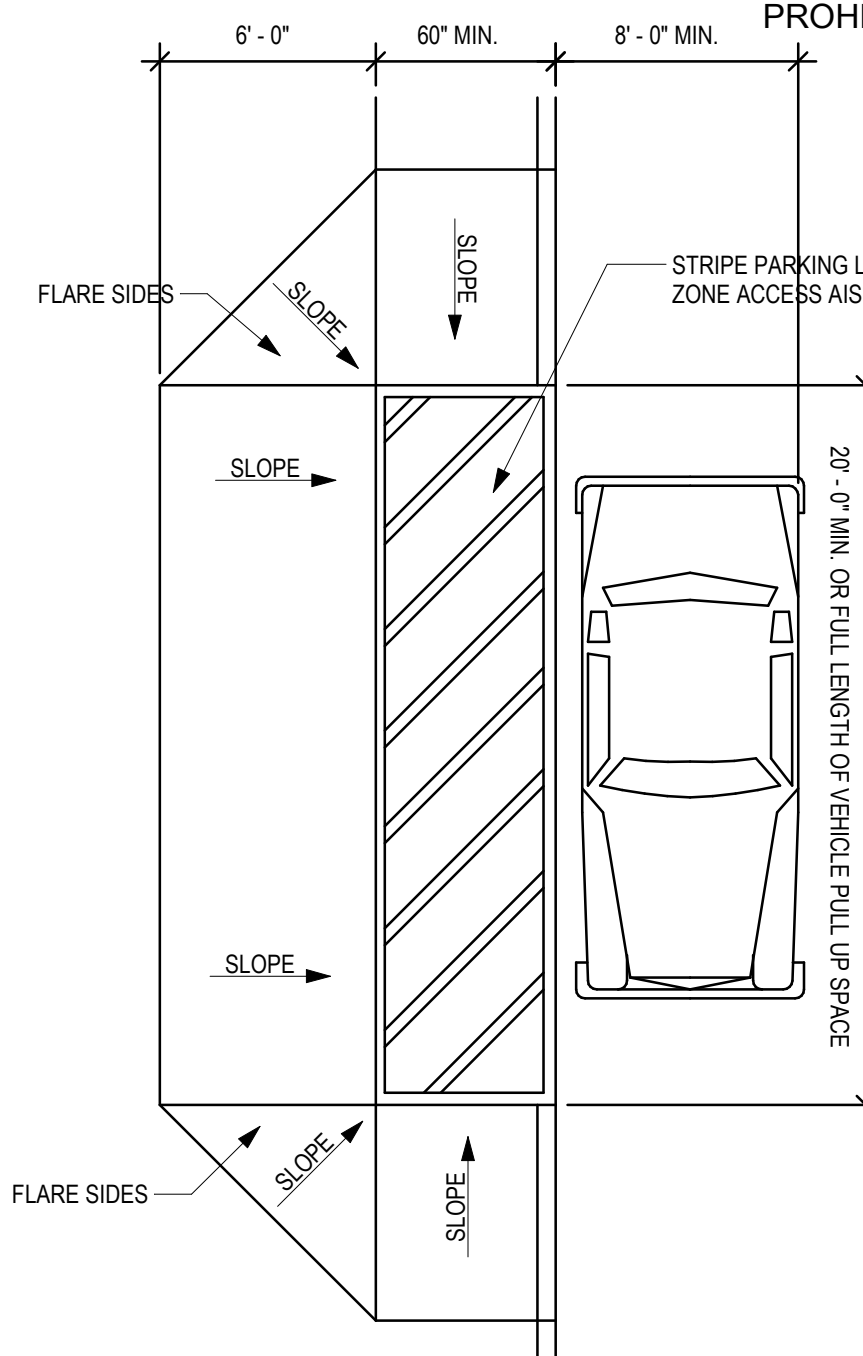


ACCESSIBLE BENCH



SECTION THROUGH CURB RAMP

ALL CURB RAMP SLOPES AND FLARED SIDES SHALL BE 1:12 MAX. FLARED SIDES AT CURB RAMPS MAY BE ALLOWED TO SLOPE 1:10 MAX WHERE EXISTING CONDITIONS PROHIBIT A SLOPE OF 1:12.



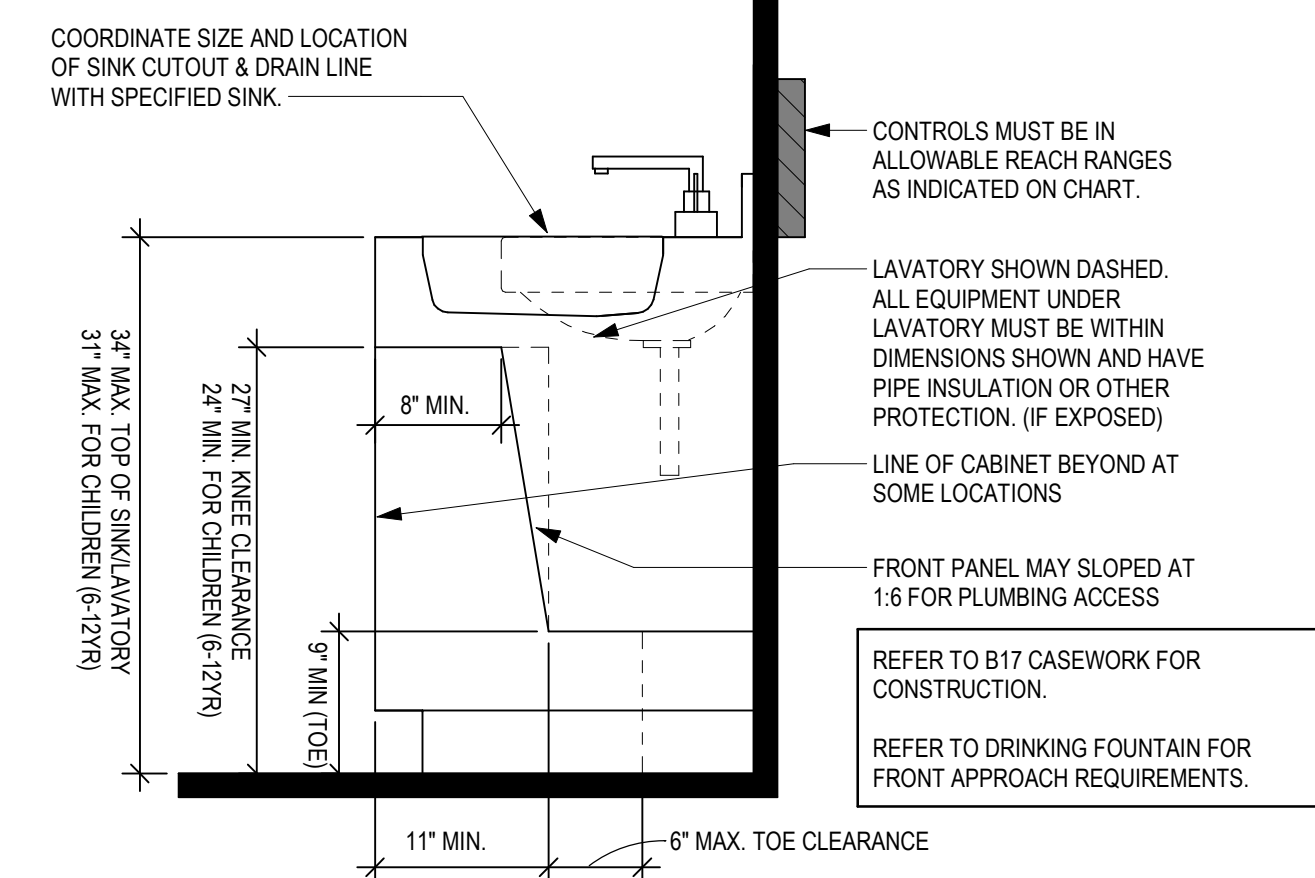
* - ONE PASSENGER LOADING ZONE SHALL BE PROVIDED FOR EVERY CONTINUOUS 100 LINEAR FEET OF LOADING SPACE, OR FRACTION THEREOF.

PASSENGER LOADING ZONE

GENERAL CURB RAMP NOTES:

- ADJACENT SURFACES TO RAMP MUST BE NO STEEPER THAN 1:20, REQUIRED LANDING AREAS SHALL BE NO STEEPER THAN 1:48.
- ALL CURB RAMPS OUTSIDE OF PROPERTY (IN RIGHT OF WAY) ARE TO BE DESIGNED BASED ON THE LOCAL JURISDICTION.
- CURB RAMPS ARE NOT TO BE PROJECTED INTO VEHICULAR TRAFFIC LANES, PARKING SPACES, OR PARKING ACCESS AISLES.
- RAMPS THAT ARE IN MARKED CROSSINGS SHALL BE CONTAINED WITHIN THAT MARKING.

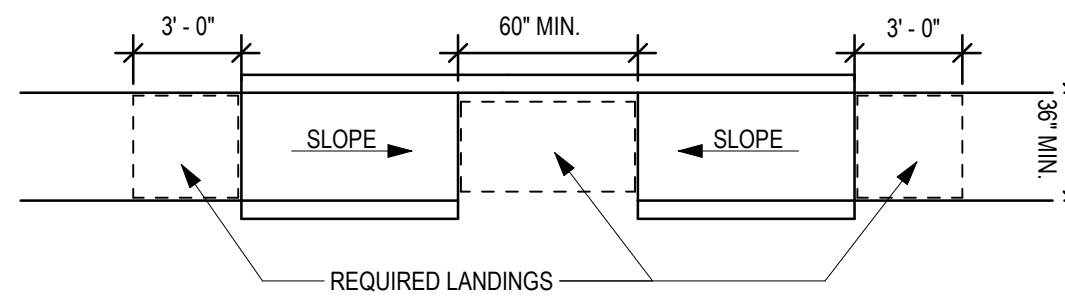
TYPICAL CURB RAMP DETAILS



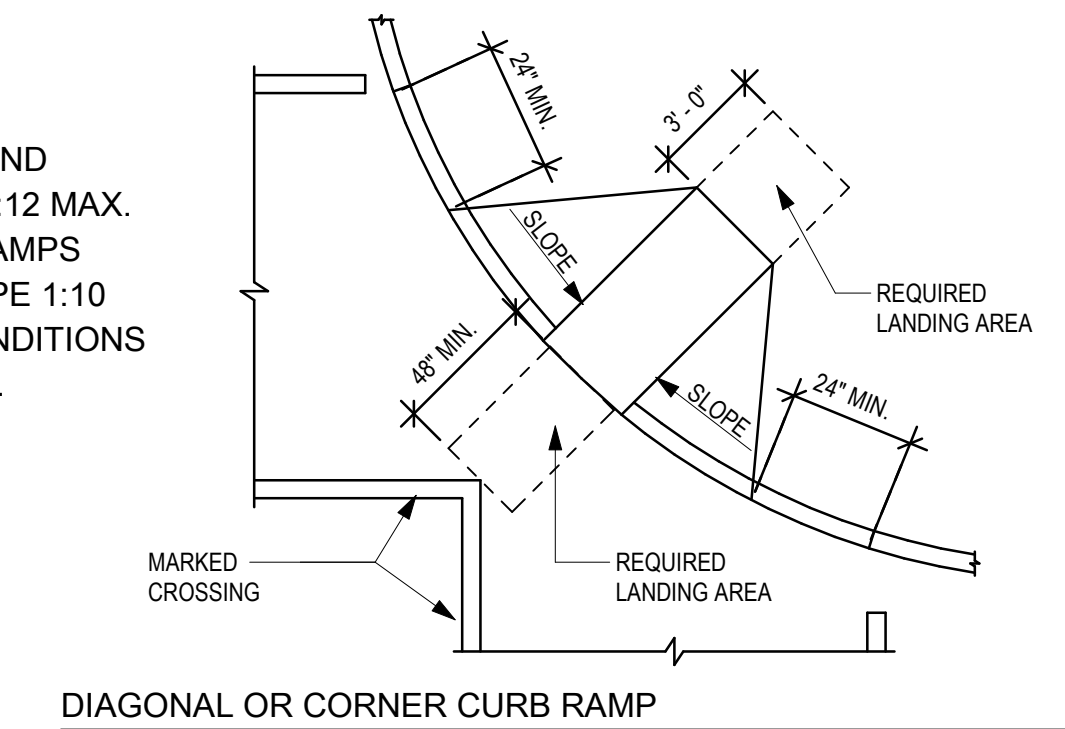
GENERAL NOTES:

- A PARALLEL APPROACH CAN BE PROVIDED TO LAVATORIES AND SINKS USED PRIMARILY BY CHILDREN 5 YEARS AND YOUNGER
- DIP OF THE OVERFLOW SHALL NOT BE CONSIDERED IN DETERMINING KNEE AND TOE CLEARANCES.
- METERED FAUCETS SHALL REMAIN OPEN FOR 10 SECONDS MINIMUM.

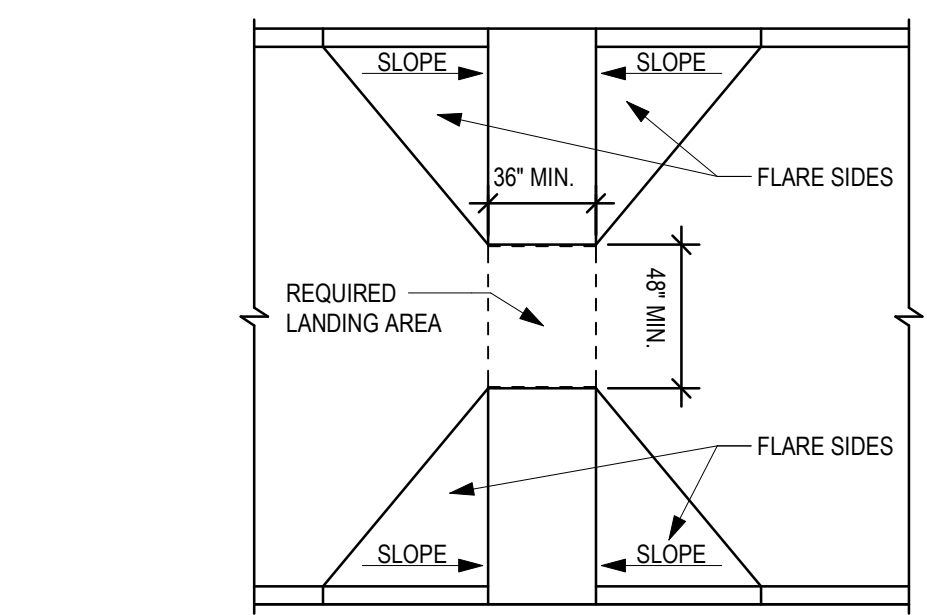
ACCESSIBLE SINK AND LAVATORY



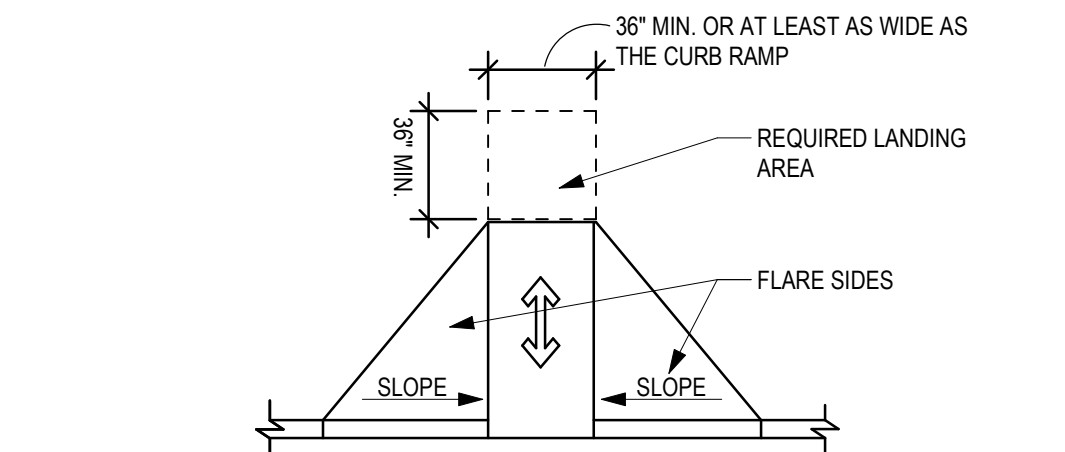
STRAIGHT RAMP



DIAGONAL OR CORNER CURB RAMP



ISLAND CURB RAMP

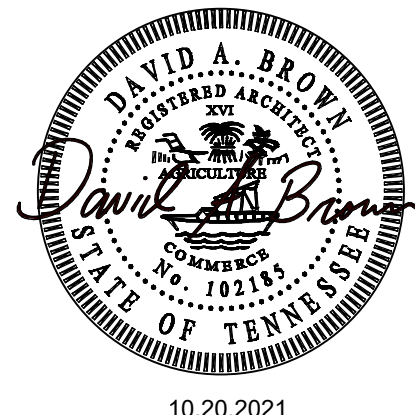


SIDES AND TOP OF STANDARD CURB RAMP

ASHLAND CITY C-STORE

DHAVAL PATEL
 0 Old Hydes Ferry Pike, Ashland City, TN 37015

CLIENT CONTACT:
 DHAVAL PATEL
 (615) 588-5887 | dhawalom@gmail.com



MERIDIAN ARCHITECTURE

nashville, tennessee
 e: office@meridiantn.com
 t: 615.390.2236
 www.meridiantn.com

REVISIONS:

DELTA	DESCRIPTION	DATE

DATE OF ISSUE: 10.20.2021

MA PROJECT NO: 0214-21

PROJECT PHASE: CD

DRAWN BY: TEAM

ADA DETAILS

G-006

Site Plan for Old Hydes Ferry Pike

Being a Portion of Parcel 4.01 on Tax Map 62
Ashland City, Cheatham County, Tennessee

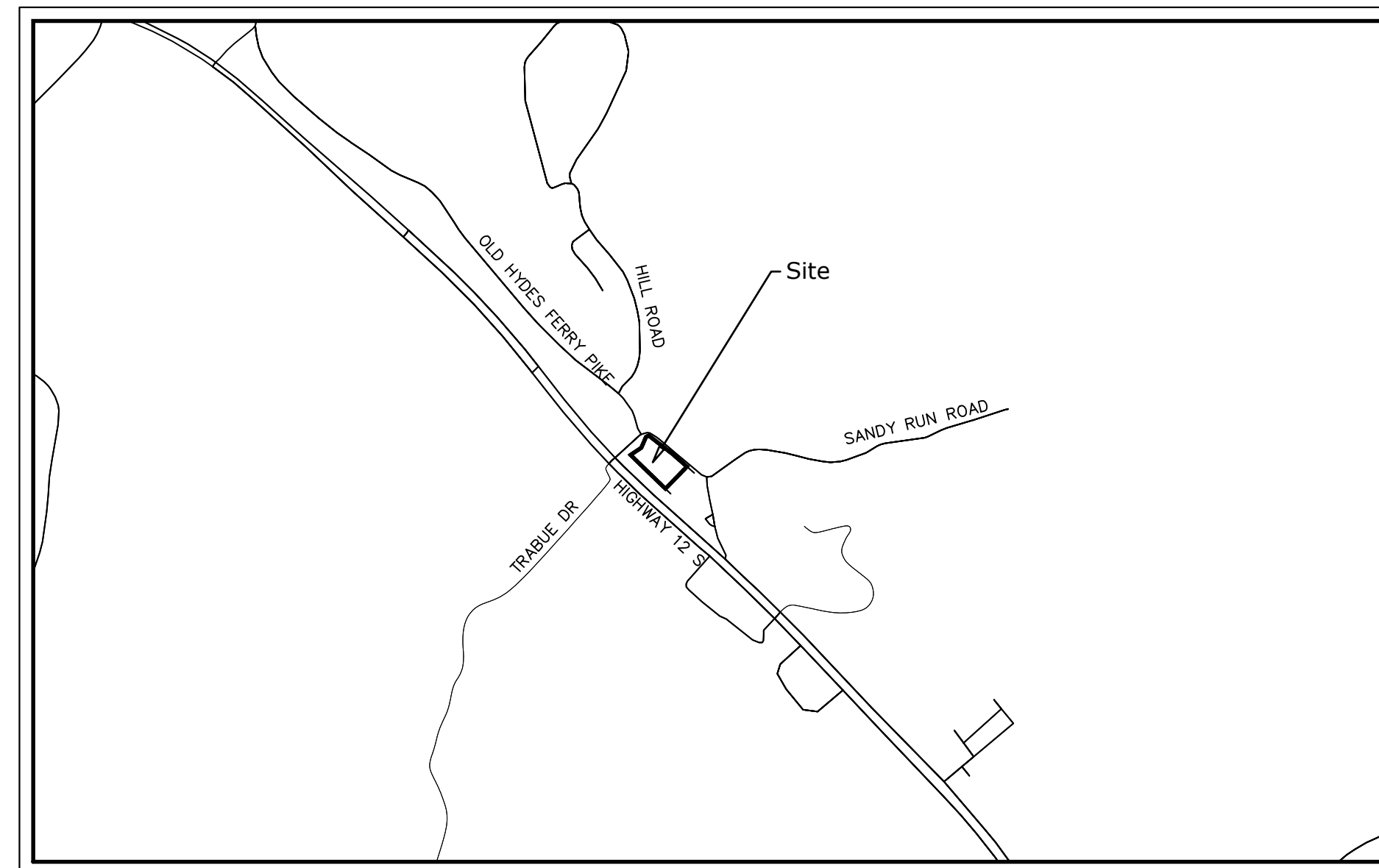
Revisions:

Drawing Notes:

Date: October 20, 2021

General Notes:

1. BOUNDARY, EASEMENT AND TOPOGRAPHIC INFORMATION SHOWN IN BASED ON A ALTA/ACSM LAND TITLE SURVEY CONDUCTED BY SOUTHERN CONSULTING AND DATED DECEMBER 3, 2020.
2. THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION OR EARTH MOVING OPERATIONS. INFORM ENGINEER OF ANY CONFLICTS DETRIMENTAL TO THE DESIGN INTENT.
3. 72 HOURS BEFORE DIGGING IS TO COMMENCE, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES: TENNESSEE 811 AND ALL OTHER AGENCIES THAT MAY HAVE UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE NON-MEMBERS OF TENNESSEE 811.
4. THE CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COMPLYING WITH APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SUBCONTRACTORS TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.
5. THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER AND OWNER'S REPRESENTATIVE FOR ANY AND ALL INJURIES AND/OR DAMAGES TO PERSONNEL, EQUIPMENT AND/OR EXISTING FACILITIES OCCURRING IN THE COURSE OF THE DEMOLITION AND CONSTRUCTION DESCRIBED IN THE PLANS AND SPECIFICATIONS.
6. CONTRACTOR SHALL OBTAIN A PERMIT FOR ALL CONSTRUCTION ACTIVITIES AND PERFORM SAID ACTIVITIES IN ACCORDANCE WITH ALL LOCAL, STATE, FEDERAL & OSHA REGULATIONS.
7. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL CODES, OBTAIN ALL APPLICABLE PERMITS, AND PAY ALL REQUIRED FEES PRIOR TO BEGINNING WORK.
8. ANY WORK PERFORMED IN THE LOCAL RIGHT OF WAYS SHALL BE IN ACCORDANCE WITH THE APPLICABLE LOCAL REQUIREMENTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE NECESSARY PERMITS FOR THE WORK, SCHEDULE NECESSARY INSPECTIONS, AND PROVIDE THE NECESSARY TRAFFIC CONTROL MEASURES AND DEVICES, ETC., FOR WORK PERFORMED IN THE RIGHT OF WAYS.
9. THE PROPOSED SITE IMPROVEMENTS ARE NOT EXPECTED TO REQUIRE COVERAGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT ISSUED BY THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC). THE TOTAL SITE DISTURBANCE WILL BE LESS THAN ONE ACRE.
10. CONTRACTOR SHALL IMPLEMENT ALL SOIL AND EROSION CONTROL, PRACTICES REQUIRED BY METRO NASHVILLE AND TDEC.
11. ALL GROUND SURFACE AREAS THAT HAVE BEEN EXPOSED OR LEFT BARE AS A RESULT OF CONSTRUCTION AND ARE TO FINAL GRADE AND ARE TO REMAIN SO, SHALL BE PERMANENTLY STABILIZED AS SOON AS PRACTICAL IN ACCORDANCE WITH SPECIFICATIONS.
12. ALL WORK SHALL COMPLY WITH METRO NASHVILLE PUBLIC WORKS SPECIFICATIONS, AND ALL CONSTRUCTION WORK SHALL BE DONE ACCORDING TO SAID SPECIFICATIONS AND IN ACCORDANCE WITH APPLICABLE STANDARDS OF METRO NASHVILLE.
13. ALL WORK PERFORMED BY THE CONTRACTOR SHALL CONFORM TO THE LATEST REGULATIONS OF THE AMERICANS WITH DISABILITIES ACT.
14. CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SHEET IN THIS SET OF DOCUMENTS FULLY DEPICT ALL WORK ASSOCIATED WITH THE PROJECT.
15. BEFORE INSTALLATION OF STORM OR SANITARY SEWER, OR OTHER UTILITY THE CONTRACTOR SHALL VERIFY ALL CROSSINGS, BY EXCAVATION WHERE NECESSARY, AND INFORM THE OWNER AND THE ENGINEER OF ANY CONFLICTS. THE ENGINEER WILL BE HELD HARMLESS IN THE EVENT THEY ARE NOT NOTIFIED OF DESIGN CONFLICTS PRIOR TO CONSTRUCTION.
16. WHERE CURB IS PRESENT, DIMENSIONS ARE SHOWN TO THE FACE OF CURB, OTHERWISE DIMENSIONS ARE SHOWN TO THE EDGE OF PAVEMENT AND/OR EDGE OF BUILDING UNLESS OTHERWISE NOTED.
17. SITE SIGNAGE AND STRIPING SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.).
18. CONSTRUCTION OF ALL ROADWAYS AND SIDEWALKS SHALL MEET THE REQUIREMENTS OF METRO NASHVILLE PUBLIC WORKS ROADWAY CONSTRUCTION CRITERIA AND STANDARD DETAILS.
19. CONTRACTOR SHALL PROVIDE AND MAINTAIN TRAFFIC CONTROL MEASURES IN ACCORDANCE WITH STATE DEPARTMENT OF TRANSPORTATION REGULATIONS AND AS REQUIRED BY LOCAL AGENCIES WHEN WORKING IN AND/OR ALONG STREETS, ROADS, HIGHWAYS, ETC. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN APPROVAL AND COORDINATE WITH LOCAL AND/OR STATE AGENCIES REGARDING THE NEED, EXTENT AND LIMITATIONS ASSOCIATED WITH INSTALLING AND MAINTAINING TRAFFIC CONTROL MEASURES.
20. ALL TRENCHING, PIPE LAYING AND BACKFILLING SHALL BE IN ACCORDANCE WITH ALL FEDERAL OSHA REGULATIONS. CONTRACTOR TO PAY PARTICULAR ATTENTION TO 29 CFR PART 1926, SUBPARTS M AND P.



Vicinity Map
NTS

Sheet Schedule

1	C0.0	Cover Sheet
2	C1.0	Layout & Utilities Plan
3	C2.0	Existing Conditions & Initial Erosion Control Plan
4	C3.0	Intermediate Erosion Control Plan
5	C4.0	Grading & Drainage Plan
6	C5.0	Details
7	C5.1	Details (Cont.)
8	L1.0	Landscape Compliance Plan

Project Summary

Site Data

Commissioner District - 4
Brian Abston

Property Location/Address:
0 Old Hydes Ferry Pike
Ashland City, TN 37015

Property Owner/Developer:
Ramdal Ashland City LLC
Address: 505 Whirlaway CT
Burns, TN 37029
Phone: (615) 598-5887

Engineer:
Dewey Engineering
Contact: Michael Dewey, PE
Address: 2925 Berry Hill Drive
Nashville, TN 37204
Phone: (615) 401-9956

Flood Note:
A Portion of this Property is Located
Within a Flood Hazard Area as Indicated
by Zone 'AE' on FEMA Map Number
47189C0142C.
Dated: Feb. 20, 2008.

Site Information

Parcel: Tax Map 62, Portion of Parcel 4.01

Current Zoning: C2

Total Site Area: 1.60 Acres (69,752 SF)

Current Use: Vacant
Proposed Use: Convenience Retail Sales and Services, Food & Beverage Service

Setbacks:
Street Yard: 40'
Side Yard: 10'

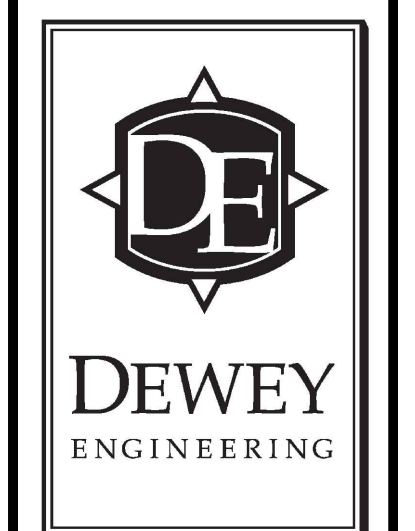
Max Building Height: 40'

ISR of Site: 62%

Building Coverage of Site: 9%
Building Square Footage (Gross)
4,002 SF Convenience Retail Sales and Services
2,520 SF Food & Beverage Service

Parking Required: 29 Stalls (Per Section 4.010.1.C)
Parking Provided: 50 Stalls

Old Hydes Ferry Pike
Being Parcel 4.01 on Tax Map 62
Ashland City, Cheatham County, Tennessee

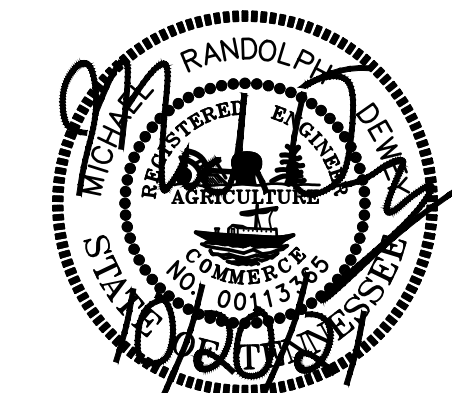


Cover Sheet

Job No. 20053

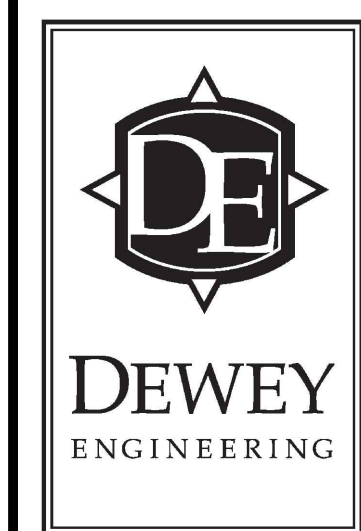
C0.0

1 of 8



Old Hydes Ferry Pike

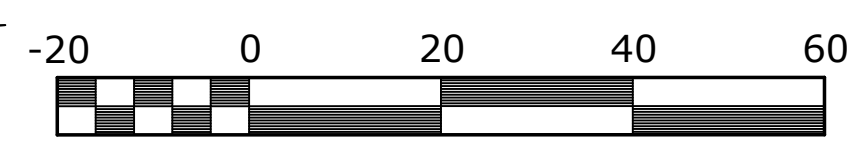
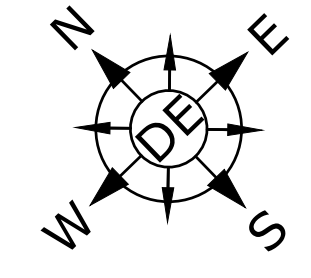
Being Parcel 4.01 on Tax Map 62
Ashland City, Cheatham County, Tennessee



Layout & Utilities Plan

Job No. 20053

C1.0

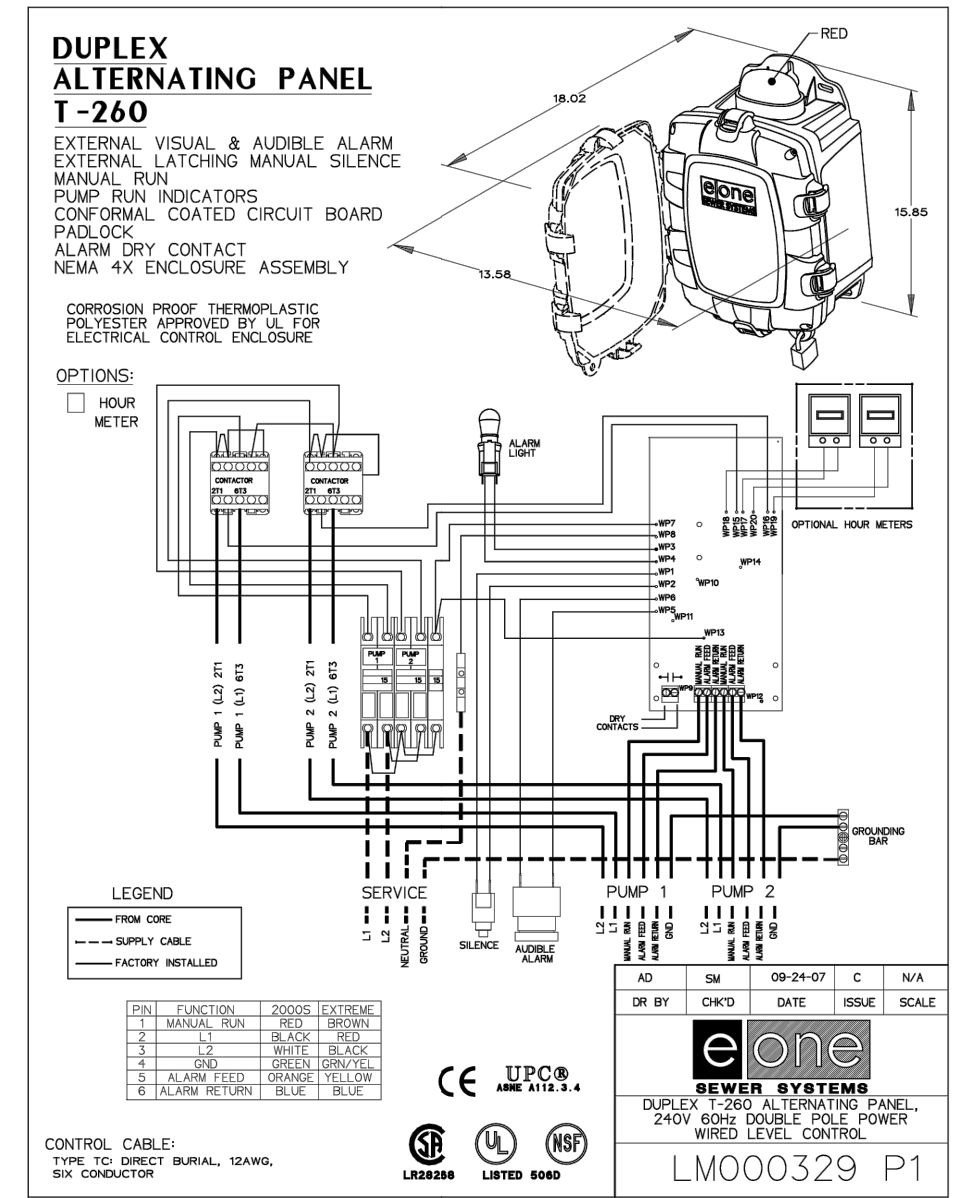


Scale 1" = 20'

Property Owner/Developer:
Randal Ashland City LLC
Contact: Dhaval Patel
Address: 505 Whirlaway Ct
Burns, TN 37029
Phone: (615) 598-5887

Engineer:
Dewey Engineering
Contact: Michael Dewey, PE
Address: 2925 Berry Hill Drive
Nashville, TN 37204
Phone: (615) 401-9956

Flood Note:
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Within a Flood Hazard Area as Indicated
by Zone 'AE' on FEMA Map Number
47189C0142C.
Dated: Feb. 20, 2008.



BENCHMARK
EXISTING FIRE HYDRANT
ELEV. = 410.30

Approximate Location of Sign. Sign Shall Not
Exceed 20' in Height or 40 SF of Display Area. Sign
Shall not be Constructed Until Sign Permit is Issued.

TDOT NOTES:
1. THERE WILL BE NO INCREASE IN THE Q50 RUNOFF FROM THE
DEVELOPMENT ONTO TDOT ROW.
2. ALL DRIVEWAYS MEET AASHTO INTERSECTION SIGHT DISTANCE.

E/One Grinder Pump.
Detail This Sheet.

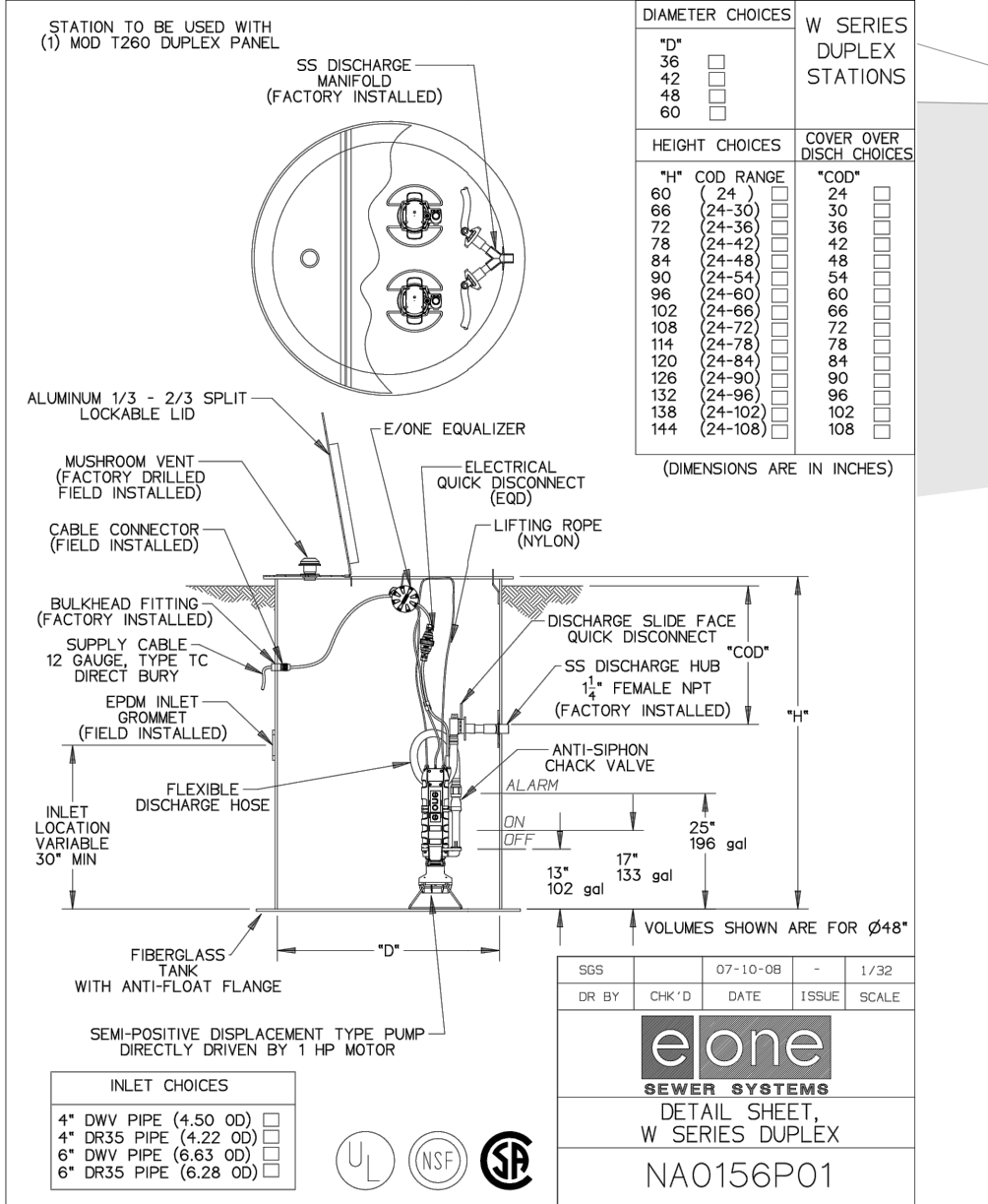
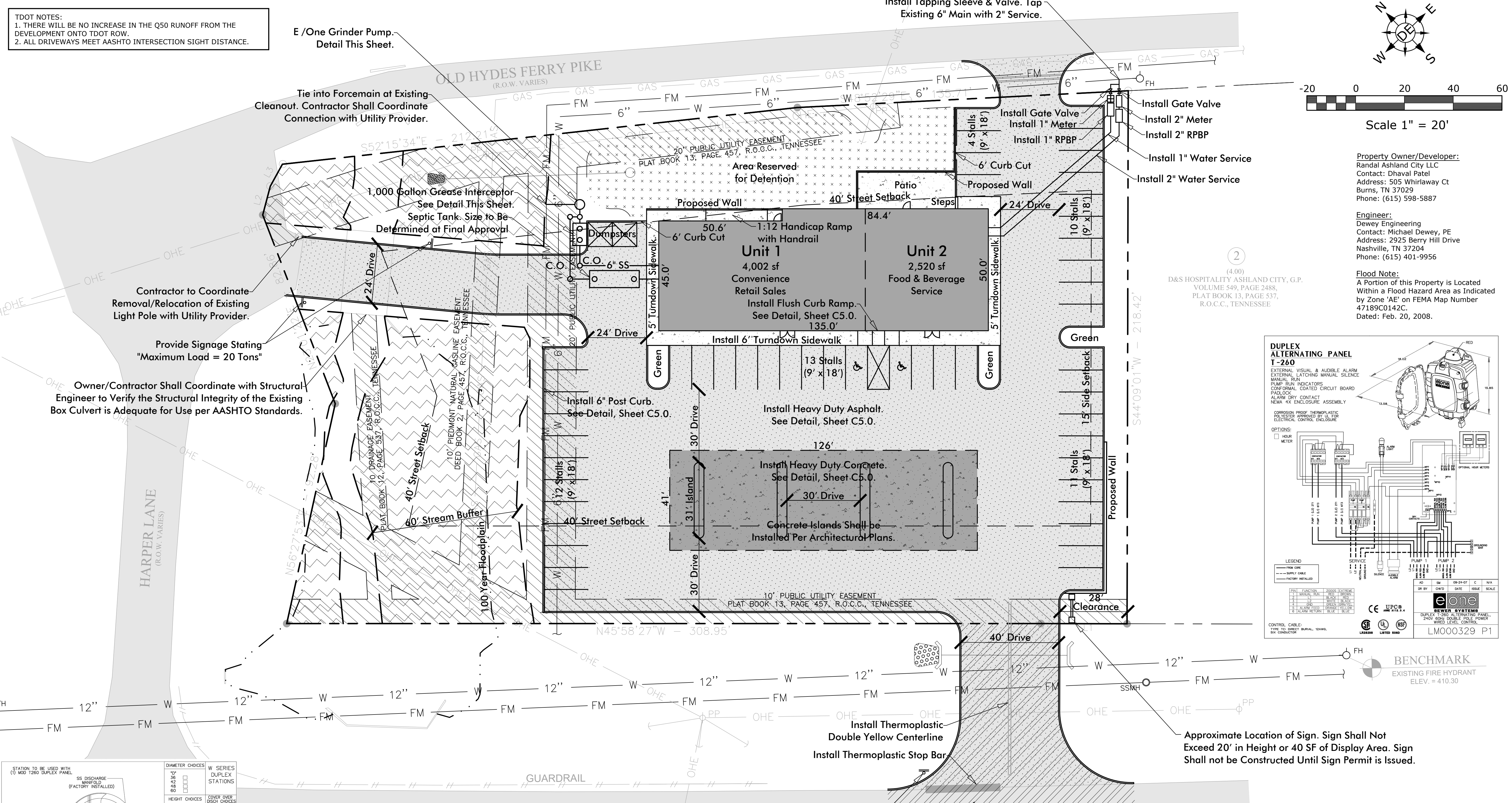
Tie into Forceman at Existing
Cleanout. Contractor Shall Coordinate
Connection with Utility Provider.

1,000 Gallon Grease Interceptor
See Detail This Sheet.
Septic Tank. Size to Be
Determined at Final Approval

Contractor to Coordinate
Removal/Relocation of Existing
Light Pole with Utility Provider.

Provide Signage Stating
"Maximum Load = 20 Tons"

Owner/Contractor Shall Coordinate with Structural
Engineer to Verify the Structural Integrity of the Existing
Box Culvert is Adequate for Use per AASHTO Standards.



JARRETT Concrete Products 615-792-9332
2012 Hwy 12 South, Ashland City, TN 37015

28 Day, 5,000 PSI Concrete
#4 Rebar @ 12" O.C. in Grids 60
W/ 6" Boots the Inverts Drops 1"
Meets ASTM C-1227, 190, 923
Monolithic Tank Design
"Top Tight" Patent Pending
1420 Traffic Signs
P/HR Not To Scale

ALL TANKS SOLD BY JCP NEEDS TO BE
WATER TESTED WITHIN FIVE BUSINESS
DAYS FROM THE TIME WE SET THE TANKS.
IF THE TANKS IS NOT TESTED WITHIN FIVE
BUSINESS DAYS, IT IS ASSUMED YOU HAVE
OBTAINED AN INSURANCE LETTER AT YOUR
RISK AND AT YOUR OWNERS RISK.
RESPONSIBILITY FOR CUSTOMER AND
SCHEDULE THIS WATER TEST WITH THE
LOCAL INSPECTOR.

Diffused inlet riser, inlet openings and locations
are available by special order.
Diffused access openings and vent pipe stops
are available by special order.
Height and lengths of tanks can be altered to
adapt to conditions by special order.
Jarrett Concrete reserves the right to make
changes without notice.

JARRETT CONCRETE

Grease Trap 1000 Gallon
Date: 8-7-2019 Drawn By: L.Owen Weight: 10,377 lbs

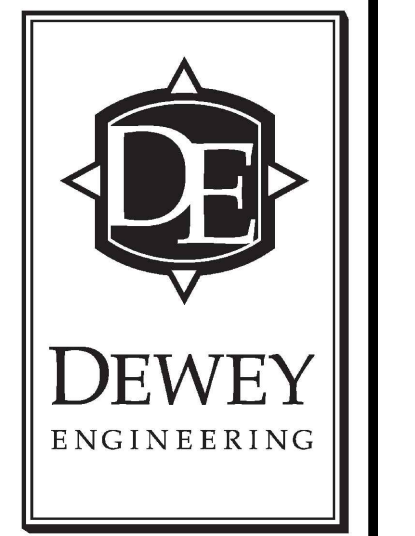
Revisions:

Drawing Notes:

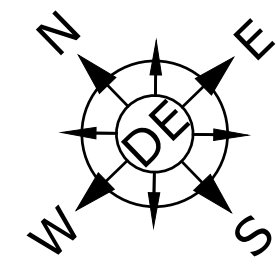
Date: October 20, 2021

Old Hydes Ferry Pike

Being Parcel 4.01 on Tax Map 62
Ashland City, Cheatham County, Tennessee



Existing Conditions & Initial Erosion Control Plan
Job No. 20053
C2.0
3 of 8

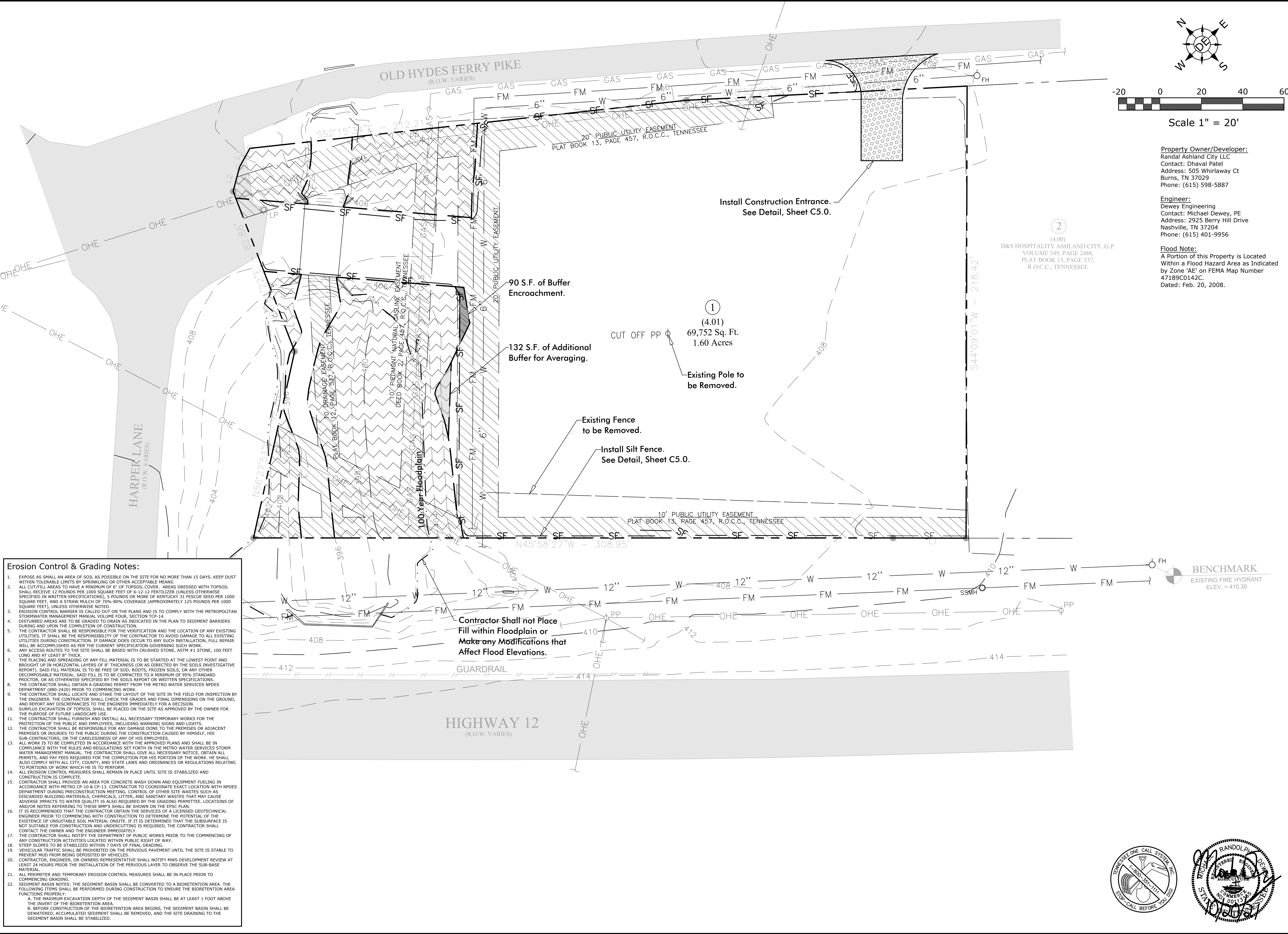


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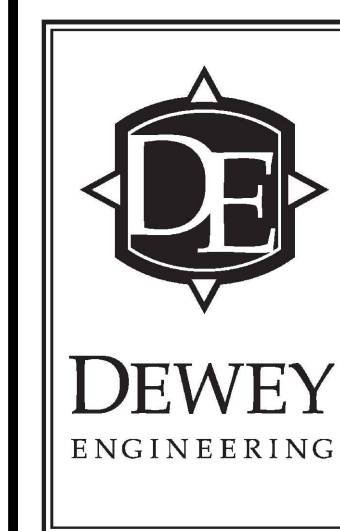
Flood Note:
A Portion of this Property is Located Within a Flood Hazard Area as Indicated by Zone 'AE' on FEMA Map Number 47189C0142C.
Dated: Feb. 20, 2008.



- Erosion Control & Grading Notes:**
1. EXPOSE AS SMALL AN AREA OF SOIL AS POSSIBLE ON THE SITE FOR NO MORE THAN 15 DAYS. KEEP DUST WITHIN TOLERABLE LIMITS BY SPRINKLING OR OTHER ACCEPTABLE MEANS.
 2. ALL CUT/FILL AREAS TO HAVE A MINIMUM OF 6" OF TOPSOIL COVER. AREAS DRESSED WITH TOPSOIL SHALL RECEIVE 12 POUNDS PER 1000 SQUARE FEET OF 6-12-12 FERTILIZER (UNLESS OTHERWISE SPECIFIED IN WRITTEN SPECIFICATIONS), 5 POUNDS OR MORE OF KENTUCKY 31 FESCUE SEED PER 1000 SQUARE FEET, AND A STRAW MULCH OF 70%-80% COVERAGE (APPROXIMATELY 125 POUNDS PER 1000 SQUARE FEET), UNLESS OTHERWISE NOTED.
 3. EROSION CONTROL BARRIER IS CALLED OUT ON THE PLANS AND IS TO COMPLY WITH THE METROPOLITAN STORMWATER MANAGEMENT MANUAL VOLUME FOUR, SECTION TOP-14.
 4. DISTURBED AREAS ARE TO BE GRADED TO DRAIN AS INDICATED IN THE PLAN TO SEDIMENT BARRIERS DURING AND UPON THE COMPLETION OF CONSTRUCTION.
 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION AND THE LOCATION OF ALL EXISTING UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO AVOID DAMAGE TO ALL EXISTING UTILITIES DURING CONSTRUCTION. IF DAMAGE DOES OCCUR TO ANY SUCH INSTALLATION, FULL REPAIR WILL BE ACCOMPLISHED AS PER THE CURRENT SPECIFICATION GOVERNING SUCH WORK.
 6. ANY ACCESS ROUTES TO THE SITE SHALL BE BASED WITH CRUSHED STONE, ASTM #1 STONE, 100 FEET LONG AND AT LEAST 8" THICK.
 7. THE PLACING AND SPREADING OF ANY FILL MATERIAL IS TO BE STARTED AT THE LOWEST POINT AND BROUGHT UP IN HORIZONTAL LAYERS OF 8" THICKNESS (OR AS DIRECTED BY THE SOILS INVESTIGATIVE REPORT). SAID FILL MATERIAL IS TO BE FREE OF SOIL, ROOTS, FROZEN SOILS, OR ANY OTHER DECOMPOSABLE MATERIAL. SAID FILL IS TO BE COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR, OR AS OTHERWISE SPECIFIED BY THE SOILS REPORT OR WRITTEN SPECIFICATIONS.
 8. THE CONTRACTOR SHALL OBTAIN A GRADING PERMIT FROM THE METRO WATER SERVICES NPDES DEPARTMENT (880-2420) PRIOR TO COMMENCING WORK.
 9. THE CONTRACTOR SHALL LOCATE AND STAKE THE LAYOUT OF THE SITE IN THE FIELD FOR INSPECTION BY THE ENGINEER. THE CONTRACTOR SHALL CHECK THE GRADES AND FINAL DIMENSIONS ON THE GROUND, AND REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY FOR A DECISION.
 10. SURPLUS EXCAVATION OF TOPSOIL SHALL BE PLACED ON THE SITE AS APPROVED BY THE OWNER FOR THE PURPOSE OF FUTURE LANDSCAPE USE.
 11. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY TEMPORARY WORKS FOR THE PROTECTION OF THE PUBLIC AND EMPLOYEES, INCLUDING WARNING SIGNS AND LIGHTS.
 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE DONE TO THE PREMISES OR ADJACENT PREMISES OR INJURING TO THE PUBLIC DURING THE CONSTRUCTION CAUSED BY HIMSELF, HIS SUB-CONTRACTORS, OR THE CARELESSNESS OF ANY OF HIS EMPLOYEES.
 13. ALL WORK IS TO BE COMPLETED IN ACCORDANCE WITH THE APPROVED PLANS AND SHALL BE IN COMPLIANCE WITH THE RULES AND REGULATIONS SET FORTH IN THE METRO WATER SERVICES STORM WATER MANAGEMENT MANUAL. THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICE, OBTAIN ALL PERMITS, AND PAY FEES REQUIRED FOR THE COMPLETION FOR HIS PORTION OF THE WORK. HE SHALL ALSO COMPLY WITH ALL CITY, COUNTY, AND STATE LAWS AND ORDINANCES OR REGULATIONS RELATING TO PORTIONS OF WORK WHICH HE IS TO PERFORM.
 14. ALL EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL SITE IS STABILIZED AND CONSTRUCTION IS COMPLETE.
 15. CONTRACTOR SHALL PROVIDE AN AREA FOR CONCRETE WASH DOWN AND EQUIPMENT FUELING IN ACCORDANCE WITH METRO CP-10 & CP-13. CONTRACTOR TO COORDINATE EXACT LOCATION WITH NPDES DEPARTMENT DURING PRECONSTRUCTION MEETING. CONTROL OF OTHER SITE WASTES SUCH AS DISCARDED BUILDING MATERIALS, CHEMICALS, LITTER, AND SANITARY WASTES THAT MAY CAUSE ADVERSE IMPACTS TO WATER QUALITY IS ALSO REQUIRED BY THE GRADING PERMITTEE. LOCATIONS OF AND/OR NOTES REFERRING TO THESE BMP'S SHALL BE SHOWN ON THE EPSC PLAN.
 16. IT IS RECOMMENDED THAT THE CONTRACTOR OBTAIN THE SERVICES OF A LICENSED GEOTECHNICAL ENGINEER PRIOR TO COMMENCING WITH CONSTRUCTION TO DETERMINE THE POTENTIAL OF THE EXISTENCE OF UNSUITABLE SOIL MATERIAL ON-SITE. IF IT IS DETERMINED THAT THE SUBSURFACE IS NOT SUITABLE FOR CONSTRUCTION AND UNDERCUTTING IS REQUIRED, THE CONTRACTOR SHALL CONTACT THE OWNER AND THE ENGINEER IMMEDIATELY.
 17. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS PRIOR TO THE COMMENCING OF ANY CONSTRUCTION ACTIVITIES LOCATED WITHIN PUBLIC RIGHT OF WAY.
 18. STEEP SLOPES TO BE STABILIZED WITHIN 7 DAYS OF FINAL GRADING.
 19. VEHICULAR TRAFFIC SHALL BE PROHIBITED ON THE PERVIOUS PAVEMENT UNTIL THE SITE IS STABLE TO PREVENT MUD FROM BEING DEPOSITED BY VEHICLES.
 20. CONTRACTOR, ENGINEER, OR OWNERS REPRESENTATIVE SHALL NOTIFY MWS DEVELOPMENT REVIEW AT LEAST 24 HOURS PRIOR TO THE INSTALLATION OF THE PERVIOUS LAYER TO OBSERVE THE SUB-BASE MATERIAL.
 21. ALL PERIMETER AND TEMPORARY EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCING GRADING.
 22. SEDIMENT BASIN NOTES: THE SEDIMENT BASIN SHALL BE CONVERTED TO A BIOTENTION AREA. THE FOLLOWING ITEMS SHALL BE PERFORMED DURING CONSTRUCTION TO ENSURE THE BIOTENTION AREA FUNCTIONS PROPERLY.
 - A. THE MAXIMUM EXCAVATION DEPTH OF THE SEDIMENT BASIN SHALL BE AT LEAST 1 FOOT ABOVE THE INVERT OF THE BIOTENTION AREA.
 - B. BEFORE CONSTRUCTION OF THE BIOTENTION AREA BEGINS, THE SEDIMENT BASIN SHALL BE DEWATERED, ACCUMULATED SEDIMENT SHALL BE REMOVED, AND THE SITE DRAINING TO THE SEDIMENT BASIN SHALL BE STABILIZED.

Old Hydes Ferry Pike

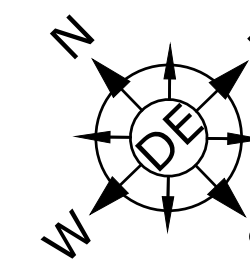
Being Parcel 4.01 on Tax Map 62
Ashland City, Cheatham County, Tennessee



Intermediate
Erosion
Control Plan

Job No. 20053

C3.0

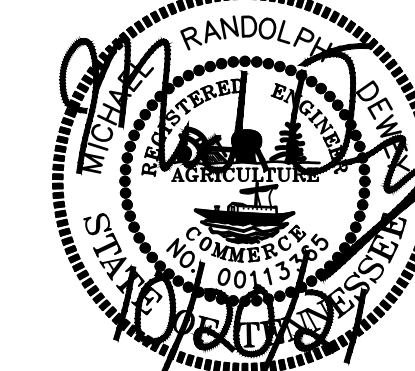
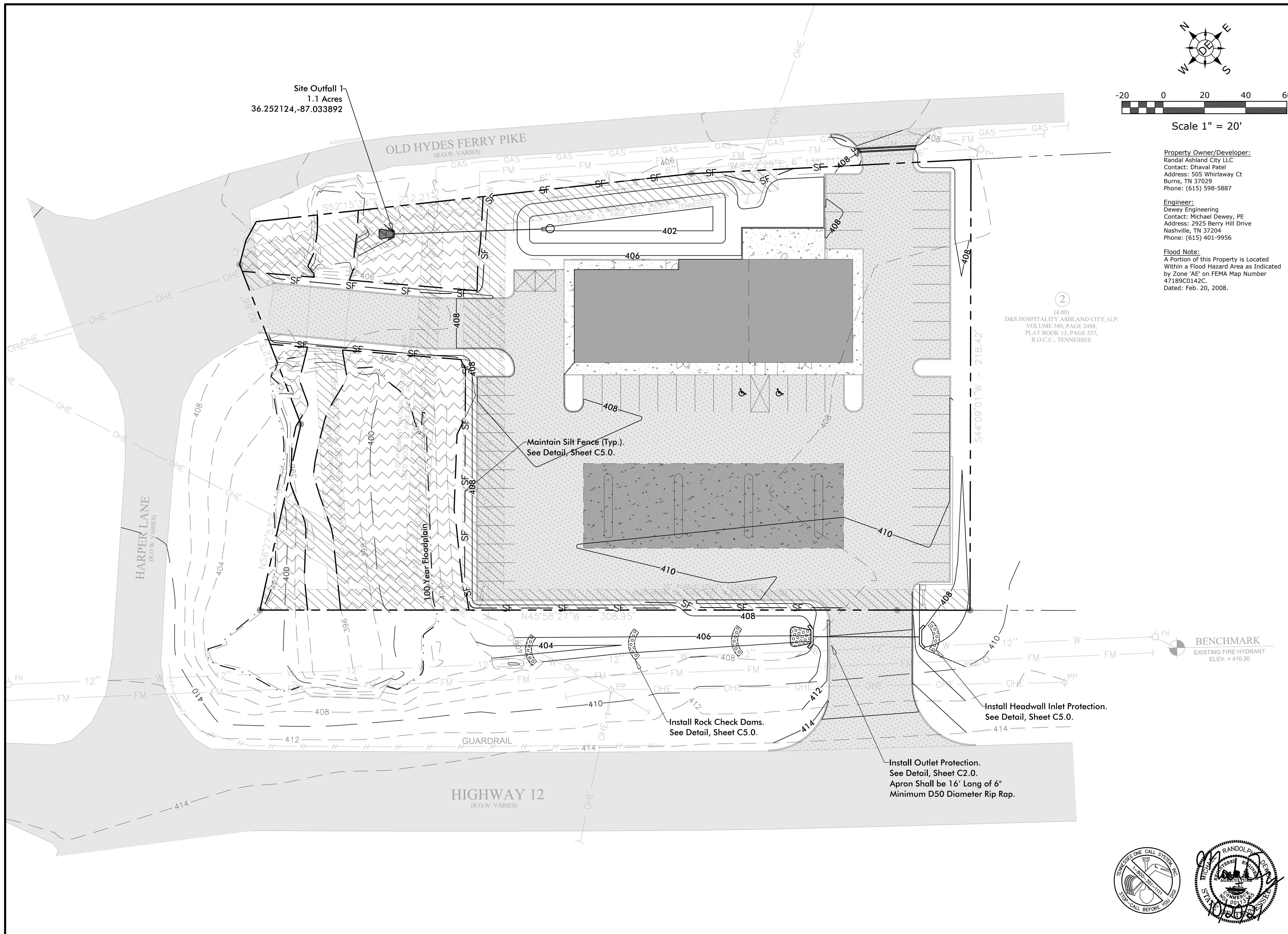


Scale 1" = 20'

Property Owner/Developer:
Randal Ashland City LLC
Contact: Dhaval Patel
Address: 505 Whirlaway Ct
Burns, TN 37029
Phone: (615) 598-5887

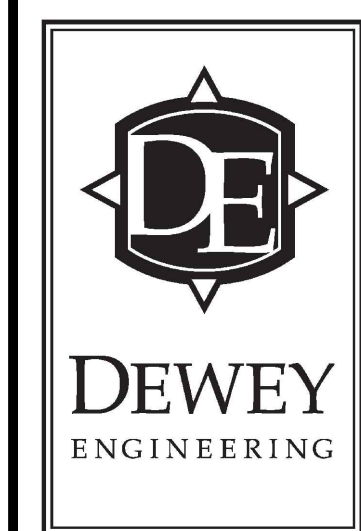
Engineer:
Dewey Engineering
Contact: Michael Dewey, PE
Address: 2925 Berry Hill Drive
Nashville, TN 37204
Phone: (615) 401-9956

Flood Note:
A Portion of this Property is Located
Within a Flood Hazard Area as Indicated
by Zone 'AE' on FEMA Map Number
47189C0142C.
Dated: Feb. 20, 2008.

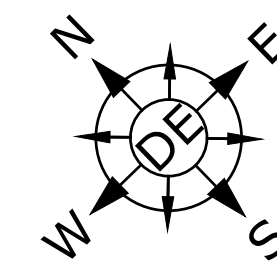


Old Hydes Ferry Pike

Being Parcel 4.01 on Tax Map 62
Ashland City, Cheatham County, Tennessee



Grading & Drainage Plan



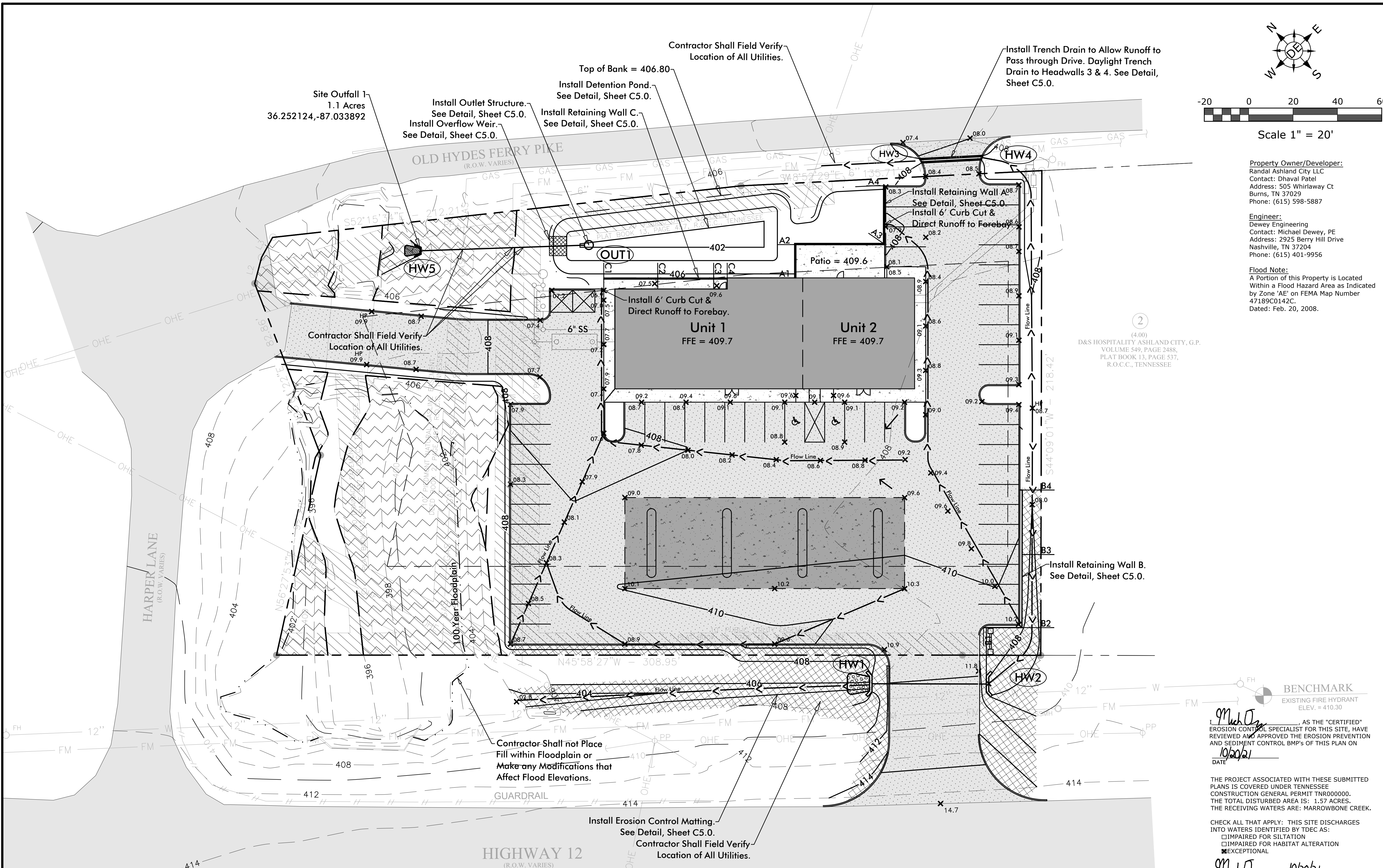
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Dated: Feb. 20, 2008.

(4.00)
D&S HOSPITALITY ASHLAND CITY, G.P.
VOLUME 549, PAGE 2488,
PLAT BOOK 13, PAGE 537,
R.O.C.C., TENNESSEE



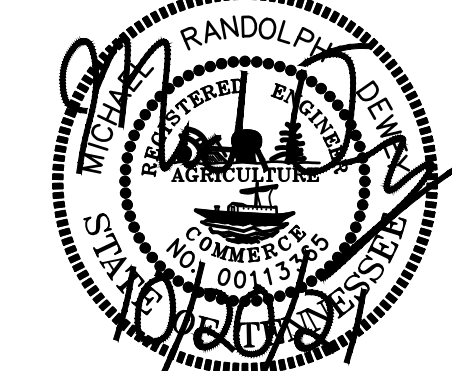
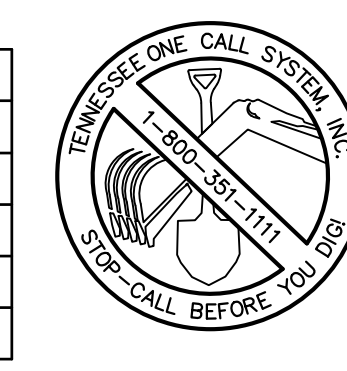
BENCHMARK
EXISTING FIRE HYDRANT
ELEV. = 410.30

Michael Dewey
AS THE "CERTIFIED"
EROSION CONTROL SPECIALIST FOR THIS SITE, HAVE
REVIEWED AND APPROVED THE EROSION PREVENTION
AND SEDIMENT CONTROL BMP'S OF THIS PLAN ON
10/20/21
DATE

THE PROJECT ASSOCIATED WITH THESE SUBMITTED
PLANS IS COVERED UNDER TENNESSEE
CONSTRUCTION GENERAL PERMIT TNR000000.
THE TOTAL DISTURBED AREA IS: 1.57 ACRES.
THE RECEIVING WATERS ARE: MARROWBONE CREEK.

CHECK ALL THAT APPLY: THIS SITE DISCHARGES
INTO WATERS IDENTIFIED BY TDEC AS:
 IMPAIRED FOR SILTATION
 IMPAIRED FOR HABITAT ALTERATION
 EXCEPTIONAL

Michael Dewey
SIGNATURE
10/20/21
DATE



STRUCTURE LABEL	STRUCTURE TYPE	T.C. ELEV.1	INVERT IN	INVERT OUT
HW01	TDOT HEADWALL	409.80		405.80
HW02	TDOT HEADWALL	410.50		406.00
HW03	TRENCH DRAIN/HEADWALL	408.00		406.70
HW04	TRENCH DRAIN/HEADWALL	408.30		407.00
HW05	HEADWALL	403.00		401.00
OUT1	OUTLET STRUCTURE	405.30		401.40

DOWNSIDE STRUCTURE	INVERT	UPSTREAM STRUCTURE	INVERT	PIPE SIZE	LENGTH (LF)	Slope (%)
HW01	405.70	HW02	406.00	30" RCP	52	0.53
HW03	406.70	HW04	407.00	TRENCH DRAIN	28	1.07
HW05	401.12	OUT1	401.50	12" RCP	75	0.50

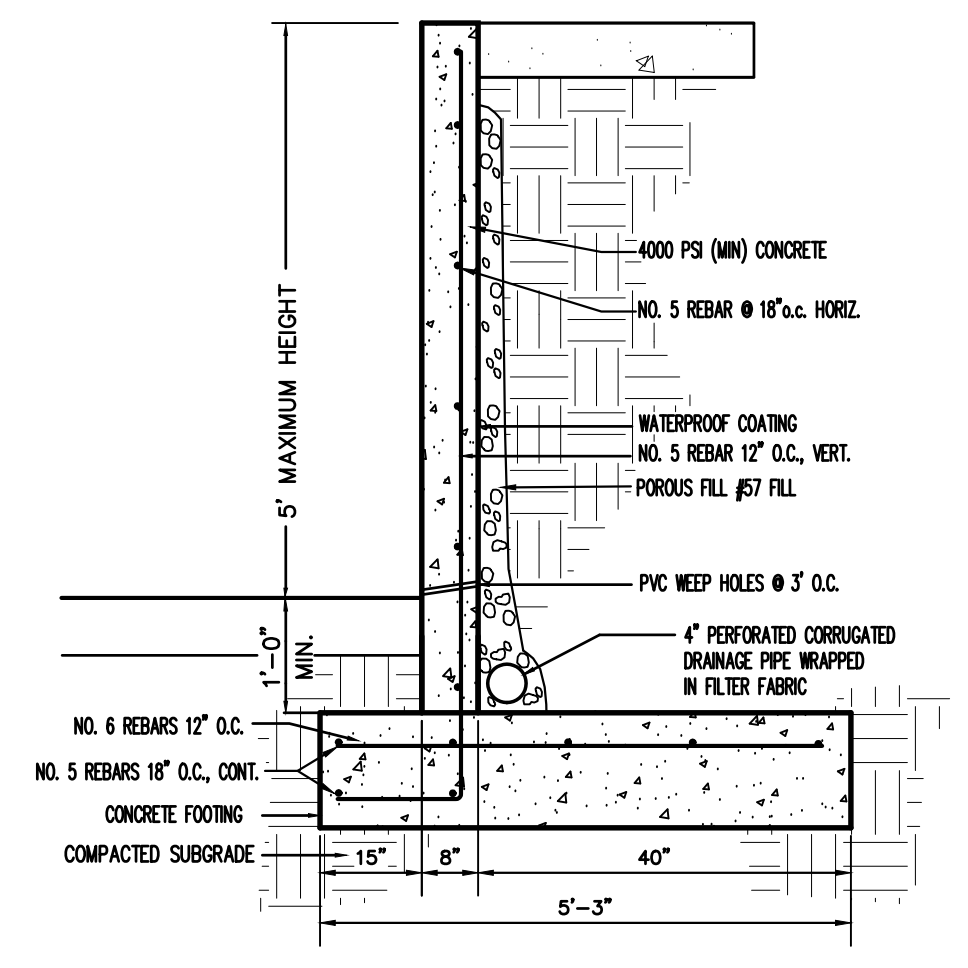
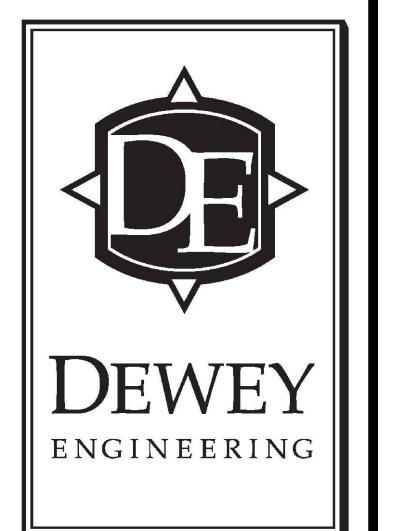
Label	TOW	BOW	Height (ft)
A1	409.6	404.8	4.8
A2	409.6	404.8	4.8
A3*	408.4	406.8	1.6
A4*	408.8	406.8	2.0

*Note: TOW Includes 6" Curb.

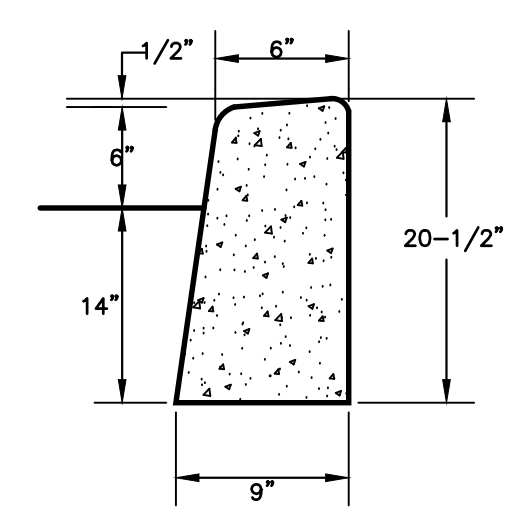
Label	TOW	BOW	Height (ft)
B1*	411.0	410.5	0.5
B2*	410.7	408.2	2.5
B3*	410.6	408.8	1.8
B4*	410.2	409.8	0.4

*Note: TOW Includes 6" Curb.

Label	TOW	BOW	Height (ft)
C1	407.5	406.6	0.9
C2	407.5	406.6	0.9
C3	409.6	406.6	3.0
C4	409.6	406.6	3.0



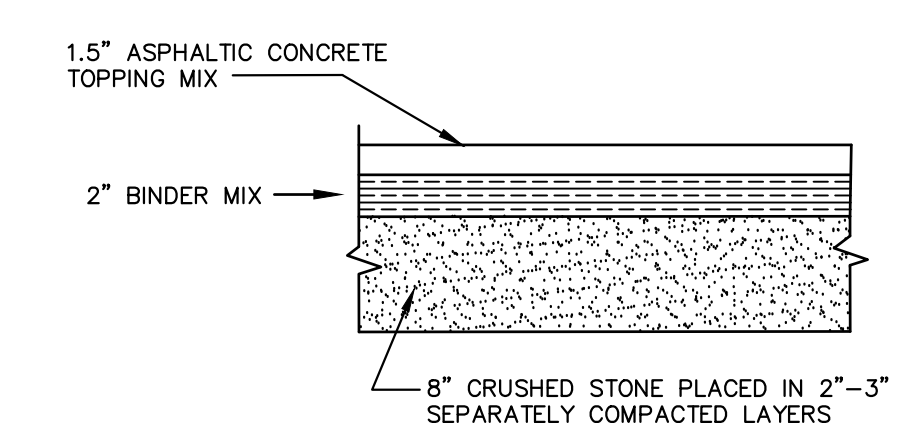
SECTION: CONCRETE RETAINING WALL



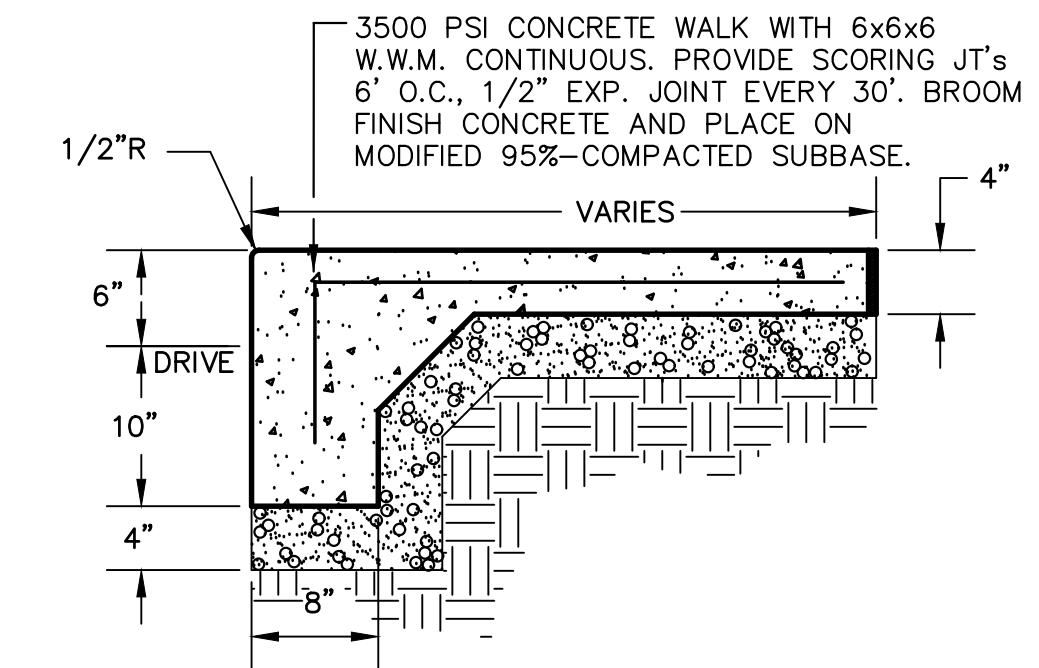
STANDARD POST CURB N.T.S.

- GENERAL NOTES
- EXPANSION JOINTS TO BE SPACED A MAXIMUM OF 100 FEET APART OR AS DIRECTED BY THE ENGINEER.
 - EXPANSION JOINTS WILL ALSO BE REQUIRED AT TANGENT POINTS, RAMPS, AND INLETS.
 - CONTRACTION JOINTS ARE TO BE CUT INTO CURB AND GUTTER EVERY 10 FEET TO A DEPTH OF D/4, WHERE D EQUALS THE THICKNESS OF THE SECTION. THE SPACING OF 10 FEET MAY BE REDUCED AT CLOSURES BUT NO SECTION OF CURB SHALL BE LESS THAN 10 FEET.
 - COST OF JOINTS TO BE INCLUDED IN THE UNIT BID PRICE FOR CONCRETE CURB.

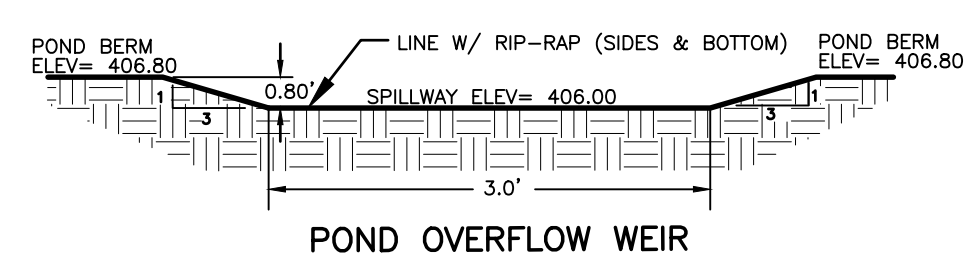
HEAVY-DUTY PAVEMENT DETAIL



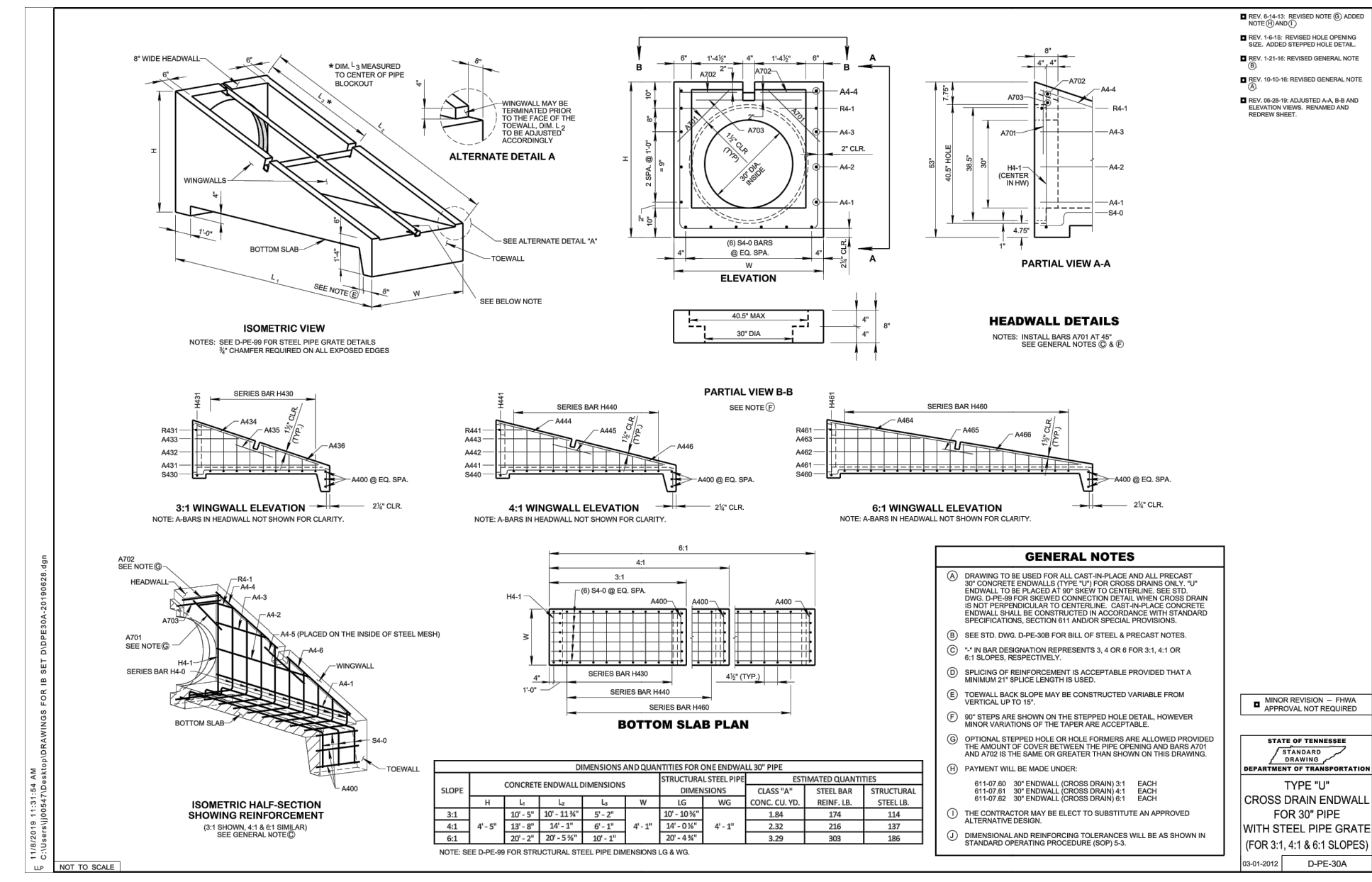
HEAVY-DUTY PAVEMENT DETAIL



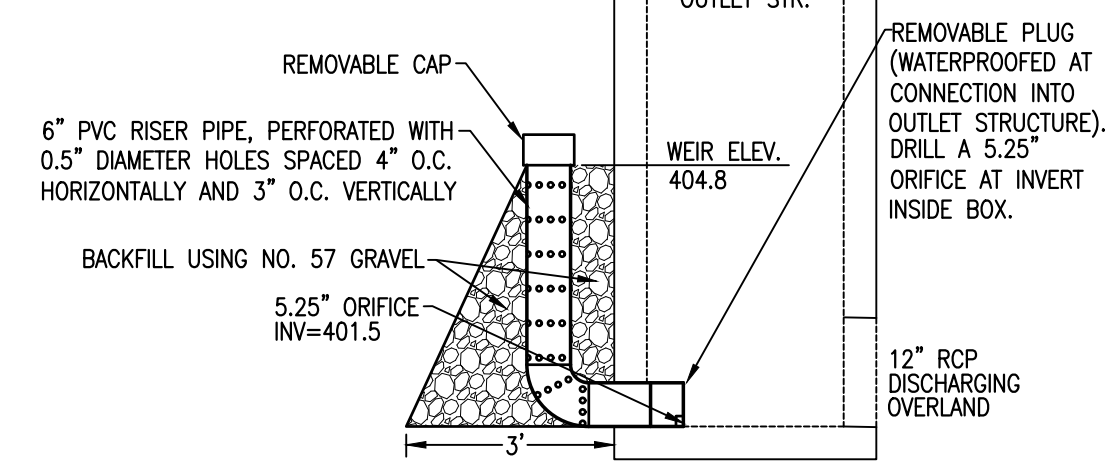
SIDEWALK DETAIL



POND OVERFLOW WEIR

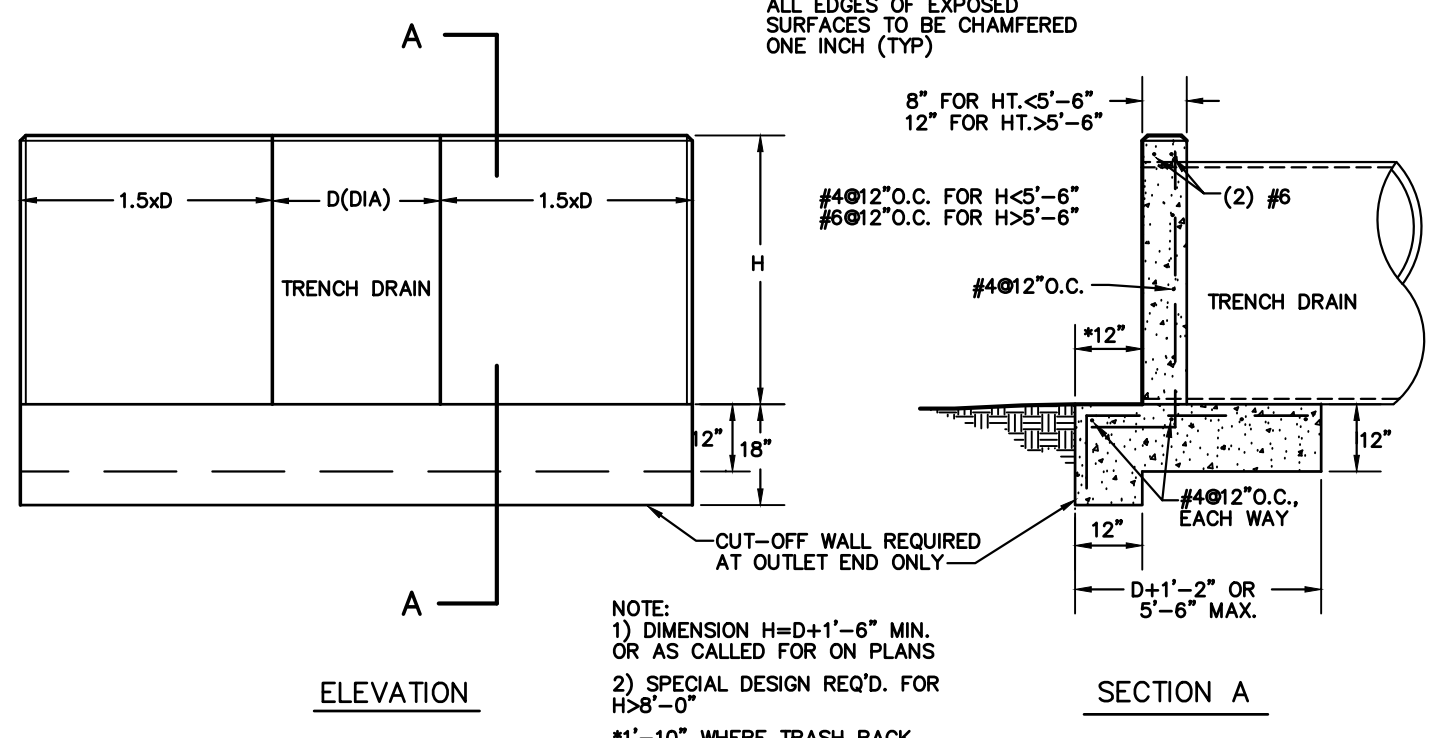


TRENCH DRAIN HEADWALL

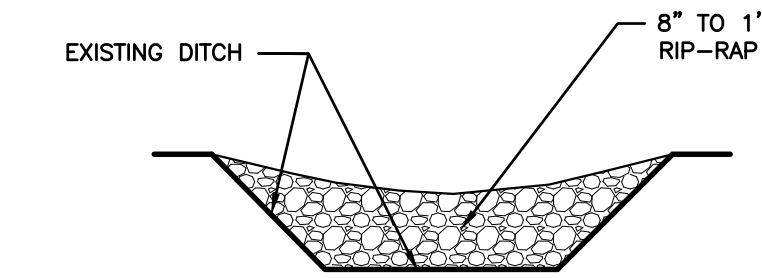


- ANTI-CLOGGING DEVICE FOR OUTLET STRUCTURE
- INSPECT TWICE WEEKLY DURING CONSTRUCTION.
 - REPAIR WHEREVER GRAVEL IS DAMAGED.
 - REMOVE SEDIMENT WHEN IT REACHES 1/2 THE HEIGHT OF THE GRAVEL BACKFILL AND REPLACE GRAVEL & FABRIC.
 - GRAVEL & FILTER FABRIC TO REMAIN IN PLACE & REPAIRED AS NEEDED THROUGHOUT THE CONSTRUCTION PROCESS.
 - FILTER FABRIC AND STONE SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE HAS BEEN STABILIZED.

OUTLET STRUCTURE 1 (OUT1) N.T.S.

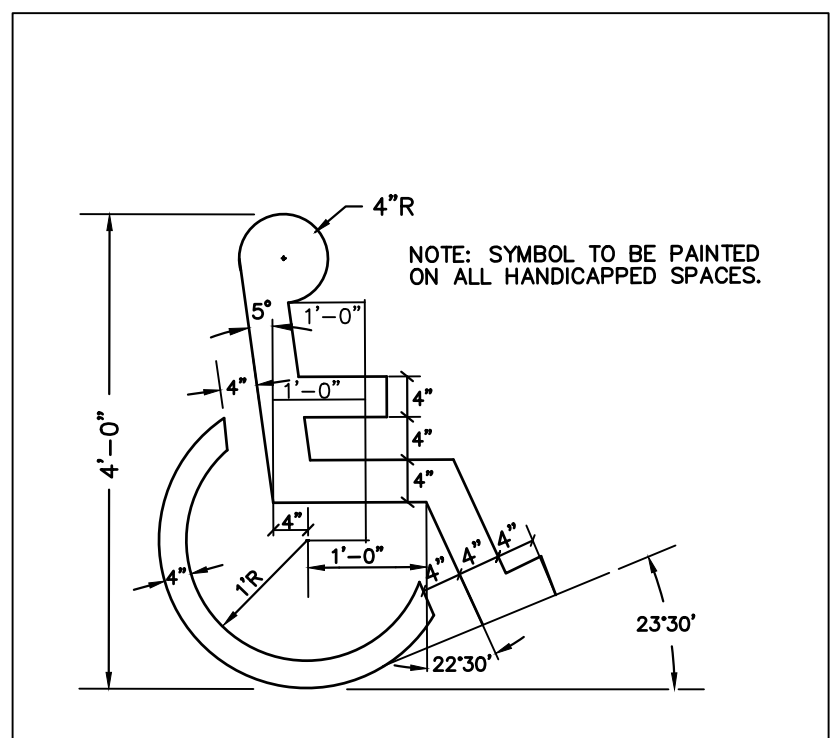


TRENCH DRAIN HEADWALL

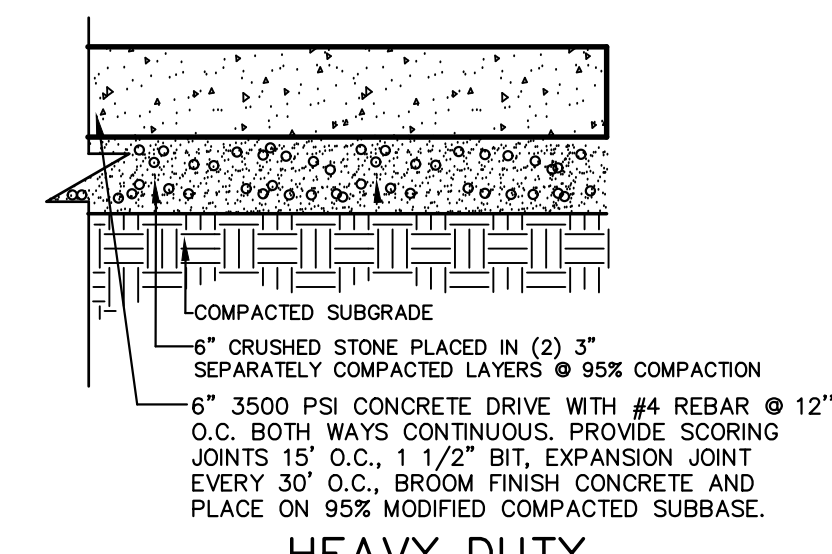


- MAINTENANCE NOTES:
- INSPECT SEDIMENT BUILDUP BEHIND CHECK DAM AND SIGNS OF EROSION AROUND THE CHECK DAM AFTER EACH RAIN.
 - REMOVE ACCUMULATED SEDIMENT WHEN REACHES 1/2 THE SUMP DEPTH BY LIFTING THE FILTER FABRIC AND HAND SHOVELING OR BACK HOING THE SILT.

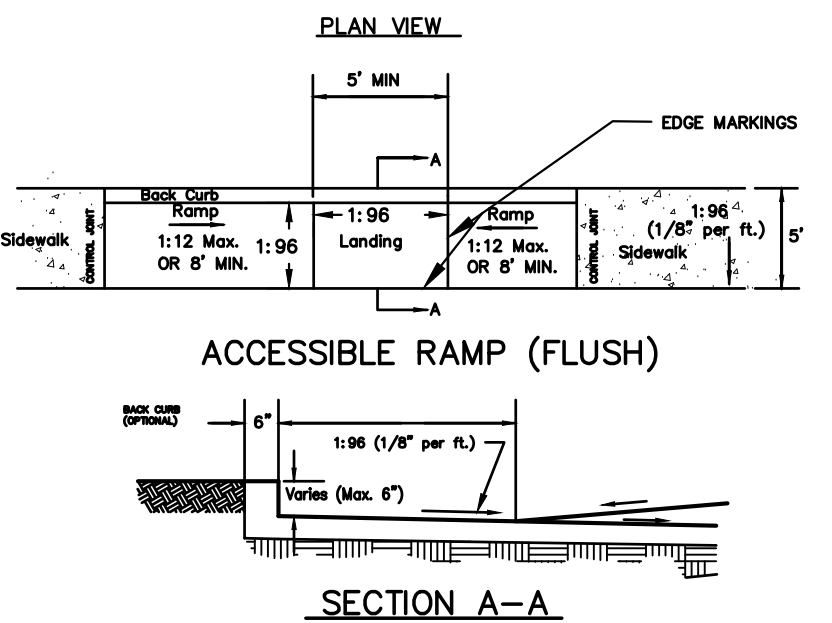
ROCK CHECK DAM



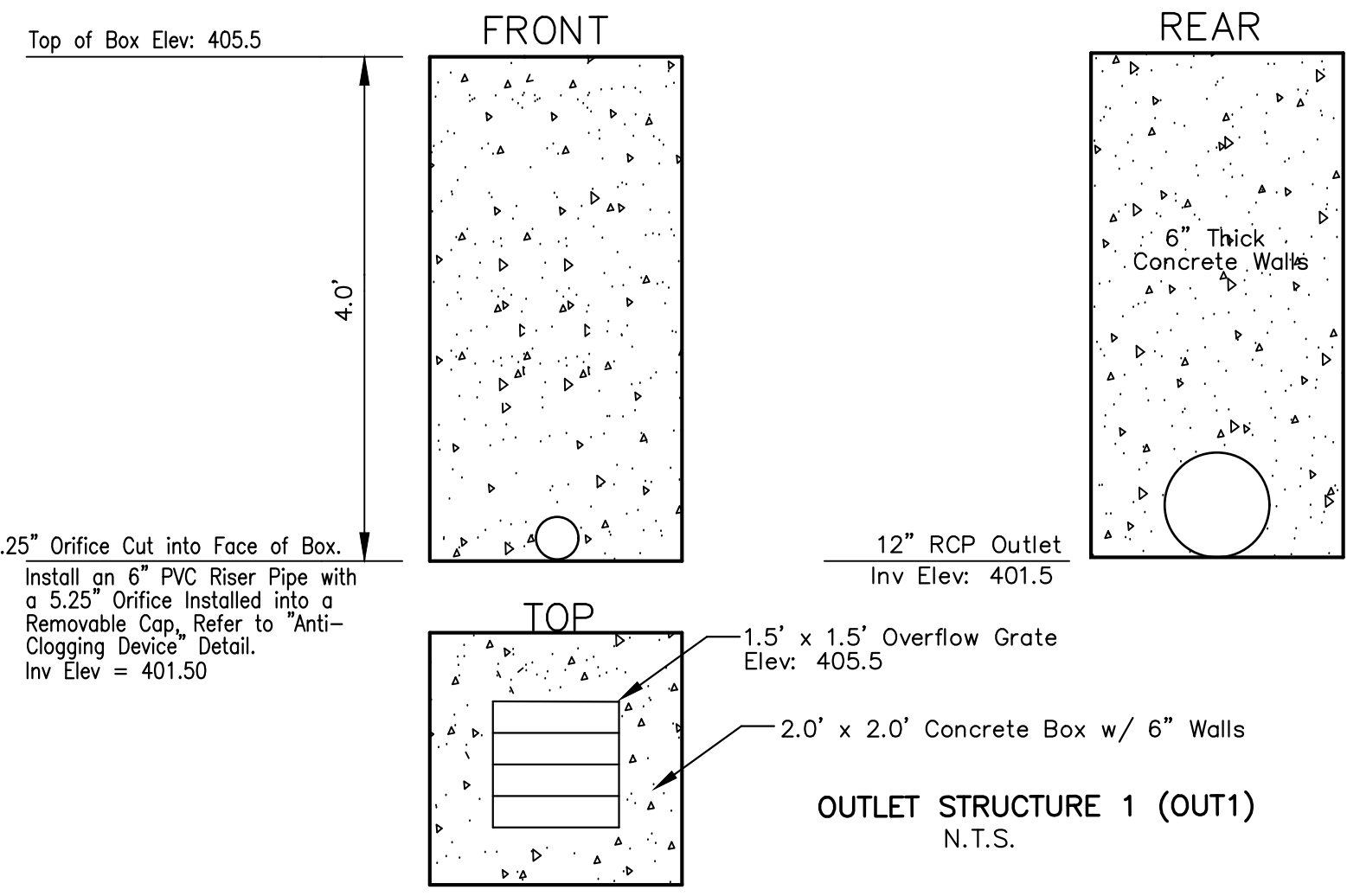
PAINTED HANDICAP SYMBOL



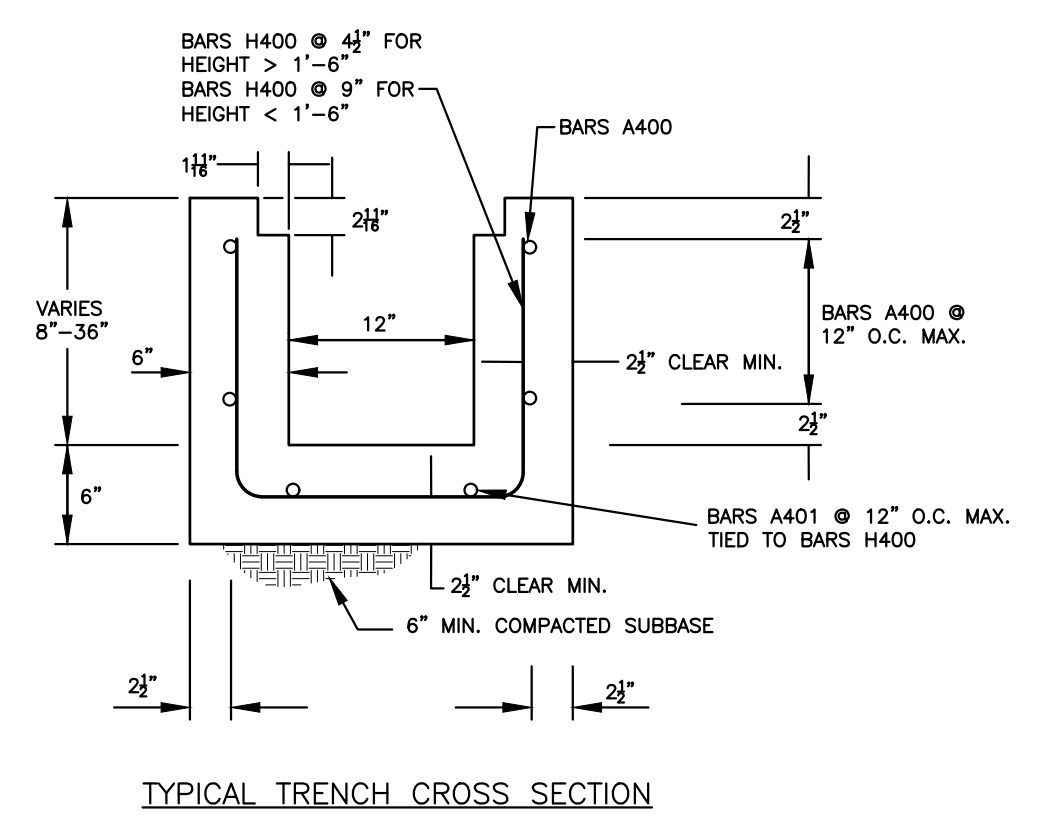
HEAVY DUTY CONCRETE DETAIL



ACCESSIBLE RAMP (FLUSH)

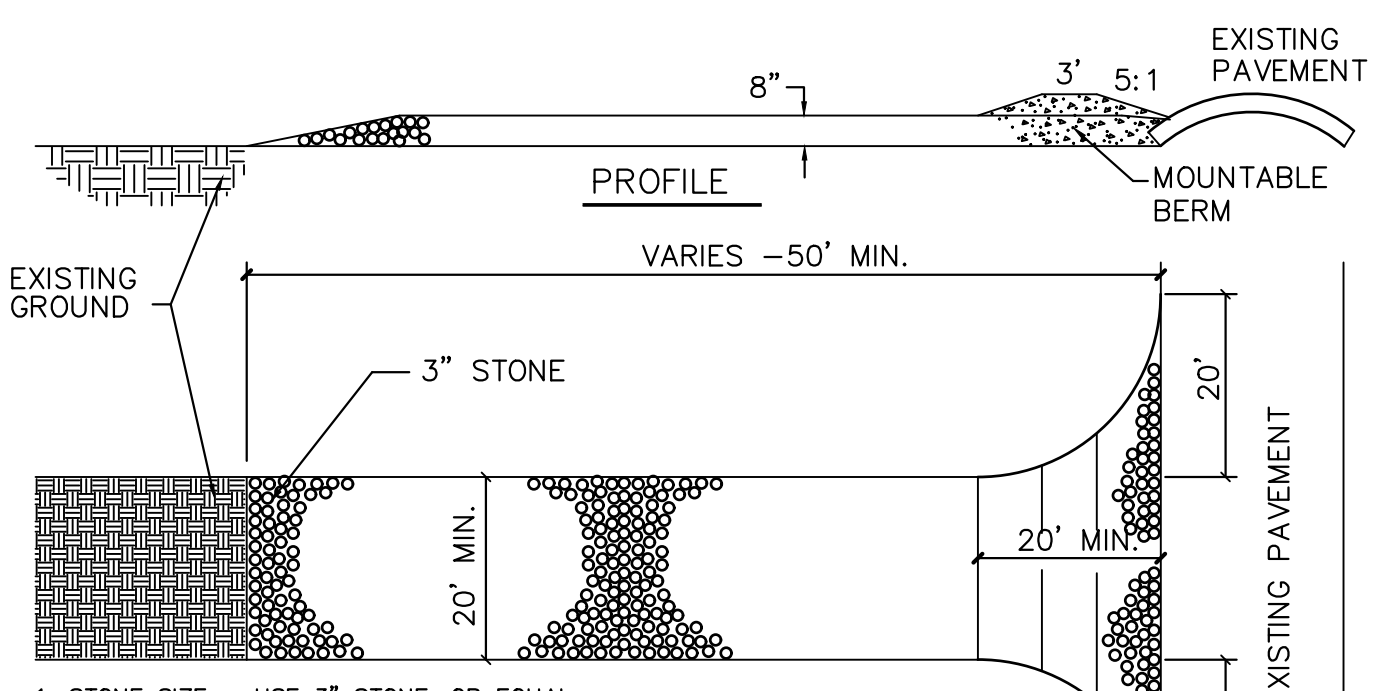


OUTLET STRUCTURE 1 (OUT1) N.T.S.

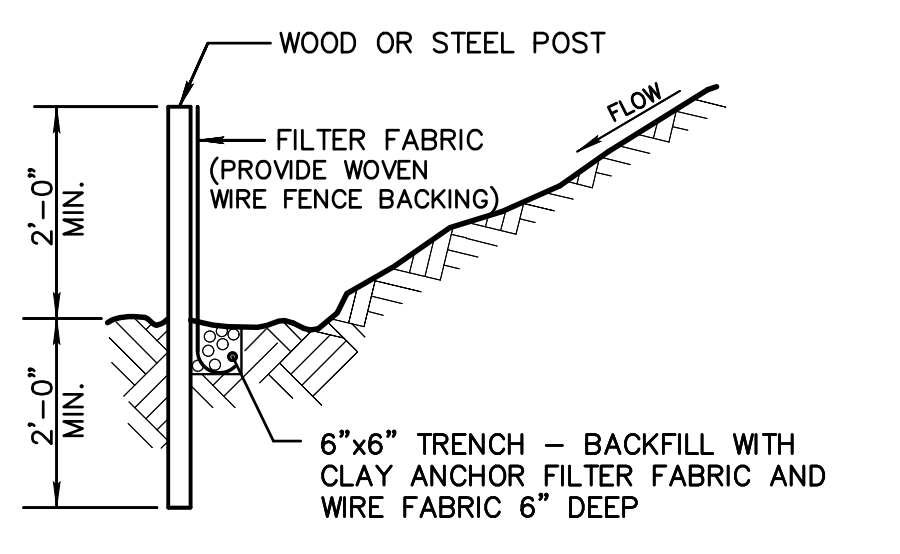


TRENCH DRAIN DETAIL NOT TO SCALE

TRENCH DRAIN HEADWALL

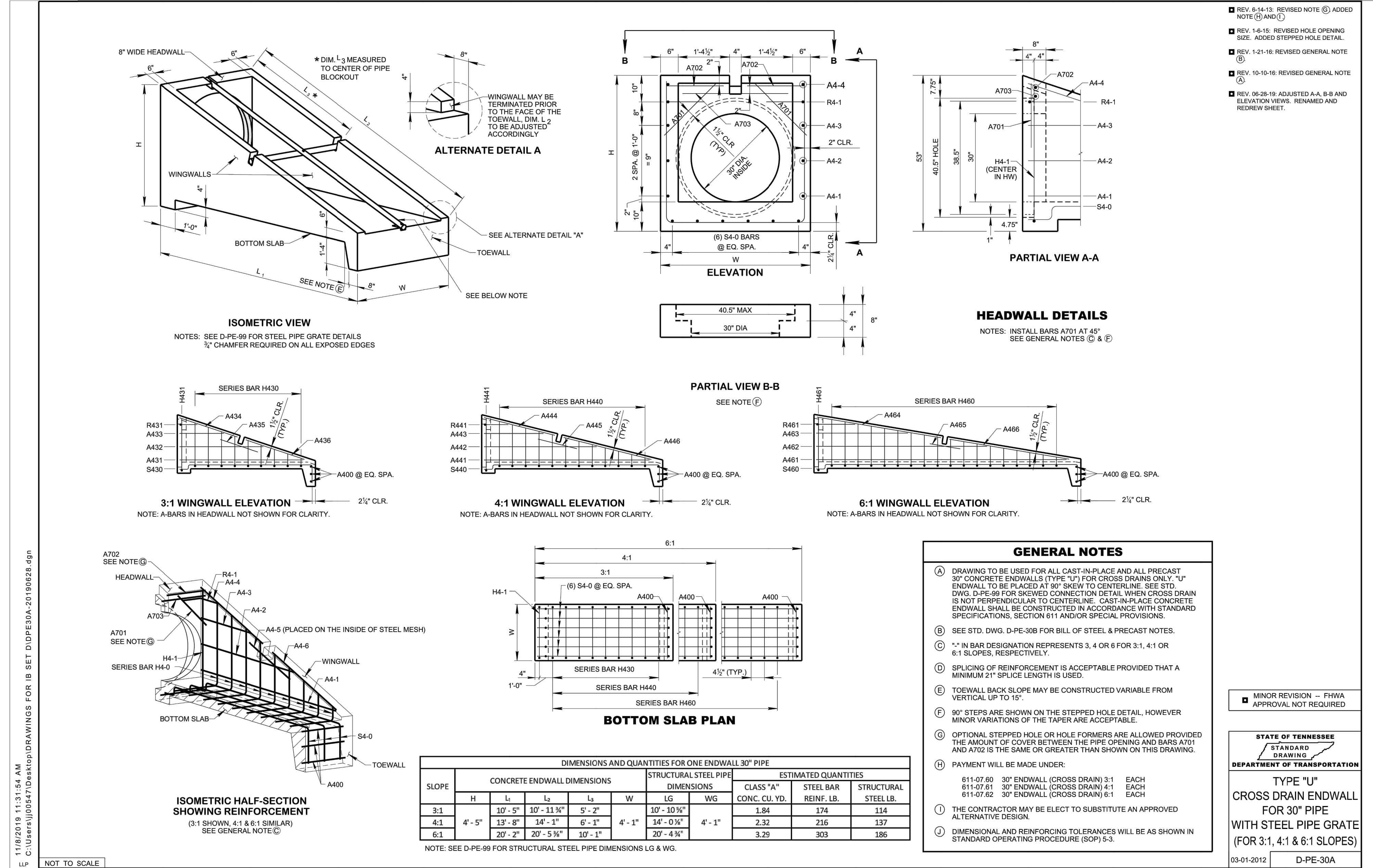
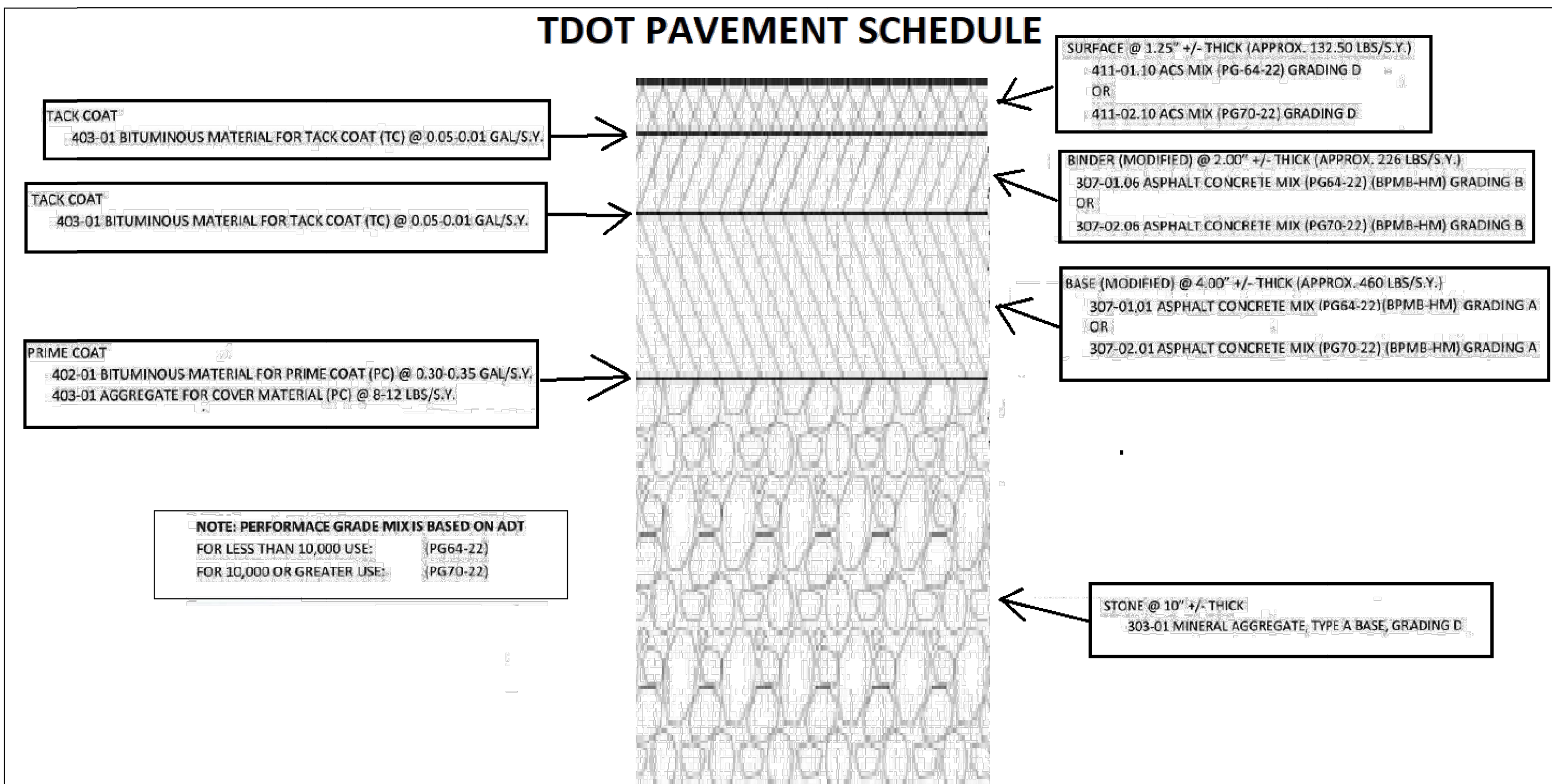
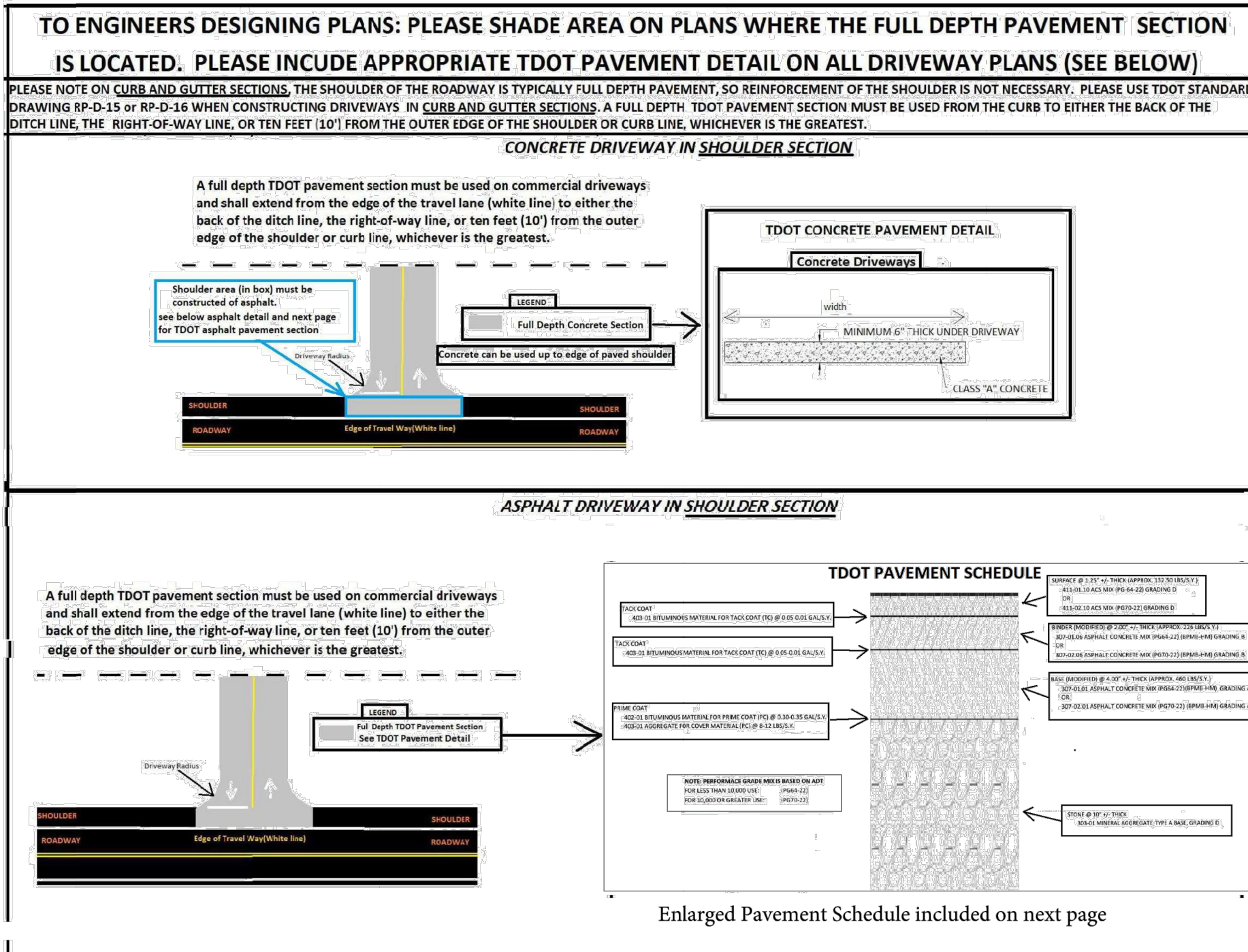
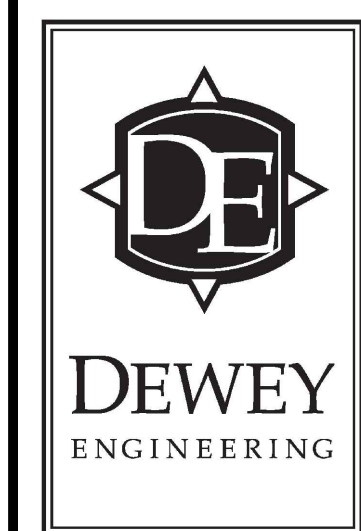


TEMPORARY CONSTRUCTION ENTRANCE NOT TO SCALE



SILT FENCE DETAIL NOT TO SCALE

- STONE SIZE - USE 3" STONE, OR EQUAL
- MIN. LENGTH - 50 FEET
- MIN. THICKNESS - EIGHT(8) INCHES
- WIDTH - TWENTY(20) FOOT MINIMUM
- FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE
- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.



DIMENSIONS AND QUANTITIES FOR ONE ENDWALL 30" PIPE

SLOPE	CONCRETE ENDWALL DIMENSIONS					STRUCTURAL STEEL PIPE DIMENSIONS		ESTIMATED QUANTITIES		
	H	L ₁	L ₂	L ₃	W	LG	WG	CLASS "A" CONC. CU. YD.	STEEL BAR REINF. LB.	STRUCTURAL STEEL LB.
3:1	10'-5"	10'-11 3/4"	5'-2"	10'-10 3/4"	4'-1"	4'-1"	1.84	174	114	
4:1	13'-8"	14'-1"	6'-1"	14'-0 3/4"	4'-1"	4'-1"	2.32	216	137	
6:1	20'-2"	20'-5 3/4"	10'-1"	20'-4 3/4"	4'-1"	4'-1"	3.29	303	186	

NOTE: SEE D-PE-99 FOR STRUCTURAL STEEL PIPE DIMENSIONS LG & WG.

NOTES

THE LANDSCAPE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UTILITIES.

THE LANDSCAPE CONTRACTOR SHALL FINE GRADE ALL PLANTING AREAS.

ALL PLANTING AREAS SHALL BE FERTILIZED WITH 12#/1000 S.F. OF 10-10-10 FERTILIZER.

ALL PLANTING BEDS SHALL HAVE A MINIMUM OF 3" DEPTH OF SHREDDED BARK MULCH. FINELY GROUND, NO NUGGETS, 1/2" DIAMETER MAX. PIECES. REFUSE & STONE FREE.

THE LANDSCAPE CONTRACTOR SHALL VERIFY ALL MATERIAL QUANTITIES.

THE LANDSCAPE CONTRACTOR NOTIFY THE LANDSCAPE ARCHITECT OF ANY ARCHITECTURAL FEATURES SUCH AS WALKWAYS, WINDOWS, OR BUILT ELEMENTS WHICH CONFLICT WITH THE APPROVED PLANTING PLAN.

DISTURBED AREAS SHALL BE PLANTED WITH TURF AS INDICATED ON THE MATERIALS SCHEDULE.

NO PLANT MATERIALS SHOULD BE SUBSTITUTED WITHOUT AUTHORIZATION.

PLANT SIZES SHOWN ARE MINIMUMS REQUIRED BY THE LOCAL MUNICIPALITY AND MATERIALS SHOWN HAVE BEEN SELECTED SPECIFICALLY FOR THIS PROJECT.

ALL WIRE BASKETS SHALL BE COMPLETELY REMOVED AND DISPOSED OF. BURLAP SHOULD BE REMOVED OR PUNCTURED IN AT LEAST 5 PLACES. REMOVE ALL TWINE FROM BURLAP MATERIALS.

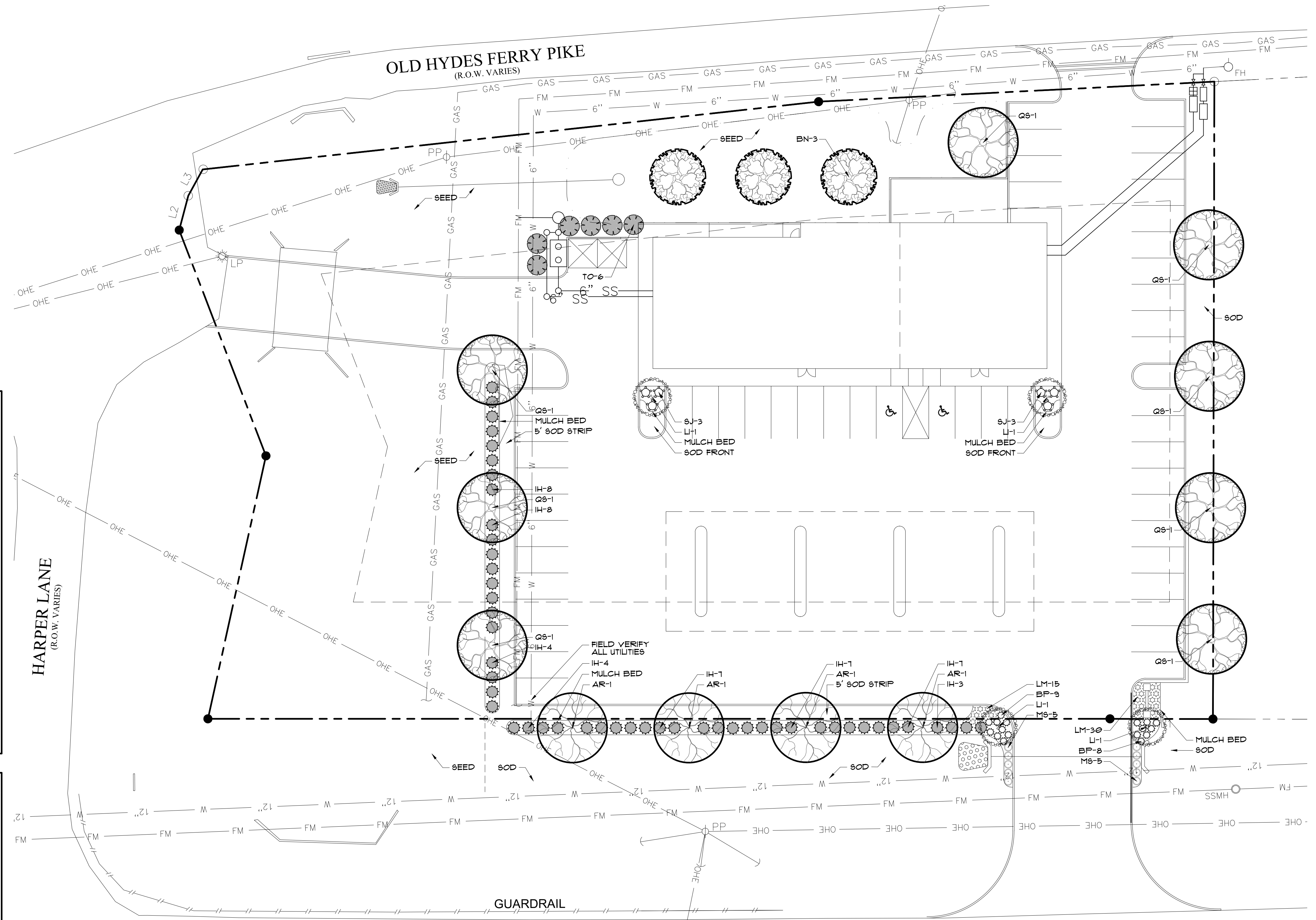
STAKE TREES IN PLACE PER DETAIL - WIRE OR ROPE GUYING IS NOT ALLOWED.

NO CANOPY TREE LOCATED WITHIN 15' OF AN OVERHEAD UTILITY, POWER LINE, OR LIGHT POLE.

NO CANOPY TREE SHALL BE LOCATED WITHIN A GAS, WATER, SEWER, UNDERGROUND ELECTRIC, CABLE, FIBER, OR PUBLIC UTILITY EASEMENT WITHOUT SIGNING OF A RELEASE WAIVER AND APPROVAL BY THE EASEMENT HOLDER.

MATERIALS SCHEDULE

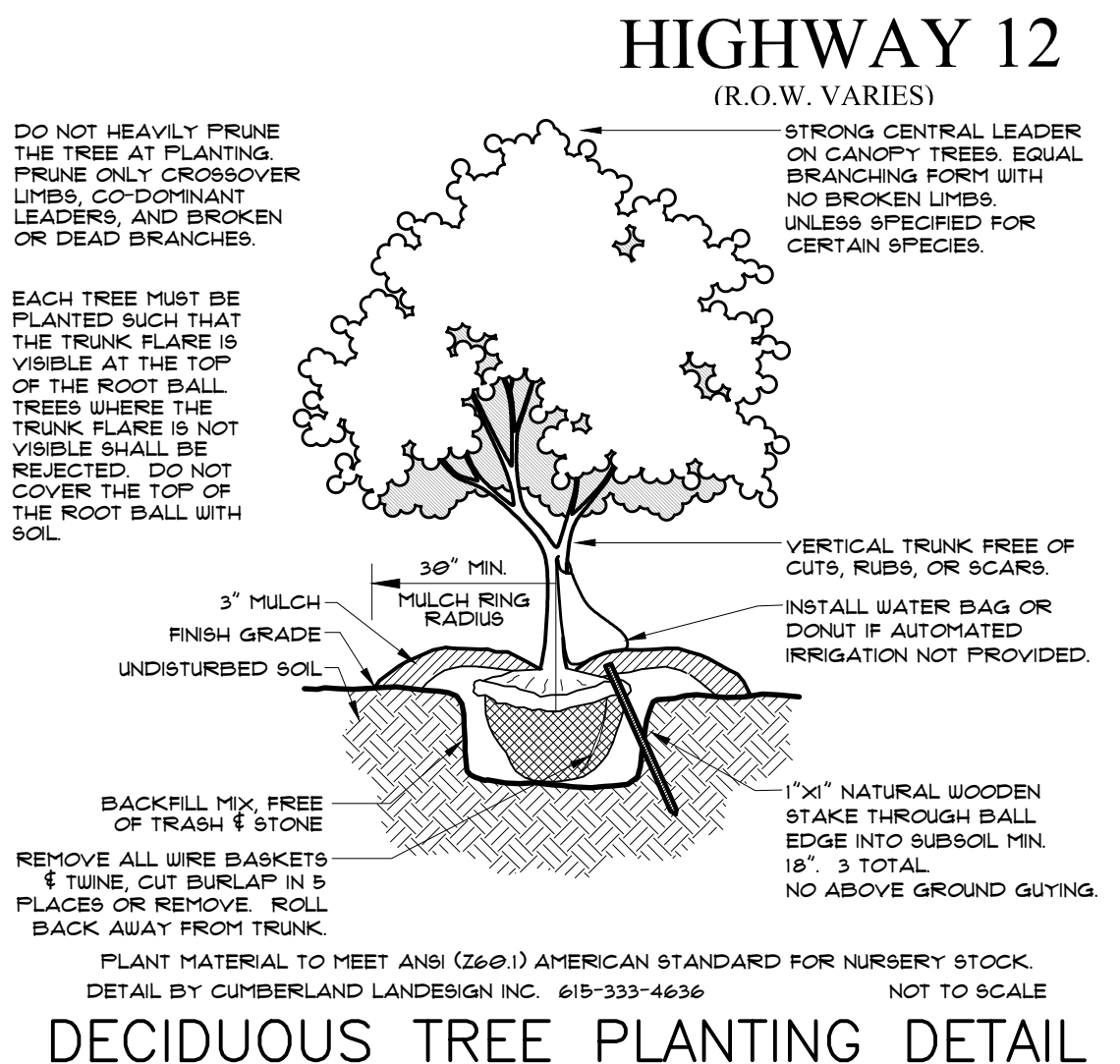
KEY	AMOUNT	SCIENTIFIC NAME/ COMMON NAME	HEIGHT	SPREAD	TRUNK	NOTES
TREES						
AR	4	Acer rubrum 'Armstrong'/ Armstrong Red Maple	14'-16'	4'-5'	3 1/2"	Matched 5' Clear
BN	3	Betula nigra/ River Birch	7'-9'	4'-5'	3 Cane, 1.5" Each	
LI	4	Lagerstroemia indica/ Crapemyrtle	6' Min.	2'-3'	3 Cane, 1" Each	
QS	8	Quercus acutissima/ Sawtooth Oak	14'-16'	6'-7'	2 1/2"	Matched 5' Clear
SHRUBS						
BP	17	Berberis thunbergii 'Goruzam'/ Golden Ruby Barberry	12" Min.	15"-18"	F.T.B.	Or Equal
IH	49	Ilex crenata 'Helleri'/ Heller's Japanese Holly	24" Min.	18"-24"	F.T.B.	Or Equal
SJ	6	Spiraea x 'Zelda'/ Solar Flair Spiraea	18" Min.	15"-18"	F.T.B.	Or Equal
TO	6	Thuja occidentalis 'Smaragd'/ Emerald Green Arborvitae	60" Min.	15"-18"	F.T.B.	
ORNAMENTAL GRASS						
MS	10	Pennisetum alopecuroides 'Moudry'/ Black Fountain Grass	1	Gallon Containers		
GROUND COVER / TURF						
LM	45	Liriope muscarii/ Monkeygrass	1	Gallon, divide bibs, install plugs at 18" 18" O.C. in triangular pattern.		
SOD						
		Rebel II Fine Bladed Sod		Install where shown.		
SEED						
		Rebel II Fine Bladed Fescue		Seed at 5 lbs per 1,000 sf Install w/ weed free Straw		
MISCELLANEOUS						
		Mulch Bed		Hardwood Bark Mulch		Minimum 3" depth throughout.
NOTES						
		FTB = Full To Bottom				
		THE LANDSCAPE CONTRACTOR SHALL NOT MAKE SUBSTITUTIONS				



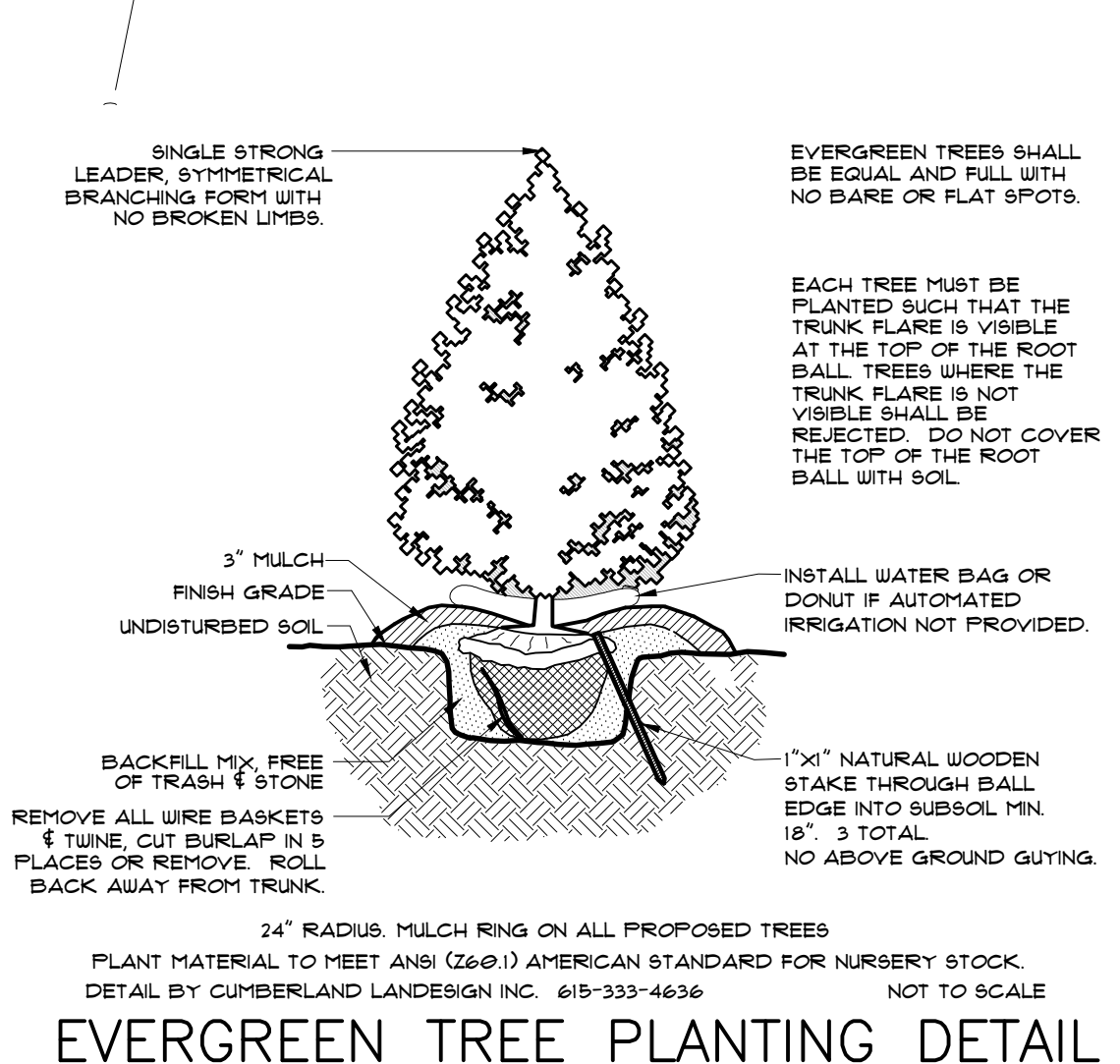
REQUIREMENTS

VEHICLE USE AREA:	35,500 SF	
LANDSCAPE AREA (10%):	3,550 SF	
	REQUIRED	PROVIDED
1 TREE PER 250 SF: (3,550 / 250)	15	15
HIGHWAY 12 STREET TREES: (200 / 40LF)	5	5
STREET SHRUB SCREENING: (125 / 5LF)	40	47
HARPER LANE STREET TREES: (125 / 40LF)	4	4
STREET SHRUB SCREENING: (125 / 5LF)	25	26

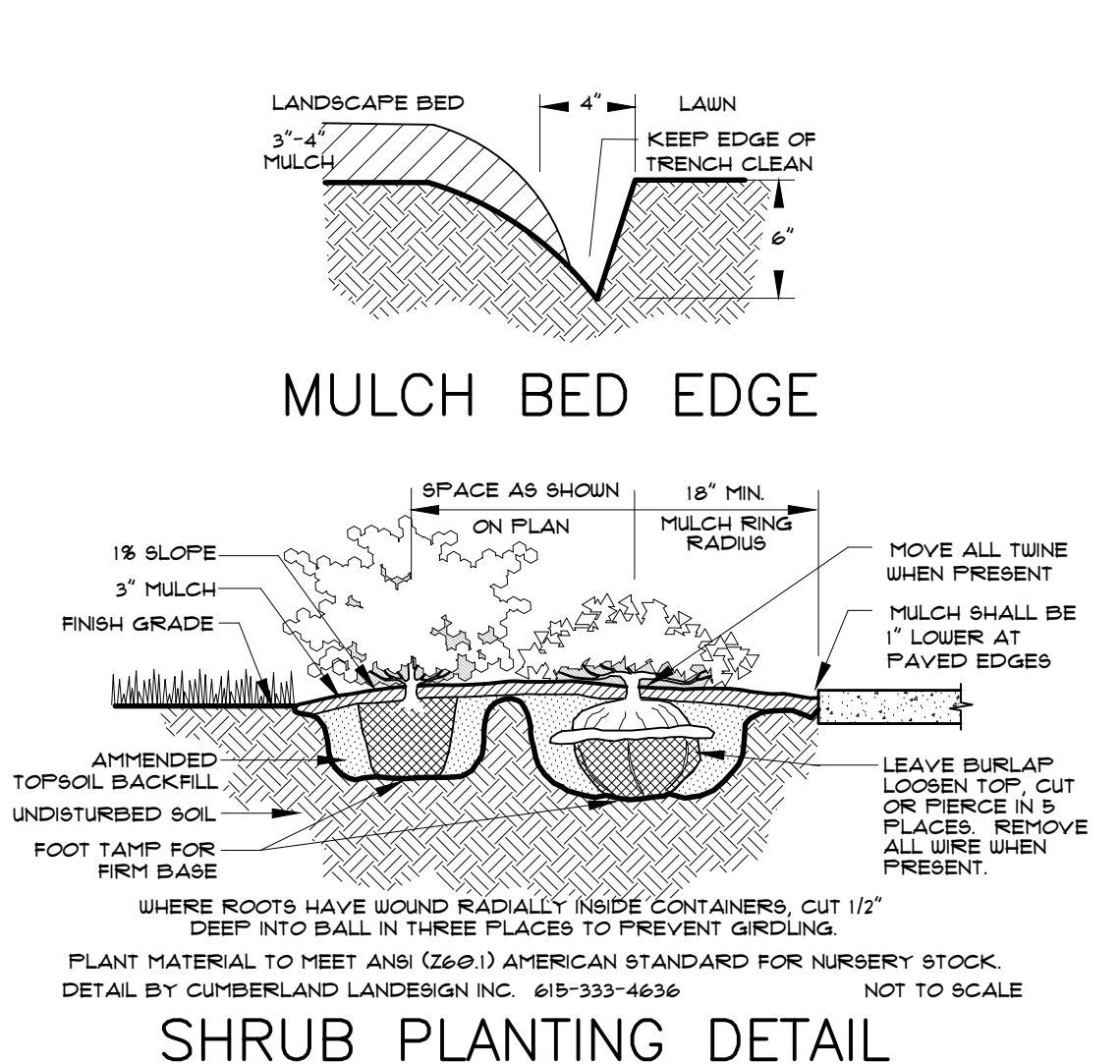
NO EXISTING TREES TO REMOVE OR TO BE PRESERVED
BUFFERYARDS NOT PROPOSED AT UNDEVELOPED PARCEL



DECIDUOUS TREE PLANTING DETAIL

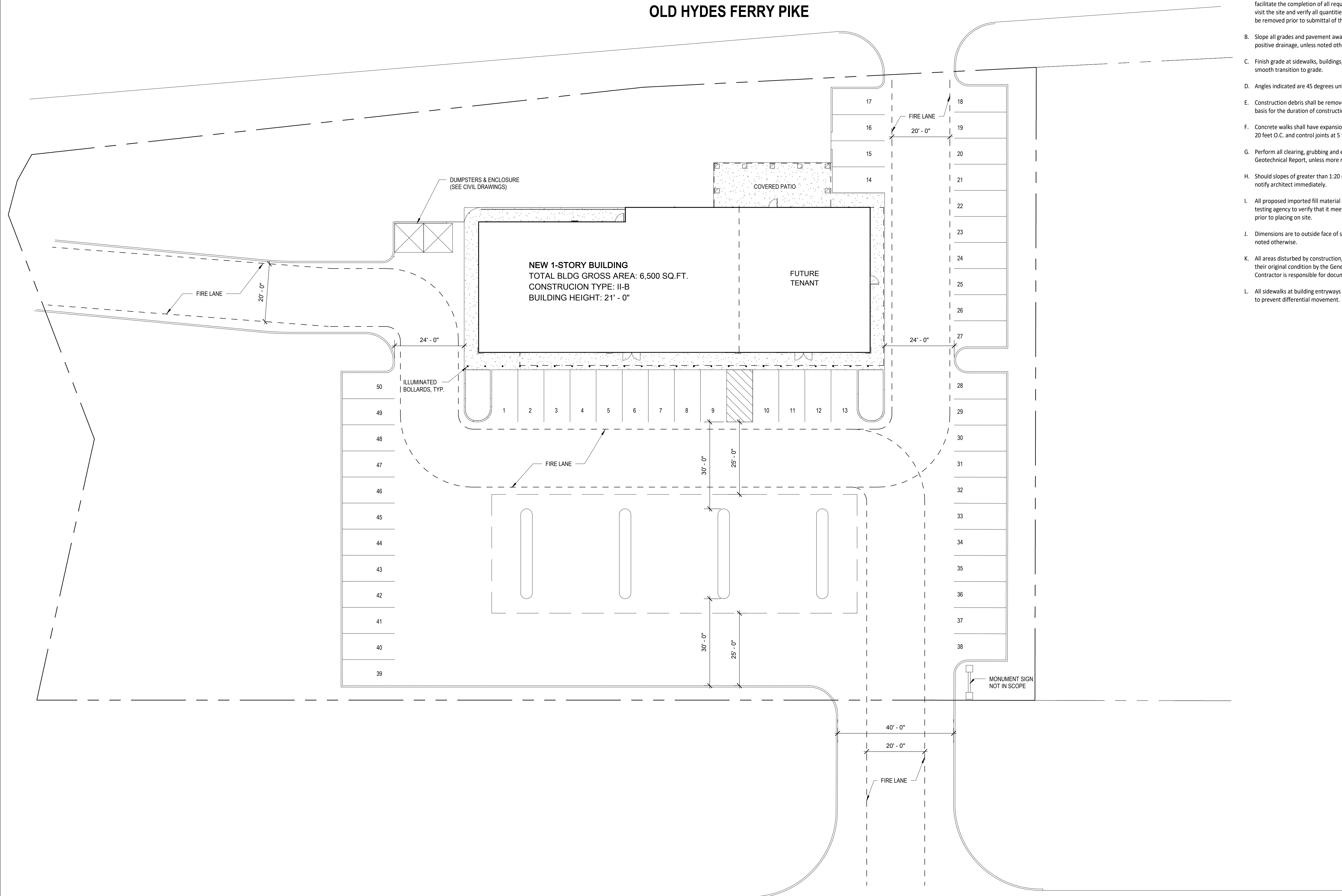


EVERGREEN TREE PLANTING DETAIL



SHRUB PLANTING DETAIL

OLD HYDES FERRY PIKE



HIGHWAY 12

SITE PLAN GENERAL NOTES

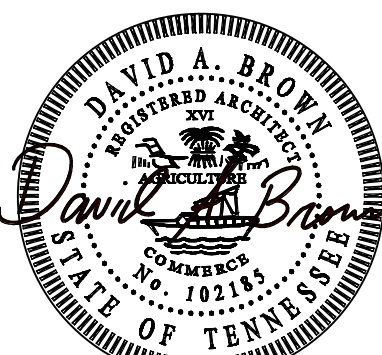
- A. Contractor shall remove all existing vegetation, site improvements, etc. whether or not specifically indicated on the drawings to facilitate the completion of all required new work. Contractor shall visit the site and verify all quantities and items that are required to be removed prior to submittal of this proposal.
- B. Slope all grades and pavement away from building(s) to provide positive drainage, unless noted otherwise.
- C. Finish grade at sidewalks, buildings, etc., as required to provide smooth transition to grade.
- D. Angles indicated are 45 degrees unless noted otherwise.
- E. Construction debris shall be removed from the site on a continuing basis for the duration of construction.
- F. Concrete walks shall have expansion joints at a maximum spacing of 20 feet O.C. and control joints at 5 feet O.C., unless noted otherwise.
- G. Perform all clearing, grubbing and earthwork in accordance with the Geotechnical Report, unless more restrictive requirements exist.
- H. Should slopes of greater than 1:20 (5%) occur at pavement locations, notify architect immediately.
- I. All proposed imported fill material shall be tested by a qualified testing agency to verify that it meets all specification requirements prior to placing on site.
- J. Dimensions are to outside face of stem walls/foundations unless noted otherwise.
- K. All areas disturbed by construction, staging, etc. shall be restored to their original condition by the General Contractor. General Contractor is responsible for documenting original condition.
- L. All sidewalks at building entryways shall be "keyed" into building slab to prevent differential movement.

ASHLAND CITY C-STORE

DHAVAL PATEL
0 Old Hydes Ferry Pike, Ashland City, TN 37015

CLIENT CONTACT:
DHAVAL PATEL
(615) 588-5887 | dhawalom@gmail.com

MERIDIAN ARCHITECTURE



10.20.2021

nashville, tennessee
e: office@meridiantn.com
t: 615.390.2236
www.meridiantn.com

REVISIONS:

DELTA	DESCRIPTION	DATE
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DATE OF ISSUE: 10.20.2021

MA PROJECT NO: 0214-21

PROJECT PHASE: CD

DRAWN BY: Author

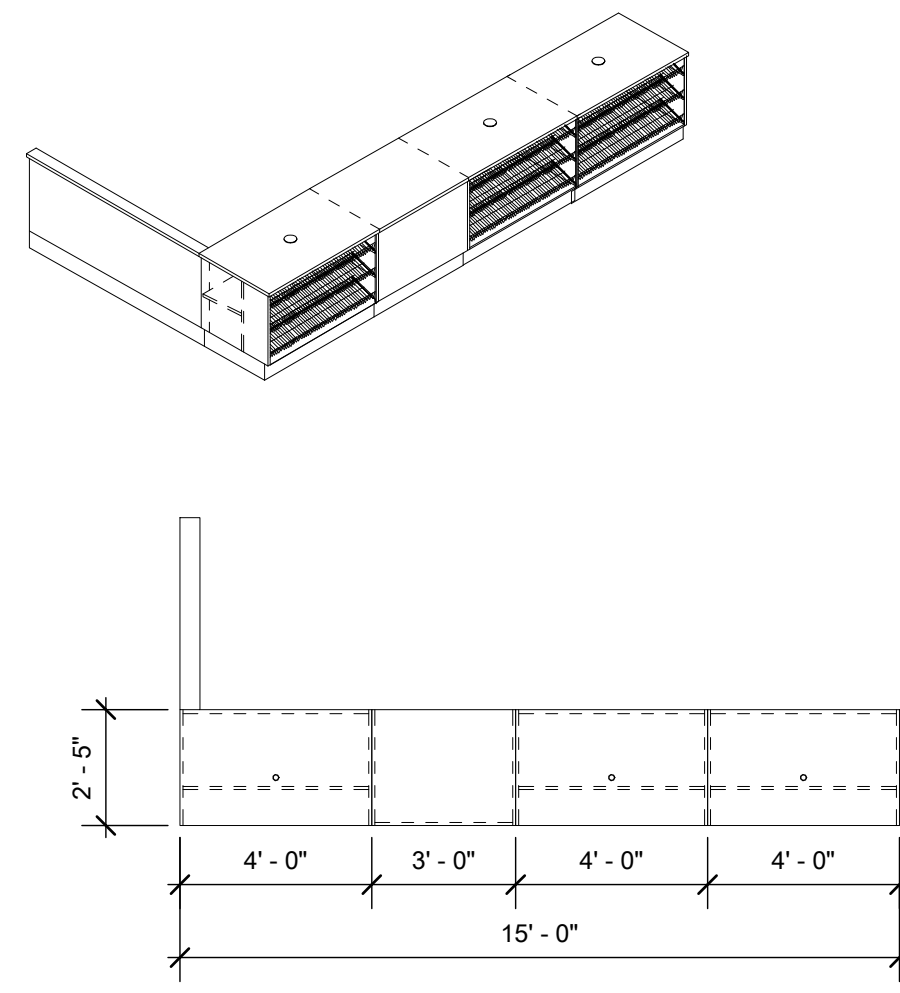
ARCHITECTURAL SITE PLAN

AS102

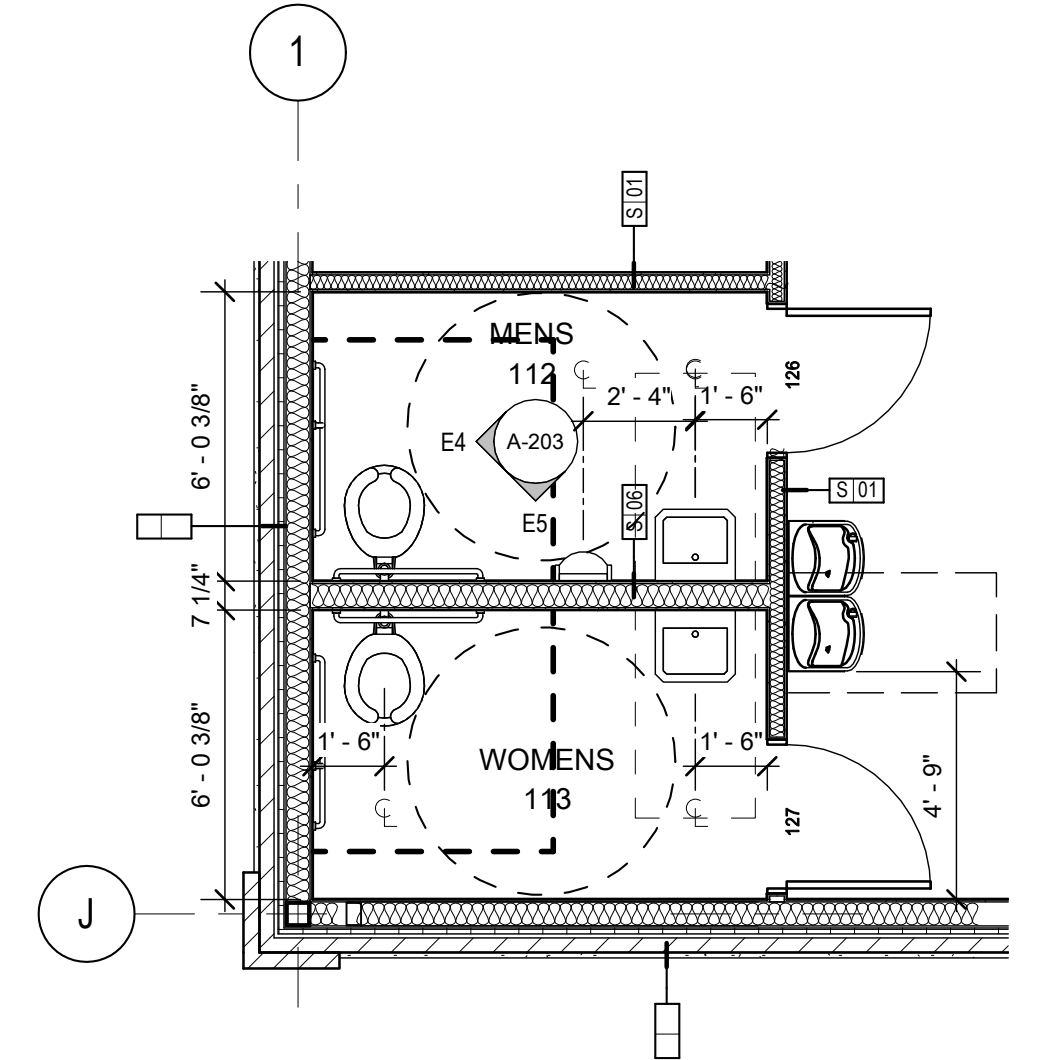
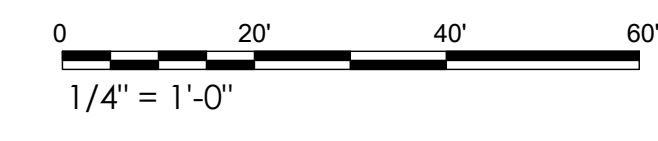
ITEM # 4.

A5 ARCHITECTURAL SITE PLAN
1/16" = 1'-0" REF A5 / A-201

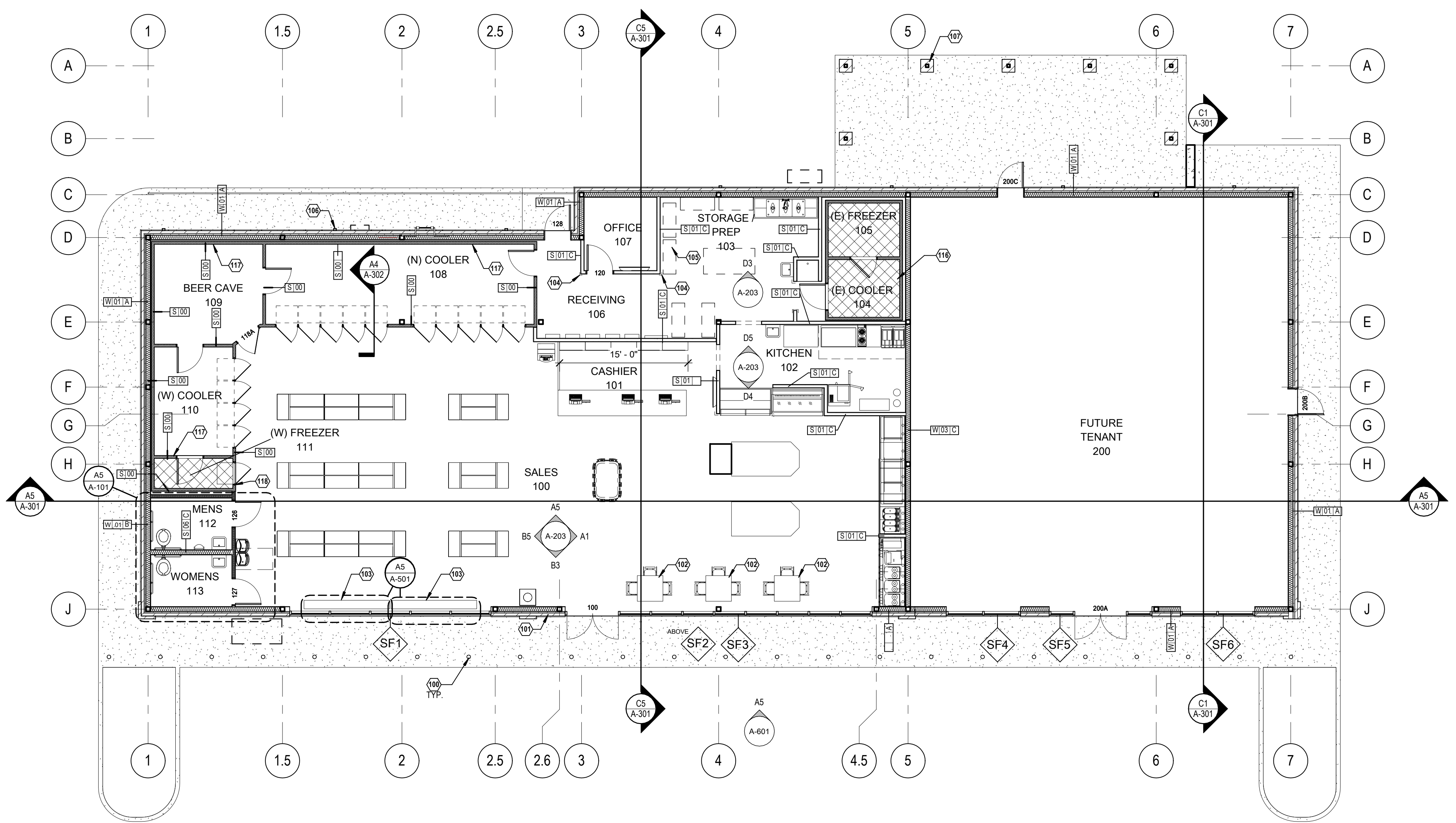
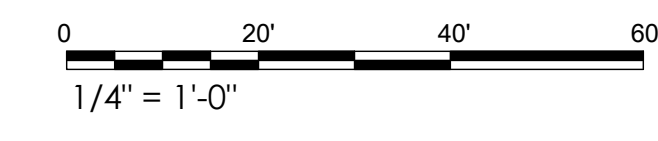
PARKING SCHEDULE	
TYPE	PARKING COUNT
PARKING SPACES REQUIRED	29
PARKING SPACES PROVIDED	50
ACCESSIBLE PARKING SPACES	2 (incl. 1 VAN ACCESSIBLE SPACE)



ENLARGED CASHIER COUNTER



ENLARGED PLAN - RESTROOMS



FIRST FLOOR - NOTED



GENERAL FLOOR PLAN NOTES

- A. Keynotes and legends are typical for all floor plan sheets, and may not apply to each sheet.
- B. Dimensions are to face of masonry, concrete and [studs OR gypsum board] and centerline of columns unless noted otherwise.
- C. See enlarged floor plans and details for specific locations of plumbing fixtures.
- D. Field verify all dimensions prior to fabrication of any cabinetry, frames, structural items, etc.
- E. Provide painted access panels in walls and ceilings at concealed items, such as valves, shock absorbers, controls, switches, etc., and any other items that may require access. It is the Contractor's responsibility to determine access panel locations.
- F. All guardrails and handrails shall be fabricated and installed in accordance with applicable codes, regulations, and AHJ.
- G. Seal all penetrations in fire rated assemblies as required by all applicable codes. Permanently label all penetrations and assemblies.
- H. Verify and coordinate all requirements for owner furnished items, prior to performance of any work that is to accommodate and interface with such items.
- I. All angles are increments of 45 degrees unless noted otherwise.
- J. Extend wall envelope insulation from floor line to meet roof insulation.
- K. Provide "Fry" reveal FDM 625-75 or equal at all gypsum board to masonry or concrete transitions.
- L. All frame walls to be Type [S01C OR CHOOSE TYPE] and all furring walls to be [F01E OR CHOOSE TYPE], unless noted otherwise.

LEGEND

- RECESSED SLAB: COORDINATE WITH COOLER / FREEZER MANUFACTURER
- CONCRETE

KEYNOTES - PLAN

- 100 ILLUMINATED BOLLARDS, TYP. REFER TO ELECT. DRAWINGS
- 101 EMERGENCY PUMP SHUTOFF SWITCH
- 102 CHAIRS & TABLE SEATING (OWNER SUPPLIED)
- 103 STANDING COUNTER (OWNER SUPPLIED)
- 104 STAINLESS STEEL CORNER GUARD, TYP.
- 105 STORAGE SHELVING (OWNER SUPPLIED)
- 106 DOWNSPOUT, TYP.
- 107 COLUMN, TYP.

(IF NOT KEYNOTED, SEE A-105)

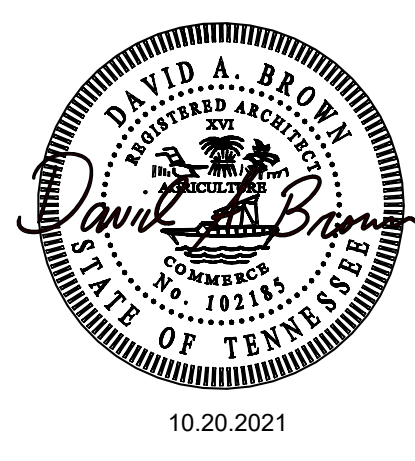
10/20/2021 2:10:27 PM MERIDIAN ARCHITECTURE 0214-21 / ASHLAND CITY C-STORE - DHAVAL PATEL / SCHEMATIC DESIGN / A-101- FIRST FLOOR PLAN

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DHAVAL PATEL
0 Old Hydes Ferry Pike, Ashland City, TN 37015

CLIENT CONTACT:
DHAVAL PATEL
(615) 588-5887 | dhaवालom@gmail.com

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10.20.2021

nashville, tennessee
e: office@meridiantn.com
t: 615.390.2236
www.meridiantn.com

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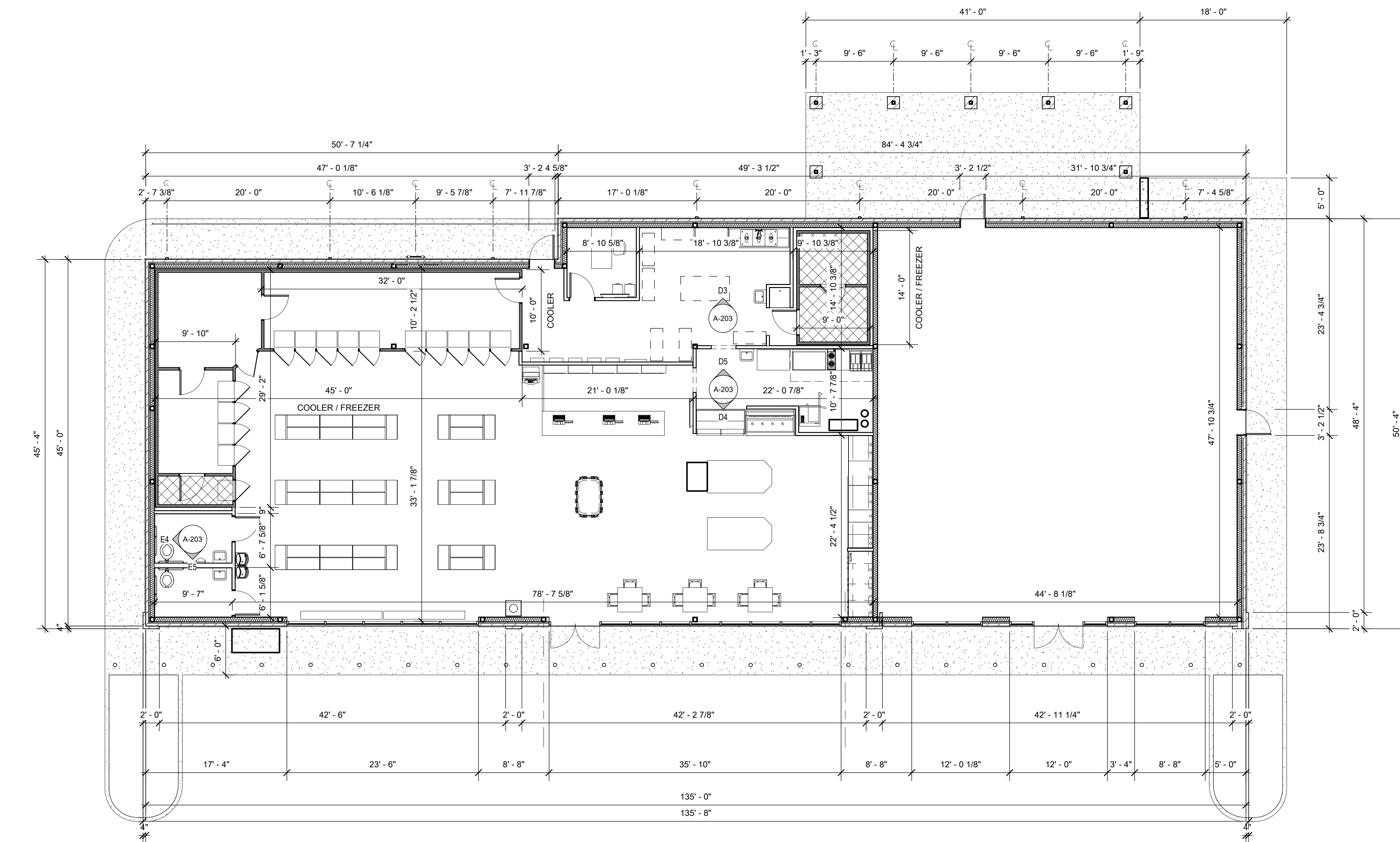
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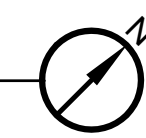
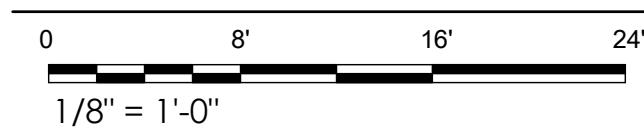
FIRST FLOOR PLAN

A-101

ITEM # 4



FIRST FLOOR - DIMENSIONED



GENERAL DIMENSION NOTES

- A. The contractor shall take field measurements and verify field conditions and shall carefully compare such field measurements, conditions, and other information known to the Contractor with the Contract Documents before commencing activities. Errors, inconsistencies or omissions discovered shall be reported to the Architect at once.
- B. The Contractor shall not scale drawings.
- C. Dimensions are not adjustable unless noted with plus/minus tolerance.
- D. Dimensions are indicated as follows unless otherwise noted:
- E. Columns - from centerline to centerline.
- F. Metal stud partition - from face of stud to face of stud.
- G. Wood stud partitions - from face of stud to face of stud.
- H. Concrete - from face of concrete to face of concrete.
- I. Masonry - from face of masonry to face of masonry.
- J. Exterior wall - from exterior face of wall to interior face of wall.
- K. Interior elevation - from finished floor to finished ceiling or finished wall to finished wall.
- L. Door shall be located 6" from clear opening to adjacent wall unless otherwise noted.
- M. All floor to floor and ceiling heights shown on drawings are from finish floor.

GENERAL FLOOR PLAN NOTES

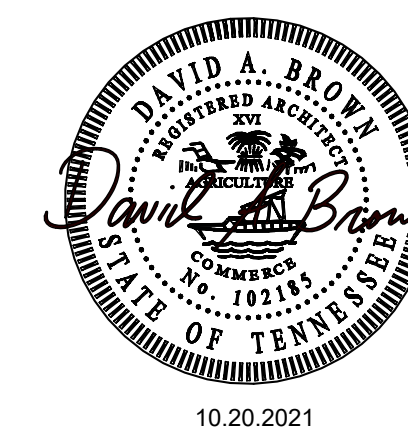
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- D. Field verify all dimensions prior to fabrication of any cabinetry, frames, structural items, etc.
- E. Provide painted access panels in walls and ceilings at concealed items, such as valves, shock absorbers, controls, switches, etc., and any other items that may require access. It is the Contractor's responsibility to determine access panel locations.
- F. All guardrails and handrails shall be fabricated and installed in accordance with applicable codes, regulations, and AHJ.
- G. Seal all penetrations in fire rated assemblies as required by all applicable codes. Permanently label all penetrations and assemblies.
- H. Verify and coordinate all requirements for owner furnished items, prior to performance of any work that is to accommodate and interface with such items.
- I. All angles are increments of 45 degrees unless noted otherwise.
- J. Extend wall envelope insulation from floor line to meet roof insulation.
- K. Provide "Fry" reveal FDM 625-75 or equal at all gypsum board to masonry or concrete transitions.
- L. All frame walls to be Type [S01C OR CHOOSE TYPE] and all furring walls to be [F01E OR CHOOSE TYPE], unless noted otherwise.

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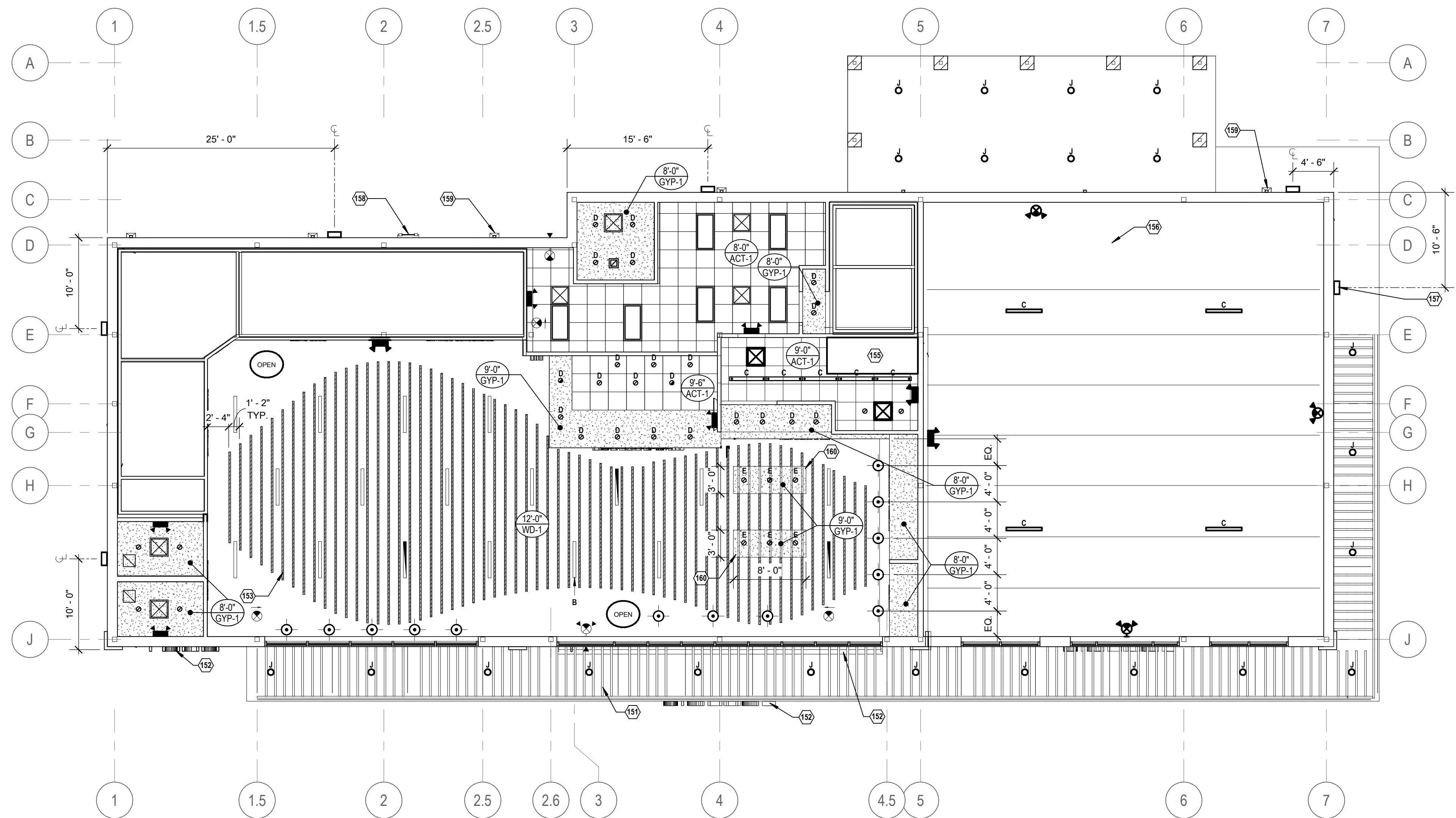
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FIRST FLOOR
DIMENSION PLAN

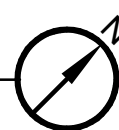
A-102

ITEM # 4

ROOM FINISH LEGEND						
DESIGNATION	DESCRIPTION	SIZE	COLOR	MANUFACTURER	PRODUCT	NOTES
CONC-1	SEALED CONCRETE	--	--	--	--	--
FRP-1	FIBERGLASS REINFORCED PANEL	--	WHITE	--	--	TRIM PIECES AT TRANSITIONS AND PERIMETER
FT-1	CERAMIC	12" x 24"	METRO CREAM	EMSER	--	HONED
PNT-1	PAINT	--	ANTIQUÉ WHITE	SHERWIN WILLIAMS	#SW6119	--
PNT-2	PAINT	--	TRICORN BLACK	SHERWIN WILLIAMS	#SW6258	--
RB-1	RESILENT COVERED RUBBER WALL BASE	4"	EBONY	ARMSTRONG	#R48EB	--
QT-1	QUARRY TILE	6" x 6"	DIABLO RED	DAL-TILE	#OT01	--
ACT-1	ACOUSTICAL CEILING TILE	2' x 2'	WHITE	ARMSTRONG	CLEANROOM VL	SCRUBBABLE/WASHABLE CEILING TILE
GYP-1	GYPSUM BOARD	--	PT-1 (SEE ABOVE)	--	--	--
GYP-2	GYPSUM BOARD	--	PT-1 (SEE ABOVE)	--	--	WATER RESISTANT GYP. BD. IN WET AREAS
WD-1						



REFLECTED CEILING PLAN



REFL. CEILING PLAN GEN. NOTES:

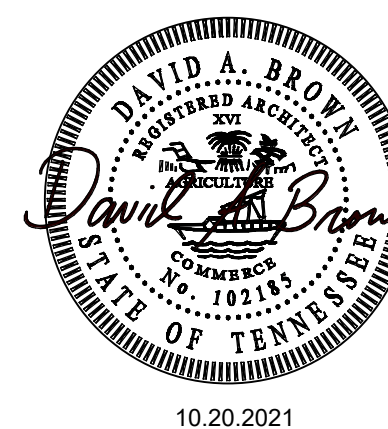
- Ceilings and other suspended items shall be attached to structure by fully embedded or "shear" connection; pull out connections are not acceptable.
- All gypsum board ceilings shall be 5/8" type 'X' gypsum board on light gauge framing or suspension system.
- Ceiling and soffit heights noted on Reflected Ceiling Plans, are above finish floor.
- Center all devices, sprinkler heads, etc. in ceiling tiles.
- All soffits over casework to extend 1" beyond the face of casework.
- Provide continuous sound batt insulation above all toilet room ceilings.
- Fire sprinkler contractor shall reference all drawings and specifications for determining proper coverage and sprinkler head layout/design.
- Reveal molding to be used at all intersections of different materials. All soffit reveals shall be a continuation of vertical wall reveals.
- Refer to electrical drawings for location of reused, relocated, existing or new light locations. Patch all GWB ceilings with new gypsum wall board where damaged or removed for new work. Match existing depth, finish and color of ceiling to be patched.
- Ceiling heights indicated in existing areas are approximate. Maximize where possible. Where ceiling grids are to extend, match existing height, direction, manufacturer, style, color and type of grid.

KEYNOTES - RCP

- 150 BUILDING SIGNAGE (OWNER TO SUPPLY)
- 151 SUSPENDED WOOD BEAM TRELLIS, TYP. EVENLY SPACED WITHIN STRUCTURAL FRAMING, TYP.
- 152 SUNSHADE
- 153 SUSPENDED WOOD BEAM CEILING MOUNTED TO STRUCTS, TYP.
- 155 HOOD (SEE MECHANICAL)
- 156 STRUCTURE (SEE STRUCTURAL)
- 157 EXTERIOR LIGH FIXTURE (SEE MEP DRAWINGS), TYP.
- 158 ROOF ACCESS LADDER
- 159 DOWNSPOUT
- 160 PAINTED GYP BOARD CEILING WITH CAN LIGHT FIXTURES

LEGEND

- OPEN: EXPOSED TO STRUCTURE ABOVE: PAINT MATTE BLACK INCLUDING EXPOSED MECHANICAL & ELECTRICAL EQUIPMENT AND CONDUIT
- HEIGHT ABOVE FINISHED FLOOR
- CEILING TYPE
GYP: GYP. BOARD CEILING
ACT: ACOUSTIC CEILING TILE
- 2x4 L.E.D. FLAT PANEL TROFFER LIGHT FIXTURE (SEE ELEC.)
- 4' LED LINEAR PENDANT LIGHT FIXTURE (SEE ELEC.)
- 4' LED STRIP LIGHT FIXTURE (SEE ELEC.)
- WALL MOUNTED EXTERIOR LIGHT FIXTURE (SEE ELEC.)
- 6" DOWNLIGHT LIGHT FIXTURE (SEE ELEC.)
- 4" DOWNLIGHT LIGHT FIXTURE (SEE ELEC.)
- 4' L.E.D. STRIP GASKETED LIGHT FIXTURE (SEE ELEC.)
- L.E.D. CYLINDER DOWNLIGHT EXTERIOR LIGHT FIXTURE (SEE ELEC.)
- DECORATIVE L.E.D. PENDANT LIGHT FIXTURE (SEE ELEC.)
- EMERGENCY LIGHTING FIXTURES (SEE ELEC.)
- SUPPLY DIFFUSER (SEE MECH)
- RETURN DIFFUSER (SEE MECH)
- CEILING MOUNTED EMERGENCY EXIT LIGHT (SEE ELEC.)
- WALL MOUNTED EMERGENCY EXIT LIGHT (SEE ELEC.)
- DECORATIVE L.E.D. PENDANT LIGHT FIXTURE (SEE ELEC.)
- ACOUSTIC CEILING TILE
- GYP. BD. CEILING



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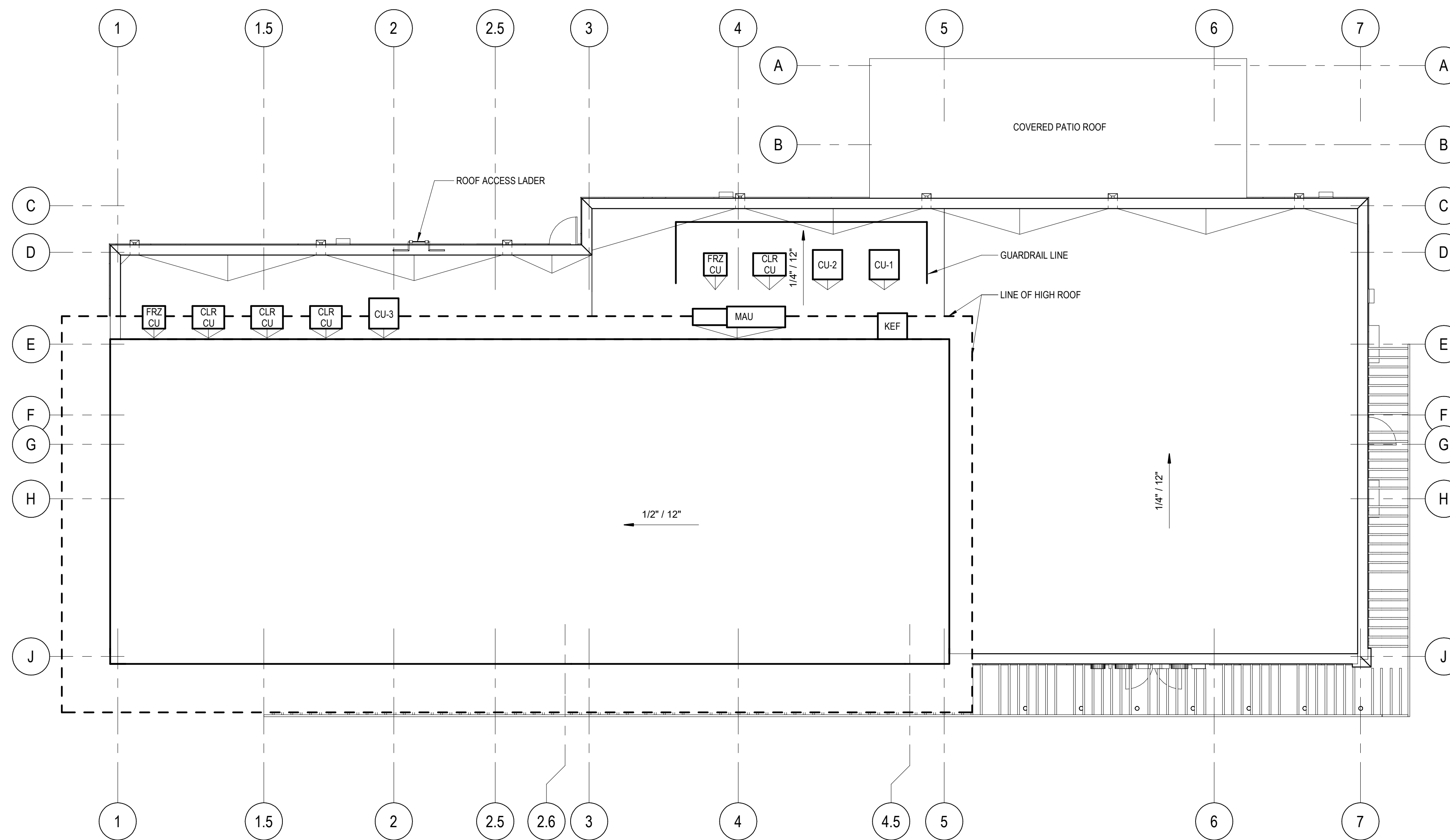
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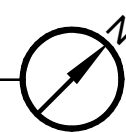
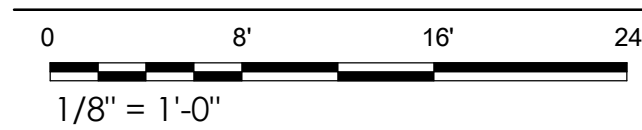
MA PROJECT NO: 0214-21

PROJECT PHASE: CD

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ROOF PLAN



ROOF PLAN GENERAL NOTES

- A. Do not begin work without holding a pre-roofing conference. Notify Architect, Roofing Supplier, Manufacturer, Installer, Sheet Metal Subcontractor and other related subcontractors a minimum of 7 days before commencing roofing work.
- B. Roofing Supplier, Manufacturer and Installer shall review all roofing details and advise Architect on any recommended changes. Unless notified otherwise, details will be assumed to have been reviewed by all parties.
- C. Provide crickets behind all mechanical equip. curbs, roof hatch curbs, etc.
- D. Minimum slope at all cricket valleys shall be 1/4" per foot. Do not scale plan for cricket dimensions.
- E. All cricket slopes shall be achieved in a manner acceptable to Architect and in accordance with roofing manufacturer's requirements.
- F. Provide curbs and flashing at any equipment not provided with pre-manufactured curbs.
- G. Separate all dissimilar metals with bituminous coatings or other methods acceptable to the Architect.
- H. Flashing details shall be in strict compliance with approved Roof Manufacturer's standards for application, and shall be fabricated in accordance with the latest edition of "Sheet Metal and Air Conditioning Contractor's National Association" (SMACNA) technical manual.
- I. All sheet metal scuppers, sleeves, etc., penetrating roofing or parapets to which roofing must attach shall be a minimum of 20 gauge, all soldered construction, with minimum 3" wide flanges.
- J. All scuppers shall be constructed with four full sides, with flanges through the thickness of the wall, forming a complete "sleeve" through the wall.
- K. Provide flashing per Roofing Manufacturer's standard details at all electrical conduit, HVAC lines, plumbing vents, etc.
- L. Flashing shall be factory finished where indicated. Galvanized unfinished flashing exposed to view shall be washed, primed, and finished with paint per the Specifications.
- M. Provide concrete splash blocks below all scuppers and at all drain leaders that daylight above grade or onto other roof surfaces.
- N. Contractor and all sub-trades shall exercise the necessary care to limit traffic and prevent damage to the roof membrane.
- O. Where existing roofing is modified, engage qualified installers of the roofing systems to maintain roof warranties. It is the Contractor's responsibility to verify types and manufacturers of existing roofing systems.

GENERAL NOTES

- 1.) LOCATIONS OF HVAC EQUIPMENT APPROXIMATE, SEE MECHANICAL DRAWINGS FOR MORE DETAILS)
- 2.) EACH UNIT NEEDS 3FT OF CLEAR SPACE AROUND IT
- 3.)INSTALL GUARD RAIL AROUND UNITS AFTER INSTALLATION, STILL PROVIDING THE REQUIRED CLEAR SPACE AROUND EACH UNIT



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nashville, tennessee
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t: 615.390.2236
www.meridiantn.com

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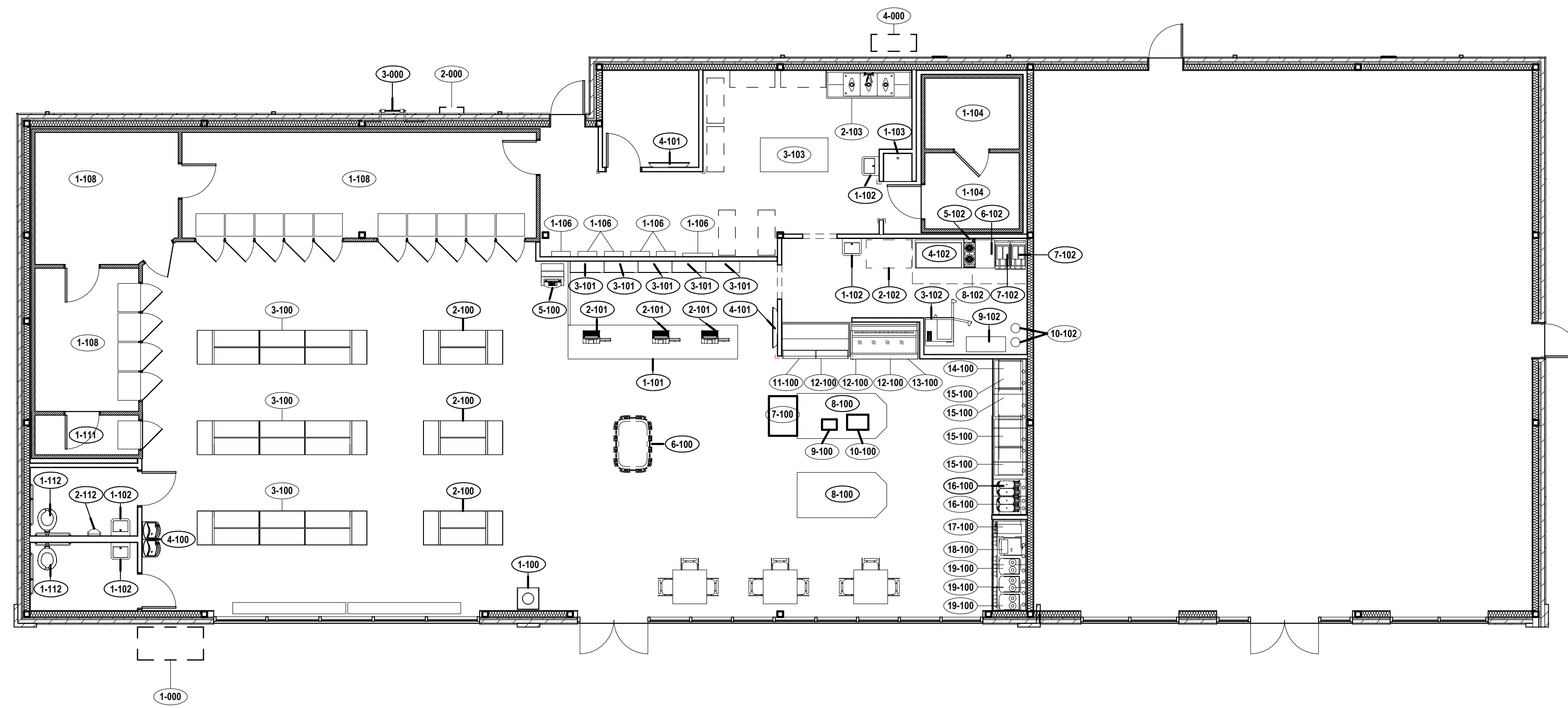
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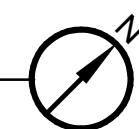
ROOF PLAN

A-104

ITEM # 4.



EQUIPMENT PLAN



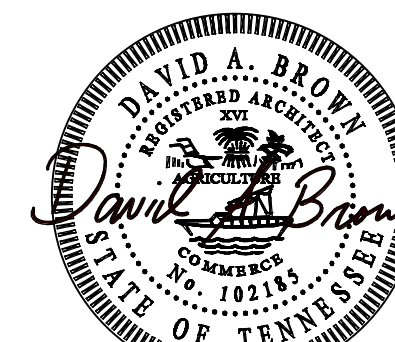
ITEM #	QTY	DESCRIPTION (length x width x height)	MANUFACTURER	MODEL
Exterior-000				
1-000	1	Exterior Bagged Ice Machine	Polar Temp. Ice Merchandisers	Model 600 Outdoor Unit-Slant Front
2-000	1	Exterior Electrical Panels	See MEP drawings	See MEP drawings
3-000	1	Roof Access Ladder	Contractor to select	Contractor to select
4-000	1	Gas Connection	Contractor to select	Contractor to select
Sales-100				
1-100	1	Trash cabinet 23" x 23" x 42"	Royston	FSDM232442DWLFD-CB,NOB,SMF2324-DW-OVAL
2-100	3	Gondola, 7ft x 3ft x 4ft	Owner to select	Owner to select
3-100	3	Gondola, 15ft x 3ft x 4ft	Owner to select	Owner to select
4-100	1	Elkay Versatile Cooler Wall Mount Bi-Level ADA Non-Filtered 8 GPH Light Gray Granite 36-3/4" x 19" x 25-5/16"	ELKAY	EZSTL8LC
5-100	1	Atm Machine	Owner to select	Owner to select
6-100	1	Refrigerated Self-Serve Island Merchandiser 60" x 40" x 60"	Federal Industries	EIMSS60SC-3
7-100	1	Wall Display Non-Refrigerated, Self-Serve Bakery Case 42" x 30" x 62"	Federal	WCD42
8-100	2	Center Island Cabinet 96" x 48" x 34"	Royston	(2) CENTER STORAGE: CS48-23-34-DRSFP4830 RIGHT END UNIT: CIM60-CD12-34-SFP6024M LEFT END UNIT: CI24-48-34-DR SFP4830
9-100	1	Hot Dog Bun Warmer 15 1/2" x 11" x 4 7/8"	Grand Slam	177HDRG24D
10-100	1	24 Hot Dog Roller Grill 22 1/2" x 16" x 6 1/2"	Grand Slam	177HDRG24
11-100	1	Glo-Ray Buffet Warmers 67" x 22.5" x 20.75"	HATCO	GRBW-66
12-100	3	2 door storage cabinet	Royston	(3) CS48-29-34-DR-CB-B SF48-29
13-100	1	48" Self Service, 3 Shelf Heated Display Warmer with Sliding Doors 48" x 19" x 32"	Avantco Equipment	177HDC48
14-100	2	Cabinet w/built in cup holder & trash Solid surface countertop w/backsplash (see details)	Royston	(3); CB36-36-34-3C-OB-B (3); CB18-36-34-3C-OB-B
15-100	4	Flavor Select 30 Ice Beverage Dispensers 30" x 30.5" x 40.25"	Lancer WorldWide	Flavor Select 30
16-100	2	Ultra-Frozen Beverage System with 2 hoppers 16" x 24.5" x 31.9"	BUNN	ULTRA-2, HP LAFI
17-100	2	Cabinet w/built in cup holder & trash Solid surface countertop w/backsplash (see details)	Royston	(2); CB24-36-34-3C-OB-B (3); CB30-36-34-3C-OB-B (1); CS18-36-34-SW-LFD
18-100	1	Nuova Simonelli ProntoBar Touch 1-Step Super Automatic Espresso Machine - 220V 13" x 21" x 25"	Nuova Simonelli	Item #: 238PT1
19-100	3	K-Series Cappuccino Dispensers	CEILWARE	5K-10-GB-LD
Cashier-101				
1-101	1	Front Display Cabinet	Royston	(3); CS48-29-34-MF (1); CS36-29-34-SF
2-101	3	Cash Register	Owner to select	Owner to select
3-101	5	Cigarette display shelving 36" x 1'-0" 78"/92.74"	Royston Tobacco Merchandisers	
4-101	2	Security Monitor/TV Display	Owner to select	Owner to select
Kitchen-102				
1-102	4	Declyn Wall-Hung Lavatory	American Standard	0321.026
2-102	1	16-gauge stainless steel work tables with 4" backsplash 48" x 30" x 34"	Regency	600TSB3048S
3-102	1	Duke Baking Center- DBC-1 30" x 30" x 66"	Duke	DBC-1 59-E3 Oven with PFB-1 Proofer Base GCP48
4-102	1	Gas Griddle 48" x 30" x 15.6"	Cecilware Pro	GCP48
5-102	1	Countertop Range 12" x 26 13/16" x 15"	Cooking Performance Group	351RCPG12NL
6-102	1	16 gauge stainless steel work tables with 4" backsplash 48" x 30" x 34"	Regency	600TSB3084S
7-102	2	Avantco FF300 Natural Gas 40 lb. Stainless Steel Floor Fryer 15 1/2" x 30 1/2" x 47 1/8"	Avantco	177FF300N
8-102	1	Kitchen Hood	Econ Air	5424EX-2-PSP-F
9-102	1	Fountain Drink Supply	Owner to select	Owner to select
10-102	2	CO2 Tanks for Soda Machines	Owner to select	Owner to select
Stor./Prep.-103				
1-103	1	Stainless Steel Economy Fabricated Floor Mop Sink 25" x 21" x 10"	Advance Tabco Smart Fabrication	9-OP-20-EC-X
2-103	1	Deep Three Compartment Economy Sink- S/S	Kintera	KES31818S-218
3-103	1	Worktables with Backsplash and Stainless Steel Base with Undershelf -Deluxe Series 72" x 36" x 35 1/8"	Eagle Group	T36725EB-BS
1-104	1	Walk in Cooler & Freezer Combo	U.S. Cooler	Quote No. 555182, Rev 1
Receiving- 106	6	Electrical Panels	See MEP Drawings	See MEP Drawings
1-108	1	Walk in Cooler w/doors System & Beer Cave	U.S. Cooler	Quote No. 555187, Rev 1
1-111	1	Walk in Freezer with door System	U.S. Cooler	Quote No. 555183, Rev 0
Mens Restroom- 112				
1-112	2	Toilet with grab bars	Contractor to select	Contractor to select
2-112	1	Urinal	Contractor to select	Contractor to select

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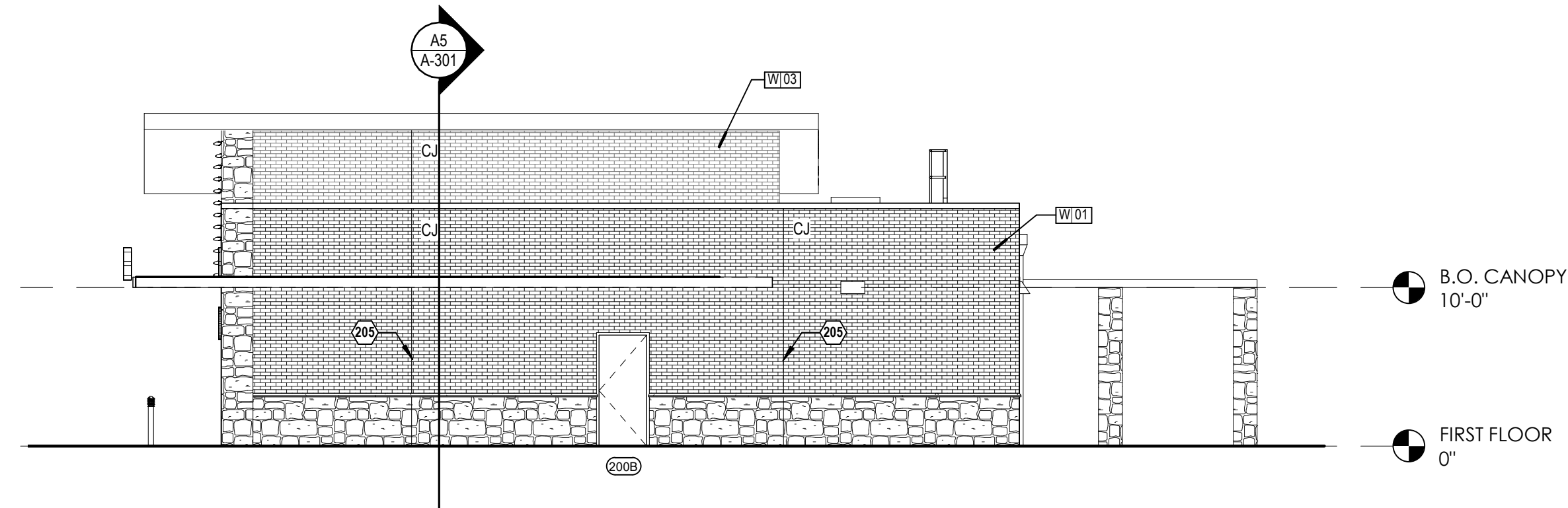
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EQUIPMENT

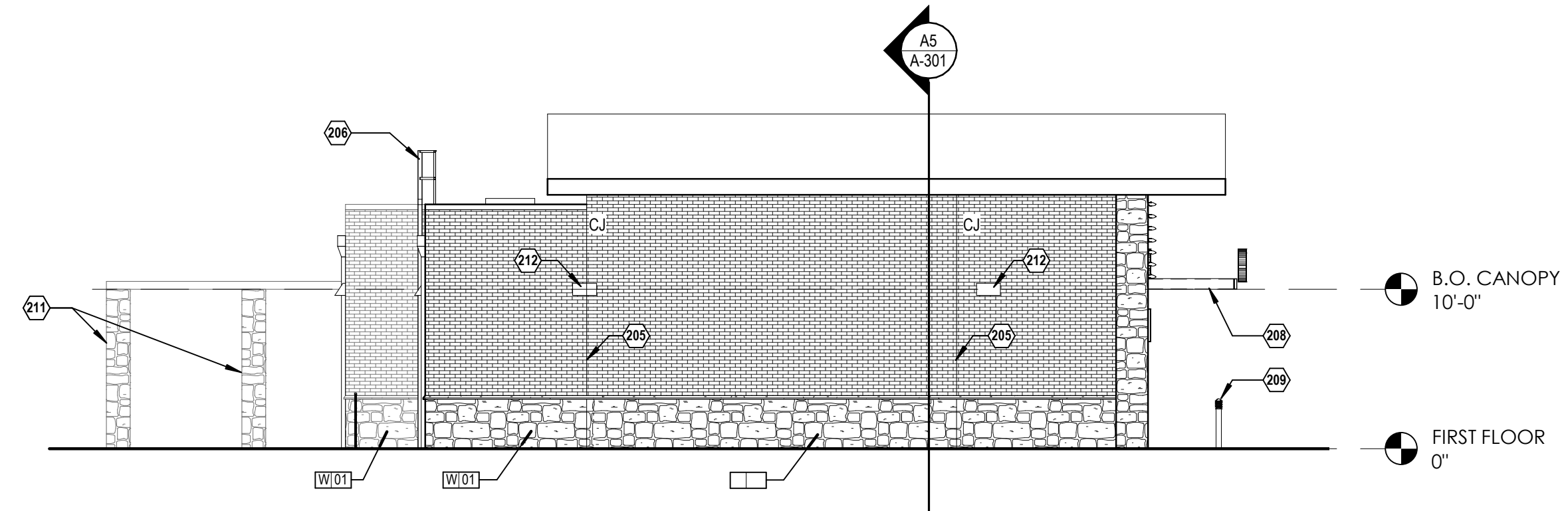
A-105

ELEVATION GENERAL NOTES

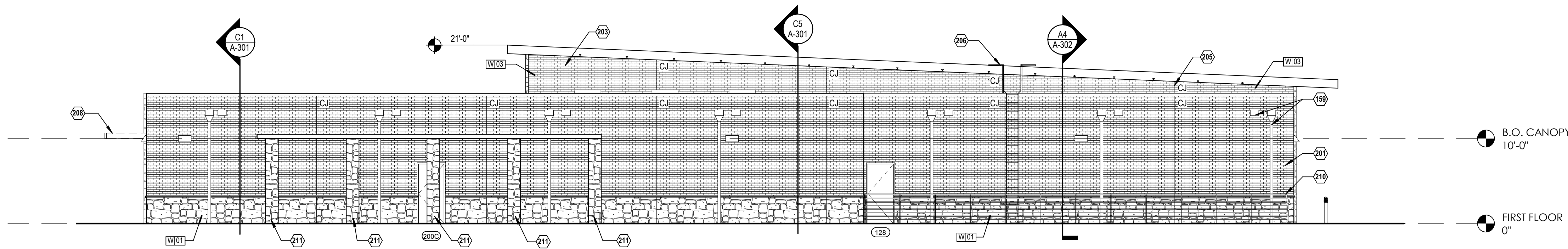
- A. All exposed stem walls shall be of masonry type indicated for walls above floor line.
- B. Sidewalks at building and structures shall match finish floor flush at doorways and slope away from the building.
- C. Paint all exposed metal that is not specified to receive factory finish.
- D. All exposed flashing shall be factory finished.
- E. See Plans and Schedule for door and window types and sizes.



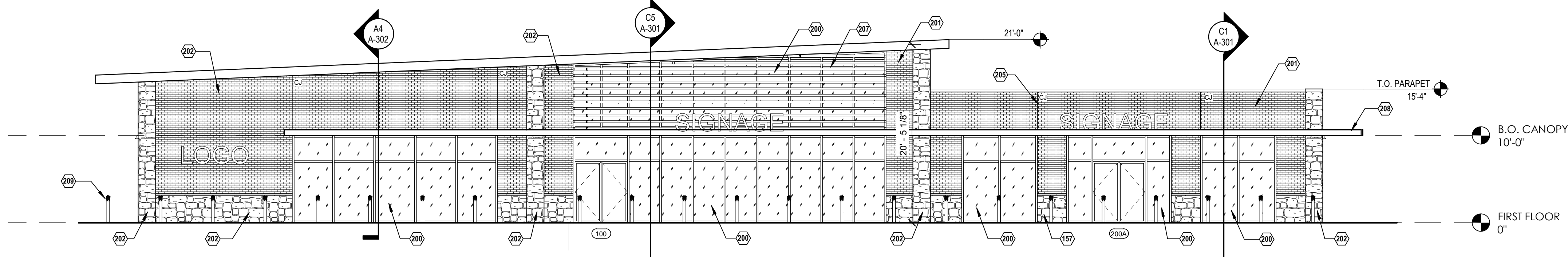
C5 EAST ELEVATION
1/8" = 1'-0"



C3 WEST ELEVATION
1/8" = 1'-0"



B5 NORTH ELEVATION
1/8" = 1'-0"



A5 SOUTH ELEVATION
1/8" = 1'-0"

KEYNOTES - ELEVATION

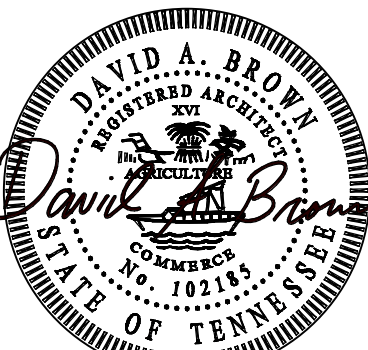
- 200 SCHEDULED ALUMINUM STOREFRONT, REF.
- 201 FACE BRICK
- 202 STONE
- 203 THIN BRICK FACADE AT UPPER ROOF, TYP.
- 205 MASONRY CONTROL JOINT, TYP.
- 206 ROOF ACCESS LADDER
- 207 ALUMINUM AIRFOIL SUNSHADE, TYP.
- 208 PAINTED STEEL CANOPY WITH INFILL SLATS
- 209 ILLUMINATED BOLLARDS, TYP.
- 210 PAINTED STEEL GUARDRAIL
- 211 STONE COLUMN, TYP.
- 212 EXTERIOR LIGHTING; REF. ELECT

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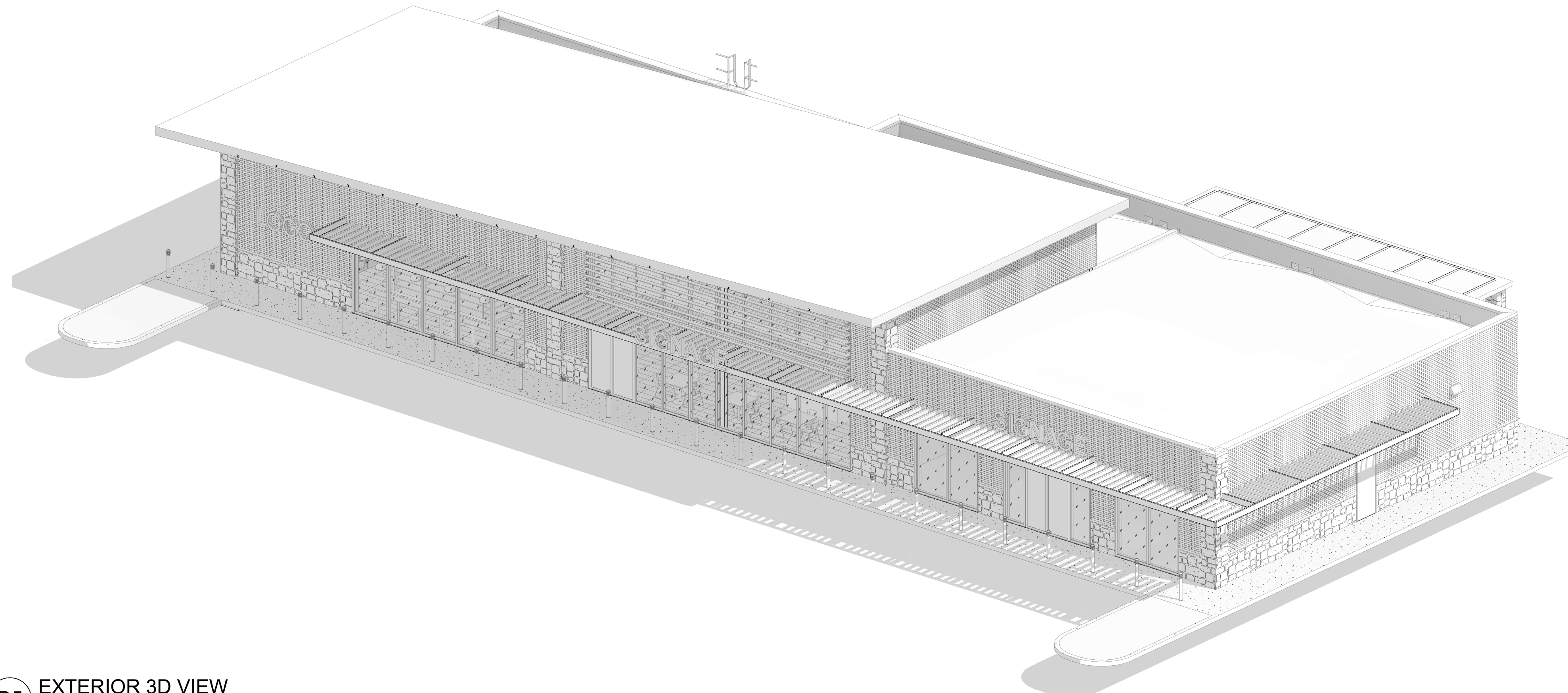
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DRAWN BY: TEAM

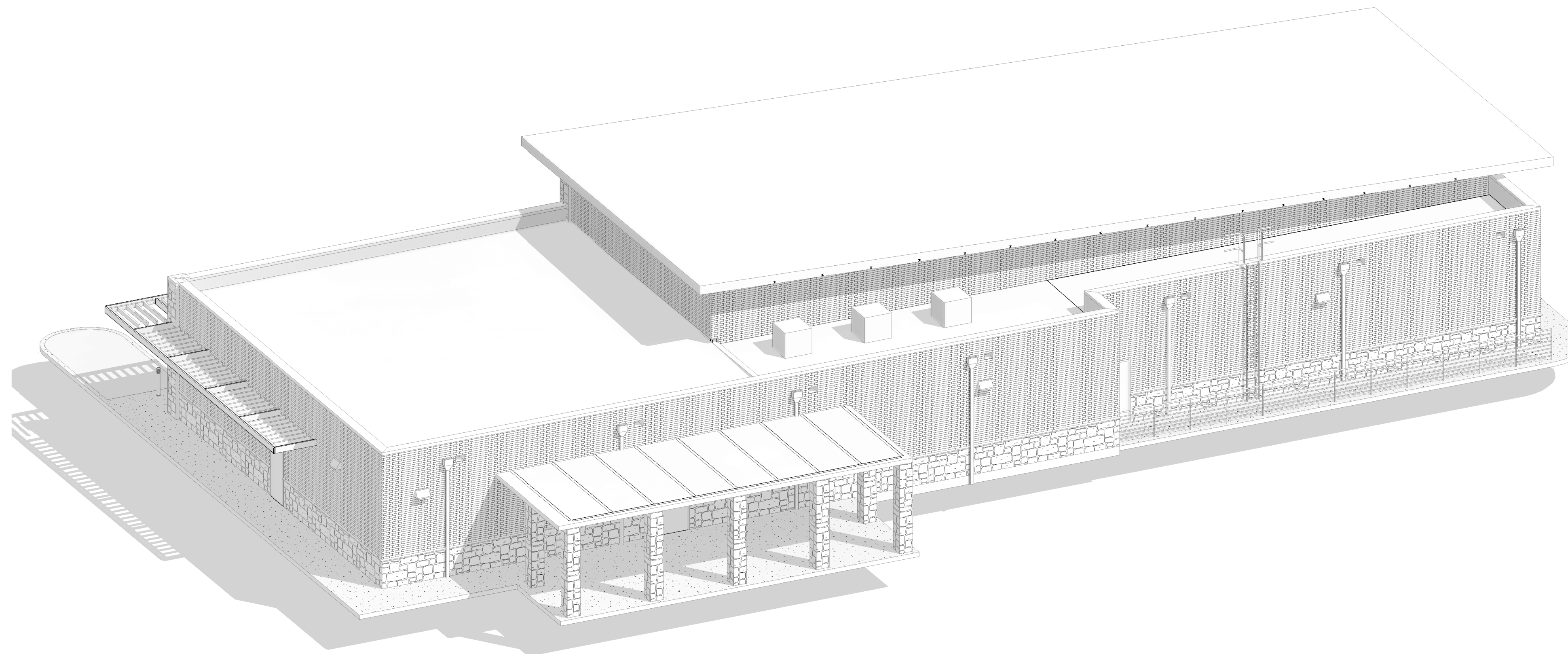
BUILDING ELEVATIONS

A-201

ITEM # 4.



D5 EXTERIOR 3D VIEW



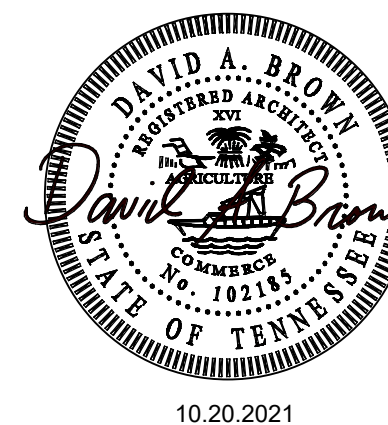
A5 EXTERIOR 3D VIEW

ASHLAND CITY C-STORE

DHAVAL PATEL
0 Old Hydes Ferry Pike, Ashland City, TN 37015

CLIENT CONTACT:
DHAVAL PATEL
(615) 598-5887 | dhavalom@gmail.com

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nashville, tennessee
e: office@meridiantn.com
t: 615.390.2236
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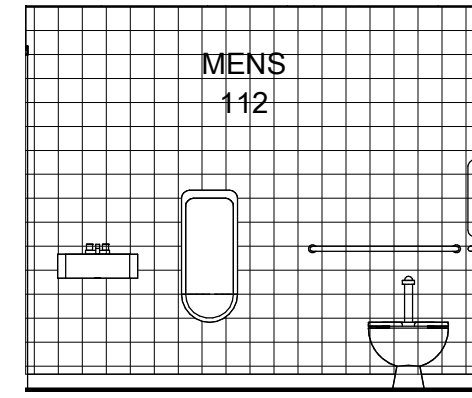
PROJECT PHASE: CD

DRAWN BY: TEAM

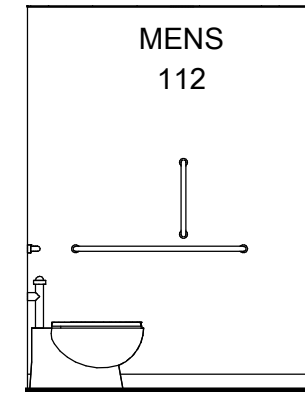
BUILDING 3D VIEWS - EXTERIOR

A-202

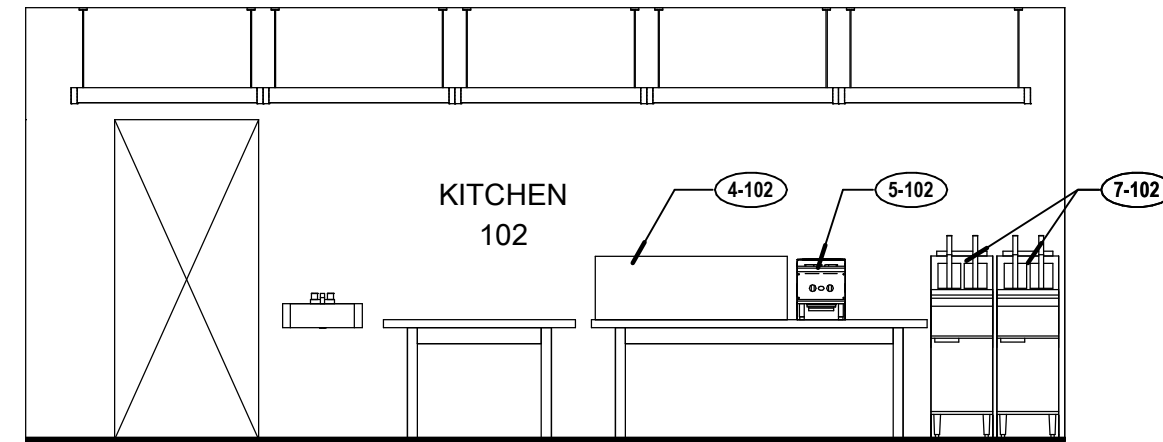
ITEM # 4



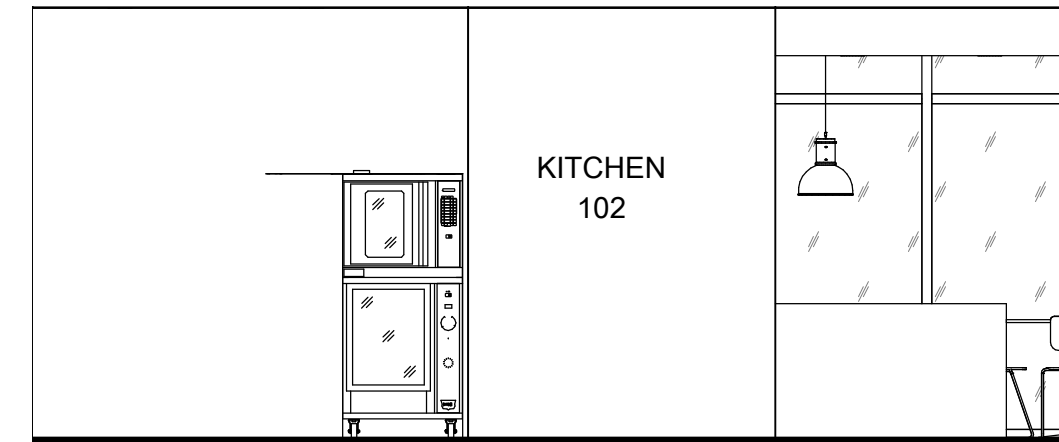
E5 INTERIOR ELEVATION
1/4" = 1'-0" REF A5 / A-101



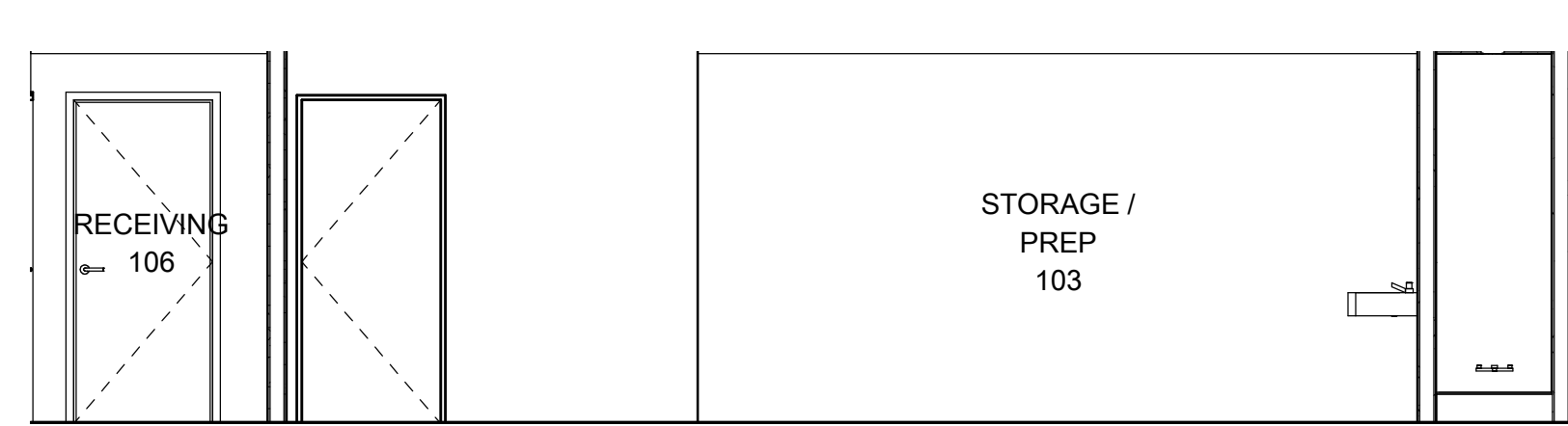
E4 INTERIOR ELEVATION
1/4" = 1'-0" REF A5 / A-101



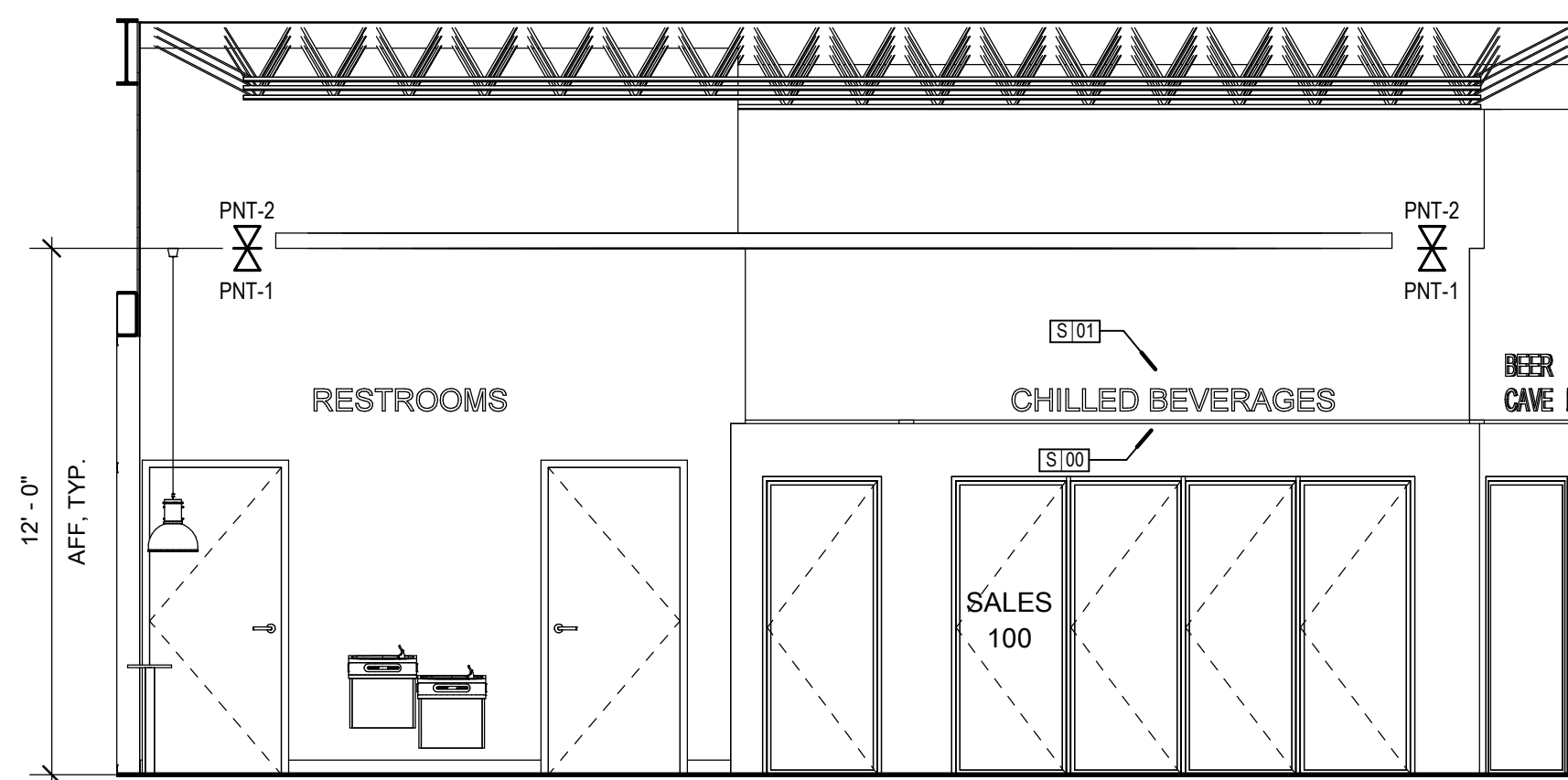
D5 INTERIOR ELEVATION
1/4" = 1'-0" REF A4 / A-101



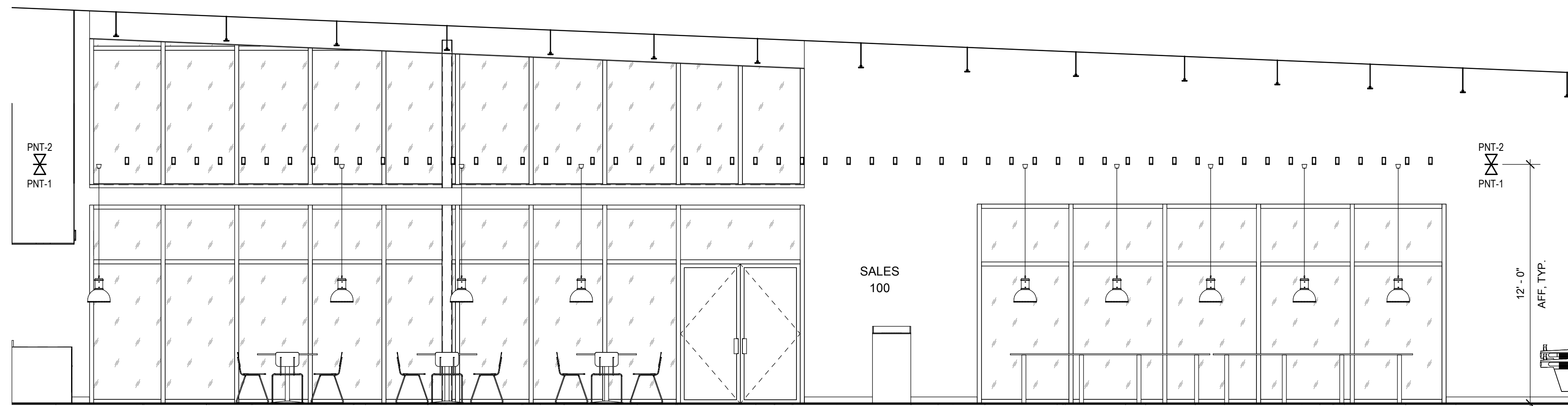
D4 INTERIOR ELEVATION
1/4" = 1'-0" REF A4 / A-101



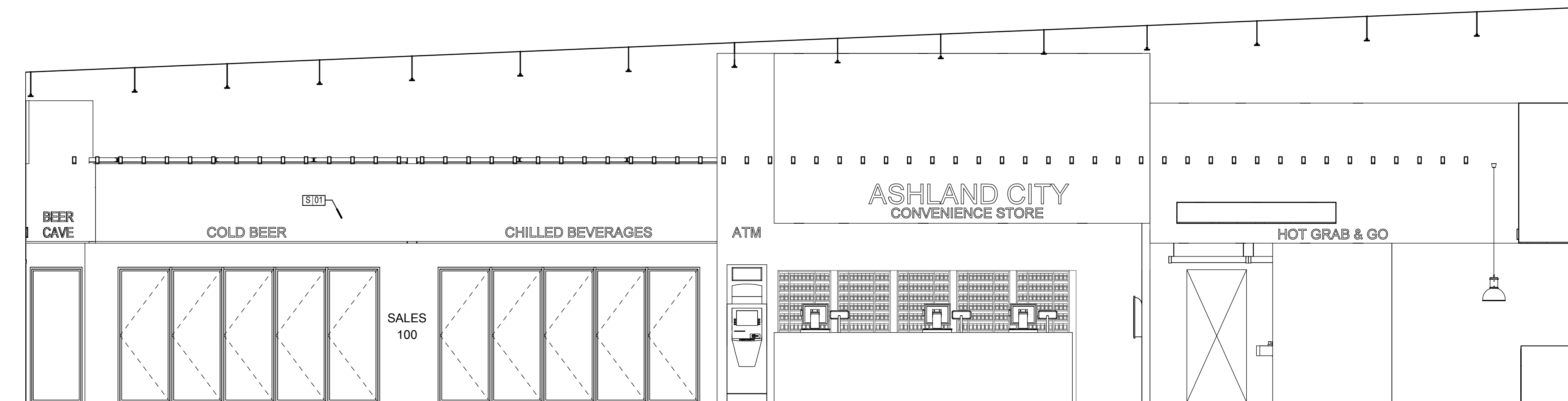
D3 INTERIOR ELEVATION
1/4" = 1'-0" REF A4 / A-101



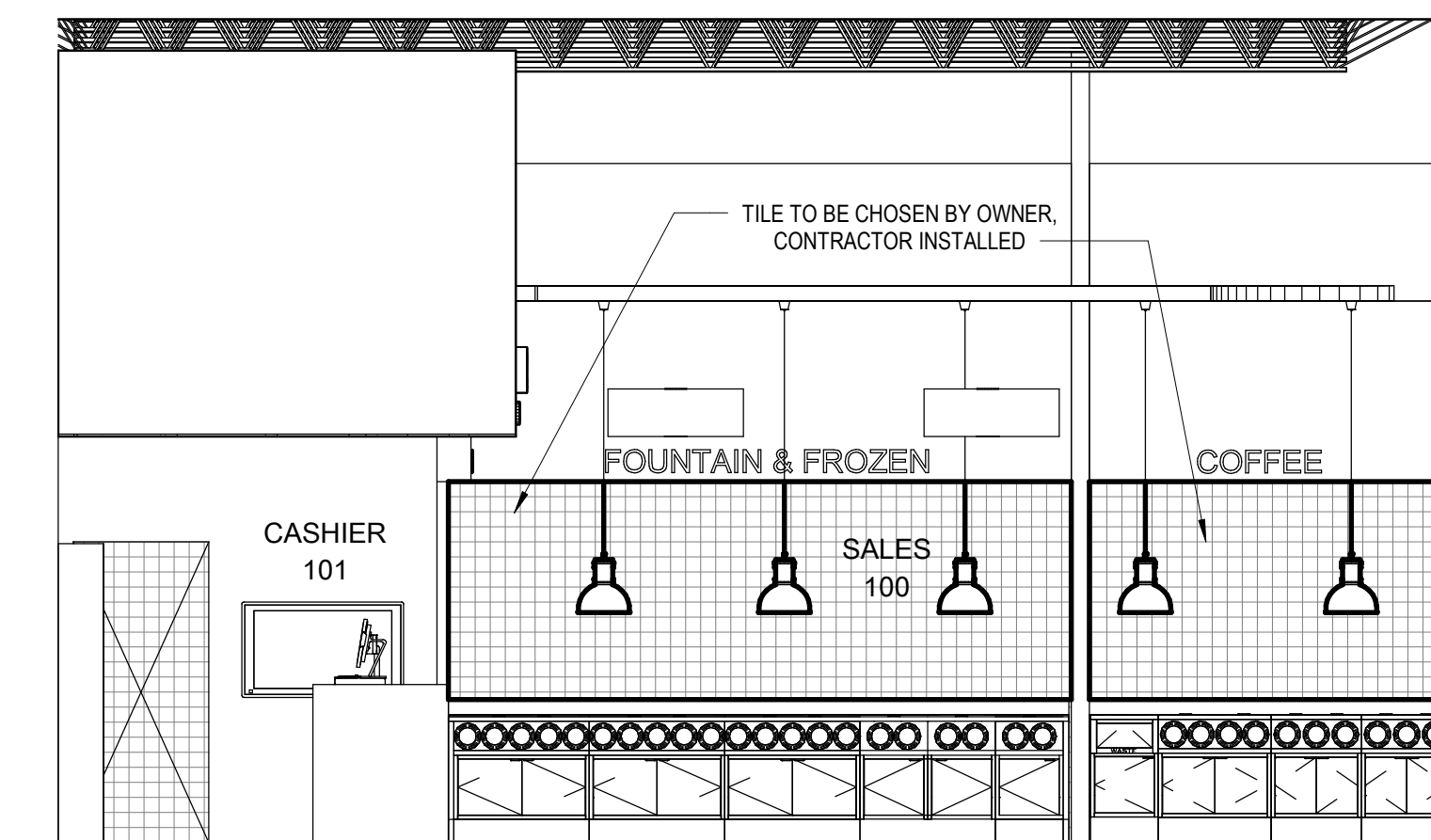
B5 INTERIOR ELEVATION
1/4" = 1'-0" REF A4 / A-101



B3 INTERIOR ELEVATION
1/4" = 1'-0" REF A4 / A-101



A5 INTERIOR ELEVATION
1/4" = 1'-0" REF A4 / A-101



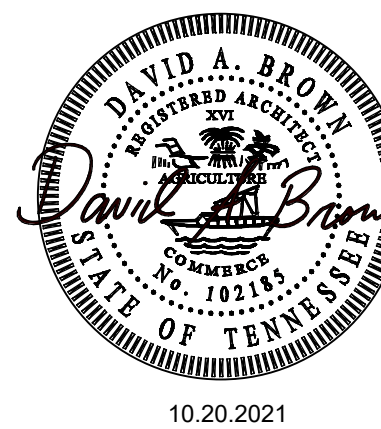
A1 INTERIOR ELEVATION
1/4" = 1'-0" REF A4 / A-101

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DHAVAL PATEL
(615) 598-5887 | dhavalom@gmail.com

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nashville, tennessee
e: office@meridiantn.com
t: 615.390.2236
www.meridiantn.com

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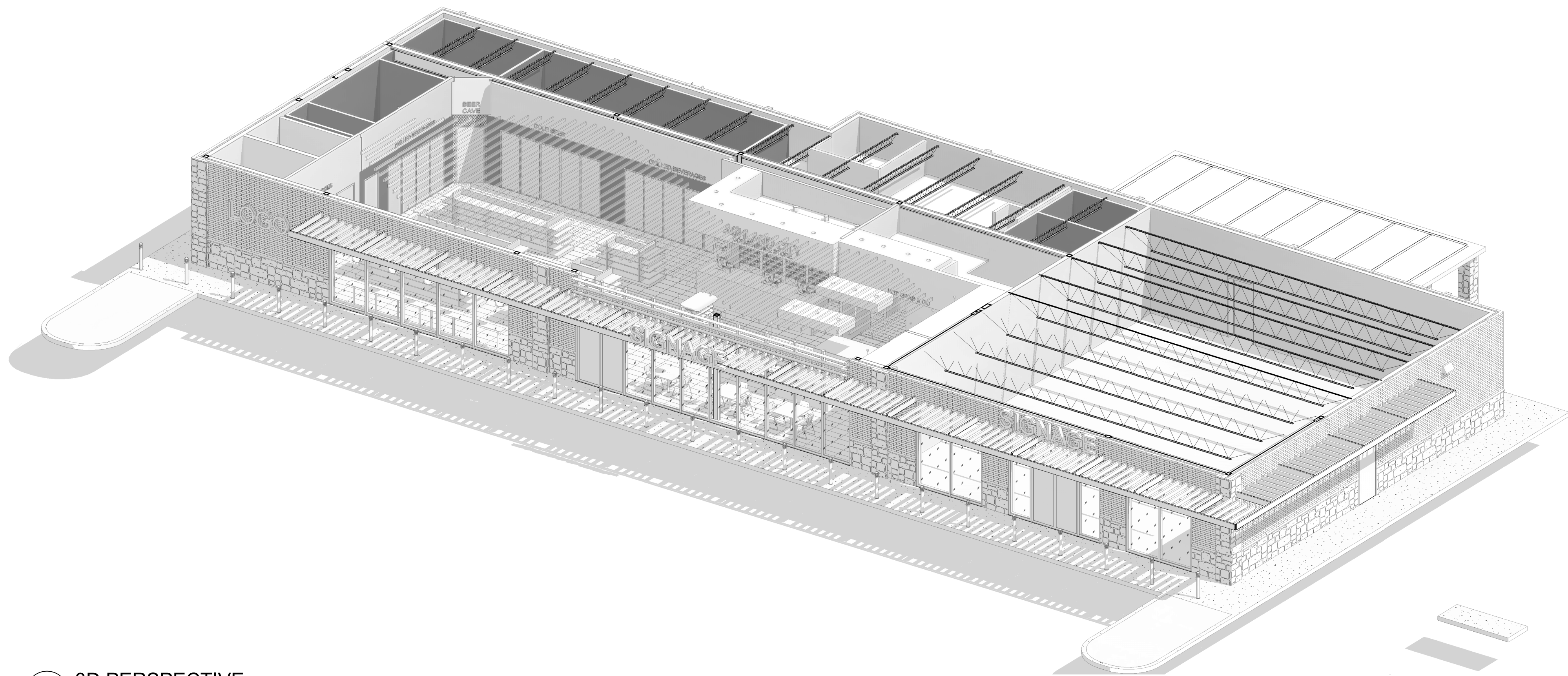
DELTA	DESCRIPTION	DATE
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MA PROJECT NO:	0214-21
PROJECT PHASE:	CD
DRAWN BY:	TEAM

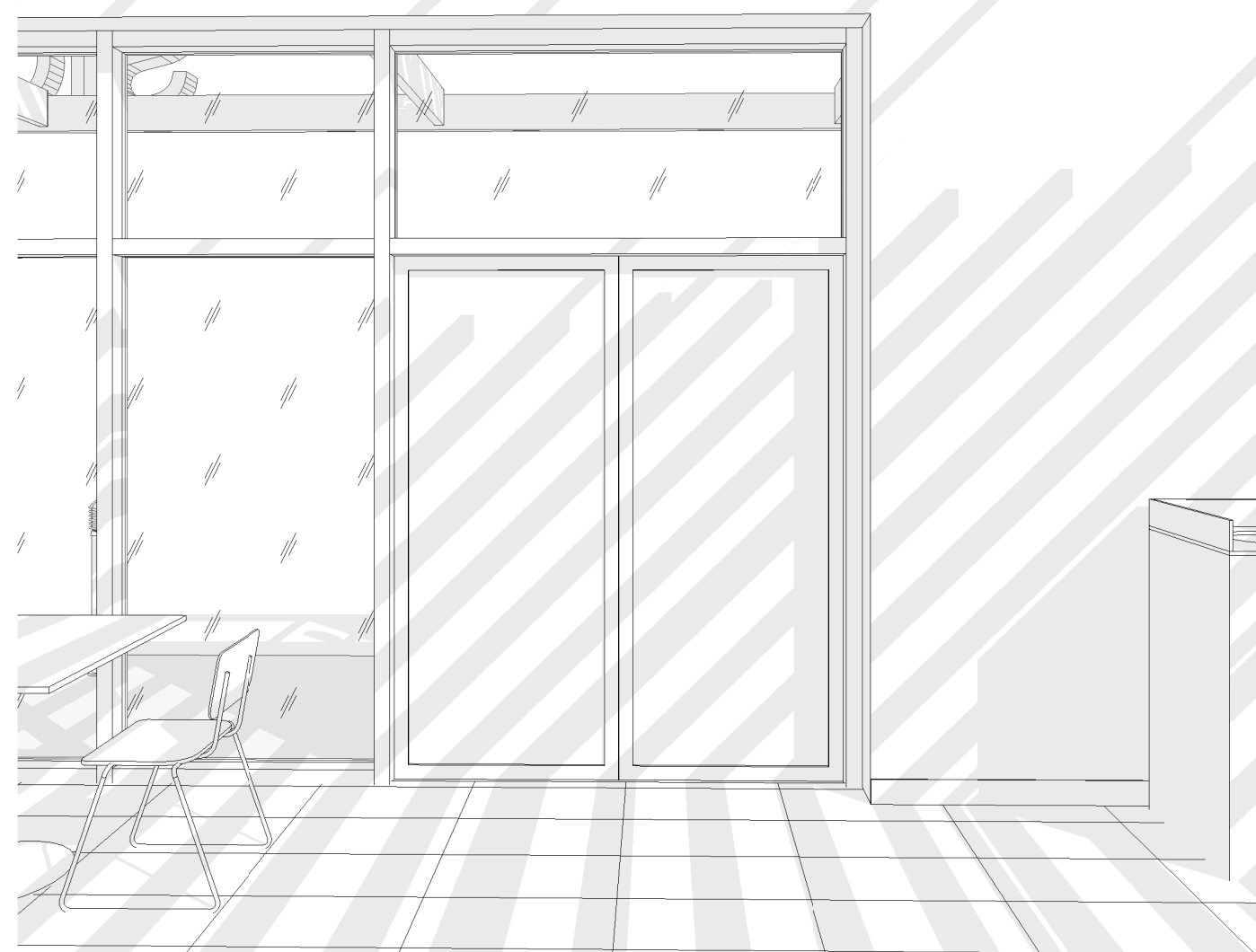
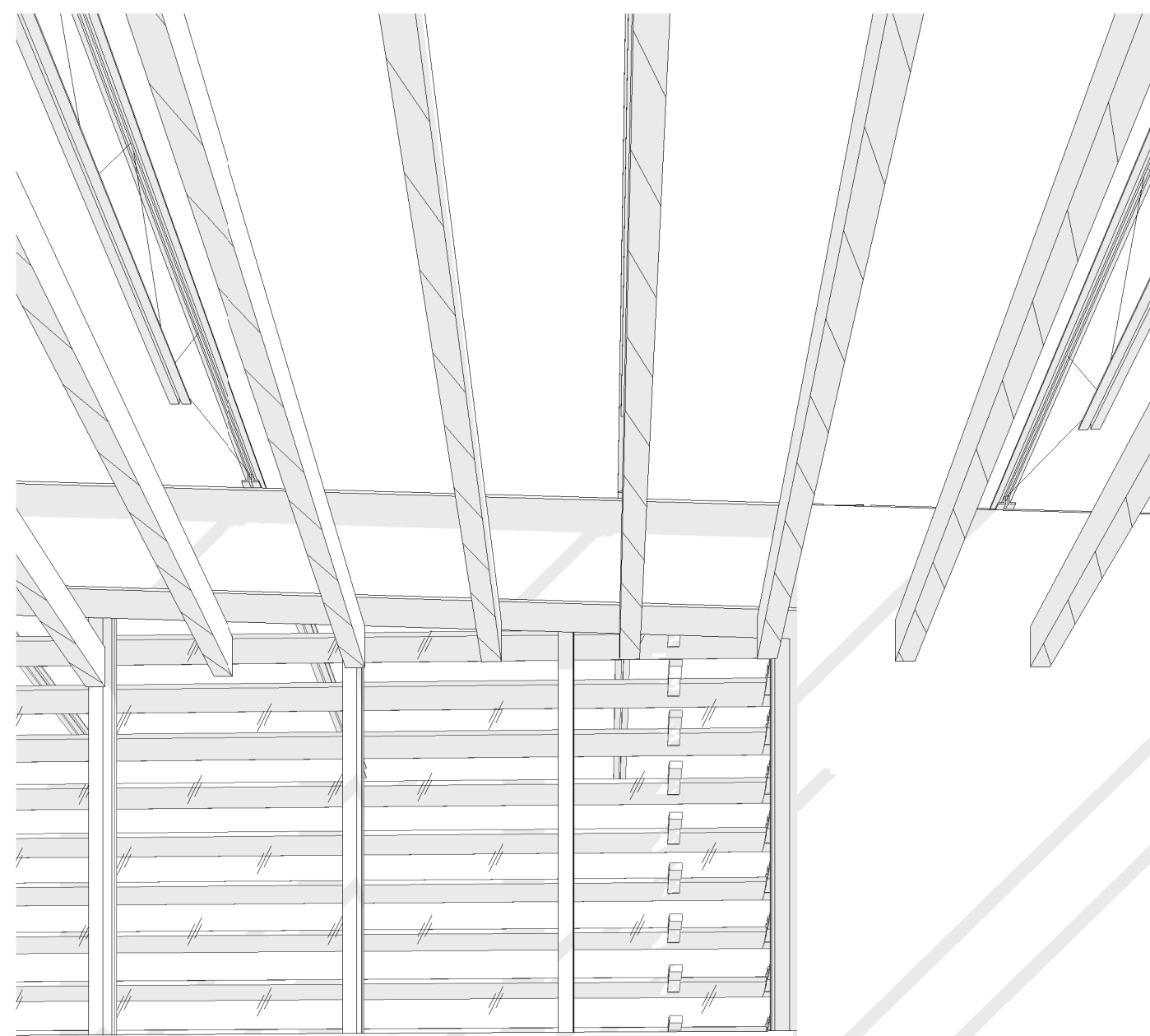
INTERIOR ELEVATIONS

A-203

ITEM # 4



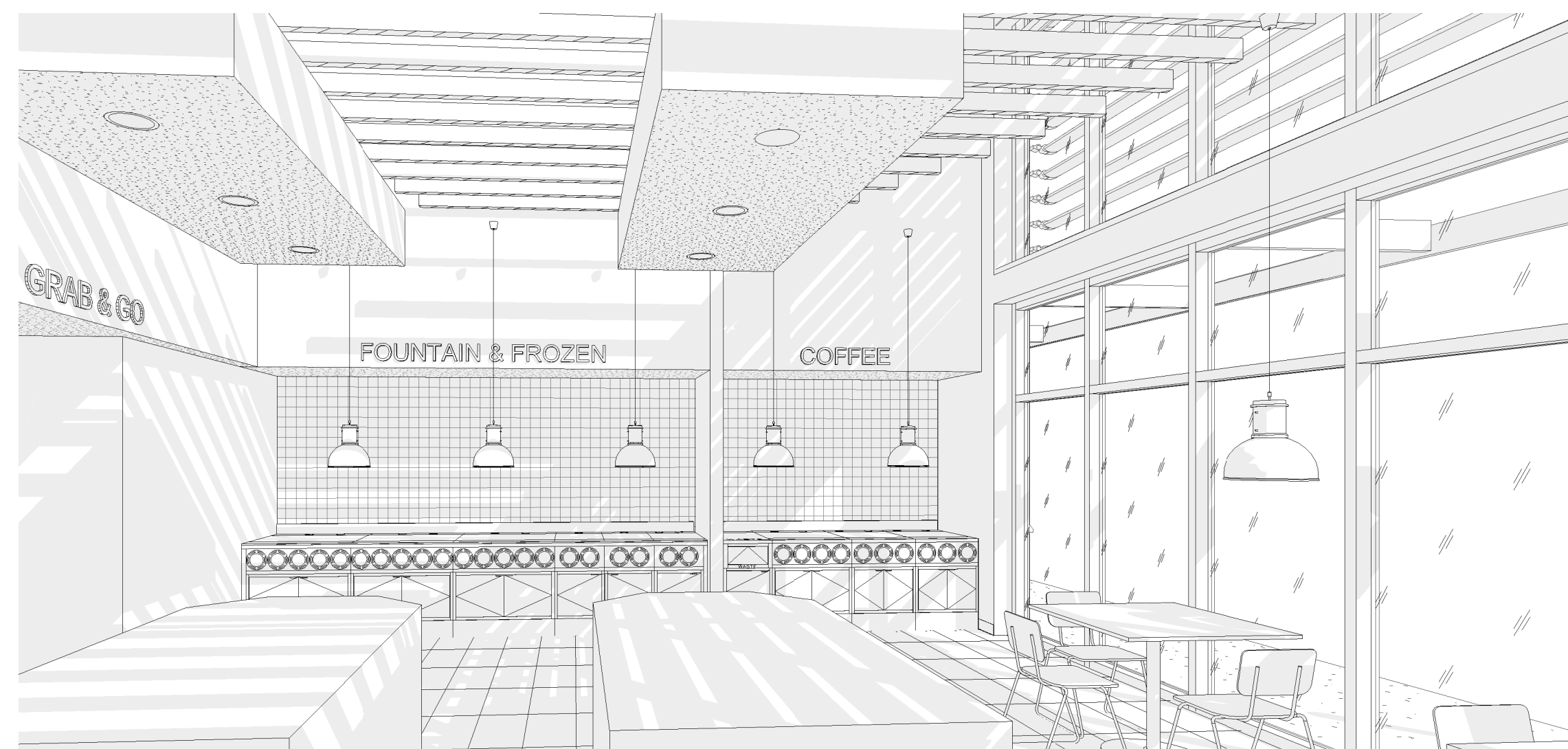
E3 3D PERSPECTIVE



A5 INTERIOR 3D PERSPECTIVE



B4 INTERIOR 3D PERSPECTIVE



B2 INTERIOR 3D PERSPECTIVE



A4 INTERIOR 3D PERSPECTIVE



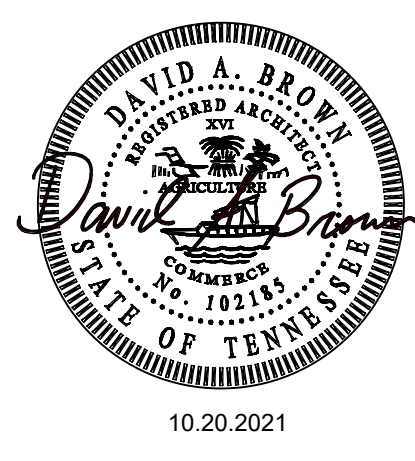
A2 INTERIOR 3D PERSPECTIVE

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 0 Old Hydes Ferry Pike, Ashland City, TN 37015

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 DHAVAL PATEL
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 e: office@meridiantn.com
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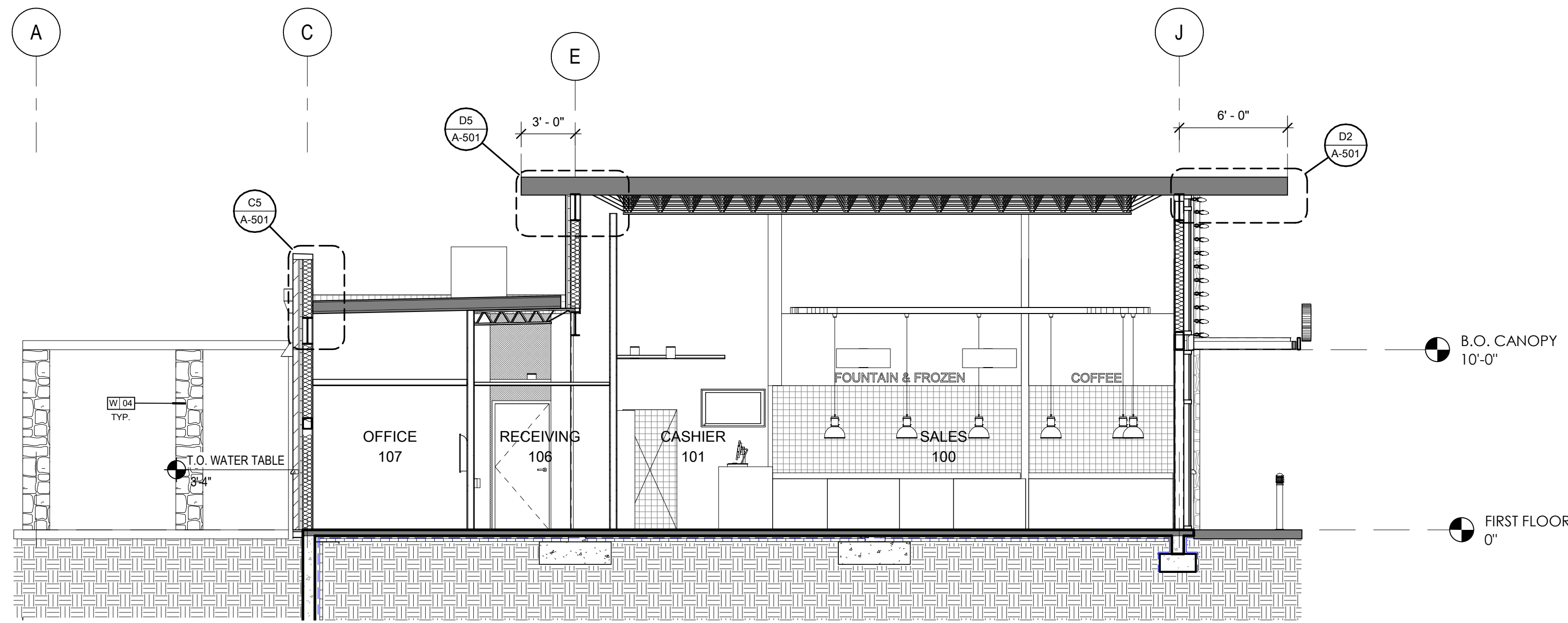
DELTA	DESCRIPTION	DATE

DATE OF ISSUE: 10.20.2021
 MA PROJECT NO: 0214-21
 PROJECT PHASE: CD
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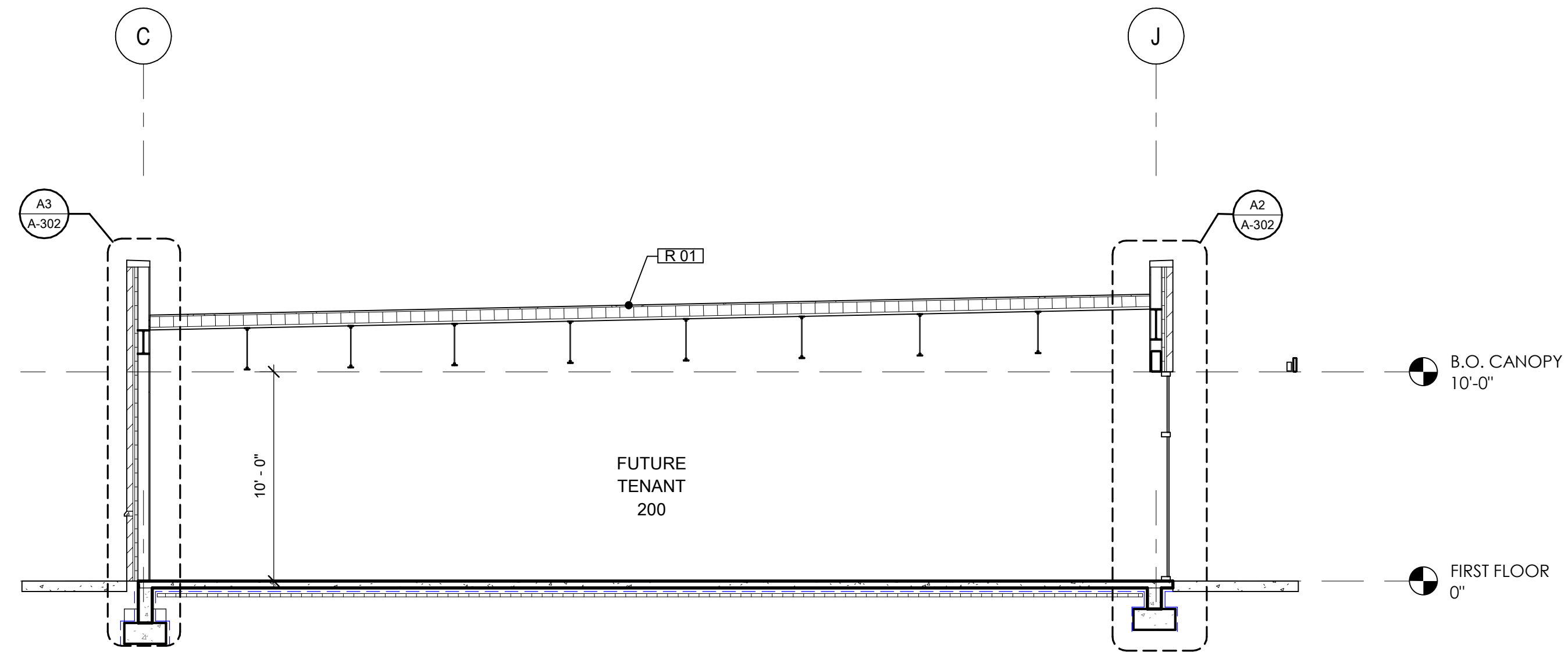
BUILDING 3D VIEWS - INTERIOR

A-204

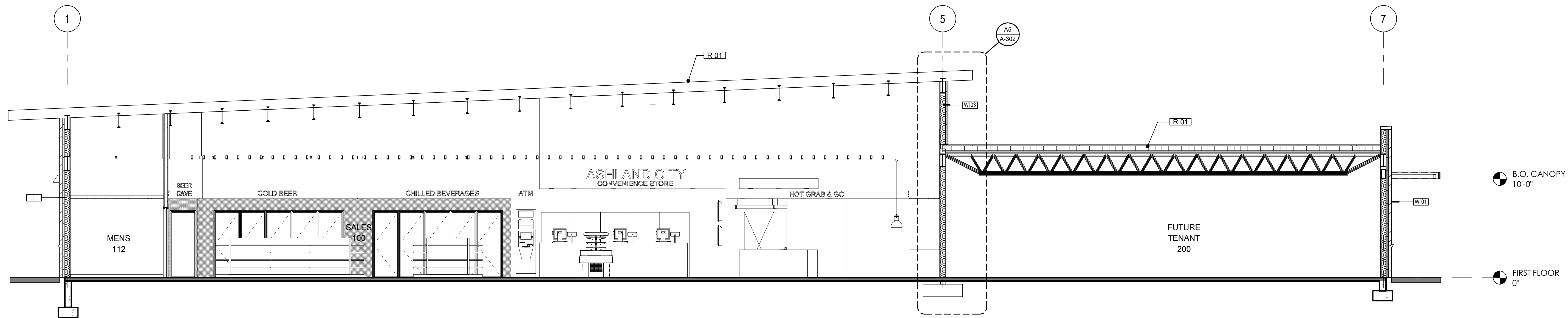
ITEM # 4



C5 BUILDING SECTION
3/16" = 1'-0" REF A4 / A-101



C1 BUILDING SECTION
3/16" = 1'-0" REF A4 / A-101



A5 BUILDING SECTION
3/16" = 1'-0" REF A4 / A-101

SECTION GENERAL NOTES

- A. Suspended materials shall be attached to structure with tested connectors for tension or shear condition at frequency to support load applied.
- B. Insulation shall be continuous at the roof plane and shall lap wall insulation.
- C. Route all plumbing, fire sprinkler, mechanical, electrical, fire alarm, piping, and conduit in concealed or furred area only. Exposed piping and conduit shall not be allowed in any area except at electrical and fire riser rooms.

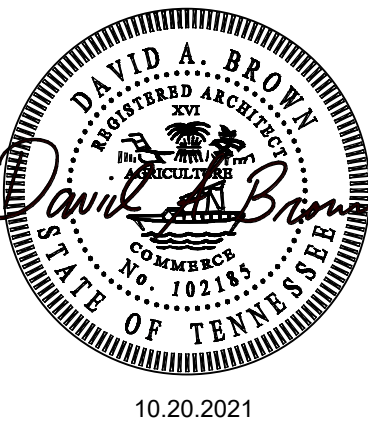
KEYNOTES - BUILDING SECTION

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DHAVAL PATEL
0 Old Hydes Ferry Pike, Ashland City, TN 37015

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DHAVAL PATEL
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e: office@meridiantn.com
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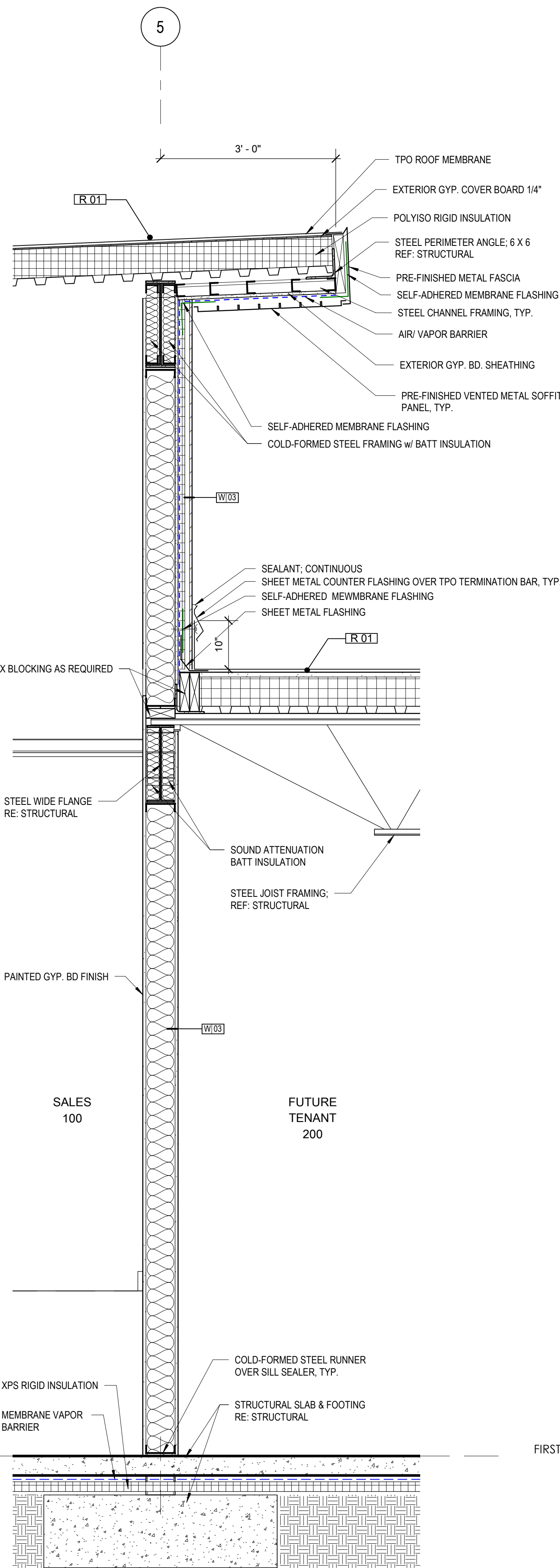
MA PROJECT NO: 0214-21

PROJECT PHASE: CD

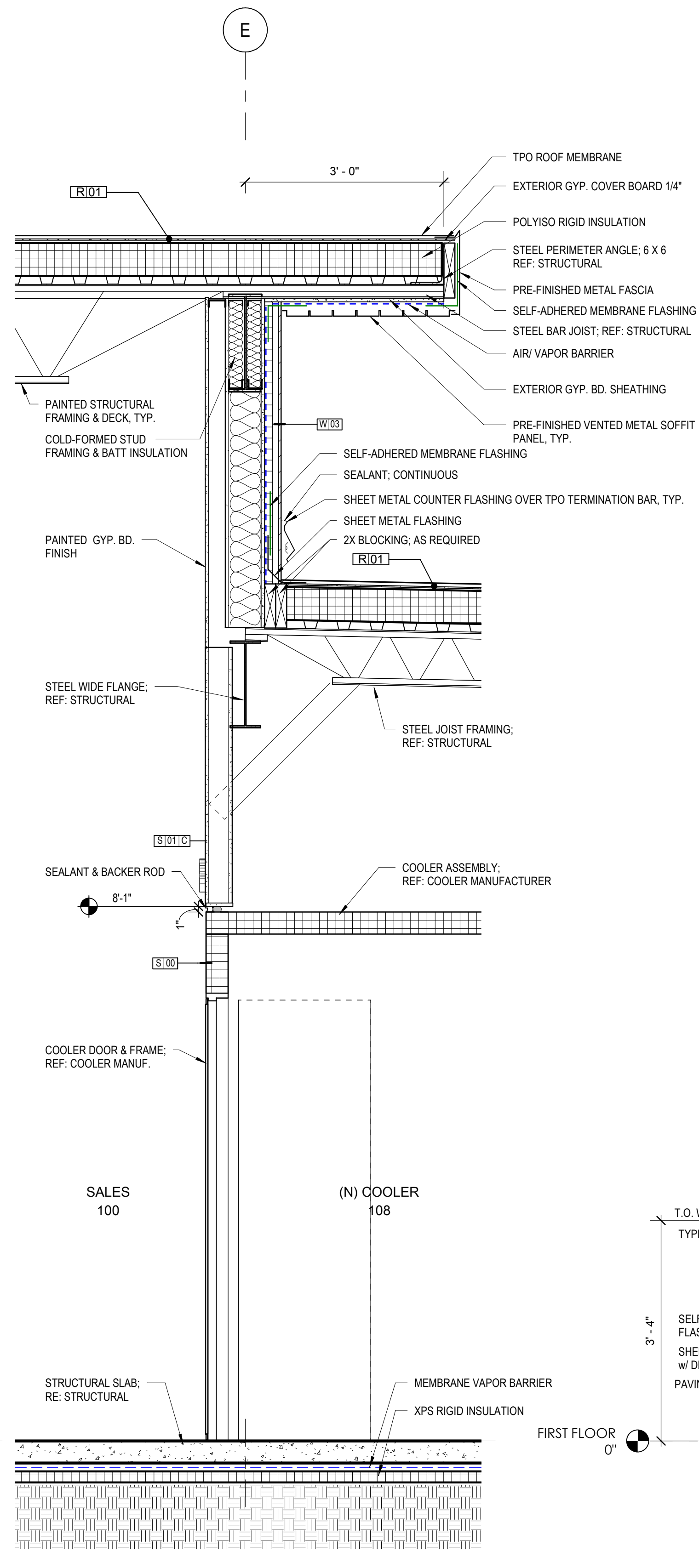
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BUILDING SECTIONS

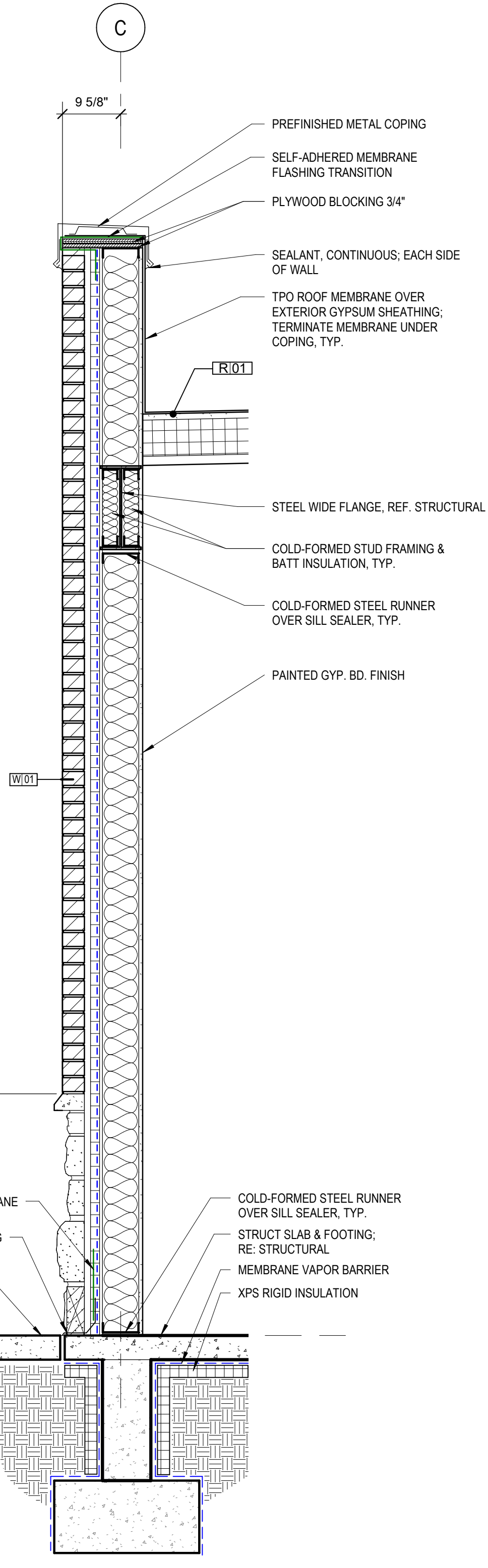
A-301



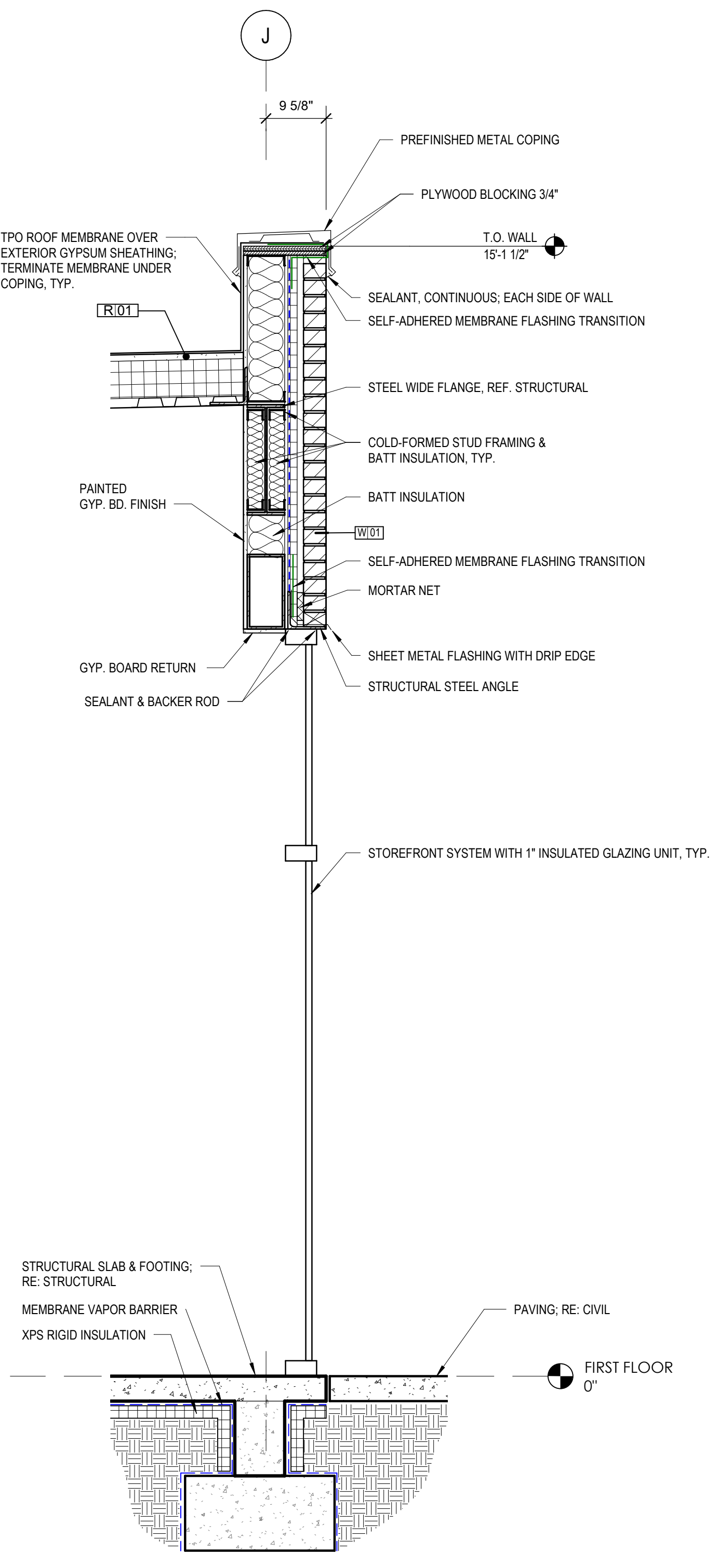
A5 WALL SECTION
3/4" = 1'-0" REF A5 / A-301



A4 WALL SECTION
3/4" = 1'-0" REF A4 / A-101



A3 WALL SECTION
3/4" = 1'-0" REF C1 / A-301



A2 WALL SECTION
3/4" = 1'-0" REF C1 / A-301

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e: office@meridiantn.com
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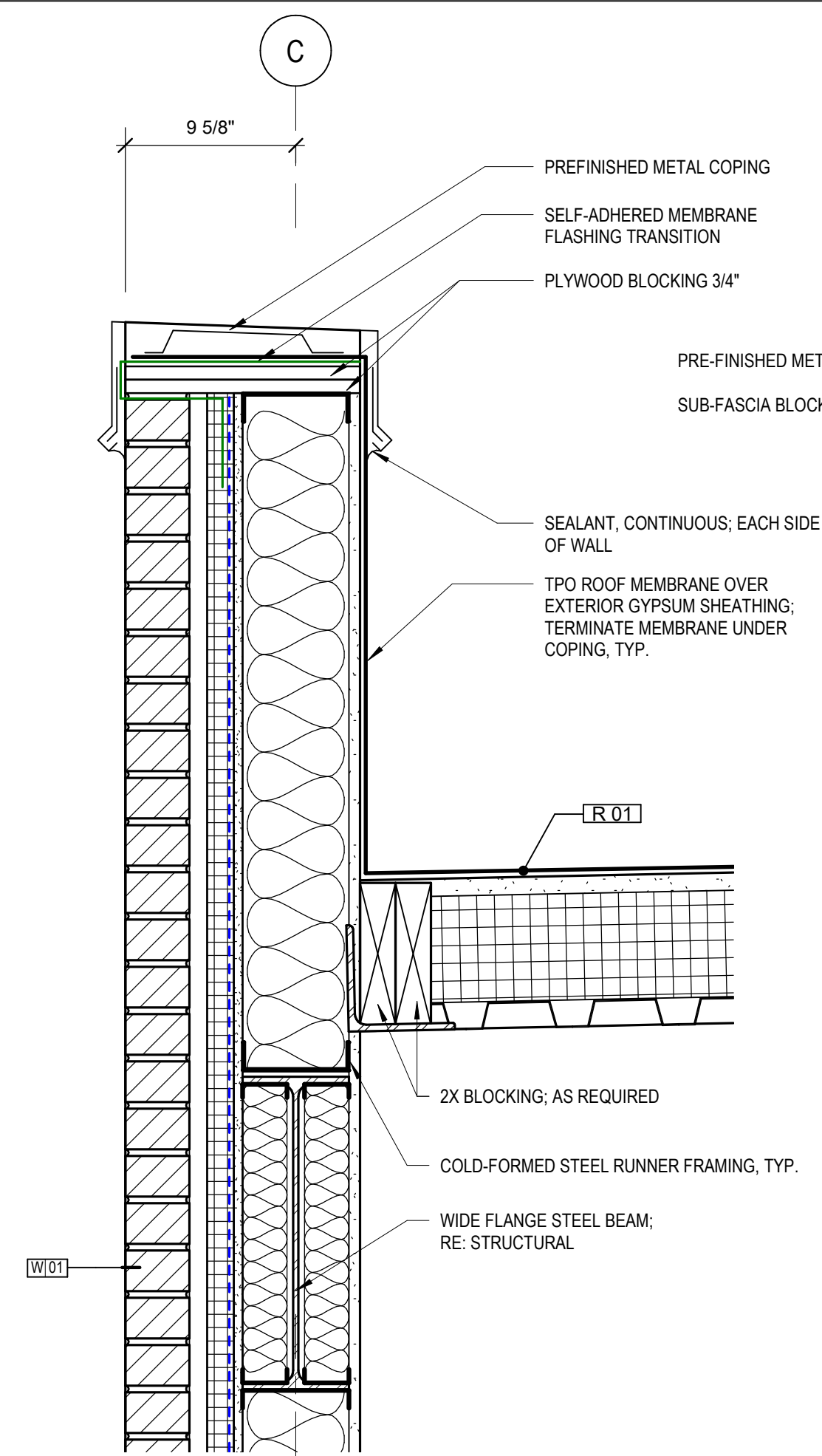
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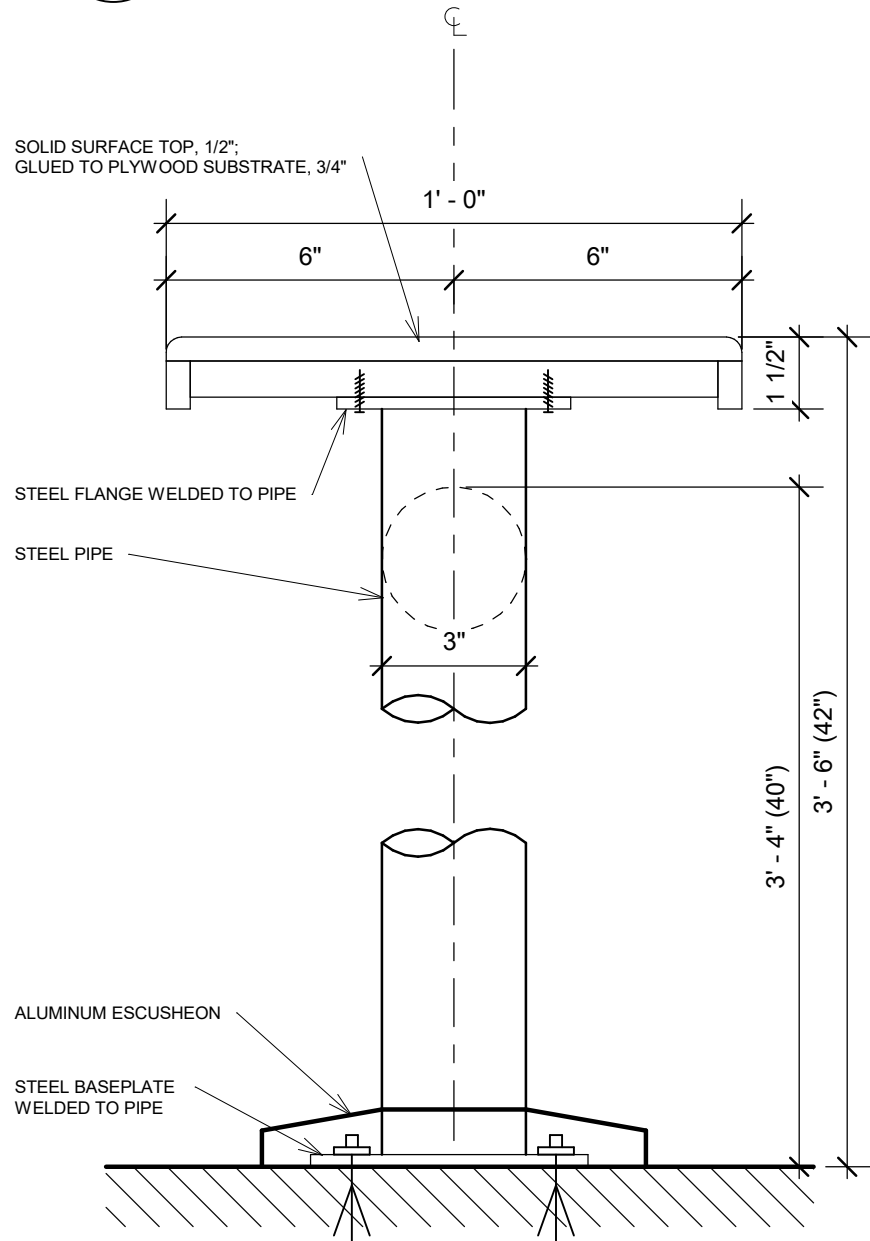
PROJECT PHASE: CD

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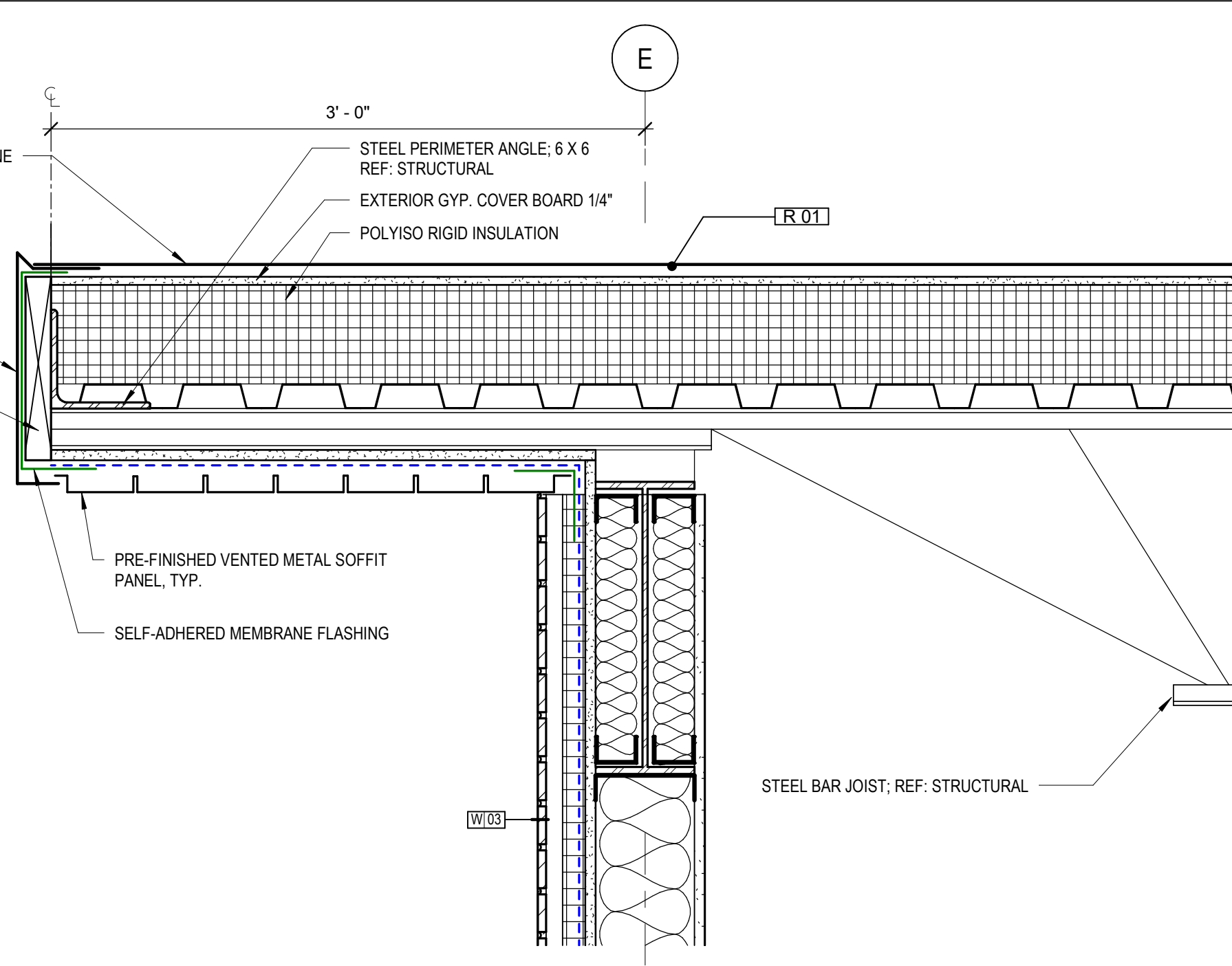
A-302



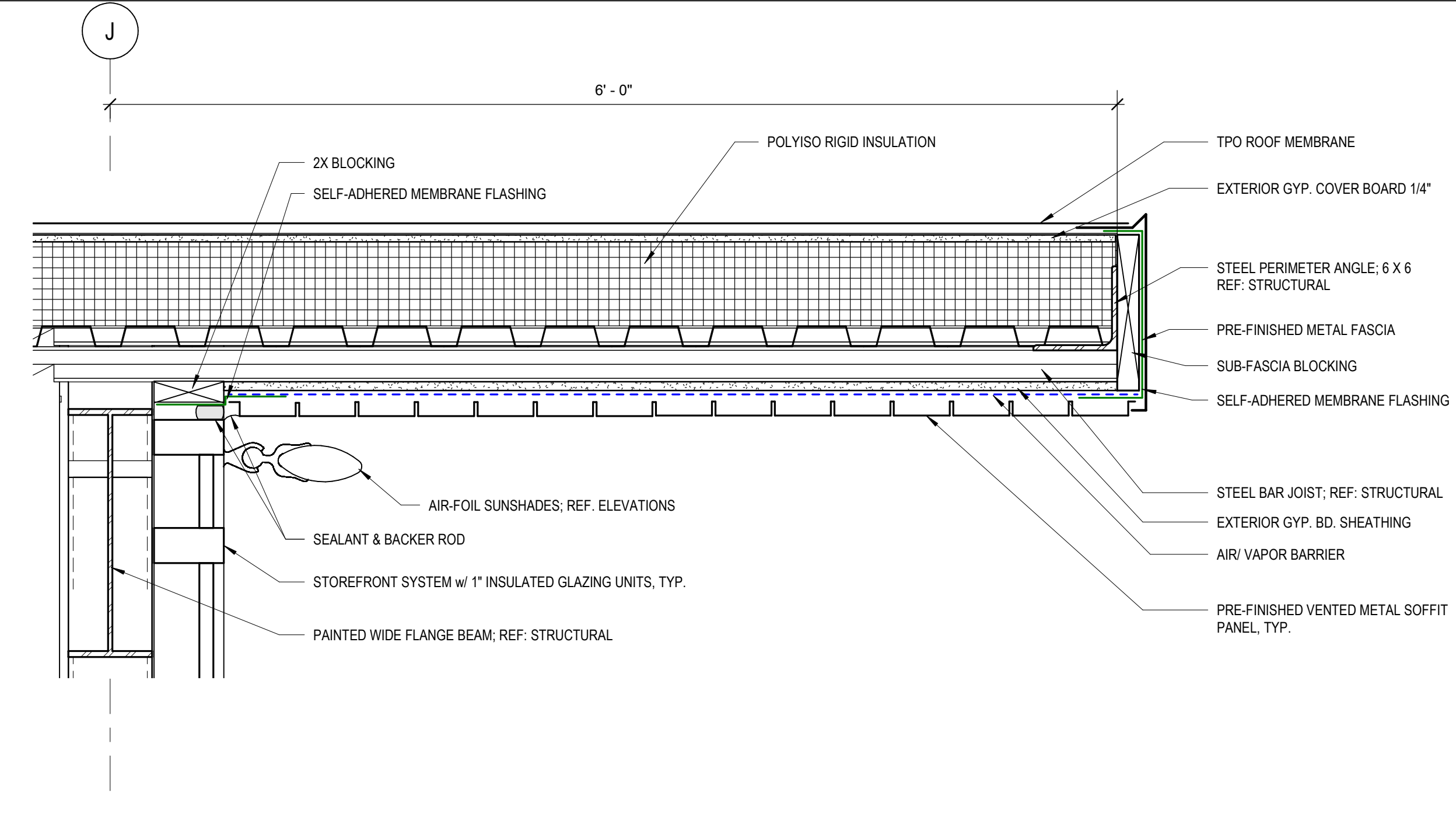
C5 SECTION DETAIL
1 1/2" = 1'-0" REF C5 / A-301



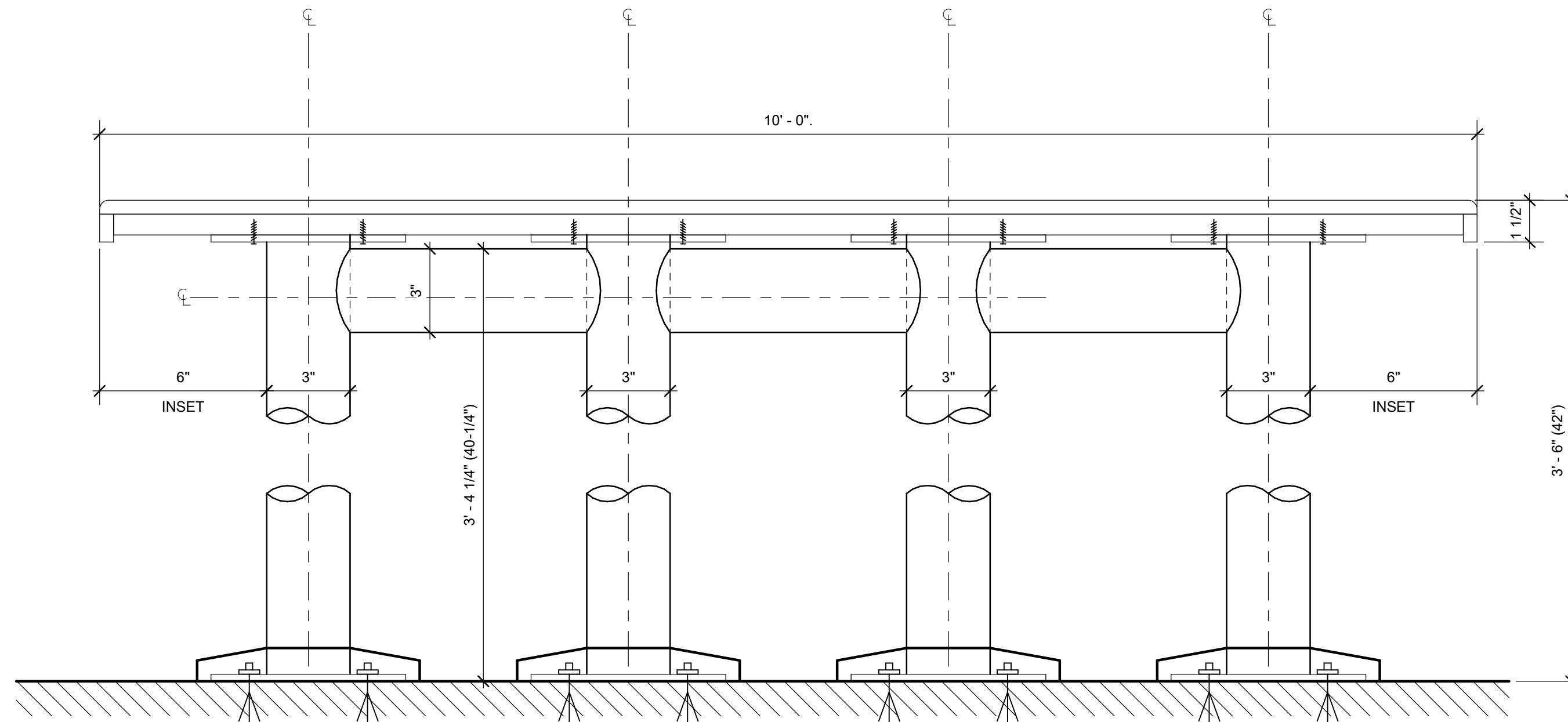
B5 SECTION - STANDING BAR
3" = 1'-0" REF A5 / A-501



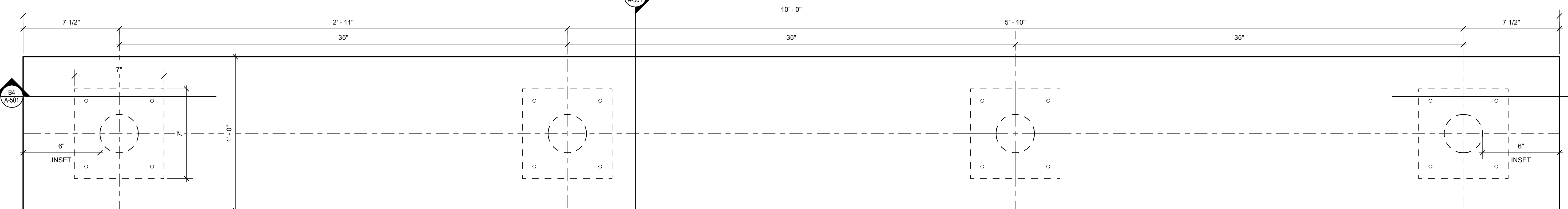
D5 SECTION DETAIL
1 1/2" = 1'-0" REF C5 / A-301



D2 SECTION DETAIL
1 1/2" = 1'-0" REF C5 / A-301



B4 CROSS SECTION @ STANDING BAR
3" = 1'-0" REF A5 / A-501



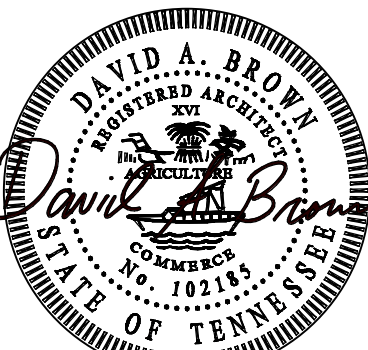
A5 ENLARGED PLAN - STANDING BAR
3" = 1'-0" REF A4 / A-101

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0 Old Hydes Ferry Pike, Ashland City, TN 37015

CLIENT CONTACT:
DHAVAL PATEL
(615)-588-5887 | dhawalom@gmail.com

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nashville, tennessee
e: office@meridiantn.com
t: 615.390.2236
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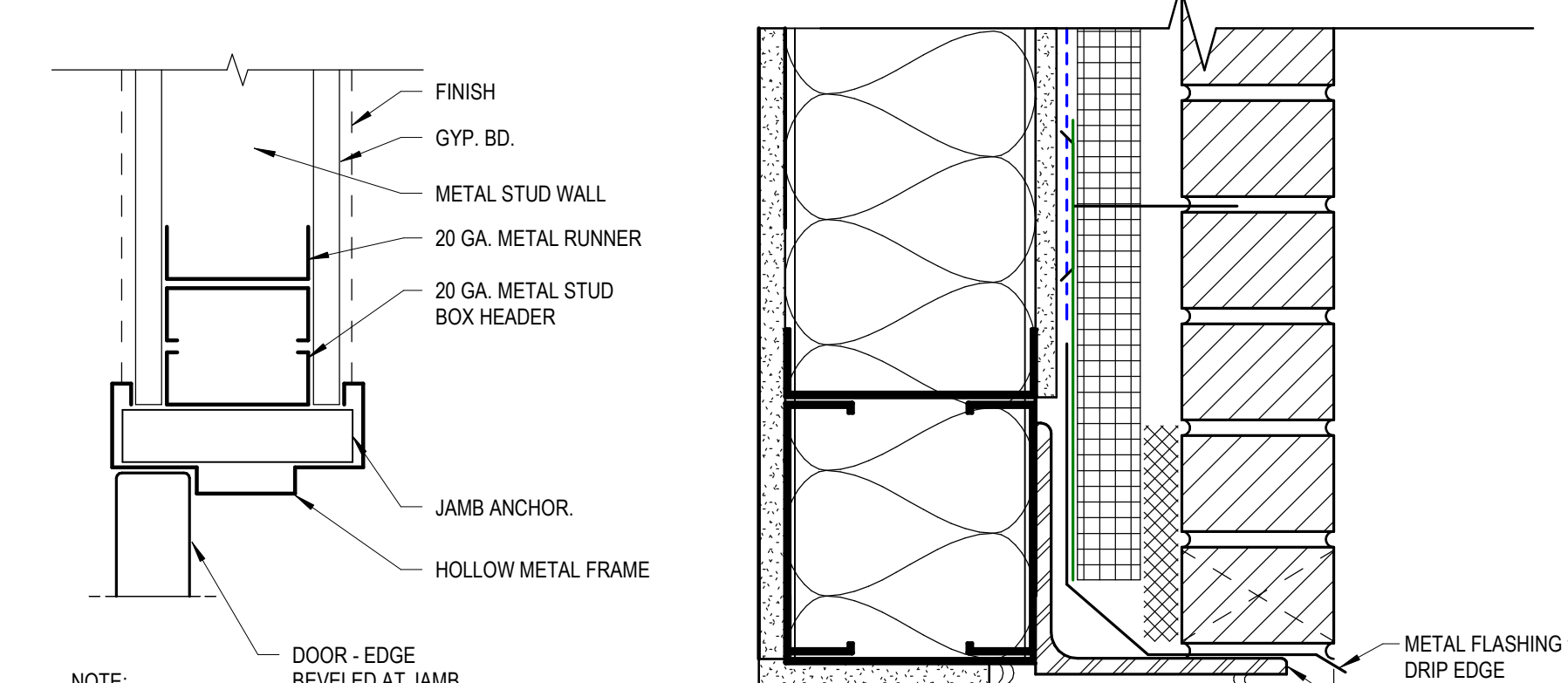
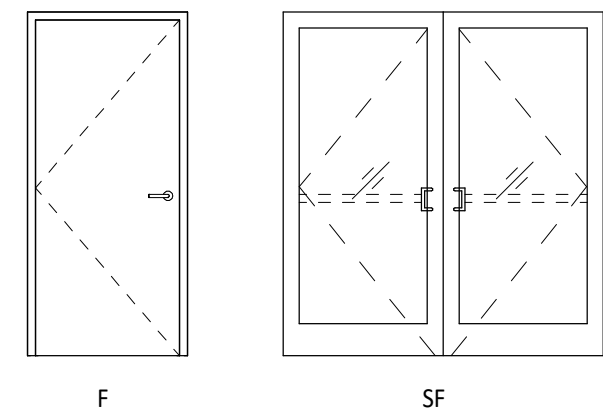
PROJECT PHASE: CD

DRAWN BY: TEAM

EXTERIOR / INTERIOR
DETAILS

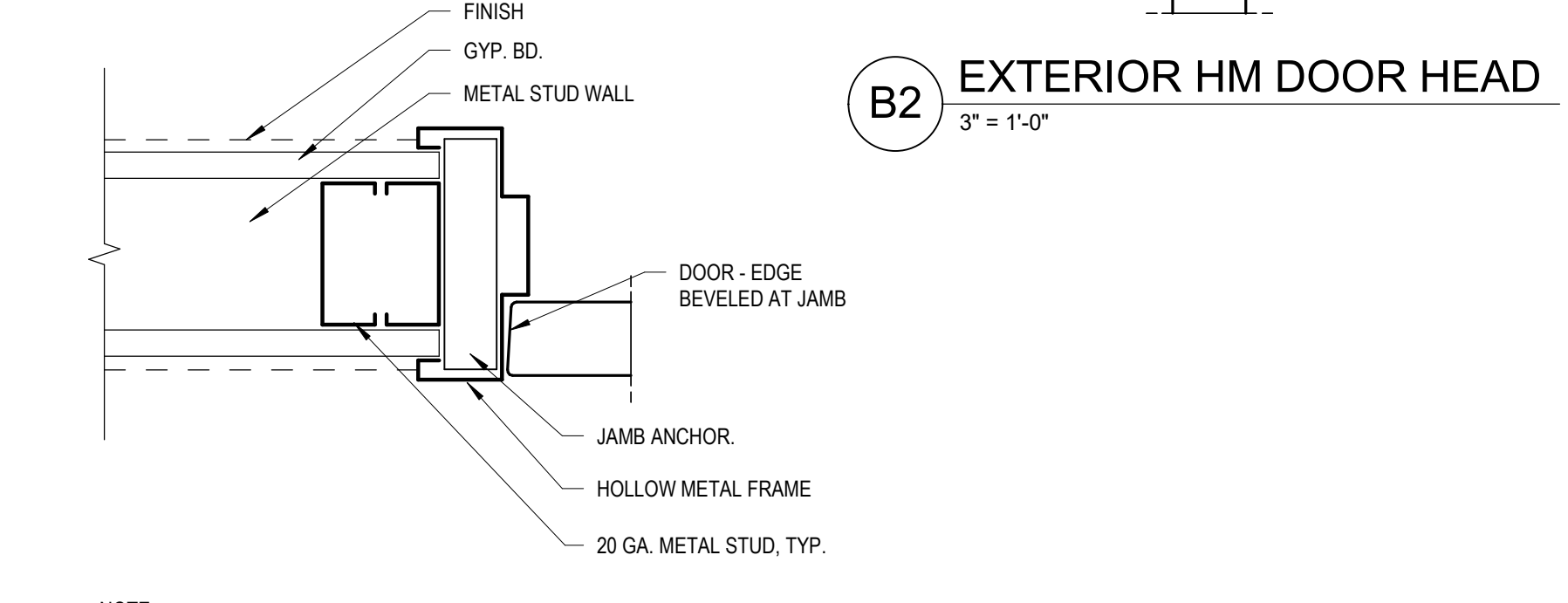
A-501

DOOR AND FRAME SCHEDULE																
Door Number	To Room	Door Size			Door			Door Frame			Details			Remarks		
		Name	Width	Height	Thickness	Door Type	Door Material	Door Finish	Frame Type	Frame Material	Frame Finish	Fire Rating	Hardware		Head	Jamb
FIRST FLOOR																
100	SALES	6'-0"	7'-0"		SF	GL		AL								
119	RECEIVING	3'-0"	7'-0"	1 3/4"	F	HM		HM								
120	OFFICE	3'-0"	7'-0"	1 3/4"	F	HM		HM								
126	MENS	3'-0"	7'-0"	1 3/4"	F	HM		HM								
127	SALES	3'-0"	7'-0"	1 3/4"	F	HM		HM								
128	RECEIVING	3'-0"	7'-0"	1 3/4"	F	HM		HM								
200A	FUTURE TENANT	6'-0"	7'-0"		SF	GL		AL								
200B	FUTURE TENANT	3'-0"	7'-0"	1 3/4"	F	MH		HM								
200C	FUTURE TENANT	3'-0"	7'-0"	1 3/4"	F	HM		HM								

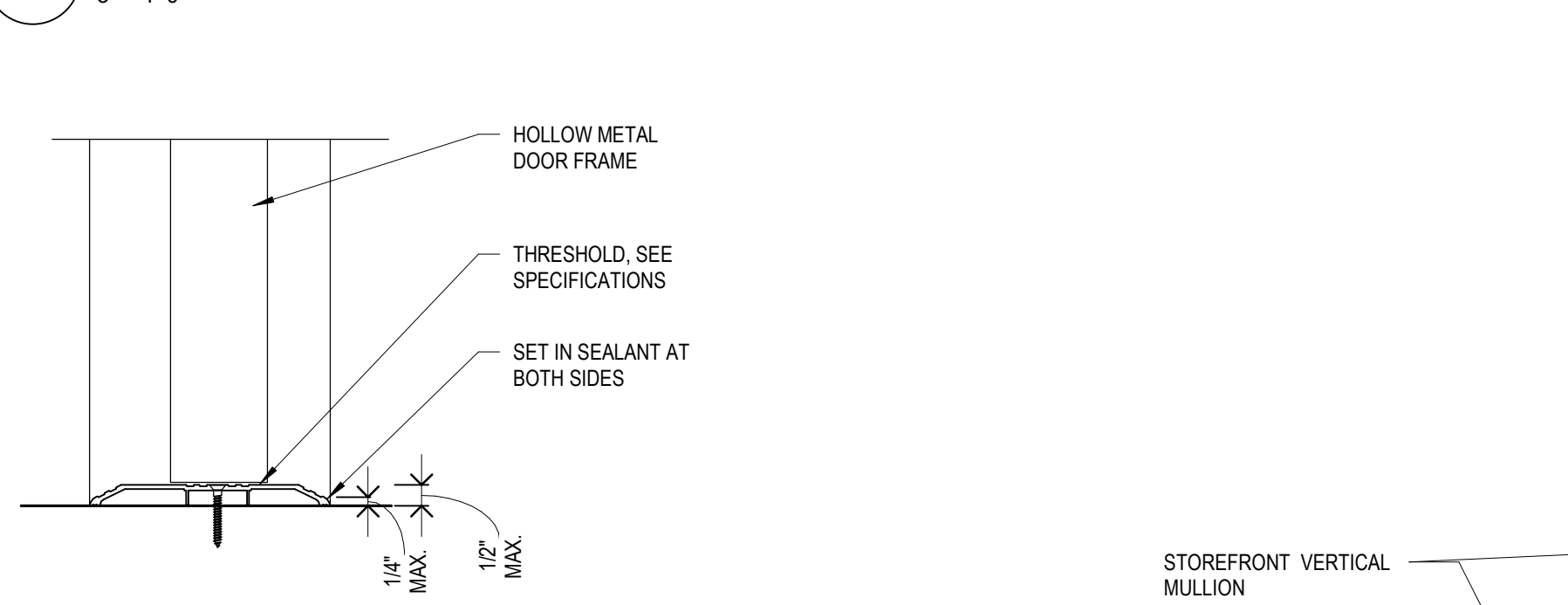


E2 DTL-INTERIOR DOOR HEAD
3" = 1'-0"

B2 EXTERIOR HM DOOR HEAD
3" = 1'-0"



D2 DTL-INTERIOR DOOR JAMB
3" = 1'-0"



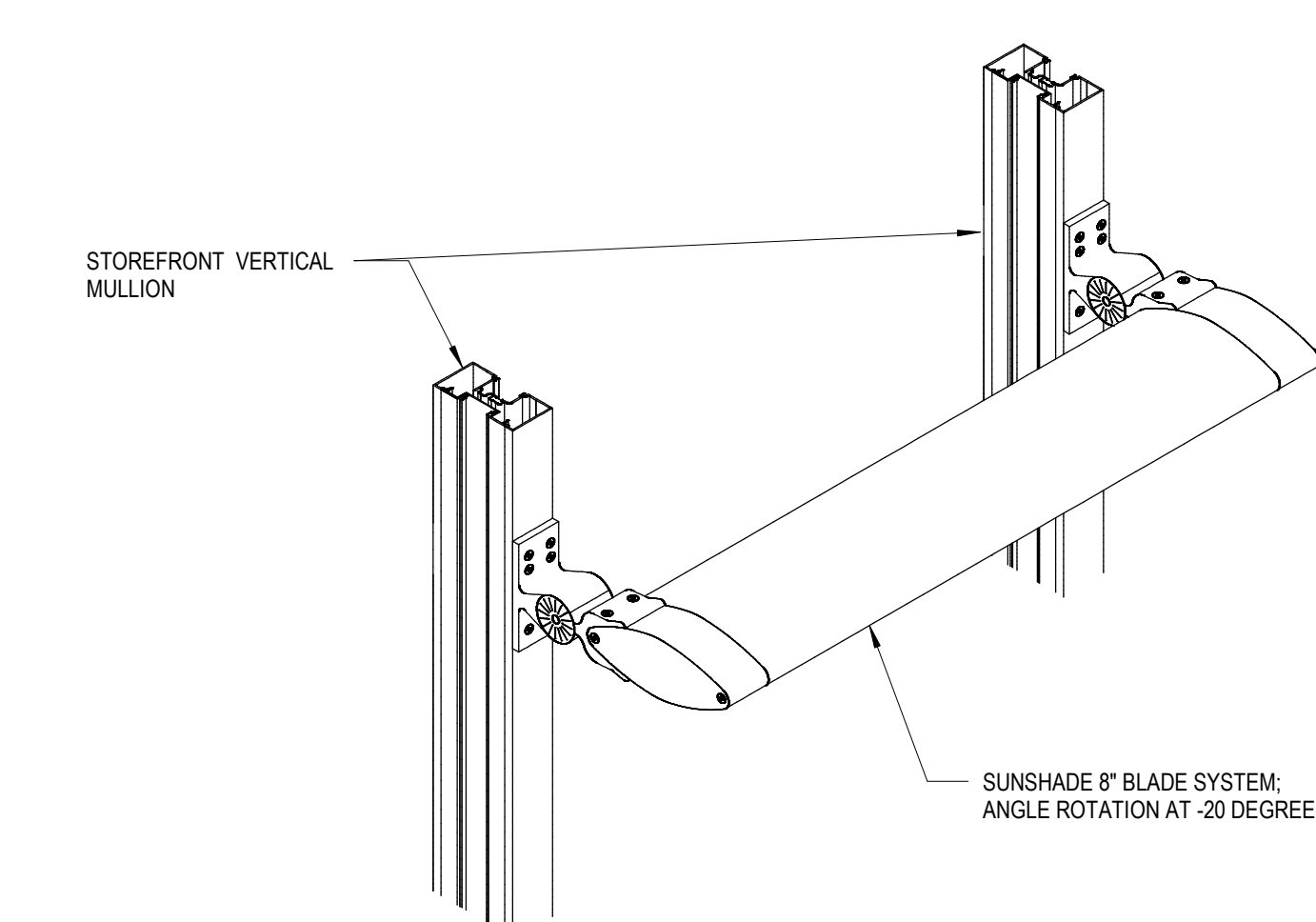
C2 DTL-INTERIOR DOOR SILL
3" = 1'-0"

DOOR & WINDOW GENERAL NOTES

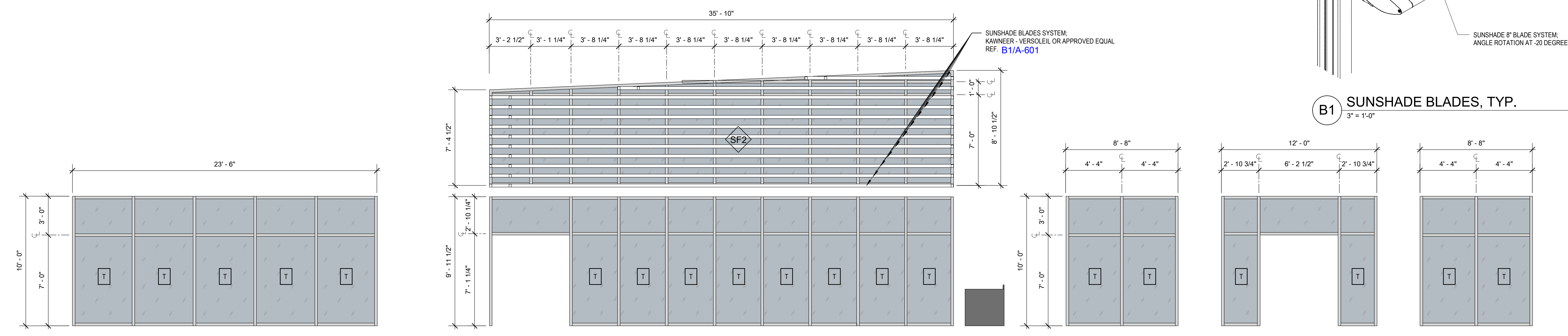
- A. Fire Protection Glazing - Glazing in Fire Window assemblies shall be fire protection rated in accordance with the requirements of IBC section 715.
- B. Safety Glazing - All glazing at hazardous locations subject to human impact loads shall comply with IBC section 2406.
- C. Refer to Accessible Details for plumbing fixtures and accessories installation.

SCHEDULE LEGEND

MATERIAL	HM HOLLOW METAL SC SOLID CORE WOOD AL ALUMINUM STD MANUFACTURER'S STANDARDS
FACING	WP WOOD VENEER - PAINTED WV WOOD VENEER - PREFINISHED PL PLASTIC LAMINATE MP METAL PAINTED AL ANODIZED ALUMINUM STD MANUFACTURER'S STANDARD
FRAME	HM WELDED HOLLOW METAL KD KNOCK DOWN STEEL AL ALUMINUM WD WOOD MFR FRAME BY MANUFACTURER
GLASS	LSG LAMINATED SAFETY GLASS MR MIRROR PC POLYCARBONATE T TEMPERED GLASS FRG FIRE RATED GLASS
ACCESSORIES	AO AUTOMATIC OPERATOR W/ PUSH BUTTON HO MAGNETIC HOLD OPEN
RATING	20, 45, 60 ASSEMBLY RATING IN MINUTES
HARDWARE	H-# HARDWARE SET NUMBER PER SECTION 087100



B1 SUNSHADE BLADES, TYP.
3" = 1'-0"



A5 STOREFRONT ELEVATION
1/4" = 1'-0" REF A4 / A-101

B1 SUNSHADE BLADES, TYP.
3" = 1'-0"

NOTE: ALL GLAZING WITHIN STOREFRONT SYSTEMS TO HAVE A 1" (IGU) INSULATED GLAZING UNIT

ASHLAND CITY C-STORE

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nashville, tennessee
e: office@meridiantn.com
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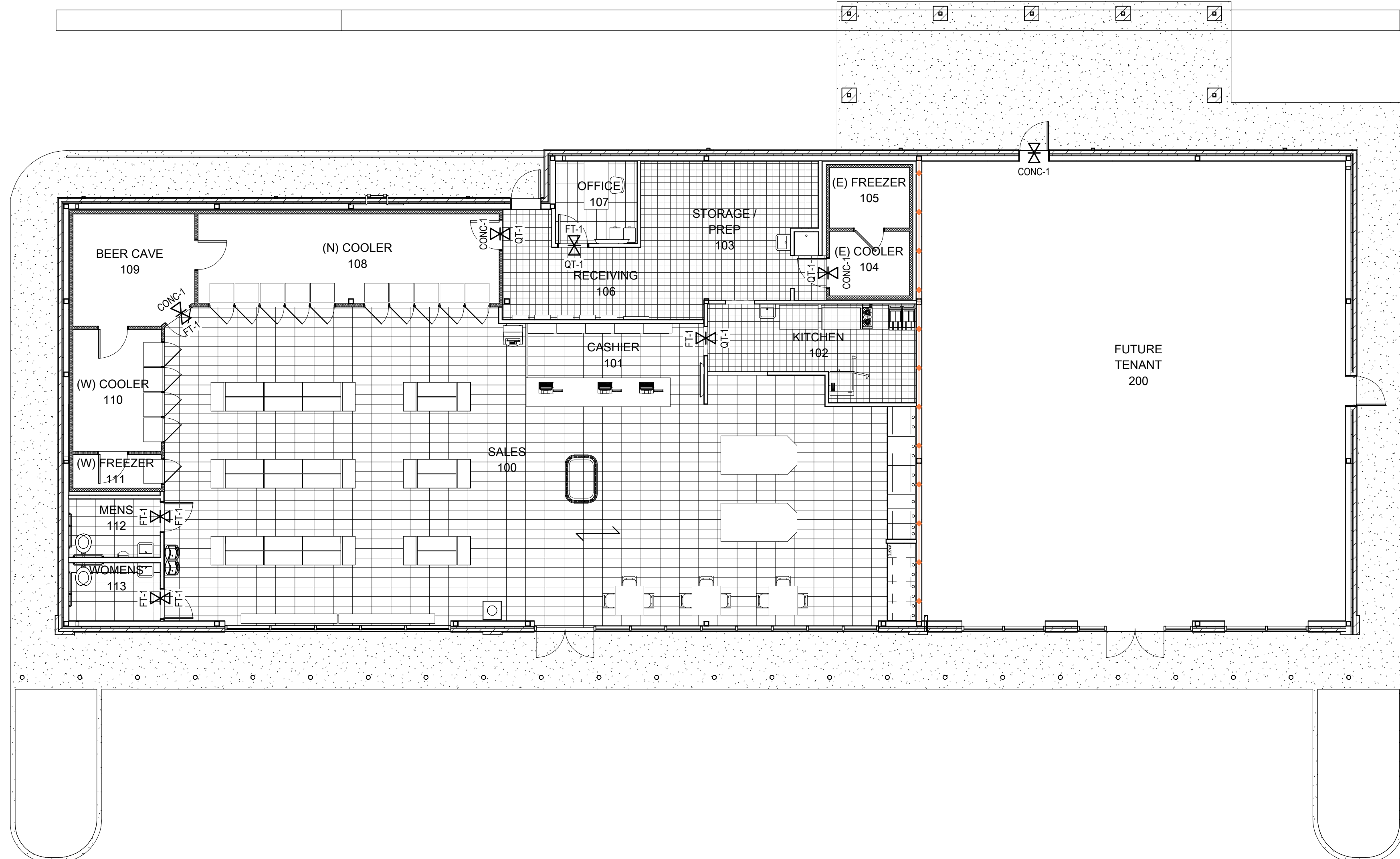
DOOR & WINDOW SCHEDULES, ELEVATIONS

A-601

ITEM # 4

ROOM FINISH SCHEDULE							
ROOM NO.	ROOM NAME	FLOOR	BASE	WALL	CEILING	CEILING HEIGHT	NOTES
100	SALES	FT-1	RB-1	PNT-1/PNT-2	WD-1 / PNT-2	SEE RCP	SEE INT. ELEVATIONS FOR WALL PAINT TRANSITION
101	CASHIER	FT-1	RB-1	PNT-1/PNT-2	ACT-1/ PNT-1	SEE RCP	SEE INT. ELEVATIONS FOR WALL PAINT TRANSITION
104	KITCHEN	QT-1	QT-1	FRP-1	ACT-1	SEE RCP	
118	BEER CAVE	CONC-1	--	--	NO CEILING	N/A	
119	(N) COOLER	CONC-1	--	--	NO CEILING	N/A	
120	OFFICE	FT-1	RB-1	PNT-1	PNT-1	SEE RCP	
121	STORAGE / PREP	QT-1	QT-1	FRP-1	ACT-1	SEE RCP	
122/123	COOLER / FREEZER	CONC-1	--	--	NO CEILING	N/A	
124	(W) COOLER	CONC-1	--	--	NO CEILING	N/A	
125	(W) FREEZER	CONC-1	--	--	NO CEILING	N/A	
126	MENS RESTROOM	PT-1	PT-1	PT-1	PNT-1	SEE RCP	
127	WOMENS RESTROOM	PT-1	PT-1	PT-1	PNT-1	SEE RCP	
128	RECEIVING	QT-1	QT-1	PT-1	PNT-1	SEE RCP	

ROOM FINISH LEGEND						
DESIGNATION	DESCRIPTION	SIZE	COLOR	MANUFACTURER	PRODUCT	NOTES
CONC-1	SEALED CONCRETE	--	--	--	--	--
FRP-1	FIBERGLASS REINFORCED PANEL	--	WHITE	--	--	TRIM PIECES AT TRANSITIONS AND PERIMETER
FT-1	CERAMIC	12" x 24"	METRO CREAM	EMSER	--	HONED
PNT-1	PAINT	--	ANTIQUE WHITE	SHERWIN WILLIAMS	#SW6119	--
PNT-2	PAINT	--	TRICORN BLACK	SHERWIN WILLIAMS	#SW6258	--
RB-1	RESILENT COVERED RUBBER WALL BASE	4"	EBONY	ARMSTRONG	#R48EB	--
QT-1	QUARRY TILE	6" x 6"	DIABLO RED	DAL-TILE	#0T01	--
ACT-1	ACOUSTICAL CEILING TILE	2' x 2'	WHITE	ARMSTRONG	CLEANROOM VL	SCRUBBABLE/WASHABLE CEILING TILE
GYP-1	GYPSUM BOARD	--	PT-1 (SEE ABOVE)	--	--	--
GYP-2	GYPSUM BOARD	--	PT-1 (SEE ABOVE)	--	--	WATER RESISTANT GYP. BD. IN WET AREAS
WD-1						



A1 FIRST FLOOR FINISH PLAN
 1/8" = 1'-0" REF A5 / A-201

- FINISH PLAN GENERAL NOTES**
- A. All flooring materials to meet at center of doorway UNO.
 - B. All flooring materials continue under casework to toe kick or under open counter to wall.
 - C. Interior door frames to be painted Sherwin Williams, Color: SW1076. Finish: Semi-gloss enamel, UNO.
 - D. Refer to Reflected Ceiling Plan sheet(s) for soffit ceiling finishes.

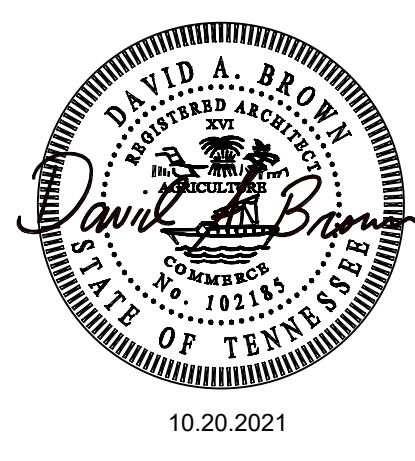
10/20/2021 1:33:35 PMMERIDIAN ARCHITECTURE 0214-21 / ASHLAND CITY C-STORE - DHAVAL PATEL / SCHEMATIC DESIGN / A-701- FIRST FLOOR FINISH PLAN

ASHLAND CITY C-STORE

DHAVAL PATEL
 0 Old Hydes Ferry Pike, Ashland City, TN 37015

CLIENT CONTACT:
 DHAVAL PATEL
 (615) 598-5887 | dhawalom@gmail.com

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nashville, tennessee
 e: office@meridiantn.com
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 DRAWN BY: TEAM

FIRST FLOOR FINISH PLAN

A-701

ITEM # 4

QUOTE DRAWING
Sign below for acceptance
X

By signing here, you agree to our terms and conditions as outlined on www.uscooler.com/terms. Final configuration subject to U.S. Cooler final approval. A facsimile or emailed approval of this drawing 555187-0 shall have the same force and effect as a signed original and shall, upon receipt by Brew Cave, be binding on both parties.

Materials:
ExtMetal: Galvalume
IntMetal: Galvalume
Foam: Extruded 4in. ceiling support location must be riveted to metal and cam

COMBO: 45'-0" x 25'-0" x 8'-0"

U.S. COOLER
401 DELAWARE ST. • QUINCY, IL 62301
TEL: 217-228-2421 • 800-521-2865 • FAX: 217-228-2424

CUSTOMER
Meridian Architect

Qty	Manufacturer	Model	HP	Electrical	MCA	CmpRLA	CmpLRA	Dimensions DxBxH
Pre-assembled Remote Med Temp R404A Air Cooled Outdoor Condensing Unit								
1	Russell	RFH200E4SDA	2	208-230/1Phase/60Hz	15	9.8	56	28.25"x39.875"x18.75"
1	Russell	RL6A130ADAA		115/1Phase/60Hz	1.6			15.5"x43.625"x18.125"
Pre-assembled Remote Med Temp R404A Air Cooled Outdoor Condensing Unit								
1	Russell	RF0150E4SDA	1.5	208-230/1Phase/60Hz	11.3			28.25"x39.875"x18.75"
1	Russell	RL6A117ADAA		115/1Phase/60Hz	1.6			15.5"x43.625"x18.125"

To aid in packing, please indicate with an X the corner where installation will be starting.

(1) Opening for 1 set of 1 Anthony 36 x 81 Entry Glass Doors to be 3'-1 3/8" X 6'-9" - centered on angle wall - sill to be 0" Glass Doors are on a separate quote.
(2) Opening for 1 set of 11 Anthony 30 x 75 Glass Doors to be 10'-3 1/8" X 6'-3 1/4" - centered on front 31'-8" wall - sill to be 6" Glass Doors are on a separate quote.
(3) Opening for 1 set of 4 Anthony 30 x 75 Glass Doors to be 10'-3 1/8" X 6'-3 1/4" - centered on right 11'-10" wall - sill to be 6" Glass Doors are on a separate quote.

E5 COOLER COMBO WITH BREW CAVE
1" = 1'-0"

QUOTE DRAWING
Sign below for acceptance
X

By signing here, you agree to our terms and conditions as outlined on www.uscooler.com/terms. Final configuration subject to U.S. Cooler final approval. A facsimile or emailed approval of this drawing 555183-0 shall have the same force and effect as a signed original and shall, upon receipt by U.S. Cooler, be binding on both parties.

Materials:
ExtMetal: Galvalume
IntMetal: Galvalume
Foam: Extruded 4in.

Freezer: 9'-10" x 4'-2" x 8'-0"

Scale: 3/8" = 1'

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CUSTOMER
Meridian Architect

Qty	Manufacturer	Model	HP	Electrical	MCA	CmpRLA	CmpLRA	Dimensions DxBxH
Pre-assembled Remote Low Temp R404A Air Cooled Outdoor Condensing Unit								
1	Russell	RFH150L44DA	1.5	208-230/1Phase/60Hz	10.3	59.2		28.25"x27.675"x18.75"
1	Russell	RL6E042DDAA		208-230/1Phase/60Hz	5.4			15.5"x27.125"x18.125"

To aid in packing, please indicate with an X the corner where installation will be starting.

A5 FREEZER
1" = 1'-0"

QUOTE DRAWING
Sign below for acceptance
X

By signing here, you agree to our terms and conditions as outlined on www.uscooler.com/terms. Final configuration subject to U.S. Cooler final approval. A facsimile or emailed approval of this drawing 555182-0 shall have the same force and effect as a signed original and shall, upon receipt by U.S. Cooler, be binding on both parties.

Materials:
ExtMetal: Galvalume
IntMetal: Galvalume
Foam: Extruded 4in.

COMBO: 14'-0" x 9'-0" x 8'-0"
COOLER: 7'-0" x 9'-0" x 8'-0"
FREEZER: 7'-0" x 9'-0" x 8'-0"

Scale: 1/4" = 1'

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CUSTOMER
Meridian Architect

Qty	Manufacturer	Model	HP	Electrical	MCA	CmpRLA	CmpLRA	Dimensions DxBxH
Pre-assembled Remote Med Temp R404A Air Cooled Outdoor Condensing Unit								
1	Russell	RF0060M4SDA	0.5	208-230/1Phase/60Hz	10.7	5.4	36	28.25"x27.875"x16.75"
1	Russell	RL6A06ADAA		115/1Phase/60Hz	0.8			15.5"x27.125"x18.125"
Pre-assembled Remote Low Temp R404A Air Cooled Outdoor Condensing Unit								
1	Russell	RF0180E4SDA	1.75	208-230/1Phase/60Hz	10.8		56	28.25"x39.875"x18.75"
1	Russell	RL6E049DDA		208-230/1Phase/60Hz	5.4			15.5"x27.125"x18.125"

To aid in packing, please indicate with an X the corner where installation will be starting.

E1 COOLER FREEZER COMBO
1" = 1'-0"

REFER TO U.S. COOLER QUOTE
No. 555187 Rev 1 & Rev 2 for more detailed specifications.
Contact U.S. Cooler for more information.

REVISIONS:

DELTA	DESCRIPTION	DATE

DATE OF ISSUE: 10.20.2021

MA PROJECT NO: 0214-21

PROJECT PHASE: CD

DRAWN BY: TEAM

FOR INFORMATION
ONLY - COOLER /
FREEZER

A-800

Abbreviations

Table with 4 columns: Abbreviation, Description, Abbreviation, Description. Lists various construction terms like AFF, Approx, Arch, Bldg, etc.

Design Criteria

Building Codes:

Table with 2 columns: Code, Description. Lists 2015 International Building Code (IBC) and ASCE 7-10.

Roof Loads:

Table with 2 columns: Load Type, Value. Lists Dead Load, Live Load, and Ground Snow Load.

Wind Loads (Per ASCE 7-10):

Table with 2 columns: Parameter, Value. Lists Ultimate Wind Speed, Nominal Wind Speed, Risk Category, Internal Pressure Coeff, and Wind Exposure.

Seismic Loads (Per ASCE 7-10):

Table with 2 columns: Parameter, Value. Lists Spectral Response Coefficients (Ss, S1, Sds, Sd1) and Soil Site Class.

Shallow Foundations

- 1. Foundations are designed based upon assumed soil bearing capacities as stated below.
2. Allowable soil bearing pressures used in design: Spread footings = 1500 psf / Continuous footing = 1500 psf
3. Footing excavations shall be observed and tested by an experienced geotechnical engineer...

General Notes

- 1. No provision of any referenced standard specification, manual or code (whether or not specifically incorporated by reference in the contract documents) shall be effective to change the duties and responsibilities of the owner, contractor, architect, engineer, supplier, or any of the consultants, agents, or employees from those set forth in the contract documents...
2. Reference to standard specifications (concerning structural design) of any technical society, organization, or association...

Concrete

- 1. All phases of work pertaining to the concrete construction shall conform to the "Building Code Requirements for Structural Concrete" (ACI 318), latest edition with modifications as noted in the drawings or specifications.
2. Concrete mixes shall be designed by a qualified testing laboratory and approved by the structural engineer.
3. All exposed corners or edges of columns, piers, walls, etc., shall be formed with a 3/4" chamfer unless noted otherwise on structural or architectural drawings.

Table with 7 columns: Use (Location), 28 Day Strength, Aggregate Size (Max.), Cement/CY (Min.), W/C ratio (Max.), Slump (Max.), Air Entrainment. Lists values for Slab-on-grade, Exposed Concrete, and Footings.

Reinforcing

- 1. Reinforcing shall be detailed and placed in conformance with ACI Detailing Manual.
2. Reinforcing bars shall conform to the requirements of ASTM A615 Grade 60 except all reinforcing in concrete moment frames and shear walls and all welded reinforcement shall conform to ASTM A706 Grade 60.
3. Welded wire fabric shall conform to ASTM A185.

Metal Decking

- 1. Provide design, fabrication, and erection of metal deck conforming to the Steel Deck Institute's "Code of Recommended Standard Practice and Basic Design Specifications".
2. Form roof deck from steel sheets conforming to ASTM A611 or A653 or higher specifications with minimum yield strength of 33 ksi.
3. Attach sheets to steel support members as indicated and in accordance with the manufacturer's instructions for installation.

Structural Steel

- 1. Structural steel shall conform to:
- W-Shapes = A992
- Pipe columns = ASTM A53 type E or S Grade B.
- HSS = ASTM A500 Grade B.
- Plates, Channels, Angles, Misc. etc. = A36
2. Design, fabrication, and erection shall be in accordance with aisc specification for the design, fabrication, and erection of structural steel buildings.

Bar Joist

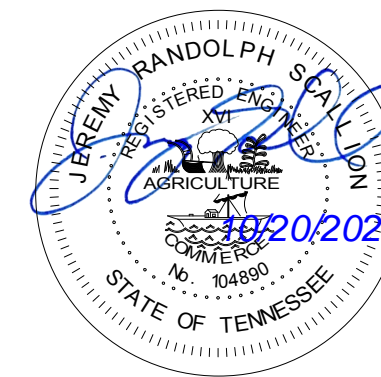
- 1. Provide open web under slung, parallel chord joists and joist girders unless noted otherwise on the drawings.
2. Design, fabricate, and erect open web steel joists and joist girders to the specifications of the Steel Joist Institute, latest edition.
3. Unless noted otherwise, weld K-series joists to supporting beams or bearing plates with 1/8 inch fillet weld, 2 inches long on each side of joist seat.

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DHAVAL PATEL
(615) 598-5887 | dhawalom@gmail.com

MERIDIAN ARCHITECTURE



nashville, tennessee
e: office@meridiantn.com
t: 615.390.2236
www.meridiantn.com

REVISIONS:

Table with 3 columns: DELTA, DESCRIPTION, DATE. Lists revision details for the drawing.

DATE OF ISSUE: 10/20/2021

MA PROJECT NO: 0214-21

PROJECT PHASE: CD

DRAWN BY: JRS

General Notes

S1.0

Table with 2 columns: Sheet No., Sheet Name. Lists drawing sheets from S1.0 to S6.2.

STRUCTURAL QUALITY ASSURANCE PLAN

GENERAL

THIS STRUCTURAL QUALITY ASSURANCE PLAN IDENTIFIES THE RESPONSIBILITIES OF THE CONTRACTOR AND THE SPECIAL INSPECTOR IN PERFORMING THE TESTING AND INSPECTION OF THE WORK REQUIRED BY CHAPTER 17 OF THE 2015 INTERNATIONAL BUILDING CODE THAT IS WITHIN THE SCOPE OF THE STRUCTURAL ENGINEERING SERVICES FOR THIS PROJECT. REFER TO OTHER PORTIONS OF THE CONSTRUCTION DOCUMENTS FOR TESTING AND INSPECTIONS REQUIRED OF ARCHITECTURAL, MECHANICAL, ELECTRICAL, OR OTHER BUILDING COMPONENTS.

CONTRACTOR RESPONSIBILITIES

THE CONTRACTOR SHALL SUBMIT TO THE BUILDING OFFICIAL AND THE ARCHITECT A WRITTEN STATEMENT OF RESPONSIBILITY THAT CONTAINS THE FOLLOWING:

1. ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED WITHIN THIS STRUCTURAL QUALITY ASSURANCE PLAN.
2. ACKNOWLEDGMENT THAT CONTROL SHALL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.
3. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING, AND THE DISTRIBUTION OF REPORTS.
4. IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.

THE STRUCTURAL TESTING/INSPECTION AGENCY THAT IS TO ACT AS THE SPECIAL INSPECTOR SHALL BE HIRED BY THE OWNER AND SHALL BE APPROVED BY THE BUILDING OFFICIAL AND THE ARCHITECT. THE CONTRACTOR SHALL SUBMIT WITH HIS BID THE NAME AND QUALIFICATIONS OF THE STRUCTURAL TESTING/INSPECTION AGENCY AND IT PERSONNEL THAT WILL ACT AS THE SPECIAL INSPECTOR. IF MULTIPLE STRUCTURAL TESTING/INSPECTION AGENCIES ARE USED, SUBMIT THE INFORMATION STATED ABOVE FOR EACH FIRM ALONG WITH A STATEMENT OF THE SPECIAL INSPECTION RESPONSIBILITIES FOR EACH FIRM.

CONTRACTOR SHALL PAY FOR ANY ADDITIONAL STRUCTURAL TESTING /INSPECTION REQUIRED FOR WORK OR MATERIALS NOT COMPLYING WITH THE CONSTRUCTION DOCUMENTS DUE TO NEGLIGENCE OR NONCONFORMANCE AND SHALL PAY FOR ANY ADDITIONAL STRUCTURAL TESTING/ INSPECTION REQUIRED FOR HIS CONVENIENCE.

CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE SPECIAL INSPECTOR IS PRESENT FOR ALL WORK REQUIRING SPECIAL INSPECTION. ANY WORK THAT REQUIRES SPECIAL INSPECTION AND IS PERFORMED WITHOUT THE SPECIAL INSPECTOR BEING PRESENT IS SUBJECT TO BEING DEMOLISHED AND RECONSTRUCTED.

CONTRACTOR HAS THE FOLLOWING RESPONSIBILITIES TO THE SPECIAL INSPECTOR:

1. PROVIDE COPY OF CONSTRUCTION DOCUMENTS TO THE SPECIAL INSPECTOR.
2. NOTIFY THE SPECIAL INSPECTOR SUFFICIENTLY IN ADVANCE OF OPERATIONS TO ALLOW ASSIGNMENT OF PERSONNEL AND SCHEDULING OF TESTS.
3. COOPERATE WITH SPECIAL INSPECTOR AND PROVIDE ACCESS TO WORK.
4. PROVIDE SAMPLES OF MATERIALS TO BE TESTED IN REQUIRED QUANTITIES.
5. PROVIDE STORAGE SPACE FOR THE SPECIAL INSPECTOR'S EXCLUSIVE USE, SUCH AS FOR STORING AND CURING CONCRETE TESTING SAMPLES.
6. PROVIDE LABOR TO ASSIST THE SPECIAL INSPECTOR IN PERFORMING TESTS/ INSPECTIONS.

SPECIAL INSPECTOR RESPONSIBILITIES

SPECIAL INSPECTOR SHALL MAINTAIN RECORDS OF INSPECTIONS IN ACCORDANCE WITH CHAPTER 17 OF THE 2015 INTERNATIONAL BUILDING CODE AND SHALL DISTRIBUTE THESE RECORDS TO THE BUILDING OFFICIAL, ARCHITECT, AND STRUCTURAL ENGINEER ON A REGULAR BASIS. AT THE CONCLUSION OF THE PROJECT, THE SPECIAL INSPECTOR SHALL SUBMIT A WRITTEN STATEMENT THAT THE SPECIAL INSPECTIONS DURING CONSTRUCTION HAVE COMPLIED WITH THE STRUCTURAL QUALITY ASSURANCE PLAN AND THAT ANY DISCREPANCIES NOTED DURING CONSTRUCTION HAVE BEEN CORRECTED.

CAST-IN-PLACE CONCRETE:

CONTRACTOR SHALL PERFORM THE FOLLOWING:

1. SUBMIT MANUFACTURER'S DATA FOR TENSILE AND COMPRESSIVE SPLICES.
2. ESTABLISH CONCRETE MIX DESIGN PROPORTIONS PER ACI 318, CHAPTER 5. SUBMIT THREE COPIES OF THE CONCRETE MIX DESIGNS. INCLUDE THE FOLLOWING:
 - 2.1 TYPE AND QUANTITIES OF MATERIALS
 - 2.2 SLUMP
 - 2.3 AIR CONTENT
 - 2.4 FRESH UNIT WEIGHT
 - 2.5 AGGREGATES SIEVE ANALYSIS
 - 2.6 DESIGN COMPRESSIVE STRENGTH
 - 2.7 LOCATION OF PLACEMENT IN STRUCTURE
 - 2.8 METHOD OF PLACEMENT
 - 2.9 METHOD OF CURING
 - 2.10 7-DAY AND 28-DAY COMPRESSIVE STRENGTHS
3. SUBMIT A CERTIFICATION FROM EACH MANUFACTURER OR SUPPLIER STATING THAT MATERIALS MEET THE REQUIREMENTS OF THE SPECIFIED ASTM AND ACI STANDARDS.
4. SUBMIT CERTIFICATION THAT THE READY-MIX CONCRETE PLANT COMPLIES WITH THE REQUIREMENTS OF THE NATIONAL READY MIX CONCRETE ASSOCIATION.

SPECIAL INSPECTOR SHALL PERFORM THE FOLLOWING ITEMS
NON REQUIRED THIS PROJECT

STRUCTURAL STEEL:

CONTRACTOR SHALL PERFORM THE FOLLOWING:

1. SUBMIT CERTIFICATION THAT STEEL FABRICATOR IS CERTIFIED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) QUALITY CERTIFICATION PROGRAM FOR: CONVENTIONAL STEEL BUILDINGS.
2. FABRICATOR NOT CERTIFIED BY THE AISC QUALITY CERTIFICATION PROGRAM SHALL HAVE FABRICATION PROCEDURES AND FABRICATED STEEL TESTED AND INSPECTED BY AN INDEPENDENT TESTING AGENCY. PAYMENT OF THESE TESTS AND INSPECTIONS SHALL BE BY THE FABRICATOR. TESTS AND INSPECTIONS SHALL BE PERFORMED BY AWS CERTIFIED WELDING INSPECTORS. PRIOR TO DELIVERY OF STRUCTURAL STEEL TO THE PROJECT, SUBMIT COPIES OF THE INSPECTION REPORTS TO THE STRUCTURAL ENGINEER. THE PURPOSE OF THIS INSPECTION IS TO ENABLE THE TESTING/INSPECTION AGENCY TO VERIFY THAT, IN GENERAL, THE STEEL IS BEING FABRICATED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS. A MINIMUM OF ONE TRIP PER WEEK IS RECOMMENDED. THE FIRST TRIP SHOULD BE SCHEDULED IN THE EARLY STAGES OF FABRICATION. CONTACT STRUCTURAL ENGINEER PRIOR TO INITIAL INSPECTION. TESTS AND INSPECTIONS SHALL INCLUDE THE FOLLOWING:
 - 2.1. EXAMINE MILL TEST REPORTS AND VERIFY THAT MATERIAL BEING USED IS THE SAME AS THE MILL TESTED REPORT.
 - 2.2. REVIEW THE FABRICATOR'S WRITTEN WELDING PROCEDURES. VERIFY THAT THE FABRICATOR'S WELDING PROCEDURES ARE BEING FOLLOWED. VERIFY THAT WELDERS ARE CERTIFIED WITH CURRENT PAPERS AND THAT THEY DEMONSTRATE PROPER TECHNIQUES.
 - 2.3. OBSERVE HIGH STRENGTH BOLTING PROCEDURES. VERIFY THAT SHOP INSTALLATION OF HIGH STRENGTH BOLTS CONFORM TO AISC SPECIFICATIONS.
 - 2.4. EXAMINE JOINT PREPARATION FOR COMPLETE PENETRATION JOINTS. ULTRASONICALLY INSPECT 100% OF THE COMPLETE PENETRATION WELDS.
 - 2.5. EXAMINE FILLET WELDS FOR PROPER SIZE, PROFILE, THROAT, POROSITY AND END RETURNS.
 - 2.6. EXAMINE STEEL MEMBERS FOR LAMELLAR TEARING. SPOT CHECK DIMENSIONS AND HOLE SIZES.
 - 2.7. EXAMINE BOLT AREA BURRS.
3. SUBMIT CERTIFIED MILL TEST REPORTS FOR STRUCTURAL STEEL.
4. SUBMIT MANUFACTURE'S CERTIFICATION OF COMPLIANCE FOR HIGH-STRENGTH BOLTING AND WELD FILLER MATERIALS.

SPECIAL INSPECTOR SHALL PERFORM THE FOLLOWING ITEMS:
SEE SPECIAL INSPECTION TABLE

SPECIAL INSPECTION TABLE: STRUCTURAL STEEL CONSTRUCTION			
VERIFICATION AND INSPECTION	FREQUENCY OF INSPECTION	REFERENCED STANDARD	REMARKS
1. MATERIAL VERIFICATION OF HIGH STRENGTH BOLTS, NUTS AND WASHERS:			
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	PERIODIC	AISC 360, SECTION A3.3 AND APPLICABLE ASTM MATERIAL STANDARDS	
b. MANUFACTURER'S CERTIFICATION OF COMPLIANCE REQUIRED.	PERIODIC		
2. INSPECTION OF HIGH-STRENGTH BOLTING:			
a. SNUG-TIGHT JOINTS.	PERIODIC		
b. PRETENSIONED AND SLIP-DRITICAL JOINTS USING TURN-OF-NUT WITH MATCHMARKING, TWIST-OFF BOLT OR DIRECT TENSION INDICATOR METHODS OF INSTALLATION.	PERIODIC	AISC 360, SECTION M2.5	SEE NOTE 1
c. PRETENSIONED AND SLIP-DRITICAL JOINTS USING TURN-OF-NUT WITHOUT MATCHMARKING OR CALIBRATED WRENCH METHODS OF INSTALLATION.	CONTINUOUS		SEE NOTE 1
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD-FORMED STEEL DECK:			
a. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISC 360.	PERIODIC	AISC 360, SECTION M5.5	
b. FOR OTHER STEEL, IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	PERIODIC	APPLICABLE ASTM MATERIAL STANDARDS SEE DWG. NOTES	
c. MANUFACTURER'S CERTIFIED TEST REPORTS.	PERIODIC		
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:			
a. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.	PERIODIC	AISC 360, SECTION A3.5 AND APPLICABLE AWS AS DOCUMENTS	
b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	PERIODIC		
5. INSPECTION OF WELDING:			
a. STRUCTURAL STEEL AND COLD-FORMED STEEL DECK:			
1) COMPLETE AND PARTIAL PENETRATION GROOVE WELDS.	CONTINUOUS		
2) MULTIPASS FILLET WELDS.	CONTINUOUS		
3) SINGLE-PASS FILLET WELDS > 5/16"	CONTINUOUS	AWS D1.1	
4) PLUG AND SLOT WELDS.	CONTINUOUS		
5) SINGLE-PASS FILLET WELDS <= 5/16"	PERIODIC		
6) FLOOR AND ROOF DECK WELDS.	PERIODIC	AWS D1.3	
b. REINFORCING STEEL:			
1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706.	PERIODIC		SEE NOTE 2
2) REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS OF CONCRETE AND SHEAR REINFORCEMENT.	CONTINUOUS	AWS D1.4 AND ACI 318, SECTION 3.5.2	SEE NOTE 2
3) SHEAR REINFORCEMENT.	CONTINUOUS		SEE NOTE 2
4) OTHER REINFORCING STEEL.	PERIODIC		SEE NOTE 2
6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE:			
a. DETAILS SUCH AS BRACING AND STIFFENING.	PERIODIC	VERIFICATION WITH DESIGN DOCUMENTS AND APPROVED SHOP DRAWINGS	
b. MEMBER LOCATIONS.	PERIODIC		
c. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.	PERIODIC		

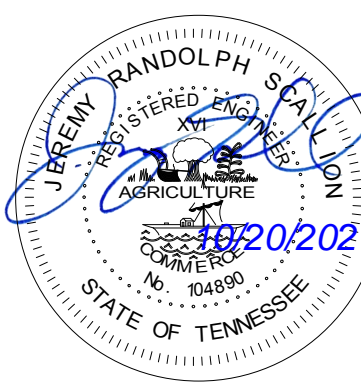
TABLE NOTES:

1. INSPECTION NOT REQUIRED; NO PRETENSIONED OR SLIP-CRITICAL JOINTS INCLUDED IN THIS PROJECT.
2. INSPECTION NOT REQUIRED; NO WELDING OF REINFORCING STEEL INCLUDED IN THIS PROJECT.

SPECIAL INSPECTION TABLE: SOILS		
VERIFICATION AND INSPECTION	FREQUENCY OF INSPECTION	REFERENCED STANDARD
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATION ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	PERIODIC	VERIFICATION WITH DESIGN DOCUMENTS AND GEOTECHNICAL REPORT
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	PERIODIC	
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	PERIODIC	
4. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF FILL.	CONTINUOUS	
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	PERIODIC	

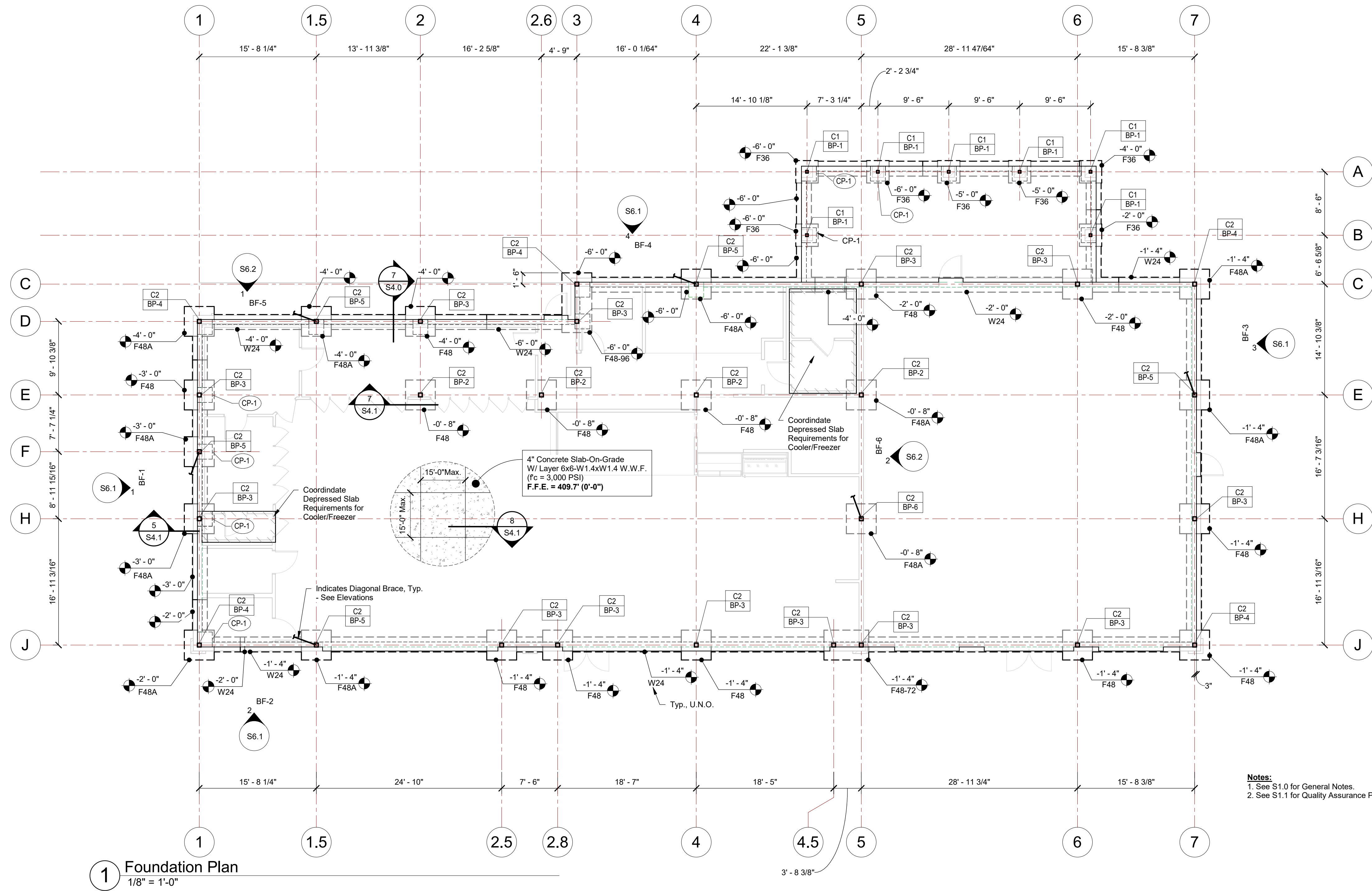
TABLE NOTES:

1. NONE

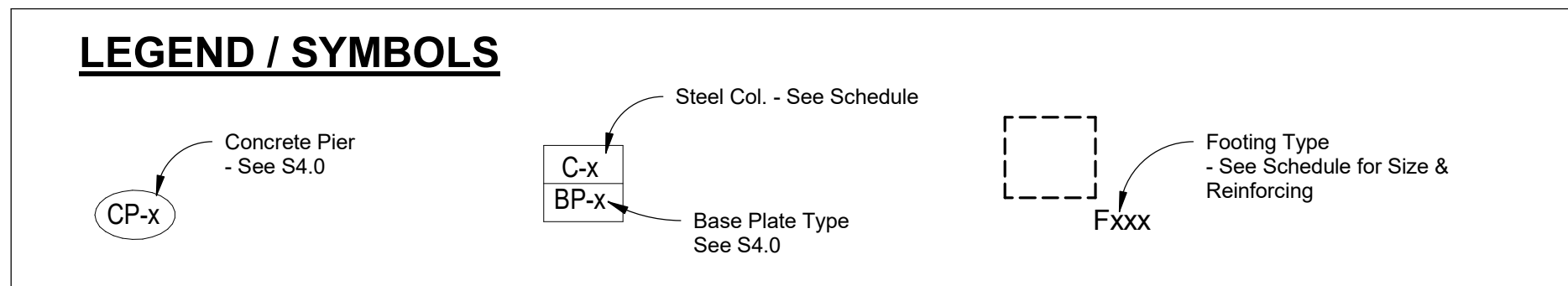


REVISIONS:

DELTA	DESCRIPTION	DATE
DATE OF ISSUE:		10/20/2021
MA PROJECT NO:		0214-21
PROJECT PHASE:		CD
DRAWN BY:		JRS



1 Foundation Plan
1/8" = 1'-0"



COLUMN SCHEDULE

TYPE	COLUMN SIZE
C1	HSS4X4X1/4
C2	HSS6X6X3/8

FOOTING SCHEDULE

Type	Dimensions			Reinforcing		Remarks
	Length	Width	Depth	Longitudinal	Transverse	
F36	3'-0"	3'-0"	1'-3"	(4) #5	(4) #5	
F48	4'-0"	4'-0"	1'-3"	(5) #5	(5) #5	
F48-72	6'-0"	4'-0"	1'-3"	(5) #5	(7) #5	
F48-96	8'-0"	4'-0"	1'-3"	(5) #5	(8) #5	
F48A	4'-0"	4'-0"	1'-3"	(5) #5	(5) #5	Top & Btm

CONTINUOUS WALL FOOTING SCHEDULE

Type	Dimensions		Reinforcing		Remarks
	Width	Depth	Longitudinal	Transverse	
W24	2'-0"	1'-0"	(3) #4 x Cont.	#4 x 1'-6" @ 60" o.c.	

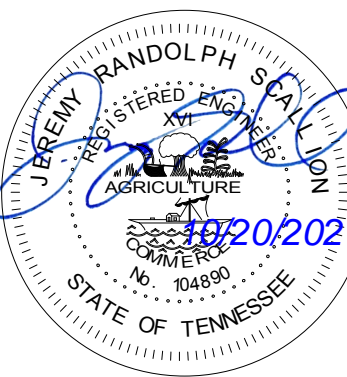
Notes:
1. See S1.0 for General Notes.
2. See S1.1 for Quality Assurance Plan.

ASHLAND CITY C-STORE

DHAVAL PATEL
0 Old Hydes Ferry Pike, Ashland City, TN 37015

CLIENT CONTACT:
DHAVAL PATEL
(615) 598-5887 | dhavalom@gmail.com

MERIDIAN ARCHITECTURE



nashville, tennessee
e: office@meridiantn.com
t: 615.390.2236
www.meridiantn.com

REVISIONS:

DELTA	DESCRIPTION	DATE
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DATE OF ISSUE: 10/20/2021

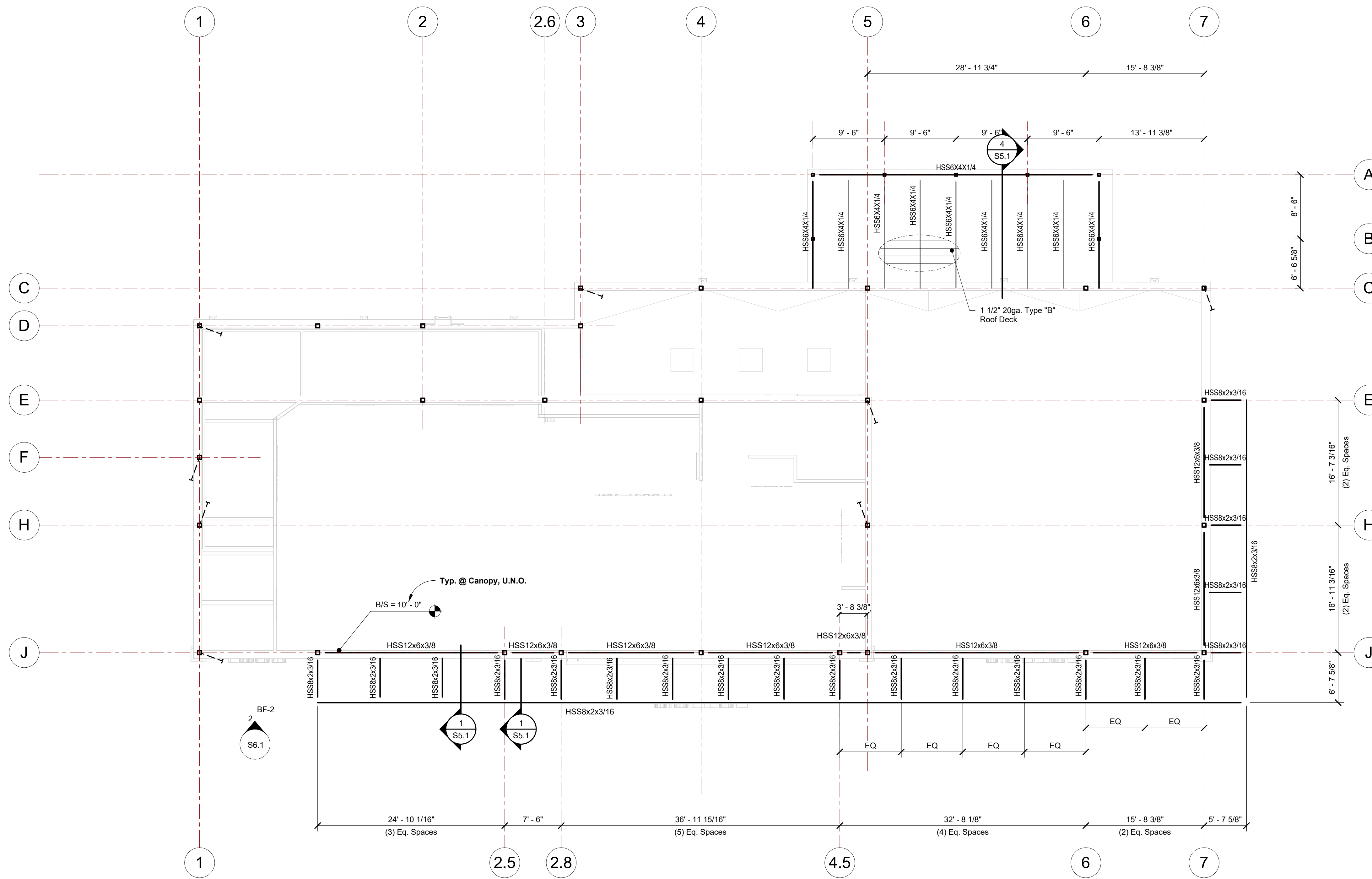
MA PROJECT NO: 0214-21

PROJECT PHASE: CD

DRAWN BY: JRS

Foundation Plan

S2.0



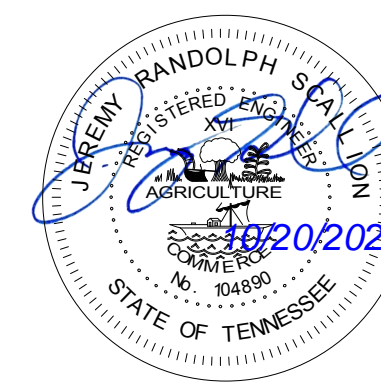
1 Canopy Framing Plan
1/8" = 1'-0"

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0 Old Hydes Ferry Pike, Ashland City, TN 37015

CLIENT CONTACT:
DHAVAL PATEL
(615) -598-5887 | dhawalom@gmail.com

MERIDIAN ARCHITECTURE



nashville, tennessee
e: office@meridiantn.com
t: 615.390.2236
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REVISIONS:		
DELTA	DESCRIPTION	DATE

DATE OF ISSUE: 10/20/2021

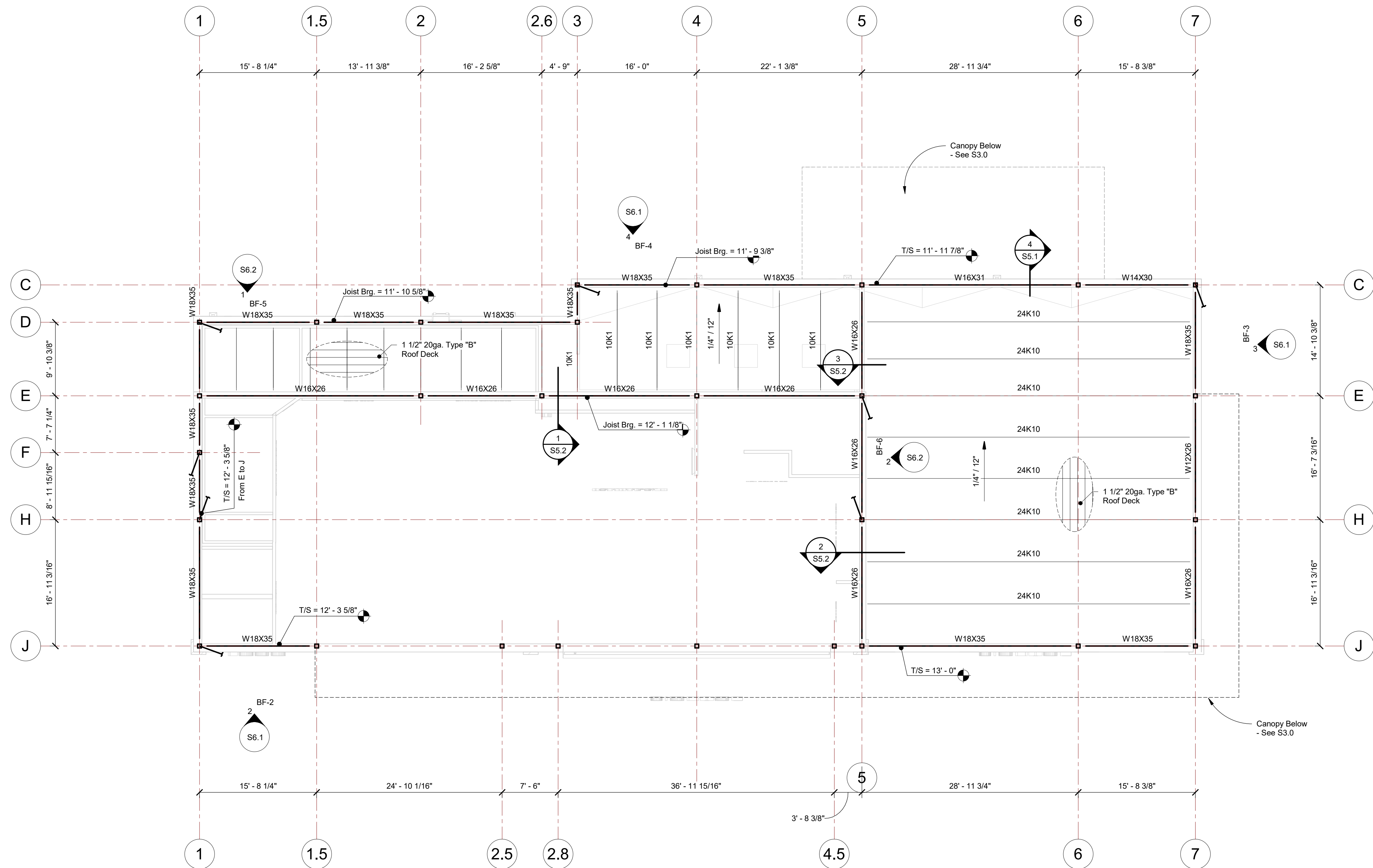
MA PROJECT NO: 0214-21

PROJECT PHASE: CD

DRAWN BY: JRS

Canopy Framing Plan

S3.0



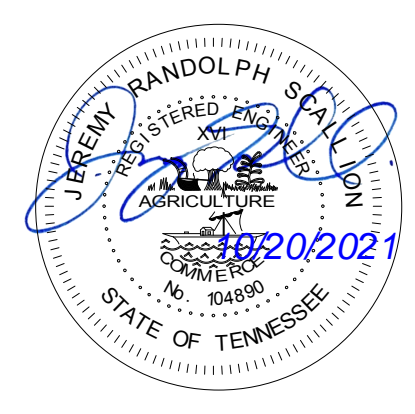
1 Low Roof Framing Plan
1/8" = 1'-0"

ASHLAND CITY C-STORE

DHAVAL PATEL
0 Old Hydes Ferry Pike, Ashland City, TN 37015

CLIENT CONTACT:
DHAVAL PATEL
(615) 598-5887 | dhavalom@gmail.com

MERIDIAN ARCHITECTURE



nashville, tennessee
e: office@meridiantn.com
t: 615.390.2236
www.meridiantn.com

REVISIONS:

DELTA	DESCRIPTION	DATE

DATE OF ISSUE: 10/20/2021

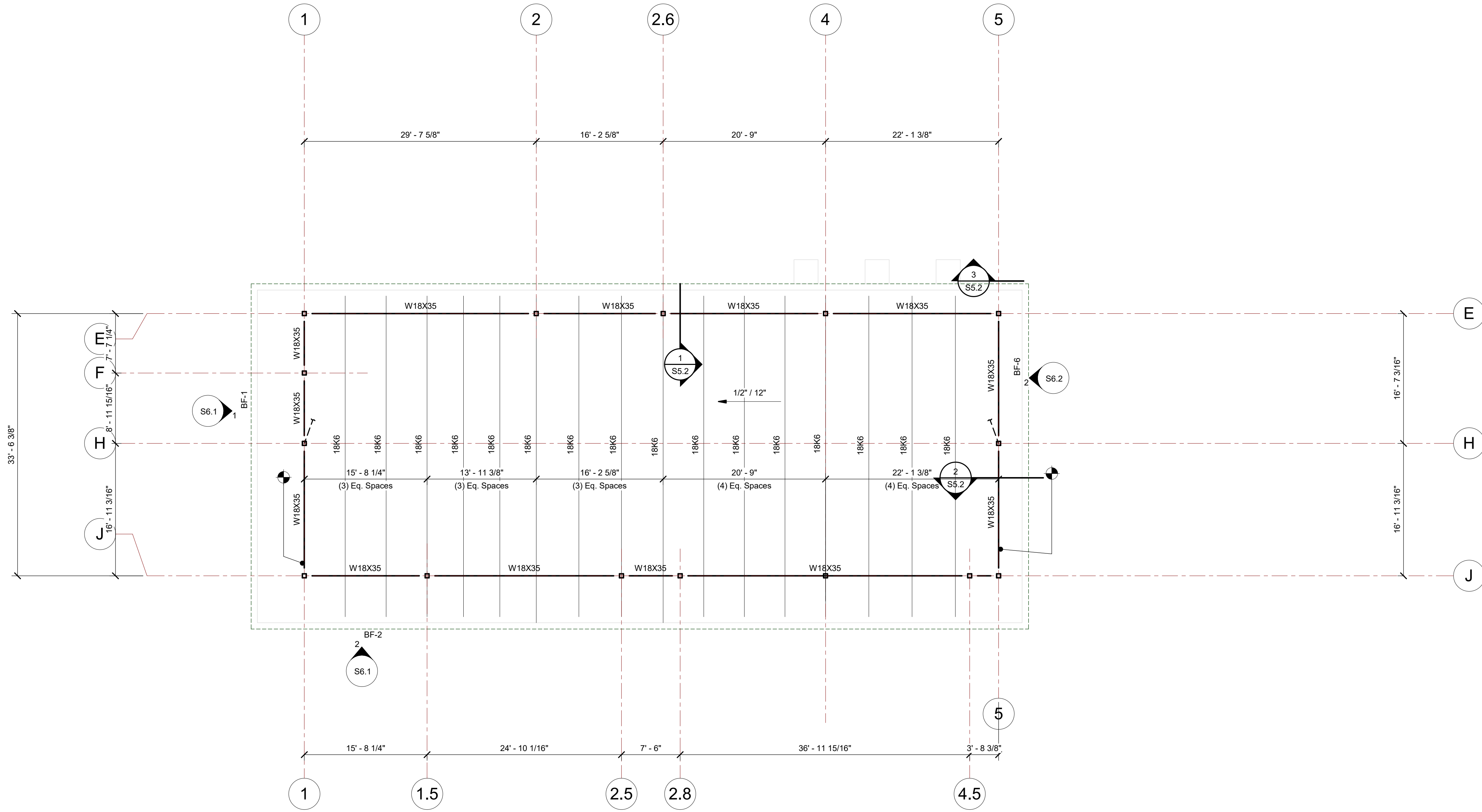
MA PROJECT NO: 0214-21

PROJECT PHASE: CD

DRAWN BY: JRS

Low Roof Framing Plan

S3.1



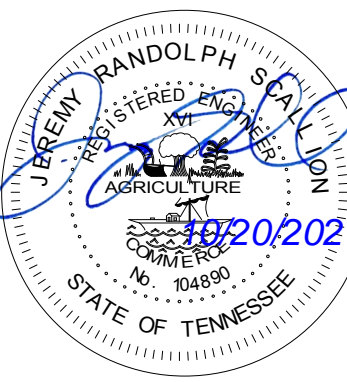
1 High Roof Framing Plan
1/8" = 1'-0"

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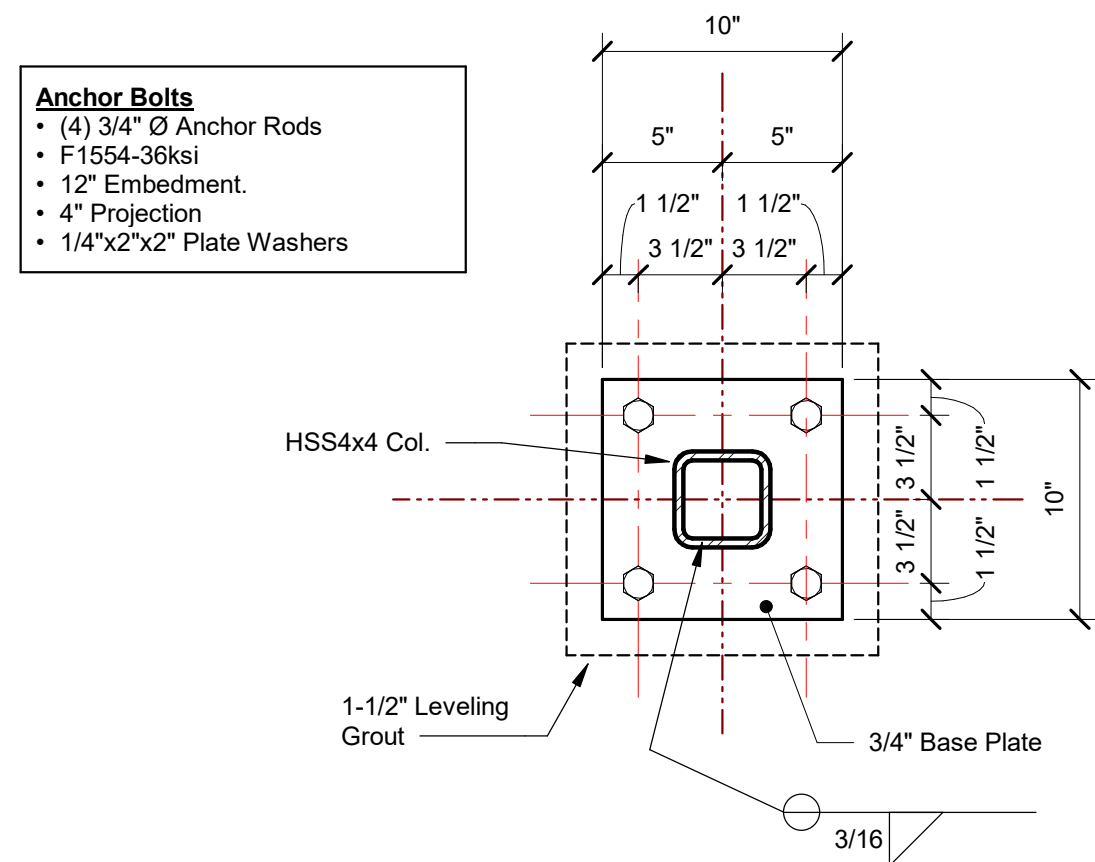
MA PROJECT NO: 0214-21

PROJECT PHASE: CD

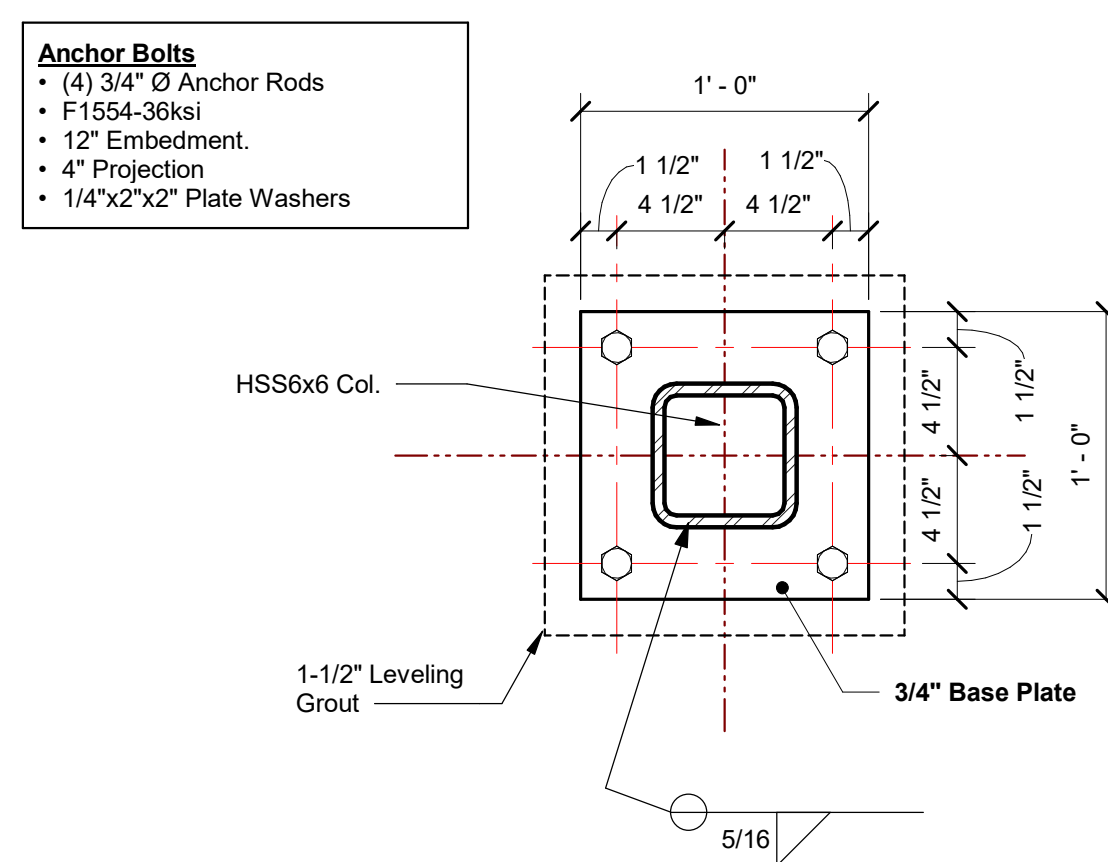
DRAWN BY: JRS

High Roof Framing Plan

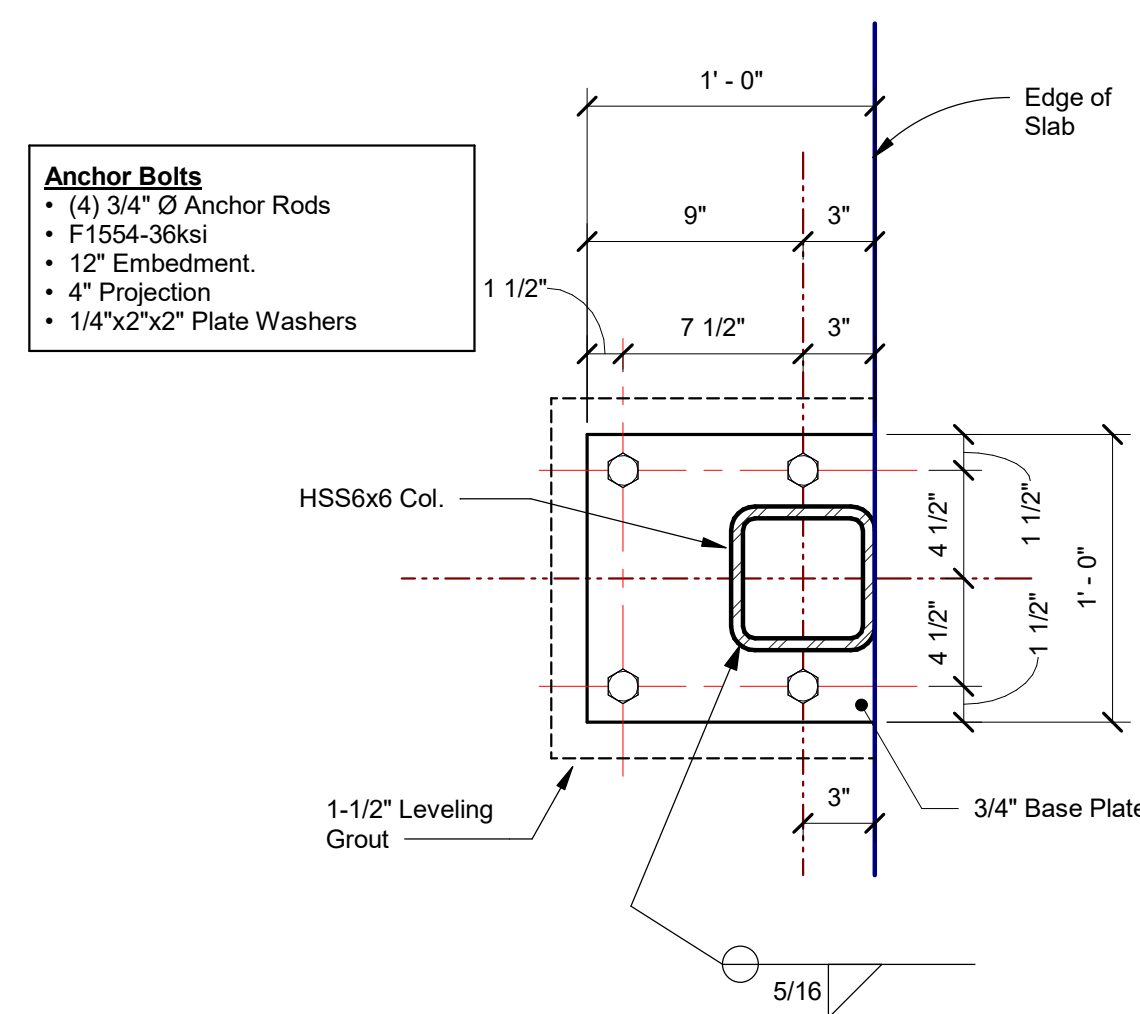
S3.2



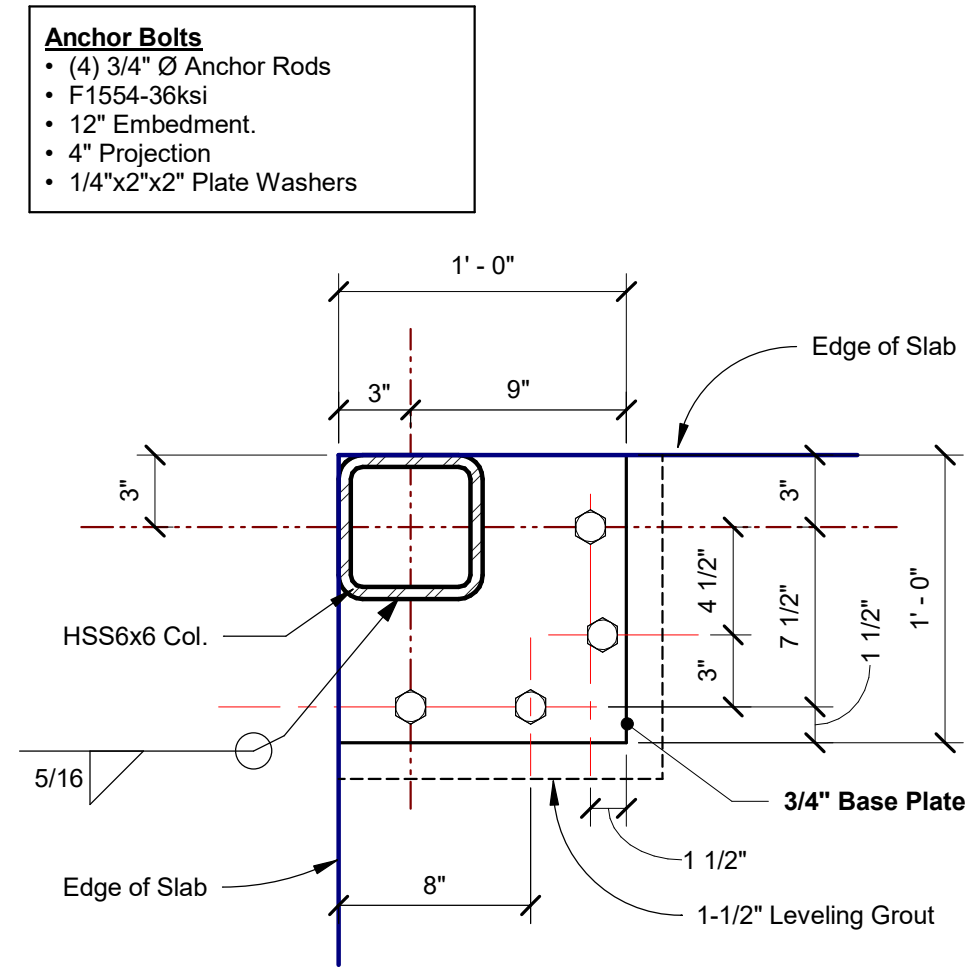
1 Base Plate BP-1
1 1/2" = 1'-0"



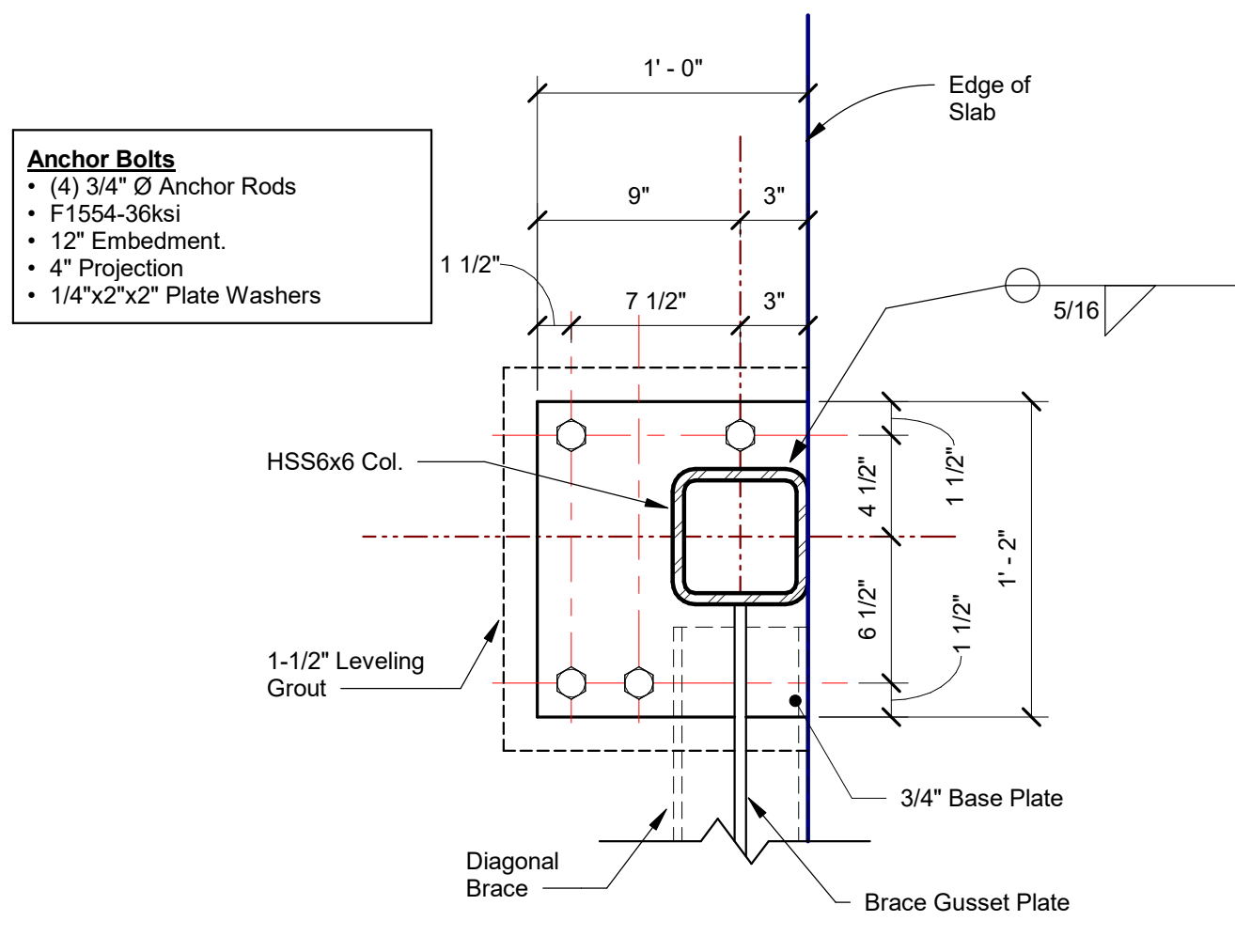
2 Base Plate BP-2
1 1/2" = 1'-0"



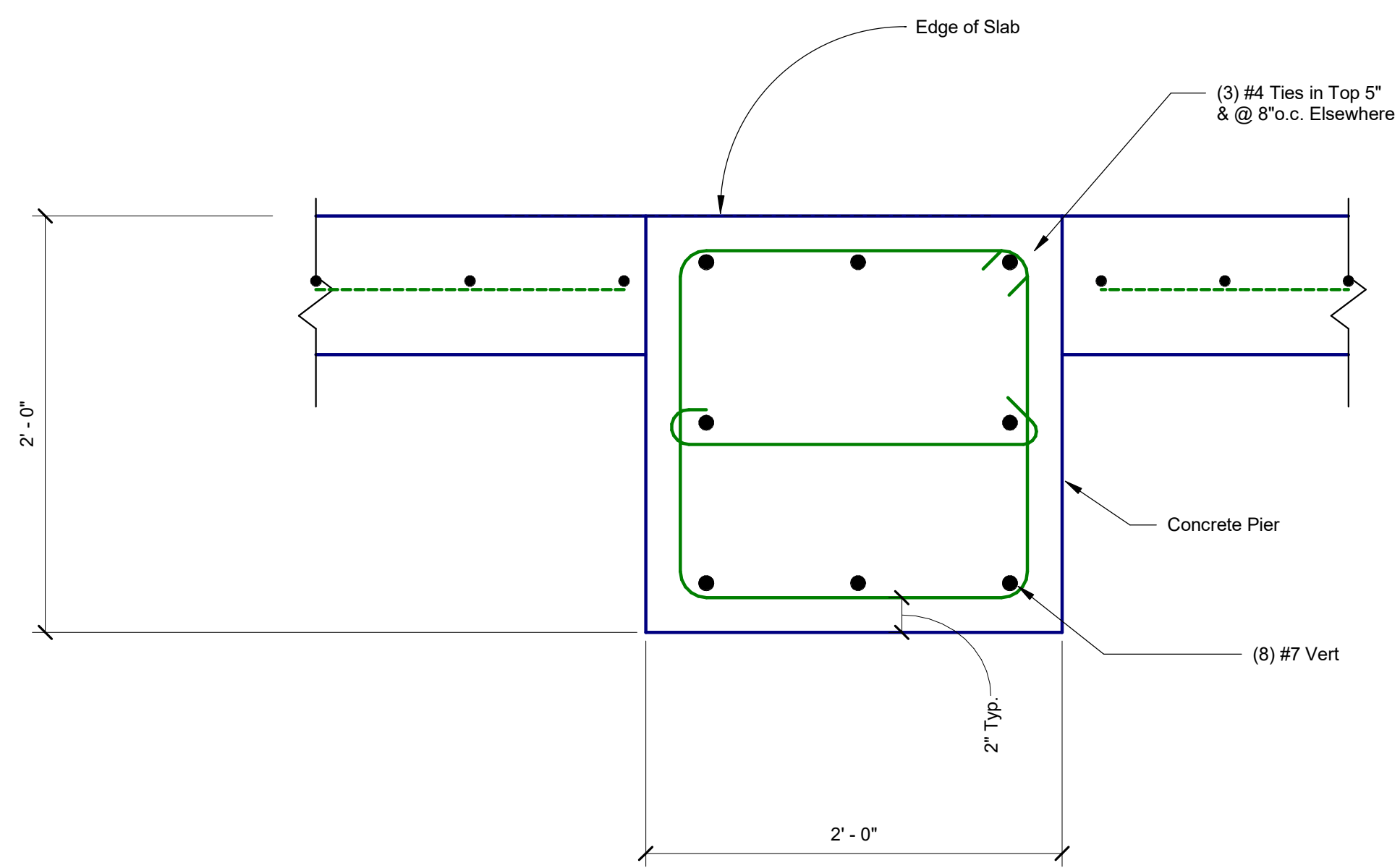
3 Base Plate BP-3
1 1/2" = 1'-0"



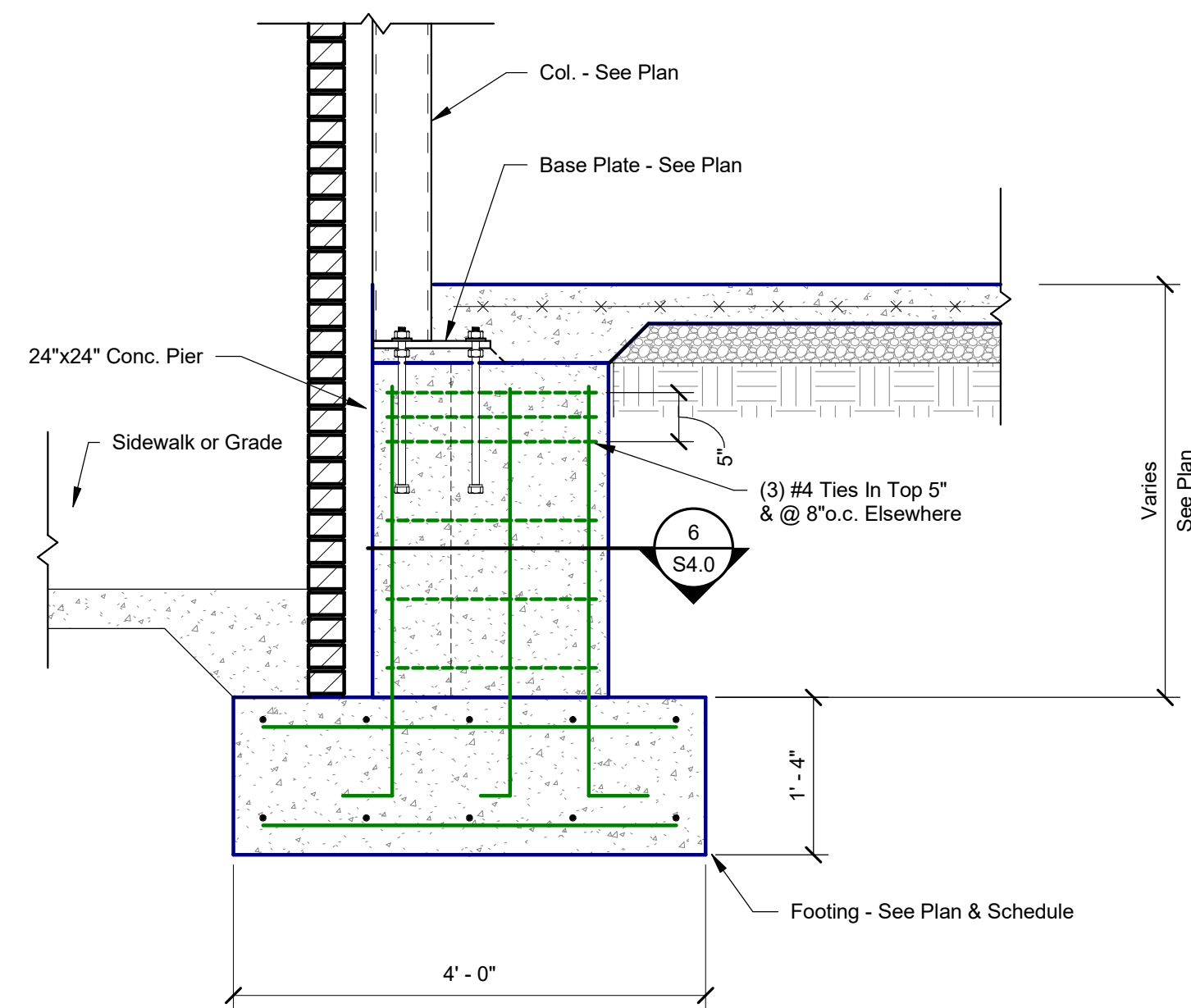
4 Base Plate BP-4
1 1/2" = 1'-0"



5 Base Plate BP-5
1 1/2" = 1'-0"



6 Concrete Pier Detail - CP-1
1 1/2" = 1'-0"



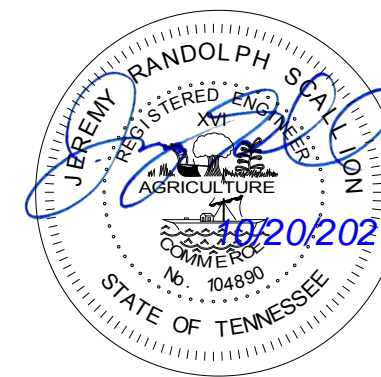
7 Section @ Concrete Pier
3/4" = 1'-0"

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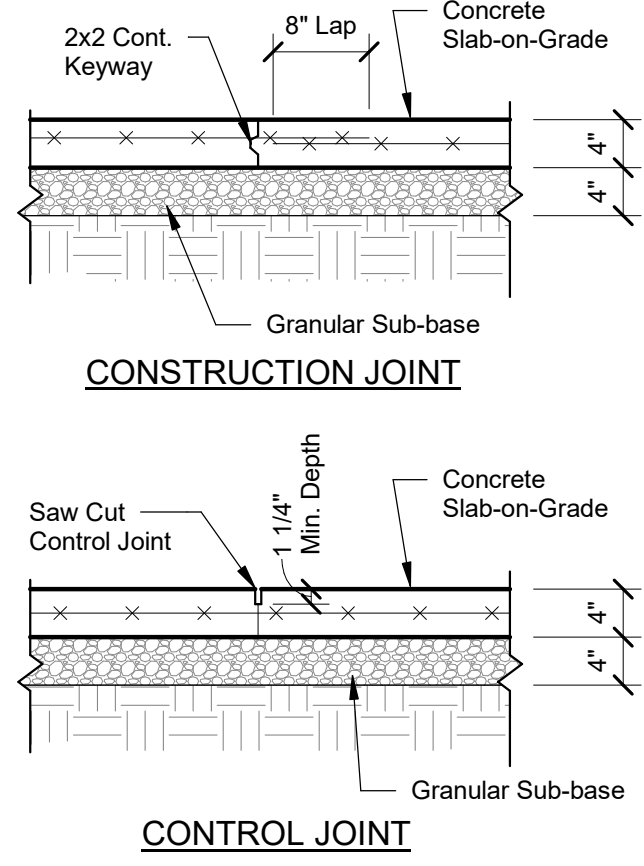
REVISIONS:

DELTA	DESCRIPTION	DATE

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MA PROJECT NO: 0214-21
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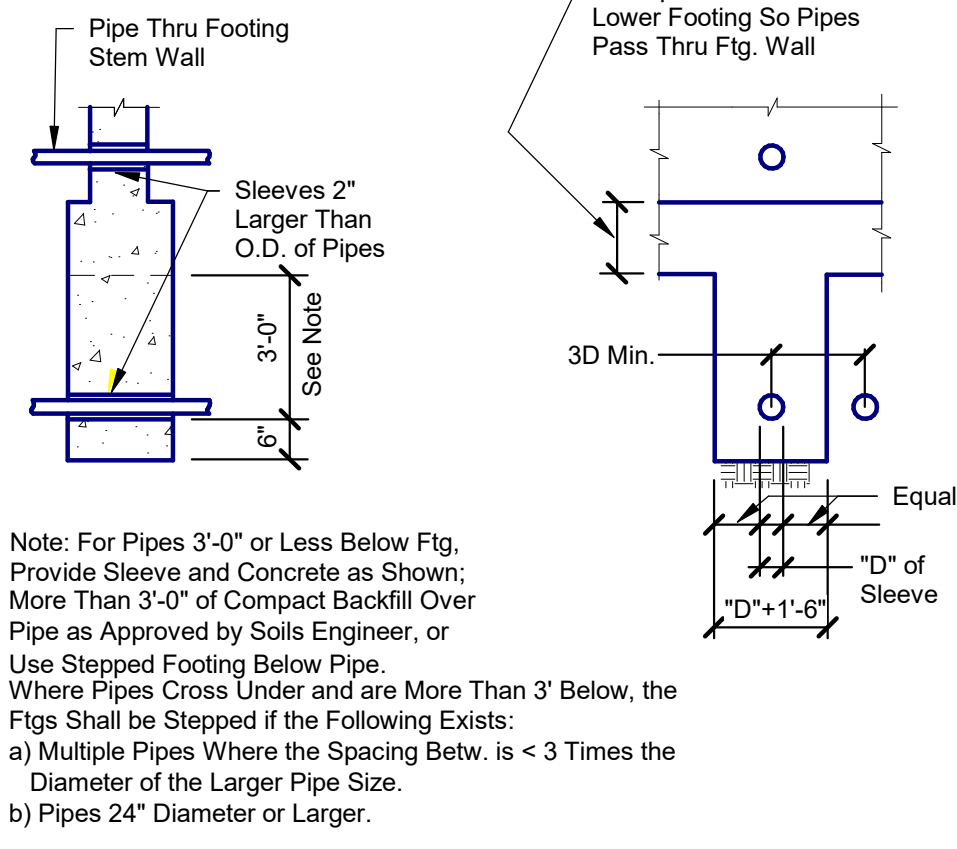
Base Plate and Pier Details

S4.0

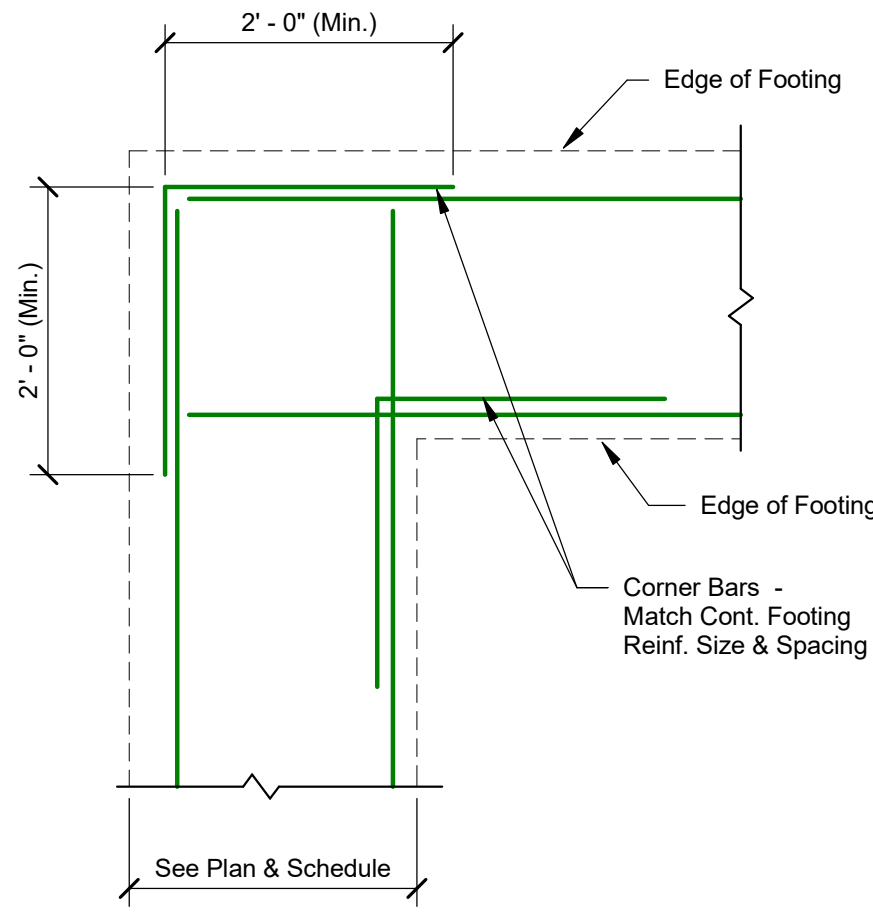


- Notes:
1. Maximum spacing of control joints shall be 15'-0" o.c. (U.N.O.)
 2. Locate control joints as specified on architectural drawings (when applicable)
 3. Provide 10 MIL Vapor Barrier below slab (U.N.O.)

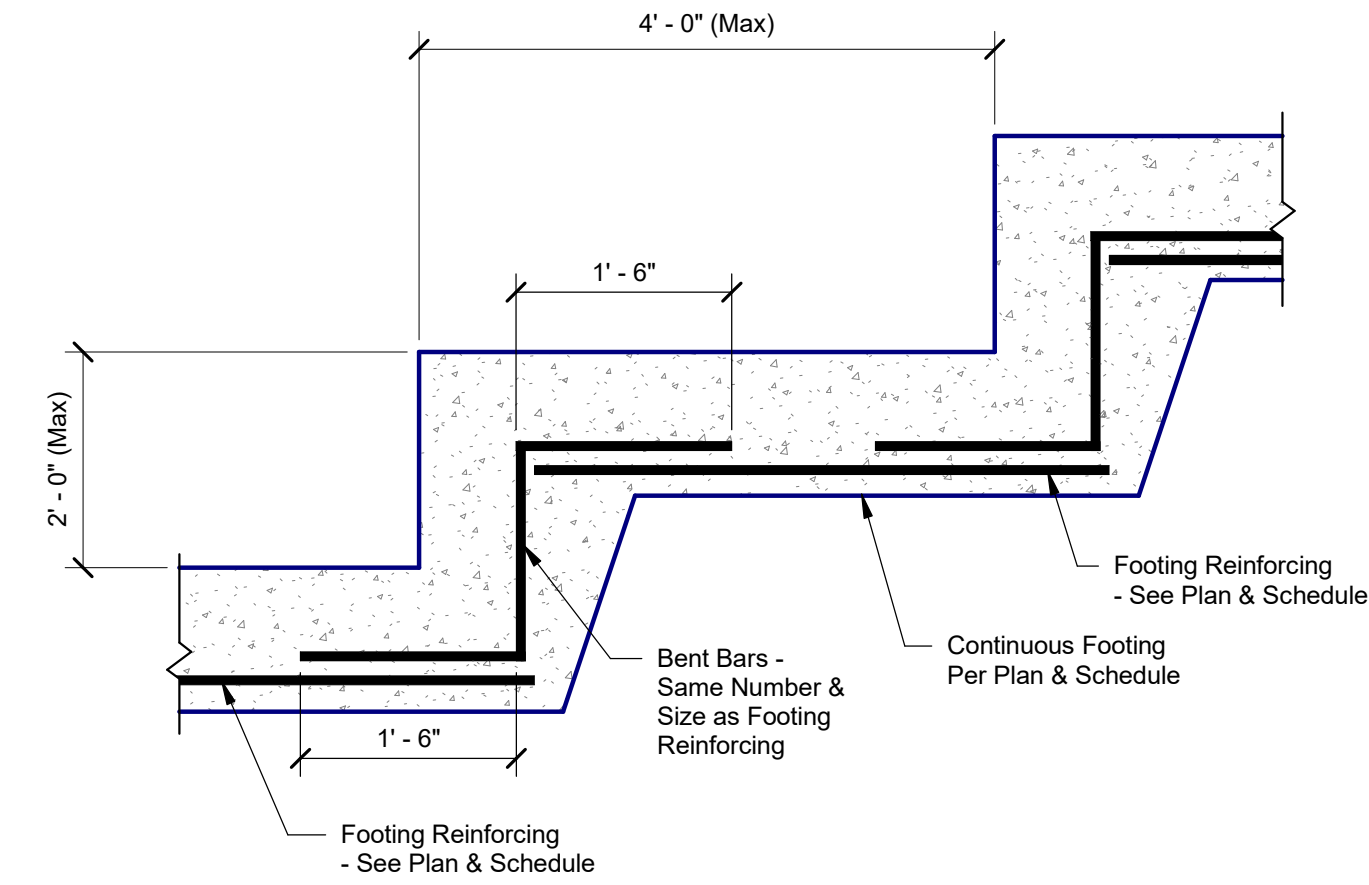
1 Slab-on-Grade Details
3/4" = 1'-0"



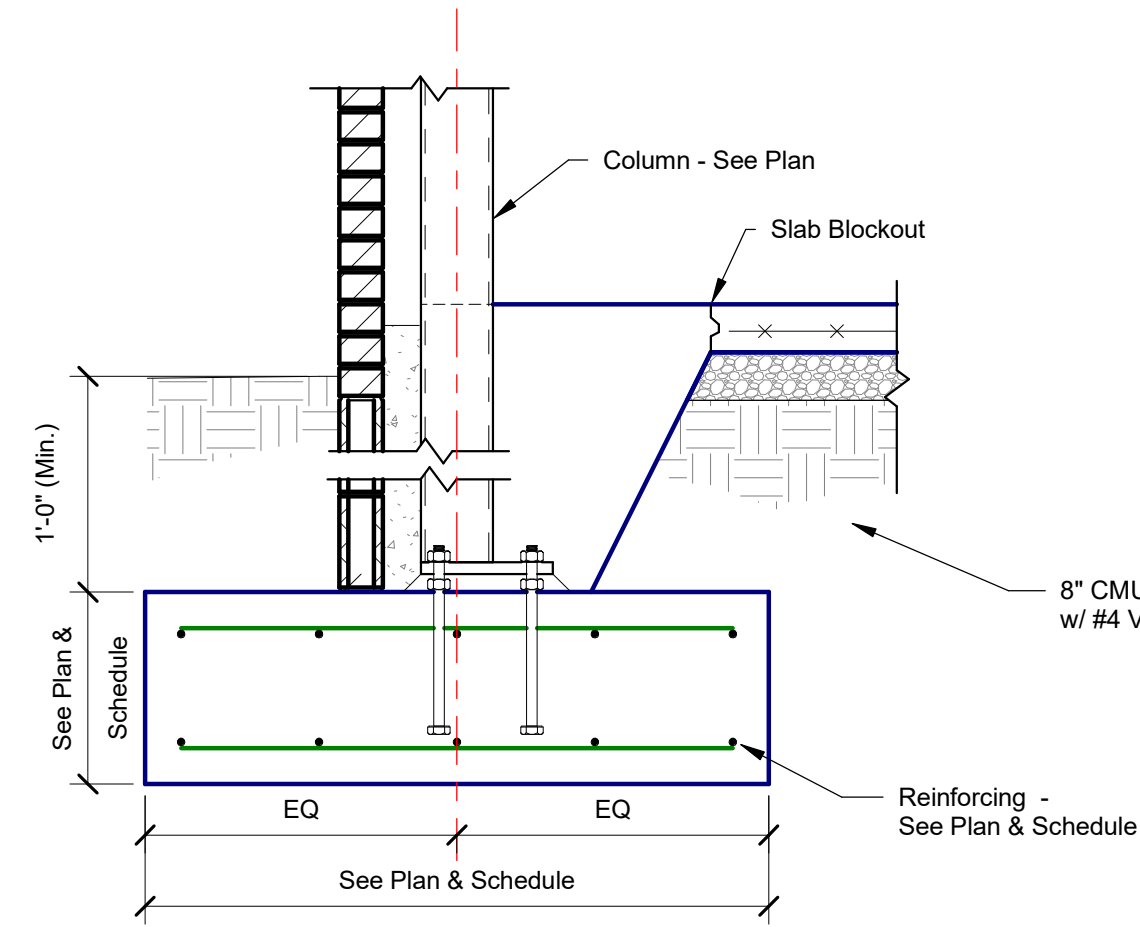
2 Pipe @ Footing Detail
3/4" = 1'-0"



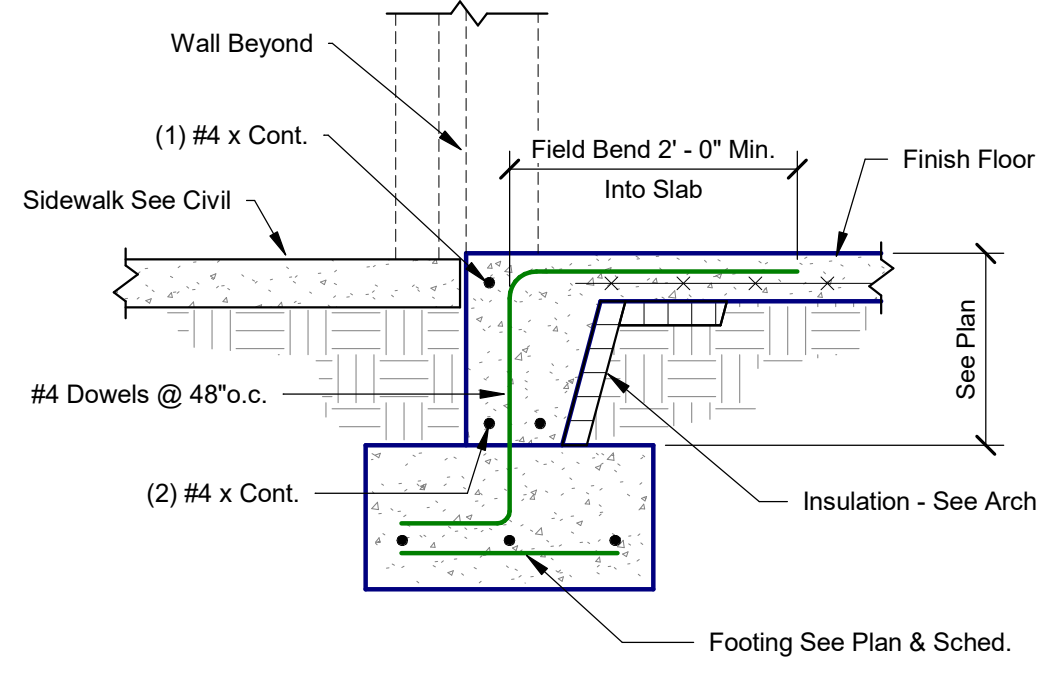
3 Typ. Cont. Corner Footing Detail
3/4" = 1'-0"



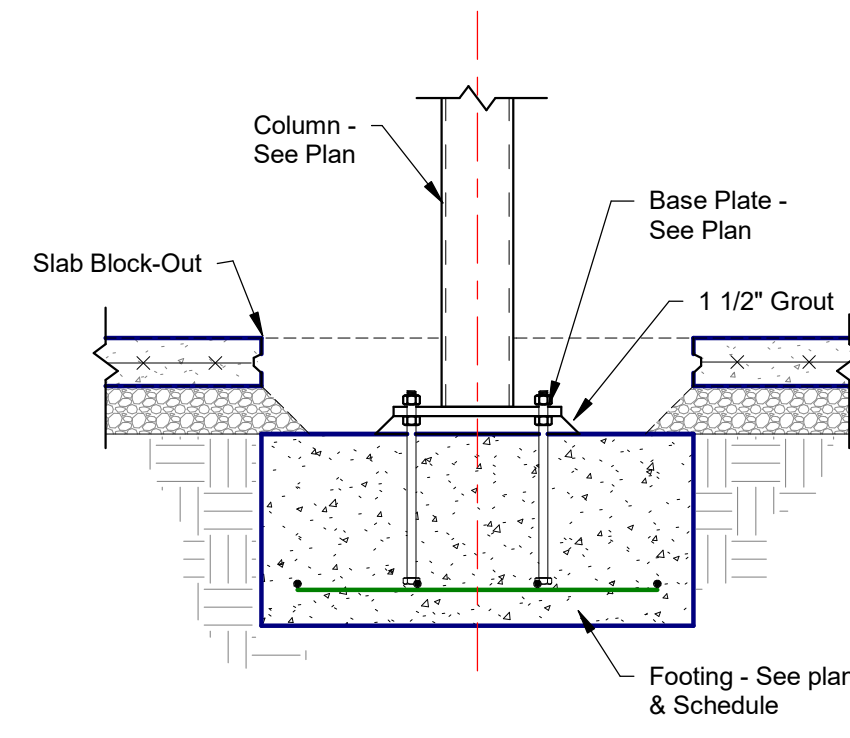
4 Typical Footing Step Detail
3/4" = 1'-0"



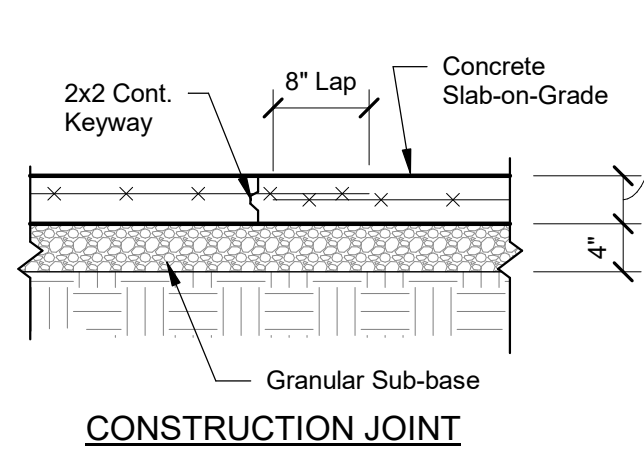
5 Footing at Exterior Column
3/4" = 1'-0"



6 Section @ Door
3/4" = 1'-0"

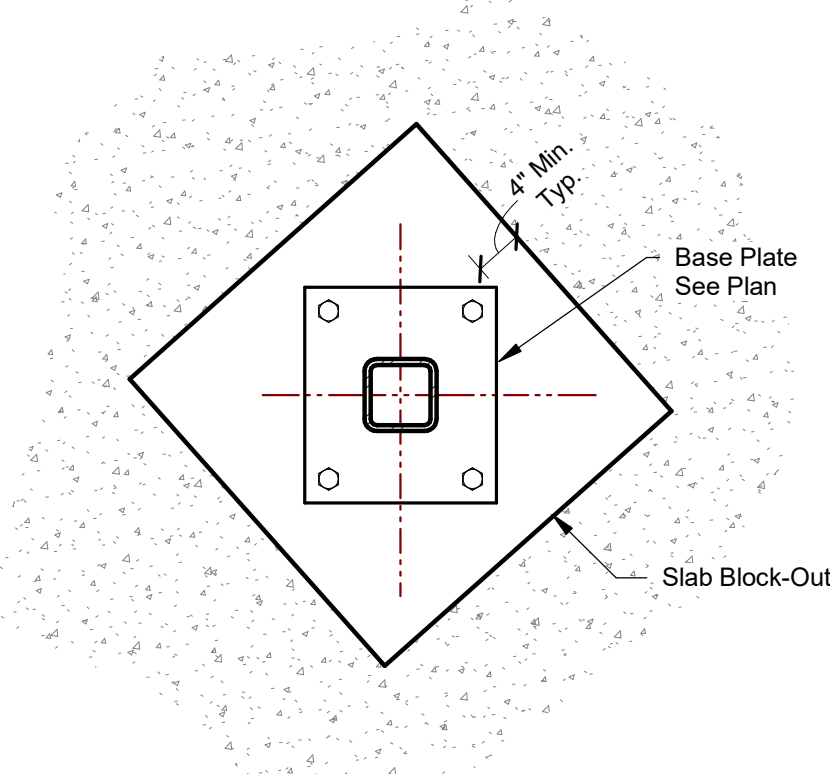
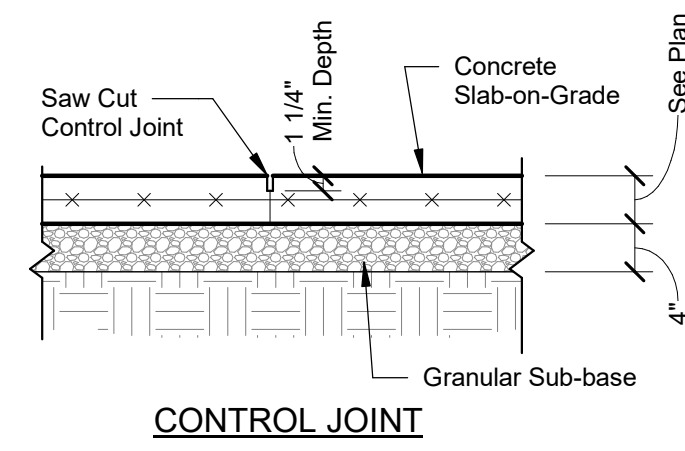


7 Footing @ Interior Column
3/4" = 1'-0"

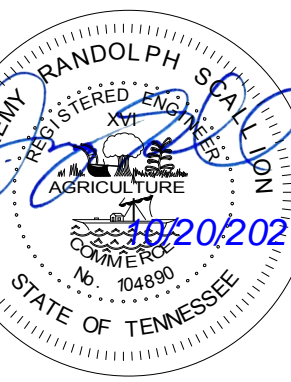


- Notes:
1. Maximum spacing of control joints shall be 15'-0" o.c. (U.N.O.)
 2. Locate control joints as specified on architectural drawings (when applicable)
 3. Provide 10 MIL Vapor Barrier below slab (U.N.O.)

8 Slab-on-Grade Details
3/4" = 1'-0"



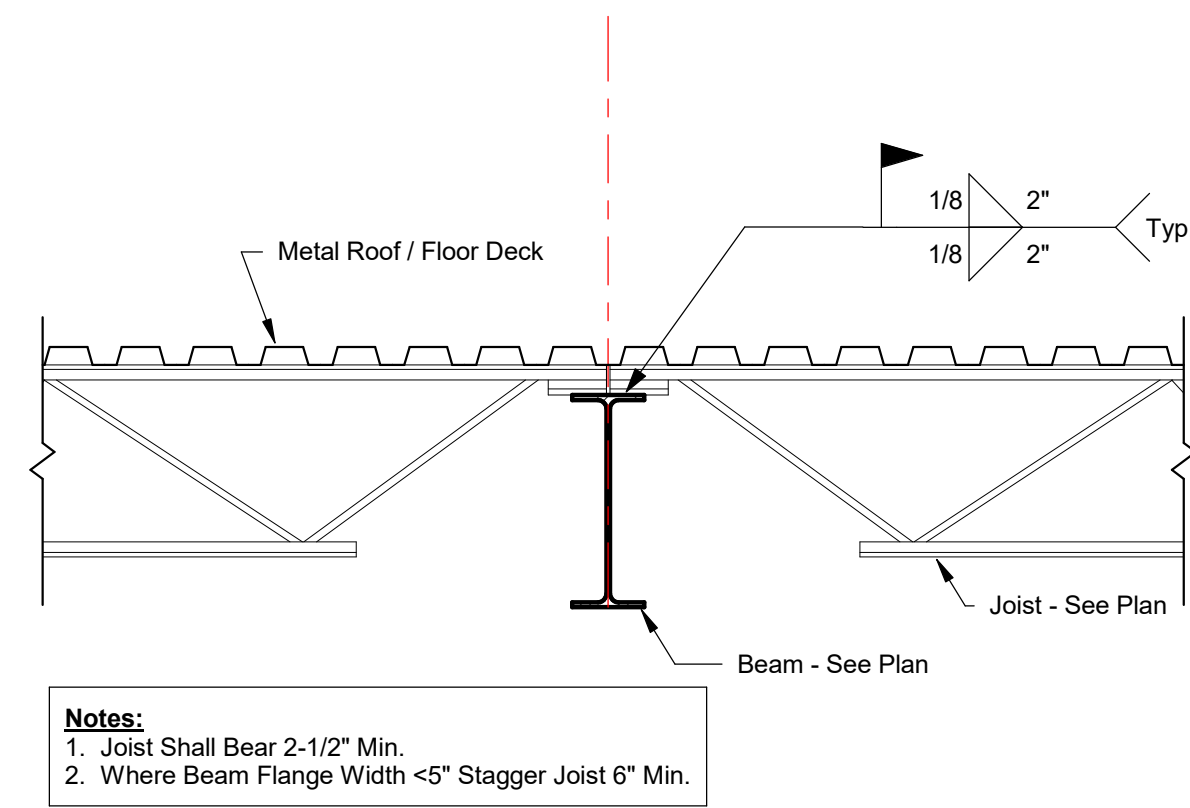
9 Typical Slab Block-Out Detail
3/4" = 1'-0"



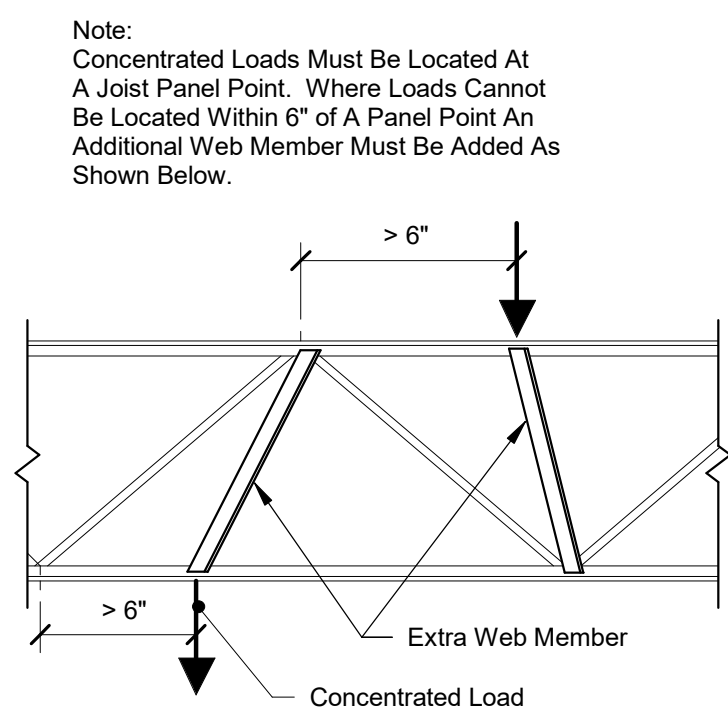
REVISIONS:

DELTA	DESCRIPTION	DATE

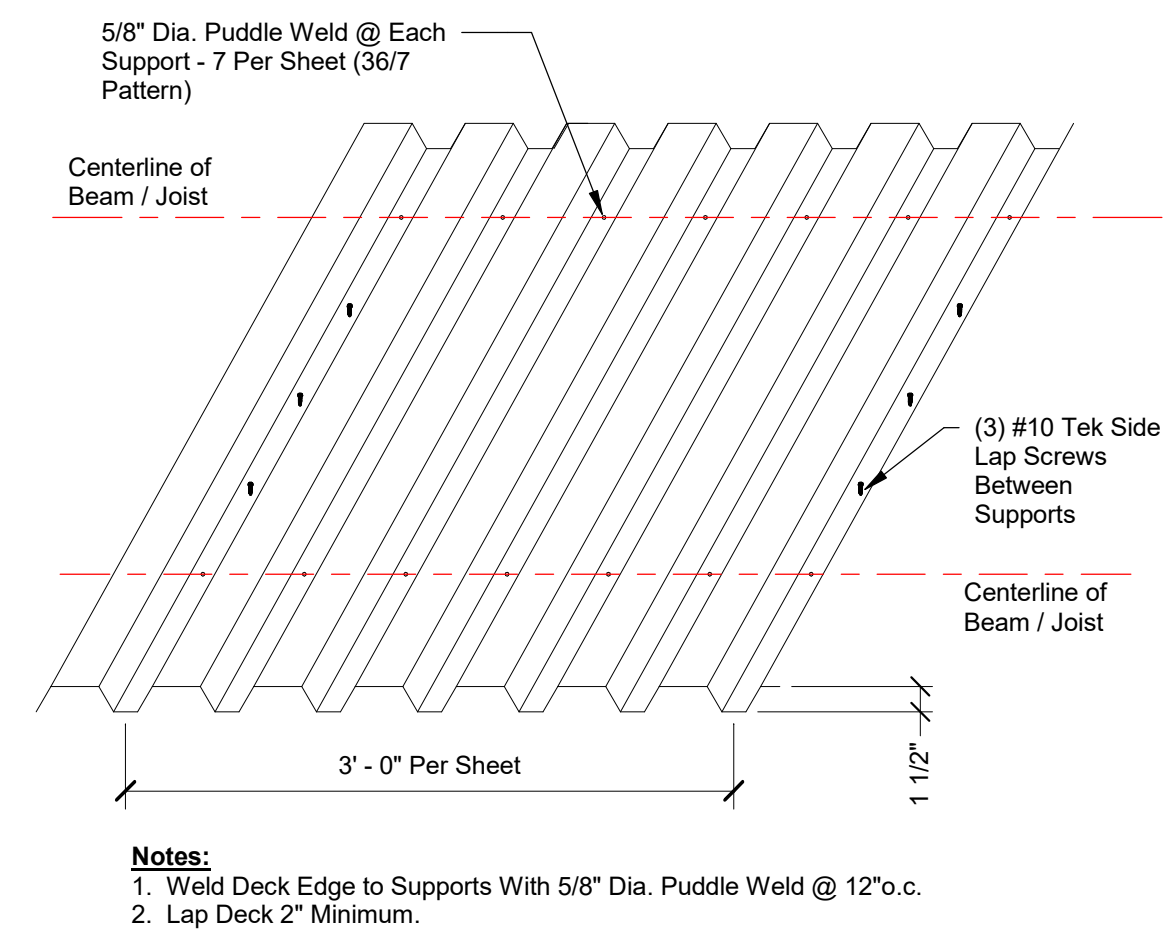
DATE OF ISSUE: 10/20/2021
MA PROJECT NO: 0214-21
PROJECT PHASE: CD
DRAWN BY: JRS



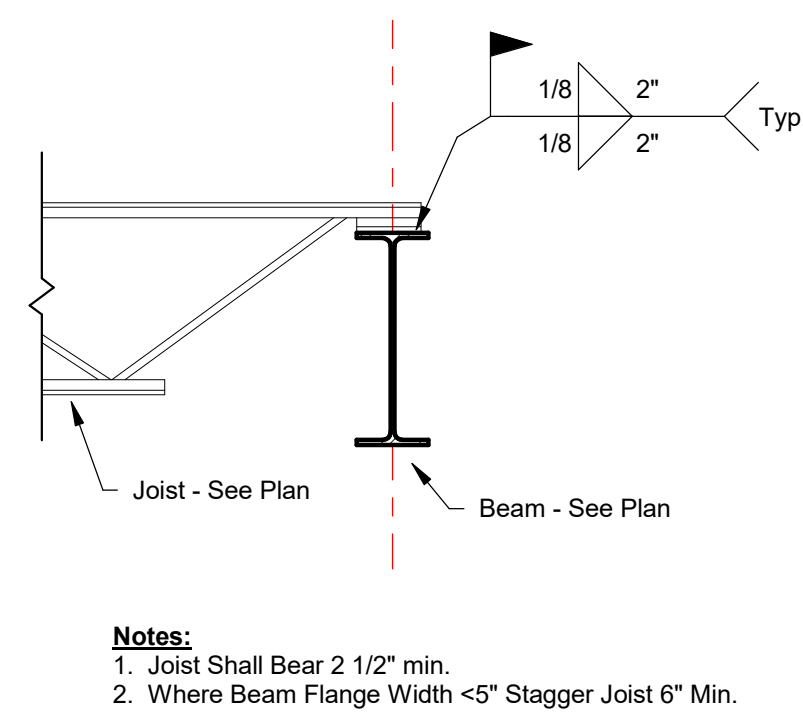
1 Joist Bearing on WF Beam
3/4" = 1'-0"



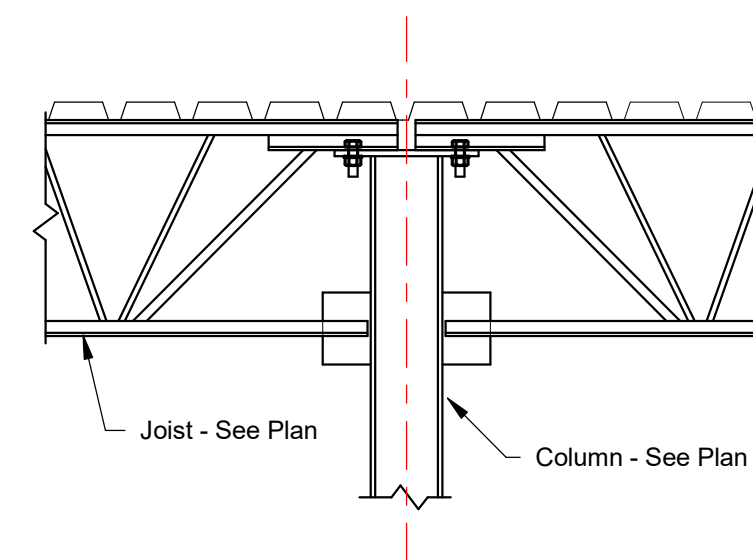
2 Typical Joist Modification Detail
Not To Scale



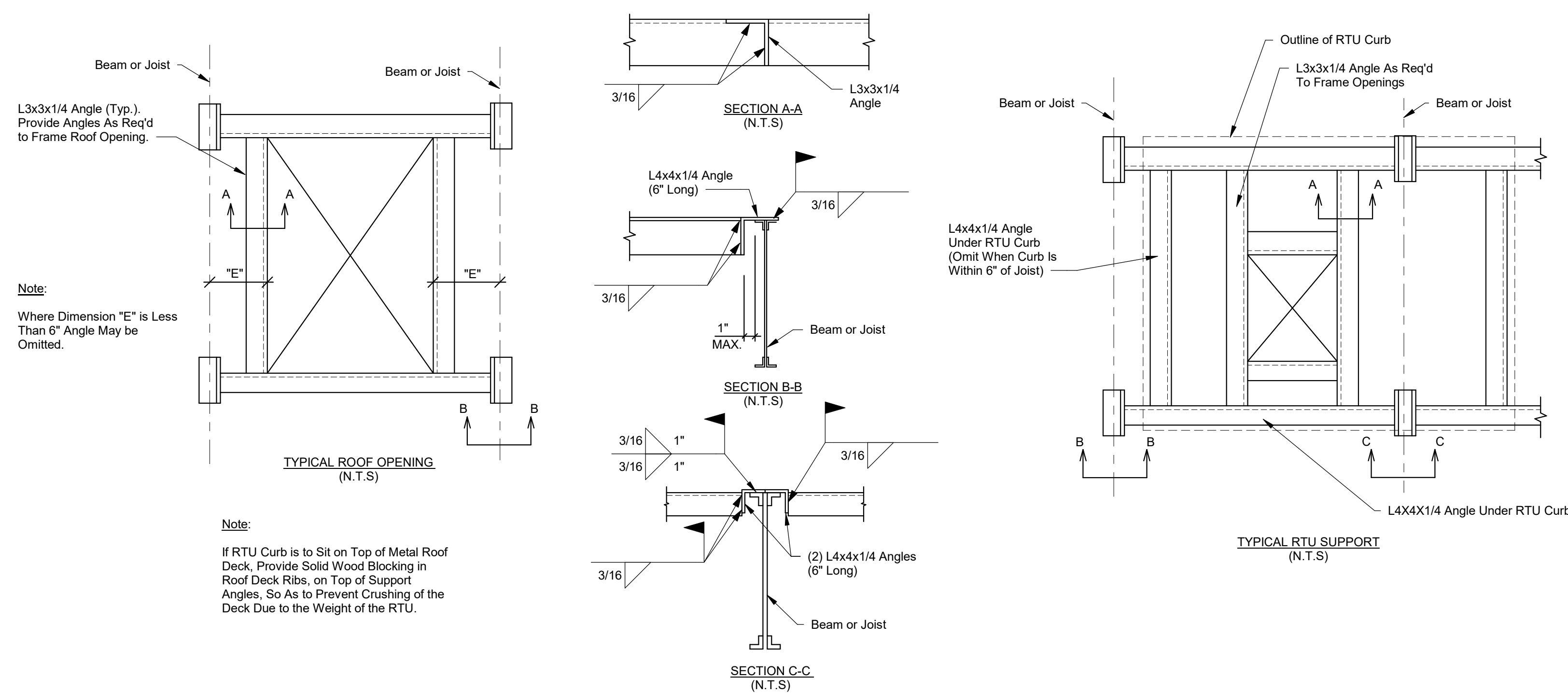
3 Roof Deck Attachment Detail
Not To Scale



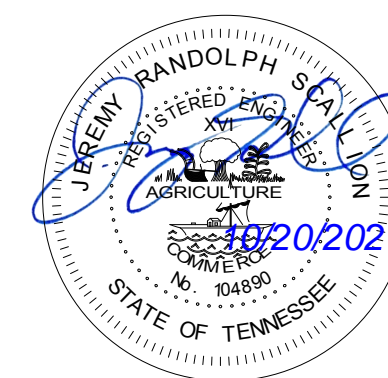
4 Typ. Joist to Beam Attachment
3/4" = 1'-0"



5 Typical Joist @ Column at Roof
3/4" = 1'-0"



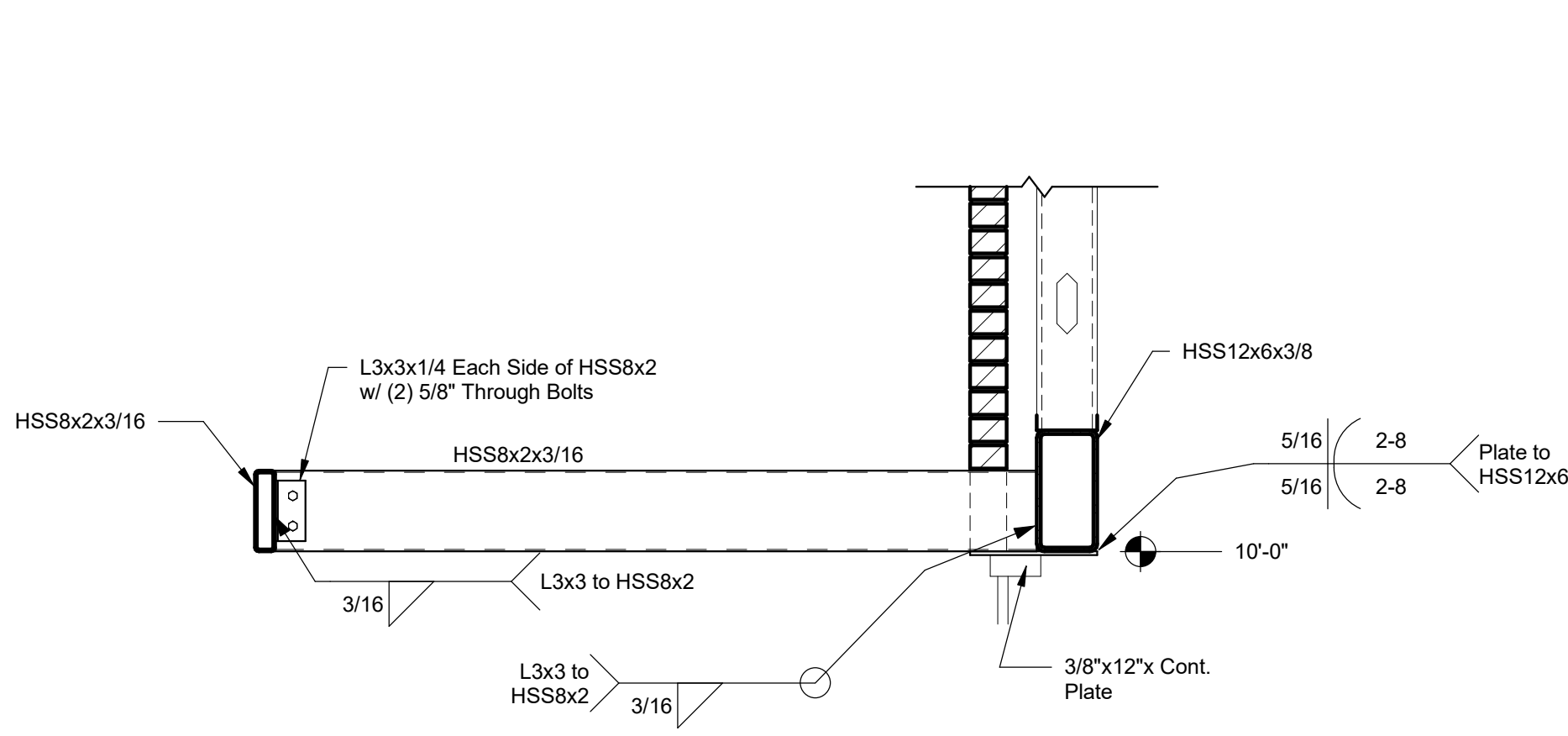
10 RTU Support Detail
Not To Scale



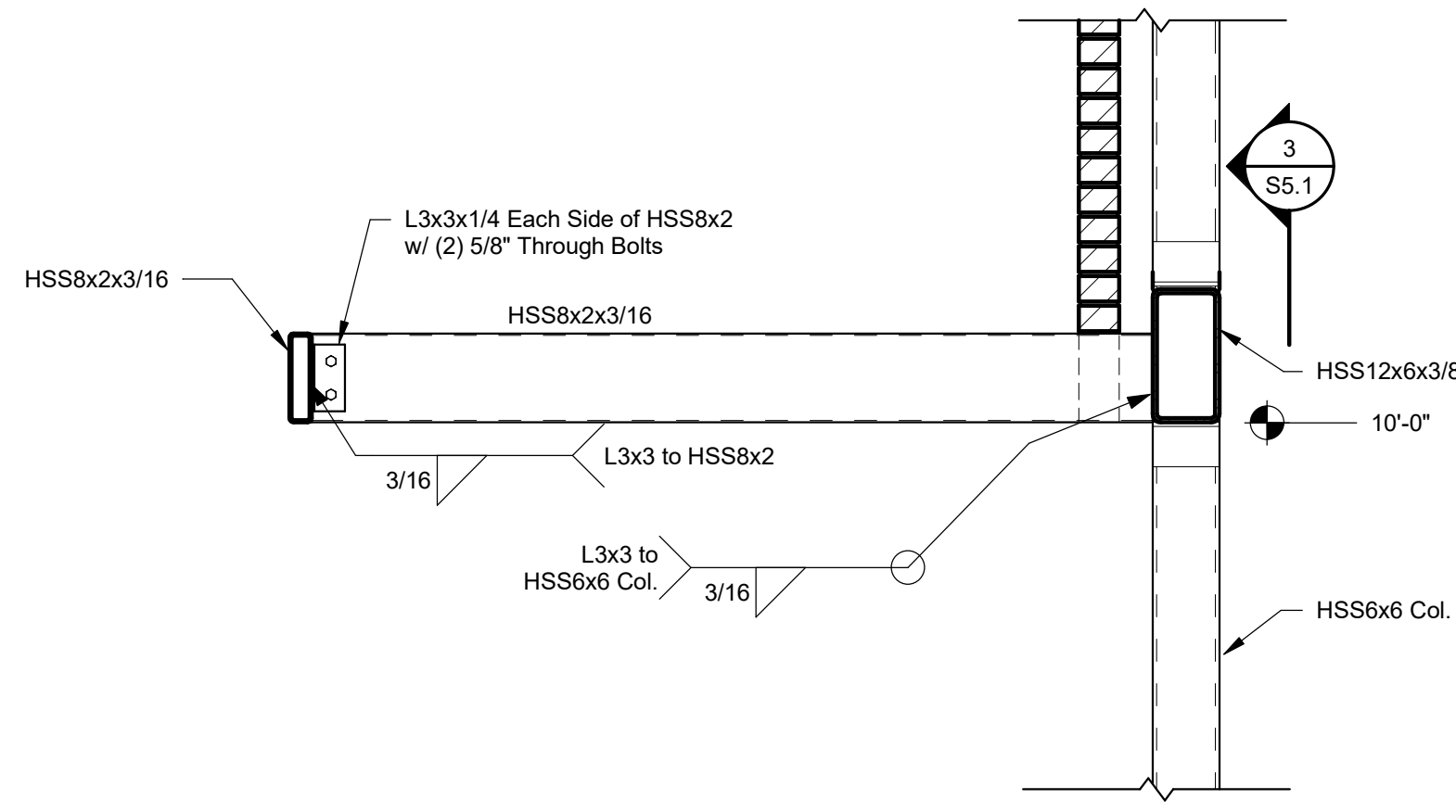
REVISIONS:

DELTA	DESCRIPTION	DATE

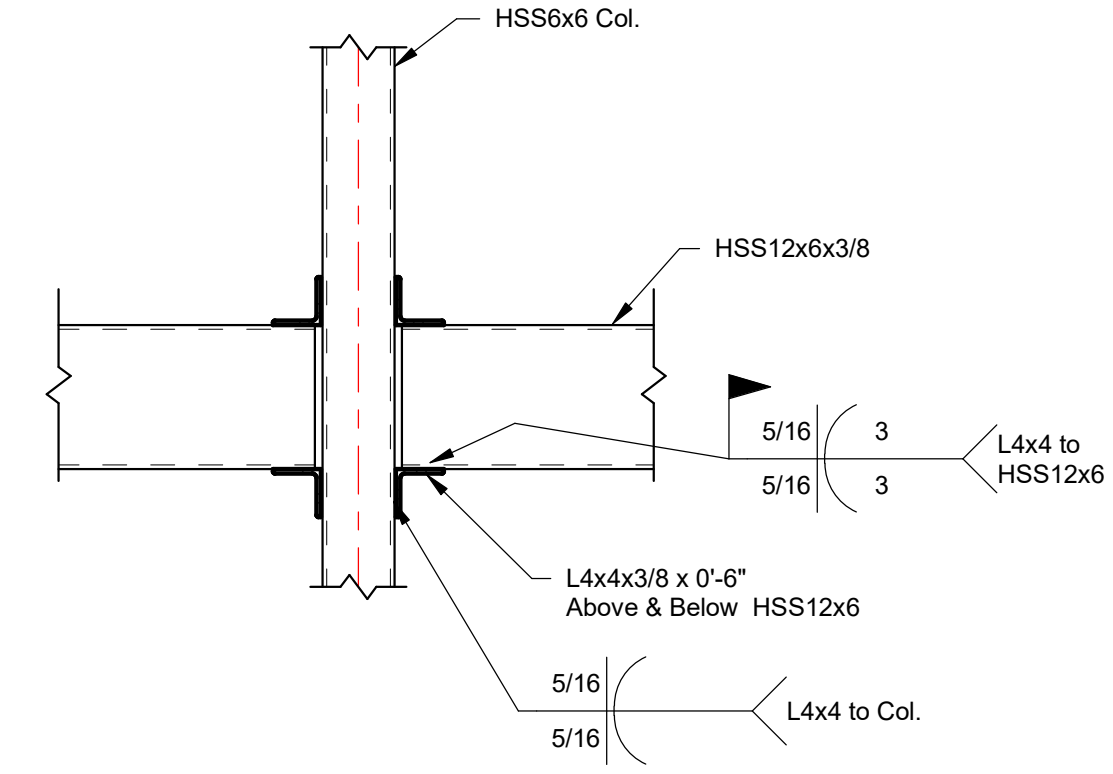
DATE OF ISSUE: 10/20/2021
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 DRAWN BY: JRS



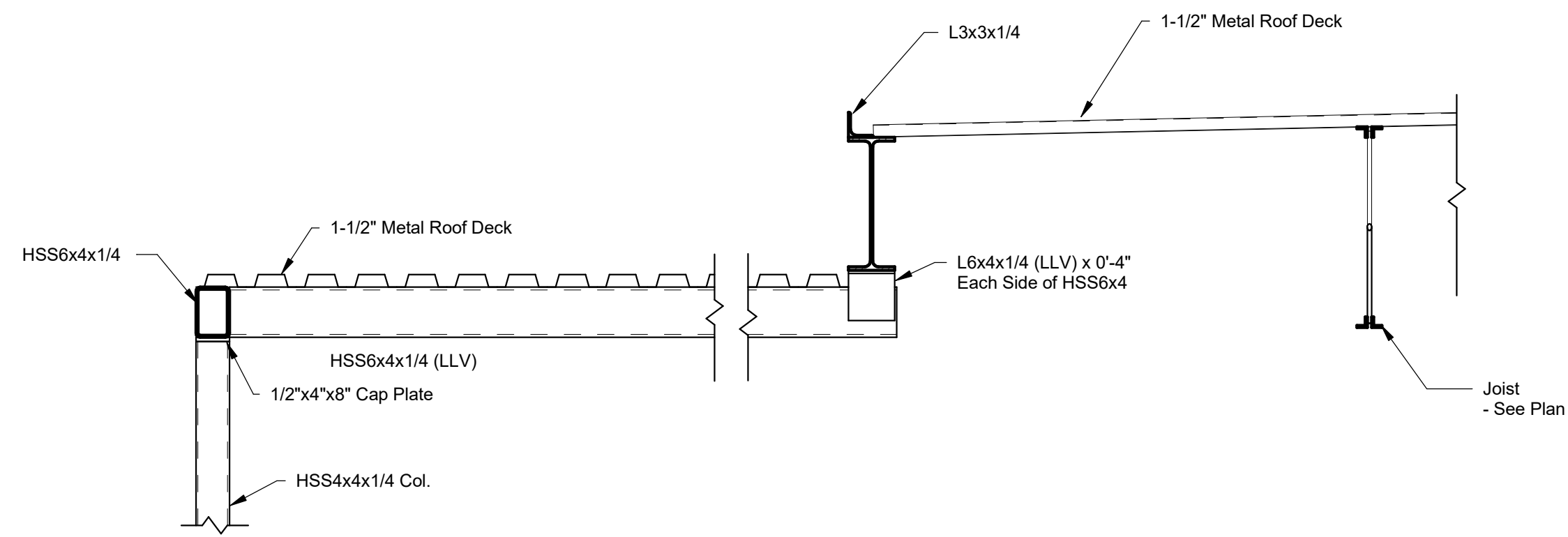
1 Canopy Section @ Storefront
3/4" = 1'-0"



2 Canopy Section @ Column
3/4" = 1'-0"



3 Detail at HSS12x6 to HSS6x6 Col. Connection
3/4" = 1'-0"



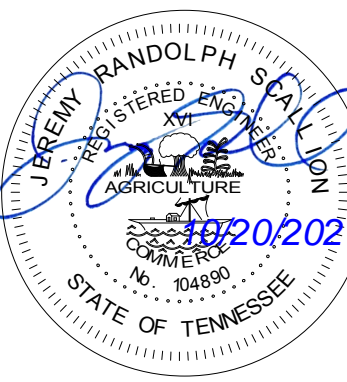
4 Canopy Section @ Back of Store
3/4" = 1'-0"

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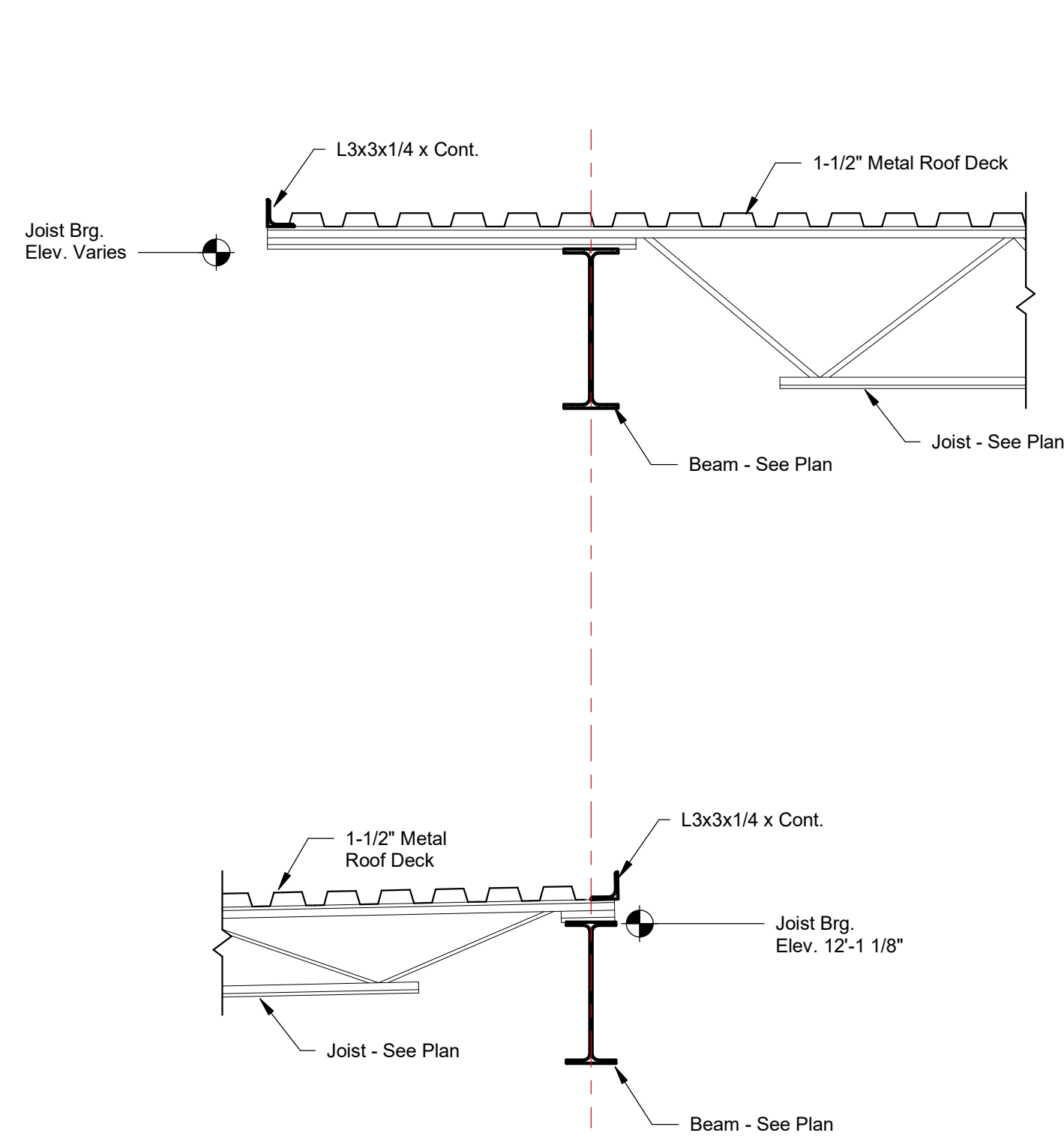
PROJECT PHASE: CD

DRAWN BY: JRS

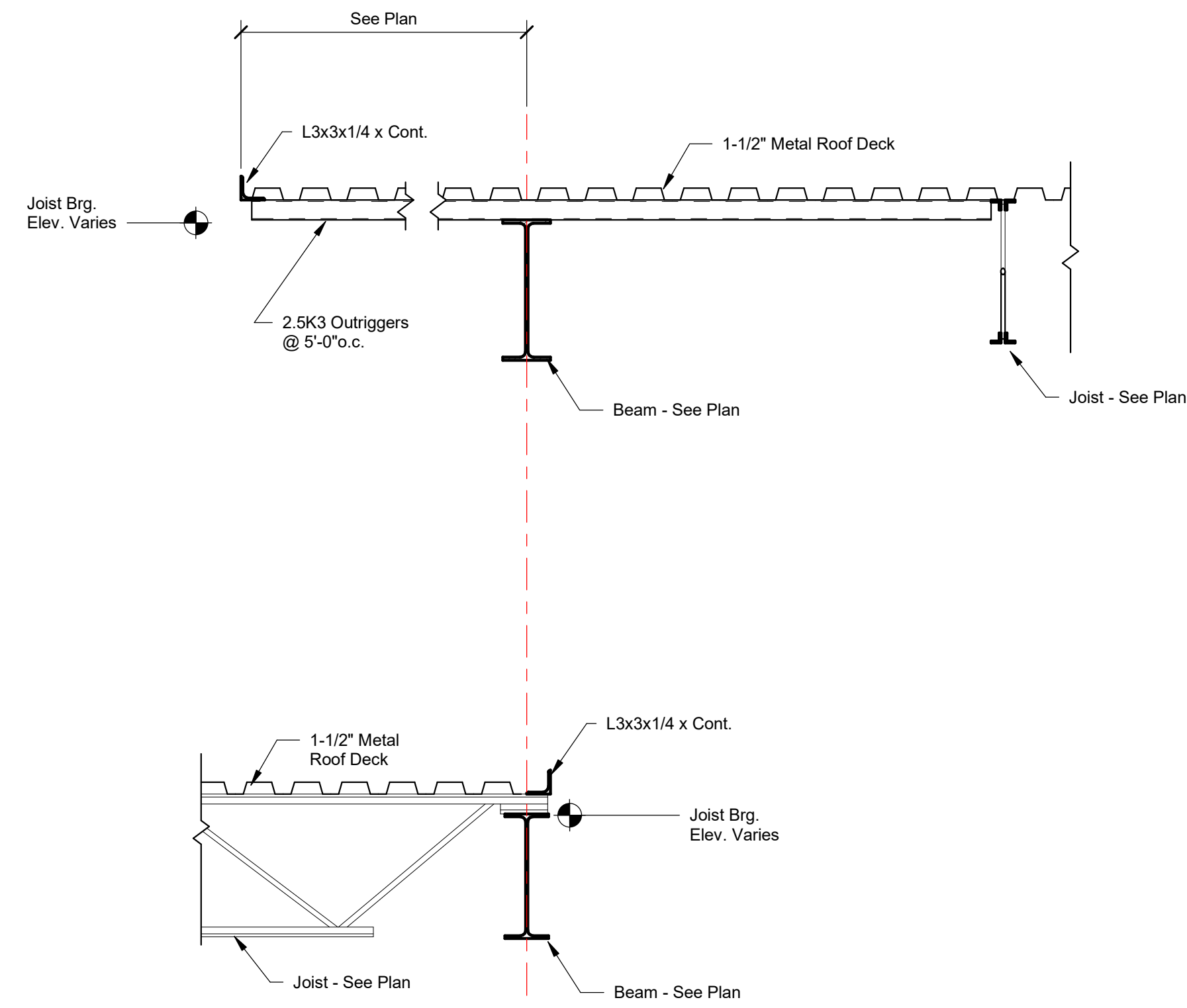
Canopy Framing Sections

S5.1

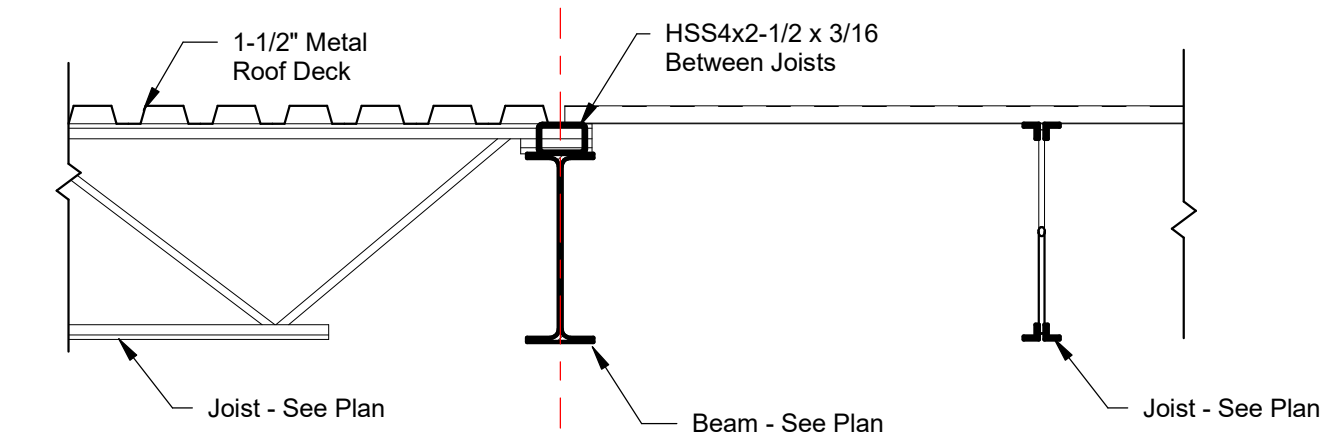
ITEM # 4.



1 Section @ High / Low Roof
3/4" = 1'-0"



2 Section 2 @ High / Low Roof
3/4" = 1'-0"



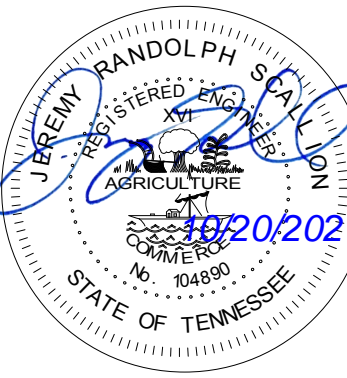
3 Section @ Change in Deck Direction
3/4" = 1'-0"

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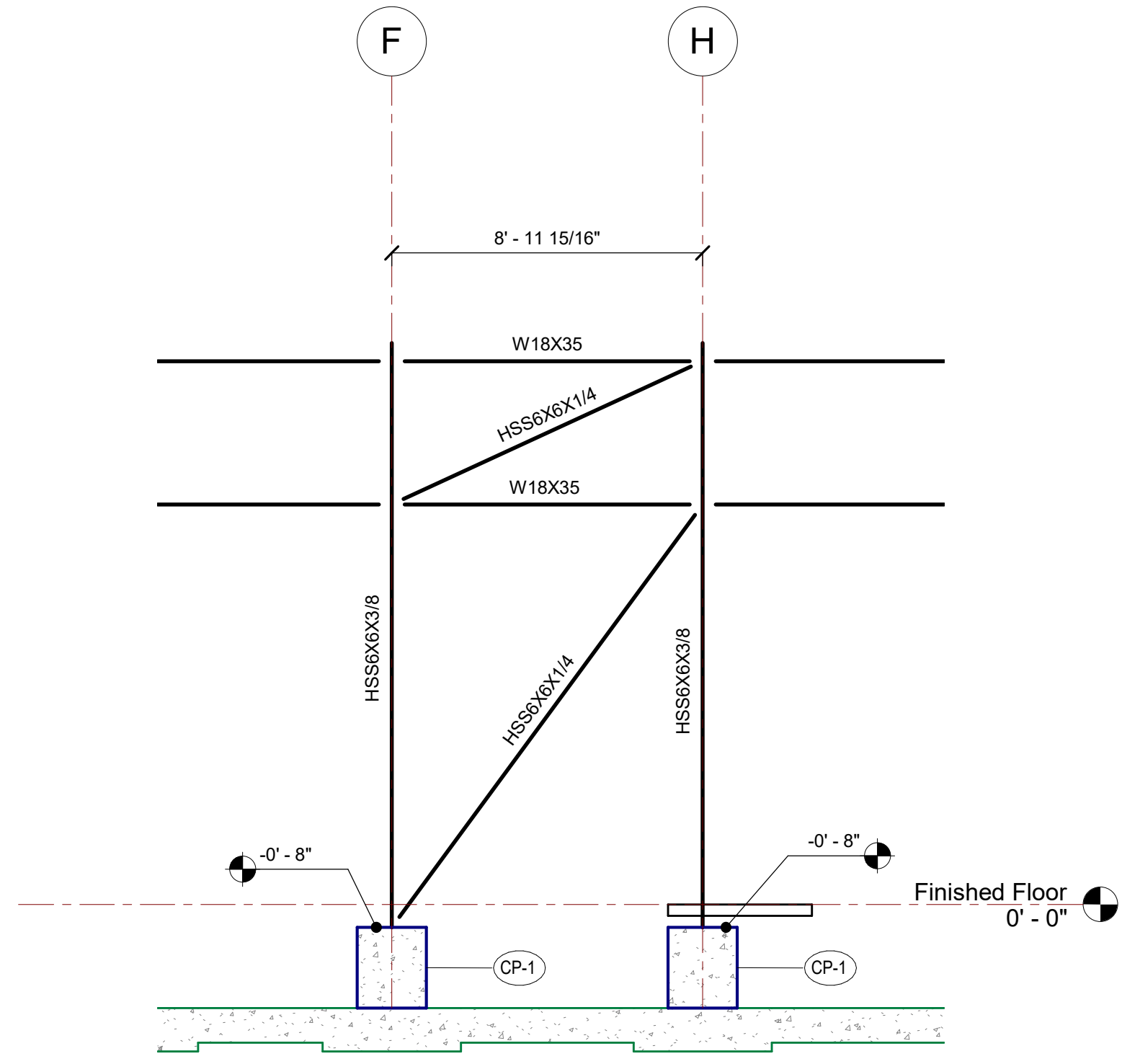
MA PROJECT NO: 0214-21

PROJECT PHASE: CD

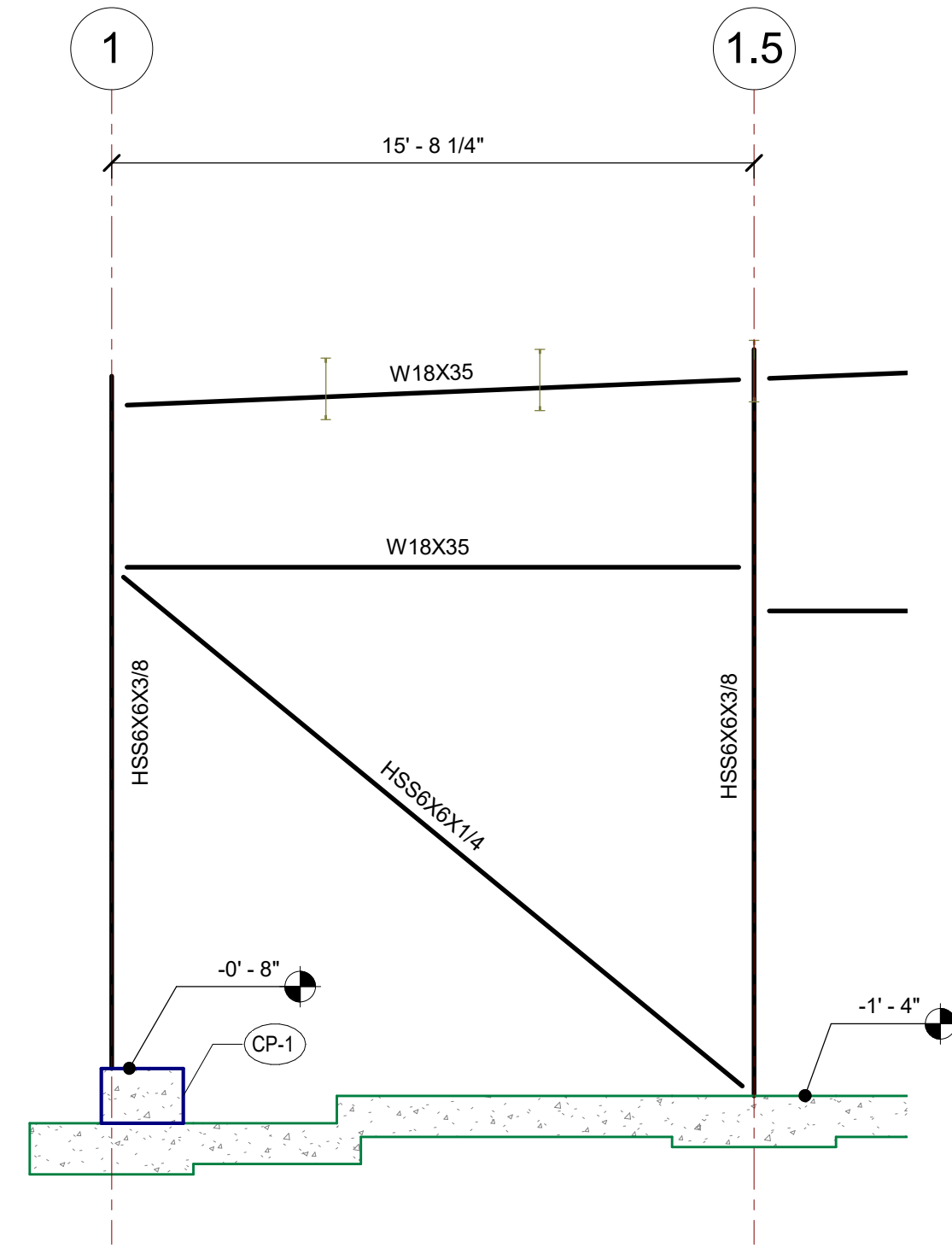
DRAWN BY: JRS

Roof Framing Sections

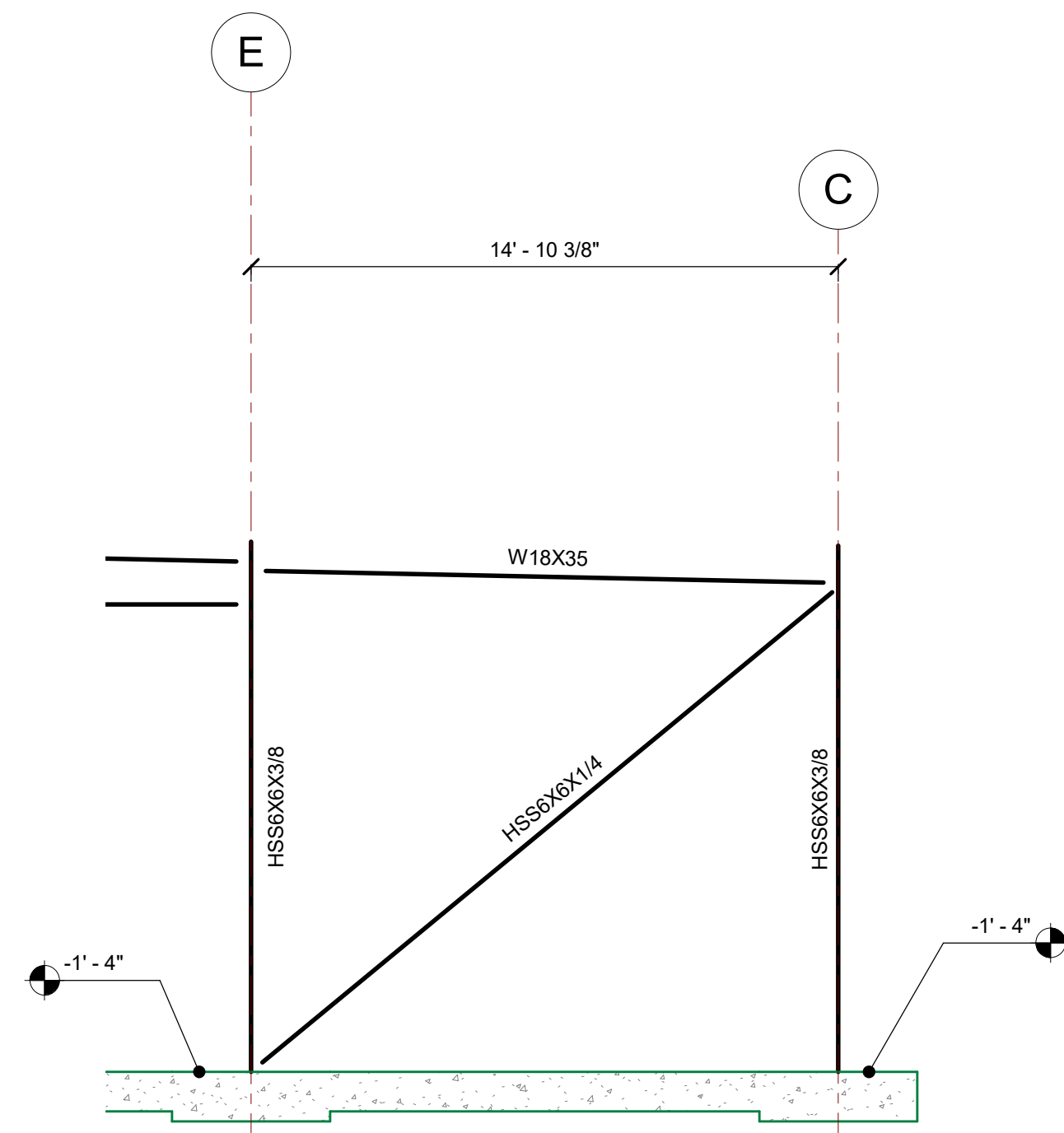
S5.2



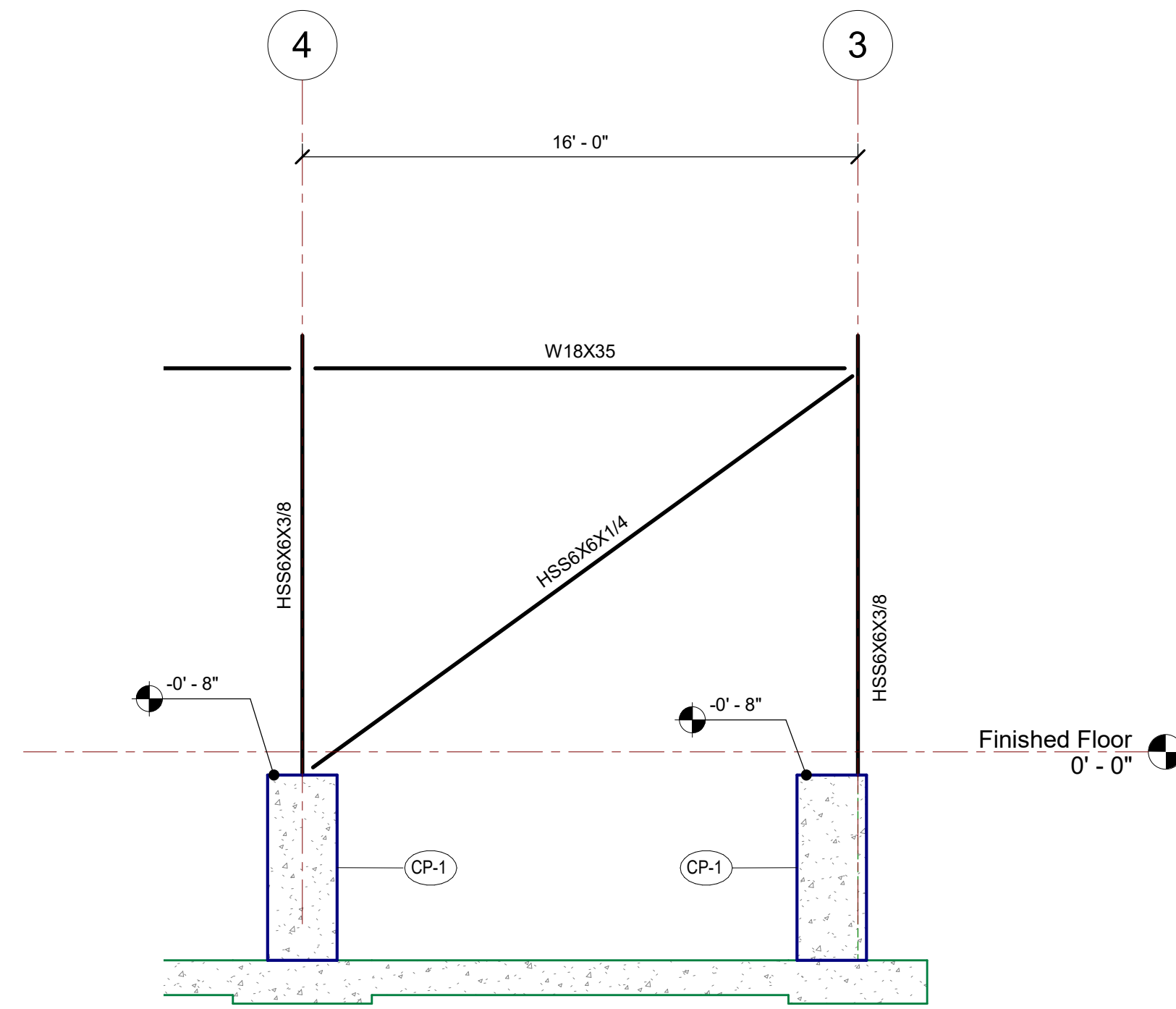
1 BF-1
1/4" = 1'-0"



2 BF-2
1/4" = 1'-0"



3 BF-3
1/4" = 1'-0"



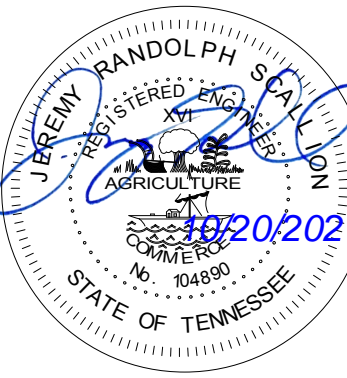
4 BF-4
1/4" = 1'-0"

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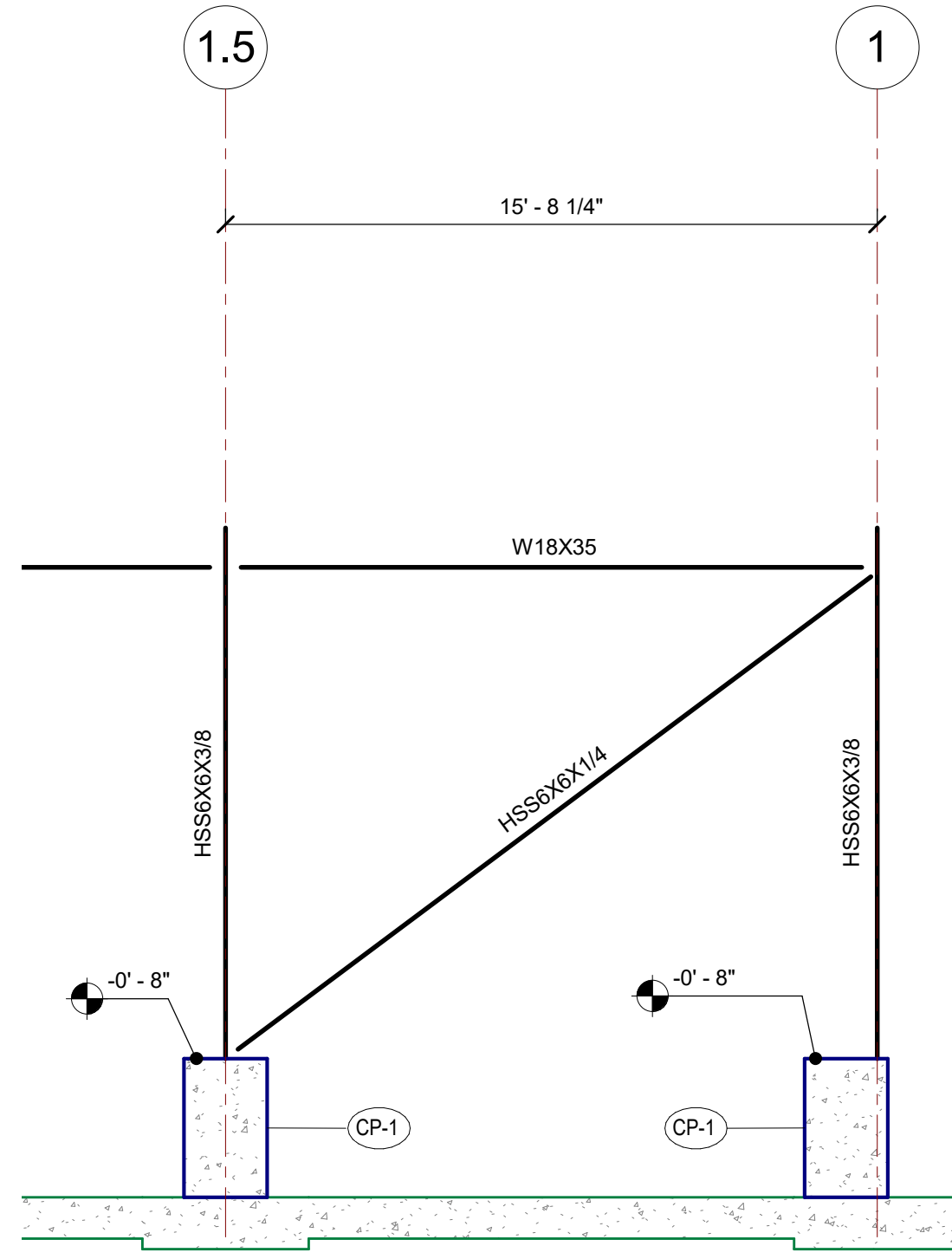
MA PROJECT NO: 0214-21

PROJECT PHASE: CD

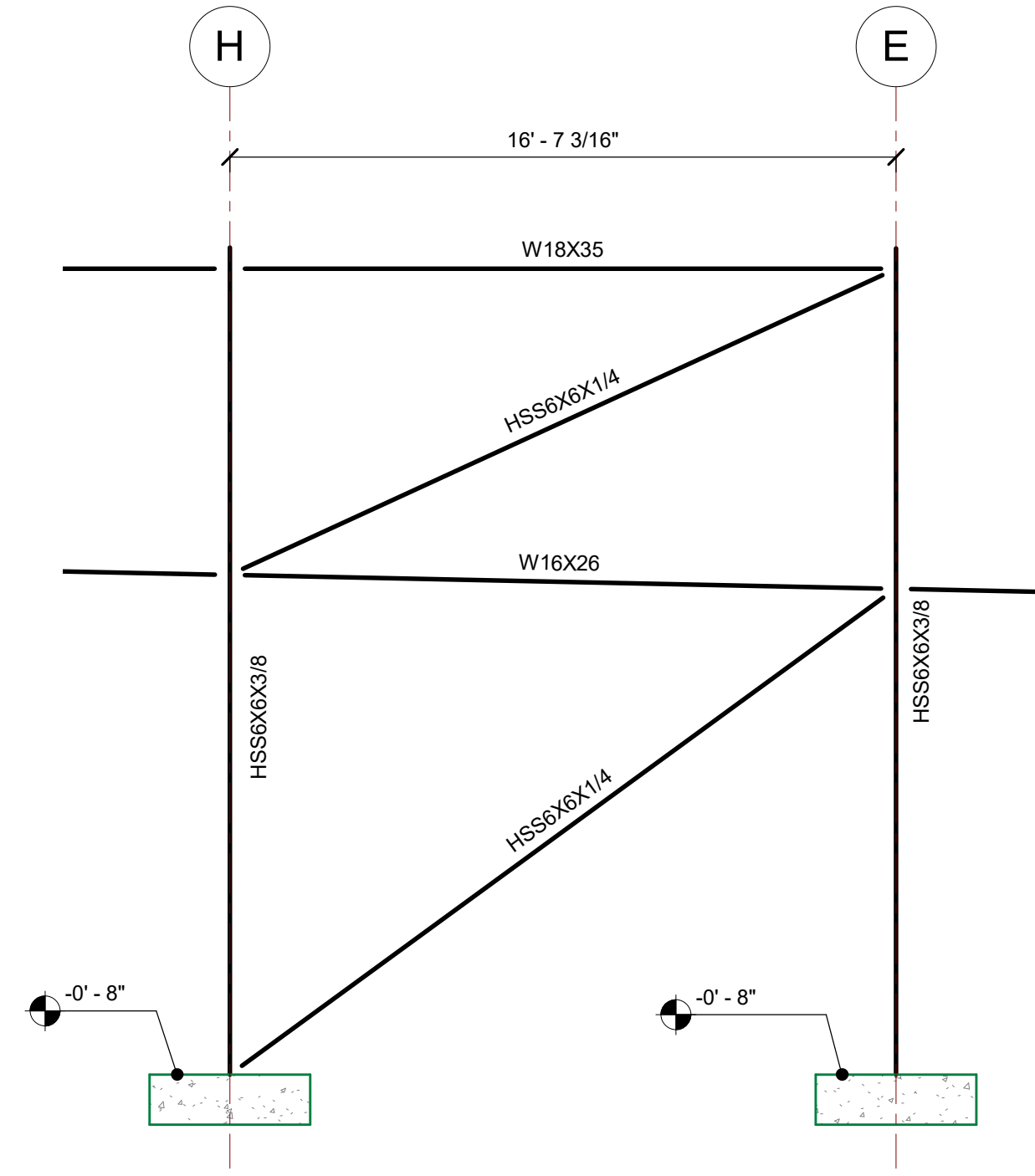
DRAWN BY: JRS

Framing Elevations

S6.1



1 BF-5
1/4" = 1'-0"



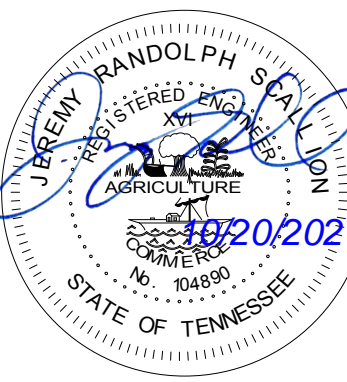
2 BF-6
1/4" = 1'-0"

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Framing Elevations

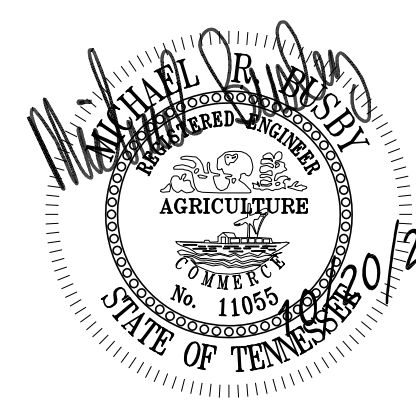
S6.2

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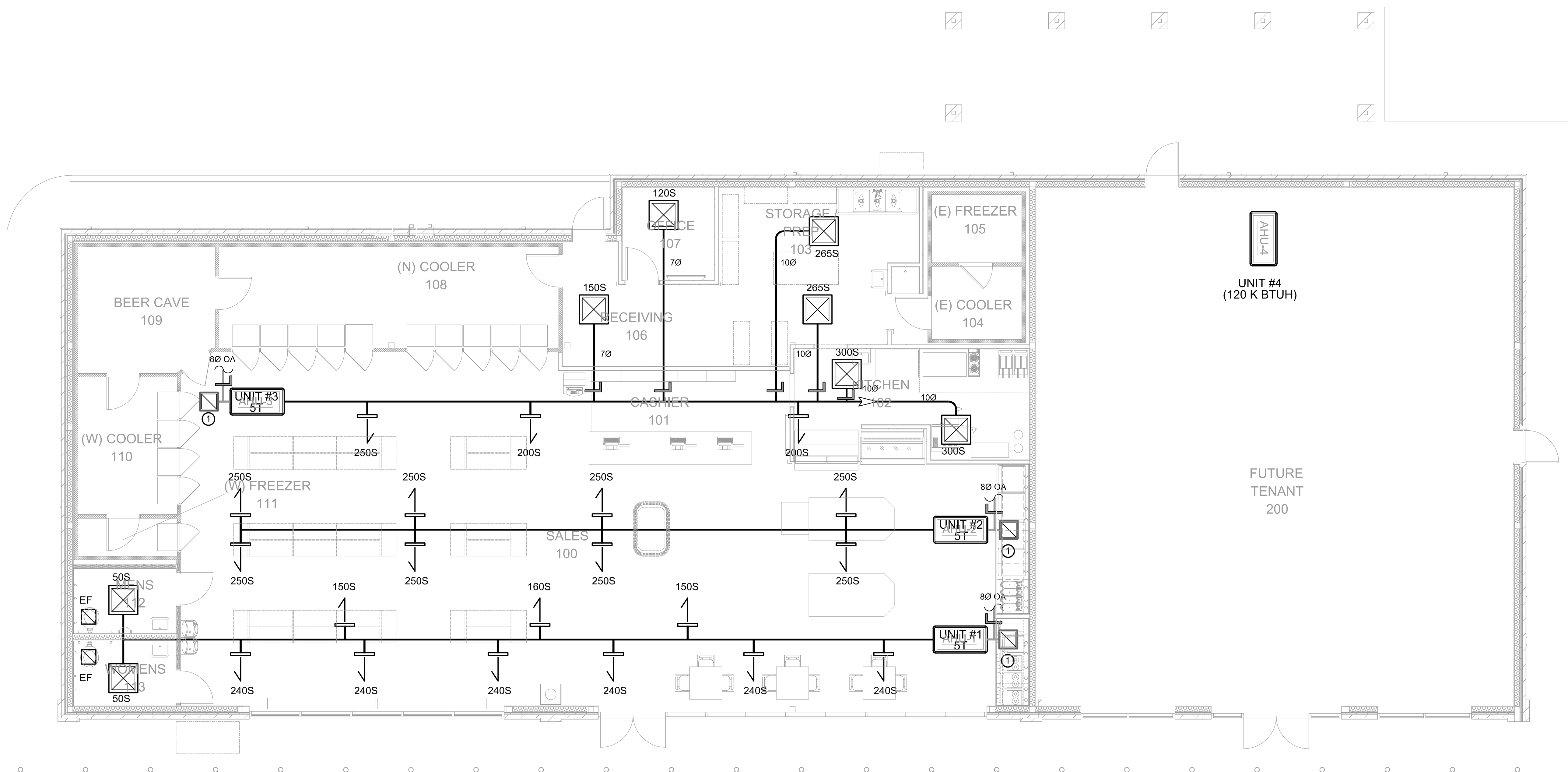
PROJECT PHASE: CD

DRAWN BY: WIN

MECHANICAL PLAN

M-101

ITEM # 4



COMcheck Software Version 4.1.2.2
Mechanical Compliance Certificate

Project Information
 Energy Code: 2018 IECC
 Project Title: ASHLAND CITY C-STORE
 Location: Ashland City, Tennessee
 Climate Zone: 4a
 Project Type: New Construction

Contributor: ASHLAND CITY, TN
 Owner/Agent:
 Designer/Contractor:

Additional Efficiency Package(s)
 Unspecified

Mechanical Systems List

Quantity	System Type & Description
3	HVAC System 1 (Single Zone) Heating: 1 each - Central Furnace, Gas, Capacity = 120 kBtu/h Proposed Efficiency = 80.00% EI, Required Efficiency: 80.00% EI or 80% AFUE Cooling: 1 each - Split System, Capacity = 59 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 14.00 SEER, Required Efficiency: 13.00 SEER Fan System: None
1	HVAC System 2 (Single Zone) Heating: 1 each - Central Furnace, Gas, Capacity = 120 kBtu/h Proposed Efficiency = 80.00% EI, Required Efficiency: 80.00% EI or 80% AFUE Cooling: 1 each - Split System, Capacity = 1 kBtu/h, Air-Cooled Condenser, No Economizer, Economizer exception: None Proposed Efficiency = 14.00 SEER, Required Efficiency: 13.00 SEER Fan System: None
1	Water Heater 1: Electric Storage Water Heater, Capacity: 30 gallons Proposed Efficiency: 1.20 SL, %h (if > 12 kWh), Required Efficiency: 1.20 SL, %h (if > 12 kWh)
1	Water Heater 2: Electric Instantaneous Water Heater, Capacity: 0 gallons No minimum efficiency requirement applies

Mechanical Compliance Statement
 Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.2.2 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

MR BUSBY, PE *MR Busby* 9/11/21
 Name - Title Signature Date

MECHANICAL FLOOR PLAN

SCALE: 3/16" = 1'-0"

HART & COOLEY #821 SIDEWALL DIFFUSERS

8x4	10 - 50 CFM
10x4	60 - 110 CFM
12x4	115 - 140 CFM
10x6	150 - 180 CFM
12x6	190 - 240 CFM
16x6	250 - 300 CFM
20x6	320 - 380 CFM
24x6	380 - 460 CFM
30x6	460 - 580 CFM
36X86	790 - 945 CFM
36X12	960 - 1440 CFM

SUPPLY REGISTER SCHEDULE
T-BAR CEILING CONSTRUCTION

HART & COOLEY HVS CEILING DIFFUSERS
(Unless noted)

6-IN	50 - 100 CFM
8-IN	120 - 200 CFM
10-IN	230 - 300 CFM
12-IN	320 - 400 CFM
14-IN	420 - 500 CFM

1 H&C RHF 45
30X30 RAFG

- GENERAL NOTES**
- ALL DUCT DIMENSIONS INDICATE CLEAR INSIDE OPENING: 26 GA. MINIMUM FOR DUCT LARGER THAN 14" OR 28 GA. MINIMUM FOR DUCT SMALLER THAN 14"
 - PROVIDE ALL NECESSARY DUCT TRANSITIONS TO AND FROM ALL AIR MOVING EQUIPMENT
 - CO-ORDINATE EXACT LOCATION OF CEILING DIFFUSERS AND REGISTERS WITH ARCHITECT CEILING PLAN AND ELECTRICAL LIGHTING
 - CONTRACTOR TO FIELD VERIFY ALL DUCTWORK SIZING AND ROUTING WITH BUILDING CONTRACTOR PRIOR TO FABRICATION
 - SCREW AND TAPE ALL DUCT JOINTS; SCREW AND CAULK ALL TAKE-OFFS
 - WRAP ALL DUCTWORK WITH R-8 FOILBACK DUCTWRAP INSULATION EXCEPT DOUBLE WALL SPIRAL DUCT
 - ALL REGISTERS SHALL BE HART & COOLEY OR EQUIVALENT; STYLE AND SIZE AS INDICATED
 - PROVIDE FLEXIBLE CONNECTORS AT SUPPLY AND RETURN DUCTS AT UNITS
 - INSTALL ALL SYSTEMS IN COMPLIANCE WITH LOCAL, STATE, AND NATIONAL CODES
 - MECHANICAL CONTRACTOR TO INSTALL REFRIGERANT LINES IN ACCORDANCE TO MANUFACTURER'S DATA AND TO PROVIDE OUTDOOR UNIT CONCRETE PADS.
 - PROVIDE VIBRATION ISOLATORS AND CONDENSATE PAN WITH DRAIN FOR AHU
 - HVAC CONTRACTOR TO COORDINATE AND VERIFY ALL UNIT SPECIFICATIONS AND ELECTRICAL REQUIREMENTS PRIOR TO PURCHASE OF EQUIPMENT AND INSTALLATION

ASHLAND CITY C-STORE

SPECIFICATIONS (UNIT #1, UNIT #2, UNIT #3)	
GAS FUR (TRANE OR EQUAL)	4TTR4060/4TXCD010+SSVD120
NOMINAL TONS	5
DESIGN CFM	2000
COOLING CAPACITY, BTUH	59000
HEATING CAPACITY, IN/OUT, BTU	120000/113100
EXTERNAL STATIC, IN WG	0.30
V/PH/HZ (CU)	208-230/1/60
MCA/MOCP (CU)	27/45
V/PH/HZ (AH)	115/1/60
MCA/MOCP (AH)	14.1/15
OA (CFM)	200 EA

SPECIFICATIONS (UNIT #4)	
GAS FUR (TRANE OR EQUAL)	SSVD120
DESIGN CFM	2000
HEATING CAPACITY, IN/OUT, BTU	120000/113100
V/PH/HZ (AH)	115/1/60
MCA/MOCP (AH)	14.1/15

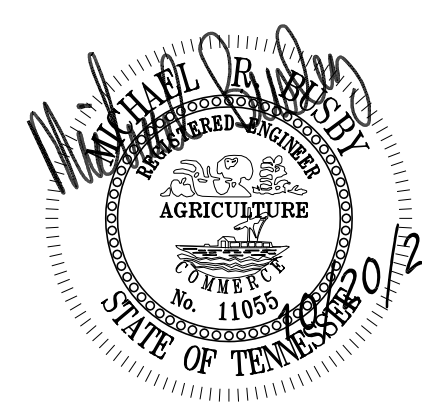
EF: PENN-ZEPHR Z3H: 39 W; 0.5 A; 1550 RPM; 70 CFM @ 0.125"

NOTE: UNITS TO HAVE ECONOMIZERS IF REQUIRED BY LOCAL CODES

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 Phone: 615-891-4565 | Fax: 615-250-0580
 Project #04321



REVISIONS:

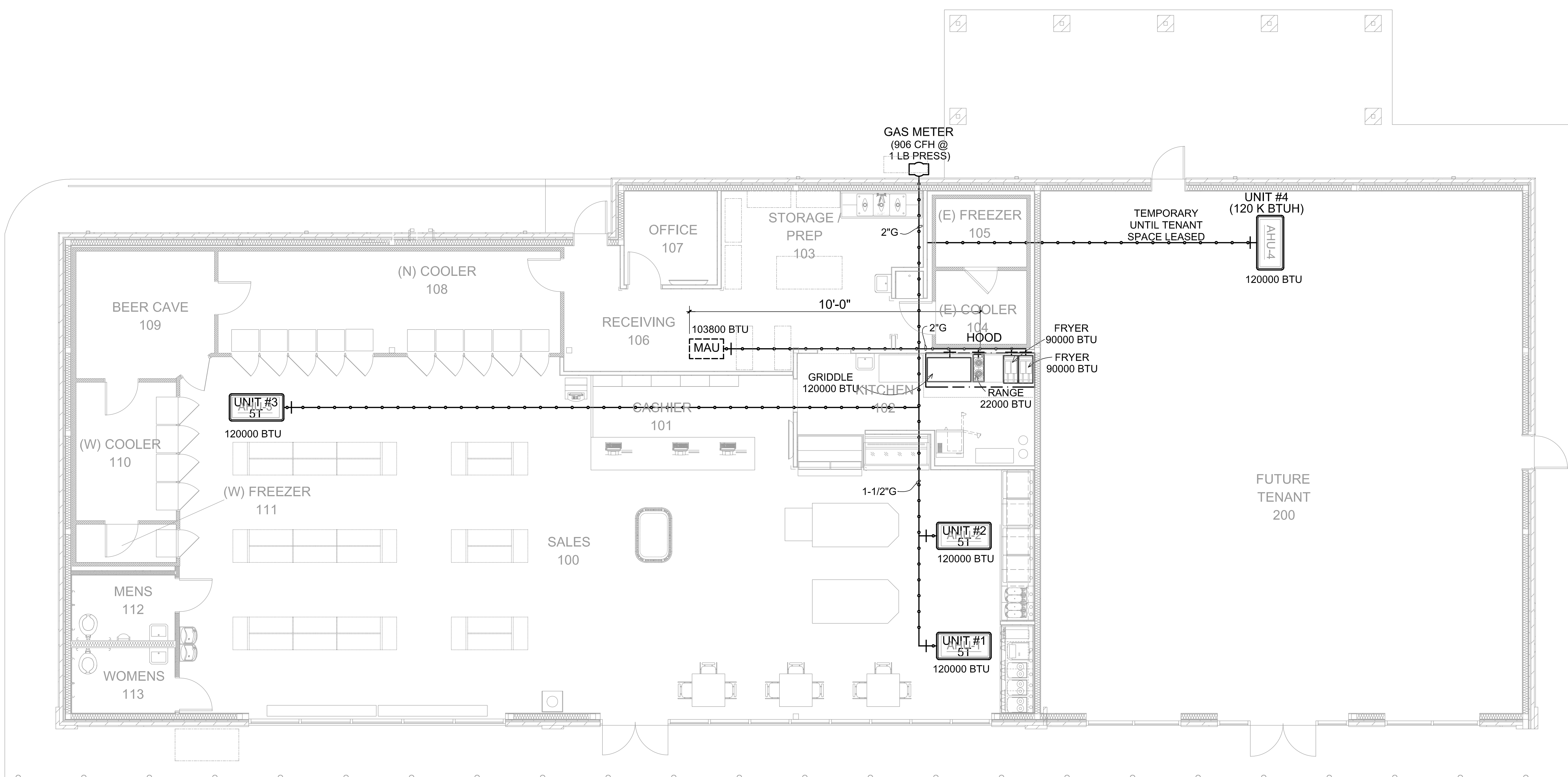
DELTA	DESCRIPTION	DATE

DATE OF ISSUE: 10.20.2021
 MA PROJECT NO: 0214-21
 PROJECT PHASE: CD
 DRAWN BY: WIN

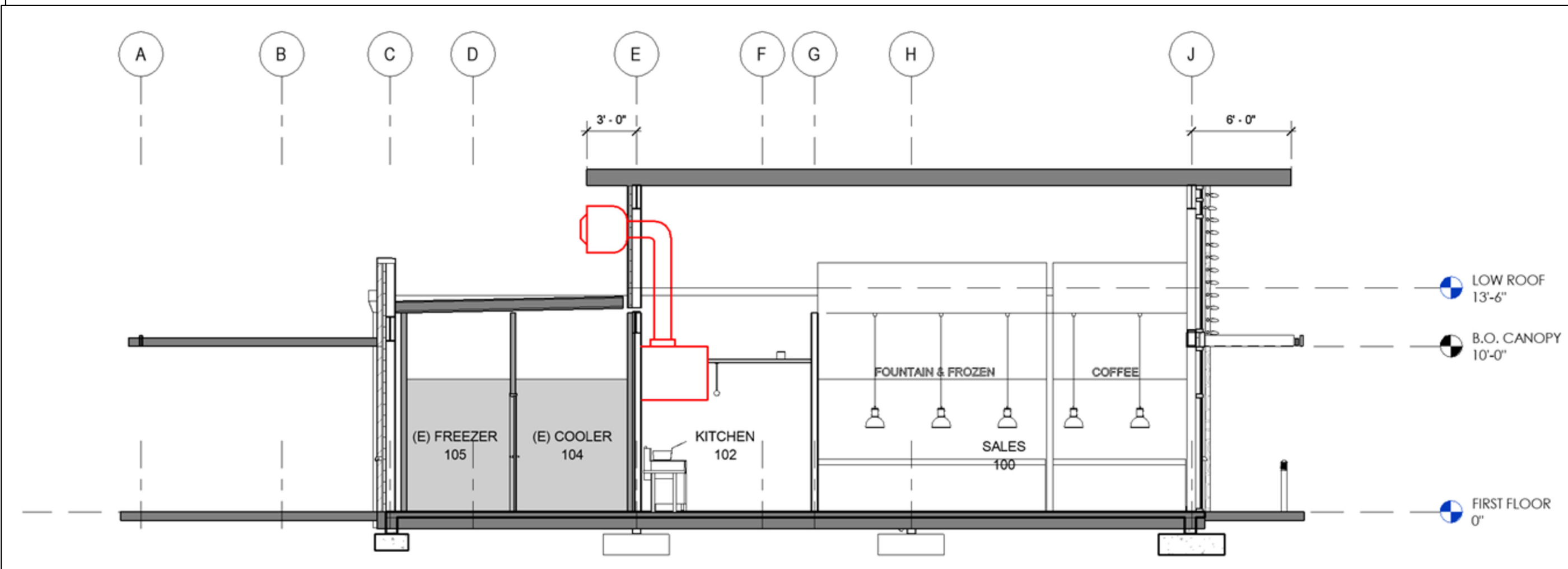
MECHANICAL GAS PLAN

M-102

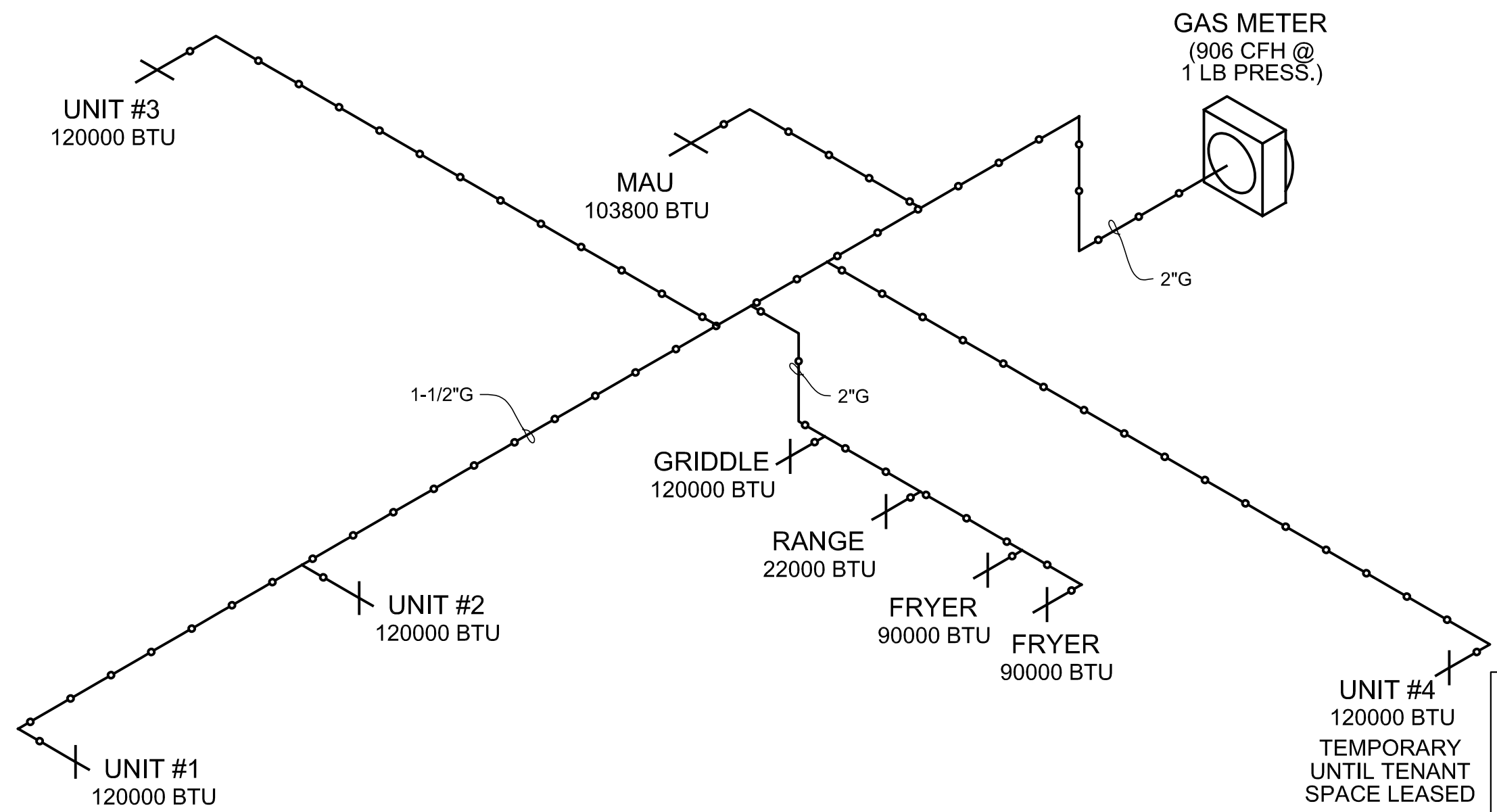
ITEM # 4



GAS FLOOR PLAN
 SCALE: 3/16" = 1'-0"



Hood Exhaust & MAU elevation
 SCALE: NTS



GAS RISER
 SCALE: NTS

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HOOD INFORMATION - JOB#5109685

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)					TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG			
										WIDTH	LENG	HEIGHT	DIA	CFM			VEL	SP	END TO END	ROW
1	KH1	5424 EX-2-PSP-F	ECON-AIR	10' 0"	600 DEG	I	HEAVY	200	2000			4'	14'	2000	1871	-0.801'	1600	430 SS WHERE EXPOSED	ALONE	ALONE

HOOD INFORMATION

HOOD NO	TAG	FILTER(S)				LIGHT(S)				UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WEIGHT		
		TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM	SIZE			ELECTRICAL MODEL #	SWITCHES QUANTITY
1	KH1	CAPRATE SOLID FILTER	7	20"	16"	85% SEE FILTER SPEC	3	RECESSED ROUND	NO	LEFT	12"x54"x24"	TANK FS	4.0/4.0	DCV-1111	1 LIGHT 1 FAN	YES	876 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	KH1	FIELD WRAPPER 18.00' HIGH FRONT, LEFT. RIGHT END STANDOFF (FINISHED) 1' WIDE 54' LONG INSULATED. INSULATION FOR BACK OF HOOD.

PERFORATED SUPPLY PLENUM(S)

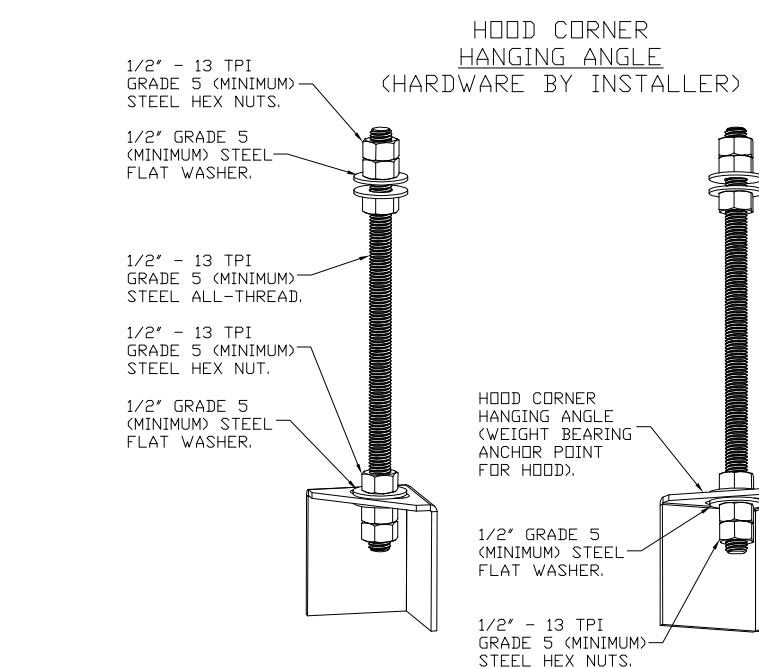
HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)				
							WIDTH	LENG	DIA	CFM	SP
1	KH1	Front	133'	14'	6'	MUA	12"	28"		800	0.191"
						MUA	12"	28"		800	0.191"

SYSTEM DESIGN VERIFICATION (SDV)

IF ORDERED, CAS SERVICE WILL PERFORM A SYSTEM DESIGN VERIFICATION (SDV) ONCE ALL EQUIPMENT HAS HAD A COMPLETE START UP PER THE OPERATION AND INSTALLATION MANUAL. TYPICALLY, THE SDV WILL BE PERFORMED AFTER ALL INSPECTIONS ARE COMPLETE.

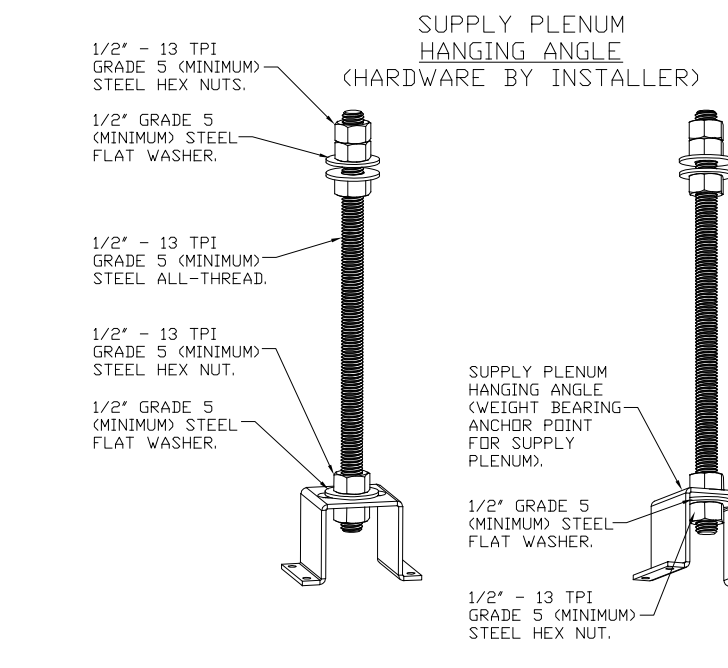
ANY FIELD RELATED DISCREPANCIES THAT ARE DISCOVERED DURING THE SDV WILL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR AND CORRESPONDING TRADES ON SITE. THESE ISSUES WILL BE DOCUMENTED AND FORWARDED TO THE APPROPRIATE SALES OFFICE. IF CAS SERVICE HAS TO RESOLVE A DISCREPANCY THAT IS A FIELD ISSUE, THE GENERAL CONTRACTOR WILL BE NOTIFIED AND BILLED FOR THE WORK. SHOULD A RETURN TRIP BE REQUIRED DUE TO ANY FIELD RELATED DISCREPANCY THAT CANNOT BE RESOLVED DURING THE SDV, THERE WILL BE ADDITIONAL TRIP CHARGES.

DURING THE SDV, CAS SERVICE WILL ADDRESS ANY DISCREPANCY THAT IS THE FAULT OF THE MANUFACTURER. SHOULD A RETURN TRIP BE REQUIRED, THE GENERAL CONTRACTOR AND APPROPRIATE SALES OFFICE WILL BE NOTIFIED. THERE WILL BE NO ADDITIONAL CHARGES FOR MANUFACTURER DISCREPANCIES.



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD, SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD, SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR PSP HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

SPECIFICATION: CAPRATE® GREASE-STOP® SOLID FILTER

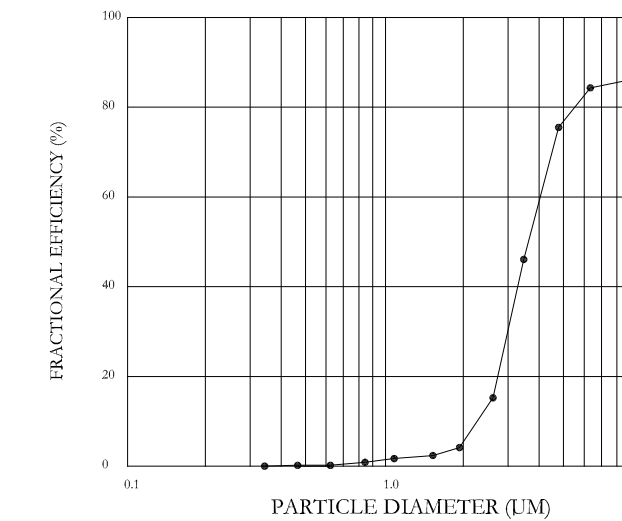
THE CAPRATE GREASE-STOP SOLID FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-Baffle DESIGN IN CONJUNCTION WITH A SLOTTED REAR Baffle DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

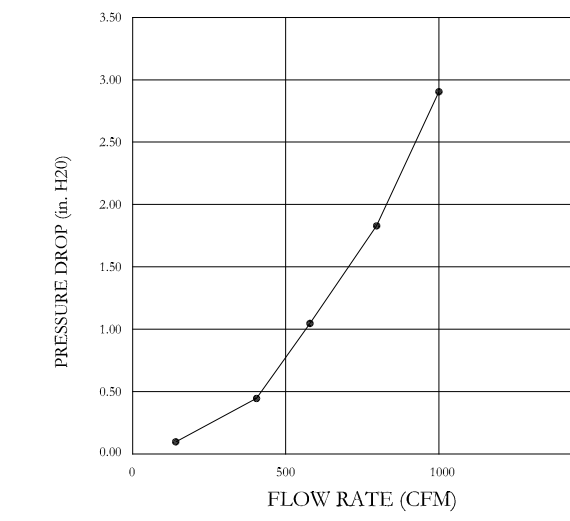
UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE. THE CAPRATE GREASE-STOP SOLID WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

EFFICIENCY VS. PARTICLE DIAMETER



PRESSURE DROP VS. FLOW RATE



CAPRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
NFPA #96.
NSF STANDARD #2.
UL STANDARD #1046.
INT. MECH. CODE (IMC).
ULC-S649.



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DESCRIPTION	DATE



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Ashland City C-Store
ASHLAND CITY, TN, 37015

DATE:	9/28/2021
DWG.#:	HOOD-1-5109685
DRAWN BY:	DDR-44
SCALE:	3/4" = 1'-0"
HOOD	
SHEET NO.	1

ECON AIR HOODS ARE BUILT IN COMPLIANCE WITH

NFPA #96
UL 710 & ULC710 STANDARDS
E.T.L. LISTED 3054804-001

CUSTOMER APPROVAL TO MANUFACTURE:

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EMAIL: reg44@econair.com

GREASE DUCT SPECIFICATIONS:
PROVIDE GREASE DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW" ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL "DW" IS LISTED TO UL-1978 AND IS INSTALLED USING "V" CLAMP LOCKING CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL "DW" DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER THE MANUFACTURES INSTALLATION GUIDE.
PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER. PER MANUFACTURES LISTING MODEL "DW" HORIZONTAL RUNS LESS THAN 75 FT. CAN BE SLOPED 1/16" PER 12", HORIZONTAL RUNS MORE THAN 75 FT. CAN BE SLOPED 3/16" PER 12". DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OF GREASE ACCUMULATION IN HORIZONTAL RUNS.

IF THE DUCT IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE UL-2221 LISTED DOUBLE WALL GREASE DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW- 2R, 3R, OR 3Z" ROUND 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.

ASHLAND CITY C-STORE

MERIDIAN ARCHITECTURE

nashville, tennessee
office@meridiantn.com
t: 615.990.2236
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DELTA	DESCRIPTION	DATE

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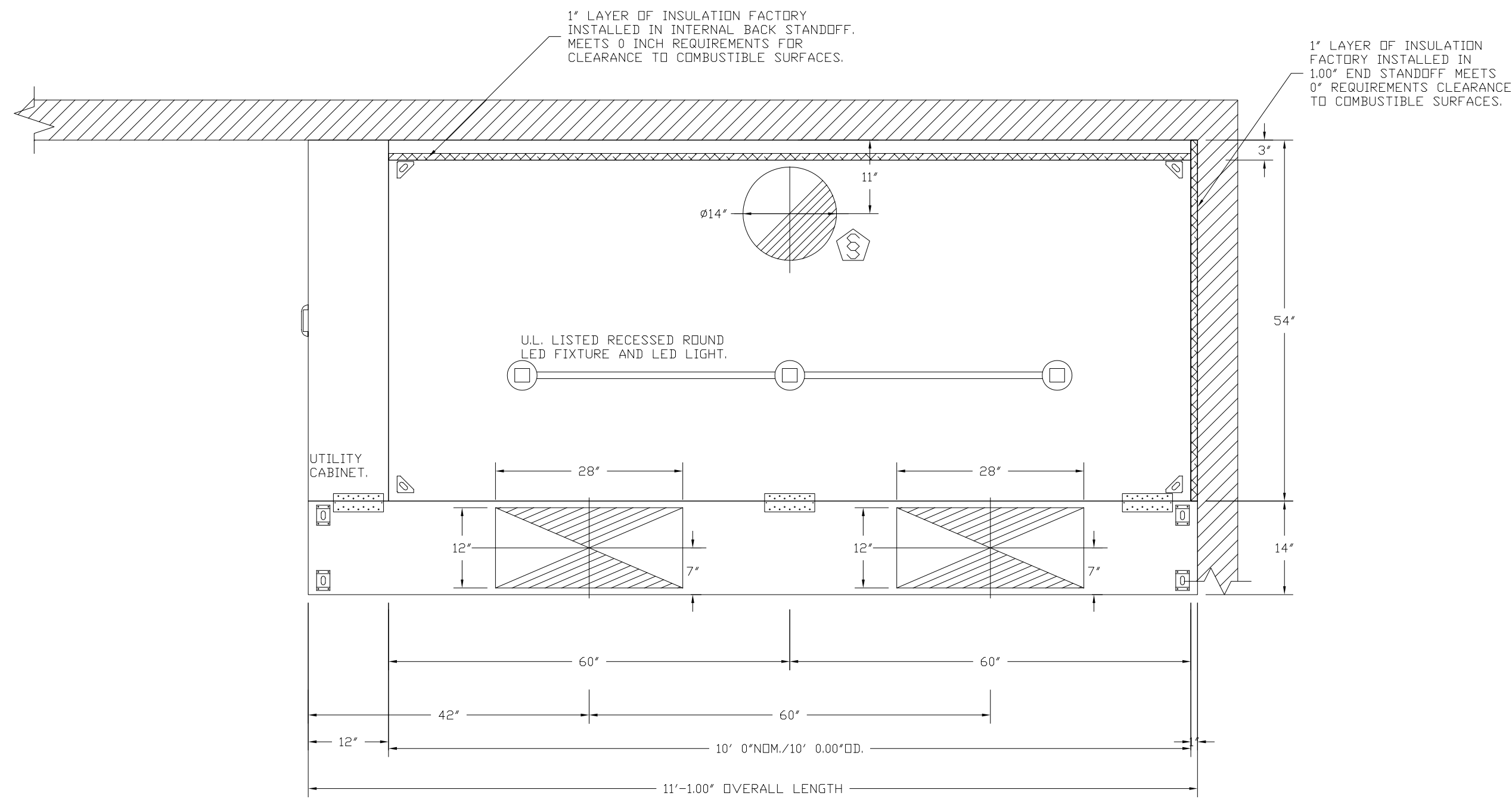
PROJECT PHASE: CD

DRAWN BY: WIN

MECHANICAL HOOD SPECIFICATIONS

M-201

W in ENGINEERING
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Phone: 615-891-4565 | Fax: 615-250-0580
Project #04321



PLAN VIEW - HOOD #1 (KH1)
10' 0.00" LONG 5424EX-2-PSP-F

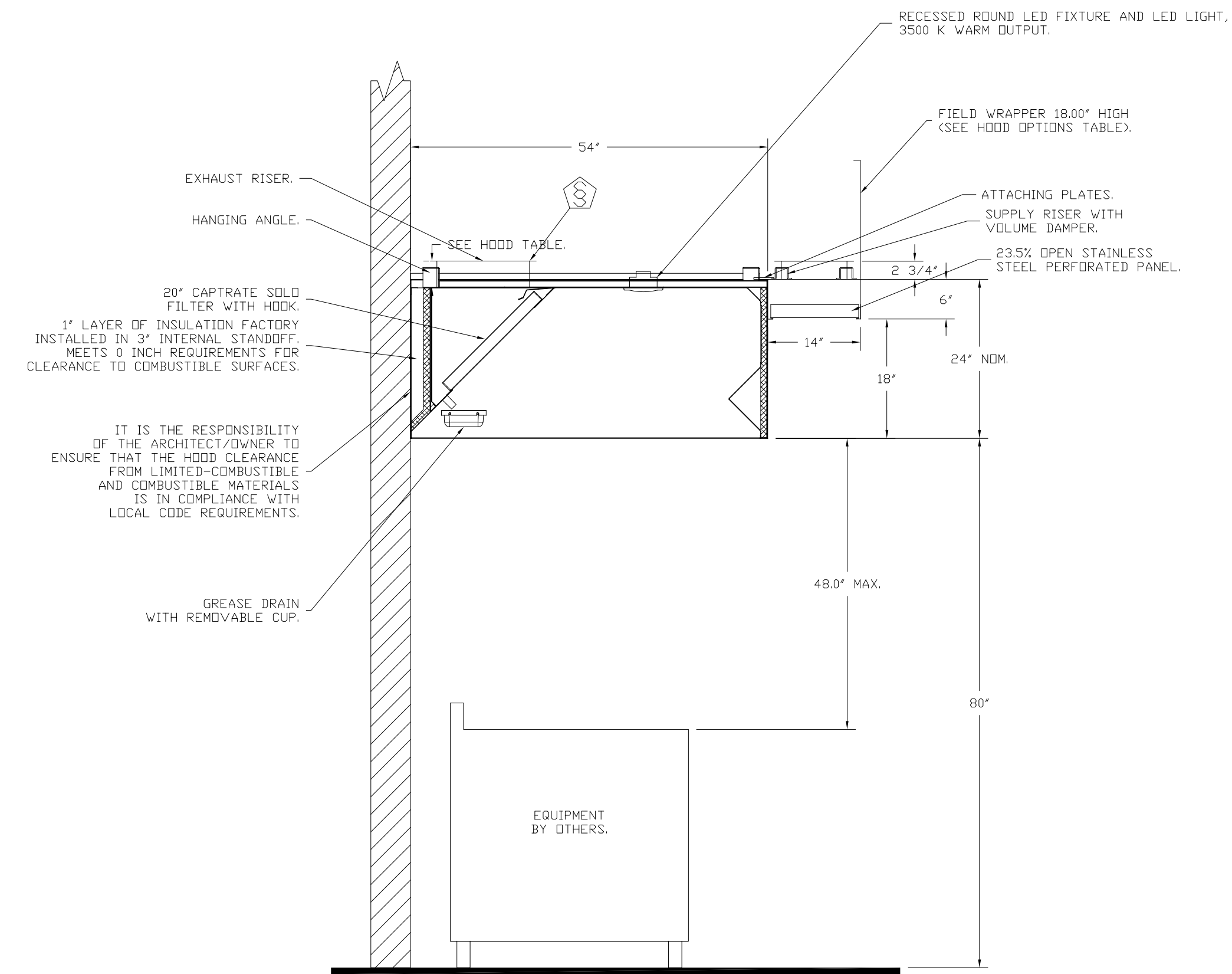
VERIFY CEILING HEIGHT

HEIGHT REQUIRED TO VERIFY THAT HOOD FITS SPACE AND TO SIZE THE ENCLOSURE PANELS

HVAC DISTRIBUTION NOTE

IT IS RECOMMENDED NOT TO INSTALL HIGH VELOCITY DIFFUSERS OR HVAC RETURNS WITHIN TEN (10) FEET OF THE EXHAUST HOOD. PERFORATED DIFFUSERS ARE RECOMMENDED.

ECONAIR SYSTEMS RECOMMENDS THE USE OF LISTED, PRE-FABRICATED ROUND GREASE EXHAUST DUCT TO REDUCE STATIC PRESSURE IN THE SYSTEM, MINIMIZE INSTALLATION AND INSPECTION TIMES, AND ENSURE DUCT IS LIQUID TIGHT



SECTION VIEW - MODEL 5424EX-2-PSP-F
HOOD - #1 (KH1)

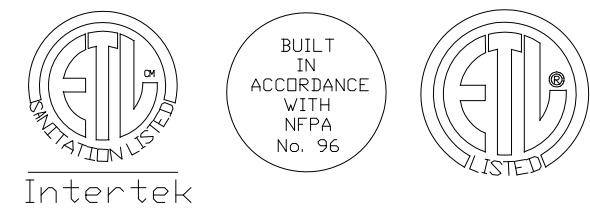
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ASHLAND CITY, TN, 37015

DATE:	9/28/2021
DWG.#:	HOOD-2-5109685
DRAWN BY:	DDR-44
SCALE:	3/4" = 1'-0"
HOOD	
SHEET NO.	2

ECON AIR HOODS ARE BUILT IN COMPLIANCE WITH



NFPA #96
UL 710 & ULC710 STANDARDS
E.T.L. LISTED 3054804-001

CUSTOMER APPROVAL TO MANUFACTURE:

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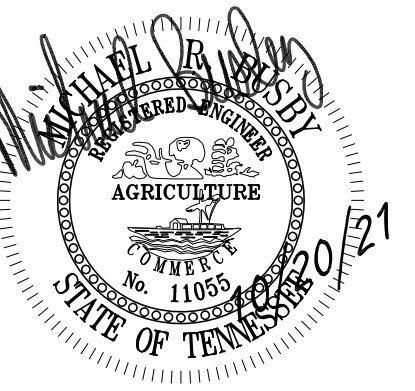
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DELTA	DESCRIPTION	DATE

DATE OF ISSUE: 10.20.2021
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PROJECT PHASE: CD
DRAWN BY: WIN

CONSULTANT

2 International Plaza Suite 410 Nashville, TN 37217
Phone: 615-891-4565 | Fax: 615-250-0580
Project #04321

MECHANICAL HOOD SPECIFICATIONS

M-202

SECTION 23 38 13 13
 SPECIFICATIONS
 TAG: Commercial Kitchen Ventilation Hoods, Listed Commercial Kitchen Hoods

PART 1 - GENERAL

1.1 SUMMARY

- A. The ND2 series is a Type I, wall canopy hood for use over 600°F cooking surface temperatures. The aerodynamic design includes a mechanical baffle and performance enhancing lip for exceptional capture and containment.
- B. The hood shall have the size, shape, and performance specified on drawings.

1.2 SUBMITTALS

- A. The manufacturer assumes no liability for the use or results of use from this document. Specifications are to be reviewed by the engineer to confirm the project's requirements and meet Federal, State, and Local codes and regulations.
- B. As the manufacturer continues product development, it reserves the right to change design and specifications without notice.
- C. The manufacturer shall supply complete computer generated submittal drawings, including hood section view(s) and hood plan view(s). These drawings must be available to the engineer, architect, and owner for their use in construction, operation, and maintenance.

1.3 QUALITY ASSURANCE

- A. This hood is ETL-listed to standard UL710, ULC710, and ULC-S646 when installed in accordance with these installation instructions and National Fire Protection Association Standard NFPA 96, Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations.*
- B. Built-in compliance with NSF/ANSI Standard 2.
- C. The hood shall be ETL Listed as:
 - 1. "Exhaust Hood Without Exhaust Damper."
 - 2. ETL Sanitation Listed and built in accordance with NFPA 96.
 - 3. The ETL label shall list temperature rating(s) and minimum CFM/ft rating(s).

1.4 WARRANTY

- A. All units shall be provided with the following standard warranty:
 - 1. This equipment is warranted to be free from defects in materials and workmanship, under normal use and service, for a period of 2-years from date of shipment.
- B. The manufacturer shall not be liable for incidental and consequential losses and damages potentially attributable to malfunctioning equipment. Should any part of the equipment prove to be defective in material or workmanship within the 2-year warranty period, upon examination by the manufacturer, such part will be repaired or replaced by manufacturer at no charge. The buyer shall pay all labor costs incurred in connection with such repair or replacement. Equipment shall not be returned without manufacturer's prior authorization, and all returned equipment shall be shipped by the buyer, freight prepaid to a destination determined by the manufacturer.
- C. Refer to Manufacturer's Operation, Installation, and Maintenance (OIM) Manual for detailed descriptions of what is/is not covered and contact information for warranty claims.

PART 2 - PRODUCTS

2.1 GENERAL

- A. Construction shall be dependent on the structural application to minimize distortion and other defects. All seams, joints, and penetrations of the hood enclosure to the lower outermost perimeter, which directs and captures grease-laden vapor and exhaust gases, shall have a liquid-tight continuous external weld in accordance with NFPA 96.

- B. Duct sizes, CFM, and static pressure requirements shall be as shown on drawings. Static pressure requirements shall be precise and accurate; air velocity and volume information shall be accurate within 1-ft increments along the length of the ventilator.

applicable building codes.

2.2 CONSTRUCTION

- A. Construction shall be type 430 stainless steel.
- B. Double wall insulated front to eliminate condensation and increase rigidity on wide sizes. The insulation shall have a flexural modulus of 475 EI, meet UL 181 requirements and be in accordance with NFPA 90A and 90B.
- C. Hood shall be equipped with a minimum of four connections for hanger rods. Hood lengths greater than 12' will have added hangers.
- D. Exhaust duct collar to be 4" high with flange.
- E. The grease drain system shall be an enclosed integral part of the hood back and have slopes with an exposed, removable 1/2 grease cup to facilitate cleaning.
- F. An integral baffle to direct grease laden vapors toward the exhaust filter bank.
- G. Hood shall be furnished with UL classified filters, supplied in size and quantity as required by ventilator.
- H. All seams shall be welded and have stainless steel on exposed surfaces.

2.3 LIGHTING

- A. Recessed round LED fixture and LED light, 3500K Warm output.

2.4 FILTERS

- A. Stainless Steel Caprate Solo filter with hook, ETL Listed. Particulate capture efficiency: 85% efficient at 9 microns, 76% efficient at 5 microns.

2.5 OPTIONS

- A. Fire Suppression System: UL 300 fire suppression system.
- B. Optional perforated supply plenum shall provide make-up air discharged below the cooking equipment.
 - 1. Perforated diffuser plates shall be included in the design to provide even air distribution.
 - 2. Unexposed surfaces shall be constructed of aluminized steel. Plenum shall be insulated to prevent condensation.
 - 3. Perforated Supply Plenum (PSP)
- C. Hood Mounted Utility Cabinet - Cabinet can store listed fire suppression system, listed components, pre-wired electrical controls.

2.6 ACCESSORIES

- A. Standoff(s) selected:
 - 1. Right End Standoff
- B. Wrapper(s) may be installed from the factory or field installed. Wrapper(s) selected:
 - 1. Wrapper
- C. Miscellaneous option(s) selected:
 - 1. Insulation for Back of Hood - Backside of hood is fully insulated.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas and conditions under which the system is installed. Do not proceed with work until unsatisfactory conditions have been corrected in a manner acceptable to installer.

3.2 INSTALLATION

- A. Install in accordance with manufacturer's instructions, drawings, written specifications, manufacturer's installation manual, and all

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DESCRIPTION	DATE



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Ashland City C-Store
 ASHLAND CITY, TN, 37015

DATE: 9/28/2021
 DWG.#: HOOD-3-5109685
 DRAWN BY: DDR-44
 SCALE: 3/4" = 1'-0"
 HOOD
 SHEET NO. 3

ECON AIR HOODS ARE BUILT IN COMPLIANCE WITH

NFPA #96
 UL 710 & ULC710 STANDARDS
 E.T.L. LISTED 3054804-001

CUSTOMER APPROVAL TO MANUFACTURE:

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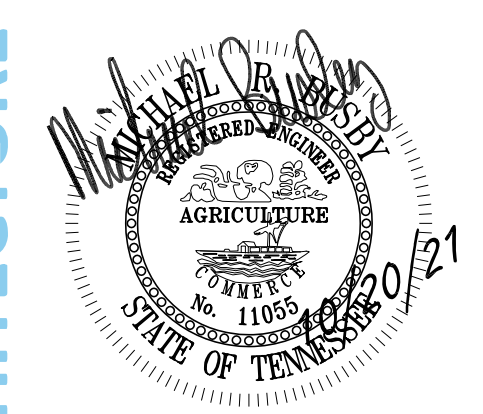
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 DHAVAL PATEL
 (615)-598-5887 | dhawalom@gmail.com

MERIDIAN ARCHITECTURE



nashville, tennessee
 office@meridiantn.com
 t: 615.990.2236
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DATE OF ISSUE: 10.20.2021
 MA PROJECT NO: 0214-21
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MECHANICAL HOOD SPECIFICATIONS

M-203

CONSULTANT

2 International Plaza Suite 410 Nashville, TN 37217
 Phone: 615-891-4565 | Fax: 615-250-0580
 Project #04321

FIRE SYSTEM INFORMATION - JOB#5109685

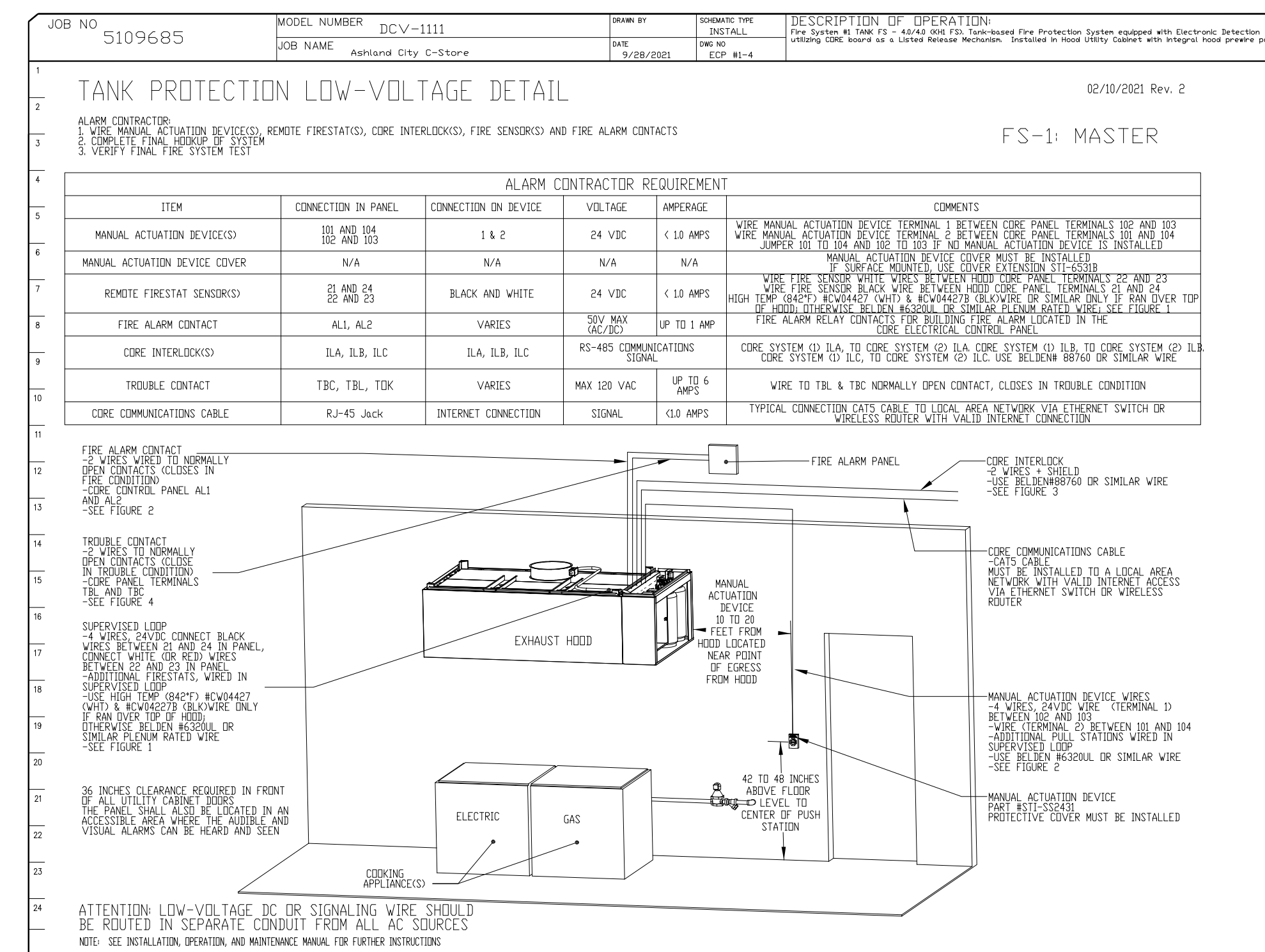
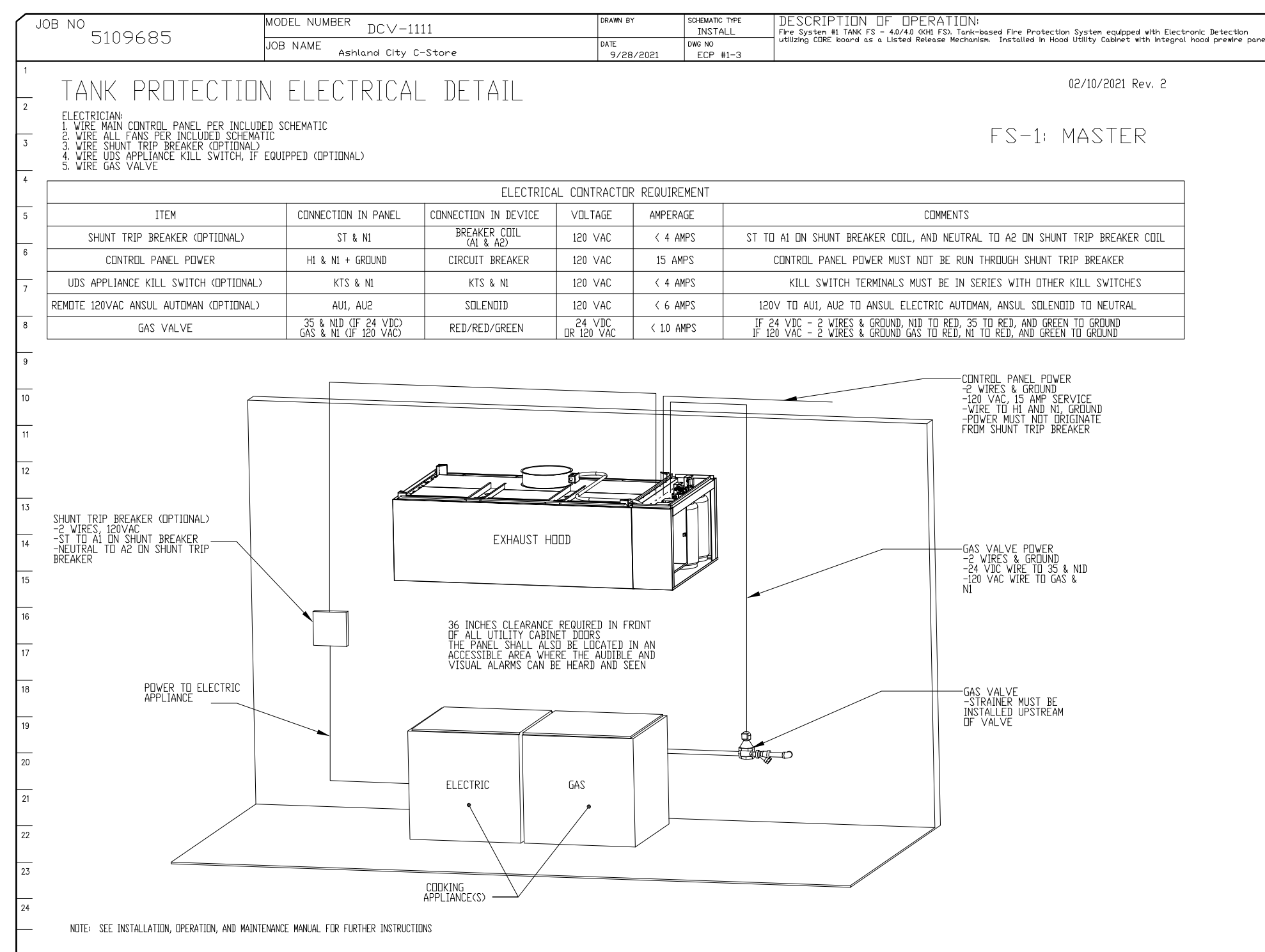
FIRE SYSTEM NO	TAG	TYPE	SIZE	FLOW POINTS	INSTALLATION	
					SYSTEM	LOCATION ON HOOD
1	KHI FS	TANK FS	4.0/4.0	24	FIRE CABINET LEFT	LEFT, HOOD 1

GAS VALVE(S)

FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1	KHI FS	SC ELECTRICAL	2.000	ECON-AIR

FIRE SYSTEM PARTS LIST KEY

FIRE SYSTEM NO	TAG	KEY NUMBER - PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST
1	KHI FS	0 - 0 - 12-F28021-32144-0T-360 DUCT FIRE THERMOSTAT WITH 12 FOOT WIRE LEADS. NO. CLDSE DN TEMP RISE AT 360°F.	1	0
		0 - 0 - 87-120042-001 SECONDARY ACTUATOR VALVE (SVA) - SINGLE ACTUATOR, REQUIRES PRIMARY RELEASE ACTUATOR, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - 87-120045-001 HOSE, SECONDARY ACTUATOR HOSE, 7.5' BRAIDED STAINLESS STEEL, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - 87-300001-001 TANK - PRESSURIZED TANK USED FOR TANK FIRE SUPPRESSION.	2	0
		0 - 0 - 87-300030-001 PRIMARY ACTUATOR KIT (PAK) - ACTUATOR AND RELEASE SOLENOID ASSEMBLY, ONE NEEDED PER FIRE SYSTEM, SUPERVISED, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - 87-300033-001 DIN CONNECTOR, CANFIELD PART #5J560-201-EU0A, TANK FIRE SUPPRESSION, SUBMINATURE SOLENOID CONNECTION (CEDI VENDOR 30377).	1	0
		0 - 0 - 87-300152-001 HARDWARE, SVA BOLTS, TANK FIRE SUPPRESSION.	5	0
		0 - 0 - 9055455PC PRO PRESS 1/2 PRESS X PRESS 90 ELBOW L.D.	8	0
		0 - 0 - 9097200PC PRO PRESS PC611 1/2 PRESS TEE L.D.	5	0
		0 - 0 - 98694A115 HARDWARE, DATANKLOCK LOCKING BRACKET SQUARE NUTS 5/16" ZINC, TANK FIRE SUPPRESSION.	4	0
		0 - 0 - A0034332 JUNCTION BOX FOR MANUAL PULL STATION. 1.5" DEEP BACK BDX, RED COLOR.	1	0
		0 - 0 - B1145 3/8" BLACK IRON 90 ELL.	2	0
		0 - 0 - DATANKLOCK DISCHARGE ADAPTER TANK LOCKING PLATE FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	0
		0 - 0 - TANK STRAP TANK STRAP - USED FOR TANK FIRE SUPPRESSION.	6	0
		0 - 0 - TFS-UCTANKBRACKET TANK BRACKET FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	0
		0 - 0 - WK-283952-000 DISCHARGE ADAPTER, TANK FIRE SUPPRESSION.	2	0
		16 - 16 - 3070-3/8H-10-SS NOZZLE - TANK PROTECTION APPLIANCE COVERAGE NOZZLE (INCLUDES METAL BLDW OFF CAP, LANYARD, AND CHROME-PLATED PIPE)- 4 FLOW POINTS.	6	0
		16 - 16 - 79210 1/2" X 3/8" NPT MALE ADAPTER, VIEGA.	6	0
		26 - 26 - QSA-3/8 QUIK SEAL - 3/8" (UL).	6	0
		34 - 34 - A0034331 24VDC SINGLE ACTION MANUAL ACTUATION DEVICE (PUSH/PULL STATION) WITH PROTECTIVE COVER, ONE (1) NORMALLY OPEN CONTACT. RED COLOR.	1	0



CUSTOMER APPROVAL TO MANUFACTURE:

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Revise and Resubmit

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DATE: 9/28/2021
DWG.#: FS-1-5109685
DRAWN BY: DDR-44
SCALE: 3/4" = 1'-0"
FIRE SYSTEM

SHEET NO.
4

CONSULTANT

Win ENGINEERING
2 International Plaza Suite 410 Nashville, TN 37217
Phone: 615-891-4565 | Fax: 615-250-0580
Project #04321

ASHLAND CITY C-STORE
DHAVAL PATEL
0 Old Hydes Ferry Pike, Ashland City, TN 37015

CLIENT CONTACT:
DHAVAL PATEL
(615) 598-5887 | dhavalom@gmail.com

MERIDIAN ARCHITECTURE
nashville, tennessee
office@meridiantn.com
t: 615.990.2236
www.meridiantn.com

REVISIONS:

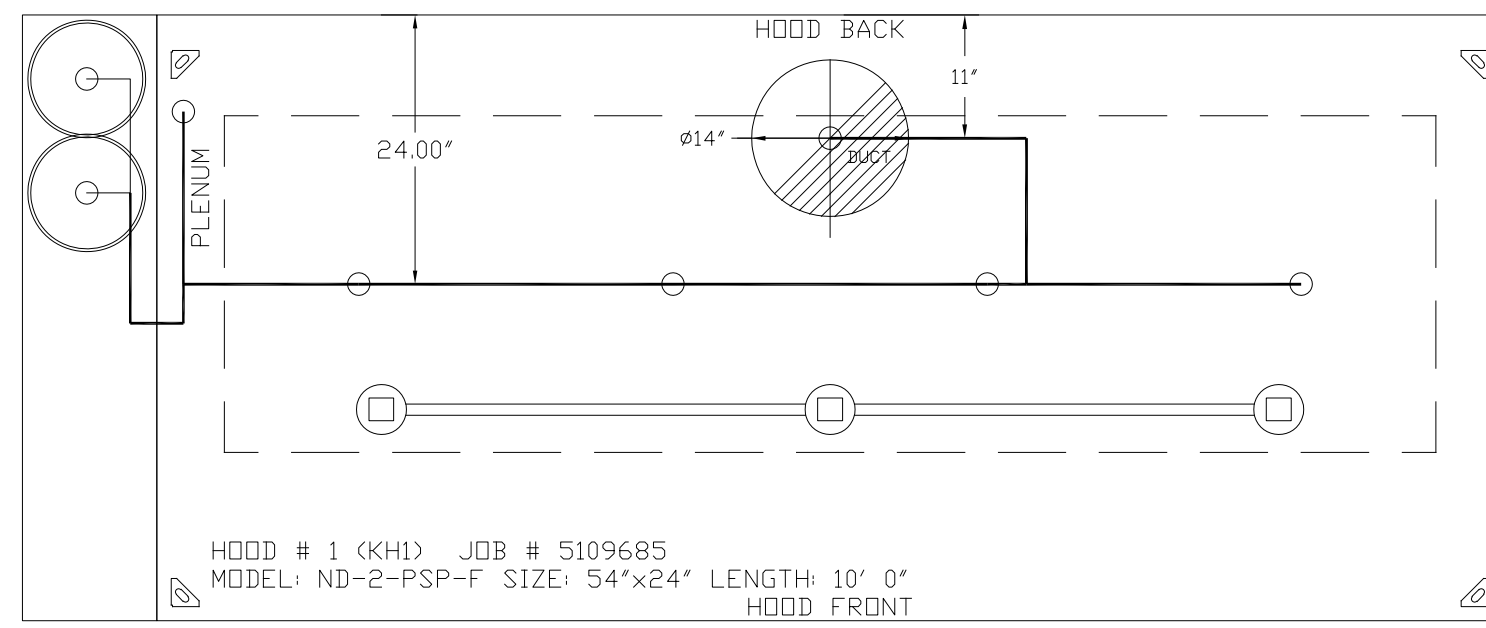
DELTA	DESCRIPTION	DATE

DATE OF ISSUE: 10.20.2021
MA PROJECT NO: 0214-21
PROJECT PHASE: CD
DRAWN BY: WIN

MECHANICAL HOOD SPECIFICATIONS

M-204

ITEM # 4

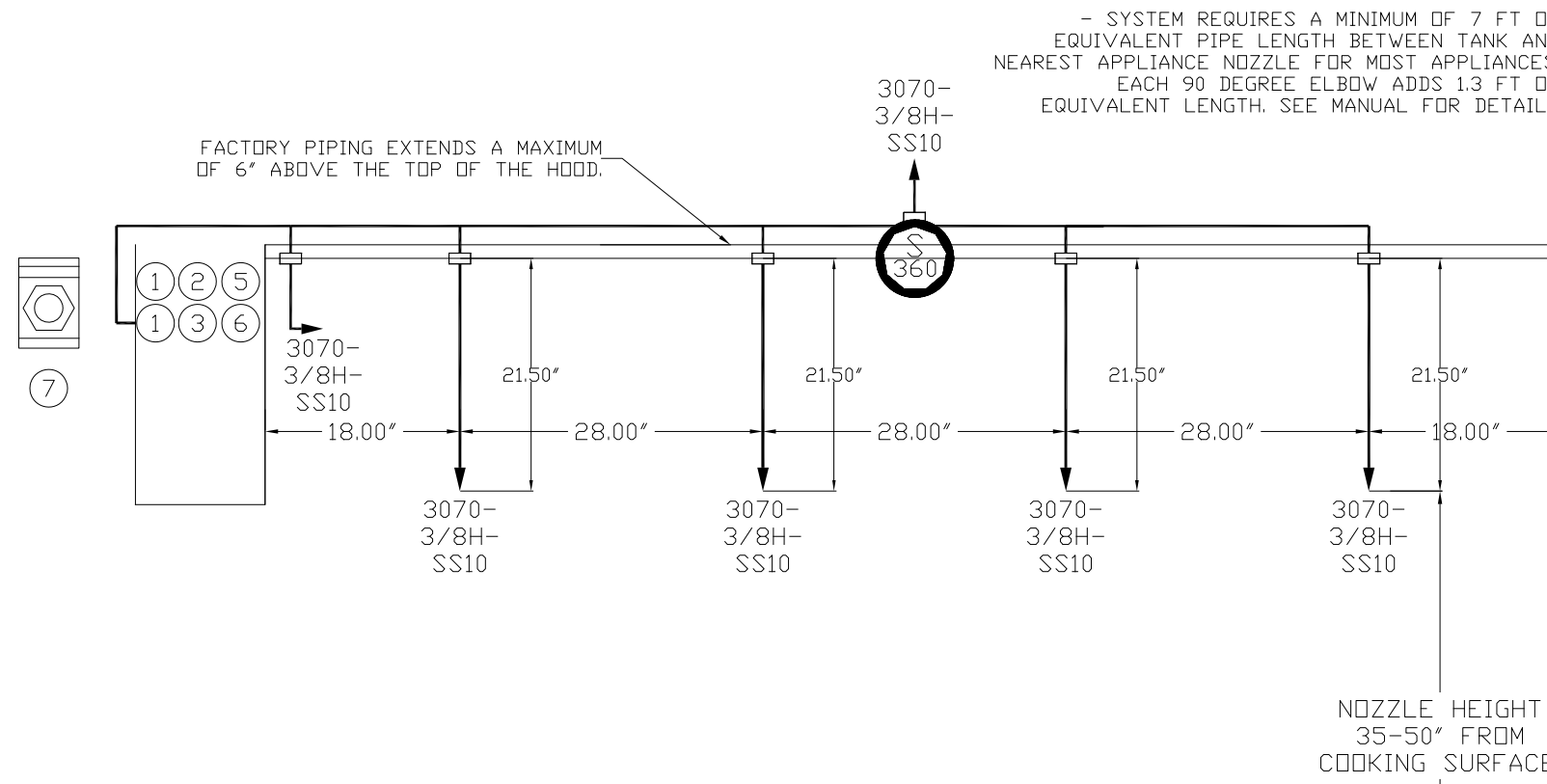


JOB #: 5109685.
 JOB NAME: ASHLAND CITY C-STORE.
 SYSTEM SIZE: TANK-SP-2 TOTAL FP REQUIRED: 24.
 HOOD # 1 10' 0.00' LONG x 54' WIDE x 24' HIGH.
 RISER # 1 SIZE: 14" DIA.
 HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.

- NOTES
- FIELD PIPE DROPS AS SHOWN
 - PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY GAS.
 - RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
 - OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION.
 - IF APPLICABLE, EXTENDED PRE-PIPED DROPS ARE SHIPPED LOOSE.
 - FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.

- SYSTEM REQUIRES A MINIMUM OF 7 FT OF EQUIVALENT PIPE LENGTH BETWEEN TANK AND NEAREST APPLIANCE NOZZLE FOR MOST APPLIANCES. EACH 90 DEGREE ELBOW ADDS 1.3 FT OF EQUIVALENT LENGTH. SEE MANUAL FOR DETAILS.
- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.
- THIS FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.

- HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH.
- MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.



LEGEND - FIRE CABINET TANK SYSTEM

- 1 4 GALLON TANK.
- 2 PRIMARY ACTUATOR RELEASE.
- 3 SECONDARY ACTUATOR RELEASE.
- 4 PRESSURE SUPERVISION SWITCH.
- 5 PRIMARY HOSE ASSEMBLY.
- 6 SECONDARY HOSE ASSEMBLY.
- 7 REMOTE MANUAL ACTUATION DEVICE.

TANK OVERLAPPING
 PROJECTED
 HIGH PROXIMITY
 108.00" L X 30.00" D

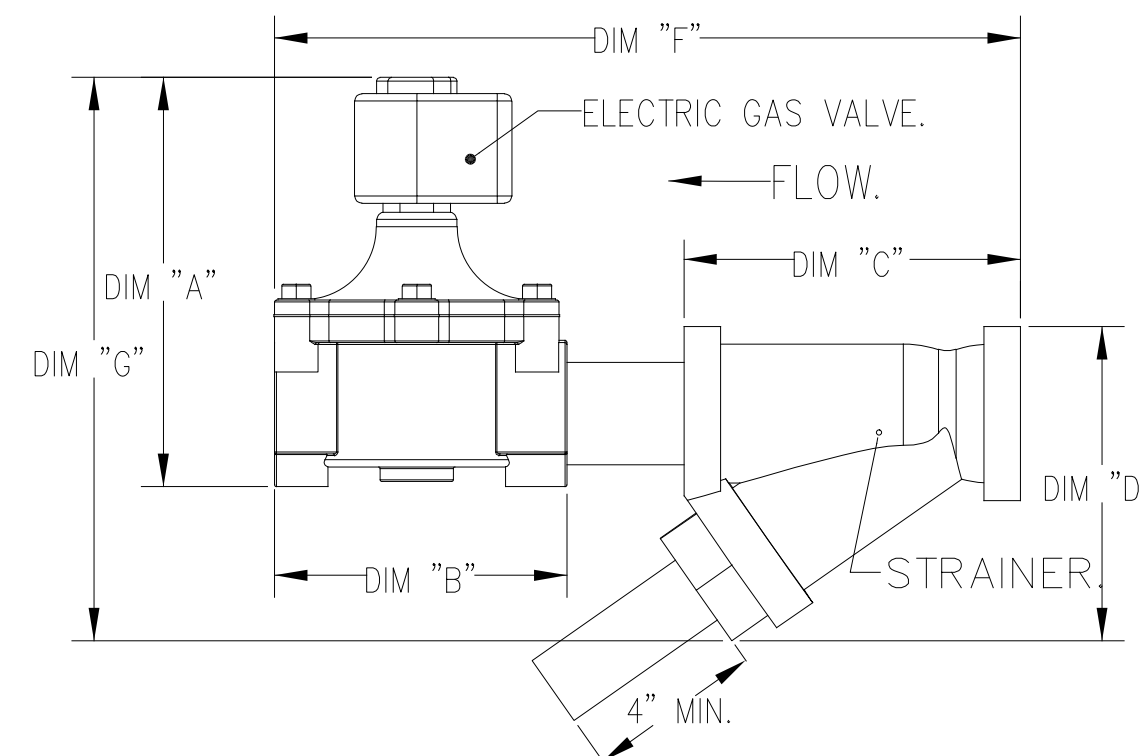
GAS VALVES AND STRAINERS																
GAS VALVE SIZING							GAS VALVE DIMENSIONS				INSTALLATION		PART NUMBERS			
TYPE	SIZE	VOLTAGE	MIN. INLET PRESSURE	MAX. INLET PRESSURE	FLOW AT 1 IN.W.C. DROP NATURAL GAS	FLOW AT 1 IN.W.C. DROP PROPANE	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"	DIM "G"	MOUNTING ORIENTATION	GAS VALVE PART NUMBER	STRAINER PART NUMBER	GAS VALVE/STRAINER KIT
ELECTRICAL	2"	120 VAC	0 PSI (0 IN.W.C.)	5 PSI (138 IN.W.C.)	2,940,500 BTU/HR	1,908,048 BTU/HR	7-5/8"	6-3/8"	7-1/4"	7-13-16"	15-5/8"	13-15/16"	HORIZONTAL/ VERTICAL	8214280	4417K68	(SC)EJVA2

ALL GAS VALVES/STRAINERS

PROPER CLEARANCE MUST BE PROVIDED IN ORDER TO SERVICE THE STRAINERS A MINIMUM OF 4" CLEARANCE DISTANCE MUST BE PROVIDED AT THE BASE OF THE STRAINER CUSTOMER MUST VERIFY BTU CONSUMPTION AS WELL AS PRESSURE RATING SPECIFIC GRAVITY OF NATURAL GAS = 0.64, SPECIFIC GRAVITY OF LP = 1.52.

CALCULATIONS

TO CALCULATE GAS FLOW FOR OTHER THAN 1 IN.W.C. PRESSURE DROP
 NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP) X NEW PRESSURE DROP^{0.5}
 TO CALCULATE GAS FLOW FOR OTHER THAN 0.64 SPECIFIC GRAVITY
 NEW BTU/HR = (BTU/HR AT 0.64) X (0.64 / NEW SPECIFIC GRAVITY)^{0.5}

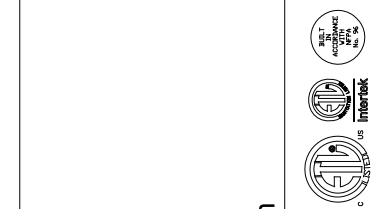


CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted
 Approved with NO Exception Taken
 Revise and Resubmit
 SIGNATURE _____
 Your Title _____ Date _____

FOR QUESTIONS, CALL THE
 Nashville Office
 REGION 44
 PHONE: (615) 599-8300
 EMAIL: reg44@econair.com

REVISIONS	
DESCRIPTION	DATE



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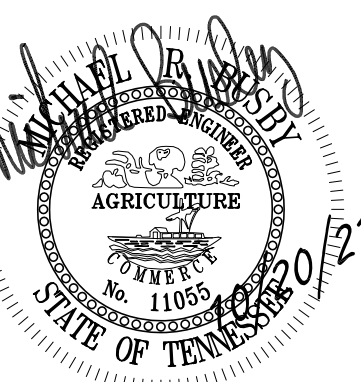
Ashland City C-Store
 ASHLAND CITY, TN, 37015

DATE: 9/28/2021
DWG.#: FS-2-5109685
DRAWN BY: DDR-44
SCALE: 3/4" = 1'-0"
FIRE SYSTEM
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DRAWN BY: WIN

MECHANICAL HOOD SPECIFICATIONS

M-205

TANK FIRE SUPPRESSION SYSTEM SPECIFICATIONS
TAG: TANK Fire Suppression

PART 1 - GENERAL

1.1 SUMMARY

- A. TANK Fire Suppression is a pre-engineered, stored-pressure wet chemical solution extinguishing system.

1.2 SUBMITTALS

- A. The manufacturer assumes no liability for the use or results of use from this document. Specifications are to be reviewed by the engineer to confirm the requirements of the project and meet Federal, State, and Local codes.
- B. As the manufacturer continues product development, it reserves the right to change design and specifications without notice.

1.3 QUALITY ASSURANCE

- A. TANK Fire Suppression System shall be UL & ULC listed in accordance with UL300, UL1254, ULCCRD-C12546.
- B. Microprocessor-based control board shall be ETL Listed to UL Standard 864 and CAN/ ULC-S527-11.
- C. TANK Fire Suppression System intended for installation and for use in accordance with the National Fire Protection Association Standards:
1. Wet Chemical Extinguishing Systems, NFPA 17A
 2. National Electrical Code, NFPA 70
 3. National Fire Alarm & Signaling Code, NFPA 72
- D. New York City and FDNY approved under CDA# 5870.
- E. California State Fire Marshal (CFSM), Listing No. 7085-2199:0501.

1.4 Warranty

- A. All units shall be provided with the following standard warranties:
1. TANK Fire Suppression System is warranted to be free from defects in materials and workmanship, under normal use and service, for a period of 60-months from date of shipment.
- B. Warranty does not cover consumable products such as batteries, nitrogen, and nozzle caps.
- C. The manufacturer shall not be liable for incidental and consequential losses and damages potentially attributable to malfunctioning equipment. Should any part of the equipment prove to be defective in material or workmanship within the 60-month warranty period, upon examination by the manufacturer, such part will be repaired or replaced by manufacturer at no charge. The buyer shall pay all labor costs incurred in connection with such repair or replacement. Equipment shall not be returned without manufacturer's prior authorization, and all returned equipment shall be shipped by the buyer, freight prepaid to a destination determined by the manufacturer.
- D. Refer to Manufacturer's Operation, Installation, and Maintenance (OIM) Manual for detailed descriptions of what is/is not covered and contact information for warranty claims.

PART 2 - PRODUCTS

2.1 GENERAL

- A. A pre-engineered, fixed pipe, automatic wet chemical agent fire suppression system for protection of all hazard areas associated with cooking operations, including exhaust hoods, plenums, ductwork, and cooking appliances.

2.2 COMPONENTS

- A. Exhaust hood fire system components to be factory installed.
- B. Cylinder and Valve Assembly

1. The cylinders shall have a tin-nickel alloy plated brass valve with pressure gauge.
2. Wet chemical agent shall be contained in one or more stored pressure DOT/TC rated steel cylinder and valve assemblies.
3. Each cylinder is factory-filled with liquid fire suppressant and pressurized to 200 PSIG at 70°F.

C. Distribution Nozzles

1. Nozzles shall be located to protect the exhaust ducts, plenums, and all cooking appliances requiring protection.
2. All nozzles shall be equipped with strainers to prevent foreign matter in the agent distribution piping or tubing from clogging the nozzle orifice. All nozzles shall be equipped with foil seals to prevent entry of grease and foreign matter into the nozzles and piping. The foil seals are to be ruptured by pressure at system discharge.
3. All nozzles shall incorporate a ring identification system to easily identify nozzle types. Rings are to be machined into the nozzle body by the manufacturer.

D. Distribution System

1. The distribution system shall consist of Schedule 40 black iron, chrome-plated or stainless-steel pipe and fittings. All exposed piping and fittings must be chrome-plated or stainless steel.
2. Fittings shall be minimum class 150. Galvanized fittings shall not be used.

E. Suppression System

1. The system control equipment shall be capable of all functions associated with automatically and manually discharging the wet chemical agent from all cylinder and valve assemblies, including automatic shutdown of the heat source or fuel and electrical power to all protected areas upon system discharge.
2. Liquid Fire Suppressant shall be Aqueous Potassium Carbonate (APC).
3. All mechanical components of the actuator kit shall be enclosed.
4. The actuator kit shall be capable of automatic or manual activation means.
5. Supervisory Pressure Switch added to monitor operating system pressure.
6. For manual activation, an electrically operated manual release shall be used to actuate the system manually.
7. For automatic activation, the system will be activated by a Firestat (heat) detector.

F. Electrical

1. Electrical Division to provide shunt trip breakers at main power panel, or disconnects, as designated by the Electrical Engineer; interconnection provided at hood control panel for the signal to shut down all electricity in and under the exhaust hood. Shunt trips/disconnects to accomplish shut off of electricity in the event of fire system activation by others.
2. Printed circuit board with microprocessor-based controller that provides all the necessary monitoring, timing, and supervision functions required for the reliable operation of the fire system.
3. Independent supervised loops incorporate redundancy and fault detection.
4. Real-time cloud-based monitoring connection provided with system by ownership.
5. Primary power supply, with battery backup for power loss.
6. All wiring must be in accordance to NFPA 70 and the Authority Having Jurisdiction (AHJ).
7. Electric gas valve provided for equipment below exhaust hood. Coordinate size and installation with Plumbing Division.
8. All wiring is to be in accordance with the applicable manufacturer's instructions for the fire alarm control panel, gas shut-off valve, manual reset relay, and contractor supplied shut-off devices.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas and conditions under which the system is installed. Do not proceed with work until unsatisfactory conditions have been corrected in manner acceptable to installer.

3.2 APPLICATION

- A. Wet chemical-based fire suppression system for use in commercial kitchens. It can be mounted in the integral cabinet located at the end of the hood or offered as a wall mount package.

3.3 INSTALLATION

- A. As part of this item, provide wall mounted type K handheld portable fire extinguisher, placard, and mounting bracket as required in the immediate vicinity of each cooking area, per NFPA-96 and NFPA-10. Additional fire extinguishers as required in the kitchen area are to be specified by the Architect and provided by the General Contractor.
- B. Install in accordance with manufacturer's instructions, drawings, written specifications, manufacturer's installation manual, and all applicable building codes.
- C. Six-month and twelve-month inspections, servicing, and replacement of components as per NFPA 96 to be provided by the General Contractor or Owner.

REVISIONS	
DESCRIPTION	DATE



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www.econair.com

Nashville Office
PO Box 1606, Spring Hill, TN, 37174 PHONE: (615) 599-8300 FAX: (615) 227-5960 EMAIL: reg44@econair.com

Ashland City C-Store
ASHLAND CITY, TN, 37015

DATE: 9/28/2021
DWG.#: FS-3-5109685
DRAWN BY: DDR-44
SCALE: 3/4" = 1'-0"
FIRE SYSTEM
SHEET NO. 6

CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted

Approved with NO Exception Taken

Revise and Resubmit

SIGNATURE _____

Your Title _____ Date _____

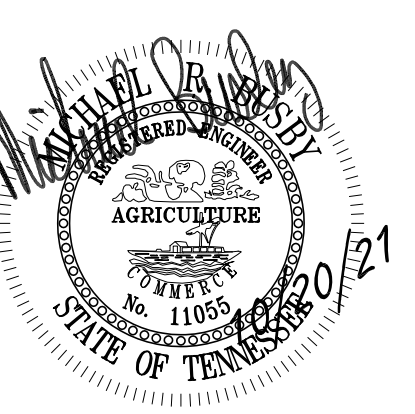
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MECHANICAL HOOD SPECIFICATIONS

M-206

CONSULTANT

Win ENGINEERING
2 International Plaza Suite 410 Nashville, TN 37217
Phone: 615-891-4565 | Fax: 615-250-0580
Project #04321

EXHAUST FAN INFORMATION - JOB#5109685

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SDNES
1	KEF1	1	EADU180H	ECON-AIR	2000	1.200	1076	DDP,PREMIUM	1.500	0.8370	3	208	6.6	462 FPM	182	12.6

MUA FAN INFORMATION - JOB#5109685

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA	MDCP	WEIGHT (LBS)	SONES
2	MAU1	1	EA1-D.500-1SD	15MF-1-MDD	A1-D.500	1000	1600	0.500	1772	DDP,PREMIUM	1.500	0.8580	3	208	4.4	5.5A	15A	478	16.7

GAS FIRED MAKE-UP AIR UNIT(S)

FAN UNIT NO	TAG	INPUT BTUs	OUTPUT BTUs	TEMP RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE	BURNER EFFICIENCY(%)
2	MAU1	103779	95477	57°F	7 IN. W.C. - 14 IN. W.C.	NATURAL	92

FAN OPTIONS

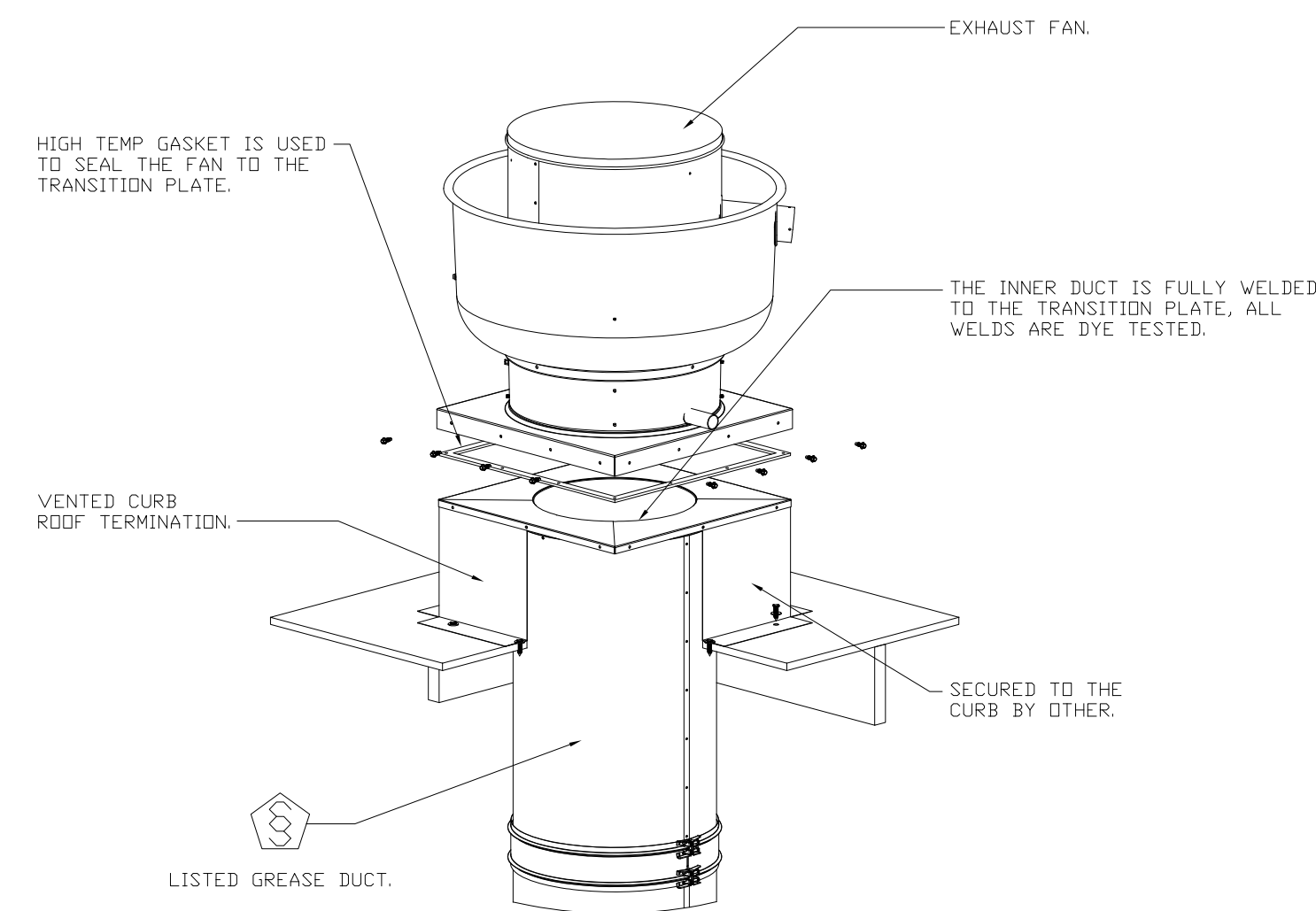
FAN UNIT NO	TAG	QTY	DESCRIPTION
1	KEF1	1	GREASE BOX.
		1	EXHAUST FAN HEAT BAFFLE.
		1	FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS.
2	MAU1	1	2 YEAR PARTS WARRANTY.
		1	INLET PRESSURE GAUGE, 0-35".
		1	MANIFOLD PRESSURE GAUGE, -5 TO 15" W.C.
		1	MOTORIZED BACKDRAFT DAMPER FOR A1-D HOUSING. MEETS AMCA CLASS 1A RATING.
		1	SEPARATE 120V WIRING PACKAGE (REQUIRED AND USED ONLY FOR DCV OR PREWIRE WITH VFD) - THREE PHASE ONLY.
1	2 YEAR PARTS WARRANTY.		

FAN ACCESSORIES

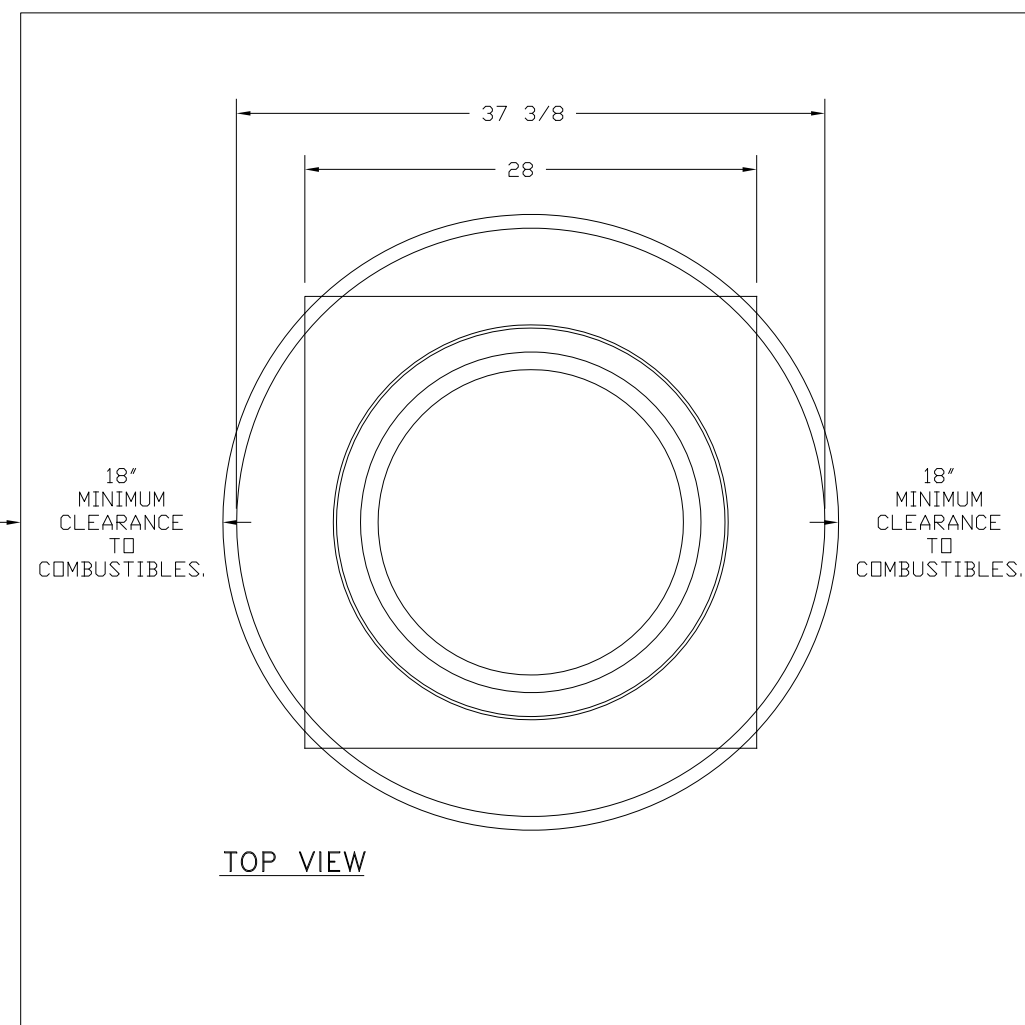
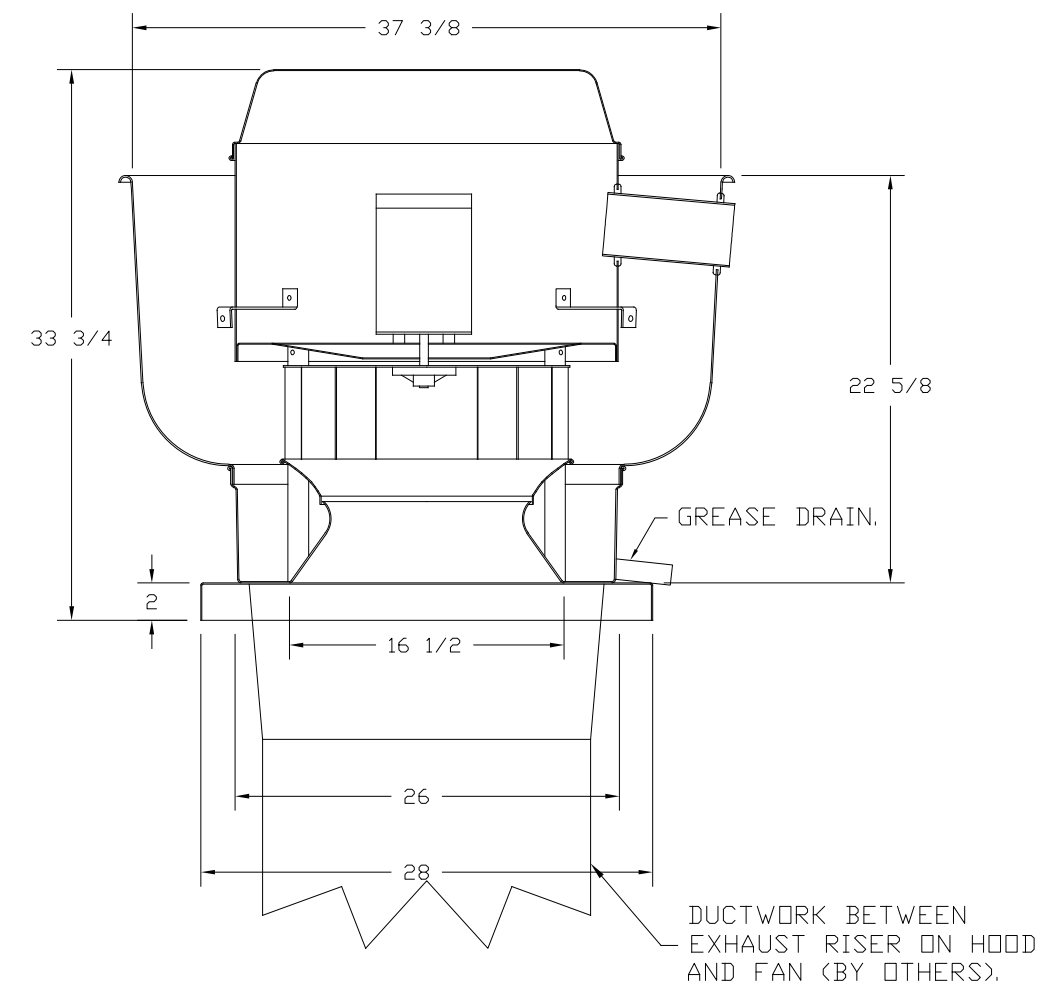
FAN UNIT NO	TAG	EXHAUST				SUPPLY		
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	KEF1	YES					YES	
2	MAU1							

CURB ASSEMBLIES

NO	DN FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	KEF1	34 LBS	CURB	26.500"W X 26.500"L X 26.000"H 4.000:12.000 PITCH ALONG LENGTH, RIGHT VENTED
2	# 2	MAU1	65 LBS	CURB	21.000"W X 71.000"L X 20.000"H 4.000:12.000 PITCH ALONG WIDTH, RIGHT INSULATED.



FAN #1 EADU180H - EXHAUST FAN (KEF1)



FEATURES:

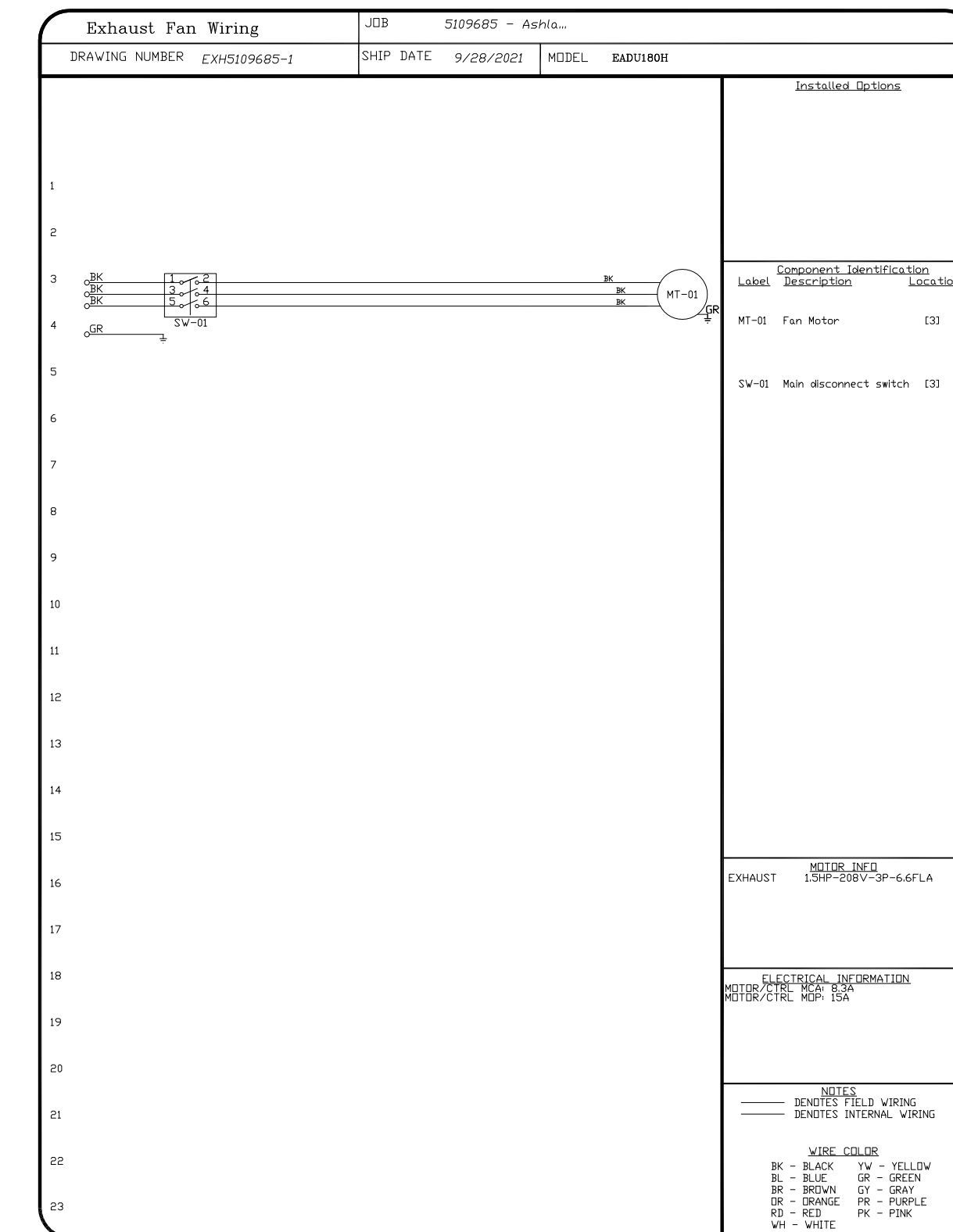
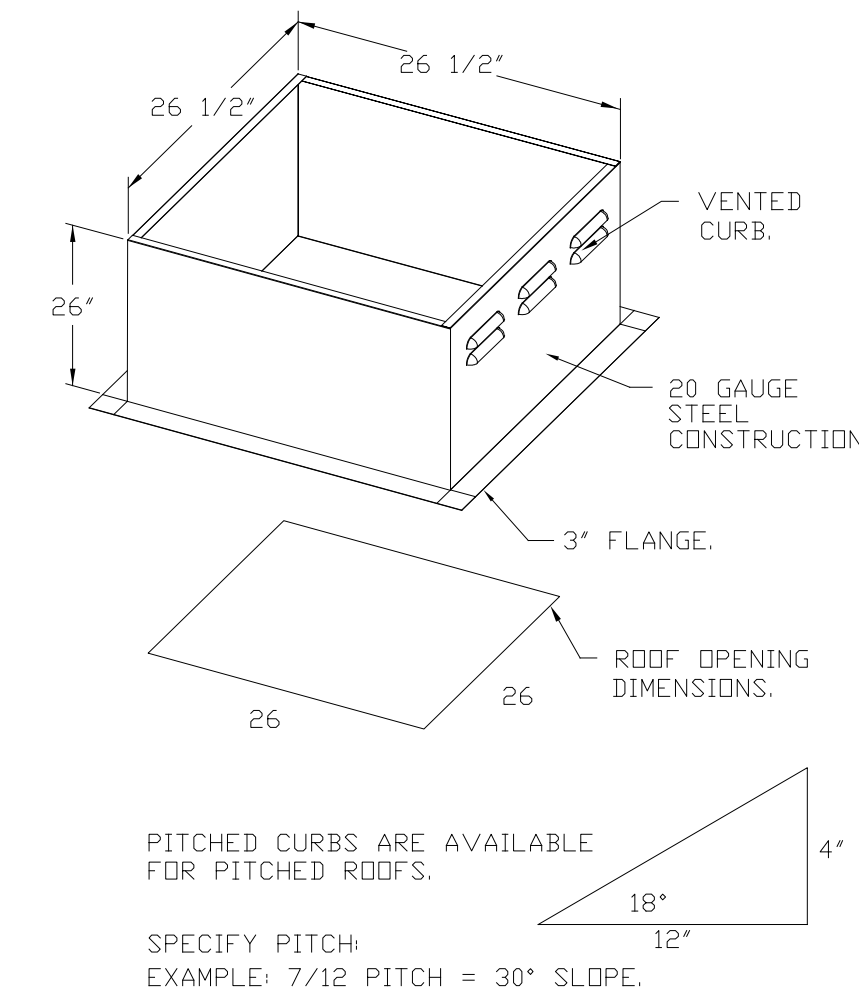
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

- GREASE BDX.
- EXHAUST FAN HEAT BAFFLE.
- FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS.
- 2 YEAR PARTS WARRANTY.



REVISIONS

NO.	DESCRIPTION	DATE

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DATE: 9/28/2021
DWG.#: FAN-1-5109685
DRAWN BY: DDR-44
SCALE: 3/4" = 1'-0"
FAN

SHEET NO.
7

CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted

Approved with NO Exception Taken

Revise and Resubmit

SIGNATURE _____

Your Title _____ Date _____

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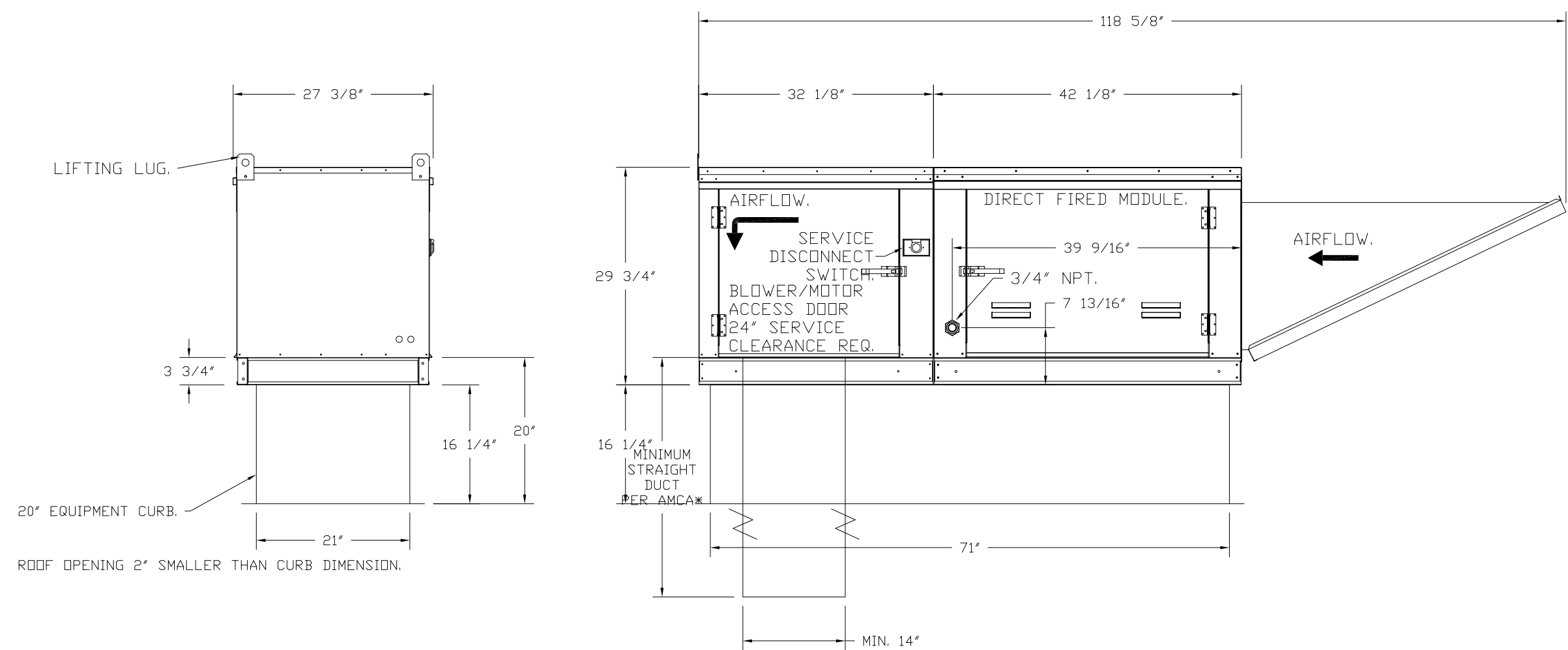
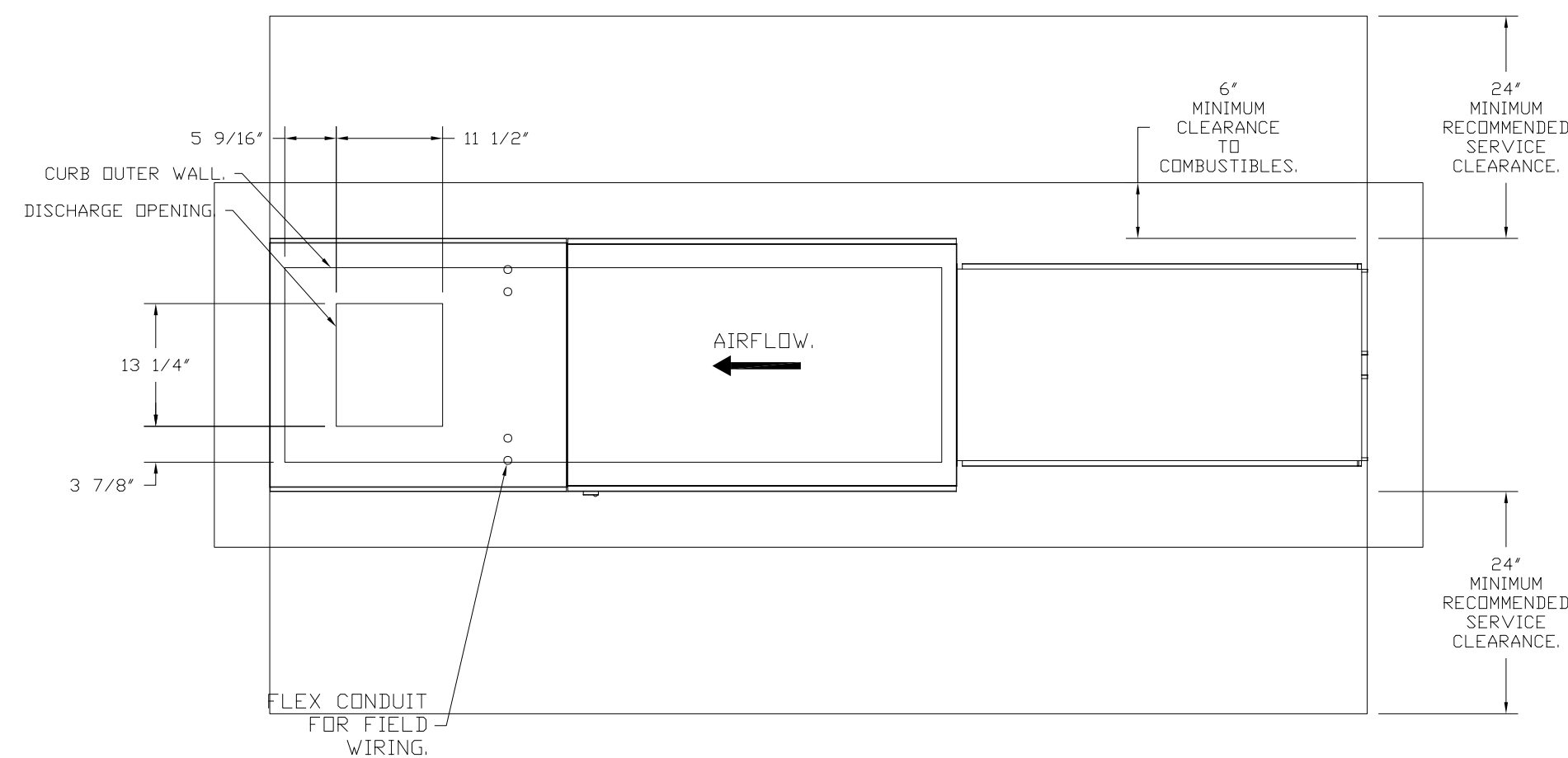
M-207
MECHANICAL HOOD SPECIFICATIONS
ITEM # 4

- FAN #2 EA1-D500-1SD - HEATER (MAUD)
- DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 15" MIXED FLOW DIRECT DRIVE FAN.
 - INTAKE HOOD WITH EZ FILTERS.
 - DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT.
 - GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE.
 - GAS PRESSURE GAUGE, -5 TO +15 INCHES WC, 2.5" DIAMETER, 1/4" THREAD SIZE.
 - MOTORIZED BACK DRAFT DAMPER 16" X 18" FOR SIZE 1 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE, TPBIOS ACTUATOR INCLUDED.
 - SEPARATE 120VAC WIRING PACKAGE FOR MAKE-UP AIR UNITS. OPTION MUST BE SELECTED WHEN MOUNTING VFD IN STANDARD PANEL OR WITH DCV PACKAGE. PROVIDES SEPARATE 120VAC INPUT TO SUPPLY FAN. THIS 120V SIGNAL MUST BE RUN BY ELECTRICIAN FROM DCV TO MUA SWITCH.
 - HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER SECTION).
 - 2 YEAR PARTS WARRANTY.

*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 14" X 14".

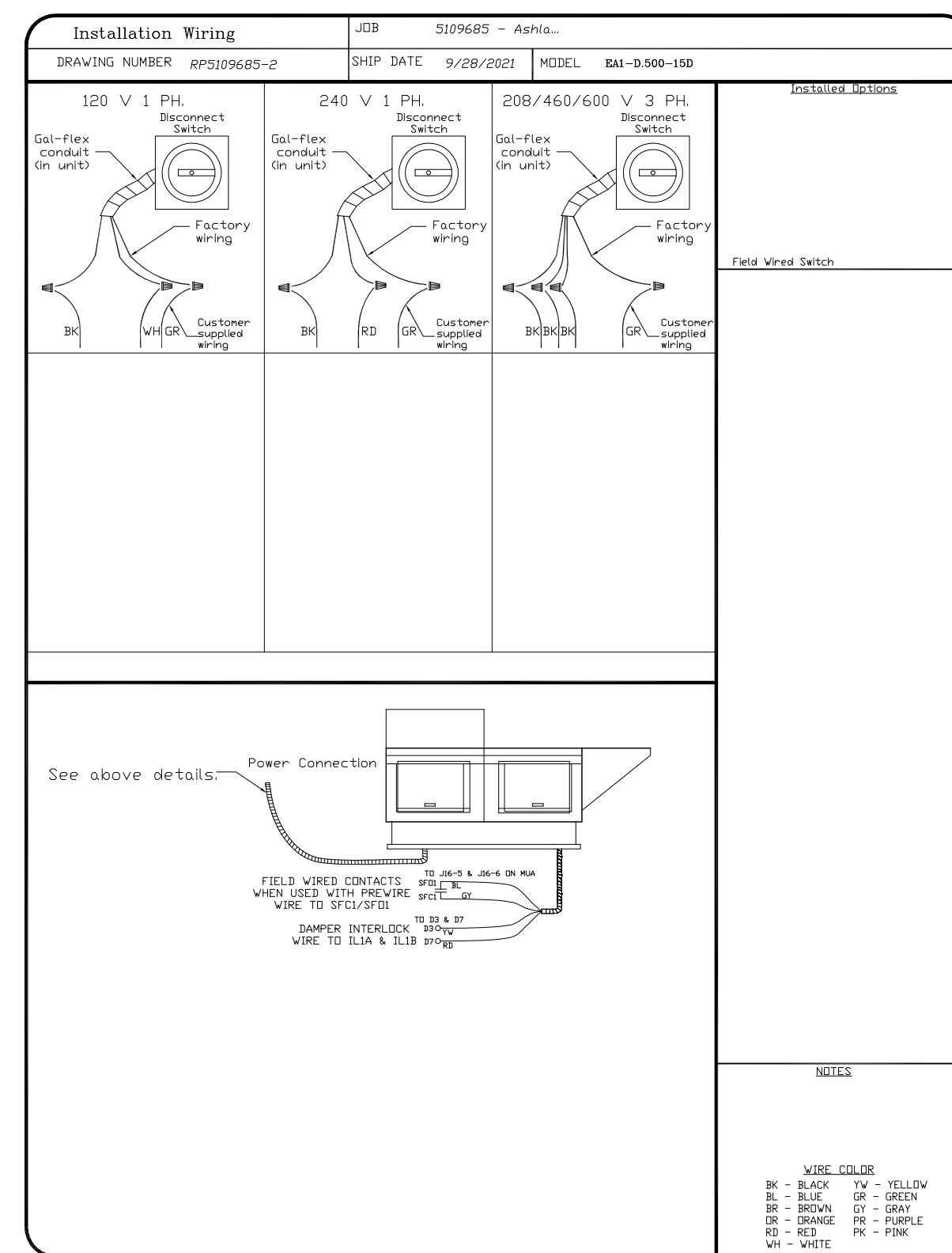
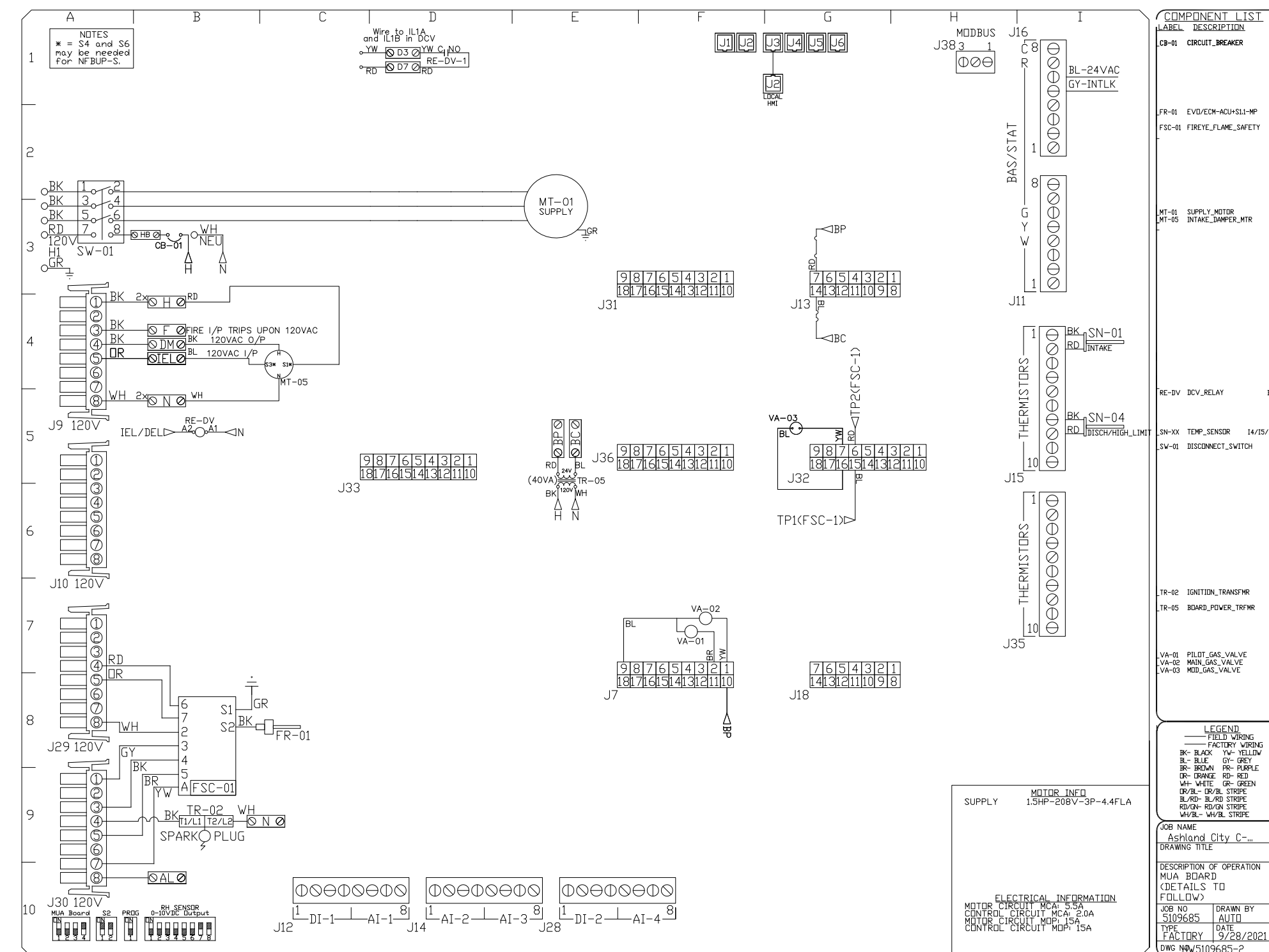
SUPPLY SIDE HEATER INFORMATION:

WINTER TEMPERATURE = 18°F. TEMP. RISE = 57°F.
 BTUS CALCULATED OFF ACTUAL AIR DENSITY.
 OUTPUT BTUS AT ALTITUDE OF 0.0 FT. = 97433.
 INPUT BTUS AT ALTITUDE OF 0.0 FT. = 105905.
 OUTPUT BTUS AT ALTITUDE OF 560 FT. = 95477.
 INPUT BTUS AT ALTITUDE OF 560 FT. = 103779.



DIRECT FIRED (DF) PROFILE PLATE ASSEMBLY

DIRECT FIRED PROFILE PLATE SPECIFICATIONS:
DESCRIPTION:
 DIRECT FIRED BURNERS SHALL HAVE PATENTED (US PATENT NO. US6292938D), SELF-ADJUSTING PROFILE PLATES DESIGNED TO ENSURE PROPER AIR VELOCITY AND PRESSURE DROP ACROSS THE BURNER. PROFILE PLATES SHALL ALLOW BURNERS TO ACHIEVE CLEAN COMBUSTION BY LIMITING BY-PRODUCT LEVELS TO A MAXIMUM OF 50PPM OF CARBON MONOXIDE (CO), AND 0.2PPM OF NITROGEN DIOXIDE (NO2). DIRECT FIRED UNITS SHALL BE CONFIGURED WITH THE BLOWER INDICED DOWNSTREAM OF THE BURNER. THIS ARRANGEMENT WILL ENSURE A CONSISTENT AIRFLOW, REGARDLESS OF INLET AIR TEMPERATURE.
APPLICATION:
 SPRING-LOADED BURNER PROFILE PLATES ARE ENGINEERED TO AUTOMATICALLY REACT TO THE MOMENTUM OF A FRESH AIR STREAM, WITHOUT THE NEED FOR ANY MOTORS OR ACTUATORS TO MECHANICALLY ADJUST THEM WITH THIS FEATURE, ALL OF UNITS ARE DESIGNED FOR DEMAND CONTROL VENTILATION (DCV) REQUIREMENTS.
CERTIFICATIONS:
 ALL PROFILE PLATE ASSEMBLIES SHALL BE INCLUDED IN THE DF UNIT'S C.T.L LISTING AND COMPLY WITH COMBINED SAFETY STANDARDS ANSI Z83.4 AND CSA 3.7 (NON-RECIRCULATING OF HEATERS) AND ANSI Z83.18 (RECIRCULATING OF HEATERS).
GENERAL CONSTRUCTION:
 -PROFILE PLATES SHALL BE FORMED FROM 600 GALVANIZED STEEL.
 -PROFILE PLATES SHALL VARY IN SIZE PER UNIT.
 -PROFILE PLATES SHALL BE MOUNTED ALONG THE SAME PLANE AS THE DISCHARGE OF THE BURNER.
 -SECTION SHALL INCORPORATE PROPERLY TORQUED, PERMANENTLY MOUNTED SPRING HINGES.
 -SPRING HINGES SHALL BE MADE FROM PLATED STEEL.



CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted

Approved with NO Exception Taken

Revise and Resubmit

SIGNATURE _____

Your Title _____ Date _____

FOR QUESTIONS, CALL THE
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 EMAIL: reg44@econair.com

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 Nashville Office
 www.econair.com
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SHEET NO. 8

CONSULTANT

Win ENGINEERING
 2 International Plaza Suite 410 Nashville, TN 37217
 Phone: 615-891-4565 | Fax: 615-250-0580
 Project #04321

ASHLAND CITY C-STORE

MERIDIAN ARCHITECTURE

nashville, tennessee
 e: office@meridiantn.com
 t: 615.590.2236
 www.meridiantn.com

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NO.	DESCRIPTION	DATE

DATE OF ISSUE: 10.20.2021
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PROJECT PHASE: CD
DRAWN BY: WIN

MECHANICAL HOOD SPECIFICATIONS

M-208

ITEM # 4

SECTION 23 74 33

FACTORY FABRICATED PACKAGED HEATING AND COOLING MAKE-UP AIR UNITS SPECIFICATIONS

TAG: Modular Direct-Fired Heater

PART 1 - GENERAL

1.1 SUMMARY

A. This section includes modular packaged heating and cooling units capable of supplying up to 100 percent outdoor air.

1.2 SUBMITTALS

A. The manufacturer assumes no liability for the use or results of use of this document. This specification is to be reviewed by the engineer to confirm requirements of the project and building codes are met.

B. As the manufacturer continues product development, it reserves the right to change design and specifications without notice.

1.3 QUALITY ASSURANCE

A. ETL-Listed to the American National Standard/CSA Standard for Gas Unit Heaters And Gas-Fired Duct Furnaces ANSI Z83.4, CSA 3.7.

B. The Safety Control Board is ETL-Listed to standards UL 60730-2-9, UL 60730-1) CSA E60730-1, and CSA E60730-2-9.

1.4 WARRANTY

A. All units are provided with the following 2-year standard warranty.

B. This warranty shall not apply if:

- 1. The equipment is not installed by a qualified installer per the manufacturer's installation instructions shipped with the product.
2. The equipment is not installed in accordance with Federal, State, Local codes and regulations.
3. The equipment is misused, neglected, or not maintained per the manufacturer's maintenance instructions.
4. The equipment is not operated within its published capacity.
5. The invoice is not paid within the terms of the sales agreement.

C. The manufacturer shall not be liable for incidental and consequential losses and damages potentially attributable to malfunctioning equipment. Should any part of the equipment prove to be defective in material or workmanship within the 2-year warranty period, upon examination by the manufacturer, such part will be repaired or replaced by the manufacturer at no charge. The buyer shall pay all labor costs incurred in connection with such repair or replacement. Equipment shall not be returned without manufacturer's prior authorization, and all returned equipment shall be shipped by the buyer, freight prepaid to a destination determined by the manufacturer.

PART 2 - PRODUCTS

2.1 GENERAL ASSEMBLY

A. Unit(s) shall be factory assembled, tested and shipped as a complete packaged assembly, for indoor or outdoor mounting, consisting of the following specifications, deliver all capacities scheduled, and conform to design indicated herein. Alternate layouts or dimensional changes will not be accepted.

2.2 CABINET

A. Unit(s) shall be constructed of minimum 20-gauge G-90 galvanized steel riveted together via structural pop-rivets. All metal shall be CNC bent for precise assembly.

- 1. Base Construction: The base shall be constructed of galvanized steel for improved rigidity. Base shall be structurally reinforced to accommodate the blower assembly and burner.
2. Rigging Provisions: The unit shall have a structural base constructed of minimum 14ga. G-90 galvanized steel, and include lifting points on all four sides.
3. Roof Construction: Roof shall be pitched to allow for proper drainage.
4. Exterior Wall Construction: All exterior walls shall consist of insulated galvanized steel construction.
5. Service Access Doors: All door jams shall be gasketed around their perimeter. Doors may be mounted via spring actuated, stainless steel hinges with stainless steel rivets, and self-compressing stainless steel pad lockable latches or through removable sliding panels.
6. Each compartment shall have removable access panels to allow for ease of service and maintainability. Electrical cabinet doors shall be outfitted with schematic/manual pouches formed into the door, along with wiring diagram attached to the interior of the door from the factory.

B. Entire interior and exterior casing shall be constructed of minimum 20-gauge G-90 galvanized steel with no painting, and shall have undergone a salt spray corrosion test as per ASTM B 117.

C. An observation port shall be located on the exterior of the unit for observation of the main flame and pilot flame. All controls, gas valves, modulating controls and electrical components shall be mounted within the burner vestibule. The burner vestibule shall be an integral part of the unit and not extend outside the exterior casing of the unit and not exposed to the main air stream.

2.3 AIRFLOW CONFIGURATIONS

A. Unit shall be configurable for down (vertical) discharge through unit.
B. Unit intake airflow configuration shall be through use of a fresh/outdoor damper.

1. Damper: Manufacturer shall provide and install on unit, when possible, a two-position, motor-operated damper with internal end switch to energize the blower-starter circuit, when damper is 80%

open. Blades shall be a maximum of 6' wide 16-gauge G-90 galvanized steel and shall be made to guarantee the absence of noticeable vibration at design air velocities. Damper blades are to be mounted on Friction-free synthetic bearings. Damper edges shall have PVC coated polyester fabric mechanically locked into blade edge. Jamb seals used are flexible metal, compression type. Damper shall exceed AMCA Class IA standard for low leakage. Damper assembly shall be a single assembly, and outfitted with an integral bird screen and louver/gutter system to divert any drainage through the base of the unit -intake air hood not required.

- 2. Discharge Diffuser: Shall be constructed of G-90 galvanized steel with horizontal and vertical blades capable of Four-way diffusion.
3. Actuator: A single direct drive damper actuator shall be used with spring return to ensure that the outdoor air section opens when not powered.

2.4 SUPPLY AIR BLOWER AND MOTOR

A. All supply fans shall be:

1. Direct Drive: Blower assembly shall consist of a centrifugal backward inclined, non-overloading wheel secured directly to a heavy-duty, ball bearing type motor via two set screws. The motor and wheel assembly shall be mounted to a heavy gauge galvanized steel frame. The motor shall be controlled by a variable frequency drive, allowing for variable airflow without the need of belts and pulleys.

B. Blower Motor: Motor shall be a premium efficiency motor available as:

1. Open Drip Proof (ODP) motor driven by a Variable Frequency Drive.

C. Fans to be selected at or near efficiency peak. Check fan curves provided with job.

D. Blower and motor assembly shall be dynamically balanced. The entire blower and motor assembly shall be mounted on rubber vibration isolators. Wheels balanced as per AMCA 204-96; Balance Quality and Vibration Levels for fans.

2.5 SHAFTS AND BEARINGS

A. Shafts shall be precision ground and polished. Heavy duty, pre-lubricated bearings designed for, and individually tested, specifically for, use in air handling applications.

2.6 HEATING SYSTEM

A. The gas burner shall be a direct-fired, pull-through type, using natural gas at an inlet-supply pressure to the unit of 7"w.c. minimum natural gas.

B. Burner design shall be capable of using natural gas. Burner ignition shall be of the direct-spark design with remote flame sensing at the pilot assembly to detect the presence of flame in the burner.

C. Direct-sparking sequence shall last through the complete duration of the trial for ignition period for guaranteed light-off. Each burner ignition module shall have LED indicators for troubleshooting and a set of exposed prongs for testing flame indication signal.

D. Unit should include self-adjusting burner profile plates, which ensure proper air velocity and pressure drop across the burner for clean combustion. Spring-loaded profile plates should react to the momentum of the fresh air stream. No motors or actuators are needed to drive them, nor should they need to be manually set to a specific position. Units should be capable of variable air volume applications.

E. Each furnace shall have:

- 1. The burner shall have non-clogging, stainless steel combustion baffles attached to a ductile aluminum gas-supply section with no moving parts to wear out or fail. The burner shall be capable of 92% combustion efficiency with a maximum turndown ratio of up to 30 to 1.
2. Stainless steel Quick Seal Connection for gas connection.
3. Manifold and input gas pressure gauges.
4. Inlet pressure gauge installed on the gas manifold (-0-35"wc).
5. Inlet pressure gauge installed on the gas manifold (-5 to 15"wc).

2.7 FILTERS

A. Provide filters as part of unit. All filters shall be furnished and installed to meet the performance requirements set forth in the schedule and as specified under another section of this work.

B. The filters shall be (2") thick, aluminum mesh coated with super-filter adhesive, aluminum mesh with polyester foam or pleated throw away. Aluminum-mesh filters shall have aluminum frames with media to be layers of slit and expanded aluminum, varying in pattern to obtain maximum depth loading. Washable 2" filters shall be enclosed in two-piece, die-cut frame with diagonal supports. Frame shall be constructed of heavy-duty beverage board. Filter media is supported on the air leaving side by a metal grid.

C. All filters shall be installed on tracks for easy removal from the unit.

D. Shall be either insulated or non-insulated constructed of G-90 galvanized steel with filters supported by internal slides and with removable access panels.

2.8 ELECTRICAL

A. All controls shall be pre-wired and housed in an insulated electrical cabinet within the unit to protect against risk of condensation.

B. All direct fired and cooling only units shall be provided with single point electrical connection.

C. Unit shall be provided with a door safety switch that de-energizes the supply fan when the door is opened.

D. Units shall be provided with a factory mounted averaging intake air

temperature sensor to allow for accurate intake temperature reading regardless of how the DA/RA dampers are positioned.

E. The electrical cabinet shall be outfitted with the following:

- 1. Color wiring schematics, laminated to the interior wall of the cabinet doors.
2. Factory mounted disconnect with unit bottom knockouts.
3. A LED backlit, LCD Human-Machine Interface (HMI) shall be mounted within the unit's control cabinet to allow for all set points configuration and refrigeration system monitoring at the unit.
4. Up to 4 additional space mounted HMIs available. Additional HMIs shall allow for full programming capabilities and are outfitted with integral temperature and humidity sensors. Additional HMIs shall be capable of being individually averaged for space temperature/humidity readings. All HMIs shall be wired using standard CAT5/6 cables.

2.9 CONTROLS

A. Unit shall be outfitted with a control board to allow for full control of the entire unit.

B. Provide onboard air flow switch located on MUA control board to sense air flow.

C. All unit controls shall be compatible with BACnet and LonWorks based building management systems.

D. All units shall be outfitted with CASLink cloud based monitoring, which monitors every point of operation. Provides configurable automated fault alert e-mails, and remote control capabilities.

E. Integrated cellular module to provide remote connection to monitoring services to view both real time and historical unit operation. Data shall be stored a minimum of 3 years on the cloud. Data sample rate shall be a maximum of 60 seconds.

F. Temperature Control System:

1. Discharge Temp Control (Heating) - Unit modulates the burner flame (current supply in the case of electric heating) to accurately maintain the desired discharge temperature set point and compensate for fluctuations in entering air temperature, air volume and % of OA using heating PID controls.

G. Activation Controls:

- 1. Activate Based on Intake (Heating) - Unit will activate heating when the intake temperature drops below the desired set point.
2. Activate Based on Space (Heating) - Unit will activate heating when the space temperature drops below the desired set point.
3. Activate Based on Both (Heating) - Unit will activate heating when the space AND intake temperature drop below the desired set point.
4. Activate Based on Either (Heating) - Unit will activate heating when the space OR intake temperature drops below the desired set point.
5. Activate Based on Stat (Heating) - Unit will activate heating when the space thermostat sends a 24V signal to W and G on the main control board. Unit will modulate to maintain a constant discharge heat set point.

2.10 ROOF CURBS

A. Unit shall be factory assembled, and constructed of 18GA galvanized steel.

B. Curb shall be fully insulated with 1"acoustical and thermal insulation.

C. Curb shall be factory outfitted with duct support hangers.

2.11 VARIABLE FREQUENCY DRIVES

A. Provide Variable Frequency Drive for speed control on all non-ECM direct drive supply fans.

B. All VFDs shall provide the following inherent protections:
1. Phase protection
2. Brownout protection
3. Overload/Overheat protection
4. Soft starts to protect bearings/hardware
5. Low & High voltage & over-torque protections

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine all areas and conditions under which packaged units are to be installed. Do not proceed with work until unsatisfactory conditions have been corrected in a manner acceptable to Installer.

3.2 INSTALLATION

A. Install units in accordance with manufacturer's instructions, drawings, written specifications, manufacturer's installation manual and all applicable building codes.

3.3 CONNECTIONS

A. Piping installation requirements are specified in other Division 23 Sections. Drawings indicate the general arrangement of piping, fittings, and specialties. Install piping to allow service and maintenance.

B. Duct installation requirements are specified in other Division 23 Sections. Drawings indicate the general arrangement of ducts.

C. Electrical connections conform to applicable requirements in Division 26 Sections.

3.4 SYSTEM START-UP

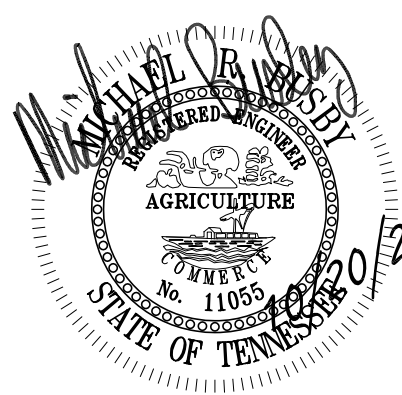
A. System start-up is performed by a factory-trained Service Technician.

REVISIONS table with columns for DATE, DESCRIPTION, and a grid for tracking changes. Includes Econ-Air logo, Nashville Office contact info, and project details like Ashtand City C-Store and ASHLAND CITY, TN, 37015.

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0 Old Hydes Ferry Pike, Ashland City, TN 37015

MERIDIAN ARCHITECTURE



nashville, tennessee
e: office@meridiantn.com
t: 615.990.2236
www.meridiantn.com

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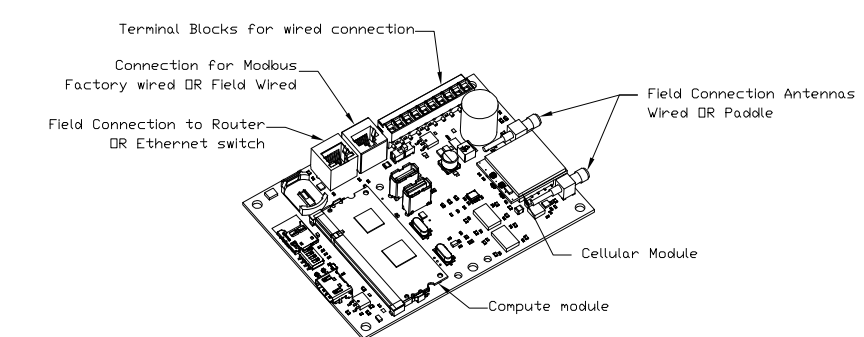
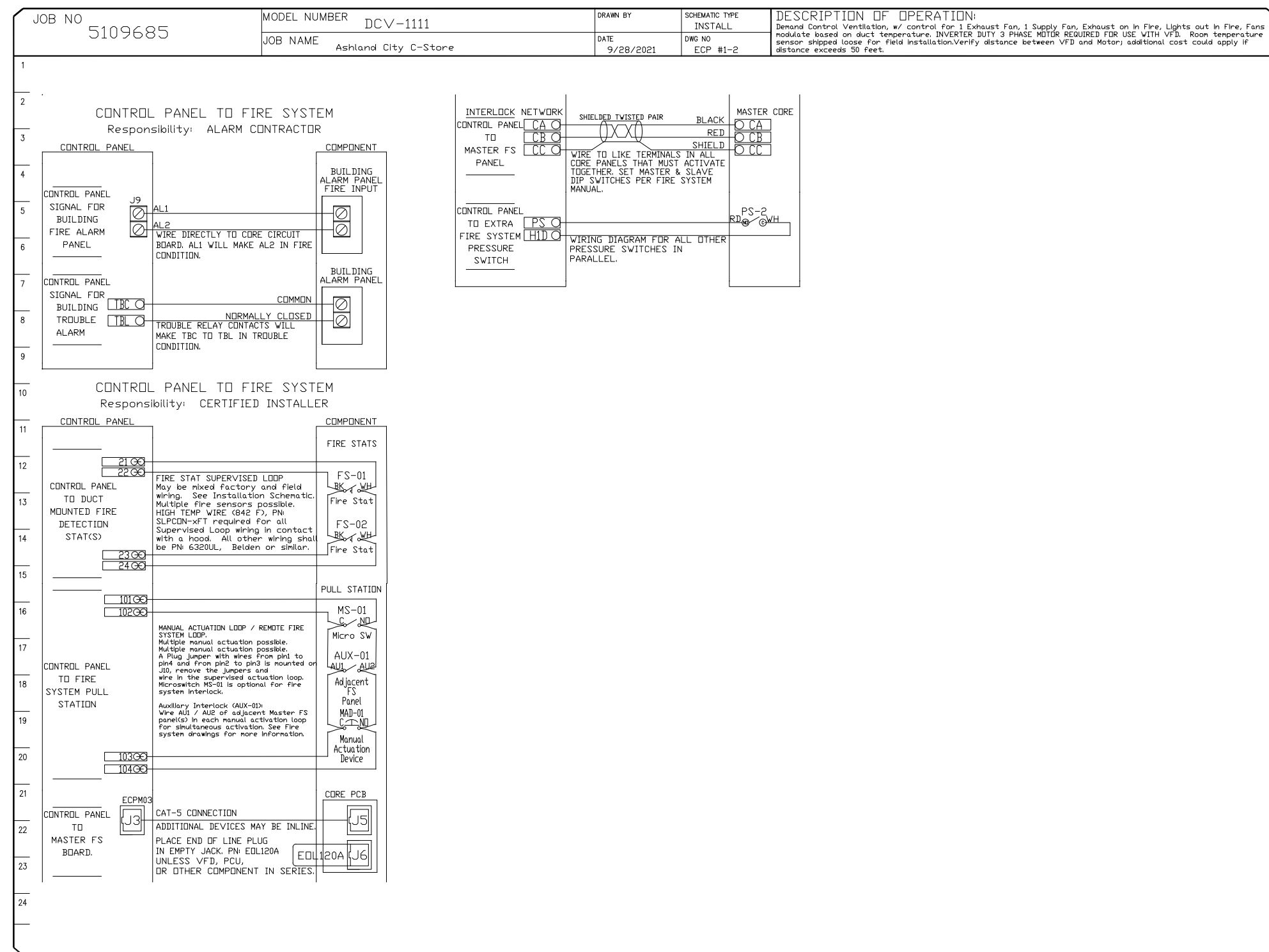
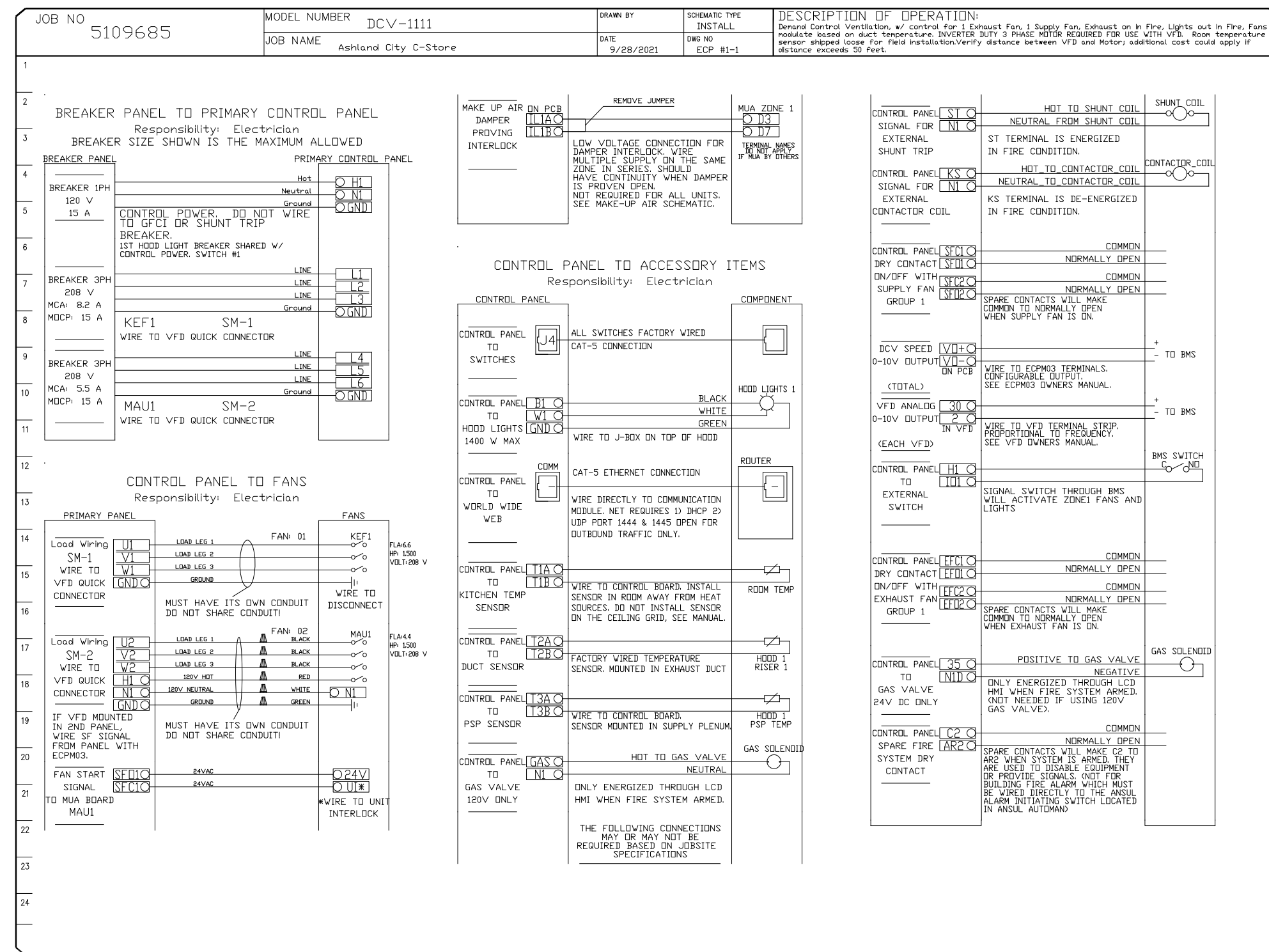
MECHANICAL OFFICE SPECIFICATIONS

M-209

Win ENGINEERING logo and contact information: 2 International Plaza Suite 410 Nashville, TN 37217, Phone: 615-891-4565 | Fax: 615-250-0580, Project #04321

ELECTRICAL PACKAGE - JOB#5109685

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	HP	VOLT	FLA	
1	DCV1	DCV-1111	UTILITY CABINET LEFT	03 - UTILITY CABINET LEFT HOOD # 1	1 LIGHT	SMART CONTROLS DCV	MAUJ	SUPPLY	3	1500	208	6.6



CASlink Monitor and Control
 Hood control panel to support communications to cloud-based Building Management System.
 Hood Control Panel to allow cloud-based Building Management System to monitor real time parameters outlined as MONITOR in the points list.
 Hood Control Panel to allow cloud-based Building Management System to control parameters outlined as CONTROL in the points list.
 Hood Control Panel to allow cloud-based Building Management System to implement SYSTEM ECONOMIZER control strategies for fully integrated Building Management.

MONITORING AND CONTROL POINTS LIST

DCV Package	Function	SC Package	Function
Room Temperature	MONITOR	Room Temperature(s)	MONITOR
Duct Temperature(s)	MONITOR	Duct Temperature(s)	MONITOR
MUA Discharge Temperature	MONITOR	MUA Discharge Temperature	MONITOR
Mikchem RTU Discharge Temperature	MONITOR	Mikchem RTU Discharge Temperature	MONITOR
Fan Speed	MONITOR	Controller Faults	MONITOR
Fan Amperage	MONITOR	Fan Status	MONITOR
Fan Power	MONITOR	Fan Faults	MONITOR
VFD Faults	MONITOR	SCU Filter Cap Percentages	MONITOR
Controller Faults	MONITOR	Fire Condition	MONITOR
Fan Status	MONITOR	COSE Fire System	MONITOR & CONTROL
SCU Filter Cap Percentages	MONITOR	Building Pressures	MONITOR
Fire Condition	MONITOR	Fans Button(s)	MONITOR & CONTROL
COSE Fire System	MONITOR	Lights Button(s)	MONITOR & CONTROL
Building Pressures	MONITOR	Wash Button	MONITOR & CONTROL
Pre Time Button	MONITOR & CONTROL		
Fans Button	MONITOR & CONTROL		
Lights Button	MONITOR & CONTROL		
Wash Button	MONITOR & CONTROL		

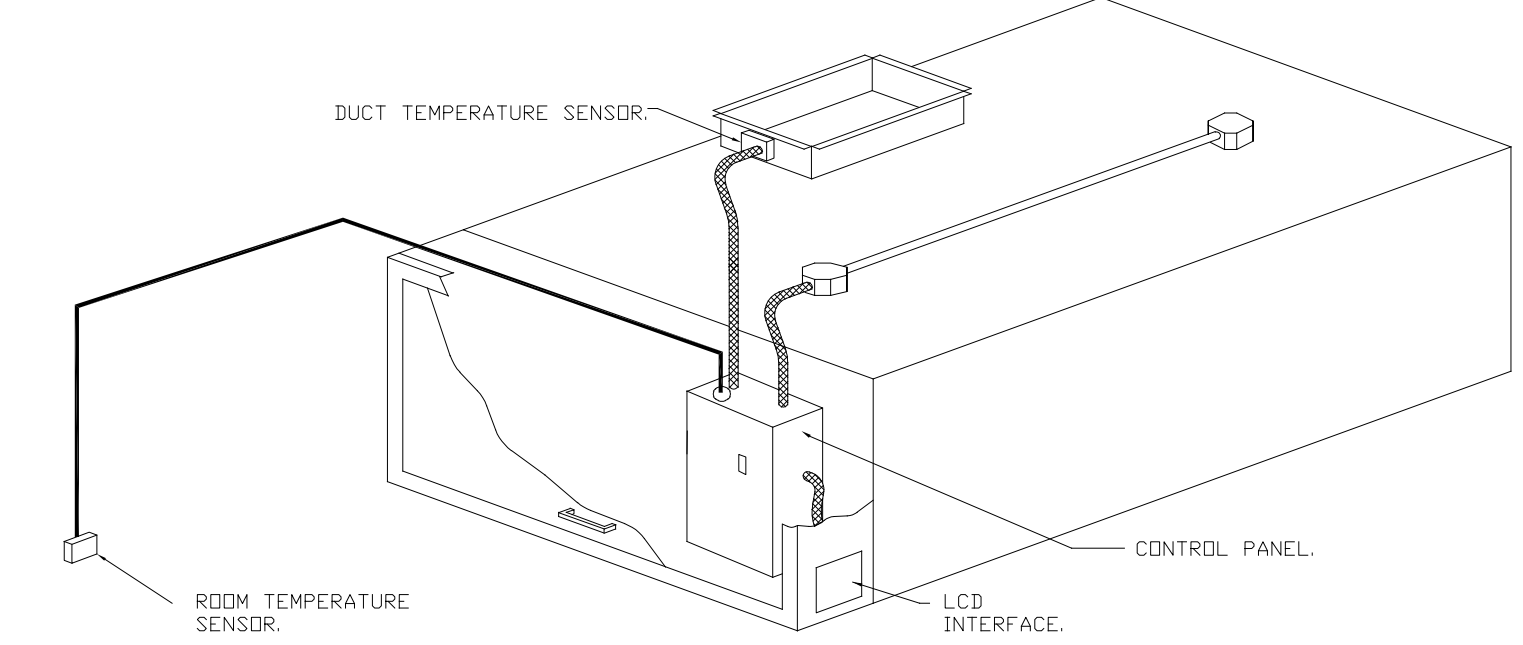
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DEMAND CONTROL VENTILATION HOOD CONTROL PANEL SPECIFICATIONS:

- CONTROLS SHALL BE LISTED BY ETL (UL 508A) AND SHALL COMPLY WITH DEMAND VENTILATION SYSTEM TURNDOWN REQUIREMENTS OUTLINED IN IECC 403.2.8 (2015).
- THE CONTROL ENCLOSURE SHALL BE NEMA 1 RATED AND LISTED FOR INSTALLATION INSIDE OF THE EXHAUST HOOD UTILITY CABINET. THE CONTROL ENCLOSURE MAY BE CONSTRUCTED OF STAINLESS STEEL OR PAINTED STEEL.
- TEMPERATURE PROBE(S) LOCATED IN THE EXHAUST DUCT RISER(S) SHALL BE CONSTRUCTED OF STAINLESS STEEL.
- A DIGITAL CONTROLLER SHALL BE PROVIDED TO ACTIVATE THE HOOD EXHAUST FANS DYNAMICALLY BASED ON A FIXED DIFFERENTIAL BETWEEN THE AMBIENT AND DUCT TEMPERATURE SENSORS. THIS FUNCTION SHALL MEET THE REQUIREMENTS OF IMC 507.1.1.
- A DIGITAL CONTROLLER SHALL PROVIDE ADJUSTABLE Hysteresis SETTINGS TO PREVENT CYCLING OF THE FANS AFTER THE COOKING APPLIANCES HAVE BEEN TURNED OFF AND/OR THE HEAT IN THE EXHAUST SYSTEM IS REDUCED.
- A DIGITAL CONTROLLER SHALL PROVIDE AN ADJUSTABLE MINIMUM FAN RUN-TIME SETTING TO PREVENT FAN CYCLING.
- VARIABLE FREQUENCY DRIVES (VFDs) SHALL BE PROVIDED FOR FANS AS REQUIRED. THE DIGITAL CONTROLLER SHALL MODULATE THE VFDs BETWEEN A MINIMUM SETPOINT AND A MAXIMUM SETPOINT ON DEMAND. THE DUCT TEMPERATURE SENSOR INPUT(S) TO THE DIGITAL CONTROLLER SHALL BE USED TO CALCULATE THE SPEED REFERENCE SIGNAL.
- THE VFD SPEED RANGE OF OPERATION SHALL BE FROM 0% TO 100% FOR THE SYSTEM, WITH THE ACTUAL MINIMUM SPEED SET AS REQUIRED TO MEET MINIMUM VENTILATION REQUIREMENTS.
- AN INTERNAL ALGORITHM TO THE DIGITAL CONTROLLER SHALL MODULATE SUPPLY FAN VFD SPEED PROPORTIONAL TO ALL EXHAUST FANS THAT ARE LOCATED IN THE SAME FAN GROUP AS THE SUPPLY FAN.
- THE SYSTEM SHALL OPERATE IN PREP MODE DURING LIGHT COOKING LOAD OR COOL DOWN MODE WHEN SUFFICIENT HEAT REMAINS UNDERNEATH THE HOOD SYSTEM AFTER COOKING OPERATIONS HAVE COMPLETED. OPERATION DURING EITHER OF THESE PERIODS WILL DISABLE THE SUPPLY FANS AND PROVIDE AN EXHAUST FAN SPEED THAT IS EQUAL TO THE MINIMUM VENTILATION REQUIREMENT.
- A DIGITAL CONTROLLER SHALL DISABLE THE SUPPLY FAN(S), ACTIVATE THE EXHAUST FAN(S), ACTIVATE THE APPLIANCE SHUNT TRIP, AND DISABLE AN ELECTRIC GAS VALVE AUTOMATICALLY WHEN FIRE CONDITION IS DETECTED ON A COVERED HOOD.
- A DIGITAL CONTROLLER SHALL ALLOW FOR EXTERNAL BMS FAN CONTROL VIA DRY CONTACT (EXTERNAL CONTROL SHALL NOT OVERRIDE FAN OPERATION LOGIC AS REQUIRED BY CODE).
- AN LCD INTERFACE SHALL BE PROVIDED WITH THE FOLLOWING FEATURES:
 A. ON/OFF PUSH BUTTON FAN & LIGHT SWITCH ACTIVATION.
 B. INTEGRATED GAS VALVE RESET FOR ELECTRONIC GAS VALVES (NO RESET RELAY REQUIRED).
 C. VFD FAULT DISPLAY WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
 D. DUCT TEMPERATURE SENSOR FAILURE DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
 E. MIS-WIRED DUCT TEMPERATURE SENSOR DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
 F. A SINGLE LOW VOLTAGE CAT-5 RJ45 WIRING CONNECTION.
 G. AN ENERGY SAVINGS INDICATOR THAT UTILIZES MEASURED KWH FROM THE VFDs.



SEQUENCE OF OPERATIONS:
 THE HOOD CONTROL PANEL IS CAPABLE OF OPERATING IN ONE OR MORE OF THE FOLLOWING STATES AT A GIVEN TIME:
 - **AUTOMATIC:** THE SYSTEM OPERATES BASED ON THE DIFFERENTIAL BETWEEN ROOM TEMPERATURE AND THE TEMPERATURE AT THE HOOD CAVITY OR EXHAUST DUCT COLLAR. FANS ACTIVATE AT A CONFIGURABLE TEMPERATURE DIFFERENTIAL THRESHOLD. DEPENDING ON THE JOB CONFIGURATION EACH FAN ZONE CAN BE CONFIGURED AS STATIC OR DYNAMIC. THESE TERMS REFER TO WHETHER A VARIABLE MOTOR (SUCH AS EC MOTORS OR VFD DRIVEN MOTORS) MODULATE WITH TEMPERATURE. IF THE PANEL IS EQUIPPED WITH VARIABLE SPEED FANS AND THE ZONE IS DEFINED AS "DYNAMIC", THESE WILL MODULATE WITHIN A USER-DEFINED RANGE BASED ON THE TEMPERATURE DIFFERENTIAL. PANELS EQUIPPED WITH VARIABLE SPEED FANS AND A FAN ZONE DEFINED AS "STATIC", FANS WILL RUN AT A SET SPEED CALCULATED FOR THE DRIVE. DEMAND CONTROL VENTILATION SYSTEMS ARE CAPABLE OF MODULATING EXHAUST AND MAKE UP AIR FAN SPEEDS PER THE REQUIREMENTS OUTLINED IN IECC 403.2.8.
 - **MANUAL:** THE SYSTEM OPERATES BASED ON HUMAN INPUT FROM AN HMI.
 - **SCHEDULE:** A WEEKLY SCHEDULE CAN BE SET TO RUN FANS FOR A SPECIFIED PERIOD THROUGHOUT THE DAY. THERE ARE THREE OCCUPIED TIMES PER DAY TO ALLOW FOR THE USER TO SET UP A TIME THAT IS SUITABLE TO THEIR NEEDS. ANY TIME THAT IS WITHIN THE DEFINED OCCUPIED TIME, THE SYSTEM WILL RUN AT MODULATION MODE AND FOLLOW THE FAN PROCEDURE ALGORITHM BASED ON TEMPERATURE. DURING THIS TIME, DURING UNOCCUPIED TIME, THE SYSTEM WILL HAVE AN EXTRA OFFSET TO PREVENT UNINTENDED ACTIVATION OF THE SYSTEM DURING A TIME WHERE THE SYSTEM IS NOT BEING OCCUPIED.
 - **OTHER:** THE SYSTEM OPERATES BASED ON THE INPUT FROM AN EXTERNAL SOURCE (DDC, BMS OR HARD-WIRED INTERLOCK).
 - **FIRE:** UPON ACTIVATION OF THE HOOD FIRE SUPPRESSION SYSTEM, THE EXHAUST FAN WILL COME ON OR CONTINUE TO RUN. THE HOOD MAKEUP AIR WILL SHUT DOWN AND A SIGNAL WILL BE SENT FOR ACTIVATING THE SHUNT TRIP BREAKER PROVIDED BY THE ELECTRICIAN. FUEL GAS WILL SHUT OFF VIA A MECHANICAL/ELECTRICAL GAS VALVE ACTUATED BY THE HOOD FIRE SUPPRESSION SYSTEM.

CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted
 Approved with NO Exception Taken
 Revise and Resubmit
 SIGNATURE _____ Date _____
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FOR QUESTIONS, CALL THE
 Nashville Office
 REGION 44
 PHONE: (615) 999-8300
 EMAIL: reg44@econair.com

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nashville, tennessee
 e: office@meridiantn.com
 t: 615.990.2236
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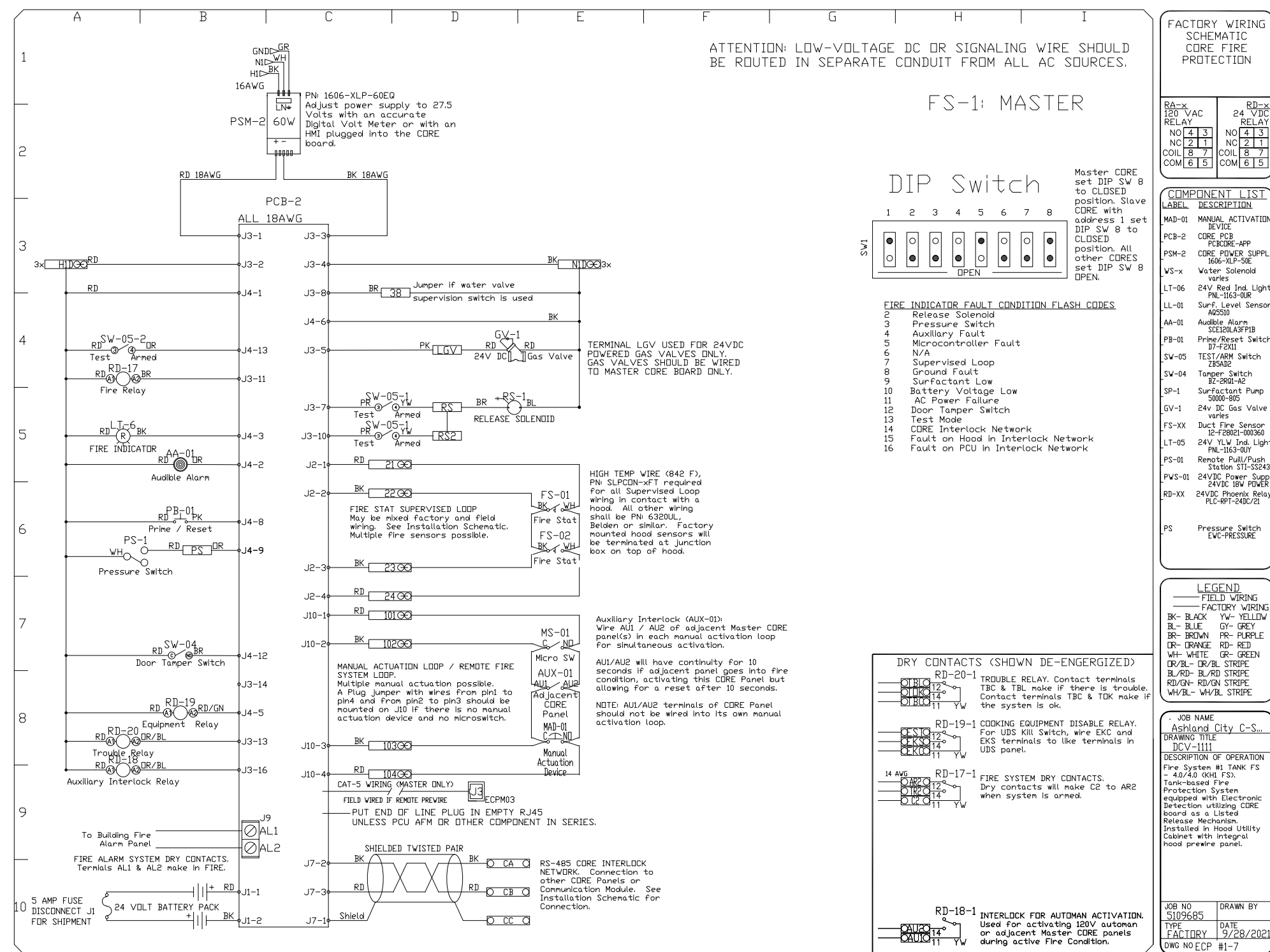
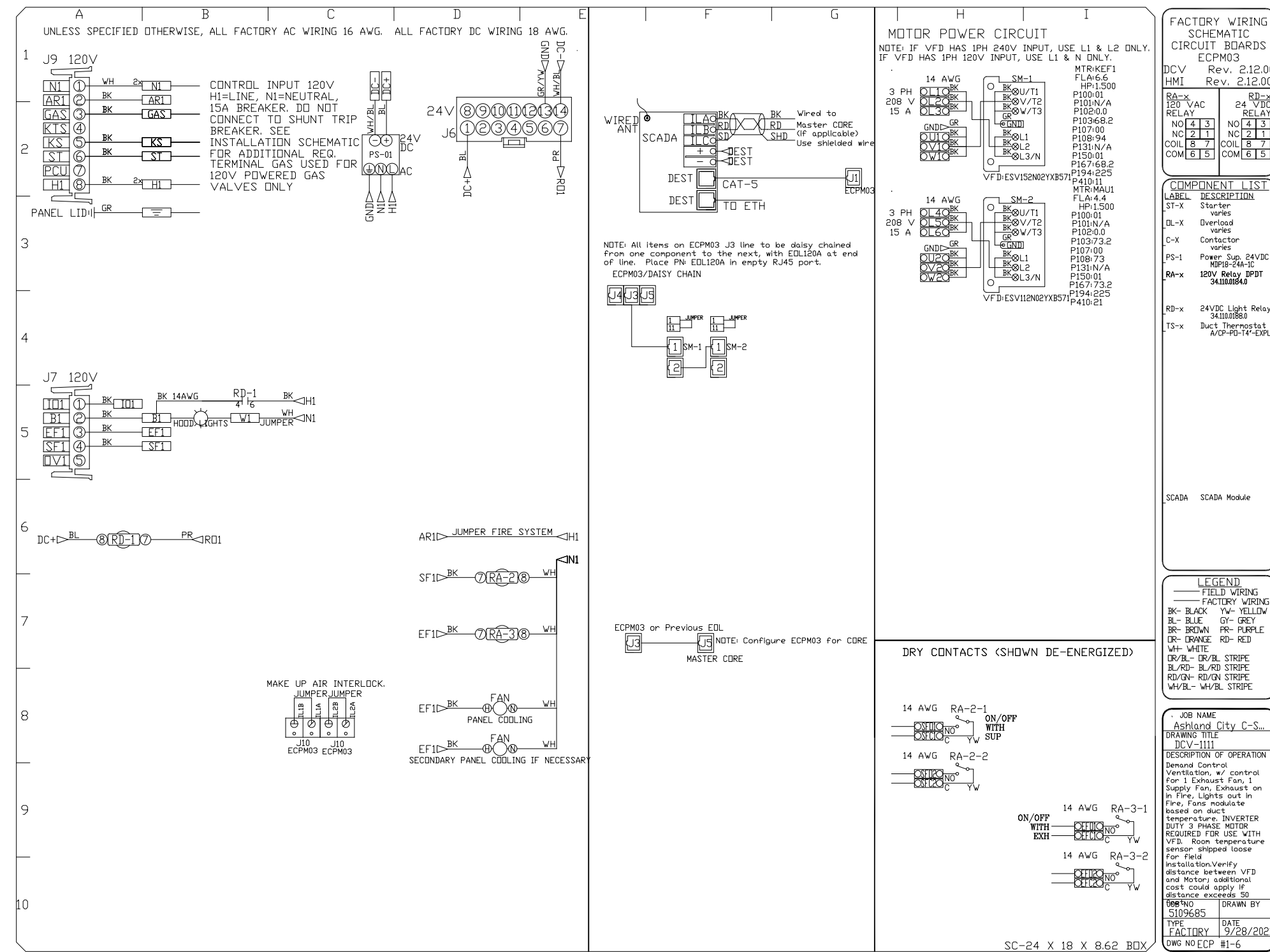
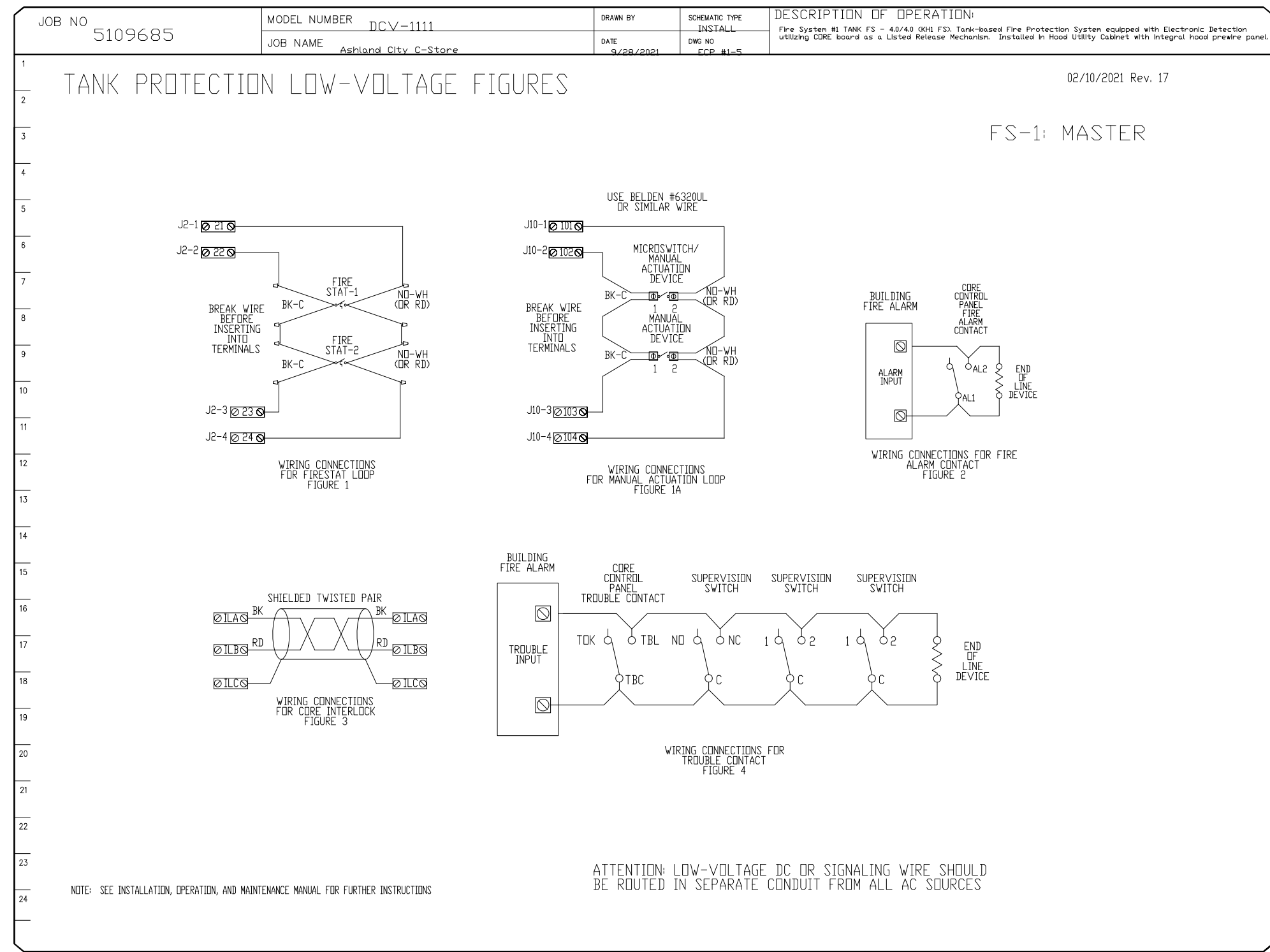
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MECHANICAL HOOD SPECIFICATIONS

M-210

W in ENGINEERING
 2 International Plaza Suite 410 Nashville, TN 37217
 Phone: 615-891-4565 | Fax: 615-250-0580
 Project #04321



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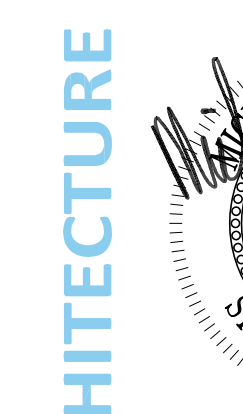
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DEMAND CONTROL

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MERIDIAN ARCHITECTURE

nashville, tennessee
 e: office@meridiandn.com
 t: 615.590.2336
 www.meridiandn.com

REVISIONS:

DELTA	DESCRIPTION	DATE

DATE OF ISSUE: 10.20.2021

MA PROJECT NO: 0214-21

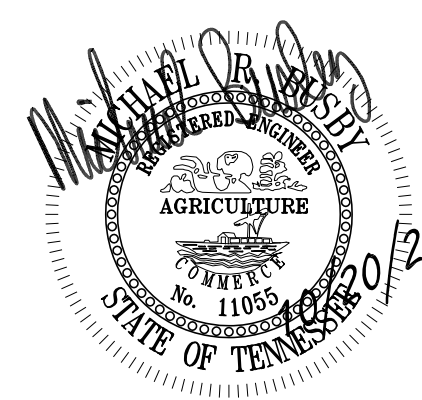
PROJECT PHASE: CD

DRAWN BY: WIN

W in ENGINEERING

2 International Plaza Suite 410 Nashville, TN 37217
 Phone: 615-891-4565 | Fax: 615-250-0580
 Project #04321

M-211



REVISIONS:

DELTA	DESCRIPTION	DATE

DATE OF ISSUE: 10.20.2021

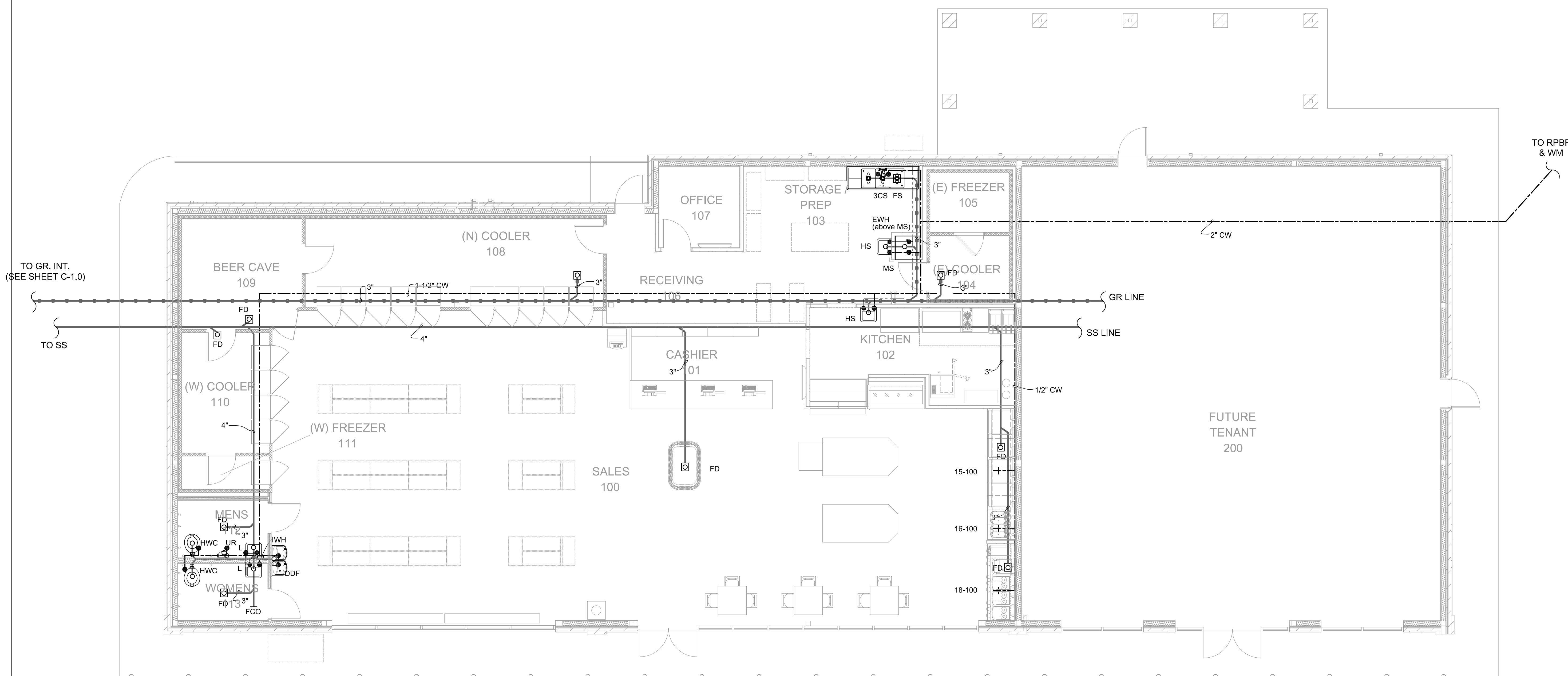
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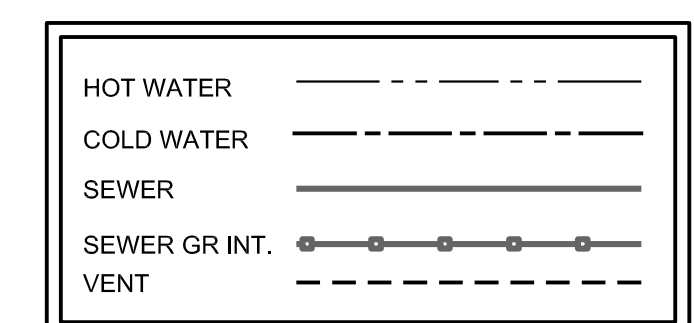
PLUMBING PLAN

P-101



PLUMBING FLOOR PLAN

SCALE: 3/16" = 1'-0"

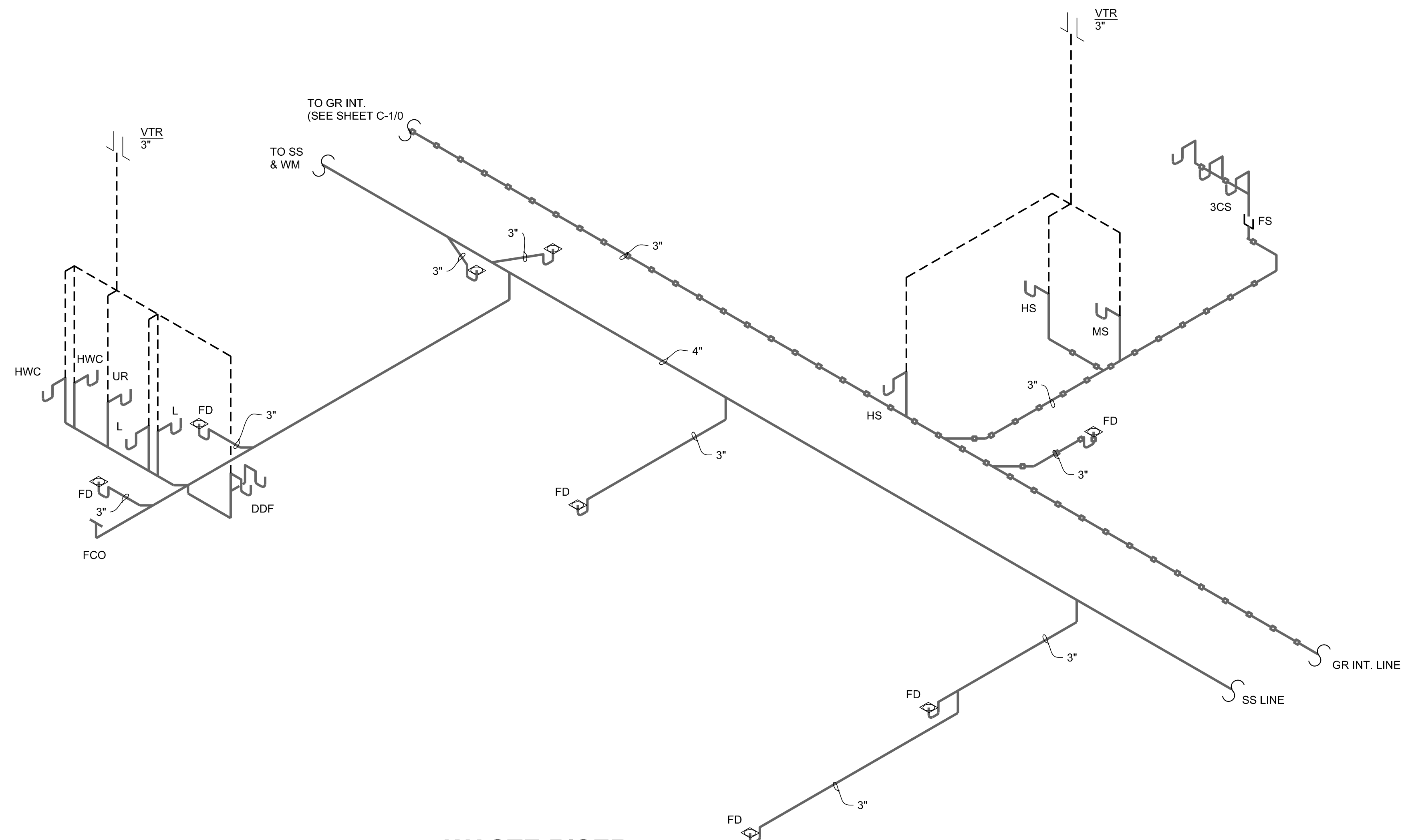


PLUMBING FIXTURES SPECIFICATION
ALL PLUMBING FIXTURES SELECTED BY OWNER

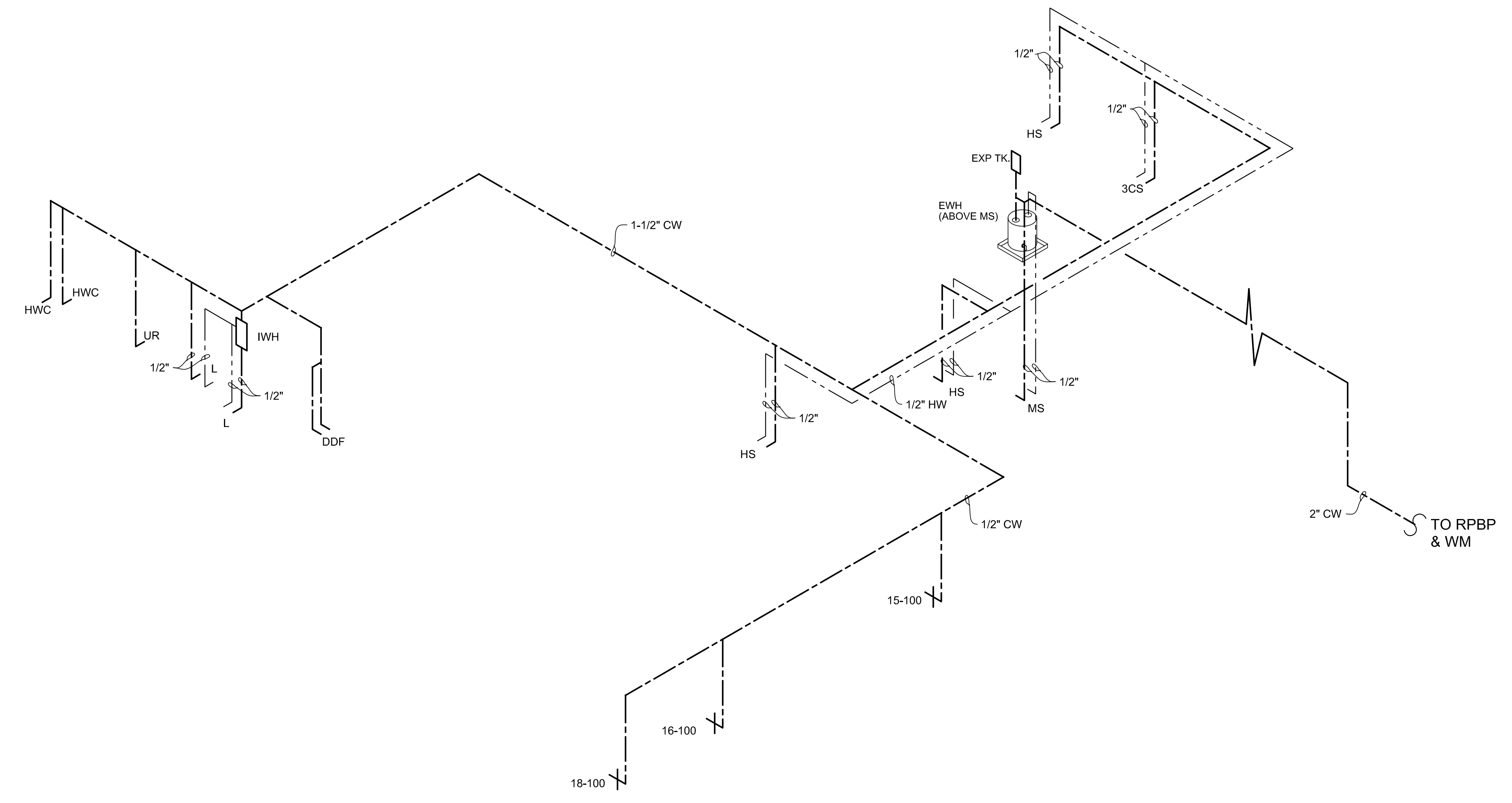
- PLUMBING SPECIFICATIONS**
- FURNISH & INSTALL ALL PIPE, VALVES, AND FITTINGS WITH COMPLETE AND SATISFACTORY INSTALLATION INCLUDING ALL NECESSARY PARTS AND DEVICES, ACCESSORIES, ETC. AS REQUIRED BY LOCAL, STATE, AND NATIONAL CODES.
 - ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL CODES AND ORDINANCES.
 - THE FOLLOWING ITEMS SHALL REQUIRE SUBMITTALS: PIPE & FIXTURES; PLUMBING FIXTURES; VALVES; WATER HEATERS.
 - WASTE AND VENT PIPING AND FITTINGS SHALL BE SOLVENT CEMENT JOINT SCHEDULE 40 PVC.
 - ALL WATER PIPING SHALL BE COPPER TUBE ASTM-88. WATER PIPING BELOW GRADE SHALL BE TYPE K SOFT ANNEALED. WATER PIPING ABOVE GRADE SHALL BE TYPE L HARD DRAW. FITTINGS SHALL BE WROUGHT WITH LEAD FREE SOLDER.
 - ALL WATER PIPING ABOVE SLAB SHALL BE INSULATED WITH FIBERGLASS INSULATION WITH AN ALL SERVICE JACKET. INSULATION THICKNESS: PIPE 1" AND SMALLER: 1/2" THICK; PIPE 1 1/4" AND LARGER: 1" THICK.
 - ALL WATER PIPING BELOW SLAB SHALL BE INSULATED WITH FOAM CELL INSULATION 1" THICK.
 - ALL RELATED MATERIALS INCLUDING INSULATION CLOTHS, CEMENTS, JACKETS, FACINGS, ADHESIVES, TAPES, ETC. SHALL HAVE A COMPOSITE FIRE AND SMOKE HAZARD RATING NOT TO EXCEED A FLAME SPREAD RATING OF 25 AND DEVELOPED SMOKE RATING OF 50.
 - PROVIDE DIELECTRIC UNIONS WHEN JOINING DISSIMILAR METALS.
 - APPROVED STANDARD WEIGHT VALVES SUITABLE FOR A WORKING PRESSURE MINIMUM OF 125 PSIG.
 - GATE VALVES SHALL BE BRASS WITH OPERATING WHEELS, PACKING GLANDS, AND RISING STEMS.
 - VACUUM BREAKERS SHALL BE INSTALLED ON ALL FIXTURES WHERE REQUIRED BY CODES.
 - MAKE ALL WATER AND AIR TESTS OF THE PLUMBING SYSTEMS IN THE PRESENCE OF AND TO THE SATISFACTION OF THE ARCHITECT OR HIS DESIGNATED REPRESENTATIVE. ALL TESTS SHALL BE CONDUCTED PRIOR TO THEM BEING COVERED AND SEALED.
 - THE PIPING SYSTEM SHALL BE STERILIZED AND COMPLY WITH ALL THE GOVERNING REGULATIONS AND WITH THE STERILIZATION PROCEDURES AS RECOMMENDED BY THE AMERICAN WATER ASSOCIATION.
- * PEX TUBING MAY BE USED IN LIEU OF COPPER IF APPROVED BY CODES.

CONSULTANT

Win ENGINEERING
2 International Plaza Suite 410 Nashville, TN 37217
Phone: 615-891-4565 | Fax: 615-250-0580
Project #04321



WASTE RISER
SCALE: NTS



SUPPLY RISER
SCALE: NTS

HOT WATER	---
COLD WATER	----
SEWER	----
SEWER GR INT.	----
VENT	----

PLUMBING FIXTURES SPECIFICATION
ALL PLUMBING FIXTURES SELECTED BY OWNER

- PLUMBING SPECIFICATIONS**
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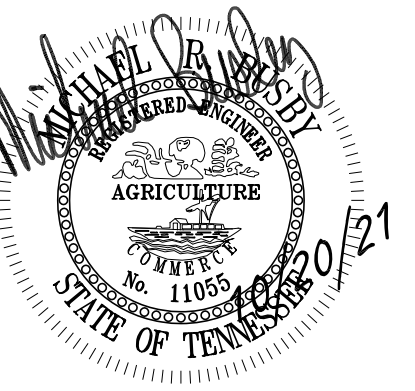
CONSULTANT

Win ENGINEERING
2 International Plaza Suite 410 Nashville, TN 37217
Phone: 615-891-4565 | Fax: 615-250-0580
Project #04321

ASHLAND CITY C-STORE
DHAVAL PATEL
0 Old Hydes Ferry Pike, Ashland City, TN 37015

CLIENT CONTACT:
DHAVAL PATEL
(615)-598-5887 | dhawalom@gmail.com

ARCHITECTURE
MERIDIAN



nashville, tennessee
e: office@meridiantn.com
t: 615.990.2236
www.meridiantn.com

REVISIONS:

DELTA	DESCRIPTION	DATE

DATE OF ISSUE: 10.20.2021
MA PROJECT NO: 0214-21
PROJECT PHASE: CD
DRAWN BY: WIN

PLUMBING RISER PLAN

P-102

ITEM # 4

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GENERAL NOTES

- 1. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70, NATIONAL ELECTRICAL CODE.
2. ALL SINGLE PHASE BRANCH CIRCUITS (RECEPTACLES, LIGHTING, ETC.) ARE 3/4" CONDUIT OR EMT WITH (3)#12 BLACK/WHITE/GREEN, THHN, 90 DEGREES C WIRING. ALL OTHER CONDUIT AND WIRING SHALL BE AS INDICATED ON THE PLANS. ACTUAL ROUTING AND HOMERUN GROUPINGS ARE TO BE DETERMINED IN THE FIELD. ALL WIRING SHALL BE COPPER.
3. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC EXCEPT FOR DETAILS AND ELEVATIONS. DO NOT SCALE FROM DIAGRAMMATIC DRAWINGS. EXACT LOCATIONS OF DEVICES AND PANELS ARE TO BE DETERMINED AND ROUGHED-IN DURING CONSTRUCTION TO AVOID INTERFERENCE, TO MEET USER REQUIREMENTS, TO PROVIDE ADEQUATE MOUNTING, AND TO MEET NEC LINEAR ACCESS AND CLEARANCE REQUIREMENTS.
4. VERIFY EXACT LOCATIONS OF MOTORS AND EQUIPMENT BEFORE ROUGHING IN. VERIFY ALL NEW RECEPTACLE LOCATIONS AND RECEPTACLE TYPES WITH OWNER PRIOR TO CONSTRUCTION.
5. FINAL CONNECTIONS TO ALL AIR-HANDLERS, CONDENSING UNITS, EXHAUST FANS, AND OTHER EQUIPMENT DEVICES WHICH VIBRATE, SHALL BE MADE WITH FLEXIBLE SEALTITE AND APPROPRIATE WIRING.
6. IN ADDITION TO THE NEC REQUIREMENTS FOR GFCI RATED RECEPTACLES, THE FOLLOWING RECEPTACLES SHALL ALSO BE GFCI RATED: (1) ALL RECEPTACLES LOCATED WITHIN 6 FEET OF A SINK, (2) ALL RECEPTACLES WHICH ARE PROVIDED FOR CONVENIENCE IN SERVICING HVAC EQUIPMENT REGARDLESS OF LOCATION. PROVIDE INDIVIDUAL GFCI DEVICES ONLY. GFCI CIRCUIT BREAKERS ARE NOT ACCEPTABLE.
7. PROVIDE A LAMICOID NAMEPLATE (WHITE LETTERS ON BLACK BACKGROUND) ON EACH PANELBOARD, MOTOR STARTER, CONTACTOR, TRANSFORMER, ETC. LETTERS SHALL BE 0.75 INCH MINIMUM.
8. CIRCUIT BREAKERS FOR HVAC EQUIPMENT SHALL BE HACR RATED.
9. MINIMUM HORIZONTAL SEPARATION BETWEEN BOXES ON OPPOSITE WALLS OF FIRE RATED WALL SHALL BE 24 INCHES.
10. VERIFY ALL DOOR SWINGS WITH ARCHITECTURAL BEFORE ROUGHING IN LIGHT SWITCHES.
11. TRADE NAMES ARE GIVEN TO CLARIFY TYPE OF PRODUCT AND QUALITY DESIRED.
12. CONTRACTOR SHALL CUT AS REQUIRED TO INSTALL ELECTRICAL EQUIPMENT. REPAIR OF FLOOR OR WALLS SHALL BE COORDINATED WITH GENERAL CONTRACTOR. CONTRACTOR SHALL ALSO REPAIR ALL OPENINGS LEFT DUE TO EQUIPMENT REMOVAL.
13. CONDUCTORS ARE AWG#12 COPPER UNLESS OTHERWISE SHOWN. ALL CONDUCTORS LARGER THAN #10 SHALL BE STRANDED. BRANCH CIRCUIT RUNS IN EXCESS OF 100 FEET (ONE WAY) SHALL BE SIZED PER THE NATIONAL ELECTRICAL CODE MAXIMUM 3% VOLTAGE DROP. SEE SCHEDULE, THIS SHEET. FEEDER CIRCUIT RUNS IN EXCESS OF 100 FEET (ONE WAY) SHALL BE SIZED PER THE NATIONAL ELECTRICAL CODE MAXIMUM 2% VOLTAGE DROP.
14. PANELBOARDS SHALL CONTAIN A TYPEWRITTEN DIRECTORY WITH A PLASTIC COVER AFFIXED TO THE INSIDE OF THE DOOR. UPDATE EXISTING PANELBOARD DIRECTORIES WHERE MODIFICATIONS ARE BEING MADE.
15. ALL FIXTURES, DEVICES, CONDUIT, AND EQUIPMENT SHALL BE SECURED WITH APPROVED HANGERS AND ANCHORS AND IN ACCORDANCE WITH APPROVED STANDARDS OF INSTALLATION.
16. ALL BREAKERS SHOWN IN THE PANELBOARD SCHEDULE SHALL BE RATED AS SHOWN FOR BOTH CIRCUIT CAPACITY AND FAULT CURRENT INTERRUPTING CAPACITY.
17. CONDUIT FOR TELEPHONE OUTLETS SHALL BE 3/4" EMT. PROVIDE PULL STRING TO TELEPHONE BACKBOARD VIA CONDUITS AND CABLE TRAY WHERE FEASIBLE.
18. ALL PANELBOARDS, DISCONNECT SWITCHES, MOTOR STARTERS, AND CONTACTORS SHALL BE NEMA 1 UNLESS OTHERWISE NOTED.
19. THESE DRAWINGS HAVE BEEN DEVELOPED FROM THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING JOB SITE CONDITIONS. CARE SHALL BE TAKEN DURING DEMOLITION TO AVOID DAMAGE TO ADJACENT AREA.
20. WHERE DISCREPANCIES EXIST BETWEEN DRAWINGS AND SPECIFICATIONS, DRAWINGS SHALL OVERRIDE SPECIFICATIONS.
21. ALL OCCUPANCY SENSORS SHALL BE DUAL TECHNOLOGY.
22. VERIFY FUNCTIONALITY AND CONDITION OF ALL ELECTRICAL CONDUIT, WIRING, AND DEVICES AFFECTED BY THIS PROJECT THAT SHALL REMAIN OR BE REUSED.
23. MAINTAIN ELECTRICAL PANEL CONNECTIONS TO EXISTING AREAS AND EMERGENCY GENERATOR IF APPLICABLE.
24. MAINTAIN CIRCUITRY OF ALL EXISTING EQUIPMENT NOT SHOWN AS CHANGING OR NOT IN THE SCOPE OF THIS PROJECT. UTILITIES SERVING OTHER AREAS BUT PASSING THROUGH CONSTRUCTION AREA SHALL REMAIN BUT MAY REQUIRE REWORK TO ACHIEVE THE REQUIREMENTS OF THIS PROJECT.

ABBREVIATIONS table with columns: ABBREVIATION, MEANING. Rows include: A AMPS, AFF ABOVE FINISHED FLOOR, AFG ABOVE FINISHED GRADE, C CEILING, EL EXISTING TO BE RELOCATED, ER EXISTING TO BE REMOVED, EX EXISTING TO REMAIN, FBO FURNISHED BY OTHERS, FPMPR FUSE PER MANUFACTURER'S RECOMMENDATIONS, G, GFCI GROUND FAULT CIRCUIT INTERRUPTER, HP HORSEPOWER, MTD MOUNTED, NA NOT APPLICABLE, NF NON-FUSED, NIC NOT IN CONTRACT, NL NIGHTLIGHT - PROVIDE UNSWITCHED HOT TO LIGHTING FIXTURE, RL RELOCATE/RELOCATED, S SAFETY TYPE RECEPTACLE, TV TELEVISION CONNECTION - MOUNTING HT @ 84" AFF U.N.O., UON UNLESS OTHERWISE NOTED, V VOLTS, VA VOLT-AMPS, W WATTS, WP WEATHER PROOF, WR WEATHER RESISTANT, XFMR TRANSFORMER.

MAXIMUM BRANCH CIRCUIT LENGTH FOR SINGLE-PHASE LOADS (IN FEET) table with columns: MAXIMUM ALLOWABLE VOLTAGE DROP, 3%, 120V, 208V, 277V. Rows include: BRANCH CIRCUIT VOLTAGE, CONDUCTOR WIRE SIZE (AWG), #12, #10, #8, #6, #4, #3, #2, #1.

ALL BRANCH CIRCUITS TO MAINTAIN A MAXIMUM VOLTAGE DROP OF 3%. ADJUST BRANCH CIRCUIT WIRE SIZE PER MAXIMUM BRANCH CIRCUIT LENGTH.

ALL FEEDER CIRCUITS TO MAINTAIN A MAXIMUM VOLTAGE DROP OF 2%. ADJUST FEEDER CIRCUIT WIRE SIZE PER MAXIMUM FEEDER CIRCUIT LENGTH.

FIRE ALARM LEGEND & NOTES

FIRE ALARM LEGEND table with columns: SYMBOL, DESCRIPTION, MTG. HT. Rows include: FIRE ALARM MANUAL PULL STATION, FIRE ALARM VISUAL STATION - STROBE LIGHT ONLY, FIRE ALARM HORN WITH STROBE LIGHT, SMOKE DETECTOR - CEILING MOUNTED, HEAT DETECTOR - CEILING MOUNTED, DUCT SMOKE DETECTOR - SUPPLY, DUCT SMOKE DETECTOR - RETURN, FIRE ALARM CONTROL PANEL, FIRE ALARM ANNUNCIATOR, FIRE ALARM FLOW SWITCH, FIRE ALARM TAMPER SWITCH.

- NOTES:
1. VERIFY LOCATION OF ALL DEVICES AND PANEL WITH FIRE MARSHALL AND CITY REPRESENTATIVE.
2. FOR INTERFACE WITH EXISTING FIRE ALARM SYSTEMS, ENSURE DEVICES ARE COMPATIBLE WITH EXISTING INSTALLATION. EXPAND/REPLACE EXISTING PANEL AS NEEDED.
3. TROUBLE AND ALARM INITIATIONS TO TRANSMIT SEPARATE AND DISTINCT SIGNALS TO MONITORING STATIONS.
4. INCOMING "FIRE" ALARM INITIATIONS SHALL OVERRIDE "TROUBLE" INITIATIONS.
5. SEPARATE "TROUBLE" AND "ALARM" SIGNALS SHALL BE ANNUNCIATED AT CONTROL PANEL.
6. SUBMIT SHOP DRAWINGS TO FIRE MARSHALL FOR APPROVAL PRIOR TO ROUGH-IN.
7. ALL WORK SHALL BE DONE IN ACCORDANCE WITH NEC AND ALL STATE & LOCAL CODES.
8. USE TW/SH #18 WIRE FOR ADDRESSABLE CKT. USE #14 THHN FOR OTHER CIRCUITS. ALL FIRE ALARM TO BE IN CONDUIT.
9. ALARM SYSTEM SHOWN HERE IS DIAGRAMMATIC ONLY.
10. PROVIDE & INSTALL ALL "FIRE MARSHALL APPROVED" SIGNAL TRANSMISSION EQUIP. FOR MUNICIPAL TIE-IN. COORDINATE WITH FIRE DEPARTMENT.
11. COORDINATE DEVICE TEMPERATURE REQUIREMENTS WITH SPRINKLER SYSTEM ALL DEVICES IN TOP AND BOTTOM OF ELEVATOR SHAFT.
12. PROVIDE BATTERY WITH 4 HOUR STANDBY AND 10 MINUTE ALARM.
13. PROVIDE SURGE SUPPRESSORS ON DACT LINES.
14. PROVIDE SURGE SUPPRESSORS ON 120VAC.
15. THE FIRE ALARM CONTRACTOR MUST BE CERTIFIED IN ACCORDANCE WITH TENNESSEE ALARM CONTRACTORS LICENSING ACT OF 1991, TCA TITLE 62, CHAPTER 32.
16. THE FIRE ALARM CONTROL PANEL CIRCUIT DISCONNECTING MEANS SHALL HAVE A RED MARKING, SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL, AND SHALL BE IDENTIFIED AS "FIRE ALARM CIRCUIT". THE LOCATION OF THE CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM UNIT.

ELECTRICAL LEGEND

ELECTRICAL LEGEND table with columns: SYMBOL, DESCRIPTION, MTG. HT. Rows include: CONCEALED CONDUIT & CIRCUITRY, CONCEALED CONDUIT & CIRCUITRY HOMERUN TO PANELBOARD AND BREAKER NUMBER AS INDICATED, CONDUIT BELOW GRADE ON SITE, EXPOSED CONDUIT ON WALL OR CEILING, SURFACE OR RECESSED FIXTURE, SURFACE OR RECESSED FIXTURE W/ BATTERY PACK, SURFACE OR RECESSED FIXTURE, SURFACE OR RECESSED FIXTURE W/ BATTERY PACK, WALL MOUNTED FIXTURE, WALL MOUNTED FIXTURE W/ BATTERY PACK, SURFACE OR PENDANT MOUNTED LIGHT FIXTURE, EXIT LIGHT, UNIVERSAL MOUNTING, W/ INTEGRAL BATTERY PACK, BATTERY PACK FIXTURE, TRACK LIGHTING, ALL FIXTURES IN THIS SPACE SHALL BE SAME TYPE INDICATED, NOTE REFERENCE, SINGLE POLE SWITCH - TOGGLE, THREE-WAY SWITCH - TOGGLE, FOUR-WAY SWITCH - TOGGLE, DIMMER SWITCH, OCCUPANCY SENSOR SWITCH, CEILING MOUNTED OCCUPANCY SENSOR SWITCH, WALL MOUNTED OCCUPANCY SENSOR SWITCH, LOW VOLTAGE SWITCH - OVER-RIDE FOR LIGHTING CONTROL SYSTEM, LOW VOLTAGE SWITCH - NUMBER INDICATES NO. OF LIGHTING LEVELS, PHOTOCCELL, ASTRONOMICAL TIME CLOCK, RECEPTACLES, 120V. DUPLEX RECEPTACLE, 120V. DUPLEX RECEPTACLE - SPECIAL MOUNTING HEIGHT, 120V. QUADPLEX RECEPTACLE UNDER SINGLE COVERPLATE, SINGLE SPECIAL PURPOSE RECEPTACLE - VOLTAGE, AMP, & NEMA CONFIGURATION AS NOTED, 120V. QUADPLEX RECEPTACLE - SPECIAL MOUNTING HEIGHT, POWER POLE, DUPLEX FLOOR RECEPTACLE, MANUAL MOTOR RATED SWITCH, NON-FUSED DISCONNECT, FUSED DISCONNECT, COMBINATION ACROSS THE LINE MOTOR STARTER, COMMUNICATIONS, TELEPHONE/DATA 2 GANG OUTLET, TELEPHONE/DATA 2 GANG OUTLET MOUNTED FLUSH IN FLOOR, TELEVISION OUTLET, SOUND SYSTEM OUTLET, TELEPHONE TERMINAL BACKBOARD, SURFACE MOUNTED PANELBOARD, FLUSH MOUNTED PANELBOARD, ELECTRIC MOTOR, EXHAUST FAN.

REVISIONS:

REVISIONS table with columns: DELTA, DESCRIPTION, DATE. Rows include: DATE OF ISSUE, MA PROJECT NO, PROJECT PHASE, DRAWN BY.

DHAYAL PATEL
0 Old Hydes Ferry Pike, Ashland City, TN 37015
CLIENT CONTACT:
DHAYAL PATEL
98451598-5887
dhawalom@gmail.com



nashville, tennessee
e: office@meridiantn.com
t: 615.390.2236
www.meridiantn.com



ELECTRICAL LEGENDS & SCHEDULES

E-001

LIGHTING FIXTURE SCHEDULE						
TYPE	DESCRIPTION	MANUFACTURER MODEL	VOLTAGE	LAMPS	MOUNTING	NOTES
A	2X4 L.E.D. FLAT PANEL TROFFER LIGHT FIXTURE	LITHONIA LIGHTING EPANL 2X4 4000LM 80CRI 35K MIN10 MVOLT	120	39W L.E.D.	RECESSED	
B	4" L.E.D. LINEAR PENDANT LIGHT FIXTURE	MARK ARCHITECTURAL LIGHTING S4LDP CPP 4FT 80CRI 35K 800LM MIN1 MVOLT WHT ZT F2/72A RDCY BLKCY CCRD	120	31.9W L.E.D.	SUSPENDED	
C	4" L.E.D. STRIP LIGHT FIXTURE	LITHONIA LIGHTING ZL1D L48 3000LM FST MVOLT 35K 80CRI WH	120	30W L.E.D.	SURFACE/SUSPENDED	
D	6" DOWNLIGHT LIGHT FIXTURE	LITHONIA LIGHTING LDN6 35/15 L06AR LSS MVOLT GZ10	120	17.52W L.E.D.	RECESSED	
E	4" DOWNLIGHT LIGHT FIXTURE	LITHONIA LIGHTING WF4 LED 27K30K35K MVOLT 90CRI MW	120	10.68W L.E.D.	RECESSED	
F	DECORATIVE L.E.D. PENDANT LIGHT FIXTURE	BASELITE CORPORATION D614-44-LWHC-12W-35K-LDM0-10	120	12W L.E.D.	PENDANT	
G	4" L.E.D. STRIP GASKETED LIGHT FIXTURE	PROVIDED BY MANUFACTURER OR LITHONIA LIGHTING CSVT L48 4000LM MVOLT 35K 80CRI	120	34W L.E.D.	SURFACE	
H	L.E.D. BOLLARD EXTERIOR LIGHT FIXTURE	ABOVE ALL LIGHTING LDB42H24401-V	120	24W L.E.D.	GROUND	
J	L.E.D. CYLINDER DOWNLIGHT EXTERIOR LIGHT FIXTURE	GOTHAM LIGHTING EV045C 40/15 AR MD LSS MVOLT GZ10 JBX WL DBL	120	13.7W L.E.D.	SURFACE	
K	L.E.D. WALL PACK EXTERIOR LIGHT FIXTURE WITH EMERGENCY BATTERY	LITHONIA LIGHTING WDGE3 LED P3 40K 70CRI R3 MVOLT SRM E15WH DDBXD	120	45.7W L.E.D.	WALL, 10" - 0" A.F.F.	
X1	L.E.D. EXIT/EMERGENCY COMBO LIGHT FIXTURE EMERGENCY BATTERY	LITHONIA LIGHTING - QUANTUM LHQM LED R	120	L.E.D.	UNIVERSAL	
X2	L.E.D. EXIT LIGHT FIXTURE EMERGENCY BATTERY	LITHONIA LIGHTING - QUANTUM LHQM LED R RO	120	L.E.D.	UNIVERSAL	
X3	L.E.D. EMERGENCY LIGHT FIXTURE EMERGENCY BATTERY	LITHONIA LIGHTING - QUANTUM ELA B QWP LO304	120	L.E.D.	UNIVERSAL	
X4	L.E.D. EMERGENCY REMOTE EXTERIOR LIGHT FIXTURE EMERGENCY BATTERY	LITHONIA LIGHTING - QUANTUM ELMRW LP220L DWHXD SGL	120	L.E.D.	UNIVERSAL	

NOTES: 1. CONTRACTOR IS RESPONSIBLE FOR ORDERING ALL ACCESSORIES NECESSARY TO PROVIDE A COMPLETE INSTALLATION OF FIXTURE.

COMcheck Software Version 4.1.1.0 Interior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: Ashland City C-Store
Project Type: New Construction

Construction Site:
Ashland City, TN

Owner/Agent:

Designer/Contractor:
Lori Walters
Win Engineering
2 International Plaza
Suite 410
37217, TN

Additional Efficiency Package(s)

High efficiency HVAC. Systems that do not meet the performance requirement will be identified in the mechanical requirements checklist report.

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts (B X C)
1-Sales (Retail Sales Area)	2323	1.22	2834
3-Restrooms (Common Space Types: Restrooms)	129	0.85	110
4-Prep/Kitchen (Common Space Types: Food Preparation)	604	1.06	640
5-Office (Common Space Types: Office - Open Plan)	81	0.81	66
2-Cooler/Freezer (Common Space Types: Storage >=50 - <=1000 sq ft.)	815	0.46	375
6-Future Tenant Space (Retail Sales Area)	2108	1.22	2569
Total Allowed Watts =			6594

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-Sales (Retail Sales Area)				
LED 2: B: 4" LINEAR: LED Linear 33W:	1	18	32	574
LED 4: D: 6" DOWNLIGHT: LED Panel 19W:	1	12	18	210
LED 5: E: 4" DOWNLIGHT: LED Panel 19W:	1	6	11	64
LED 6: F: PENDANT: LED Panel 19W:	1	13	12	156
3-Restrooms (Common Space Types: Restrooms)				
LED 4: D: 6" DOWNLIGHT: LED Panel 19W:	1	4	18	70
4-Prep/Kitchen (Common Space Types: Food Preparation)				
LED 1: A: 2X4 TROFFER: LED Panel 40W:	1	6	39	234
LED 3: C: 4" STRIP: LED Linear 33W:	1	5	30	150
LED 4: D: 6" DOWNLIGHT: LED Panel 19W:	1	8	18	140
5-Office (Common Space Types: Office - Open Plan)				
LED 4: D: 6" DOWNLIGHT: LED Panel 19W:	1	4	18	70
2-Cooler/Freezer (Common Space Types: Storage >=50 - <=1000 sq ft.)				
LED 7: G: 4" GASKETED STRIP: LED Linear 33W:	1	17	34	578

Project Title: Ashland City C-Store Report date: 09/27/21
Data filename: C:\Users\Derwin\Dropbox (Win Engineering)\Work 2021\04321_Ashland City C-Store - Ashland City, TN\Design\Work in Process\C-STORE.cck Page 1 of 7

Project Title: Ashland City C-Store Report date: 09/27/21
Data filename: C:\Users\Derwin\Dropbox (Win Engineering)\Work 2021\04321_Ashland City C-Store - Ashland City, TN\Design\Work in Process\C-STORE.cck Page 2 of 7

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
6-Future Tenant Space (Retail Sales Area) LED 3: C: 4" STRIP: LED Linear 33W:	1	4	30	120
Total Proposed Watts =				2367

Interior Lighting PASSES: Design 64% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Lori A. Walters, P.E.
Name - Title

Lori A. Walters
Signature

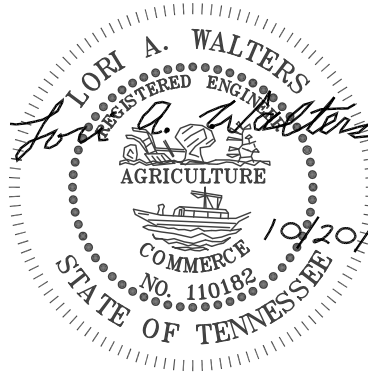
10-20-2021
Date

ASHLAND CITY C-STORE

DHAYAL PATEL
0 Old Hydes Ferry Pike, Ashland City, TN 37015

CLIENT CONTACT:
DHAYAL PATEL
615-598-5887
dhawalom@gmail.com

MERIDIAN ARCHITECTURE



nashville, tennessee
e: office@meridiantn.com
t: 615.390.2236
www.meridiantn.com

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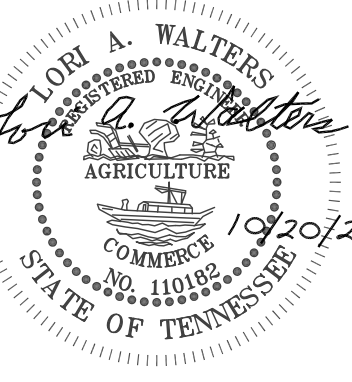
ELECTRICAL LIGHT
FIXTURE SCHEDULE
IECC REPORT

E-003

ITEM # 4.

CONSULTANT

Win
ENGINEERING
2 International Plaza Suite 410 Nashville, TN 37217
Phone: 615-891-4565 | Fax: 615-250-0580
Project #04321



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ELECTRICAL LIGHTING FLOOR PLAN

E-101

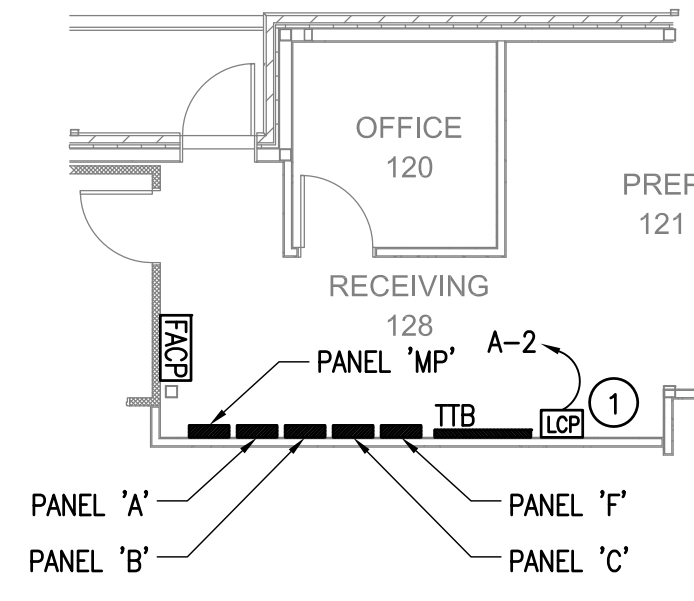
ITEM # 4.

IMPORTANT NOTE

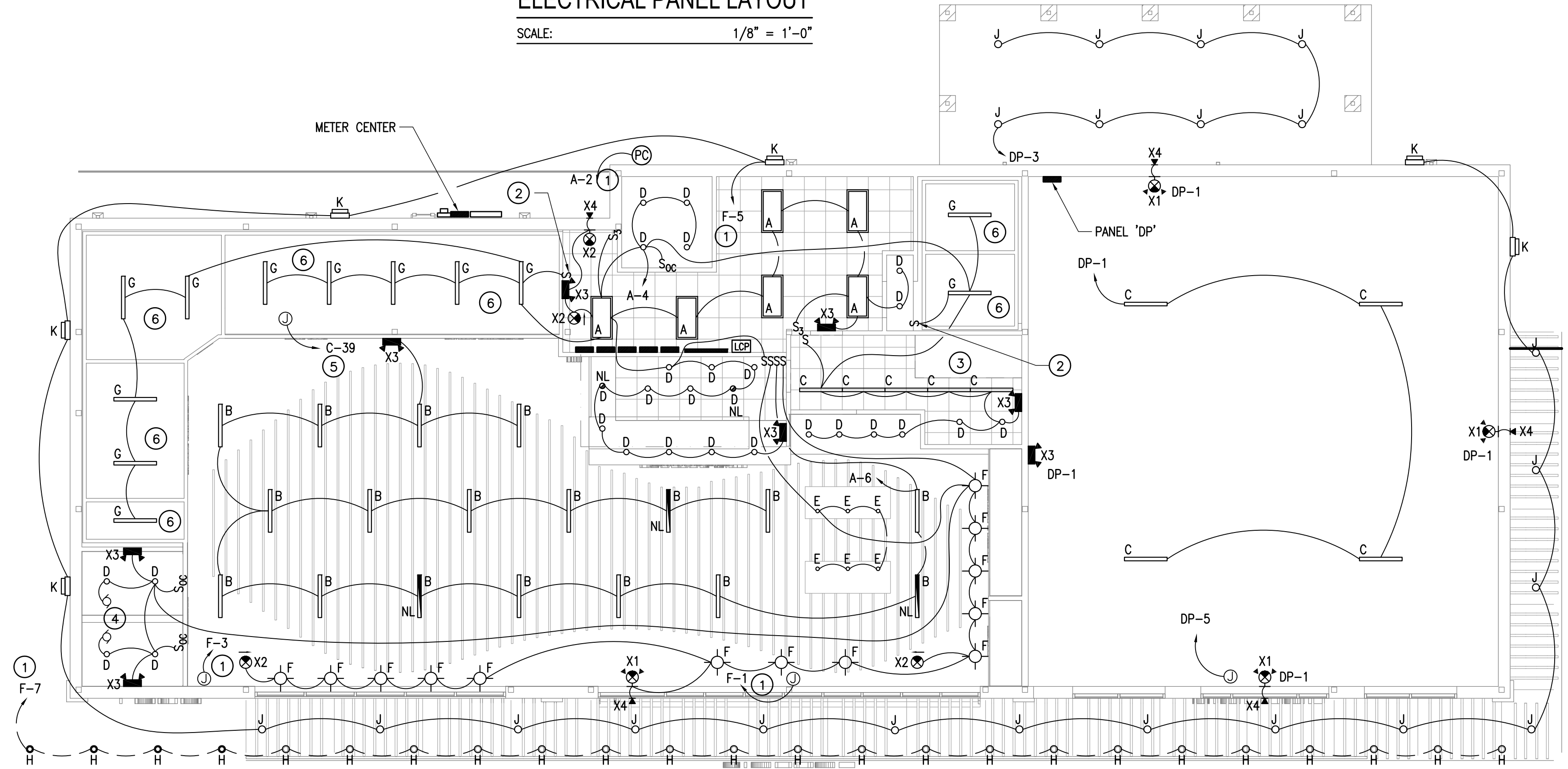
THESE CONSTRUCTION DOCUMENTS DO NOT INCLUDE THE DESIGN OF THE GAS PUMPS, CANOPY LIGHTING, SITE LIGHTING OR ANY EQUIPMENT OUTSIDE OF THE BUILDING ENVELOPE. ELECTRICAL PANEL 'F' HAS BEEN PROVIDED FOR THESE ADDITIONAL ELECTRICAL LOADS.

KEYNOTES

- ① PROVIDE 8 RELAY LIGHTING CONTROL PANEL WITH ASTRONOMICAL TIME CLOCK AND COMPATIBLE ELECTRONIC PHOTO CELL, CIRCUIT A-2 TO CONTROL THE FOLLOWING:
 - (A) BUILDING LIGHTS
 - (B) BOLLARD LIGHTS
 - (C) BUILDING SIGNAGE
 - (D) BUILDING SIGNAGE
 - (E) CANOPY LIGHTS (BY OTHERS)
 - (F) POLE LIGHTS (BY OTHERS)
 - (G) MONUMENT SIGNAGE (BY OTHERS)
 - (H) SPARE
- ② PROVIDE LIGHT SWITCH/THERMOMETER IF NOT SUPPLIED WITH MANUFACTURER. COORDINATE REQUIREMENTS WITH MANUFACTURER PRIOR TO CONSTRUCTION.
- ③ PROVIDE REPLACEMENT L.E.D. LAMPS FOR HOOD LIGHTS, CIRCUIT (A-14) NOT SHOWN.
- ④ SWITCH RESTROOM EXHAUST FANS WITH THE LIGHTS AS SHOWN.
- ⑤ PROVIDE CONNECTION TO COOLER DOOR LIGHTS (C-39) NOT SHOWN.
- ⑥ LIGHT FIXTURES ARE SHOWN FOR COOLER AND FREEZER LOCATIONS. PRIOR TO CONSTRUCTION, VERIFY WITH MANUFACTURER IF LIGHT FIXTURES ARE PROVIDED WITH COOLER AND FREEZER UNITS. REMOVE TYPE 'G' LIGHT FIXTURES AS NEEDED.



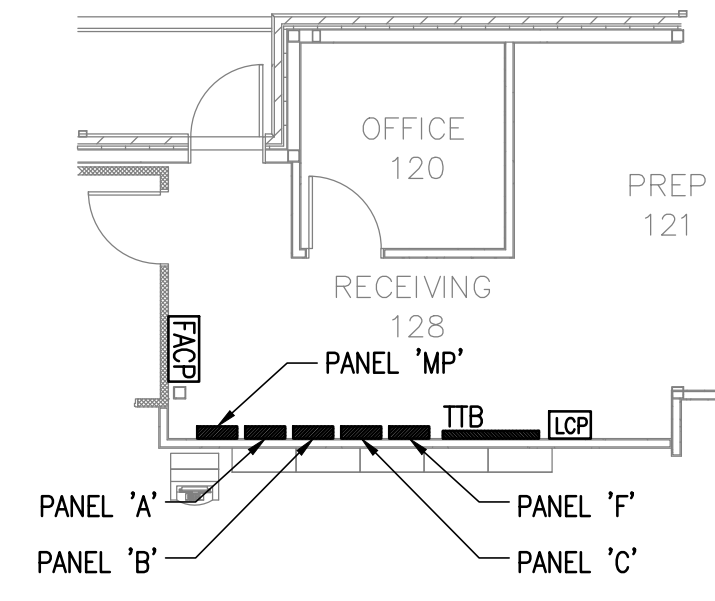
ELECTRICAL PANEL LAYOUT
SCALE: 1/8" = 1'-0"



ELECTRICAL LIGHTING FLOOR PLAN
SCALE: 1/8" = 1'-0"

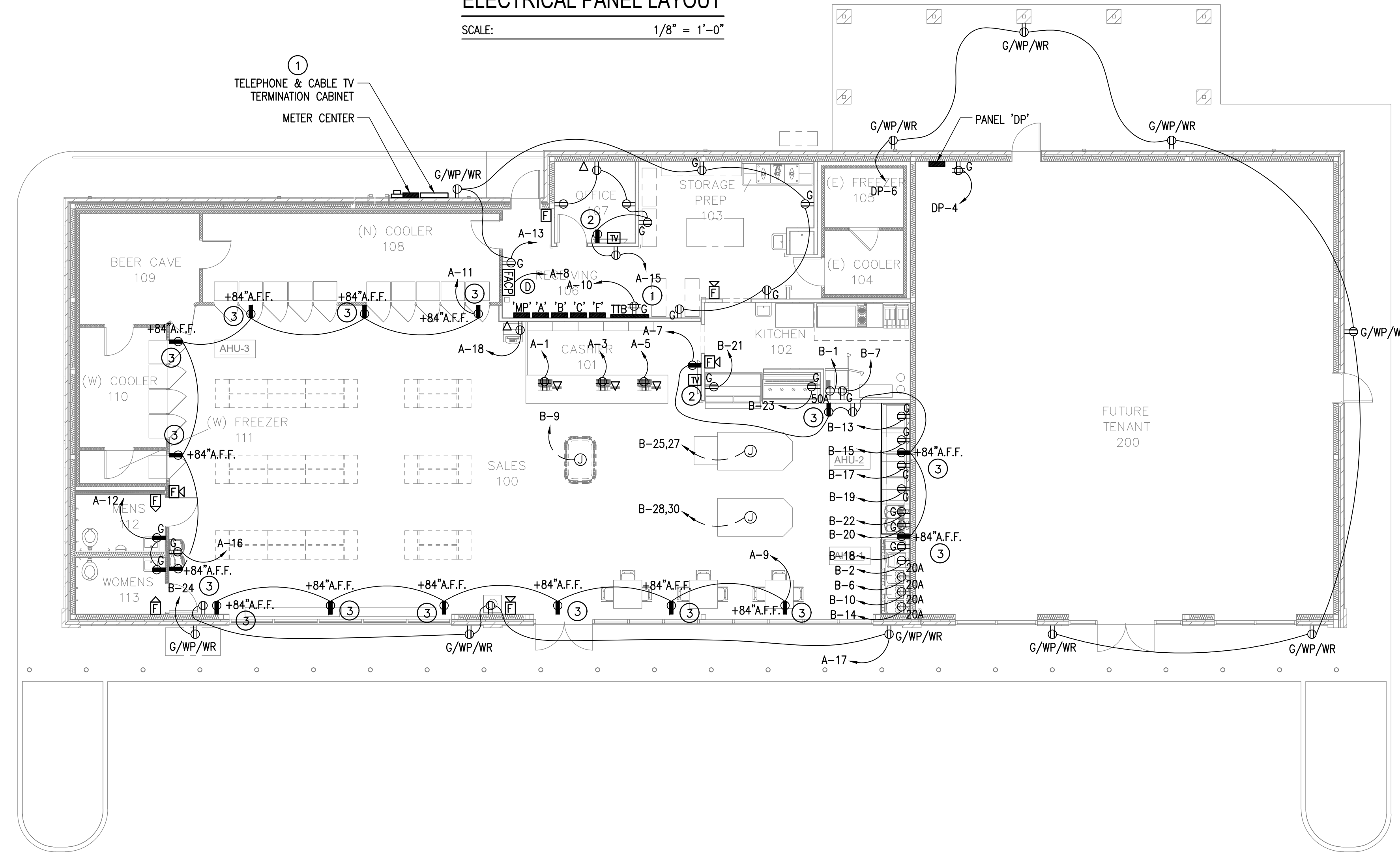
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Win ENGINEERING
2 International Plaza Suite 410 Nashville, TN 37217
Phone: 615-891-4565 | Fax: 615-250-0580
Project #04321



ELECTRICAL PANEL LAYOUT

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



ELECTRICAL POWER FLOOR PLAN

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

IMPORTANT NOTE

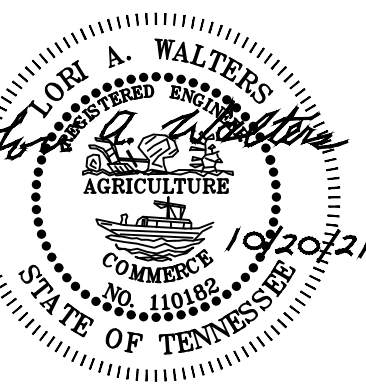
THESE CONSTRUCTION DOCUMENTS DO NOT INCLUDE THE DESIGN OF THE GAS PUMPS, CANOPY LIGHTING, SITE LIGHTING OR ANY EQUIPMENT OUTSIDE OF THE BUILDING ENVELOPE. ELECTRICAL PANEL 'F' HAS BEEN PROVIDED FOR THESE ADDITIONAL ELECTRICAL LOADS.

KITCHEN EQUIPMENT NOTE

VERIFY ALL KITCHEN EQUIPMENT ELECTRICAL REQUIREMENTS PRIOR TO CONSTRUCTION. ADJUST PANEL SCHEDULE, CIRCUIT BREAKERS, WIRING, ETC. AS REQUIRED.

KEYNOTES

- ① PROVIDE 2" EMPTY CONDUIT WITH PULL WIRE STUBBED UP IN TENANT SPACE FROM BUILDINGS TELEPHONE/CABLE TV TERMINATION CABINET.
- ② VERIFY LOCATION OF TV MONITOR AND ADJACENT RECEPTACLE WITH OWNER PRIOR TO CONSTRUCTION.
- ③ PROVIDE RECEPTACLE FOR VENDOR DISPLAY SIGNS AT OR ABOVE CEILING. VERIFY RECEPTACLE LOCATIONS WITH OWNER PRIOR TO CONSTRUCTION.



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ELECTRICAL POWER FLOOR PLAN

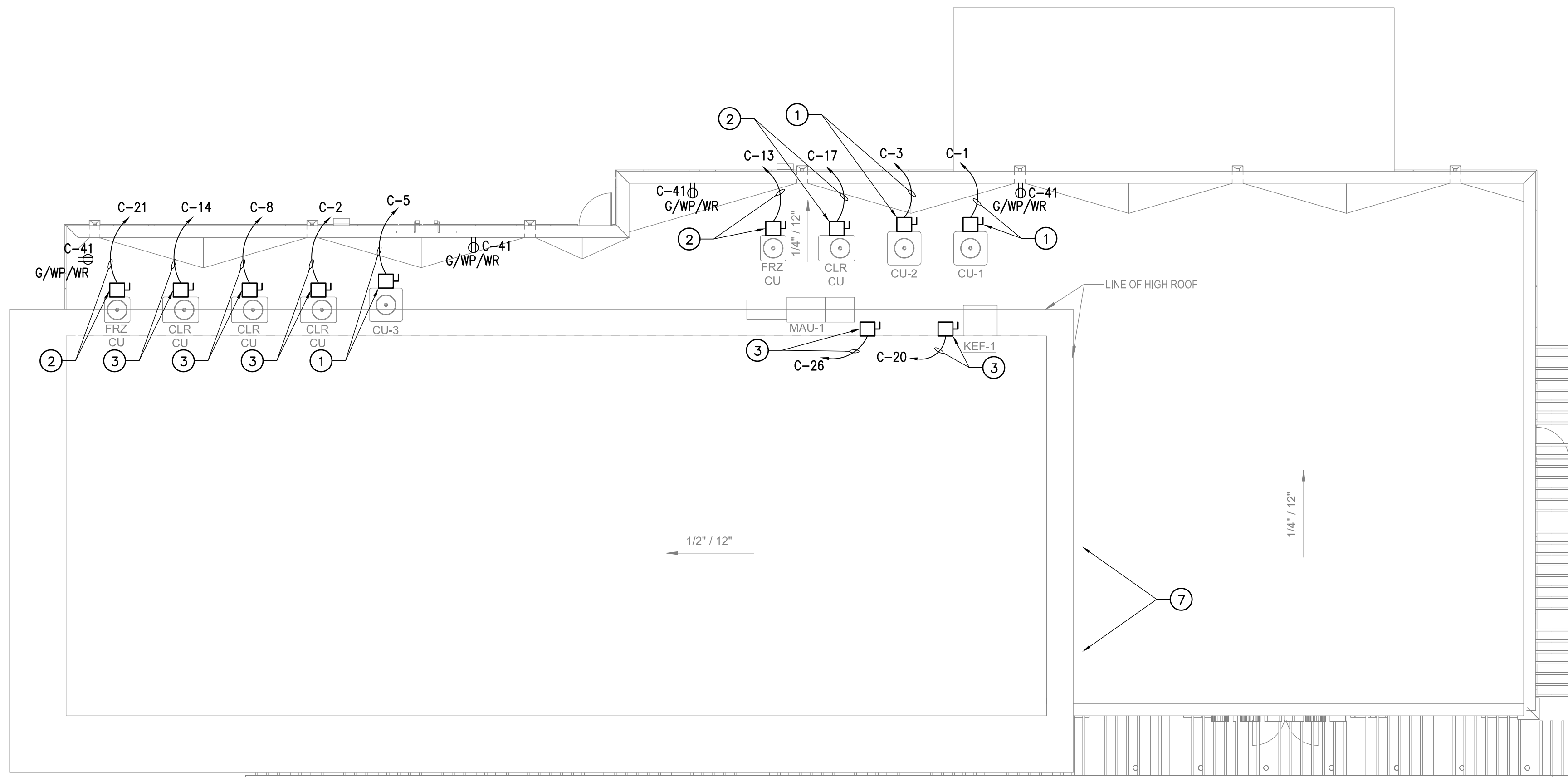
E-102

ITEM # 4.

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2 International Plaza Suite 410 Nashville, TN 37217
Phone: 615-891-4565 | Fax: 615-250-0580
Project #04321

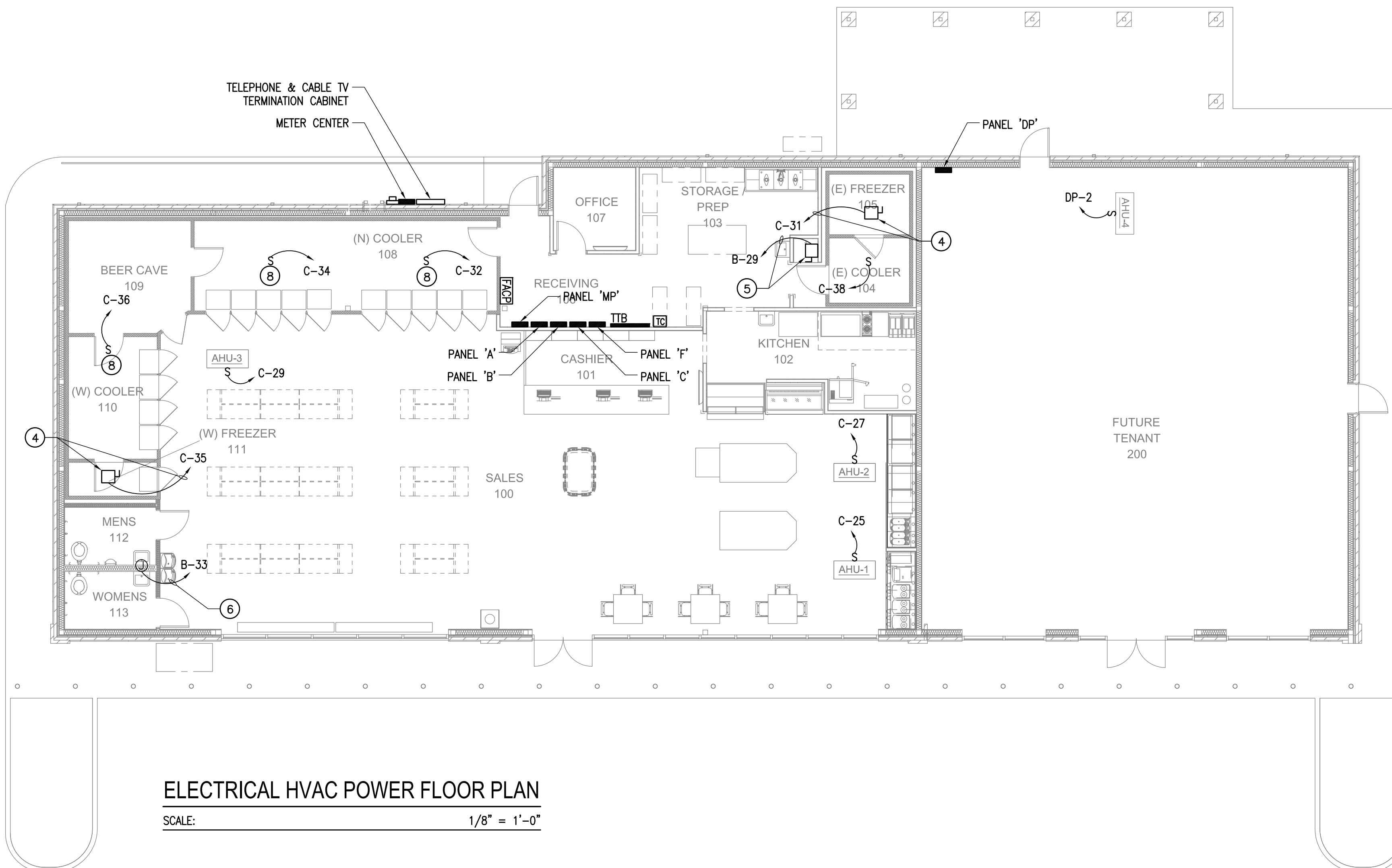


KEYNOTES

- ① PROVIDE 240V/2P/60A/3R DISCONNECT SWITCH WITH (2)#8, (1)#10G, 3/4" C.
- ② PROVIDE 240V/2P/30A/3R DISCONNECT SWITCH WITH (2)#12, (1)#12G, 3/4" C.
- ③ PROVIDE 240V/3P/30A/3R DISCONNECT SWITCH WITH (3)#12, (1)#12G, 3/4" C.
- ④ PROVIDE 240V/2P/30A DISCONNECT SWITCH WITH (2)#12, (1)#12G, 3/4" C.
PROVIDE 240V/2P/30A DISCONNECT SWITCH WITH (2)#10, (1)#10G, 3/4" C.
- ⑥ PROVIDE (2)#12, (1)#12G, 3/4" C FOR IWH.
- ⑦ PROVIDE OPTIONAL LINEAR LUMINAIRE (LED LINEAR – ADONIS IP67), UNDER OVERHANG. CONNECT (F-7) AND TO BUILDINGS EXTERIOR LIGHTING CONTROLS. VERIFY LENGTH OF RUN WITH OWNER & G.C. PRIOR TO CONSTRUCTION.
- ⑧ COOLER EVAPORATORS ARE NOT SHOWN, PROVIDE 120V, 20A SWITCHES WITH NEMA 3R ENCLOSURE.

ELECTRICAL HVAC POWER ROOF PLAN

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



ELECTRICAL HVAC POWER FLOOR PLAN

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

DHAVAL PATEL
0 Old Hydes Ferry Pike, Ashland City, TN 37015

CLIENT CONTACT:
DHAVAL
665-598-5887
dhavalom@gmail.com



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ELECTRICAL HVAC
POWER ROOF &
FLOOR PLANS

E-103

ITEM # 4.

