

GENERAL NOTES:

1. Owner is responsible for the engineering and production (by licensed individuals) of Civil, Car Wash Equipment & Alarm system drawings:

a. as necessary to meet requirements of this project.

b. as requested by the Owner to meet specific requirements as determined by the Owner. Exact locations, circuiting, voltage & configurations of electrical car wash equipment items to be determined by Contractor from Owner.

c. as required by the local authorities.

2. All work shall comply with applicable local and municipal codes as well as with any and all regulatory agencies including, but not limited to, OSHA, etc. The General Notes apply to all drawings.

3. Design & installation of Structural, Mechanical, Electrical, Plumbing, Alarm & Equipment systems shall comply with International Bldg Code (IBC) standard codes, SMACNA, ASHRAE & applicable industry standards. Systems design shall be coordinated with each other, with existing utilities, & with the work indicated in these documents.

4. All materials shall be contractor provided and installed, unless noted otherwise.

5. Unless noted otherwise, Contractor shall provide all new, first-class materials and products, installed in a workman-like manner, complete with indicated finishes, plumb, true and adequate for the intended use.

6. The CONTRACTOR is SOLELY responsible for the means and methods of construction for this project. This includes, but is not limited to, job site safety, coordination of all materials, dimensions & trades, liability insurance and builder's risk insurance.

7. Contractor shall verify existing field conditions, dimensions and details prior to construction and shall notify the Owner / Architect of any discrepancies or omissions which will interfere with the satisfactory completion of the work.

8. Contractor shall schedule all work provided by the Owner and shall provide the Owner with ample lead-time to schedule this work. Examples include: telephone system, computer network, alarm system, stereo system, etc.

9. Caulk all joints at frames, counters, etc. with standard products suitable for the intended use.

10. Contractor shall coordinate keying requirements with the Owner.

11. Maintain exit egress at all times.
12. Protect new & existing work during construction.

13. DO NOT SCALE DRAWINGS. Dimensions govern.

14. Dimensions are face of finish to face of finish (clear), unless noted otherwise.

15. Partitions are located on centerline of mullions and columns or face of columns and existing walls, unless noted otherwise.

16. Signage shall be provided by the owner and is outside the scope of these documents.

17. Contractor shall dispose of all waste / demolished materials in a safe manner and in compliance with applicable laws and regulations. Maintain an orderly, neat & clean job site at all times.

18. Contractor shall test and balance the HVAC system. All discrepancies shall be corrected by the Contractor to the satisfaction of the Owner.

19. These drawings are intended to show the scope of work for the G.C.'s design build project and DO NOT include all of the detailed information required to construct this project. The G.C. and Owner are responsible for the construction details of this project.

20. Contractor shall visit the project area / site prior to submitting a project cost for approval and shall include all work that can reasonably be inferred from these documents as required to provide a complete, functional project adequate for its intended use.

21. These drawings rely upon the information provided to the Architect by the Owner. Any additional work associated with conditions which are discovered during construction shall be submitted with pricing for approval by the Owner / Architect ~~PRIOR~~ to performing any additional work.

22. Should unusual or unstable soil conditions be encountered, the Contractor shall immediately cease work and notify the Owner of the condition(s), possible solution(s) and estimated costs.

23. Contractor shall submit all substitutions to the Owner for consideration / approval. NO substitutions will be accepted without prior approval.
24. These drawings rely upon the information provided to the Architect by the Owner and Contractor. Any work associated with conditions which were not disclosed or are discovered during construction is expressly the responsibility of the Owner and Contractor.

25. The Contractor & Landlord / Owner are expressly responsible for accurately locating and avoiding damage to concealed utility lines (elec, tel, gas, data, alarm, water, sewer, etc.) or other existing work that is to remain undisturbed.

26. Architectural drawings are intended to show the scope of work for the Contractor's Design-Build project. The G.C. and Owner are responsible for the selection of materials, finishes and colors for this project.

27. Contractor shall collect manufacturers' instruction manuals, installation manuals, warranties, recommended maintenance schedules, etc. for each piece of equipment, system, fixture, finish material, etc. and shall provide this documentation to the Owner with the final request for payment.

28. Contractor shall schedule a day with the Owner after substantial completion and prior to the final request for payment to instruct the Owner in the operation and maintenance of all equipment, systems and finish materials contained in the project. Contractor shall have available at the project site people knowledgeable in the operation & maintenance of all aspects of the project on this day.

29. Contractor shall submit a list of all subcontractors (company name, address, telephone number and name of person responsible for the work) stating what work each performed and shall provide a release of liens from each (including the general contractor) with the final request for payment.

30. Contractor shall provide a one year guarantee against defect in material and workmanship.

31. Contractor is responsible for, and shall include, all required permits, fees, utility tap fees, licenses, etc. required to complete the Work and provide a fully operational project.

32. Contractor shall provide the Owner with a neat set of as-built drawings with the final request for payment.

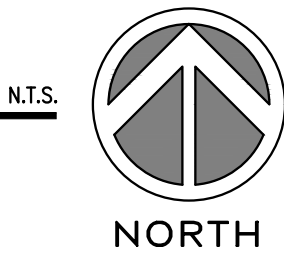
33. These drawings assume that the site is suitable for its intended use using industry standard practices and materials. The Owner and Contractor are responsible for determining the suitability of the site for this project.

CAR WASH EQUIPMENT: Equipment design & installation by others. Equipment supplier is responsible for coordinating the equipment with the work shown in these documents and applicable codes.

CIVIL ENGINEERING: See Civil Engineering drawings by others. All aspects of the site work for this project are the responsibility of the Civil Engineer.



01 SITE LOCATION PLANS



A New Car Wash For



WASH-RITE Express
Unlimited Car Wash
Mt Dechantal Rd at Hunter Ave
Ohio County, Wheeling, WV 26003

OWNER:
WASH-RITE Express
Unlimited Car Wash
5050 Warm Springs Road
Columbus, GA 31909
706.681.4536 voice
chrissie@unlimitedcw.com
rogerbeck28@gmail.com

ARCHITECT:
Gary A. Nash, Architect
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Birmingham, AL 35233
205.322.7482 voice
gnash@dadot.com

PLUMBING & MECHANICAL ENGINEER:
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205.979.1232 voice
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ken@michaelseng.com

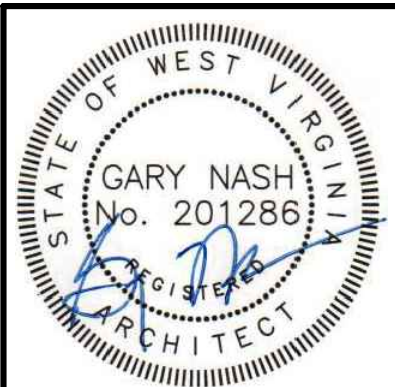
STRUCTURAL ENGINEER:
L B Y D
716 South 30th Street
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www.lbyd.com
rwhyte@lbyd.com

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www.hyde-egr.com
rusty@hyde-egr.com

SHEET INDEX

See also: Civil Engineering & Equipment drawings by Others

SHT. NO.	SHEET DESCRIPTION	SHT. NO.	SHEET DESCRIPTION	SHT. NO.	SHEET DESCRIPTION
ARCHITECTURAL:		STRUCTURAL:		MECHANICAL:	
A1.0	Title Sheet	S1	General Notes	M1.0	Schedules, Calculations & Specifications
A1.1	Architectural Site Plan	S1A	General Notes Continued	M2.0	Floor Plan & Details
A1.2	Standard Site Details	S2	Typical Details	ELECTRICAL:	
A1.3	Standard Site Details	S3	Typical Details	E0.1	Legends, Notes & Fixture Schedule
A2.0	Life Safety Plan & Project Information	S4	Foundation & Roof Plan	E0.2	Riser Diagram
A2.1	Floor Plans	S5	Sections	E0.3	Panel Schedules & Equipment Schedule
A2.2	Reflected Ceiling Plan, Partition Schedule	S6	Sections	E0.4	Details
A3.0	Schedules & Details	S7	Schedule of Special Inspections	E1.1	Site Plan
A4.0	Exterior Elevations	PLUMBING:		E2.1	Lighting Plan
A4.1	Exterior Elevations	P1.0	Schedules & Specifications	E2.2	Power & Auxiliary Plan
A5.0	Building Section & Details	P2.1	Gravity Piping Plan		
A5.1	Building Section	P2.2	Pressure Piping Plan		
A5.2	Details	P3.0	Riser Diagrams & Details		



REVISIONS:
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PROJECT TITLE:
WASH-RITE Express Car Wash
Mt Dechantal Rd at Hunter Ave, Wheeling, WV 26003

SHEET TITLE:
TITLE SHEET
GENERAL NOTES
SITE LOCATION PLAN

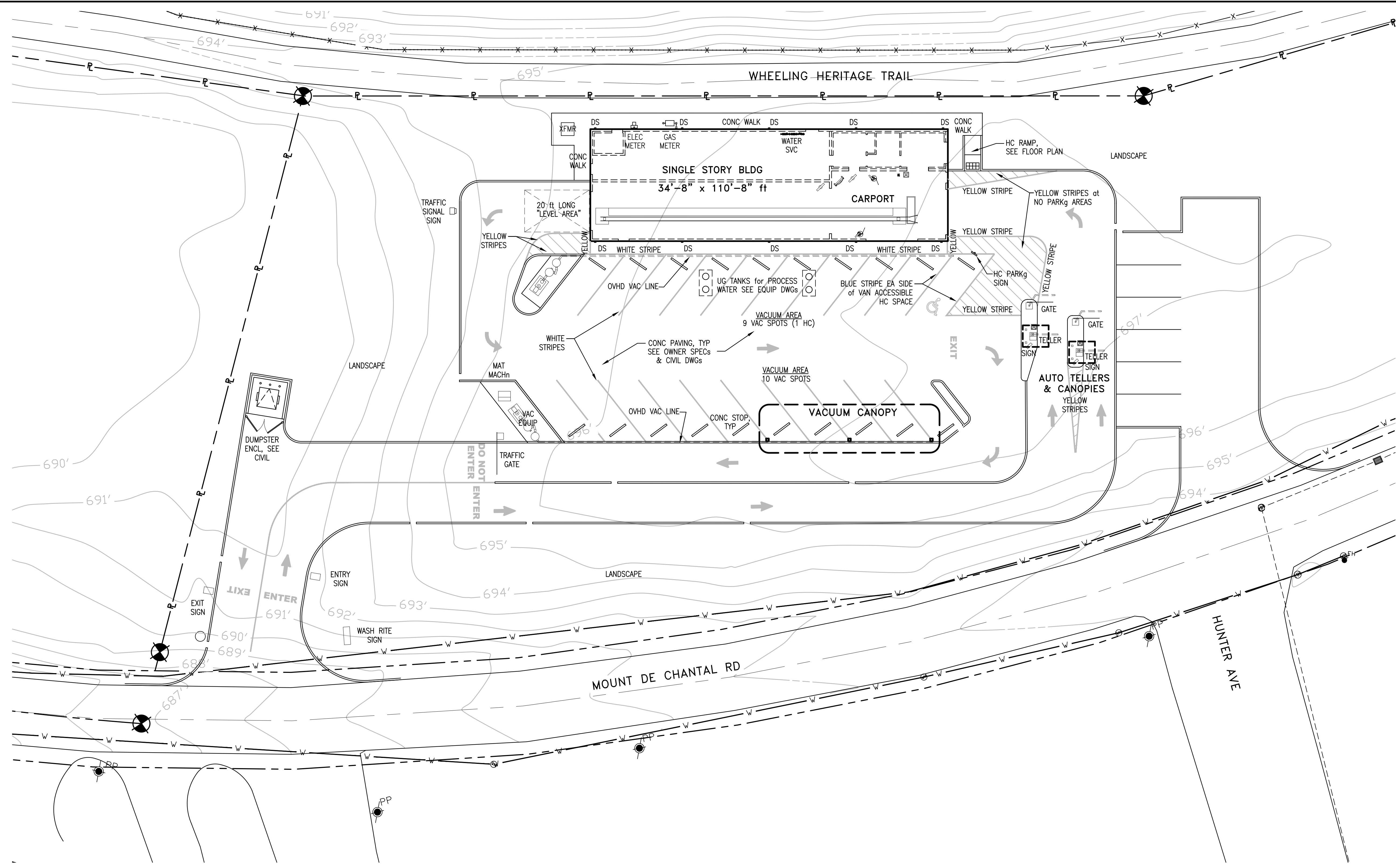
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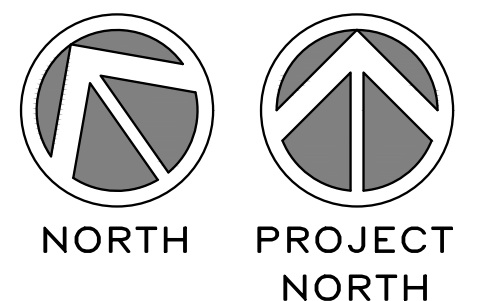
GARY A. NASH
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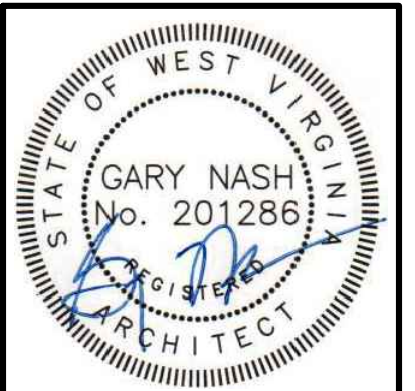
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A1.0
XX of XX



01 ARCHITECTURAL SITE PLAN SCALE: 1/16" = 1'-0"
SEE CIVIL ENGINEERING DRAWINGS by OTHERS



SEE CIVIL DWGs
by OTHERS for FINAL
SITE LAYOUT,
UTILITIES & DETAILS



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WASH-RITE Express Car Wash

Mt Dechantal Rd at Hunter Ave, Wheeling, WV 26003

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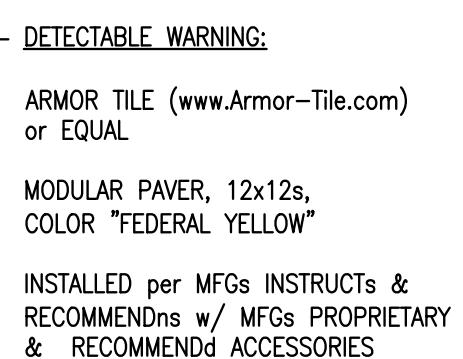
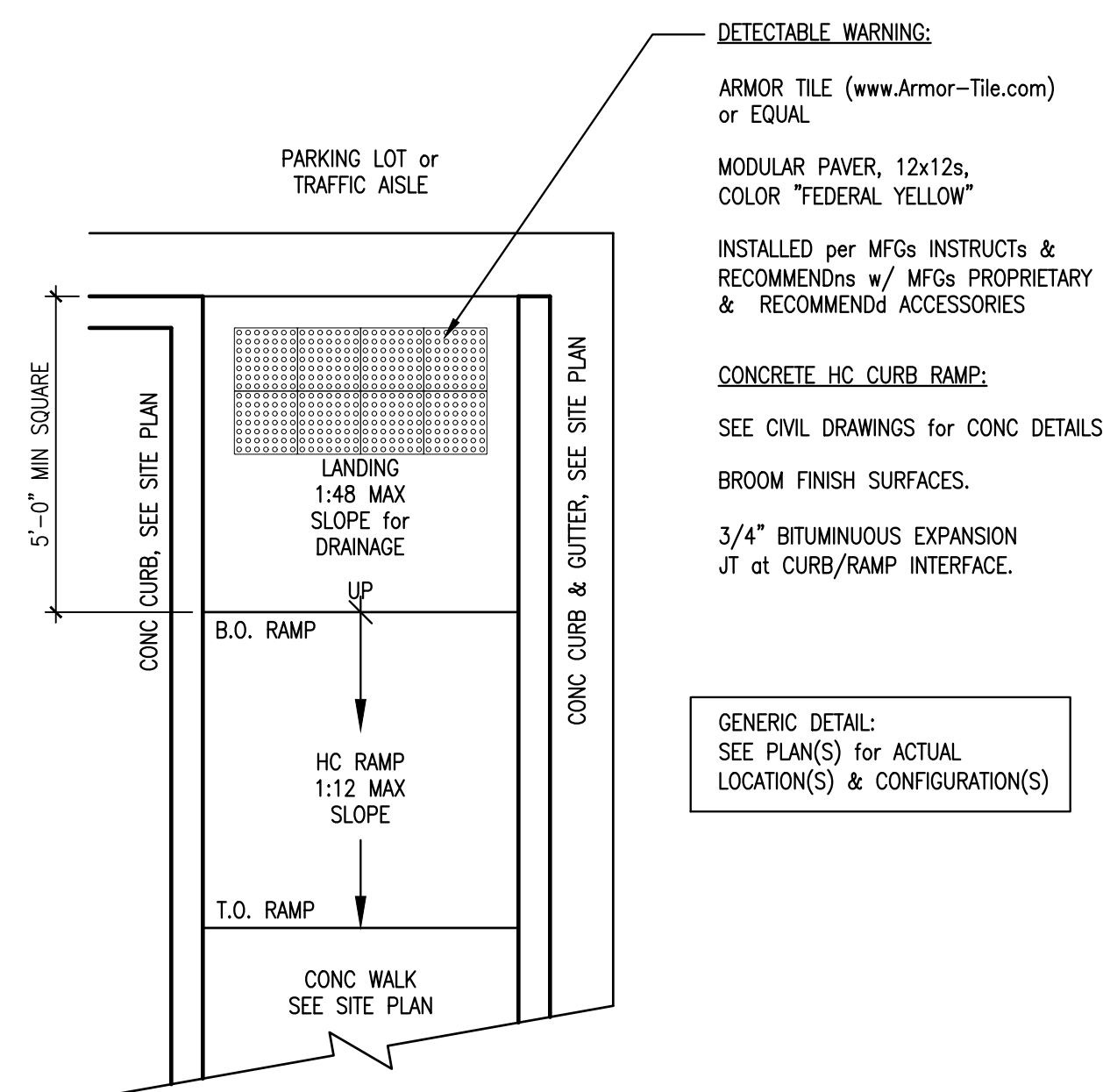
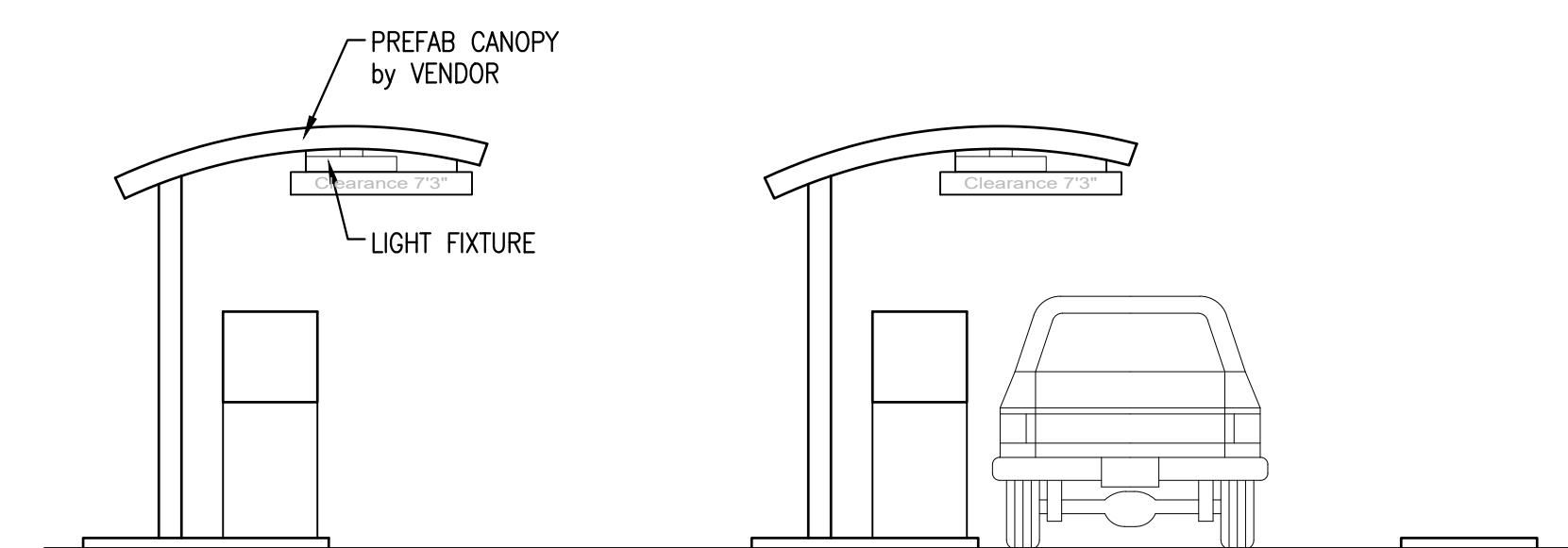
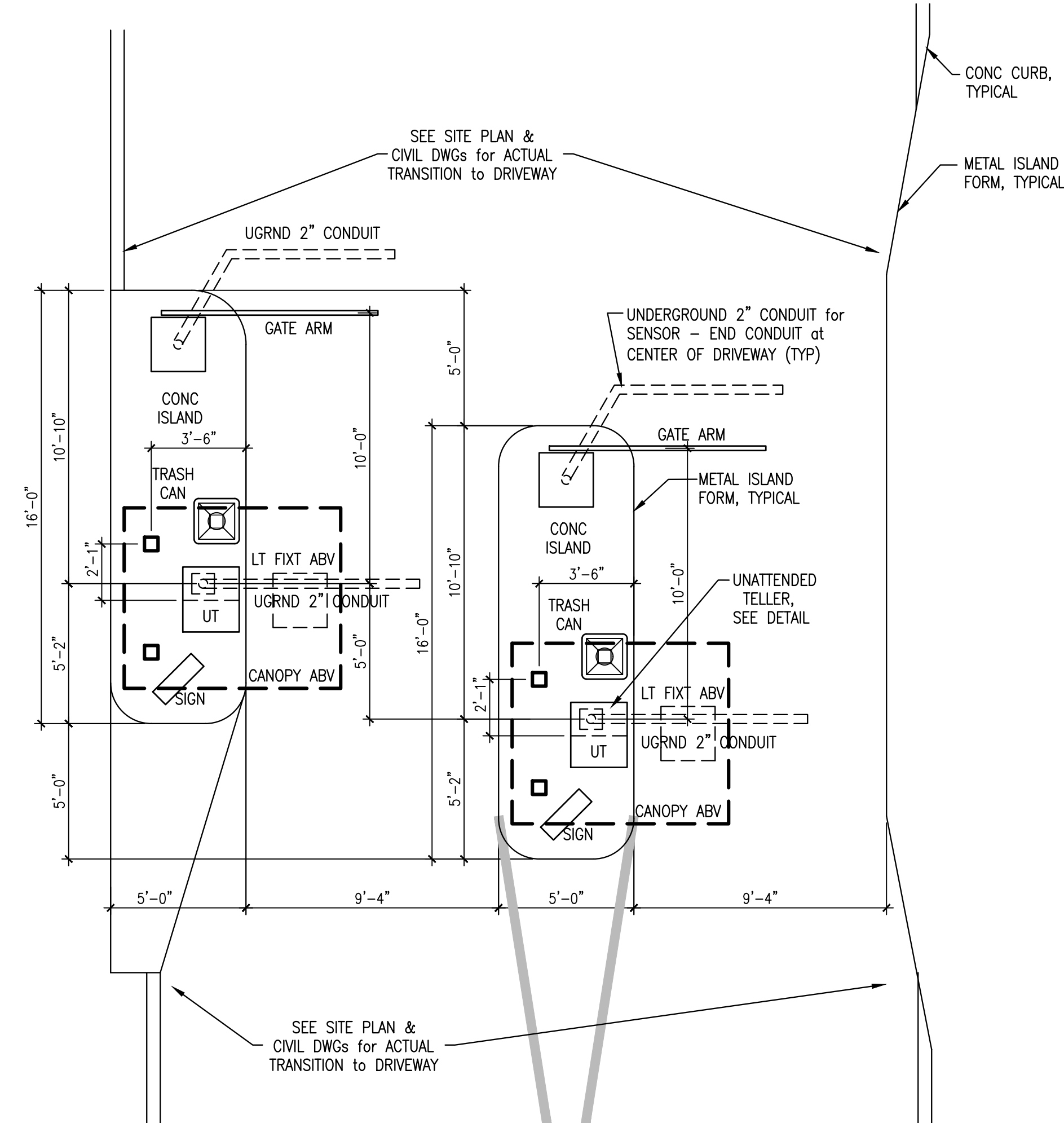
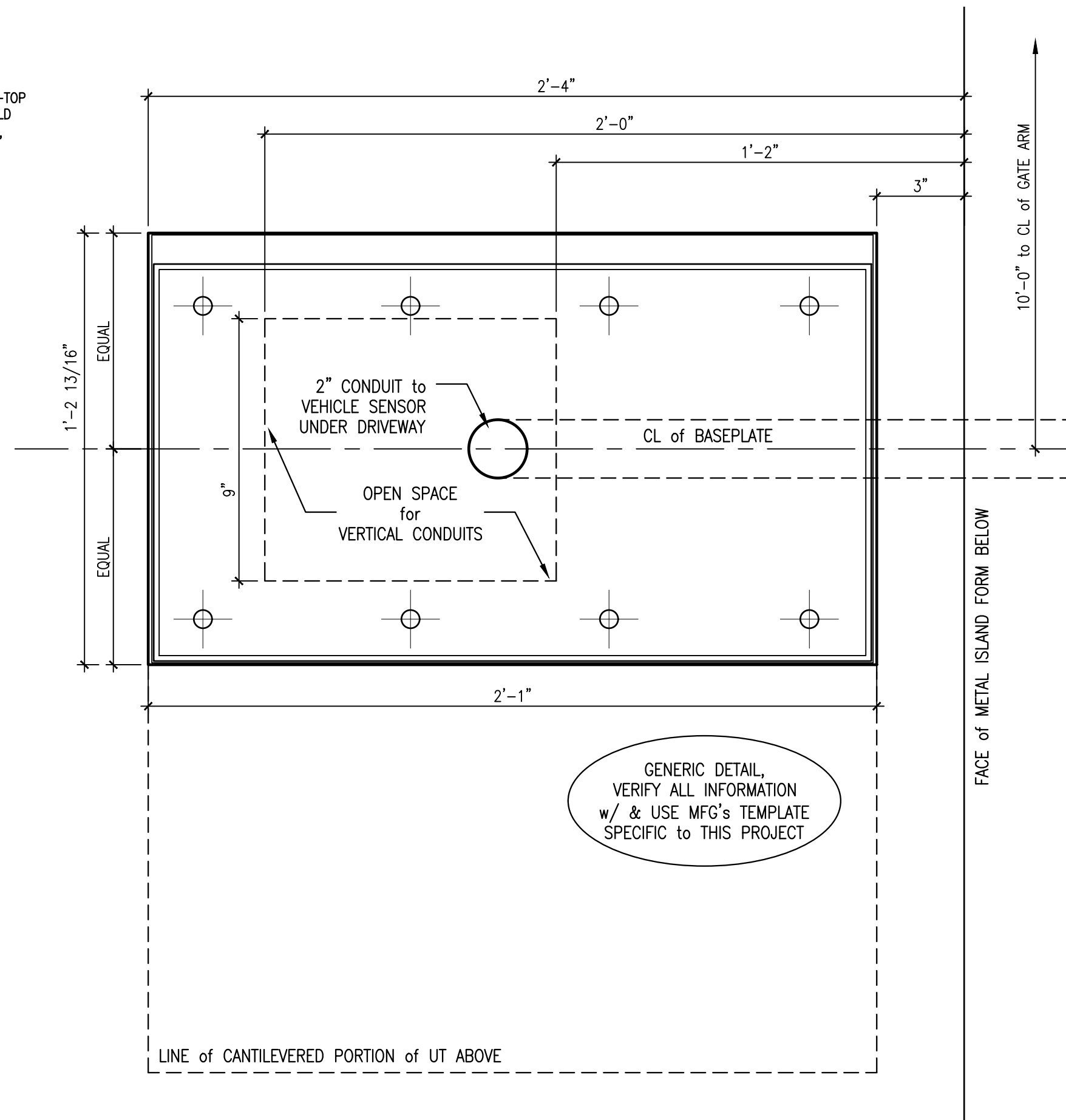
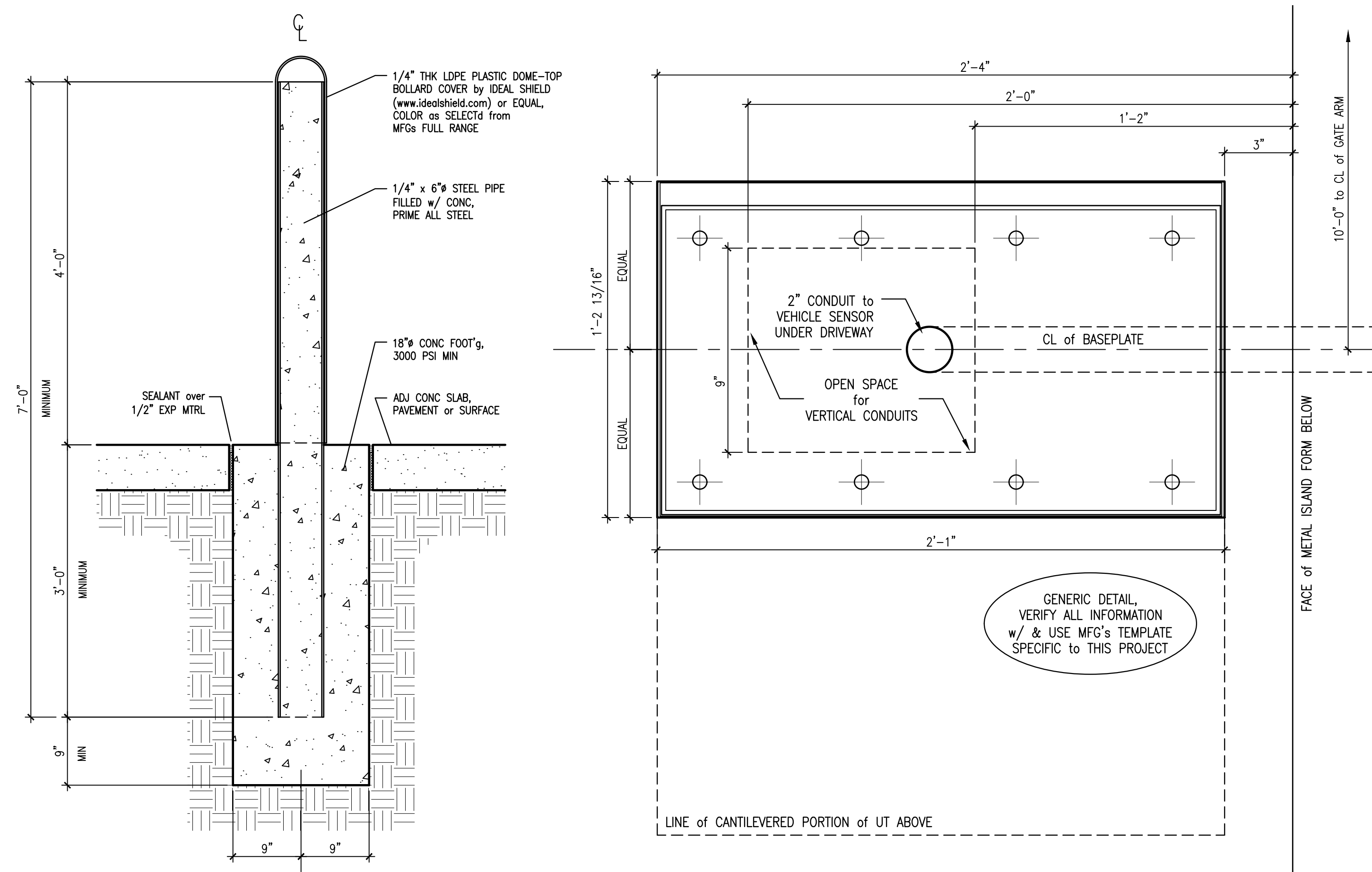
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SHEET TITLE:	
ARCHITECTURAL SITE PLAN	
COMMISSION NUMBER: 4044.02	
DATE: 30 SEP 2025	
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XX of XX



2015 INTERNATIONAL ENERGY CONSERVATION CODE (IECC):

Contractor & Owner shall insure that all assemblies and products selected & provided for this project meet the requirements of the 2015 IECC.

Coordinate assemblies and products with each other as required.

All materials, assemblies, fixtures, equipment, etc. shall be installed per industry standard practices and manufacturer's instructions & recommendations as required to achieve the published energy performance.

See also, Sections & sheets A5.0 & A5.1.

See also, Plumbing, Mechanical & Electrical Engineering drawings

C101.4 Applicability

Comply with the applicable section(s) of this part as to what portion(s) of the work in this project are subject to compliance with the IECC, generally:

New building(s) building systems shall comply with the provisions of the IECC.

C301.1 Climate Zone: 5A

CHAPTER 4 COMMERCIAL ENERGY EFFICIENCY

Table C402.1.3 OPAQUE THERMAL ENVELOPE REQUIREMENTS

The GC shall provide insulation for the conditioned areas of this project with minimum R-Values as follows:

Attic:	R-38
Walls abv Grade:	R-13 + R-3.8 Continuous Insulation OR R-20
Walls blw Grade:	N/A
Unheated Slab on Grade:	R-10 for 24" below
Opaque Doors:	Swinging U-0.37

Insulation	XPS rigid foam, Owens Corning "FOAMULAR 250" at 2" = R-10.0 (slab)
Material	Cellulose, R-3.8/in (attic & walls)
R-Values:	8" Concrete Block, R-1.11 (walls)

Table C402.4 Building Envelope (conditioned space), Fenestration

Maximum Vertical Fenestration	=	40% of Above Grade Walls
Actual Fenestration	=	20% ± of Above Grade Walls

Fixed Fenestration:	U-0.38
Operable Fenestration:	U-0.45
Entrance Doors:	U-0.77

SHGC All Frames:	0.40
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C402.5 Air Leakage (MANDATORY)

GC SHALL insure materials, assemblies, fixtures, equipment, etc. meet the requirements for air leakage under this section including

C402.4.1 Air Barriers
C402.4.3 Fenestration
C402.4.5 Air Intakes, Exhaust Openings, Stairways & Shafts

C403 Building Mechanical Systems

GC shall comply with the mandatory requirements of this section & shall provide the testing, documentation and compliance reports as required by the Building Official. See Mechanical Drawings &/or Specifications

C404 Service Water Heating

GC shall comply with the mandatory requirements of this section & shall provide the testing, documentation and compliance reports as required by the Building Official. See Plumbing Drawings &/or Specifications

C405 Electrical Power & Lighting Systems

GC shall comply with the mandatory requirements of this section & shall provide the testing, documentation and compliance reports as required by the Building Official. See Electrical Drawings &/or Specifications

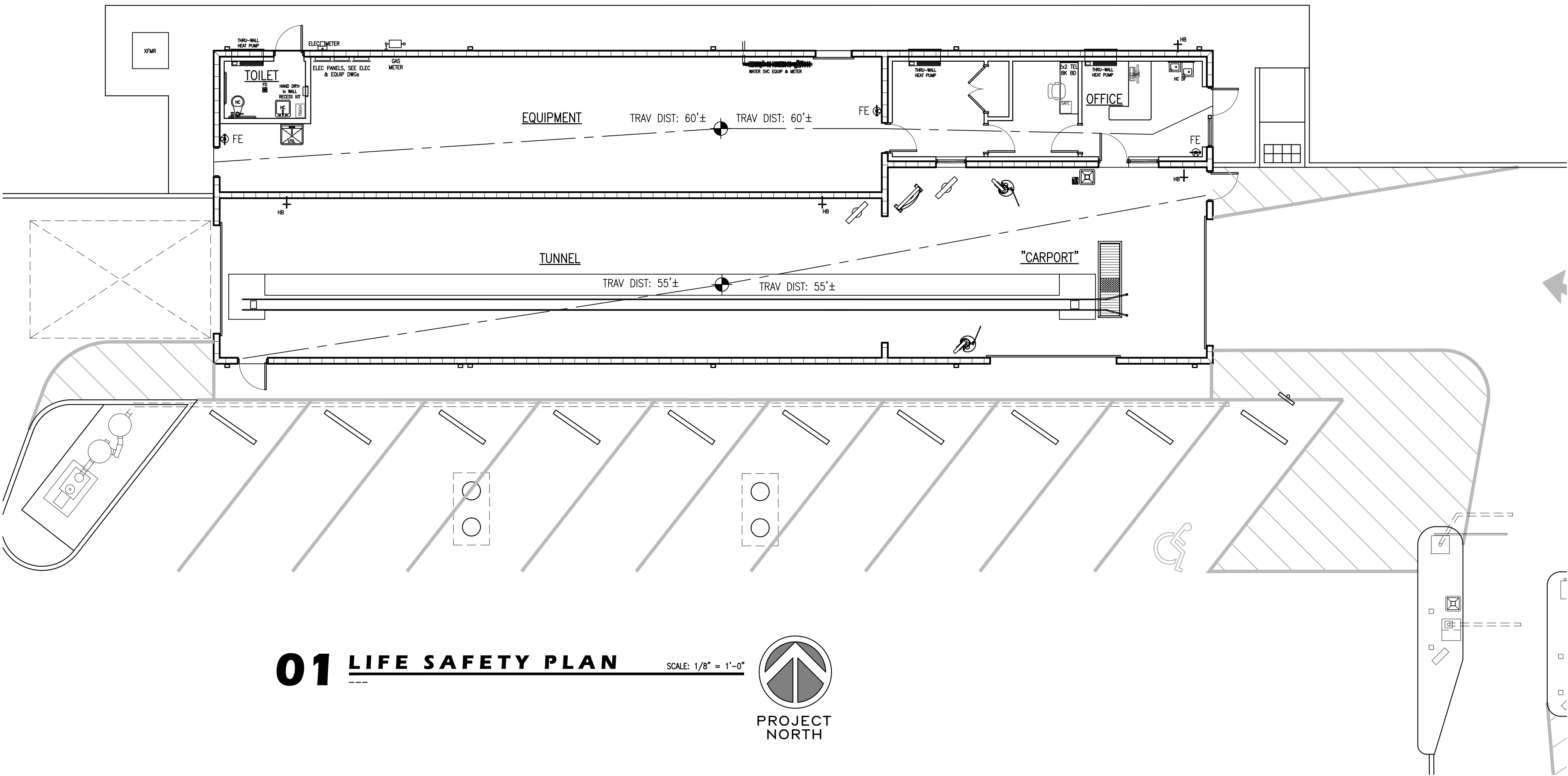
C406 Additional Efficiency Package Options:

GC shall comply with the mandatory requirements of this section & shall provide the testing, documentation and compliance reports as required by this section & the Building Official. This project is designed to utilize the Efficient Lighting System option. See Electrical Drawings &/or Specifications.

C407 Total Building Performance

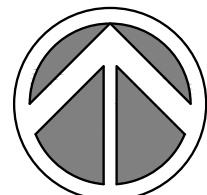
GC shall comply with the mandatory requirements of this section & shall provide the testing, documentation and compliance reports as required by this section & the Building Official.

OWNER'S OPTION: Alternate materials/assemblies that provide the required energy performance may be substituted for those specified in these drawings upon approval of the Owner PRIOR to ordering materials or beginning the work.



01 LIFE SAFETY PLAN

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



CONSTRUCTION ADMINISTRATION NOTICE:

The Owner has hired local inspectors to perform the required Special Inspections.

The Architect has NOT been hired to perform Construction Administration Services.

PROJECT INFORMATION

PROJECT DESCRIPTION: New building for an automated carwash.

Building Codes: 2018 International Building Code
2015 International Energy Conservation Code

Sprinkler System: Building is NOT fully sprinklered

Use & Occupancy: IBC 304, Group B, Business

Construction Type: IBC 602, Type V B

Building Area:..... 3,836 s.f.

"Carport" Gross Area:..... 745 s.f.
Office Gross Area:..... 363 s.f.
Equipment Room Gross Area:..... 1,025 s.f.
Tunnel Gross Area:..... 1,296 s.f.

TBL 504.3 Allowable UNSPRINKLERED Hgt & Bldg Area:
2 stories, 9,000 s.f. each, 40' high

1704 Special Inspections: Special Inspections are the responsibility of, & shall be provided by, the Owner.

Anticipated Special Inspections required: See Structural drawings

REQUIRED FIRE RATED CONSTRUCTION:

Building Element:	Protection:	Open'gs TBL 715.3:
Structural Frame	0 hr	
Bearing Walls		
Exterior	0 hr	
Interior	0 hr	
Non-Bearing Interior Walls	0 hr	
Floor Construction	0 hr	
Roof Construction	0 hr	

TBL 602 Exterior Walls:
0-10 ft 1 hr 3/4 hr
10 + ft 0 hr 0 hr

705.8.1 & TBL 705.8 Max Area of Exterior Wall Open'gs: Unprotected/Protected
Exception 2: NL / NL

707 Fire Barriers: N/A

720 Thermal & Sound Insulating Materials: Insulating materials shall comply w/ this & other applicable sections.

Chp 8 Interior Wall & Ceiling Finish Requirements: All finish materials shall comply w/ this & other applicable sections.

TBL 803.13 Rooms & Other: Class C

903 Automatic Sprinkler Systems: NOI required
906 Portable Fire Extinguishers: Provide 10lb ABC FEs, see Life Safety Plan.
907 Fire Alarm & Detection Systems: 907.2.2 Fire Alarm System NOI required

1004 Occupant Load, TBL 1004.1.2: Office at 1/150 = 03 people
Tunnel & Equip at 1/300 = 08 people
Total = 11 people

1008 Egress Illumination: Egress Illumination shall comply w/ this & other applicable sections. See also Electrical drawings & Reflected Ceiling Plan.

1010 Door, Gate & Turnstiles shall comply w/ this & other applicable sections.

1012 Ramps shall comply w/ this & other applicable sections.

1013 Exit Signs shall comply w/ this & other applicable sections. See also Electrical drawings & Reflected Ceiling Plan.

1016 Exit Access shall comply w/ these & other applicable sections.

1017 TBL 1017.2 Max Travel Dist: Allowed: 200' Actual: 60'±
Minimum Number of Exits: Required: 2 Provided: 2
1006.2.1

Minumum Distance Between Exits: 1017.1.1 45'± 100'±

2902.2 Minimum Plumbing Facilities: (except 2)
Required: WCs 1 LAVs 1 DFs
Provided: 1 1 1



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WASH-RITE Express Car Wash
Mt Dechantal Rd at Hunter Ave, Wheeling, WV 26003

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SHEET TITLE:

PROJECT INFORMATION

LIFE SAFETY PLAN

COMMISSION NUMBER: DATE:

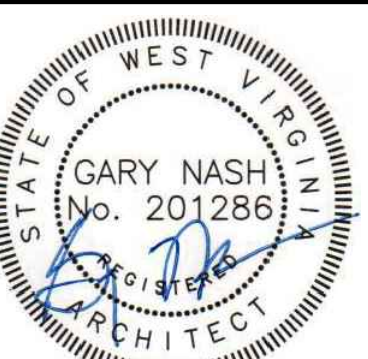
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WASH-RITE Express Car Wash

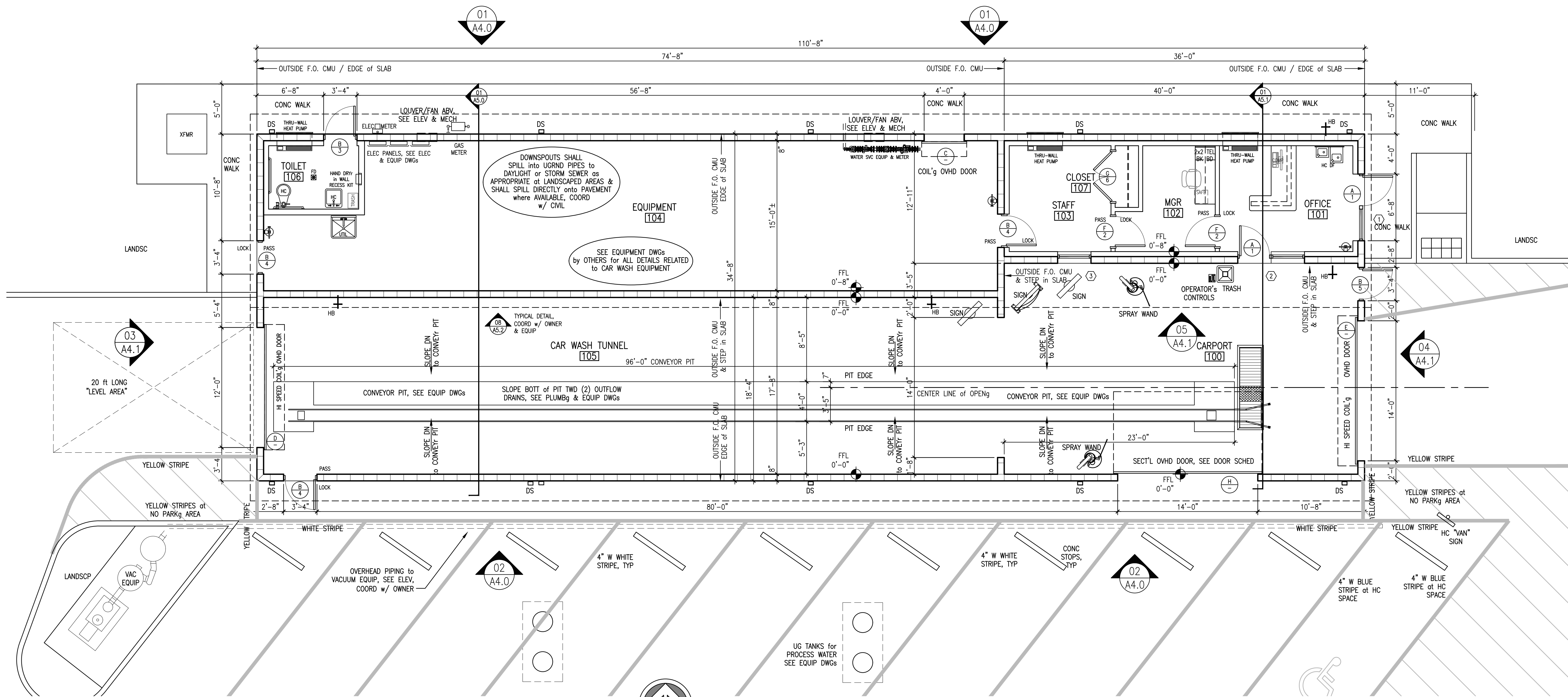
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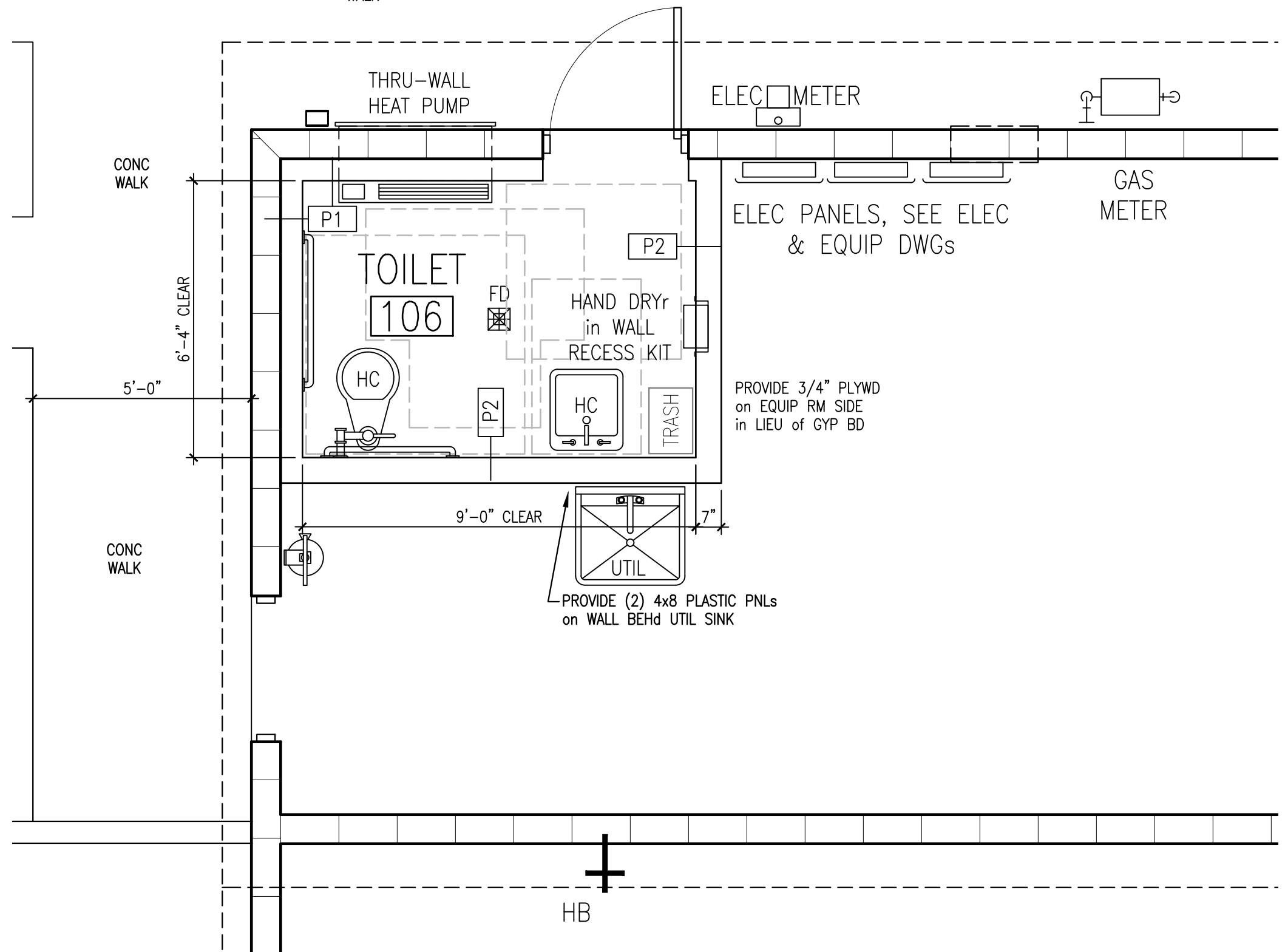
PROJECT TITLE	
FLOOR PLANS	
COMMISSION NUMBER: 4044.02	
DATE: 30 SEP 2025	
DRAWN BY:	
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SHEET NUMBER
A2.1
XX OF XX



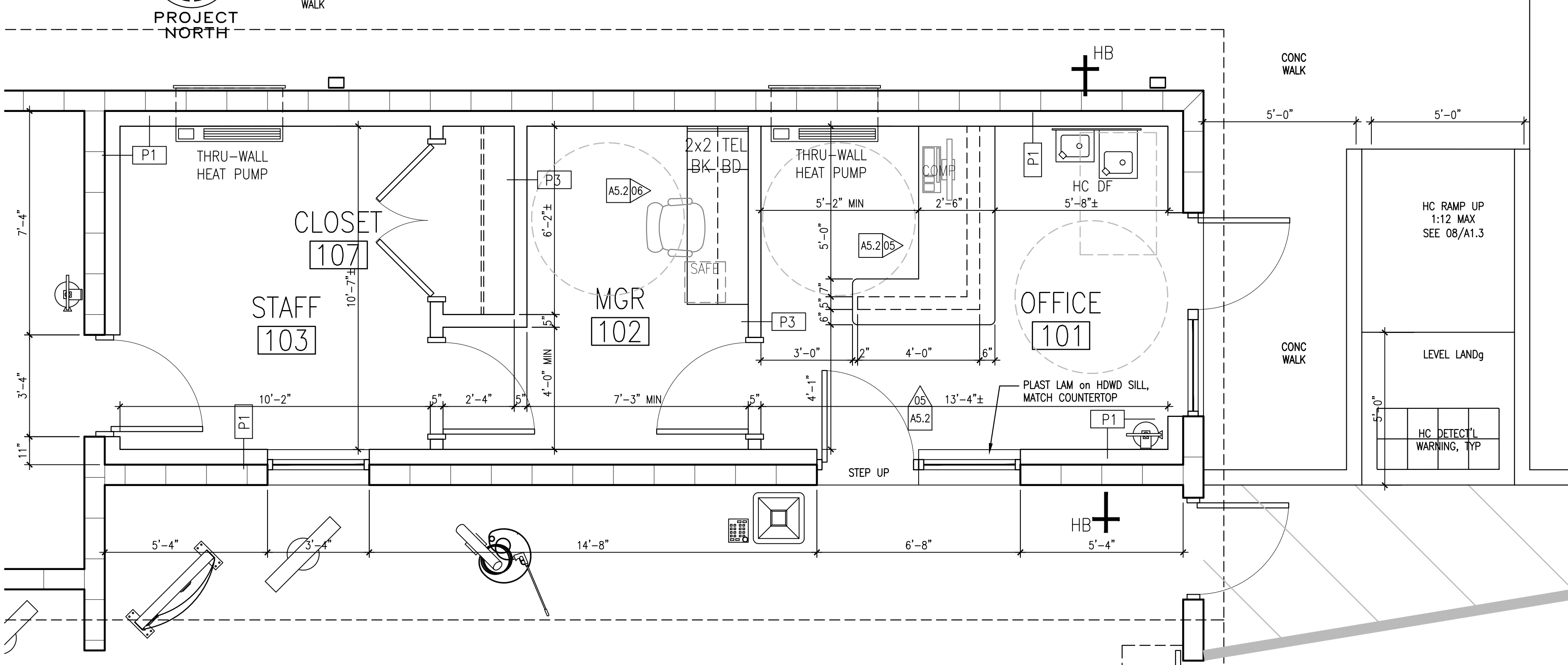
01 FLOOR PLAN

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



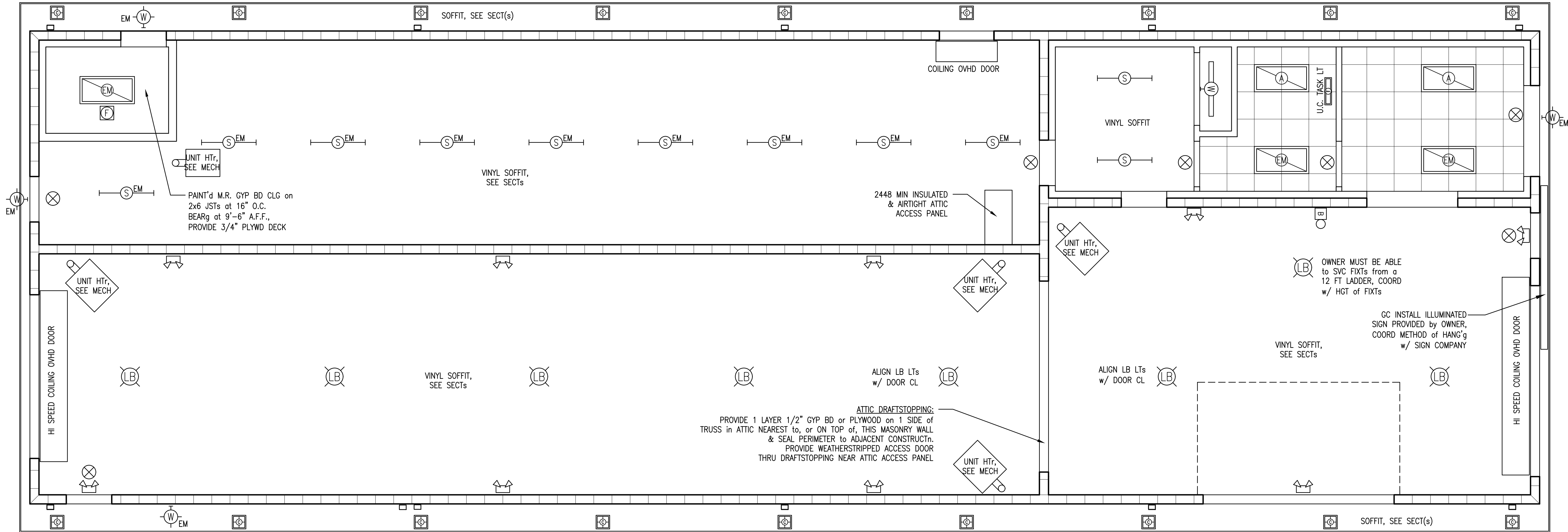
03 FLOOR PLAN
TOILET/CLOSET

SCALE: 3/8" = 1'-0"



02 FLOOR PLAN
OFFICE/STORAGE

SCALE: 3/8" = 1'-0"



ENERGY PERFORMANCE NOTES:

1. EXTERIOR WALLS:

Seal all joints between framing members at the interior face of the framing with siliconized caulking suitable for the application. This shall include joints between abutting members, sole plates at the floor & joints between top plates

Seal all joints between door or window frames & rough framing at the interior face of the framing with siliconized caulking or non-expanding foam sealant suitable for the application.

Seal all penetrations through walls, floors & roof not suitable for caulking with a non-expanding foam sealant & or a flashing assembly suitable for the application.

Provide Sprayed Cellulosic Wall Cavity Insulation that utilizes BORATE as its fireproofing additive in the wall cavities of all exterior walls & in the wall cavities around all toilet rooms & other rooms where sound isolaton is desirable. Install per the Cellulose Insulation Manufacturers' Association (CIMA, www.cellulose.org) recommendations & guidelines, CIMA Technical Bulletins #2 "Standard Practice for Installing Cellulose Building Insulation and #3, "Standard Practice for the Installation of Sprayed Cellulosic Wall Cavity Insulation" including the referenced ASTM standards. The insulation contractor will usually provide the caulking & sealing services described above.

Provide continuous horizontal framing at a maximum of ((8'-0")) on center vertically to support the insulation in the wall cavities.

2. ATTIC:

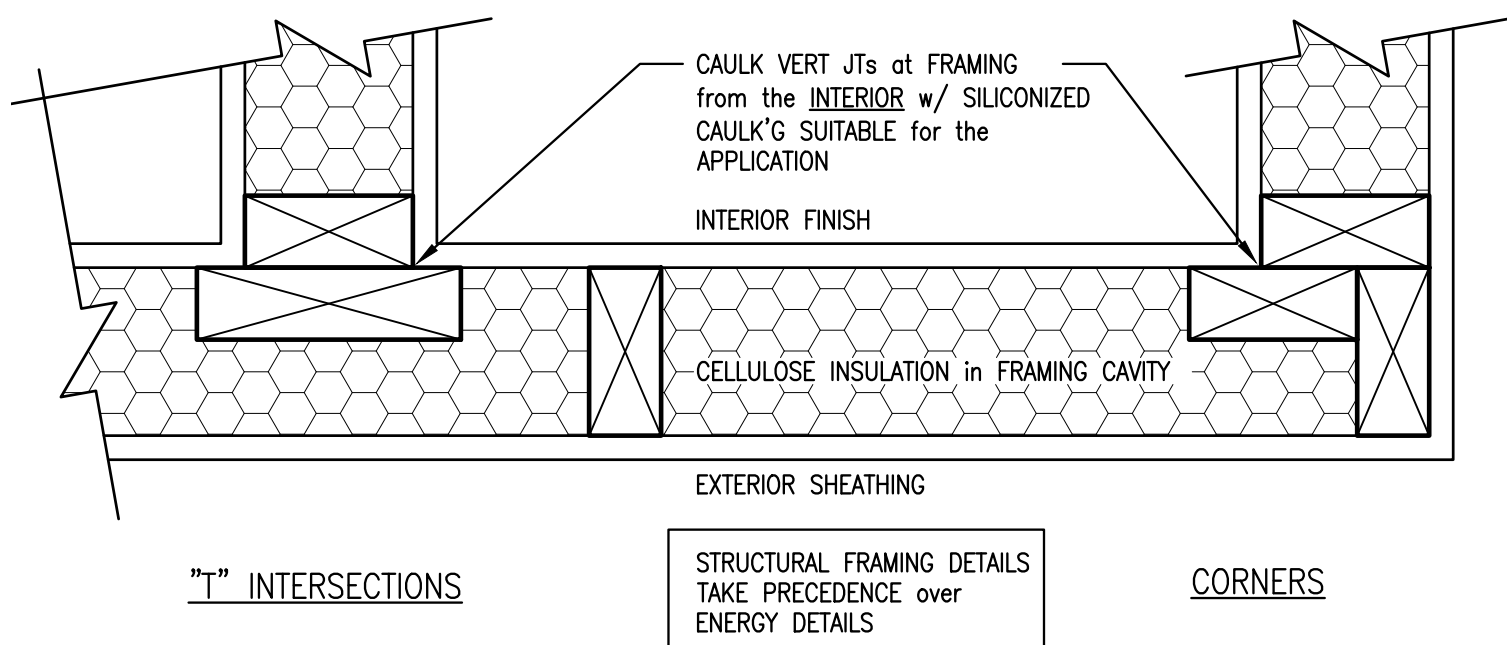
Provide Cellulosic Fiber Stabilized Thermal Insulation that utilizes BORATE as its fireproofing additive in all attic spaces. Install per the CIMA recommendations & guidelines, CIMA Technical Bulletins #2, "Standard Practice for Installing Cellulose Building Insulation" and/or #5, "Guide for Installation of Cellulosic Fiber Stabilized Thermal Insulation" including the referenced ASTM standards. See insulation note above.

3. PLUMBING:

Insulate all hot water pipes with foam insulation pipe wraps.

4. OWNER'S OPTION:

Alternate materials/assemblies that provide the required energy performance may be substituted for those specified upon approval of the Owner PRIOR to ordering materials or beginning the work.



03 PLAN DETAIL

PARTITION FRAMING & INSULATION

SCALE: 3" = 1'-0"

CEILING LEGEND

	2x2 LAY-IN SUSPENDED CEILING SYSTEM AS SELECTED		2 TUBE x 4'-0" STRIP FLUORESCENT FIXTURE w/ WIRE GUARDS "EM" INDICATES EMERGENCY FIXTURE W/ BATTERY BACKUP
			TOILET EXHAUST FAN AS SELECTED ALSO UTILIZED to TRANSFER CONDITIONED AIR from OFFICE to MGR, SEE RCP
	2x4 LAY-IN FLUORESCENT FIXTURE AS SELECTED "EM" INDICATES EMERGENCY FIXTURE W/ BATTERY BACKUP		EXIT LIGHT "WET LOCATION" AT TUNNEL
	WET LOCATION LED "LOW BAY" LED LIGHT FIXTURE		EMERGENCY LIGHT FIXTURE "WET LOCATION" AT TUNNEL
	EXTERIOR "WALL PACK" LIGHT FIXTURE AS SELECTED		WALL MOUNTED LIGHT FIXTURE "EM" INDICATES EMERGENCY FIXTURE W/ BATTERY BACKUP
	RECESSED EXTERIOR SOFFIT "WALL WASHER" LIGHT FIXTURE as SELECTd		EXTERIOR TELEPHONE BELL w/ J-BOX, CONDUIT & WIRE to TEL BK BD

SEE ELECTRICAL & MECHANICAL DRAWINGS by OTHERS

COORDINATE ALL MECHANICAL DIFFUSER LOCATIONS with LIGHTING PLAN. LIGHTING LOCATIONS TAKE PRECEDENCE OVER OTHER CEILING DEVICES & FIXTURES, TYPICAL

ALL ELECTRICAL EQUIP, DEVICES & FIXTURES SHALL BE U.L. LISTED & LABELED

PARTITION SCHEDULE

GC'S OPTION: METAL FRAMING MAY USED IN LIEU of WOOD FRAMING w/ PRIOR APPROVAL by OWNER

MARK	RATE	THK	STC	HGT	DETAIL	DESCRIPTION
P1	-	6 1/8"		to BOTTOM of TRUSSES		CONDITIONED SPACE FLUR'g: 1 layer 5/8" PROPRIETARY gypsum board screw attached to one side of 2x6 wood studs at 16" on center at interior face. Stagger all wallboard joints. Fill cavity w/ Sprayed Cellulosic Wall Cavity Insulation conforming w/ ASTM C-1149. See Energy Performance Notes & details.
P2	-	6 3/4"		to BOTTOM of CLG JSTs		1 layer 5/8" PROPRIETARY gypsum board screw attached to each side of 2x6 wood studs at 16" on center. Stagger all wallboard joints. Fill cavity w/ Sprayed Cellulosic Wall Cavity Insulation conforming w/ ASTM C-1149 for sound attenuation.
P3	-	4 3/4"	NA	6" ABV CEILING		1 layer 5/8" PROPRIETARY gypsum board screw attached to each side of 2x4 wood studs at 16" on center. Stagger all wallboard joints.

SEE REQ's on A2.0 for REQ'd R-VALUES of THERMALLY INSULATED WALLS

PROVIDE CEMENT BACKER BOARD (DUROCK or EQUAL) INSTALLED per the MFG's RECOMMENDATIONS for the APPLICATION as the BACKUP for CERAMIC TILE

PROVIDE PRESSURE TREATED LUMBER ANYWHERE WOOD CONTACTS CONCRETE or MASONRY

PROVIDE HORIZ BLOCK'g in WALLS at MAX 8'-0" O.C. VERTICALLY for SUPPORT OF CELLULOSE INSULATION

WASH-RITE Express Car Wash

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PROJECT TITLE

SHEET TITLE:

REFLECTED CEILING PLAN

PARTITION SCHEDULE

COMMISSION NUMBER: 4044.02
DATE: 30 SEP 2025

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A2.2
XX of XX

ROOM FINISH SCHEDULE											
ROOM		FLOOR		WALL				CEILING			
NO	NAME	QUARRY TILE	CONCRETE	---	---	GYP BOARD	PAINT	CMU	VINYL PANELS	CERAMIC TILE	---
101	OFFICE	●				●					
102	MANAGER	●				●					
103	STAFF	●				●					
104	EQUIPMENT ROOM	●				●					
105	CAR WASH TUNNEL	●				●					
106	UNISEX TOILET	●				●					
107	CLOSET	●				●					
											HEIGHT
											9'-0"
											9'-0"
											12'-0"
											12'-0"
											12'-8"
											9'-6"
											9'-6"

SEE WASH RITE SPECIFICATIONS for ALL MATERIAL & COLOR SELECTIONS

TOILET ACCESSORIES		BOBRICK OR EQUAL			
TAG	QTY	DESCRIPTION	MANUFACTURER	MODEL #	REMARKS
G1	1	42"L GRAB BAR	BOBRICK	B-6806.99x42	---
G2	1	36"L GRAB BAR	BOBRICK	B-6806.99x36	---
G3	1	18"L GRAB BAR	BOBRICK	B-6806.99x18	---
TT	1	2-ROLL TOILET TISSUE	BOBRICK	B-2740	NO controlled delivery or by Owner's provider
PI	1	PLUMBING PAD/INSULATION KIT	TRUEBRO	LAV GUARD 2	TRUEBRO or EQUAL www.truebro.com, WHITE
CH	1	COAT HOOK	BOBRICK	B-233	DOOR MTD
MR	1	18"x30" MIRROR / SHELF	BOBRICK	B-292 1830	SATIN ST STL FRAME
HD	1	HAND DRYER	as SELECTd by OWNER		RECESS MOUNT KIT, PROVIDE ELEC
SD	0	SOAP DISPENSER	---	BY OWNER	---

VERIFY TOILET TISSUE DISPENSERS ARE COMPATIBLE w/ OWNER'S PREFERRED SUPPLIES PRIOR to ORDERING and MODIFY SELECTIONS if REQUIRED

INSTALL OWNER SUPPLIED ACCESSORIES per MFG's INSTRUCTIONS & RECOMMENDATIONS

†^{HB} HOSE BIBB:

WALL FAUCET "MODEL 30" by WOODFORD MFG (<http://woodfordmfg.com>) or EQUAL.

AUTO DRAINING, FREEZELESS, w/ BACKFLOW PROTECTION

PROVIDE LOCKING RECESSED MODULAR WALL BOX at EXTERIOR, WOODFORD MB30BX-K

PROVIDE MOUNTING SLEEVE IN MASONRY, WOODFORD WF-30MS

COORD INSTALLATION w/ MASONRY & VINYL WALL PANELS.



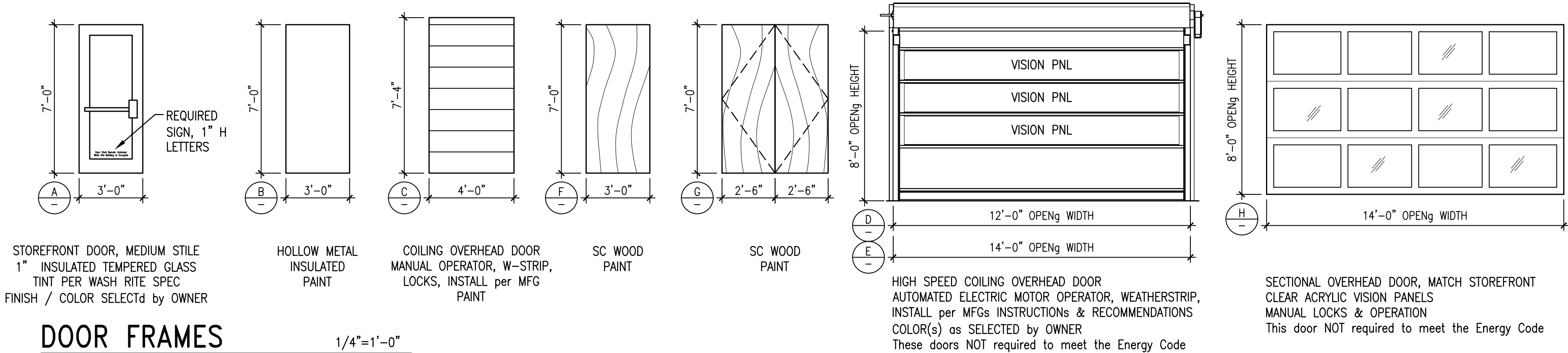
ATTACH SIGN w/ (4) COUNTERSUNK FLATHEAD SCREWS or BOLTS. LOCATE SIGN ON STRIKE SIDE OF DOOR.

SIGN CHARACTERS & BACKGROUND SHALL BE EGGSHELL, MATTE or OTHER NON-GLARE FINISH

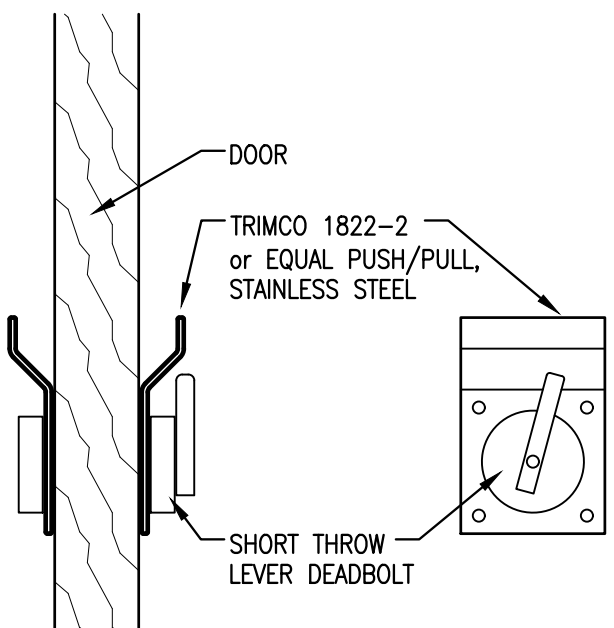
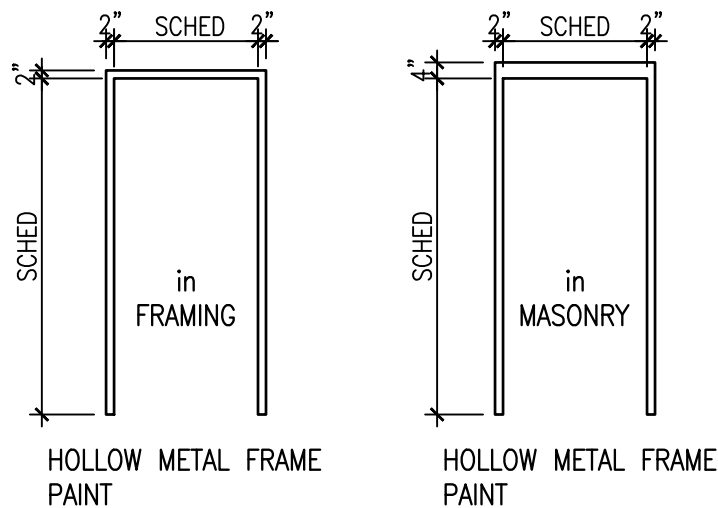
PROVIDE 'WHITE LETTERS & CHARACTERS on A BLUE BACKGROUND for CONTRAST AS REQ'D BY THE A.D.A.

LETTERS & NUMBERS SHALL BE 1" HIGH, UPPER CASE, SANS SERIF or SIMPLE SERIF FONT, RAISED 1/32" & SHALL BE ACCOMPANIED BY GRADE 2 BRAILLE.

DOOR SCHEDULE



DOOR FRAMES



HARDWARE SCHEDULE

DEADBOLT by KEY/THUMB; PIVOTS, PUSH/PULL, CLOSER, WEATHERSTRIPPING & SIGN "THIS DOOR SHALL REMAIN UNLOCKED WHEN THIS BUILDING IS OCCUPIED"

CLASSROOM FUNCTION LOCKSET: 1-1/2 PAIR 4-1/2" BUTTS, CLOSER, w/ HOLD-OPEN, KICKPLATE EACH SIDE & SILENCERS

PUSH-PULL PLATES & AUX DEADBOLT LOCK: (see detail this sheet) 1-1/2 PAIR 4-1/2" BUTTS, CLOSER w/ HOLD-OPEN & KICKPLATE EACH SIDE. SCHLAGE B571 or EQUAL DEADBOLT w/ VACANCY INDICATOR, THUMBTURN (HC ACCESSIBLE) at INTERIOR & KEY at EXTERIOR

CLASSROOM FUNCTION LOCKSET: (single operation exit) 1 1/2 PAIR 4-1/2" BUTTS, CLOSER w/ HOLD OPEN, KICKPLATE EACH SIDE, WEATHERSTRIPPING & WEATHERPROOF THRESHOLD

PUSH-PULL PLATES & AUX DEADBOLT LOCK: (see detail this sheet) 1-1/2 PAIR 4-1/2" BUTTS, CLOSER w/ HOLD-OPEN WEATHERSTRIPPING & KICKPLATE EACH SIDE. THUMBTURN at INTERIOR & KEY at EXTERIOR

FIXED PULLS; PAIR FIXED LEVER HANDLE PULLS MATCHg OTHER LOCKSETS, 3 PAIR 4-1/2" BUTTS, ADJUSTABLE BALL CATCH in HEAD of EACH LEAF

DOOR & HARDWARE NOTES:

HANDLES, PULLS, LATCHES, LOCKS & OTHER OPERABLE PARTS SHALL BE 34" MINIMUM & 48" MAXIMUM A.F.F.

PROVIDE COMMERCIAL QUALITY HARDWARE ADEQUATE for the INTENDED USE

PROVIDE COMPLETE HARDWARE SETS with ALL ACCESSORIES as REQ'D for the INTENDED USE & FIRE RATING

PROVIDE ACCESSORIES AS REQ'D to PROVIDE WEATHERTIGHT DOORS at ALL EXTERIOR OPENINGS.

INSTALL per MANUFACTURER'S SPECIFICATIONS & RECOMMENDATIONS

PROVIDE & INSTALL HARDWARE in COMPLIANCE w/ the CURRENT EDITION of THE AMERICANS with DISABILITIES ACT (ADA) & CABO/ANSI's ACCESSIBLE & USEABLE BUILDINGS & FACILITIES (ANSI A117.1)

FINISH / COLOR SHALL MATCH STOREFRONT FINISH / COLOR UNLESS NOTED OTHERWISE

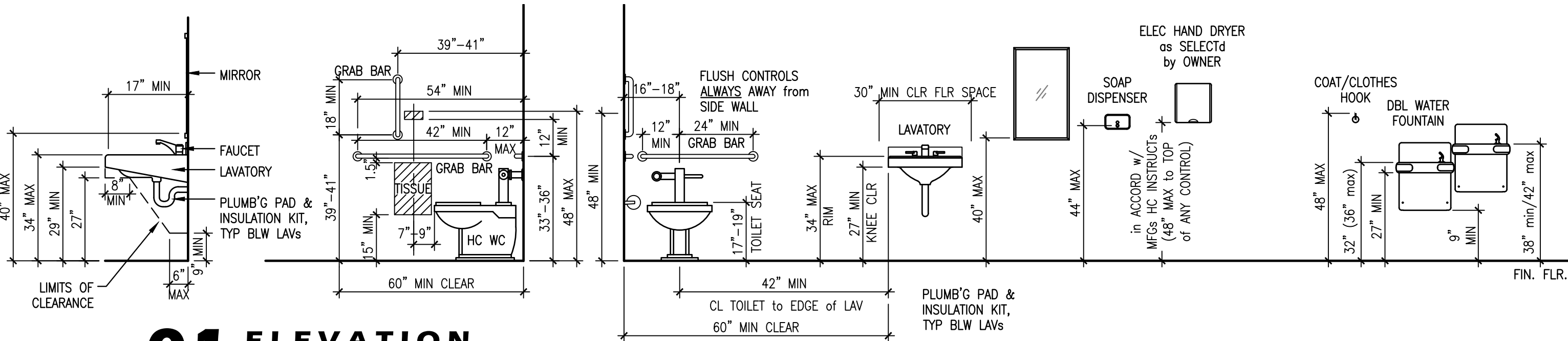
PROVIDE WALL MOUNTED DOOR STOPS w/ SOLID WOOD BLOCKING BACKUP at ALL DOORS

ALL THRESHOLDS & TRANSITION STRIPS SHALL BE ADA COMPLIANT

ALL FENESTRATION thru the CONDITIONED ENVELOPE SHALL MEET the REQUIREMENTS of the APPLICABLE ENERGY CONSERVATION CODE. SEE PROJECT INFORMATION w/ LIFE SAFETY PLAN.

02 DETAILS

TOILET ROOM DOOR HARDWARE

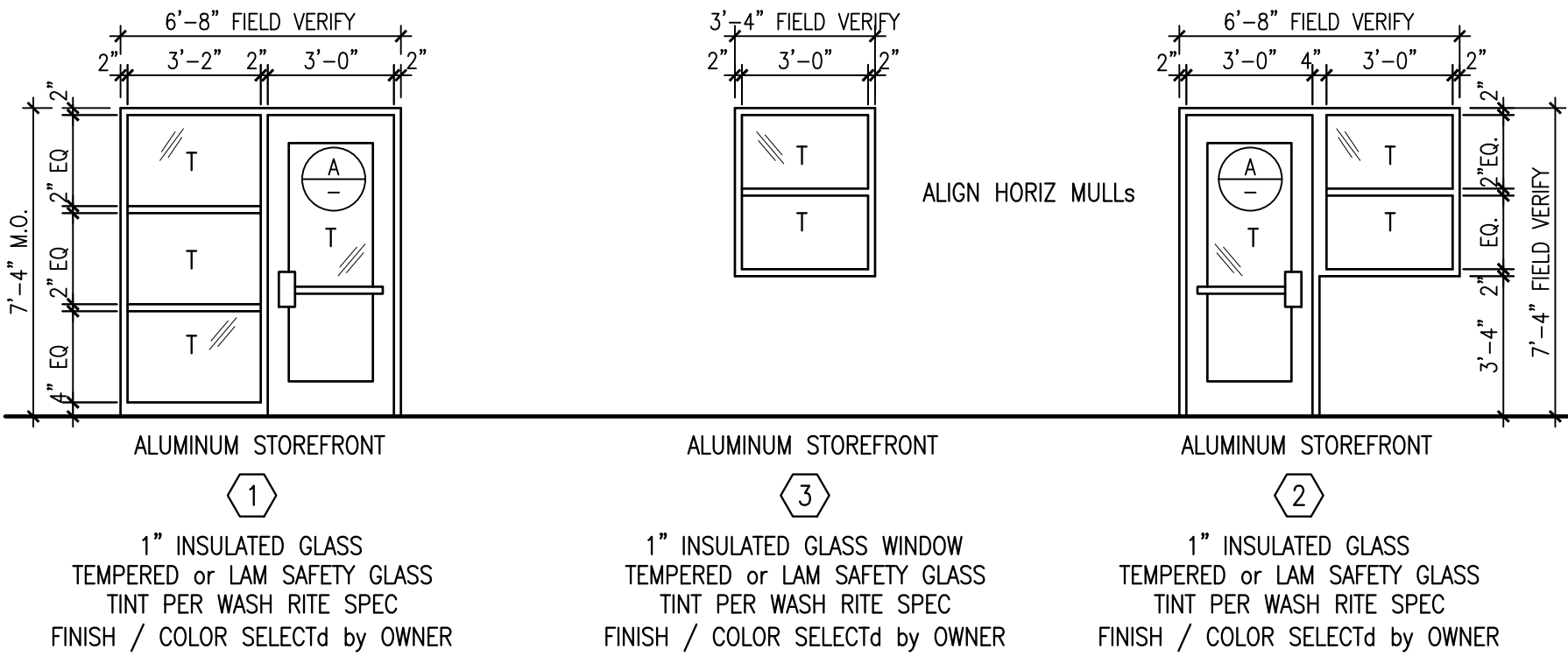


01 ELEVATION

TOILET ROOM HC MOUNTING HEIGHT DIMENSIONS

WINDOW SCHEDULE

ALL FENESTRATION SHALL MEET the REQUIREMENTS of the APPLICABLE ENERGY CONSERVATION CODE. SEE PROJECT INFORMATION.



COORDINATE ALL TRADES SUCH that ELECTRICAL DEVICES, SWITCHES, LIGHTS, PLUMBING PIPES, CLEANOUTS, ETC DO NOT CONFLICT WITH or "SPLIT" CHAIR RAIL, WAINSCOT, BASE, CROWN, DOOR & WINDOW TRIM, ETC. and ARE PROPERLY & NEATLY LOCATED for THEIR INTENDED FUNCTION in FINISHED MATERIALS. ALL ITEMS SHALL BE LOCATED WITHIN ONE FINISH MATERIAL ONLY.

ALL DEVICES, FIXTURES & ACCESSORIES SHALL CONFORM to the CURRENT EDITIONS of the OHIO BUILDING CODES' (OBC) MODEL CODES, AMERICAN NATIONAL STANDARDS INSTITUTE's (ANSI) A117.1, "ACCESSIBLE & USABLE BUILDING & FACILITIES", the "AMERICANS" with DISABILITIES ACT" (ADA) & the STANDARDS of the LOCAL AUTHORITIES HAVING JURISDICTION.

SEE ALSO ELECTRICAL PLAN & LEGEND for ADDITIONAL ITEMS &/or MOUNTING HEIGHTS

SEE ALSO INTERIOR ELEVATIONS for COORDINATION w/ MILLWORK, TRIM, EQUIPMENT, ETC.

TYPICAL DEVICE & COVER PLATE COLOR SHALL BE WHITE.

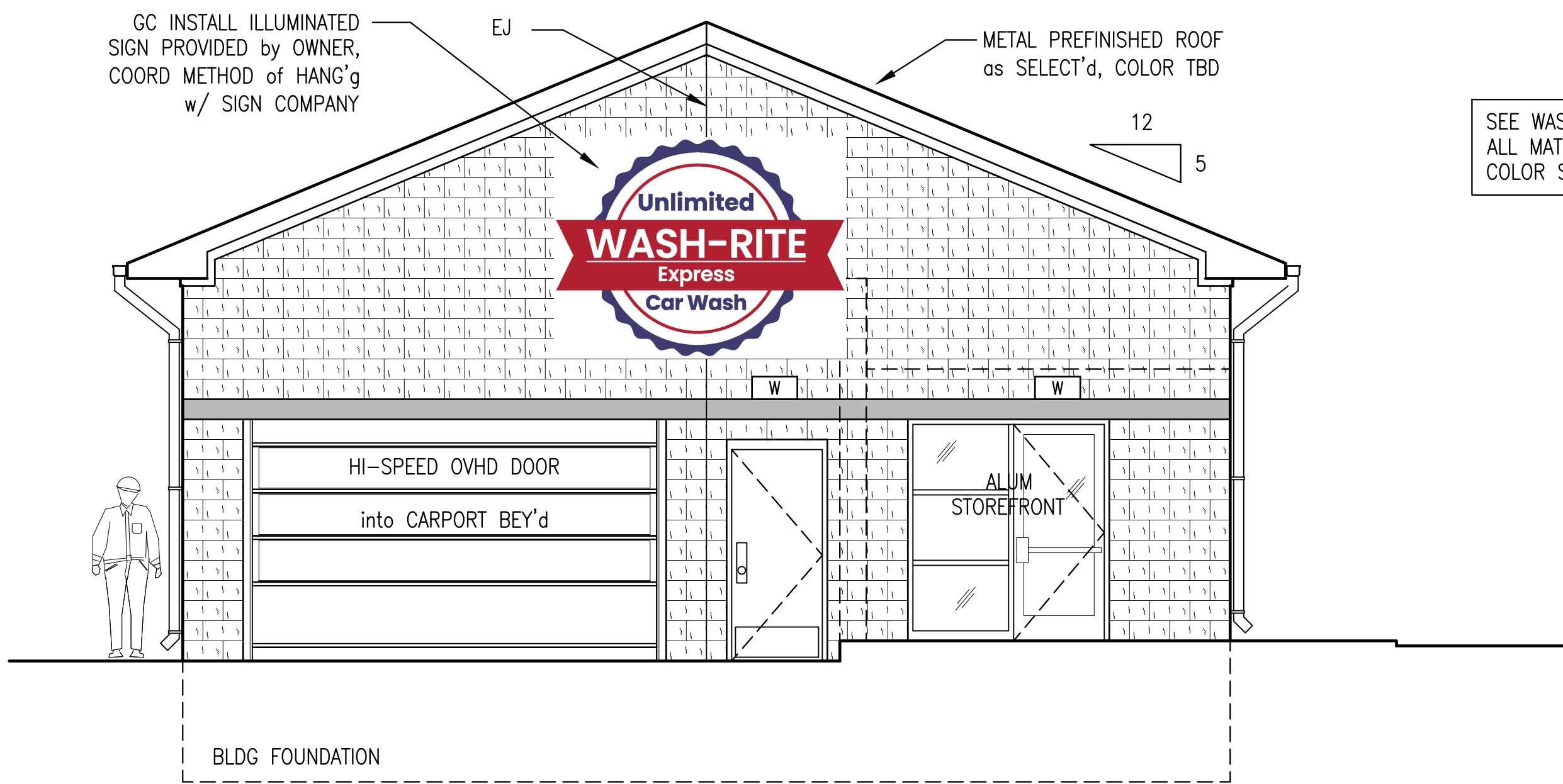
DEDICATED CIRCUIT for COMPUTERS or OTHER SPECIAL EQUIPMENT DEVICE COLOR SHALL BE ORANGE.



WASH-RITE Express Car Wash
Mt Dechantal Rd at Hunter Ave, Wheeling, WV 26003

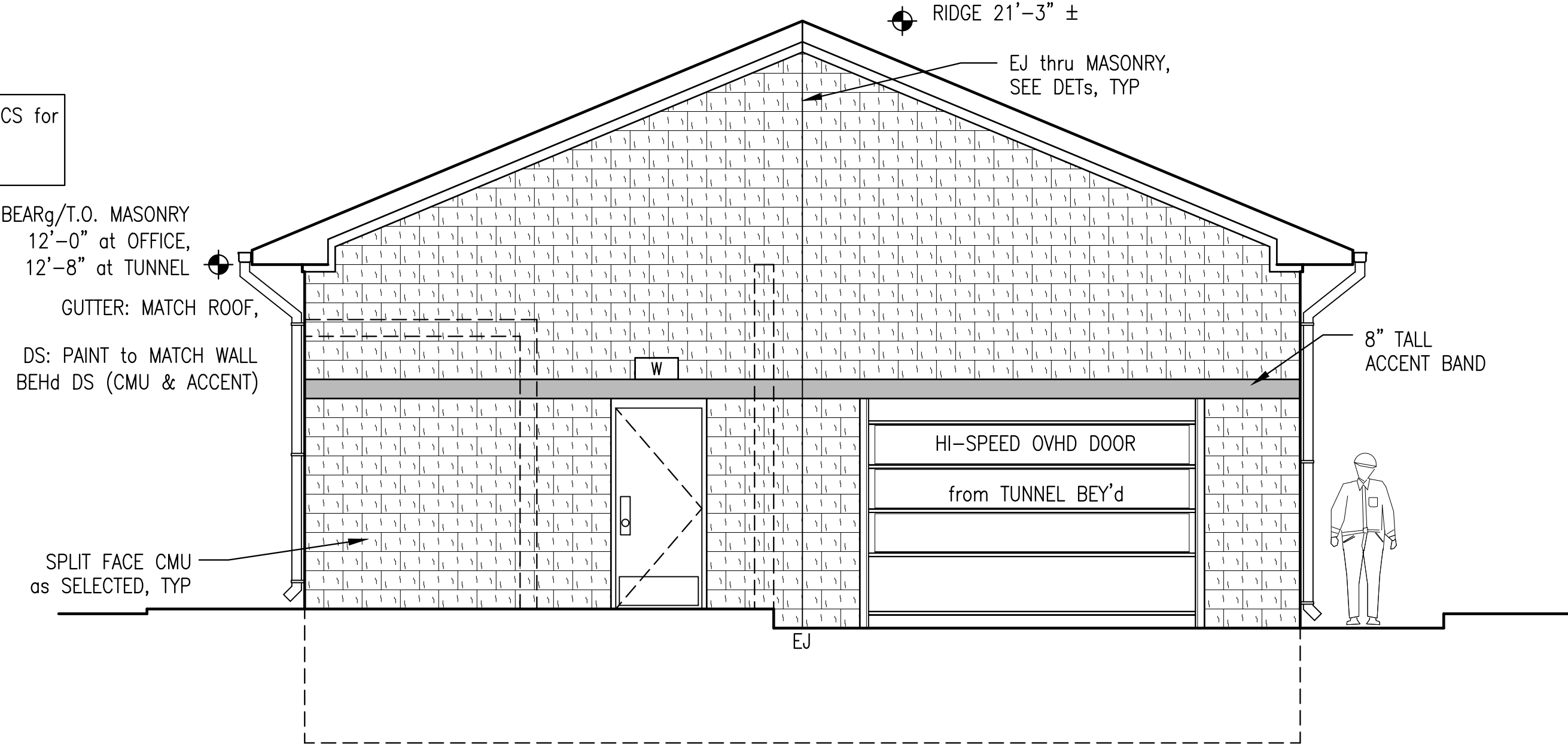
Gary A. Nash
ARCHITECT

120 23rd STREET South (205) 322-7482
Suite 110 Birmingham, AL U.S.A. 35233

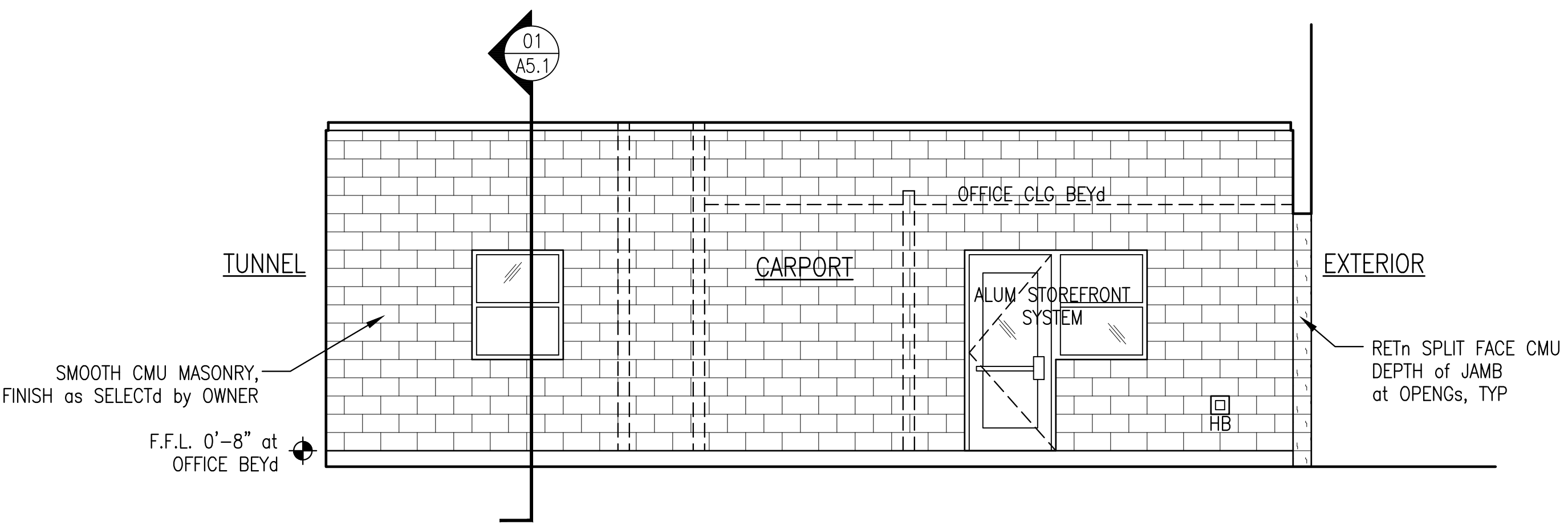


04 EAST ELEVATION SCALE: 1/4" = 1'-0"
TWO TUNNEL ENTRANCE

SEE WASH RITE SPECS for ALL MATERIAL & COLOR SELECTIONS



03 WEST ELEVATION SCALE: 1/4" = 1'-0"
TWO TUNNEL EXIT



05 ELEVATION SCALE: 1/4" = 1'-0"
CARPORT TWO OFFICE



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WASH-RITE Express Car Wash
Mt Dechantal Rd at Hunter Ave, Wheeling, WV 26003

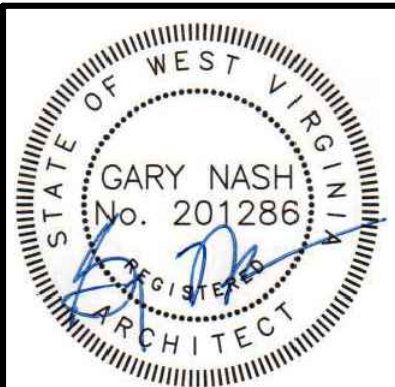
Gary A. Nash
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SHEET TITLE:	
EXTERIOR ELEVATIONS	

COMMISSION NUMBER: 4044.02	
DATE: 30 SEP 2025	
DRAWN BY: _____	
CHECKED BY: _____	

SHEET NUMBER:
A4.1
XX of XX



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PROJECT TITLE

WASH-RITE Express Car Wash

120 23rd STREET South (205) 322-7482

Suite 110 Birmingham, AL U.S.A. 35233

SHEET TITLE

Mt Dechantal Rd at Hunter Ave, Wheeling, WV 26003

GARY A. NASH

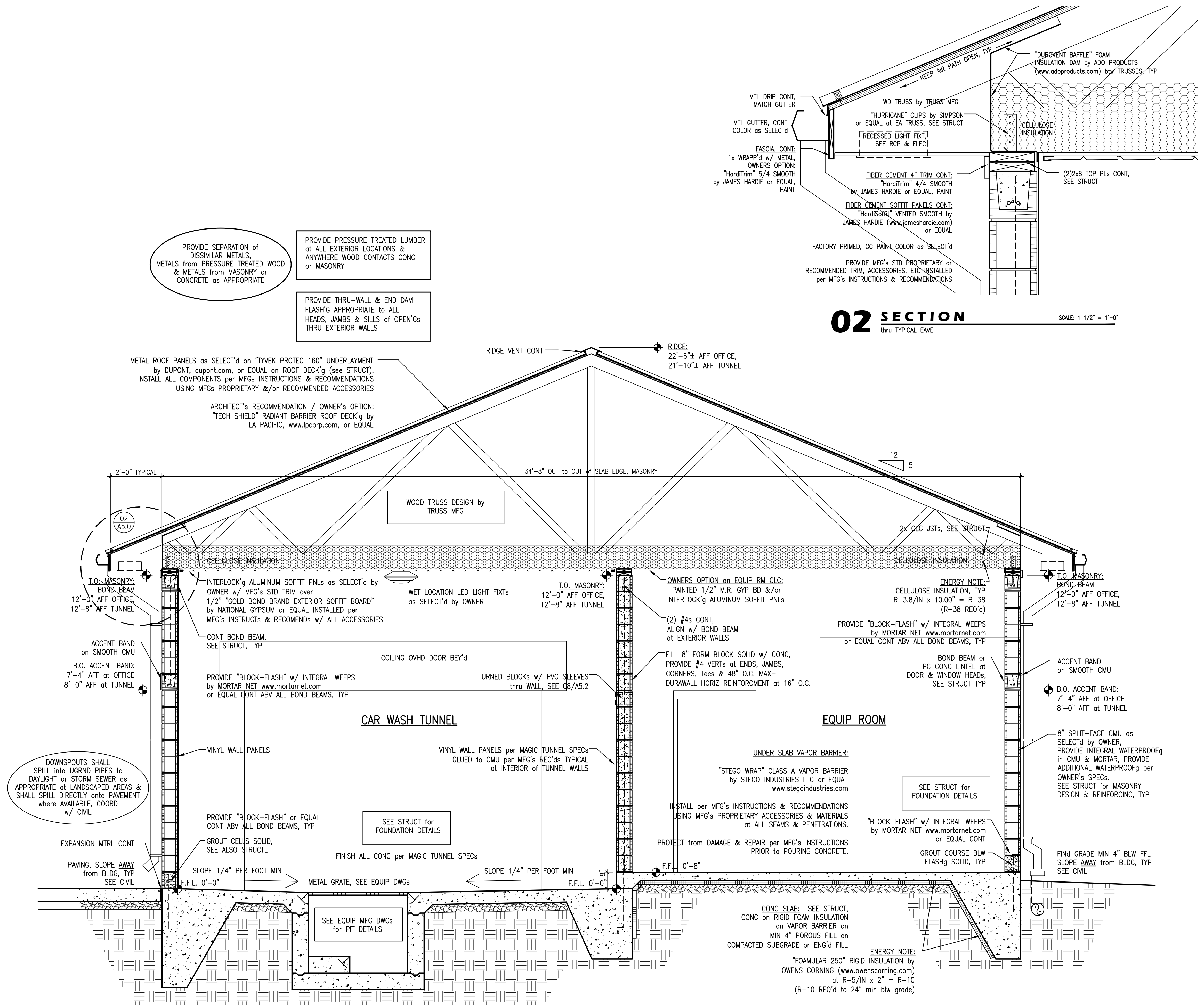
ARCHITECT

BUILDING SECTION	
DETAILS	
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COMMISSION NUMBER:	DATE:
4044.02	30 SEP 2025
DRAWN BY:	CHECKED BY:

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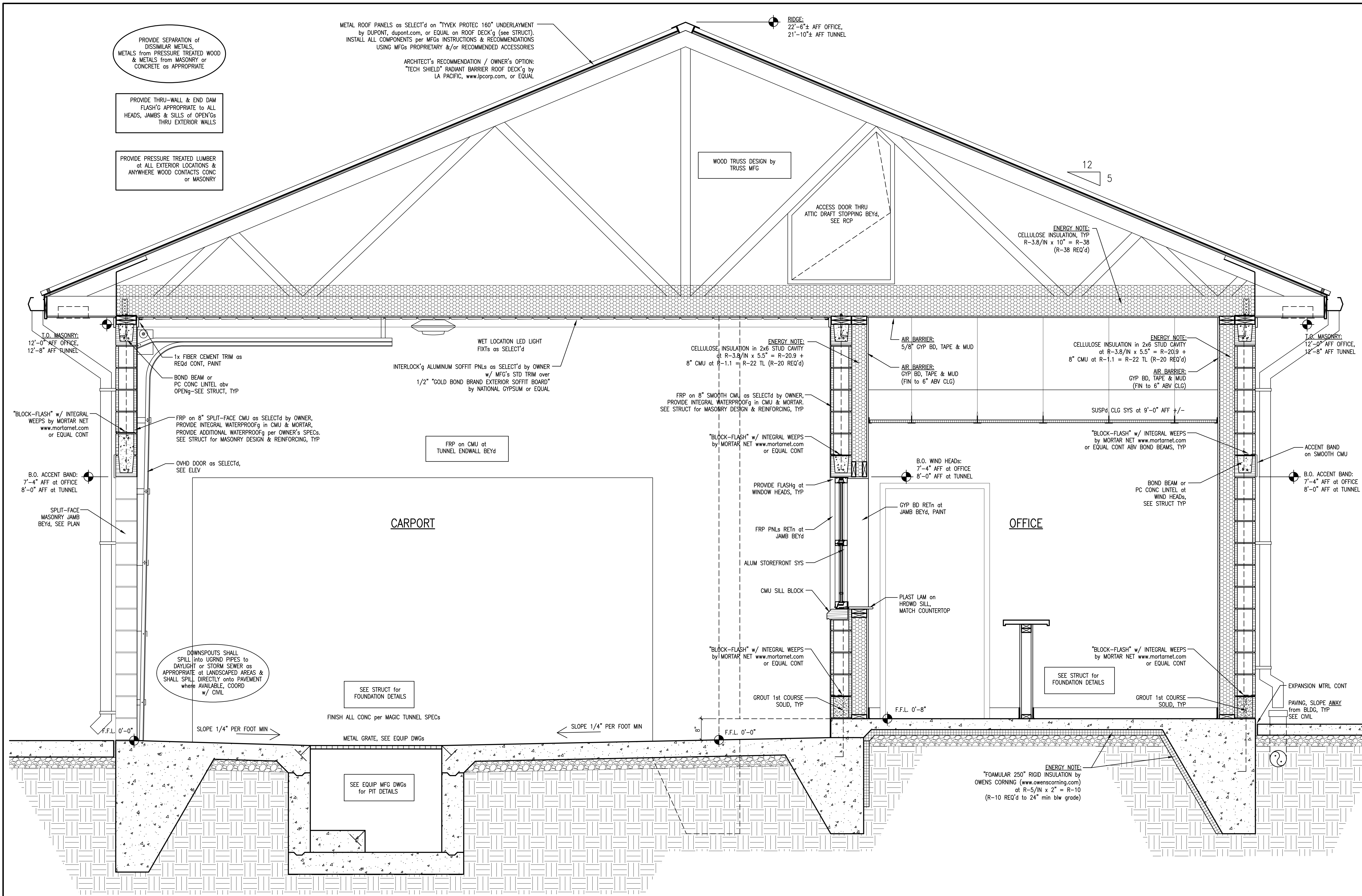
A5.0

XX of XX



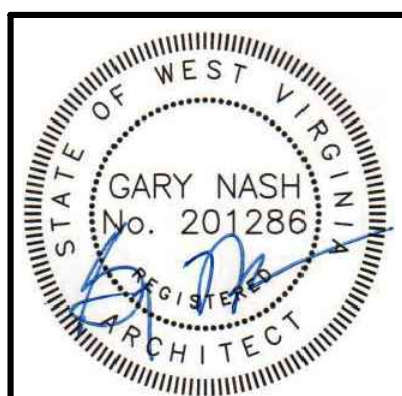
01 BLDG SECTION SCALE: 1/2" = 1'-0"
thru TUNNEL at EQUIPMENT ROOM

02 SECTION SCALE: 1 1/2" = 1'-0"
thru TYPICAL EAVE



01 BLDG SECTION
thru "CARPORT" twd TUNNEL ENTRANCE

SCALE: 3/4" = 1'-0"



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WASH-RITE Express Car Wash
Mt Dechantal Rd at Hunter Ave, Wheeling, WV 26003

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Suite 110 Birmingham, AL U.S.A. 35233

PROJECT TITLE

Gary A. Nash
ARCHITECT

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BUILDING SECTION	
COMMISSION NUMBER: 4044.02	
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DRAWN BY:	
CHECKED BY:	

SHEET NUMBER

A5.1
XX of XX

LBYP, Inc.
Civil and Structural Engineers
880 Montclair Road
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Birmingham, AL 35213
Phone (205) 251-4500
Project No. 134021.001

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CN. CONCRETE

CN.2 MINIMUM CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS (PSI), TYPE OF CONCRETE, MAXIMUM W/C (WATER/CEMENTITIOUS MATERIALS RATIO), TOTAL AIR CONTENT, SLUMP AND CONCRETE USE:

STRENGTH	TYPE	W/C	AIR	SLUMP	USE
4500	NORMAL WT.	0.45	5-7%	3" TO 5"	SLAB ON GRADE
3000	NORMAL WT.	0.57	- - -	3" TO 5"	FOOTINGS

MA.13 TEMPORARY BRACING OF CMU WALLS IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL REMAIN IN PLACE UNTIL PERMANENT RESTRAINT IS PROVIDED.

FD.8 PROVIDE 4" OF COMPACTED GRANULAR FILL BENEATH ALL SLABS ON GRADE.

REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR
SEISMIC SUPPORT AND ATTACHMENT REQUIREMENTS FOR UTILITIES.

A. SPECIAL INSPECTIONS ARE REQUIRED FOR THIS PROJECT IN ACCORDANCE WITH INTERNATIONAL BUILDING CODE. REFER TO OTHER GENERAL NOTES.



ress Car Wash
Wheeling, WV 26003

General Notes

COMMISSION NUMBER:

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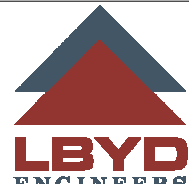
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MBB

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General Notes Continued



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Phone (205) 251-4500
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PROJECT TITLE:

WASH-RITE Express Car Wash

SHEET TITLE:

General Notes Continued

COMMISSION NUMBER:

4044.02

DATE:

27 JUN 2023

DRAWN BY:

MBB

CHECKED BY:

ROW

SHEET NUMBER:

S1A

120

23rd

STREET

South

(205)

254-3212

Suite

110

Birmingham,

AL

U.S.A.

35233

GARY A. NASH

ARCHITECT

Mt Dechantal Rd at Hunter Ave, Wheeling, WV 26003

WD. WOOD CONSTRUCTION

WD.1

WOOD FRAMING MEMBERS: VISUALLY GRADED DIMENSIONED #2 SOUTHERN PINE.

WD.2

ALL PRESSURE TREATED SOUTHER PINE LUMBER SHALL BE PRESSURE TREATED WITH ALKALINE COPPER QUATERNARY (ACQ) IN ACCORDANCE WITH AMERICAN WOOD PROTECTION ASSOCIATION (AWPA) STANDARD U1, COMMODITY SPECIFICATION A.

A.

USE CATEGORIES:

1.

UC2/INTERIOR DRY – WOOD PLATES IN CONTACT WITH WOOD OR MASONRY

B.

ALL FASTENERS, NAILS AND OTHER METAL PRODUCTS USED WITH LUMBER PRESSURE TREATED WITH ACQ SHALL BE HOT-DIP GALVANIZED, STAINLESS STEEL OR AS RECOMMENDED BY THE ACQ MANUFACTURER. PRESSURE TREATED LUMBER SHALL NOT BE IN DIRECT CONTACT WITH ALUMINUM PRODUCTS.

WD.3

ALL MANUFACTURED WOOD FRAMING CONNECTORS TO BE BY SIMPSON STRONG-TIE COMPANY, INC. OR APPROVED EQUAL. ALL CONNECTORS SHALL BE FASTENED TO FRAMING MEMBERS FILLING THE REQUIRED NUMBER OF CONNECTOR HOLES WITH THE TYPE AND SIZE FASTENERS SPECIFIED BY THE MANUFACTURER.

WD.4

ROOF SHEATHING: 19/32” OSB, APA STRUCTURAL I RATED SHEATHING, EXPOSURE I. PANEL IDENTIFICATION INDEX 32/16. LONG DIMENSION OF PANEL PERPENDICULAR TO SUPPORTS WITH JOINTS STAGGERED.

WD.5

ROOF SHEATHING NAILING, UNLESS NOTED: 10D HOT-DIPPED GALVANIZED COMMON NAILS AT 6 INCHES AT DIAPHRAGM BOUNDARIES, 6 INCHES AT ALL FOUR PANEL EDGES AND 12 INCHES AT INTERMEDIATE SUPPORTS. ALL UNSUPPORTED PANEL EDGES SHALL BE FULLY BLOCKED.

WT. WOOD TRUSSES

WT.1

DESIGN, FABRICATE AND ERECT WOOD TRUSSES IN ACCORDANCE WITH THE "DESIGN SPECIFICATION FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES" OF THE TRUSS PLATE INSTITUTE. ERECTION PLANS, TRUSS CALCULATIONS AND CONNECTION CALCULATIONS, DESIGNED BY THE CONTRACTOR, SHALL BE SUBMITTED FOR THE FILES OF THE STRUCTURAL ENGINEER. CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED.

WT.2

THE WOOD TRUSS SYSTEM ENGINEER SHALL DESIGN THE COMPLETE TRUSS SYSTEM. THE TRUSS SYSTEM IS AN ASSEMBLAGE OF TRUSSES AND TRUSS GIRDERS, TOGETHER WITH ALL BRACING, CONNECTIONS AND OTHER STRUCTURAL ELEMENTS AND ALL SPACING AND LOCATIONAL CRITERIA, THAT, IN COMBINATION, FUNCTION TO SUPPORT THE LOADS APPLICABLE TO THE STRUCTURE.

WT.3

TRUSS MANUFACTURER SHALL DESIGN FOR THE FOLLOWING SUPERIMPOSED LOADS:

A.

ROOF:

1.

TOP CHORD DEAD LOAD -----10 PSF

2.

BOTTOM CHORD DEAD LOAD -----10 PSF

3.

TOP CHORD LIVE LOAD -----SEE SECTION GN.2.B.2

4.

TOP CHORD SNOW LOAD -----SEE SECTION GN.2.B.3

WT.4

DESIGN ROOF TRUSSES TO RESIST THE WIND UPLIFT LOADING IN ACCORDANCE WITH THE COMPONENTS AND CLADDING TABLE IN THE DRAWINGS.

WT.5

IN ADDITION TO THE ABOVE LOADS, WOOD TRUSSES SHALL BE DESIGNED FOR CONCENTRATED LOADS HUNG FROM OR SUPPORTED ON TRUSSES. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR LOADING INFORMATION AND LOCATION. LOADING AS REQUIRED BY OTHER SUBCONTRACTORS, SUCH AS FIRE PROTECTION, SHALL BE COORDINATED BY THE CONTRACTOR.

WT.6

ALL MANUFACTURED TRUSS HOLD-DOWNS TO BE BY SIMPSON STRONG-TIE COMPANY, INC. OR APPROVED EQUAL. ALL CONNECTORS SHALL BE FASTENED TO FRAMING MEMBERS FILLING THE REQUIRED NUMBER OF CONNECTOR HOLES WITH THE TYPE AND SIZE FASTENERS SPECIFIED BY THE MANUFACTURER.

WT.7

ALL TEMPORARY AND PERMANENT BRACING MEMBERS AND CONNECTIONS REQUIRED FOR WOOD TRUSSES SHALL BE DETAILED ON THE WOOD TRUSS MANUFACTURER'S ERECTION PLANS.

WT.8

TEMPORARY BRACING SHALL NOT IMPOSE ANY FORCE ON THE SUPPORTING STRUCTURE. PERMANENT BRACING FORCES SHALL BE TRANSFERRED TO THE ROOF OR FLOOR DIAPHRAGM BY THE BRACING DESIGN PROVIDED BY THE TRUSS MANUFACTURER.

PA. POST INSTALLED ANCHORS

PA.1

POST INSTALLED ANCHORS SHALL COMPLY WITH ACI-318 APPENDIX D.

PA.2

ACCEPTABLE MANUFACTURERS SHALL INCLUDE BUT ARE NOT LIMITED TO HILTI, INC. AND SIMPSON STRONG-TIE COMPANY, INC. AND DEWALT ANCHORS.

PA.3

CARE SHALL BE TAKEN IN PLACING POST INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REBAR.

PA.4

HOLES SHALL BE DRILLED AND CLEANED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE SHOWN SHALL BE SUBMITTED BY THE CONTRACTOR ALONG WITH PREPARED DOCUMENTATION DEMONSTRATING EQUAL SUBSTITUTION THAT THE PRODUCT IS CAPABLE OF ACHIEVING EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE.

PA.5

THE CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S INSTALLATION GUIDELINES, SPECIFICATIONS, AND RECOMMENDATIONS.

PA.6

ADHESIVE ANCHORS MUST BE INSTALLED IN CONCRETE AGED A MINIMUM OF 21 DAYS.

PA.7

A REPRESENTATIVE OF THE POST-INSTALLED ANCHOR MANUFACTURER SHALL BE PRESENT FOR THE FIRST INSTALLATION OF EACH TYPE OF ANCHOR USED TO DEMONSTRATE AND INSTRUCT TO THE CONTRACTOR'S INSTALLATION CREW AND PERSONNEL THE PROPER METHOD OF INSTALLATION. SHOULD THE CONTRACTOR CHANGE INSTALLATION CREW OR INDIVIDUALS INSTALLING THE ANCHOR, THE MANUFACTURER'S REPRESENTATIVE SHALL BE NOTIFIED BY THE CONTRACTOR TO RETURN AND PROVIDE INSTRUCTION TO THE NEW INSTALLER(S).

PA.8

MASONRY ANCHORS:

1.

ANCHORAGE TO SOLID-GROUTED CONCRETE MASONRY:

A.

MECHANICAL AND CONCRETE SCREW ANCHORS FOR USE IN SOLID-GROUTED CONCRETE MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC01 OR ICC-ES AC106, RESPECTIVELY.

B.

ADHESIVE ANCHORS FOR USE IN SOLID-GROUTED CONCRETE MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC58 OR AC60.

QC. CONCRETE QUALITY CONTROL TESTING DURING CONSTRUCTION

QC.1

ALL CONCRETE SHALL USE AIR-ENTRAINING ADMIXTURE AT THE MANUFACTURER'S PRESCRIBED RATE TO RESULT IN CONCRETE AT POINT OF PLACEMENT HAVING TOTAL AIR CONTENT AS NOTED ABOVE.

QC.2

CONCRETE AGGREGATES SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:

A.

SPECIFICATION FOR CONCRETE AGGREGATES, ASTM C33.

B.

NORMAL WEIGHT CONCRETE AGGREGATES MAY BE EITHER GRAVEL OR LIMESTONE UNLESS SPECIFIED.

QC.3

WATER: WATER FOR CONCRETE SHALL BE CLEAN, FRESH AND DRINKABLE.

QC.4

CEMENT:

A.

CEMENT SHALL CONFORM TO THE SPECIFICATION FOR PORTLAND CEMENT, ASTM C150, TYPE I (NORMAL).

B.

BRAND OF CEMENT: UNLESS ACCEPTED BY THE STRUCTURAL ENGINEER, USE ONE BRAND OF CEMENT THROUGHOUT THE PROJECT.

QC.5

CONCRETE MIX DESIGNS:

A.

AN INDEPENDENT TESTING AGENCY SHALL PREPARE DESIGN MIXES FOR EACH TYPE AND STRENGTH OF CONCRETE BY EITHER LABORATORY TRIAL MIXTURES OR FIELD EXPERIENCE METHODS AS SPECIFIED IN ACI 318.

B.

STRUCTURAL ENGINEER ACCEPTANCE: CONCRETE MIX DESIGNS MUST BE SUBMITTED A MINIMUM OF 15 DAYS PRIOR TO THE START OF THE WORK FOR STRUCTURAL ENGINEER'S ACCEPTANCE PRIOR TO PLACEMENT OF CONCRETE IN THE PLANT OR FIELD. ANY ADJUSTMENT IN APPROVED MIX DESIGNS INCLUDING CHANGES IN ADMIXTURES MUST BE SUBMITTED IN WRITING TO THE STRUCTURAL ENGINEER FOR ACCEPTANCE PRIOR TO USE IN THE FIELD.

C.

PUMPED CONCRETE: CONCRETE DESIGNED TO BE PUMPED SHALL BE NOTED ON THE MIX DESIGNS AND SHALL HAVE MIX PROPORTIONS COMPATIBLE WITH THE PUMPING PROCESS.

QC.6

ADMIXTURES: USE ONLY ADMIXTURES APPROVED BY THE STRUCTURAL ENGINEER AND CONTAINING NO CHLORIDE IONS.

QC.7

THE CONTRACTOR WILL EMPLOY A TESTING AGENCY TO PERFORM OTHER TESTS AND TO SUBMIT TEST REPORTS. SAMPLING AND TESTING FOR QUALITY CONTROL DURING PLACEMENT OF CONCRETE, AS FOLLOWS:

A.

SAMPLING FRESH CONCRETE: ASTM C172, EXCEPT MODIFIED FOR SLUMP TO COMPLY WITH ASTM C94.

1.

SLUMP: ASTM C143, ONE TEST FOR EACH SET OF COMPRESSIVE STRENGTH TEST SPECIMENS.

2.

AIR CONTENT: ASTM C173, VOLUMETRIC METHOD FOR LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE; ASTM C231 PRESSURE FOR NORMAL WEIGHT CONCRETE; ONE FOR EACH SET OF COMPRESSIVE STRENGTH TEST SPECIMENS.

3.

CONCRETE TEMPERATURE: TEST HOURLY WHEN AIR TEMPERATURE IS 40 DEGREES F (4 DEGREES C) AND BELOW, AND WHEN 80 DEGREES F (27 DEGREES C) AND ABOVE; AND EACH TIME A SET OF COMPRESSION TEST SPECIMENS ARE MADE.

4.

COMPRESSIVE TEST SPECIMEN: ASTM C31, ONE SET OF FOUR STANDARD CYLINDERS FOR EACH COMPRESSIVE STRENGTH TEST, UNLESS DIRECTED. MOLD AND STORE CYLINDERS FOR LABORATORY CURED TEST SPECIMENS EXCEPT WHEN FIELD-CURE TEST SPECIMENS ARE REQUIRED.

5.

COMPRESSIVE STRENGTH TESTS: ASTM C39, ONE SET FOR EACH 50 CU. YDS. OR FRACTION THEREOF, OF EACH CONCRETE CLASS PLACED IN ANY ONE DAY OR FOR EACH 5,000 SQ. FT. OF SURFACE AREA PLACED; ONE SPECIMEN TESTED AT 7 DAYS, TWO SPECIMENS TESTED AT 28 DAYS, AND ONE SPECIMEN RETAINED IN RESERVE FOR LATER TESTING IF REQUIRED.

A.

WHEN FREQUENCY OF TESTING WILL PROVIDE LESS THAN 5 STRENGTH TESTS FOR A GIVEN CLASS OF CONCRETE, CONDUCT TESTING FROM AT LEAST 5 RANDOMLY SELECTED BATCHES OR FROM EACH BATCH IF FEWER THAN 5 ARE USED.

B.

WHEN STRENGTH OF FIELD-CURED CYLINDERS IS LESS THAN 85 PERCENT OF COMPANTON LABORATORY-CURED CYLINDERS, EVALUATE CURRENT OPERATIONS AND PROVIDE CORRECTIVE PROCEDURES FOR PROTECTING AND CURING THE IN-PLACE CONCRETE.

C.

STRENGTH LEVEL OF CONCRETE WILL BE CONSIDERED SATISFACTORY IF AVERAGES OF SETS OF THREE CONSECUTIVE STRENGTH TEST RESULTS EQUAL OR EXCEED SPECIFIED COMPRESSIVE STRENGTH, AND NO INDIVIDUAL STRENGTH TEST RESULTS FALLS BELOW SPECIFIED COMPRESSIVE STRENGTH BY MORE THAN 500 PSI.

QC.8

TEST RESULTS WILL BE REPORTED IN WRITING TO OWNER, STRUCTURAL ENGINEER, ARCHITECT AND CONTRACTOR. REPORTS OF COMPRESSIVE STRENGTH TESTS SHALL CONTAIN THE PROJECT IDENTIFICATION NAME AND NUMBER, DATE OF CONCRETE PLACEMENT, NAME OF CONCRETE TESTING AGENCY, CONCRETE TYPE AND CLASS, LOCATION OF CONCRETE BATCH IN STRUCTURE, DESIGN COMPRESSIVE STRENGTH AT 28 DAYS, CONCRETE MIX PROPORTIONS AND MATERIAL; COMPRESSIVE BREAKING STRENGTH AND TYPE OF BREAK FOR BOTH 7-DAY TESTS AND 28-DAY TESTS.

QC.9

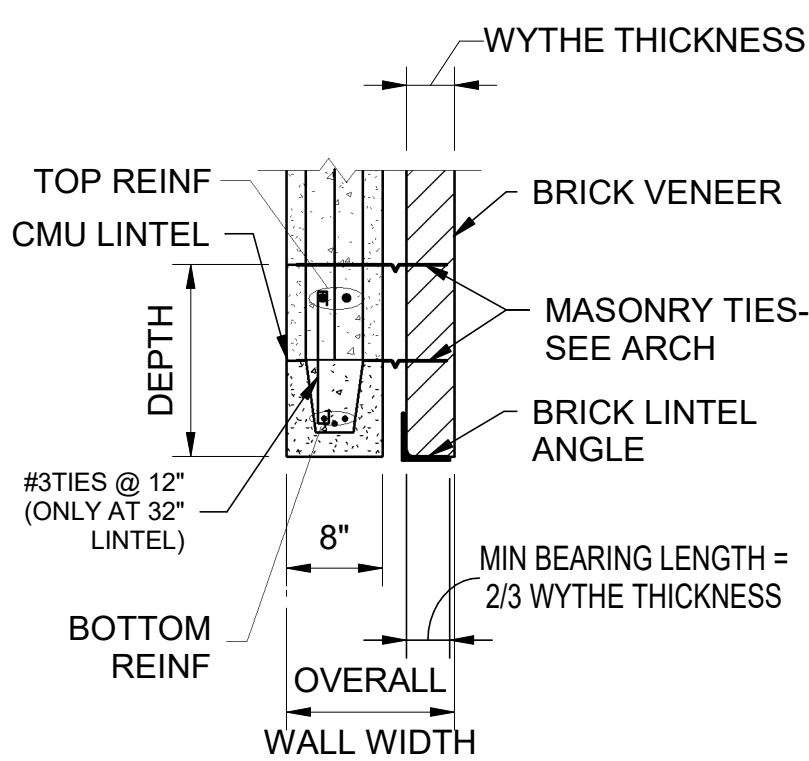
NONDESTRUCTIVE TESTING: IMPACT HAMMER, SONOSCOPE, OR OTHER NONDESTRUCTIVE DEVICE MAY BE PERMITTED BUT SHALL NOT BE USED AS THE SOLE BASIS FOR ACCEPTANCE OF REJECTION.

QC.10

ADDITIONAL TESTS: THE TESTING AGENCY WILL MAKE ADDITIONAL TESTS OF IN-PLACE CONCRETE WHEN TEST RESULTS INDICATE SPECIFIED CONCRETE STRENGTHS AND OTHER CHARACTERISTICS HAVE NOT BEEN ATTAINED IN THE STRUCTURE, AS DIRECTED BY THE STRUCTURAL ENGINEER. CONTRACTOR SHALL PAY FOR SUCH TESTS CONDUCTED, AND ANY OTHER ADDITIONAL TESTING AS MAY BE REQUIRED, WHEN UNACCEPTABLE CONCRETE IS VERIFIED.

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Fastening Schedule		
CONNECTION	FASTENING (Notes A, M)	LOCATION
1. JOIST TO SILL OR GIRDER	3 - 8d COMMON 3 - 3"x0.131" NAILS 3 - 3" 14 GAGE STAPLES	TOENAIL
2. BRIDGING TO JOIST	2 - 8d COMMON 2 - 3"x0.131" NAILS 2 - 3" 14 GAGE STAPLES	TOENAIL EACH END
6. SOLE PLATE TO JOIST OR BLOCKING	16d AT 16" OC 3"x0.131" NAILS @ 8" OC 3" 14 GAGE STAPLES @ 12" OC	TYPICAL FACE NAIL
SOLE PLATE TO JOIST OR BLOCKING AT BRACED WALL PANEL	3 - 16d @ 16" OC 4 - 3"x0.131" NAILS @ 16" 4 - 3" 14 GAGE STAPLES PER 16"	BRACED WALL PANELS
7. TOP PLATE TO STUD	2 - 16d COMMON 3 - 3"x0.131" NAILS 3 - 3" 14 GAGE STAPLES	END NAIL
8. STUD TO SOLE PLATE	4 - 8d COMMON 4 - 3"x0.131" NAILS 3 - 3" 14 GAGE STAPLES 2 - 16d COMMON 3 - 3"x0.131" NAILS 3 - 3" 14 GAGE STAPLES	TOENAIL END NAIL
9. DOUBLE STUDS	16d @ 24" OC 3"x0.131" NAILS @ 8" OC 3" 14 GAGE STAPLES 8" OC	FACE NAIL
10. DOUBLE TOP PLATES	16d @ 16" OC 3"x0.131" NAILS @ 12" OC 3" 14 GAGE STAPLES @ 12" OC	TYPICAL FACE NAIL
DOUBLE TOP PLATES	8 - 16d COMMON 12 - 3"x0.131" NAILS 12 - 3" 14 GAGE STAPLES	LAP SPLICE
11. BLOCKING BETWEEN JOIST OR RAFTERS TO TOP PLATE	3 - 8d COMMON 3 - 3"x0.131" NAILS 3 - 3" 14 GAGE STAPLES	TOENAIL
12. RIM JOIST TO TOP PLATE	8d @ 6" OC 3"x0.131" NAILS @ 6" OC 3" 14 GAGE STAPLES @ 6" OC	TOENAIL
13. TOP PLATES, LAPS AND INTERSECTIONS	2 - 16d COMMON 3 - 3"x0.131" NAILS 3 - 3" 14 GAGE STAPLES	FACE NAIL
14. CONTINUOUS HEADER, TWO PIECES	16d COMMON	16" OC ALONG EDGE
15. CEILING JOIST TO PLATE	3 - 8d COMMON 5 - 3"x0.131" NAILS 5 - 3" 14 GAGE STAPLES	TOENAIL
16. CONTINUOUS HEADER TO STUD	4 - 8d COMMON	TOENAIL
17. CEILING JOIST, LAP OVER PARTITIONS (SEE SECTION 2308.10.4.1, TABLE 2308.10.4.1)	3 - 16d COMMON MINIMUM, TABLE 2308.10.4.1 4 - 3"x0.131" NAILS 4 - 3" 14 GAGE STAPLES	FACE NAIL
18. CEILING JOIST TO PARALLEL RAFTERS (SEE SECTION 2308.10.4.1, TABLE 2308.10.4.1)	3 - 16d COMMON MINIMUM, TABLE 2308.10.4.1 4 - 3"x0.131" NAILS 4 - 3" 14 GAGE STAPLES	FACE NAIL
19. RAFTER TO PLATE (SEE SECTION 2308.10.1, TABLE 2308.10.1)	3 - 8d COMMON 3 - 3"x0.131" NAILS 3 - 3" 14 GAGE STAPLES	TOENAIL
20. 1" DIAGONAL BRACE TO EACH STUD AND PLATE	2 - 8d COMMON 2 - 3"x0.131" NAILS 2 - 3" 14 GAGE STAPLES	FACE NAIL
23. BUILT-UP CORNER STUDS	16d COMMON 3"x0.131" NAILS 3" 14 GAGE STAPLES	24" OC 16" OC 16" OC
24. BUILT-UP GIRDER AND BEAMS	20d COMMON 32" OC 3"x0.131" NAIL @ 24" OC 3" 14 GAGE STAPLES @24" OC	FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES
	2 - 20d COMMON 3 - 3"x0.131" NAILS 3 - 3" 14 GAGE STAPLES	FACE NAIL AT ENDS AND AT EACH SPLICE
29. JOIST TO BAND JOIST	3 - 16d COMMON 5 - 3"x0.131" NAILS 5 - 3" 14 GAGE STAPLES	FACE NAIL
30. LEDGER STRIP	3 - 16d COMMON 4 - 3"x0.131" NAILS 4 - 3" 14 GAGE STAPLES	FACE NAIL



Masonry Lintel Schedule				
MAXIMUM OPENING WIDTH	BRICK LINTEL ANGLE	CMU LINTEL DIMENSIONS AND REINFORCING		
		DEPTH	8" WALL	
2'-0"	L3 1/2x3 1/2x3/8	8	1#4 BOT	
4'-0"	L3 1/2x3 1/2x3/8	8	1#5 BOT	
6'-0"	L3 1/2x3 1/2x3/8	16	2#5 BOT & 2#5 TOP	
8'-0"	L5x3 1/2x3/8	16	2#5 BOT & 2#5 TOP	
16'-0"	---	32	2#6 BOT & 2#6 TOP	

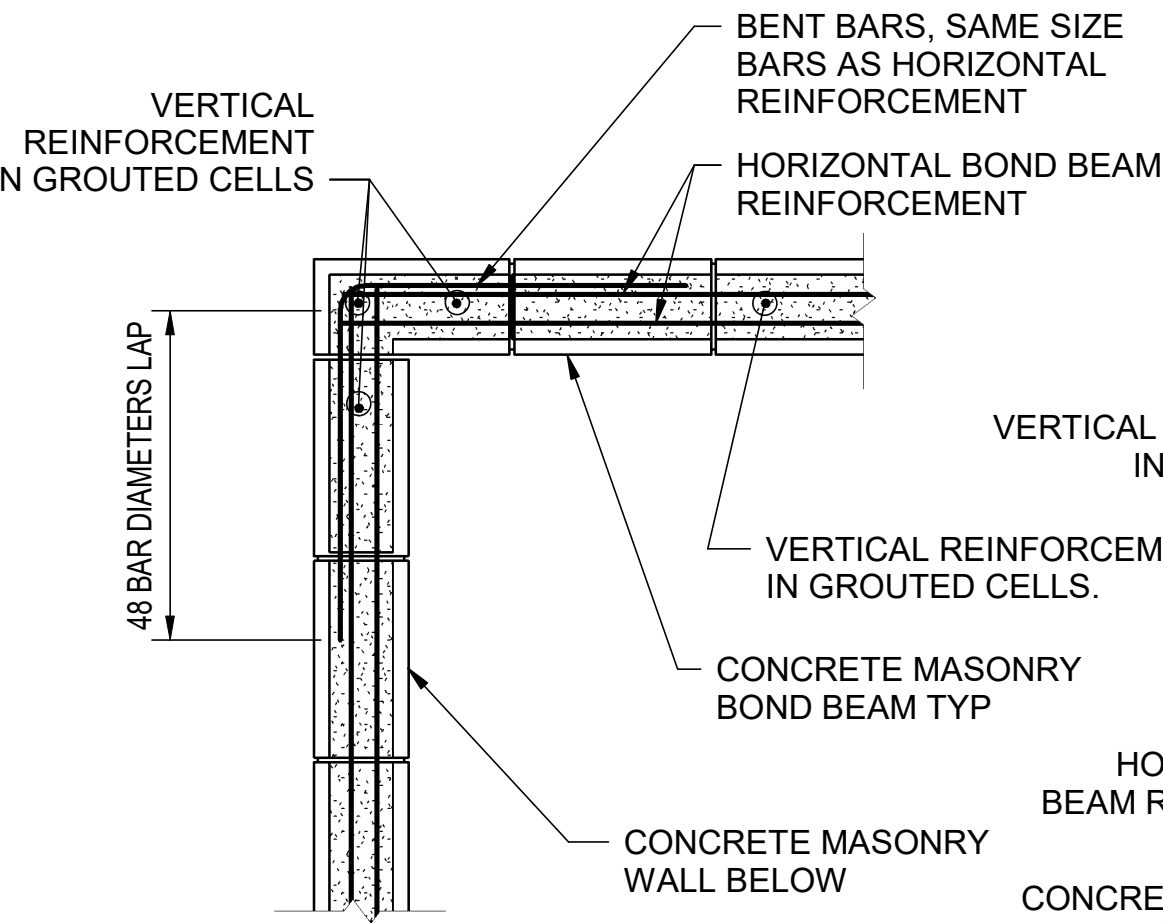
- DO NOT USE THIS SCHEDULE IF CONCENTRATED LOAD IS APPLIED TO THE LINTEL AT A HEIGHT LESS THAN HALF THE SPAN ABOVE THE LINTEL, OR IF STACK BOND IS SPECIFIED.
- PROVIDE 8" MINIMUM BEARING FOR ALL LINTELS. FOR LINTELS GREATER THAN 6'-0" FILL CELLS SOLID AT EACH SIDE OF OPENING.

Masonry Lintel Detail and Schedule

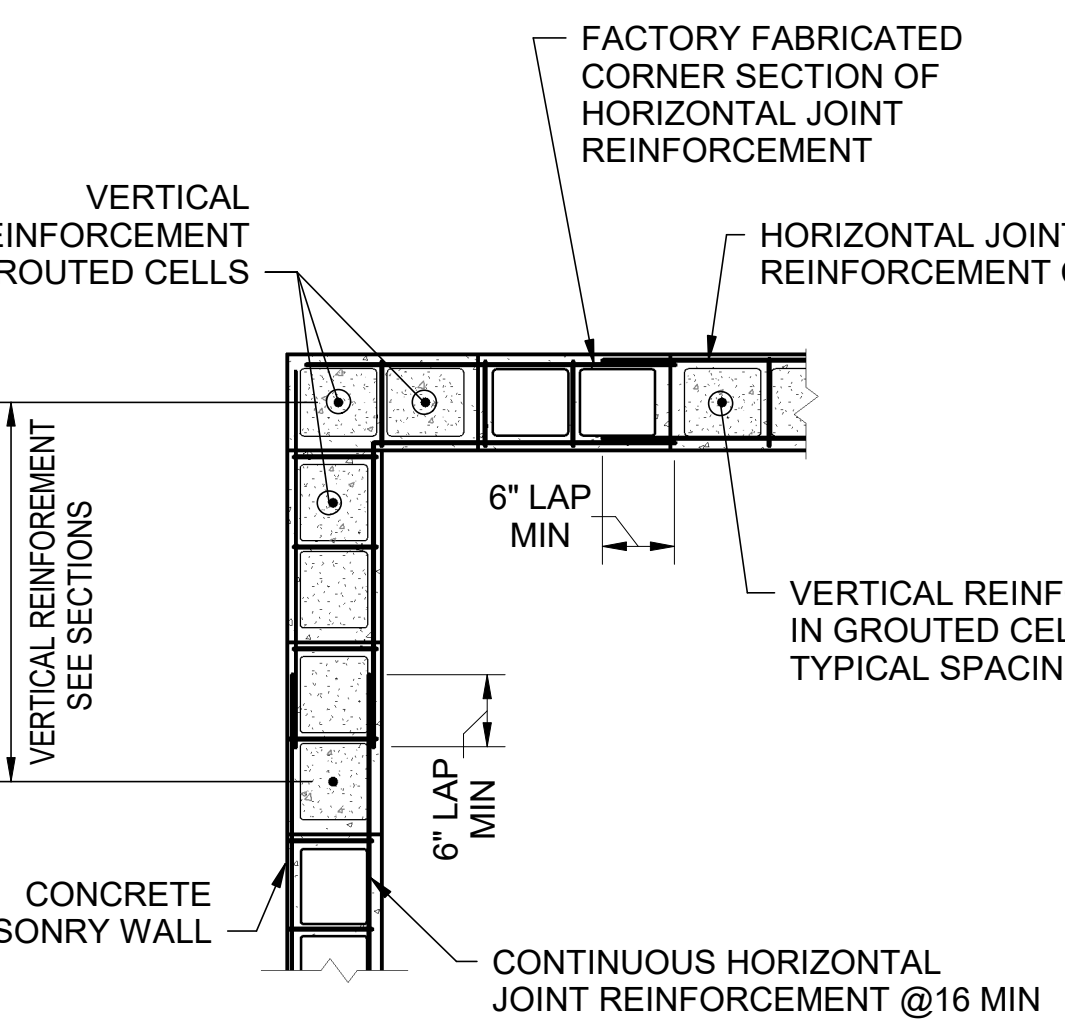
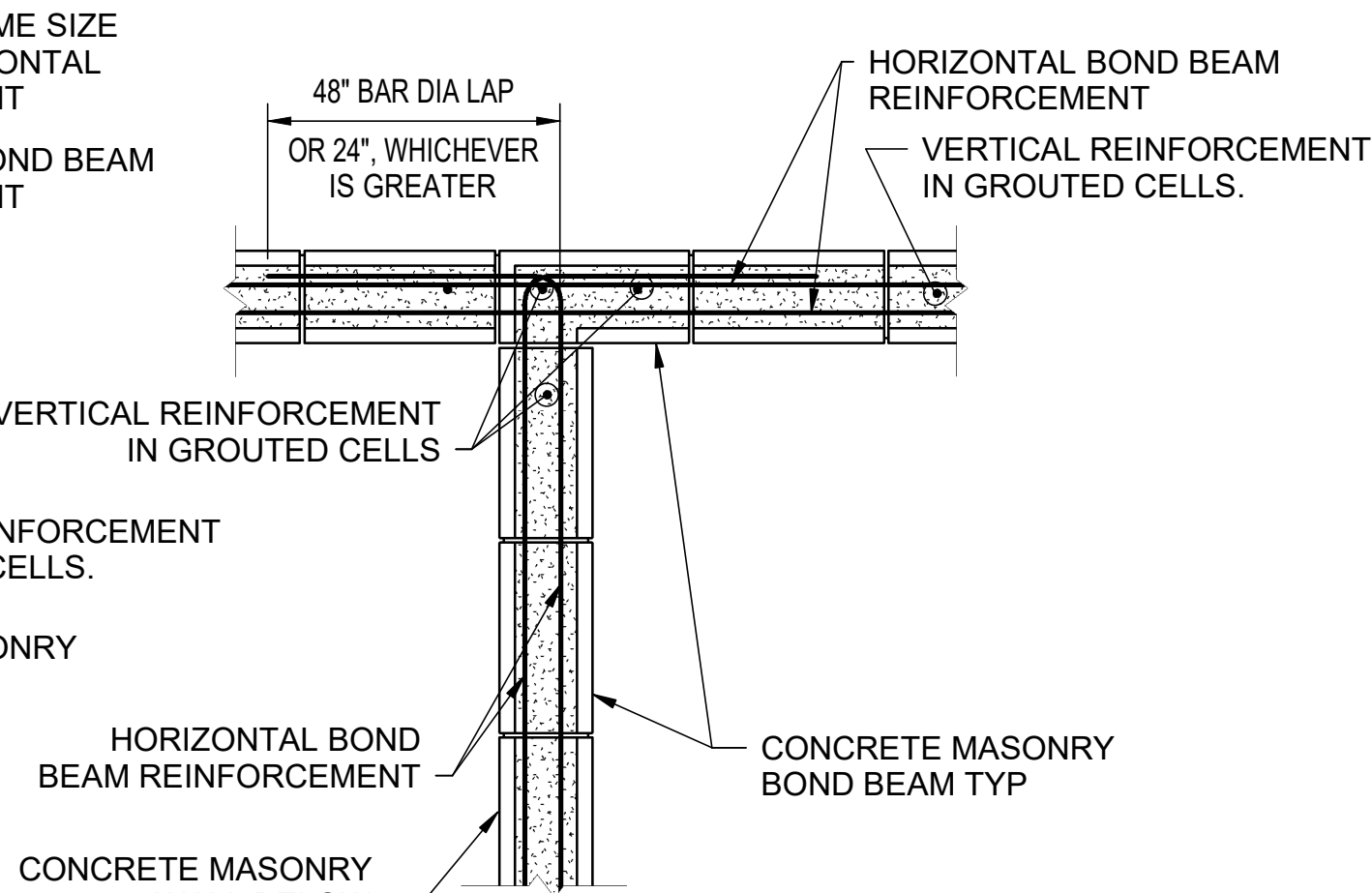
Masonry Tension Lap Splice Lengths		
BAR SIZE	f'm = 2000	
	8" CMU	2" COVER
#3	18"	13"
#4	18"	22"
#5	20"	35"
#6	38"	64"

1. VALUES FOR 8" CMU TO BE USED FOR BARS CENTERED IN WALL. VALUES FOR 2" COVER TO BE USED FOR BOND BEAMS/LINTELS W/ (2) BARS IN A SINGLE LAYER.

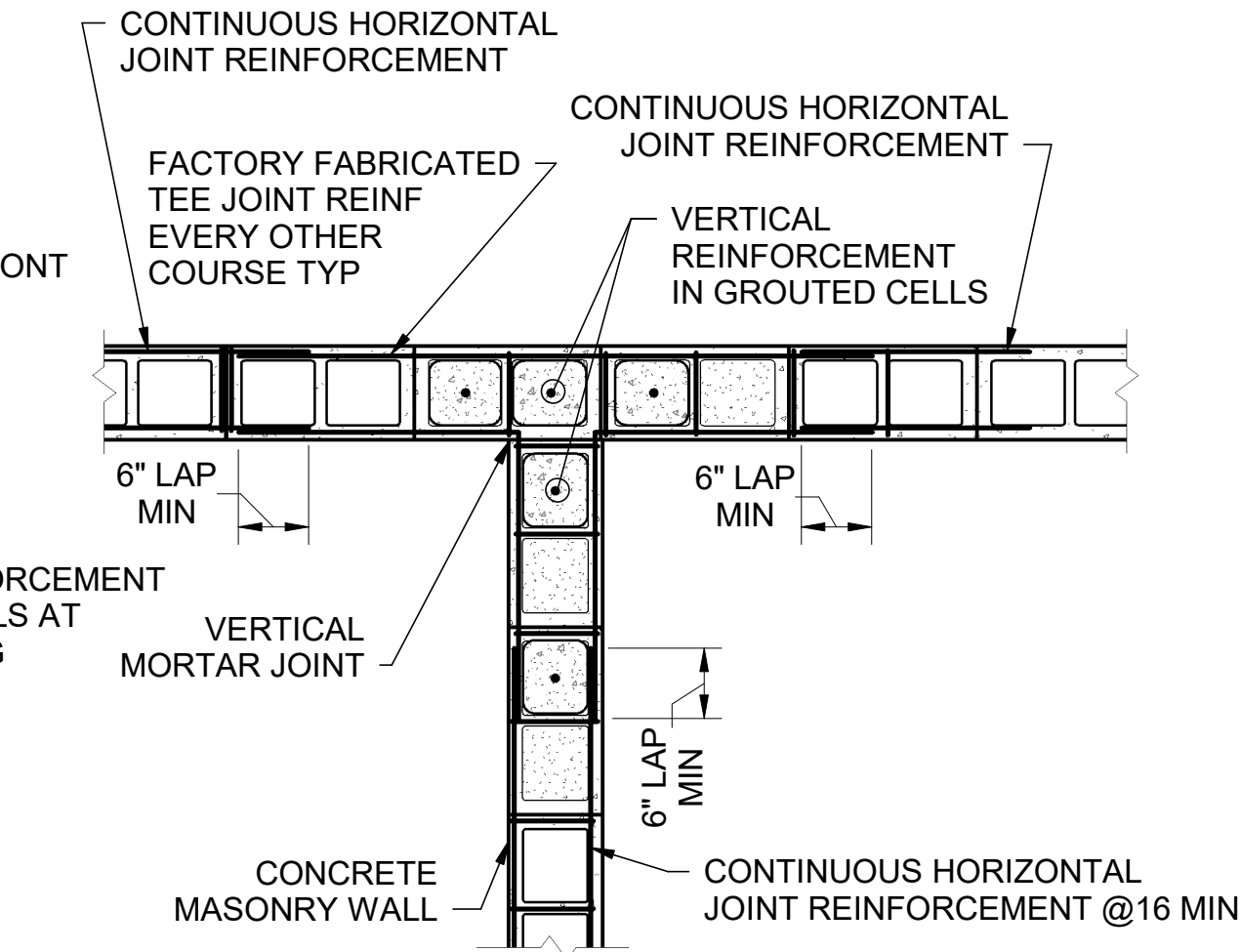
Plan Showing Bond Beam Reinforcement at Wall Corner



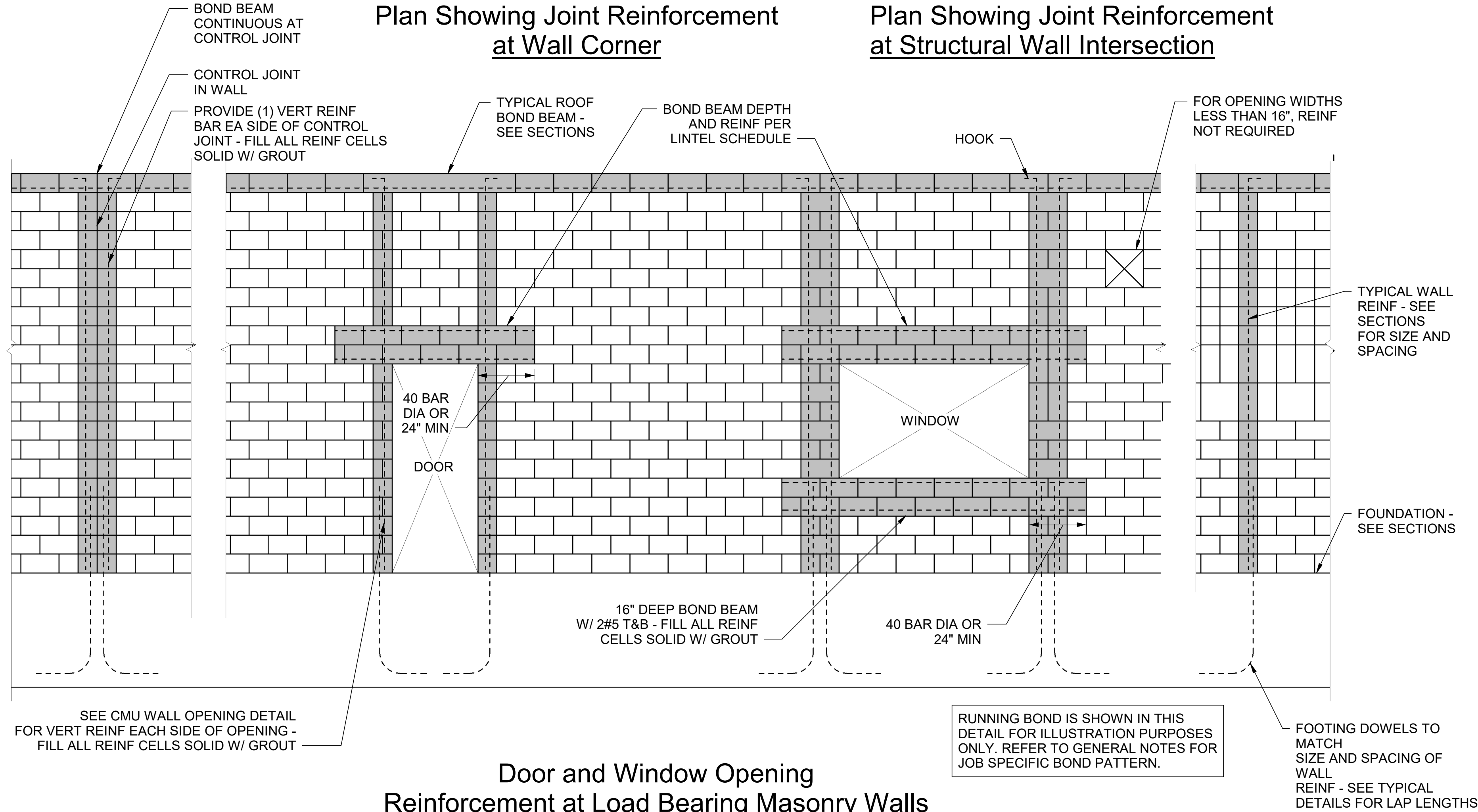
Plan Showing Bond Beam Reinforcement at Structural Wall Intersection



Plan Showing Joint Reinforcement at Wall Corner



Plan Showing Joint Reinforcement at Structural Wall Intersection



Door and Window Opening Reinforcement at Load Bearing Masonry Walls

Abbreviations

ABOVE FINISH FLOOR
ADDITIONAL
ADJACENT
AIR CONDITIONER
AIR HANDLING UNIT
ALTERNATE
ANCHOR
ANCHOR ROD
AND
APPROVED
APPROXIMATE
ARCHITECTURAL
ARCHITECTURALLY EXPOSED
STRUCTURAL STEEL
AT (WHEN INDICATING
SPACING ONLY)

BACK TO BACK
BALANCE
BASEMENT
BASE PLATE
BEAM
BEARING
BELOW FINISH FLOOR
BETWEEN
BLOCK
BLOCKING
BOTTOM
BOTTOM CHORD EXTENSION
BRICK
BRIDGING
BUILDING

CAST IN PLACE
CENTER
CENTERLINE
CENTER TO CENTER
CHANNEL
CLEAR OR CLEARANCE
COLUMN
COMPLETE JOINT PENETRATION
COMPRESSION
CONCRETE
CONCRETE MASONRY UNIT
CONNECTION(S)
CONTINUOUS
CONTRACTOR
CONSTRUCTION
CONTROL JOINT
CORNER
COORDINATE
COVER PLATE

DEGREE
DEGREE CELSIUS
DEGREE FAHRENHEIT
DETAIL
DEAD LOAD
DIAGONAL
DIAMETER
DIMENSION(S)
DRAWING(S)
DRILLED PIER
DOUBLE
DOUBLE EXTRA STRONG
DOWEL(S)
DOWN

EACH
EACH FACE
EACH WAY
EDGE OF DECK
EDGE OF SLAB
ELECTRICAL
ELEVATION
ELEVATOR
EMBEDMENT
ENGINEER
ENGR
EQUAL
EQUIPMENT
EXISTING
EXPANSION
EXPANSION ANCHOR
EXPANSION JOINT
EXTENSION
EXTERIOR
EXTRA STRONG

FABRICATOR
FACE TO FACE
FACE OF STUD
FAR SIDE
FASTENER
FIELD VERIFY
FINISH(ED)
FINISHED FLOOR
FLANGE
FLOOR
FLOOR DRAIN
FOOT
FOOTING
FOUNDATION
FRAMING

GAGE OR GAUGE
GALVANIZED
GENERAL
GENERAL CONTRACTOR
GOVERNMENT
GRADE
GRADE BEAM
GROUND

HARD ROCK
HEADED STUD(S)
HEIGHT
HIGH STRENGTH
HOOK
HORIZONTAL

INFORMATION
INSIDE DIAMETER
INSIDE FACE
INTERIOR
INTERMEDIATE

- AFF
- ADDNL
- ADJ
- A/C
- AHU
- ALT
- ANC
- AR
- &
- APPRV
- APPROX
- ARCH.
- AESS
- @

- B TO B
- BAL
- BSMT
- BSPL
- BM
- BRG
- BFF
- BTWN
- BLK
- BLKG
- BOT
- BCX
- BRK
- BRDG
- BLDG

- CIP
- CTR
- CL
- C TO C
- C
- CLR
- COL
- CJP
- COMP
- CONC
- CMU
- CONN(S)
- CONT
- CONTR
- CONST
- CJ
- COR
- COORD
- COV PL

- DEG OR °
- C°
- F°
- DET
- DIA or Ø
- DIM(S)
- DWG(S)
- DP
- DBL
- XXS
- DWL(S)
- DN

- EA
- EF
- EW
- EOD
- EOS
- ELEC
- EL
- ELEV
- EMBED.
- ENGR
- EQ
- EQUIP.
- EXIST.
- EXP
- EXP ANC
- EJ
- EXTN
- EXT
- XS

- FABR
- F TO F
- FOS
- FS
- FAS
- FV
- FIN.
- FF
- FLG
- FLR
- FD
- FT
- FTG
- FDN
- FRMG

- GA
- GALV
- GEN
- GC
- GOVT
- GR
- GB
- GRD

- HD RK
- H STUD(S)
- HT
- HS
- HK
- HORZ

- INFO
- ID
- I.F.
- INT
- INTM

JOINT
JOIST(S)
JOIST GIRDER

KIPS (1000 LBS)
KIPS PER LINEAL FOOT
KIPS PER SQUARE INCH
KIPS PER SQUARE FOOT

LIGHTWEIGHT CONCRETE
LIVE LOAD
LONGITUDINAL
LONG LEG HORIZONTAL
LONG LEG VERTICAL

MANUFACTURE(R)
MASONRY
MASONRY OPENING
MATERIAL
MECHANICAL
MEZZANINE
MIDDLE
MINIMUM
MISCELLANEOUS
MOMENT
MOMENT CONNECTION(S)

NEAR FACE
NEAR SIDE
NOMINAL
NOT IN CONTRACT
NOT TO SCALE
NUMBER

ON CENTER
OPENING(S)
OPPOSITE
OUTSIDE FACE
OUTSIDE DIAMETER
OUTSTANDING LEG

PARALLEL
PARTITION(S)
PENETRATION
PERMANENT
PERPENDICULAR
PLATE
PLUMBING
PNEUMATIC
POST-TENSION
POUNDS
POUNDS PER LINEAL FOOT
POUNDS PER SQUARE INCH
POUNDS PER SQUARE FT
POUNDS PER CUBIC YARD
POUNDS PER CUBIC INCH
PRECAST CONCRETE
PREENGINEERED METAL BUILDING
PREFABRICATED
PRELIMINARY
PRESSURE INJECTED FOOTING
PROJECTION

RADIUS
REFERENCE
REINFORCED CONC PIPE
REINFORCING
REQUIRED
RISER
ROOF
ROOF DRAIN
ROOF TOP UNIT
ROOM
ROUND

SCHEDULE
SECTION
SHEAR
SHEET
SIMILAR
SPACE
SPECIFICATION(S)
SPECIFIED
SQUARE
STANDARD
STEEL
STIFFENER
STRAIGHT
STIRRUPS
STRUCTURE OR STRUCT'L
SYMMETRICAL
SUPPORT(S)

TEMPERATURE
TENSION
THICK
TONGUE AND GROOVE
TOP AND BOTTOM
TOP CHORD EXTENSION
TOP OF BEAM
TOP OF FOOTING
TOP OF GRADE BEAM
TOP OF JOIST
TOP OF PIER
TOP OF PILE CAP
TOP OF STEEL
TOP OF WALL
TREAD
TYPICAL

UNLESS NOTED

VERTICAL

WATERPROOFING
WATERSTOP
WELDED WIRE REINFORCEMENT
WIND LOAD
WIND MOMENT CONNECTION
WINDOW
WITH
WITHOUT
WOOD
WORK POINT
WEIGHT
WIDE FLANGE

- JT
- JST(S)
- JG

- K
- KLF
- KSI
- KSF

- LWT CONC
- LL
- LONG.
- LLH
- LLV

- MFR
- MAS
- MO
- MATL
- MAX
- MECH
- MEZZ
- MID
- MIN
- MISC
- M
- MC

- NF
- NS
- NOM
- NIC
- NTS
- NO. or #

- OC
- OPNG(S)
- OPP
- O.F.
- OD
- OSL

- PAR.
- PARTN(S)
- PEN
- PERM
- PERP
- PL
- PLBG
- PNEU
- PT
- LBS
- PLF
- PSI
- PSF
- PCY
- PCI
- PC
- PEMB
- PREFAB
- PRELIM
- PIF
- PROJ

- R
- REF
- RCP
- REINF
- REQD
- RIS
- RF
- RD
- RTU
- RM
- RND

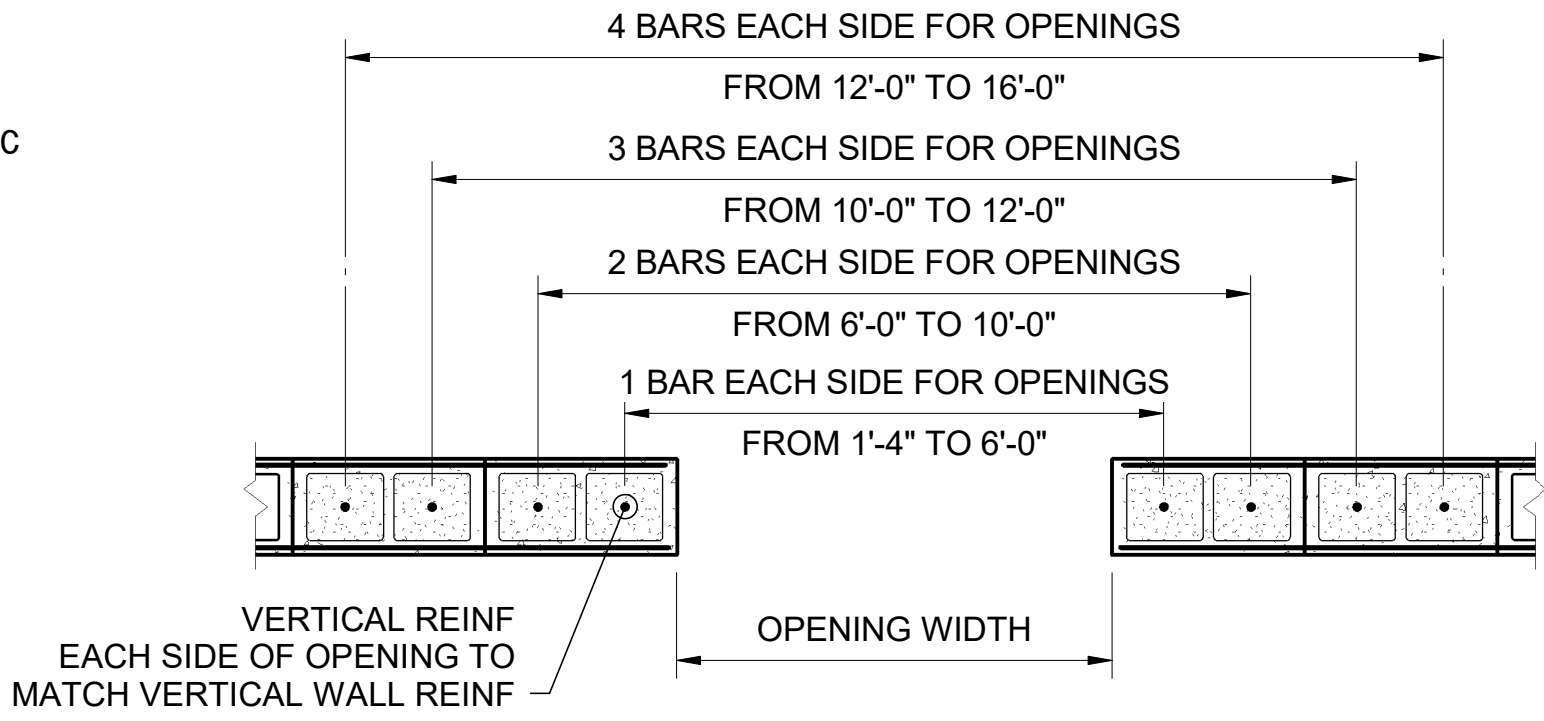
- SCHED
- SECT
- V
- SHT
- SIM
- SP
- SPEC(S)
- SPECD
- SQ
- STD
- STL
- STIFF.
- STR
- STIR.
- STRUCT
- SYM
- SUPT(S)

- TEMP
- T
- THK
- T&G
- T&B
- TCX
- TOB
- TOF
- TOGB
- TOJ
- T O.P.
- TOPC
- TOS
- TOW
- TR
- TYP

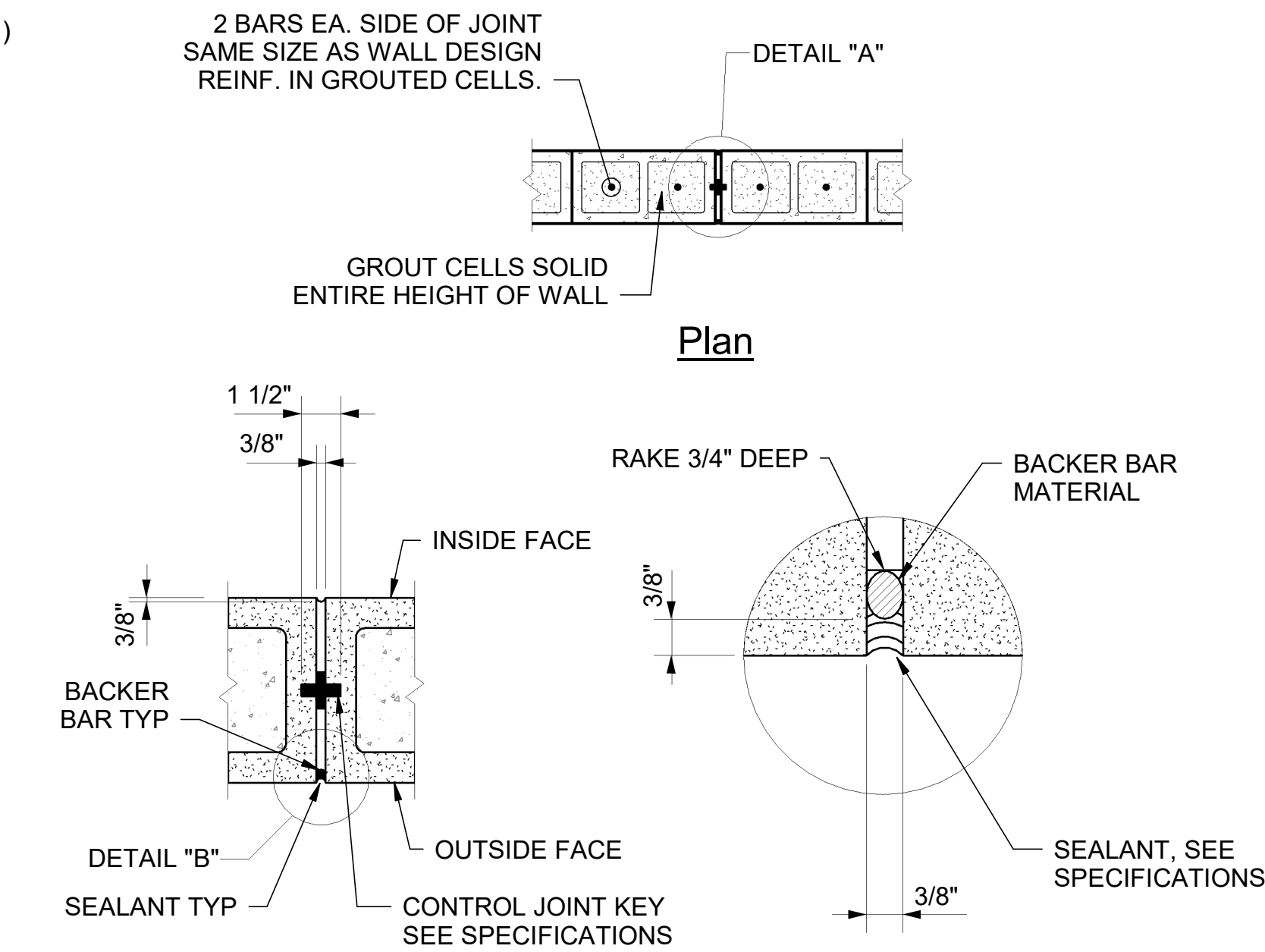
- U.N.

- VERT

- WPFG
- WS
- WWR
- WL
- WC
- WDW
- W/
- W/O
- WD
- WP
- WT
- WF



CMU Wall Opening Detail

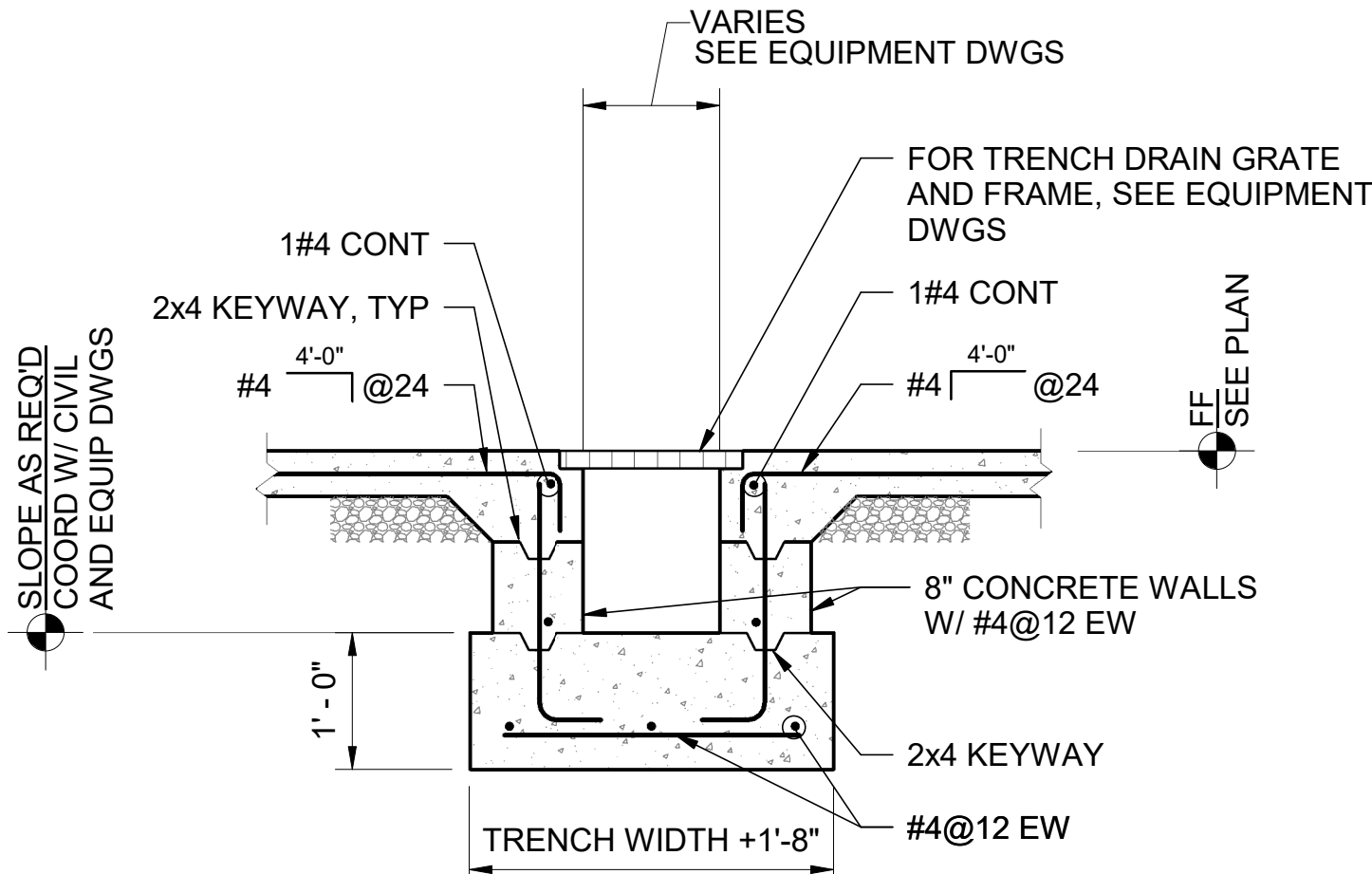
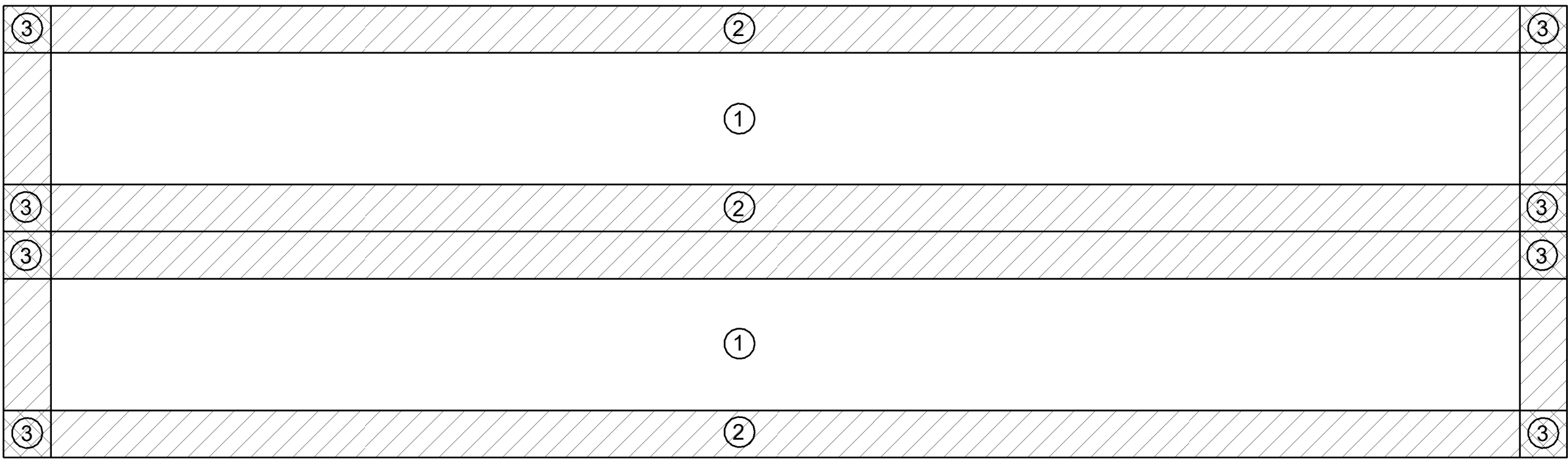


Detail "A"

Detail "B"

Masonry Control Joint

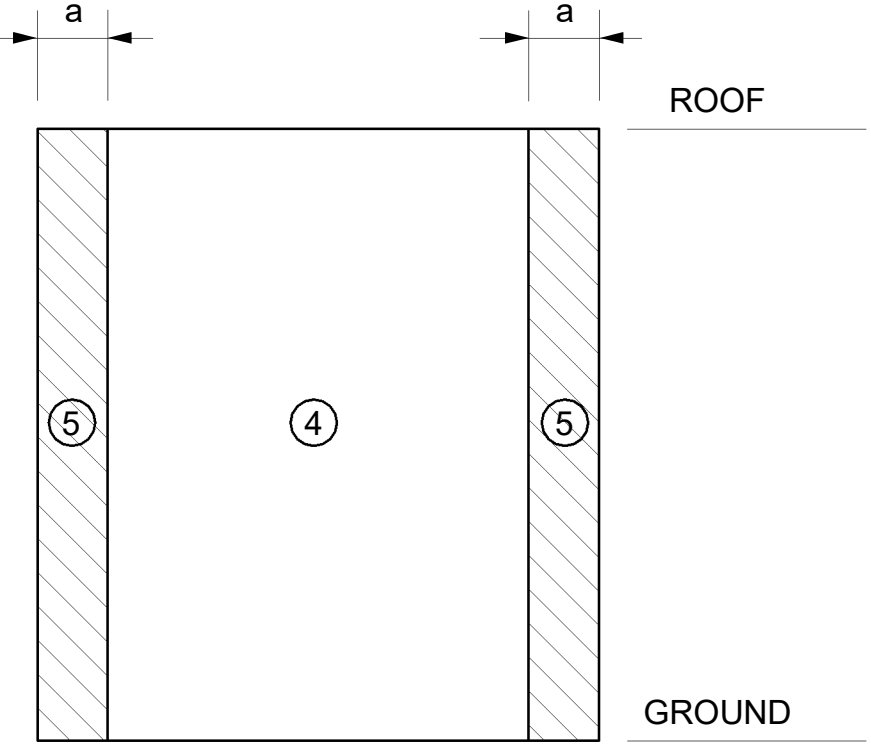
1. SEE ARCHITECTURAL DRAWINGS FOR VERTICAL MASONRY CONTROL JOINT LOCATIONS. VERTICAL MASONRY CONTROL JOINT SPACING NOT TO EXCEED 25'-0".

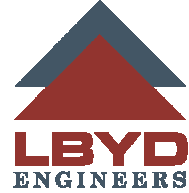


Exterior Trench Detail

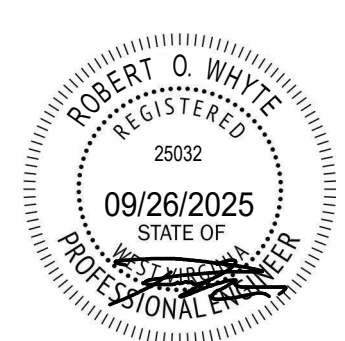
Concrete ReinforcingTension LapSplice Lengths				
BAR SIZE	f _C = 3000		f _C = 4500	
	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
#3	28"	22"	24"	19"
#4	37"	29"	32"	25"
#5	47"	36"	40"	31"
#6	56"	43"	48"	37"
#7	81"	63"	70"	54"

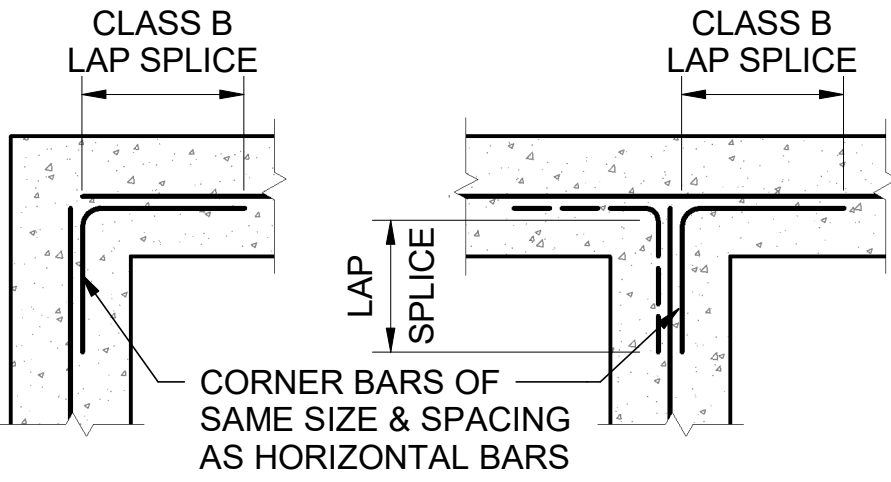
TOP BARS ARE HORIZONTAL REINFORCEMENT WITH MORE THAN 12" OF CONCRETE CAST BELOW THE REINFORCEMENT.



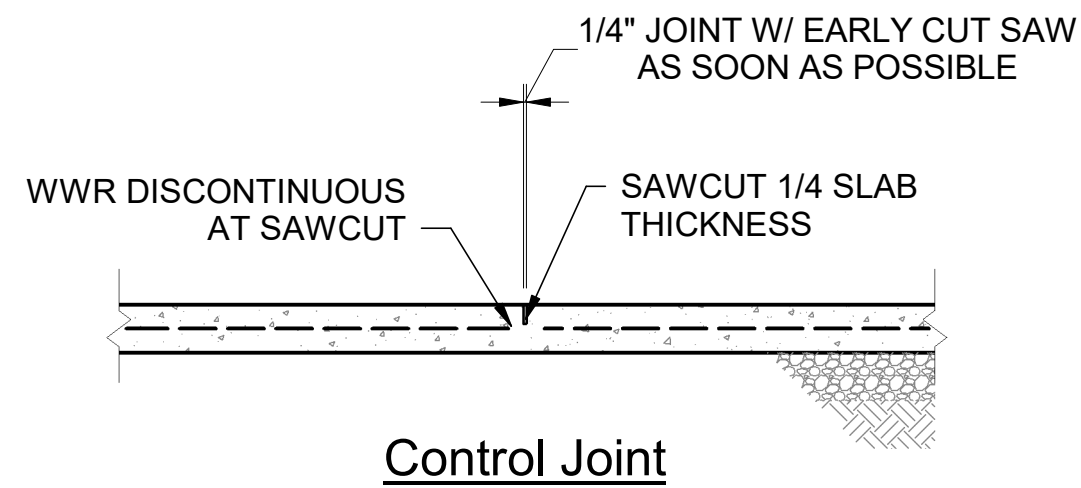


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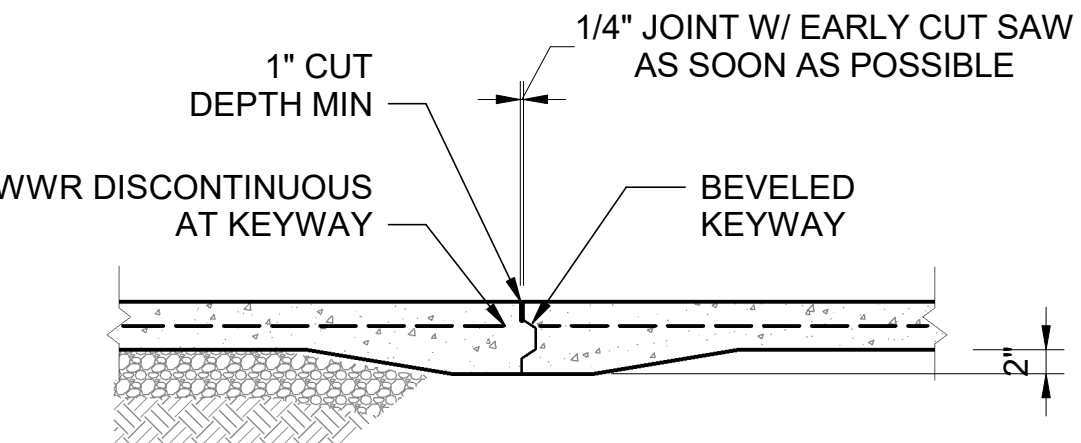




Wall Corner Reinforcing Detail



Control Joint



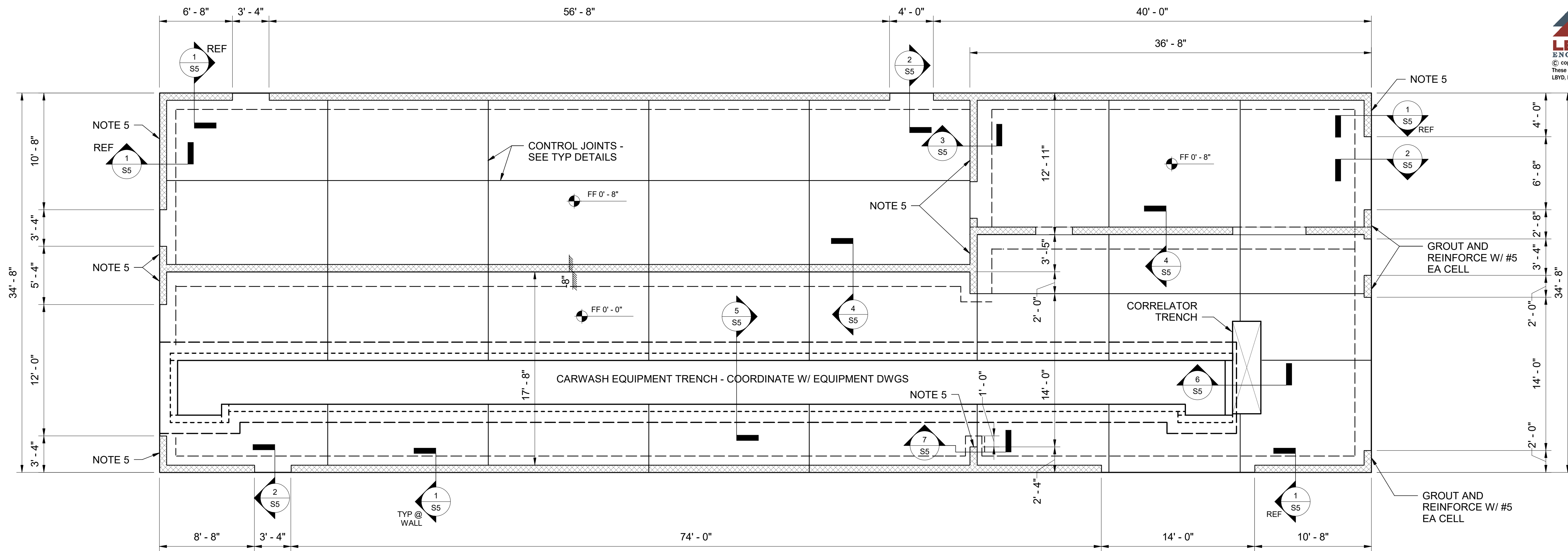
Construction Joint

NOTES:
1. CONTROL JOINT FILLER SEMI-RIGID EPOXY.
2. SAWCUT TO TAKE PLACE WITHIN 4-12 HOURS OF FINISHING CONCRETE: 4 HOURS IN HOT WEATHER, 12 HOURS IN COLD WEATHER.

Slab Control Joint Details

JOINT TYPE IS OPTIONAL

Components and Cladding Wind Pressures (Ultimate)			
ZONE	EFFECTIVE WIND AREA (SQ FT)	MAX +VE PRESSURE (PSF)	MAX -VE PRESSURE (PSF)
ZONE 1 ROOF INTERIOR ZONE	10	26.2	-36.1
	20	24.7	-35.4
	50	22.7	-34.4
	100	21.2	-33.6
ZONE 2 ROOF EDGE ZONE	10	26.2	-56.1
	20	24.7	-52.3
	50	22.7	-47.4
	100	21.2	-43.6
ZONE 3 ROOF CORNER ZONE	10	26.2	-78.5
	20	24.7	-74.0
	50	22.7	-68.0
	100	21.2	-63.5
ZONE 4 WALL INTERIOR ZONE	10	38.6	-41.1
	20	37.3	-39.8
	50	35.6	-38.0
	100	34.2	-36.7
ZONE 5 WALL EDGE ZONE	10	38.6	-48.6
	20	37.3	-45.9
	50	35.6	-42.4
	100	34.2	-39.8
WIDTH OF EDGE STRIP, a=4'-0"			
INTERNAL PRESSURE COEFFICIENT = ±0.18			



REVISIONS:	
1.	
2.	
3.	
4.	

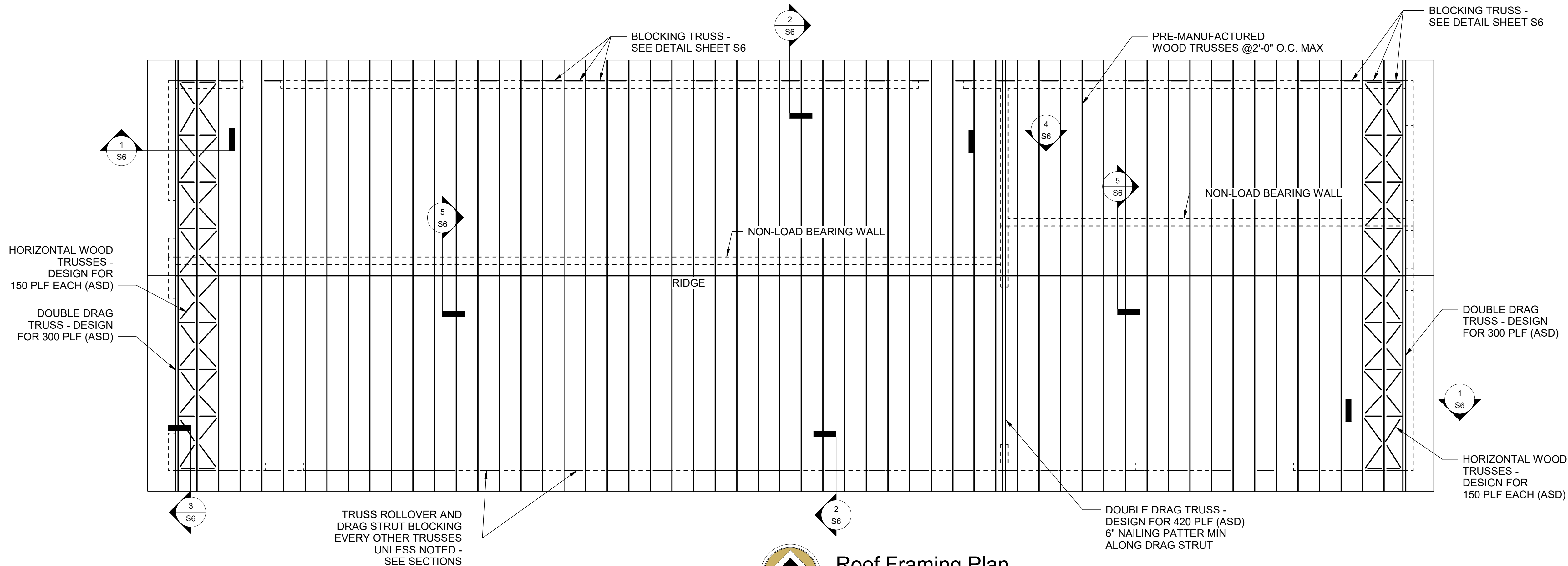
SHEET TITLE:	
Foundation and Roof Plan	
COMMISSION NUMBER:	DATE:
4044.02	27 JUN 2023
DRAWN BY:	CHECKED BY:
MBB	ROW



Foundation Plan

3/16" = 1'-0"

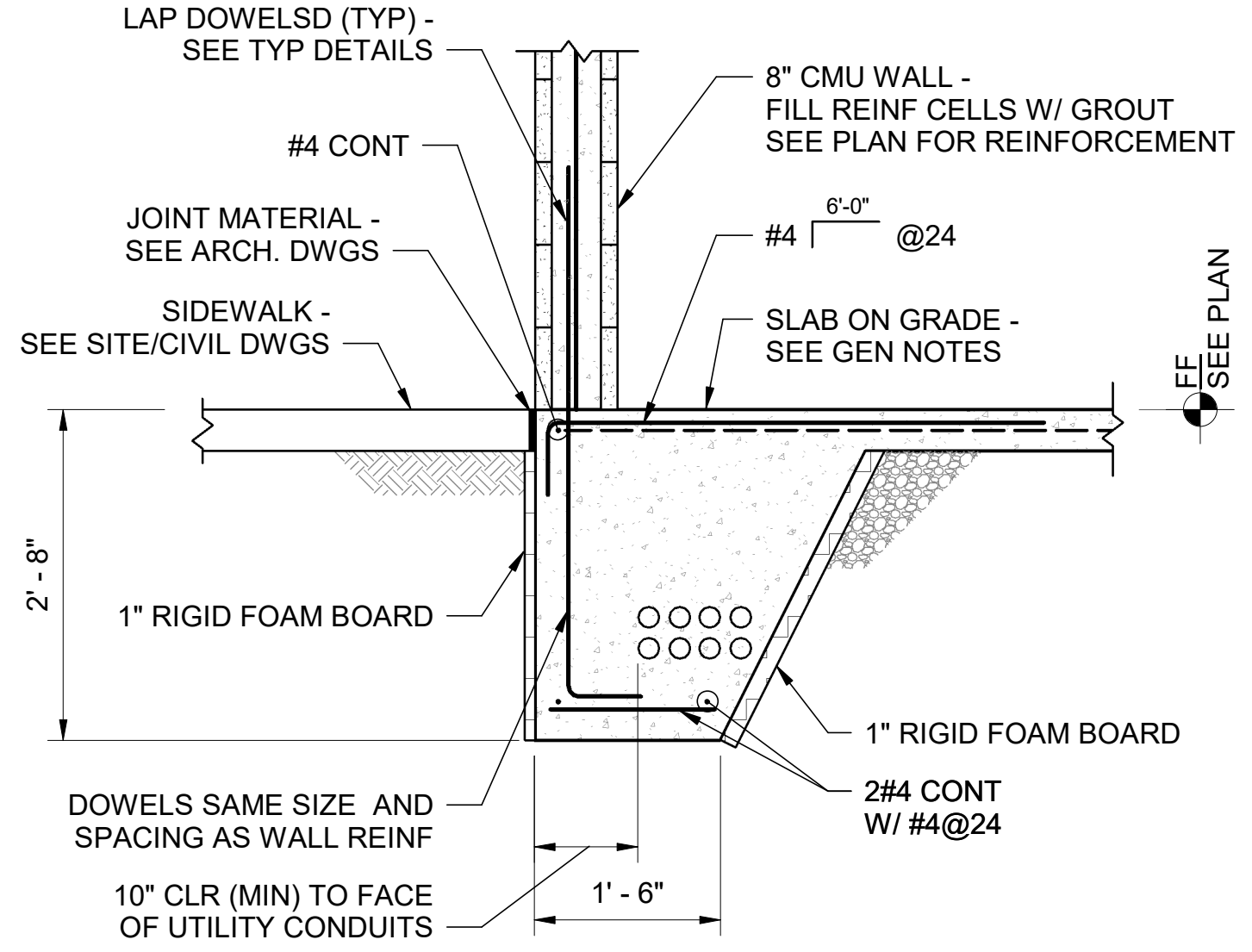
1. SEE ARCHITECTURAL DRAWINGS FOR FINISH SLAB ELEVATIONS AND SLOPES.
2. FOR SLAB ON GRADE CONSTRUCTION, SEE GENERAL NOTES AND TYPICAL DETAILS.
3. FULLY GROUT ALL CELLS USED FOR EQUIPMENT ATTACHMENT, FULL LENGTH OF WALL INDICATED. COORDINATE WITH EQUIPMENT DRAWINGS.
4. REINFORCE MASONRY WALLS WITH #4@48, UNLESS NOTED.
5. REINFORCE WALLS NOTED ON PLAN WITH #5@24. FULLY GROUT AND REINFORCE CELLS WITH #5 REBAR AT WALL OPENINGS AS SHOWN IN SCHEDULE ON SHEET S3.
6. COORDINATE TRENCH DIMENSIONS WITH EQUIPMENT DRAWINGS.



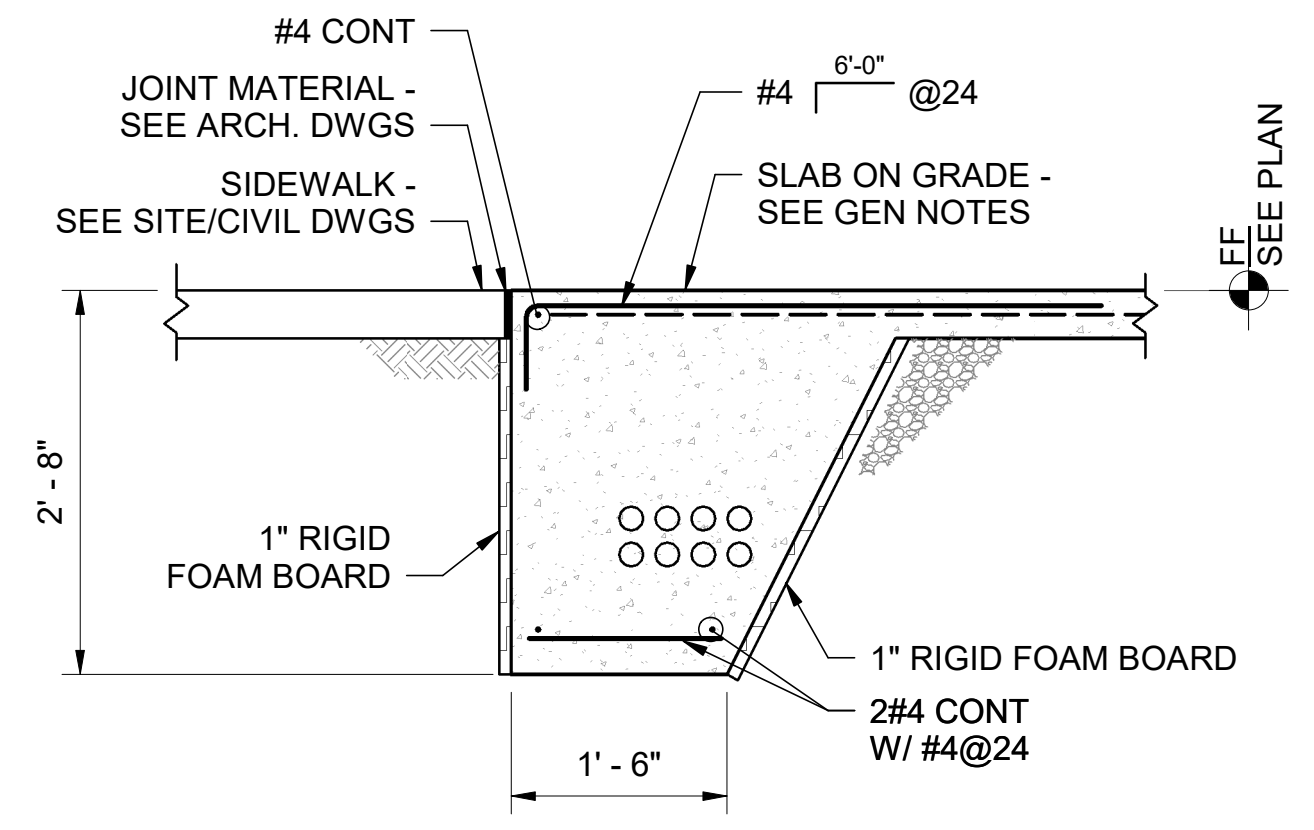
Roof Framing Plan

3/16" = 1'-0"

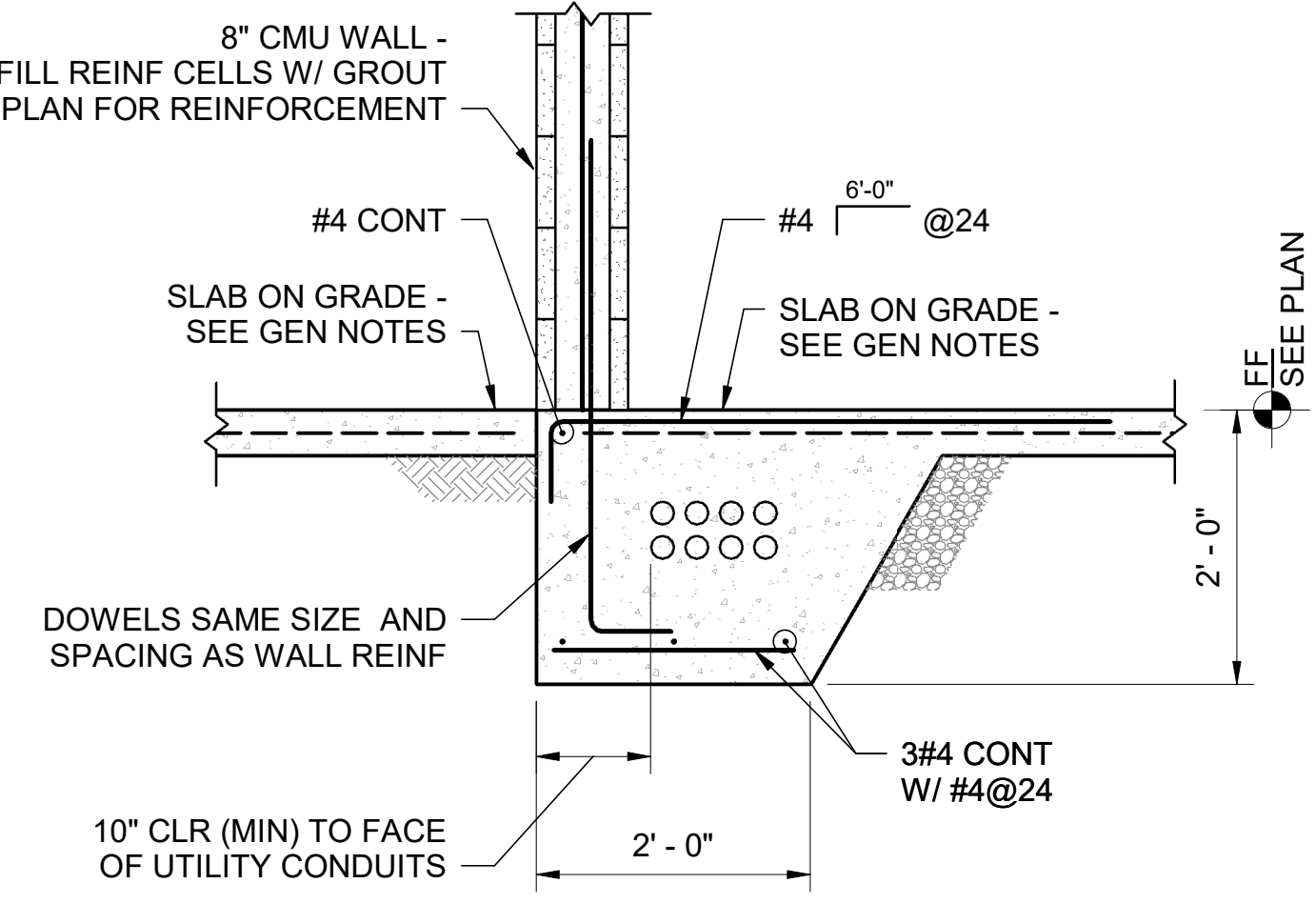
1. ROOF TRUSS BEARING ELEVATION: 12'-11" ABOVE FINISH FLOOR.
2. ROOF FRAMING SYSTEM: PLYWOOD DECKING ON PRE-FABRICATED WOOD TRUSSES AT 24", BEARING ON CMU WALLS. SEE GEN NOTES.



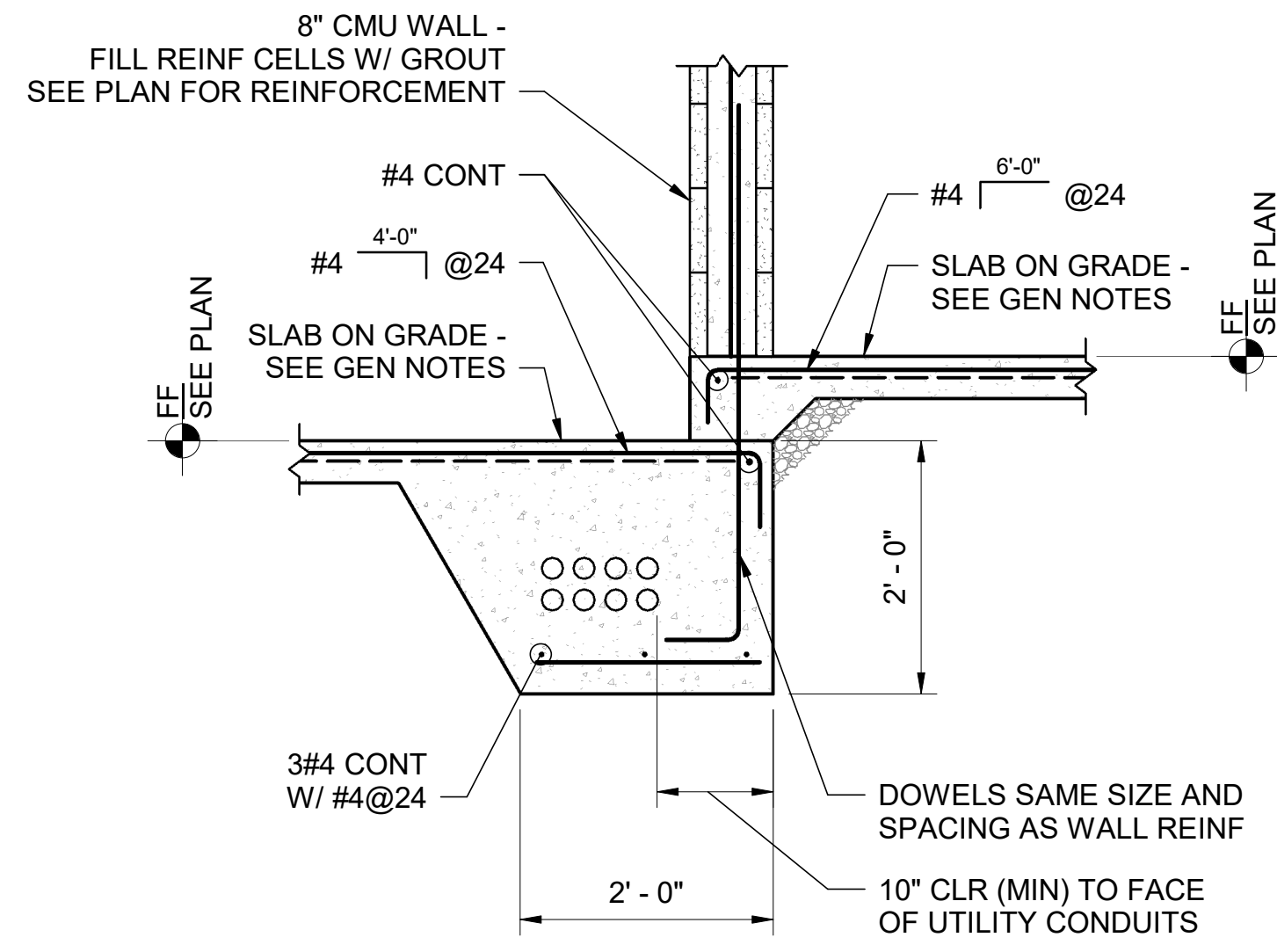
1 Section
S5 3/4" = 1'-0"



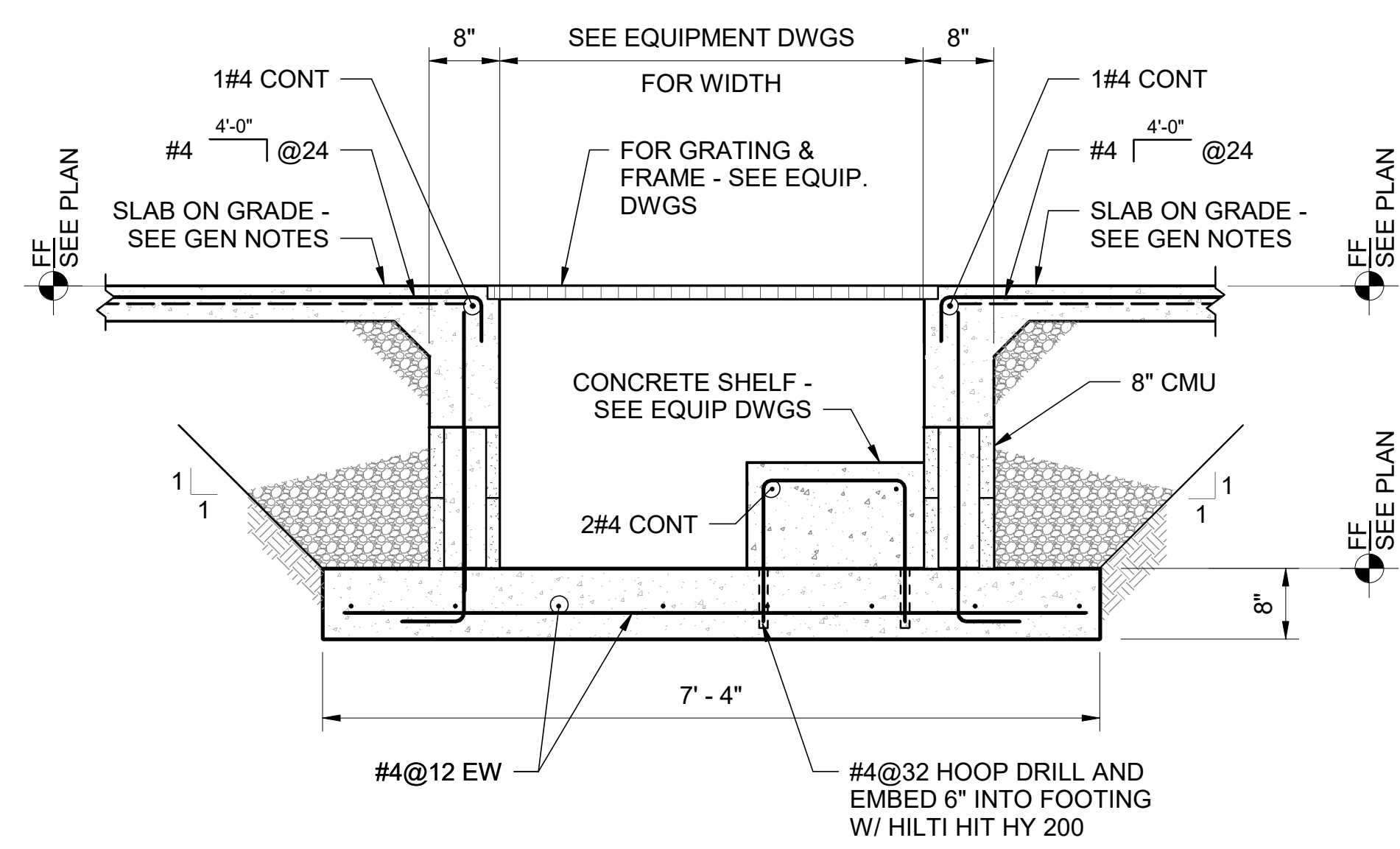
2 Section
S5 3/4" = 1'-0"



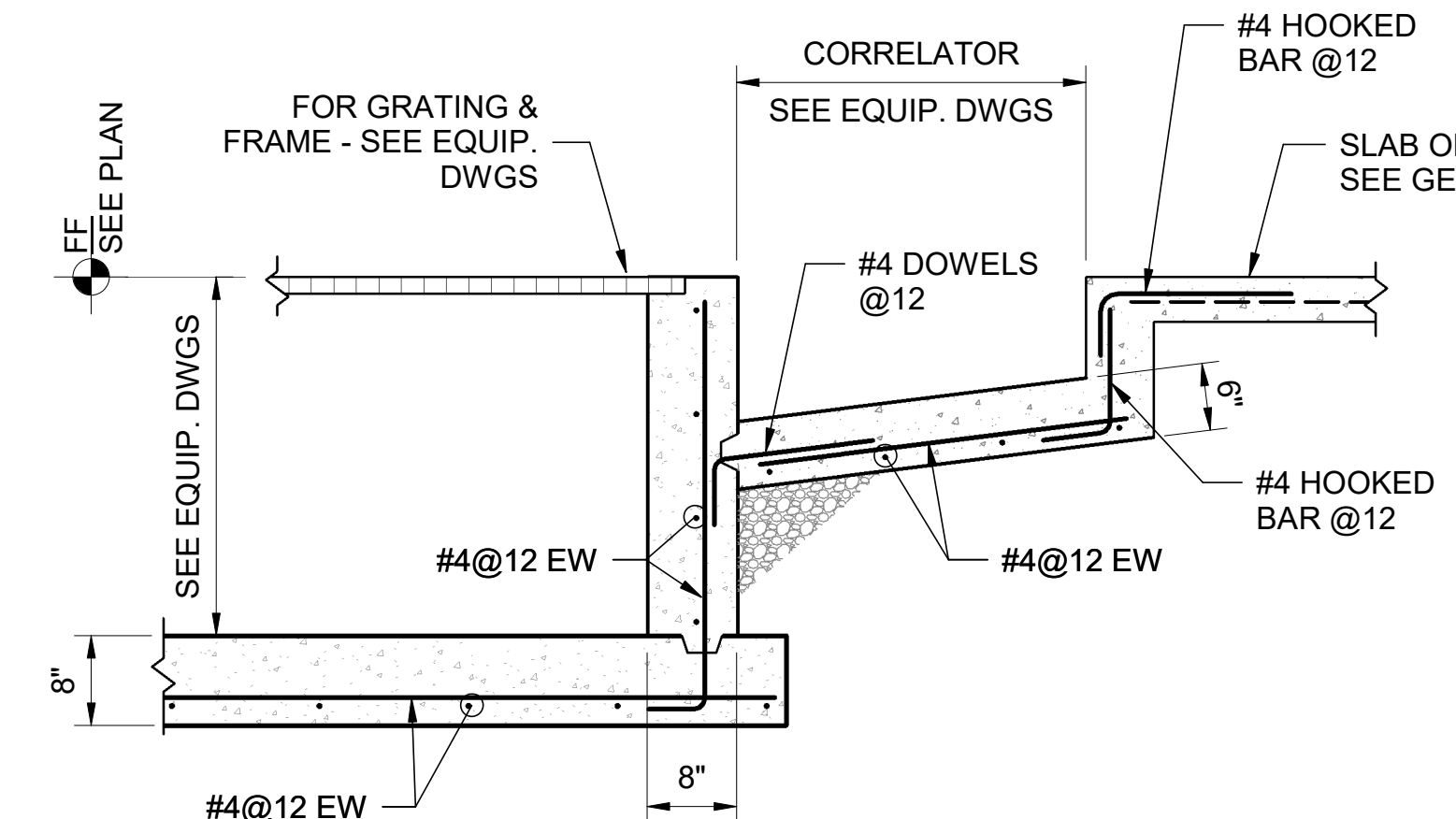
3 Section
S5 3/4" = 1'-0"



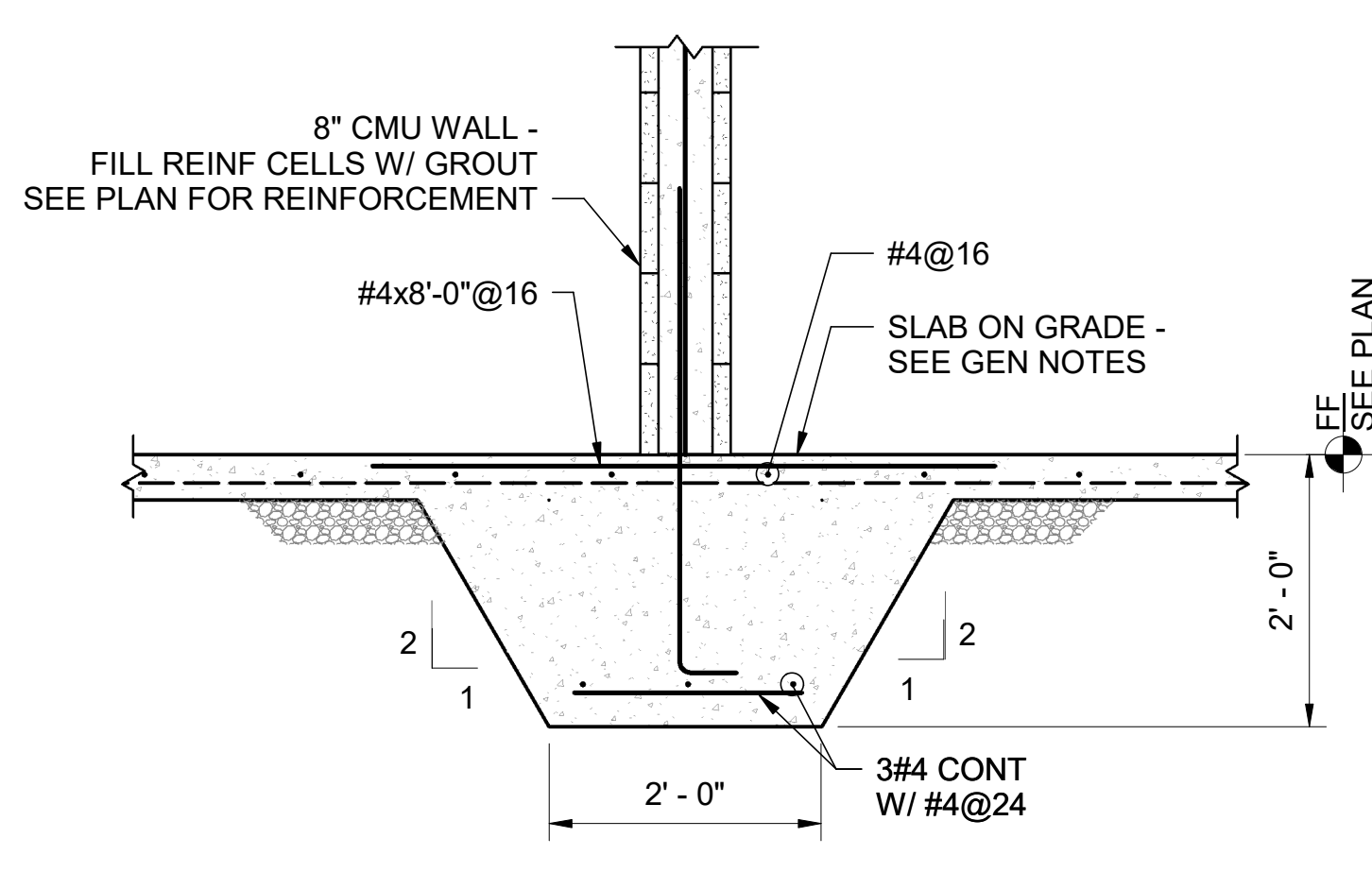
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S5 3/4" = 1'-0"



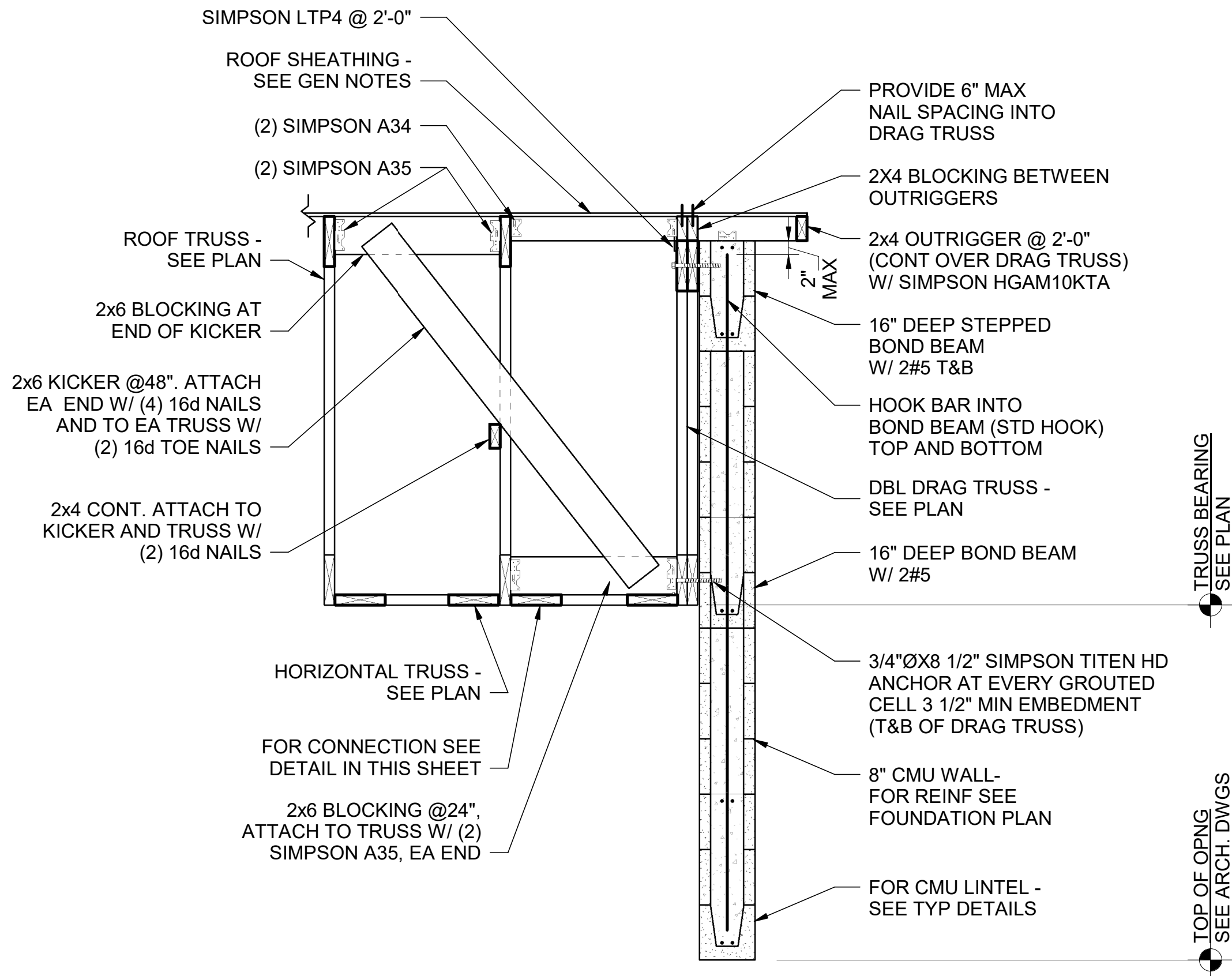
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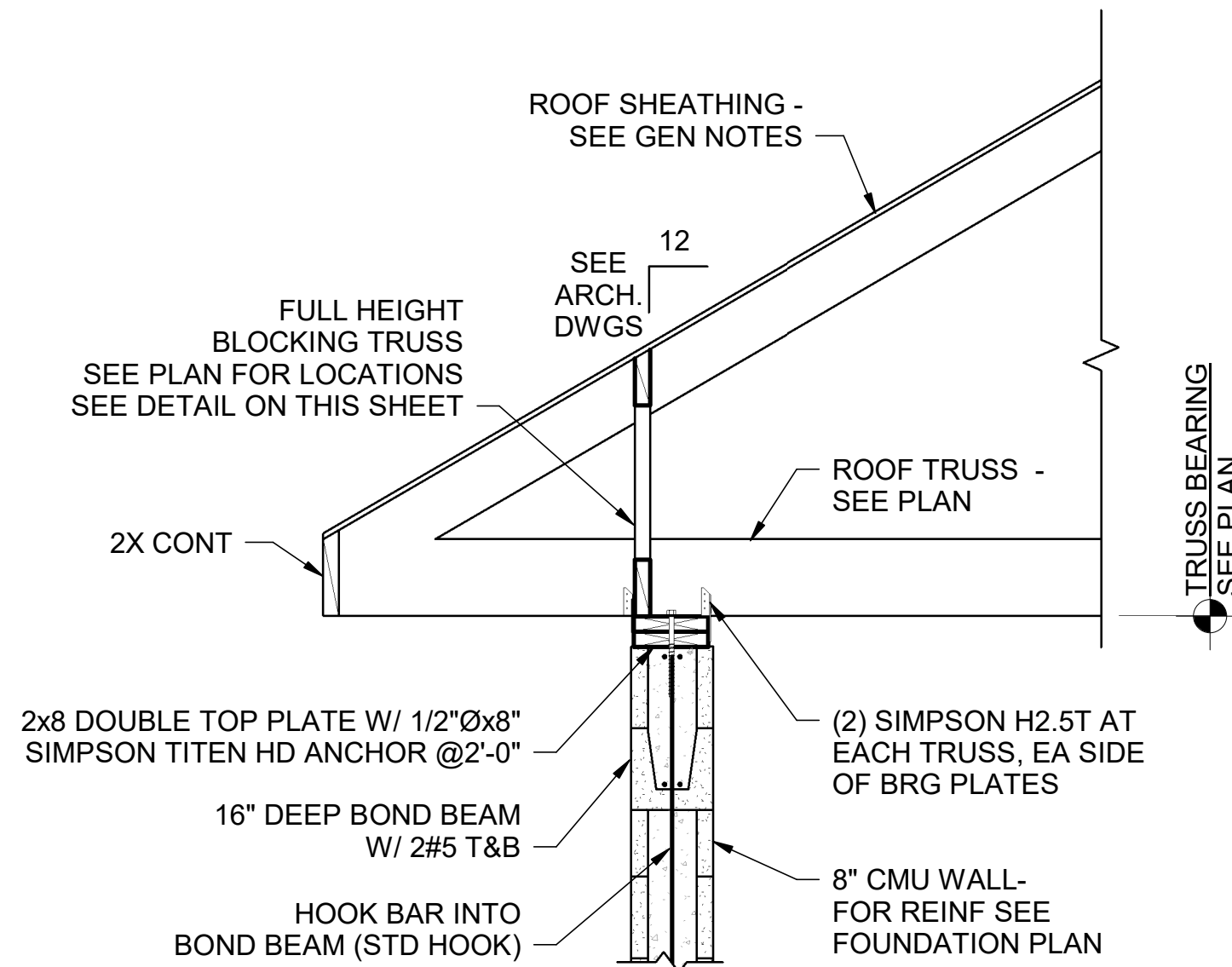
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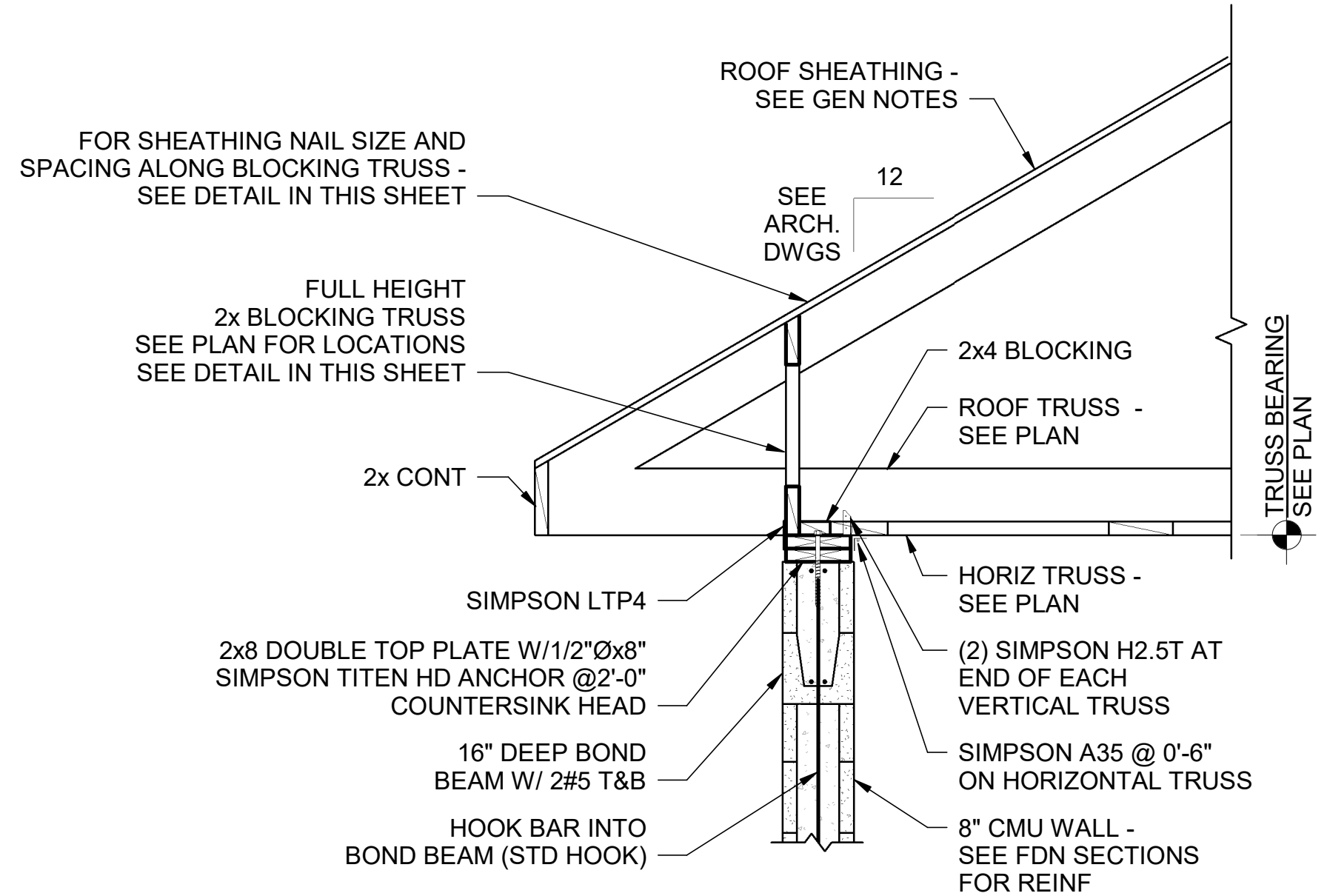
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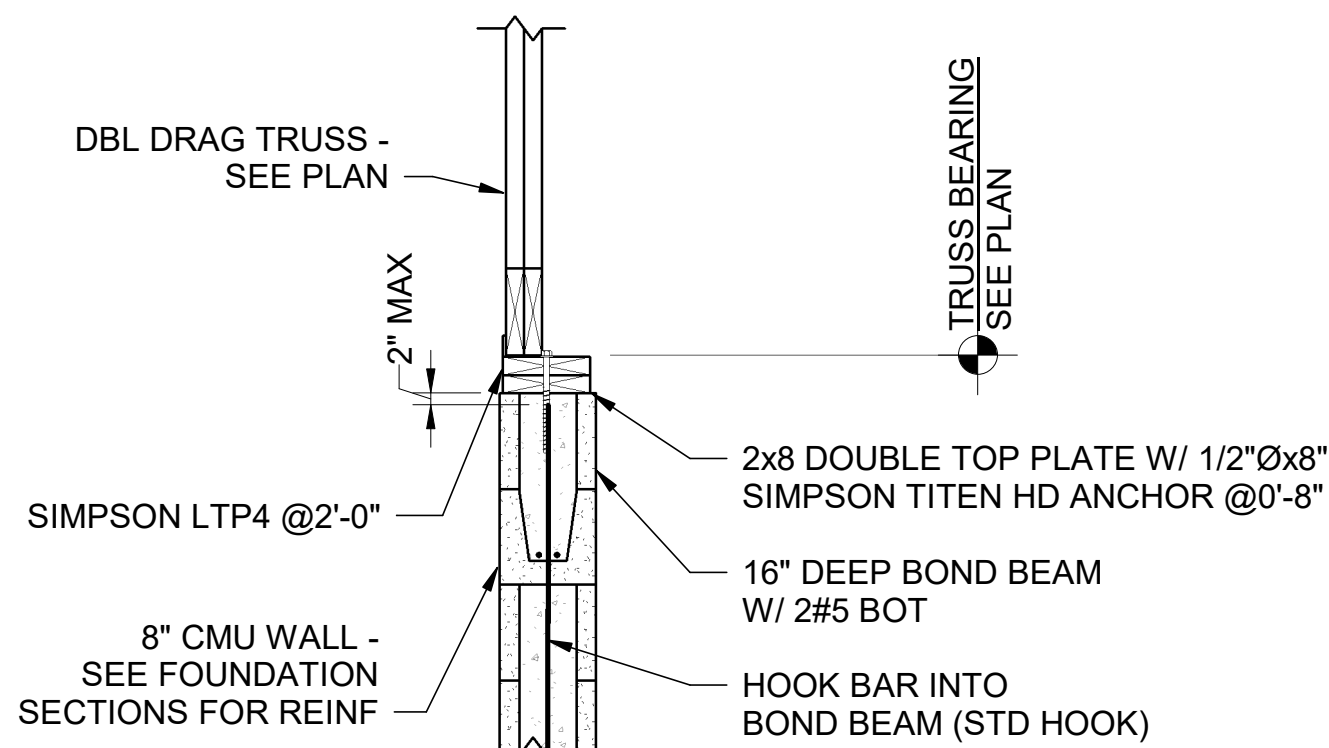
1 Section
S6 3/4" = 1'-0"



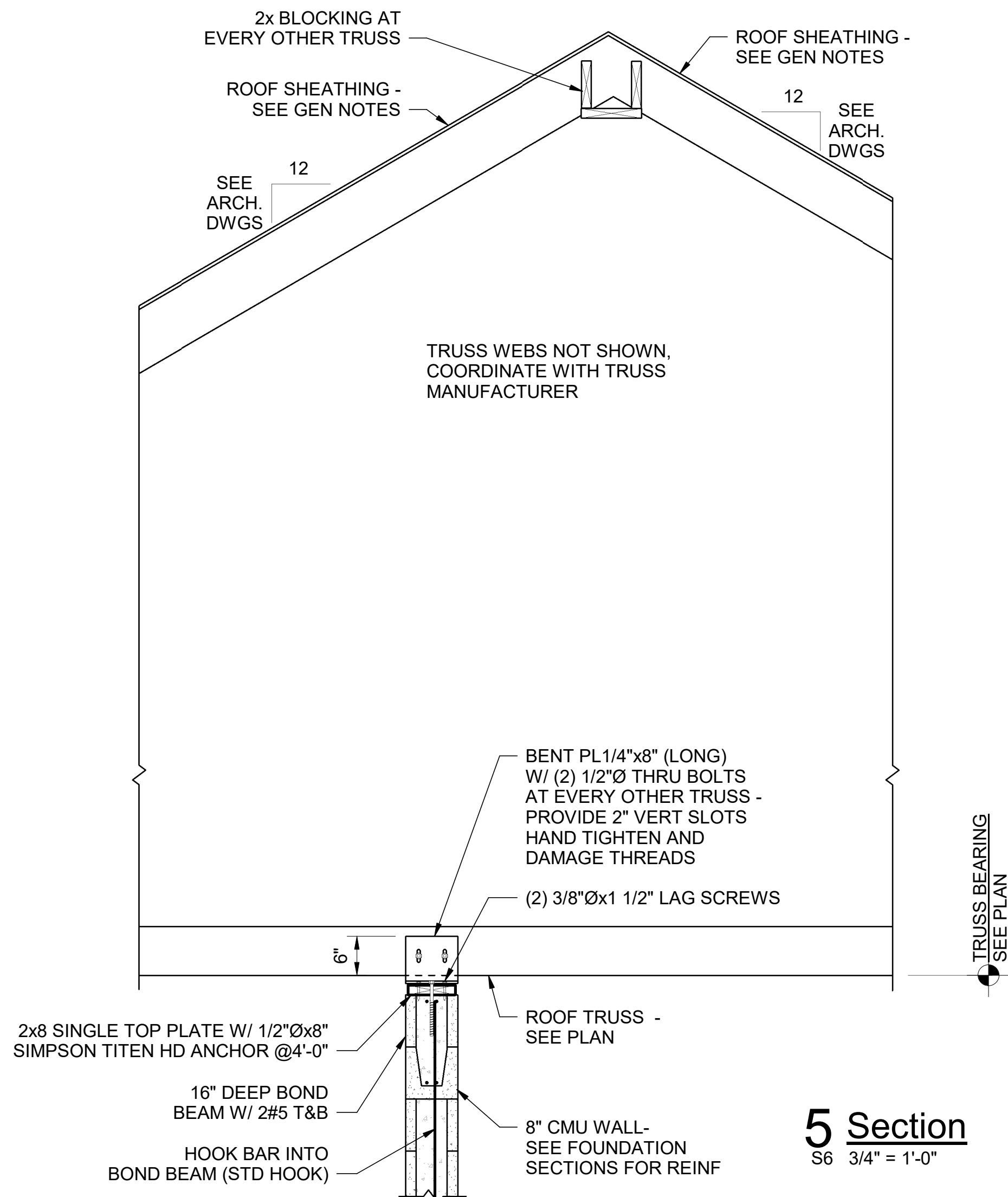
2 Section
S6 3/4" = 1'-0"



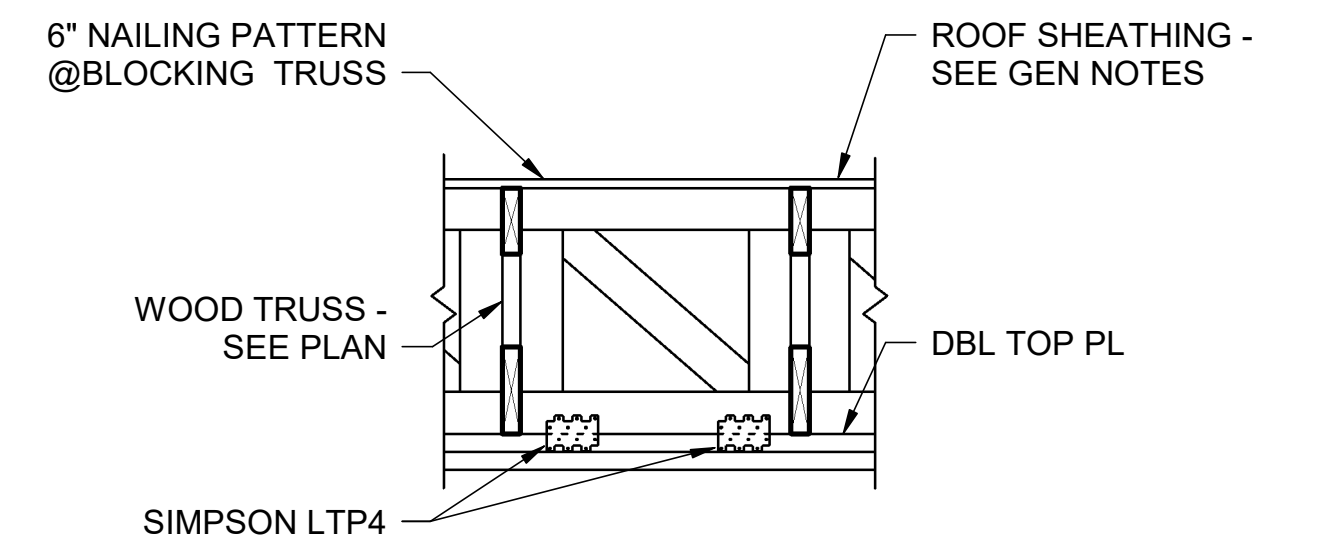
3 Section
S6 3/4" = 1'-0"



4 Section
S6 3/4" = 1'-0"

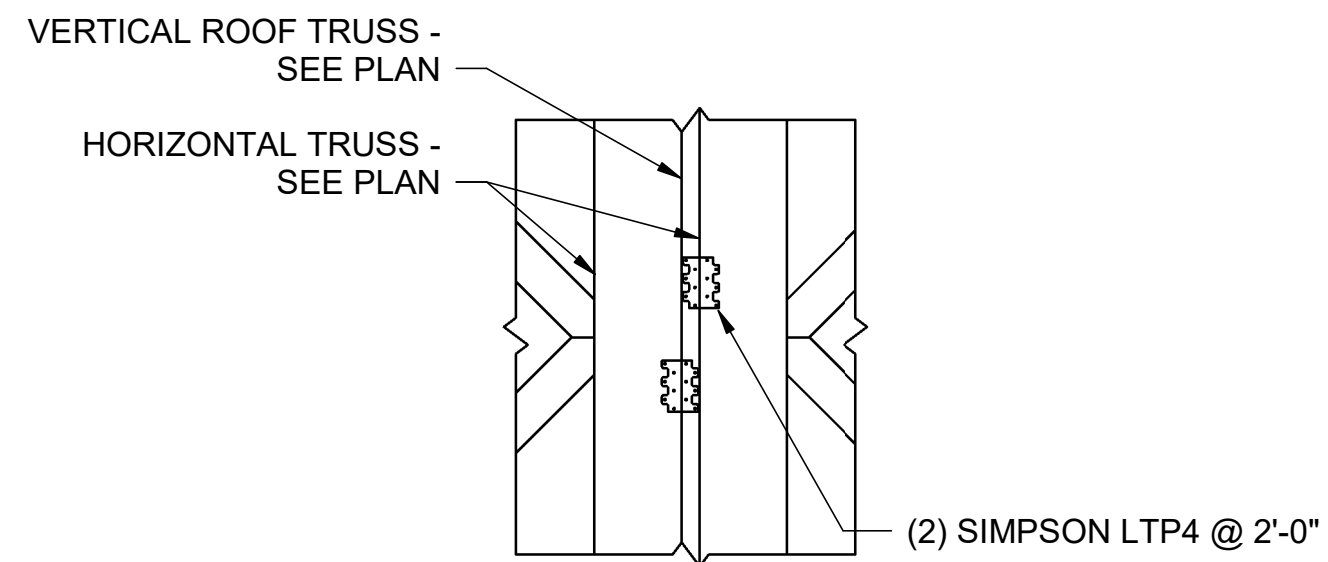


5 Section
S6 3/4" = 1'-0"



Blocking Truss Detail

1. DESIGN EACH TRUSS FOR 350# (ASD) LATERAL IN-PLANE LOAD.



Horizontal Truss Connection Detail

Special Inspection General Notes

- SI.1ALL SPECIAL INSPECTIONS SHALL BE PERFORMED IN CONFORMANCE WITH THE APPLICABLE INTERNATIONAL BUILDING CODE AND ITS REFERENCED SPECIFICATIONS.
- SI.2THE SPECIAL INSPECTOR SHALL BE EMPLOYED BY THE OWNER OR THE OWNER'S AGENT AND NOT BY THE CONTRACTOR OR SUBCONTRACTOR WHOSE WORK IS TO BE INSPECTED OR TESTED. ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE BUILDING OFFICIAL PRIOR TO COMMENCING WORK.
- SI.3THE SPECIAL INSPECTOR SHALL BE QUALIFIED PER THE INTERNATIONAL BUILDING CODE AND SHALL BE EDUCATED IN THE TASKS REQUIRED TO CONDUCT, SUPERVISE, AND EVALUATE THE INSPECTIONS. THE SPECIAL INSPECTOR MUST ALSO BE OBJECTIVE, COMPETENT, AND HAVE ACCESS TO THE APPROPRIATE TESTING EQUIPMENT WHICH SHALL BE MAINTAINED AND PERIODICALLY CALIBRATED. THE QUALIFICATIONS OF THE SPECIAL INSPECTOR MAY BE SUBJECT TO THE APPROVAL OF THE BUILDING OFFICIAL.
- SI.4SPECIAL INSPECTION AGENTS:

ATA: APPROVED TESTING AGENCY

GEOR: GEOTECHNICAL ENGINEER OF RECORD

SEOR: STRUCTURAL ENGINEER OF RECORD:
LBYD INC.
880 MONTCLAIR ROAD; SUITE 600
BIRMINGHAM, AL 35213
- SI.5THE SPECIAL INSPECTIONS SHALL BE PERFORMED IN ADDITION TO ANY OBSERVATIONS PERFORMED BY THE ENGINEER OF RECORD AND ANY INSPECTIONS PERFORMED BY THE BUILDING OFFICIAL.
- SI.6THE SPECIAL INSPECTOR SHALL MAINTAIN RECORDS AND PROVIDE THE REQUIRED DOCUMENTATION AS PRESCRIBED IN THE INTERNATIONAL BUILDING CODE, INCLUDING THE SUBMITTAL OF REPORTS TO THE BUILDING OFFICIAL AND THE DESIGNER OF RECORD.
- SI.7THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH THE SPECIAL INSPECTOR TO ALLOW FOR SPECIAL INSPECTIONS.
- SI.8CONSTRUCTION WHICH REQUIRES SPECIAL INSPECTIONS SHALL BE MAINTAINED IN SUCH A STATE AS TO ALLOW ACCESS FOR THE SPECIAL INSPECTOR UNTIL THE REQUIRED INSPECTIONS OR TESTS HAVE BEEN COMPLETED.
- SI.9ANY DEVIATIONS FOUND DURING THE SPECIAL INSPECTION PROCESS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE DESIGNER OF RECORD. ALL DEVIATIONS MUST BE ADDRESSED PRIOR TO COMPLETION OF THE WORK.
- SI.10INSPECTION FREQUENCY:

A. CONTINUOUS – SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS PRESENT WHEN AND WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED.

B. PERIODIC – SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED.

C. OBSERVE – OBSERVE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.

D. PERFORM – PERFORM TASKS FOR EACH JOINT, MEMBER, AND CONNECTION.
- SI.11SPECIAL INSPECTIONS FOR STRUCTURAL, LOAD-BEARING, OR LATERAL LOAD BEARING FABRICATED ITEMS SHALL BE PERFORMED FOR THE FABRICATED ITEMS AT THE FABRICATOR'S SHOP. SPECIAL INSPECTIONS FOR FABRICATED ITEMS MAY BE WAIVED WHEN THE FABRICATOR IS REGISTERED AND HAS APPROVAL TO PERFORM THE WORK WITHOUT SPECIAL INSPECTIONS. IF THE INSPECTIONS ARE WAIVED, THE FABRICATOR MUST SUBMIT A CERTIFICATE OF COMPLIANCE TO THE BUILDING OFFICIAL SHOWING COMPLIANCE WITH THE APPROVED STRUCTURAL DRAWINGS.

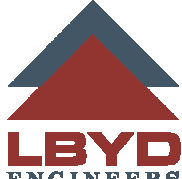
Concrete					
NO.	INSPECTION TASK	FREQUENCY	REFERENCE FOR CRITERIA	IBC REFERENCE	Agent
1.00	INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	PERIODIC	ACI 318 CH 20, 25.2, 25.3, 26.5.1-26.5.3	1908.4	ATA
2.00	INSPECT ANCHORS CAST IN CONCRETE.	PERIODIC	ACI 318: 17.8.2	---	ATA
3.00	INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.			---	ATA
3.01	INSPECT ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	CONTINUOUS	ACI 318: 17.8.2.4		ATA
3.02	INSPECT MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.01.	PERIODIC	ACI 318: 17.8.2		ATA
4.00	VERIFY USE OF REQUIRED DESIGN MIX.	PERIODIC	ACI 318: CH 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3	ATA
5.00	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE. DETERMINE UNIT WEIGHT OF LIGHTWEIGHT CONCRETE.	CONTINUOUS	ASTM C 172; ASTM C 31; ACI 318: 26.4.5, 26.12	1908.10	ATA
6.00	INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	CONTINUOUS	ACI 318: 26.4.5	1908.6, 1908.7, 1908.8	ATA
7.00	CONTINUOUS CONCRETE FOOTINGS SUPPORTING WALLS OF LIGHT-FRAME CONSTRUCTION OR THOSE THAT ARE DESIGNED IN ACCORDANCE WITH IBC 2015 TABLE 1809.7 ARE EXCEPTED FROM INSPECTIONS BUT NOT FROM MATERIALS TESTING.			1705.3(2)	ATA
8.00	SLABS ON GRADE ARE EXCEPTED FROM INSPECTIONS BUT NOT FROM MATERIALS TESTING.			1705.3(3)	ATA

Masonry - Level B					
NO.	INSPECTION TASK	FREQUENCY	REFERENCE FOR CRITERIA TMS 402/ACI 530/ASCE 5	REFERENCE FOR CRITERIA TMS 602/ACI 530.1/ ASCE 6	AGENT
1.00	VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) AS DELIVERED TO THE PROJECT SITE FOR SELF-CONSOLIDATING GROUT.	PERIODIC		ART. 1.5 B.1.b.3	ATA
2.00	VERIFICATION OF F'M AND F'AC PRIOR TO CONSTRUCTION, EXCEPT WHERE SPECIFICALLY EXEMPTED BY TMS 402/ACI 530/ASCE 5.	PERIODIC		ART. 1.4 B	ATA
3.00	VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS.	PERIODIC		ART. 1.5	ATA
4.00	AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:				
4.01	PROPORTIONS OF SITE-PREPARED MORTAR	PERIODIC		ART. 2.1, 2.6 A	ATA
4.02	CONSTRUCTION OF MORTAR JOINTS	PERIODIC		ART. 3.3 B	ATA
4.03	LOCATION OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES	PERIODIC		ART. 3.4, 3.6 A	ATA
5.00	PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:				
5.01	GROUT SPACE	PERIODIC		ART. 3.2 D, 3.2 F	ATA
5.02	GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES	PERIODIC	SEC. 6.1	ART. 2.4, 3.4	ATA
5.03	PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES	PERIODIC	SEC. 6.1, 6.2.1, 6.2.6, 6.2.7	ART. 3.2 E, 3.4, 3.6 A	ATA
5.05	CONSTRUCTION OF MORTAR JOINTS	PERIODIC		ART. 3.3 B	ATA
6.00	VERIFY DURING CONSTRUCTION:				
6.01	SIZE AND LOCATION OF STRUCTURAL ELEMENTS	PERIODIC		ART. 3.3 F	ATA
6.02	TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION	PERIODIC	SEC. 1.2.1(e), 6.1.4.3, 6.2.1		ATA
6.03	PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE	CONTINUOUS AND PERIODIC(a)		ART. 3.5, 3.6 C	ATA
7.00	OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS.	PERIODIC		ART. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, 1.4 B.4	ATA
NOTES:	(a) CONTINUOUS REQUIRED FOR THE FIRST 5,000 SQUARE FEET OF AAC MASONRY. PERIODIC REQUIRED AFTER THE FIRST 5,000 SQUARE FEET OF AAC MASONRY.				

Soils				
NO.	INSPECTION TASK	FREQUENCY	REFERENCE FOR CRITERIA	AGENT
1.00	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	PERIODIC		GEOR
2.00	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	PERIODIC		GEOR
3.00	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	PERIODIC		GEOR
4.00	VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT, AND COMPACTION OF COMPACTED FILL.	CONTINUOUS		GEOR
5.00	PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	PERIODIC		GEOR

Wood Framing				
NO.	INSPECTION TASK	FREQUENCY	REFERENCE FOR CRITERIA	AGENT
1.00	INSPECT PREFABRICATED WOOD STRUCTURAL ELEMENTS AND SITE-BUILT ASSEMBLIES	PERIODIC	IBC 1704.2.5, 1705.5	ATA
2.00	INSPECT GRADING OF WOOD MATERIALS:			
2.01	SAWN LUMBER FRAMING	PERIODIC		ATA
2.02	STRUCTURAL COMPOSITE LUMBER	PERIODIC		ATA
3.00	INSPECT FRAMING AND DETAILS:			
3.01	FRAMING LAYOUT, MEMBER SIZES, AND BEARING LENGTHS	PERIODIC		ATA
3.02	BLOCKING AND BRIDGING	PERIODIC		ATA
3.03	HOLES AND NOTCHES (a)	PERIODIC		ATA
4.00	INSPECT CONNECTIONS:			
4.01	BOLTED AND SCREWED CONNECTIONS, INCLUDING DIAMETER, LENGTH, SPACING AND EDGE DISTANCE.	PERIODIC		ATA
4.02	NAILED CONNECTIONS, INCLUDING DIAMETER, LENGTH, TYPE AND SPACING OF NAILS.	PERIODIC		ATA
4.03	PROPRIETARY HANGERS AND FRAMING ANCHORS, INCLUDING FASTENER SIZES AND QUANTITIES.	PERIODIC		ATA
4.04	TIE-DOWN ANCHORS, INCLUDING ANCHOR ROD SIZE AND FASTENER SIZES AND QUANTITIES.	PERIODIC		ATA
5.00	INSPECT DIAPHRAGMS:			
5.01	WOOD STRUCTURAL PANEL GRADE AND THICKNESS	PERIODIC		ATA
5.02	FASTENER SIZE, LENGTH AND SPACING	PERIODIC		ATA
5.03	FRAMING MEMBER SIZES AT PANEL EDGES	PERIODIC		ATA
5.04	BLOCKING AT PANEL EDGES	PERIODIC		ATA
6.00	INSPECT METAL-PLATE CONNECTED WOOD TRUSSES:			
6.01	MULTI-PLY TRUSS CONNECTIONS	PERIODIC		ATA
NOTES:	(a) INSPECTIONS OF HOLES AND NOTCHES TO BE PERFORMED AFTER ELECTRICAL, MECHANICAL AND PLUMBING.			

Wind Resistance				
NO.	INSPECTION TASK	FREQUENCY	REFERENCE FOR CRITERIA	AGENT
1.00	STRUCTURAL WOOD		IBC 1705.11.1	
1.02	NAILING, BOLTING, ANCHORING, OR OTHER FASTENING ELEMENTS OF THE MAIN WIND FORCE-RESISTING SYSTEM INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES, AND HOLD DOWNS.	PERIODIC		ATA
2.00	WIND RESISTING COMPONENTS		IBC 1705.11.3	
2.01	ROOF COVERINGS, ROOF DECK, AND ROOF FRAMING CONNECTIONS	PERIODIC		ATA
2.02	EXTERIOR WALL COVERING AND CONNECTIONS TO ROOF AND FLOOR DIAPHRAGMS AND FRAMING	PERIODIC		ATA



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ROBERT O. WHYTE
REGISTERED
25032
09/26/2025
STATE OF
ALABAMA
Professional Seal

Unlimited
WASH-RITE
Express
Car Wash

REVISIONS:

1.

2.

3.

4.

PROJECT TITLE:
WASH-RITE Express Car Wash
Mt Dechantal Rd at Hunter Ave, Wheeling, WV 26003
Gary A. Nash
ARCHITECT

120 23rd STREET South (205) 254-3212
Suite 110 Birmingham, AL U.S.A. 35233

SHEET
TITLE:
Schedule of Special Inspections

COMMISSION NUMBER: 4044.02

DATE: 25 SEPT 2025

DRAWN BY: MBB

CHECKED BY: ROW

SHEET
NUMBER:
57

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PLUMBING SPECIFICATIONS

GENERAL:

- Contractor shall visit the site and verify existing conditions prior to bidding or beginning work.
- Obtain permits and notify authorities for inspections.
- Perform all work in accordance with:
 - A. 2018 International Plumbing Code including local amendments and updates
 - B. 2018 International Building Code including local amendments and updates
 - C. 2018 International Fuel Gas Code including local amendments
 - D. Manufacturer's Standardization Society of the Valve and Fittings Industry, Inc. (MSS)
 - E. Local Codes and Ordinances
- Provide 1 year comprehensive warranty (materials and labor) for all work in this contract. The Owner reserves the right to make emergency repairs as required to keep equipment in operation without voiding the contractor's warranty or relieving the contractor of his responsibilities during the warranty period.
- Install Fire-Stopping for all penetrations of fire rated partitions and floors.
- Repair all areas damaged by performing work under this contract.
- Provide record "As-built" prints to the owner and City officials.
- Drawings are diagrammatic only. Due to the small scale of the plans and unforeseen existing conditions they do not show every offset, bend, or fitting necessary for the complete installation in the space provided. All locations for mechanical work shall be coordinated with existing conditions and the work of other trades. Where conflicts occur they shall be resolved prior to the installation of the work involved.
- Refer to Architectural Floor Plans and Elevations for exact locations of all plumbing fixtures.
- Arrange for and schedule inspections in a timely manner with the construction schedule. Inspections shall be scheduled minimum 24 hours in advance.
- All work shall be First Class with emphasis on Neatness and Workmanship.
- Install all equipment in accordance with the manufacturer's recommendations.

PRODUCTS:

- Domestic Water Piping: Type L hard drawn copper, ASTM B-88. Fittings shall be wrought copper, solder joint, ASTM B-75, ANSI B16.22.
- Waste & Vent Piping:
 - A. Above Slab: Cast Iron Soil Pipe with no-hub fittings.
 - B. Below Slab: Schedule 40 PVC-DWV with ASTM D2564 solvent cement
- Natural Gas Piping: Sch. 40 black steel pipe, ASTM A53, Grade A,B, or F, with malleable iron Class 150 threaded fittings. Provide butt-weld fittings for piping larger than 2 inches diameter.
- Ball Valves: Nilco s-585-70, full port ball valves with bronze body, chrome plated ball, and bronze threaded ends, 600 psi WOG. Approved manufacturers include Stockham, Crane and Milwaukee.
- Gas Cocks:
 - A. Sizes up to 1": Hammond #875, brass body, chrome plated ball, AGA approved to 5 psi
 - B. Sizes larger than 1": Hammond #8423 ball valve, 2-piece carbojn steel body, stainless steel ball, 150 psi WOG rated
- Unions: Solder Unions shall be wrought copper with copper ground joint, ASTM B75, ANSI B16.22. Dielectric, EPSO 250 lb. WOG.
- Cleanouts:
 - A. Coated cast iron body with threaded top and no-hub or spigot connection. Bronze closure plug shall be gasketed with countersunk slot. Head shall be adjustable in height.
 - B. Covers for floor cleanouts shall be heavy duty nickel bronze, square, non-skid, recessed type. Provide tread shield to protect adjustment treads from concrete as required.
 - C. Covers for wall cleanouts shall be round, polished chrome plated with countersunk screw head in center.
 - D. Cleanouts shall be manufactured by Jay R. Smith or Zurn.
- Water Hammer Arrestors shall be constructed of stainless steel or copper shell with stainless steel or elastomer bellows, and precharge of air, nitrogen or argon. Zurn "Shoktrol" or approved equal.
- Trap Primers shall have bronze body and integral vacuum breaker with pressure drop activation of priming mechanism. Units shall comply with the requirements of ANSI/ASSE Std. 1018. Precision Industries or approved equal.
- Solder: Metal shall conform to ASTM B32-Alloy grade 95TA: 95% tin, 5% antimony. Joints shall be made with approved solder containing not more than 0.2% lead.
- Insulation: Pipe insulation shall be sectional fiberglass conforming to ASTM C552 as manufactured by Pittsburgh Corning. Insulation shall be 1" thick for hot water system and 3/4" thick for cold water system.
- Fixtures:
 - A. Vitreous ware shall be white, regular section, of weight required, free from cracks, flaws, blisters, crazes or other defects. Provide mounting brackets for wall mounted fixtures.
 - B. Chromium plated traps shall be brass with chromium plated nipple to wall and escutcheon.
 - C. Provide chromium plated brass escutcheons on all pipes through walls.
 - D. Fittings and accessories specified designate type only. Provide modifications to make fittings work properly with fixtures and piping.
 - E. Provide necessary tailpieces and shanks.

EXECUTION:

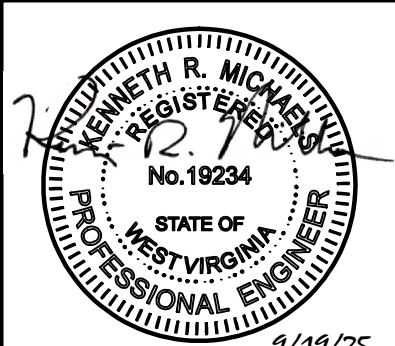
- Provide roof flashings for pipe penetrations of roof membrane in accordance with roofing contractor's instructions.
- Domestic water piping system shall be tested with potable water at a pressure of 125 psig for 12 hours. Test shall be conducted in the presence of the Plumbing Inspector unless approved otherwise in writing.
- Domestic water piping shall be disinfected prior to occupancy or system start-up with a 50 ppm chlorine solution. Allow system to stand for six hours minimum, then exercise all valves to ensure treatment of all branches and components. System shall be completely flushed with potable water after disinfection and prior to placement into service.
- Waste and vent piping shall be tested in accordance with water and air tests as specified in the SBCCI Standard Plumbing Code in addition to any tests required by the local plumbing official. System shall maintain as a minimum 10 ft. of head with no apparent leaks for 30 minutes. Flush all gravity piping including floor drains prior to turning over to owner.
- Install valves in domestic water piping with stems upright or horizontal. Provide drain valves at all low points in systems.
- Provide unions downstream of all valves and at equipment and apparatus connections. Use dielectric unions where joining dissimilar materials.
- Sanitary Waste & Vent Piping:
 - A. Horizontal lines shall maintain a minimum uniform slope of 1/8 inches per ft. for lines 4" and larger and 1/4 inches per foot for lines 3" and smaller.
 - B. Provide cleanouts in all horizontal waste lines at turns sharper than 45°.
 - C. Provide deep seal traps on all floor drains and trap primers where required by code or as indicated on the drawings.
 - D. Indirect waste lines discharging into floor drains or hub drains shall maintain a 2" minimum air gap between the end of the waste line and the rim of the drain.
- Natural Gas Piping System:
 - A. Install natural gas piping system and accessories in accordance with applicable AGA, NFPA 54, state and local codes.
 - B. Install gas cocks and drip legs at each equipment connection.
 - C. Piping shall be adequately drained to prevent the accumulation of condensate. Slope piping at minimum 1/4" per 15 ft. to full size drip legs at all low points.
 - D. Test complete gas piping system in accordance with AGA, Standard Gas Code, NFPA 54, and local requirements.
- Fixtures:
 - A. Install fixtures level and plumb, in accordance with manufacturer's instructions, rough-in drawings, codes, and reference standards.
 - B. Fasten fixtures securely to carriers (where specified) or building structure. Rigidly support water supplies and waste & vent piping behind or inside partitions.
 - C. Provide iron or steel backing for all wall mounted fixtures (wood backing is permitted only where building structure is wood).
 - D. Provide 3 sq. ft., 6 mil. butyl membrane at each floor drain. Membrane shall be clamped and placed below the tile grout. Membrane shall be recessed in the floor slab with topping poured over it.
 - E. Clean fixtures, trim, and strainers using manufacturer's recommended cleaning methods and materials. Remove labels.
 - F. Mount fixtures at heights indicated on Plumbing Fixture Schedule or as shown in manufacturer's installation instructions.
- Pipe Supports:
 - All piping shall be firmly held in place by adjustable, Grinnell #CT-99C split ring malleable iron hangers or steel trapeze supports. Pipe supports shall be located adjacent to fittings, at each offset and change in direction, at the ends of branches over 5 ft. long, at risers, and along piping as necessary to prevent sags, bends or vibration. Provide insulation protection shields equal to Grinnell fig. 167 between insulation and supports.

PLUMBING FIXTURE SCHEDULE									
SYMBOL	MANUFACTURER/ MODEL NO.	DESCRIPTION	CONNECTIONS (in.)				ACCESSORIES		REMARKS
			COLD WATER	HOT WATER	WASTE	VENT			
WC-1	ZURN Z5660	ADA WATER CLOSET, FLOOR MOUNT, FLUSH VALVE	1	--	4	2	1. ZURN Z6000AV--WS1 FLUSH VALVE 2. BEMIS 2055SSC ELONGATED SEAT WITH SELF--SUSTAINING CHECK HINGE		1.6 GPF, RIM SHALL BE 17" AFF
S-1	FIAT FL-1	UTILITY SINK, FLOOR MOUNTED WITH LEGS	1/2	1/2	2	2	1. FIAT A-1 DECK TYPE FAUCET 2. McGUIRE 8902 P--TRAP W/ESCUTCHEON 3. WATTS MMV THERMOSTATIC MIXING VALVE		
L-1	CRANE 1165V	ADA LAVATORY, WALL--HUNG, CHINA	1/2	1/2	1 1/4	2	1. SYMMONS S-90-FR SINGLE LEVER FAUCET-- ADA COMPLIANT 2. McGUIRE 155WC WHEELCHAIR LAVATORY STRAINER W/1 1/4" TAILPIECE 3. McGUIRE 170 SWEAT LAVATORY SUPPLIES W/WHEEL HANDLE STOP 4. McGUIRE 8902 P--TRAP W/ESCUTCHEON 5. "LAV--GUARD" #403/103 BY TRUEBRO OR APPROVED EQUAL 6. ZURN Z-1231 CONCEALED ARM LAVATORY CARRIER 7. WATTS LFMMV THERMOSTATIC MIXING VALVE		RIM SHALL BE 34" AFF
FD-1	J.R. SMITH 2010--A	FLOOR DRAIN, ROUND STRAINER	--	--	3	2	HEAVY DUTY NICKEL--BRONZE STRAINER		PROVIDE 2692 QUAD CLOSE TRAP SEAL
EW-1	ELKAY LZSTL8C	WATER COOLER, BI--LEVEL, WALL HUNG, ADA	1/2	--	1 1/4	2	1. McGUIRE 170 SWEAT LAVATORY SUPPLY W/WHEEL HANDLE STOP 2. McGUIRE 8902 P--TRAP W/ESCUTCHEON 3. ZURN Z-1225 CONCEALED ARM CARRIER FOR WATER COOLERS (2)		120V/1 PH./60 HZ. MOUNT AT CHILD AND ADA HEIGHTS

APPROVED MANUFACTURERS:
CHINA WARE: KOHLER, CRANE, TOTO AND AMERICAN STANDARD
STAINLESS STEEL SINKS: ELKAY, JUST, ADVANCE TABCO AND KOHLER
FITTINGS: DELTA, SYMMONS, JUST, ELKAY, AND ZURN
SHOWER VALVES: SYMMONS, DELTA AND ZURN
WATER COOLERS: ELKAY, SUNROC AND OASIS
FLOOR DRAINS: SIOUX CHIEF, J.R. SMITH AND ZURN

PLUMBING SPECIALTIES SCHEDULE			
SYMBOL	DESCRIPTION	MANUFACTURER/ MODEL NO.	NOTES
PRV	PRESSURE REDUCING VALVE	WATTS U-5-B	SET AT 65 PSI
WH-1	WALL HYDRANT	WOODFORD MB30BX	NON--FREEZE, CONCEALED, WHEEL HANDLE
GH-1	GROUND HYDRANT	J.R.SMITH 5810--W	NON--FREEZE, CONCEALED, KEY OPERATED
HB-1	HOSE BIBB	WOODFORD 30MS	NON--FREEZE, EXPOSED, WHEEL HANDLE, SLEEVE
WHA	WATER HAMMER ARRESTOR	J.R. SMITH HYDROTROL	STAINLESS STEEL BELLOWS
ET	EXPANSION TANK (WATER HEATER)	AMTROL ST-12	BLADDER TYPE
TP	TRAP PRIMER	PPP PR-500	DISTRIBUTION UNIT DU-3 (WHERE NEEDED)
VB	VACUUM BREAKER	WATTS 288A	PROVIDE FOR WATER HEATER
RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVENTER	WATTS SERIES 009	BRONZE STRAINER, SHUTOFF VALVES
BFP	BACKFLOW PREVENTOR	WATTS LF7 DUAL CHECK VALVE	LEAD FREE

TANKLESS ELECTRIC WATER HEATER SCHEDULE											
SYMBOL	MANUFACTURER/ MODEL NO.	SYSTEM	CAPACITY (KW)	EWT (°F)	LWT (°F)	TANK DIMENSIONS (IN.)			ELECTRICAL		NOTES
						LENGTH	HEIGHT	DEPTH	(VOLTS/PH/Hz)	DISCONNECT	
EWH-1	EEMAX SP3208	DOMESTIC WATER	3.0	50	91	5.2	9.7	3.0	208/1/60	DIVISION 16	MOUNT UNDER LAVATORY
EWH-2	EEMAX SP4208	DOMESTIC WATER	4.1	50	106	5.2	9.7	3.0	208/1/60	DIVISION 16	MOUNT UNDER SINK



REVISIONS:
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4.

PROJECT TITLE:

WASH-RITE Express Car Wash

Mt Dechantal Rd at Hunter Ave, Wheeling, WV 26003

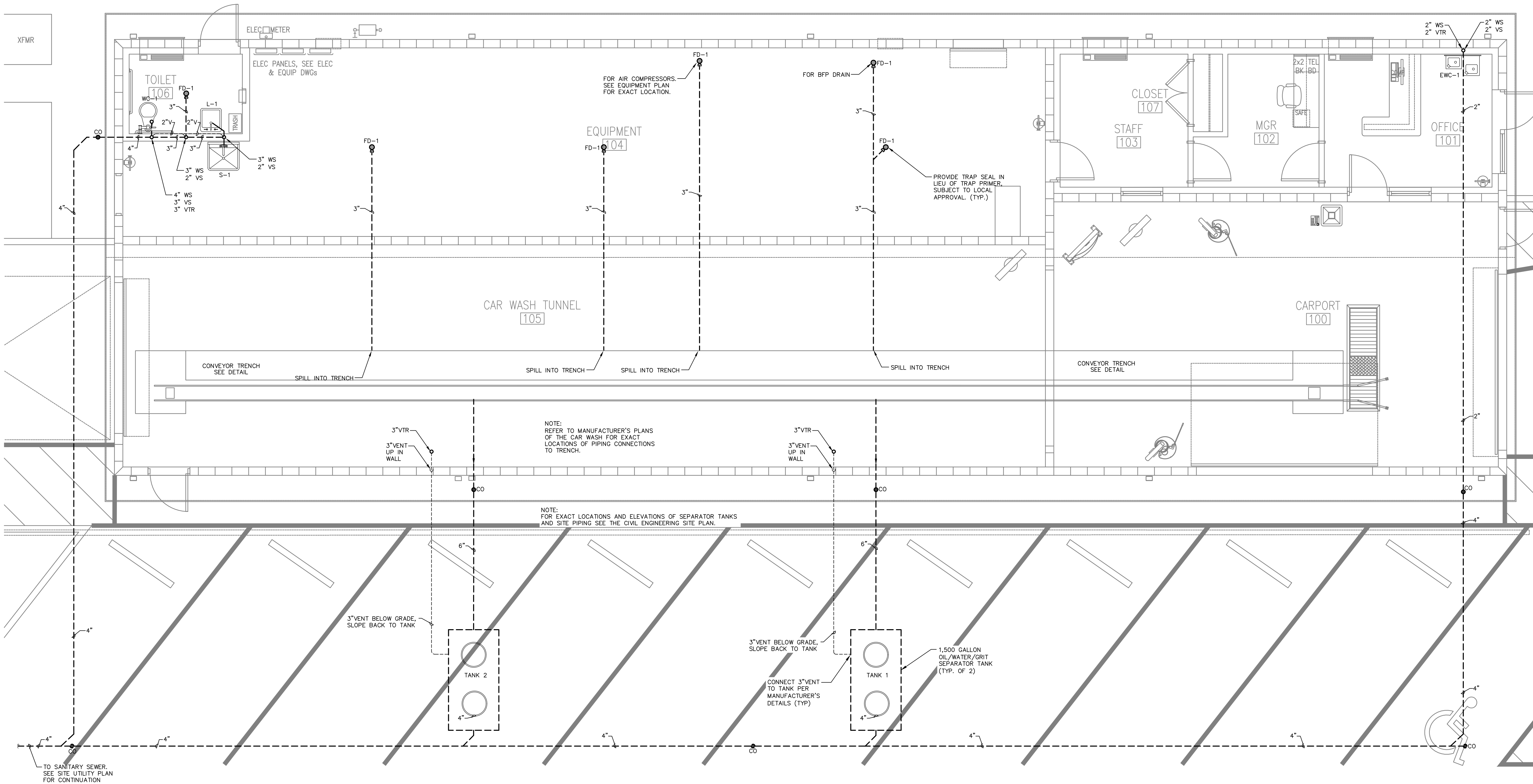
Gary A. Nash
ARCHITECT

120 23rd STREET South (205) 332-7482

Suite 110 Birmingham, AL U.S.A. 35233

SHEET TITLE: PLUMBING SCHEDULES AND DETAILS	
COMMISSION NUMBER: 4044.02	DATE: 19 SEP 2025
DRAWN BY: KRM	CHECKED BY: KRM

SHEET NUMBER:
P1.0
OF .



GRAVITY PIPING FLOOR PLAN

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

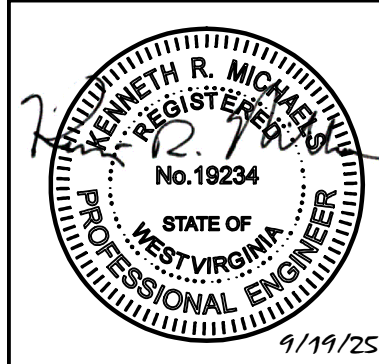


PLUMBING GENERAL NOTES:

- CONTRACTOR SHALL VERIFY EXACT LOCATION, SIZE AND ELEVATION OF ALL EXISTING SERVICES PRIOR TO INSTALLING ANY NEW PIPE.
- ALL OUTSIDE CLEANOUTS SHALL BE BROUGHT TO GRADE AND EMBEDDED IN 18"x18"x6" THICK CONCRETE PAD.
- WHEREVER DISSIMILAR METALS ARE CONNECTED ON WATER LINES, A DIELECTRIC UNION SHALL BE USED.
- ALL HORIZONTAL WATER, GAS AND VENT PIPING IS RUN ABOVE CEILING UNLESS OTHERWISE NOTED.
- ALL HORIZONTAL SANITARY PIPING IS RUN BELOW FLOOR UNLESS OTHERWISE NOTED.
- ALL WATER PIPING BELOW SLAB ON GRADE SHALL BE BENT UP AT END SO THAT NO JOINTS OCCUR BELOW FLOOR.
- COORDINATE ALL PIPE ROUTING TO AVOID CONFLICTS WITH STRUCTURAL, MECHANICAL AND ELECTRICAL FEATURES OF BUILDING.
- LENGTH OF UNVENTED BRANCH LINE SHALL NOT EXCEED 48 PIPE DIAMETERS.
- PLUMBING CONTRACTOR TO SEAL ALL PENETRATIONS IN WALL AND CEILINGS.
- PLUMBING CONTRACTOR TO TAG ALL WATER VALVES.
- ALL FLOOR DRAINS TO BE INSTALLED WITH TOP OF DRAIN 1/2" BELOW F.F. ELEVATION. CONCRETE TO SLOPE TO FLOOR BEGINNING 24" FROM CENTER OF DRAIN UNLESS OTHERWISE NOTED.
- PLUMBING TO MEET CURRENT NATIONAL, STATE, AND LOCAL CODES.
- THE TRENCH DRAIN/FLOOR DRAIN SYSTEMS MEET THE REQUIREMENTS OF AN "ALTERNATIVE ENGINEERED DESIGN" PER OHB SECTION 106.5.

PLUMBING LEGEND

---	SANITARY PIPING (BELOW SLAB)	---	GATE VALVE
----	VENT PIPING (ABOVE CEILING)	---	GAS COCK
----	DOMESTIC COLD WATER PIPING	---	CALIBRATED BALANCING VALVE
----	EXIST. DOMESTIC COLD WATER PIPING	CO	FLOOR CLEANOUT
----	DOMESTIC HOT WATER PIPING	WCO	WALL CLEANOUT
----	EXIST. DOMESTIC HOT WATER PIPING	FD-1	FLOOR DRAIN
----	DOMESTIC HOT WATER RETURN PIPING	HD	HUB DRAIN
----	EXIST. DOMESTIC HOT WATER RETURN PIPING	CO	EXIST. FLOOR CLEANOUT
---	NATURAL GAS PIPING (LOW PRESSURE)	FD	EXIST. FLOOR DRAIN
---	EXIST. NATURAL GAS PIPING	---	COMBINATION FITTING IN EXIST. LINE
---	EXIST. PIPING TO BE REMOVED	---	COMBINATION FITTING IN NEW LINE
---	BALL VALVE		



REVISIONS:
1. 3/5/20 - REV 1
2. 2/3/22 - REV 2
3.
4.

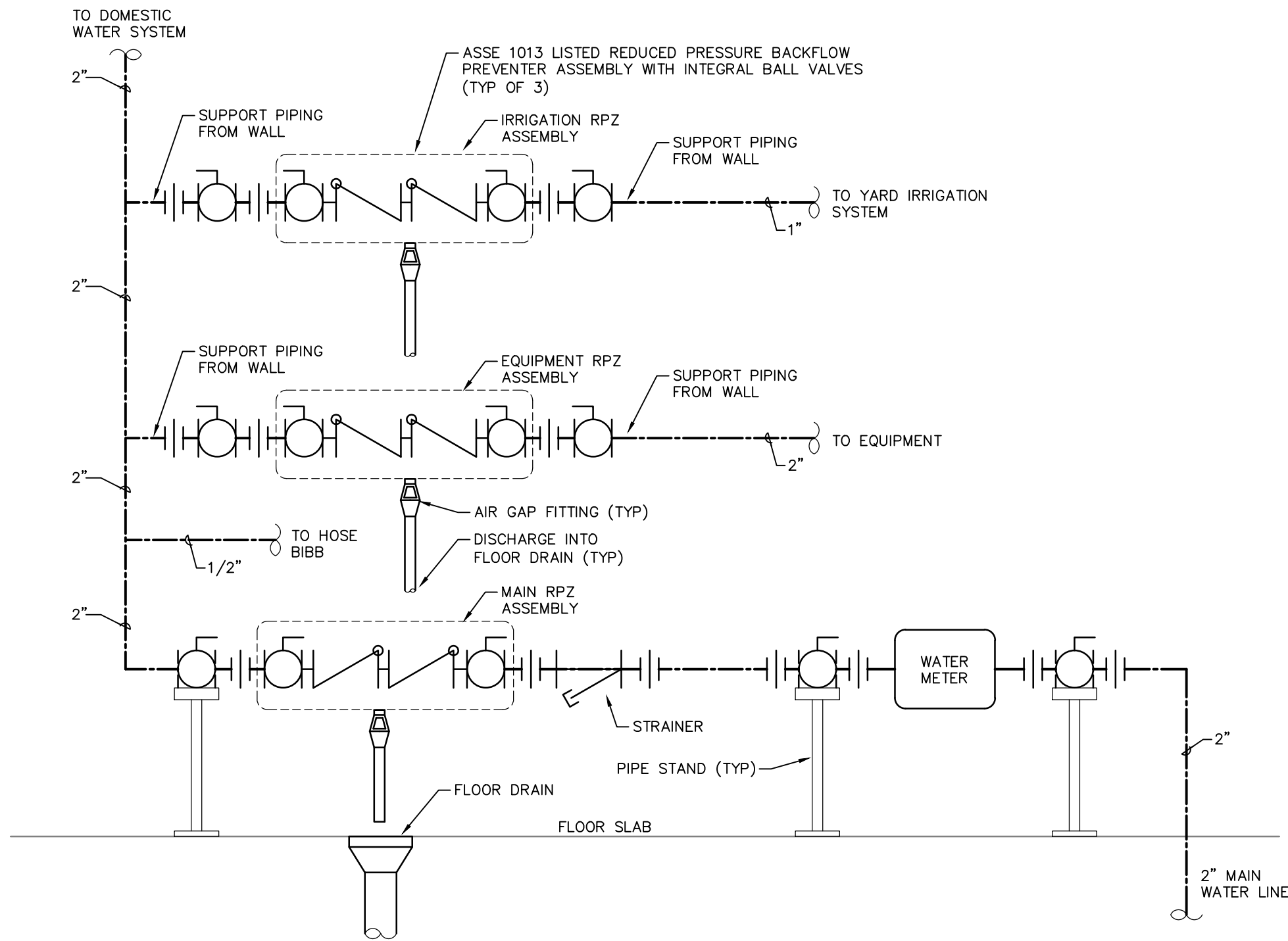
WASH-RITE Express Car Wash
Mt Dechantal Rd at Hunter Ave, Wheeling, WV 26003
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120 23rd STREET South (205) 322-7482
Suite 110 Birmingham, AL U.S.A. 35233

SHEET TITLE:
GRAVITY PIPING PLAN

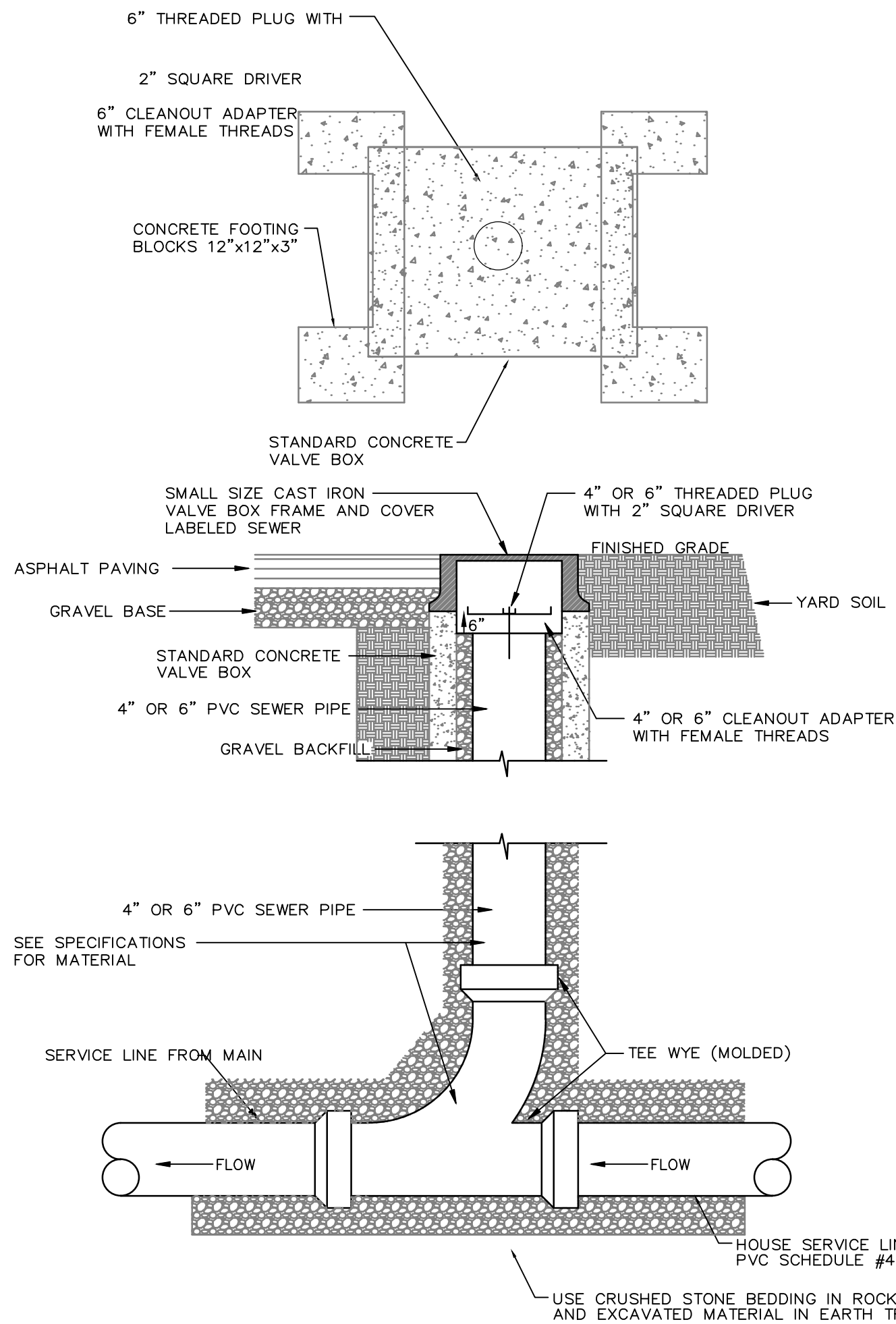
COMMISSION NUMBER:	DATE:
4044.02	19 SEP 2025
DRAWN BY:	CHECKED BY:
KRM	KRM

SHEET NUMBER:
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OF .

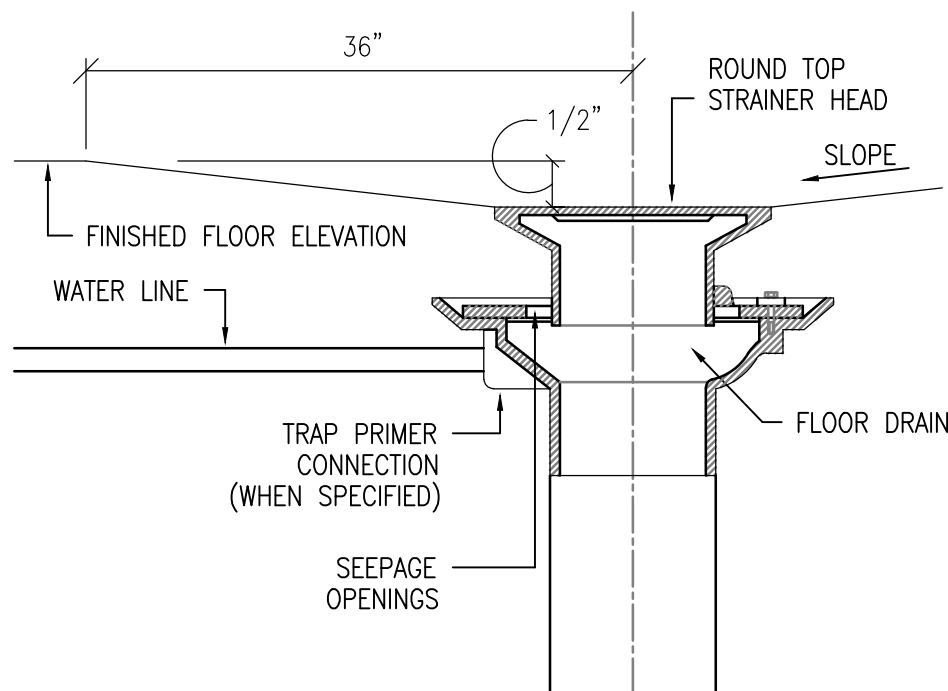
This drawing is the property of Gary A. Nash, Architect, and is not to be reproduced, copied or altered in whole or in part or used for any purpose without the permission of Gary A. Nash, Architect, and shall be returned upon request.



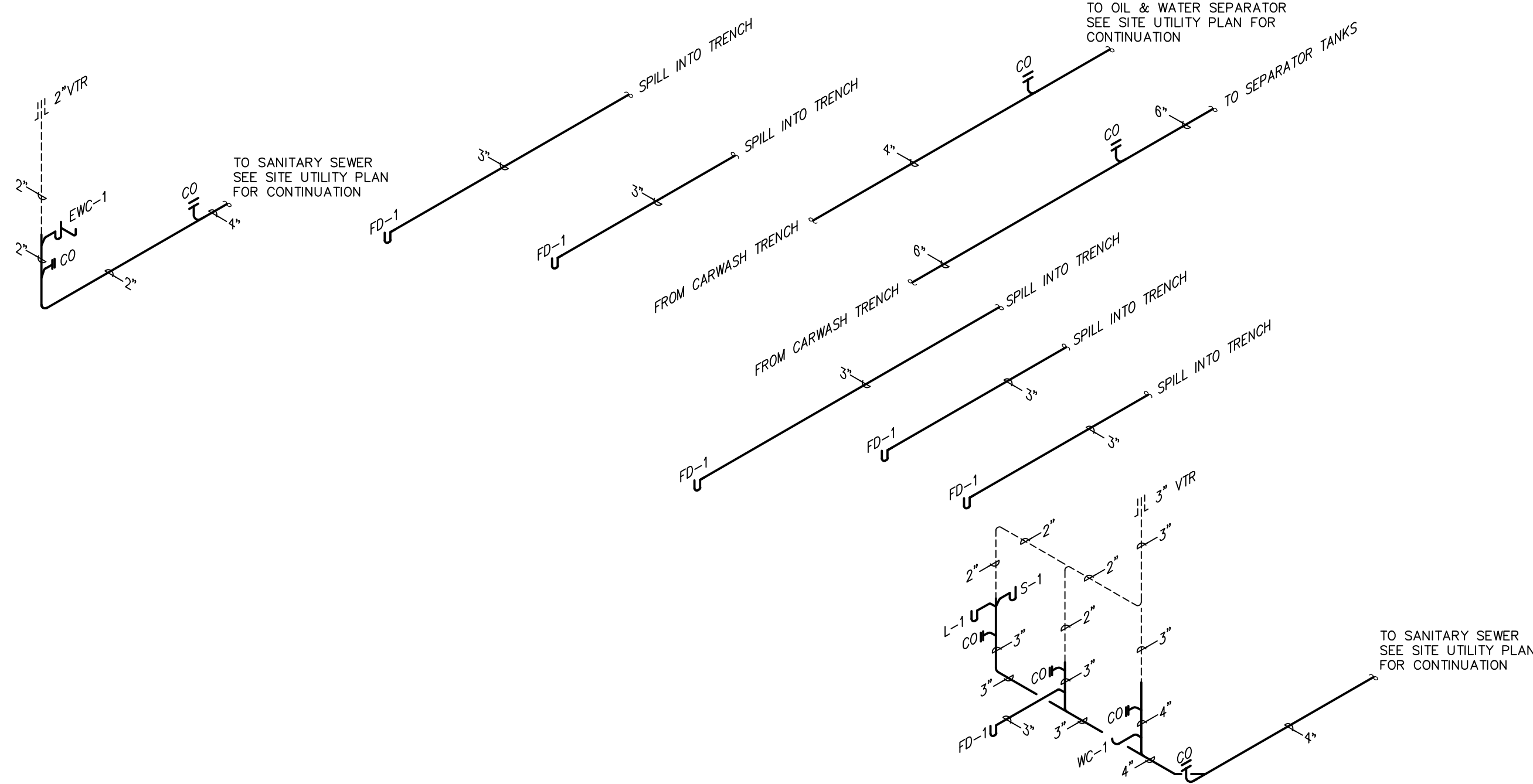
WATER METER & BFP SCHEMATIC DIAGRAM
NO SCALE



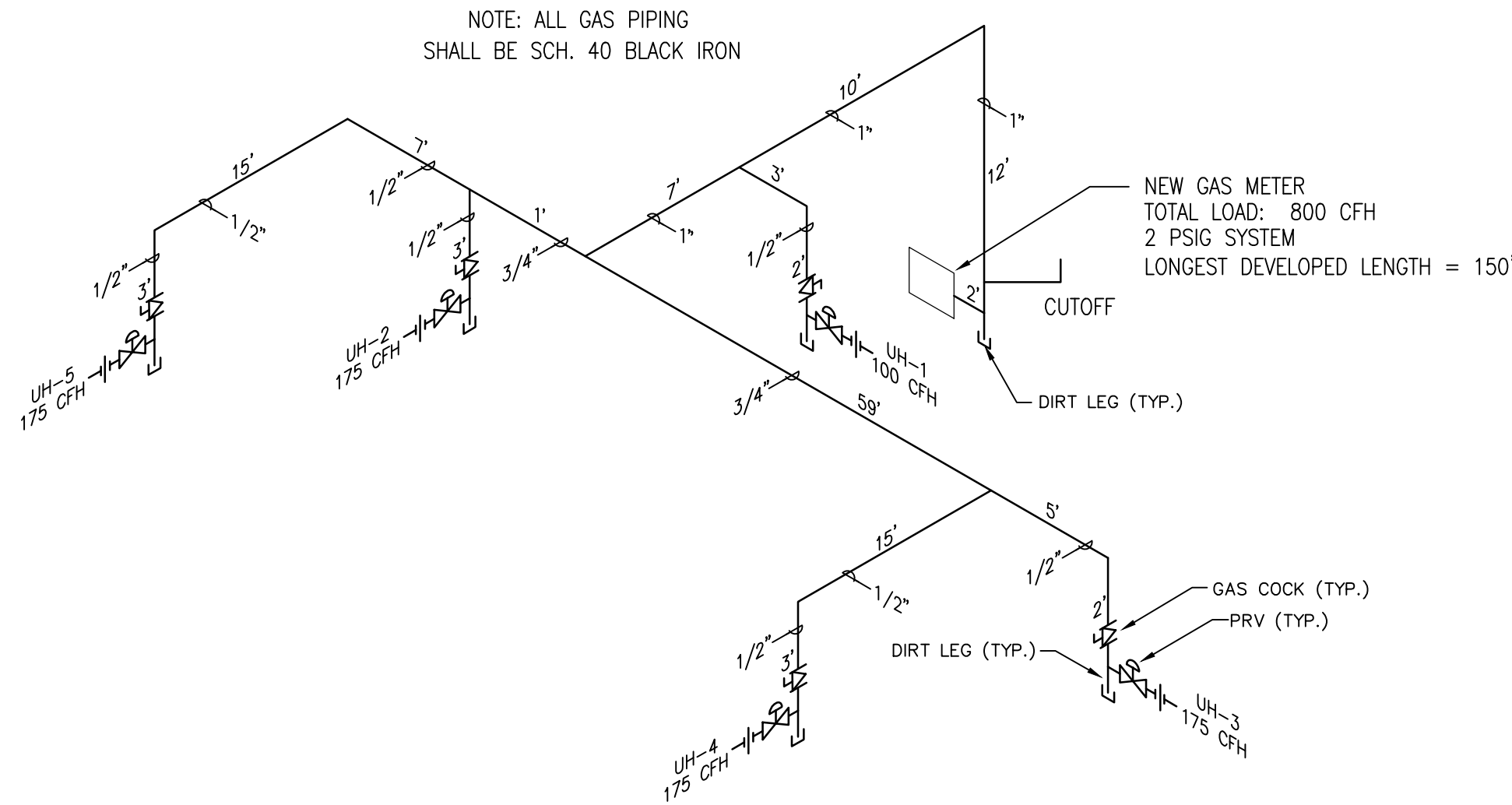
EXTERIOR CLEANOUT
NO SCALE



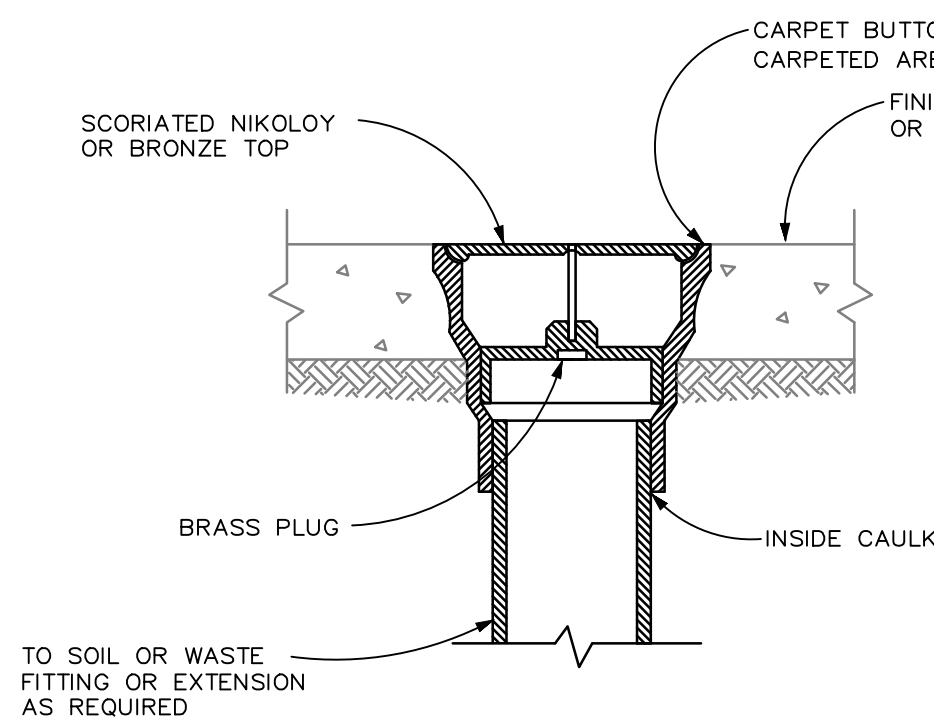
TYPICAL FLOOR DRAIN DETAIL
NO SCALE



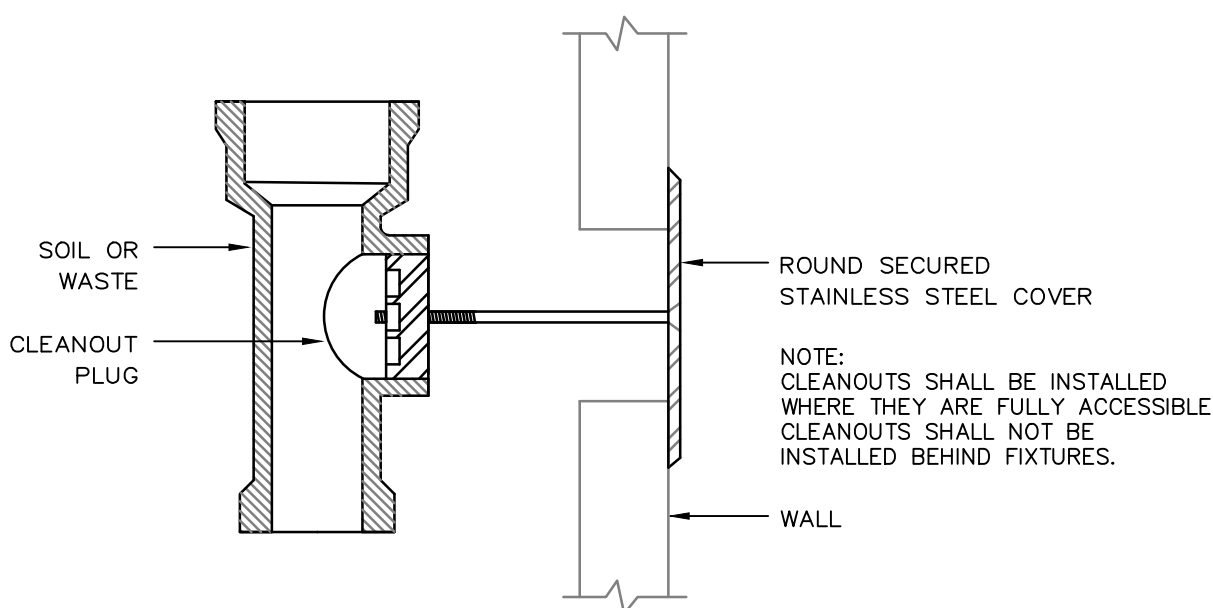
GRAVITY PIPING RISER DIAGRAM
NO SCALE



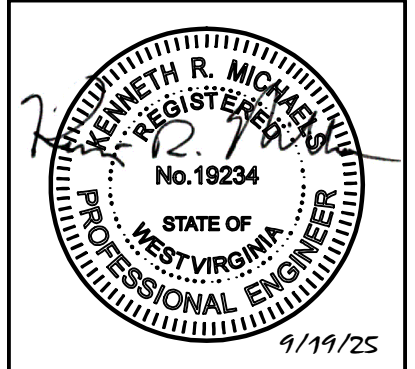
GAS PIPING RISER DIAGRAM
NO SCALE



FLOOR CLEANOUT
NO SCALE



TYPICAL WALL CLEANOUT
NO SCALE



REVISIONS:
1. 8/15/19 - REV 1
2.
3.
4.

PROJECT TITLE:

WASH-RITE Express Car Wash
Mt Dechantal Rd at Hunter Ave, Wheeling, WV 26003
Gary A. Nash
ARCHITECT

SHEET TITLE:

RISER DIAGRAMS AND PLUMBING DETAILS

COMMISSION NUMBER:

4044.02

DATE:

19 SEP 2025

DRAWN BY:

KRM

CHECKED BY:

KRM

SHEET NUMBER:

P3.0
OF .

HVAC SPECIFICATIONS

1. Contractor shall visit the site and verify existing conditions prior to bidding or beginning work.
2. Obtain permits and notify authorities for inspections.
3. Perform all work in accordance with:

A. 2018 International Mechanical Code including local amendments and updates

B. 2015 International Energy Conservation Code including local amendments and updates

C. National Fire Protection Association (NFPA) Applicable Sections

D. Sheet Metal and Air Conditioning Contractor's National Association (SMACNA)

E. Manufacturer's Standardization Society of the Valve and Fittings Industry, Inc. (MSS)

F. Local Codes & Ordinances
4. Provide 1 year comprehensive warranty (materials and labor) for all work in this contract.
5. Install Fire--Stopping for all penetrations of fire rated partitions and floors.
6. Repair all areas damaged by performing work under this contract.
7. Provide record "As-built" prints to the owner and City officials.
8. Drawings are diagrammatic only. Due to the small scale of the plans and unforeseen existing conditions they do not show every offset, bend, or fitting necessary for the complete installation in the space provided. All locations for mechanical work shall be coordinated with existing conditions and the work of other trades. Where conflicts occur they shall be resolved prior to the installation of the work involved.
9. Refer to Architectural Reflected Ceiling Plan for exact locations of all ceiling diffusers, registers and grilles.
10. Arrange for and schedule inspections in a timely manner with the construction schedule. Inspections shall be scheduled minimum 24 hours in advance.
11. Where ceilings are one-hour fire rated, provide fire rated ceiling air devices in accordance with the detail and Local Codes.
12. All work shall be First Class with emphasis on Neatness and Workmanship.
13. Install all equipment in accordance with the manufacturer's recommendations.
14. System shall be balanced to within 10% of the air quantities specified on the drawings by an Independent Test & Balance agency. Submit report for review upon completion of work.
15. Low Pressure Ductwork:

A. Low pressure ductwork shall be Galvanized Steel Sheetmetal fabricated and installed in accordance with SMACNA HVAC Duct Construction Standards, Metal and Flexible and TMA Duct Construction Manual.

B. Ducts 18 inches and larger on any side shall be stiffened by beading on min. 12 inch centers or shall be cross-braken.

C. Unless otherwise noted the minimum pressure/velocity class shall be 2 inches W.C. at 2500 ft. per minute, duct seal class "A".

D. Make rectangular branch connections using 45° fitting with volume damper per detail.

E. Provide conical spin-in fittings with balancing dampers at each diffuser run-out unless shown otherwise.

F. Flexible duct connectors on supply run-outs shall be U.L. 181 listed as Class I Air Duct. Lengths shall not exceed 5 ft. and bends shall not exceed 45°. Flexmaster Type 3 or equal by Thermaflex.

G. Seal all transverse and longitudinal seams with Duct Sealer.

H. Provide transitions from run-out size to air device neck size where required.

I. Provide duct access doors for each fire damper or other duct mounted equipment requiring service access. Access doors shall be double-latch with 3/4"x1/8" neoprene seals at connections to duct and at door-to-frame connection.

J. Dimensions shown for ductwork are clear inside dimensions. Where lined ductwork is used (return air only) increase the dimensions of metal duct to allow for insulation as necessary.
16. Dampers:

A. Single Blade Volume Dampers: 22 gauge galvanized steel (blade and frame), maximum 12" high blade. Blade edges shall be crimped or reinforced. End bearings shall be molded synthetic. Damper lever shall indicate the open and closed positions. Provide extension bracket for insulated ductwork. Dampers shall be Ruskin MD25 or MDRS25 or approved equal.

B. Multi-Blade Volume Dampers: 16 gauge galvanized steel (blades and frame), maximum 8" wide blades, opposed blade action. Blade edges shall be crimped or reinforced. End bearings shall be molded synthetic. Damper lever shall indicate open and closed positions. Provide extension bracket for insulated ductwork. Dampers shall be Ruskin MD35 or approved equal.
17. Duct Insulation:

A. Concealed Supply and Outside Air ductwork shall be completely insulated with min. 2" thick, 3/4 pcf fiberglass ductum or FSK vapor barrier (min. R=5). Joints and seams in concealed ductwork shall be sealed with Duct Sealer. Supply ductwork installed outside of the building insulation envelope shall be increased to 3" thickness (min. R=8).

B. Concealed Return ductwork shall be internally lined with 1.5" fiberglass duct liner (min. R=5). Liner shall have anti-microbial coating. Return ductwork installed outside of the building insulation envelope shall also be wrapped with 2" thick duct insulation (total min. R=8).
18. Ceiling Air Devices: Diffusers, Grilles and Registers are identified on the plan by type, size and air flow quantities (CFM) inside the "octagonal" symbols. Air devices shall be suitable for the ceiling types to be mounted in. Refer to "Air Device Schedule" for specification of each type.
19. Mount thermostats and room temperature sensors 48" AFF. Coordinate exact location with Architect. Run wiring in conduit from the wall box to above the ceiling. Use only plenum rated wiring.
20. Refrigerant Piping:

A. Type L hard drawn copper tubing conforming to ASTM B-280, cleaned and capped and marked "ACR".

B. Fittings shall be wrought copper or forged brass conforming to ANSI/ASME Standard B16.22.

C. Joints shall be brazed conforming to ANSI B9.1.

D. Install in accordance with ANSI B31.9 Building Services Piping. Support horizontal piping with clevis type pipe hangers in accordance with MSS Standard SP-69 and SP-70. Provide angle ring escutcheons at wall, ceiling and floor penetrations.

E. Insulate suction lines with 3/4" elastomeric tubular insulation. Coat exterior insulation with latex paint to protect from the weather.
21. Cooling Coil Condensate Drain Piping: Type L hard drawn copper tubing or Sch. 40 PVC
22. Piping, General:

A. Provide metal insulation shields and rigid insulation inserts at each pipe hanger or support.

B. Insulated piping outdoors and exposed indoors shall be completely covered with .016 inch thick aluminum jacketing, held in place with 1/2" wide aluminum bands on 9" centers. Fittings shall be covered with mitered segments of jackets or preformed aluminum fitting covers.

C. Support all horizontal piping with clevis type pipe hangers in accordance with MSS Standard SP-69 and SP-70, or trapeze pipe supports.

D. Provide escutcheons at all wall, ceiling and floor penetrations.
23. Controls:

A. All control wiring shall be plenum rated cable. Run in metal conduit from wall mounted devices to above-ceiling and where-ever exposed. Install per Div. 16 and NEC requirements.

B. Thru-Wall Heat Pump Units shall each be controlled by a 7-day digital programmable room thermostat to maintain room temperature at setpoint.

C. Toilet Exhaust Fan EF-1 shall be interlocked with the corresponding light switch.

D. Sidewall Exhaust Fans EF-2 & 3 shall each be controlled by a remote two-speed wall switch. When the switch is turned "On" the electric motorized intake damper shall fully open, activating end switches. After the end switches are activated the fan shall start. When the fan is switched "OFF" the fan shall stop and the dampers shall close.

E. Mechanical Room Gas Unit Heater UH-1 shall be controlled by a remote room thermostat set at 40F for freeze protection purposes only.

F. Car Wash Tunnel Gas Unit Heaters UH-2 & 3 shall each be controlled by a remote room temperature sensor interlocked with a remote thermostat set at 40F for freeze protection purposes only. Heaters shall be locked out when the Car Wash Doors are open.

NOTE:

ALL EQUIPMENT SHALL COMPLY WITH THE MINIMUM REQUIREMENTS OF THE 2015 INTERNATIONAL ENERGY CONSERVATION CODE INCLUDING THE FOLLOWING:

THRU-WALL HEAT PUMPS:
COOLING: MIN. 12.0 SEER
HEATING: MIN. 7.4 HSPF

THRU-THE-WALL HEAT PUMP SCHEDULE

SYMBOL	MANUFACTURER/ MODEL NO.	SERVICE	NOMINAL TONS	CFM	O.A. CFM	COOLING CAP. (MBH)			HEATING CAPACITY		ELECTRIC HEAT		UNIT MCA	UNIT MOCp	ELECTRICAL		NOTES
						TOTAL	SENSIBLE	AMBIENT TEMP. (°F)	MBH	AMBIENT TEMP. (°F)	WATTS	NO. STAGES			(VOLTS/PH/Hz)	DISCONNECT	
TWHP-1	GE ZONELINE AZ65H12DAM	OFFICE	1.0	449	35	11.5	8.6	95	10.0	47	2860	1	13.8	20	208/1/60	DIV. 16	EXTRUDED ALUMINUM OUTDOOR GRILLE, SUBBASE KIT, WALL SLEEVE
TWHP-2	GE ZONELINE AZ65H12DAM	STAFF	1.0	449	35	11.5	8.6	95	10.0	47	2860	1	13.8	20	208/1/60	DIV. 16	EXTRUDED ALUMINUM OUTDOOR GRILLE, SUBBASE KIT, WALL SLEEVE
TWHP-3	GE ZONELINE AZ65H12DAM	TOILET	1.0	449	35	11.5	8.6	95	10.0	47	2860	1	13.8	20	208/1/60	DIV. 16	EXTRUDED ALUMINUM OUTDOOR GRILLE, SUBBASE KIT, WALL SLEEVE

COOLING CAPACITY IS BASED ON 80°F EDB, AND 67°F EWB CONDITIONS.
HEATING CAPACITY IS BASED ON 48°F AMBIENT CONDITIONS.
APPROVED MANUFACTURERS ARE G.E., TRANE, CARRIER, LENNOX AND YORK

EXHAUST FAN SCHEDULE

SYMBOL	MANUFACTURER/ MODEL NO.	CFM	SP (IN. W.C.)	RPM	MAX. SONES	LOCATION	TYPE	DRIVE	VIBRATION ISOLATION		MOTOR HP	ELECTRICAL		MOTOR STARTER	NOTES
									TYPE	DEFL (IN.)		(VOLTS/PH/Hz)	DISCONNECT		
EF-1	GREENHECK SP-A250	120	0.375	769	2	CEILING	CENTRIFUGAL	DIRECT	-	-	83 W	120/1/60	BUILT-IN	BUILT-IN	SCR SPEED CONTROLLER, WC-10x3 WALL CAP, BACKDRAFT DAMPER
EF-2	GREENHECK SE2-16-435-B6	2250	0.125	1750	12	SIDEWALL	PROPELLER	DIRECT	-	-	1/6	120/1/60	BY ELEC.	FRACTIONAL	GRAVITY DISCHARGE DAMPER, OSHA MOTOR SIDE GUARD, EXTENDED LUBE LINES, WALL SWITCH
EF-3	GREENHECK SE2-16-435-B6	2250	0.125	1750	12	SIDEWALL	PROPELLER	DIRECT	-	-	1/6	120/1/60	BY ELEC.	FRACTIONAL	GRAVITY DISCHARGE DAMPER, OSHA MOTOR SIDE GUARD, EXTENDED LUBE LINES, WALL SWITCH
EF-4	GREENHECK SP-A250	150	0.375	769	2	CEILING	CENTRIFUGAL	DIRECT	-	-	83 W	120/1/60	BUILT-IN	BUILT-IN	SCR SPEED CONTROLLER, WALL SWITCH, BACKDRAFT DAMPER

APPROVED MANUFACTURERS ARE GREENHECK, CARNES, COOK AND PENN.

GAS FIRED UNIT HEATER SCHEDULE

SYMBOL	MANUFACTURER/ MODEL NO.	THERMAL EFF. (%)	SERVICE	TYPE	CFM	GAS HEAT (MBH)		ELECTRICAL				NOTES	
						INPUT	OUTPUT	UNIT FLA	UNIT MOCp	SUPPLY FAN H.P.	(VOLTS/PH/HZ)		DISCONNECT
UH-1	TRANE GANE100A	83	MECH ROOM	SEPARATED COMBUSTION	1600	100	83.0	4.2	15	1/10	120/1/60	BY ELEC.	PROPELLER FAN, 38"-50" THERMOSTAT, STAINLESS HEAT EXCHANGER, MOUNTING BRACKETS
UH-2	TRANE GANE175A	81	CAR WASH TUNNEL	SEPARATED COMBUSTION	2850	175	142.3	5.8	15	1/3	120/1/60	BY ELEC.	PROPELLER FAN, 38"-50" THERMOSTAT, STAINLESS HEAT EXCHANGER, MOUNTING BRACKETS
UH-3	TRANE GANE175A	81	CAR WASH TUNNEL	SEPARATED COMBUSTION	2850	175	142.3	5.8	15	1/3	120/1/60	BY ELEC.	PROPELLER FAN, 38"-50" THERMOSTAT, STAINLESS HEAT EXCHANGER, MOUNTING BRACKETS
UH-4	TRANE GANE175A	81	CAR WASH TUNNEL	SEPARATED COMBUSTION	2850	175	142.3	5.8	15	1/3	120/1/60	BY ELEC.	PROPELLER FAN, 38"-50" THERMOSTAT, STAINLESS HEAT EXCHANGER, MOUNTING BRACKETS
UH-5	TRANE GANE175A	81	CAR WASH TUNNEL	SEPARATED COMBUSTION	2850	175	142.3	5.8	15	1/3	120/1/60	BY ELEC.	PROPELLER FAN, 38"-50" THERMOSTAT, STAINLESS HEAT EXCHANGER, MOUNTING BRACKETS

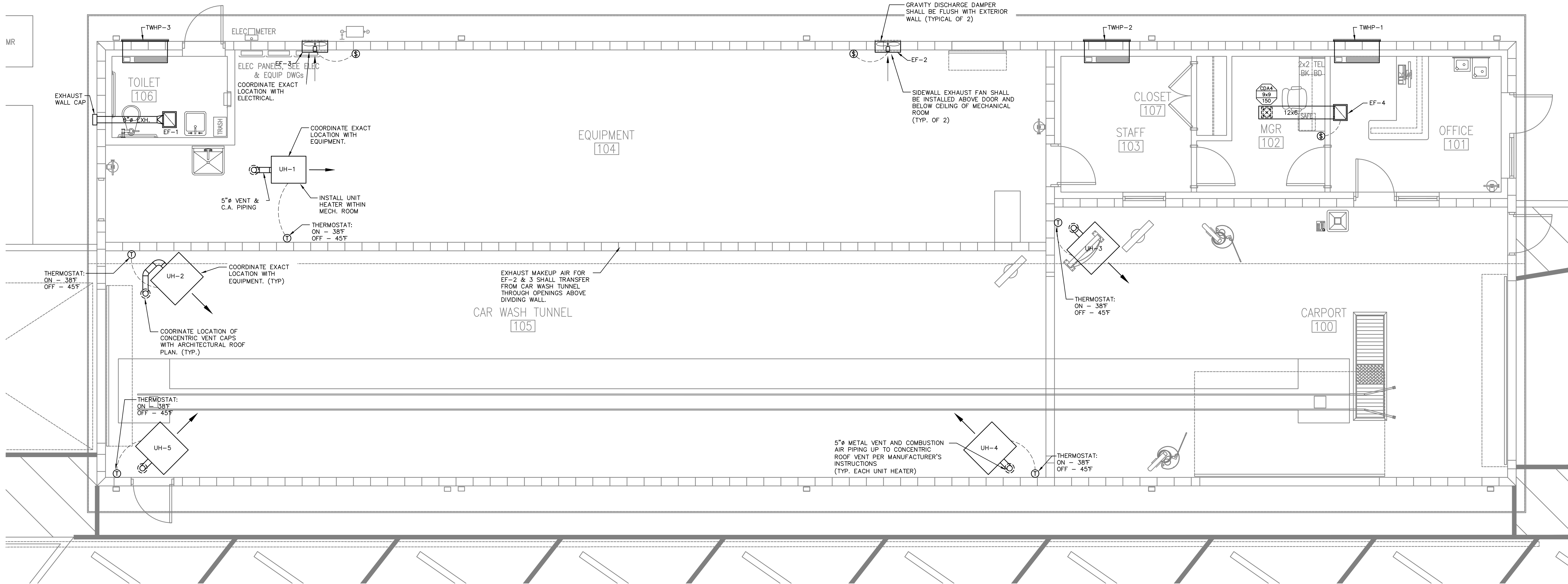
PROVIDE CONCENTRIC ROOF VERTICAL COMBUSTION AIR VENT KIT FOR EACH UNIT HEATER.
APPROVED MANUFACTURERS ARE MODINE, REZNOR AND TRANE

AIR DEVICE SCHEDULE

SYMBOL	MANUFACTURER/ MODEL NO.	TYPE	BORDER	CONSTRUCTION	SIZE (IN.)		FINISH	ACCESSORIES				NOTES
					NECK	FACE		EQUALIZING GRID	OBD	FIRE DAMPER	EXTRACTOR	
CDA	TITUS TDC-03	SQUARE LOUVERED FACE	LAY-IN	STEEL	AS NOTED	24x24	WHITE	YES	YES	AS NOTED	NO	INSULATED BACK
CDB	TITUS TDC-01	SQUARE LOUVERED FACE	SURFACE MOUNT	STEEL	AS NOTED	--	WHITE	YES	NO	AS NOTED	NO	INSULATED BACK
RGA	TITUS 350 RL	FIXED BLADE 35", 3/4" CENTERS	SURFACE MOUNT	STEEL	AS NOTED	--	WHITE	--	NO	AS NOTED	--	--
RGB	TITUS 350 RL	FIXED BLADE 35", 3/4" CENTERS	LAY-IN	STEEL	22x22	24x24	WHITE	--	NO	AS NOTED	--	--

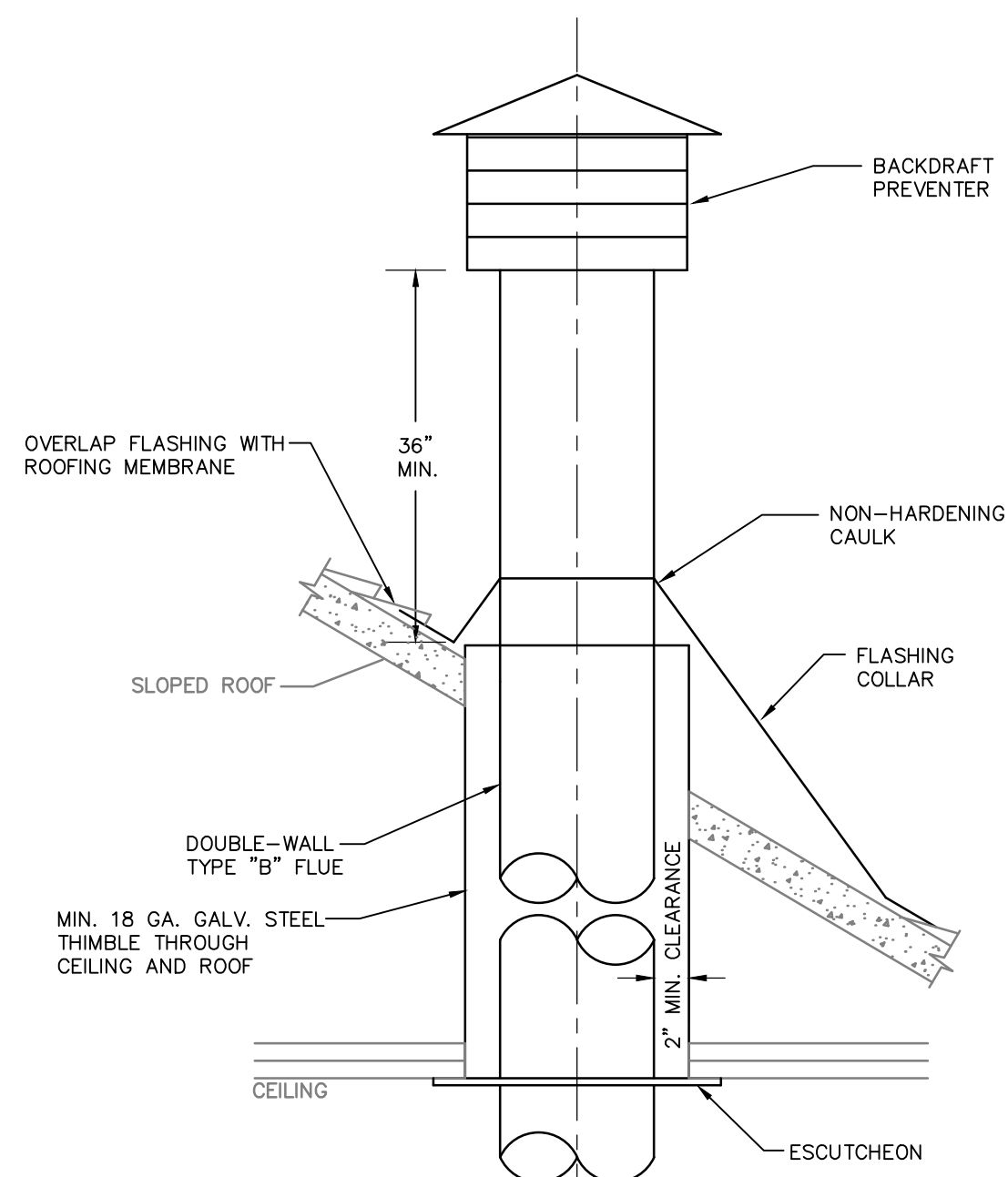
APPROVED MANUFACTURERS ARE TITUS, CARNES, KRUEGER AND METALAIR

Outside Air Calculations									
Space	Area (ft²)	EMO (P/1000 ft²)	Occupancy (People)	(cfm/person)	(cfm)	(cfm/ft²)	(cfm)	OA Required (cfm)	
Office 101	150	5	1	5	5	0.06	9	14	
Manager 102	82	5	1	5	5	0.06	5	10	
Staff 103	145	5	1	5	5	0.06	9	14	
Toilet 106	57	0	0	0	0	0	0	70	
Totals	434							108	
Note: O.A. for restrooms provided by transfer air per paragraph 403.2.2 of the 2017 OMC.									

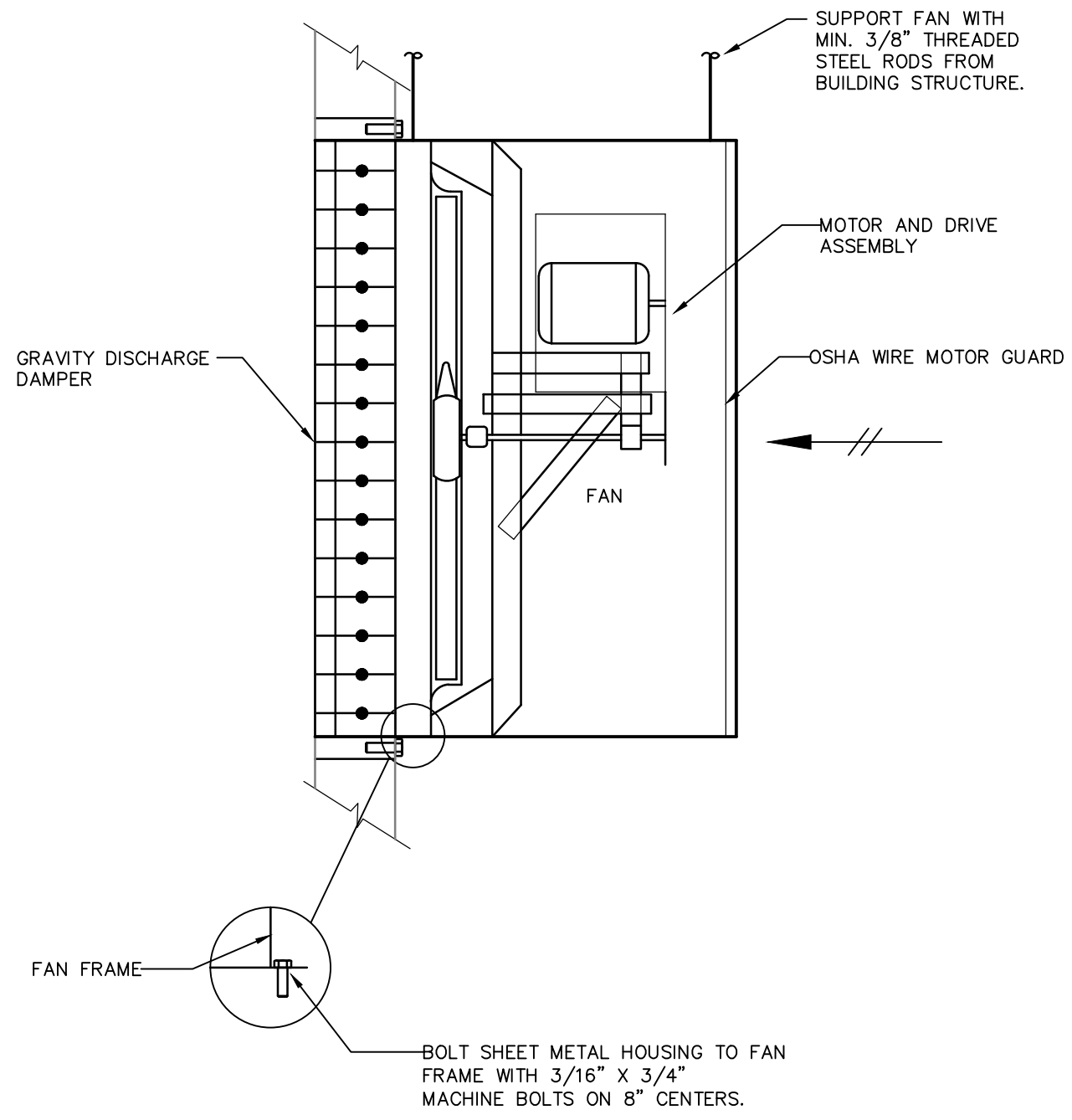


HVAC FLOOR PLAN

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



GAS HEATER FLUE THRU ROOF DETAIL
NO SCALE



WALL EXHAUST FAN DETAIL
NO SCALE

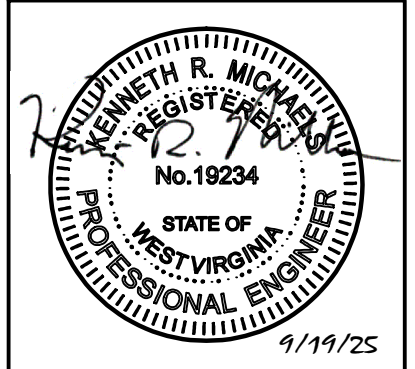
GENERAL NOTES

THESE NOTES APPLY TO ALL HVAC DRAWINGS

- DRAWINGS ARE DIAGRAMMATIC ONLY AND DO NOT SHOW ALL DETAILS, OFFSETS NOR CHANGES IN ELEVATIONS NECESSARY FOR COMPLETE INSTALLATION.
- REFRIGERANT PIPING SHALL BE SIZED AND INSTALLED IN ACCORDANCE WITH THE HEAT PUMP UNIT MANUFACTURER'S RECOMMENDATIONS. PROVIDE FILTER-DRIER AND SIGHT GLASS FOR EACH UNIT.
- DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS. INCREASE OVERALL DIMENSIONS AS REQUIRED TO ALLOW FOR INSULATION THICKNESS.
- CONDENSATE DRAIN LINES AND AUXILIARY CONDENSATE DRAIN LINES SHALL BE 1" SIZE UNLESS NOTED OTHERWISE. DISCHARGE INTO LANDSCAPED AREA.
- FLEXIBLE DUCT RUNOUTS SHALL NOT EXCEED 6 FT. IN LENGTH. BENDS SHALL NOT EXCEED 45°.
- OUTDOOR HEAT PUMP UNITS SHALL BE MOUNTED ON MIN. 6" HIGH CONCRETE PADS.
- VERIFY AVAILABLE ELECTRICAL SERVICE VOLTAGE AND COORDINATE ELECTRICAL LOADS WITH ELECTRICAL SUBCONTRACTOR PRIOR TO ORDERING EQUIPMENT.
- PROVIDE STEEL LOCKING TYPE COVERS FOR THERMOSTATS. PROVIDE WATERPROOF COVERS FOR THERMOSTATS LOCATED IN CAR WASH TUNNEL AREAS.
- DISCHARGE PUMPED CONDENSATE FROM CEILING CASSETTE INTO JANITOR'S SINK IN EQUIPMENT ROOM.

HVAC LEGEND

	RECTANGULAR DUCTWORK (14" SIDE DRAWN)
	RIGID, ROUND DUCTWORK (12" DIAMETER)
	FLEXIBLE DUCTWORK
	EXISTING DUCTWORK
	MANUAL VOLUME DAMPER
	FIRE DAMPER AND ACCESS DOOR
	45° BRANCH CONNECTION WITH VOLUME DAMPER
	CONICAL SPIN-IN FITTING WITH BUTTERFLY DAMPER
	SQUARE-TO-ROUND DUCT TRANSITION
	DUCT TRANSITION (30° MAXIMUM)
	RECTANGULAR 90° ELBOW WITH TURNING VANES
	ROUND 90° DUCT ELBOW
	REFRIGERANT PIPING (SUCTION AND LIQUID LINE)
	CONDENSATE DRAIN PIPING
	EXIST. PIPING TO BE REMOVED
	BALL VALVE
	GATE VALVE
	ROOM THERMOSTAT
	ROOM TEMPERATURE SENSOR
	DUCT SMOKE DETECTOR



REVISIONS:
1.
2.
3.
4.

WASH-RITE Express Car Wash

Mt Dechantal Rd at Hunter Ave, Wheeling, WV 26003

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ARCHITECT

120 23rd STREET South (205) 322-7482

Suite 110 Birmingham, AL U.S.A. 35233

SHEET TITLE:
HVAC FLOOR PLAN AND DETAILS

COMMISSION NUMBER:	DATE:
4044.02	19 SEP 2025
DRAWN BY:	CHECKED BY:
KRM	KRM

SHEET NUMBER:
M2.0
OF .

ELECTRICAL LEGEND

A ⓐ	CEILING OUTLET: RECESSED LIGHT FIXTURE, AS NOTED, TYPE "A" CIRCUIT #1.
⊗	CEILING OUTLET: EXIT LIGHT, SEE LIGHT FIXTURE SCHEDULE.
ⓐ ⓐ	CEILING OUTLET: RECESSED LIGHT FIXTURE. LUMINAIRE TYPE "A", CIRCUIT #1
⊖	CEILING OUTLET: SURFACE MOUNTED FLOURESCENT LIGHT FIXTURE.
ⓐ	CEILING OUTLET: JUNCTION BOX.
⊖	WALL OUTLET: WALL MOUNTED LIGHT FIXTURE.
ⓐ	WALL OUTLET: DUPLEX RECEPTACLE, 15A., 125V., 2P.,3W., NEMA 5–15R. HUBBELL #5252.
ⓐ	WALL OUTLET: DUPLEX RECEPTACLE, 15A., 125V., 2P.,3W., 3'–9"H. UNLESS OTHERWISE NOTED OR EQUAL.
ⓐ	WALL OUTLET: SINGLE RECEPTACLE, 30A., 250V., 2P., 3W. HUBBEL #9350 OR EQUAL. MOUNT AT 18" A.F.F.
ⓐ EW	WALL OUTLET: ELECTRIC WATER COOLER RECEPTACLE, GFI, 20A. 125V. 2P., 3W., NEMA 5.20R HUBBELL #5361. VERIFY EXACT HEIGHT AND LOCATION PRIOR TO INSTALLATION.
ⓐ ⓐ	WALL OUTLET: JUNCTION BOX WITH FLEXIBLE CONNECTION.
ⓐ GFI	WALL OUTLET: GROUND FAULT INTERRUPTER RECPTACLE, TERMINAL 15A., 125V., 2P.,3W., P&S NO. 1591. OR EQUAL. MOUNT AT 18" A.F.F. OR AS NOTED.
ⓐ WP	WALL OUTLET: DUPLEX RECEPTACLE, WEATHERPROOF PER 406.8(8) OF NEC, 15A., 125V., 2P., 3W., NEMA 5–15R, HUBBELL #5252 W/CWP8H
▼ W	TELEPHONE SYSTEM: WALL OUTLET WITH 3/4"C. STUBBED TO ABOVE ACCESSIBLE CEILING.
▼	TELEPHONE SYSTEM: WALL OUTLET WITH 3/4"C. STUBBED TO ABOVE ACCESSIBLE CEILING.
\$	WALL SWITCH: A.C. TYPE, 1–POLE, 15A., 125/277V., HUBBELL #1101 OR EQUAL. MOUNTED 48" A.F.F.
\$ 3	WALL SWITCH: A.C. TYPE, 3–WAY, 15A., 125/277V., HUBBELL #1103 OR EQUAL. MOUNTED 48" A.F.F.
\$ 0	WALL SWITCH: OCCUPANCY SENSOR & MANUAL ON/OFF. WATTSTOPPER DW–100 OR EQUAL.
⌋	BRANCH CIRCUIT: CONCEALED IN CEILING OR WALL.
⌋	BRANCH CIRCUIT: HOMERUN TO PANELBOARD AND 20A., 1P., BREAKER, UNLESS OTHERWISE NOTED. SHOWN, 2#12–1/2"C. HASHMARKS INDICATE NUMBER OF CONDUCTORS WHEN GREATER THAN 2#12. THE NUMBER IN THE CIRCUIT INDICATES A.W.G. WIRE SIZE WHEN DIFFERENT THAN #12 AWG.
⌋	BRANCH CIRCUIT: CONCEALED IN OR BELOW FLOOR OR UNDERGROUND
▶	COMBINATION TELE/DATA OUTLET WITH 3/4"C. STUBBED TO ABOVE ACCESSIBLE CEILING.
WP	WEATHERPROOF, NEMA 3R.
EM	EMERGENCY
NL	NIGHT LIGHT
C	CONDUIT RACEWAY
EMT	ELECTRICAL METALLIC TUBING
TBB	TELEPHONE BACKBOARD
ⓐ	CEILING EXHAUST FAN.
\$ T	MANUAL MOTOR STARTER THERMAL SWITCH. WALL MOUNT 5'–6"H. OR AT MOTOR AS SHOWN.
⌋	FUSED DISCONNECT SWITCH.
ⓐ	ELECTRICAL PANEL: SEE SCHEDULE AND SPECIFICATIONS.
ⓐ	TRANSFORMER
⌋	FUSED DISCONNECT SWITCH WITH CONNECTION TO EQUIPMENT.

NOTES

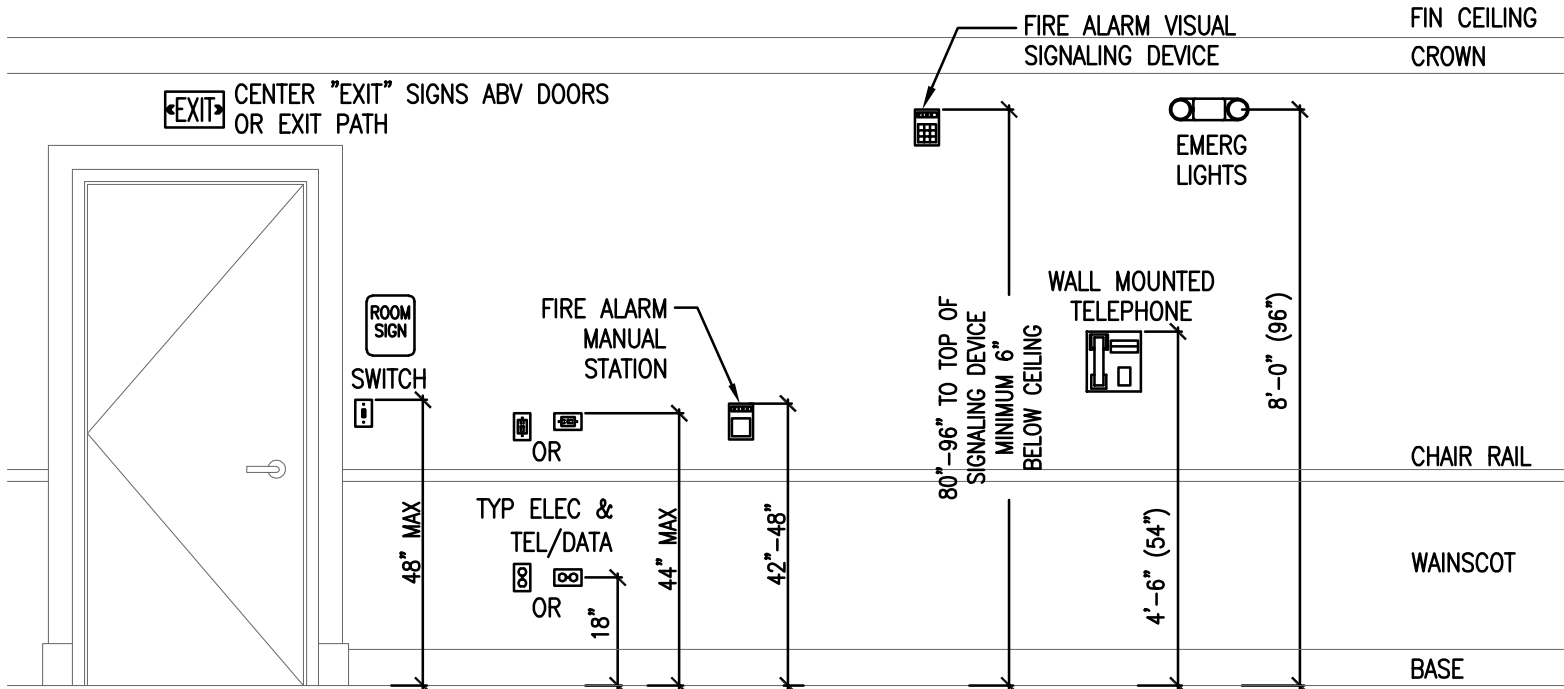
- ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL ORDINANCES. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS.
- CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL DETAILS OF THE WORK AND ALL EXISTING FIELD CONDITIONS.
- CONTRACTOR SHALL PROVIDE A COMPLETE ELECTRICAL INSTALLATION INCLUDING ALL WORK CUSTOMARILY INCLUDED EVEN IF NOT SPECIFICALLY CALLED OUT.
- THE ELECTRICAL CONTRACTOR SHALL CAREFULLY COORDINATE HIS WORK WITH OTHER CONTRACTORS THROUGH THE GENERAL CONTRACTOR FOR SPACE REQUIREMENTS, ETC.
- CONTRACTOR SHALL VERIFY ALL MECHANICAL EQUIPMENT NAMEPLATE DATA BEFORE ANY WORK IS DONE AND MAKE ANY ADJUSTMENTS IN BREAKER AND WIRE SIZE AS MAY BE REQUIRED.
- SHOULD THE CONTRACTOR FIND DISCREPANCIES OR OMISSIONS IN THE CONTRACT DOCUMENTS OR BE IN DOUBT AS TO INTENT, HE SHALL IMMEDIATELY OBTAIN CLARIFICATION FROM THE ARCHITECT OR ENGINEER.
- THE ELECTRICAL DRAWINGS ARE SCHEMATIC AND ARE NOT INTENDED TO SHOW THE EXACT LOCATION OF CONDUITS, OUTLETS, ETC.. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS AND SHALL FIT HIS WORK TO CONFORM WITH THE BUILDING CONSTRUCTION, AND WITH THE OTHER TRADES.
- ELECTRICAL CONTRACTOR SHALL VERIFY EXACT HEIGHT OF ALL COUNTER TOPS AND BACK– SPLASHES ON CASEWORK SHOP DRAWINGS, AND CHANGE SPECIFIED MOUNTING HEIGHT OF WALL OUTLETS INDICATED AS REQUIRED SO THAT BOTTOM OF OUTLET BOX IS 2" ABOVE TOP OF BACKSPLASH OR IF NO BACKSPLASH IS USED, 4" ABOVE COUNTERTOP.
- DO NOT MOUNT OUTLETS BACK–TO–BACK. PROVIDE MINIMUM 24" SEPARATION IN FIRE RATED WALLS.
- ALL OUTLETS IN EXPOSED CONCRETE BLOCK WALLS SHALL BE ADJUSTED AS REQUIRED TO ALLOW CUTTING OF ONLY ONE BLOCK. MAINTAIN UNIFORM HEIGHTS THROUGHOUT THE BUILDING.
- VERIFY ALL DOOR SWINGS WITH ARCHITECT BEFORE ROUGHING LIGHT SWITCHES.
- CONTRACTOR SHALL CHECK ALL LIGHT FIXTURES FOR EXACT TYPE MOUNTING AND SPACE REQUIRED BEFORE ROUGHING IN.
- VOLTAGE DROP: FOR 20 AMP CIRCUITS OVER 100FT. AND LESS THAN 175 FT, USE #10 CONDUCTORS. FOR 20 AMP CIRCUITS OVER 174 FEET AND LESS THAN 275 FEET, USE #8 CONDUCTORS.
- ALL CONDUITS CROSSING EXPANSION JOINTS SHALL HAVE EXPANSION TYPE FITTINGS.
- THE ATTACHED DRAWINGS WERE DEVELOPED FROM RECORD DRAWINGS AND INFORMATION PROVIDED BY OTHERS WHICH MAY NOT REFLECT ACTUAL FIELD CONDITIONS. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS IN THE FIELD BEFORE PROCEEDING WITH SUBSEQUENT WORK. THE DESIGN TEAM SHALL BE NOTIFIED OF ANY DISCREPANCIES OR CONFLICTS WITH DRAWINGS FOR CLARIFICATION PRIOR TO PROCEEDING WITH WORK.

SEE CARWASH VENDOR DRAWINGS FOR ADDITIONAL REQUIREMENTS. WHERE THESE PLANS & CARWASH VENDOR DRAWINGS DIFFER, CARWASH DRAWINGS PREVAIL.

LIGHT FIXTURE SCHEDULE

MARK	DESCRIPTION	LAMPS	MANUFACTURER
EM	EMERGENCY LIGHTING UNIT, LISTED WET LOCATION, 32" BATTERY, UNV.	W/UNIT	LITHONIA #IND1236–H1212–PREM–XX EXITRONIX #WNX–12–36–Z1212 OR EQUAL
EWB	WALL SCONCE WITH EMERGENCY BATTERY PACK, U.L. LISTED WET LOCATION, UNV.	11,000 Lm 101W	LSI #SFCL–WB–LED–PL1–50–UE–XX–EM OR EQUAL
FF4 (EF4)	LED STRIP, 4' L., ELECTRONIC BALLAST, WIREGUARD, MULTI–TAP BALLAST, UNV. EF4 = FF4 + EMERGENCY BALLAST	4000 LM 33W	PHILIPS #LF–4–FR–39–35–N–DAT–(EMLED) OR EQUAL
FGB (EGB)	RECESSED LAY–IN LED 2'x4', FLAT STEEL DOOR, 0.125 ACRYLIC LENS, ELECTRONIC BALLAST, MULTI–TAP BALLAST, UNV. EGB = FGB + EMERGENCY BALLAST	4500 Lm 36W	LSI #LPEC24–LED–SS–NW–UE–(EM) OR EQUAL
LBA	LOW BAY FIXTURE, ACRYLIC REFRACTOR, U.L. LISTED WET LOCATION, UNV.	12,000 Lm 112W	DAILIGHT #HEGRC4GN–SNG–XX OR EQUAL
LRA	6" CAN FIXTURE, LED, U.L. LISTED WET LOCATION, UNV.	112W 21W	CALCULITE #6CWLED–2000 LUMENS UNV, 3500K, CLEAR OR EQUAL
MCA	CANOPY FIXTURE, GLASS LENS, U.L. LISTED WET LOCATION, UNV. COLOR BY ARCHITECT	12,480 Lm 108W	COOPER #TT–A5–LED–E1–WQ–XX OR EQUAL
MPA	POLE MOUNTED SHOEBOX FIXTURE, DIE CAST ALUMINUM HOUSING, LENS & GASKETED, U.L. LISTED WET LOCATION 30' SQUARE STEEL POLE, UNV. TYPE III DISTRIBUTION	11,900 Lm 109W	COOPER #GLEON–AE–04–LED–E1–T3–XX–LCF OR EQUAL
XA	SELF–POWERED LED UNIVERSAL MOUNT SINGLE–FACE EXIT SIGN, DIE CAST ALUMINUM HOUSING, WHITE BODY & STENCIL GREEN LETTERS, BATTERY, UNV.	SUPPLIED W/ UNIT	EMERGILITE # LEDPXN G120 SURELITE # CCX–7100–GW120 DUALITE # LCS–GWE EXITRONIX #G400U–WB–WW McPHILBEN # ER55L–1–120V–W–G CHLORIDE # RLN1GW
XC	SAME AS 'XA' EXCEPT WET LOCATION	W/UNIT	– OR EQUAL

- NOTES:
- MANUFACTURE'S PART NUMBERS ARE FOR LEVEL OF QUALITY AND PERFORMANCE. E.C. IS TO PROVIDE ALL OPTIONS AND ACCESSORIES TO COMPLY WITH DESCRIPTION AS WELL AS MODEL NOS.
 - 10 DAY PRIOR APPROVAL IS REQUIRED ON ALL FIXTURES NOT SPECIFICALLY CALLED OUT OR LISTED AS "OR EQUAL."
 - E.C. IS TO COORDINATE FIXTURE COLORS & LAMP TEMP WITH ARCHITECT PRIOR TO ORDERING.
 - E.C. IS TO VERIFY CEILING TYPE AND COMPATIBILITY WITH FIXTURES PRIOR TO ORDERING.
 - FUSE FIXTURES IN FIELD.
 - COORDINATE LAMP TEMP WITH ARCHITECT.



COORDINATE ALL TRADES SUCH THAT ELECTRICAL DEVICES, SWITCHES, LIGHTS, ETC DO NOT CONFLICT WITH OR "SPLIT" CHAIR RAIL, WAINSCOT, BASE, CROWN, DOOR & WINDOW TRIM, ETC. AND ARE PROPERLY & NEATLY LOCATED FOR THEIR INTENDED FUNCTION IN FINISHED MATERIALS. ALL ITEMS SHALL BE LOCATED WITHIN ONE FINISH MATERIAL ONLY.

DEVICE HEIGHT TO CENTER LINE OF BOX FOR WIRING DEVICES AT LOWER HEIGHT. HEIGHTS TO TOP OF BOX FOR LIGHTING CONTROLS, PULL STATIONS, ETC. TO BE NO MORE THAN 48".

ALL DEVICES, FIXTURES & ACCESSORIES SHALL CONFORM TO THE CURRENT EDITIONS OF THE INTERNATIONAL CODE CONGRESS' (ICC) MODEL CODES, AMERICAN NATIONAL STANDARDS INSTITUTE'S (ANSI) A117.1, "ACCESSIBLE & USABLE BUILDING & FACILITIES", THE "AMERICANS' WITH DISABILITIES ACT" (ADA) & THE STANDARDS OF THE LOCAL AUTHORITIES HAVING JURISDICTION.

COMPLY WITH THE REQUIREMENTS FOR GANGED &/OR BACK TO BACK J–BOXES IN FIRE RATED OR SMOKE PROOF PARTITIONS AS REQ'D TO MAINTAIN THE INTEGRITY OF THE ASSEMBLY.

SEE ALSO INTERIOR ELEVATIONS FOR COORDINATION W/ MILLWORK, TRIM, EQUIPMENT, ETC.

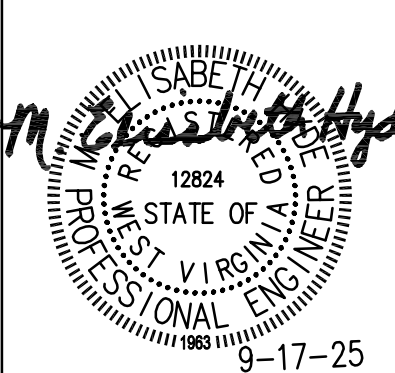
DEVICE MOUNTING HEIGHT DETAIL
NO SCALE



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ENGINEER
LIZ HYDE

PROJECT #
25231.0



REVISIONS:
1.
2.
3.
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WASH-RITE Express Car Wash
Mt Dechantal Rd at Hunter Ave, Wheeling, WV 26003

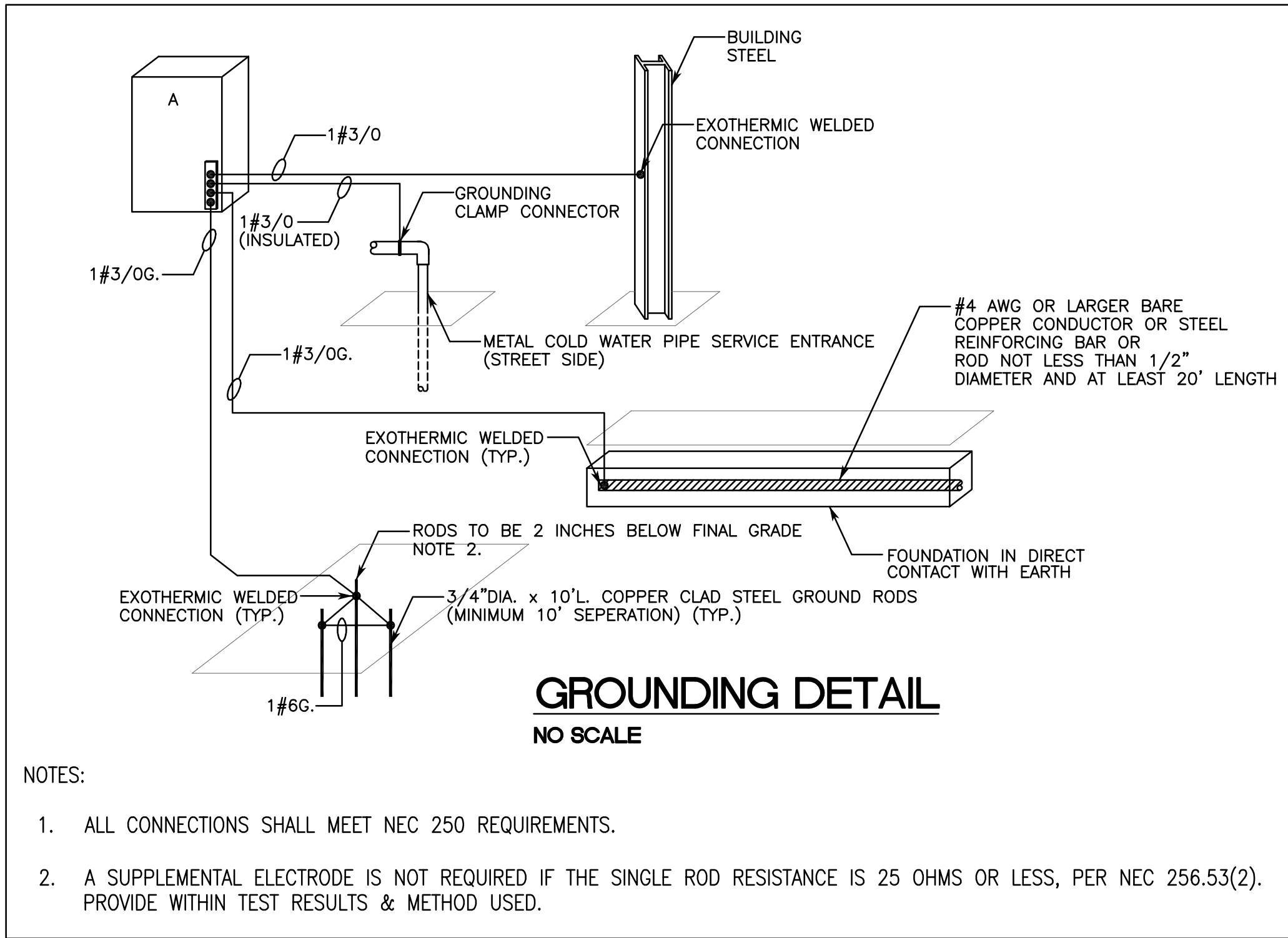
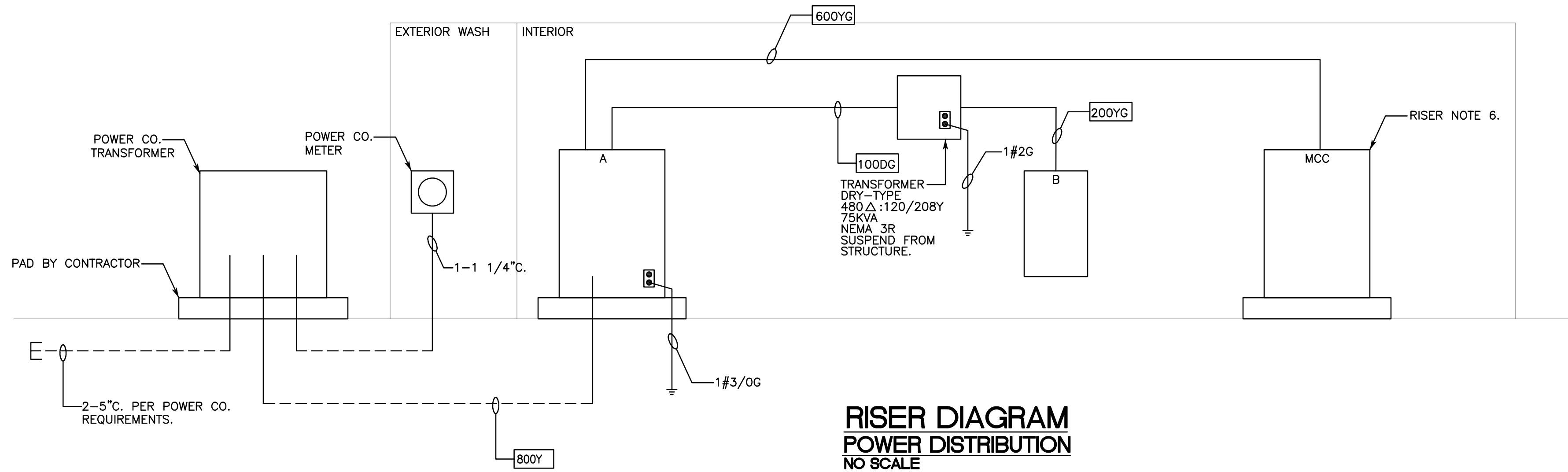
Gary A. Nash
ARCHITECT

PROJECT TITLE

120 23rd STREET South (205) 322–7482
Suite 110 Birmingham, AL U.S.A. 35233

SHEET TITLE:	
LEGEND, NOTES, AND FIXTURE SCHEDULE	
COMMISSION NUMBER:	DATE:
4044.02	17 SEPT 2025
DRAWN BY:	CHECKED BY:

SHEET NUMBER:
E0.1
OF XX



FEEDER SCHEDULE			
20SG	2#12 & 1#12G.-1/2"C.	200YG	4#3/0 & 1#6G.-3"C.
30SG	2#10 & 1#10G.-3/4"C.	600YG	2 SETS OF 4#350MCM & 1#1G.-3 1/2"C.
100DG	3#2 & 1#8G.-1 1/2"C.	800Y	2 SETS OF 4#500MCM -4"C.

- SERVICE NOTES:
- THE SECONDARY SERVICE: 277/480V., 3Ø, 4W., GROUND NEUTRAL, WYE CONNECTED AS SHOWN ON SINGLE LINE DIAGRAM.
 - ARRANGE WITH LOCAL ELECTRICAL SERVICE COMPANY FOR SERVICE TO BE BROUGHT TO BUILDING, AND FOR THE INSTALLATION OF METER, PAY ALL CHARGES (IF ANY) IN CONNECTION THEREWITH, INCLUDING PERMANENT METER DEPOSIT, WHICH DEPOSITS WILL BE REFUNDED TO CONTRACTOR AT TIME OF OWNER'S OCCUPANCY IN THE BUILDING.
 - VERIFY WITH UTILITY COMPANIES INVOLVED, THAT LOCATIONS, ARRANGEMENT, POWER COMPANY VOLTAGE, PHASE, METERING REQUIRED, AND CONNECTIONS TO UTILITY SERVICE ARE IN ACCORDANCE WITH THEIR REGULATIONS AND REQUIREMENTS. IF THEIR REQUIREMENTS ARE AT VARIANCE WITH THESE DRAWINGS, SPECIFICATIONS, CONTRACT SHALL INCLUDE AN ADDITIONAL COST NECESSARY TO MEET THOSE REQUIREMENTS WITHOUT EXTRA COST TO OWNER AFTER BIDS ARE ACCEPTED.
 - OBTAIN FROM UTILITY COMPANY ANY ADDITIONAL CHARGES FOR SERVICE OF TYPE, SIZE AND LOCATION CALLED FOR. INCLUDE CHARGES IN BID TO BE PAID BY CONTRACTOR TO APPROPRIATE PARTY. PROVIDE PAYMENT OF THESE CHARGES SO AS TO ALLOW LOGICAL PROGRESSION OF CONSTRUCTION AND AVOID DELAY OF COMPLETION.
 - COORDINATE SERVICE WORK WITH POWER COMPANY. FURNISH AND INSTALL ALL SERVICE RELATED ITEMS NOT PROVIDED BY THE POWER COMPANY. PERFORM WORK IN ACCORDANCE WITH THEIR REQUIREMENTS AND RECOMMENDATIONS.
 - MCB OF MPA SHALL BE GFI TYPE. FIELD TEST PER NEC 230.95(c).

- RISER NOTES:
- INDUSTRY AVERAGE EQUIPMENT SIZES WERE USED TO DETERMINE FIT AND WORKING CLEARANCES. E.C. IS TO VERIFY FIT AND WORKING CLEARANCES BASED ON ACTUAL EQUIPMENT CONSIDERED.
 - PROTECTIVE DEVICES RATED 800A & GREATER SHALL BE STATIC TRIP TYPE WITH LSI SETTINGS.
 - SEE FLOOR PLAN FOR PLACEMENT OF EQUIPMENT.
 - ALL EXTERIOR EQUIPMENT TO BE IN NEMA 3R ENCLOSURES.
 - MCC PROVIDED BY TUNNEL EQPT VENDOR. COORDINATE FINAL REQUIREMENTS WITH VENDOR.

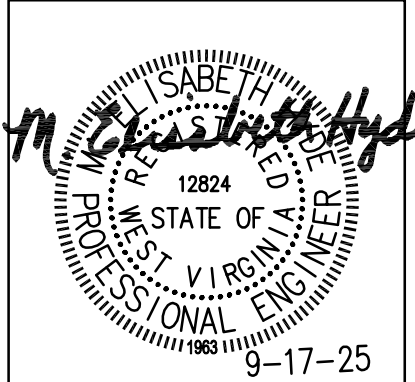
- SHORT CIRCUIT, COORDINATION, AND ARCH FLASH:
- ACTUAL AVAILABLE FAULT CURRENT DATA WAS NOT OBTAINED FROM THE POWER COMPANY. E.C. IS TO OBTAIN FAULT CURRENT DATA FROM POWER COMPANY.
 - E.C. TO PROVIDE SHORT CIRCUIT, COORDINATION, AND ARC FLASH STUDIES.
 - STUDIES ARE TO BE PERFORMED USING SKM POWERWARE, EASYPower, OR ETAP SOFTWARE UNDER THE SUPERVISION OF A REGISTERED ENGINEER. ARC FLASH STUDIES SHALL BE CONSISTANT WITH IEEE 1584.
 - PROVIDE PRELIMINARY STUDY REPORT AT TIME OF POWER EQUIPMENT SUBMITTALS. POWER EQUIPMENT SUBMITTALS WILL BE REJECTED WITHOUT PRELIMINARY STUDY.
 - USE RESULTS OF STUDY TO SELECT AIC RATINGS, BREAKER TYPES, ETC FOR POWER EQUIPMENT PRIOR TO ORDERING EQUIPMENT.
 - MARK EQUIPMENT PER BOTH NFPA 70 AND 70E TO INCLUDE, BUT NOT LIMITED TO, ARC FLASH LABELS.
 - PROVIDE FINAL STUDY REPORT AS PART OF CLOSE-OUT DOCUMENTATION (BOTH HARD COPY AND ELECTRONIC PDF FORM).



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PROJECT #
25231.0



REVISIONS:	
1.	
2.	
3.	
4.	

WASH-RITE Express Car Wash
Mt Dechantal Rd at Hunter Ave, Wheeling, WV 26003

PROJECT TITLE:

120 23rd STREET South (205) 322-7482
Suite 110 Birmingham, AL U.S.A. 35233

GARY A. NASH
ARCHITECT

SHEET TITLE	
RISER DIAGRAM	
COMMISSION NUMBER:	DATE:
4044.02	17 SEPT 2025
DRAWN BY:	CHECKED BY:

SHEET NUMBER:
E0.2
OF XX

EQUIPMENT SCHEDULE – TUNNEL BLDG										
MARK	DESCRIPTION	ELECTRICAL VOLT/PHASE	CHARACTERISTICS			PANEL	DISCONNECT SIZE	SW. FUSE	FEEDER	REMARKS
			KW	HP	FLA					
EF 1	EXHAUST FAN	120/1	.083			B	W/UNIT	–	20SG	1., 3.
EF 2	EXHAUST FAN	120/1		1/6		B	\$ _T	–	20SG	1., 4.
EF 3	EXHAUST FAN	120/1		1/6		B	\$ _T	–	20SG	1., 4.
EF 4	EXHAUST FAN	120/1	.083			B	W/UNIT	–	20SG	1.
EW 1	WATER HEATER	208/1	3			B	30/2	NF	20SG	1., 2.
EW 2	WATER HEATER	208/1	4.1			B	30/2	NF	30SG	1., 2.
OD 1	DOOR	120/1			16	B	SW	–	20SG	1.,4.,6.
OD 2	DOOR	120/1			16	B	SW	–	20SG	1.,4.,6.
R 1	RUG BEATER	120/1			8	B	GFI WP RECEPT	–	20SG	1.
R 2	RUG BEATER	120/1			8	B	GFI WP RECEPT	–	20SG	1.
TWHP 1	THRU-THE-WALL HEAT PUMP	208/1			11.6	B	30/2	NF	20SG	1., 2.
TWHP 2	THRU-THE-WALL HEAT PUMP	208/1			11.6	B	30/2	NF	20SG	1., 2.
TWHP 3	THRU-THE-WALL HEAT PUMP	208/1			11.6	B	30/2	NF	20SG	1., 2.
UH 1	GAS UNIT HEATER	120/1			4.2	B	SW	–	20SG	1.
UH 2	GAS UNIT HEATER	120/1			5.8	B	SW	–	20SG	1.
UH 3	GAS UNIT HEATER	120/1			5.8	B	SW	–	20SG	1.
UH 4	GAS UNIT HEATER	120/1			5.8	B	SW	–	20SG	1.
UH 5	GAS UNIT HEATER	120/1			5.8	B	SW	–	20SG	1.
NOTES:										
1. VERIFY NAMEPLATE DATA PRIOR TO ROUGH-IN.										
2. PROVIDE NEC REQUIRED CLEARANCES FOR DISC.										
3. SWITCH & CIRCUIT WITH LIGHTS.										
4. PROVIDE SWITCH.										
5. FEED FROM OUTDOOR UNIT.										
6. PROVIDE HP RATED SWITCH AS DISCONNECT. LOCATE SWITCH NEXT TO DOOR CONTROLLER.										

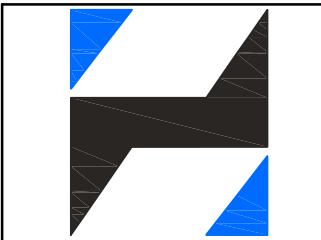
FOR
TUNNEL
VENDOR
USE

PANEL: A		277/480V		PHASE/WIRE: 3P., 4W.		MAIN BUS RATING (A): 800				MAIN CB TRIP: 800A							
MOUNTING: Surface						MINIMUM BREAKER INTERRUPTING CAPACITY (RMS SYM AMPS):											
DEVICE:		BRANCH CIRCUIT				PHASE LOAD (VOLT - AMPS)				BRANCH CIRCUIT				DEVICE:			
AMPS TRIP	POLES	DESIGNATION	VOLT-AMPS								VOLT-AMPS				POLES	AMPS TRIP	
			LIGHTS	RECEPT	HVAC	MISC	NO.	Ø A	Ø B	Ø C	NO.	LIGHTS	RECEPT	HVAC	MISC		
100	3	Transformer (Panel B)	4090	1200	2412	7830	1	15532			2						
			4090	1600	3612	9000	3		18302		4						
			4200	1200	3484	8020	5			16904	6						
						3900	7	3900			8						
30	3	Air Compressor 1				3900	9		3900		10						
						3900	11			3900	12						
						3900	13	3900			14						
30	3	Air Compressor 2				3900	15		3900		16						
						3900	17			3900	18						
							19	0			20						
200	3	SPACE					21		0		22						
							23			0	24						
						84200	25	84200			26						
400	3	Carwash MCC				84200	27		84200		28						
						84200	29			84200	30						
			Total VA/Phase				107532	110302	108904	Largest HVAC Load				3612	Connect Load (VA)		326738
			Lighting Subtotal				4090	4090	4200						Demand Load (VA)		330736
			Receptacle Subtotal				1200	1600	1200						Required Ampacity (A)		398
			HVAC Subtotal				2412	3612	3484								
			Misc Subtotal				99830	101000	100020								

* LOAD INCLUDES TUNNEL LOADS

FOR
TUNNEL
VENDOR
USE

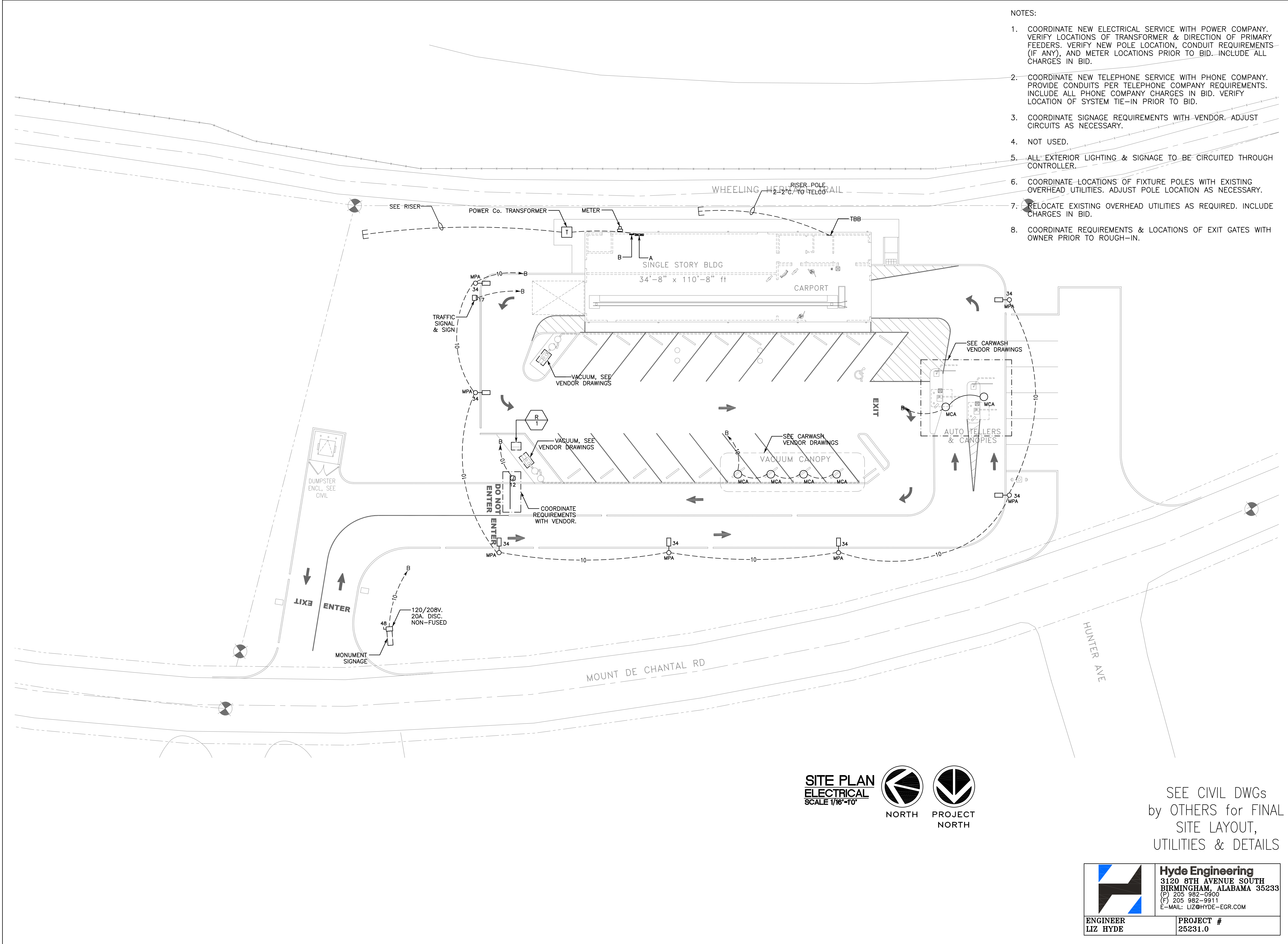
PANEL: B		120/208V		PHASE/WIRE: 3P., 4W.			MAIN BUS RATING (A): 200						MAIN CB TRIP: 200					
MOUNTING:		Surface					MINIMUM BREAKER INTERRUPTING CAPACITY (RMS SYM AMPS):											
DEVICE:		BRANCH CIRCUIT					PHASE LOAD (VOLT - AMPS)					BRANCH CIRCUIT					DEVICE:	
AMPS TRIP	POLES	DESIGNATION	VOLT-AMPS			NO.	VOLT-AMPS			NO.	VOLT-AMPS			DESIGNATION	POLES	AMPS TRIP		
			LIGHTS	RECEPT	HVAC		MISC	Ø A	Ø B		Ø C	LIGHTS	RECEPT				HVAC	MISC
20	1	Tunnell Lighting	450			1	690			2	240			E. Room Lighting	1	20		
20	1	Tunnell Lighting	750			3		990		4	240			E. Room Lighting	1	20		
20	1	Control 120V (1-H)			240	5			840	6	600			Vacuum Lighting	1	20		
20	1	Softener (1-P)			90	7	690			8	600			Vacuum Lighting	1	20		
20	1	Air Compressor (10-A)			1600	9		1780		10		180		Master Comp	1	20		
20	1	Air Dryer (10-L)			240	11			300	12		60		Digital Queue (20-0)	1	20		
20	1	Control 120V (24A)			300	13	420			14		120		Relay Box (20-1)	1	20		
20	1	Sofit Lighting	1400		15		1580			16		180		SPS (20-C)	1	\$20		
20	1	Exterior Emergency Lights	600		17			780	18			180		SPS (20-C)	1	\$20		
\$20	1	EWC			500	19	2100			20		1600		Gate (20-D)	1	20		
20	1	Lighting Cntrl	200		21			320		22		120		Gate (20-D)	1	20		
20	1	Mech Room Recpt		800	23				920	24		120		Wait and Go (30-C)	1	20		
\$20	1	Equipment Room Recpt		200	25	440				26		240		Entrance Sign (30-E)	1	20		
20	1	Office Recpt		1000	27		1120			28		120		Received Sign (30-G)	1	20		
20	1	Office Recpt		400	29				580	30		180		Digital Menu (30-H)	1	20		
20	1	Office Lights and EF-1	1600		31	1780				32		180		Digital Menu (30-I)	1	20		
20	1	Staff Recpt		600	33		2100			34	1500			Site Lighting	1	20		
20	1	Unit Heater 4 & 5			1072	35			2472	36	1400			Vacuum Canopy	1	20		
20	1	OD-2 Overhead Door			1600	37	1600			38				spare	1	20		
20	2	TWHP-1		1206	39		1206			40				spare	1	20		
				1206	41				2406	42		1200		Hand Dryer	1	20		
20	2	TWHP-2		1206	43	2406				44	1200			Tunnel and Carport Lights	1	20		
				1206	45		2806			46		1600		Rug Beater #1 & 2	1	20		
20	2	TWHP-3		1206	47			2806	2806	48	1600			Signage	1	20		
				1206	49	2806				50		1600		BP-1 (Booster Pump)	1	20		
20	2	EWH-1			1500	51	3100			52		1600		CP-3 (Compressor)	1	20		
					1500	53		2100		54		600		WS-1	1	20		
20	1	TBB Recpt		1000	55	2600				56		1600		OD-1 Overhead Door	1	20		
20	1	EF 2, 3, & 4			1200	57		3300		58		2100						
20	1	Unit Heaters 1, 2, & 3			1600	59			3700	60		2100		EWH-2	2	30		
			Total VA/Phase				15532	18302	16904	Largest HVAC Load				1206	Connect Load (VA)		50738	
			Lighting Subtotal				4090	4090	4200						Demand Load (VA)		54134.5	
			Receptacle Subtotal				1200	1600	1200						Required Ampacity (A)		150	
			HVAC Subtotal				2412	3612	3484									
			Misc Subtotal				7830	9000	8020									



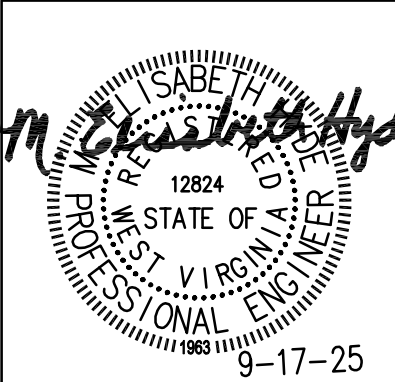
ENGINEER
LIZ HYDE

PROJECT #
25231.0

3120 8TH AVENUE SOUTH
BIRMINGHAM, ALABAMA 35233
(P) 205 982-0900
(F) 205 982-9911
E-MAIL: LIZ@HYDE-EGR.COM



- NOTES:
1. COORDINATE NEW ELECTRICAL SERVICE WITH POWER COMPANY. VERIFY LOCATIONS OF TRANSFORMER & DIRECTION OF PRIMARY FEEDERS. VERIFY NEW POLE LOCATION, CONDUIT REQUIREMENTS (IF ANY), AND METER LOCATIONS PRIOR TO BID. INCLUDE ALL CHARGES IN BID.
 2. COORDINATE NEW TELEPHONE SERVICE WITH PHONE COMPANY. PROVIDE CONDUITS PER TELEPHONE COMPANY REQUIREMENTS. INCLUDE ALL PHONE COMPANY CHARGES IN BID. VERIFY LOCATION OF SYSTEM TIE-IN PRIOR TO BID.
 3. COORDINATE SIGNAGE REQUIREMENTS WITH VENDOR. ADJUST CIRCUITS AS NECESSARY.
 4. NOT USED.
 5. ALL EXTERIOR LIGHTING & SIGNAGE TO BE CIRCUITED THROUGH CONTROLLER.
 6. COORDINATE LOCATIONS OF FIXTURE POLES WITH EXISTING OVERHEAD UTILITIES. ADJUST POLE LOCATION AS NECESSARY.
 7. RELOCATE EXISTING OVERHEAD UTILITIES AS REQUIRED. INCLUDE CHARGES IN BID.
 8. COORDINATE REQUIREMENTS & LOCATIONS OF EXIT GATES WITH OWNER PRIOR TO ROUGH-IN.



REVISIONS:	
1.	
2.	
3.	
4.	

PROJECT TITLE

WASH-RITE Express Car Wash
Mt Dechantal Rd at Hunter Ave, Wheeling, WV 26003
Gary A. Nash
ARCHITECT

SHEET TITLE

SITE PLAN - ELECTRICAL

COMMISSION NUMBER:

4044.02

DATE:

17 SEPT 2025

SHEET NUMBER:

E1.1
XX of XX

SITE PLAN
ELECTRICAL
SCALE 1/16"=10'



SEE CIVIL DWGs
by OTHERS for FINAL
SITE LAYOUT,
UTILITIES & DETAILS



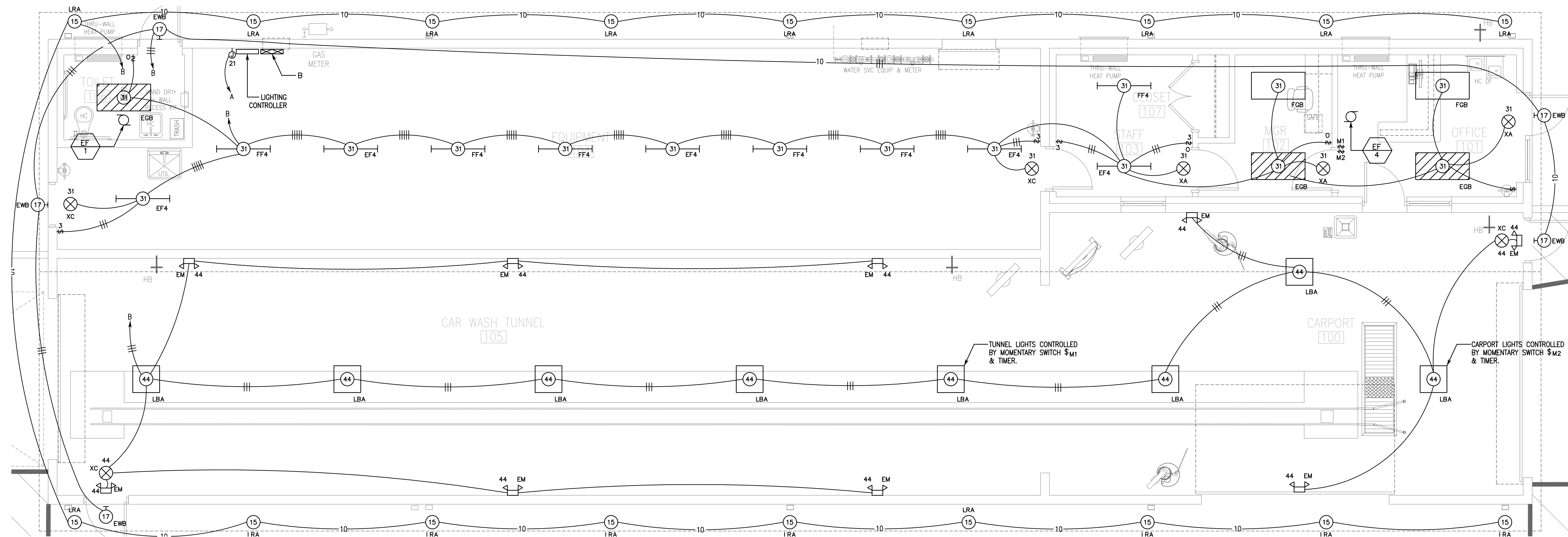
Hyde Engineering
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ENGINEER

LIZ HYDE

PROJECT #

25231.0



FLOOR PLAN
LIGHTING
SCALE 1/4"=10'

PROJECT
NORTH

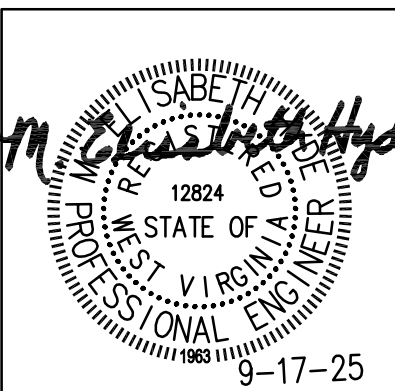
- NOTES:
- SEE ARCHITECTURAL RCP FOR EXACT PLACEMENT OF FIXTURES AND ELEVATIONS FOR MOUNTING HEIGHTS.
 - PROVIDE UNSWITCHED POWER FOR EMERGENCY BALLASTS.
 - SEE LIGHTING CONTROL DETAIL FOR MORE INFORMATION.
 - PROVIDE NEUTRALS AT ALL SWITCH LOCATIONS.
 - CIRCUIT EXTERIOR LIGHTING THRU CONTROLLER.



Hyde Engineering
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ENGINEER
LIZ HYDE

PROJECT #
25231.0



REVISIONS:
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WASH-RITE Express Car Wash
Mt Dechantal Rd at Hunter Ave, Wheeling, WV 26003

Gary A. Nash
ARCHITECT

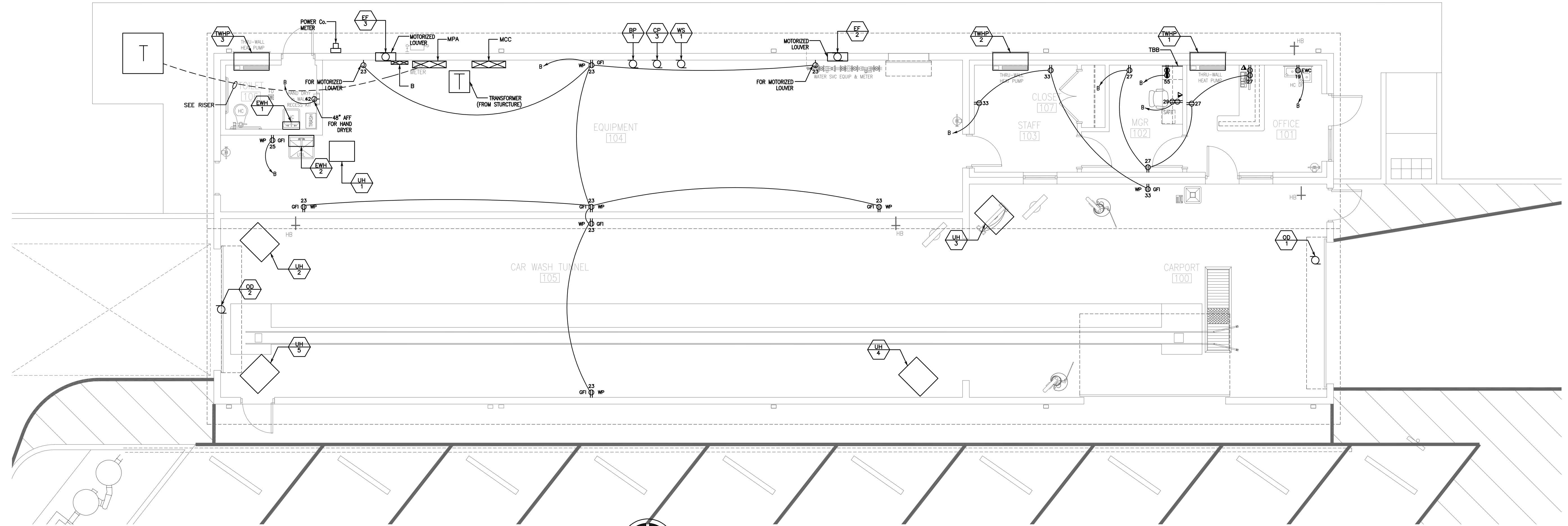
PROJECT TITLE:

SHEET TITLE:
FLOOR PLAN -
LIGHTING

COMMISSION NUMBER: 4044.02
DATE: 17 SEPT 2025

DRAWN BY:
CHECKED BY:

SHEET NUMBER:
E2.1
XX of XX



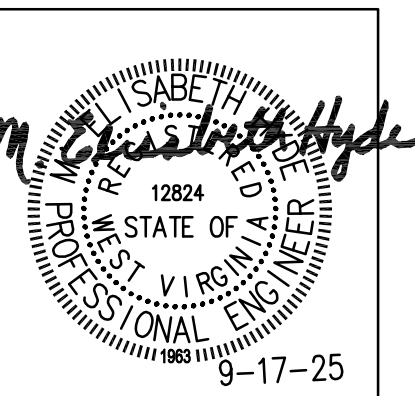
FLOOR PLAN
POWER AND AUXILIARY
SCALE 3/16"=1'-0"



- NOTES:
1. SEE VENDOR DRAWINGS FOR MORE INFORMATION.
 2. SEE EQUIPMENT SCHEDULES FOR MORE INFORMATION.
 3. SEE ARCHITECTURAL ELEVATIONS FOR ADDITIONAL INFORMATION.

SEE CARWASH VENDOR DRAWINGS
FOR ADDITIONAL REQUIREMENTS.

	Hyde Engineering 3120 8TH AVENUE SOUTH BIRMINGHAM, ALABAMA 35233 (P) 205 982-0900 (F) 205 982-9911 E-MAIL: LIZ@HYDE-EGR.COM
	ENGINEER LIZ HYDE
PROJECT # 25231.0	



REVISIONS:
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WASH-RITE Express Car Wash Mt Dechantal Rd at Hunter Ave, Wheeling, WV 26003 Gary A. Nash ARCHITECT	120 23rd STREET South (205) 322-7482 Suite 110 Birmingham, AL U.S.A. 35233
	PROJECT TITLE: SHEET TITLE: FLOOR PLAN - POWER & AUXILIARY --- --- --- --- ---

COMMISSION NUMBER:	DATE:
4044.02	17 SEPT 2025
DRAWN BY:	CHECKED BY:

SHEET NUMBER: E2.2 XX of XX
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