

Love's

Travel Stop & Country Stores

LIGHT MECHANICAL
SERVICES ADDITION

STORE #336
18720 PARTELLO RD.
MARSHALL, MI 49068

GENERAL SCOPE OF WORK

- + REMODEL/EXPANSION:
- REMODEL LOBBY AREA UNDER MEZZANINE
- MEZZANINE ADDITION
- ENCLOSE EXISTING SERVICE BAY
- TWO BAY ADDITIONS

PROJECT DIRECTORY

OWNER:
LOVES
16601 N. PENNSYLVANIA AVE.
OKLAHOMA CITY, OK 73120
ATTN: MIKE SMEAD

MEP ENGINEER:
HARRISON FRENCH & ASSOC., LTD
1705 S WALTON BLVD, SUITE 3
BENTONVILLE, AR 72712

CIVIL ENGINEER:
HARRISON FRENCH & ASSOC., LTD
1705 S WALTON BLVD, SUITE 3
BENTONVILLE, AR 72712

ARCHITECT:
HARRISON FRENCH & ASSOC., LTD
1705 S WALTON BLVD, SUITE 3
BENTONVILLE, AR 72712

STRUCTURAL ENGINEER:
HARRISON FRENCH & ASSOC., LTD
1705 S WALTON BLVD, SUITE 3
BENTONVILLE, AR 72712

NOTE:
CONTACT THE CONSTRUCTION PROJECT MANAGER FOR ALL RFIS, QUESTIONS REGARDING BIDDING, OR FOR A LIST OF GENERAL CONTRACTORS.

PROJECT DATA

BUILDING CODE: 2015 MICHIGAN BUILDING CODES WITH AMMENDMENTS (2015 IBC)
MECHANICAL CODE: 2015 MICHIGAN MECHANICAL CODES WITH AMMENDMENTS (2015 IMC)
PLUMBING CODE: 2015 MICHIGAN PLUMBING CODES WITH AMMENDMENTS (2015 IPC)
ELECTRICAL CODE: 2017 NATIONAL ELECTRICAL CODE
FIRE CODE: 2015 INTERNATIONAL FIRE CODE
ENERGY CODE: 2015 IECC MICHIGAN ENERGY CODES WITH AMMENDMENTS
ACCESSIBILITY CODE: 2009 ANSI 117.1 WITH AMMENDMENTS

BUILDING OCCUPANCY: S-1
CONSTRUCTION TYPE: V-B; UN-SPRINKLED

DISCLAIMER: EXISTING CONDITIONS SHOWN ARE BASED ON DRAWING AND/OR INFORMATION PROVIDED BY THE OWNER'S REPRESENTATIVE. THE ARCHITECT AND ENGINEERS HAVE NOT FIELD VERIFIED THIS INFORMATION AND ASSUME NO RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS OF THIS INFORMATION. THE GENERAL CONTRACTOR SHALL NOTIFY BOTH THE ARCHITECT AND THE OWNER'S REPRESENTATIVE IMMEDIATELY IF THE EXISTING CONDITIONS ARE NOT AS SHOWN WITHIN THE CONSTRUCTION DOCUMENTS.

LEGEND

(X) DOOR NUMBER	X/AX.X SHEET LOCATION
ROOM NAME / ROOM NUMBER	(X) DETAIL MARK
(000) ROOM NUMBER	(X) SHEET LOCATION
(X) WINDOW NUMBER	XX-XX' HEIGHT REFERENCE POINT
(XX.X) INTERIOR FINISH NUMBER	(X) SIGN TYPE
(X) EQUIPMENT NUMBER	(X) PARTITION TYPE - STUD WIDTH
(XXX) OIL EQUIPMENT NUMBER	(X) (X) = 3 5/8" (6) = 6"

BUILDING AREA

EXISTING BUILDING AREA:	
REMODELED SERVICE BAY:	1,200 SQ FT
EXISTING TIRE SHOP:	1,200 SQ FT
EXISTING USED TIRE STORAGE:	200 SQ FT
TOTAL:	2,600 SQ FT
NEW BUILDING AREA:	
NEW SERVICE BAYS:	3,240 SQ FT
NEW MEZZANINE:	361 SQ FT
TOTAL:	3,601 SQ FT
TOTAL AREA:	6,201 SQ FT
TOTAL ALLOWABLE SQUARE FOOTAGE:	9,000 SQ FT

ABBREVIATION LEGEND

NOTE: THIS IS A GENERAL ABBREVIATION LIST AND NOT ALL ABBREVIATIONS MAY APPEAR IN PLANS

ABBR	DEFINITION	ME	MASONRY ELEVATION
AB	ANCHOR BOLT	MECH	MECHANICAL
ACOST	ACOUSTIC	MFR	MANUFACTURER
ADA	AMERICANS WITH DISABILITIES ACT	MIN	MINIMUM
ADJ	ADJACENT	MISC	MISCELLANEOUS
AFF	ABOVE FINISHED FLOOR	MTL	METAL
AFG	ABOVE FINISHED GRADE	NTS	NOT TO SCALE
ALUM	ALUMINUM	OC	ON CENTER
ALT	ALTERNATE	OH	OPPOSITE HAND
ANC	ANCHORS	OHD	OVERHEAD DOOR
ARCH	ARCHITECTURAL	OP	OPERABLE PANEL
AT	ACOUSTICAL TILE	OP/CI	OWNER PROVIDED / CONTRACTOR INSTALL
BD	BOARD	OPIOI	OWNER PROVIDED / OWNER INSTALL
BOS	BOTTOM OF STEEL	P. LAM	PLASTIC LAMINATE
BRG	BEARING	PT	PAINT
CL	CENTERLINE	PVC	POLYVINYL CHLORIDE
CLR	CLEAR	QTY	QUANTITY
CMU	CONCRETE MASONRY UNIT	REF	REFER TO
COL	COLUMN	REQD	REQUIRED
CONC	CONCRETE	SC	SOLID CORE
CONST	CONSTRUCTION	SIM	SIMILAR
CONT	CONTINUOUS	SPECS	SPECIFICATIONS
CT	CERAMIC TILE	STD	STANDARD
DIA	DIAMETER	STRUÇ	STRUCTURAL
EF	EXHAUST FAN	SUSP	SUSPENDED
EL	ELEVATION	TEMP	TEMPERED
ELEC	ELECTRICAL	THK	THICKNESS
EQ	EQUAL	TO	TOP OF
ETR	EXISTING TO REMAIN	TOC/TC	TOP OF CONCRETE
FF	FINISHED FLOOR	TOG	TOP OF GRADE BEAM
FRP	FIBERGLASS REINFORCED PLASTIC	TOM	TOP OF MASONRY
FTG	FOOTING	TOP/TP	TOP OF PAVING
FV	FIELD VERIFY	TOS	TOP OF STEEL
GC	GENERAL CONTRACTOR	TYP	TYPICAL
H	HEIGHT	UNO	UNLESS NOTED OTHERWISE
HC	HANDICAP	VF	VERIFY IN FIELD
HM	HOLLOW METAL	W	WIDTH
HWT	HOT WATER TANK	WWF	WELDED WIRE FABRIC
INFO	INFORMATION		
L	LENGTH		
MAX	MAXIMUM		

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YLS1	LIFE SAFETY PLAN
YSP1	OVERALL SITE PLAN
YSP2	ENLARGED SITE PLAN & DETAILS
YD1	DEMOLITION PLAN
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YA1.1	FINISH LEGEND, ROOM FINISH SCHEDULE, & ENLARGED PLAN
YA2	EXTERIOR ELEVATIONS
YA3	WALL SECTIONS & DETAILS
YA4	LUBE PIT SECTIONS & DETAILS
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YA5.2	SECTIONS, DETAILS & INTERIOR ELEVATIONS
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YM3.2	OIL/WATER SEPARATOR DETAILS

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CIVIL	
YCV2	GRADING PLAN
YCV2.1	UTILITY PLAN
YCV3	DETAIL SHEET

RESPONSIBILITY SCHEDULE

WORK SCHEDULE	FURNISHED BY		INSTALLED BY
	GC	O = OWNER	
GENERAL	GC	O	GC
DEMOLITION	X		
CONC. SLAB / CUT / PATCH	X		X
PAVING	X		X
BOLLARDS	X		X
DOOR HARDWARE	X		X
HOLLOW METAL DOORS	X		X
PAINT	X		X
STRUCTURAL STEEL	X		X
INSULATION	X		X
WALL PANELS	X		X
ROOF PANELS	X		X
TRIM	X		X
PLYWOOD	X		X
METAL STUDS	X		X
SIGNAGE		X	X
MEZZANINE STAIRS (INTERIOR)	X		X
HANDRAILS/ GUARDRAILS	X		X
PEGBOARD	X		X
CHAINLINK FENCING AND GATE	X		X
OVERHEAD DOORS	X		X

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MARSHALL, MI 49068

JOB NUMBER: 03-21-20336

ISSUE BLOCK

1	07/09/21	ADD 1

CHECKED BY: RAF
DRAWN BY: JDH
DOCUMENT DATE: 05/05/21

STATE OF MICHIGAN
JAMES EDWARD MANN
ARCHITECT
No. 1301066921
LICENSED ARCHITECT

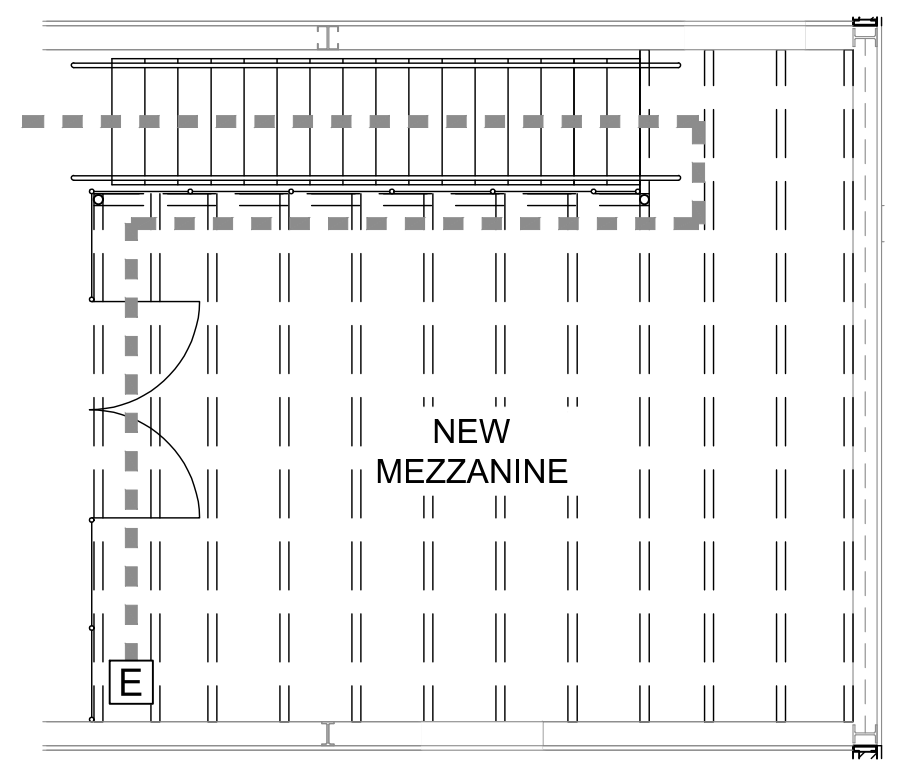
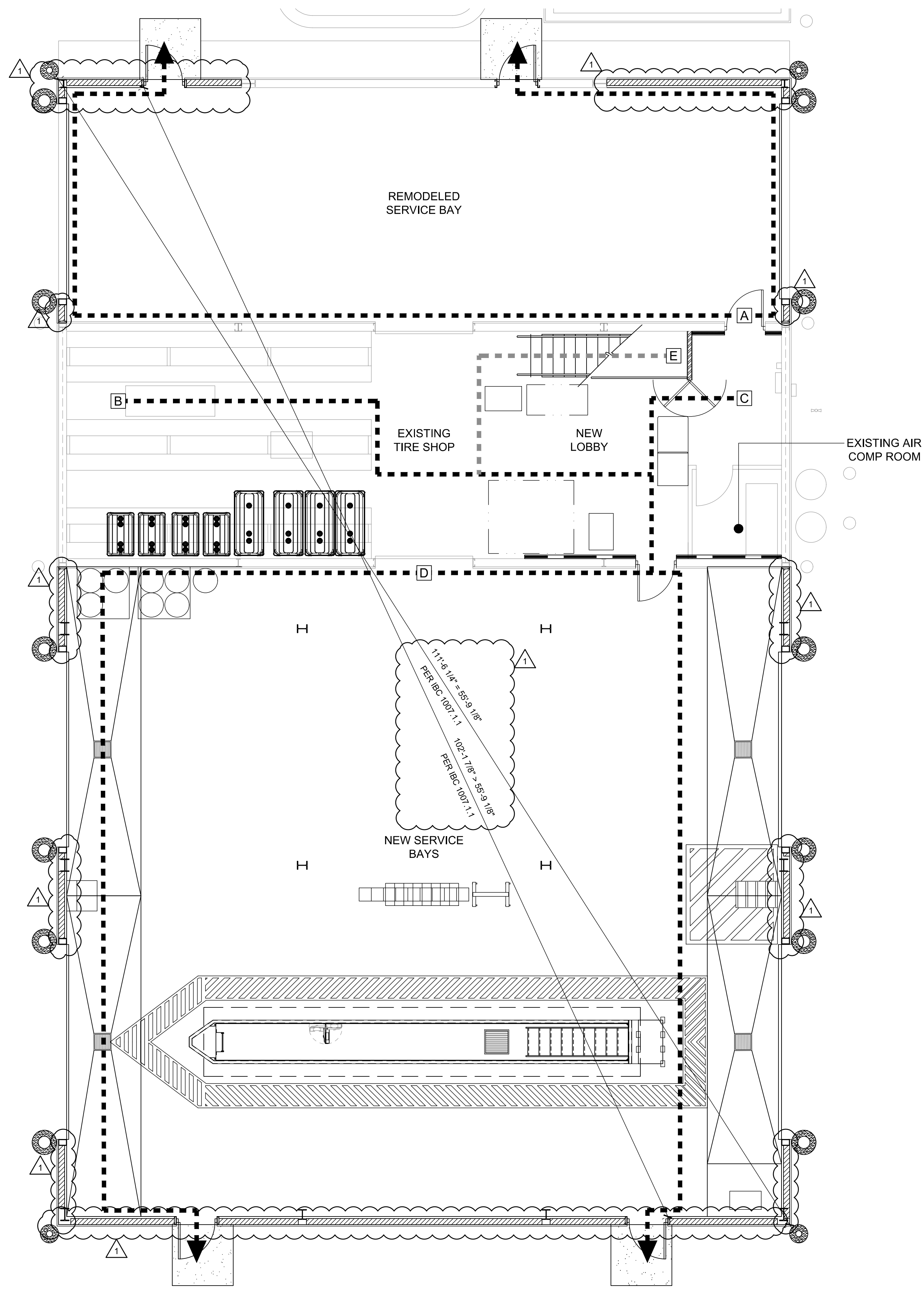
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COVER SHEET & INDEX

SHEET: YC1

Aug 12, 2021 1:34 pm - User: lauren.bennett
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Aug 12, 2021, 3:15pm - User: James Bennett
 E:\030623-20336-Loves-Marshall_MI_33605-CD0000-Architectural\104 YLS1 LIFE SAFETY PLAN.dwg



2 MEZZANINE EGRESS PLAN
SCALE: 3/16" = 1'-0"
NORTH

1 LIFE SAFETY PLAN
SCALE: 3/16" = 1'-0"
NORTH

LEGEND

36" PATH OF TRAVEL
 36" WIDE PATH OF TRAVEL FROM MEZZANINE

Egress Area & Occupant Load Calculations		
Area A	Occupant Load Calculation Per IBC 1004.5 Table:	
	Remodeled Service Bay = 1,200 SF @ 300 SF GROSS =	4 Occupants
	Total Occupant Load For Area (A)=	4 Occupants
	Egress Width Required Per IBC 1005.3:	
	0.2 Inches Per Occupant @ 4 Occupants =	0.8 Inches
Total Inches Req'd For Area (A)=	0.8 Inches Required	
Area B	Occupant Load Calculation Per IBC 1004.5 Table:	
	Existing Tire Shop = 767 SF @ 300 SF GROSS =	3 Occupants
	Total Occupant Load For Area (B)=	3 Occupants
	Egress Width Required Per IBC 1005.3:	
	0.2 Inches Per Occupant @ 3 Occupants =	0.6 Inches
Total Inches Req'd For Area (B)=	0.6 Inches Required	
Area C	Occupant Load Calculation Per IBC 1004.5 Table:	
	New Lobby = 433 SF @ 300 SF GROSS =	1 Occupants
	Total Occupant Load For Area (C)=	1 Occupants
	Egress Width Required Per IBC 1005.3:	
	0.2 Inches Per Occupant @ 1 Occupants =	0.2 Inches
Total Inches Req'd For Area (C)=	0.2 Inches Required	
Area D	Occupant Load Calculation Per IBC 1004.5 Table:	
	New Service Bays = 3,240 SF @ 300 SF GROSS =	11 Occupants
	Total Occupant Load For Area (D)=	11 Occupants
	Egress Width Required Per IBC 1005.3:	
	0.2 Inches Per Occupant @ 11 Occupants =	2.2 Inches
Total Inches Req'd For Area (D)=	2.2 Inches Required	
Area E	Occupant Load Calculation Per IBC 1004.5 Table:	
	New Mezzanine = 361 SF @ 300 SF GROSS =	2 Occupants
	Total Occupant Load For Area (E)=	2 Occupants
	Egress Width Required Per IBC 1005.3:	
	0.2 Inches Per Occupant @ 2 Occupants =	0.4 Inches
Total Inches Req'd For Area (E)=	0.4 Inches Required	

Egress Path	
Exit Path	Exit Travel Distance
A	83' - 0"
B	117' - 7"
C	81' - 9"
D	89' - 9"
E	143' - 0"

- DISTANCE OF TRAVEL - TABLE 1017.2 IBC = 200'-0" MAX
- ALL EXISTING EGRESS PATHS, FIRE RATING, EMERGENCY LIGHTING AND SIGNS, FIRE EXTINGUISHERS, AND PLUMBING FIXTURES ARE TO REMAIN UNTOUCHED.
 - ALL EGRESS DOORS SHALL BE READILY OPENABLE WITH LEVER STYLE HANDLE FROM THE EGRESS SIDE WITHOUT USE OF A KEY OR SPECIAL KNOWLEDGE.

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 DOCUMENT DATE: 05/05/21

STATE OF MICHIGAN
 JAMES EDWARD MANN
 ARCHITECT
 No. 1301066921
 LICENSED ARCHITECT

James Mann
 2021.08.12 16:44:08-05'00"

LIFE SAFETY PLAN

SHEET: **YLS1**

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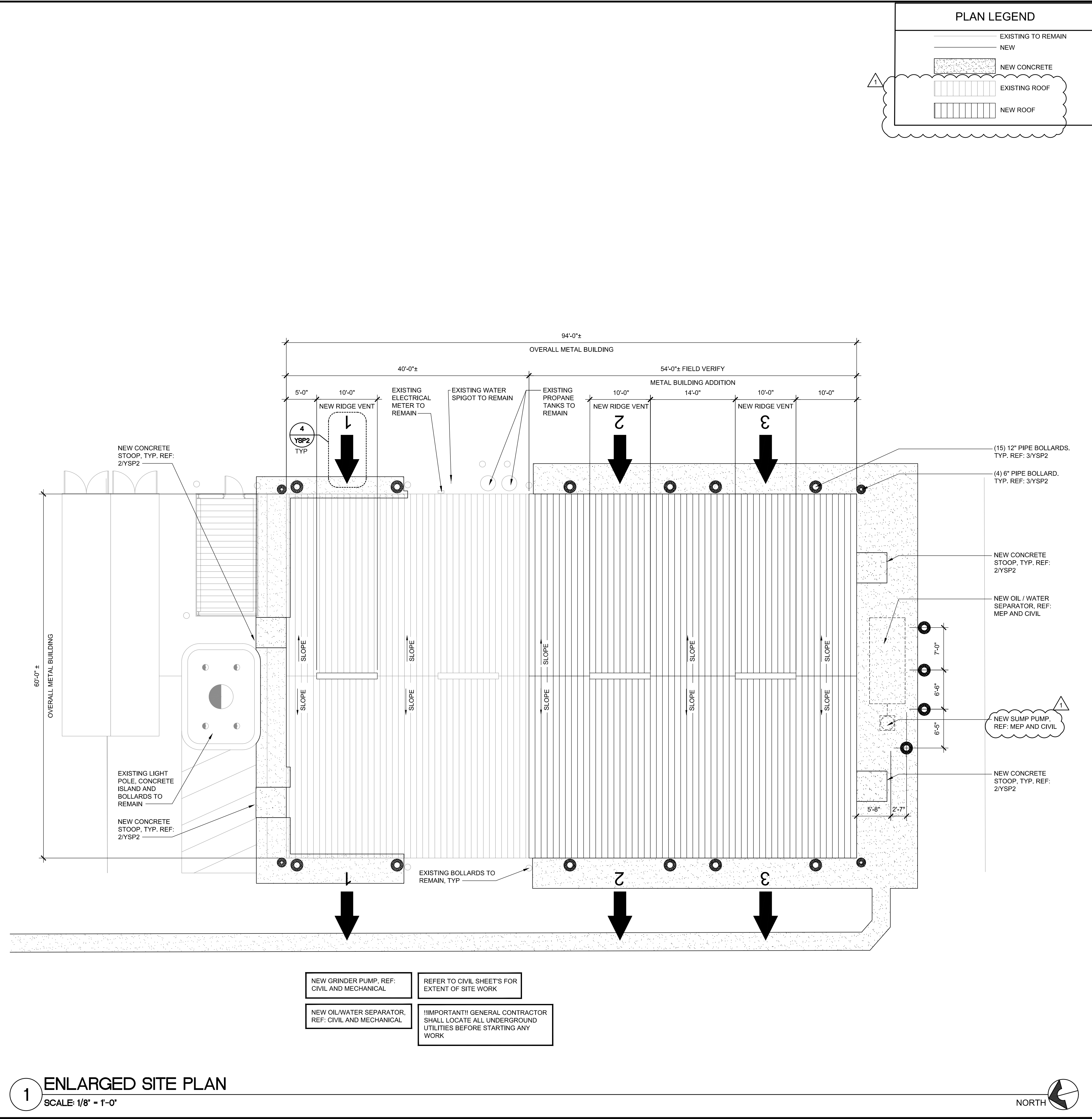
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 DOCUMENT DATE: 05/05/21

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 JAMES EDWARD MANN
 ARCHITECT
 No. 1301066921
 LICENSED ARCHITECT
James E. Mann
 2021.08.12 16:45:06-05'00"

ENLARGED SITE PLAN & DETAILS
 SHEET: **YSP2**

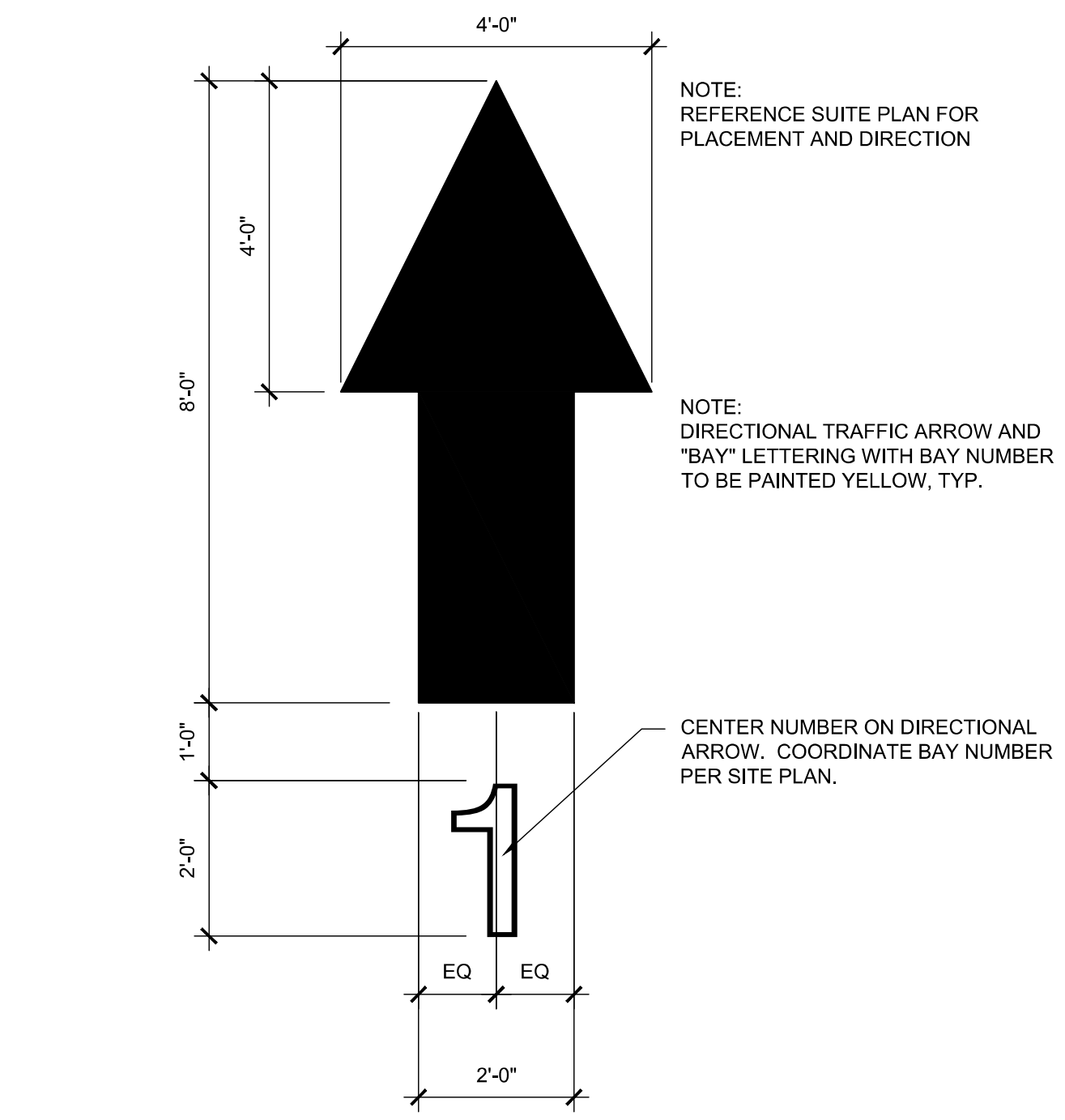
PLAN LEGEND

- EXISTING TO REMAIN
- NEW
- NEW CONCRETE
- EXISTING ROOF
- NEW ROOF

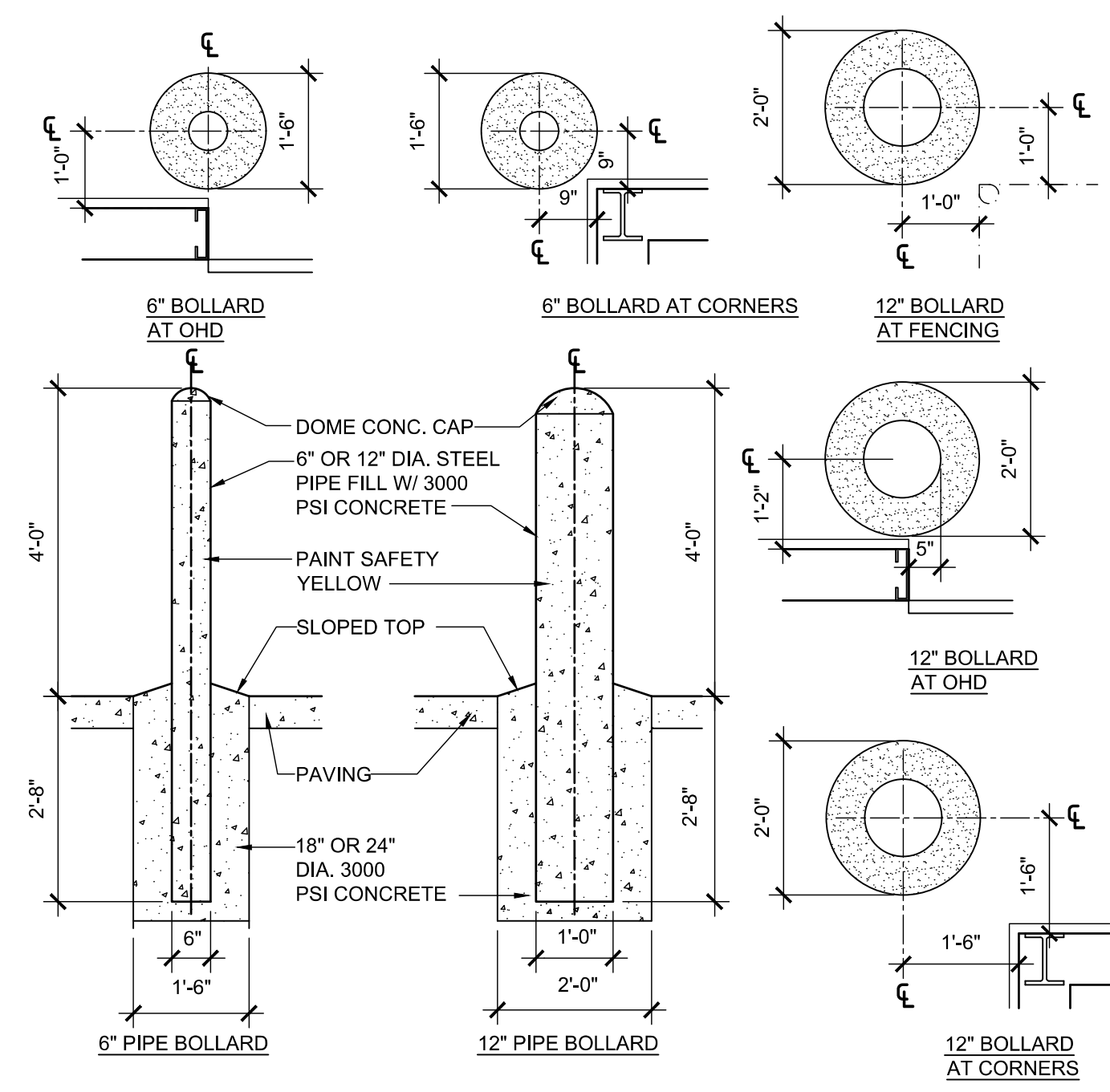


1 ENLARGED SITE PLAN
 SCALE: 1/8" = 1'-0"

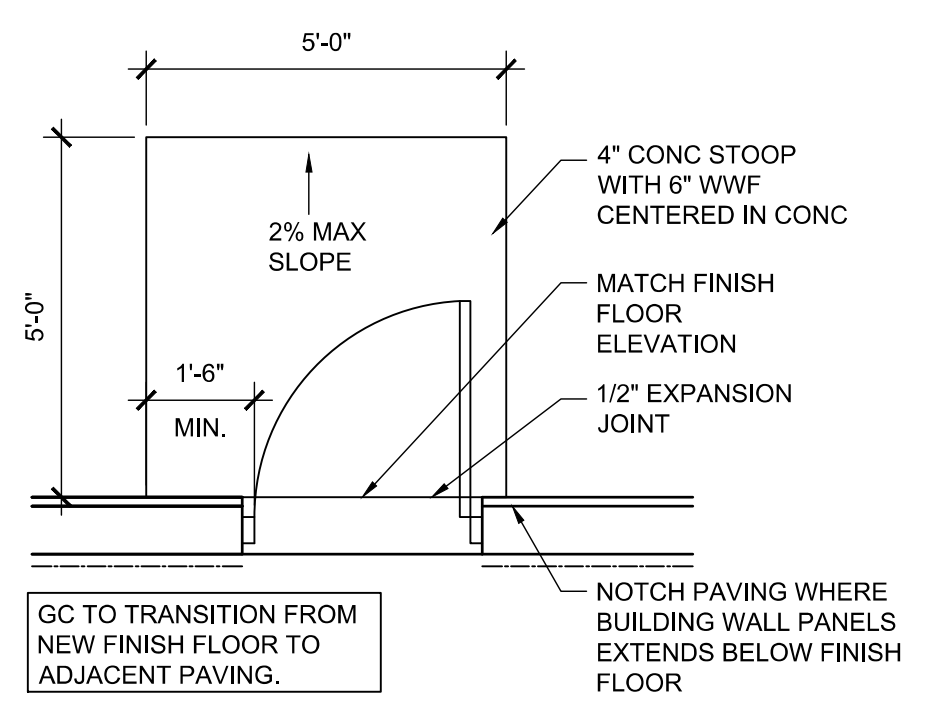
NEW GRINDER PUMP, REF: CIVIL AND MECHANICAL
 REFER TO CIVIL SHEET'S FOR EXTENT OF SITE WORK
 NEW OIL/WATER SEPARATOR, REF: CIVIL AND MECHANICAL
 !!IMPORTANT!! GENERAL CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES BEFORE STARTING ANY WORK



4 PAINTED BAY ARROW
 SCALE: 1/2" = 1'-0"



3 BOLLARD DETAILS
 SCALE: 1/2" = 1'-0"



2 STOOP DETAIL
 SCALE: 3/8" = 1'-0"

Aug 12, 2021, 3:15pm - User: James Bennett
 E:\3036\21-20336-Lines - Marshall, MI\33606-CD\0000-Architectural\111-YSP2-ENLARGED SITE PLAN AND DETAILS.rvt

DEMOLITION NOTES

- ALL DEMOLITION SHALL BE CARRIED OUT IN A SAFE MANNER, AND IN ACCORDANCE WITH OSHA REGULATIONS.
- THE CONTRACTOR SHALL FIELD VERIFY THE EXTENT OF DEMOLITION. THE WORK INCLUDES, BUT IS NOT LIMITED TO, THE DEMOLITION AND REMOVAL OF PAVING AND FLATWORK, WALLS, PARTITIONS, DOORS, PLUMBING, MECHANICAL AND ELECTRICAL ITEMS INCLUDING CONDUITS AS SHOWN ON THE DRAWINGS OR AS REQUIRED FOR THE INSTALLATION OF THE NEW WORK FOR A COMPLETE JOB.
- WHEN REMOVING EXISTING STRUCTURAL ITEMS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SHORING, BRACING AND SUPPORT SYSTEMS TO KEEP THE EXISTING STRUCTURE INTACT AND IN A SAFE CONDITION.
- PRIOR TO EXCAVATION FOR FOUNDATIONS ADJACENT TO THE EXISTING STRUCTURE, PROVIDE ADEQUATE SUPPORT FOR THE SUB-BASE TO PREVENT UNDERMINING OF THE EXISTING FOUNDATION.
- SAWCUT AND REMOVE EXISTING EXTERIOR FLATWORK AND PAVING AS REQUIRED FOR NEW CONSTRUCTION. FIELD VERIFY EXTENTS OF DEMOLITION REQUIRED TO ENSURE POSITIVE DRAINAGE AWAY FROM THE BUILDING WHEN CONSTRUCTION IS COMPLETE. EXTENTS OF DEMOLITION SHOWN ON THE ARCHITECTURAL DRAWINGS ARE FOR GRAPHIC REPRESENTATION ONLY AND SHALL NOT BE ASSUMED TO DELINEATE ACTUAL LIMITS OF DEMOLITION REQUIRED.
- CONDUCT ALL DEMOLITION AND REMOVAL OF DEBRIS AS REQUIRED TO ENSURE MINIMUM INTERFERENCE WITH BUILDING/SITE FACILITIES AND OPERATIONS. REMOVE DEMOLISHED MATERIALS FROM SITE AND LEGALLY DISPOSE OF ALL DEBRIS.
- PROTECT EXISTING PAVING AND STRUCTURES TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
- NOTES INDICATING DEMOLITION WORK ARE NOT CONFINED SOLELY TO THE DEMOLITION PLANS. THE GENERAL CONTRACTOR SHALL REVIEW ALL CONSTRUCTION DOCUMENTS, INCLUSIVE OF SCHEDULES AND SPECIFICATIONS, TO DETERMINE FULL EXTENT OF DEMOLITION WORK.
- SAWCUT BOLLARD FLUSH WITH EXISTING PAVEMENT.
- REMOVE BOLLARD AND ITS FOOTING IN ITS ENTIRETY. BACK FILL AND COMPACT TO MATCH EXISTING PAVING.

PLAN LEGEND

- EXISTING TO REMAIN
- DEMOLITION
- RELOCATE
- PAVING DEMOLITION

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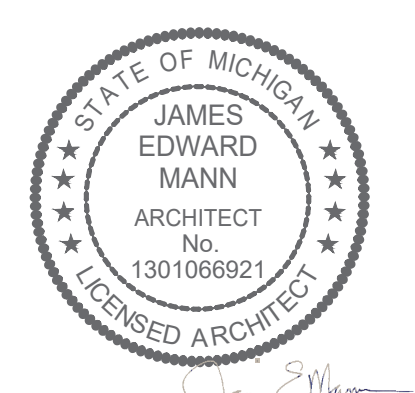
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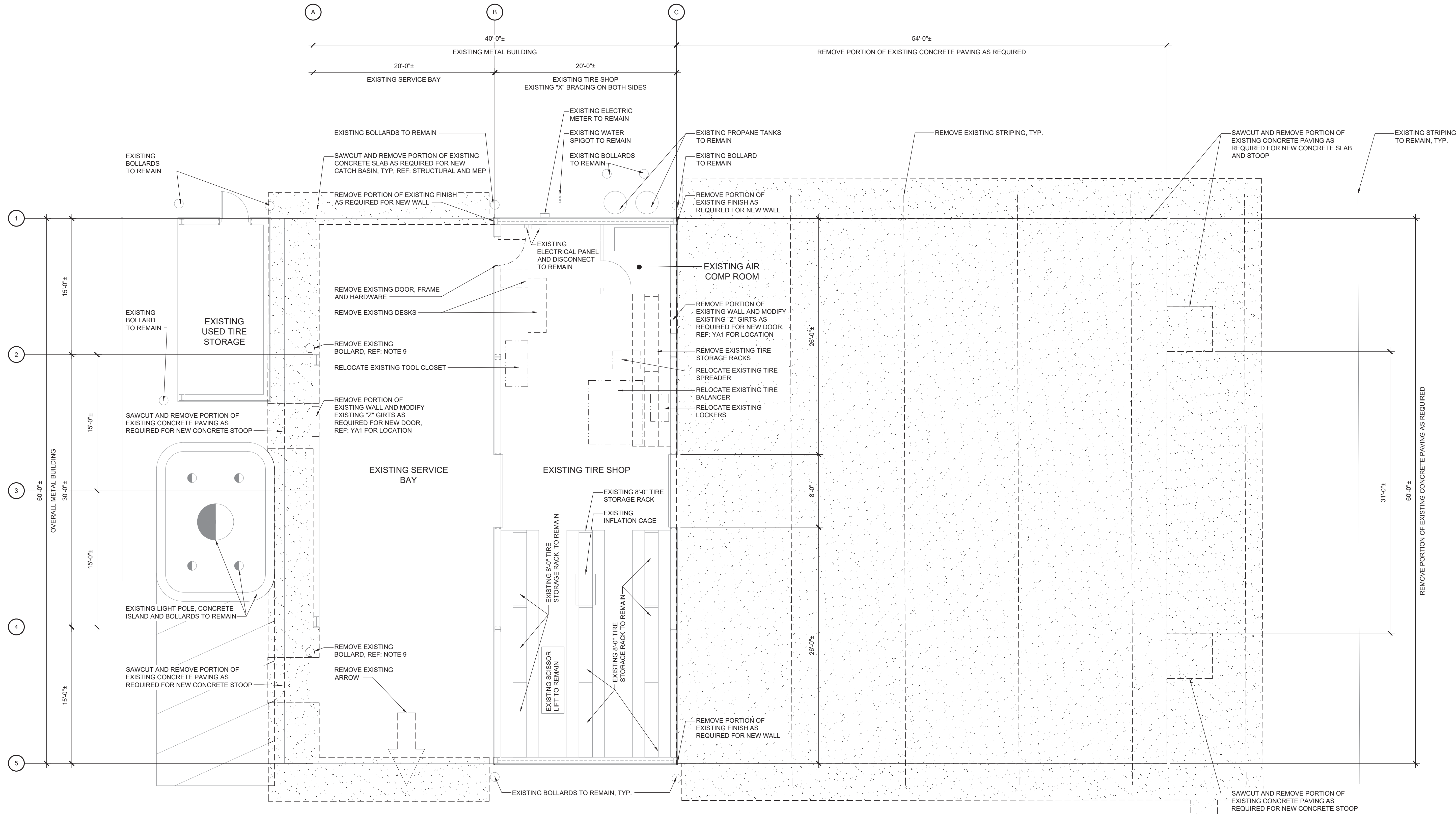
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DEMOLITION PLAN

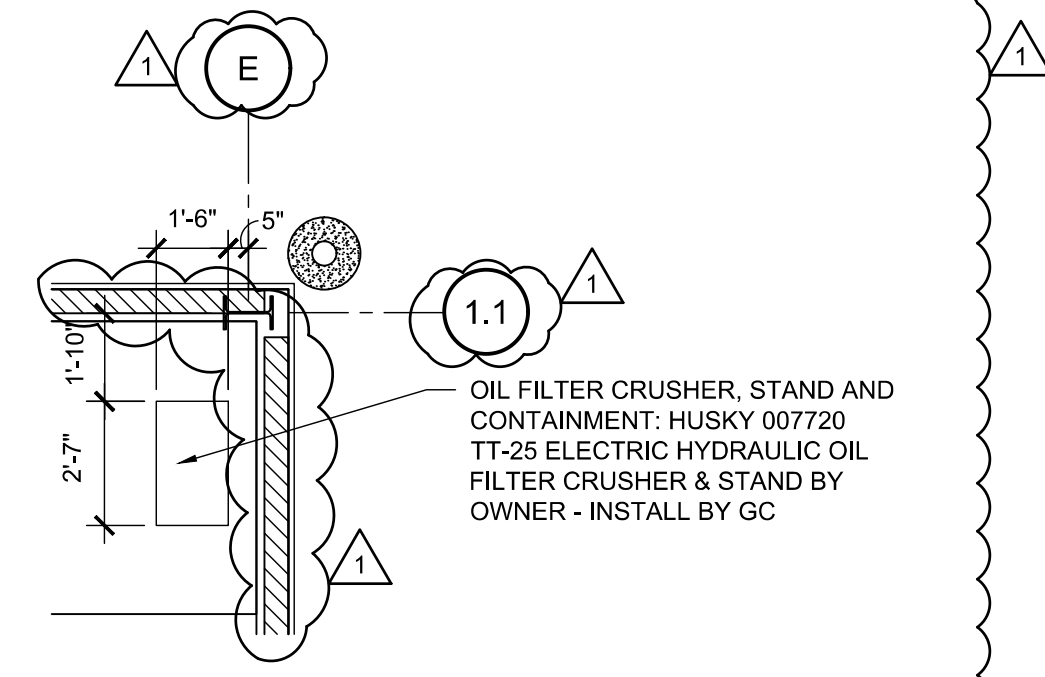
SHEET: YD1



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



May 12, 2021, 5:05pm - User: james.howard
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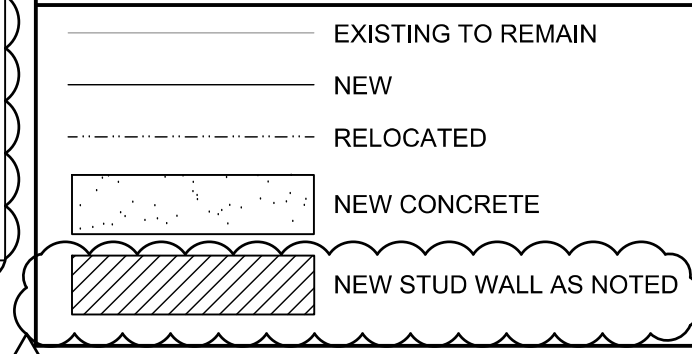


ENLARGED PLAN AT FILTER CRUSHER

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

- NOTES:**
- GC TO PROVIDE 2X10 BLOCKING BETWEEN STUDS AT 54" A.F.F. AT ALL NEW WALLS.
 - GC TO PROVIDE ALL FINISHED METAL TRIM, COLOR TO MATCH EXISTING.
 - GC TO PROVIDE AND INSTALL ALL NEW EXTERIOR METAL WALL/ ROOF PANELS, TRIM, AND RIDGE VENTS TO MATCH EXISTING BUILDING MATERIALS SIZE, PROFILES AND COLORS WITH READILY AVAILABLE MATERIALS TO THE BEST OF THEIR ABILITY. PROVIDE SPEC SHEET OF EACH TO LOVES PM AND AOR FOR REVIEW PRIOR TO ORDERING.
 - GC TO PROVIDE ALL INSULATION AS DETAILED.
 - G.C. SHALL PAINT ALL TRIM AND HOLLOW METAL DOORS PER DOOR SCHEDULE. BOLLARDS TO BE SAFETY YELLOW. REF: 3/YSP2.
 - FOR PARTITION TYPES REF: 8/YA6.
 - GC TO PROVIDE LINTELS AT ALL EXTERIOR WALL OPENINGS. REF STRUCTURAL.
 - PROVIDE CONCRETE SLOPED @ 2% MAX FOR OVERHEAD DOOR. EXTEND BEYOND TO MEET CONCRETE SLAB.
 - G.C. TO PROVIDE AND INSTALL: HOLLOW METAL DOORS, OVERHEAD DOORS & HARDWARE.
 - FIRE EXTINGUISHERS SHALL BE PROVIDED IN ACCORDANCE WITH ALL CURRENT APPLICABLE CODES.
 - ALL PLYWOOD SHALL MEET THE CLASS C FLAME SPREAD AND SMOKE-DEVELOPED RATING REQUIREMENTS PER ALL CURRENT APPLICABLE CODES.
 - ALL WALL DIMENSIONS TO FACE OF STUD UNLESS NOTED OTHERWISE.

PLAN LEGEND



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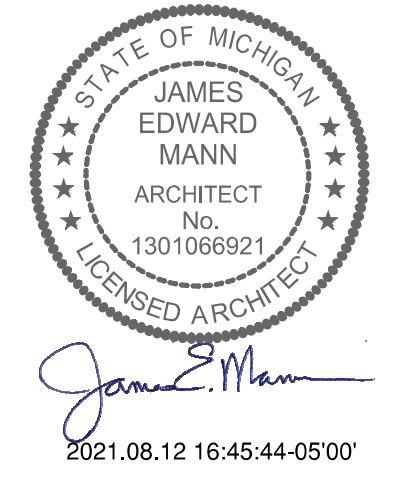
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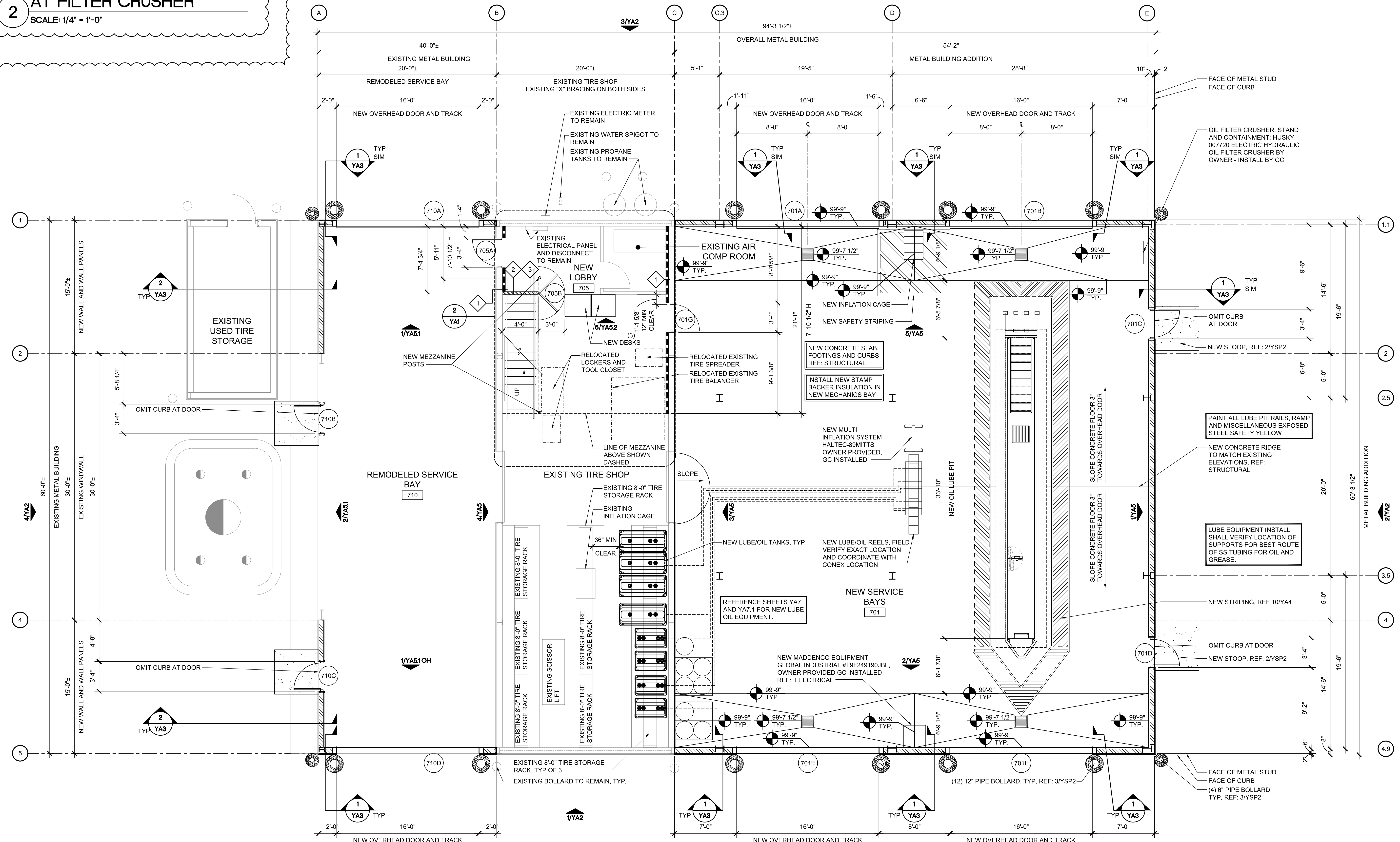
1	07/09/21	ADD 1

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DOCUMENT DATE: 05/05/21



OVERALL FLOOR PLAN

SHEET: **YA1**



Aug 12, 2024, 3:15pm - User: James Bennett
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ROOM FINISH SCHEDULE

MARK	DESCRIPTION	FLOOR FINISH	BASE FINISH	TYPICAL SUBSTRATE				FINISHES				CEILING FINISH	COMMENTS
				1	2	3	4	1	2	3	4		
701	NEW SERVICE BAYS	EXPOSED CONCRETE	---	3/4" PLYWOOD	3/4" PLYWOOD	3/4" PLYWOOD	ETR	PT-55	PT-55	PT-55	---	EXPOSED STRUCT.	REF: ELEVATIONS
705	NEW LOBBY	ETR	---	ETR	3/4" PLYWOOD	OPEN	3/4" PLYWOOD	PT-55	PT-55	PT-55	PT-55	EXPOSED STRUCT.	---
707	NEW MEZZANINE	EXPOSED PLYWOOD	---	PEGBOARD ON PLYWOOD	PEGBOARD ON PLYWOOD	CHAINLINK FENCE/ OPEN	PEGBOARD ON PLYWOOD	PT-55	PT-55	---	PT-55	EXPOSED STRUCT.	---
710	REMODELED SERVICE BAY	ETR	---	3/4" PLYWOOD	ETR	3/4" PLYWOOD	3/4" PLYWOOD	PT-55	---	PT-55	PT-55	EXPOSED STRUCT.	REF: ELEVATIONS

MATERIAL LEGEND - INTERIOR

MARK	DESCRIPTION	MODEL	COMMENTS
BS-1	RUBBER BASE	"ROPPE" BLACK	
LM-54	LAMINATE	"FORMICA" WENGE STRAND 3606-58 - RUN GRAIN HORIZONTAL	BY MILLWORK CONTRACTOR, RUN GRAIN HORIZONTAL FRONT FACES BLACK MELAMINE INTERIOR
SS-54	SOLID SURFACE	"CORIAN" COLOR: SILT	CUSTOMER SERVICE DESK TOP & NOSING, WINDOW SILLS
PT-53	PAINT	"SHERWIN WILLIAMS" SW 7038 TONY TAUPE - SATIN	
PT-55	PAINT	"SHERWIN WILLIAMS" SW 6990 CAVIAR - SATIN	

SHEET NOTE:
 1. INSTALL WATER RESISTANT FIRE RETARDANT TREATED 1X4 AT EVERY VERTICAL AND HORIZONTAL BUTT JOINT, TYPICAL FOR ALL PLYWOOD WALL FINISH.

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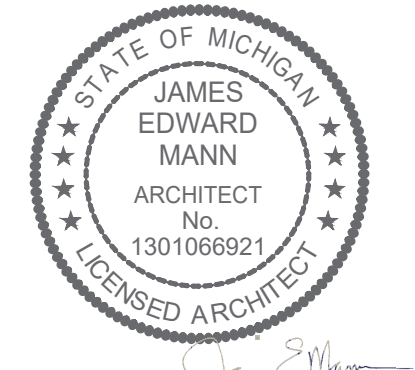
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STORE NUMBER: 336
 18720 PARTELLO RD
 MARSHALL, MI 49068

JOB NUMBER: 03-21-20336

ISSUE BLOCK

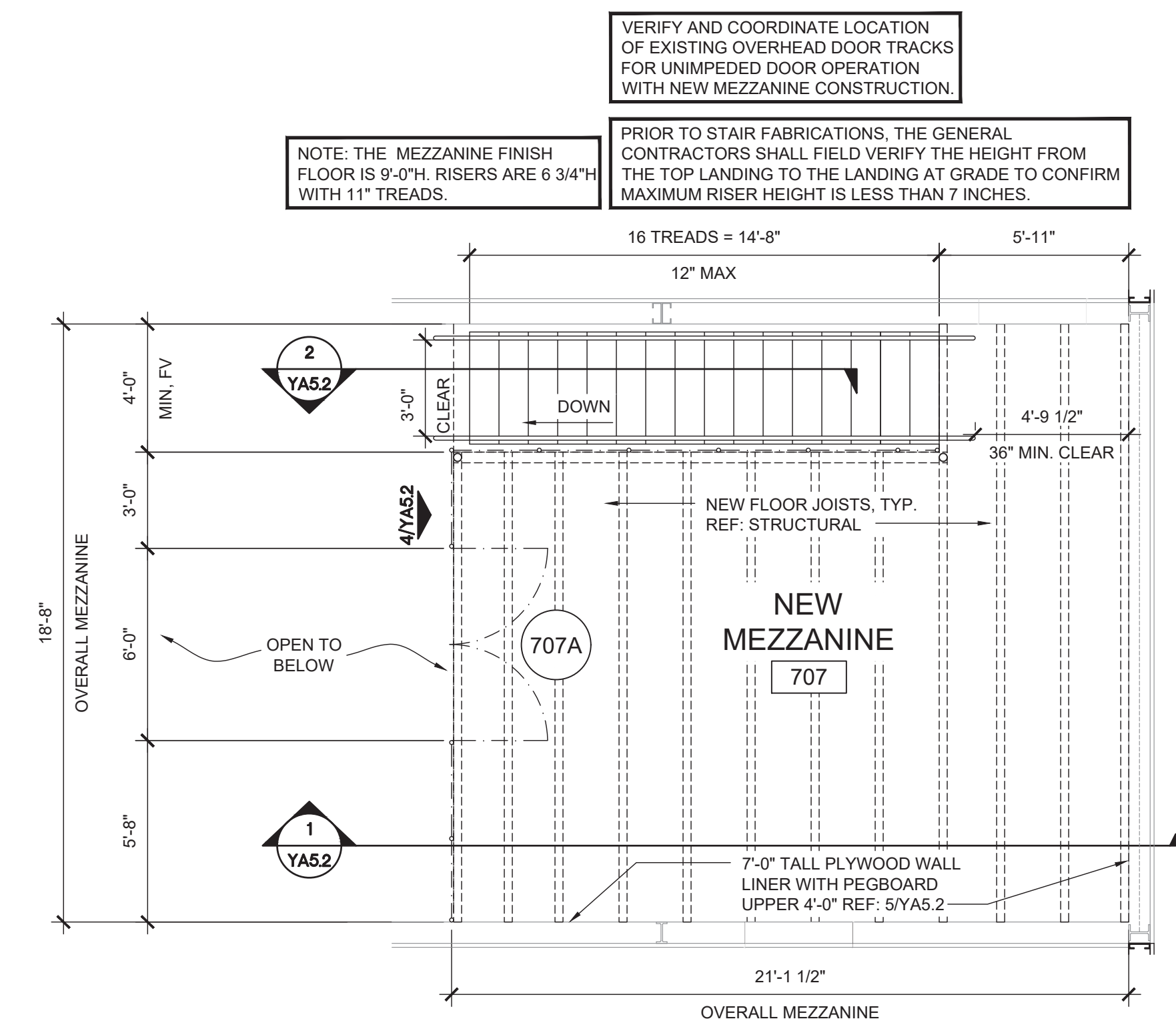
CHECKED BY: RAF
 DRAWN BY: JDH
 DOCUMENT DATE: 05/05/21



2021.05.12 20:30:27-05'00"

FINISH LEGEND, ROOM FINISH SCHEDULE, & ENLARGED PLAN

SHEET: YA1.1



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

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REMODEL

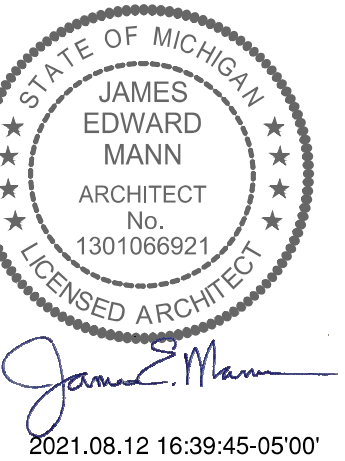
STORE NUMBER: 038
18720 PARTELLO RD
MARSHALL, MI 49068

JOB NUMBER: 03-21-20338

ISSUE BLOCK

NO.	DATE	DESCRIPTION
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CHECKED BY: RAF
DRAWN BY: JDH
DOCUMENT DATE: 05/05/21

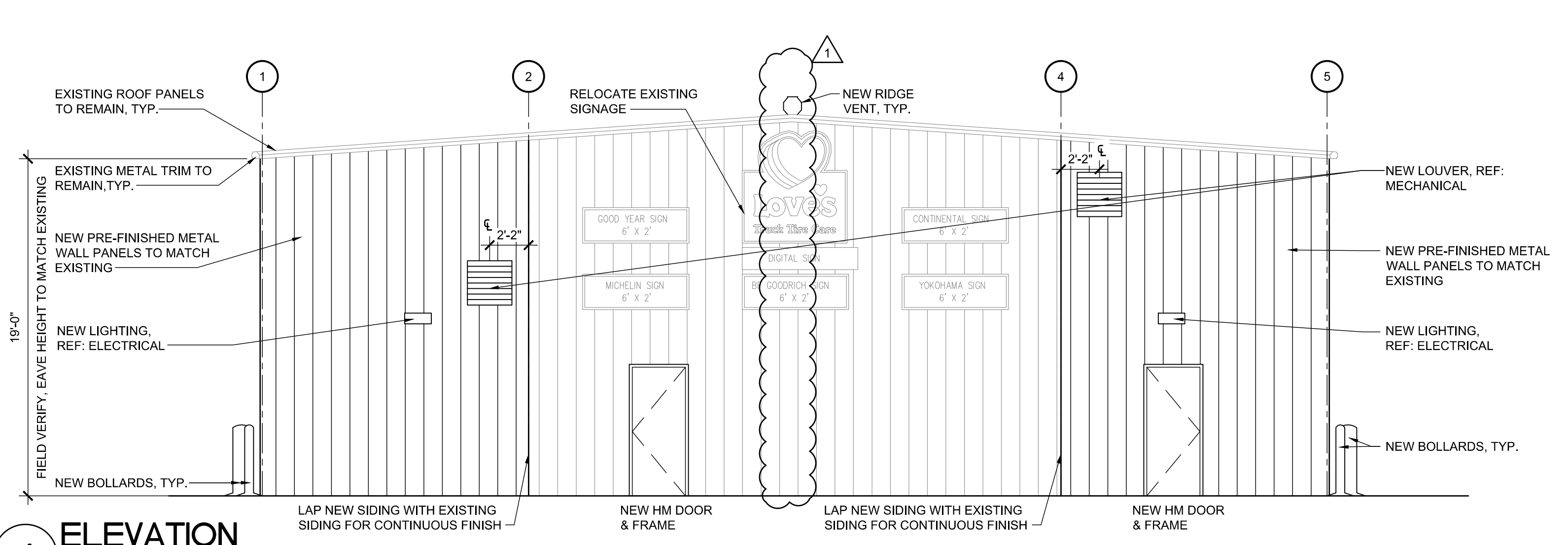


EXTERIOR ELEVATIONS

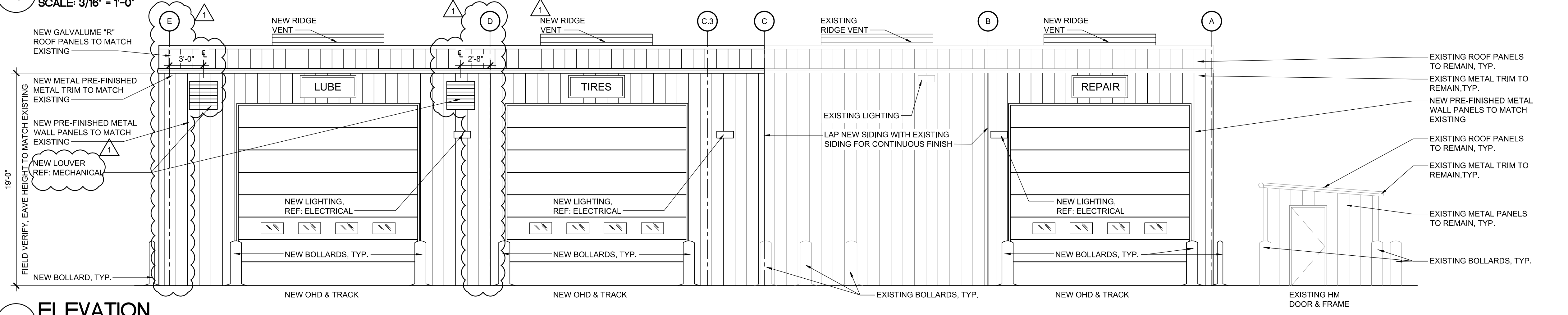
SHEET: **YA2**

GC TO PROVIDE AND INSTALL ALL NEW EXTERIOR METAL WALL ROOF PANELS, TRIM, AND RIDGE VENTS TO MATCH EXISTING BUILDING MATERIALS SIZE, PROFILES AND COLORS WITH READILY AVAILABLE MATERIALS TO THE BEST OF THEIR ABILITY. PROVIDE SPEC SHEET OF EACH TO LOVES PM AND AOR FOR REVIEW PRIOR TO ORDERING.

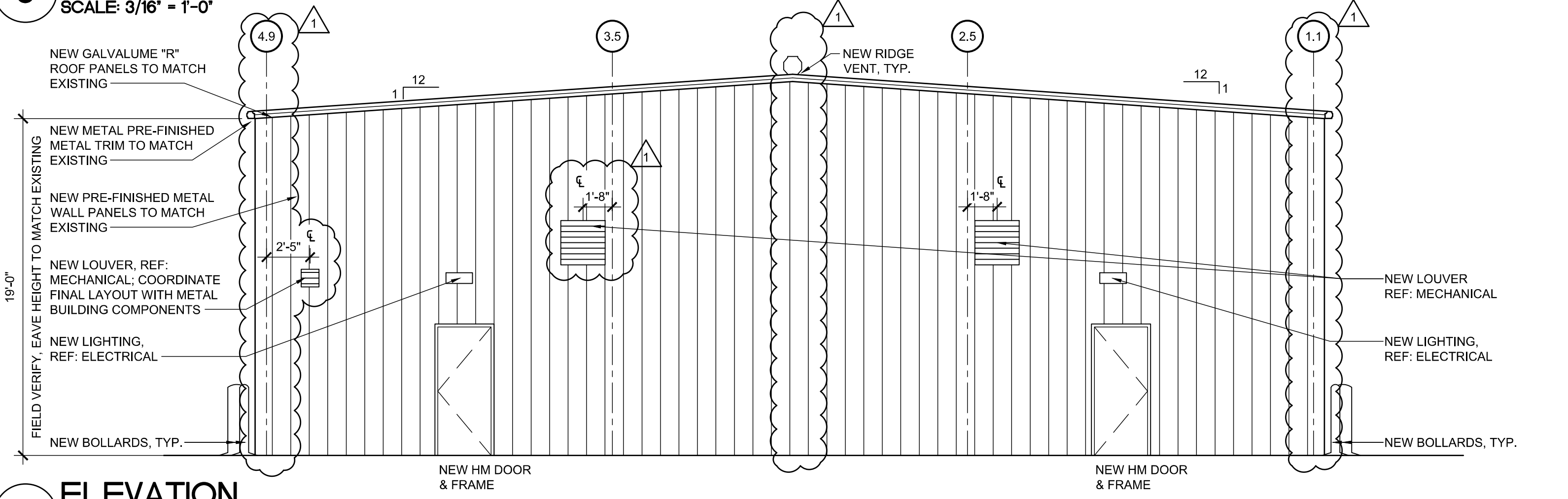
- SHEET NOTE:**
- EXISTING SIGNAGE TO REMAIN UNLESS NOTED OTHERWISE.
 - REFER TO ELECTRICAL SHEETS FOR WALL PACK LIGHTS AND LOCATIONS.
 - REFER TO MECHANICAL SHEETS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF EXHAUST FANS.
 - SEAL HOLES IN METAL BUILDING PANELS AS REQUIRED.



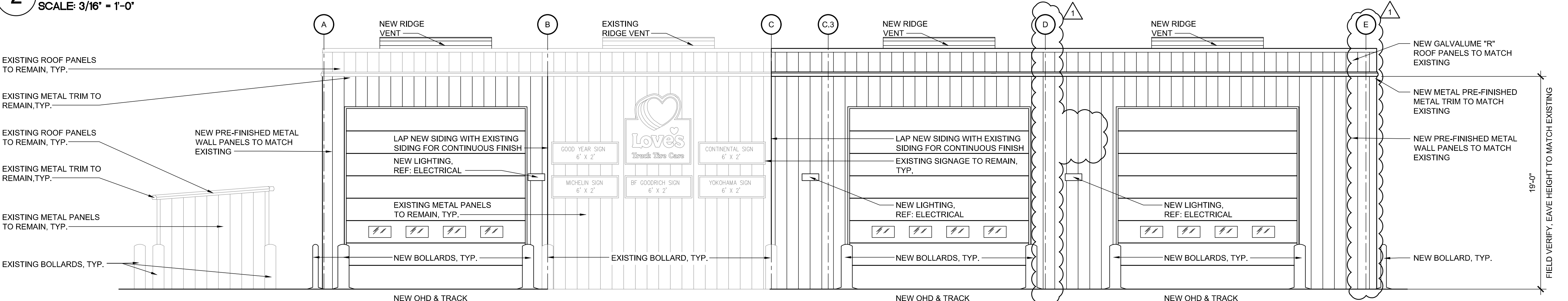
4 ELEVATION
SCALE: 3/16" = 1'-0"



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



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



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

Aug 12, 2021 1:31:06pm - User: lauren.bonnett
E:\030247-20338 Loves - Marshall, MI 3308-06-CD\0000 Architect\140 142 EXTERIOR ELEVATIONS.dwg

SHEET NOTE:
 1. INSTALL WATER RESISTANT 1X4 AT EVERY VERTICAL AND HORIZONTAL BUTT JOINT, TYPICAL FOR ALL PLYWOOD WALL FINISH.

G.C. TO PROVIDE AND INSTALL ALL NEW EXTERIOR METAL WALL/ ROOF PANELS, TRIM, AND RIDGE VENTS TO MATCH EXISTING BUILDING MATERIALS SIZE, PROFILES AND COLORS WITH READILY AVAILABLE MATERIALS TO THE BEST OF THEIR ABILITY. PROVIDE SPEC SHEET OF EACH TO LOVE'S PM AND AOR FOR REVIEW PRIOR TO ORDERING.

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JOB NUMBER: 03-21-20336

ISSUE BLOCK

NO.	DATE	DESCRIPTION
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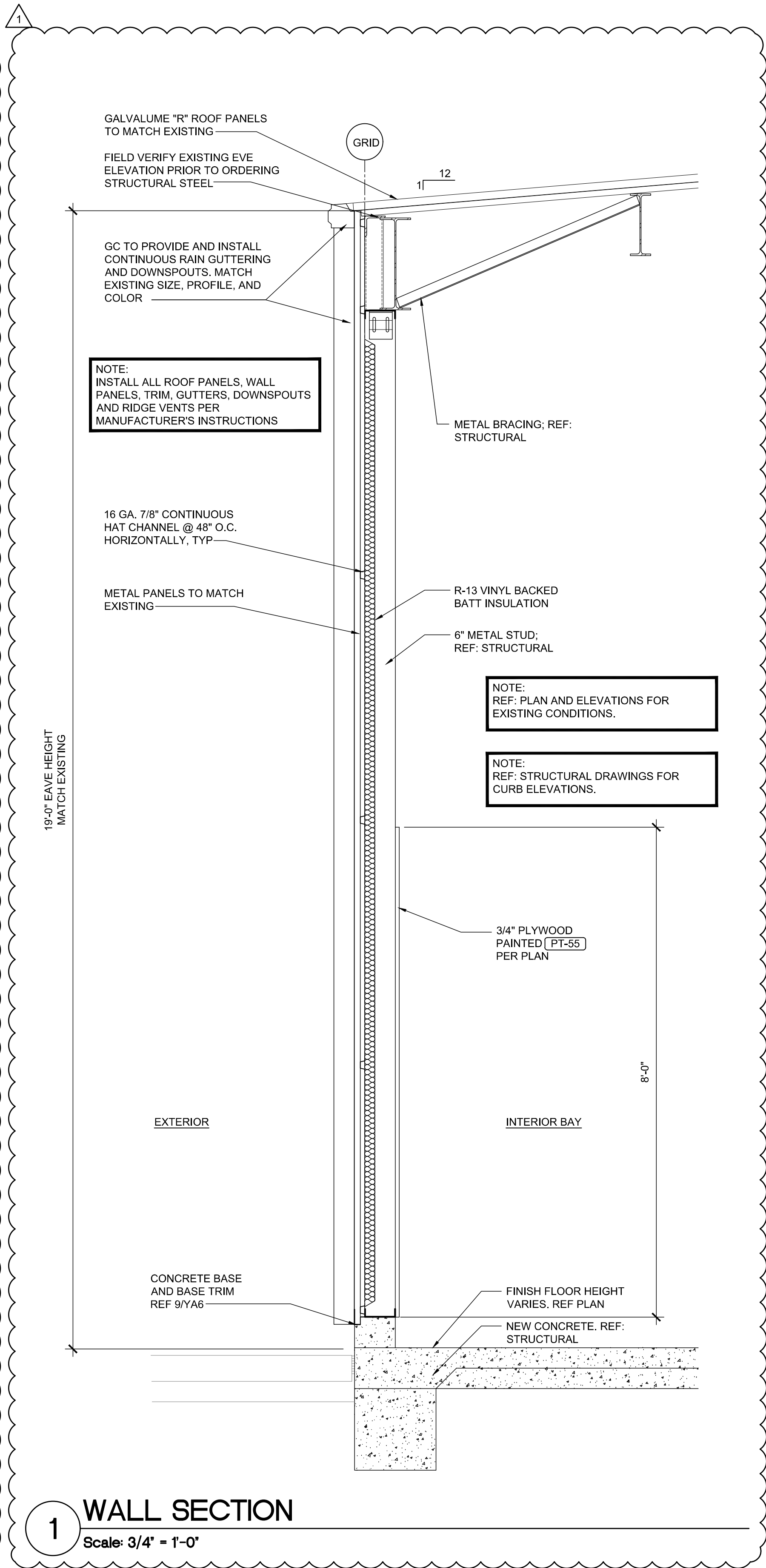
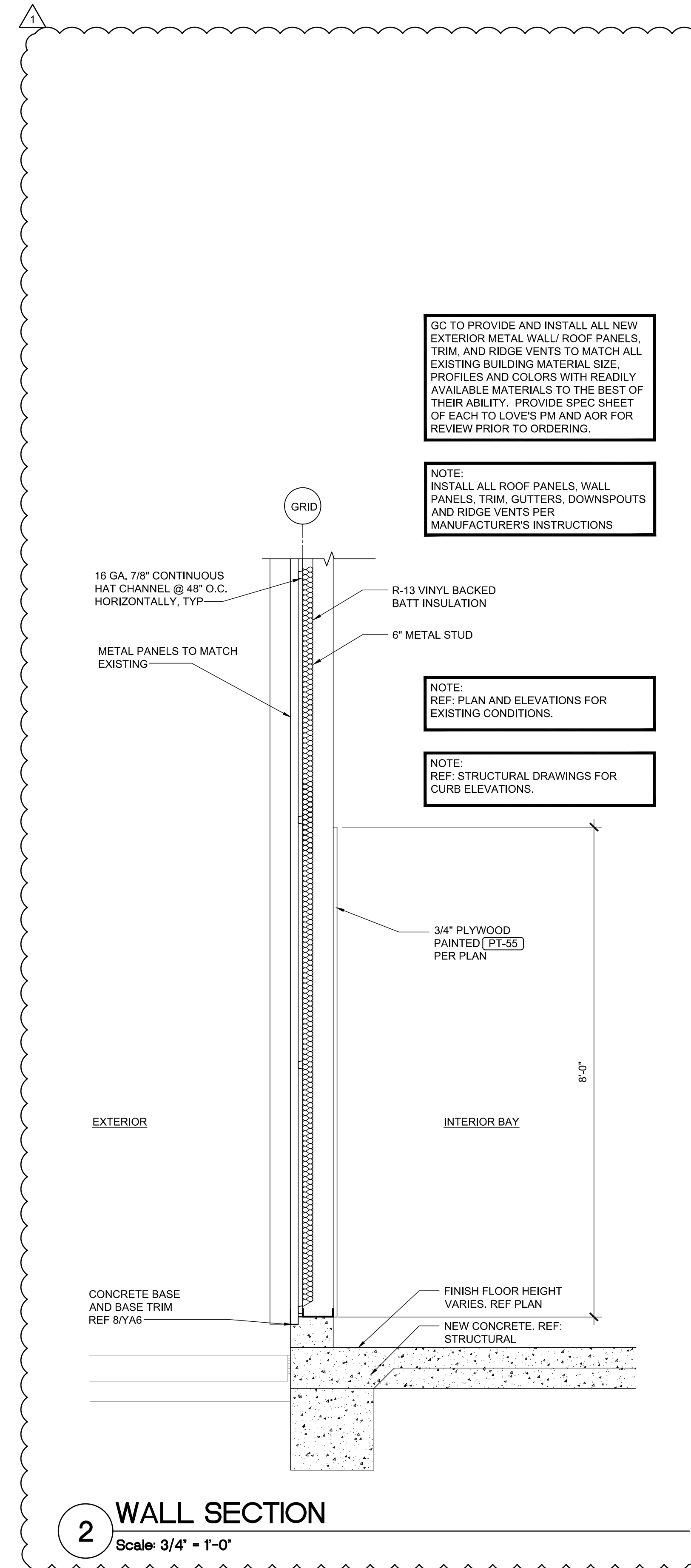
CHECKED BY: RAF
 DRAWN BY: JDH
 DOCUMENT DATE: 05/05/21

STATE OF MICHIGAN
 JAMES EDWARD MANN
 ARCHITECT
 No. 1301066921
 LICENSED ARCHITECT

James Mann
 2021.08.12 16:39:51-0500

WALL SECTIONS & DETAILS

SHEET: **YA3**



- SHEET NOTES:**
- DEVON EZ-GUIDE SAFETY COVER, PROVIDED BY OWNER & INSTALLED BY GC.
 - PAINT LUBE PIT WALLS & FLOOR WITH "SHERWIN WILLIAMS" ARMORSEAL 100HS-B67-2000 CLEAR BASE WITH GLOSS FINISH
 - PIT SAFETY NETTING PROVIDED BY OWNER & INSTALLED BY GC INSTALLED AFTER OIL CADDY HAS BEEN INSTALLED.

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STORE NUMBER: 838
18720 GARFIELD RD
MARSHALL, MI 49068

JOB NUMBER: 03-21-20336

ISSUE BLOCK

NO.	DATE	DESCRIPTION
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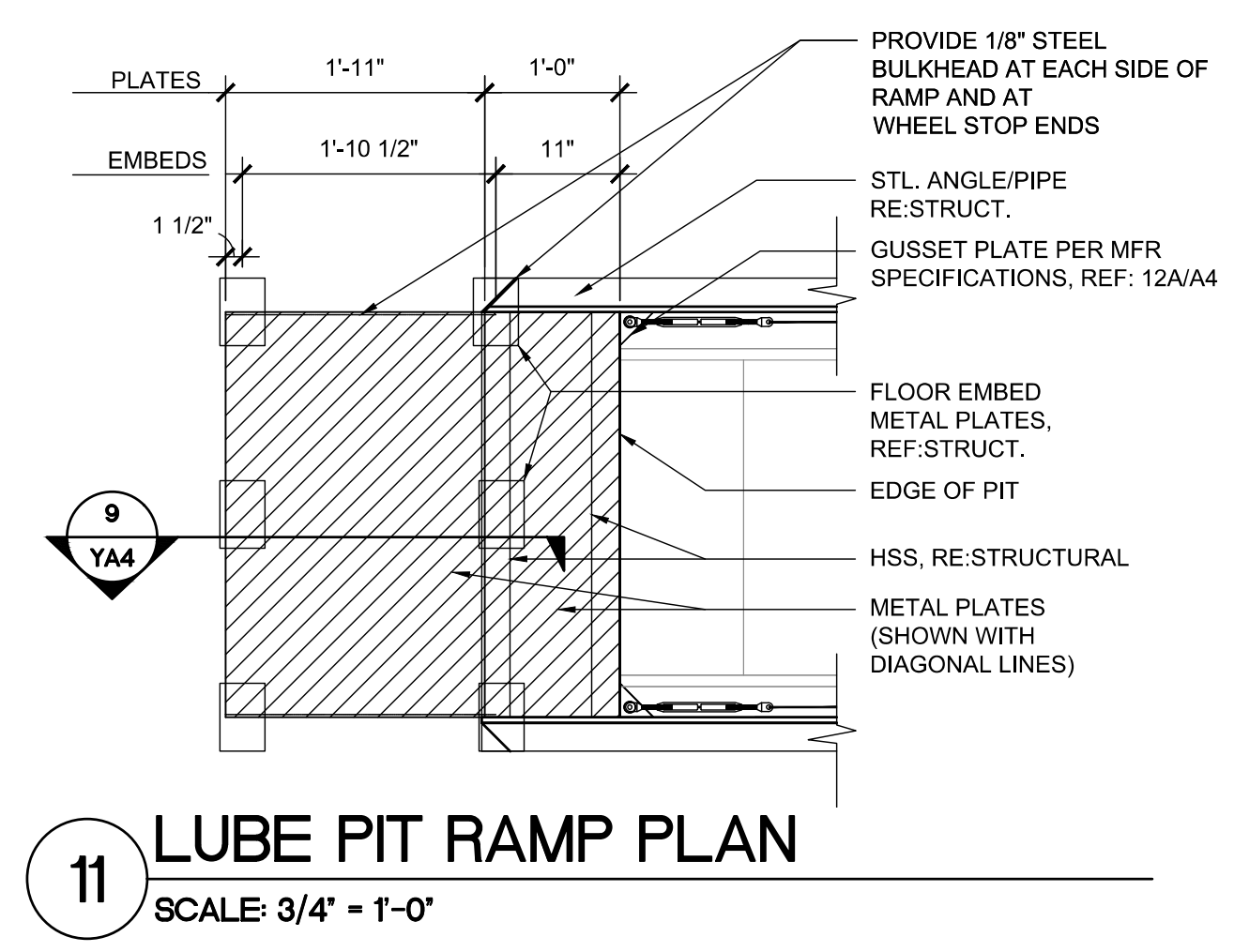
CHECKED BY: RAF
DRAWN BY: JDH
DOCUMENT DATE: 05/05/21

STATE OF MICHIGAN
JAMES EDWARD MANN
ARCHITECT
No. 1301068921
LICENSED ARCHITECT

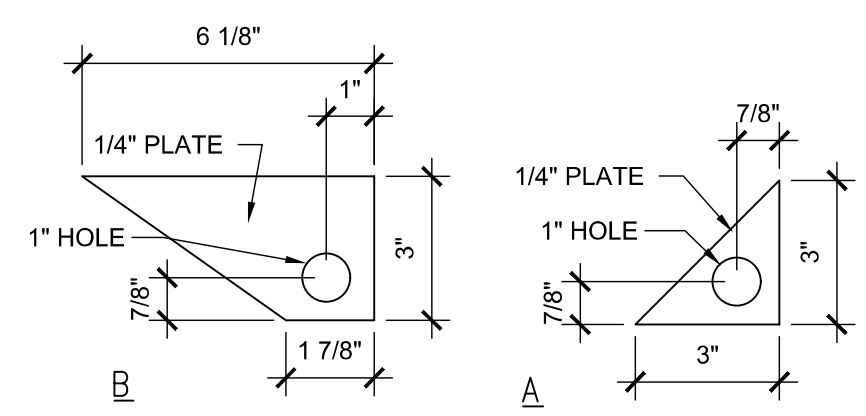
James Mann
2021.08.12 16:39:57-0500

LUBE PIT SECTIONS & DETAILS

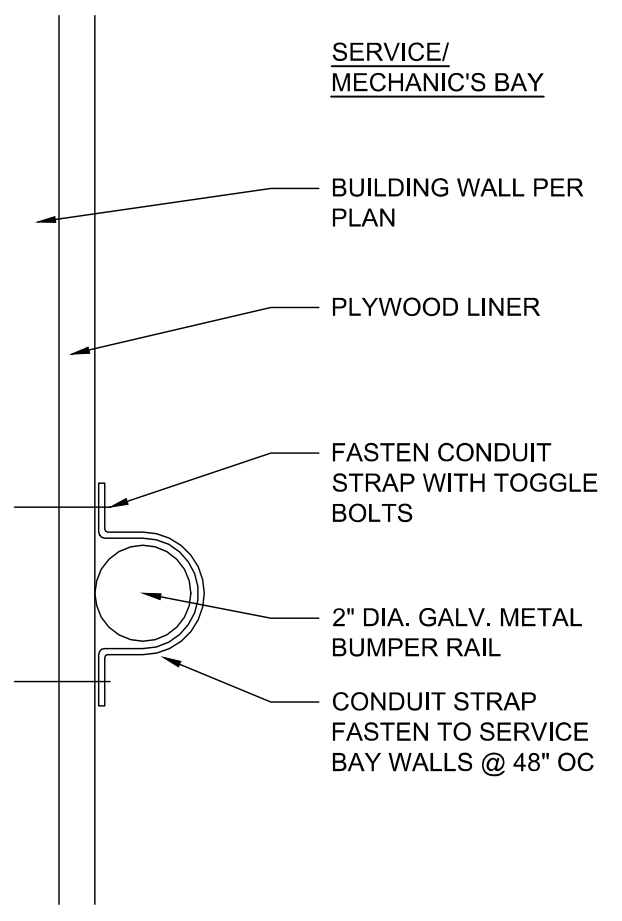
SHEET: **YA4**



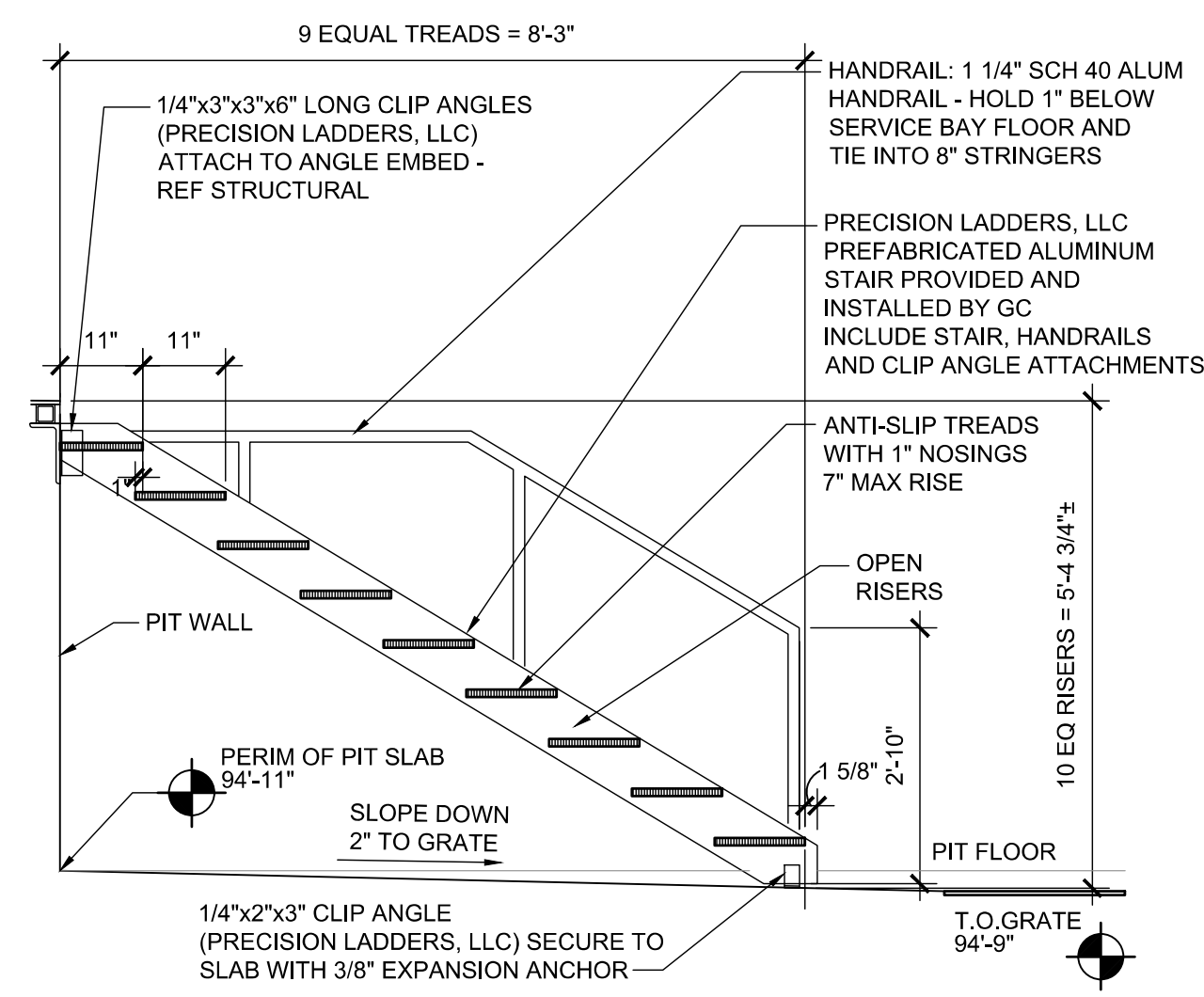
11 LUBE PIT RAMP PLAN
SCALE: 3/4" = 1'-0"



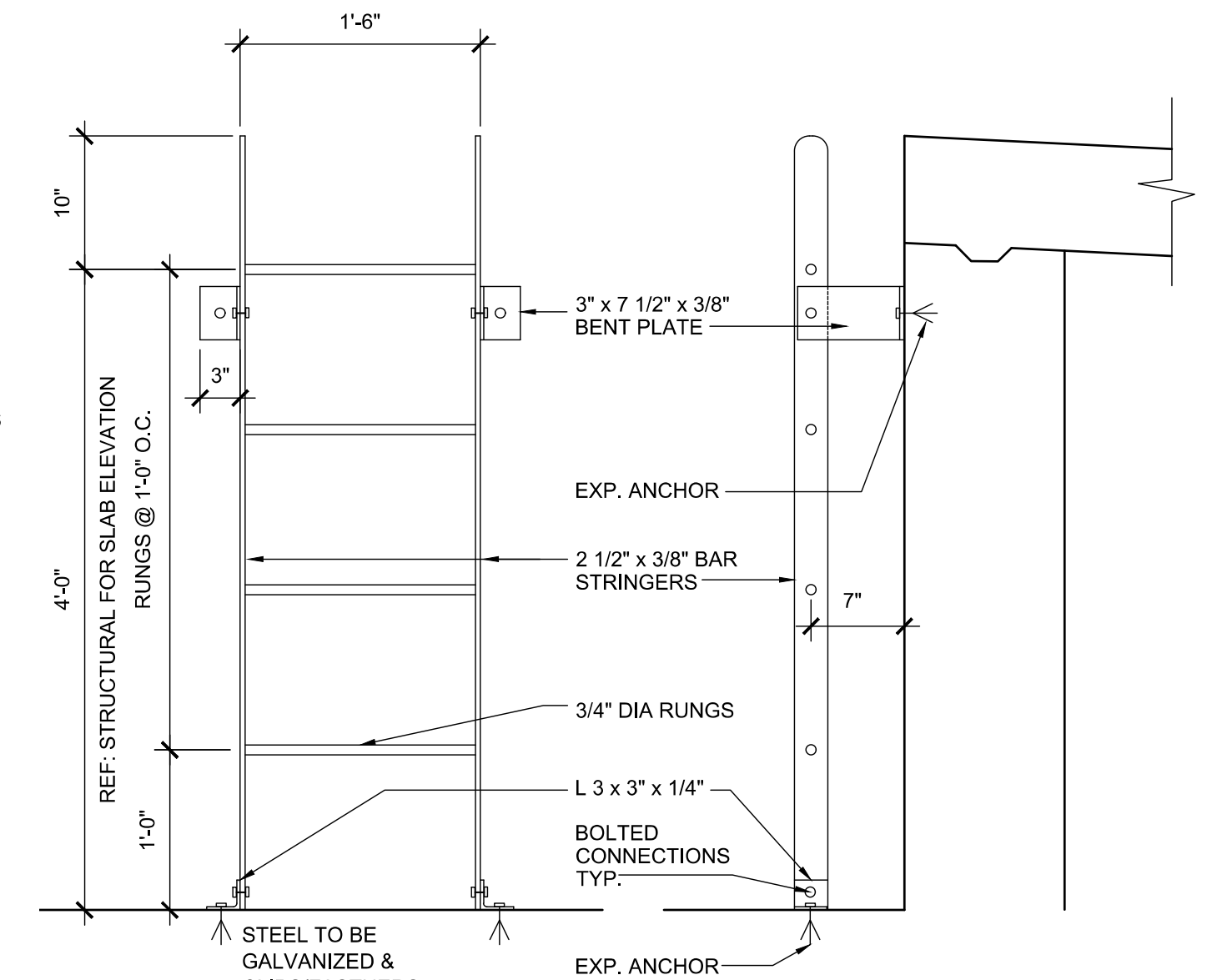
12 PLATE DETAIL
SCALE: 3" = 1'-0"



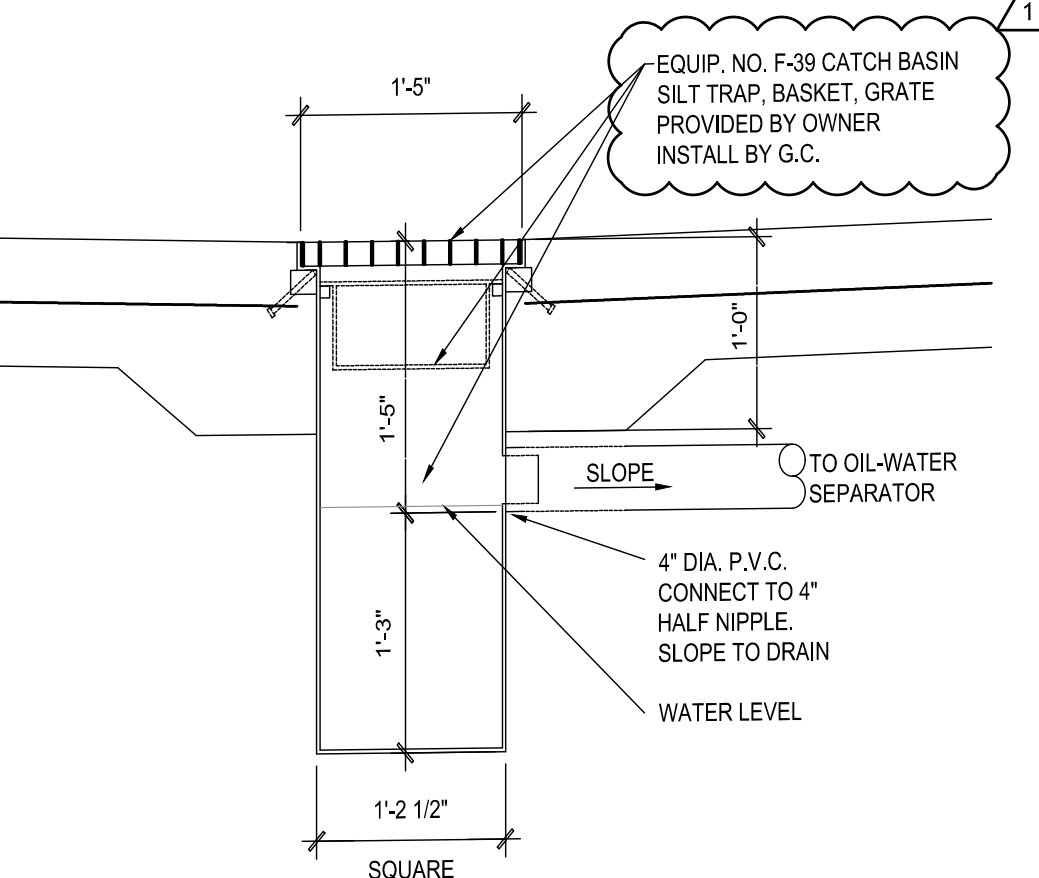
13 BUMPER RAIL
SCALE: 3" = 1'-0"



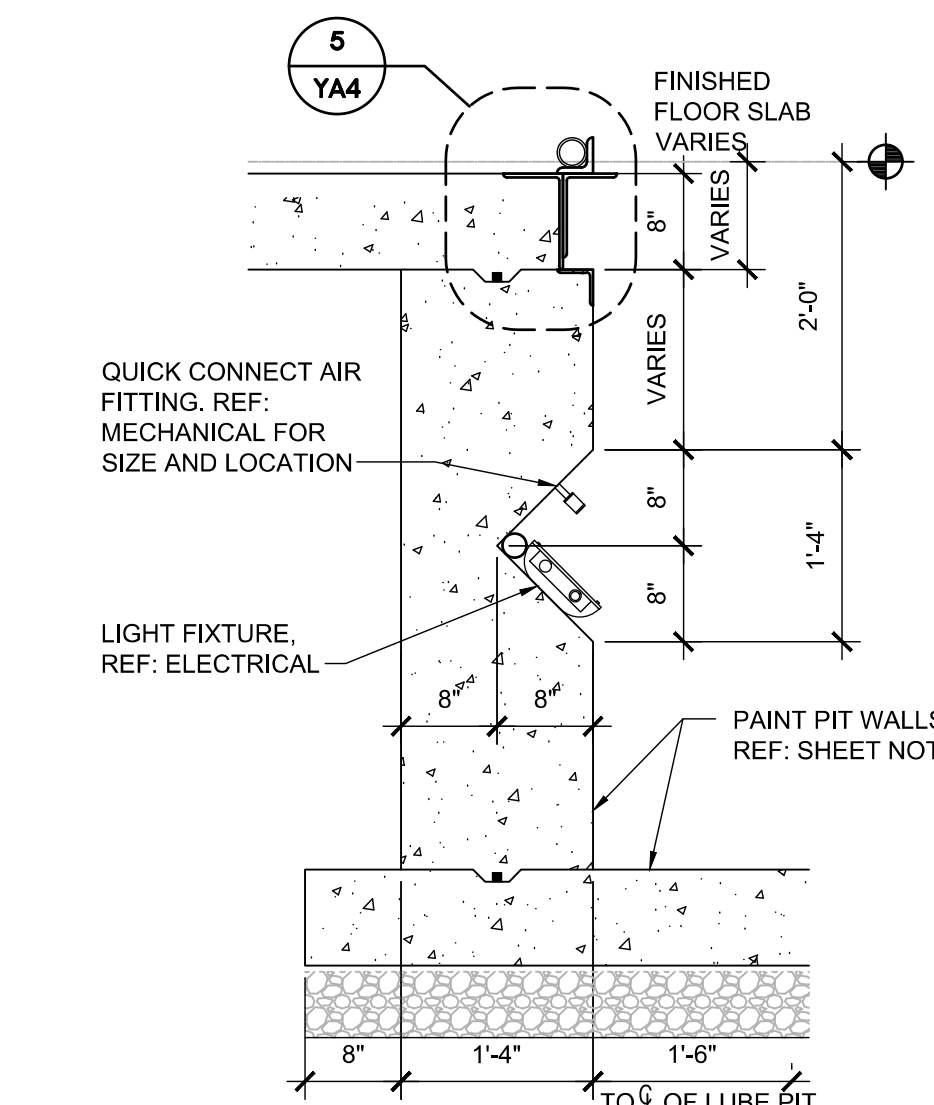
7 STAIR SECTION
SCALE: 1/2" = 1'-0"



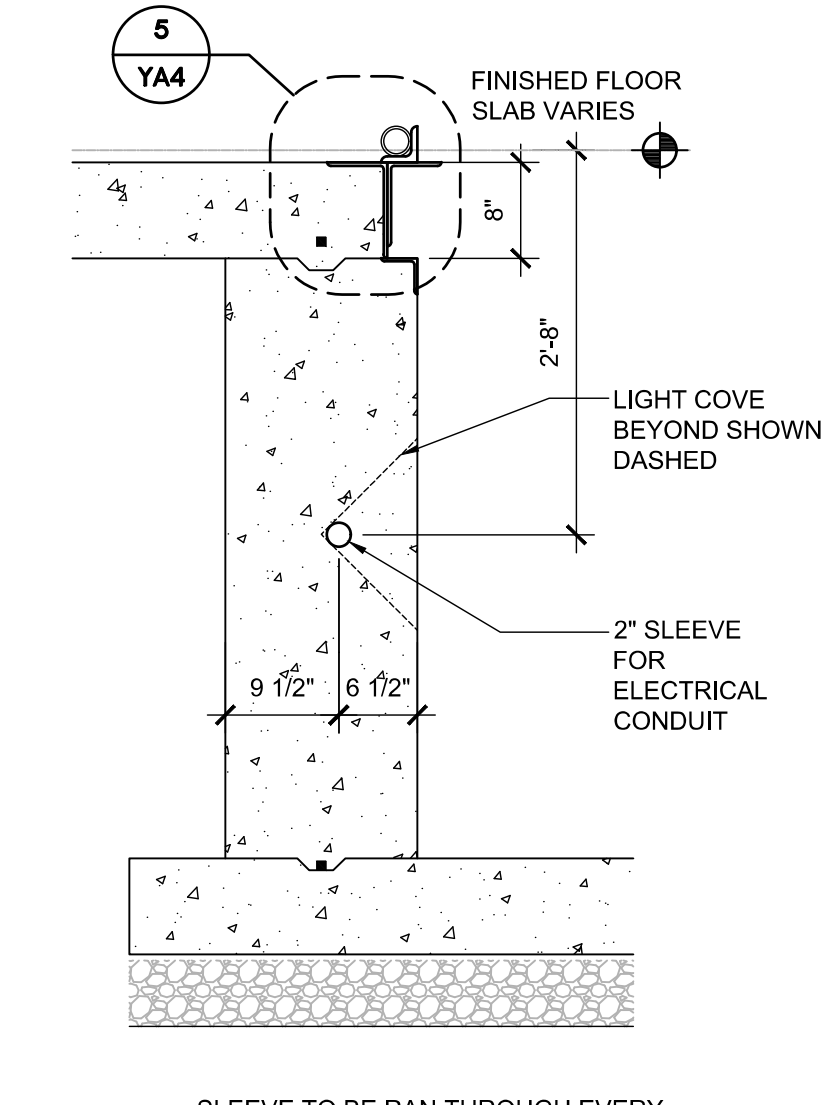
6 LADDER SECTION
SCALE: 1" = 1'-0"



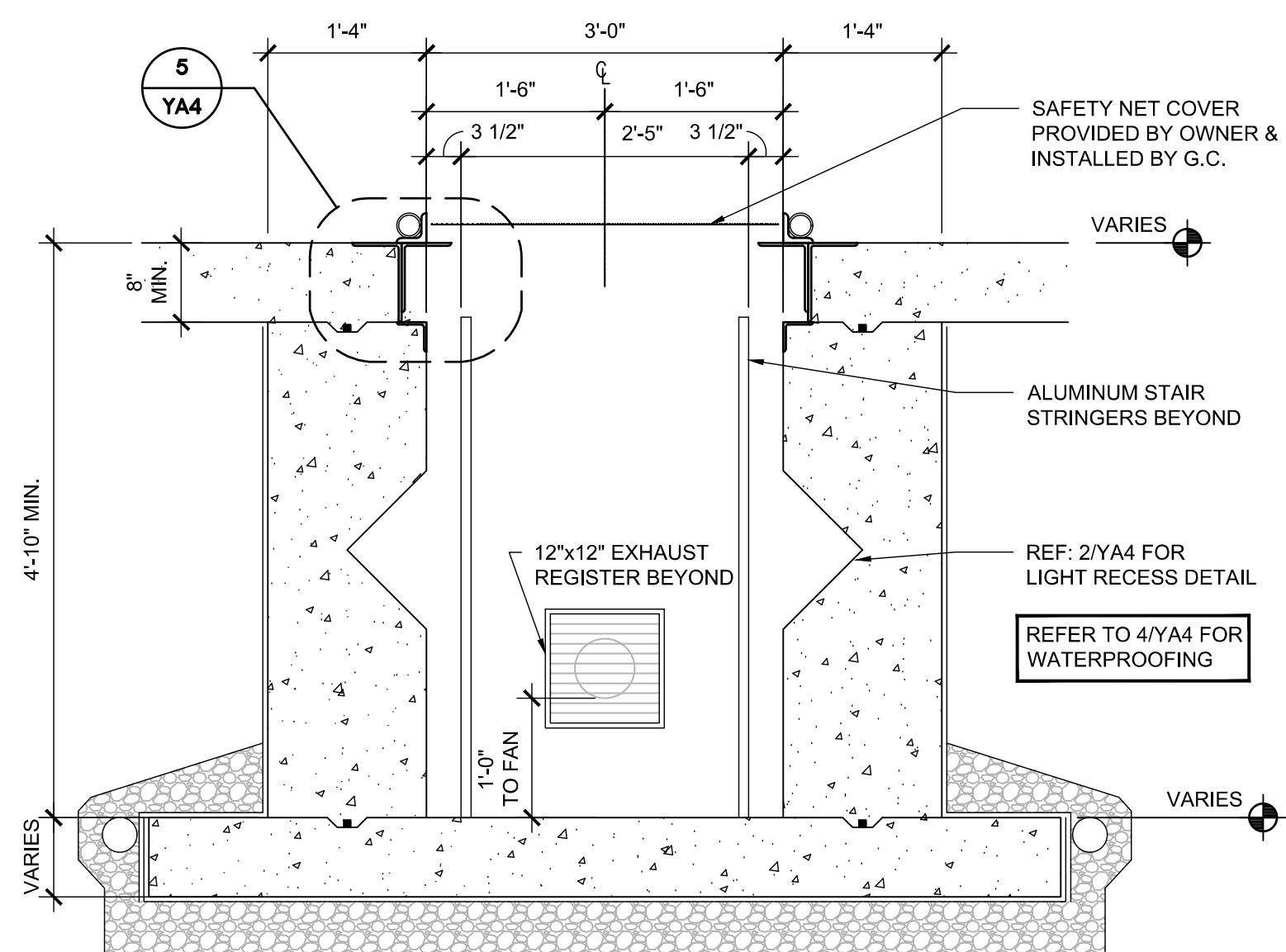
8 CATCH BASIN
SCALE: 1" = 1'-0"



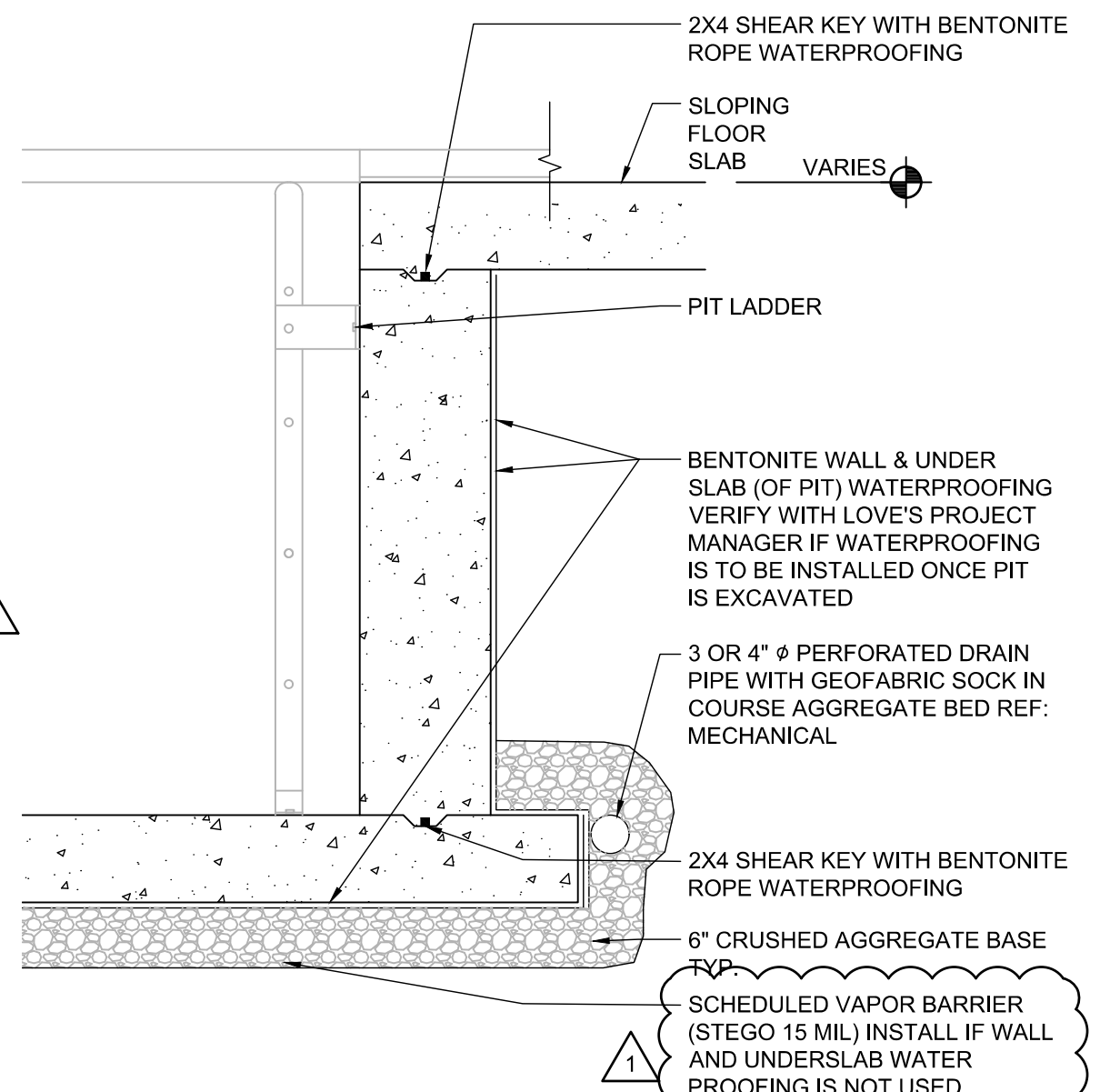
2 LIGHT RECESS (WALL) SECTION
SCALE: 3/4" = 1'-0"



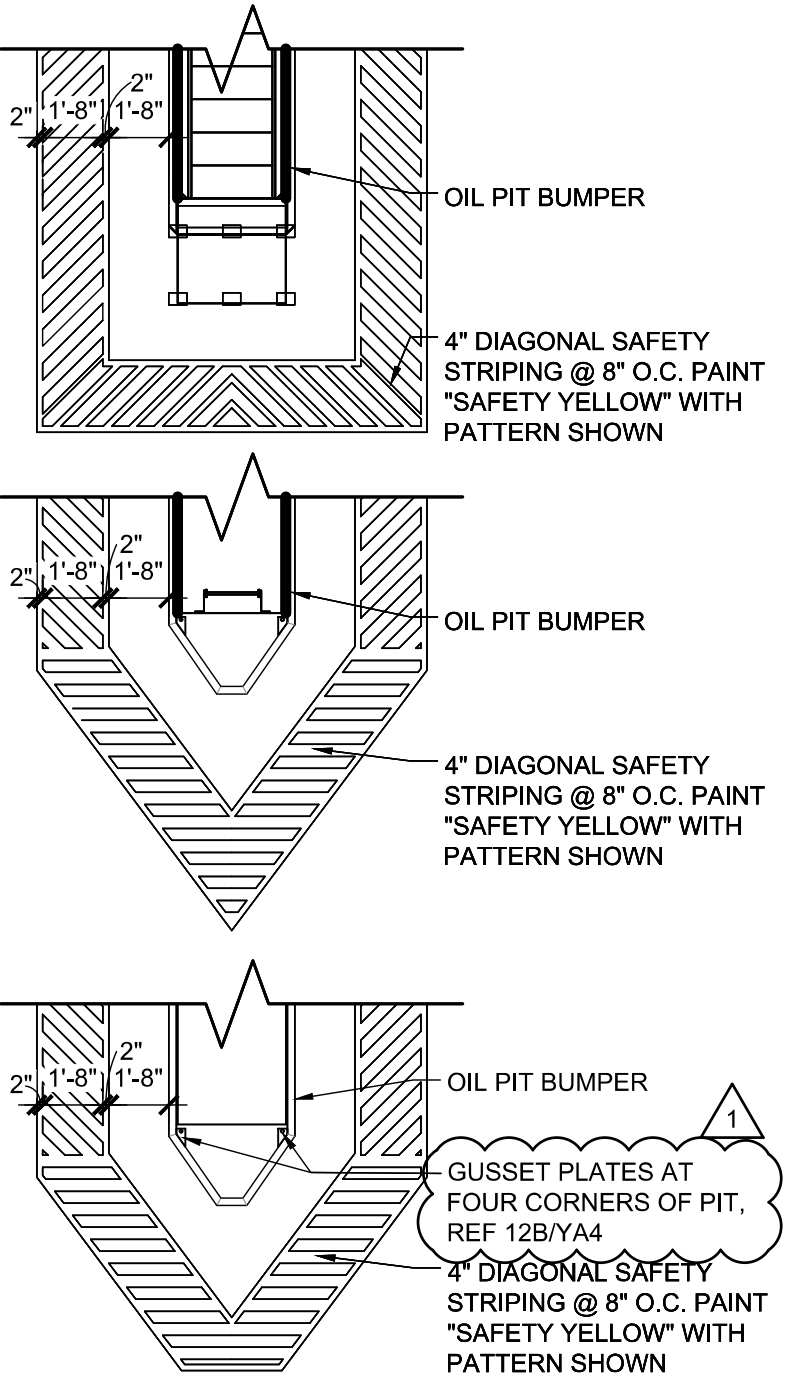
3 WALL SECTION
SCALE: 3/4" = 1'-0"



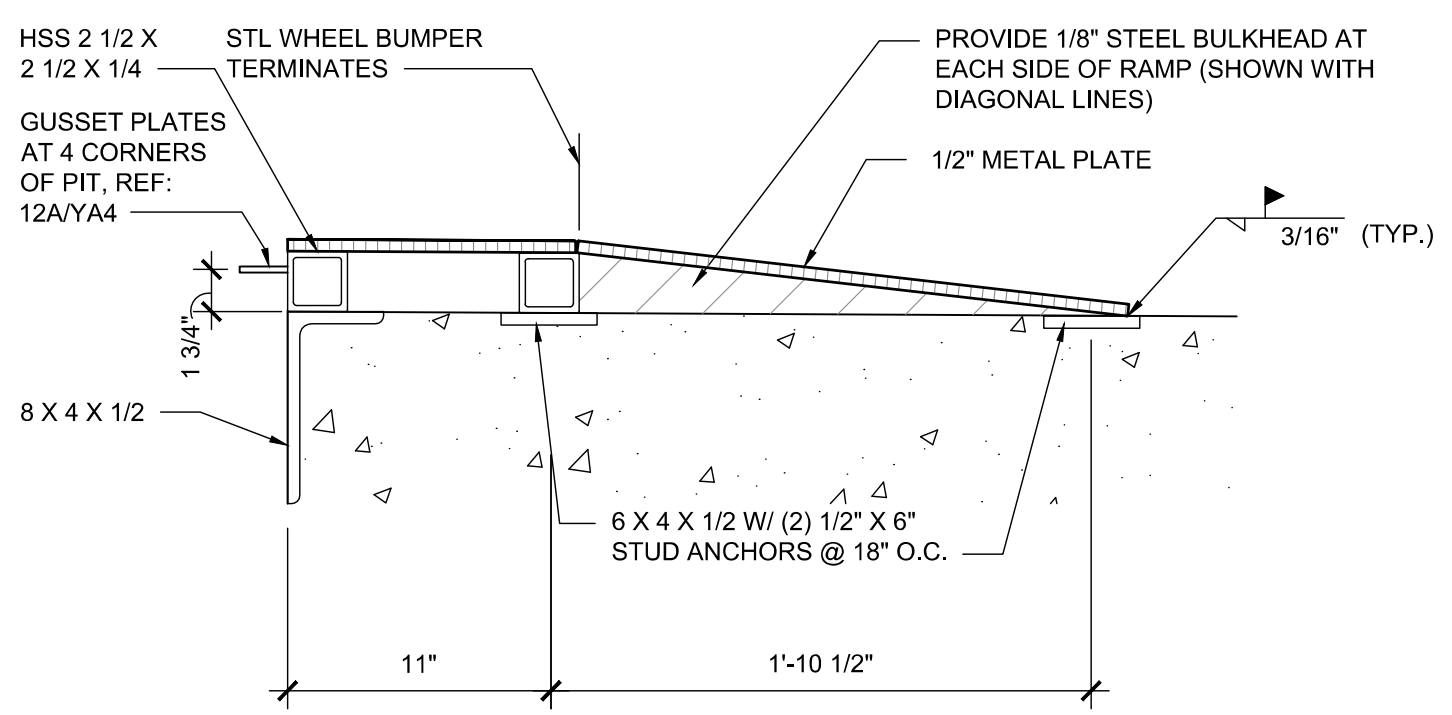
1 LUBE PIT SECTION
SCALE: 3/4" = 1'-0"



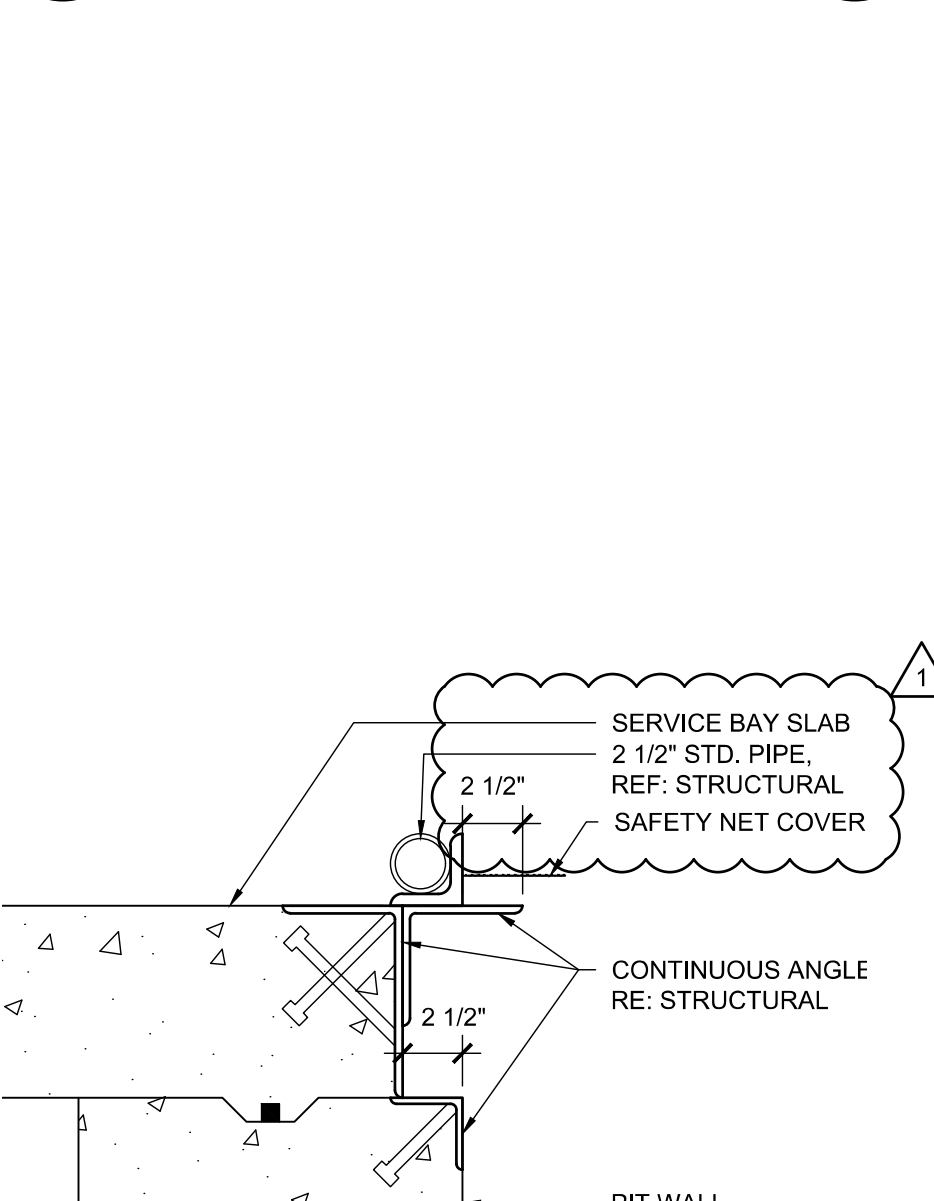
4 PIT WATERPROOFING
SCALE: 3/4" = 1'-0"



10 ENLARGED STRIPING DETAIL
SCALE: 3/16" = 1'-0"



9 METAL PLATE DETAIL
SCALE: 1-1/2" = 1'-0"



5 RAIL DETAIL
SCALE: 1 1/2" = 1'-0"

Aug 12, 2021 1:31:06pm - User: lauren.bonnett
E:\30102-17-20336 - Lubes - Marshall, MI 33066-CD\0000 Architectural\160 YA4 LUBE PIT SECTIONS & DETAILS.dwg

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JOB NUMBER: 03-21-20336

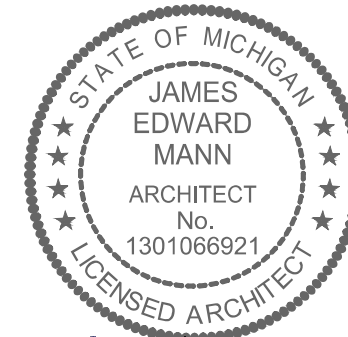
ISSUE BLOCK

NO.	DATE	DESCRIPTION
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CHECKED BY: RAF

DRAWN BY: JDH

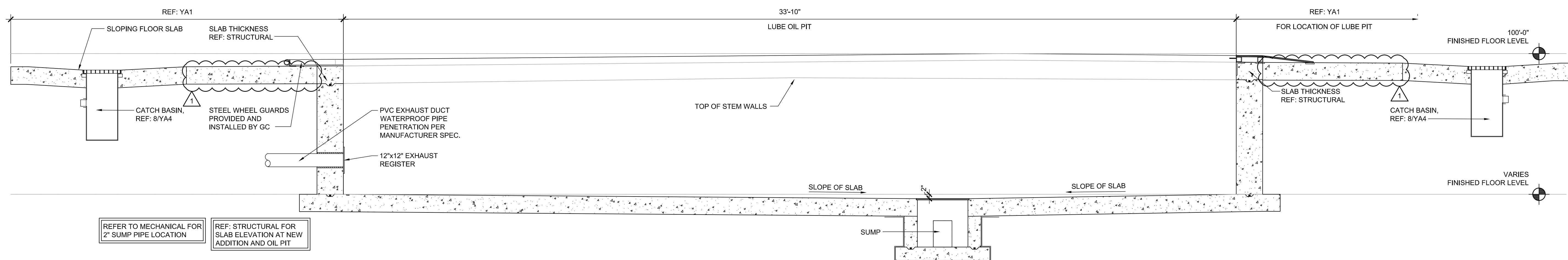
DOCUMENT DATE: 05/05/21



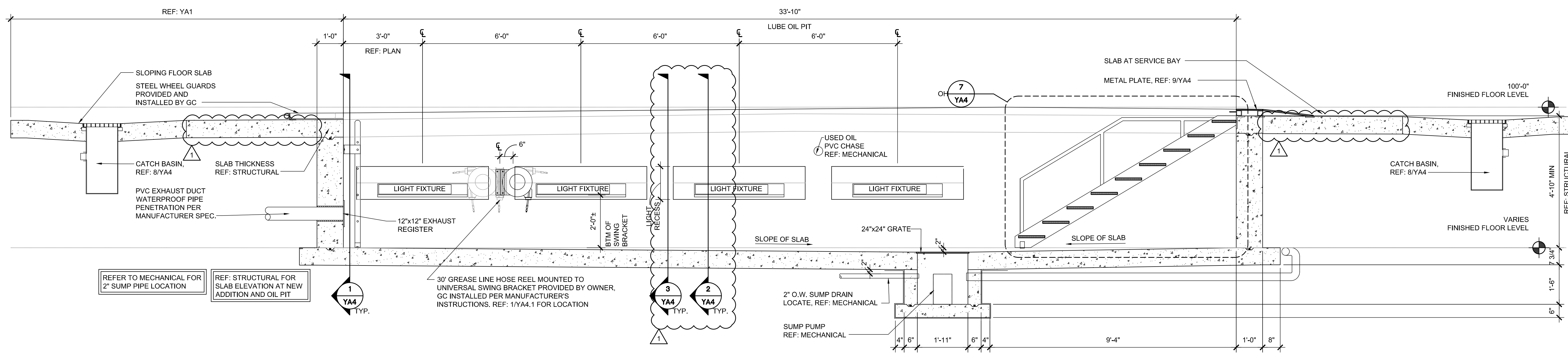
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LUBE PIT PLAN & SECTIONS

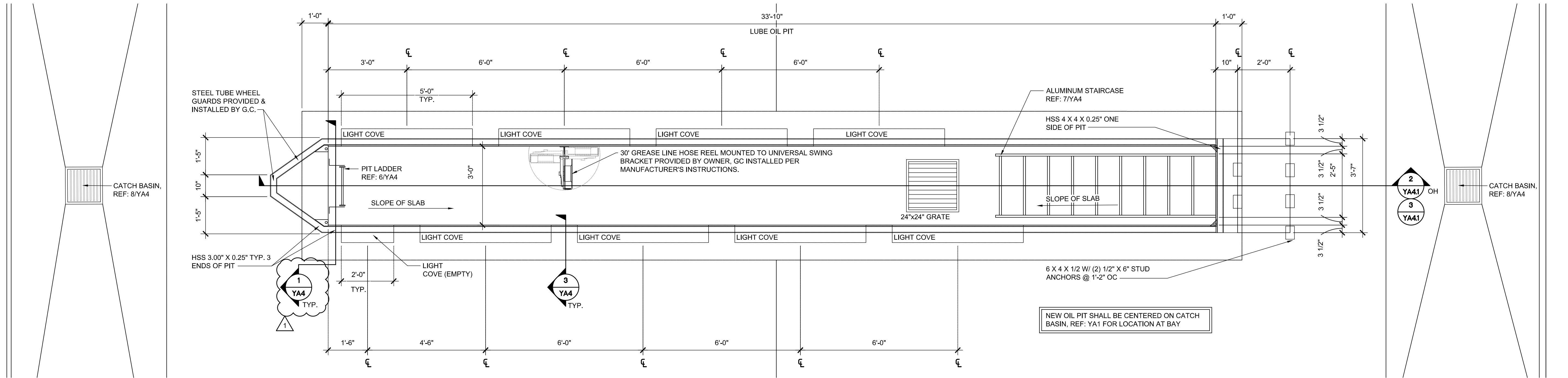
SHEET: **YA4.1**



3 LUBE PIT SECTION
SCALE: 1/2" = 1'-0"



2 LUBE PIT SECTION
SCALE: 1/2" = 1'-0"

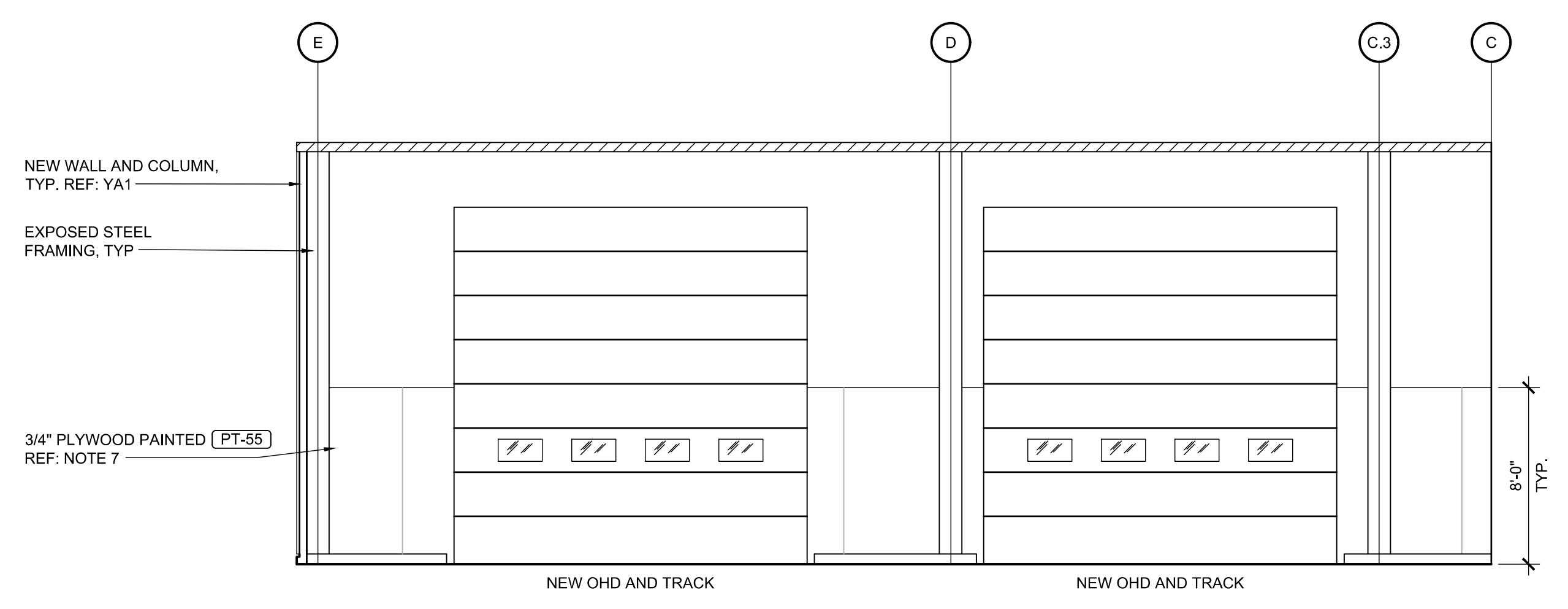


1 33'-10" LUBE PIT PLAN
SCALE: 1/2" = 1'-0"

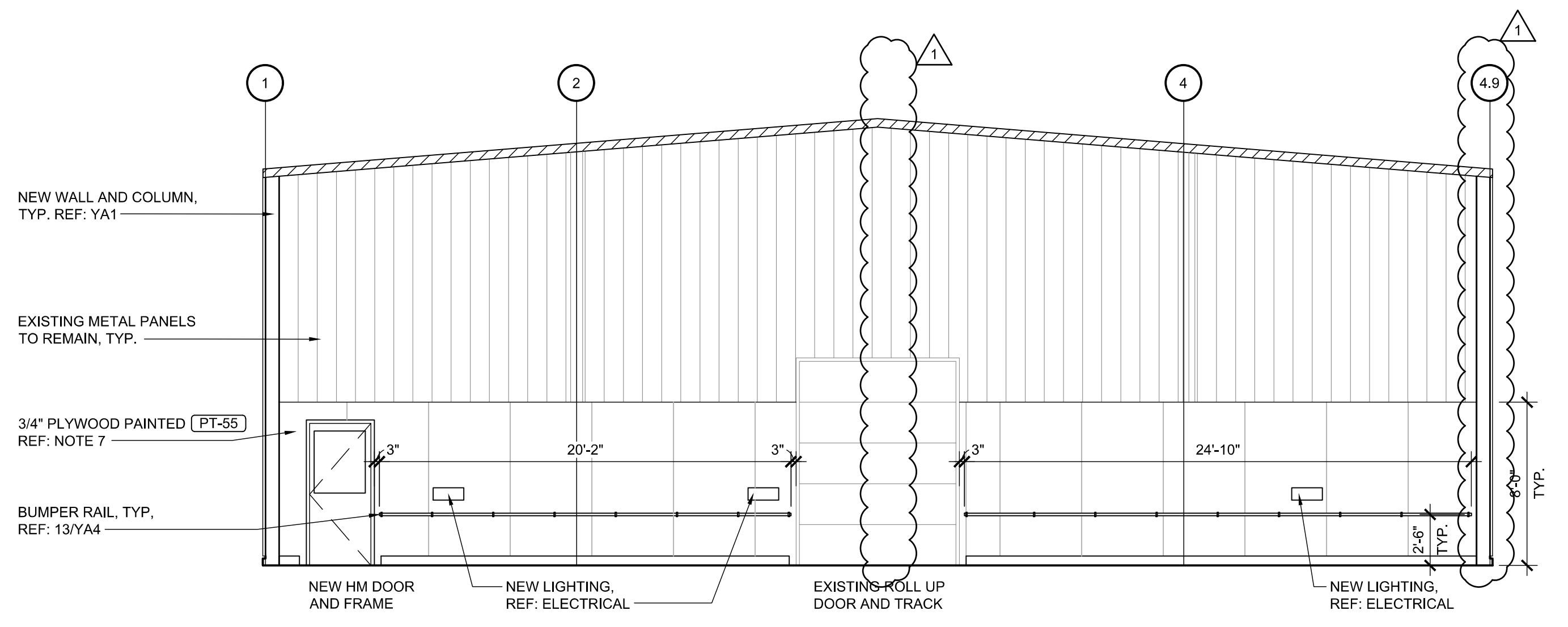
Aug 12, 2021 1:31:06pm - User: lauren.bonnett
E:\301024\21-20336-Lubes - Marshall, MI\30106-CD\0000 Architectural\162-YA4.1 LUBE PIT PLAN & SECTIONS.dwg

- SHEET NOTE:**
- EXISTING SIGNAGE TO REMAIN UNLESS NOTED OTHERWISE.
 - REFER TO ELECTRICAL SHEETS FOR WALL PACK LIGHTS AND LOCATIONS.
 - REFER TO MECHANICAL SHEETS FOR EXACT MOUNTING HEIGHTS OF EXHAUST FANS.
 - SEAL HOLES IN METAL BUILDING PANELS AS REQUIRED.
 - NEW RIDGE VENT TO MATCH EXISTING STYLE AND COLOR.
 - PAINT METAL DOORS AND FRAMES TO MATCH ADJACENT WAINSCOT COLOR UNLESS NOTED OTHERWISE.
 - INSTALL WATER RESISTANT 1X4 AT EVERY VERTICAL AND HORIZONTAL BUTT JOINT. TYPICAL FOR ALL PLYWOOD WALL FINISH.

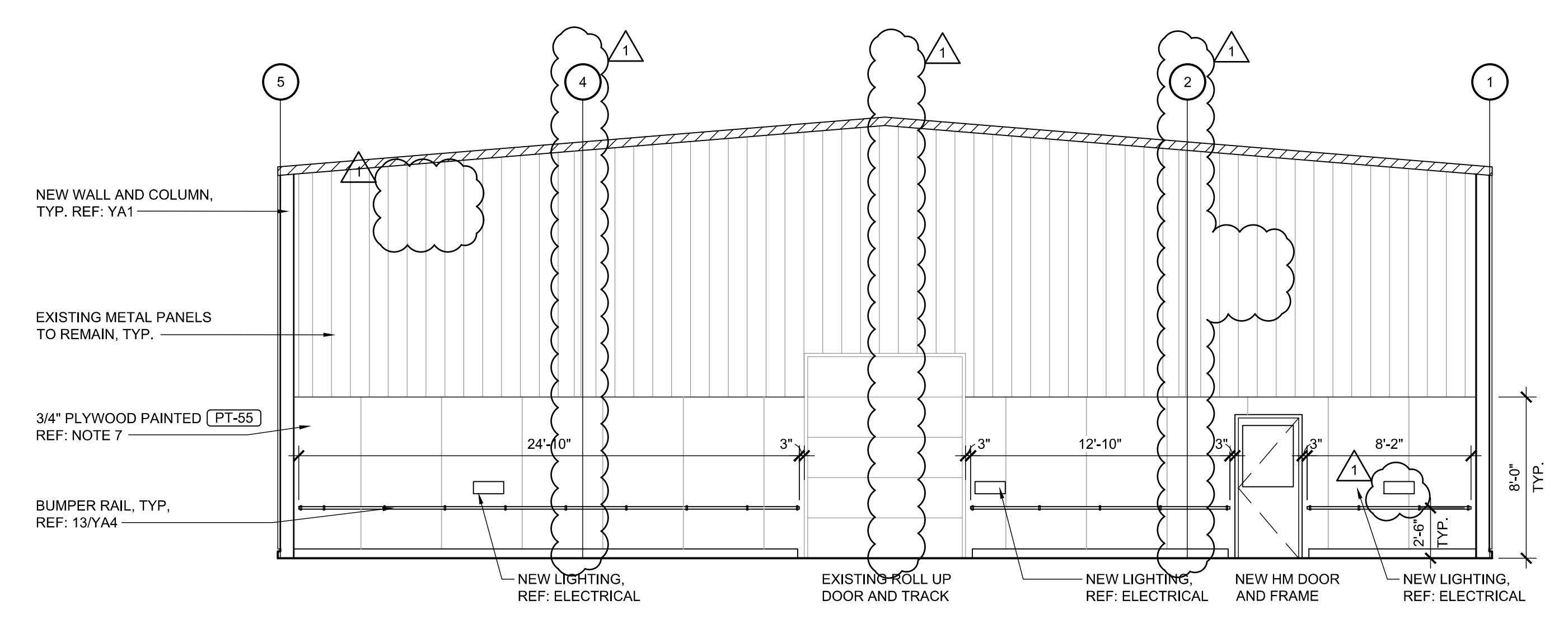
NOTE:
 EXPOSED METAL STUD FRAMING NOT SHOWN FOR CLARITY



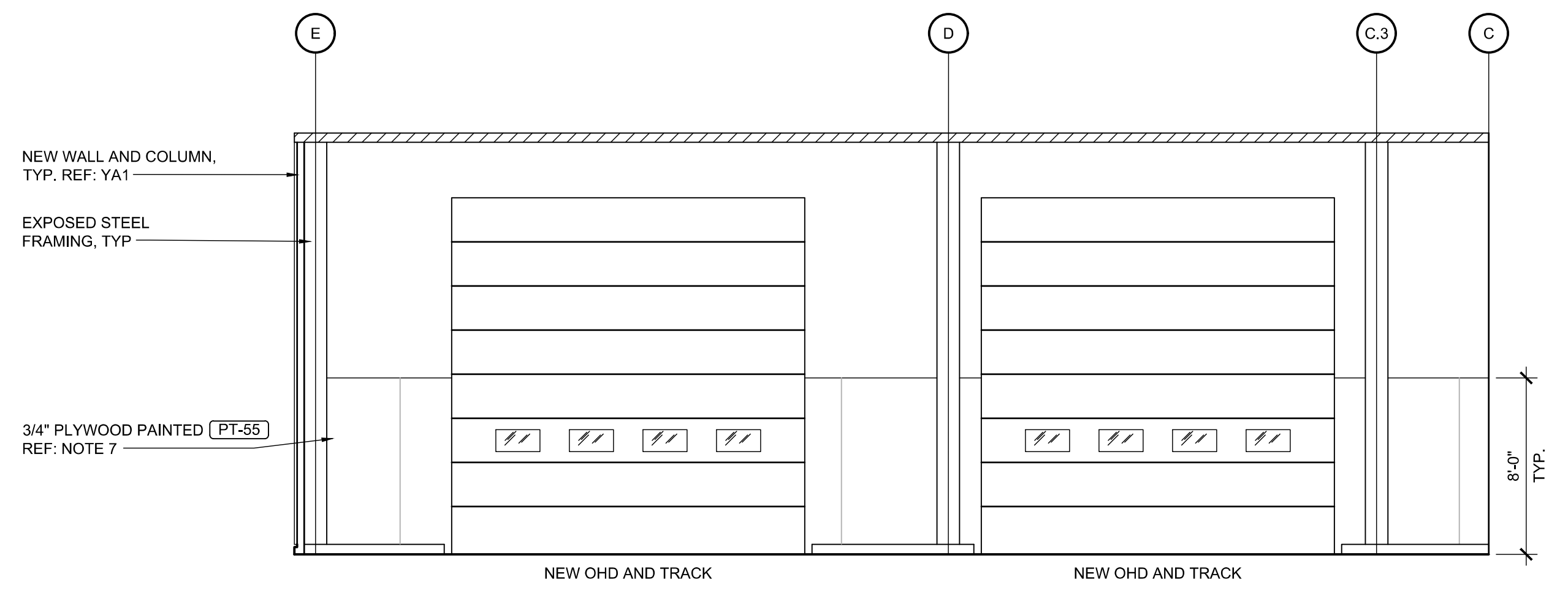
5 ELEVATION
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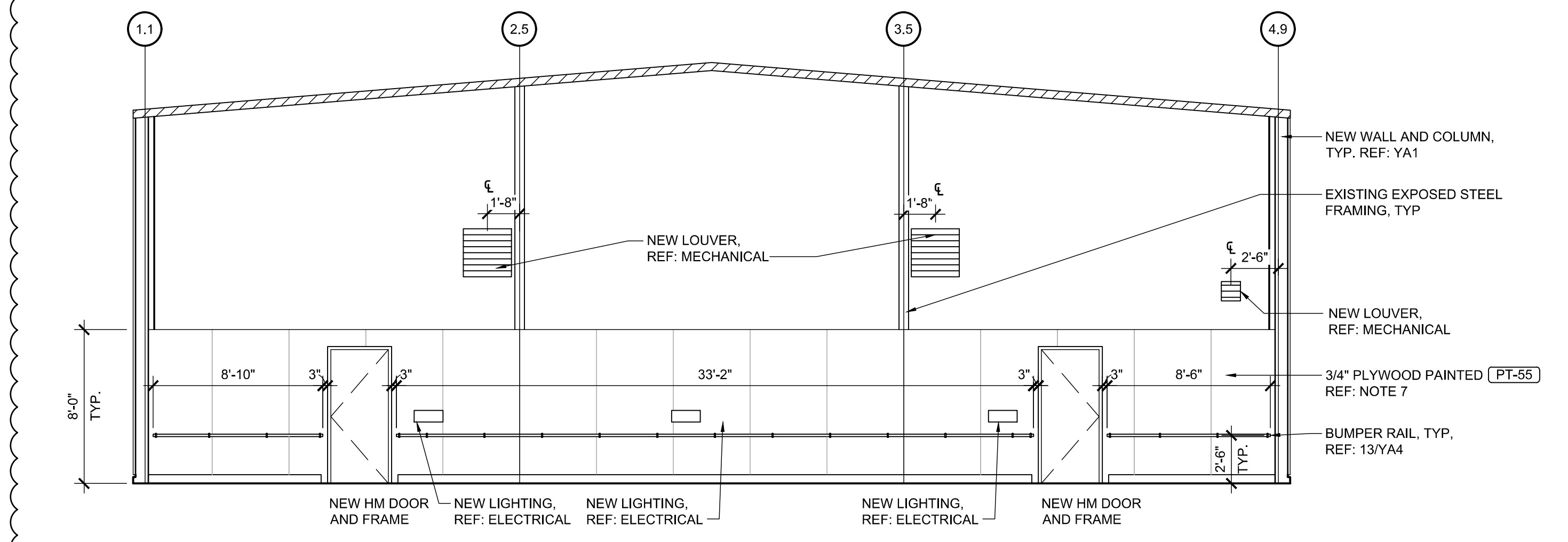
4 ELEVATION
 SCALE: 3/16" = 1'-0"



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



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



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

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 MARSHALL, MI 49068
 JOB NUMBER: 03-21-20356

ISSUE BLOCK

1	07/09/21	ADD 1

CHECKED BY: RAF
 DRAWN BY: JDH
 DOCUMENT DATE: 05/05/21

STATE OF MICHIGAN
 JAMES EDWARD MANN
 ARCHITECT
 No. 1301066921
 LICENSED ARCHITECT
 2021.08.12 16:40:08-0500

INTERIOR ELEVATIONS

SHEET: YA5

NOTE:
EXPOSED METAL
STUD FRAMING NOT
SHOWN FOR CLARITY

- SHEET NOTE:
- EXISTING SIGNAGE TO REMAIN UNLESS NOTED OTHERWISE.
 - REFER TO ELECTRICAL SHEETS FOR WALL PACK LIGHTS AND LOCATIONS.
 - REFER TO MECHANICAL SHEETS FOR EXACT MOUNTING HEIGHTS OF EXHAUST FANS.
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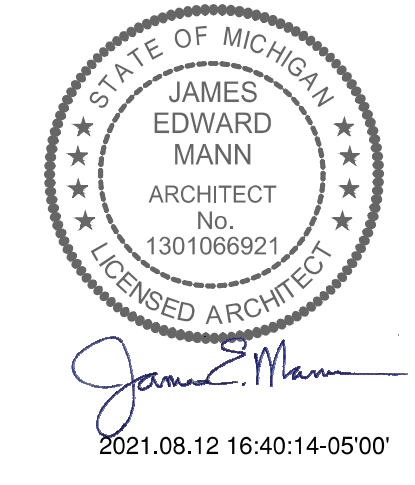
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18720 MARTELLO RD
MARSHALL, MI 49069

JOB NUMBER: 03-21-20336

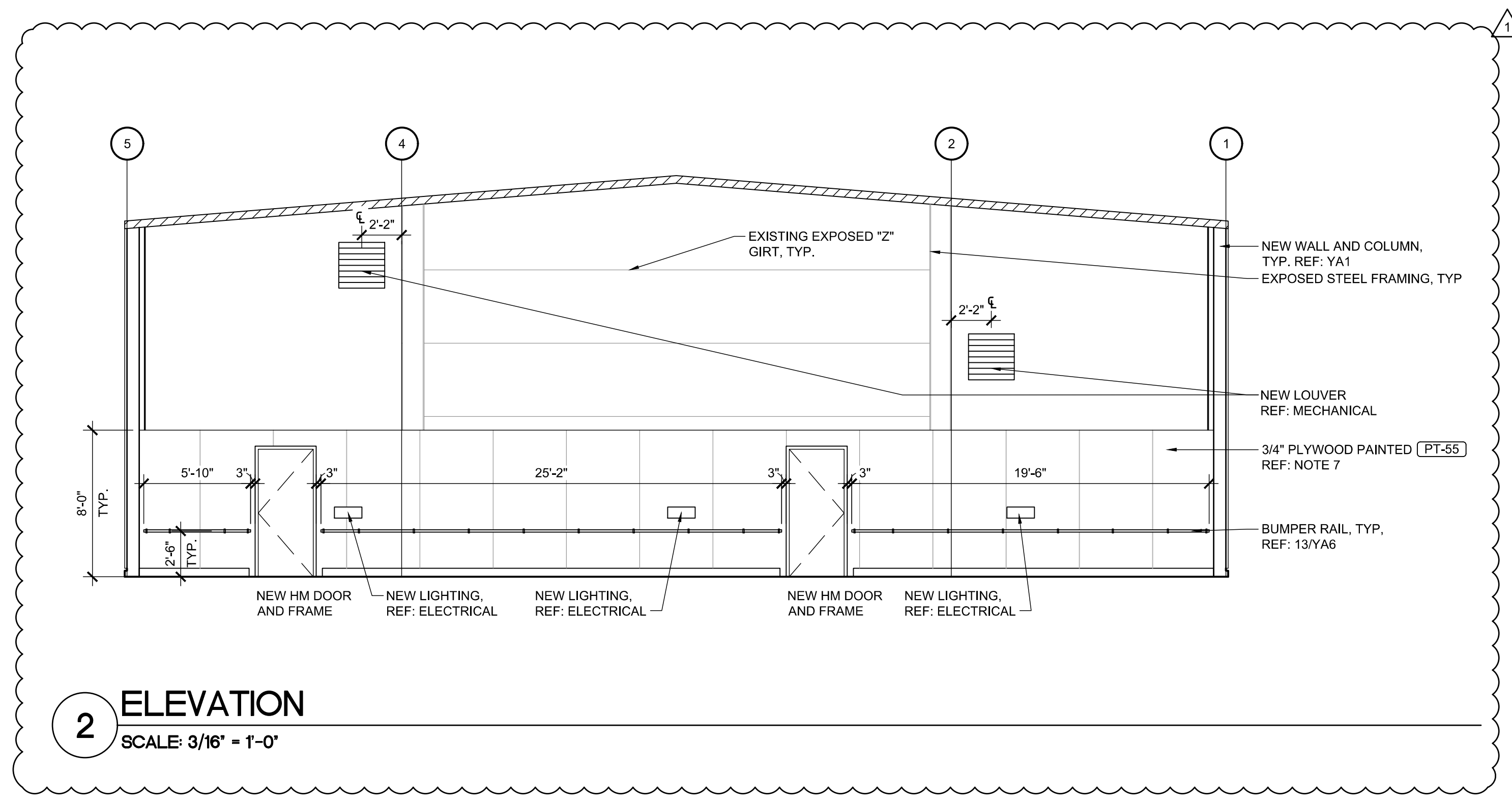
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CHECKED BY: RAF
DRAWN BY: JDH
DOCUMENT DATE: 05/05/21

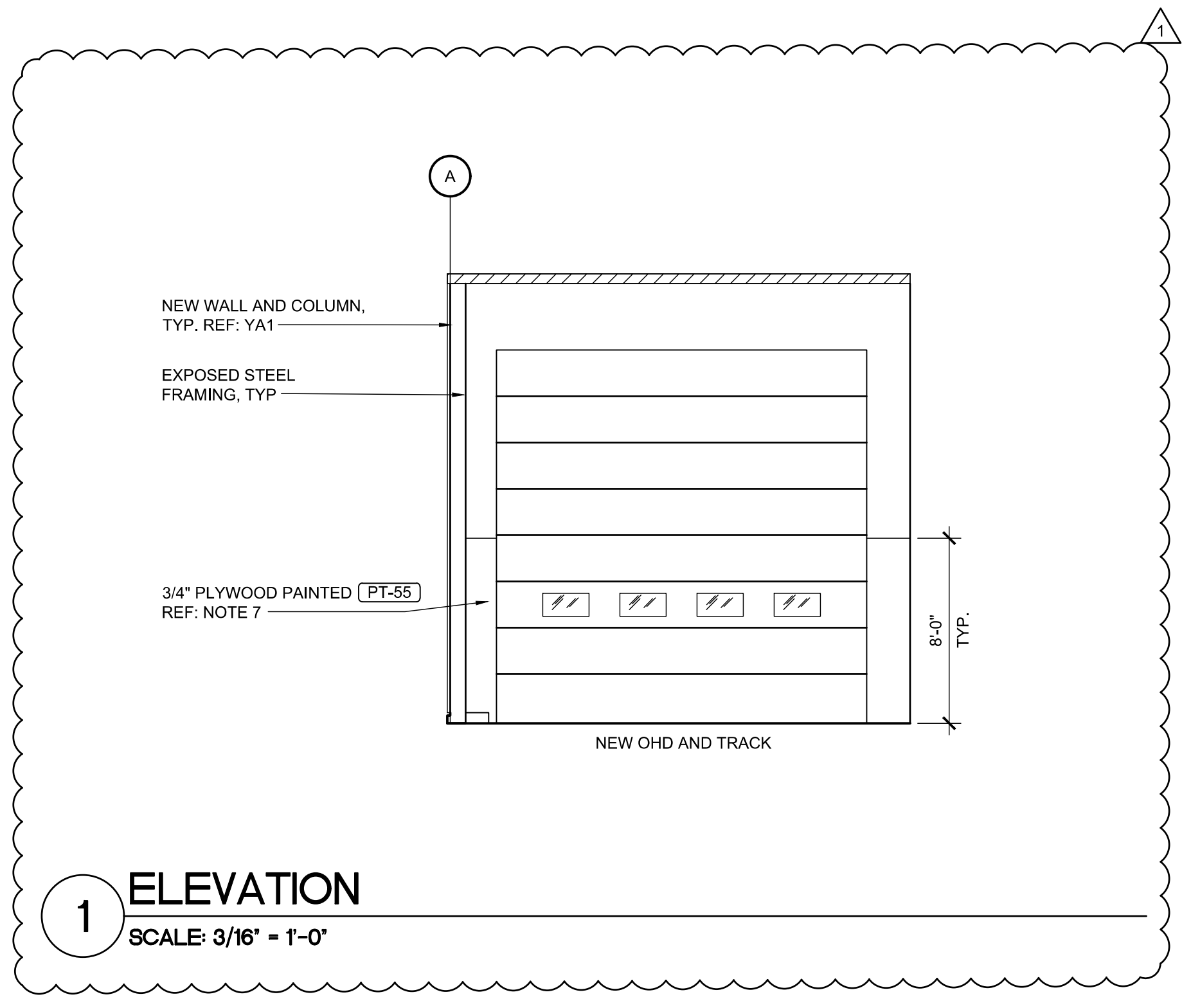


INTERIOR ELEVATIONS

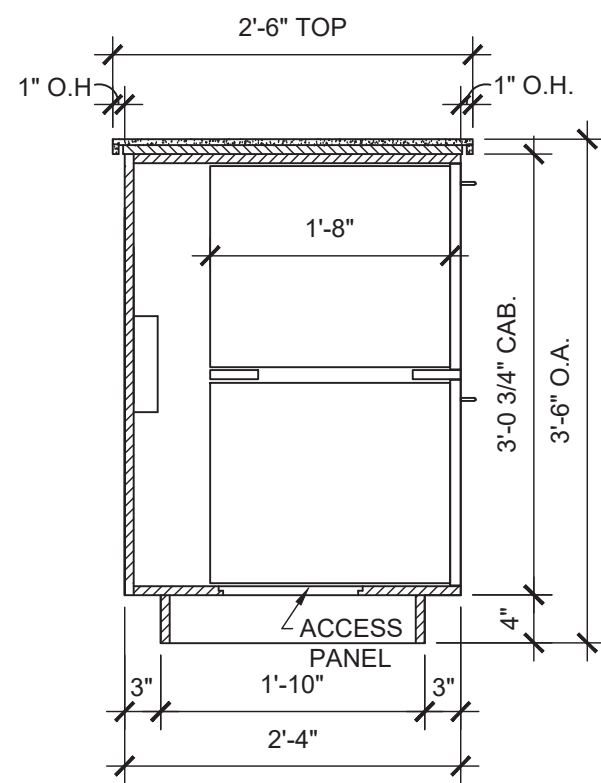
SHEET: **YA5.1**



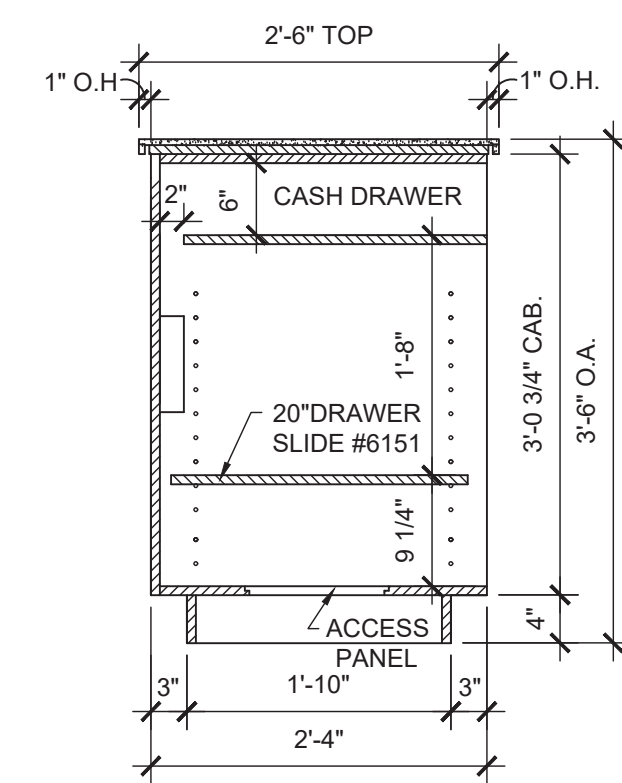
2 ELEVATION
SCALE: 3/16" = 1'-0"



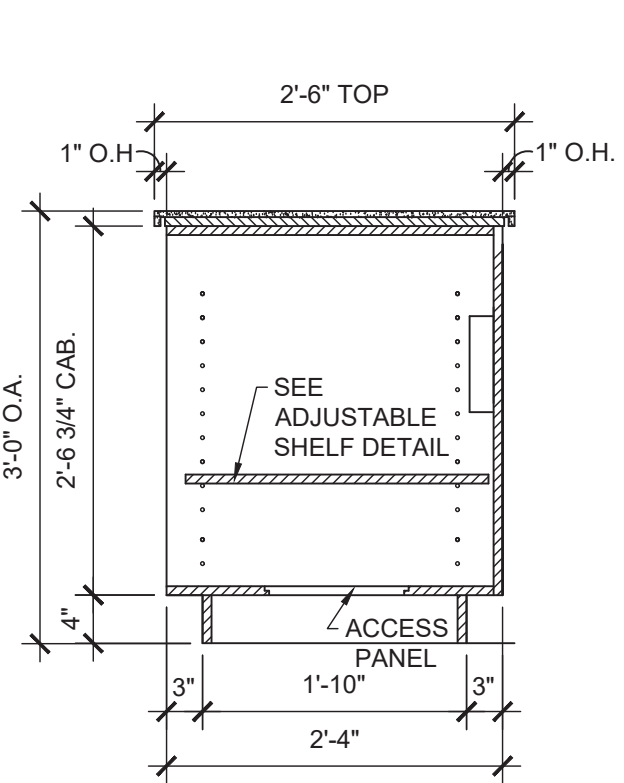
1 ELEVATION
SCALE: 3/16" = 1'-0"



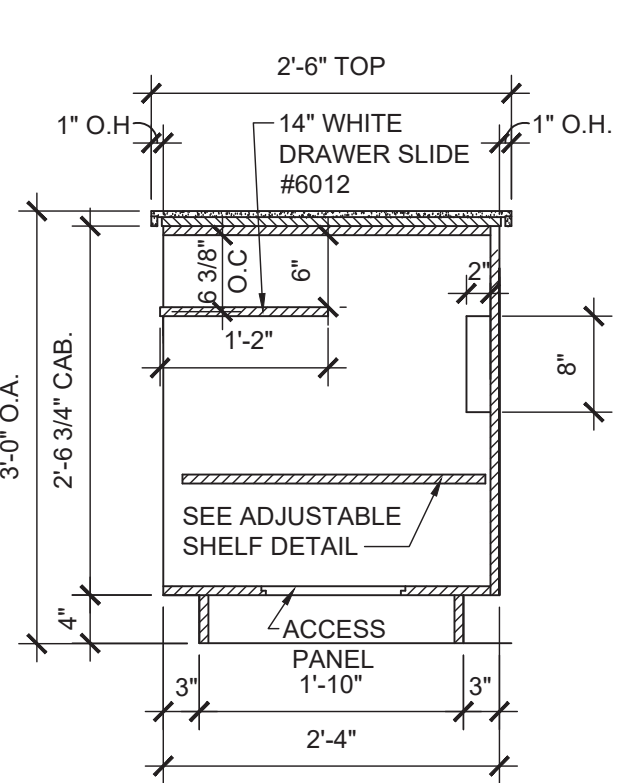
10 COUNTER SECTION
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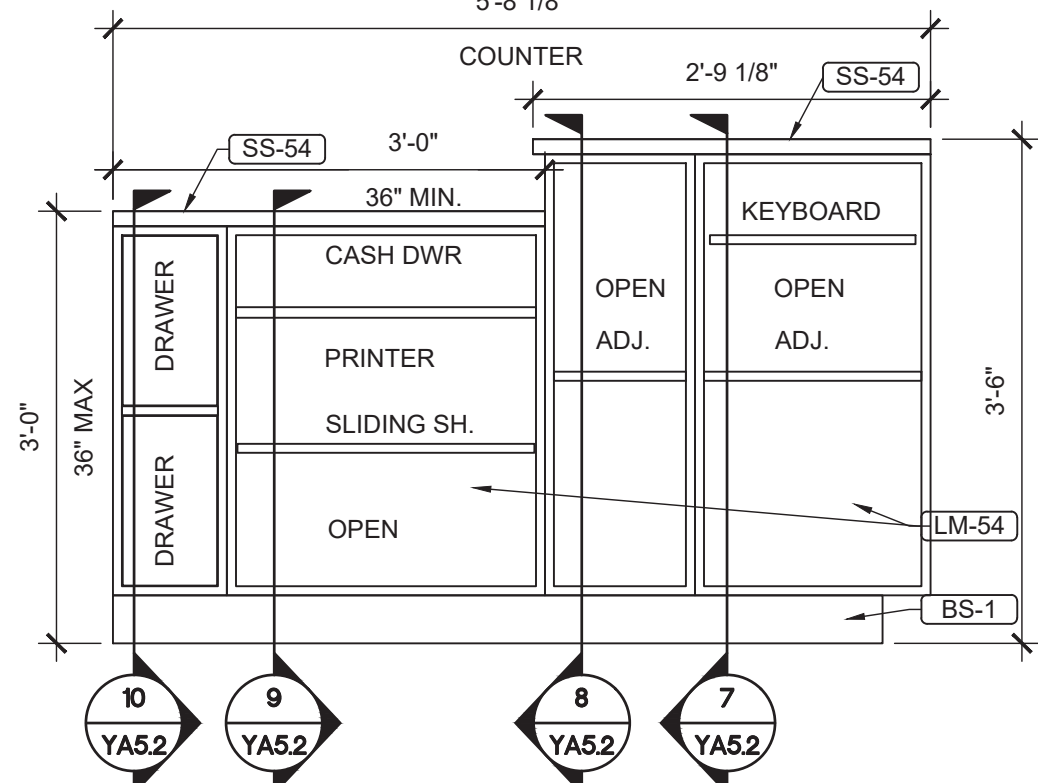
9 COUNTER SECTION
Scale: 3/4" = 1'-0"



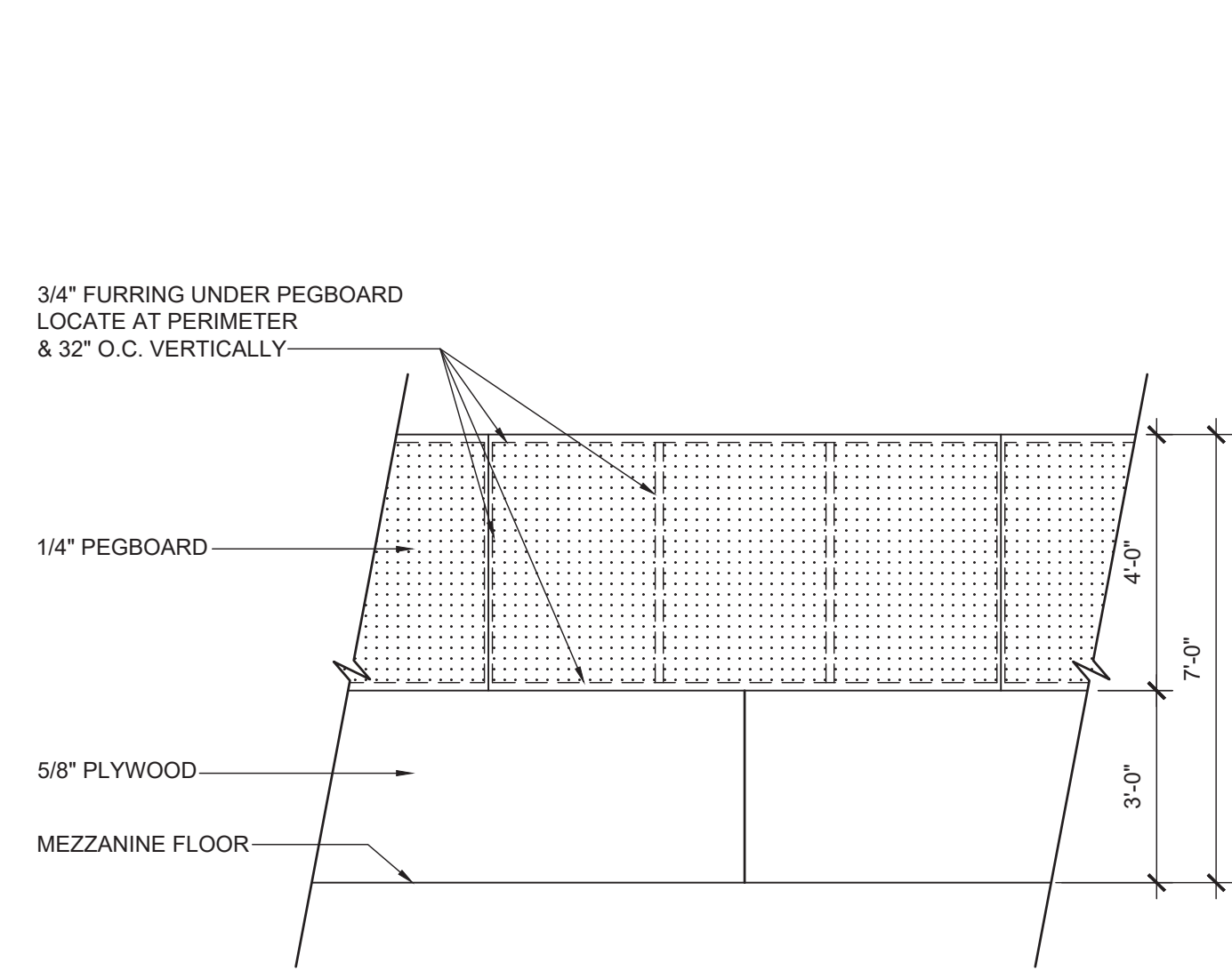
8 COUNTER SECTION
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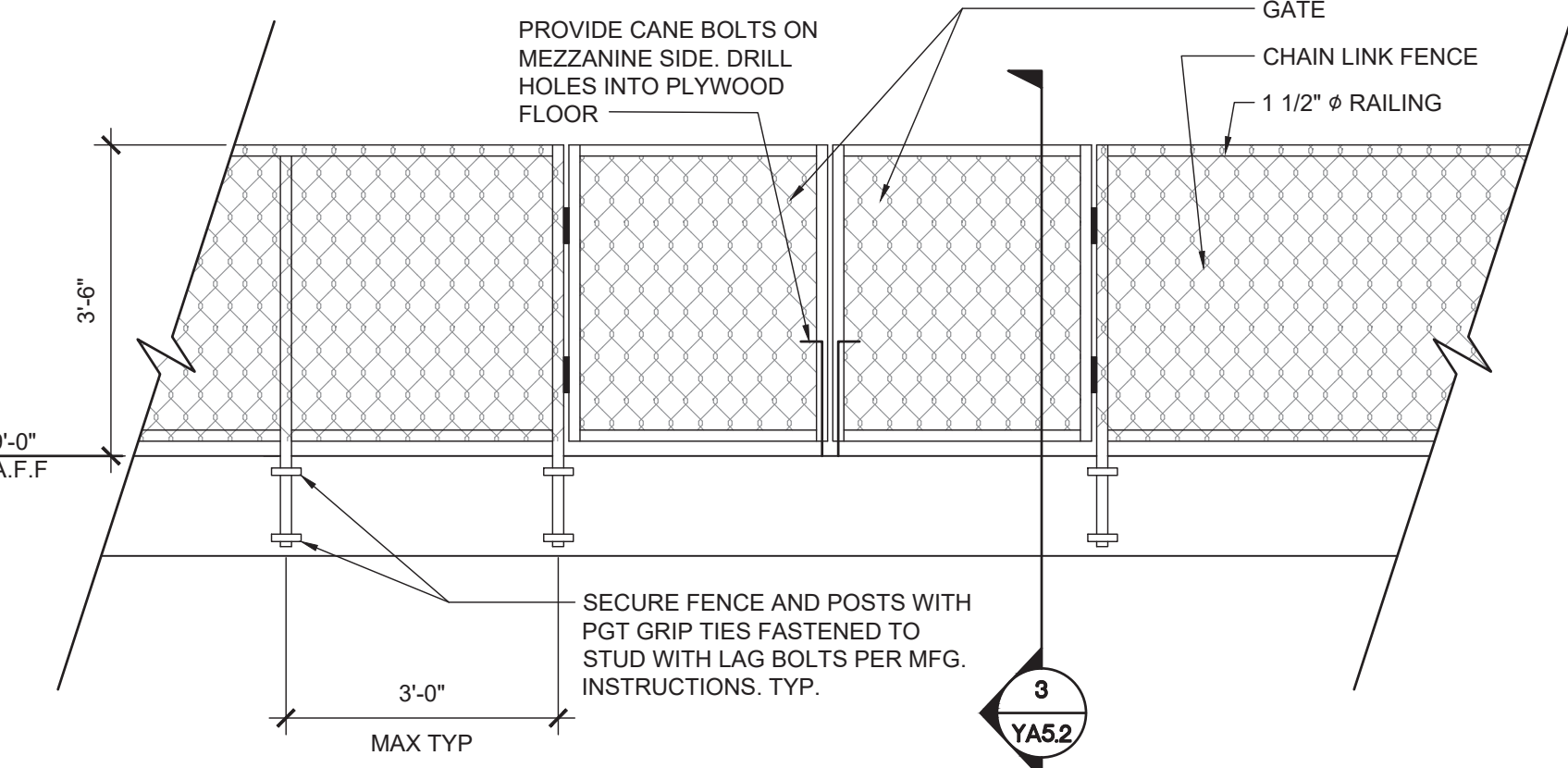
7 COUNTER SECTION
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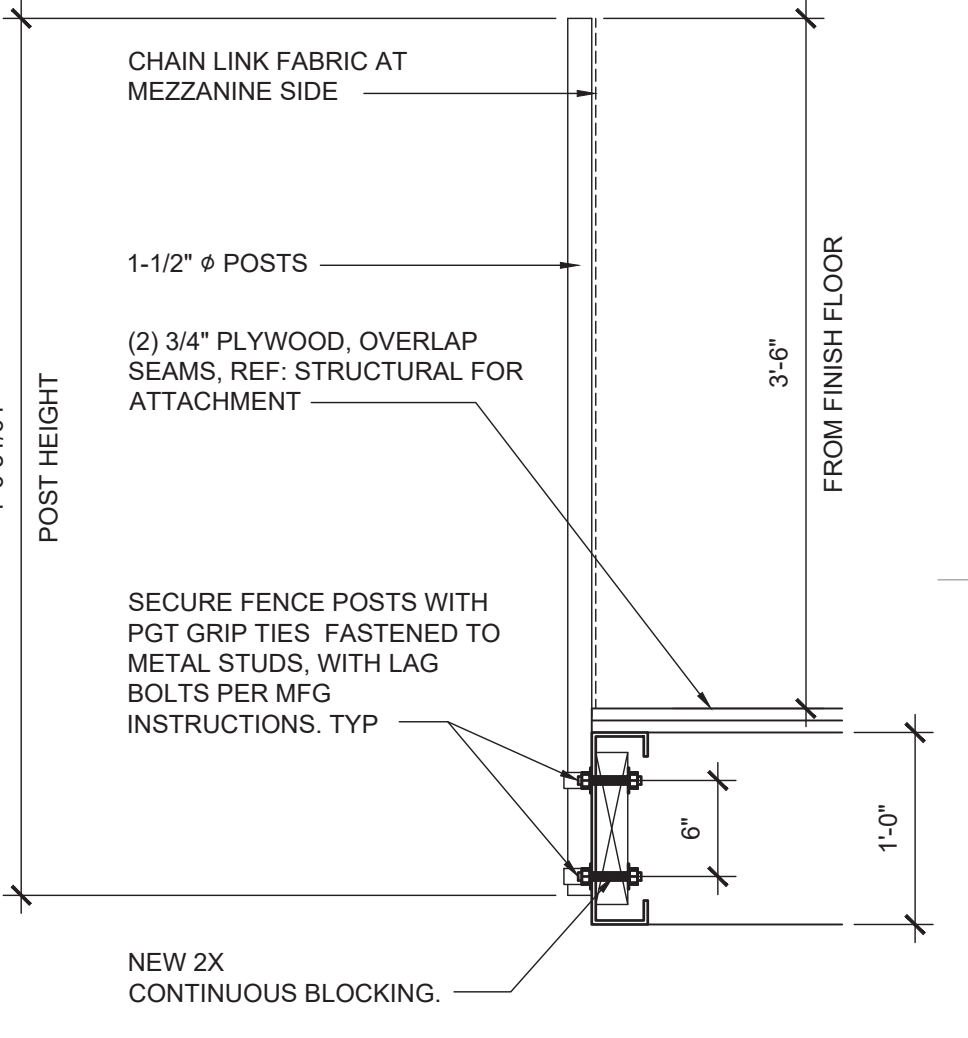
6 LOBBY COUNTER ELEVATION
Scale: 3/4" = 1'-0"



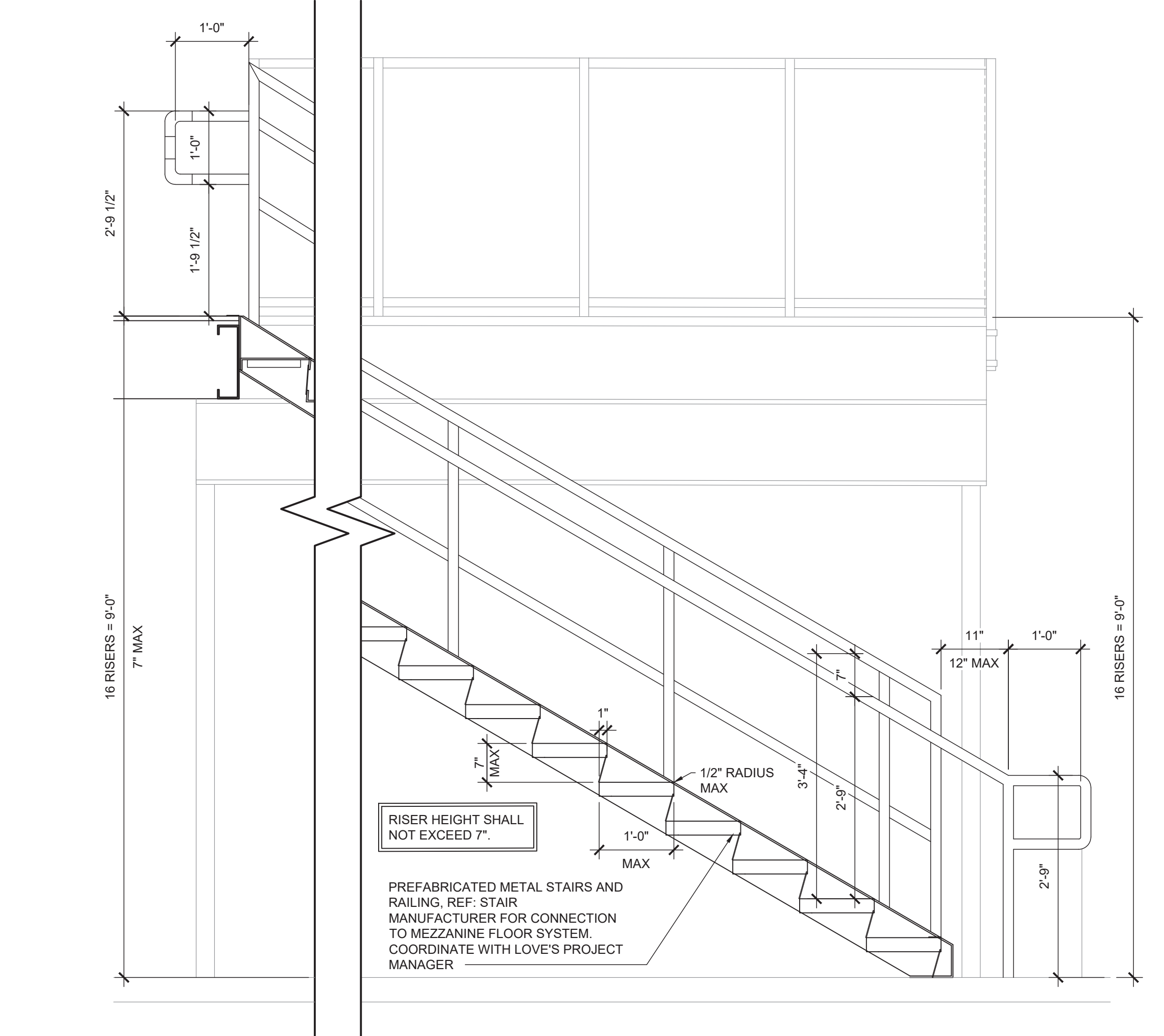
5 MEZZANINE ELEVATION
Scale: 3/8" = 1'-0"



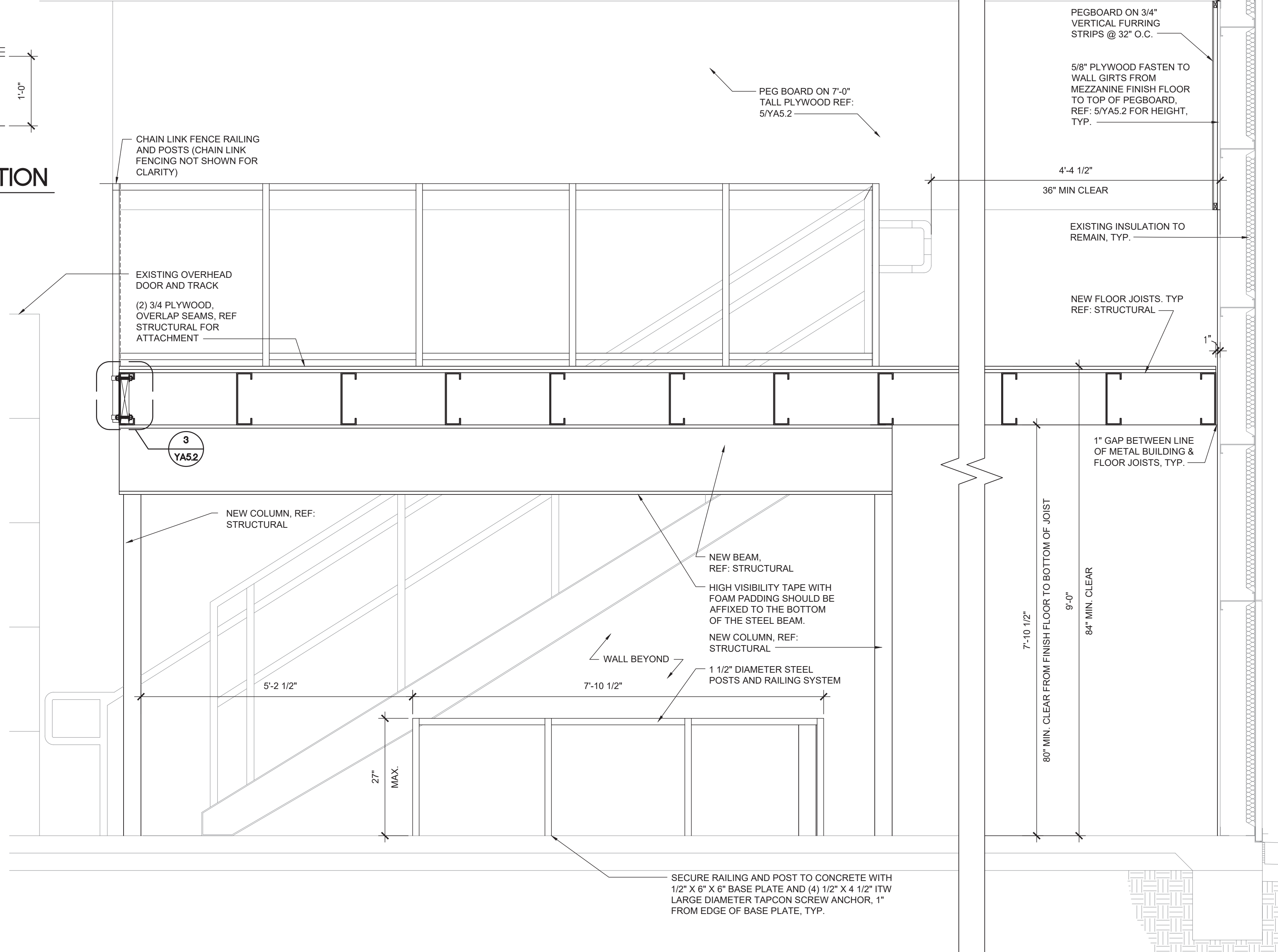
4 CHAIN-LINK RAIL ELEVATION
Scale: 1/2" = 1'-0"



3 CHAIN-LINK RAIL SECTION
Scale: 1" = 1'-0"



2 STAIR SECTION
Scale: 3/4" = 1'-0"



1 MEZZANINE SECTION
Scale: 3/4" = 1'-0"

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STORE NUMBER: 038
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MARSHALL, MI 49068
JOB NUMBER: 03-21-20336

ISSUE BLOCK

CHECKED BY: RAF
DRAWN BY: JDH
DOCUMENT DATE: 05/05/21

STATE OF MICHIGAN
JAMES EDWARD MANN
ARCHITECT
No. 1301066921
LICENSED ARCHITECT
2021.05.12 20:31:04-0500

SECTIONS, DETAILS & INTERIOR ELEVATIONS

SHEET: YA5.2

May 12, 2021 1:50:07pm - User: jplaine.howard
E:\3010521-20336 - Loves - Marshall, MI 33066-CD\0000 Architectural\172_YA5.2 SECTIONS AND ELEVATIONS.dwg

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REMODEL

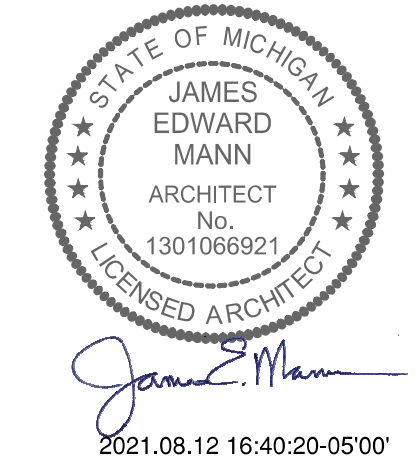
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18720 PARTELLO RD
MARSHALL, MI 49068

JOB NUMBER: 03-21-20356

ISSUE BLOCK

1	07/09/21	ADD 1

CHECKED BY: RAF
DRAWN BY: JDH
DOCUMENT DATE: 05/05/21



DOOR SCHEDULES, ELEVATIONS & DETAILS

SHEET: YA6

DOOR SCHEDULE

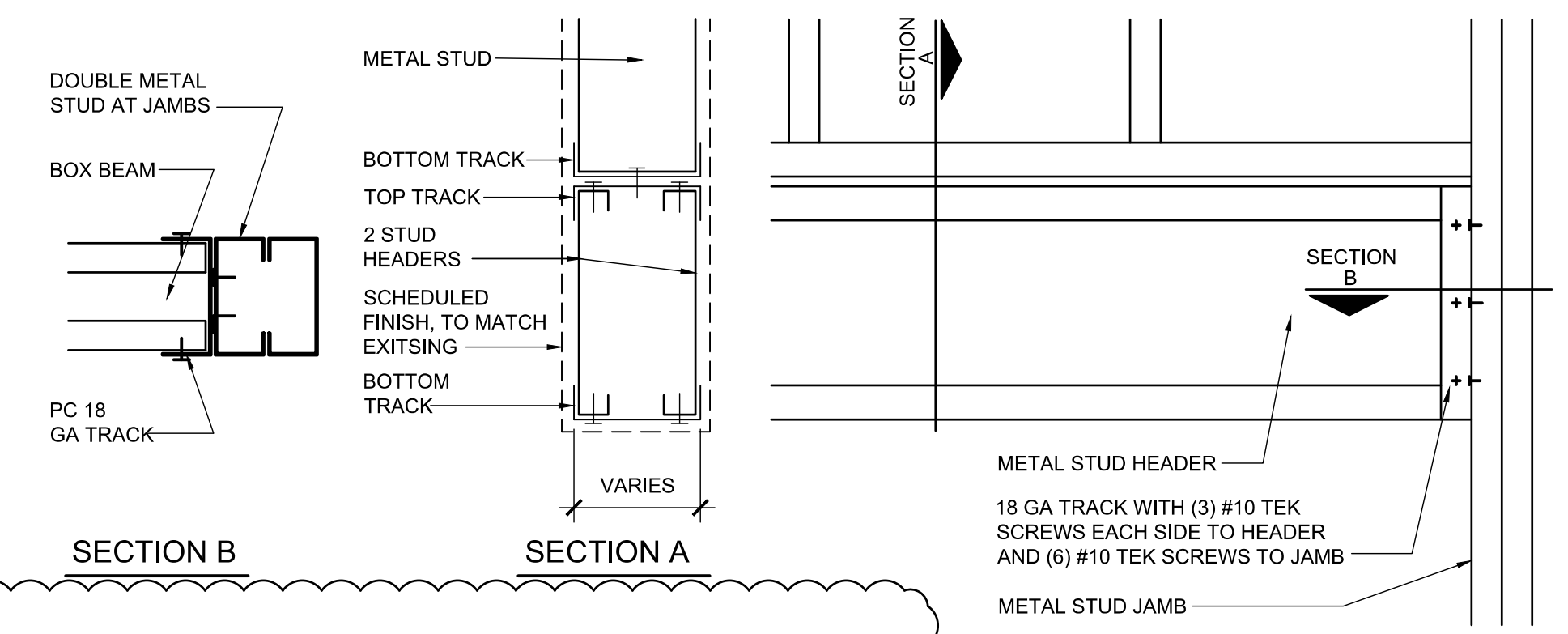
MARK	ROOM	DOOR TYPE	WIDTH	HEIGHT	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	GLAZING	HEAD	JAMB	THRESHOLD	REMARKS
701A	NEW SERVICE BAYS	H	16'-0"	16'-0"	---	PRE-FINISHED	---	---	WINDOW PORTS (4)	4YA6	5YA6	7YA6	NOTES 2 & 7
701B	NEW SERVICE BAYS	H	16'-0"	16'-0"	---	PRE-FINISHED	---	---	WINDOW PORTS (4)	4YA6	5YA6	7YA6	NOTES 2 & 7
701C	NEW SERVICE BAYS	B	3'-0"	7'-0"	HOLLOW METAL 16 GA (INSULATED)	PRE-FINISHED BRONZE	METAL	BRONZE	NONE	2YA6	3YA6	6YA6	NOTES 5 & 8
701D	NEW SERVICE BAYS	B	3'-0"	7'-0"	HOLLOW METAL 16 GA (INSULATED)	PRE-FINISHED BRONZE	METAL	BRONZE	NONE	2YA6	3YA6	6YA6	NOTES 5 & 8
701E	NEW SERVICE BAYS	H	16'-0"	16'-0"	---	PRE-FINISHED	---	---	WINDOW PORTS (4)	4YA6	5YA6	7YA6	NOTES 2 & 7
701F	NEW SERVICE BAYS	H	16'-0"	16'-0"	---	PRE-FINISHED	---	---	WINDOW PORTS (4)	4YA6	5YA6	7YA6	NOTES 2 & 7
701G	NEW SERVICE BAYS	B	3'-0"	7'-0"	HOLLOW METAL 16 GA (INSULATED)	PRE-FINISHED BRONZE	METAL	BRONZE	NONE	2YA6	3YA6	6YA6	NOTES 5 & 8
705A	NEW LOBBY	C	3'-0"	7'-0"	HOLLOW METAL 16 GA (INSULATED)	PRE-FINISHED BRONZE	METAL	BRONZE	HALF GLASS	2YA6	3YA6	6YA6	NOTES 3 & 8
705B	NEW LOBBY	J	3'-0"	3'-2"	PLASTIC/WOOD	PRE-FINISHED	---	---	---	---	---	---	PRE-FINISHED ATTACHMENTS BY GC DOUBLE-ACTING CAFE DOOR. INSTALL PER MANUFACTURER'S RECOMMENDATION
707A	NEW MEZZANINE	K	(PR) 3'-0"	3'-6"	CHAIN LINK	---	---	---	---	---	---	---	---
710A	REMODELED SERVICE BAY	H	16'-0"	16'-0"	---	PRE-FINISHED	---	---	WINDOW PORTS (4)	4YA6	5YA6	7YA6	NOTES 2 & 7
710B	REMODELED SERVICE BAY	B	3'-0"	7'-0"	HOLLOW METAL 16 GA (INSULATED)	PRE-FINISHED BRONZE	METAL	BRONZE	NONE	2YA6	3YA6	6YA6	NOTES 5 & 8
710C	REMODELED SERVICE BAY	B	3'-0"	7'-0"	HOLLOW METAL 16 GA (INSULATED)	PRE-FINISHED BRONZE	METAL	BRONZE	NONE	2YA6	3YA6	6YA6	NOTES 5 & 8
710D	REMODELED SERVICE BAY	H	16'-0"	16'-0"	---	PRE-FINISHED	---	---	WINDOW PORTS (4)	4YA6	5YA6	7YA6	NOTES 2 & 7

NOTES:

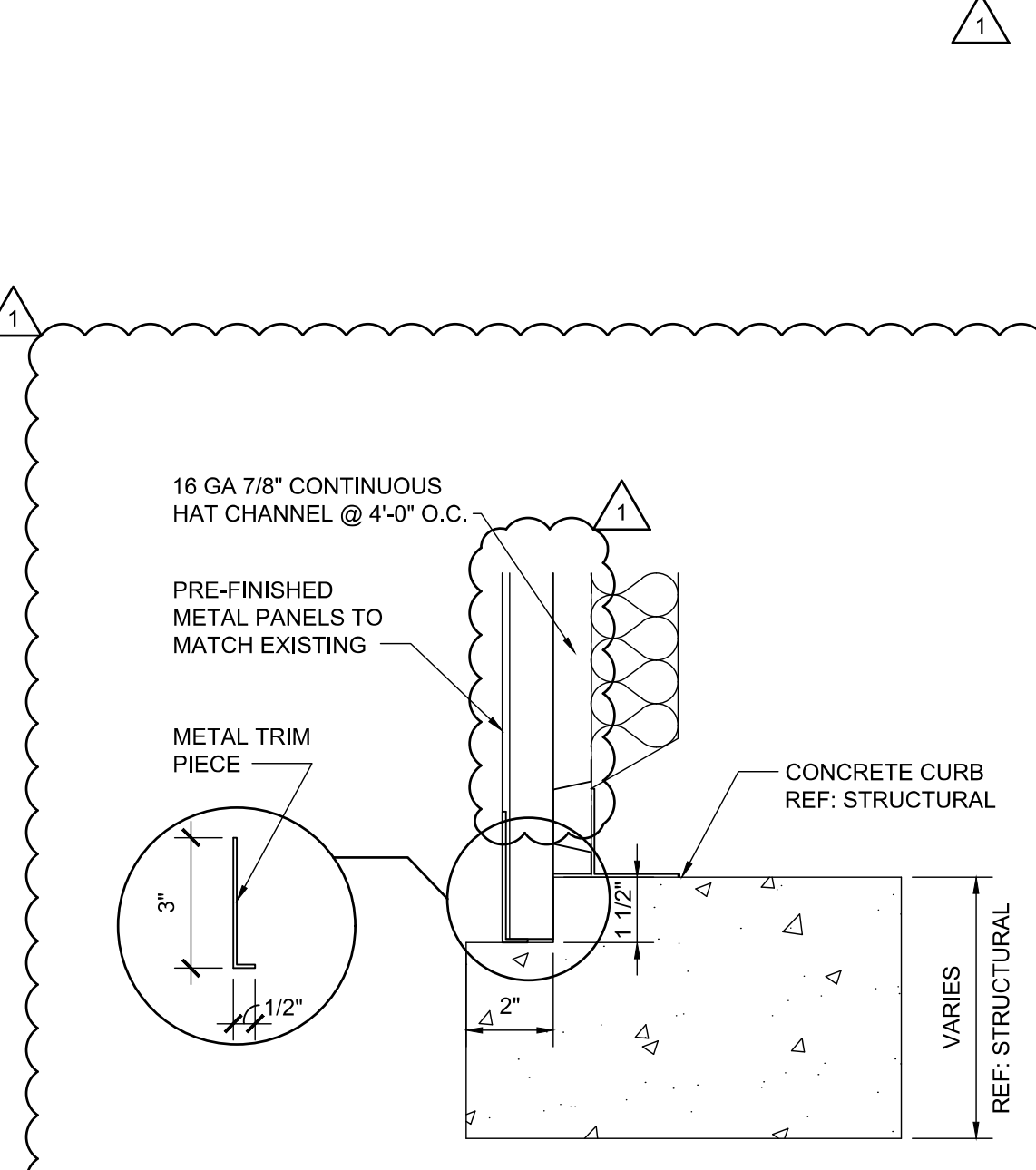
- "CORNELL" ROLLING FIRE DOOR ERC-10, 3-HOUR RATED, WITH ELECTRIC OPERATOR, PROVIDED & INSTALLED BY GC.
- "CLOPAY" OVERHEAD DOOR TO HAVE ELECTRIC OPERATOR, PROVIDED AND INSTALLED BY GC.
- DOOR AND GLASS TO BE PROVIDED BY GC.
- "CORNELL" ROLLING FIRE DOOR, ERC-10, 3-HOUR RATED WITH HAND CRANK OPERATOR, PROVIDED & INSTALLED BY GC.
- ALL DOORS TO BE PROVIDED AND INSTALLED BY GC, UNO.
- ALUMINUM STOREFRONT DOOR PROVIDED AND INSTALLED BY GC.
- OWNER TO PROVIDE GC TO INSTALL VINYL DOOR NUMBERS ON OVERHEAD ELECTRIC OPERATOR.
- EGRESS DOORS SHALL BE READILY OPENABLE WITH LEVER STYLE HANDLE FROM THE EGRESS SIDE WITHOUT USE OF A KEY OR SPECIAL KNOWLEDGE.
- PAIR OF 3'-0"x7'-0"x1 3/4" DOORS.
- A READILY VISIBLE DURABLE SIGN TO BE POSTED ON THE EGRESS SIDE ON OR ADJACENT TO THE DOOR STATING: "THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS OCCUPIED." THE SIGN SHALL BE IN LETTERS 1 INCH HIGH ON A CONTRASTING BACKGROUND.

INTERIOR NON-LOAD BEARING PARTITION HEADER SCHEDULE

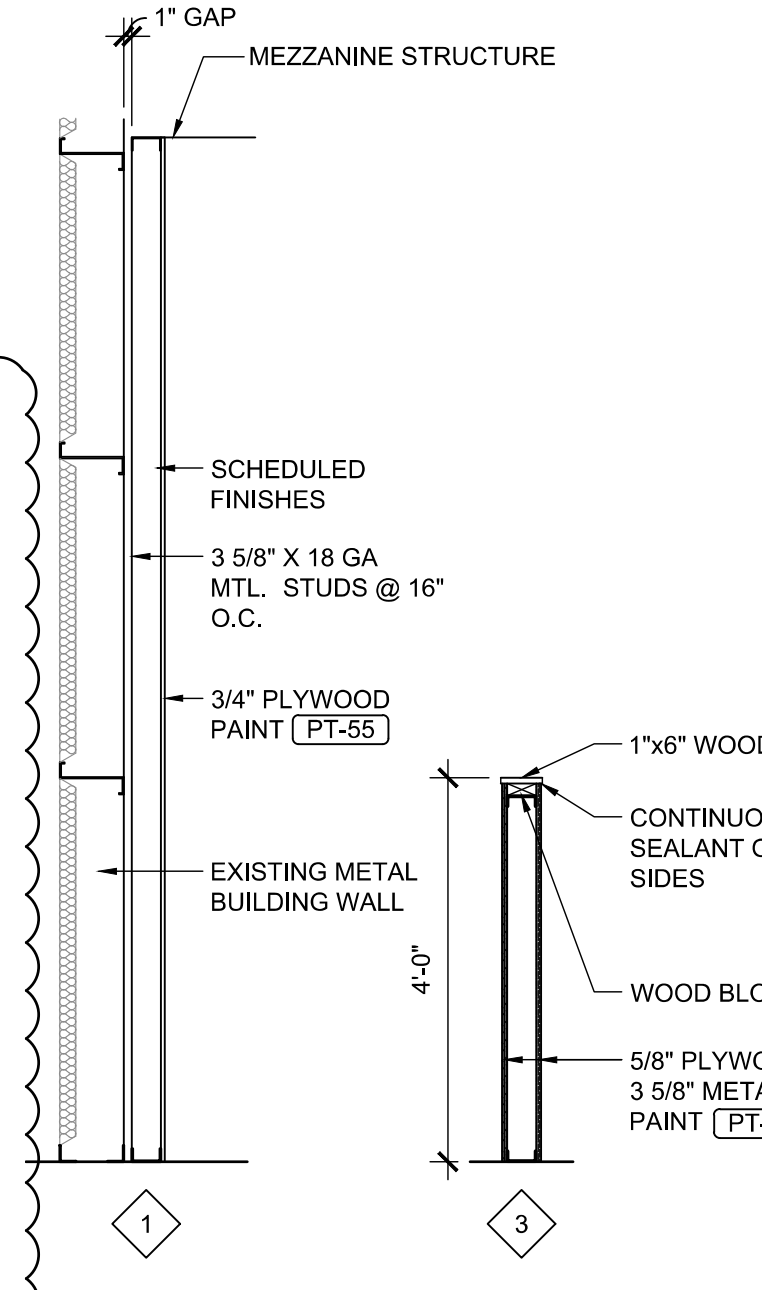
HEADER LENGTH	HEADER MEMBERS	MINIMUM EFFECTIVE PROPERTIES PER STUD
2' TO 6'	(2) 6" x 18 GAUGE	Ix = 2.042 Sx = 0.670
6' TO 8'	(2) 6" x 16 GAUGE	Ix = 2.518 Sx = 0.839
8' TO 10'	(2) 6" x 14 GAUGE	Ix = 3.094 Sx = 1.031
10' TO 12'	(2) 8" x 18 GAUGE	Ix = 4.134 Sx = 1.033
12' TO 14'	(2) 8" x 16 GAUGE	Ix = 5.110 Sx = 1.277
14' TO 16'	(2) 8" x 14 GAUGE	Ix = 6.303 Sx = 1.576
16' TO 18'	(2) 10" x 14 GAUGE	Ix = 12.325 Sx = 2.456
18' TO 26'	(2) 12" x 16 GAUGE	Ix = 15.730 Sx = 2.334
27' TO 30'	(2) 12" x 14 GAUGE	Ix = 19.518 Sx = 3.253



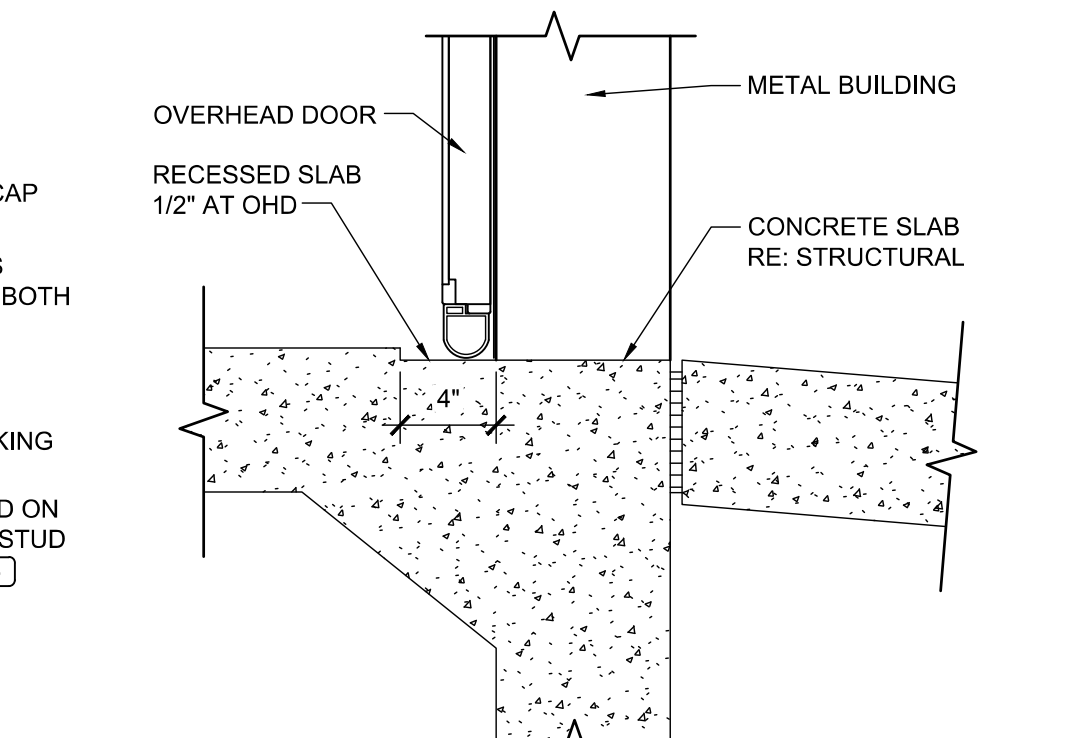
10 HEADER CONNECTION DETAIL
SCALE: 1 1/2" = 1'-0"



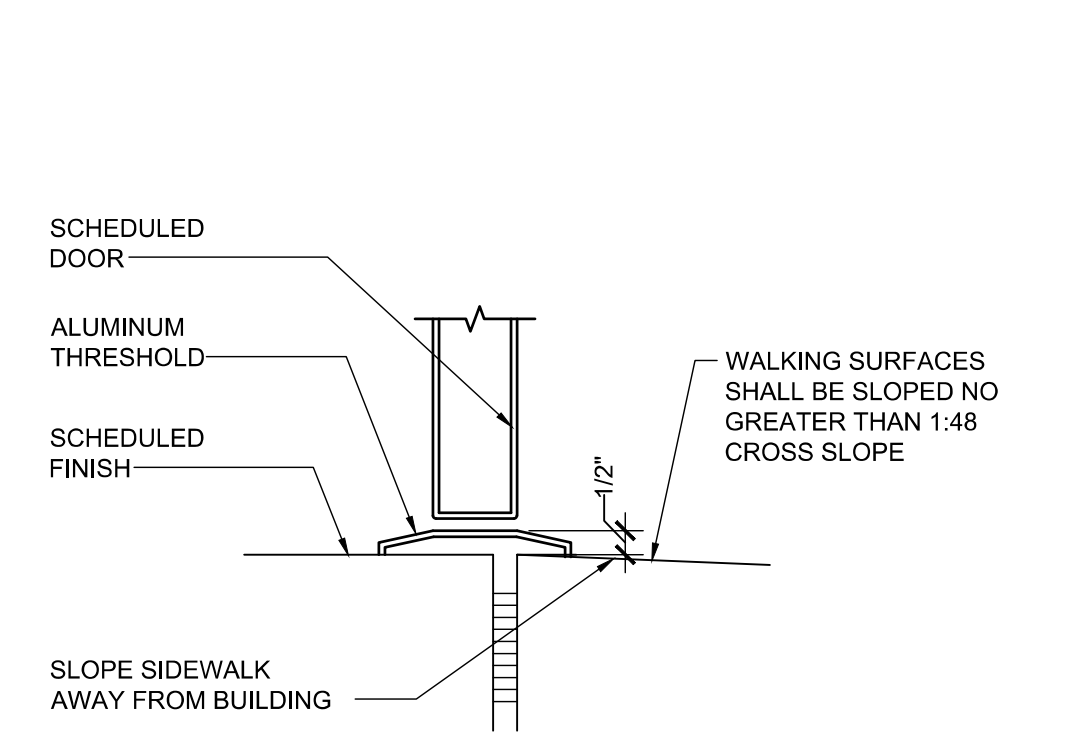
9 BASE TRIM DETAIL
SCALE: 3" = 1'-0"



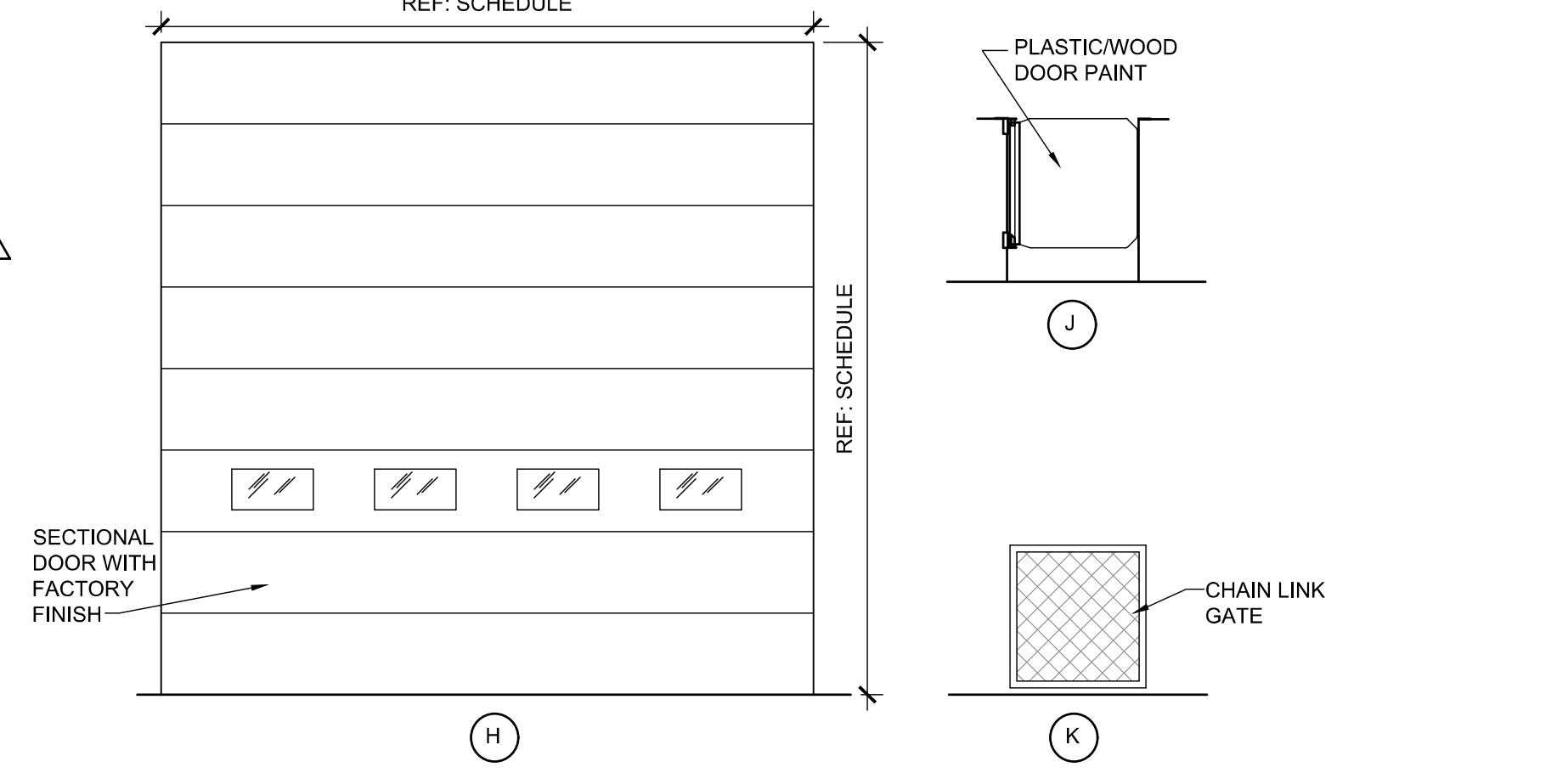
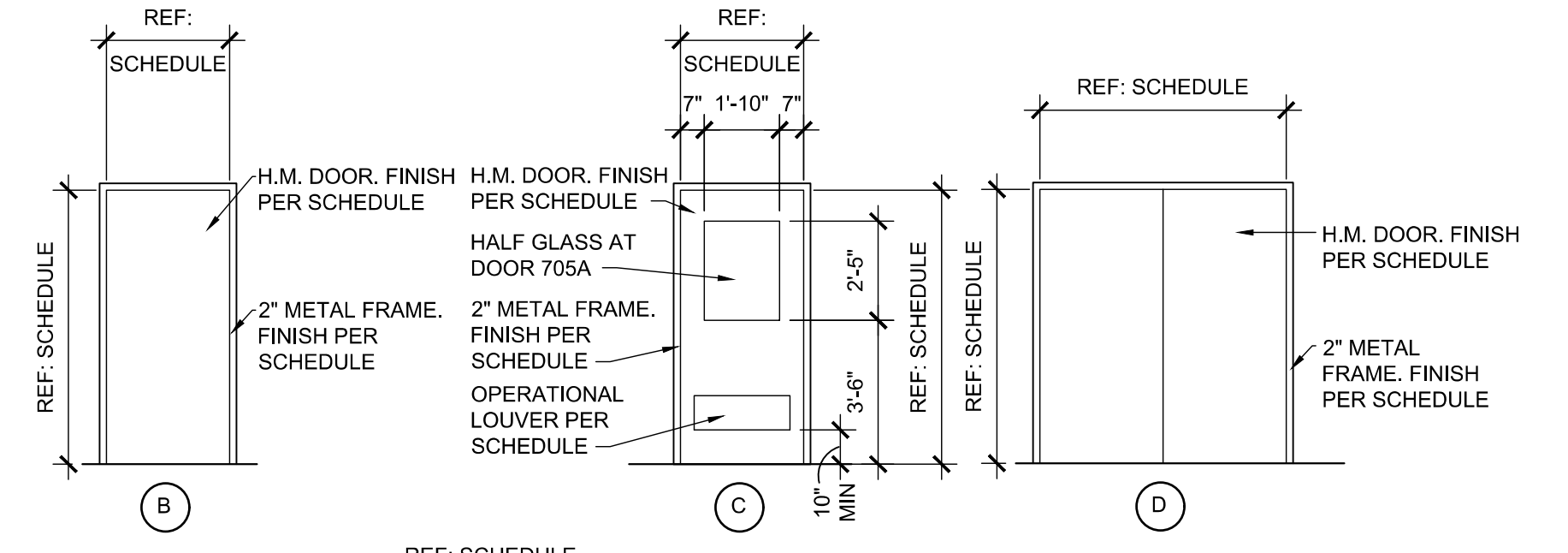
8 PARTITION TYPE
SCALE: 1/2" = 1'-0"



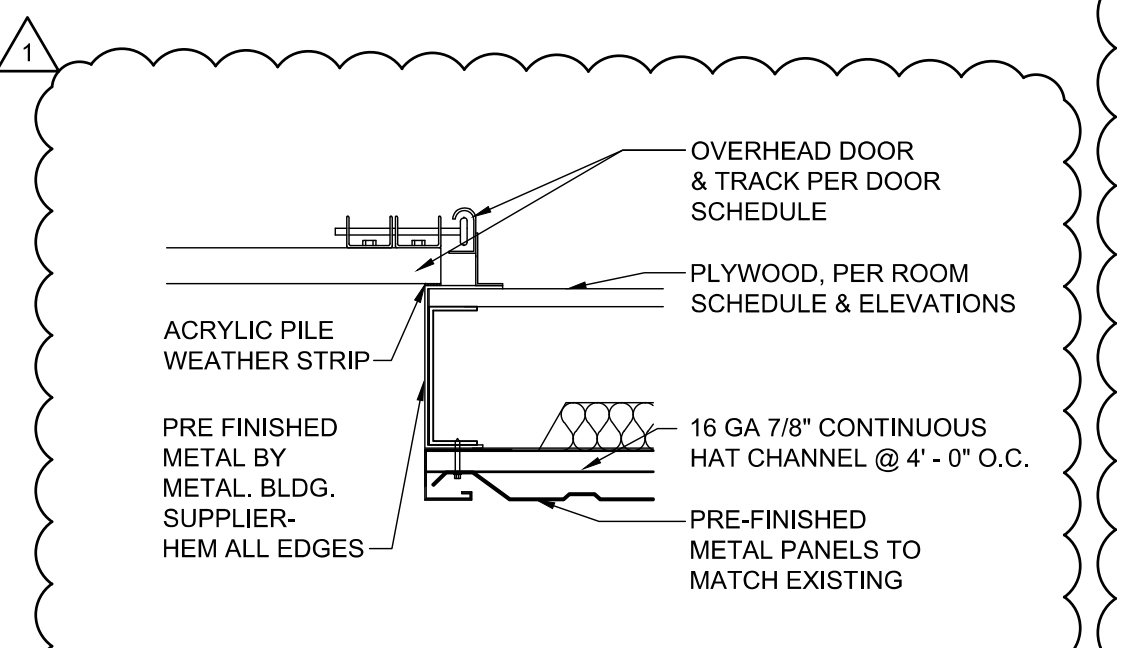
7 OHD THRESHOLD DETAIL
SCALE: 1 1/2" = 1'-0"



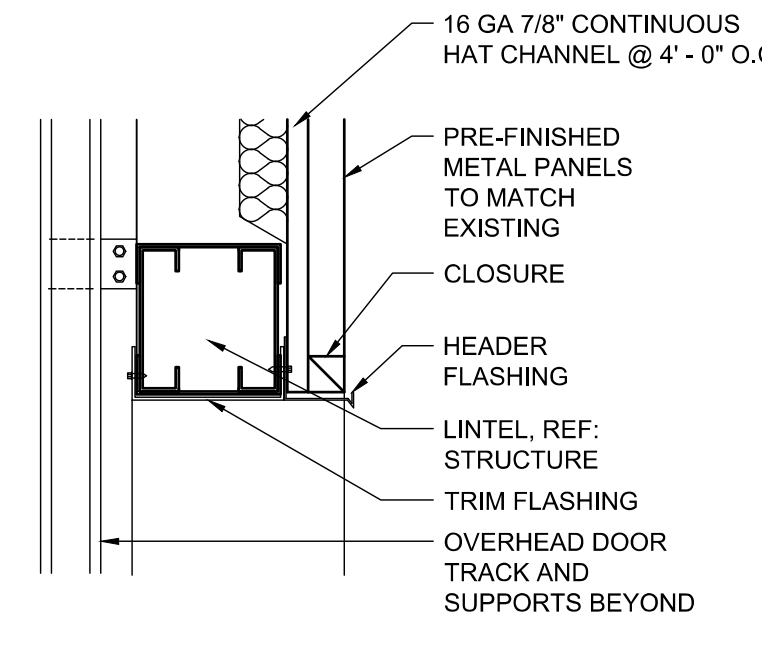
6 THRESHOLD DETAIL
SCALE: 3" = 1'-0"



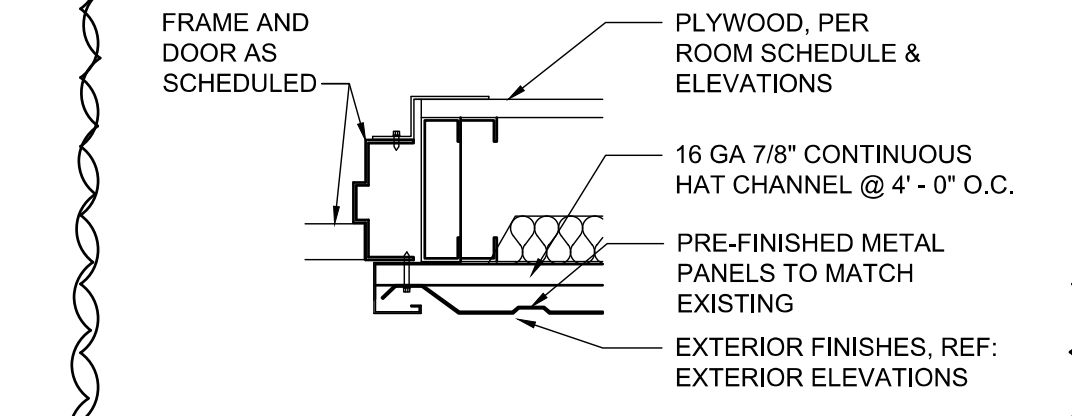
1 DOOR ELEVATIONS
SCALE: 1/4" = 1'-0"



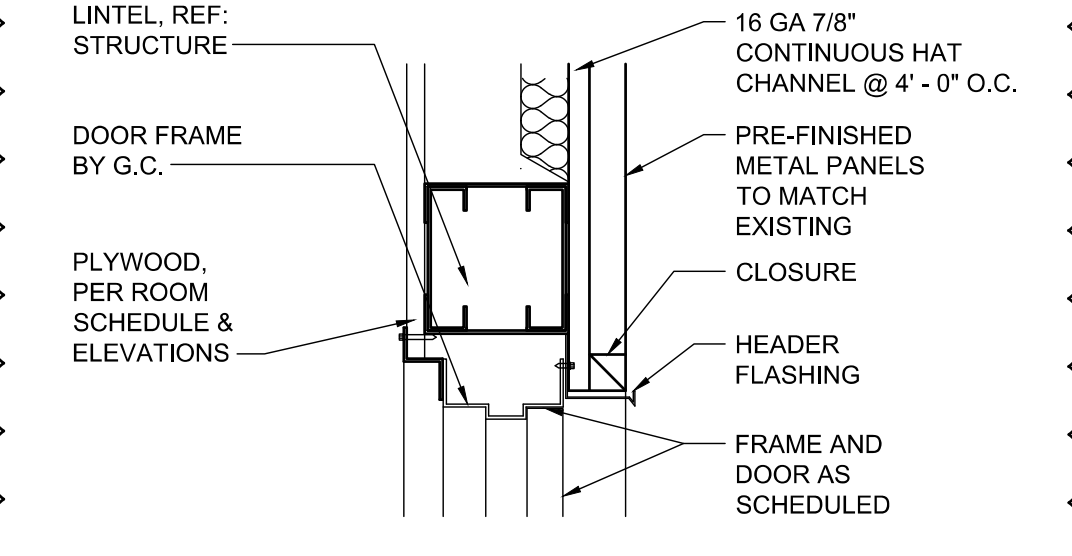
5 OHD JAMB DETAIL
SCALE: 1 1/2" = 1'-0"



4 OHD HEAD DETAIL
SCALE: 1 1/2" = 1'-0"



3 JAMB DETAIL
SCALE: 1 1/2" = 1'-0"



2 HEAD DETAIL
SCALE: 1 1/2" = 1'-0"

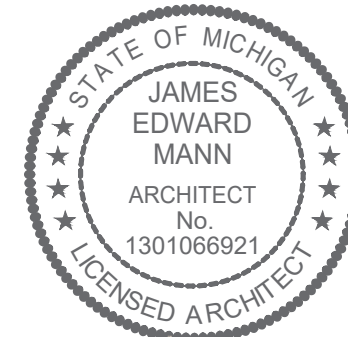
Aug 12, 2021 11:51:77am - User: lauren.bennett
E:\30352-1-20356 - Evans - Marshall, MI 33066-CD0000 Architectural 160 148 DOOR SCHEDULES, ELEVATIONS & DETAILS.dwg

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18720 PARTELLO RD
MARSHALL, MI 49068
JOB NUMBER: 03-21-20336

ISSUE BLOCK

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DRAWN BY: JDH
DOCUMENT DATE: 05/05/21



2021.05.12 20:31:10-0500'

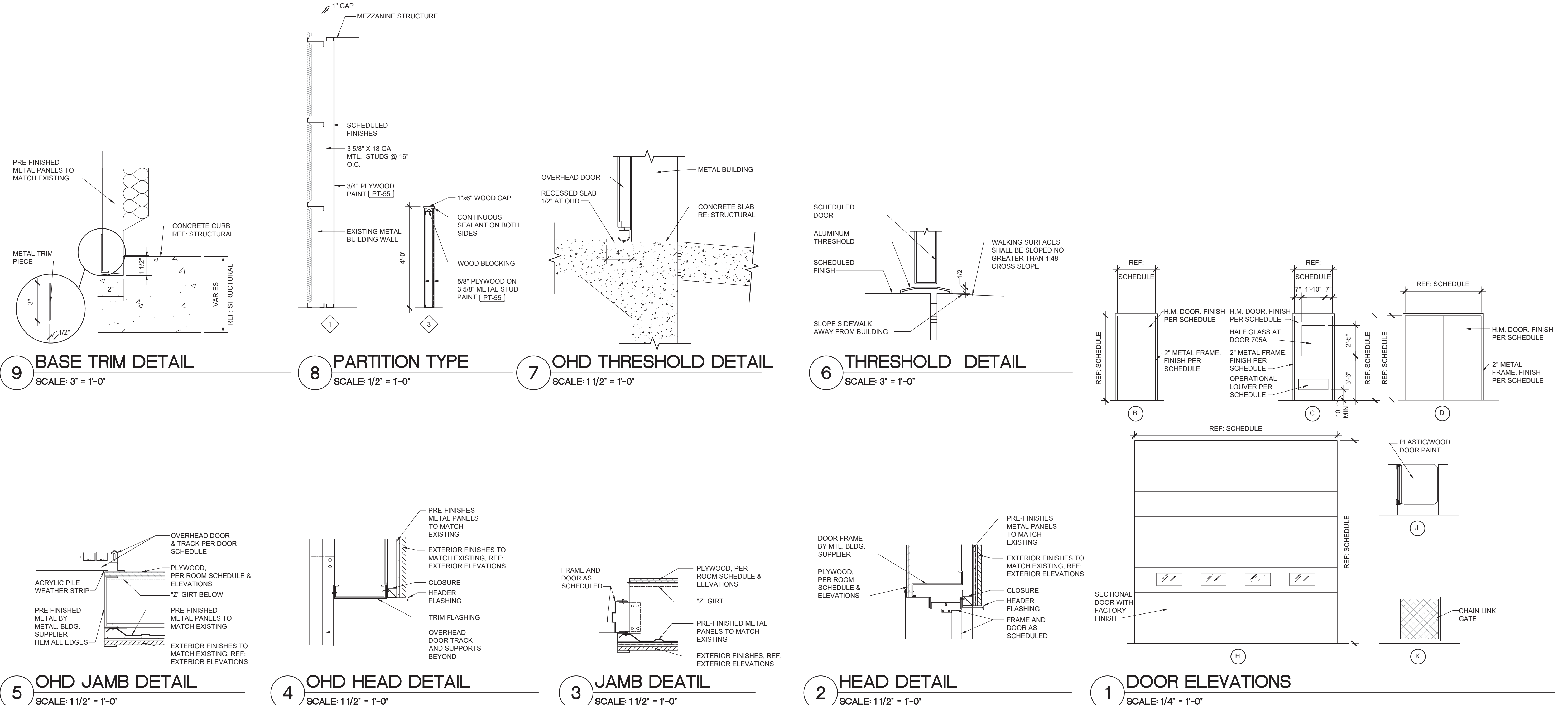
DOOR SCHEDULES, ELEVATIONS & DETAILS

SHEET: YA6

DOOR SCHEDULE

MARK	ROOM	DOOR TYPE	WIDTH	HEIGHT	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	GLAZING	HEAD	JAMB	THRESHOLD	REMARKS
701A	NEW SERVICE BAYS	H	16'-0"	16'-0"	---	PRE-FINISHED	---	---	WINDOW PORTS (4)	4/YA6	5/YA6	7/YA6	NOTES 2 & 7
701B	NEW SERVICE BAYS	H	16'-0"	16'-0"	---	PRE-FINISHED	---	---	WINDOW PORTS (4)	4/YA6	5/YA6	7/YA6	NOTES 2 & 7
701C	NEW SERVICE BAYS	B	3'-0"	7'-0"	HOLLOW METAL 16 GA (INSULATED)	PRE-FINISHED BRONZE	METAL	DARK BRONZE	NONE	2/YA6	3/YA6	6/YA6	NOTES 5 & 8
701D	NEW SERVICE BAYS	B	3'-0"	7'-0"	HOLLOW METAL 16 GA (INSULATED)	PRE-FINISHED BRONZE	METAL	DARK BRONZE	NONE	2/YA6	3/YA6	6/YA6	NOTES 5 & 8
701E	NEW SERVICE BAYS	H	16'-0"	16'-0"	---	PRE-FINISHED	---	---	WINDOW PORTS (4)	4/YA6	5/YA6	7/YA6	NOTES 2 & 7
701F	NEW SERVICE BAYS	H	16'-0"	16'-0"	---	PRE-FINISHED	---	---	WINDOW PORTS (4)	4/YA6	5/YA6	7/YA6	NOTES 2 & 7
701G	NEW SERVICE BAYS	B	3'-0"	7'-0"	HOLLOW METAL 16 GA (INSULATED)	PRE-FINISHED BRONZE	METAL	DARK BRONZE	NONE	2/YA6	3/YA6	6/YA6	NOTES 5 & 8
705A	NEW LOBBY	C	3'-0"	7'-0"	HOLLOW METAL 16 GA (INSULATED)	PRE-FINISHED BRONZE	METAL	DARK BRONZE	HALF GLASS	2/YA6	3/YA6	6/YA6	NOTES 3 & 8
705B	NEW LOBBY	J	3'-0"	3'-2"	PLASTIC/WOOD	PRE-FINISHED	---	---	---	---	---	---	---
707A	NEW MEZZANINE	K	(PR) 3'-0"	3'-6"	CHAIN LINK	---	---	---	---	---	---	---	---
710A	REMODELED SERVICE BAY	H	16'-0"	16'-0"	---	PRE-FINISHED	---	---	WINDOW PORTS (4)	4/YA6	5/YA6	7/YA6	NOTES 2 & 7
710B	REMODELED SERVICE BAY	B	3'-0"	7'-0"	HOLLOW METAL 16 GA (INSULATED)	PRE-FINISHED BRONZE	METAL	DARK BRONZE	NONE	2/YA6	3/YA6	6/YA6	NOTES 5 & 8
710C	REMODELED SERVICE BAY	B	3'-0"	7'-0"	HOLLOW METAL 16 GA (INSULATED)	PRE-FINISHED BRONZE	METAL	DARK BRONZE	NONE	2/YA6	3/YA6	6/YA6	NOTES 5 & 8
710D	REMODELED SERVICE BAY	H	16'-0"	16'-0"	---	PRE-FINISHED	---	---	WINDOW PORTS (4)	4/YA6	5/YA6	7/YA6	NOTES 2 & 7

- NOTES:**
- "CORNELL" ROLLING FIRE DOOR ERC-10, 3-HOUR RATED, WITH ELECTRIC OPERATOR, PROVIDED & INSTALLED BY MBM.
 - "CLOPAY" OVERHEAD DOOR TO HAVE ELECTRIC OPERATOR, PROVIDED AND INSTALLED BY MBM.
 - DOOR AND GLASS TO BE PROVIDED BY AND INSTALLED BY GC.
 - "CORNELL" ROLLING FIRE DOOR, ERC-10, 3-HOUR RATED WITH HAND CRANK OPERATOR, PROVIDED & INSTALLED BY MBM.
 - ALL DOORS TO BE PROVIDED AND INSTALLED BY GC UNO.
 - ALUMINUM STOREFRONT DOOR PROVIDED AND INSTALLED BY GC.
 - OWNER TO PROVIDE GC TO INSTALL VINYL DOOR NUMBERS ON OVERHEAD ELECTRIC OPERATOR.
 - EGRESS DOORS SHALL BE READILY OPENABLE WITH LEVER STYLE HANDLE FROM THE EGRESS SIDE WITHOUT USE OF A KEY OR SPECIAL KNOWLEDGE.
 - PAIR OF 3'-0"x7'-0"x1 3/4" DOORS.
 - A READILY VISIBLE DURABLE SIGN TO BE POSTED ON THE EGRESS SIDE ON OR ADJACENT TO THE DOOR STATING: "THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS OCCUPIED." THE SIGN SHALL BE IN LETTERS 1 INCH HIGH ON A CONTRASTING BACKGROUND.



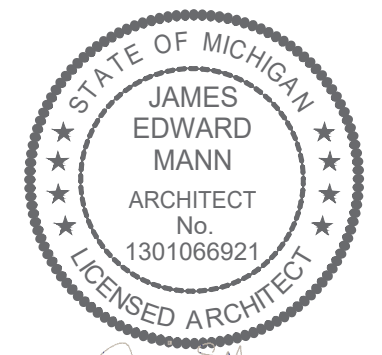
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18720 MARTELLO RD
MARSHALL, MI 48908
JOB NUMBER: 03-21-20336

ISSUE BLOCK

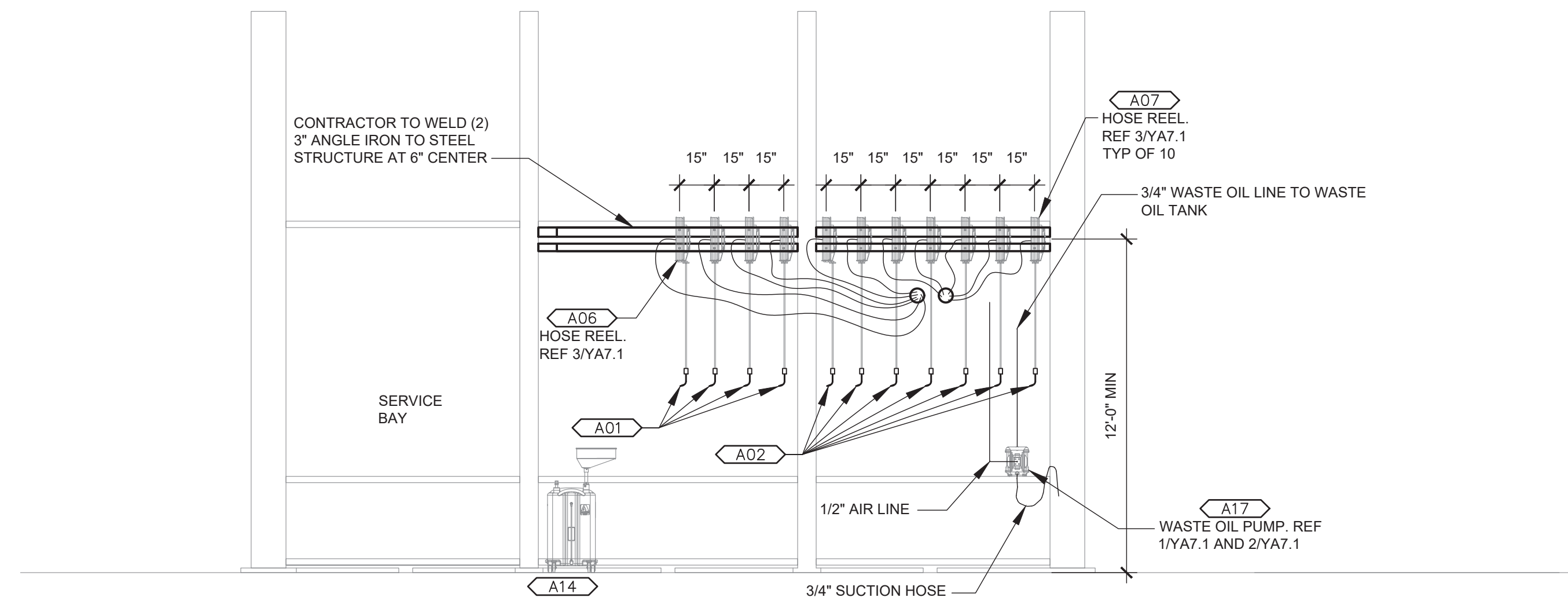
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DRAWN BY: JDH
DOCUMENT DATE: 05/05/21



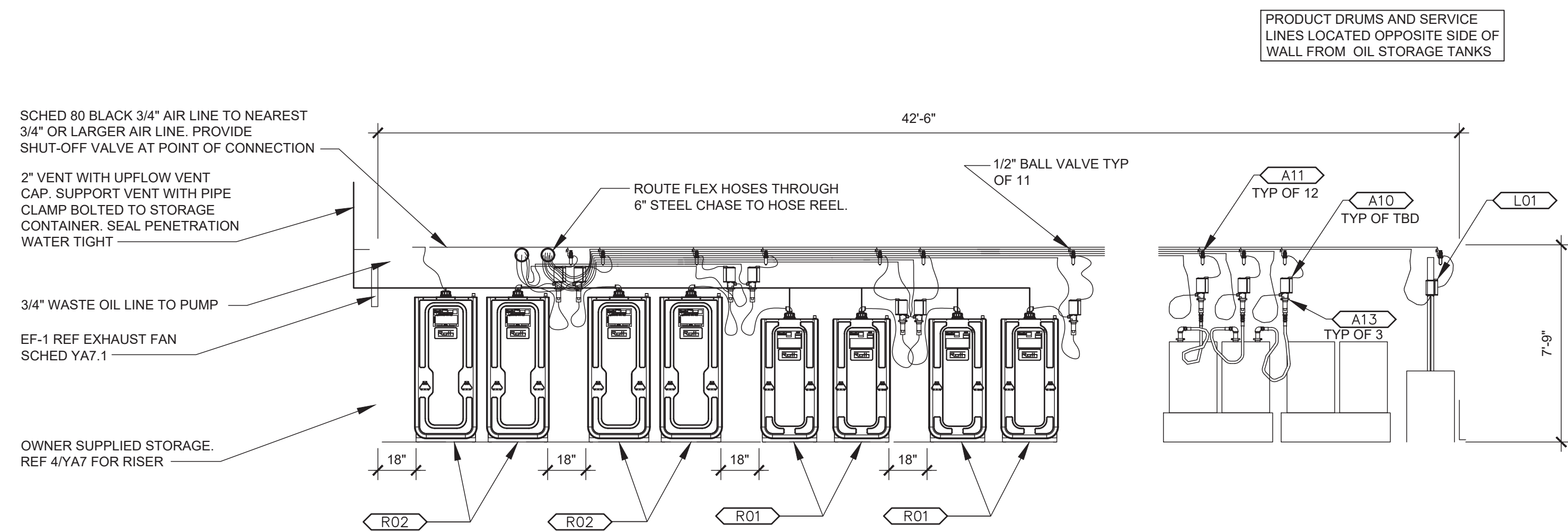
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TANK ELEVATIONS

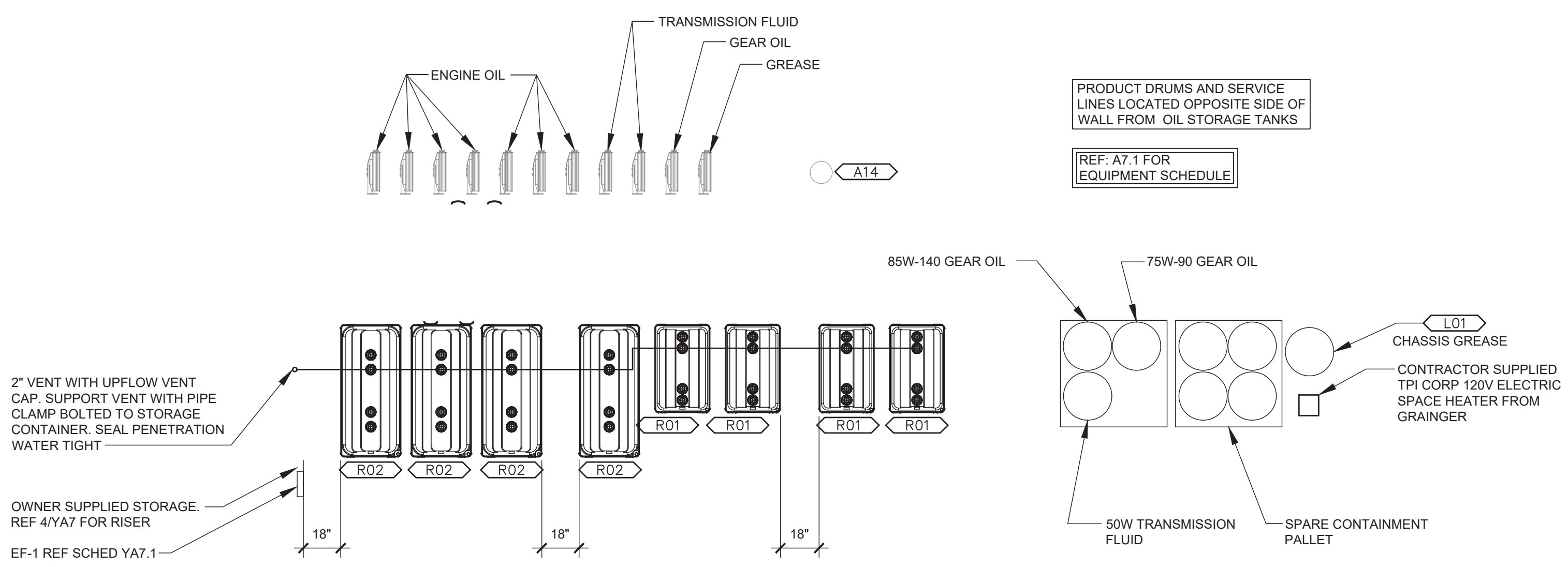
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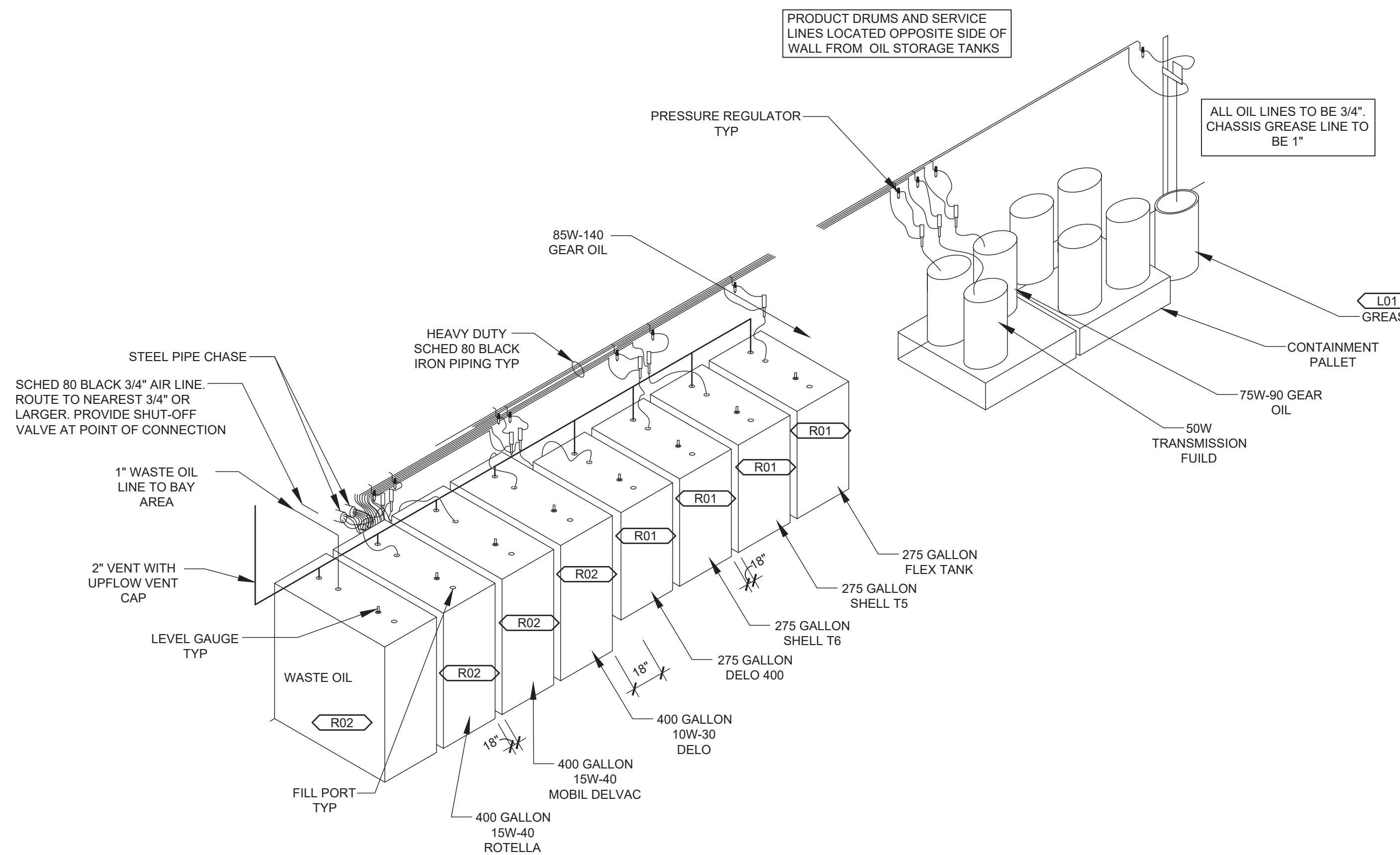
3 HOSE REEL ELEVATION (INSIDE SERVICE BAY)
SCALE: 1/4" = 1'-0"



2 STORAGE ELEVATION
SCALE: 1/4" = 1'-0"



1 STORAGE FLOOR PLAN
SCALE: 1/4" = 1'-0"



4 STORAGE RISER
SCALE: NTS

ITEM NO.	QTY.	DESCRIPTION	MODEL NO.	PART NO.	MANUFACTURER	PROVIDED BY	INSTALLED BY
A01	4	PRESET BATCH METER (PINTS)	XXXXXX	3640-2	DETERMINED BY LOVES	OWNER	GC
A02	7	ELECTRONIC METERED CONTROL VALVE (GALLONS)	XXXXXX	3671	DETERMINED BY LOVES	OWNER	GC
A03	10	HEAVY-DUTY HOSE REEL	7335-B	8078-D	DETERMINED BY LOVES	OWNER	GC
A04	10	CONNECTING HOSE	XXXXXX	317813-2	DETERMINED BY LOVES	OWNER	GC
A05	10	DELIVERY HOSE	XXXXXX	317813-50	DETERMINED BY LOVES	OWNER	GC
A06	1	HEAVY-DUTY HOSE REEL - FOR GREASE	7334-B	8078-T	DETERMINED BY LOVES	OWNER	GC
A07	1	CONNECTING HOSE- FOR GREASE	XXXXXX	317882-2	DETERMINED BY LOVES	OWNER	GC
A08	1	DELIVERY HOSE- FOR GREASE	XXXXXX	317870-50	DETERMINED BY LOVES	OWNER	GC
A09	1	HIGH-PRESSURE CONTROL VALVE-FOR GREASE	XXXXXX	6320-3	DETERMINED BY LOVES	OWNER	GC
A10	TBD	LOW-PRESSURE STUB PUMP	XXXXXX	9968	DETERMINED BY LOVES	OWNER	GC
A11	12	MINIATURE REGULATOR/FILTER/GAUGE	XXXXXX	7936	DETERMINED BY LOVES	OWNER	GC
A12	10	PRESSURE RELIEF VALVE	XXXXXX	339277-1	DETERMINED BY LOVES	OWNER	GC
A13	3	WALL BRACKETS	XXXXXX	325749	DETERMINED BY LOVES	OWNER	GC
A14	1	PORTABLE PRESSURIZED OIL DRAIN	XXXXXX	8587-1	DETERMINED BY LOVES	OWNER	GC
A15	1	PORTABLE USED FLUID DRAIN	XXXXXX	8592	DETERMINED BY LOVES	OWNER	GC
NOT USED							
A17	1	FLUID EVACUATION SYSTEM	XXXXXX	8595-B	DETERMINED BY LOVES	OWNER	GC
A18	1	FILTER/REGULATOR	XXXXXX	7508	DETERMINED BY LOVES	OWNER	GC
L01	1	4" PMV PUMP WITH HOIST	V450400HF	XXXXXX	DETERMINED BY LOVES	OWNER	GC
R01	4	DOUBLE-WALL OIL STORAGE TANKS - 275 GAL	DWT 1000L	XXXXXX	DETERMINED BY LOVES	OWNER	GC
R02	4	DOUBLE-WALL OIL STORAGE TANKS - 400 GAL	DWT 1500L	XXXXXX	DETERMINED BY LOVES	OWNER	GC

4 EQUIPMENT SCHEDULE

SCALE: NTS

EXHAUST FAN SCHEDULE					
MARK	AREA SERVED	MANUFACTURER MODEL # MOUNTING	CFM ESP	V/PHHZ HP OR W RPM	ACCESSORIES NOTES
EF-1	STORAGE	CONTINENTAL AMP 200-2-11 WALL	250 0.125"	115/1/60 74 W 2665	BD,DS 1,2,3

ACCESSORIES:
BD BACKDRAFT DAMPER
DS DISCONNECT SWITCH

NOTES:
1. MANUFACTURER AND MODEL NUMBER LISTED ABOVE REPRESENT A STANDARD. APPROVED MANUFACTURERS ARE COOK, CONTINENTAL, CARNES, ACME, PENN, GREENHECK, AND BROAN.
2. BOTTOM OF FAN SHALL BE MOUNTED AT 66" A.F.F.
3. FAN SHALL BE CONTINUOUS RUN. REF ELECTRICAL

HFA
Creative Solutions
Meaningful Places

HARRISON FRENCH & ASSOCIATES, LTD

1705 S. Walton Blvd., Suite 3
Bentonville, Arkansas 72712
t 479.273.7780
f 888.520.9685
www.hfa-ac.com

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REMODEL

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18720 PARKFIELD RD
MARSHALL, MI 49068

JOB NUMBER: 03-21-20336

ISSUE BLOCK

CHECKED BY: RAF
DRAWN BY: JDH
DOCUMENT DATE: 05/05/21

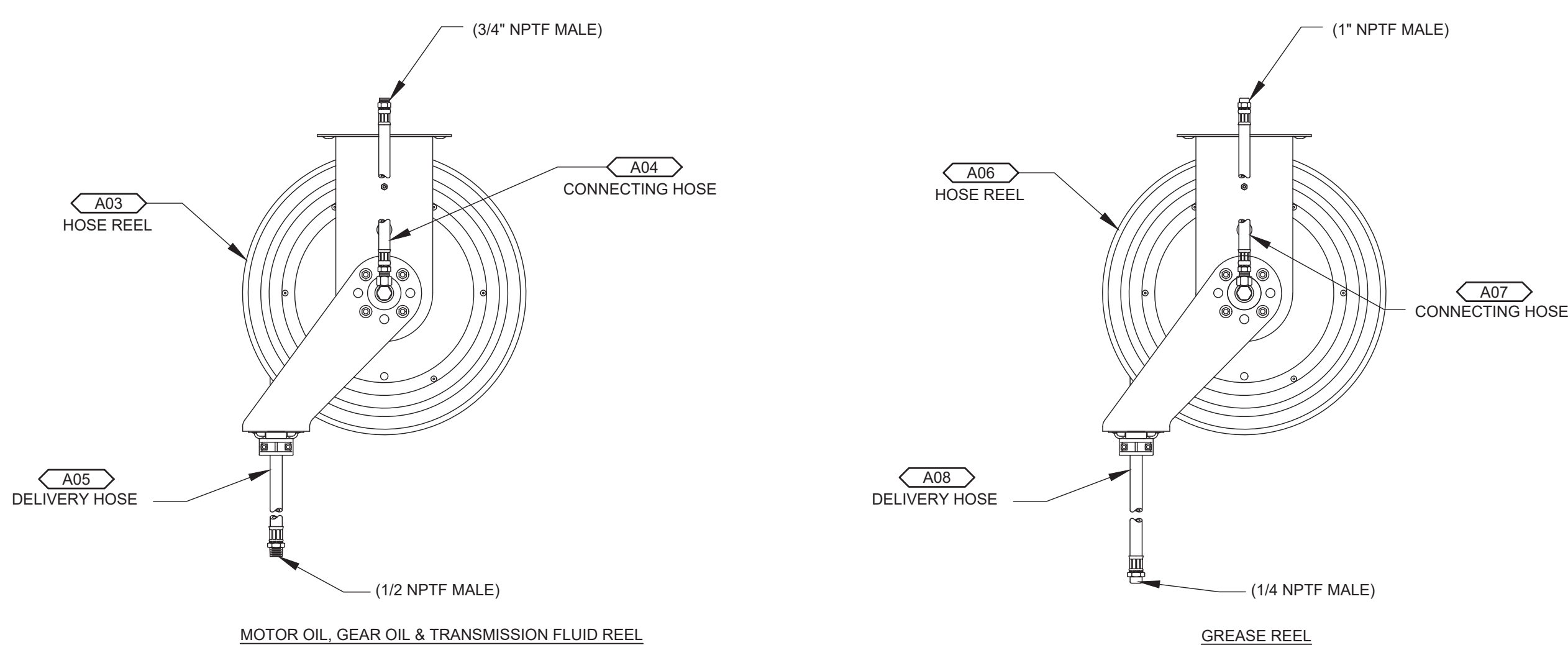
STATE OF MICHIGAN
JAMES EDWARD MANN
ARCHITECT
No. 1301066921
LICENSED ARCHITECT

2021.05.12 20:31:20-0500'

TANK DETAILS & SCHEDULES

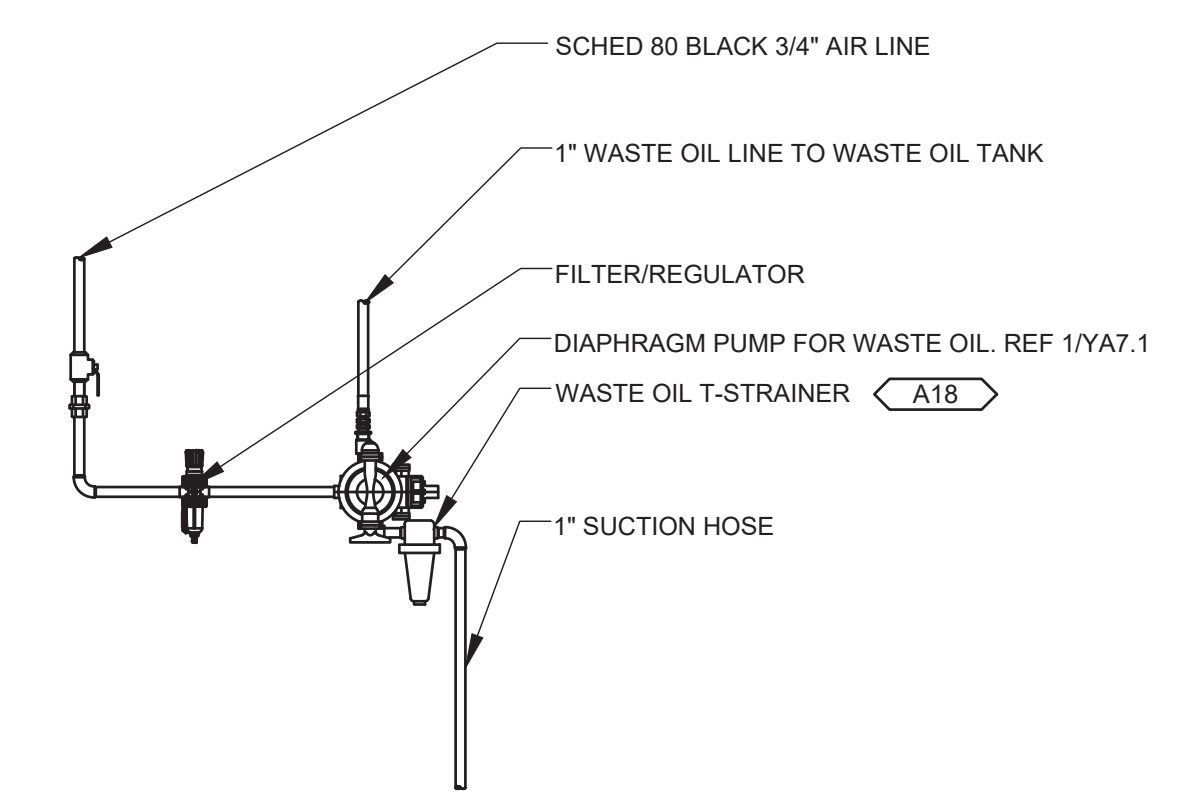
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May 12, 2021 1:50:07pm - User: jhime.boward
E:\03024-2-20336 Loves - Marshall, MI\3306-CD\0000 Architectural\161\1A7.1 TANK DETAILS & SCHEDULES.dwg



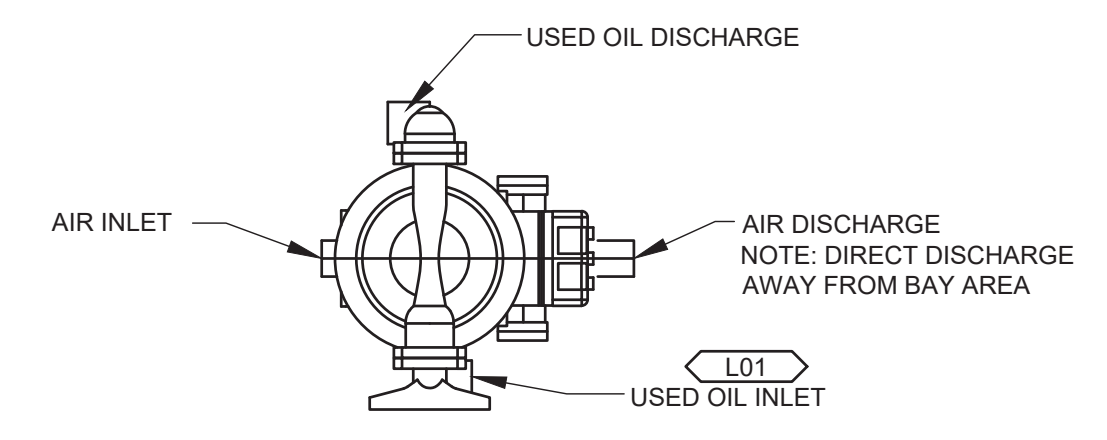
3 HOSE REELS

SCALE: NTS



2 DIAPHRAGM PUMP PIPING PLAN

SCALE: NTS



1 DIAPHRAGM PUMP DETAIL

SCALE: NTS

TABLE "A" REINFORCEMENT TENSION LAPS, EMBEDMENT LENGTHS AND HOOK LENGTHS $f_y=60000$ PSI									
$f_c = 3,000$ PSI					$f_c = 4,000$ PSI				
BAR SIZE	LAP CLASS	SPLICE		HOOK LENGTH	BAR SIZE	LAP CLASS	SPLICE		HOOK LENGTH
		TOP	OTHER				TOP	OTHER	
#3	A	20"	16"	8"	#3	A	18"	14"	7"
	B	27"	21"			B	23"	18"	
#4	A	28"	22"	11"	#4	A	25"	19"	9"
	B	36"	28"			B	32"	25"	
#5	A	36"	27"	13"	#5	A	31"	24"	12"
	B	46"	36"			B	40"	31"	
#6	A	43"	33"	16"	#6	A	37"	28"	14"
	B	56"	43"			B	48"	37"	
#7	A	62"	48"	18"	#7	A	54"	42"	16"
	B	81"	62"			B	70"	54"	

- NOTES:**
- LENGTHS SHOWN CONFORM WITH NON-SEISMIC PROVISIONS OF THE CURRENT EDITION OF ACI 318 FOR UNCOATED BARS NOT ENCLOSED BY CLOSELY SPACED SPIRALS OR TIES. DEVELOPMENT OF REINFORCEMENT NOT COVERED BY THE TABLE SHALL CONFORM WITH THE CURRENT EDITION OF ACI 318.
 - BAR CLEAR SPACING IS THE CENTER TO CENTER BAR SPACING MINUS TWO BAR DIAMETERS WHEN ALL BARS ARE LAPPED AT THE SAME LOCATION. THE BAR CLEAR SPACING IS TWICE THE CENTER TO CENTER BAR SPACING MINUS TWO BAR DIAMETERS. WHEN ALL BARS ARE EMBEDDED AT THE SAME LOCATION, THE BAR CLEAR SPACING IS THE CENTER TO CENTER BAR SPACING MINUS ONE BAR DIAMETER.
 - CLASS A LAP LENGTHS APPLY WHEN BAR LAPS ARE STAGGERED TO LAP HALF THE BARS AT THE SAME LOCATION OR WHEN BARS ARE LAPPED AT A LOCATION OF MINIMUM STRESS IN THE BARS.
 - LAP AND EMBEDMENT LENGTHS SHOWN APPLY WHEN BAR MINIMUM CONCRETE COVER OVER BARS CONFORMS WITH VALUES GIVEN IN THE TABLE FOR "CONCRETE COVER". THESE COVER VALUES CONFORM WITH THE CURRENT EDITION OF ACI 318.
 - CLASS A LAP AND EMBEDMENT LENGTHS HAVE THE SAME VALUE.
 - CLASS B LAP LENGTHS APPLY WHEN ALL BARS ARE SPLICED AT A LOCATION OF MAXIMUM STRESS IN THE BARS.
 - HOOK LENGTH GIVEN IS THE STRAIGHT LINE DISTANCE FROM THE LOCATION OF MAXIMUM STRESS IN THE BAR TO THE OUTSIDE END OF THE HOOK. MULTIPLY LENGTHS GIVEN BY 0.7 FOR HOOKS WITH SIDE COVER NORMAL TO THE HOOK. NOT LESS THAN 2 1/2 INCHES AND FOR 90 DEGREE HOOKS COVER ON BAR EXTENSION BEYOND HOOK NOT LESS THAN 2 INCHES.
 - TOP BARS ARE HORIZONTAL REINFORCEMENT PLACED SO THAT MORE THAN 12 INCHES OF CONCRETE IS CAST BELOW THE REINFORCEMENT.
 - MULTIPLY LAP AND EMBEDMENT LENGTHS BY 2.0 FOR BARS WITH CLEAR SPACING OF TWO BAR DIAMETERS OR LESS OR CONCRETE COVER OF ONE BAR DIAMETER OR LESS.
 - MINIMUM CONCRETE COVER FROM FACE OF MEMBER TO EDGE BAR SHALL NOT BE LESS THAN TWO AND ONE HALF BAR DIAMETERS.

SPECIAL INSPECTION NOTES

IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 17 OF THE BUILDING CODE, THE OWNER SHALL EMPLOY QUALIFIED PERSONNEL TO PERFORM THE FOLLOWING SPECIAL INSPECTIONS AND REPORT THE FINDINGS TO THE ENGINEER AND BUILDING OFFICIAL. THIS DOES NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY TO PERFORM WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOTIFY THE INSPECTOR 48 HOURS IN ADVANCE OF ALL INSPECTIONS.

STATEMENT OF SPECIAL INSPECTION (PER INTERNATIONAL BUILDING CODE 2015)

SOURCE AND FIELD QUALITY CONTROL REQUIREMENTS ARE ALSO STATED IN THE SPECIFICATIONS. COMPLY WITH THE MORE STRINGENT OF THE SPECIFICATIONS AND THESE REQUIREMENTS FOR SPECIAL INSPECTION.

GENERAL

- SPECIAL INSPECTIONS SHALL BE PERFORMED FOR THIS FACILITY IN ACCORDANCE WITH THE STATEMENT OF SPECIAL INSPECTIONS PER IBC 2015 SECTION 1705 AND ARE IN ADDITION TO THOSE REQUIRED BY IBC 2015 SECTION 110.
- SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON(S) WHO SHALL DEMONSTRATE COMPETENCE, FOR INSPECTION OF THE TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
- SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE PROJECT MANAGER, AND TO THE ENGINEER OF RECORD, DISTRIBUTED ON A REGULAR BASIS. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS PERFORMED IN CONFORMANCE WITH APPROVED CONSTRUCTION DOCUMENTS, OR INDICATE DISCREPANCIES. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE PROJECT MANAGER AND ENGINEER OF RECORD.
- SUBMIT A FINAL REPORT DOCUMENTING ALL SPECIAL INSPECTIONS FOR EACH TYPE OF CONSTRUCTION, INCLUDE RESOLUTIONS AND/OR CORRECTIONS FOR ANY NOTED DISCREPANCIES. FINAL REPORT SHALL BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER.

SUBCONTRACTOR RESPONSIBILITY:

- EACH SUBCONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WIND OR SEISMIC FORCE-RESISTING SYSTEM OR WIND OR SEISMIC FORCE RESISTING COMPONENT LISTED SHALL SUBMIT A WRITTEN SUBCONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE PROJECT MANAGER AND TO THE ENGINEER OF RECORD PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT.
- SUBCONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING:
 1. ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE QUALITY ASSURANCE PLAN.
 2. ACKNOWLEDGEMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.
 3. PROCEDURES FOR EXERCISING CONTROL WITHIN THE SUBCONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND THE DISTRIBUTION OF THE REPORTS.
 4. IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) WITHIN THE ORGANIZATION.
- FOR ITEMS REQUIRING PERIODIC INSPECTION:** INSPECT WORK PERFORMED ON THE FIRST DAY ANY CONSTRUCTION ACTIVITY REQUIRING SPECIAL INSPECTION. INSPECT WORK ON A PERIODIC BASIS THEREAFTER FOR THE DURATION OF THE ACTIVITY.
- FOR ITEMS REQUIRING CONTINUOUS INSPECTION:** INSPECT WORK ON A FULL-TIME BASIS, AND BE PRESENT IN THE AREA FOR THE DURATION OF THE ACTIVITY.
- INSPECTION OF FABRICATORS**
- THE SPECIAL INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM WITH APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS PRIOR TO THE START OF WORK.
- SPECIAL INSPECTOR SHALL REVIEW THE PROCEDURES FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENTS FOR THE FABRICATOR'S SCOPE PRIOR TO THE START OF WORK.
- FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE PROJECT MANAGER AND TO THE ENGINEER OF RECORD STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS AT COMPLETION OF WORK.

STEEL CONSTRUCTION (REFERENCE IBC-2015, SECT 1705.2.1 - REFER TO AISC 14TH ED CHAPTER N)

- MATERIAL VERIFICATION OF STRUCTURAL STEEL**
 (1) IDENTIFICATION MARKING TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS,
 (2) SUBMITTAL OF MANUFACTURER'S CERTIFIED MILL TEST REPORTS TO ENGINEER OF RECORD.
- FOR THE FOLLOWING TABLES:
 O- OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.
 P- PERFORM THESE TASKS FOR EACH WELDED/BOLTED JOINT OR STEEL MEMBER

SOILS (IBC 2015 - TABLE 1705.6 - REQUIRED VERIFICATION AND INSPECTIONS)			
VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODIC DURING TASK LISTED	
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	--	X	
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	--	X	
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	--	X	
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	--	
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	--	X	

CONCRETE MATERIALS CONSTRUCTION (IBC 2015 - TABLE 1705.3 - REQUIRED VERIFICATION AND INSPECTIONS)			
VERIFICATION AND INSPECTIONS	REFERENCE STANDARD	CONTINUOUS	PERIODIC
1. REINFORCING STEEL	VERIFY PRIOR TO PLACING CONCRETE THAT REINFORCING IS OF SPECIFIED TYPE, GRADE AND SIZE; THAT IT IS FREE OF OIL, DIRT AND RUST; THAT IT IS LOCATED AND SPACED PROPERLY; THAT HOOKS, BENDS TIES, STIRRUPS AND SUPPLEMENTAL REINFORCEMENT ARE PLACED CORRECTLY; THAT LAP LENGTHS, STAGGER AND OFFSETS ARE PROVIDED; AND THAT ALL MECHANICAL CONNECTIONS ARE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS AND/OR EVALUATION REPORT.	--	X
2. CAST-IN BOLTS & EMBEDS	INSPECTION OF ANCHORS OR EMBEDS CAST IN CONCRETE IS REQUIRED WHEN ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED.	--	X
3. POST-INSTALLED ANCHORS OR DOWELS	ALL POST-INSTALLED ANCHORS/DOWELS SHALL BE SPECIALLY INSPECTED AS REQUIRED BY THE APPROVED ICC-ES REPORT.	--	X
4. USE OF REQUIRED DESIGN MIX	VERIFY THAT ALL MIXES USED COMPLY WITH THE APPROVED CONSTRUCTION DOCUMENTS; ACI 318: CH. 4, 5.2-5.4; AND IBC 1904.3, 1932.2, 1913.3.	--	X
5. CONCRETE SAMPLING FOR STRENGTH TESTS, SLUMP, AIR CONTENT, AND TEMPERATURE		X	--
6. CONCRETE PLACEMENT		X	--
7. CURING TEMPERATURE AND TECHNIQUES	VERIFY THAT THE AMBIENT TEMPERATURE FOR CONCRETE IS KEPT AT >50°F FOR AT LEAST 7 DAYS AFTER PLACEMENT. HIGH-EARLY-STRENGTH CONCRETE SHALL BE KEPT AT >50°F FOR AT LEAST 3 DAYS ACCELERATED CURING METHODS MAY BE USED (SEE ACI 318: 5.11.3). THE AMBIENT TEMPERATURE FOR SHOTCRETE SHALL BE >40°F FOR THE SAME PERIOD OF TIME AS NOTED FOR CONCRETE. SHOTCRETE SHALL BE KEPT CONTINUOUSLY MOIST FOR AT LEAST 24 HOURS AFTER SHOTCRETING. ALL CONCRETE MATERIALS, REINFORCEMENT, FORMS, FILLERS, AND GROUND SHALL BE FREE FROM FROST. IN HOT WEATHER CONDITIONS ENSURE THAT APPROPRIATE MEASURES ARE TAKEN TO AVOID PLASTIC SHRINKAGE CRACKING AND THAT THE SPECIFIED WATER/CEMENT RATIO IS NOT EXCEEDED.	--	X
8. FORMWORK	VERIFY THAT THE FORMS ARE PLACED PLUMB AND CONFORM TO THE SHAPES, LINES, AND DIMENSIONS OF THE MEMBERS AS REQUIRED BY THE APPROVED CONSTRUCTION DOCUMENTS.	--	X
9. REINFORCEMENT COMPLYING WITH ASTM A 615 IN SPECIAL MOMENT FRAMES; SPECIAL STRUCTURAL WALLS AND COUPLING BEAMS	VERIFY THAT ASTM A 615 REINFORCING STEEL USED IN THESE AREAS COMPLIES WITH ACI 318: 21.1.5.2 BY MEANS OF CERTIFIED MILL TEST REPORTS. IF THIS REINFORCING STEEL IS TO BE WELDED CHEMICAL TESTS SHALL BE PERFORMED IN ACCORDANCE WITH ACI 318: 3.5.2.	--	X

AISC 360-10, TABLE N5.4-1 (INSPECTION TASKS PRIOR TO WELDING)			
INSPECTION TASKS PRIOR TO WELDING	QC	QA	
WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	P	P	
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	P	P	
MATERIAL IDENTIFICATION (TYPE/GRADE)	O	O	
WELDER IDENTIFICATION SYSTEM	O	O	
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) • JOINT PREPARATION • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION) • BACKING TYPE AND FIT (IF APPLICABLE)	O	O	
CONFIGURATION AND FINISH OF ACCESS HOLES	O	O	
FIT-UP OF FILLET WELDS • DIMENSIONS (ALIGNMENT, GAPS AT ROOT) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION)	O	O	
CHECK WELDING EQUIPMENT	O	-	

AISC 360-10, TABLE N5.4-2 (INSPECTION TASKS DURING WELDING)			
INSPECTION TASKS DURING WELDING	QC	QA	
USE OF QUALIFIED WELDERS	O	O	
CONTROL AND HANDLING OF WELDING CONSUMABLES • PACKAGING • EXPOSURE CONTROL	O	O	
NO WELDING OVER CRACKED TACK WELDS	O	O	
ENVIRONMENTAL CONDITIONS • WIND SPEED WITHIN LIMITS • PRECIPITATION AND TEMPERATURE	O	O	
WPS FOLLOWED • SETTINGS ON WELDING EQUIPMENT • TRAVEL SPEED • SELECTED WELDING MATERIALS • SHIELDING GAS TYPE/FLOW RATE • PREHEAT APPLIED • INTERPASS TEMPERATURE MAINTAINED (MIN/MAX.) • PROPER POSITION (F, V, H, OH)	O	O	
WELDING TECHNIQUES • INTERPASS AND FINAL CLEANING • EACH PASS WITHIN PROFILE LIMITATIONS • EACH PASS MEETS QUALITY REQUIREMENTS	O	O	

AISC 360-10 TABLE N5.4-3 (INSPECTION TASKS AFTER WELDING)		
INSPECTION TASKS AFTER WELDING	QC	QA
WELDS CLEANED	O	O
SIZE, LENGTH AND LOCATION OF WELDS	P	P
WELDS MEET VISUAL ACCEPTANCE CRITERIA • CRACK PROHIBITION • WELD/BASE METAL FUSION • CRATER CROSS SECTION • WELD PROFILES • WELD SIZE • UNDERCUT • POROSITY	P	P
ARC STRIKES	P	P
K-AREA	P	P
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	P	P
REPAIR ACTIVITIES	P	P
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	P	P

AISC 360-10 TABLE N5.6-1 (INSPECTION TASKS PRIOR TO BOLTING)		
INSPECTION TASKS PRIOR TO BOLTING	QC	QA
MFRs CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	O	P
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	O	O
PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM THE SHEAR PLANE)	O	O
PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	O	O
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	O	O
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	P	O
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	O	O

AISC 360-10 TABLE N5.6-2 (INSPECTION TASKS DURING BOLTING)		
INSPECTION TASKS DURING BOLTING	QC	QA
FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	O	O
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	O	O
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	O	O
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	O	O

AISC 360-10 TABLE N5.6-3 (INSPECTION TASKS AFTER BOLTING)		
INSPECTION TASKS AFTER BOLTING	QC	QA
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	P	P

STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL (IBC 2015 - TABLE 1705.2.2 - REQUIRED VERIFICATION AND INSPECTIONS)			
VERIFICATION AND INSPECTIONS - CONT'D	CONTINUOUS	PERIODIC	
1. MATERIAL VERIFICATION OF COLD-FORMED STEEL DECK:			
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	--	X	
b. MANUFACTURER'S CERTIFIED TEST REPORTS.	--	X	
2. INSPECTION OF WELDING:			X
a. COLD-FORMED STEEL DECK.			
1) FLOOR AND ROOF DECK WELDS.	--		
b. REINFORCING STEEL:			
1) REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS OF CONCRETE AND SHEAR REINFORCEMENT.	X	--	
2) SHEAR REINFORCEMENT.	X	--	
3) OTHER REINFORCING STEEL.	--	X	
3. INSPECTION OF ROOF DECK ATTACHMENTS			
1) FLOOR AND ROOF DECK WELDS.	--	X	
2) FLOOR AND ROOF DECK SCREWS AND PINS.	--	X	



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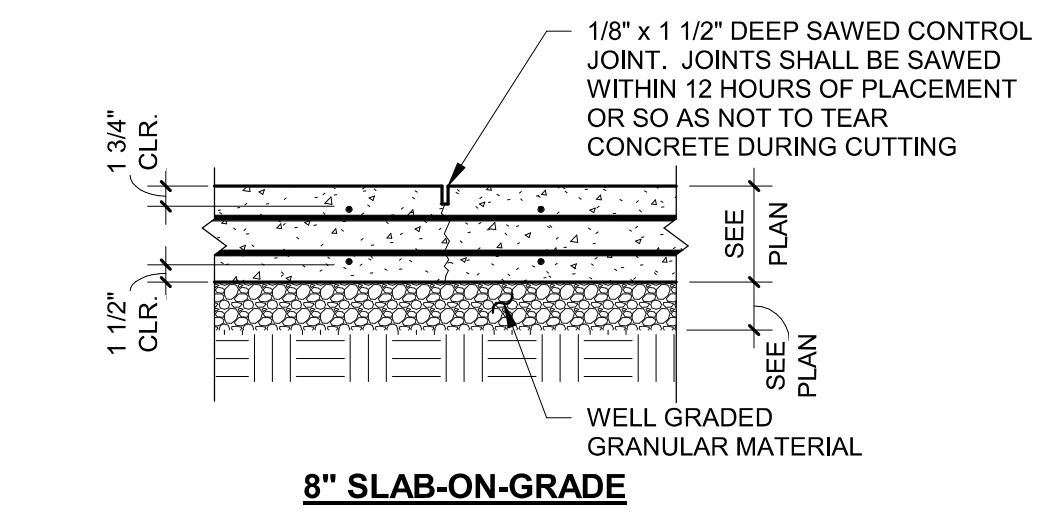
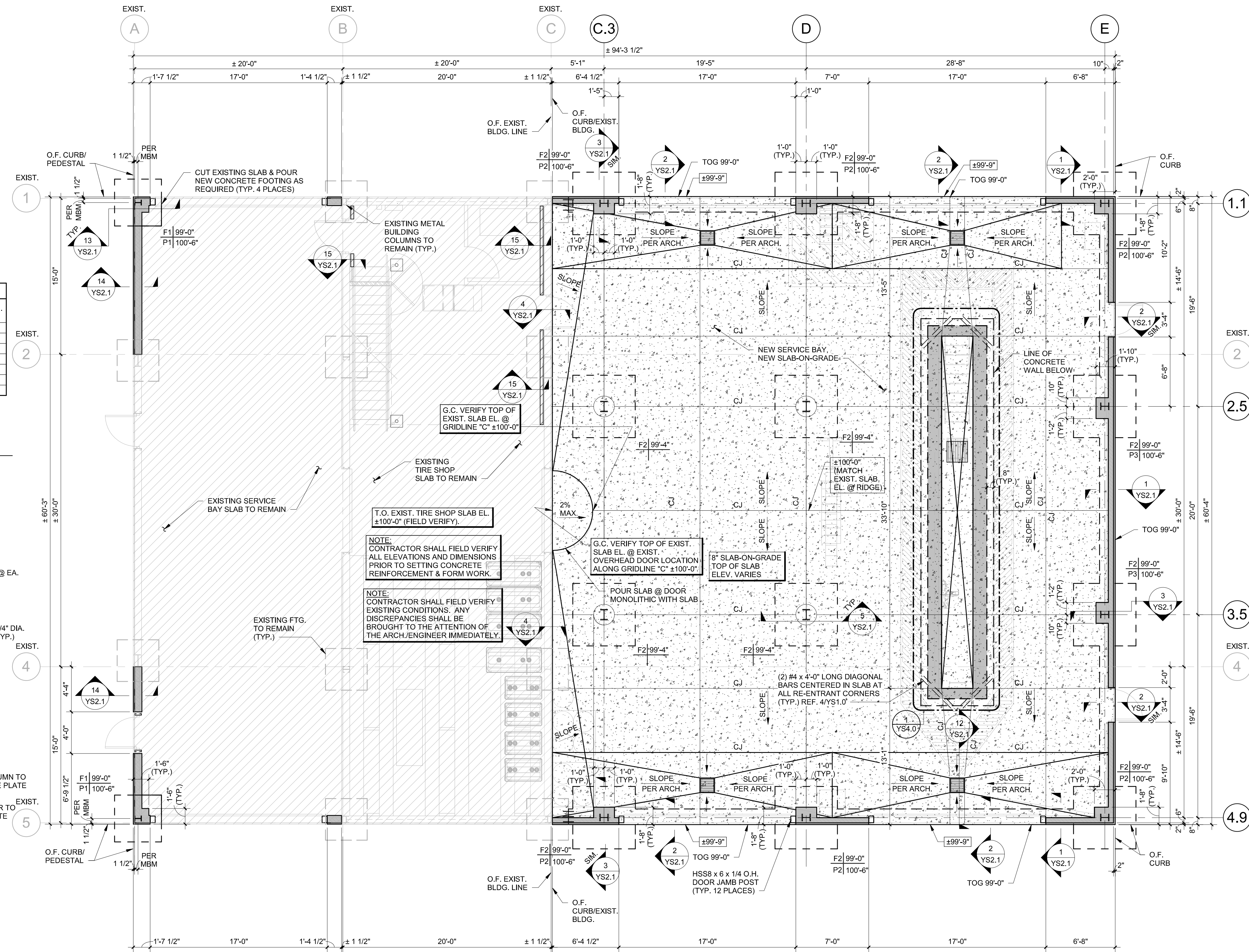
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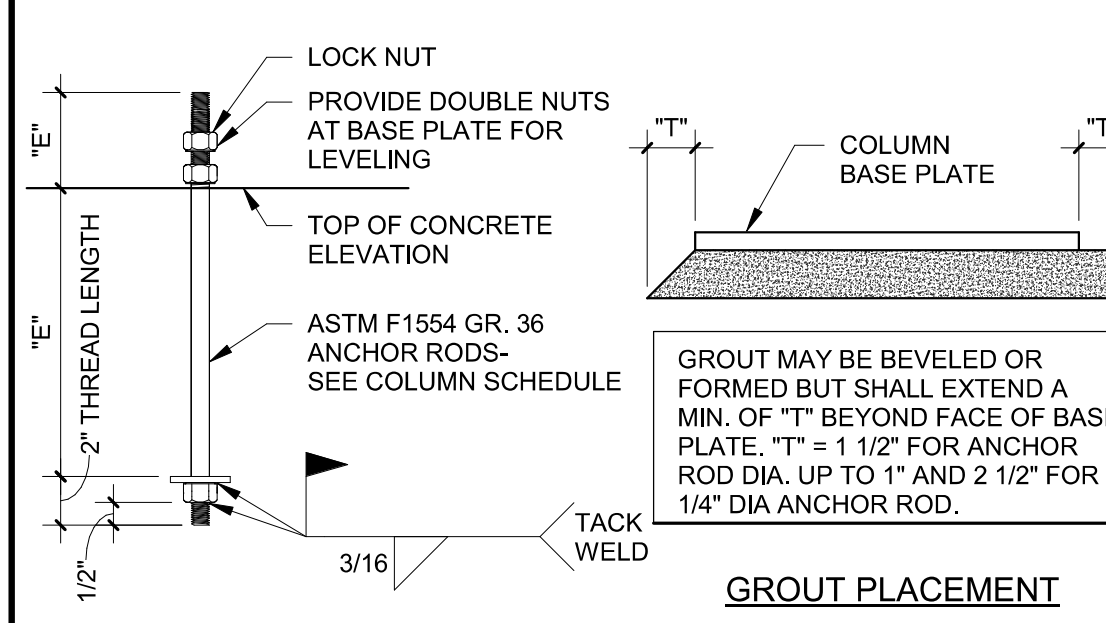


SPECIAL INSPECTIONS

SHEET **YS1.1**



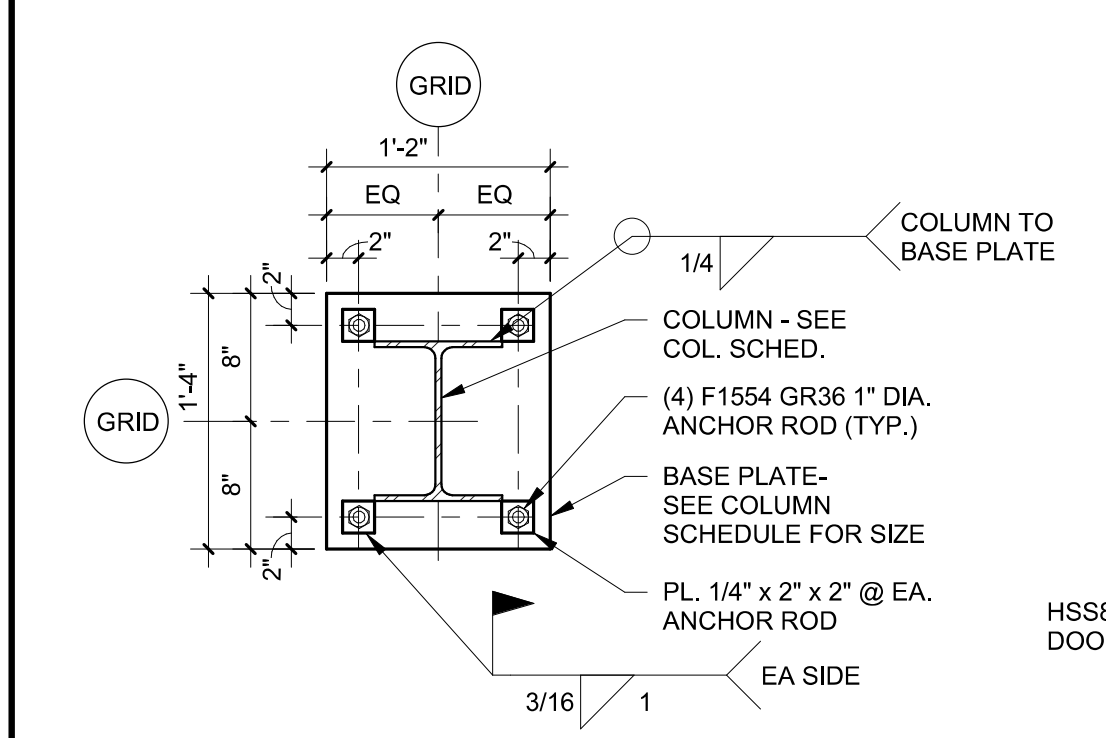
4 TYP. SLAB-ON-GRADE CONTROL JOINT DTL.
3/4" = 1'-0"



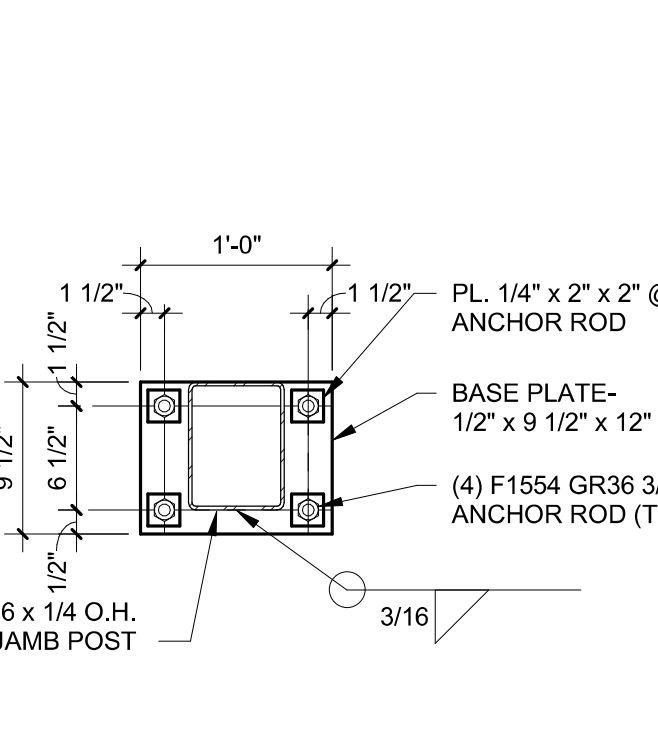
3 TYP. ANCHOR ROD & GROUT PLACEMENT DETAIL
1 1/2" = 1'-0"

ANCHOR BOLT SCHEDULE

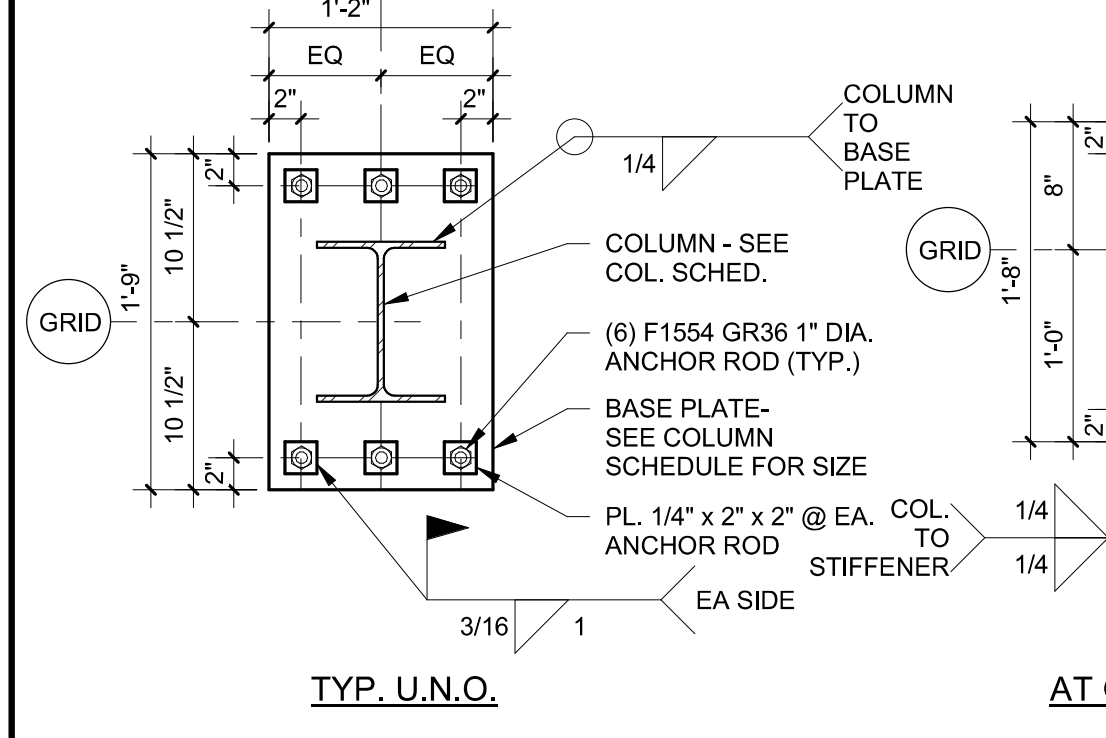
BOLT DIAMETER	EMBEDMENT LENGTH	THREAD PROJ. "B"
1 1/2"	2'-0"	6"
1 1/4"	2'-0"	6"
1"	1'-6"	6"
7/8"	1'-2"	4"
3/4"	1'-2"	4"
5/8"	10"	4"
1/2"	8"	4"



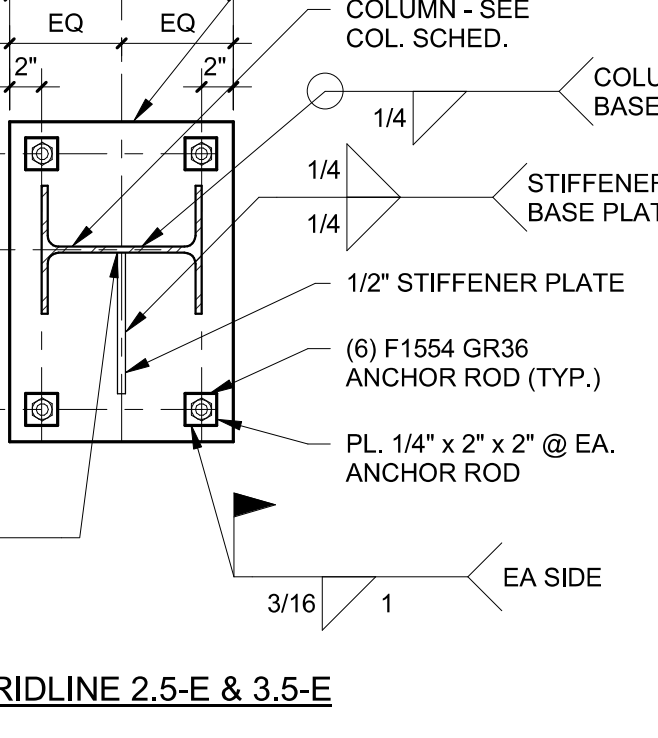
2 TYP. BASE PLATE DETAILS
NOT TO SCALE



2 TYP. BASE PLATE DETAILS
NOT TO SCALE



2 TYP. BASE PLATE DETAILS
NOT TO SCALE



2 TYP. BASE PLATE DETAILS
NOT TO SCALE

1 FOUNDATION PLAN
3/16" = 1'-0"

FOOTING SCHEDULE

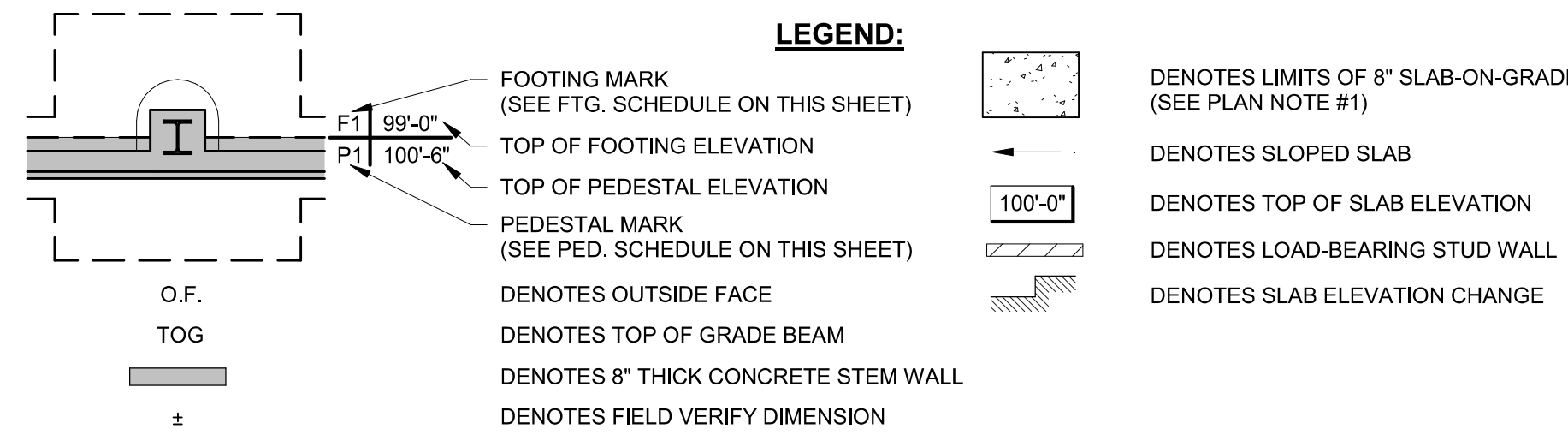
FOOTING MARK	FOOTING SIZE B x L x t	REINFORCING	REMARKS
F1	4'-6" x 4'-6" x 3'-0"	(5) #5 EA. WAY TOP & BOTTOM	----
F2	6'-0" x 6'-0" x 3'-0"	(7) 6 EA. WAY TOP & BOTTOM	----

PEDESTAL SCHEDULE

PEDESTAL MARK	PEDESTAL SIZE WIDTH x LENGTH	VERTICAL DOWELS	TIES	REMARKS
P1	18" x 18"	(8) #6 DOWELS	#3 TIES @ 10" o.c.; (3) TIES MIN.	----
P2	20" x 24"	(10) #6 DOWELS	#3 TIES @ 10" o.c.; (3) TIES MIN.	SEE NOTE #1
P3	22" x 24"	(10) #6 DOWELS	#3 TIES @ 10" o.c.; (3) TIES MIN.	SEE NOTE #1

PEDESTAL SCHEDULE NOTE:
1. SEE FOUNDATION PLAN FOR PEDESTAL ORIENTATION.

- PLAN NOTES:**
- 8" SLAB-ON-GRADE CONSTRUCTION: 8" CONCRETE SLAB REINFORCED W/ #3 @ 18" EA. WAY TOP & BOTTOM. PLACE REINF. AT 1 3/4" CLR. FROM TOP OF SLAB AND 1 1/2" CLR. FROM BOTTOM OF SLAB ON STEGO 15 MIL CLASS A VAPOR BARRIER OVER 6" LAYER OF CLEAN CRUSHED ROCK. ELIMINATE VAPOR BARRIER AT EXTERIOR SLAB.
 - "CJ" DENOTES CONTROL JOINT. PROVIDE 1/8" x 1 1/2" DEEP SAWED CONTROL JOINT. JOINTS SHALL BE SAWED WITHIN 12 HOURS OF PLACEMENT OR SO AS NOT TO TEAR CONCRETE DURING CONSTRUCTION.
 - SEE THIS DWG. FOR FOOTING SCHEDULE & PEDESTAL SCHEDULE.
 - ALL ELEVATIONS ARE BASED ON EXISTING TIRE SHOP FINISHED FLOOR EL. 100'-0". FIELD VERIFY ACTUAL FINISHED FLOOR ELEVATION.
 - TOP OF FOOTING ELEVATION 99'-0" (U.N.O.).
 - ALL TOP OF PEDESTAL ELEVATION 100'-6" (U.N.O.).
 - SEE ARCH./CIVIL DWGS. FOR DIMENSIONS NOT SHOWN.
 - COORDINATE DOOR LOCATIONS WITH ARCH. DWGS.
 - SEE ARCH. DWG. FOR LOCATION, SIZE, & DETAILS OF ALL EXTERIOR SLABS, STOOPS, & RAMPS.



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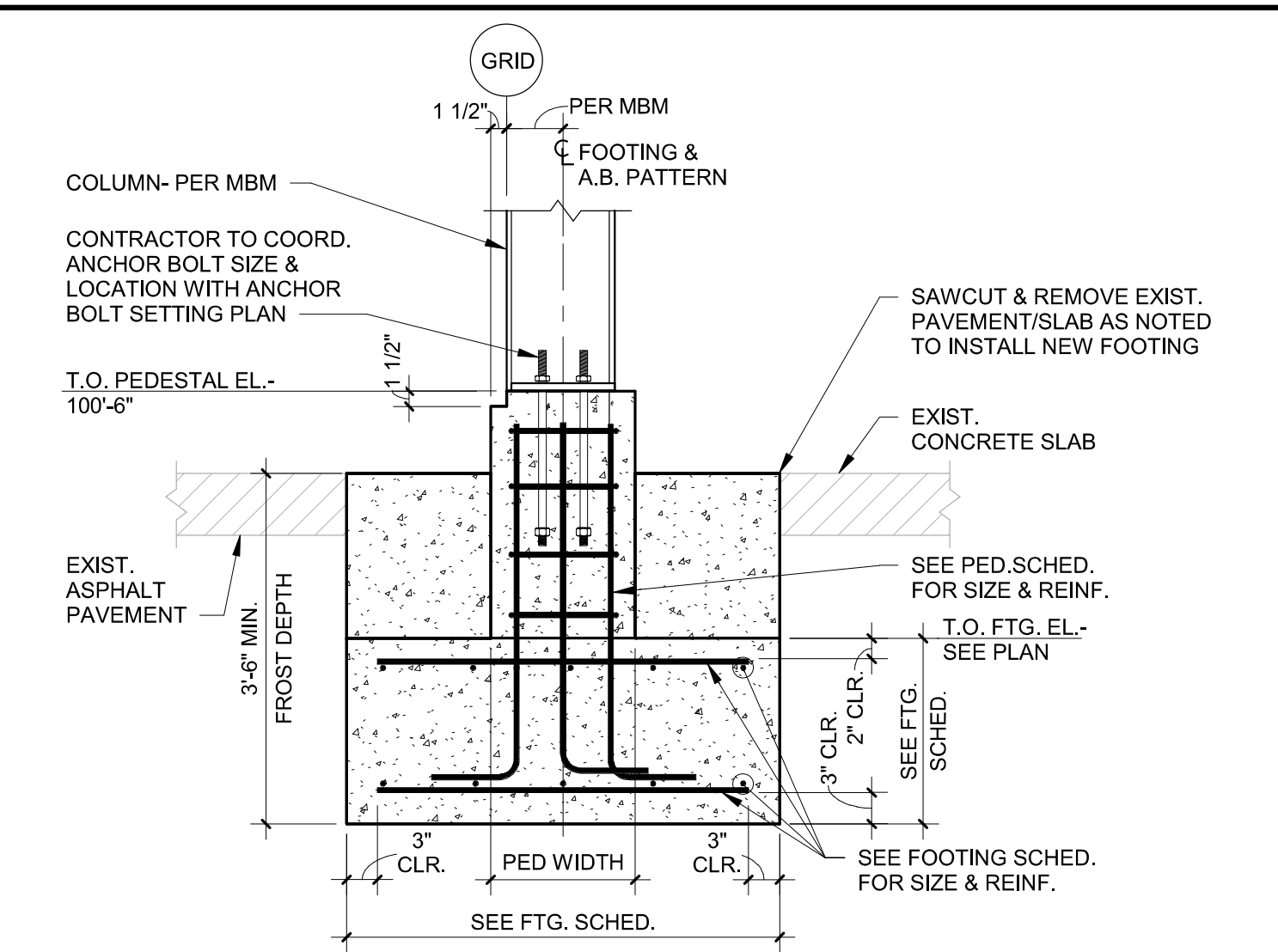
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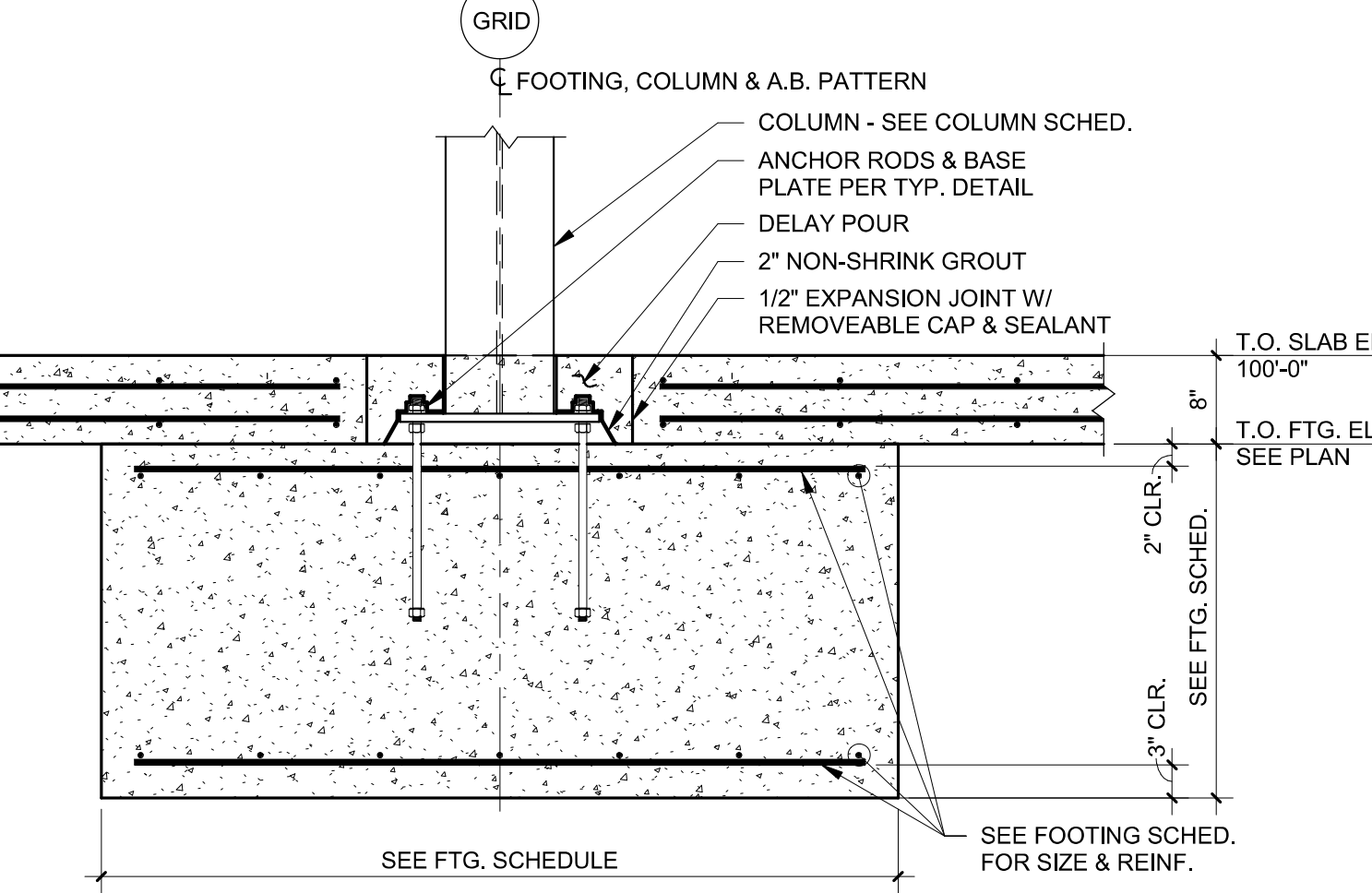
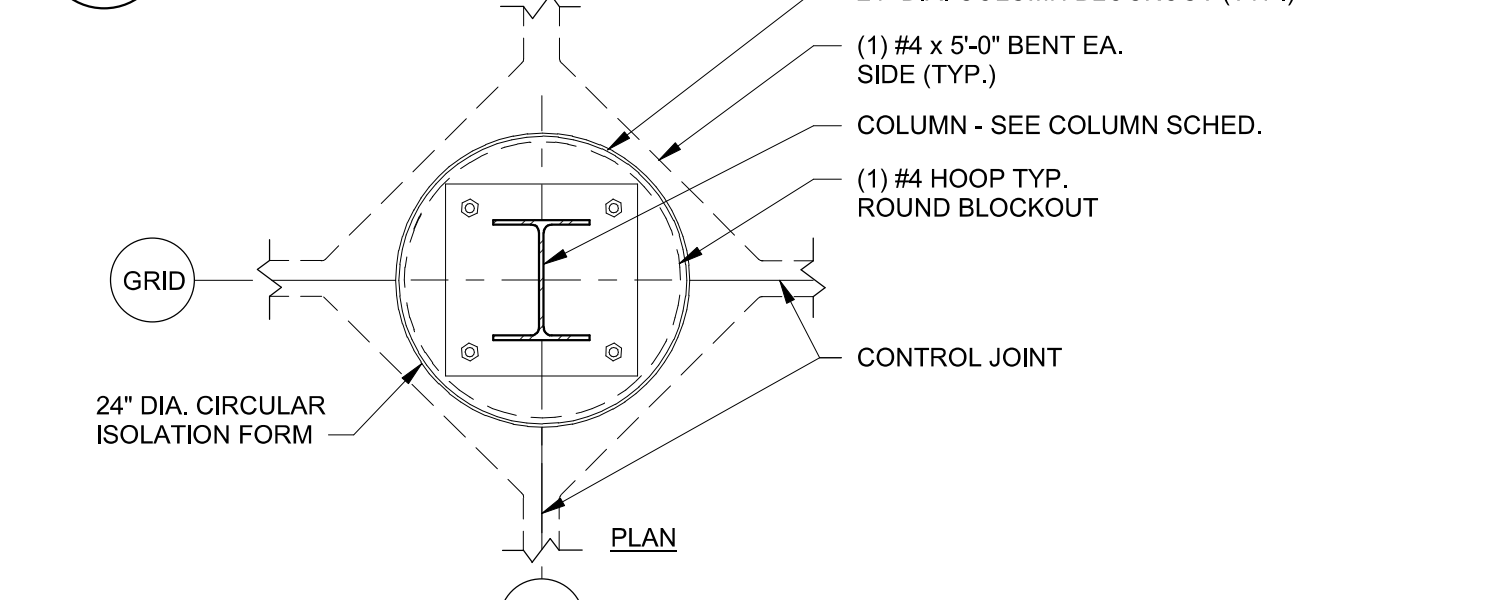
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DRAWN BY: JWK
DOCUMENT DATE: 05/05/21

STATE OF MICHIGAN
LUNSHEN TSAO
ENGINEER
No. 59302
Lunshen Tsao
2021.07.22 16:04:16-05'00"

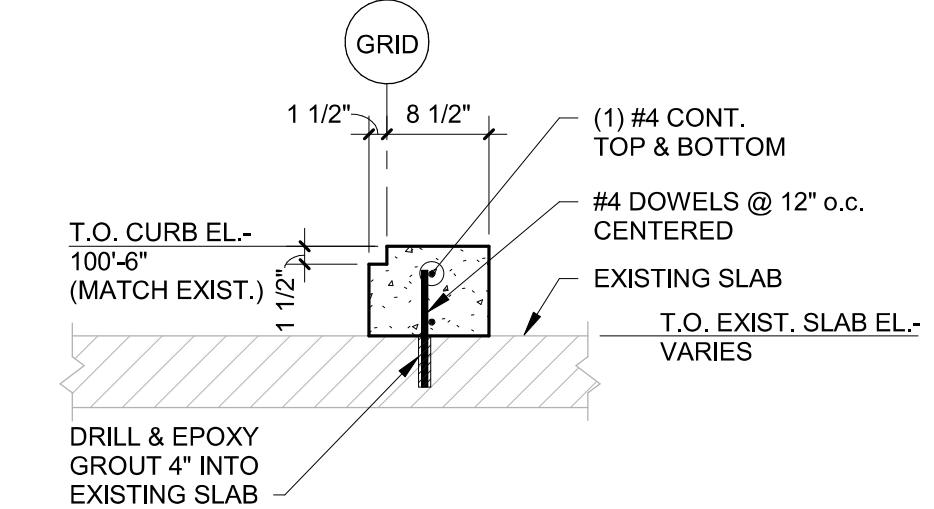
**FOUNDATION
DETAILS**



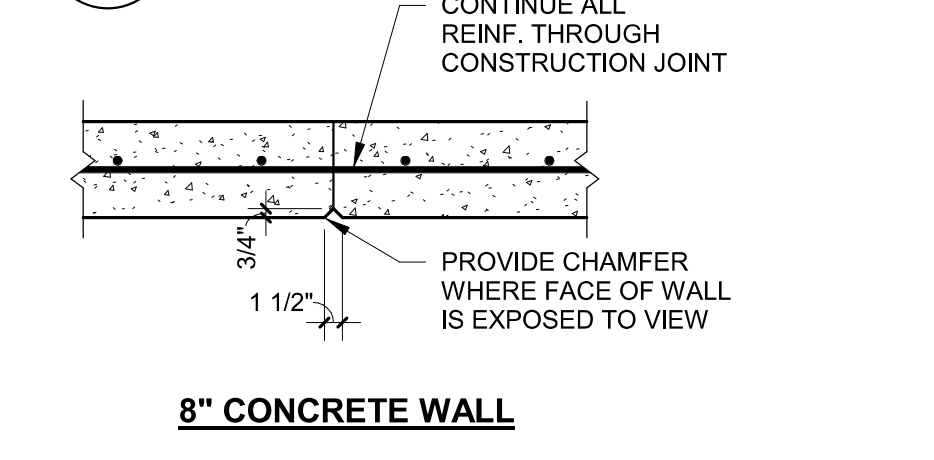
13 SECTION
3/4" = 1'-0"



5 SECTION
3/4" = 1'-0"

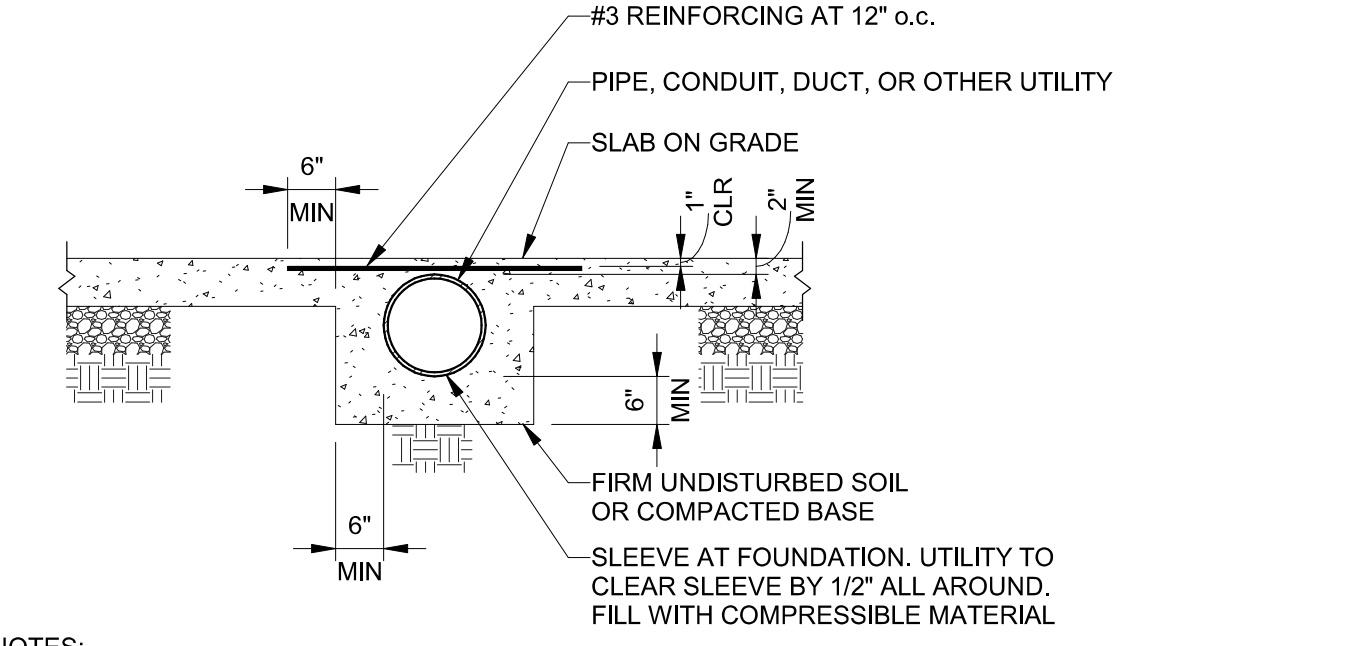


14 SECTION
3/4" = 1'-0"



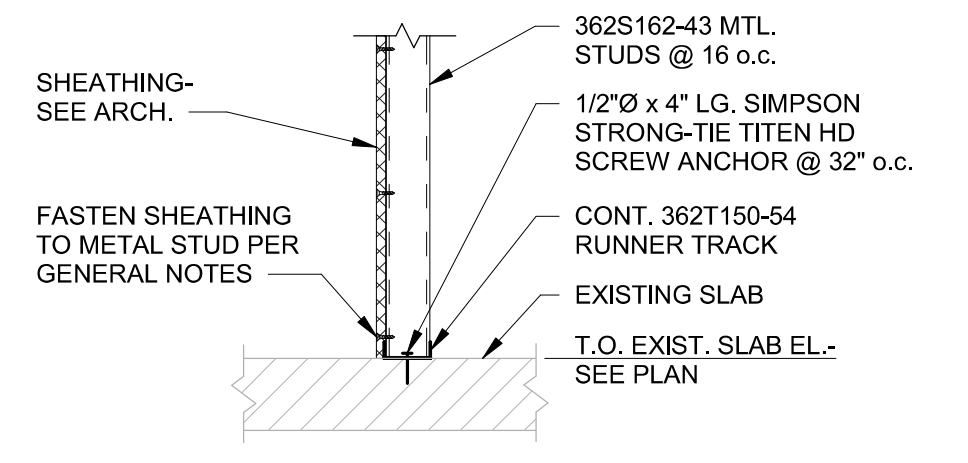
NOTE: CONSTRUCTION JOINT MAY BE SUBSTITUTED FOR CONTROL JOINT.

9 TYP. CONCRETE WALL CONSTRUCTION JT. DETAIL
NOT TO SCALE

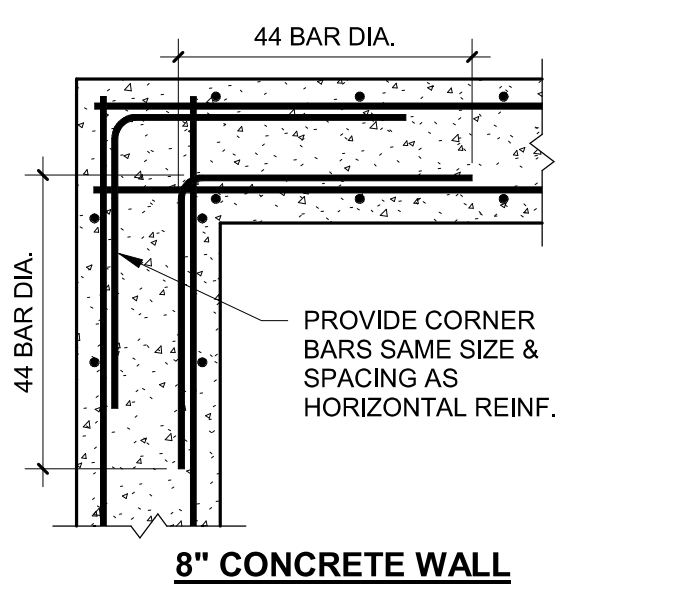


NOTES:
1. PROVIDE 4" MINIMUM SPACING BETWEEN MULTIPLE PIPES OR CONDUIT.
2. THIS DETAIL APPLIES ONLY IF SPECIFICALLY APPROVED BY ARCHITECT IN WRITING

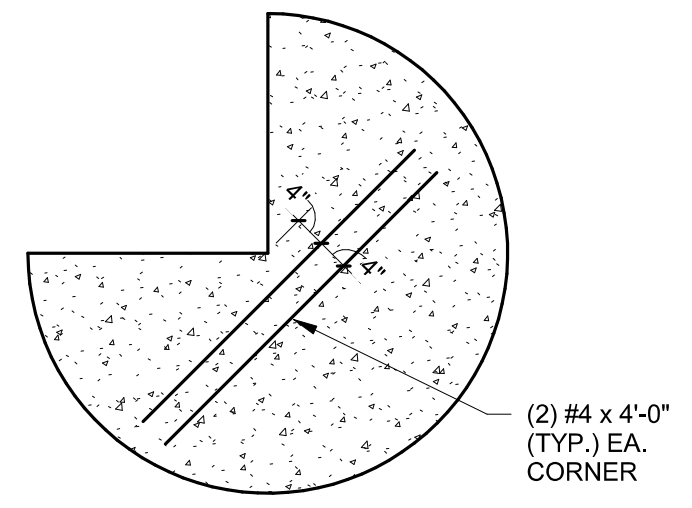
6 SLEEVE FOR UTILITY BELOW SLAB
1/2" = 1'-0"



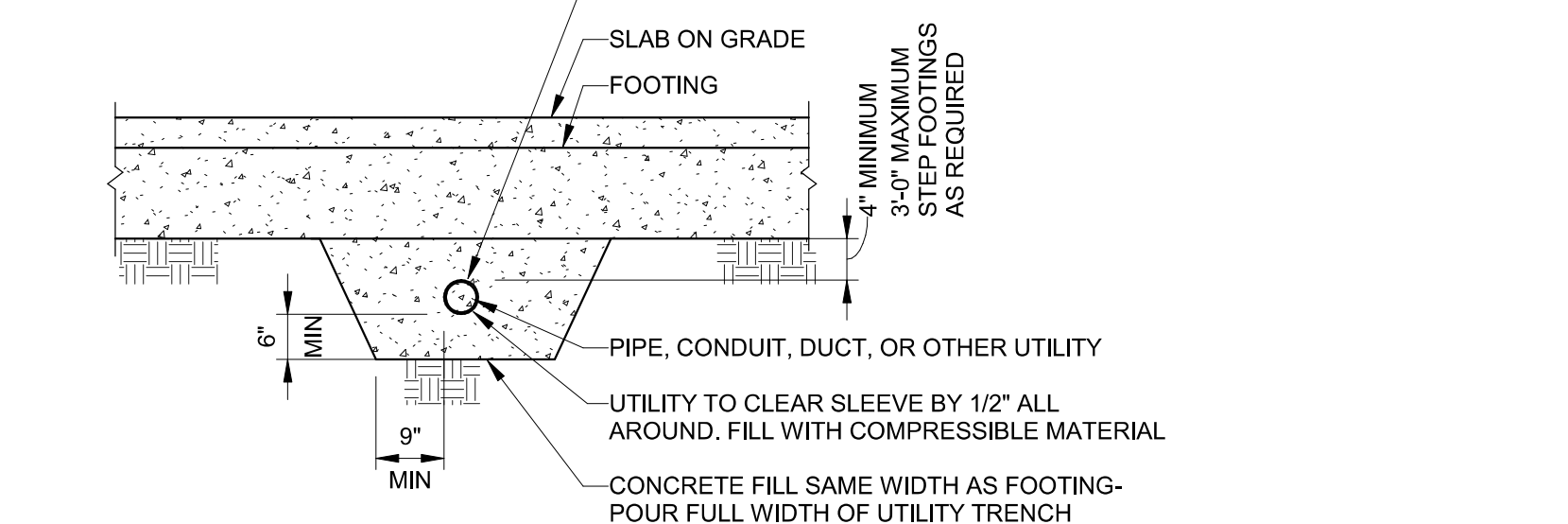
15 SECTION
3/4" = 1'-0"



10 TYP. CONCRETE WALL CORNER DETAIL
NOT TO SCALE

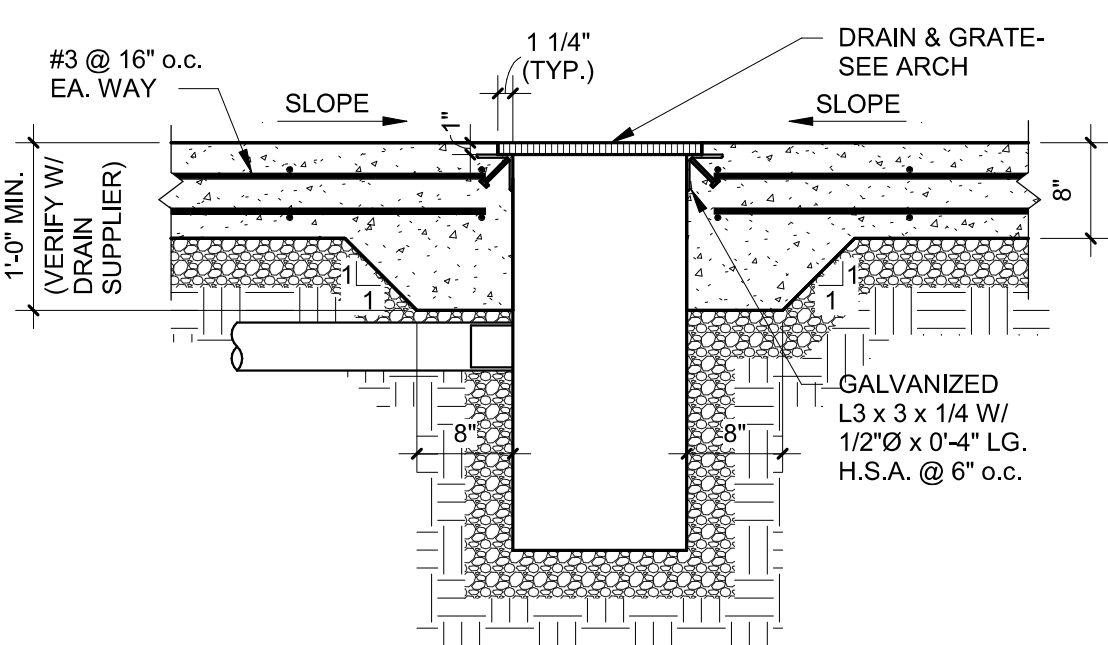


11 TYP. RE-ENTRANT CORNER DETAIL
1/2" = 1'-0"

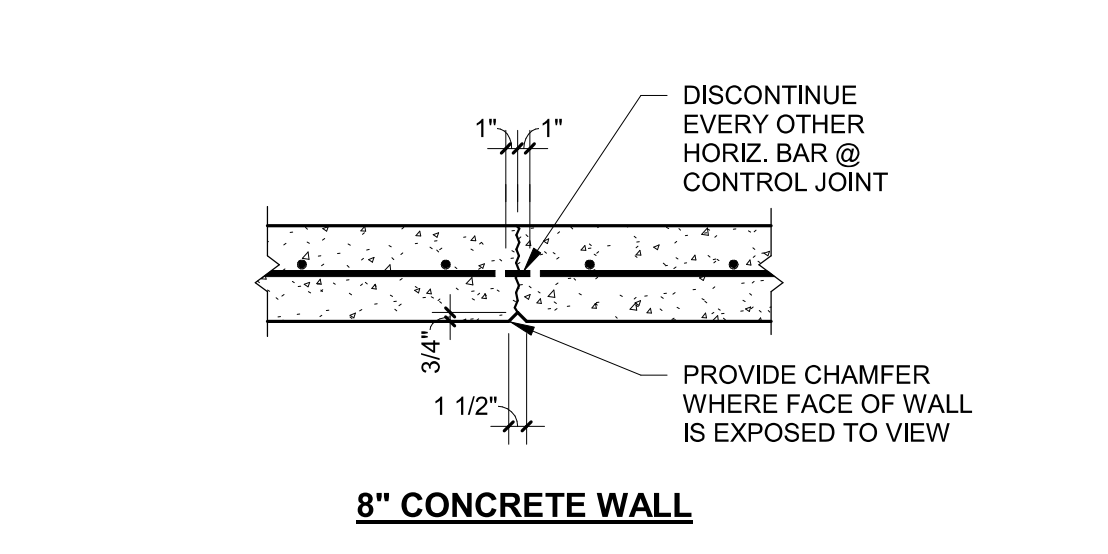


NOTES:
1. NO UTILITIES SHALL PASS THROUGH FOOTING OR THROUGH OR UNDER COLUMN FOOTINGS.
2. PROVIDE 4" MINIMUM SPACING BETWEEN MULTIPLE PIPES

7 UTILITY TRENCH/UNDER FOUNDATION
1/2" = 1'-0"

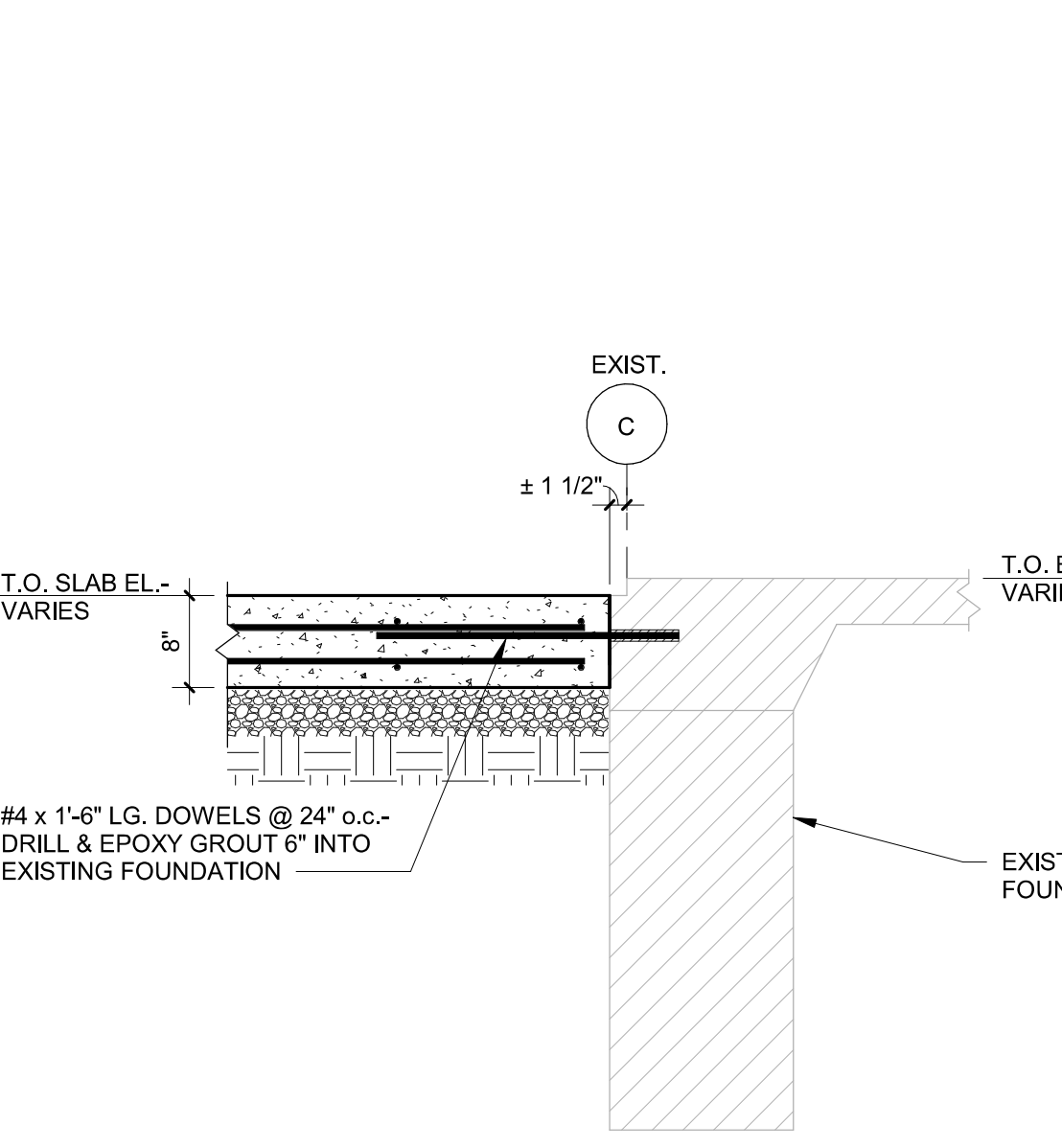


12 DRAIN PIT SECTION
3/4" = 1'-0"

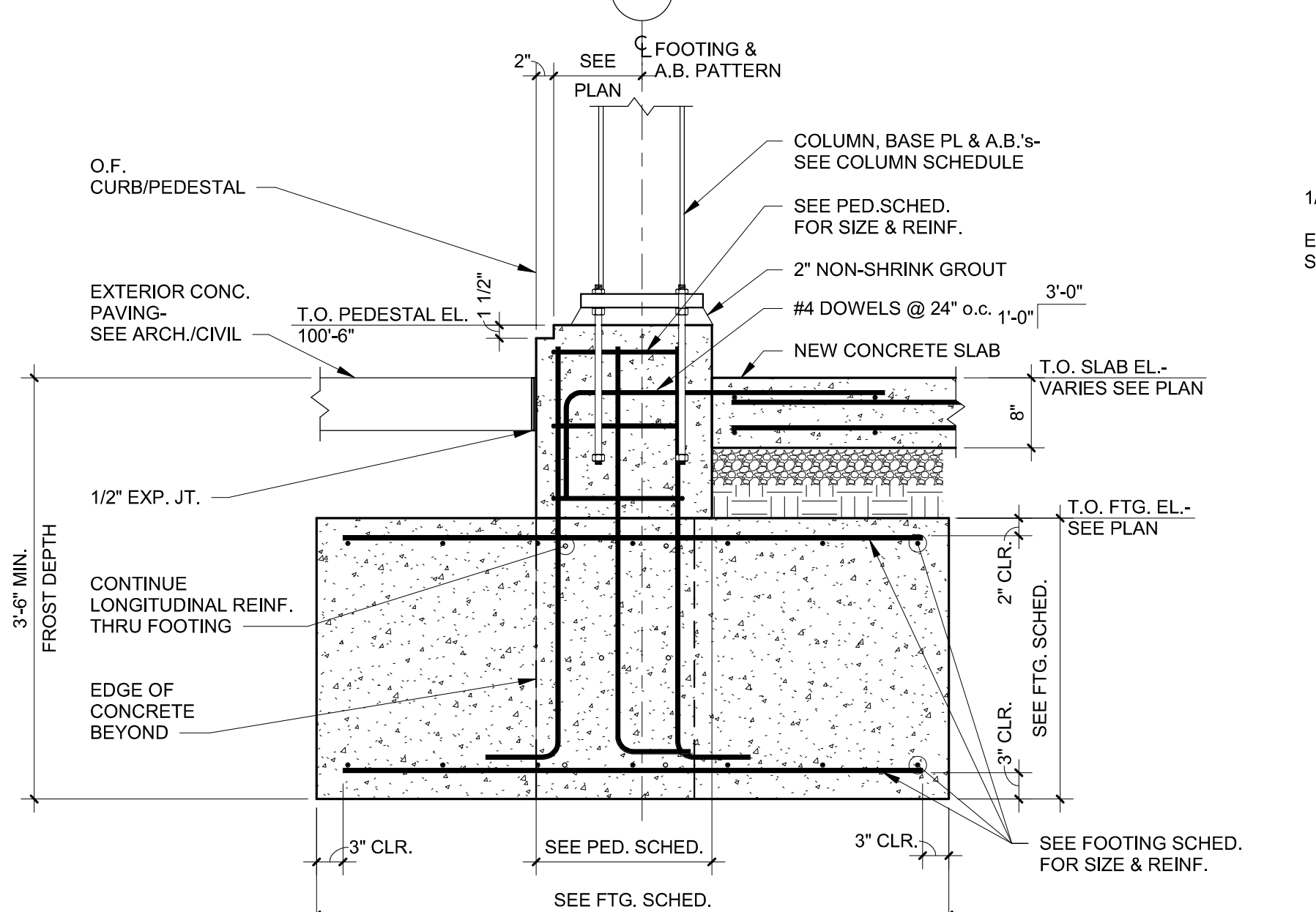


NOTE: LOCATE CONTROL JOINT AT 24'-0" o.c. MAXIMUM.

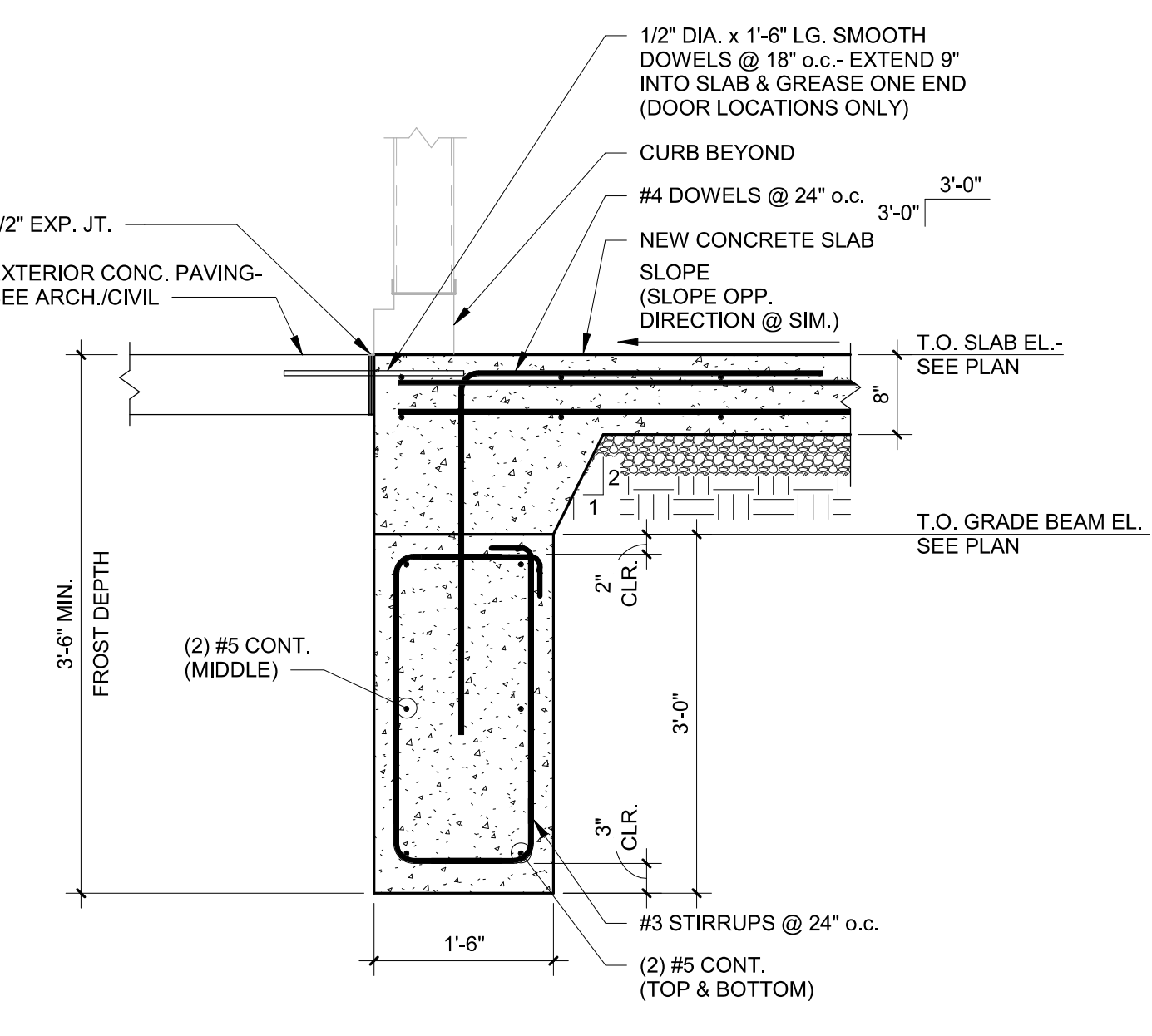
8 TYP. CONCRETE WALL CONTROL JT. DETAIL
NOT TO SCALE



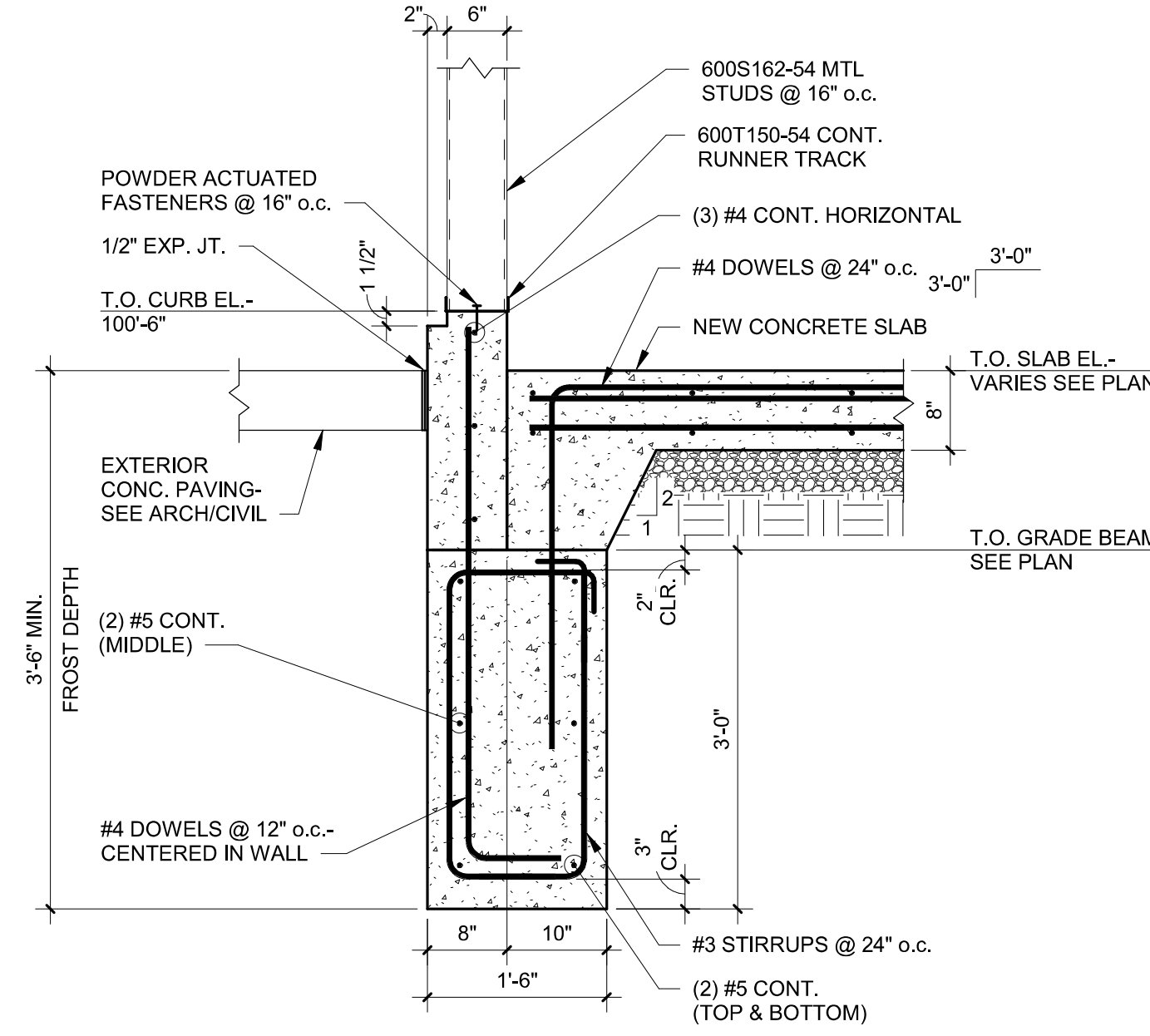
4 SECTION
3/4" = 1'-0"



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



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



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

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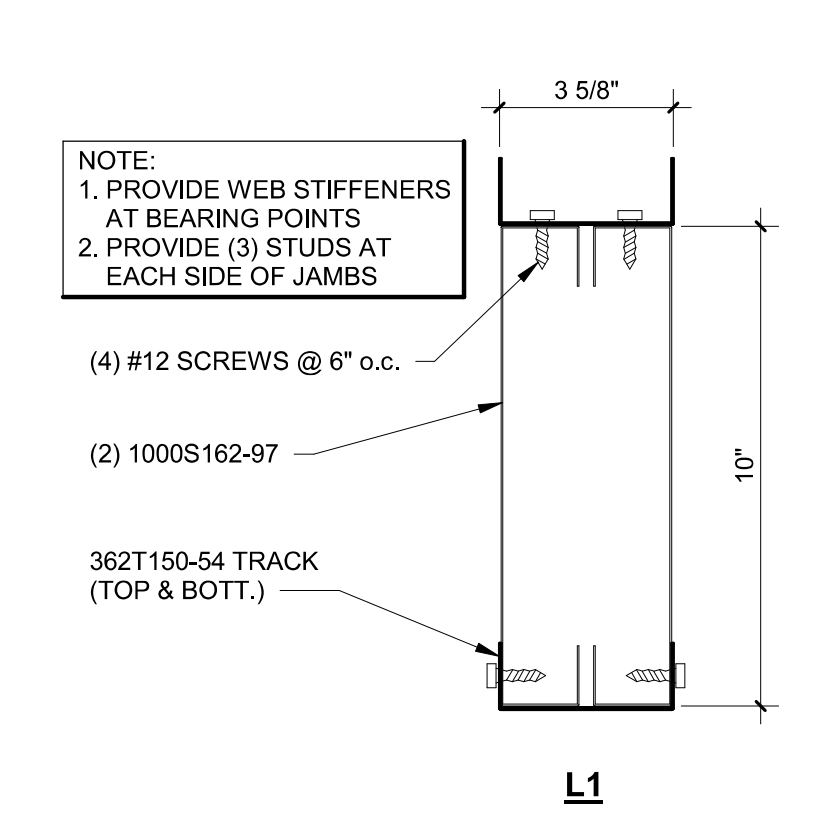
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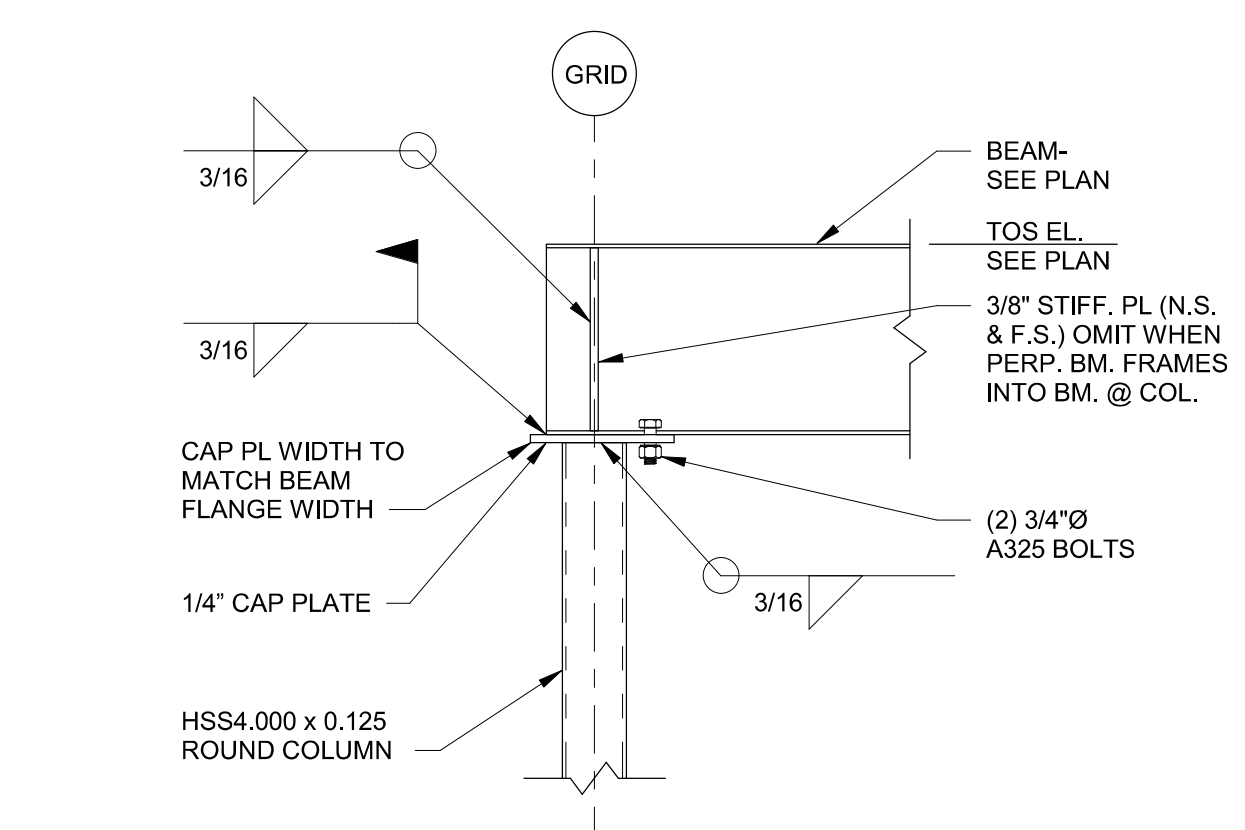
STATE OF MICHIGAN
LUNGSHEH TSAO
ENGINEER
No. 59302
2021.07.22 16:04:22-05'00"

MEZZANINE FRAMING PLAN & MEZZANINE FRAMING DETAILS

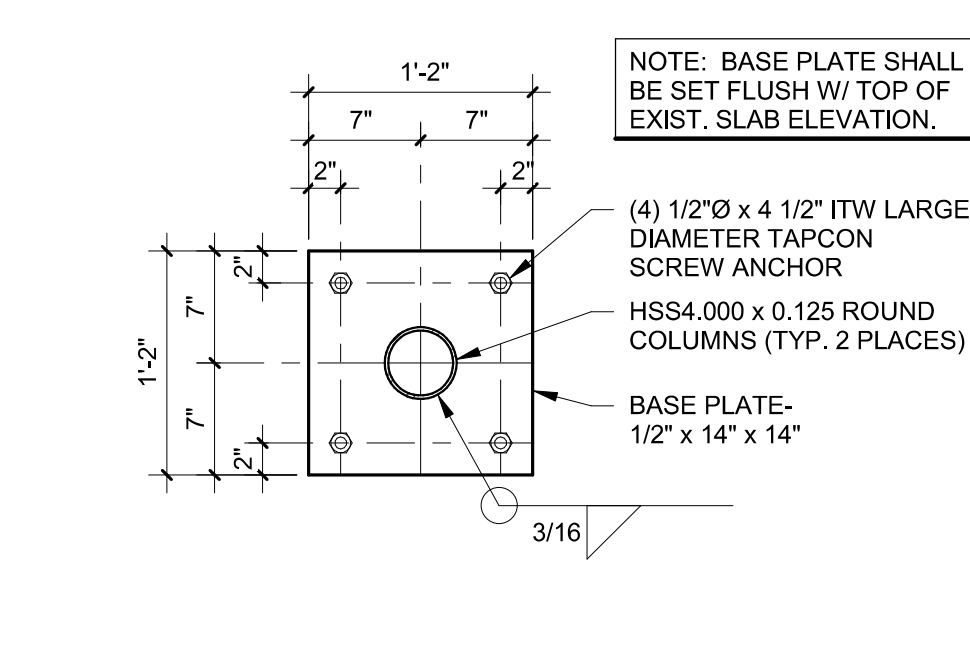
SHEET **YS3.0**



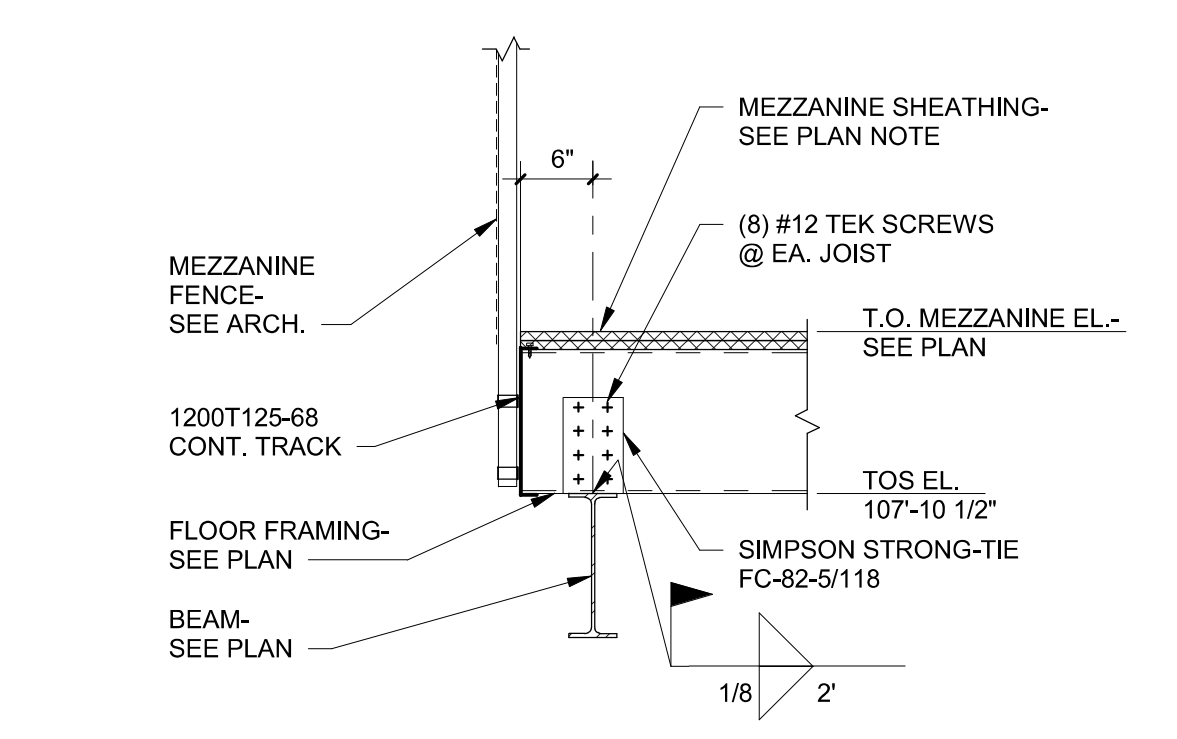
9 TYP. MTL. STUD BOX LINTEL DETAIL
NOT TO SCALE



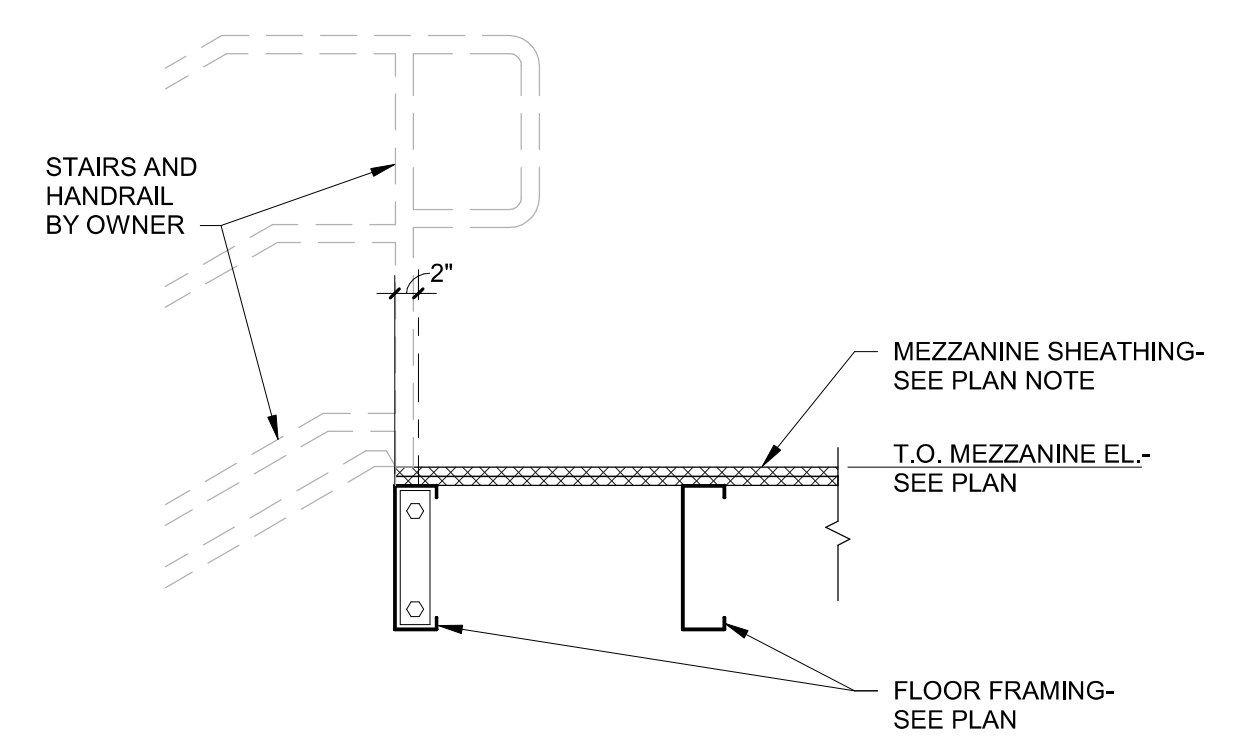
8 TYP. CAP PLATE DETAIL
NOT TO SCALE



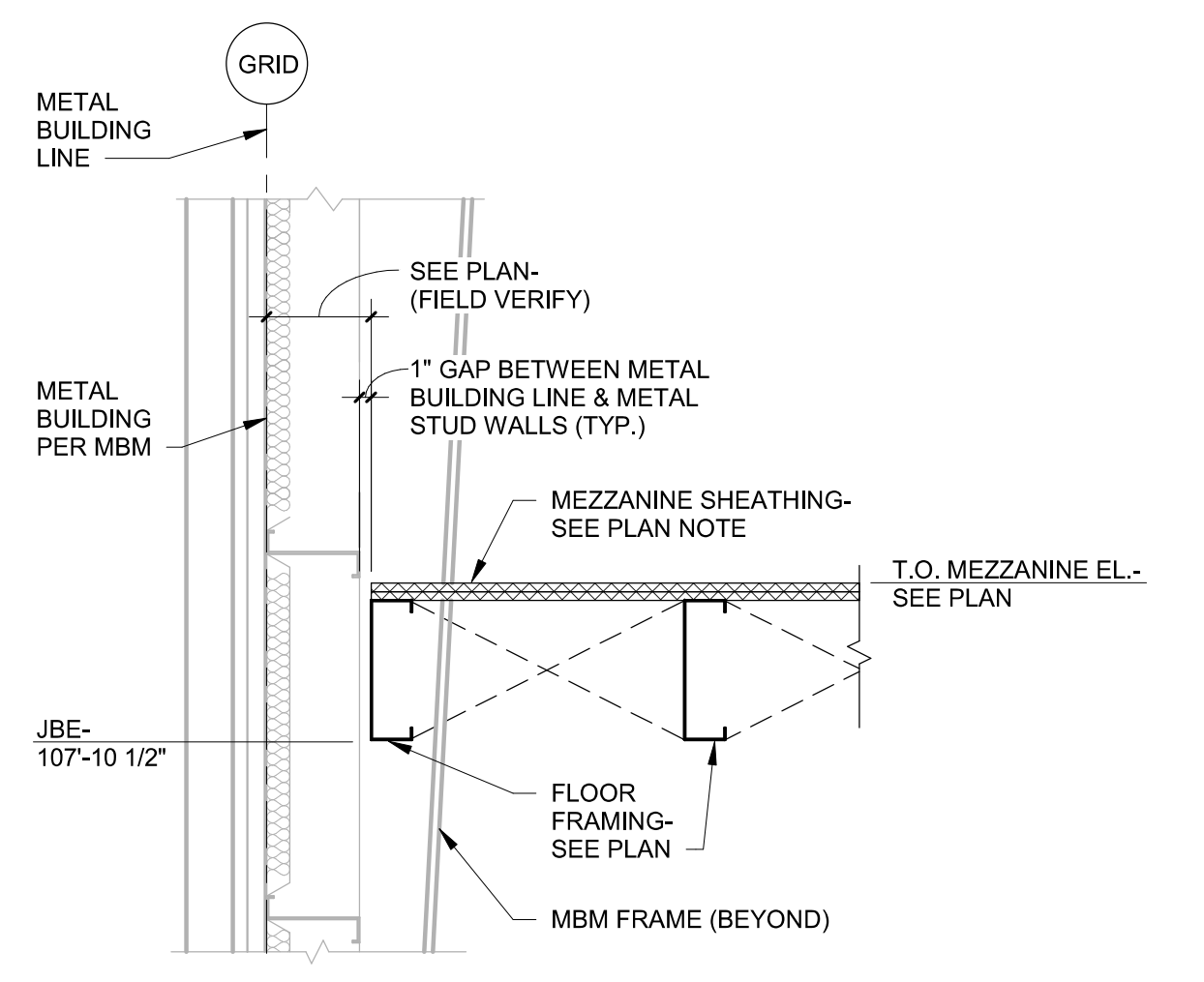
7 TYP. BASE PLATE DETAIL
NOT TO SCALE



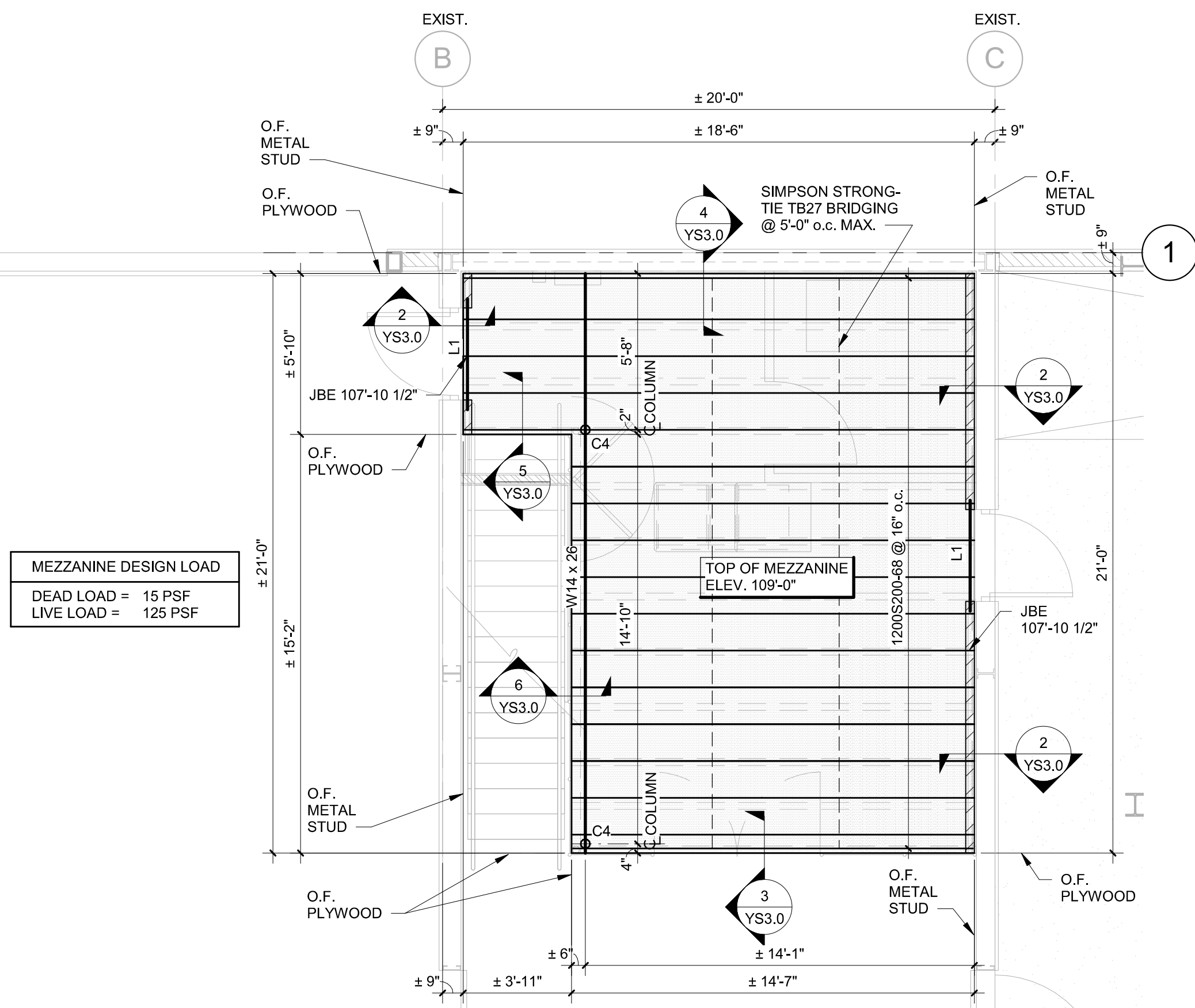
6 SECTION
3/4" = 1'-0"



5 SECTION
3/4" = 1'-0"



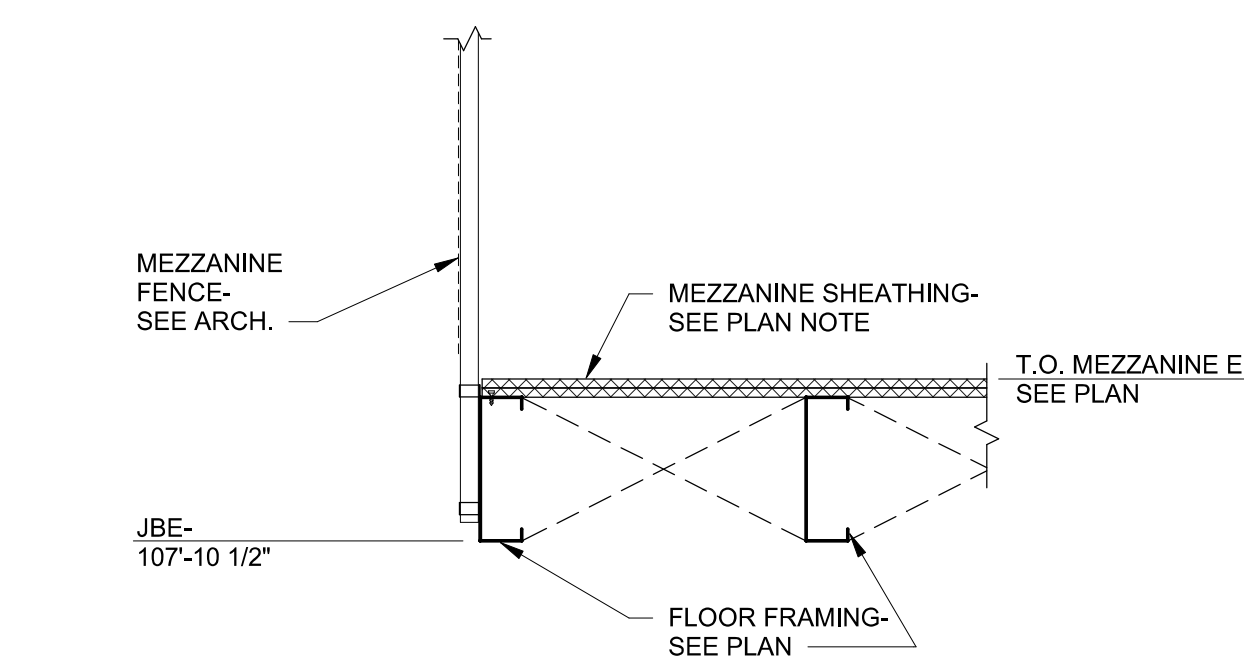
4 SECTION
3/4" = 1'-0"



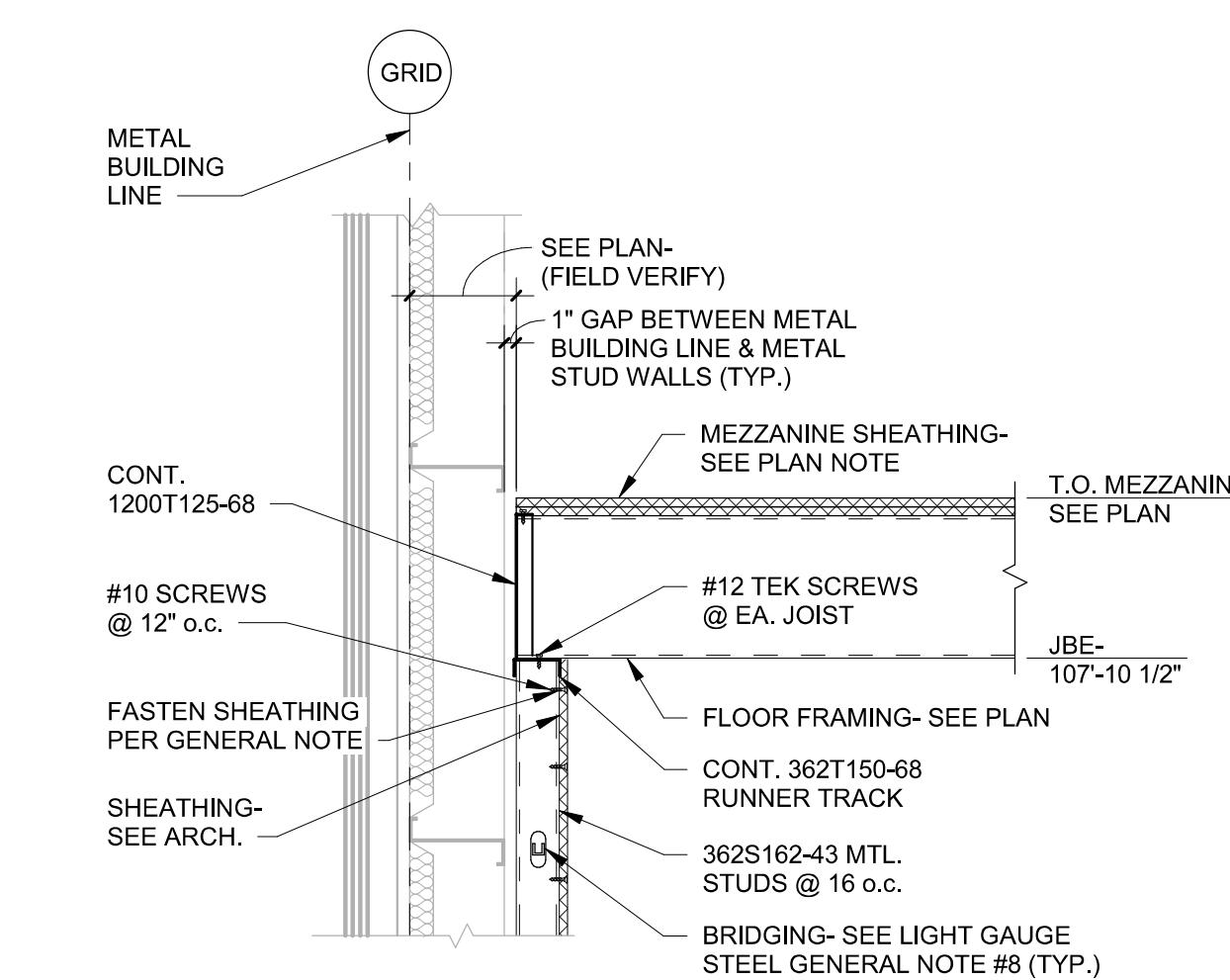
1 MEZZANINE FRAMING PLAN
1/4" = 1'-0"

LEGEND:
O.F. DENOTES OUTSIDE FACE
JBE DENOTES JOIST BEARING ELEVATION
[Symbol] DENOTES LOAD-BEARING STUD WALL
[Symbol] DENOTES EXTENTS OF MEZZANINE FLOOR DECK
± DENOTES FIELD VERIFY DIMENSION
--- DENOTES SIMPSON STRONG-TIE TB27 BRIDGING
C4 DENOTES HSS4,000 x 0.125 ROUND COLUMNS W/ 1/2" x 14" x 14" BASE PLATE AND (4) 1/2" x 4 1/2" ITW LARGE DIAMETER TAPCON SCREW ANCHOR.
L1 DENOTES LINTEL (SEE DETAIL 9/YS3.0)

PLAN NOTES:
1. MEZZANINE FLOOR DECK SHALL BE (2) LAYERS OF 3/4" TONGUE & GROOVE PLYWOOD SHEATHING. ATTACH FIRST LAYER TO FLOOR FRAMING WITH #10 FLAT HEAD SELF DRILLING SCREWS @ 12" o.c. & ATTACH SECOND LAYER OF SHEATHING TO FIRST LAYER WITH GLUE & #10 WOOD SCREWS @ 12" o.c.
2. ALL ELEVATIONS ARE BASED ON EXISTING FINISH FLOOR EL. 100'-0". FIELD VERIFY ACTUAL FINISH FLOOR ELEVATION.
3. ALL JOISTS ARE SPACED 24" o.c. MAXIMUM, FIELD ADJUST AS REQUIRED.
4. SEE DWG. YS1.0 FOR GENERAL NOTES & TYPICAL DETAILS.
5. SEE FOUNDATION PLAN & ARCHITECTURAL DWGS. FOR DIMENSIONS NOT SHOWN.
6. COORDINATE JOIST BEARING ELEVATION W/ METAL BUILDING MANUFACTURER.



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



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

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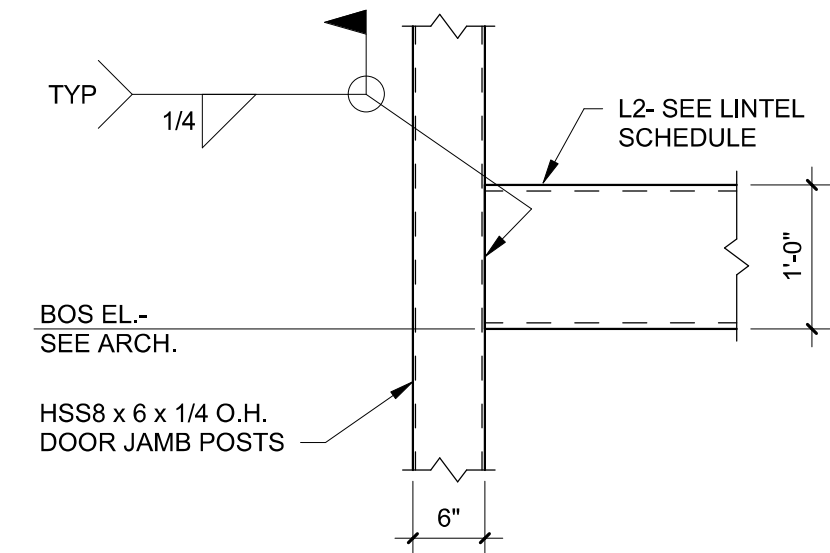
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DOCUMENT DATE: 05/05/21

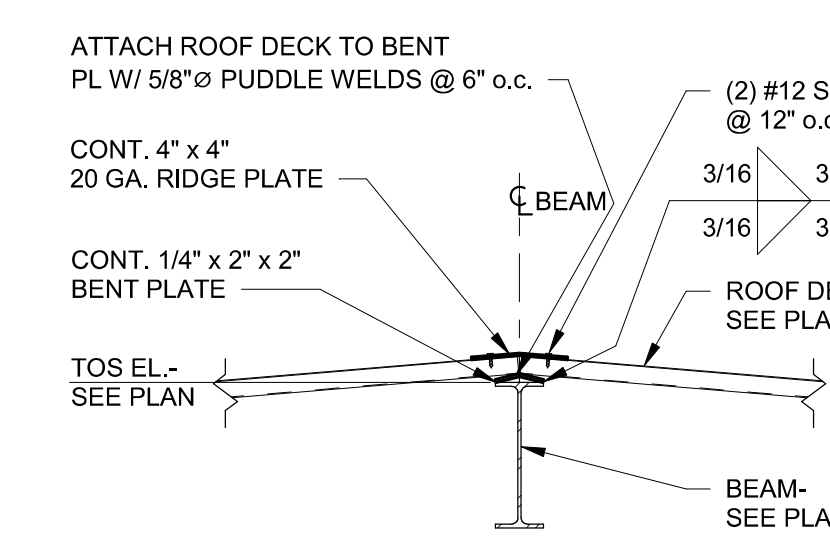
STATE OF MICHIGAN
LUNGSHEN TSAO
ENGINEER
No. 59302
2021.07.22 16:04:28-05'07"

ROOF FRAMING PLAN & TYPICAL DETAILS

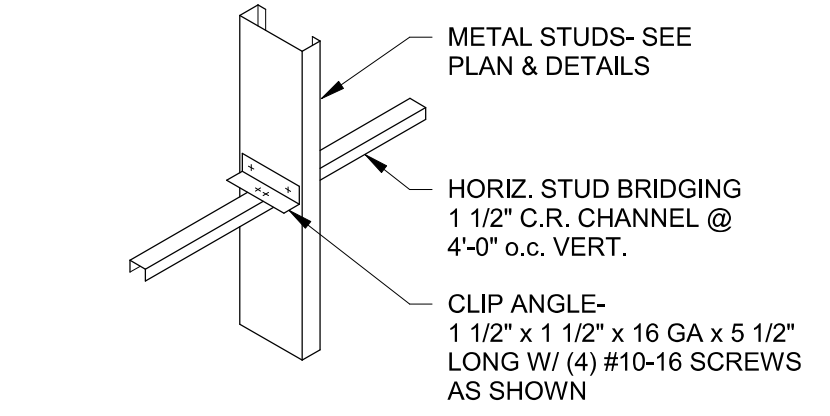
SHEET **YS3.1**



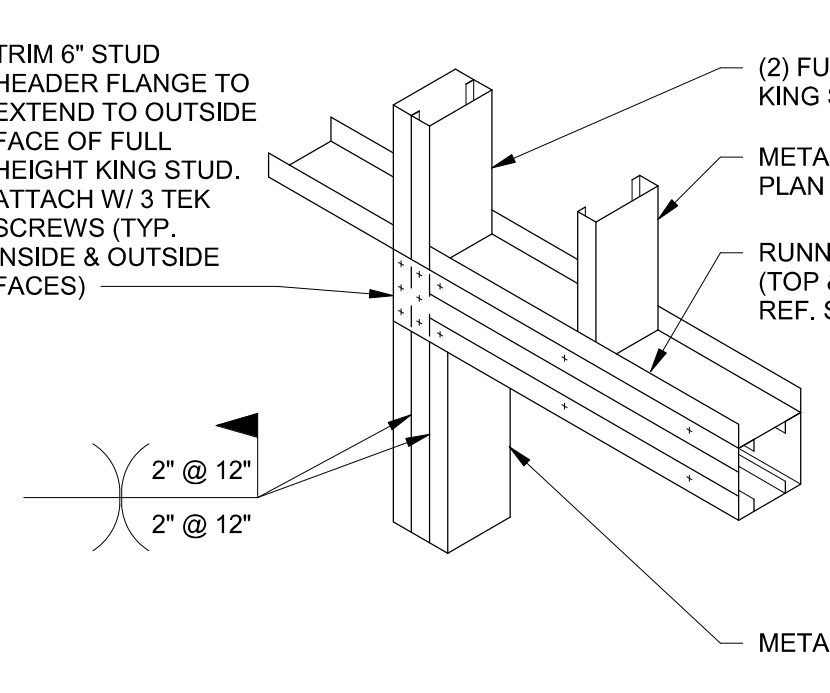
6 DETAIL
3/4" = 1'-0"



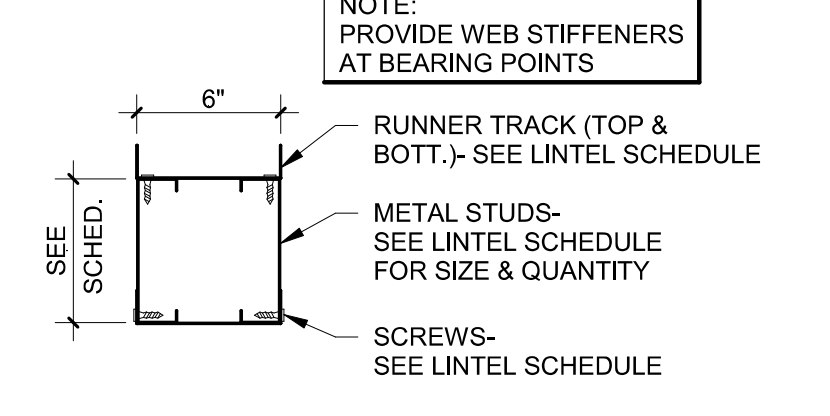
5 SECTION
3/4" = 1'-0"



4 STUD BRIDGING DETAIL
3/4" = 1'-0"



3 STUD HEADER
3/4" = 1'-0"

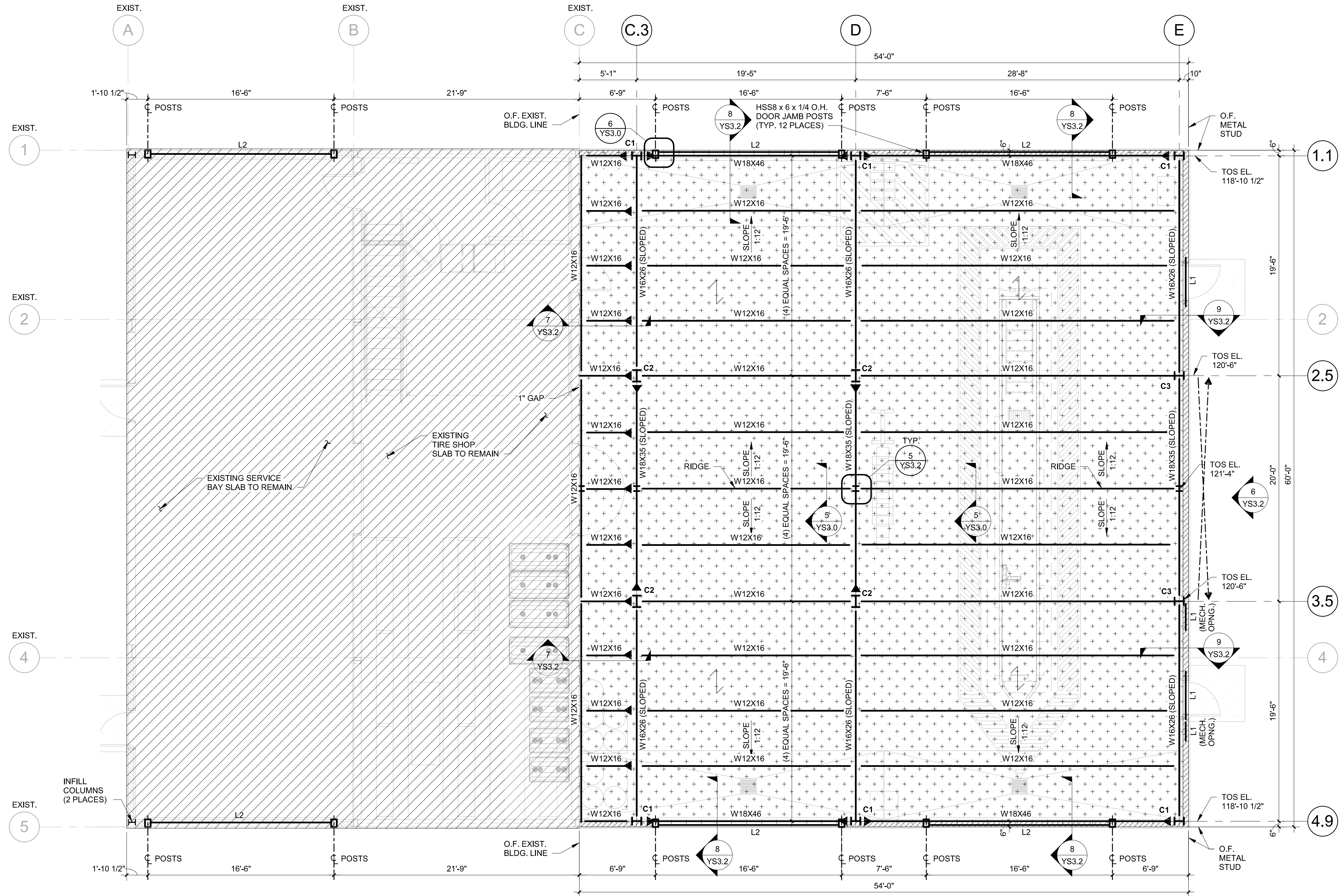


2 LINTEL DETAIL
3/4" = 1'-0"

LINTEL SCHEDULE				
LINTEL MARK	WALL LOCATION	TYPE & SIZE THICKNESS X HEIGHT	ATTACHMENT	REMARKS
L1	6" METAL STUD	(2) 600S162-54 STUDS W/ 600T150-54 TRACK (TOP & BOTTOM)	(4) #10 SCREWS @ 12" o.c.	SEE NOTE #1, #2 & DTL/ 2/S3.1 TYPE I
L2	6" METAL STUD	HSS12 x 8 x 3/8	---	---

LINTEL SCHEDULE NOTES:
1. SEE ARCH. DWGS. FOR EXACT LOCATION OF ALL LINTELS.
2. PROVIDE A MINIMUM OF (1) 600S162-54 JACK STUDS & (2) 600S162-54 KING STUDS @ EACH SIDE JAMBS FOR ALL METAL STUD BOX HEADERS.
3. SEE DTL. 6/YS3.1 FOR HEADER TO JAMB POST CONNECTION. REF ARCH. FOR BOTTOM OF STEEL ELEVATION.

COLUMN SCHEDULE				
COLUMN MARK	COLUMN SIZE	BASE PL SIZE t x B x D	ANCHOR RODS (DIA. x EMBED) (SEE DTL. 3/YS2.0)	CAP PL/CLOSURE PL THICKNESS
C1	W10 x 33	1" x 14" x 16"	(4) 1"Ø F1554 x 1'-8"	3/4"
C2	W12 x 50	1 1/2" x 14" x 21"	(6) 1"Ø F1554 x 1'-8"	3/4"
C3	W10 x 33	1 1/4" x 14" x 20"	(4) 1"Ø F1554 x 1'-8"	3/4"



1 ROOF FRAMING PLAN
3/16" = 1'-0"

- PLAN NOTES:**
- ROOF DECK: 1 1/2" DEEP, 22 GA. PAINTED STEEL DECK. (SEE STEEL DECK GENERAL NOTES AND REF. YS1.0 FOR STEEL DECK NOTES FOR ATTACHMENT REQUIREMENTS.)
 - TOP OF STEEL DENOTES TOP OF MAIN STEEL.
 - TOP OF STEEL ELEVATION VARIES- SEE PLAN.
 - ALL ELEVATIONS ARE BASED ON EXISTING TIRE SHOP FINISHED FLOOR EL. 100'-0". FIELD VERIFY ACTUAL FINISHED FLOOR ELEVATION.
 - SEE DWG. YS1.0 FOR GENERAL NOTES.
 - SEE FOUNDATION PLAN & ARCHITECTURAL DWGS. FOR DIMENSIONS NOT SHOWN.

- LEGEND:**
- C1 COLUMN MARK (SEE COL. SCHEDULE ON THIS SHEET)
 - O.F. DENOTES OUTSIDE FACE
 - TOS DENOTES TOP OF STEEL ELEVATION
 - [112'-6"] DENOTES TOP OF BEAM ELEVATION
 - L1 DENOTES LINTEL (SEE LINTEL SCHEDULE THIS SHEET)
 - [---] DENOTES LIMITS OF 1 1/2" METAL ROOF DECK (SEE PLAN NOTE #1)
 - SLOPE 1:12 DENOTES DIRECTION & PITCH OF ROOF SLOPE (COORD. W/ ARCH.)
 - [---] DENOTES EXTERIOR METAL STUD WALL
 - [---] DENOTES LOCATION OF DIAGONAL BRACING REF YS3.2
 - [---] DENOTES DECK SPAN DIRECTION
 - [---] DENOTES MOMENT CONNECTION REF. 4/YS3.2
 - [---] DENOTES ELEVATION VIEW- SEE SHEET YS3.2

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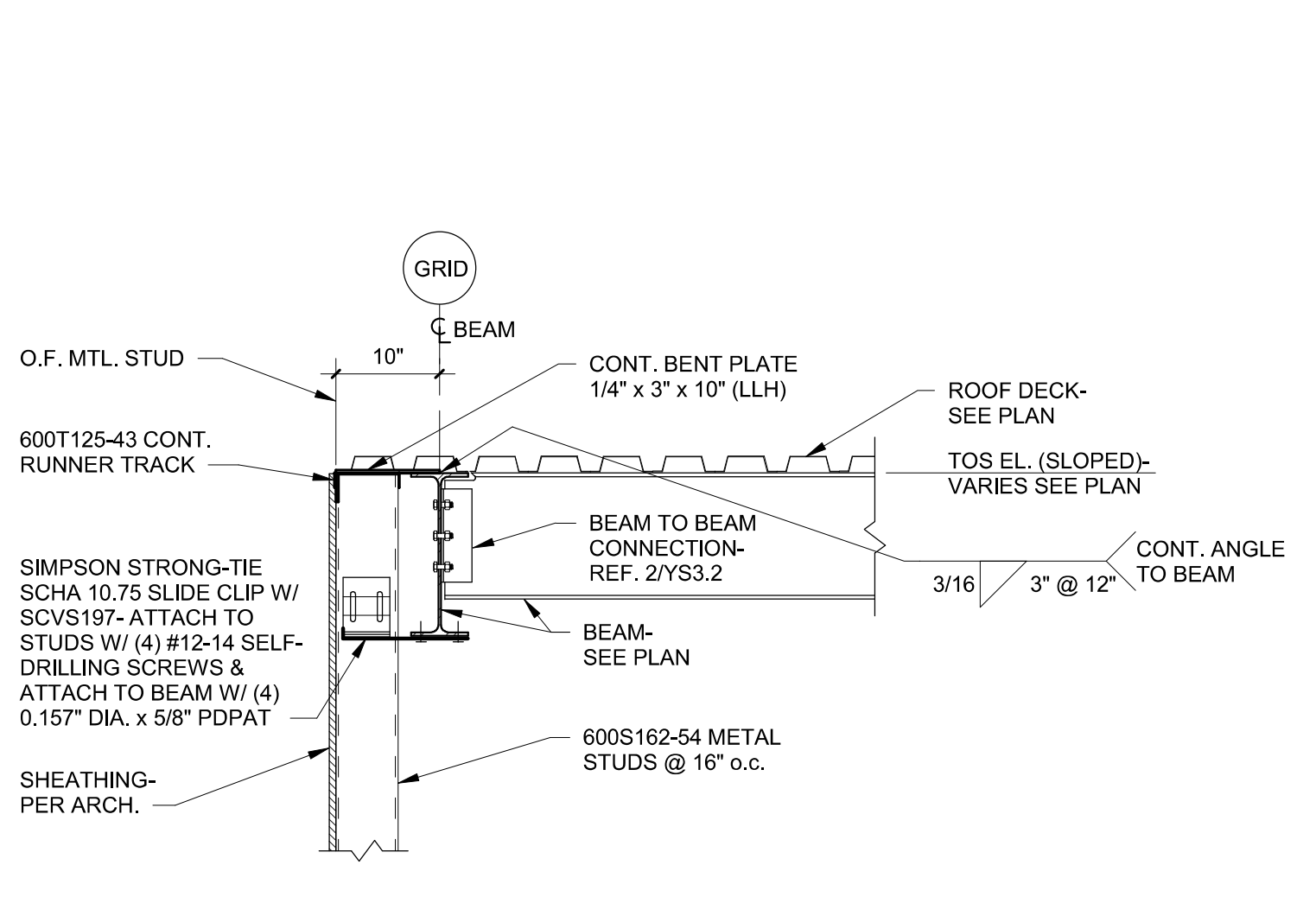
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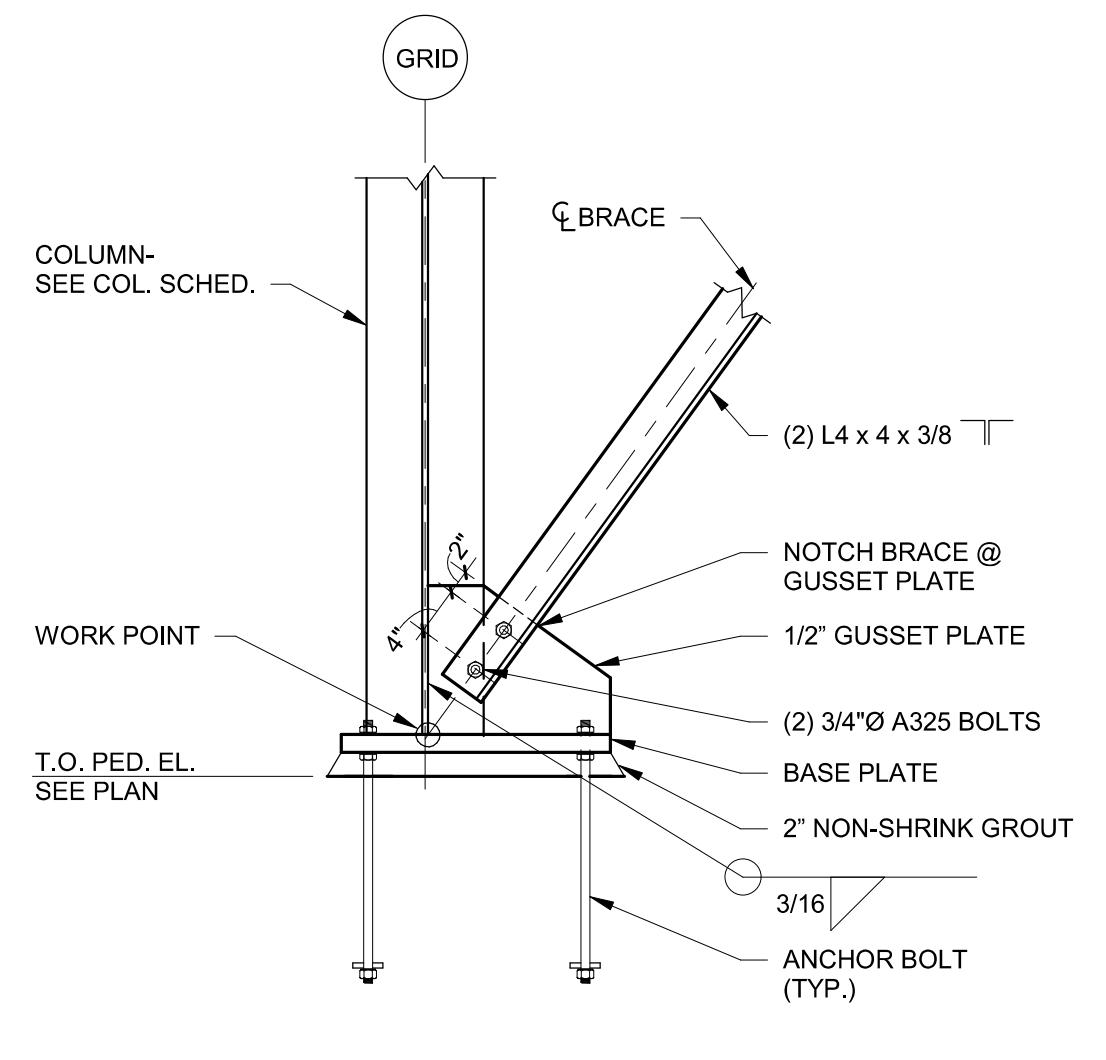
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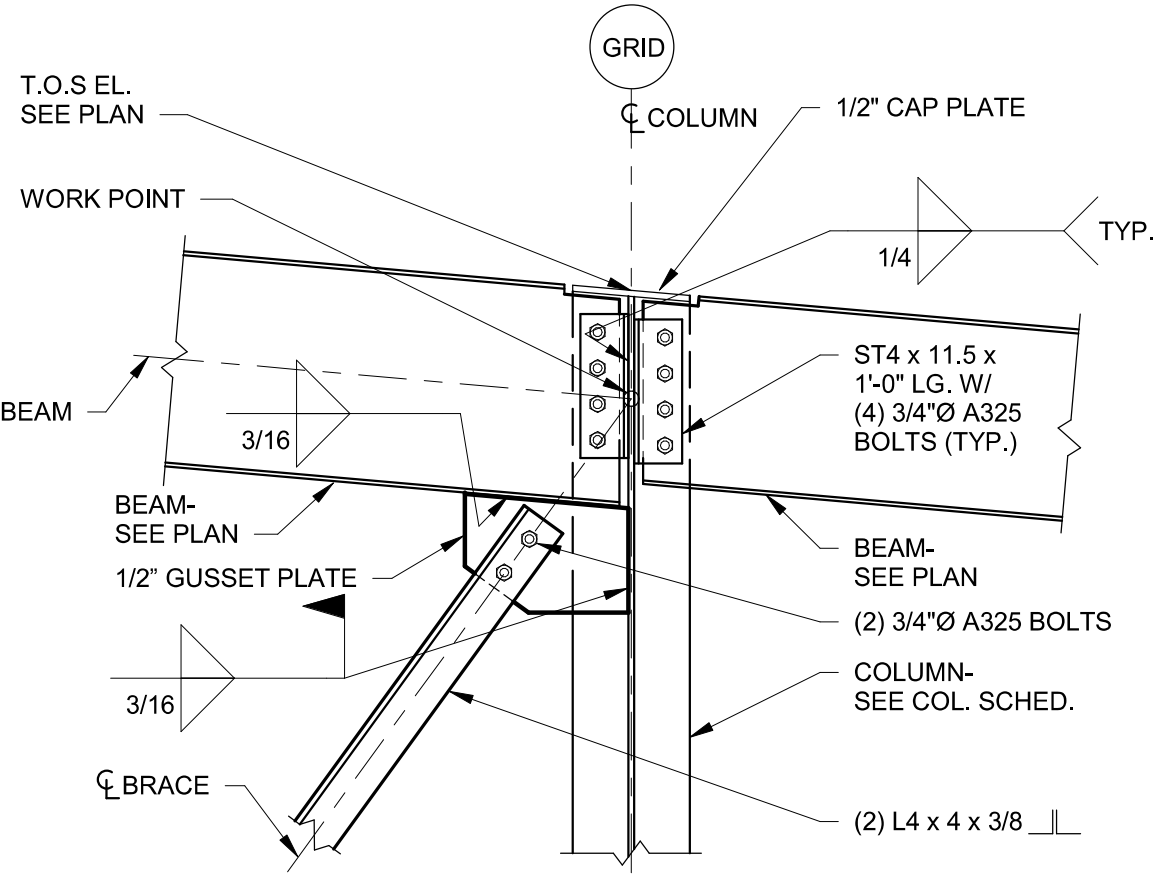
ROOF FRAMING DETAILS
SHEET: **YS3.2**



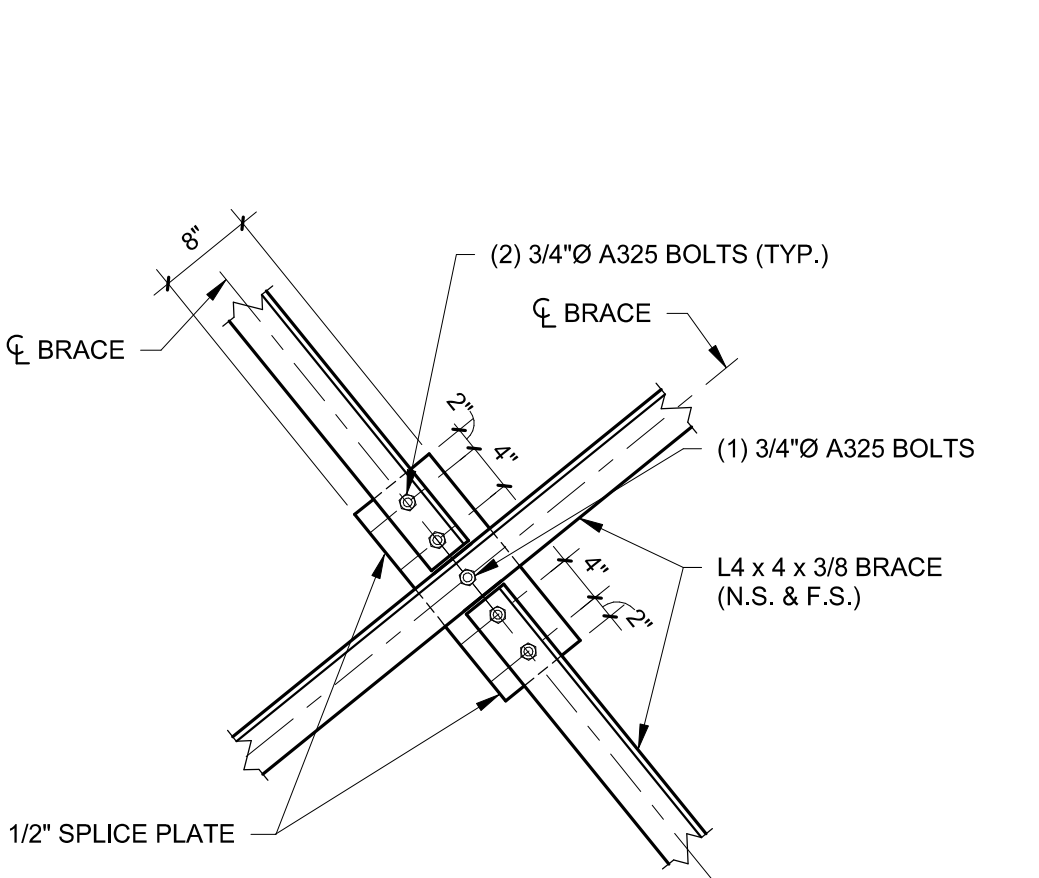
9 SECTION
3/4" = 1'-0"



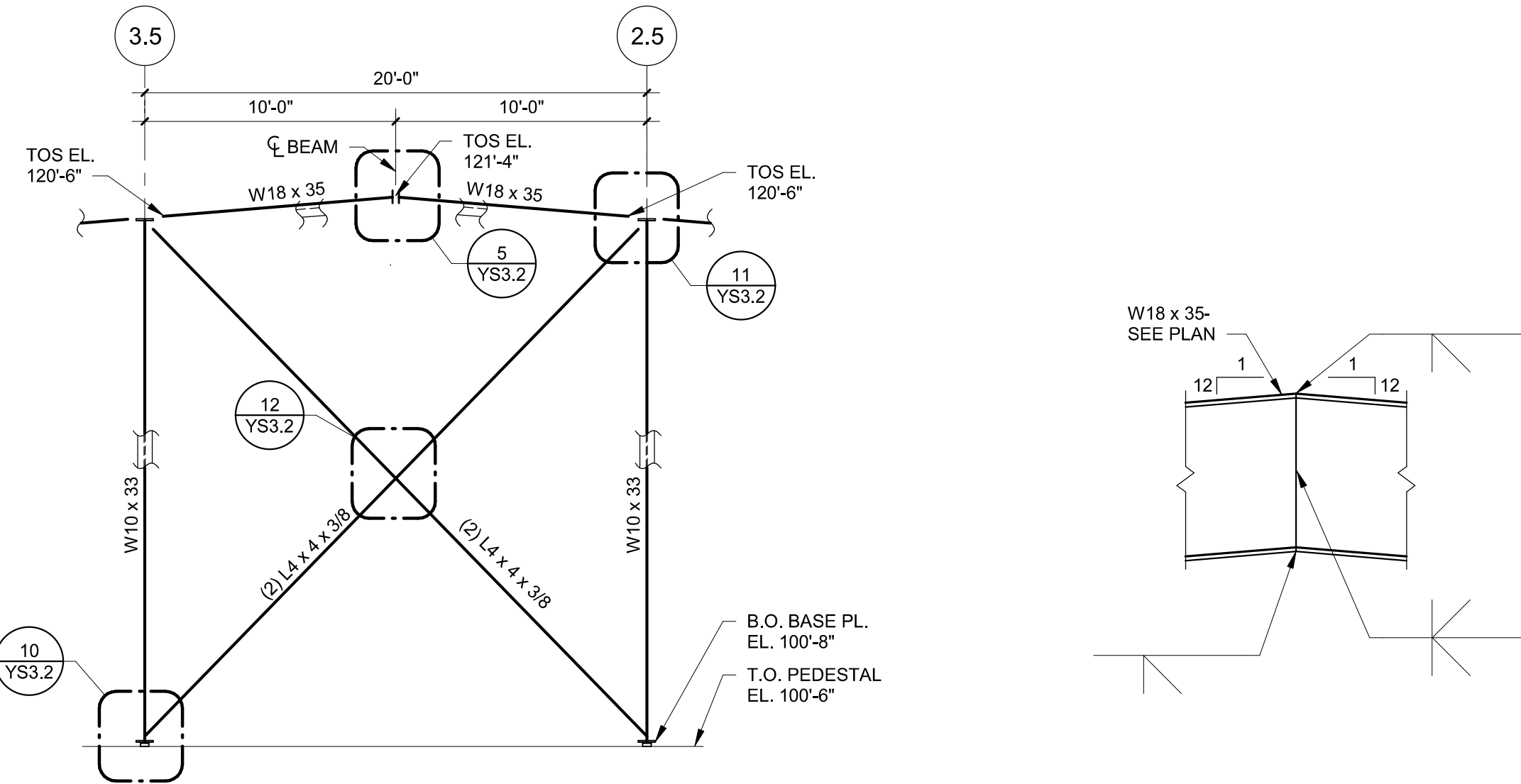
10 DETAIL
3/4" = 1'-0"



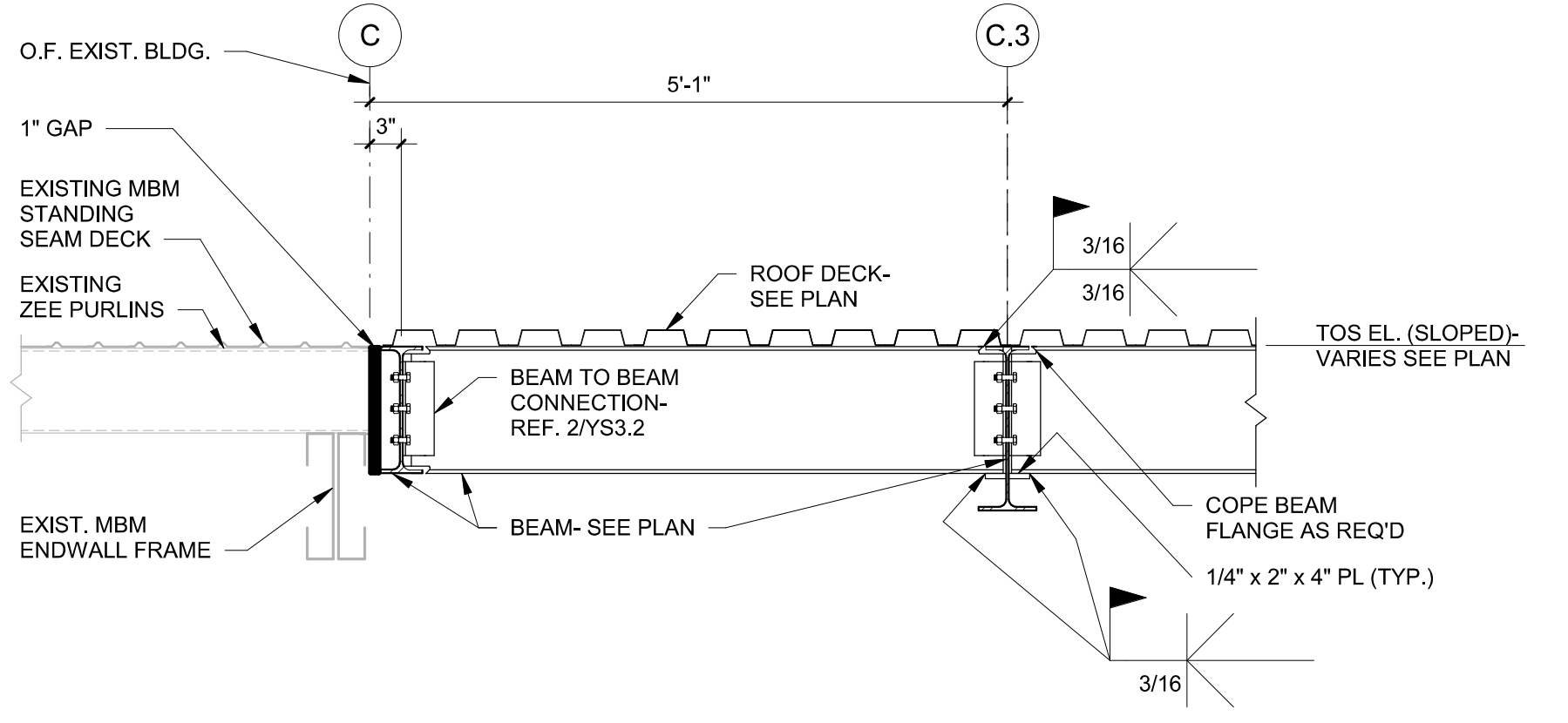
11 DETAIL
3/4" = 1'-0"



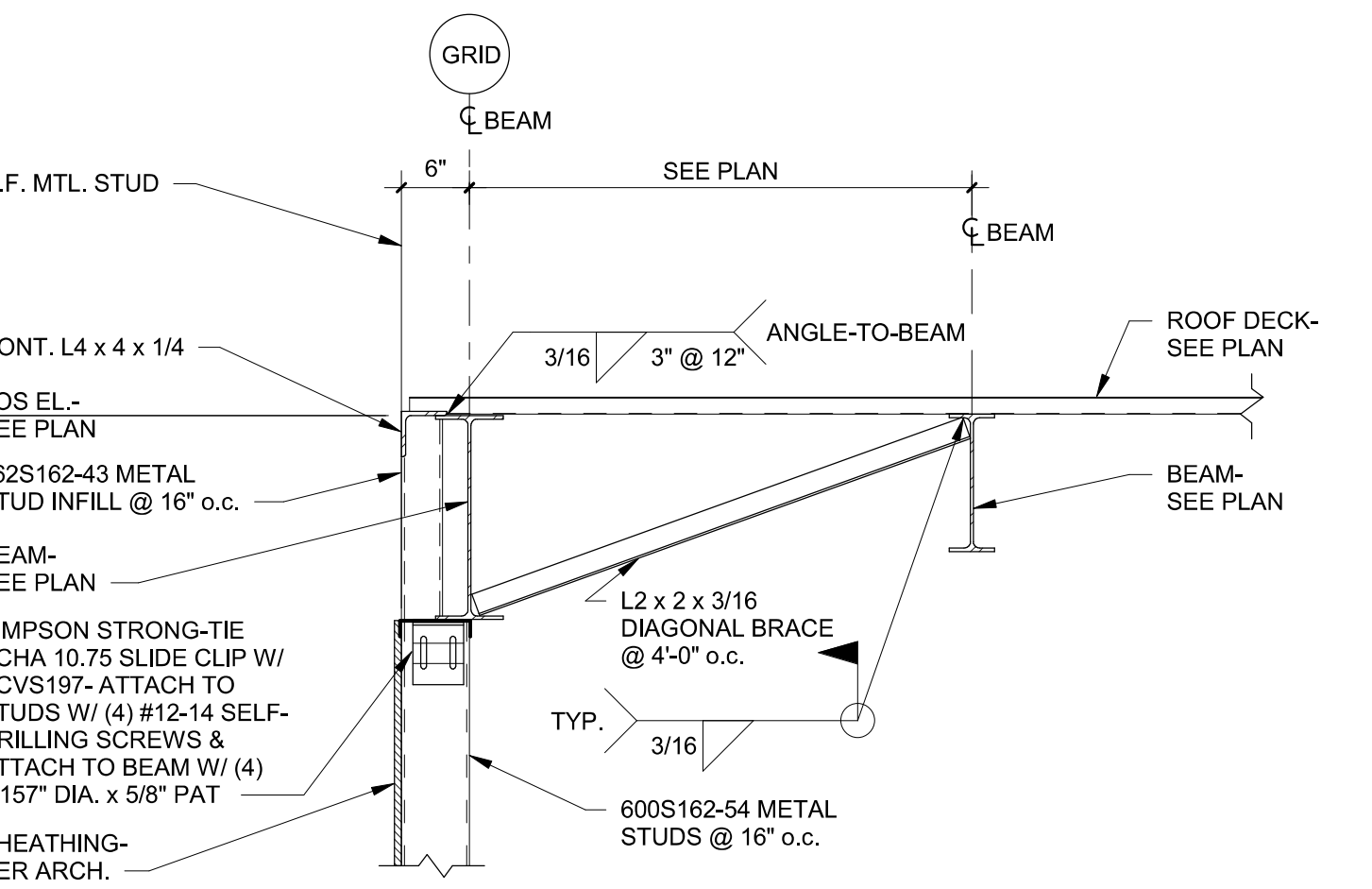
12 DETAIL
3/4" = 1'-0"



6 PARTIAL ELEVATION @ GRIDLINE E
3/16" = 1'-0"



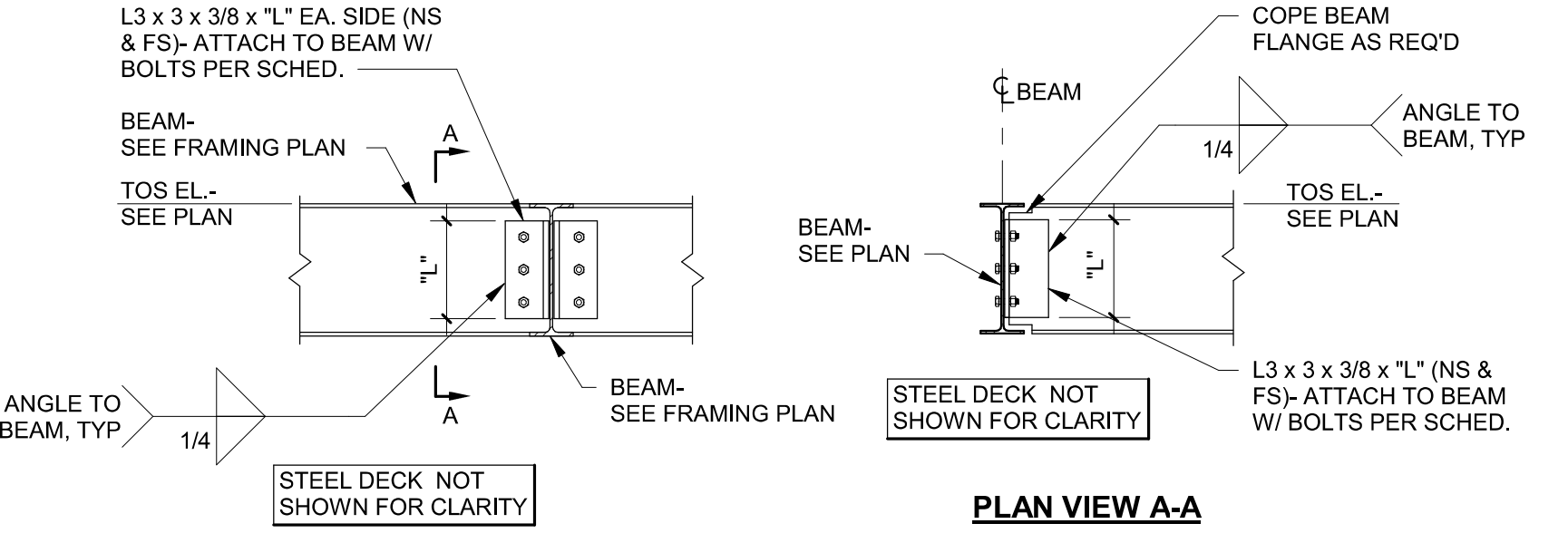
7 SECTION
3/4" = 1'-0"



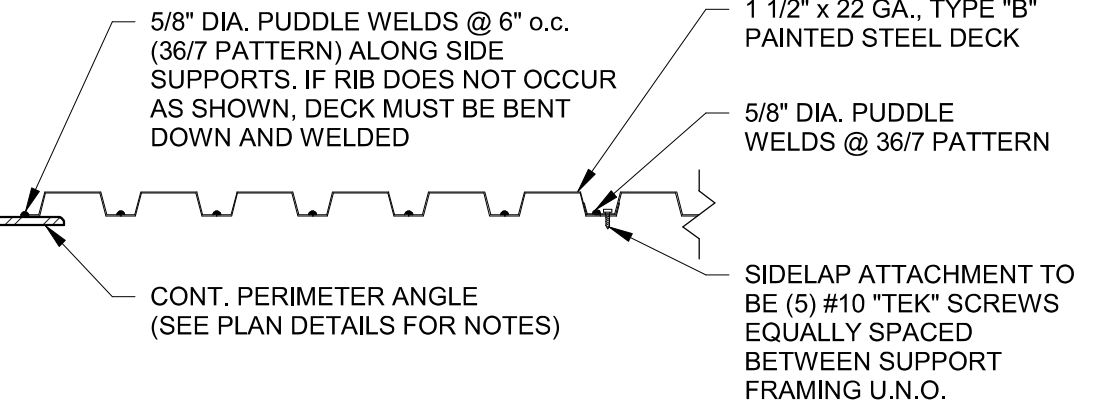
8 SECTION
3/4" = 1'-0"

BEAMS AND BOLTS SCHEDULE			
SUPPORTED BEAM SIZE	ANGLE LENGTH (L)	NUMBER OF BOLTS	REMARKS
W8	6"	(6) 3/4" A325	
W12, W14	9"	(6) 3/4" A325	
W18	1'-0"	(8) 3/4" A325	

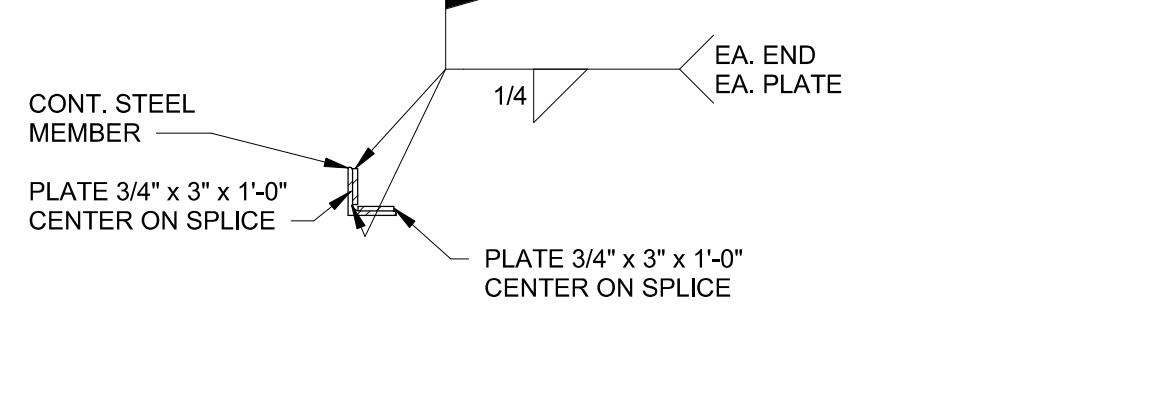
NOTE:
1. PROVIDE 5/8" DIA. PUDDLE WELDS @ 6" o.c. FOR END LAPS (MIN. 3" LAP) AND ENDS OF EACH DECK RUN.
2. ATTACHMENT AROUND ROOF OPENINGS SHALL BE WELDS @ 6" o.c.



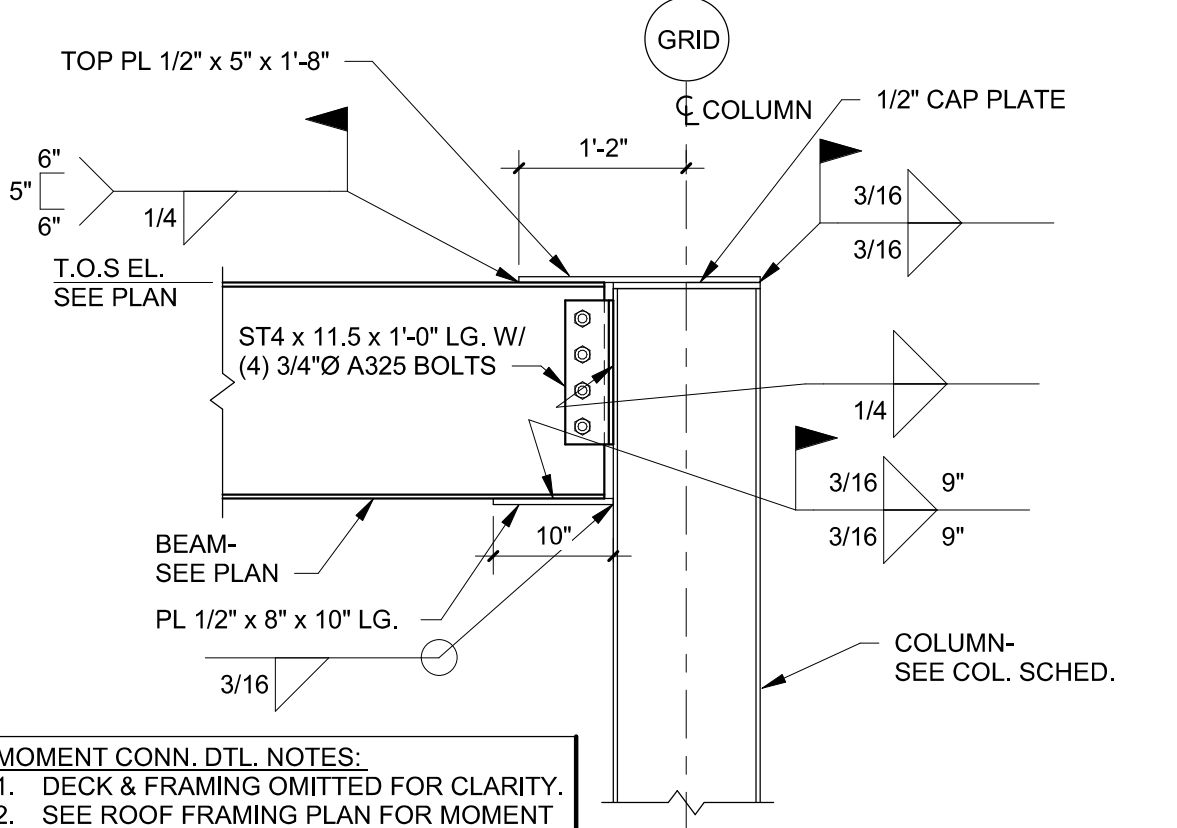
2 TYP. BEAM TO BEAM CONN. DETAIL
3/4" = 1'-0"



1 TYP. 1 1/2" ROOF DECK FASTENING PATTERN DETAIL
NOT TO SCALE



3 CONT. ANGLE SPLICE DETAIL
3/4" = 1'-0"



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

MOMENT CONN. DTL. NOTES:
1. DECK & FRAMING OMITTED FOR CLARITY.
2. SEE ROOF FRAMING PLAN FOR MOMENT CONNECTION LOCATIONS.

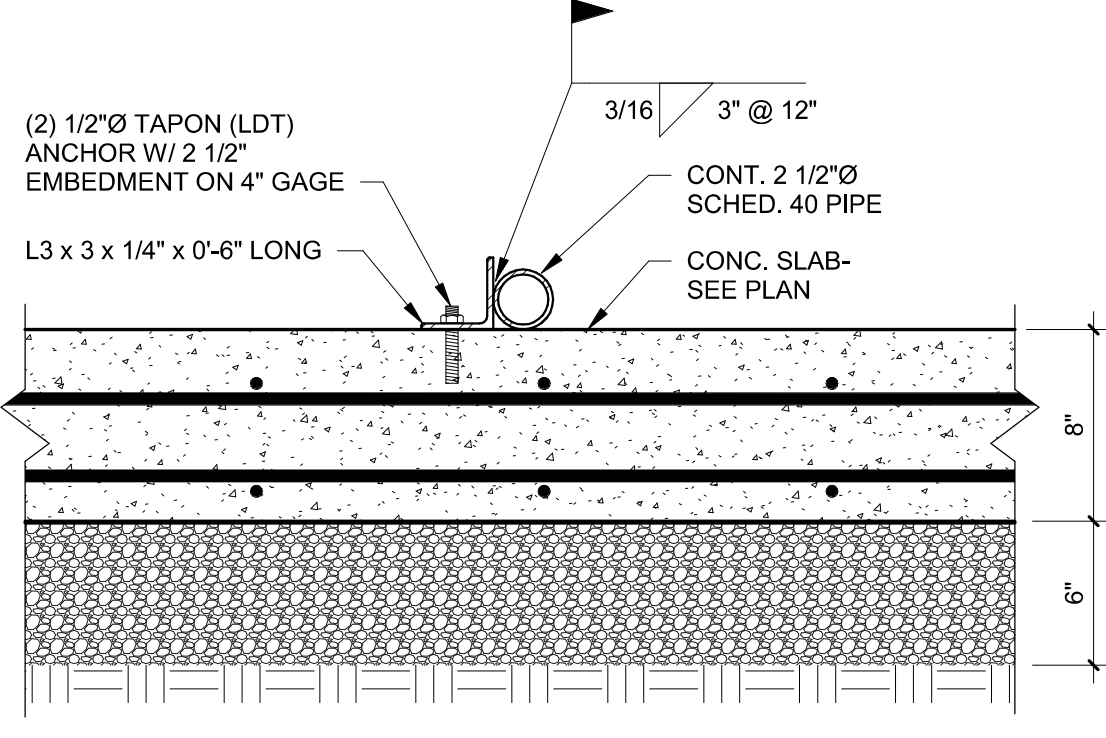
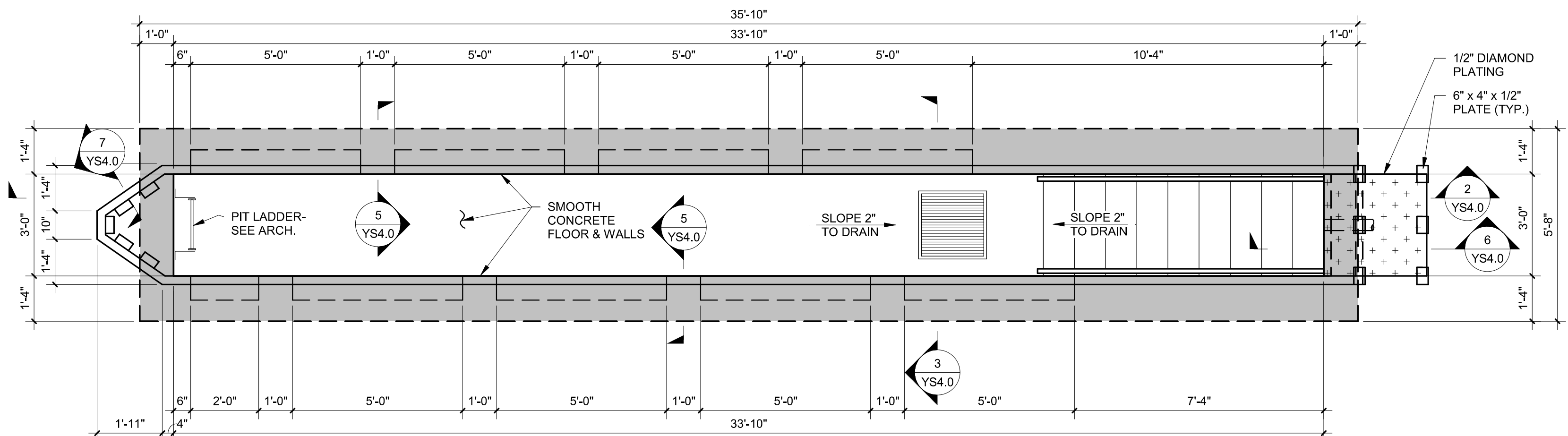
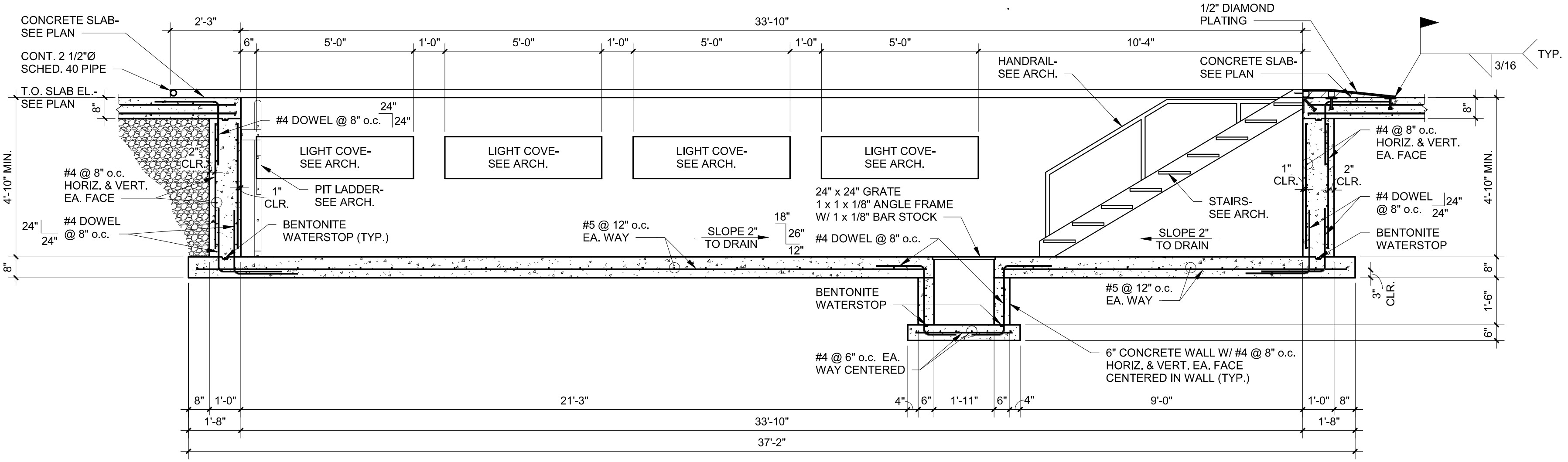
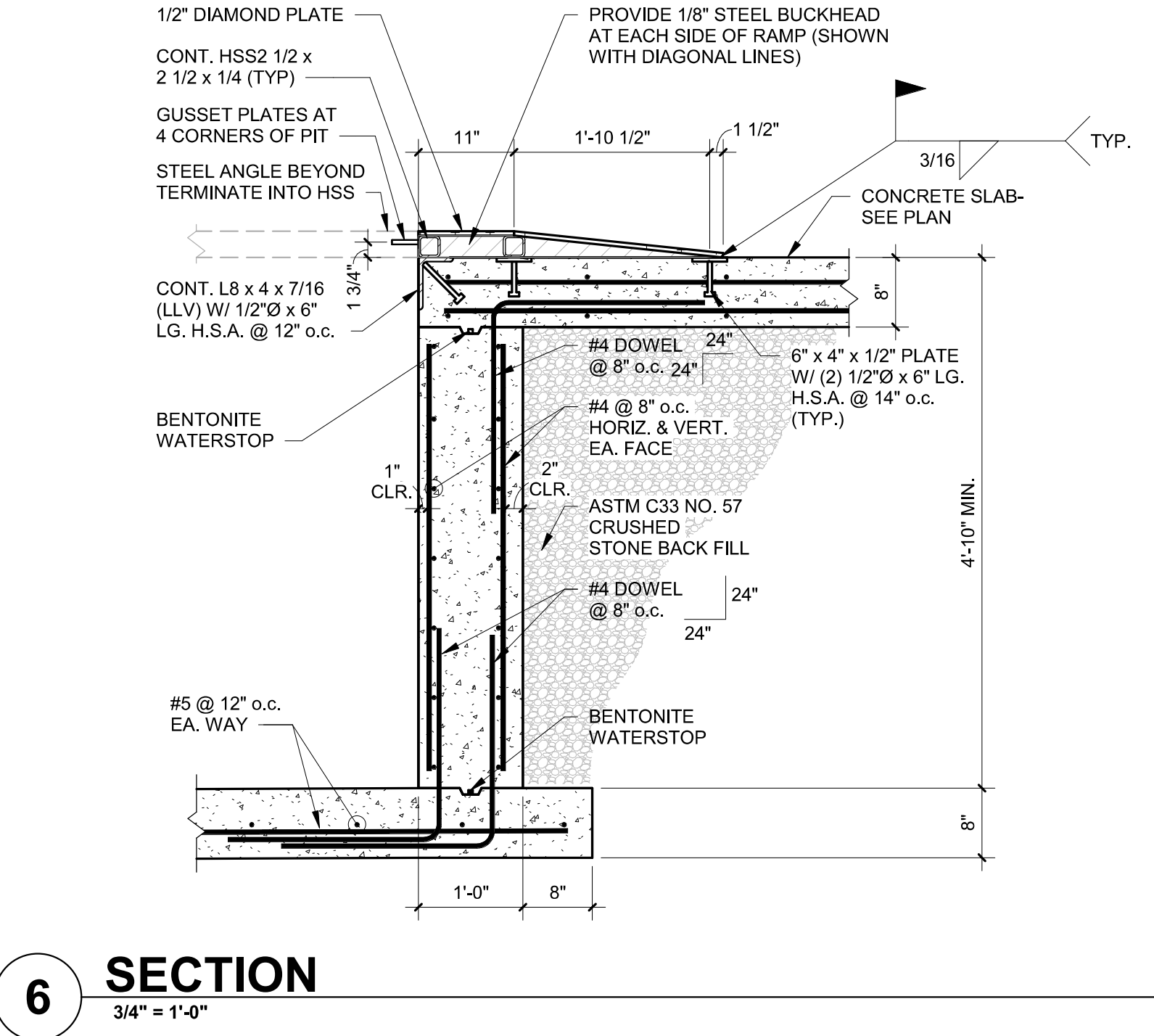
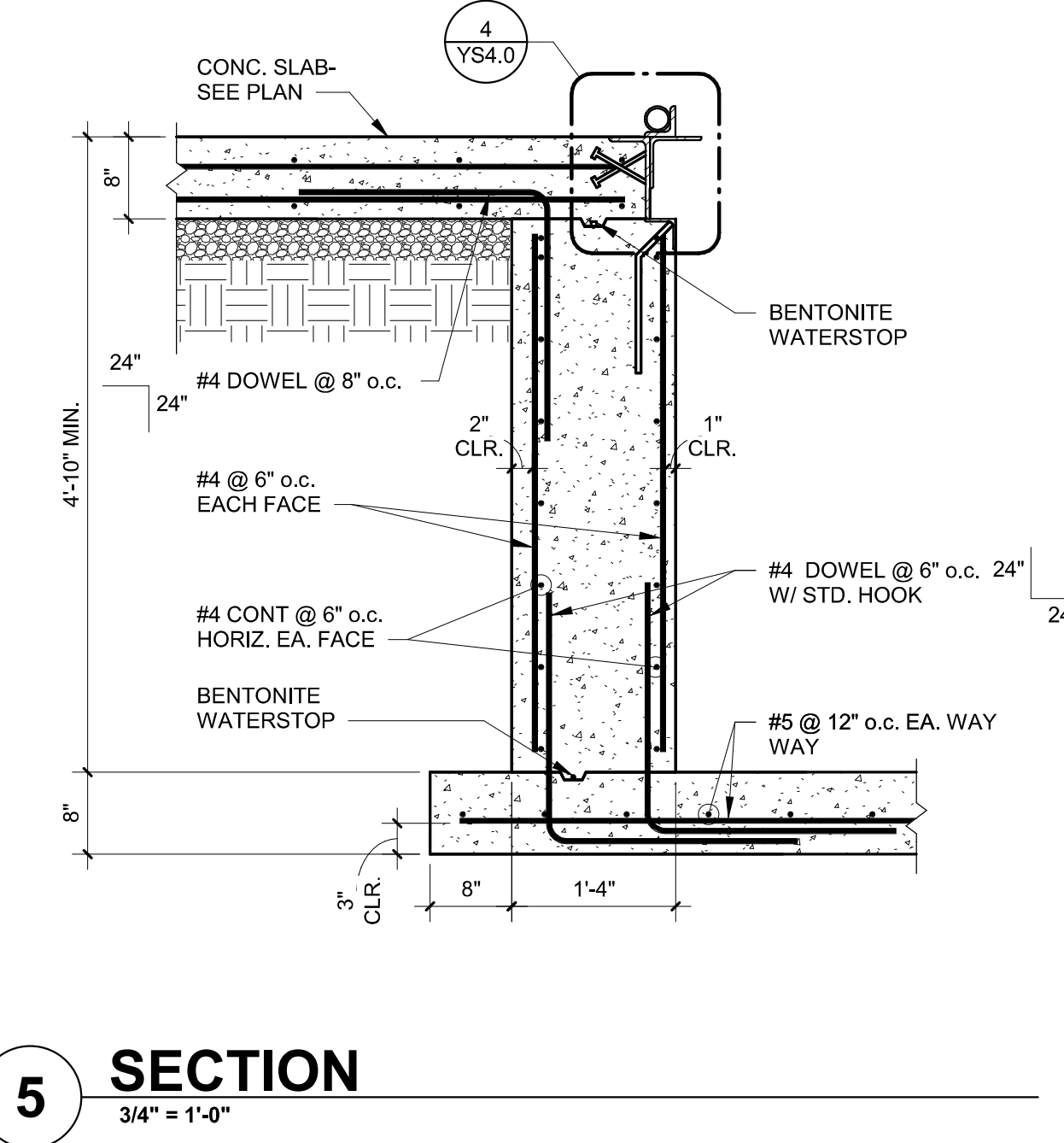
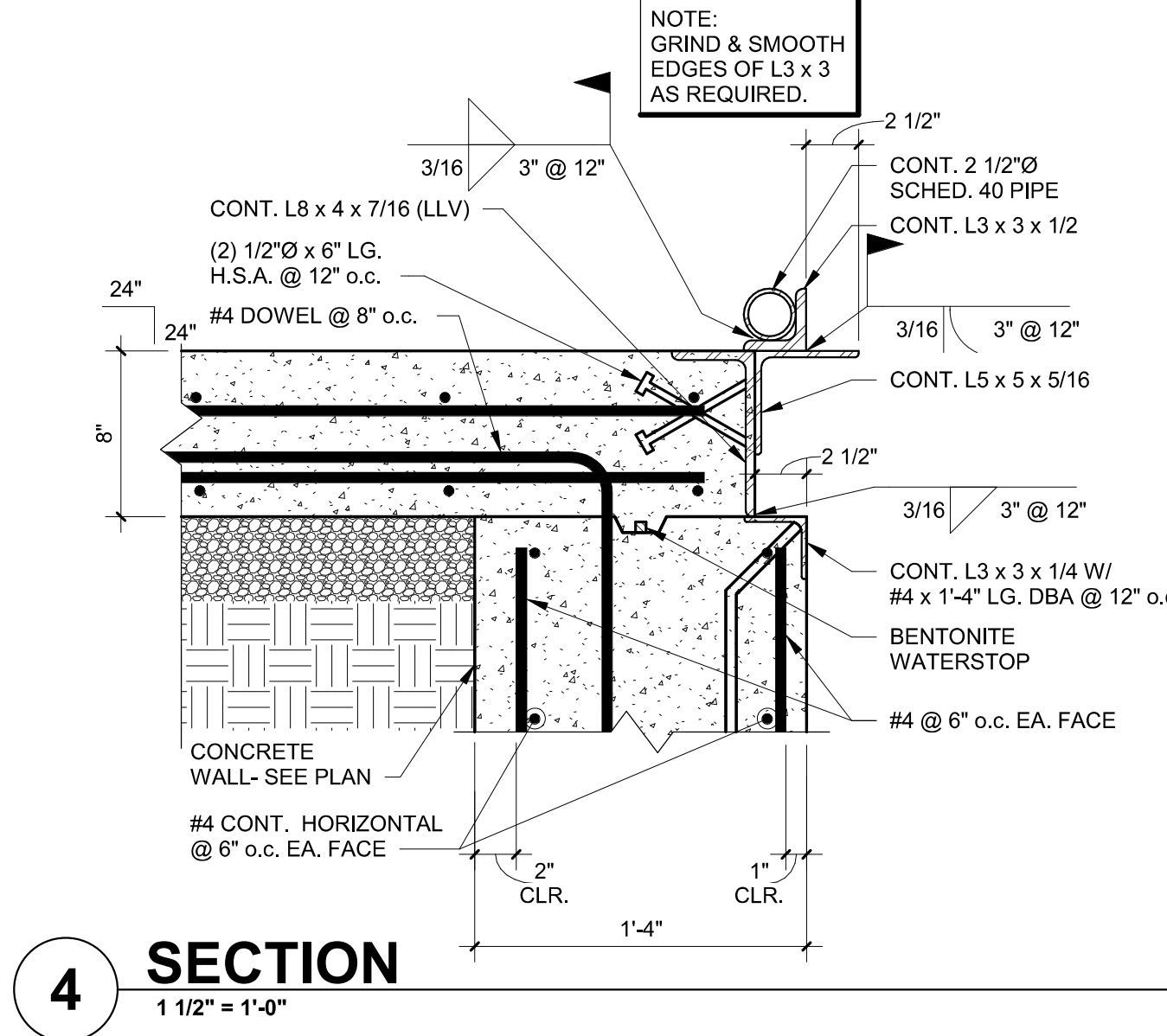
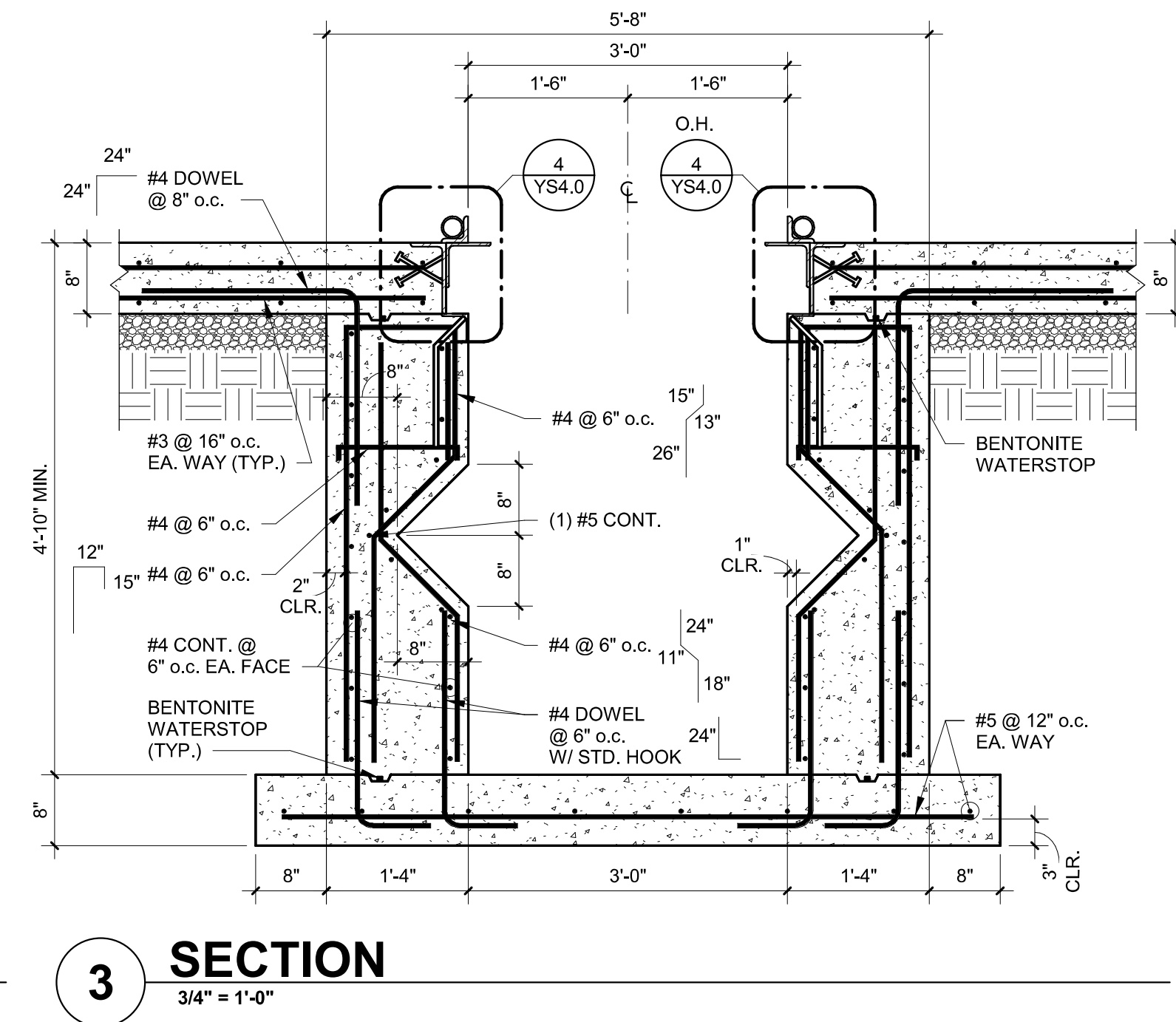
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TSAO
ENGINEER
No. 59302

2021.07.22 16:04:40-05'00"

LUBE PIT PLAN AND PIT DETAILS



1 LUBE PIT PLAN
3/8" = 1'-0"

2 LUBE PIT SECTION
3/8" = 1'-0"

7 SECTION
1 1/2" = 1'-0"

6 SECTION
3/4" = 1'-0"

5 SECTION
3/4" = 1'-0"

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

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

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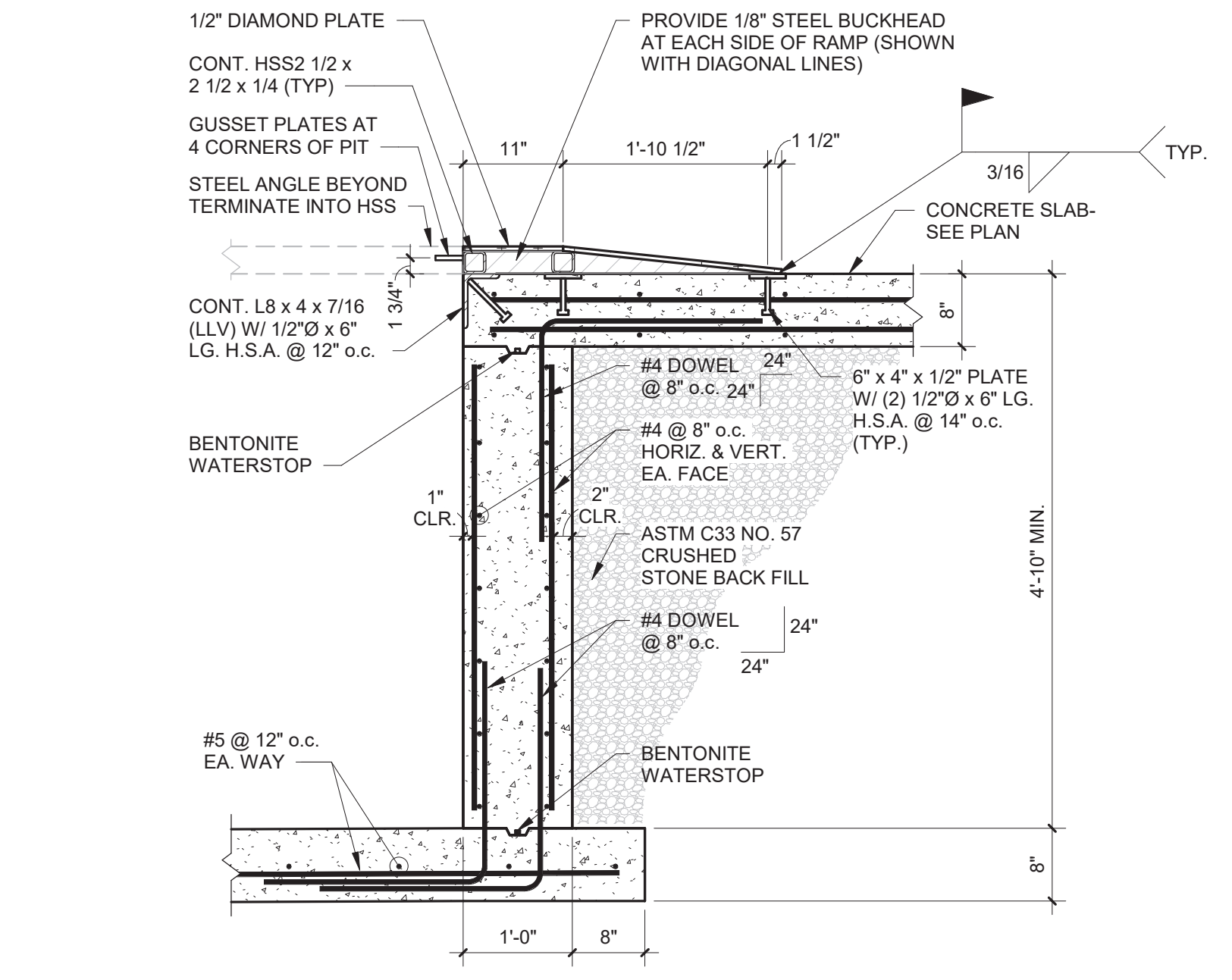
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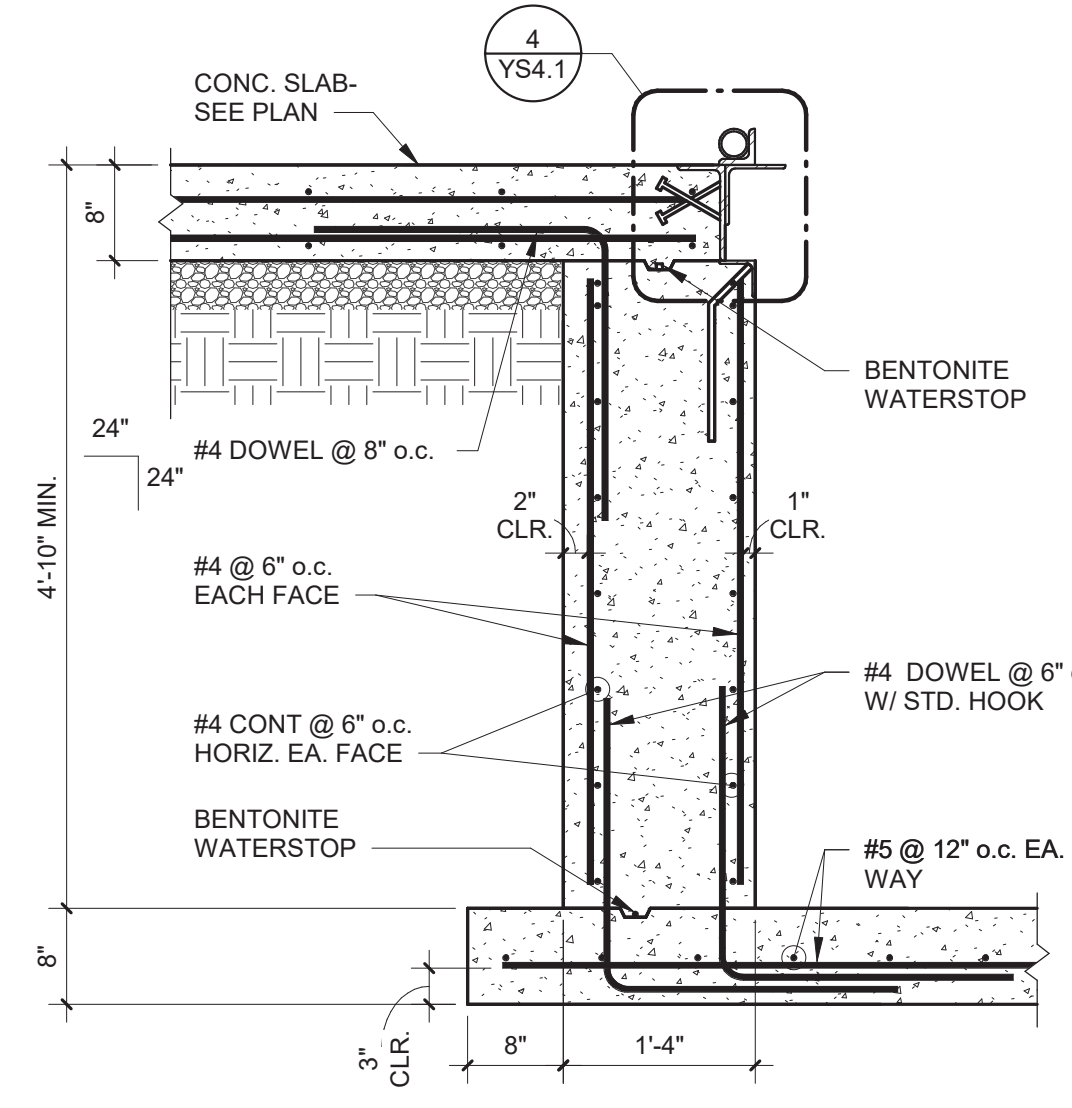
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**LUBE PIT PLAN
 AND PIT
 DETAILS**

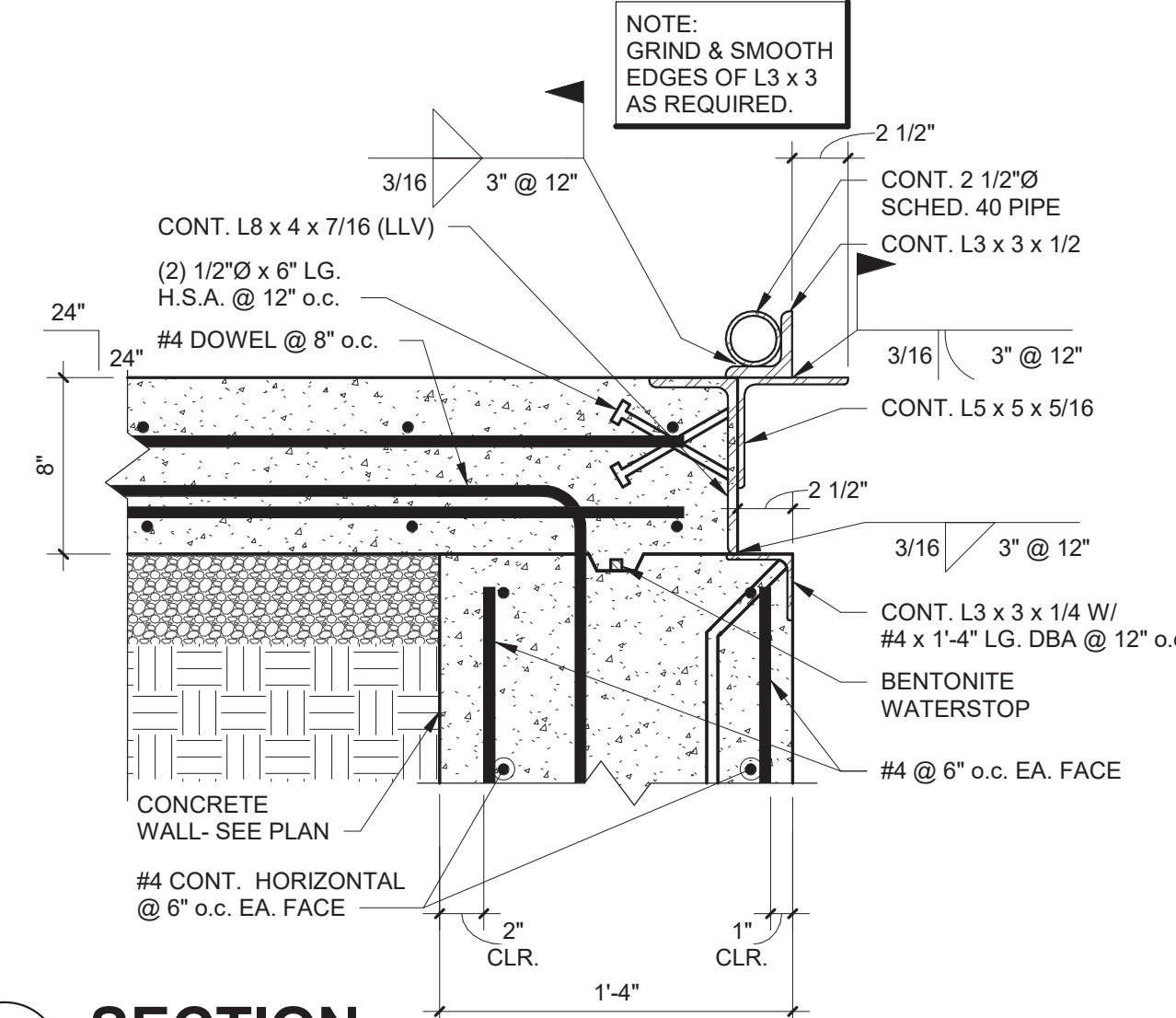
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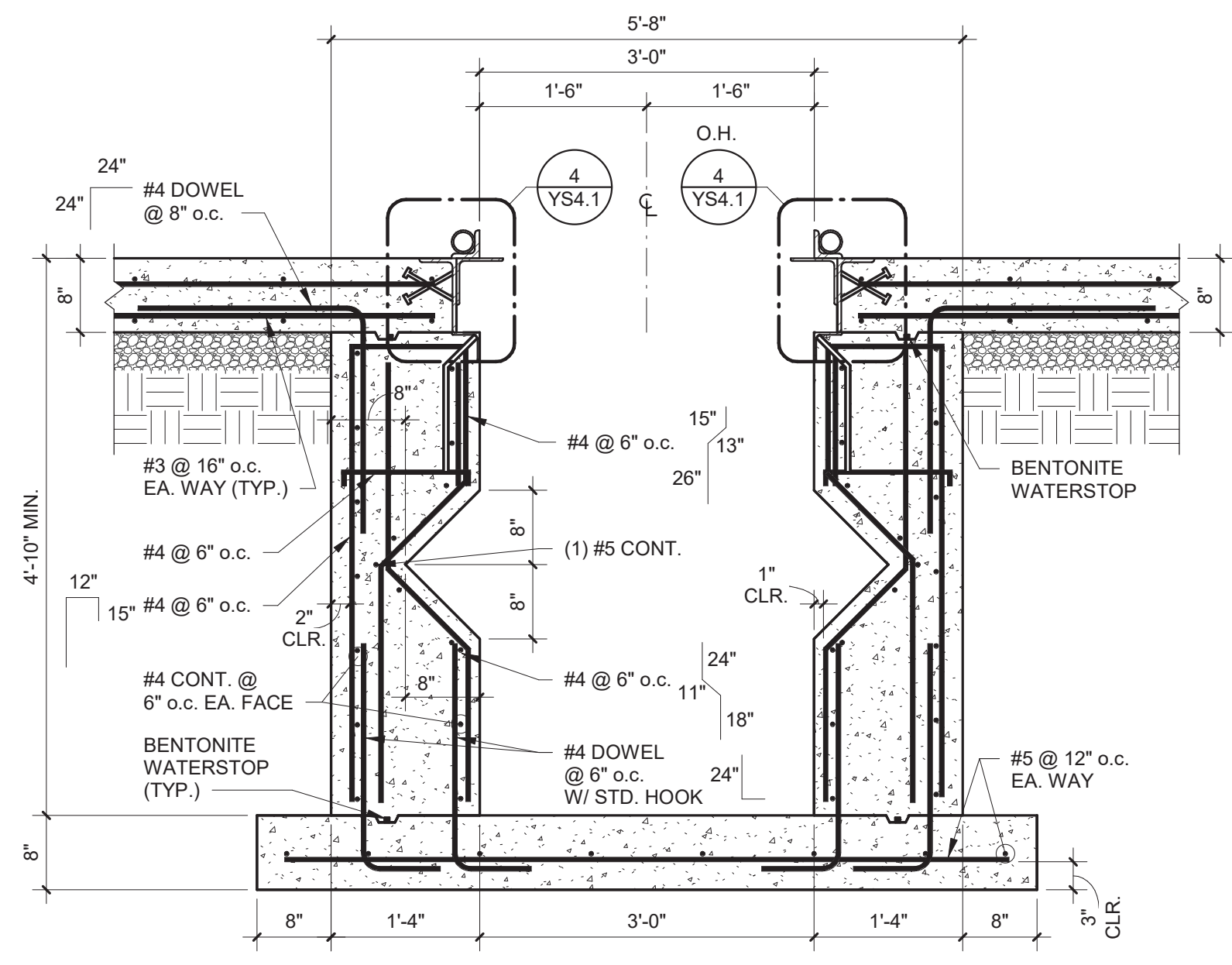
6 SECTION
 3/4" = 1'-0"



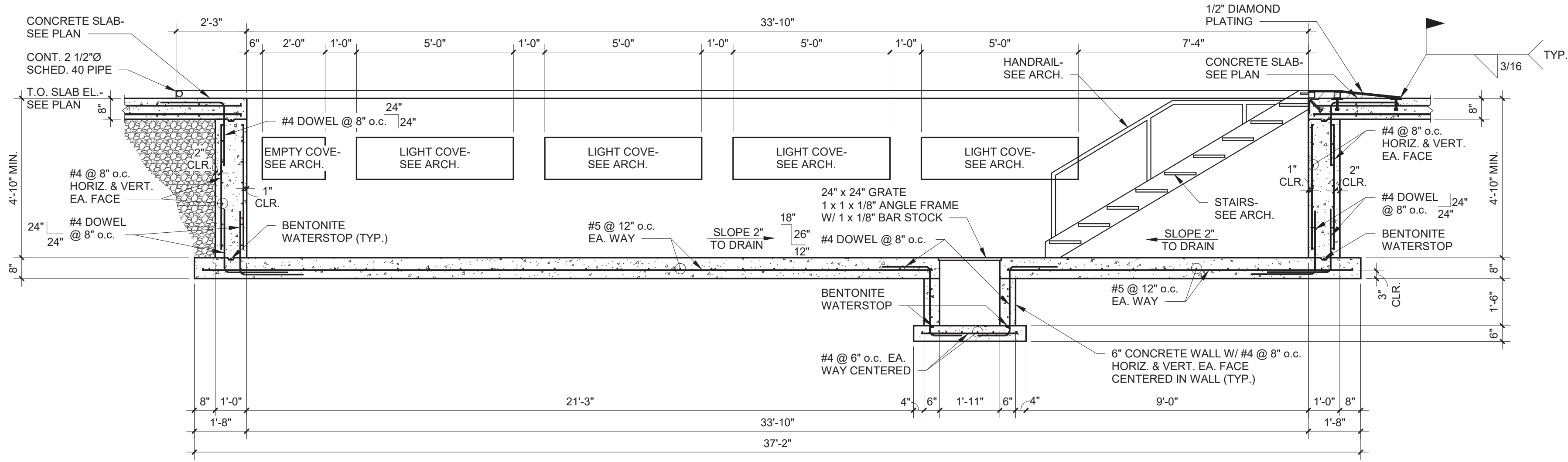
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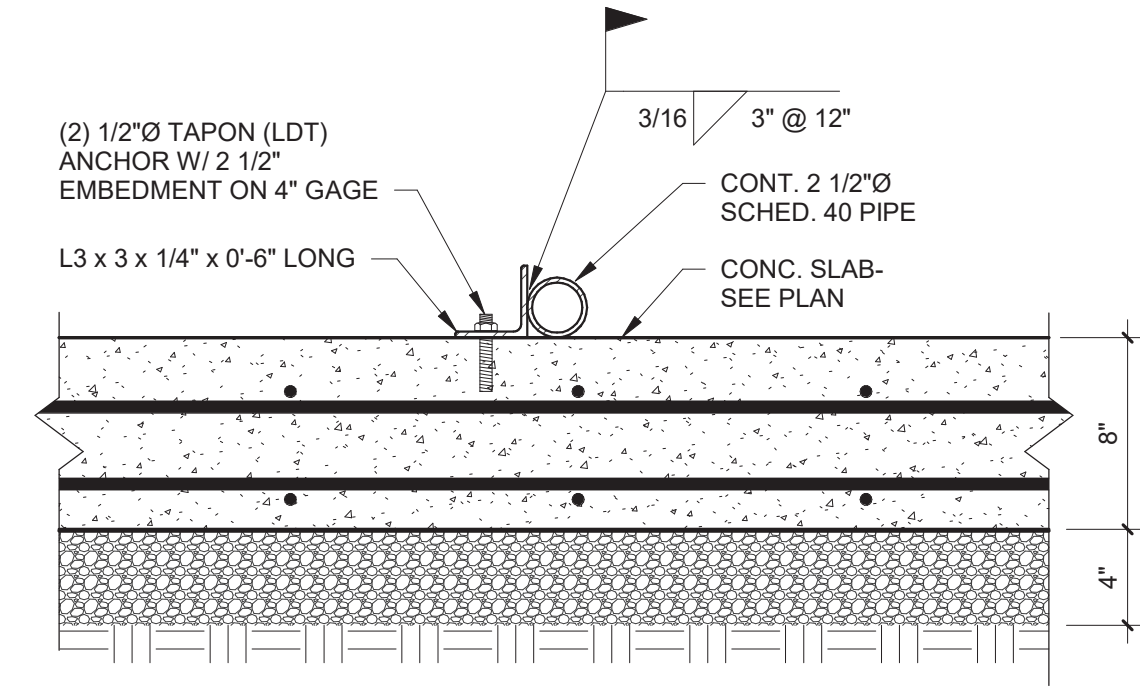
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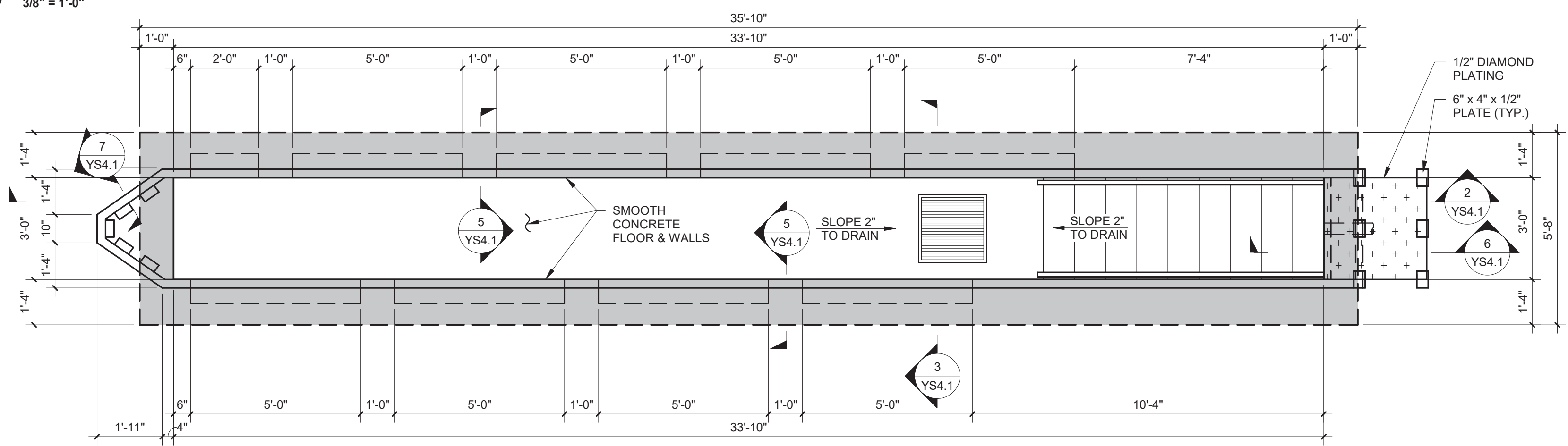
3 SECTION
 3/4" = 1'-0"



2 LUBE PIT SECTION
 3/8" = 1'-0"



7 SECTION
 1 1/2" = 1'-0"



1 LUBE PIT PLAN
 3/8" = 1'-0"

DIVISION 15

15A: GENERAL

15A 1-1 GENERAL REQUIREMENTS

REQUIREMENTS UNDER DIVISION ONE AND THE GENERAL AND SUPPLEMENTARY CONDITIONS OF THESE SPECIFICATIONS SHALL BE A PART OF THIS SECTION. CONTRACTOR SHALL BECOME THOROUGHLY ACQUAINTED WITH ITS CONTENTS AS TO REQUIREMENTS THAT AFFECT THIS DIVISION OR SECTION. THE WORK REQUIRED UNDER THIS SECTION INCLUDES MATERIAL, EQUIPMENT, APPLIANCES, TRANSPORTATION, SERVICES, AND LABOR REQUIRED TO COMPLETE THE ENTIRE SYSTEM AS REQUIRED BY THE DRAWINGS AND SPECIFICATIONS.

THE SPECIFICATIONS AND DRAWINGS FOR THE PROJECT ARE COMPLEMENTARY, AND PORTIONS OF THE WORK DESCRIBED IN ONE, SHALL BE PROVIDED AS IF DESCRIBED IN BOTH. IN THE EVENT OF DISCREPANCIES, NOTIFY THE ENGINEER AND/OR OWNER AND REQUEST CLARIFICATION PRIOR TO PROCEEDING WITH THE WORK INVOLVED.

15A 1-2 INSPECTION OF SITE

PRIOR TO SUBMITTING BID, VISIT THE SITE OF THE PROPOSED WORK AND BECOME FULLY INFORMED AS TO THE CONDITIONS UNDER WHICH THE WORK IS TO BE DONE. FAILURE TO DO SO WILL NOT BE CONSIDERED SUFFICIENT JUSTIFICATION TO REQUEST OR OBTAIN EXTRA COMPENSATION OVER AND ABOVE THE CONTRACT PRICE.

15A 1-3 MATERIAL AND WORKMANSHIP

PROVIDE NEW MATERIAL, EQUIPMENT, AND APPARATUS UNDER THIS CONTRACT UNLESS OTHERWISE STATED HEREIN, OF BEST QUALITY NORMALLY USED FOR THE PURPOSE IN GOOD COMMERCIAL PRACTICE, AND FREE FROM ANY DEFECTS. MODEL NUMBERS LISTED IN THE SPECIFICATIONS OR SHOWN ON THE DRAWINGS ARE NOT NECESSARILY INTENDED TO DESIGNATE THE REQUIRED TRIM. WRITTEN DESCRIPTIONS OF THE TRIM GOVERN MODEL NUMBERS.

WORK PERFORMED UNDER THIS CONTRACT SHALL PROVIDE A NEAT AND "WORKMANLIKE" APPEARANCE WHEN COMPLETED, TO THE SATISFACTION OF THE ARCHITECT AND ENGINEER. WORKMANSHIP SHALL BE THE FINEST POSSIBLE BY EXPERIENCED MECHANICS. INSTALLATIONS SHALL COMPLY WITH APPLICABLE CODES AND LAWS.

THE COMPLETE INSTALLATION SHALL FUNCTION AS DESIGNED AND INTENDED WITH RESPECT TO EFFICIENCY, CAPACITY, NOISE LEVEL, ETC. ABNORMAL NOISE CAUSED BY RATTLING EQUIPMENT, PIPING, DUCTS, AIR DEVICES, AND SQUEAKS IN ROTATING COMPONENTS WILL NOT BE ACCEPTABLE. IN GENERAL, MATERIALS AND EQUIPMENT SHALL BE OF COMMERCIAL SPECIFICATION GRADE IN QUALITY. LIGHT DUTY AND RESIDENTIAL TYPE EQUIPMENT WILL NOT BE ACCEPTED.

REMOVE FROM THE PREMISES WASTE MATERIAL PRESENT AS A RESULT OF WORK, INCLUDING CARTONS, CRATING, PAPER, STICKERS, AND/OR EXCAVATION MATERIAL NOT USED IN BACKFILLING, ETC. CLEAN EQUIPMENT INSTALLED UNDER THIS CONTRACT TO PRESENT A NEAT AND CLEAN INSTALLATION AT THE TERMINATION OF THE WORK.

REPAIR OR REPLACE PUBLIC AND PRIVATE PROPERTY DAMAGED AS A RESULT OF WORK PERFORMED UNDER THIS CONTRACT TO THE SATISFACTION OF AUTHORITIES AND REGULATIONS HAVING JURISDICTION.

15A 1-4 COORDINATION

COORDINATE WORK WITH THAT OF OTHER TRADES SO THAT THE VARIOUS COMPONENTS OF THE SYSTEMS WILL BE INSTALLED AT THE PROPER TIME, WILL FIT THE AVAILABLE SPACE, AND WILL ALLOW PROPER SERVICE ACCESS TO THOSE ITEMS REQUIRING MAINTENANCE. COMPONENTS WHICH ARE INSTALLED WITHOUT REGARD TO THE ABOVE SHALL BE RELOCATED AT NO ADDITIONAL COST TO THE OWNER.

UNLESS OTHERWISE INDICATED, THE GENERAL CONTRACTOR WILL PROVIDE CHASES AND OPENINGS IN BUILDING CONSTRUCTION REQUIRED FOR INSTALLATION OF THE SYSTEMS SPECIFIED HEREIN. CONTRACTOR SHALL FURNISH THE GENERAL CONTRACTOR WITH INFORMATION WHERE CHASES AND OPENINGS ARE REQUIRED. KEEP INFORMED AS TO THE WORK OF OTHER TRADES ENGAGED IN THE CONSTRUCTION OF THE PROJECT, AND EXECUTE WORK IN A MANNER AS TO NOT INTERFERE WITH OR DELAY THE WORK OF OTHER TRADES.

FIGURED DIMENSIONS SHALL BE TAKEN IN PREFERENCE TO SCALE DIMENSIONS. CONTRACTOR SHALL TAKE HIS OWN MEASUREMENTS AT THE BUILDING, AS VARIATIONS MAY OCCUR. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ERRORS THAT COULD HAVE BEEN AVOIDED BY PROPER CHECKING AND INSPECTION.

PROVIDE MATERIALS WITH TRIM THAT WILL PROPERLY FIT THE TYPES OF CEILING, WALL, OR FLOOR FINISHES ACTUALLY INSTALLED. MODEL NUMBERS LISTED IN THE SPECIFICATIONS OR SHOWN ON THE DRAWINGS ARE NOT INTENDED TO DESIGNATE THE REQUIRED TRIM.

15A 1-5 ORDINANCES AND CODES

WORK PERFORMED UNDER THIS CONTRACT SHALL, AT A MINIMUM, BE IN CONFORMANCE WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES HAVING JURISDICTION. EQUIPMENT FURNISHED AND ASSOCIATED INSTALLATION WORK PERFORMED UNDER THIS CONTRACT SHALL BE IN STRICT COMPLIANCE WITH CURRENT APPLICABLE CODES ADOPTED BY THE LOCAL AHJ INCLUDING ANY AMENDMENTS AND STANDARDS AS SET FORTH BY THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), UNDERWRITERS LABORATORIES (UL), OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME), AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR CONDITIONING ENGINEERS (ASHRAE), AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), AMERICAN SOCIETY OF TESTING MATERIALS (ASTM) AND OTHER NATIONAL STANDARDS AND CODES WHERE APPLICABLE. WHERE THE CONTRACT DOCUMENTS EXCEED THE REQUIREMENTS OF THEIR REFERENCED CODES, STANDARDS, ETC., THE CONTRACT DOCUMENTS SHALL TAKE PRECEDENCE.

PROCURE AND PAY FOR PERMITS AND LICENSES REQUIRED FOR THE ACCOMPLISHMENT OF THE WORK HEREIN DESCRIBED. WHERE REQUIRED, OBTAIN, PAY FOR AND FURNISH CERTIFICATES OF INSPECTION TO OWNER. CONTRACTOR WILL BE HELD RESPONSIBLE FOR VIOLATIONS OF THE LAW.

15A 1-6 PROTECTION OF EQUIPMENT AND MATERIALS

STORE AND PROTECT FROM DAMAGE EQUIPMENT AND MATERIALS DELIVERED TO JOB SITE. COVER WITH WATERPROOF, TEAR-RESISTANT, HEAVY TARP OR POLYETHYLENE PLASTIC AS REQUIRED TO PROTECT FROM PLASTER, DIRT, PAINT, WATER, OR PHYSICAL DAMAGE. EQUIPMENT AND MATERIAL THAT HAS BEEN DAMAGED BY CONSTRUCTION ACTIVITIES WILL BE REJECTED, AND CONTRACTOR IS OBLIGATED TO FURNISH NEW EQUIPMENT AND MATERIAL OF A LIKE KIND.

KEEP PREMISES ROOM CLEAN FROM FOREIGN MATERIAL CREATED DURING WORK PERFORMED UNDER THIS CONTRACT. PIPING, EQUIPMENT, ETC., SHALL HAVE A NEAT AND CLEAN APPEARANCE AT THE TERMINATION OF THE WORK.

PLUG OR CAP OPEN ENDS OF DUCTWORK AND PIPING SYSTEMS WHILE STORED OR INSTALLED DURING CONSTRUCTION WHEN NOT IN USE TO PREVENT THE ENTRANCE OF DEBRIS INTO THE SYSTEMS.

KEEP THE MANUFACTURER PROVIDED PROTECTIVE COVERINGS ON FLOOR DRAINS, FLOOR SINKS, AND TRENCH DRAINS DURING CONSTRUCTION. REMOVE COVERINGS AT THE TERMINATION OF THE WORK AND POLISH EXPOSED SURFACES.

15A 1-7 OPERATION AND MAINTENANCE INSTRUCTIONS

COLLECT AND COMPIL A COMPLETE BROCHURE OF FIXTURES, MATERIALS, AND EQUIPMENT FURNISHED AND INSTALLED ON THIS PROJECT. INCLUDE OPERATIONAL AND MAINTENANCE INSTRUCTIONS, MANUFACTURER'S CATALOG SHEETS, WIRING DIAGRAMS, PARTS LISTS, APPROVED SHOP DRAWINGS, AND DESCRIPTIVE LITERATURE FURNISHED BY THE MANUFACTURER. INCLUDE AN INSIDE COVER SHEET THAT LISTS THE PROJECT NAME, DATE, OWNER, ARCHITECT, ENGINEER, GENERAL CONTRACTOR, SUBCONTRACTOR, AND AN INDEX OF CONTENTS.

SUBMIT COPIES OF LITERATURE BOUND IN APPROVED BINDERS TO THE ARCHITECT AND OWNER AT THE TERMINATION OF THE WORK. PAPER CLIPS, STAPLES, RUBBER BANDS, AND MAILING ENVELOPES ARE NOT CONSIDERED APPROVED BINDERS. FINAL APPROVAL OF PLUMBING SYSTEMS WILL BE WITHHELD UNTIL THIS EQUIPMENT BROCHURE IS DEEMED COMPLETE BY THE ARCHITECT, ENGINEER, AND OWNER.

15A 1-8 WARRANTIES

WARRANT EACH SYSTEM AND EACH ELEMENT THEREOF AGAINST ALL DEFECTS DUE TO FAULTY WORKMANSHIP. DESIGN OR MATERIAL FOR A PERIOD OF 12 MONTHS FROM DATE OF SUBSTANTIAL COMPLETION, UNLESS SPECIFIC ITEMS ARE NOTED TO CARRY A LONGER WARRANTY IN THE CONSTRUCTION DOCUMENTS OR MANUFACTURER'S STANDARD WARRANTY EXCEEDS 12 MONTHS. REMEDY ALL DEFECTS OCCURRING WITHIN THE WARRANTY PERIOD(S), AS STATED IN THE GENERAL CONDITIONS AND DIVISION 1.

WARRANTIES SHALL INCLUDE LABOR AND MATERIAL. MAKE REPAIRS OR REPLACEMENTS WITHOUT ANY ADDITIONAL COSTS TO THE OWNER.

PERFORM THE REMEDIAL WORK PROMPTLY, UPON WRITTEN NOTICE FROM THE ENGINEER OR OWNER.

AT THE TIME OF SUBSTANTIAL COMPLETION, DELIVER TO THE OWNER ALL WARRANTIES, IN WRITING AND PROPERLY EXECUTED, INCLUDING TERM LIMITS FOR WARRANTIES EXTENDING BEYOND THE ONE YEAR PERIOD. EACH WARRANTY INSTRUMENT BEING ADDRESSED TO THE OWNER AND STATING THE COMMENCEMENT DATE AND TERM.

15A 1-9 CUTTING AND PATCHING

PERFORM CUTTING OF WALLS, FLOORS, CEILINGS, ETC. AS REQUIRED TO INSTALL WORK UNDER THIS SECTION. DO NOT CUT OR DISTURB STRUCTURAL MEMBERS WITHOUT PRIOR APPROVAL FROM THE ARCHITECT. CUT HOLES AS SMALL AS POSSIBLE. GENERAL CONTRACTOR SHALL PATCH WALLS, FLOORS, ETC. AS REQUIRED BY WORK UNDER THIS SECTION. PATCHING SHALL MATCH THE ORIGINAL MATERIAL AND CONSTRUCTION. REPAIR AND REFINISH AREAS DISTURBED BY WORK TO THE CONDITION OF ADJOINING SURFACES IN A MANNER SATISFACTORY TO THE ARCHITECT.

15A 1-10 ROUGH-IN

COORDINATE WITHOUT DELAY ROUGHING-IN WITH GENERAL CONSTRUCTION. CONCEAL PIPING AND CONDUIT ROUGH-IN EXCEPT IN UNFINISHED AREAS AND WHERE OTHERWISE SHOWN.

15A 1-11 STRUCTURAL STEEL

STRUCTURAL STEEL USED FOR PIPE SUPPORTS, EQUIPMENT SUPPORTS, ETC., SHALL BE NEW, CLEAN, AND CONFORM TO ASTM DESIGNATION A-36.

SUPPORT PLUMBING AND MECHANICAL EQUIPMENT AND PIPING FROM THE BUILDING STRUCTURE. DO NOT SUPPORT PLUMBING EQUIPMENT FROM CEILINGS, OTHER MECHANICAL OR ELECTRICAL COMPONENTS, AND OTHER NON-STRUCTURAL ELEMENTS.

15A 1-12 ACCESS DOORS

PROVIDE ACCESS DOORS IN CEILINGS AND WALLS WHERE INDICATED OR REQUIRED FOR ACCESS TO CONCEALED VALVES AND EQUIPMENT INSTALLED UNDER THIS SECTION. PROVIDE CONCEALED HINGES, SCREWDRIVER-TYPE LOCK, ANCHOR STRAPS; MANUFACTURED BY MILCOR, ZURN, TITUS, OR EQUAL. OBTAIN ARCHITECT'S APPROVAL OF TYPE, SIZE, LOCATION, AND COLOR BEFORE ORDERING.

15A 1-13 PENETRATIONS

SEAL FLOOR, EXTERIOR WALL AND ROOF PENETRATIONS WATER AND WEATHER TIGHT WITH APPROPRIATE NON-SHRINK, NON-HARDENING COMMERCIAL CONSTRUCTION SEALANT. SEAL ROOF PENETRATIONS WITH 4 POUND PER SQUARE FOOT LEAD FLASHING. PROVIDE A SLEEVE, AND SEAL NON-FIRE-RATED FLOOR AND WALL PENETRATIONS WITH FIBERGLASS PACKING AND SILICONE CAULK (FOR ACOUSTICAL INSULATION).

COORDINATE FIRE RATING REQUIREMENTS AND LOCATIONS WITH THE ARCHITECT. SEAL PENETRATIONS OF FIRE-RATED ASSEMBLIES WITH 3M # CP-25 FIRE BARRIER CAULK (PROVIDE THICKNESS AND METHOD AS REQUIRED AND RECOMMENDED BY MANUFACTURER) TO MAINTAIN THE FIRE RESISTANCE RATING OF FIRE-RATED ASSEMBLIES.

SEAL EXTERIOR WALL PENETRATIONS BELOW GRADE WITH CAST IRON WALL PIPES AND MODULAR MECHANICAL SLEEVE SEALS, MANUFACTURED BY THUNDERLINE/INK SEAL, CALPICO, INC AND METRAFLFX.

PROVIDE SLEEVES FOR HORIZONTAL PIPE PASSING THROUGH OR UNDER FOUNDATION. SLEEVES SHALL BE CAST IRON SOIL PIPE TWO NOMINAL PIPE SIZES LARGER THAN THE PIPE SERVED.

PROVIDE SLEEVES FOR VERTICAL PIPE PASSING THROUGH SLAB ON GRADE. SLEEVES SHALL BE SCHEDULE 40 PVC PIPE, TWO NOMINAL PIPE SIZES LARGER THAN THE PIPE SERVED. SEAL WATER-TIGHT WITH SILICONE CAULK.

15B: HEATING, VENTILATION, AND AIR CONDITIONING

15B 1-1 DUCTWORK

ALL DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS CORRESPONDING TO THE SYSTEM PRESSURE. DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS FOR A TWO-INCH PRESSURE RATING AND SEAL CLASS B.

INSTALL VTR'S, EXHAUST FANS, AND FLUES A MINIMUM OF 5'-0" FROM PARAPET OR OUTSIDE WALL AND 10'-0" MINIMUM FROM EQUIPMENT WITH OUTSIDE AIR INTAKE.

15B 1-2 ELECTRICAL WIRING

LINE VOLTAGE WIRING SHALL BE FURNISHED BY ELECTRICAL CONTRACTOR. LINE VOLTAGE CONTROL AND INTERLOCK WIRING FOR MECHANICAL SYSTEMS SHALL ALSO BE FURNISHED BY ELECTRICAL CONTRACTOR. LOW VOLTAGE CONTROL WIRING SHALL BE BY THE DIVISION 15 CONTRACTOR. PROVIDE WIRING DIAGRAMS TO THE ELECTRICAL CONTRACTOR AS REQUIRED FOR PROPER EQUIPMENT HOOKUP. COORDINATE WITH THE ELECTRICAL CONTRACTOR THE ACTUAL WIRE SIZING AMPS FOR MECHANICAL EQUIPMENT (FROM THE EQUIPMENT NAMEPLATE) TO ENSURE PROPER INSTALLATION.

ALL TEMPERATURE SENSORS, FAN SWITCHES, AND SPEED CONTROLS SHALL BE INSTALLED 43" ABOVE THE FLOOR FOR ADA REQUIREMENTS.

15B 1-3 FINAL TESTING AND ADJUSTMENTS

AIR BALANCE SHALL BE PERFORMED BY AN INDEPENDENT AIR BALANCE CONTRACTOR. BALANCE EACH SUPPLY, RETURN, OUTSIDE AIR DEVICE WITHIN 5% OF REQUIREMENTS AND FURNISH A REPORT TO THE CONSTRUCTION MANAGER. THE ENTIRE HVAC SYSTEM MUST BE FULLY OPERABLE, BALANCED, AND APPROVED BY OWNER'S REPRESENTATIVE ON THE DAY TENANT OPENS FOR BUSINESS.

ADJUST THERMOSTATS AND CONTROL DEVICES TO OPERATE AS INTENDED. ADJUST BURNERS, PUMPS, FANS, ETC. FOR PROPER AND EFFICIENT OPERATION. CERTIFY TO ARCHITECT THAT ADJUSTMENTS HAVE BEEN MADE AND THAT SYSTEM IS OPERATING SATISFACTORILY. CALIBRATE, SET AND ADJUST AUTOMATIC TEMPERATURE CONTROLS. CHECK PROPER SEQUENCING OF INTERLOCK SYSTEMS, AND OPERATION OF SAFETY CONTROLS.

15C: PLUMBING

15C 1-1 PIPING MATERIALS

MATERIALS SPECIFIED OR NOTED ON THE DRAWINGS ARE SUBJECT TO THE APPROVAL OF LOCAL CODE AUTHORITIES. VERIFY APPROVAL BEFORE INSTALLING ANY MATERIAL OR JOINING METHOD.

GAS PIPING: GAS PIPING SHALL BE BLACK STEEL, STANDARD WEIGHT, SCHEDULE 40 ASTM A53. PIPING 2" AND SMALLER SHALL BE WELDED OR THREADED WITH MALLEABLE IRON FITTINGS. PIPING 2 1/2" AND LARGER SHALL BE WELDED WITH BUTT-WELDED FITTING. FITTINGS SHALL CONFORM TO ASME B16.3, MALLEABLE IRON OR ASTM A 234, FORGED STEEL WELDED TYPE.

COMPRESSED AIR PIPING: COMPRESSED AIR PIPING SHALL BE BLACK STEEL, STANDARD WEIGHT, SCHEDULE 40 ASTM A53. PIPING 2" AND SMALLER SHALL BE WELDED OR THREADED WITH MALLEABLE IRON FITTINGS. PIPING 2 1/2" AND LARGER SHALL BE WELDED WITH BUTT-WELDED FITTING. FITTINGS SHALL CONFORM TO ASME B16.3, MALLEABLE IRON OR ASTM A 234, FORGED STEEL WELDED TYPE. EXTERIOR PIPING SHALL HAVE EPOXY PAINT.

15C 1-3 PIPING INSTALLATION

GENERAL: CLEAN PIPE THOROUGHLY PRIOR TO INSTALLATION. REAM ENDS OF PIPE TO REMOVE BURRS. CUT PIPE ACCURATELY TO MEASUREMENTS TAKEN ON THE JOB. INSTALL WITH ADEQUATE CLEARANCE FOR INSTALLATION OF COVERINGS WHERE REQUIRED. PIPE SHALL NOT BE SPRUNG OR BENT. NEATLY ALIGN PIPE, CONNECT IT SECURELY, AND SUPPORT IT FROM THE BUILDING STRUCTURE WITH HANGERS AS SPECIFIED BELOW. PROVIDE CHROME-PLATED ESCUTCHEONS ON PIPES PASSING THROUGH CEILINGS, FLOORS OR WALLS OF FINISHED SPACES. RUN PIPES FREELY THROUGH FLOOR AND WALL PENETRATIONS USING PIPE SLEEVES. DO NOT GROUT IN PLACE UNLESS REQUIRED FOR STRUCTURAL FIRE INTEGRITY. INSTALL PIPE CONCEALED IN FINISHED SPACES WHEREVER POSSIBLE. USE A DIELECTRIC UNION WHERE FERROUS AND COPPER PIPE CONNECT. DIELECTRIC UNION SHALL HAVE A ZINC STEEL BODY, A THREADED NYLON INSERT, AND INSULATING PRESSURE GASKET. NO FERROUS METAL TO COPPER CONNECTION MADE WITHOUT INSULATING UNIONS WILL BE ALLOWED.

HANGER & SUPPORTS: PIPE HANGERS SHALL BE AS DESCRIBED IN THE SPECIFICATIONS BY B-LINE OR EQUAL BY ANVIL, MICHIGAN, TRUSCON, OR UNISTRUT. CONNECT HANGERS TO THE STRUCTURE WITH SIDE BEAM CONNECTORS AND ALL THREAD HANGER RODS. PROVIDE ENGINEERED SUPPORT STRUTS BETWEEN JOISTS AND OTHER STRUCTURAL MEMBERS AS REQUIRED TO PROVIDE A RIGID HANGING INSTALLATION. DO NOT HANG PIPES FROM OTHER PIPES, CONDUIT OR DUCTWORK. PROVIDE HANGER RODS AND SPACE HANGERS AT INTERVALS AS REQUIRED.

15C 1-4 EXTERIOR UTILITY CONNECTIONS

TERMINATE DOMESTIC WATER, STORM, AND SEWER LINES AT A POINT APPROXIMATELY FIVE FEET FROM THE BUILDING WALL, OR AS SHOWN ON THE DRAWINGS. MAKE CONNECTION TO THE VARIOUS SERVICES PROVIDED BY OTHERS AND COORDINATE CONNECTION REQUIREMENTS WITH CIVIL ENGINEER. VERIFY THAT INSTALLATION WILL TIE INTO THE VARIOUS SERVICED PROVIDED BY OTHERS AT THE INDICATED INVERT ELEVATION POINT PRIOR TO INSTALLATION. IF THE INSTALLATION WILL NOT TIE INTO THE INDICATED INVERT ELEVATION POINT WHILE MAINTAINING PROPER FALL, NOTIFY ARCHITECT AND CIVIL ENGINEER SO THAT AN ALTERNATIVE MAY BE DETERMINED.

PROVIDE SERVICE PIPING AND ACCESSORIES REQUIRED TO COMPLETE UTILITY CONNECTIONS THAT ARE NOT FURNISHED BY THE SERVING UTILITY.

15C 1-5 SYSTEM TESTING AND ADJUSTING

UPON COMPLETION OF EACH PHASE OF THE INSTALLATION, TEST EACH SYSTEM IN CONFORMANCE WITH LOCAL CODE REQUIREMENTS AND AS NOTED BELOW. FURNISH LABOR AND EQUIPMENT REQUIRED TO TEST PLUMBING WORK INSTALLED UNDER THIS CONTRACT, AND ASSUME COSTS INVOLVED IN MAKING THE TESTS, AND REPAIRING AND/OR REPLACING DAMAGE RESULTING THEREFROM.

NOTIFY THE ARCHITECT AND THE AUTHORITY HAVING JURISDICTION, THREE (3) WORKING DAYS PRIOR TO MAKING PLUMBING SYSTEM TESTS. LEAVE CONCEALED WORK UNCOVERED UNTIL THE REQUIRED TESTS HAVE BEEN COMPLETED, BUT IF NECESSARY DUE TO CONSTRUCTION PROCEDURE, TESTS ON PORTIONS OF THE WORK MAY BE MADE. AND WHEN SATISFACTORY, THE WORK MAY BE CONCEALED. TEST PIPING BEFORE INSULATION IS INSTALLED, AND BEFORE BACKFILL. PIPES, JOINTS, FLANGES, VALVE STEMS, ETC., SHALL BE LEAK TIGHT. REPAIR OR REPLACE SYSTEM DEFECTS WITH NEW MATERIALS. CAULKING OF DEFECTIVE JOINTS, CRACKS OR HOLES WILL NOT BE PERMITTED. REPEAT TESTS AFTER DEFECTS HAVE BEEN ELIMINATED. MAKE TESTS IN THE PRESENCE OF THE ADMINISTRATIVE AUTHORITY AND/OR THE OWNER'S AUTHORIZED REPRESENTATIVE.

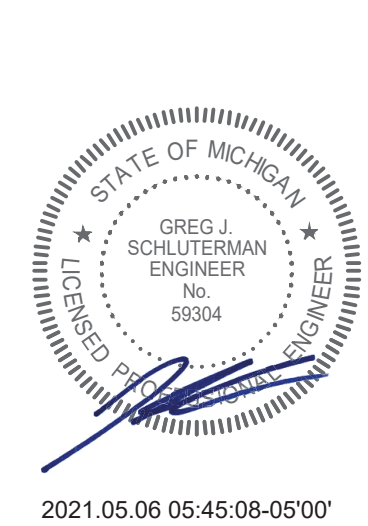
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THESE DRAWINGS ARE PREPARED FOR USE ON A SINGLE PROJECT. ANY REUSE OF THESE DRAWINGS FOR ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF HFA IS STRICTLY PROHIBITED. ANY REUSE OF THESE DRAWINGS FOR ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF HFA IS STRICTLY PROHIBITED. ANY REUSE OF THESE DRAWINGS FOR ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF HFA IS STRICTLY PROHIBITED.

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18720 PARKVIEW DR
MARSHALL, MI 49889
JOB NUMBER: 05-21-20356

ISSUE BLOCK

CHECKED BY: JKR
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DOCUMENT DATE: 05/05/21



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MECHANICAL & PLUMBING SPECIFICATIONS

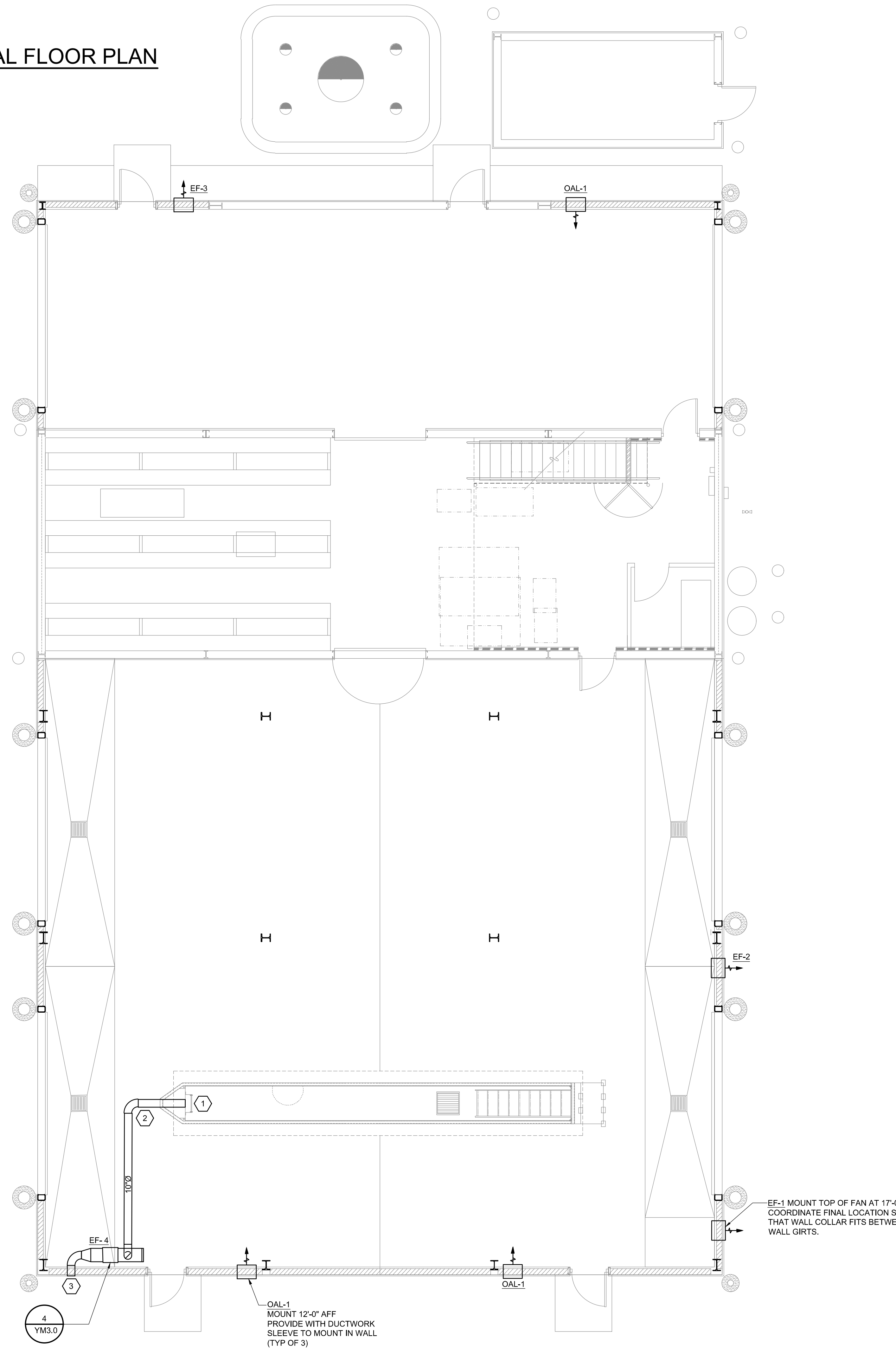
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EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT HIMSELF WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING HIS WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

1

MECHANICAL FLOOR PLAN

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



EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT 'AS-BUILT' CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT HIMSELF WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING HIS WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

HVAC NOTES

1. EACH CONTRACTOR IS RESPONSIBLE FOR HAVING THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS AS THEY RELATE TO THIS WORK. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED DUE TO LACK OF THIS KNOWLEDGE.
2. PROVIDE ALL MATERIALS FOR A COMPLETE INSTALLATION IN ALL RESPECTS READY FOR INTENDED USE AND IN STRICT ACCORDANCE WITH STATE AND LOCAL CODES AND MANUFACTURER'S RECOMMENDATIONS.
3. VERIFY ALL EXISTING CONDITIONS PRIOR TO STARTING WORK. NOTIFY ARCHITECT/ENGINEER OF ANY CONFLICTS THAT MIGHT ARISE FROM FIELD CONDITIONS.

KEYNOTES

1. 8"Ø PVC VENT STUB OUT WITH BOTTOM OF VENT 12" AFF. INSTALL EXHAUST GRILLE TYPE "A" IN LUBE PIT AREA. SEE AIR DEVICE SCHEDULE ON YM-3.1. LOCATE GRILLE FLUSH WITH WALL CENTERED ON PVC VENT.
2. PIT AREA VENTILATION SYSTEM DUCTWORK: PROVIDE AND INSTALL SCHEDULE 40 PVC ROUND DUCTWORK UNDERSLAB AS INDICATED. COORDINATE DUCTWORK WITH UNDERGROUND PIPING AND FOOTINGS, SLOPE DUCTWORK BACK TO LUBE PITS.
3. HOODED WALL CAP FIELD PAINTED TO MATCH BUILDING EXTERIOR AT 10-FT ABOVE GRADE.



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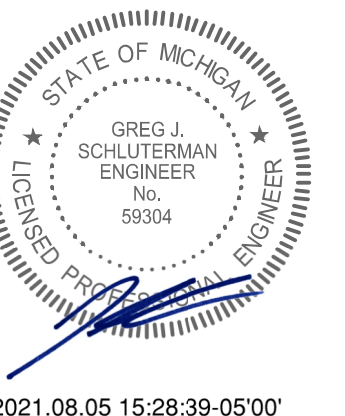
STIPULATION FOR REUSE
THIS DRAWING WAS PREPARED FOR USE ON A PROJECT AND IS NOT TO BE REUSED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT/ENGINEER. THE ARCHITECT/ENGINEER WILL BE RESPONSIBLE FOR OBTAINING THE NECESSARY PERMISSIONS FROM ALL APPLICABLE AGENCIES AND INDUSTRY PARTIES. ANY REUSE OF THIS DRAWING WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT/ENGINEER IS PROHIBITED AND MAY BE SUBJECT TO LEGAL ACTION.

REMODEL
STORE NUMBER: 888
18720 PARKWAY DR
MARSHALL, MI 49068
JOB NUMBER: 05-21-20336

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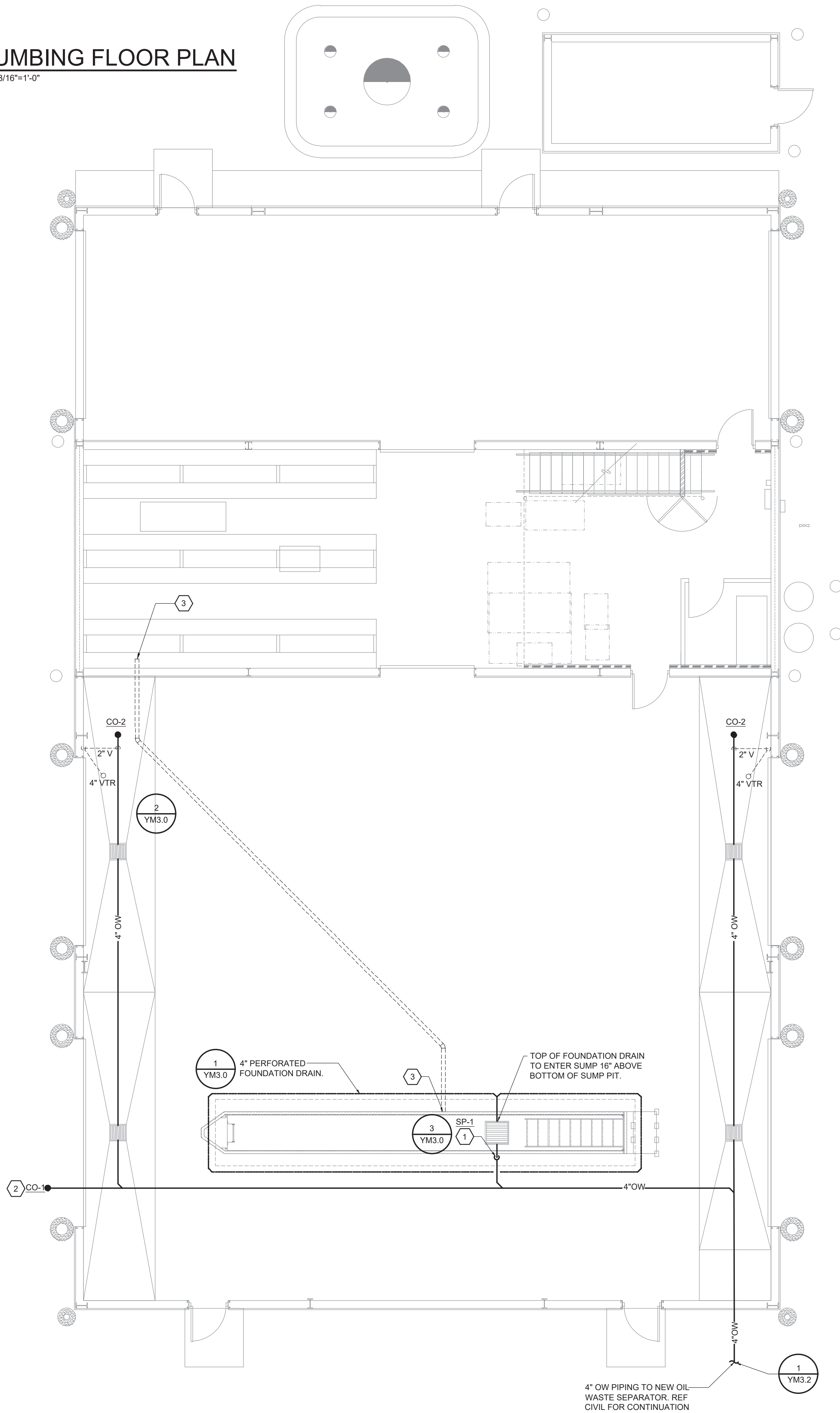
MECHANICAL FLOOR PLAN

SHEET: **YM2.0**

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1 PLUMBING FLOOR PLAN

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



EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT HIMSELF WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING HIS WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

GENERAL NOTES

1. ALL PLUMBING WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE BASE BUILDING SPECIFICATION AND WITH THE LATEST EDITION OF THE PREVAILING STATE MECHANICAL/PLUMBING AND BUILDING CODES AS WELL AS ALL REGULATIONS THAT MAY APPLY. IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE THE MORE STRINGENT STANDARD SHALL APPLY.
2. INSTALL ALL REQUIRED CLEANOUTS TO CLEAR EQUIPMENT AND FIXTURES.
3. SANITARY AND VENT PIPING SHALL BE SCHEDULE 40 PVC WITH INSTALLATION IN ACCORDANCE WITH ASTM D-232.1; ALL FITTINGS SHALL BE APPROVED SANITARY TYPE.
4. ALL FIXTURES ARE PROVIDED WITH STANDARD TRAP AND CLEANOUT (NOT SHOWN).
5. ALL WORK SHALL BE PROPERLY TESTED, BALANCED, CLEANED AND DISINFECTED. PROVIDE A ONE YEAR WARRANTY FROM DATE OF FINAL INSPECTION ON ALL PARTS AND LABOR.
6. ALL WASTE PIPING 3"Ø AND SMALLER SHALL BE SLOPED AT 1/4" PER FT. PIPING LARGER THAN 3"Ø SHALL BE SLOPED AT 1/8" PER FT.
7. REFER TO PLUMBING FIXTURE SCHEDULE FOR FIXTURE SPECIFICATIONS.
8. UNDERFLOOR PLUMBING IS SHOWN SCHEMATICALLY FOR VIEWING PURPOSES ONLY; DURING INSTALLATION FIELD MODIFICATIONS TO ROUTING MAY BE REQUIRED.
9. TERMINATE PLUMBING VENTS AT A MINIMUM OF 10 FEET FROM ALL AIR HANDLING EQUIPMENT INTAKE VENTS.
10. CONTRACTOR SHALL VERIFY LOCAL CODE REQUIREMENTS FOR INDIRECT CONNECTIONS FOR FOOD PREP AREAS. CONNECTIONS SHALL BE PROVIDED WITH A MINIMUM 1" AIR GAP UNLESS REQUIRED OTHERWISE BY LOCAL HEALTH DEPARTMENT.
11. CONDENSATE PIPING SHALL BE TYPE "L" HARD DRAWN SEAMLESS COPPER TUBE.
12. CONTRACTOR SHALL PROVIDE 4" PVC SLEEVES THRU THE ROOF AS REQUIRED BY THE ROOF MOUNTED CONDENSING UNITS; REFER TO ARCHITECTURAL ROOF PLAN FOR THE LOCATIONS.
13. CONTRACTOR SHALL PROVIDE AND INSTALL APPROPRIATE SLEEVES AND/OR CAULKING AT ALL PENETRATIONS TO ENSURE FIRE RATING IS MAINTAINED.

KEYNOTES

1. PUMP DISCHARGE (PD) TO EXIT SUMP PIT AT 16" ABOVE BOTTOM OF SUMP PIT. REF ARCH DETAILS. MAKE CONNECTION TO PUMP WITH HOSE COUPLING FOR QUICK REMOVAL.
2. PROVIDE CLEANOUT 3' FROM BUILDING EXTERIOR.
3. 4" PVC SLEEVE STUB UP 6" AFF AT PARTY WALL END AND 42" ABOVE PIT FLOOR AT LUBE PIT END - COORDINATE FINAL LOCATION WITH STRUCTURAL PEDESTALS.



HARRISON FRENCH & ASSOCIATES, LTD

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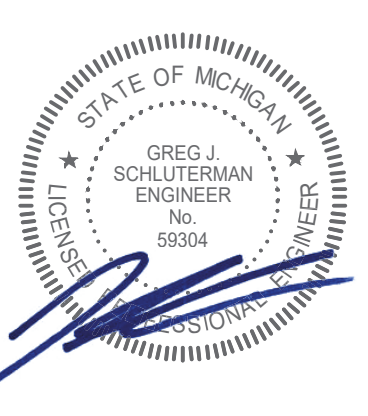
REMODEL

STORE NUMBER: 848
18720 MARKET CO RD
MARSHALL, MI 49868
JOB NUMBER: 03-21-20336

ISSUE BLOCK

NO.	DATE	DESCRIPTION

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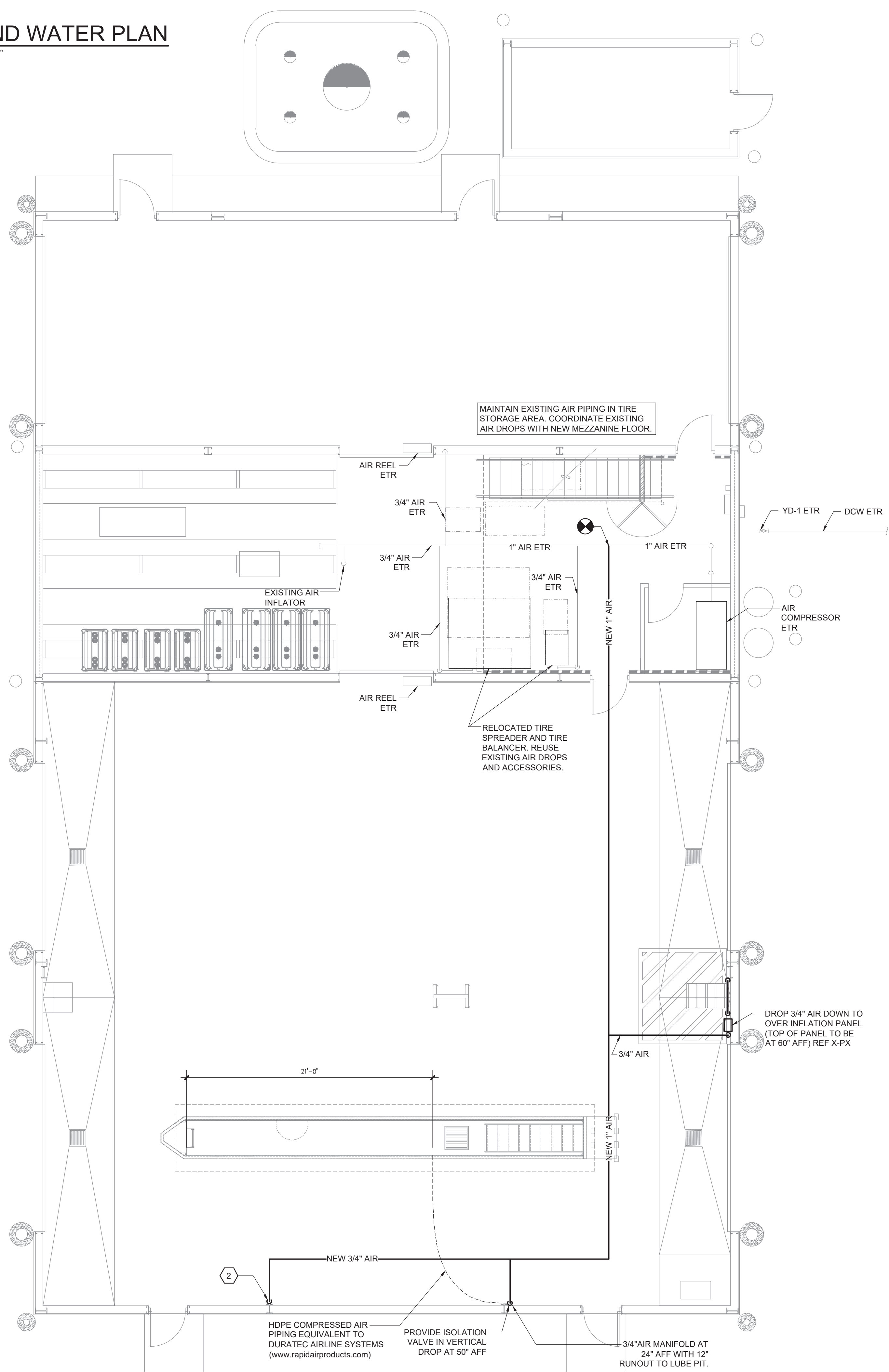
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PLUMBING FLOOR PLAN

SHEET: YM2.1

May05:2021-10:48am - User:mathew.taylor
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1 AIR AND WATER PLAN
SCALE: 3/16"=1'-0"



EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

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GENERAL NOTES

1. ALL PLUMBING WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE BASE BUILDING SPECIFICATION AND WITH THE LATEST EDITION OF THE PREVAILING STATE MECHANICAL/PLUMBING AND BUILDING CODES AS WELL AS ALL REGULATIONS THAT MAY APPLY. IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE THE MORE STRINGENT STANDARD SHALL APPLY.
2. CONTRACTOR SHALL PROVIDE AND INSTALL APPROPRIATE SLEEVES AND/OR CAULKING AT ALL PENETRATIONS TO ENSURE FIRE RATING IS MAINTAINED.
3. PLUMBING/PIPING IS SHOWN SCHEMATICALLY FOR VIEWING PURPOSES ONLY. DURING INSTALLATION FIELD MODIFICATIONS TO ROUTING MAY BE REQUIRED.
4. ALL COMPRESSED AIR PIPING SHALL BE ASTM A53 SCHEDULE 40 STEEL WITH MALLEABLE IRON FITTINGS AND THREADED JOINTS.

KEYNOTES

1. EXISTING PIPING AND PIPING ACCESSORIES TO REMAIN UNLESS SHOWN OTHERWISE. FIELD VERIFY EXACT LOCATION.
2. 3/4" COMPRESSED AIR LINE DOWN; SECURE TO WALL/COLUMN WITH PIPE CLAMPS (SEE DETAIL 7/YM3.0 FOR ADDITIONAL INFORMATION.)

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AIR AND WATER PLAN

SHEET: **YM2.2**

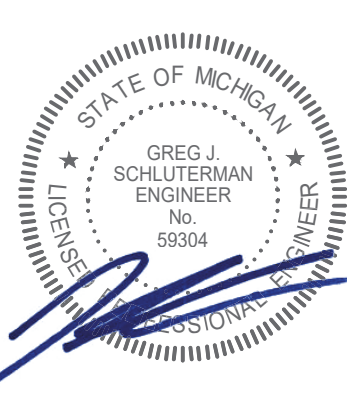
May05:20:1-10:45am - User: mathias.taylor
E:\050521-2-20336 - Remodel - Marshall, MI 5306-CD-0300 - Mechanical - Plumbing\310_YM2.2_336.dwg

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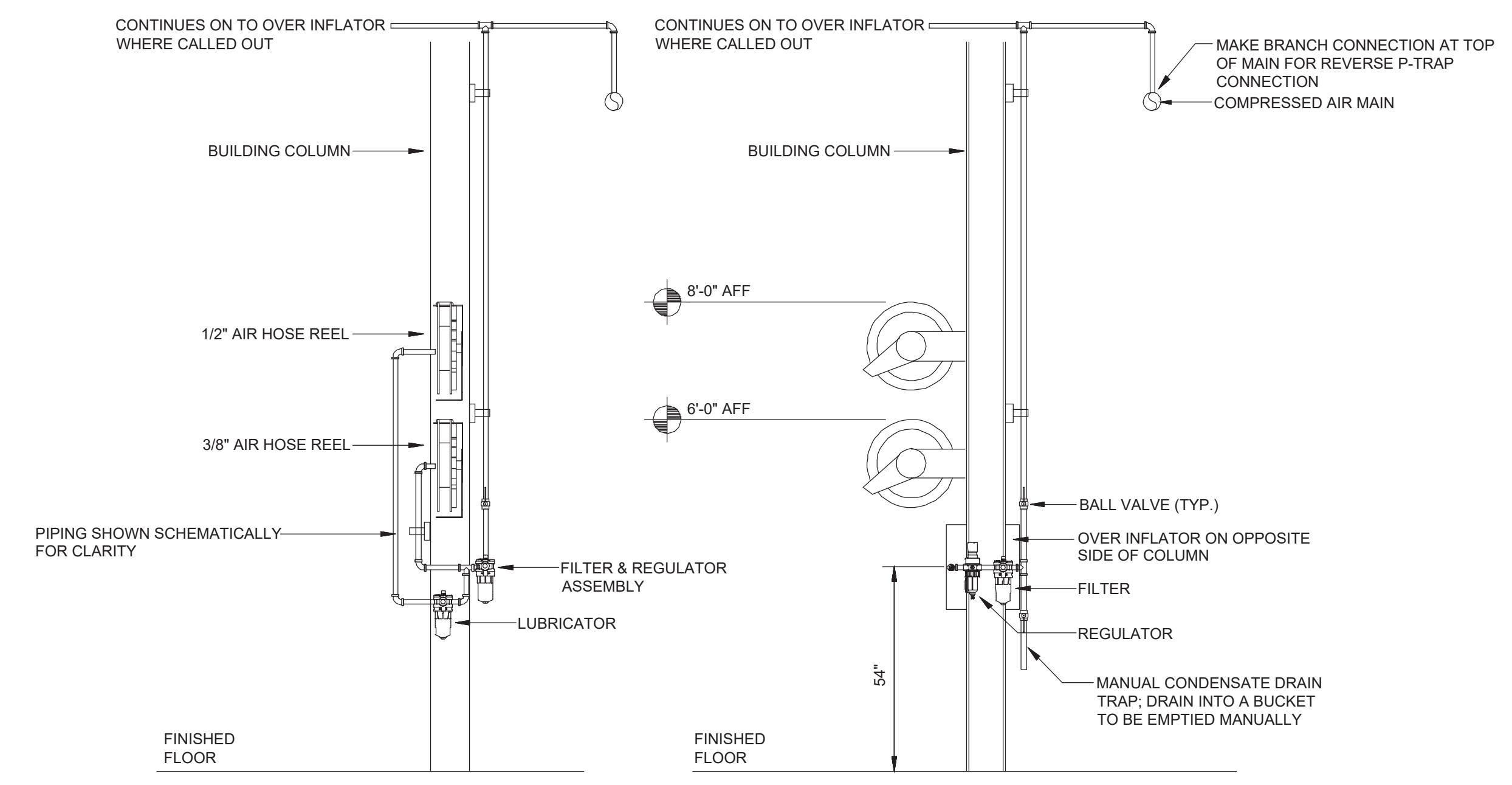
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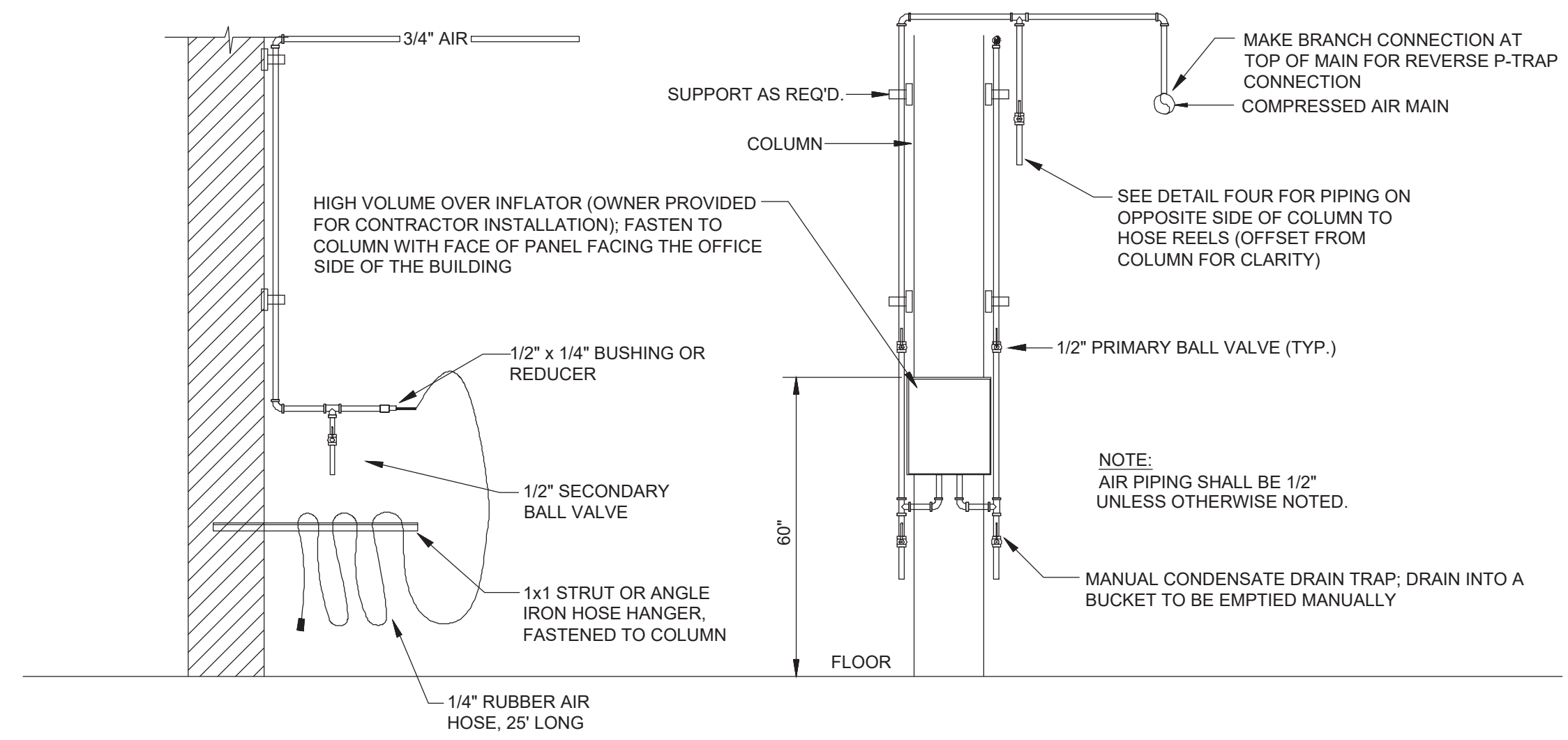
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MECHANICAL DETAILS

SHEET: **YM3.0**

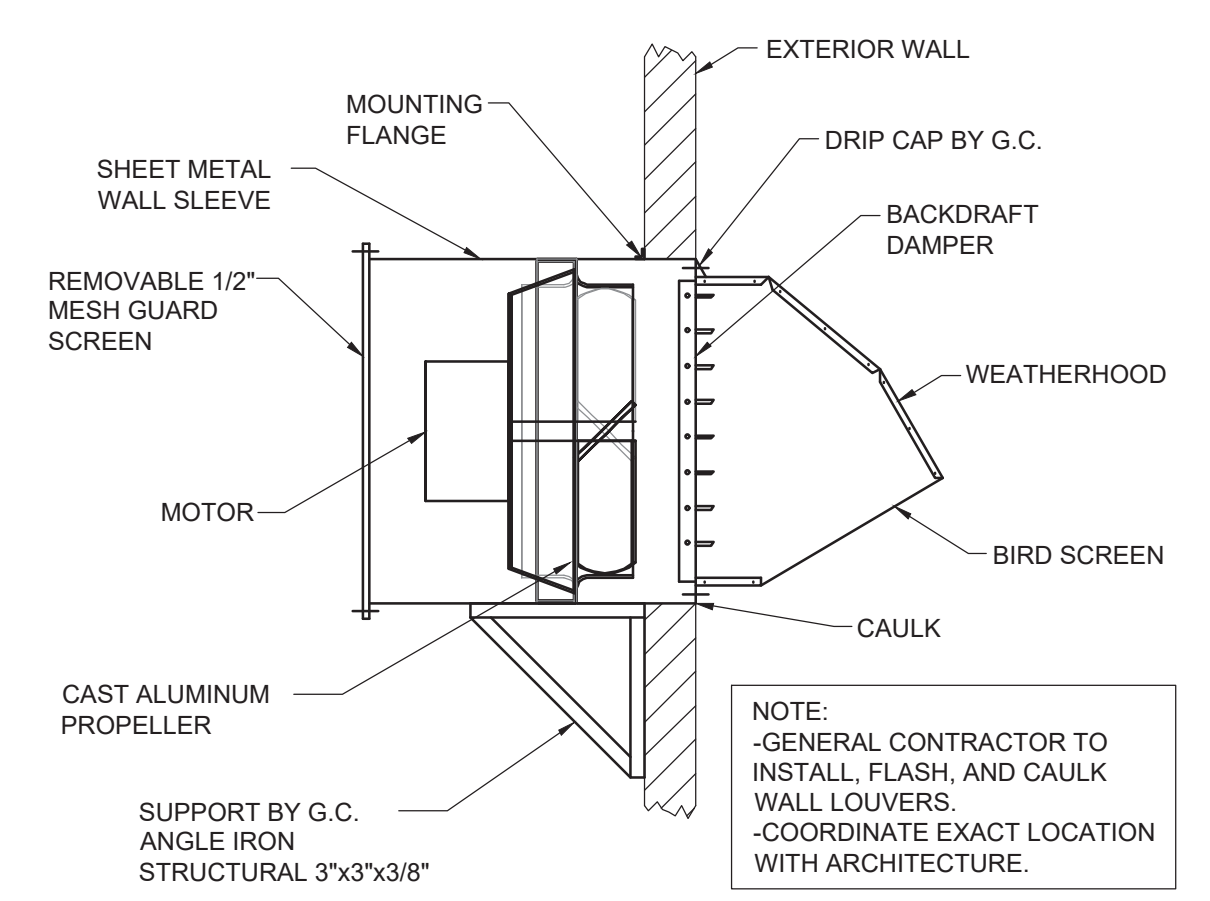


7 ELEVATION AT AIR REELS
NTS

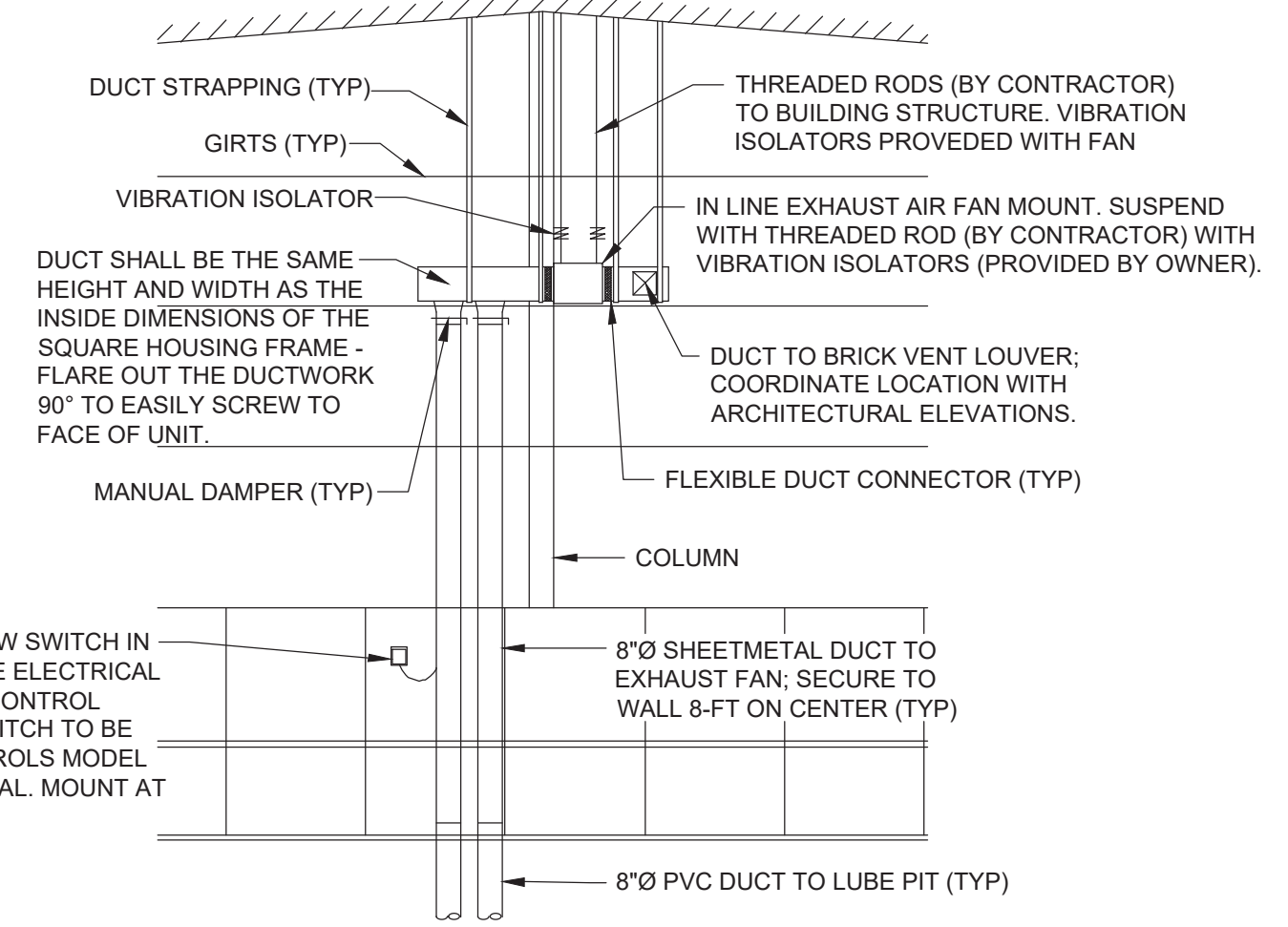


OPERATION:
PRIMARY BALL VALVE IS OPENED, ALLOWING COMPRESSED AIR TO FLOW THROUGH TO TIRE. PRESSURE GAUGE ON THE REGULATOR INDICATES PRESSURE BEING SUPPLIED. PRIMARY VALVE IS CLOSED AND THE GAUGE INDICATES BACK-FEED PRESSURE IN THE TIRE. IN AN OVER-INFLATION OR DANGEROUS TIRE SCENARIO, THE PRIMARY VALVE IS CLOSED AND THE SECONDARY BALL VALVE IS OPENED, ALLOWING AIR TO EVACUATE FROM THE TIRE.

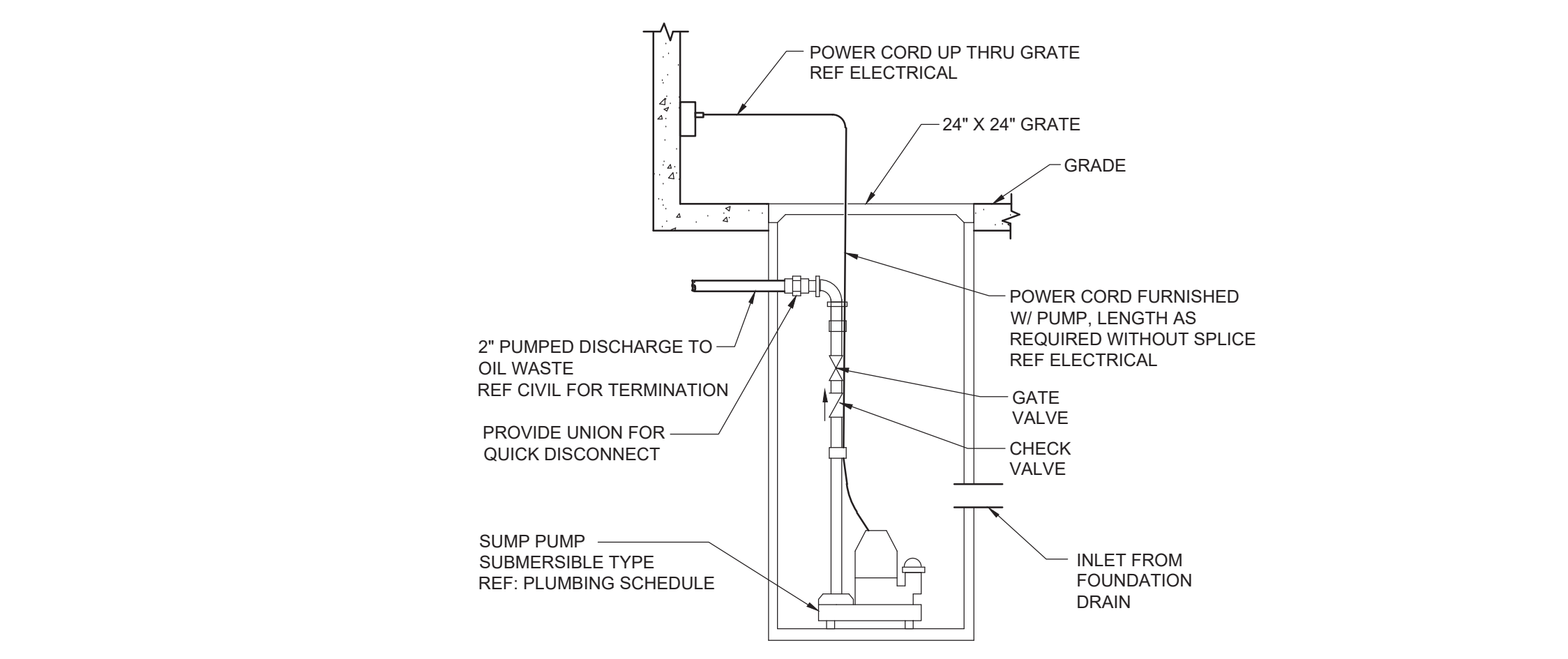
6 ELEVATION AT REMOTE INFLATION STATION
NTS



5 WALL EXHAUST FAN DETAIL
NTS

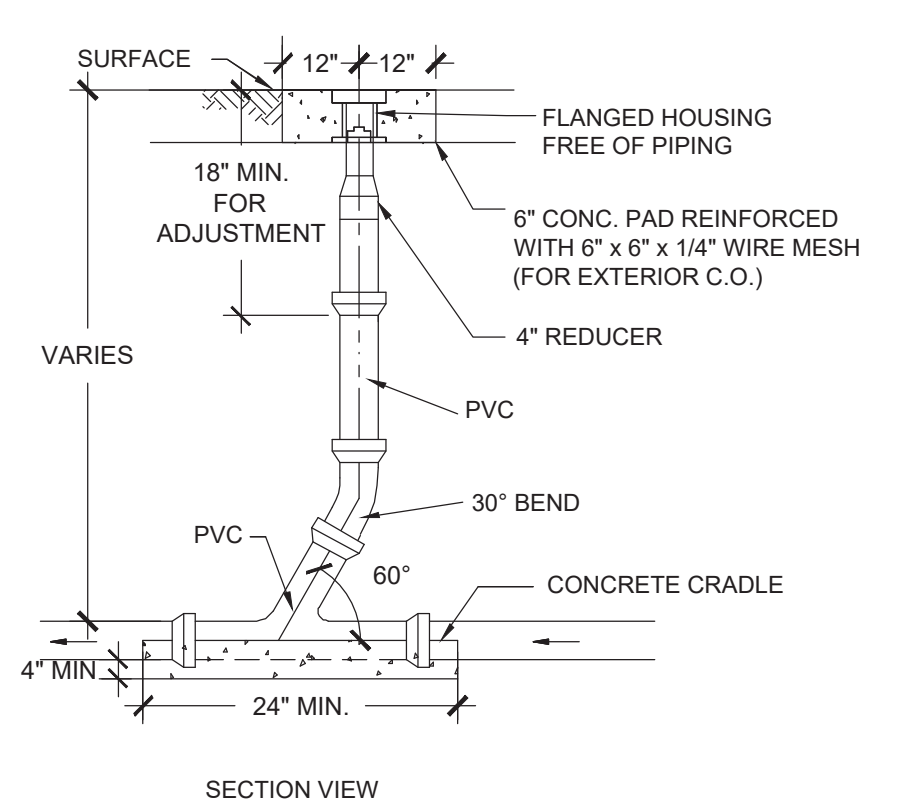


4 TIRE SHOP EXHAUST FAN SECTION
NTS



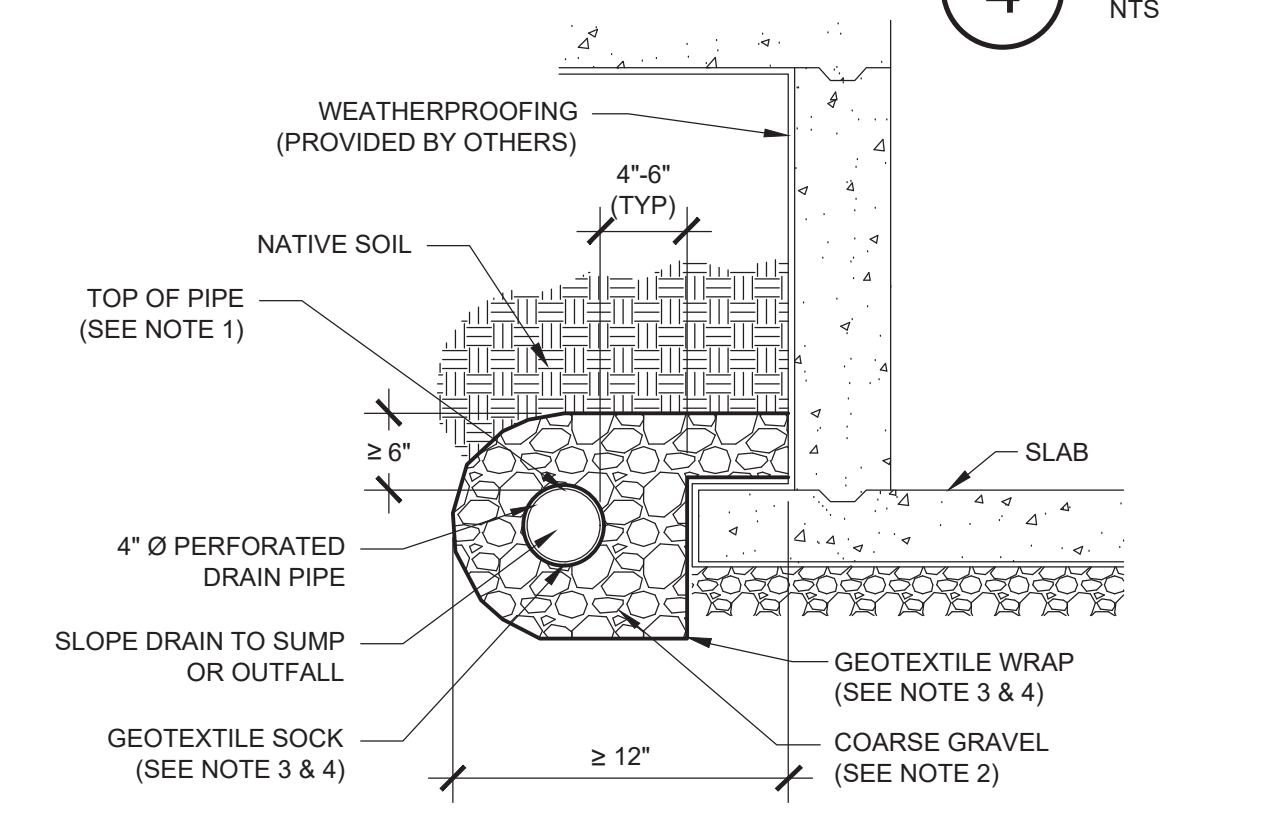
ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. PIT EXCAVATION IS BY PLUMBING CONTRACTOR. LOCATE FLOATS AT ELEVATIONS RECOMMENDED BY PUMP MANUFACTURER. LOCATE AND ARRANGE SO THAT COVER AND PUMPS CAN BE REMOVED.

3 SUMP PUMP DETAIL
SCALE: NTS



NOTES:
1. COVER SHALL HAVE A LOCKING LID MARKED "SEWER".
2. DESIGN BASIS IS JAY R. SMITH MODEL 4250; REFER TO SPECIFICATIONS

2 SANITARY SEWER CLEANOUT
SCALE: N.T.S.



NOTES
1. TOP OF PERFORATED PIPE MUST BE AT OR BELOW THE TOP OF FOOTING.
2. BACKFILL MUST BE SIZED AT LEAST ONE SIEVE SIZE (ROCK SIZE) LARGER THAN DIMENSIONS OF PERFORATIONS, OTHERWISE A GEOTEXTILE WRAP AROUND THE PIPE IS REQUIRED.
3. FOR NATIVE SOIL WITH HIGH SAND CONTENT, A GEOTEXTILE BETWEEN THE BACKFILL AND NATIVE SOIL SHOULD BE USED. FOR NATIVE SOIL WHERE THE CLAY CONTENT EXCEEDS 50% OR THE SILT CONTENT EXCEEDS 40%, A GEOTEXTILE IS NOT REQUIRED AROUND THE PIPE.
4. FOR NATIVE SOIL WITH LESS THAN 50% PASSING THE NO. 200 SIEVE, THE APPARENT OPENING SIZE (AOS) OF THE FABRIC SHOULD BE AT LEAST A NO. 30 SIEVE. FOR NATIVE SOIL WITH MORE THAN 50% PASSING THE NO. 200 SIEVE, THE AOS OF THE FABRIC SHOULD BE AT LEAST A NO. 50 SIEVE.

1 FOUNDATION & SUBSURFACE DRAIN INSTALLATION
NTS

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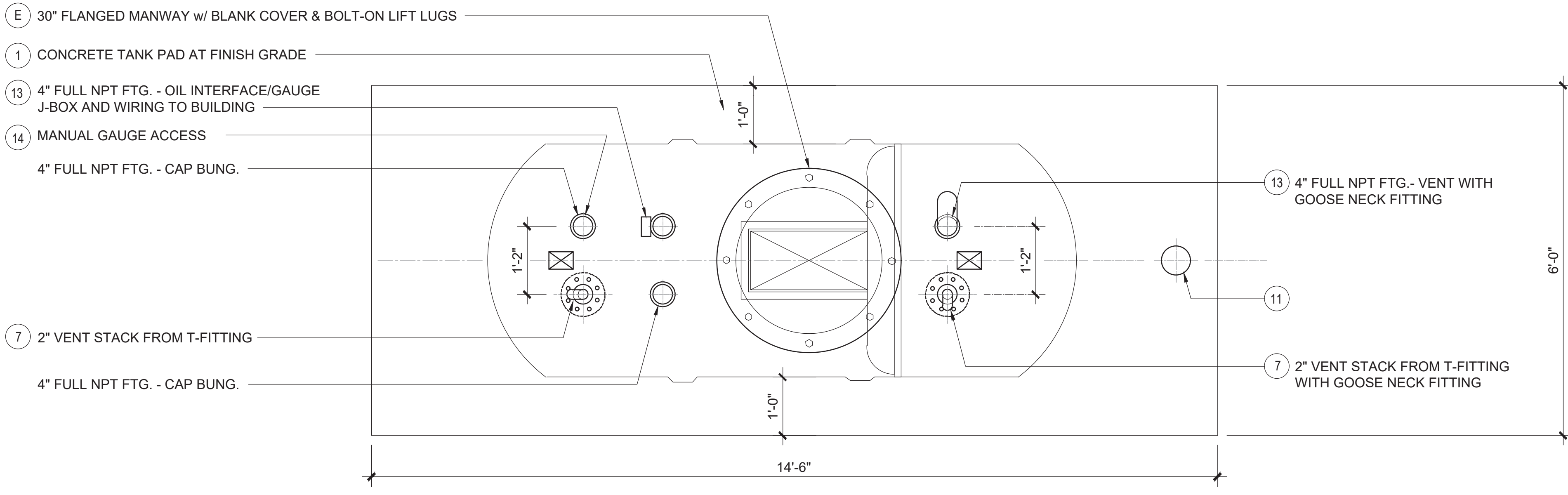
OIL/WATER SEPARATOR
DETAILS
SHEET:
YM3.2

OIL/WATER SEPARATOR	
MK	PROVIDED EQUIPMENT
A	SINGLE WALL TANK
B	FRP HOLD DOWN STRAPS AND TURNBUCKLE ASSEMBLY
C	PRECAST DEADMEN ANCHORS WITH EYEBOLTS
D	NOT USED
E	30" FLANGED MANWAY ACCESS
F	NPT THREADED CONNECTIONS WITH 6" VAN STONE FLANGE
G	NPT 4" THREADED CONNECTION
H	NOT USED
I	COALESCER PACKS
J	CROSSFLOW BAFFLE

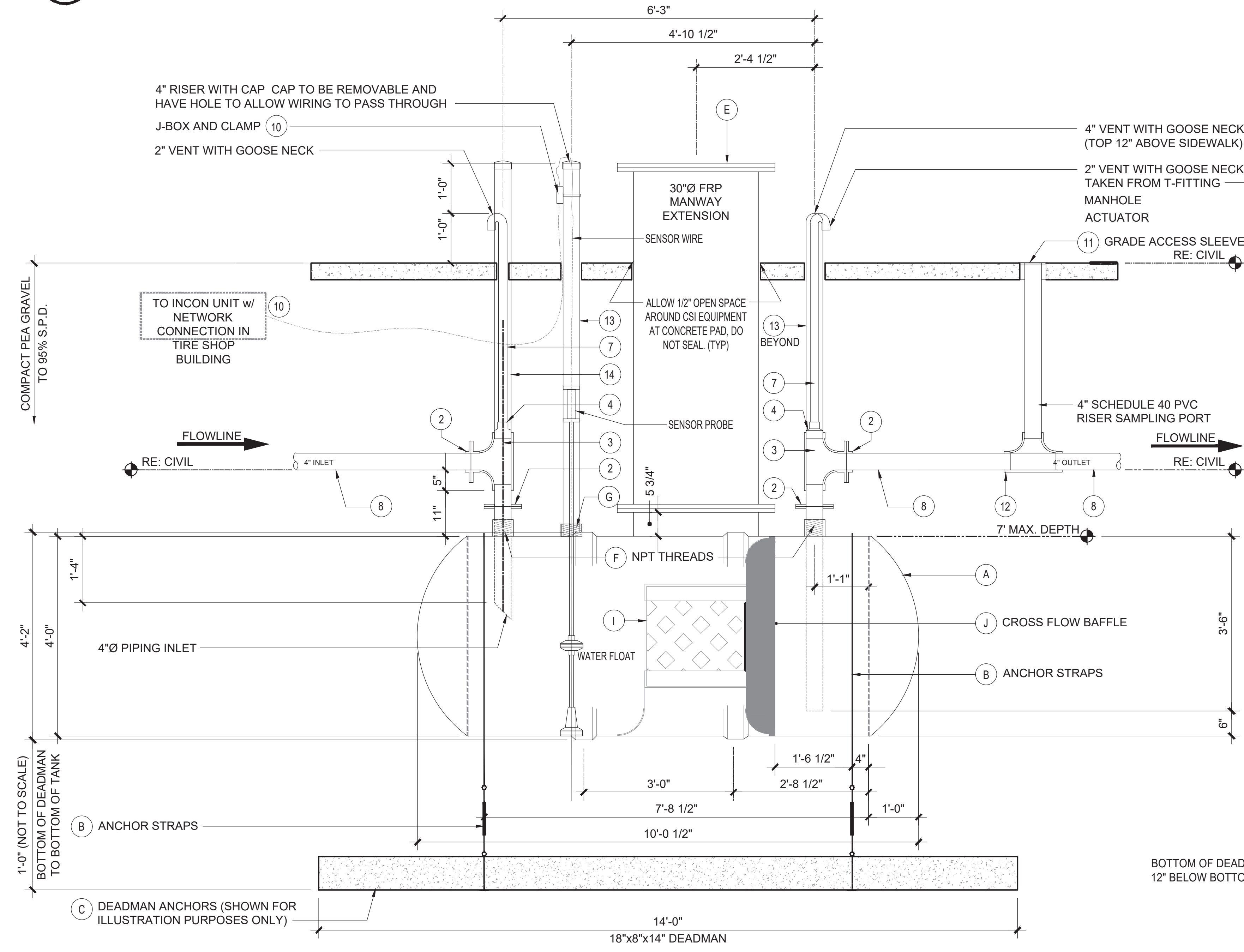
CONTAINMENT SOLUTIONS CONROE, TEXAS SWT
(4) 550 OWS CSI - 10 - PROVIDED BY OWNER,
INSTALL IN TANK HOLE BY FUEL CONTRACTOR

FURNISHED BY CONTRACTORS		
1	CONCRETE TANK PAD AT FINISHED GRADE, RE: CIVIL DRAWINGS	BY G.C.
2	4" PVC FLANGE	BY G.C.
3	4" x 4" x 4" PVC T	BY G.C.
4	4" x 2" PVC REDUCER	BY F.C.
5	NOT USED	-
6	4" DIA. VENT PIPING BLACK IRON OR GALVANIZED PIPING, GOOSENECK FITTING	BY F.C.
7	2" BLACK IRON OR GALV. RISER VENT WITH NPT THREADS, GOOSENECK FITTING	BY F.C.
8	4" INLET AND OUTLET PIPING, RE: CIVIL	BY G.C.
9	NOT USED	BY F.C.
10	LOW VOLTAGE, INCON OIL LEVEL PROBE FROM FRANKLIN FUELING, WITH J-BOX/CLAMPS AND THREADED CAP, CONNECT TO ATG (INCON EVO UNIT)	BY F.C.
11	EFFLUENT MONITOR ACCESS PORT, 4" PVC RISER WITH FLUSH THREADED CAP	BY G.C.
12	4" x 4" x 4" PVC T	BY G.C.
13	BLACK IRON OR GALV. RISER WITH NPT THREADS	BY F.C.
14	BLACK IRON OR GALVANIZED GAUGE PORT WITH NPT THREADS & 4" THREADED TOP CAP	BY F.C.

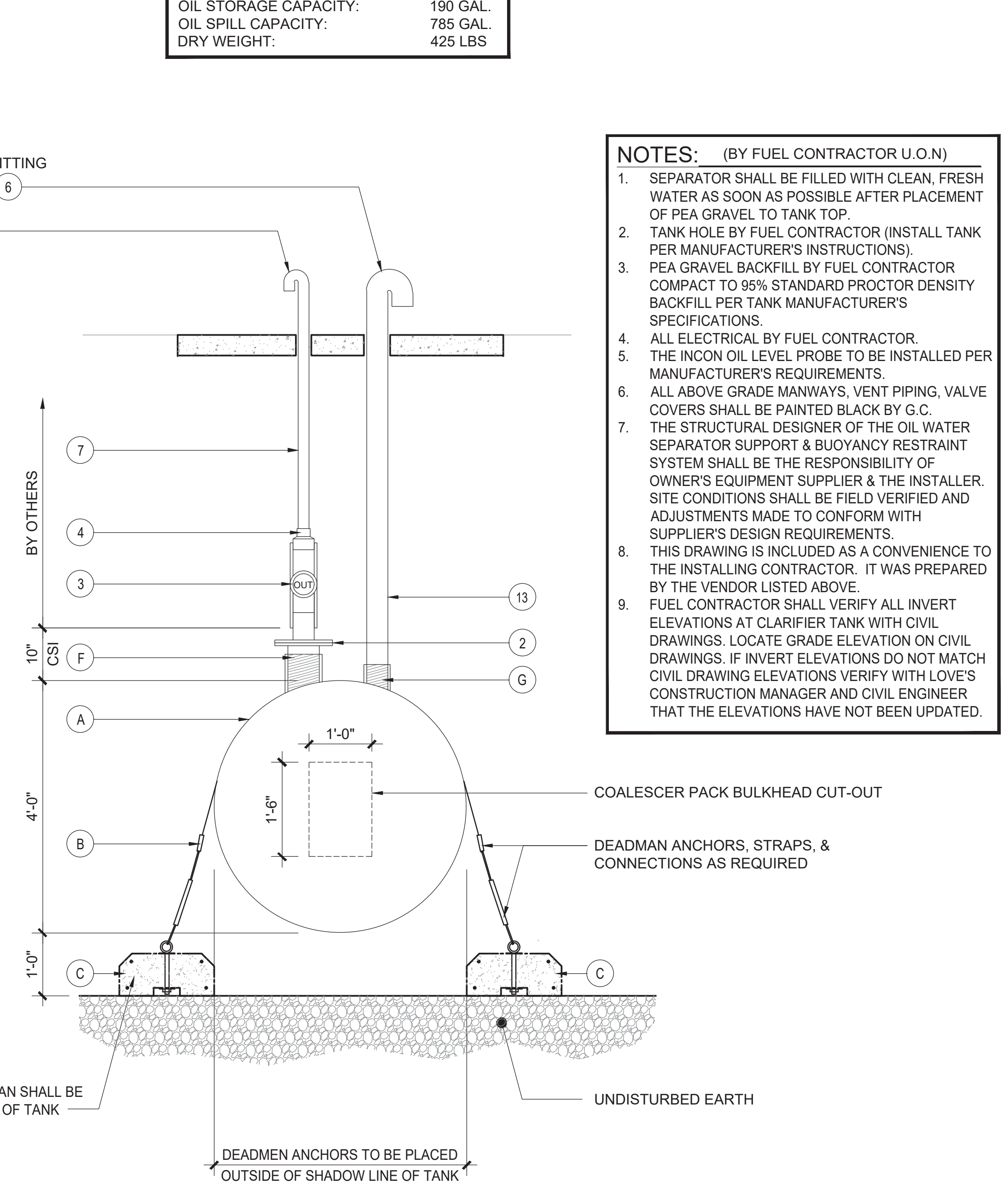
SEPARATOR DESIGN	
MAX. INFLUENT CAPACITY (IN):	400 PPM
MAX. EFFLUENT CAPACITY (OUT):	10 PPM
MAX. FLOW RATE:	55 GPM
OIL STORAGE CAPACITY:	190 GAL.
OIL SPILL CAPACITY:	785 GAL.
DRY WEIGHT:	425 LBS



1 OIL/WATER SEPARATOR - PLAN
SCALE: 3/4" = 1'-0"



2 OIL/WATER SEPARATOR - ELEVATION
SCALE: NTS



3 OIL/WATER SEPARATOR - ELEVATION
SCALE: NTS

NOTES: (BY FUEL CONTRACTOR U.O.N)

- SEPARATOR SHALL BE FILLED WITH CLEAN, FRESH WATER AS SOON AS POSSIBLE AFTER PLACEMENT OF PEA GRAVEL TO TANK TOP.
- TANK HOLE BY FUEL CONTRACTOR (INSTALL TANK PER MANUFACTURER'S INSTRUCTIONS).
- PEA GRAVEL BACKFILL BY FUEL CONTRACTOR COMPACT TO 95% STANDARD PROCTOR DENSITY BACKFILL PER TANK MANUFACTURER'S SPECIFICATIONS.
- ALL ELECTRICAL BY FUEL CONTRACTOR.
- THE INCON OIL LEVEL PROBE TO BE INSTALLED PER MANUFACTURER'S REQUIREMENTS.
- ALL ABOVE GRADE MANWAYS, VENT PIPING, VALVE COVERS SHALL BE PAINTED BLACK BY G.C.
- THE STRUCTURAL DESIGNER OF THE OIL WATER SEPARATOR SUPPORT & BUOYANCY RESTRAINT SYSTEM SHALL BE THE RESPONSIBILITY OF OWNER'S EQUIPMENT SUPPLIER & THE INSTALLER. SITE CONDITIONS SHALL BE FIELD VERIFIED AND ADJUSTMENTS MADE TO CONFORM WITH SUPPLIER'S DESIGN REQUIREMENTS.
- THIS DRAWING IS INCLUDED AS A CONVENIENCE TO THE INSTALLING CONTRACTOR. IT WAS PREPARED BY THE VENDOR LISTED ABOVE.
- FUEL CONTRACTOR SHALL VERIFY ALL INVERT ELEVATIONS AT CLARIFIER TANK WITH CIVIL DRAWINGS. LOCATE GRADE ELEVATION ON CIVIL DRAWINGS. IF INVERT ELEVATIONS DO NOT MATCH CIVIL DRAWING ELEVATIONS VERIFY WITH LOVE'S CONSTRUCTION MANAGER AND CIVIL ENGINEER THAT THE ELEVATIONS HAVE NOT BEEN UPDATED.

GENERAL SPECIFICATIONS

INTRODUCTION
THE CONTRACTOR FOR INSTALLATION OF THE ELECTRICAL SYSTEM WILL BE ACCOMPLISHED IN THE FIELD AT THE DIVISION LEVEL. THESE SPECIFICATIONS ARE TO AID IN PREPARATION OF DIVISION LEVEL STORE PLANS AND CONTRACT DOCUMENTS...

WIRING METHODS

PART 1 - GENERAL
1.1 SUMMARY
A. SECTION INCLUDES:
1. WIRE AND CABLE.
2. CONDUIT.
3. OUTLET BOXES AND CONDUIT FITTINGS.
4. WIRING DEVICES.

PANELBOARDS

PART 1 - GENERAL
1.1 SUMMARY
A. SECTION INCLUDES:
1. LIGHTING/APPLIANCE PANELBOARDS.
B. RELATED REQUIREMENTS
1. SECTION 16050 - BASIC ELECTRICAL MATERIALS AND METHODS, GROUNDING.

GENERAL NOTES

1. PROVIDE SEALS AT RACEWAY PENETRATIONS AS FOLLOWS:
A. FIRE RATED WALLS: SEAL WITH SEALANT HAVING A T-RATING TO MATCH OR EXCEED WALL RATING.

SYMBOL LEGEND

Table with 2 columns: SYMBOL and DESCRIPTION. Includes symbols for EXIT FIXTURE, EMERGENCY FIXTURE, SWITCH, SINGLE POLE, SWITCH, 3-WAY, SWITCH, 4-WAY, SWITCH, KEYED, SWITCH, DIMMER, SWITCH, VARIABLE SPEED, SWITCH, MANUAL MOTOR, ULTRASONIC WALL SWITCH OCC, etc.

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ISSUE BLOCK table with columns for issue tracking.

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STATE OF MICHIGAN
JAMES R. CASTANEDA
ENGINEER
No. 8201057989
LICENSED PROFESSIONAL ENGINEER

2021.05.05 17:48:59-05'00"

ELECTRICAL SPECIFICATIONS & GENERAL NOTES

SHEET: YE1

MATERIALS AND METHODS

PART 1 - GENERAL
1.1 SUMMARY
A. SECTION INCLUDES:
1. ELECTRICAL IDENTIFICATION
2. HANGERS AND SUPPORTS
3. CONDUIT SLEEVES
4. GROUNDING AND BONDING PRODUCTS

PART 2 - EXECUTION
2.1 INSTALLATION
A. INSTALL SPECIFIED MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND AS INDICATED ON DRAWINGS.

2.3 TESTING
A. UPON COMPLETION OF INSTALLATION, PERFORM CONTINUITY TESTS ON POWER AND EQUIPMENT BRANCH CIRCUIT CONDUCTORS, INSPECT WIRE AND CABLE FOR PHYSICAL DAMAGE. VERIFY PROPER PHASING CONNECTIONS.

SAFETY SWITCHES

PART 1 - GENERAL
1.1 SUMMARY
A. SECTION INCLUDES:
1. SAFETY DISCONNECT SWITCHES.

ALL ELECTRICAL SERVICE AND DISTRIBUTION EQUIPMENT, PANELBOARDS, DISCONNECT SWITCHES AND LIGHTING FIXTURES TO BE FURNISHED BY THE ACCOUNT VENDOR, GRAYBAR.

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LIGHTING NOTES

- EXIT SIGN MOUNTING
 - WALL FIXTURE: CENTER 12" ABOVE DOOR OPENING.
 - CEILING/PENDANT FIXTURE: ON CEILING OR AT HEIGHT SPECIFIED ON DRAWINGS.
 - THE USE OF TRITIUM BASED RADIOACTIVE EXIT SIGNAGE SHALL NOT BE ALLOWED.
- EMERGENCY LIGHT INSTALLATION FIXTURE MOUNTING
 - WALL FIXTURE: 12" BELOW FINISHED CEILING OR +10'-0" IN AREAS OF EXPOSED STRUCTURE UNLESS NOTED OTHERWISE.
 - PENDANT FIXTURE: BOTTOM CHORD OF STRUCTURE OR AT HEIGHT SPECIFIED ON DRAWINGS.
 - REMOTE HEAD FIXTURE: HEADS CENTERED ABOVE DOOR OPENING +9'-0" UNLESS NOTED OTHERWISE.
- ELECTRICAL CONNECTION
 - REFER TO MANUFACTURER'S WRITTEN INSTRUCTIONS. ALLOW BATTERY TO CHARGE CONTINUOUSLY FOR A MINIMUM OF 168 HOURS BEFORE INITIAL TESTING.
 - AFTER EMERGENCY LIGHT HAS BEEN POWERED, DO NOT TURN OFF FOR EXTENDED PERIODS OF TIME.
- EXIT SIGNS AND EMERGENCY LIGHTS SHALL BE FED FROM THE SAME BRANCH CIRCUIT AS THAT SERVING THE NORMAL LIGHTING IN THAT AREA AND CONNECTED AHEAD OF ANY LOCAL SWITCHES OR TIME CLOCKS.
- EMERGENCY EXIT ILLUMINATION SHALL BE SUPPLIED FROM STORAGE BATTERY THAT IS TO PROVIDE 90 MINUTES OF CONTINUED ILLUMINATION IN CASE OF PRIMARY POWER LOSS.
- PROVIDE SEPARATE BOXES FOR GANGED SWITCHES ON SEPARATE BRANCH CIRCUITS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ASSURING THAT ALL NEW LIGHT FIXTURES WORK PROPERLY. REPORT DEFECTIVE OR DAMAGED COMPONENTS TO OWNER.
- CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS TO MAINTAIN BRANCH CIRCUITS TO EXISTING LIGHT FIXTURES THAT ARE TO REMAIN. WHERE EXISTING CIRCUITS ARE ROUTED IN AREAS BEING DEMOLISHED, RE-ROUTE IN NEW CONSTRUCTION AND RECONNECT.
- CONTRACTOR SHALL FURNISH AND INSTALL UNISTRUT AS REQUIRED TO MOUNT FIXTURES TO STRUCTURAL MEMBERS.
- CONDUIT AND WIRING IN AREAS WHERE EXPOSED SHALL BE ROUTED AT 90 DEGREE ANGLES PERPENDICULAR OR PARALLEL TO BUILDING LINES.

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KEYNOTES

- ROUTE CIRCUIT THROUGH EXISTING LIGHTING CONTACTOR.
- MOUNT TO BOTTOM OF STRUCTURE. PROVIDE UNISTRUT AND ALL ALL NECESSARY HARDWARE TO ATTACH LIGHTS AS NEEDED.
- ROUTE CIRCUIT THROUGH MINI-INVERTER LOCATED IN BELOW MEZZANINE. E.C. SHALL PROVIDE ALL WIRING REQUIRED FOR DIMMING BETWEEN LIGHT FIXTURES AND INVERTER.
- ROUTE CIRCUIT THROUGH LUBE PIT CONTROL RELAY. REFERENCE LUBE PIT CONTROL RELAY DETAIL FOR ADDITIONAL INFORMATION.

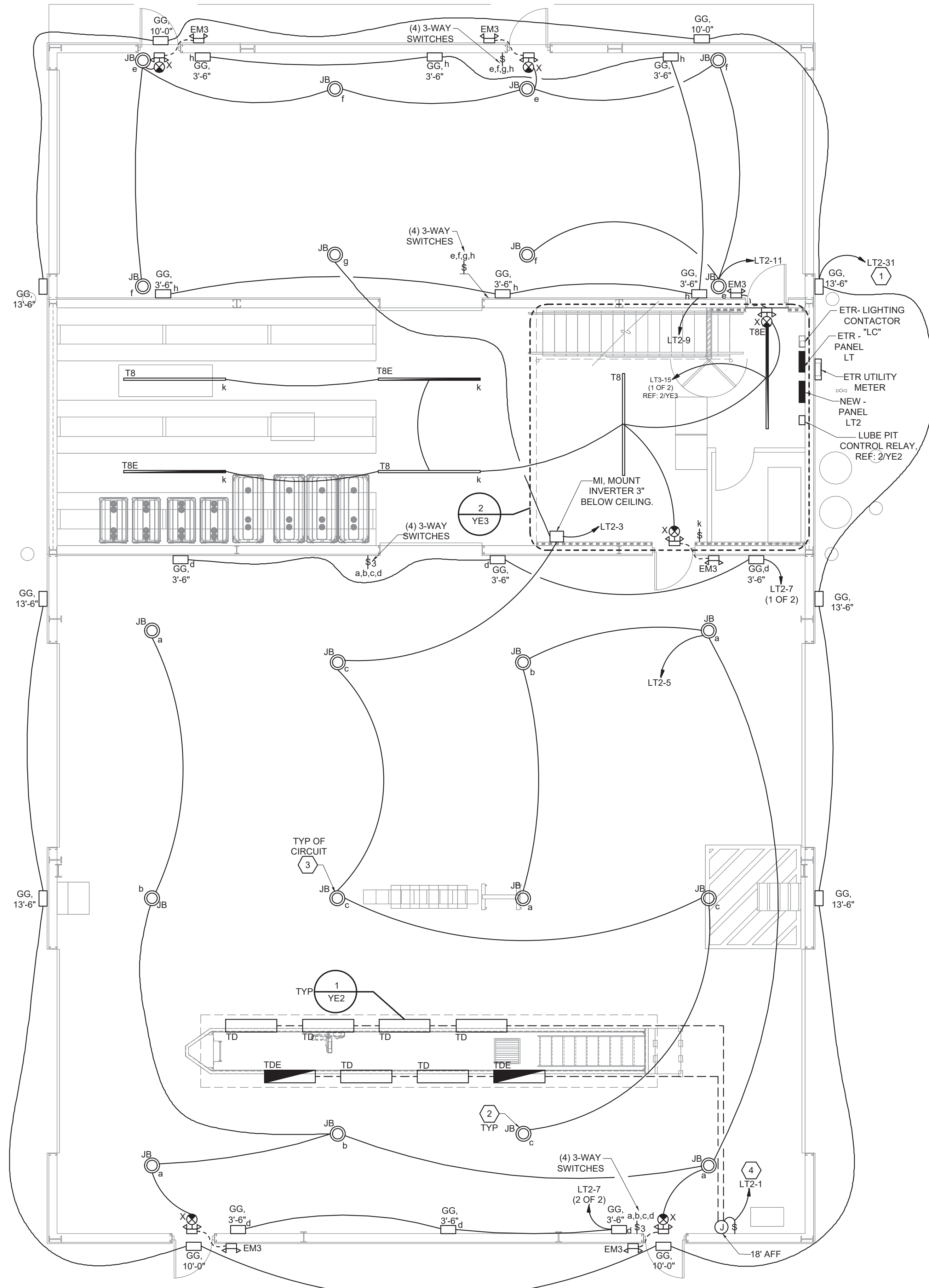
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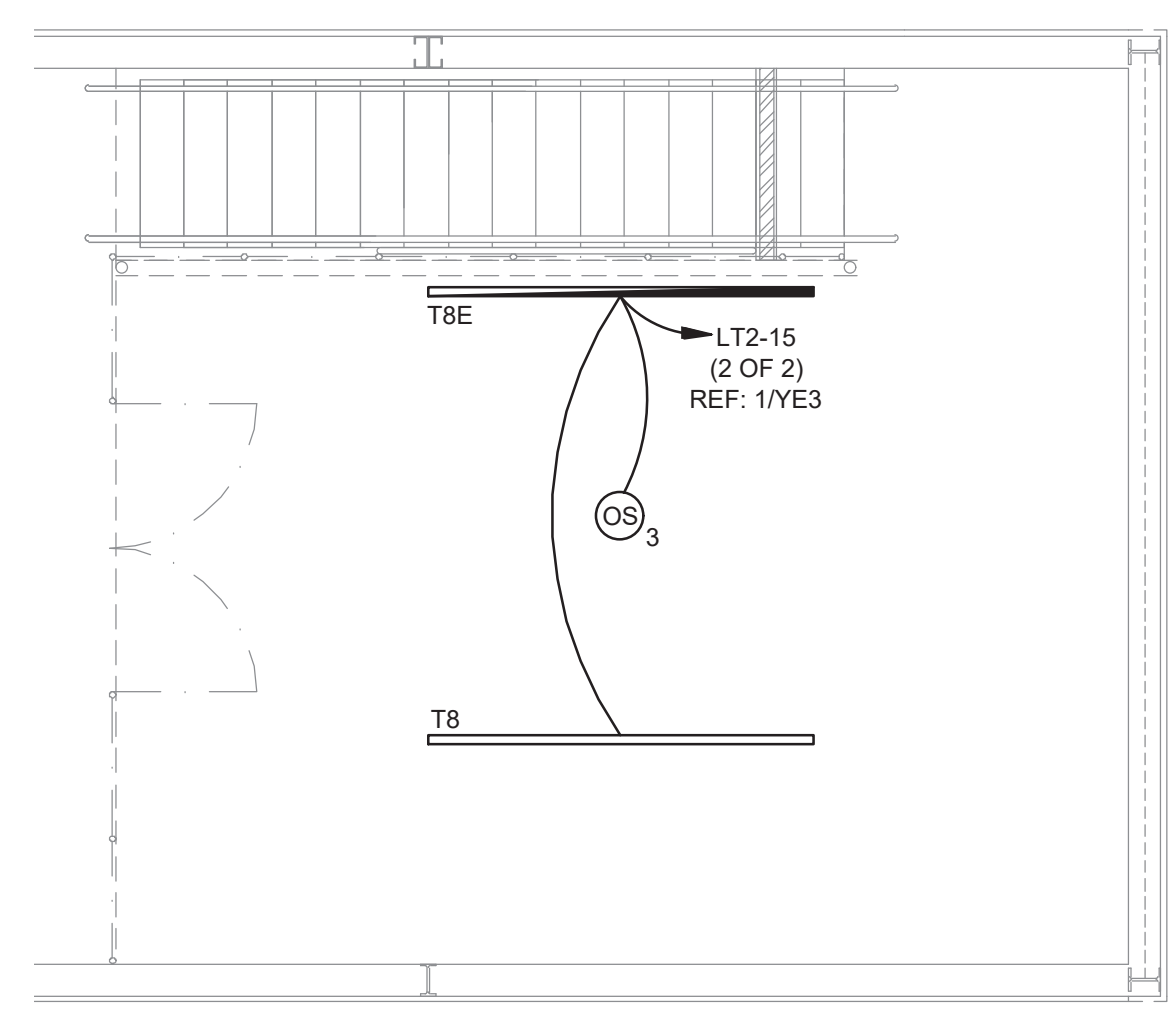


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LIGHTING FLOOR PLAN
SHEET: **YE3**



- VERIFY HEIGHT, LOCATION AND FUNCTIONALITY OF EXISTING PHOTO-CELL TO ENSURE PROPER CONTROL OF EXTERIOR LIGHTING
- WHERE EXPOSED, CONDUIT AND WIRING SHALL BE ROUTED AT 90 DEGREE ANGLES PERPENDICULAR OR PARALLEL TO BUILDING LINES. (TYP.)
- ROUTE CONDUIT ON INTERIOR SIDE OF WALL. SEAL PENETRATIONS AS REQUIRED. (TYP. OF EXTERIOR WALL MOUNTED FIXTURES)
- REPLACE ANY MISSING, DAMAGED OR BROKEN LIGHT LENSES, SWITCHES AND COVERPLATES THROUGHOUT THE INTERIOR AND EXTERIOR OF THE BUILDING



2 MEZZANINE LIGHTING PLAN
SCALE: 1/4"=1'-0"

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

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT HIMSELF WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING HIS WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

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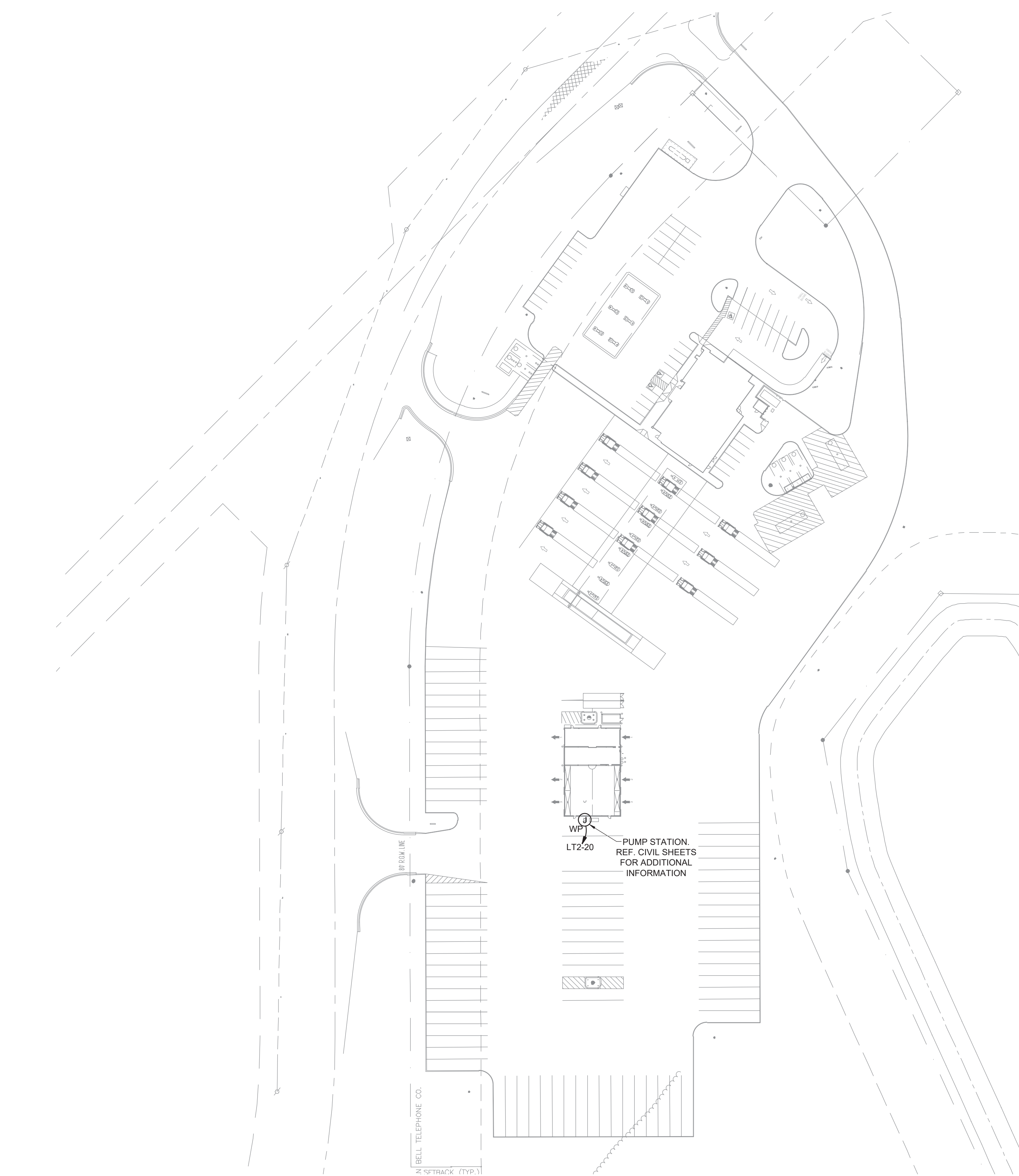
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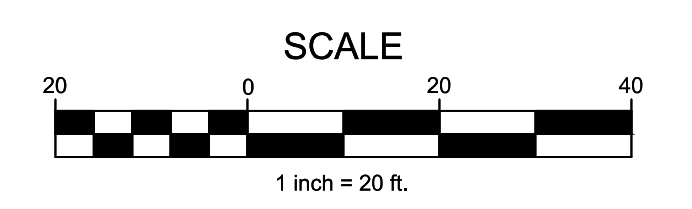
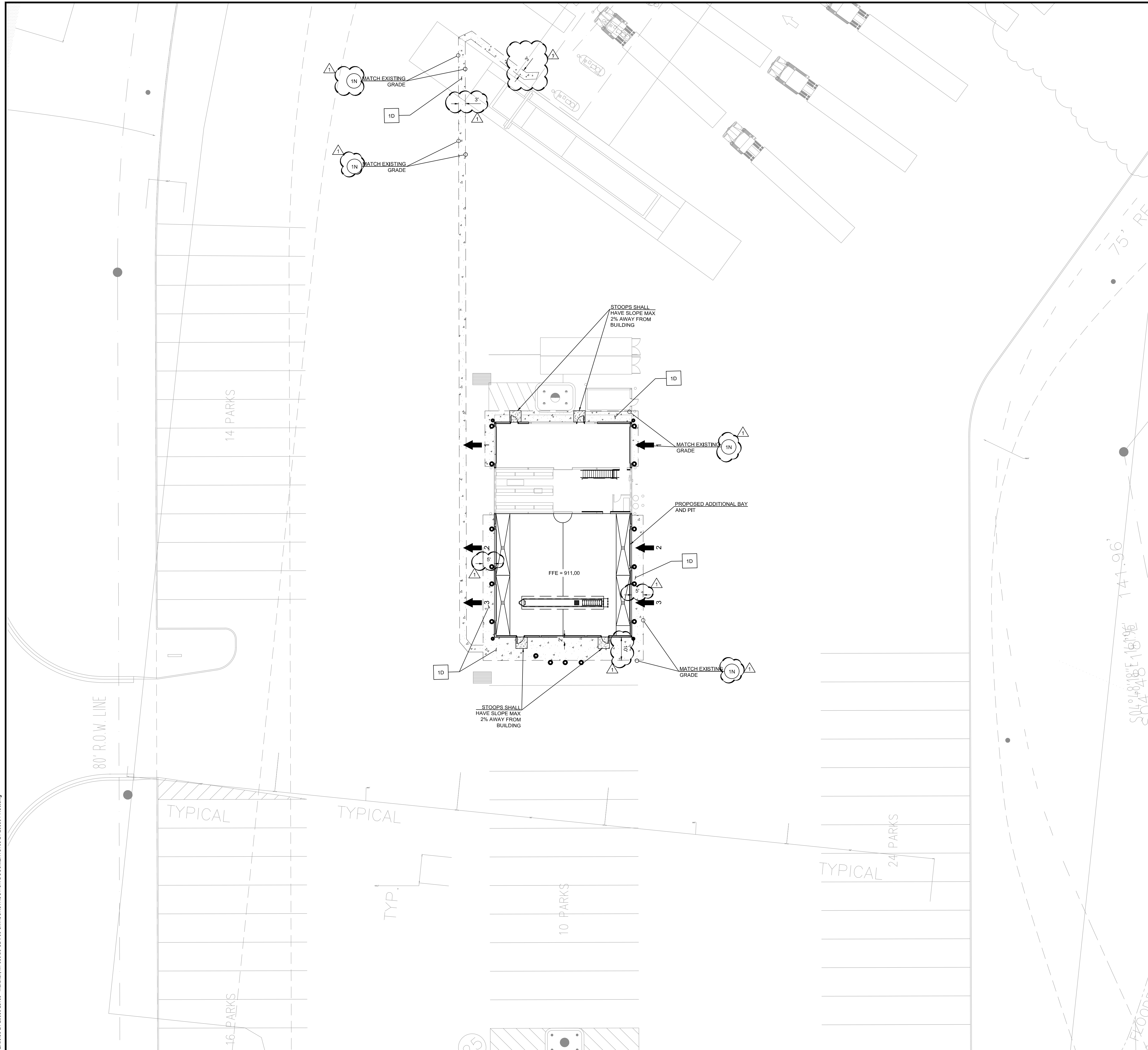
SITE POWER PLAN

SHEET: **YE5**



1 SITE PLAN
 SCALE: 1" = 70'-0"

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PROPOSED

- PROPERTY LINE
- - - BREAKLINE
- XXX.XX SPOT ELEVATION
- FFE FINISHED FLOOR ELEVATION
- FG FINISHED GRADE
- G GUTTER
- TC TOP OF CURB
- EG EXISTING GRADE
- PROPOSED BOLLARD; SEE ARCH. PLANS

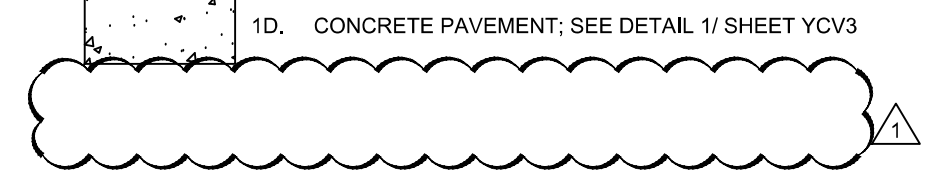
GENERAL GRADING NOTES

1. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR PAVED AND UNPAVED AREAS.

NOTES

- 1N. SAWCUT LINE/ MATCH EXISTING ELEVATIONS

DETAILS



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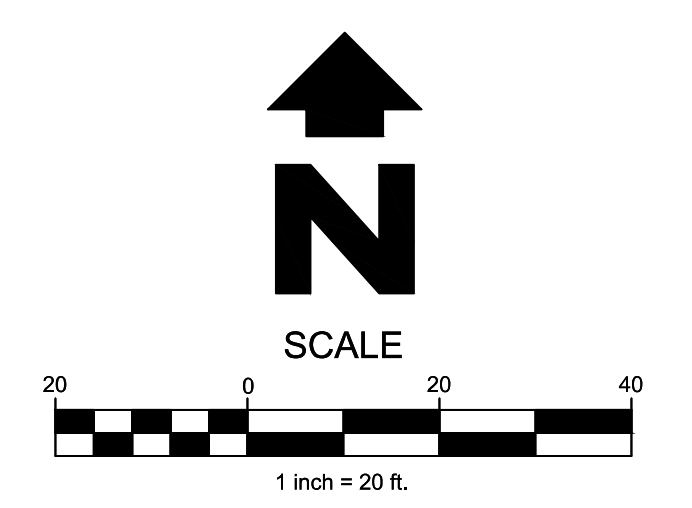
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GRADING PLAN

SHEET: **YCV2**

A SURVEY WAS NOT AVAILABLE FOR THE CREATION OF THIS PLAN. IDENTIFICATION OF UTILITIES WERE BASED ON PREVIOUS AS-BUILTS OF THE SITE



PROPOSED LEGEND

- PROPERTY LINE
- SANITARY SEWER LINE

NOTES

- 1N. SANITARY SERVICE ENTRANCE. SEE MEP PLANS FOR CONTINUATION IN TO BUILDING.
- 2N. CONNECT TO EXISTING SANITARY SEWER LINE VIA WYE CONNECTION.
- 3N. OIL/WATER SEPARATOR (SEE DETAILS ON MEP SHEET Y13.2)

DETAILS

- 1D. UTILITY TRENCH AND BEDDING. SEE DETAIL 2/YCV3
- 2D. SANITARY SEWER CLEAN-OUT (SEE MEP PLANS FOR SCHEDULE). SEE DETAIL 4/YCV3
- 3D. TWO-WAY SANITARY SEWER CLEAN-OUT (SEE MEP PLANS FOR SCHEDULE). SEE DETAIL 5/YCV3
- 4D. SUMP PUMP. SEE DETAIL 6/YCV3

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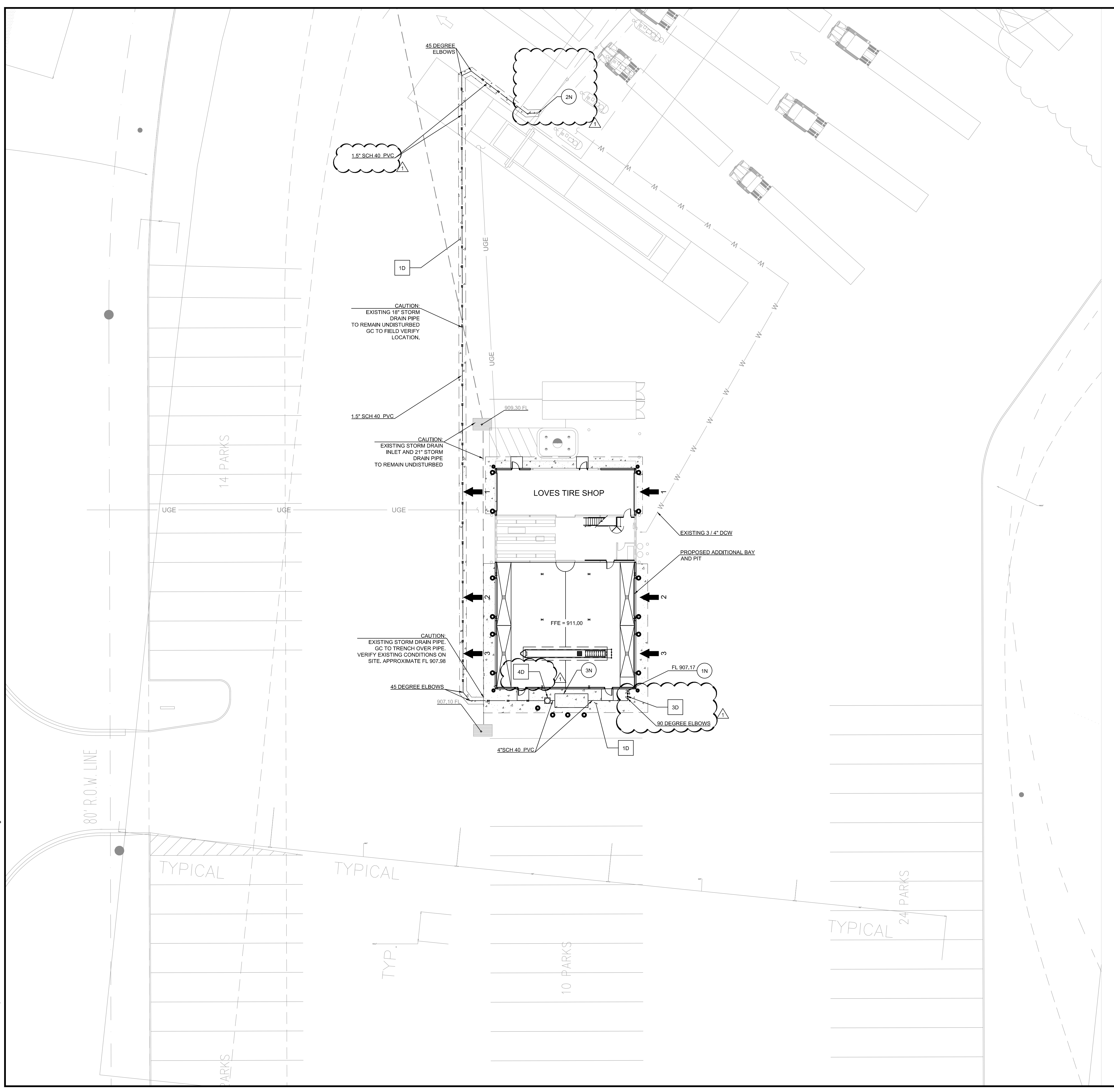
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UTILITY PLAN

SHEET: YCV2.1

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