

# Love's

## Travel Stop & Country Stores

LIGHT MECHANICAL  
SERVICES ADDITION

STORE #336  
18720 PARTELLLO 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  
10601 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

**ARCHITECT:**  
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

**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

DOOR NUMBER	SHEET LOCATION
ROOM NAME / ROOM NUMBER	DETAIL MARK
WINDOW NUMBER	HEIGHT REFERENCE POINT
INTERIOR FINISH NUMBER	SIGN TYPE
EQUIPMENT NUMBER	PARTITION TYPE - STUD WIDTH
OIL EQUIPMENT NUMBER	(3) = 3.5/8" (6) = 6"

### BUILDING AREA

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

### 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	OPICI	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	TP	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		

### INDEX OF DRAWINGS:

ARCHITECTURAL	
YC1	COVER SHEET & INDEX
YLS1	LIFE SAFETY PLAN
YSP1	OVERALL SITE PLAN
YSP2	ENLARGED SITE PLAN & DETAILS
YD1	DEMOLITION PLAN
YA1	OVERALL FLOOR PLAN
YA1.1	FINISH LEGEND, ROOM FINISH SCHEDULE, & ENLARGED PLAN
YA2	EXTERIOR ELEVATIONS
YA3	WALL SECTIONS & DETAILS
YA4	LUBE PIT SECTIONS & DETAILS
YA4.1	LUBE PIT PLAN & SECTIONS
YA5	INTERIOR ELEVATIONS
YA5.1	INTERIOR ELEVATIONS
YA5.2	SECTIONS, DETAILS & INTERIOR ELEVATIONS
YA6	DOOR SCHEDULES, ELEVATIONS & DETAILS
YA6.1	WINDOW SCHEDULE, ELEVATIONS & DETAILS
YA7	TANK ELEVATIONS
YA7.1	TANK DETAILS & SCHEDULE
STRUCTURAL	
YS1.0	GENERAL NOTES & TYPICAL DETAILS
YS2.0	FOUNDATION PLAN & TYPICAL DETAILS
YS2.1	FOUNDATION DETAILS
YS3.0	MEZZANINE FRAMING PLAN & MEZZANINE FRAMING DETAILS
YS4.1	LUBE PIT PLAN AND PIT DETAILS
MECHANICAL	
YM1.0	MECHANICAL & PLUMBING SPECIFICATIONS
YM2.0	MECHANICAL FLOOR PLAN
YM2.1	PLUMBING FLOOR PLAN
YM2.2	AIR AND WATER PLAN
YM3.0	MECHANICAL DETAILS
YM3.1	MECHANICAL SCHEDULES
YM3.2	OIL/WATER SEPARATOR DETAILS
ELECTRICAL	
YE1	ELECTRICAL SPECIFICATIONS & GENERAL NOTES
YE2	SCHEDULES & NOTES
YE3	LIGHTING FLOOR PLAN
YE4	POWER FLOOR PLAN
YE5	SITE POWER PLAN
CIVIL	
YCV1	EXISTING GRADES
YCV2	GRADING PLAN
YCV2.1	UTILITY PLAN
YCV3	DETAIL SHEET

### RESPONSIBILITY SCHEDULE

WORK SCHEDULE	FURNISHED BY		INSTALLED BY
	GC	O = OWNER	
GENERAL			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

ANY ITEMS NOT LISTED ABOVE TO BE INSTALLED BY GC.

**HFA**  
Creative Solutions  
Meaningful Places

**HARRISON FRENCH & ASSOCIATES, LTD**

1705 S. Walton Blvd., Suite 3  
Bentonville, Arkansas 72712  
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**REMODEL**

STORE NUMBER: 336  
18720 PARTELLLO RD  
MARSHALL, MI 49068

JOB NUMBER: 03-21-20336

**ISSUE BLOCK**

NO.	DATE	DESCRIPTION
1	07/09/21	ADD 1
3	09/20/22	CCD 1

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

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

2022.09.23  
08:10:55-0500

COVER SHEET & INDEX

SHEET: **YC1**

Sept22,2022 7:55am - User: jpoegh/haney  
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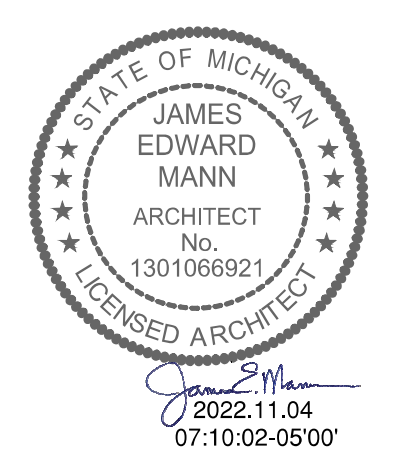
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**REMODEL**  
STORE NUMBER: 336  
18720 PARTEILLO RD  
MARSHALL, MI 48068  
JOB NUMBER: 03-21-20336

**ISSUE BLOCK**

1	07/09/21	ADD 1
2	04/01/22	ADD 2
3	09/20/22	CCD 1
4	11/04/22	CCD 2

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



**LIFE SAFETY PLAN**  
SHEET: **YLS1**

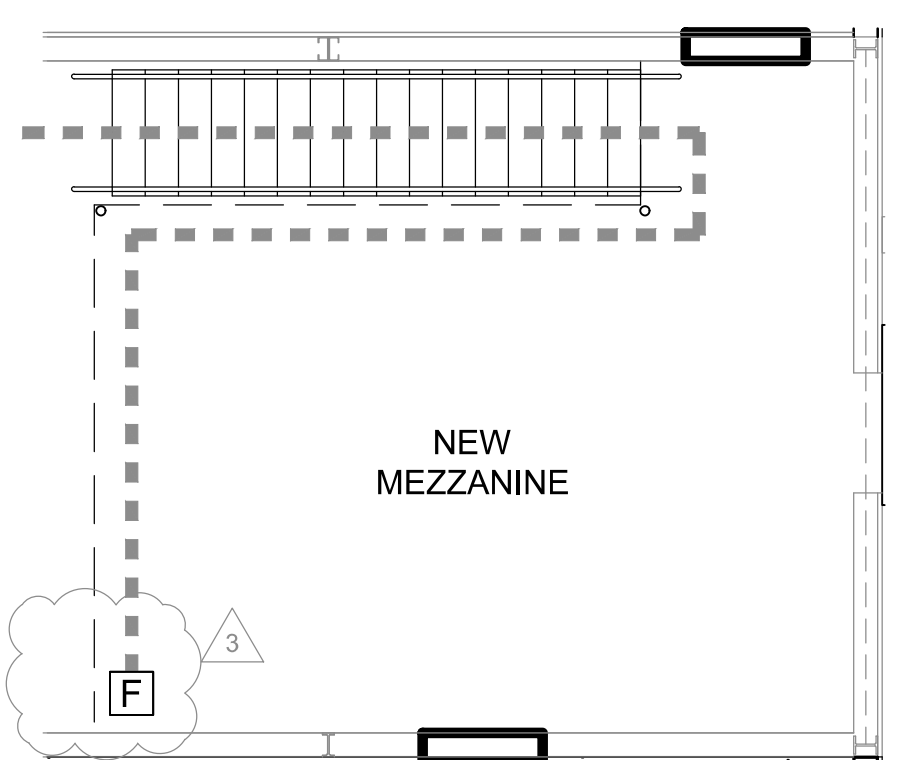
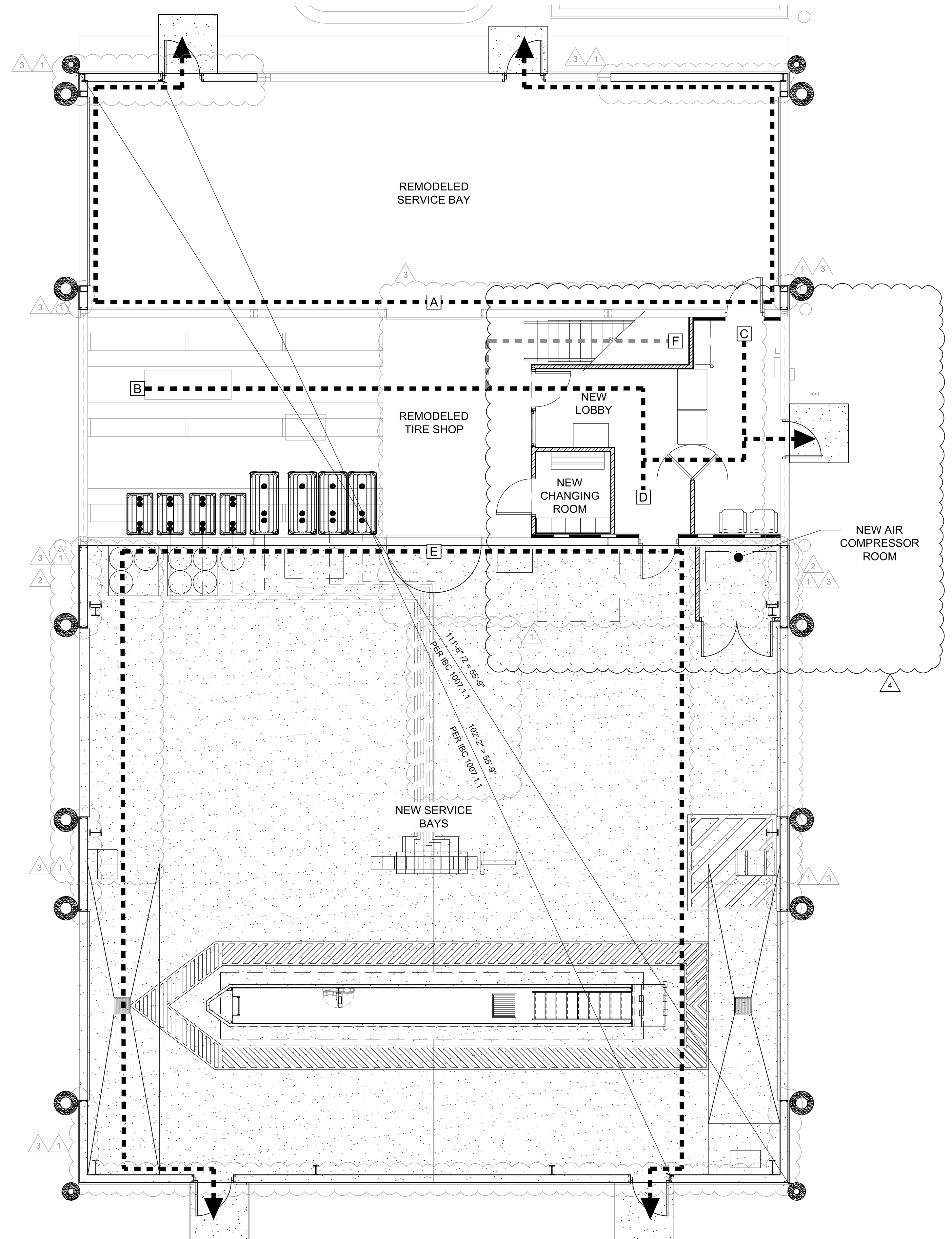
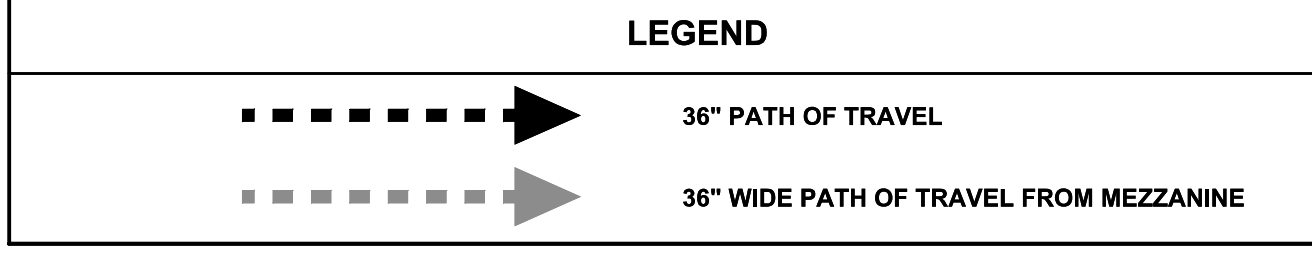
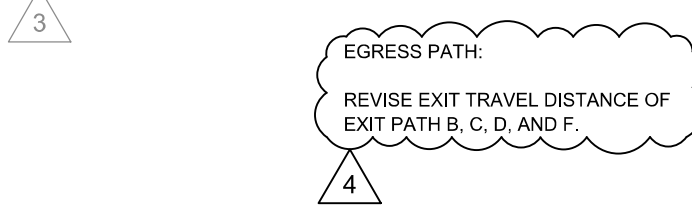
**Egress Area & Occupant Load Calculations**

Area	Occupant Load Calculation Per IBC 1004.1.2 Table:	Occupants	Egress Width Required Per IBC 1005.3.2:	Egress Width Provided:
<b>Area A</b>	Remodeled Service Bay = 1,200 SF @ 500 SF GROSS =	3 Occupants	0.2 Inches Per Occupant @ 3 Occupants =	2 Door(s) @ 32 inches =
	<b>Total Occupant Load For Area (A)=</b>	<b>3 Occupants</b>	<b>Total Inches Req'd For Area (A)=</b>	<b>64 Inches</b>
	<b>Egress Width Required Per IBC 1005.3.2:</b>	<b>0.6 Inches</b>	<b>Total Inches Req'd For Area (A)=</b>	<b>64 Inches Provided</b>
	<b>Egress Width Provided:</b>			
	<b>Total Inches Provided For Area (A)=</b>			
<b>Area B</b>	Existing Tire Shop = 835 SF @ 500 SF GROSS =	2 Occupants	0.2 Inches Per Occupant @ 2 Occupants =	2 Door(s) @ 32 inches =
	<b>Total Occupant Load For Area (B)=</b>	<b>2 Occupants</b>	<b>Total Inches Req'd For Area (B)=</b>	<b>64 Inches</b>
	<b>Egress Width Required Per IBC 1005.3.2:</b>	<b>0.4 Inches</b>	<b>Total Inches Req'd For Area (B)=</b>	<b>64 Inches Provided</b>
	<b>Egress Width Provided:</b>			
	<b>Total Inches Provided For Area (B)=</b>			
<b>Area C</b>	New Lobby (Mercantile) = 97 SF @ 30 SF GROSS =	4 Occupants	0.2 Inches Per Occupant @ 4 Occupants =	1 Door(s) @ 32 inches =
	<b>Total Occupant Load For Area (C)=</b>	<b>4 Occupants</b>	<b>Total Inches Req'd For Area (C)=</b>	<b>32 Inches</b>
	<b>Egress Width Required Per IBC 1005.3.2:</b>	<b>0.8 Inches</b>	<b>Total Inches Req'd For Area (C)=</b>	<b>32 Inches Provided</b>
	<b>Egress Width Provided:</b>			
	<b>Total Inches Provided For Area (C)=</b>			
<b>Area D</b>	New Lobby (Business) = 268 SF @ 100 SF GROSS =	3 Occupants	0.2 Inches Per Occupant @ 3 Occupants =	1 Door(s) @ 32 inches =
	<b>Total Occupant Load For Area (D)=</b>	<b>3 Occupants</b>	<b>Total Inches Req'd For Area (D)=</b>	<b>32 Inches</b>
	<b>Egress Width Required Per IBC 1005.3.2:</b>	<b>0.6 Inches</b>	<b>Total Inches Req'd For Area (D)=</b>	<b>32 Inches Provided</b>
	<b>Egress Width Provided:</b>			
	<b>Total Inches Provided For Area (D)=</b>			
<b>Area E</b>	New Service Bays = 3,240 SF @ 500 SF GROSS =	7 Occupants	0.2 Inches Per Occupant @ 7 Occupants =	2 Door(s) @ 32 inches =
	<b>Total Occupant Load For Area (E)=</b>	<b>7 Occupants</b>	<b>Total Inches Req'd For Area (E)=</b>	<b>64 Inches</b>
	<b>Egress Width Required Per IBC 1005.3.2:</b>	<b>1.4 Inches</b>	<b>Total Inches Req'd For Area (E)=</b>	<b>64 Inches Provided</b>
	<b>Egress Width Provided:</b>			
	<b>Total Inches Provided For Area (E)=</b>			
<b>Area F</b>	New Mezzanine = 333 SF @ 500 SF GROSS =	1 Occupants	0.2 Inches Per Occupant @ 1 Occupants =	1 Door(s) @ 32 inches =
	<b>Total Occupant Load For Area (F)=</b>	<b>1 Occupants</b>	<b>Total Inches Req'd For Area (F)=</b>	<b>32 Inches</b>
	<b>Egress Width Required Per IBC 1005.3.2:</b>	<b>0.2 Inches</b>	<b>Total Inches Req'd For Area (F)=</b>	<b>32 Inches Provided</b>
	<b>Egress Width Provided:</b>			
	<b>Total Inches Provided For Area (F)=</b>			

**Egress Path**

Exit Path	Exit Travel Distance
A	64' - 0"
B	59' - 0"
C	12' - 0"
D	17' - 0"
E	83' - 0"
F	85' - 0"

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



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

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

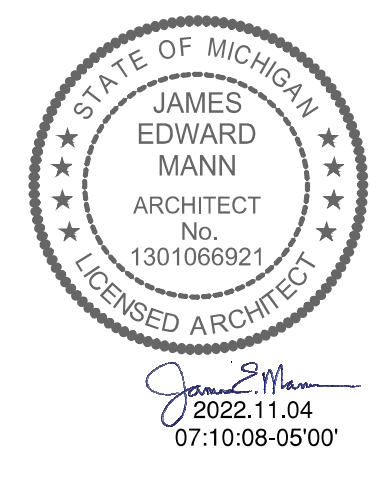
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**REMODEL**  
 STORE NUMBER: 338  
 18720 PARTELLO RD  
 MARSHALL, MI 49068  
 JOB NUMBER: 03-21-20336

ISSUE BLOCK			
3	09/20/22	CCD 1	
4	11/04/22	CCD 2	

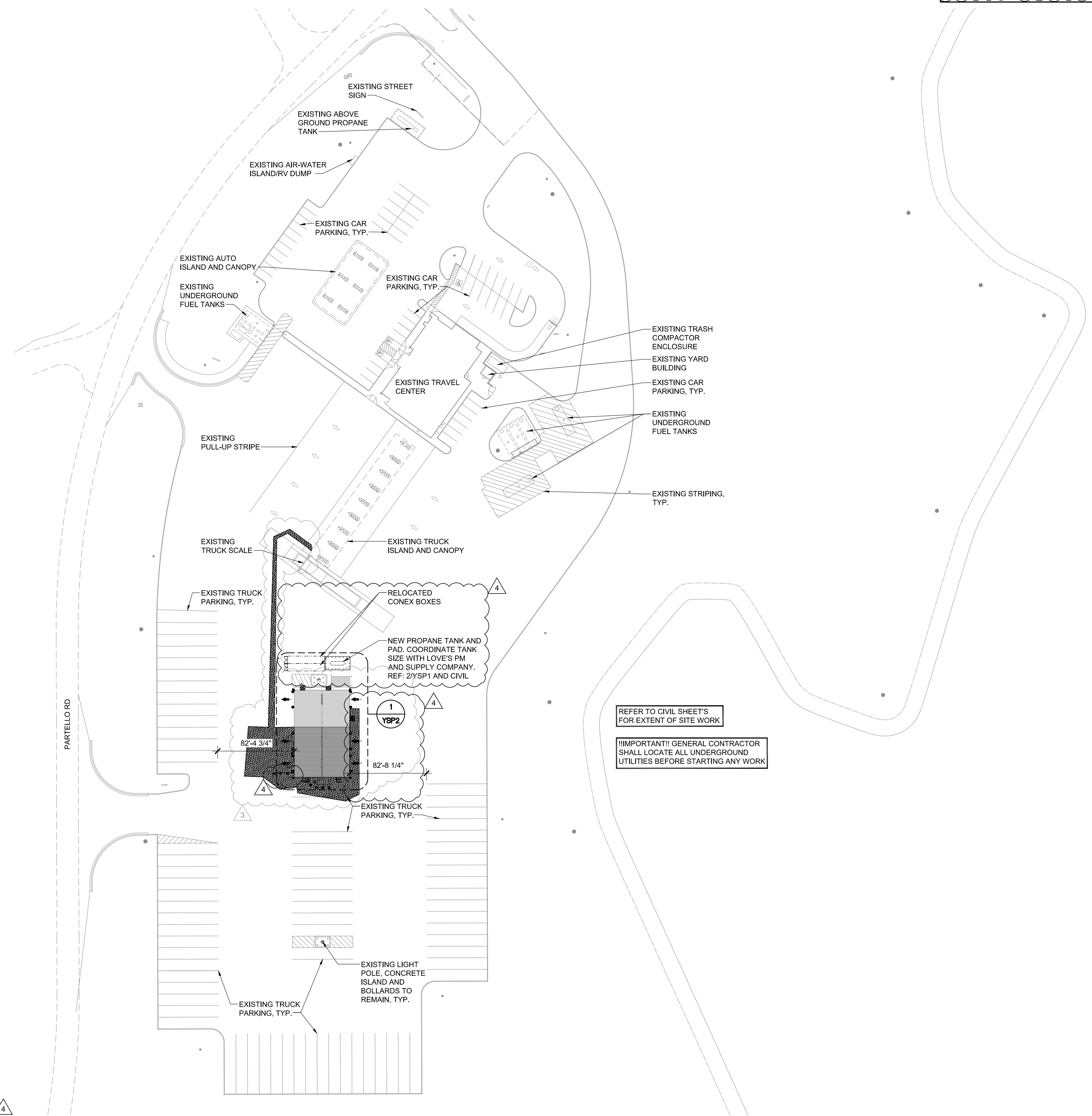
CHECKED BY: RAF  
 DRAWN BY: JDH  
 DOCUMENT DATE: 05/05/21



OVERALL  
 SITE PLAN  
 SHEET:  
**YSP1**

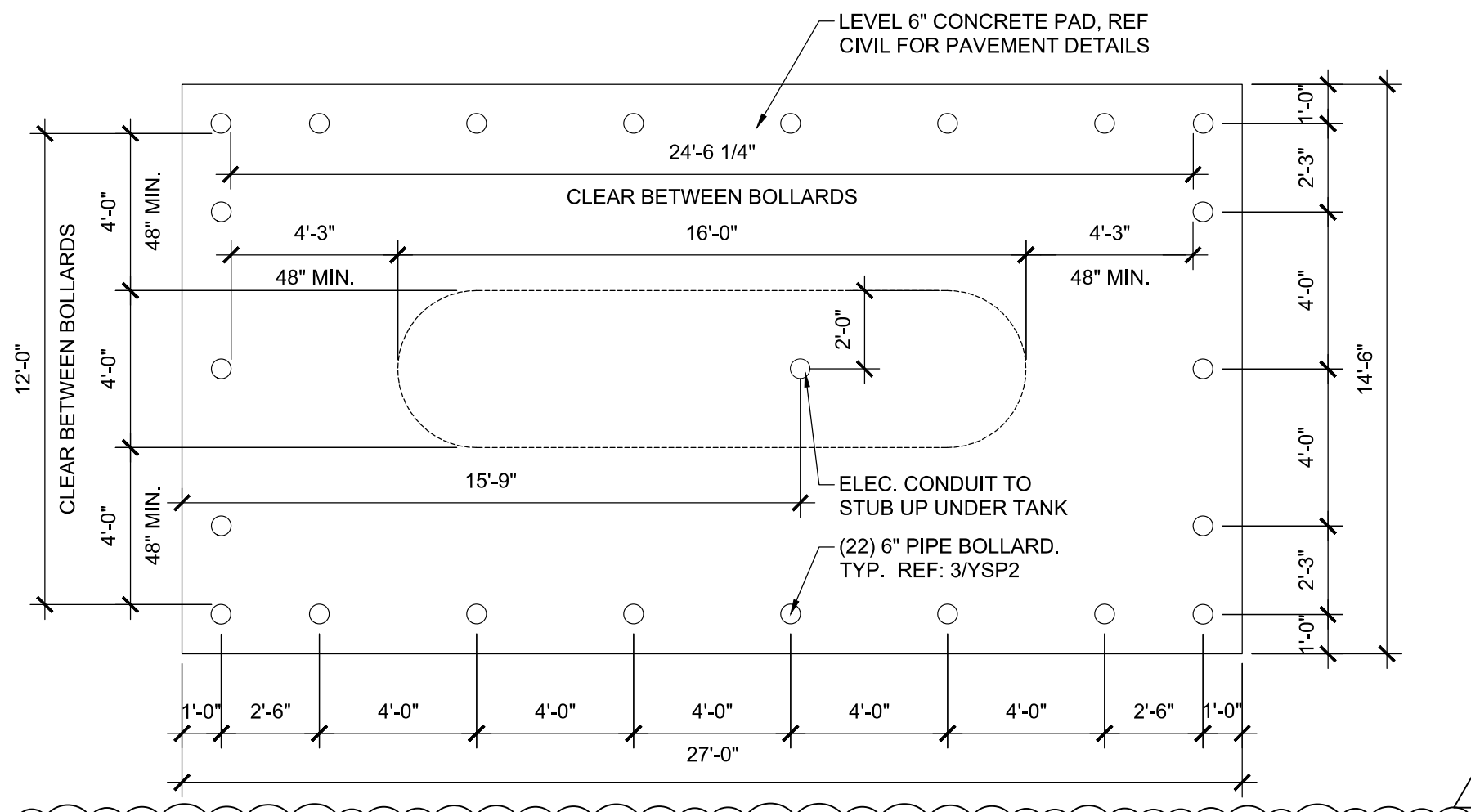
**PLAN LEGEND**

	EXISTING TO REMAIN
	NEW
	NEW CONCRETE
	RELOCATED



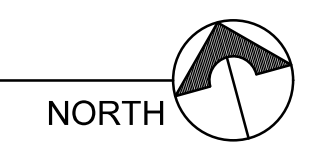
REFER TO CIVIL SHEET'S FOR EXTENT OF SITE WORK

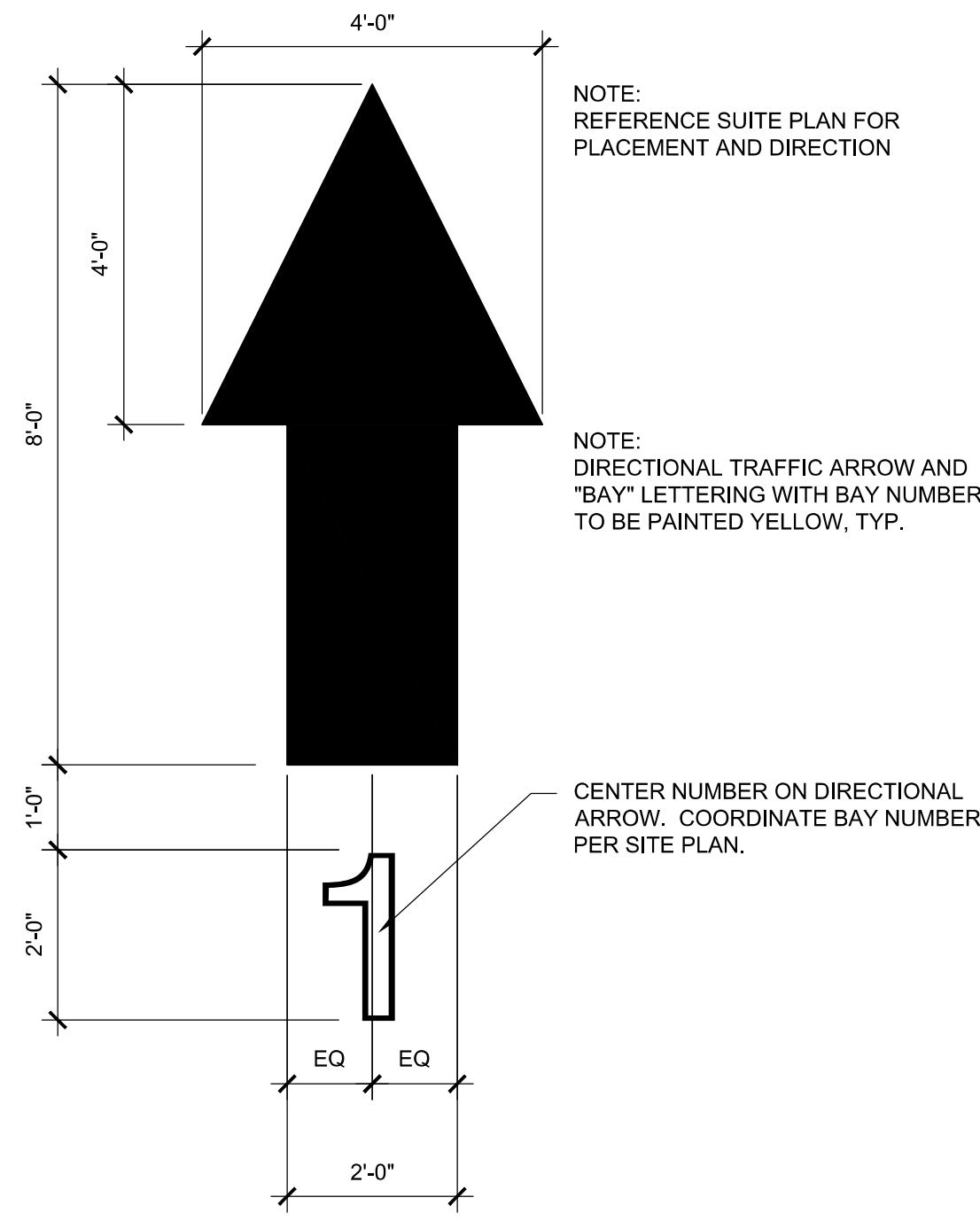
IMPORTANT! GENERAL CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES BEFORE STARTING ANY WORK



**2 LP GAS TANK PAD**  
 SCALE: 1/4" = 1'-0"

**1 SITE PLAN**  
 SCALE: 1" = 60'-0"



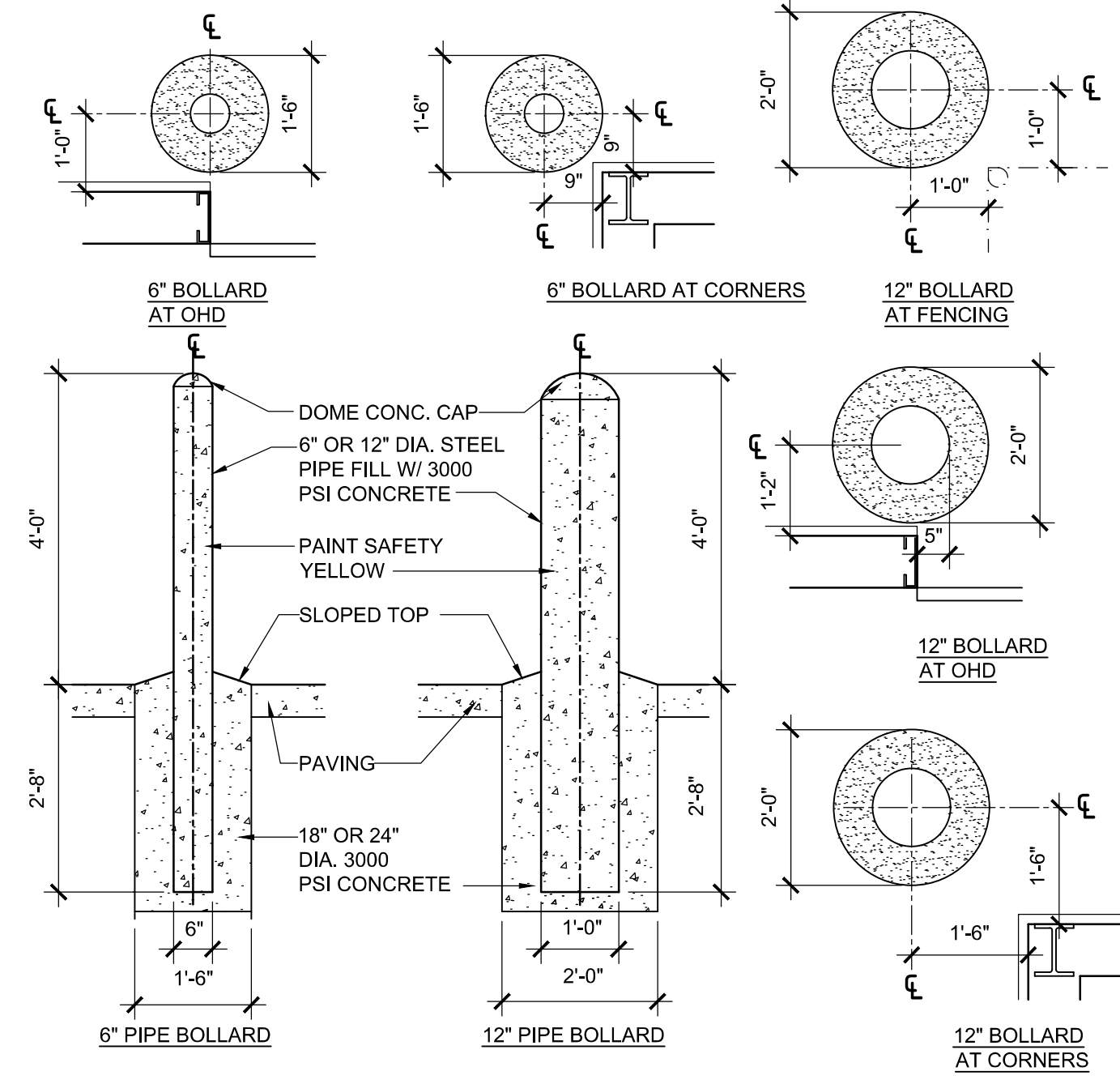


NOTE:  
REFERENCE SUITE PLAN FOR  
PLACEMENT AND DIRECTION

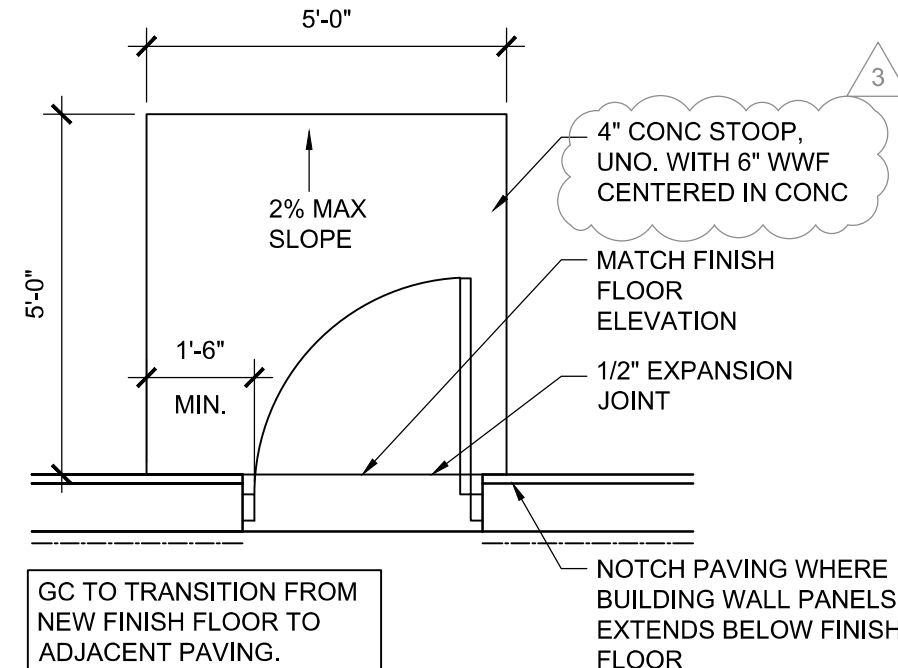
NOTE:  
DIRECTIONAL TRAFFIC ARROW AND  
"BAY" LETTERING WITH BAY NUMBER  
TO BE PAINTED YELLOW, TYP.

CENTER NUMBER ON DIRECTIONAL  
ARROW. COORDINATE BAY NUMBER  
PER SITE PLAN.

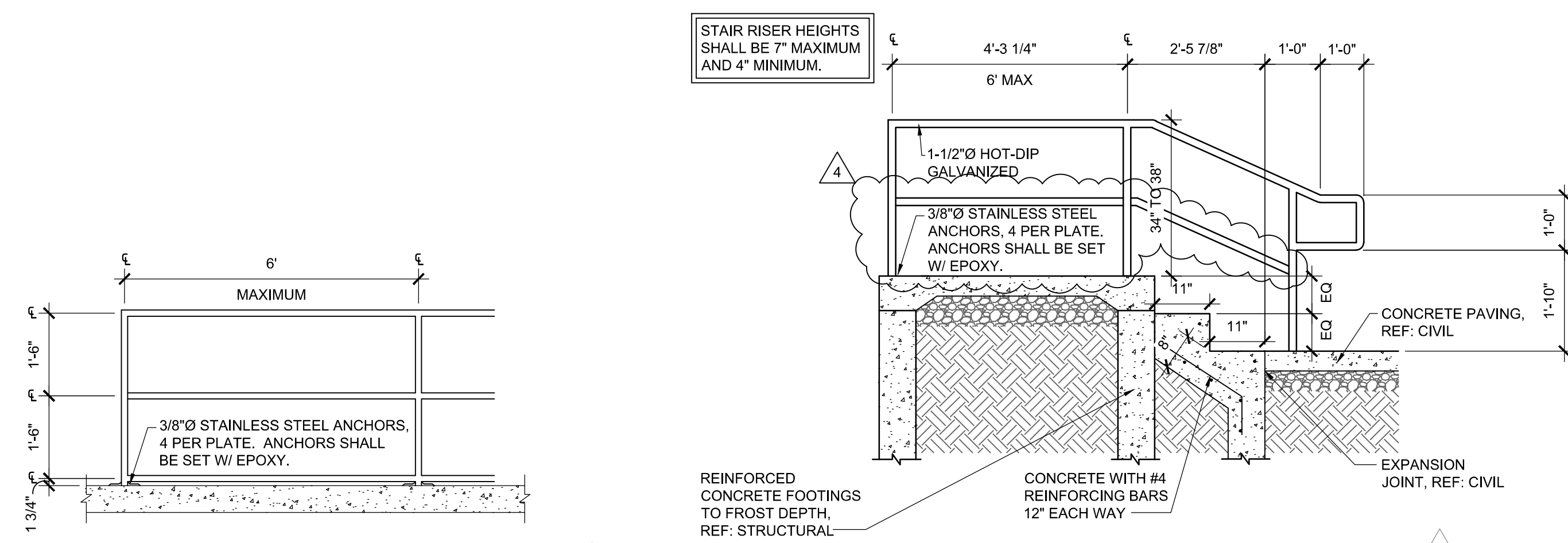
**4 PAINTED BAY ARROW**  
SCALE: 1/2" = 1'-0"



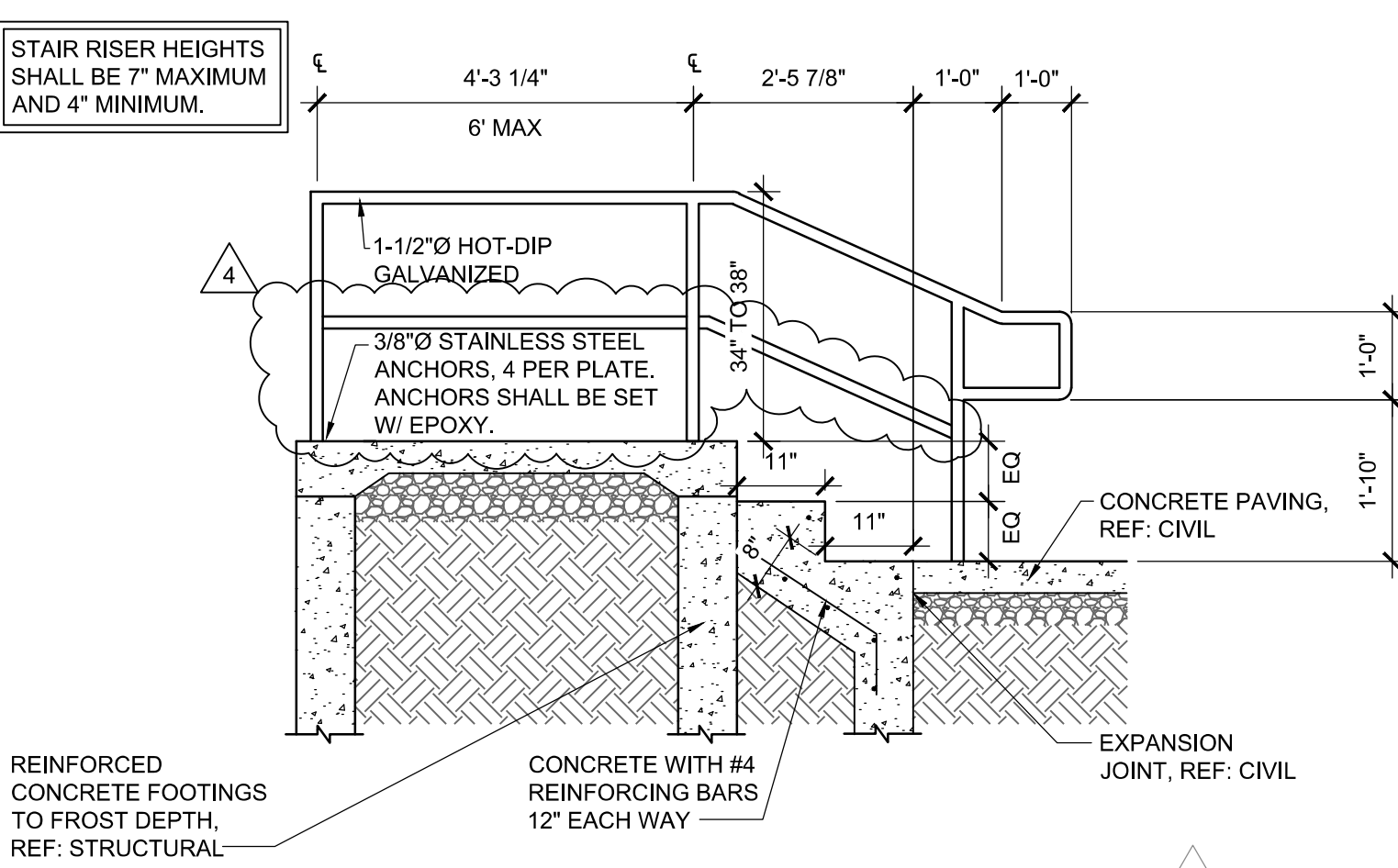
**3 BOLLARD DETAILS**  
SCALE: 1/2" = 1'-0"



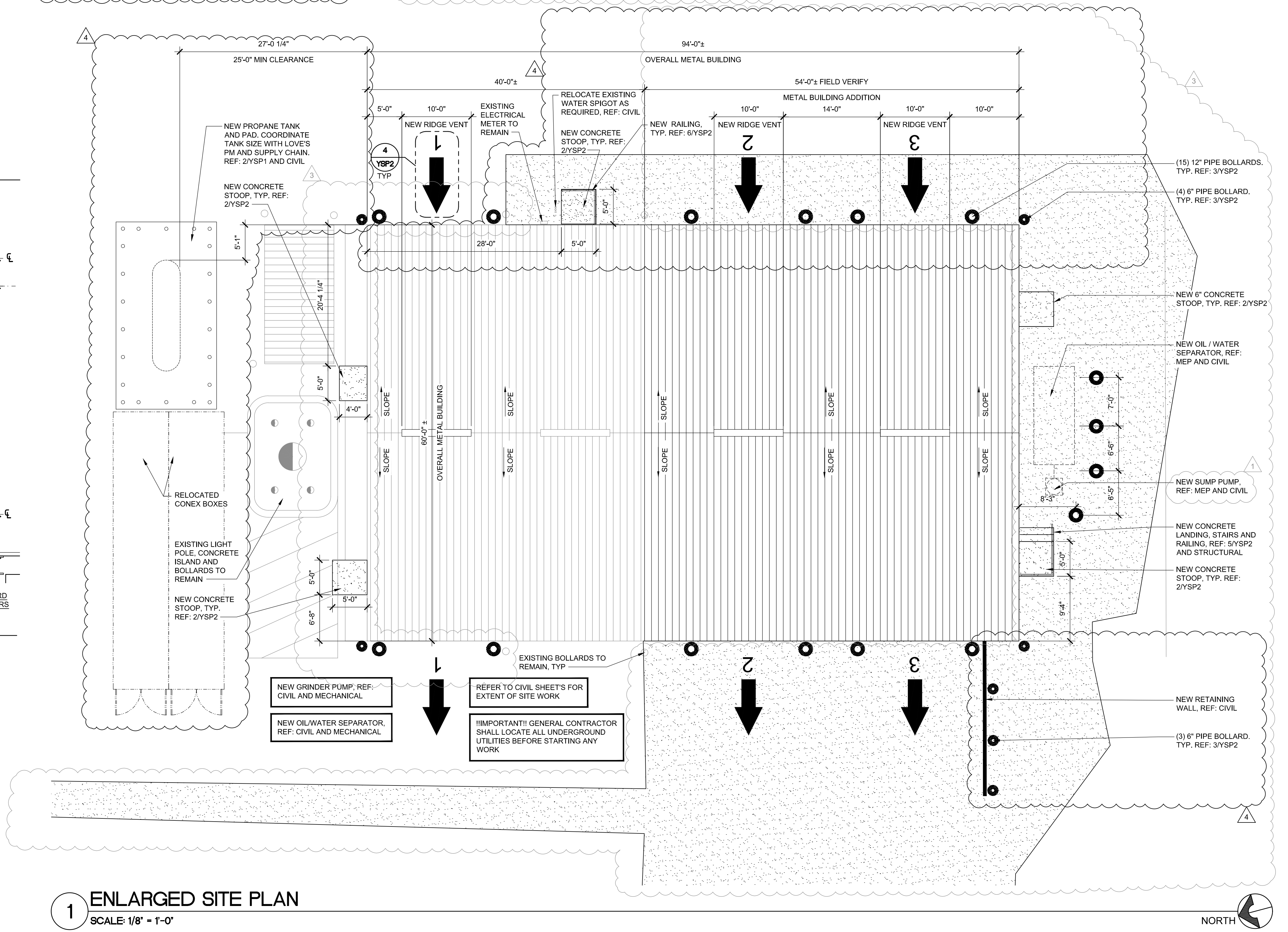
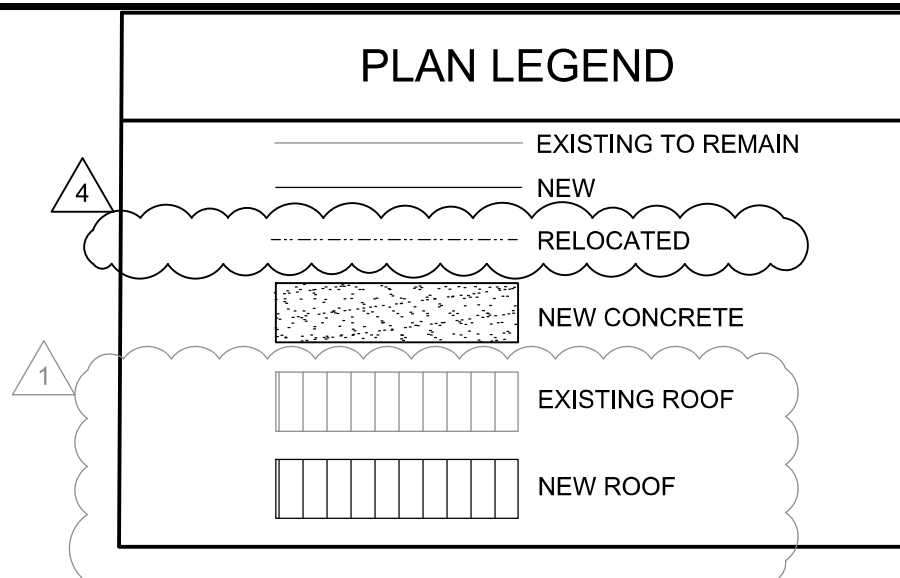
**2 STOOP DETAIL**  
SCALE: 3/8" = 1'-0"



**6 TYPICAL HANDRAIL DETAIL**  
SCALE: 1/2" = 1'-0"



**5 CONCRETE STAIRS WITH HANDRAIL**  
SCALE: 1/2" = 1'-0"



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

**HFA**  
Creative Solutions  
Meaningful Places

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1705 S. Walton Blvd., Suite 3  
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t 479.273.7780  
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www.hfa-ac.com

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**REMODEL**

STORE NUMBER: 338  
18720 PARTELO RD  
MARSHALL, MI 49068

JOB NUMBER: 03-21-20336

ISSUE BLOCK	DATE	DESCRIPTION
1	07/09/21	ADD 1
3	09/20/22	CCD 1
4	11/04/22	CCD 2

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

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

*James Mann*  
2022.11.04  
07.10.14-05/07

ENLARGED SITE  
PLAN & DETAILS

SHEET:  
**YSP2**

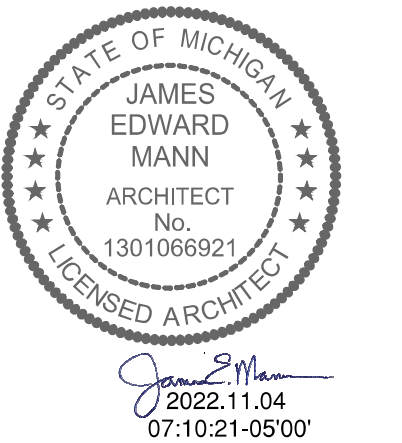
Nov 03, 2023, 11:02am - User: jason.haney  
E:\3036\21-20336-Lines - Marshall, MI\33606-CD\0000 Architectural\111 YSP2 ENLARGED SITE PLAN AND DETAILS.rvt

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**REMODEL**  
STORE NUMBER: 338  
18720 PARTELLO RD  
MARSHALL, MI 49068  
JOB NUMBER: 03-21-200396

ISSUE BLOCK			
3	09/20/22	CCD 1	
4	11/04/22	CCD 2	

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



DEMOLITION PLAN

SHEET: **YD1**

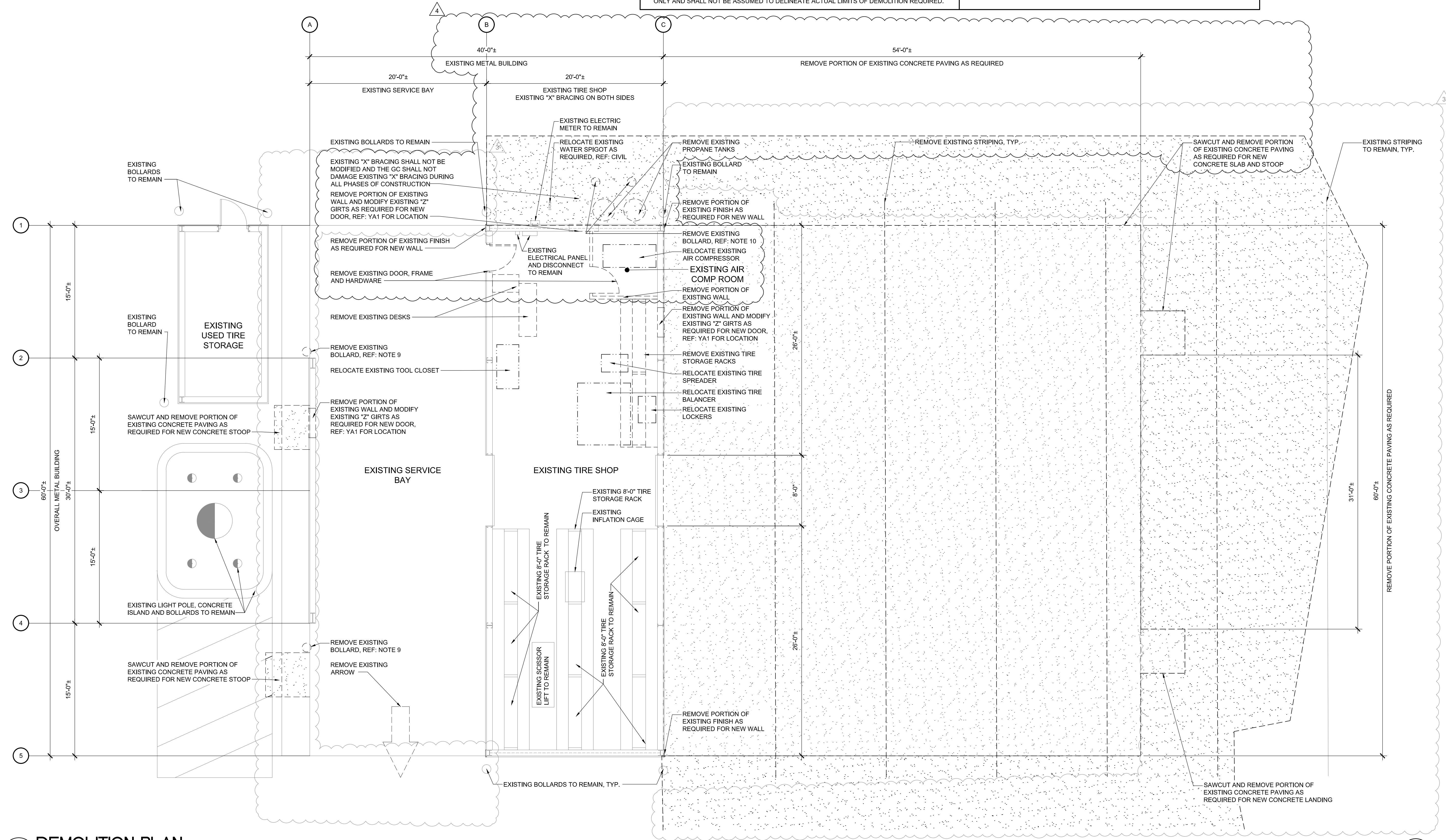
**DEMOLITION NOTES**

1. ALL DEMOLITION SHALL BE CARRIED OUT IN A SAFE MANNER, AND IN ACCORDANCE WITH OSHA REGULATIONS.
2. 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.
3. 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.
4. PRIOR TO EXCAVATION FOR FOUNDATIONS ADJACENT TO THE EXISTING STRUCTURE, PROVIDE ADEQUATE SUPPORT FOR THE SUB-BASE TO PREVENT UNDERMINING OF THE EXISTING FOUNDATION.
5. 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.

6. 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.
7. PROTECT EXISTING PAVING AND STRUCTURES TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
8. 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.
9. SAWCUT BOLLARD FLUSH WITH EXISTING PAVEMENT.
10. REMOVE BOLLARD AND ITS FOOTING IN ITS ENTIRETY. BACK FILL AND COMPACT TO MATCH EXISTING PAVING.

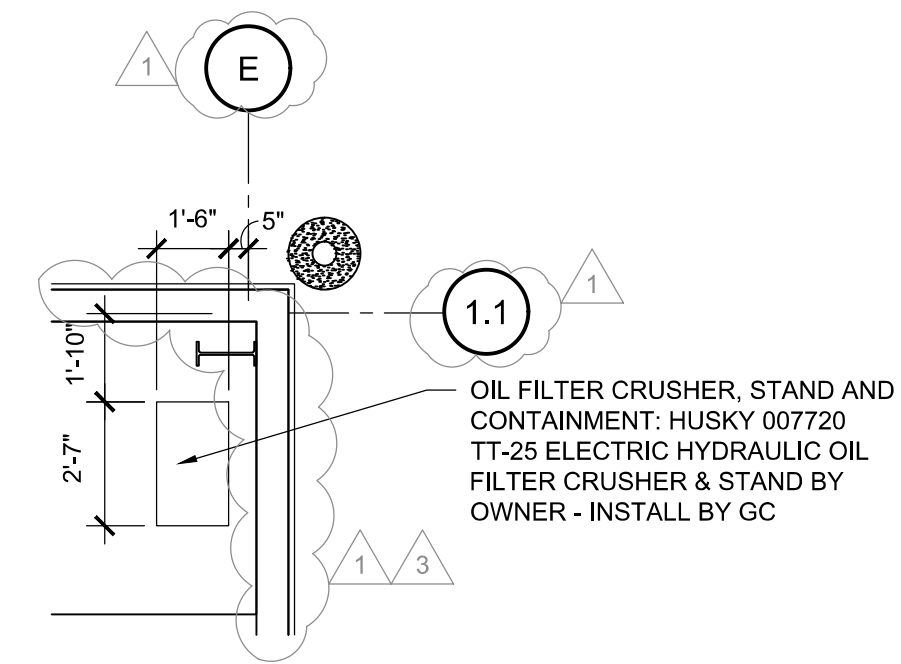
**PLAN LEGEND**

- EXISTING TO REMAIN
- - - DEMOLITION
- - - RELOCATE
- [Pattern] PAVING DEMOLITION



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



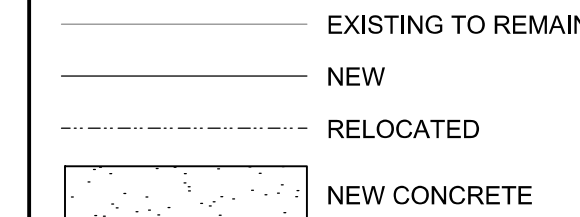


**2 ENLARGED PLAN AT FILTER CRUSHER**  
SCALE: 1/4" = 1'-0"

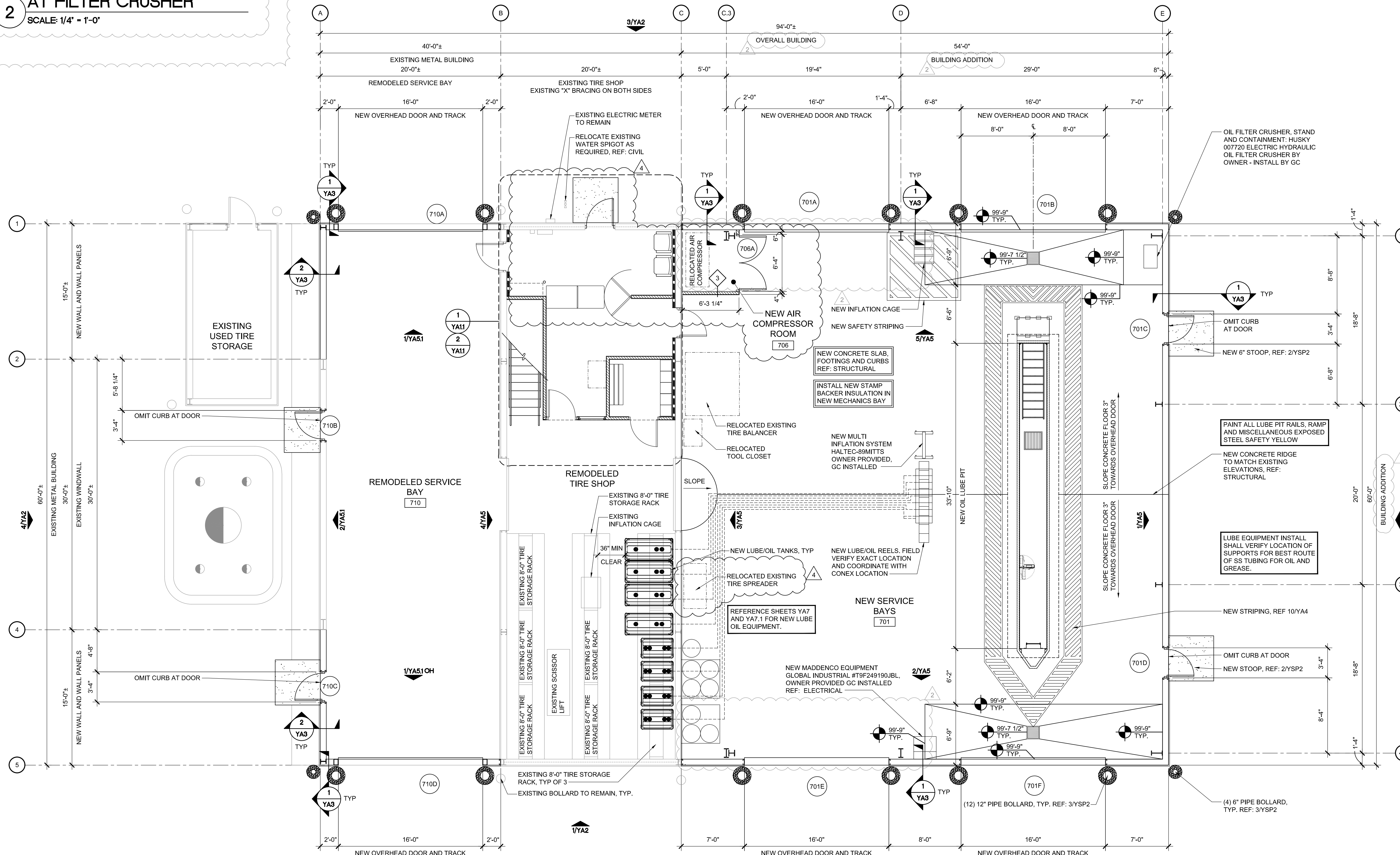
**NOTES:**

- METAL BUILDING SUPPLIER TO PROVIDE A CONTINUOUS WALL GIRT LOCATED 54" A.F.F. AT ALL WALLS.
- METAL BUILDING SUPPLIER TO PROVIDE ALL PRE-FINISHED METAL TRIM, COLOR TO MATCH EXISTING.
- ALL OUTSIDE METAL WALL PANELS TO MATCH EXISTING METAL WALL PANELS. REF: 1/YA3
- METAL BUILDING SUPPLIER TO PROVIDE R-13 VINYL COVERED BATT INSULATION FOR ALL EXTERIOR WALLS, PROVIDE R-13 LINER SYSTEM AT ROOF.
- GC SHALL PAINT ALL TRIM, HOLLOW METAL DOORS ARE PREFINISHED AND PROVIDED BY OWNER. REF: 3/YSP2. BOLLARDS TO BE SAFETY YELLOW.
- METAL BUILDING SUPPLIER TO PROVIDE VERTICAL RED STEEL FRAMING ALONG ALL DOOR JAMBS & HORIZONTAL RED STEEL FRAMING ALONG ALL DOOR HEADS.
- PRE-ENGINEERED METAL BUILDING PROVIDED BY OWNER THROUGH: "VARCO PRUDEN BUILDINGS"  
CONTACT: RICH LEWIS  
1-901-748-9204  
RLEWIS@VP.COM
- ITEMS PROVIDED BY OWNER FOR GC TO INSTALL: METAL BUILDING FRAMING, WALL-ROOF PANELS, RIDGE VENTS, METAL TRIM, VINYL COVERED BATT INSULATION, OVERHEAD DOORS & HARDWARE. GC TO PROVIDE HOLLOW METAL DOORS.
- 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.
- PROVIDE CONCRETE SLOPED @ 2% MAX FOR OVERHEAD DOOR. EXTEND BEYOND TO MEET CONCRETE SLAB.
- FOR PARTITION TYPES REF: 8/YA6.
- CONCRETE SLAB FINISH: ALL AREAS TO RECEIVE SMOOTH TROWEL FINISH SEALED WITH 1 COAT OF SEALER RETRO PLATE/ RETRO GUARD AND 1 COAT HARDENER ASHFORD FORMULA.

**PLAN LEGEND**



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



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

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18720 PARTELLO RD  
MARSHALL, MI 49068  
JOB NUMBER: 09-21-200336

**ISSUE BLOCK**

1	07/09/21	ADD 1
2	04/01/22	ADD 2
3	09/20/22	CCD 1
4	11/04/22	CCD 2

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

STATE OF MICHIGAN  
JAMES EDWARD MANN  
ARCHITECT  
No. 1301066921  
LICENSED ARCHITECT  
2022.11.04  
07.10.27-05'00"

**OVERALL FLOOR PLAN**

SHEET: **YA1**

New 03.2023.11.03.dwg - User: jacob.baker  
E:\2023\23-20336-Lines-Marshall\_MI\33805-CD\0000-Architectural\130-YA1-OVERALL-FLOOR-PLAN.dwg

**STIPULATION FOR REUSE**

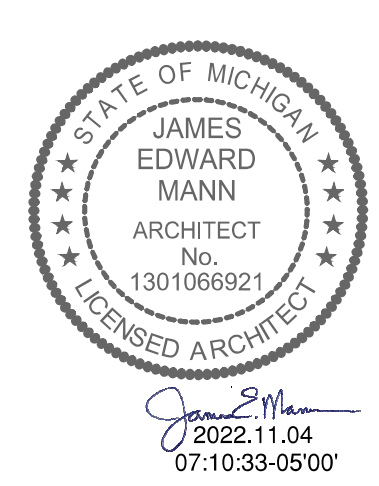
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FINISH LEGEND,  
ROOM FINISH  
SCHEDULE, &  
ENLARGED PLAN

SHEET:  
**YA1.1**

MISCELLANEOUS EQUIPMENT						
ITEM	DESCRIPTION	QTY	MODEL	SUPPLIED BY	INSTALLED BY	REMARKS
M-62	LOCKERS	5	BOX LOCKERS 5 TIER, 3 WIDE, GRAY	OWNER	G.C.	
M-63	BENCH	1	GRAINGER 72" BENCH BLUE	OWNER	G.C.	

ROOM FINISH SCHEDULE:  
ADDED ROOM 706 TO THE SCHEDULE.

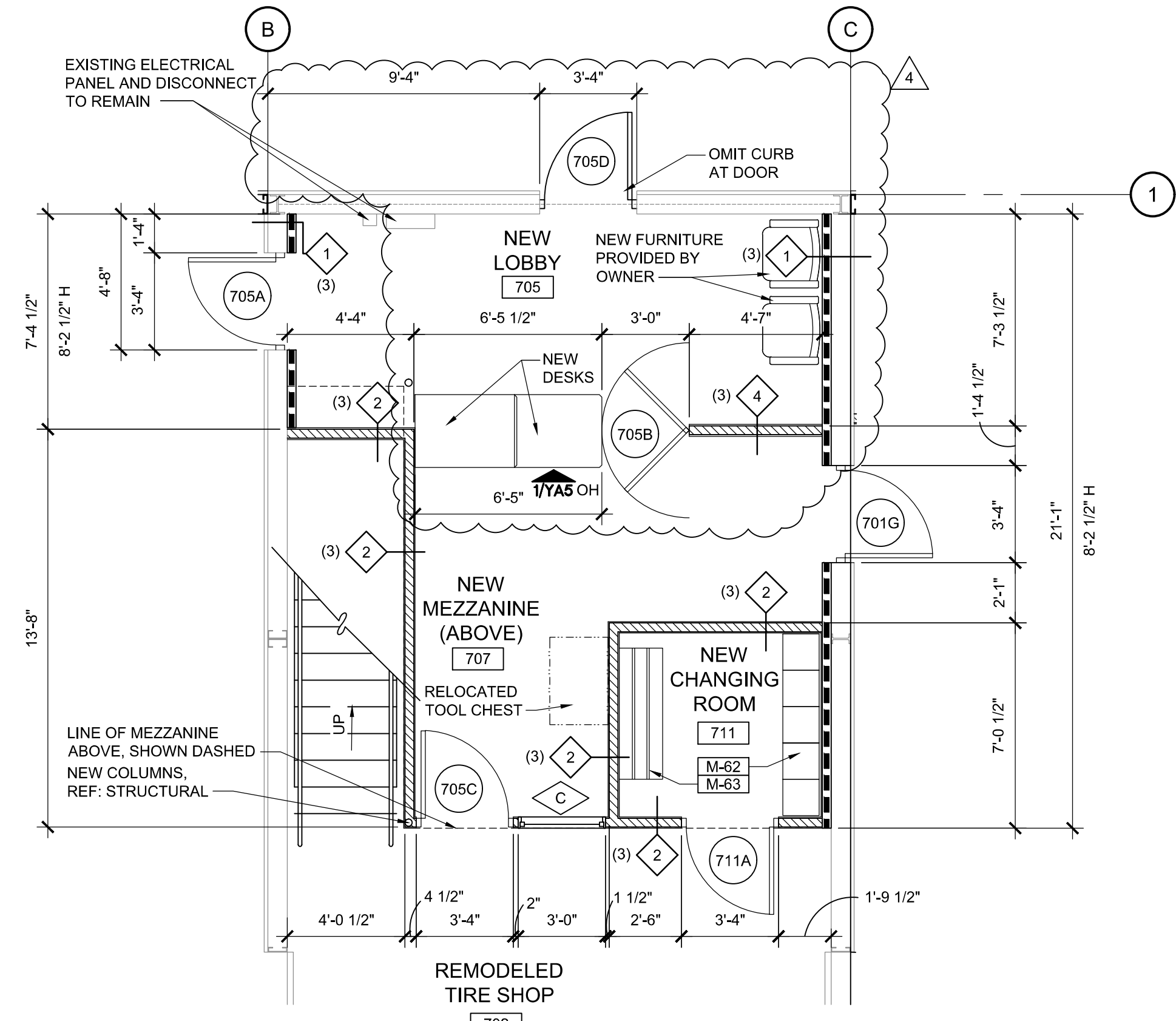
ROOM FINISH SCHEDULE:  
REVISED SUBSTRATES 3 AND FINISHES 3 FOR ROOM 705.  
ADDED ROOMS 702 AND 711 TO THE SCHEDULE.

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
702	REMODELED TIRE SHOP	EXPOSED CONCRETE	---	3/4" PLYWOOD	ETR	ETR	ETR	PT-55	---	---	---	EXPOSED STRUCT.	REF: ELEVATIONS
705	NEW LOBBY	ETR	---	ETR	3/4" PLYWOOD	3/4" PLYWOOD	3/4" PLYWOOD	PT-55	PT-55	PT-55	PT-55	EXPOSED STRUCT.	---
706	NEW AIR COMPRESSOR ROOM	EXPOSED CONCRETE	---	3/4" PLYWOOD	3/4" PLYWOOD	3/4" PLYWOOD	3/4" PLYWOOD	PT-55	PT-55	PT-55	PT-55	3/4" PLYWOOD (PT-55)	---
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
711	NEW CHANGING ROOM	ETR	---	3/4" PLYWOOD	3/4" PLYWOOD	3/4" PLYWOOD	3/4" PLYWOOD	PT-55	PT-55	PT-55	PT-55	EXPOSED STRUCT.	---

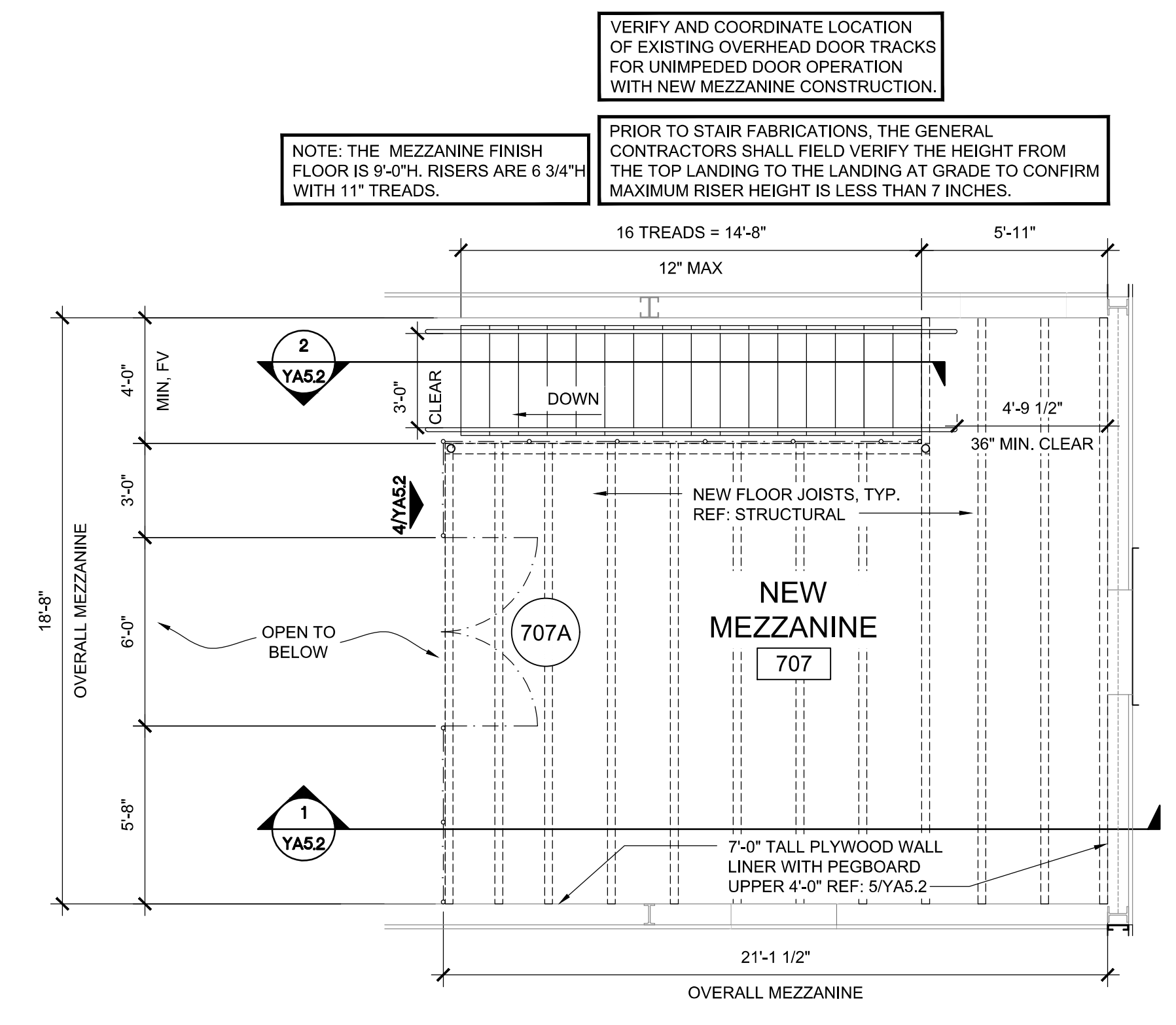
MATERIAL LEGEND - INTERIOR			
MARK	DESCRIPTION	MODEL	COMMENTS
BS-1	RUBBER BASE	"ROPPE" BLACK	
LM-1	LAMINATE	WILSONART "BEIGEWOOD" 7850-60 - MATTE FINISH	WOOD GRAIN TO RUN HORIZONTAL; PROVIDED BY MILLWORK CONTRACTOR IN INSTALLED BY GC
SS-9	SOLID SURFACE	"CORIAN" DOVE	PROVIDED BY MILLWORK CONTRACTOR AND INSTALLED BY GENERAL CONTRACTOR.
PT-53	PAINT	"SHERWIN WILLIAMS" SW 7038 TONY TAUPE - SATIN	
PT-55	PAINT	"SHERWIN WILLIAMS" SW 6990 CAVIAR - SATIN	PLYWOOD WALLS

**SHEET NOTE:**

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



**2 LOBBY PLAN**  
SCALE: 1/4" = 1'-0"



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

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**REMODEL**

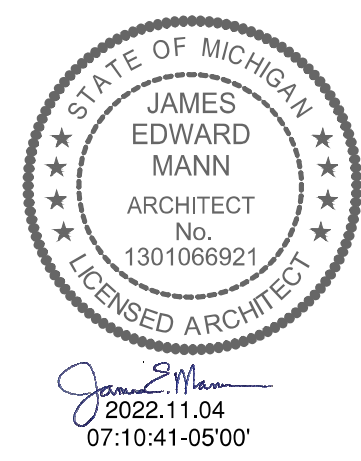
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MARSHALL, MI 49868

JOB NUMBER: 03-21-20336

ISSUE BLOCK

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3	09/20/22	CCD 1
4	11/04/22	CCD 2

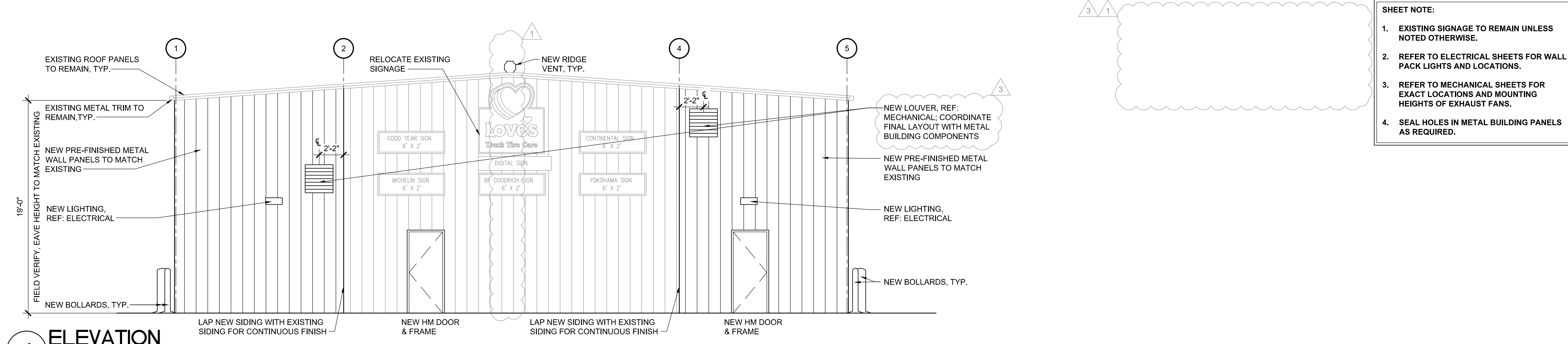
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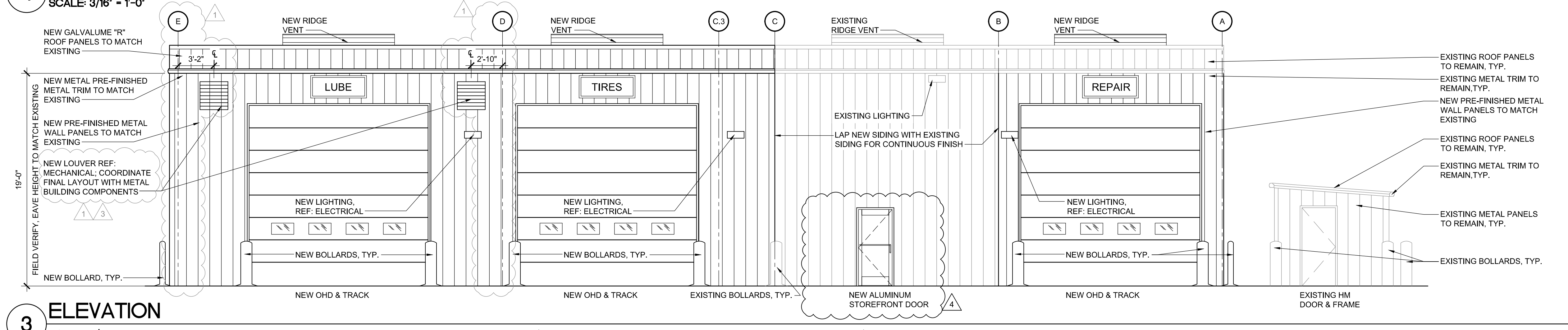
EXTERIOR ELEVATIONS

SHEET: YA2

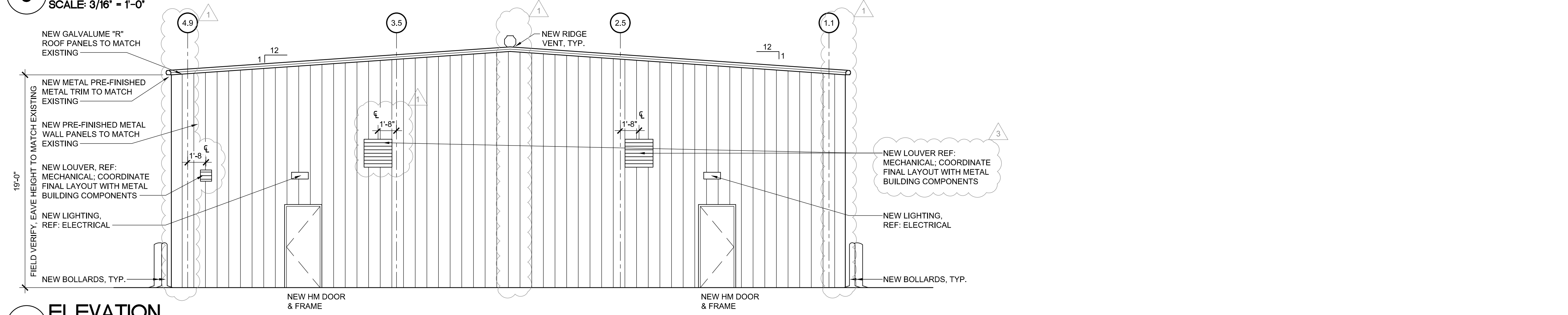
- SHEET NOTE:**
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  - REFER TO MECHANICAL SHEETS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF EXHAUST FANS.
  - SEAL HOLES IN METAL BUILDING PANELS AS REQUIRED.



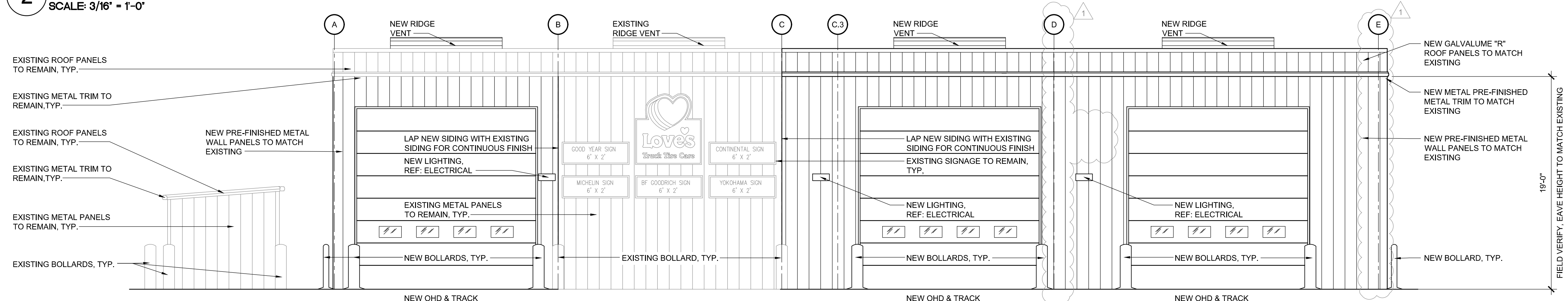
**4 ELEVATION**  
SCALE: 3/16" = 1'-0"



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



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



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



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

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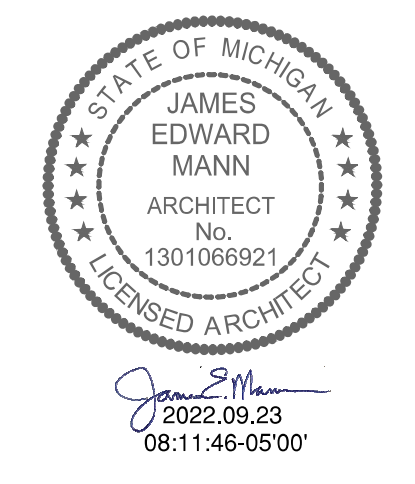
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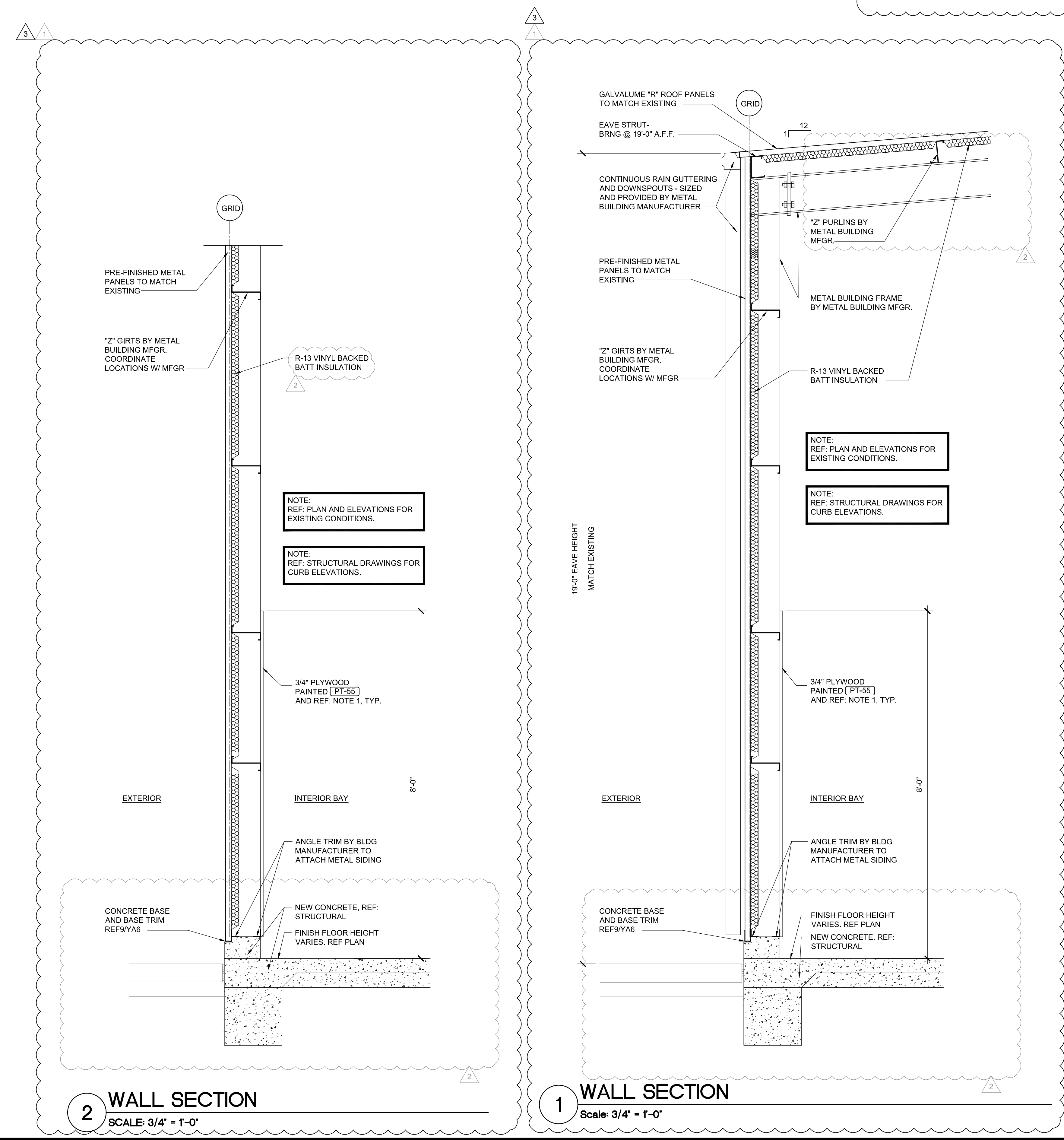
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3	09/20/22	CCD 1

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



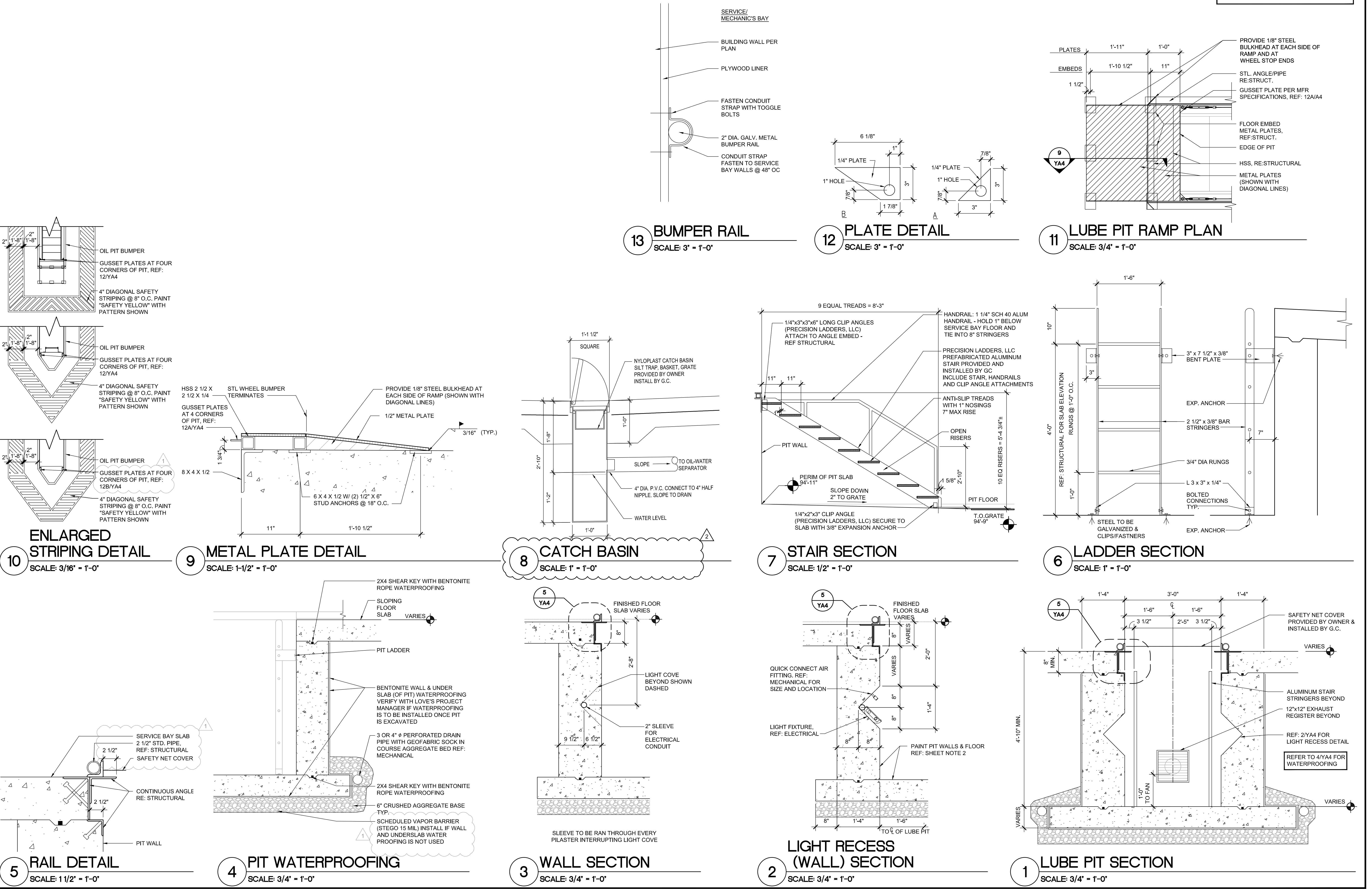
**WALL SECTIONS & DETAILS**

SHEET: **YA3**



Sep21.2022-9:51pm - User: Joseph Haney  
 E:\30162-1-20336 - Eaves - Marshall, MI\30162-CD\0000 Architectural\150 143 WALL SECTIONS & DETAILS.dwg

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



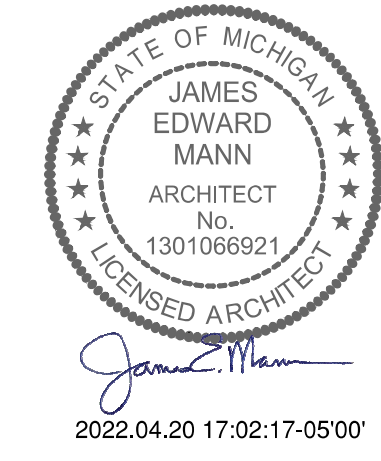
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1	07/09/21	ADD 1
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DOCUMENT DATE: 05/05/21



**LUBE PIT SECTIONS & DETAILS**

SHEET: YA4

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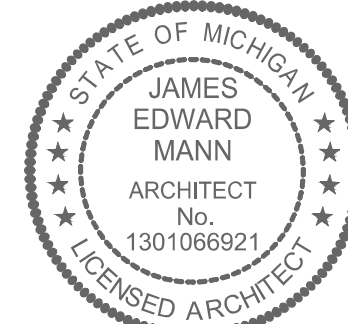
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CHECKED BY: RAF

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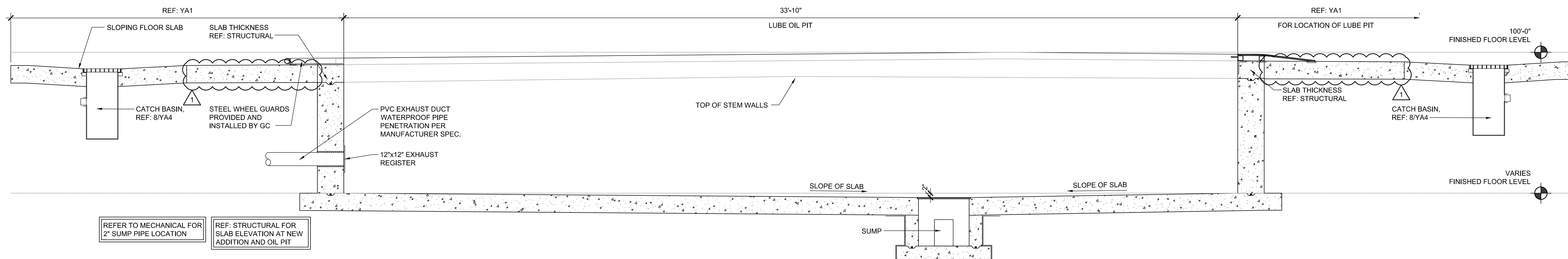
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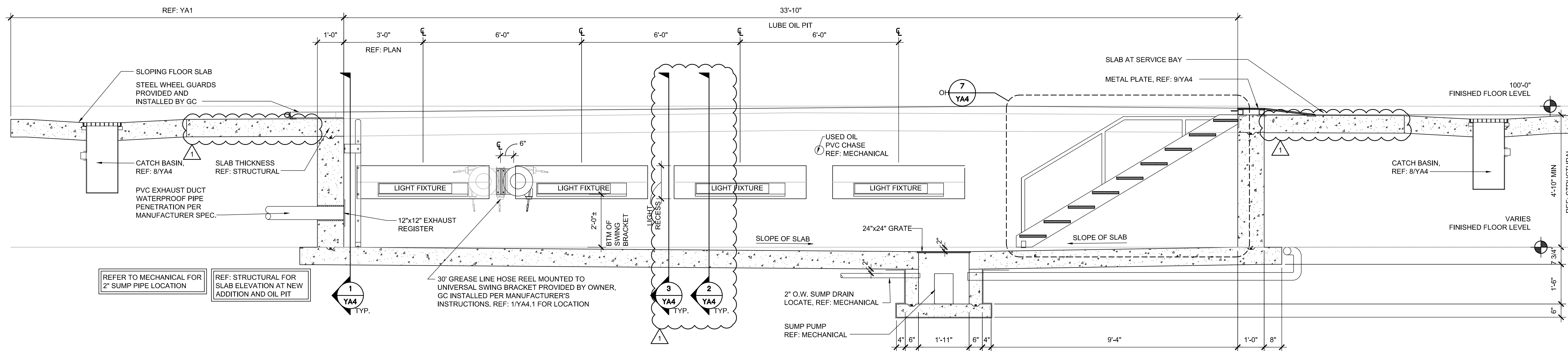
2021.08.12 16:40:03-0500

**LUBE PIT PLAN & SECTIONS**

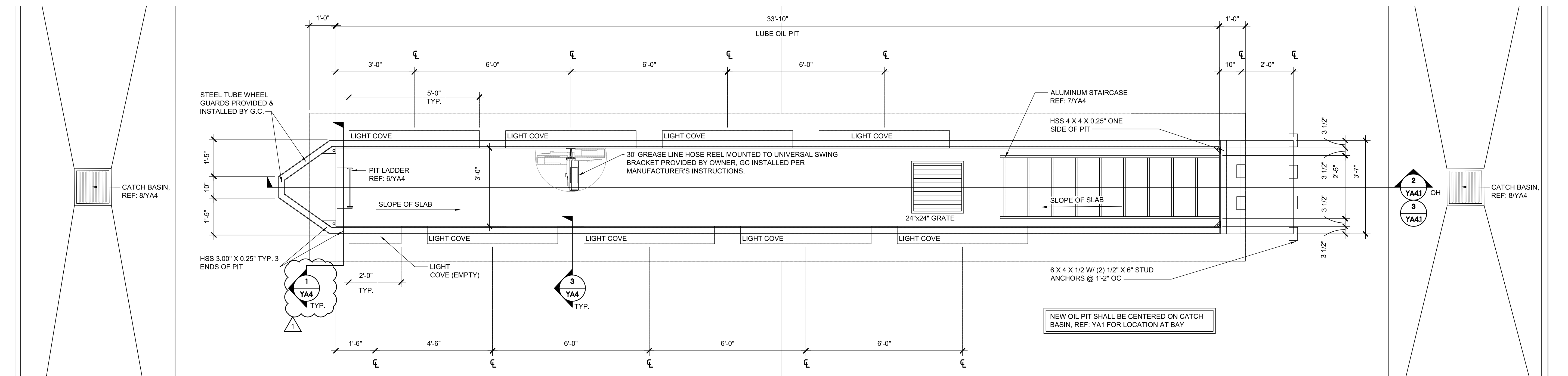
SHEET: **YA4.1**



**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"

- 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.

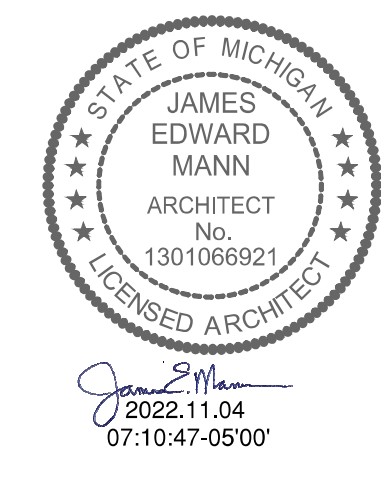
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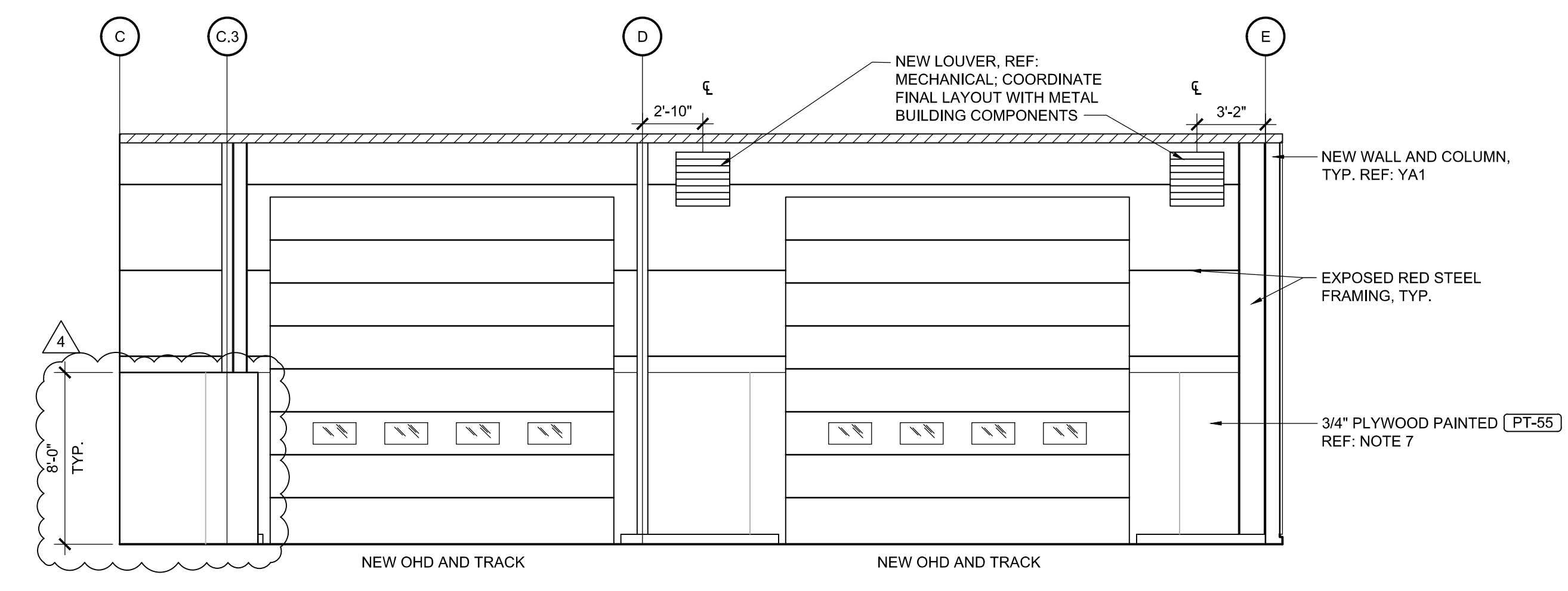
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3	09/20/22	CCD 1
4	11/04/22	CCD 2

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

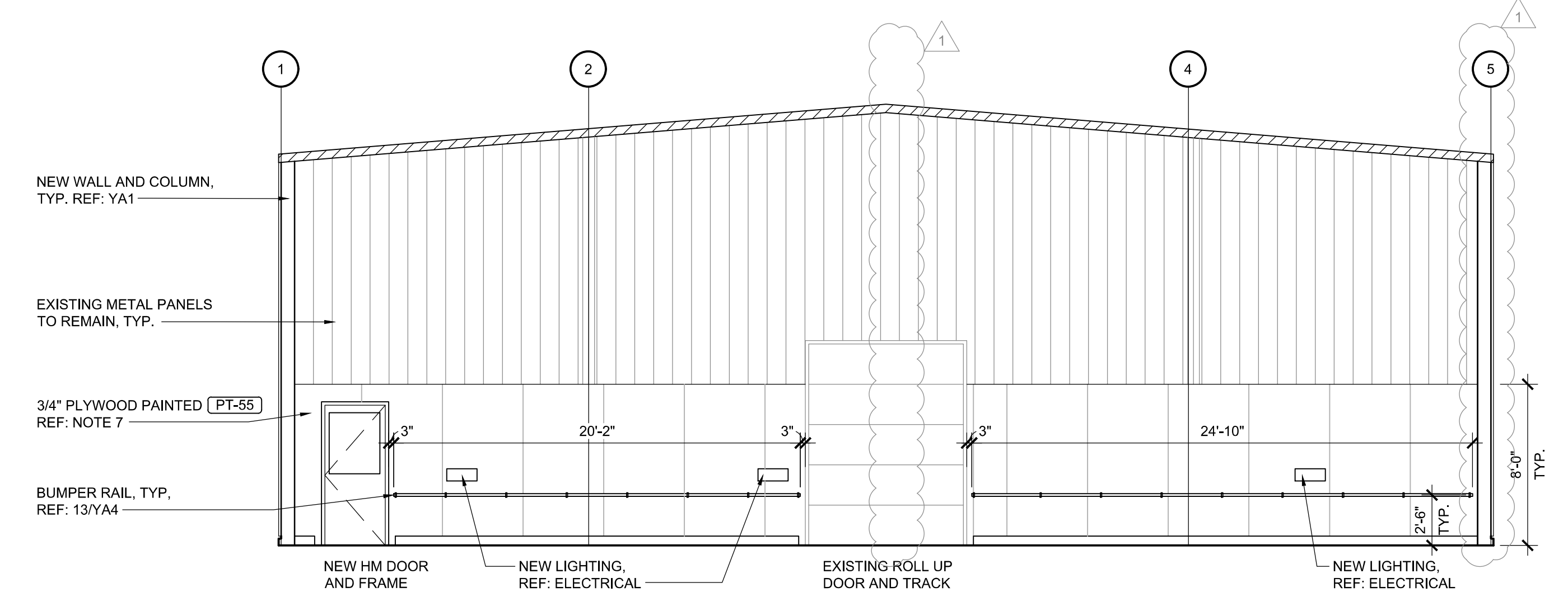


**INTERIOR ELEVATIONS**

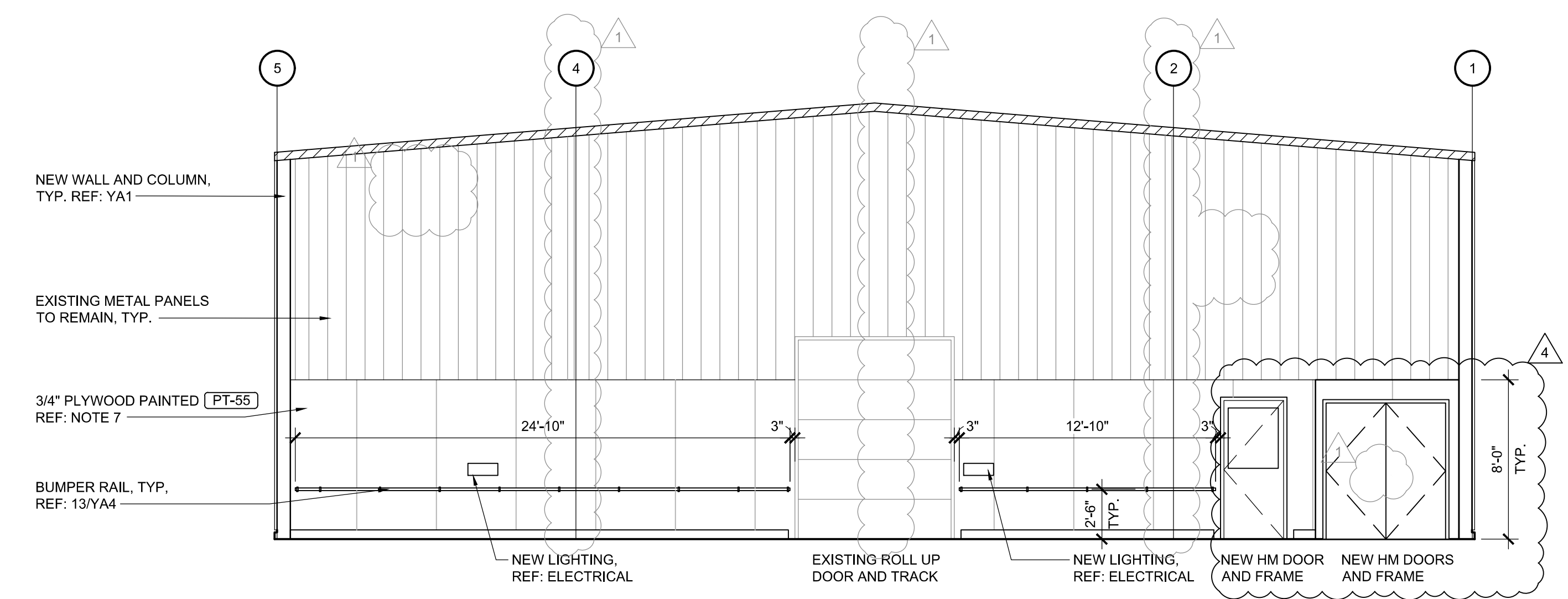
SHEET: **YA5**



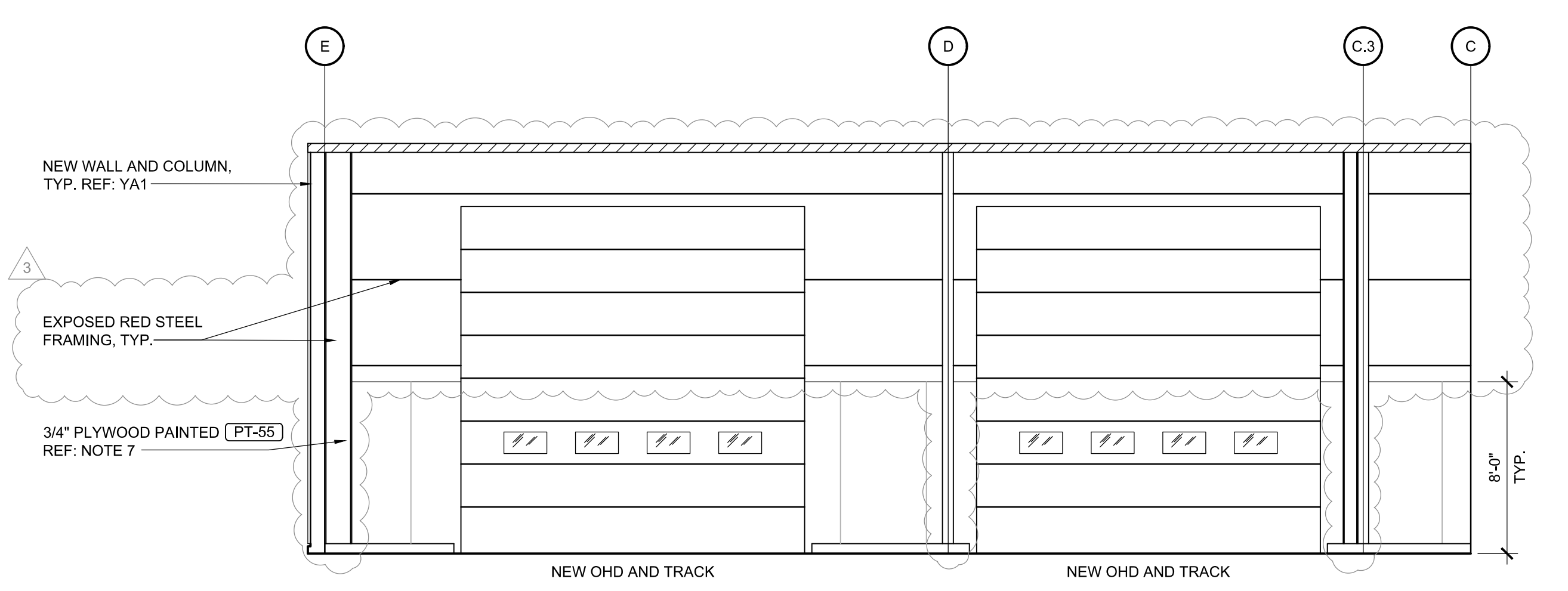
**5 ELEVATION**  
SCALE: 3/16" = 1'-0"



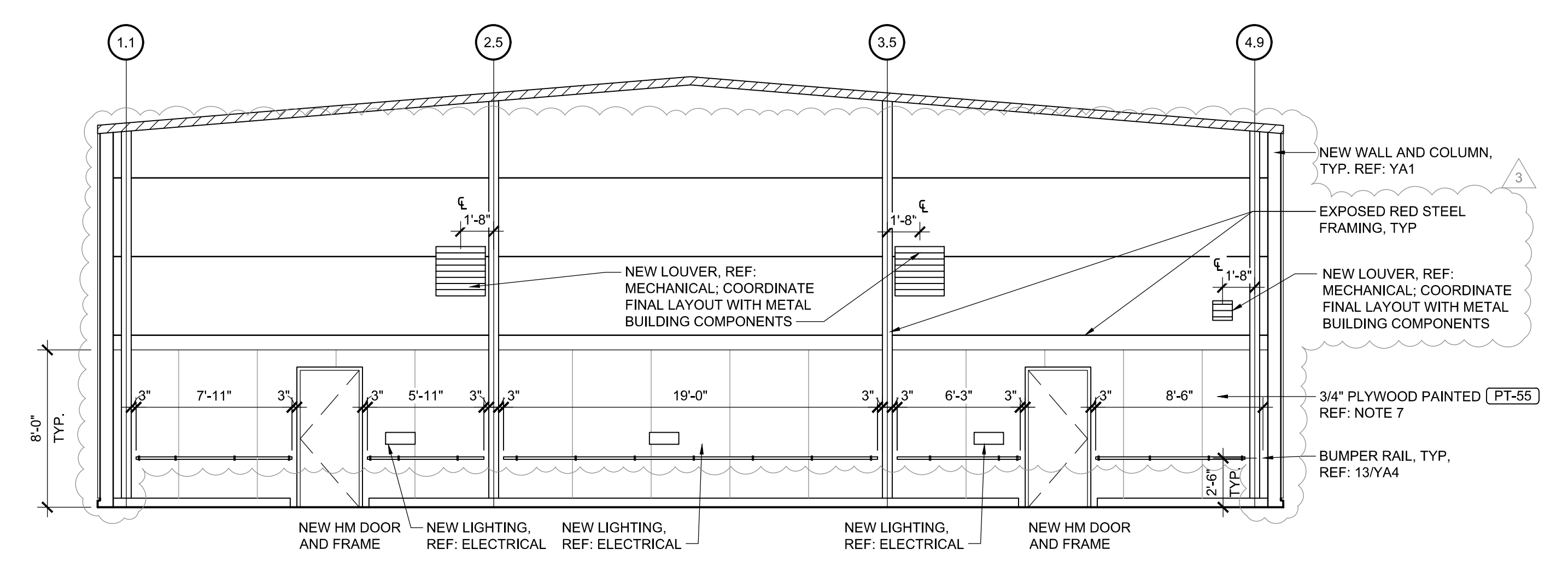
**4 ELEVATION**  
SCALE: 3/16" = 1'-0"



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



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



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

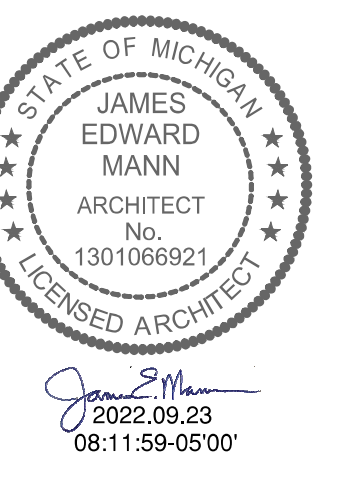
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 CONSIDERED A VIOLATION OF THE ARCHITECTS  
 PROFESSIONAL ETHICS AND THE LAW.

**REMODEL**  
 STORE NUMBER: 08S  
 18720 MARTELLO RD  
 MARSHALL, MI 49068  
 JOB NUMBER: 03-21-20336

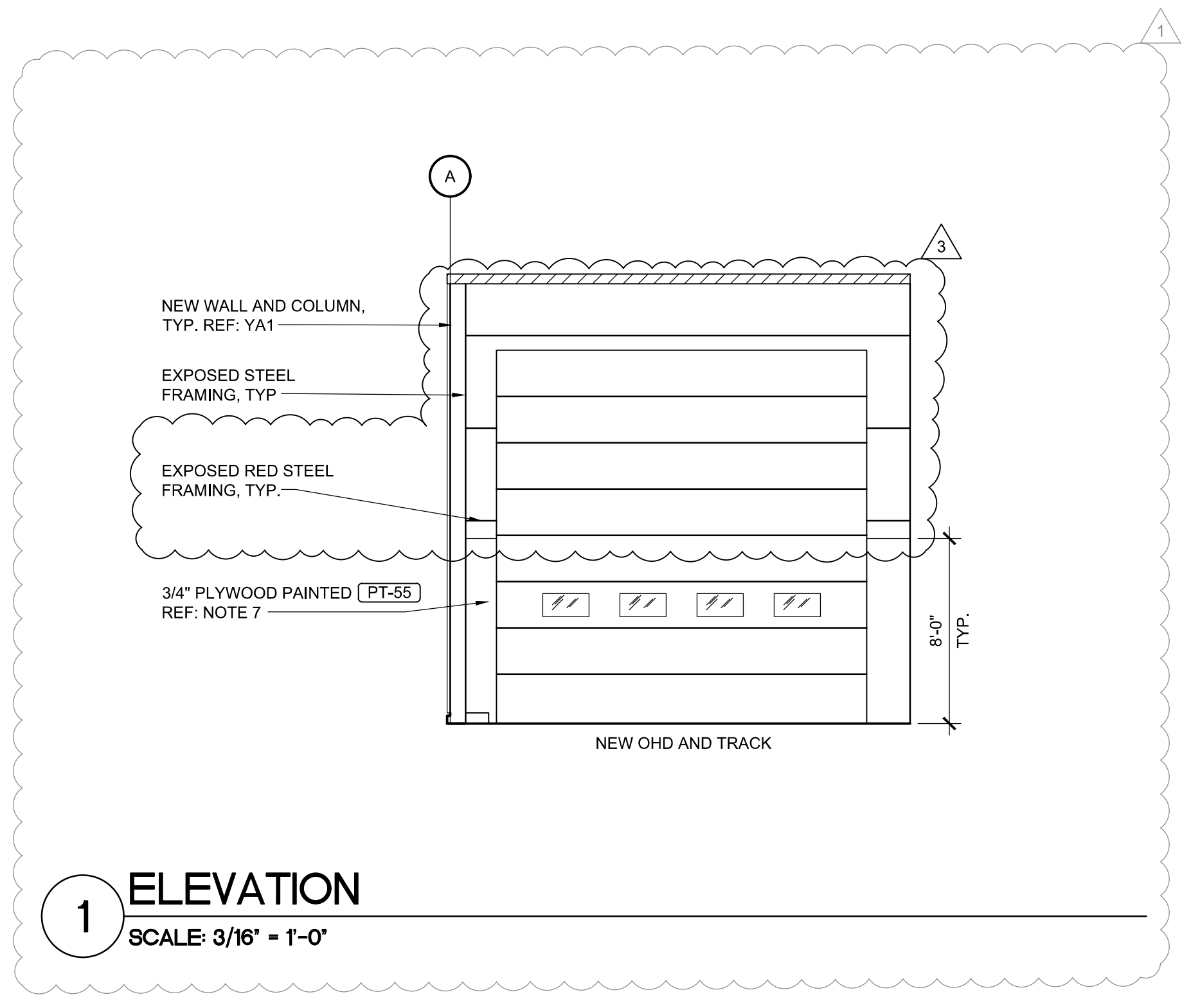
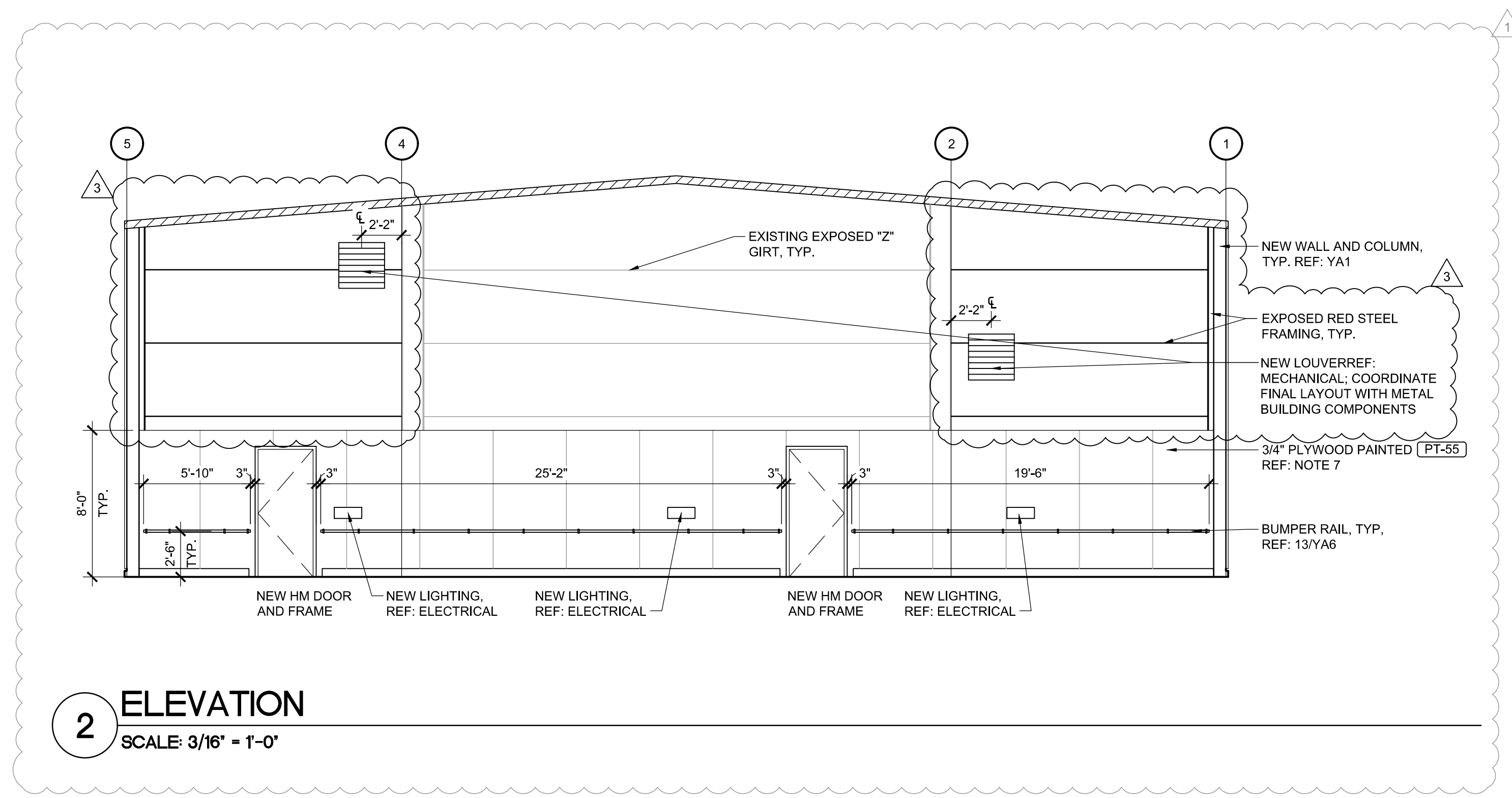
**ISSUE BLOCK**

NO.	DATE	DESCRIPTION
1	07/09/21	ADD 1
3	09/20/22	CCD 1

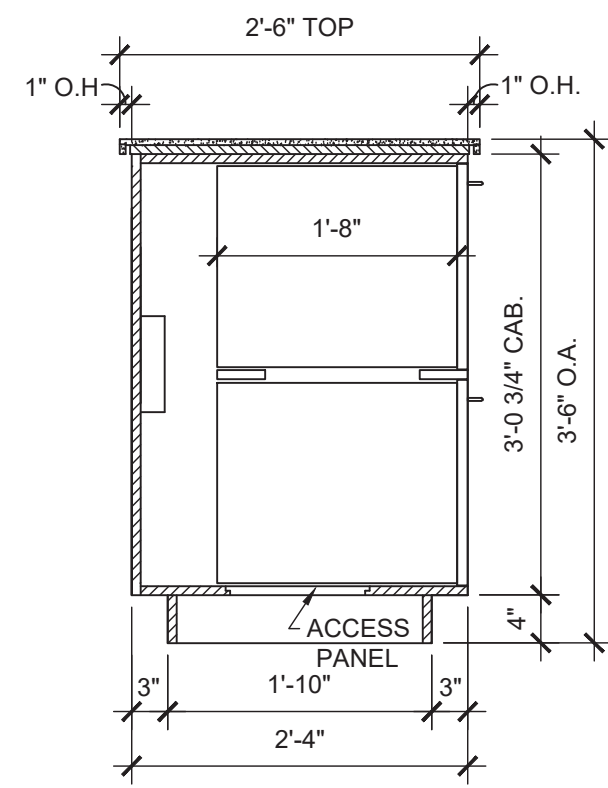
CHECKED BY: RAF  
 DRAWN BY: JDH  
 DOCUMENT DATE: 05/05/21



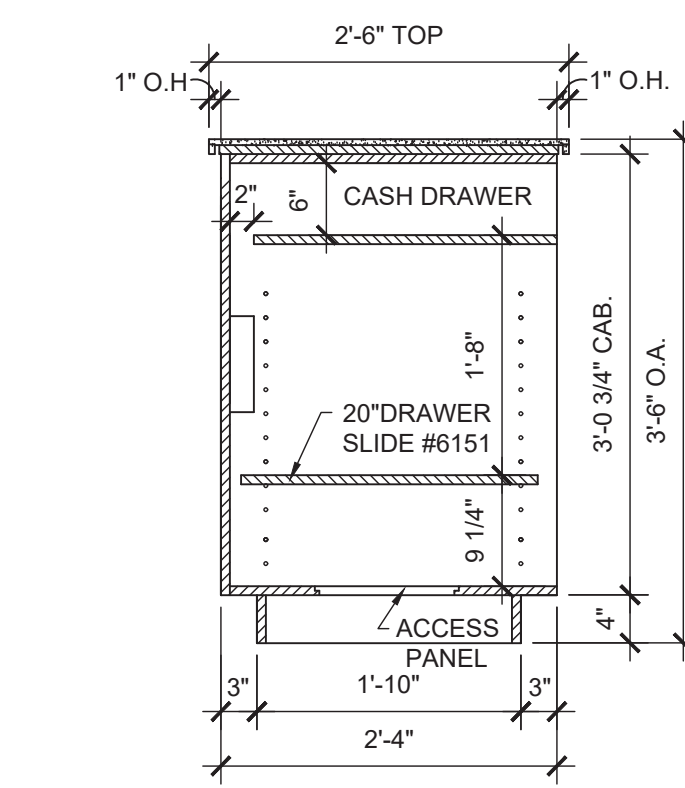
- SHEET NOTE:**
- EXISTING SIGNAGE TO REMAIN UNLESS NOTED OTHERWISE.
  - REFER TO ELECTRICAL SHEETS FOR WALL PACK LIGHTS AND LOCATIONS.
  - REFER TO MECHANICAL SHEETS FOR EXACT MOUNTING HEIGHTS OF EXHAUST FANS.
  - SEAL HOLES IN METAL BUILDING PANELS AS REQUIRED.
  - NEW RIDGE VENT TO MATCH EXISTING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



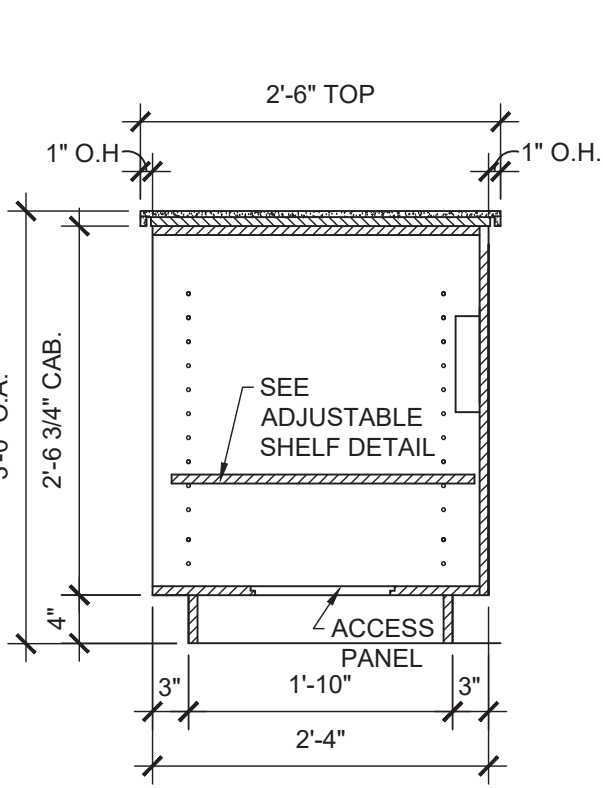
Sep21.2022.9:52pm - User: Joseph Haney  
 E:\3016247-20336 - Evans - Marshall, MI\3016247-20336-CD\0000-Architectural\171\IAS-1 INTERIOR ELEVATIONS.dwg



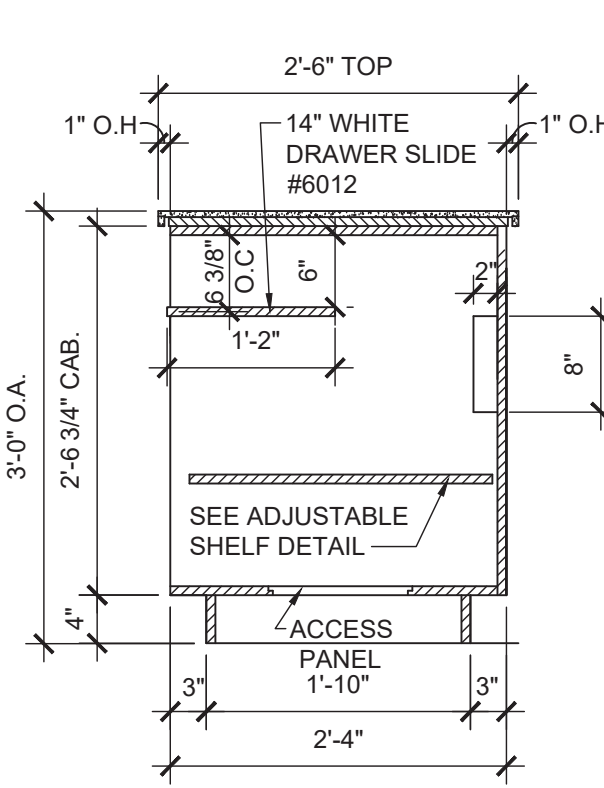
10 COUNTER SECTION  
Scale: 3/4" = 1'-0"



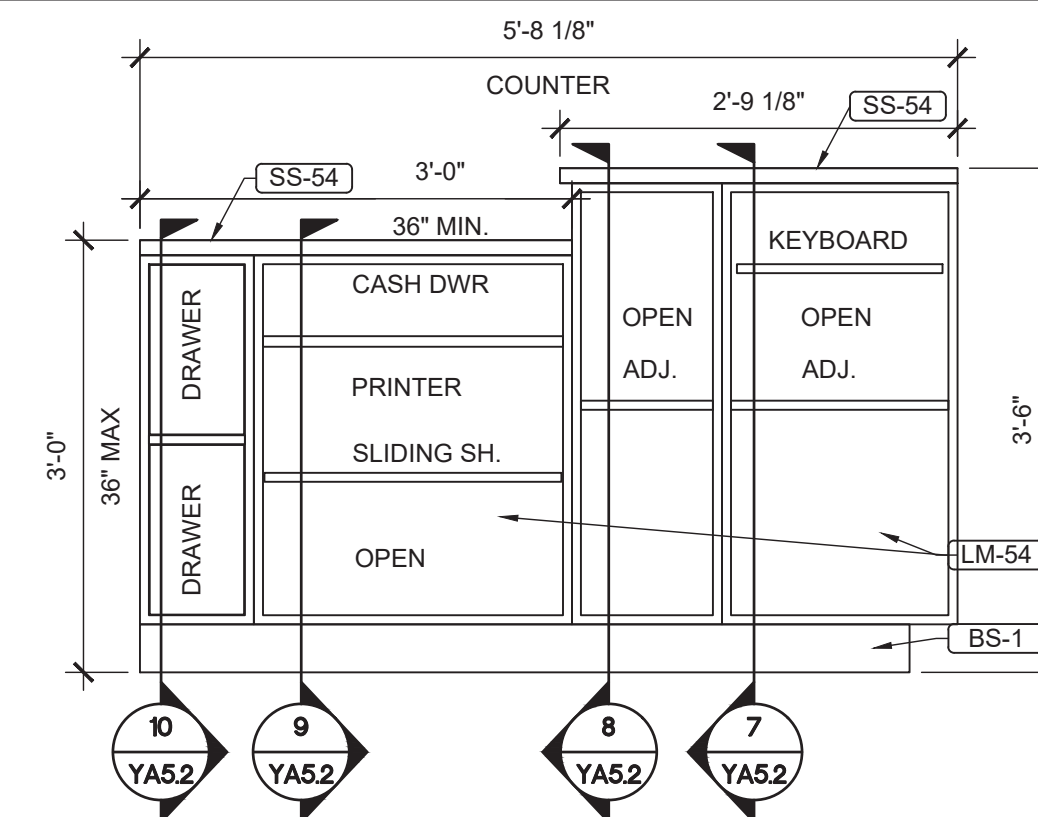
9 COUNTER SECTION  
Scale: 3/4" = 1'-0"



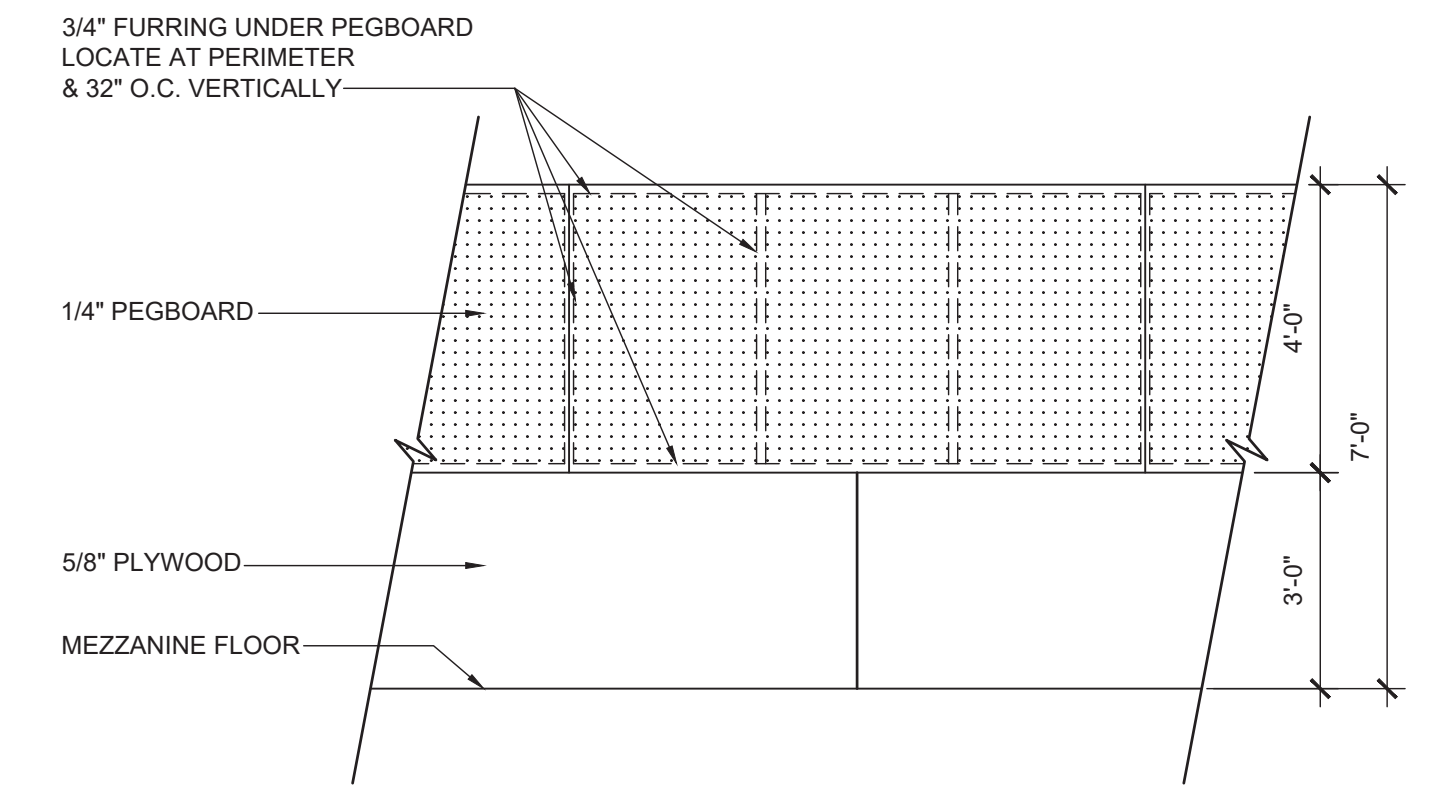
8 COUNTER SECTION  
Scale: 3/4" = 1'-0"



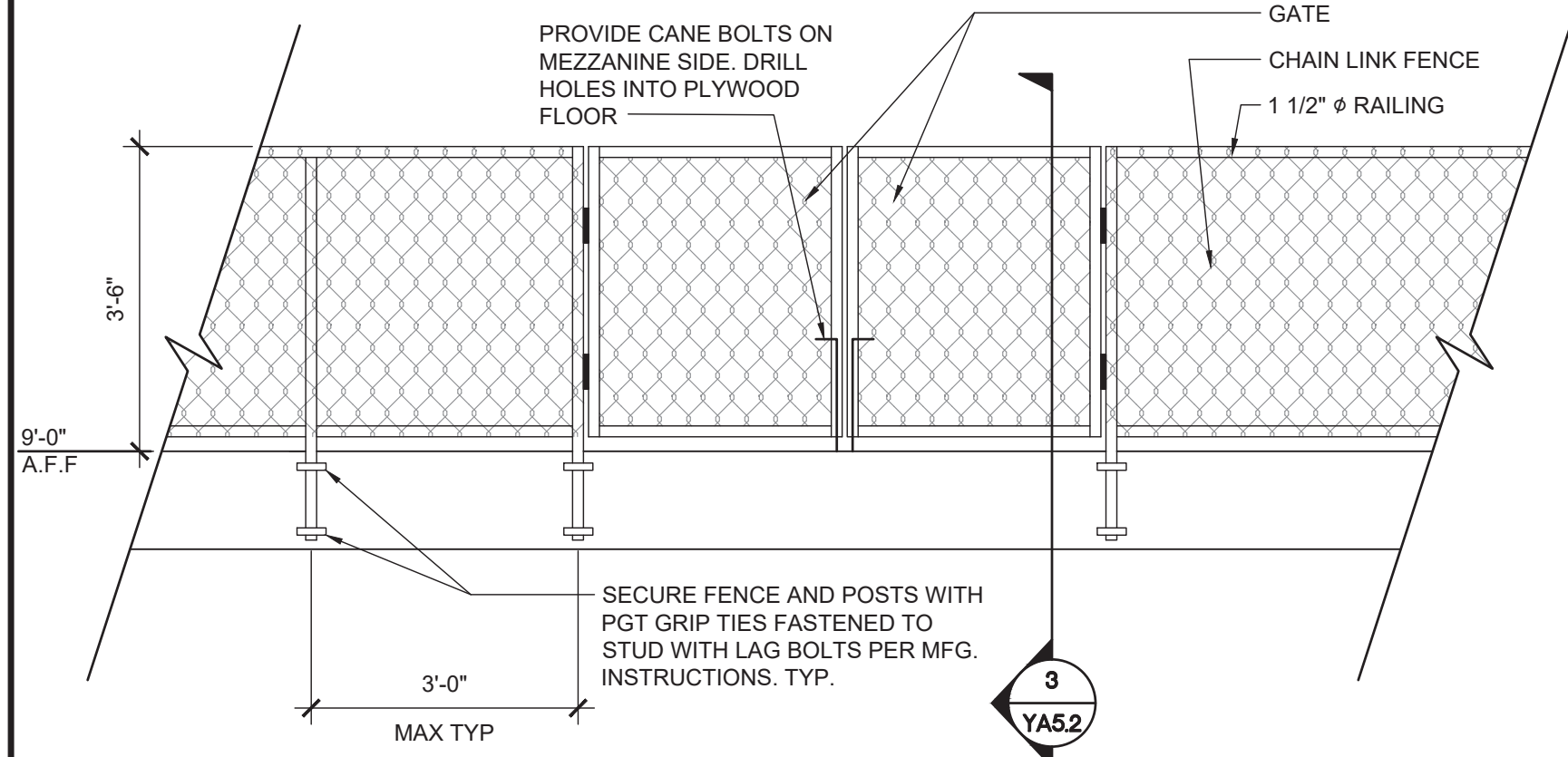
7 COUNTER SECTION  
Scale: 3/4" = 1'-0"



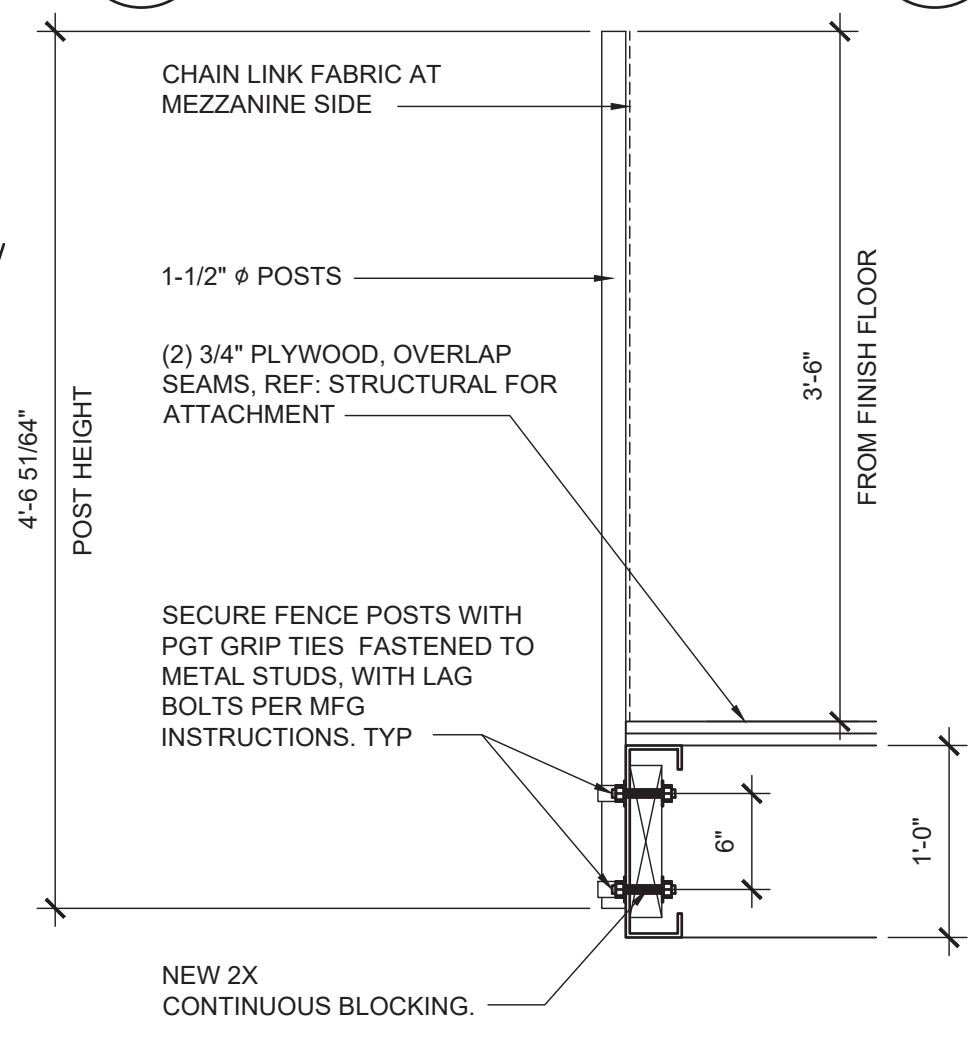
6 LOBBY COUNTER ELEVATION  
Scale: 3/4" = 1'-0"



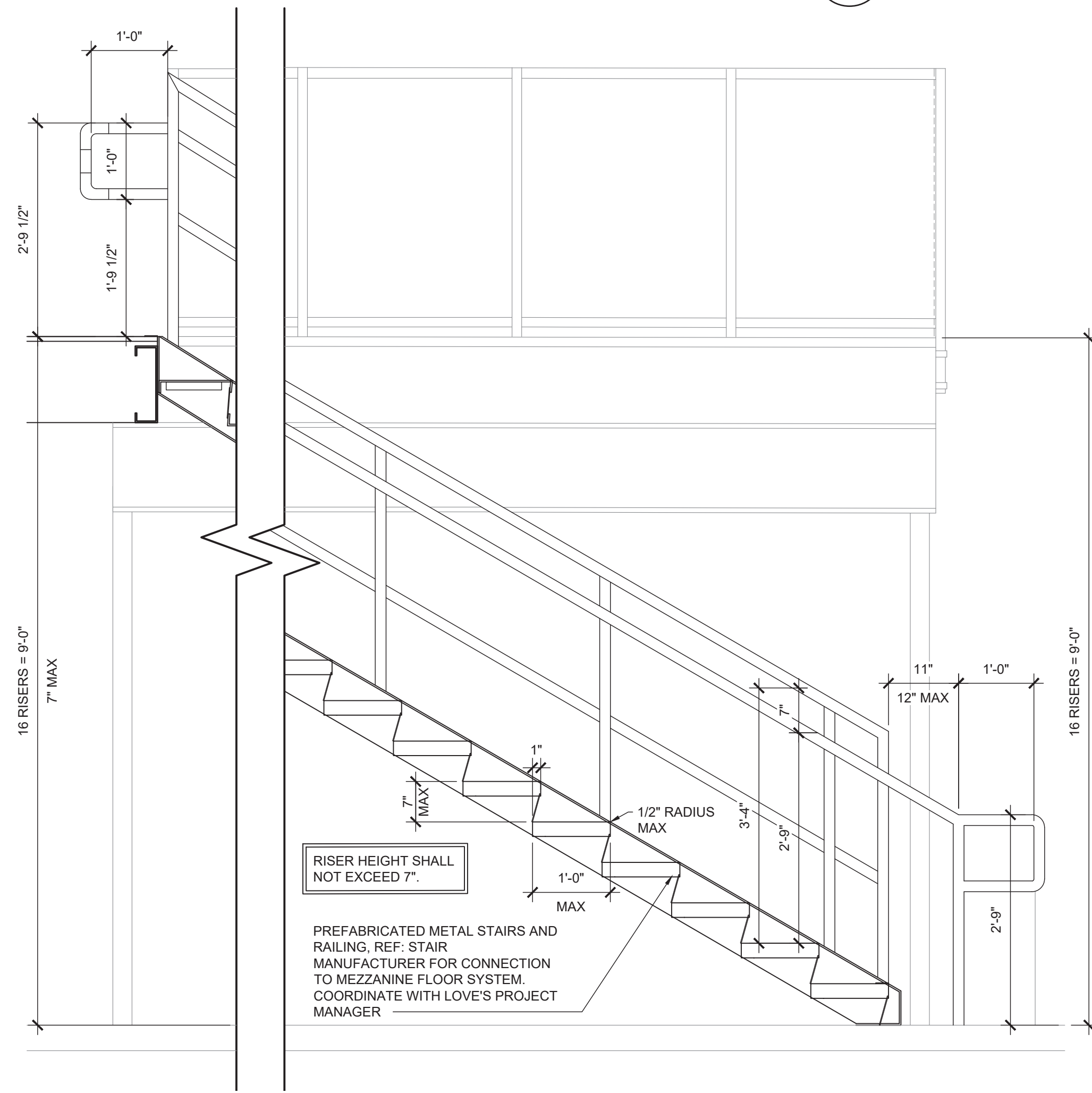
5 MEZZANINE ELEVATION  
Scale: 3/8" = 1'-0"



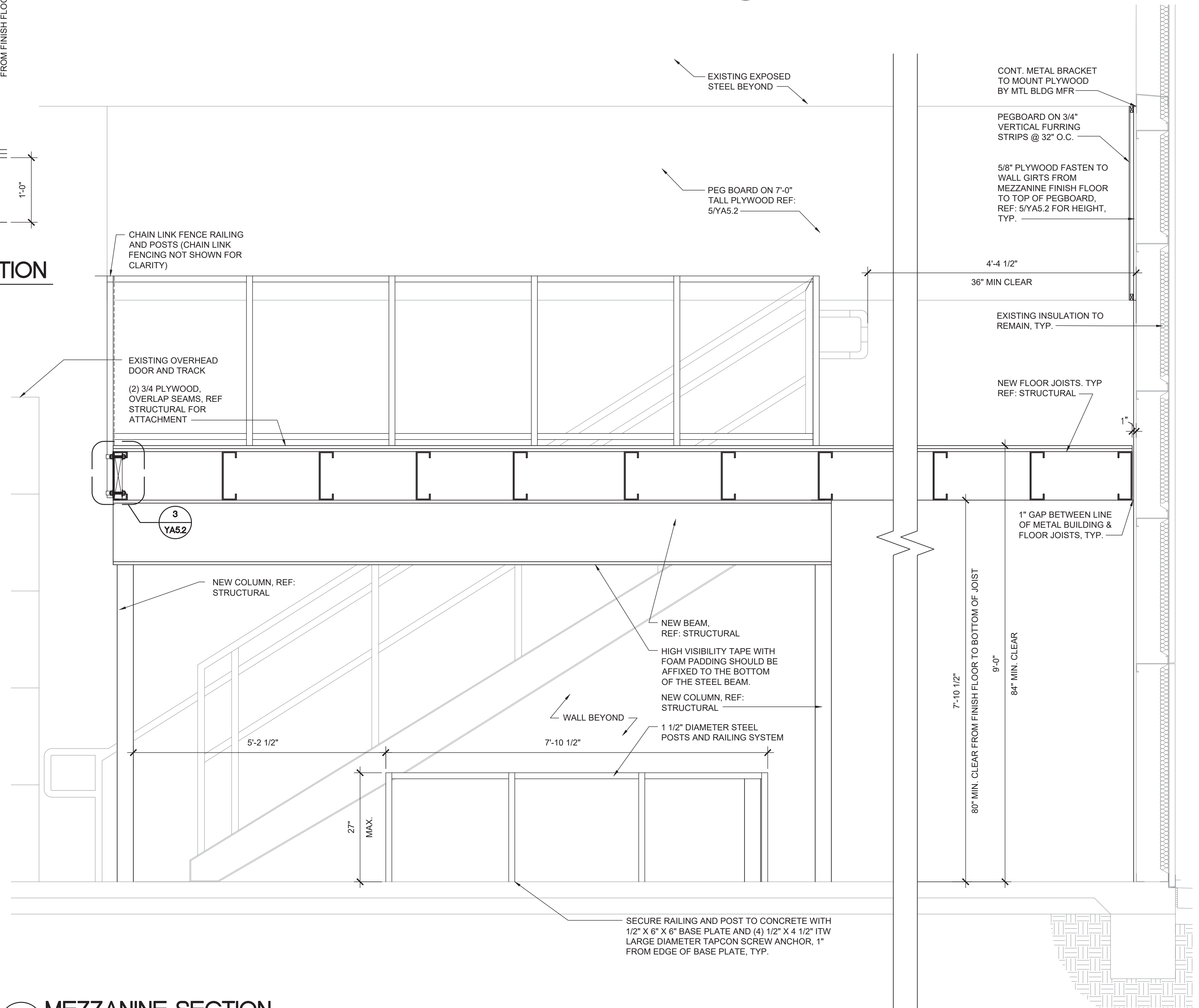
4 CHAIN-LINK RAIL ELEVATION  
Scale: 1/2" = 1'-0"



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"

May 12, 2021 15:07:00 - User: jlene.howard  
 E:\31024\2-2020\12-1020\12-1020-ARCH\12-1020-2 SECTIONS AND ELEVATIONS.dwg  
 J:\31024\2-2020\12-1020\12-1020-ARCH\12-1020-2 SECTIONS AND ELEVATIONS.dwg  
 HARRISON FRENCH & ASSOCIATES, LTD.  
 1705 S. Walton Blvd., Suite 3  
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STAIR NUMBER: 108  
18720 MARTELLO RD  
MARSHALL, MI 48868  
JOB NUMBER: 03-21-20336

ISSUE BLOCK

NO.	DATE	DESCRIPTION

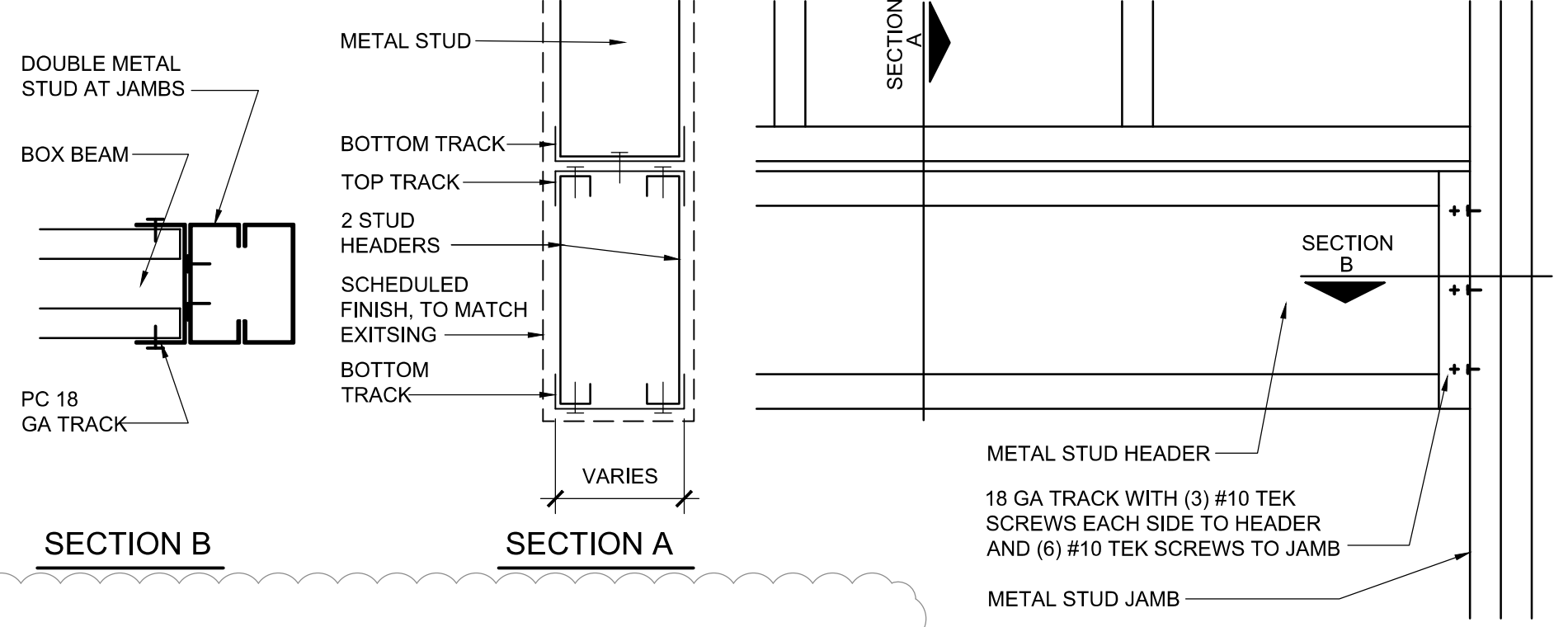
CHECKED BY: RAF  
DRAWN BY: JDH  
DOCUMENT DATE: 05/05/21

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

2021.05.12 20:31:04-05'00"

DOOR SCHEDULE:  
ADDED DOORS 705C AND 711A  
TO THE SCHEDULE.

INTERIOR NON-LOAD BEARING PARTITION HEADER SCHEDULE		
HEADER LENGTH	HEADER MEMBERS	MINIMUM EFFECTIVE PROPERTIES PER STUD
2' TO 6'	(2) 6" x 18 GAUGE	k = 2.042 Sx = 0.670
6' TO 8'	(2) 6" x 16 GAUGE	k = 2.518 Sx = 0.839
8' TO 10'	(2) 6" x 14 GAUGE	k = 3.094 Sx = 1.031
10' TO 12'	(2) 8" x 18 GAUGE	k = 4.134 Sx = 1.033
12' TO 14'	(2) 8" x 16 GAUGE	k = 5.110 Sx = 1.277
14' TO 16'	(2) 8" x 14 GAUGE	k = 6.303 Sx = 1.576
16' TO 18'	(2) 10" x 14 GAUGE	k = 12.325 Sx = 2.456
18' TO 26'	(2) 12" x 16 GAUGE	k = 15.790 Sx = 2.334
27' TO 30'	(2) 12" x 14 GAUGE	k = 19.518 Sx = 3.253

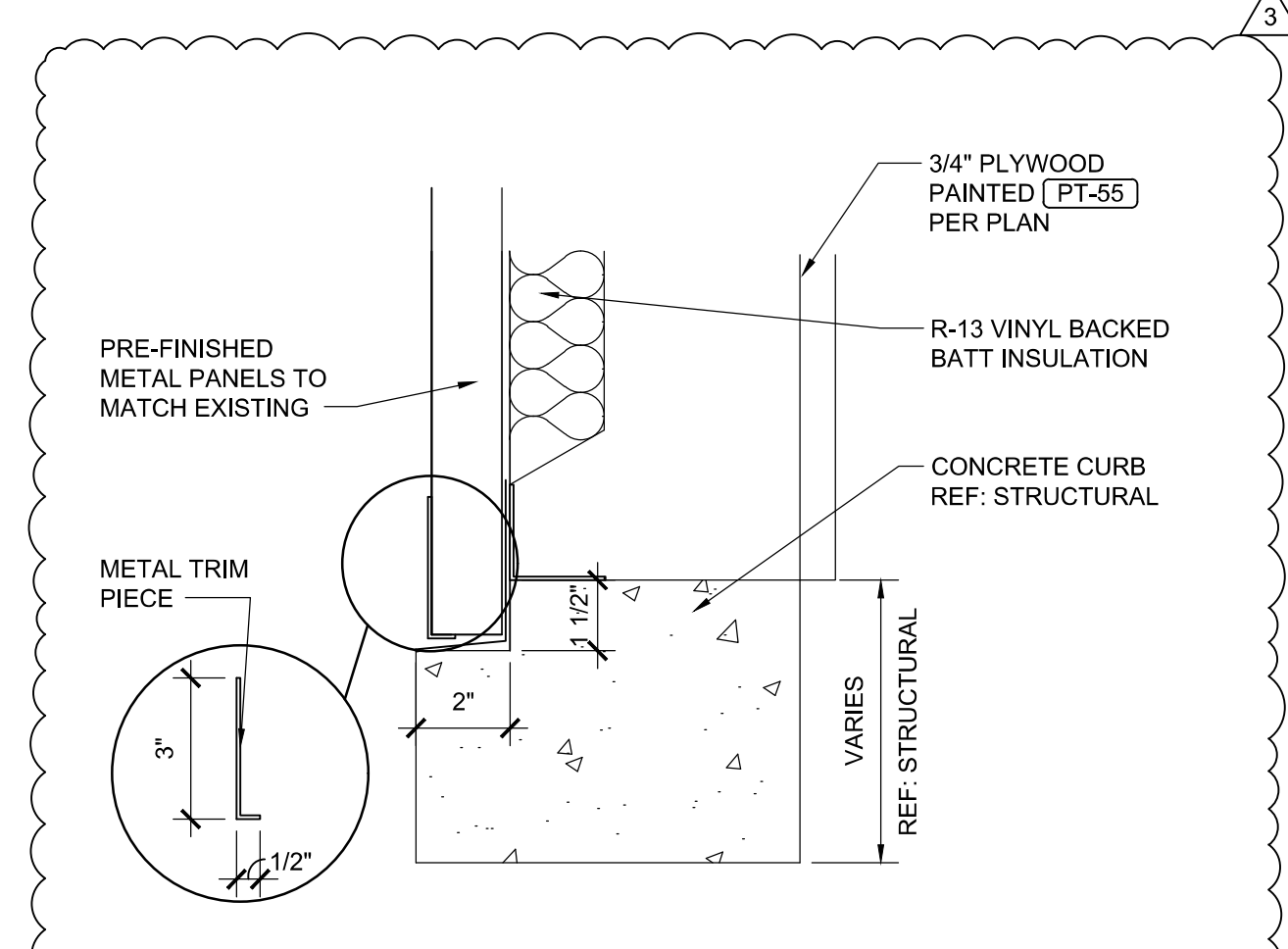


**10 HEADER CONNECTION DETAIL**  
SCALE: 1 1/2" = 1'-0"

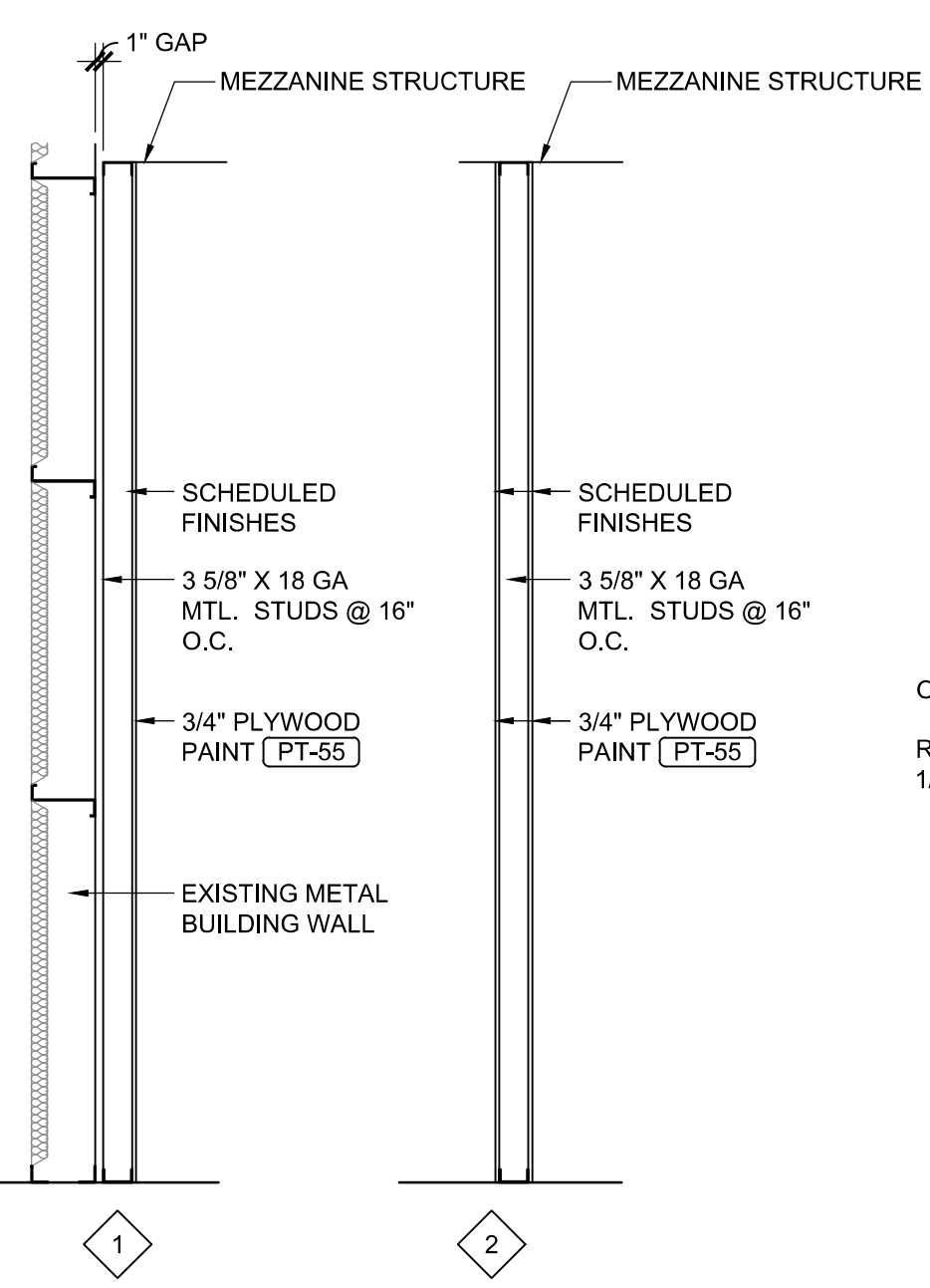
DOOR SCHEDULE													
MARK	ROOM	DOOR TYPE	WIDTH	HEIGHT	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	GLAZING	HEAD	JAMB	THRESHOLD	REMARKS
701A	NEW SERVICE BAYS	H	16'-0"	16'-0"	---	PRE-FINISHED	---	---	WINDOW PORTS (4)	4YA6	5YA6	7YA6	NOTES 2 & 7
701B	NEW SERVICE BAYS	H	16'-0"	16'-0"	---	PRE-FINISHED	---	---	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	---	---	---	---	---	---	NOTES 3 & 8
705C	NEW LOBBY	C	3'-0"	7'-0"	HOLLOW METAL 16 GA (INSULATED)	PRE-FINISHED BRONZE	METAL	BRONZED	HALF GLASS	11YA6	12YA6	---	NOTES 5 & 8 WITH LOUVER
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
711A	NEW CHANGING ROOM	B	3'-0"	7'-0"	HOLLOW METAL 16 GA (INSULATED)	PRE-FINISHED BRONZE	METAL	BRONZED	---	11YA6	12YA6	---	NOTES 5 & 8 WITH LOUVER

NOTES: - MASTER LIST. NOT ALL NOTES MAY BE USED.

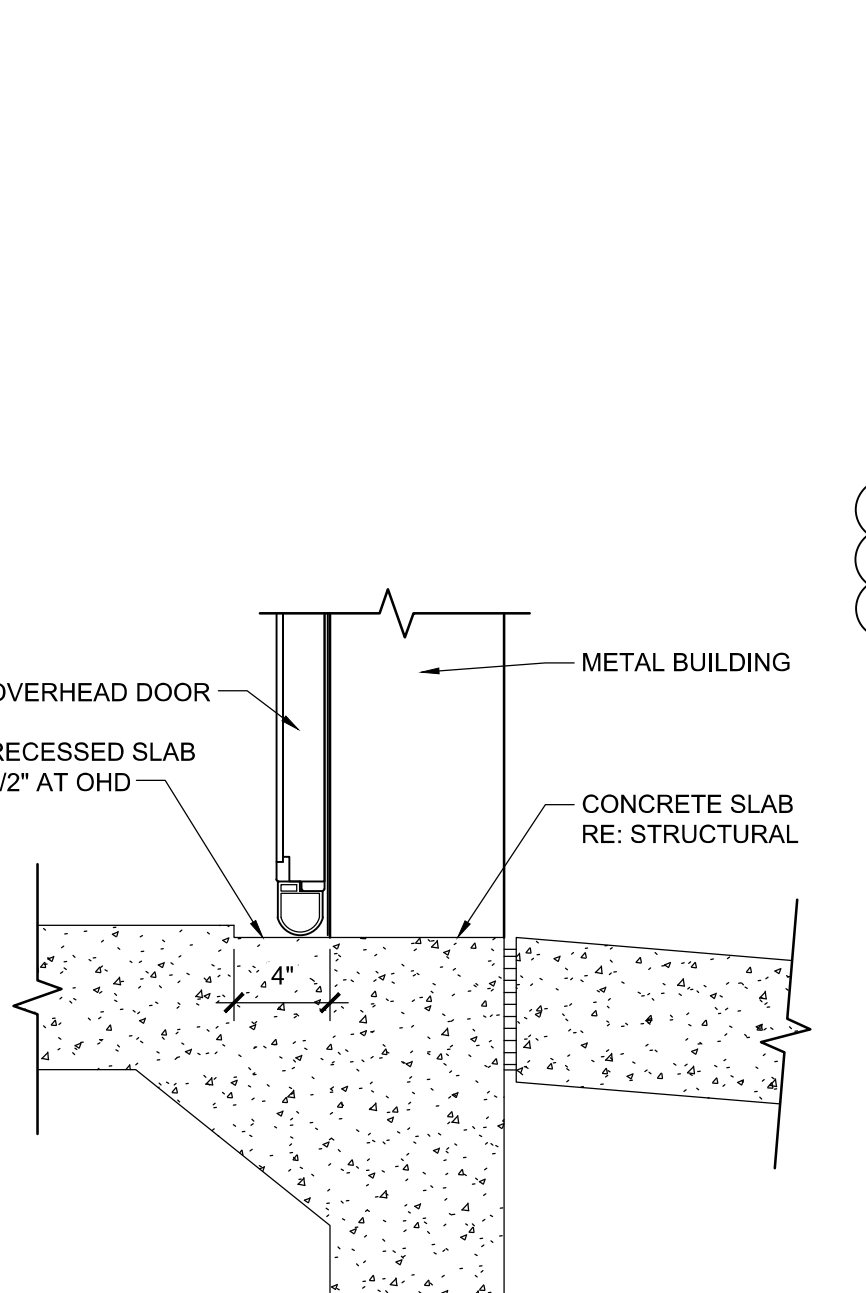
- "CORNELL" ROLLING FIRE DOOR ERC-10, 3-HOUR RATED, WITH ELECTRIC OPERATOR, PROVIDED & INSTALLED BY MBM.
- "CLOPAY" OVERHEAD DOOR TO HAVE ELECTRIC OPERATOR, PROVIDED AND INSTALLED BY MBM.
- DOOR AND GLASS TO BE PROVIDED BY MBM.
- "CORNELL" ROLLING FIRE DOOR, ERC-10, 3-HOUR RATED WITH HAND CRANK OPERATOR, PROVIDED & INSTALLED BY MBM.
- ALL DOORS TO BE PROVIDED AND INSTALLED BY MBM. 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.



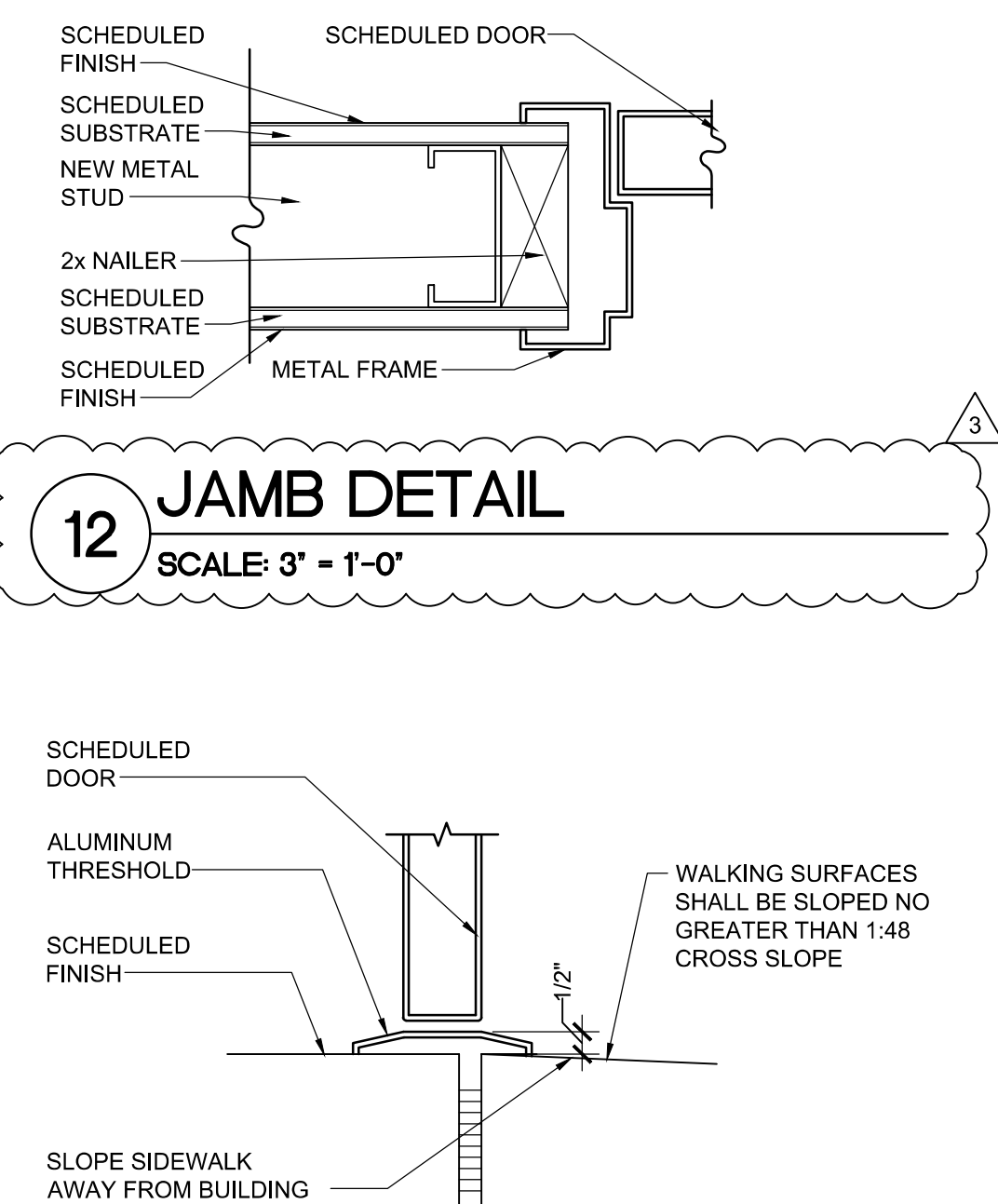
**9 BASE TRIM DETAIL**  
SCALE: 3" = 1'-0"



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

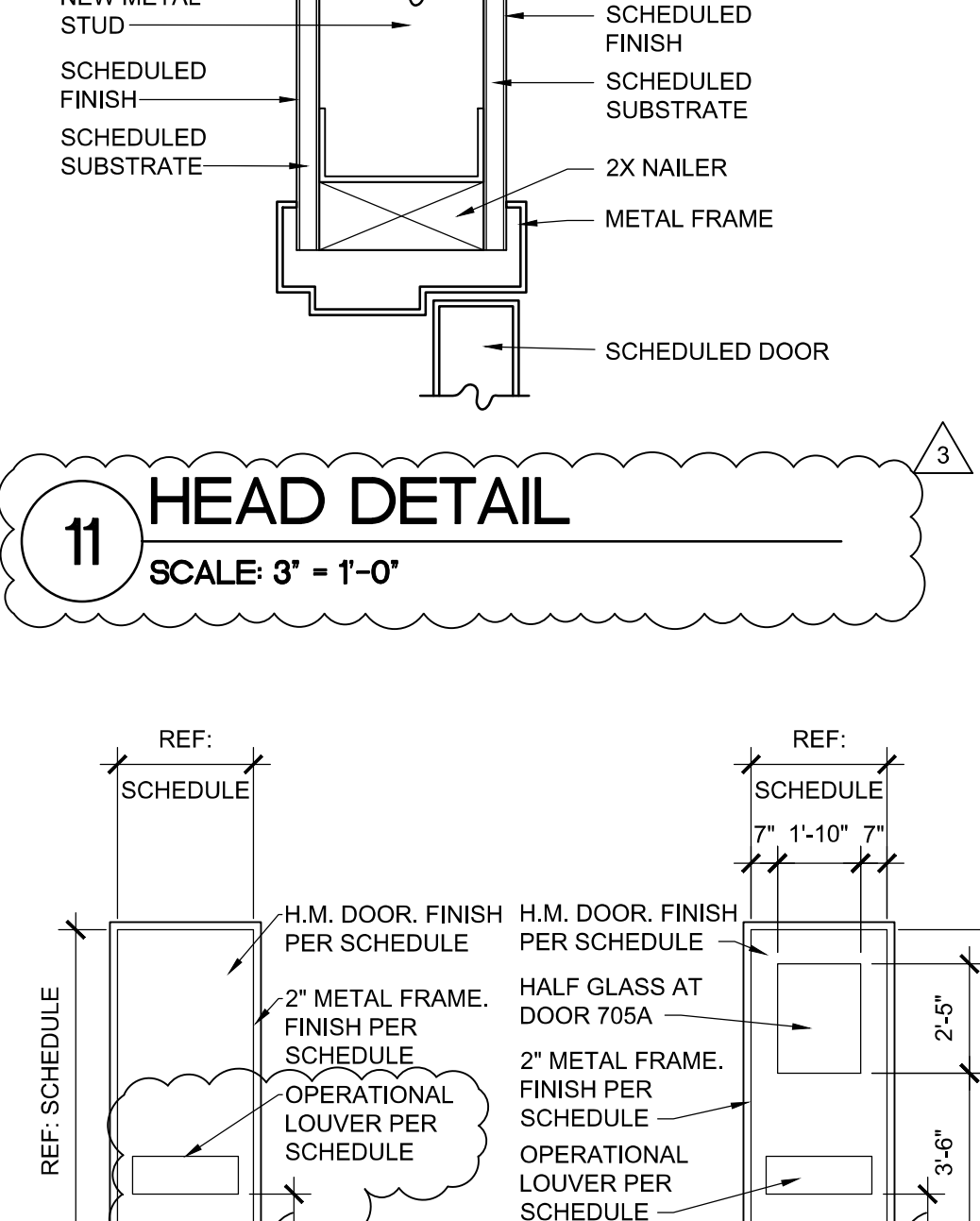


**7 OHD THRESHOLD DETAIL**  
SCALE: 1 1/2" = 1'-0"

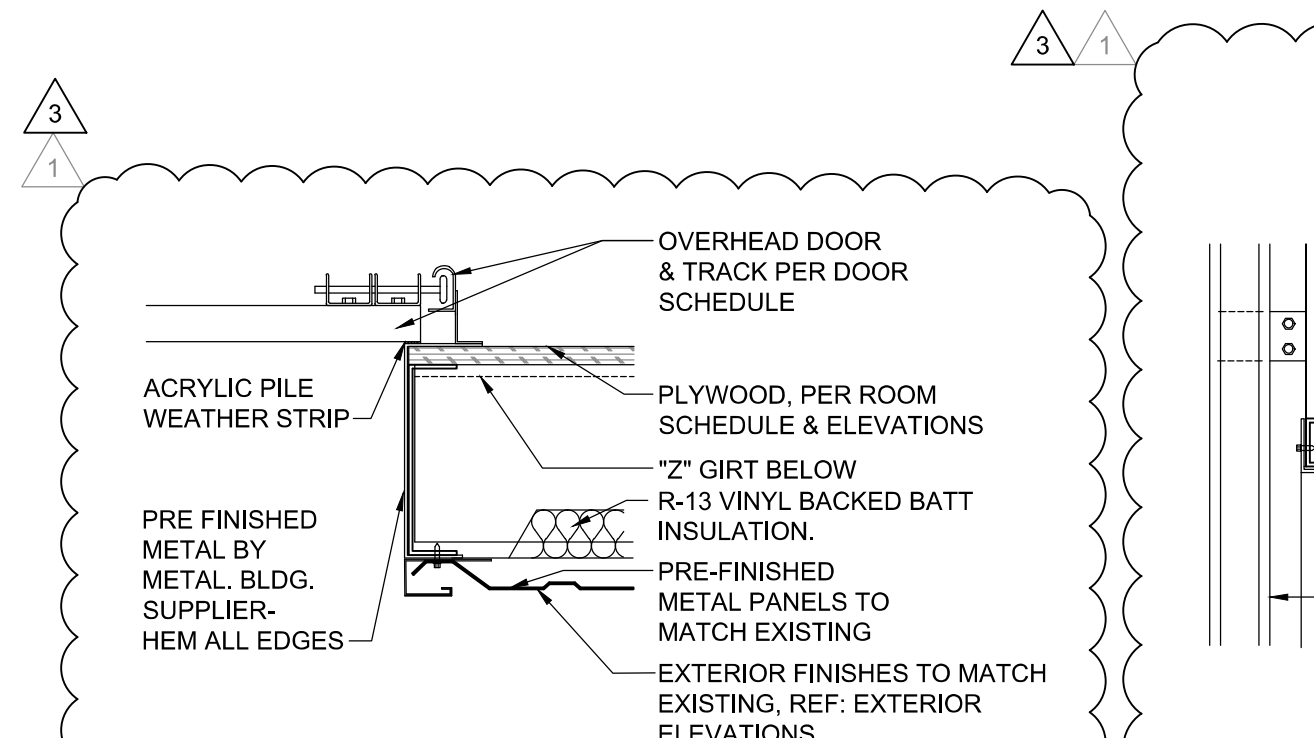


**12 JAMB DETAIL**  
SCALE: 3" = 1'-0"

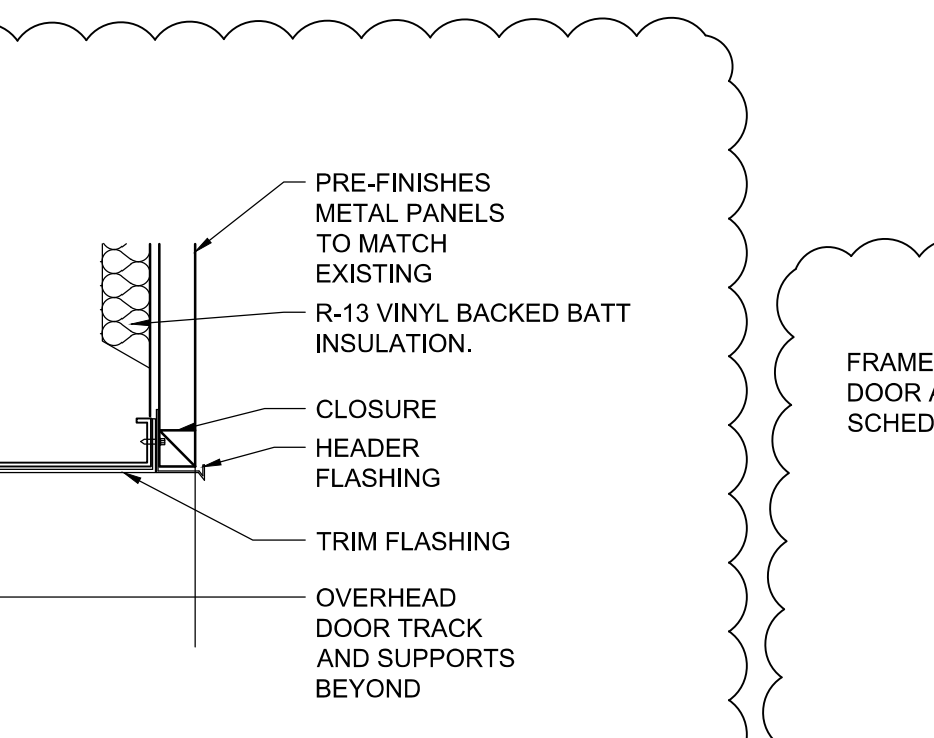
**6 THRESHOLD DETAIL**  
SCALE: 3" = 1'-0"



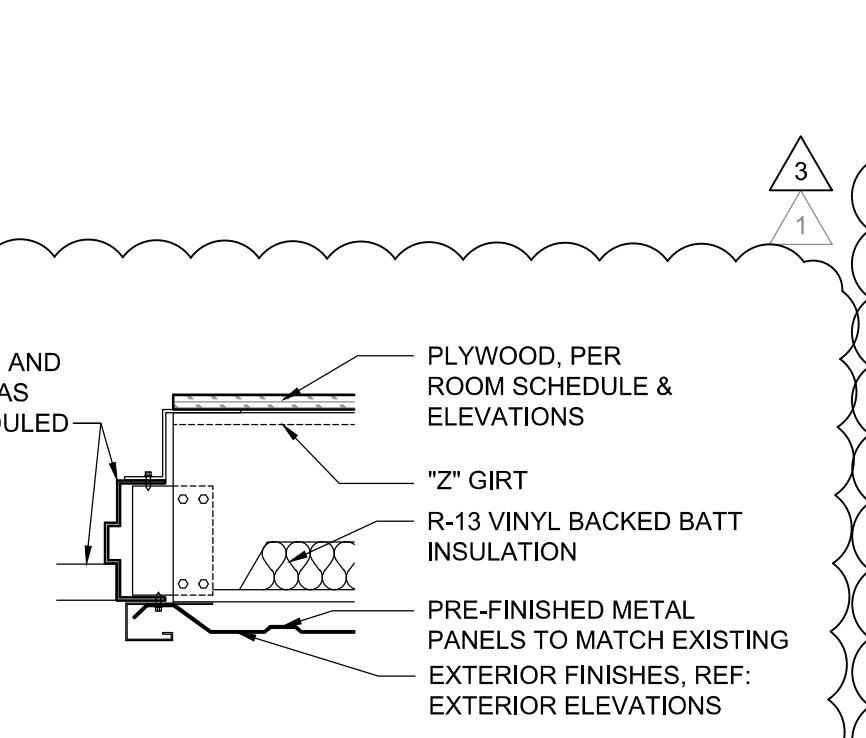
**11 HEAD DETAIL**  
SCALE: 3" = 1'-0"



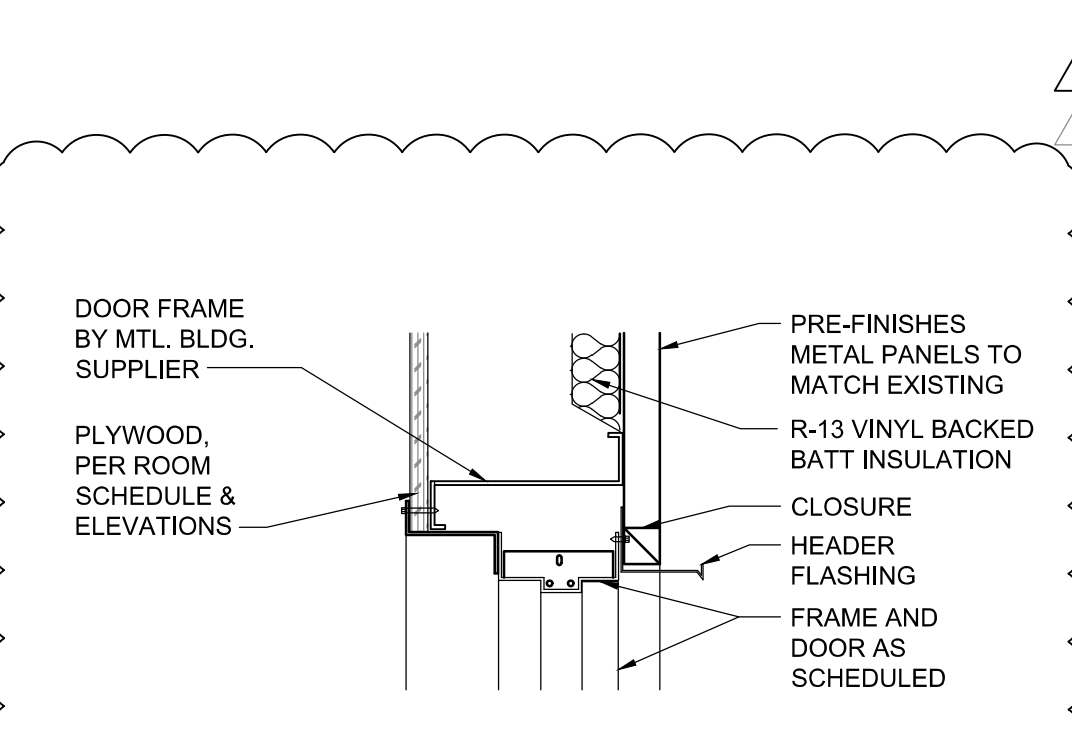
**5 OHD JAMB DETAIL**  
SCALE: 1 1/2" = 1'-0"



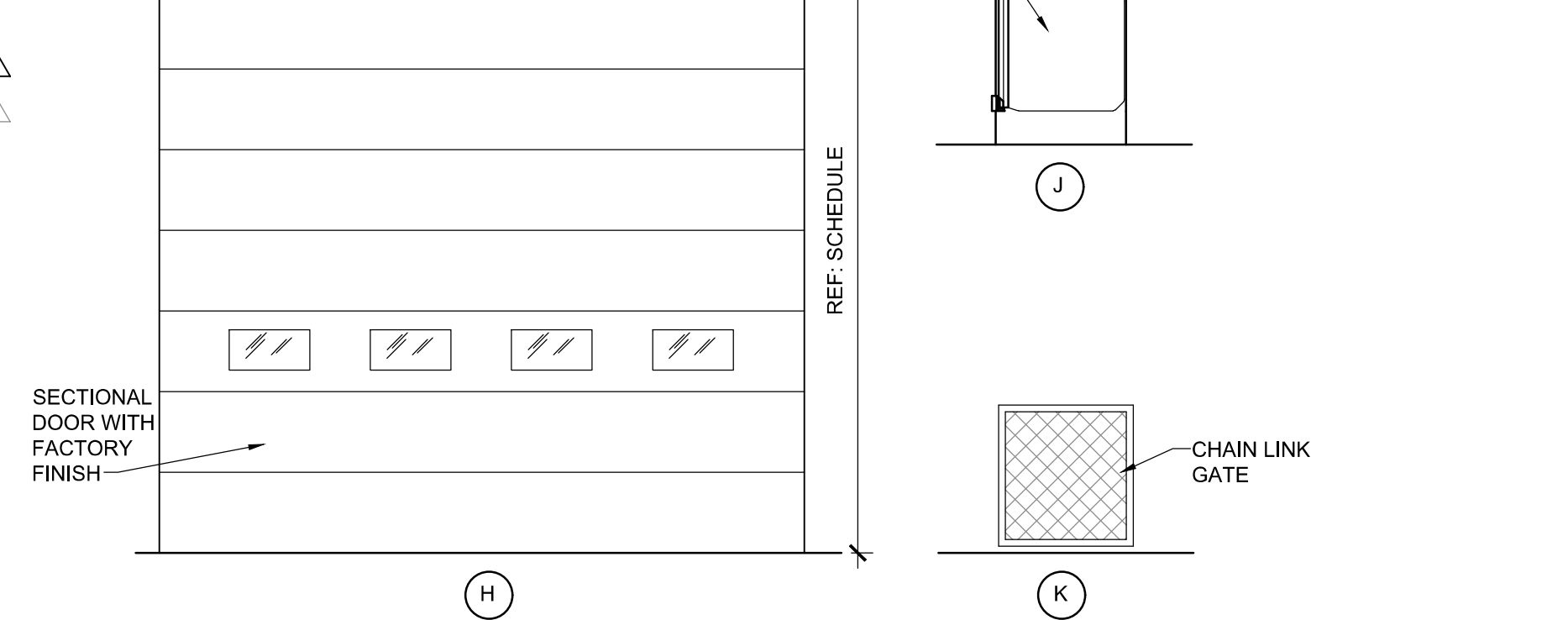
**4 OHD HEAD DETAIL**  
SCALE: 1 1/2" = 1'-0"



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



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



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

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**REMODEL**

STORE NUMBER: 685  
18720 GAYLE RD  
MARRSHALL, MI 49868

JOB NUMBER: 03-21-20358

ISSUE BLOCK		
1	07/09/21	ADD 1
2	04/01/22	ADD 2
3	09/20/22	CCD 1

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

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

James E. Mann  
2022.09.23  
08:12:05-0500'

DOOR SCHEDULES,  
ELEVATIONS &  
DETAILS

SHEET:  
**YA6**

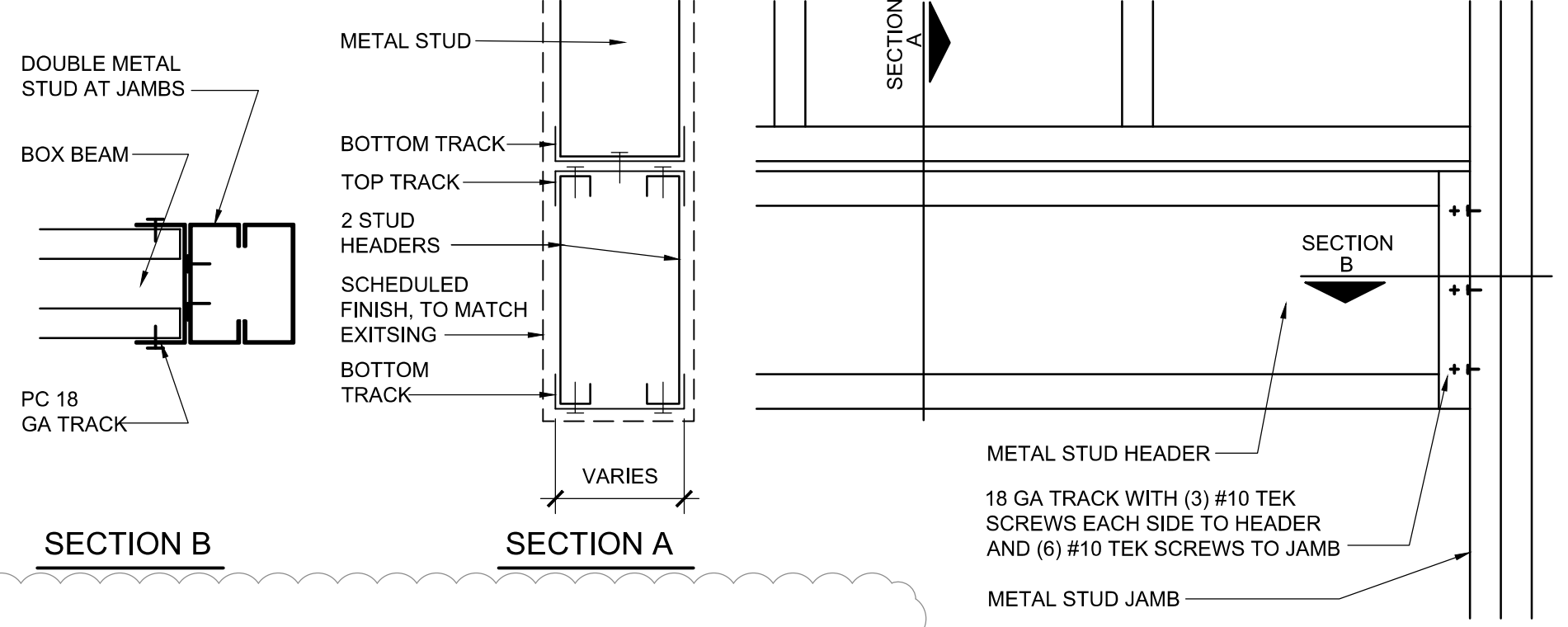
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 E:\030521-20358 - Lowes - Marshall, MI\3306-CD\0000-Architectural\1801\468-DOOR SCHEDULE, ELEVATIONS, & DETAILS.dwg

DOOR SCHEDULE:  
ADDED DOORS 705D AND 706A TO THE SCHEDULE.

DOOR SCHEDULE:  
ADDED DOORS 705C AND 711A TO THE SCHEDULE.

**INTERIOR NON-LOAD BEARING PARTITION HEADER SCHEDULE**

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

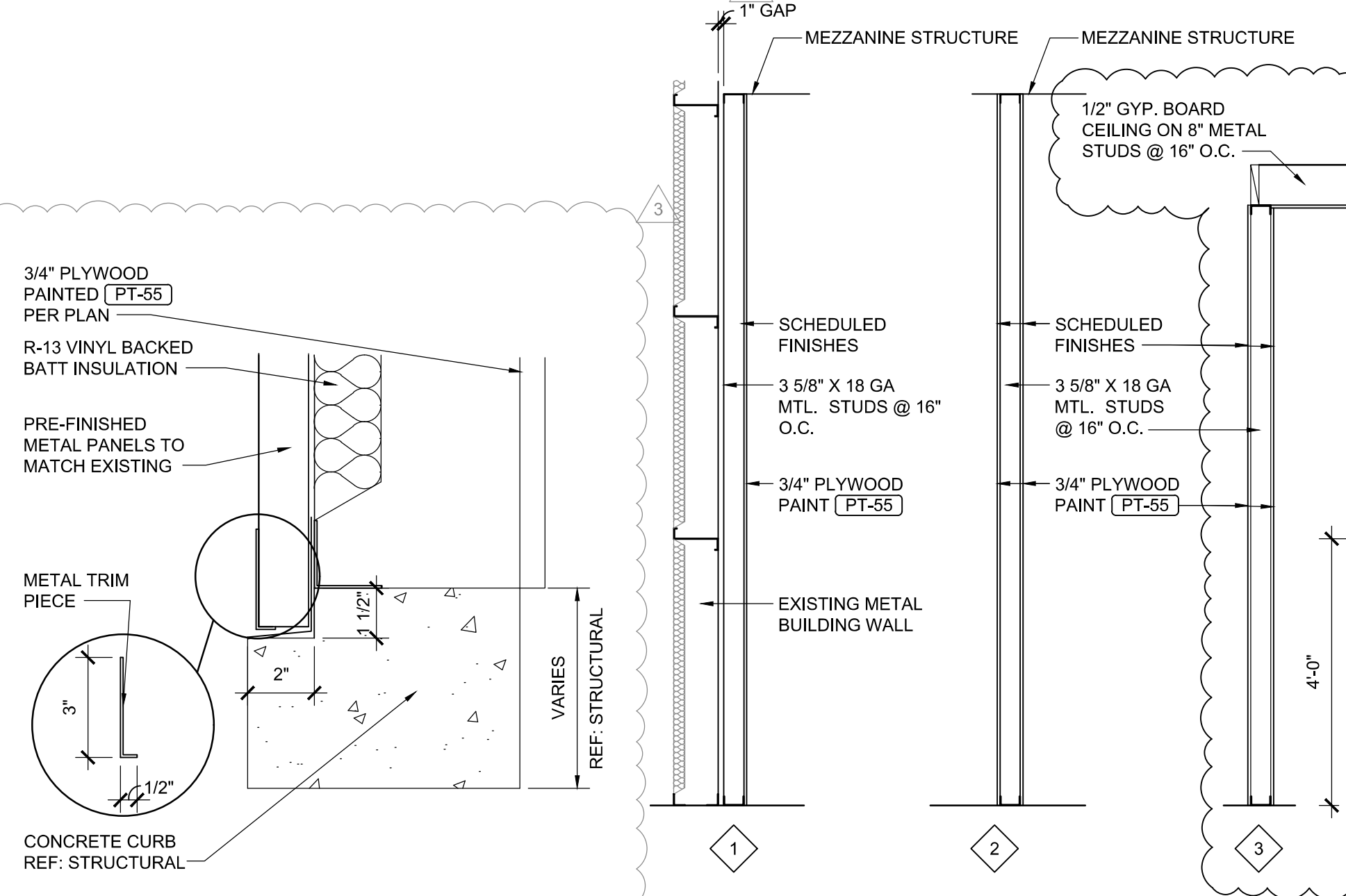


**10 HEADER CONNECTION DETAIL**  
SCALE: 1 1/2" = 1'-0"

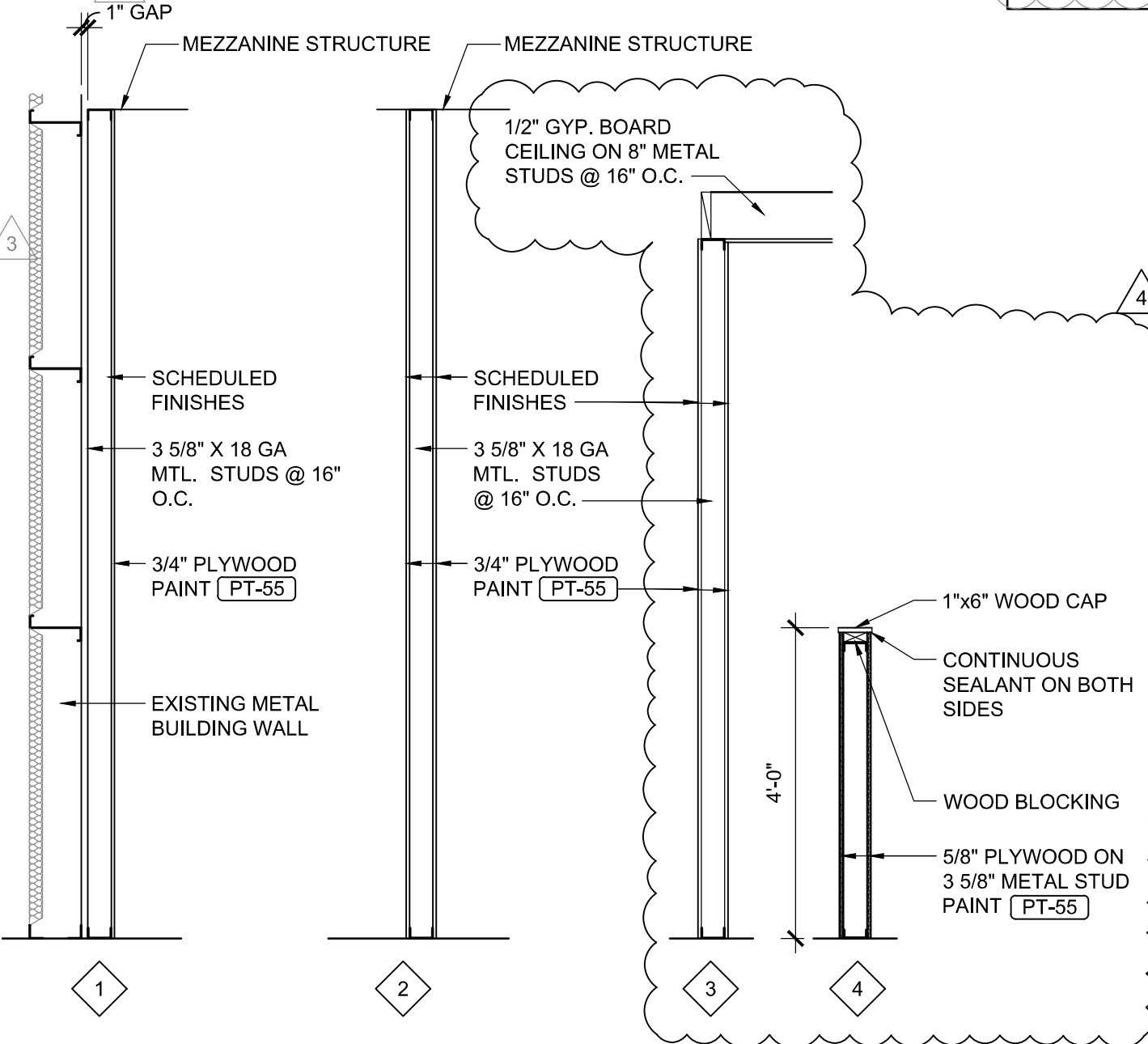
**DOOR SCHEDULE**

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	---	---	---	---	---	---	NOTES 3 & 8
705C	NEW LOBBY	C	3'-0"	7'-0"	HOLLOW METAL 16 GA (INSULATED)	PRE-FINISHED BRONZE	METAL	BRONZED	HALF GLASS	11YA6	12YA6	---	NOTES 5 & 8 WITH LOUVER
705D	NEW HALL	A	3'-0"	7'-0"	ALUMINUM	PRE-FINISHED BRONZE	ALUMINUM	BRONZED	1/4" SOLAR GRAY	11YA6	12YA6	6YA6	NOTES 6, 8, & 10 W/ NO SWEEP
706A	NEW AIR COMPRESSOR ROOM	D	(PR) 3'-0"	7'-0"	HOLLOW METAL 16 GA (INSULATED)	PRE-FINISHED BRONZE	METAL	BRONZE	NONE	11YA6	12YA6	---	DEAD BOLT, LOUVERS, NOTES 5 & 9
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
711A	NEW CHANGING ROOM	B	3'-0"	7'-0"	HOLLOW METAL 16 GA (INSULATED)	PRE-FINISHED BRONZE	METAL	BRONZED	---	11YA6	12YA6	---	NOTES 5 & 8 WITH LOUVER

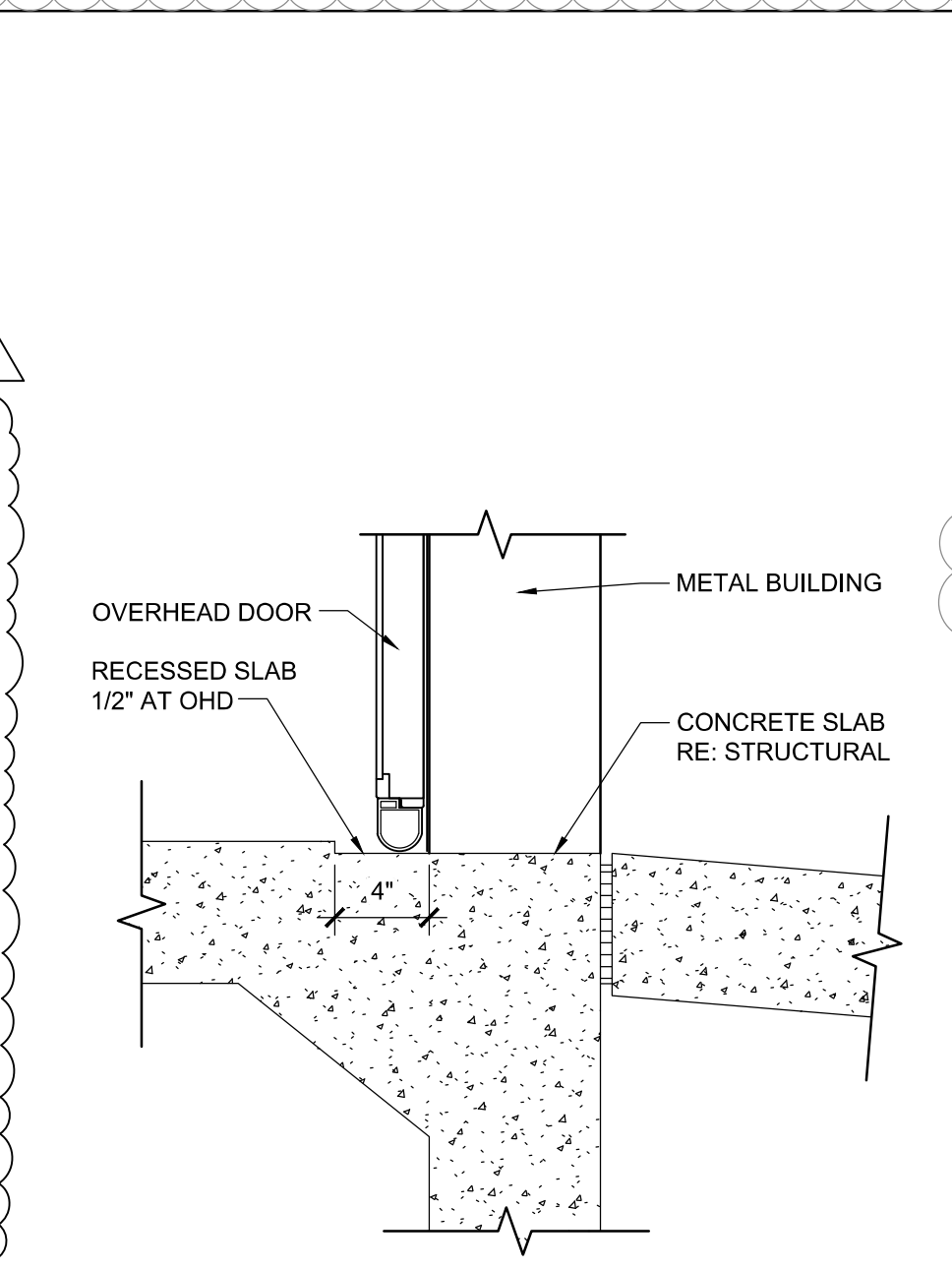
- NOTES: - MASTER LIST. NOT ALL NOTES MAY BE USED.**
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  - "CLOPAY" OVERHEAD DOOR TO HAVE ELECTRIC OPERATOR, PROVIDED AND INSTALLED BY MBM.
  - DOOR AND GLASS TO BE PROVIDED BY MBM.
  - "CORNELL" ROLLING FIRE DOOR, ERC-10, 3-HOUR RATED WITH HAND CRANK OPERATOR, PROVIDED & INSTALLED BY MBM.
  - ALL DOORS TO BE PROVIDED AND INSTALLED BY MBM, 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"x1/2" 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.



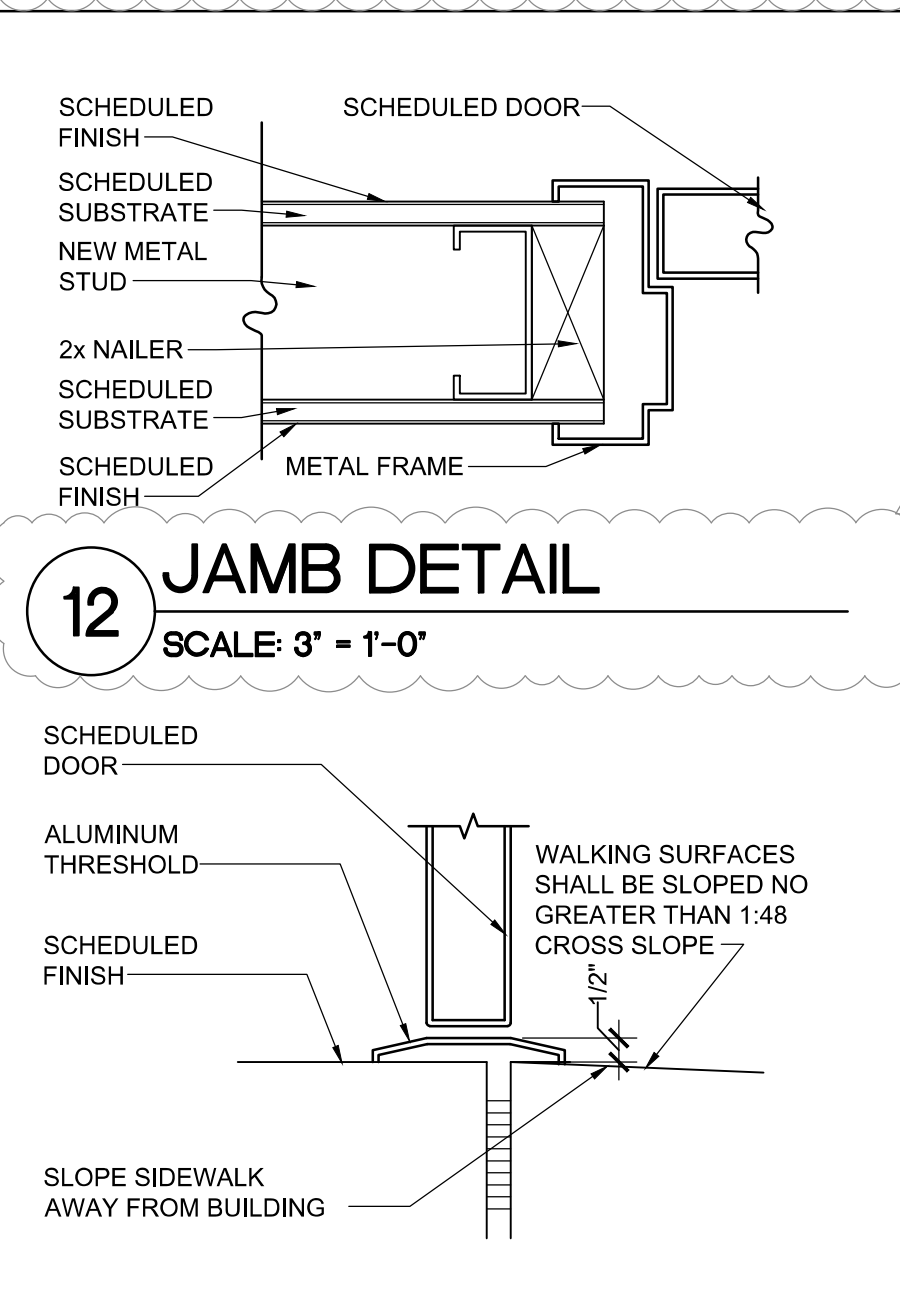
**9 BASE TRIM DETAIL**  
SCALE: 3" = 1'-0"



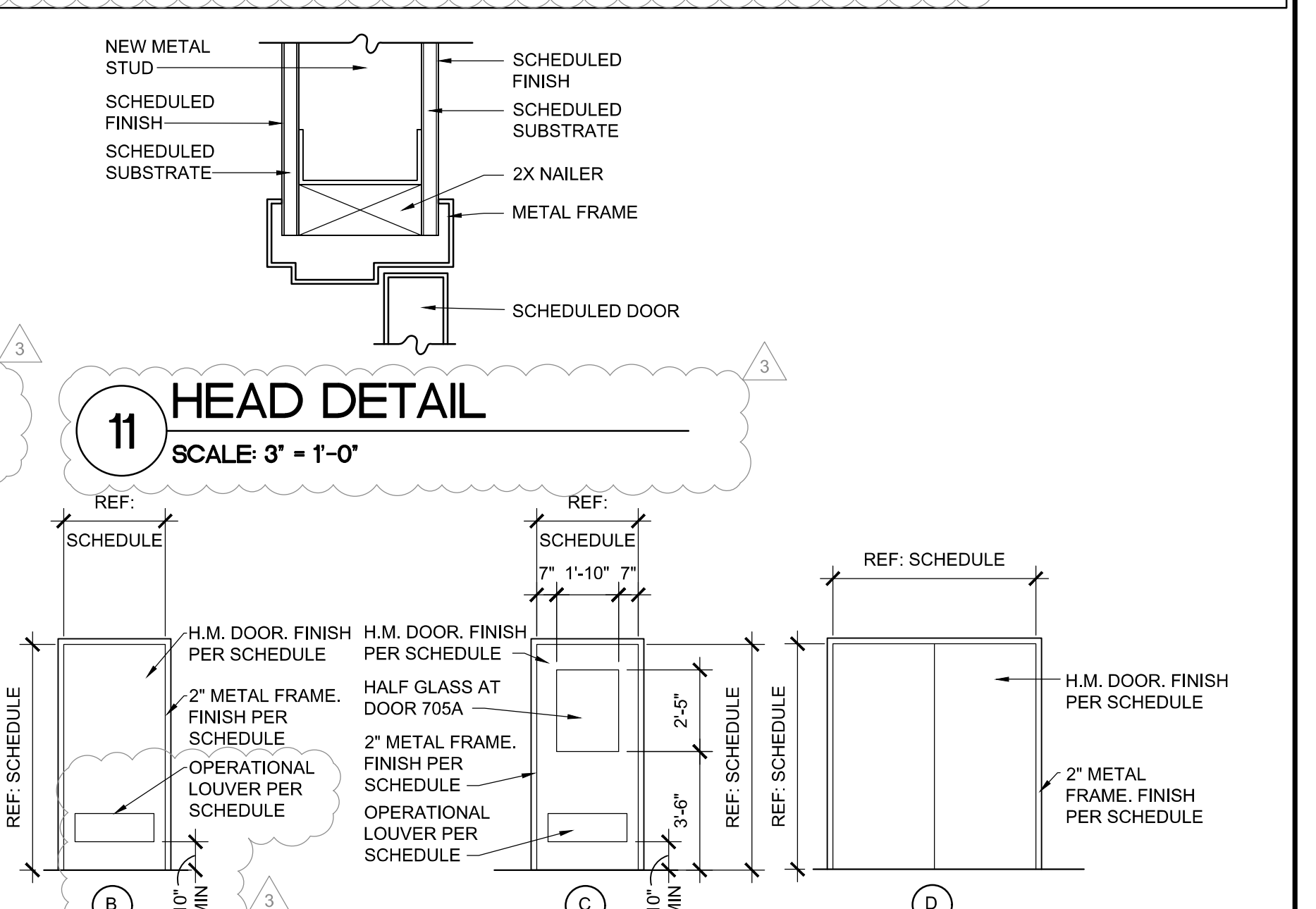
**8 PARTITION TYPE**  
SCALE: 1/2" = 1'-0"



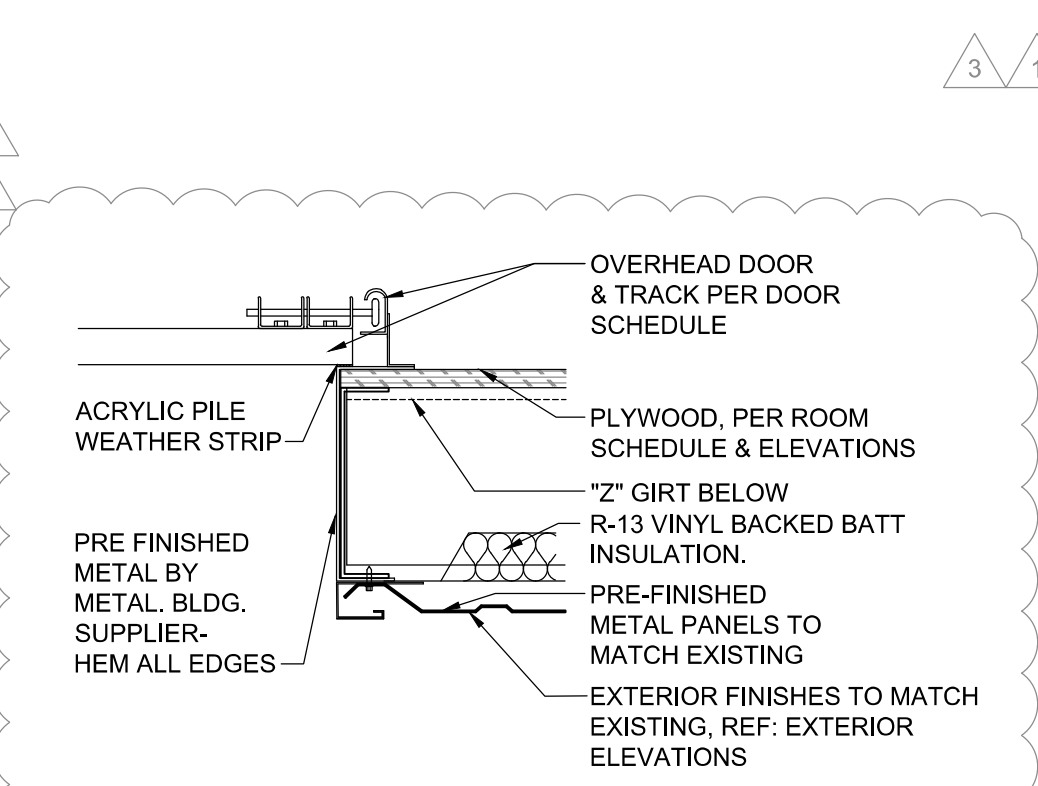
**7 OHD THRESHOLD DETAIL**  
SCALE: 1 1/2" = 1'-0"



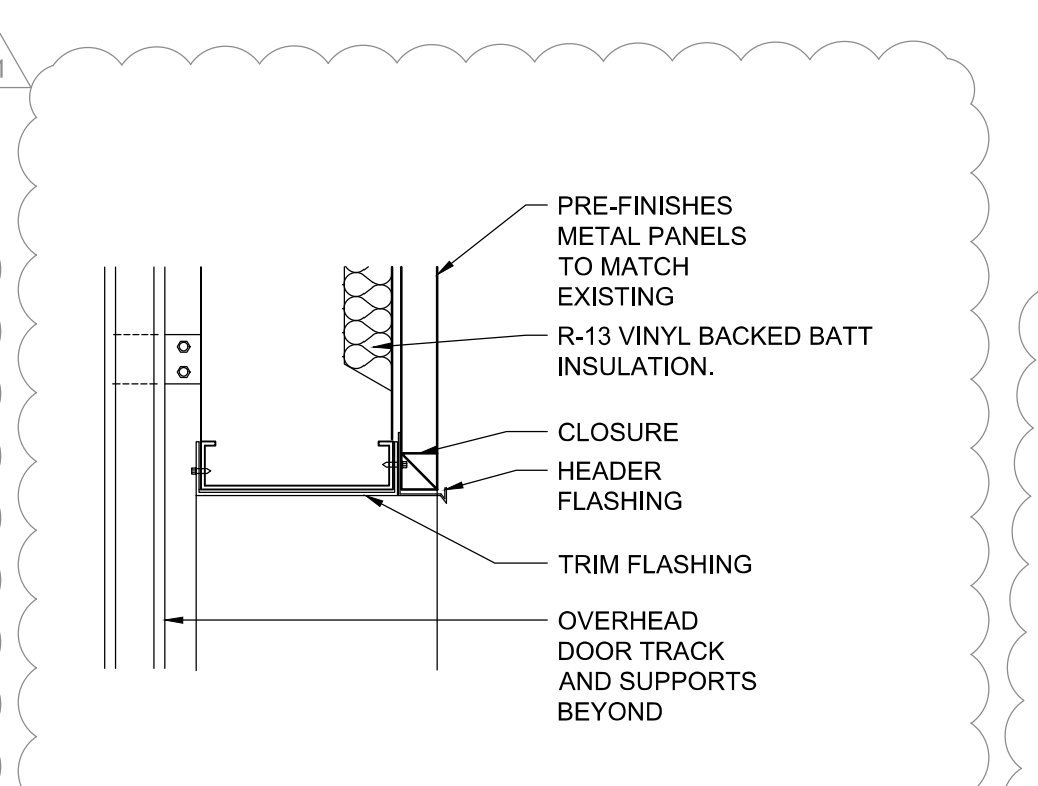
**6 THRESHOLD DETAIL**  
SCALE: 3" = 1'-0"



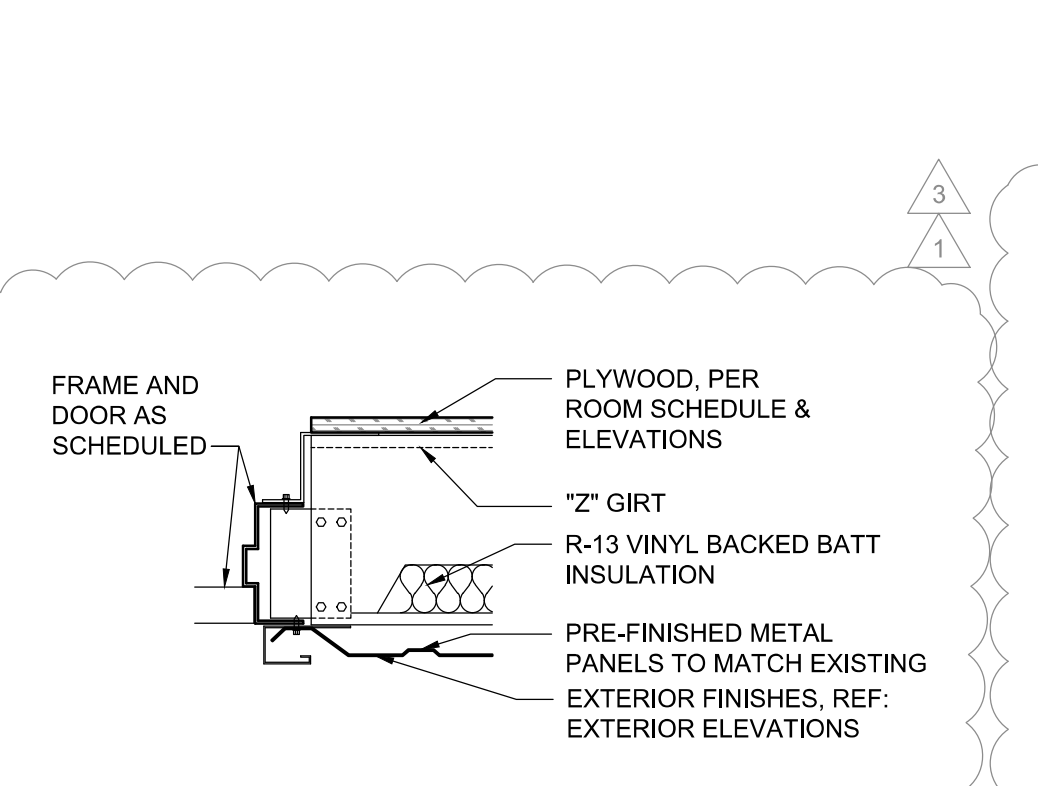
**11 HEAD DETAIL**  
SCALE: 3" = 1'-0"



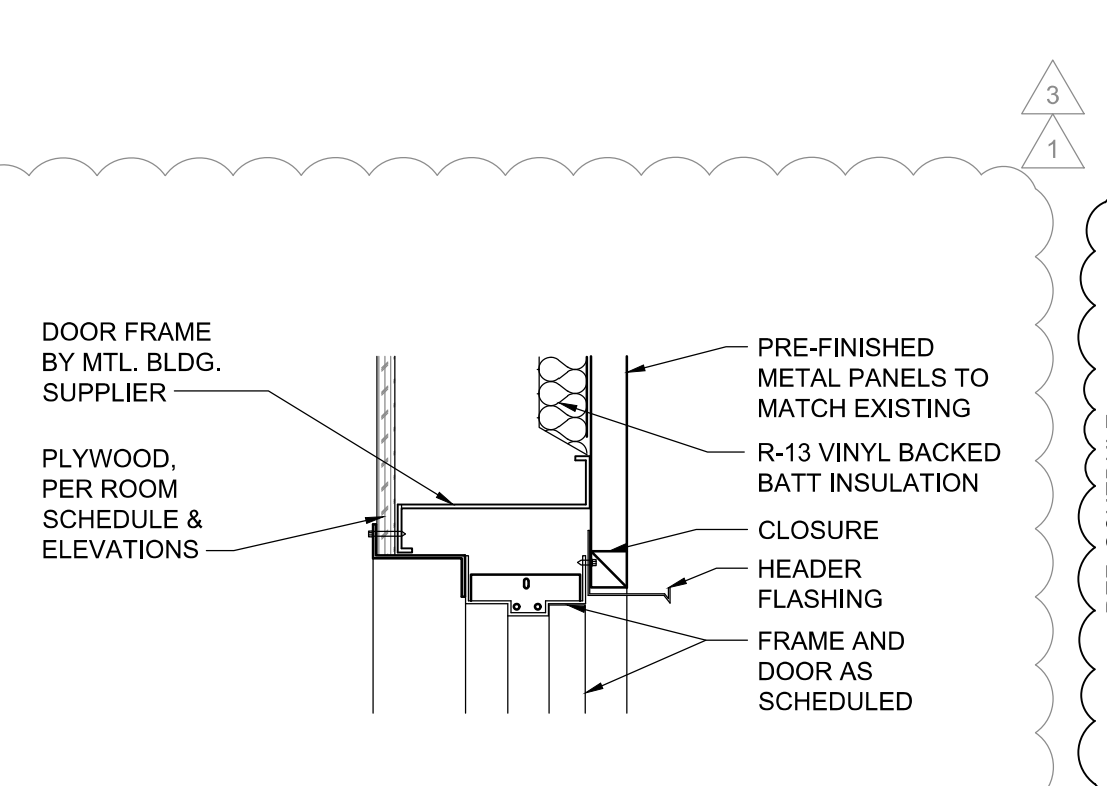
**5 OHD JAMB DETAIL**  
SCALE: 1 1/2" = 1'-0"



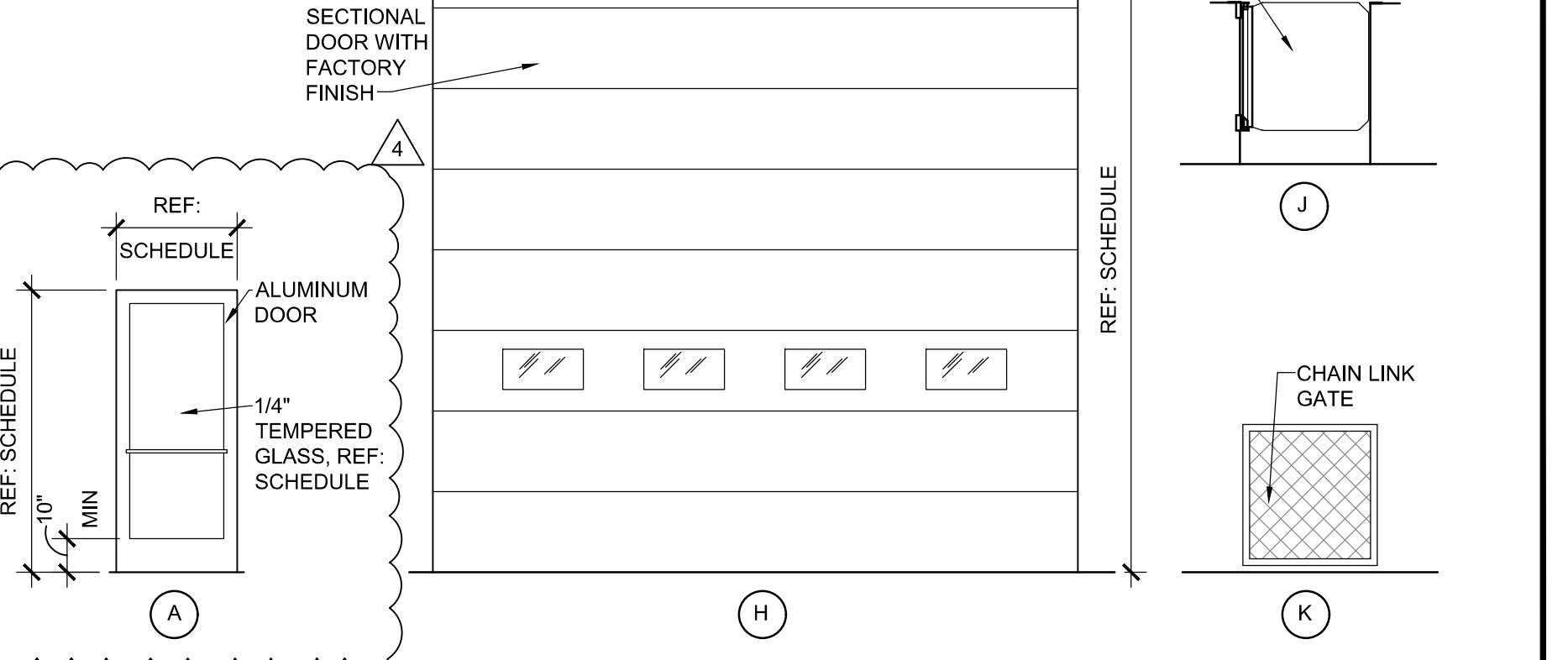
**4 OHD HEAD DETAIL**  
SCALE: 1 1/2" = 1'-0"



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



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



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

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MARSHALL, MI 49868

JOB NUMBER: 03-21-20358

**ISSUE BLOCK**

NO.	DATE	DESCRIPTION
1	07/09/21	ADD 1
2	04/01/22	ADD 2
3	09/20/22	CCD 1
4	11/04/22	CCD 2

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

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

2022.11.04  
07:10:53-0500

**DOOR SCHEDULES, ELEVATIONS & DETAILS**

SHEET: **YA6**



# WINDOW SCHEDULE

REF: 10/YA6 FOR WINDOW TYPE

MARK	SIZE	REMARKS
C	3'-0"X3'-8"	SINGLE HUNG WITH VERTICAL SLIDERS, ALUMINUM FRAME - COLOR BRONZE, THERMALLY BROKEN, PROVIDED BY AND INSTALLED BY G.C.



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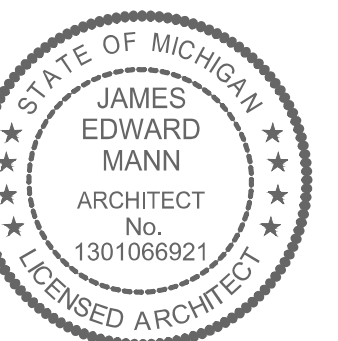
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**REMODEL**

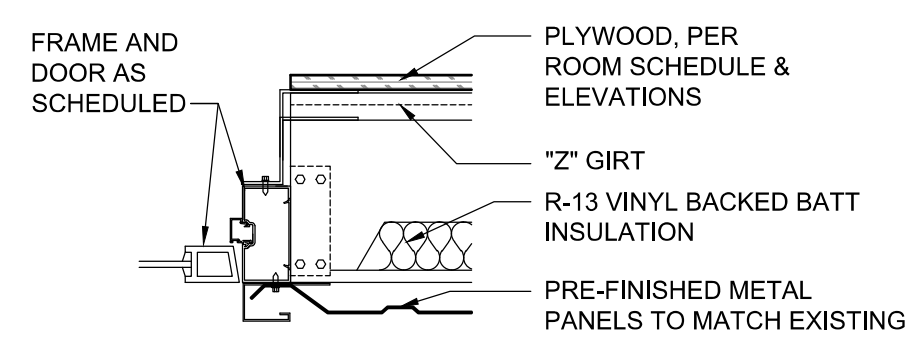
STORE NUMBER: 038  
18720 EASTLICK RD  
MARSHALL, MI 49868  
JOB NUMBER: 03-21-20336

ISSUE BLOCK		
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4	11/04/22	CCD 2

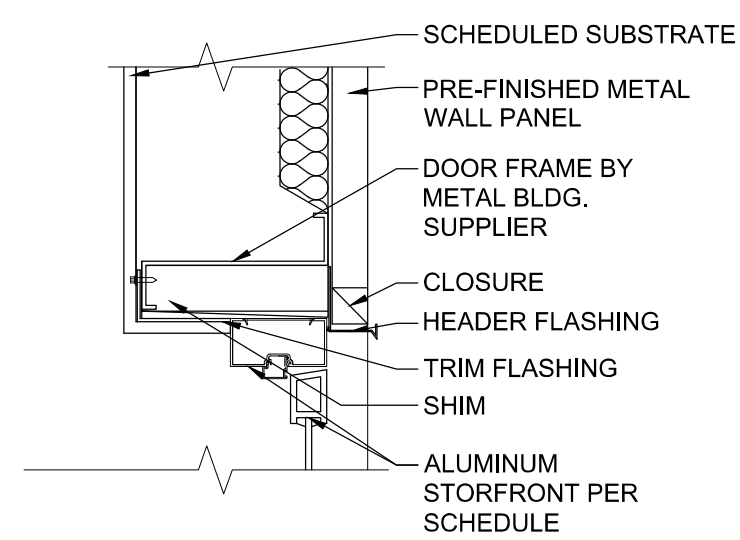
CHECKED BY: RAF  
DRAWN BY: JDH  
DOCUMENT DATE: 05/05/21



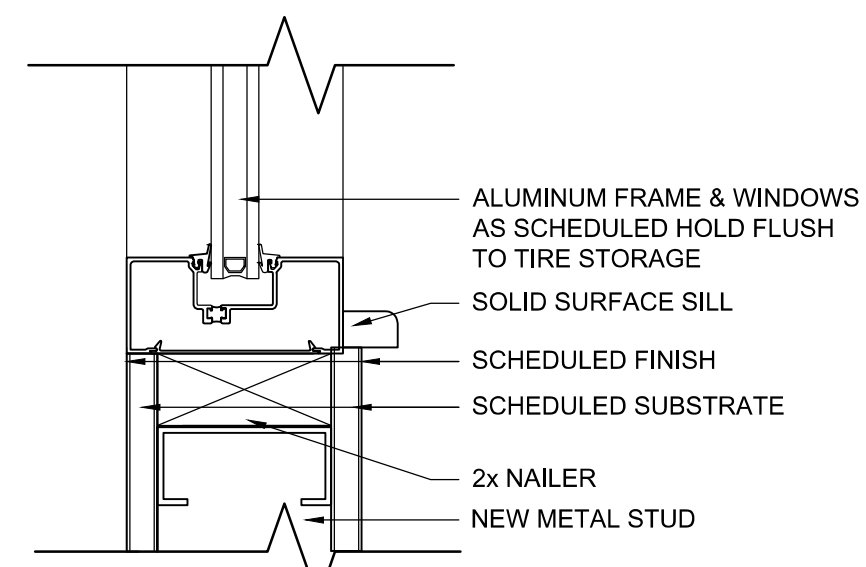
James E. Mann  
2022.11.04  
07:10:59-0500



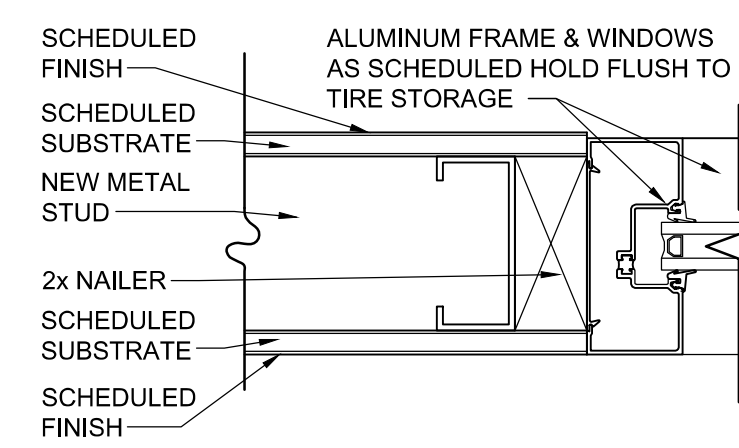
**6 JAMB DETAIL**  
SCALE: 1 1/2" = 1'-0"



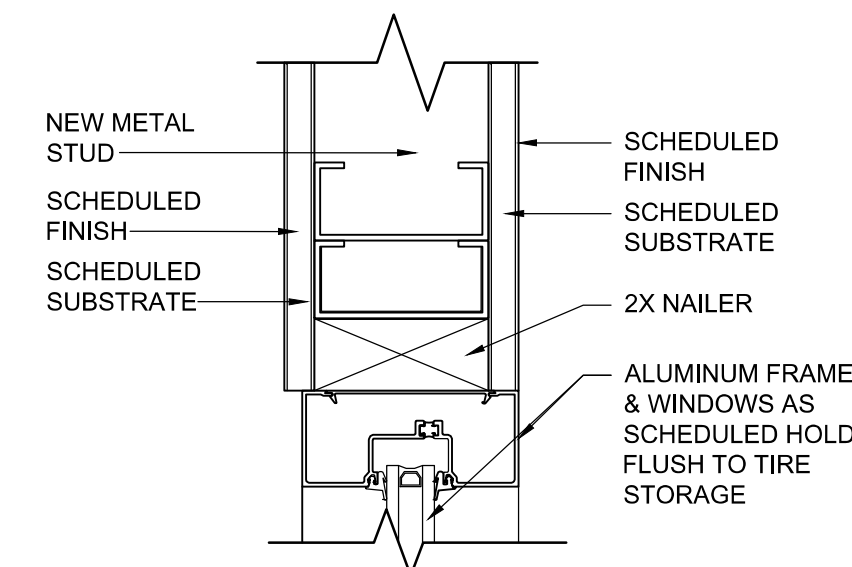
**5 HEAD DETAIL**  
SCALE: 1 1/2" = 1'-0"



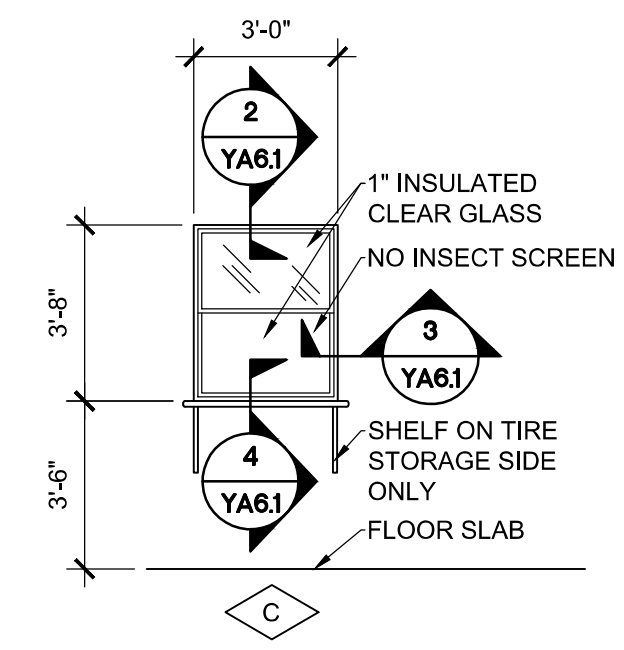
**4 WINDOW SILL**  
SCALE: 3" = 1'-0"



**3 WINDOW JAMB**  
SCALE: 3" = 1'-0"



**2 WINDOW HEAD**  
SCALE: 3" = 1'-0"



**1 WINDOW ELEVATIONS**  
SCALE: 1/4" = 1'-0"

WINDOW SCHEDULE, ELEVATIONS & DETAILS

SHEET: YA6.1

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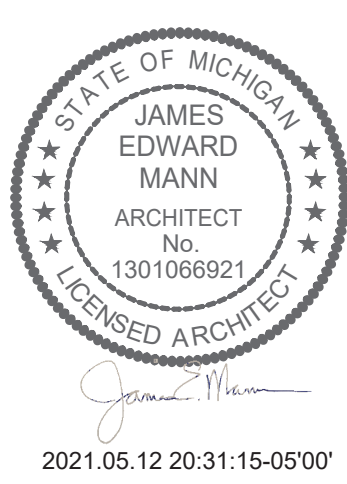
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18720 BARTLETT RD  
MARSHALL, MI 49068

JOB NUMBER: 03-21-20336

**ISSUE BLOCK**

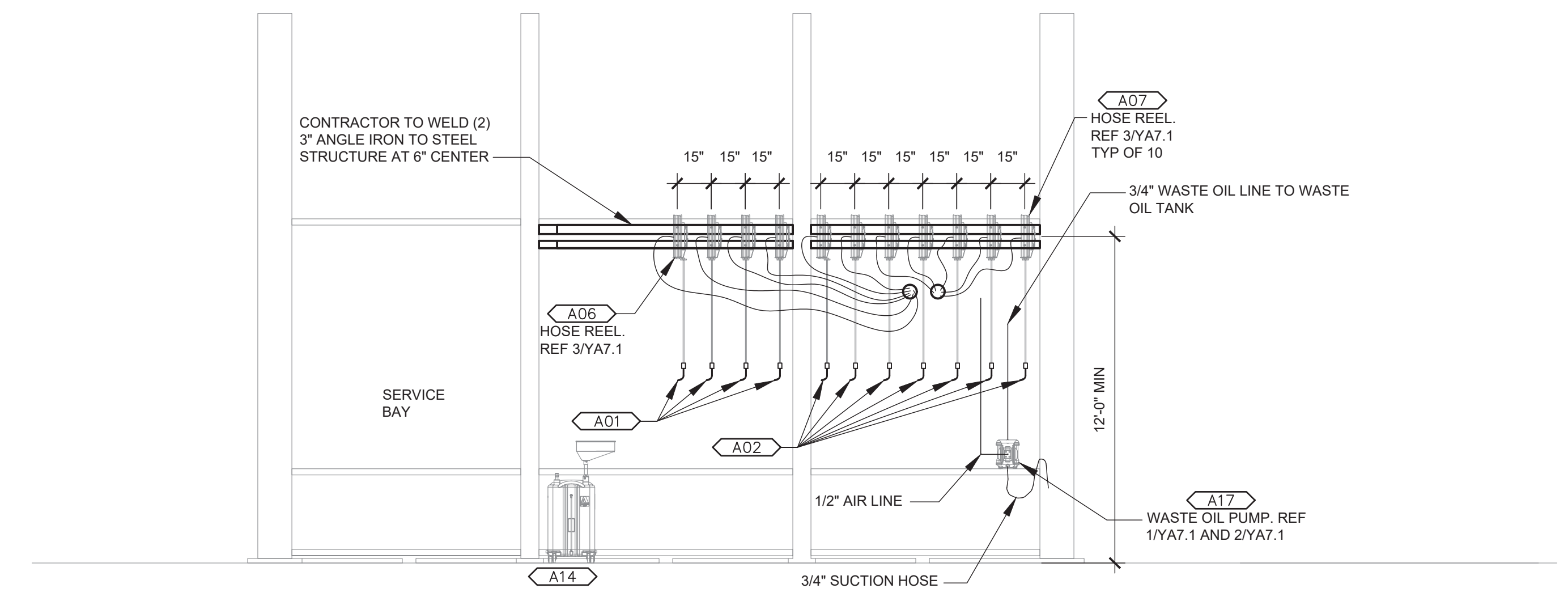
NO.	DATE	DESCRIPTION

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

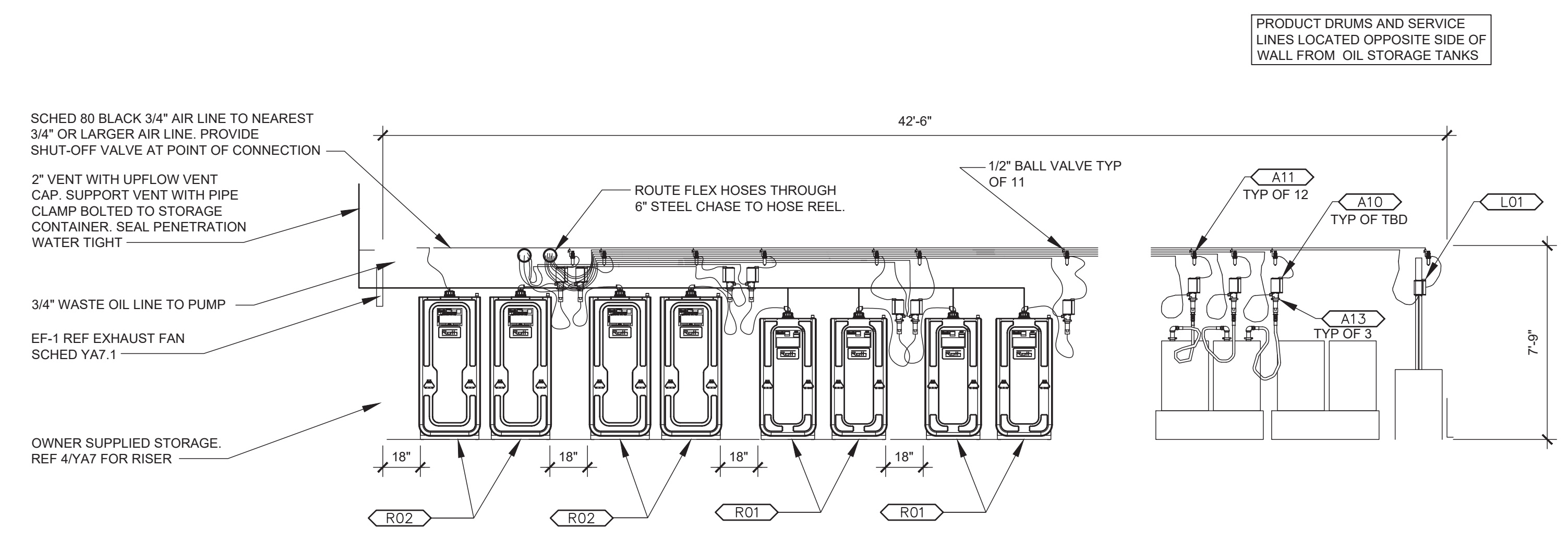


**TANK ELEVATIONS**

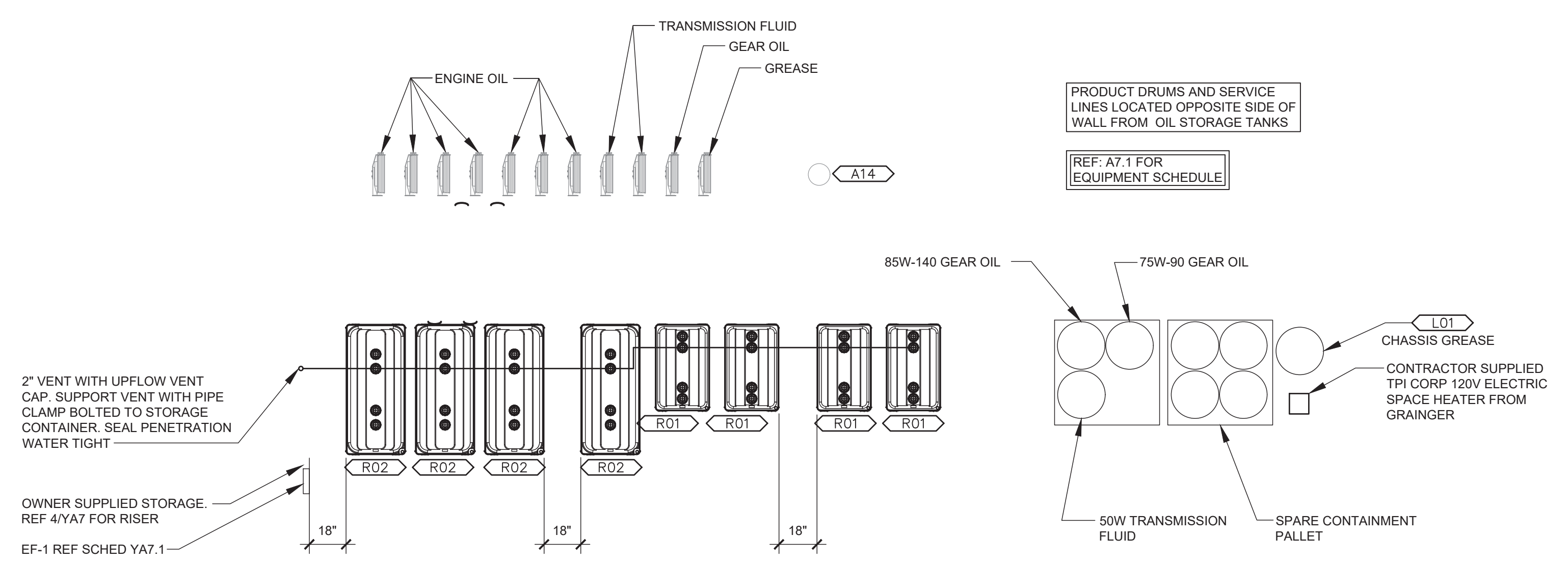
SHEET: **YA7**



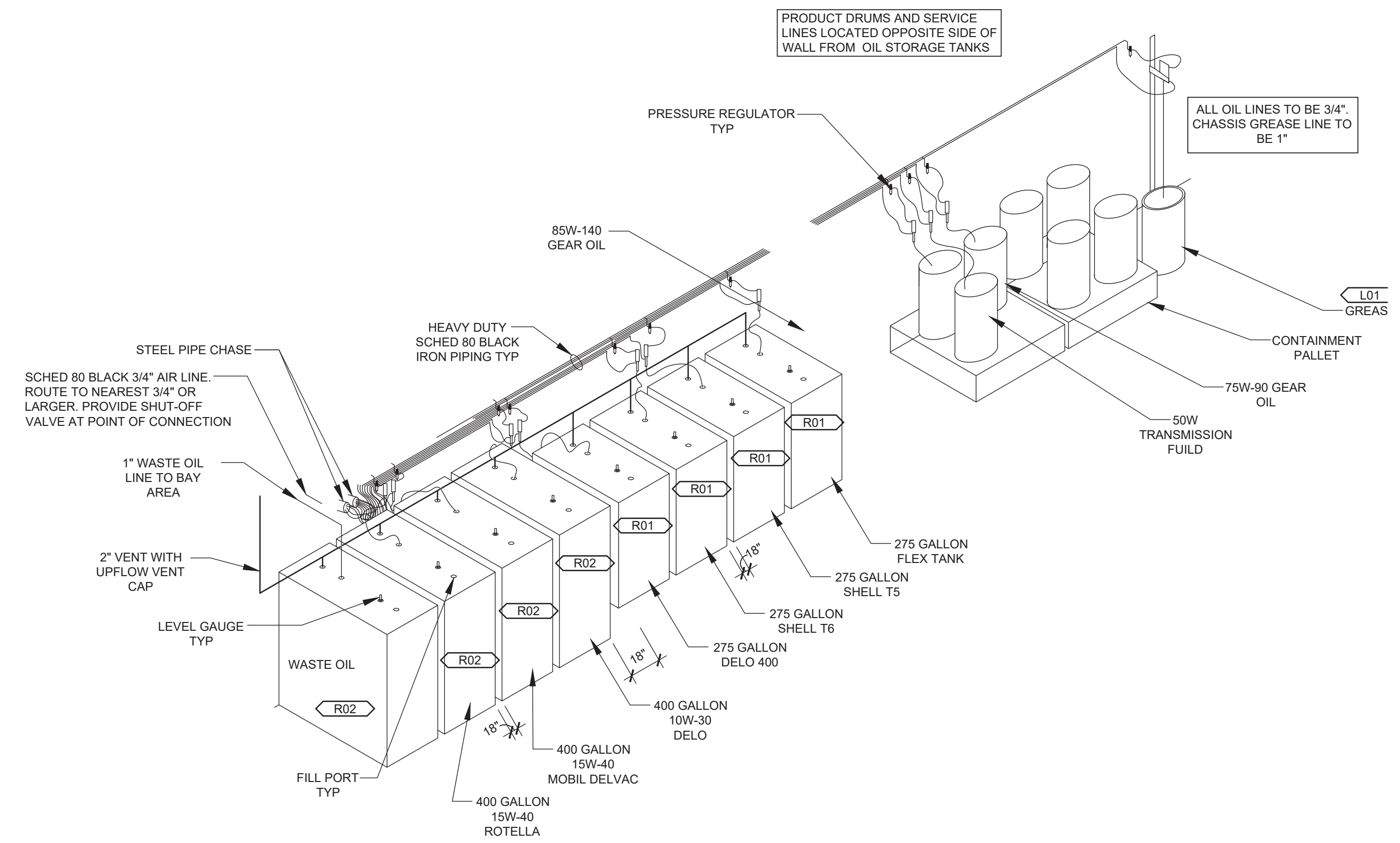
**3 HOSE REEL ELEVATION (INSIDE SERVICE BAY)**  
SCALE: 1/4" = 1'-0"



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



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



**4 STORAGE RISER**  
SCALE: NTS

May 12, 2021 15:07pm - User: jfleming  
E:\31024-1507pm - User: jfleming\Architectural\160 747 TANK ELEVATIONS.dwg

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

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MARSHALL, MI 49068

JOB NUMBER: 03-21-20336

ISSUE BLOCK

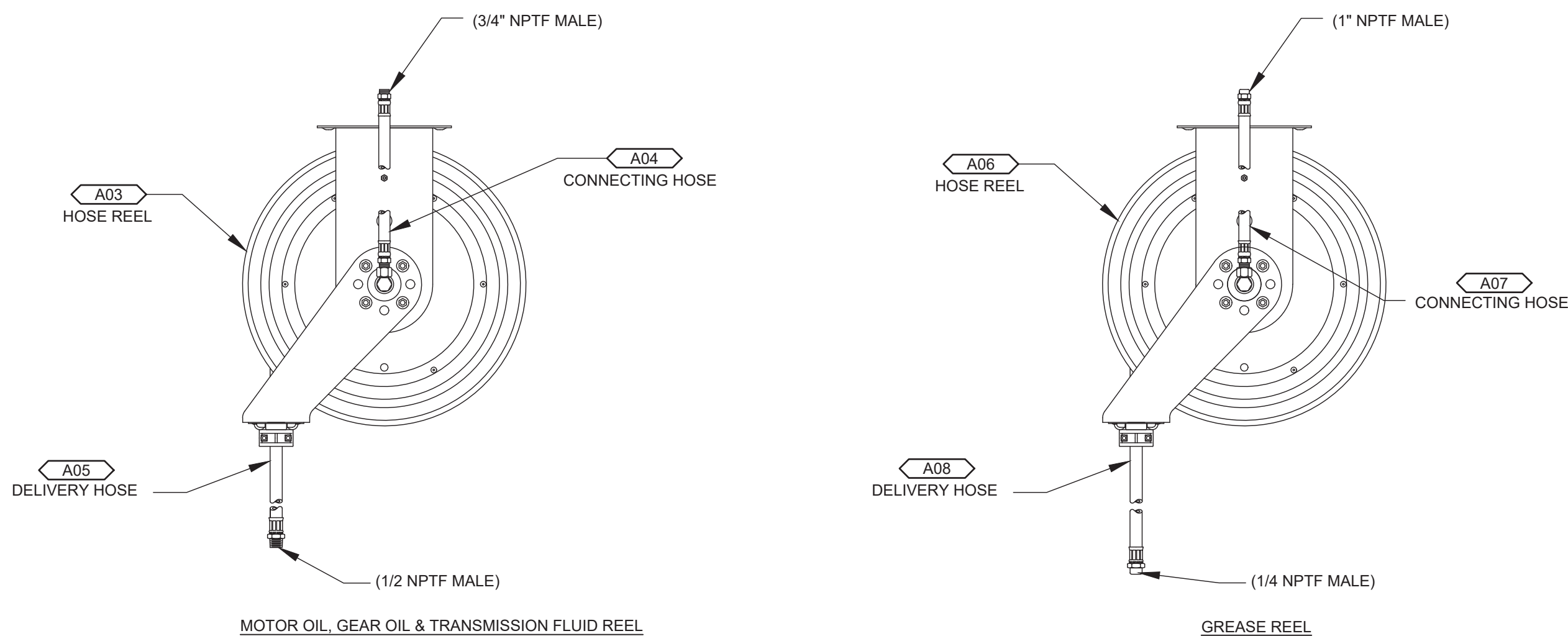

CHECKED BY: RAF  
DRAWN BY: JDH  
DOCUMENT DATE: 05/05/21

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

2021.05.12 20:31:20-0500'

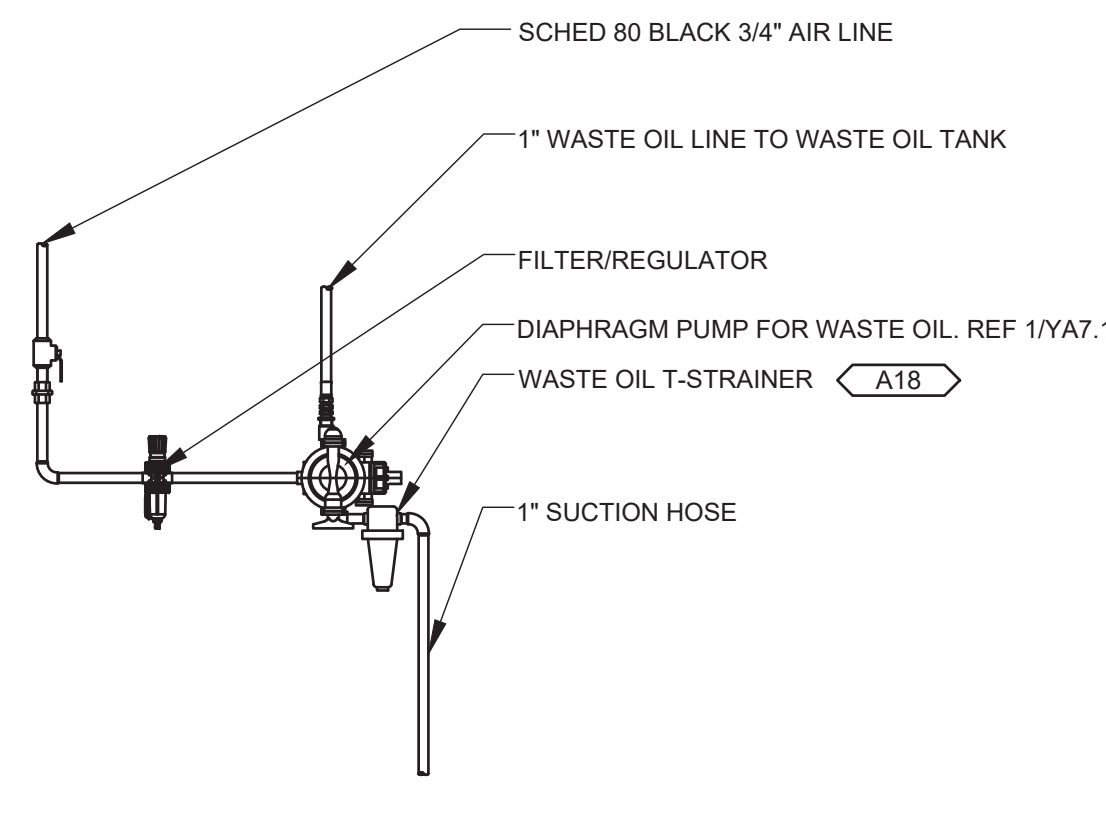
TANK DETAILS & SCHEDULES

SHEET: YA7.1



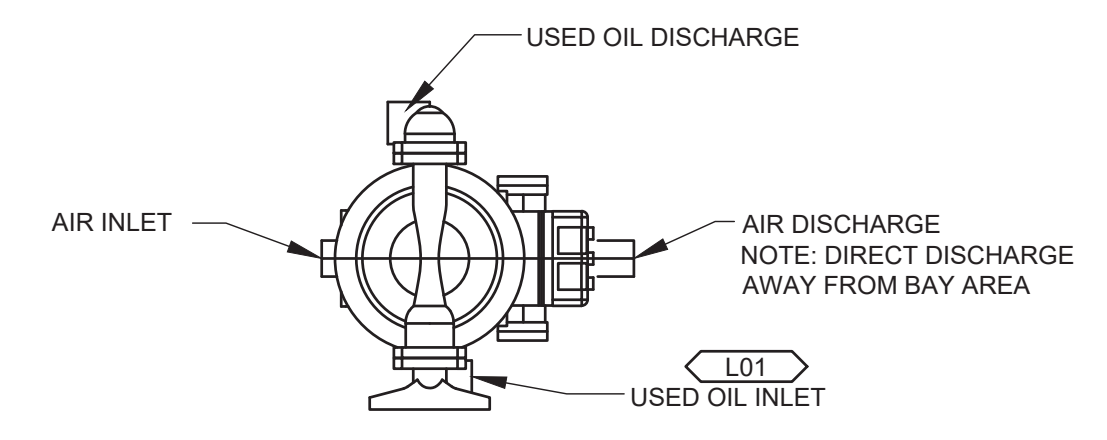
### 3 HOSE REELS

SCALE: NTS



### 2 DIAPHRAGM PUMP PIPING PLAN

SCALE: NTS

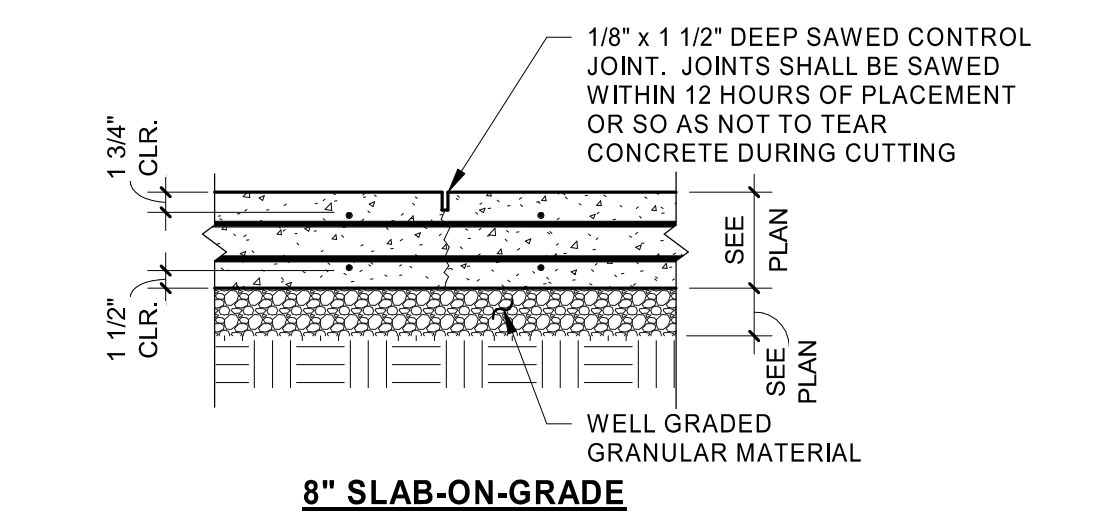
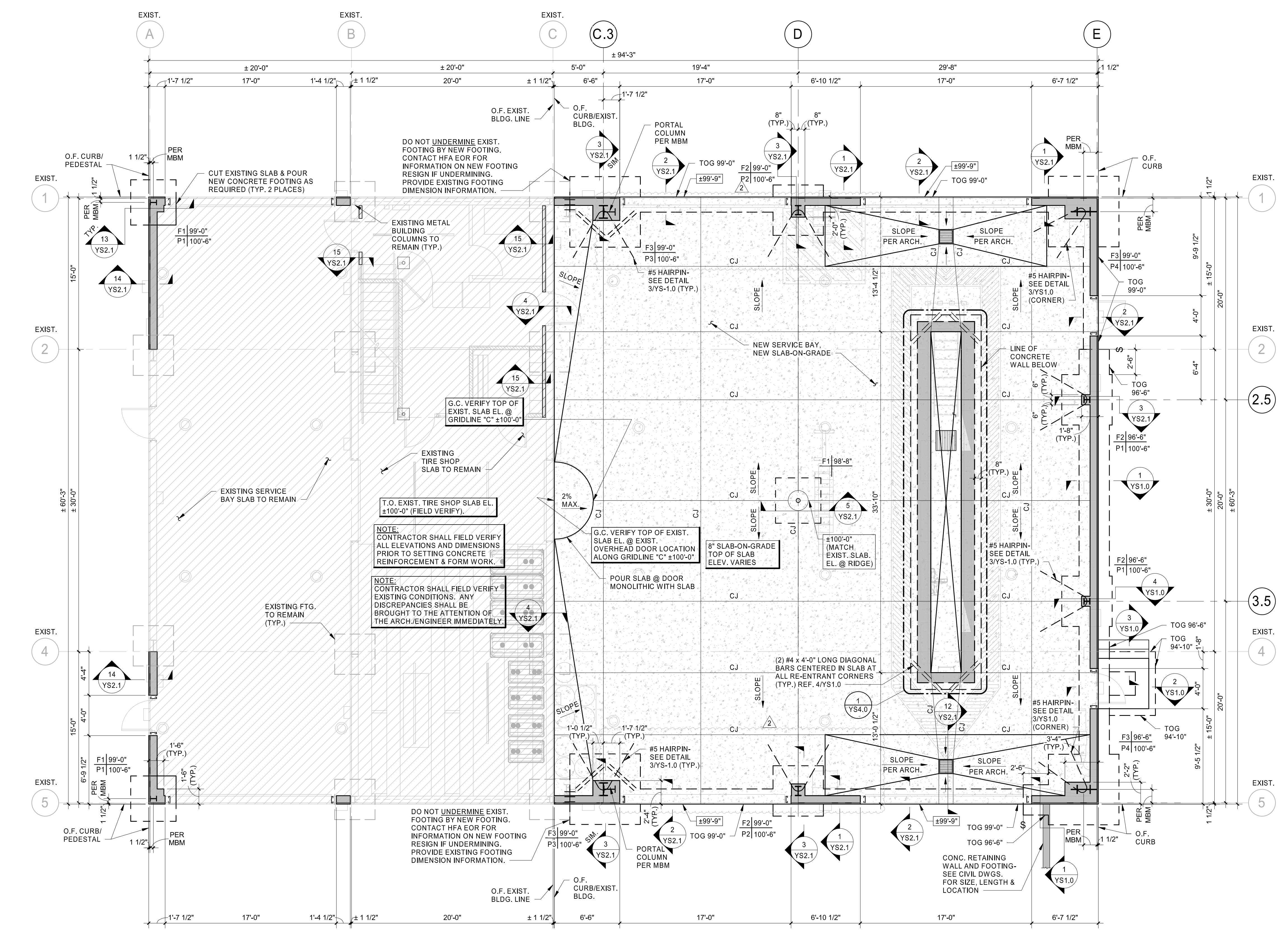


### 1 DIAPHRAGM PUMP DETAIL

SCALE: NTS



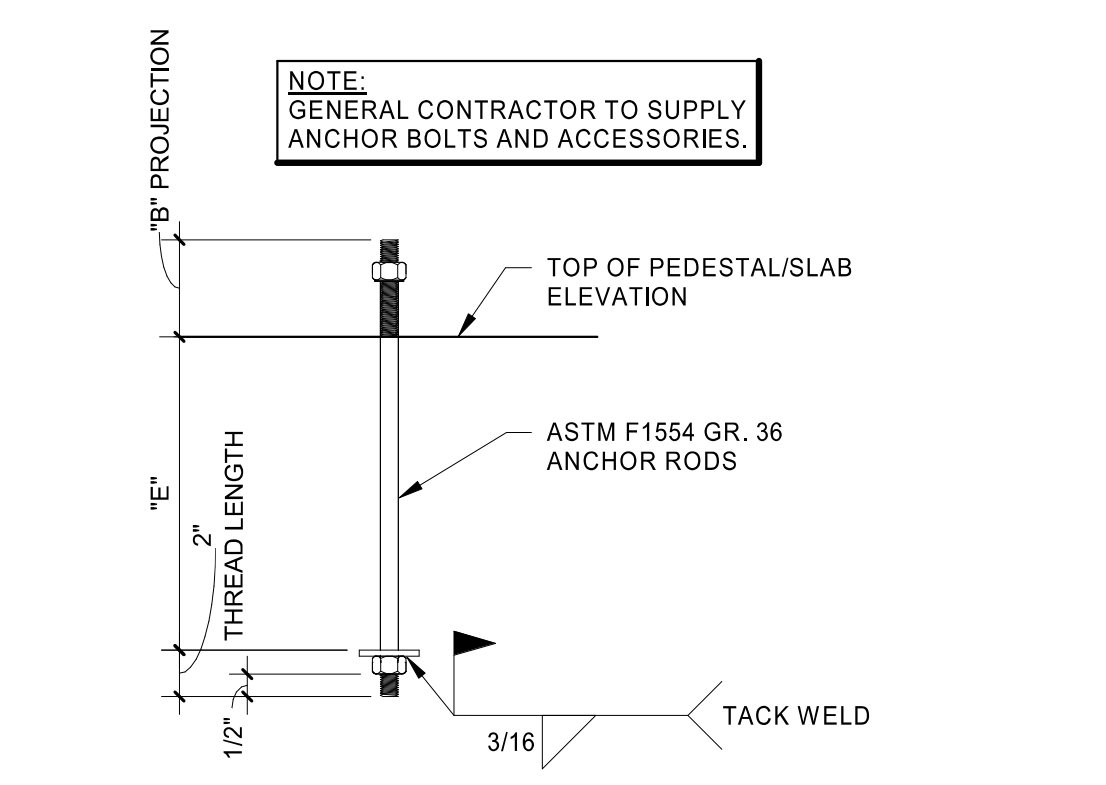




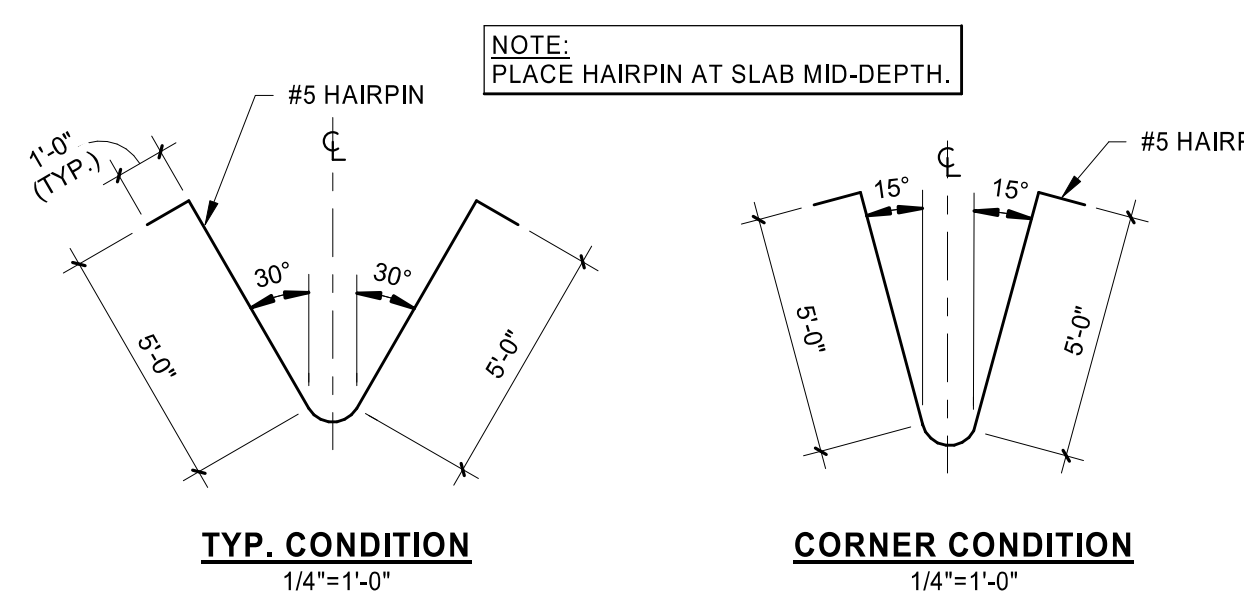
**4 TYP. SLAB-ON-GRADE CONTROL JOINT DTL.**  
3/4" = 1'-0"

**METAL BLDG. ANCHOR BOLT SCHEDULE**

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



**3 TYP. ANCHOR ROD DETAIL**  
1 1/2" = 1'-0"



**2 TYP. HAIRPIN DETAILS**  
NOT TO SCALE

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

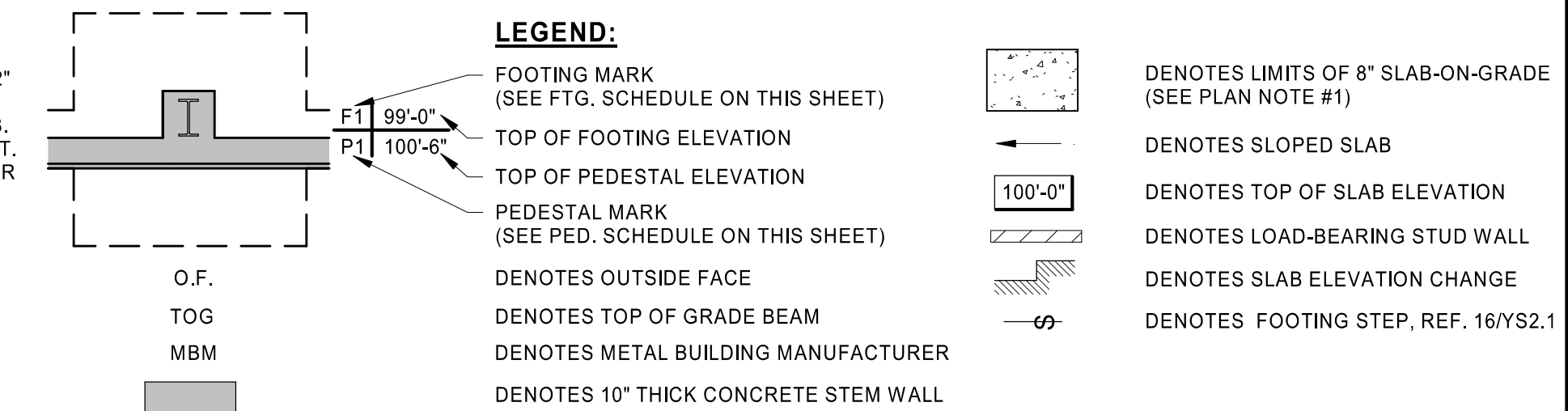
**FOOTING SCHEDULE**

FOOTING MARK	FOOTING SIZE B x L x t	REINFORCING	REMARKS
F1	4'-6" x 4'-6" x 2'-0"	(5) #5 EA. WAY TOP & BOTTOM	----
F2	5'-0" x 5'-0" x 3'-0"	(6) 6 EA. WAY TOP & BOTTOM	----
F3	7'-0" x 7'-0" x 3'-0"	(8) 6 EA. WAY TOP & BOTTOM	----

**PEDESTAL SCHEDULE**

PEDESTAL MARK	PEDESTAL SIZE WIDTH x LENGTH	VERTICAL DOWELS	TIES	REMARKS
P1	12" x 20"	(6) #6 DOWELS	#3 TIES @ 10" o.c.; (3) TIES MIN.	SEE NOTE #1
P2	16" x 24"	(6) #6 DOWELS	#3 TIES @ 10" o.c.; (3) TIES MIN.	SEE NOTE #1
P3	28" x 32"	(8) #6 DOWELS	#3 TIES @ 10" o.c.; (3) TIES MIN.	SEE NOTE #1
P4	26" x 40"	(10) #6 DOWELS	#3 TIES @ 10" o.c.; (3) TIES MIN.	SEE NOTE #1

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

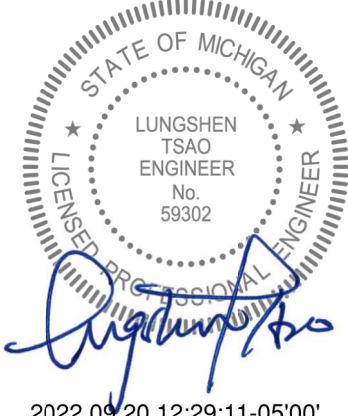


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JOB NUMBER: 03-21-20336

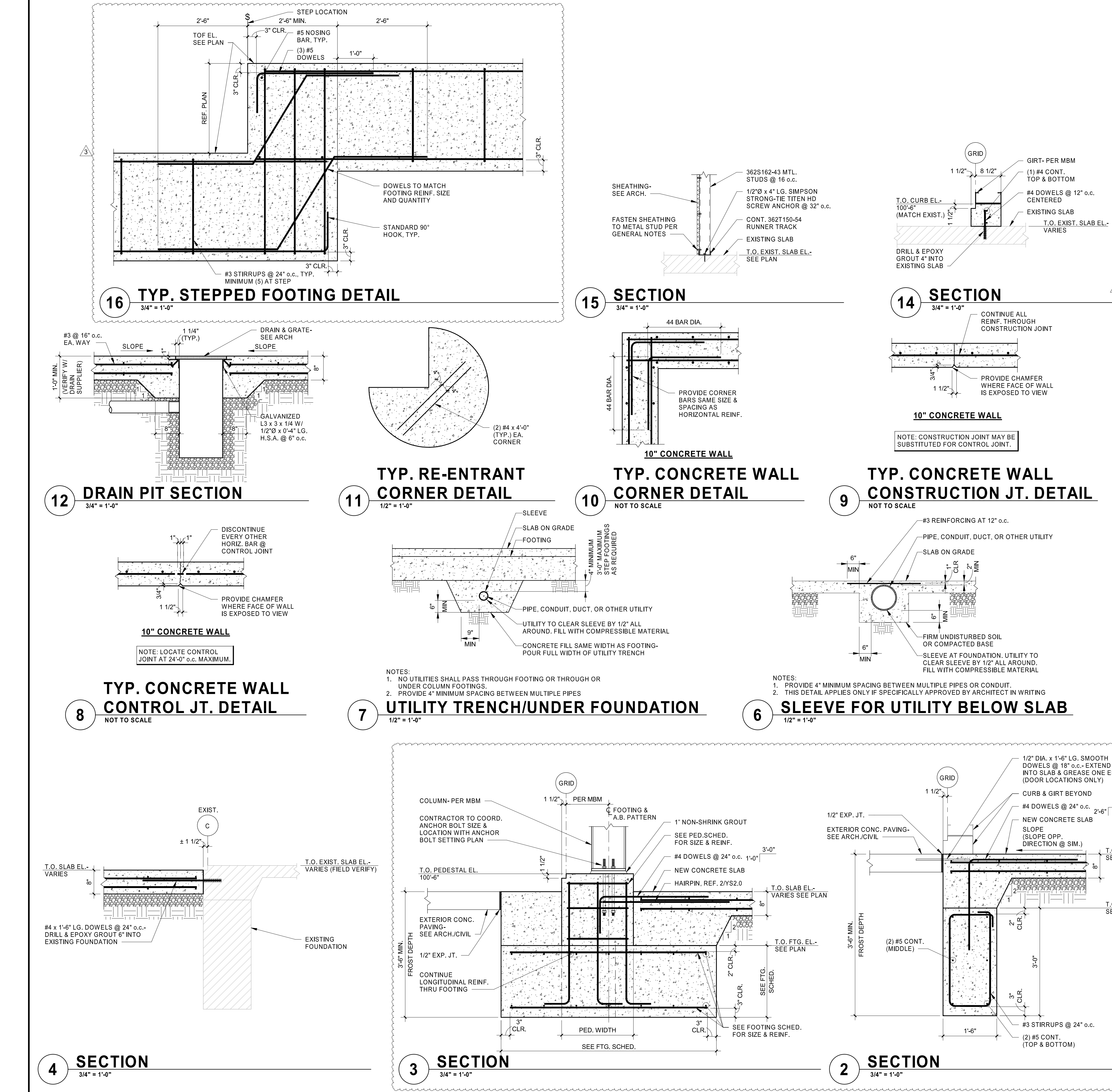
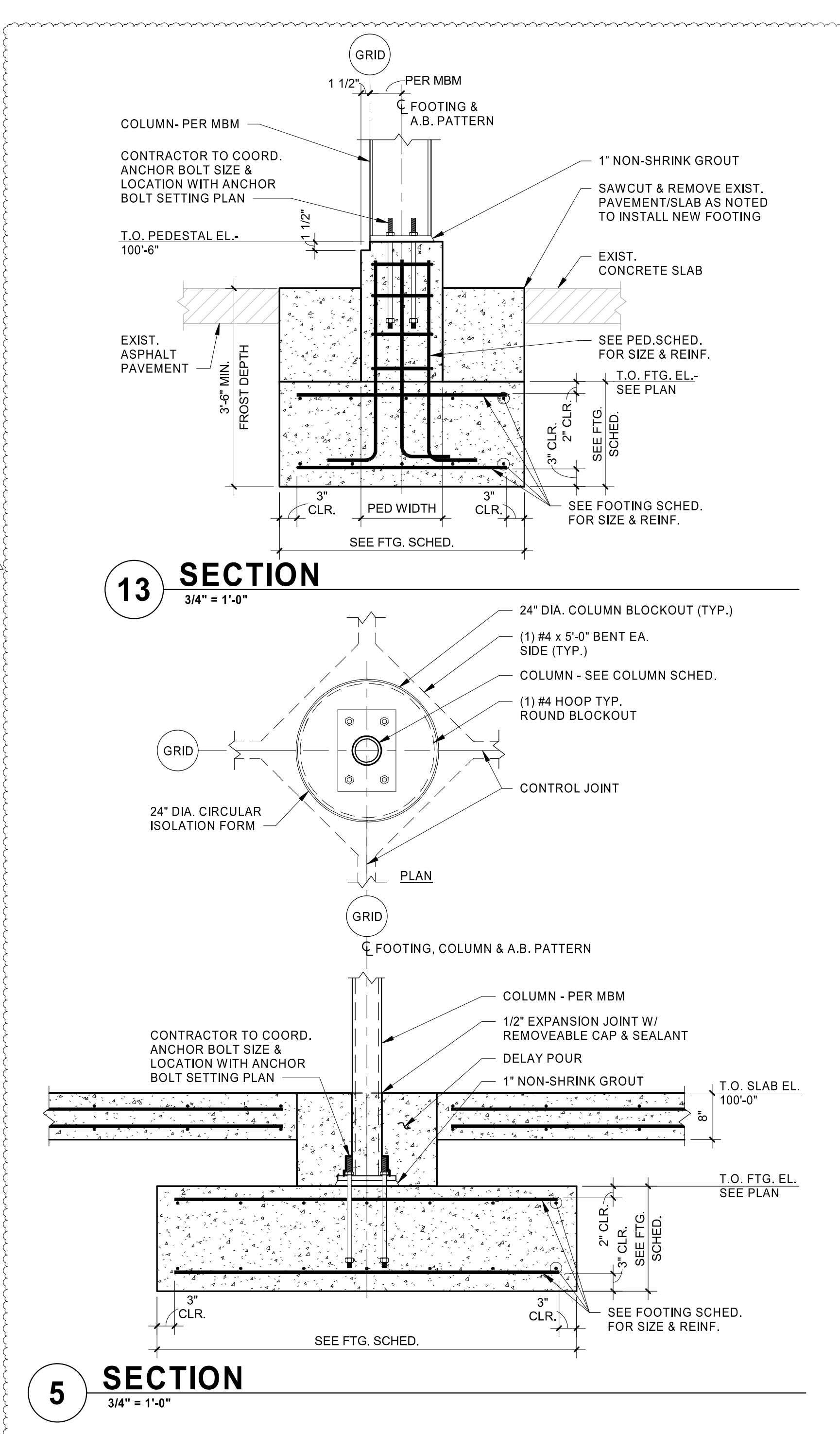
ISSUE BLOCK		
1	07/09/21	ADD 1
3	09/20/22	CCD 1

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



2022.09.20 12:29:11-0500'

**FOUNDATION DETAILS**



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18720 PARTELLO RD  
MARSHALL, MI 49063  
JOB NUMBER: 03-21-20336

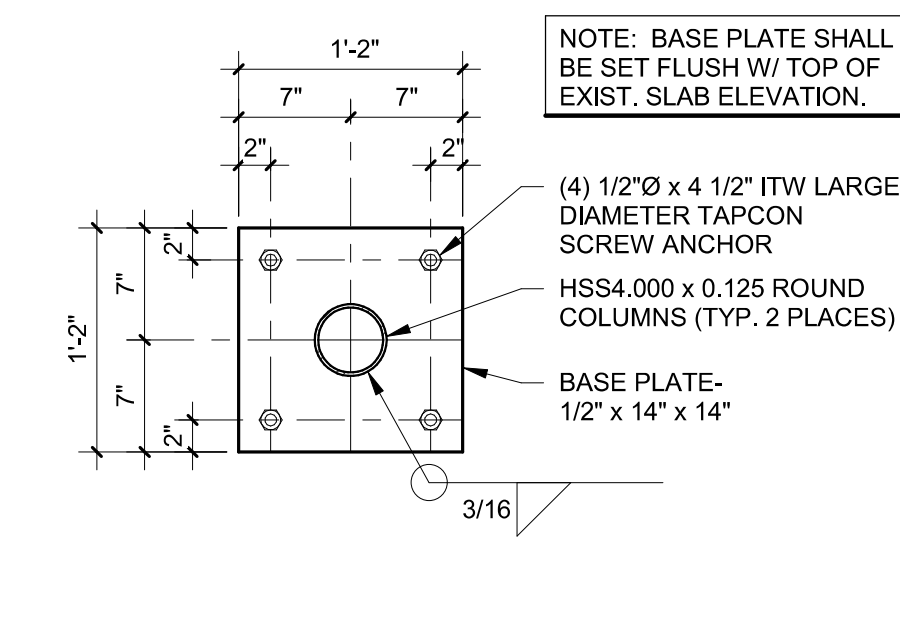
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CHECKED BY: LST  
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DOCUMENT DATE: 05/05/21

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

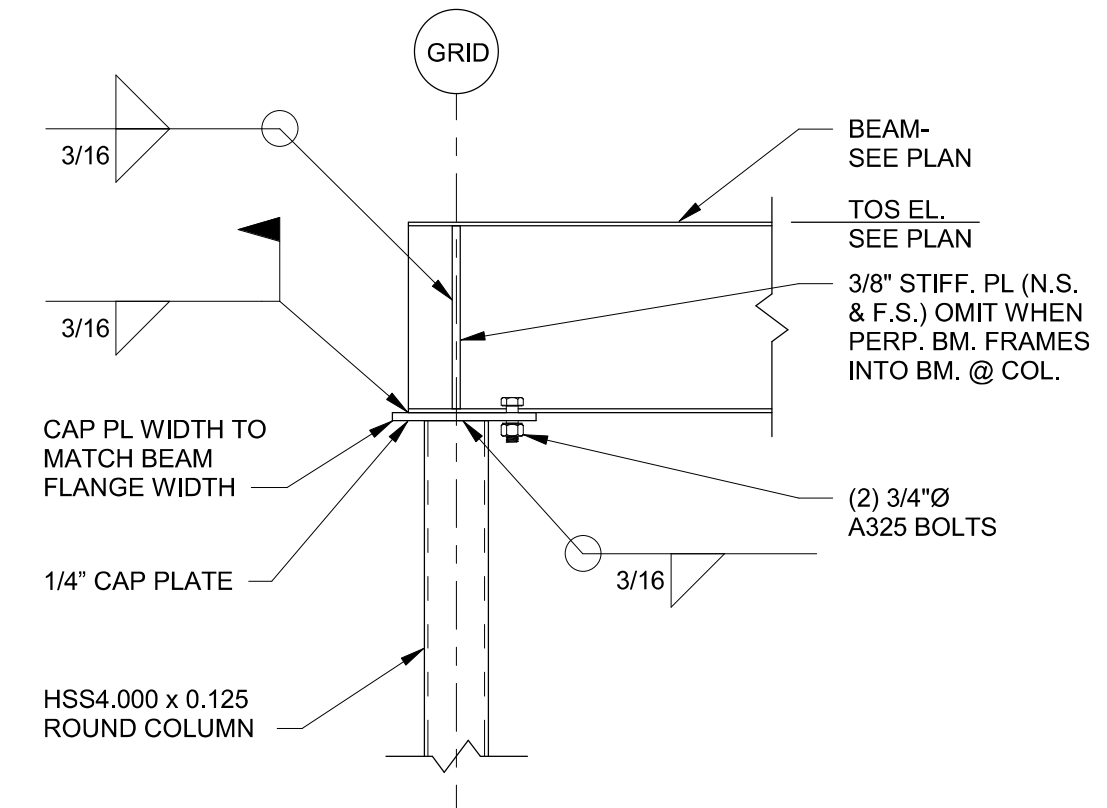
**MEZZANINE FRAMING PLAN & MEZZANINE FRAMING DETAILS**

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

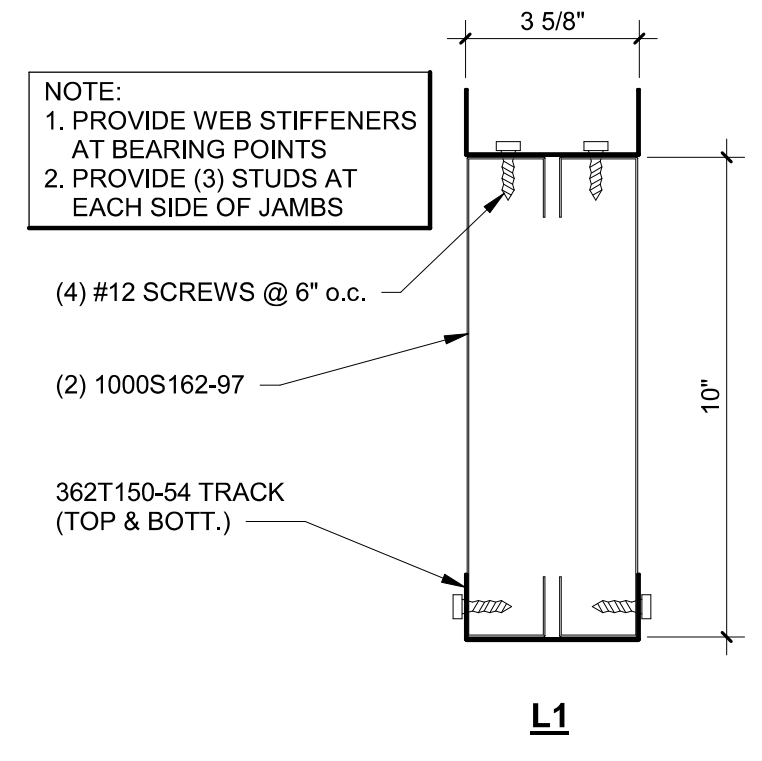


**7 TYP. BASE PLATE DETAIL**  
NOT TO SCALE

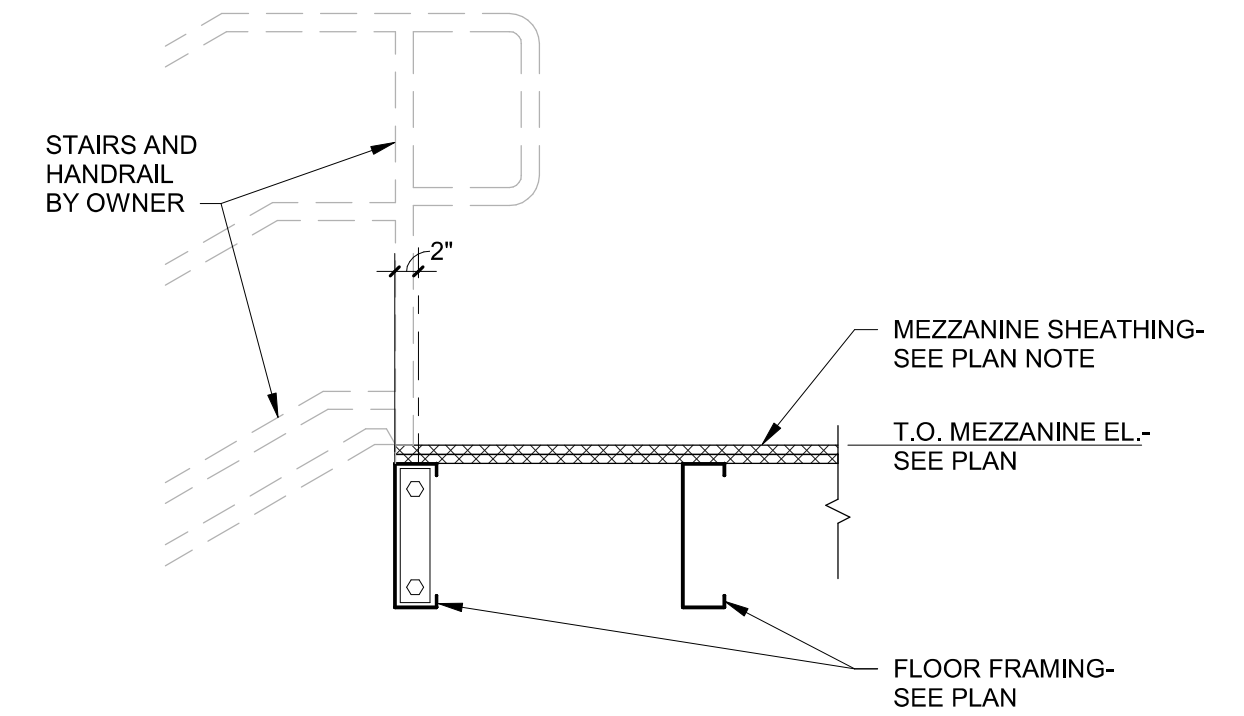
**8 TYP. CAP PLATE DETAIL**  
NOT TO SCALE



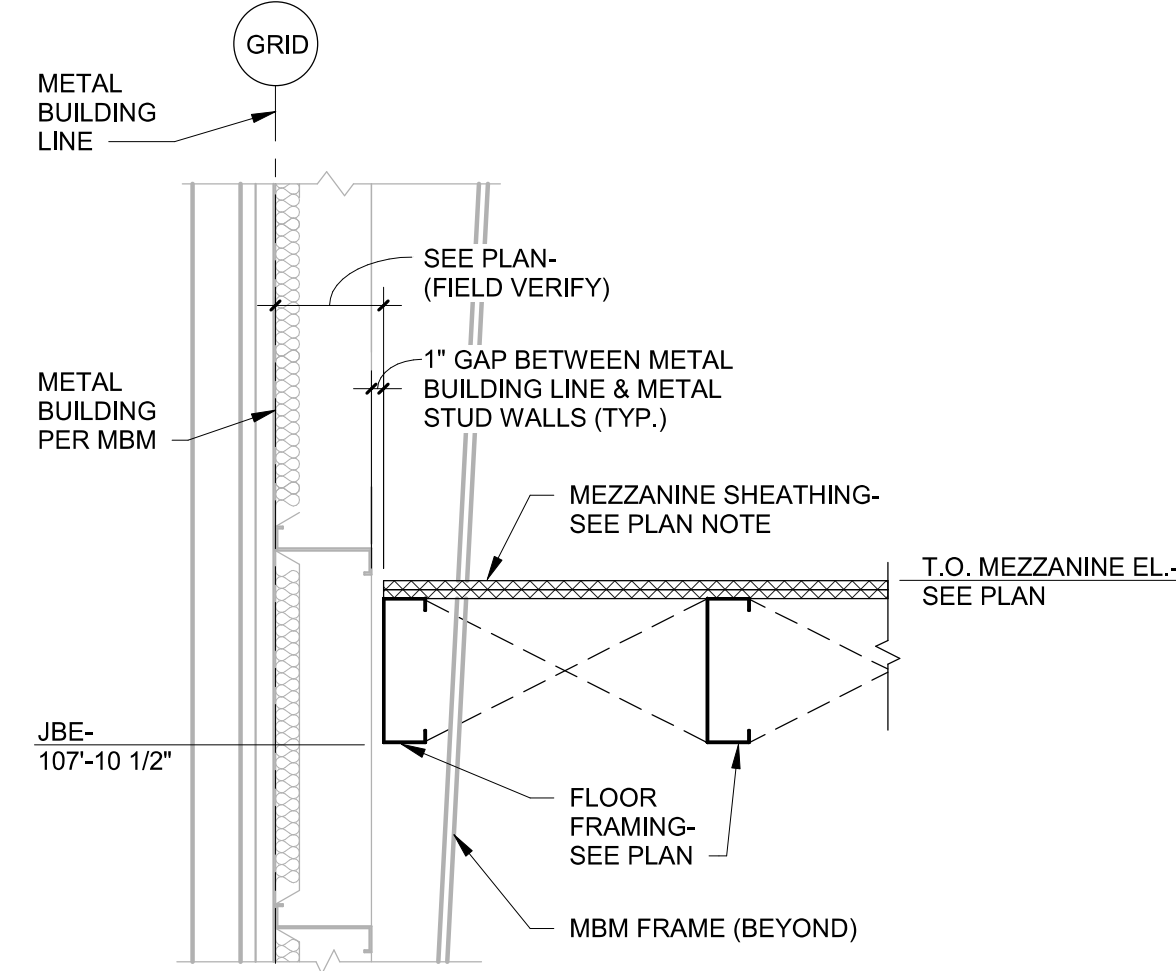
**9 TYP. MTL. STUD BOX LINTEL DETAIL**  
NOT TO SCALE



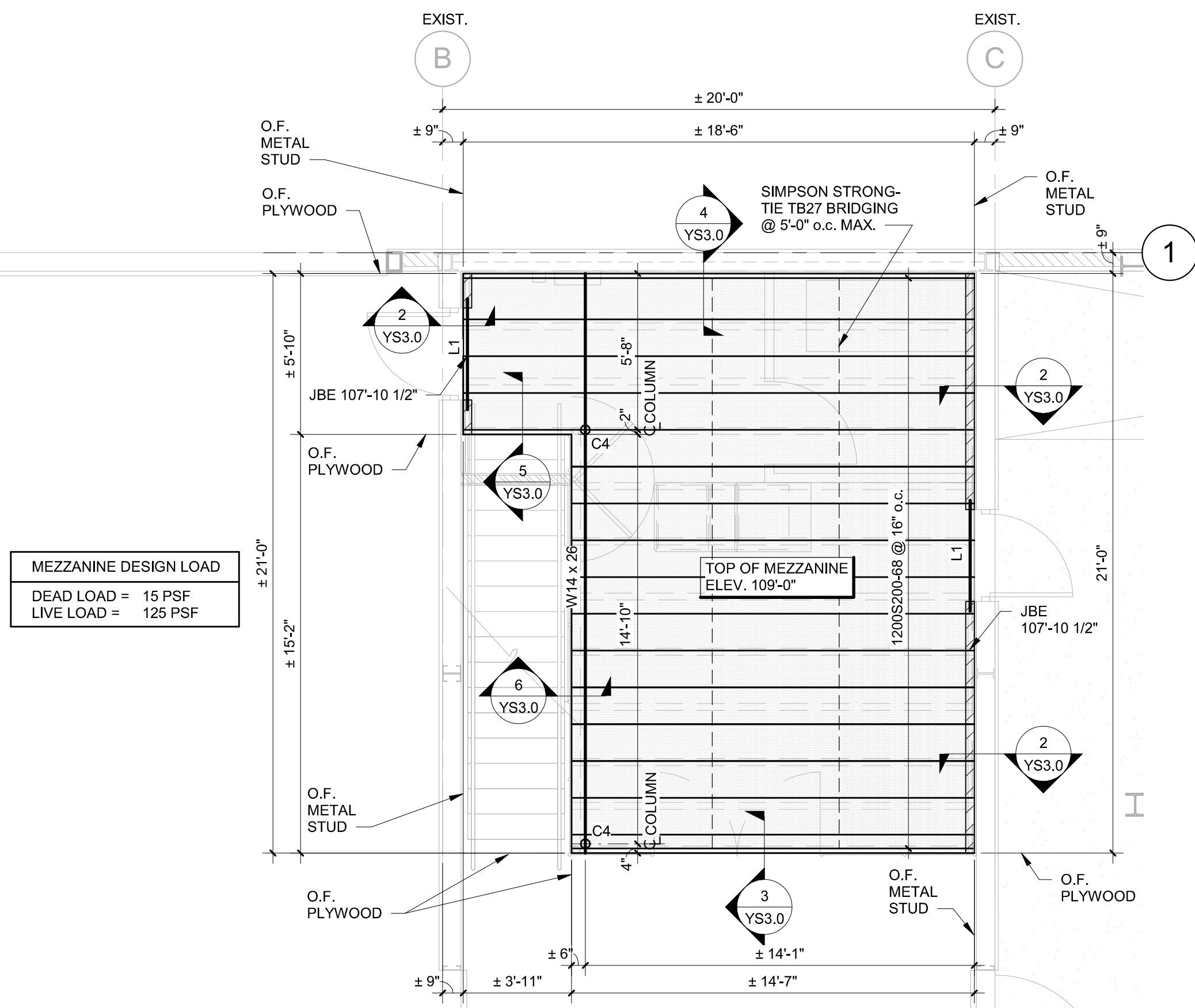
**5 SECTION**  
3/4" = 1'-0"



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



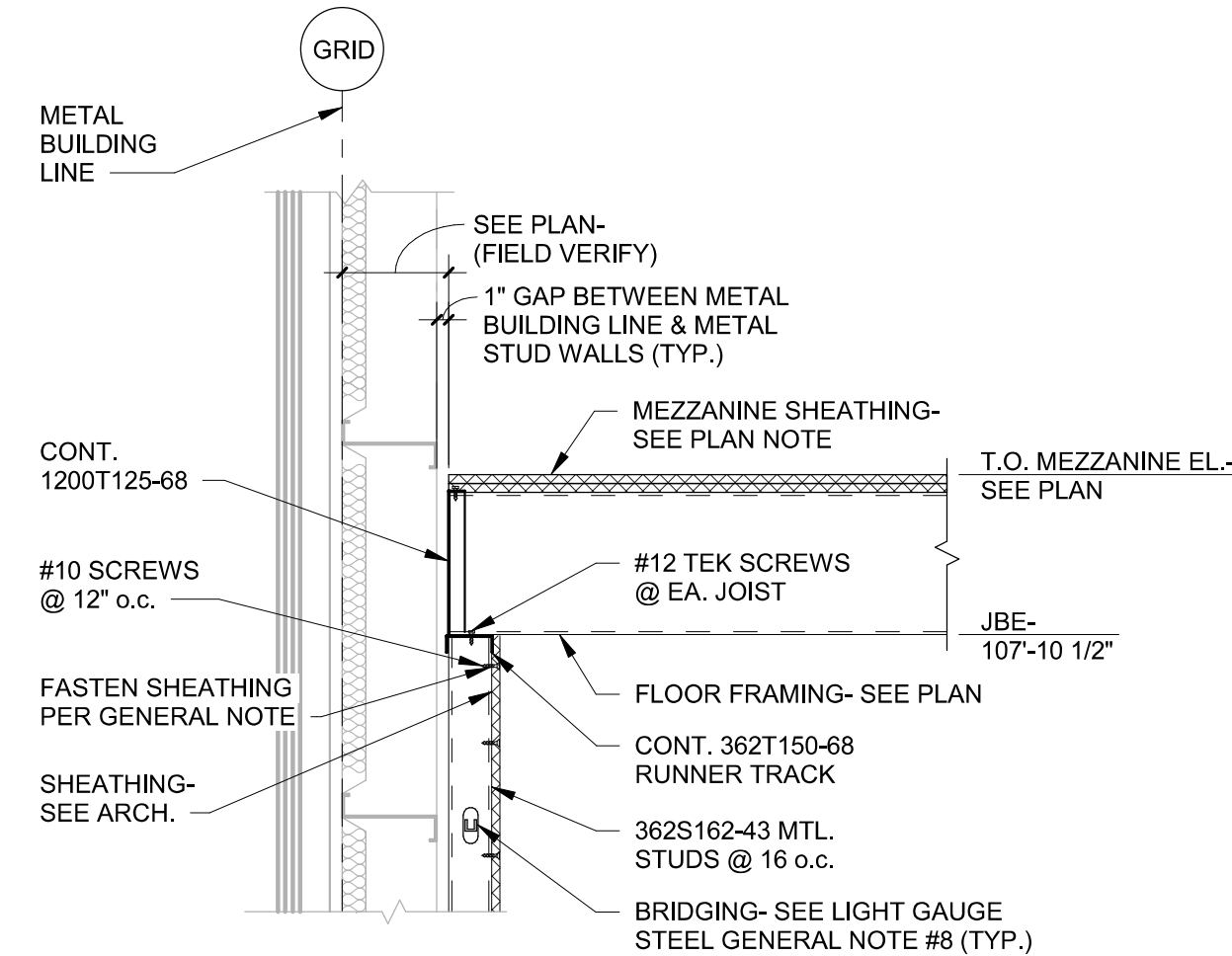
**1 MEZZANINE FRAMING PLAN**  
1/4" = 1'-0"



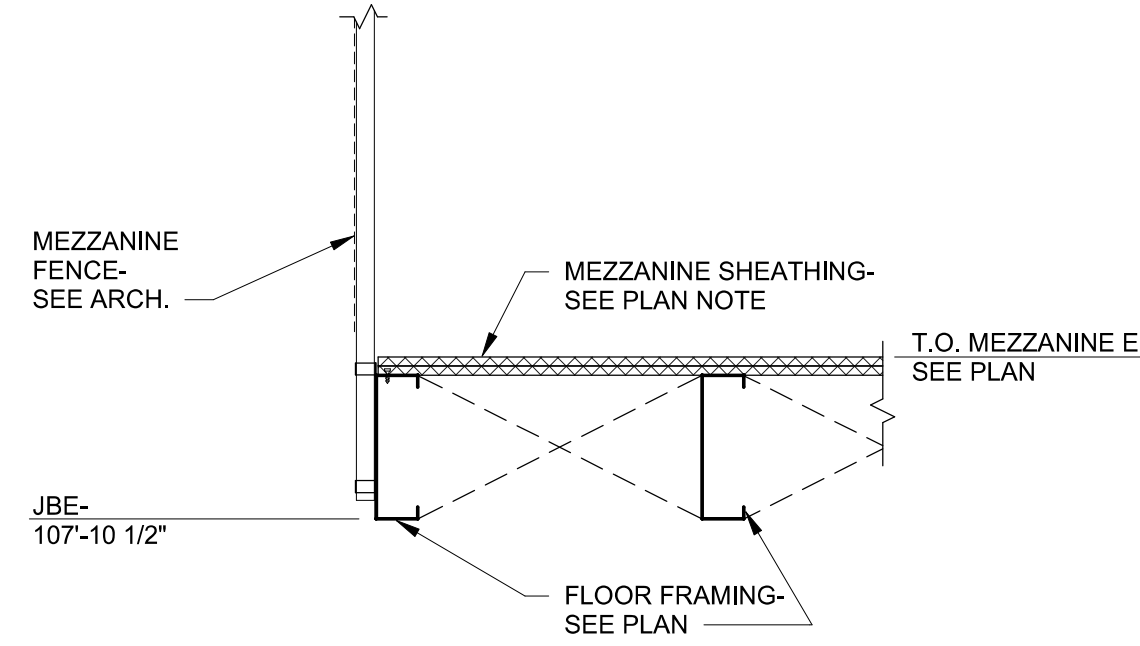
- LEGEND:**
- O.F. DENOTES OUTSIDE FACE
  - JBE DENOTES JOIST BEARING ELEVATION
  - [Hatched Box] DENOTES LOAD-BEARING STUD WALL
  - [Solid Box] DENOTES EXTENTS OF MEZZANINE FLOOR DECK
  - ± DENOTES FIELD VERIFY DIMENSION
  - [Dashed Line] DENOTES SIMPSON STRONG-TIE TB27 BRIDGING
  - C4 DENOTES HSS4.000 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.

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



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



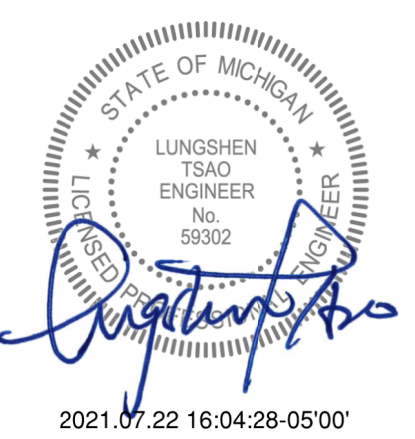


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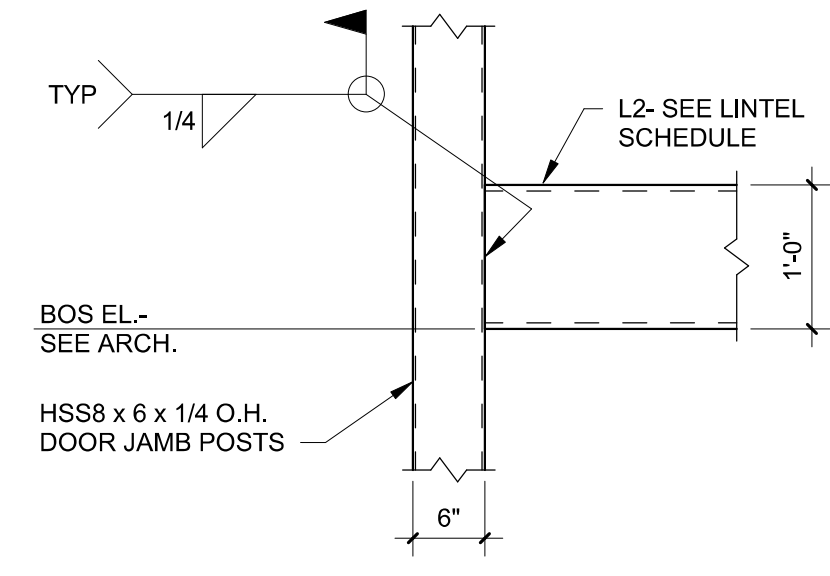
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MARSHALL, MI 49063  
JOB NUMBER: 03-21-20336

ISSUE BLOCK		
1	07/09/21	ADD 1

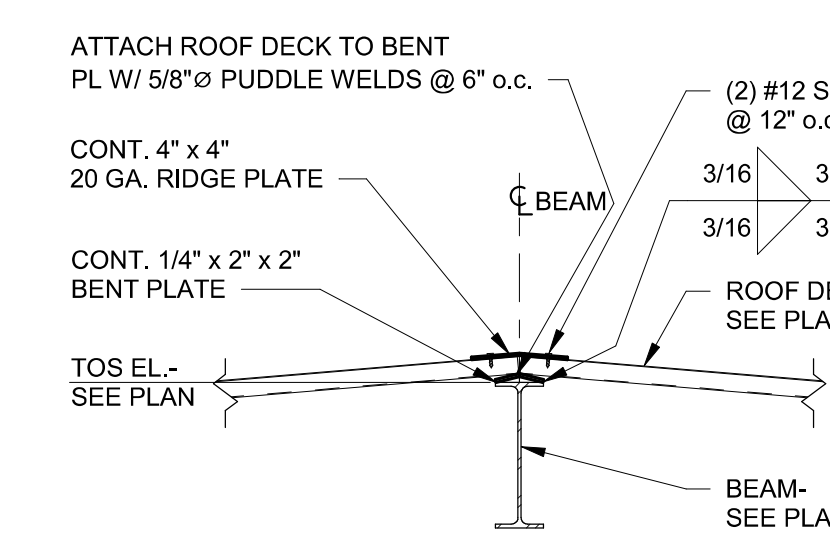
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DRAWN BY: JWK  
DOCUMENT DATE: 05/05/21



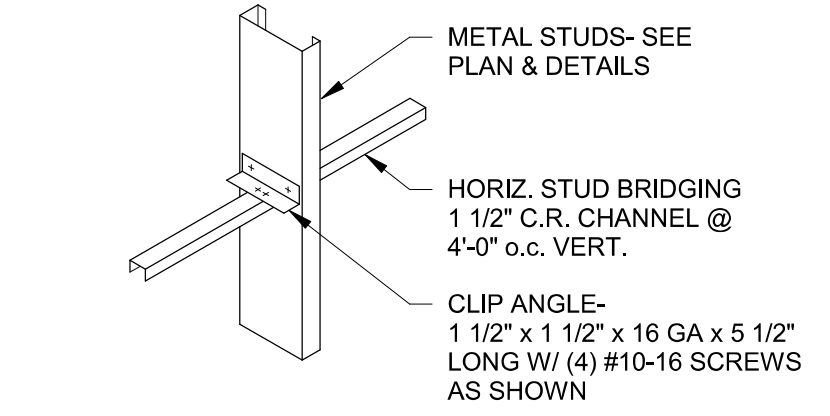
**ROOF FRAMING PLAN & TYPICAL DETAILS**



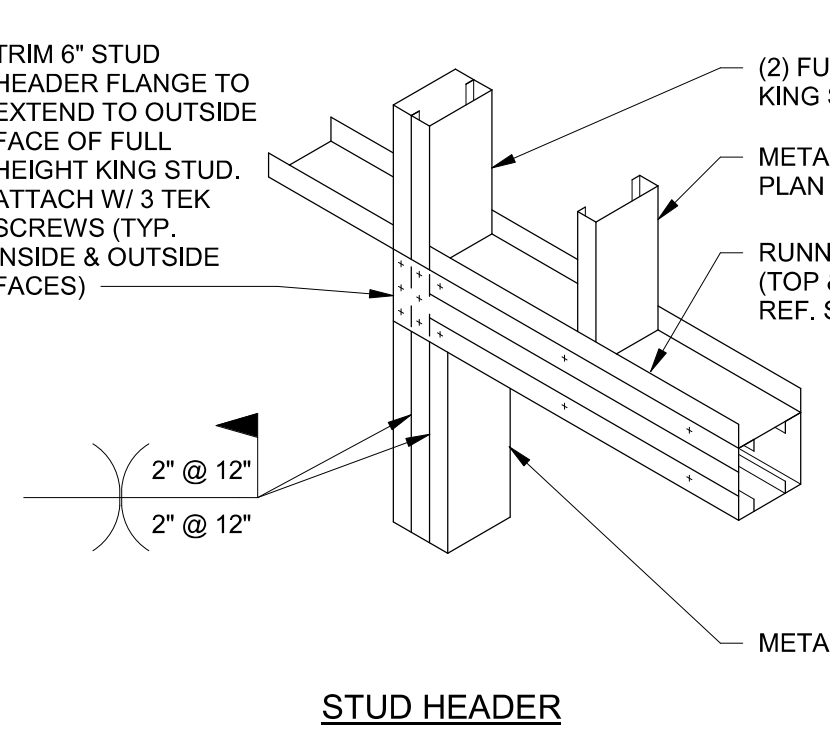
**6 DETAIL**  
3/4" = 1'-0"



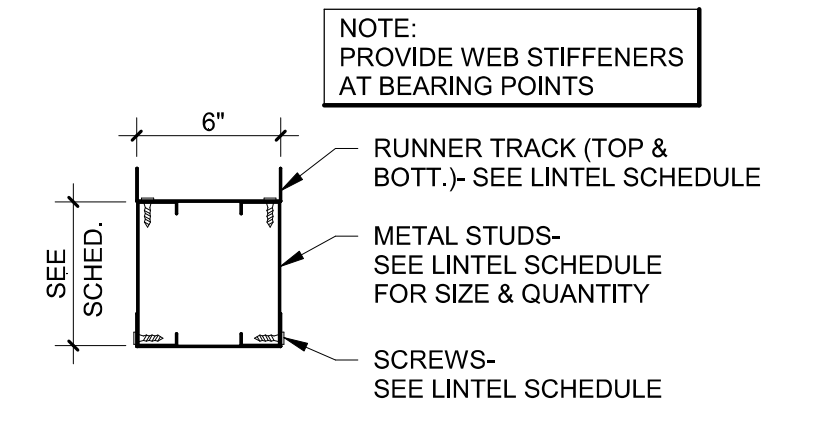
**5 SECTION**  
3/4" = 1'-0"



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



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



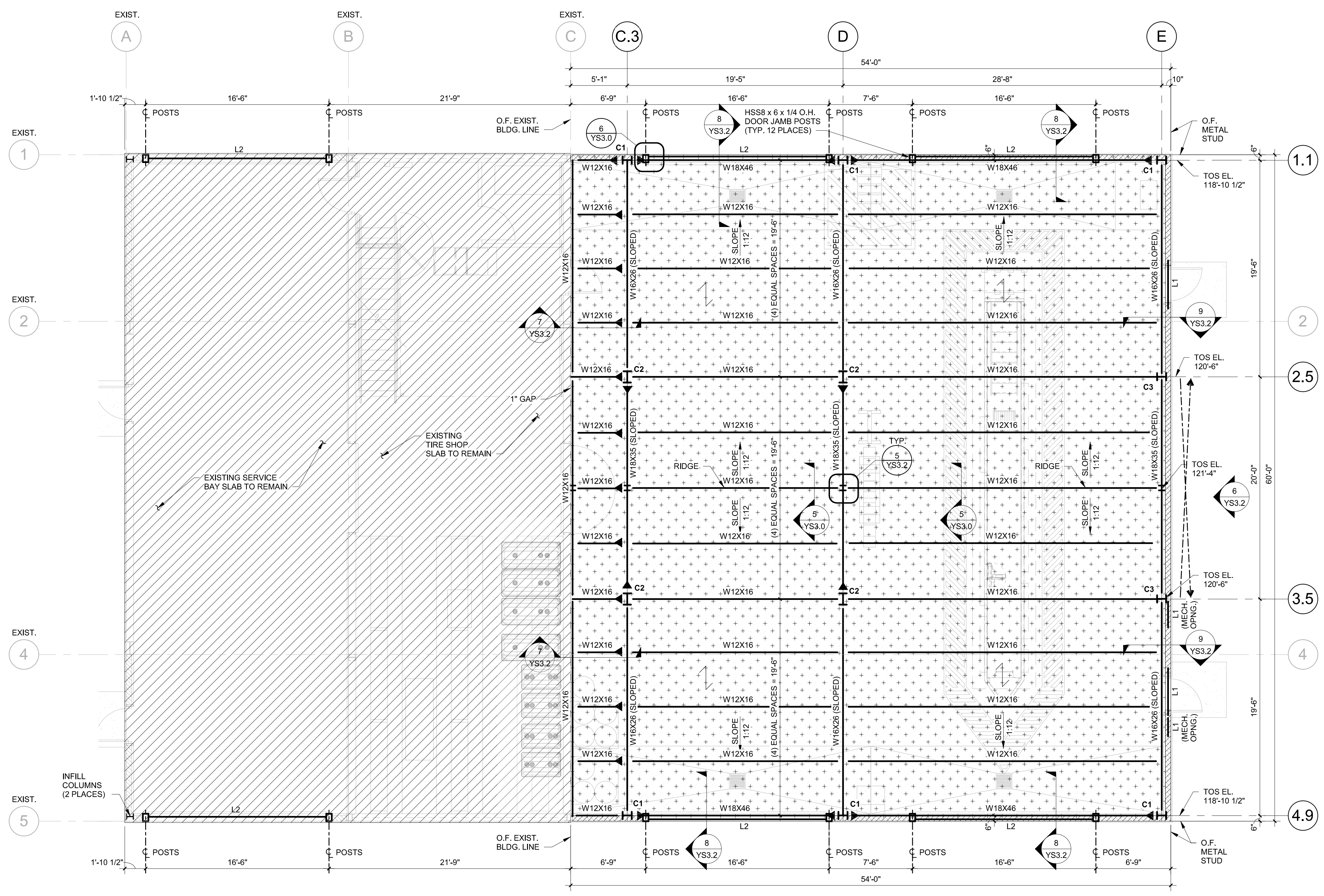
**2 LINTEL DETAIL**  
3/4" = 1'-0"

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

SHEET: ACTION FOR RELEASE  
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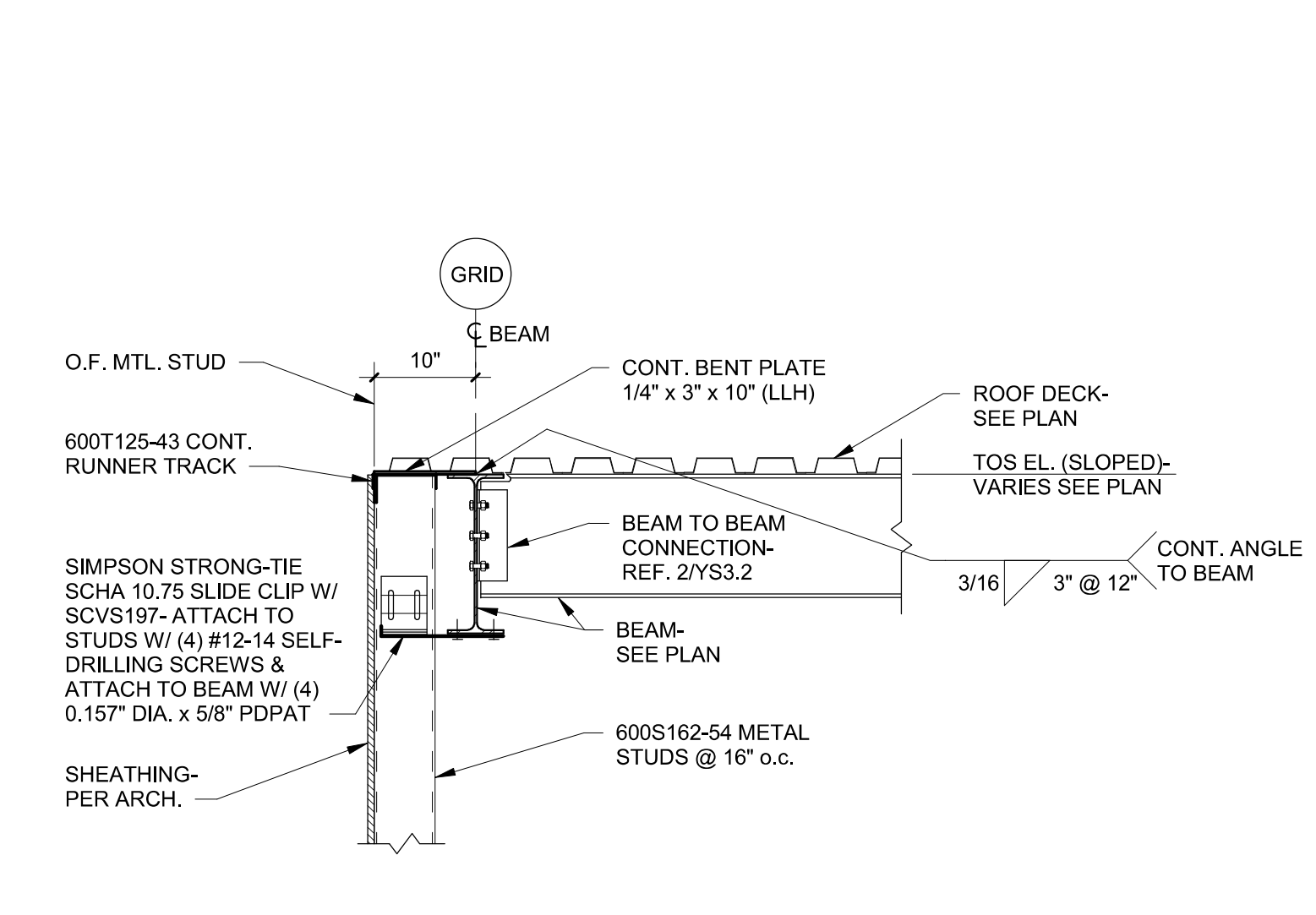
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ISSUE BLOCK		
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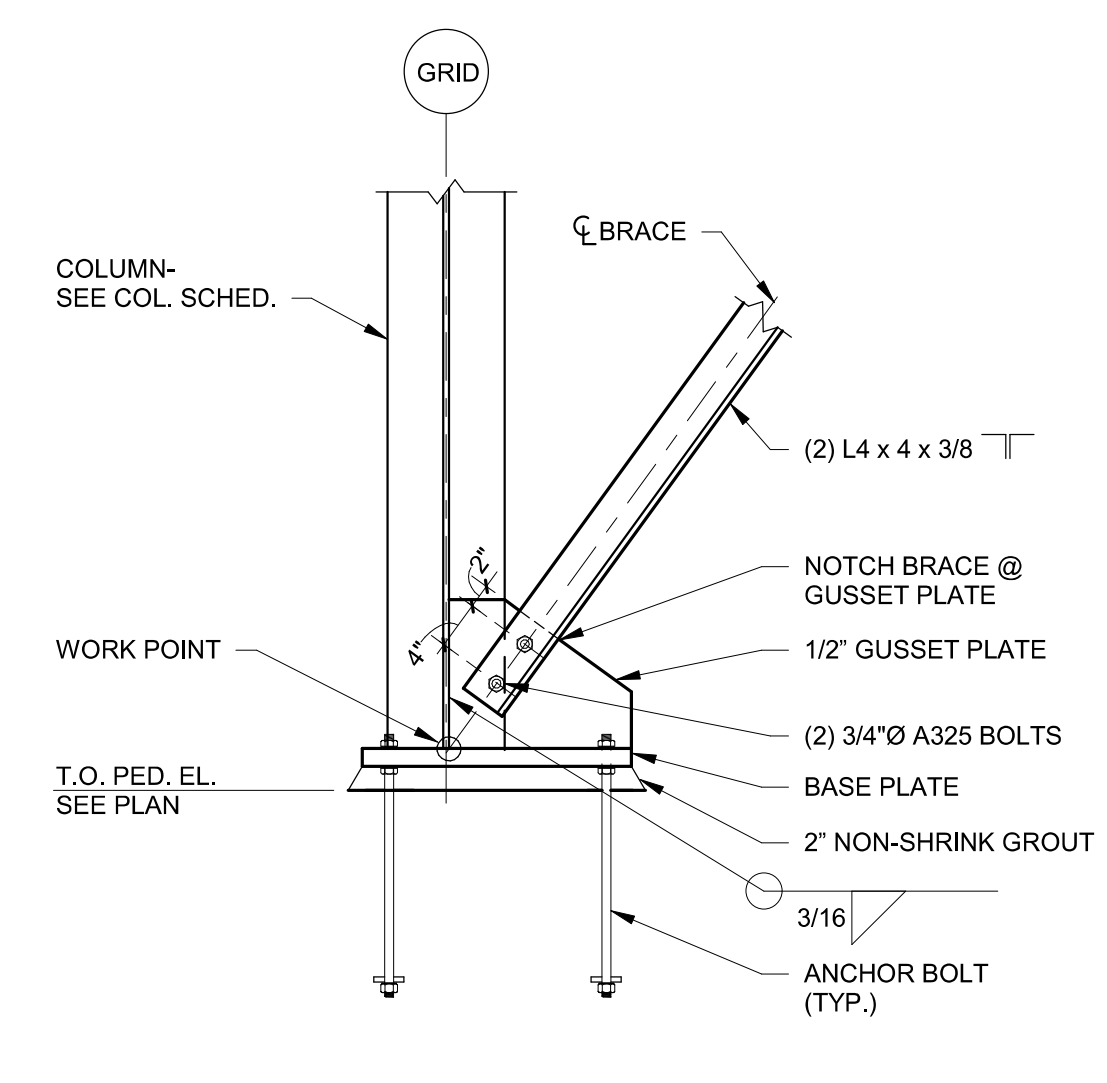
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 DOCUMENT DATE: 05/05/21

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 TSAD  
 ENGINEER  
 No. 59302  
  
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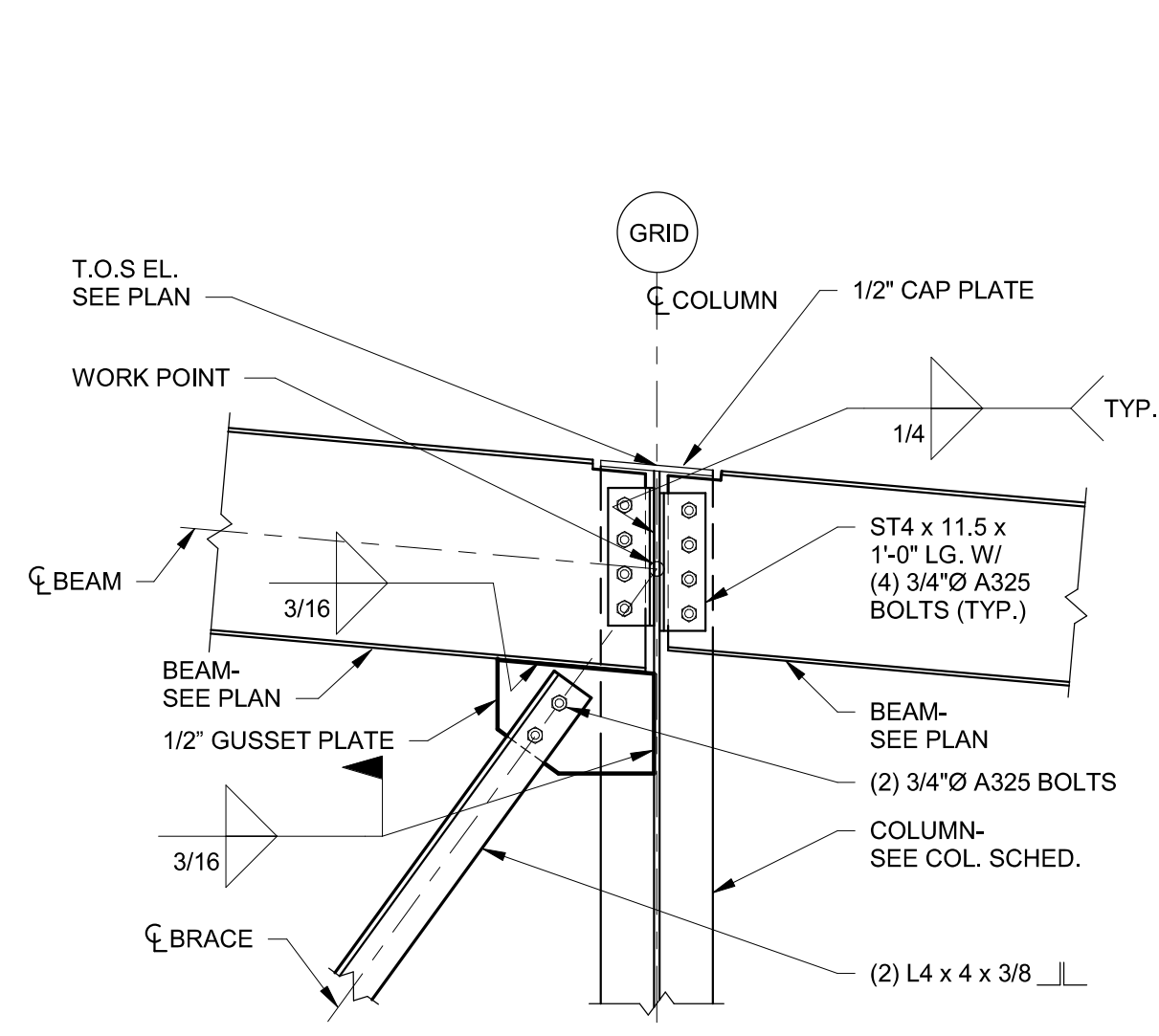
**ROOF FRAMING DETAILS**  
 SHEET: **YS3.2**



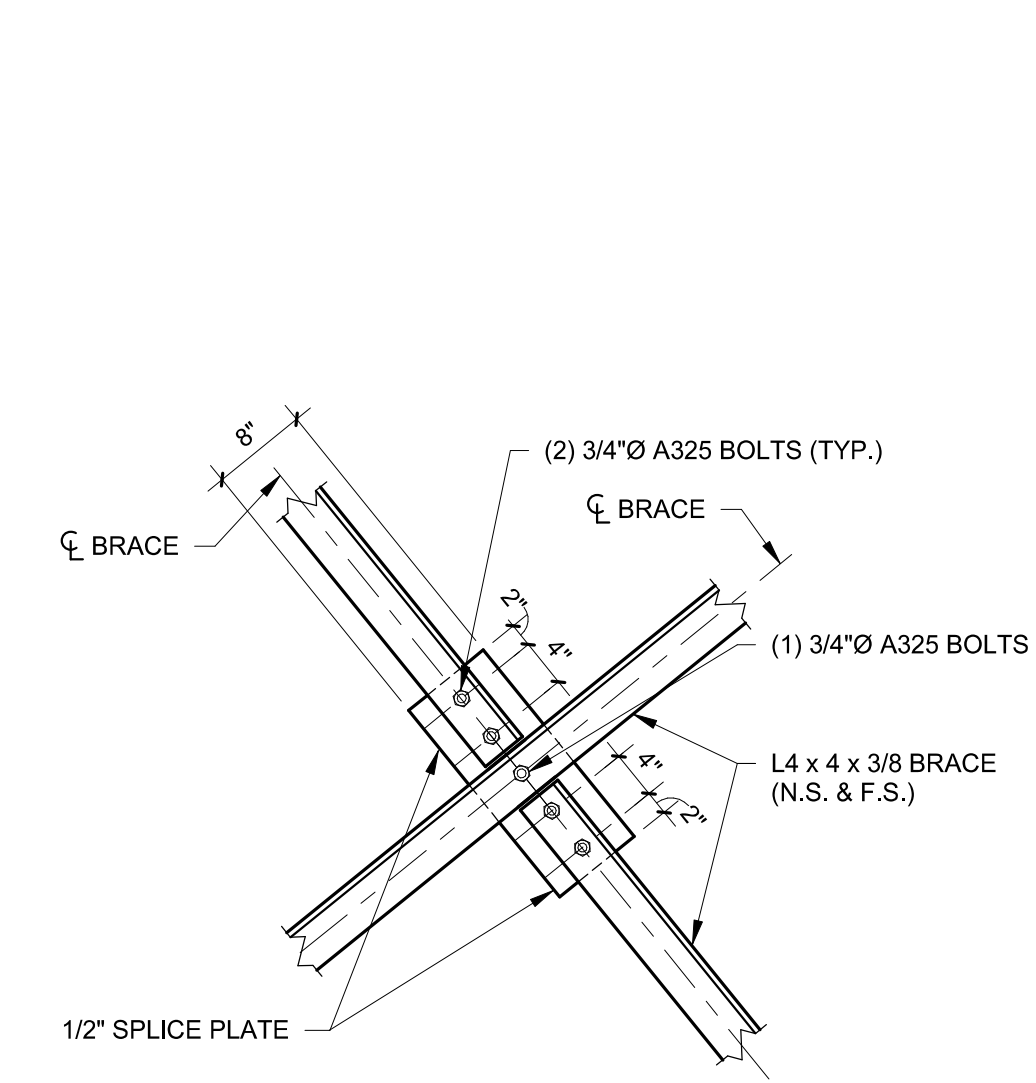
**9 SECTION**  
3/4" = 1'-0"



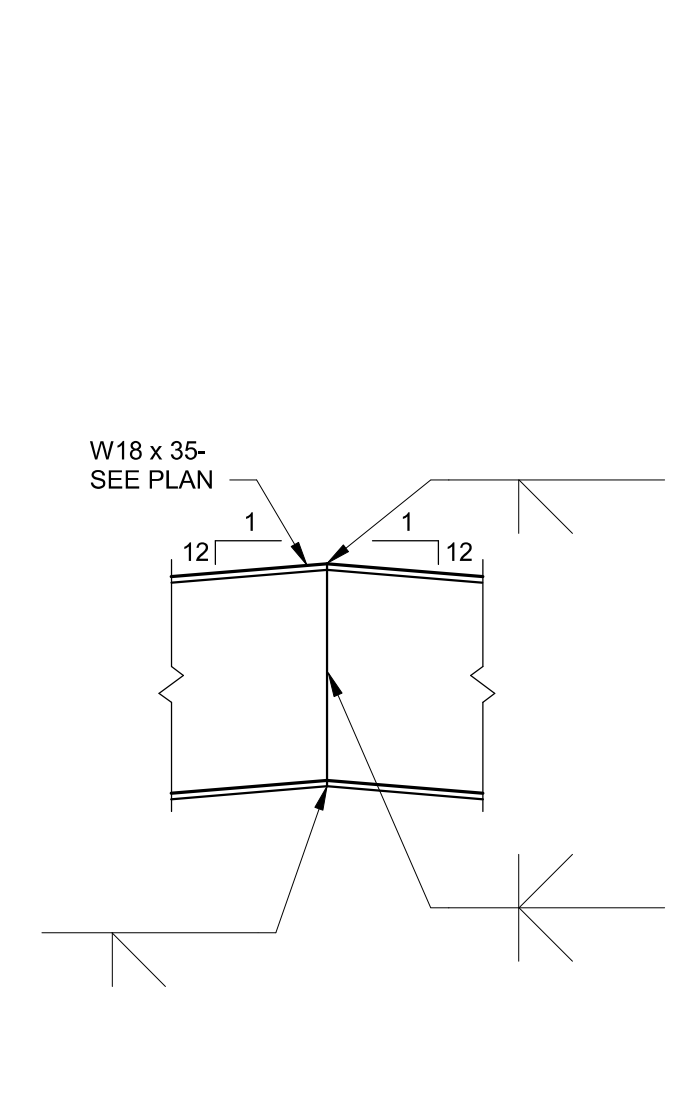
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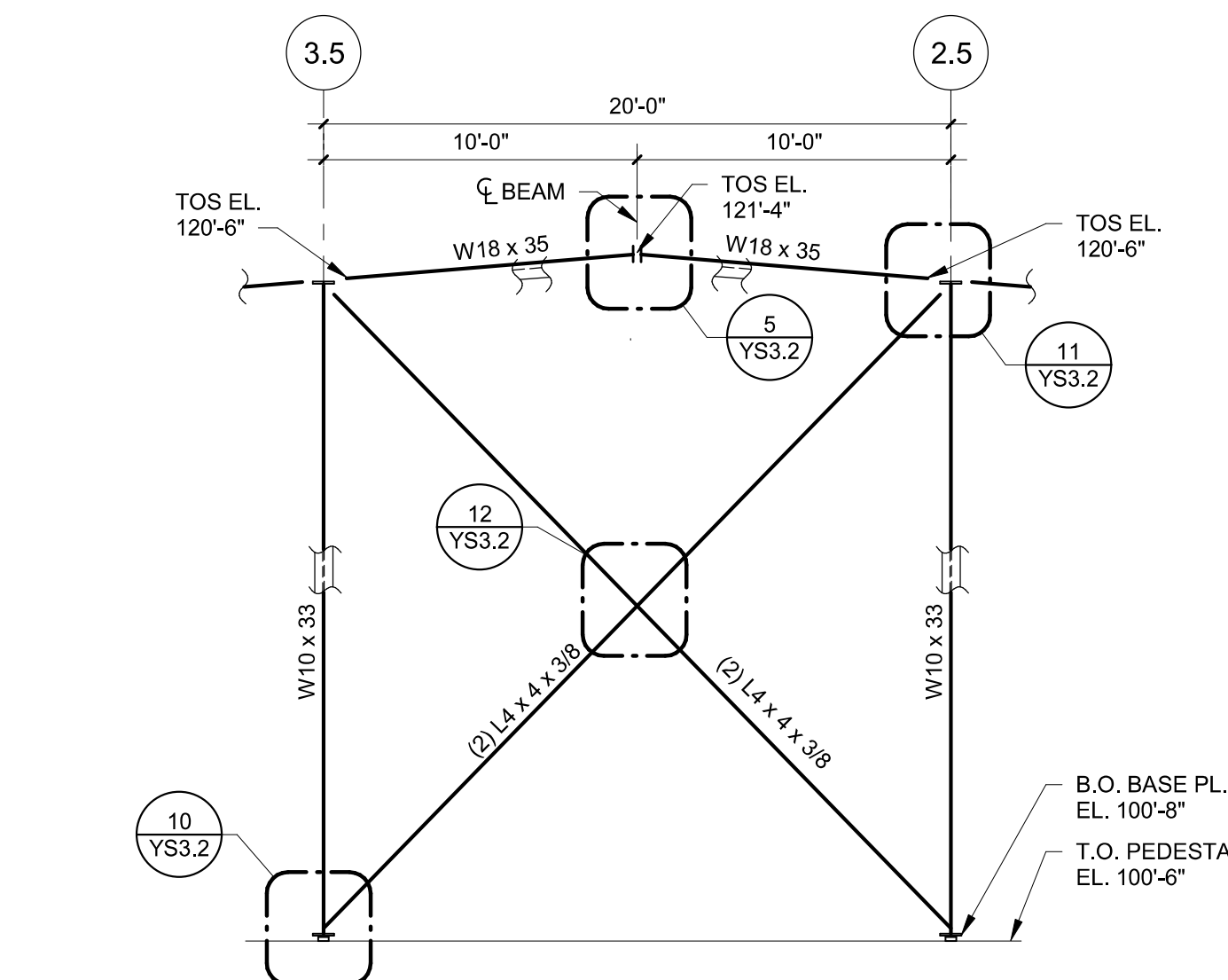
**11 DETAIL**  
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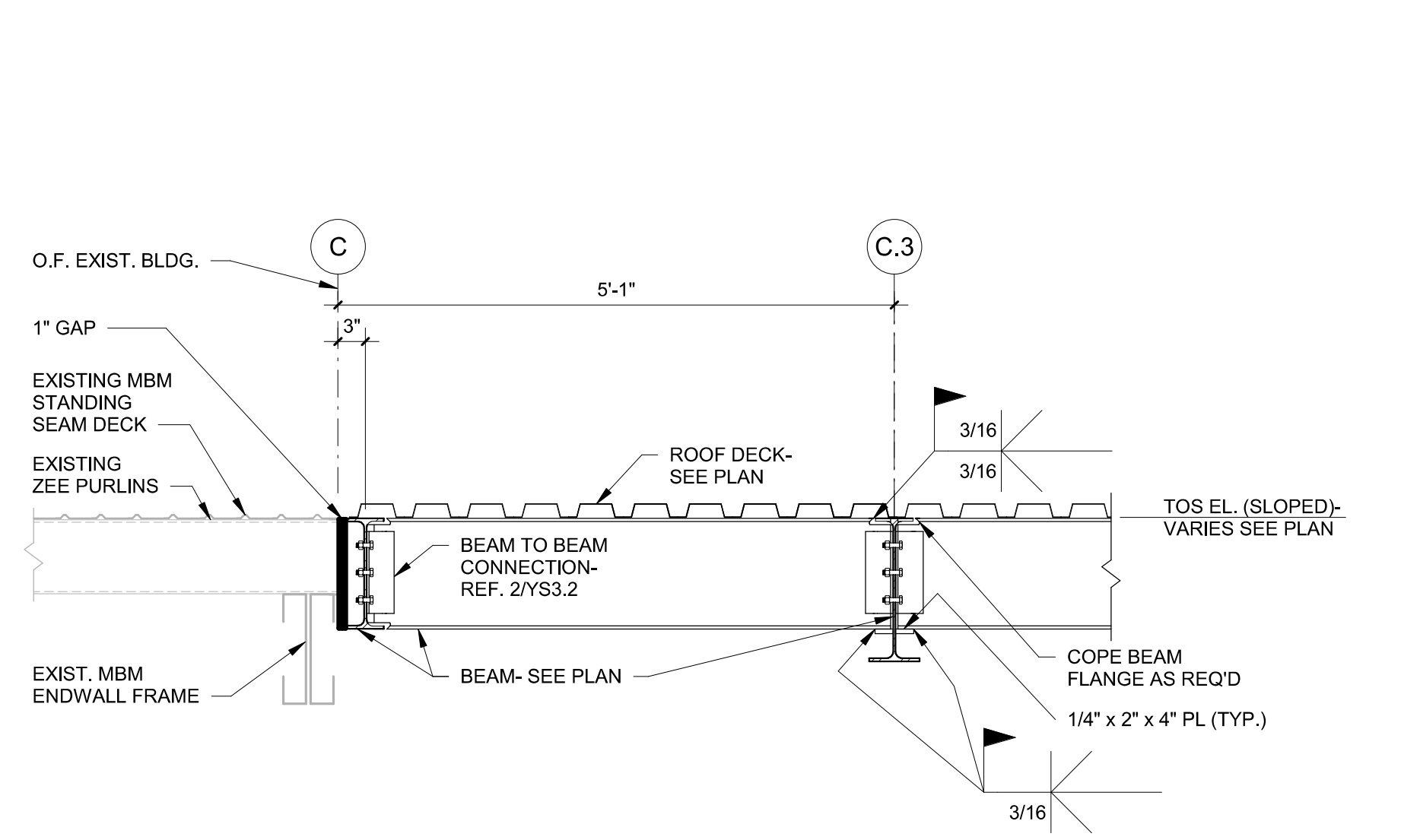
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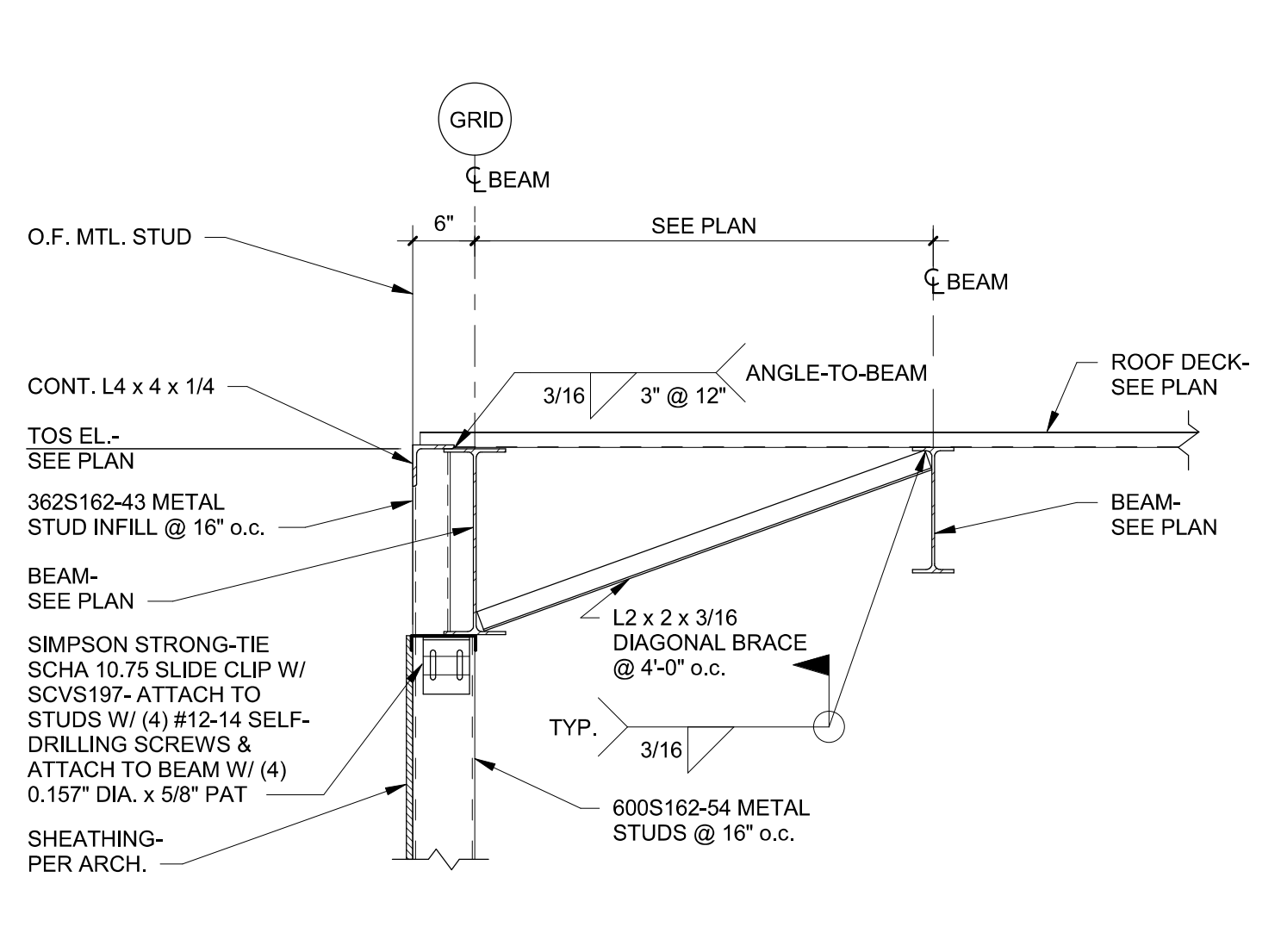
**5 DETAIL**  
3/4" = 1'-0"



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



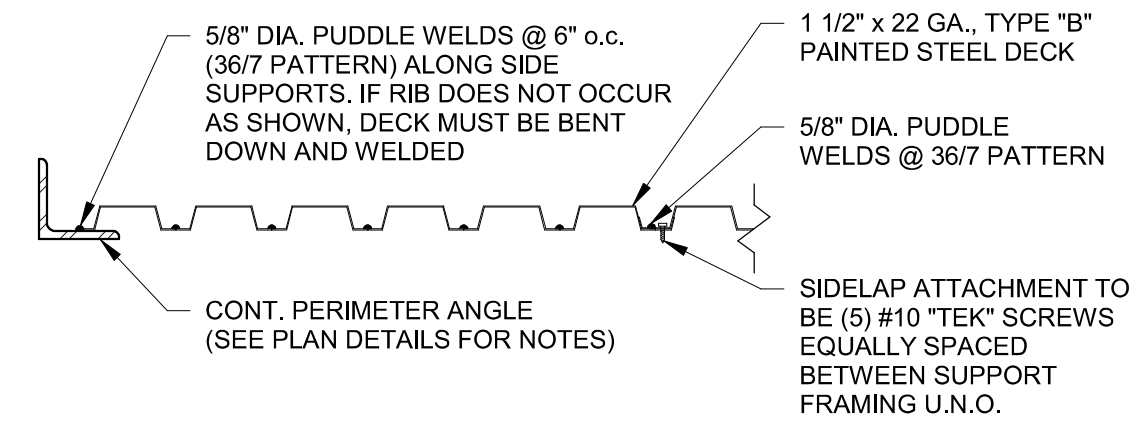
**7 SECTION**  
3/4" = 1'-0"



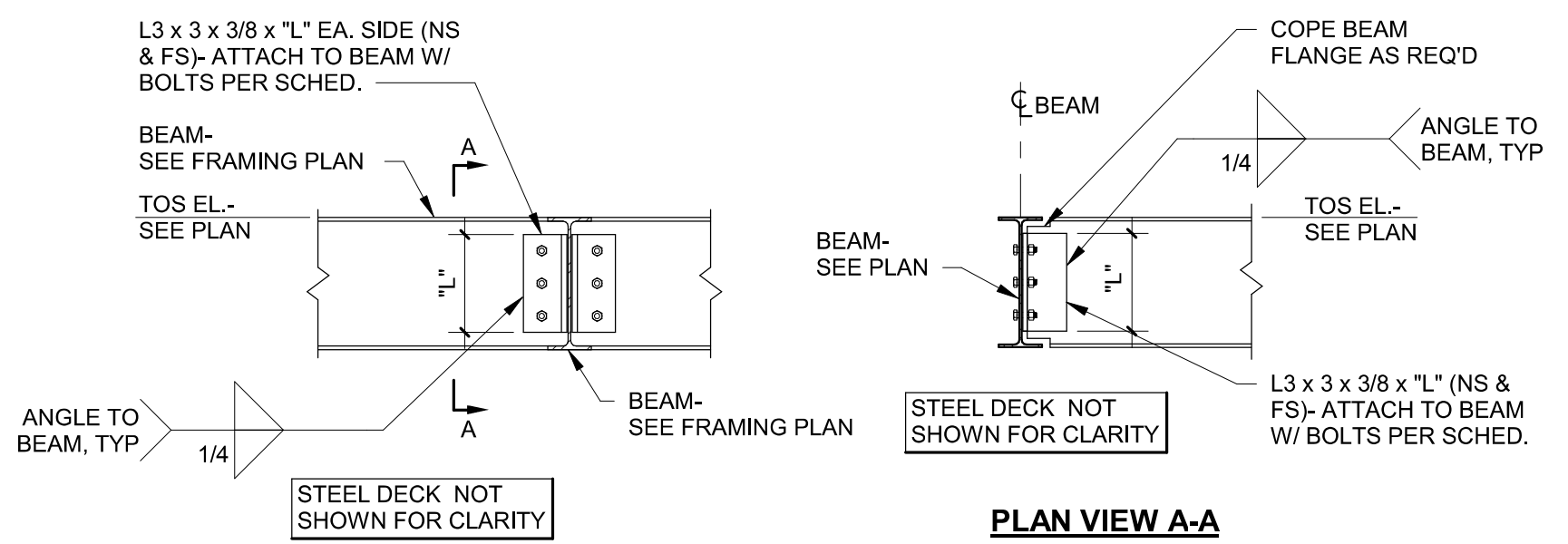
**8 SECTION**  
3/4" = 1'-0"

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	

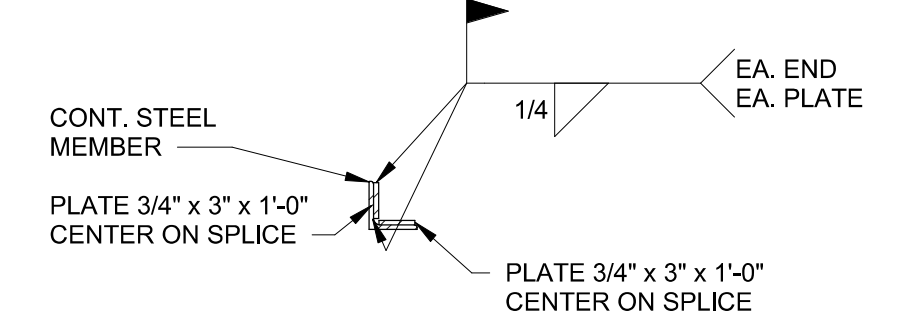
NOTE:  
 1. PROVIDE 5/8" DIA. PUDDLE WELDS @ 6" o.c. FOR END LAPS (MIN. 3" LAP) AND ENDS OF EACH DECK RUN.  
 2. ATTACHMENT AROUND ROOF OPENINGS SHALL BE WELDS @ 6" o.c.



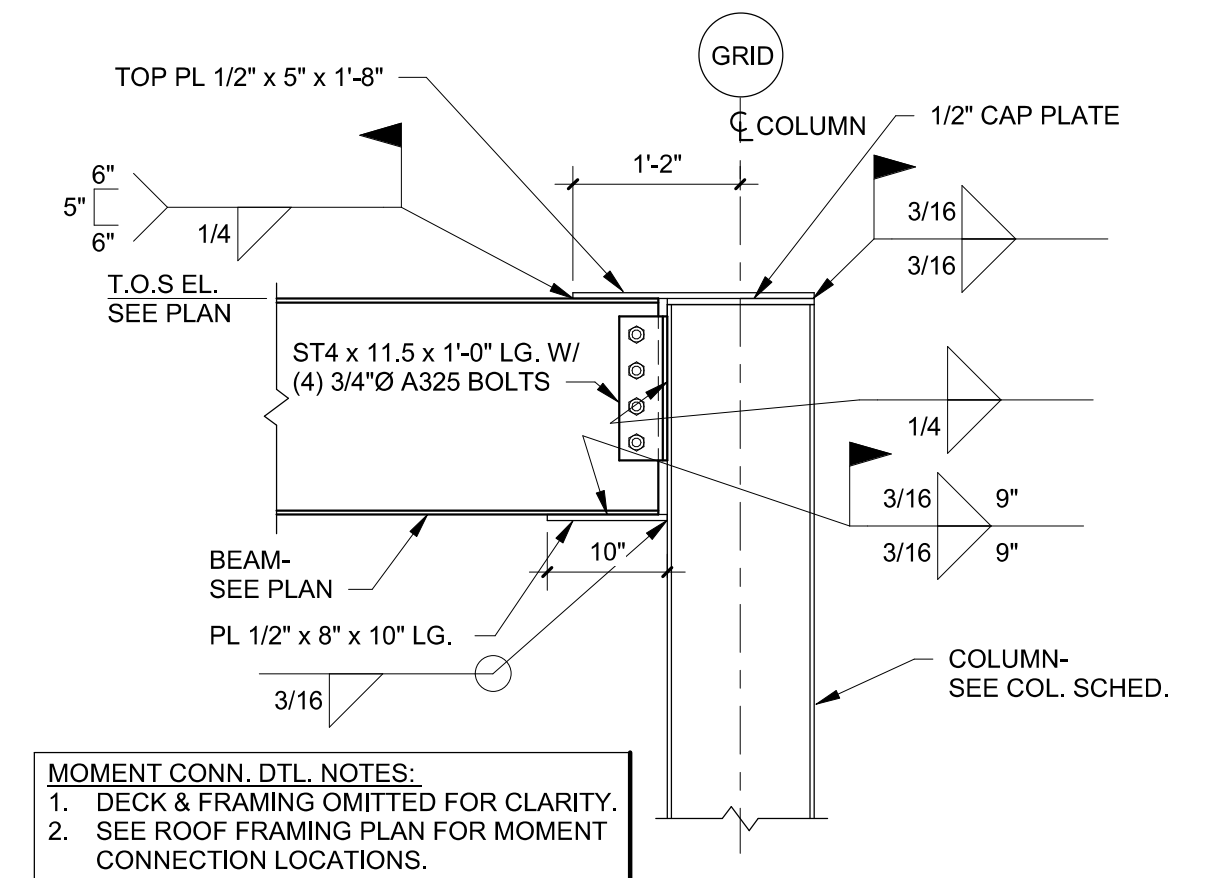
**1 TYP. 1/2" ROOF DECK FASTENING PATTERN DETAIL**  
NOT TO SCALE



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



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



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

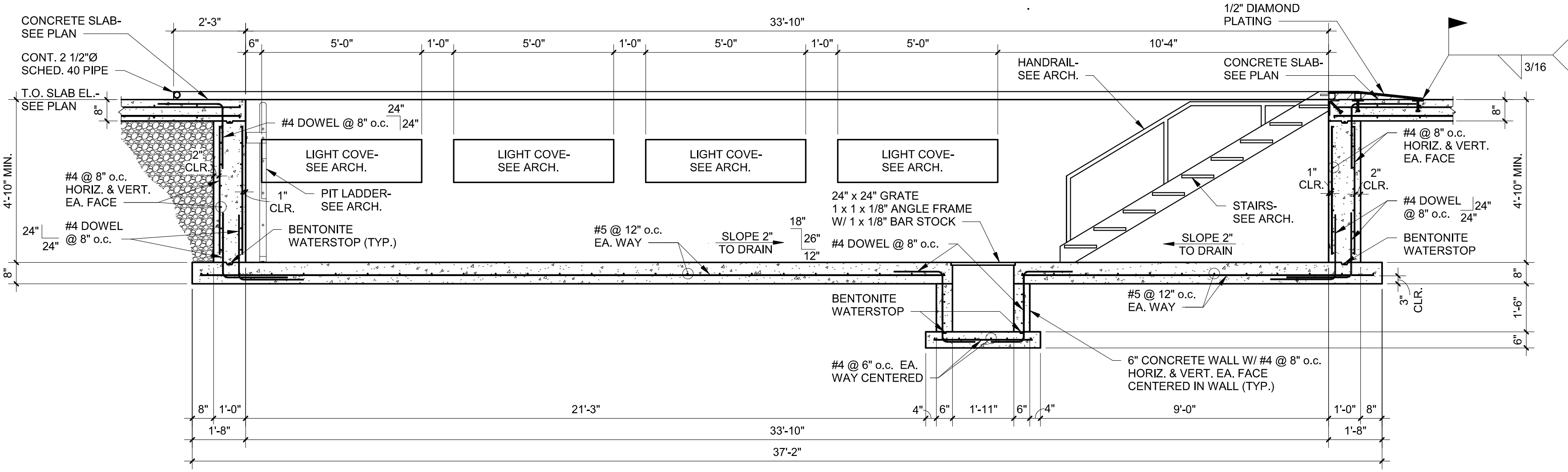
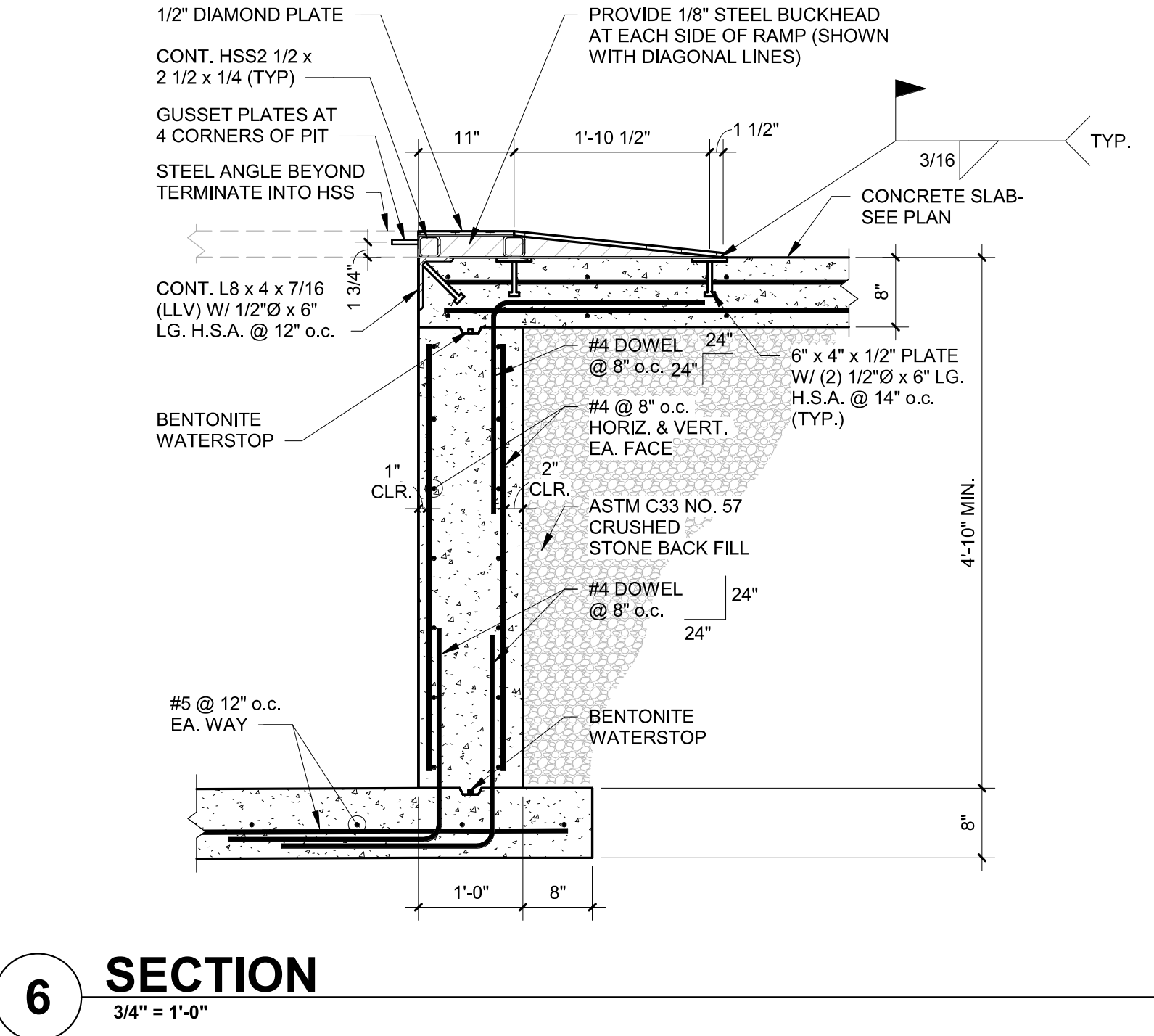
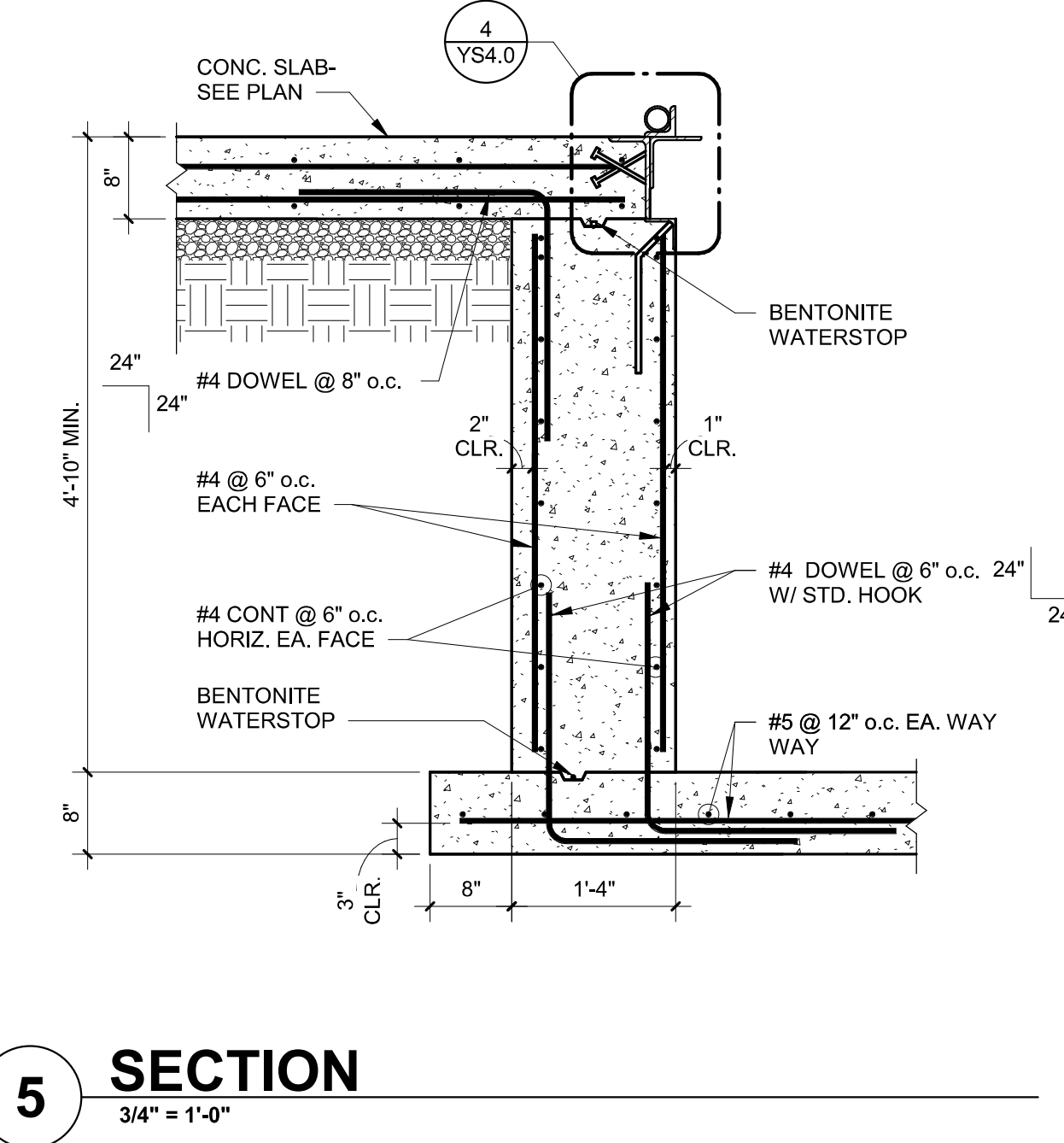
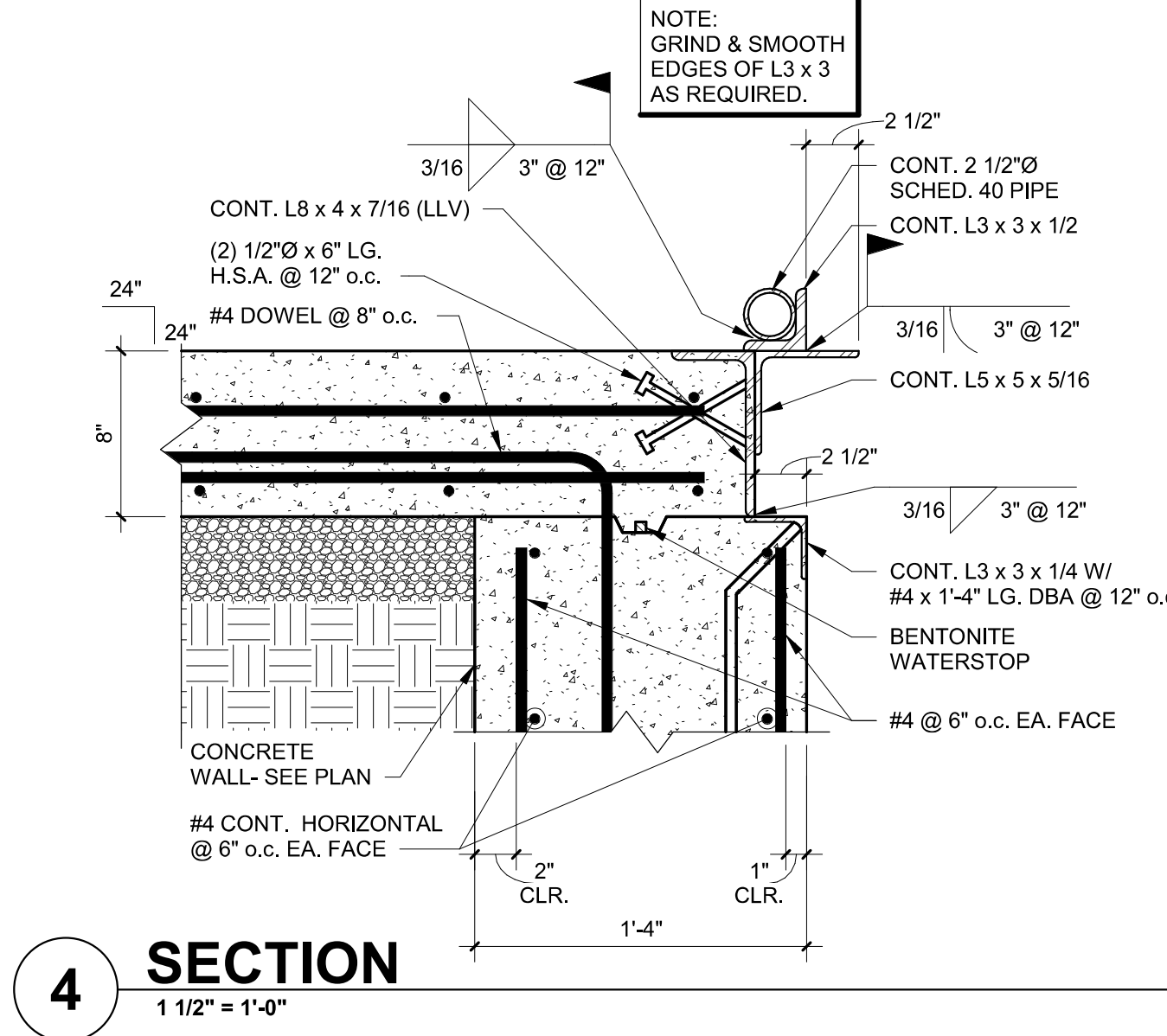
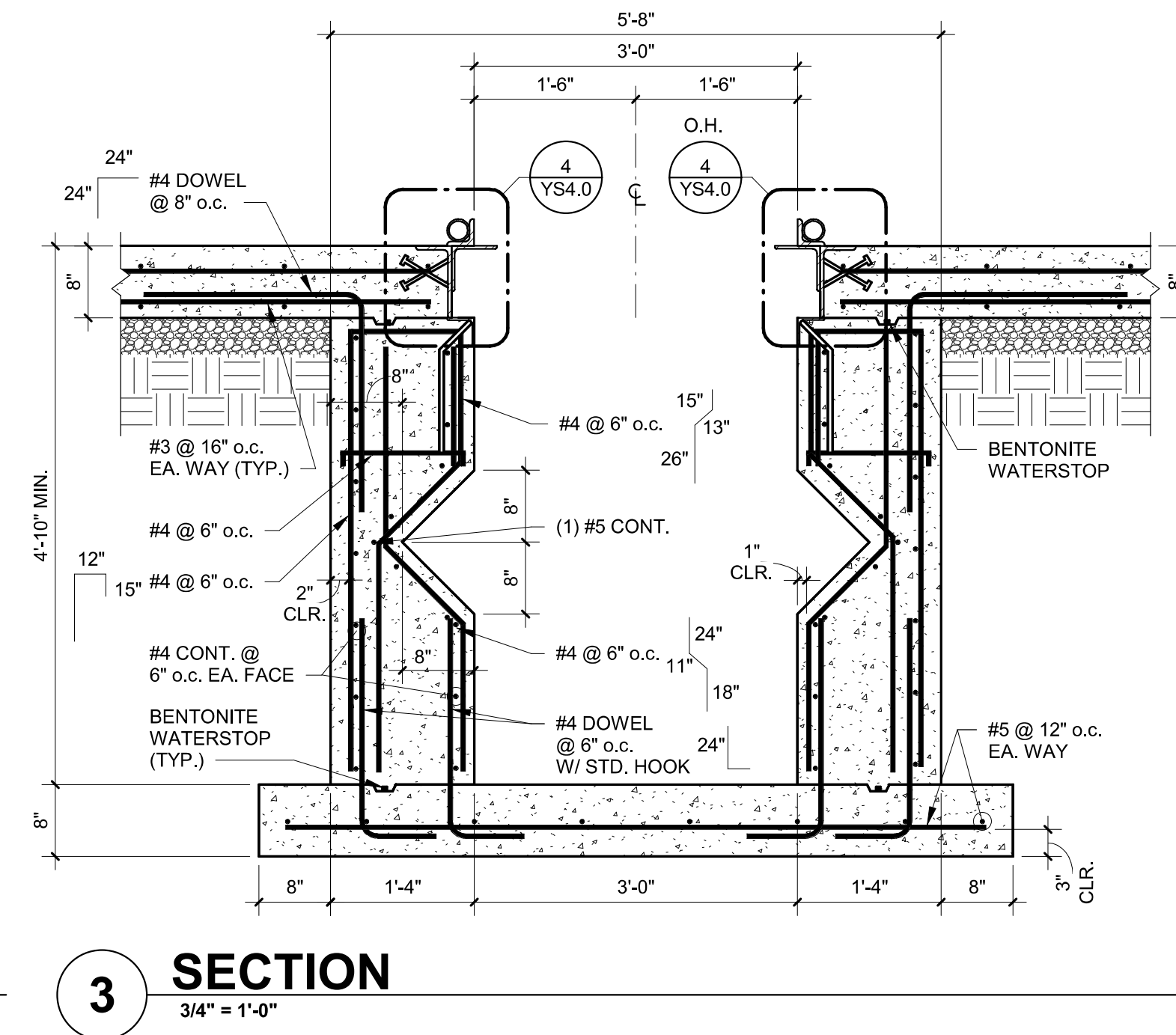
**MOMENT CONN. DETL. NOTES:**  
 1. DECK & FRAMING OMITTED FOR CLARITY.  
 2. SEE ROOF FRAMING PLAN FOR MOMENT CONNECTION LOCATIONS.

ISSUE BLOCK		
NO.	DATE	DESCRIPTION
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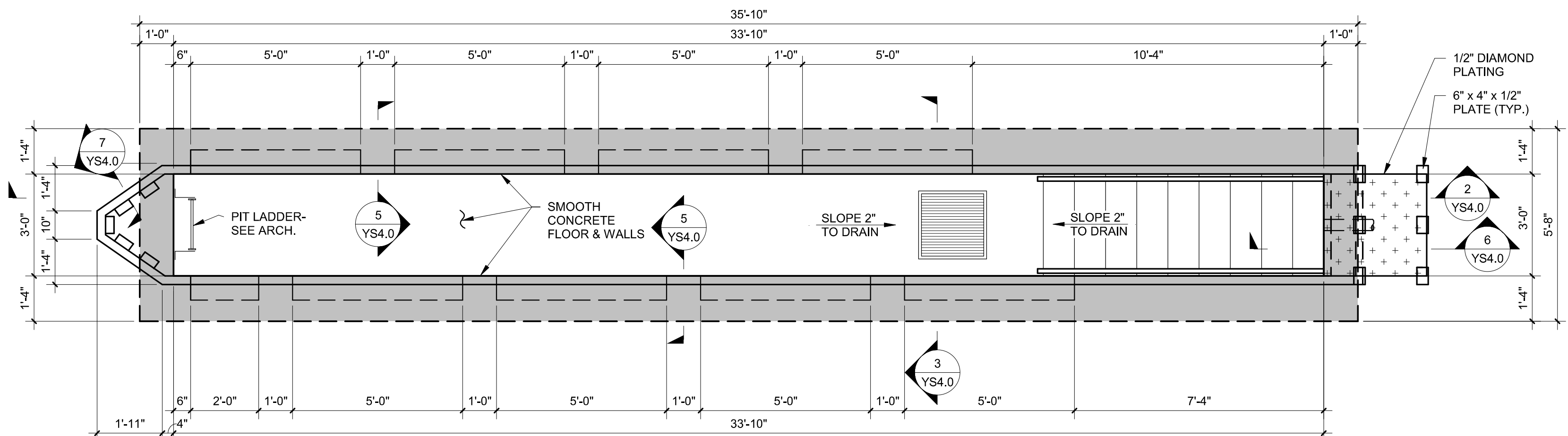
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DRAWN BY: JWK  
DOCUMENT DATE: 05/05/21

STATE OF MICHIGAN  
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ENGINEER  
No. 59302  
*Lunshen Tsao*  
2021.07.22 16:04:40-05'00"

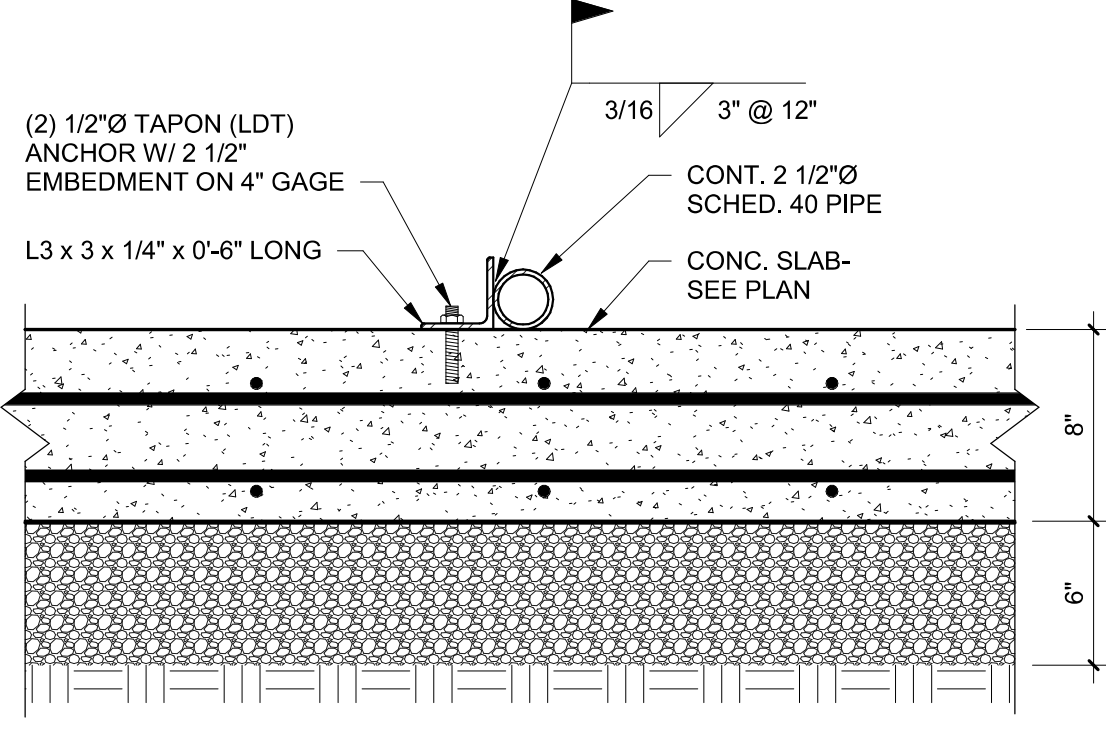
**LUBE PIT PLAN AND PIT DETAILS**



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



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



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

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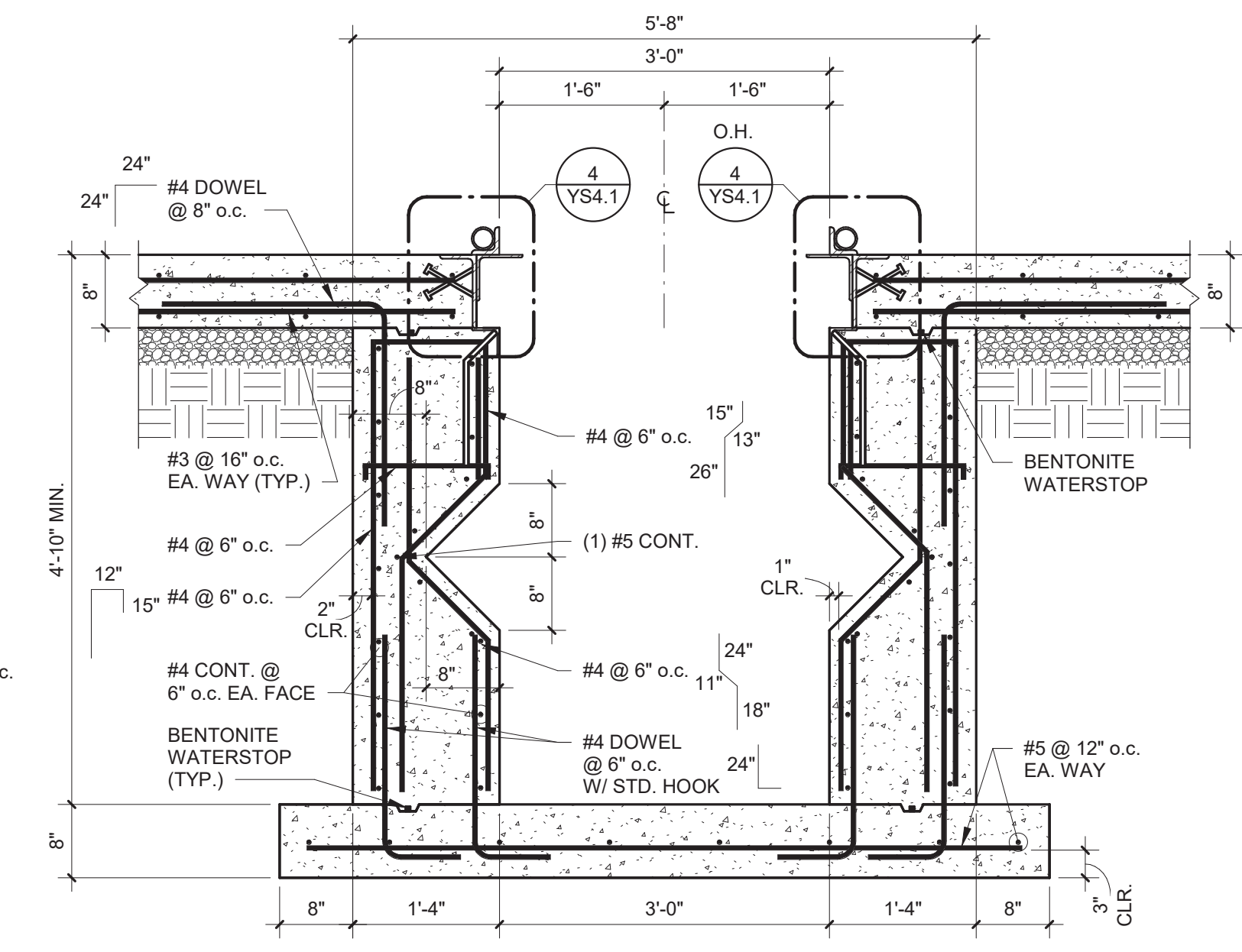
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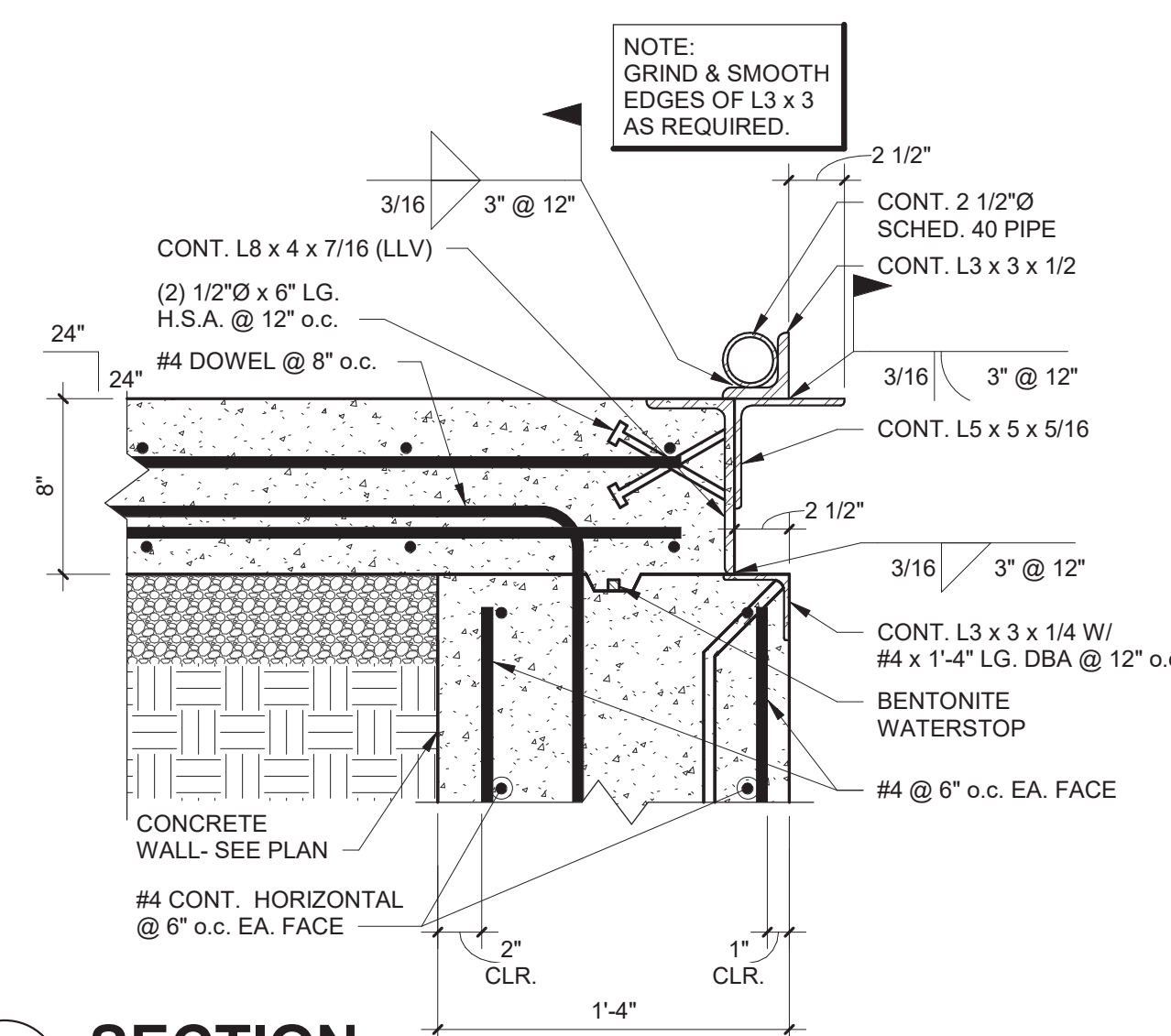
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**LUBE PIT PLAN AND PIT DETAILS**

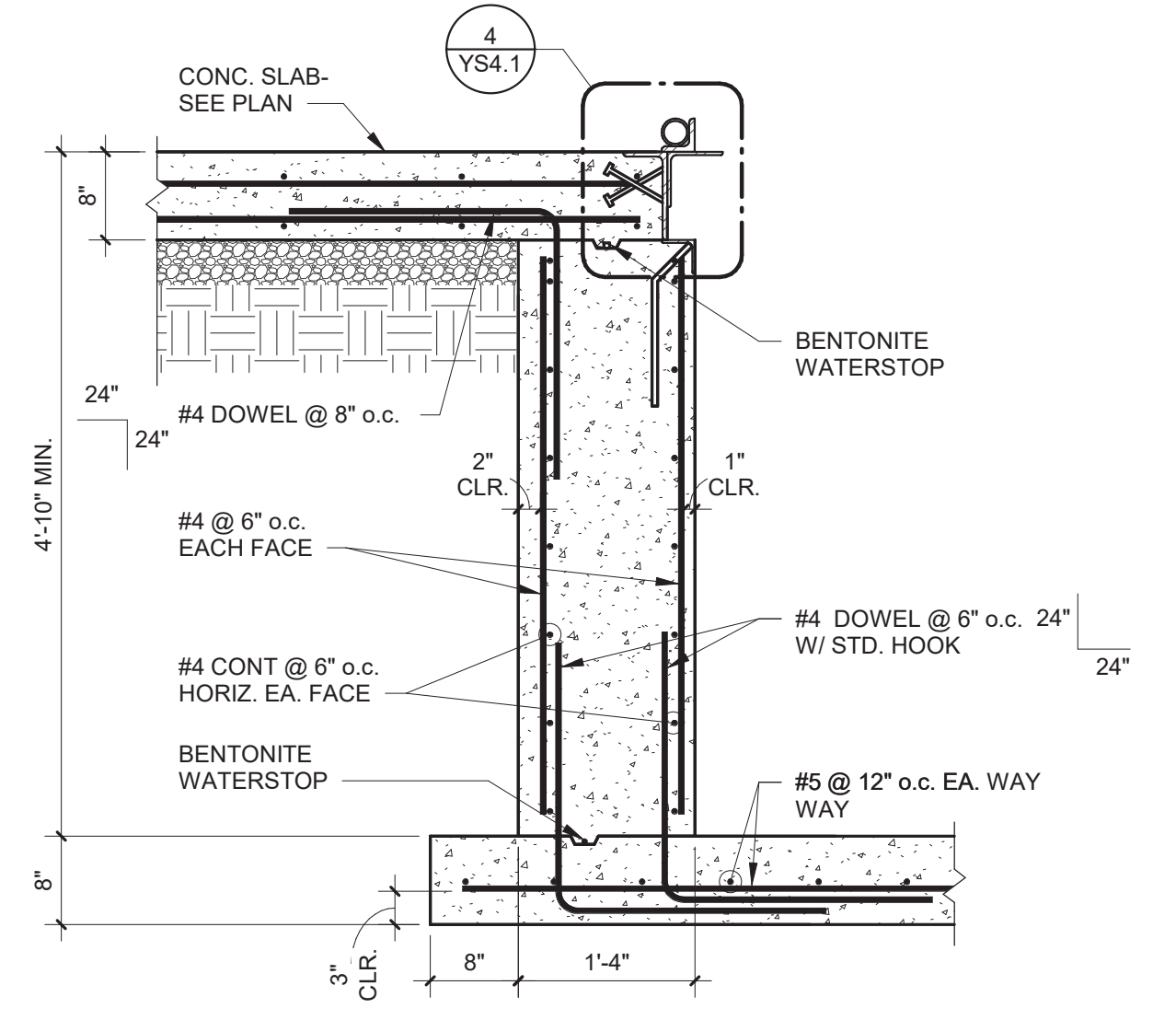
SHEET: **YS4.1**



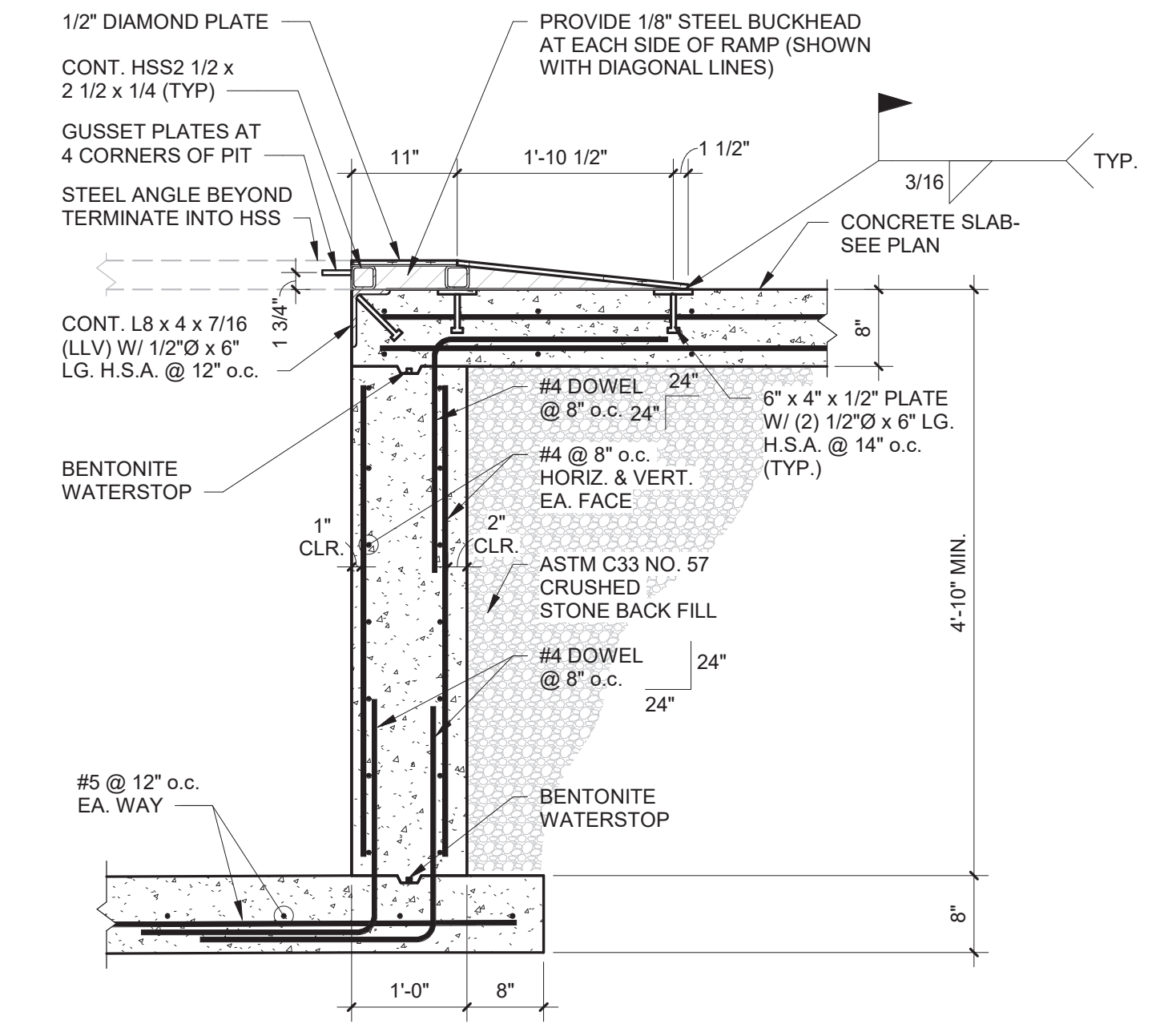
**3 SECTION**  
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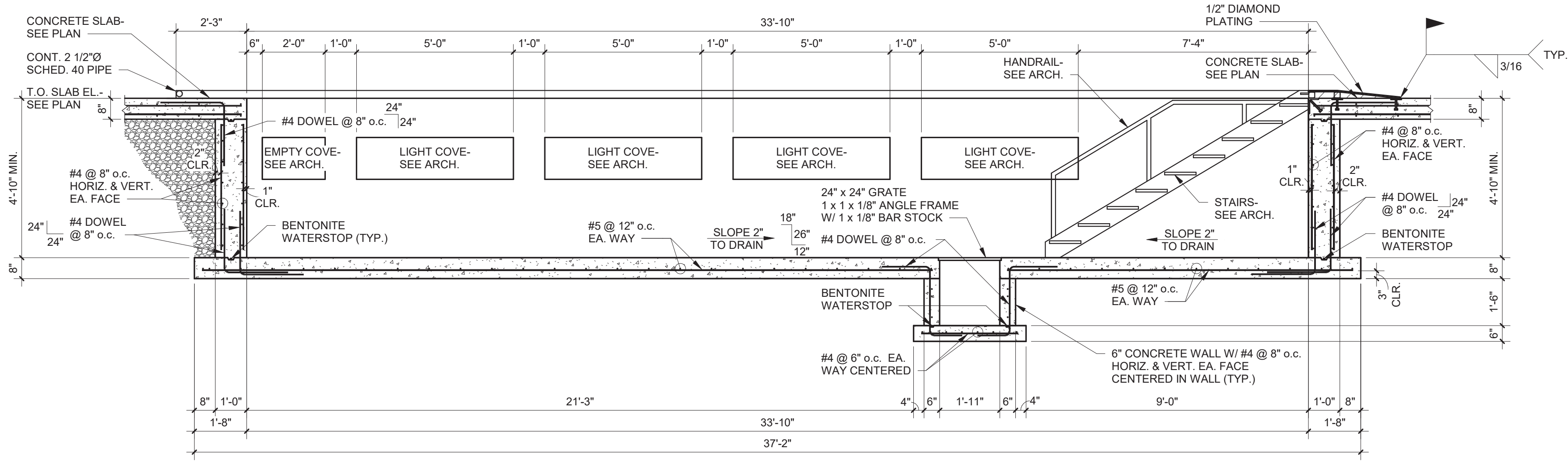
**4 SECTION**  
1 1/2" = 1'-0"



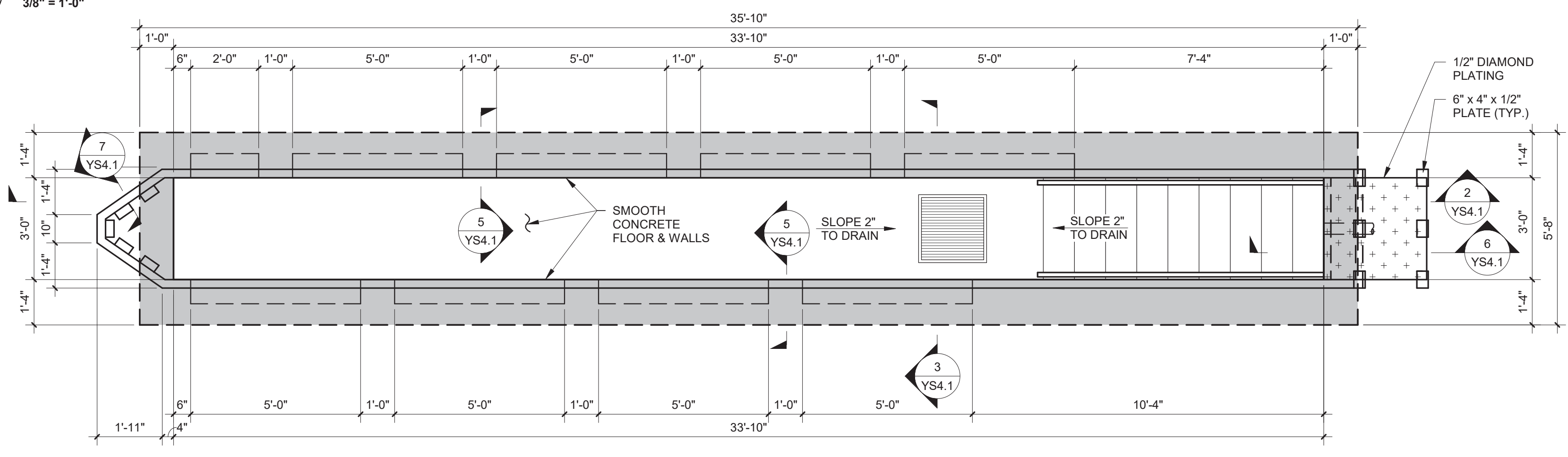
**5 SECTION**  
3/4" = 1'-0"



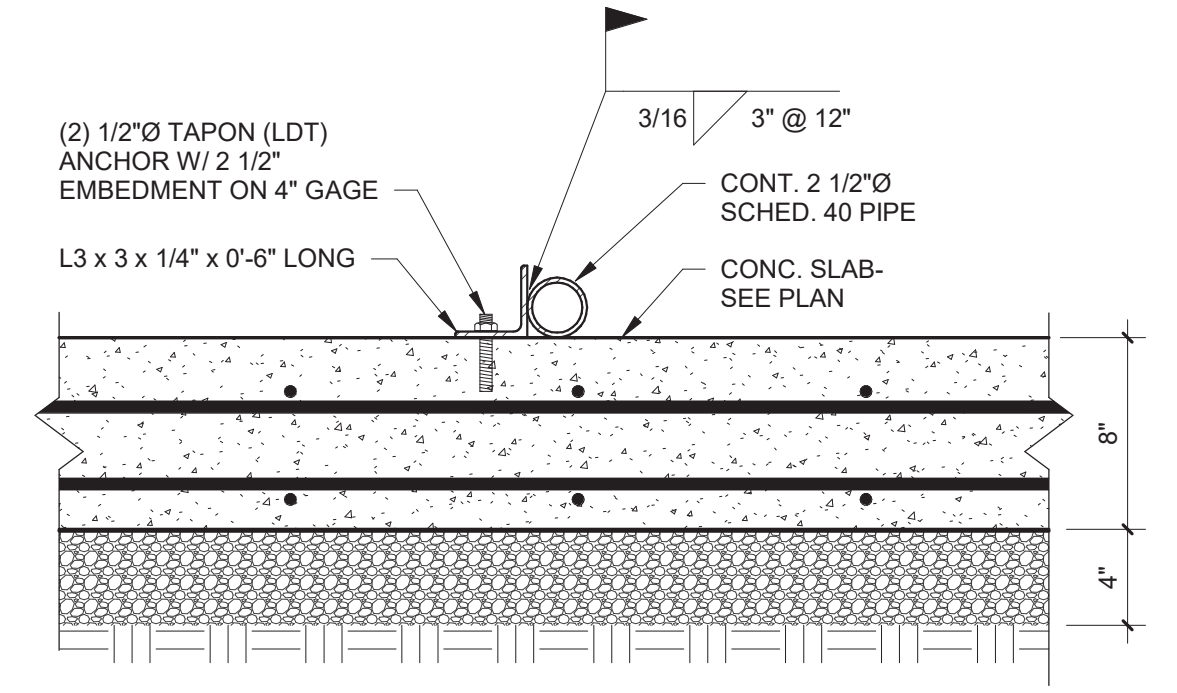
**6 SECTION**  
3/4" = 1'-0"



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



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

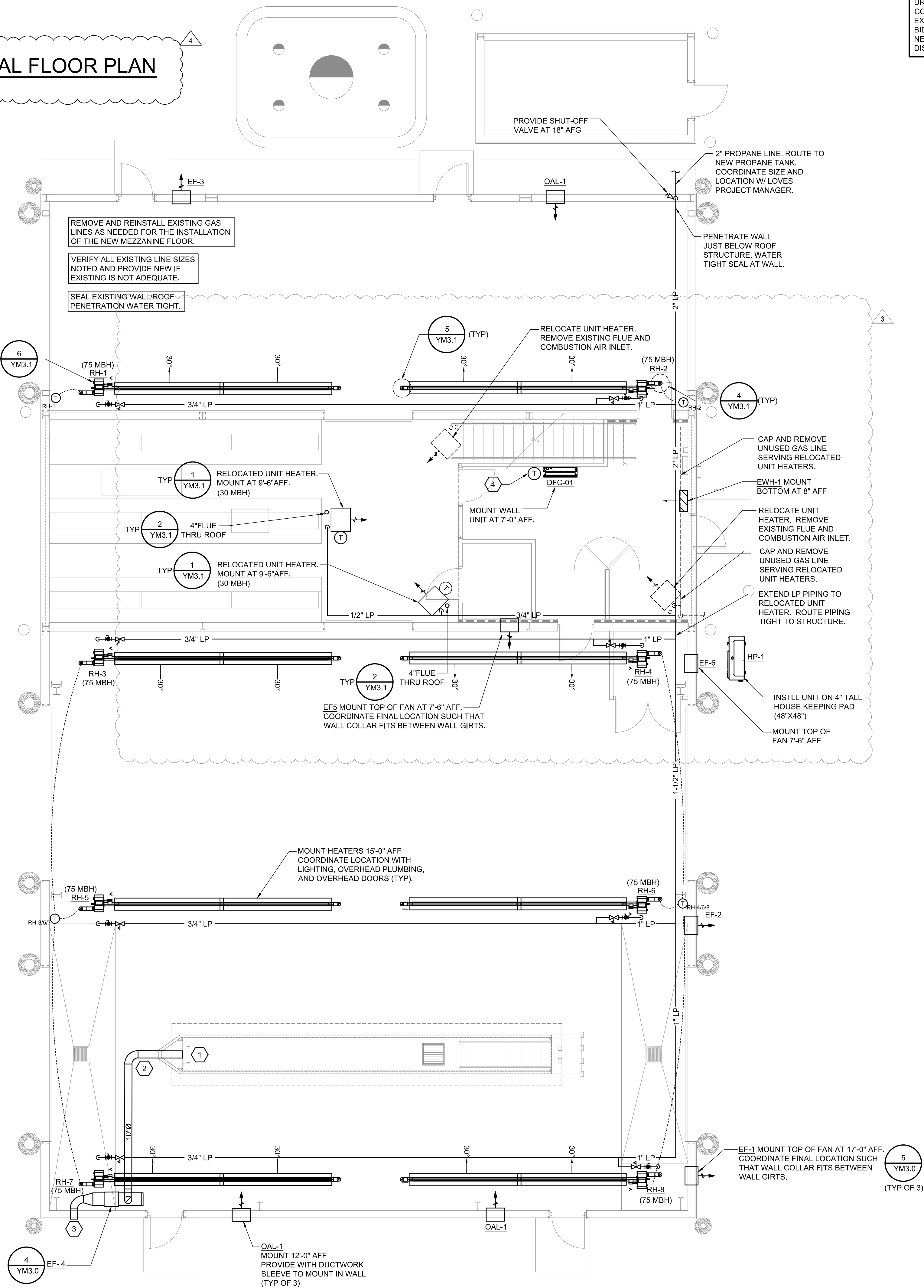


**7 SECTION**  
1 1/2" = 1'-0"



# 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.
4. WALL MOUNTED THERMOSTAT. MOUNT AT 54" AFF. COORDINATE PLACEMENT WITH ANY WALL DECOR & EQUIPMENT. FIELD VERIFY FINAL LOCATION WITH OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.

## PROPANE GAS PIPING NOTES

1. CONTRACTOR SHALL COORDINATE ALL DETAILS OF THE PROPANE GAS PIPING SYSTEM WITH LOVES PROJECT MANAGER. THIS INCLUDES, BUT IS NOT LIMITED TO, THE GAS REGULATOR AT THE TANK, AND THE LOCATION OF THE PROPANE GAS STORAGE TANKS, AND PIPING DOWNSTREAM OF THE GAS REGULATOR AT THE TANK TO EACH GAS-FIRED APPLIANCE. CONTRACTOR SHALL CONTACT LOCAL PROPANE GAS SUPPLIER FOR SUPPLY PRESSURE AND SIZE AND TYPE OF PIPING AND VALVES REQUIRED FOR CONNECTION TO GAS-FIRED APPLIANCES. SERVICE REGULATOR AT TANK TO BE PROVIDED BY PROPANE GAS SUPPLIER. CONTRACTOR SHALL VERIFY CORRECT PROPANE SUPPLY PRESSURE DOWNSTREAM OF SERVICE REGULATOR AFTER PROPANE SUPPLIER COMPLETES INSTALLATION. THE PROPANE GAS DEMAND SHOWN IN MBH IS BASED ON A HEATING VALUE OF 2500 BTU (2.5 MBH) PER CUBIC FOOT, A SPECIFIC GRAVITY OF 1.52, AND ON PRIMARY EQUIPMENT SPECIFICATIONS IN SCHEDULES. PROPANE GAS PIPING SIZES SHALL BE AS NOTED ON PLANS.
2. CONTRACTOR SHALL PROVIDE NEW PROPANE GAS PIPING FOR NEW EQUIPMENT SIZED AS INDICATED FOR 0.5 IN. WC PRESSURE DROP UP TO AND INCLUDING THE REGULATOR AND FINAL CONNECTION TO THE EQUIPMENT. CONNECT AT NEW PROPANE GAS PRESSURE REGULATOR. PROVIDE VALVES, AND ACCESSORIES PER THE SPECIFICATIONS AND LOCAL CODES.
3. PROVIDE START-UP ASSISTANCE FOR ALL GAS-FIRED EQUIPMENT. COORDINATE ADJUSTMENT OF REGULATORS WITH SET-UP PERSONNEL TO ENSURE CORRECT GAS FLOW PRESSURES FOR PROPER OPERATION OF ALL EQUIPMENT.

GAS DEMAND LOAD					
MARK	DESCRIPTION	CONN. SIZE	QTY.	INPUT (MBH)	TOTAL (MBH)
RH-1/RH-8	RADIANT HEATERS - SERVICE BAYS	3/4"	8	75	600
UH-1/2	UNIT HEATER - TIRE STORAGE	3/4"	2	30	60
				COOKING APPLIANCE SUB-TOTAL	0
				WATER HEATING SUB-TOTAL	0
				GAS DEMAND TOTAL	660

NOTES:

1. THE ACTUAL LENGTH TO THE MOST REMOTE APPLIANCE CONNECTION IS 175'. THE SYSTEM IS SIZED FOR A TOTAL DEVELOPED LENGTH OF MAXIMUM 200'.
2. THE SERVICE TO THE BUILDING SHALL BE INSTALLED AS A LOW PRESSURE SUPPLY (INLET PRESSURE OF 11.0 IN W.C.) AND A 0.5" WC PRESSURE DROP.
3. PIPE SIZES SHOWN ON THE FLOOR PLAN ARE BASED ON 2015 INTERNATIONAL FUEL AND GAS CODE. VERIFY FIELD CONDITIONS FOR ACTUAL DEVELOPED LENGTH AND POSSIBLE ADJUSTMENTS TO PIPE SIZES.
4. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY FOR THE PROVISION OF THE COMPLETE METER ASSEMBLY INCLUDING REGULATOR AND VENTING REQUIREMENTS.

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 Meaningful Places

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 t 479.273.7780  
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**REMODEL**

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 MARSHALL, MI 49868

JOB NUMBER: 03-21-30336

ISSUE BLOCK		
3	CCD1	09/20/22
4	CCD4	11/04/22

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



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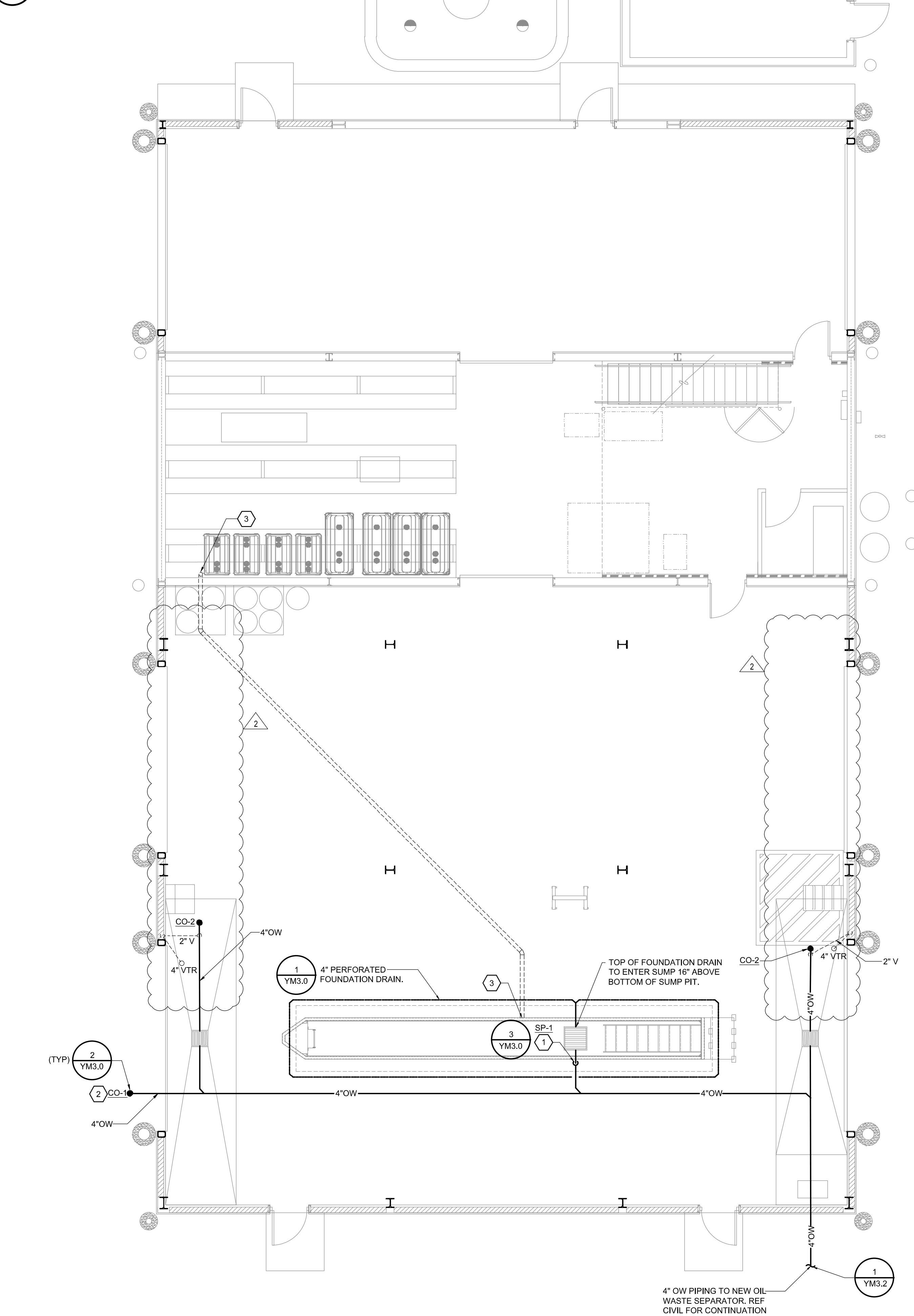
MECHANICAL FLOOR PLAN

SHEET: YM2.0

Nov02:2022:10:03am - User: nathan.taylor  
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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

- 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.
- INSTALL ALL REQUIRED CLEANOUTS TO CLEAR EQUIPMENT AND FIXTURES.
- 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.
- ALL FIXTURES ARE PROVIDED WITH STANDARD TRAP AND CLEANOUT (NOT SHOWN).
- 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.
- 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.
- REFER TO PLUMBING FIXTURE SCHEDULE FOR FIXTURE SPECIFICATIONS.
- UNDERFLOOR PLUMBING IS SHOWN SCHEMATICALLY FOR VIEWING PURPOSES ONLY; DURING INSTALLATION FIELD MODIFICATIONS TO ROUTING MAY BE REQUIRED.
- TERMINATE PLUMBING VENTS AT A MINIMUM OF 10 FEET FROM ALL AIR HANDLING EQUIPMENT INTAKE VENTS.
- 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.
- CONDENSATE PIPING SHALL BE TYPE "L" HARD DRAWN SEAMLESS COPPER TUBE.
- 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.
- CONTRACTOR SHALL PROVIDE AND INSTALL APPROPRIATE SLEEVES AND/OR CAULKING AT ALL PENETRATIONS TO ENSURE FIRE RATING IS MAINTAINED.

## KEYNOTES

- 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.
- PROVIDE CLEANOUT 3' FROM BUILDING EXTERIOR.
- 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.

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2	03/31/22	ADD 2

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DOCUMENT DATE: 05/05/21

STATE OF MICHIGAN  
GREG J. SCHULTERMAN  
ENGINEER  
No. 59341

REGISTERED PROFESSIONAL ENGINEER

2022.03.30 15:38:48-05'00"

PLUMBING FLOOR PLAN

SHEET: YM2.1

Map3D 2023.3.30mm - User: arfwjw.schultz  
C:\Users\arfwjw\OneDrive\Documents\Temp\Map3D\Map3D\_14586\_310\YM2.1\_336.dwg

# 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.

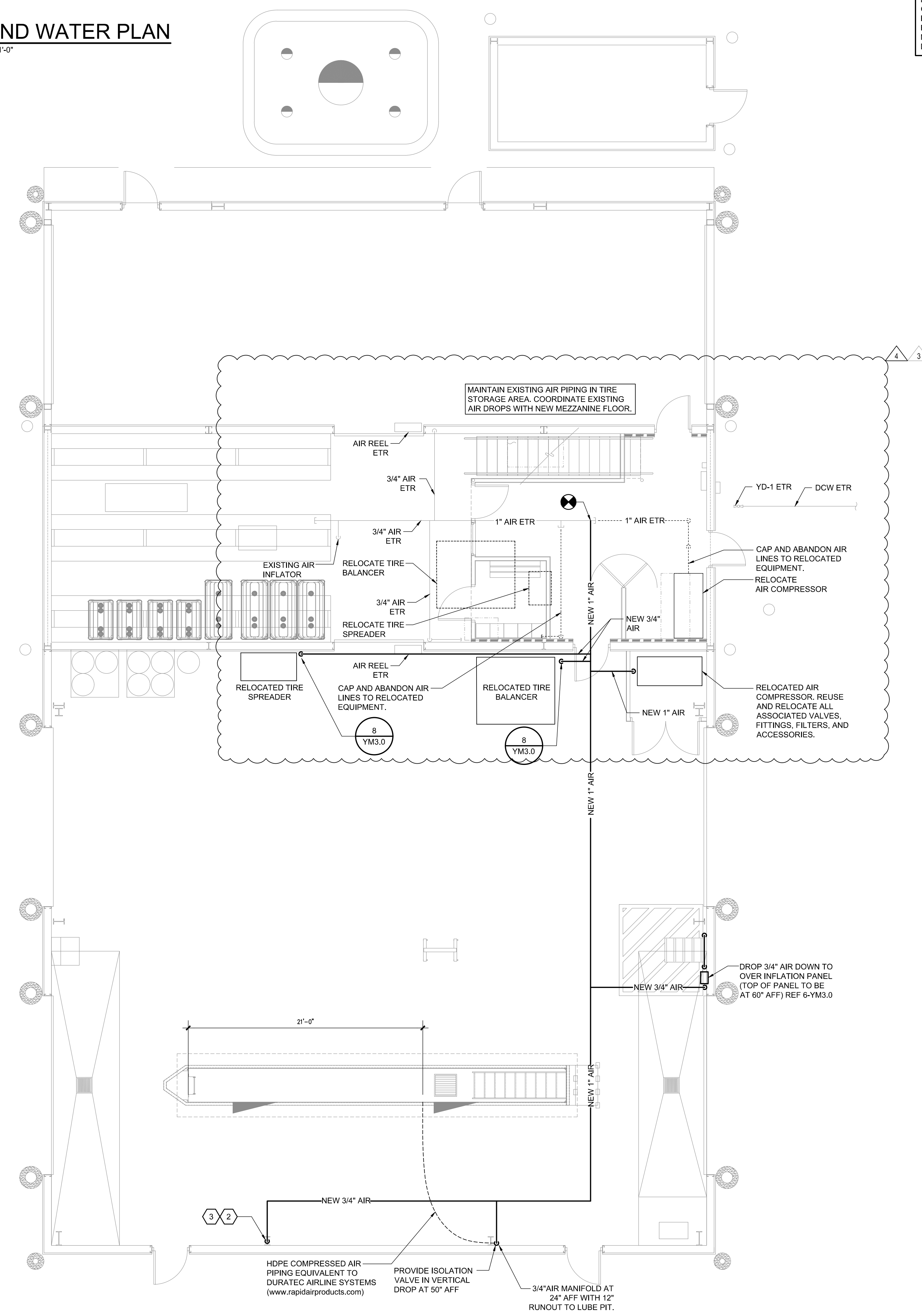
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## GENERAL NOTES

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.)
3. 1/2" AND 3/8" HOSE REEL MOUNTED ON COLUMN, REF DETAIL 7/YM3.0.



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3	CCD1	09/20/22
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STATE OF MICHIGAN

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ENGINEER  
No. 59304

2022.11.02 10:24:56-05'00"

**AIR AND WATER PLAN**

SHEET: **YM2.2**

Nov02:2022:10:03am - User: nathan.taylor  
\\fileserver\2021\Projects\03-21-20336\Levels - Marshall, MI\336196-CD300 Mechanical - Plumbing\310 YM2.2 236.dwg



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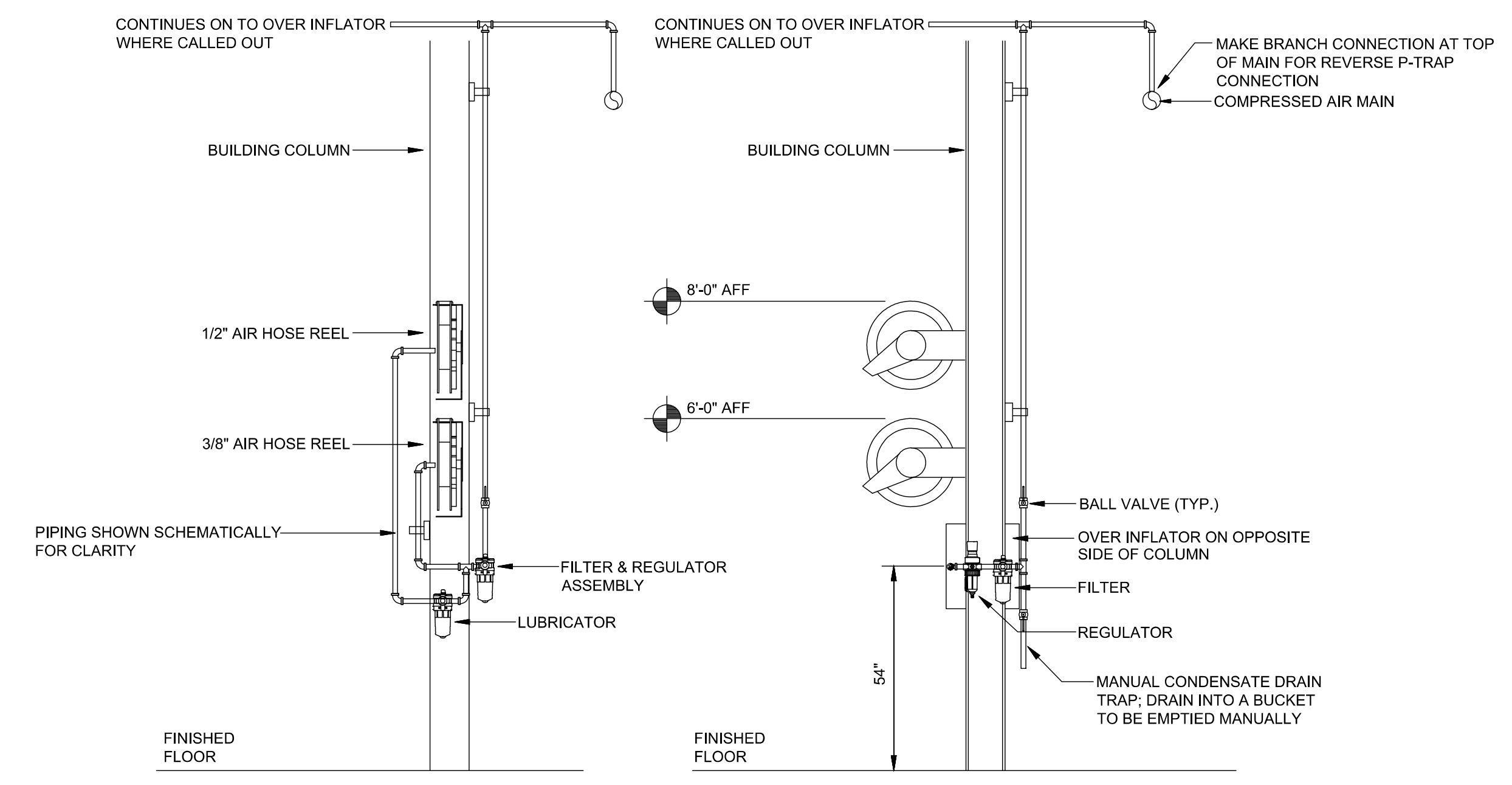
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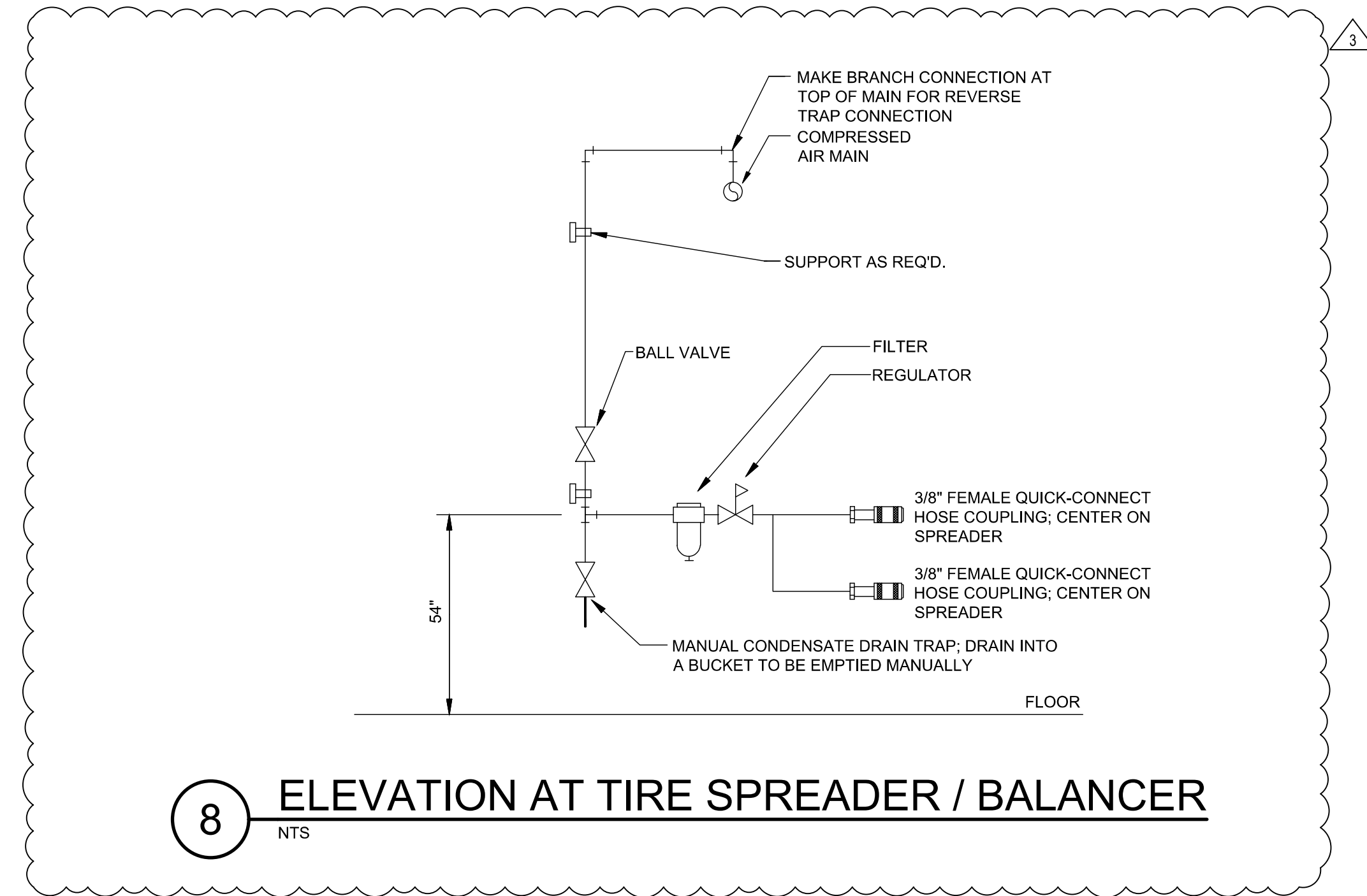
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**MECHANICAL  
DETAILS**

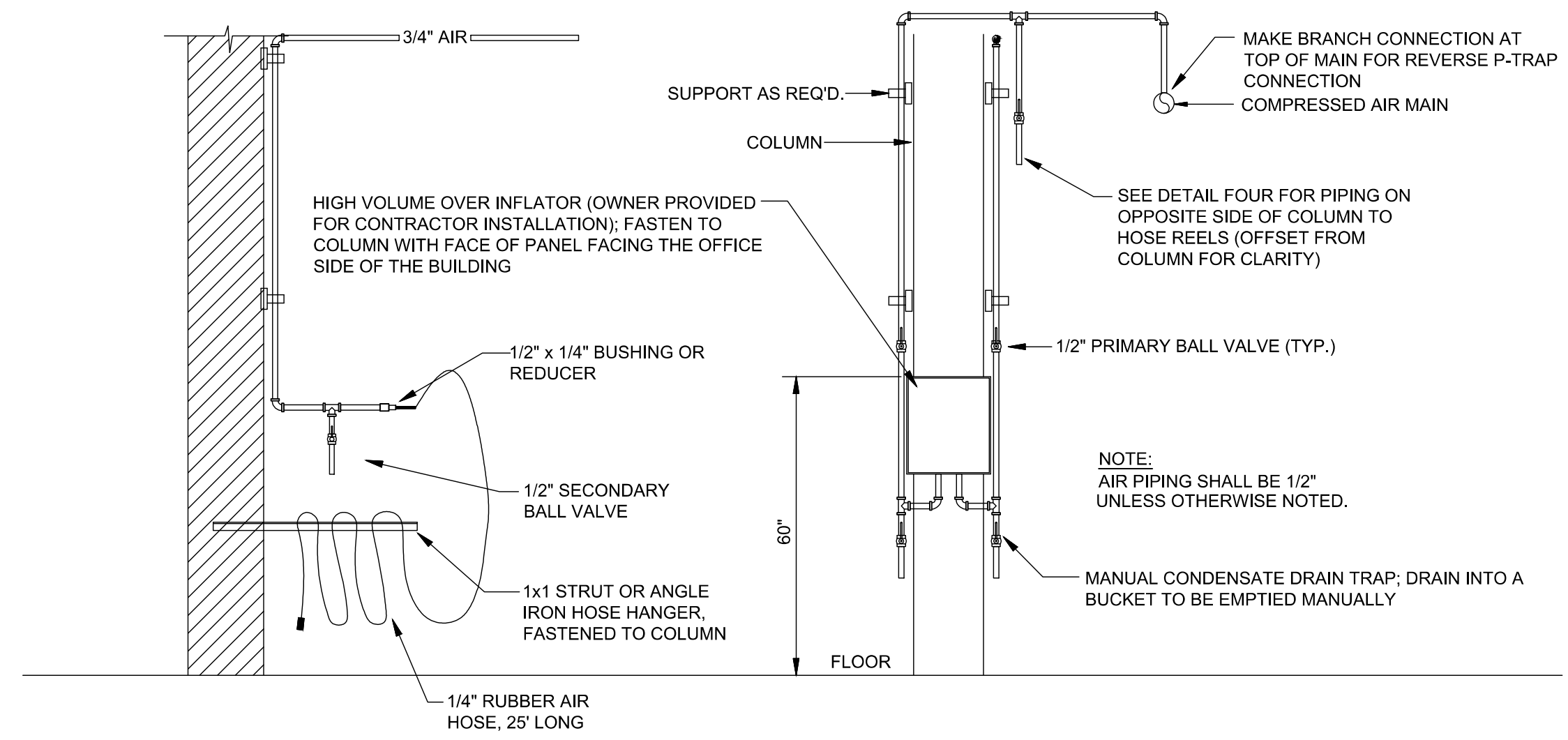
SHEET:  
**YM3.0**



**7 ELEVATION AT AIR REELS**  
NTS

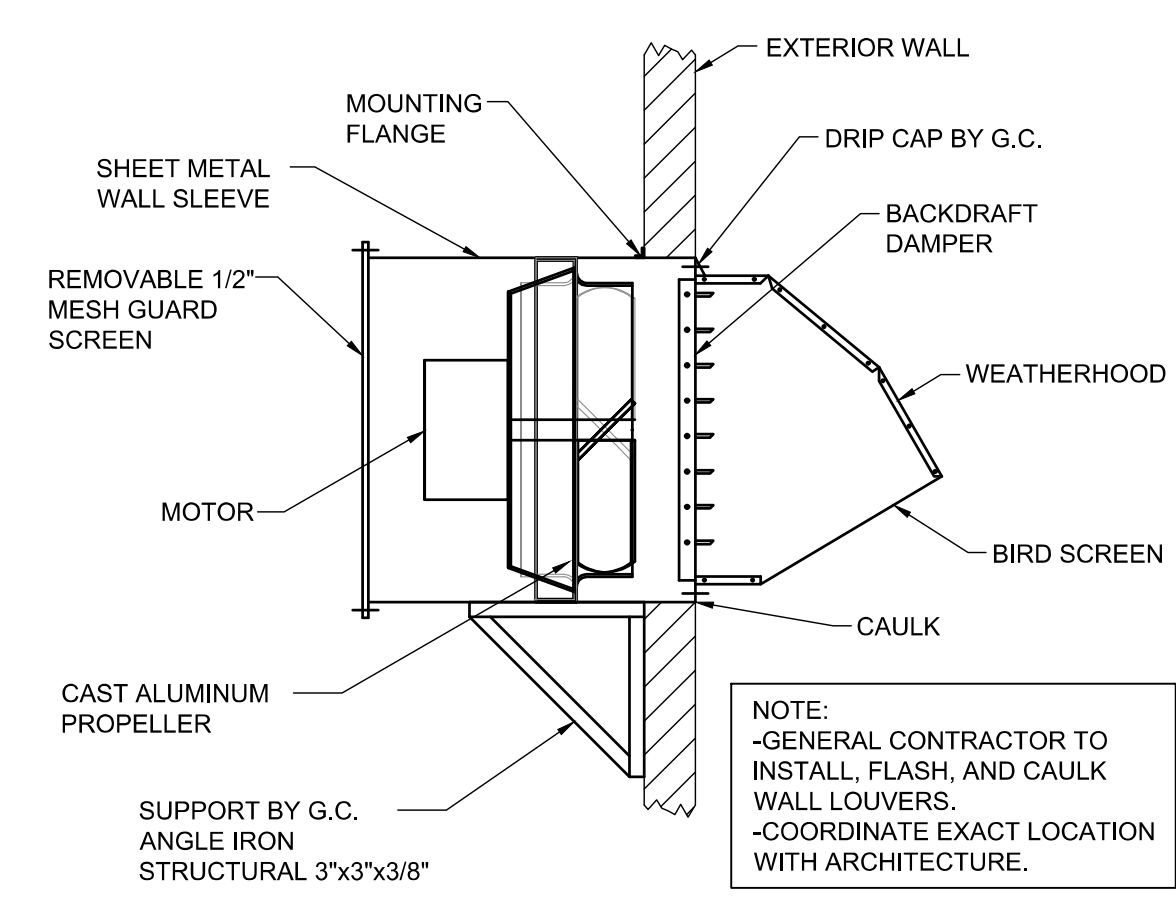


**8 ELEVATION AT TIRE SPREADER / BALANCER**  
NTS

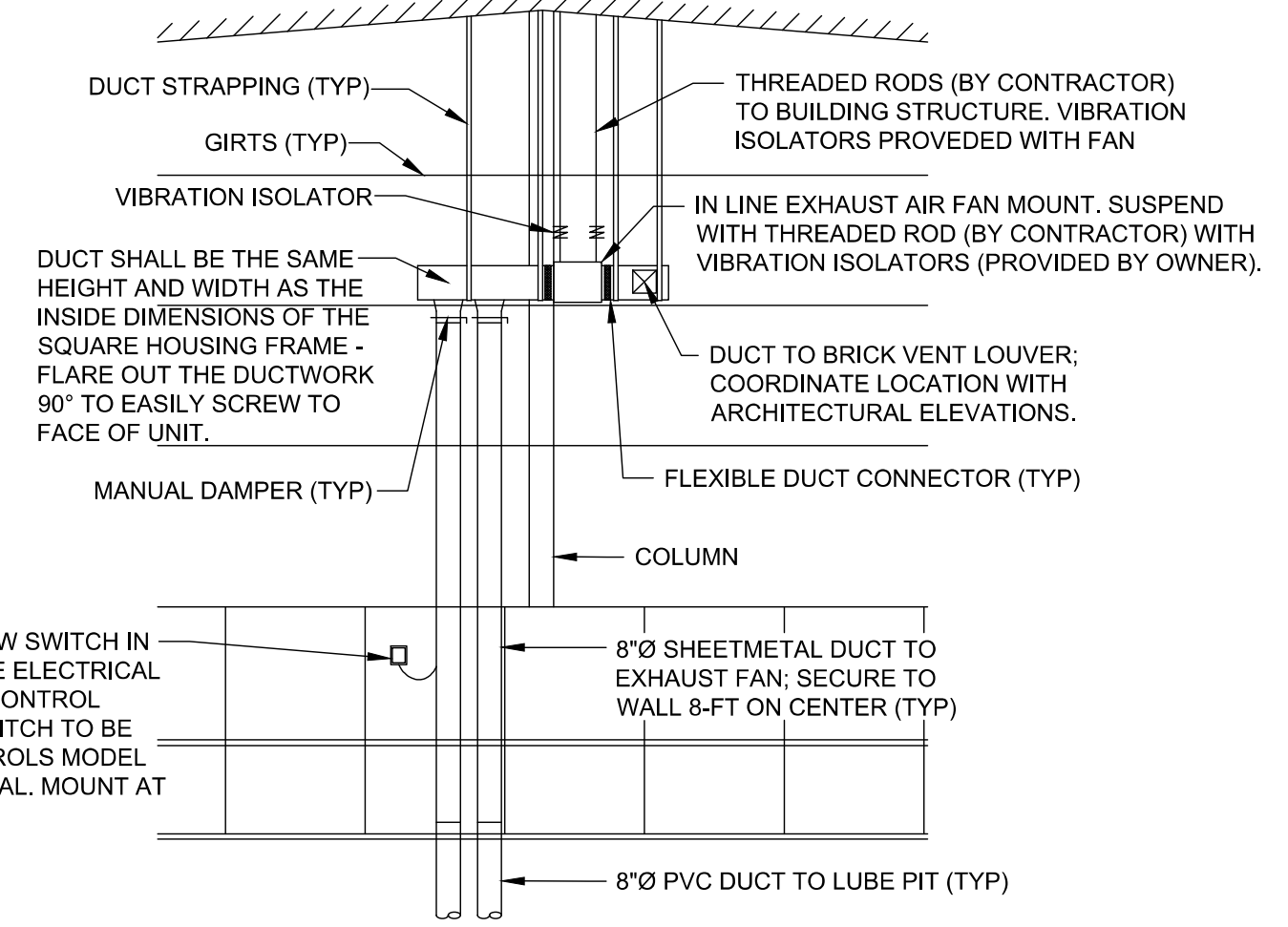


**OPERATION:**  
PRIMARY BALL VALVE IS OPENED, ALLOWING COMPRESSED AIR TO FLOW THROUGH TO TIRE. PRESSURE GAUGE ON THE REGULATOR INDICATES PRESSURE BEING SUPPLIED. PRIMARY VALVE IS CLOSED AND THE GAUGE INDICATES BACK-FEED PRESSURE IN THE TIRE. IN AN OVER-INFLATION OR DANGEROUS TIRE SCENARIO, THE PRIMARY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

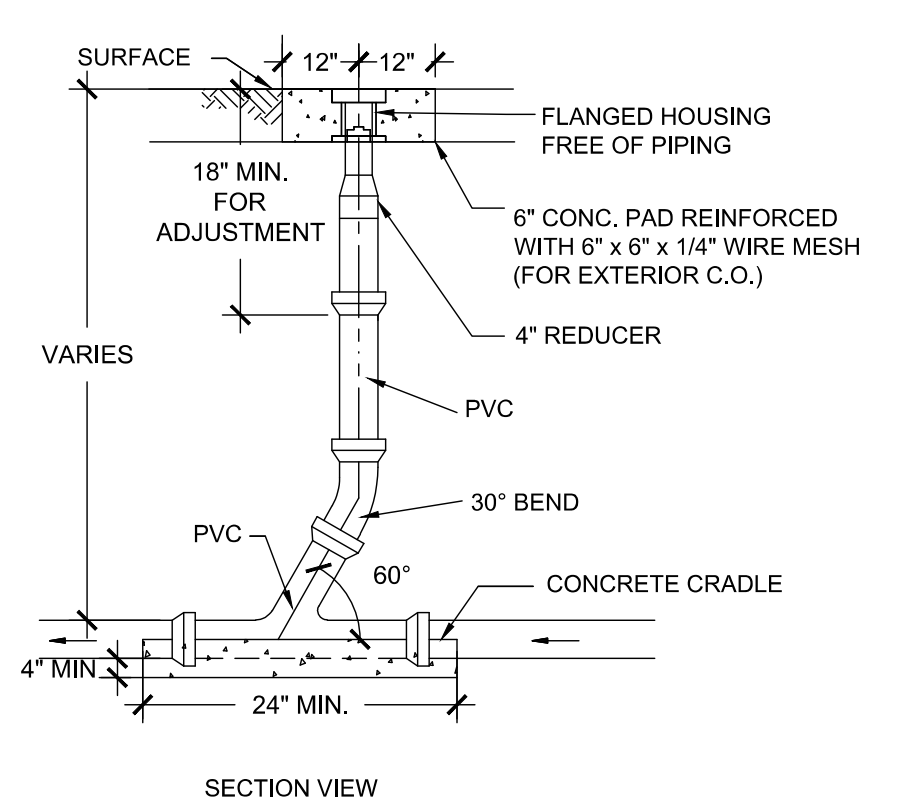
**6 ELEVATION AT REMOTE INFLATION STATION**  
NTS



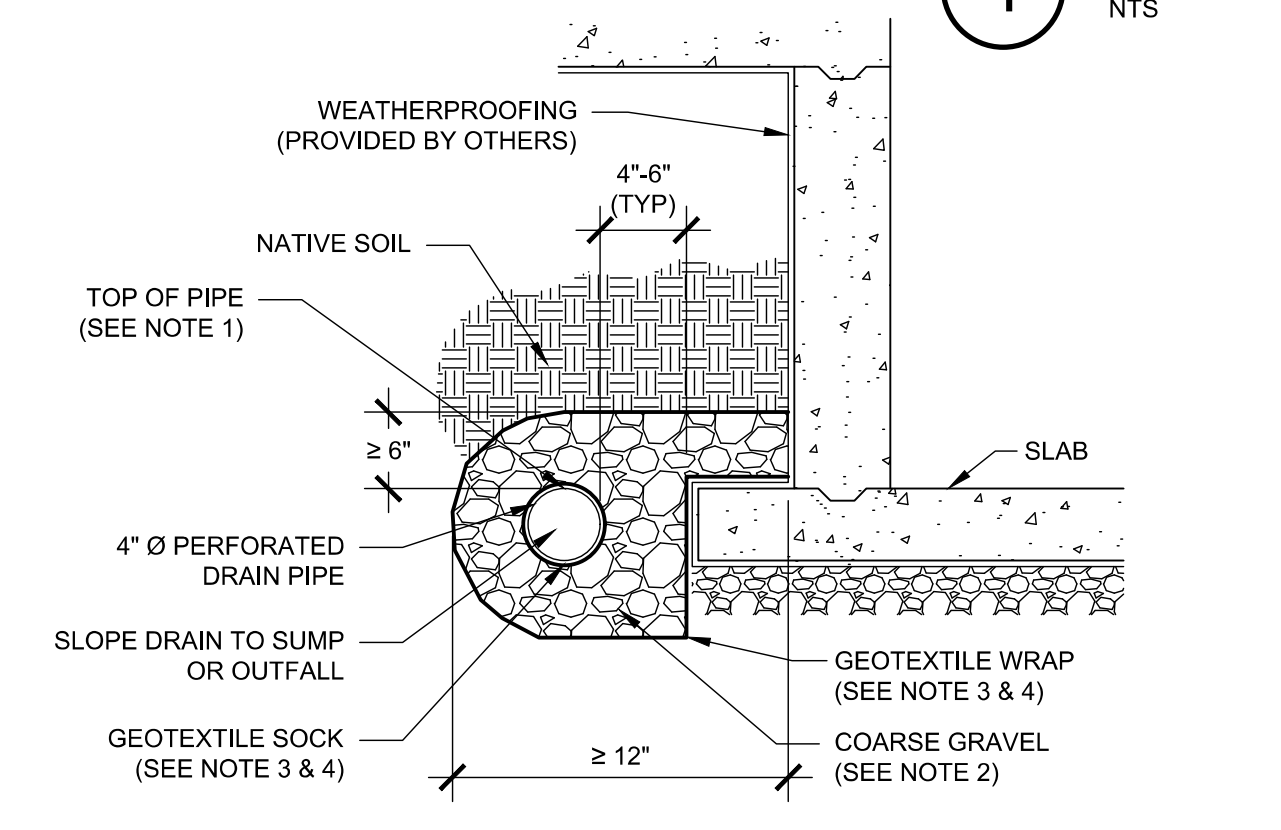
**5 WALL EXHAUST FAN DETAIL**  
NTS



**4 TIRE SHOP EXHAUST FAN SECTION**  
NTS



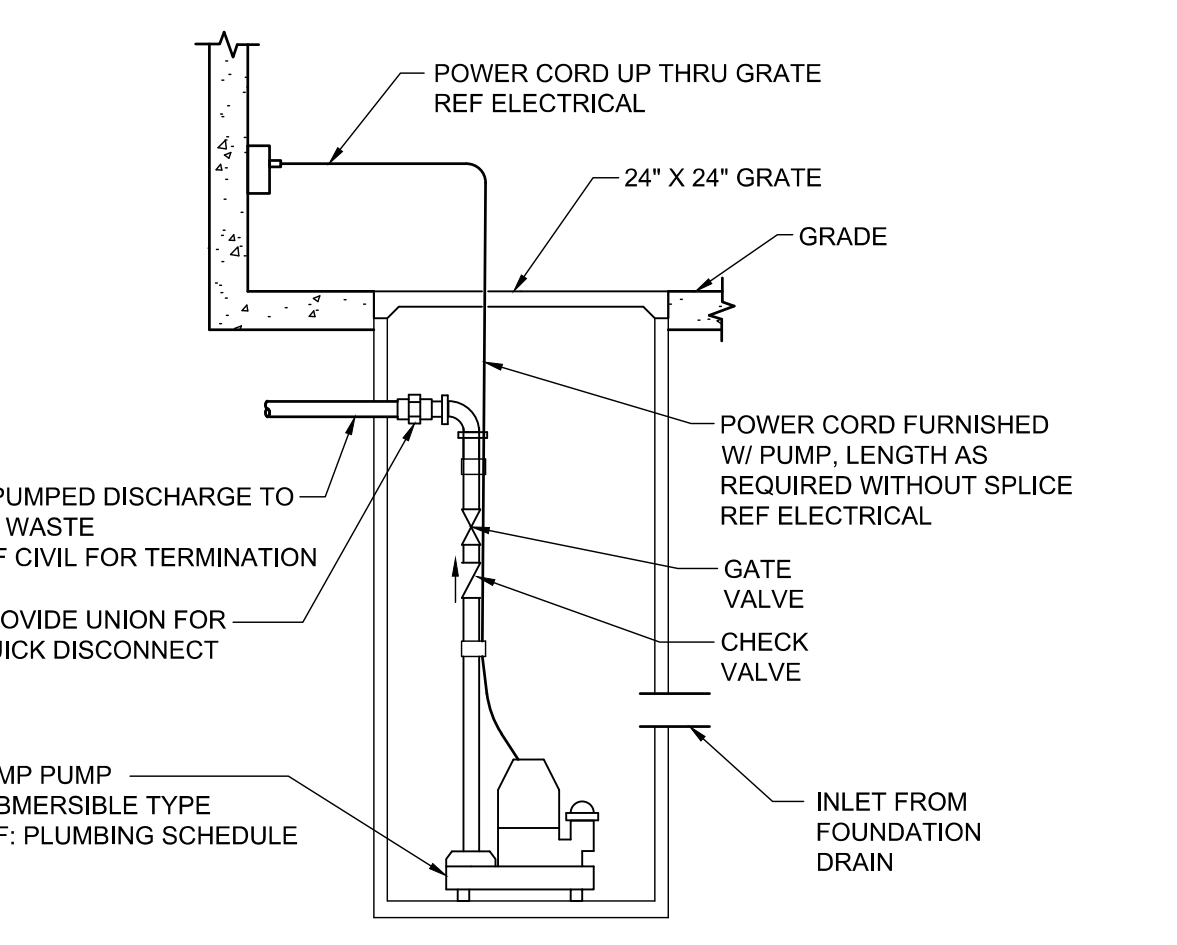
**2 SANITARY SEWER CLEANOUT**  
SCALE: N.T.S.



- NOTES**
- TOP OF PERFORATED PIPE MUST BE AT OR BELOW THE TOP OF FOOTING.
  - 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.
  - 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.
  - 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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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

FAN SCHEDULE										
MARK	AREA SERVED	MANU.	MODEL	FAN			ELEC.			NOTES
				CFM	RPM	ESP	V/PH/Hz	HP		
EF-1	MECHANIC'S BAY	PENNBARRY	P16RA	3130	1500	0.15	120/1/60	1/2	A, C	
EF-2	MECHANIC'S BAY	PENNBARRY	P16RA	3130	1500	0.15	120/1/60	1/2	A, C	
EF-3	MECHANIC'S BAY	PENNBARRY	P16RA	3130	1500	0.15	120/1/60	1/2	A, C	
EF-4	LUBE PIT	PENNBARRY	SX085SCGP	200	1300	0.4	120/1/60	1/8	C, D, E, F	
EF-5	CHANGING ROOM	DAYTON	10D952	470	1775	0.25	120/1/60	1/30	A, C	
EF-6	COMP ROOM	MARKEL	CE-18DS	1550	1775	0.25	120/1/60	1/8	D, E	

GENERAL INFORMATION:  
 1. UNITS PROVIDED BY OWNER, INSTALLED BY CONTRACTOR.

NOTES:  
 A. FAN SHALL BE SWITCHED. REF ELEC.  
 B. PROVIDE MANUFACTURER INTEGRAL DISCONNECT, GRAVITY BACKDRAFT DAMPER, AND BIRD SCREEN.  
 C. PROVIDE MANUFACTURER INTEGRAL DISCONNECT, GRAVITY BACKDRAFT DAMPER, BIRD SCREEN, AND WEATHER SHIELD.  
 D. PROVIDE WITH PLUG TYPE DISCONNECT  
 E. WIRE TO RUN CONTINUOUS  
 F. PROVIDE WITH 12" X 12" BRICK VENT

PUMP SCHEDULE									
MARK	MANUFACTURER/ MODEL	TYPE	WORKING FLUID	GPM	DISCHARGE PRESSURE (FT)	MOTOR HP	ELEC VOLT/PH	NOTES	
SP-1	ZOELLER MIGHTY MATE 53	SUBMERSIBLE SUMP PUMP	OIL/WATER	10	17	1/3	115/1	1	

NOTES:  
 1. PROVIDE WITH DISCHARGE CHECK VALVE AND DECOUPLING UNION.

SPECIALTY PUMBLING SCHEDULE									
MARK	FIXTURE	MANUFACTURER	MODEL	DESCRIPTION					
CO-1	EXTERIOR CLEANOUT	JAY R. SMITH	4250	HEAVY DUTY DURACOAT CAST IRON BODY WITH DOUBLE FLANGE HOUSING AND SCORIATED CAST IRON COVER WITH LIFTING DEVICE SECURED WITH COUNTERSUNK SCREWS.					
CO-2	INTERIOR CLEANOUT	JAY R. SMITH	4221	HEAVY DUTY CAST IRON BODY AND DRAPE WITH ROUND ADJUSTABLE TOP, AND SCORIATED CAST IRON COVER SECURED WITH COUNTERSUNK SCREWS					

NOTES:  
 1. NOT ALL FIXTURES LISTED MAY BE USED ON PLANS  
 2. ALL FLOOR DRAINS, FLOOR SINKS, AND ROOF DRAINS SHALL BE PROVIDED AND INSTALLED BY THE PLUMBING CONTRACTOR.  
 3. SEE SPECIFICATION SECTION SHEET M1.

AIR DEVICE SCHEDULE														
MARK	MANUFACTURER	MODEL	SERVICE	NECK SIZE (IN.)	MODULE SIZE	MAX. AIRFLOW RATE (CFM)	STATIC PRESSURE DROP (IN H2O)	THROW @50 FPM (FT)	MAXIMUM NC RATING	PATTERN	THROW DIRECTION	MATERIAL	BORDER	NOTES
A	NAILOR	6145H-HD-AL	EXHAUST	10"Ø	12"X12"	300	0.02	--	--	--	--	ALUMINUM	SURFACE	1-5

NOTES:  
 1. BORDER TYPES SHALL BE COMPATIBLE WITH ARCHITECTURAL CEILING TYPE FOR THE ROOM IN WHICH THE AIR DEVICE IS LOCATED.  
 2. SEE HVAC PLANS FOR LOCATION AND AIR QUANTITIES OF EACH AIR DEVICE.  
 3. ALL AIR DEVICES SHALL BE TESTED IN ACCORDANCE WITH ASHRAE STANDARD 70-91.  
 4. NC VALUES ARE BASED UPON A 10 dB ROOM ATTENUATION.  
 5. OWNER PROVIDED AND CONTRACTOR INSTALLED. REFER TO SPECIFICATIONS

LOUVER SCHEDULE										
MARK	MANUFACTURER	MODEL	LOCATION	NECK SIZE (IN.)	TYPE	MAX. AIRFLOW RATE (CFM)	STATIC PRESSURE DROP (IN H2O)	FREE AREA (SQ. FT.)	AIR VELOCITY	NOTES
OAL-1	NAILOR	1606DAF	SERVICE BAY	30"X30"	DRAINABLE	1700	0.05	2.72	625	1-2

NOTES:  
 1. PROVIDE WITH ALUMINUM BIRD SCREEN.  
 2. PROVIDE WITH KYNAR/HLAR (70% PVDF) FINISH; COLOR TO BE SELECTED BY ARCHITECT.

SPLIT-DUCTLESS FAN COIL SCHEDULE													
MARK	MANUFACTURER/ MODEL	TYPE	OPERATION	SUPPLY FAN		COOLING CAPACITY		HEATING CAPACITY		ELECTRICAL		NOTES	
				CFM	OSA (CFM)	SENS.	TOTAL	SENS.	TOTAL	VOLT/PH	FLA		WEIGHT
DFC-01	SAMSUNG AC018MNADCH/AA	WALL MOUNTED	COOLING	580	0	---	18,000	---	20,000	208/1	0.7	24	1-6

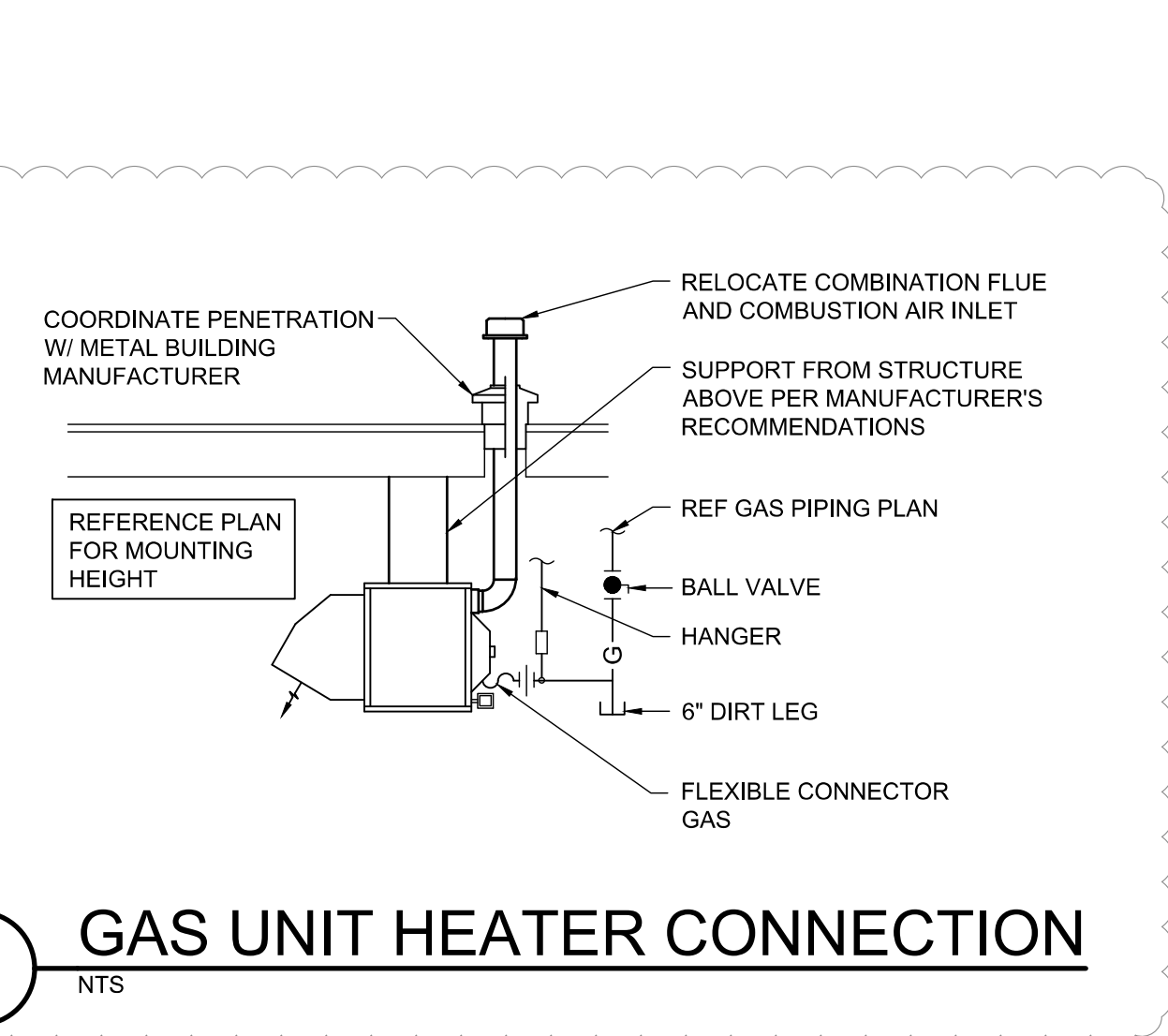
NOTES:  
 1. PROVIDE BY OWNER FOR INSTALLATION BY CONTRACTOR  
 2. CONTRACTOR SHALL VERIFY WITH EQUIPMENT SUPPLIER THE SIZE OF REFRIGERANT PIPING  
 3. INSTALL PER MANUFACTURER'S RECOMMENDATIONS  
 4. PROVIDE WIRED REMOTE THERMOSTAT (MWR-WE13UN)  
 5. ROUTE CONDENSATE TO BUILDING EXTERIOR

AIR COOLED CONDENSING UNIT SCHEDULE									
MARK	MANUFACTURER/ MODEL	CAPACITY (TONS)	ELECTRICAL VOLT/PH	MCA	MOCP	WEIGHT	NOTES		
HP-01	SAMSUNG AC018JXADCH/AA	1.5	208/1	10	15	99	1-6		

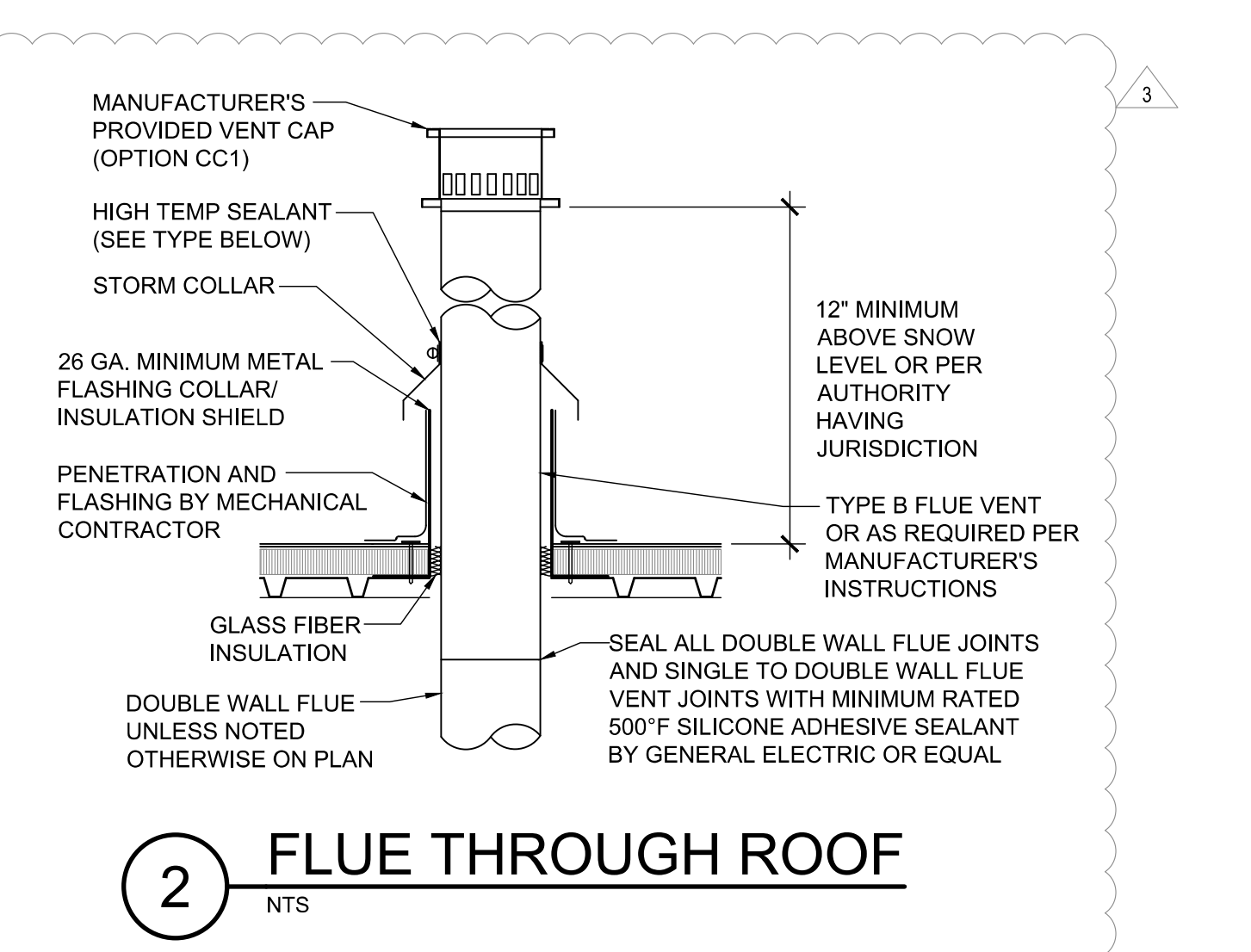
NOTES:  
 1. CONDENSING UNIT ID CORRESPOND WITH INDOOR SYSTEM ID  
 2. PROVIDED BY OWNER FOR INSTALLATION BY CONTRACTOR  
 3. PROVIDE COIL HAIL GUARD  
 4. PROVIDE LOW AMBIENT WIND BAFFLE KIT  
 5. INSTALL PER MANUFACTURER'S RECOMMENDATIONS  
 6. MANUFACTURER'S REPRESENTATIVE CONTACT: JOE SANDERS (405) 947-6502

ELECTRIC UNIT HEATER SCHEDULE										
MARK	MANUFACTURER/ MODEL	LOC. AT ROOM	TYPE	FAN CFM	CAPACITY WATTS	BTUS	MOTOR HP	RPM	ELECTRICAL (VOLT/PH)	NOTES
EW-1	MARKEL HF3325TD-RP	RESTROOM	WALL	175	2250	7677	1/8	600	208/1	1

NOTES:  
 1. BASED ON MARKEL 3320 SERIES UNIT HEATER MODEL HF3325TD-RP. PROVIDE WITH INTEGRAL THERMOSTAT, INTEGRAL DISCONNECT, AND FACTORY MOUNTING BRACKET. UNIT AND ACCESSORIES PROVIDED BY OWNER FOR INSTALL BY CONTRACTOR.



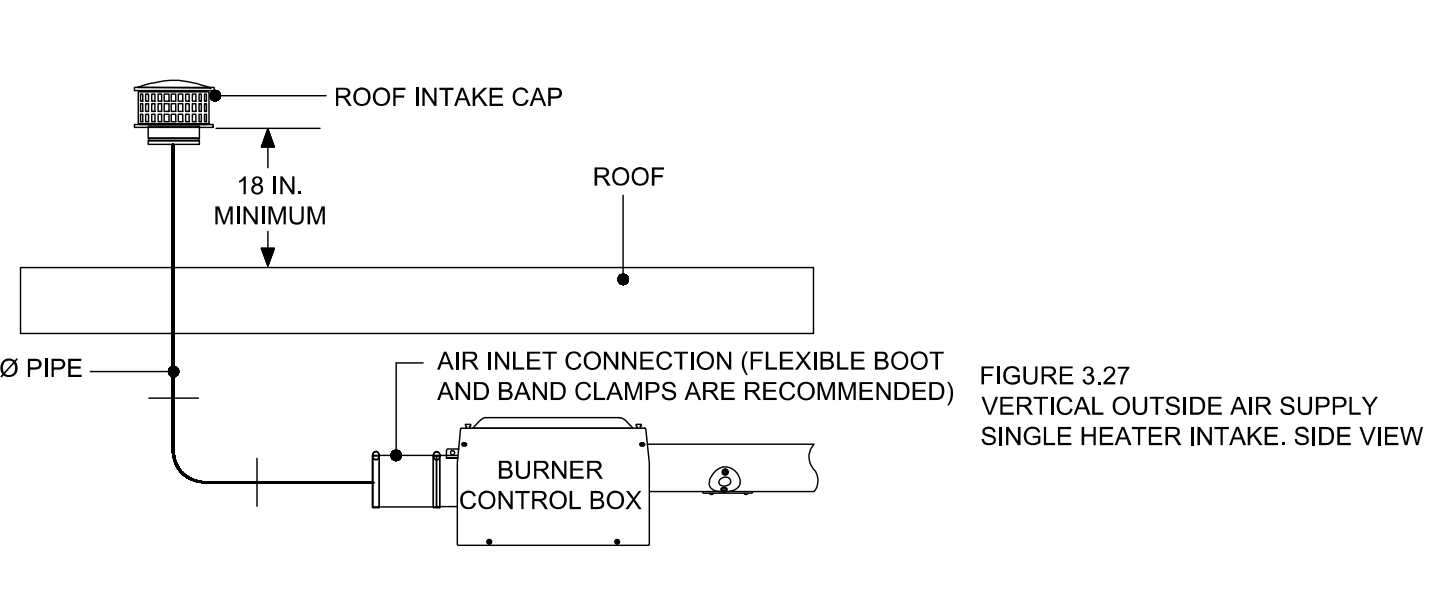
1 GAS UNIT HEATER CONNECTION  
NTS



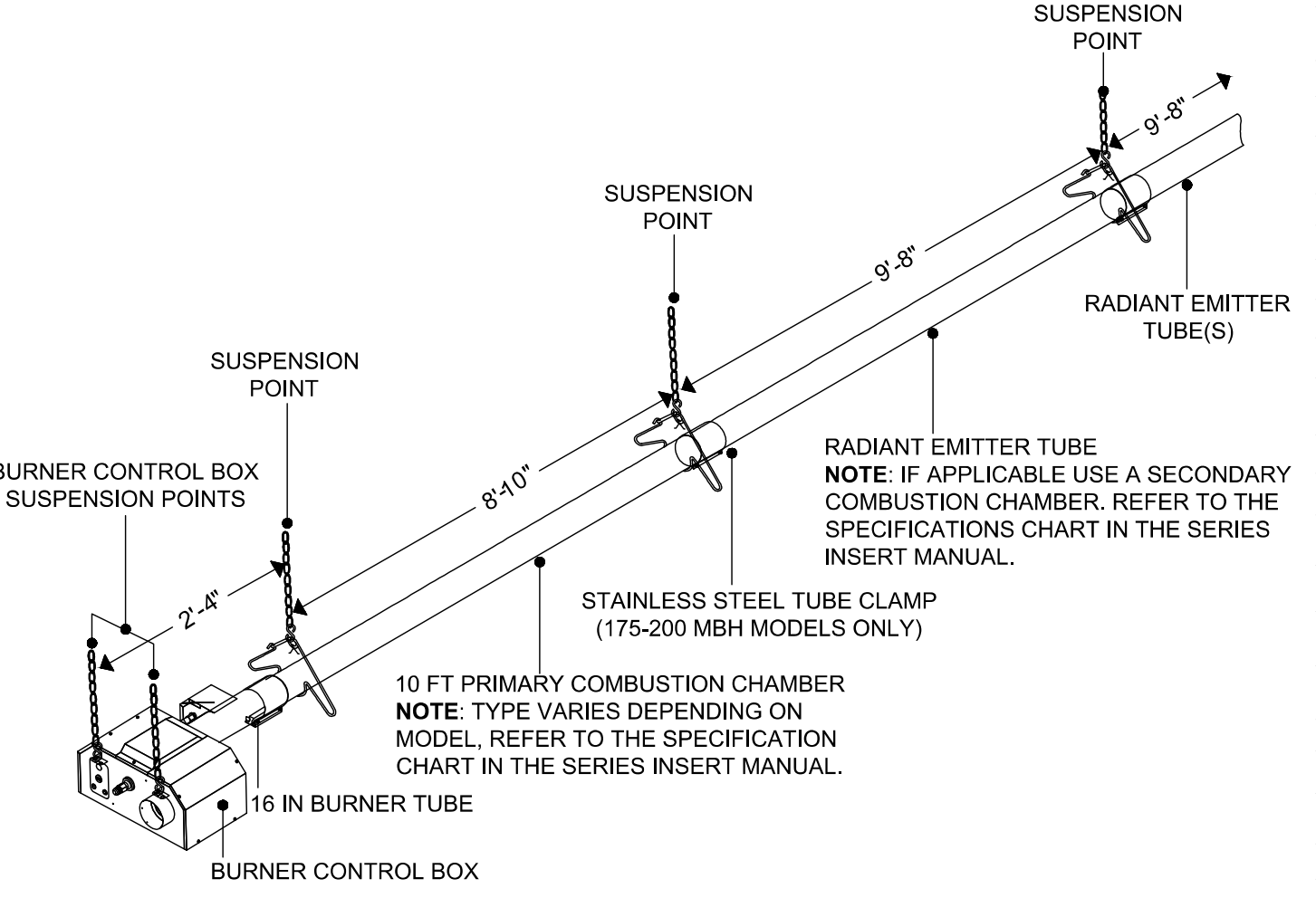
2 FLUE THROUGH ROOF  
NTS

INFRARED HEATER SCHEDULE										
MARK	MANUFACTURER/ MODEL	LOCATION	TYPE	HEATING DATA			ELECTRICAL DATA			NOTES
				INPUT LOAD (BTU/H)	OUTPUT LOAD (BTU/H)	WORKING FLUID	FULL LOAD AMPS (FLA)	MAXIMUM OVER-CURRENT PROTECTION	VOLT/PH	
RH-1 - RH-8	RE-VERBER-RAY HL3-20-75/50	SERVICE BAY	INFRARED	75,000	60,000	PROPANE	4.8	15	120/1	1-8

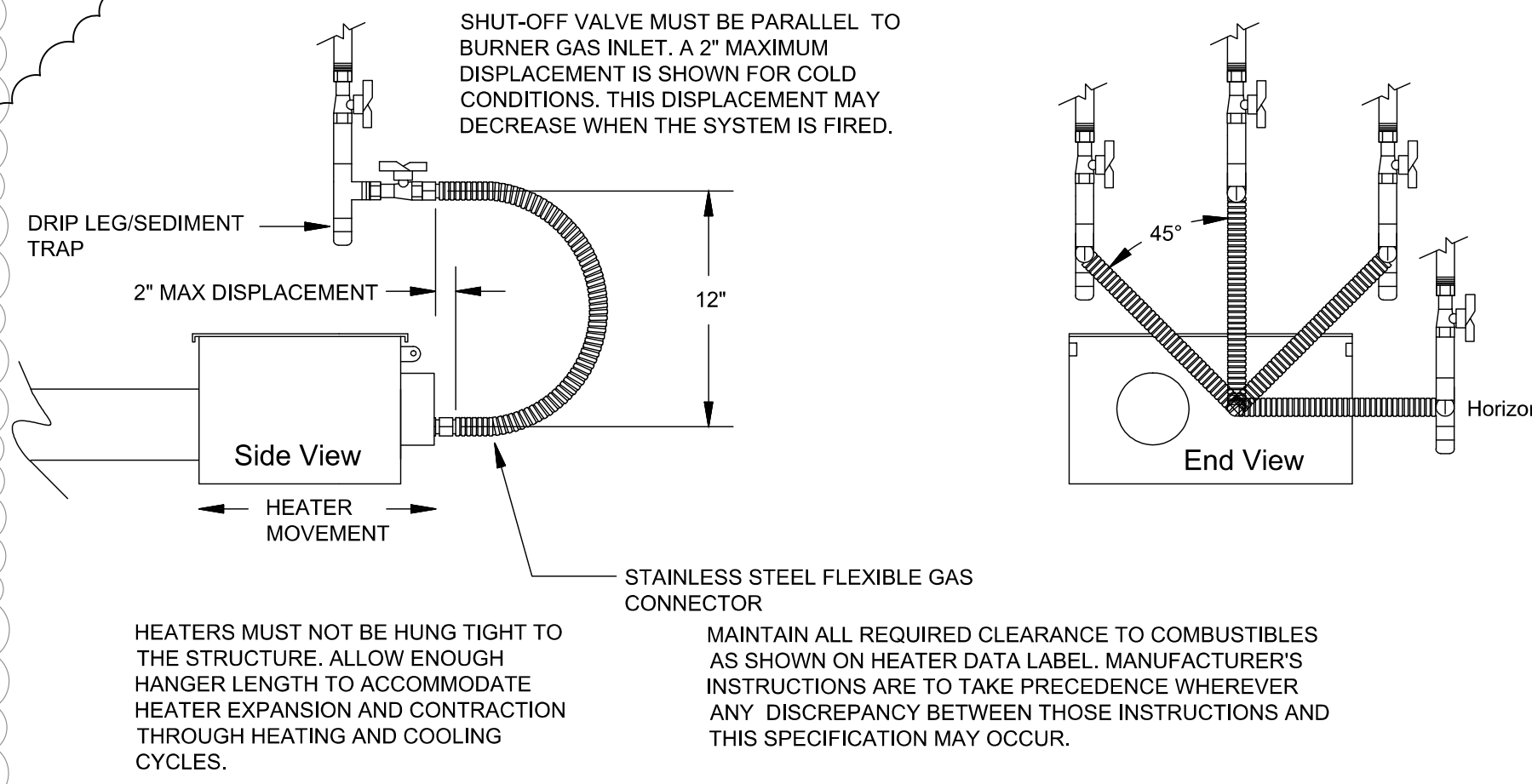
NOTES:  
 1. PROVIDE WITH SAFETY SHUT-OFF VALVE AND PARABOLIC REFLECTOR SET AT 30° (WHERE INDICATED).  
 2. CONTROLLED BY SINGLE LOW VOLTAGE THERMOSTAT. SEE FLOOR PLAN.  
 3. FIELD SUPPLIED AND INSTALLED 120 VOLT TO 24 VOLT TRANSFORMER FOR THERMOSTAT.  
 4. MOUNT AT 15-FT ABOVE FURNISHED FLOOR.  
 5. MOUNT WARNING PLAQUE BELOW HEATERS TO RESTATE THE CLEARANCE TO COMBUSTIBLE.  
 6. ADJUST BURNER FOR SITE ALTITUDE.  
 7. PROVIDED BY OWNER FOR INSTALLATION BY MECHANICAL CONTRACTOR.  
 8. PROVIDED WITH FACTORY INSTALLED PROPANE KIT.



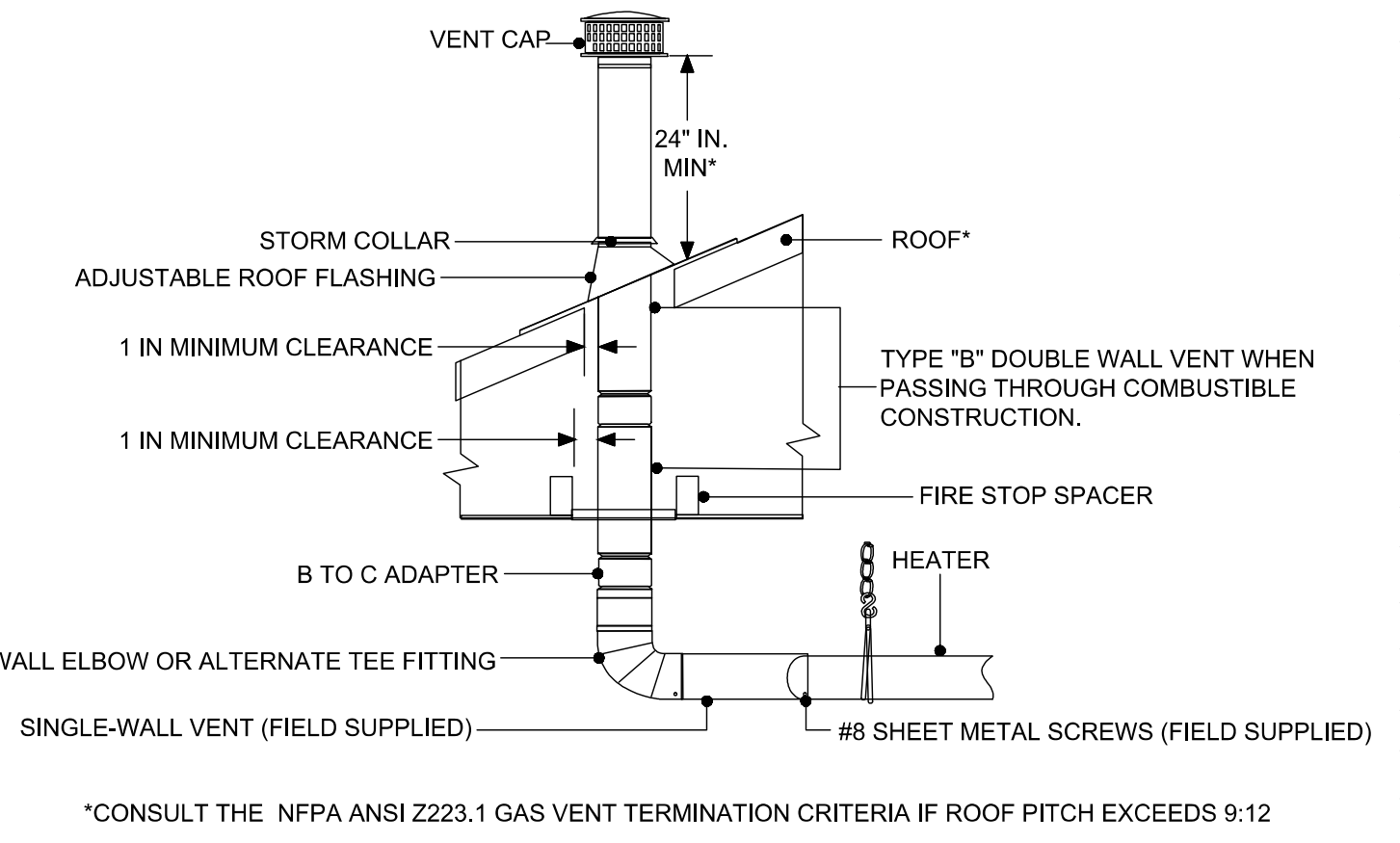
4 COMBUSTION AIR INTAKE DETAIL  
NTS



3 TYPICAL HEATER HANGER DETAILS  
NTS



6 TYPICAL GAS CONNECTION  
NTS



5 GENERAL VENTING SCHEMATIC  
NTS

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New02.2022.10103am - User: rambach, taylor  
 Title: HFA/2022-1 Project: 03-21-2023/36 - Lower - Marshall, MI 33016-CD3000 Mechanical - Plumbing 320 YAKI, 1 326 Aug

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 GREG J. SCHULTERMAN  
 ENGINEER  
 No. 59304

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MECHANICAL SCHEDULES

SHEET:  
**YM3.1**

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JOB NUMBER: 03-21-20336

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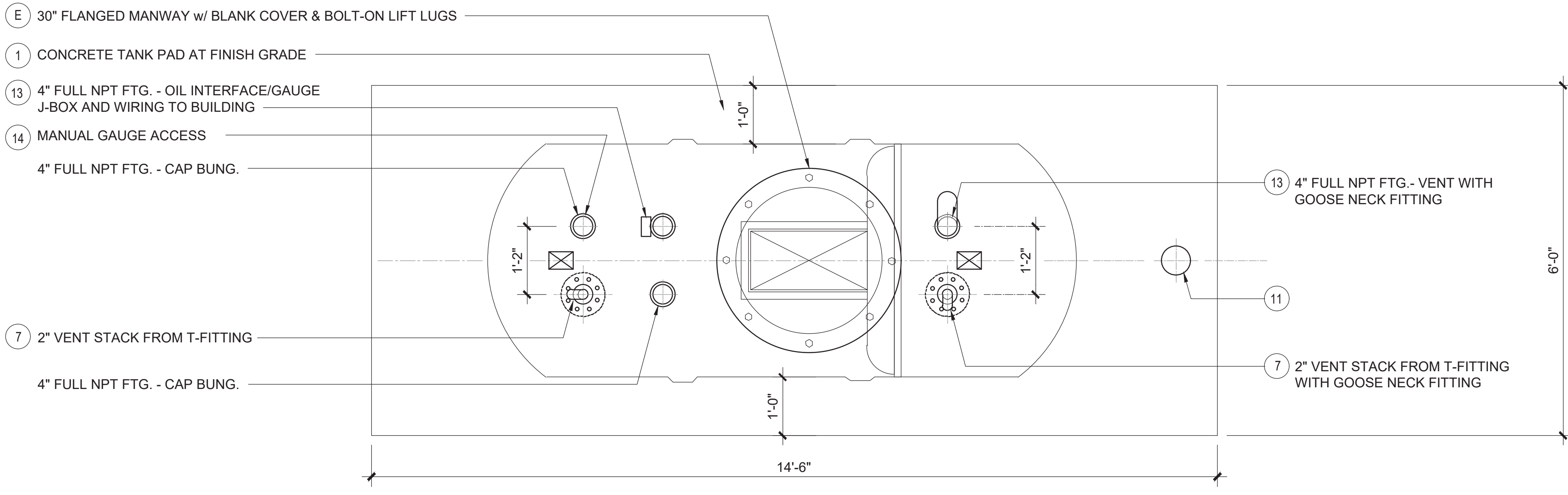
**OIL/WATER SEPARATOR DETAILS**  
SHEET: **YM3.2**

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

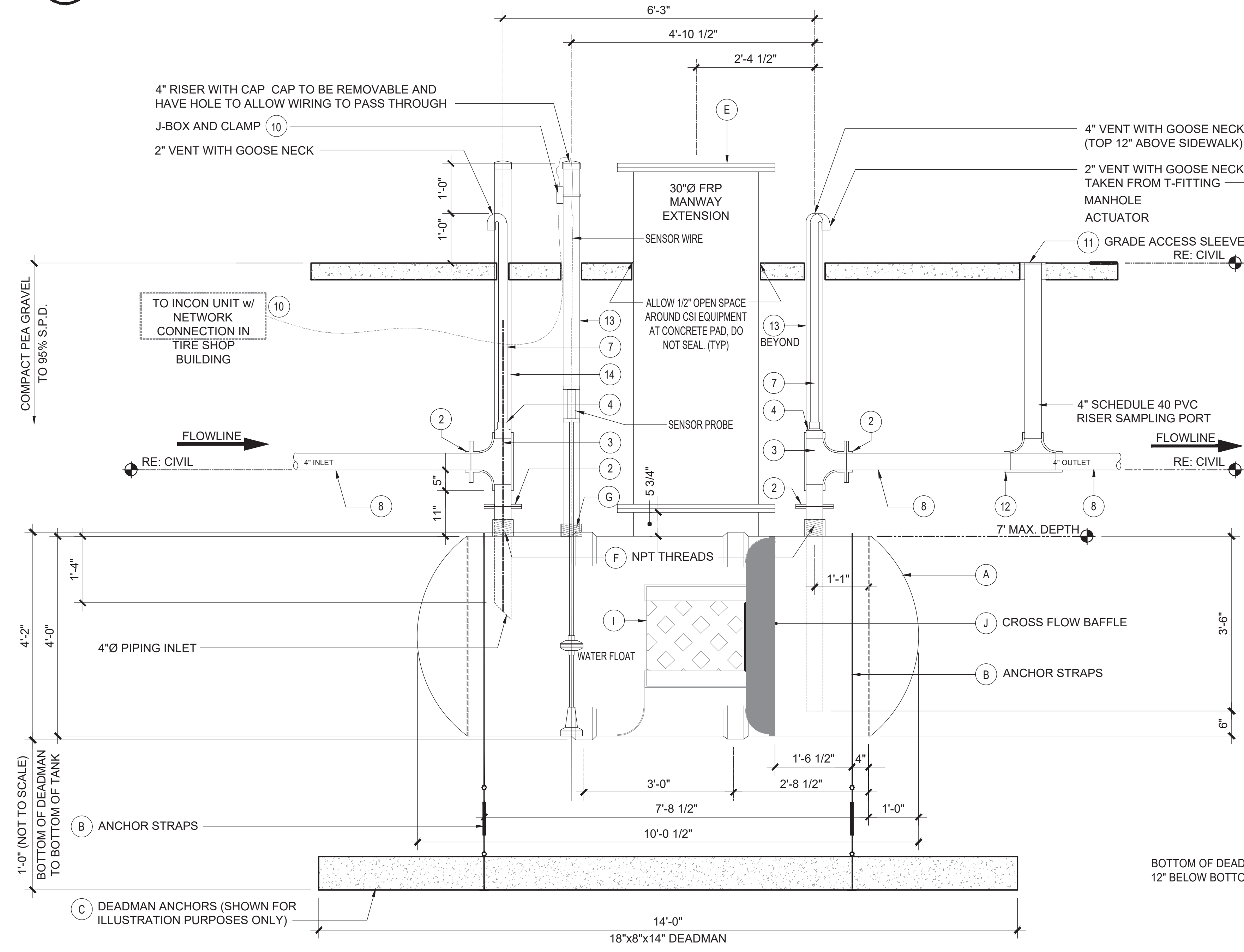
CONTAINMENT SOLUTIONS CONROE, TEXAS SWT  
(4) 550 OWS CSI - 10 - PROVIDED BY OWNER,  
INSTALL IN TANK HOLE BY FUEL CONTRACTOR

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.

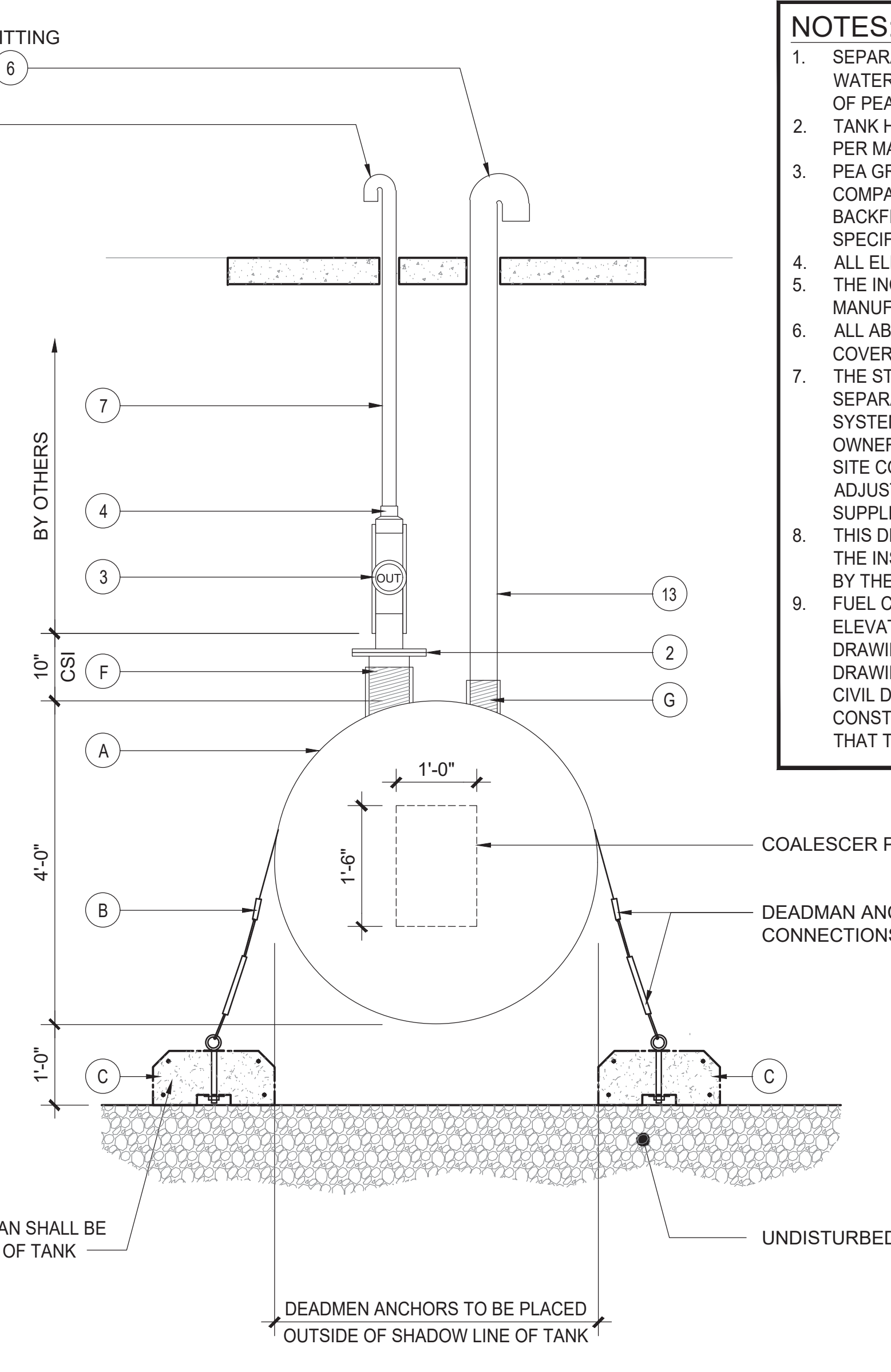
SEPARATOR DESIGN	
MAX. INFLUENT CAPACITY (IN):	400 PPM
MAX. EFFLUENT CAPACITY (OUT):	10 PPM
MAX. FLOW RATE:	55 GPM
OIL STORAGE CAPACITY:	190 GAL.
OIL SPILL CAPACITY:	785 GAL.
DRY WEIGHT:	425 LBS



**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 columns: SYMBOL, 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.

HFA Creative Solutions Meaningful Places
HARRISON FRENCH & ASSOCIATES, LTD
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ISSUE BLOCK table with columns for issue tracking.

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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

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.

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...

**PANELBOARD NOTES ( )**

- (1) TERMINATE GROUND ON ISOLATED GROUND BUS.
- (2) INSTALL LOCKING DEVICE FURNISHED WITH PANELBOARD (LOCK-OFF FOR MAINTENANCE).
- (3) INSTALL LOCKING DEVICE FURNISHED WITH PANELBOARD (LOCK-ON FOR CRITICAL LOAD).
- (4) GFI BREAKER FOR PERSONNEL PROTECTION (5 mA).
- (5) GFI BREAKER FOR EQUIPMENT PROTECTION (30 mA).
- (6) CONDUCTOR SIZE HAS BEEN INCREASED FOR VOLTAGE DROP. SIZE EQUIPMENT GROUNDING CONDUCTOR PROPORTIONALLY PER NEC.
- (7) FACTORY WIRED TO LOAD.
- (8) THRU CONTACTOR.
- (9) EXISTING CIRCUIT BREAKER TO REMAIN. VERIFY CONDITION OF CIRCUIT BREAKER TO ENSURE THAT IT IS OPERATIONAL AND MEETS ALL U.L. RATINGS.
- (10) EXISTING CIRCUIT TO REMAIN.
- (11) PROVIDE HANDLE LOCK OFF DEVICE TO LOCK "SPARE" CIRCUIT BREAKER IN THE "OFF" POSITION. IF CIRCUIT BREAKER IS IDENTIFIED AS "EXISTING", FIELD VERIFY CIRCUIT BREAKER INDICATED IS NOT CONNECTED TO ANY LOAD AND UPDATE PANELBOARD CIRCUIT DIRECTORY IDENTIFYING CIRCUIT AS "SPARE".
- (12) TRACE EXISTING CIRCUIT. IDENTIFY LOAD AND PROVIDE COMPLETE TYPEWRITTEN PANELBOARD IDENTIFICATION SCHEDULE AND PLACE ON INTERIOR OF PANELBOARD DOOR. IF CIRCUIT IS A "SPARE" THEN REFER TO PANELBOARD NOTE (11).
- (13) PROVIDE LISTED HANDLE TIE AS INDICATED FOR MULTIWIRE BRANCH CIRCUIT.
- (14) REFER TO ONE-LINE DIAGRAM FOR WIRE SIZES.
- (15) ROUTE CIRCUIT THROUGH LUBE PIT CONTROL RELAY.

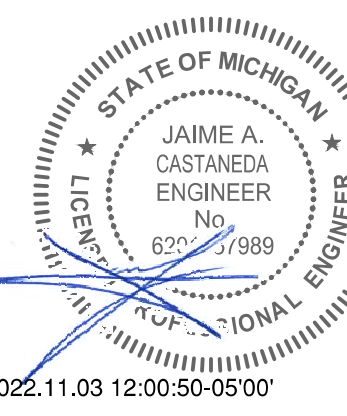
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**SCHEDULES & NOTES**

**LIGHTING FIXTURE SCHEDULE**

TYPE	MANUFACTURER	CATALOG #	DESCRIPTION	VOLTS	WATTS	MOUNTING	REMARKS	FURNISHED BY
EM3	LITHONIA	ELA LED T WP M12	EMERGENCY LIGHT	9.6	1	CEILING / WALL	REMOTE EMERGENCY FIXTURE HEADS	OWNER
GG	US LED	DS-402U-2-UNV-QB3-NC-1-L	LED WALL PACK	120	42.5	WALL	WALL PACK	OWNER
JB	LITHONIA	JEBL 18L 50K 80CRI WH	IP65 RATED LED HIGH BAY	120	136	PENDANT	PENDANT MOUNT AT 18'-0" TO BOTTOM OF FIXTURE	OWNER
MI	BODINE	ELI-S-250	EMERGENCY LIGHTING INVERTER	120	250	SURFACE		OWNER
T4	EATON	4SNLED-LD5-64HL-UNV-L850-CD1-L-LOV-U	4' LINEAR LED STRIP LIGHT - HIGH OUTPUT	120	43	SURFACE	MOUNT TO BOTTOM OF STRUCTURE	OWNER
T8	EATON	8SNLED-LD5-64HL-UNV-L850-CD1-L-LOV-U	8' LINEAR LED STRIP LIGHT - HIGH OUTPUT	120	124	SURFACE	MOUNT TO BOTTOM OF STRUCTURE	OWNER
T8E	EATON	8SNLED-LD5-64HL-UNV-L850-CD1-EL14W-LOV-U	8' LINEAR LED STRIP LIGHT - HIGH OUTPUT, EMERGENCY	120	124	SURFACE	MOUNT TO BOTTOM OF STRUCTURE	OWNER
X	LITHONIA	LHQM LED R HO M6	EMERGENCY LIGHT	120	5	CEILING / WALL	EMERGENCY FIXTURE WITH 90 MINUTE BATTERY BACK-UP	OWNER
TD	COOPER	PDR7733326-4VT3-LD5-4-WPC-UNV-L850-CD1-S-W/VT3-SS-SBK	VAPORTIGHT LED FIXTURE / MOUNTING BRACKET	120	31	SURFACE	USE CEILING MOUNT BRACKET	OWNER
TDE	COOPER	PDR7733326-4VT3-LD5-4-WPC-UNV-EL10W-L850-W/VT3-SS-SBK	EMERGENCY VAPORTIGHT LED FIXTURE / MOUNTING BRACKET	120	31	SURFACE	USE CEILING MOUNT BRACKET	OWNER

**LT EXISTING PANELBOARD** 208Y/120V, 3PH, 4W  
200A M.C.B. 42,000 AIC  
SURFACE MOUNT  
GROUND BAR  
ISOLATED GROUND BAR

SERVES: TIRE SHOP  
LOCATION: BELOW MEZZANINE  
FED FROM: UTILITY

CK	LOAD SERVED	WIRE	BRKR	PL	PHASE A	PHASE B	PHASE C	PL	BRKR	WIRE	LOAD SERVED	CK	
1	air compressor (10)	--	90	3	5.54	0.70			1	20	--	air dryer (10)	2
3	--					5.54	1.00		1	20	12	TIRE SPREADER (9)	4
5	--						5.54	1.00	1	20	--	inflation cage (10)	6
7	TIRE BALANCER (9)	10	30	3	1.60	0.60			2	50	6	WELDER (N)	8
9	--					1.60	0.60		--	--	--	--	10
11	--						1.60	0.72	1	20	--	receptacles (10)	12
13	WELDER (9)	6	50	2	4.20	0.54			1	20	--	receptacles (10)	14
15	208V/1PH				4.20	0.20			1	20	--	bldg sign (10)	16
17	spare (11)	--	20	1			0.00	0.70	1	20	--	bldg sign (10)	18
19	WELDER (N)	6	50	2	0.60	0.24			1	20	--	door sign (10)	20
21	208V/1PH				0.60	0.72			1	20	--	lg rec - computer station (10)	22
23	WELDER (N)	6	50	2			0.60	0.72	1	20	--	ltg - parking lot (10)	24
25	208V/1PH				0.60	9.76			3	100	--	PANEL LT3 (N,14)	26
27	WELDER (9)	6	50	2		9.14			--	--	--	--	28
29	208V/1PH						0.60	9.58	--	--	--	--	30
TOTAL CONNECTED					24.4	24.2	21.1				KVA		
TOTAL CONNECTED					203.1	201.6	175.5				AMPS		
TOTAL LOAD					69.6	KVA	193.3				AMPS		
PER NEC ARTICLE 220 FEEDER LOAD					69.9	KVA	194.1				AMPS		

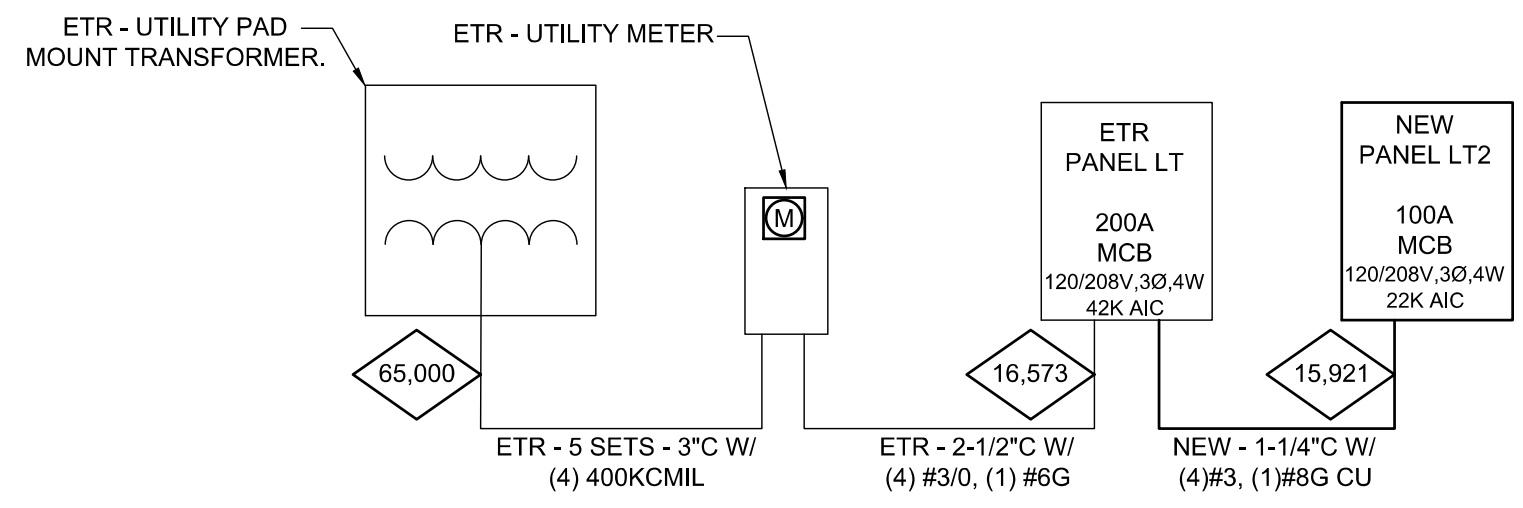
**LT2 NEW PANELBOARD** 208Y/120V, 3PH, 4W  
100A M.C.B. 42,000 AIC, SERIES RATED  
SURFACE MOUNT  
GROUND BAR

SERVES: TIRE SHOP  
LOCATION: BELOW MEZZANINE  
FED FROM: PANEL LT

CK	LOAD SERVED	WIRE	BRKR	PL	PHASE A	PHASE B	PHASE C	PL	BRKR	WIRE	LOAD SERVED	CK	
1	LTG - OIL PIT (N,15)	12	20	1	0.26	0.56			2	20	12	ADO-1 (N)	2
3	LTG - INT EMERGENCY (N)	12	20	1		0.65	0.56		--	--	208V/1PH	4	
5	LTG - SERVICE BAY (N)	12	20	1			1.09	0.56	2	20	12	ADO-2 (N)	6
7	LTG - WORKBAY WALLPACKS (N)	12	20	1	0.27	0.56			--	--	208V/1PH	8	
9	LTG - WORKBAY WALLPACKS (N)	12	20	1		0.27	0.86		1	20	12	EF-1 (N)	10
11	LTG - MECHANICS BAY (N)	12	20	1			0.95	0.86	1	20	12	EF-2 (N)	12
13	MADDENCO (N)	12	20	1	0.36	0.86			1	20	12	EF-3 (N)	14
15	LTG - SHOP (N)	12	20	1		0.99	1.20		1	20	12	OIL PIT SUMP PUMP (N,4,15)	16
17	REC - SERVICE BAY (N)	12	20	1			0.90	0.10	1	20	12	LUBE PIT RELAY PILOT (N,3)	18
19	REC - DESK (N)	12	20	1	0.36	1.20			1	20	12	PUMP STATION (N,2)	20
21	REC - MECHANICS BAY (N)	12	20	1		0.72	0.00		1	20	--	SPARE (N)	22
23	REC - MECHANICS BAY (N)	12	20	1			0.72	0.00	1	20	--	SPARE (N)	24
25	REC - EXTERIOR (N)	12	20	1	0.72	0.00			1	20	--	SPARE (N)	26
27	REC - SERVICE BAY (N)	12	20	1		1.08	0.26		1	20	12	RH-1 & RH-2 (N)	28
29	RH-3, RH-5, RH-7 (N)	12	20	1			0.40	0.40	1	20	12	RH-4, RH-6, RH-8 (N)	30
31	LTG - EXTERIOR (N)	12	20	1	0.43	0.56			2	20	12	ADO-3 (N)	32
33	SPARE (N)	--	20	1		0.00	0.56		--	--	208V/1PH	34	
35	EF-4 (N)	12	20	1			0.86	0.56	2	20	12	ADO-4 (N)	36
37	EF-6 (N)	12	20	1	0.86	0.56			--	--	208V/1PH	38	
39	SPARE (N)	--	20	1		0.00	0.56		2	20	12	ADO-5 (N)	40
41	SPARE (N)	--	20	1			0.00	0.56	--	--	208V/1PH	42	
43	SPARE (N)	--	20	1	0.00	0.56			2	20	12	ADO-6 (N)	44
45	SPARE (N)	--	20	1		0.00	0.56		--	--	208V/1PH	46	
47	SPARE (N)	--	20	1			0.00	1.38	2	20	12	OIL FILTER CRUSHER (N,2)	48
49	EW-1 (N,2)	12	20	2	1.13	1.38			--	--	208V/1PH	50	
51	208V/1PH						1.13	1.04	2	15	12	HP-1 (N)	52
53	SPACE								--	--	120/208V/1PH	54	
TOTAL CONNECTED					10.6	10.4	10.4				KVA		
TOTAL CONNECTED					88.5	87.0	86.4				AMPS		
TOTAL LOAD					31.4	KVA	87.2				AMPS		
PER NEC ARTICLE 220 FEEDER LOAD					31.3	KVA	86.8				AMPS		
100%					0.10	100%	0.10				KVA		
125%					0.00	125%	0.00				KVA		
LIGHTING					4.90	125%	6.13				KVA		
MOTORS					17.6	100%	17.6				KVA		
RECEPTACLES*					4.50		4.50				KVA		
KITCHEN					0.00	100%	0.00				KVA		
REFRIGERATION					0.00	100%	0.00				KVA		
HVAC - COOLING**					2.08	0%	0.00				KVA		
HVAC - HEAT**					2.25	100%	2.25				KVA		
LARGEST MOTOR					2.76	25%	0.69				KVA		
							31.3				KVA		

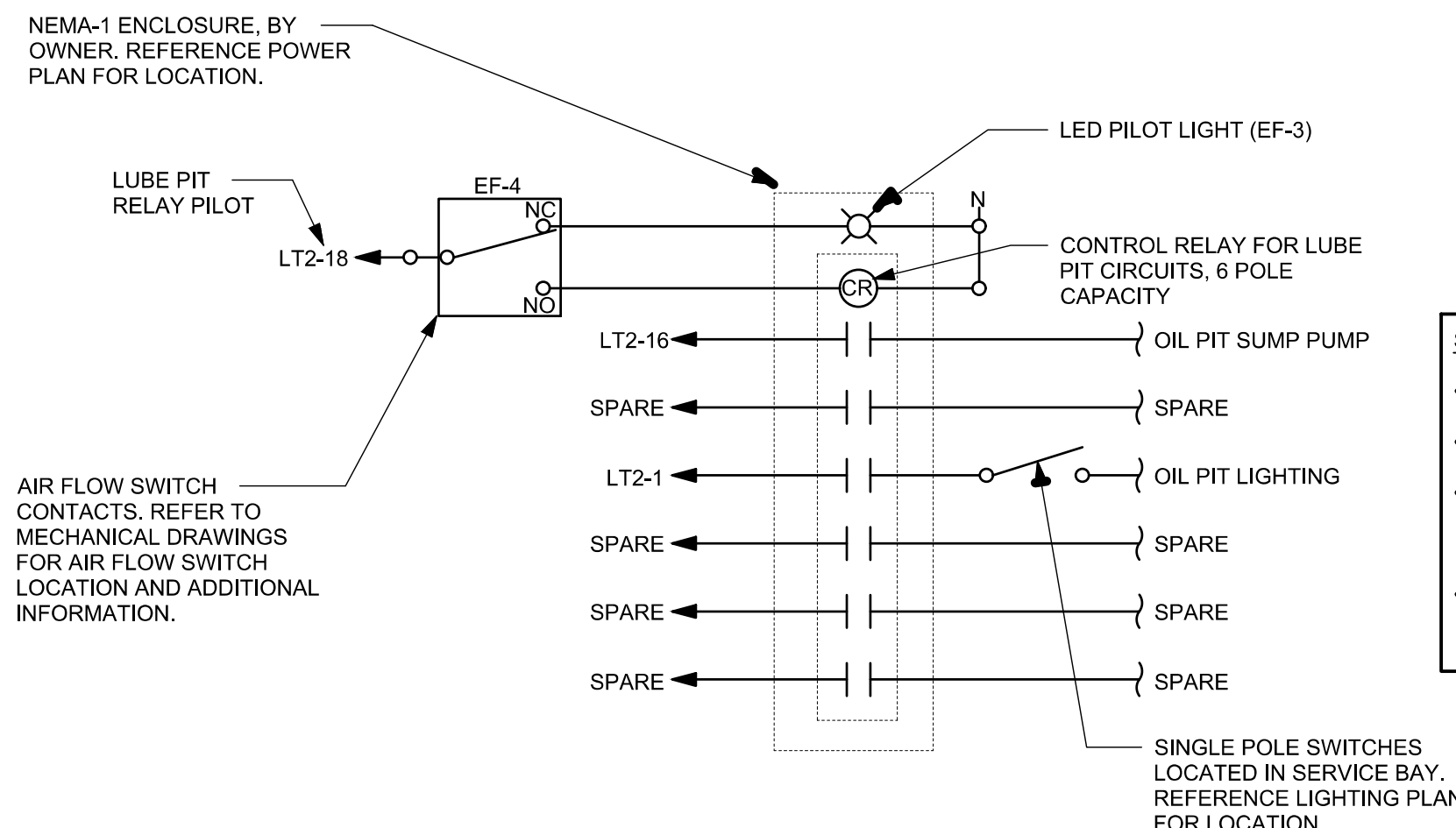
\*FIRST 10KVA AT 100% AND REMAINING AT 50%  
\*\*LARGEST OF COOLING OR HEATING

**ONE-LINE DIAGRAM**



3 NTS

**LUBE PIT CONTROL RELAY DETAIL**

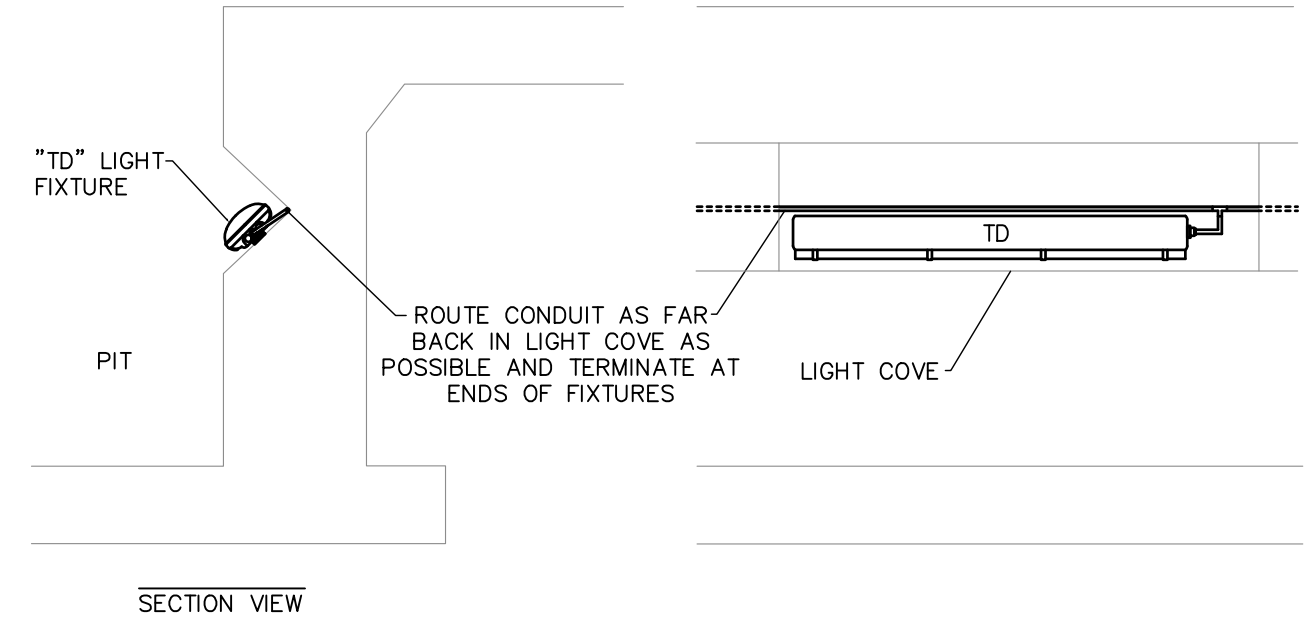


**SEQUENCE OF OPERATIONS:**

- ROUTE OIL PIT LIGHTING AND POWER CIRCUITS THROUGH LUBE PIT CONTROL RELAY.
- CONTROL RELAY SHALL BE CONNECTED TO THE AIR FLOW SWITCH CONTACT.
- IN THE EVENT THAT THE OIL PIT EXHAUST FAN MALFUNCTIONS, THE LED PILOT LIGHT WILL ILLUMINATE TO SHOW THAT THE EXHAUST FAN HAS MALFUNCTIONED.
- IF THE EXHAUST FAN MALFUNCTIONS THE CONTROL RELAY WILL TERMINATE POWER TO THE LUBE PIT.

2 NTS

**PIT LIGHT MOUNTING DETAIL**



1 NTS

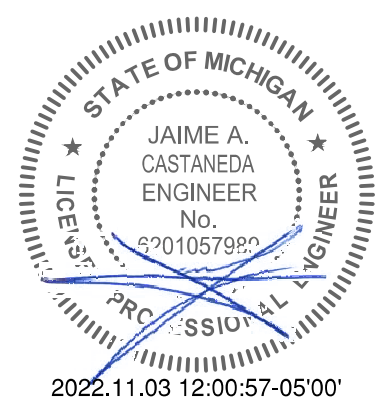
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MARSHALL, MI 49068  
JOB NUMBER: 03-21-203396

ISSUE BLOCK			
3	09/15/22	CCD 1	
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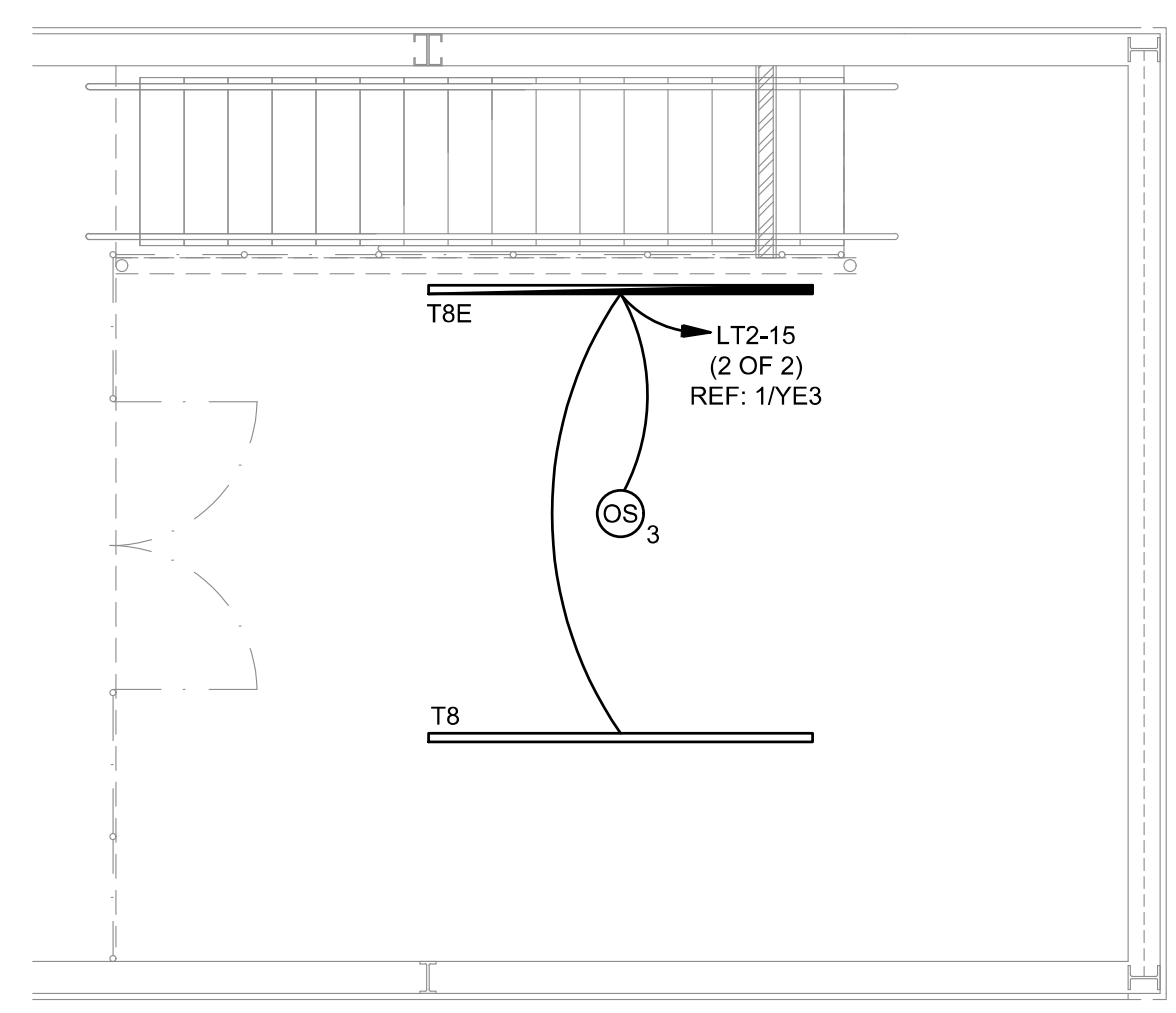
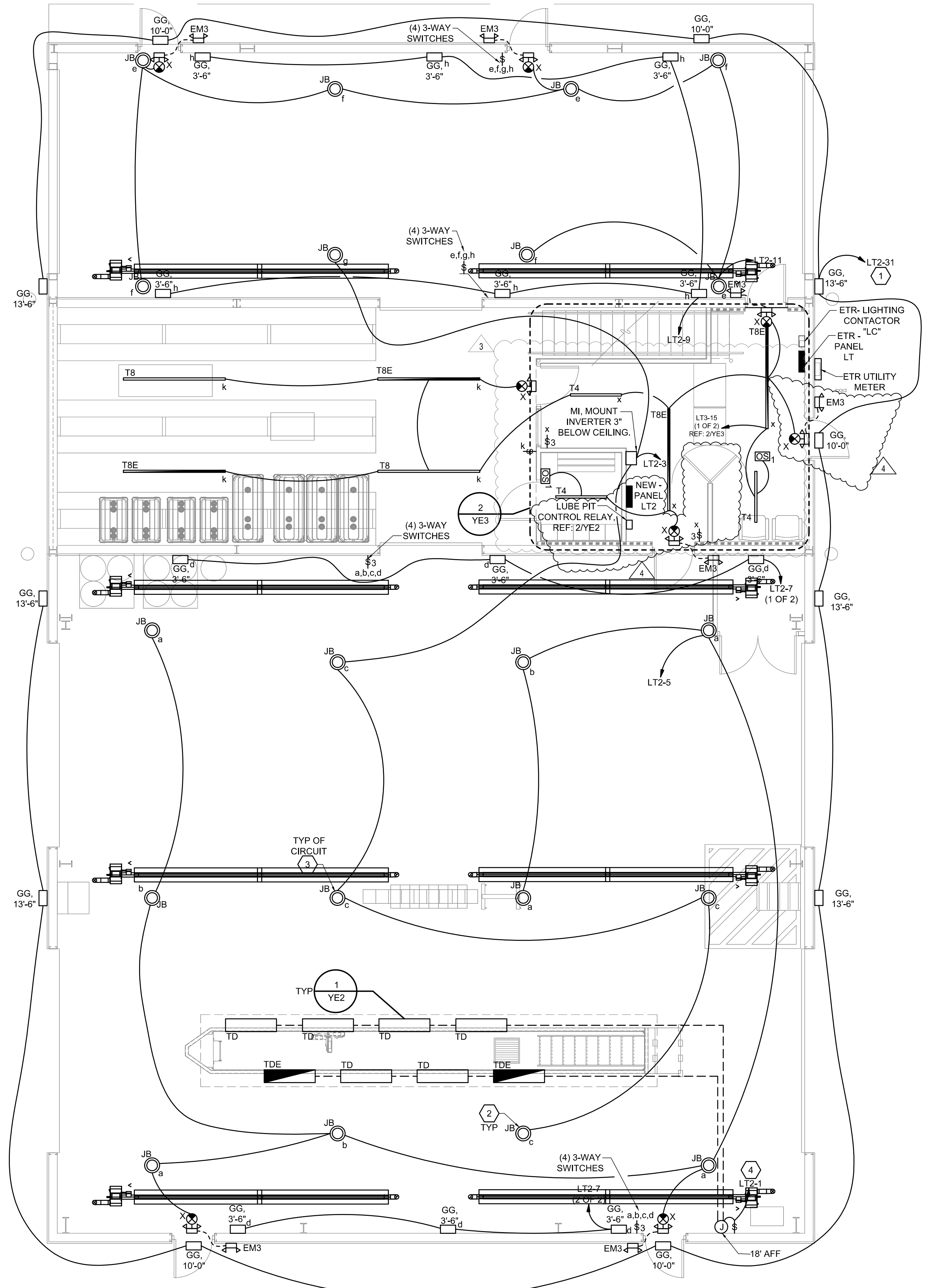


**LIGHTING NOTES**

- 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.

**KEYNOTES**

- ROUTE CIRCUIT THROUGH EXISTING LIGHTING CONTACTOR.
- MOUNT TO BOTTOM OF STRUCTURE. PROVIDE UNISTRUT AND 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.



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

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

- 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

**KEYNOTES**

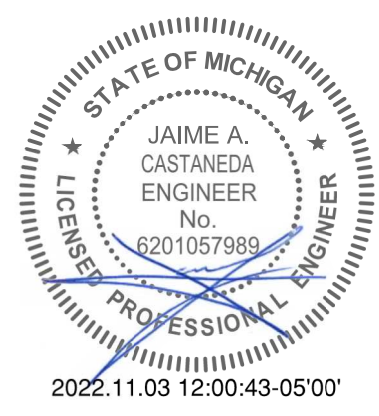
- INSTALL A 120V DUPLEX RECEPTACLE WITH TOP AT 16" ABOVE BOTTOM OF OIL PIT FOR SUMP PUMP. ROUTE CIRCUIT THROUGH LUB PIT CONTROL RELAY. REFERENCE LUBE PIT CONTROL RELAY DETAIL FOR ADDITIONAL INFORMATION.
- DOUBLE GANG BOX MOUNTED AT 48" FOR DIAGNOSTICS STATION. ROUTE 1" GRC CONDUIT WITH PULL STRING FROM BOTTOM OF JOIST TO DOUBLE GANG BOX FOR DATA CABLES. PROVIDE SEPARATE 1" GRC CONDUIT FOR POWER TO GFCI RECEPTACLE.
- LABEL EACH SWITCH COVER PLATE USING CLEAR THERMAL TRANSFER (ELECTRIC DYMO) LABELS WITH 1/8" HIGH LETTERS.
- MOUNT POWER FOR OVERHEAD DOOR OPERATOR TO BOTTOM OF PURLIN. COORDINATE FINAL LOCATION WITH CONSTRUCTION MANAGER.
- EXHAUST FAN WITH FACTORY INSTALLED DISCONNECT. ELECTRICAL CONTRACTOR TO PROVIDE CIRCUITRY TO DISCONNECT.
- ELECTRICAL CONTRACTOR SHALL MAKE CONNECTIONS BETWEEN THE OUTDOOR UNIT (HP-1) AND THE INDOOR UNIT (DFC-1) OF THE MINI-SPLIT SYSTEM.

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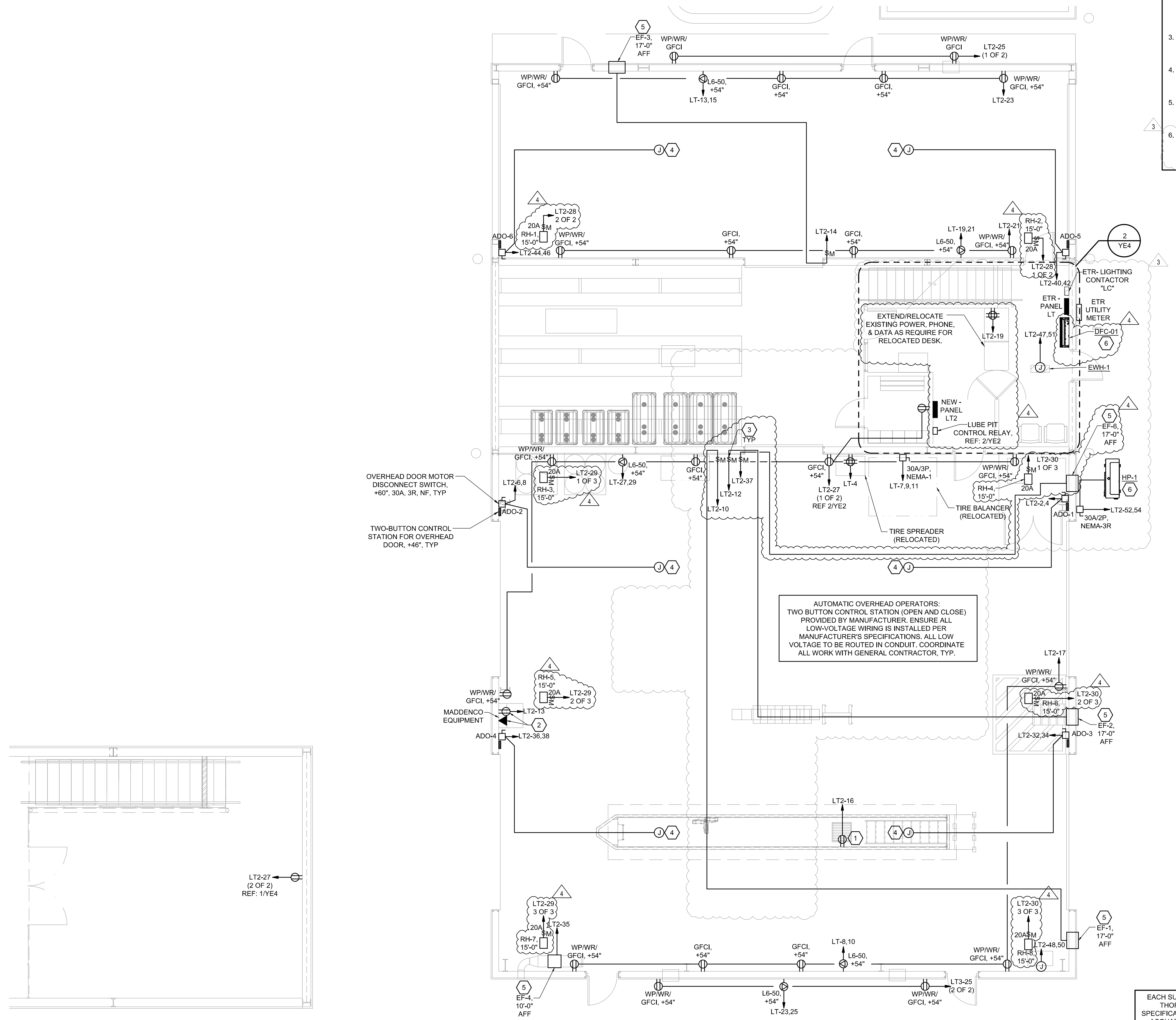
**REMODEL**  
 STORE NUMBER: 338  
 18720 PARTELO RD  
 MARSHALL, MI 49068  
 JOB NUMBER: 03-21-200336

ISSUE BLOCK			
3	09/15/22	CCD 1	
4	11/04/22	CCD 2	

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**POWER FLOOR PLAN**  
 SHEET: **YE4**



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

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

REPLACE ANY MISSING, DAMAGED OR BROKEN RECEPTACLES AND COVER PLATES THROUGHOUT THE INTERIOR AND EXTERIOR OF THE BUILDING.

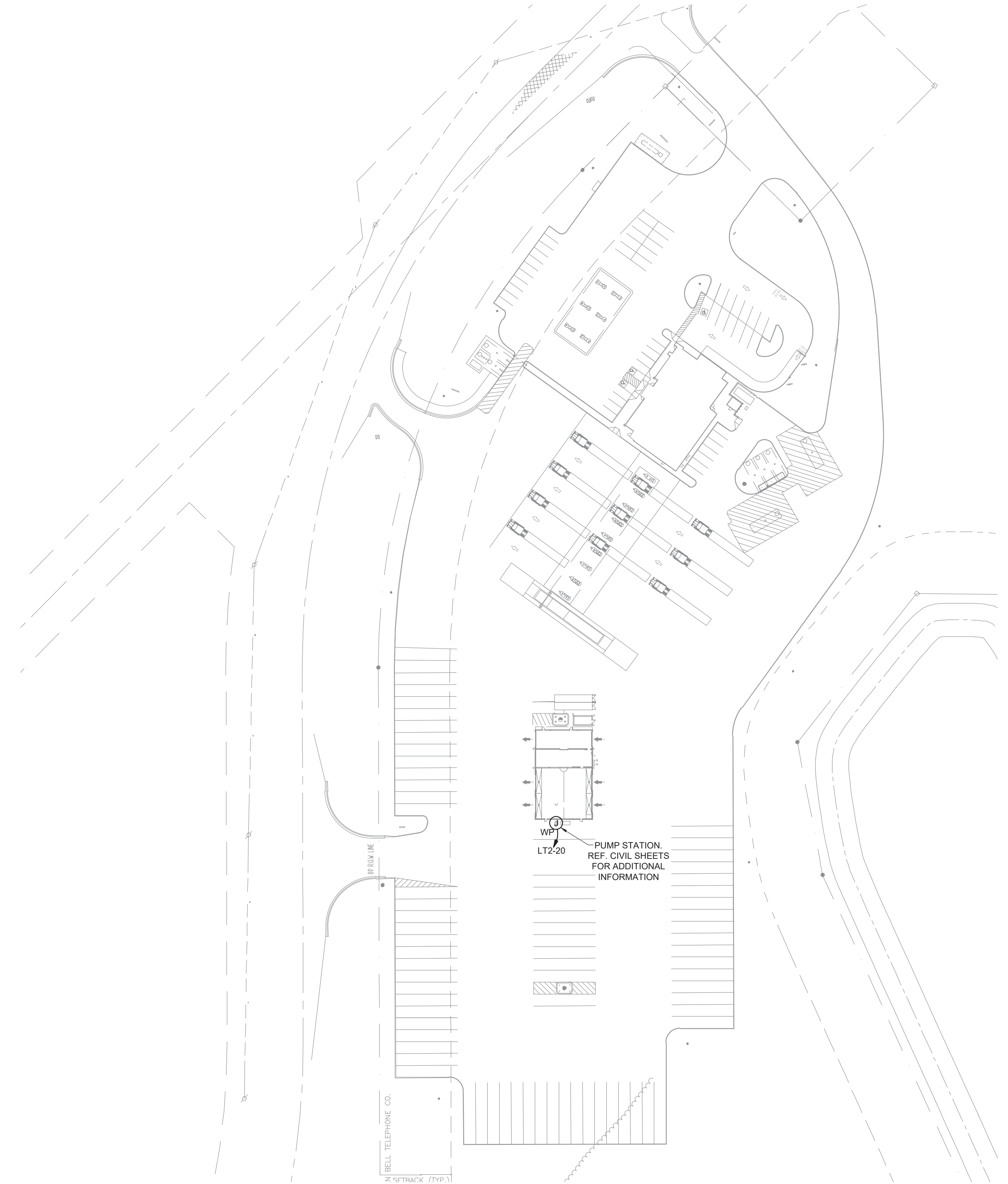
EXISTING SECURITY SYSTEM TO BE MODIFIED BY OTHERS. COORDINATE DISRUPTIONS AND NECESSARY MODIFICATIONS TO THE SECURITY SYSTEM WITH GENERAL CONTRACTOR.

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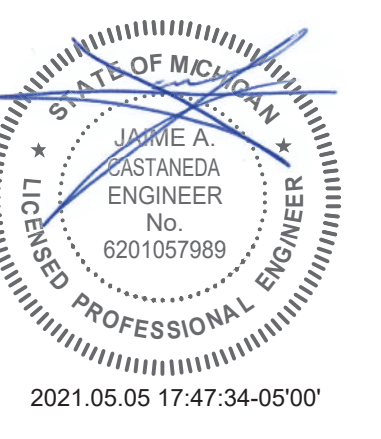
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 18720 PARTELO RD  
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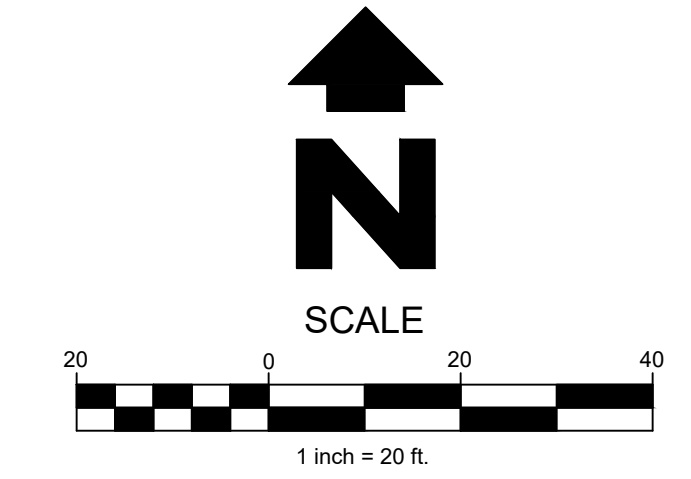
2021.05.05 17:47:34-05'00'

**SITE POWER PLAN**

SHEET: **YE5**

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





**LEGEND**

	MISC. MANHOLE		SHRUB/BUSH
	STORM SEWER MANHOLE		DECIDUOUS TREE
	CATCH BASIN/CURB INLET		CONIFEROUS TREE
	SANITARY SEWER MANHOLE		FIRE HYDRANT
	WATER MANHOLE		WATER VALVE
	ELECTRIC MANHOLE		WATER METER
	PHONE MANHOLE		GAS VALVE
	UTILITY POLE W/LIGHT		BURIED GAS MARKER
	UTILITY POLE		GAS METER
	LIGHT POLE		BURIED ELECTRIC MARKER
	FLAG POLE		BURIED PHONE MARKER
	MONITOR WELL		TELEPHONE PEDESTAL
	ELECTRIC BOX/TRANSFORMER		CABLE TV PEDESTAL
	AIR CONDITIONING UNIT		MAIL BOX
	OVERHEAD UTILITY LINE		SIGN
	UNDERGROUND UTILITY LINE		BOLLARD
	GAS MAIN		FENCE LINE
	WATER MAIN		
	FENCE LINE		

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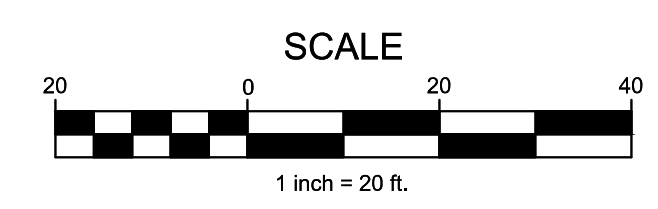
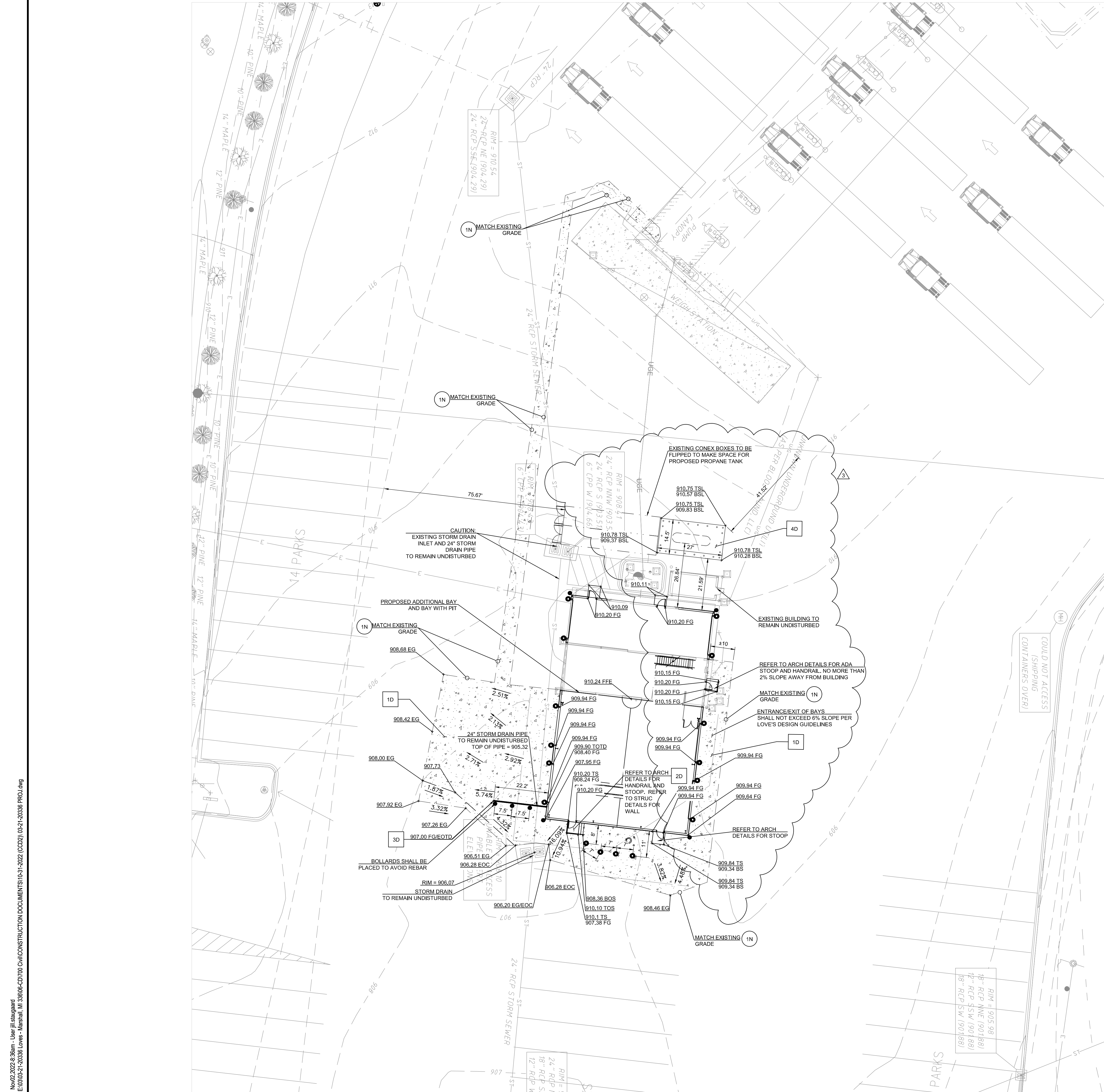
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EXISTING GRADES

SHEET: YCV1

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 STE 130  
 BATTLE CREEK, MI 49014  
 269-963-7977



**PROPOSED**

---	PROPERTY LINE
---	BREAKLINE
XXX.XX	SPOT ELEVATION
FFE	FINISHED FLOOR ELEVATION
TOS	TOP OF STAIR
BOS	BOTTOM OF STAIR
BOW	BOTTOM OF WALL
TOW	TOP OF WALL
BS	BOTTOM OF STOOP
TS	TOP OF STOOP
FG	FINISHED GRADE
G	GUTTER
TC	TOP OF CURB
EG	EXISTING GRADE
EOC	EDGE OF CONCRETE
TOTD	TOP OF TURNDOWN
BOTD	BOTTOM OF TURNDOWN
BSL	BOTTOM OF SLAB
TSL	TOP OF SLAB
○	PROPOSED BOLLARD; SEE ARCH. PLANS

**GENERAL GRADING NOTES**

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

**NOTES**

- SAWCUT LINE/ MATCH EXISTING ELEVATIONS

**DETAILS**

- CONCRETE PAVEMENT; SEE DETAIL 1/ SHEET YCV3
- CONCRETE STAIRS; SEE DETAIL 7/SHEET YCV3
- CONCRETE TURNDOWN; SEE DETAIL 8/SHEET YCV3
- CONCRETE CURBED ISLAND WITH VERTICAL CURB; SEE DETAIL 4/SHEET YCV3

**LEGEND**

○	MISC. MANHOLE	○	SHRUB/BUSH
⊕	STORM SEWER MANHOLE	○	DECIDUOUS TREE
⊕	CATCH BASIN/CURB INLET	○	CONIFEROUS TREE
⊕	SANITARY SEWER MANHOLE	○	FIRE HYDRANT
⊕	WATER MANHOLE	○	WATER VALVE
⊕	ELECTRIC MANHOLE	○	WATER METER
⊕	PHONE MANHOLE	○	GAS VALVE
⊕	UTILITY POLE W/LIGHT	○	BURIED GAS MARKER
⊕	UTILITY POLE	○	GAS METER
⊕	LIGHT POLE	○	BURIED ELECTRIC MARKER
⊕	FLAG POLE	○	BURIED PHONE MARKER
⊕	MONITOR WELL	○	TELEPHONE PEDESTAL
⊕	ELECTRIC BOX/TRANSFORMER	○	CABLE TV PEDESTAL
⊕	AIR CONDITIONING UNIT	○	MAIL BOX
○	BOLLARD	○	SIGN
○	OVERHEAD UTILITY LINE	○	
○	UNDERGROUND UTILITY LINE	○	
○	GAS MAIN	○	
○	WATER MAIN	○	
○	FENCE LINE	○	

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ADD-1	07-09-2021
CCD-1	09-20-2022
CCD-2	11-04-2022

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**GRADING PLAN**

SHEET:  
**YCV2**

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**ISSUE BLOCK**

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ADD-2	04-01-2022
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CCD-2	11-04-2022

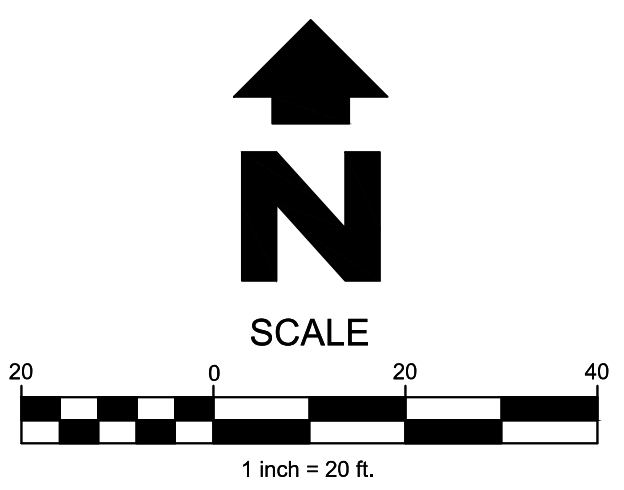
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DOCUMENT DATE: 05/05/21



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UTILITY PLAN

SHEET: YCV2.1



**PROPOSED LEGEND**

- PROPERTY LINE
- x-ss- SANITARY SEWER LINE

**NOTES**

- 1N. SANITARY SERVICE ENTRANCE. SEE MEP PLANS FOR CONTINUATION INTO BUILDING.
- 2N. CONNECT TO EXISTING SANITARY SEWER LINE VIA WYE CONNECTION.
- 3N. OIL/WATER SEPARATOR (SEE DETAILS ON MEP SHEET YM3.2)

**DETAILS**

- 1D. T-PATCH UNDER PAVEMENT. SEE DETAIL 2/YCV3
- 2D. NOT USED
- 3D. TWO-WAY SANITARY SEWER CLEAN-OUT (SEE MEP PLANS FOR SCHEDULE). SEE DETAIL 5/YCV3
- 4D. SUMP PUMP. SEE DETAIL 6/YCV3

**LEGEND**

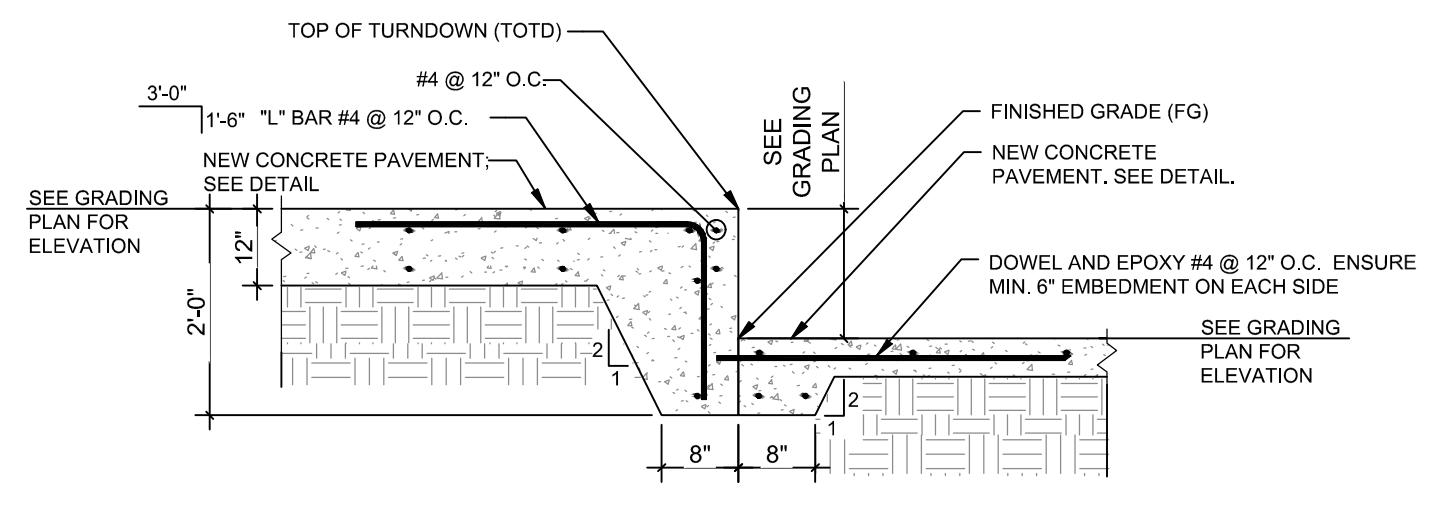
- |     |                          |     |                          |
|-----|--------------------------|-----|--------------------------|
| (M) | MISC. MANHOLE            | (S) | SHRUB/BUSH               |
| (D) | STORM SEWER MANHOLE      | (T) | DECIDUOUS TREE           |
| (C) | CATCH BASIN/CURB INLET   | (C) | CONIFEROUS TREE          |
| (S) | SANITARY SEWER MANHOLE   | (F) | FIRE HYDRANT             |
| (W) | WATER MANHOLE            | (V) | WATER VALVE              |
| (E) | ELECTRIC MANHOLE         | (M) | WATER METER              |
| (P) | PHONE MANHOLE            | (G) | GAS VALVE                |
| (L) | UTILITY POLE W/LIGHT     | (B) | BURIED GAS MARKER        |
| (U) | UTILITY POLE             | (G) | GAS METER                |
| (L) | LIGHT POLE               | (B) | BURIED ELECTRIC MARKER   |
| (M) | MONITOR WELL             | (B) | BURIED PHONE MARKER      |
| (E) | ELECTRIC BOX/TRANSFORMER | (P) | TELEPHONE PEDESTAL       |
| (A) | AIR CONDITIONING UNIT    | (C) | CABLE TV PEDESTAL        |
|     |                          | (M) | MAIL BOX                 |
|     |                          | (S) | SIGN                     |
|     |                          | (B) | BOLLARD                  |
|     |                          | (O) | OVERHEAD UTILITY LINE    |
|     |                          | (U) | UNDERGROUND UTILITY LINE |
|     |                          | (G) | GAS MAIN                 |
|     |                          | (W) | WATER MAIN               |
|     |                          | (X) | FENCE LINE               |



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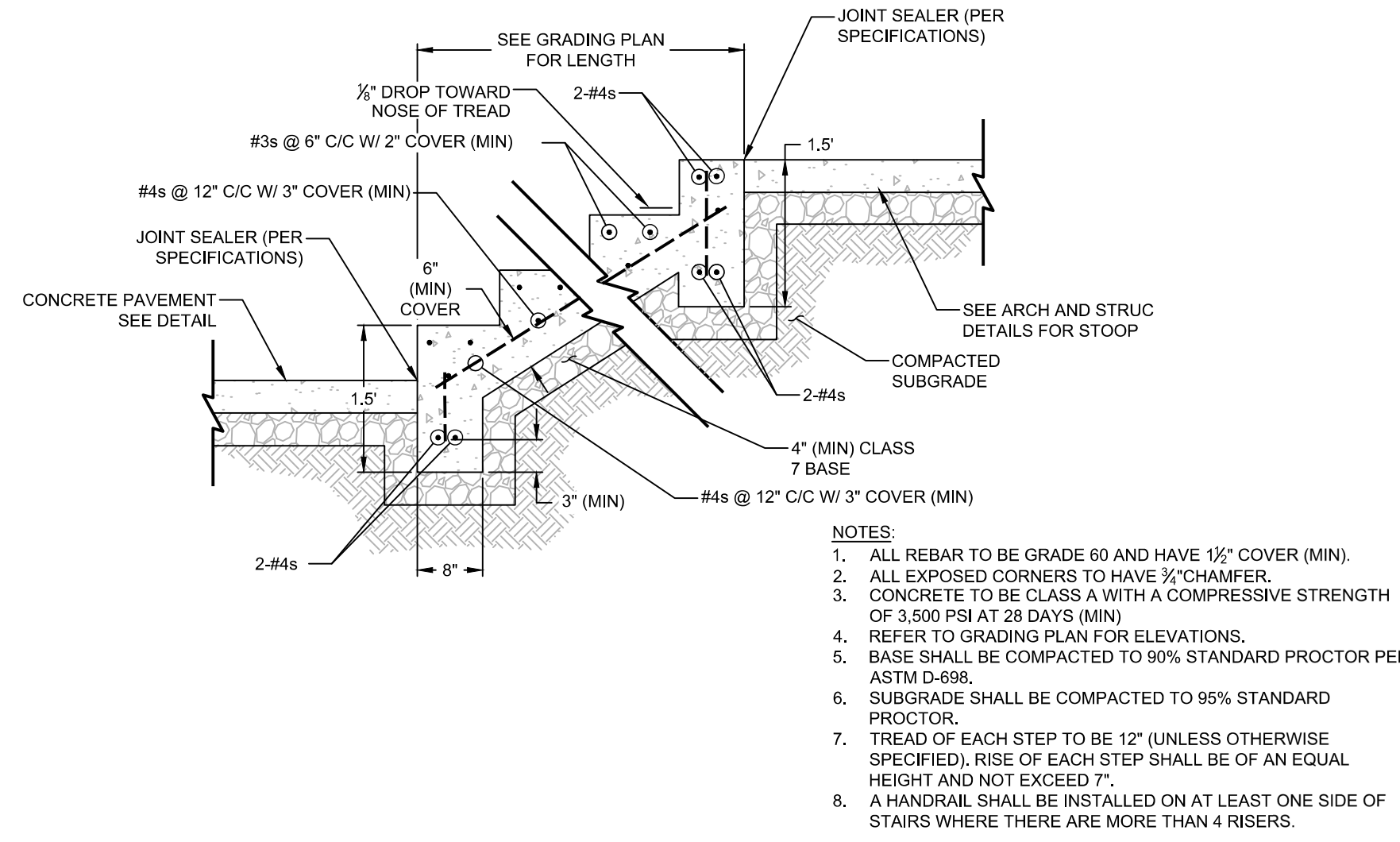
### 8 CONCRETE TURNDOWN

N.T.S.



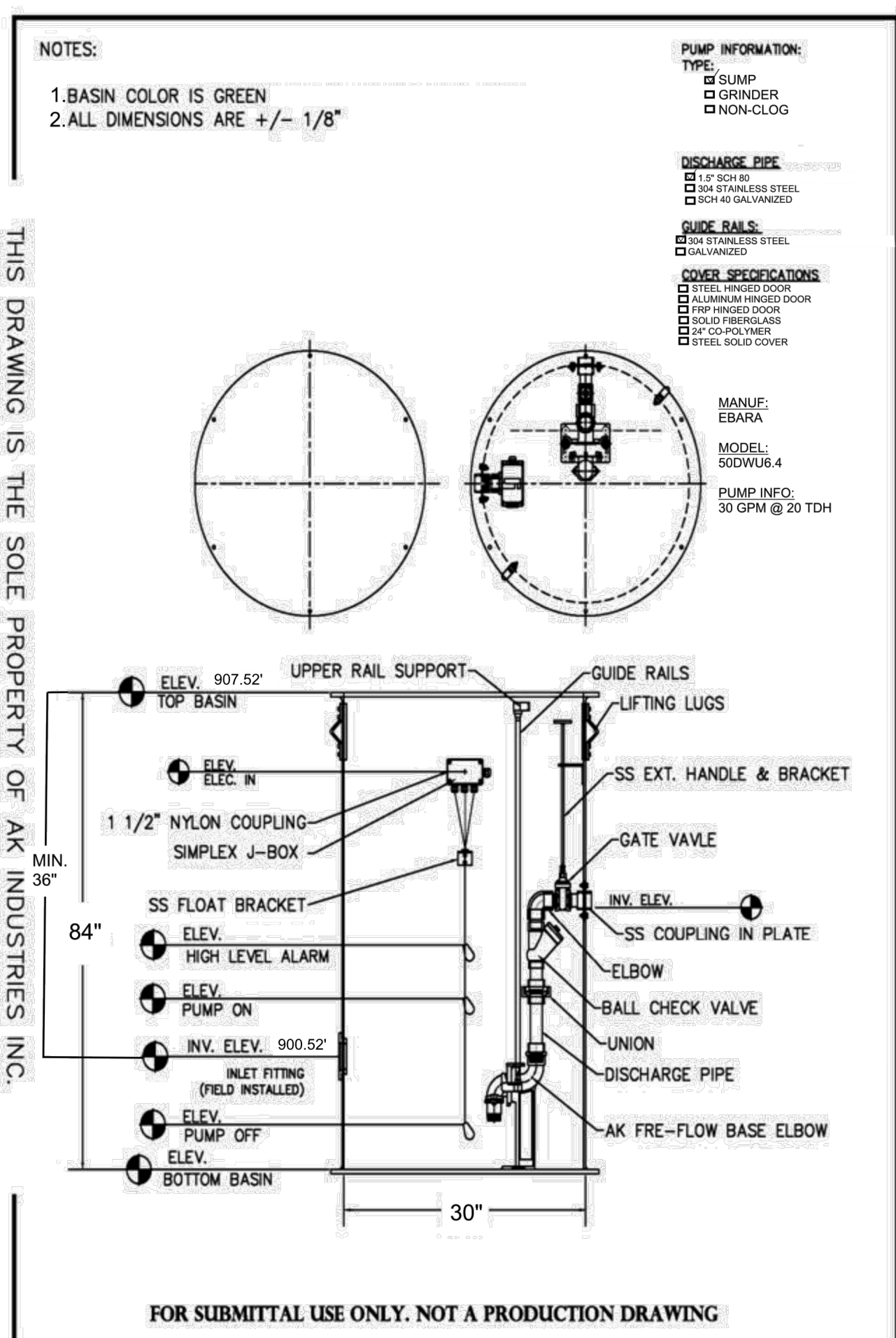
### 7 CONCRETE STAIRS

N.T.S.



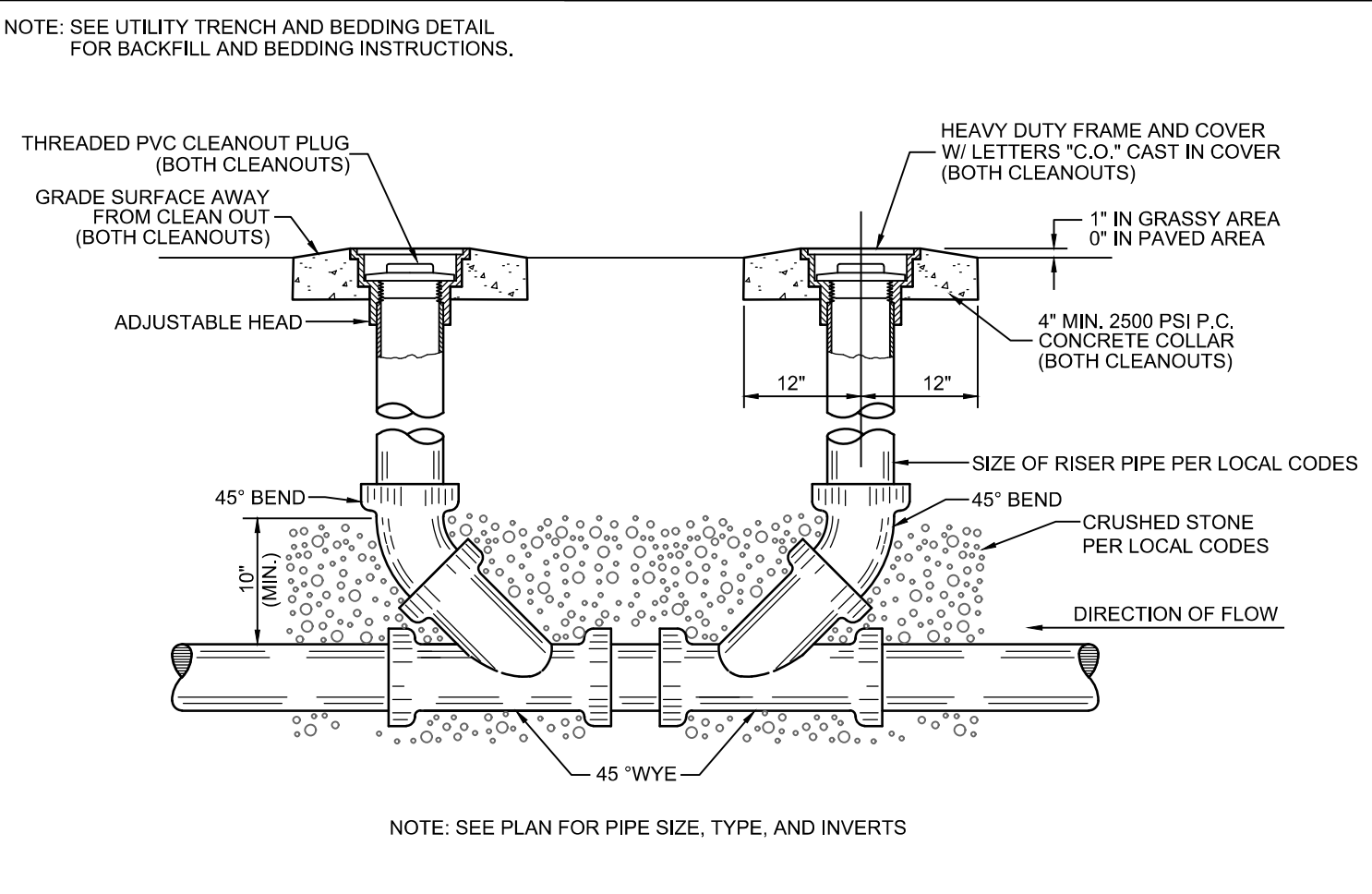
### 6 SUMP PUMP DETAIL

N.T.S.



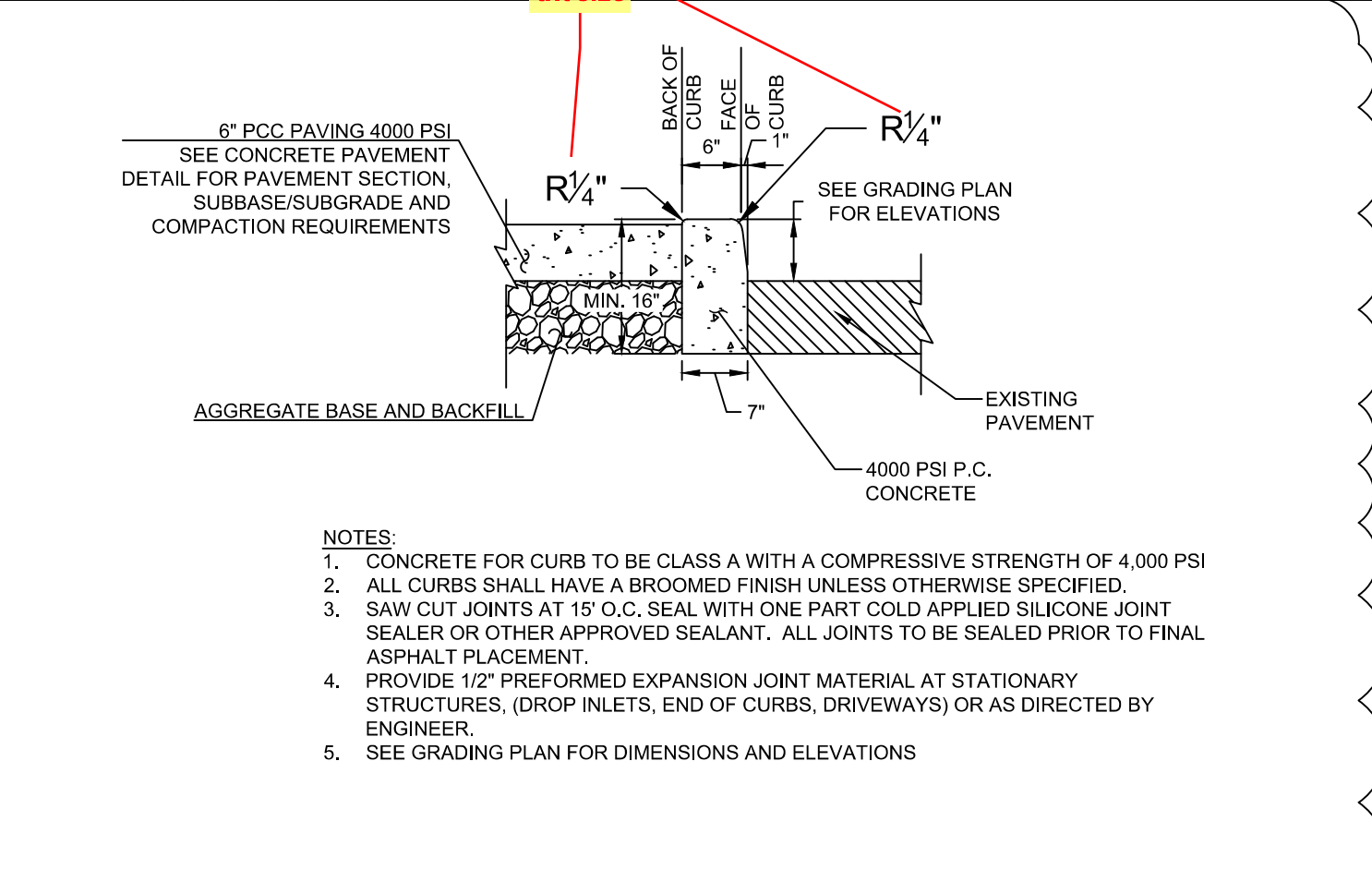
### 5 TWO WAY SANITARY SEWER CLEAN-OUT

N.T.S.

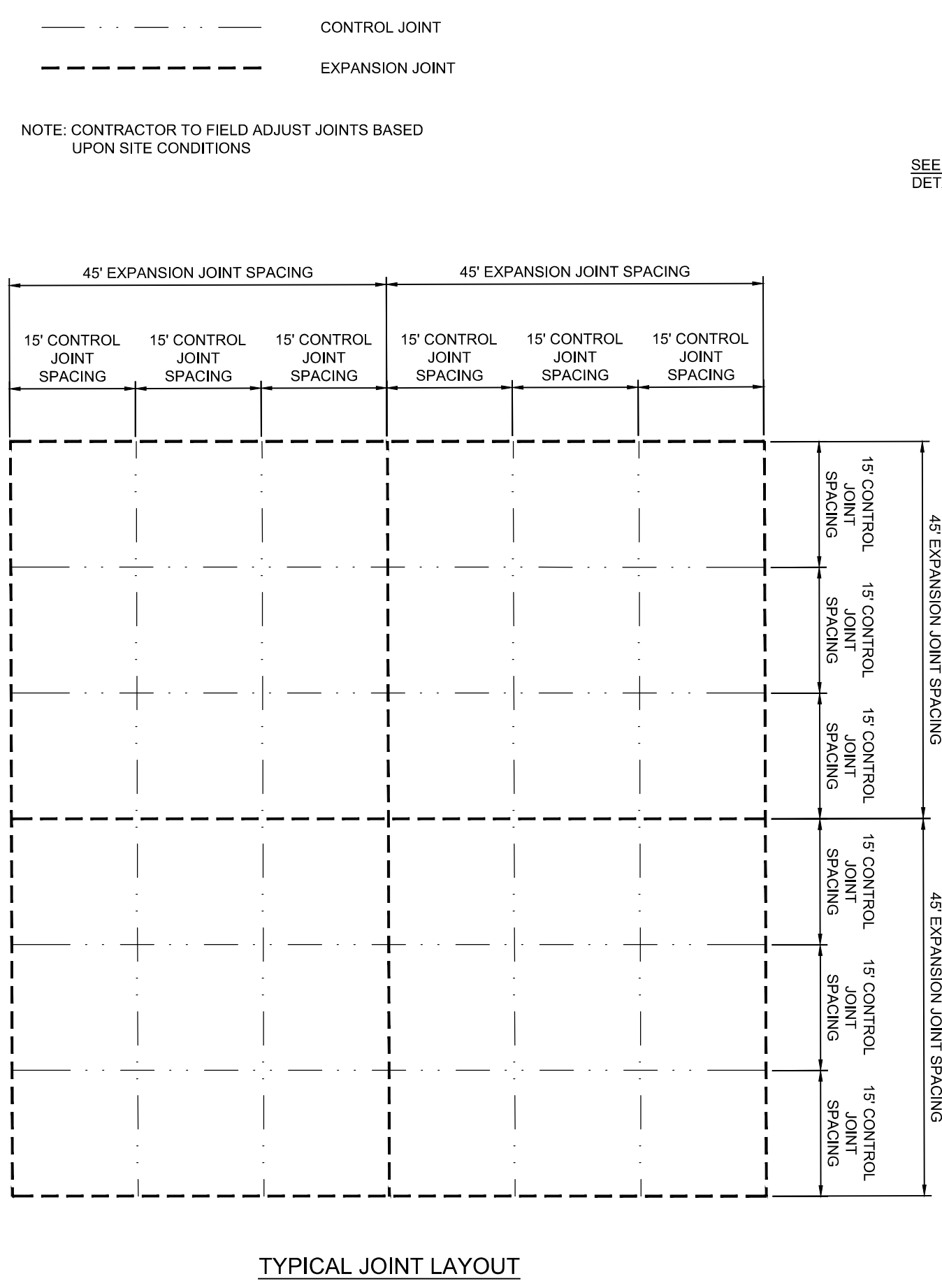


### 4 CONCRETE CURBED ISLAND WITH VERTICAL CURB

N.T.S.

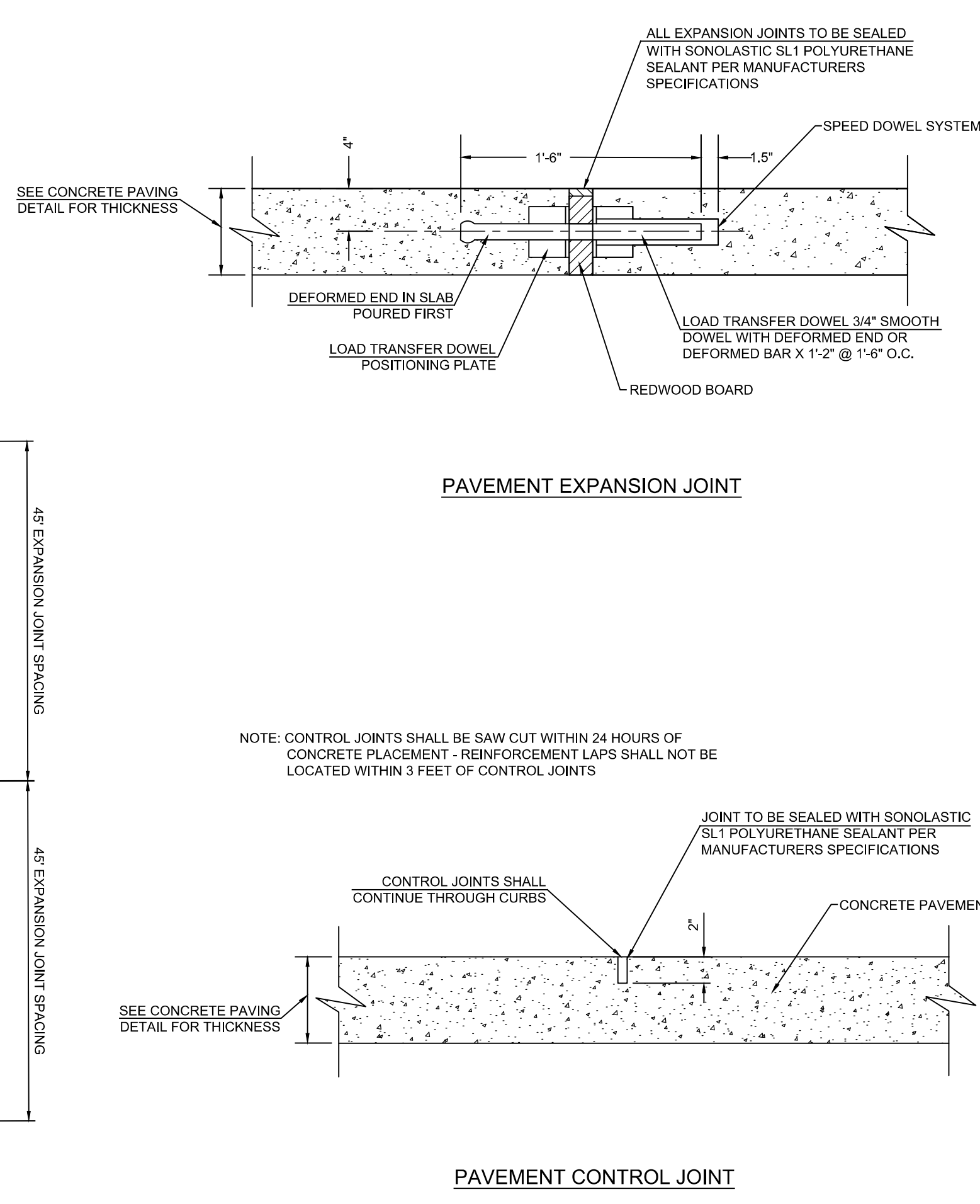


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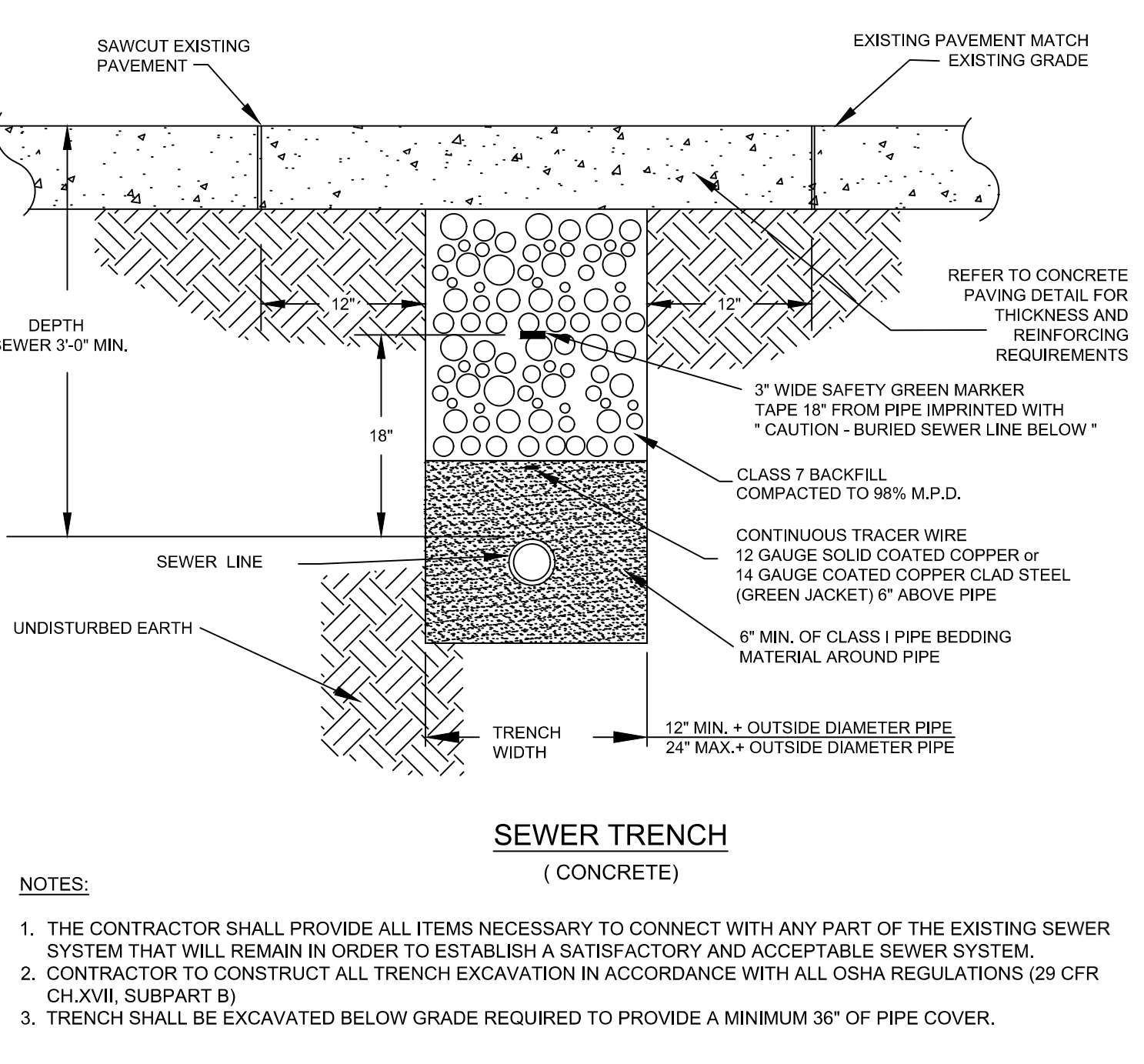
### 3 TYPICAL PAVING JOINT DETAIL

N.T.S.



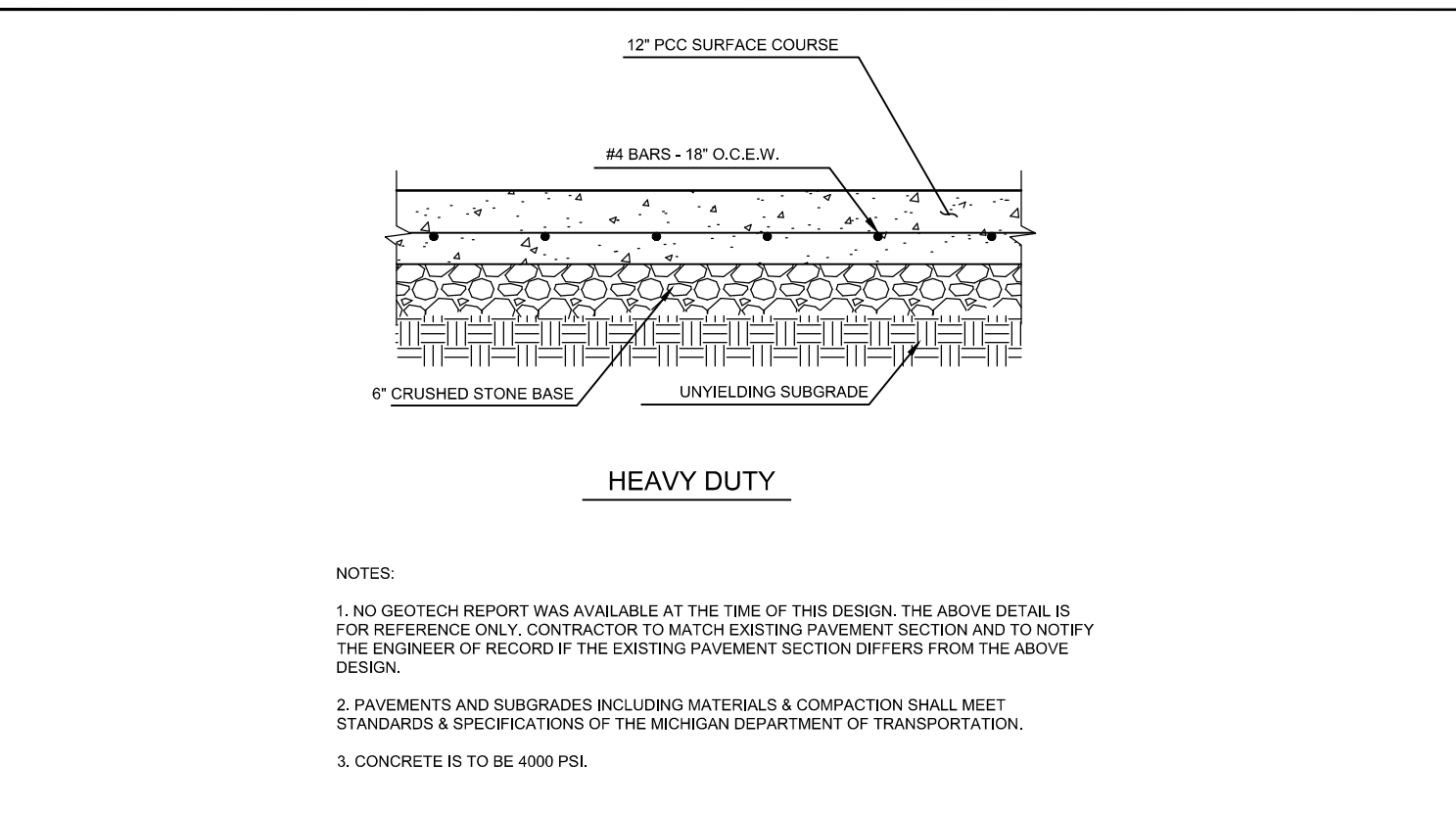
### 2 T-PATCH UNDER PAVEMENT

N.T.S.



### 1 CONCRETE PAVING DETAIL

N.T.S.



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MASSAQUSETTS  
JOB NUMBER: 03-21-00336

ISSUE BLOCK		
ADD-1	07-09-2021	
CCD-1	09-20-2022	
CCD-2	11-04-2022	

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DETAILS SHEET

SHEET: YCV3

Nov01:2022-8:28am - User: jll stauffer  
E:\03\21-20336-Lowe - Mass\11-13-2022-CORRECTED CONSTRUCTION DOCUMENTS\04-2022-CORRECTED-202036-PROJ.dwg



## **ADDENDUM 2**

April 1, 2022

Love's Travel Stop #336  
18720 Partello Rd.  
Marshall, MI 49068

HFA Project Number: 03-21-20336

This Addendum is incorporated into the Contract Documents for the above referenced Project.

---

### **SUMMARY OF CHANGES:**

- Remove catch basins from the service bay addition.

### **ARCHITECTURAL:**

#### **YLS1 – LIFE SAFETY PLAN**

Detail 1 – Life Safety Plan

1. Remove catch basins from new service bay.

#### **YA1 – OVERALL FLOOR PLAN**

Detail 1 – Overall Floor Plan

1. Remove catch basins and associated elevation tags from new service bay.
2. Revise dimensions.

#### **YA3 – WALL SECTIONS & DETAILS**

Detail 1 – Wall Sections

1. Add roof insulation and annotation.
2. Revise footing to match structural.

Detail 2 – Wall Sections

1. Revise footing to match structural.
2. Revise metal stud and detail reference number annotation.

#### **YA4 – LUBE PIT SECTION & DETAILS**

Detail 8 – Catch Basin

1. Revise catch basin to match revised equipment.
2. Revise dimensions.
3. Revise catch basin annotation.

## **YA6 – DOOR SCHEDULES, ELEVATIONS & DETAILS**

### Detail 2 – Head Detail

1. Add metal stud and R-13 annotations.
2. Revise metal panel annotation.

### Detail 3 – Jamb Detail

1. Add metal stud and R-13 annotations.

### Detail 4 – OHD Head Detail

1. Add metal stud and R-13 annotations.

### Detail 5 – OHD Jamb Detail

1. Add metal stud and R-13 annotations.

### Detail 9 – Base Trim Detail

1. Add metal stud, R-13 and plywood annotations.

## **STRUCTURAL:**

### **YS2.0 – FOUNDATION PLAN & TYPICAL DETAILS**

#### Plan 1 – Foundation Plan

1. Remove catch basins in new service bay and associated annotations.

## **MECHANICAL:**

### **SHEET YM2.1 – PLUMBING FLOOR PLAN**

#### Detail 1 – Plumbing Floor Plan

1. Revised plans to remove catch basins in new service bay.

## **ELECTRICAL:**

No revisions for this addendum.

## **CIVIL:**

### **SHEET YCV2.1 UTILITY PLAN**

1. Updated sheet with building footprint that shows the originally planned catch basins removed.

**END OF ADDENDUM 2**



## **CONSTRUCTION CHANGE DIRECTIVE 1**

September 20, 2022

Love's Travel Stop #336  
18720 Partello Rd.  
Marshall, MI 49068

HFA Project Number: 03-21-20336

This Construction Change Directive is incorporated into the Contract Documents for the above referenced Project.

---

### **SUMMARY OF CHANGES:**

- Revised construction to metal building manufacturer.
- Revised extent of grading.

### **ARCHITECTURAL:**

#### **YC1 – COVER SHEET & INDEX**

Index of Drawings

1. Architectural – Added sheet YS6.1 to index.
2. Structural - Removed Sheet YS1.1, YS3.1, & YS3.2 from index.
3. Civil – Added sheet YCV1 to index.

Responsibility Schedule

1. Revised furnished by for structural steel, insulation, wall panels, roof panels, trim, and overhead doors.

#### **YLS1 – LIFE SAFETY PLAN**

Egress Area & Occupant Load Calculations

1. Revised calculations entirely.

Plan 1 – Life Safety Plan

1. Revised wall construction from metal studs to metal building.
2. Enclosed the New Lobby.
3. Added the New Changing Room.
4. Revised equipment layout.
5. Revised egress path from “D” to “E”. Added new egress path “D”.

Plan 2 – Mezzanine Egress Plan.

1. Revised egress path from “E” to “F”.

### **YSP1 – OVERALL SITE PLAN**

#### Plan 1 – Site Plan

1. Added concrete stairs and railing.
2. Revise extent of site work.

### **YSP2 – ENLARGED SIT PLAN & DETAILS**

#### Plan 1 – Enlarged Site Plan

1. Revised stoop annotation.
2. Added concrete landing, stairs, rail, annotation, and dimensions

#### Plan 2 – Stoop Details

1. Revised annotation.

#### Detail 5 – Concrete Stairs With Handrails

1. Added detail.

### **YD1 – DEMOLITION PLAN**

#### Plan 1 – Demolition Plan

1. Revise extent of site work.

### **YA1 – OVERALL FLOOR PLAN**

#### Sheet Box Note:

1. Notes have been extensively revised.

#### Plan Legend:

1. Removed new stud wall from legend.

#### Plan 1 – Overall Floor Plan

1. Plan has been extensively revised.

#### Plan 2 – Enlarged Plan at Filter Crusher

1. Revised wall construction from metal studs to metal building.

### **YA1.1 – FINISH LEGEND, ROOM FINISH SHCHEDULE, & ENLARGED PLAN**

#### Room Finish Schedule:

1. Revised substrates and finishes 3 for room 705.
2. Added rooms 702 and 711 to the schedule.

#### Plan 2 – Lobby Plan

1. Added plan to sheet.

### **YA2– EXTERIOR ELEVATIONS**

#### Sheet 1 – Notes

1. Removed box note.



### **YA3 – WALL SECTIONS & DETAILS**

#### Sheet Box Note

1. Removed box note.

#### Detail 1 – Wall Section

1. Revised detail entirely.

#### Detail 2 – Wall Section

1. Revised detail entirely.

### **YA5 – INTERIOR ELEVATIONS**

#### Sheet Box Note

1. Removed box note.

#### Detail 1 – Interior Elevation

1. Added red steel framing.
2. Revised columns and dimensions.
3. Revised steel framing and louver annotation.

#### Detail 2 – Interior Elevation

1. Added red steel framing.
2. Revised columns.
3. Revised steel framing annotation.

#### Detail 5 – Interior Elevation

1. Revised detail entirely.

### **YA5.1 – INTERIOR ELEVATIONS**

#### Detail 1 – Interior Elevation

1. Added red steel framing.
2. Revised steel framing annotation.

#### Detail 1 – Interior Elevation

1. Added red steel framing.
2. Revised steel framing annotation.

### **YA6 – DOOR SCHEDULE, ELEVATIONS & DETAILS**

#### Door Schedule

1. Added doors 705C and 711A to the schedule.
2. Revised notes 1, 2, 3, 4 and 5.

#### Detail 1 – Door Elevations

1. Added louver, annotation and dimension to door “B.”

#### Detail 2 – Head Detail

1. Revised wall construction type from metal stud to metal building.
2. Revised associated annotations.

#### Detail 3 – Jamb Detail

1. Revised wall construction type from metal stud to metal building.
2. Revised associated annotations.

#### Detail 4 – OHD Head Detail

1. Revised wall construction type from metal stud to metal building.
2. Revised associated annotations.

#### Detail 5 – OHD Jamb Detail

1. Revised wall construction type from metal stud to metal building.
2. Revised associated annotations.

#### Detail 9 – Base Trim Detail

1. Revised wall construction type from metal stud to metal building.
2. Revised associated annotations.

#### Detail 11 – Head Detail

1. Added detail to sheet.

#### Detail 12 – Jamb Detail

1. Added detail to sheet.

### **YA6.1 – WINDOW SCHEDULE, ELEVATIONS & DETAILS**

Added sheet.

### **STRUCTURAL:**

#### **YS1.0 – GENERAL NOTES & TYPICAL DETAILS**

Sheet 1 – Notes

2. Sheet has been extensivity revised.

#### **YS1.1 – SPECIAL INSPECTIONS**

Sheet 1 – Notes

1. Remove sheet from project.

#### **YS2.0 – FOUNDATION PLAN & TYPICAL DETAILS**

Plan 1 – Foundation Plan

1. Sheet has been extensivity revised.

#### **YS2.1 – FOUNDATION DETAILS**

Detail 1 – Section

1. Detail has been revised.

Detail 2 – Section

1. Detail has been revised.

Detail 3 – Section

1. Detail has been revised.

Detail 5 – Section

1. Detail has been revised.

Detail 13 – Section

1. Detail has been revised.

**YS3.1 – ROOF FRAMING PLAN & TYPICAL DETAILS**

Plan 1 – Roof framing plan

1. Remove sheet from project.

**YS3.2 – ROOF FRAMING DETAILS**

Detail 1 – Details

1. Remove sheet from project.

**MECHANICAL:**

**YM2.0 – MECHANICAL FLOOR PLAN**

Detail 1 – Mechanical Floor Plan

1. Revised plan to new mini split system to serve enclosed customer entry/lobby area.
2. Revised plan to show unit heaters in the tire storage area to be relocated to avoid conflict with new mezzanine and stairs.
3. Revised plan to include exhaust fan EF-5 to serve new changing room.

Keynotes

1. Added keynote 4 to schedule.

Propane Gas Piping Notes

1. Added notes to plans.

**YM2.2 – AIR AND WATER PLAN**

Detail 1 – Air and Water Plan

1. Revised locations of relocated Tire Spreader and Balancer due to the enclosure of the customer entry/lobby area.

**SHEET YM3.0 – MECHANICAL DETAILS**

Detail 8 – Elevation Tire Spreader / Balancer

1. Added detail to sheet.

**YM3.1 – MECHANICAL SCHEDULES**

Split Ductless Fan Coil Schedule

1. Added schedule to sheet.

Air Cooled Condensing Unit Schedule

1. Added schedule to sheet.

Fan Schedule

1. Added fan EF-5 to schedule.

Detail 1 – Gas Unit Heater Connection

1. Added detail to sheets.

Detail 2 – Flue Through Roof

1. Added detail to sheets.

**ELECTRICAL:**

**SHEET YE2 – SCHEDULES & NOTES**

Panelboard LT2:

1. Added 15A/2P circuit breaker to circuit 52,54 for HP-1.

Lighting Fixture Schedule:

1. Add Type T4 to schedule.

**SHEET YE3 – LIGHTING FLOOR PLAN**

Detail 1 – Lighting Floor Plan:

1. Revised lighting layout below Mezzanine.
2. Relocated Panel LT2 and Lube Pit Control Relay.

**SHEET YE4 – POWER FLOOR PLAN**

Detail 1 – Power Floor Plan:

1. Revised power layout below Mezzanine.
2. Relocated Panel LT2 and Lube Pit Control Relay.
3. Relocated power for tire spreader and tire balancer to Service Bay.
4. Relocated switches for exhaust fans EF-1 and EF-2 in Service Bay.

**CIVIL:**

**SHEET YCV1 EXISTING GRADES**

1. Sheet added

**SHEET YCV2 GRADING PLAN**

1. Added grading for site/updated sawcut lines
2. Added turndown wall with bollards
3. Added stoop and stoop with stairs
4. Updated legend
5. Added surveyor information

**SHEET YCV2.1 UTILITY PLAN**

6. Added detail for trenching
7. Updated legend
8. Added surveyor information

**SHEET YCV3 DETAIL SHEET**

- 9. DETAIL 2 – T-PATCH UNDERPAVEMENT
  - a. Added
- 10. DETAIL 4 –SANITARY SEWER CLEAN OUT
  - a. Removed
- 11. DETAIL 6 – SUMP PUMP DETAIL
  - a. Updated
- 12. DETAIL 7 – CONCRETE STAIRS
  - a. Added
- 13. DETAIL 8 – CONCRETE TURNDOWN
  - a. Added

**END OF CONSTRUCTION CHANGE DIRECTIVE 1**



## **CONSTRUCTION CHANGE DIRECTIVE 2**

November 4<sup>th</sup>, 2022

Love's Travel Stop #336  
18720 Partello Rd.  
Marshall, MI 49068

HFA Project Number: 03-21-20336

This Construction Change Directive is incorporated into the Contract Documents for the above referenced Project.

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### **SUMMARY OF CHANGES:**

- Added heaters and propane tank to existing tire shop.
- Added egress door to New Lobby.
- Revised extent of site work.

### **ARCHITECTURAL:**

#### **YLS1 – LIFE SAFETY PLAN**

Egress Path

1. Revised exit travel distance of exit path B, C, D, and F.

Plan 1 – Life Safety Plan

1. Removed Existing Air Compressor Room.
2. Added New Air Compressor Room.
3. Added door in New Lobby. Added lobby chairs.
4. Revised millwork and wall orientation in New Lobby.
5. Revised egress paths B, C, D, and F.

#### **YSP1 – OVERALL SITE PLAN**

Plan Legend:

1. Added relocated to legend.

Plan 1 – Site Plan

1. Added retaining wall and bollards.
2. Added Lobby door stoop and railing.
3. Added propane tank and annotation.
4. Revised location of conex boxes.

## **YSP2 – ENLARGED SITE PLAN & DETAILS**

Plan Legend:

1. Added relocated to legend.

Plan 1 – Site Plan

1. Added retaining wall and bollards.
2. Added lobby door stoop, railing, and annotations.
3. Added propane tank and annotation.
4. Revised location of conex boxes.
5. Revised dimensions.

Detail 6 – LP Gas Tank Pad

1. Added detail to sheet.

## **YD1 – DEMOLITION PLAN**

Plan 1 – Demolition Plan

1. Revise extent of demolition.
2. Revised associated annotation.

## **YA1 – OVERALL FLOOR PLAN**

Plan 1 – Overall Floor Plan

1. Removed Existing Air Compressor Room.
2. Added New Air Compressor Room.
3. Added door in New Lobby. Added lobby chairs.
4. Revised millwork and wall orientation.
5. Added door tag 706A.
6. Revised dimensions.

## **YA1.1 – FINISH LEGEND, ROOM FINISH SCHEDULE, & ENLARGED PLAN**

Room Finish Schedule:

1. Added room 706 to the schedule.

Plan 2 – Lobby Plan

1. Removed Existing Air Compressor Room.
2. Added New Air Compressor Room.
3. Added door in New Lobby.
4. Added lobby chairs and annotation.
5. Revised millwork and wall orientation.
6. Revised dimensions.
7. Added door tag 705D.

## **YA2 – EXTERIOR ELEVATIONS**

Elevation 3 - Elevation

1. Removed bollard from elevation.
2. Added door and annotation.

## **YA5 – INTERIOR ELEVATIONS**

### Elevation 3 - Elevation

1. Removed portion of bumper rail.
2. Added air compressor room to elevation.

### Elevation 5 - Elevation

1. Added Air Compressor Room to elevation.

## **YA6 – DOOR SCHEDULES, ELEVATIONS & DETAILS**

### Door Schedule:

1. Added door 705D and 706A to the schedule.

### Detail 8 – Partition Type

1. Added partition 3 and 4.

## **YA6.1 – WINDOW SCHEDULES, ELEVATIONS & DETAILS**

### Detail 5:

1. Added detail

### Detail 6:

1. Added detail

## **STRUCTURAL:**

None this CCD.

## **MECHANICAL:**

### **YM2.0 – MECHANICAL FLOOR PLAN**

#### Detail 1 – Mechanical Floor Plan

1. Revised plan to relocate DFC-01.
2. Revised plan to relocate EWH-1.
3. Added EF-6 to new interior air compressor room.
4. Added RH-1/8 and associated piping.

#### Schedules

1. Added GAS DEMAND LOAD schedule.

### **YM2.2 – AIR AND WATER PLAN**

#### Detail 1 – Air and Water Plan

1. Revised Air Compressor and air piping to match relocation to new Air Comp room.
2. Revised location of relocated Tire Spreader due to new Air Comp room.



### **YM3.1 – MECHANICAL SCHEDULES**

Detail 3 – Typical Heater Hanger Details

1. Added detail.

Detail 4 – Combustion Air Intake Detail

1. Added detail.

Detail 5 – General Venting Schematic

1. Added detail.

Detail 6 – Typical Gas Connection

1. Added detail.

### **SCHEDULES**

1. Added INFRARED HEATER SCHEDULE.
2. Added EF-6 to FAN SCHEDULE.

### **ELECTRICAL:**

#### **SHEET E2 – SCHEDULES & NOTES**

Panel LT2:

1. Revised description of circuit 28 from SPARE (N) to RH-1 & RH-2 (N).
2. Revised description of circuit 23 from SPARE (N) to RH-3, RH-5, RH-7 (N).
3. Revised description of circuit 30 from SPARE (N) to RH-4, RH-6, RH-8 (N).
4. Revised description of circuit 37 from SPARE (N) to EF-6 (N).

#### **SHEET E3 – LIGHTING FLOOR PLAN**

Detail 1 – Lighting Floor Plan

1. Added Emergency lighting above door.
2. Revised panel LT2 and Lube Pit control relay location.

#### **SHEET E4 – POWER FLOOR PLAN**

Detail 1 – Power Floor Plan

1. Added new propane heaters.
2. Added New Exhaust fan.
3. Revised panel LT2 and Lube Pit control relay location.

### **CIVIL:**

#### **SHEET YCV2.0 - GRADING PLAN**

Plan 1 – Grading Plan

1. Future grades added for new door and ADA stoop.
2. Propane tank added with dimensions and pad elevations.

#### **SHEET YCV2.1 - UTILITY PLAN**

Plan 1 – Utility Plan

1. Added propane tank.

#### **SHEET YCV3 - DETAILS SHEET**

Detail 4 – Concrete Curbed Island with Vertical Curb

1. Added detail.

### **END OF CONSTRUCTION CHANGE DIRECTIVE 2**