

WOR	K		INDEX OF DRAWINGS:				
<u>CI</u>	1705 S V BENTON IVIL ENGINE HARRIS 1705 S V BENTON	ON FRENCH & ASSOC., LTD WALTON BLVD, SUITE 3 WILLE, AR 72712	ARCHITECTURALYC1COVER SHEET & INDEXYLS1LIFE SAFETY PLANYSP1OVERALL SITE PLANYSP2ENLARGED SITE PLAN & DETAILSYD1DEMOLITION PLANYA1OVERALL FLOOR PLANYA1FINISH LEGEND, ROOM FINISH SCHYA2EXTERIOR ELEVATIONSYA3WALL SECTIONS & DETAILSYA4LUBE PIT SECTIONS & DETAILSYA5INTERIOR ELEVATIONSYA5.1INTERIOR ELEVATIONSYA5.2SECTIONS, DETAILS & INTERIOR EYA6DOOR SCHEDULES, ELEVATIONSYA7TANK ELEVATIONSYA7.1TANK DETAILS & SCHEDULESTRUCTURAL	_EVATIONS	5	ED PLAN	LOR RESULT OF REAL PARTIES AND ENCOURSE DATE ON A CONTRACT OF REAL PARTIES AND ENCOURSE DATE OF A CONTRACT OF A CO
BUILDING	2015 MIC WIT	TORS. TH AMMENDMENTS (2015 IBC) CHIGAN MECHANICAL CODES H AMMENDMENTS (2015 IMC) TH AMMENDMENTS (2015 IPC)	 YS1.0 GENERAL NOTES & TYPICAL DETA YS2.0 FOUNDATION PLAN & TYPICAL DET YS2.1 FOUNDATION DETAILS YS3.0 MEZZANINE FRAMING PLAN & MEZ YS4.1 LUBE PIT PLAN AND PIT DETAILS 	AILS	aming d	ETAILS	STIPULATION THIS DRAWING WAS PREP SPECIFIC SITE AT MARSHA CONTEMPORANEOUSLY WA 65/05/21, AND IT IS NOT SU DIFFERENT PROJECT RED DIFFERENT PROJECT RED ANOTHER PROJECT IS NO CONTRARY TO THE LAW.
MICHIGAI	2017 N 2015 N ENERGY O 2009 ANS	ATIONAL ELECTRICAL CODE 5 INTERNATIONAL FIRE CODE CODES WITH AMMENDMENTS 6 117.1 WITH AMMENDMENTS S-1 V-B; UN-SPRINKLED	MECHANICAL YM1.0 MECHANICAL & PLUMBING SPECIF YM2.0 MECHANICAL FLOOR PLAN YM2.1 PLUMBING FLOOR PLAN YM2.2 AIR AND WATER PLAN YM3.0 MECHANICAL DETAILS YM3.1 MECHANICAL SCHEDULES	ICATIONS			
R'S REPR THIS INFC ND COMP TIFY BOTI	ESENTATIV ORMATION A PLETENESS H THE ARCH	DRAWING AND/OR E. THE ARCHITECT AND ND ASSUME NO OF THIS INFORMATION. HTECT AND THE OWNER'S IS ARE NOT AS SHOWN	YM3.2OIL/WATER SEPARATOR DETAILSELECTRICALYE1ELECTRICAL SPECIFICATIONS & GYE2SCHEDULES & NOTESYE3LIGHTING FLOOR PLANYE4POWER FLOOR PLANYE5SITE POWER PLAN	ENERAL N	OTES		
X/AX.> X X X X X X X X	DETAIL SHEET	LOCATION T REFERENCE POINT	YE5 SITE POWER PLAN CIVIL YCV1 EXISTING GRADES YCV2 GRADING PLAN YCV2.1 UTILITY PLAN YCV3 DETAIL SHEET				Revenue Store number: 336 Issore number: 336 Store number: 336 MARSHALL, MI 49068 MARSHALL, MI 49068 JOB NUMBER: 03-21-20336 CCD 1
		1,200 SQ FT 1,200 SQ FT 200 SQ FT 2,600 SQ FT 3,240 SQ FT 361 SQ FT 3,601 SQ FT		~~~~	~~~~		CHECKED BY: RAF
ND		6,201 SQ FT 9,000 SQ FT	RESPONSIBILITY SCHE				DOCUMENT DATE: 05/05/21
	ID NOT ALL	ABBREVIATIONS MAY		O = OWNER			STATE OF MICHICS
ES ACT	ME MECH MFR MIN MISC MTL NTS OC	MASONRY ELEVATION MECHANICAL MANUFACTURER MINIMUM MISCELLANEOUS METAL NOT TO SCALE ON CENTER	WORK SCHEDULE GENERAL DEMOLITION CONC. SLAB / CUT / PATCH	FURNIS GC X X	O	INSTALLED BY GC	G → B → B → B → B → B → B → B → B
	OH OHD OP OP/CI OP/OI P. LAM PT PVC QTY REF REQD SC SIM	OPPOSITE HAND OVERHEAD DOOR OPERABLE PANEL OWNER PROVIDED / CONTRACTOR INSTALL OWNER PROVIDED / OWNER INSTALL PLASTIC LAMINATE PAINT POLYVINYL CHLORIDE QUANTITY REFER TO REQUIRED SOLID CORE SIMILAR	PAVING BOLLARDS DOOR HARDWARE HOLLOW METAL DOORS PAINT STRUCTURAL STEEL INSULATION WALL PANELS ROOF PANELS		X X X X X X X	X X X X X X X X X X	Janu Mun 2022.09.23 08:10:55-05'00'
LASTIC	SPECS STD STRUC SUSP TEMP THK TO TOC/TC TOC/TC TOG TOM TOP/TP TOS	SPECIFICATIONS STANDARD STRUCTURAL SUSPENDED TEMPERED THICKNESS TOP OF TOP OF CONCRETE TOP OF GRADE BEAM TOP OF MASONRY TOP OF PAVING TOP OF STEEL	TRIM PLYWOOD METAL STUDS SIGNAGE MEZZANINE STAIRS (INTERIOR) HANDRAILS/ GUARDRAILS PEGBOARD	X X X X X	X	X X X X X X X X	COVER SHEET & INDEX
	TYP UNO VIF W WWF	TYPICAL UNLESS NOTED OTHERWISE VERIFY IN FIELD WIDTH WELDED WIRE FABRIC	CHAINLINK FENCING AND GATE OVERHEAD DOORS ANY ITEMS NOT LISTED ABOVE TO BE INST	ALLED BY	GC.	X X 3 1	SHEET: YC1

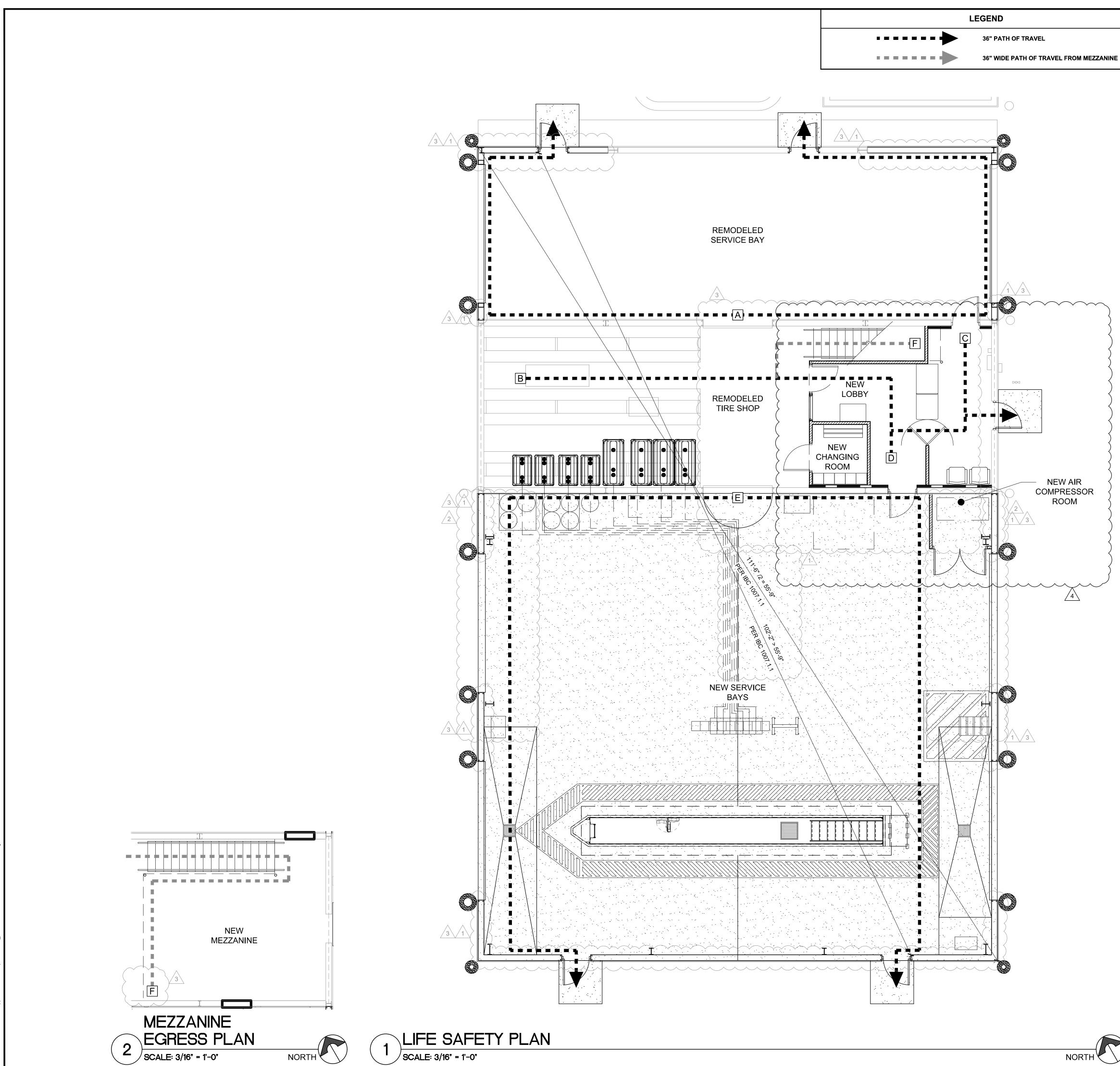
HWT

INFO

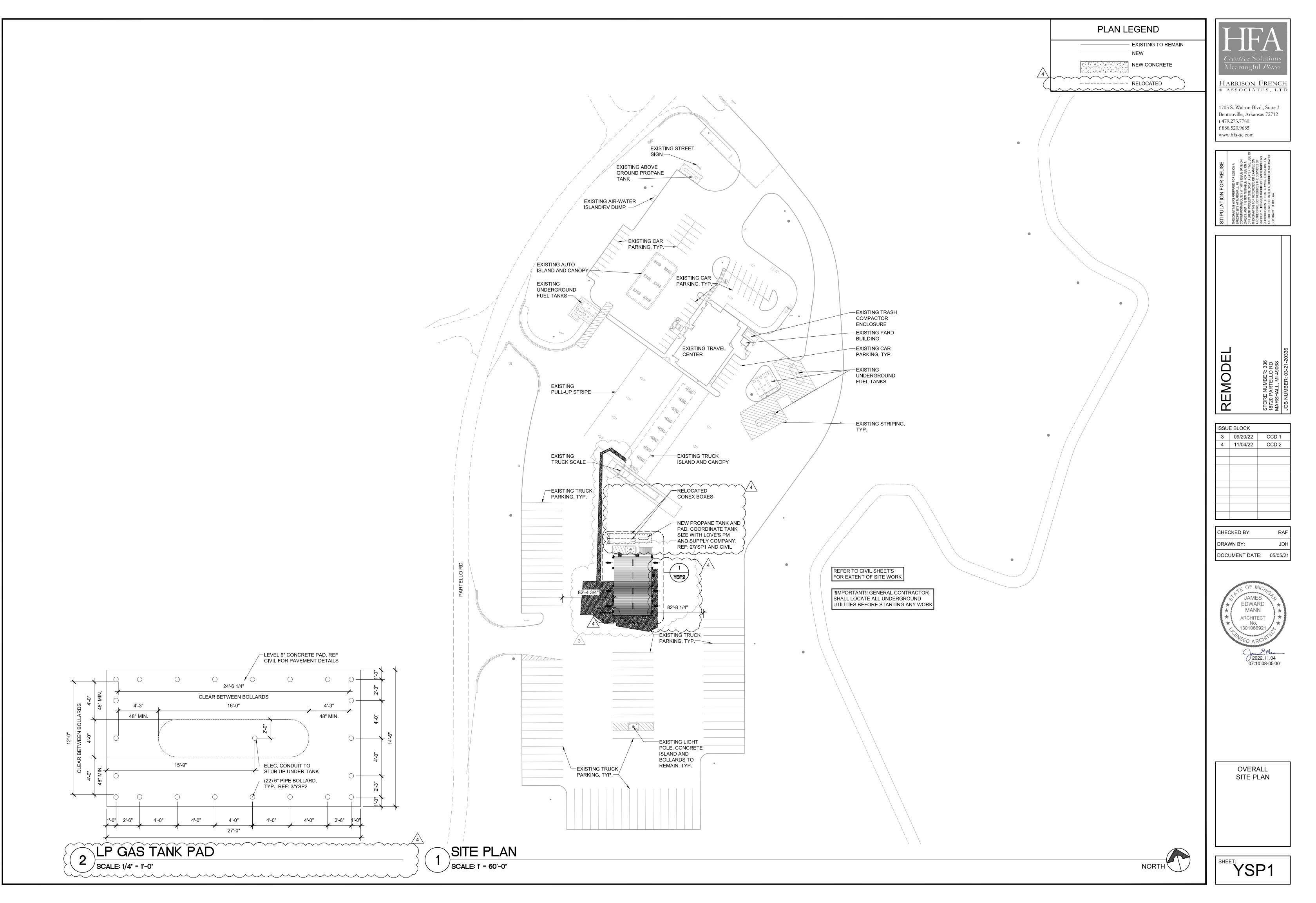
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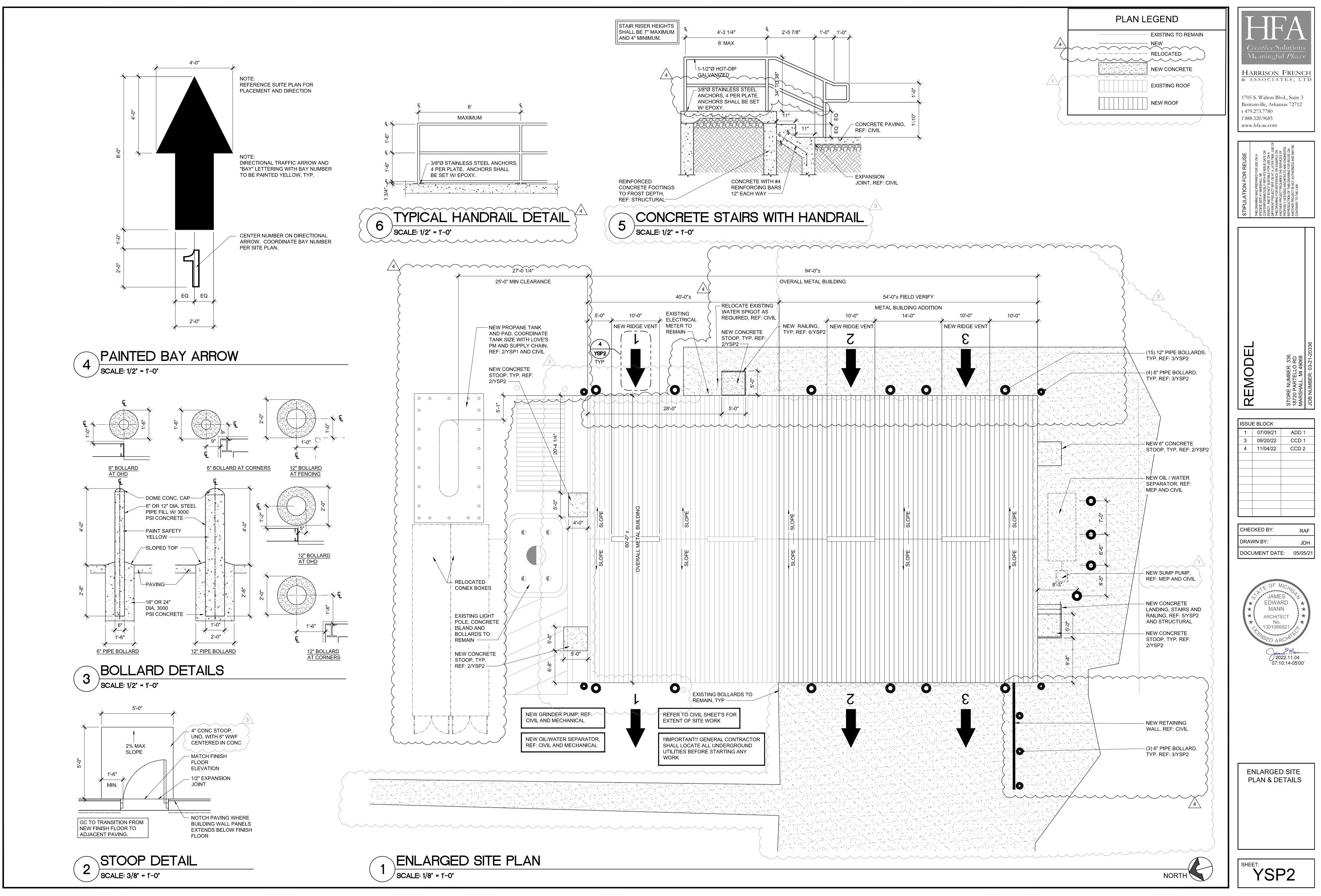
HOT WATER TANK

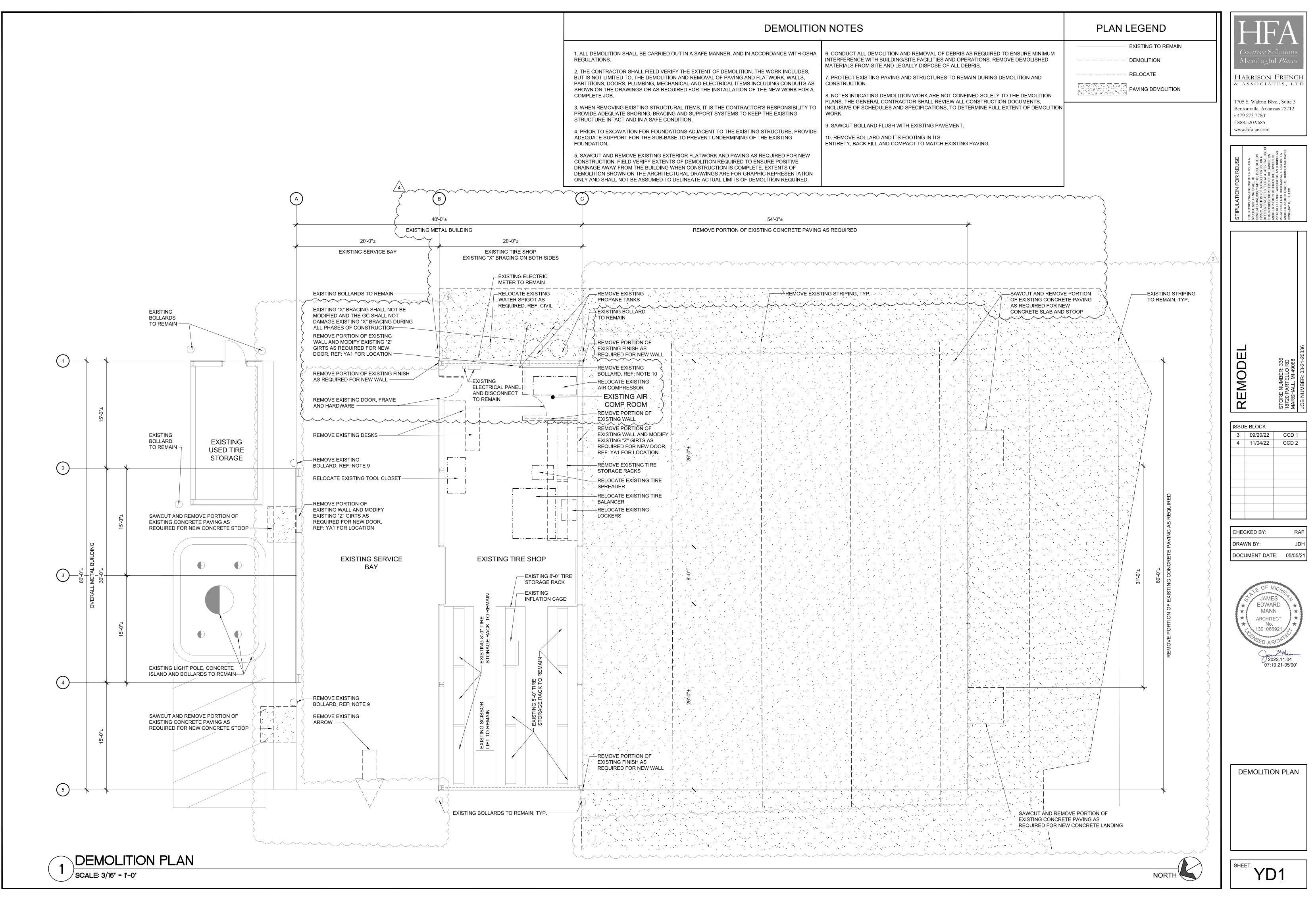
INFORMATION LENGTH | MAXIMUM

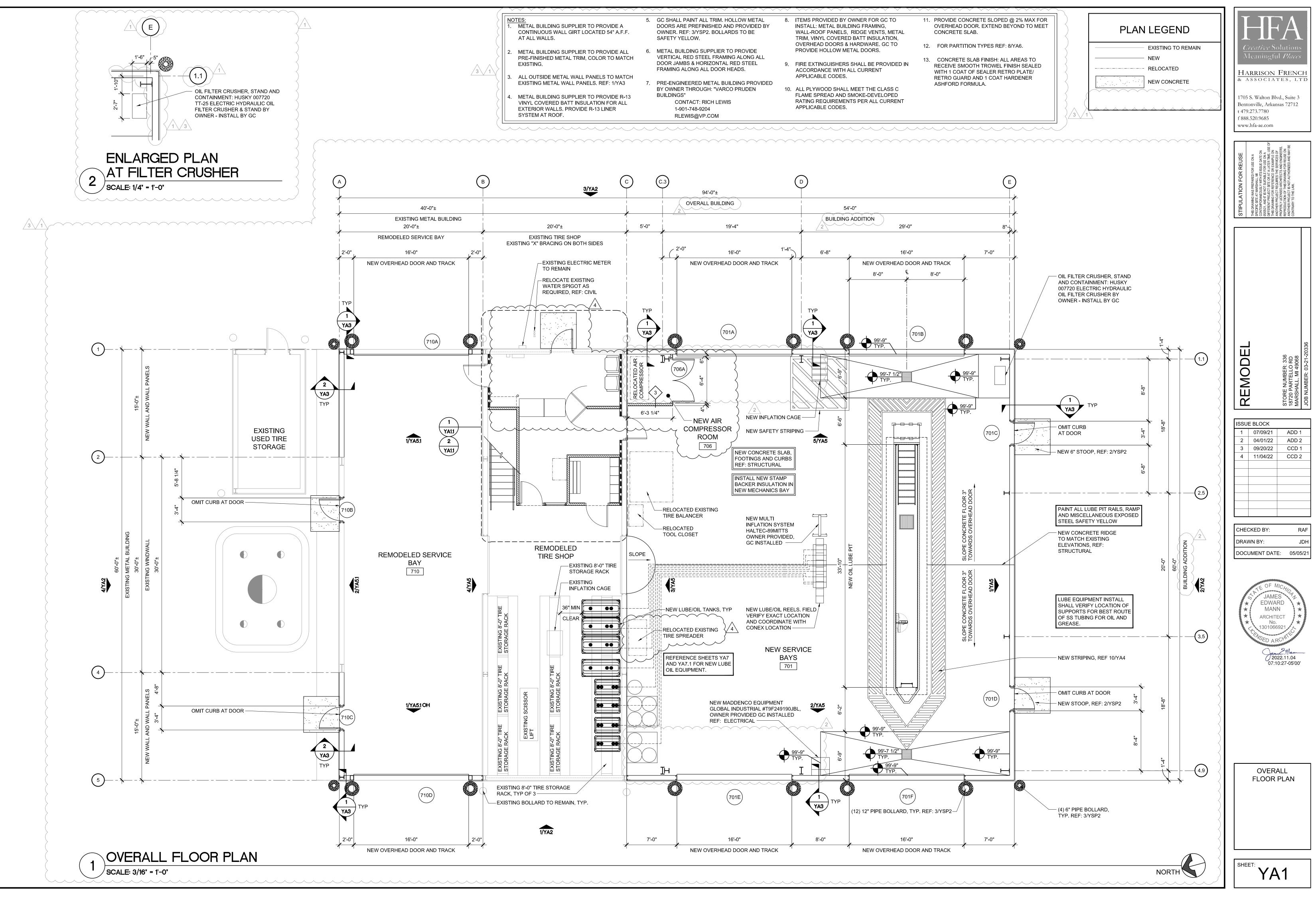


_	Egress Area & Occupant Load	Calculations	
	Occupant Load Calculation Per IBC 1004.1.2 Table: Remodeled Service Bay =	1,200 SF	
-	1,200 SF @ 500 SF GROSS =	3 Occupants	Creative Solution Meaningful Place
a A	Total Occupant Load For Area (A)=	3 Occupants	HARRISON FREN
Area	Egress Width Required Per IBC 1005.3.2: 0.2 Inches Per Occupant @ 3 Occupants = Total Inches Req'd For Area (A)=	0.6 Inches 0.6 Inches Required	& ASSOCIATES, L 1705 S. Walton Blvd., Suite 3 Bentonville, Arkansas 72712
	<u>Egress Width Provided:</u> 2 Door(s) @ 32 inches = Total Inches Provided For Area (A)=	64 Inches 64 Inches Provided	t 479.273.7780 f 888.520.9685 www.hfa-ae.com
	Occupant Load Calculation Per IBC 1004.1.2 Table:		ل الن الن الن الن الن الن الن الن الن ال
В	Existing Tire Shop = 835 SF @ 500 SF GROSS = Total Occupant Load For Area (B)=	835 SF 2 Occupants 2 Occupants	DR REUSE DR REUSE ON A M M M M M M M M M M M M M
Area	Egress Width Required Per IBC 1005.3.2: 0.2 Inches Per Occupant @ 2 Occupants = Total Inches Req'd For Area (B)=	0.4 Inches 0.4 Inches Required	STIPULATION FOR REUSE STIPULATION FOR REUSE HIS DRAWING WAS PREPARED FOR USE ON A SPECIFIC SITE AT MARSHALL, MI SPECIFIC SITE AT MARSHALL, MI SOUTEMPOSATEOUSLY WITH ITS ISSUE DATE O 5605/21, AND IT IS NOT SUITABLE FOR USE ON A DISTREM PROJECT SITE OAT A LATTER TIME. THS DRAWING FOR REFERENCE OR EXAMPLE O HIS DRAWING FOR REFERENCE OR EXAMPLE OF PROJECT IS NOT SUITABLE FOR USE ON A OF PROJECT IS NOT SUITABLE FOR USE ON A SOUTEARY TO THE LAW.
	Egress Width Provided: 2 Door(s) @ 32 inches =	64 Inches	CONCENTRATE OF CONCEN
	Total Inches Provided For Area (B)=	64 Inches Provided	
	Occupant Load Calculation Per IBC 1004.1.2 Table: New Lobby (Mercantile) =	97 SF	$\left\{ \right\}$
U	97 SF @ 30 SF GROSS = Total Occupant Load For Area (C)=	4 Occupants 4 Occupants	
Area	Egress Width Required Per IBC 1005.3.2: 0.2 Inches Per Occupant @ 4 Occupants = Total Inches Req'd For Area (C)=	0.8 Inches 0.8 Inches Required	
	Egress Width Provided: 1 Door(s) @ 32 inches = Total Inches Provided For Area (C)=	32 Inches 32 Inches Provided	$\left\{ \right\}$
	Occupant Load Calculation Per IBC 1004.1.2 Table:		
۵	New Lobby (Business) = 268 SF @ 100 SF GROSS = Total Occupant Load For Area (D)=	268 SF 3 Occupants 3 Occupants	REMODE STORE NUMBER: 336 18720 PARTELLO RD MARSHALL, MI 49068
Area	<u>Egress Width Required Per IBC 1005.3.2:</u> 0.2 Inches Per Occupant @ 3 Occupants = Total Inches Req'd For Area (D)=	0.6 Inches 0.6 Inches Required	STORE NU 18720 PAF MARSHAL
4	Egress Width Provided: 1 Door(s) @ 32 inches = Total Inches Provided For Area (D)=	32 Inches 32 Inches Provided	ISSUE BLOCK 1 07/09/21 ADD 1 2 04/01/22 ADD 2 3 09/20/22 CCD 2
	Occupant Load Calculation Per IBC 1004.1.2 Table: New Service Bays =	3,240 SF	4 11/04/22 CCD 2
ш	3,240 SF @ 500 SF GROSS = Total Occupant Load For Area (E)=	7 Occupants 7 Occupants	
Area	Egress Width Required Per IBC 1005.3.2: 0.2 Inches Per Occupant @ 7 Occupants = Total Inches Req'd For Area (E)=	1.4 Inches 1.4 Inches Required	
	Egress Width Provided: 2 Door(s) @ 32 inches = Total Inches Provided For Area (E)=	64 Inches 64 Inches Provided	CHECKED BY: F
	Occupant Load Calculation Per IBC 1004.1.2 Table:		DOCUMENT DATE: 05/0
L	New Mezzanine = 333 SF @ 500 SF GROSS = Total Occupant Load For Area (F)=	333 SF 1 Occupants 1 Occupants	JAMES
Vrea	<u>Egress Width Required Per IBC 1005.3.2:</u> 0.2 Inches Per Occupant @ 1 Occupants = Total Inches Req'd For Area (F)=	0.2 Inches 0.2 Inches Required	★ EDWARD ★ MANN ★ ARCHITECT ★ No.
4	<u>Egress Width Provided:</u> 1 Door(s) @ 32 inches = Total Inches Provided For Area (F)=	32 Inches 32 Inches Provided	1301066921 A Stored ARCHITE
	Egress Path		0 ⁷ 2022.11.04 07:10:02-05'00
Exit Path A	Exit Travel Distance 64' - 0''		
B C	59' - 0'' 12' - 0''		
D E F	17' - 0" 83' - 0" 85' - 0"		
1. ALL EX	DISTANCE OF TRAVEL - TABLE 1017.2 IBC = 2	And a second s	
2. ALL EC	ISHERS, AND PLUMBING FIXTURES ARE TO REMAIN UNT RESS DOORS SHALL BE READILY OPENABLE WITH LEVER HOUT USE OF A KEY OR SPECIAL KNOWLEDGE.		
3	EGRESS PATH:		SAFETY PLAN
	REVISE EXIT TRAVEL DISTANCE OF EXIT PATH B, C, D, AND F.		
			SHEET:





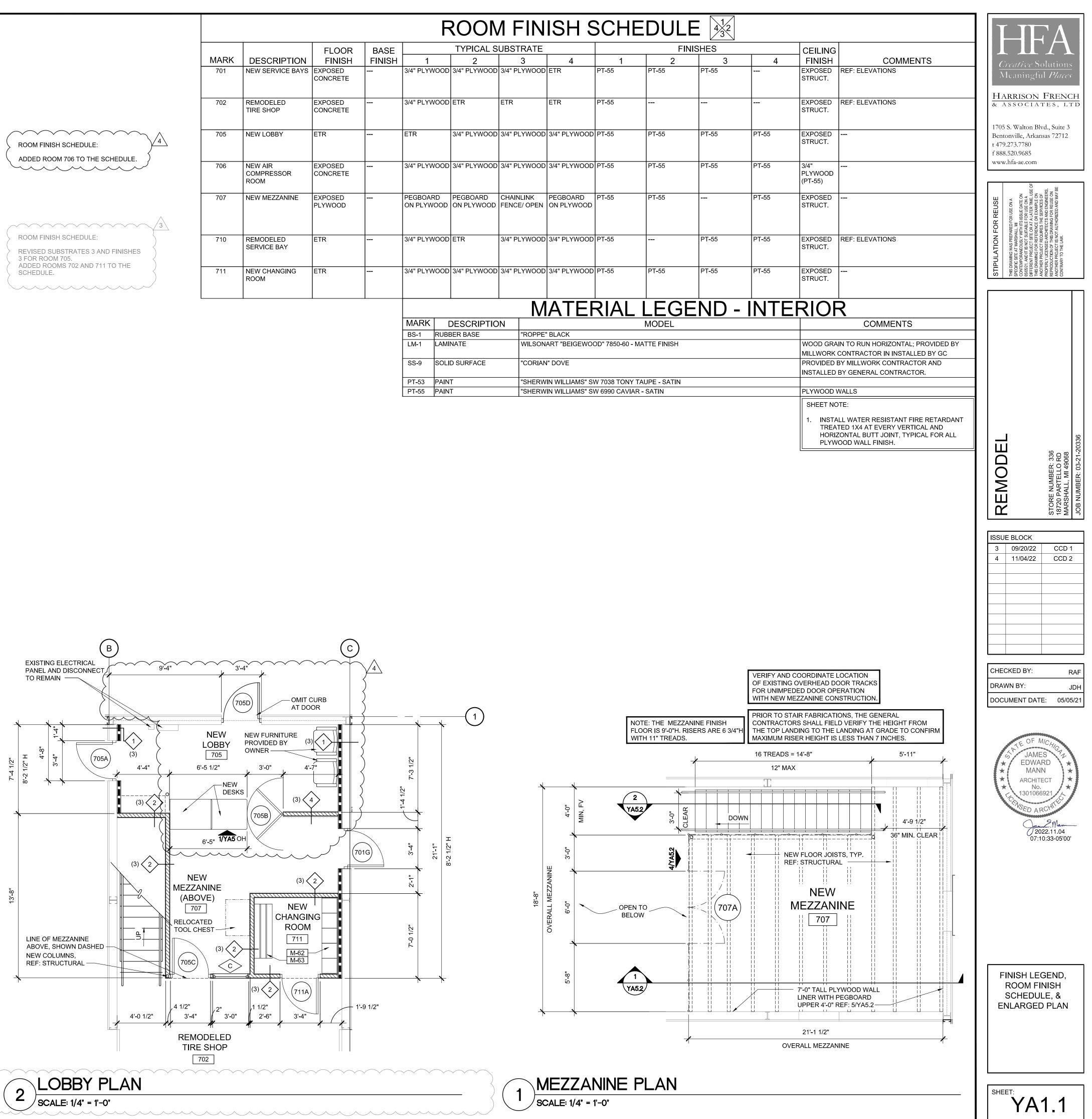


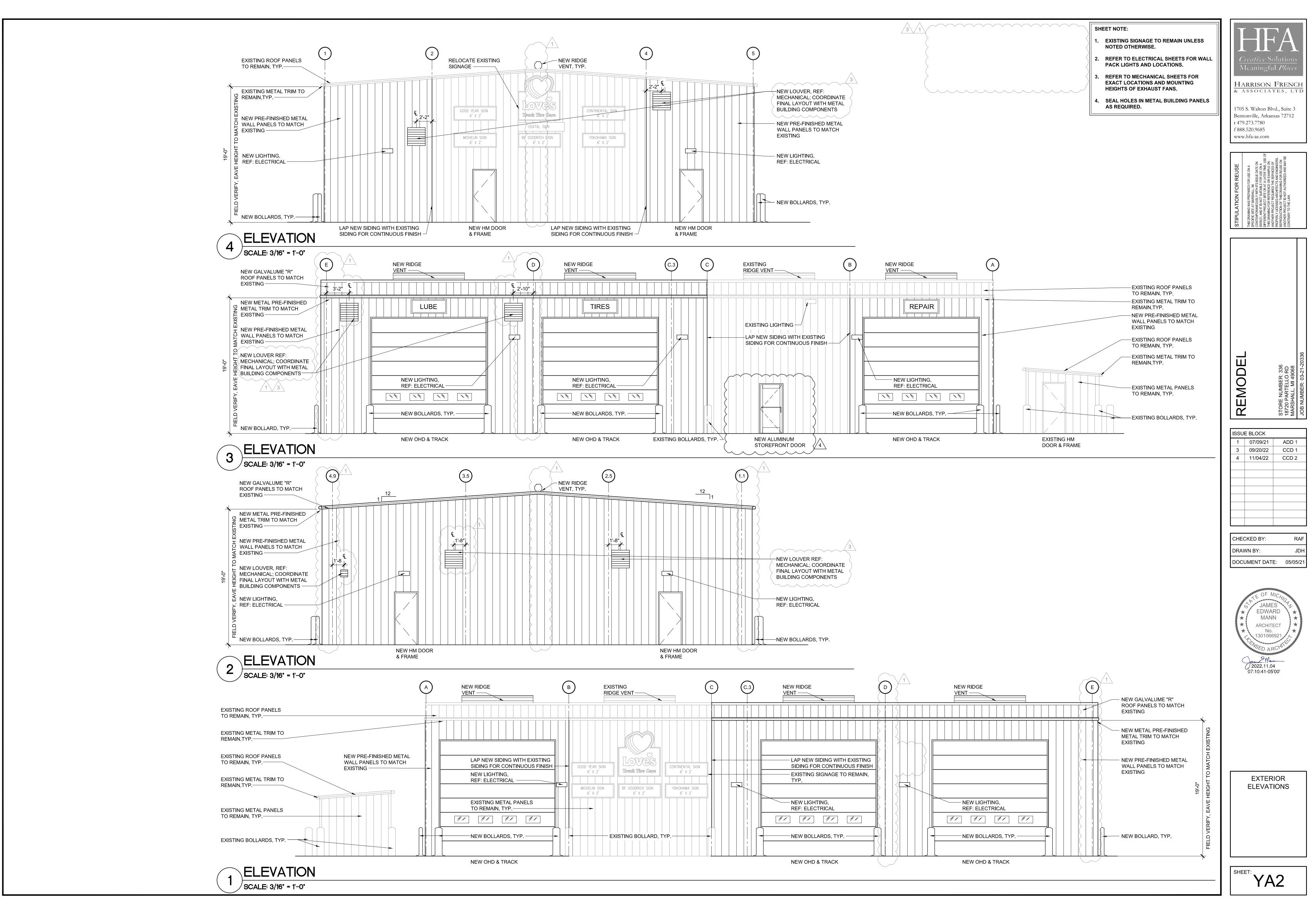




	MI	SC	ELLANEOUS	S EQU	IPMEN	T
ITEM	DESCRIPTION	QTY	MODEL	SUPPLIED BY	INSTALLED BY	REMARKS
M-62	LOCKERS	5	BOX LOCKERS 5 TIER, 3 WIDE, GRAY	OWNER	G.C.	
M-63	BENCH	1	GRAINGER 72" BENCH BLUE	OWNER	G.C.	

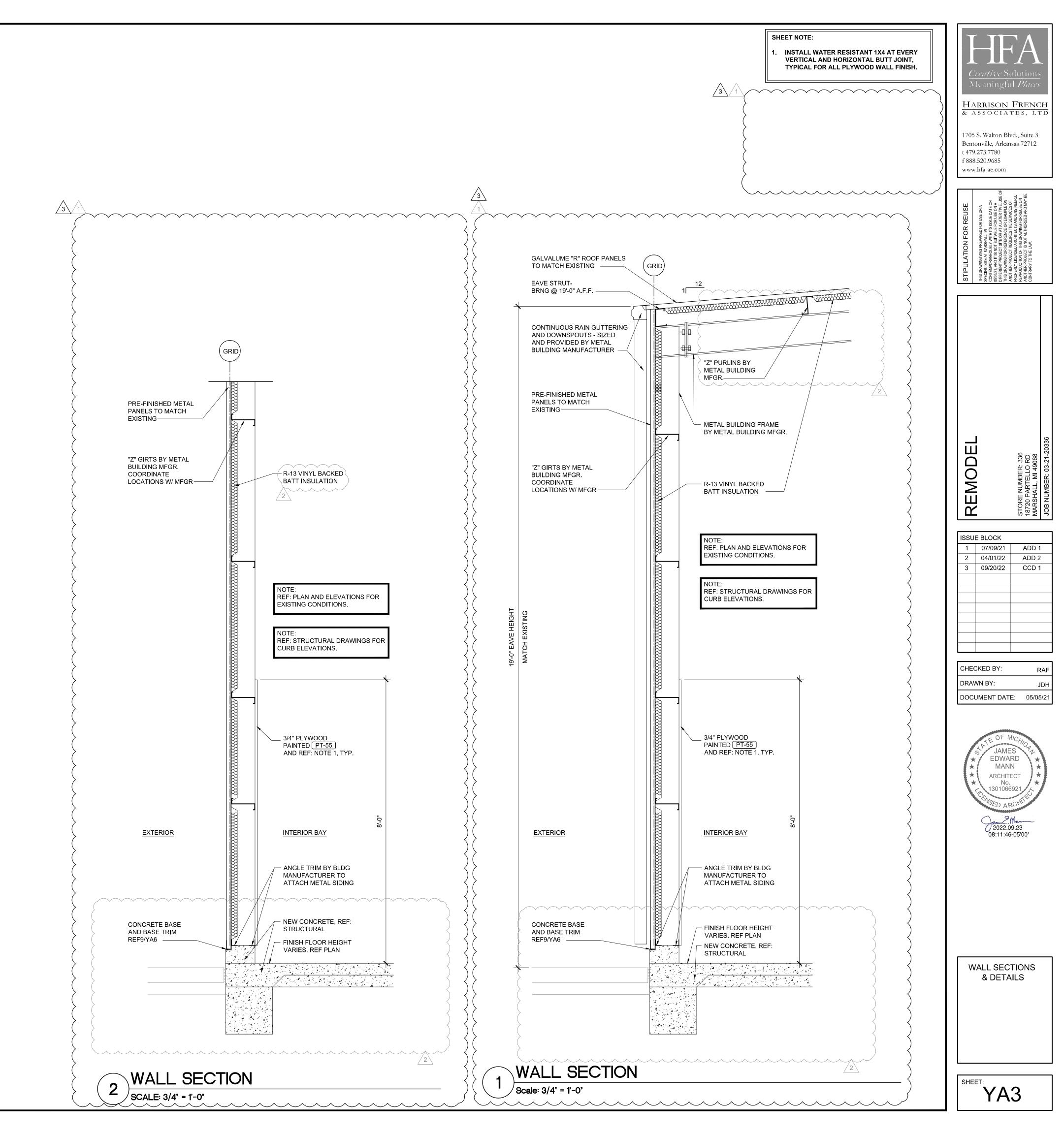
					F	ROON	/I FIN	ISH S
			FLOOR	BASE		TYPICAL S	UBSTRATE	
	MARK	DESCRIPTION	FINISH	FINISH	1	2	3	4
	701	NEW SERVICE BAYS	EXPOSED CONCRETE		3/4" PLYWOOD	3/4" PLYWOOD	3/4" PLYWOOD	ETR
	702	REMODELED TIRE SHOP	EXPOSED CONCRETE		3/4" PLYWOOD	ETR	ETR	ETR
ROOM FINISH SCHEDULE:	705	NEW LOBBY	ETR		ETR	3/4" PLYWOOD	3/4" PLYWOOD	3/4" PLYWOOE
ADDED ROOM 706 TO THE SCHEDULE.	706	NEW AIR COMPRESSOR ROOM	EXPOSED CONCRETE		3/4" PLYWOOD	3/4" PLYWOOD	3/4" PLYWOOD	3/4" PLYWOOE
\wedge	707	NEW MEZZANINE	EXPOSED PLYWOOD		PEGBOARD ON PLYWOOD	PEGBOARD ON PLYWOOD	CHAINLINK FENCE/ OPEN	PEGBOARD ON PLYWOOD
ROOM FINISH SCHEDULE: REVISED SUBSTRATES 3 AND FINISHES 3 FOR ROOM 705.	710	REMODELED SERVICE BAY	ETR		3/4" PLYWOOD	ETR	3/4" PLYWOOD	3/4" PLYWOOE
ADDED ROOMS 702 AND 711 TO THE SCHEDULE.	711	NEW CHANGING ROOM	ETR		3/4" PLYWOOD	3/4" PLYWOOD	3/4" PLYWOOD	3/4" PLYWOOE
							M	ATE
					MARK [DESCRIPTIC		
						BER BASE	"ROPPE	
								ART "REIGEW/C

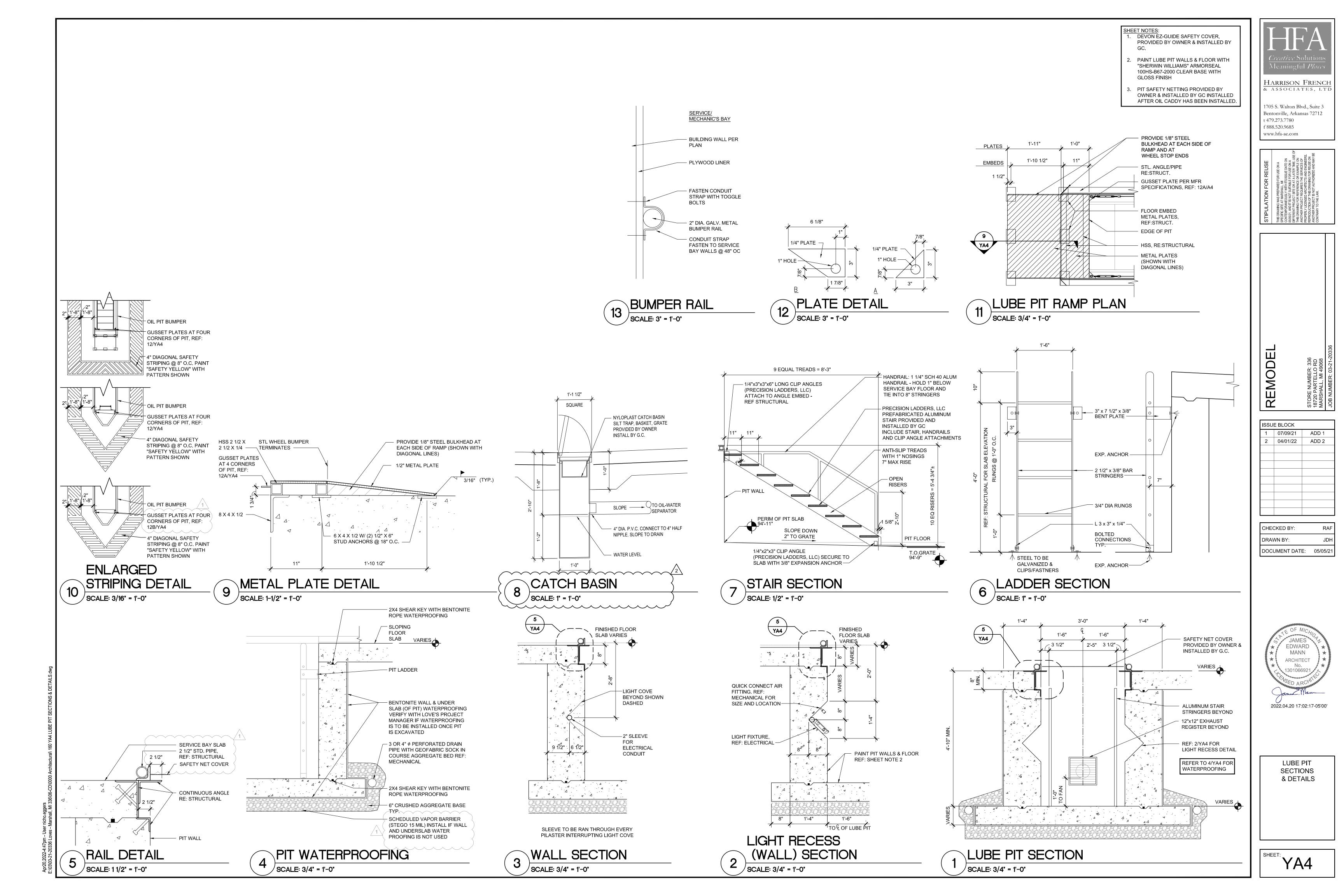


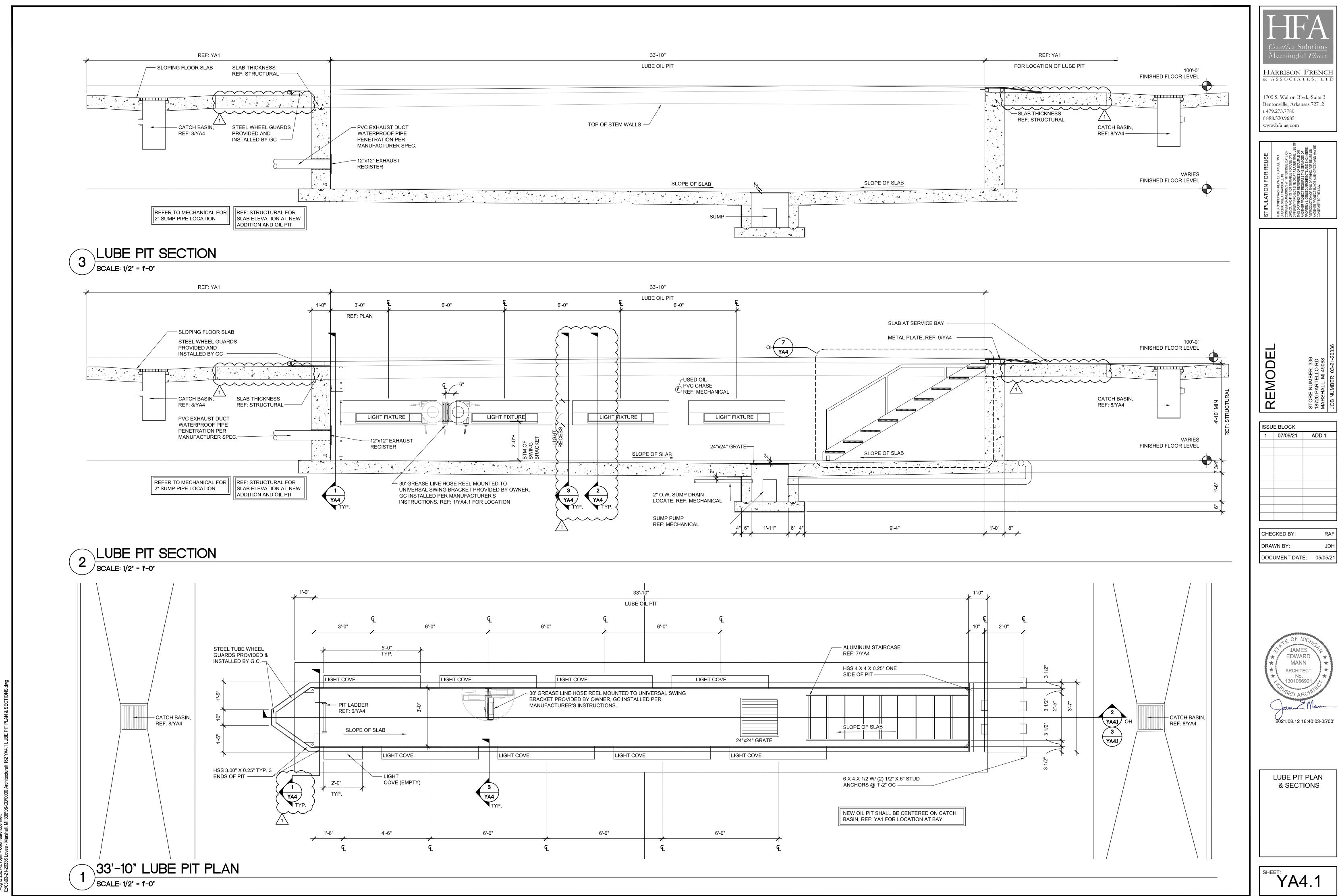


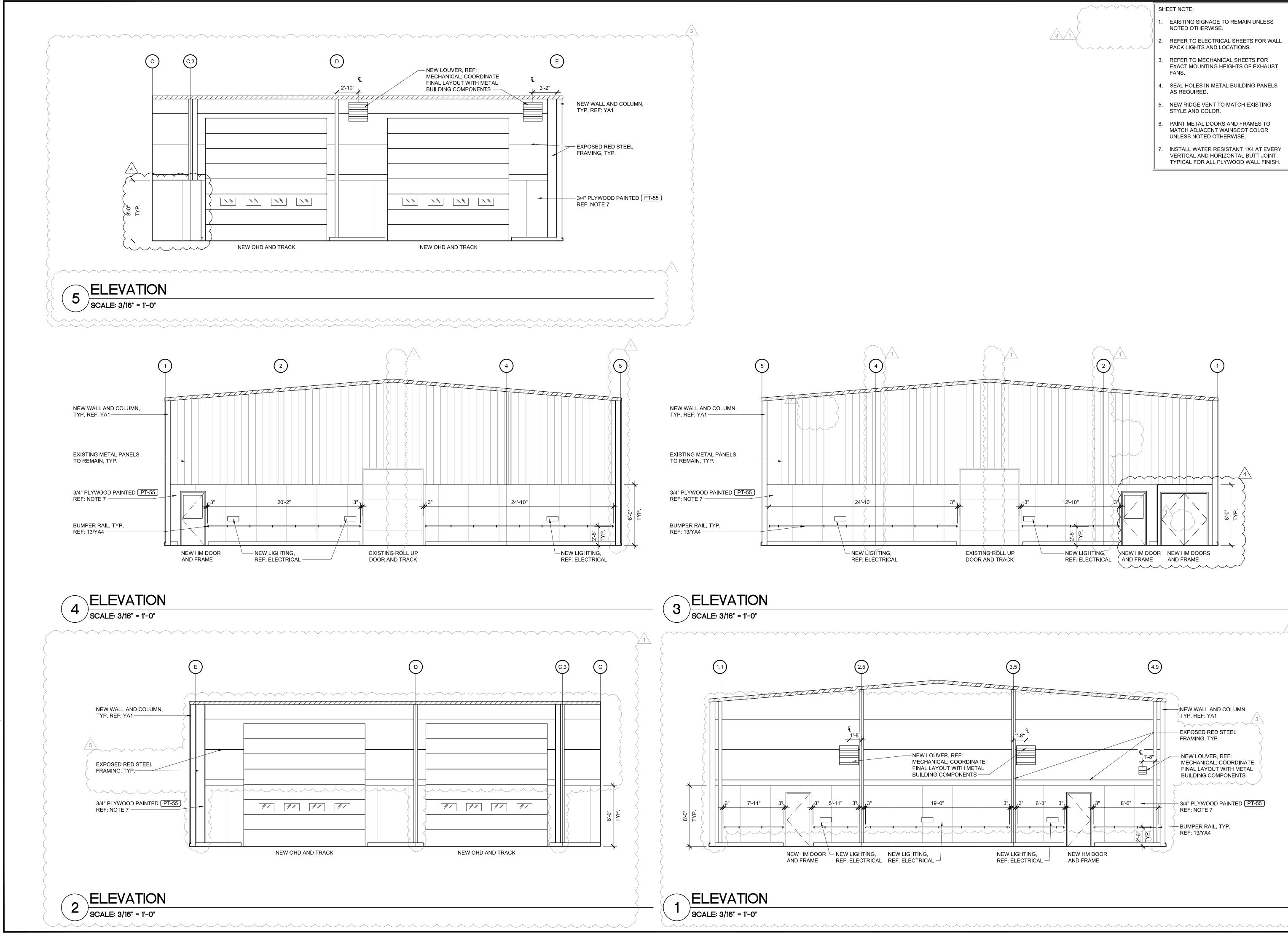
Nov03,2022-11:03pm - User joseph.haney E:\03\03-21-20336 Loves - Marshall, MI 336\06-CD\0000 Architectural\ 140 YA2 EXTERIOR ELEVATIONS.c

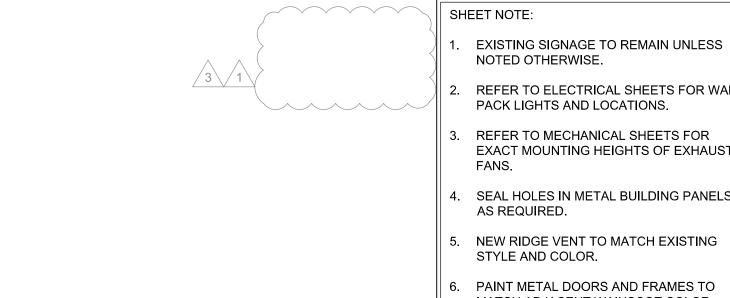
Sep21,2022-9:51pm - User Joseph.haney ::03\03-21-20336 Loves - Marshall, MI 336\06-CD\0000 Architectural\ 150 YA3 WALL SECTIONS & DETAILS.dwg

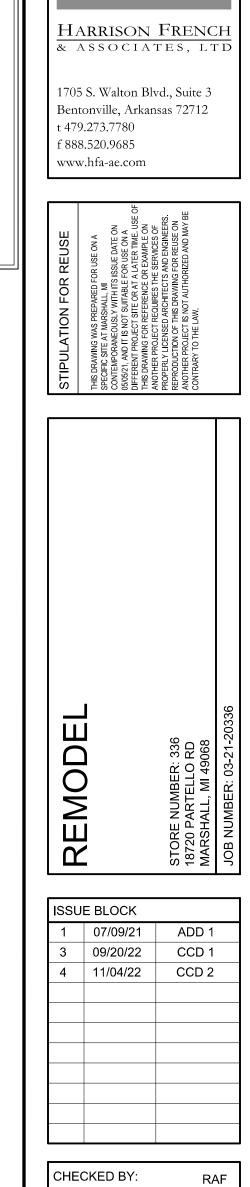


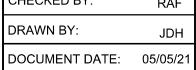




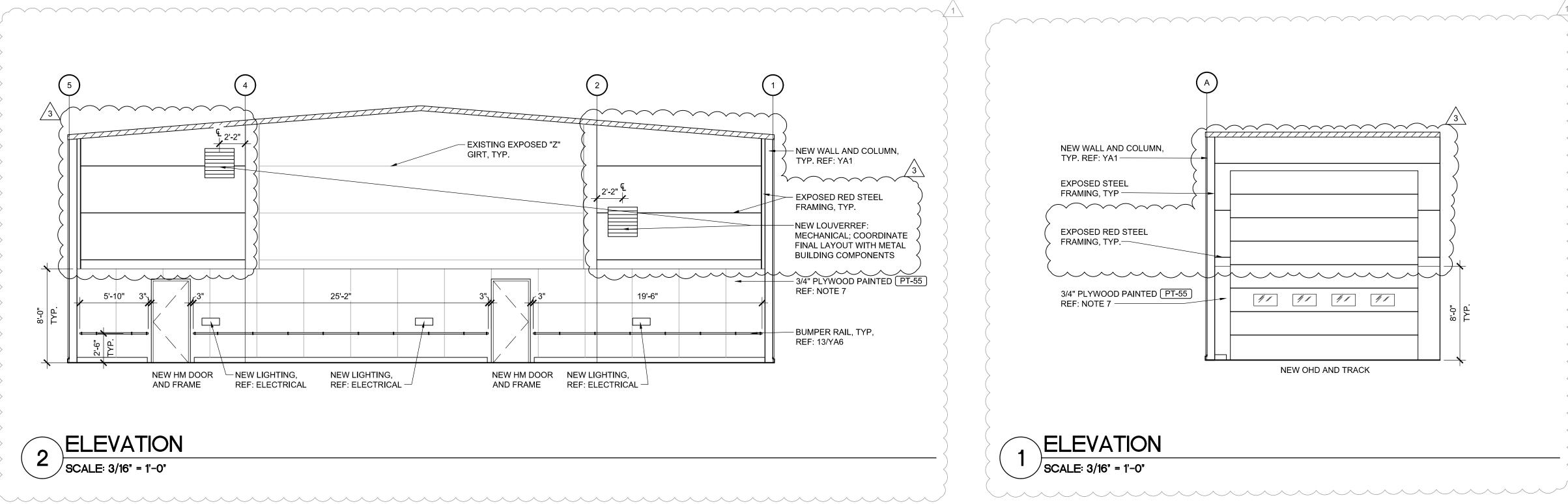








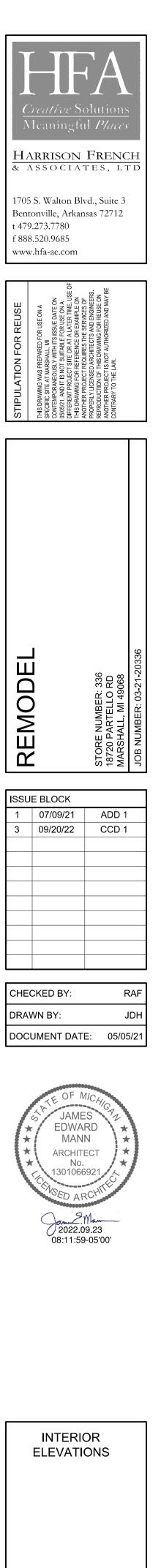




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SHEET NOTE:

- EXISTING SIGNAGE TO REMAIN UNLESS NOTED OTHERWISE.
- 2. 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.
- 6. 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.



SHEET:

YA5.1

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

NEW WALL AND COLUMN, TYP. REF: YA1

 $\checkmark \checkmark \checkmark \checkmark$

3/4" PLYWOOD PAINTED (PT-55) REF: NOTE 7

EXPOSED STEEL FRAMING, TYP ——

EXPOSED RED STEEL

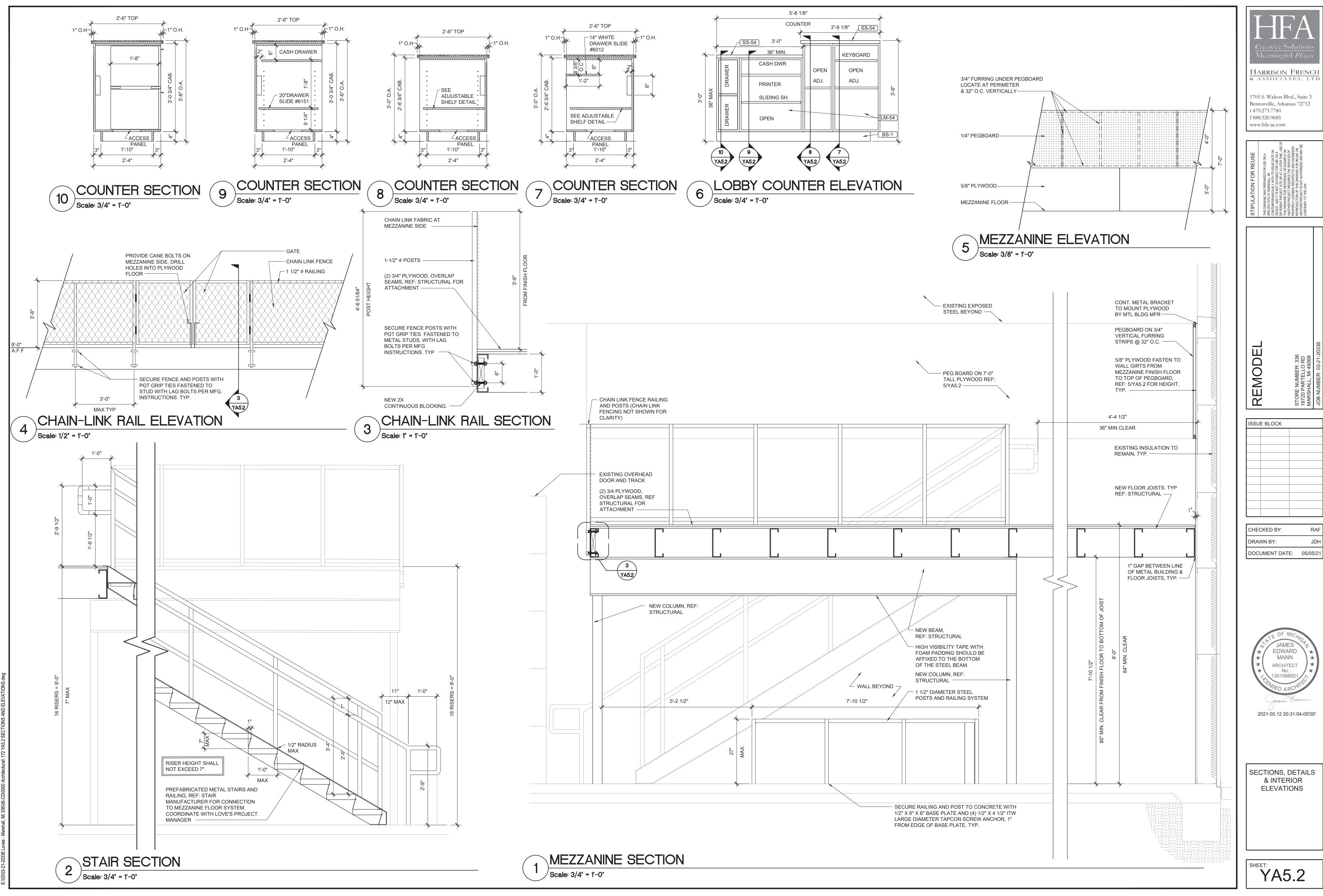
FRAMING, TYP.---

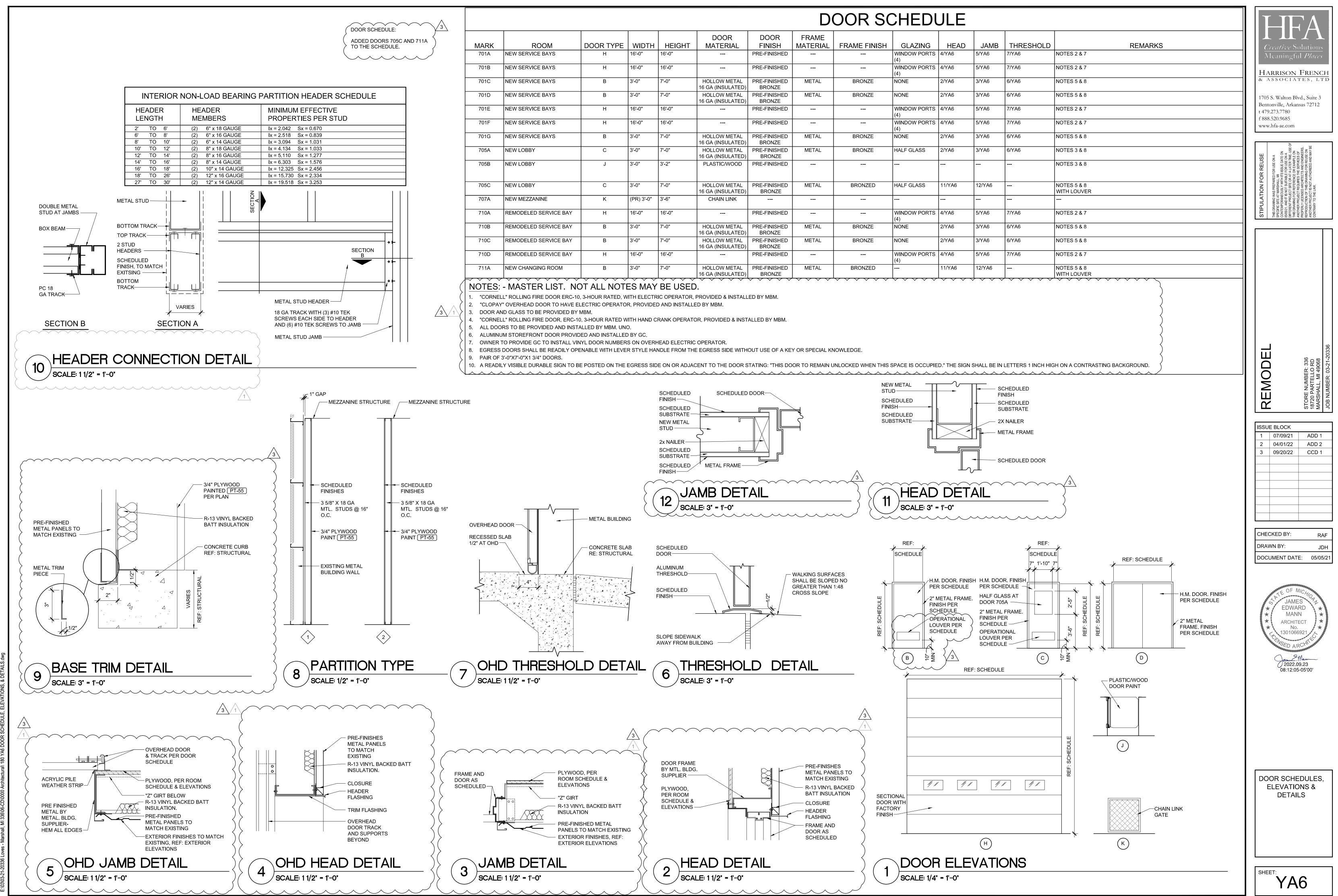
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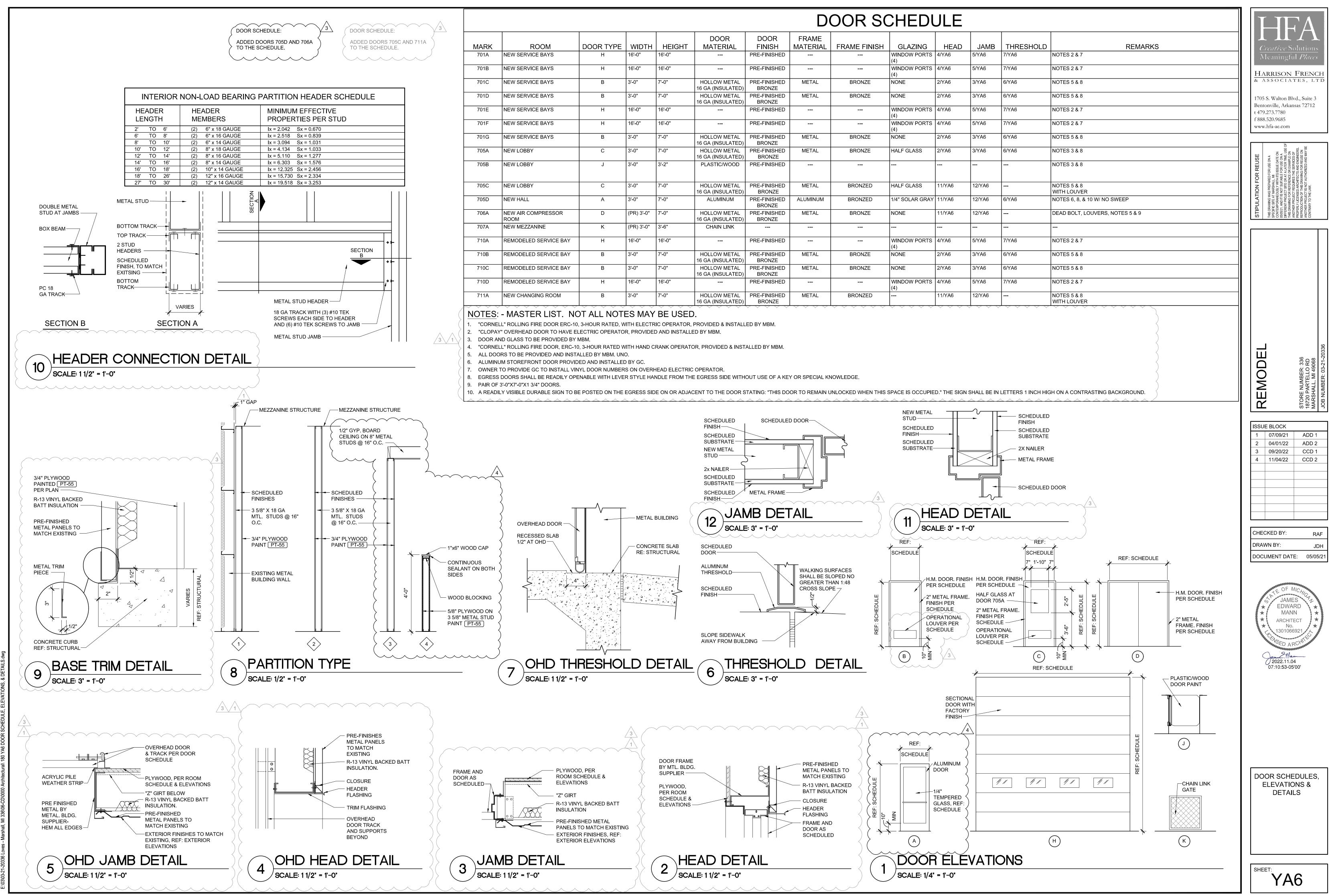
NEW OHD AND TRACK

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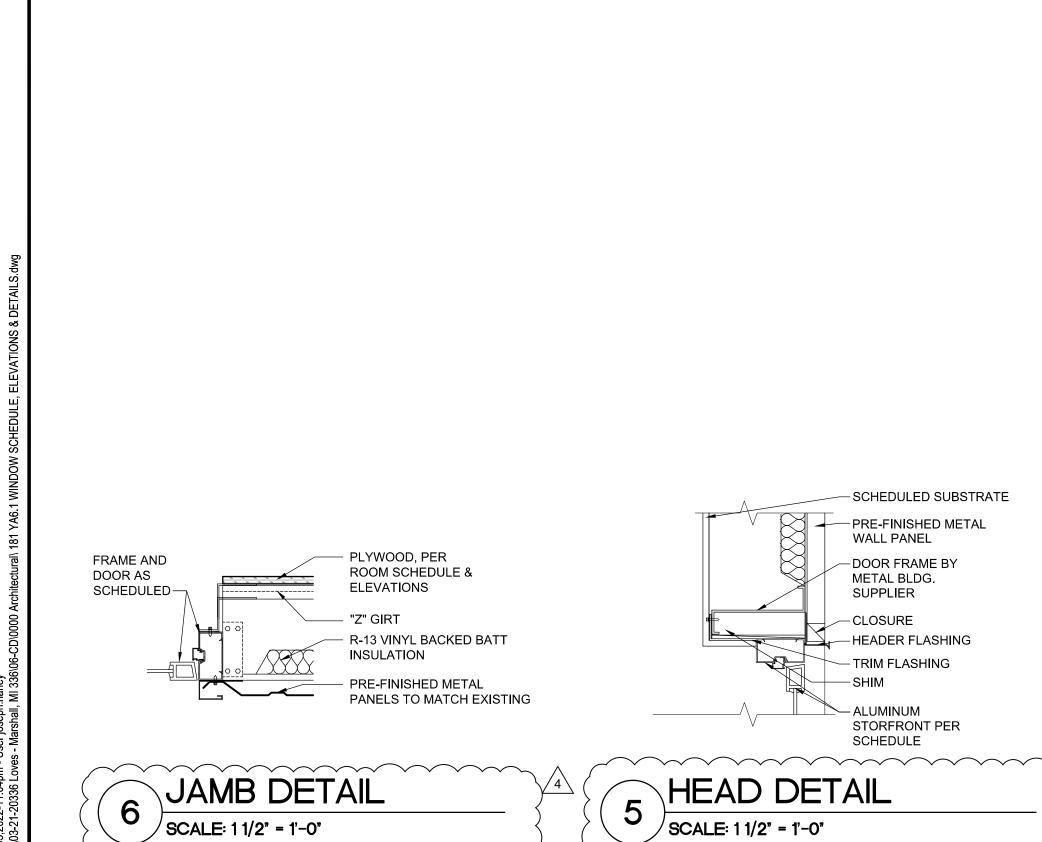




							D	OOR SO	CHE
MARK	ROOM	DOOR TYPE	WIDTH	HEIGHT	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	GLAZI
701A	NEW SERVICE BAYS	Н	16'-0"	16'-0"		PRE-FINISHED			WINDOW F (4)
701B	NEW SERVICE BAYS	н	16'-0"	16'-0"		PRE-FINISHED			WINDOW F (4)
701C	NEW SERVICE BAYS	В	3'-0"	7'-0"	HOLLOW METAL 16 GA (INSULATED)	PRE-FINISHED BRONZE	METAL	BRONZE	NONE
701D	NEW SERVICE BAYS	В	3'-0"	7'-0"	HOLLOW METAL 16 GA (INSULATED)	PRE-FINISHED BRONZE	METAL	BRONZE	NONE
701E	NEW SERVICE BAYS	Н	16'-0"	16'-0"		PRE-FINISHED			WINDOW F (4)
701F	NEW SERVICE BAYS	н	16'-0"	16'-0"		PRE-FINISHED			WINDOW F (4)
701G	NEW SERVICE BAYS	В	3'-0"	7'-0"	HOLLOW METAL 16 GA (INSULATED)	PRE-FINISHED BRONZE	METAL	BRONZE	NONE
705A	NEW LOBBY	С	3'-0"	7'-0"	HOLLOW METAL 16 GA (INSULATED)	PRE-FINISHED BRONZE	METAL	BRONZE	HALF GLAS
705B	NEW LOBBY	J	3'-0"	3'-2"	PLASTIC/WOOD	PRE-FINISHED			
705C	NEW LOBBY	С	3'-0"	7'-0"	HOLLOW METAL 16 GA (INSULATED)	PRE-FINISHED BRONZE	METAL	BRONZED	HALF GLAS
707A	NEW MEZZANINE	К	(PR) 3'-0"	3'-6"	CHAIN LINK				
710A	REMODELED SERVICE BAY	н	16'-0"	16'-0"		PRE-FINISHED			WINDOW F (4)
710B	REMODELED SERVICE BAY	В	3'-0"	7'-0"	HOLLOW METAL 16 GA (INSULATED)	PRE-FINISHED BRONZE	METAL	BRONZE	NONE
710C	REMODELED SERVICE BAY	В	3'-0"	7'-0"	HOLLOW METAL 16 GA (INSULATED)	PRE-FINISHED BRONZE	METAL	BRONZE	NONE
710D	REMODELED SERVICE BAY	Н	16'-0"	16'-0"		PRE-FINISHED			WINDOW F (4)
711A	NEW CHANGING ROOM	В	3'-0"	7'-0"	HOLLOW METAL 16 GA (INSULATED)	PRE-FINISHED BRONZE	METAL	BRONZED	



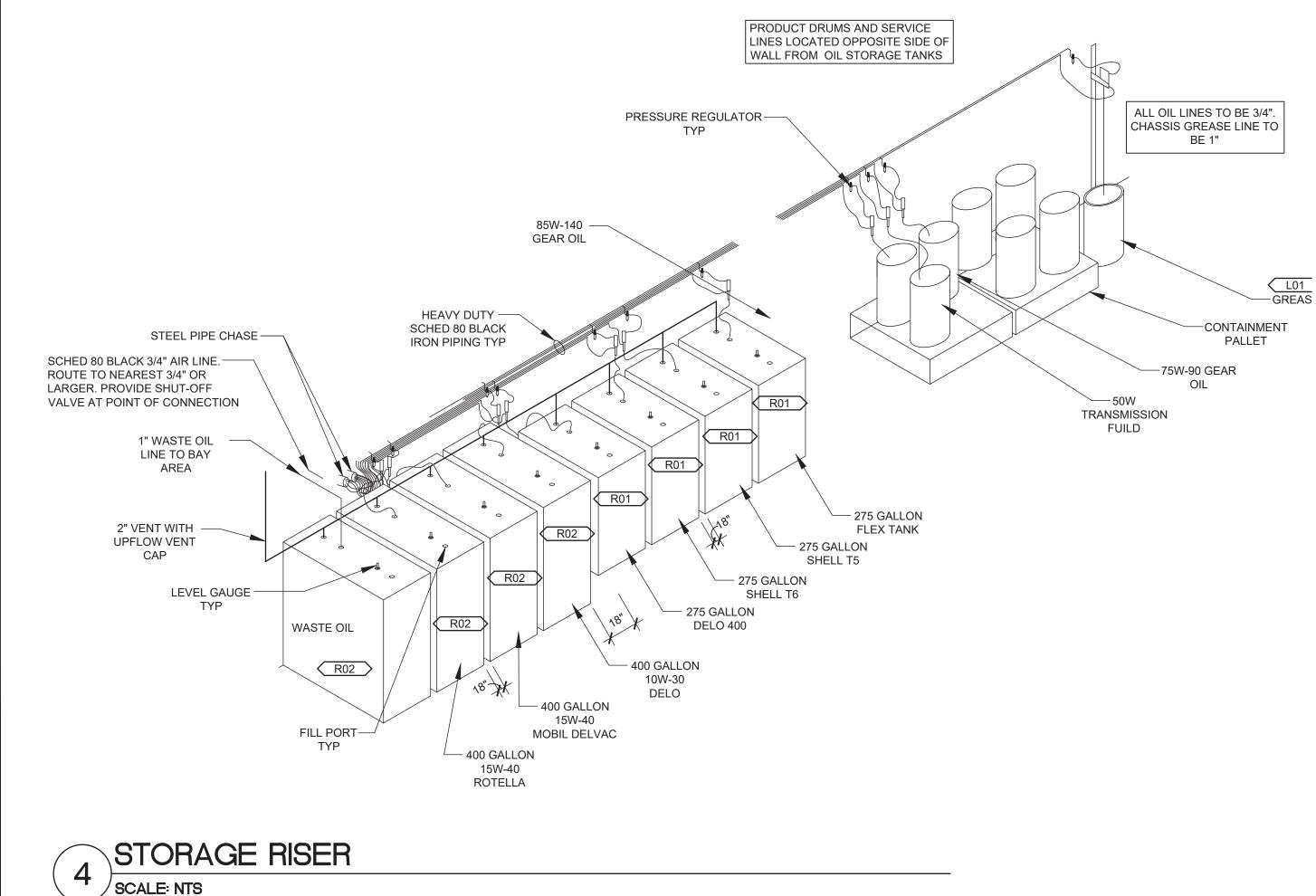
							D	OOR SO	CHE
MARK	ROOM	DOOR TYPE	WIDTH	HEIGHT	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	GLAZ
701A	NEW SERVICE BAYS	н	16'-0"	16'-0"		PRE-FINISHED			WINDOW I (4)
701B	NEW SERVICE BAYS	Н	16'-0"	16'-0"		PRE-FINISHED			WINDOW F (4)
701C	NEW SERVICE BAYS	В	3'-0"	7'-0"	HOLLOW METAL 16 GA (INSULATED)	PRE-FINISHED BRONZE	METAL	BRONZE	NONE
701D	NEW SERVICE BAYS	В	3'-0"	7'-0"	HOLLOW METAL 16 GA (INSULATED)	PRE-FINISHED BRONZE	METAL	BRONZE	NONE
701E	NEW SERVICE BAYS	н	16'-0"	16'-0"		PRE-FINISHED			WINDOW F (4)
701F	NEW SERVICE BAYS	н	16'-0"	16'-0"		PRE-FINISHED			WINDOW F (4)
701G	NEW SERVICE BAYS	В	3'-0"	7'-0"	HOLLOW METAL 16 GA (INSULATED)	PRE-FINISHED BRONZE	METAL	BRONZE	NONE
705A	NEW LOBBY	С	3'-0"	7'-0"	HOLLOW METAL 16 GA (INSULATED)	PRE-FINISHED BRONZE	METAL	BRONZE	HALF GLAS
705B	NEW LOBBY	J	3'-0"	3'-2"	PLASTIC/WOOD	PRE-FINISHED			
705C	NEW LOBBY	С	3'-0"	7'-0"	HOLLOW METAL 16 GA (INSULATED)	PRE-FINISHED BRONZE	METAL	BRONZED	HALF GLAS
705D	NEW HALL	A	3'-0"	7'-0"	ALUMINUM	PRE-FINISHED BRONZE	ALUMINUM	BRONZED	1/4" SOLAF
706A	NEW AIR COMPRESSOR ROOM	D	(PR) 3'-0"	7'-0"	HOLLOW METAL 16 GA (INSULATED)	PRE-FINISHED BRONZE	METAL	BRONZE	NONE
707A	NEW MEZZANINE	К	(PR) 3'-0"	3'-6"	CHAIN LINK				
710A	REMODELED SERVICE BAY	Н	16'-0"	16'-0"		PRE-FINISHED			WINDOW F (4)
710B	REMODELED SERVICE BAY	В	3'-0"	7'-0"	HOLLOW METAL 16 GA (INSULATED)	PRE-FINISHED BRONZE	METAL	BRONZE	NONE
710C	REMODELED SERVICE BAY	В	3'-0"	7'-0"	HOLLOW METAL 16 GA (INSULATED)	PRE-FINISHED BRONZE	METAL	BRONZE	NONE
710D	REMODELED SERVICE BAY	н	16'-0"	16'-0"		PRE-FINISHED			WINDOW F (4)
711A	NEW CHANGING ROOM	В	3'-0"	7'-0"	HOLLOW METAL 16 GA (INSULATED)	PRE-FINISHED BRONZE	METAL	BRONZED	

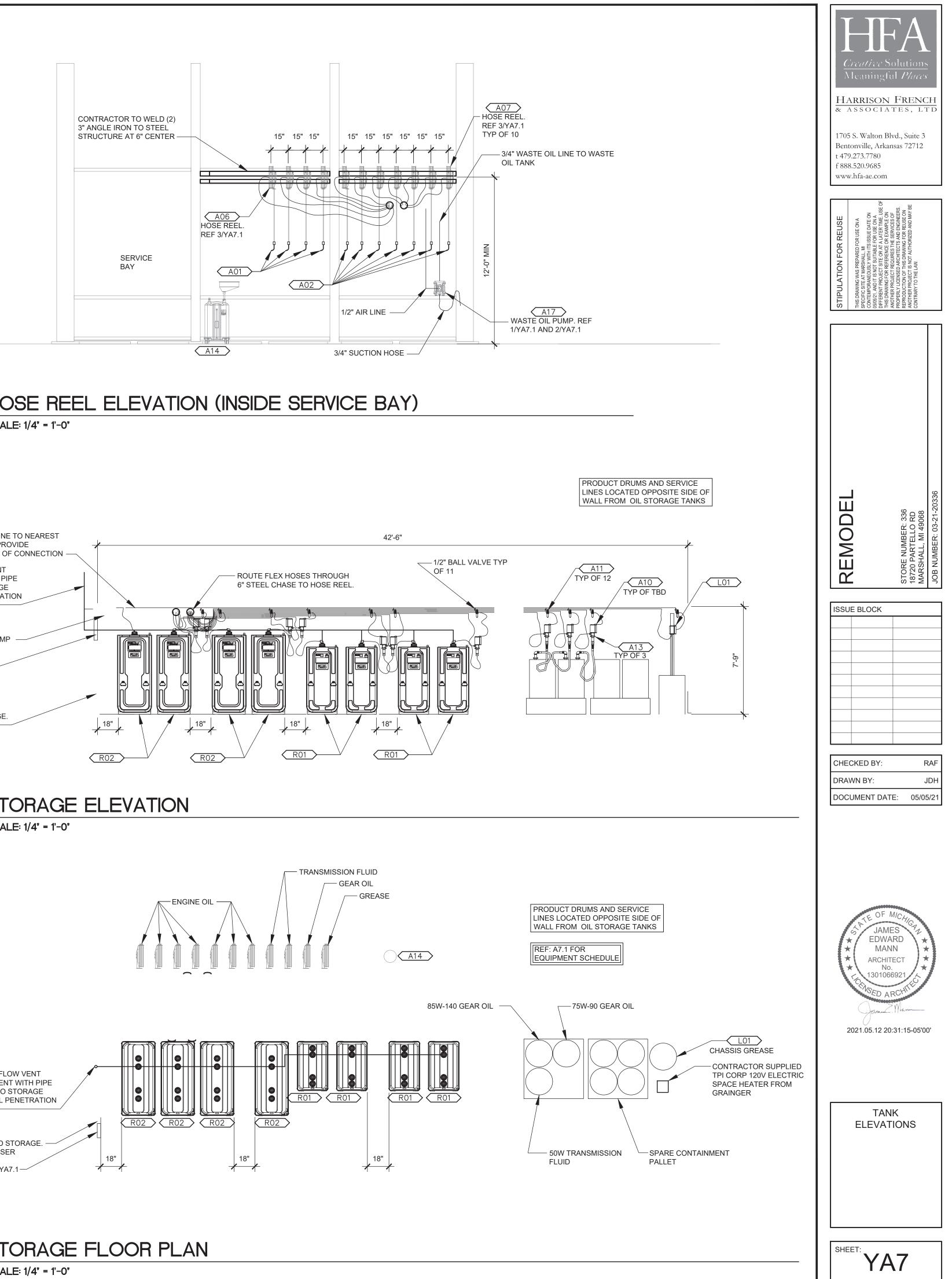


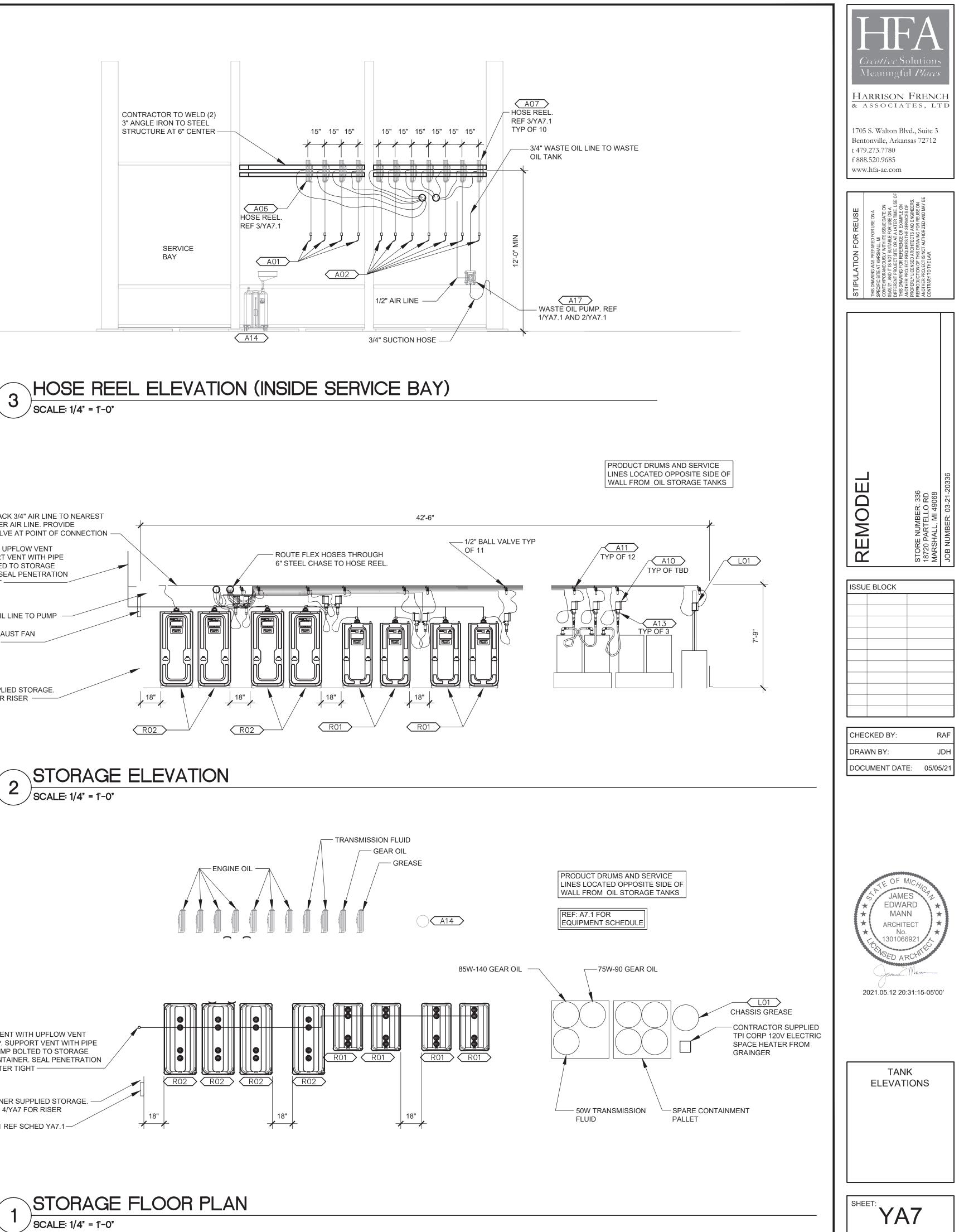
4 SCALE: 3' = 1'-0'	SCHEDULED FINISH WINDOW JAMB SCALE: 3" = 1'-0"	2 WINDOW H SCALE: 3" = 1'-0"
ALUMINUM FRAME & WINDOWS AS SCHEDULED HOLD FLUSH TO TIRE STORAGE SOLID SURFACE SILL SCHEDULED FINISH SCHEDULED SUBSTRATE 2x NAILER	SCHEDULED ALUMINUM FRAME & WINDOWS FINISH AS SCHEDULED HOLD FLUSH TO TIRE STORAGE NEW METAL STUD 2x NAILER SCHEDULED SUBSTRATE	NEW METAL STUD SCHEDULED FINISH SCHEDULED SUBSTRATE

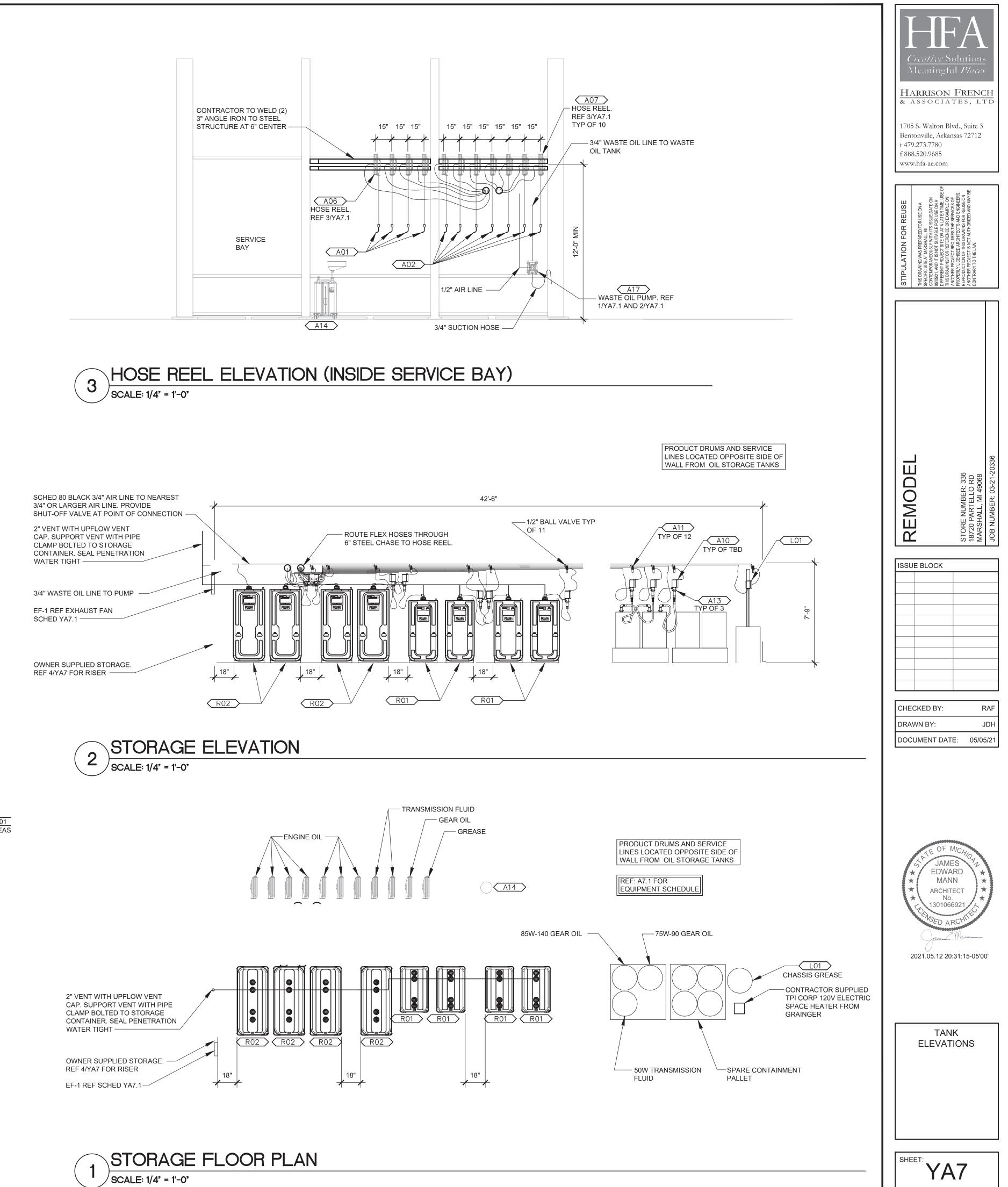
		WI	NDOW SCHEDULE REF: 10/YA6 FOR WINDOW TYPE		HFA
	MARK c	SIZE 3'-0"X3'-8"	REMARKS SINGLE HUNG WITH VERTICAL SLIDERS, ALUMINUM FRAME - CO BRONZE, THERMALLY BROKEN, PROVIDED BY AND INSTALLED B	LOR Y G.C.	Creative Solutions Meaningful Places HARRISON FRENCH & ASSOCIATES, LTD
					1705 S. Walton Blvd., Suite 3 Bentonville, Arkansas 72712 t 479.273.7780 f 888.520.9685 www.hfa-ae.com
					STIPULATION FOR REUSE THIS DRAWING WAS PREPARED FOR USE ON A SPECIFIC SITE AT MARSHALL, MI CONTEMPORANEOUSLY WITH RE ISSUE DATE ON GOISD21, AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT FROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT SITE OR AT A LATER TIME. USE OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.
					RENDDEL STORE NUMBER: 336 18720 PARTELLO RD MARSHALL, MI 49068 JOB NUMBER: 03-21-20336
					3 09/20/22 CCD 1 4 11/04/22 CCD 2
					CHECKED BY:RAFDRAWN BY:JDHDOCUMENT DATE:05/05/21
					→ LE OF MICHIC JAMES EDWARD MANN ARCHITECT No. 1301066921 SED ARCHITEC 2022.11.04 07:10:59-05'00'
SCHEDULED FINISH SCHEDULED SUBSTRATE 2X NAILER ALUMINUM FRAME & WINDOWS AS SCHEDULED HOLD FLUSH TO TIRE STORAGE		3'-6" 3'-8"	3'-0" 2 YA61 1" INSULATED CLEAR GLASS NO INSECT SCREEN 3 YA61 YA61 SHELF ON TIRE STORAGE SIDE ONLY FLOOR SLAB		3 WINDOW SCHEDULE, ELEVATIONS & DETAILS
/ HEAD			WINDOW ELEVATIONS SCALE: 1/4" = 1'-0"		SHEET: YA6.1











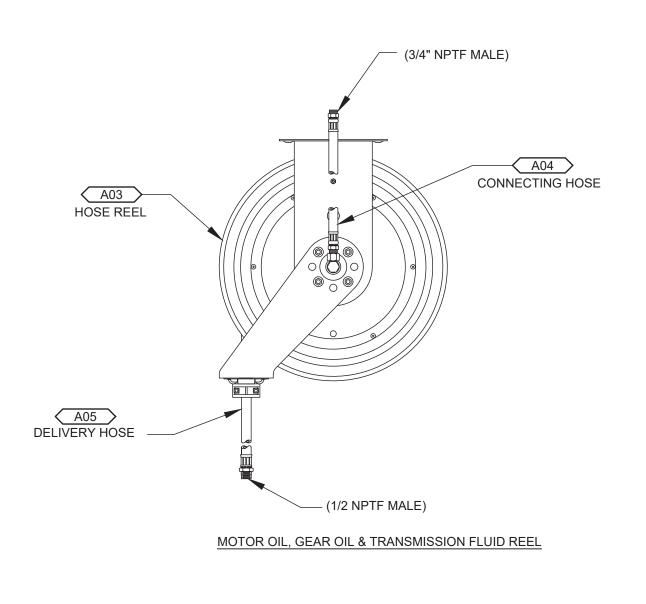
ITEM NO.	QTY.	DESCRIPTION	MODEL NO.	PART NO.	MANUFACTURER	PROVIDED BY	INSTALLED BY
A01	4	PRESET BATCH METER (PINTS)	XXXXXX	3640-2	DETERMINED BY LOVES	OWNER	GC
A02	7	ELECTRONIC METERED CONTROL VALVE (GALLONS)	XXXXXX	3671	DETERMINED BY LOVES	OWNER	GC
A03	10	HEAVY-DUTY HOSE REEL	7335-B	8078-D	DETERMINED 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

A06 HOSE REEL

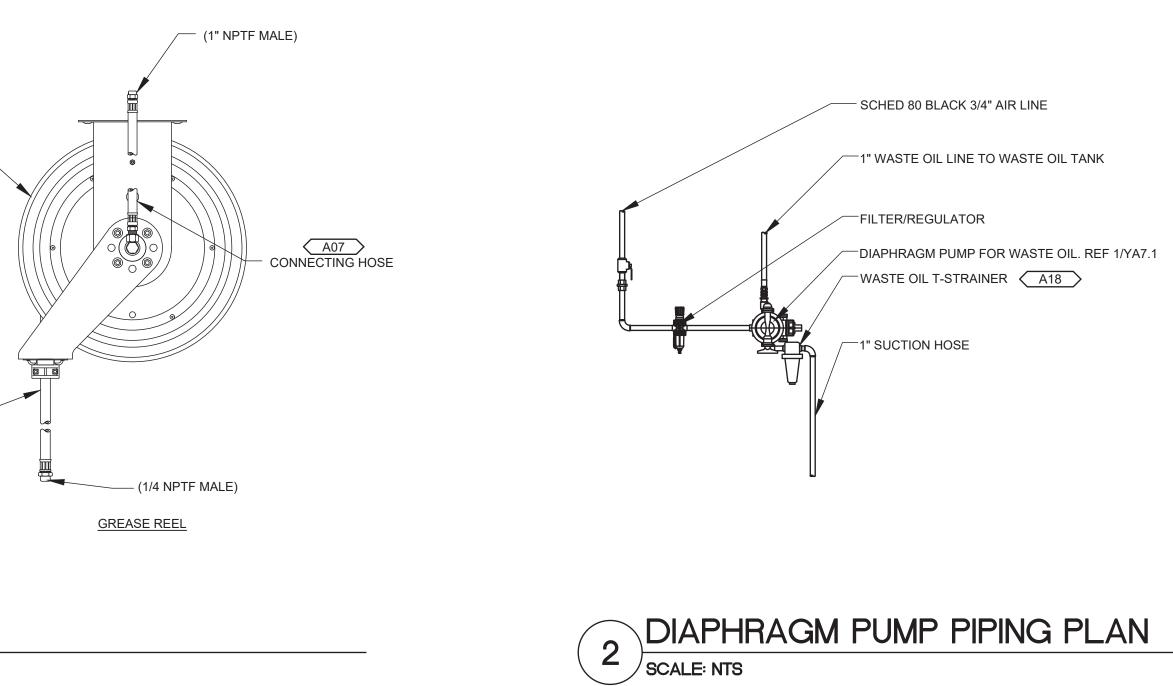
A08 DELIVERY HOSE

4 EQUIPMENT SCHEDULE SCALE: NTS









	E	KHAUST FAN	SCHE	DULE			
MARK	AREA SERVED	MANUFACTURER MODEL # MOUNTING	CFM ESP	V/PH/HZ HP OR W RPM	ACCESSORIES NOTES		HFA
EF-1	EF-1 STORAGE CONTINENTAL 250 115/1/60 AMP 200-2-11 0.125" 74 W BD,DS WALL 2665 1,2,3						<u>Creative</u> Solutions Weaningful <i>Places</i>
ACCESSOF BD DS	RIES: BACKDRAFT DAMF DISCONNECT SWI ⁻						ARRISON FRENCH Associates, ltd
NOTES: 1.	MANUFACTURER AND MODEL NUMBER LISTED ABOVE REPRESENT A STANDARD. APPROVED MANUFACTURERS ARE COOK, CONTINENTAL, CARNES, ACME, PENN, GREENHECK, AND BROAN.						05 S. Walton Blvd., Suite 3 htonville, Arkansas 72712 79.273.7780 88.520.9685 rw.hfa-ae.com
2. 3.		HALL BE MOUNTED AT 66					w.ma-ac.com
						STIPULATION FOR REUSE	THIS DRAWING WAS PREPARED FOR USE ON A SPECIFIC SITE AT MASSHALL, MI SONTEMPORANEOUSLY WITH ITS ISSUE DATE ON GG05/21, AND IT IS NOT SUITABLE FOR USE ON DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF ANOTHER PROJECT REQUIRES THE SERVICES OF ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.

REMODEL STORE NUMBER: 336 18720 PARTELLO RD MARSHALL, MI 49068 JOB NUMBER: 03-21-20:

ISSUE BLOCK						
CHECKED BY:	HECKED BY: RAF					
DRAWN BY:	RAWN BY: JDH					
DOCUMENT DATE: 05/05/21						



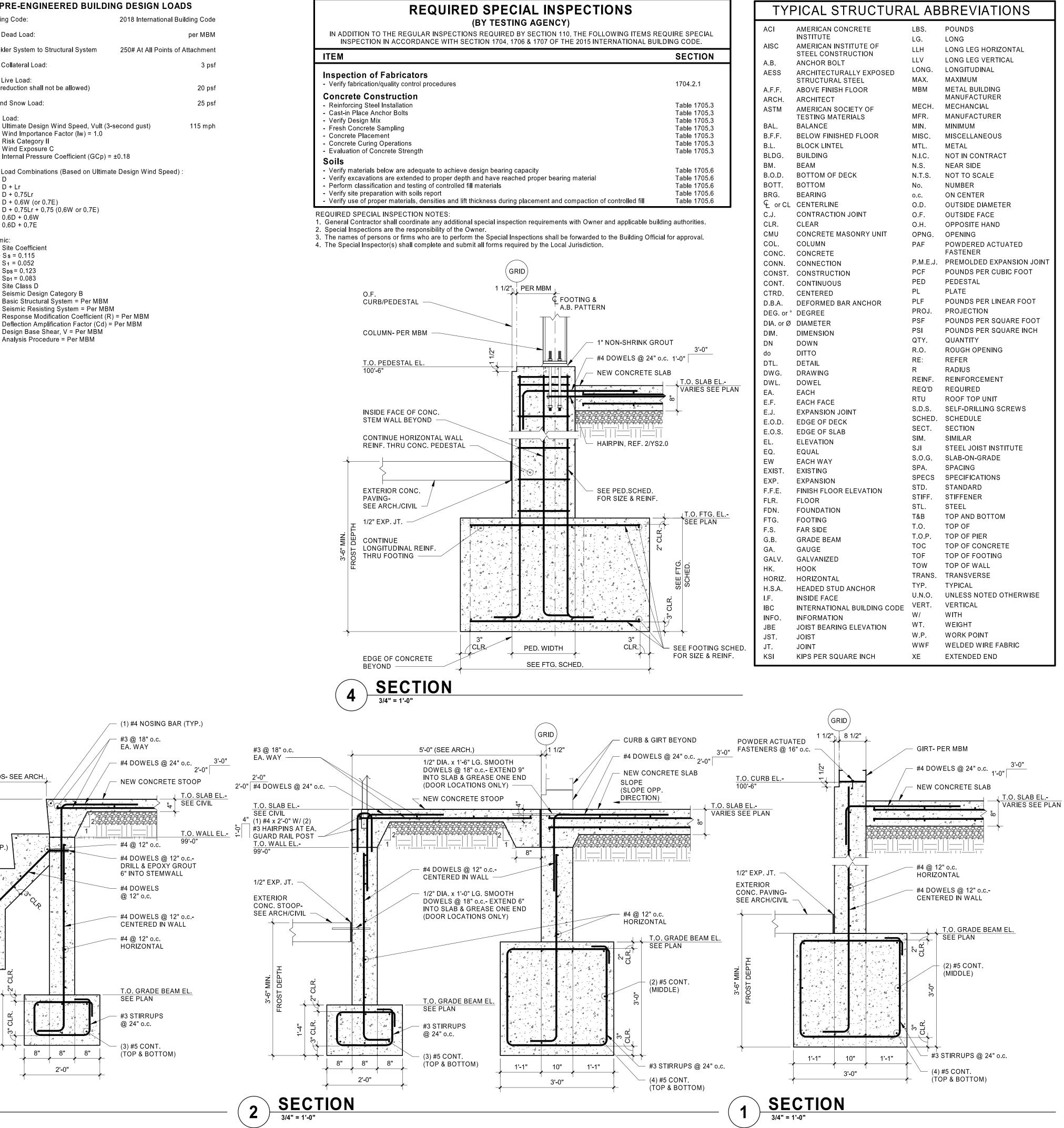


USED OIL DISCHARGE AIR DISCHARGE
 NOTE: DIRECT DISCHARGE
 AWAY FROM BAY AREA AIR INLET USED OIL INLET





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					and Detailing	g of Concrete		
Implicit in the state of				Maximum	Slump (in)	Air Entrainment		
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<text></text>			shall meet ASTM A	615 with Supplement	ary Requirem	nents (S1), Grade 60.		
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Bit A - Stream is a single a cancer will be plot in the large box plot in the large box plot. It is a single a cancer will be plot in the large box	All bars are to be supported in	forms and spaced with w	ire bar supports per .	ACI "Manual of Stand				
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<text><text><text><text><text><list-item></list-item></text></text></text></text></text>	All slots, sleeves and other em	bedded items such as str	rap-tie holdowns sha	II be set before concr	ete is placed.	. See Architectural,		
<text><text><text><text><text></text></text></text></text></text>	Electrical conduit to be placed	below slab shall be locate	ed by electrician prior			nts. Slab shall be		
<text></text>						TM C618 and shall not		
<text></text>	exceed 15% of the total cemer	nt volume.					in	
<text></text>	similar sections or areas.							
<text></text>	Concrete coverage of reinforce				se on the dra	awings:		
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Implementation Impl	Do not add water to concrete d	luring delivery, at Project	Site, or during place	ment, unless approve	d by the Eng	ineer of Record.		
Image: State in a space in the space in	-		lengths:					
¹ / ₂ × 1/2 × 1/2 Automate of the state state of the state of the state of the state of the s	Bar Size Lap	Splice Hook						
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sole or new structural illundership per Sole Report Private Number 04-0-25500 dated February 28th, 2005 by Terracon, Bottom of footings shall bear at or before maintained bearing of points 42 beak lower addication for the Design, Fabrication and February 18th, 2005 by Terracon, Bottom of Footings shall bear at the balance many 28th, 2005 by Terracon, Bottom of Footings shall bear at the balance maintained bearing of balance 2006 were addicated by the Design, Fabrication and February 18th, 2005 by Terracon, Bottom of ASTM A50. Structural steel abali conform to ASTM A500, Grade B with a yield strength of 46 kst. Wishapse shall conform to ASTM A922 with a yield strength of 50 ksi. All other structural steel abali conform to ASTM A92. All and the requirements of ASTM A53, Grade A, heavy hax and anchor da shall conform to ASTM F1545, Grade 36. Nuts for anchor reds shall conform to ASTM A92. With grade and the offer a shall conform to ASTM A92. With grade and the fabrication and the H185 Grade 36. Nuts for anchor reds shall conform to ASTM A93. Grade A, heavy hax and anchor da vasher shall conform to ASTM F1545, Grade 36. Nuts for anchor reds shall conform to ASTM A92. Withing electrodes shall be E-70 series. Waking shall be confide weeker. All boots shall be differed to a snug-sight confiden. A snug tight confiden is defined as the fightness atlaned by a few impacts of an impact whench all conform to the Specifications of the American Weeking Society. Weeking all construction? LICHT AUCOST STEEL CENERAL NOTES All faming members shall be of the tipe, size, gauge and spacing as shown on the drawings. All random shows and lower shall be offer the sale shows (State A) and spacing as shown on the drawings. All random shows and hadens shall be offer the sale shows (State A) and spacing as shown on the drawings. All random shows and hadens shall be offer the sale shows (State A) and spacing as shown on the drawings. All random shows and hadens shall be offer the sale shall be structure for all and wells and furndows. (N.	#8 4	'-0" 1'-4"						
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and Erection of Structural Steel for Buildings. Helew Structural Section (HSS) shall contorm to ASTM AS00, Grade B with a yield strength of 50 ksi. All other structural steel shall contorm to the requirements of ASTM AS0. All anchor rodes shall contorm to ASTM 4992 with a yield strength of 50 ksi. All other structural steel shall contorm to ASTM AS0. All anchor rodes shall contorm to ASTM 4953, Grade 36. Nuts for anchor rodes shall contorm to ASTM AS03, Grade A, heavy hex and anchor rod vashers shall contorm to FS F-W-92. All welding shall contorm to the Specifications of the American Welding Society. Welding electrodes shall be E-70 series. Welding shall be done by a certified welder. All bits shall be tightened to a srug-tight condition. A sing tight condition is defined as the tightenes attained by a few impacts of an impact werend on the full efford of an american welds in socrafance with ASC. "Detailing for Sieel Construction". Light Beford End End End End End End End End End En								
W-Shapes shall conform to ASTM A992 with a yield strangth of 50 ksl, All other structural steel shall conform to the requirements of ASTM A36. All enchor rods shall conform to ASTM F1564, Grade 36, Nuts for anchor rods shall conform to ASTM A563, Grade A, heavy hex and anchor rod seahers shall conform to FS P-W-92. Willing advertised to a srug-tight condition. A singlight condition is defined as the tightness attained by a few impacts of an impact wirench or the full effort of an ancign an ordinary spud wrench. All connected elements must be brought into snug contact. Bearing ands of all columns shall be steed in accordance with AISC "Detailing for Steel Construction". LICHT GAUCE STEEL GENERAL NOTES All training members shall be of the type, size, gauge and spacing as shown on the drawings. All training members shall be of the type, size, gauge and spacing as shown on the drawings. All training members shall be of the type, size, gauge and spacing as shown on the drawings. All training members shall be of the type, size, gauge and spacing as shown on the drawings. All training members shall be of the type, size, gauge and spacing as shown on the drawings. All training members shall have a 1 5/8* tange with 1/2* return lip, typical. Runner track gauge to match stud gauge. Exterior studs and runner track shall have a 1 5/8* tange with 1/2* return lip, typical. Runner track gauge to match stud or utility access Reterior studs shall have and framing members shall bo digreg (g) 4-0° o.c., vertically for the full height of the weall, Bridging can be removed for utility access			hall conform to the r	equirements of the Al	SC Specifica	ition for the Design, Fabr	rication	
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No openings shall be cut in structural members unless shown on the drawings. Anchor rod holes in base plates shall be sized in accordance with AISC "Detailing for Steel Construction". LIGHT GAUGE STEEL GENERAL NOTES All structural studs and headers shall be of the type, size, gauge and spacing as shown on the drawings. All framing members shall be formed from steel, corresponding to the requirements of ASTM A653. All steel framing members shall have a minimum yield strength of 33 ksi. Exterior studs and headers shall have a 15/8" flange with 1/2" return lip, typical. Runner track gauge to match stud gauge. Exterior studs and numer track shall be 18 ga. thickness (U.N.O.). Provide bracing to structure for all stud walls and fur-downs. Powder actuated fasteners for attachment of bottom runner track shall have a 0.145" minimum shank diameter and a 1 1/4" minimum concrete embedment. Space fasteners at 12" o.c All tetrior studs shall have horizontal bridging @ 4-0" o.c., vertically for the full height of the wall. Bridging can be removed for utility access after sheathing is attached along one side of wall. Minimum thickness values of framing specified in gage values on drawings are as follows: Minimum thickness values of framing specified in gage values on drawings are as follows: Minimum thickness values of framing specified in gage values on drawings are as follows: Minimum thickness values of framing specified in gage values on drawings are as follows: Minimum thickness values of framing specified in gage values on drawings are as follows: Minimum thickness represents 95% of the thickness and is the minimum acceptable thickness delivered to the job site based on							mpact	
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All framing members shall be formed from steel, corresponding to the requirements of ASTM A653. All steel framing members shall have a minimum yield strength of 33 ksi. Exterior studs and headers shall have a 1 5/8" flange with 1/2" return lip, typical. Runner track gauge to match stud gauge. Exterior studs and nunner track shall be 18 ga. thickness (U.N.O.). Provide bracing to structure for all stud walls and furr-downs. Powder actuated fasteners for attachment of bottom runner track shall have a 0.145" minimum shank diameter and a 1 1/4" minimum concrete embedment. Space fasteners at 12" o.c. All exterior studs shall have horizontal bridging @ 4-0" o.c. vertically for the full height of the wall. Bridging can be removed for utility access after sheathing is attached along one side of wall. Minimum thickness values of framing specified in gage values on drawings are as follows: $\frac{MINIMUM DESIGN}{THICKNESS (MILS)} \frac{THICKNESS (IN.)}{18 DESIGN} (IN.) INSIDE CONNER GAGE NO. 18 0.0188 0.0843 25 27 0.0293 0.0786 22 27 0.0293 0.0786 22 27 0.0293 0.0786 22 27 0.0293 0.0786 22 27 0.0293 0.0786 22 27 0.0293 0.0786 22 27 0.0293 0.0786 22 27 0.0293 0.0786 22 20 -DRYWALL 33 0.0346 0.0764 20-STRUCTURAL 33 0.0346 0.0712 18 54 0.0566 0.0849 16 68 0.0713 0.10269 114 37 0.1017 0.1525 12 NOTE: Minimum Thickness represents 95% of the thickness and is the minimum acceptable thickness delivered to the job site based on$					awinas.			
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	43 54 68	0.0713	0.1069	14				



;		PICAL STRUCTUR	AL AE	BREVIATIONS	HFA
	ACI	AMERICAN CONCRETE	LBS.	POUNDS	$\Gamma \Pi \Lambda$
ITEMS REQUIRE SPECIAL DNAL BUILDING CODE.	AISC	INSTITUTE AMERICAN INSTITUTE OF	LG. LLH	LONG LONG LEG HORIZONTAL	Creative Solutions
SECTION	A.B.	STEEL CONSTRUCTION ANCHOR BOLT	LLH LLV	LONG LEG HORIZONTAL	Meaningful <i>Places</i>
	AESS	ARCHITECTURALLY EXPOSED	LONG. MAX.	LONGITUDINAL MAXIMUM	HARRISON FRENCH
1704.2.1	A.F.F.	STRUCTURAL STEEL ABOVE FINISH FLOOR	MAX. MBM	METAL BUILDING	& ASSOCIATES, LTD
Table 1705.3	ARCH. ASTM	ARCHITECT AMERICAN SOCIETY OF	MECH.	MANUFACTURER MECHANCIAL	1705 S. Walton Blvd., Suite 3
Table 1705.3 Table 1705.3	BAL.	TESTING MATERIALS BALANCE	MFR. MIN.	MANUFACTURER MINIMUM	Bentonville, Arkansas 72712
Table 1705.3 Table 1705.3	BAL. B.F.F.	BALANCE BELOW FINISHED FLOOR	MIN. MISC.	MINIMUM MISCELLANEOUS	t 479.273.7780 f 888.520.9685
Table 1705.3 Table 1705.3	B.L. BLDG.	BLOCK LINTEL BUILDING	MTL. N.I.C.	METAL NOT IN CONTRACT	www.hfa-ae.com
Table 1705.6	BM.	BEAM	N.S.	NEAR SIDE	
Table 1705.6 Table 1705.6 Table 1705.6	B.O.D. BOTT.	BOTTOM OF DECK BOTTOM	N.T.S. No.	NOT TO SCALE NUMBER	
Table 1705.6 Table 1705.6 ed fill Table 1705.6	BRG.	BEARING	0.C.	ON CENTER	REL REL REL REL REL REL REL REL REL REL
	全 or CL C.J.	CENTERLINE CONTRACTION JOINT	0.D. 0.F.	OUTSIDE DIAMETER OUTSIDE FACE	FOR FOR FOR FOR FOR FOR FOR FOR FOR FOR
cable building authorities.	CLR.	CLEAR	О.Н.	OPPOSITE HAND	TION C 251 C 251 C 251 C 252 C 12 C 252 C
ding Official for approval.	CMU COL.	CONCRETE MASONRY UNIT COLUMN	OPNG. PAF	OPENING POWDERED ACTUATED	ULA ⁻ ULA ⁻ SPEC ⁻ C APCC ⁻ C APCC ⁻ C APC ⁻ C C C C C C C C C C C C C C C C C C C
	CONC. CONN.	CONCRETE CONNECTION	P.M.E.J.	FASTENER	S TIP S TIP CON A 5 CON A 10 C TU C 7 C C A 0 C TU C 7 C C A 0 C TU C 7 C C A 10 C C C C C C C C C C C C C C C C C C C
	CONN. CONST.	CONNECTION	PCF	POUNDS PER CUBIC FOOT	
	CONT. CTRD.	CONTINUOUS CENTERED	PED PL	PEDESTAL PLATE	
	D.B.A.	DEFORMED BAR ANCHOR	PLF	POUNDS PER LINEAR FOOT	
		DEGREE DIAMETER	PROJ. PSF	PROJECTION POUNDS PER SQUARE FOOT	
	DIM.	DIMENSION	PSI	POUNDS PER SQUARE INCH	
RINK GROUT	DN do	DOWN DITTO	QTY. R.O.	QUANTITY ROUGH OPENING	
S @ 24" o.c. 1'-0"	DTL.	DETAIL	RE: R	REFER RADIUS	
CRETE SLAB	DWG. DWL.	DRAWING DOWEL	REINF.	REINFORCEMENT	
	EA.	EACH	REQ'D RTU	REQUIRED ROOF TOP UNIT	
	E.F. E.J.	EACH FACE EXPANSION JOINT	S.D.S.	SELF-DRILLING SCREWS	
	E.O.D.	EDGE OF DECK	SCHED. SECT.	SCHEDULE SECTION	38 33 0 38
<u></u> REF. 2/YS2.0	E.O.S. EL.	EDGE OF SLAB ELEVATION	SIM.	SIMILAR	REMODEL STORE NUMBER: 336 18720 PARTELLO RD MARSHALL, MI 49063 JOB NUMBER: 03-21-20336
	EQ. EW	EQUAL EACH WAY	SJI S.O.G.	STEEL JOIST INSTITUTE SLAB-ON-GRADE	
	EXIST.	EXISTING	SPA.	SPACING SPECIFICATIONS	EMODI CORE NUMBE 720 PARTEL ARSHALL, MI B NUMBER: 03-
SCHED.	EXP. F.F.E.	EXPANSION FINISH FLOOR ELEVATION	SPECS STD.	SPECIFICATIONS STANDARD	EMO DRE NUI 20 PAR
& REINF.	FLR.	FLOOR	STIFF. STL.	STIFFENER STEEL	OR 720 ARS BNU
T.O. FTG. EL	FDN. FTG.	FOUNDATION FOOTING	T&B	TOP AND BOTTOM	STC STC MAI
	F.S.	FAR SIDE	Т.О. Т.О.Р.	TOP OF TOP OF PIER	
	G.B. GA.	GRADE BEAM GAUGE	тос	TOP OF CONCRETE	ISSUE BLOCK 1 07/09/21 ADD 1
ED.	GALV.	GALVANIZED	TOF TOW	TOP OF FOOTING TOP OF WALL	3 09/20/22 CCD 1
SCHED SEE FTG	HK. HORIZ.	HOOK HORIZONTAL	TRANS.	TRANSVERSE	
	H.S.A. I.F.	HEADED STUD ANCHOR INSIDE FACE	TYP. U.N.O.	TYPICAL UNLESS NOTED OTHERWISE	
	IBC	INTERNATIONAL BUILDING CODE		VERTICAL WITH	
	INFO. JBE	INFORMATION JOIST BEARING ELEVATION	WT.	WEIGHT	
	JST.	JOIST	W.P. WWF	WORK POINT WELDED WIRE FABRIC	
.R. SEE FOOTING SCHE FOR SIZE & REINF.	ED. JT. KSI	JOINT KIPS PER SQUARE INCH	XE	EXTENDED END	
/	L				
					CHECKED BY: LST
	_				DRAWN BY: JWK
		GRID			DOCUMENT DATE: 05/05/21
		1 1/2" 8 1/2"			
	POWDER ACTUA FASTENERS @ 1	TED Pr r	🦟 GIRT- F	PER MBM	
DOWELS @ 24" o.c. 2'-0"	Č				
	T.O. CURB EL			VELS @ 24" o.c. 3'-0" 1'-0"	
OPE OPP. RECTION)	100'-6"		/ NEW C	ONCRETE SLAB	
	<u>AB EL</u> SEE PLAN		4	VARIES SEE PLA	N
VARIES			LOODAA		
	1/2" EXP. JT. —	× ×			
I	EXTERIOR				ATE OF MICHIGA
(CONC. PAVING-		#4 DOV	VELS @ 12" o.c	

LUNGSHEN TSAO ENGINEER No. 59302 1 ganp 2022.09 20 12:29:04-05'00' GENERAL NOTES & TYPICAL

DETAILS

3

YS1.0

SHEET

		= 3,000 P	SI			TC	= 4,000 P	SI	
BAR SIZE	LAP CLASS	SPL TOP	LICE OTHER	HOOK LENGTH	BAR SIZE	LAP CLASS	SPI TOP	LICE OTHER	HOOK LENGTH
#3	AB	20" 27"	16" 21"	8"	#3	AB	18" 23"	14" 18"	7"
#4	AB	28" 36"	22" 28"	11"	#4	AB	25" 32"	19" 25"	- 9"
#5	A	36"	27"	13"	#5	A	31"	24"	12"
#6	B A	46" 43"	36" 33"	16"	#6	B A	40" 37"	31" 28"	14"
	B	56" 62"	43" 48"	10	#0	B	48" 54"	37" 42"	
#7	В	81"	62"	18"	#7	В	70"	54"	16"
EMBEDDE 3. CLASS A I LAPPED A 4. LAP AND I TABLE FC 5. CLASS A I 6. CLASS B I 7. HOOK LEI HOOK. MU DEGREE I 8. TOP BARS 9. MULTIPLY OF ONE B	D AT THE SAME L AP LENGTHS APP T A LOCATION OF EMBEDMENT LENG R "CONCRETE CC AP AND EMBEDM AP LENGTHS APP JUTIPLY LENGTHS HOOKS COVER ON S ARE HORIZONTA TAP AND EMBED AR DIAMETER OR	OCATION, PLY WHEN I MINIMUM S GTHS SHOW VER". THE ENT LENGT PLY WHEN A IE STRAIGH GIVEN BY N BAR EXTE L REINFOR MENT LENC LESS.	THE BAR CI BAR LAPS A STRESS IN WN APPLY Y SE COVER TH HAVE TH ALL BARS A IT LINE DIS 0.7 FOR HC ENSION BEY CEMENT P GTHS BY 2.0	WHEN BAR MINIMUM (VALUES CONFORM W	E CENTER TO CI LAP HALF THE B CONCRETE COV ITH THE CURRE CATION OF MAX ER NORMAL TO S THAN 2 INCHE E THAN 12 INCHE EAR SPACING OI	ENTER BAR SPACI ARS AT THE SAME ER OVER BARS CO INT EDITION OF AC IMUM STRESS IN T IMUM STRESS IN T THE HOOK NOT L S. IES OF CONCRETE F TWO BAR DIAME	NG MINUS E LOCATIO DNFORMS I 318. THE BARS. THE BARS. THE BAR TO ESS THAN I IS CAST B TERS OR L	ONE BAR E N OR WHE WITH VALU 2 THE OUT 2 1/2 INCHE BELOW THE LESS OR CO	DIAMETER. N BARS ARE JES GIVEN IN THE SIDE END OF THE ES AND FOR 90 REINFORCEMENT.
					ECTION NOTES				
				PTER 17 OF THE BUILD	DING CODE, THE				
RELIEVE THE	CONTRACTOR OF	ANY RESP	ONSIBILITY	TO PERFORM WORK	IN ACCORDANC				
ER IBC 2015 SE PECIAL INSPEC ONSTRUCTION	ECTION 1705 AN CTOR SHALL BE NOR OPERATIC	ND ARE IN E A QUALI ON REQUI	I ADDITIO IFIED PER RING SPE	OR THIS FACILITY N TO THOSE REQI RSON(S) WHO SHA ECIAL INSPECTION	UIRED BY IBC LL DEMONST	2015 SECTION RATE COMPETI	110. ENCE, FC	OR INSPE	CTION OF THE TY
PECIAL INSPEC ER IBC 2015 SE PECIAL INSPEC ONSTRUCTION PECIAL INSPEC ISTRIBUTED O PPROVED CON TTENTION OF UBMIT A FINAL ND/OR CORRE	ECTION 1705 AN CTOR SHALL BE I OR OPERATIC CTOR SHALL FL N A REGULAR F ISTRUCTION D THE PROJECT I REPORT DOCI CTIONS FOR A	ND ARE IN E A QUALI DN REQUI JRNISH IN BASIS. RE OCUMEN MANAGEF JMENTIN	I ADDITIO IFIED PER RING SPE SPECTIC PORTS S TS, OR IN R AND EN G ALL SPI	N TO THOSE REQU	UIRED BY IBC LL DEMONST HE PROJECT HAT WORK INS ANCIES. DISCI RD. IS FOR EACH	2015 SECTION RATE COMPETI MANAGER, ANE SPECTED WAS REPANCIES SH, TYPE OF CONS	110. ENCE, FC TO THE PERFOR ALL BE BI	DR INSPE ENGINEE MED IN C ROUGHT DN, INCLU	CTION OF THE TY R OF RECORD, ONFORMANCE W TO THE IMMEDIA ^T
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<u>sc</u>	ILS (IBC 2015 - TABLE 1705.6 - REQUIRED VERIFICATION AND INSPECTIONS)		
VE	RIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODIC DURING TASK LISTED
1.	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.		x
2.	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		x
3.	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.		Х
4.	VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	x	
5.	PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.		x

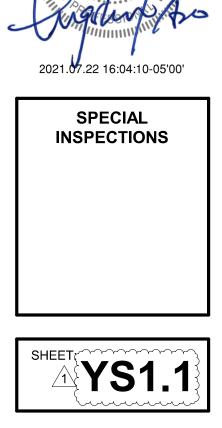
VE	RIFICATION AND INSPECTIONS	REFERENCE STANDARD	CONTINUOUS	PERIODIC
1.	REINFORCING STEEL	VERIFY PRIOR TO PLACING CONCRETE THAT REINFORCING IS OF SPECIFIED TYPE, GRADE AND SIZE; THAT IT IS FREE OF OIL, DIRT AND REUST; THAT IT IS LOCATED AND SPACED PROPERLY; THAT HOOKS, BENDS TIES, STIRRUPS AND SUPPLIMENTAL REINFORCEMENT ARE PLACED CORRECTLY, THAT LAP LENGTHS, STAGGER ANDOFFSETS ARE PROVIDED; AND THAT ALL MECHANICAL CONNECTIONS ARE INSTALLED PER THE MANUFACTURES INSTRUCTIONS AND/OR EVALUATION REPORT.		X
2.	CAST-IN BOLTS & EMBEDS	INSPECTION OF ANCHORS OR EMBEDS CAST IN CONCRETE IS REQUIRED WHEN ALLOWABLE LOADS HAVE BEEN INCREACED OR WHERE STRENGTH DESIGN IS USED.		x
3.	POST-INSTALLED ANCHORS OR DOWELS	ALL POST-INSTALLED ANCHORS/DOWELS SHALL BE SPECIALLY INSPECTED AS REQUIRED BY THE APPROVED ICC-ES REPORT.		x
4.	USE OF REQUIRED DESIGN MIX	VERIFY THAT ALL MIXES USED COMPLY WITH THE APPROVED CONSTRUCTION DOCUMENTS; ACI 318: CH. 4, 5.2-5.4; AND IBC 1904.3, 1932.2, 1913.3.	-	x
5.	CONCRETE SAMPLING FOR STRENGTH TESTS, SLUMP, AIR CONTENT, AND TEMPERATURE		X	
6.	CONCRETE PLACEMENT		x	
7.	CURING TEMPERATURE AND TECHNIQUES	VERIFY THAT THE AMBIENT TEMPERATURE FOR CONCRETE IS KEPT AT >50°F FOR AT LEAST 7 DAYS AFTER PLACEMENT. HIGH- EARLY-STRENGTH CONCRETE SHALL BE KEPT AT >50°F FOR AT LEAST 3 DAYSACCLERATED CURING METHODS MAY BE USED (SEE ACI 318: 5.11.3). THE ABMIENT TEMPERATURE FOR SHOTCRETE SHALL BE >40°F FOR THE SAME PERIOD OF TIME AS NOTED FOR CONCRETE. SHOTCRETE SHALL BE KEPT CONTINUOUSLY MOIST FOR AT LEAST 24 HOURS AFTER SHOTCRETING. ALL CONCRETE MATERIALS, REINFORCEMENT, FORMS, FILLERS, AND GROUND SHALL BE FREE FROM FROST. IN HOT WEATHER CONDITIONS ENSURE THAT APPROPRIATE MEASURES ARE TAKEN TO AVOID PLASTIC SHRINKAGE CRACKING AND THAT THE SPECIFIED WATER/CEMENT RATIO IS NOT EXCEEDED.		x
8.	FORMWORK	VERIFY THAT THE FORMS ARE PLACED PLUMB AND CONFORM TO THE SHAPES, LINES, AND DIMENSIONS OF THE MEMBERS AS REQUIRED BY THE APPROVED CONSTRUCTION DOCUMENTS.		x
9.	REINFORCEMENT COMPLYING WITH ASTM A 615 IN SPECIAL MOMENT FRAMES, SPECIAL STRUCTURAL WALLS AND COUPLING BEAMS	VERIFY THAT ASTM A 615 REINFORCING STEEL USED IN THESE AREAS COMPLIES WITH ACI318: 21.15.2 BY MEANS OF CERTIFIED MILL TEST REPORTS. IF THIS REINFORCING STEEL IS TO BE WELDED CHEMICAL TESTS SHALL BE PERFORMED IN ACCORDANCE WITH ACI 318: 3.5.2.	-	x

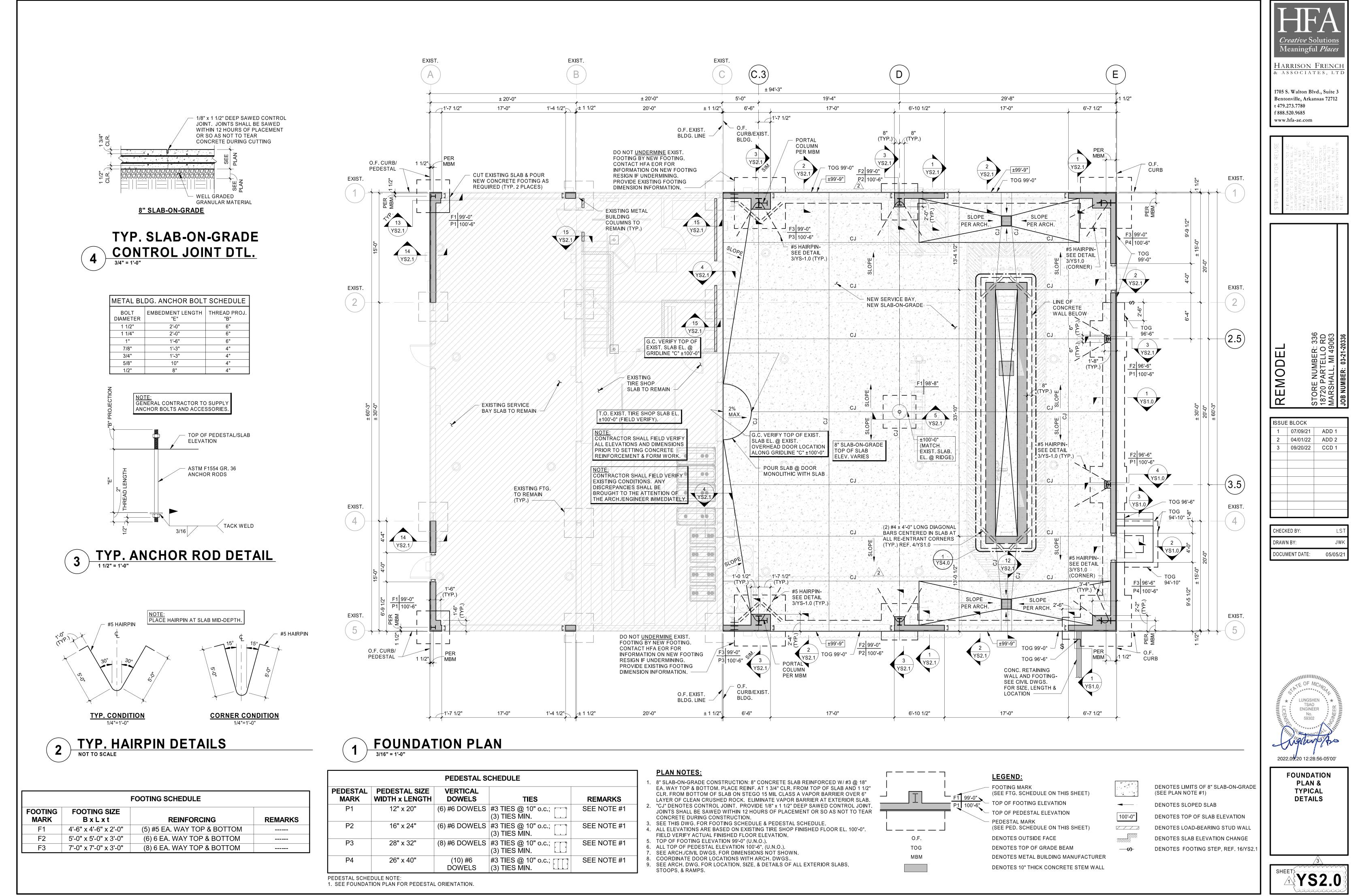
INSPECTION TASKS PRIOR TO WELDING	QC	QA
WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	Р	Р
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	Р	Р
MATERIAL IDENTIFICATION (TYPE/GRADE)	0	0
WELDER IDENTIFICATION SYSTEM	0	0
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) JOINT PREPARATION DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) CLEANLINESS (CONDITION OF STEEL SURFACES) TACKING (TACK WELD QUALITY AND LOCATION) BACKING TYPE AND FIT (IF APPLICABLE)	0	ο
CONFIGURATION AND FINISH OF ACCESS HOLES	0	0
FIT-UP OF FILLET WELDS DIMENSIONS (ALIGNMENT, GAPS AT ROOT) CLEANLINESS (CONDITION OF STEEL SURFACES) TACKING (TACK WELD QUALITY AND LOCATION)	0	0
CHECK WELDING EQUIPMENT	0	<u> </u>

AISC 360-10. TABLE N5.4-2 (INSPECTION TASKS DURING WELDING)		
INSPECTION TASKS DURING WELDING	QC	QA
USE OF QUALIFIED WELDERS	0	0
CONTROL AND HANDLING OF WELDING CONSUMABLES PACKAGING EXPOSURE CONTROL 	0	0
NO WELDING OVER CRACKED TACK WELDS	0	0
ENVIRONMENTAL CONDITIONS WIND SPEED WITHIN LIMITS PRECIPITATION AND TEMPERATURE 	ο	0
 WPS FOLLOWED SETTINGS ON WELDING EQUIPMENT TRAVEL SPEED SELECTED WELDING MATERIALS SHIELDING GAS TYPE/FLOW RATE PREHEAT APPLIED INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) PROPER POSITION (F, V, H, OH) 	0	0
WELDING TECHNIQUES INTERPASS AND FINAL CLEANING EACH PASS WITHIN PROFILE LIMITATIONS EACH PASS MEETS QUALITY REQUIREMENTS 	ο	ο

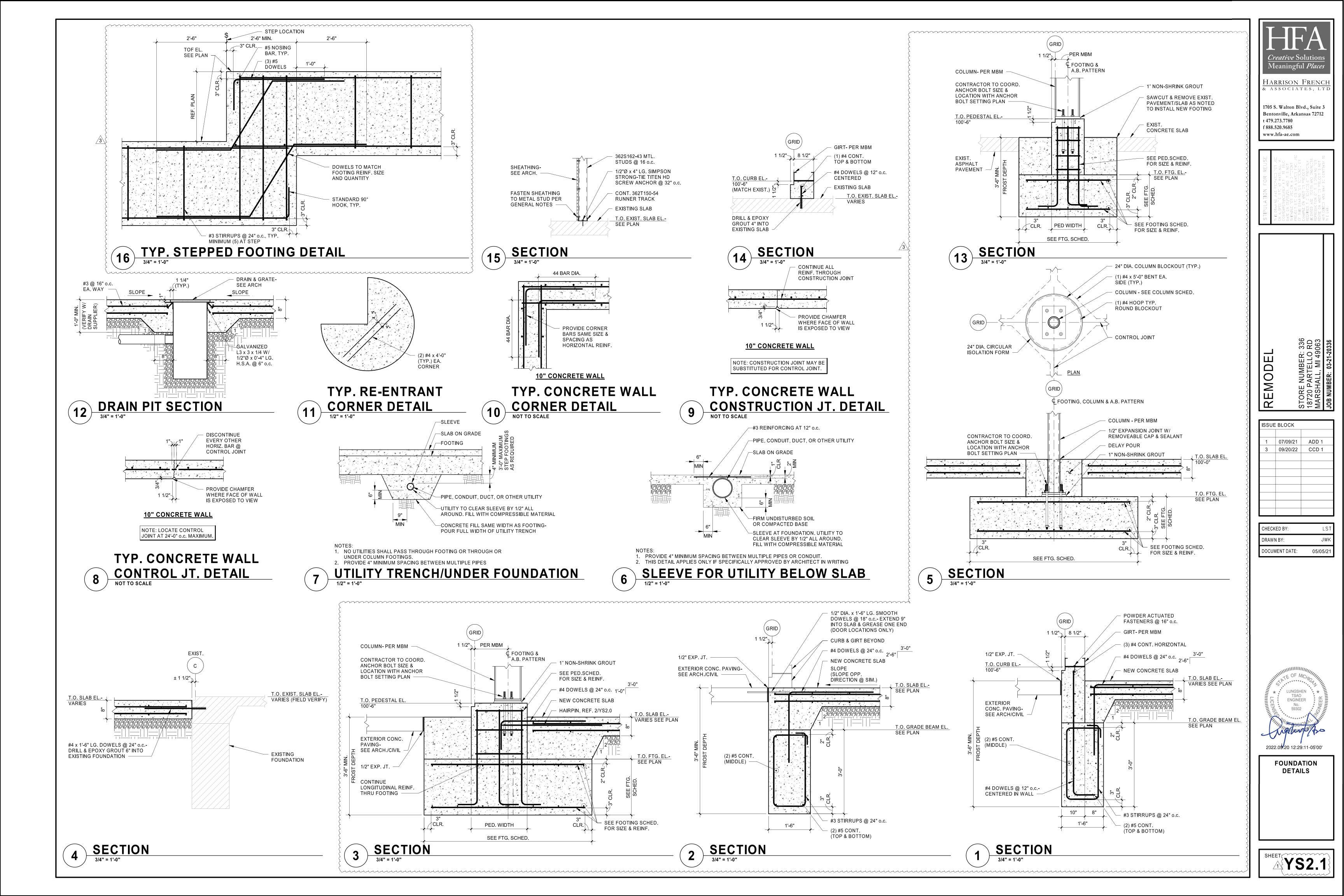
INSPECTION TASKS AFTER WELDING	QC	QA
WELDS CLEANED	0	0
SIZE, LENGTH AND LOCATION OF WELDS	P	P
WELDS MEET VISUAL ACCEPTANCE CRITERIA • CRACK PROHIBITION • WELD/BASE- METAL FUSION • CRATER CROSS SECTION • WELD PROFILES • WELD SIZE • UNDERCUT • POROSITY	Р	Р
ARC STRIKES	P	Р
K-AREA	Р	Р
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	Р	Р
REPAIR ACTIVITIES	Р	Р
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	Р	Р
AISC 360-10 TABLE N5.6-1 (INSPECTION TASKS PRIOR TO BOLTING)		
INSPECTION TASKS PRIOR TO BOLTING	QC	QA
MFRs CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	0	P
FASTENERS MARKED IN ACCORDANCE W/ ASTM REQUIREMENTS	0	р О
PASTENERS MARKED IN ACCORDANCE W/ ASTM REQUIREMENTS PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT	0	-
LENGTH IF THREADS ARE TO BE EXCLUDED FROM THE SHEAR PLANE)		0
PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	0	0
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	0	o
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	P	0
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	0	ο
AISC 360-10 TABLE N5.6-2 (INSPECTION TASKS DURING BOLTING)		
INSPECTION TASKS DURING BOLTING	QC	QA
FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	0	0
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	ο	ο
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	0	0
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	ο	о
AISC 360-10 TABLE N5.6-3 (INSPECTION TASKS AFTER BOLTING)		
INSPECTION TASKS AFTER BOLTING	QC	QA
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	Р	Р
<u>STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL</u> (IBC 2015 - TABLE 1705.2.2 - REQUIRED VERIFICATION AND INSPECTIONS)		
VERIFICATION AND INSPECTIONS - CONT'D	CONTINUOUS	PERIODIC
1. MATERIAL VERIFICATION OF COLD-FORMED STEEL DECK:		
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.		x
b. MANUFACTURER'S CERTIFIED TEST REPORTS.		x
2. INSPECTION OF WELDING:		x
a. COLD-FORMED STEEL DECK.		
1) FLOOR AND ROOF DECK WELDS.		
b. REINFORCING STEEL:		1
1) REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS OF CONCRETE AND SHEAR REINFORCEMENT	x	
2) SHEAR REINFORCEMENT.	x	
· · · · · · · · · · · · · · · · · · ·		x
3) OTHER REINFORUNG STEET		
3) OTHER REINFORCING STEEL. 3. INSPECTION OF ROOF DECK ATTACHMENTS		
·		x

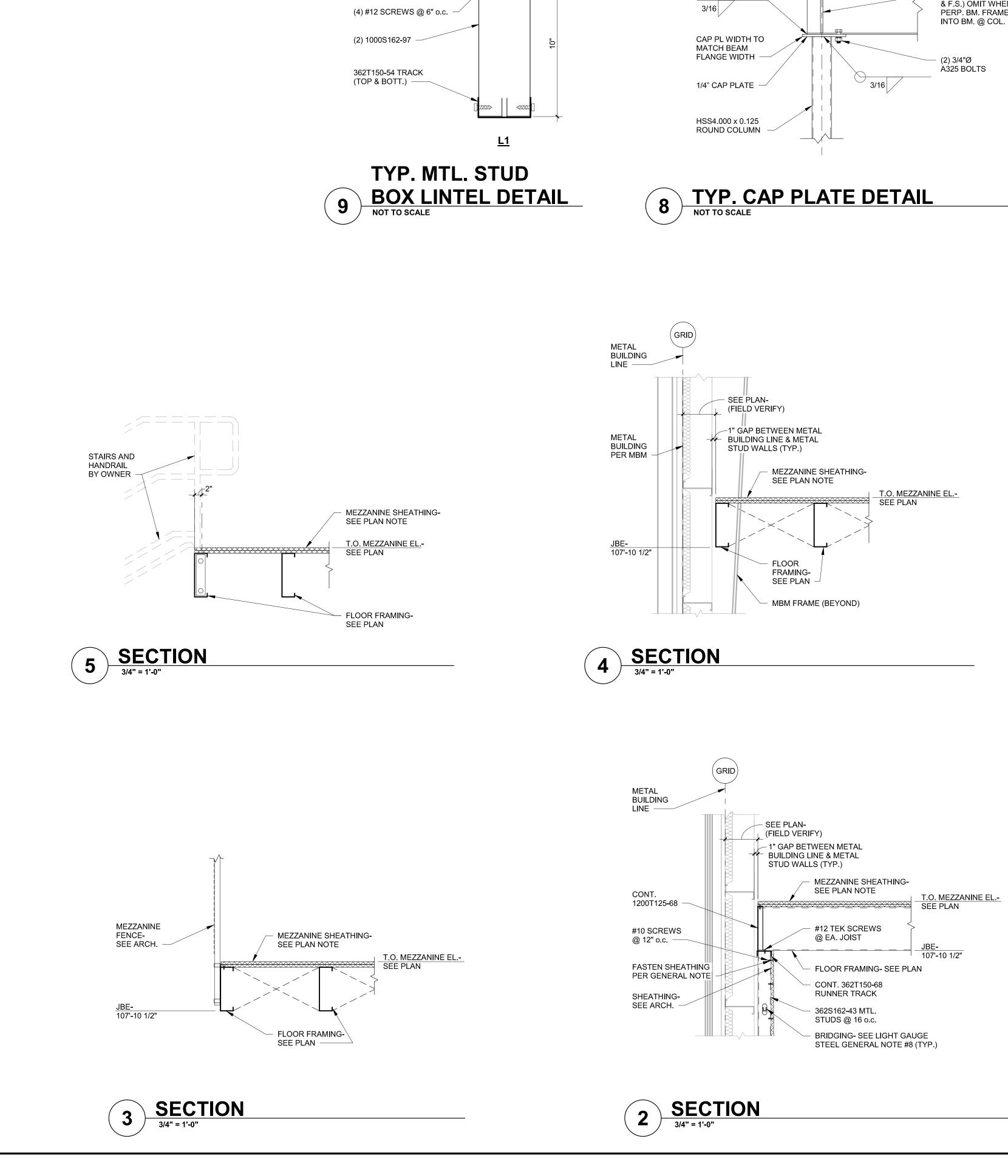
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PEDESTAL S	CHEDULE	
VERTICAL DOWELS	TIES	REMARKS
)#6 DOWELS	#3 TIES @ 10" o.c.;	SEE NOTE #1
) #6 DOWELS	#3 TIES @ 10" o.c.; [] (3) TIES MIN.	SEE NOTE #1
) #6 DOWELS	#3 TIES @ 10" o.c.; (3) TIES MIN.	SEE NOTE #1
(10) #6 DOWELS	#3 TIES @ 10" o.c.; (3) TIES MIN.	SEE NOTE #1

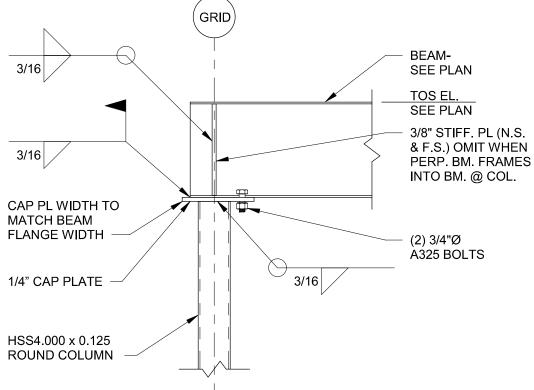




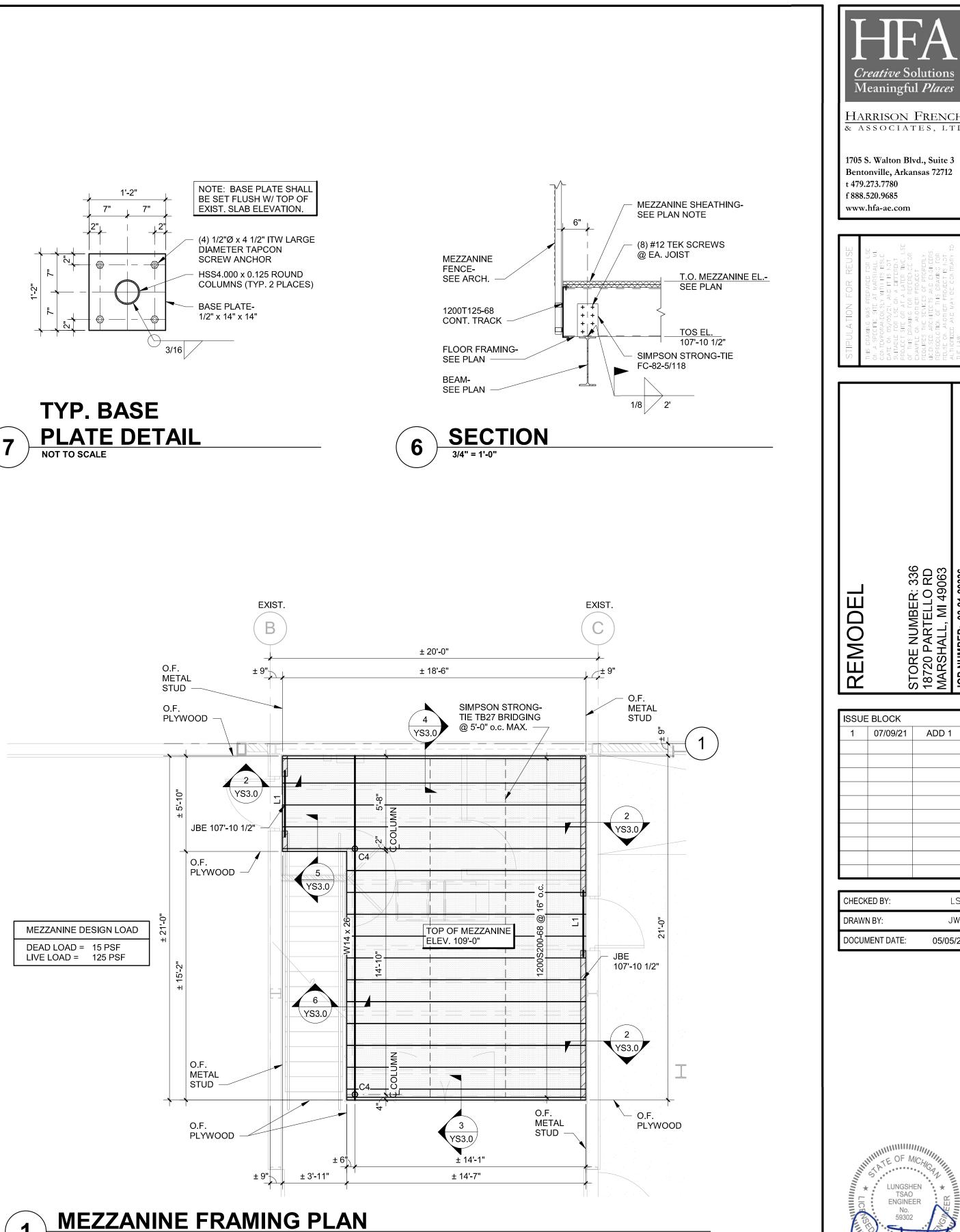
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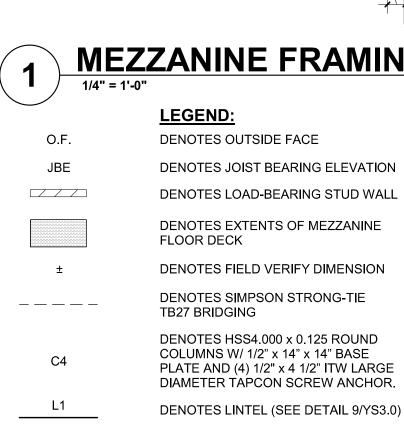
NOTE:

1. PROVIDE WEB STIFFENERS AT BEARING POINTS
 2. PROVIDE (3) STUDS AT EACH SIDE OF JAMBS

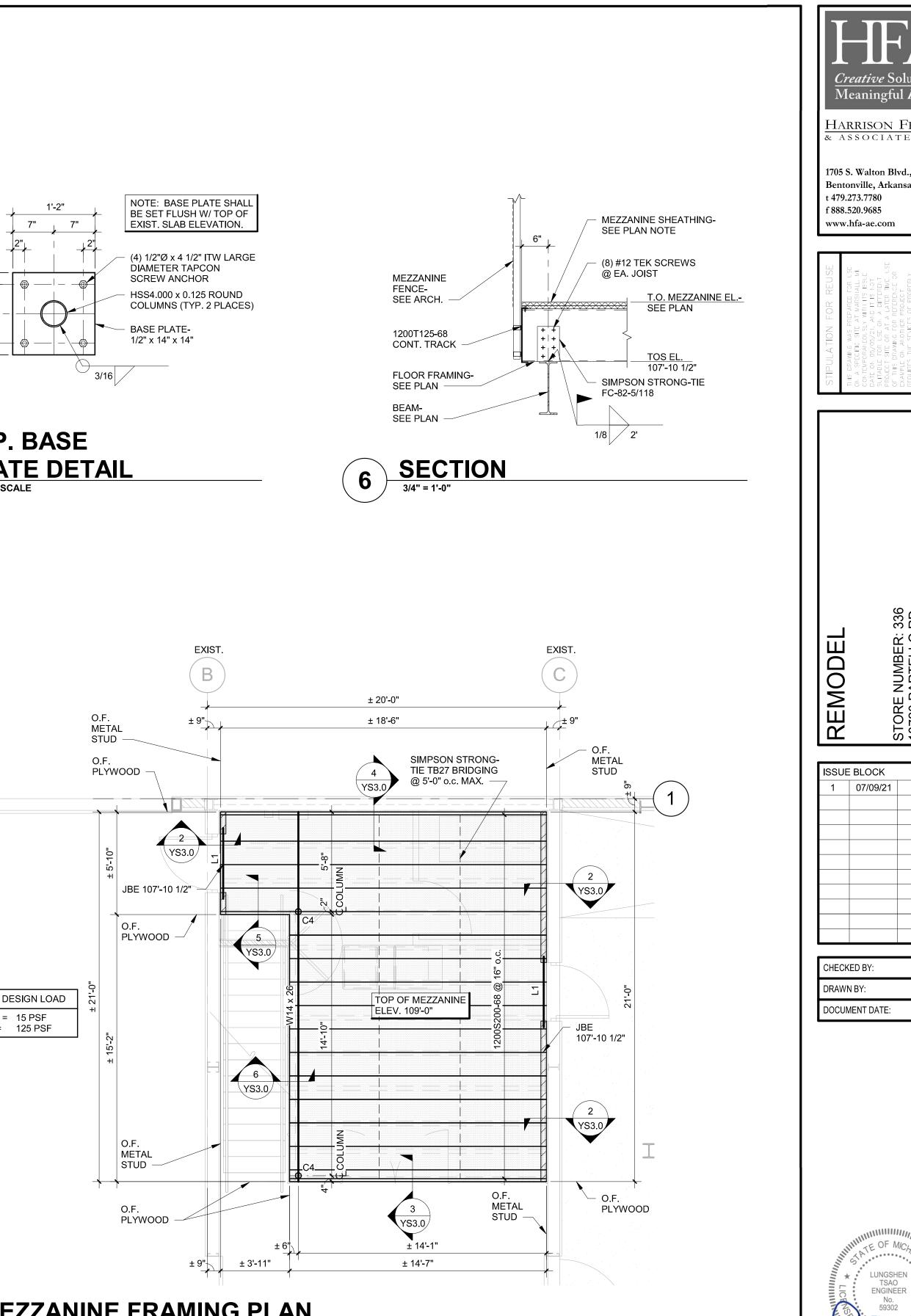












PLAN NOTES:

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.



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MEZZANINE

FRAMING

PLAN &

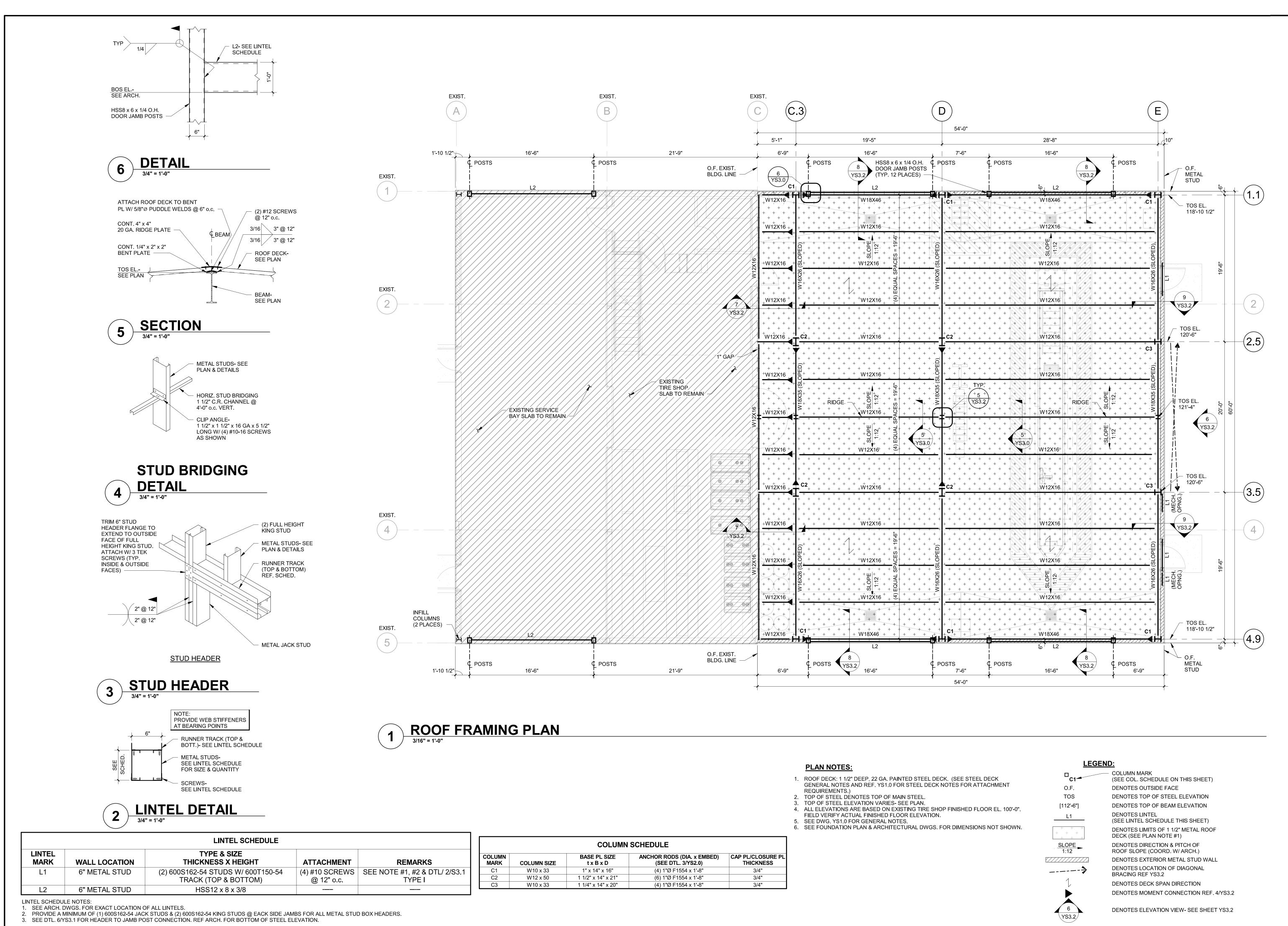
MEZZANINE

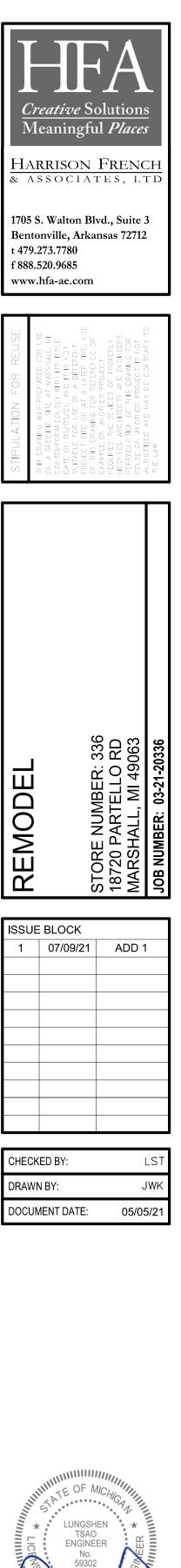
FRAMING

DETAILS

JWK

05/05/21





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ROOF

FRAMING

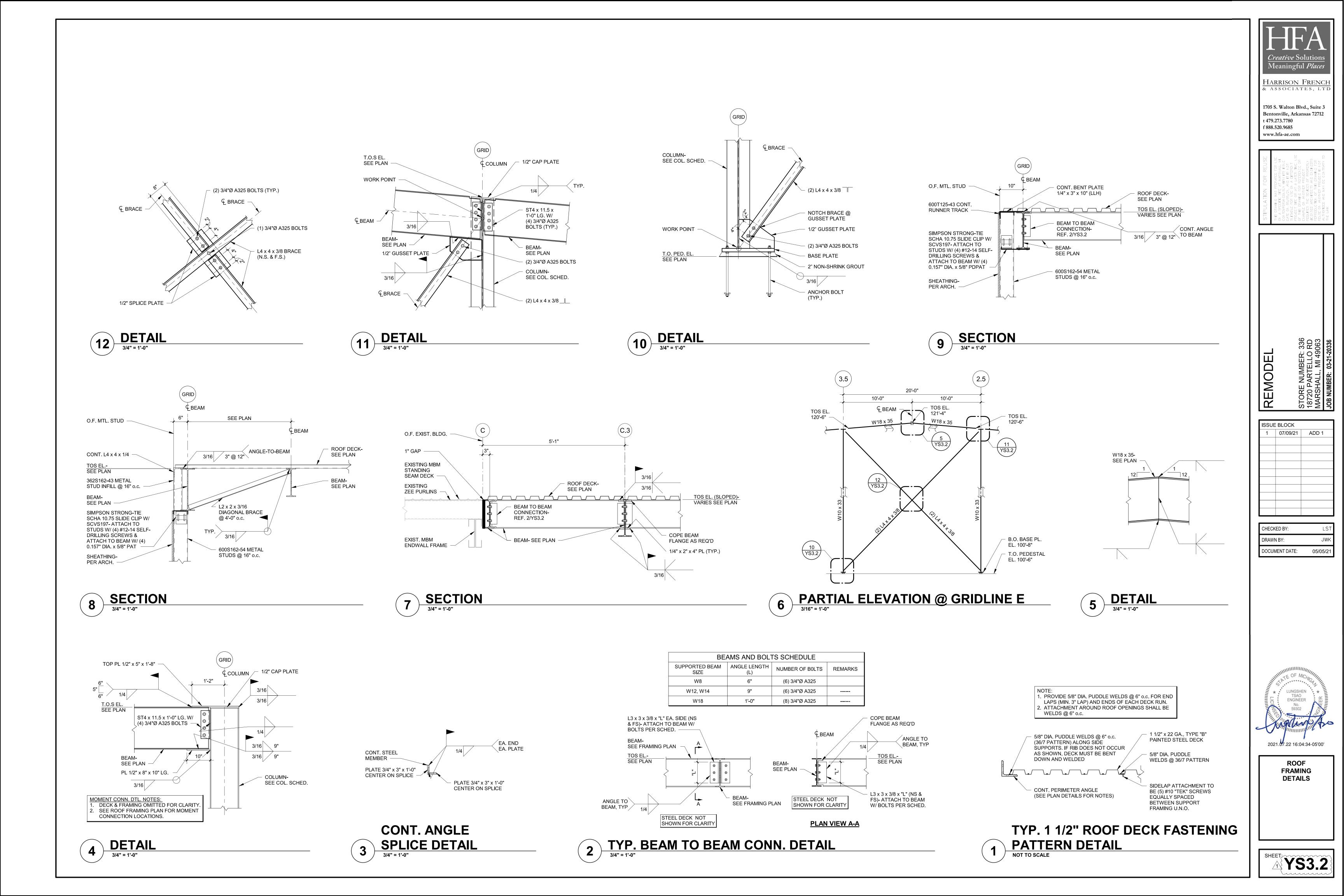
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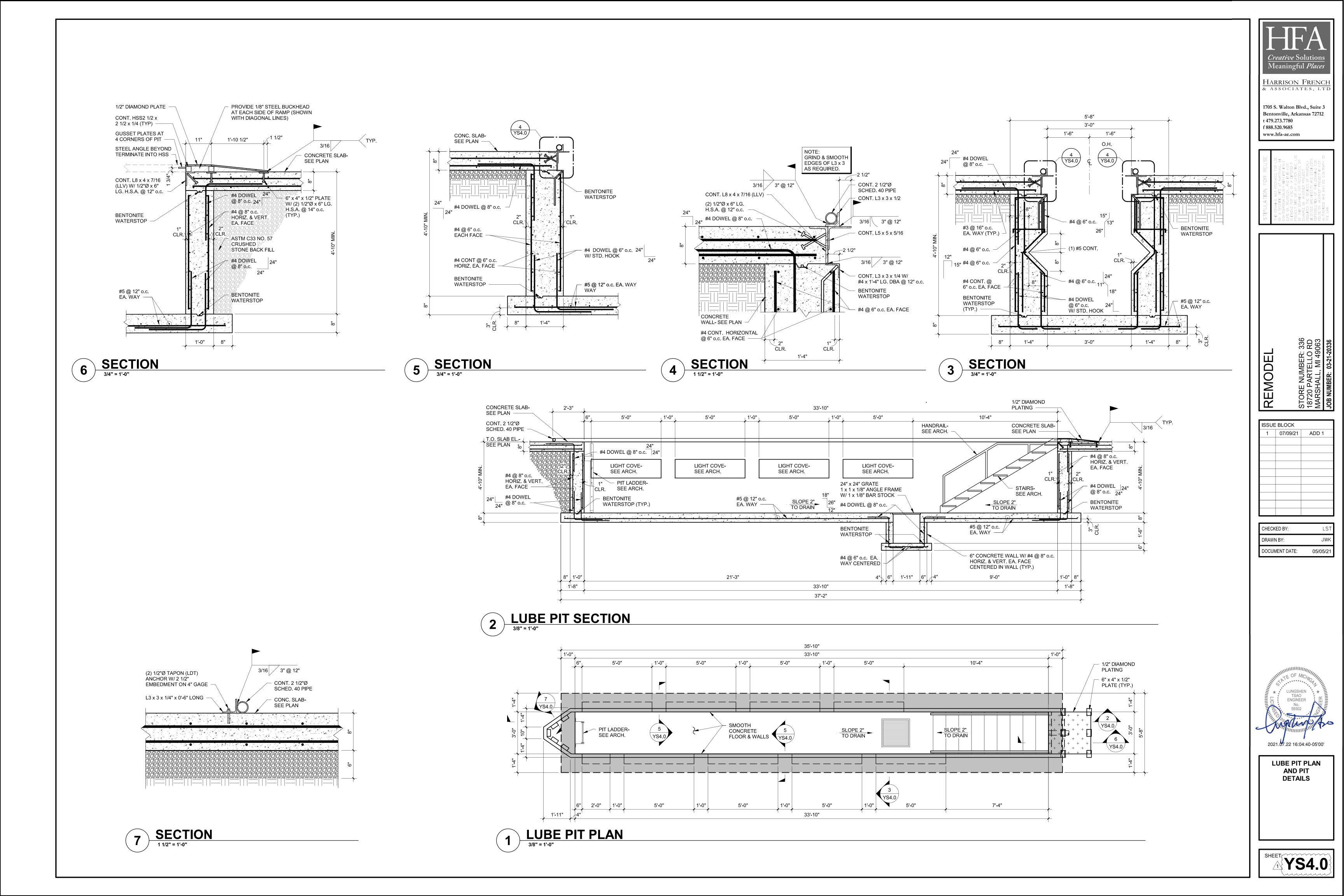
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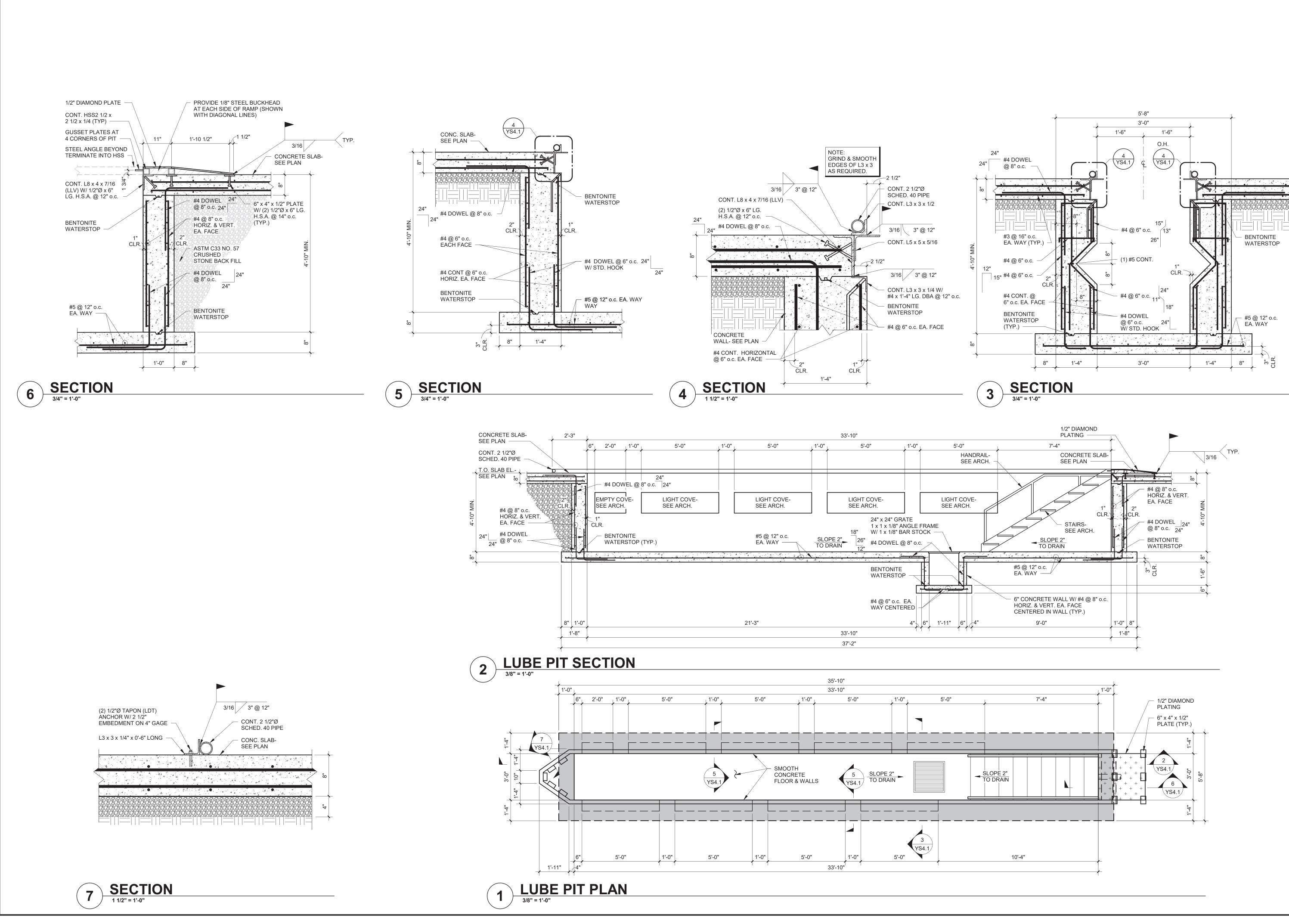
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LEAST Creative Solutions Meaningful <i>Places</i> Marrison Frence ASSOCIATES, LT 1705 S. Walton Blvd., Suite 3 Bentonville, Arkansas 72712 t 479.273.7780 f 888.520.9685 www.hfa-ae.com	CH FD
STIPULATION FOR REUSE THIS DRAWING WAS PREPARED FOR USE ON THIS DRAWING WAS PREPARED FOR USE ON THIS DRAWING WAS PREPARED FOR USE ON TEMPORANEOUSLY WTH ITS ISSUE DATE ON 05/05/21, AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SIFE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SEVICES OF PROPERTY LICENSED ARCHITECTS AND ENGINEERS. REPROJUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT RUITHORIZED AND MAX BF CONTRARY TO	
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DIVISION 15

15A: GENERAL

15A 1-1 GENERAL REQUIREMENTS

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

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

15A 1-2 INSPECTION OF SITE

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

15A 1-3 MATERIAL AND WORKMANSHIP

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

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

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

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

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

15A 1-4 COORDINATION

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

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

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

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

15A 1-5 ORDINANCES AND CODES

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

PROCURE AND PAY FOR PERMITS AND LICENSES REQUIRED 15A 1-13 PENETRATIONS FOR THE ACCOMPLISHMENT OF THE WORK HEREIN DESCRIBED. WHERE REQUIRED. OBTAIN. PAY FOR AND FURNISH CERTIFICATES OF INSPECTION TO OWNER. CONTRACTOR WILL BE HELD RESPONSIBLE FOR VIOLATIONS OF THE LAW.

15A 1-6 PROTECTION OF EQUIPMENT AND MATERIALS

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

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

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

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

15A 1-7 OPERATION AND MAINTENANCE INSTRUCTIONS

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

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

15A 1-8 WARRANTIES

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

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

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

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

15A 1-9 CUTTING AND PATCHING

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

15A 1-10 ROUGH-IN

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

15A 1-11 STRUCTURAL STEEL

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

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

15A 1-12 ACCESS DOORS

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

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

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

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

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

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

15B: HEATING, VENTILATION, AND AIR CONDITIONING

15B 1-1 DUCTWORK

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

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

15B 1-2 ELECTRICAL WIRING

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

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

15B 1-3 FINAL TESTING AND ADJUSTMENTS

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

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

15C: PLUMBING

15C 1-1 PIPING MATERIALS

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

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

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

15C 1-3 PIPING INSTALLATION

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

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

15C 1-4 EXTERIOR UTILITY CONNECTIONS

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

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

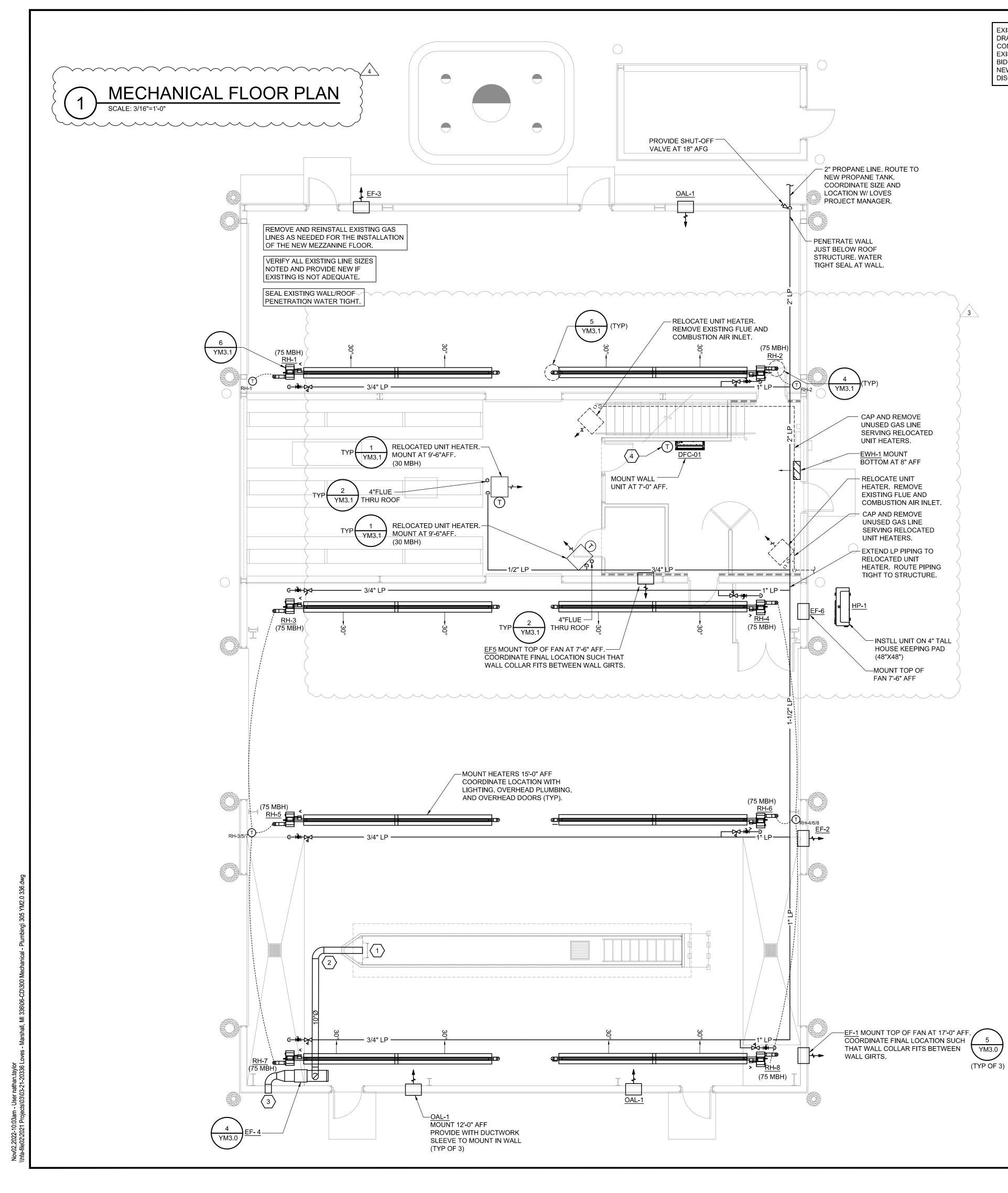
15C 1-5 SYSTEM TESTING AND ADJUSTING

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

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

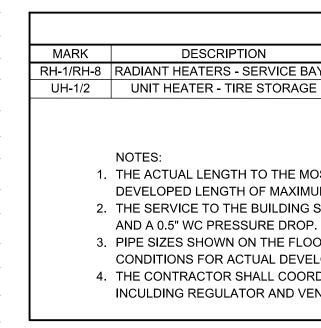
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STIPULATION FOR REUSE	THIS DRAWING WAS PREPARED FOR USE ON A SPECIFIC SITE AT MARSHALL, MI CONTEMPORATEOUSLY WITH ITS ISSUE DATE ON 05/05/21, AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT ALATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHED PROJECT PERCINGES OR EXAMPLE ON	AND THEN FRUGLED AND THE GENVELE OF PROPERIV LICENED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.			
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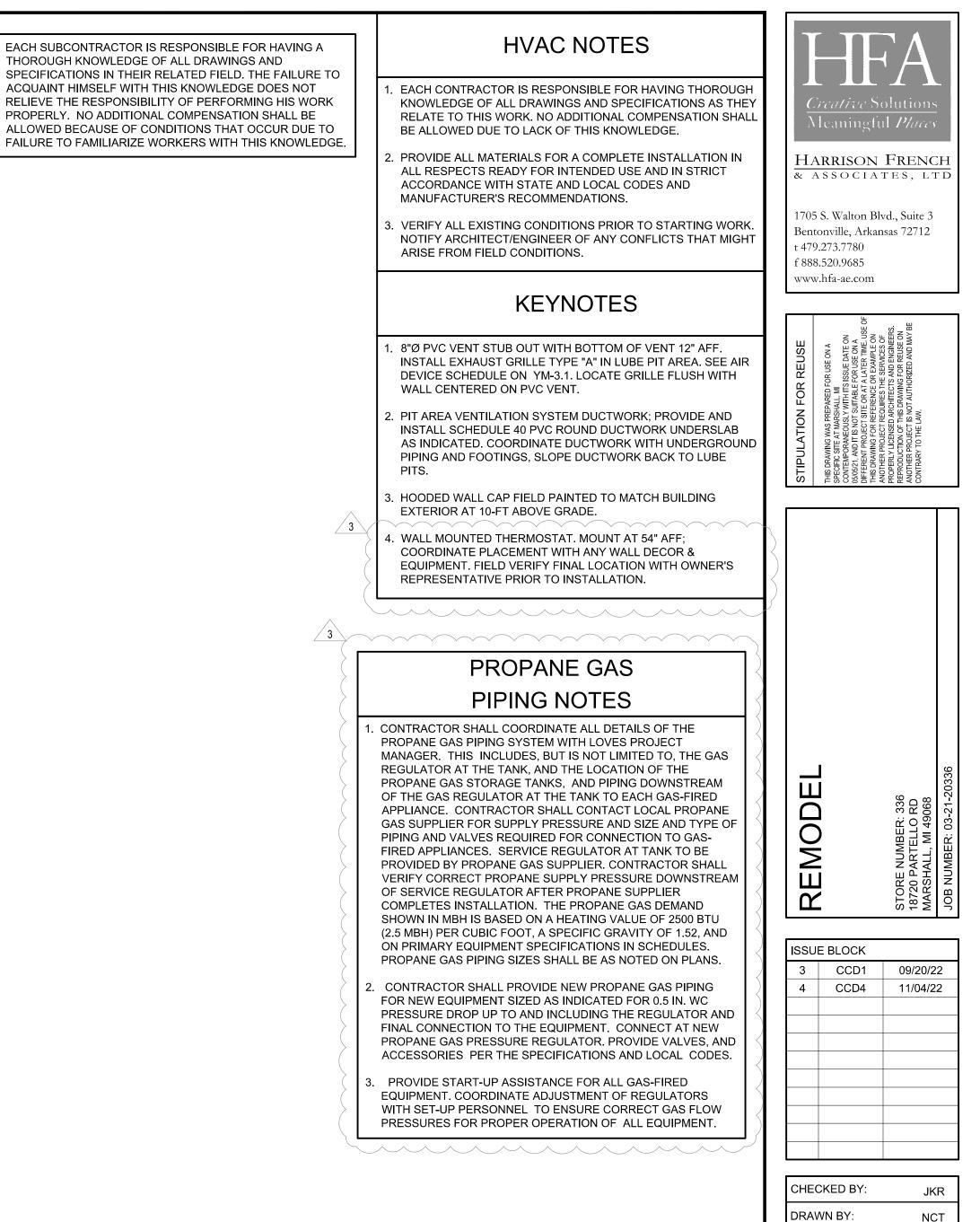
EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT HIMSELF WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING HIS WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.



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.







GAS DEMAND LOAD					
PTION C	ONN. SIZE	QTY.	INPUT (MBH)	TOTAL (MBH)	
- SERVICE BAYS	3/4"	8	75	600	
TRE STORAGE	3/4"	2	30	60	
		COOKING A	PPLIANCE SUB-TOTAL	0	
		WATER	HEATING SUB-TOTAL	0	
	660				

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.) 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 INCULDING REGULATOR AND VENTING REQUIREMENTS.

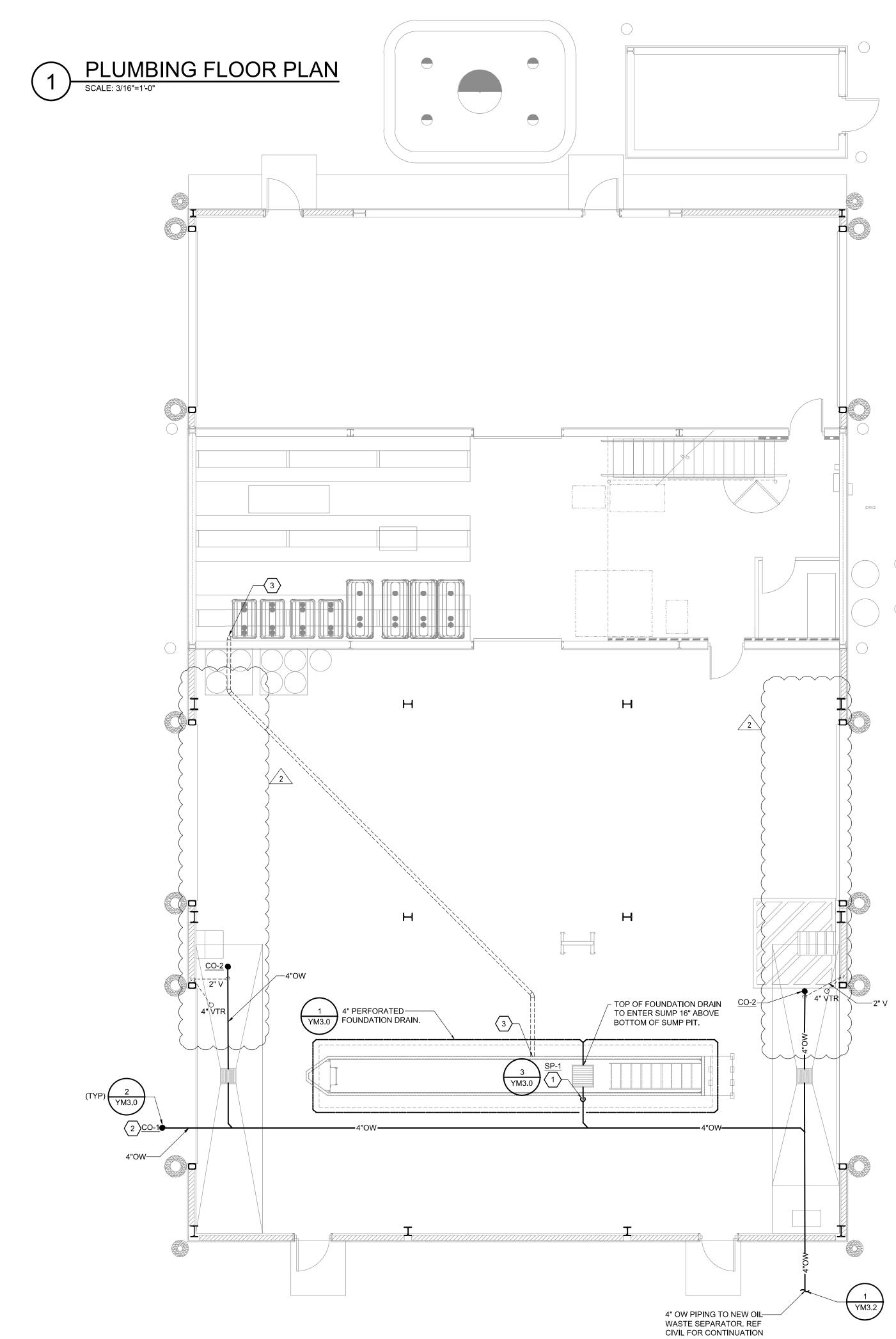


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MECHANICAL FLOOR PLAN

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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

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.
- 10. CONTRACTOR SHALL VERIFY LOCAL CODE REQUIREMENTS FOR INDIRECT CONNECTIONS FOR FOOD PREP AREAS. CONNECTIONS SHALL BE PROVIDED WITH A MINIMUM 1" AIR GAP. UNLESS REQUIRED OTHERWISE BY LOCAL HEALTH DEPARTMENT.
- 1. CONDENSATE PIPING SHALL BE TYPE "L" HARD DRAWN SEAMLESS COPPER TUBE.
- 12. CONTRACTOR SHALL PROVIDE 4" PVC SLEEVES THRU THE ROOF AS REQUIRED BY THE ROOF MOUNTED CONDENSING UNITS; REFER TO ARCHITECTURAL ROOF PLAN FOR THE LOCATIONS.
- 13. CONTRACTOR SHALL PROVIDE AND INSTALL APPROPRIATE SLEEVES AND/OR CAULKING AT ALL PENETRATIONS TO ENSURE FIRE RATING IS MAINTAINED.

KEYNOTES

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



STORE NUMBER: 336 18720 PARTELLO RD MARSHALL, MI 49068
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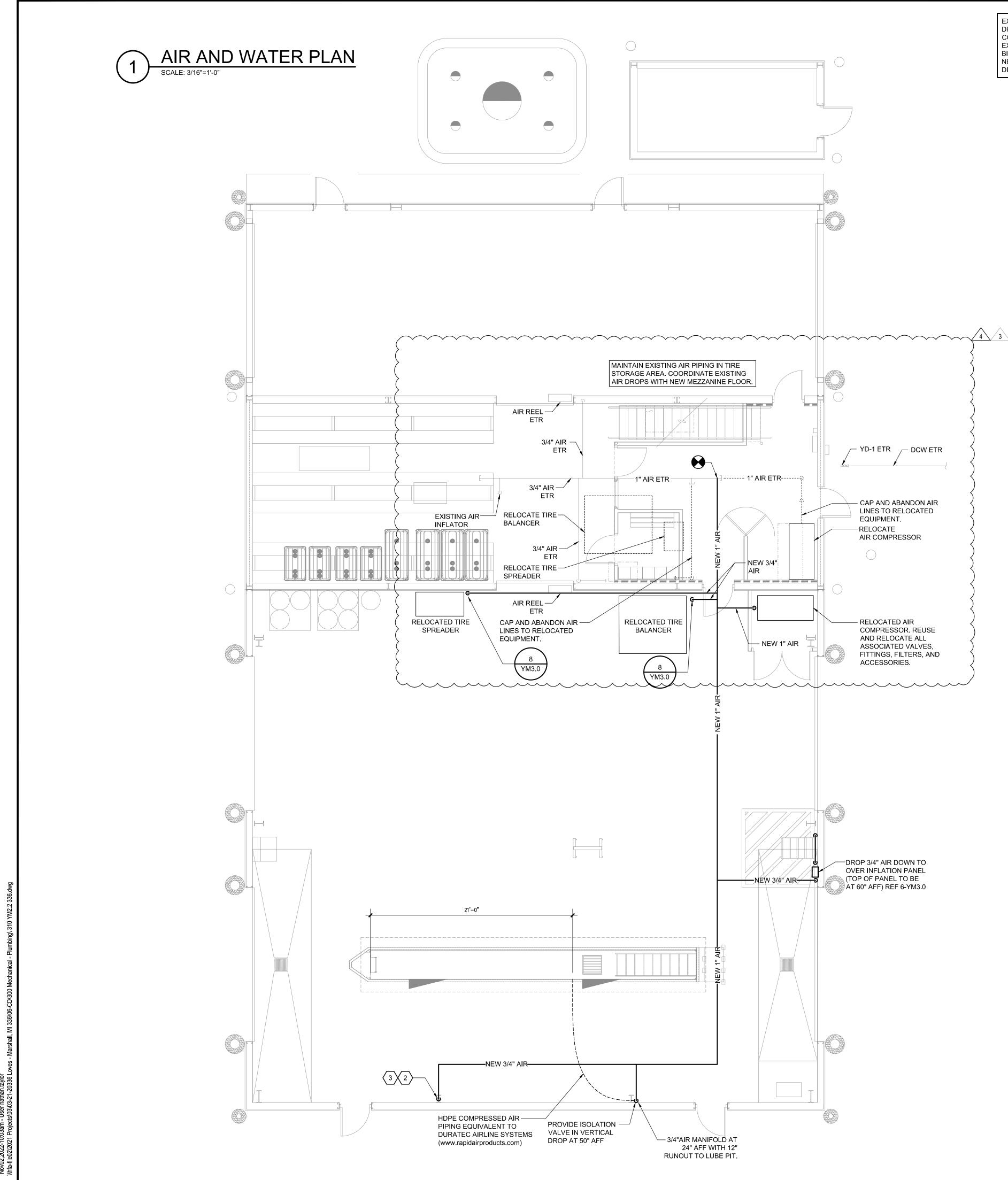
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CHECKED BY: JKR DRAWN BY: NCT DOCUMENT DATE: 05/05/21



2022.03.30 15:38:48-05'00'

PLUMBING
FLOOR PLAN
SHEET:
YM2.1



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.
- CONTRACTOR SHALL PROVIDE AND INSTALL APPROPRIATE SLEEVES AND/OR CAULKING AT ALL PENETRATIONS TO ENSURE FIRE RATING IS MAINTAINED.
- PLUMBING/PIPING IS SHOWN SCHEMATICALLY FOR VIEWING PURPOSES ONLY. DURING INSTALLATION FIELD MODIFICATIONS TO ROUTING MAY BE REQUIRED.
- ALL COMPRESSED AIR PIPING SHALL BE ASTM A53 SCHEDULE 40 STEEL WITH MALLEABLE IRON FITTINGS AND THREADED JOINTS

KEYNOTES

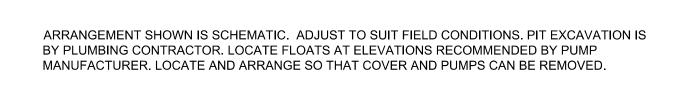
- . EXISTING PIPING AND PIPING ACCESSORIES TO REMAIN UNLESS SHOWN OTHERWISE. FIELD VERIFY EXACT LOCATION.
- . 3/4" COMPRESSED AIR LINE DOWN; SECURE TO WALL/COLUMN WITH PIPE CLAMPS (SEE DETAIL7/YM3.0 FOR ADDITIONAL INFORMATION.)
- 3. 1/2" AND 3/8" HOSE REEL MOUNTED ON COLUMN, REF DETAIL 7/YM3.0.

HA & 1705 Benn t 479 f 888	Creative S Teaming fu ARRISON ASSOCIA 5 S. Walton Bl tonville, Arkar 9.273.7780 8.520.9685 v.hfa-ae.com	1) <i>Places</i> FRENC TES, LT vd., Suite 3				
STIPULATION FOR REUSE	THIS DRAWING WAS PREPARED FOR USE ON A SPECIFIC SITE AT MARSHALL, MI CONTEMPORANEOUSLY WITH ITS ISSUE DATE ON 0500571, AND ITIS NOT SUTTABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON THIS DRAWING FOR REFERENCE OR EXAMPLE ON	AND THER PROJECT RELUNES OF EXERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR RELUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.				
3	JE BLOCK CCD1	STORE NUMBER: 336 18720 PARTELLO RD MARSHALL, MI 49068				
4		11/04/2	2			
DRA	CKED BY: WN BY: UMENT DAT		СТ 5/21			
	CREG J SCHLUTERMAN ENGINEER No. 59304 2022.11.02 10:24:56-05'00'					

SHEET:

YM2.2

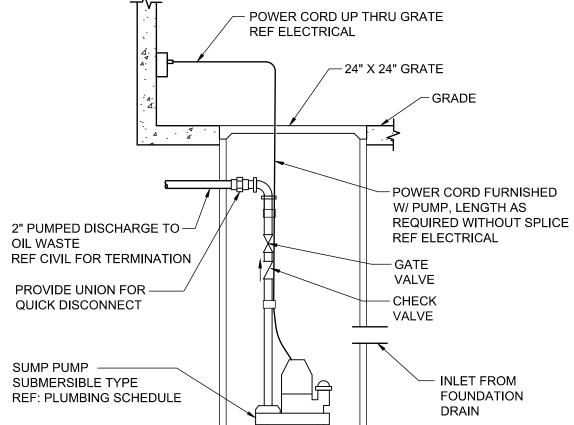




SUMP PUMP DETAIL

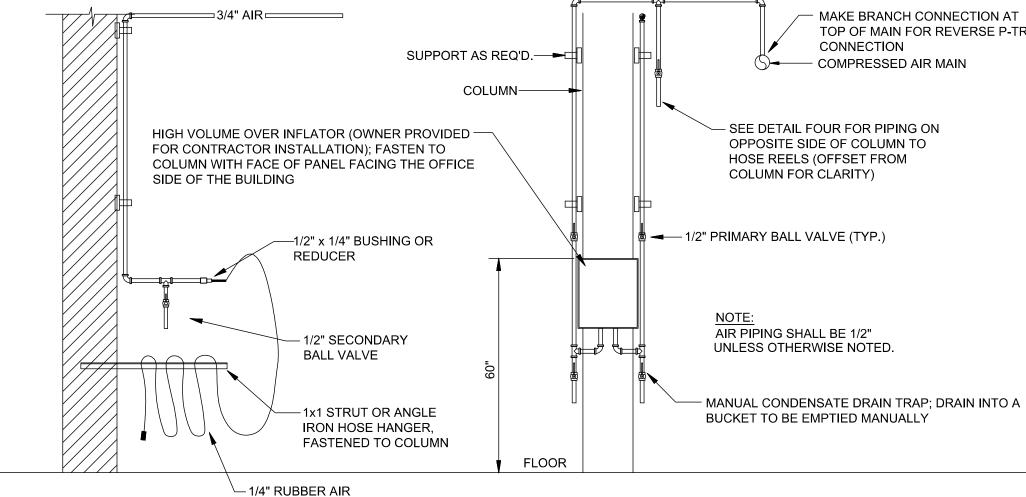
3

SCALE: NTS

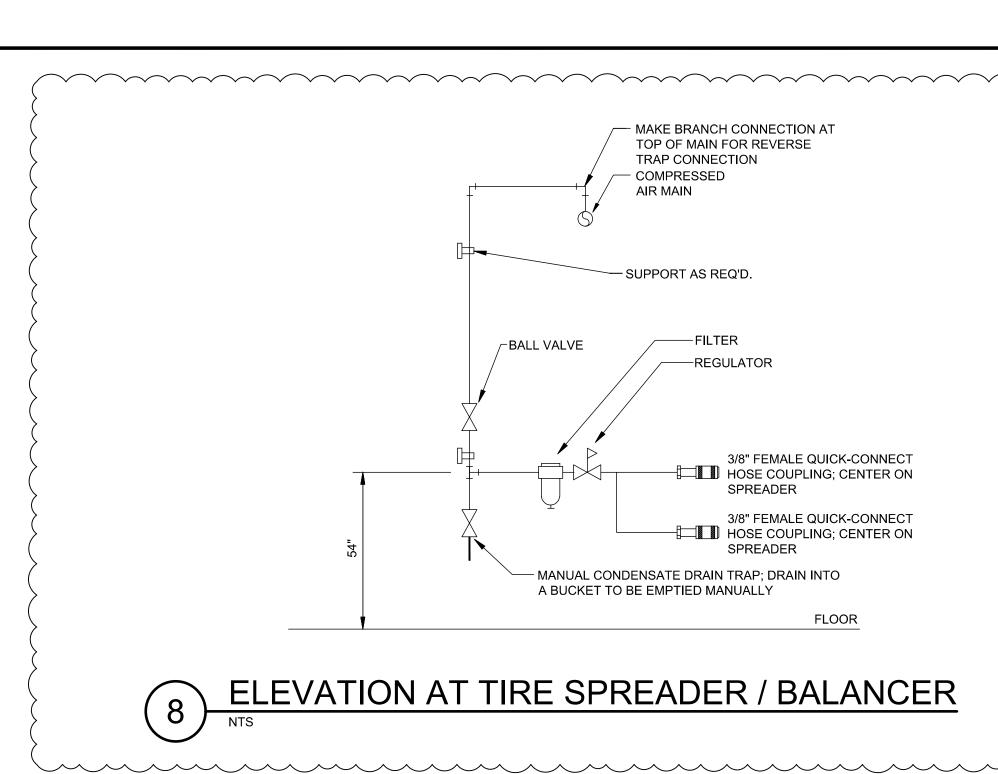




OPERATION: PRIMARY BALL VALVE IS OPENED, ALLOWING COMPRESSED AIR TO FLOW THROUGH TO TIRE. PRESSURE GAUGE ON THE REGULATOR INDICATES PRESSURE BEING SUPPLIED. PRIMARY VALVE IS CLOSED AND THE GAUGE INDICATES BACK-FEED PRESSURE IN THE TIRE. IN AN OVER-INFLATION OR DANGEROUS TIRE SCENARIO, THE PRIMARY VALVE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

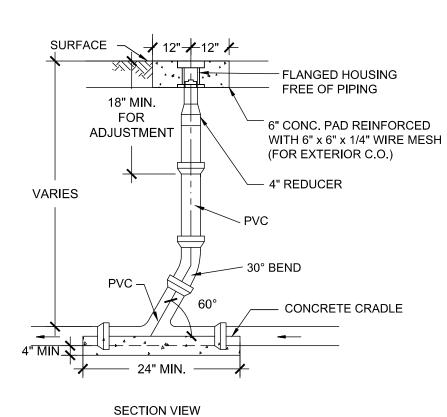


HOSE, 25' LONG

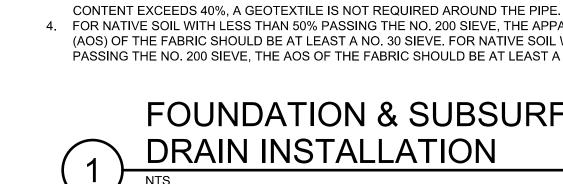




NOTES: 1. COVER SHALL HAVE A LOCKING LID MARKED "SEWER". 2. DESIGN BASIS IS JAY R. SMITH MODEL 4250; REFER TO SPECIFICATIONS



(5)



NATIVE SOIL

TOP OF PIPE (SEE NOTE 1)

4" Ø PERFORATED

GEOTEXTILE SOCK

(SEE NOTE 3 & 4)

SLOPE DRAIN TO SUMP

<u>NOTES</u>

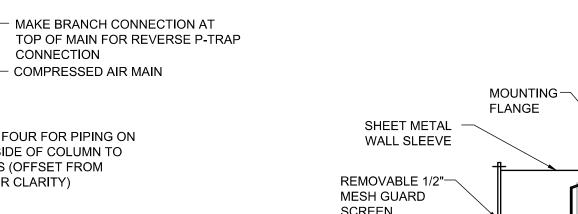
DRAIN PIPE

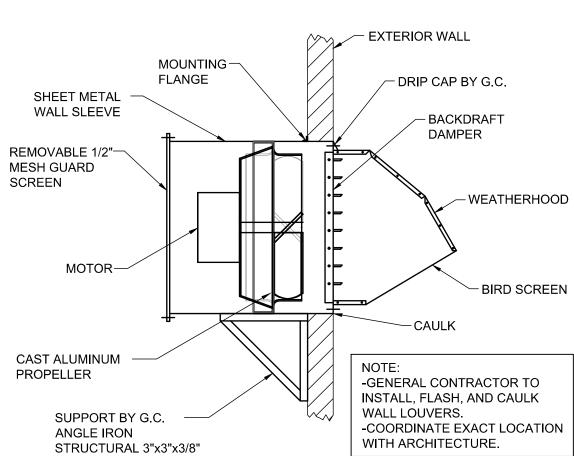
OR OUTFALL

AIR PIPING SHALL BE 1/2" UNLESS OTHERWISE NOTED.

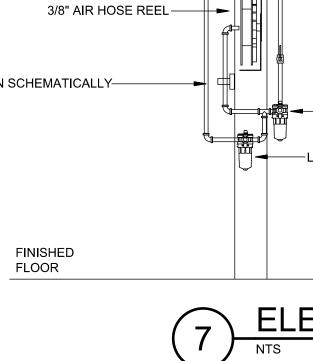
COLUMN FOR CLARITY) Arr 1/2" PRIMARY BALL VALVE (TYP.)

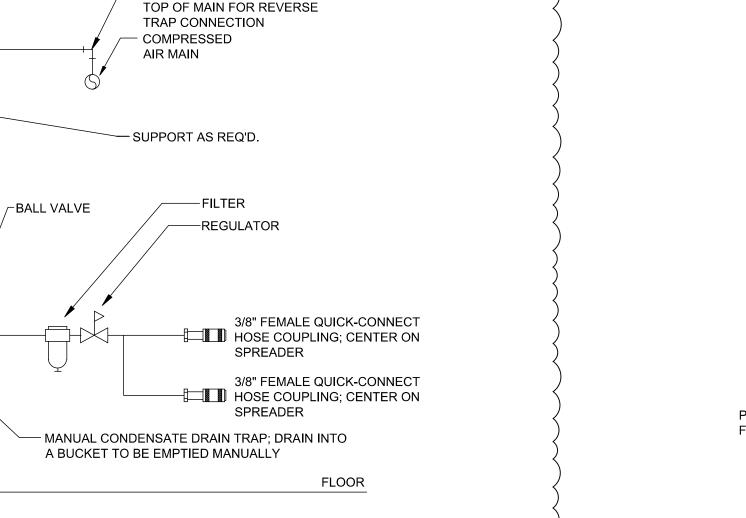
SEE DETAIL FOUR FOR PIPING ON OPPOSITE SIDE OF COLUMN TO HOSE REELS (OFFSET FROM



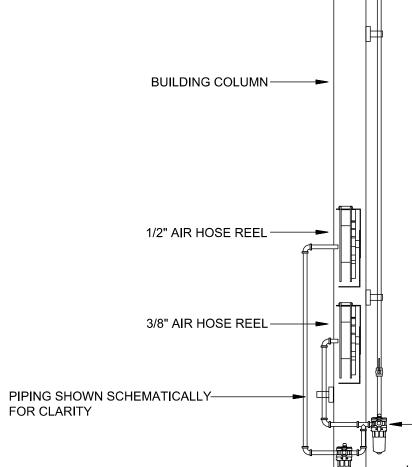


WALL EXHAUST FAN DETAIL

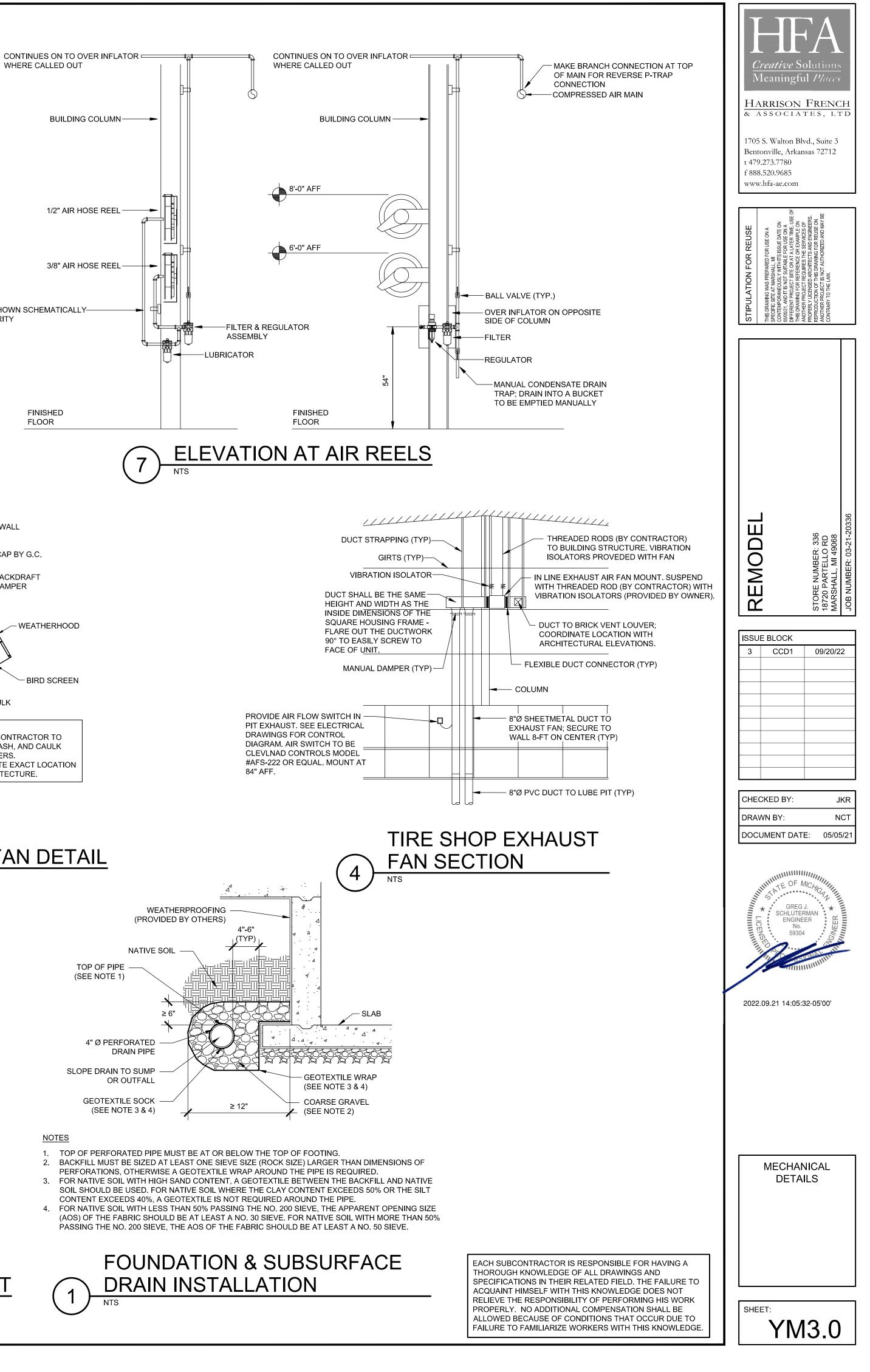




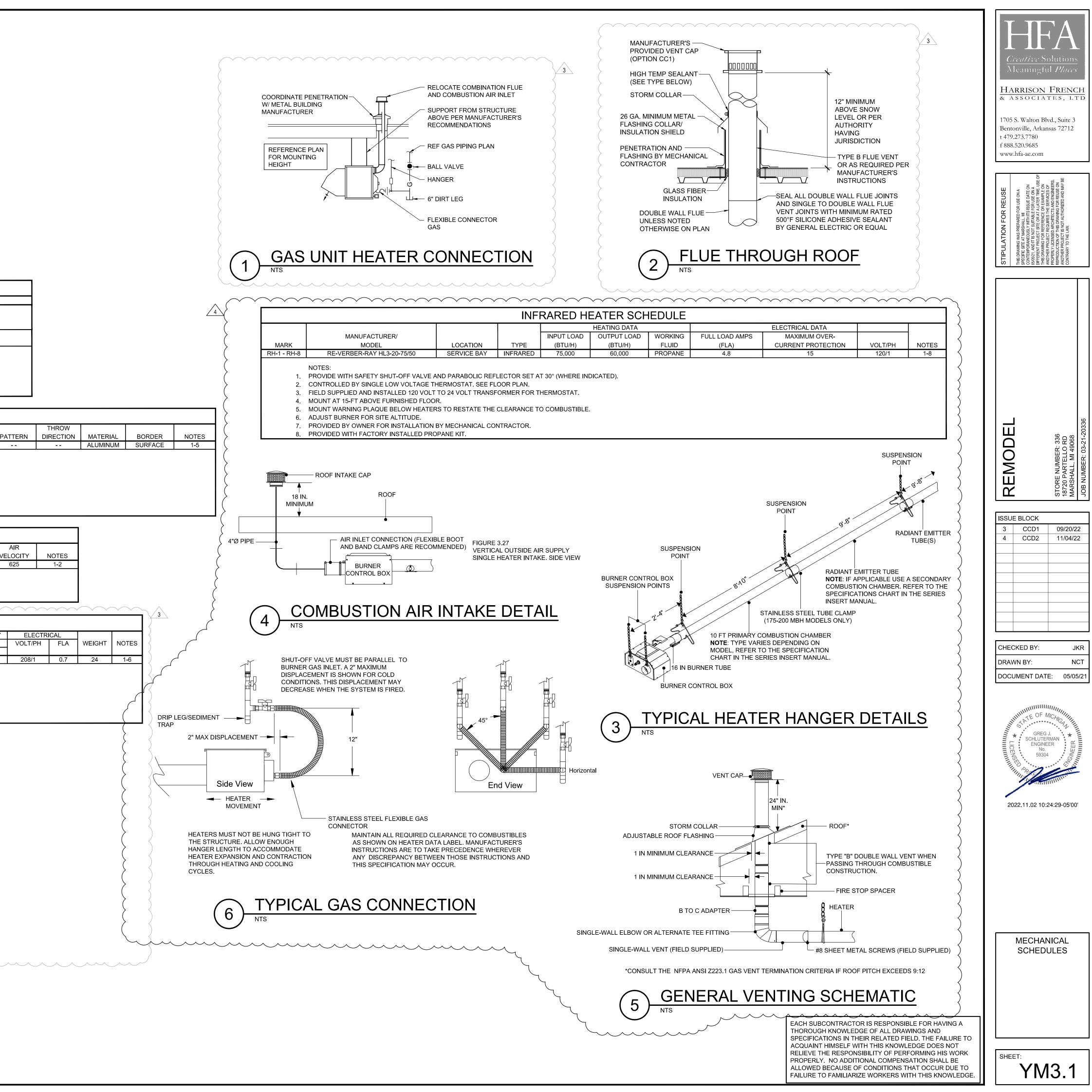
- MAKE BRANCH CONNECTION AT

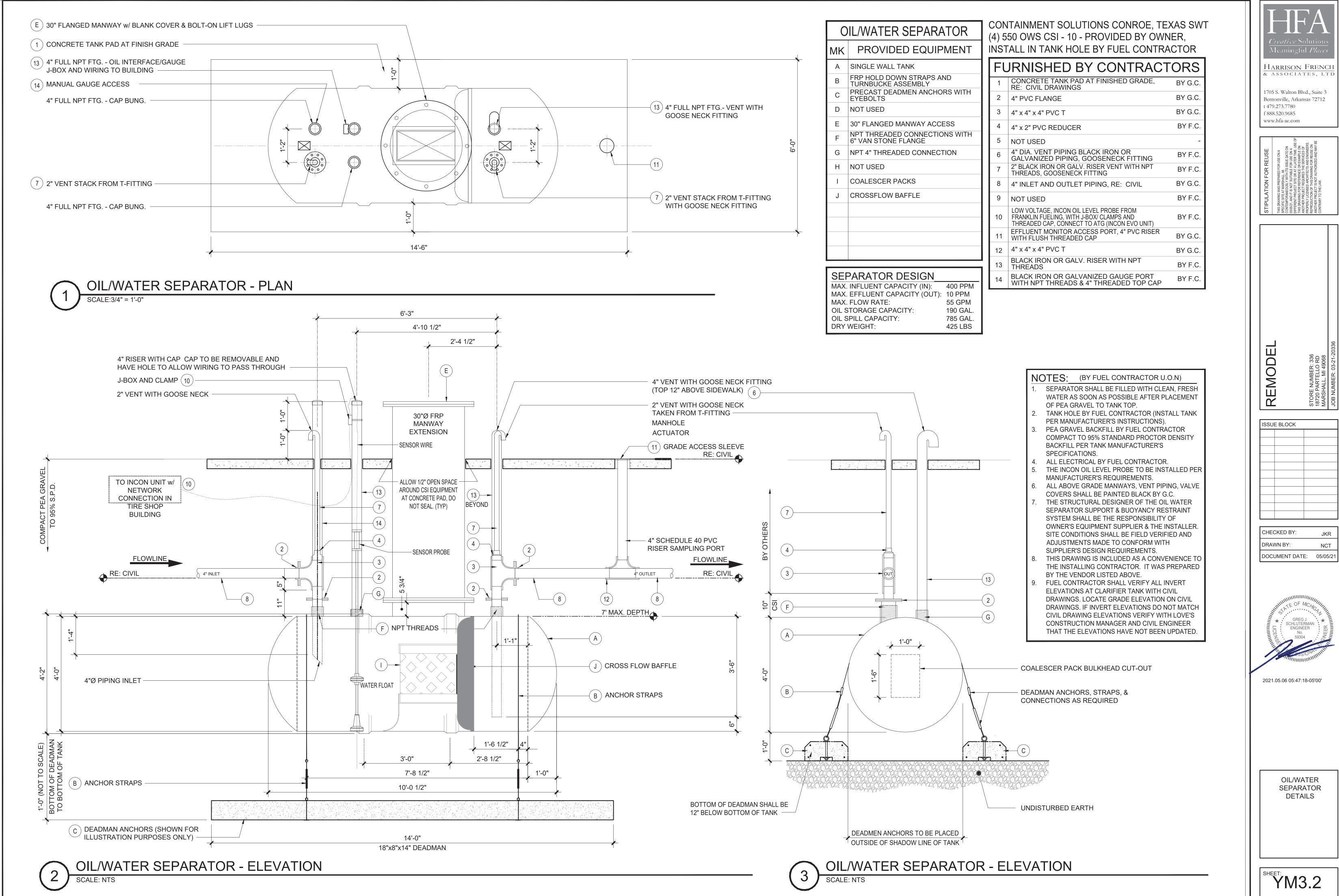


WHERE CALLED OUT



MARK	AREA SERVE	C	MANU		MODEL	CFM	FAN RPM	ESP	V/PH/HZ	ELEC.	NOTE	ES		
EF-1 EF-2	MECHANIC'S B. MECHANIC'S B.		PENNBA		P16RA P16RA	3130 3130	1500 1500	0.15	120/1/60 120/1/60	1/2	A, C			
EF-3 EF-4			PENNBA	RY	P16RA X085SCGP	3130	1500	0.15	120/1/60	1/2	A, C			
EF-6	CHANGING ROU COMP ROOM		- DAYTO MARKE		-10D952 CE-16DS	170	1775	0.25	120/1/60	1/30	A, C			
A. B. C. D. E. F. MARK	GENERAL INFORM UNITS PROVIDED NOTES: FAN SHALL BE SV PROVIDE MANUF, PROVIDE MANUF, PROVIDE WITH PI WIRE TO RUN CO PROVIDE WITH 12 MANUFAC MOD ZOELLER MIGH NOTES: PROVIDE WITH DI	BY OW VITCHE ACTURI LUG TY NTINUC "X 12" TUREF EL HTY MA	VNER, INS ED. REF E ER INTEG ER INTEG (PE DISCO DUS BRICK VE	LEC. RAL DISC RAL DISC NNECT	ONNECT, G ONNECT, G PU TYPE SIBLE SUM	RAVITY BAC RAVITY BAC MP SC	KDRAFT DAN	IPER, BIRD S		ND WEATHE		PH		
							Y PUME	BLING S	SCHED					
MARK CO-1	FIXTURE EXTERIOR CLEAN	OUT		ACTURER . SMITH	MODE 4250		OUTY DURAC	OAT CAST IF		DESCR WITH DOUB		HOUSING		
						AND SC	ORIATED CAS	T IRON COV						
CO-2	INTERIOR CLEAN		JAY R	. SMITH	4221	HEAVY [RON BODY A				ABLE TOP, AN	D SCORIATED	
2.	NOTES: NOT ALL FIXTURE ALL FLOOR DRAIN SEE SPECIFICATIO	IS, FLO	OR SINKS	, AND RO								DR.		
											CHED	-		
MARK	MANUFACTURER NAILOR		IODEL 5H-HD-AL	SER\ EXHA	/ICE SIZ	IECK ZE (IN.) 10"Ø	MODULE SIZE 12"X12"	MAX. AIRF RATE (CI 300		STATIC PR DROP (IN 0.02	N H2O)	THROW @50 FPM (FT)) MAXIMUM NC RATING	
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GENERAL SPECIFICATIONS	WIRING	METHODS	PANELBOARDS
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			 1.1 SUMMARY A. SECTION INCLUDES: 1. SAFETY DISCONNECT SWITCHES. 1.2 REFERENCES A. THE PUBLICATIONS LISTED BELOW FORM A PART OF THIS SPECIFICATION TO THE EXTENT REFERENCED. PUBLICATIONS ARE REFERENCED WITHIN THE TEXT BY THE BASIC DESIGNATION ONLY. B. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA) 1. NEMA 250 - ENCLOSURES FOR ELECTRICAL EQUIPMENT (1000 VOLTS MAXIMUM).
			PART 2 - PRODUCTS

PART 1 - GENERAL	PART 2 - EXECUTION	2.3 TESTING
 1.1 SUMMARY A. SECTION INCLUDES: 1. ELECTRICAL IDENTIFICATION 2. HANGERS AND SUPPORTS 3. CONDUIT SLEEVES 4. GROUNDING AND BONDING PRODUCTS 1.2 ELECTRICAL IDENTIFICATION 	 INSTALLATION INSTALL SPECIFIED MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND AS INDICATED ON DRAWINGS. CUTTING AND PATCHING: WHERE CUTTING IS REQUIRED THROUGH WALLS, FLOORS, OR CEILINGS, MAKE OPENINGS NO LARGER THAN REQUIRED AND REPAIR AFFECTED SURFACES TO MATCH ADJACENT SURFACES. ELECTRICAL EQUIPMENT SUPPORTS: SUPPORT ELECTRICAL EQUIPMENT WITH HANGERS AND SUPPORTS SPECIFIED ABOVE OR IN ANOTHER APPROVED MANNER WHERE DETAILS ARE NOT INDICATED. SLEEVES: INSTALL WHERE CONDUITS PASS THROUGH CONCRETE FLOORS. CAULK SLEEVES THROUGH OUTSIDE WALLS ABOVE GRADE WITH SEALANT. FASTENING AND ANCHORING: FASTEN CONDUIT STRAPS, DISCONNECT SWITCHES, PANELBOARDS, AND OTHER EQUIPMENT SECURED TO WALLS AND SUPPORTS OR EXPANSION 	A. UPON COMF POWER AND AND CABLE CONNECTIO B. MEASURE G AT SERVICE WATER PIPE C. TEST RECEF POLARITY, G D. LOAD TEST
 A. NAMEPLATES: PROVIDE LAMINATED PLASTIC NAMEPLATES WITH 3/4 INCH MINIMUM CONTRASTING COLOR ENGRAVED LETTERS. 1.3 HANGERS AND SUPPORTS A. CONDUIT AND EQUIPMENT SUPPORTS: HANGERS SHALL BE SERIES P3000 OR P3300 CHANNELS BY UNISTRUT DEPENDING ON LOAD AND SPAN INVOLVED. USE PIPE HANGERS BY MINERALLAC, OR CADDY CLIPS BY ERICO ONLY WHERE IMPRACTICAL TO INSTALL UNISTRUT HANGERS. B. ATTACH HANGERS AND SUPPORTS TO STRUCTURE OVERHEAD BY METHODS APPROVED AT JOB SITE. DO NOT USE FASTENERS WHICH PENETRATE THE ROOF DECK. 1.4 CONDUIT SLEEVES A. SLEEVES: GALVANIZED, BLACK STEEL OR SCHEDULE 40 PVC PIPE. 	 SECURED TO WALLS AND SLABS WITH CADMIUM PLATED SCREWS OR BOLTS AND LEAD CINCH ANCHORS OR EXPANSION BOLTS AND INSTALL IN HOLES DRILLED WITH PROPER SIZE MASONRY DRILL. PROPERLY SIZE ANCHORS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS FOR LOAD TO BE SUPPORTED. F. TORQUE ALL CONDUCTOR CONNECTION TO MANUFACTURER'S RECOMMENDED VALUES. INSPECT PANELBOARDS FOR PHYSICAL DAMAGE, PROPER ALIGNMENT, ANCHORAGE, AND GROUNDING. CHECK PROPER INSTALLATION AND TIGHTNESS OF CONNECTIONS FOR CIRCUIT BREAKERS, FUSIBLE SWITCHES, AND FUSES. 2.2 GROUNDING A. GENERAL: GROUND ALL METALLIC CONDUITS, SUPPORTS, CABINETS, EQUIPMENT, SYSTEM NEUTRALS, METAL BUILDING STRUCTURES, AND OTHER ITEMS REQUIRED TO BE GROUNDED IN ACCORDANCE WITH THE NEC AND OTHER APPLICABLE CODES AND AS INDICATED ON DRAWINGS. B. EQUIPMENT GROUNDING: MAKE CONDUITS ELECTRICALLY CONTINUOUS USING PROPER FITTINGS, CONNECTIONS, GROUNDING BUSHINGS, ETC. 	
 1.5 GROUNDING AND BONDING A. INSULATED GROUNDING BUSHING: STEEL WITH FEED-THRU LUGS. B. INSULATED EQUIPMENT GROUND WIRE: COPPER. 	 MARE CONDUT'S ELECTRICALLY CONTINUOUS USING PROPER FITTINGS, CONNECTIONS, GROUNDING BUSHINGS, ETC. WHERE GALVANIZED RIGID METAL CONDUIT (GRC) PENETRATES THE GRADE OUTDOORS OR PENETRATES THE SLAB, INSTALL INSULATING GROUNDING BUSHINGS. INSTALL AN INSULATED EQUIPMENT GROUND WIRE AS SHOWN ON DRAWINGS. METAL UNDERGROUND COLD WATER PIPE: CONNECT TO ELECTRICAL SYSTEM IF AVAILABLE AND PERMITTED BY LOCAL CODES. INSTALL JUMPERS AROUND WATER METERS, VALVES, OR OTHER DEVICES WHICH MIGHT CAUSE AN INTERRUPTION OF CONTINUITY DURING SERVICE. CONCRETE ENCASED ELECTRODES: WHERE INDICATED ON THE DRAWINGS, FURNISH AND INSTALL ELECTRODES, JUMPERS, AND APPROVED FITTINGS IN ACCORDANCE WITH GROUNDING ELECTRODE DETAIL. 	

MATERIALS AND METHODS

E. GROUND RODS: IF GROUND RODS ARE REQUIRED, INSTALL TWO 5/8 INCH MINIMUM DIAMETER COPPERWELD RODS DRIVEN VERTICALLY NOT LESS THAN 12 FEET APART AND EACH WITH 8 FEET OF LENGTH IN CONTACT WITH THE SOIL.

- IPLETION OF INSTALLATION, PERFORM CONTINUITY TESTS ON ID EQUIPMENT BRANCH CIRCUIT CONDUCTORS. INSPECT WIRE E FOR PHYSICAL DAMAGE. VERIFY PROPER PHASING
- GROUND RESISTANCE FROM SYSTEM NEUTRAL CONNECTION CE ENTRANCE TO CONVENIENT GROUND POINT ON BUILDING PE USING SUITABLE GROUND TESTING EQUIPMENT.
- EPTACLES WITH CIRCUIT TESTER TO ENSURE PROPER , GROUNDING, AND CONTINUITY OF CIRCUITS.
- GFCI RECEPTACLES.

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.
	B. EXTERIOR: REFER TO ARCHITECTURAL DOCUMENTS FOR SEALING REQUIREMENTS AT ALL EXTERIOR MOUNTED DEVICES, FIXTURES, ENCLOSURES, AND RACEWAY
2.	PENETRATIONS. PROVIDE A SEPARATE EQUIPMENT GROUNDING CONDUCTOR
	(SIZE PER NEC) IN PVC TYPE CONDUIT, POWER CIRCUITS, ISOLATED GROUND CIRCUITS, OR AS SHOWN ON PLANS. CONDUIT SHALL BE SIZED PER NEC BASED ON THWN 600 VOLT COPPER SINGLE CONDUCTORS, PLUS THE EQUIPMENT
3.	GROUNDING CONDUCTOR. WIRING DEVICES: DEVICE MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO CENTER OF OUTLET BOX UNLESS NOTED OTHERWISE ON PLANS. COORDINATE THE STANDARD MOUNTING HEIGHTS WITH MASONRY:
	A. SWITCHES +46" B. RECEPTACLES +20" C. VOICE/DATA +20"
	WIRING SHALL INCLUDE FINAL CONNECTION TO ALL EQUIPMENT IN CONFORMANCE WITH EQUIPMENT SUPPLIER WIRING DIAGRAMS.
5.	CONTRACTOR IS RESPONSIBLE FOR PROVIDING COMPLETE PANELBOARD IDENTIFICATION SCHEDULES.
6.	BRANCH CIRCUIT CONDUCTORS SHALL BE MINIMUM #12 AWG UNLESS NOTED OTHERWISE IN SCHEDULES. WHERE 20A BRANCH CIRCUITS HAVE #8 AND LARGER WIRE SPECIFIED, #10 AWG WIRE SHALL BE USED FOR THE FINAL CONNECTION (15-FT MAXIMUM).
7.	WHERE BRANCH CIRCUITS ARE GROUPED, SIZE CONDUIT
8.	AND DERATE CURRENT CARRYING CONDUCTORS PER NEC. PROVIDE HANDLE TIES ON ALL MULTIWIRE BRANCH CIRCUITS
9.	TO MEET NEC REQUIREMENTS. CONDUITS EXTENDING BEYOND EXTERIOR WALL: STUB OUT 2'-0" BELOW GRADE TO 5'-0" BEYOND EXTERIOR WALLS UNLESS NOTED OTHERWISE. COORDINATE LOCATION AND
10.	PROVIDE CONNECTION TO SITE CONDUITS. SUPPORTS FROM STRUCTURE: NO ATTACHMENT OF ANY TYPE SHALL BE MADE TO BRIDGING OR JOIST WEB MEMBERS. UTILIZE ONLY THE TOP AND BOTTOM CHORDS
1.	FOR SUPPORTING THE ELECTRICAL SYSTEM INSTALLATIONS. DO NOT INSTALL EQUIPMENT OR CONDUITS DIRECTLY UNDER SKYLIGHT WELLS UNLESS INDICATED OTHERWISE ON PLANS.
2.	WHERE GROUPED CONDUITS ARE INSTALLED WITHIN THE JOIST SPACE, COORDINATE WITH SPRINKLER CONTRACTOR PRIOR TO INSTALLATION IN ORDER TO MAINTAIN REQUIRED CLEARANCES FROM SPRINKLERS.
3.	COORDINATE OUTLET BOX LOCATIONS WITH METAL SIDING TO MINIMIZE CUTTING OF SIDING.
4.	ALL MOUNTING HEIGHTS TO CENTERLINE OF ITEM UNLESS OTHERWISE NOTED. VERIFY ALL OUTLET LOCATIONS ON THE JOB PRIOR TO ROUGH-IN.
5.	LABEL THE FRONT OF EACH RECEPTACLE COVERPLATE WITH PANEL DESIGNATION AND CIRCUIT NUMBER USING CLEAR THERMAL TRANSFER (ELECTRIC DYMO) LABELS WITH 1/8" HIGH BLACK LETTERS (OR CONTRASTING COLOR IF PLATES
	ARE BLACK OR BROWN). LABELS SHALL BE SUITABLE FOR INDOOR/OUTDOOR USE. LABEL THE BACK OF EACH LIGHT SWITCH COVERPLATE WITH PANEL DESIGNATION AND CIRCUIT NUMBER USING A FINE BLACK PERMANENT MARKER.
6.	ALL PIPING, CONDUIT, AND OUTLET BOXES (ELECTRIC, VOICE, DATA, ETC.) IN THE RATED WALLS OR CEILING SHALL BE CONSTRUCTED OF NON-COMBUSTABLE MATERIAL.
7.	OUTLET BOXES (ELECTRICAL, VOICE, DATA, ETC.) SHALL BE LIMITED TO TWO OUTLET BOXES PER STUD SPACE. OUTLET BOXES ON OPPOSITE SIDES OF THE RATED WALLS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF 24 INCHES.
8.	LABEL EACH RECEPTACLE COVERPLATE 'COMPUTER' USING CLEAR THERMAL TRANSFER (ELECTRONIC DYMO) LABELS WITH 1/8" HIGH LETTERS.
9.	THE COLOR OF ISOLATED GROUND RECEPTACLES AND COVERPLATES SHALL MATCH THOSE OF OTHER DEVICES ON THE JOB.
20.	FOR ISOLATED GROUND CIRCUITS, PROVIDE AN ISOLATED GROUND CONDUCTOR THROUGHOUT THE LENGTH OF THE CIRCUIT IN ADDITION TO THE PHASE, NEUTRAL, AND GROUND CONDUCTORS.

FURNISHED BY THE ACCOUNT VENDOR,

GRAYBAR.

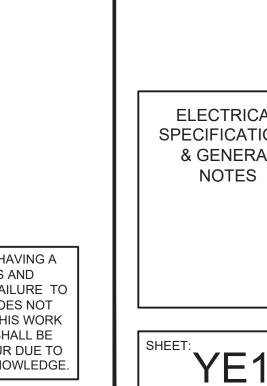
CONTACT: JOE STOLL

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EMAIL: LOVES@GRAYBAR.COM

SY	MBOL LEGEND
(SYMBOLS APF SYMBOL	PLY ONLY WHEN USED ON DRAWINGS) DESCRIPTION
₩ / ⊗	EXIT FIXTURE (WALL MOUNTED/CEILING MOUNTED)
	EMERGENCY FIXTURE
\$	SWITCH, SINGLE POLE
\$3	SWITCH, 3-WAY
\$4	SWITCH, 4-WAY
ф. \$К	SWITCH, KEYED
\$D	SWITCH, DIMMER
\$vs	SWITCH, VARIABLE SPEED
\$M	SWITCH, MANUAL MOTOR
OS1	SENSOR, MANUAL ON, AUTO OFF
OS2	PIR DIMMER WALL SWITCH OCC. SENSOR, MANUAL ON, AUTO OFF
OS ³	ULTRASONIC CEILING OCC. SENSOR
OS4	DUAL-TECH WALL SWITCH OCC. SENSOR, MANUAL ON, AUTO OFF
035	LOW TEMPERATURE, ULTRASONIC CEILING OCC. SENSOR
 P	POWER PACK
φ	RECEPTACLE, DUPLEX
 	RECEPTACLE, DUPLEX,
Ð	MOUNTED HORIZONTALLY RECEPTACLE, DUPLEX FLUSH FLOOR
	RECEPTACLE, DUPLEX ISOLATED
	GROUND FLUSH FLOOR RECEPTACLE, DOUBLE DUPLEX
	RECEPTACLE, DUDLEX
9	ISOLATED GROUND RECEPTACLE, DOUBLE DUPLEX,
•	ISOLATED GROUND RECEPTACLE, SIMPLEX TWIST LOCK,
Ø	L5-15R, UNO
P	RECEPTACLE, SIMPLEX TWIST LOCK, ISOLATED GROUND, L5-15R, UNO
P	RECEPTACLE, DUPLEX TWIST LOCK, L5-15R, UNO
P	RECEPTACLE, DUPLEX TWIST LOCK, ISOLATED GROUND, L5-15R, UNO
-@	RECEPTACLE, SPECIAL
φ	RECEPTACLE, SIMPLEX
	RECEPTACLE, PLUG-MOLD
J	JUNCTION BOX (WALL MOUNTED/CEILING MOUNTED)
A	ALARM JUNCTION BOX, (WALL MOUNTED/CEILING MOUNTED)
R	ALARM JUNCTION BOX, FOR REMOTE TEST/RESET
	(WALL MOUNTED/CEILING MOUNTED)
	EQUIPMENT CONNECTION POINT (PROVIDED WITH EQUIPMENT)
C	NON-FUSED DISCONNECT
۲h	FUSED DISCONNECT
	UNDERGROUND CONDUIT RUN
	LOW VOLTAGE CIRCUITRY
	CIRCUIT, CONCEALED
	CIRCUIT, EXPOSED
н	CONDUIT SLEEVE
-	FLUSH MOUNTED PANELBOARD
-	SURFACE MOUNTED PANELBOARD
V	TELEPHONE / DATA BOX
v v	LOW VOLTAGE CABLE
	BOX FOR OTHER TELEPHONE, FLUSH FLOOR
\mathcal{A}	MOTOR
	PUSH BUTTON
	BUZZER
•	SMOKE DETECTOR
	HORN / STROBE
DH	DOOR HOLD OPEN
\$ ⊺	HBA DIGITAL TIMER SWITCH - TD200
CF	CONDENSER FANS
ED	ELECTRIC DEFROST

1702 Ben t 477 f 88	Creatice Solutions <u>Creatice Solutions</u> <u>Meaningful Places</u> <u>HARRISON FRENCH</u> & ASSOCIATES, LTD 1705 S. Walton Blvd., Suite 3 Bentonville, Arkansas 72712 t 479.273.7780 f 888.520.9685 www.hfa-ae.com					
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	DOCUMENT DATE: 05/05/21					
s	ELECTR PECIFICA & GENE NOTE	TIONS RAL				



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.

SSOCIATION AL EQUIPMENT

2.1 SAFETY SWITCHES A. SWITCH INTERIOR:

B. SWITCH MECHANISM:

POSITIONS.

C. RATINGS:

D. ENCLOSURES:

PART 3 - EXECUTION

3.1 INSTALLATION

 DEAD-FRONT CONSTRUCTION WITH HINGED ARC SUPPRESSOR AND SWITCH BLADES WHICH ARE FULLY VISIBLE IN THE OFF POSITION AND WITH DOOR OPEN. QUICK-MAKE AND QUICK-BREAK OPERATING HANDLE AND MECHANISM WITH A DUAL COVER INTERLOCK TO PREVENT UNAUTHORIZED OPENING OF THE SWITCH DOOR IN THE "ON" POSITION OR CLOSING THE SWITCH MECHANISM WHILE THE DOOR IS OPEN.

2. PROVIDE ELECTRICAL INTERLOCK SWITCH TO DE-ENERGIZE CONTROL WIRING AS REQUIRED. LINE AND LOAD TERMINALS OF THE DEVICE RATED 100 AMPERES OR LESS SHALL BE RATED FOR 75 DEGREES C. 4. PROVIDE OPERATING HANDLE WITH PROVISIONS FOR INSTALLATION OF A PADLOCK IN "OFF" OR "ON"

 SWITCHES HORSEPOWER RATED FOR 600 VOLTS, 60 HZ, HEAVY-DUTY TYPE. 2. WHERE SWITCHES ARE INDICATED TO BE FUSED, FURNISH WITH PROVISIONS FOR FUSES.

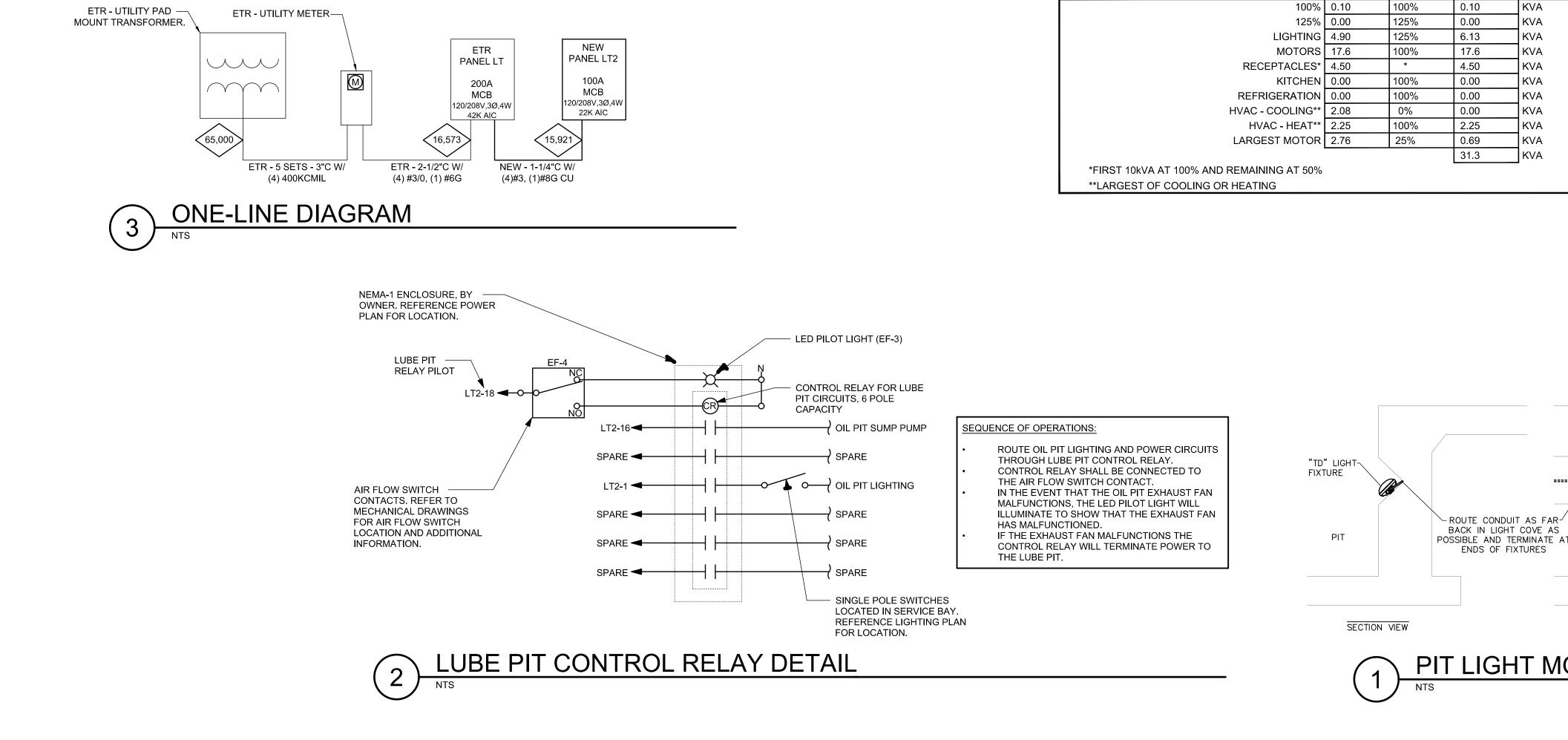
 NEMA 1, CODE GAUGE SHEET STEEL WITH HINGED COVER, EXCEPT WHERE EXPOSED TO WEATHER. IF EXPOSED TO WEATHER, PROVIDE NEMA 3R ENCLOSURE.

A. INSTALL MOTOR AND CIRCUIT DISCONNECT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. APPLICABLE CODES SHALL TAKE PRECEDENCE OVER DRAWING DETAILS. B. PROVIDE PROPERLY SIZED GROUNDING LUG AND TERMINATIONS FOR ALL SAFETY SWITCHES.

			LIGHTING FIXTURE SCHEDU	LE				
TYPE	MANUFACTURER	CATALOG #	DESCRIPTION	VOLTS	WATTS	MOUNTING	REMARKS	FURNISHED B
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
T 4	EATON	4SNLED-LD5-64HL-UNV-L850-CD1-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-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
Х	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

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

							-				-		
СК	LOAD SERVED	WIRE	BRKR	PL	PHA	SE A	PHA	SE B	PHA	SE C	PL	BRKF	۷V ه
1	air compressor (10)		90	3	5.54	0.70			_		1	20	
3				-			5.54	1.00			1	20	1
5				-					5.54	1.00	1	20	
7	TIRE BALANCER (9)	10	30	3	1.60	0.60		-	-		2	50	
9	-			-			1.60	0.60			-		
11	-			-					1.60	0.72	1	20	
13	WELDER (9)	6	50	2	4.20	0.54			-		1	20	
15	208V/1PH			-			4.20	0.20			1	20	
17	spare (11)		20	1					0.00	0.70	1	20	
19	WELDER (N)	6	50	2	0.60	0.24			-		1	20	
21	208V/1PH			-			0.60	0.72			1	20	
23	WELDER (N)	6	50	2					0.60	0.72	1	20	
25	208V/1PH			-	0.60	9.76		-	-		3	100	
27	WELDER (9)	6	50	2			0.60	9.14			-		
29	208V/1PH			-					0.60	9.58	-		
	ΤΟΤΑΙ	L CON	NECTI	ED	24.4		24.2		21.1		K١	/A	
	ΤΟΤΑΙ	L CON	NECTI	ED	203.1		201.6		175.5] AN	I PS	
				TOTAL LOAD			KVA		193.3		AMPS		
	PER NEC ARTICLE 220	FEEDE	ER LO	٩D	69.9		KVA		194.1		AN	ЛРS	



EXISTING PANELBOARD

200A M.C.B. 42,000 AIC

208Y/120V, 3PH, 4W

SURFACE MOUNT

GROUND BAR ISOLATED GROUND BAR

28

	PHASE C P		PL	BRKR	WIRE	LOAD SERVED	СК
			1	20	-	air dryer (10)	2
)			1	20	12	TIRE SPREADER (9)	4
	5.54	1.00	1	20		inflation cage (10)	6
			2	50	6	WELDER (N)	8
)			-				10
	1.60	0.72	1	20	1	receptacles (10)	12
			1	20	1	receptacles (10)	14
)			1	20	-	bldg sign (10)	16
	0.00	0.70	1	20	1	bldg sign (10)	18
			1	20		door sign (10)	20
2			1	20		ig rec - computer station (10)	22
	0.60	0.72	1	20		ltg - parking lot (10)	24

3 100 -- PANEL LT3 (N,14)

LT2

SERVES: TIRE SHOP

LOCATION: BELOW MEZZANINE

FED FROM: PANEL LT

	СК	LOAD SERVED		BRKR	ы	PHA		PHASE B	рцл	SE C	ы	BRKR	
	1	LTG - OIL PIT (N,15)	12	20	1	0.26	0.56	FTIAGE D	FIIA		2	20	
	3	LTG - INT EMERGENCY (N)	12	20	' 1	0.20	0.00	0.65 0.56	1		-	20	+-'
	5	LTG - SERVICE BAY (N)	12	20	' 1			0.00 0.00	1.09	0.56	2	20	┢╴
	7	LTG - WORKBAY WALLPACKS (N)		20	1 1	0.27	0.56		1.09	0.50	-	20	⊢
	9	LTG - WORKBAY WALLPACKS (N)		20	' 1	0.21	0.50	0.27 0.86	I		1	20	+
	9 11	LTG - MECHANICS BAY (N)	12	20	1 1			0.27 0.80	0.95	0.86	1	20	+
	13	MADDENCO (N)	12	20	' 1	0.36	0.86		0.95	0.00	1	20	┝┤
	15	LTG - SHOP (N)	12	20	1	0.50	0.00	0.99 1.20	1		1	20	+
	15	REC - SERVICE BAY (N)	12	20	1 1			0.99 1.20	0.90	0.10	1	20	┝┤
			12	20		0.36	1.20		0.90	0.10		20	┝┤
	19	REC - DESK (N)			1	0.30	1.20	0.72 0.00	I		1	20	+-'
	21	REC - MECHANICS BAY (N)	12	20	1			0.72 0.00	0.70	0.00	1		<u> </u> -
	23	REC - MECHANICS BAY (N)	12	20	1	0.72	0.00		0.72	0.00	1	20	<u> </u> -
\sim	25		12	20	1	0.72	0.00		I	(20	┢╴
4	27	REC - SERVICE BAY (N)	12	20	$\frac{1}{\sqrt{2}}$			1.08 0.26	0.40		1	20	
	29	RH-3, RH-5. RH-7 (N)	12	20)	0.50		0.40	0.40		20	\vdash^1
	31	LTG - EXTERIOR (N)	12	20	1	0.43	0.56		1		2	20	+ ¹
\wedge	33	SPARE (N)		20	1			0.00 0.56		0.50	-		\vdash
4	35	EF-4 (N)	12	20	1	0.00	0.50		0.86	0.56	2	20	
	37	EF-6 (N)	12	20	\sim	0.86	0.56		1		<u> </u>		\vdash
	39	SPARE (N)		20	1			0.00 0.56		0.50	2	20	
	41	SPARE (N)		20	1	0.00	0.50		0.00	0.56	-		\vdash
	43	SPARE (N)		20	1	0.00	0.56		1		2	20	
	45	SPARE (N)		20	1			0.00 0.56		4.00	-		\vdash
\geq	47	SPARE (N)		20	1	1.10	4.00		0.00	1.38	2	20	
5	49	EWH-1 (N,2)	12	20	2	1.13	1.38		T		-		\vdash
$\left\langle \right\rangle$	51	208V/1PH		~~~~~)		1.13 1.04			2	15	
	53	SPACE							0.00	1.04	<u> </u>		L
		TOTAL						10.4	10.4		K١		
		TOTAL				88.5		87.0	86.4			/IPS	
				AL LO		31.4		KVA	87.2			/IPS	
		PER NEC ARTICLE 220 F	-EEDE			31.3		KVA	86.8			/IPS	
)%	0.10		100%	0.10		K١		
					5%	0.00		125%	0.00		١ĸ		
				IGHTI		4.90		125%	6.13		K\		
				ΙΟΤΟΙ		17.6		100%	17.6		١ĸ		
		RI	ECEPT			4.50		*	4.50		١ĸ		
				KITCH		0.00		100%	0.00		١ĸ		
			FRIGE			0.00		100%	0.00		١ĸ		
			C - CO			2.08		0%	0.00		١к		
			HVAC			2.25		100%	2.25		KΝ		
		LAR	GEST	MOT	DR	2.76		25%	0.69		K١	/A	
									31.3		Ιĸ∖	/Α	

NEW

PANELBOARD

208Y/120V, 3PH, 4W 100A M.C.B.

(22K) AIC, SERIES RATED SURFACE MOUNT GROUND BAR

WIRE	LOAD SERVED	ск	
12	ADO-1 (N)	2	
	208V/1PH	4	
12	ADO-2 (N)	6	
	208V/1PH	8	
12	EF-1 (N)	10	
12	EF-2 (N)	12	
12	EF-3 (N)	14	
12	OIL PIT SUMP PUMP (N,4,15)	16	
12	LUBE PIT RELAY PILOT (N,3)	18	
12	PUMP STATION (N,2)	20	
	SPARE (N)	22	
	SPARE (N)	24	
	SPARE (N)	26	4
12	RH-1 & RH-2 (N)	28	
12	RH-4, RH-6, RH-8 (N)	30	5
12	ADO-3 (N)	32	
	208V/1PH	34	
12	ADO-4 (N)	36	
	208V/1PH	38	
12	ADO-5 (N)	40	
	208V/1PH	42	
12	ADO-6 (N)	44	
	208V/1PH	46	
12	OIL FILTER CRUSHER (N,2)	48	
	208V/1PH	50	3
12	HP-1 (N)	52	$\left\{ \begin{array}{c} \cdot \\ \cdot $
	120/208V/1PH	54	3

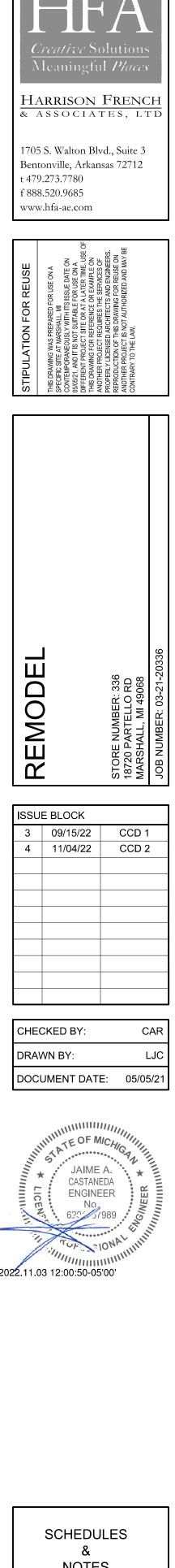
PANELBOARD NOTES ()

- (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.
- (N) NEW

ALL SWITCHBOARDS AND PANELBOARDS SHALL HAVE A COMMERCIALLY PRODUCED PERMANENT LABEL APPLIED TO WARN OF POTENTIAL ARC FLASH HAZARDS, IN ACCORDANCE WITH NEC 110.16 AND NFPA 70E. LABELING MAY BE COMPLETED BY EQUIPMENT MANUFACTURER, EQUIPMENT VENDOR/SUPPLIER, OR THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY THAT ALL SWITCHBOARDS AND PANELBOARDS ARE PROPERLY LABELED IN THE FIELD.

> EXISTING CIRCUITRY IS BASED ON ORIGINAL BUILDING PLANS. IF EXISTING CIRCUITS TO REMAIN ARE NOT AS SHOWN ON THE PANELBOARD SCHEDULES, ARRANGE NEW CIRCUITS BASED UPON PRESENT LOCATION OF EXISTING CIRCUITS TO REMAIN SHOWN IN LOWERCASE.

> > EC SHALL MATCH TYPE AND AIC RATINGS OF EXISTING CIRCUIT BREAKERS AND MAINTAIN SERIES RATING OF BREAKERS



NOTES

SHEET: YE2

POSSIBLE AND TERMINATE AT LIGHT COVE

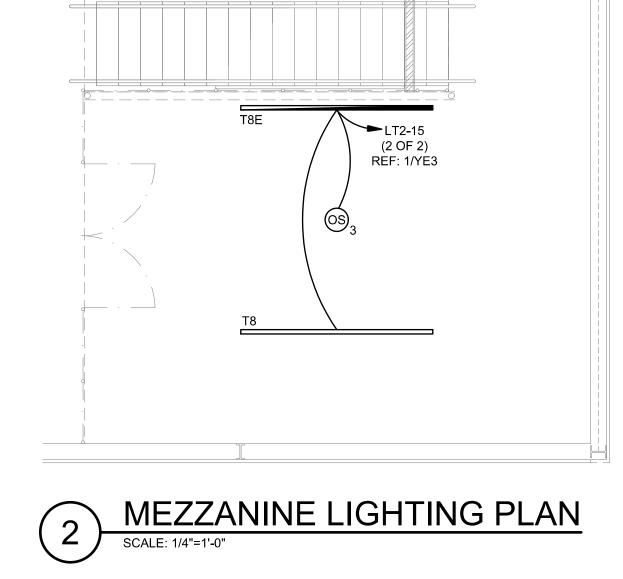
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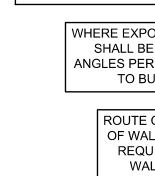
PIT LIGHT MOUNTING DETAIL

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.

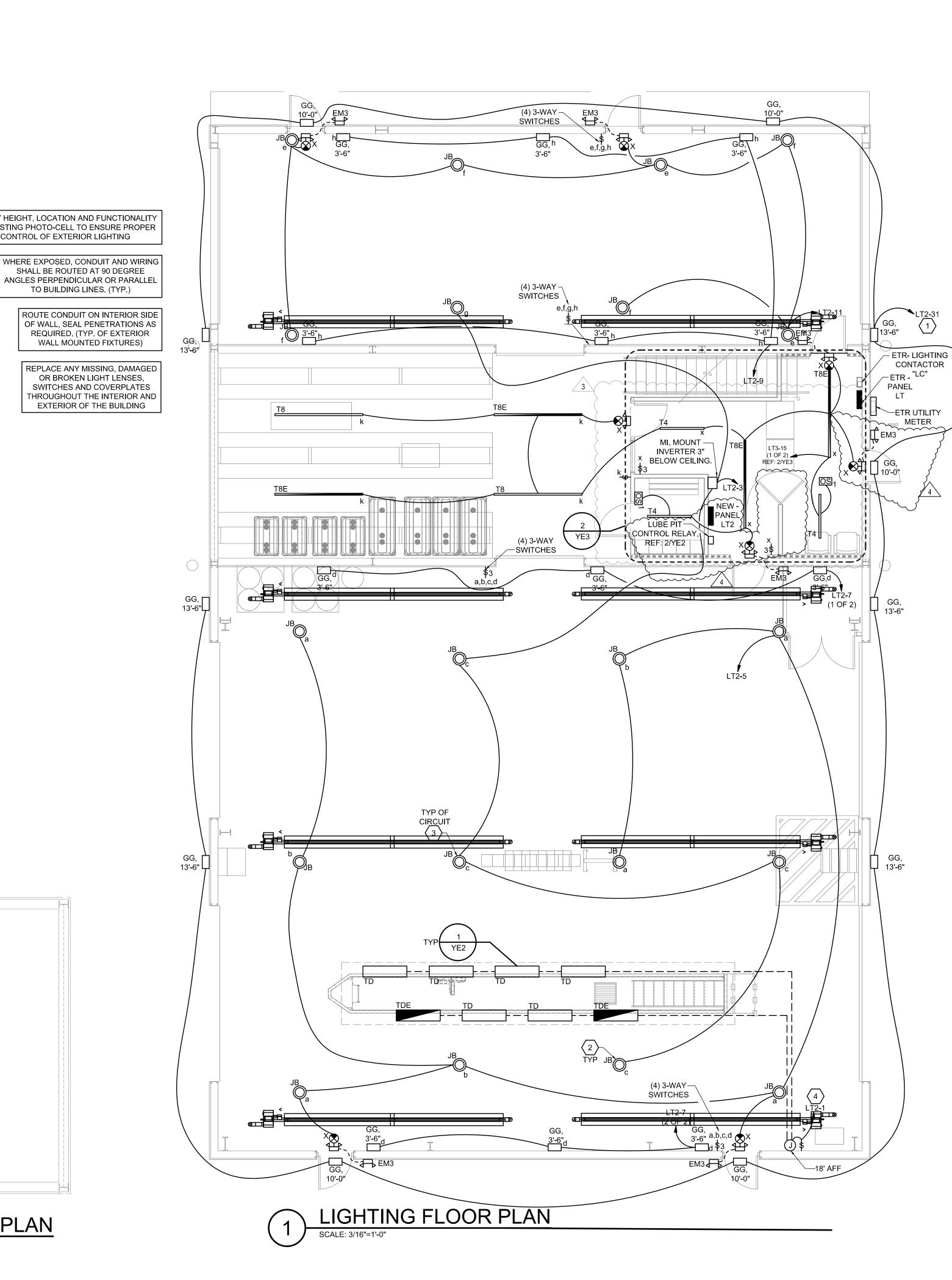
EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A







VERIFY HEIGHT, LOCATION AND FUNCTIONALITY OF EXISTING PHOTO-CELL TO ENSURE PROPER CONTROL OF EXTERIOR LIGHTING



LIGHTING NOTES

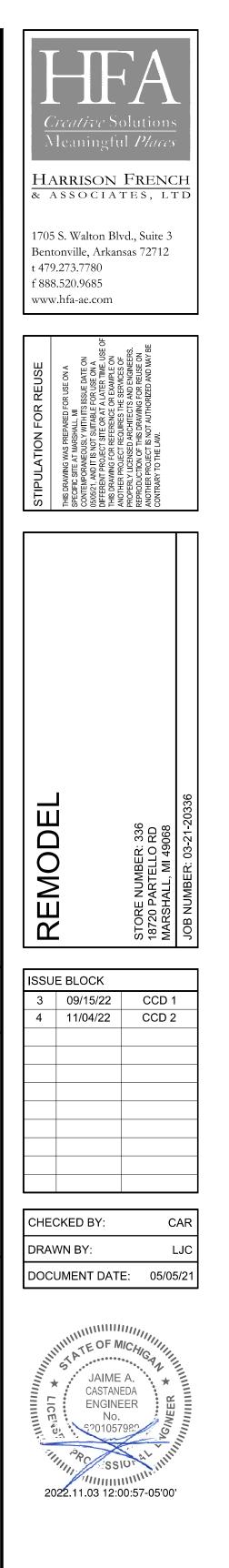
- 1. EXIT SIGN MOUNTING
- A. WALL FIXTURE: CENTER 12" ABOVE DOOR OPENING.
- B. CEILING/PENDANT FIXTURE: ON CEILING OR AT HEIGHT SPECIFIED ON DRAWINGS.
- C. THE USE OF TRITIUM BASED RADIOACTIVE EXIT SIGNAGE SHALL NOT BE ALLOWED.

EMERGENCY LIGHT INSTALLATION FIXTURE MOUNTING

- A. WALL FIXTURE: 12" BELOW FINISHED CEILING OR +10'-0" IN AREAS OF EXPOSED STRUCTURE UNLESS NOTED OTHERWISE.
- B. PENDANT FIXTURE: BOTTOM CHORD OF STRUCTURE OR AT HEIGHT SPECIFIED ON DRAWINGS.
- C. REMOTE HEAD FIXTURE: HEADS CENTERED ABOVE DOOR OPENING +9'-0" UNLESS NOTED OTHERWISE.
- ELECTRICAL CONNECTION
- A. REFER TO MANUFACTURER'S WRITTEN INSTRUCTIONS. ALLOW BATTERY TO CHARGE CONTINUOUSLY FOR A MINIMUM OF 168 HOURS BEFORE INITIAL TESTING.
- B. 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.
- D. 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 ALL NECESSARY HARDWARE TO ATTACH LIGHTS AS NEEDED.
- ROUTE CIRCUIT THROUGH MINI-INVERTER LOCATED IN BELOW MEZZANINE. E.C. SHALL PROVIDE ALL WIRING REQUIRED FOR DIMMING BETWEEN LIGHT FIXTURES AND INVERTER.
- ROUTE CIRCUIT THROUGH LUBE PIT CONTROL RELAY. REFERENCE LUBE PIT CONTROL RELAY DETAIL FOR ADDITIONAL INFORMATION.

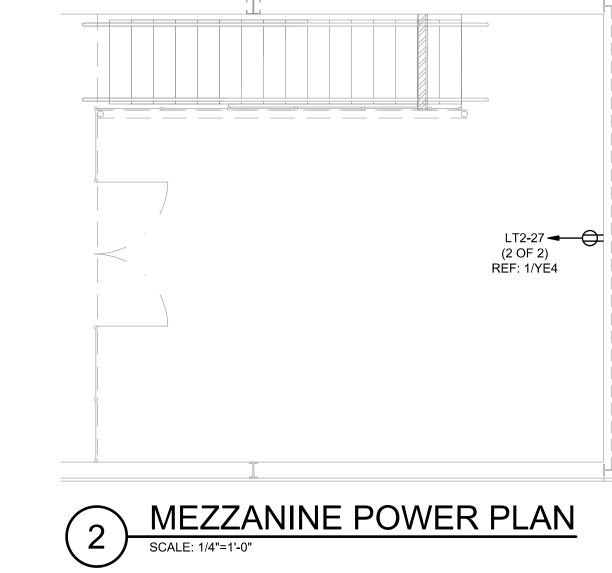


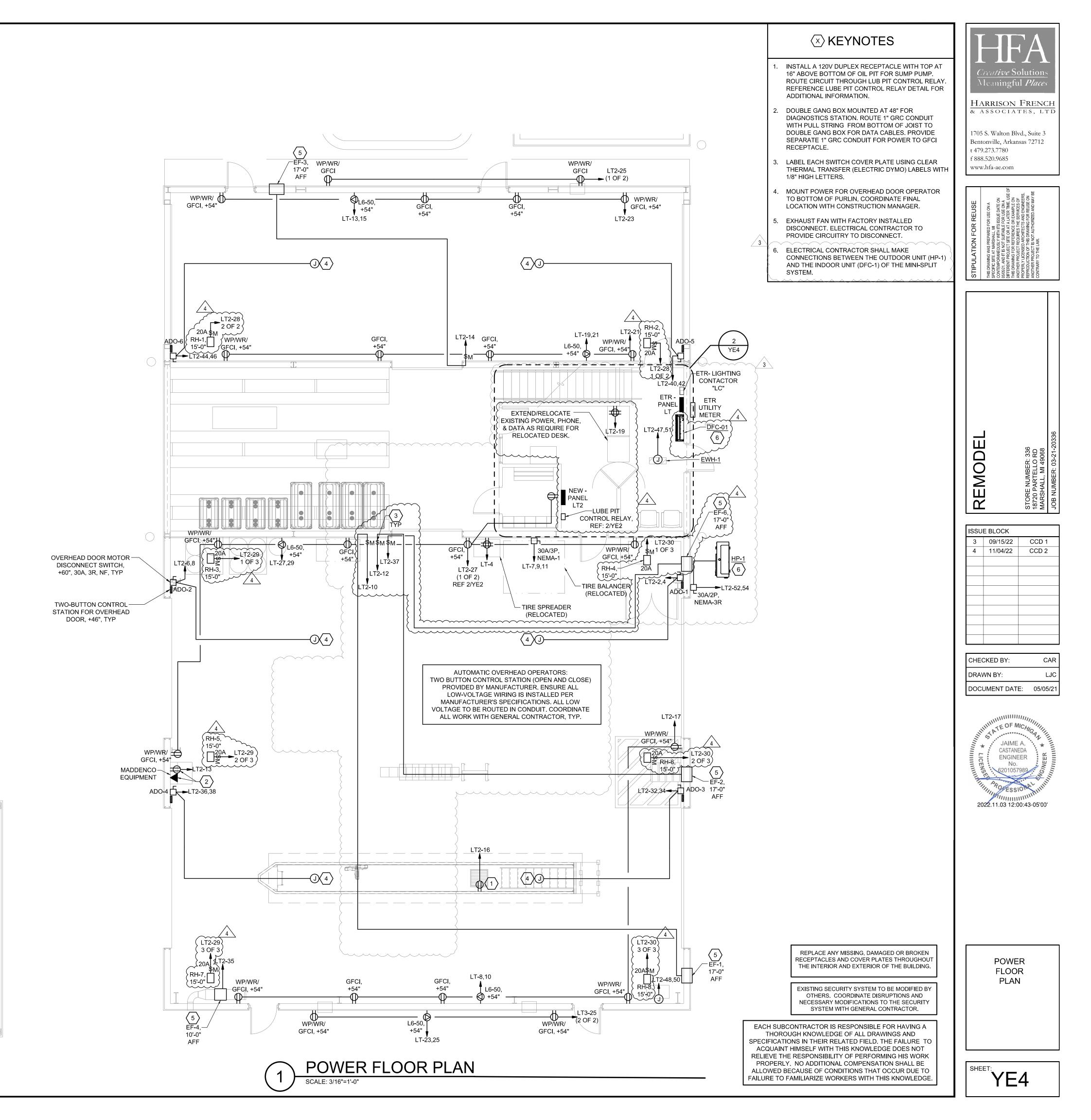
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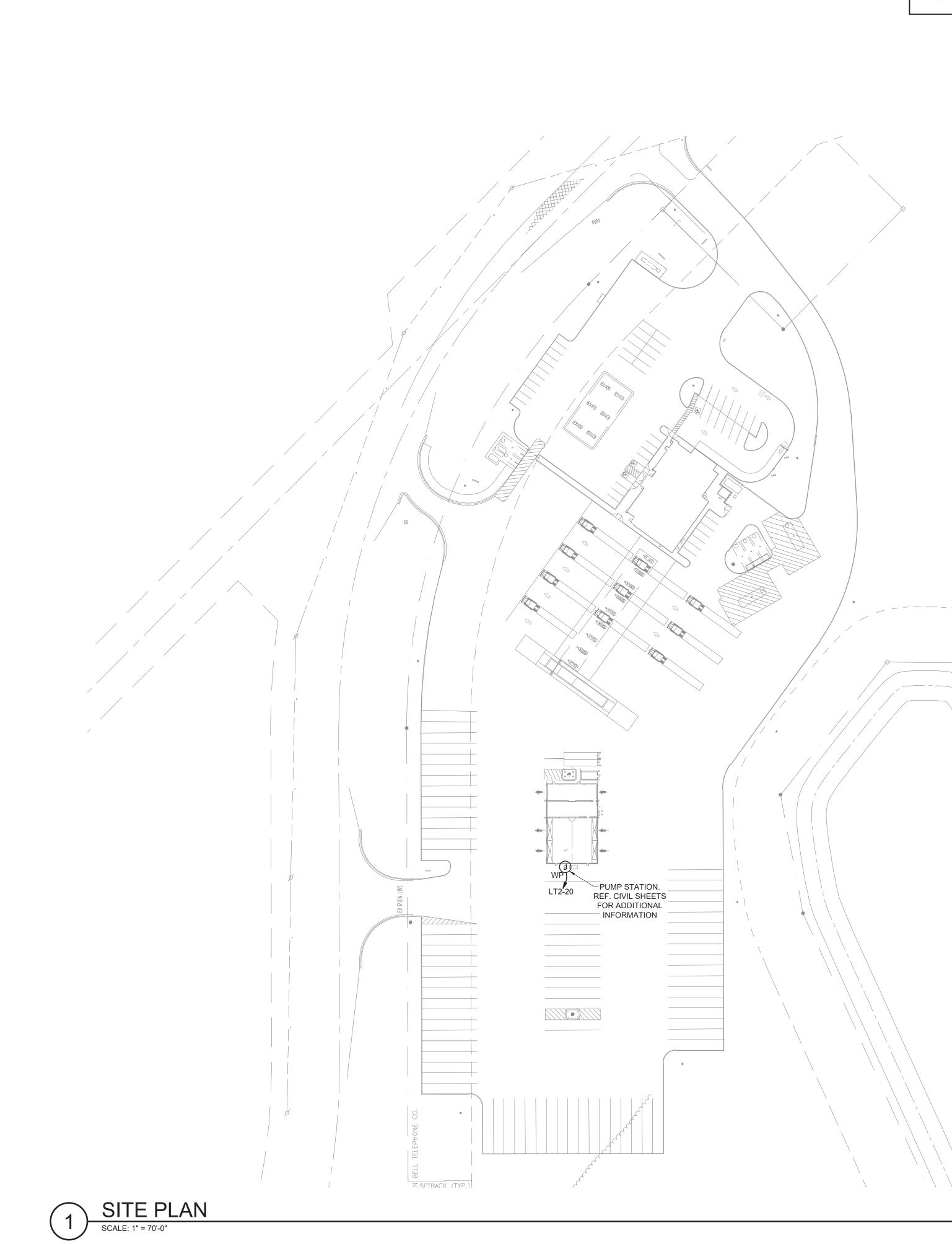
YE3

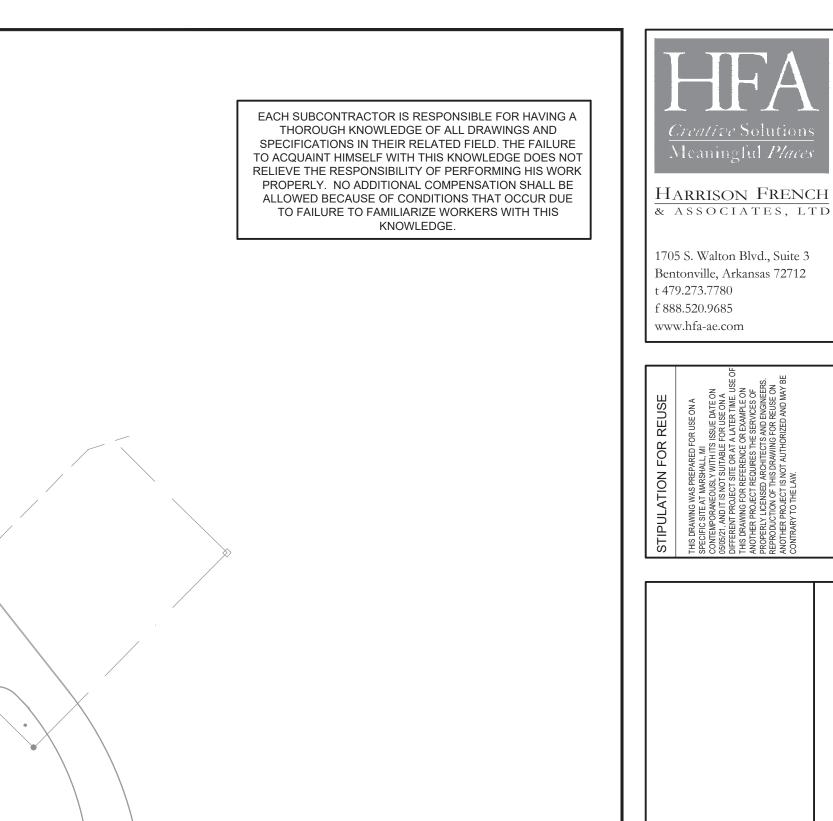
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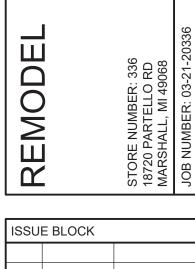












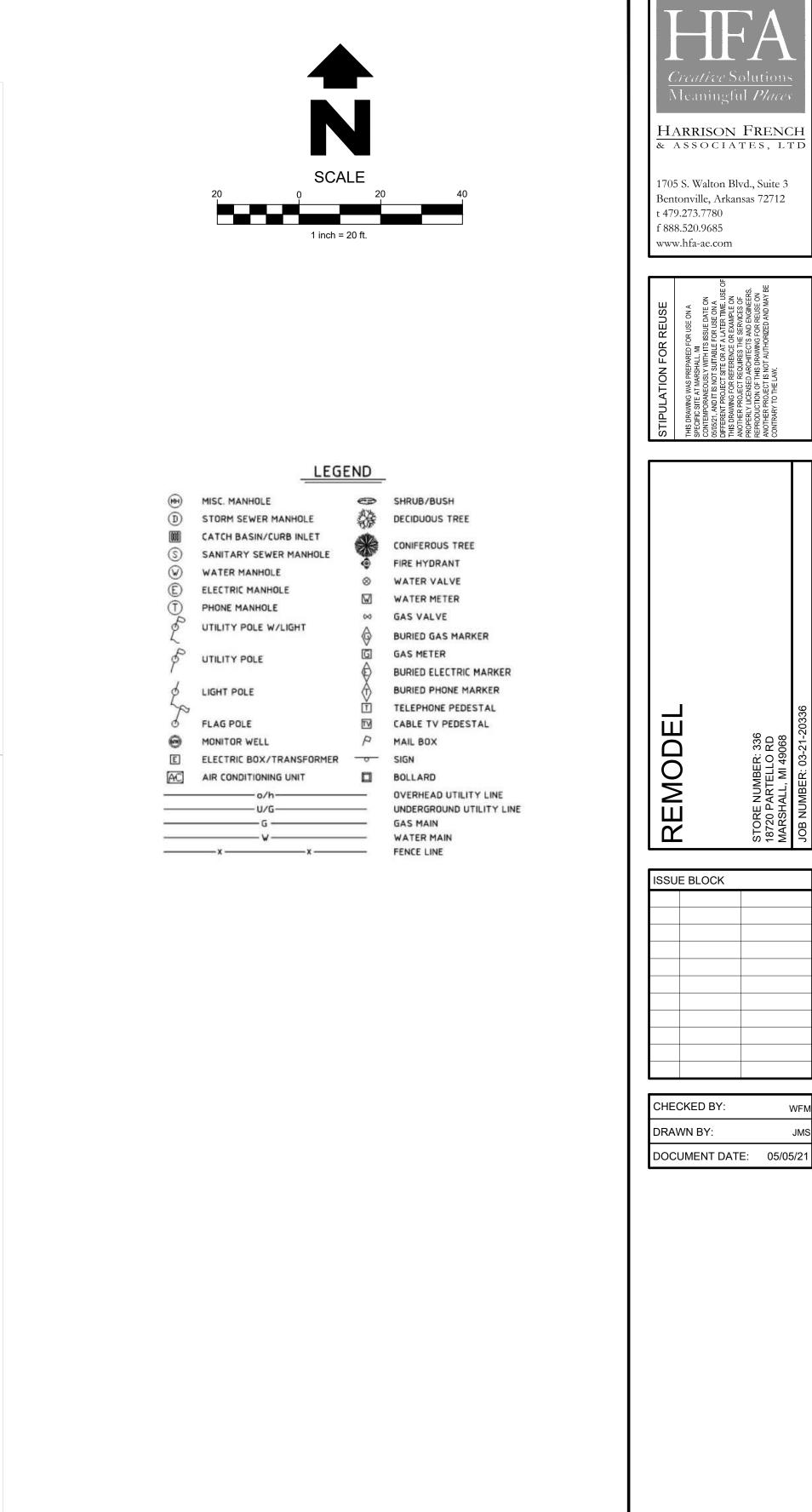
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DRAV	VN BY:	LJC

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



SITE POWER PLAN SHEET: YE5



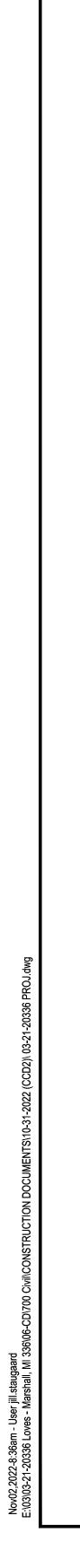


SURVEY PROVIDED BY: CRANE LAND SURVEYING, PC 14250 BEADLE LAKE ROAD STE 130 BATTLE CREEK, MI 49014

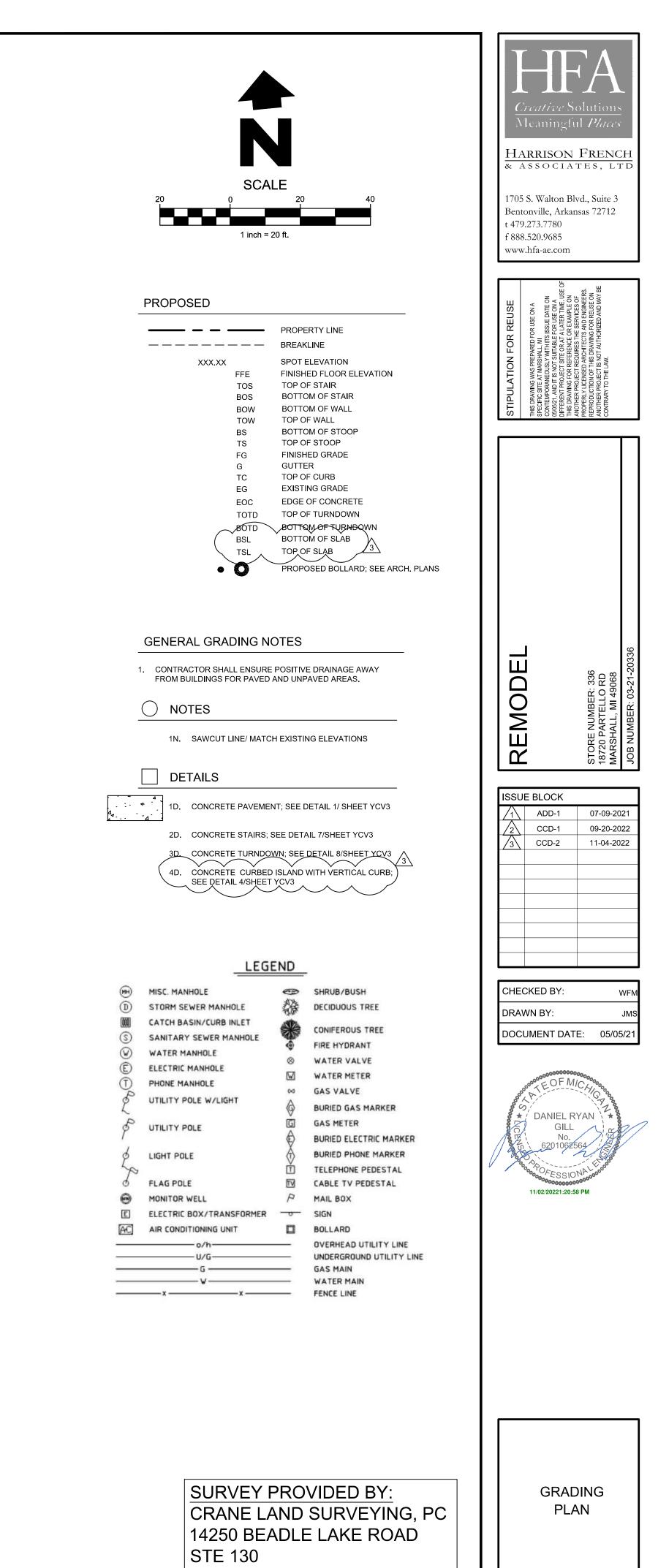
269-963-7977

EXISTING GRADES

SHEET: YCV1

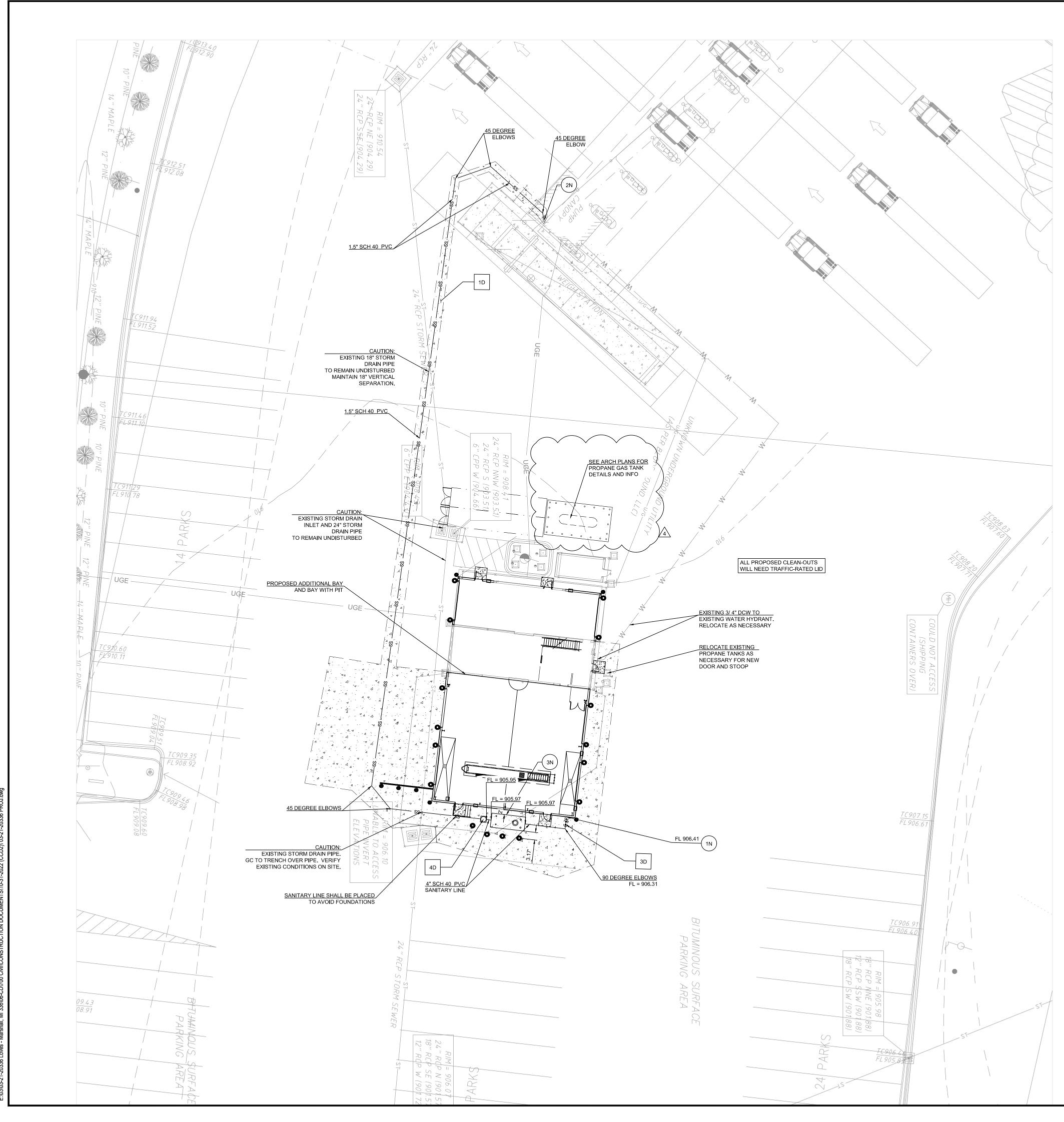






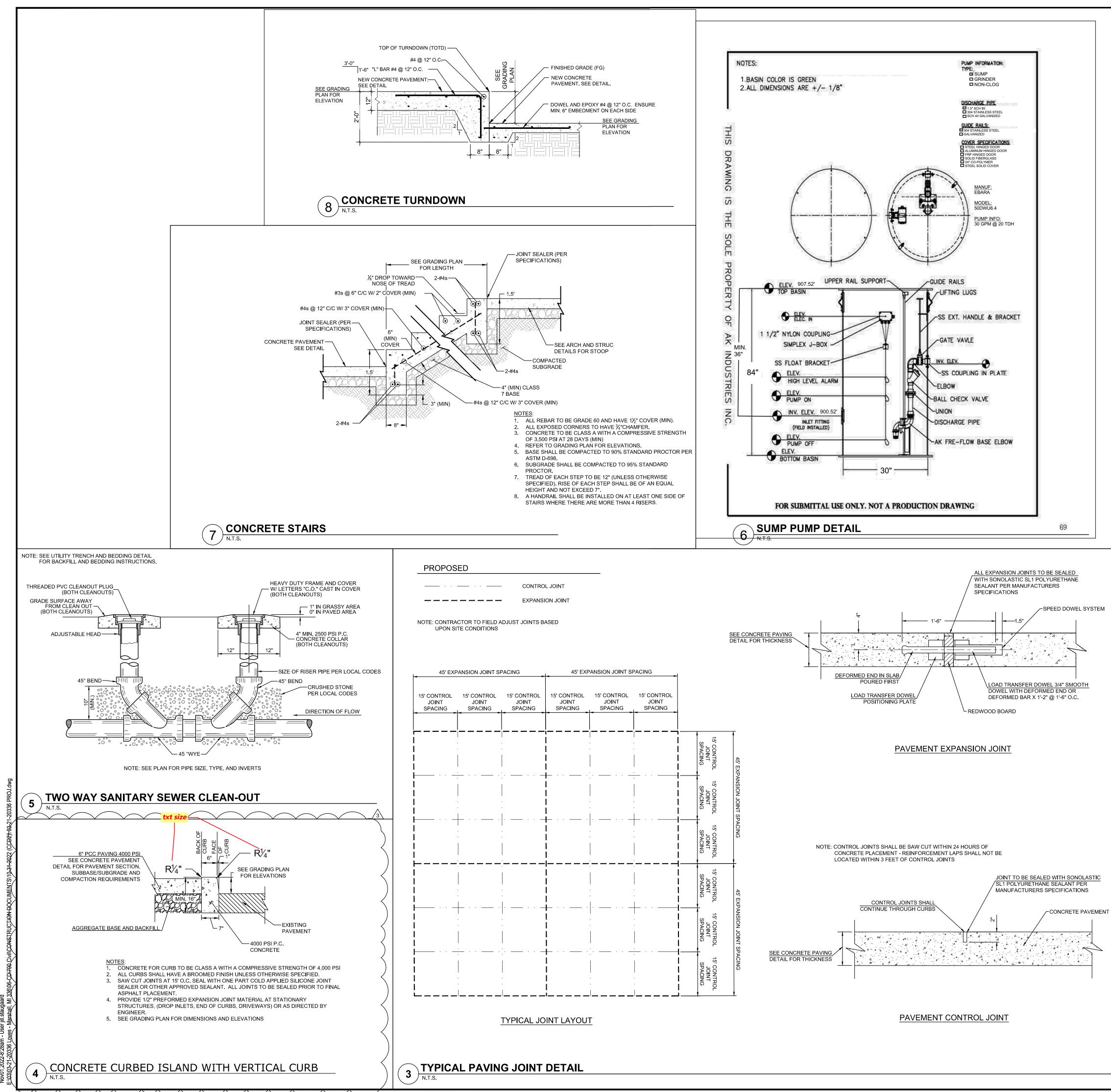
BATTLE CREEK, MI 49014 269-963-7977

SHEET: YCV2



w01,2022-8:27am - User jill.staugaard 03\03-21-20336 Loves - Marshall, MI 336\06-CD\700 Civil\CONSTRUCTION DOCUMENTS\10-31-2022 (CCD2)\ 03-21-20336 PROJ.

PROPOSED LEGEND PROPOSED LEGEND PROPOSED LEGEND PROPOSED LEGEND PROPOSED LEGEND PROPERTY LINE YSS PROPERTY LINE YSS SANITARY SEWER LINE Name of the set	CIEDEDTOIDED
Image: Distribution of the product of th	BODIE SUE BLOCK SUE BLOCK ADD-1 ADD-2 OCD-2 18,206 RUNNBER: 38 SUCE NUMBER: 38 MASHATICTO RD MASHATICTO RD MASHATICT
SURVEY PROVIDED BY: CRANE LAND SURVEYING, PC 14250 BEADLE LAKE ROAD STE 130 BATTLE CREEK, MI 49014 269-963-7977	UTILITY PLAN



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 TRENCH SHALL BE EXCAVATED BELOW GRADE REQUIRED TO PROVIDE A MINIMUM 36" OF PIPE COVER. T.PATCH UNDER PAVEMENT NTS. 	DETAILS SHEET



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 DetailAdd metal stud and R-13 annotations.

Detail 5 – OHD Jamb DetailAdd 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".

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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 SHCEDULE, & 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 PlanSheet 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 encloser 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 4th, 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:

- 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.

<u>CIVIL:</u> 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