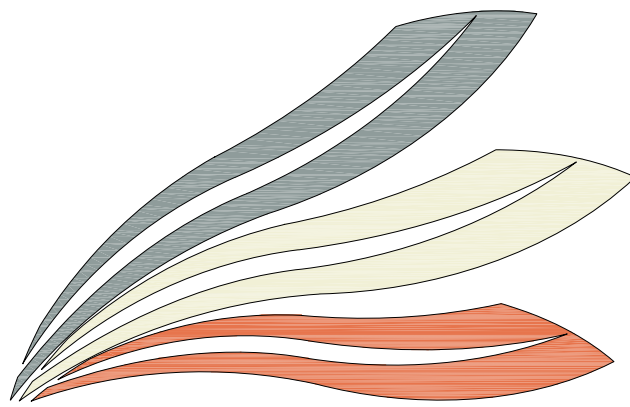


ST. LOUIS CATHOLIC
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MODULAR CAMPUS

1620 BANK ST.
LAKE CHARLES, LA

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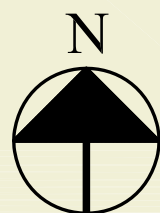


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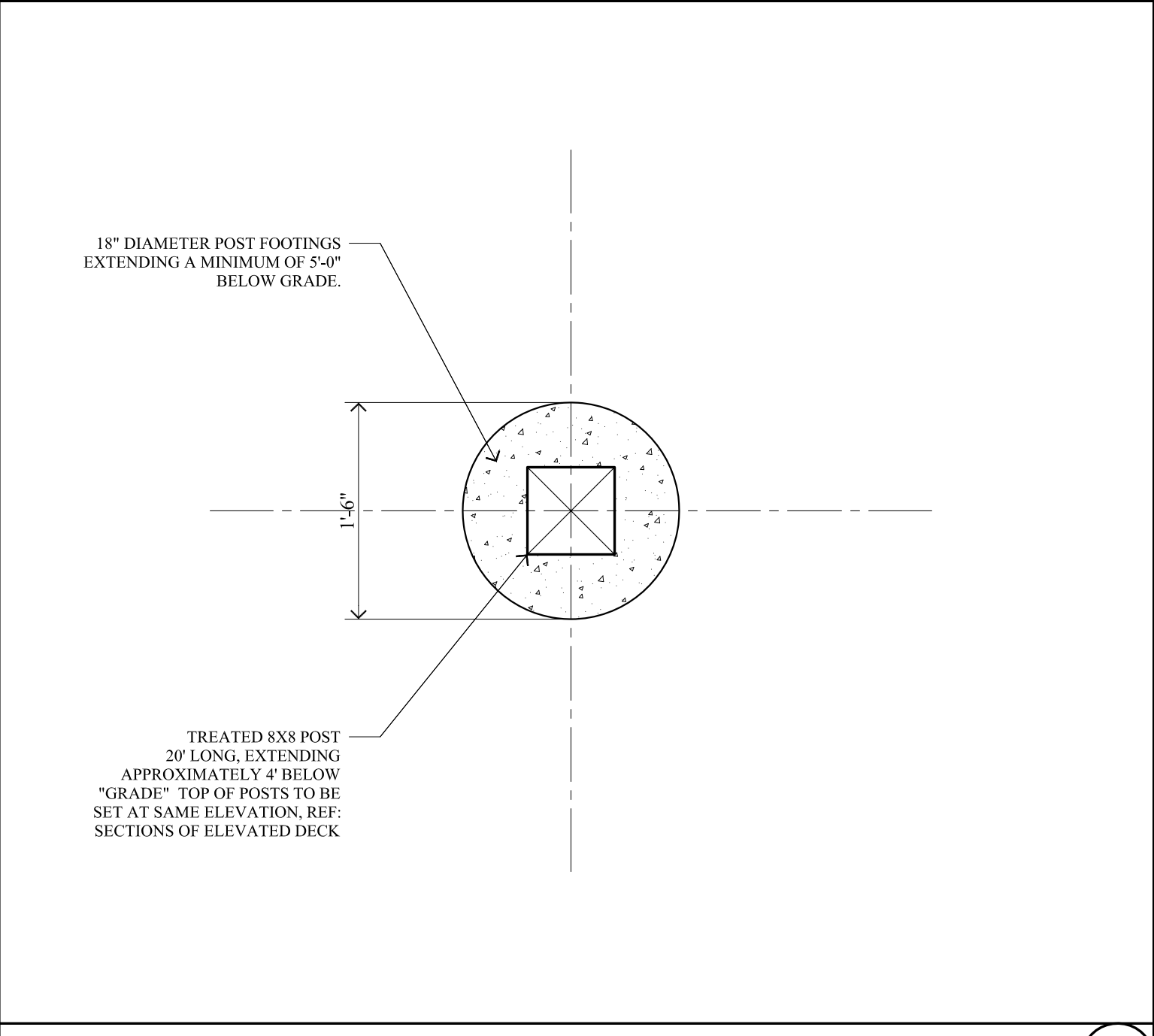
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SET #

PROJECT SITE



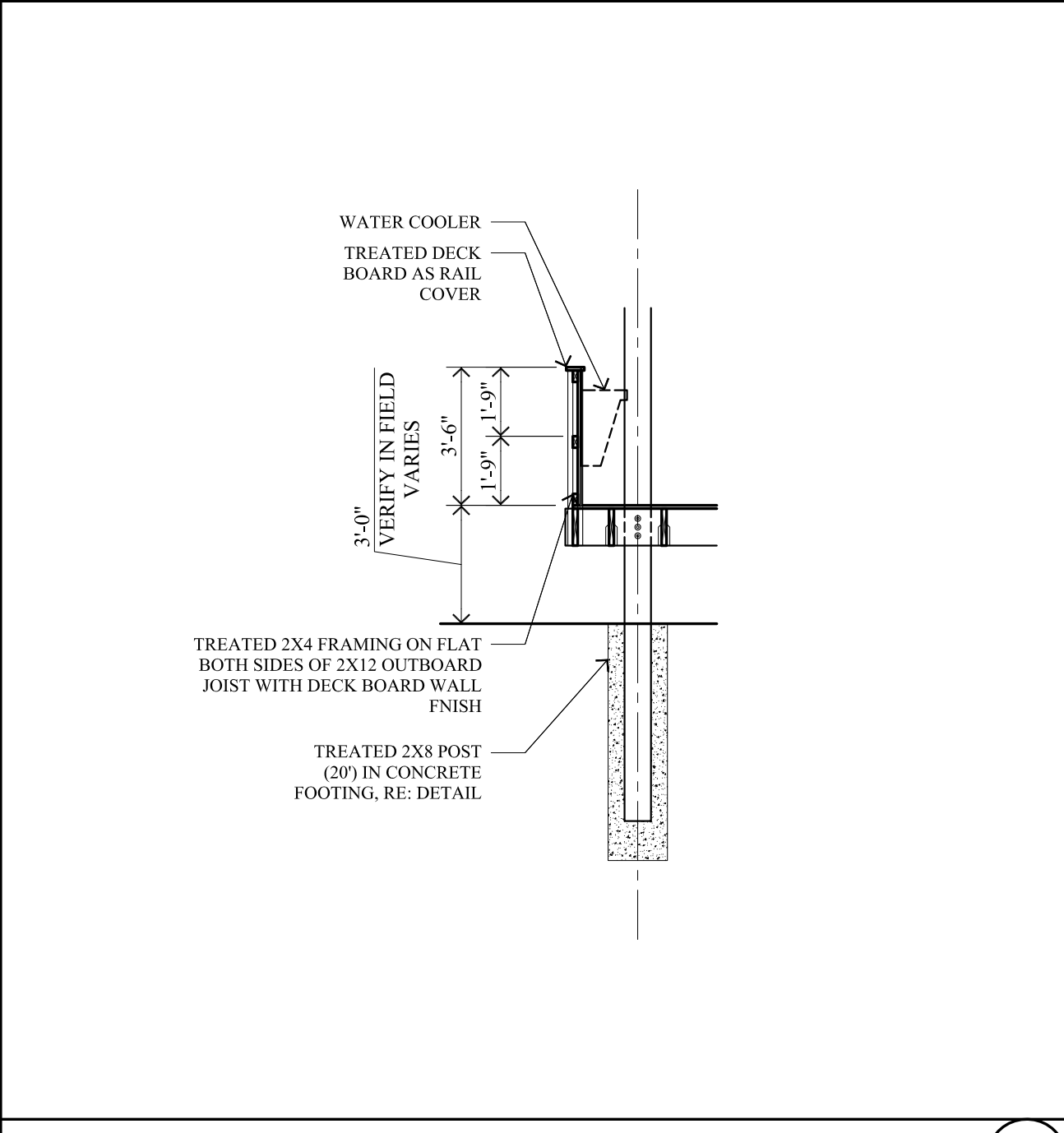




Typical Footing

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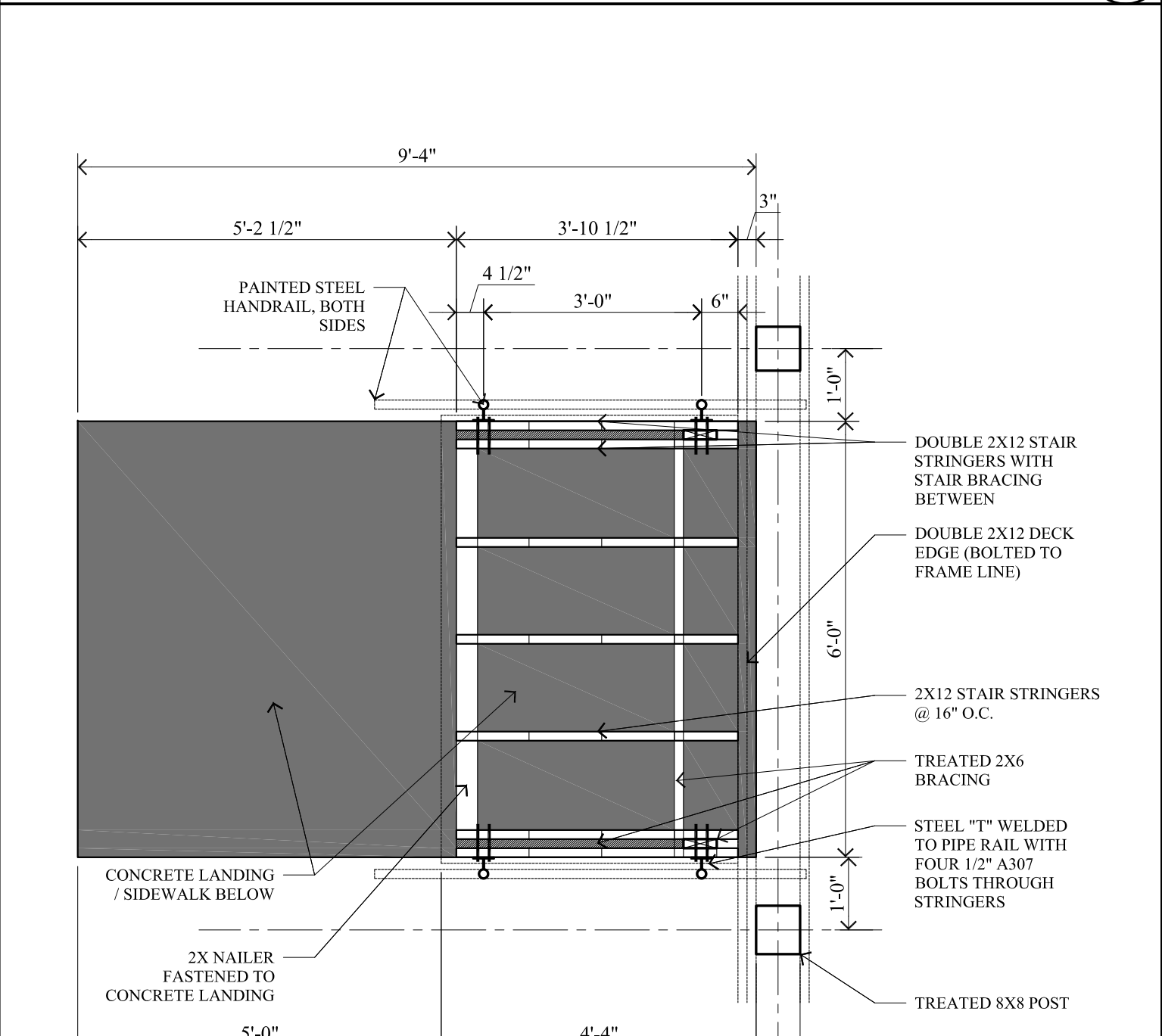
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"Wall" At Water Coolers

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

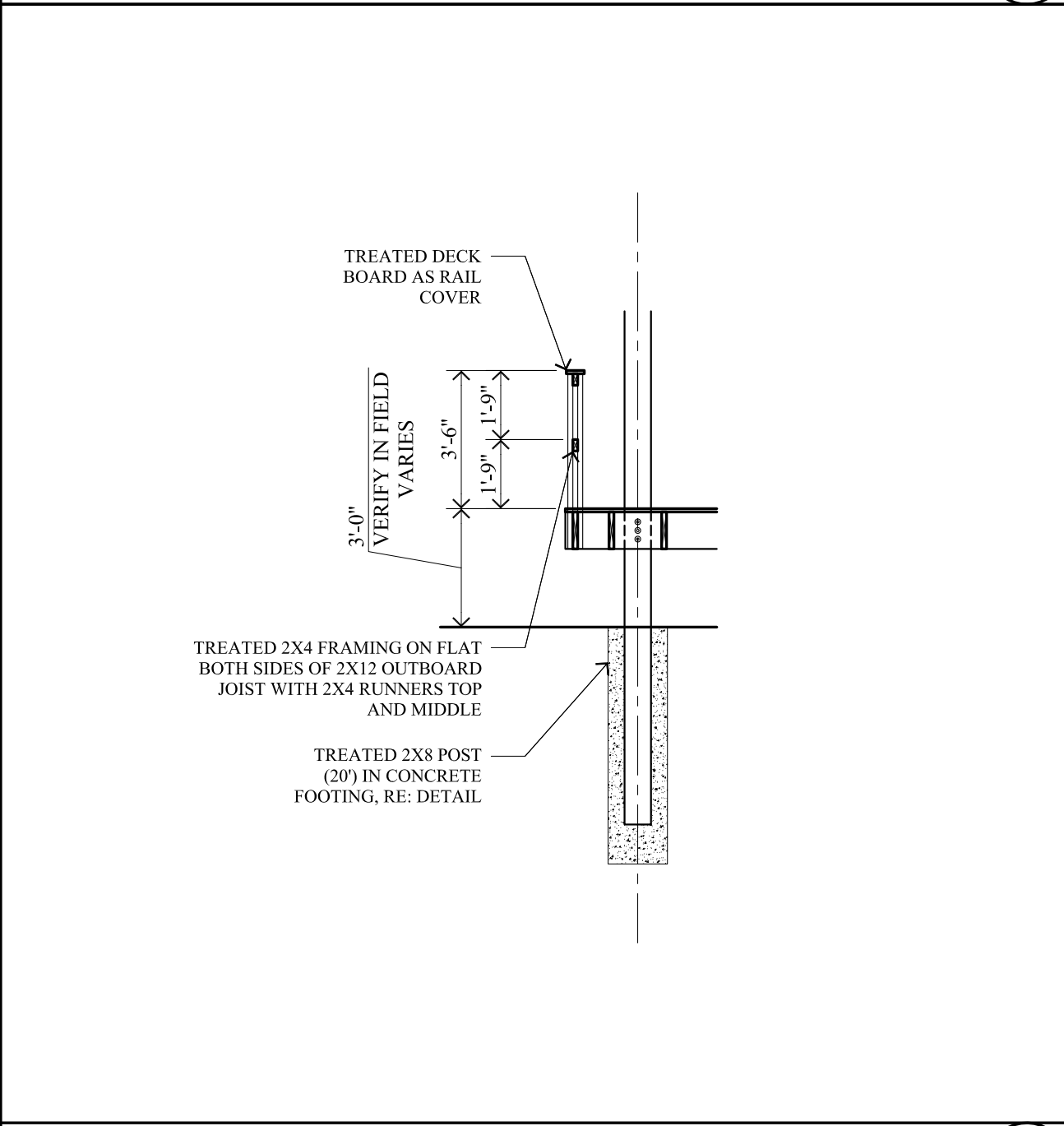
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Stair Detail

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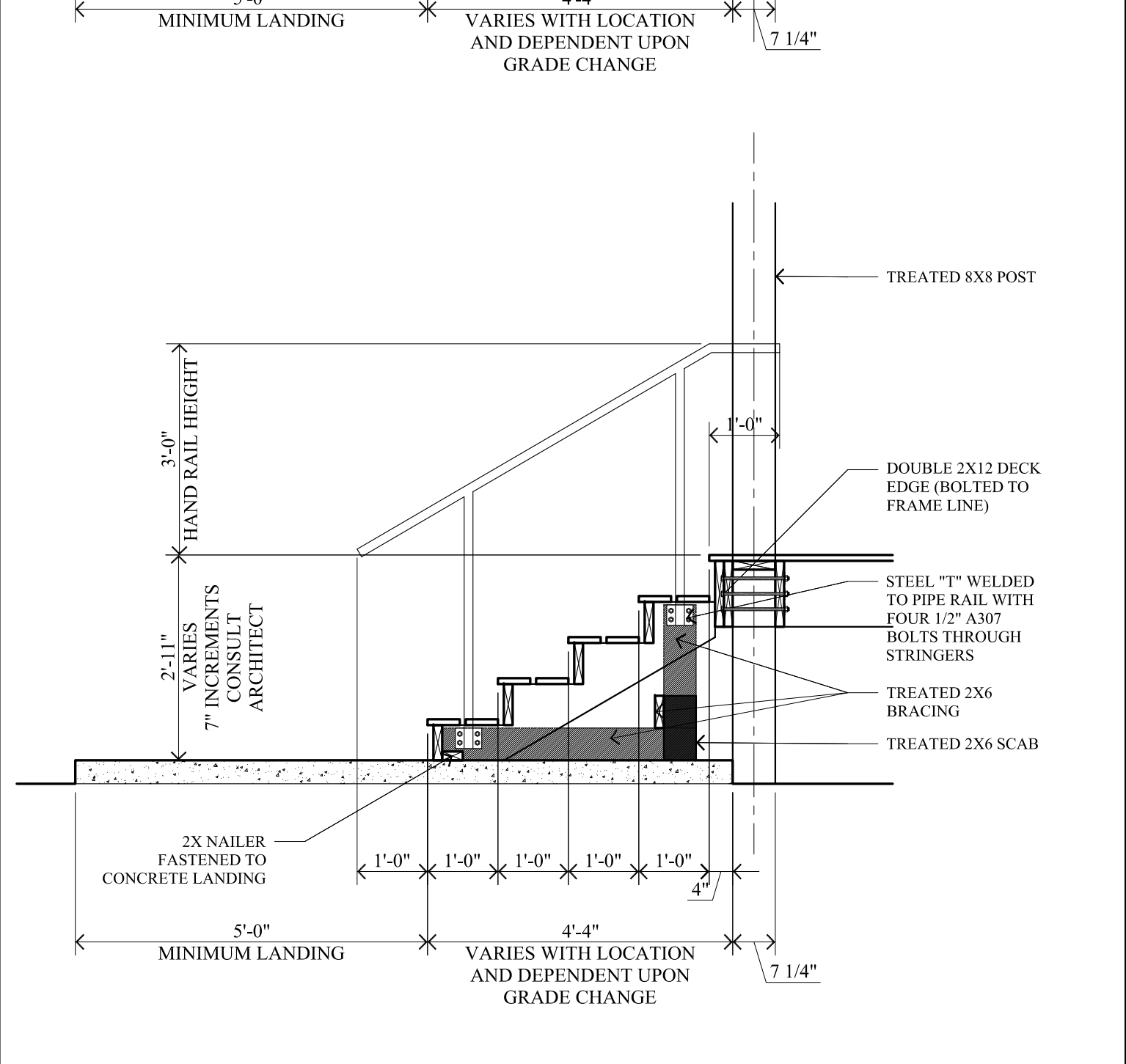
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Typical Rail

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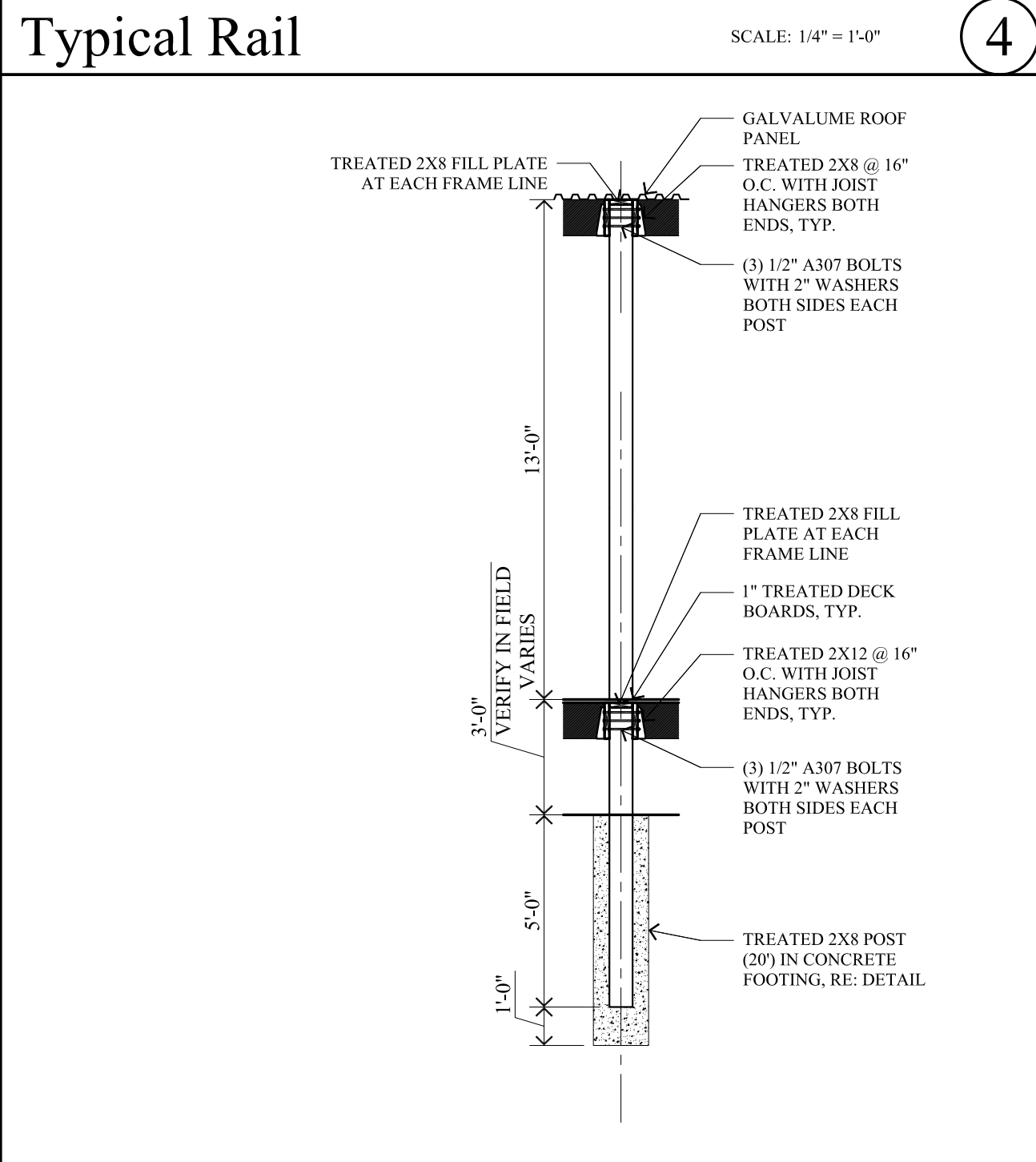
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Typical Frame Line

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

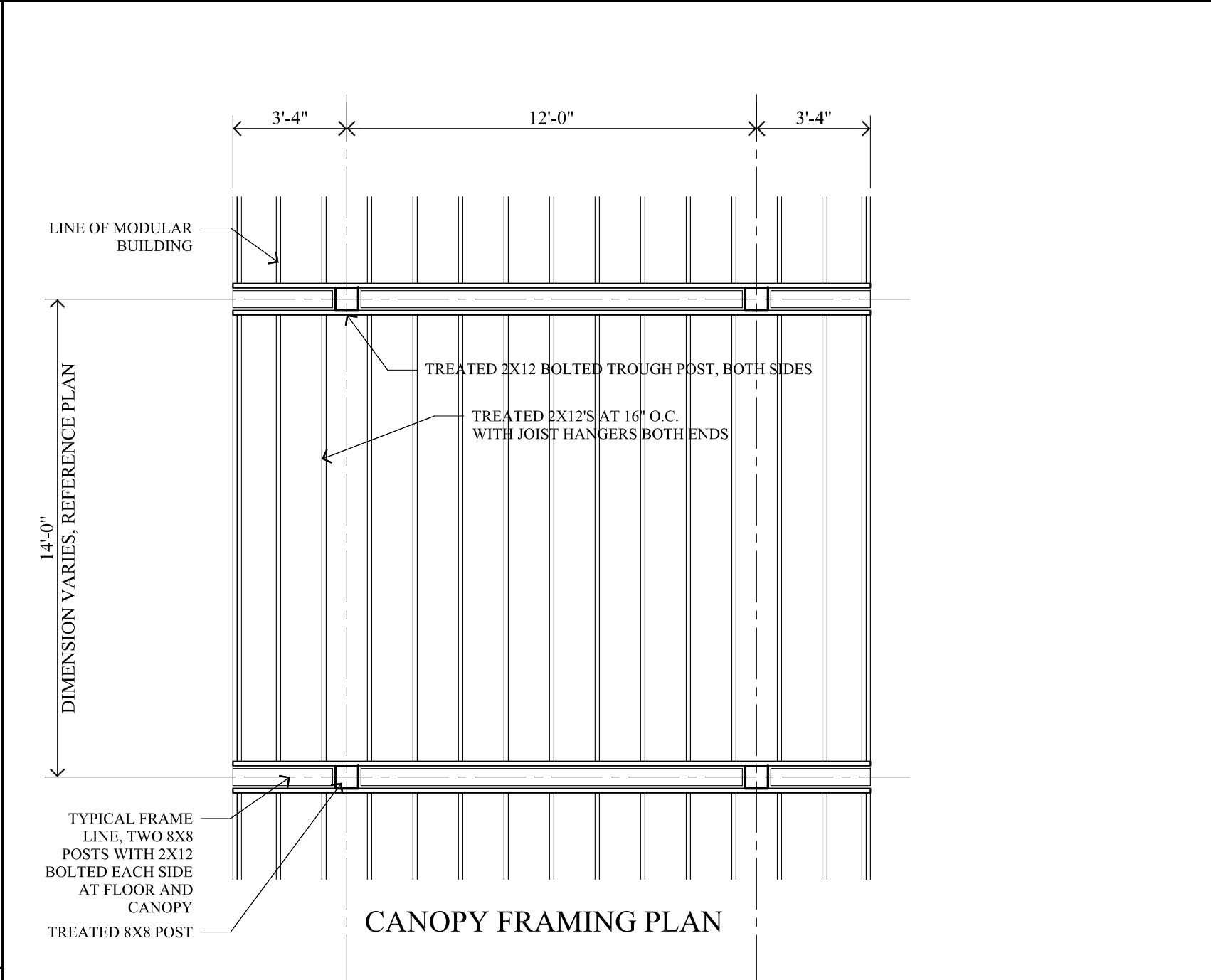
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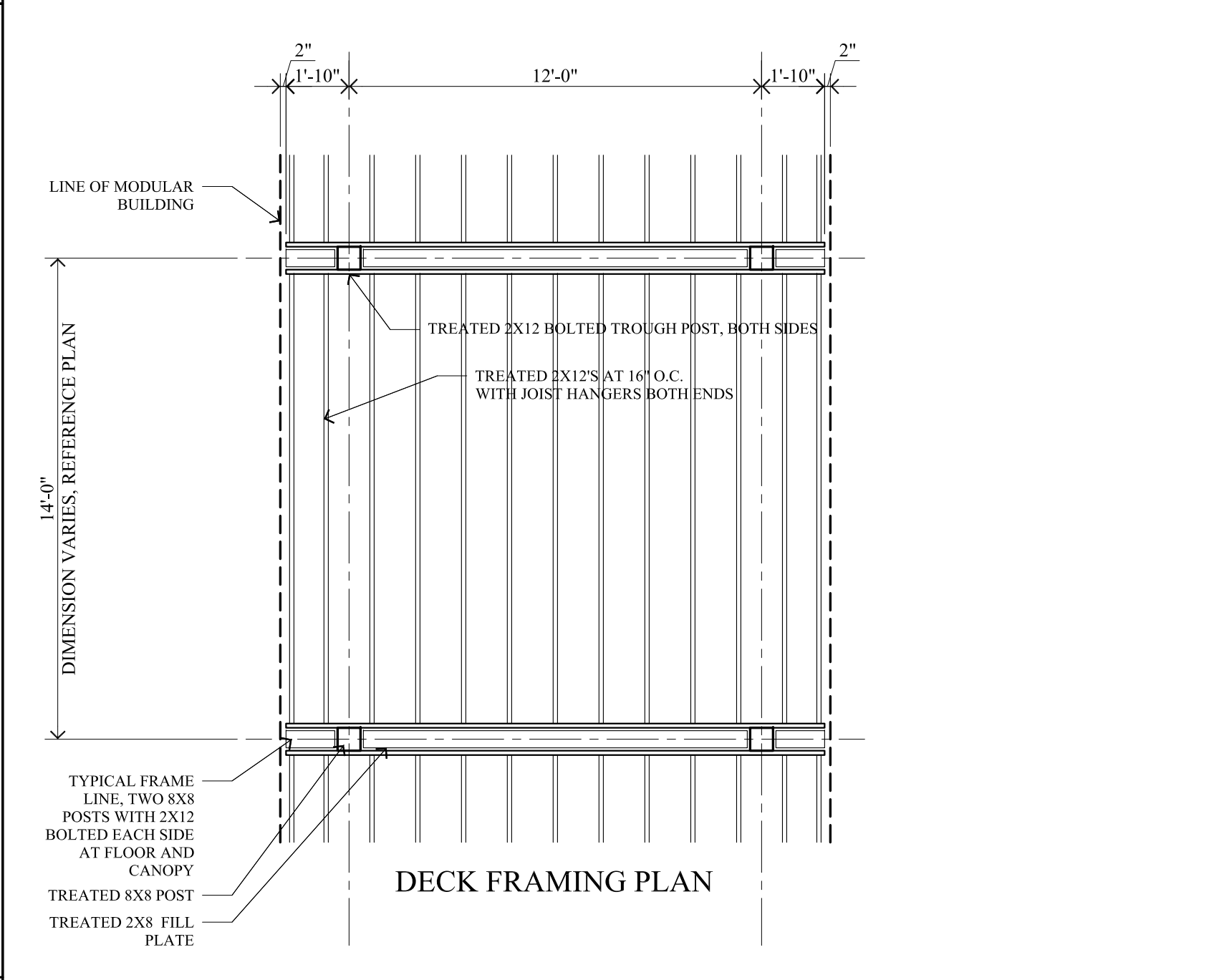
Main Elevated Deck Section

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

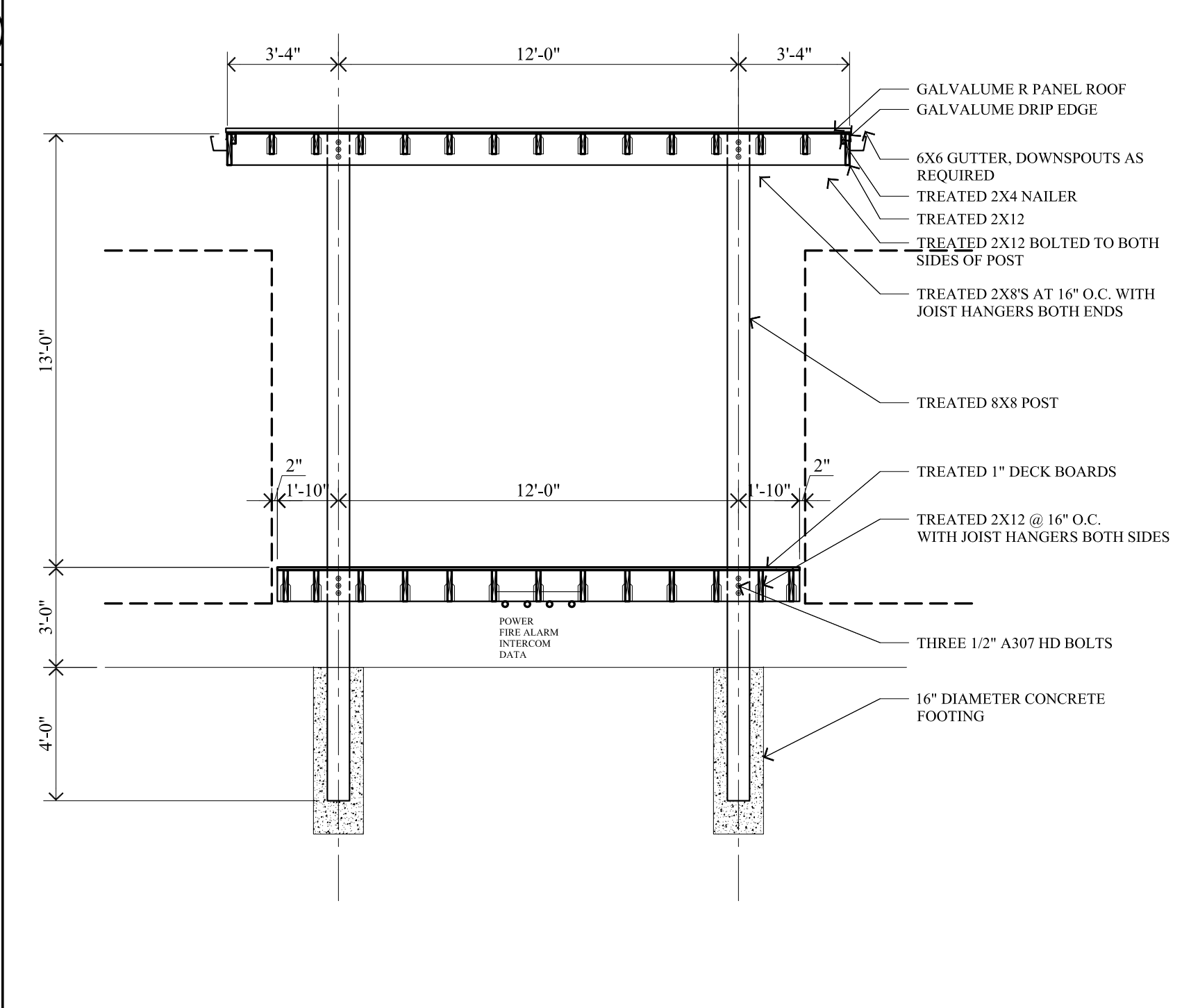
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CANOPY FRAMING PLAN



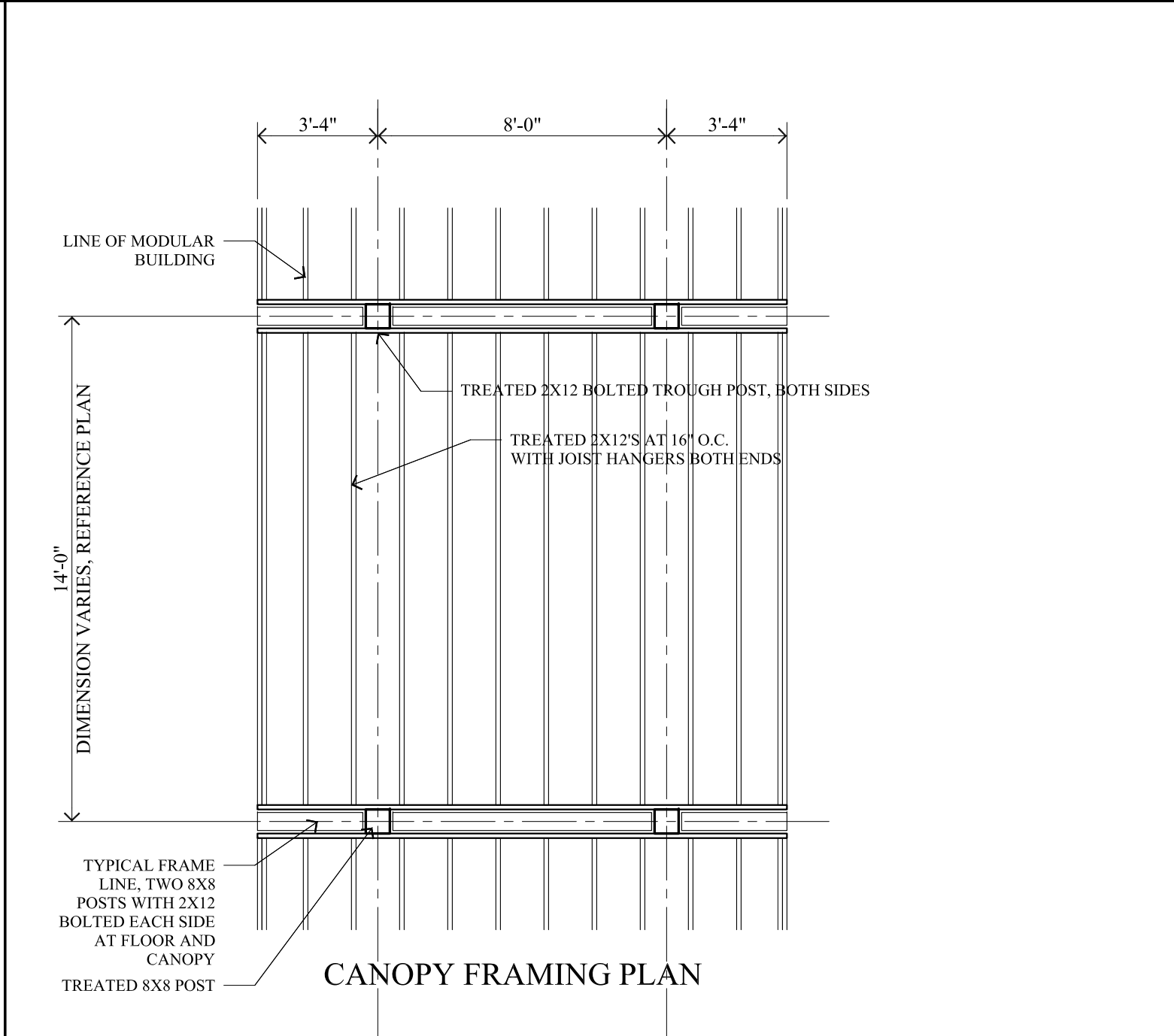
DECK FRAMING PLAN



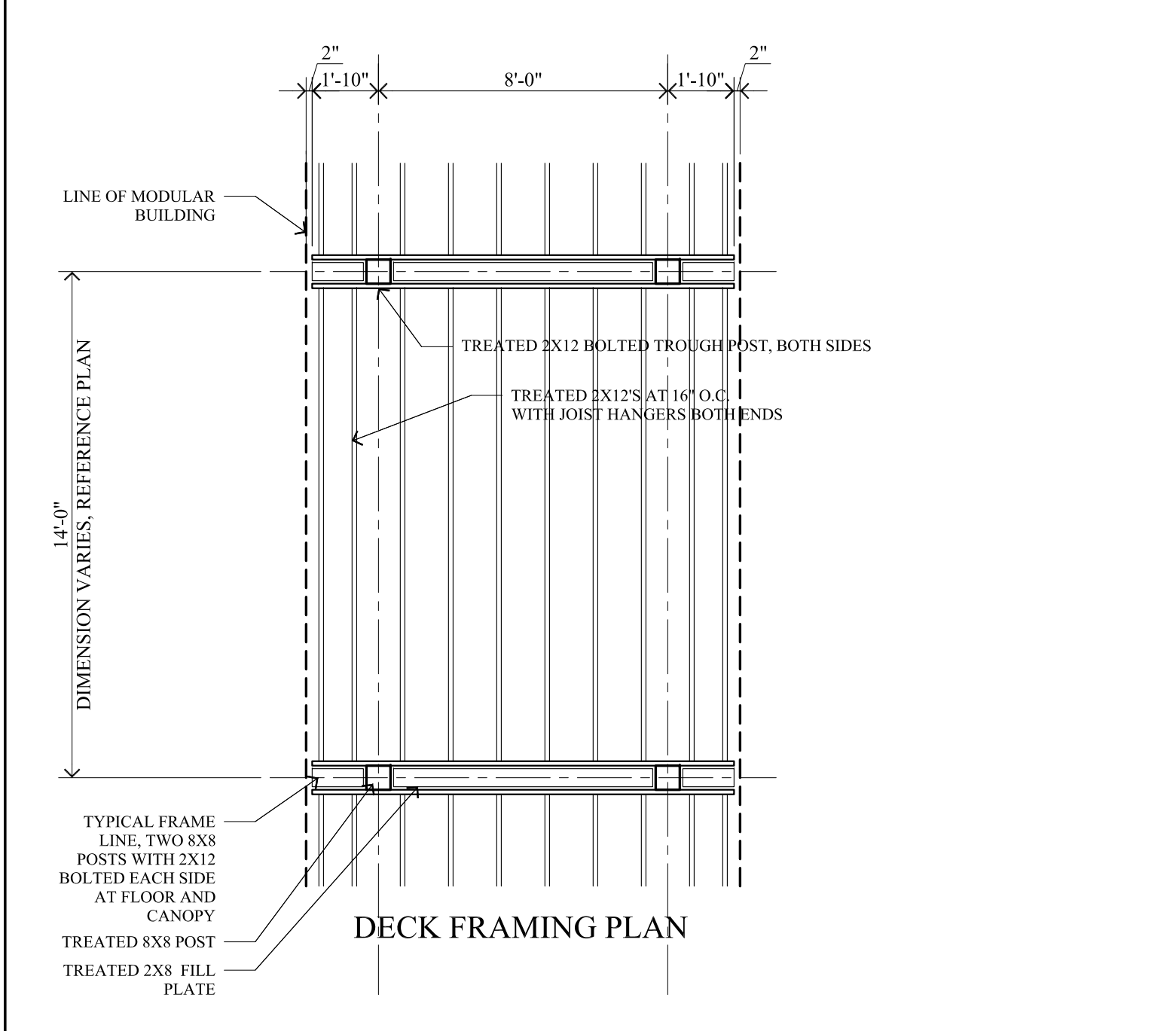
Secondary Elevated Deck Section

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

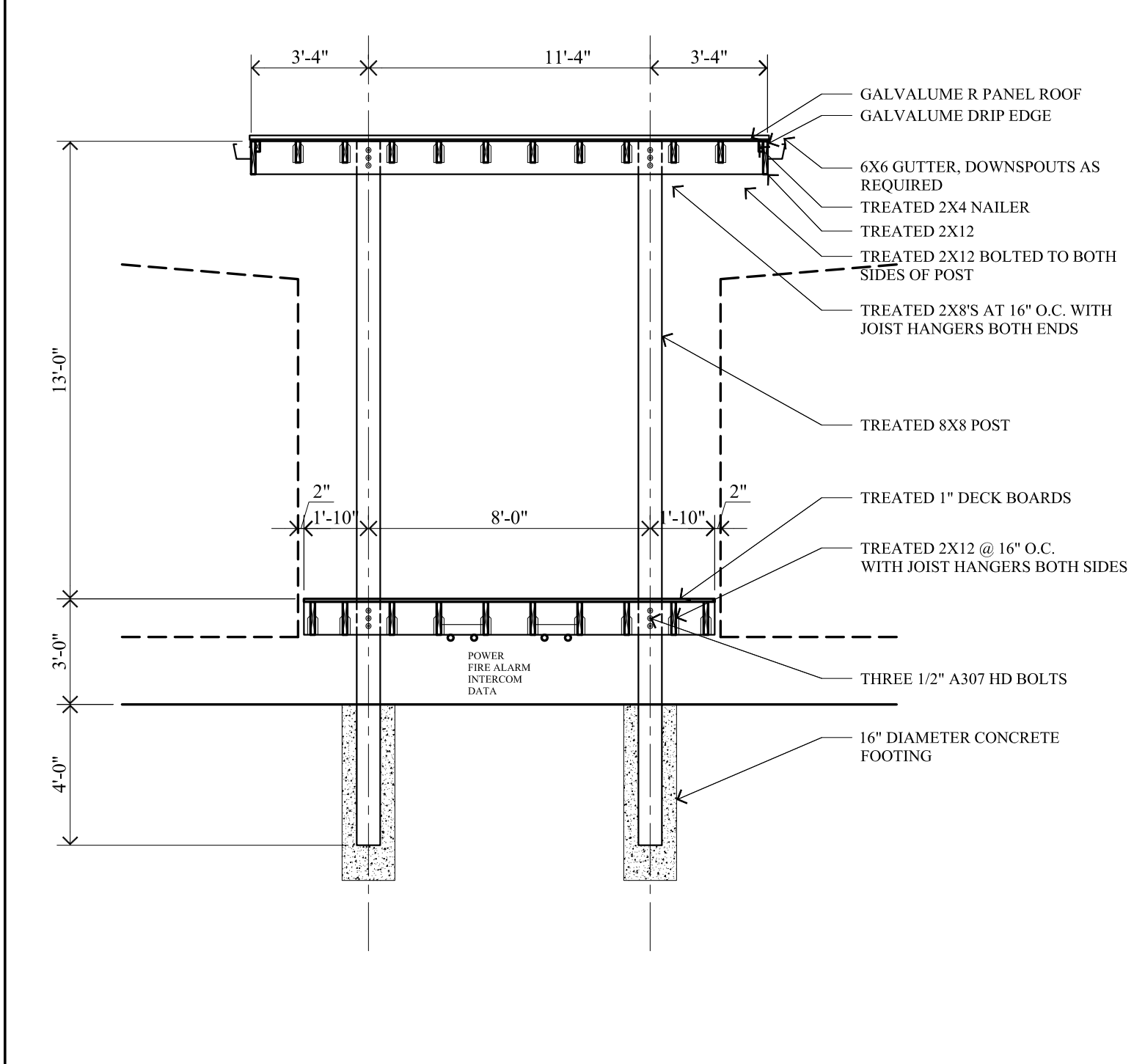
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CANOPY FRAMING PLAN



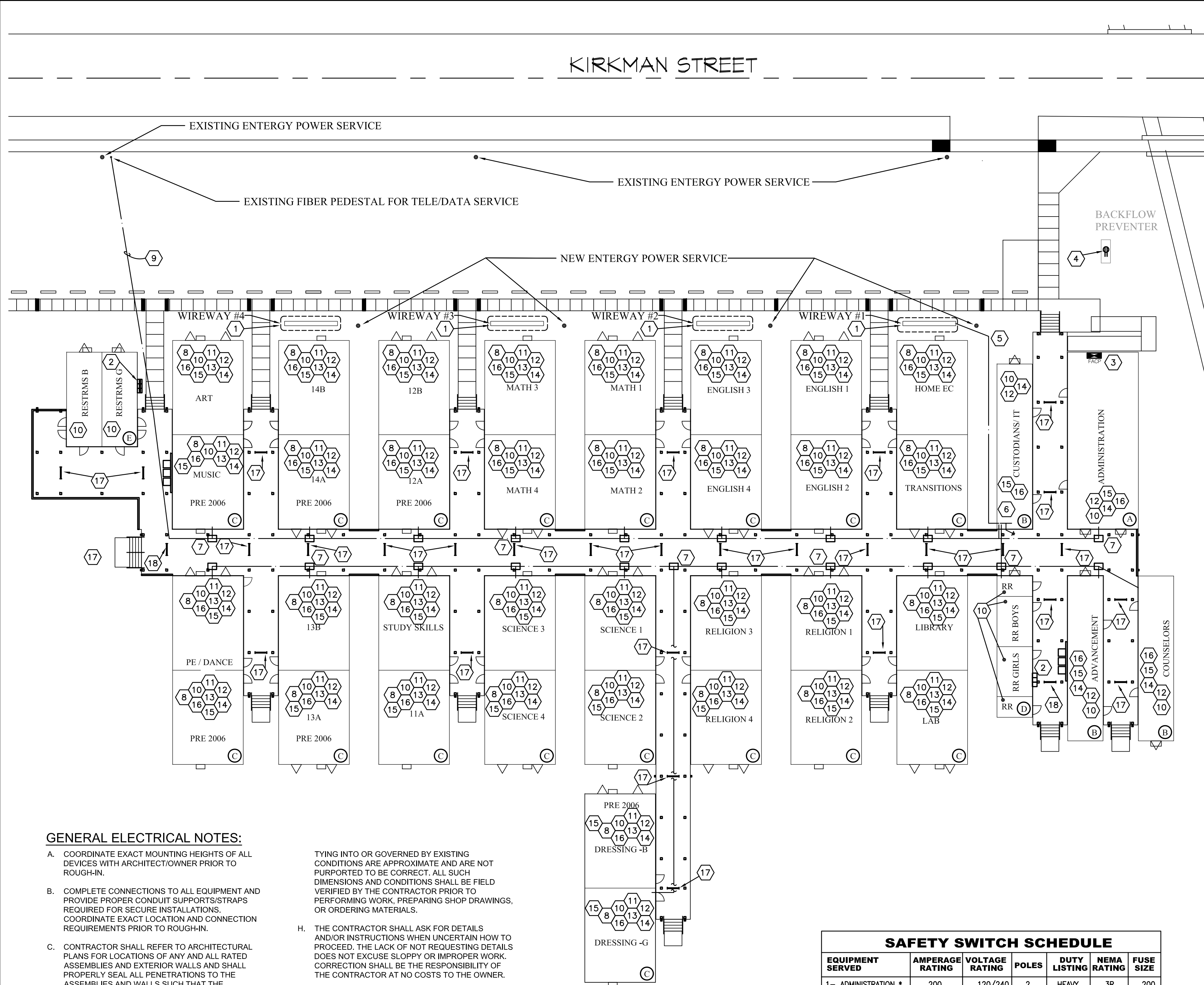
DECK FRAMING PLAN



Secondary Elevated Deck Section

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

7



GENERAL ELECTRICAL NOTES:

- A. COORDINATE EXACT MOUNTING HEIGHTS OF ALL DEVICES WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN.
- B. COMPLETE CONNECTIONS TO ALL EQUIPMENT AND PROVIDE PROPER CONDUIT SUPPORTS/STRAPS REQUIRED FOR SECURE INSTALLATIONS. COORDINATE EXACT LOCATION AND CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN.
- C. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF ANY AND ALL RATED ASSEMBLIES AND EXTERIOR WALLS AND SHALL PROPERLY SEAL ALL PENETRATIONS TO THE ASSEMBLIES AND WALLS SUCH THAT THE RATING(S) OF THE ASSEMBLIES AND BUILDING ENVELOPE ARE MAINTAINED.
- D. THE CONTRACTOR SHALL VISIT THE SITE AND THOROUGHLY FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS VERIFYING THAT THE WORK CAN BE PERFORMED AS DESCRIBED IN THESE DEMOLITION DRAWINGS, PRIOR TO SUBMITTING A BID.
- E. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL LOCATE ALL WORK TO REMAIN, INCLUDING, BUT NOT LIMITED TO PLUMBING, HVAC, ELECTRICAL, STRUCTURAL AND ARCHITECTURAL, AND SHALL PROTECT SUCH WORK FROM DAMAGE DURING DEMOLITION AND NEW CONSTRUCTION.
- F. THE CONTRACTOR SHALL AT ALL TIMES CONSULT WITH THE ARCHITECT AND FOLLOW DIRECTIVES ISSUED BY THE ARCHITECT WHICH WILL ENSURE THE CONTINUED SAFE FUNCTIONING OF THE OWNER'S OPERATIONS. THE CONTRACTOR SHALL MINIMIZE ENCUMBRANCES TO THE OWNER'S OPERATIONS AT ALL TIMES AND SHALL NOTIFY THE ARCHITECT OF ANY WORK AFFECTING THE OPERATION OF THE OWNER AT LEAST THREE DAYS PRIOR TO PERFORMING SAID WORK.
- G. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCING CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATION. DIMENSIONS AND CONDITIONS

- TYING INTO OR GOVERNED BY EXISTING CONDITIONS ARE APPROXIMATE AND ARE NOT PURPORTED TO BE CORRECT. ALL SUCH DIMENSIONS AND CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO PERFORMING WORK, PREPARING SHOP DRAWINGS, OR ORDERING MATERIALS.
- H. THE CONTRACTOR SHALL ASK FOR DETAILS AND/OR INSTRUCTIONS WHEN UNCERTAIN HOW TO PROCEED. THE LACK OF NOT REQUESTING DETAILS DOES NOT EXCUSE SLOPPY OR IMPROPER WORK. CORRECTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO COSTS TO THE OWNER.
- I. CONTRACTOR SHALL REFER TO ALL OTHER PORTIONS OF THE CONTRACT DOCUMENTS (PLANS, SPECIFICATIONS, ADDENDA, ARCHITECTURAL SUPPLEMENTAL INSTRUCTIONS AND ANY APPROVED CHANGE ORDERS) AND PROVIDE ALL LIGHT FIXTURES, OUTLETS, TELE/DATA OUTLETS, SPEAKERS, AND ASSOCIATED CIRCUITRY AS IF ORIGINALLY INCLUDED ON THE ELECTRICAL PLANS. IF THERE ARE ANY DISCREPANCIES, CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER IN WRITING PRIOR TO ORDERING EQUIPMENT, ROUGH-IN FOR EQUIPMENT AND/OR INSTALLATION OF EQUIPMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING COPIES OF APPROVED SHOP DRAWINGS OF SUCH EQUIPMENT AND REVIEWING SAID SUBMITTALS TO ENSURE COMPATIBILITY WITH THE ELECTRICAL SYSTEM. CONTRACTOR SHALL IMMEDIATELY NOTIFY ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BETWEEN THE REQUIRED ROUGH-IN REQUIREMENTS AND THE ELECTRICAL SYSTEM.
- J. AS A MINIMUM, ALL ELECTRICAL WORK SHALL COMPLY WITH THE 2017 EDITION OF THE NATIONAL ELECTRICAL CODE.

SAFETY SWITCH SCHEDULE						
EQUIPMENT SERVED	AMPERAGE RATING	VOLTAGE RATING	POLES	DUTY LISTING	NEMA RATING	FUSE SIZE
1- ADMINISTRATION *	200	120/240	2	HEAVY	3R	200
2- CUSTODIANS/IT *	100	120/240	2	HEAVY	3R	100
3- TRANSITIONS *	200	120/240	2	HEAVY	3R	200
4- ENGLISH 2 *	200	120/240	2	HEAVY	3R	200
5- ENGLISH 4 *	200	120/240	2	HEAVY	3R	200
6- COUNSELORS *	100	120/240	2	HEAVY	3R	100
7- ADVANCEMENT *	100	120/240	2	HEAVY	3R	100
8- RESTROOMS *	100	120/240	2	HEAVY	3R	100
9- LAB *	200	120/240	2	HEAVY	3R	200
10- RELIGION 2 *	200	120/240	2	HEAVY	3R	200
11- RELIGION 4 *	200	120/240	2	HEAVY	3R	200
12- DRESSING G *	200	120/240	2	HEAVY	3R	200
13- SCIENCE 2 *	200	120/240	2	HEAVY	3R	200
14- SCIENCE 4 *	200	120/240	2	HEAVY	3R	200
15- 11A *	200	120/240	2	HEAVY	3R	200
16- 13A *	200	120/240	2	HEAVY	3R	200
17- PE/DANCE *	200	120/240	2	HEAVY	3R	200
18- MATH 2 *	200	120/240	2	HEAVY	3R	200
19- MATH 4 *	200	120/240	2	HEAVY	3R	200
20- 12A *	200	120/240	2	HEAVY	3R	200
21- 14A *	200	120/240	2	HEAVY	3R	200
22- MUSIC *	200	120/240	2	HEAVY	3R	200
23- RESTROOMS *	200	120/240	2	HEAVY	3R	200

* SERVICE ENTRANCE RATED

ELECTRICAL KEYNOTES:

- 1 SEE SHEET E2.0 FOR DISCONNECT LAYOUT ON RISER DIAGRAM. CONDUITS SHALL BE RUN FROM EACH DISCONNECT BELOW RAISED DECK TO TERMINATION POINT AT RESPECTIVE PORTABLE BUILDING. SEE SAFETY SWITCH SCHEDULE ON THIS SHEET FOR ALLOCATION OF LABELED DISCONNECTS TO APPROPRIATE PORTABLE BUILDING. CONTRACTOR SHALL COORDINATE TERMINATION REQUIREMENTS WITH PORTABLE BUILDING MANUFACTURER PRIOR TO ROUGH IN.
- 2 INSTALL A WEATHERPROOF RECEPTACLE INSIDE THE FRAME OF EACH WATER COOLER. EXTEND #12 THHN, #12G, 1/2" FROM EACH OF THE THREE WATER COOLERS TO A NEW 20 AMP GFI CIRCUIT BREAKER IN NEAREST PORTABLE BUILDING PANEL.
- 3 EXTEND #12 THHN, #12G, 1/2" FROM FIRE ALARM CONTROL PANEL TO A NEW 20 AMP CIRCUIT BREAKER IN NEAREST PORTABLE BUILDING PANEL. CIRCUIT BREAKER SHALL BE RED AND BE PROVIDED WITH A BREAKER LOCK IN THE "ON" POSITION.
- 4 PROVIDE A WEATHERPROOF RECEPTACLE ON A FREE STANDING RACK INSIDE BACKFLOW PREVENTER ENCLOSURE. EXTEND #10 THHN, #10G, 3/4" FROM BACKFLOW PREVENTER HEATER RECEPTACLE TO A NEW SINGLE 20 AMP CIRCUIT BREAKER IN PANEL HP.
- 5 INSTALL TWO 2" CONDUITS WITH PULL STRINGS FROM SERVICE RACK TO DATA/COM RACK IN I.T. ROOM.
- 6 COORDINATE LOCATION OF DATA/COM RACK WITH OWNER PRIOR TO ROUGH IN. PROVIDE GROUND BAR PER DETAIL ON SHEET E3.0. CONNECT GROUND BAR TO MAIN SERVICE GROUND.
- 7 EXTEND ONE 2" CONDUIT BELOW THE ELEVATED WALKWAY FROM THE I.T. RACK TO EACH ROW (2 ROWS TOTAL) OF BUILDINGS. INSTALL A 12"x12"x6" DEEP NEMA 3R JUNCTION BOX BELOW THE ELEVATED WALKWAY FROM THE I.T. RACK AT EACH BUILDING. (TYPICAL)
- 8 INSTALL 2" CONDUIT (BY THE ELECTRICIAN) INSTALLED IN THE BACK CORNER OF EACH CLASSROOM CLOSET EXTENDING UP 12" ABOVE FINISHED FLOOR.
- 9 2" CONDUIT (BY THE ELECTRICIAN) INSTALLED FROM THE PEDESTAL ON SITE AT KIRKMAN, TO BETWEEN THE ART AND RESTROOM TRAILER UNDERNEATH THE DECK. FROM THERE IT WILL RUN EXPOSED. PEDESTAL IS CURRENTLY LOCATED ON THE EAST SIDE OF SIDEWALK ROUGHLY LINED UP WITH THE CENTERLINE OF THE DOUBLE WIDE RESTROOM TRAILER.
- 10 INSTALL AN OUTLET WITHIN THE CLOSETS AT EACH TRAILER (BY THE ELECTRICIAN) TO PROVIDE POWER TO NETWORK SWITCH/CONNECT TO NEAREST AVAILABLE PANEL USING #12 THHN, #12 GROUND, 1/2".

- 11 OUTLET INSTALLED (BY THE ELECTRICIAN) WITHIN THE ABOVE CEILING SPACE AT EACH CLASSROOM FOR THE CEILING MOUNTED PROJECTOR. CONNECT TO NEAREST AVAILABLE PANEL USING #12 THHN, #12 GROUND, 1/2". GENERAL CONTRACTOR TO PROVIDE DROP DOWN FRAMING ABOVE CEILING TO MOUNT ONE OVERHEAD PROJECTOR AT EACH CLASSROOM. (32 CLASSROOMS TOTAL.).
- 12 DATA CONTRACTOR SHALL PROVIDE ALL FIBER AND RG56/8 CABLES AND APPROPRIATE HARDWARE TO RUN, MOUNT AND CONNECT 8 DATA DROPS AT EACH CLASSROOM TRAILER (16 TRAILERS TOTAL) AND ASSOCIATED SWITCH AND WIRELESS ACCESS POINT AND 16 DATA DROPS AT EACH "OFFICE" TRAILER (4 TRAILERS TOTAL) AND ASSOCIATED SWITCH AND WIRELESS ACCESS POINT.
- 13 OWNER TO PROVIDE PROJECTORS AND MOUNTING HARDWARE AS WELL AS WIRELESS ACCESS POINTS.
- 14 IT IS CURRENTLY THE INTENTION THAT ALL DATA CABLING AND FIBER WILL BE RUN "EXPOSED" AND STRAPPED TO THE FLOOR JOISTS BETWEEN BUILDINGS. NO CONDUIT REQUIRED. CABLING SHALL BE RATED FOR EXTERIOR AND WET APPLICATIONS.
- 15 DATA CONTRACTOR SHALL COORDINATE WITH OWNER FOR FINAL DATA DROP LOCATIONS WITHIN EACH TRAILER. SUBMIT DRAWING FOR APPROVAL.
- 16 DATA CONTRACTOR TO PROVIDE ONE SWITCH PER TRAILER AND TWO AT TOP-OF-RACK (22 TOTAL) (NOT AT RESTROOMS). SWITCHES SHALL BE MODEL #S (TP-LINK TL-SG1218MPE WITH TL-SM311LSV4 INTERFACE MODULE) AT CLASSROOMS AND AT EACH OFFICE TRAILER.
- 17 PROVIDE AND INSTALL 4' VAPORTITE LED FIXTURE (LITHONIA: XVML-L48-350LM-MVOLT-40K-80CRI). CONNECT TO CIRCUIT #2 ON PANEL HP USING #12 THHN, #12 GROUND, 1/2". CONTROL VIA PHOTOCELL & TIMECLOCK CONNECTED TO PANEL HP.

PANEL HP		AIC RATING <u>22,000</u>													
VOLTAGE <input type="checkbox"/> 120/208V, 1Ø, 3W <input checked="" type="checkbox"/> 120/240V, 1Ø, 3W		ENCLOSURE <input type="checkbox"/> NEMA 1 (TOOL-LESS DOOR-IN-DOOR CONSTRUCTION) <input checked="" type="checkbox"/> NEMA 3R <input type="checkbox"/> NEMA 4X 320 STAINLESS STEEL <input type="checkbox"/> LOCKABLE COVER	<input type="checkbox"/> FULLY RATED <input type="checkbox"/> SERIES RATED												
100 AMP <input checked="" type="checkbox"/> FACTORY MAIN CIRCUIT BREAKER <input type="checkbox"/> SHUNT TRIP MAIN CB <input type="checkbox"/> MAIN LUGS ONLY <input type="checkbox"/> UL LISTED FEED-THRU LUGS		FEED <input type="checkbox"/> TOP <input type="checkbox"/> BOTTOM	<input type="checkbox"/> FURNISH GROUND BAR KIT <input type="checkbox"/> FURNISH ADDITIONAL ISOLATED GROUND BAR KIT <input type="checkbox"/> SERVICE ENTRANCE LABEL												
NEUTRAL <input checked="" type="checkbox"/> 100% <input type="checkbox"/> 200%		BRANCHES <input checked="" type="checkbox"/> BOLT-ON, PANELBOARD CONSTR. <input type="checkbox"/> FUSIBLE SWITCHES, FURNISH ALL FUSES, RK5 <input type="checkbox"/> PLUG-ON, LOADCENTER CONSTR.													
MOUNTING <input type="checkbox"/> SURFACE <input type="checkbox"/> RECESSED <input type="checkbox"/> FREE STANDING (FRONT ACCESS ONLY) <input type="checkbox"/> FREE STANDING (FRONT AND REAR ACCESS)		ALL COPPER BUSSING													
CKT. #	TRIP AMPS	WIRE	GND	COND.	LOAD DESCRIPTION	NOTES	A	B	NOTES	LOAD DESCRIPTION	COND.	GND	WIRE	TRIP AMPS	CKT. #
1	20	12	12	1/2	BACKFLOW PREVENT	---			---	LIGHTING	1/2"	12	12	20	2
3	20	-	-	-	SPARE	---			---	SPARE	-	-	-	20	4
5	20	-	-	-	SPARE	---			---	SPARE	-	-	-	20	6
7	20	-	-	-	SPARE	---			---	SPARE	-	-	-	20	8
9	20	-	-	-	SPARE	---			---	SPARE	-	-	-	20	10
11	20	-	-	-	SPARE	---			---	SPARE	-	-	-	20	12
13	20	-	-	-	SPARE	---			---	SPARE	-	-	-	20	14
15	20	-	-	-	SPARE	---			---	SPARE	-	-	-	20	16
17	20	-	-	-	SPARE	---			---	SPARE	-	-	-	20	18
19	20	-	-	-	SPARE	---			---	SPARE	-	-	-	20	20
21	-	-	-	-	SPACE	---			---	SPACE	-	-	-	-	22
23	-	-	-	-	SPACE	---			---	SPACE	-	-	-	-	24
25	-	-	-	-	SPACE	---			---	SPACE	-	-	-	-	26
27	-	-	-	-	SPACE	---			---	SPACE	-	-	-	-	28
29	-	-	-	-	SPACE	---			---	SPACE	-	-	-	-	30

NOTES:

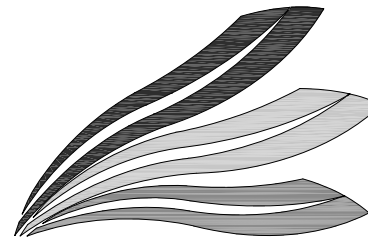
TOTAL LOAD = 4.8 KVA
TOTAL AMPS = 20 AMPS

ELECTRICAL SITE PLAN



SCALE: 1" = 20'-0"

1



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PROJECT NUMBER
2008

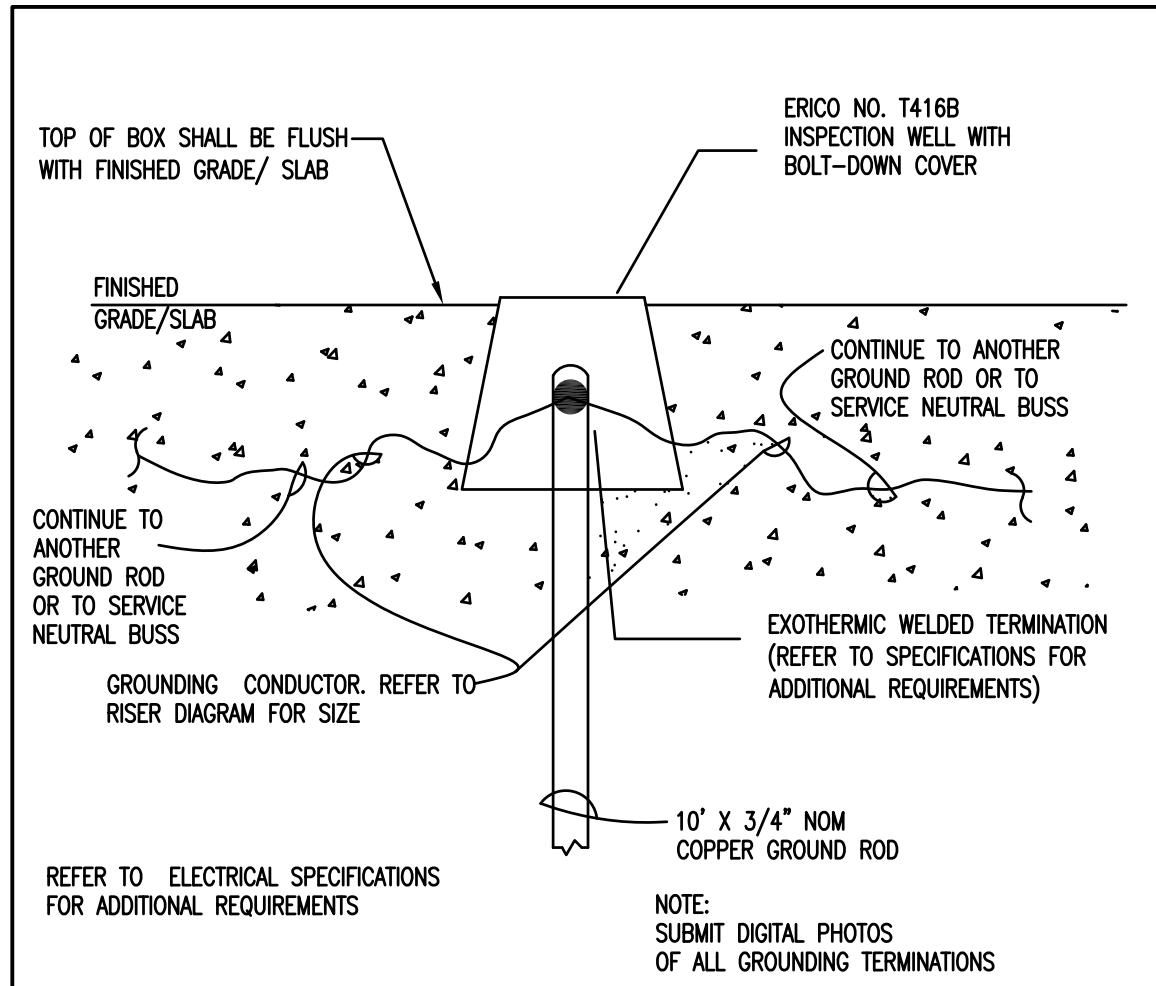


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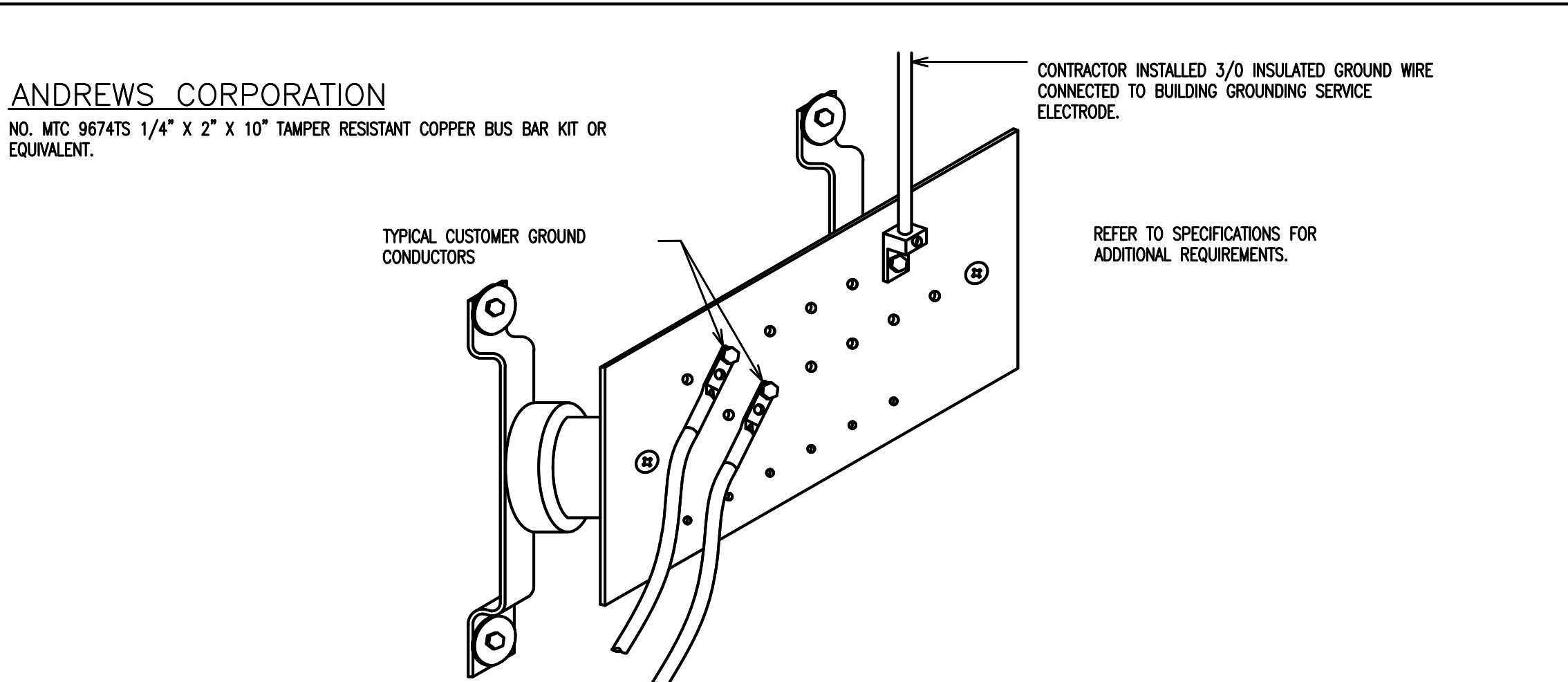
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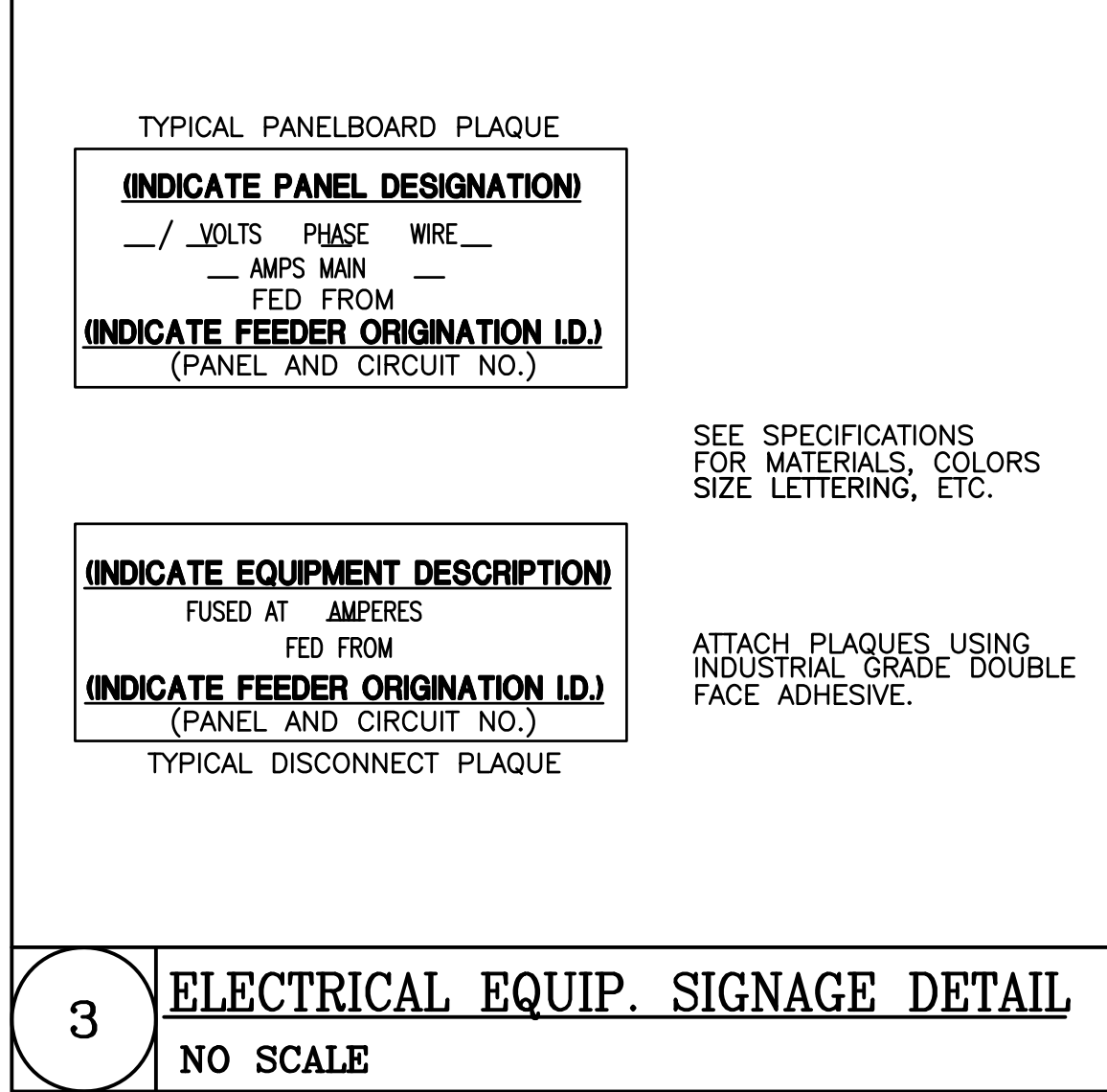
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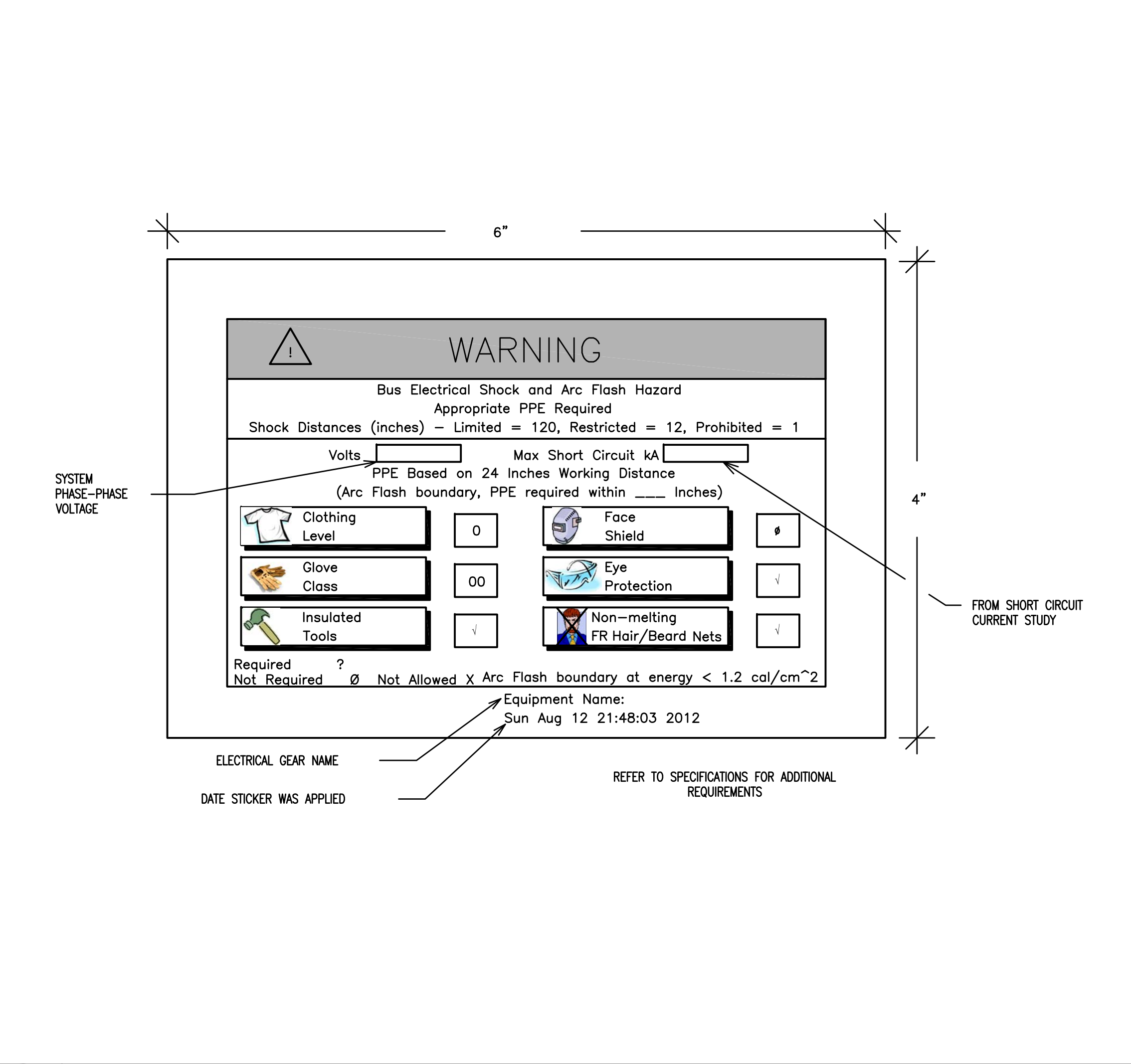
1 **TYPICAL GROUND ROD INSTALLATION
DETAIL** NO SCALE



2 **TELE/DATA/CATV – GROUND DETAIL (BACK BOARD AND EVERY CLOSET)** NO SCALE



3 **ELECTRICAL EQUIP. SIGNAGE DETAIL** NO SCALE



4 **ARC FLASH LABELING DETAIL** NO SCALE

FIRE ALARM GENERAL NOTES:

INDICATING CIRCUIT LAYOUT SHALL BE BASED ON 1.5 AMP PER INDICATING CIRCUIT. AVAILABLE NUMBER AND LAYOUT OF CIRCUITS MAY BE REVISED UPON APPROVAL OF THE ENGINEER IF AVAILABLE INDICATING APPLIANCE POWER PER CIRCUIT DIFFERS FROM THE 1.5 AMP UTILIZED IN DESIGN. HOWEVER, THE DESIGN SHALL NOT RESULT IN A LOAD GREATER THAN (80) EIGHTY PERCENT OF THE AVAILABLE POWER FOR THE ALARM INDICATING CIRCUIT.

ALL WIRE/CABLE FOR INITIATING AND INDICATING CIRCUITS SHALL COMPLY WITH NFPA 70 ARTICLE 760. ALL WIRE SHALL BE RUN IN CONDUIT, WHERE WIRE IS SUBJECT TO DAMAGE, WHICH SHALL BE RUN IN NEAT AND ORDERLY MANNER AS HIGH AS POSSIBLE.

CONNECTION TO 120 VOLT POWER SUPPLY SHALL BE ON A DEDICATED BRANCH CIRCUIT. THE CIRCUIT DISCONNECTING MEANS SHALL HAVE A RED MARKING, BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL AND BE IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL." THE LOCATION OF THE CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT.

LOCATION OF REMOTE POWER SUPPLIES MUST BE APPROVED BY ENGINEER. PROVIDE SMOKE DETECTOR IN ROOM FOR EACH UNIT.

FIRE ALARM STROBE SIGNALS SHALL CONTINUE TO FLASH, AFTER AUDIBLE SIGNALS ARE SILENCED, UNTIL SYSTEM IS RESET.

SEAL PENETRATIONS OF RATED WALLS TO MAINTAIN THE INTEGRITY OF THE WALL ASSEMBLY.

PENETRATIONS OF EXTERIOR WALLS AND ROOF DECK SHALL BE WEATHER PROOFED.

ROUTING AND LOCATION OF EQUIPMENT AND CIRCUITS SHALL BE FIELD DETERMINED AND INDICATED ON AS-BUILT DRAWINGS. FINAL INSTALLATION SHALL BE IN STRICT COMPLIANCE WITH NFPA 72 AND ADAAG.

FIRE ALARM CONTRACTOR SHALL COORDINATE CONDUIT AND CONDUCTOR SIZES WITH SYSTEMS VENDOR AND SHALL PROVIDE MATERIAL AS REQUIRED.

HORN/STROBES AND STROBES SUPPLIES FOR THIS JOB SHALL BE WHITE IN COLOR.

FIRE ALARM WIRING SHALL BE RAN IN CONDUITS UNDER BOTTOM OF FLOOR JOIST OF ELEVATED WOODEN WALKWAYS.

PROVIDE AND INSTALL DITEK NO 2MHLPB-WS ON ALL INITIATING CIRCUITS ENTER/LEAVING THE BUILDING. PROVIDE AND INSTALL DEVICES IN JUNCTION BOX CONCEALED ABOVE ACCESSIBLE CEILING IMMEDIATELY AT BUILDING EXTERIOR WALL. PROPERLY GROUND DEVICE PER MANUFACTURER'S INSTRUCTIONS.

PROVIDE AND INSTALL DITEK NO. DTK-120SRD-A ON ALL 120V CIRCUITS PROVIDING POWER TO ANY AND ALL FIRE ALARM SYSTEM COMPONENTS. PROVIDE AND INSTALL EMPTY CABINET ADJACENT TO RESPECTIVE FIRE ALARM SYSTEM (MATCH FIRE ALARM SYSTEM DEVICE CABINET). CABINET TO HOUSE SURGE PROTECTION DEVICE.

SECURITY CAMERA KEY NOTES:

1 VICON VALERUS DVR WITH 16 COMPATIBLE VICON CAMERAS POSITIONED BY SECURITY CONTRACTOR FOR MAXIMUM COVERAGE. SECURITY CONTRACTOR SHALL BE RESPONSIBLE FOR MOUNTING, WIRING, CONNECTIONS AND INSTALLATION, AS WELL AS COORDINATION WITH OWNER'S DATA NETWORK.

FIRE ALARM KEY NOTES:

- 1 AUDIO/VISUAL DEVICES INSTALLED UNDER COVER WALKWAY SHALL BE LISTED FOR OUTDOOR USE.
- 2 APPROXIMATE LOCATION OF NEW SIEMENS CERBERUS PACE VOICE EVAC FIRE ALARM PANEL.

INTERCOM LEGEND

SYMBOL	DESCRIPTION
	INTERCOM SPEAKER
	EXTERIOR INTERCOM SPEAKER
	CALL BUTTON
	MASTER INTERCOM STATION
	EXTERIOR INTERCOM CLOCK
	INTERCOM CLOCK
	SECURITY CAMERA

ALL INTERCOM EQUIPMENT, HEAD IN EQUIPMENT, ALL DEVICES & ACCESSORIES SHALL BE TELCORE E-SERIES.

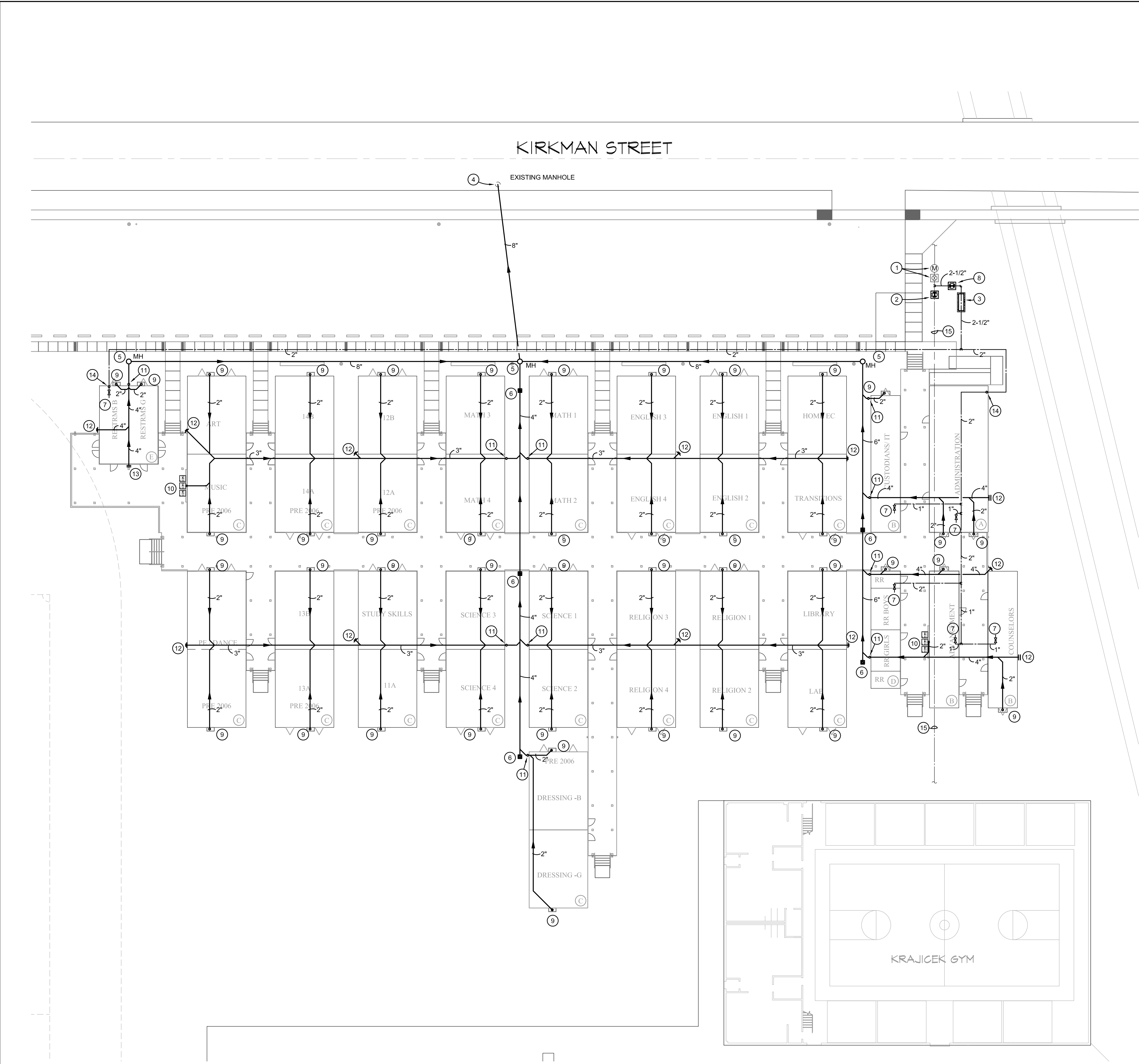
FIRE ALARM LEGEND

NOT ALL DEVICES ARE NECESSARILY USED ON THIS PROJECT

SYMBOL	DESCRIPTION
	SMOKE DETECTOR (CEILING MOUNTED)
	WEATHER PROOF HEAT DETECTOR (CEILING MOUNTED)
	WEATHER PROOF FIRE ALARM PULL STATION WITH STI STOPPER II COVER
	FIRE ALARM SPEAKER/STROBE UNIT (CEILING MOUNTED)
	FIRE ALARM STROBE UNIT (CEILING MOUNTED)
	FIRE ALARM VOICE EVAC PANEL - SIEMENS CERBERUS PACE
	DENOTES WEATHERPROOF DEVICE

NOTE:
FIRE ALARM DEVICES SHOWN ARE PRESCRIPTIVE. FINAL DESIGN TO BE COMPLETED BY FIRE ALARM CONTRACTOR AND APPROVED BY FIRE MARSHALL PRIOR TO INSTALLATION.

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PLUMBING GENERAL NOTES:

- ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL CODES (INCLUDING INTERNATIONAL PLUMBING CODE, INTERNATIONAL BUILDING CODE, INTERNATIONAL FUEL GAS CODE, NFPA, ETC.), AND APPLICABLE DEQ AND DHHOP REGULATIONS TO THE SATISFACTION OF THE AUTHORITIES HAVING JURISDICTION. CONTRACTOR SHALL OBTAIN REQUIRED PERMITS AND APPROPRIATE WORK AUTHORIZATION PRIOR TO BEGINNING WORK.
- CONTRACTOR SHALL VERIFY EXACT LOCATION OF UTILITIES, INVERT ELEVATIONS, ETC. PRIOR TO BEGINNING ANY ROUGH-IN OF SUBSURFACE WORK. COORDINATE ALL UTILITY TIE-IN REQUIREMENTS WITH RESPECTIVE UTILITIES.
- REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, DETAILS, ETC. INSTALL WORK TO CONFORM TO ARCHITECTURAL AND STRUCTURAL DRAWINGS AS REQUIRED. REVIEW COMPLETE SET OF CONTRACT DOCUMENTS PRIOR TO SUBMITTING BID.
- CONTRACTOR SHALL RUN ALL NEW UTILITIES (WATER, SEWER, ETC.) AROUND NEW CONSTRUCTION AREA AS INDICATED PRIOR TO SHUTTING DOWN OR TIE-IN TO ANY SYSTEMS. COORDINATE ALL UTILITY SERVICE DISRUPTIONS TO OTHER UTILITY CUSTOMERS WITH RESPECTIVE UTILITY. ALL UTILITY RELOCATION (SUCH AS WATER) SHALL BE DONE IN STRICT COMPLIANCE WITH UTILITY COMPANY STANDARDS AND REQUIREMENTS. CONTRACT UTILITY COMPANY. VERIFY AND DOCUMENT REQUIREMENTS, COSTS, CHARGES, ETC. CONTRACTOR SHALL FULLY COMPLY WITH ALL UTILITY COMPANY REQUIREMENTS.
- COORDINATE ALL WORK THROUGH GENERAL CONTRACTOR. COORDINATE CUTTING, PATCHING, TRENCHING WORK WITH SITE GRADING / PAVING PLAN.
- UNDERGROUND UTILITIES ARE APPROXIMATE. VERIFY INVERTS AND EXACT LOCATIONS WITH UTILITY PERSONNEL. VERIFY ALL EASEMENTS WITH APPROPRIATE PARTIES. ADJUST ALL UTILITY LINES ACCORDINGLY.
- COORDINATE INSTALLATION OF ALL PLUMBING, PIPING, ETC. WITH ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL, ELECTRICAL, EXISTING AND NEW CONDITIONS, ALL TRADES, ETC.
- ALL DOMESTIC WATER BRANCH LINES SHALL HAVE VALVES AT MAINLINES.

PLUMBING KEYNOTES:

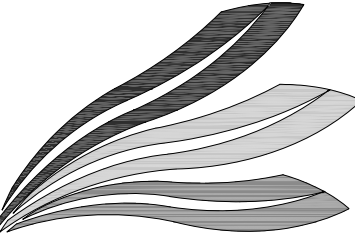
- EXISTING 2" METER AND WATER MAIN SHUTOFF VALVE TO REMAIN.
- PROVIDE DOMESTIC WATER SHUTOFF VALVE IN CAST IRON VALVE BOX WITH CONCRETE PAD AND METAL COVER MARKED "WATER" ON EXISTING WATER LINE SERVING GYM. REFER TO DETAIL 2 / P2.0.
- PROVIDE AND INSTALL A 2-1/2" WATTS SERIES LP009 REDUCE PRESSURE ZONE BACKFLOW PREVENTER AS PER LOCAL CODES. BACKFLOW PREVENTER SHALL HAVE BRONZE STRAINER, STAINLESS STEEL CHECK SEATS, BALL TYPE CUTOFF VALVES, SPRING LOADED "Y" PATTERN CHECK VALVES, RELIEF VALVE, TEST COCKS, AND SHALL CONFORM TO ALL CODES. INSULATE AS PER SPECIFICATIONS. PROVIDE A INSULATED HEATED ENCLOSURE HOT BOX MODEL HB3NS WITH A 1500 WATT HEATER (120-160) OVER BACKFLOW PREVENTER. COORDINATE COLOR AND LOCATION OF HOT BOX WITH ARCHITECT. PROVIDE CONCRETE PAD FOR ANCHOR INSTALLATION.
- CONNECT TO EXISTING SANITARY SEWER MANHOLE IN THIS VICINITY IN ACCORDANCE WITH STATE AND LOCAL UTILITIES DEPARTMENT REQUIREMENTS. VERIFY FLOW DIRECTION, INVERT, LINE SIZE, AND TIE-IN LOCATION PRIOR TO ANY ROUGH-INS. PLUMBING CONTRACTOR SHALL PAY ALL SERVICE AND CONNECTION CHARGES. CONTRACTOR SHALL CUT AND PATCH STREET PER CITY STANDARDS AS REQUIRED FOR NEW TAP.
- PROVIDE NEW FIBERGLASS MANHOLE COMPLYING WITH CITY OF LAKE CHARLES STANDARD SPECIFICATIONS FOR INFRASTRUCTURE CONSTRUCTION. VERIFY EXACT INVERT AND ELEVATION IN FIELD.
- PROVIDE EXTERIOR CLEANOUT WITH CONCRETE PAD PER DETAIL 2 / P2.0.
- CONNECT SEWER AND WATER TO ALL PLUMBING FIXTURES AND WATER HEATERS IN TEMPORARY BUILDINGS. REFER TO MANUFACTURERS DETAILS FOR CONNECTION LOCATIONS AND SIZES.
- PROVIDE DOMESTIC WATER SHUTOFF VALVE IN CAST IRON VALVE BOX WITH CONCRETE PAD AND METAL COVER MARKED "WATER". REFER TO DETAIL 2 / P2.0.
- PROVIDE A 2" HUB DRAIN FOR INDIRECT CONDENSATE DRAIN AT EACH A/C UNIT. EXTEND A/C UNIT DRAIN LINE TO HUB DRAIN. CONNECT HUB DRAINS TO NEW SEWER LINES AS SHOWN. CONDENSATE DRAIN LINES MAY RUN ABOVE GRADE WHERE CONCEALED BY BUILDINGS AND WALKWAYS.
- PROVIDE THREE OUTDOOR VANDAL RESISTANT ELECTRIC WATER COOLERS WITH BOTTLE FILLS (120-160 ELECT. SERVICE) AT EACH RESTROOM LOCATION. MOUNT TO TEMPORARY WALL SHOWN ON ARCHITECTURAL PLANS UNDER CANOPY. EWC SHALL BE ELKAY VRCBWSK. MOUNT ONE AT EACH LOCATION AT ADA HEIGHT AND THE OTHER TWO AT STANDARD HEIGHT. COORDINATE EXACT LOCATION IN FIELD WITH ARCHITECT AND ELECTRICAL CONTRACTOR PRIOR TO ROUGH-IN.
- DROP DOWN WITH SEWER LINE FROM ABOVE GRADE TO BELOW GRADE IN THIS VICINITY.
- PROVIDE END CLEANOUT CAP AT EDGE OF TEMPORARY BUILDING. TURN UP AND RISE TO FLUSH WITH FINISHED FLOOR ELEVATION.
- PROVIDE WALL CLEANOUT CAP ON WASTE STACK ABOVE FLOOR.
- RISE UP WITH WATER LINE TO ABOVE GRADE BELOW TEMPORARY BUILDING. ALL WATER LINES ABOVE GRADE SHALL BE INSULATED AND COVERED WITH ALUMINUM JACKET. PROVIDE HANGERS AND CONNECT TO ALL PLUMBING FIXTURE WATER CONNECTION POINTS.
- ASSUMED LOCATION OF EXISTING WATER LINE SERVING GYM. VERIFY EXACT LOCATION IN FIELD PRIOR TO TRENCHING.

NOTE:
MANHOLES, COVERS, SEWER MAIN, WATER MAINS AND INSTALLATION, EXCAVATION, BEDDING, TESTING, ETC. SHALL COMPLY WITH CITY OF LAKE CHARLES STANDARD SPECIFICATIONS FOR INFRASTRUCTURE CONSTRUCTION. CONTRACTOR SHALL OBTAIN INSPECTION FROM CITY OF LAKE CHARLES PRIOR TO COVERING MANHOLES, SITE SEWER PIPING AND SITE WATER PIPING WITH DIRT.

Plumbing Site Plan

SCALE: 1" = 20'-0"

1



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PROJECT NUMBER

2008



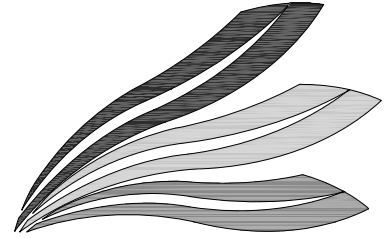
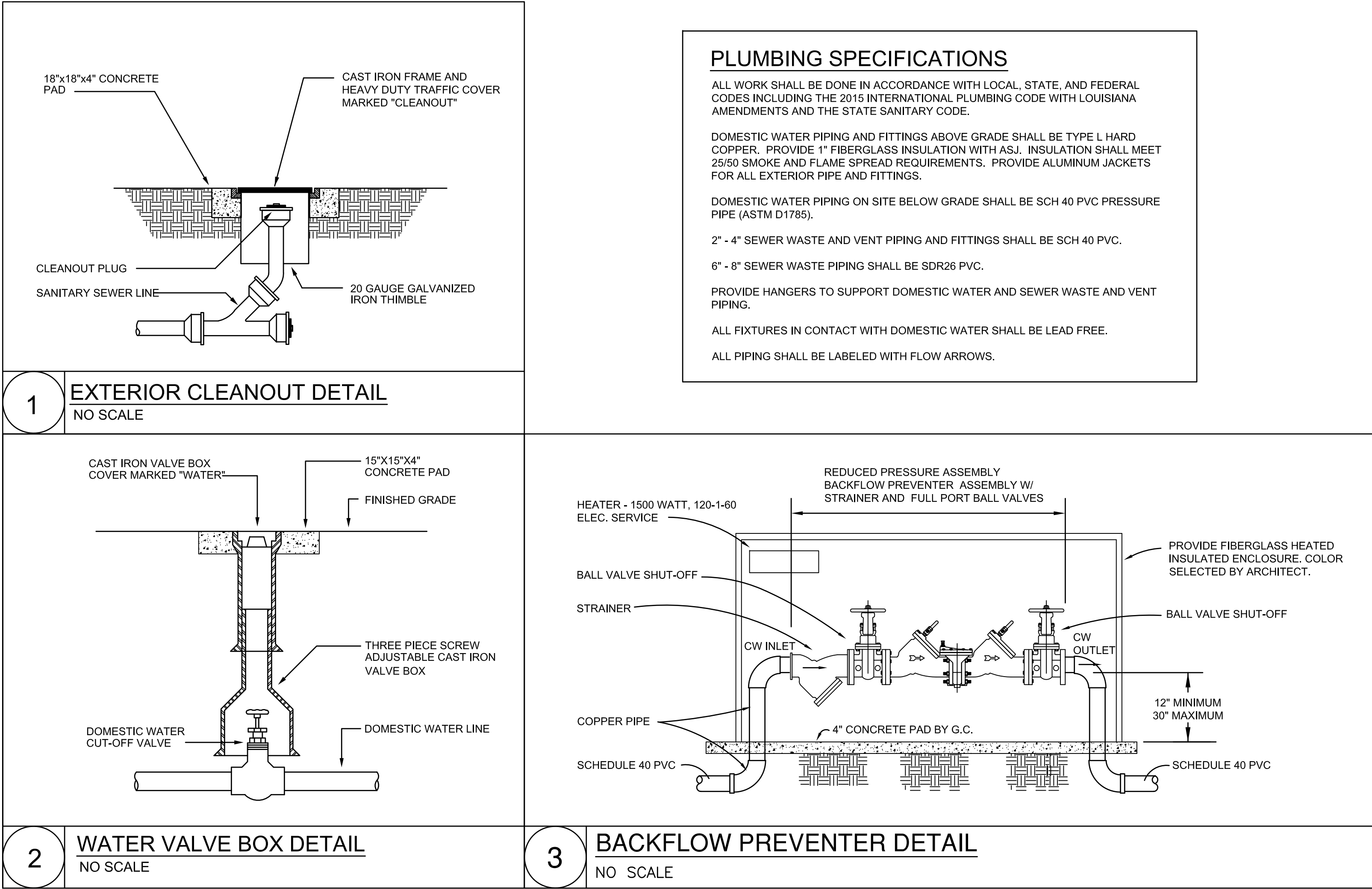
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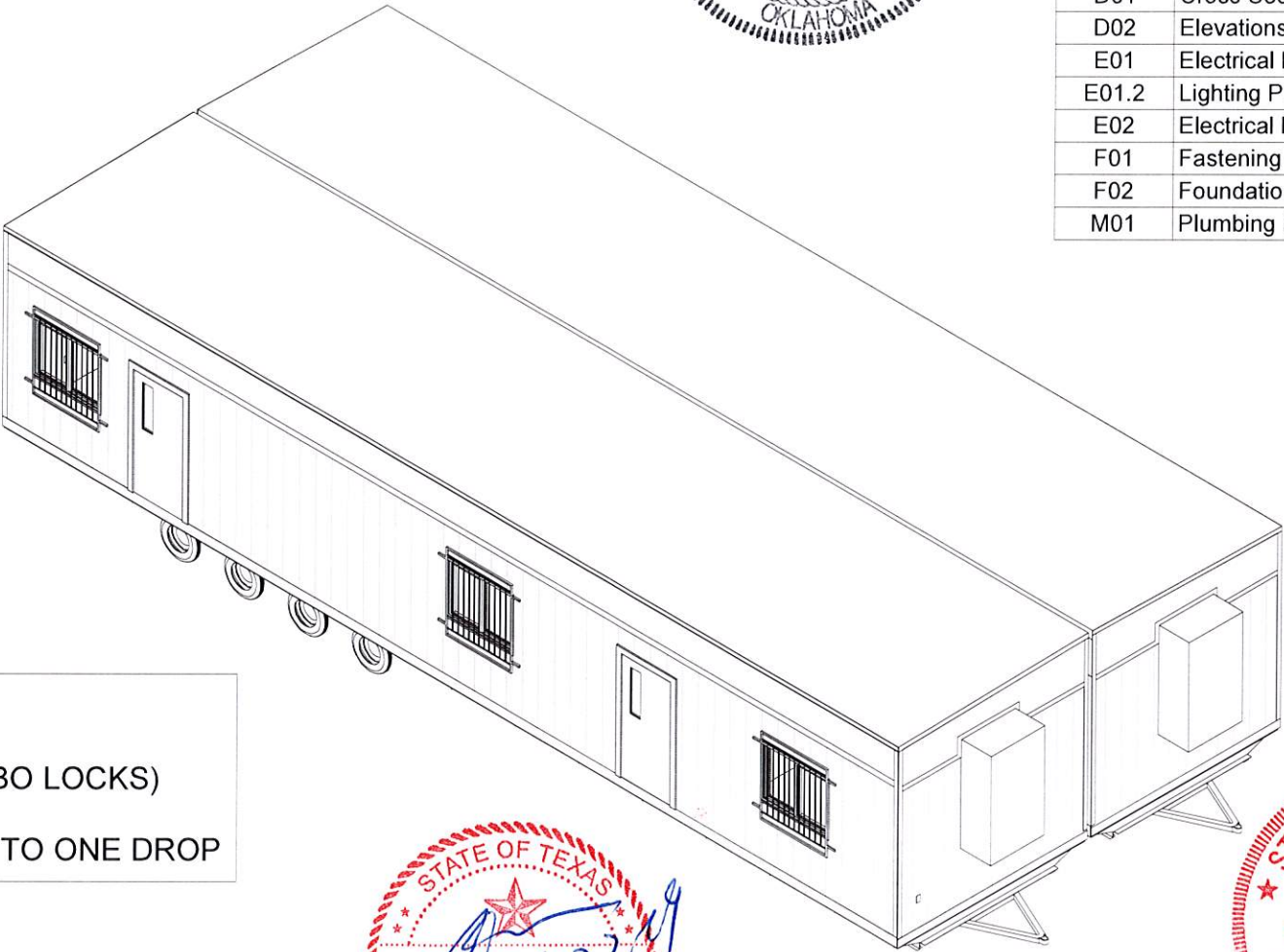
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PRINT DATE
09/19/2020

Sheet List	
Sheet No.	Sheet Name
A00	Cover Page
A01	Equipment Page
A02	Framing Plan
A02.1	Blocking Plan
A03	Construction Framing & Details
A04	Mechanical Plan
D01	Cross Section
D02	Elevations
E01	Electrical Plan
E01.2	Lighting Plan
E02	Electrical Notes
F01	Fastening Schedule
F02	Foundation Page
M01	Plumbing Plan



- OPTIONS**
- BURGULAR BARS
 - DOOR BARS (COMBO LOCKS)
 - STEPS
 - MANIFOLD WASTE TO ONE DROP

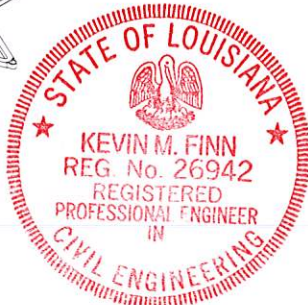
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TEXAS INDUSTRIALIZED BUILDING CODE COUNCIL

This document is approved pursuant to the Industrialized Housing and Buildings Act.

DRA No. 7 IBC X IRC
Date: 4/24/19

DRA Signature: 



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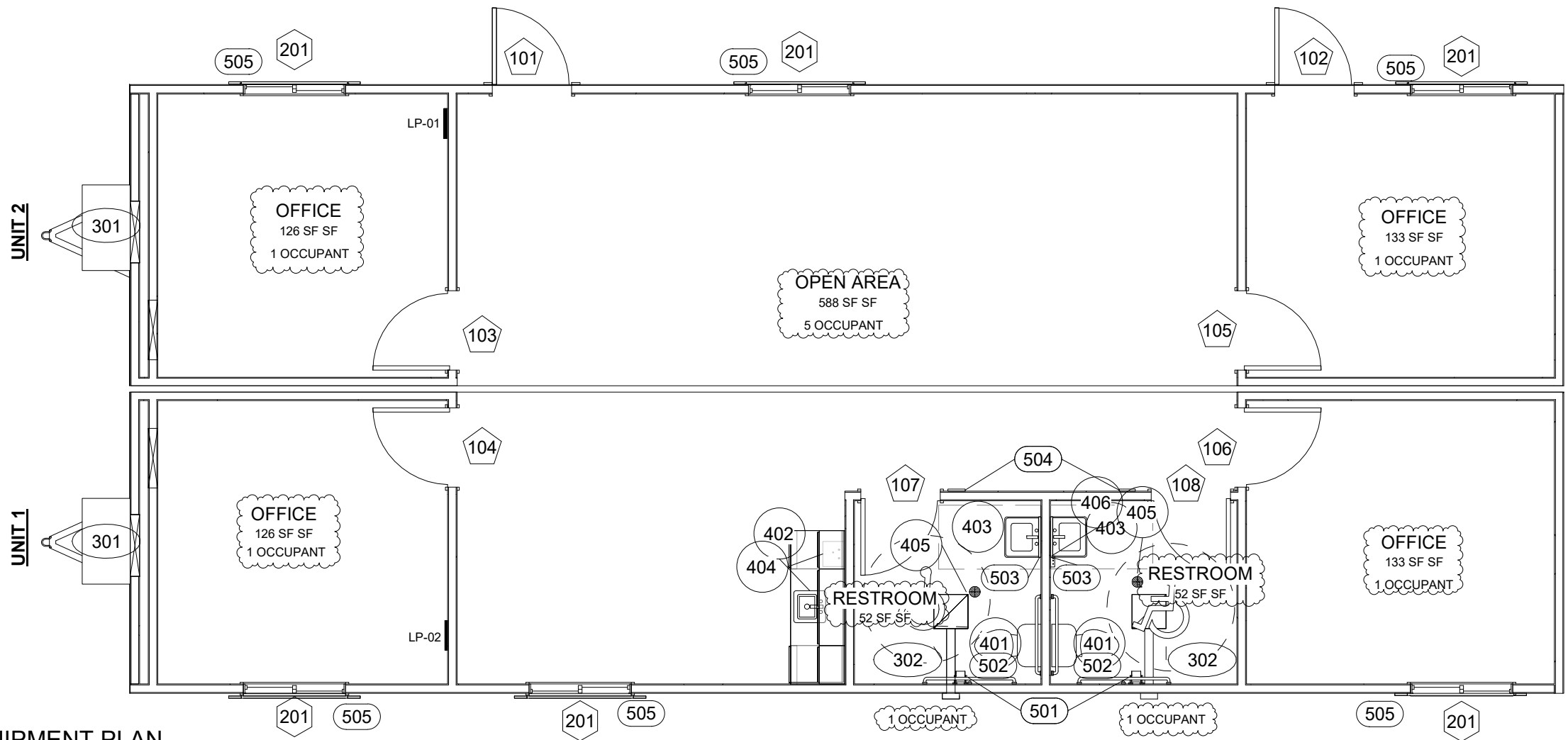
PROJECT TITLE:
24' X 56' OFFICE - VESTA (TRUSS)

DRAWING TITLE:
Cover Page

PROJECT NO:
19503-05

SHEET NO:
A00

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

Door Equipment Schedule					
Mark	Count	Function	Model	Description	Hardware
101	1	Exterior	36"x80"	Telstar 20 Ga. Steel Pre-Hung Insulated Door w/ 18 Ga Frame, ADA 10X10 Lite	Passage Lever, Deadbolt w/ Thumbatch and Checkchain
102	1	Exterior	36"x80"	Telstar 20 Ga. Steel Pre-Hung Insulated Door w/ 18 Ga Frame, ADA 10X10 Lite	Passage Lever, Deadbolt w/ Thumbatch and Checkchain
103	1	Interior	36"x80"	Legacy Walnut w/ Metal Jamb	Passage Lever, Doorstop
104	1	Interior	36"x80"	Legacy Walnut w/ Metal Jamb	Passage Lever, Doorstop
105	1	Interior	36"x80"	Legacy Walnut w/ Metal Jamb	Passage Lever, Doorstop
106	1	Interior	36"x80"	Legacy Walnut w/ Metal Jamb	Passage Lever, Doorstop
107	1	Interior	36"x80"	Legacy Walnut w/ Metal Jamb	Privacy Lever, Doorstop
108	1	Interior	36"x80"	Legacy Walnut w/ Metal Jamb	Privacy Lever, Doorstop

Window Equipment Schedule			
Mark	Count	Model	Description
201	6	48"x36"	Vinyl White Low E66 V.S. W/ SCRNB AND 1" VINYL MINI BLINDS

Mechanical Equipment Schedule			
Mark	Count	Model	Description
301	2	3 Ton w/ 10 kW Heat	Wall Hung HVAC Unit
302	2	75 CFM	Exhaust fan/light combo

Plumbing Fixture Schedule			
Mark	Count	Model	Description
401	2		ADA water closet w/ tank, bowl, elongated seat
402	1		Single compartment bar sink w/ ADA center-set gooseneck faucet
403	2		Wall hung lavatory w/ ADA faucet
404	1	2.5 GAL.	Point of Use Mini-Tank Electric Water Heater
405	2		Floor Drains
406	1	SP48DL	InstaHot Point of Use Electric Tankless Water Heater

Furniture Equipment Schedule			
Mark	Count	Model	Description
501	2	Single Roll	Toilet Paper Holder
502	2		ADA Grab bar 36" on rear and 42" on side and vertical 18" on side
503	2	18x36	Frameless Mirror, ADA-Compliant
504	2		Restroom Sign, ADA-Compliant
505	6		Burgular Bars

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PROJECT TITLE:
24' X 56' OFFICE - VESTA (TRUSS)

DRAWING TITLE:
Equipment Page

PROJECT NO:
19503-05

SHEET NO:
A01

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CONSTRUCTION NOTES:

1. ALL MEASUREMENTS ARE FROM RAW FRAMING MEMBER TO RAW FRAMING MEMBER, EXCEPT WHEN FINISHED I.D. IS CALLED OUT
2. ALL EXTERIOR WALLS ARE DRAWN AT 3-1/2" ALL INTERIOR ARE DRAWN AS 3-1/2" UNLESS OTHERWISE NOTED.
3. EXTERIOR DOOR AND WINDOW HEADERS TO DBL 2X4
4. ALL DOOR JAMBS ARE 3" AWAY FROM WALL UNLESS NOTED OTHERWISE
5. WALL HEIGHT IS 7'10" EXCEPT WHERE NOTED ELSEWHERE

R-11 INSULATION

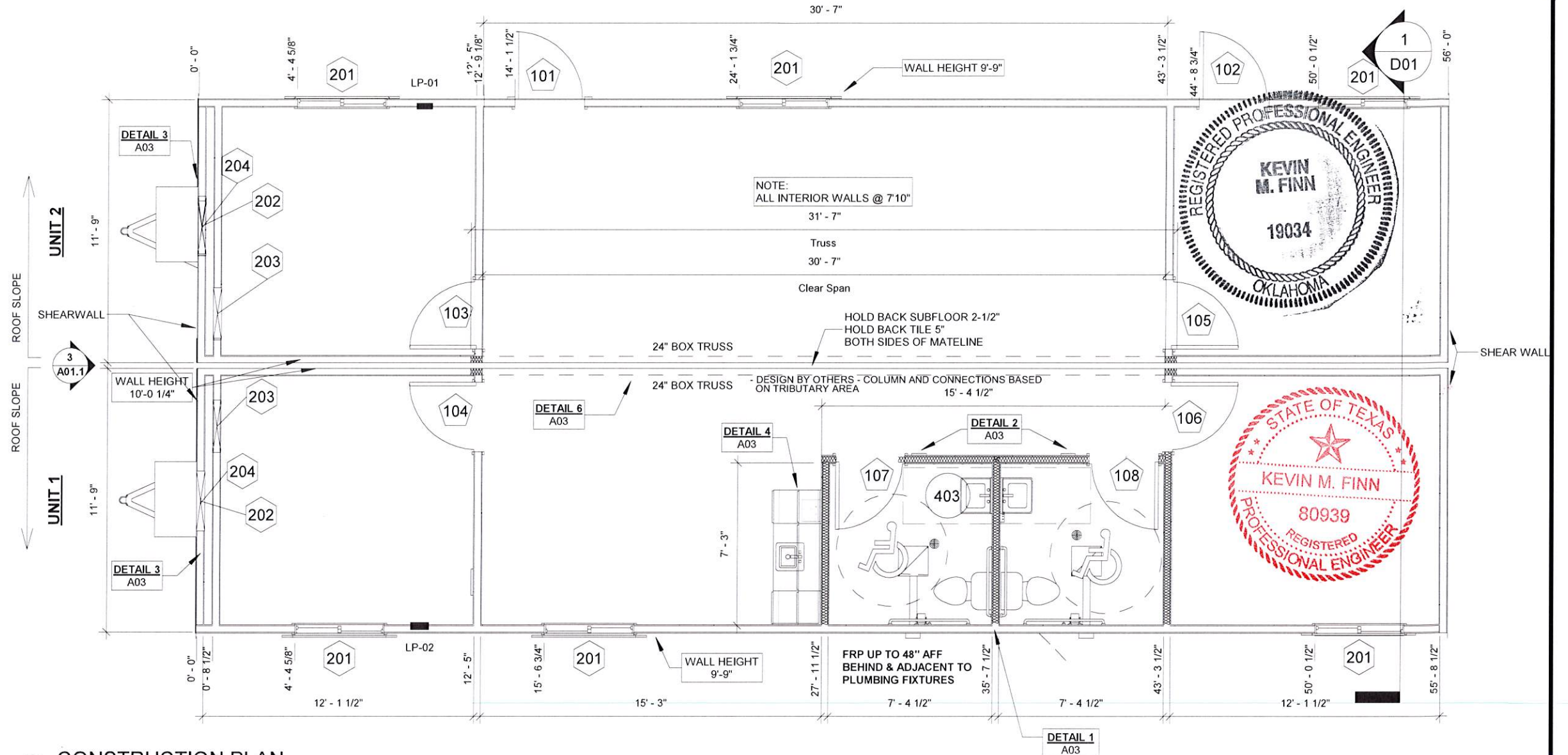
NOTE ON SHEAR WALLS

SHEAR WALLS TO BE SHEATHED FULL HEIGHT BOTH SIDES TO BOTTOM OF RAFTERS AND BLOCKING INSTALLED IF NOT CONTINUOUS

1 DENOTES BEAM POCKET LOCATIONS

NOTES ON BEAM POCKET (TYP 2 BEAMS)

- (1) 24" BOX TRUSS
- 6" QUAD BEAM POCKET
- BOTTOM OF BEAM & POCKET @ 8' - 0 1/4"
- MIN. (3) #2 SYP 2X4 COLUMNS W/ MIN. (3) 18GA X 1-1/4" (HURRICANE STRAPS) FASTENED W/ MIN. (18) 16d NAILS EACH STRAP



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

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Door Schedule

Mark	Rough Width	Rough Height	Sill Height
101	37 1/4"	81"	0"
102	37 1/4"	81"	0"
103	37 1/4"	81"	0"
104	37 1/4"	81"	0"
105	37 1/4"	81"	0"
106	37 1/4"	81"	0"
107	37 1/4"	81"	0"
108	37 1/4"	81"	0"

Window Schedule

Mark	Rough Width	Rough Height	Sill Height
201	48"	36"	39"
202	32"	10 1/2"	92 1/2"
203	28"	14"	72"
204	29"	14"	62"



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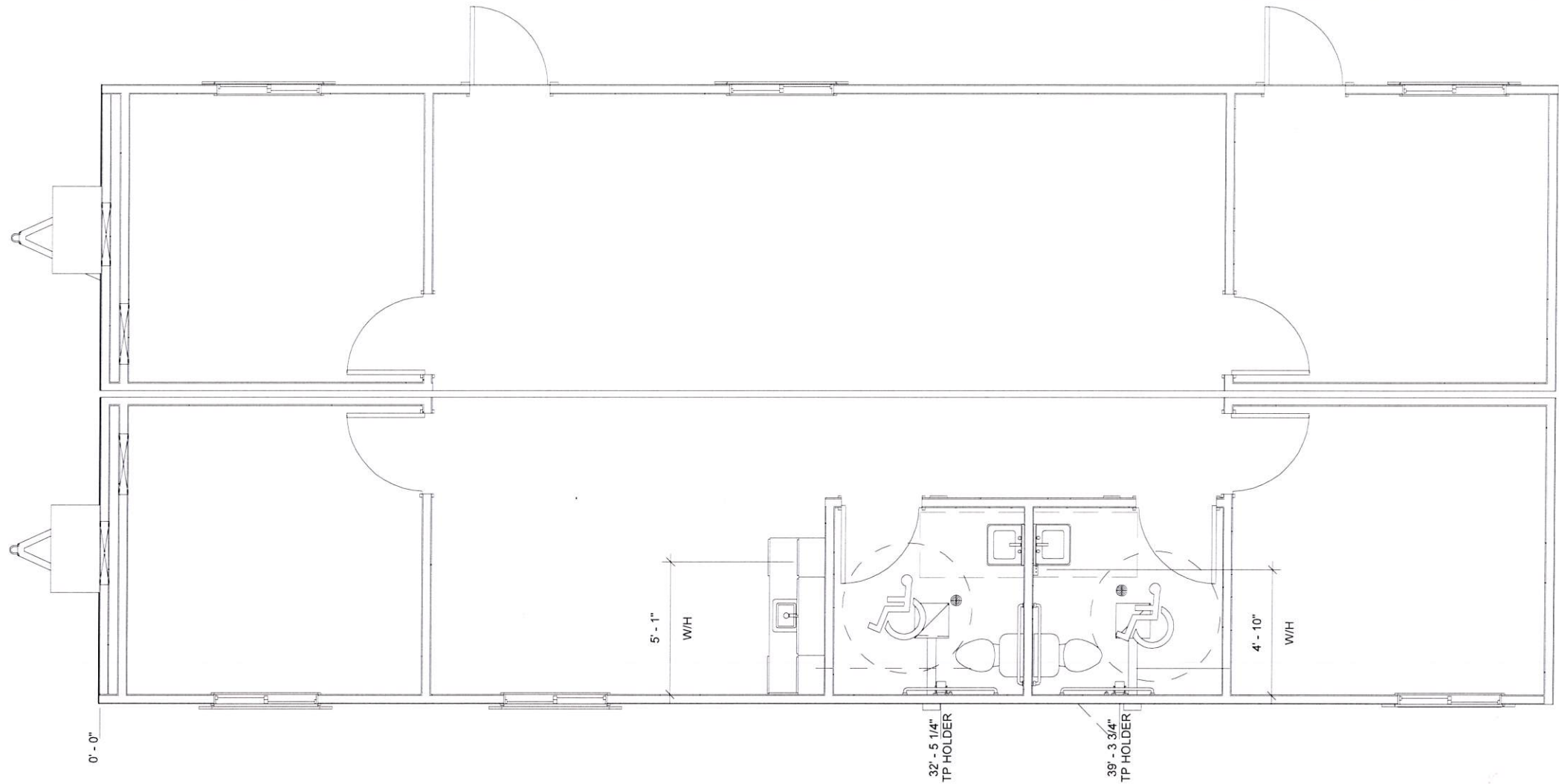
PROJECT TITLE:
24' X 56' OFFICE - VESTA (TRUSS)

DRAWING TITLE:
Framing Plan

PROJECT NO:
19503-05

SHEET NO:
A02

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1 A02.1 Blocking Plan
3/16" = 1'-0"


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BLOCKING SCHEDULE		
ITEM	BLOCKING HEIGHT	MATERIAL
CLOSET	66-1/2" AFF	2X6
CORK BOARD	56" AFF	2X6
LOCKERS	1-1/2" & 66-1/2" AFF	2X6
NIGHT TABLE	1-1/2" & 24-1/2" AFF	2X6
PERSONAL DESK	1-1/2" & 24-1/2" AFF	2X6
TELEVISION	60" AFF	2X8
TACK BOARD	56" AFF	2X6
FIRE EXT.	44" AFF	2X10
WATER HEATER	42" AFF	2X8
SHAVING SHELF	30" AFF	2X6
SOAP DISPENSER	36" AFF	2X6
MOP SINK TAPS	32" AFF	2X8
TP HOLDER	20" AFF	2X6
TOWEL BAR	40-3/4" AFF	2X8
TOWEL RING	40-3/4" AFF	2X6
VANITY COUNTER	26-1/2" AFF	2X6
COAT RACK	68" AFF	2X8
PARTITION BLOCKING	24", 48", 72", 96" AFF	2X4



NOTE: GENERIC BLOCKING SCHEDULE INTENDED TO CAPTURE ALL POSSIBLE CIRCUMSTANCES
NOT ALL OBJECTS MAY BE PRESENT IN UNIT

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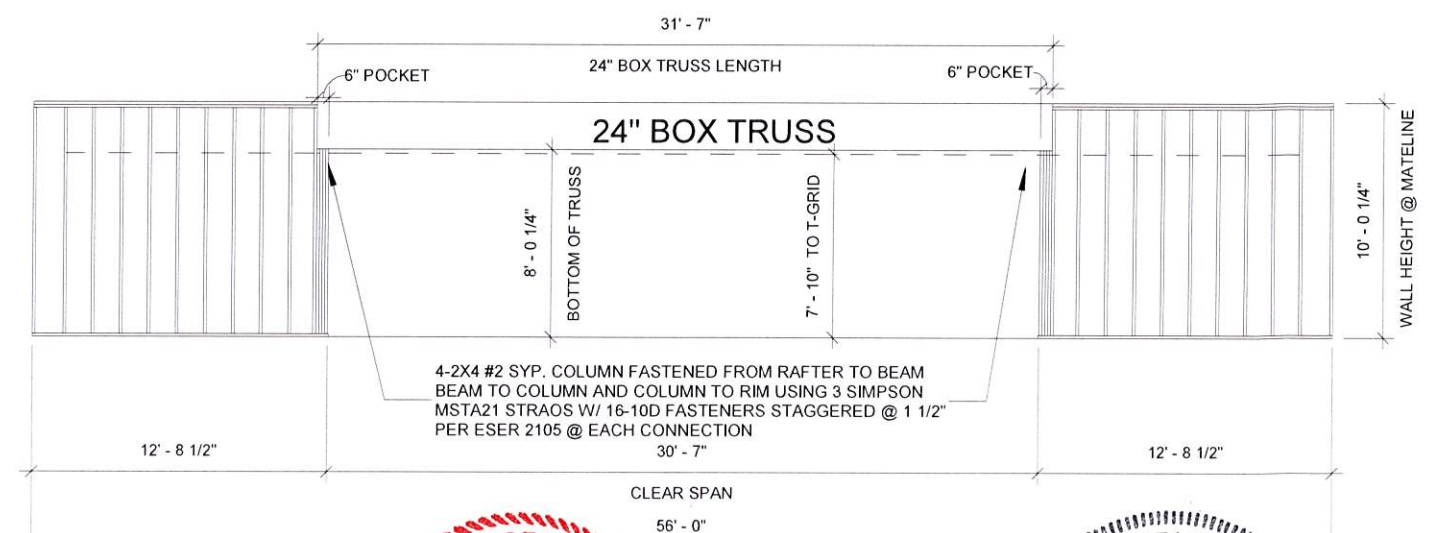
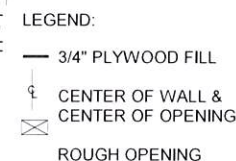
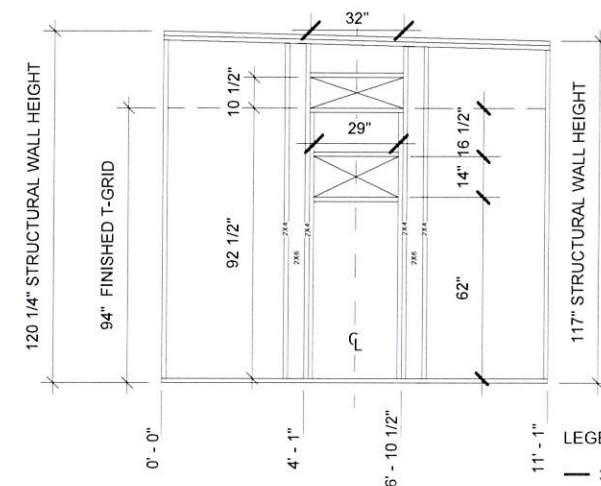
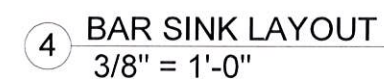
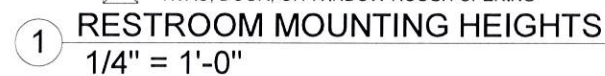
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24' X 56' OFFICE - VESTA (TRUSS)

DRAWING TITLE:
Blocking Plan

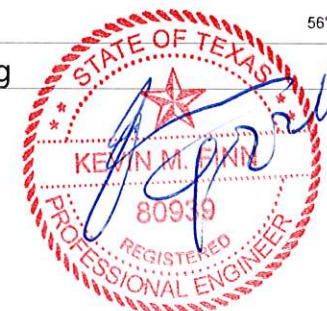
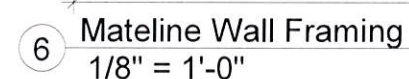
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SHEET NO:
A02.1

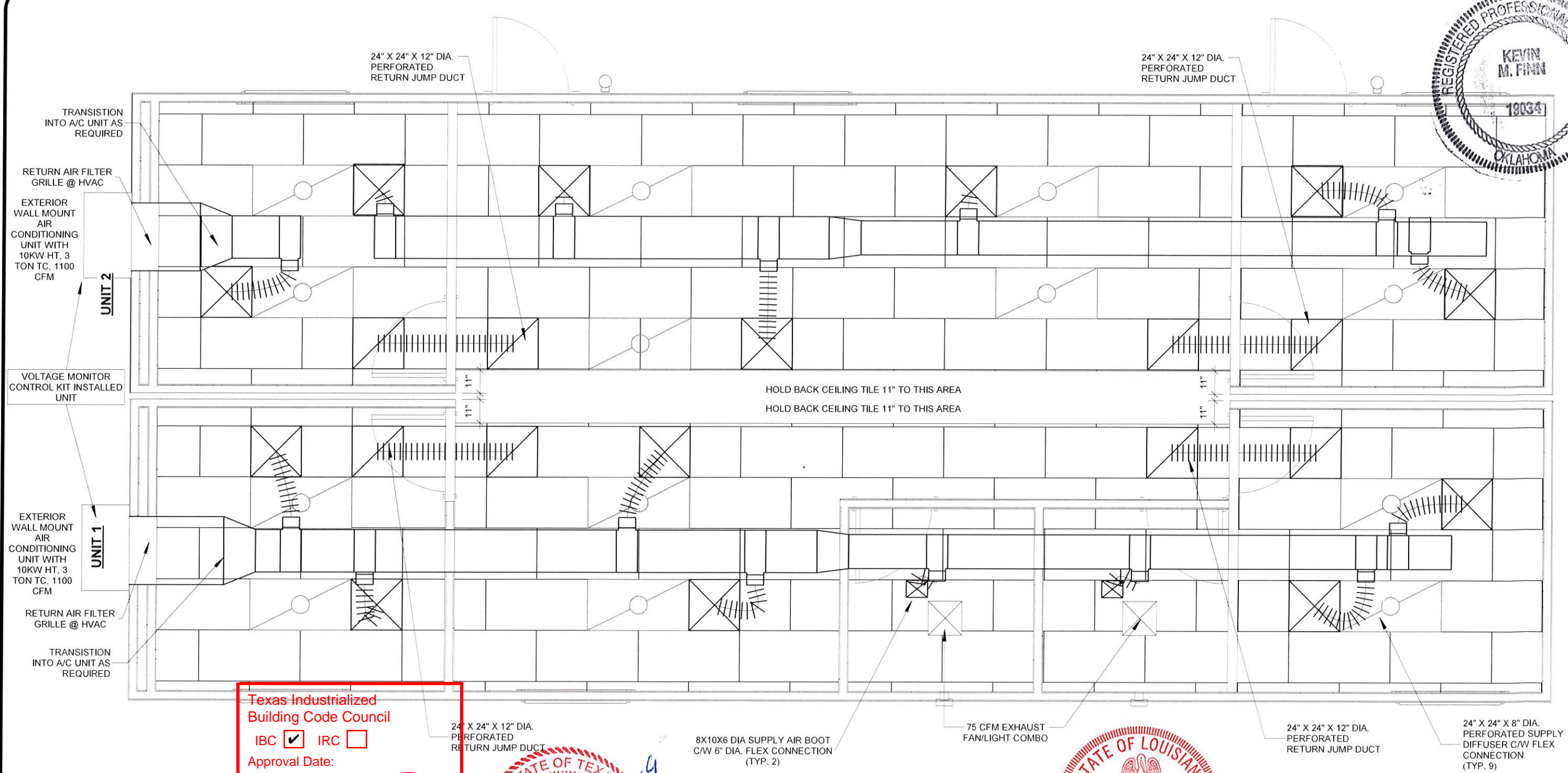
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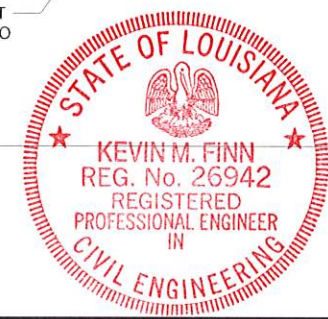


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1 MECHANICAL PLAN
1/4" = 1'-0"

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PROJECT TITLE:	24' X 56' OFFICE - VESTA (TRUSS)
DRAWING TITLE:	Mechanical Plan
PROJECT NO:	19503-05
SHEET NO:	A04




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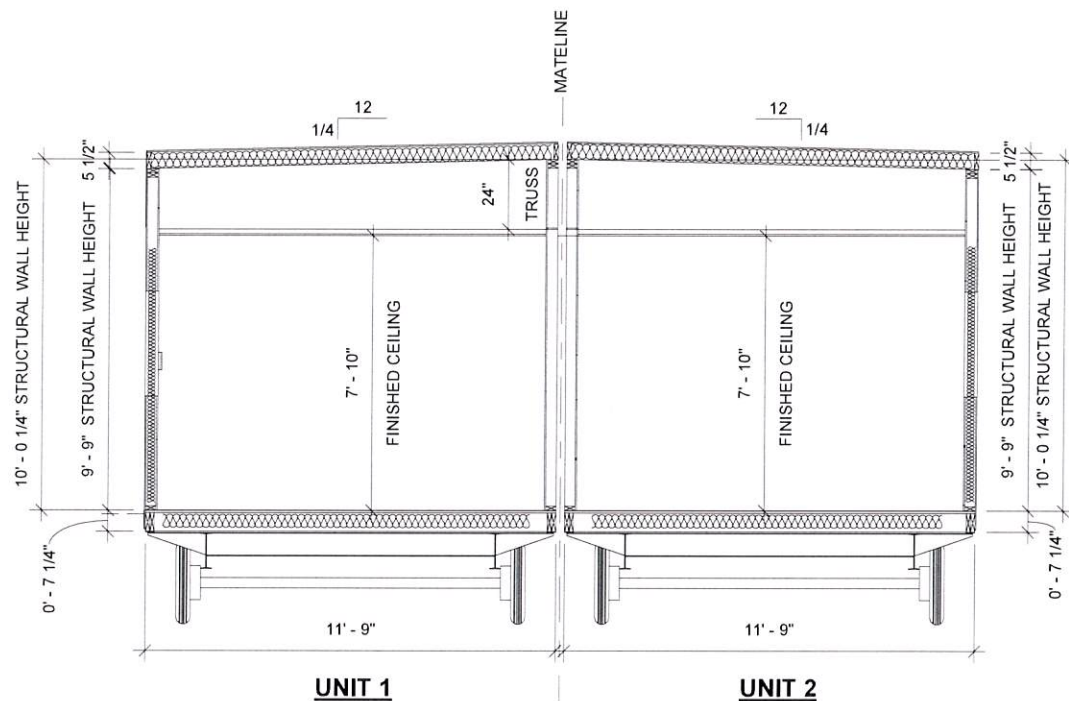
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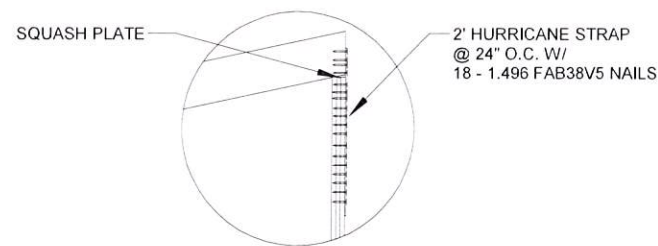
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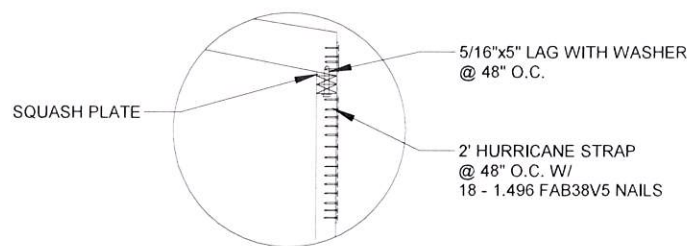




1 CROSS SECTION
3/16" = 1'-0"



3 RAFTER TO BEAM CONNECTION
3/8" = 1'-0"



4 RAFTER TO WALL CONNECTION
3/8" = 1'-0"

FRAME

Frame: 12' X 60' (56' BOX SIZE) 12" - I-BEAM
Axle: 1BR -3DR AXLES
Hitch: REMOVABLE HITCH
Tires: 14 PLY TIRES

FLOORS

Undersheathing: .040 MOBILE FLEX WOVEN PLASTIC TYPE OR EQUAL
Floor Joist: 2x8 #2 SYP @ 16" O.C.DOUBLE RIM JOIST
Insulation: R-30 UNFACED FIBERGLASS INSULATION
Subfloor: 3/4" T&G PLYWOOD - SINGLE LAYER
Floor Covering: COMMERCIAL GRADE 12"X12"X1/8" VCT TILE THROUGHOUT (STAGGERED)

EXTERIOR WALLS

Wall Framing: 2x4 #2 SYP @ 16" O.C.
Top Plate: DOUBLE
Bottom Plate: SINGLE
Insulation: R-13 UN-FACED FIBERGLASS INSULATION-FRICTION FIT
Interior Covering: 1/2" VCG WITH MATCHING BATTENS
Base: 4" VINYL COVE BASE THROUGHOUT
Building Wrap: HOUSEWRAP UNDER EXT. SIDING
Ext. Siding: 3/8" L.P. SMART PANEL SIDING 8" VERTICAL
Ext. Trim: 3/4" X 4" SMART PANEL TRIM
DOORS, WINDOWS, CORNERS, HVAC
3/4" X 6" SMART PANEL TRIM
BOTTOM
FRP: 48" AFF IN RESTROOMS, BEHIND & ADJACENT TO PLUMBING FIXTURES

INTERIOR WALLS

Wall Framing: 2x4 #2 SYP @ 16 O.C., 2X6 PLUMBING WALL @ 16" O.C.
Insulation: R-11 UNFACED FIBERGLASS FOR SOUND ATTENUATION
Top Plate: SINGLE
Bottom Plate: SINGLE
Interior Covering: 1/2" VCG MATCHING BATTENS
Base: 4" VINYL COVE BASE THROUGHOUT
FRP: 48" AFF IN RESTROOMS, BEHIND & ADJACENT TO PLUMBING FIXTURES
Mateline: MATELINE JUNCTION 24' 4 LAYER PLYWOOD BEAM OF 3/4" CDX GLUES AND FASTENED

ROOF

Roof Framing: 2x6 #2 SYP @ 16" O.C, SINGLE RIM HEADERS
Insulation: R-38 UNFACED FIBERGLASS INSULATION-FRICTION FIT W/ BACK SUPPORT NETTING
Roof Sheathing: 7/16" MULEHIDE FR DECKING PER ESR 1776
Roof Finish: 045 WHITE EPDM SINGLE PLY EPDM FULLY ADHESIVE AND INSTALLED PER ESR 1463 WITH ALUMINUM DRIP RAIL TO PERIMETER SR:064 3YR / TE:0.87 3YR
Ceiling: 2x4 T-GRID SUSPENDED CEILING (GRIDSTONE TO R.R.) (STAGGERED)

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SCALE:	As indicated	0	ISSUE FOR REVIEW	MAJ	22MAR2019
DRAWN BY:	MAJ	1	ISSUE FOR REVIEW	MAJ	17APR2019
CHECKER:		2	ISSUE FOR PRODUCTION	MAJ	17APR2019
Bid #:	7171397	3			
		4			

PROJECT TITLE:
24' X 56' OFFICE - VESTA (TRUSS)

DRAWING TITLE:
Cross Section

PROJECT NO:
19503-05

SHEET NO:
D01

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BUILDING INNOVATION

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Building Code Council

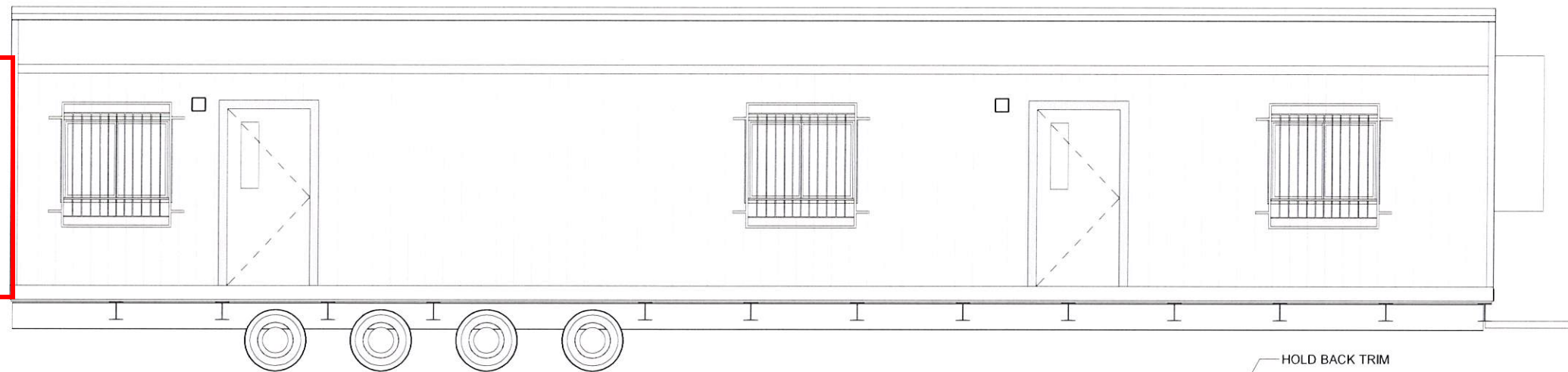
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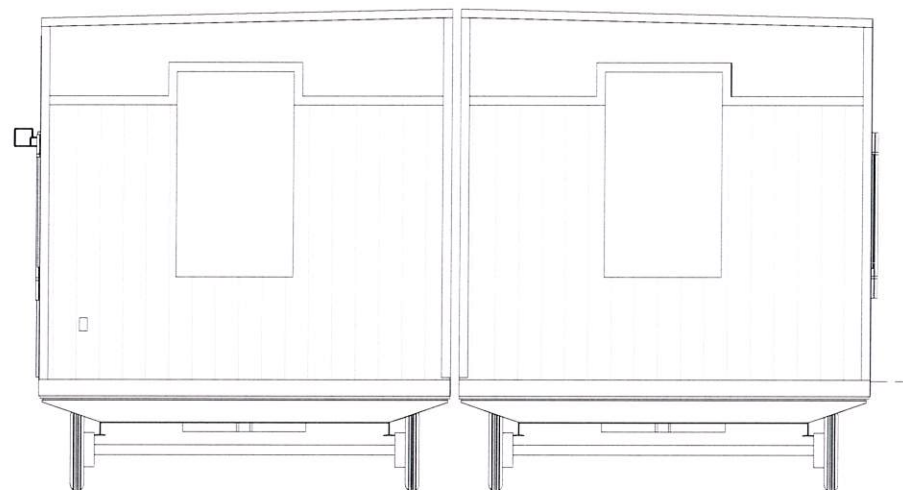
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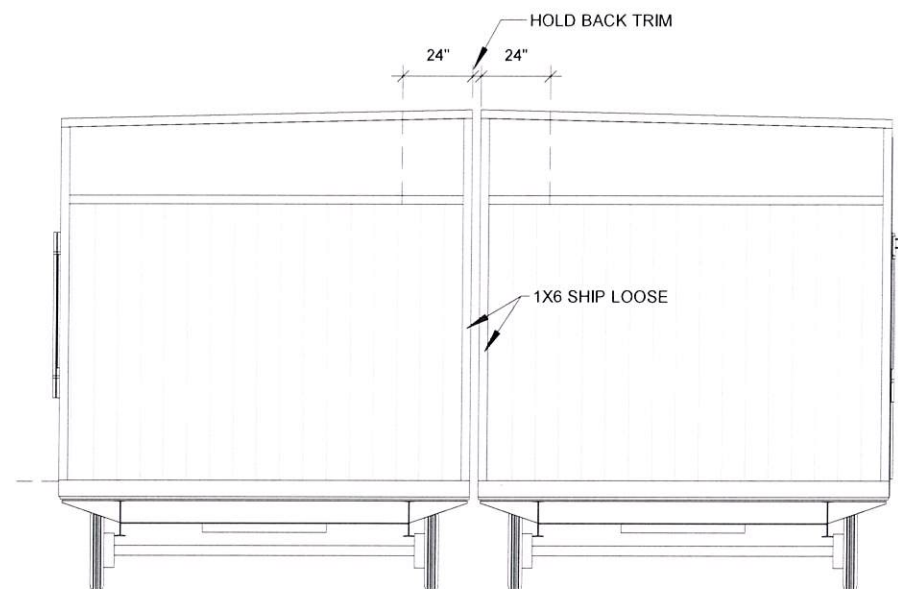
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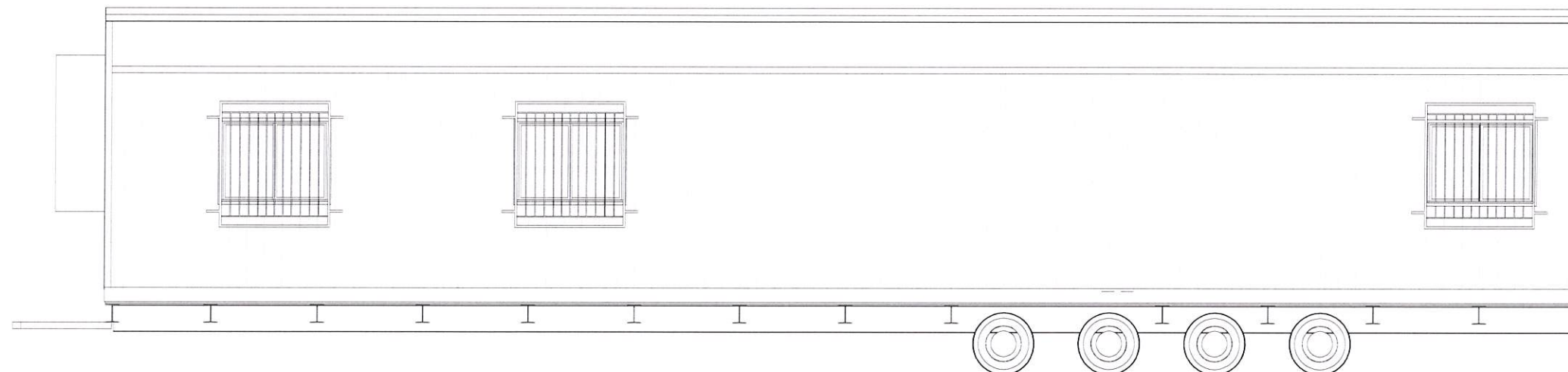
4 North Elevation
3/16" = 1'-0"



2 West Elevation
3/16" = 1'-0"



3 East Elevation
3/16" = 1'-0"



1 South Elevation
3/16" = 1'-0"

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DRAWN BY:	MAJ	1	ISSUE FOR REVIEW	MAJ	17APR2019
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Bid #:	7171397	3			
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PROJECT TITLE:
24' X 56' OFFICE - VESTA (TRUSS)

DRAWING TITLE:
Elevations

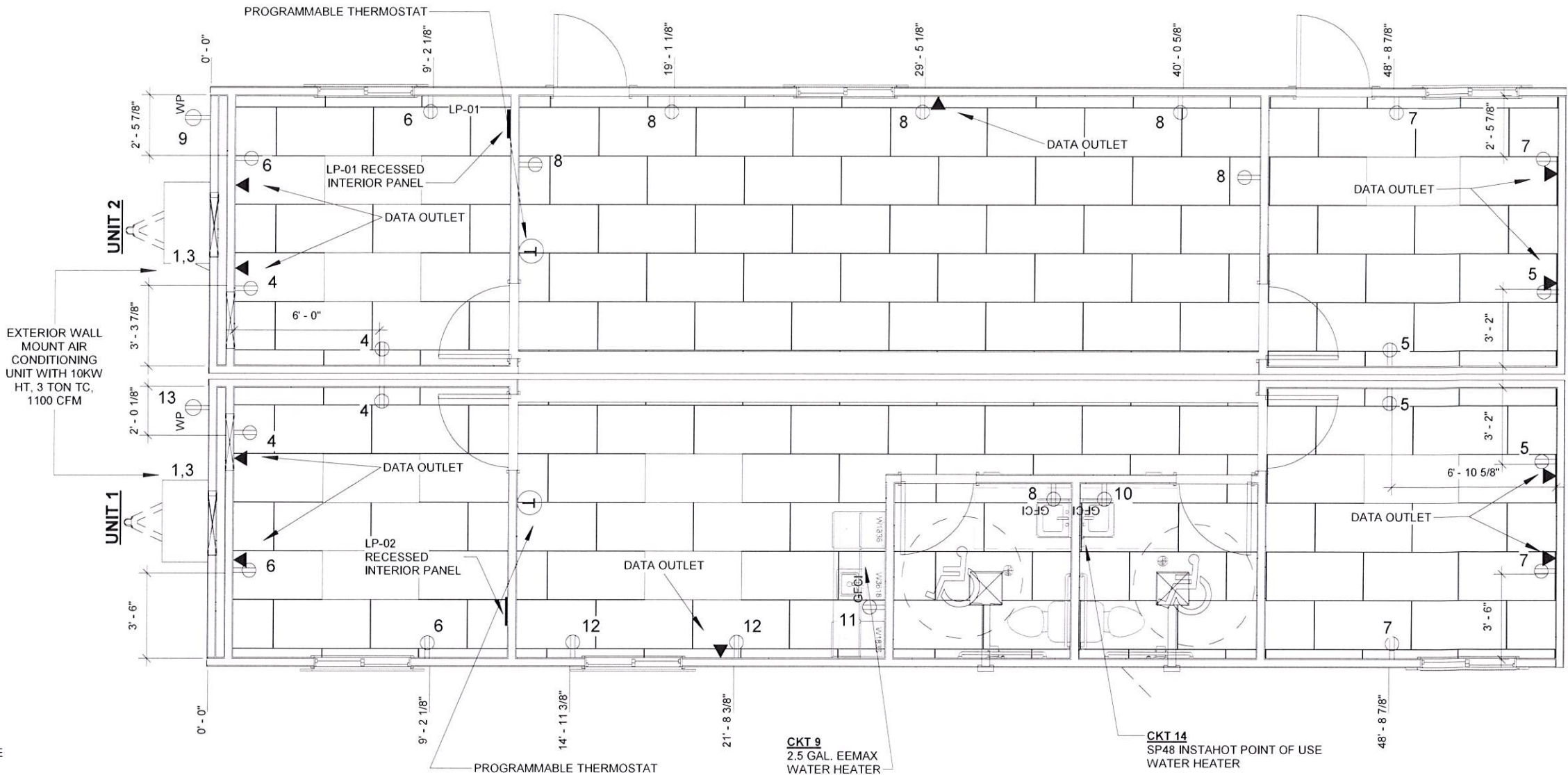
PROJECT NO:
19503-05

SHEET NO:
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BUILDING INNOVATION

SYMBOL	DESCRIPTION
	20A/125 CLASS 'A' QUAD RECEPTACLE
	30A(50A)/125/250V NEMA 14-30R RECEPTACLE
	20A/125V CLASS 'A' GFCI RECEPTACLE
	20A/125V CLASS 'A' WEATHERPROOF GFCI RECEPTACLE
	20A/125V DUPLEX RECEPTACLE C/W USB PORT
	20A/125V DUPLEX RECEPTACLE
	20A/125V SIMPLEX RECEPTACLE
	15A/125V SINGLE POLE SWITCH
	15A/125V 3-WAY SWITCH
	DATA OUTLET (STUBBED ABOVE T-GRID)
	DISCONNECT SWITCH - 20A/1 POLE
	EXHAUST FAN-cfm AS NOTED
	2x4 T-8 FLOURESCENT 3 LAMP
	EXTERIOR WP WALL LIGHT C/W LED LAMP & SWITCH CONTROL- LOW PROFILE
	LOW PROFILE LED
	9V CO DETECTOR @12" AFF
	HEAT/COOL THERMOSTAT
	JUNCTION BOX
	120V INTERCONNECTED SMOKE DETECTOR
	POWER PANEL - NEMA3R

NOTE: GENERIC ELECTRICAL LEGEND INTENDED TO CAPTURE ALL POSSIBLE CIRCUMSTANCES. NOT ALL OBJECTS MAY BE PRESENT IN UNIT



STANDARD OUTLET MOUNTING HEIGHTS

HEIGHT IN INCHES TO BOTTOM OF BOX UNLESS OTHERWISE NOTED

ELECTRICAL BOX TYPE	MTG HT (AFF)	ELECTRICAL BOX TYPE	MTG HT (AFF)
WALL RECEPTACLE	16	PHONE	44
LIGHT SWITCH	44	TELE/DATA OUTLET	16
MICROWAVE RECEPT.	75	WATER HEATER	16
TV RECEPT.	60	EXTERIOR LIGHT	78
ANTENNA BOX	88	EXTERIOR RECEPT.	16
COMMON KITCHEN RECEPT.	42	WASHER	36
LOWER BUNK LIGHT TWIN/FULL	40	DRYER	36
UPPER BUNK LIGHT TWIN/FULL	83	THERMOSTAT - CENTERLINE	60
BUNK LIGHT DIMMER	38	OFFICE UPPER RECEPT.	39
STOVE	16	OFFICE LOWER RECEPT.	16
BEDROOM VALENCE LIGHT	60	VANITY GFI	38
DISHWASHER	16	OFFICE DUPLEX	39

NOTE: DIMENSIONS ARE APPROXIMATE; ALWAYS LOCATE RECEPTS & SWITCHES TO NEAREST STUD

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



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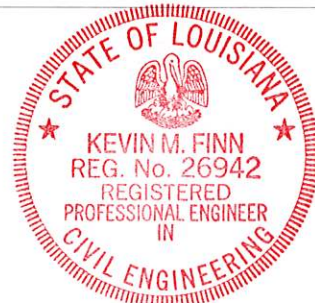
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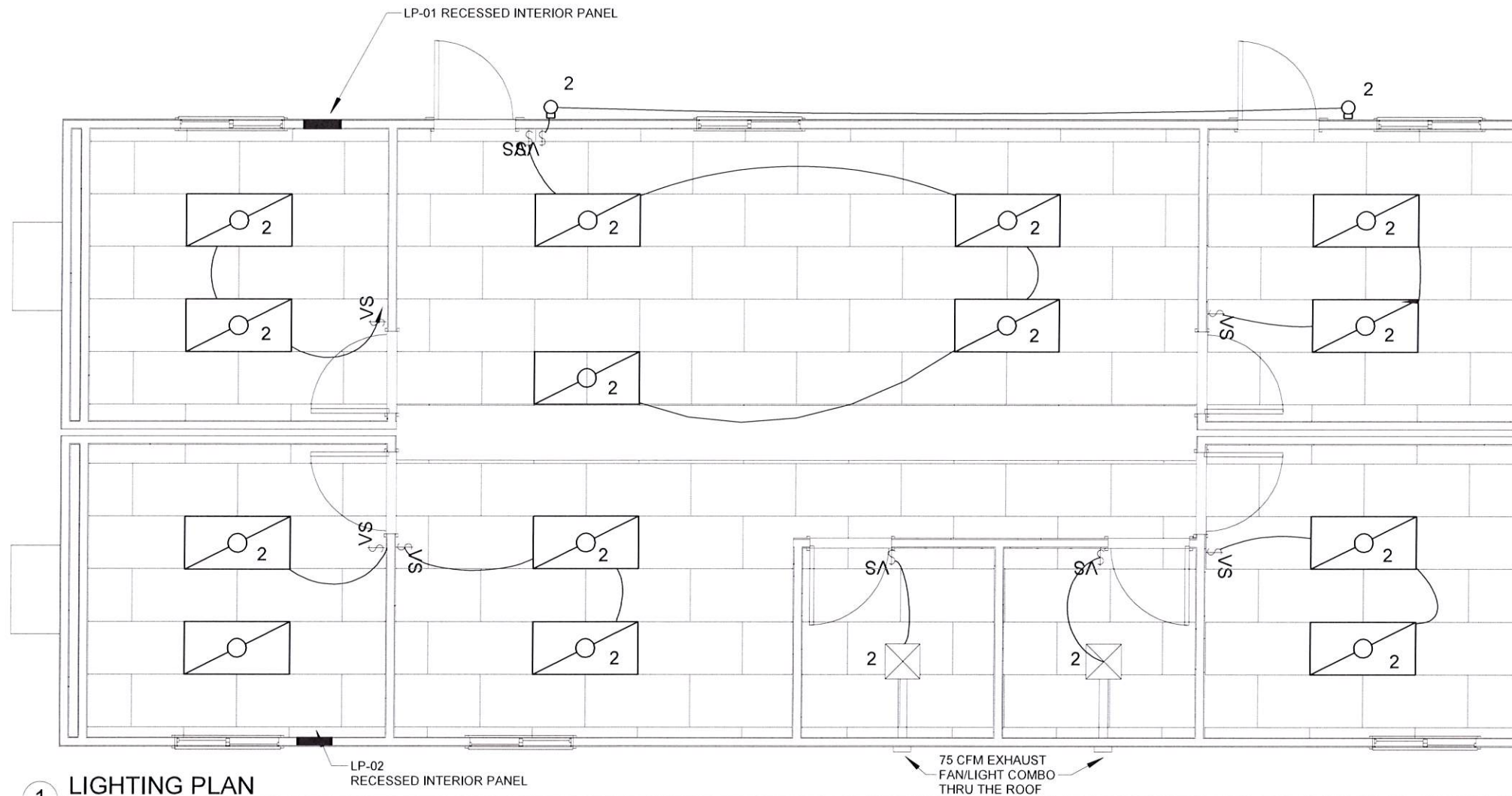
PROJECT TITLE:
24' X 56' OFFICE - VESTA (TRUSS)

DRAWING TITLE:
Electrical Plan

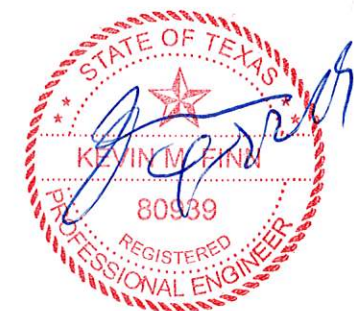
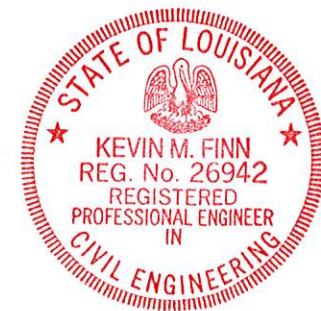
PROJECT NO:
19503-05

SHEET NO:
E01

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



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PROJECT TITLE:
24' X 56' OFFICE - VESTA (TRUSS)

DRAWING TITLE:
Lighting Plan

PROJECT NO:
19503-05

SHEET NO:
E01.2

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BUILDING INNOVATION

LIGHTING FIXTURES SCHEDULE		
Count	Description	Project Notes
14	2x4 SUPER T-8 (3-LAMP) FLUORESCENT TROFFER W/ 32W BULBS - ELECTRONIC BALLAST	
2	60W MOTION SENSING PORCH LIGHT w/ PHOTOCELL	

LIGHTING SWITCHES SCHEDULE		
Count	Description	Project Notes
9	15A/125V SINGLE POLE SWITCH W/ VACANCY SENSOR	

ELECTRICAL EQUIPMENT SCHEDULE		
Count	Description	Project Notes
2	INTERIOR RECESSED POWER PANEL - 100A	

ELECTRICAL FIXTURES SCHEDULE		
Count	Description	Project Notes
2	20A/125V CLASS "A" WEATHERPROOF GFCI RECEPTACLE	
23	20A/125V DUPLEX RECEPTACLE	
3	20A/125V GFCI RECEPTACLE	
1	HEAT/COOL THERMOSTAT	
10	TELE/DATA OUTLET	
1	THERMOSTAT - DIGITAL 7-DAY PROGRAMMABLE	

MECHANICAL EQUIPMENT		
Count	Description	Project Notes
2	Bard Wall Hung Unit: 3 Ton	
2	Fan light combo: 2'x4'(2 Lamp) - 120V	

ELECTRICAL NOTES:

1. WIRING METHOD TO BE MC CABLE, COPPER, HOME RUN TO BE EMT CONDUIT W/ COPPER WIRE, MINIMUM #12AWG
2. BLANK SPACES IN PANEL MAY BE OMITTED TO MAKE US OF SMALLER PANELS. BREAKER SIZE AND QUANTITY SHALL REMAIN THE SAME.
3. ALL ELECTRICAL CONNECTIONS TO BE MOUNTED 14" AFF UNLESS OTHERWISE SPECIFIED. ALL HEIGHTS ARE MEASURED TO THE BOTTOM OF BOX.
4. TELE/DATA OUTLETS ARE TO HAVE A 3/4" FLEXIBLE CONDUIT STUBBED UP INTO THE CEILING SPACE UNLESS NOTED.
5. ALL CONDUIT TO CONTAIN AN INSULATED GROUND CONDUCTOR SIZED AS REQUIRED BY 2015 N.E.C., MINIMUM #14 AWG.
6. ELECTRICAL INSTALLATION SHALL BE IN COMPLIANCE WITH 2015 N.E.C.
7. ALL WIRING IN RETURN AIR PLENUMS SHALL MEET RATING REQUIREMENTS OF 2015 N.E.C.
8. MOUNTING HEIGHTS FOR ALL WALL MOUNTED DEVICES SHALL BE FROM FLOOR TO BOTTOM OF DEVICE BOX
9. ALL 125 VOLT, 15&20 AMP RECEPTACLES SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES (2015 N.E.C., ART. 406-11)
10. ALL CIRCUITS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER (COMB. TYPE)
11. REMOVE ALL GROUNDING BONDS FROM APPLIANCES.

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Load Calculations LP-01		
Lighting Load 658 sqft. x 3	1 974 VA	
Heating Load 1 @ 10kw	10 000 VA	
Total	11 974 VA	
Minimum Service Size		
11 974/240 V	49.9 Amps	

Load Calculations LP-02		
Lighting Load 658 sqft. x 3	1 974 VA	
DHW 1 @ 4.5kw	4 500 VA	
Heating Load 1 @ 10kw	10 000 VA	
Total	16 474 VA	
Minimum Service Size		
16 474 /240 V	68.64 Amps	

LP-01									
100A, 120/240V, 1 DIA, 3w 60Hz Panelboard c/w 2p 60A MLO NEMA3r 2" EMT Stub Down Incoming Power									
Leg	Wire	CKT	Load Name	Rating/ # Poles	Rating/ # Poles	Load Name	CKT	Wire	Leg
		1	HVAC	60 A/2/	20 A/1/	Lighting	2		
		3	--	--	20 A/1/	Office 1 Recept 1	4		
		5	Office 2 Recept 1	20 A/1/	20 A/1/	Office 1 Recept 2	6		
		7	Office 2 Recept 2	20 A/1/	20 A/1/	Recepts	8		
		9	Wp Recept	20 A/1/			10		
		11					12		

LP-02									
100A, 120/240V, 1 DIA, 3w 60Hz Panelboard c/w 2p 100A MLO NEMA3r 2" EMT Stub Down Incoming Power									
Leg	Wire	CKT	Load Name	Rating/ # Poles	Rating/ # Poles	Load Name	CKT	Wire	Leg
		1	HVAC	60 A/2/	20 A/1/	Lighting	2		
		3	--	--	20 A/1/	Office 1 Recept 1	4		
		5	Office 2 Recept 1	20 A/1/	20 A/1/	Office 1 Recept 2	6		
		7	Office 2 Recept 2	20 A/1/	20 A/1/	Vanity GFCI	8		
		9	Water Heater	20 A/1/	20 A/1/	Vanity GFCI	10		
		11	Bar Sink GFCI	20 A/1/	20 A/1/	Recept	12		
		13	WP Recept	20...	20...	INSTAHOT	14		
		15			--	--	16		
		17					18		

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Bid #:	7171397	3			
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PROJECT TITLE:
24' X 56' OFFICE - VESTA (TRUSS)

DRAWING TITLE:
Electrical Notes

PROJECT NO:
19503-05

SHEET NO:
E02

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Approval Date:
4/24/19

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DESCRIPTION	SPACING	FASTENER
MOBILE FLEX TO JOIST FLOOR, WALL, & ROOF	3" O.C. PERIMETER	16 GA. 1-1/4" X 1
JOIST TO PLATE 2X4	3 PER JOIST	3" X .131 FRAMING NAIL
JOIST TO PLATE 2X6	3 PER JOIST	3" X .131 FRAMING NAIL
JOIST TO PLATE 2X8	4 PER JOIST	3" X .131 FRAMING NAIL
JOIST TO PLATE 2X10	4 PER JOIST	3" X .131 FRAMING NAIL
JOIST TO PLATE 2X12	5 PER JOIST	3" X .131 FRAMING NAIL
DOUBLE RIM JOIST	4" O.C. STAGGERED	3" X .131 FRAMING NAIL
DOUBLE TOP PLATE	4" O.C. STAGGERED	3" X .131 FRAMING NAIL
3/8" OSB/PLYWOOD TO JOIST	4" O.C. ON EDGE 8" O.C. FIELD	15 GA. 2-1/2" X 7/16" STAPLE
7/16" OSB/PLYWOOD TO JOIST	4" O.C. ON EDGE 8" O.C. FIELD	15 GA. 2-1/2" X 7/16" STAPLE
7/16" OSB/PLYWOOD TO STUD (SHEAR WALLS)	4" O.C. ON EDGE 8" O.C. FIELD	15 GA. 2-1/2" X 7/16" STAPLE
1/2" OSB/PLYWOOD TO JOIST	4" O.C. ON EDGE 8" O.C. FIELD	15 GA. 2-1/2" X 7/16" STAPLE
5/8" T&G PLYWOOD TO JOIST	4" O.C. ON EDGE 8" O.C. FIELD	15 GA. 2-1/2" X 7/16" STAPLE
	16" O.C. ON EDGE 16" O.C. FIELD	#8 X 1-3/4" WOODSCREW
3/4" 5/8" T&G PLYWOOD TO JOIST	4" O.C. ON EDGE 8" O.C. FIELD	15 GA. 2-1/2" X 7/16" STAPLE
	16" O.C. ON EDGE 16" O.C. FIELD	#8 X 1-3/4" WOODSCREW
1/2" CDX TO JOIST	6" O.C. ON EDGE 12" O.C. FIELD	7/16" X 1-1/2" STAPLE
SMARTPANEL TO STUD	6" O.C. ON EDGE 12" O.C. FIELD	WIRE COIL NAIL 2-1/4" X .092
MESA SIDING TO STUD	BOTTOM, MIDDLE, TOP EVERY LOW PANEL	1-1/2" WOODGRIP SCREW
LOW RIB SIDING TO STUD	BOTTOM, MIDDLE, TOP EVERY LOW PANEL	1-1/2" WOODGRIP SCREW
7/16" FR DECKING TO JOIST	CONTINUOUS	HENKEL MB/44 ADHESIVE
	4" O.C. ON EDGE 8" O.C. FIELD	15 GA. 2-1/2" X 7/16" STAPLE
	16" O.C. ON EDGE 16" O.C. FIELD	#8 X 1-3/4" WOODSCREW
1/2" VCG	8" O.C. ON EDGE	7/16" X 1-1/2" STAPLE
	SOLID BEAD DOWN FIELD STUD	FOAM ADHESIVE
5/8" VCG	8" O.C. ON EDGE	7/16" X 1-1/2" STAPLE
	SOLID BEAD DOWN FIELD STUD	FOAM ADHESIVE
1/2" PLAIN GYPSUM	12" O.C. ON EDGE 12" O.C. FIELD	#6 X 1-5/8" DRYWALL SCREW
5/8" PLAIN GYPSUM	12" O.C. ON EDGE 12" O.C. FIELD	#6 X 1-5/8" DRYWALL SCREW
WALL TO FLOOR	48" O.C.	5/16" X 5" LAG W/ WASHER
	2 PER FRAMING CELL	3" X .131 FRAMING NAIL
WALL TO FLOOR (SHEAR WALLS)	48" O.C.	(2) - 5/16" X 5" LAG W/ WASHER
	2 PER FRAMING CELL	3" X .131 FRAMING NAIL
WALL TO WALL	24" O.C.	5/16" X 3" LAG W/ WASHER
	12" O.C.	3" X .131 FRAMING NAIL
WALL TO ROOF	48" O.C.	5/16" X 5" LAG W/ WASHER
	2 PER FRAMING CELL	3" X .131 FRAMING NAIL
WALL TO ROOF (SHEAR WALLS)	48" O.C.	(2) - 5/16" X 5" LAG W/ WASHER
	2 PER FRAMING CELL	3" X .131 FRAMING NAIL
HURRICANE STRAP TO WALL PLATE CHORD TO SPLICE	SEE F02	1.496" FAB38V5
2X4	CENTERED AT SPLICE	3X5 MITEK TRUSS PLATE
2X6	CENTERED AT SPLICE	3X5 MITEK TRUSS PLATE
2X8	CENTERED AT SPLICE	5X6 MITEK TRUSS PLATE
2X10	CENTERED AT SPLICE	5X6 MITEK TRUSS PLATE
2X12	CENTERED AT SPLICE	5X6 MITEK TRUSS PLATE
OUTRIGGER TO JOIST	EVERY OUTRIGGER	1-3/8" X 3" LAG BOLT W/ WASHER
FLOOR SILL TO FRAME	1 PER CORNER OF BUILDING	1-3/8" X 10" CARRIAGE BOLT
JOIST TO FRAME	EVERY 48" LENGTH OF BUILDING	1-3/8" X 10" UBOLT
HEADER DESCRIPTION	MATERIAL	
0-4' ROUGH OPENING	2 - 2X4 #2 SYP SANDWICH W/ 1/2" PLYWOOD	
	2 - 2X4 #2 SYP JACK STUD	
	2 - 2X4 #2 SYP KING STUDS	
4-6' ROUGH OPENING	2 - 2X6 #2 SYP SANDWICH W/ 1/2" PLYWOOD	
	2 - 2X4 #2 SYP JACK STUD	
	2 - 2X4 #2 SYP KING STUDS	

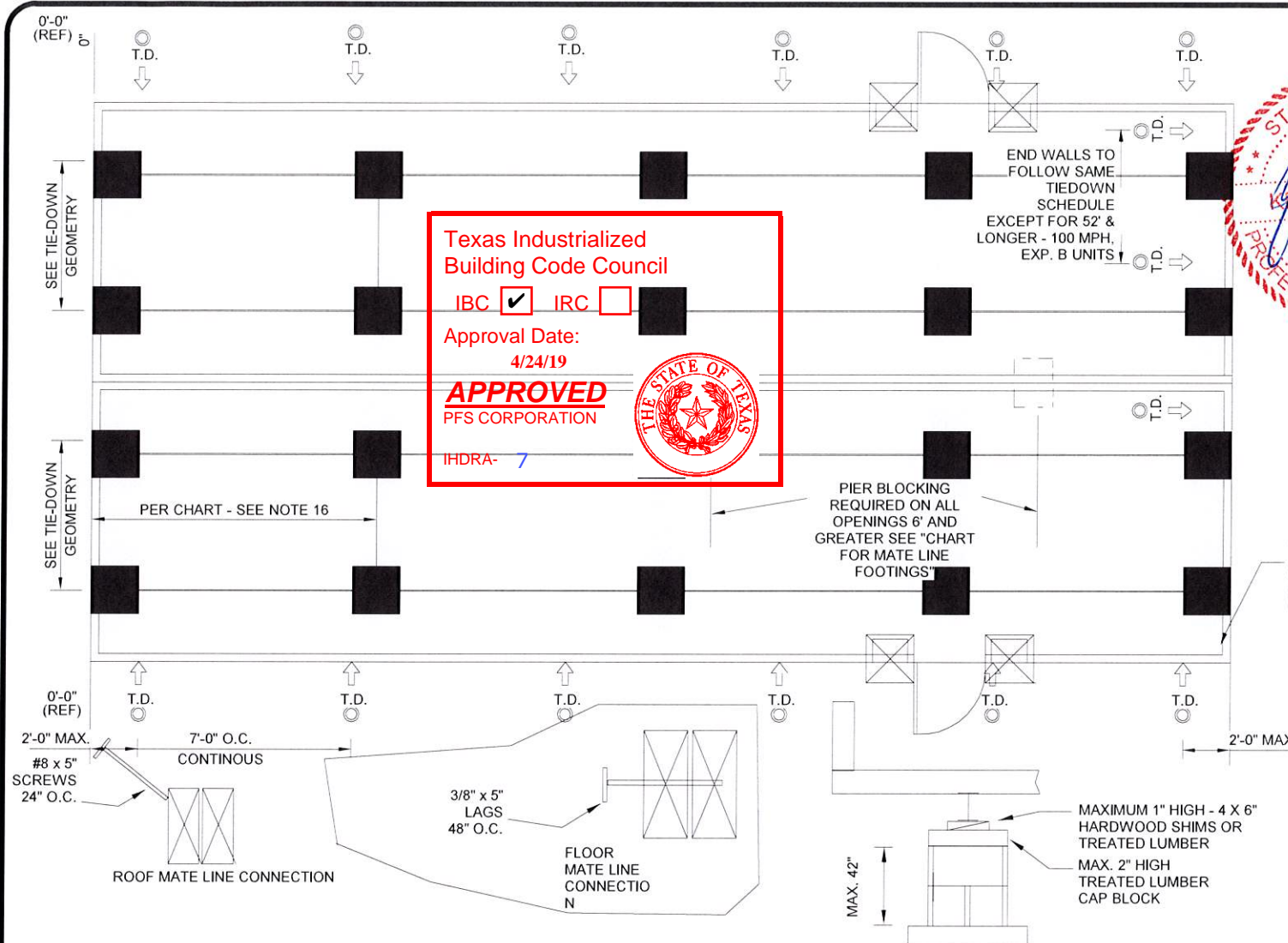


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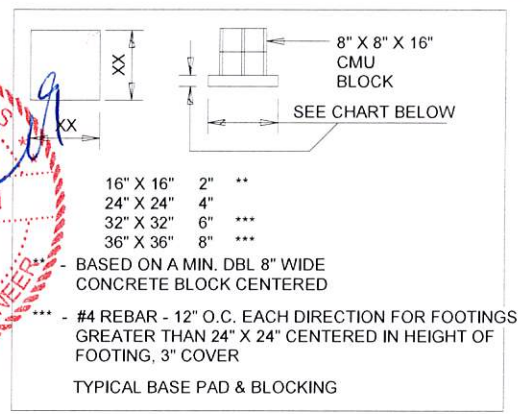
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Bid #:	7171397	3			
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PROJECT TITLE:	24' X 56' OFFICE - VESTA (TRUSS)	
DRAWING TITLE:	Fastening Schedule	
PROJECT NO:	19503-05	SHEET NO: F01



- NOTES:
- THE MAXIMUM SUPPORT SPACING IS SHOWN BASED ON I-BEAM CAPACITY AND THE STANDARD LOADING CONDITIONS OF 20 PSF ROOF LIVE LOAD AND 100 PSF FLOOR LIVE LOAD.
 - THIS FOUNDATION DESIGN IS BASED ON SOIL BEARING CAPACITY PER CHART
 - SOIL CAPACITY BASED ON A PLASTICITY INDEX OF 20. NO CONSIDERATION HAS BEEN GIVEN TO GROUNDWATER OR OTHER CONDITIONS THAT MAY AFFECT FOUNDATION STABILITY OR DIFFERENTIAL MOVEMENT. IT IS RECOMMENDED THAT A REGISTERED PROFESSIONAL ENGINEER BE CONSULTED FOR THE SPECIFIC SITE CONDITIONS
 - CORROSION PROTECTION WILL BE IN ACCORDANCE WITH CODE
 - THIS IS A TEMPORARY FOUNDATION ONLY
 - N/A
 - PAD REINFORCING CALCULATIONS TO BE BY REGISTERED ENGINEER. SEE REBAR INSTALLATION IF GREATER THAN 24" x 24" FOOTING.
 - BLOCKING TO BE PLACED AS PER CHART
 - TIEDOWN STRAP & DBL. STRAP ANCHOR TO BE WITHIN 2'-0" FROM END OF UNIT
 - TIEDOWN STRAP & DBL. STRAP ANCHOR SPACING TO BE NO MORE THAN 12'-0" APART
 - TIEDOWN STRAP & DBL. STRAP ANCHOR SPACING TO BE ON EXTERIOR SIDE ONLY IF BUILDING IS A MULTIPLE UNIT COMPLEX UNLESS OTHERWISE NOTED.
 - N/A
 - EACH DIAGONAL STRAP TO BE DOUBLE STRAP ONLY FOR 12' O.C. STRAP SPACING FOR LOCATIONS IN 130 MPH, EXP. B ZONE, OTHERWISE SINGLE STRAP IS ADEQUATE.
 - PIER DEAD LOAD ASSUMED TO BE 300 LBS
 - RECOMMENDED BLOCKING FOR EXTERIOR DOOR - MIN FTG - 16" X 16" - PER FLOOR PLAN AND ALL OPENINGS GREATER THAN 4'
 - FOOTING SIZE TO BE DETERMINED BASED ON UNIT WIDTH, SOIL BEARING CAPACITY, AND PIER SPACING. PIER SPACING NOT TO EXCEED I-BEAM SIZE CHART.
- INDICATES I-BEAM MAXIMUM BLOCKING DISTANCE AS PER CHART
- DENOTES TIEDOWN STRAP LOCATION ON UNIT
- DENOTES STRAP ANCHOR RATED 3150 LBS FOR COMBINED ANGLES OF STRAPS



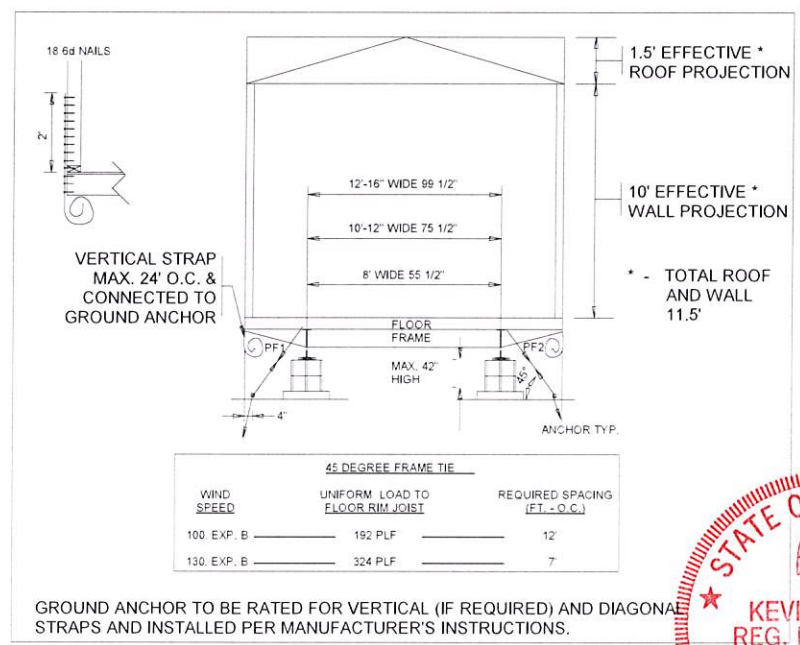
UNIT WIDTH
THIS CHART BASED ON I-BEAM CAPACITY ONLY

I-BEAM SIZE	8'	10' - 12'	14' - 16'
8"	8'-0" O.C.	8'-0" O.C.	8'-0" O.C.
10"	10'-0" O.C.	10'-0" O.C.	10'-0" O.C.
12"	12'-0" O.C.	12'-0" O.C.	12'-0" O.C.

BLOCKING DISTANCE

CHART FOR MATE LINE FOOTINGS
SHOWS ONE SIDE (IN) OF SQUARE FOOTING

UNIT WIDTH	ROOF LIVE LOAD	SOIL BEAR CAP.	MATE WALL CLEAR SPAN (FT)							
			6	10	14	18	22	26	30	34
11' 9"	20 PSF	2000 PSF	11.1	13.2	15.0	16.6	18.1	19.4	20.7	21.9
		3000 PSF	12.5	15.0	17.1	19.0	20.7	22.3	23.7	25.1
13' 9"	20 PSF	2000 PSF	9.1	10.8	12.2	13.5	14.7	15.9	16.9	17.9
		3000 PSF	10.2	12.2	14.0	15.5	16.9	18.2	19.4	20.5
15' 9"	20 PSF	2000 PSF	11.8	14.1	16.1	17.8	19.4	20.9	22.3	23.6
		3000 PSF	9.7	11.5	13.1	14.6	15.9	17.1	18.2	19.3
17' 9"	20 PSF	2000 PSF	13.4	16.1	18.4	20.4	22.3	24.0	25.6	27.1
		3000 PSF	11.0	13.1	15.0	16.7	18.2	19.6	20.9	22.1
19' 9"	20 PSF	2000 PSF	12.6	15.0	17.1	19.0	20.7	22.3	23.8	25.2
		3000 PSF	10.3	12.3	14.0	15.5	16.9	18.2	19.4	20.6
21' 9"	20 PSF	2000 PSF	14.2	17.1	19.6	21.8	23.8	25.6	27.3	28.9
		3000 PSF	11.6	14.0	16.0	17.8	19.4	20.9	22.3	23.6



FOOTING SIZE - SQ. FOOTING ASSUMED - EACH LEG IS CALCULATED

UNIT WIDTH - 11'-9"

PIER SPACING (FT)	1000 PSF	2000 PSF	3000 PSF
5	1.787 FT	1.264 FT	1.032 FT
6	1.942 FT	1.373 FT	1.121 FT
7	2.086 FT	1.475 FT	1.204 FT
8	2.220 FT	1.570 FT	1.282 FT
9	2.347 FT	1.660 FT	1.355 FT
10	2.467 FT	1.745 FT	1.424 FT
11	2.582 FT	1.826 FT	1.491 FT
12	2.692 FT	1.903 FT	1.554 FT

FOOTING SIZE - SQ. FOOTING ASSUMED - EACH LEG IS CALCULATED

UNIT WIDTH - 13'-9"

PIER SPACING (FT)	1000 PSF	2000 PSF	3000 PSF
5	1.909 FT	1.350 FT	1.102 FT
6	2.077 FT	1.468 FT	1.199 FT
7	2.232 FT	1.578 FT	1.289 FT
8	2.377 FT	1.681 FT	1.372 FT
9	2.514 FT	1.777 FT	1.451 FT
10	2.643 FT	1.869 FT	1.526 FT
11	2.767 FT	1.957 FT	1.598 FT
12	2.885 FT	2.040 FT	1.666 FT

FOOTING SIZE - SQ. FOOTING ASSUMED - EACH LEG IS CALCULATED

UNIT WIDTH - 15'-9"

PIER SPACING (FT)	1000 PSF	2000 PSF	3000 PSF
5	2.023 FT	1.431 FT	1.168 FT
6	2.203 FT	1.558 FT	1.272 FT
7	2.369 FT	1.675 FT	1.368 FT
8	2.524 FT	1.785 FT	1.457 FT
9	2.670 FT	1.888 FT	1.541 FT
10	2.808 FT	1.986 FT	1.621 FT
11	2.940 FT	2.079 FT	1.698 FT
12	3.067 FT	2.169 FT	1.771 FT

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1101 Foundation Dr., Waco, TX 76712
Tel (254) 741-6701

DATE:	22MAR2019	#	DESCRIPTION	BY	DATE
SCALE:	As indicated	0	ISSUE FOR REVIEW	MAJ	22MAR2019
DRAWN BY:	MAJ	1	ISSUE FOR REVIEW	MAJ	17APR2019
CHECKER:		2	ISSUE FOR PRODUCTION	MAJ	17APR2019
Bid #:	7171397	3			
		4			

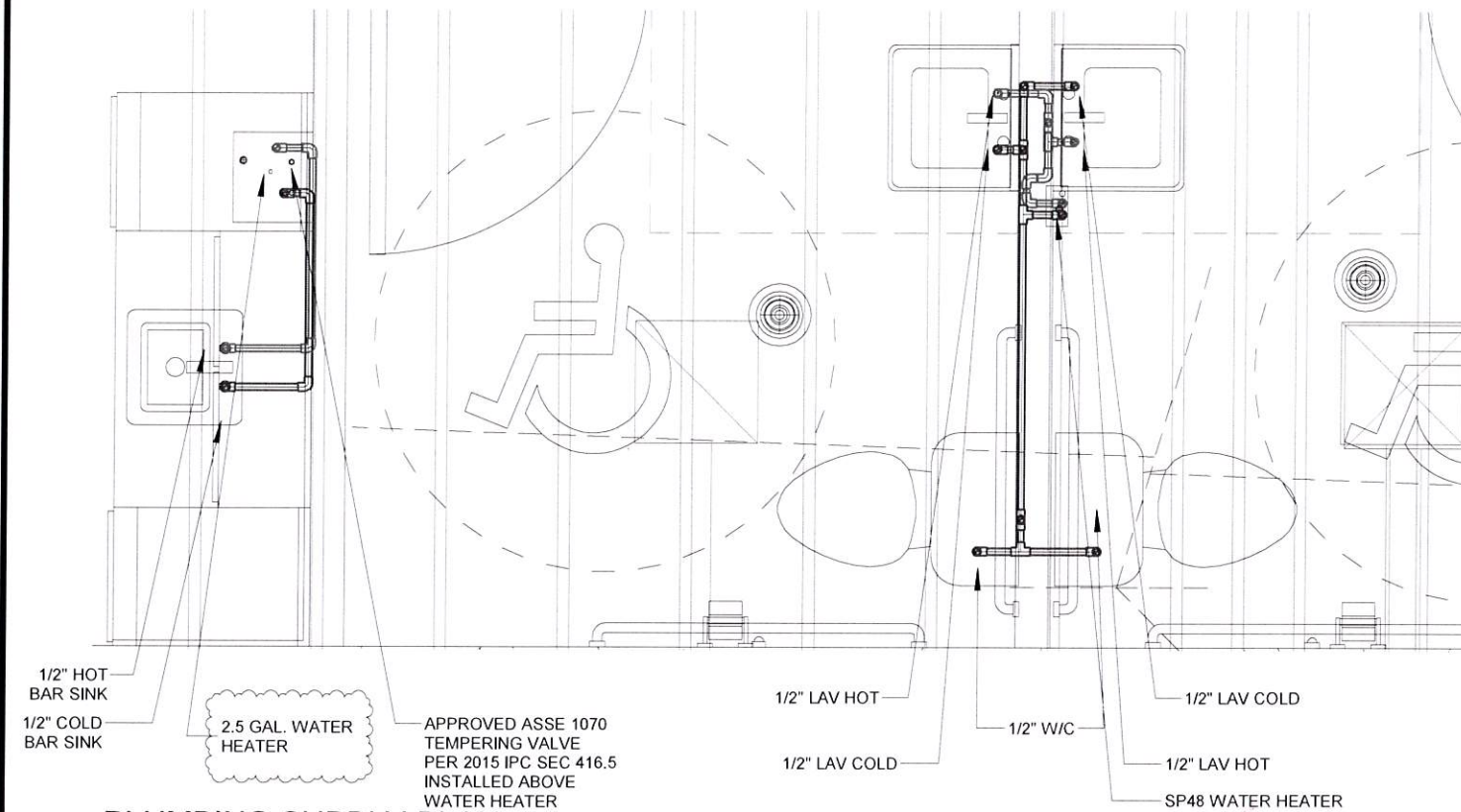
PROJECT TITLE:
24' X 56' OFFICE - VESTA (TRUSS)

DRAWING TITLE:
Foundation Page

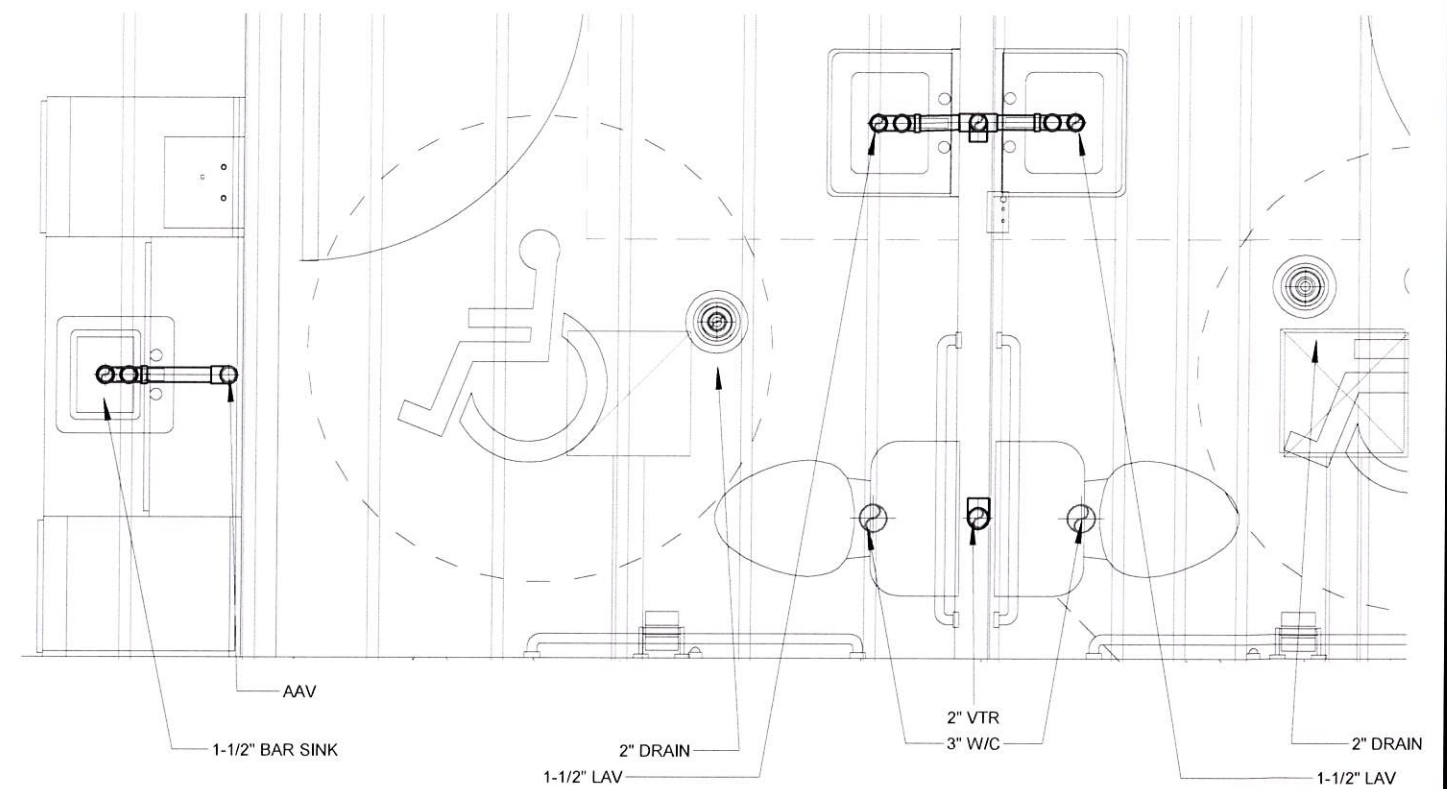
PROJECT NO:
19503-05

SHEET NO:
F02





3 PLUMBING SUPPLY PLAN
1/2" = 1'-0"



4 PLUMBING SANITARY PLAN
1/2" = 1'-0"

DRAINAGE PIPING SCHEMATIC

- SEWER LINES TO BE PVC
- VENTS, MAY BE COMBINED BEFORE PENETRATING ROOF
- ALL DRAINS ARE STUBBED THROUGH FLOOR ONLY FOR CONNECTION ON SITE BY OTHERS

WATER PIPING SCHEMATIC

- HOT & COLD WATER LINES ARE TO BE 'PEX'
- ALL PLUMBING LINES TO BE CONCEALED WHERE POSSIBLE
- SHUT OFF VALVES REQUIRED AT ALL FIXTURES
- EXPOSED HOT WATER AND DRAIN LINES UNDER LAV AND SINK SHALL BE INSULATED
- INSTALL ASSE 1070 TEMPERING VALVE ABOVE W/H AS REQUIRED BY IPC 416.5
- WATER HEATER SHALL COMPLY WITH IECC SECTION 504
- LAV CONTROLS SHALL COMPLY WITH 2012 TAS SECTION 309.4 LEVER ONLY



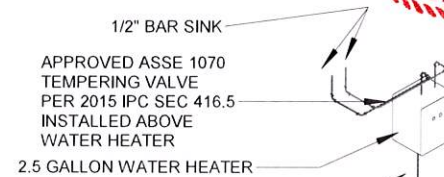
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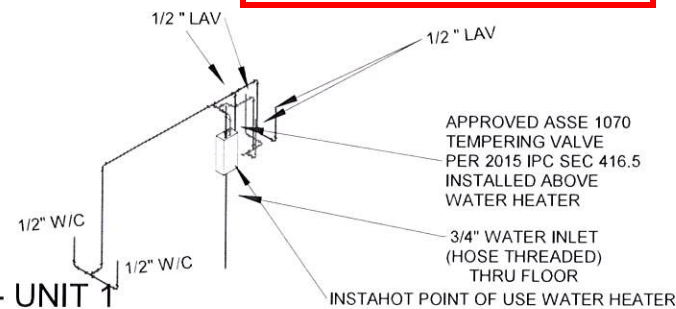
Approval Date:
4/24/19

APPROVED
PFS CORPORATION

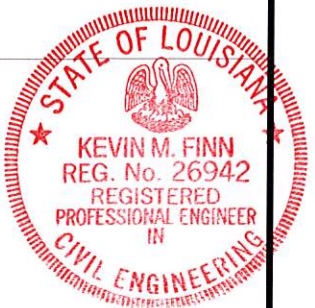
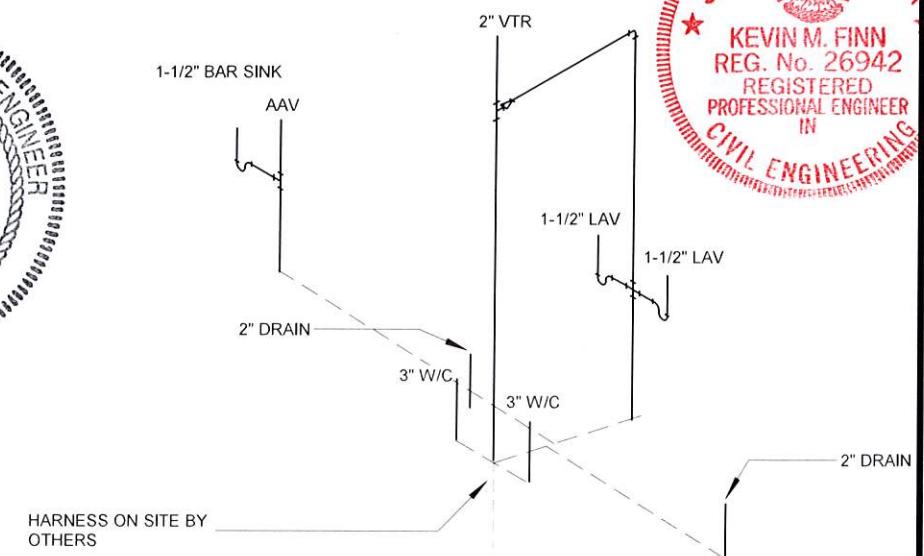
IHDRA- 7



1 PLUMBING SUPPLY ISO - UNIT 1



2 PLUMBING SEWER ISO - UNIT 1



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SCALE:	1/2" = 1'-0"	0	ISSUE FOR REVIEW	MAJ	22MAR2019
		1	Revision 1		Date 1
DRAWN BY:	MAJ	1	ISSUE FOR REVIEW	MAJ	17APR2019
CHECKER:		2	ISSUE FOR PRODUCTION	MAJ	17APR2019
Bid #:	7171397	3			
		4			

PROJECT TITLE:
24' X 56' OFFICE - VESTA (TRUSS)

DRAWING TITLE:
Plumbing Plan

PROJECT NO:
19503-05

SHEET NO:
M01

britco
BUILDING INNOVATION

- OPTIONS:**
- SECURITY BARS
 - DOOR BARS
 - STEPS (PROVIDED BY CLIENT)
 - MANIFOLD WASTE TO ONE DROP

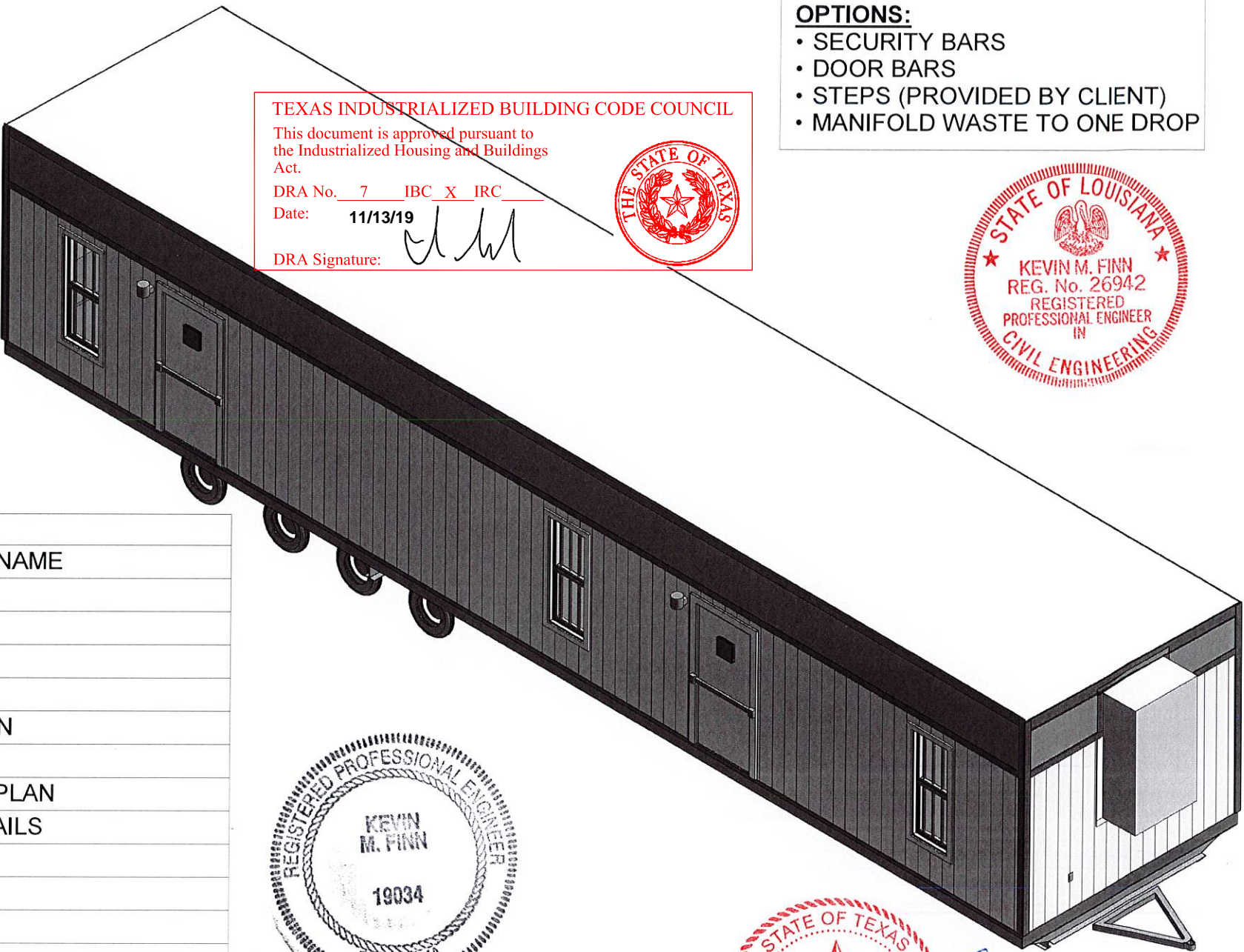
TEXAS INDUSTRIALIZED BUILDING CODE COUNCIL

This document is approved pursuant to the Industrialized Housing and Buildings Act.

DRA No. 7 IBC X IRC

Date: 11/13/19

DRA Signature: 



BUILDING CODES	
LEGAL JURISDICTION	TEXAS
BUILDING CODE	2015 IBC
ELECTRICAL CODE	2014 NEC
PLUMBING CODE	2015 IPC
MECHANICAL CODE	2015 IMC
ENERGY CODE	2015 IECC
ACCESSIBILITY STANDARDS	2012 TAS
OCCUPANCY CLASSIFICATION <u>B</u>	
OCCUPANT LOAD	6
TYPE OF CONSTRUCTION	VB
LIVE LOADS:	
OFFICES	50 PSF / 2000 LBS CONCENTRATED LOAD
ROOF LIVE LOAD	20 PSF
WIND LOAD	WIND SPEED -MPH: 140Vult/ 108Vasd
EXPOSURE	B
RISK FACTOR	II
GROUND SNOW LOAD	10 PSF
SEISMIC DESIGN	CATEGORY D
GAS TYPE	NONE
GENERAL NOTES	
1. BUILDING DESIGNED TO BE A MIN OF 10' FROM PROPERTY LINE OR ASSUMED PROPERTY LINE	
2. EXTERIOR ACCESSIBILITY FEATURES ON SITE BY OWNER	
3. ON PANEL BOX USE #4 BARE COPPER WIRE FROM GROUNDING LUG ON PANEL BOX TO SOLDERLESS GROUNDING BOLD THRU FRAME. EMPTY 1/2" PVC RACE WAY. (SAME LENGTH) AS ENTRANCE) FOR CUSTOMER INSTALLED GROUND WIRE.	
4. SERVICE GROUND PER NEC 2014 ARTICLE 250.50 BY OWNER ON SITE	
5. VENTILATION OF ATTIC SHALL BE PER SECTION 1203.2 OF THE 2015 IBC, AS REQUIRED	
6. THE FOUNDATION VENTILATION AS PER SECTION 1203.3.1 OF THE 2015 IBC, AS REQUIRED	
7. MINIMUM CLEAR AISLE WIDTH SHALL NOT BE LESS THAN 36 INCHES AS PER SECTION 1013.4.1 OF THE 2015 IBC	
8. SERVICE SINK IS TO BE AVAILABLE IN ANOTHER BUILDING ON THE SITE OR BE ADDED AS REQUIRED BY LOCAL OFFICIALS	
9. ACCESSIBLE TOILET ROOMS SHALL BE LOCATED ON SITE WITHIN 500' TRAVEL DISTANCE ON AN ACCESSIBLE ROUTE.	
10. WATER HEATER SHALL COMPLY WITH 2015 IECC SEC. 504	
11. UNIT CANNOT BE PLACED IN AREAS WHERE GROUND SNOW LOAD EXCEEDS DESIGN CRITERIA INDICATED ABOVE	
12. IF CONCENTRATED FLOOR LOAD IS REQUIRED, ADDITIONAL BLOCKING SHALL BE INSTALLED IN ACCORDANCE WITH LOAD REQUIREMENTS OF IBC 2015 SEC. 1607 AS REQUIRED	
13. ACCESSIBLE DRINKING FOUNTAIN TO BE PROVIDED ON SITE BY OWNER WITHIN 500 FEET OF ACCESSIBLE ROUTE.	
14. ANY REQUIRED FIRE/SMOKE DETECTION AND/OR SUPPRESSION SYSTEM TO BE INSTALLED BY OTHER ON SITE IN ACCORDANCE WITH IBC AND IFC.	
15. THE COMPLETED DATA PLATE IS ATTACHED IN THE VICINITY OF THE ELECTRICAL PANEL BOX. STATE LABEL IS AFFIXED TO THE BUILDING ON THE BOTTOM LEFT SIDE OF THE REAR WALL OF THE BUILDING.	
16. PLAN MAY BE MIRROR IMAGE.	
17. IF BUILDING IS PLACED IN A WIND BORNE REGION, IT IS THE RESPONSIBILITY OF THE OWNER TO PROVIDE AND INSTALL PROTECTION OF OPENINGS, IN ACCORDANCE WITH SECTION 1609.1.2 OF THE 2015 IBC.	

BUILDING CODES	
LEGAL JURISDICTION	OKLAHOMA
BUILDING CODE	2015 IBC W/ AMENDMENTS
ELECTRICAL CODE	2014 NEC
PLUMBING CODE	2015 IPC
MECHANICAL CODE	2015 IMC
ENERGY CODE	2015 IECC
ACCESSIBILITY	ICC ANSI A117.1-2003
OCCUPANCY CLASSIFICATION <u>B</u>	
OCCUPANT LOAD	6
TYPE OF CONSTRUCTION	VB
LIVE LOADS:	
OFFICES	50 PSF / 2000 LBS CONCENTRATED LOAD
ROOF LIVE LOAD	20 PSF
WIND LOAD	WIND SPEED -140 MPH / 108MPH VULT EXP. B
GROUND SNOW LOAD	10 PSF
SEISMIC DESIGN	CATEGORY C
GAS TYPE	NONE
BUILDING CODES	
LEGAL JURISDICTION	LOUISIANA
BUILDING CODE	2015 IBC W/ AMENDMENTS
ELECTRICAL CODE	2014 NEC
PLUMBING CODE	2015 IPC W/ AMENDMENTS
MECHANICAL CODE	2015 IMC
ENERGY CODE	ASHRAE/IES 90.1-2007 OR COMCHECK EZ
OCCUPANCY CLASSIFICATION <u>B</u>	
OCCUPANT LOAD	6
TYPE OF CONSTRUCTION	VB
LIVE LOADS:	
OFFICES	50 PSF / 2000 LBS CONCENTRATED LOAD
ROOF LIVE LOAD	20 PSF
WIND LOAD	WIND SPEED -140 MPH / 108MPH VULT EXP. B
GROUND SNOW LOAD	10 PSF
SEISMIC DESIGN	CATEGORY C
GAS TYPE	NONE

SHEET LIST

SHEET NO.	SHEET NAME
A00	COVER PAGE
A01	EQUIPMENT PLAN
A02	FRAMING PLAN
A02.1	BLOCKING PLAN
A02.2	FLOOR FRAMING PLAN
A02.3	ROOF FRAMING PLAN
A02.4	EXT. WALL FRAMING PLAN
A04	CONSTRUCTION DETAILS
A05	MECHANICAL PLAN
D01	CROSS SECTION
D02	ELEVATIONS
D02.1	TRIM DETAILS
E01	ELECTRICAL PLAN
E02	ELECTRICAL NOTES
M01	PLUMBING PLAN

SQ FT = 658
OCCUPANT LOAD = 6

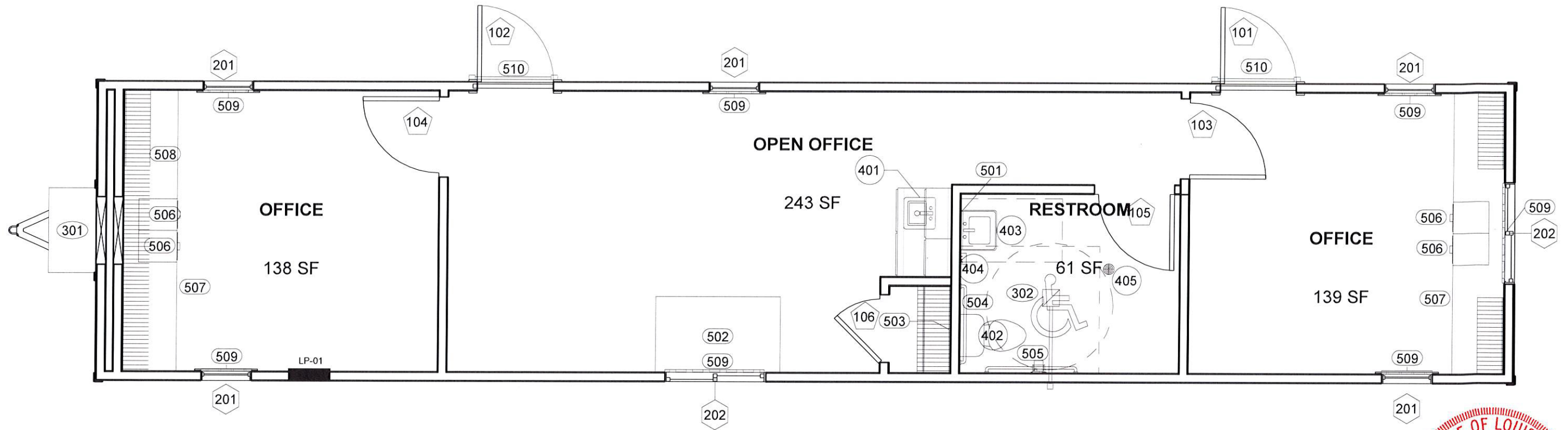
Kevin M. Finn, P.E., Inc.
815 Waterbury Park Drive
Elkhart, IN 46517
TX P.E. Lic. # 8939 / Firm # F-12601
LA P.E. Lic. # PE-0026942 / Firm # 5353
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FOR STATE STAMPED
DRAWINGS SEE PROJECT
2017-05-12X56-OFFICE

DATE:	#	DESCRIPTION	BY	DATE
SCALE: 1/8" = 1'-0"	0			
DRAWN BY:	1			
CHECKER:	2			
Bid #:	3	7171397_R3		
	4			

PROJECT TITLE: 11'-9" X 56' MOBILE OFFICE-VESTA		
DRAWING TITLE: COVER PAGE	PROJECT NO: 2019-01	SHEET NO: A00



1 A01 EQUIPMENT PLAN
1/4" = 1'-0"

Texas Industrialized
Building Code Council

IBC ☒ IRC ☐

Approval Date:
11/13/19

APPROVED
PFS CORPORATION

IHDRA- 7



U FACTOR: 0.49
SHGC: 0.23

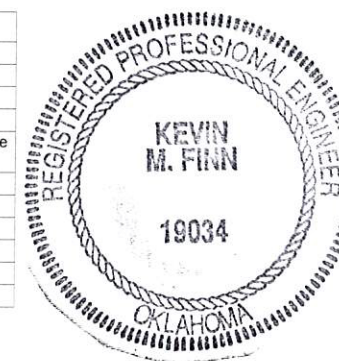
DOOR EQUIPMENT SCHEDULE						
Mark	Count	Function	Model	Description	Hardware	U-FACTORS
101	1	Exterior	36" X 80"	Tel 20 Ga. Steel Door w 10x10 ADA V.P.	Keyed Lever (BRITCO master), Heavy Duty Check Chain	.14
102	1	Exterior	36" X 80"	Tel 20 Ga. Steel Door w 10x10 ADA V.P.	Keyed Lever (BRITCO master), Heavy Duty Check Chain	.14
103	1	Interior	36x80	ReliaBilt 6 Panel H.C. Door	Passage Lever, Door Stop	
104	1	Interior	36x80	ReliaBilt 6 Panel H.C. Door	Passage Lever, Door Stop	.14
105	1	Interior	36x80	ReliaBilt 6 Panel H.C. Door	Privacy Lever, Door Stop	.14
106	1	Interior	30x80	ReliaBilt 6 Panel H.C. Door	Passage Lever, Door Stop	.14

WINDOW EQUIPMENT SCHEDULE			
Mark	Count	Model	Description
201	5	24x60	Low-E VINYL V.S. w/ Mini Blinds
202	2	48x24	H.S., LOW E, Insulated VINYL W/ MINI BLINDS

MECHANICAL EQUIPMENT SCHEDULE			
Mark	Count	Model	Description
301	1	3 TON	3 Ton Wall Hung System w/ 10kW Heat (Voltage Monitor Kit Installed)
302	1	75cfm	Exhaust fan/Light combo

PLUMBING FIXTURE SCHEDULE			
Mark	Count	Model	Description
401	1		Stainless Steel Bar Sink with ADA Centerset Gooseneck Faucet
402	1		ADA water closet w/ tank, bowl, & elongated seat
403	1		Wall hung lavatory with ADA faucet
404	1	SP48DL	InstaHot Point of Use Electric Tankless Water Heater
405	1		Round Floor Drain

FURNITURE EQUIPMENT SCHEDULE			
Mark	Count	Model	Description
501	1	18x36	ADA Frameless Mirror
502	1		Folding Plan Table
503	1		Closet Rod with Wire Shelf
504	1		ADA Grab bar 36" on rear and 42" on side and 18" Vertical on side
505	1		Single-Roll Toilet Tissue Dispenser
506	4		2 Drawer Steel Filing Cabinet
507	2	11'-1"	Melamine Countertop
508	1	12"x11'-1"	Wire Shelving
509	7		Security Window Bars
510	2		Door Bars



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Tel: (254) 741-5701

DATE:	#	DESCRIPTION	BY	DATE
SCALE: 1/4" = 1'-0"	0			
DRAWN BY:	1			
CHECKER:	2			
Bid #:	3	7171397_R3		
	4			

PROJECT TITLE:
11'-9" X 56' MOBILE OFFICE-VESTA

DRAWING TITLE:
EQUIPMENT PLAN

PROJECT NO:
2019-01

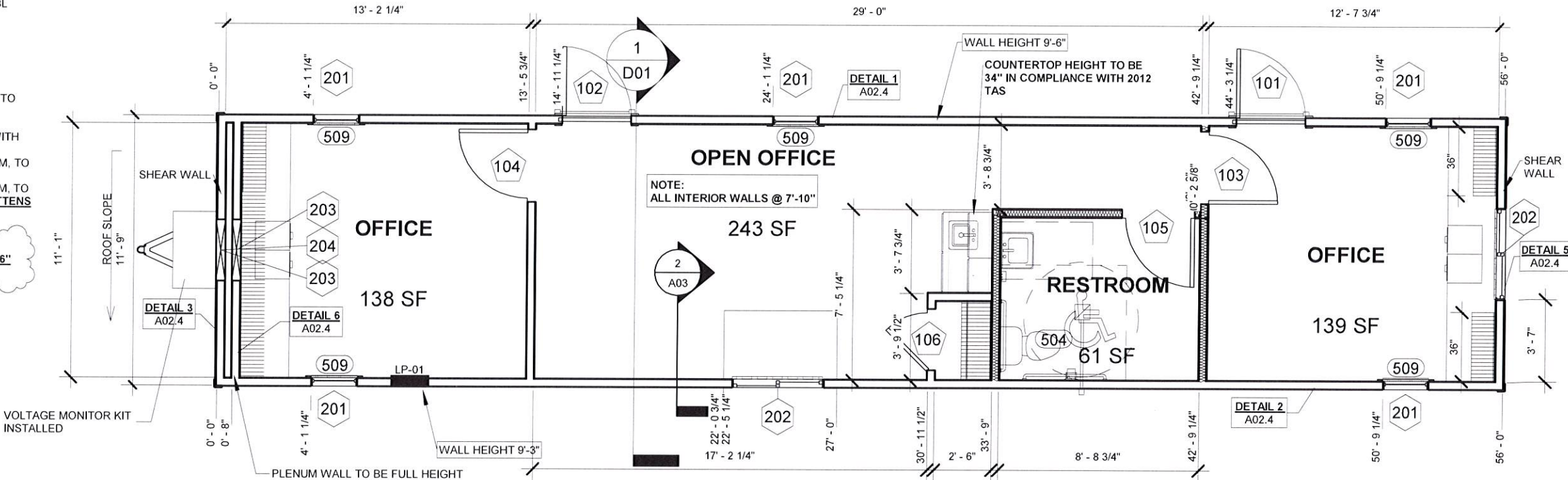
SHEET NO:
A01

britco
BUILDING INNOVATION

NOTES:
1. ALL MEASUREMENTS ARE FROM RAW FRAMING MEMBER TO RAW FRAMING MEMBER, EXCEPT WHEN FINISHED I.D. IS CALLED OUT
2. ALL EXTERIOR WALLS ARE DRAWN AT 3 1/2" ALL INTERIOR ARE DRAWN AS 3 1/2" UNLESS OTHERWISE NOTED.
3. ALL DOOR JAMBS ARE 3" AWAY FROM WALL UNLESS OTHERWISE NOTED.
4. EXTERIOR DOOR AND WINDOW HEADERS TO DBL 2X6
5. WALL HEIGHT IS 7'-10" EXCEPT WHERE NOTED OTHERWISE

R-11 INSULATION
NOTES ON SHEAR WALLS:
• SHEAR WALLS TO BE SHEATHED FULL HEIGHT TO EXTERIOR SIDE UP TO BOTTOM OF RAFTERS
• BLOCKING INSTALLED IF NOT CONTINUOUS
• EXTERIOR OF SHEAR WALL TO BE COVERED WITH 3/8" LP SMART SIDE PANEL
• INTERIOR OF SHEAR WALL, IF WITHIN A PLENUM, TO BE COVERED WITH 1/2" PLAIN GYPSUM.
• INTERIOR OF SHEAR WALL, WITHOUT A PLENUM, TO BE COVERED WITH 1/2" VCG W/ MATCHING BATTENS

7/16" OSB TO END WALLS ONLY
6" O.C. EDGE, 6" O.C. FIELD WITH 15 GA 2-1/2" X 7/16" STAPLES



1 A02 FRAMING PLAN
3/16" = 1'-0"

Texas Industrialized
Building Code Council

IBC ☒ IRC ☐

Approval Date:
11/13/19

APPROVED
PFS CORPORATION

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DOOR SCHEDULE			
Mark	Rough Width	Rough Height	Sill Height
101	36"	80 1/2"	0"
102	36"	80 1/2"	0"
103	38"	82"	0"
104	38"	82"	0"
105	38"	82"	0"
106	32"	82"	0"

Window Schedule			
Mark	Rough Width	Rough Height	Sill Height
201	24 1/2"	60 1/2"	20"
202	48 1/2"	24 1/2"	44"
203	32"	10 1/2"	98"
204	29"	14"	67 1/2"



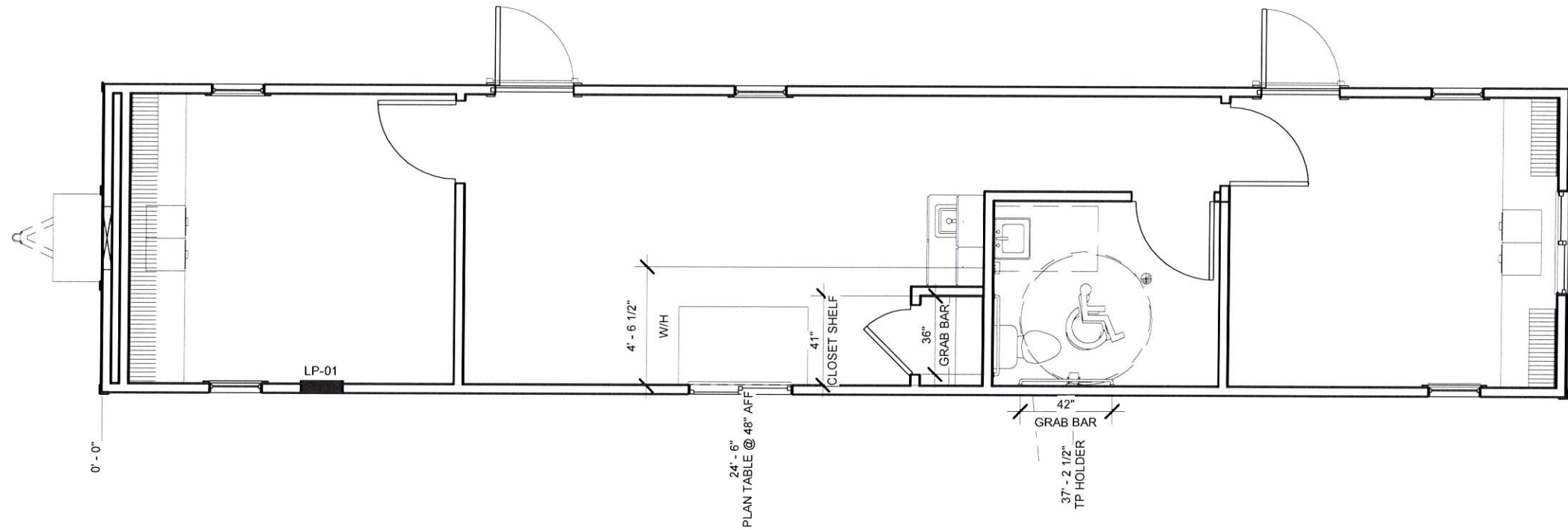
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DATE:	#	DESCRIPTION	BY	DATE
SCALE: 3/16" = 1'-0"	0			
DRAWN BY:	1	Revision 1		Date 1
CHECKER:	2			
Bid #:	3			
	4			

PROJECT TITLE: 11'-9" X 56' MOBILE OFFICE-VESTA		
DRAWING TITLE: FRAMING PLAN	PROJECT NO: 2019-01	SHEET NO: A02

BUILDING INNOVATION



1 A02.1 BLOCKING PLAN
3/16" = 1'-0"


Texas Industrialized
Building Code Council

IBC ☒ IRC ☐

Approval Date:
11/13/19

APPROVED
PFS CORPORATION

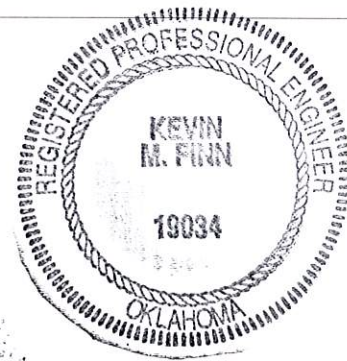
IHDRA- 7



BLOCKING LEGEND

ITEM	BLOCKING HEIGHT	MATERIAL
CLOSET	66-1/2" AFF	2X6
CORK BOARD	56" AFF	2X6
LOCKERS	1-1/2" & 66-1/2" AFF	2X6
NIGHT TABLE	1-1/2" & 24-1/2" AFF	2X6
PERSONAL DESK	1-1/2" & 24-1/2" AFF	2X6
TELEVISION	60" AFF	2X8
TACK BOARD	56" AFF	2X6
FIRE EXTINGUISHER	44" AFF	2X10
WATER HEATER	42" AFF	2X8
SHAVING SHELF	30" AFF	2X6
SOAP DISPENSER	36" AFF	2X6
MOP SINK TAPS	32" AFF	2X8
TP HOLDER	20" AFF	2X6
TOWEL BAR	40-3/4" AFF	2X8
TOWEL RING	40-3/4" AFF	2X6
VANITY COUNTER	26-1/2" AFF	2X6
COAT RACK	68" AFF	2X8
PARTITION BLOCKING	24", 48" 72" 96" AFF	2X4
GRAB BARS	33-36" AFF	2X8

NOTE: GENERIC BLOCKING SCHEDULE INTENDED TO CAPTURE ALL POSSIBLE CIRCUMSTANCES
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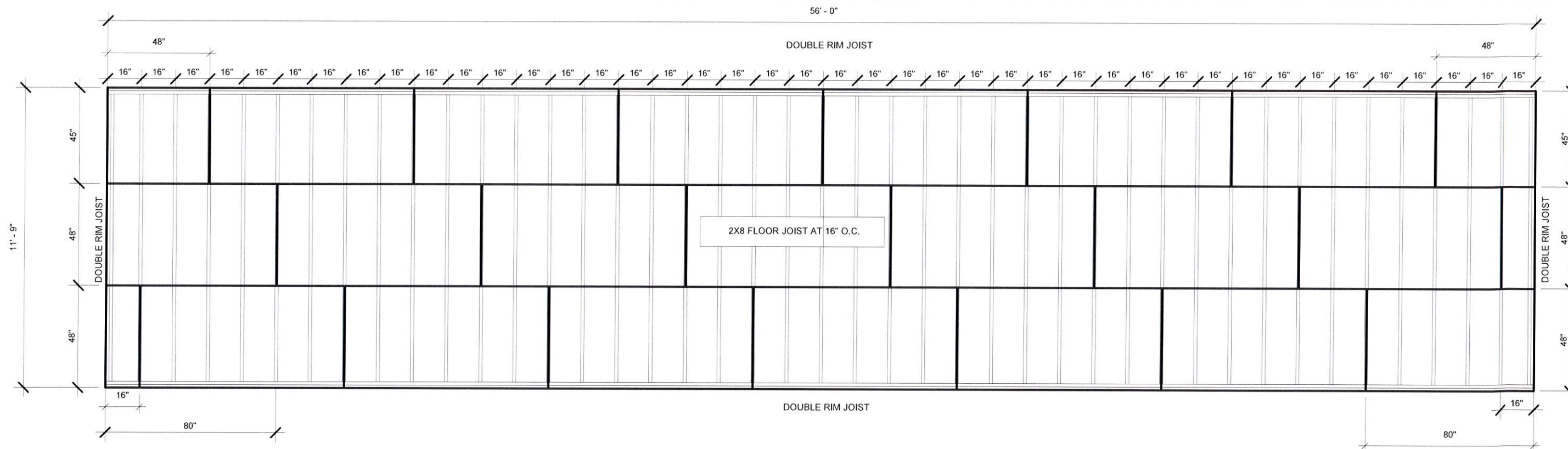
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11'-9" X 56' MOBILE OFFICE-VESTA

DRAWING TITLE:
BLOCKING PLAN

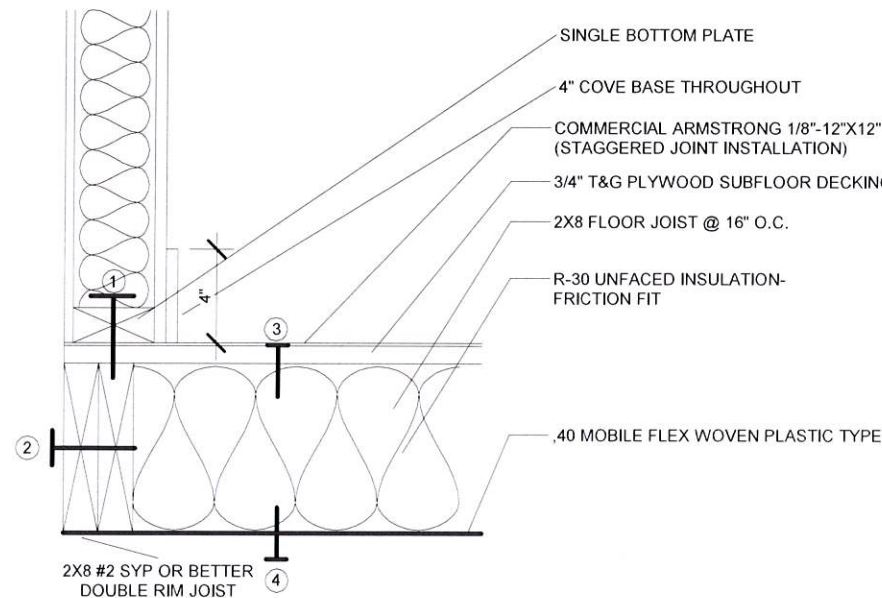
PROJECT NO:
2019-01

SHEET NO:
A02.1

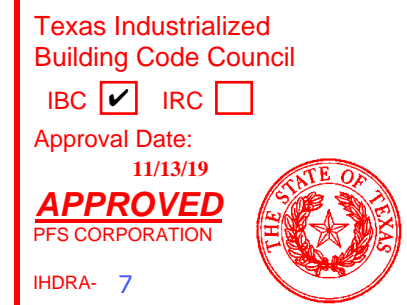
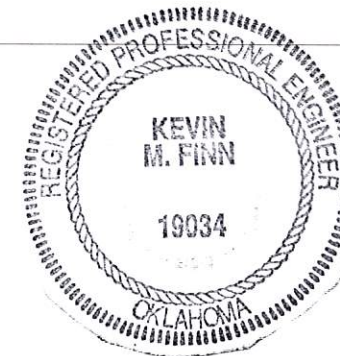
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1 FLOOR JOIST LAYOUT 1/4" = 1'-0"



TAG #	DESCRIPTION	SPACING	FASTENER
①	WALL TO FLOOR	48" O.C.	5/16" X5" LAG W/ WASHER
②	DOUBLE RIM JOIST	4" O.C. STAGGERED	48" O.C. 3" X .131 FRAMING NAIL
③	3/4" T&G PLYWOOD TO JOIST	6" O.C. ON EDGE 12" O.C. FIELD	38 X 1-3/4" WOOD SCREW
④	MOBILE FLEX TO JOIST	3" O.C. PERIMETER	16 A. 1-1/4" X 1



2 A02.2 FLOOR/FASTENING DETAIL 1 1/2" = 1'-0"

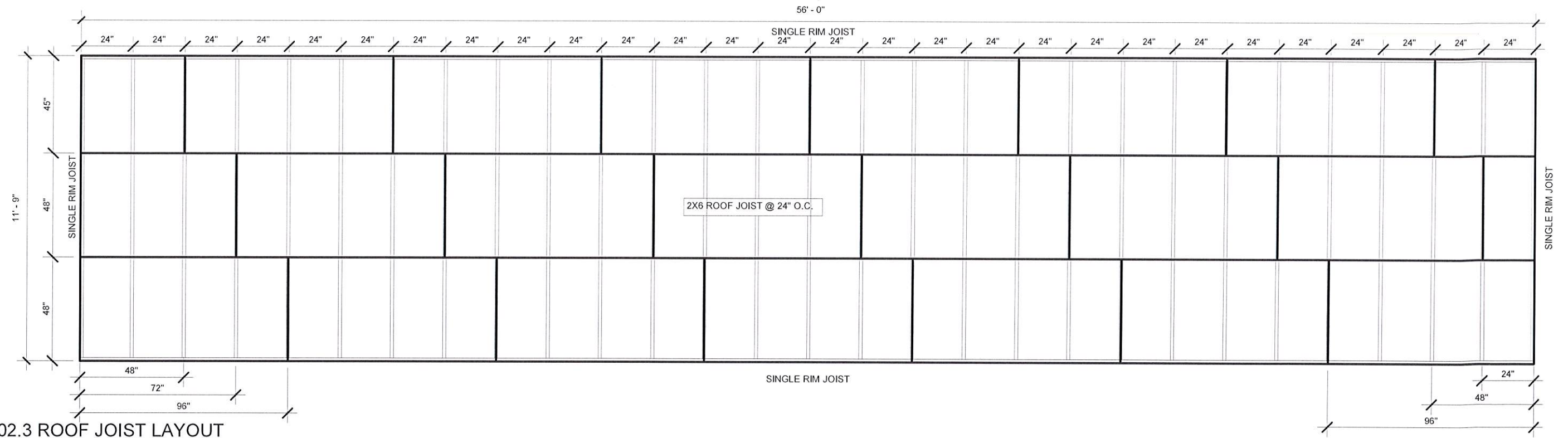
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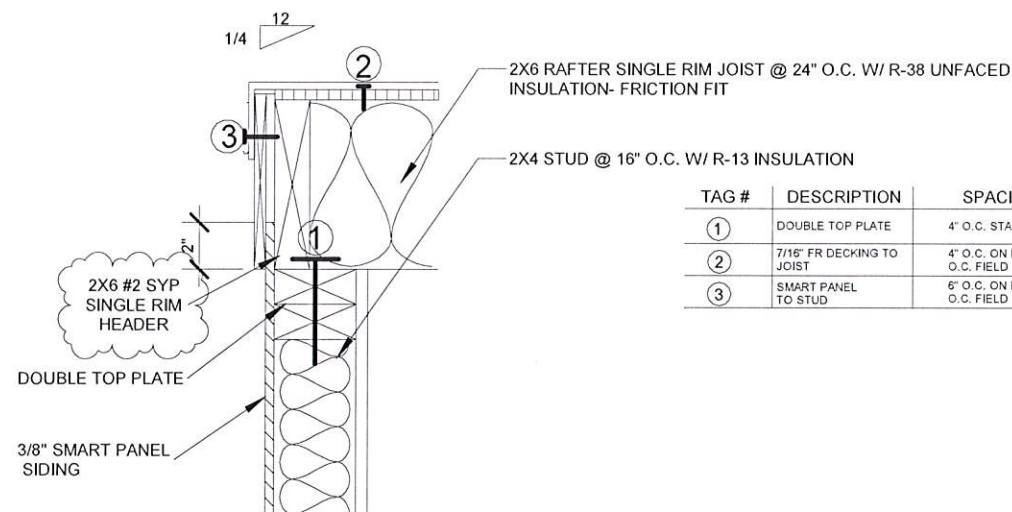
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PROJECT TITLE: 11'-9" X 56' MOBILE OFFICE-VESTA	PROJECT NO: 2019-01	SHEET NO: A02.2
DRAWING TITLE: FLOOR FRAMING PLAN		

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1 A02.3 ROOF JOIST LAYOUT
1/4" = 1'-0"



TAG #	DESCRIPTION	SPACING	FASTENER
①	DOUBLE TOP PLATE	4" O.C. STAGGERED	3" X .131 FRAMING NAIL
②	7/16" FR DECKING TO JOIST	4" O.C. ON EDGE 8" O.C. FIELD	15GA. 2-1/2" X 7/16" STAPLE
③	SMART PANEL TO STUD	6" O.C. ON EDGE 12" O.C. FIELD	WIRE COIL NAIL 2-1/4 X .092

2 A02.3 ROOF/FASTENING DETAIL
1 1/2" = 1'-0"

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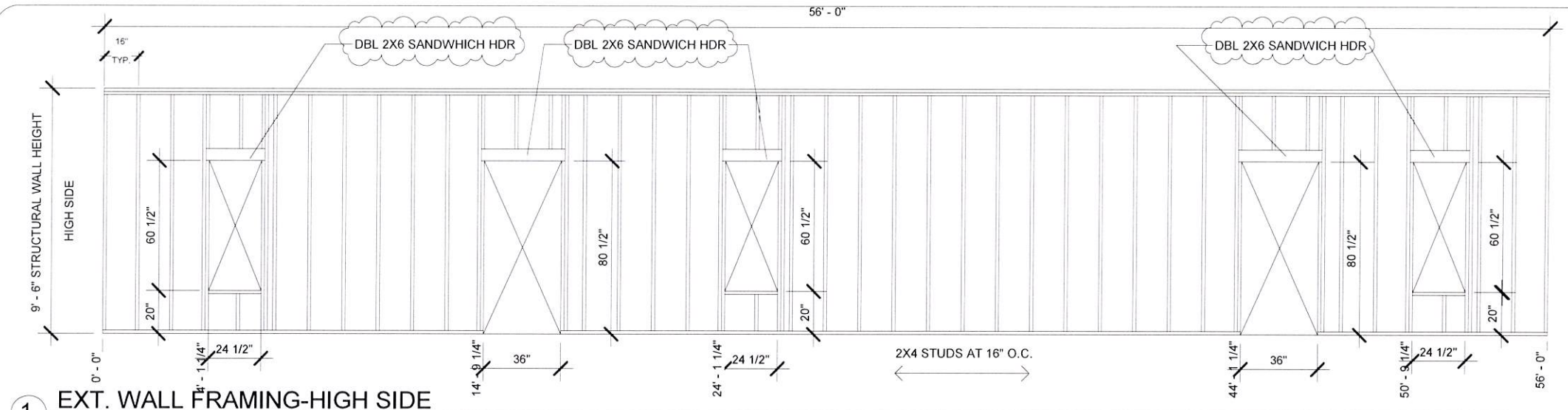
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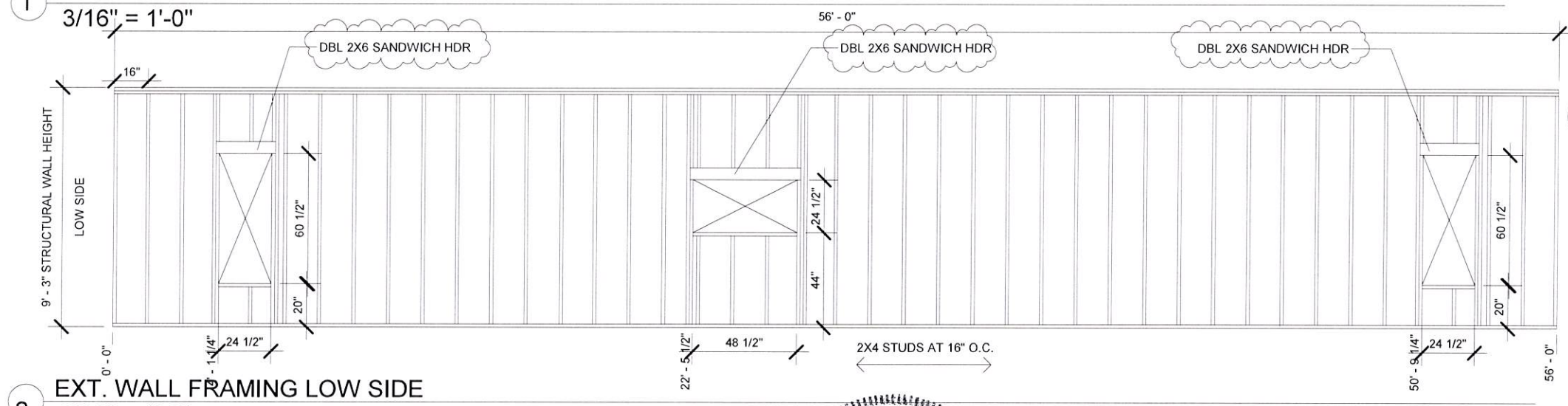
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PROJECT TITLE:	11'-9" X 56' MOBILE OFFICE-VESTA	
DRAWING TITLE:	ROOF FRAMING PLAN	
PROJECT NO:	2019-01	SHEET NO: A02.3

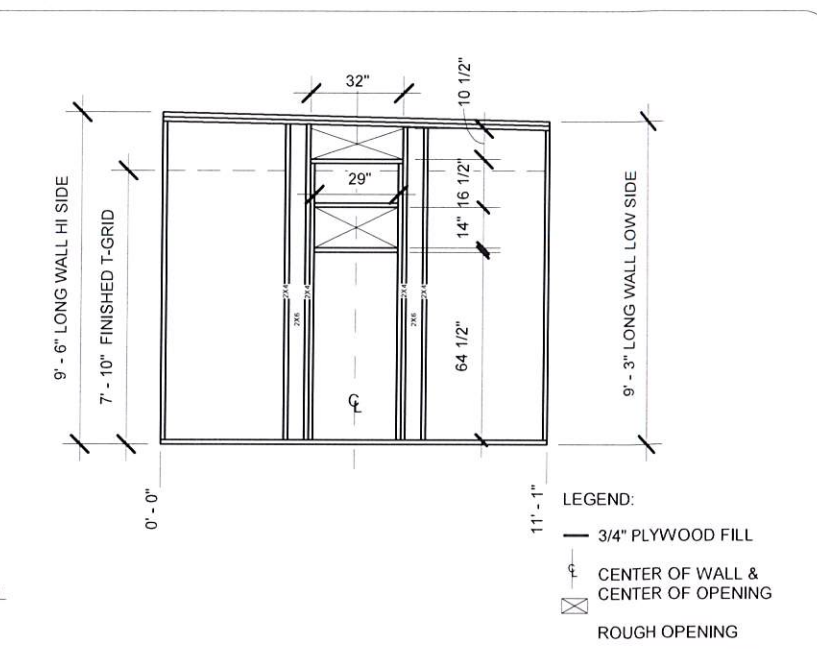
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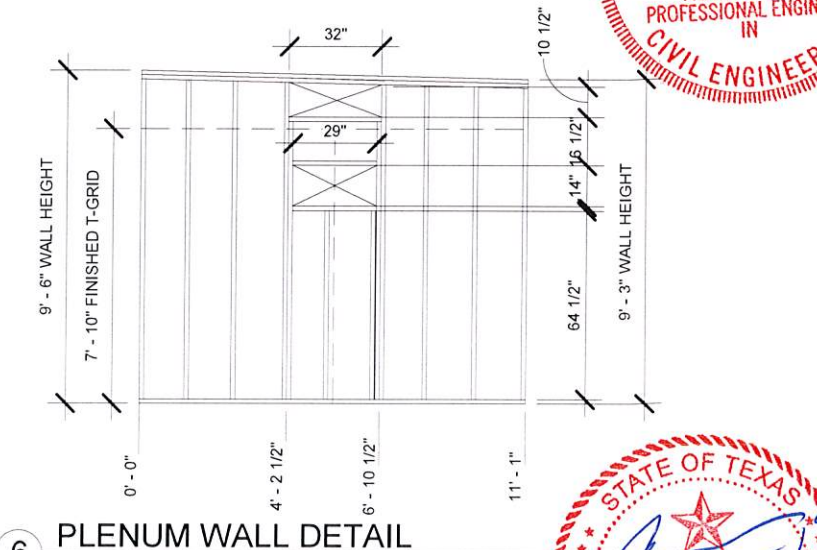
1 EXT. WALL FRAMING-HIGH SIDE
3/16" = 1'-0"



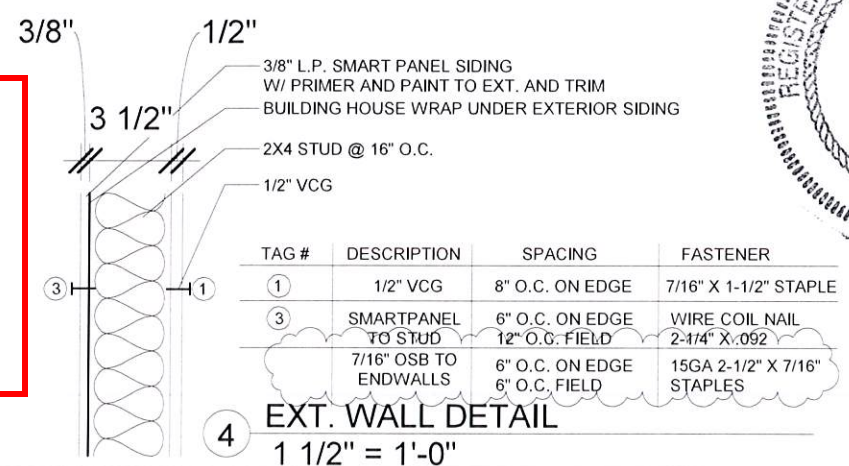
2 EXT. WALL FRAMING LOW SIDE
3/16" = 1'-0"



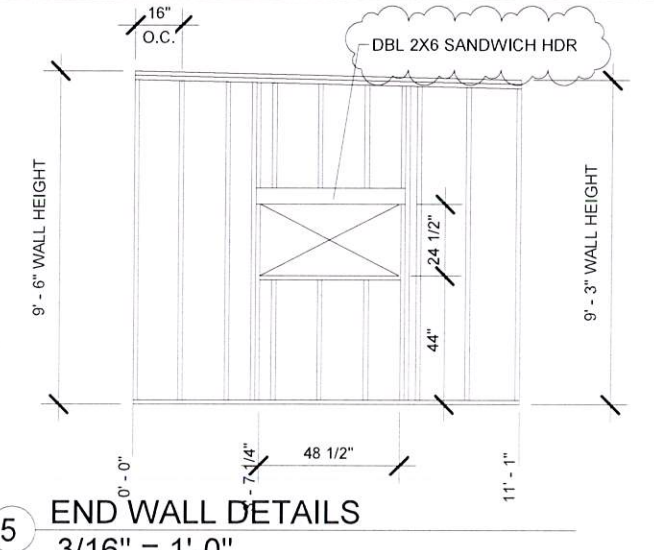
3 HVAC FRAMING DETAIL 3 Ton
3/16" = 1'-0"



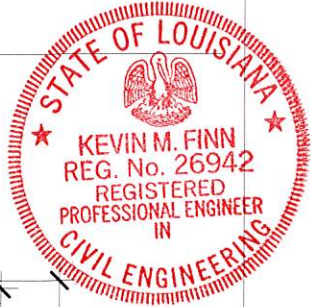
6 PLENUM WALL DETAIL
3/16" = 1'-0"



4 EXT. WALL DETAIL
1 1/2" = 1'-0"



5 END WALL DETAILS
3/16" = 1'-0"



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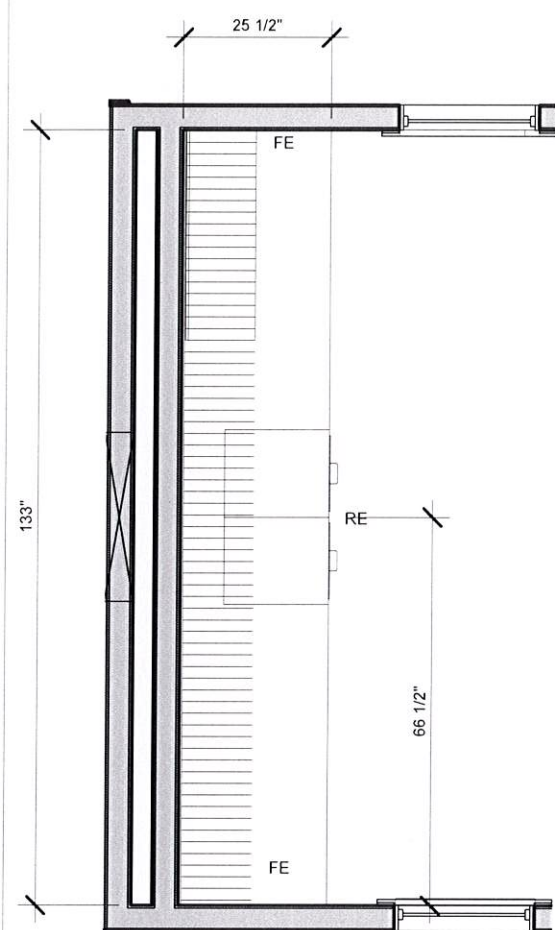
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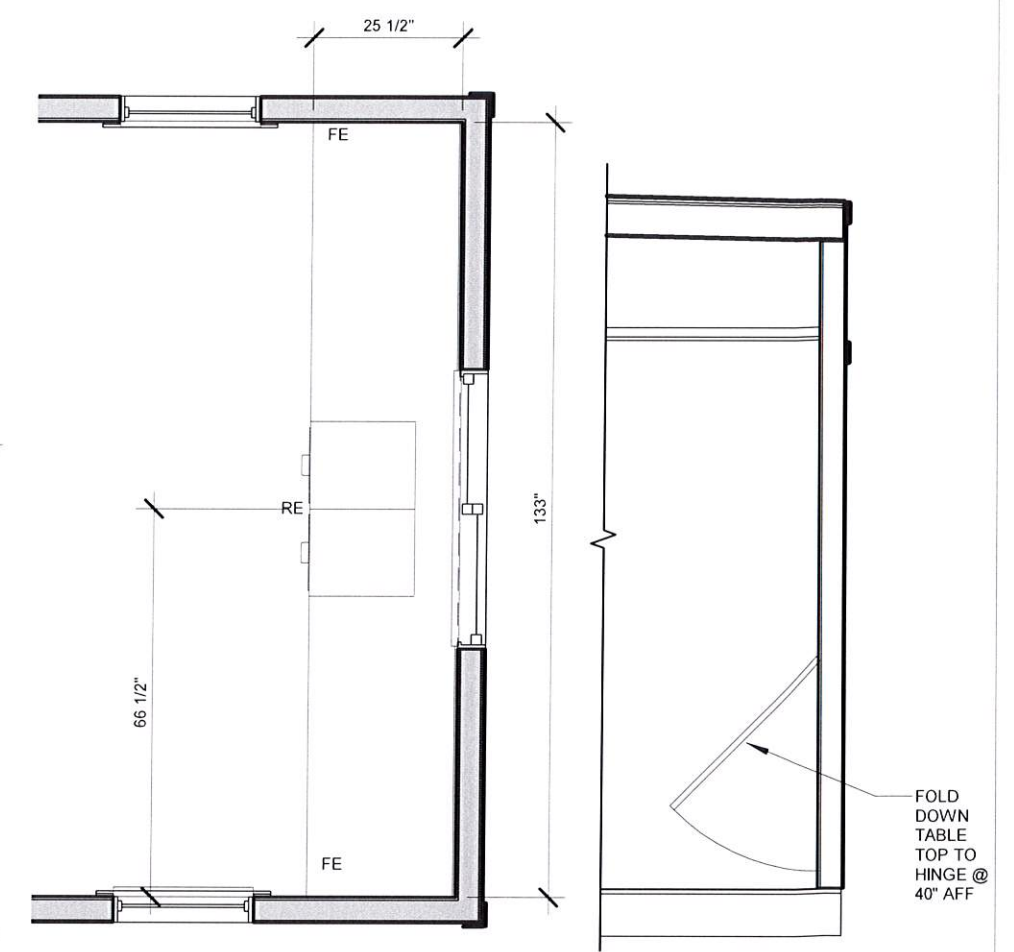
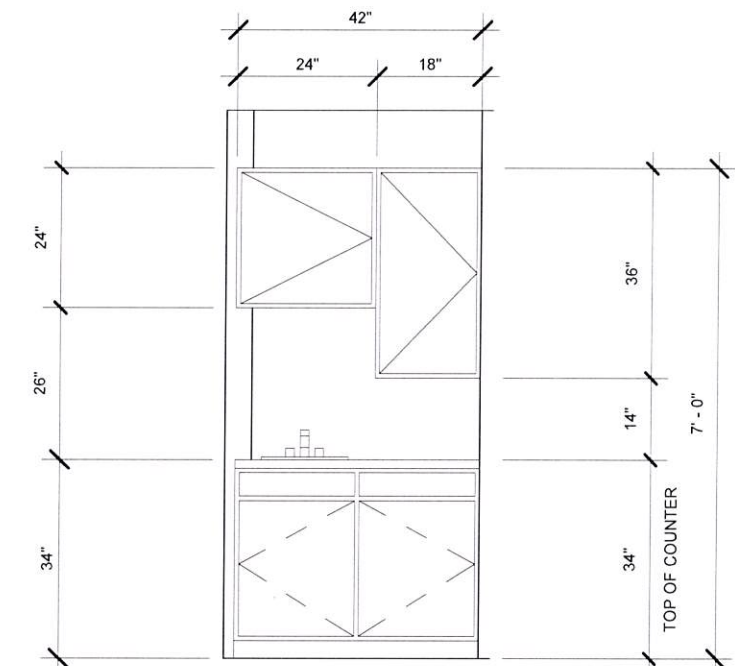
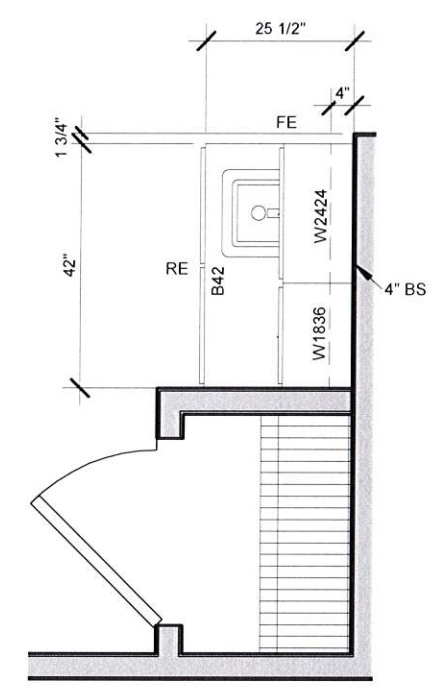
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PROJECT TITLE:	11'-9" X 56' MOBILE OFFICE-VESTA
DRAWING TITLE:	EXT. WALL FRAMING PLAN
PROJECT NO:	2019-01
SHEET NO:	A02.4



CABINET DETAILS
 RE-ROLLED EDGE
 FE-FINISHED EDGE
 BS-4" BACKSPLASH



- 1 A04 CABINET DETAILS- OFFICE 1
3/8" = 1'-0"
- 2 A04 CABINET DETAILS- BAR SINK
3/8" = 1'-0"
- 3 CABINET ELEVATION
3/8" = 1'-0"
- 4 A04 CABINET DETAILS - OFFICE 2
3/8" = 1'-0"
- 5 TABLE DETAIL
3/8" = 1'-0"

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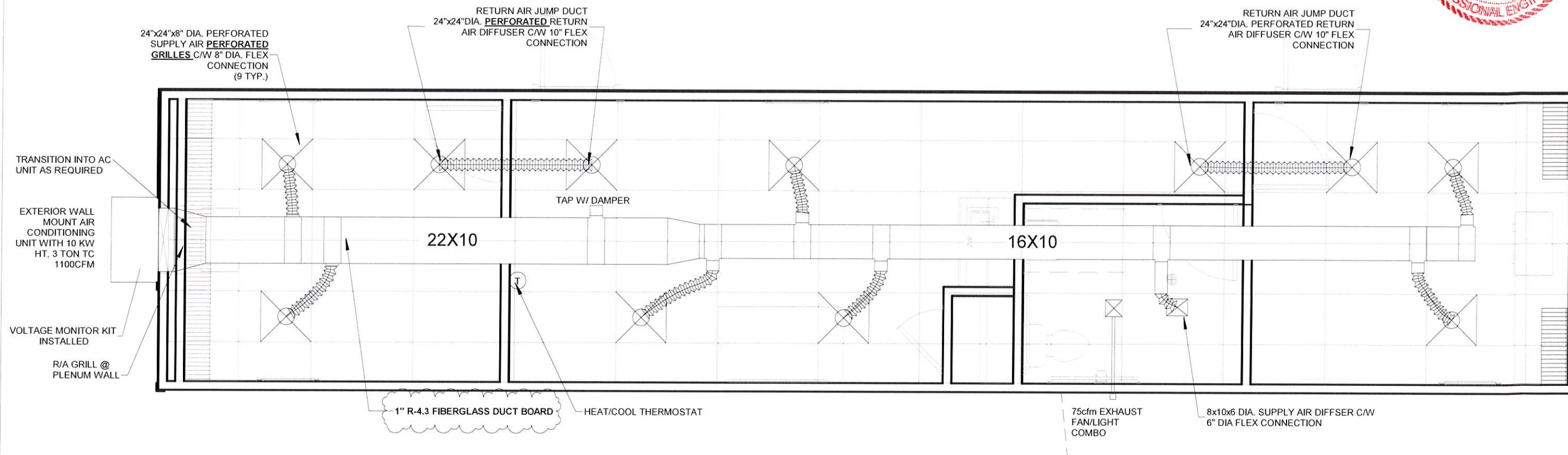
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PROJECT TITLE: 11'-9" X 56' MOBILE OFFICE-VESTA	PROJECT NO: 2019-01	SHEET NO: A04
DRAWING TITLE: CONSTRUCTION DETAILS		



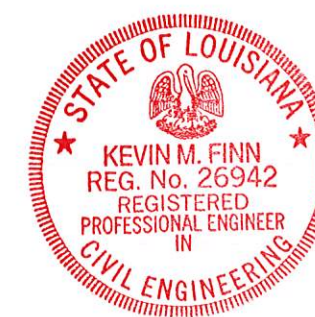


1 A05 MECHANICAL PLAN
1/4" = 1'-0"

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Approval Date:
11/13/19
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OUTDOOR AIRFLOW RATE
PER 403.3.1.1 OF 2015 IMC
 $V_{bz} = R_p(P_z) + R_a A_z$
 $V_{bz} = 5(6) + .06(658)$
 $V_b = 69.48$



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PROJECT TITLE:
11'-9" X 56' MOBILE OFFICE-VESTA

DRAWING TITLE:
MECHANICAL PLAN

PROJECT NO:
2019-01

SHEET NO:
A05

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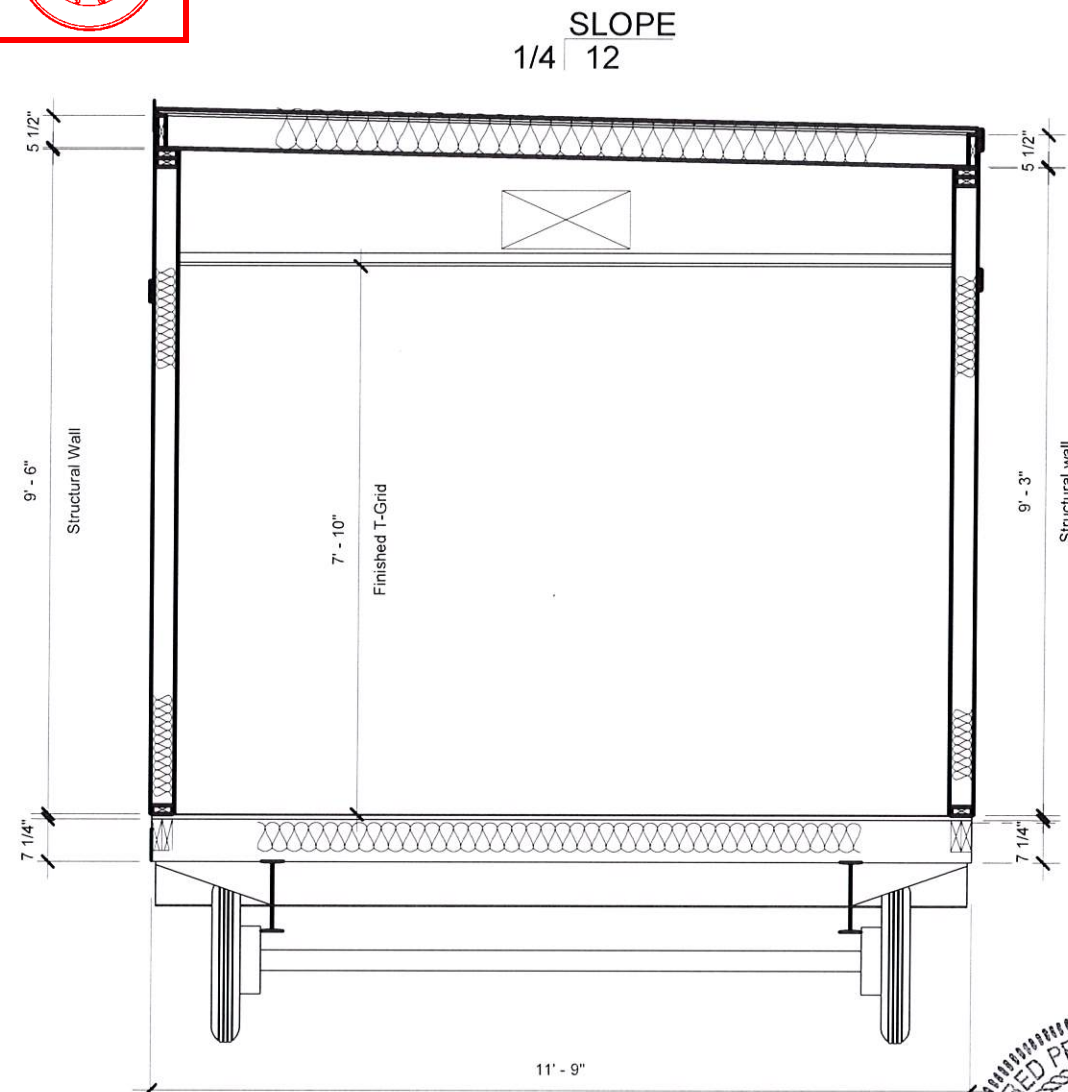
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1 D01 CROSS SECTION
3/8" = 1'-0"

- FRAME

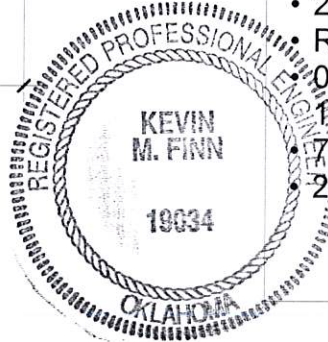
 - 12' X 56' 12" - I-BEAM, 1BR - 3DR AXLES, REMOVABLE HITCH, 14 PLY TIRES
- FLOOR CONSTRUCTION

 - .040 MOBILE FLEX
 - 2x8 #2 SYP @ 16" O.C. DOUBLE RIM JOIST
 - R-30 UNFACED INSULATION - FRICTION FIT
 - 3/4" T&G PLYWOOD DECKING
 - 12"X12"X1/8" ARMSTRONG TILE THROUGHOUT
- EXTERIOR WALL

 - 3/8" SMART PANEL SIDING W/ SMART PANEL TRIM
 - 2 x 4 #2 SYP @ 16 O.C.
 - R-13 UNFACED INSULATION - FRICTION FIT
 - DOUBLE TOP PLATE
 - SINGLE BOTTOM PLATE
 - 1/2" VCG WITH MATCHING BATTENS
 - 4" VINYL COVE BASE THROUGHOUT
 - FRP LAM. TO 1/2" GYP BOARD 48" AFF BEHIND AND ADJ. TO BATHROOMS
 - BUILDING WRAP
 - 7/16" OSB SHEATHING TO END WALLS ONLY
- INTERIOR WALLS

 - 2 x 4 #2 SYP @ 16 O.C.
 - SINGLE TOP PLATE
 - SINGLE BOTTOM PLATE
 - 1/2" VCG WITH MATCHING BATTENS
 - 4" VINYL COVE BASE THROUGHOUT
 - FRP @ 48" BEHIND AND BESIDE WET AREA
 - R-11 UNFACED FIBERGLASS INSULATION FOR SOUND ATTENUATION
- ROOF CONSTRUCTION

 - 2x6 #2 SYP @ 24" O.C.
 - R-38 UNFACED INSULATION WITH NETTING
 - .045 WHITE EPDM SINGLE PLY EPDM FULLY ADHESIVE AND INSTALLED PER ESR 1463 WITH ALUMINUM DRIP RAIL TO PERIMETER SR:0.64 3YR / TE:0.87 3YR
 - 7/16" MULEHIDE F/R DECK ROOF SHEATHING INSTALLED PER ESR 1776
 - 2x4 T-GRID SUSPENDED CEILING (GRIDSTONE TILES TO R.R.)

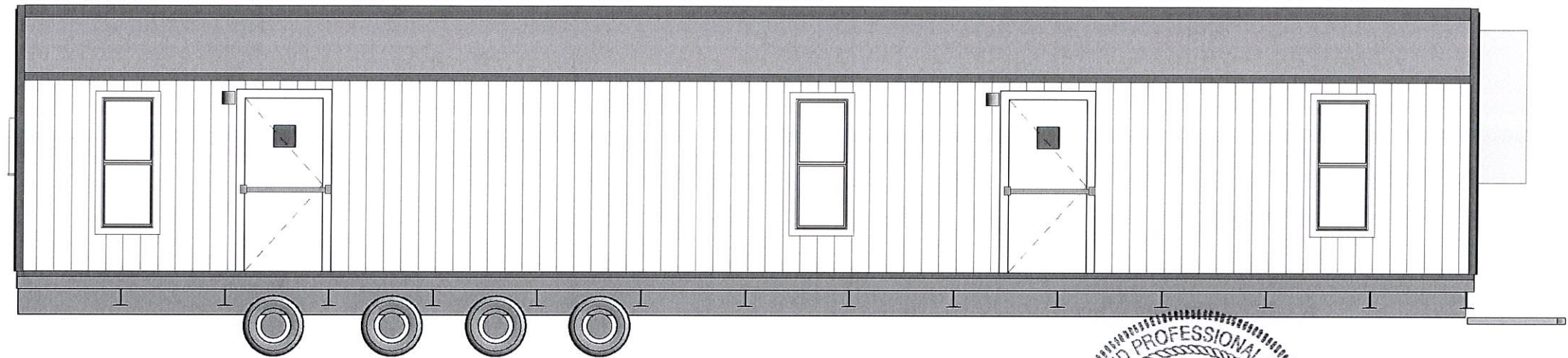


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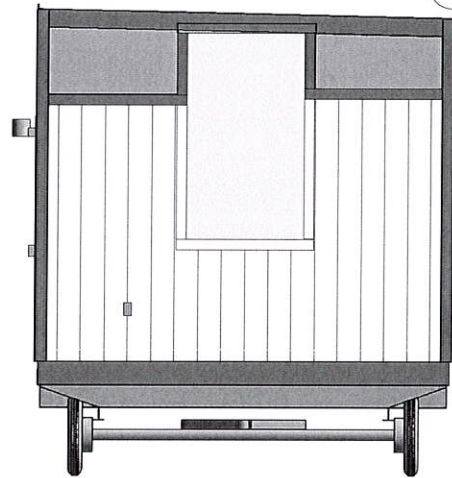
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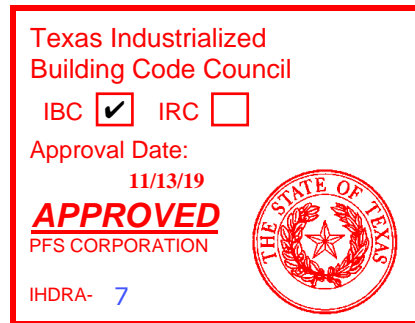
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DRAWING TITLE: CROSS SECTION	PROJECT NO: 2019-01	SHEET NO: D01



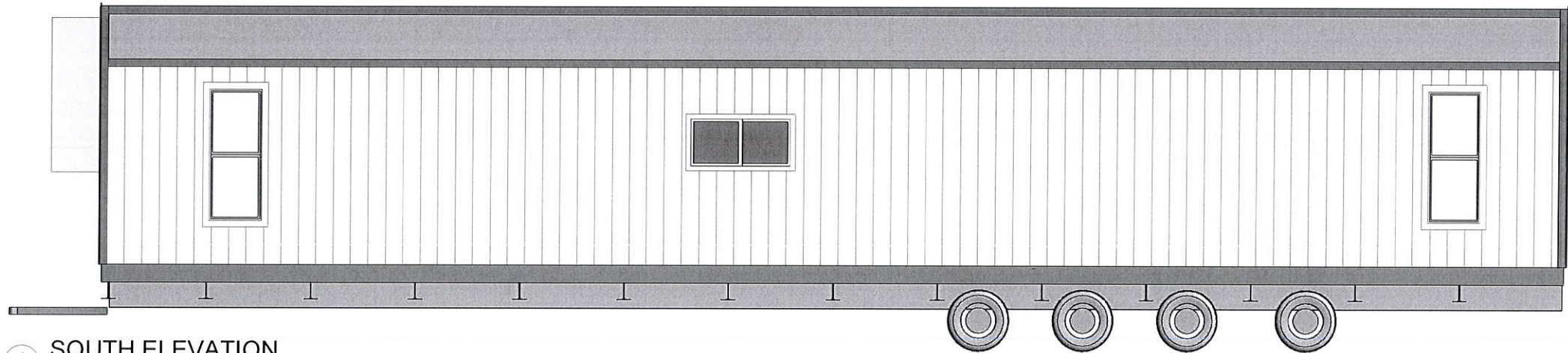
4 NORTH ELEVATION
3/16" = 1'-0"



2 WEST ELEVATION
3/16" = 1'-0"



3 EAST ELEVATION
3/16" = 1'-0"



1 SOUTH ELEVATION
3/16" = 1'-0"



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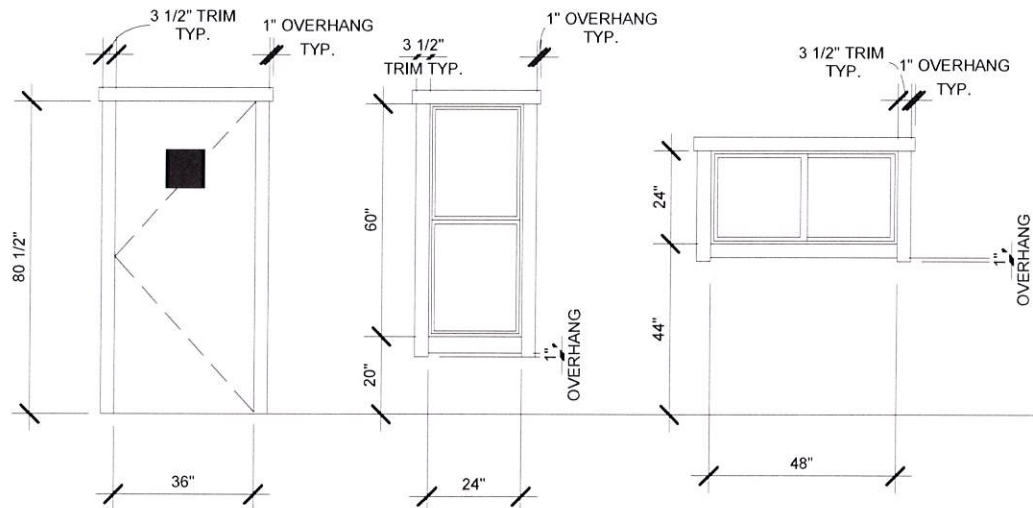
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11'-9" X 56' MOBILE OFFICE-VESTA

DRAWING TITLE:
ELEVATIONS

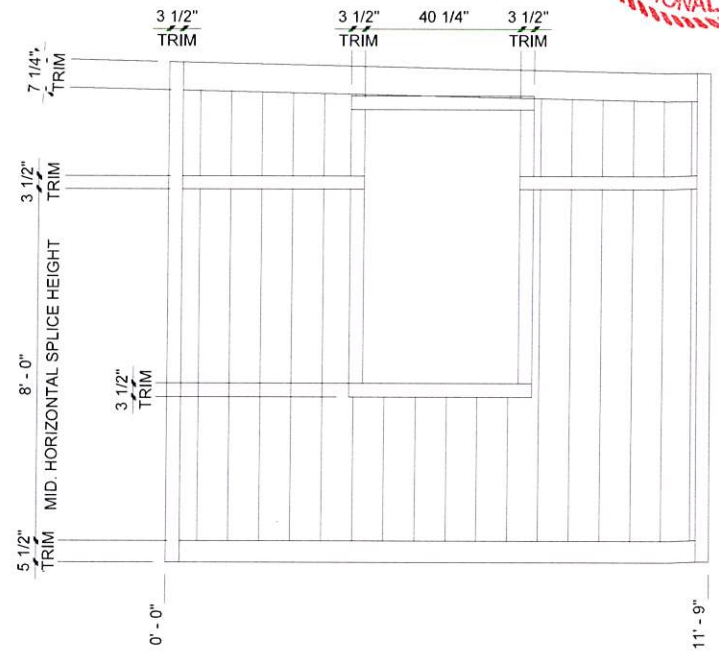
PROJECT NO:
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SHEET NO:
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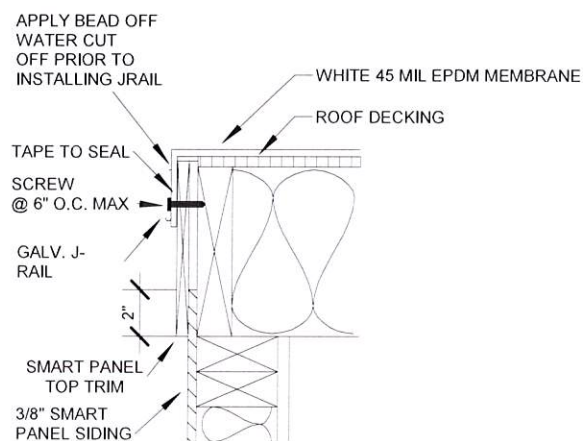
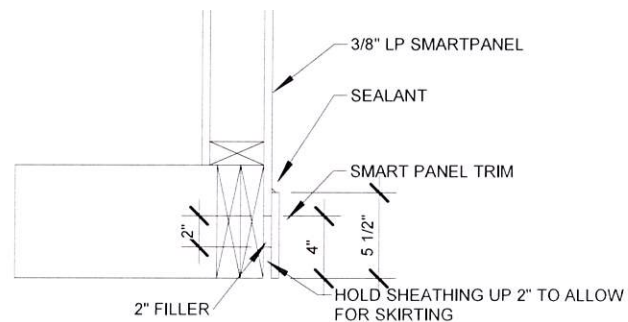
NOTE: GENERIC DOOR AND WINDOW TRIM INTENDED TO CAPTURE ALL POSSIBLE STOCK CIRCUMSTANCES
NOT ALL OBJECTS MAY BE PRESENT IN UNIT



1 MANSARD TRIM
1/4" = 1'-0"

2 Door And Window Trim
1/4" = 1'-0"

3 HVAC TRIM
1/4" = 1'-0"



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4 FLOOR TRIM DETAIL
1" = 1'-0"

5 ROOF TRIM DETAIL
1 1/2" = 1'-0"

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PROJECT TITLE: 11'-9" X 56' MOBILE OFFICE-VESTA	DRAWING TITLE: TRIM DETAILS	PROJECT NO: 2019-01	SHEET NO: D02.1
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SYMBOL	DESCRIPTION
	20A/125 CLASS 'A' QUAD RECEPTACLE
	30A(50A)/125/250V NEMA 14-30R RECEPTACLE
	20A/125V CLASS 'A' GFCI RECEPTACLE
	20A/125V CLASS 'A' WEATHERPROOF GFCI RECEPTACLE
	20A/125V DUPLEX RECEPTACLE C/W USB PORT
	20A/125V DUPLEX RECEPTACLE
	20A/125V SIMPLEX RECEPTACLE
	15A/125V SINGLE POLE SWITCH
	15A/125V 3-WAY SWITCH
	15A/125V SINGLE POLE SWITCH W/ OCCUPANCY SENSOR
	DATA OUTLET (STUBBED ABOVE T-GRID)
	DISCONNECT SWITCH - 20A/1 POLE
	EXHAUST FAN-cfm AS NOTED
	2x4 3 LAMP SUPER T-8 FLOURESCENT TROFFER W/ 32W BULBS-ELECTRONIC BALLAST
	EXT. MOTION SENSING PORCHLIGHT W/ PHOTOCELL
	LOW PROFILE LED
	9V CO DETECTOR @12" AFF
	HEAT/COOL THERMOSTAT
	JUNCTION BOX
	120V INTERCONNECTED SMOKE DETECTOR
	INTERIOR FLUSH MOUNT PANEL W/ MAIN
	SCONCE LIGHT

NOTE: GENERIC ELECTRICAL LEGEND INTENDED TO CAPTURE ALL POSSIBLE CIRCUMSTANCES. NOT ALL OBJECTS MAY BE PRESENT IN UNIT

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Approval Date:

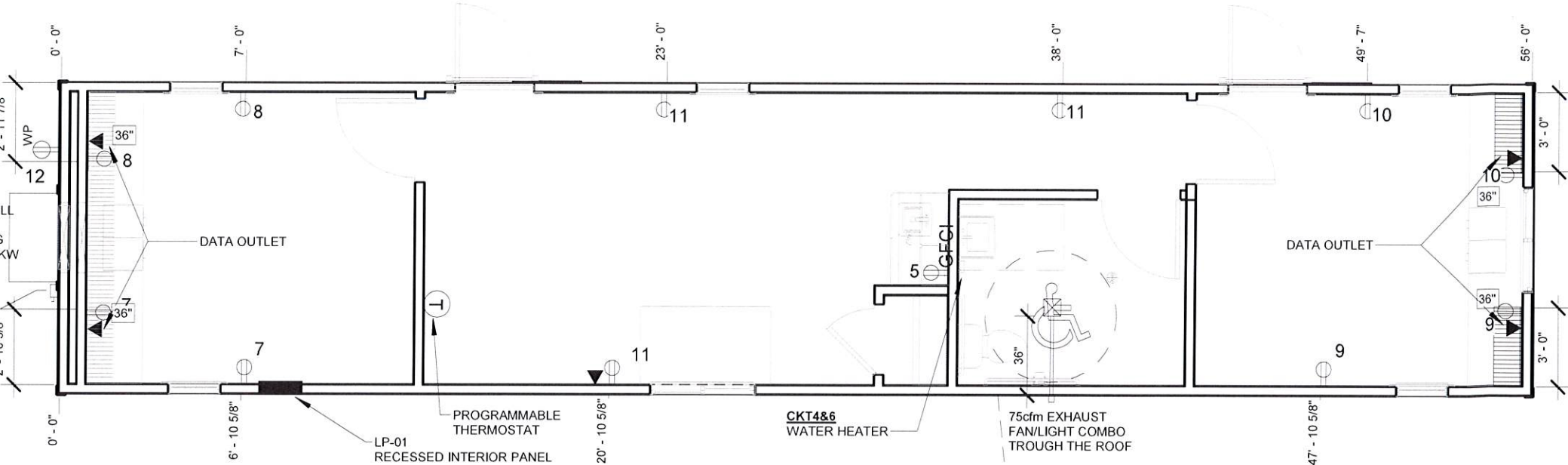
11/13/19

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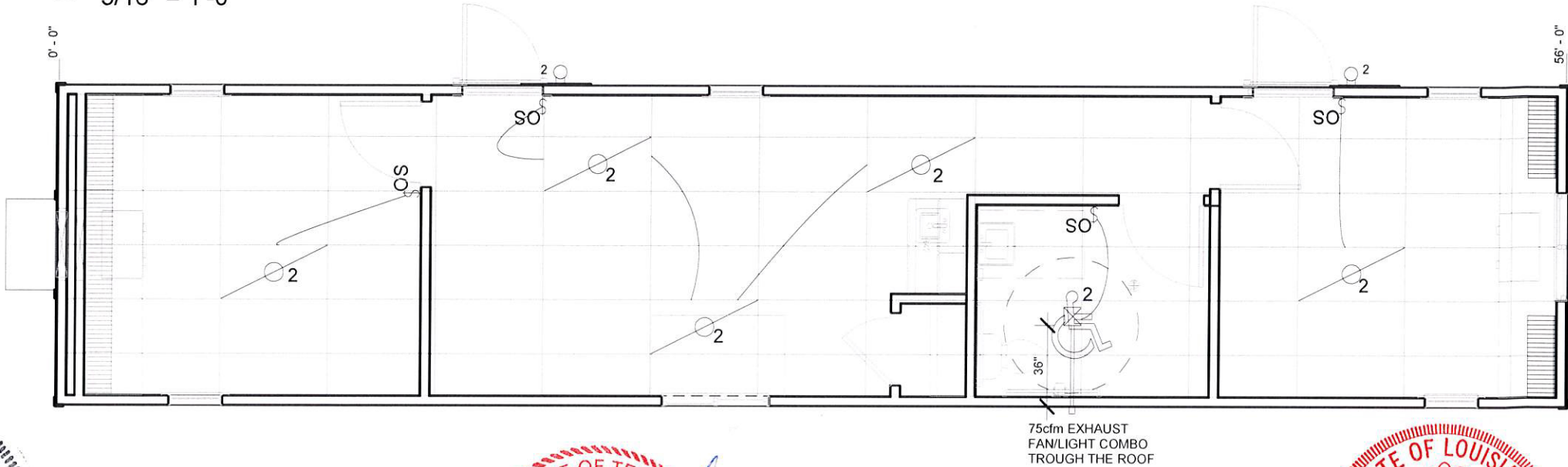
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1 E01 ELECTRICAL PLAN
3/16" = 1'-0"



2 E01 LIGHTING PLAN
3/16" = 1'-0"



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PROJECT TITLE:	11'-9" X 56' MOBILE OFFICE-VESTA
DRAWING TITLE:	ELECTRICAL PLAN
PROJECT NO:	2019-01
SHEET NO:	E01

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ELECTRICAL EQUIPMENT SCHEDULE		
Count	Description	Project Notes

1	Single Phase Panel - 120V MCB - Recessed: 100A	
---	--	--

ELECTRICAL FIXTURE SCHEDULE		
Count	Description	Project Notes

11	20A/125v Duplex Receptacle	
1	20A/125V GFCI Recept	
1	20a/125v Weather Proof GFCI Receptacle	
5	Data Outlet: Stubbed Up Above T-grid	
1	Heat/Cool Thermostat	

LIGHTING FIXTURE SCHEDULES		
Count	Description	Project Notes

5	2X4 4 LAMP SUPER T-8 FLOURESCENT TROFFER W 32W BULBS-ELECTRONIC BALLAST	32W
2	Ext. Motion Sensing PorchLight W/ Photocell	60W

LIGHTING SWITCHES SCHEDULE		
Count	Description	Project Notes

4	Lighting Switch: Vacancy Sensor	
---	---------------------------------	--

Mechanical Equipment		
Count	Description	Project Notes

1	Bard Wall Hung Unit: 3 Ton	
1	Fan light combo 75cfm: 75cfm Fan Light Combo	

STANDARD OUTLET MOUNTING HEIGHTS			
HEIGHT IN INCHES TO BOTTOM OF BOX UNLESS OTHERWISE NOTED			
ELECTRICAL BOX TYPE	MTG HT (AFF)	ELECTRICAL BOX TYPE	MTG HT (AFF)
WALL RECEPTACLE	16	PHONE	44
LIGHT SWITCH	44	TELE/DATA OUTLET	16
MICROWAVE RECEPT.	75	WATER HEATER	16
TV RECEPT. (TOP OF BOX)	60	EXTERIOR LIGHT	78
ANTENNA BOX	88	EXTERIOR RECEPT.	16
COMMON KITCHEN RECEPT.	44	WASHER	36
LOWER BUNK LIGHT TWIN/FULL	40	DRYER	36
UPPER BUNK LIGHT TWIN/FULL	83	THERMOSTAT - CENTERLINE	60
BUNK LIGHT DIMMER	38	OFFICE UPPER RECEPT.	38
STOVE	16	OFFICE LOWER RECEPT.	16
BEDROOM VALENCE LIGHT	60	VANITY GFI	38
DISHWASHER	XX	OFFICE DUPLEX	39

LP-01
100A, 120/240V, 1 DIA, 3w, 60Hz panelboard c/w 2p 100A Main Interior Flush Mount Panel 2"EMT stub down incoming power

wire	Circuit	Load Name	<Rating>/<Number of Poles>/	<Rating>/<Number of Poles>/	Load Name	Circuit	wire
/6\	1	HVAC	60 A/2/	20 A/1/	Lighting	2	/12\
/6\	3	--	--	30 A/2/	SP48DL	4	/12\
/12\	5	GFCI...	20 A/1/	--	--	6	/12\
/12\	7	Office 1...	20 A/1/	20 A/1/	Office 1...	8	/12\
/12\	9	Office 2...	20 A/1/	20 A/1/	Office 2...	10	/12\
/12\	11	Open...	20 A/1/	20 A/1/	WP/GFCI	12	/12\
	13					14	

- NOTES:
1. WIRING METHOD TO BE MC CABLE, COPPER, HOME RUN TO BE EMT CONDUIT W/ COPPER WIRE, MINIMUM # 12AWG
 2. BLANK SPACES IN PANEL MAY BE OMITTED TO MAKE US OF SMALLER PANELS. BREAKER SIZE AND QUANTITY SHALL REMAIN THE SAME.
 3. ALL ELECTRICAL CONNECTIONS TO BE MOUNTED 14" AFF UNLESS OTHERWISE SPECIFIED. ALL HEIGHTS ARE MEASURED TO THE BOTTOM OF BOX.
 4. TELE/DATA OUTLETS ARE TO HAVE A 3/4" FLEXIBLE CONDUIT STUBBED UP INTO THE CEILING SPACE UNLESS NOTED.
 5. ALL CONDUIT TO CONTAIN AN INSULATED GROUND CONDUCTOR SIZED AS REQUIRED BY 2014 N.E.C., MINIMUM # 14 AWG.
 6. ELECTRICAL INSTALLATION SHALL BE IN COMPLIANCE WITH 2014 N.E.C.
 7. ALL WIRING IN RETURN AIR PLENUMS SHALL MEET RATING REQUIREMENTS OF 2014 N.E.C.
 8. MOUNTING HEIGHTS FOR ALL WALL MOUNTED DEVICES SHALL BE FROM FLOOR TO BOTTOM OF DEVICE BOX



LOAD CALCULATION TOTAL COMPLEX

LP-1	
LIGHTING LOAD =541 SQFT X 3.5 VA	1 892 VA
HEATING LOAD 1 @ 5kw =	5 000 VA
WATER HEATER =	1 440 VA
COMPLEX TOTAL LOAD =	8 332 VA
MINIMUM SERVICE SIZE	
8 332VA/240v	34.7A

LP-01 // CALCULATION AMPS

C K T	Load Name	Qty	AMPS	Phase A	Phase B
1,3	HVAC	1	41.67	41.67	41.67
2	Lighting	8	9.28	9.28	
4,6	SP48DL	1			
5	GFCI Recept	1	3.0	3.0	
7	Office 1 Recept 1	2	3.0		3.0
8	Office 1 Recept 2	2	3.0		3.0
9	Office 2 Recept 1	2	3.0	3.0	
10	Office 2 Recept 2	2	3.0	3.0	
11	Open Office Recepts	3	3.0	3.0	
12	WP/GFCI	1	1.5		1.5
TOTAL CALCULATED AMPS			81.45	74.95	49.17

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Approval Date:
11/13/19

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Tel (254) 741-6701

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	1	Revision 1		Date 1
DRAWN BY:	1			
CHECKER:	2			
Bid #:	3	7171397_R3		
	4			

PROJECT TITLE:
11'-9" X 56' MOBILE OFFICE-VESTA

DRAWING TITLE:
ELECTRICAL NOTES

PROJECT NO:
2019-01

SHEET NO:
E02

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DESCRIPTION	SPACING	FASTENER
MOBILE FLEX TO JOIST	3" O.C. PERIMETER	16 GA. 1-1/4" X 1
FLOOR, WALL, & ROOF		
JOIST TO PLATE 2X4	3 PER JOIST	3" X .131 FRAMING NAIL
JOIST TO PLATE 2X6	3 PER JOIST	3" X .131 FRAMING NAIL
JOIST TO PLATE 2X8	4 PER JOIST	3" X .131 FRAMING NAIL
JOIST TO PLATE 2X10	4 PER JOIST	3" X .131 FRAMING NAIL
JOIST TO PLATE 2X12	5 PER JOIST	3" X .131 FRAMING NAIL
DOUBLE RIM JOIST	4" O.C. STAGGERED	3" X .131 FRAMING NAIL
DOUBLE TOP PLATE	4" O.C. STAGGERED	3" X .131 FRAMING NAIL
3/8" OSB/PLYWOOD TO JOIST	4" O.C. ON EDGE 8" O.C. FIELD	15 GA. 2-1/2" X 7/16" STAPLE
7/16" OSB/PLYWOOD TO JOIST	4" O.C. ON EDGE 8" O.C. FIELD	15 GA. 2-1/2" X 7/16" STAPLE
7/16" OSB/PLYWOOD TO STUD (SHEAR WALLS)	6" O.C. ON EDGE 6" O.C. FIELD	15 GA. 2-1/2" X 7/16" STAPLE
1/2" OSB/PLYWOOD TO JOIST	4" O.C. ON EDGE 8" O.C. FIELD	15 GA. 2-1/2" X 7/16" STAPLE
5/8" T&G PLYWOOD TO JOIST	4" O.C. ON EDGE 8" O.C. FIELD	15 GA. 2-1/2" X 7/16" STAPLE
3/4" 5/8" T&G PLYWOOD TO JOIST	4" O.C. ON EDGE 8" O.C. FIELD	15 GA. 2-1/2" X 7/16" STAPLE
	16" O.C. ON EDGE 16" O.C. FIELD	#8 X 1-3/4" WOODSCREW
1/2" CDX TO JOIST	6" O.C. ON EDGE 12" O.C. FIELD	7/16" X 1-1/2" STAPLE
SMARTPANEL TO STUD	6" O.C. ON EDGE 12" O.C. FIELD	WIRE COIL NAIL 2-1/4" X .092
MESA SIDING TO STUD	BOTTOM, MIDDLE, TOP EVERY LOW PANEL	1-1/2" WOODGRIP SCREW
LOW RIB SIDING TO STUD	BOTTOM, MIDDLE, TOP EVERY LOW PANEL	1-1/2" WOODGRIP SCREW
7/16" FR DECKING TO JOIST	CONTINUOUS	HENKEL MB/44 ADHESIVE
	4" O.C. ON EDGE 8" O.C. FIELD	15 GA. 2-1/2" X 7/16" STAPLE
	16" O.C. ON EDGE 16" O.C. FIELD	#8 X 1-3/4" WOODSCREW
1/2" VCG	8" O.C. ON EDGE	7/16" X 1-1/2" STAPLE
	SOLID BEAD DOWN FIELD STUD	FOAM ADHESIVE
5/8" VCG	8" O.C. ON EDGE	7/16" X 1-1/2" STAPLE
	SOLID BEAD DOWN FIELD STUD	FOAM ADHESIVE
1/2" PLAIN GYPSUM	12" O.C. ON EDGE 12" O.C. FIELD	#6 X 1-5/8" DRYWALL SCREW
5/8" PLAIN GYPSUM	12" O.C. ON EDGE 12" O.C. FIELD	#6 X 1-5/8" DRYWALL SCREW
WALL TO FLOOR	48" O.C.	5/16" X 5" LAG W/ WASHER
	2 PER FRAMING CELL	3" X .131 FRAMING NAIL
WALL TO FLOOR (SHEAR WALLS)	48" O.C.	(2) - 3/8" X 5" LAG W/ WASHER
	2 PER FRAMING CELL	3" X .131 FRAMING NAIL
WALL TO WALL	24" O.C.	5/16" X 3" LAG W/ WASHER
	12" O.C.	3" X .131 FRAMING NAIL
WALL TO ROOF	48" O.C.	5/16" X 5" LAG W/ WASHER
	2 PER FRAMING CELL	3" X .131 FRAMING NAIL
WALL TO ROOF (SHEAR WALLS)	48" O.C.	(2) - 5/16" X 5" LAG W/ WASHER
	2 PER FRAMING CELL	3" X .131 FRAMING NAIL
HURRICANE STRAP TO WALL	SEE F02	1.496" FAB38V5
PLATE CHORD TO SPLICE		
2X4	CENTERED AT SPLICE	3X5 MITEK TRUSS PLATE
2X6	CENTERED AT SPLICE	3X5 MITEK TRUSS PLATE
2X8	CENTERED AT SPLICE	5X6 MITEK TRUSS PLATE
2X10	CENTERED AT SPLICE	5X6 MITEK TRUSS PLATE
2X12	CENTERED AT SPLICE	5X6 MITEK TRUSS PLATE
OUTRIGGER TO JOIST	EVERY OUTRIGGER	1-3/8" X 3" LAG BOLT W/ WASHER
FLOOR SILL TO FRAME	1 PER CORNER OF BUILDING	1-3/8" X 10" CARRIAGE BOLT
JOIST TO FRAME	EVERY 48" LENGTH OF BUILDING	1-3/8" X 10" UBOLT(SKID ONLY)
HEADER DESCRIPTION	MATERIAL	
0-4' ROUGH OPENING	2 - 2X4 #2 SYP SANDWICH W/ 1/2" PLYWOOD	
	2 - 2X4 #2 SYP JACK STUD	
	2 - 2X4 #2 SYP KING STUDS	
4'-6' ROUGH OPENING	2 - 2X6 #2 SYP SANDWICH W/ 1/2" PLYWOOD	
	2 - 2X4 #2 SYP JACK STUD	
	2 - 2X4 #2 SYP KING STUDS	



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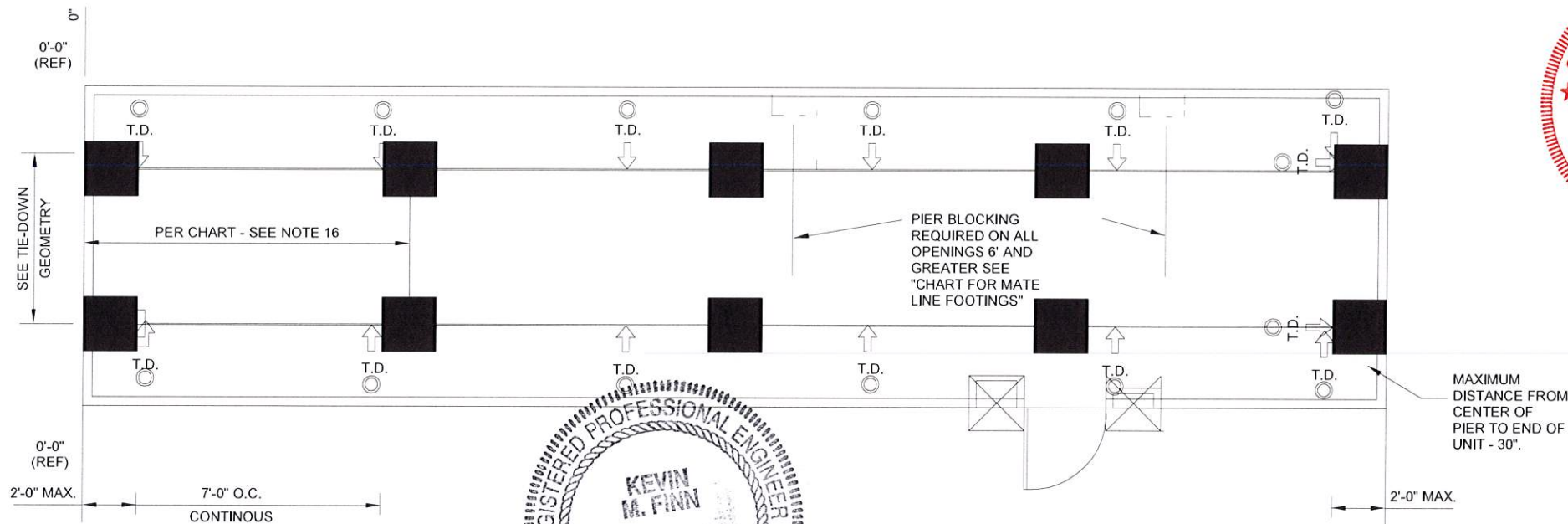
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PROJECT TITLE:	11'-9" X 56' MOBILE OFFICE-VESTA		
DRAWING TITLE:	PROJECT NO:	SHEET NO:	
FASTENING SCHEDULE	2019-01	F01	

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UNIT WIDTH THIS CHART BASED ON I-BEAM CAPACITY ONLY			
I-BEAM SIZE	8'	10' - 12'	12' - 14'
	8'-0" O.C	8'-0" O.C	8'-0" O.C
	10'-0" O.C	10'-0" O.C	10'-0" O.C
	12'-0" O.C	12'-0" O.C	12'-0" O.C
BLOCKING DISTANCE			

FOOTING SIZE - SQ. FOOTING ASSUMED - EACH LEG IS CALCULATED

UNIT WIDTH - 11'-9"

PIER SPACING (FT)	1000 PSF	2000 PSF	3000 PSF
5	1.787 FT	1.364 FT	1.032 FT
6	1.942 FT	1.373 FT	1.121 FT
7	2.086 FT	1.475 FT	1.204 FT
8	2.220 FT	1.570 FT	1.282 FT
9	2.347 FT	1.660 FT	1.355 FT
10	2.467 FT	1.745 FT	1.424 FT
11	2.582 FT	1.826 FT	1.491 FT
12	2.692 FT	1.903 FT	1.554 FT

FOOTING SIZE - SQ. FOOTING ASSUMED - EACH LEG IS CALCULATED

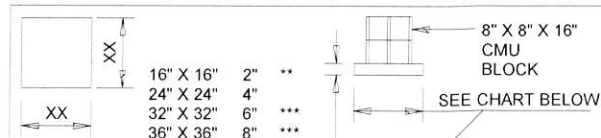
UNIT WIDTH - 13'-9"

PIER SPACING (FT)	1000 PSF	2000 PSF	3000 PSF
5	1.909 FT	1.350 FT	1.102 FT
6	2.077 FT	1.468 FT	1.199 FT
7	2.232 FT	1.578 FT	1.289 FT
8	2.377 FT	1.681 FT	1.372 FT
9	2.514 FT	1.777 FT	1.451 FT
10	2.643 FT	1.869 FT	1.526 FT
11	2.767 FT	1.957 FT	1.598 FT
12	2.885 FT	2.040 FT	1.666 FT

FOOTING SIZE - SQ. FOOTING ASSUMED - EACH LEG IS CALCULATED

UNIT WIDTH - 15'-9"

PIER SPACING (FT)	1000 PSF	2000 PSF	3000 PSF
5	2.023 FT	1.431 FT	1.168 FT
6	2.203 FT	1.558 FT	1.272 FT
7	2.369 FT	1.675 FT	1.368 FT
8	2.524 FT	1.785 FT	1.457 FT
9	2.670 FT	1.888 FT	1.541 FT
10	2.808 FT	1.986 FT	1.621 FT
11	2.940 FT	2.079 FT	1.698 FT
12	3.067 FT	2.169 FT	1.771 FT



** - BASED ON A MIN. 8" WIDE CONCRETE BLOCK CENTERED
TYPICAL BASE PAD & BLOCKING
*** - #4 REBAR - 12" O.C. EACH DIRECTION FOR FOOTINGS GREATER THAN 24" X 24" CENTERED IN HEIGHT OF FOOTING, 3" COVER

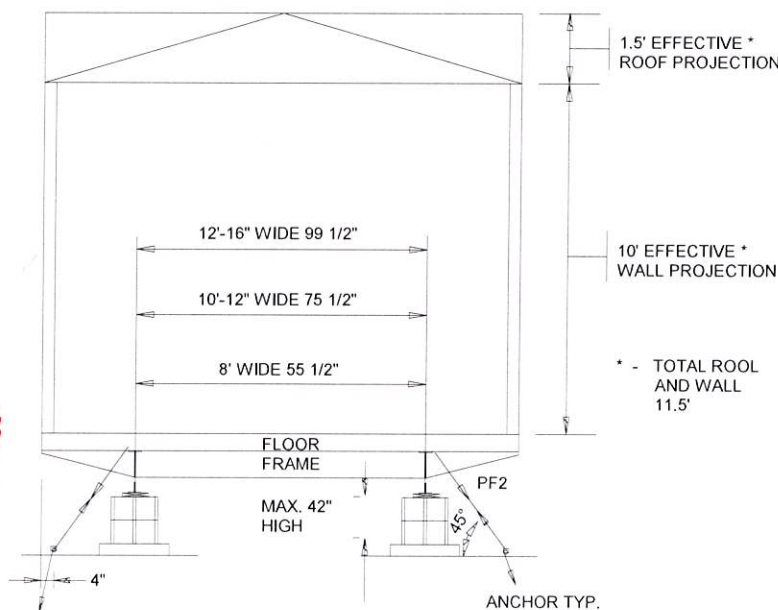
NOTES:

1. RECOMMENDED SUPPORT SPACING SHOWN
2. THIS FOUNDATION DESIGN IS BASED ON SOIL BEARING CAPACITY PER CHART
3. SOIL CAPACITY BASED ON A PLASTICITY INDEX OF 20. NO CONSIDERATION HAS BEEN GIVEN TO GROUNDWATER OR OTHER CONDITIONS THAT MAY AFFECT FOUNDATION STABILITY OR DIFFERENTIAL MOVEMENT. IT IS RECOMMENDED THAT A REGISTERED PROFESSIONAL ENGINEER BE CONSULTED FOR THE SPECIFIC SITE CONDITIONS
4. CORROSION PROTECTION WILL BE IN ACCORDANCE WITH CODE
5. THIS IS A TEMPORARY FOUNDATION ONLY
6. N/A
7. PAD REINFORCING CALCULATIONS TO BE BY REGISTERED ENGINEER
8. BLOCKING TO BE PLACED AS PER CHART
9. TIEDOWN STRAP & DBL. STRAP ANCHOR TO BE WITHIN 2'-0" FROM END OF UNIT
10. TIEDOWN STRAP & DBL. STRAP ANCHOR SPACING TO BE NO MORE THAN 12'-0" APART
11. TIEDOWN STRAP & DBL. STRAP ANCHOR SPACING TO BE ON EXTERIOR SIDE ONLY IF BUILDING IS A MULTIPLE UNIT COMPLEX UNLESS OTHERWISE NOTED.
12. N/A
13. DOUBLE TIEDOWN STRAPPING IS REQUIRED ONLY FOR 12' O.C. STRAP SPACING FOR LOCATIONS IN 130 MPH. EXP. B ZONE. OTHERWISE SINGLE STRAP IS ADEQUATE.
14. PIER DEAD LOAD ASSUMED TO BE 300 LBS
15. - RECOMMENDED BLOCKING FOR EXTERIOR DOOR - MIN FTG - 16" X 16" - PER FLOOR PLAN AND ALL OPENINGS GREATER THAN 4'
16. FOOTING SIZE TO BE DETERMINED BASED ON UNIT WIDTH, SOIL BEARING CAPACITY, AND PIER SPACING. PIER SPACING NOT TO EXCEED I-BEAM SIZE CHART.

- INDICATES I-BEAM MAXIMUM BLOCKING DISTANCE AS PER CHART

- DENOTES TIEDOWN STRAP LOCATION ON UNIT

- DENOTES STRAP ANCHOR RATED 3150 LBS FOR COMBINED ANGLES OF STRAPS



WIND SPEED	UNIFORM LOAD TO FLOOR RIM JOIST	REQUIRED SPACING (FT. - O.C.)
100. EXP. B	184 PLF	12'
130. EXP. B	311 PLF	7'

GROUND ANCHOR TO BE RATED FOR VERTICAL (IF REQUIRED) AND DIAGONAL STRAPS AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS.

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11/13/19

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PROJECT TITLE:
11'-9" X 56' MOBILE OFFICE-VESTA

DRAWING TITLE:
FOUNDATION PLAN

PROJECT NO:
2019-01

SHEET NO:
F02

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BUILDING INNOVATION

DRAINAGE PIPING SCHEMATICS

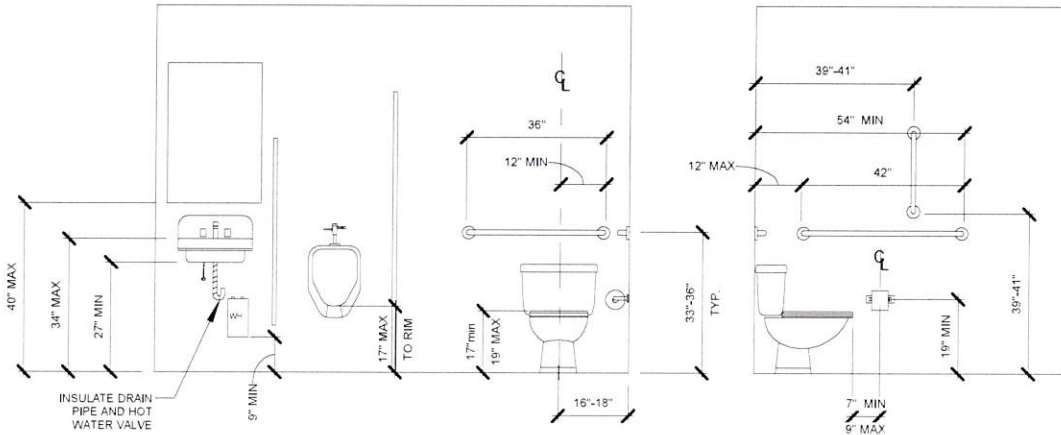
1. ALL DRAINS SHALL BE PVC
2. VENTS MAY BE COMBINED BEFORE PENETRATING ROOF
3. ALL DRAINS LINES ARE STUBBED THROUGH THE FLOOR MANIFOLD TO ONE LOCATION

WATER PIPING SCHEMATICS

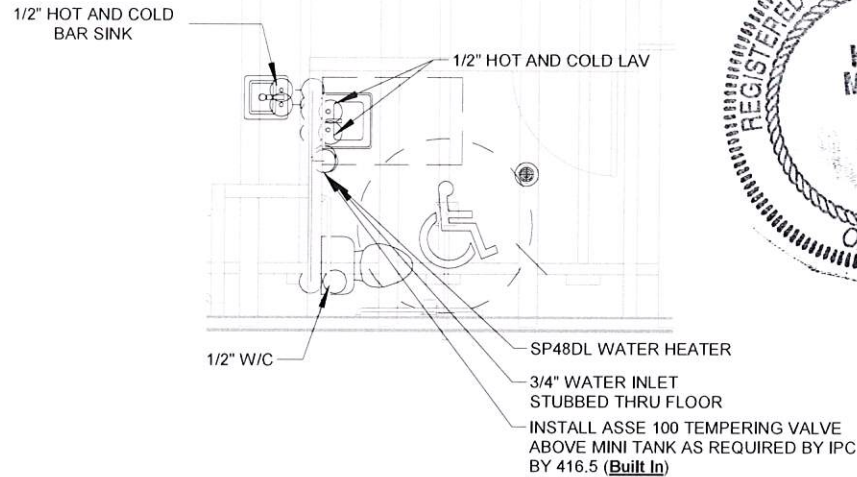
1. HOT AND COLD WATER LINES SHALL BE PEX
2. SHUT OFF VALVES REQUIRED AT ALL FIXTURE
3. EXPOSED HOT WATER AND DRAINS LINES UNDER LAVS/SINK SHALL BE INSULATED
4. INSTALL ASSE 1070 TEMPERING VALVE ABOVE W/H AS REQUIRED BY IPC 416.5
5. WATER HEATER SHALL COMPLY WITH IECC SECTION 504
6. LAV CONTROLS SHALL COMPLY WITH 2012 TAS SECTION 309.4 LEVER ONLY

GRAB BAR DETAIL

- ADA HANDICAP HEIGHT, TANK TYPE TOILET
- WALL HUNG LAVATORY W/ 4" LEVER FAUCET SET
- 42" HANDICAP GRAB BAR
- 36" HANDICAP GRAB BAR
- WH SP48DL EEMAX ELECTRIC WATER HEATER

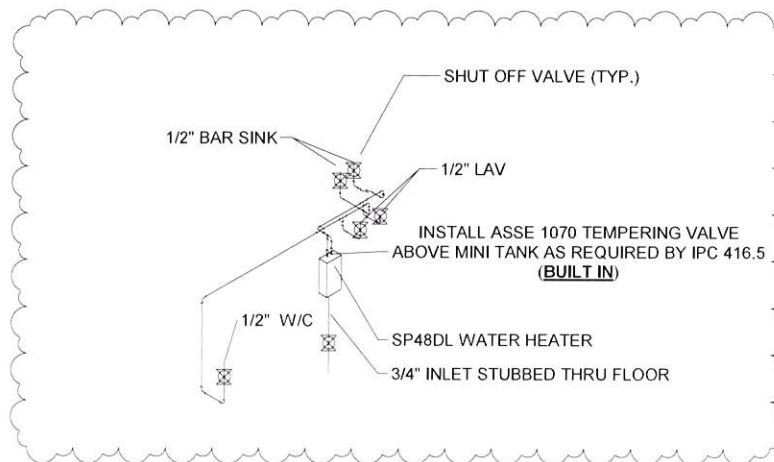


5 GRAB BAR DETAIL
1/4" = 1'-0"

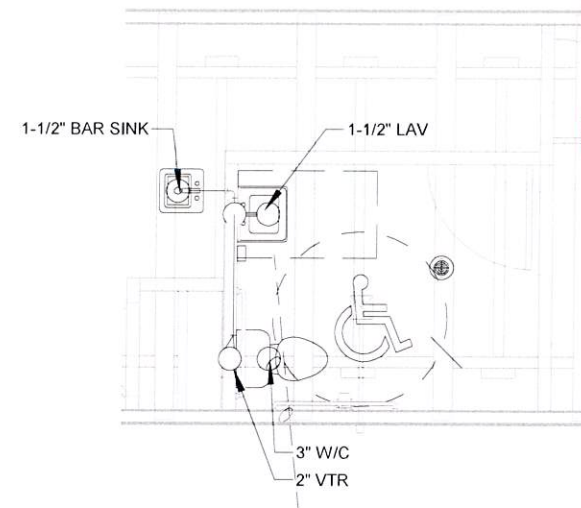


1 M01 PLUMBING PLAN - SUPPLY
3/16" = 1'-0"

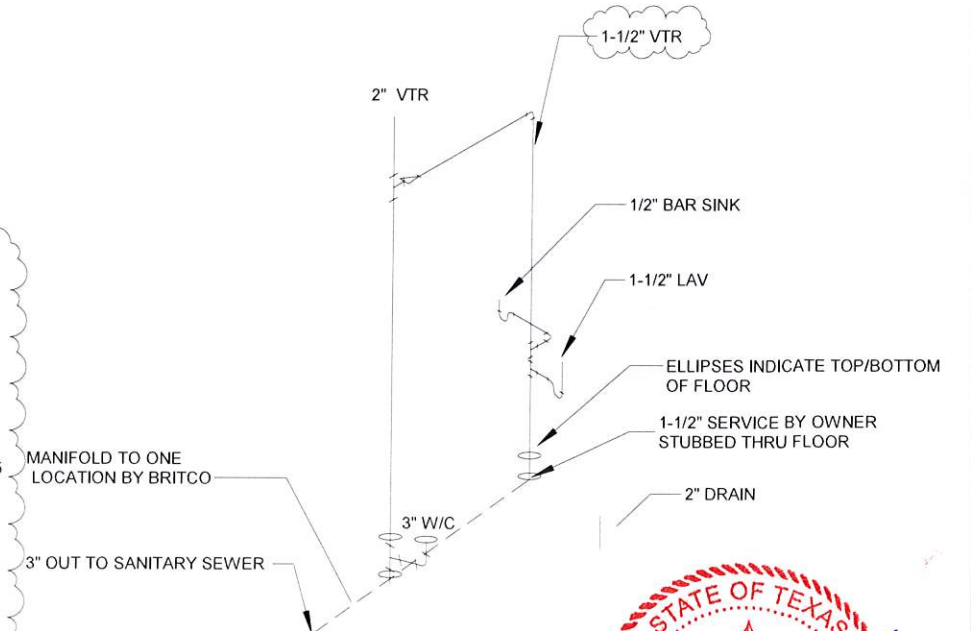
NOTE: WATERLINES TO BE PEX



2 Plumbing-Water Line



4 M01 PLUMBING PLAN - SANITARY
3/16" = 1'-0"



3 Plumbing-Sanitary



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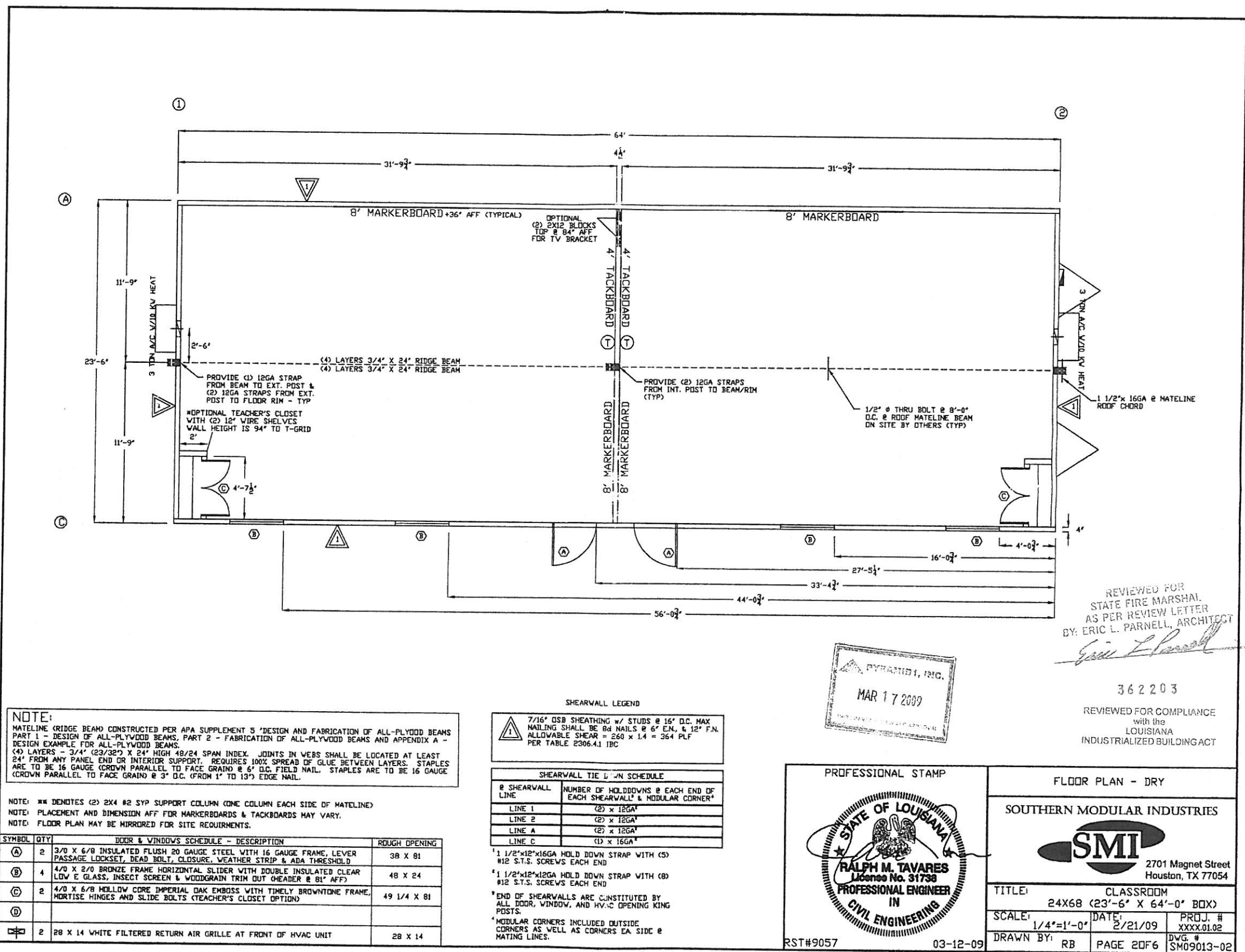
PROJECT TITLE:
11'-9" X 56' MOBILE OFFICE-VESTA

DRAWING TITLE:
PLUMBING PLAN

PROJECT NO:
2019-01

SHEET NO:
M01

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NEC TABLE 310.16
75°F

ELECTRICAL CALC'S				BREAKER SIZE		CALC' C	
CIRCUIT	DEVICE	QTY	WATTS	SIZE	WATTS	SIZE	WATTS
1,3	HVAC	1	10,000	1.25	60A-2P	12,500	
2,4	RECEPT	4	180	1.00	15A-1P	720	
5	RECEPT	3	180	1.00	15A-1P	540	
6	RECEPT	3	180	1.00	15A-1P	540	
7	RECEPT	3	180	1.00	15A-1P	540	
8	RECEPT	4	180	1.00	15A-1P	720	
9	LIGHT	6	128	1.25	15A-1P	960	
	EX/EM	1	15	1.25		19	
10	U/S LT	1	30	1.25		38	
	LIGHT	6	128	1.25	15A-1P	960	
	EX/EM	1	15	1.25		19	
11	RECEPT	2	180	1.00	15A-1P	360	
12 (OPT)	CIRCUIT	1	180	1.00	20A-1P	180	
13 (OPT)	CIRCUIT	1	180	1.00	20A-1P	180	
14 (OPT)	RECEPT	2	180	1.00	15A-1P	360	
15 (OPT)	RECEPT	4	180	1.00	15A-1P	720	
TOTAL WATTS						31,316	
TOTAL AMPS (WATTS/240V)						130.5	

COPPER WIRE SIZE	
CIRCUIT SIZE	WIRE SIZE (W/GRD)
15 AMP	#14
20 AMP	#12
30 AMP	#10
40 AMP	#8
60 AMP	#6
90 AMP	#2

THE CIRCUIT NUMBERS SHOWN DO NOT NECESSARILY DENOTE THE ACTUAL CIRCUIT NUMBERS BUT ARE INTENDED TO DESIGNATE CIRCUITS.

EMT CONDUIT REQUIREMENTS
ALL CONDUCTORS TO BE MINIMUM 90 DEGREE C RATED.
MAXIMUM OF (4) FOUR 15 AMP CIRCUITS PER 1/2" EMT CONDUIT.
MAXIMUM OF (3) THREE 20 AMP CIRCUITS PER 1/2" EMT CONDUIT.
ALL OTHER AMPERAGE CIRCUITS TO BE RUN SEPARATELY IN MINIMUM 3/4" EMT CONDUIT.

NUMBER OF CONDUCTORS AND CONDUIT SHALL BE PER NEC ANNEX C

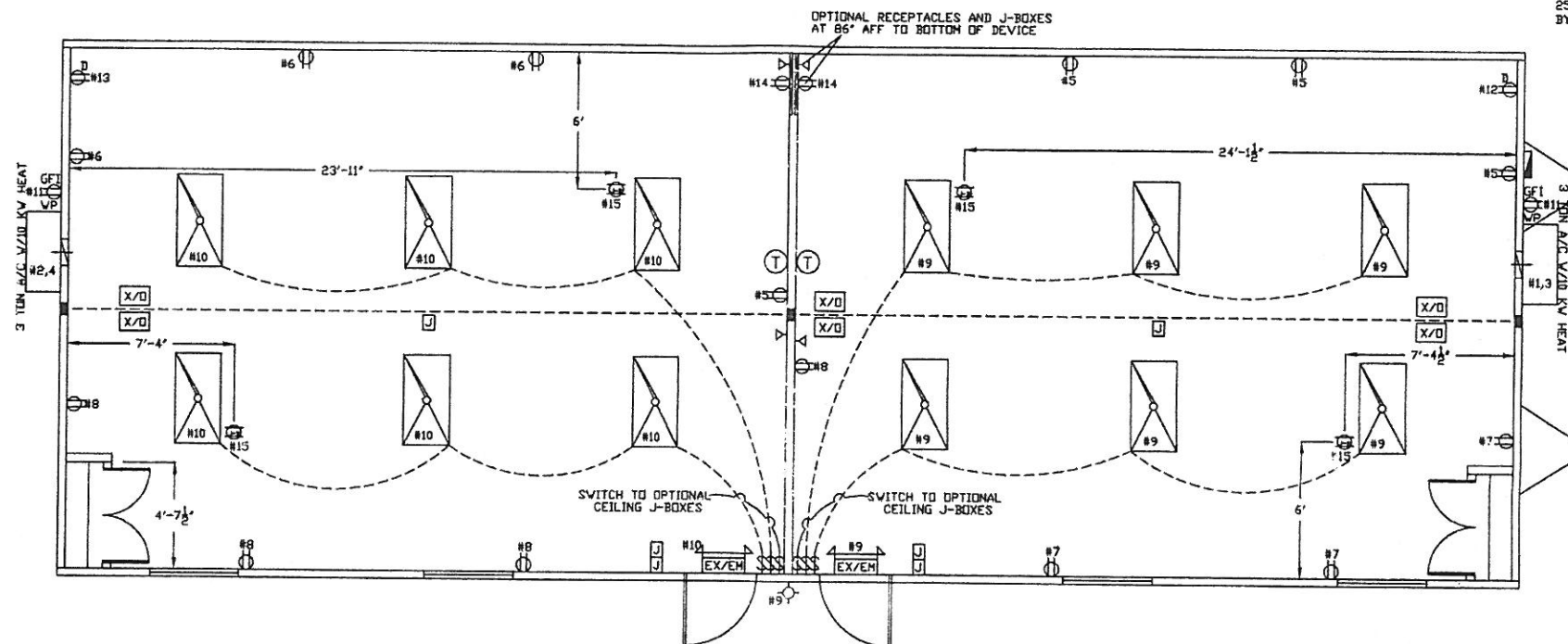
PANEL 120/240V SINGLE PHASE 3-WIRE NEMA 3-R TO BE MARKED AS APPROVED FOR USE AS SERVICE EQUIPMENT.

#6 BARE GROUND WIRE FROM GROUNDING LUG IN PANEL BOX TO GROUNDING BOLT ON FRAME.

MAIN DISTRIBUTION PANEL IF REQUIRED SUPPLIED AND INSTALLED AT SITE BY OTHERS.

8" PVC CONDUIT FOR SITE FEEDERS BY OTHERS PER NEC 2008 ARTICLE 250-96. CONNECTION MADE AT SITE BY OTHERS.

ELECTRICAL PANEL RISER DIAGRAM



SYMBOL	QTY.	DESCRIPTION
1	200 AMP - 120/240V - SINGLE PHASE - NEMA 3 - ELECTRICAL PANEL	
12	4' 4-TUBE FLUORESCENT TB TROFFER LIGHT WITH ELECTRONIC BALLAST (48" TB EB 32 WATT, FIXTURE WATTAGE 128 WATTS) (LESS 2 WITH RESTROOM OPTION)	
1	30 WATT FLUORESCENT WP EXTERIOR LIGHT ON PHOTO CELL	
2	COMBINATION EXIT/EMERGENCY LIGHT W/BATTERY BACKUP	
4	120V SINGLE POLE WHITE TOGGLE SWITCH (6 WITH OPTION)	
14	120V 15 AMP DUPLEX RECEPTACLE GROUNDING TYPE	
4	120V 15 AMP J-BOX FOR PADDLE FAN (OPTIONAL)	
2	120V 20 AMP DEDICATED CIRCUIT - MOUNTED IN CEILING (OPTIONAL)	
6	J-BOX WITH CONDUIT STUB ABOVE T-GRID FOR SITE SUPPLIED FIRE ALARM SYSTEM	
6	J-BOX WITH CONDUIT STUB ABOVE T-GRID FOR SITE (2 OPTIONAL)	
2	PROGRAMMABLE THERMOSTAT (5/2)	

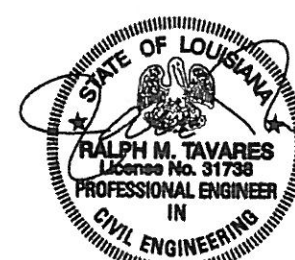
J-BOX ABOVE T-GRID FOR ELECTRIC CIRCUIT CROSSOVER BETWEEN MODULES - LOCATION MAY VARY

REVIEWED FOR STATE FIRE MARSHAL AS PER REVIEW LETTER BY: ERIC L. BARNWELL, ARCHITECT

REVIEWED FOR COMPLIANCE with the FLEX CONDUIT, CONNECTORS (W/ARE FOR CIRCUIT CROSS OVER BETWEEN MODULES AT SITE BY OTHERS.

PYRAMID 1, INC.
MAR 17 2009

PROFESSIONAL STAMP



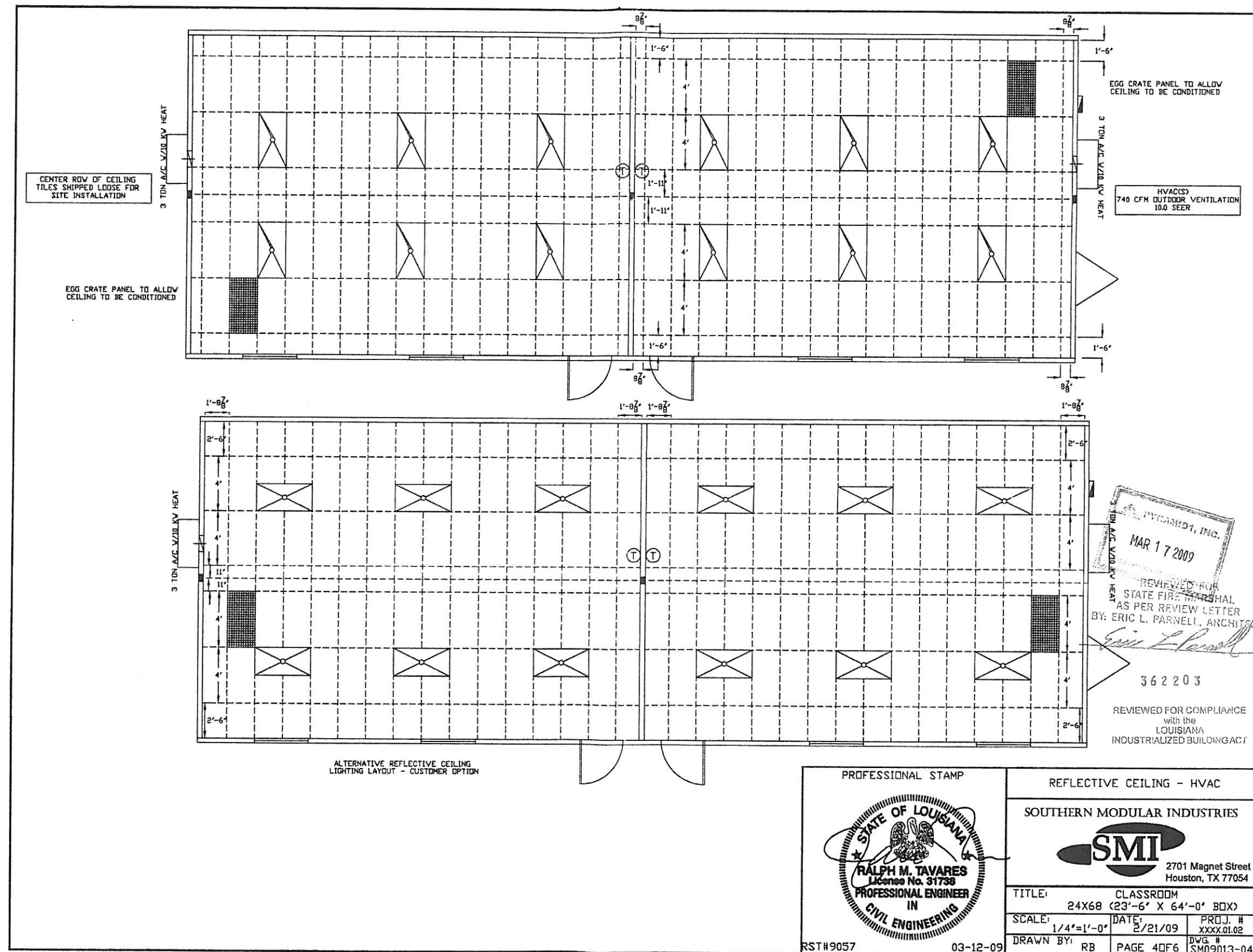
ELECTRICAL PLAN WITH OPTIONS

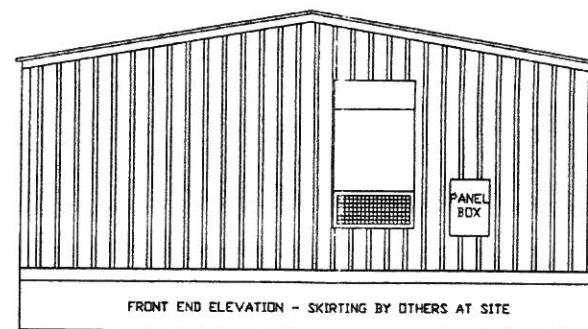
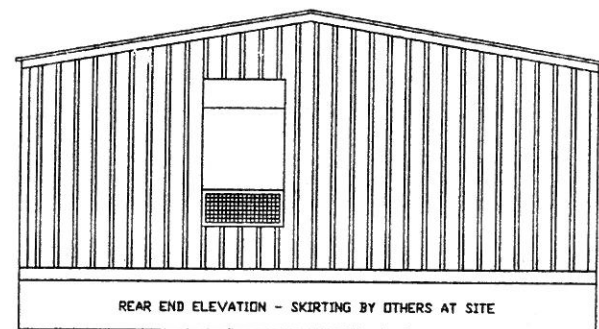
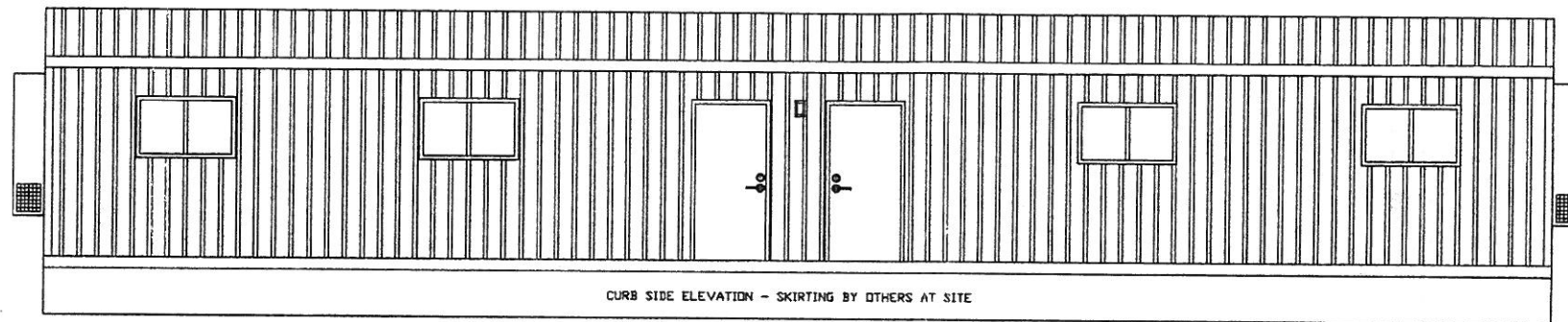
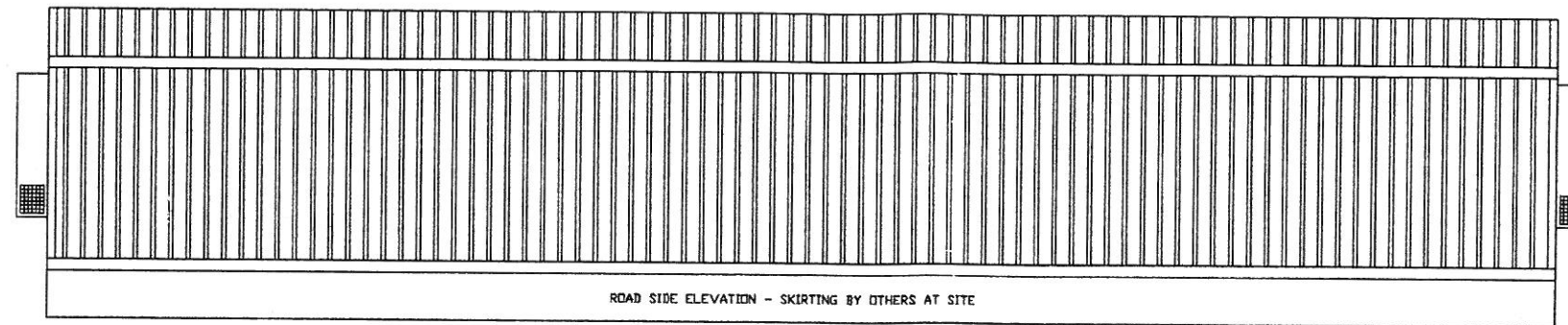
SOUTHERN MODULAR INDUSTRIES



2701 Magnet Street
Houston, TX 77054

TITLE: CLASSROOM
24X68 (23'-6" X 64'-0" BOX)
SCALE: 1/4"=1'-0" DATE: 2/21/09 PROJ. # XXXX.01.02
DRAWN BY: RB PAGE 30F6 DWG. # SM09013-03



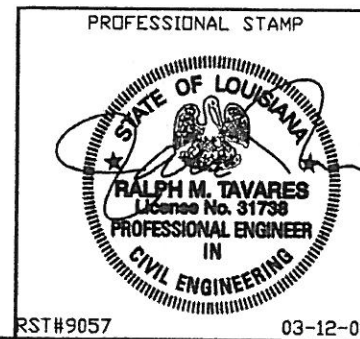
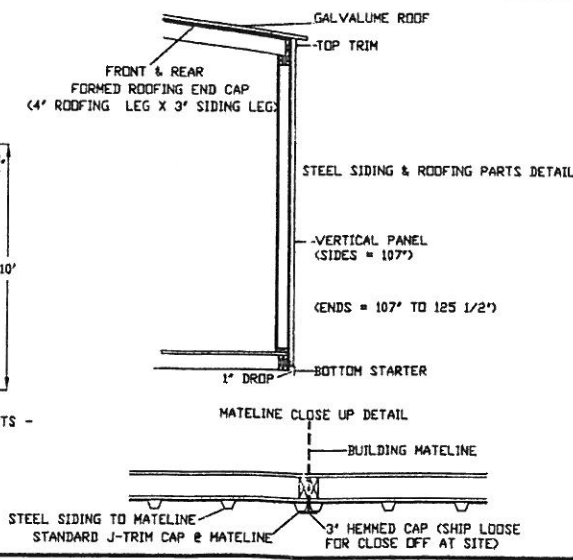
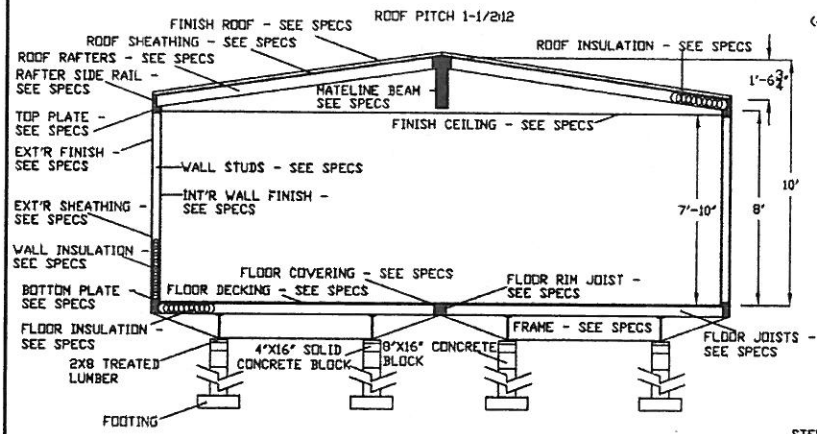



FASTENING SCHEDULE		
DESCRIPTION	FASTENER	LOCATION
JOIST TO SILL	3-16d	END NAIL
SOLE PLATE TO JOIST OR BLOCKING	16d @ 15" O.C.	TYPICAL FACE NAIL
TOP PLATE TO STUD	2-16d	END NAIL
STUD TO SOLE PLATE	4-8d (2-A6d)	TDE NAIL (END NAIL)
DOUBLE STUDS	16d @ 24" O.C.	FACE NAIL
DOUBLE TOP PLATES	16d @ 24" O.C. (8-16d)	FACE NAIL (LAP SPLICE)
BLOCKING BETWEEN JOISTS/RAFTER/STUDS	3-8d	TDE NAIL
RIM JOIST TO TOP PLATE	8d @ 6" O.C.	TOE NAIL
TOP PLATES LAPS, INTERSECTIONS	2-16d	FACE NAIL
RAFTERS TO PLATE	HE-5A CLIP w/ (3) 8d	FACE NAIL
SMART PANEL TO STUD (8d CORR RES)	6" D.C. FIELD (3" D.C. EDGE)	FACE NAIL
ROOF DECKING TO RAFTERS	8d @ 12" O.C. FIELD (6" D.C. EDGE)	FACE NAIL
FLOOR DECKING TO JOIST	10d @ 6" O.C. FIELD (10" D.C. FIELD)	FACE NAIL
BOTTOM BOARD TO RIM JOIST	1"X1/2" WIDE CROWN 812" D.C.	FACE NAIL
GYPSON TO STUDS	PER GA-216	PER GA-216
GYPSON TO RAFTERS	PER GA-216	PER GA-216
RAFTER CHORD SPLICE (6" CHSTIGESPLICES)	16d @ 3" O.C.	PER MANUFACTURER
STUD TO ROOF/FLOOR SILL	SIMPSON HES-5A CLIP V/5-8d	TD PLATES & STUDS
OR OVERLAP SMART PANEL 4"		
OUTRIGGERS TO JOISTS	1-3/2"X3" LAG W/VASHER	FACE SCREW
FLOOR SILL TO FRAME	1-3/8"X10" CARRIAGE BOLT	1 PER CORNER
WALL TO WALL	16d @ 24" O.C.	FACE NAIL

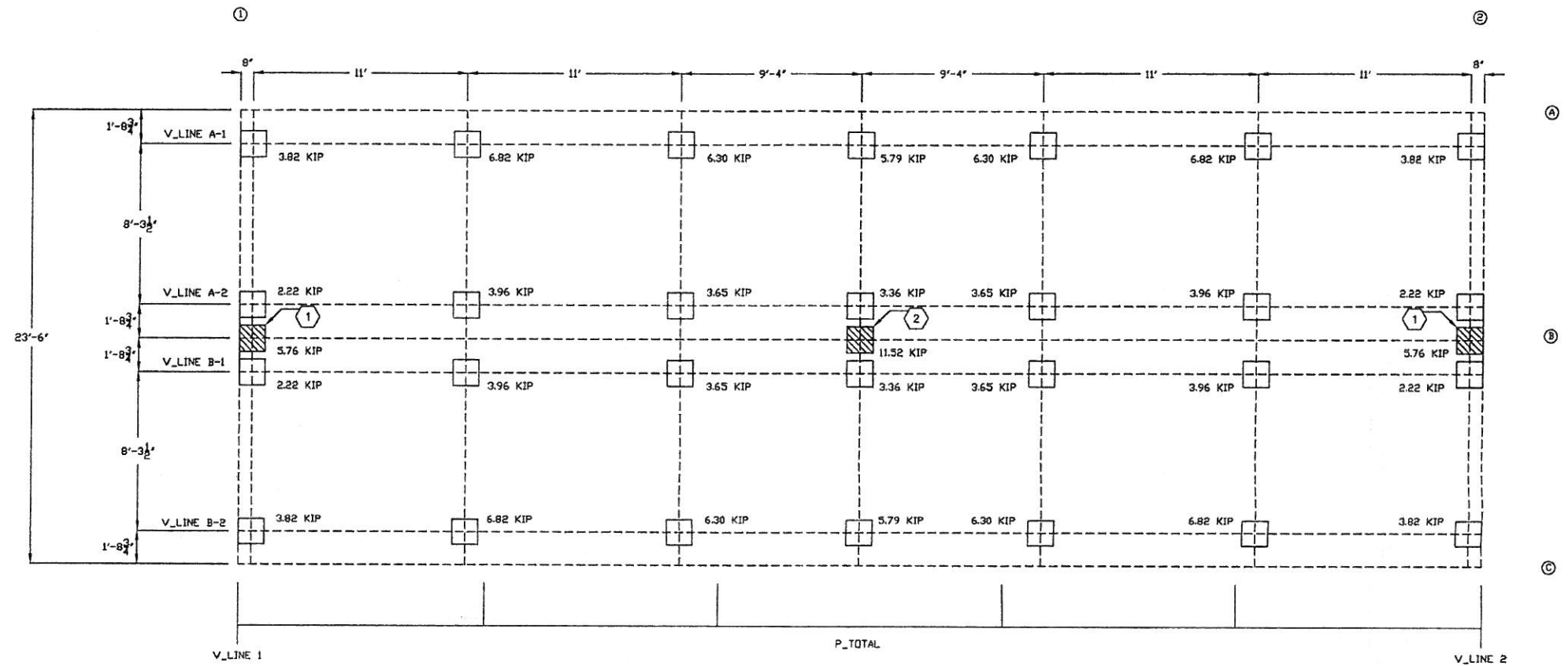
HEADER SCHEDULE	
UP TO 4" OPENING	
2-2X4 #2 SPF FLAT HEADER	
1-2X4 #2 SPF JACK STUD	
2-2X4 #2 SPF KING STUDS	
UP TO 6" OPENING	
4-2X4 #2 SPF FLAT HEADER	
2-2X4 #2 SPF JACK STUDS	
2-2X4 #2 SPF KING STUDS	

362203

REVIEWED FOR COMPLIANCE
with the
LOUISIANA
INDUSTRIAL BUILDING ACT
REVIEWED FOR
STATE FIRE MARSHAL
VIEW LETTER
BY SCHEDULE PARNELL, ARCHITECT



CROSS SECTION-ELEVATION VIEW LETTER	
FASTENING SCHEDULE	
SOUTHERN MODULAR INDUSTRIES	
	
2701 Magnet Street Houston, TX 77054	
TITLE:	CLASSROOM
SCALE:	24X68 (23'-6" X 64'-0" BOX)
DATE:	2/21/09
PROJ. #	XXXX.01.02
DRAWN BY:	RB
PAGE	50F6
DWG. #	SM09007-05



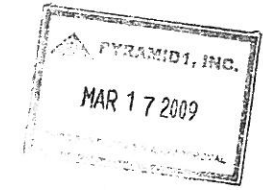
P TOTAL	=	2.5 KIPS
V LINE 1	=	12.7 KIPS
V LINE 2	=	12.7 KIPS
V LINE A-1	=	3.72 KIPS
V LINE A-2	=	1.73 KIPS
V LINE B-1	=	1.73 KIPS
V LINE B-2	=	3.72 KIPS

NOTE:
 1. TOTAL LB IS FOUNDATION ANCHORAGE SHEER FORCE (TOTAL) WHICH WILL BE DESIGNED BY FOUNDATION ENGINEER.
 2. PROVIDE 1ST OUTRIGGER & CROSS MEMBER MAXIMUM 4' FROM EACH END.

NOTE:
 CONCENTRATED OR POINT LOADS ARE DUE TO ROOF LOAD ONLY AND THE FLOOR LOAD SHALL BE CONSIDERED BY FOUNDATION ENGINEER.

- ① TRANSFER NET UPLIFT OF 3.94K NET UPLIFT ONTO FOUNDATION
- ② TRANSFER NET UPLIFT OF 7.87K NET UPLIFT ONTO FOUNDATION

NOTES:
 1. SHADED PIERS (IF SHOWN) REQUIRE ADDITIONAL BLOCKING TO BOTTOM OF FLOOR JOISTS.
 2. SOUTHERN MODULAR INDUSTRIES, LP ASSUMES NO RESPONSIBILITY FOR ACTUAL FOUNDATION DESIGN AND/OR CONSTRUCTION.
 3. CRAWL SPACE ARE TO BE VENTILATED AT 1 S.F. PER 150 S.F. OF CRAWL SPACE.
 4. THIS IS A SUGGESTED PLAN ONLY. FOUNDATION TO BE DESIGNED BY A PROFESSIONAL ENGINEER PER LOCAL SOIL AND CLIMATIC CONDITIONS.
 5. PROVIDE POSITIVE UNDER DRAINAGE MINIMUM 4" PEA GRAVEL AND 6 MIL POLYETHYLENE.
 6. PROVIDE MINIMUM 22" X 24" ACCESS TO CRAWL SPACE AREA.
 7. MINIMUM FOOTING DEPTH DETERMINED BY LOCAL SITE CLIMATIC REQUIREMENTS.
 8. PIERS IN AXLE AREA MAY REQUIRE REMOVAL OF FRAME RUNNING GEAR.
 9. KIP LOADS BASED ON MINIMUM 3,000# LOAD BEARING SOIL.



PROFESSIONAL STAMP		SUGGESTED BLOCKING PLAN	
		SOUTHERN MODULAR INDUSTRIES	
		2701 Magnet Street Houston, TX 77054	
RST#9057		03-12-09	
TITLE: CLASSROOM		24X68 (23'-6" X 64'-0" BOX)	
SCALE: 1/4"=1'-0"	DATE: 2/21/09	PROJ. #	XXXX.01.02
DRAWN BY: RB	PAGE 6 OF 6	DWG. #	SM09013-07

SOUTHERN MODULAR INDUSTRIES

12X52 RESTROOM
11'-9" X 48'-0" ACTUAL SIZE
564 SQUARE FEET
OCCUPANT LOAD: 14

BUILDING LOCATION: LA - TX - OK
SHIPPING HEIGHT = 13'-6"

FRAME	-----	M12 X 11.0 JR I-BEAM ASTM A-289 STEEL
I-BEAM	-----	48" D.C. ASTM A-289 FORMED STEEL - 75-1/2"
CROSSMEMBER	-----	48" D.C. ASTM A-289 FORMED STEEL - 31-3/4"
OUTRIGGER	-----	REMOVABLE WITH 2-5/16" COUPLER & ELEVATING JACK
WHEEL	-----	TRIPLE 60009 (2 BRAKE - 1 IDLER) - 75-1/2" S.C.
AXLES	-----	800 X 14.5 X 10 PLY
TIRES	-----	MINIMUM 3 MIL BLACK ASPHALT
FLOOR	-----	WOVEN REINFORCED PLASTIC
BOTTOM BOARD	-----	R-19 UNFACED FIBERGLASS
INSULATION	-----	2X6 R2 SYP @ 16" OC TRANSVERSE - DOUBLE RIM JOIST
JOIST	-----	SINGLE 2X6/2" TAG PLYWOOD STURDIFLOOR RATED 24" C.C.
DECKING	-----	V/104 6" B.N. 6" E.N. 12" F.N.
COVERING	-----	COMMERCIAL VINYL ROLL GOODS - SMI STANDARDS
	-----	4" VINYL COVE BASE - SMI STANDARD

EXTERIOR WALLS	-----	2X4 R2 SYP OR EQUAL @ 16" O.C.
STUDS	-----	NOTE THE STUDS ARE DOUBLED @ 16" OC FIRST 5' AT FRONT AND BACK CORNER
BOTTOM PLATE	-----	SINGLE 2X4 R2 SYP
TOP PLATE	-----	DOUBLE 2X4 R2 SYP
WALL HEIGHT	-----	8'-0" NOMINAL
WALL COVERING	-----	WHITE FRP OVER 1/2" HR SHEETROCK TO 8'-0"
INSULATION	-----	R-13 KRAFT FACED FIBERGLASS
SHEATHING	-----	7/16" OSB RATED 24" PER NEC-124 & FULL HOUSEWRAP
	-----	SEE SHEATHING TYPE PAGE 2
SIDING	-----	26 GAUGE HI RID STEEL
SIDING COLOR	-----	T33
TRIM	-----	MATCHING 26 GAUGE STEEL
TRIM COLOR	-----	T33
SKIRTING	-----	OPTIONAL SHIP LOOSE IN SHEETS

INTERIOR WALLS	-----	2X4 (2X6) R2 SYP @ 16" O.C.
STUDS	-----	SINGLE R2 2X4 (2X6) SYP
BOTTOM PLATE	-----	DOUBLE R2 2X4 (2X6) SYP
TOP PLATE	-----	DOUBLE R2 2X4 (2X6) SYP
WALL HEIGHT	-----	8'-0" NOMINAL
WALL COVERING	-----	WHITE FRP OVER 1/2" HR SHEETROCK TO 8'-0"
INSULATION	-----	R-11 UNFACED FIBERGLASS

ROOF	-----	2X6 R2 SYP RAFTERS @ 16" O.C. TYPICAL. 20# ROOF LOAD
RAFTERS	-----	2X6 OUTSIDE RAILS - 1/2" PITCH (DOOR SIDE HIGH SIDE)
CEILING PANELS	-----	2X4 WHITE VINYL FACED GYPSUM 1-GRID SYSTEM-FINISH HEIGHT 7'-10"
INSULATION	-----	R-30 UNFACED FIBERGLASS W/NETTING SUPPORT
SHEATHING	-----	11/32" CBR PLYWOOD (15# FELT) W/84 6" E.N. 12" F.N. NOTE: FASTENERS TO BE 3"
	-----	E.N. 6" F.N. FIRST 5' AT FRONT AND BACK CORNER BLOCKED DIAPHRAGM 12'-0" FROM
ROOFING	-----	E.N. ENDWALL W/ 2 1/2" B.N. 4" E.N. & 12" F.N.
	-----	26 GAUGE HI RID GALVALUME - 1-1/2" OVERHANG ON 48" SIDES

EXTERIOR DOORS	-----	(4) 5/8 X 6/8 MM 20 GAUGE STEEL WITH 16 GAUGE FRAME, FLUSH
	-----	CLOSURE, DEAD BOLT (BEST CONSTRUCTION CORE), PUSH/PULL PLATES,
	-----	ADA THRESHOLD AND WEATHER STRIP

ELECTRICAL	-----	120/240 VOLT SINGLE PHASE, 3 WIRE, 60 HZ. WITH GROUND
SERVICE	-----	(1) 100 AMP MAIN MAIN BREAKER MEMA 3 EXTERIOR TYPE
LOAD CENTER	-----	1-1/2" CORDSET AT SITE BY OTHERS
ENTRANCE	-----	MINIMUM #12 THIN AWG. COPPER W/GROUND IN ENT AND/OR MC CABLE
RACEWAY	-----	(6) 4" TWO TUBE 18 TROFFER FLUORESCENT TYPE
LIGHTS	-----	(4) VP EXTERIOR VANDAL RESISTANT WITH 30 WATT FLUORESCENT BULB
RECEPTACLES	-----	(4) 120 VOLT 20 AMP WHITE GFCI TYPE
	-----	(1) 120 VOLT 20 AMP WHITE GFCI TYPE - EXTERIOR VP MOUNT
SWITCHES	-----	(6) 120 VOLT 15 AMP WHITE TOGGLE TYPE

PLUMBING	-----	TYPE L COPPER
SUPPLY LINES	-----	PVC DWV-SCM 40 DRAIN-WASTE-VENT LINES (CONCEALED) STUBBED THRU FLOOR
WASTE LINES	-----	(1) 120 VOLT 10 GALLON TANK TYPE WITH TAP VALVE AND METAL DRAIN PAN
WATER HEATER	-----	(2) WHITE CHINA TANK TYPE WITH ADA ELONGATED BOWL & OPEN FRONT SEAT
WATER CLOSET	-----	(2) WHITE CHINA TANK TYPE WITH ELONGATED BOWL & OPEN FRONT SEAT
URINAL	-----	(2) WHITE CHINA WALL HUNG WITH FLUSH VALVE
LAVATORY	-----	(2) WHITE CHINA 20X17 WALL HUNG WITH LEVER FAUCET & ADA INSULATED PIPE WRAP
ACCESSORIES	-----	(2) SET OF GRAB BARS - (2) 18" X 36" HORIZONTAL WITH CLIPS
MISC.	-----	SHUT OFF VALVES AT FIXTURES
	-----	(6) FLOOR DRAIN WITH AUTOMATIC TRAP PRIMER
	-----	(2) TOILET PAPER HOLDERS
	-----	STEEL MODERITY PARTITIONS AND URINAL SCREENS

HVAC	-----	(2) 10 KW, 240 VOLT SINGLE PHASE HEAT STRIP
HEATING	-----	(2) 3 TON 36,000 BTU 240 VOLT SINGLE PHASE AIR CONDITIONERS
COLING UNIT	-----	FOIL FACED RIGID FIBERGLASS MAIN TRUNK LINE WITH 6" FOIL
DUCT	-----	FACED INSULATED FLEX TAKE OFF'S
DIFFUSERS	-----	PERFORATED TYPE
RETURN AIR	-----	VIA WALL JUMPERS TO GYPSUM LINED PLENUM TO FRONT OF HVAC UNIT
THERMOSTAT	-----	(2) WALL MOUNT PROGRAMMABLE (3/2)
EXHAUST FANS	-----	(4) 67M CFM CEILING MOUNT EXHAUST FAN DUCTED WITH ROOF CAP
	-----	(2) 350 CFM CEILING MOUNT EXHAUST FAN DUCTED WITH ROOF CAP

BUILDING CODE NOTES:

- 7/16" OSB 24" RATED SHEATHING SHALL BE SUFFICIENT FOR STRUCTURAL SHEAR WALL REQUIREMENTS AT FASTENING SCHEDULE.
- BLOCKING AND ANCHORING BELOW FRAME BY OTHERS.
- DEALER SHALL BE RESPONSIBLE FOR ON SITE BARRIER FREE PROVISIONS, STEPS, RAMPS, PARKING SIGNS, ETC - BUILDING APPROACH (WALK OR RAMP) WITH A MINIMUM WIDTH OF 5' AND A GRADIENT OF NOT LESS THAN 1:1 FOOT IN 20 FEET.
- ALL LOOKS TO BE UNLOCKABLE FROM THE INTERIOR WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE.
- CORROSION RESISTANCE FLASHING AT TOP AND SIDES OF DOORS, WINDOWS AND AT ROOF PENETRATIONS.
- ALL GLAZING WITHIN 24" OF EXTERIOR PASSAGE DOORS AND INTERIOR PASSAGE DOORS WITHIN 18" OF FLOOR TO BE "SAFETY GLAZED" AND SO MARKED.

DATA PLATE IS ATTACHED IN VICINITY OF THE ELECTRICAL PANEL.
STATE LABEL (IF APPLICABLE) IS AFFIXED IN VICINITY OF THE ELECTRICAL PANEL.

SPECIAL CONDITIONS/LIMITATIONS:

BUILDING GOOD FOR SECC ZONE 1 THRU 7.
FIRE ALARM SYSTEM IF REQUIRED BY LOCAL TO BE PROVIDED AND INSTALLED BY OTHERS AT SITE PER LOCAL CODE REGULATIONS.
100 PER SECTION 1609.1.4 EXCEPTION - 7/16" OSB COVER PANELS FOR WINDOWS TO BE SUPPLIED AT SITE BY OTHERS (IF APPLICABLE).
BOTTLE WATER COOLER (3) PROVIDED AT SITE BY OTHERS.
MOP SINK PROVIDED AT SITE BY OTHERS.

BUILDING CODE NOTES:

THE JOB SPECIFICATIONS SUPERSEDES THE DETAIL SPECIFICATIONS WHERE THERE IS A CONFLICT. BUILDING SHALL BE LOCATED MINIMUM 20' FROM EXISTING PROPERTY LINE. BUILDINGS ON 1-1/2" CORDSET PROPERTY SHALL BE ASSUMED TO HAVE A PROPERTY LINE BETWEEN THEM. THE BUILDING EXTERIOR AND THE FACILITIES WITHIN THE BUILDING SHALL BE IDENTIFIED WITH THE INTERNATIONAL SYMBOL OF ACCESSIBILITY BY OTHERS.

INDEX OF DRAWINGS

PAGE	TITLE	DWG DATE
1/6	COVER-SPECIFICATIONS	6/05/09
2/6	BUILDING FLOOR PLAN	6/05/09
3/6	ELECTRICAL PLAN - REFLECTIVE CEILING - HVAC	6/05/09
4/6	PLUMBING SCHEMATICS	6/05/09
5/6	CROSS SECTION - ELEVATIONS - FASTENING - DETAILS	6/05/09
6/6	SUGGESTED BLOCKING PLAN	6/05/09

DESIGN PARAMETERS

OCCUPANCY GROUP B
CONSTRUCTION TYPE V8

DESIGN CRITERIA

ROOF LIVE LOAD: 20 PSF
ROOF DEAD LOAD: 10 PSF
FLOOR LIVE LOAD: 50 PSF
FLOOR DEAD LOAD: 10 PSF
WIND HORIZONTAL: 130 MPH, EXPOSURE 'C' 3sg
SEISMIC ZONE: Ss=0.919g S1=0.276g
SEISMIC DESIGN CAT D, SITE CLASS D SEISMIC GROUP 3

LOUISIANA CODES

2005 NATIONAL ELECTRICAL CODE
2006 INTERNATIONAL BUILDING CODE (EXCLUDING CHAPTERS 1, 11, 27 AND 29)
2006 INTERNATIONAL MECHANICAL CODE
2000 LOUISIANA STATE PLUMBING CODE
2006 INTERNATIONAL FUEL & GAS CODE
2004 ENERGY CODE ASHRAE 90.1

TEXAS CODES

2008 NATIONAL ELECTRICAL CODE
2006 INTERNATIONAL BUILDING CODE
2006 INTERNATIONAL MECHANICAL CODE
2006 INTERNATIONAL PLUMBING CODE
2006 INTERNATIONAL FUEL & GAS CODE
2006 INTERNATIONAL ENERGY CONSERVATION CODE
1994 TEXAS ACCESSIBILITY STANDARDS

OKLAHOMA CODES

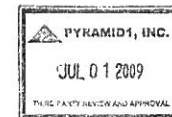
2005 NATIONAL ELECTRICAL CODE
2006 INTERNATIONAL BUILDING CODE
2006 INTERNATIONAL MECHANICAL CODE
2006 INTERNATIONAL PLUMBING CODE
2006 INTERNATIONAL FUEL & GAS CODE
NFPA 101-2000
ADAAG

367276

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: ERIC L. PARNELL, ARCHITECT

Eric L. Parnell

REVIEWED FOR COMPLIANCE
WITH THE
LOUISIANA
INDUSTRIALIZED BUILDING ACT



PROFESSIONAL STAMP



COVER - SPECIFICATIONS

SOUTHERN MODULAR INDUSTRIES

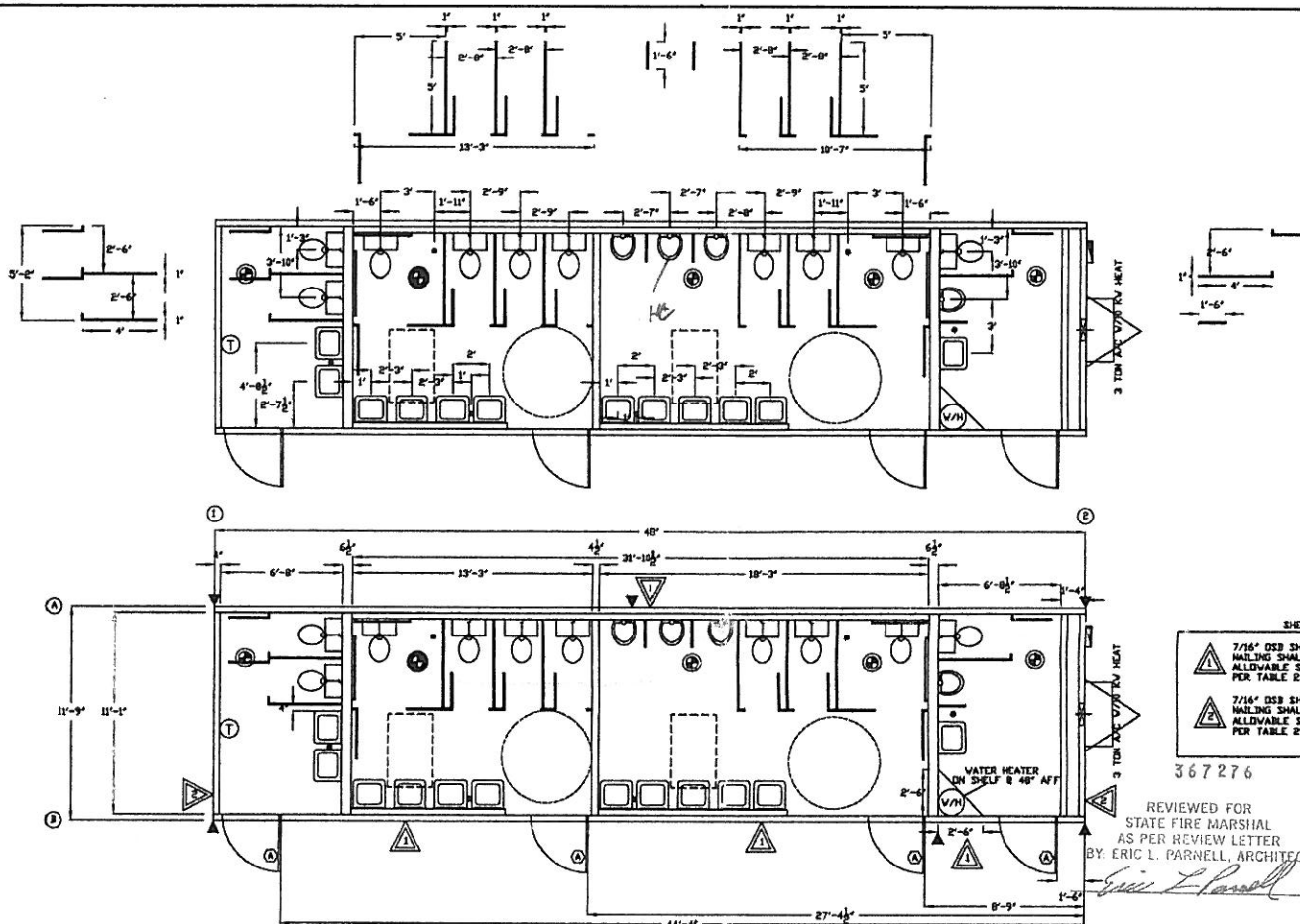


2701 Magnet Street
Houston, TX 77054

TITLE:	RESTROOM
SCALE:	12X52 (11'-9" X 48'-0" BOX)
DRAWN BY:	RB
DATE:	6/05/09
PROJECT #:	XXXXX01
PAGE:	10F6
DWG. #:	SM09041-01

RST#9153

06-09-09



SHEARWALL LEGEND

7/16" OSB SHEATHING w/ STUDS @ 16" O.C. MAX
NAILING SHALL BE 8d NAILS @ 6" E.A. & 12" F.M.
ALLOWABLE SHEAR = 250 x 14 = 350 PLF
PER TABLE 2306.4.1 IBC

7/16" OSB SHEATHING w/ STUDS @ 16" O.C. MAX
NAILING SHALL BE 8d NAILS @ 4" E.A. & 12" F.M.
ALLOWABLE SHEAR = 300 x 14 = 420 PLF
PER TABLE 2306.4.1 IBC

367276

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY ERIC L. PARNELL, ARCHITECT

PYRAMID1, INC.
JUL 01 2009
FIELD PARTY REVIEW AND APPROVAL

REVIEWED FOR COMPLIANCE
with the
LOUISIANA
INDUSTRIALIZED BUILDING ACT

▲ TYPICAL TIE-DOWN STRAP

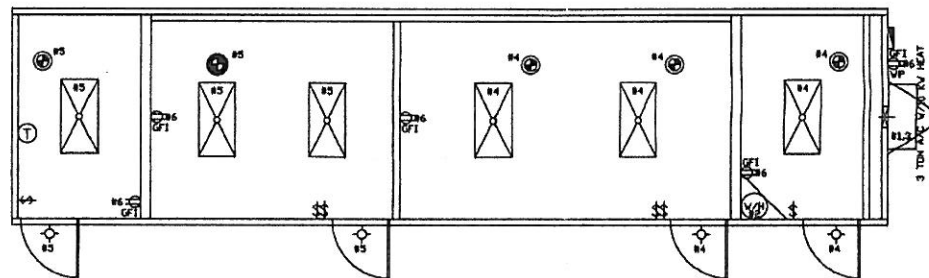
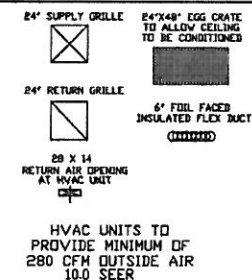
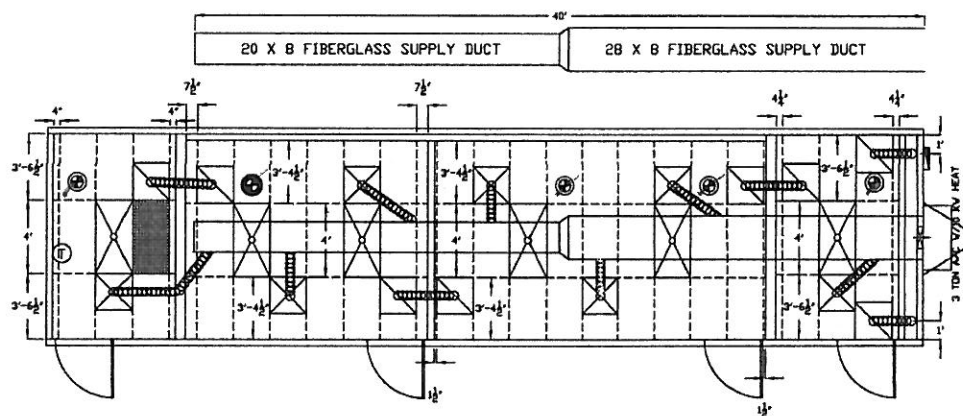
SHEARWALL TIE-DOWN SCHEDULE	
# SHEARWALL LINE	NUMBER OF TIE-DOWNS @ EACH END OF EACH SHEARWALL & MODULAR CORNER*
LINE 1	(2) x 12GA
LINE 2	(2) x 12GA
LINE A	(1) x 12GA
LINE C	(1) x 12GA

* 1/2"x12"x12GA HOLD DOWN STRAP WITH (2) 812 S.T.S. SCREWS EACH END
* 1/2"x12"x12GA HOLD DOWN STRAP WITH (2) 812 S.T.S. SCREWS EACH END
* END OF SHEARWALLS ARE CONSTITUTED BY ALL DOOR, WINDOW, AND HVAC OPENING KING POSTS.
* MODULAR CORNERS INCLUDED OUTSIDE CORNERS AS WELL AS CORNERS E.A. SIDE @ MATING LINES.

DOOR & WINDOW SCHEDULE

SYMBOL	QTY	DESCRIPTION	ROUGH OPENING
①	4	3/4" X 6/8" INSULATED 20 GAUGE BLANK WITH 16 GAUGE FRAME, CLOSURE, DEAD BOLT (BEST CONST CORE), PUSH/PULL PLATES, WEATHER STRIP & ADA THRESHOLD	30 X 81
②	1	28 X 14 RETURN AIR OPENING AT FRONT OF HVAC UNIT	28 X 14

PROFESSIONAL STAMP RALPH M. TAVARES LICENSE NO. 57708 PROFESSIONAL ENGINEER IN CIVIL ENGINEERING	FLOOR PLAN SOUTHERN MODULAR INDUSTRIES 2701 Magnet Street Houston, TX 77054		
	TITLE: RESTROOM 12X52 (11'-9" X 48'-0" BOX)		
	SCALE: 1/4"=1'-0"	DATE: 5/05/09	PROJ. # K00001
	DRAWN BY: RB	PAGE 20F6	DWG. # SM09041-02



ELECTRICAL CALCS					BREAKER		CALC'D	
CIRCUITS	DEVICE	QTY	WATTS	X'S	SIZE		WATTS	
1/3	HVAC	1	10,000	125	60A-2P		12,500	
2	VTR HTR	1	1,500	125	80A-1P		1,875	
4	LIGHT	3	64	125	15A-1P		240	
	EXH FAN	3	180	125			675	
	D/S LIGHT	2	30	125			75	
5	LIGHT	3	64	125	15A-1P		240	
	EXH FAN	1	180	125	15A-1P		225	
	EXH FAN	1	220	125			275	
	D/S LITE	2	30	125			75	
6	RECEPT	5	180	100	20A-1P		900	
TOTAL WATTS							17,080	
TOTAL AMPS (WATTS/240V)							71.2	

367276

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: ERIC L. PARHILL, ARCHITECT

REVIEWED FOR COMPLIANCE
with the
LOUISIANA
INDUSTRIALIZED BUILDING ACT



COPPER WIRE SIZE		
CIRCUIT SIZE	WIRE SIZE	CU/GALD
15 AMP	#14	
20 AMP	#12	
30 AMP	#10	
40 AMP	#8	
60 AMP	#6	
90 AMP	#2	

THE CIRCUIT NUMBERS SHOWN DO NOT NECESSARILY DENOTE
THE ACTUAL CIRCUIT NUMBERS BUT ARE INTENDED TO DESIGNATE
CIRCUITS.

ENT CONDUIT REQUIREMENTS
ALL CONDUCTORS TO BE MINIMUM 90 DEGREE C BATED.
MAXIMUM OF (4) FOUR 15 AMP CIRCUITS PER 1/2" ENT CONDUIT.
MAXIMUM OF (3) THREE 20 AMP CIRCUITS PER 1/2" ENT CONDUIT.
ALL OTHER AMPERAGE CIRCUITS TO BE RUN SEPARATELY IN
MINIMUM 3/4" ENT CONDUIT.

PANEL
120/240V SINGLE PHASE 3-WIRE NEMA 3-R
TO BE MARKED AS APPROVED FOR USE AS
SERVICE EQUIPMENT.

#6 BARE GROUND WIRE FROM GROUNDING LUG
IN PANEL BOX TO GROUNDING BOLT ON FRAME.

MAIN DISTRIBUTION PANEL SUPPLIED
AND INSTALLED AT SITE BY OTHERS.

2" PVC CONDUIT FOR SITE FEEDERS
BY OTHERS - ALL CONNECTIONS
MADE AT SITE BY OTHERS

ELECTRICAL PANEL
RISER DIAGRAM



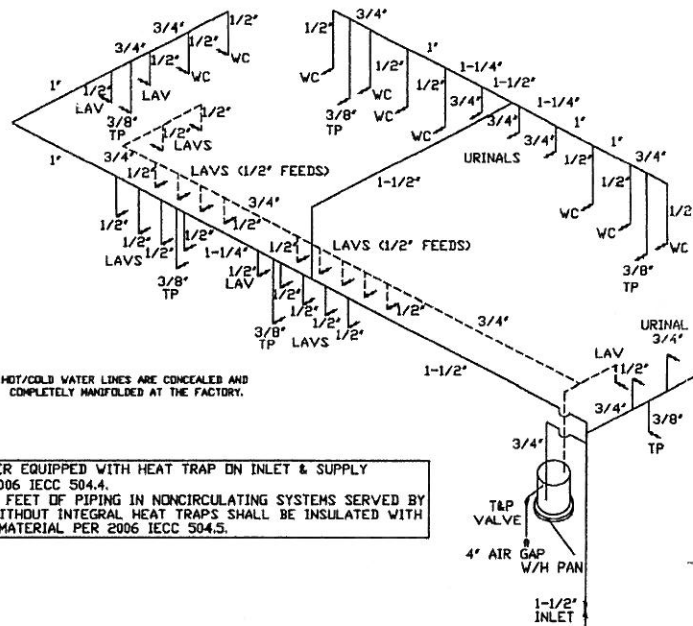
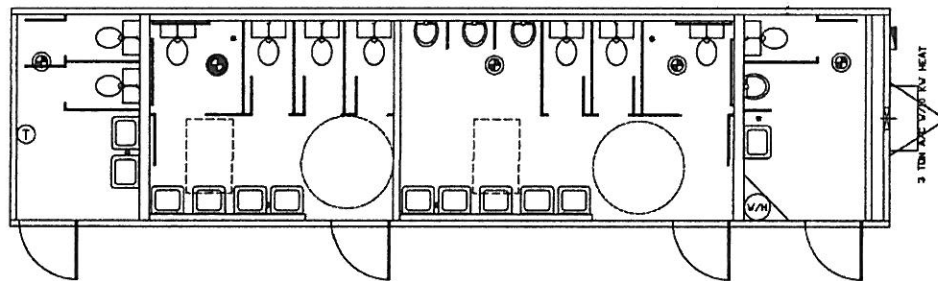
SYMBOL	QTY.	DESCRIPTION
1	1	100 AMP - 120/240V - SINGLE PHASE - NEMA 3 - ELECTRICAL PANEL
2	6	4' 2-TUBE FLUORESCENT TB TROFFER LIGHT WITH ELECTRONIC BALLAST (40" TB EB 32 WATT, FIXTURE WATTAGE 64 WATTS)
3	4	30 WATT FLUORESCENT WP EXTERIOR LIGHT ON PHOTO CELL
4	4	180 CFM CEILING EXHAUST DUCTED THRU ROOF WITH CAP
5	1	250 CFM CEILING EXHAUST DUCTED THRU ROOF WITH CAP
6	6	120V 15 AMP WHITE TOGGLE SWITCH
7	8	120V 15 AMP WHITE DUPLEX RECEPTACLE GROUNDING TYPE
8	4	120V 20 AMP WHITE GFCI RECEPTACLE
9	1	120V 20 AMP WHITE GFCI RECEPTACLE EXTERIOR MOUNT WITH WP COVER
10	1	PROGRAMMABLE THERMOSTAT (5/2)



ELECTRICAL PLAN
REFLECTIVE CEILING - HVAC PLANS
SOUTHERN MODULAR INDUSTRIES



TITLE: RESTROOM
12X52 (11'-9" X 48'-0" BOX)
SCALE: 1/4"=1'-0" DATE: 6/05/09 PROJ. # XXXX.01
DRAWN BY: RB PAGE 30F6 DWG. # SM09041-03

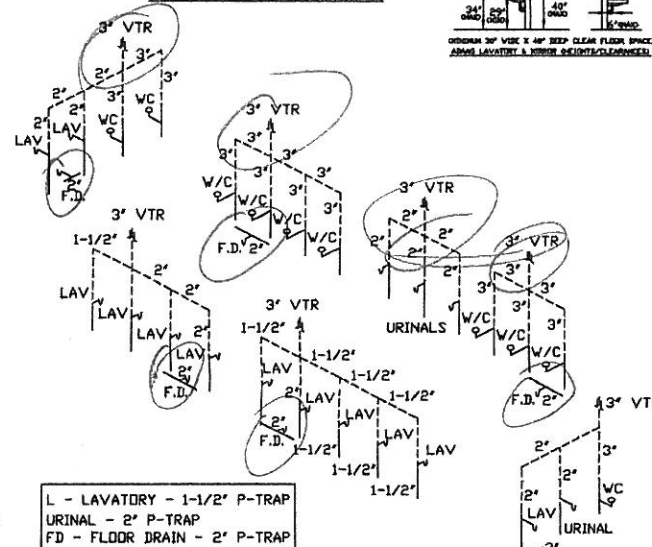


HOT/COLD WATER LINES ARE CONCEALED AND COMPLETELY MANIFOLDED AT THE FACTORY.

WATER HEATER EQUIPPED WITH HEAT TRAP ON INLET & SUPPLY LINES PER 2006 IECC 504.4. THE FIRST 8 FEET OF PIPING IN NONCIRCULATING SYSTEMS SERVED BY EQUIPMENT WITHOUT INTEGRAL HEAT TRAPS SHALL BE INSULATED WITH 0.5 INCH OF MATERIAL PER 2006 IECC 504.5.

- WATER SUPPLY**
1. WATER HEATER LINES TO BE TYPE L COPPER.
 2. WATER PIPING TO BE SUPPORTED AT 4' O.C.
 3. WATER TEMPERATURE FACTORY SET AT 120 DEG FAR. IF TANK TYPE CONTROLS LOCATED BEHIND COVER PANEL, OUTLET TEMPERATURES LIMITED TO 110 DEG FAR. EQUIPMENT CONTROLS ARE SUCH TO ALLOW A 90 DEG FAR SETPOINT.
 4. A SHUT OFF VALVE SHALL BE REQUIRED FOR EACH FIXTURE.
 5. WATER HAMMER ARRESTORS PROVIDED OR IF AIR CHAMBERS TO BE MINIMUM OF 15" LONG AND NOT LESS THAN THE DIAMETER OF PIPE SERVED.
 6. TANK TYPE WATER HEATER EQUIPPED WITH BRAIN COCK.
 7. ELECTRIC UNION TO BE USED AT CONNECTIONS OF WATER LINES TO WATER HEATER.
 8. COLD WATER INLET TO BE PROVIDED WITH A SHUT OFF VALVE ABOVE FLOOR AT THE WATER HEATER.
 9. IF TANK TYPE, TAP VALVE, 250 DEG FAR, 125 PSI, WITH A 3/4" DISCHARGE TO THE EXTERIOR VIA A 4" AIR GAP.
 10. FULL SIZE SHUT OFF VALVE TO BE PROVIDED.
 11. 1/2" WATER SUPPLY SHALL SUPPLY ONLY ONE FIXTURE.
 12. IF TANK WATER HEATER IS UTILIZED, PROVIDE WATER HEATER PAN PER BUILDING CODE.
 13. WATER TANK TO HAVE A 600 GALLON CAPACITY WITH INTEGRAL HEAT TRAP.

- DVV**
1. DVV MATERIAL TO BE SCHEDULE 40 PVC.
 2. ALL PIPES TO BE SECURED AT 4' O.C.
 3. ALL CLEAN OUTS SHALL BE ACCESSIBLE. CLEAN OUTS TO BE PROVIDED AT THE BASE OF ALL WASTE AND SOIL STACKS AND PLACED SO THAT ALL HORIZONTAL PIPING CAN BE REACHED WITH A CLEAN OUT TOOL WITHOUT PASSING MORE THAN 45 DEGREE TURNS.
 4. 1/4" PER 1' SLOPE PROVIDED ON ALL HORIZONTAL BRANCHES.
 5. VENTS SHALL BE 3" DIA. 18" ABOVE AND BELOW ROOF AND SHALL NOT BE LOCATED WITHIN 10' OF OTHER VENT OPENINGS.
 6. ALL VERTICAL TO HORIZONTAL OR HORIZONTAL TO HORIZONTAL CHANGES OF DIRECTION SHALL BE THROUGH A LONG TURN TEE-WYE OR COMBINATION WYE AND 1/8" BEND.
 7. ALL HORIZONTAL TO VERTICAL CHANGES OF DIRECTION SHALL BE THROUGH A SANITARY TEE OR IF AT THE SAME LEVEL IN VERTICAL STACK THROUGH AN APPROVED DOUBLE FIXTURE FITTING.



L - LAVATORY - 1-1/2" P-TRAP
URINAL - 2" P-TRAP
FD - FLOOR DRAIN - 2" P-TRAP

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INDUSTRIALIZED BUILDING ACT

ALL DVV LINES ARE STUBBED THRU FLOOR. ALL INTERCONNECTIONS (MANIFOLDING) BETWEEN MODULES ARE AT SITE BY OTHERS

F.D.
PYRAMID 1, INC.
JUL 0 1 2009

PROFESSIONAL STAMP



PLUMBING SCHEMATIC

SOUTHERN MODULAR INDUSTRIES

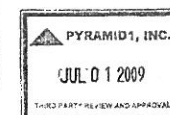
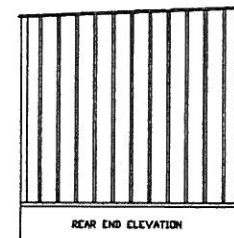
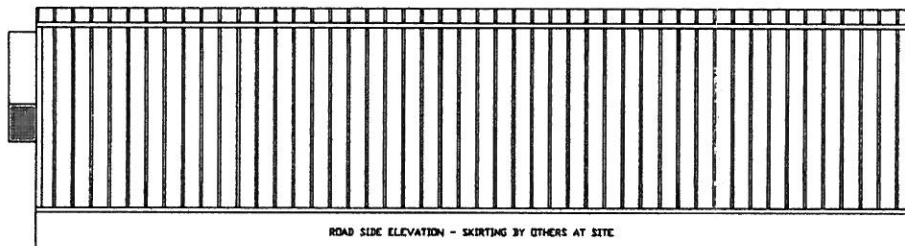
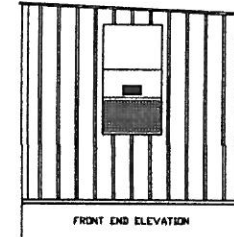
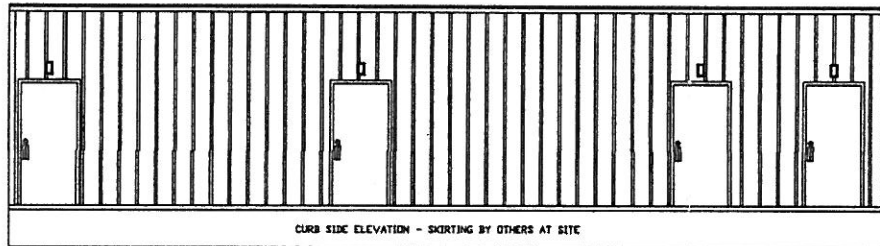


2701 Magnet Street
Houston, TX 77054

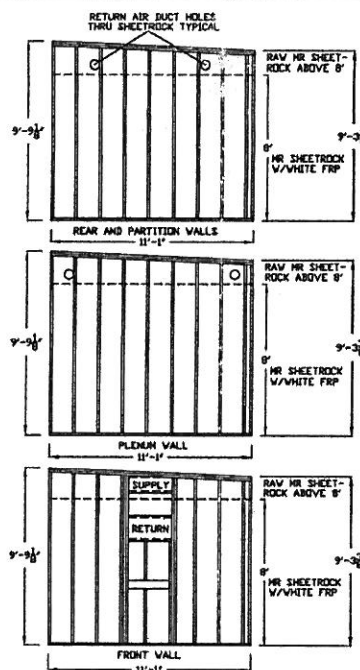
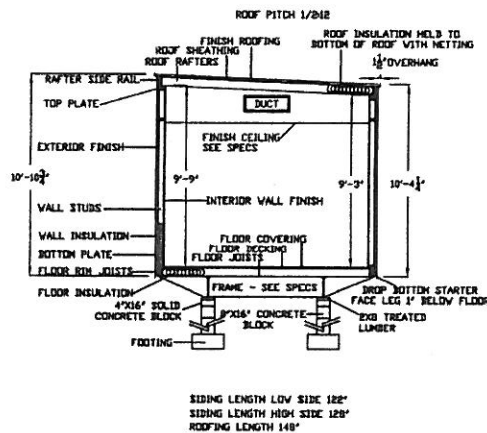
TITLE: RESTROOM
12X52 (11'-9" X 48'-0" BOX)
SCALE: 1/4"=1'-0" DATE: 6/05/09 PROJ. # XXXX01
DRAWN BY: RB PAGE 40F6 DWG. # SM09041-04

RST#9153

06-09-09



HEADER SCHEDULE	
UP TO 2" X 4" STUDS	
2" X 4" UP TO 2" X 4" STUDS	
2" X 4" UP TO 2" X 4" STUDS	
2" X 4" UP TO 2" X 4" STUDS	
2" X 4" UP TO 2" X 4" STUDS	



FASTENING SCHEDULE		
DESCRIPTION	FASTENER	LOCATION
JOIST TO WALL	2-10d	END NAIL
SIDE PLATE TO JOIST OR BLOCKING	10d 8" W/ D.C.	TYPICAL, FACE NAIL
JOIST TO JOIST	2-10d	END NAIL
STUD TO SIDE PLATE	2-10d 8" W/ D.C.	FACE NAIL
JOIST TO STUD	2-10d 8" W/ D.C.	FACE NAIL
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PROFESSIONAL STAMP

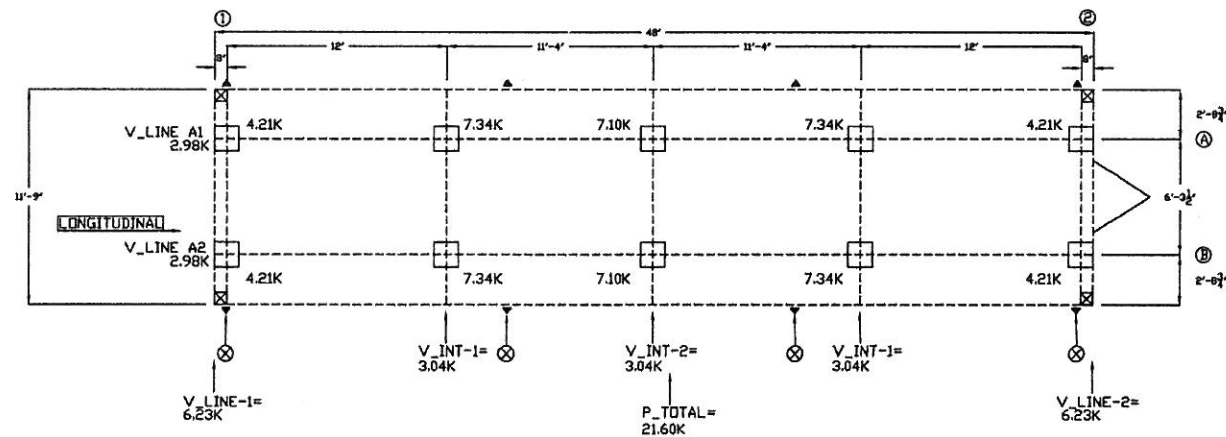
RST#9153 06-09-09

CROSS SECTION-ELEVATIONS
FASTENING SCHEDULE

SOUTHERN MODULAR INDUSTRIES

2701 Magnet Street
Houston, TX 77054

TITLE: RESTROOM
12X52 (11'-9\"/>



LEGEND

⊗ TYPICAL OVER ROOF TIE DOWN STRAP

PROVIDE OVER-ROOF STRAP (1 1/2"x16GA., Fy=33ksi) @ 11'-4" O.C. MAX ALONG THE LONGITUDINAL DIRECTION. (4) STRAPS TOTAL AND CONNECTED TO FOUNDATION TIEDOWN

NOTES:

1. SHADED PIERS (IF SHOWN) REQUIRE ADDITIONAL BLOCKING TO BOTTOM OF FLOOR JOISTS
2. SOUTHERN MODULAR INDUSTRIES, LP ASSUMES NO RESPONSIBILITY FOR ACTUAL FOUNDATION DESIGN AND/OR CONSTRUCTION.
3. CRAWL SPACE AREA TO BE VENTILATED AT 1 S.F. PER EACH 150 S.F. OF CRAWL SPACE AREA.
4. THIS IS A SUGGESTED PLAN ONLY, FOUNDATION TO BE DESIGNED BY A PROFESSIONAL ENGINEER PER LOCAL SOIL AND CLIMATIC CONDITIONS.
5. PROVIDE POSITIVE UNDER DRAINAGE MIN. 4" PEA GRAVEL AND 6 MIL POLYETHYLENE.
6. PROVIDE MINIMUM 22" X 24" ACCESS TO CRAWL SPACE AREA.
7. MINIMUM FOOTING DEPTH DETERMINED BY LOCAL SITE CLIMATIC REQUIREMENTS.
8. PIERS IN AXLE AREA MAY REQUIRE REMOVAL OF FRAME RUNNING GEAR.
9. KIP LOADS BASED ON MINIMUM 3,000# LOAD BEARING SOIL.



	SUGGESTED BLOCKING PLAN	
	SOUTHERN MODULAR INDUSTRIES	
	2701 Magnet Street Houston, TX 77054	
	TITLE: RESTROOM	
SCALE: 1/4"=1'-0"	DATE: 6/05/09	PROJ # XXXX.01
DRAWN BY: RB	PAGE 6 OF 6	DWG. # SM09041-06

RST#9153

06-09-09

SOUTHERN MODULAR INDUSTRIES

24X36 RESTROOM
23'-6" X 32'-0" ACTUAL SIZE
752 SQUARE FEET
OCCUPANT LOAD: 18
BUILDING LOCATION: LA - TX - OK
SHIPPING HEIGHT = 13'-9"

INDEX OF DRAWINGS		
PAGE	TITLE	DWG DATE
1/6	COVER-SPECIFICATIONS	1/22/09
2/6	BUILDING FLOOR PLAN	1/22/09
3/6	ELECTRICAL PLAN	1/22/09
4/6	MECHANICAL - PLUMBING SCHEMATICS	1/22/09
5/6	CROSS SECTION - ELEVATIONS - FASTENING - DETAILS	1/22/09
6/6	SUGGESTED BLOCKING PLAN	1/22/09

FRAME	
I-BEAM	M12 X 11.8 JR I-BEAM ASTM A-329 STEEL
CROSSMEMBER	48" D.C. ASTM A-529 FORMED STEEL - 75-1/2"
OUTRIGGER	48" D.C. ASTM A-529 FORMED STEEL - 31-3/4"
HITCH	DEMOUNTABLE WITH 2-5/16" COUPLER & ELEVATING JACK
AXLES	TRIPLE 6000H (2 BRAKE - 1 IDLER/MODULE) - 75-1/2" S.C.
TIRES	800 X 14.5 X 10 PLY
PAINT	MINIMUM 3 MIL BLACK ASPHALT
FLOOR	
BOTTOM BOARD	W/DOEN REINFORCED PLASTIC
INSULATION	R-19 UNFACED FIBERGLASS
JOIST	2X6 #2 SYP @ 16" OC TRANSVERSE
DECKING	SINGLE 23/32" T&G PLYWOOD STURDIFLOOR RATED 24" D.C. W/100 6" E.N., 6" E.N., 12" F.N.
COVERING	1/8" VINYL COMPOSITION TILE - SHI STANDARD 4" VINYL COVE BASE - SHI STANDARD
EXTERIOR WALLS	
STUDS	2X4 #2 SYP OR EQUAL @ 16" D.C.
(NOTE: THE STUDS ARE DOUBLED @ 16" OC FIRST 5' AT FRONT AND BACK CORNER)	
BOTTOM PLATE	SINGLE 2X4 #2 SYP
TOP PLATE	DOUBLE 2X4 #2 SYP
WALL HEIGHT	8'-0" NOMINAL
WALL COVERING	1/2" VINYL COVERED GYPSUM - SHI STANDARD
INSULATION	R-13 KRAFT FACED FIBERGLASS
SHEATHING	7/16" OSB RATED 24" PER NER-124 & FULL HOUSEWRAP SEE SHEARWALL TYPE PAGE 2
SIDING	26 GAUGE HI RIB STEEL
SIDING COLOR	TBD
TRIM	MATCHING 26 GAUGE STEEL
TRIM COLOR	TBD
SKIRTING	OPTIONAL SHIP LOOSE IN SHEETS
INTERIOR WALLS	
STUDS	2X4 (2X6) #2 SYP @ 16" D.C.
BOTTOM PLATE	SINGLE #2 2X4 (2X6) SYP
TOP PLATE	DOUBLE #2 2X4 (2X6) SYP
WALL HEIGHT	8'-6" FINISH
WALL COVERING	WHITE FRP OVER 1/2" MR SHEETROCK
INSULATION	R-11 UNFACED FIBERGLASS
ROOF	
RAFTERS	2X8 #2 SYP RAFTERS @ 24" D.C. TYPICAL. 20# ROOF LOAD
	2X8 OUTSIDE RAIL & 2X4 #2 SYP LEDGER PER DWG DETAILS
CEILING PANEL	2X4 WHITE T-GRID SYSTEM - FINISH HEIGHT 7'-10"
INSULATION	R-30 UNFACED FIBERGLASS W/NETTING SUPPORT
SHEATHING	15/32" CDX PLYWOOD (15H FELT) W/8d 6" E.N., 12" F.N.
(NOTE: FASTENERS TO BE 3" E.N., 6" F.N. FIRST 5' AT FRONT AND BACK CORNER)	
ROOFING	26 GAUGE HI RIB GALVALUME - 1-1/2" OVERHANG ON 32" SIDES
EXTERIOR DOORS	
	(6) 3/0' X 6/8' HM 20 GAUGE STEEL WITH 16 GAUGE FRAME, FLUSH, CLOSURE, DEAD BOLT, PUSH PULL PLATES, ADA THRESHOLD AND WEATHER STRIP
ELECTRICAL	
SERVICE	120/240 VOLT SINGLE PHASE, 3 WIRE, 60 HZ. WITH GROUND
LOAD CENTER	(1) 200 AMP MAIN BREAKER NEMA 3 EXTERIOR TYPE
ENTRANCE	2" CONDUIT
RACEWAY	MINIMUM #12 AWG, COPPER W/GROUND IN EMT AND/OR MC CABLE
LIGHTS	(6) 4' TWD TUBE 18 TROFFER FLUORESCENT TYPE (2) 4' TWD TUBE 18 TROFFER FLUORESCENT TYPE (4) WP EXTERIOR VANDAL RESISTANT WITH 30 WATT FLUORESCENT BULB (2) SINGLE FACE EXIT LIGHT WITH BATTERY BACKUP
RECEPTACLES	(8) 120 VOLT 20 AMP WHITE GFCI TYPE (1) 120 VOLT 20 AMP WHITE GFCI TYPE - EXTERIOR WP MOUNT (8) 120 VOLT 15 AMP WHITE TOGGLE TYPE
SWITCHES	(4) 120 VOLT ADA COMPLIANT SURFACE MOUNT HAND DRYER
MISC	(3) 1-1/2" X 12" PVC CAPPED PIPING PER PRINT
PLUMBING	
SUPPLY LINES	CPVC
WASTE LINES	PVC DWV-SCH 40 DRAIN-WASTE-VENT LINES (CONCEALED) STUBBED THRU FLOOR
WATER HEATER	(1) 120 VOLT 20 GALLON TANK TYPE WITH T&P VALVE AND METAL DRAIN PAN
WATER CLOSET	(5) WHITE CHINA TANK TYPE WITH ADA ELONGATED BOWL & OPEN FRONT SEAT (9) WHITE CHINA TANK TYPE WITH ELONGATED BOWL & OPEN FRONT SEAT
URINAL	(4) WHITE CHINA WALL HUNG WITH FLUSH VALVE
LAVATORY	(10) WHITE CHINA 20X17 WALL HUNG WITH LEVER FAUCET (1) PLASTIC MOP SINK WITH GOOSENECK LEVER FAUCET (5) SET OF GRAB BARS - (10) 18" X 36" MIRROR WITH CLIPS
ACCESSORIES	LAVATORIES EQUIPPED WITH ADA INSULATED PIPE WRAPS SHUT OFF VALVES AT FIXTURES
MISC	(7) FLOOR DRAIN WITH AUTOMATIC TRAP PRIMER (14) TOILET PAPER HOLDERS STEEL MODESTY PARTITIONS AND URINAL SCREENS
H.V.A.C.	
HEATING	(2) 10 KW, 240 VOLT SINGLE PHASE HEAT STRIP
COOLING UNIT	(2) 2 TON 24,000 BTU 240 VOLT SINGLE PHASE AIR CONDITIONERS
DUCT	FOIL FACED RIGID FIBERGLASS MAIN TRUNK LINE 6" FOIL FACED INSULATED TAKE OFFS
DIFFUSERS	24" PERFORATED TYPE
RETURN AIR	VIA WALL JUMPERS TO RETURN AIR GRILLE AT FRONT OF HVAC UNIT
THERMOSTAT	(2) WALL MOUNT PROGRAMMABLE (5/2)
EXHAUST FANS	(2) 75 CFM CEILING MOUNT EXHAUST FAN-LIGHT COMBO DUCTED WITH ROOF CAP (2) 350 CFM CEILING MOUNT EXHAUST FAN DUCTED WITH ROOF CAP

BUILDING CODE NOTES:

- 15/32" CDX 24" RATED SHEATHING SHALL BE SUFFICIENT FOR STRUCTURAL SHEER WALL REQUIREMENTS AT FASTENING SCHEDULE.
- BLOCKING AND ANCHORING BELOW FRAME BY OTHERS.
- DEALER SHALL BE RESPONSIBLE FOR ON SITE BARRIER FREE PROVISIONS, STEPS, RAMPS, PARKING SIGNS, ETC - BUILDING APPROACH (WALK OR RAMP) WITH A MINIMUM WIDTH OF 5' AND A GRADIENT OF NOT LESS THAN 1 FOOT IN 20 FEET.
- ALL LOCKS TO BE UNLOCKABLE FROM THE INTERIOR WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE.
- CORROSION RESISTANCE FLASHING AT TOP AND SIDES OF DOORS, WINDOWS AND AT ROOF PENETRATIONS.
- ALL GLAZING WITHIN 24" OF EXTERIOR PASSAGE DOORS AND INTERIOR PASSAGE DOORS JR WITHIN 18" OF FLOOR TO BE "SAFETY GLAZED" AND SO MARKED.

DATA PLATE IS ATTACHED IN VICINITY OF THE ELECTRICAL PANEL. STATE LABEL (IF APPLICABLE) IS AFFIXED IN VICINITY OF THE ELECTRICAL PANEL.

SPECIAL CONDITIONS/LIMITATIONS:
BUILDING GOOD FOR IECC ZONE 1 THRU 7.
FIRE ALARM SYSTEM IF REQUIRED BY LOCAL TO BE PROVIDED AND INSTALLED BY OTHERS AT SITE PER LOCAL CODE REGULATIONS.
IBC PER SECTION 1609.1.4 EXCEPTION - 7/16" OSB COVER PANELS FOR WINDOWS TO BE SUPPLIED AT SITE BY OTHERS.
BOTTLE WATER COOLER (S) PROVIDED AT SITE BY OTHERS.
MOP SINK PROVIDED AT SITE BY OTHERS.

BUILDING CODE NOTES
THE JOB SPECIFICATIONS SUPERSEDE THE DETAIL SPECIFICATIONS WHERE THERE IS A CONFLICT. BUILDING TO BE LOCATED MINIMUM 20' FROM EXISTING PROPERTY LINE. BUILDINGS ON THE SAME PROPERTY SHALL BE ASSUMED TO HAVE A PROPERTY LINE BETWEEN THEM. THE BUILDING EXTERIOR AND THE FACILITIES WITHIN THE BUILDING SHALL BE IDENTIFIED WITH THE INTERNATIONAL SYMBOL OF ACCESSIBILITY (BY OTHERS).

DESIGN PARAMETERS

OCCUPANCY GROUP B
CONSTRUCTION TYPE VB

DESIGN CRITERIA

ROOF LIVE LOAD: 20 PSF
ROOF DEAD LOAD: 10 PSF
FLOOR LIVE LOAD: 50 PSF
FLOOR DEAD LOAD: 10 PSF
WIND HORIZONTAL: 130 MPH, EXPOSURE 'C' 3sg
SEISMIC ZONE: Ss=0.919g, Si=0.276g
SEISMIC DESIGN CAT D, SITE CLASS D SEISMIC GROUP 3

LOUISIANA CODES

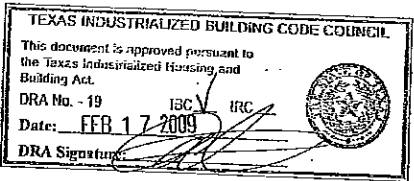
2005 NATIONAL ELECTRICAL CODE
2006 INTERNATIONAL BUILDING CODE (EXCLUDING CHAPTERS 1, 11, 27 AND 29)
2006 INTERNATIONAL MECHANICAL CODE
2000 LOUISIANA STATE PLUMBING CODE
2006 INTERNATIONAL FUEL & GAS CODE
2004 ENERGY CODE ASHRAE 90.1

TEXAS CODES

2008 NATIONAL ELECTRICAL CODE
2006 INTERNATIONAL BUILDING CODE
2006 INTERNATIONAL MECHANICAL CODE
2006 INTERNATIONAL PLUMBING CODE
2006 INTERNATIONAL FUEL & GAS CODE
2006 INTERNATIONAL ENERGY CONSERVATION CODE
1994 TEXAS ACCESSIBILITY STANDARDS

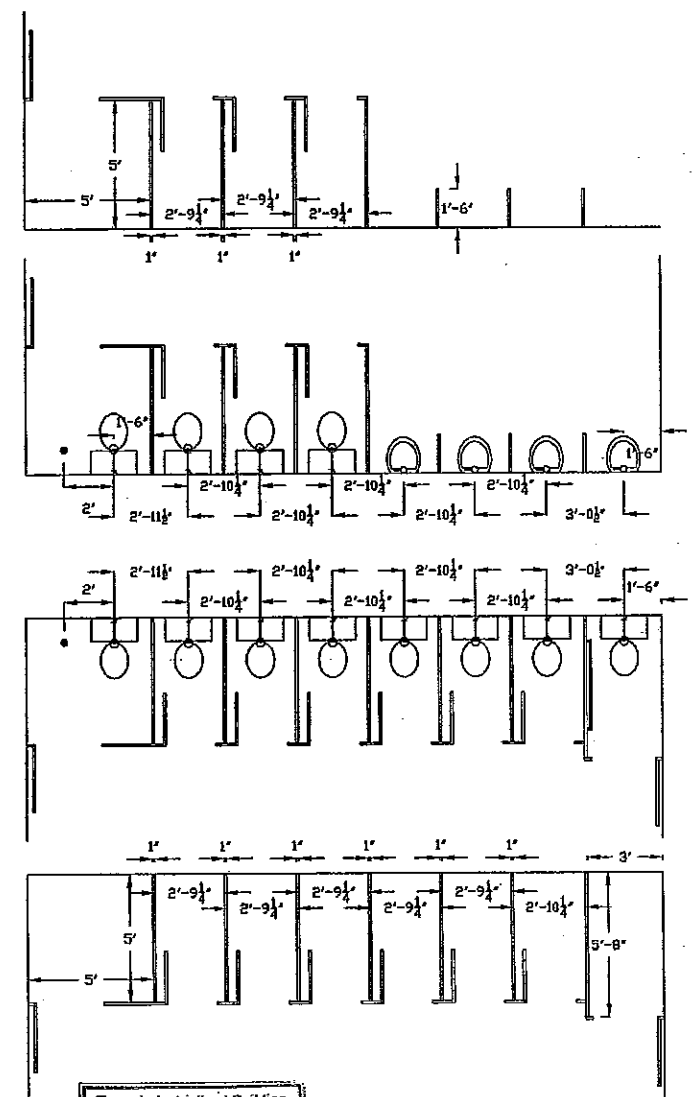
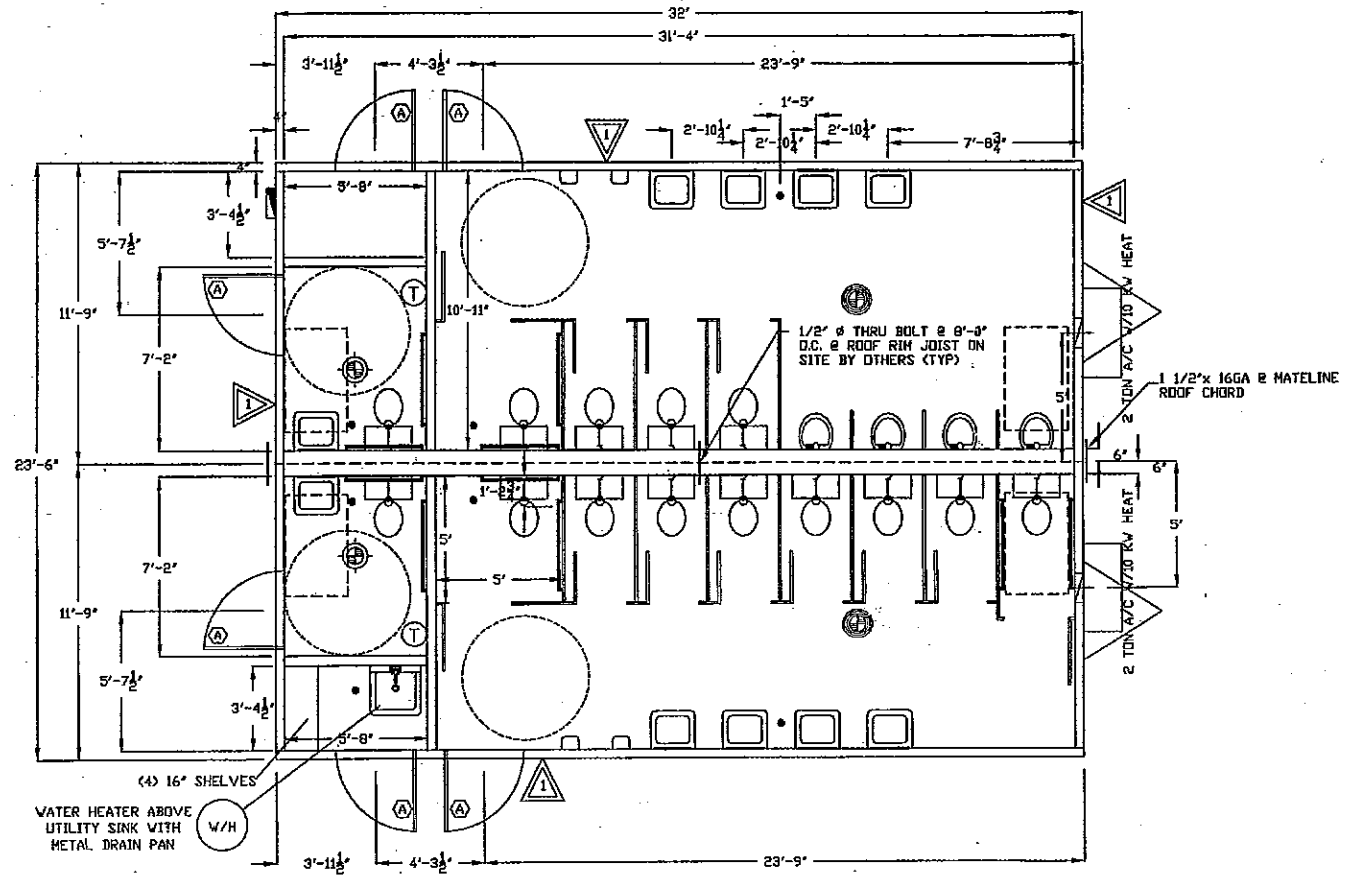
OKLAHOMA CODES

2005 NATIONAL ELECTRICAL CODE
2006 INTERNATIONAL BUILDING CODE
2006 INTERNATIONAL MECHANICAL CODE
2006 INTERNATIONAL PLUMBING CODE
2006 INTERNATIONAL FUEL & GAS CODE
NFPA 101-2000
ADAAG



PROFESSIONAL STAMP		COVER - SPECIFICATIONS	
RST#9036		2701 Magnet Street Houston, TX 77054	
02-16-09		TITLE: M SPACE HOLDINGS 24X36 (23'-6" X 32'-0" BOX) OFFICE	
SCALE: 1/4"=1'-0"		DATE: 1/22/09	PROJ. # XXXX.01.02
DRAWN BY: RB		PAGE 10F6	DWG. # SM09006-01

R0014



Texas Industrialized Building Code Council
IBC/IRC
FEB 17 2009
Approved
PYRAMID1, Inc.
HIDRA-19

SHEARWALL LEGEND

7/16" OSB SHEATHING w/ STUDS @ 16" O.C. MAX NAILING SHALL BE 8d NAILS @ 6" EN, & 12" F.N. ALLOWABLE SHEAR = 260 x 1.4 = 364 PLF PER TABLE 2306.4.1 IBC

SHEARWALL TIE DOWN SCHEDULE	
8 SHEARWALL LINE	NUMBER OF HOLDDOWNS @ EACH END OF EACH SHEARWALL & MODULAR CORNER ¹
LINE 1	(1) x 12GA ²
LINE 2	(1) x 12GA ²
LINE A	(1) x 12GA ²
LINE C	(1) x 12GA ²

¹ 1 1/2"x12"x16GA HOLD DOWN STRAP WITH (3) #12 S.T.S. SCREWS EACH END

² 1 1/2"x12"x12GA HOLD DOWN STRAP WITH (3) #12 S.T.S. SCREWS EACH END

³ END OF SHEARWALLS ARE CONSTITUTED BY ALL DOOR, WINDOW, AND HVAC OPENING KING POSTS.

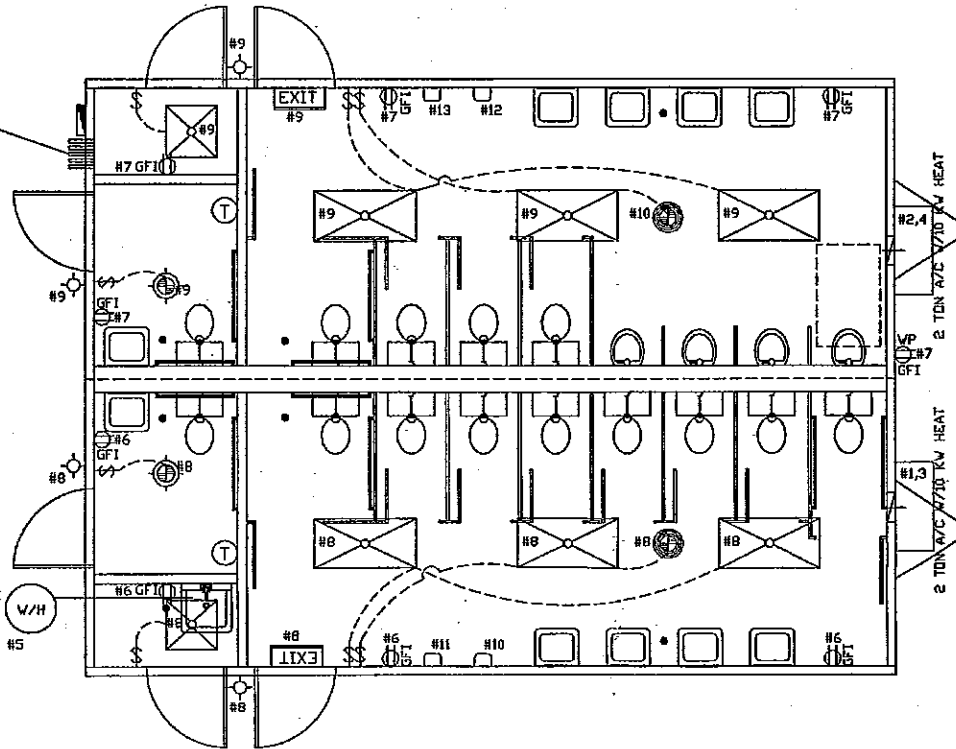
⁴ MODULAR CORNERS INCLUDED OUTSIDE CORNERS AS WELL AS CORNERS EA. SIDE @ MATING LINES.

DOOR & WINDOW SCHEDULE			
SYMBOL	QTY	DESCRIPTION	ROUGH OPENING
(A)	6	3/8" X 6/8" INSULATED 20 GAUGE BLANK WITH 16 GAUGE FRAME, CLOSURE, DEAD BOLT, PUSH/PULL PLATES, WEATHER STRIP & ADA THRESHOLD	38 X 61
(B)			
(C)			
(D)			
(E)	1	20 X 12 WHITE RETURN AIR OPENING AT FRONT OF HVAC UNIT	20 X 12

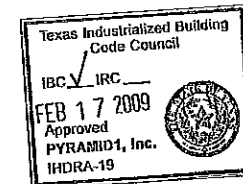
PROFESSIONAL STAMP 		FLOOR PLAN SOUTHERN MODULAR INDUSTRIES 2701 Magnet Street Houston, TX 77054
TITLE: M SPACE HOLDINGS 24X36 (23'-6" X 32'-0" BOX) OFFICE		SCALE: 1/4"=1'-0"
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(5) 1-1/2" X 12" PVC PIPES THRU WALL INTO CEILING CAVITY. CAP PIPES ON BOTH ENDS AND SEAL AROUND SLEEVES.

WATER HEATER ABOVE UTILITY SINK WITH METAL DRAIN PAN



ELECTRICAL CALCS					BREAKER	CALC'D
CIRCUIT#	DEVICE	QTY	WATTS	X'S	SIZE	WATTS
1,3	HVAC	1	10,000	1.25	60A-2P	12,500
2,4	HVAC	1	10,000	1.25	60A-2P	12,500
5	HVH	1	1,500	1.25	20A-1P	1,875
6	RECEPT	4	180	1.00	20A-1P	720
7	RECEPT	5	180	1.00	20A-1P	900
8	LIGHT	3	64	1.25	15A-1P	240
	LIGHT	1	32	1.25	15A-1P	40
	FAN/LITE	1	120	1.25		150
	EXH FAN	1	180	1.25		225
	O/S LITE	2	30	1.25		76
	EXIT	1	15	1.25		19
9	LIGHT	3	64	1.25	15A-1P	240
	LIGHT	1	32	1.25		40
	FAN/LITE	1	120	1.25		150
	EXH FAN	1	180	1.25		225
	O/S LITE	2	30	1.25		76
	EXIT	1	15	1.25		19
10	HD DRYER	1	1,200	1.00	15A-1P	1,200
11	HD DRYER	1	1,200	1.00	15A-1P	1,200
12	HD DRYER	1	1,200	1.00	15A-1P	1,200
13	HD DRYER	1	1,200	1.00	15A-1P	1,200
TOTAL WATTS						34,795
TOTAL AMPS (WATTS/240V)						145.0



SYMBOL	QTY.	DESCRIPTION
	1	200 AMP - 120/240V - SINGLE PHASE - NEMA 3 - ELECTRICAL PANEL
	6	4' 2-TUBE FLUORESCENT T8 TROFFER LIGHT WITH ELECTRONIC BALLAST (48" T8 EB 32 WATT, FIXTURE WATTAGE 64 WATTS)
	2	4' 4-TUBE FLUORESCENT T8 TROFFER LIGHT WITH ELECTRONIC BALLAST (48" T8 EB 32 WATT, FIXTURE WATTAGE 32 WATTS)
	4	30 WATT FLUORESCENT WP EXTERIOR LIGHT ON PHOTO CELL
	2	EXIT LIGHT WITH BATTERY BACKUP
	2	COMBINATION 75 CFM CEILING FAN/LIGHT DUCTED THRU ROOF WITH CAP
	2	350 CFM CEILING EXHAUST DUCTED THRU ROOF WITH CAP
	8	120V 15 AMP WHITE TOGGLE SWITCH
	0	120V 15 AMP WHITE DUPLEX RECEPTACLE GROUNDING TYPE
	8	120V 20 AMP WHITE GFI RECEPTACLE
	1	120V 20 AMP WHITE GFI RECEPTACLE EXTERIOR MOUNT WITH WP COVER
	4	ADA COMPLIANT SURFACE MOUNT HAND DRYER
	2	PROGRAMABLE THERMOSTAT (5/2)

PANEL
120/240V SINGLE PHASE 3-WIRE NEMA 3-R
TO BE MARKED AS APPROVED FOR USE AS
SERVICE EQUIPMENT.

#6 BARE GROUND WIRE FROM GROUNDING LUG
IN PANEL BOX TO GROUNDING BOLT ON FRAME.

MAIN DISTRIBUTION PANEL SUPPLIED
AND INSTALLED AT SITE BY OTHERS.

2" PVC CONDUIT FOR SITE FEEDERS
BY OTHERS - ALL CONNECTIONS
MADE AT SITE BY OTHERS

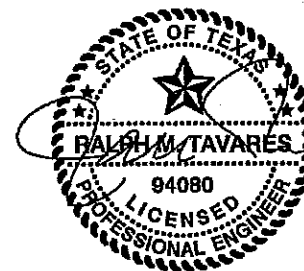
ELECTRICAL PANEL
RISER DIAGRAM

COPPER WIRE SIZE	
CIRCUIT SIZE	WIRE SIZE (W/GRD)
15 AMP	#14
20 AMP	#12
30 AMP	#10
40 AMP	#8
60 AMP	#6
90 AMP	#2

THE CIRCUIT NUMBERS SHOWN DO NOT NECESSARILY DENOTE
THE ACTUAL CIRCUIT NUMBERS BUT ARE INTENDED TO DESIGNATE
CIRCUITS.

ENT CONDUIT REQUIREMENTS
ALL CONDUCTORS TO BE MINIMUM 90 DEGREE C RATED.
MAXIMUM OF (4) FOUR 15 AMP CIRCUITS PER 1/2" ENT CONDUIT.
MAXIMUM OF (3) THREE 20 AMP CIRCUITS PER 1/2" ENT CONDUIT.
ALL OTHER AMPERAGE CIRCUITS TO BE RUN SEPARATELY IN
MINIMUM 3/4" ENT CONDUIT.

PROFESSIONAL STAMP



RST#9036

02-16-09

ELECTRICAL PLAN

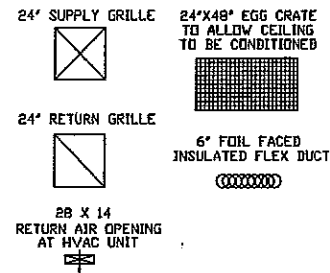
SOUTHERN MODULAR INDUSTRIES



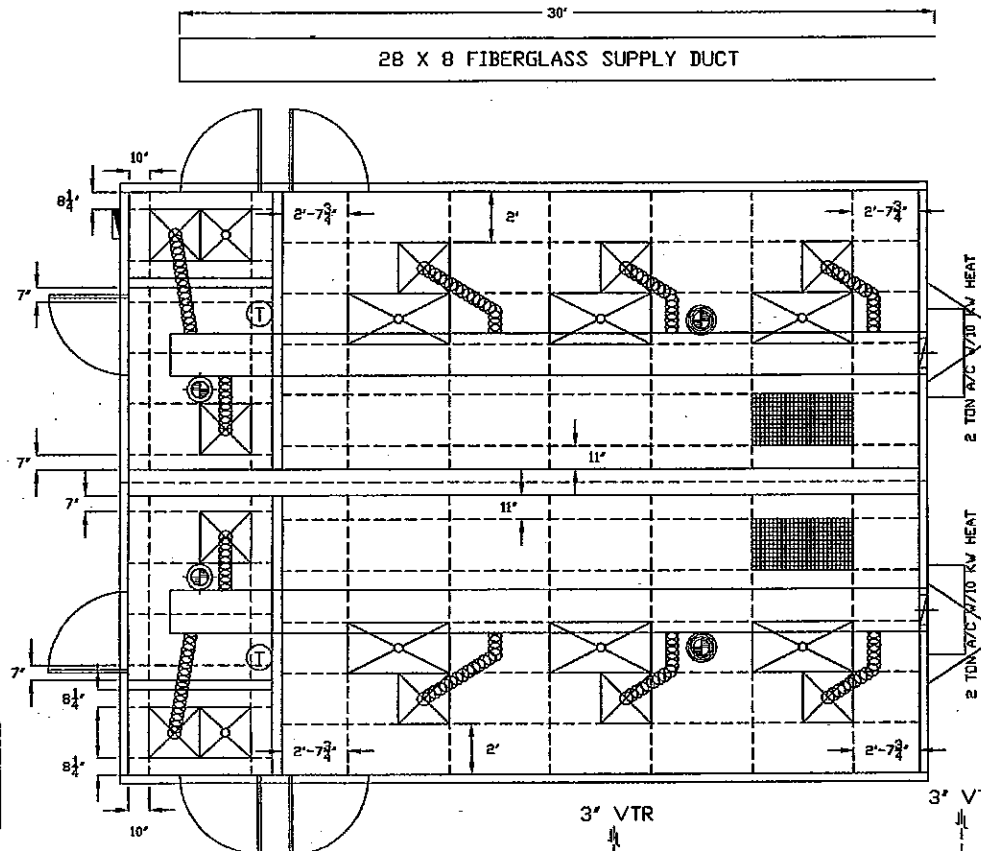
2701 Magnet Street
Houston, TX 77054

TITLE: M SPACE HOLDINGS
24X36 (23'-6" X 32'-0" BOX) OFFICE

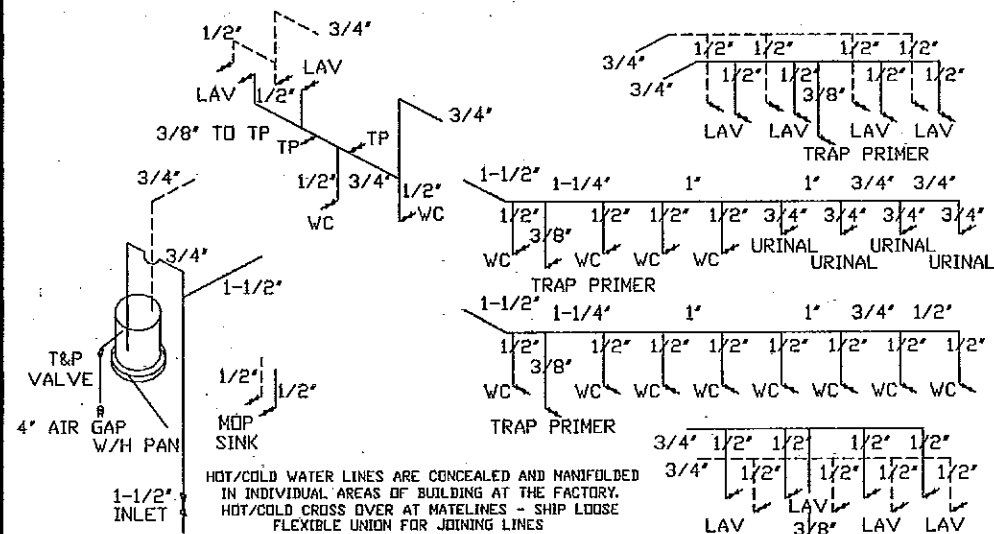
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HVAC UNITS TO PROVIDE MINIMUM OF 270 CFM OUTSIDE AIR 10.0 SEER

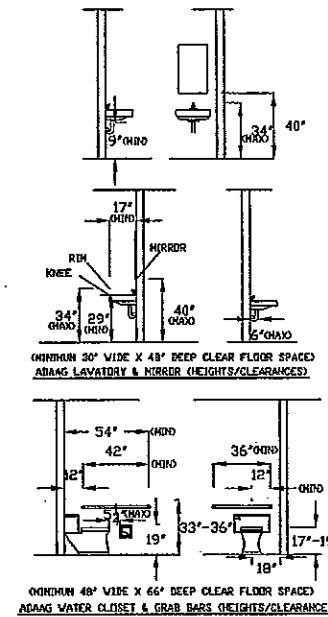


WATER HEATER EQUIPPED WITH HEAT TRAP ON INLET & SUPPLY LINES PER 2006 IECC 504.4. THE FIRST 8 FEET OF PIPING IN NONCIRCULATING SYSTEMS SERVED BY EQUIPMENT WITHOUT INTEGRAL HEAT TRAPS SHALL BE INSULATED WITH 0.5 INCH OF MATERIAL PER 2006 IECC 504.5.



- WATER SUPPLY**
1. WATER HEATER LINES TO BE TYPE L COPPER.
 2. WATER PIPING TO BE SUPPORTED AT 4' O.C.
 3. WATER TEMPERATURE FACTORY SET AT 120 DEG FAR. IF TANK TYPE CONTROLS LOCATED BEHIND COVER PANEL, OUTLET TEMPERATURES LIMITED TO 110 DEG FAR. EQUIPMENT CONTROLS ARE SUCH TO ALLOW A 90 DEG FAR SETPOINT.
 4. A SHUT OFF VALVE SHALL BE REQUIRED FOR EACH FIXTURE.
 5. WATER HAMMER ARRESTORS PROVIDED OR IF AIR CHAMBERS TO BE MINIMUM OF 15" LONG AND NOT LESS THAN THE DIAMETER OF PIPE SERVED.
 6. TANK TYPE WATER HEATER EQUIPPED WITH DRAIN COCK.
 7. DIELECTRIC UNION TO BE USED AT CONNECTIONS OF WATER LINES TO WATER HEATER.
 8. COLD WATER INLET TO BE PROVIDED WITH A SHUT OFF VALVE ABOVE FLOOR AT THE WATER HEATER.
 9. IF TANK TYPE, T&P VALVE, 210 DEG FAR, 125 PSI, WITH A 3/4" DISCHARGE TO THE EXTERIOR VIA A 4" AIR GAP.
 10. FULL SIZED SHUT OFF VALVE TO BE PROVIDED.
 11. 1/2" WATER SUPPLY SHALL SUPPLY ONLY ONE FIXTURE.
 12. IF TANK WATER HEATER IS UTILIZED, PROVIDE WATER HEATER PAN PER BUILDING CODE.
 13. WATER TANK TO HAVE A <20 GALLON CAPACITY WITH INTEGRAL HEAT TRAP.

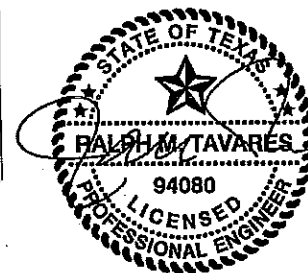
- DVV**
1. DVV MATERIAL TO BE SCHEDULE 40 PVC.
 2. ALL PIPES TO BE SECURED AT 4' O.C.
 3. ALL CLEAN OUTS SHALL BE ACCESSABLE. CLEAN OUTS TO BE PROVIDED AT THE BASE OF ALL WASTE AND SOIL STACKS AND PLACED SO THAT ALL HORIZONTAL PIPING CAN BE REACHED WITH A CLEAN OUT TOOL WITHOUT PASSING MORE THAN 45 DEGREE TURNS.
 4. 1/2" PER 1' SLOPE PROVIDED IN ALL HORIZONTAL BRANCHES.
 5. VENTS SHALL BE 3" DIA, 12" ABOVE AND BELOW ROOF AND SHALL NOT BE LOCATED WITHIN 10' OF OTHER VENT OPENINGS.
 6. ALL VERTICAL TO HORIZONTAL OR HORIZONTAL TO HORIZONTAL CHANGES OF DIRECTION SHALL BE THROUGH A LONG TURN TEE-WYE OR COMINATION WYE AND 1/8 BEND.
 7. ALL HORIZONTAL TO VERTICAL CHANGES OF DIRECTION SHALL BE THROUGH A SANITARY TEE OR IF AT THE SAME LEVEL IN VERTICAL STACK THROUGH AN APPROVED DOUBLE FIXTURE FITTING.



L - LAVATORY - 1-1/2" P-TRAP
MS - MOP SINK - 2" P-TRAP
URINAL - 2" P-TRAP
FD - FLOOR DRAIN - 2" P-TRAP

ALL DWV LINES ARE STUBBED THRU FLOOR - ALL INTERCONNECTIONS (MANIFOLDING) BETWEEN MODULES ARE AT SITE BY OTHERS

PROFESSIONAL STAMP



RST#9036

02-16-09

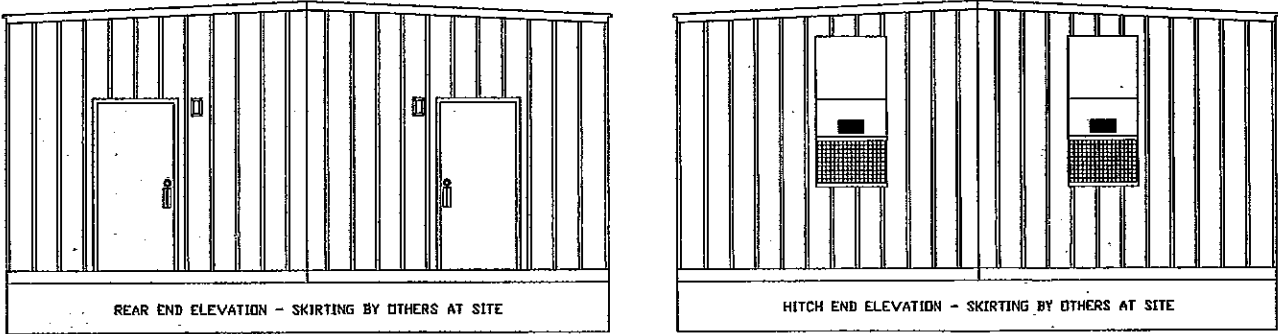
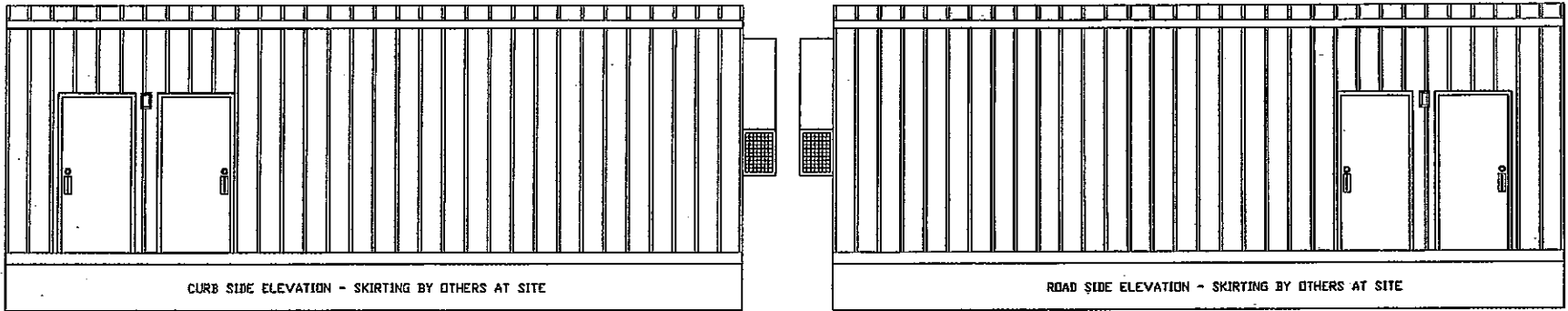
REFLECTIVE CEILING - HVAC PLUMBING SCHEMATIC

SOUTHERN MODULAR INDUSTRIES



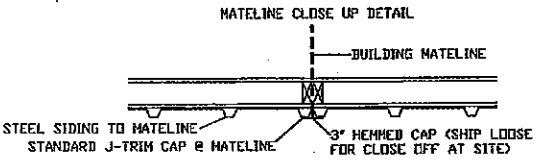
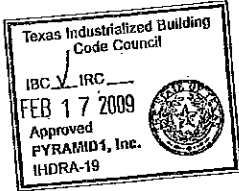
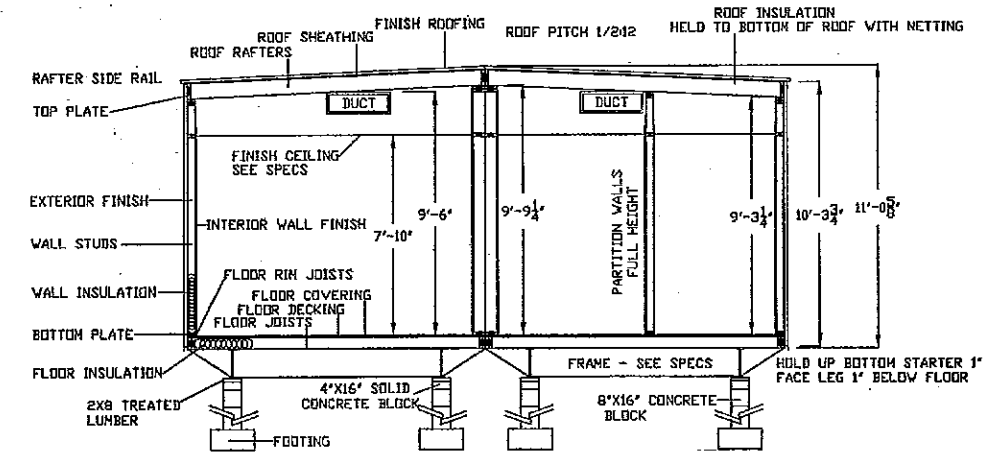
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HEADER SCHEDULE	
UP TO 4' OPENING	
2-2X4 #2 SPF-FLAT HEADER	
1-2X4 #2 SPF JACK STUD	
2-2X4 #2 SPF KING STUDS	

FASTENING SCHEDULE		
DESCRIPTION	FASTENER	LOCATION
JOIST TO SILL	3-16d	END NAIL
SOLE PLATE TO JOIST OR BLOCKING	16d @ 16" O.C.	TYPICAL FACE NAIL
TOP PLATE TO STUD	2-16d	END NAIL
STUD TO SOLE PLATE	4-8d (2-A6d)	TOE NAIL (END NAIL)
DOUBLE STUDS	16d @ 24" O.C.	FACE NAIL
DOUBLE TOP PLATES	16d @ 24" O.C. (8-16d)	FACE NAIL (LAP SPLICES)
BLOCKING BETWEEN JOISTS/RAFTER/STUDS	3-8d	TOE NAIL
RIM JOIST TO TOP PLATE	8d @ 6" O.C.	TOE NAIL
TOP PLATES, LAPS, INTERSECTIONS	2-16d	FACE NAIL
RAFTERS TO PLATE	2-8d CLIP	FACE NAIL
7/16" OSB SHEATH PANEL TO STUD/6d CORR RES	6" O.C. FIELD (3" O.C. EDGE)	FACE NAIL
AND 5/16" HARDI PANEL SIDING		
ROOF DECKING TO RAFTERS	SEE SHEET 1	
FLOOR DECKING TO JOIST	SEE SHEET 1	
BOTTOM BOARD TO RIM JOIST	1"x1/2" WIDE CROWN #12" O.C.	FACE NAIL
GYPSON TO STUDS	PER GA-216	PER GA-216
GYPSON TO RAFTERS	PER GA-216	PER GA-216
RAFTER CHORD SPLICE (6" CMSTC16@SPLICES)	16d @ 3" O.C.	PER MANUFACTURER
STUD TO ROOF/FLOOR SILL	SIMPSON HESa CLIP W/9-8d OR OVERLAP SMART PANEL 4"	TO PLATES & STUDS
OUTRIGGERS TO JOISTS	(2) 3/8"x3" LAG w/ WASHER	FACE SCREW
FLOOR SILL TO FRAME	1-3/8"x10" CARRIAGE BOLT	1 PER CORNER
WALL TO WALL	16d @ 24" O.C.	FACE NAIL



PROFESSIONAL STAMP

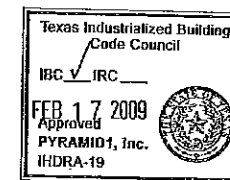
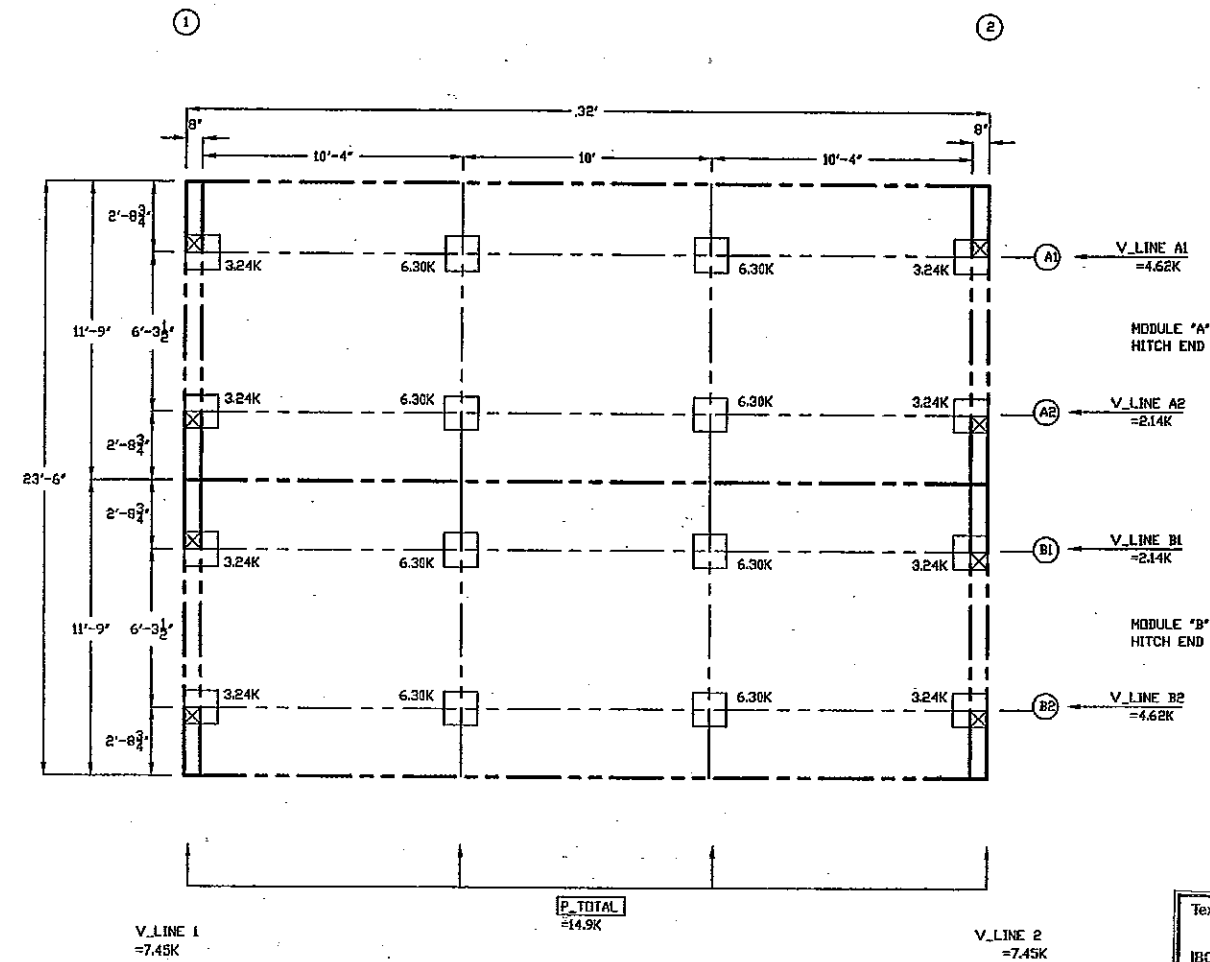
RST#9036 02-16-09

CROSS SECTION-ELEVATIONS
FASTENING SCHEDULE

SOUTHERN MODULAR INDUSTRIES

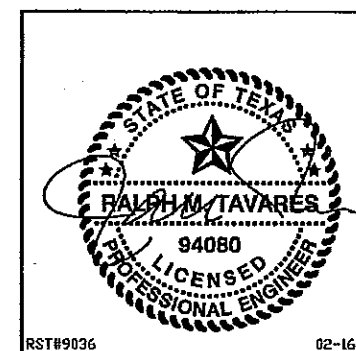
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NOTES:

1. SHADED PIERS (IF SHOWN) REQUIRE ADDITIONAL BLOCKING TO BOTTOM OF FLOOR JOISTS
2. SOUTHERN MODULAR INDUSTRIES, LP ASSUMES NO RESPONSIBILITY FOR ACTUAL FOUNDATION DESIGN AND/OR CONSTRUCTION.
3. CRAWL SPACE AREA TO BE VENTILATED AT 1 S.F. PER EACH 150 S.F. OF CRAWL SPACE AREA.
4. THIS IS A SUGGESTED PLAN ONLY, FOUNDATION TO BE DESIGNED BY A PROFESSIONAL ENGINEER PER LOCAL SOIL AND CLIMATIC CONDITIONS.
5. PROVIDE POSITIVE UNDER DRAINAGE MIN. 4" PEA GRAVEL AND 6 MIL POLYETHYLENE.
6. PROVIDE MINIMUM 22' X 24' ACCESS TO CRAWL SPACE AREA.
7. MINIMUM FOOTING DEPTH DETERMINED BY LOCAL SITE CLIMATIC REQUIREMENTS.
8. PIERS IN AXLE AREA MAY REQUIRE REMOVAL OF FRAME RUNNING GEAR.
9. KIP LOADS BASED ON MINIMUM 3,000# LOAD BEARING SOIL.



SUGGESTED BLOCKING PLAN

SOUTHERN MODULAR INDUSTRIES



2701 Magnet Street
Houston, TX 77054

TITLE: M SPACE HOLDINGS
24X36 (23'-6" X 32'-0" BOX) OFFICE

SCALE: 1/4"=1'-0" DATE: 1/22/09 PROJ # XXXX.01.02

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SOUTHERN MODULAR INDUSTRIES

24X36 RESTROOM
23'-6" X 32'-0" ACTUAL SIZE

752 SQUARE FEET

OCCUPANT LOAD: 18

BUILDING LOCATION: LA - TX - OK

SHIPPING HEIGHT = 13'-9"

INDEX OF DRAWINGS

PAGE	TITLE	DWG DATE
1/6	COVER-SPECIFICATIONS	1/22/09
2/6	BUILDING FLOOR PLAN	1/22/09
3/6	ELECTRICAL PLAN	1/22/09
4/6	MECHANICAL - PLUMBING SCHEMATICS	1/22/09
5/6	CROSS SECTION - ELEVATIONS - FASTENING - DETAILS	1/22/09
6/6	SUGGESTED BLOCKING PLAN	1/22/09

FRAME	
I-BEAM:	M12 X 11.8 JR I-BEAM ASTM A-529 STEEL
CROSSMEMBER:	48" O.C. ASTM A-529 FORMED STEEL - 75-1/2"
OUTRIGGER:	48" O.C. ASTM A-529 FORMED STEEL - 31-3/4"
HITCH:	DEMOUNTABLE WITH 2-5/16" COUPLER & ELEVATING JACK
AXLES:	TRIPLE 6000# (2 BRAKE - 1 IDLER/MODULE) - 75-1/2" S.C.
TIRES:	900 X 14.5 X 10 PLY
PAINT:	MINIMUM 3 MIL BLACK ASPHALT
FLOOR:	
BOTTOM BOARD:	WOVEN REINFORCED PLASTIC
INSULATION:	R-19 UNFACED FIBERGLASS
JOIST:	2X6 #2 SYP @ 16" O.C. TRANSVERSE
DECKING:	SINGLE 23/32" T&G PLYWOOD STURDIFLOOR RATED 24" O.C. W/10d 6" BN, 6" EN, 12" FN
COVERING:	1/8" VINYL COMPOSITION TILE - SMI STANDARD 4" VINYL COVE BASE - SMI STANDARD

EXTERIOR WALLS	
STUDS:	2X4 #2 SYP OR EQUAL @ 16" O.C.
(NOTE: THE STUDS ARE DOUBLED @ 16" O.C. FIRST 5' AT FRONT AND BACK CORNER)	
BOTTOM PLATE:	SINGLE 2X4 #2 SYP
TOP PLATE:	DOUBLE 2X4 #2 SYP
WALL HEIGHT:	8'-0" NOMINAL
WALL COVERING:	1/2" VINYL COVERED GYPSUM - SMI STANDARD
INSULATION:	R-13 KRAFT FACED FIBERGLASS
SHEATHING:	7/16" OSB RATED 24" PER NER-124 & FULL HOUSEWRAP SEE SHEARWALL TYPE PAGE 2
SIDING:	26 GAUGE HI RIB STEEL
SIDING COLOR:	TBD
TRIM:	MATCHING 26 GAUGE STEEL
TRIM COLOR:	TBD
SKIRTING:	OPTIONAL SHIP LOOSE IN SHEETS

INTERIOR WALLS	
STUDS:	2X4 (2X6) #2 SYP @ 16" O.C.
BOTTOM PLATE:	SINGLE #2 2X4 (2X6) SYP
TOP PLATE:	DOUBLE #2 2X4 (2X6) SYP
WALL HEIGHT:	8'-6" FINISH
WALL COVERING:	WHITE FRP OVER 1/2" HR SHEETROCK
INSULATION:	R-11 UNFACED FIBERGLASS
ROOF	
RAFTERS:	2X8 #2 SYP RAFTERS @ 24" O.C. TYPICAL. 20H ROOF LOAD 2X8 OUTSIDE RAIL & 2X4 #2 SYP LEDGER PER DWG DETAILS
CEILING PANEL:	2X4 WHITE T-GRID SYSTEM - FINISH HEIGHT 7'-10"
INSULATION:	R-30 UNFACED FIBERGLASS W/NETTING SUPPORT
SHEATHING:	15/32" CDX PLYWOOD G59 FELT W/9d 6" EN, 12" FN
(NOTE: FASTENERS TO BE 3" EN, 6" FN FIRST 5' AT FRONT AND BACK CORNER)	
ROOFING:	26 GAUGE HI RIB GALVALUME - 1-1/2" OVERHANG ON 92" SIDES

EXTERIOR DOORS	(6) 3/8 X 6/8 HM 20 GAUGE STEEL WITH 16 GAUGE FRAME, FLUSH, CLOSURE, DEAD BOLT, PUSH PULL PLATES, ADA THRESHOLD AND WEATHER STRIP
----------------	---

ELECTRICAL	
SERVICE:	120/240 VOLT SINGLE PHASE, 3 WIRE, 60 HZ. WITH GROUND
LOAD CENTER:	(1) 200 AMP MAIN MAIN BREAKER NEMA 3 EXTERIOR TYPE
ENTRANCE:	2" CONDUIT
RACEWAY:	MINIMUM #12 AWG, COPPER W/GROUND IN EMT AND/OR MC CABLE
LIGHTS:	(6) 4' TWO TUBE T8 TROFFER FLUORESCENT TYPE (2) 4' TWO TUBE T8 TROFFER FLUORESCENT TYPE (4) WP EXTERIOR VANDAL RESISTANT WITH 30 WATT FLUORESCENT BULB (2) SINGLE FACE EXIT LIGHT WITH BATTERY BACKUP
RECEPTACLES:	(8) 120 VOLT 20 AMP WHITE GFIC TYPE (1) 120 VOLT 20 AMP WHITE GFIC TYPE - EXTERIOR WP MOUNT
SWITCHES:	(8) 120 VOLT 15 AMP WHITE TOGGLE TYPE
MISC:	(4) 120 VOLT ADA COMPLIANT SURFACE MOUNT HAND DRYER (5) 1-1/2" X 12" PVC CAPPED PIPING PER PRINT

PLUMBING	
SUPPLY LINES:	CPVC
WASTE LINES:	PVC DWV-SCH 40 DRAIN-WASTE-VENT LINES (CONCEALED) STUBBED THRU FLOOR
WATER HEATER:	(1) 120 VOLT 20 GALLON TANK TYPE WITH T&P VALVE AND METAL DRAIN PAN
WATER CLOSET:	(5) WHITE CHINA TANK TYPE WITH ADA ELONGATED BOWL & OPEN FRONT SEAT (9) WHITE CHINA TANK TYPE WITH ELONGATED BOWL & OPEN FRONT SEAT
URINAL:	(4) WHITE CHINA WALL HUNG WITH FLUSH VALVE
LAVATORY:	(10) WHITE CHINA 20X17 WALL HUNG WITH LEVER FAUCET (1) PLASTIC MOP SINK WITH GOOSENECK LEVER FAUCET
ACCESSORIES:	(5) SET OF GRAB BARS - (10) 18" X 36" MIRROR WITH CLIPS LAVATORIES EQUIPPED WITH ADA INSULATED PIPE WRAPS
MISC:	SHUT OFF VALVES AT FIXTURES (7) FLOOR DRAIN WITH AUTOMATIC TRAP PRIMER (14) TOILET PAPER HOLDERS STEEL MODESTY PARTITIONS AND URINAL SCREENS

HVAC	
HEATING:	(2) 10 KW, 240 VOLT SINGLE PHASE HEAT STRIP
COOLING UNIT:	(2) 2 TON 24,000 BTU 240 VOLT SINGLE PHASE AIR CONDITIONERS
DUCT:	FOIL FACED RIGID FIBERGLASS MAIN TRUNK LINE 6" FOIL FACED INSULATED TAKE OFFS
DIFFUSERS:	24" PERFORATED TYPE
RETURN AIR:	VIA WALL JUMPERS TO RETURN AIR GRILLE AT FRONT OF HVAC UNIT
THERMOSTAT:	(2) WALL MOUNT PROGRAMMABLE (5/2)
EXHAUST FANS:	(2) 75 CFM CEILING MOUNT EXHAUST FAN-LIGHT COMBO DUCTED WITH ROOF CAP (2) 350 CFM CEILING MOUNT EXHAUST FAN DUCTED WITH ROOF CAP

BUILDING CODE NOTES:

- 15/32" CDX 24" RATED SHEATHING SHALL BE SUFFICIENT FOR STRUCTURAL SHEAR WALL REQUIREMENTS AT FASTENING SCHEDULE.
- BLOCKING AND ANCHORING BELOW FRAME BY OTHERS.
- DEALER SHALL BE RESPONSIBLE FOR ON SITE BARRIER FREE PROVISIONS, STEPS, RAMPS, PARKING SIGNS, ETC - BUILDING APPROACH (WALK OR RAMP) WITH A MINIMUM WIDTH OF 5' AND A GRADIENT OF NOT LESS THAN 1 FOOT IN 20 FEET.
- ALL LOCKS TO BE UNLOCKABLE FROM THE INTERIOR WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE.
- CORROSION RESISTANCE FLASHING AT TOP AND SIDES OF DOORS, WINDOWS AND AT ROOF PENETRATIONS.
- ALL GLAZING WITHIN 24" OF EXTERIOR PASSAGE DOORS AND INTERIOR PASSAGE DOORS OR WITHIN 18" OF FLOOR TO BE "SAFETY GLAZED" AND SO MARKED.

DATA PLATE IS ATTACHED IN VICINITY OF THE ELECTRICAL PANEL. STATE LABEL (IF APPLICABLE) IS AFFIXED IN VICINITY OF THE ELECTRICAL PANEL.

SPECIAL CONDITIONS/LIMITATIONS:
BUILDING GOOD FOR IECC ZONE 1 THRU 7.
FIRE ALARM SYSTEM IF REQUIRED BY LOCAL TO BE PROVIDED AND INSTALLED BY OTHERS AT SITE PER LOCAL CODE REGULATIONS.
IBC PER SECTION 1609.1.4 EXCEPTION - 7/16" OSB COVER PANELS FOR WINDOWS TO BE SUPPLIED AT-SITE BY OTHERS.
BOTTLE WATER COOLER (S) PROVIDED AT SITE BY OTHERS.
MOP SINK PROVIDED AT SITE BY OTHERS.

BUILDING CODE NOTES:

THE JOB SPECIFICATIONS SUPERCEDE THE DETAIL SPECIFICATIONS WHERE THERE IS A CONFLICT. BUILDING TO BE LOCATED MINIMUM 20' FROM EXISTING PROPERTY LINE. BUILDINGS ON THE SAME PROPERTY SHALL BE ASSUMED TO HAVE A PROPERTY LINE BETWEEN THEM. THE BUILDING EXTERIOR AND THE FACILITIES WITHIN THE BUILDING SHALL BE IDENTIFIED WITH THE INTERNATIONAL SYMBOL OF ACCESSIBILITY (BY OTHERS).

DESIGN PARAMETERS

OCCUPANCY GROUP B
CONSTRUCTION TYPE VB

DESIGN CRITERIA

ROOF LIVE LOAD: 20 PSF
ROOF DEAD LOAD: 10 PSF
FLOOR LIVE LOAD: 50 PSF
FLOOR DEAD LOAD: 10 PSF
WIND HORIZONTAL: 130 MPH, EXPOSURE 'C' 3sq
SEISMIC ZONE: Ss=0.919g S1=0.276g
SEISMIC DESIGN CAT D, SITE CLASS D SEISMIC GROUP 3

LOUISIANA CODES

2005 NATIONAL ELECTRICAL CODE
2006 INTERNATIONAL BUILDING CODE (EXCLUDING CHAPTERS 1, 11, 27 AND 29)
2006 INTERNATIONAL MECHANICAL CODE
2000 LOUISIANA STATE PLUMBING CODE
2006 INTERNATIONAL FUEL & GAS CODE
2004 ENERGY CODE ASHRAE 90.1

TEXAS CODES

2008 NATIONAL ELECTRICAL CODE
2006 INTERNATIONAL BUILDING CODE
2006 INTERNATIONAL MECHANICAL CODE
2006 INTERNATIONAL PLUMBING CODE
2006 INTERNATIONAL FUEL & GAS CODE
2006 INTERNATIONAL ENERGY CONSERVATION CODE
1994 TEXAS ACCESSIBILITY STANDARDS

OKLAHOMA CODES

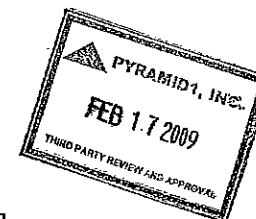
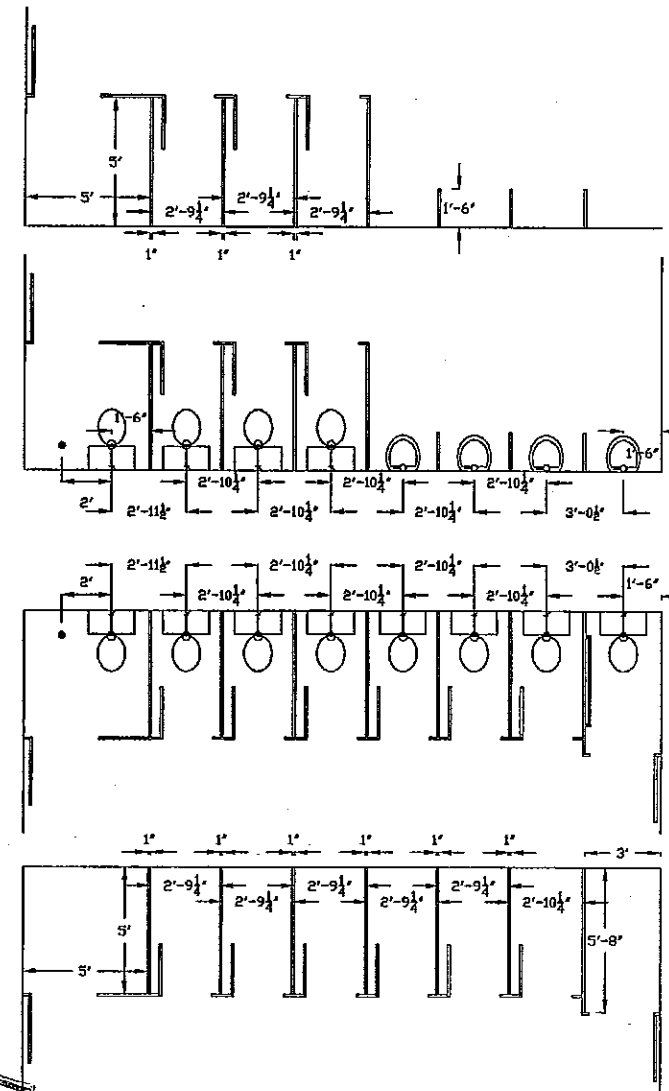
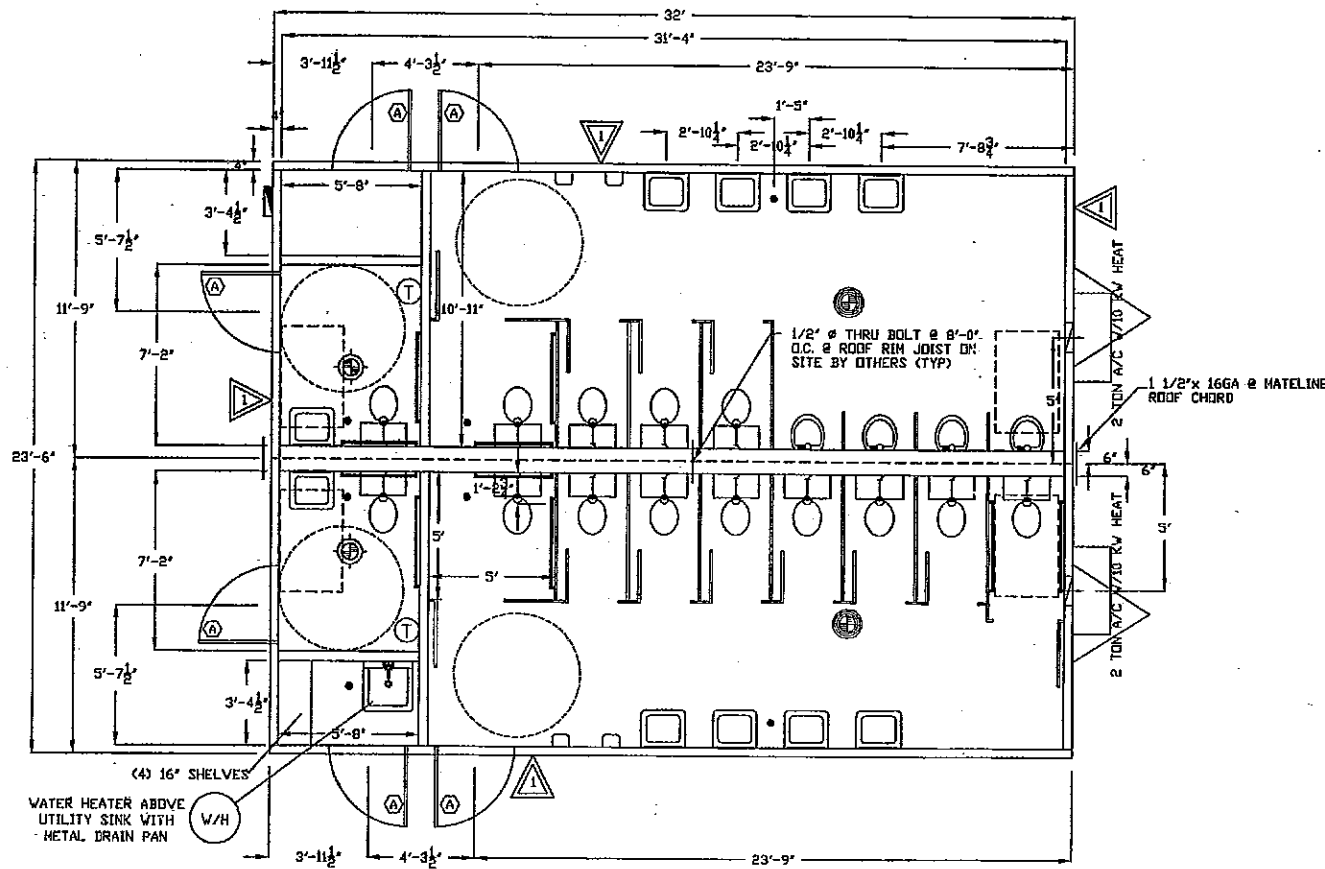
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2006 INTERNATIONAL FUEL & GAS CODE
NFPA 101-2000
ADAAG



PROFESSIONAL STAMP		COVER - SPECIFICATIONS	
		SOUTHERN MODULAR INDUSTRIES	
		2701 Magnet Street Houston, TX 77054	
		TITLE: M SPACE HOLDINGS 24X36 (23'-6" X 32'-0" BOX) OFFICE	
SCALE: 1/4"=1'-0"	DATE: 1/22/09	PROJ. #	XXXX.01.02
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RST#9036

02-16-09



SHEARWALL LEGEND

7/16" OSB SHEATHING w/ STUDS @ 16" O.C. MAX. NAILING SHALL BE 8d NAILS @ 6" E.N. & 12" F.N. ALLOWABLE SHEAR = 260 x 1.4 = 364 PLF PER TABLE 2306.4.1 IBC

SHEARWALL TIE DOWN SCHEDULE

# SHEARWALL LINE	NUMBER OF HOLDDOWNS @ EACH END OF EACH SHEARWALL & MODULAR CORNER*
LINE 1	(1) x 12GA*
LINE 2	(1) x 12GA*
LINE A	(1) x 12GA*
LINE C	(1) x 12GA*

* 1 1/2" x 12" x 16GA HOLD DOWN STRAP WITH (5) #12 S.T.S. SCREWS EACH END

* 1 1/2" x 12" x 16GA HOLD DOWN STRAP WITH (5) #12 S.T.S. SCREWS EACH END

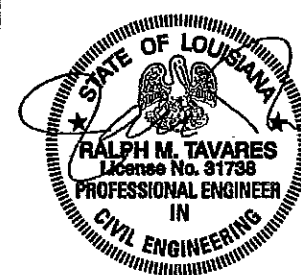
* END OF SHEARWALLS ARE CONSTITUTED BY ALL DOOR, WINDOW, AND HVAC OPENING KING POSTS.

* MODULAR CORNERS INCLUDED OUTSIDE CORNERS AS WELL AS CORNERS EA. SIDE @ MATING LINES.

DOOR & WINDOW SCHEDULE

SYMBOL	QTY	DESCRIPTION	ROUGH OPENING
(A)	6	3/0 X 6/8 INSULATED 20 GAUGE BLANK WITH 16 GAUGE FRAME, CLOSURE, DEAD BOLT, PUSH/PULL PLATES, WEATHER STRIP & ADA THRESHOLD	38 X 81
(B)			
(C)			
(D)			
(E)	1	20 X 12 WHITE RETURN AIR OPENING AT FRONT OF HVAC UNIT	20 X 12

PROFESSIONAL STAMP



FLOOR PLAN

SOUTHERN MODULAR INDUSTRIES



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Houston, TX 77054

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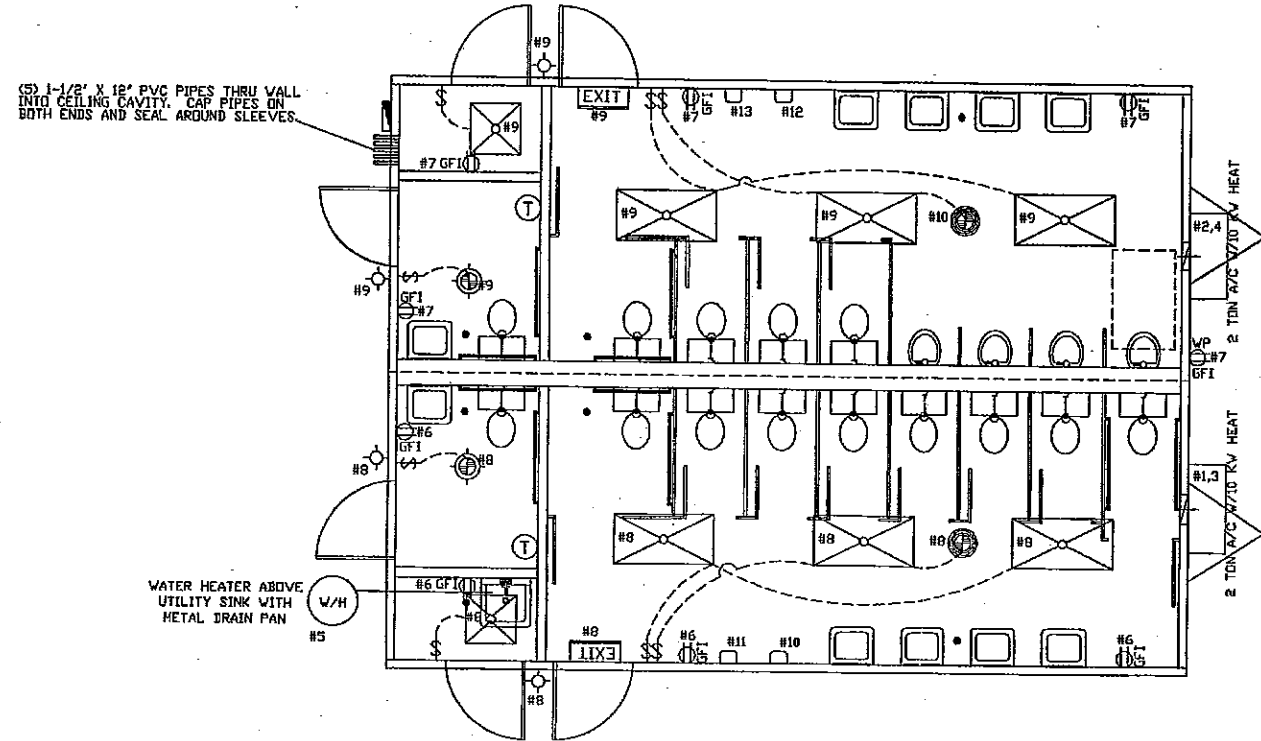
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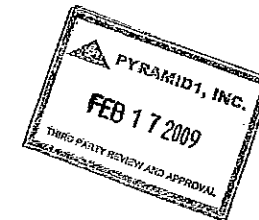
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RST#9036

02-16-09



ELECTRICAL CALCS					BREAKER SIZE	CALC'D WATTS
CIRCUIT#	DEVICE	QTY	WATTS	X'S		
1,3	HVAC	1	10,000	1.25	60A-2P	12,500
2,4	HVAC	1	10,000	1.25	60A-2P	12,500
5	HWH	1	1,500	1.25	20A-1P	1,875
6	RECEPT	4	180	1.00	20A-1P	720
7	RECEPT	5	180	1.00	20A-1P	900
8	LIGHT	3	64	1.25	15A-1P	240
	LIGHT	1	32	1.25	15A-1P	40
	FAN/LITE	1	120	1.25		150
	EXH FAN	1	180	1.25		225
	D/S LITE	2	30	1.25		76
	EXIT	1	15	1.25		19
9	LIGHT	3	64	1.25	15A-1P	240
	LIGHT	1	32	1.25		40
	FAN/LITE	1	120	1.25		150
	EXH FAN	1	180	1.25		225
	D/S LITE	2	30	1.25		76
	EXIT	1	15	1.25		19
10	HD DRYER	1	1,200	1.00	15A-1P	1,200
11	HD DRYER	1	1,200	1.00	15A-1P	1,200
12	HD DRYER	1	1,200	1.00	15A-1P	1,200
13	HD DRYER	1	1,200	1.00	15A-1P	1,200
TOTAL WATTS						34,795
TOTAL AMPS (WATTS/240V)						145.0



SYMBOL	QTY.	DESCRIPTION
1	1	200 AMP - 120/240V - SINGLE PHASE - NEMA 3 - ELECTRICAL PANEL
6	4	4' 2-TUBE FLUORESCENT T8 TROFFER LIGHT WITH ELECTRONIC BALLAST (48" T8 E8 32 WATT, FIXTURE WATTAGE 64 WATTS)
2	2	4' 4-TUBE FLUORESCENT T8 TROFFER LIGHT WITH ELECTRONIC BALLAST (48" T8 E8 32 WATT, FIXTURE WATTAGE 32 WATTS)
4	4	30 WATT FLUORESCENT WP EXTERIOR LIGHT ON PHOTO CELL
EXIT	2	EXIT LIGHT WITH BATTERY BACKUP
2	2	COMBINATION 75 CFM CEILING FAN/LIGHT DUCTED THRU ROOF WITH CAP
2	2	350 CFM CEILING EXHAUST DUCTED THRU ROOF WITH CAP
8	8	120V 15 AMP WHITE TOGGLE SWITCH
0	0	120V 15 AMP WHITE DUPLEX RECEPTACLE GROUNDING TYPE
GFIC	8	120V 20 AMP WHITE GFIC RECEPTACLE
GFIC/MP	1	120V 20 AMP WHITE GFIC RECEPTACLE EXTERIOR MOUNT WITH WP COVER
4	4	ADA COMPLIANT SURFACE MOUNT HAND DRYER
T	2	PROGRAMMABLE THERMOSTAT (5/2)

PANEL
120/240V SINGLE PHASE 3-WIRE NEMA 3-R
TO BE MARKED AS APPROVED FOR USE AS
SERVICE EQUIPMENT.

#6 BARE GROUND WIRE FROM GROUNDING LUG
IN PANEL BOX TO GROUNDING BOLT ON FRAME.

MAIN DISTRIBUTION PANEL SUPPLIED
AND INSTALLED AT SITE BY OTHERS.

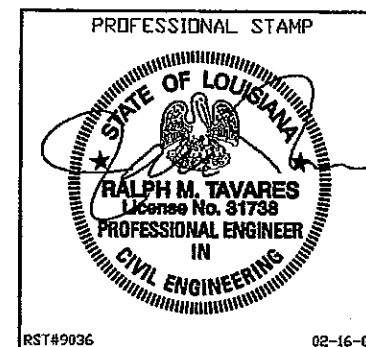
2" PVC CONDUIT FOR SITE FEEDERS
BY OTHERS - ALL CONNECTIONS
MADE AT SITE BY OTHERS

ELECTRICAL PANEL
RISER DIAGRAM

COPPER WIRE SIZE	
CIRCUIT SIZE	WIRE SIZE (W/GRD)
15 AMP	#14
20 AMP	#12
30 AMP	#10
40 AMP	#8
60 AMP	#6
90 AMP	#4

THE CIRCUIT NUMBERS SHOWN DO NOT NECESSARILY DENOTE
THE ACTUAL CIRCUIT NUMBERS BUT ARE INTENDED TO DESIGNATE
CIRCUITS.

EMT CONDUIT REQUIREMENTS
ALL CONDUCTORS TO BE MINIMUM 90 DEGREE C RATED.
MAXIMUM OF (4) FOUR 15 AMP CIRCUITS PER 1/2" EMT CONDUIT.
MAXIMUM OF (3) THREE 20 AMP CIRCUITS PER 1/2" EMT CONDUIT.
ALL OTHER AMPERAGE CIRCUITS TO BE RUN SEPARATELY IN
MINIMUM 3/4" EMT CONDUIT.



RST#9036

02-16-09

ELECTRICAL PLAN

SOUTHERN MODULAR INDUSTRIES

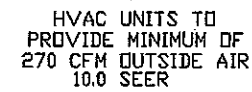


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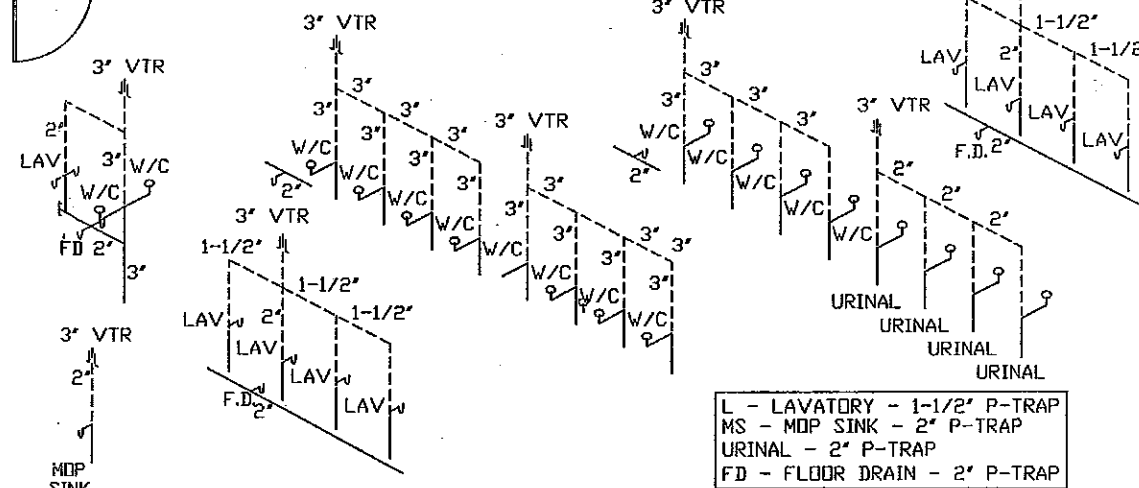
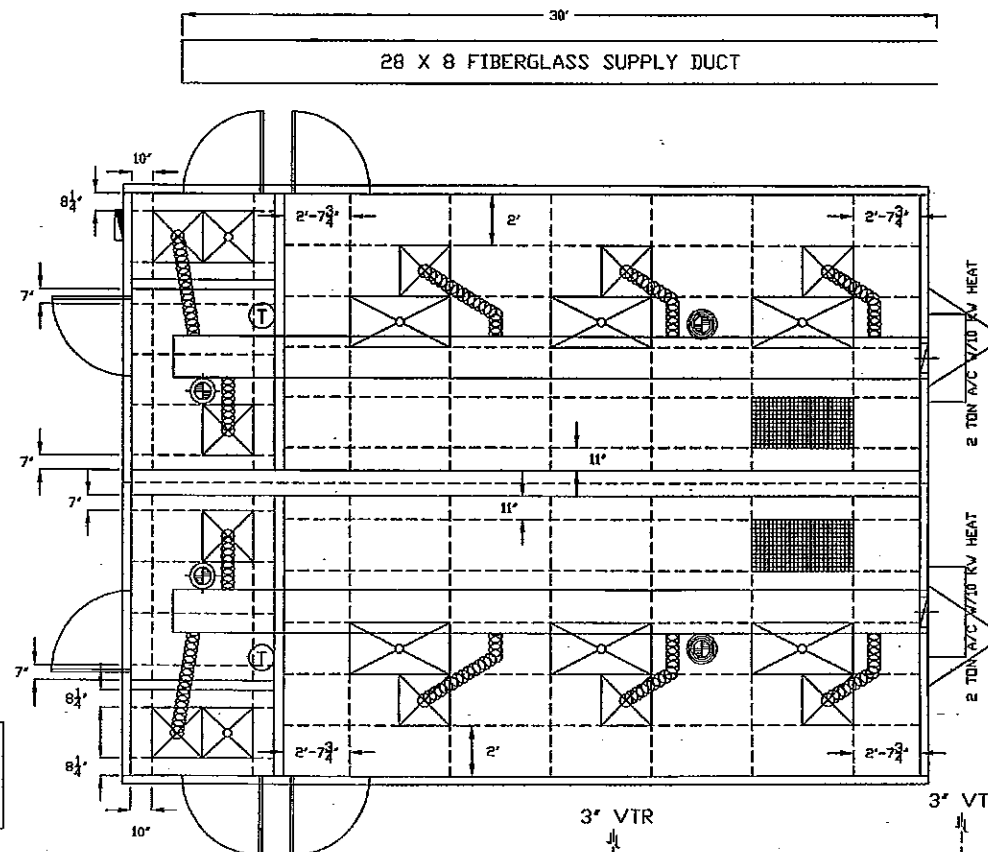
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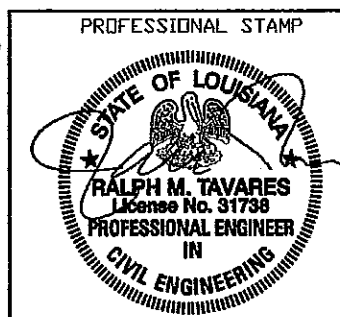
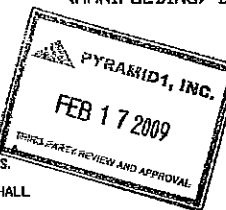
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1. WATER HEATER LINES TO BE TYPE L COPPER.
2. WATER PIPING TO BE SUPPLIED AT 4" O.C.
3. WATER TEMPERATURE FACTORY SET AT 120 DEG FAR. IF TANK TYPE CONTROLS LOCATED BEHIND COVER PANEL, OUTLET TEMPERATURES LIMITED TO 110 DEG FAR. EQUIPMENT CONTROLS ARE SUCH TO ALLOW A 90 DEG FAR SETPOINT.
4. A SHUT OFF VALVE SHALL BE REQUIRED FOR EACH FIXTURE.
5. WATER HAMMER ARRESTERS PROVIDED IF AIR CHAMBERS TO BE MINIMUM OF 15' LONG AND NOT LESS THAN THE DIAMETER OF PIPE SERVING.
6. TANK TYPE WATER HEATER EQUIPPED WITH DRAIN COCK.
7. DIELECTRIC UNION TO BE USED AT CONNECTIONS OF WATER LINES TO WATER HEATER.
8. COLD WATER INLET TO BE PROVIDED WITH A SHUT OFF VALVE ABOVE FLOOR AT THE WATER HEATER.
9. IF TANK TYPE, T&P VALVE, 210 DEG FAR, 125 PSI, WITH A 3/4" DISCHARGE TO THE EXTERIOR VIA A 4" AIR GAP.
10. FULL SIZED SHUT OFF VALVE TO BE PROVIDED.
11. 1/2" WATER SUPPLY SHALL SUPPLY ONLY ONE FIXTURE.
12. IF TANK WATER HEATER IS UTILIZED, PROVIDE WATER HEATER PAN PER BUILDING CODE.
13. WATER TANK TO HAVE A 20 GALLON CAPACITY WITH INTEGRAL FUEL TRAP.

1. DUV MATERIAL TO BE SCHEDULE 40 PVC.
2. ALL PIPES TO BE SECURED AT 4' O.C.
3. ALL CLEAN OUTS SHALL BE ACCESSABLE. CLEAN OUTS TO BE PROVIDED AT THE BASE OF ALL WASTE AND SOIL STACKS AND AT THE END OF EACH HORIZONTAL PIPING CAN BE REACHED WITH A CLEAN OUT TOOL WITHOUT PASSING MORE THAN 45 DEGREE TURNS.
4. 1/2" PER 1' SLOPE PROVIDED ON ALL HORIZONTAL BRANCHES.
5. VENTS SHALL BE 3" DIA. 12" ABOVE AND BELOW ROOF AND SHALL NOT BE LOCATED WITHIN 10' OF OTHER VENT OPENINGS.
6. ALL VERTICAL TO HORIZONTAL OR HORIZONTAL TO HORIZONTAL CHANGES OF DIRECTION SHALL BE THROUGH A LONG TURN TEE-WYE OR MINOR TURN AND WYE.
7. ALL HORIZONTAL TO VERTICAL CHANGES OF DIRECTION SHALL BE THROUGH A SANITARY TEE OR IF AT THE SAME LEVEL IN VERTICAL STACK THROUGH AN APPROVED DOUBLE FIXTURE FITTING.



ALL DWV LINES ARE STUBBED THRU FLOOR - ALL INTERCONNECTIONS
(MANIFOLDING) BETWEEN MODULES ARE AT SITE BY OTHERS

REFLECTIVE CEILING - HVAC
PLUMBING SCHEMATIC

SOUTHERN MODULAR INDUSTRIES

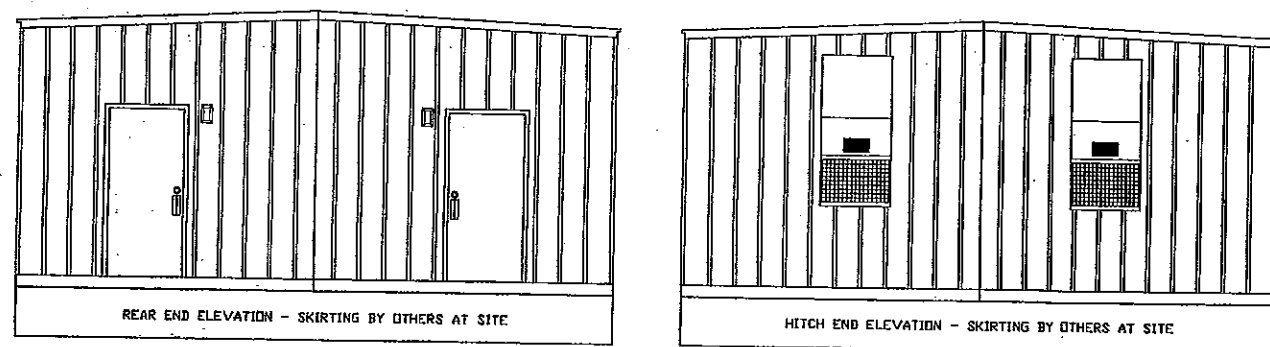
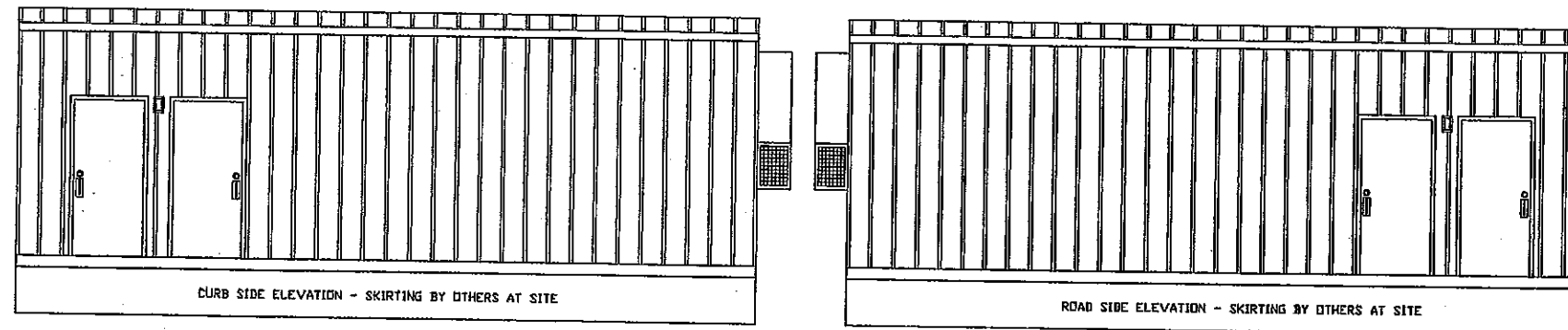


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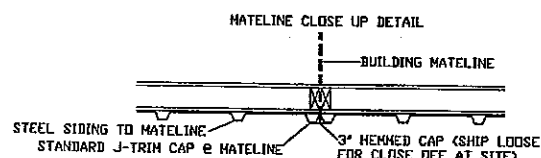
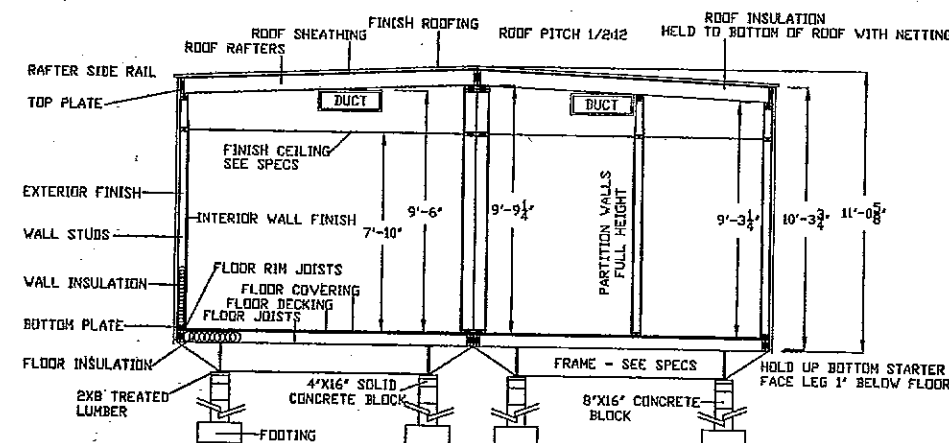
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1/4"=1'-0"	1/22/09	XXXX.01.02

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DESCRIPTION	FASTENER	LOCATION
UP TO 4" OPENING		
2-2X4 @ 2' SPACING		
1-2X4 @ 2' SPACING		
2-2X4 @ 2' SPACING		

DESCRIPTION	FASTENER	LOCATION
JOIST TO SILL	3-16d	END NAIL
SILL PLATE TO JOIST OR BLOCKING	16d @ 16" O.C.	TYPICAL FACE NAIL
TOP PLATE TO STUD	2-16d	END NAIL
STUD TO SILL PLATE	4-0d (2-A6d)	TOP NAIL (END NAIL)
DOUBLE STUDS	16d @ 24" O.C.	FACE NAIL
DOUBLE TOP PLATES	16d @ 24" O.C. (8-16d)	FACE NAIL (LAP SPLICE)
BLOCKING BETWEEN JOISTS/RAFTER/STUDS	3-8d	TOP NAIL
RIM JOIST TO TOP PLATE	8d @ 6" O.C.	TOP NAIL
TOP PLATES, LAPS, INTERSECTIONS	2-16d	FACE NAIL
RAFTERS TO PLATE	H25A CLIP	FACE NAIL
7/16" OSB/SMART PANEL TO STUD/CLIP (DOOR RES.)	6" O.C. FIELD (3" O.C. EDGE)	FACE NAIL
AND 5/16" HARD PANEL SIDING		
ROOF DECKING TO RAFTERS	SEE SHEET 1	
FLOOR DECKING TO JOIST	SEE SHEET 1	
BUTYL BOARD TO RIM JOIST	1"X1/2" WIDE CROWN @ 12" O.C.	FACE NAIL
GYPSON TO STUDS	PER GA-216	PER GA-216
GYPSON TO RAFTERS	PER GA-216	PER GA-216
RAFTER CHORD SPLICE (CMSTIC@SPLICES)	16d @ 3" O.C.	PER MANUFACTURER
STUD TO ROOF/FLOOR SILL	SIMPSON H25A CLIP 1/2" x 8d	TO PLATES & STUDS
OUTRIGGERS TO JOISTS	OR OVERLAP SMART PANEL 4"	
FLOOR SILL TO FRAME	(2) 3/8"x3" LAG w/ WASHER	FACE SCREW
WALL TO WALL	1-3/8"x10" CARRIAGE BOLT	1 PER CORNER
	16d @ 24" O.C.	FACE NAIL



PROFESSIONAL STAMP

RALPH M. TAVARES
License No. 31738
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

CROSS SECTION-ELEVATIONS
FASTENING SCHEDULE

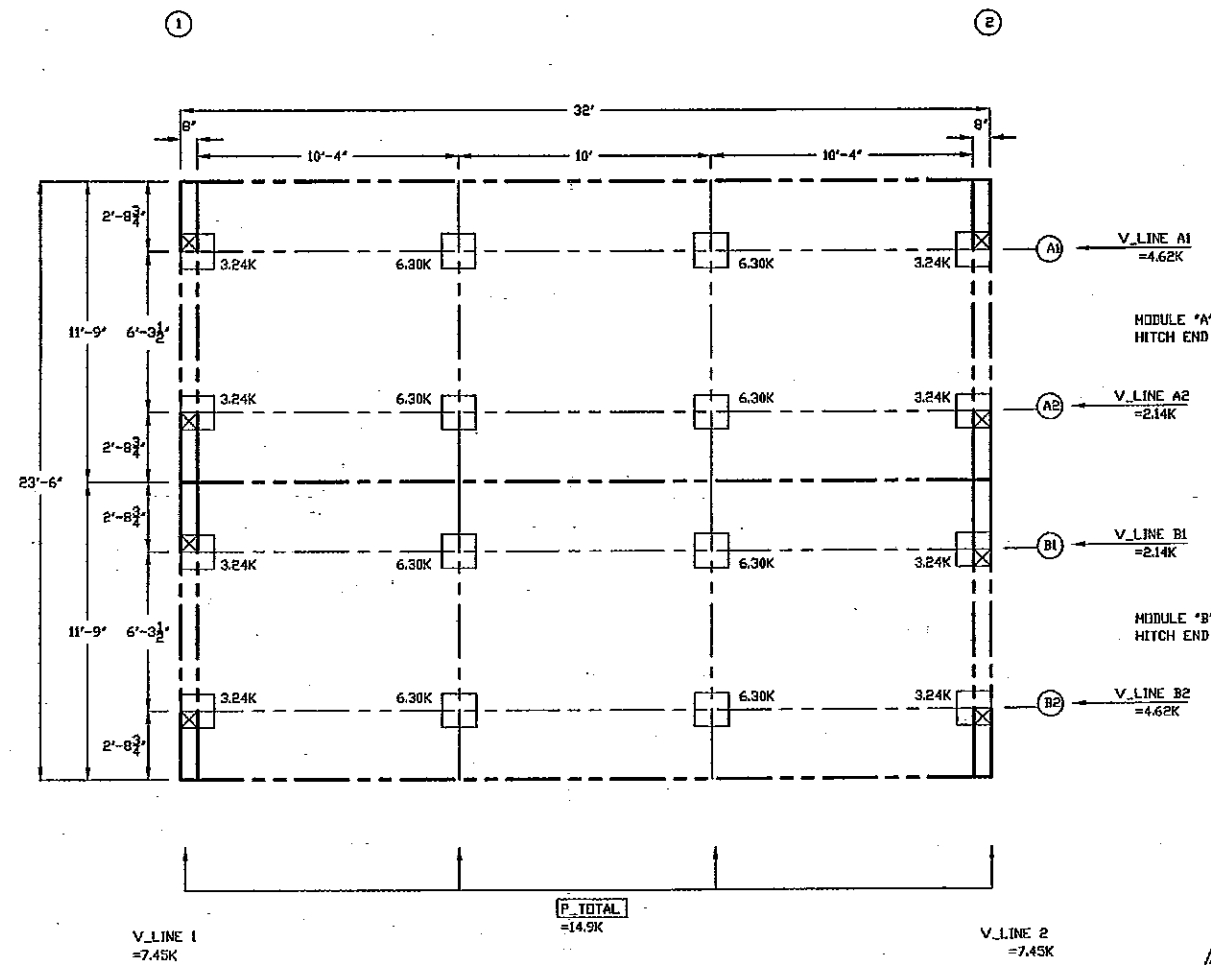
SOUTHERN MODULAR INDUSTRIES

2701 Magnet Street
Houston, TX 77054

TITLE: M SPACE HOLDINGS
24X36 (23'-6" X 32'-0" BOX) OFFICE

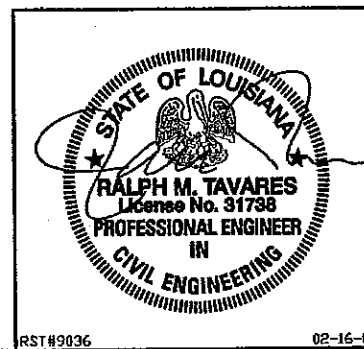
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NOTES:

1. SHADED PIERS (IF SHOWN) REQUIRE ADDITIONAL BLOCKING TO BOTTOM OF FLOOR JOISTS
2. SOUTHERN MODULAR INDUSTRIES, LP ASSUMES NO RESPONSIBILITY FOR ACTUAL FOUNDATION DESIGN AND/OR CONSTRUCTION.
3. CRAWL SPACE AREA TO BE VENTILATED AT 1 S.F. PER EACH 150 S.F. OF CRAWL SPACE AREA.
4. THIS IS A SUGGESTED PLAN ONLY, FOUNDATION TO BE DESIGNED BY A PROFESSIONAL ENGINEER PER LOCAL SOIL AND CLIMATIC CONDITIONS.
5. PROVIDE POSITIVE UNDER DRAINAGE MIN. 4" PEA GRAVEL AND 6 MIL POLYETHYLENE.
6. PROVIDE MINIMUM 22' X 24' ACCESS TO CRAWL SPACE AREA.
7. MINIMUM FOOTING DEPTH DETERMINED BY LOCAL SITE CLIMATIC REQUIREMENTS.
8. PIERS IN AXLE AREA MAY REQUIRE REMOVAL OF FRAME RUNNING GEAR.
9. KIP LOADS BASED ON MINIMUM 3,000# LOAD BEARING SOIL.



SUGGESTED BLOCKING PLAN

SOUTHERN MODULAR INDUSTRIES



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RST#9036

02-16-09