

DESIGN BY: LARRY CARVER  
CHECKED BY: TOM HALL  
DATE: 8-10-16

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# MISSOURI DEPARTMENT OF TRANSPORTATION

CONCRETE BLOCK TRUCK WASH  
CENTRAL DISTRICT  
LINN, MISSOURI 65051  
143 Commercial Drive  
Osage County

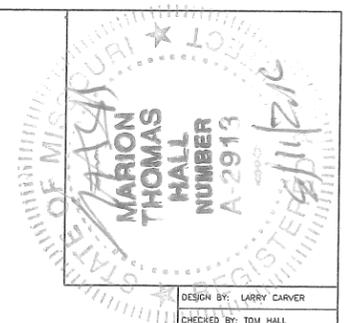
### CODE REQUIREMENTS

- BUILDING CODE - CURRENT IBC
- PLUMBING CODE - CURRENT IBC
- MECHANICAL CODE - CURRENT IBC
- ELECTRICAL CODE - CURRENT N.E.C.

Concrete Block Truck Wash  
Central District  
Linn, Missouri

MISSOURI DEPARTMENT  
OF TRANSPORTATION  
DIVISION OF GENERAL SERVICES  
FACILITIES MANAGEMENT

COVER SHEET



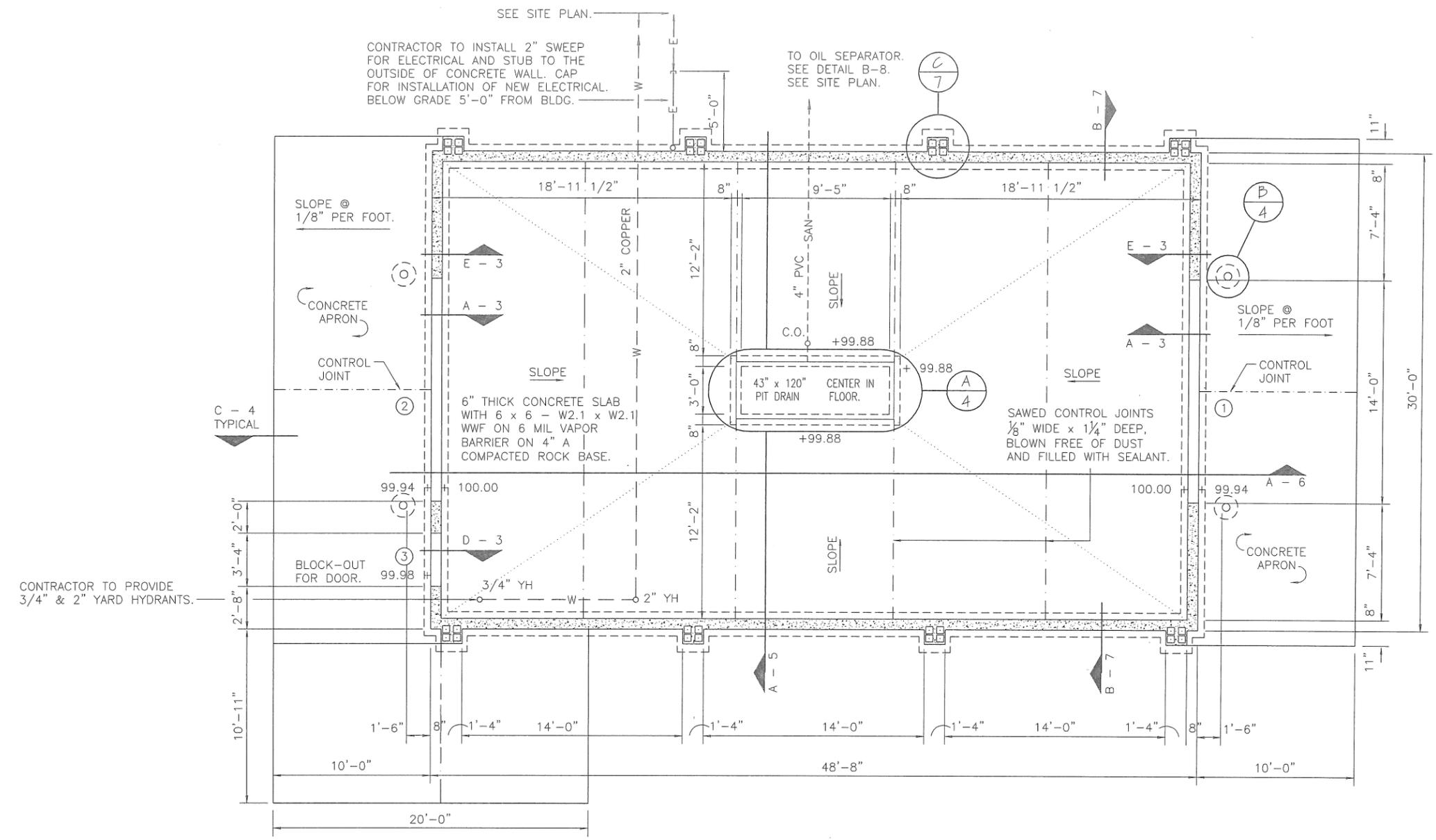
DESIGN BY: LARRY CARVER  
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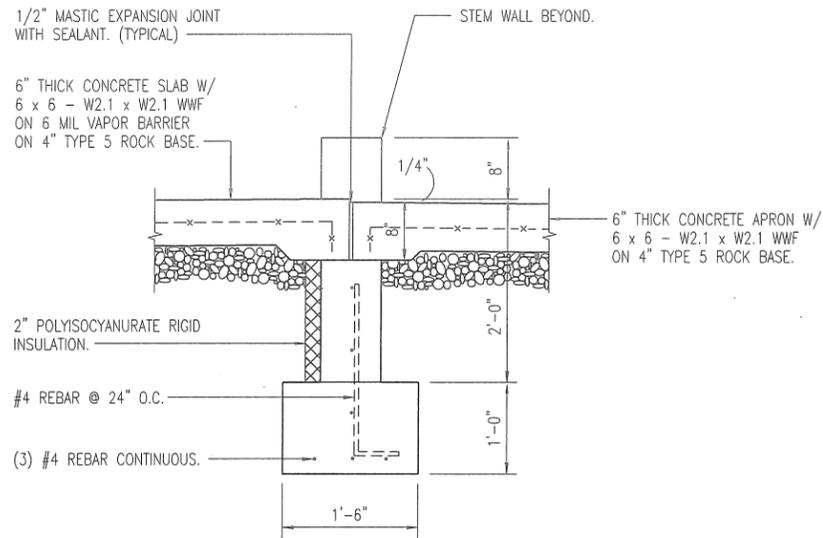
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 OF TRANSPORTATION  
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FOUNDATION/FLOOR PLAN

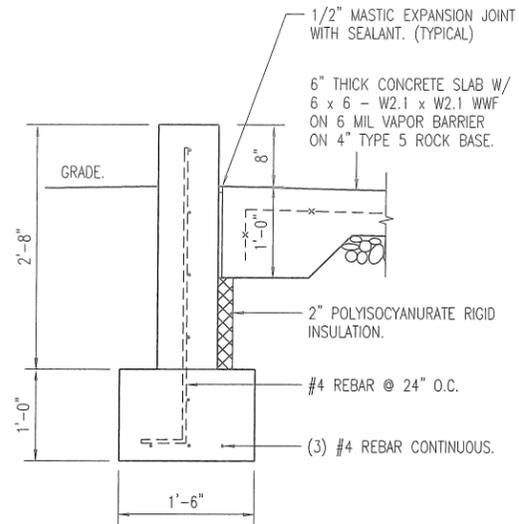
Sheet 2 of 15



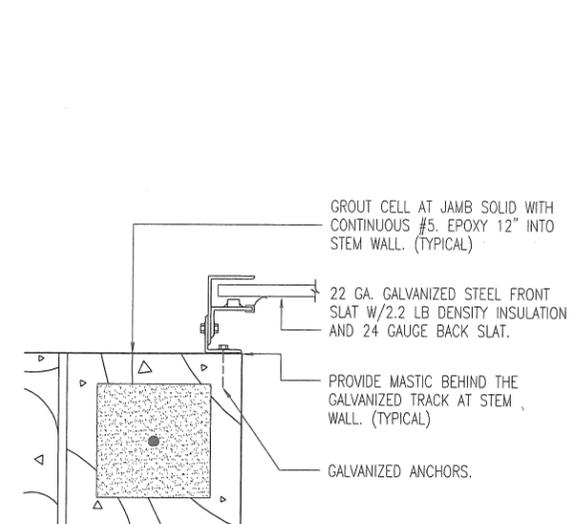
FOUNDATION/  
 FLOOR PLAN  
 SCALE: 1/8" = 1'-0"  
 N



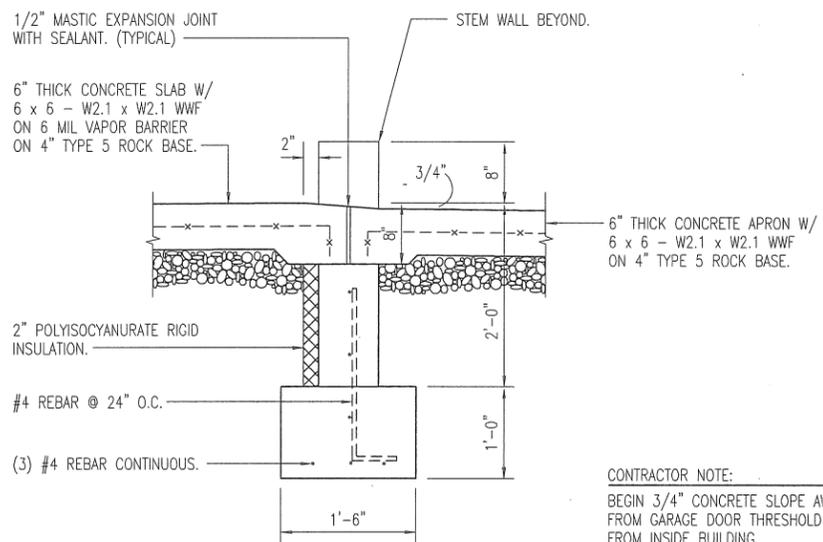
**D**  
3  
PASSAGE DOOR THRESHOLD  
SCALE: 1/2" = 1' - 0"



**E**  
3  
STEM WALL  
SCALE: 1/2" = 1' - 0"

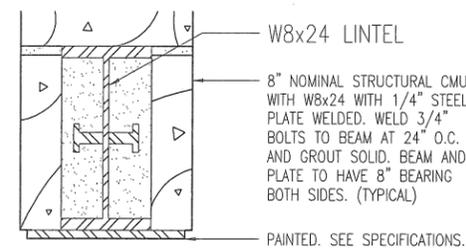


**F**  
3  
GARAGE DOOR JAMB  
SCALE: 1/2" = 1' - 0"

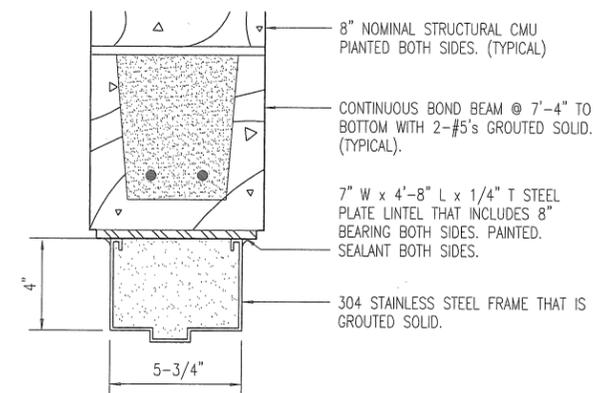


CONTRACTOR NOTE:  
BEGIN 3/4" CONCRETE SLOPE AWAY FROM GARAGE DOOR THRESHOLD 2" FROM INSIDE BUILDING.

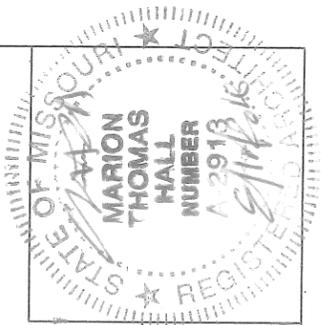
**A**  
3  
GARAGE DOOR THRESHOLD  
SCALE: 1/2" = 1' - 0"



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



**C**  
3  
HEAD/JAMB @ 2"  
SCALE: 1/2" = 1' - 0"



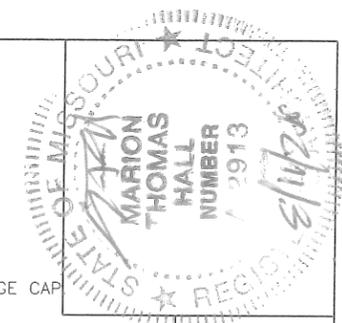
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FOUNDATION DETAILS



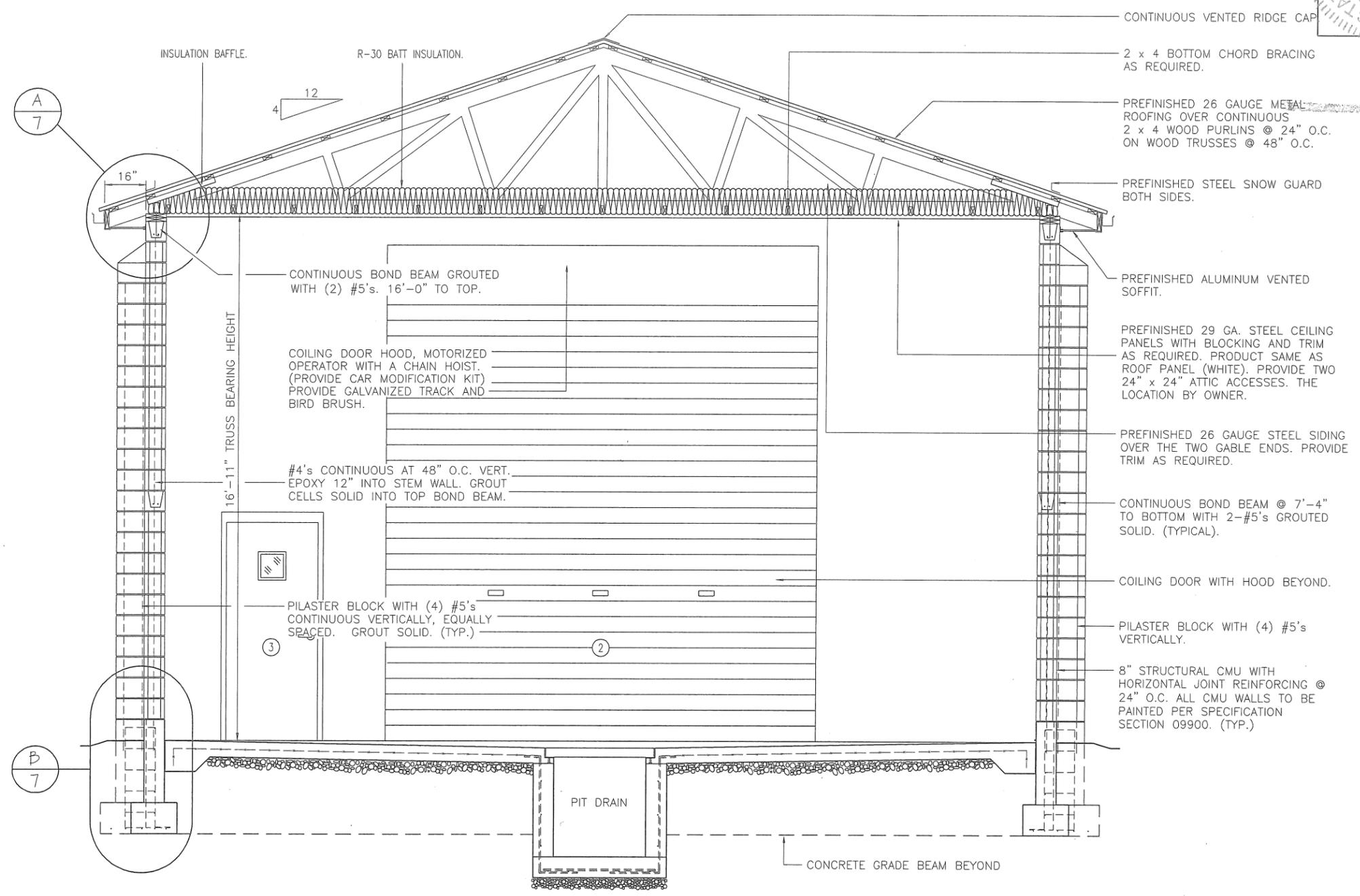


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BUILDING SECTION

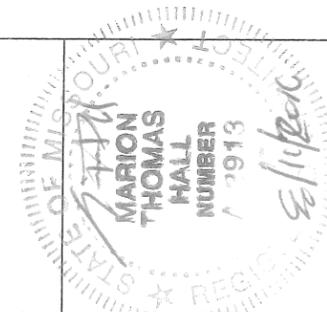


**ENGINEERING DESIGN AND SHOP DRAWINGS:**

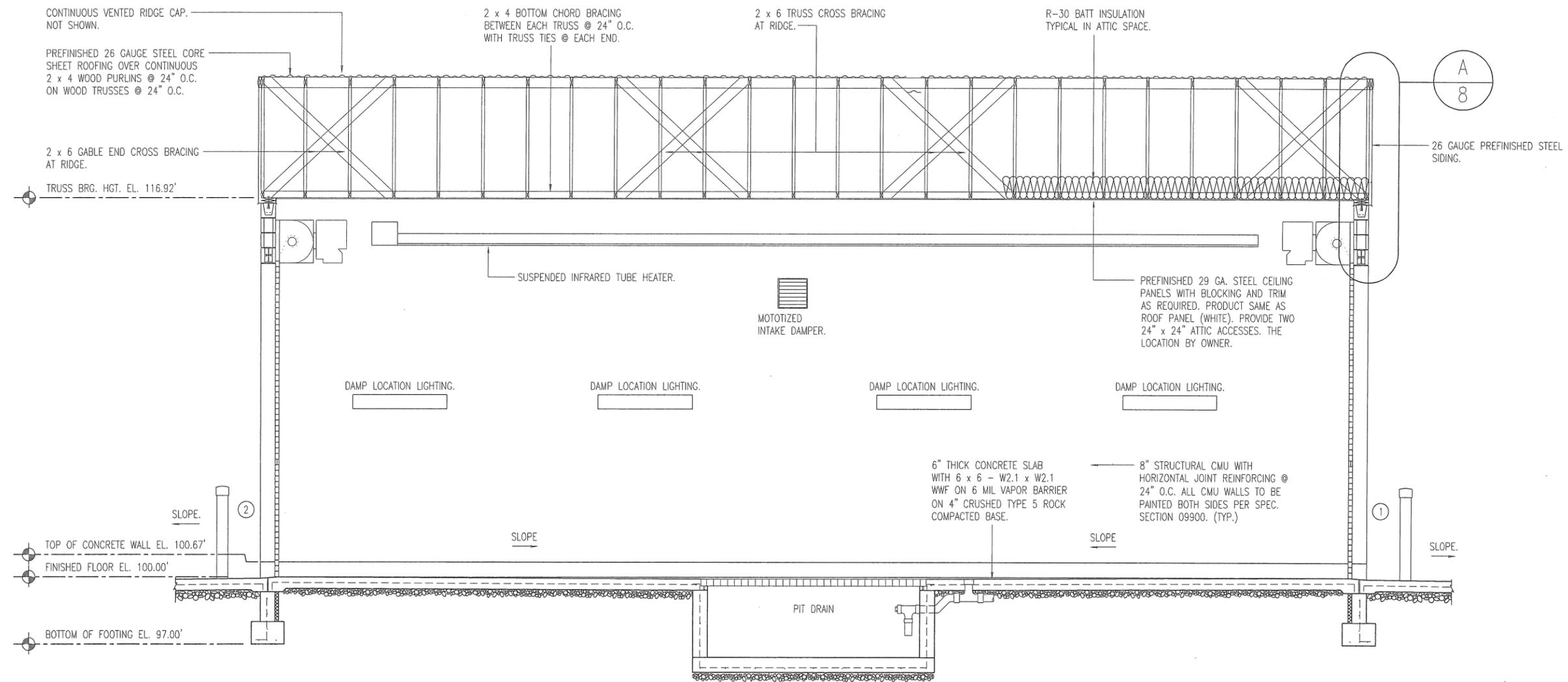
1. PROFESSIONAL ENGINEER: ALL TRUSS DESIGNS SHALL BEAR THE NAME, SEAL, AND REGISTRATION NUMBER OF A LICENSED PROFESSIONAL ENGINEER.
2. TRUSS DESIGNS SHALL CONTAIN THE FOLLOWING DATA:
  - A. LOADING (UNIFORM)
    1. TOP CHORD
      - LIVE LOAD 25 PSF
      - DEAD LOAD 10 PSF
      - SNOW DRIFT - PER 2013 IBC
    2. BOTTOM CHORD
      - DEAD LOAD 5 PSF
      - TOTAL LOAD 35 PSF
  - B. METAL CONNECTORS - NOTE GAUGE SIZES OF CONNECTORS, NAME OF MANUFACTURER, AND CAPACITY OF EACH CONNECTION.
  - C. LUMBER SPECIFICATIONS
  - D. PITCH, SPAN, AND SPACING OF TRUSSES
  - E. DESIGN LOADINGS AND ALLOWABLE UNIT STRESS INCREASE, IF ANY
  - F. FORCE ANALYSIS OF BAR FORCES IN EACH MEMBER
  - G. SIZE AND LOCATION OF ALL CONNECTOR PLATES
  - H. TRUSS SUPPORTS
  - I. CAMBER, IF ANY
  - J. PERMANENT BRACING
  - K. HANDLING AND ERECTION INSTRUCTIONS
  - L. SPECIFY TRUSS TIES FOR SECURE APPLICATION TO SUBSTRATE DUE TO UPLIFT.
3. FIVE COPIES OF EACH TRUSS DESIGN AND/OR SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW PRIOR TO THE FABRICATION OF ANY COMPONENTS.
4. STRUCTURAL ENGINEERS REVIEW OF DRAWINGS PREPARED BY THE CONTRACTORS, SUPPLIERS, ETC., ARE ONLY FOR CONFORMANCE WITH DESIGN CONCEPT. CONSTRUCTION SHALL NOT START WITHOUT SAID REVIEW.

- DESIGN CRITERIA:
1. BUILDING CODE: CURRENT IBC
  2. SEISMIC AV = 0.125; AA = 0.13
  3. BASIC WIND SPEED 90 MPH, EXPOSURE C
  4. PITCH 4:12

A BUILDING SECTION  
 5 SCALE: 1/4" = 1' - 0"



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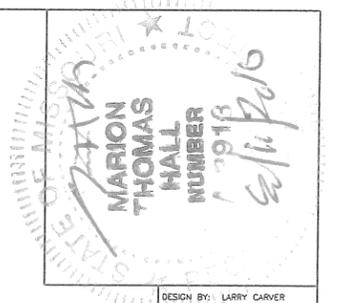
A  
8

A BUILDING SECTION  
 SCALE: 3/16" = 1' - 0"

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BUILDING SECTION

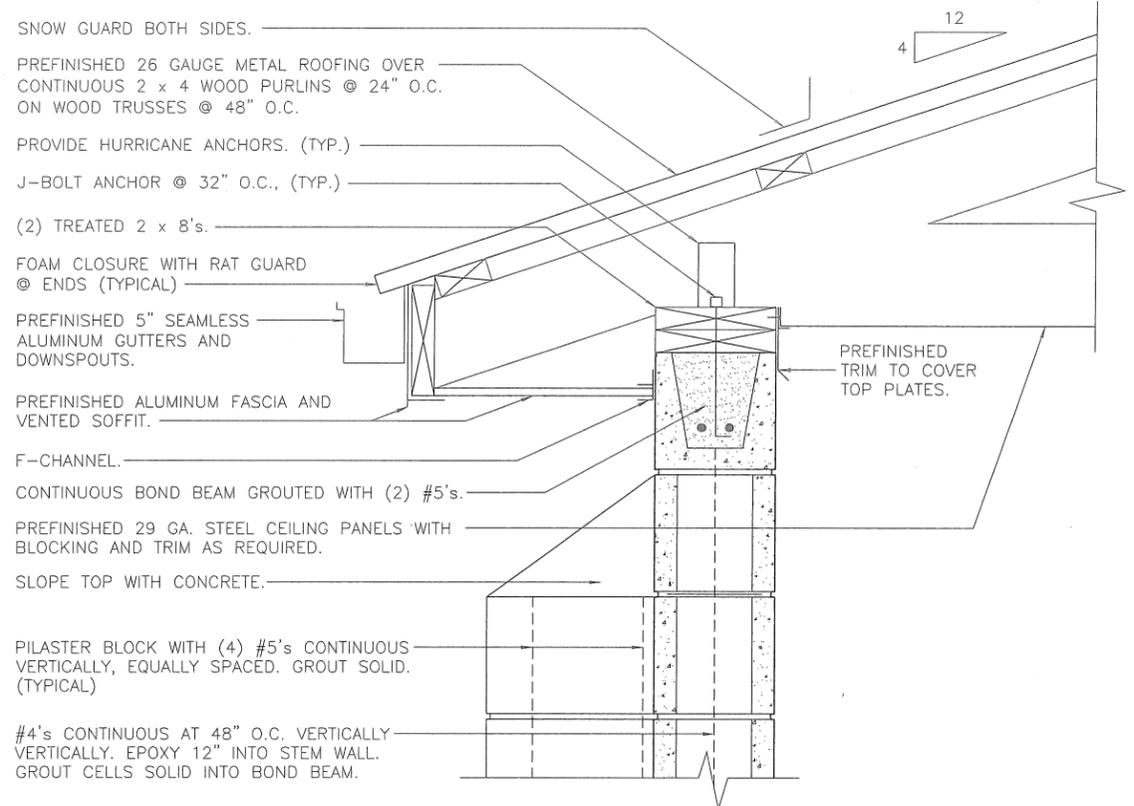


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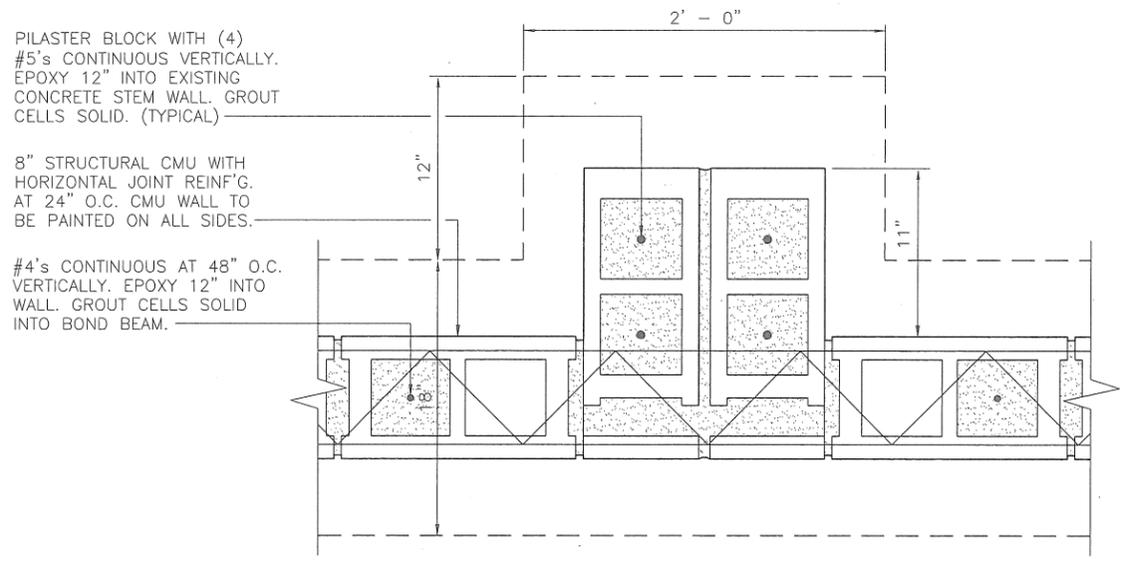
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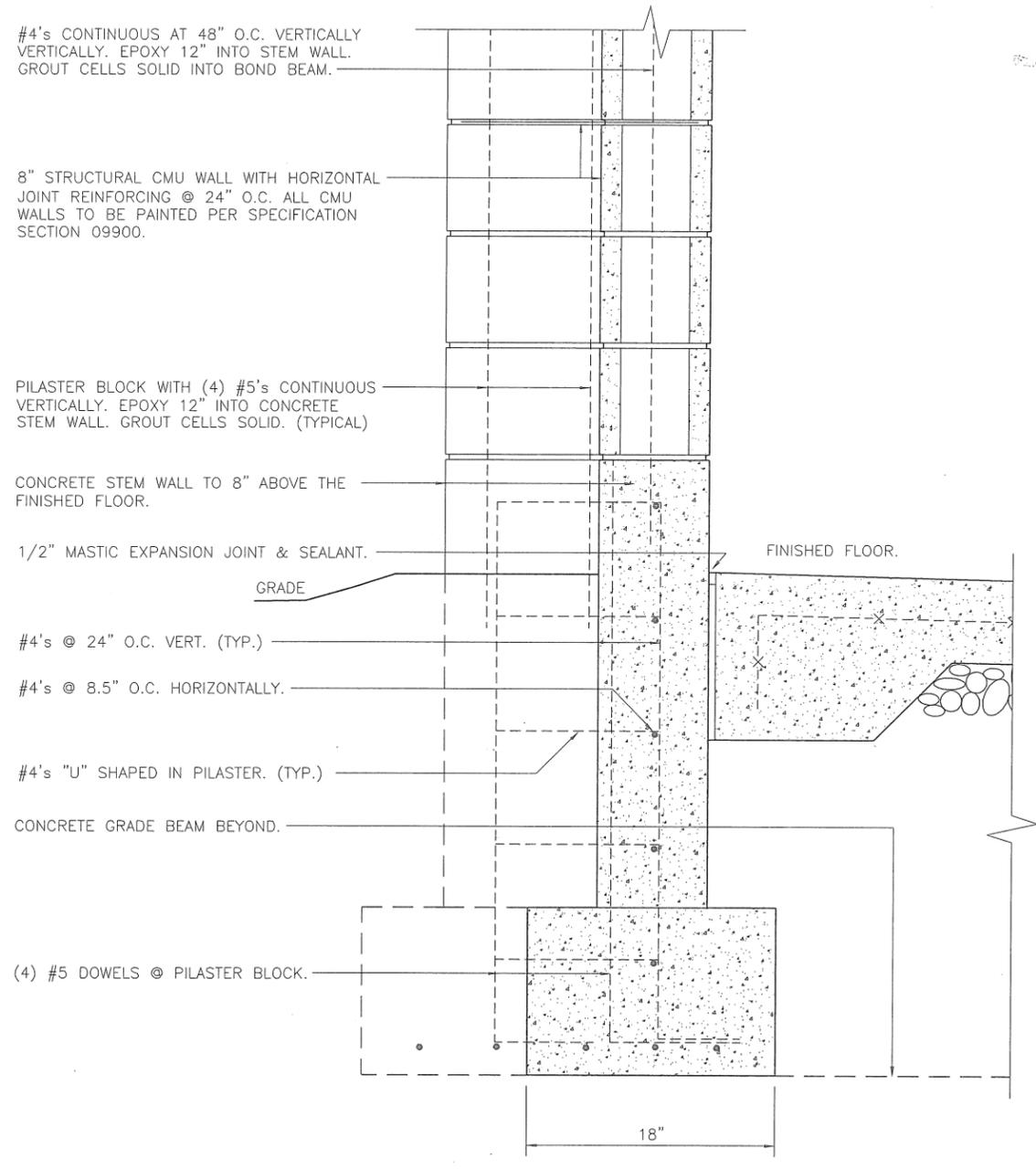
DETAILS



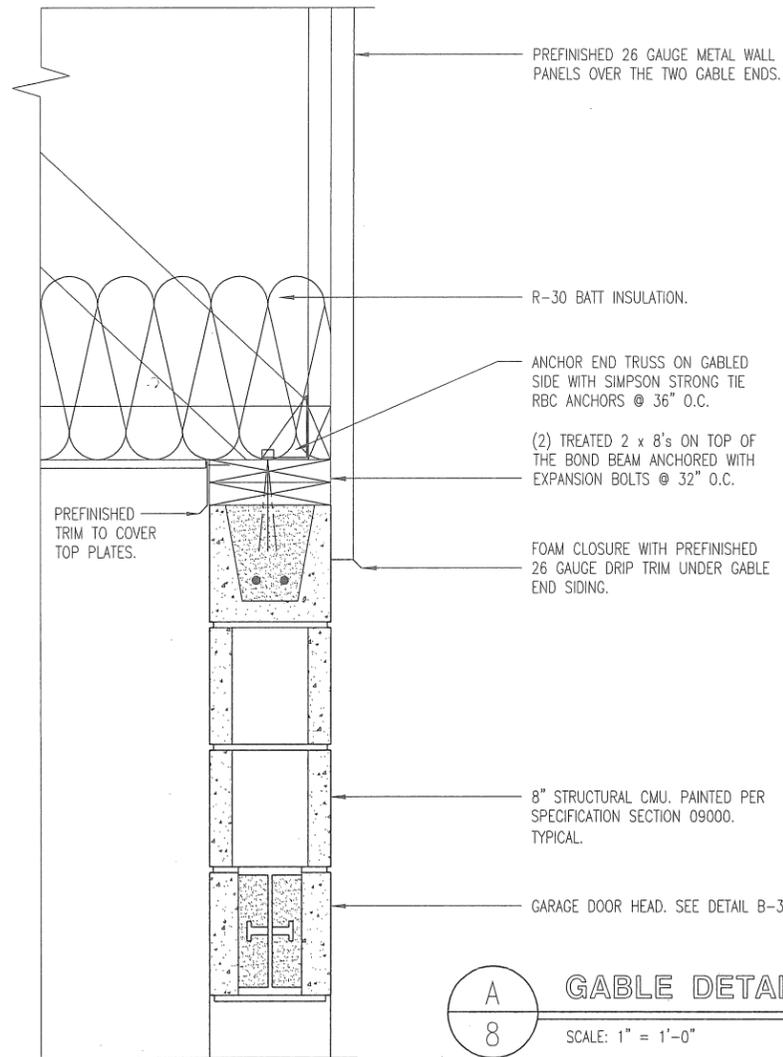
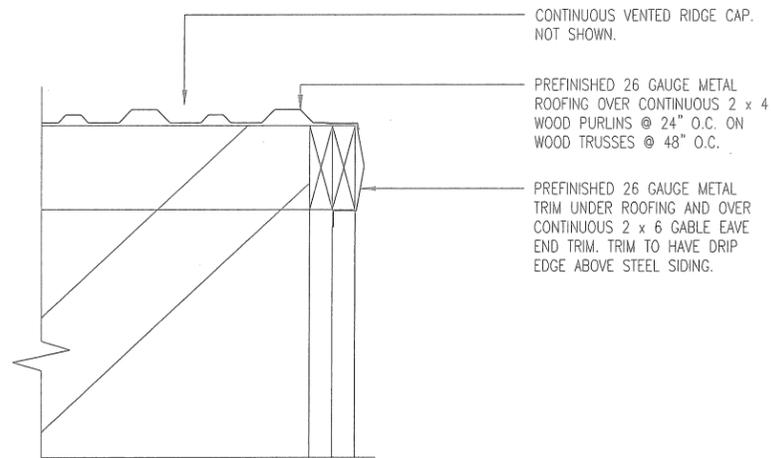
A WALL SECTION  
 7 SCALE: 1" = 1' - 0"



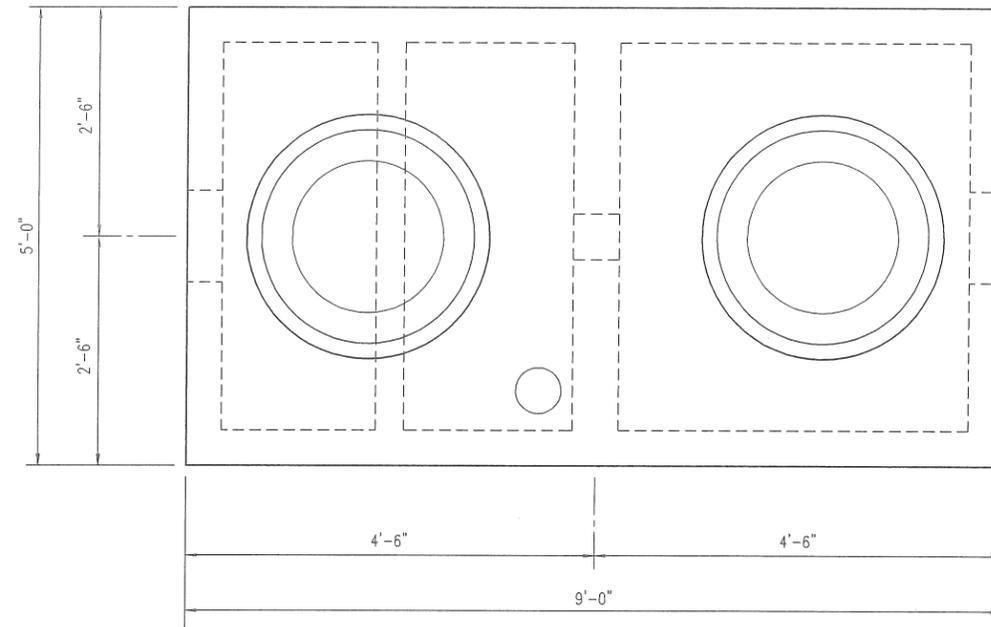
C PILASTER DETAIL  
 7 SCALE: 1" = 1' - 0"



B WALL SECTION  
 7 SCALE: 1" = 1' - 0"

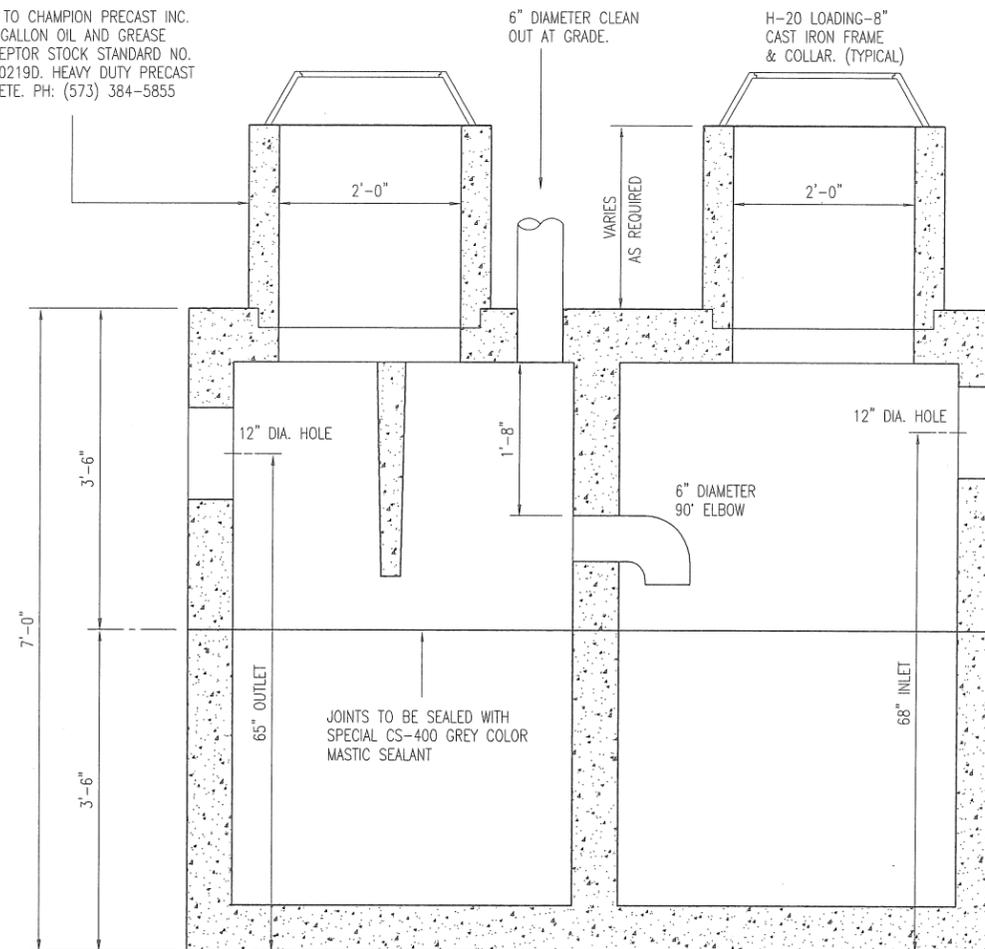


**A**  
**8** GABLE DETAIL  
SCALE: 1" = 1'-0"



PLAN VIEW

EQUAL TO CHAMPION PRECAST INC.  
1,200 GALLON OIL AND GREASE  
INTERCEPTOR STOCK STANDARD NO.  
140-00219D. HEAVY DUTY PRECAST  
CONCRETE. PH: (573) 384-5855



SECTION

**B**  
**8** 1,200 GALLON OIL SEPARATOR  
SCALE: 1/2" = 1'-0"

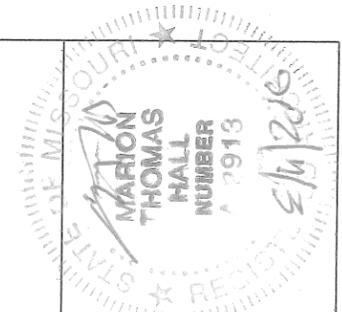


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DETAILS

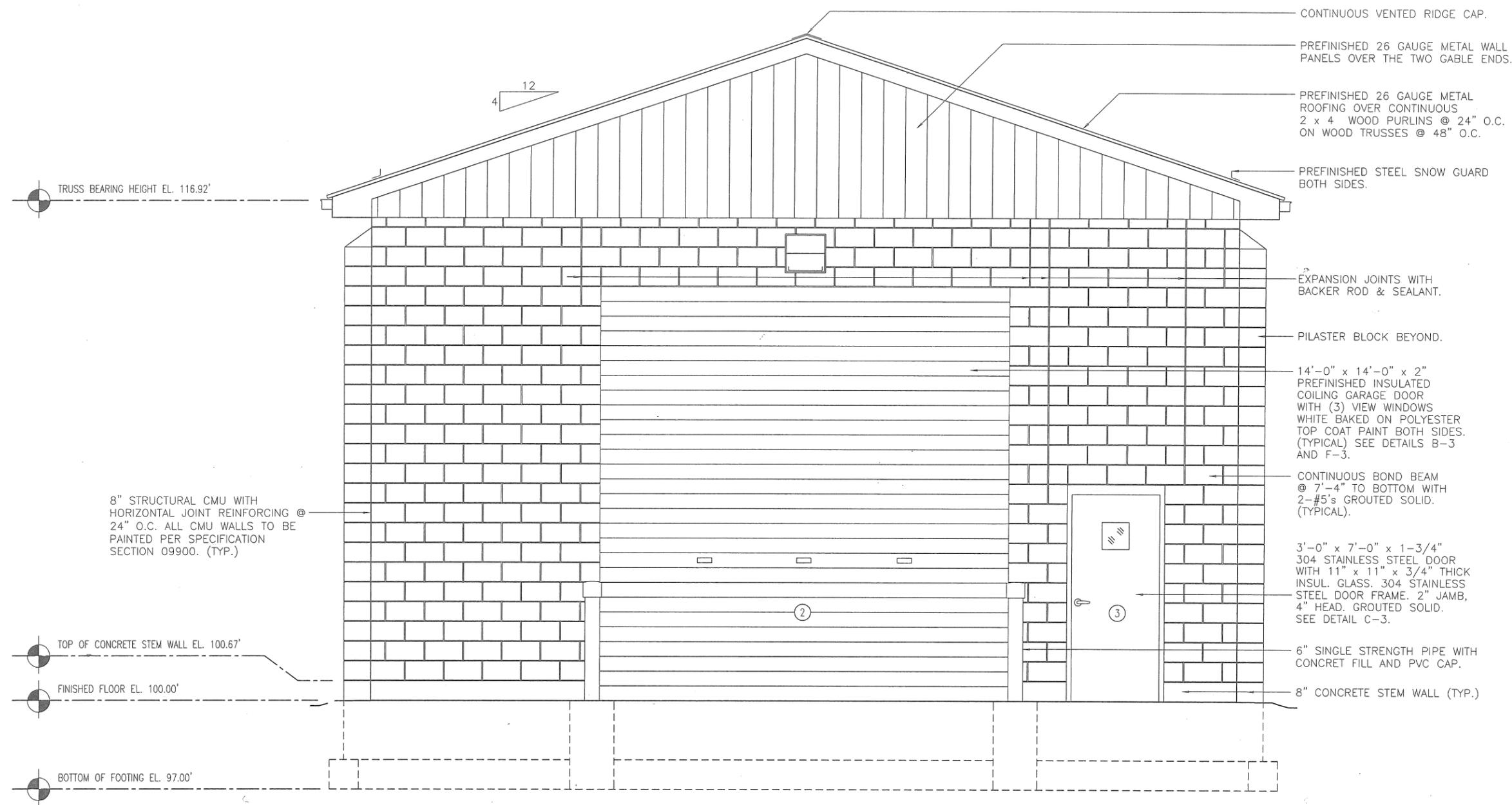


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NORTH ELEVATION



A NORTH ELEVATION  
 9 SCALE: 1/4" = 1' - 0"

SOUTH ELEVATION SIMILAR  
 WITHOUT PASSAGE DOOR.

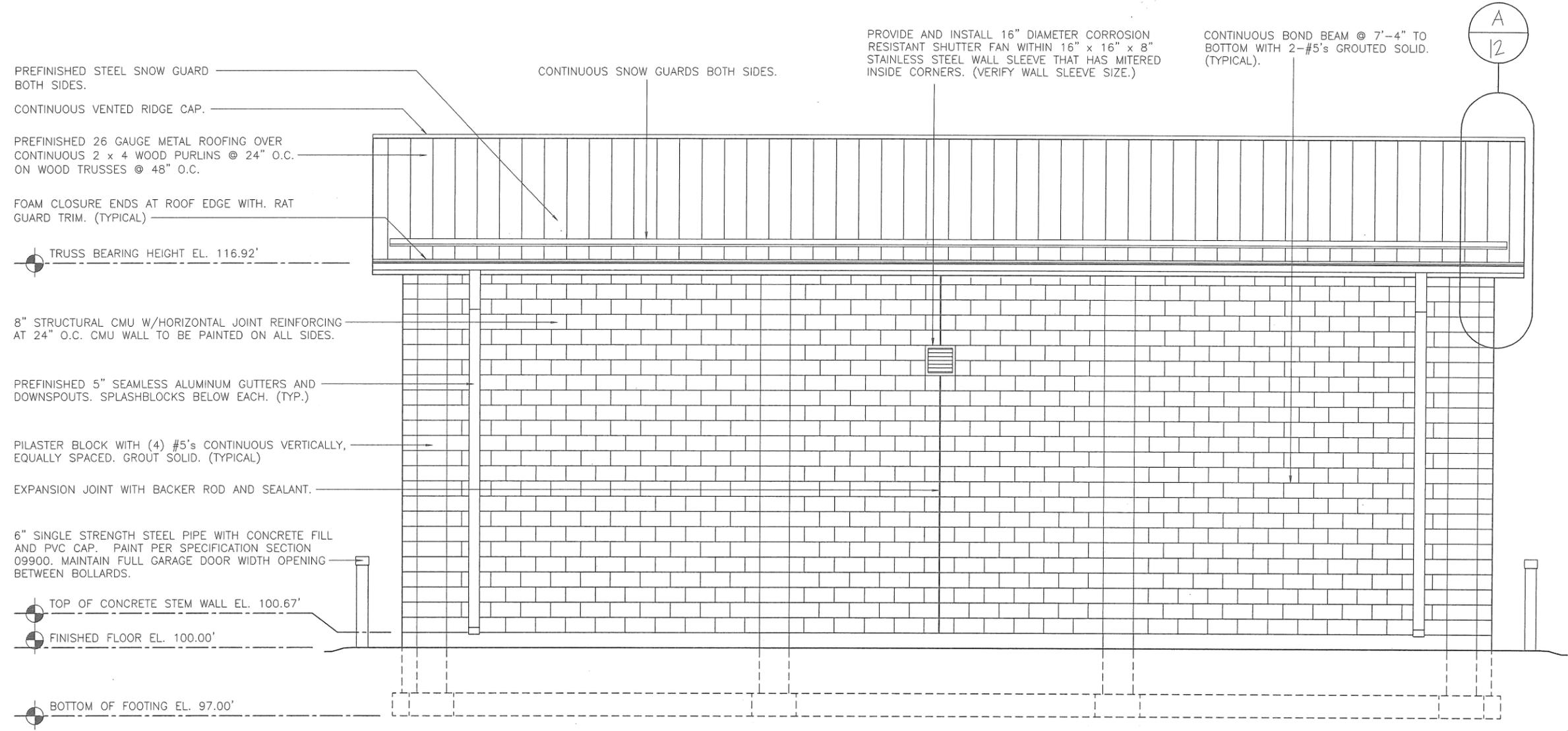


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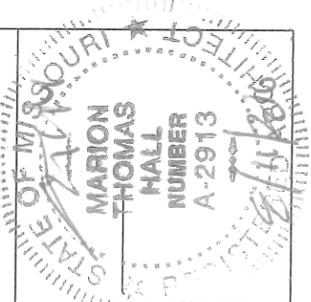
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WEST ELEVATION

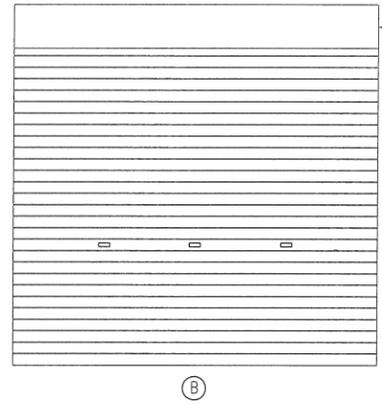
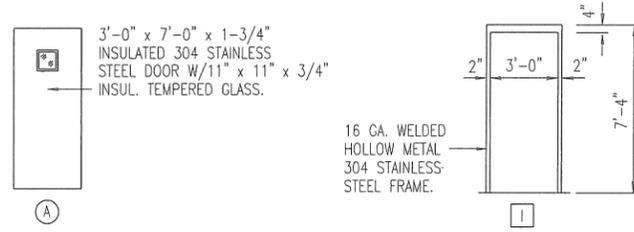


A  
 10 WEST ELEVATION  
 SCALE: 3/16" = 1' - 0"

EAST SIDE TYPICAL BUT WITH INTAKE DAMPER.



DOOR SCHEDULE							
NO.	SIZE	SWING	DR. TYPE	FRM. TYPE	DETAIL	FRM. DEPTH	HWDR. GRP.
1	14'-0" x 14'-0" x 2"	--	B	--	B & F-3	--	--
2	14'-0" x 14'-0" x 2"	--	B	--	B & F-3	--	--
3	3'-0" x 7'-0" x 1-3/4"	RHR	A	I	C-3	5-3/4"	1



COILING DOOR HOOD, MOTORIZED OPERATOR WITH A CHAIN HOIST. (PROVIDE CAR MODIFICATION KIT) PROVIDE GALVANIZED TRACK AND BIRD BRUSH.

14'-0" x 14'-0" x 2" PREFINISHED INSULATED COILING GARAGE DOOR WITH (3) VIEW WINDOWS WHITE BAKED ON POLYESTER TOP COAT PAINT BOTH SIDES. (TYPICAL)

HVAC SCHEDULE						
SYM.	UNIT	MANUFACTURER	BTU OUTPUT	FUEL	VOLTAGE	REMARKS
A	INFRARED TUBE HEATER	SUNSTAR SPS/U 150-L5 OR EQUAL	150,000	LP GAS	115	HEAVY DUTY CAST IRON BURNER. DIRECT SPARK IGNITION. STANDARD OUTSIDE COMBUSTION AIR INTAKE. SIDEWALL VENTING.
B	16" DIA. CORROSION RESISTANT SHUTTER FAN	DAYTON 1BLW1 OSHA GUARD OR EQUAL	2,005 CFM	ELECTRIC	115	FIBERGLASS SHUTTER & BLADES. 2.1 AMPS. PROVIDE 16" x 16" x 9-1/4" STAINLESS STEEL WALL SLEEVE THAT HAS MITERED INSIDE CORNERS. (VERIFY WALL SLEEVE SIZE)
C	MOTORIZED DAMPER WITH WEATHERHOOD	DAYTON MODEL 4C560 OR EQUAL 60 HERTZ	--	ELECTRIC	115	16" CENTER-PIVOTING, MOTORIZED, GALV. STEEL DAMPER. WIRE TO OPEN WHEN THE EXHAUST FAN IS TURNED ON. HOOD EQUAL TO NATIONAL FAN CO. Ph: 1-877-389-3131 16" GALVANIZED WEATHER HOOD. MODEL# NFC-CH-XF16. PROVIDE 16" x 16" x 9-1/4" STAINLESS STEEL WALL SLEEVE THAT HAS MITERED INSIDE CORNERS. (VERIFY WALL SLEEVE SIZE)
T	WATERPROOF THERMOSTAT	AS REQUIRED.	--	--	--	AS RECOMMENDED BY THE INFRARED TUBE HEATER MANUFACTURER.

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 FACILITIES MANAGEMENT

SCHEDULES

**GENERAL NOTES:**

1. CONCRETE WORK SHALL BE EXECUTED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE AMERICAN CONCRETE INSTITUTE (A.C.I.) MANUAL OF CONCRETE PRACTICE.
2. FOUNDATION DESIGN IS BASED UPON AN ASSUMED SOIL BEARING CAPACITY OF 2,000 PSF. IF WET OR UNUSUAL SOIL CONDITIONS ARE ENCOUNTERED, NOTIFY THE DESIGNER AND CONSTRUCTION INSPECTOR BEFORE PROCEEDING WITH THE WORK.
3. IF CONDITIONS REQUIRING ROCK EXCAVATION ARE ENCOUNTERED, NOTIFY THE DESIGNER AND FIELD INSPECTOR BEFORE PROCEEDING WITH THE WORK.
4. ALL CONCRETE SHALL BE TYPE I CEMENT WITH A COMPRESSIVE STRENGTH OF 4,000 PSI @ 28 DAYS WITH 4" TO 5" SLUMP.
5. CONCRETE EXPOSED TO THE EXTERIOR SHALL RECEIVE AIR ENTRAINMENT OF 6% ± 2%.
6. GRADE BEAMS AND FOOTINGS SHALL BEAR A MINIMUM OF 12" INTO UNDISTURBED SOIL AND 36" MINIMUM BELOW FINISH GRADE.
7. DEFORMED STEEL REINFORCING BARS SHALL BE #5 AND LARGER, ASTM A615 GRADE 60.
8. PROVIDE CORNER REINFORCING BARS WITH 12" MINIMUM LAP EQUAL IN SIZE AND GRADE TO CONNECTING BARS.
9. INTERIOR AND EXTERIOR CONCRETE FLATWORK SHALL HAVE A LIGHT BROOM FINISH.
10. COORDINATE WORK OF OTHER TRADES REQUIRED TO BE INSTALLED IN, UNDER, OR THROUGH CONCRETE PRIOR TO PLACEMENT OF CONCRETE. INSTALL ALL ANCHORAGES AND SLEEVES REQUIRED FOR THE INSTALLATION OF WORK BY OTHER TRADES.
11. SAWED CONTROL JOINTS SHALL BE CLEANED FREE OF ALL DEBRIS AND FILLED WITH DOW CORNING 888 SILICONE JOINT SEALANT OR AN APPROVED EQUAL. SAWCUT WITHIN 24 HOURS.
12. SEE SPECIFICATION SECTION 03300 CONCRETE FOR ADDITIONAL INFORMATION.

**PLUMBING NOTES:**

1. PLUMBING SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE IBC PLUMBING CODE.
2. PLUMBING SHALL BE LOCATED AND PLACED UNDER THE SLAB PRIOR TO POURING OF CONCRETE. PIPING SHALL BE RUN IN SAND FILLED TRENCH UNDER THE BASE ROCK AND SLEEVED WITH PVC WHENEVER RUN THROUGH CONCRETE.
3. PROVIDE PLUMBING EQUIPMENT AND ACCESSORIES REQUIRED FOR COMPLETE AND OPERATIONAL PLUMBING SYSTEMS AS REQUIRED BY MANUFACTURER'S INSTRUCTIONS AND DIRECTIONS FOR SYSTEMS SPECIFIED.
4. 3/4" YARD HYDRANT: EQUAL TO WOODFORD MODEL Y2 FREEZELESS, BACKFLOW PROTECTED, AUTOMATIC DRAINING YARD HYDRANT. PROVIDE 36" BURY LENGTH.
5. 2" YARD HYDRANT: EQUAL TO #71 NATIONAL TYPE "A" COMPRESSION HYDRANT. ANTI-FREEZING AUTOMATIC DRAIN. ALL BRONZE WITH 2" VALUE OPENING & 10" WHEEL TOP. 36" BURY LENGTH.

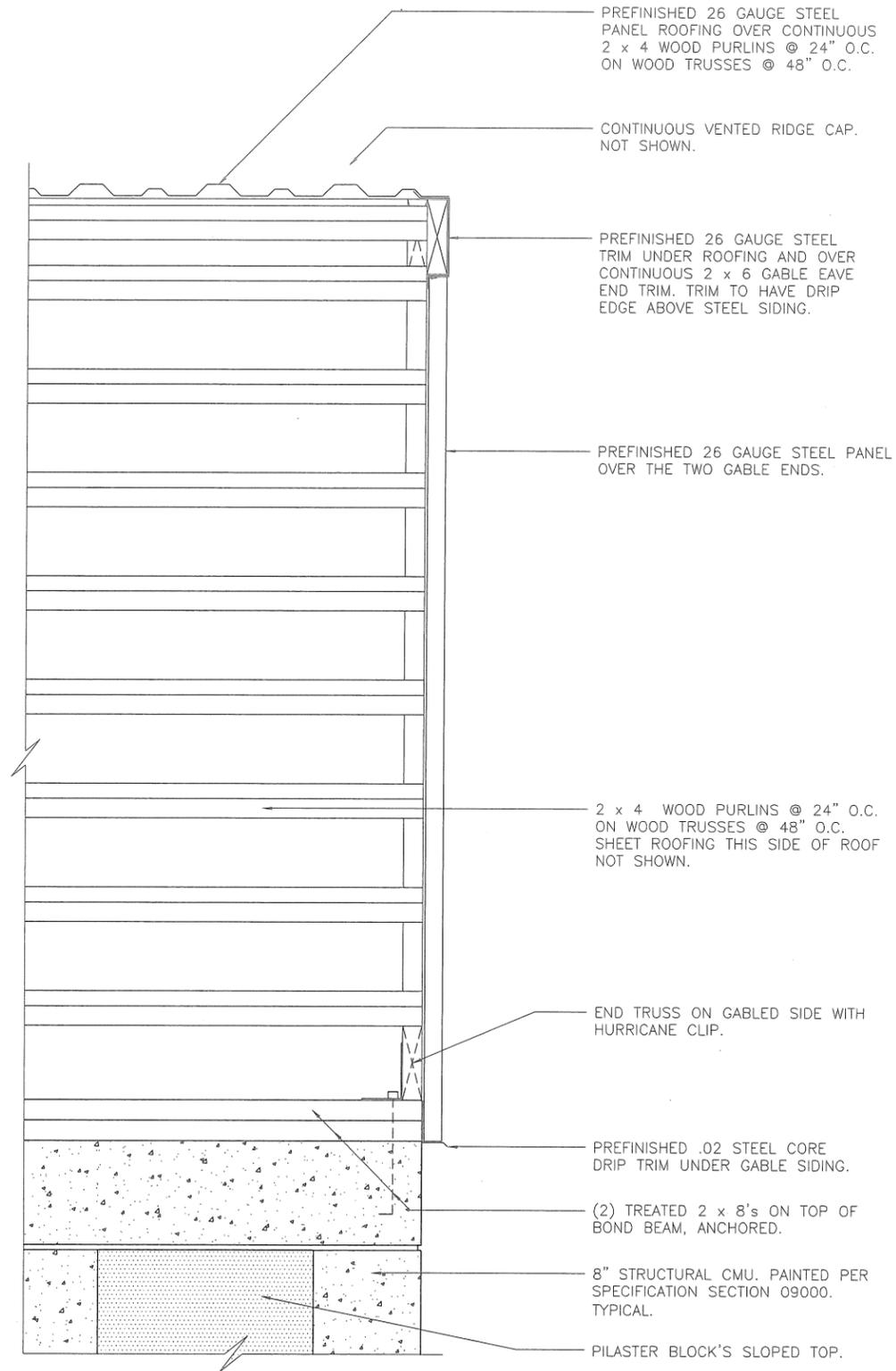
**GRADING NOTES:**

FILLING AND BACKFILLING: PLACE BACKFILL AND FILL MATERIALS IN LAYERS NOT MORE THAN 8" IN LOOSE DEPTH. BEFORE COMPACTION, MOISTEN OR AERATE EACH LAYER AS NECESSARY TO PROVIDE THE SPECIFIED MOISTURE CONTENT. COMPACT EACH LAYER TO REQUIRED PERCENTAGE OF MAXIMUM DENSITY FOR THE AREA.

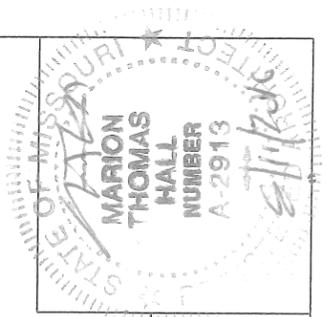
WASTE EARTH MATERIAL: STORED ON SITE. LOCATION AS DIRECTED BY OWNER.

EXCAVATION: CONTRACTOR TO SLOPE GRADE AWAY FROM NEW TRUCK WASH AS REQUIRED WITH 6" COMPACTED 1" MINUS ROCK UP TO 15'-0" OUTSIDE PERIMETER OF BUILDING AND SLABS INCLUDING ALL AREAS DISTURBED DURING CONSTRUCTION.

STAKING: STRUCTURE LOCATION STAKED BY MODOT AT MAINTENANCE SITE.



**A**  
**12** GABLE DETAIL  
SCALE: 1" = 1'-0"

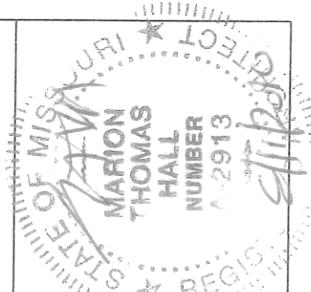


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GENERAL NOTES



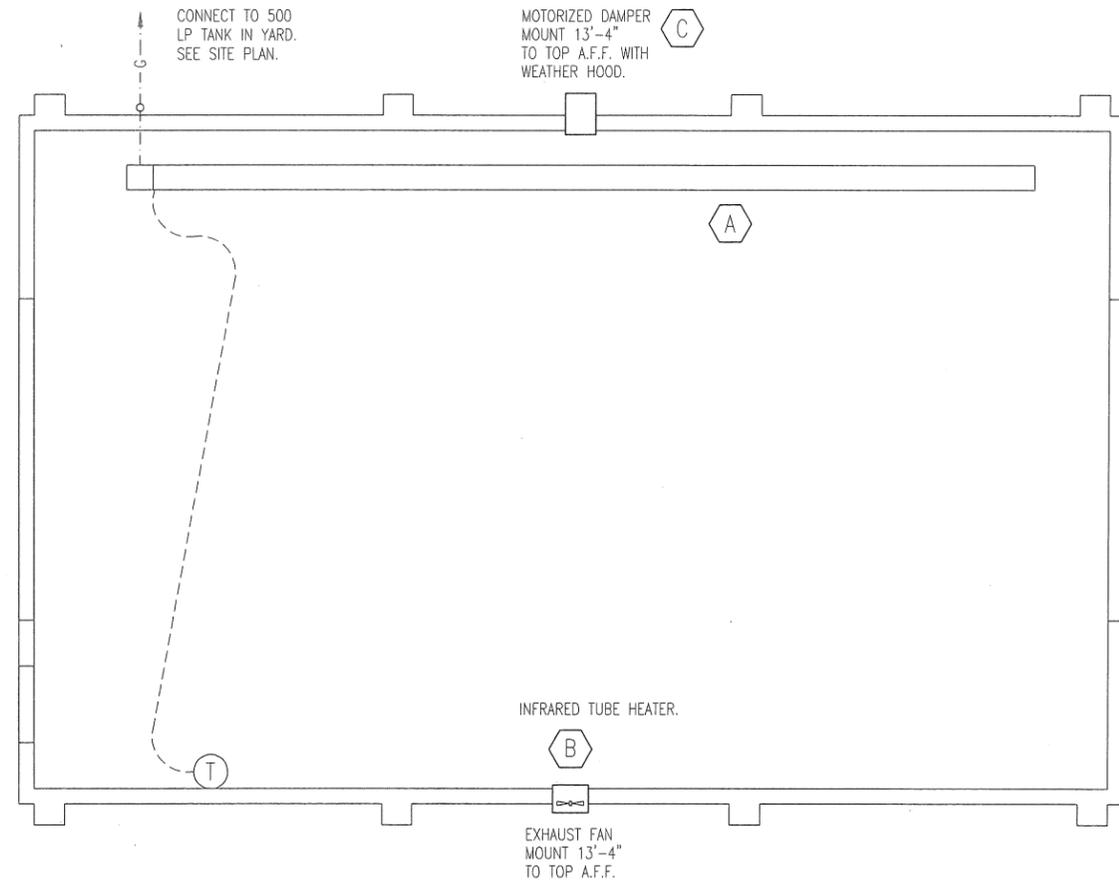
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MECHANICAL PLAN

Sheet  
 13 of 15

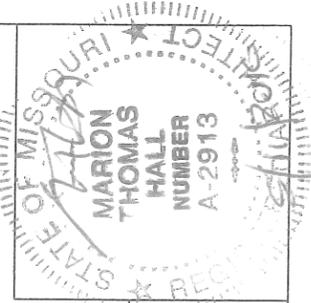


**MECHANICAL NOTES**

1. DRAWINGS AND DIAGRAMS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
2. MECHANICAL WORK SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE IBC MECHANICAL CODE.
3. PROVIDE EQUIPMENT AND APPURTENANCES NOT NECESSARILY SHOWN OR SPECIFIED BUT NEEDED FOR COMPLETE AND PROPER INSTALLATION.
4. ALL EQUIPMENT AND MATERIALS, IN PARTICULAR VALVES, FILTERS, MOTORS, AND CONTROLS SHALL BE ARRANGED TO PROVIDE PROPER CLEARANCE FOR SERVICE, MAINTENANCE, AND INSPECTION.
5. MECHANICAL SUBCONTRACTOR SHALL FULLY COORDINATE ALL WORK WITH PLUMBING AND ELECTRICAL WORKERS PRIOR TO COMMENCING OF THE MECHANICAL INSTALLATION.
6. PROVIDE BLOCKING TO HVAC DEVICES AS REQUIRED FOR A SECURE APPLICATION.
7. CONTRACTOR WORK WILL BEGIN FROM EXISTING PROPANE TANK WITH GAS LINE TO INFRARED TUBE HEATER. SIZE AS REQUIRED FOR A FUNCTIONAL SYSTEM.

SEE HVAC SCHEDULE SHEET 11.

A MECHANICAL PLAN  
 13 SCALE: 1/8" = 1' - 0" N



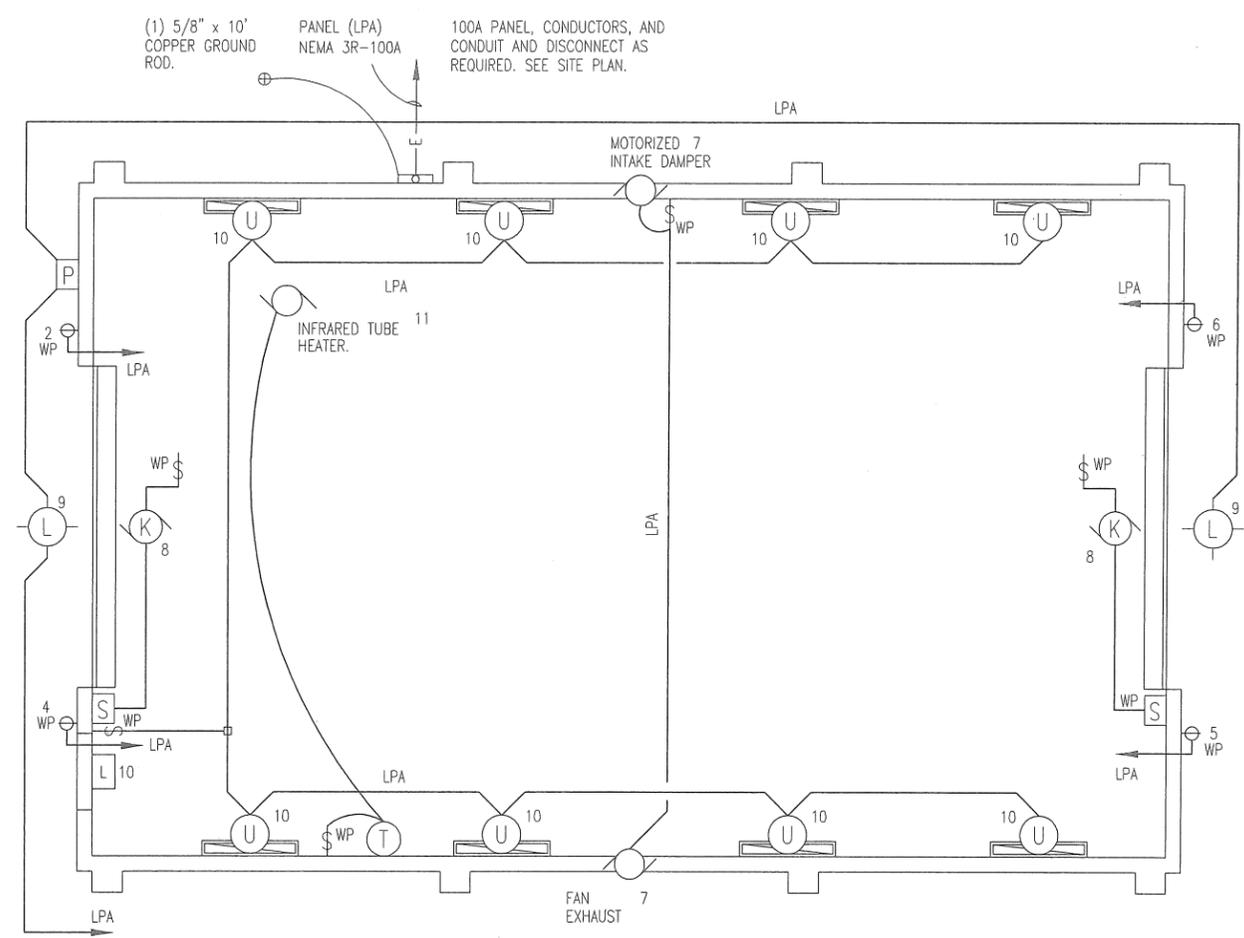
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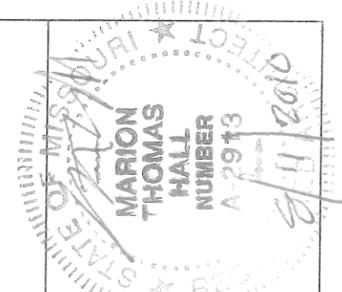
ELECTRICAL PLAN

Sheet  
 14 of 15



SEE SHEET 14 FOR ELECTRICAL  
 PANEL AND SCHEDULES.

A ELECTRICAL PLAN  
 14 SCALE: 1/8" = 1' - 0" N



DESIGN BY: LARRY CARVER  
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SERVICE PANEL LPC									
MAIN BUS: 200A MLO VOLTS: 240/120, 1PH, 3-WIRE BUS MATERIAL: COPPER MOUNTING: SURFACE			SQUARE "D" NOOD OR EQUAL W/ NEUTRAL BUS & GROUNDING BUS CIRCUIT BREAKERS BOLT-IN 10000 AIC				CONNECTED LOAD A PHASE 5982 VA B PHASE 6641 VA TOTAL 12623 VA 53 A		
CIR	SERVICE	VA	BKR	CIR	BKR	VA	SERVICE		CIR
1	SUB-PANEL FABRIC SALT STRUCTURE	1958	100A2P	A	20A1P	1000	EXTERIOR - RECEPTACLE	⊕	2
3		1958		B	20A1P	1000	EXTERIOR - RECEPTACLE	⊕	4
5	EXTERIOR - RECEPTACLE	1000	20A1P	A	20A1P	1000	EXTERIOR - RECEPTACLE	⊕	6
7	EXHAUST FAN AND DAMPER	1221	20A1P	B	30A1P	2162	OHD OPENERS		8
9	EXTERIOR LIGHTS	434	20A1P	A	20A1P	590	BAY LIGHTING		10
11	INFRARED TUBE HEATER	300	20A1P	B	20A1P	-	SPARE		12
13									14
15									16
17									18
19									20

⊕ CIRCUIT BREAKER SHALL BE GFI RATED

ELECTRIC SCHEDULE						
MANUF.	MODEL	#	LAMP TYPES	W	MOUNT	REMARKS
Ⓚ	OVERHEAD DOOR OPERATOR				WALL	115V, 1-PH, HOOD MOUNT TYPE COMMERCIAL IN CARWASH & TROLLEY TYPE IN MAINTENANCE. SEE SPECIFICATION SECTION 08720.
LITHONIA	TWR1LED 1 40K MVOLT		LED	33	WALL	EXTERIOR, SURFACE MOUNT LIGHT FIXTURE, WITH ALUMINUM HOUSING. PRISMATIC GLASS LENS.
LITHONIA	SERIES LQM LQM-SW-3R-120/277 ELN				CLG	QUANTUM SERIES EXIT LIGHT WITH WHITE THERMOPLASTIC HOUSING & UNIVERSAL MOUNT.
TORK	2001				WALL	120V PHOTO ELECTRIC CONTROL OF EXTERIOR LIGHTS.
Ⓢ	OVERHEAD DOOR CONTROL WATERPROOF				WALL	THREE BUTTON OVERHEAD DOOR CONTROL AS SUPPLIED BY OVERHEAD DOOR MANUF. SEE SPECIFICATION SECTION 08720.
WILLIAMS	96-4-L62/840-HIAFR- WET/2-DRV-120		LED	73	WALL	FILLY GASKETED POLYCARBONATE TOGGLE LATCHES, FROSTED IMPACT-RESISTANT ACRYLIC LENS. MOUNT 7'-6" A.F.F. TO BOTTOM.

ELECTRICAL FIXTURES AND EQUIPMENT ARE SCHEDULED BY MANUFACTURER AND MODEL NUMBER FOR DESIGN INTENT ONLY, APPROVED EQUALS MAY BE SUBSTITUTED.

### LEGEND

- Ⓢ WP SINGLE POLE SWITCH, MOUNT 48" A.F.F. IN FS BOX WITH HUBBELL HBL 7420 COVER.
- Ⓚ WP SINGLE RECEPTACLE MOUNTED IN FS BOX WITH HUBBELL HBL7423 COVER.

### ELECTRICAL NOTES:

1. DRAWINGS AND DIAGRAMS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR THE DIMENSIONS.
2. ELECTRICAL WORK SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (N.E.C.)
3. PROVIDE ELECTRICAL EQUIPMENT AND ACCESSORIES REQUIRED FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM REQUIRED BY MANUFACTURER'S INSTRUCTIONS AND DIRECTIONS FOR SYSTEMS SPECIFIED.
4. SWITCHES AND RECEPTACLES SHALL BE EQUAL TO THE AMPERE SHOWN IN THE PANEL SCHEDULE. RECEPTACLES SHALL BE GROUND FAULT INTERRUPTION WHERE SHOWN OR AS REQUIRED BY CODE.
5. SEE HVAC SCHEDULE FOR EQUIPMENT SYMBOLS AND EQUIPMENT TO BE HARD WIRED.
6. CONTRACTOR SHALL PROVIDE SERVICE DISCONNECTS AS REQUIRED ON EXTERIOR OF NEW BUILDING.
7. PROVIDE BLOCKING FOR ELECTRICAL DEVICES AS REQUIRED FOR A SECURE APPLICATION.
8. SEE SPECIFICATION SECTION 16100 - ELECTRICAL FOR ADDITIONAL REQUIREMENTS.
9. COORDINATE WORK WITH OTHER TRADES PRIOR TO COMMENCING WITH ELECTRICAL WORK.
10. CONDUCTOR AND BREAKER SIZE MAY VARY PER MANUFACTURER SHOWN ON THE EQUIPMENT SPECIFIED. ELECTRICAL CONTRACTOR TO VERIFY SIZES WITH EXACT EQUIPMENT ORDERED PRIOR TO PURCHASING ELECTRICAL SUPPLIES.
11. ALL EXPOSED CONDUIT, BOXES, CONNECTORS, ETC. IN THE WASH BAY TO BE IN SCHEDULE 40 PVC. CONTRACTOR TO VERIFY THE DIAMETERS OF CONDUIT AS REQUIRED.
12. GROUP CIRCUITS IN CONDUIT WHERE FEASIBLE AS REQUIRED.
13. PROVIDE CONDUIT, CONDUCTORS, BOXES, CONNECTORS, ETC. FROM AN EXISTING 100KVA AS REQUIRED FOR A FUNCTIONAL SYSTEM. CONTRACTOR TO PROVIDE A FUSIBLE DISCONNECT ON THE NEW TRUCK WASH BUILDING. SIZE AS REQUIRED.

Concrete Block Truck Wash  
Central District  
Linn, Missouri

MISSOURI DEPARTMENT  
OF TRANSPORTATION  
DIVISION OF GENERAL SERVICES  
FACILITIES MANAGEMENT

Electrical Panel & Schedules