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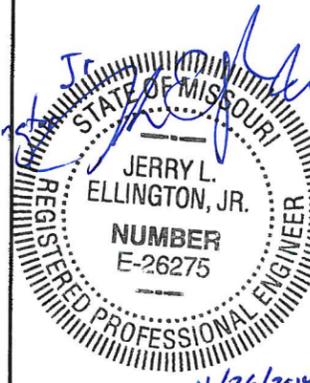
MISSOURI DEPARTMENT OF TRANSPORTATION

CANTON
 Mechanics Bay & Cold Storage Building
 Northeast District
 17365 Highway 81, Canton, MO 63435
 Lewis County

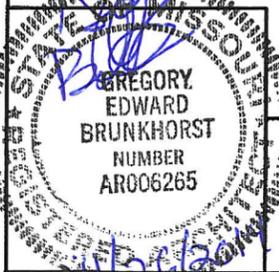
CODE REQUIREMENTS

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

Jerry L. Ellington
 PE - 26275



Michelle Leigh Smith
 PE-028700



Gregory E. Brunkhorst
 AR006265

COVER SHEET

MISSOURI DEPARTMENT
 OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
 FACILITIES MANAGEMENT

CANTON
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 Northeast District - Lewis County

DESIGN BY: LARRY CARVER
 DATE: 11-25-14
 Sheet
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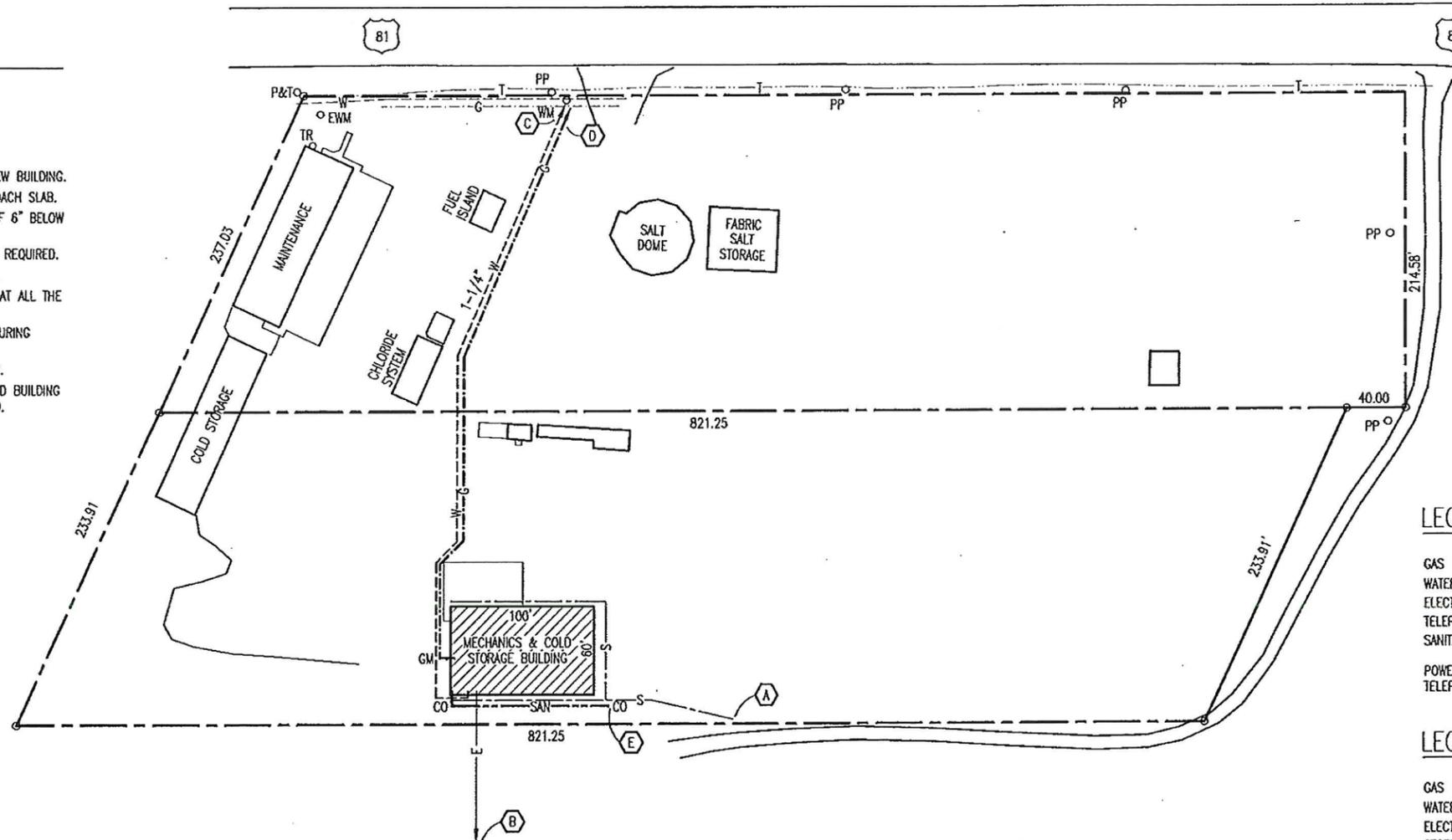
SITE NOTES

- A** RUN STORM SEWER TO DAYLIGHT. CONTRACTOR TO PROVIDE 20'-0" LONG x 5'-0" x 12" DEEP RIP-RAP. SEE FLOOR PLAN FOR STORM SCHEDULE 35 PVC SIZE(S).
- B** CONTRACTOR TO MAKE 1-PHASE CONNECTION FOR AN OPERABLE ELECTRICAL SERVICE AT POWER POLE APPROXIMATELY 100'± WEST OF NEW BUILDING. PROVIDE METER AS/IF REQUIRED ON POLE OR BUILDING WITH CONDUCTORS IN CONDUIT. PROVIDE SERVICE DISCONNECT ON OUTSIDE OF NEW BUILDING.
- C** CONTRACTOR TO MAKE CONNECTION AS REQUIRED FOR NEW 1-1/4" WATER SERVICE IN NEW METER PIT NEAR R/W OF HIGHWAY 81. NEW WATER LINE TO THE NEW BUILDING TO BE SCHEDULE 80. SEE DETAIL C-19.
- D** CONTRACTOR TO MAKE CONNECTION AS REQUIRED FOR AN OPERABLE NATURAL GAS SERVICE INTO NEW BUILDING.
- E** CONTRACTOR TO INSTALL 3" SANITARY SEWER. CAP 10'-0" BEYOND SOUTHWESTERN CORNER OF NEW BUILDING. VERIFY SLOPE. SANITARY DRAIN FIELD BY OTHERS.

GRADING NOTES:

CONTRACTOR WILL BE RESPONSIBLE FOR:

- EXCAVATION OF THE SUB GRADE.
- EXCAVATING OF FOOTINGS.
- ALL BACK FILL MATERIAL INSIDE AND OUTSIDE NEW BUILDING.
- CRUSHED ROCK BASE UNDER BUILDING & APPROACH SLAB.
- BACK FILL ALONG APPROACH SLAB A MINIMUM OF 6" BELOW TOP OF SLAB AND SIDEWALK.
- ALL FILL, BACK FILL & SUB GRADE MATERIAL AS REQUIRED.
- FINISHED GRADE TO DRAIN AWAY FROM BUILDING.
- PROVIDE TOP SOIL, FERTILIZE, SEED AND STRAW AT ALL THE LAWN AREAS DISTURBED DURING CONSTRUCTION.
- PROVIDE FINISHED GRADE MATERIAL DISTURBED DURING CONSTRUCTION TO MATCH EXISTING.
- VERIFY UTILITY LOCATIONS BEFORE CONSTRUCTION.
- MDDOT TO HAVE THE FOUR CORNERS STAKED AND BUILDING FOOTPRINT & EXTERIOR APPROACH SLAB LEVELLED.



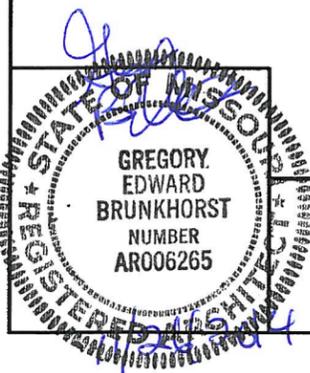
LEGEND (EXISTING)

- GAS ----- G -----
- WATER ----- W -----
- ELECTRIC 1 PHASE ----- E -----
- TELEPHONE ----- T -----
- SANITARY SEWER ----- SAN -----
- POWER POLE - PP
- POWER & TELEPHONE POLE - P&T
- TELEPHONE RISER - TR
- EXISTING WATER METER - EWM

LEGEND (NEW)

- GAS ----- G -----
- WATER ----- W -----
- ELECTRIC 1 PHASE ----- E -----
- STORM SEWER ----- S -----
- SANITARY SEWER ----- SAN -----
- WATER METER - WM
- GAS METER - GM
- CLEAN OUT - CO

A
2 SITE PLAN
SCALE: 1" = 100'-0"

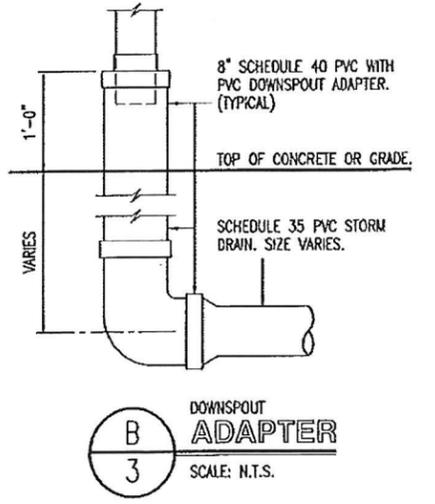
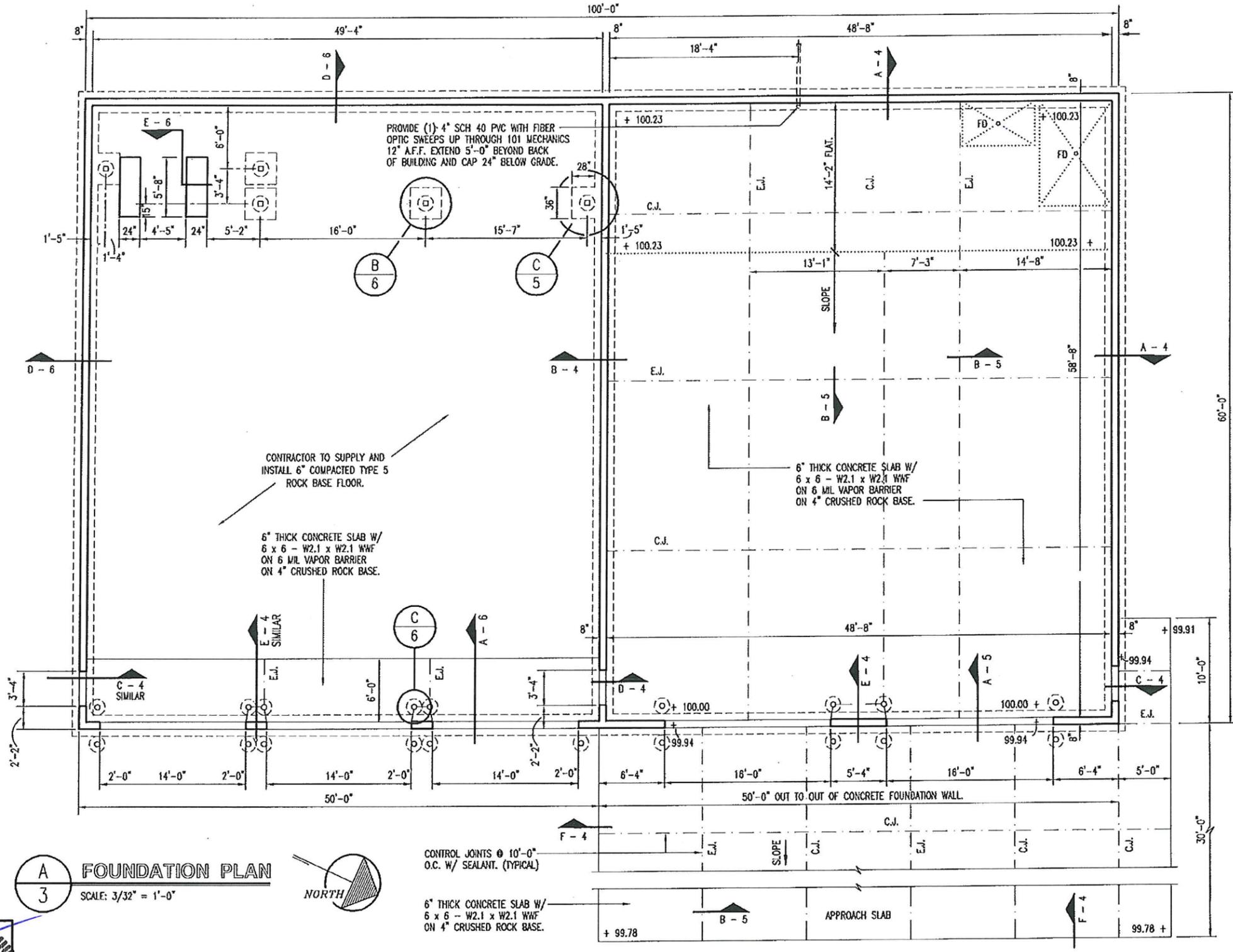


Gregory E. Brunkhorst
ARO06265
SITE PLAN

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FACILITIES MANAGEMENT

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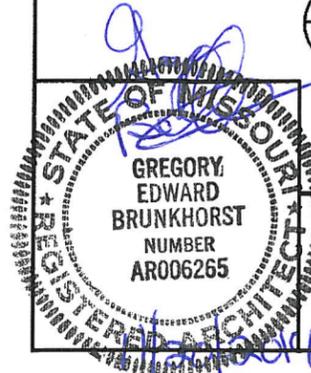
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A
3 FOUNDATION PLAN
SCALE: 3/32" = 1'-0"
NORTH

CONTROL JOINTS @ 10'-0"
O.C. W/ SEALANT. (TYPICAL)

6" THICK CONCRETE SLAB W/
6 x 6 - W2.1 x W2.1 WWF
ON 4" CRUSHED ROCK BASE.

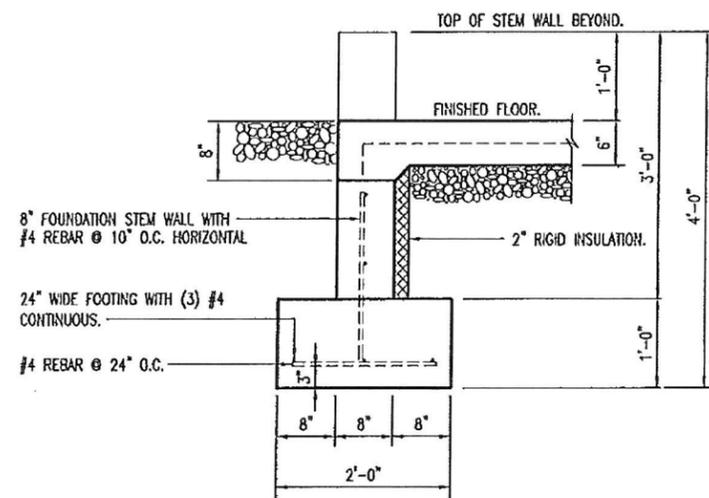


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AR006265 FOUNDATION PLAN

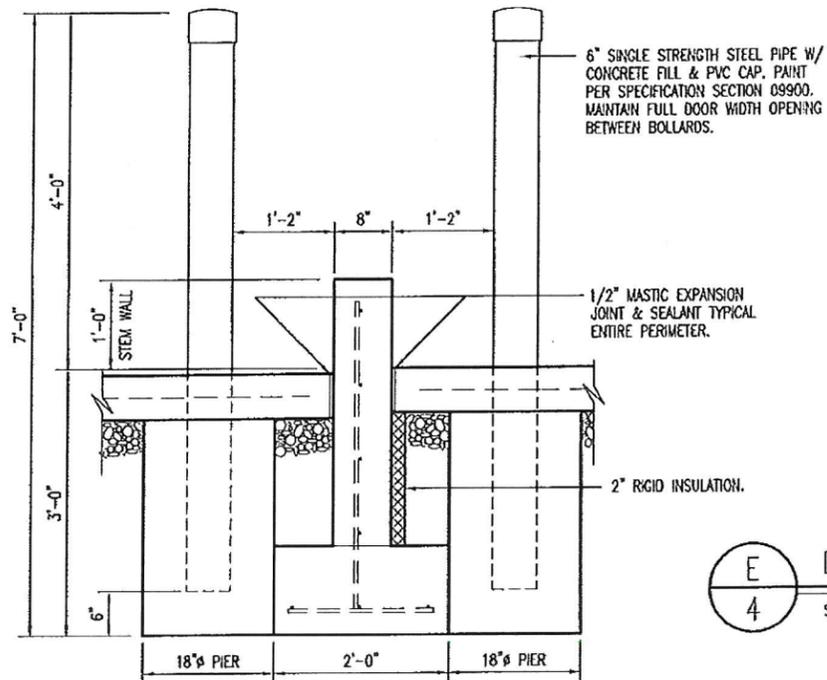
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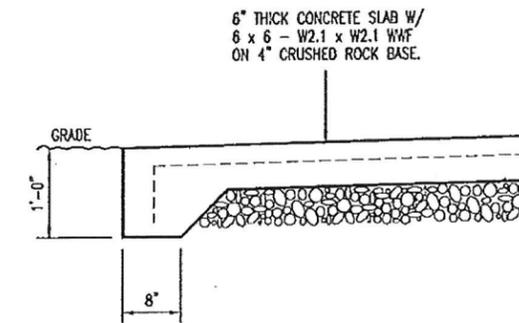
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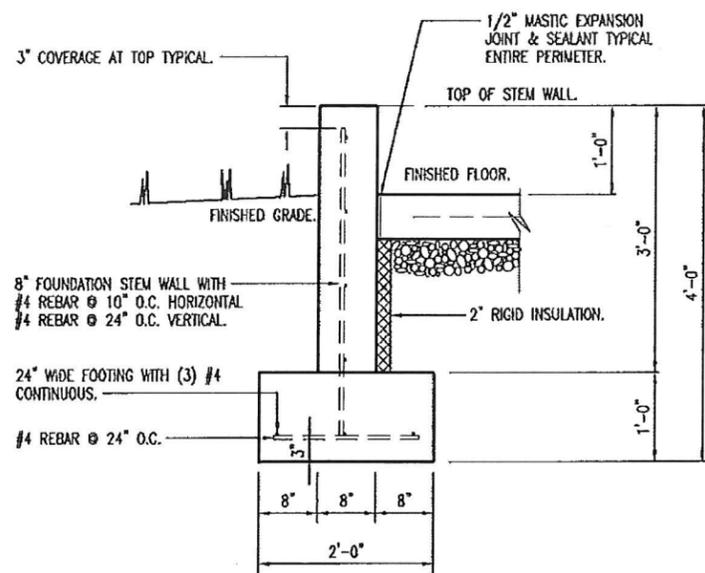
D
4
PASSAGE DOOR
EXTERIOR STEM WALL
SCALE: 1/2" = 1'-0"



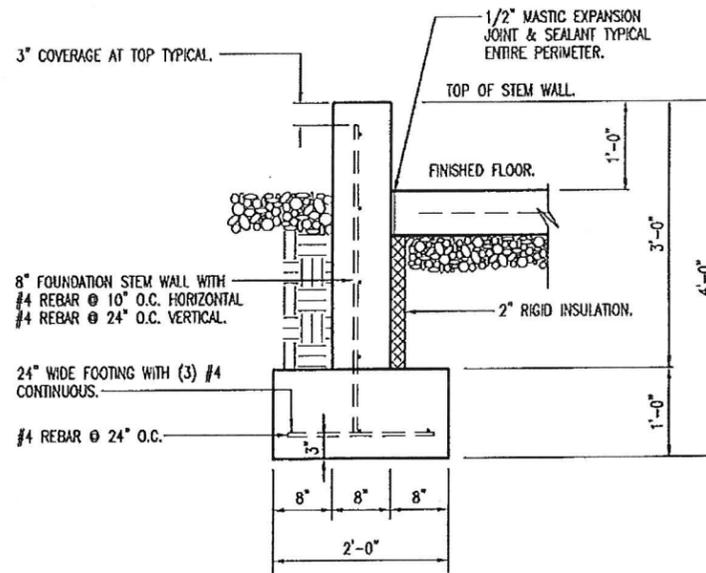
E
4
BOLLARD @ FOOTING DETAIL
SCALE: 1/2" = 1'-0"



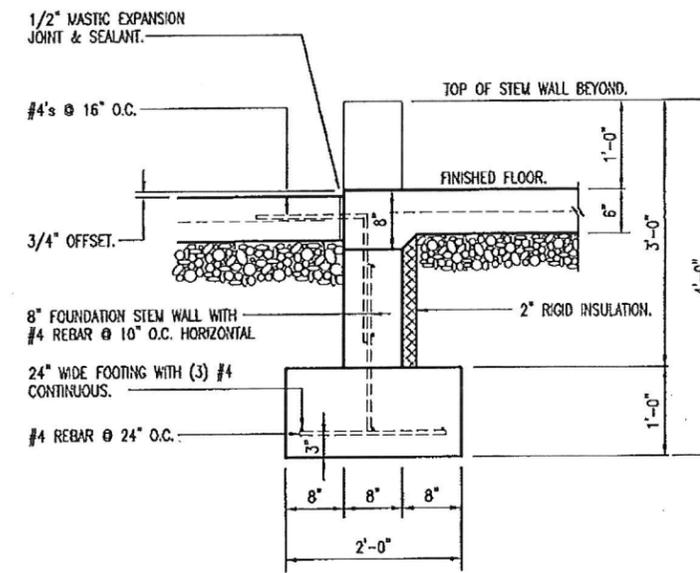
F
4
SIDEWALK SECTION
SCALE: 1/2" = 1'-0"



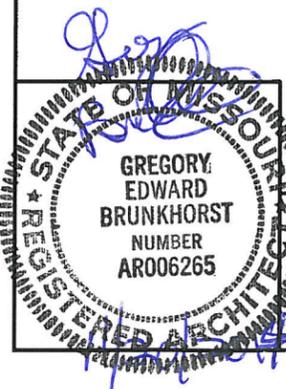
A
4
STEM WALL
SCALE: 1/2" = 1'-0"



B
4
STEM WALL
SCALE: 1/2" = 1'-0"



C
4
EXTERIOR STEM WALL @ DOOR
SCALE: 1/2" = 1'-0"



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FOUNDATION DETAILS

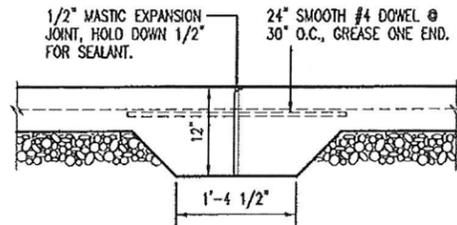
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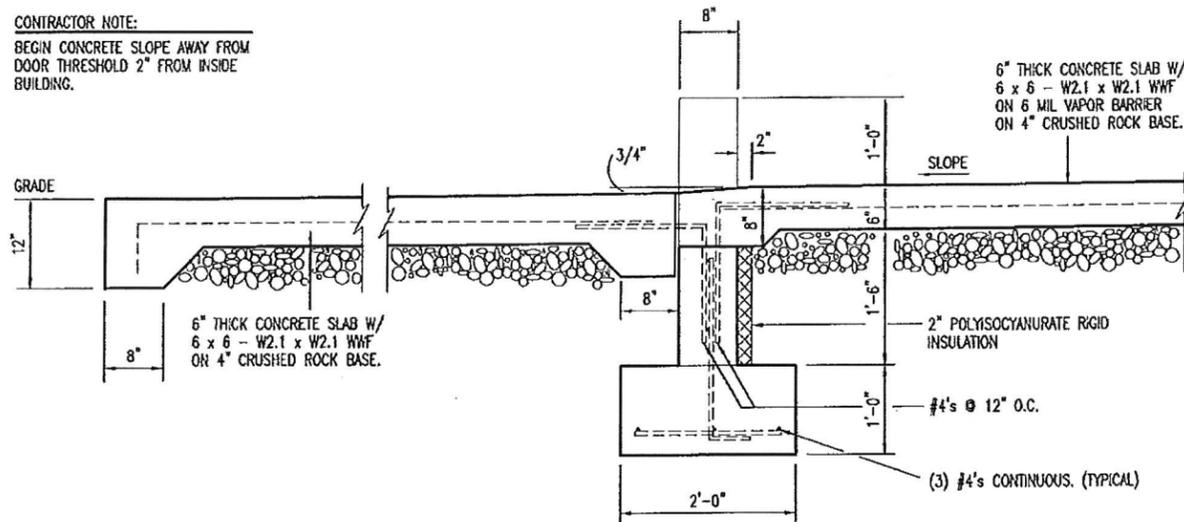
CONCRETE NOTES

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 CONSTRUCTION INSPECTOR BEFORE PROCEEDING WITH THE WORK.
4. ALL CONCRETE SHALL BE TYPE 1 CEMENT WITH A COMPRESSIVE STRENGTH OF 4,000 PSI @ 28 DAYS WITH 4" TO 5" SLUMP.
5. FOUNDATION PIERS AND FOOTINGS SHALL BEAR A MINIMUM OF 12 INCHES INTO UNDISTURBED SOIL AND 36 INCHES MINIMUM BELOW FINISH GRADE.
6. DEFORMED STEEL REINFORCING BARS SHALL BE: #4 AND LARGER ASTM A615 GRADE 60.
7. SEE SPECIFICATION SECTION 03300 CONCRETE FOR ADDITIONAL INFORMATION.
8. CONCRETE EXPOSED TO THE EXTERIOR SHALL RECEIVE AIR ENTRAINMENT 6% +/- 2%.
9. PROVIDE CORNER REINFORCING BARS WITH 12" MINIMUM LAP EQUAL IN SIZE AND GRADE TO CONNECTING BARS.
10. EXTERIOR CONCRETE FLATWORK SHALL HAVE A LIGHT BROOM FINISH.
11. 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.
12. ENTIRE PERIMETER OF BUILDING TO RECEIVE 2" POLYSOCYANURATE RIGID INSULATION BOARD.
13. SAWED CONTROL JOINTS SHALL BE CLEANED FREE OF ALL DEBRIS AND FILLED WITH SEALANT. SEE SECTION 07900.
14. ALL EXPOSED INTERIOR CONCRETE FLOORS SHALL RECEIVE A CURING/SEALING FINISH PER SPECIFICATION SECTION 03346.
15. COPPER PIPING RUN THROUGH CONCRETE WORK SHALL BE RUN THROUGH PVC SLEEVES.

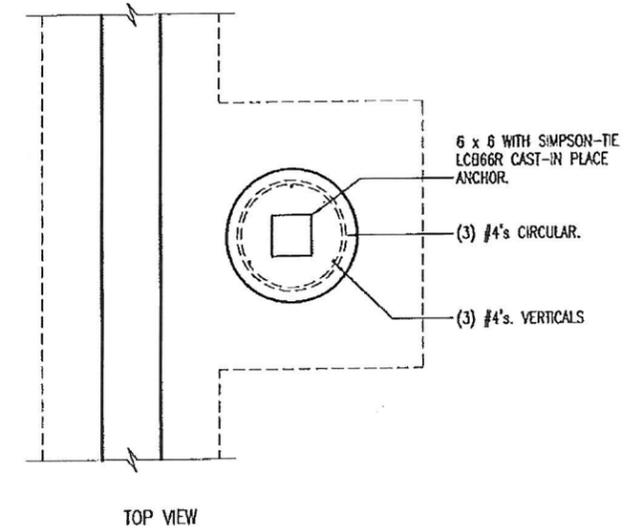


B EXPANSION JOINT
5 SCALE: 1/2" = 1'-0"

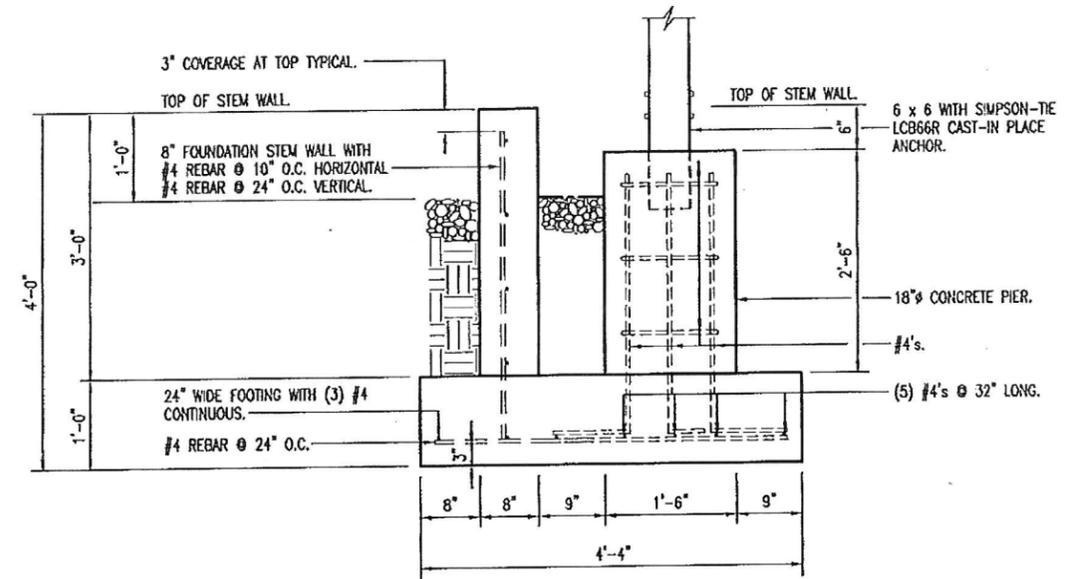
CONTRACTOR NOTE:
BEGIN CONCRETE SLOPE AWAY FROM DOOR THRESHOLD 2" FROM INSIDE BUILDING.



A APPROACH APRON
5 SCALE: 1/2" = 1'-0"



TOP VIEW



C STEM WALL
5 SCALE: 1/2" = 1'-0"

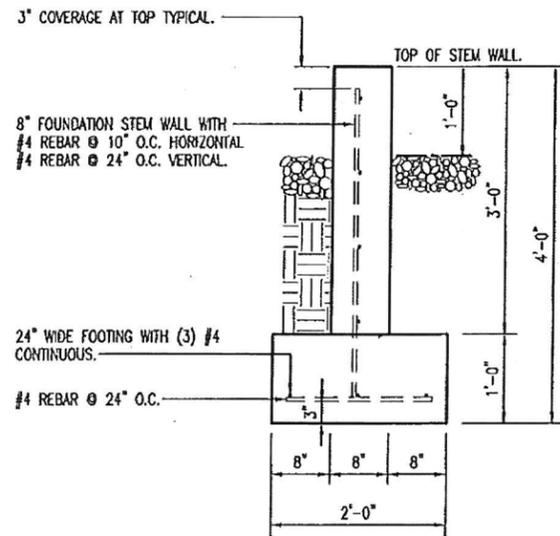


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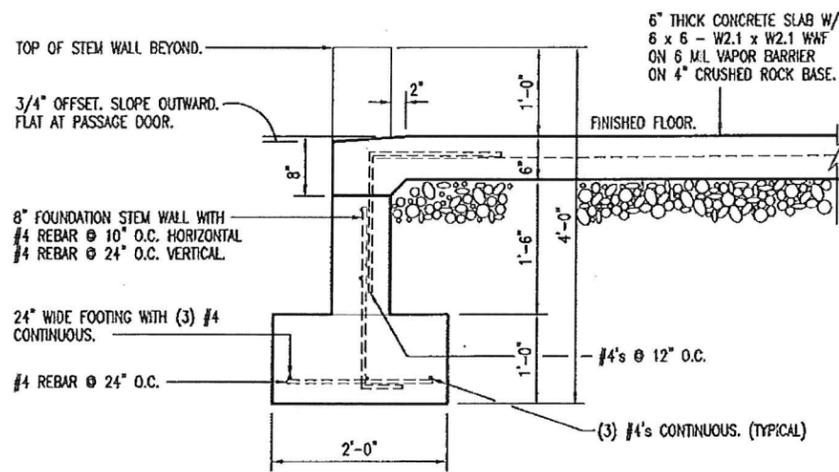
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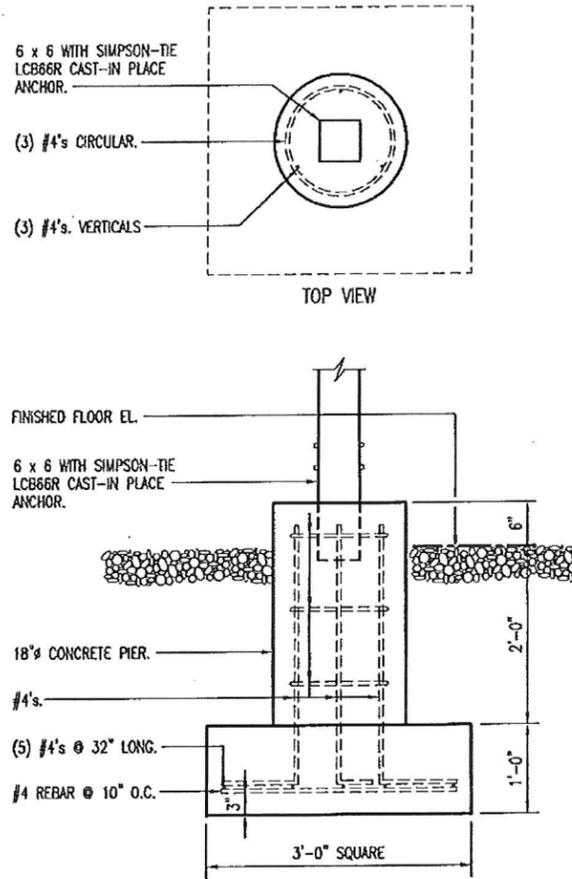
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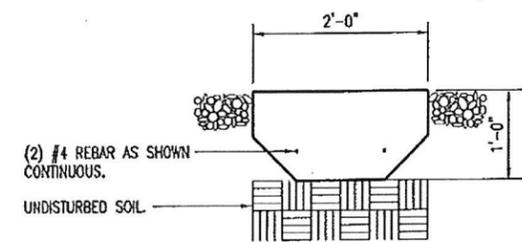
D
STEM WALL
SCALE: 1/2" = 1'-0"



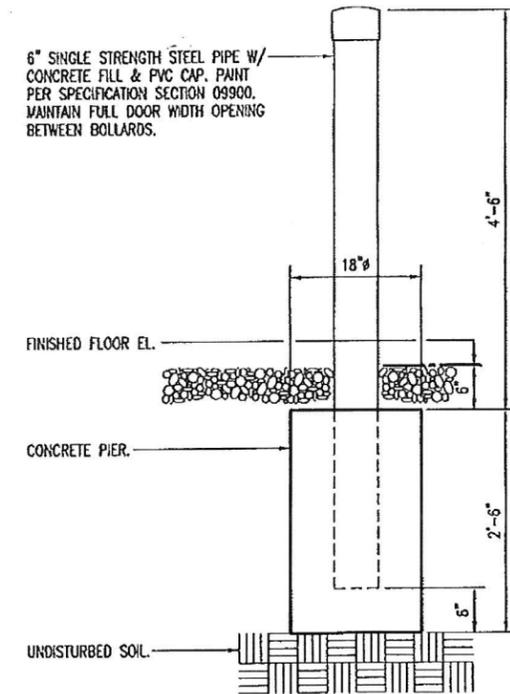
A
105 COLD STORAGE THRESHOLD
EXTERIOR STEM WALL
SCALE: 1/2" = 1'-0"



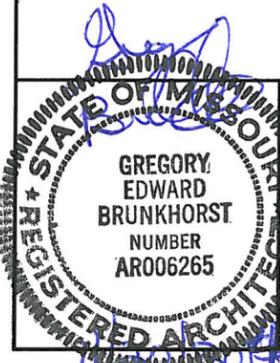
B
3 TOTAL
PIER DETAIL
SCALE: 1/2" = 1'-0"



E
STAIR POST AND STRINGER - PROVIDE TWO.
FOUNDATION DETAIL
SCALE: 1/2" = 1'-0"



C
105 COLD STORAGE - 11 TOTAL
BOLLARD ELEVATION
SCALE: 1/2" = 1'-0"



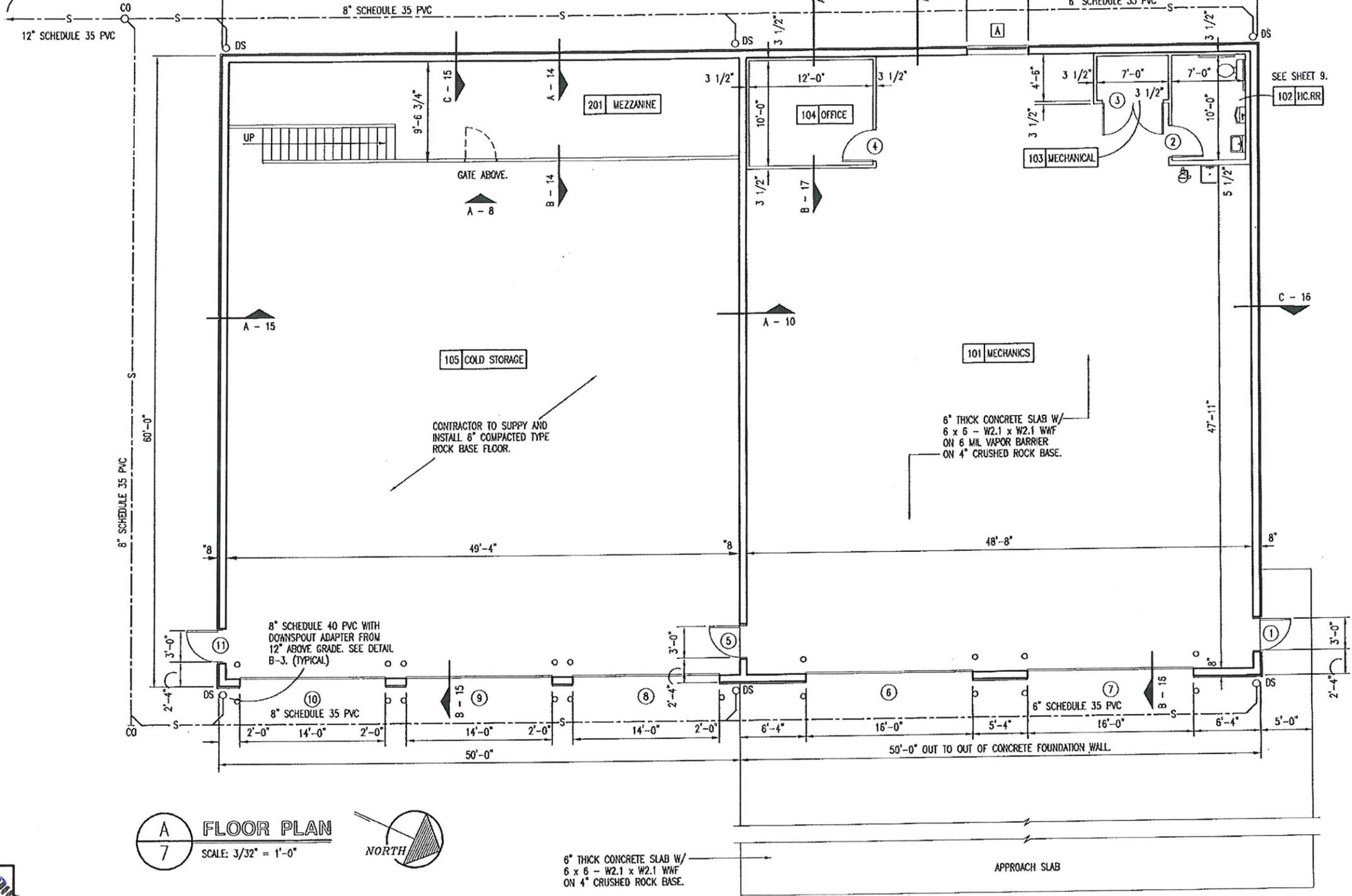
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11/20/2015 FOUNDATION DETAILS

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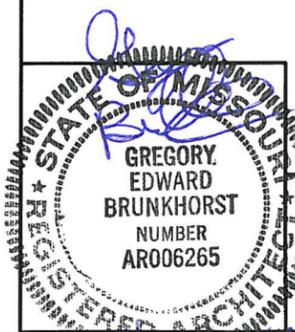
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SEE SITE PLAN. CONTRACTOR TO PROVIDE 20'-0" LONG x 5'-0" x 12" DEEP RIP-RAP.



A FLOOR PLAN
 SCALE: 3/32" = 1'-0"
 NORTH

6" THICK CONCRETE SLAB W/
 6 x 6 - W2.1 x W2.1 WWF
 ON 4" CRUSHED ROCK BASE.



Gregory E. Brunkhorst
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FLOOR PLAN

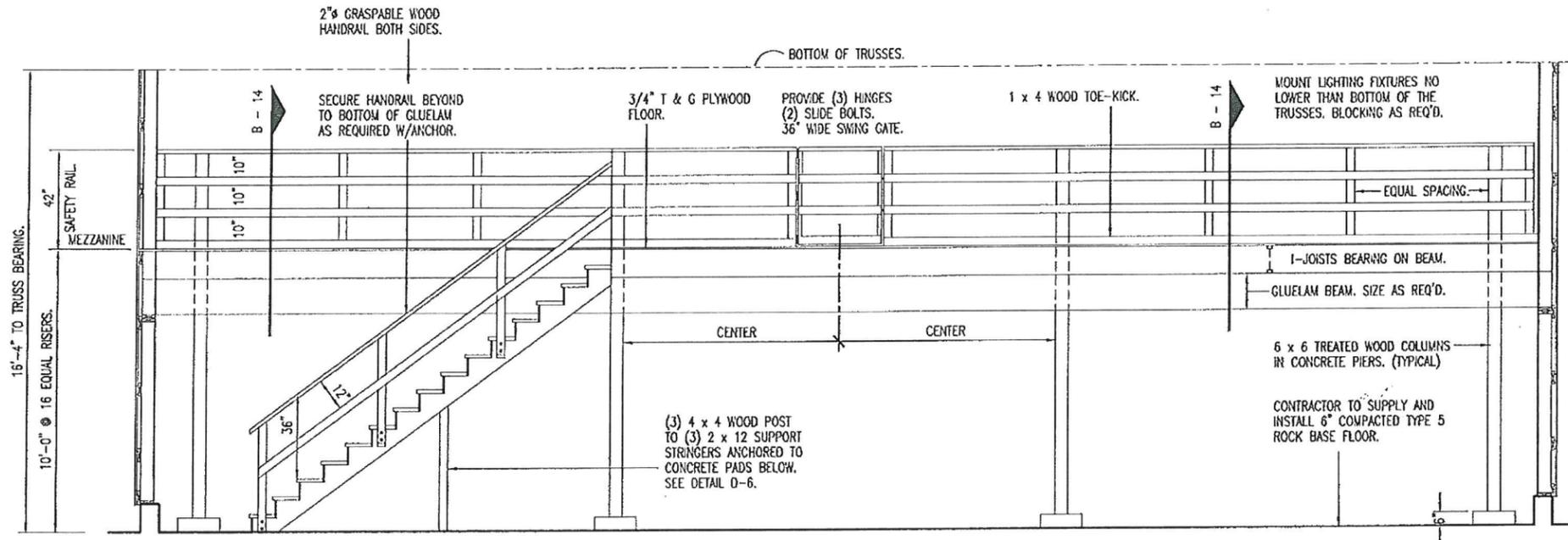
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STAIR SYSTEM:

(3) 2 x 12 STRINGERS.
 2 x 12 STAIR TREADS WITH 1" OVERHANG.
 4 x 4 VERTICAL HAND RAIL POSTS BOTH SIDES. ANCHORED TO STRINGER.
 2 x 4 MID-RAIL & TOP RAIL. 1/2" AC PLYWOOD RISERS. NOF PAINTED.

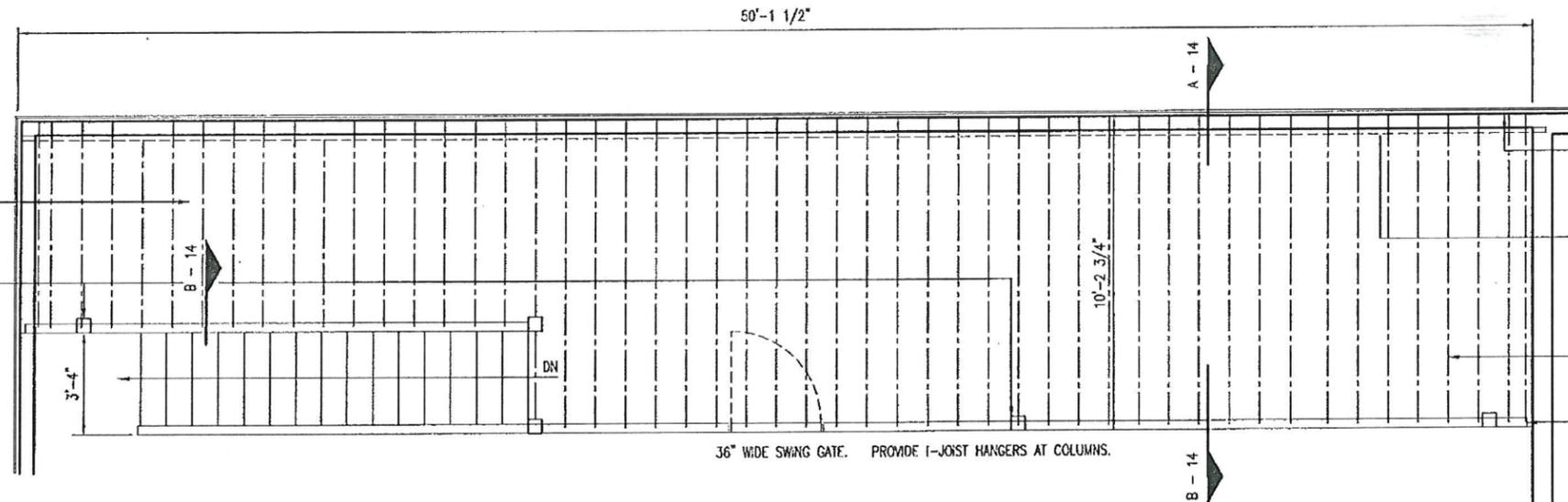


ELEVATION

MEZZANINE TO SUPPORT 125 LBS. PER SQUARE FOOT LIVE LOAD.

3/4" TONGUE AND GROOVE PLYWOOD GLUE & SCREW. FLOOR FLUSH WITH THE INTERIOR FACE OF EXTERIOR WALL PANEL.

1-JOIST BEAR ON THE GLUELAM BEAM THAT IS RESTING ON NOTCH(ES) IN 6 x 6 TREATED WOOD COLUMNS.



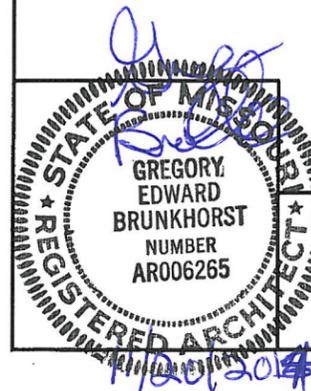
1-JOIST CANTILEVER OVER TOP OF THE GLUELAM BEAM & FLUSH WITH INTERIOR FACE OF 26 GA. EXTERIOR WALL PANEL.

GLUELAM BEAM MOUNTED TO THE FRONT OF STUD WALL FOR BEARING OF 1-JOIST. STAGER LAG BOLTS @ 16" O.C.

WOOD FLOOR TRUSSES: WIDE FLANGE 1-JOISTS EQUAL TO GEORGIA-PACIFIC 60 SERIES 11-7/8" HEIGHT @ 12" O.C. (TYPICAL)

STOP 42" TALL 2 x 4 SAFETY RAIL 2" SHORT OF THE FINISHED WALL EACH END. (TYPICAL)

A
8 MEZZANINE PLAN
 SCALE: 3/16" = 1'-0"

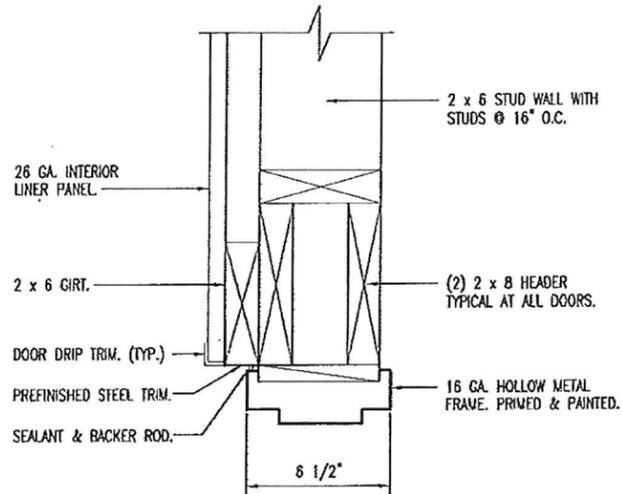


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MEZZANINE PLAN

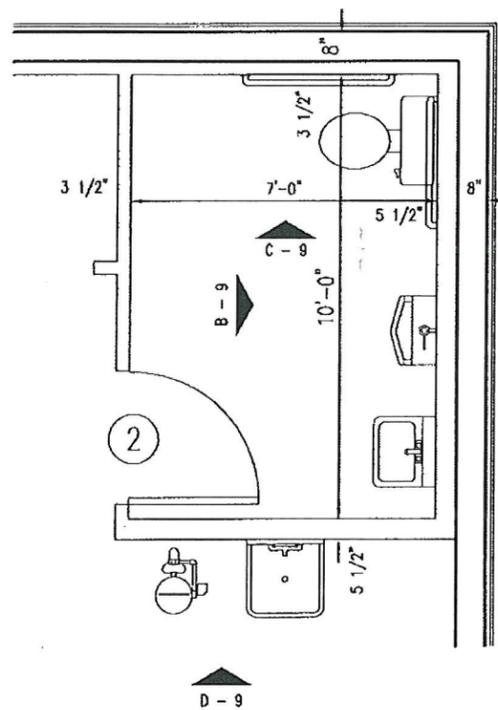
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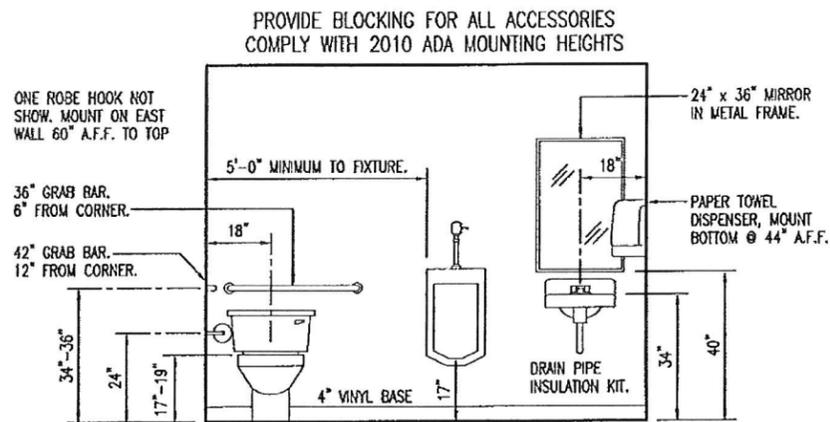
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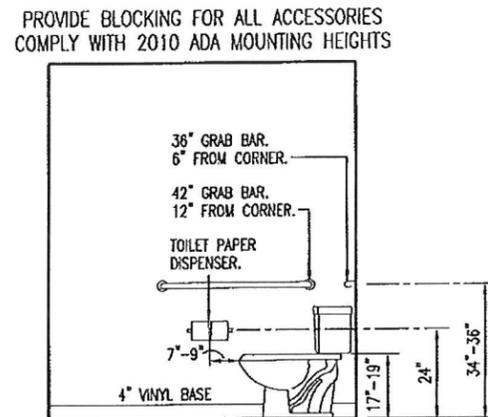
E
9
DOOR HEADER/JAMB
SCALE: 1-1/2" = 1'-0"



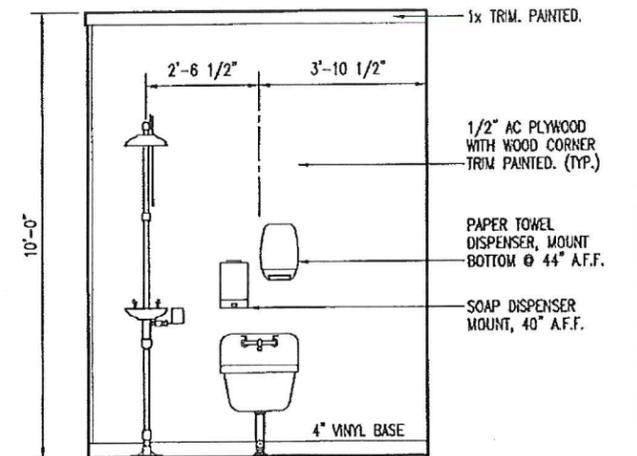
A
9
ADA REST ROOM
SCALE: 1/4" = 1'-0"



B
9
REST ROOM ELEVATION
SCALE: 1/4" = 1'-0"



C
9
REST ROOM ELEVATION
SCALE: 1/4" = 1'-0"



D
9
FIXTURE ELEVATION
SCALE: 1/4" = 1'-0"



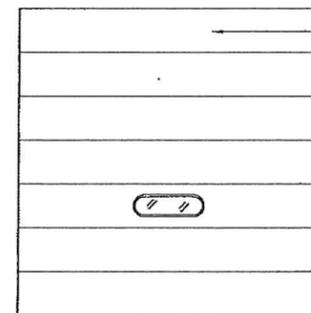
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AR006265 REST ROOM PLAN

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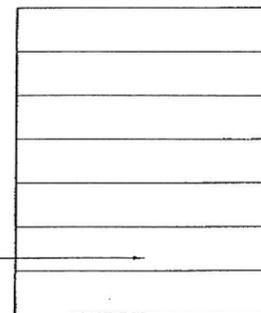
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DOOR SCHEDULE							
NO.	SIZE	SWING	DR. TYPE	FRM. TYPE	DETAIL	DEPTH	HWDR. GRP.
1	3'-0" x 7'-0" x 1-3/4"	RHR	H	II	C-13	6-1/2"	1
2	3'-0" x 7'-0" x 1-3/4"	RH	B	I	E-13	6-1/2"	2
3	(2) 3'-0" x 7'-0" x 1-3/4"	RHR	E	III	E-13	6-1/2"	3
4	3'-0" x 7'-0" x 1-3/4"	LH	D	I	E-13	6-1/2"	4
5	3'-0" x 7'-0" x 1-3/4"	LHR	C	I	D-13	6-1/2"	5
6	16'-0" x 14'-0" x 2"	-	F	-	A & B-13	-	-
7	16'-0" x 14'-0" x 2"	-	F	-	A & B-13	-	-
8	14'-0" x 14'-0" x 2"	-	G	-	G & H-13	-	-
9	14'-0" x 14'-0" x 2"	-	G	-	G & H-13	-	-
10	14'-0" x 14'-0" x 2"	-	G	-	G & H-13	-	-
11	3'-0" x 7'-0" x 1-3/4"	LHR	H	I	E-9	6-1/2"	6



16'-0" x 14'-0" x 2" THICK, R-17.5, INSULATED PREFINISHED .016" METAL GARAGE DOOR WITH ONE INSULATED GLASS VIEW WINDOW. 26 GA. STEEL BACK COVER, WHITE BAKED ON POLYESTER TOP COAT PAINT ON BOTH SIDES. (TYPICAL)

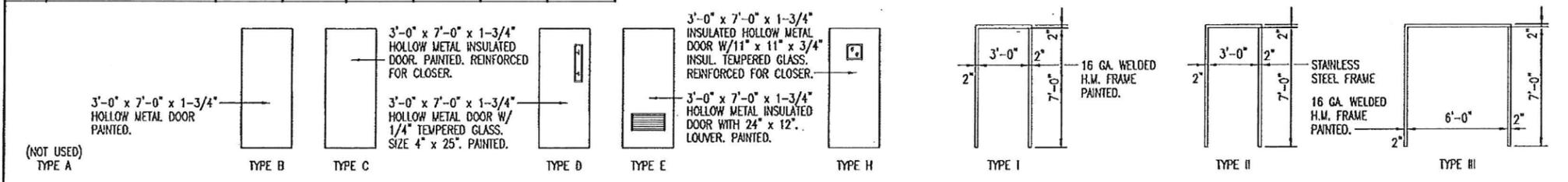
TYPE F



14'-0" x 14'-0" x 2" THICK UNINSULATED 20 GAUGE RIBBED STEEL OVERHEAD GARAGE DOOR WITH 2" TRACK.

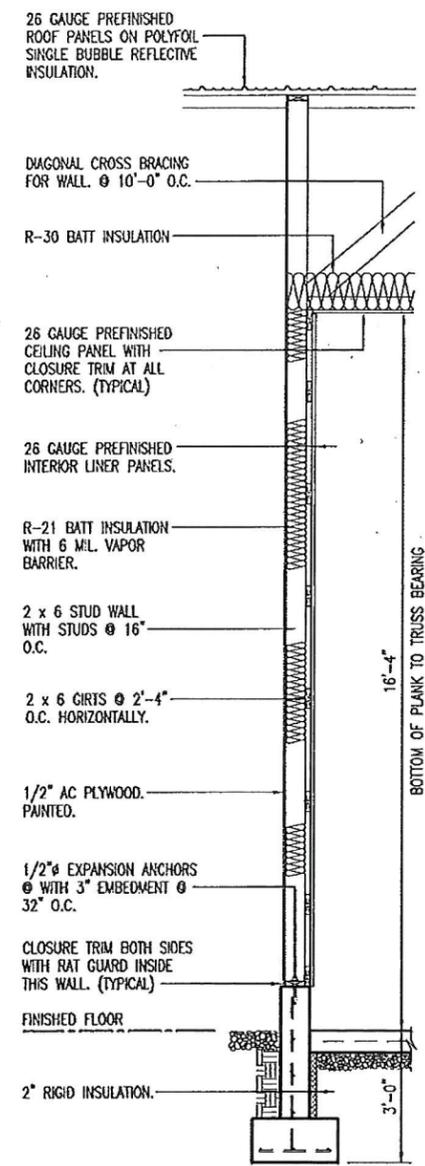
TYPE G

WINDOW SCHEDULE	
	SEE DETAIL F-13.
6'-0" x 3'-0" ALUMINUM DOUBLE HORIZONTAL SLIDER WITH SECURITY SCREEN.	SILL HEIGHT: 48" A.F.F.



FINISH SCHEDULE															
NO.	ROOM	FLOOR	WALLS					BASE	CEILING						
		3/4" T & G PLYWOOD. CURE AND SEALER ON CONCRETE.	6" COMPACTED TYPE 5 ROCK.	26 GA. EXTERIOR PANELS.	26 GA. INTERIOR PANELS.	1/2" AC PLYWOOD ON EXTERIOR OF OFFICE RR OR MECHANICAL.	5/8" GYPSUM BOARD.	5/8" GREEN GYP. BD. PAINTED.	PAINTED ON PLYWOOD.	4" VINYL.	4" VINYL ON EXTERIOR OF OFFICE RR OR MECHANICAL.	NONE	26 GA. CEILING PANELS.	NONE	ACOUSTICAL CEILING TILE @ 8'-0" A.F.F.
101	MECHANICS	•		•	•	•			•	•	•	•			
102	HANDICAPPED REST ROOM	•							•	•	•				•
103	MECHANICAL	•							•	•	•				•
104	OFFICE	•							•	•	•				•
105	COLD STORAGE	•													•
201	MEZZANINE														•

HVAC SCHEDULE						
SYM.	UNIT	MANUFACTURER	BTU OUTPUT	FUEL	VOLTAGE	REMARKS
A	24" x 24" SHUTTER MOUNT EXHAUST FAN WITH WEATHERHOOD	J & D MANUFACTURING #VES24, 4.8 AMPS	3,860 CFM	ELECTRIC	115	COMMERCIAL TYPE DIRECT DRIVE, VARIABLE SPEED, OSHA GUARD, SHUTTER, WEATHERHOOD #VFT140858, WALL MOUNT VARIABLE SPEED CONTROLLER #CH15 @ 15 AMPS. ONE CONTROLLER OPERATES BOTH FANS.
B	MOTORIZED DAMPER WITH WEATHERHOOD	DAYTON MODEL 3C228 & 1WBW1 OR EQUAL .37 AMPS	-	ELECTRIC	115	30" MEDIUM GRADE, MOTORIZED, GALVANIZED STEEL DAMPER WITH 1HP MOTOR. WIRE TO OPEN WHEN EXHAUST FAN IS TURNED ON.
C	GAS FIRED UNIT HEATER	REZNOR MODEL UDAP 225 OR EQUAL	186,750	NATURAL GAS	115	SINGLE BURNER COMBUSTION, DIRECT SPARK IGNITION, 100% LOCK-OUT & CL-1 STANDARD HEATING ONLY THERMOSTAT.
D	SHUTTER-MOUNT EXHAUST FAN	DAYTON MODEL 1HK19 & 6HKV6 COVER OR EQUAL	140 CFM	ELECTRIC	115	7" DIAMETER PROPELLER, VERTICAL MOUNT, OSHA GUARD, 1.5 AMP MOTOR AND MAGNETIC LOUVER. INSULATED FAN COVER.
E	ELECTRIC UNIT HEATER	QMARK MODEL CWH1101DS OR EQUAL	1706	ELECTRIC	120	INCLUDE CWH2S-2 FOR SEMI RECESSED, INCLUDE LOUVER GRILLE, WITH A BUILT-IN THERMOSTAT. WIRE FOR 500 WATTS, 4.2 AMP.
F	FRIGIDAIRE PTAC HEAT PUMP WITH BACKUP ELECT. HEAT	#FRP90ETT2R SILENT DESIGN 30 AMP FUSE.	COOL 14.6K HEAT 13.9K HEAT P 13.6K	ELECTRIC	208/230	INCLUDE WALL SLEEVE & OUTDOOR GRILLE COOL 7.5 AMPS, HEAT PUMP 6.2 AMPS. ELECTRIC HEATER 20.5 AMPS. DRAIN OUTSIDE.



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

GENERAL NOTES:
CONTRACTOR TO FURNISH ALL NECESSARY FLASHING AND TRIM TO PROVIDE A NEAT, WEATHERPROOF FIT AT ALL DOORS, COLUMNS AND ANY LOCATION WHERE THE METAL PANELS MAY BE CUT.

STATE OF MISSOURI
MICHELLE LEIGH SMITH
 REGISTERED PROFESSIONAL ENGINEER
 NUMBER PE-028700

STATE OF MISSOURI
GREGORY EDWARD BRUNKHORST
 REGISTERED ARCHITECT
 NUMBER ARO06265

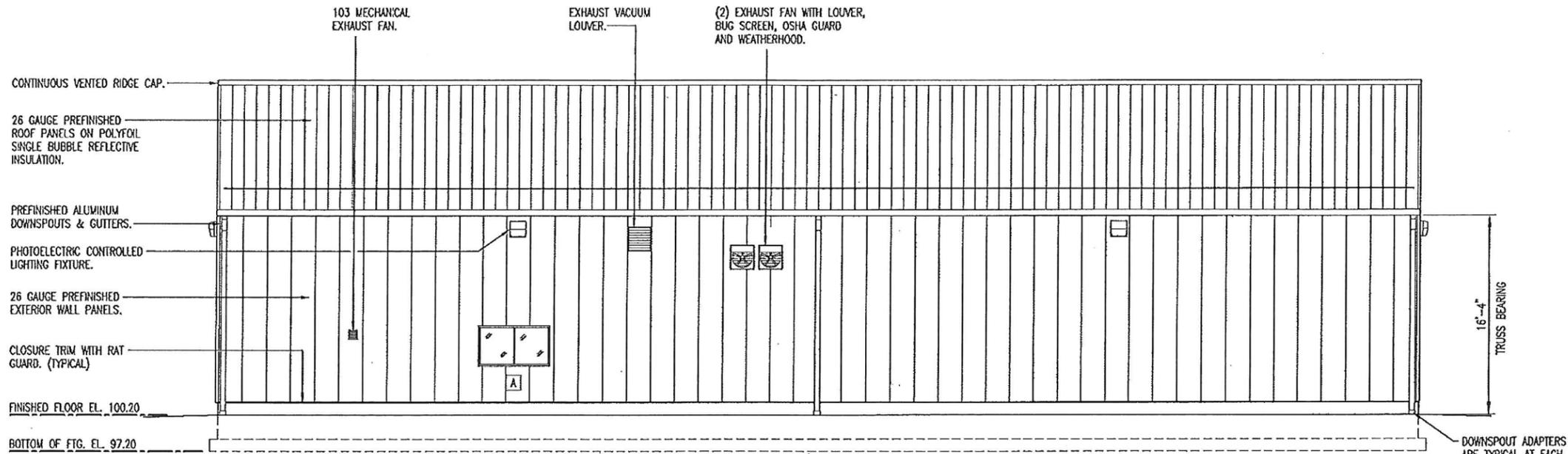
Gregory E Brunkhorst
 ARO06265

SCHEDULES

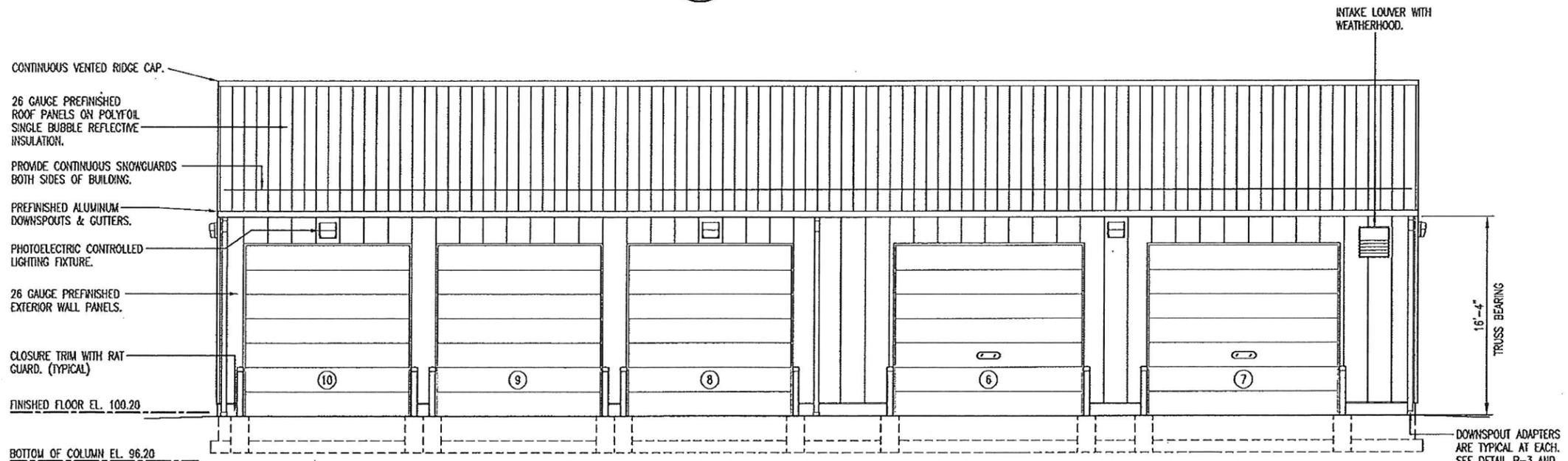
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 FACILITIES MANAGEMENT

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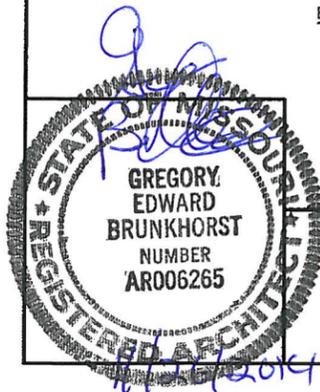
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 DATE: 11-25-14
 Sheet 10 of 23



B WEST ELEVATION
 11 SCALE: 3/32" = 1'-0"



A EAST ELEVATION
 11 SCALE: 3/32" = 1'-0"



Gregory E. Brunkhorst

EAST & WEST ELEVATIONS

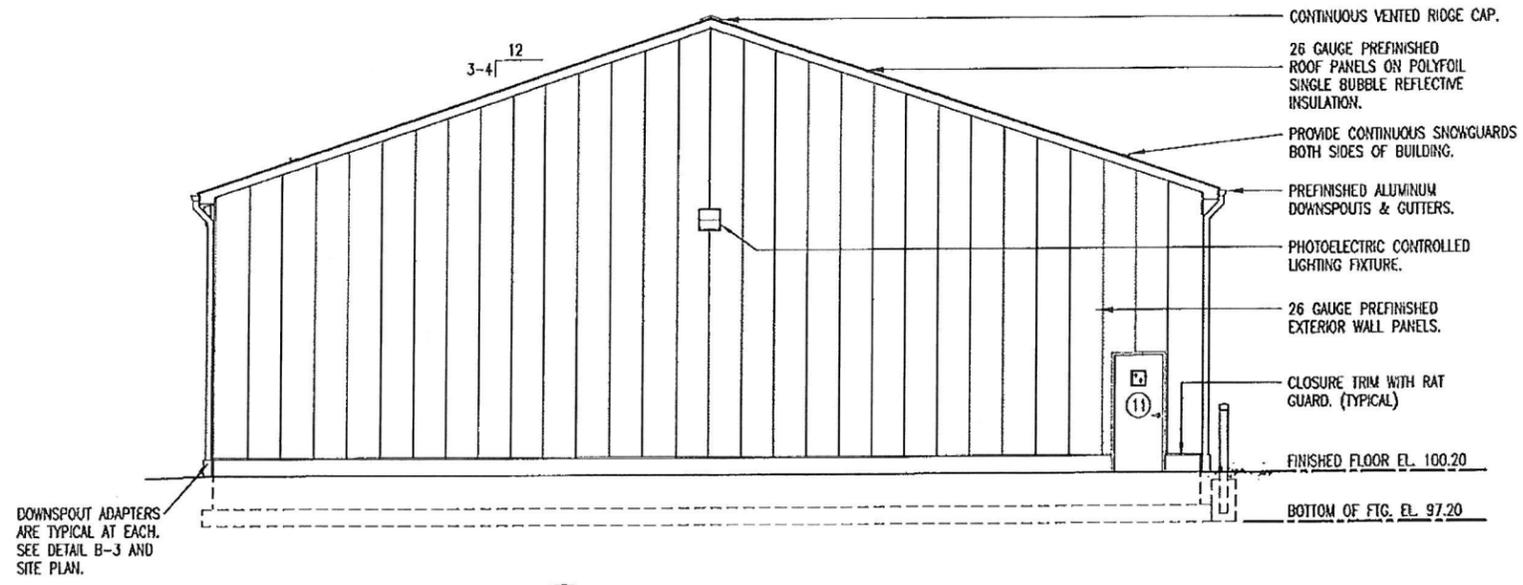
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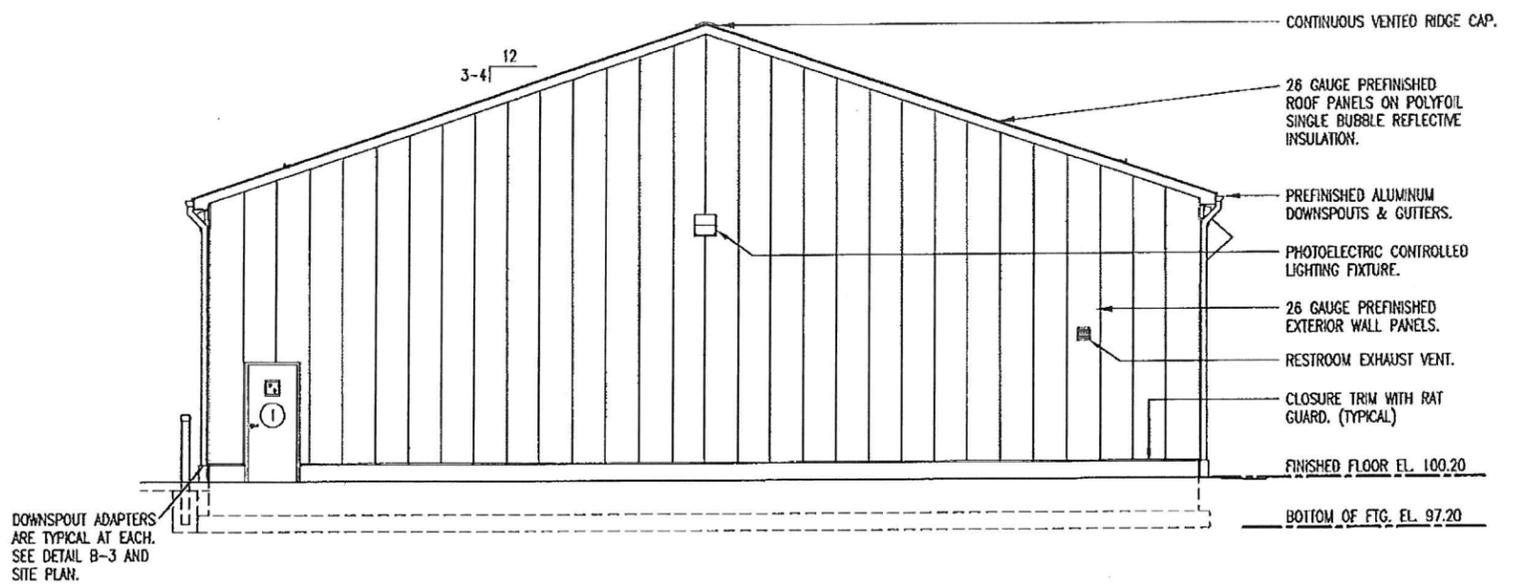
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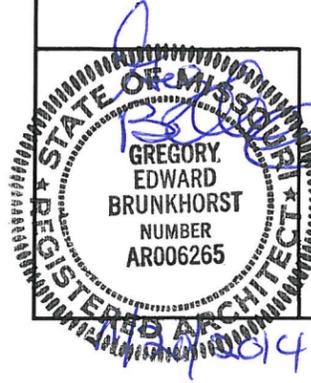
Sheet
 11 of 23



B SOUTH ELEVATION
 12 SCALE: 3/32" = 1'-0"



A NORTH ELEVATION
 12 SCALE: 3/32" = 1'-0"

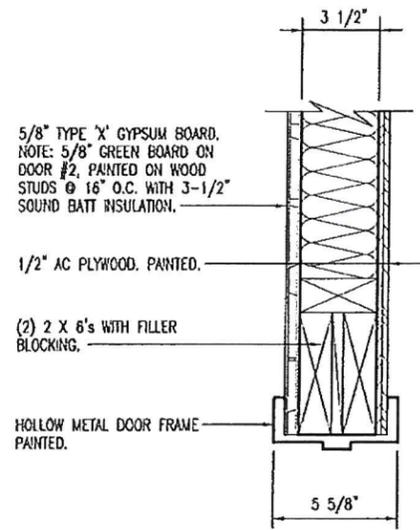


Gregory E. Brunkhorst
NORTH & SOUTH ELEVATIONS
AR006265

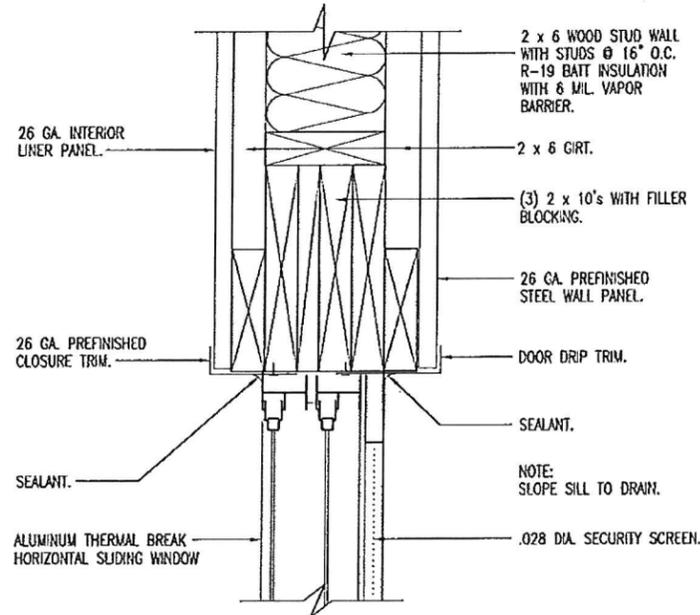
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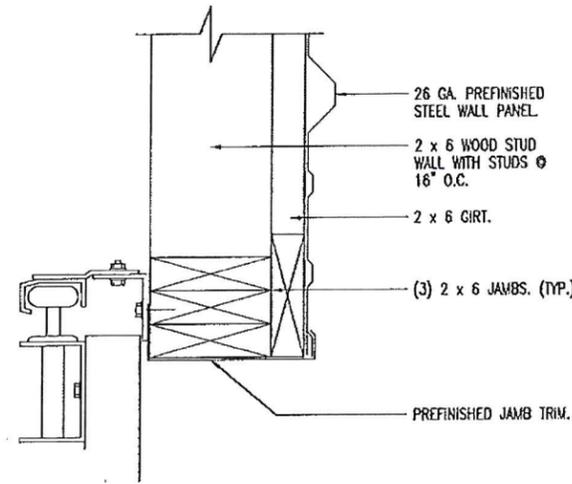
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 DATE: 11-14-14
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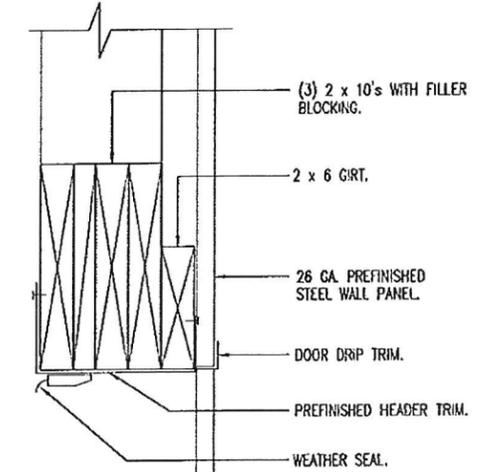
E JAMB SIMILAR DOOR HEAD
13 SCALE: 1-1/2" = 1'-0"



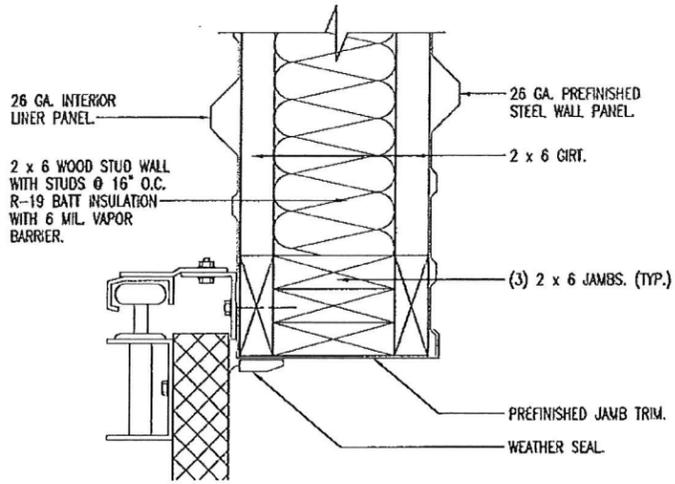
F JAMB & SILL SIMILAR WINDOW HEAD
13 SCALE: 1-1/2" = 1'-0"



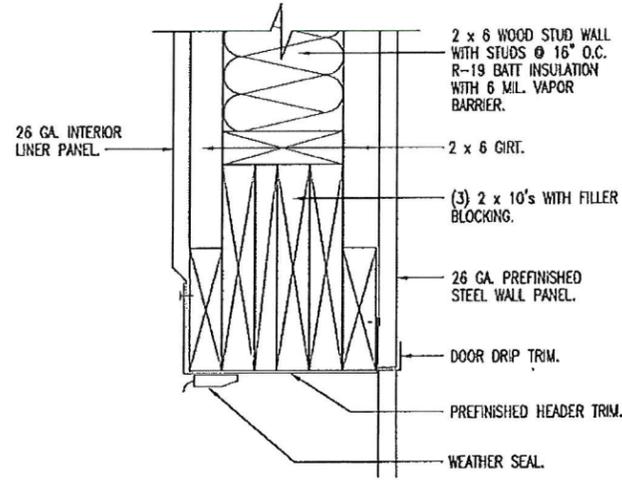
G GARAGE DOOR JAMB
13 SCALE: 1-1/2" = 1'-0"



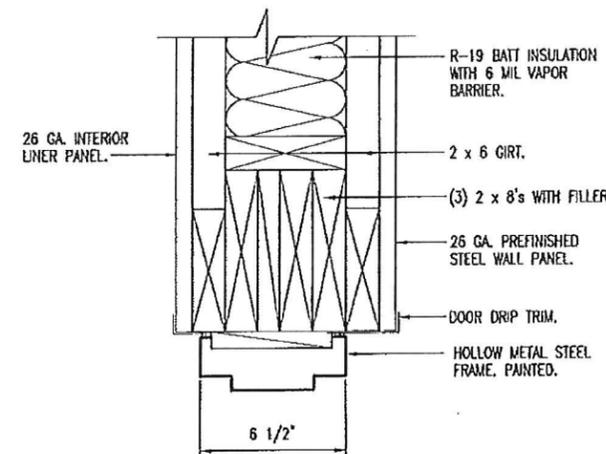
H GARAGE DOOR HEAD
13 SCALE: 1-1/2" = 1'-0"



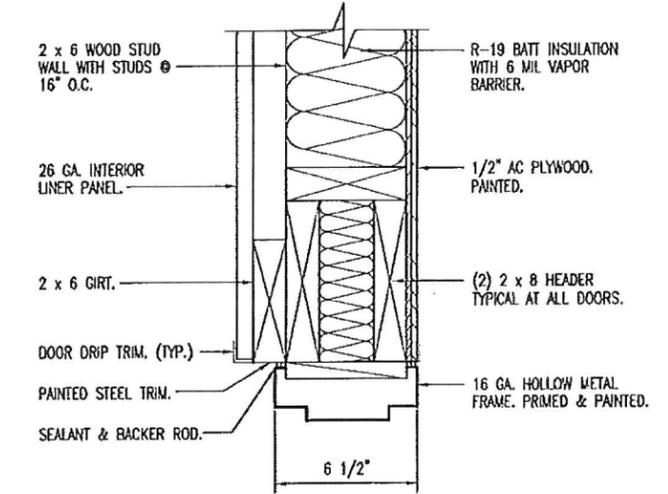
A GARAGE DOOR JAMB
13 SCALE: 1-1/2" = 1'-0"



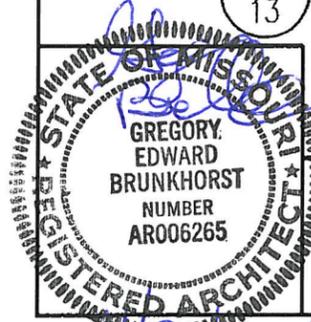
B GARAGE DOOR HEAD
13 SCALE: 1-1/2" = 1'-0"



C DOOR HEADER/JAMB
13 SCALE: 1-1/2" = 1'-0"



D DOOR HEADER/JAMB
13 SCALE: 1-1/2" = 1'-0"



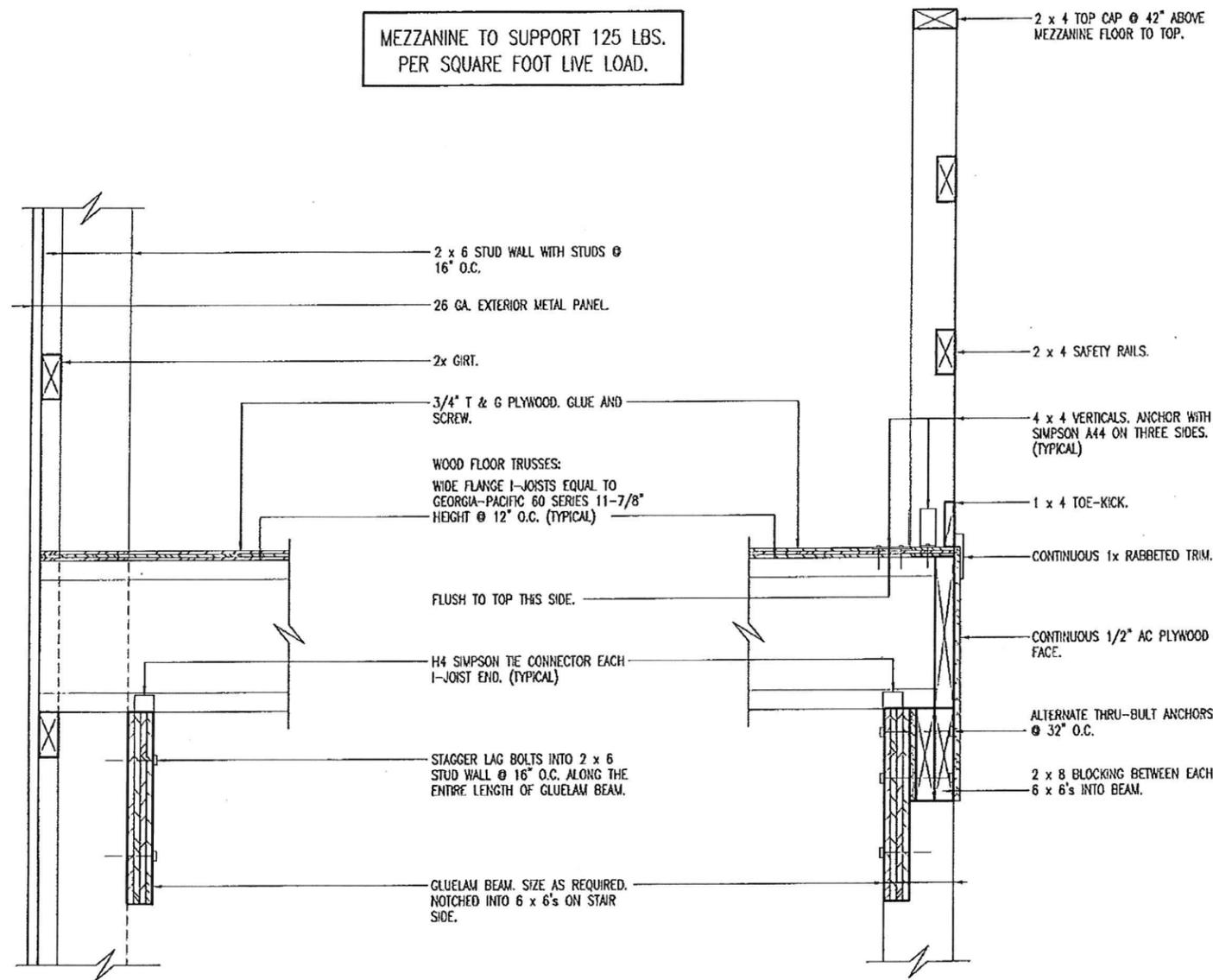
Gregory E. Brunkhorst
HEAD & JAMB DETAILS
AR006265

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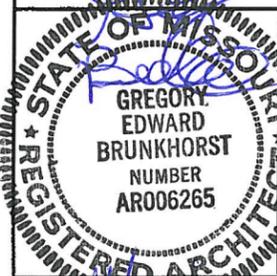
DESIGN BY: LARRY CARVER
DATE: 11-14-14
Sheet 13 of 23

MEZZANINE TO SUPPORT 125 LBS.
PER SQUARE FOOT LIVE LOAD.



A
14
DETAIL
SCALE: 1" = 1'-0"

B
14
SAFETY RAIL
DETAIL
SCALE: 1" = 1'-0"



Gregory E. Brunkhorst

MEZZANINE DETAILS

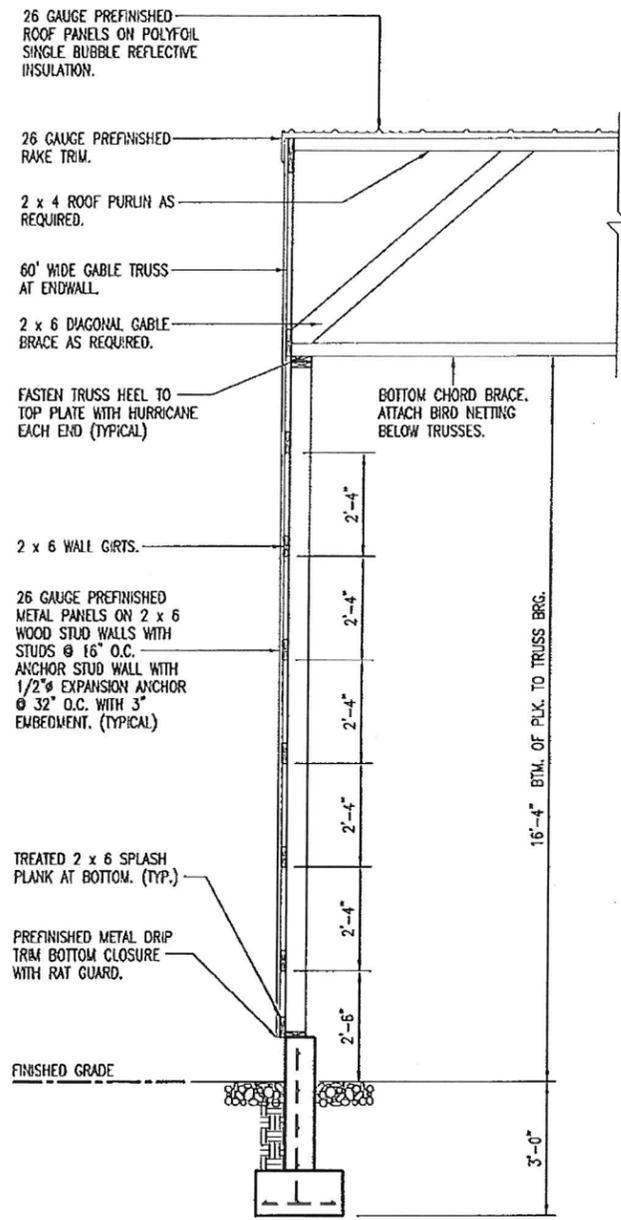
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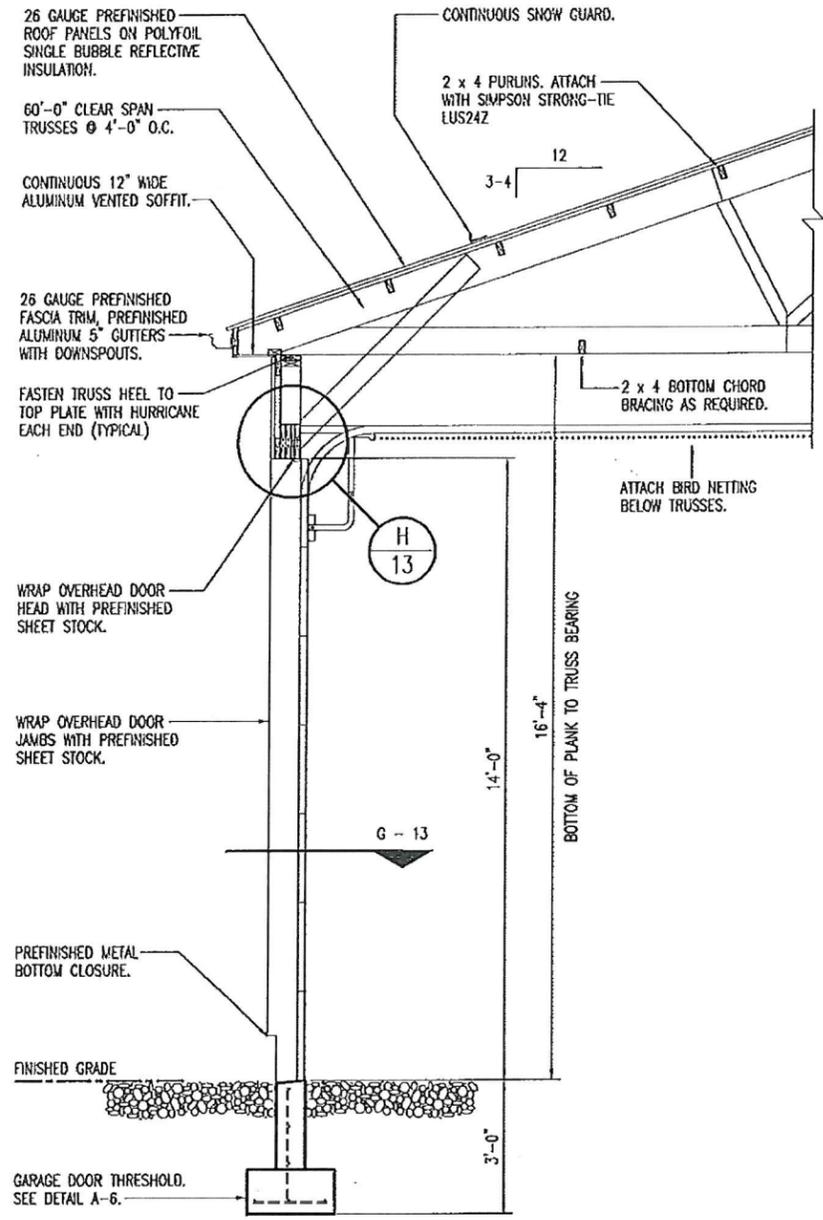
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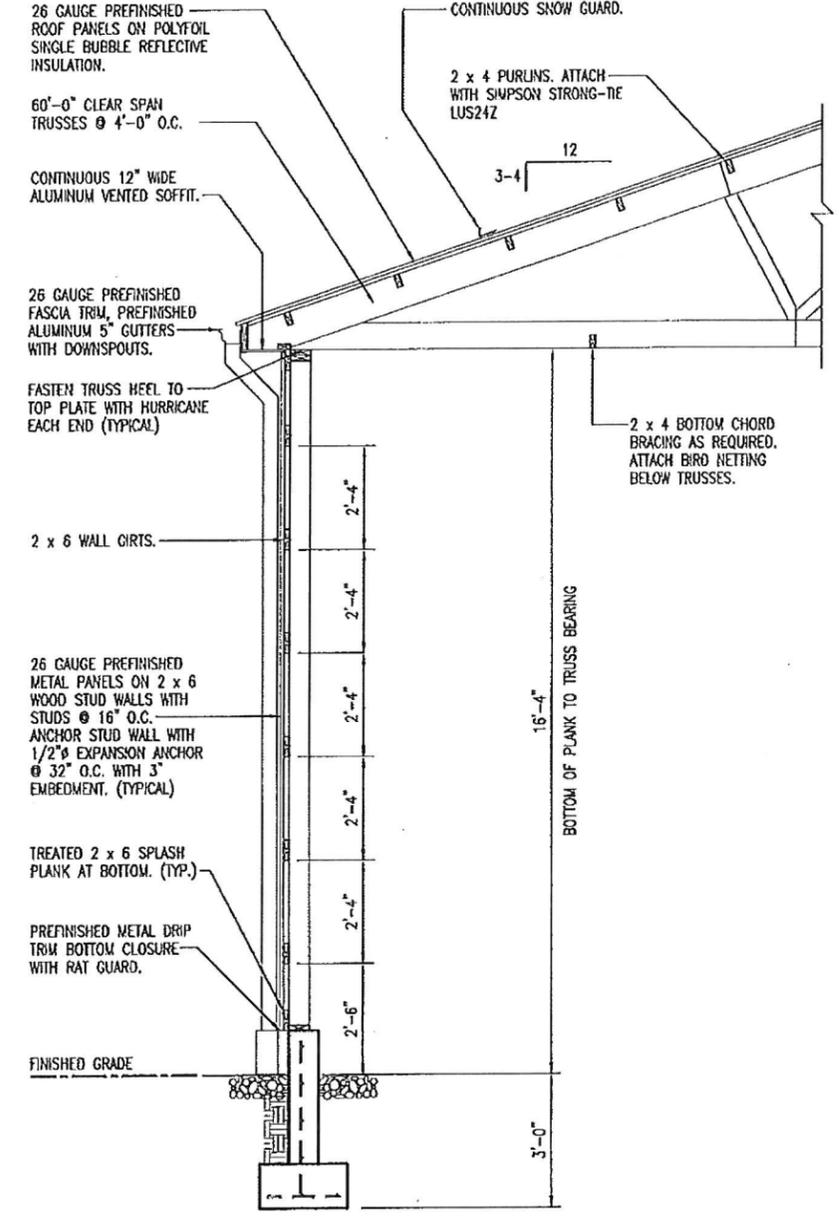
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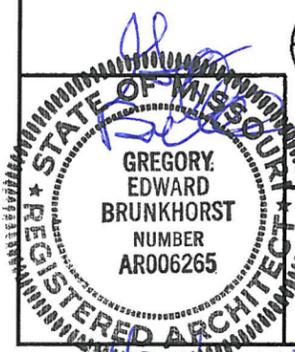
A ENDWALL SECTION
15 SCALE: 1/4" = 1'-0"



B OPEN OVERHEAD DOOR SECTION
15 SCALE: 1/4" = 1'-0"



C SHOWN WITHOUT MEZZANINE.
SIDEWALL SECTION
15 SCALE: 1/4" = 1'-0"

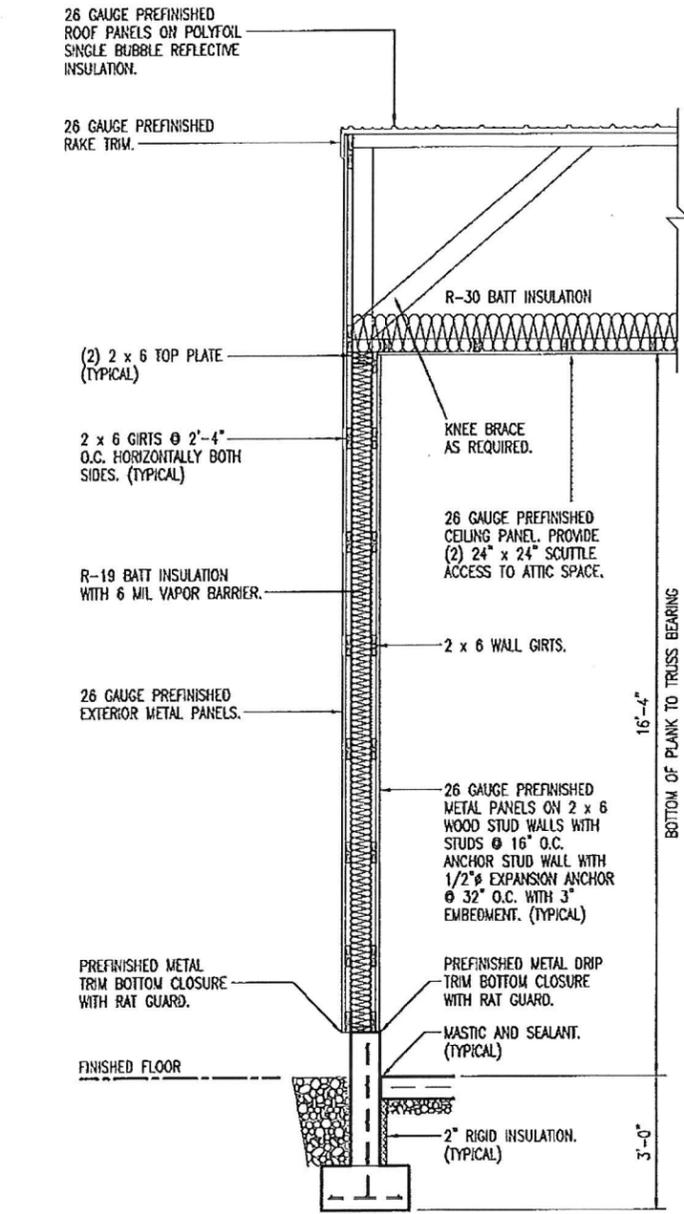
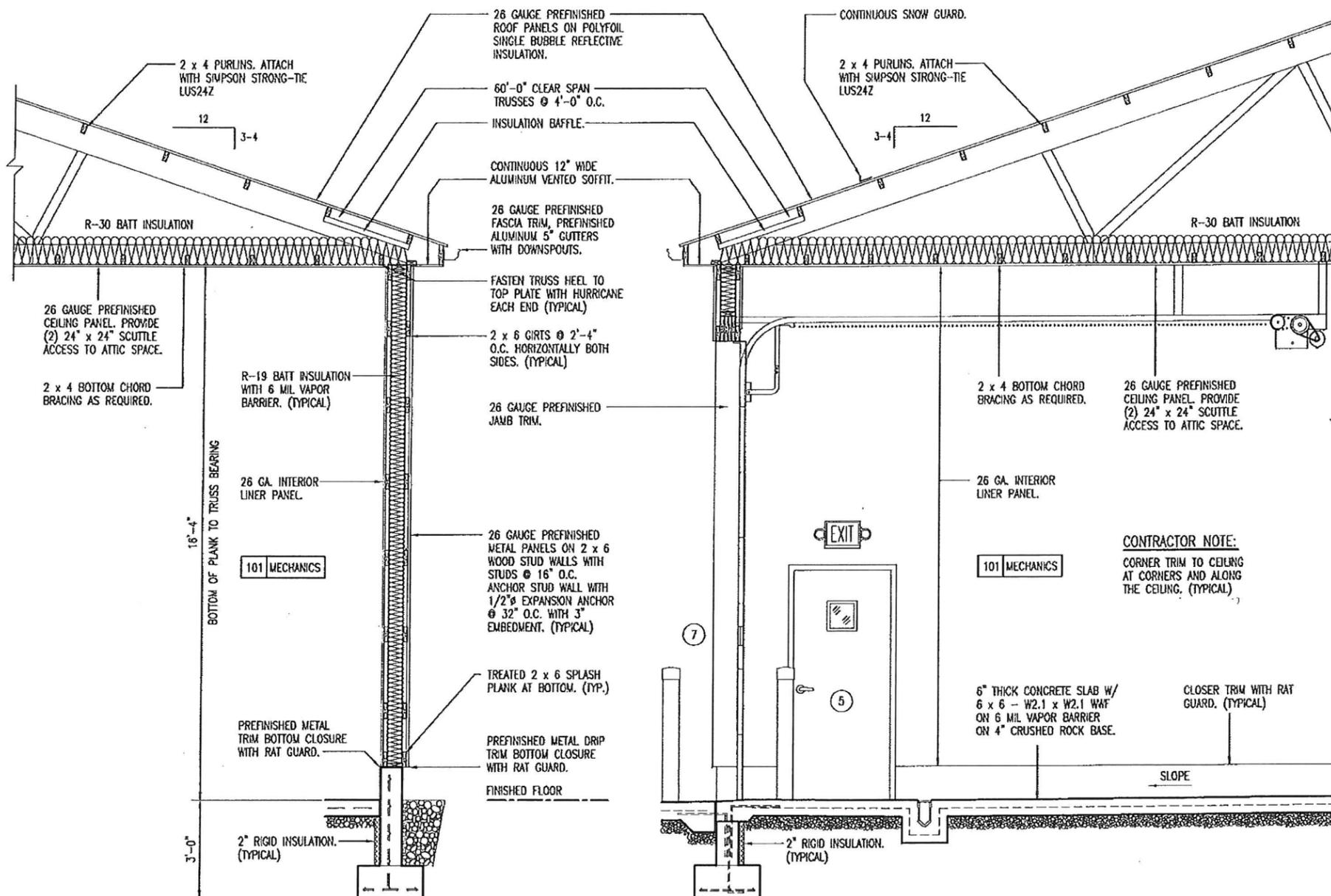


Gregory E. Brunkhorst
AR006265 WALL SECTIONS

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FACILITIES MANAGEMENT

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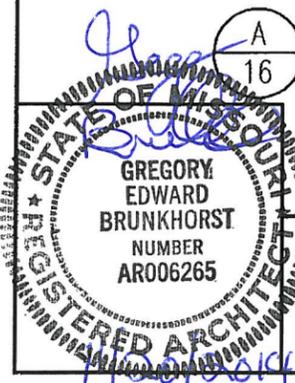
DESIGN BY: LARRY CARNER
DATE: 11-10-14
Sheet
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A SIDEWALL SECTION
16 SCALE: 1/4" = 1'-0"

B OVERHEAD DOOR SECTION
16 SCALE: 1/4" = 1'-0"

C ENDWALL SECTION
16 SCALE: 1/4" = 1'-0"

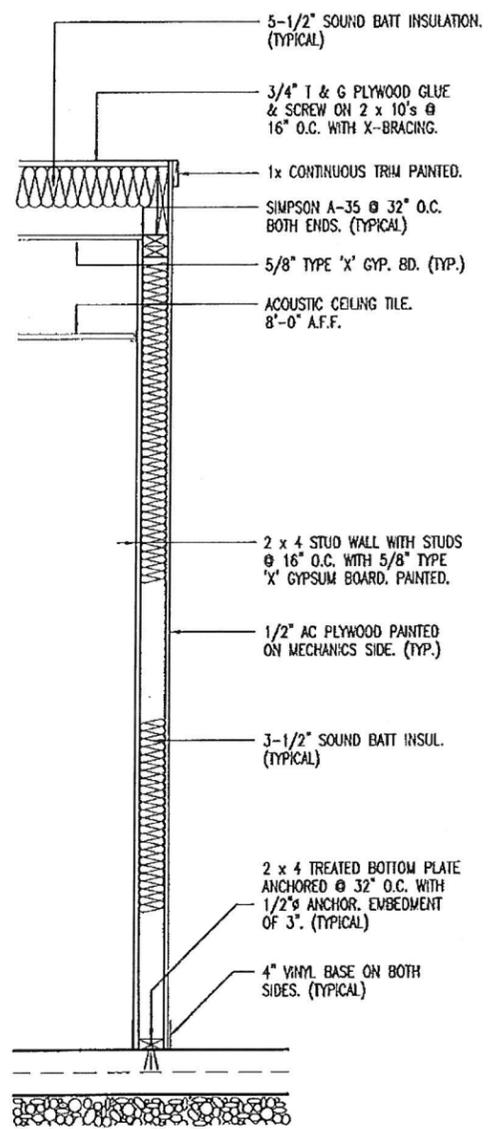
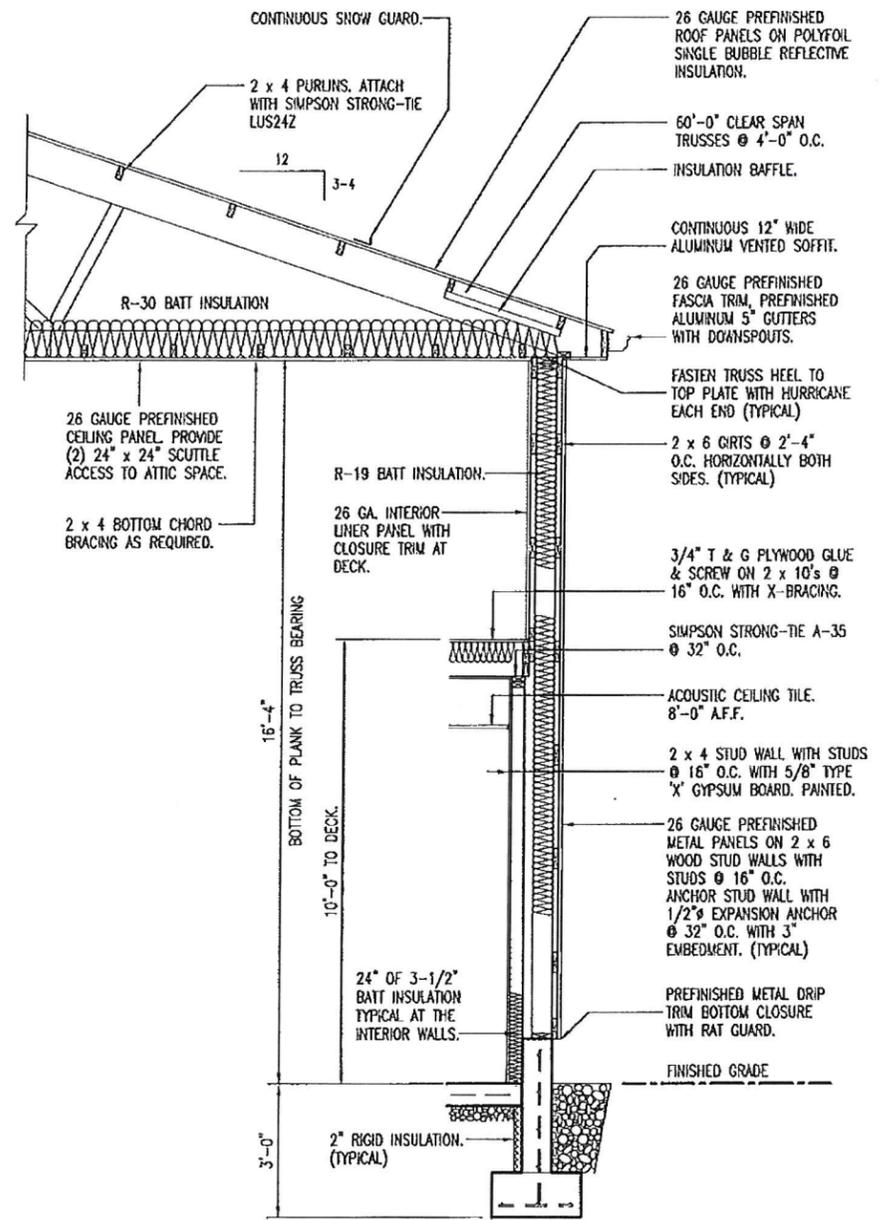


Gregory E. Brunkhorst
ARO06265 WALL SECTIONS

MISSOURI DEPARTMENT OF TRANSPORTATION
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FACILITIES MANAGEMENT

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DESIGN BY: LARRY CAYRE
DATE: 11-7-14
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A
 17
SIDEWALL SECTION
 SCALE: 1/4" = 1'-0"

B
 17
WALL SECTION
 SCALE: 1/2" = 1'-0"

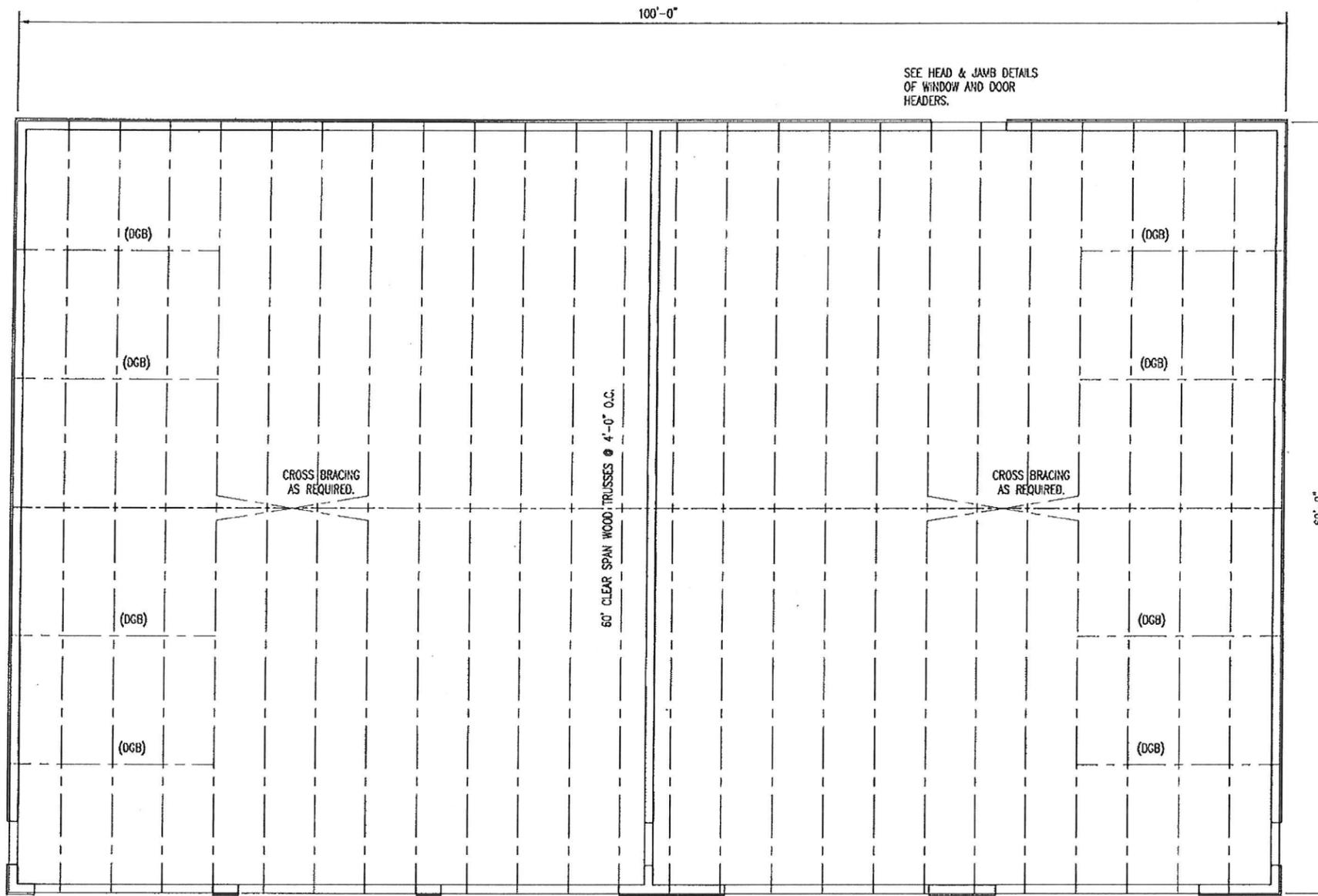


Gregory E. Brunkhorst
 AR006265
WALL SECTIONS

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SEE HEAD & JAMB DETAILS
OF WINDOW AND DOOR
HEADERS.

ROOF FRAMING NOTES

- DESIGN LOADING FOR ROOF TRUSSES SHALL MEET THE FOLLOWING CRITERIA:

ROOF LIVE LOAD	25 PSF
ROOF DEAD LOAD	4 PSF
BOTTOM CORO DEAD LOAD	5 PSF
EARTHQUAKE	ZONE 1, LATEST EDITION IBC
WIND	90 MPH, EXPOSURE B
DEFLECTION	L/360
SPACING	48" O.C. MAXIMUM
- TRUSS DESIGN SUBMITTALS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MISSOURI.
- ROOF TRUSSES AND RAFTERS SHALL BE ANCHORED TO THE TOP PLATE OF LOAD BEARING WALLS WITH SEISMIC AND HURRICANE ANCHORS EQUAL TO SIMPSON STRONG-TIE LUS24Z ANCHORS.

(DGB) DIAGONAL CABLE BRACING AS REQUIRED.

NOTE:
INSTALL BIRD NETTING TO
BOTTOM OF THE TRUSSES
IN UNFINISHED SPACE IN
105 COLD STORAGE.

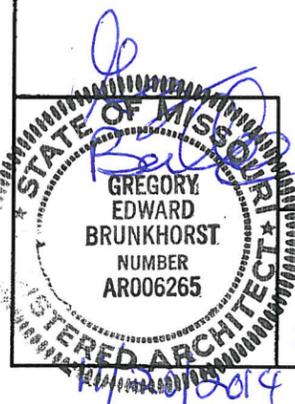
CROSS BRACING
AS REQUIRED.

CROSS BRACING
AS REQUIRED.

60' CLEAR SPAN WOOD TRUSSES @ 4'-0" O.C.

SEE HEAD & JAMB DETAILS
OF WINDOW AND DOOR
HEADERS.

A ROOF FRAMING PLAN
18 SCALE: 3/32" = 1'-0"



Gregory E. Brunkhorst
AR006265

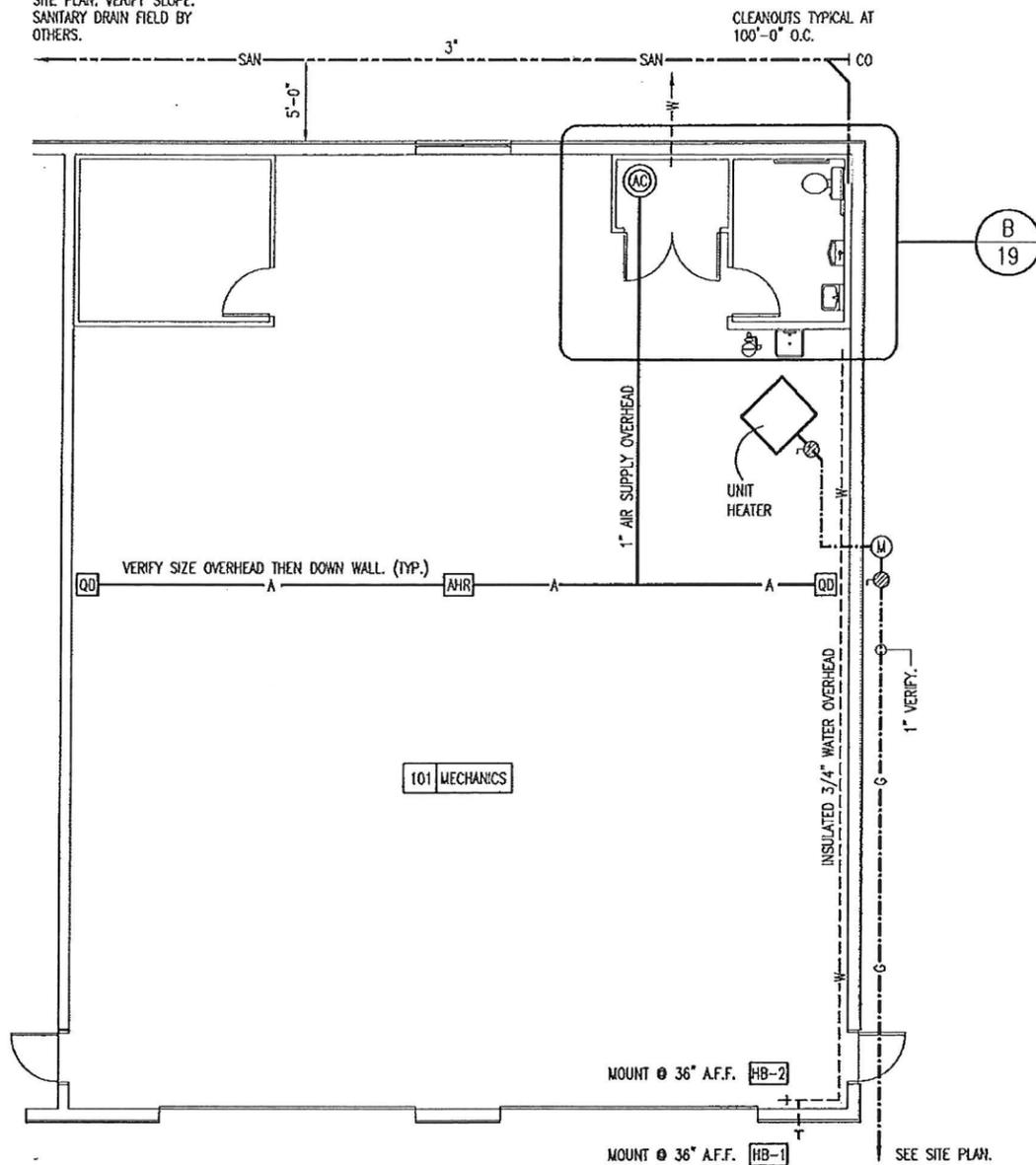
ROOF FRAMING PLAN

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

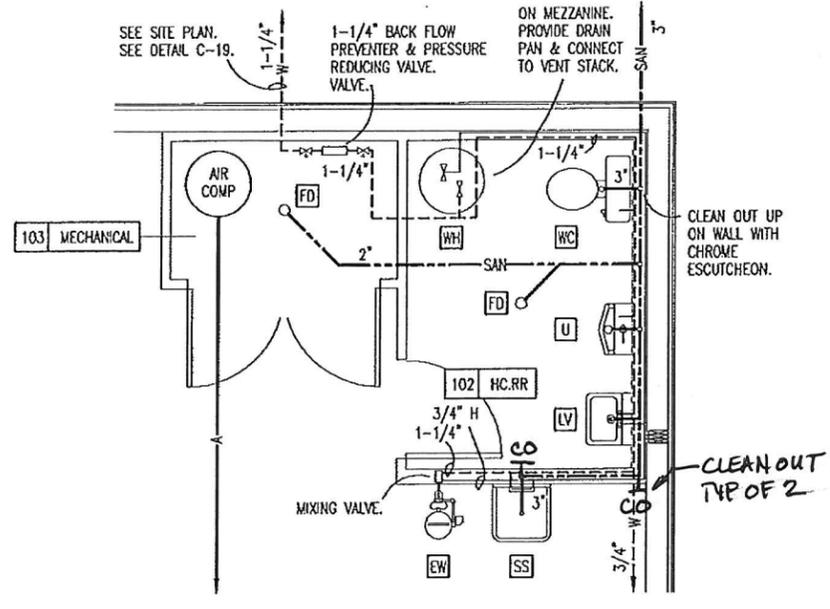
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DATE: 11-14-14
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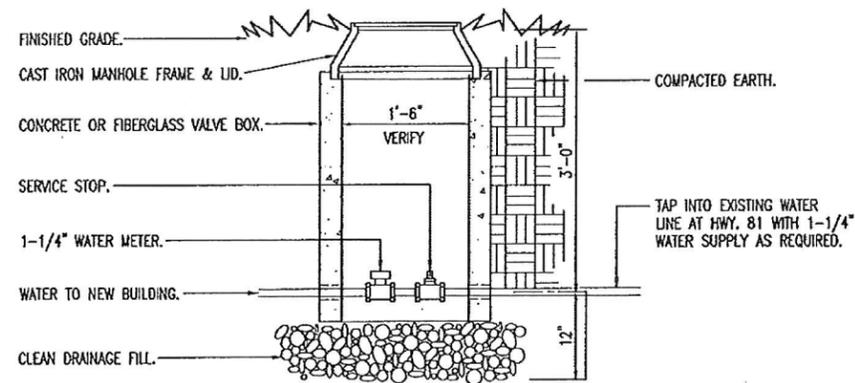
CAP 10'-0" BEYOND SOUTHWESTERN CORNER OF NEW BUILDING. SEE SITE PLAN. VERIFY SLOPE. SANITARY DRAIN FIELD BY OTHERS.



A PLUMBING PLAN
19 SCALE: 3/32" = 1'-0"
NORTH



B REST ROOM PLAN
19 SCALE: 3/16" = 1'-0"
NORTH



C WATER VALVE & DRAIN
19 SCALE: 1/2" = 1'-0"

SEE SHEET 21 FOR PLUMBING SCHEDULE & NOTES.

LEGEND

HOT WATER	— H —
WATER	- - - W - - -
SANITARY SEWER	- - - SAN - - -
COMPRESSED AIR	— A —
GAS	- - - G - - -
CLEANOUT	C.O.
GAS VALVE	⊗



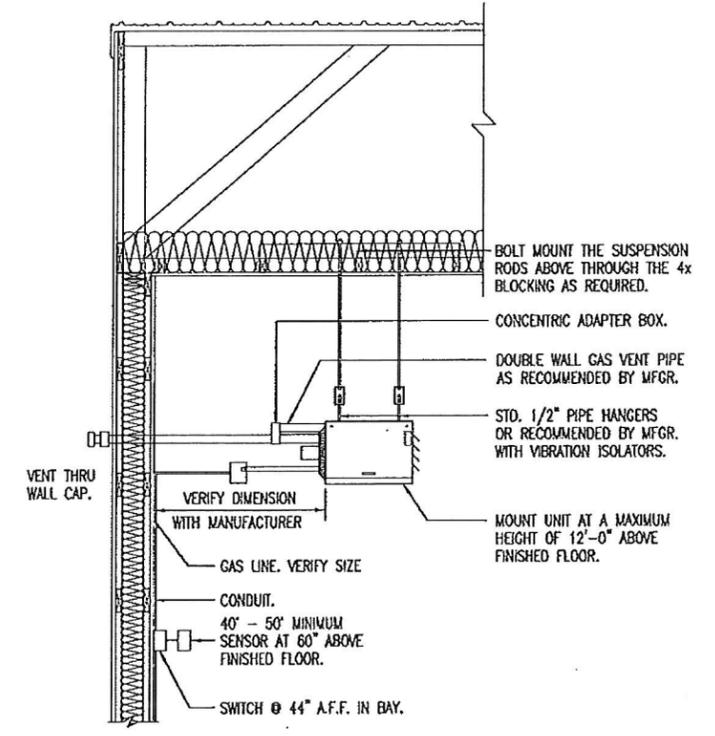
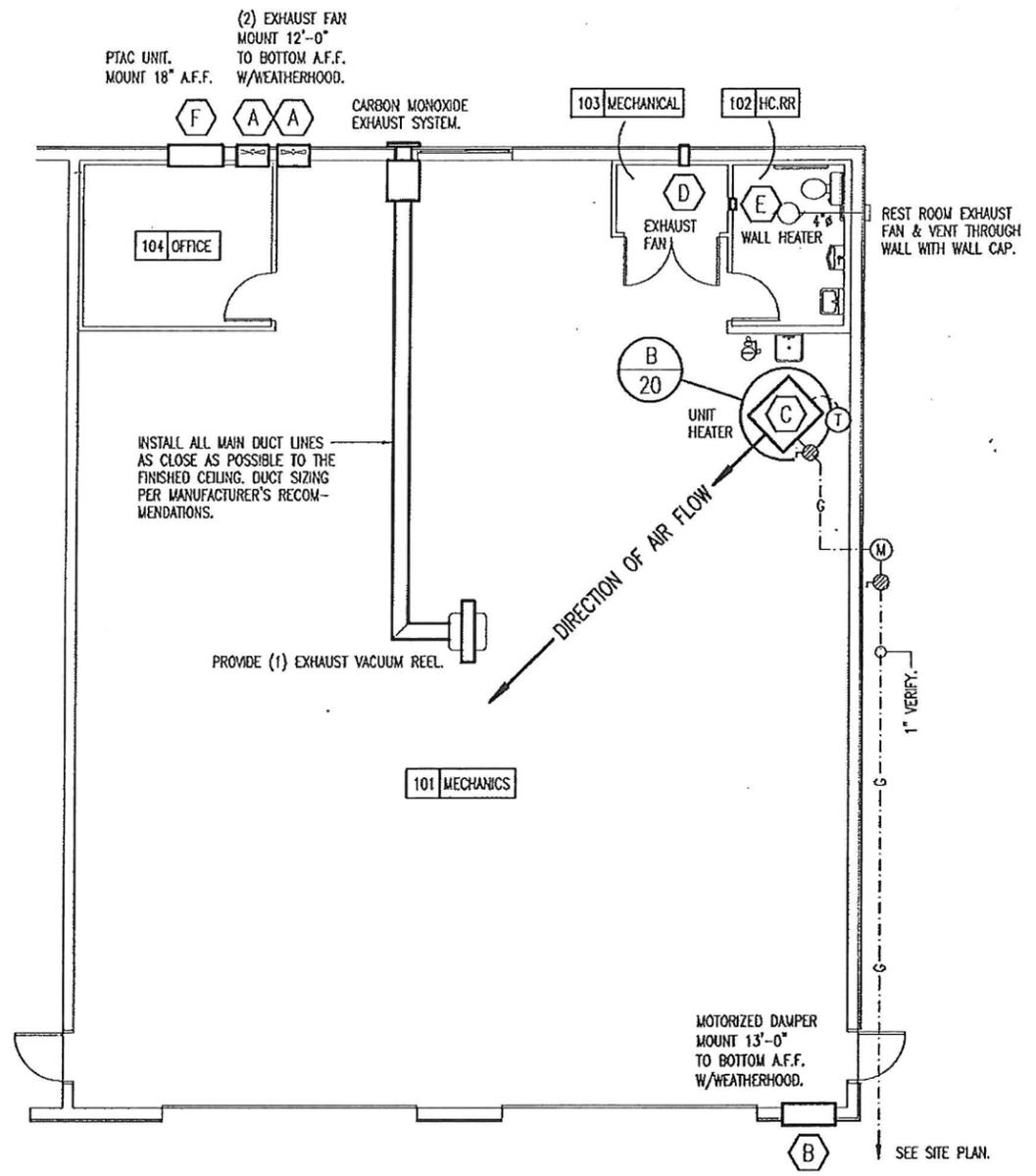
Michelle Leigh Smith
PE-028700
PLUMBING PLAN

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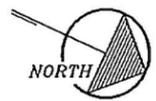
11/24/2014



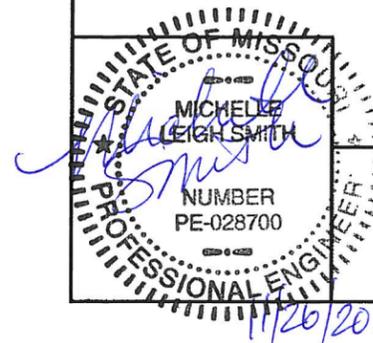
SEE SHEET 21 FOR THE
MECHANICAL NOTES.

SEE SHEET 10 FOR HVAC
FIXTURE SCHEDULE.

A
20
MECHANICAL PLAN
SCALE: 3/32" = 1'-0"



B
20
UNIT HEATER INSTALLATION
NOT TO SCALE



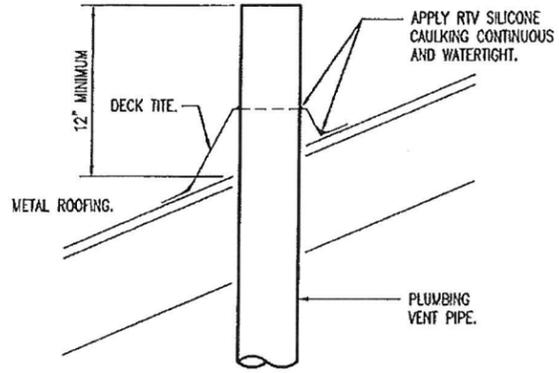
Michelle Leigh Smith
PE-028700
MECHANICAL PLAN

MISSOURI DEPARTMENT
OF TRANSPORTATION
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FACILITIES MANAGEMENT

CANTON
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SYM.	FIXTURE	PIPE CONNECTION				REMARKS
		CW	HW	S&W	VENT	
WC	WATER CLOSET	1/2"		3"	2"	EQUAL TO AMERICAN STANDARD #2377.100 FLOOR MOUNT, PRESSURE ASSISTED, ELONGATED WATER-SAVER "CADET" WATER CLOSET, 16-1/2" HIGH 3109.016 BOWL, 4098.100 TANK. INCLUDE OPEN FRONT SEAT WITH LID. (WHITE)
U	URINAL	3/4"		1-1/2"	1-1/2"	EQUAL TO AMERICAN STANDARD #6601.021 "LYNBROOK" 1.0 GALLON URINAL WITH SLOAN ROYAL 180-1 FLUSH VALVE.
LV	LAVATORY	1/2"	1/2"	2"	2"	EQUAL TO AMERICAN STANDARD #4867.024, 20" x 18" ENAMELED, CAST IRON "REGALYN" WALL MOUNT LAVATORY WITH 4" CENTERSET SYMONS SYMMETRIX S-20-2-BH SINGLE LEVER LAVATORY FAUCET. INCLUDE AN ADA APPROVED INSULATION KIT.
SS	SERVICE SINK	1/2"	1/2"	3"	2"	EQUAL TO AMERICAN STANDARD #7692.049, 22" x 18" ENAMELED, CAST IRON "LAKEWELL" SERVICE SINK W/ 8340.242 HERITAGE LEVEL HANDLE FAUCET, AND 7798.176 P-TRAP.
EW	EMERGENCY EYE WASH	1-1/4"	3/4"			EQUAL TO BRADLEY "MODEL S19-310" DRENCH SHOWER/EYE WASH UNIT SAFETY YELLOW. S19-2100 THERMOSTATIC MIXING VALVE.
WH	WATER HEATER	3/4"	3/4"			A.O. SMITH MODEL NUMBER EES-30 (2) 4500 WATT, 240 VOLT ELEMENTS, 30 GALLON ELECTRIC WITH PRESSURE RELIEF VALVE OR EQUAL. MOUNT ON MEZZANINE WITH DRAIN PAN.
HB-1	HOSE BIBB	3/4"				EXTERIOR - EQUAL TO WOODFORD MODEL 67 FREEZELESS WALL HYDRANT WITH 3/4" H.P.T. OUTLET, INTEGRAL VACUUM BREAKER-BACK FLOW PREVENTER. (N.I.C.)
HB-2	HOSE BIBB	3/4"				INTERIOR - EQUAL TO WOODFORD MODEL 26 WALL FAUCET WITH 3/4" H.P.T. OUTLET, INTEGRAL VACUUM BREAKER-BACKFLOW PREVENTER.
FD	FLOOR DRAIN			2"		PVC FLOOR DRAIN WITH P-TRAP, 6-1/2" DIA. NICKLE-BRONZE STRAINER, 2" FIP THREADED THROAT-BALL BACKWATER DEVYCE. 1-1/2" PRE-INSTALLED FIP CLEAN-OUT THREADS.
CO	CLEAN OUT					BRASS WITH ADAPTER AND CAP EQUAL TO PIPE SIZE SHOWN.
AC	AIR COMPRESSOR					EQUAL TO INGERSOLL-RAND MODEL #2475H7.5, 7.5 HP, 80 GALLON VERTICAL, 24.0 (ACFM) CAPACITY. PROVIDE RUBBERIZED WASHERS AT EACH FLOOR MOUNT TO ACT AS A SHOCK ABSORBER. SIZE MOUNT AS REQUIRED. PROVIDE LINE FILTERS AS REQUIRED.
AHR	AIR HOSE REEL					EQUAL TO REELCRAFT 7850 OLP 57 300 LOW PRESSURE HEAVY DUTY ALL STEEL CONSTRUCTION WITH ONE PIECE WRAP AROUND GUIDE ARM.
QD	QUICK DISCONNECT					VERIFY SIZE WITH MODOT MECHANIC. MOUNT AT 48" A.F.F. ATTACH RIGIDLY TO GIRTS.



VENT THROUGH ROOF DETAIL

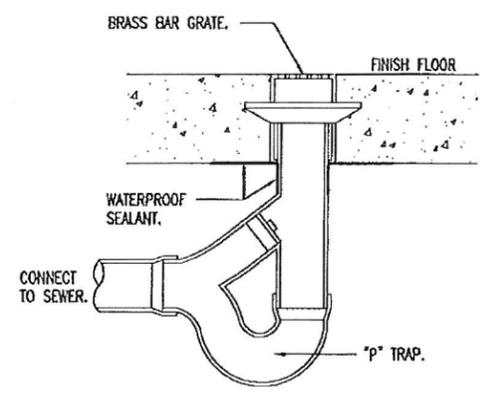
SCALE: NONE

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.

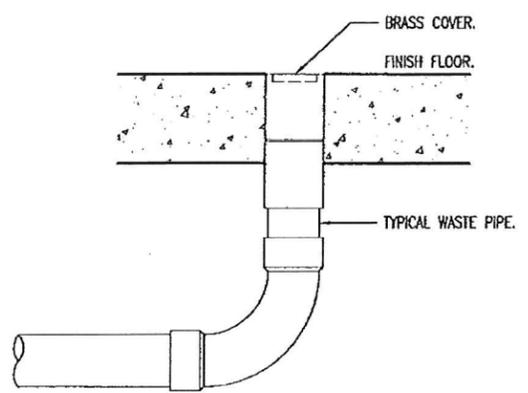
PLUMBING NOTES

1. DRAWINGS AND DIAGRAMS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
2. PLUMBING SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE INTERNATIONAL PLUMBING CODE.
3. 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.
4. PROVIDE PLUMBING EQUIPMENT AND ACCESSORIES REQUIRED FOR COMPLETE AND OPERATIONAL PLUMBING SYSTEMS AS REQUIRED BY MANUFACTURER'S INSTRUCTIONS AND DIRECTIONS FOR SYSTEMS SPECIFIED.
5. PLUMBING VENTS ARE NOT SHOWN ON THE PLANS. ALL FIXTURES SHALL BE PROPERLY VENTED AS PER IBC PLUMBING CODE.
6. ROOF VENTS SHALL BE COMBINED WHEREVER IN COMPLIANCE WITH THE NATIONAL PLUMBING CODE TO MINIMIZE ROOF PENETRATIONS.
7. PROVIDE SHUT OFF VALVES AT EACH FIXTURE.
8. PROVIDE SHOCK ABSORBERS AS REQUIRED AT EACH FAUCET.
9. SEE MECHANICAL PLAN FOR GAS PIPING AND MECHANICAL REQUIREMENTS.
10. CONTRACTOR TO PROVIDE CAST IRON VENT PIPING IN PLENUM AS REQUIRED BY CODE. SECURE AS REQUIRED.



FLOOR DRAIN DETAIL

SCALE: NONE



FLOOR CLEANOUT DETAIL

SCALE: NONE

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PLUMBING & MECHANICAL NOTES

SCALE: NONE



Michelle Leigh Smith
PE-028700

Plumbing & Mechanical Notes

11/26/2014

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

CANTON
Mechanics Bay & Cold Storage Building
17365 Highway 81, Canton, MO 63435
Northeast District - Lewis County

DESIGN BY: LARRY CARYER
DATE: 11-14-14
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ELECTRIC SCHEDULE

MANUF.	MODEL	#	LAMPS TYPE	W	MNT	REMARKS
WILLIAMS A	81-8-454TSH-WG-EB2-UNV	8	FLUORESCENT	54	CLG	96" LONG SURFACE MOUNT FLUORESCENT LIGHT FIXTURE, W/ PAINTED STEEL HOUSING, ELECTRONIC BALLAST, & WIRE GUARD.
WILLIAMS B	50G-S24-432-RA12125-EM7-EB4-120	4	FLUORESCENT	32	CLG	24" x 48" STATIC TROFFER FIXTURE, W/ FULL DOOR FRAME, NO REVEAL, WHITE ALUMINUM, ELECTRONIC BALLAST & EMERGENCY BATTERY.
WILLIAMS D	50G-S22-417-RA12125-EM7-EB4-120	4	FLUORESCENT	32	CLG	24" x 24" STATIC TROFFER FIXTURE, W/ FULL DOOR FRAME, NO REVEAL, WHITE ALUMINUM, ELECTRONIC BALLAST & EMERGENCY BATTERY.
BROAN F	GRANGER #4C772				CLG	80 CFM CEILING MOUNT BATHROOM VENTILATOR.
WILLIAMS G	GL-4-454TSH-HUB3/4" EB4-120	4	FLUORESCENT	54	CLG	14" x 48" LOW PROFILE FIXTURE, W/ WHITE ALUMINUM HOUSING, HIGH SPECULAR ALUMINUM REFLECTOR & ELECTRONIC BALLAST.
WILLIAMS H	GL-4-454TSH-HUB3/4" EM700-EB4-120	4	FLUORESCENT	54	CLG	14" x 48" FIXTURE, W/ WHITE ALUMINUM HOUSING, HIGH SPECULAR ALUMINUM REFLECTOR ELECTRONIC BALLAST & EMERGENCY BATTERY.
ATLAS L	WLM43LED	1	LED	43	WALL	EXTERIOR, SURFACE MOUNT LIGHT FIXTURE, WITH ALUMINUM HOUSING. GLARE FREE LENS.
DAYTON M	4C853				CLG	SINGLE-SPEED, THREE-BLADE, HEAVY DUTY COMMERCIAL CEILING FAN.
N	OVERHEAD DOOR OPERATOR				WALL	115V, 1-PH, TROLLEY TYPE. SEE SPECIFICATION SECTION 08720.
LITHONIA O	LHQM P W3 R N				WALL	QUANTUM THERMOPLASTIC EXIT/UNIT COMBO (2) LED 5.4 KRYPTON LAMPS.
TORK P	2001				WALL	120V PHOTO ELECTRIC CONTROL OF EXTERIOR LIGHTS.
S	OVERHEAD DOOR CONTROL				WALL	THREE BUTTON OVERHEAD DOOR CONTROL AS SUPPLIED BY OVERHEAD DOOR MANUF. SEE SPECIFICATION SECTION 08720.
REELCRAFT D	L 4050 163 1				CLG	CEILING MOUNTED SPRING RETRACTABLE, ELECT. CORD REEL WITH INCANDESCENT LAMP & THREE PRONG OUTLET PLUG.
LITHONIA Z	WP 1 39 39W 15 HO (36") DO 120 GE8101S	1	FLUORESCENT	39	WALL	7-3/16" x 36" PREMIUM WALL BRACKET 20 GAUGE COILED-ROLLED STEEL. DIFFUSER IS HIGH-IMPACT. HANG INSIDE ABOVE DOOR.
WILLIAMS AA	15-4-2-32-F-A19156 EB2-120	2	FLUORESCENT	32	SURFACE	12" x 48" .050" ALUMINUM FRAME WITH LUMINUS SIDES. PROVIDE BLOCKING AS REQUIRED.

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

SERVICE PANEL LPA

		MAIN BUS: 225A 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 16726 VA B PHASE 13415 VA TOTAL 30141 VA 126 A	
CIR	SERVICE	VA	BKR	VA	SERVICE	CIR	
1	LIGHTS - 101 MECHANICS	1517	20A1P A	20A1P 540	CORD REEL	2	
3	LIGHTS - 101 MECHANICS	643	20A1P B	20A1P 540	RECEPTACLES - 101	4	
5	LIGHTS - 102 RR, 103 MECH.	227	20A1P A	20A1P 540	RECEPTACLES - 101	6	
7	LIGHTS - 104 OFFICE	128	20A1P B	20A1P 576	EXHAUST FAN 103 MECH.	8	
9	GFI RECEPTACLE - 102 RR	180	20A1P A	20A1P 720	RECEPTACLES - 101 & MECH.	10	
11	RECEPTACLES - 104 OFFICE	720	20A1P B	20A1P 360	RECEPTACLES - 104 OFFICE	12	
13	EXHAUST FAN & LOUVER	813	20A1P A	30A1P 2162	GARAGE DOOR OPENERS	14	
15	UNIT HEATER - 101 MECH.	456	20A1P B	20A1P 504	WALL HEATER - 102 RR	16	
17	CEILING FANS - 101	156	20A1P A	30A2P 4060	PTAC UNIT	18	
19	SPARE	-	20A1P B	4060		20	
21	AIR COMPRESSOR	4600	50A2P A	30A2P 828	CARBON MONOXIDE	22	
23		4600	B	828		24	
25			A			26	
27			B			28	
29			A			30	
31			B			32	
33			A			34	
35			B			36	
37			A			38	
39			B			40	
41			A			42	

⊙ CIRCUIT BREAKER SHALL BE GFI RATED

SERVICE PANEL LPB

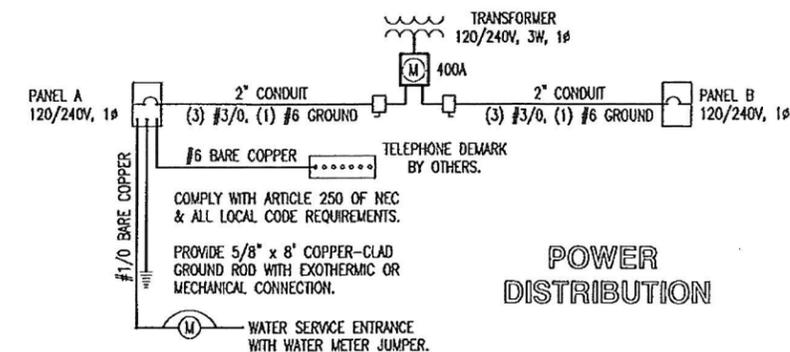
		MAIN BUS: 400A MLO VOLTS: 240/120, 1PH, 3-WIRE BUS MATERIAL: COPPER MOUNTING: SURFACE		SQUARE "D" NOOD OR EQUAL W/ NEUTRAL BUS & GROUNDING BUS CIRCUIT BREAKERS BOLT-IN 10000 AIC		CONNECTED LOAD A PHASE 16487 VA B PHASE 16480 VA TOTAL 32967 VA 138 A	
CIR	SERVICE	VA	BKR	VA	SERVICE	CIR	
1	LIGHTS - 105 COLD STORAGE	1728	20A1P A	20A1P 172	EXTERIOR LIGHTS	2	
3	LIGHTS - 105 STORAGE	193	20A1P B	20A1P 525	EXTERIOR LIGHTS	4	
5	LIGHTS - 201 MEZZANINE	193	20A1P A	20A1P 540	RECEPTACLES - 105	6	
7	105 - WELDER COLD STORAGE	4500	50A2P B	20A1P 1000	RECEPTACLE - 105	8	
9		4500	A	20A1P 1000	RECEPTACLE - 105	10	
11	WATER HEATER	2600	30A2P B	20A1P 1000	RECEPTACLE - 105	12	
13		2600	A	20A1P 540	RECEPTACLES - 105	14	
15	101 - WELDER MECHANICS	4500	50A2P B	30A1P 2162	GARAGE DOOR OPENERS	16	
17		4500	A	20A1P 1081	GARAGE DOOR OPENER	18	
19			B			20	
21			A			22	
23			B			24	
25			A			26	
27			B			28	
29			A			30	
31			B			32	
33			A			34	
35			B			36	
37			A			38	
39			B			40	
41			A			42	

⊙ CIRCUIT BREAKER SHALL BE GFI RATED

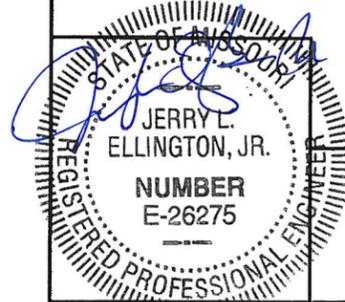
ELECTRICAL NOTES

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- ELECTRICAL WORK SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE (N.E.C.).
- PROVIDE ELECTRICAL EQUIPMENT AND ACCESSORIES REQUIRED FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM AS REQUIRED BY MANUFACTURER'S INSTRUCTIONS AND DIRECTIONS FOR SYSTEMS SPECIFIED.
- SWITCHES AND RECEPTACLES SHALL BE EQUAL TO THE AMPERE RATING SHOWN IN THE PANEL SCHEDULE. RECEPTACLES SHALL BE GROUND-FAULT INTERRUPTION TYPE WHERE SHOWN OR AS REQUIRED BY CODE.
- BATHROOM EXHAUST FAN IS TO BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- SEE HVAC SCHEDULE FOR EQUIPMENT TO BE HARD WIRED, PROVIDE SERVICE DISCONNECT AT EACH.
- ALL RECEPTACLES IN GARAGE AREA TO BE MOUNTED AT 48" A.F.F.
- COORDINATE WORK WITH OTHER TRADES PRIOR TO COMMENCING WITH ELECTRICAL WORK.
- CONDUCTOR AND BREAKER SIZE MAY VARY PER MANUFACTURER ON THE EQUIPMENT SPECIFIED. ELECTRIC CONTRACTOR TO VERIFY SIZES WITH EXACT EQUIPMENT ORDERED PRIOR TO PURCHASING ELECTRICAL SUPPLIES.
- FIXTURE LOCATIONS ARE APPROXIMATE, EXACT LOCATIONS TO BE DETERMINED AFTER COLLABORATION WITH THE OWNER AND OTHER TRADES.

- CONTRACTOR SHALL PROVIDE SERVICE DISCONNECTS AS REQUIRED AT EXTERIOR OF BUILDING.
- PROVIDE BLOCKING FOR ELECTRICAL DEVICES AS REQUIRED FOR A SECURE APPLICATION.
- PROVIDE CONDUCTORS AND CONDUIT TO TRANSFORMER 100'-0"± TO POLE EAST OF NEW BUILDING AS REQUIRED FOR A FUNCTIONAL SERVICE.



POWER DISTRIBUTION



11/26/2014

ELECTRICAL PANELS

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