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MISSOURI DEPARTMENT  
OF TRANSPORTATION

CENTRAL DISTRICT  
OSAGE BEACH PROJECT OFFICE  
749 State Highway 42  
OSAGE BEACH, MISSOURI 65065  
Miller County

CODE REQUIREMENTS

BUILDING CODE: ANALYSIS BASED ON 2013 INTERNATIONAL BUILDING CODE  
2013 INTERNATIONAL PLUMBING CODE  
2013 INTERNATIONAL MECHANICAL CODE  
2013 NATIONAL ELECTRICAL CODE

USE GROUP; B (BUSINESS)  
S-1 (MODERATE HAZARD STORAGE)

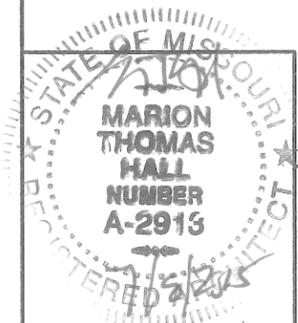
DESIGNED AS NON-SEPERATED USE GROUPS

CONSTRUCTION TYPE: VB COMBUSTIBLE, NON PROTECTED

ALLOWABLE AREA: 3600 SF  
BUSINESS: 3460 SF  
STORAGE: 140 SF

ALLOWABLE HEIGHT: 1 STORY  
PROPOSED HEIGHT: 1 STORY

OCCUPANT LOAD:  
BUSINESS: 1000SF/100SF PER OCCUPANT = 10 OCCUPANTS  
STORAGE: 8000SF/4000SF PER OCCUPANT = 2 OCCUPANTS  
TOTAL: 19 OCCUPANTS



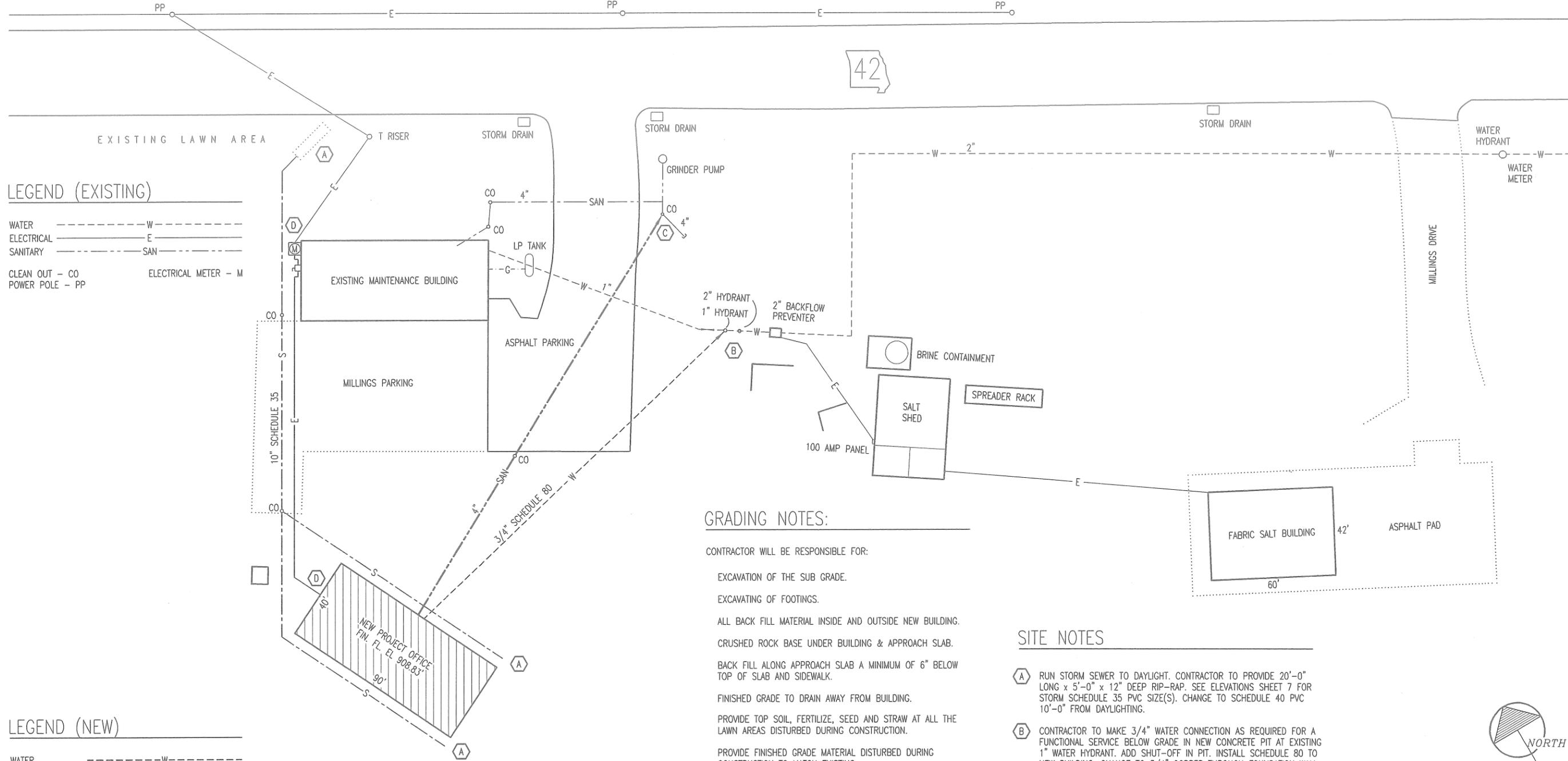
COVER SHEET

MISSOURI DEPARTMENT  
OF TRANSPORTATION  
DIVISION OF GENERAL SERVICES  
FACILITIES MANAGEMENT

Osage Beach Project Office  
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**LEGEND (EXISTING)**

- WATER ----- W
- ELECTRICAL ----- E
- SANITARY ----- SAN
- CLEAN OUT - CO
- POWER POLE - PP
- ELECTRICAL METER - M

**LEGEND (NEW)**

- WATER ----- W
- ELECTRIC 1 PHASE ----- E
- STORM SEWER ----- S
- SANITARY SEWER ----- SAN
- CLEAN OUT - CO

**GRADING NOTES:**

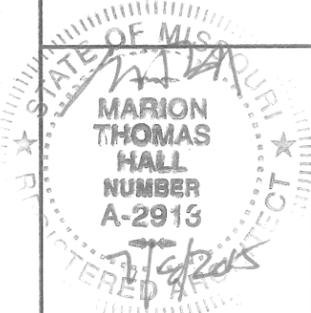
- CONTRACTOR WILL BE RESPONSIBLE FOR:
- EXCAVATION OF THE SUB GRADE.
  - EXCAVATING OF FOOTINGS.
  - ALL BACK FILL MATERIAL INSIDE AND OUTSIDE NEW BUILDING.
  - CRUSHED ROCK BASE UNDER BUILDING & APPROACH SLAB.
  - BACK FILL ALONG APPROACH SLAB A MINIMUM OF 6" BELOW TOP OF SLAB AND SIDEWALK.
  - FINISHED 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.
  - MODOT TO HAVE THE FOUR CORNERS STAKED AND BUILDING FOOTPRINT & EXTERIOR APPROACH SLAB LEVELED TO 10" BELOW FINISHED FLOOR.
  - EXCAVATED SOIL NOT USED CAN BE PLACED ON SITE. AREA TO BE DESIGNATED BY OWNER.

**SITE NOTES**

- (A)** RUN STORM SEWER TO DAYLIGHT. CONTRACTOR TO PROVIDE 20'-0" LONG x 5'-0" x 12" DEEP RIP-RAP. SEE ELEVATIONS SHEET 7 FOR STORM SCHEDULE 35 PVC SIZE(S). CHANGE TO SCHEDULE 40 PVC 10'-0" FROM DAYLIGHTING.
- (B)** CONTRACTOR TO MAKE 3/4" WATER CONNECTION AS REQUIRED FOR A FUNCTIONAL SERVICE BELOW GRADE IN NEW CONCRETE PIT AT EXISTING 1" WATER HYDRANT. ADD SHUT-OFF IN PIT. INSTALL SCHEDULE 80 TO NEW BUILDING. CHANGE TO 3/4" COPPER THROUGH FOUNDATION WALL AND INTO NEW BUILDING.
- (C)** CONTRACTOR TO INSTALL 4" PVC SANITARY SEWER LINE CONNECTING AT THE EXISTING GRINDER PUMP CLEAN-OUT FOR FUNCTIONAL SERVICE TO THE NEW BUILDING. RETAIL A CLEAN-OUT HERE.
- (D)** CONTRACTOR TO INSTALL CONDUCTORS IN CONDUIT WITH DISCONNECT(S) AT EXISTING METER ON EXISTING BUILDING FOR A FUNCTIONAL ELECTRICAL SERVICE TO NEW BUILDING.



**A**  
**2** **SITE PLAN**  
SCALE: 1" = 50'-0"



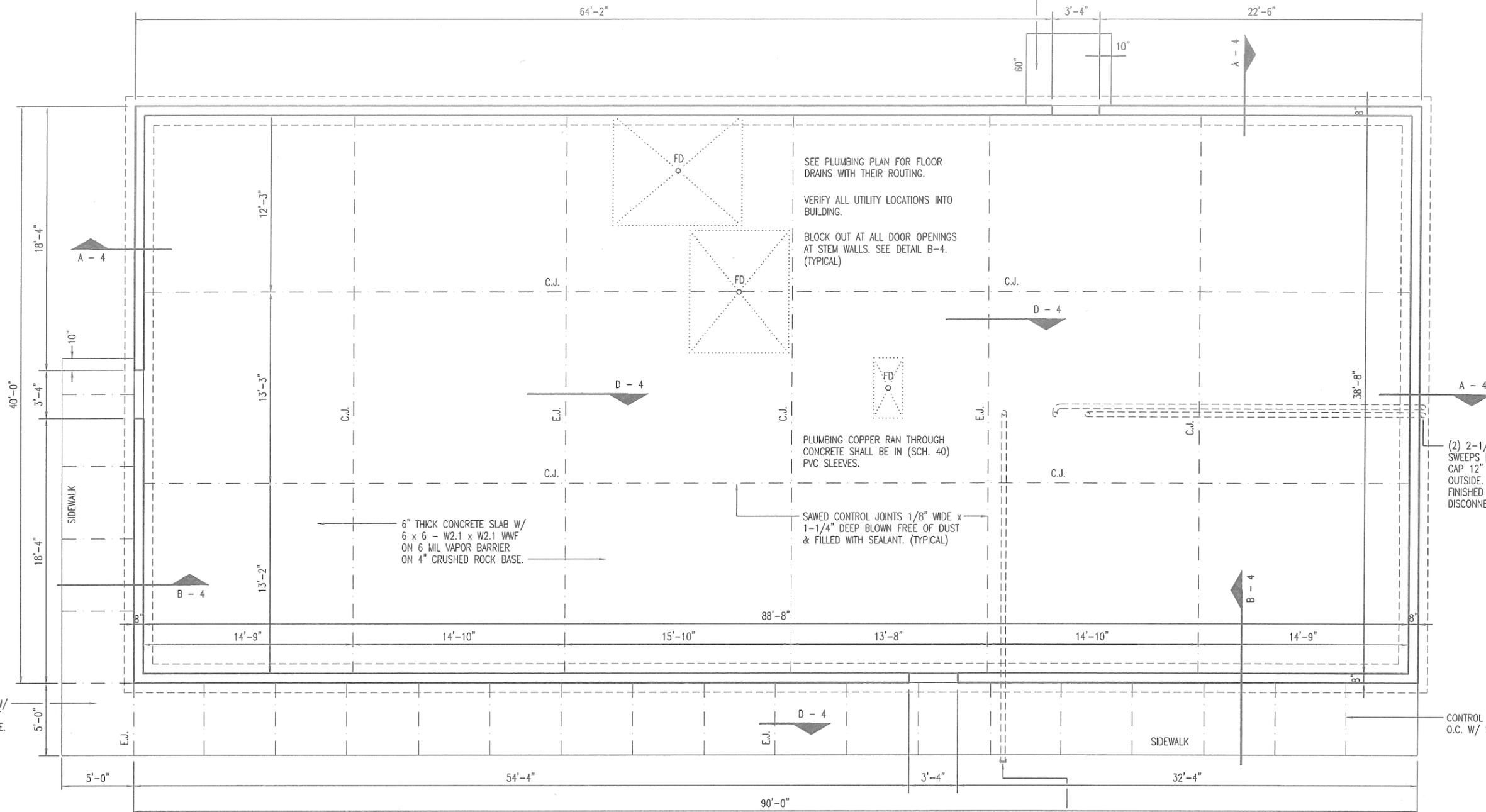
**SITE PLAN**

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DIVISION OF GENERAL SERVICES  
FACILITIES MANAGEMENT

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6'-0" x 5'-0" STOOP:  
 6" THICK CONCRETE SLAB W/  
 6 x 6 - W2.1 x W2.1 WWF  
 ON 4" CRUSHED ROCK BASE.



SEE PLUMBING PLAN FOR FLOOR  
 DRAINS WITH THEIR ROUTING.  
 VERIFY ALL UTILITY LOCATIONS INTO  
 BUILDING.  
 BLOCK OUT AT ALL DOOR OPENINGS  
 AT STEM WALLS. SEE DETAIL B-4.  
 (TYPICAL)

PLUMBING COPPER RAN THROUGH  
 CONCRETE SHALL BE IN (SCH. 40)  
 PVC SLEEVES.

SAWED CONTROL JOINTS 1/8" WIDE x  
 1-1/4" DEEP BLOWN FREE OF DUST  
 & FILLED WITH SEALANT. (TYPICAL)

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

(2) 2-1/2" CONDUITS WITH  
 SWEEPS INTO 108 MECHANICAL  
 CAP 12" A.F.F. SWEEP(S) TO  
 OUTSIDE. CAP 12" ABOVE THE  
 FINISHED GRADE FOR SERVICE  
 DISCONNECTS.

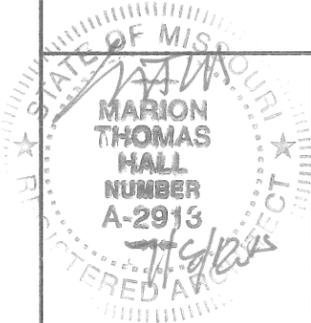
CONTROL JOINTS @ 5'-0"  
 O.C. W/ SEALANT. (TYPICAL)

PROVIDE (1) 4" SCH 40 PVC WITH FIBER  
 OPTIC SWEEPS UP THROUGH 108 MECHANICAL  
 CENTERED NEAR BACK WALL TO 12" A.F.F.  
 EXTEND 5'-0" BEYOND SIDEWALK & CAP 24"  
 BELOW GRADE.

A  
 3

FOUNDATION PLAN

SCALE: 1/8" = 1'-0"

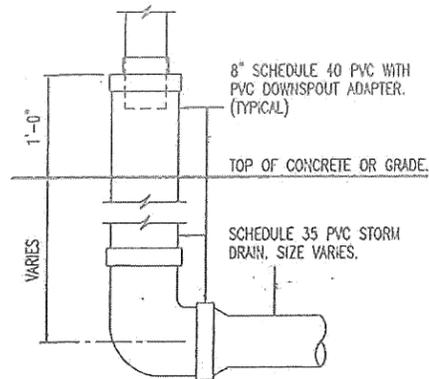


FOUNDATION PLAN

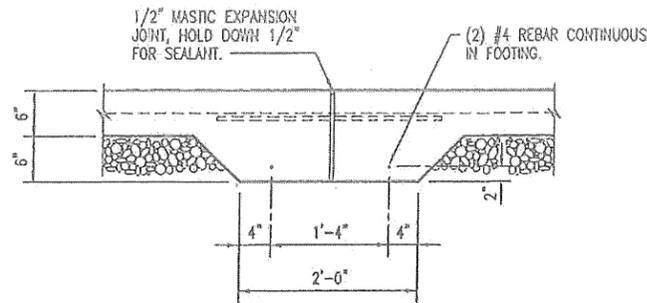
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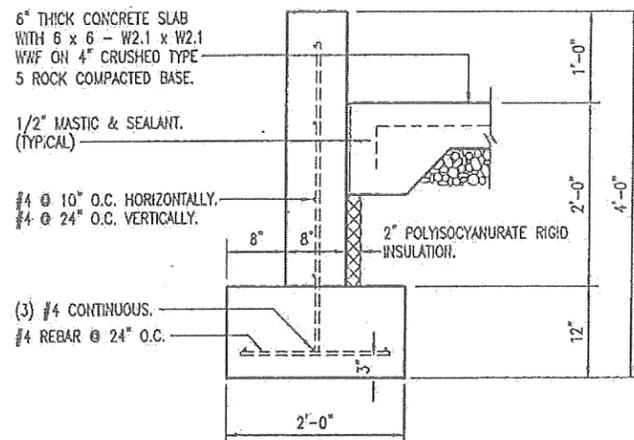
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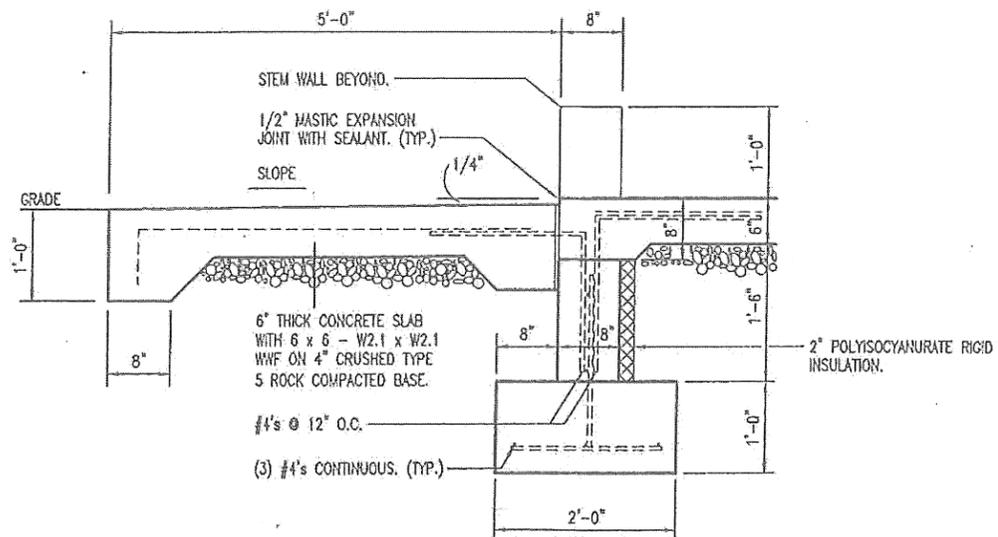
**C**  
4 **DOWNSPOUT ADAPTER**  
SCALE: 1/2" = 1'-0"



**D**  
4 **EXPANSION JOINT**  
SCALE: 1/2" = 1'-0"



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



**B**  
4 **CONCRETE STOOP SECTION**  
SCALE: 1/2" = 1'-0"

**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 AND NOT TO EXCEED 4" 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" POLYISOCYANURATE RIGID INSULATION BOARD.
13. SAWED CONTROL JOINTS SHALL BE CLEANED FREE OF ALL DEBRIS AND FILLED WITH SEALANT. SEE SECTION 07900.
14. COPPER PIPING RUN THROUGH CONCRETE WORK SHALL BE RUN THROUGH PVC SLEEVES.
15. ALL CONCRETE STEM WALLS TO MONOLITHICALLY POURED.



**FOUNDATION DETAILS**

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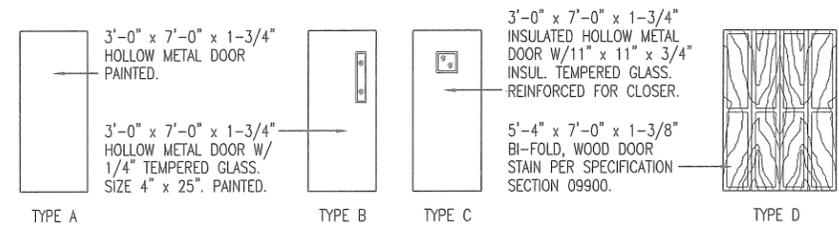
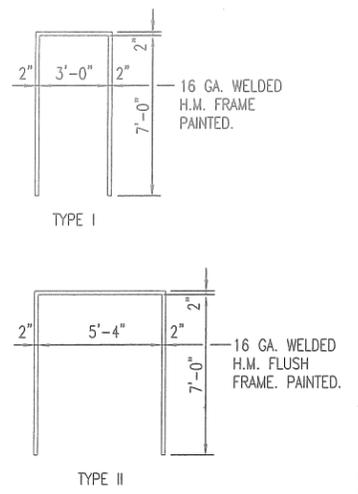
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### DOOR SCHEDULE

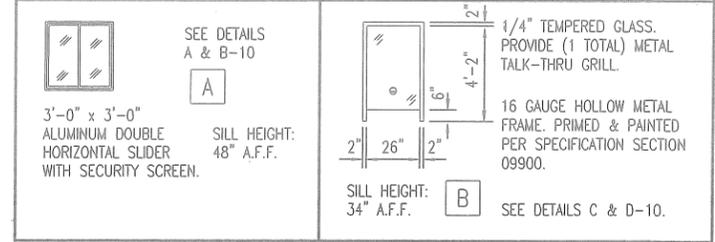
NO.	SIZE	SWING	DR. TYPE	FRM. TYPE	DETAIL	DEPTH	HDWR. GRP.
1	3'-0" x 7'-0" x 1-3/4"	LHR	C	I	A-11	5-7/8"	1
2	3'-0" x 7'-0" x 1-3/4"	LHR	B	I	E-10	5-7/8"	4
3	3'-0" x 7'-0" x 1-3/4"	RH	A	I	E-10	5-7/8"	3
4	3'-0" x 7'-0" x 1-3/4"	LH	B	I	E-10	5-7/8"	3
5	3'-0" x 7'-0" x 1-3/4"	LHR	B	I	E-10	5-7/8"	4
6	(4) 1'-0" x 7'-0" x 1-3/8"	BIFOLD	D	II	F-10	5-7/8"	5
7	(4) 1'-0" x 7'-0" x 1-3/8"	BIFOLD	D	II	F-10	5-7/8"	5
8	(4) 1'-0" x 7'-0" x 1-3/8"	BIFOLD	D	II	F-10	5-7/8"	5
9	3'-0" x 7'-0" x 1-3/4"	LHR	B	I	A-11	5-7/8"	1
10	3'-0" x 7'-0" x 1-3/4"	LH	B	I	E-10	5-7/8"	3
11	3'-0" x 7'-0" x 1-3/4"	RH	B	I	E-10	5-7/8"	3
12	3'-0" x 7'-0" x 1-3/4"	RH	A	I	G-10	5-7/8"	2
13	3'-0" x 7'-0" x 1-3/4"	RH	A	I	G-10	5-7/8"	2
14	3'-0" x 7'-0" x 1-3/4"	LHR	B	I	A-11	5-7/8"	1
15	3'-0" x 7'-0" x 1-3/4"	LHR	B	I	E-10	5-7/8"	4



### FINISH SCHEDULE

NO.	ROOM	FLOOR	WALLS	BASE	CEILING
		CARPET TILE.	VINYL COMPOSITION TILE (VCT)	5/8" GYPSUM BOARD, 5/8" GREEN GYP. BD. PAINTED.	4" VINYL.
					ACOUSTICAL CEILING TILE @ 8'-0" A.F.F.
101	ENTRY				
102	HALLWAY				
103	RECEPTIONIST				
104	STORAGE				
105	OFFICE				
106	CONFERENCE				
107	BREAK ROOM				
108	MECHANICAL				
109	OFFICE				
110	OFFICE				
111	REST ROOM (RR)				
112	REST ROOM (RR)				
113	CUBICLES				

### WINDOW SCHEDULE

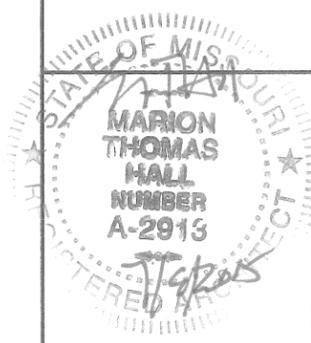


### GENERAL NOTES:

CONTRACTOR TO FURNISH ALL NECESSARY FLASHING AND TRIM TO PROVIDE A NEAT, WEATHERPROOF FIT AT ALL DOORS, WINDOWS, CORNERS & ANY LOCATION WHERE THE METAL PANELS MAY BE CUT.

### HVAC SCHEDULE

SYM.	UNIT	MANUFACTURER	BTU OUTPUT	FUEL	VOLTAGE	REMARKS
A	UP FLOW, SPLIT SYSTEM ELECTRIC AIR HANDLER	TRANE GAM2A0C060SE1SE OR EQUAL.	60,000	ELECTRIC	208/230	5-TON, 16 SEER, 60A BREAKER. HEATER BAYEAAC10BK1BA
B	CONDENSING UNIT	TRANE MODEL 4TR6061C1000 OR EQUAL	60,000	ELECTRIC	208/230	3-TON, PURON 208/1-PHASE. 16 SEER. 77 RL-LR AMPS, 30A BREAKER
C	THERMOSTAT	TRANE OR EQUAL	--	--	--	7 DAY PROGRAMMABLE.

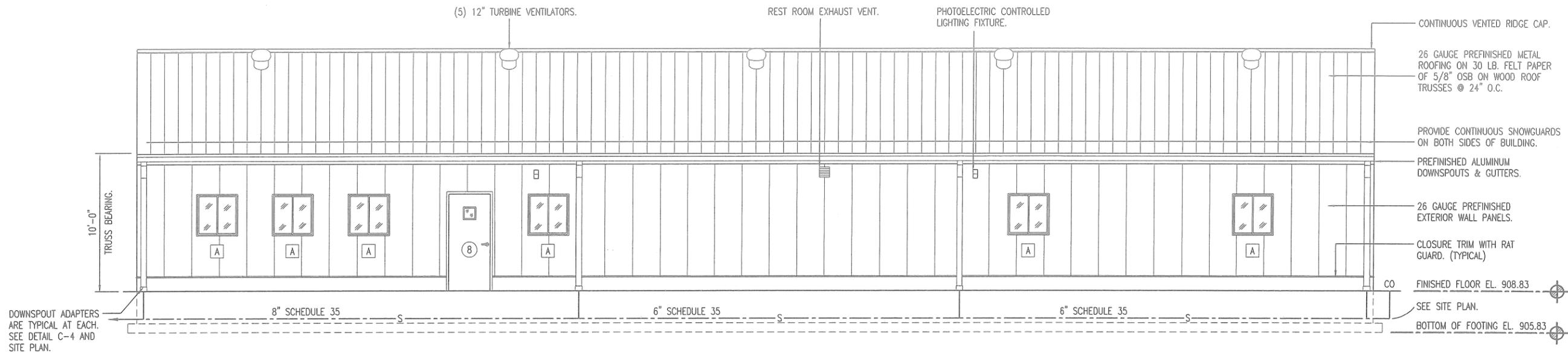


# SCHEDULES

MISSOURI DEPARTMENT OF TRANSPORTATION  
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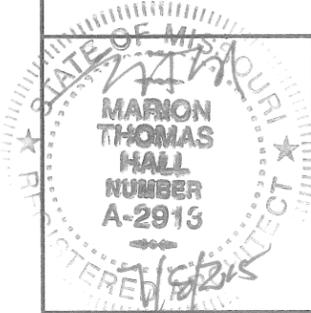
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B WEST ELEVATION  
7 SCALE: 1/8" = 1'-0"



A EAST ELEVATION  
7 SCALE: 1/8" = 1'-0"

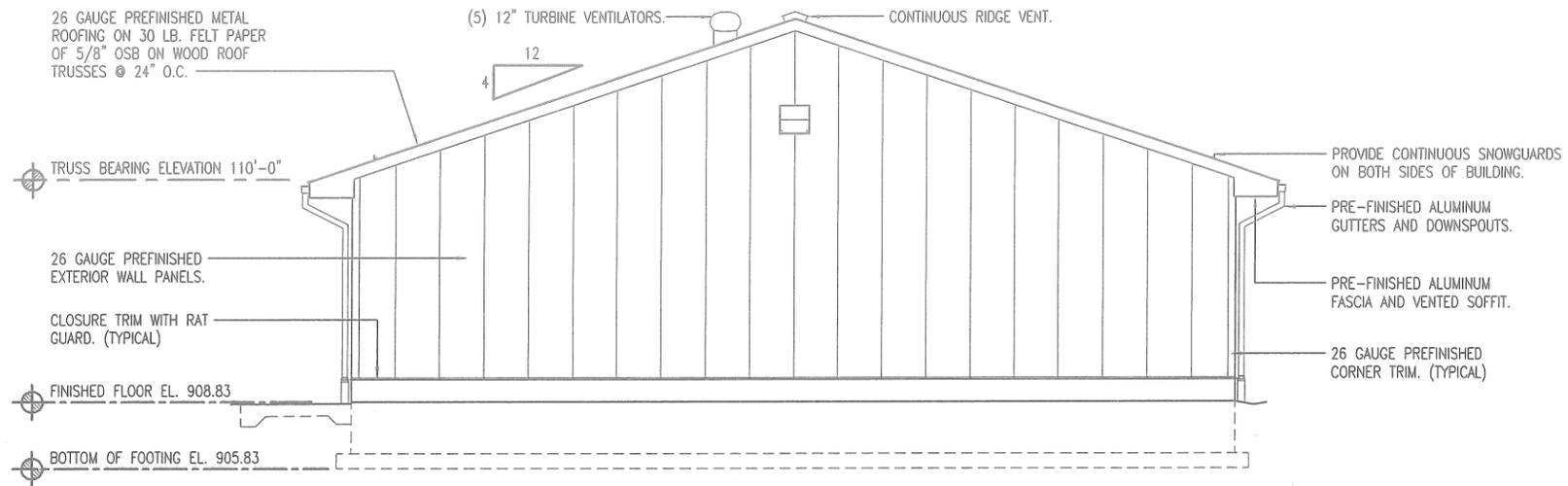


# EAST & WEST ELEVATIONS

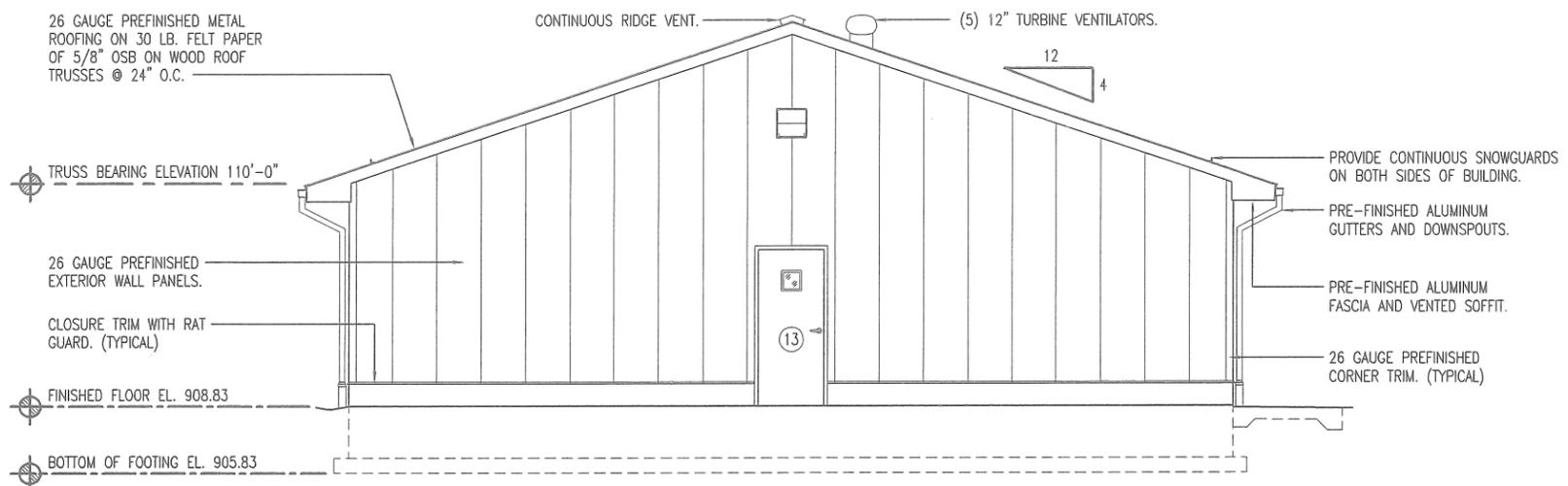
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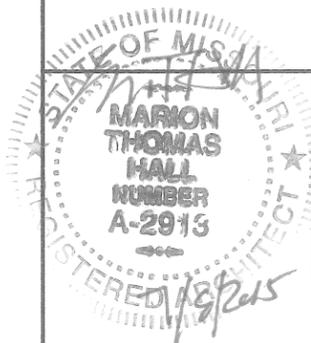
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**B** NORTH ELEVATION  
 8 SCALE: 1/8" = 1'-0"



**A** SOUTH ELEVATION  
 8 SCALE: 1/8" = 1'-0"

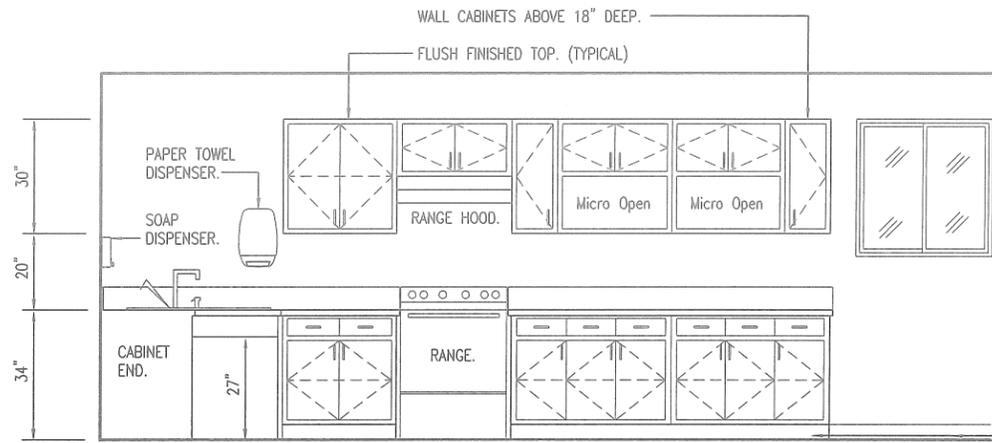


# NORTH & SOUTH ELEVATIONS

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**CABINET CONSTRUCTION**

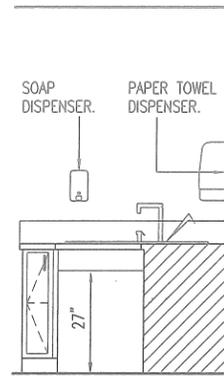
CABINETS - PLASTIC LAMINATE ON 3/4" HIGH DENSITY PARTICLE BOARD WITH WHITE MELAMINE INTERIORS, WIRE PULLS AND ADJUSTABLE SHELVES.

ALL DRAWERS TO HAVE METAL GLIDES, WIRE PULLS AND MELAMINE INTERIORS.  
 POST FORM COUNTER WITH THAT HAS AN INTEGRAL 4" BACKSPLASH.

GENERAL CONTRACTOR TO PROVIDE MOUNTING BLOCKING AS REQUIRED BEFORE INSTALLATION OF GYPSUM BOARD.

LOWER CABINETS ARE 24" DEEP.

4" VINYL BASE. (TYPICAL)



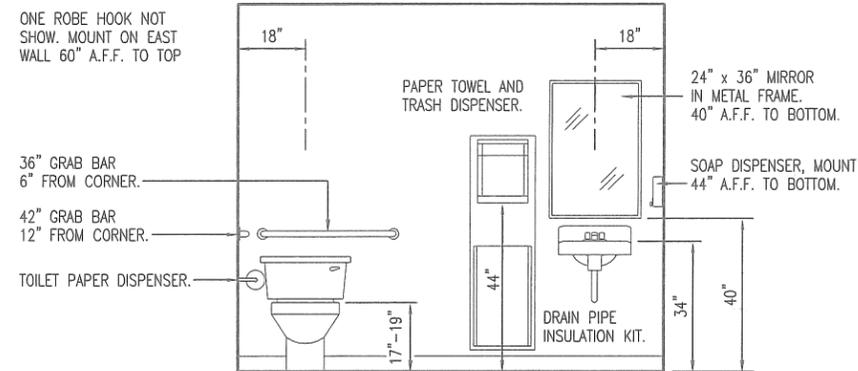
48" SINK CORNER CABINET WITH ADA OPEN SPACE FRONT.  
 30" UPPER 2-DOOR  
 30" UPPER 2-DOOR  
 30" UPPER, 12" UPPER 2-DOOR 1-DOOR  
 30" UPPER, 12" UPPER 2-DOOR 1-DOOR  
 30" BASE 2-DRAWER 2-DOOR  
 42" BASE 3-DRAWER 3-DOOR  
 42" BASE 3-DRAWER 3-DOOR

PROVIDE DRAIN PIPE INSULATION KIT.  
 PROVIDE GARBAGE DISPOSAL. SEE PLUMBING FIXTURE SCHEDULE.

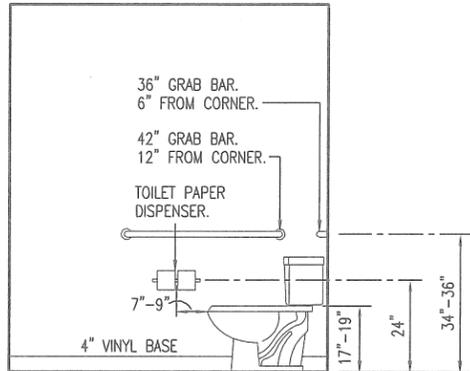
**E CASEWORK ELEVATION**  
 SCALE: 1/4" = 1'-0"

**F CASEWORK ELEVATION**  
 SCALE: 1/4" = 1'-0"

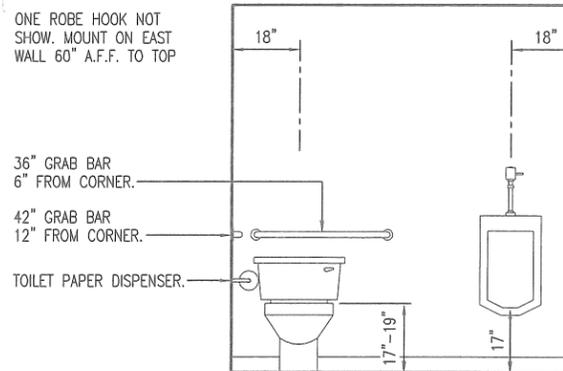
PROVIDE BLOCKING FOR ALL ACCESSORIES  
 COMPLY WITH 2010 ADA MOUNTING HEIGHTS



**A RESTROOM ELEVATION**  
 SCALE: 1/4" = 1'-0"

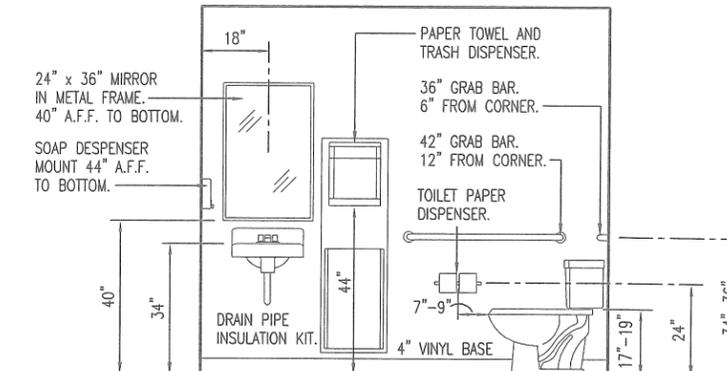


**B REST ROOM ELEVATION**  
 SCALE: 1/4" = 1'-0"

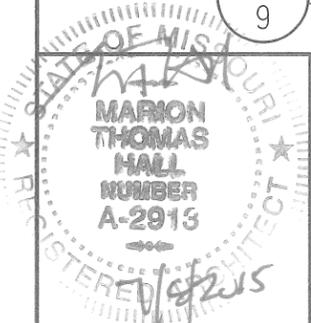


**C RESTROOM ELEVATION**  
 SCALE: 1/4" = 1'-0"

SOAP DISPENSER, MOUNT 44" A.F.F. TO BOTTOM.



**D REST ROOM ELEVATION**  
 SCALE: 1/4" = 1'-0"

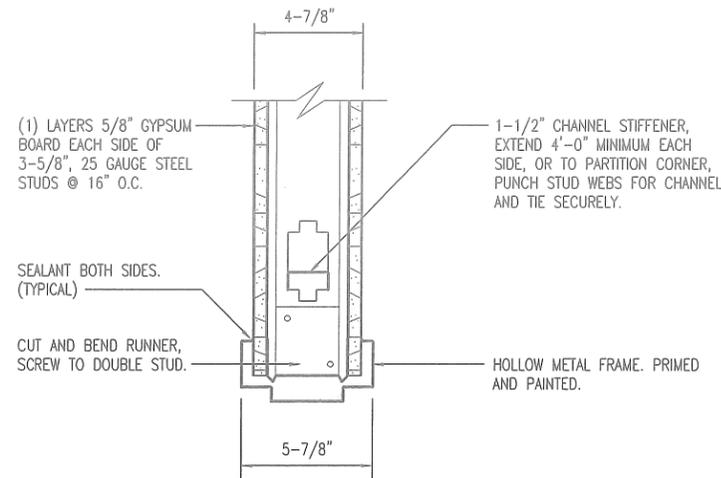


**INTERIOR ELEVATIONS**

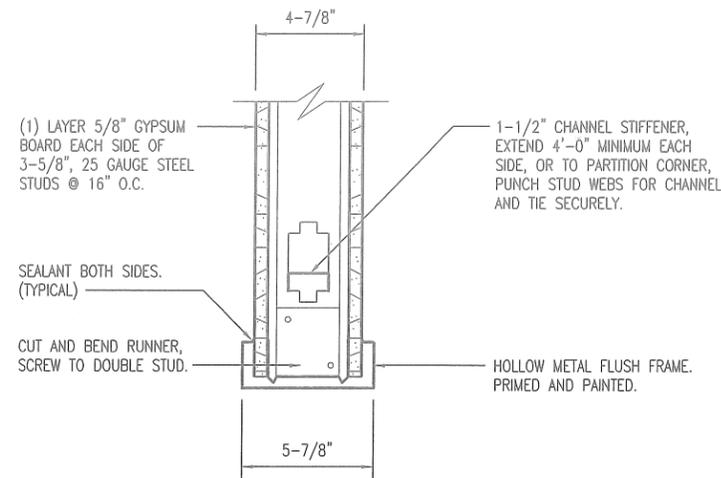
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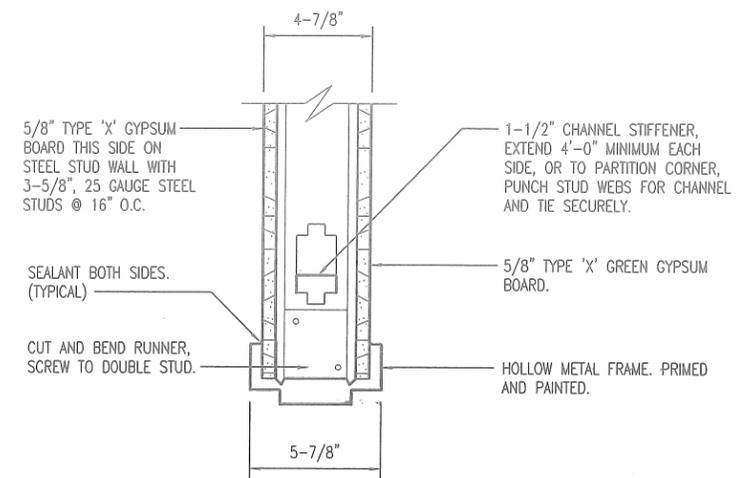
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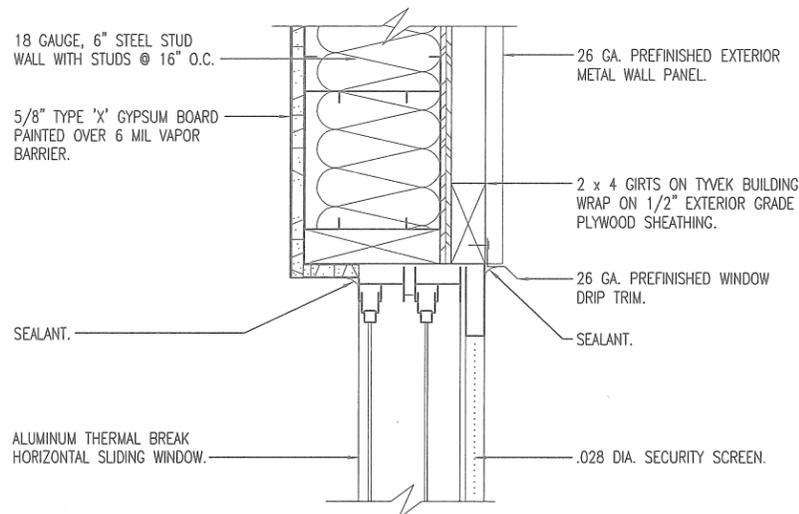
**E**  
10  
DOOR HEAD/JAMB  
SCALE: 1-1/2" = 1'-0"  
SOUND BATT INSULATION NOT SHOWN.



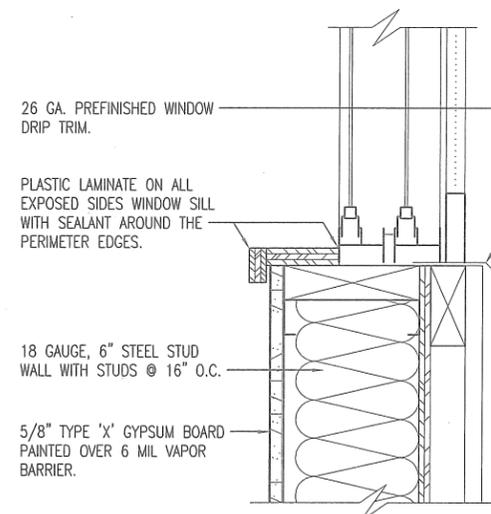
**F**  
10  
DOOR HEAD/JAMB  
SCALE: 1-1/2" = 1'-0"  
SOUND BATT INSULATION NOT SHOWN.



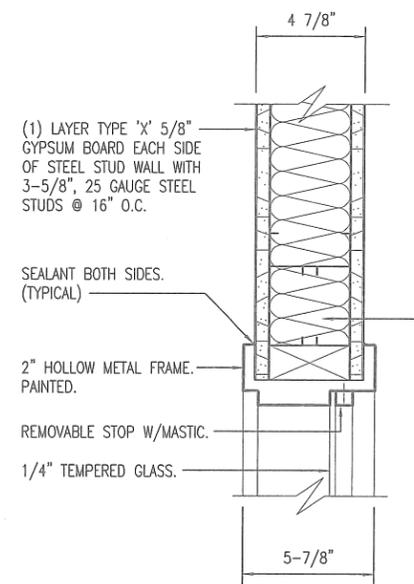
**G**  
10  
DOOR HEAD/JAMB  
SCALE: 1-1/2" = 1'-0"  
SOUND BATT INSULATION NOT SHOWN.



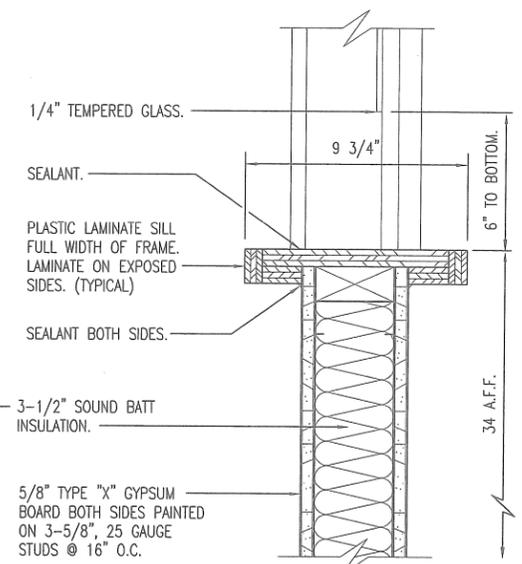
**A**  
10  
WINDOW HEAD/JAMB  
SCALE: 1-1/2" = 1'-0"



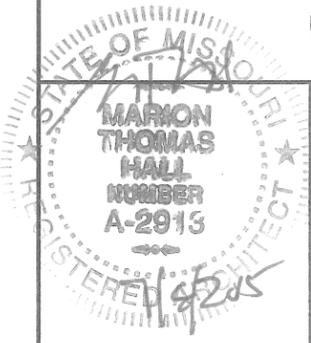
**B**  
10  
WINDOW SILL  
SCALE: 1-1/2" = 1'-0"



**C**  
10  
RECEPTIONIST WINDOW  
WINDOW HEAD/JAMB  
SCALE: 1-1/2" = 1'-0"



**D**  
10  
RECEPTIONIST WINDOW  
WINDOW SILL  
SCALE: 1-1/2" = 1'-0"

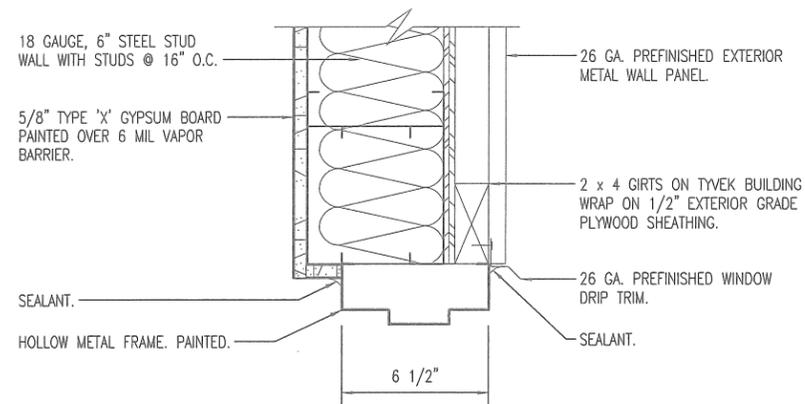


# HEAD & JAMB DETAILS

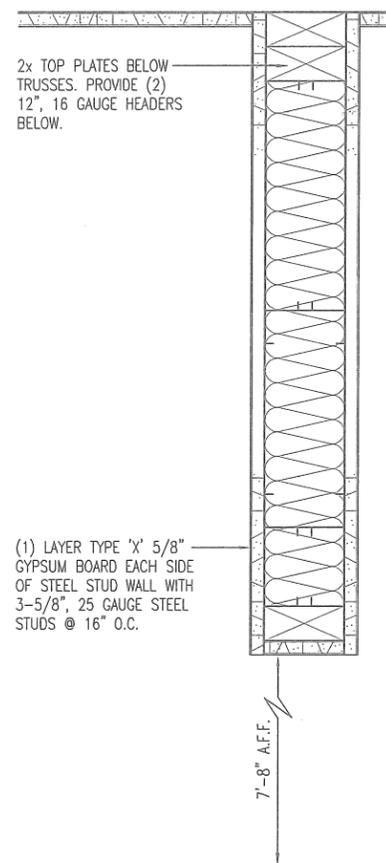
MISSOURI DEPARTMENT  
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FACILITIES MANAGEMENT

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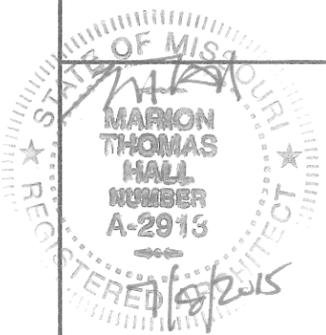
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**A** DOOR HEAD/JAMB  
11 SCALE: 1-1/2" = 1'-0"



**B** CEILING HEADER  
11 SCALE: 1-1/2" = 1'-0"

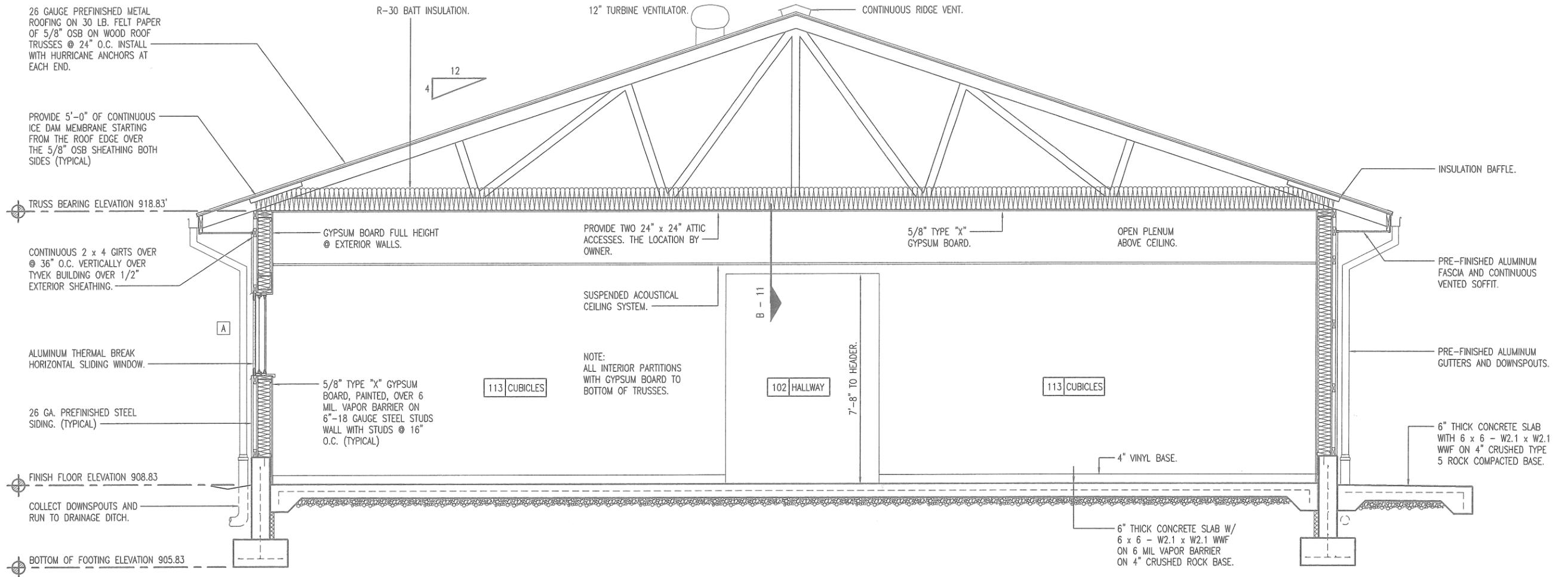


# HEAD & JAMB DETAILS

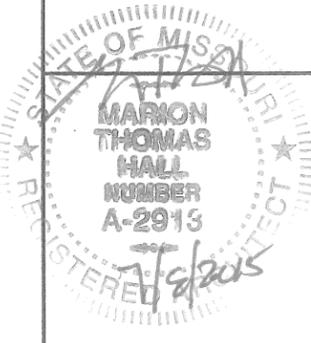
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**A** BUILDING SECTION  
 12 SCALE: 1/4" = 1'-0"

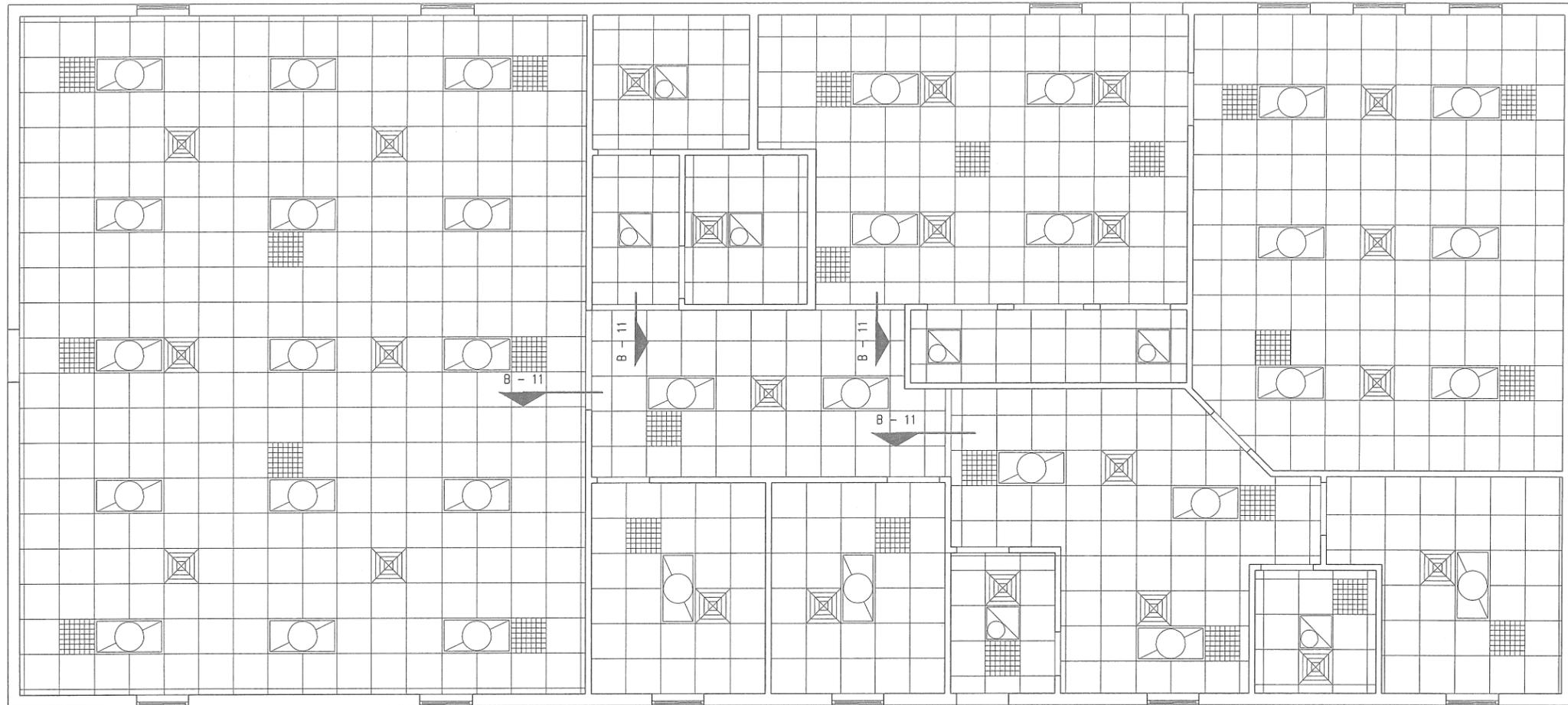


**BUILDING SECTION**

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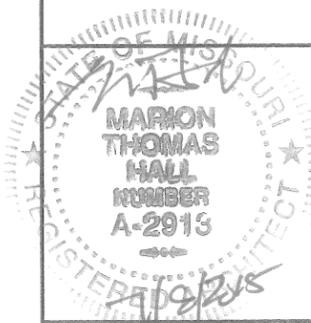
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 DRAWN BY: LARRY CARVER  
 DATE: 6-29-15  
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A  
13

REFLECTED CEILING PLAN

SCALE: 1/8" = 1'-0"

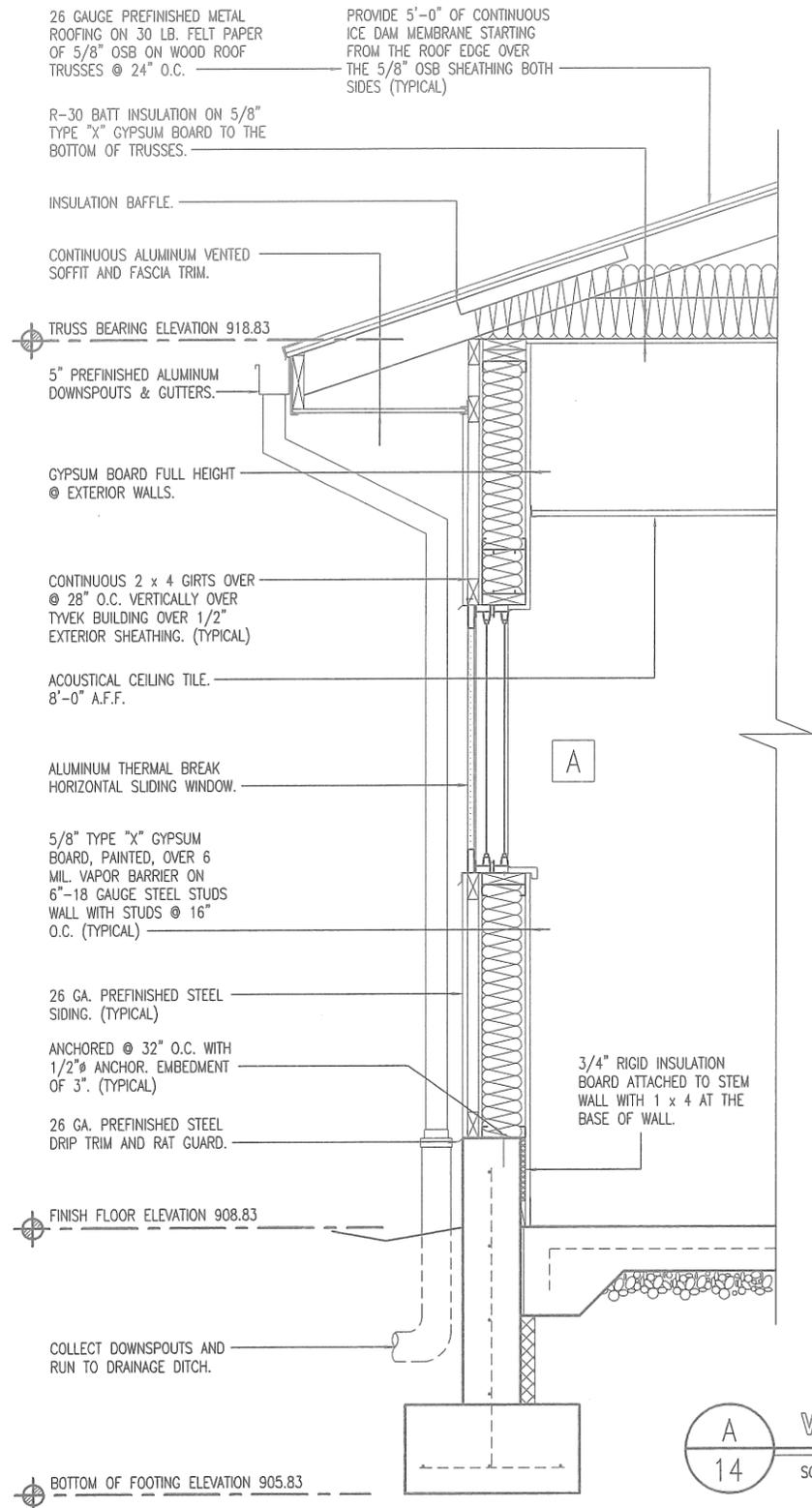


REFLECTED CEILING PLAN

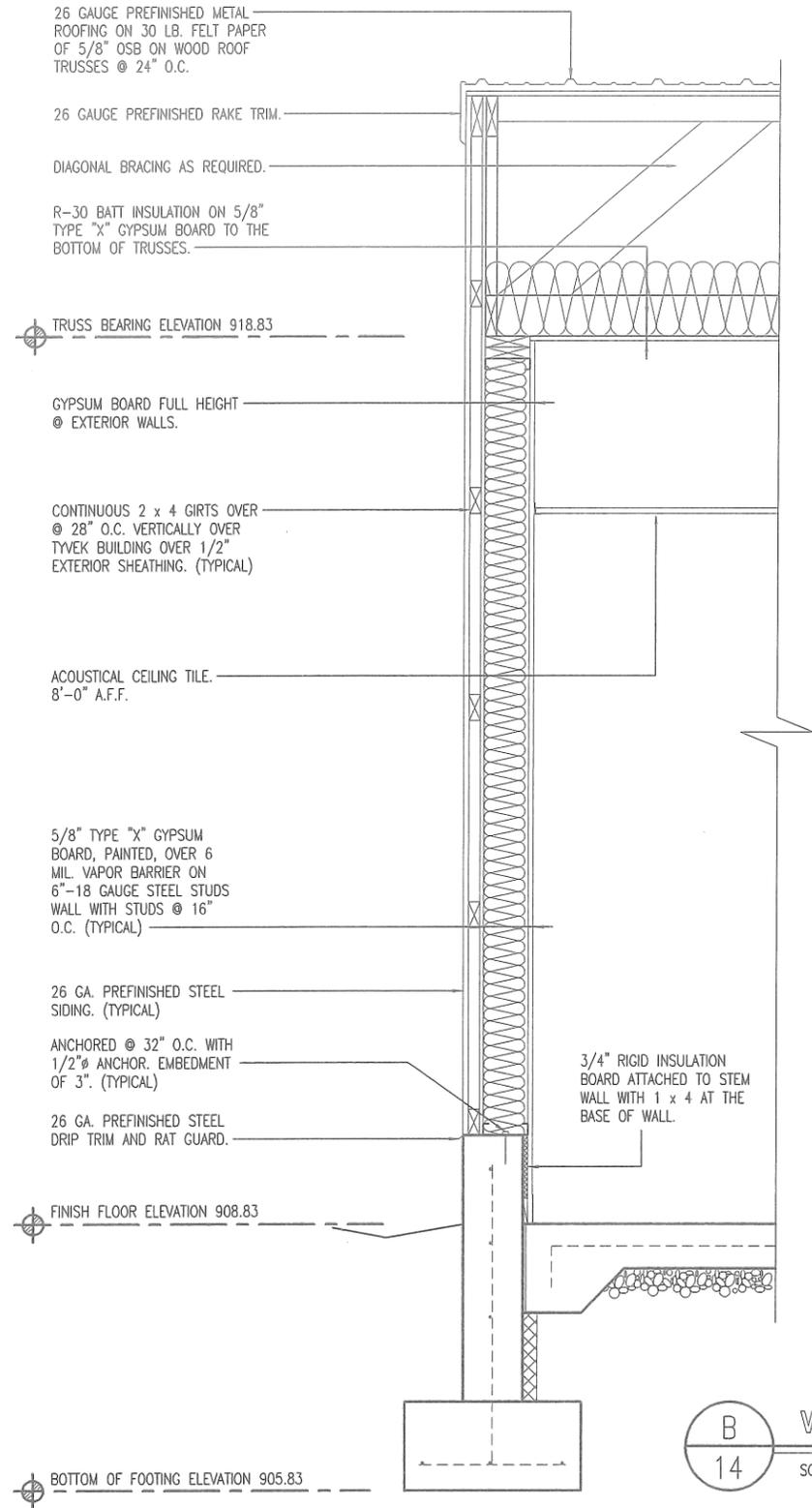
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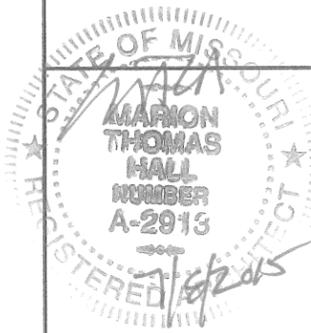


**A** WALL SECTION  
 14 SCALE: 1/2" = 1'-0"



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

**WALL SECTIONS**

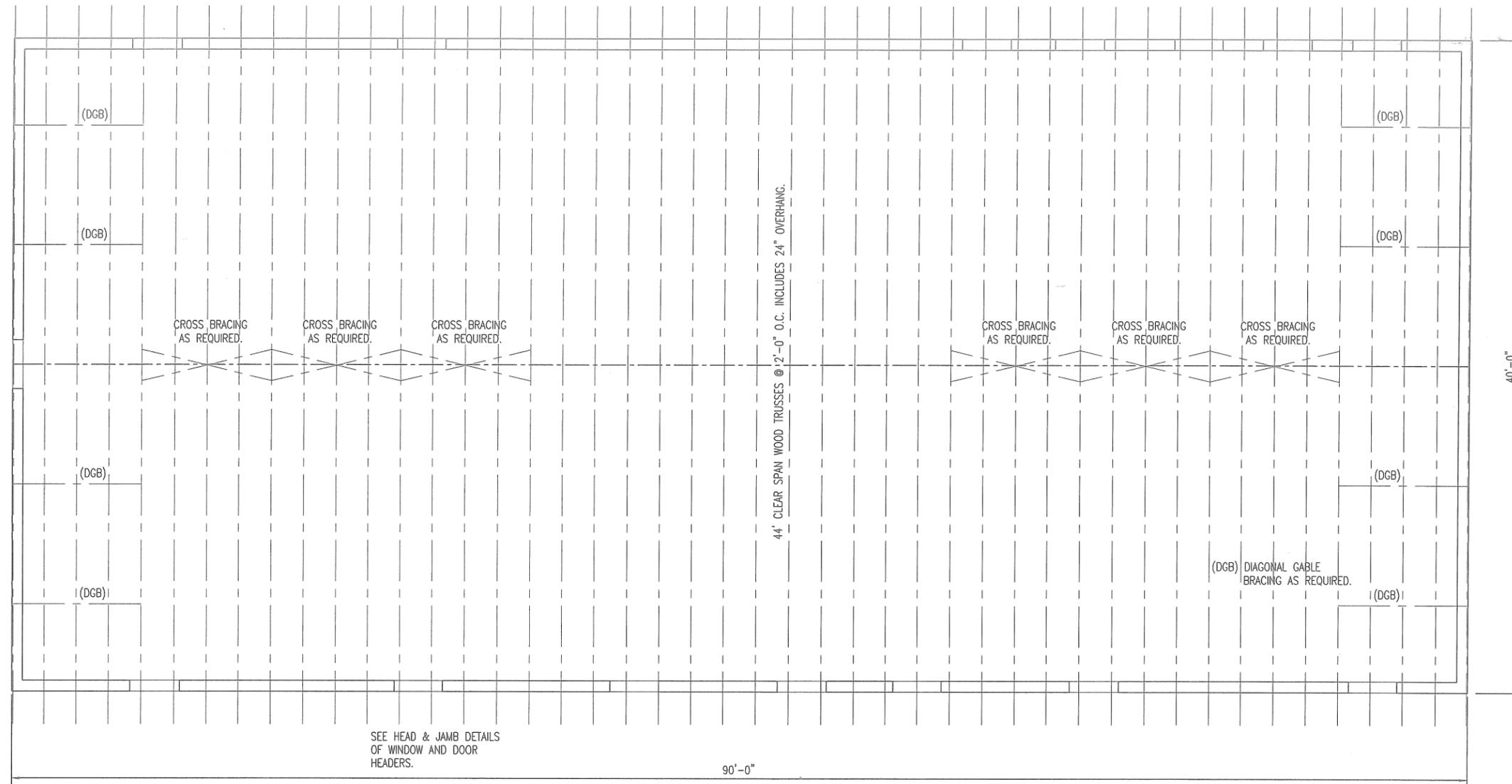


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SEE HEAD & JAMB DETAILS  
OF WINDOW AND DOOR  
HEADERS.



SEE HEAD & JAMB DETAILS  
OF WINDOW AND DOOR  
HEADERS.

90'-0"

40'-0"

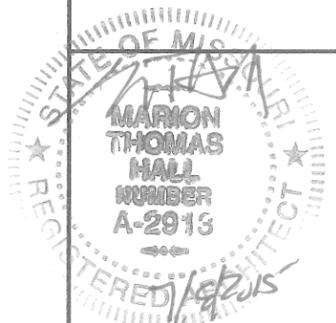
**A**  
**15** ROOF FRAMING PLAN  
SCALE: 1/8" = 1'-0"



**ROOF FRAMING NOTES**

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

ROOF LIVE LOAD	25 PSF
ROOF DEAD LOAD	4 PSF
BOTTOM CORD DEAD LOAD	5 PSF
EARTHQUAKE	ZONE 1, LATEST EDITION IBC
WIND	90 MPH, EXPOSURE B
DEFLECTION	L/360
SPACING	24" 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.

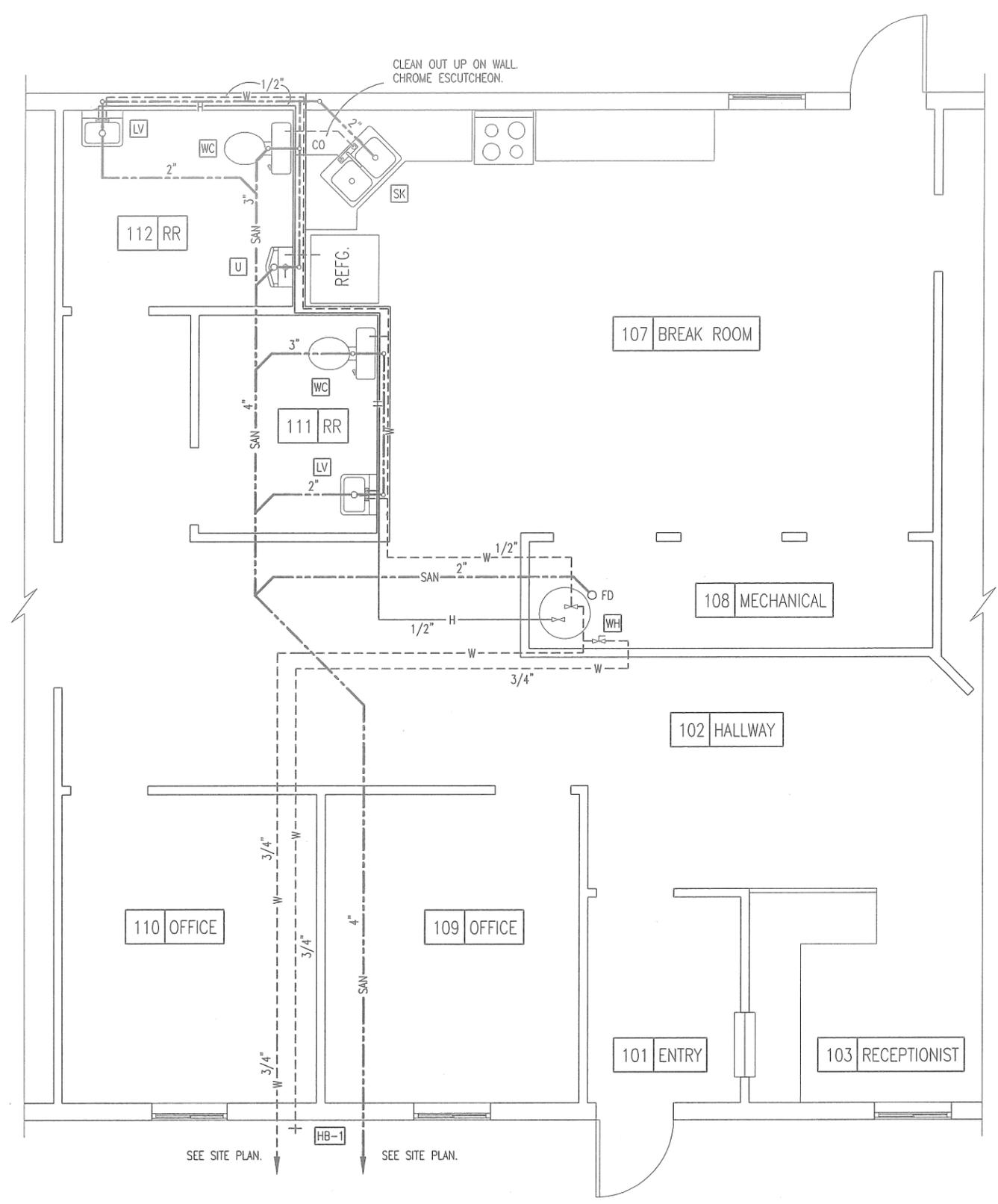


**ROOF FRAMING PLAN**

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SEE SHEET 18 FOR PLUMBING SCHEDULE & NOTES.

**LEGEND**

HOT WATER	— H —
WATER	- - - W - - -
SANITARY SEWER	- - - SAN - - -
CLEANOUT	C.O.

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

NORTH



# PLUMBING PLAN

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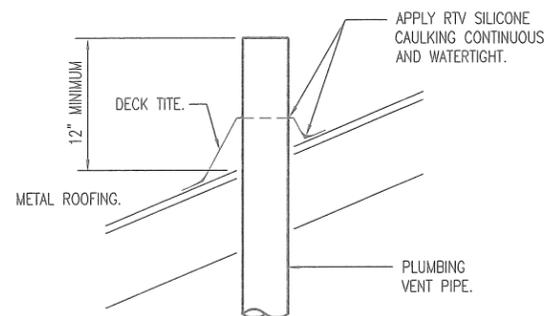
PLUMBING SCHEDULE						
SYM.	FIXTURE	PIPE CONNECTION				REMARKS
		CW	HW	S&W	VENT	
WC	WATER CLOSET	1/2"		3"	2"	EQUAL TO AMERICAN STANDARD #2377.100 FLOOR MOUNT. PRESSURE ASSISTED, ELONGATED WATER-SAVER "CADET" WATER CLOSET. 16-1/2" HIGH 3109.016 BOWL, 4098.100 TANK. INCLUDE OPEN FRONT SEAT WITH LID. (WHITE)
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 SYMMONS SYMMETRIX S-20-2-BH SINGLE LEVER LAVATORY FAUCET. INCLUDE AN ADA APPROVED INSULATION KIT.
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.
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.)
FD	FLOOR DRAIN			2"		PVC FLOOR DRAIN WITH P-TRAP, 6-1/2" DIA. NICKLE-BRONZE STRAINER, 2" FIP THREADED THROAT-BALL BACKWATER DEVICE. 1-1/2" PRE-INSTALLED FIP CLEAN-OUT THREADS.
CO	CLEAN OUT					BRASS WITH ADAPTER AND CAP EQUAL TO PIPE SIZE SHOWN.
SK	SINK	1/2"	1/2"	2"	2"	EQUAL TO ELKAY MODEL PSR-3321 DOUBLE BOWL SINK WITH STANDARD 4 HOLE PATTERN AND ELKAY MODEL LK-4301-F CHROME FAUCET, SPOUT, SWIVEL AERATOR AND SPRAY. PROVIDE INSINKERATOR EVOLUTION 3/4 HP, 8.1 AMP, GARBAGE DISPOSAL.

### MECHANICAL NOTES

- DRAWINGS AND DIAGRAMS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
- MECHANICAL WORK SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE IBC MECHANICAL CODE.
- PROVIDE EQUIPMENT AND APPURTENANCES NOT NECESSARILY SHOWN OR SPECIFIED BUT NEEDED FOR COMPLETE AND PROPER INSTALLATION.
- ALL EQUIPMENT AND MATERIALS, IN PARTICULAR VALVES, FILTERS, MOTORS, AND CONTROLS SHALL BE ARRANGED TO PROVIDE PROPER CLEARANCE FOR SERVICE, MAINTENANCE AND INSPECTION.
- MECHANICAL SUBCONTRACTOR SHALL FULLY COORDINATE ALL WORK WITH PLUMBING AND ELECTRICAL WORKERS PRIOR TO COMMENCING OF THE MECHANICAL INSTALLATION.
- PROVIDE BLOCKING TO HVAC DEVICES AS REQUIRED FOR A SECURE APPLICATION.
- MECHANICAL CONTRACTOR TO PROVIDE ALL DEVICES REQUIRED FOR A FUNCTIONAL SYSTEM.
- BOTH AIR HANDLERS TO HAVE BUILT-IN HUMIDIFIER AND ELECTRONIC AIR FILTERS. WATER TO HUMIDIFIERS AS REQUIRED. DRAINAGE TO THE 108 MECHANICAL FLOOR DRAIN IN PVC AS REQUIRED.

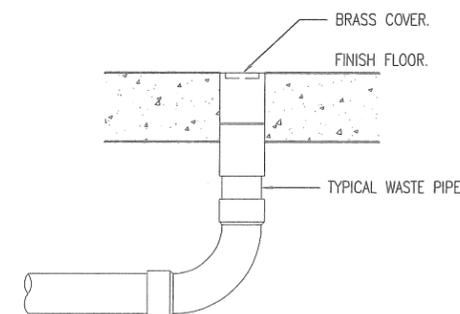
### PLUMBING NOTES

- DRAWINGS AND DIAGRAMS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
- PLUMBING SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE INTERNATIONAL PLUMBING CODE.
- 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.
- PROVIDE PLUMBING EQUIPMENT AND ACCESSORIES REQUIRED FOR COMPLETE AND OPERATIONAL PLUMBING SYSTEMS AS REQUIRED BY MANUFACTURER'S INSTRUCTIONS AND DIRECTIONS FOR SYSTEMS SPECIFIED.
- PLUMBING VENTS ARE NOT SHOWN ON THE PLANS. ALL FIXTURES SHALL BE PROPERLY VENTED AS PER IBC PLUMBING CODE.
- ROOF VENTS SHALL BE COMBINED WHEREVER IN COMPLIANCE WITH THE NATIONAL PLUMBING CODE TO MINIMIZE ROOF PENETRATIONS.
- PROVIDE SHUT OFF VALVES AT EACH FIXTURE.
- PROVIDE SHOCK ABSORBERS AS REQUIRED AT EACH FAUCET.
- SEE MECHANICAL PLAN FOR GAS PIPING AND MECHANICAL REQUIREMENTS.
- CONTRACTOR TO PROVIDE CAST IRON VENT PIPING IN PLENUM AS REQUIRED BY CODE. SECURE AS REQUIRED.
- EXTERIOR BELOW GROUND WATER DISTRIBUTION PIPING SHALL RUN A MINIMUM OF 36" BELOW FINISH GRADE.
- PROVIDE BLOCKING TO ALL FIXTURES AS REQUIRED FOR A SECURE APPLICATION.
- PROVIDE 3/8" COPPER WATER LINE TO REFRIGERATOR WITH SHUT-OFF AS REQ'D. FOR THE REFRIGERATOR'S ICE MAKER. SHUT-OFF TO BE INSIDE WALL COVERED BY KARP BRAND 8" x 8" HANDI-ACCESS PLASTIC ACCESS PANEL. WATER LINE TO BE THROUGH FINISHED WALL WITH CHROME ESCUTCHEON.



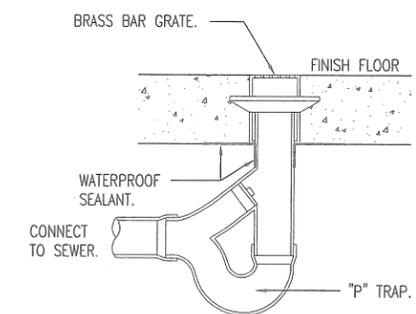
**VENT THROUGH ROOF DETAIL**

SCALE: NONE



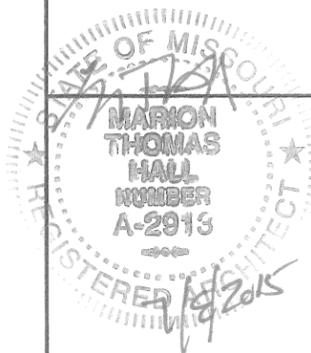
**FLOOR CLEANOUT DETAIL**

SCALE: NONE



**FLOOR DRAIN DETAIL**

SCALE: NONE



# Plumbing & Mechanical Notes

MISSOURI DEPARTMENT  
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DIVISION OF GENERAL SERVICES  
FACILITIES MANAGEMENT

A  
18

## PLUMBING & MECHANICAL NOTES

SCALE: NONE

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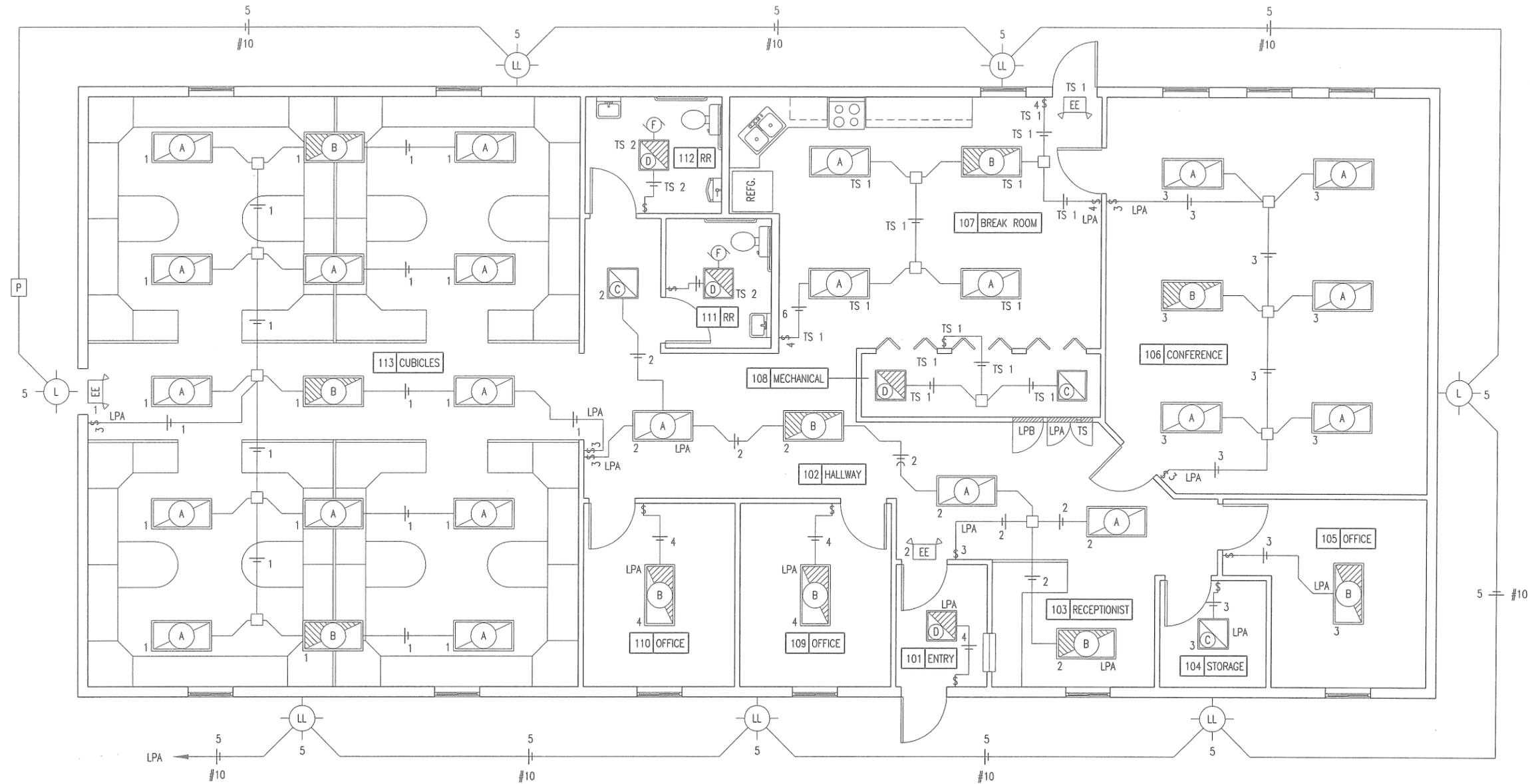
# LEGEND

- ⌚ SINGLE POLE SWITCH, FLUSH MOUNTED IN FINISHED AREAS @ 48" A.F.F.
- ⌚ 3-WAY SWITCH, FLUSH MOUNTED IN FINISHED AREAS @ 48" A.F.F.,
- ⌚ 4-WAY SWITCH, FLUSH MOUNTED IN FINISHED AREAS @ 48" A.F.F.,
- ⌚ QUAD-PLEX RECEPTACLE FLUSH MOUNTED IN FINISHED AREAS @ 42" A.F.F. TO BOTTOM OF OUTLET.
- ⌚ DUPLEX RECEPTACLE FLUSH MOUNTED IN FINISHED AREAS @ 18" A.F.F. TO BOTTOM OF OUTLET.

- ⌚ DEDICATED RECEPTACLE FLUSH MOUNTED IN FINISHED AREAS @ 18" A.F.F. TO BOTTOM OF OUTLET.
- ⌚ GFI DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTER.
- ⌚ VOICE AND DATA OUTLET FLUSH MOUNTED IN FINISHED AREAS @ 18" A.F.F. TO BOTTOM OF OUTLET.
- ⌚ NO FUSED DISCONNECT SWITCH.
- ⌚ JUNCTION BOX, SIZE FOR WIRE, FILL ACCORDING TO ARTICLE 314-16 OF THE N.E.C.

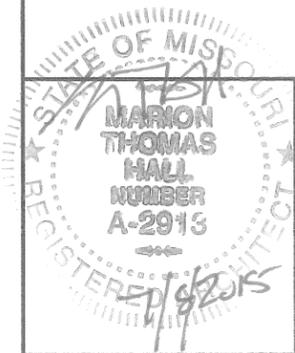
⌚ 240 OUTLET FOR STOVE. CONDUCTORS IN CONDUIT AS REQUIRED. MOUNT AS REQUIRED.

- #12 COPPER NEUTRAL CONDUCTOR UNLESS NOTED.
- #12 COPPER PHASE CONDUCTORS UNLESS NOTED.
- 1/2" EMT UNLESS NOTED.
- #12 COPPER GROUNDING CONDUCTOR UNLESS NOTED.



**A** LIGHTING PLAN  
19 SCALE: 1/8" = 1'-0"

SEE ELECTRICAL SCHEDULE & NOTES SHEET 21.



# LIGHTING PLAN

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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 7123 VA B PHASE 6424 VA TOTAL 13547 VA 56 A		
CIR	SERVICE	VA	BKR		BKR	VA	SERVICE		CIR
1	LIGHTS - 113	766	20A1P	A	20A1P	281	LIGHTS - 103		2
3	LIGHTS - 105 105 & 106	382	20A1P	B	20A1P	127	LIGHTS - 101, 109 & 110		4
5	EXTERIOR LIGHTS	161	20A1P	A	20A1P	180	DEDICATED RECEPTACLE		6
7	113 - DEDICATED RECEPTACLE	180	20A1P	B	20A1P	180	113 - DEDICATED RECEPTACLE		8
9	113 - DEDICATED RECEPTACLE	180	20A1P	A	20A1P	180	113 - DEDICATED RECEPTACLE		10
11	113 - DEDICATED RECEPTACLE	180	20A1P	B	20A1P	180	113 - DEDICATED RECEPTACLE		12
13	113 - DEDICATED RECEPTACLE	180	20A1P	A	20A1P	180	113 - DEDICATED RECEPTACLE		14
15	113 - DEDICATED RECEPTACLE	180	20A1P	B	20A1P	180	113 - DEDICATED RECEPTACLE		16
17	113 - DEDICATED RECEPTACLE	180	20A1P	A	20A1P	180	113 - DEDICATED RECEPTACLE		18
19	113 - DEDICATED RECEPTACLE	180	20A1P	B	20A1P	180	113 - DEDICATED RECEPTACLE		20
21	113 - DEDICATED RECEPTACLE	180	20A1P	A	20A1P	720	113 - RECEPTACLES		22
23	113 - RECEPTACLES	720	20A1P	B	20A1P	720	113 - RECEPTACLES		24
25	113 - RECEPTACLES	720	20A1P	A					26
27				B					28
29				A					30
31				B					32
33				A					34
35	TRANSFER SWITCH	435	30A2P	B					36
37		435		A					38
39	TRANSFER SWITCH	435	30A2P	B	30A2P	2600	WATER HEATER		40
41		435		A		2600			42

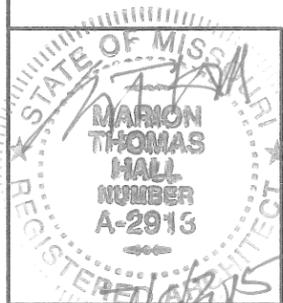
SERVICE PANEL LPB									
MAIN BUS: 225A MLO VOLTS: 240/120, 1PH, 3-WIRE BUS MATERIAL: COPPER MOUNTING: SURFACE			SQUARE "D" NOOD OR EQUAL W/ NEUTRAL BUS & GROUNDING BUS CIRCUIT BREAKERS BOLT-IN 10000 AIC				CONNECTED LOAD A PHASE 24284 VA B PHASE 24432 VA TOTAL 48716 VA 203 A		
CIR	SERVICE	VA	BKR		BKR	VA	SERVICE		CIR
1	103-DEDICATED RECEPTACLES	180	20A1P	A	20A1P	360	109-DEDICATED RECEPTACLES		2
3	105-DEDICATED RECEPTACLES	360	20A1P	B	20A1P	360	109-DEDICATED RECEPTACLES		4
5	106-DEDICATED RECEPTACLES	360	20A1P	A	20A1P	900	101,103,104 - RECEPTACLES		6
7	109 - RECEPTACLES	720	20A1P	B	20A1P	720	105 - RECEPTACLES		8
9	110 - RECEPTACLES	720	20A1P	A	20A1P	720	102 - RECEPTACLES		10
11	106 - RECEPTACLES	1080	20A1P	B	20A1P	180	106 - TV RECEPTACLE		12
13	108 - DATA DUPLEX	360	20A1P	A	20A1P	540	102 - RECEPTACLES		14
15	107 - TV RECEPTACLE	180	20A1P	B	20A1P	600	REFRIGERATOR		16
17	GARBAGE DISPOSAL	972	20A1P	A	20A1P	540	107 - GFI RECEPTACLES		18
19	MICROWAVE - SOUTH	800	20A1P	B	20A1P	800	MICROWAVE - NORTH		20
21				A					22
23				B					24
25				A					26
27				B					28
29				A					30
31				B	30A2P	1456	AIR CONDENSER		32
33				A		1456			34
35	FURNACE	6360	60A2P	B	30A2P	1456	AIR CONDENSER		36
37		6360		A		1456			38
39	FURNACE	6360	60A2P	B	30A2P	3000	RANGE		40
41		6360		A		3000			42

ELECTRIC SCHEDULE						
MANUF.	MODEL	#	LAMPS TYPE	W	MNT	REMARKS
WILLIAMS A	50G-S24-LED*UT 50/835-RPC12125-ED*UT-UNW		LED	51	CLG	24" x 48" STATIC TROFFER FIXTURE, HOUSING: 22 GAUGE DIE FORMED C.R.S. SHIELDING: FROSTED ACRYLIC, PATTERN #12.
WILLIAMS B	50G-S24-LED*UT 50/835-RPC12125-EM/BSL310-ED*UT-UNW		LED	51	CLG	24" x 48" STATIC TROFFER FIXTURE, HOUSING: 22 GAUGE DIE FORMED C.R.S. SHIELDING: FROSTED PATTERN #12 & EMERGENCY DRIVER.
WILLIAMS C	50G-S22-LED*UT30/85-RPC12125-ED*UT-UNW		LED	25	CLG	24" x 24" STATIC TROFFER FIXTURE, HOUSING: 22 GAUGE DIE FORMED C.R.S. SHIELDING: FROSTED PATTERN #12.
WILLIAMS D	50G-S22-LED*UT30/85-RPC12125-EM/BSL310-ED*UT-UNW		LED	25	CLG	24" x 24" STATIC TROFFER FIXTURE, HOUSING: 22 GAUGE DIE FORMED C.R.S. SHIELDING: FROSTED PATTERN #12 & EMERGENCY DRIVER.
BROAN E	GRAINGER #4C772				CLG	80 CFM CEILING MOUNT BATHROOM VENTILATOR.
LITHONIA L	TWR1LED 1 40K MVOLT		LED	33	WALL	EXTERIOR, SURFACE MOUNT LIGHT FIXTURE, WITH ALUMINUM HOUSING. PRISMATIC GLASS LENS.
	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.
PATHWAY EE	PLEXLEDXUR				WALL	SOLID STATE 2-RATE CHARGER. NI-CAD BATTERY (2) LED LAMPS. 3.7 WATTS. 0.040 A.
LITHONIA LL	TWS LED 1 50K 120		LED	19	WALL	DIE-CAST ALUMINUM WITH IMPACT RESISTANT POLYCARBONATE FULLY GASKETED LENS.
ELECTRICAL FIXTURES AND EQUIPMENT ARE SCHEDULED BY MANUFACTURER AND MODEL NUMBER FOR DESIGN INTENT ONLY, APPROVED EQUALS MAY BE SUBSTITUTED.						

TRANSFER SWITCH									
TRANSFER SWITCH EQUAL TO SQUARE "D" MODEL Q0112L125G LOAD CENTER BOX Q0C16US COVER, Q02DTI MECHANICAL INTERLOCK ATTACHMENT U030N POWER INLET 120/240V, 12 CIRCUIT							CONNECTED LOAD A PH. 329VA B PH. 540VA TOTAL 869VA		
CIR	SERVICE	VA	BKR		BKR	VA	SERVICE		CIR
1	107 - LIGHTS	255	20A1P	A	20A1P	74	111 & 112 - LIGHTS/FANS		2
3	111 & 112 GFI RECEPTACLES	360	20A1P	B	20A1P	180	107 RECEPTACLE		4
5	-	-	-	A	-	-			6
7	-	-	-	B	-	-			8
9	-	-	-	A	-	-			10
11	-	-	-	B	-	-			12

### ELECTRICAL NOTES

- DRAWINGS AND DIAGRAMS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
- 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. USE ONLY COPPER INSIDE BUILDING.
- 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.
- CONTRACTOR TO INSTALL CONDUCTORS IN CONDUIT WITH DISCONNECT(S) AT EXISTING METER ON EXISTING MAINTENANCE BUILDING FOR A FUNCTIONAL ELECTRICAL SERVICE TO NEW BUILDING. SEE SITE PLAN.



# ELECTRICAL PANELS

MISSOURI DEPARTMENT  
OF TRANSPORTATION  
DIVISION OF GENERAL SERVICES  
FACILITIES MANAGEMENT

Osage Beach Project Office  
749 State Highway 42, Osage Beach, MO 65065  
Central District - Miller County

DESIGN BY: LARRY CARVER  
DRAWN BY: LARRY CARVER  
DATE: 6-26-15  
Sheet  
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