

INDEX OF DRAWINGS

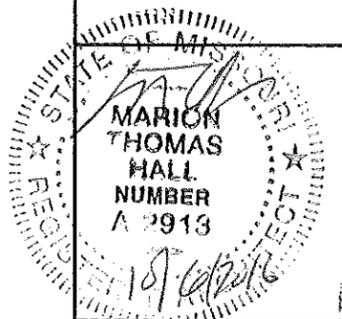
- 1 - 17 COVER SHEET
- 2 - 17 SITE PLAN
- 3 - 17 FLOOR PLAN
- 4 - 17 MEZZANINE PLAN
- 5 - 17 SCHEDULES
- 6 - 17 NORTH & SOUTH ELEVATIONS
- 7 - 17 EAST & WEST ELEVATIONS
- 8 - 17 HEAD & JAMB DETAILS
- 9 - 17 HEAD & JAMB DETAILS
- 10 - 17 BUILDING SECTION
- 11 - 17 WALL SECTIONS
- 12 - 17 PLUMBING PLAN
- 13 - 17 MECHANICAL PLAN
- 14 - 17 PLUMBING & MECHANICAL NOTES
- 15 - 17 LIGHTING PLAN
- 16 - 17 POWER PLAN
- 17 - 17 ELECTRICAL PANEL

MISSOURI DEPARTMENT  
OF TRANSPORTATION

Milan Mechanics Building  
Northwest District  
1800 North Pearl, Milan, MO 63556  
Sullivan County

CODE REQUIREMENTS

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



COVER SHEET

MISSOURI DEPARTMENT  
OF TRANSPORTATION  
DIVISION OF GENERAL SERVICES  
FACILITIES MANAGEMENT

Milan Mechanics Building  
Northwest District - Sullivan County  
1800 North Pearl, Milan, MO 63556

DRAWN BY: LARRY CARVER  
DATE: 10-1-16  
Sheet  
1 of 17

HIGHWAY 5

LEGEND (EXISTING)

- WATER ----- W -----
- BURIED ELECTRICAL ----- E -----
- SANITARY ----- SAN -----
- SANITARY MANHOLE - SWH
- POWER POLE - PP
- 1000 GAL LP TANK - LPT
- 1-1/4" WATER METER PIT - WMP

LEGEND (NEW)

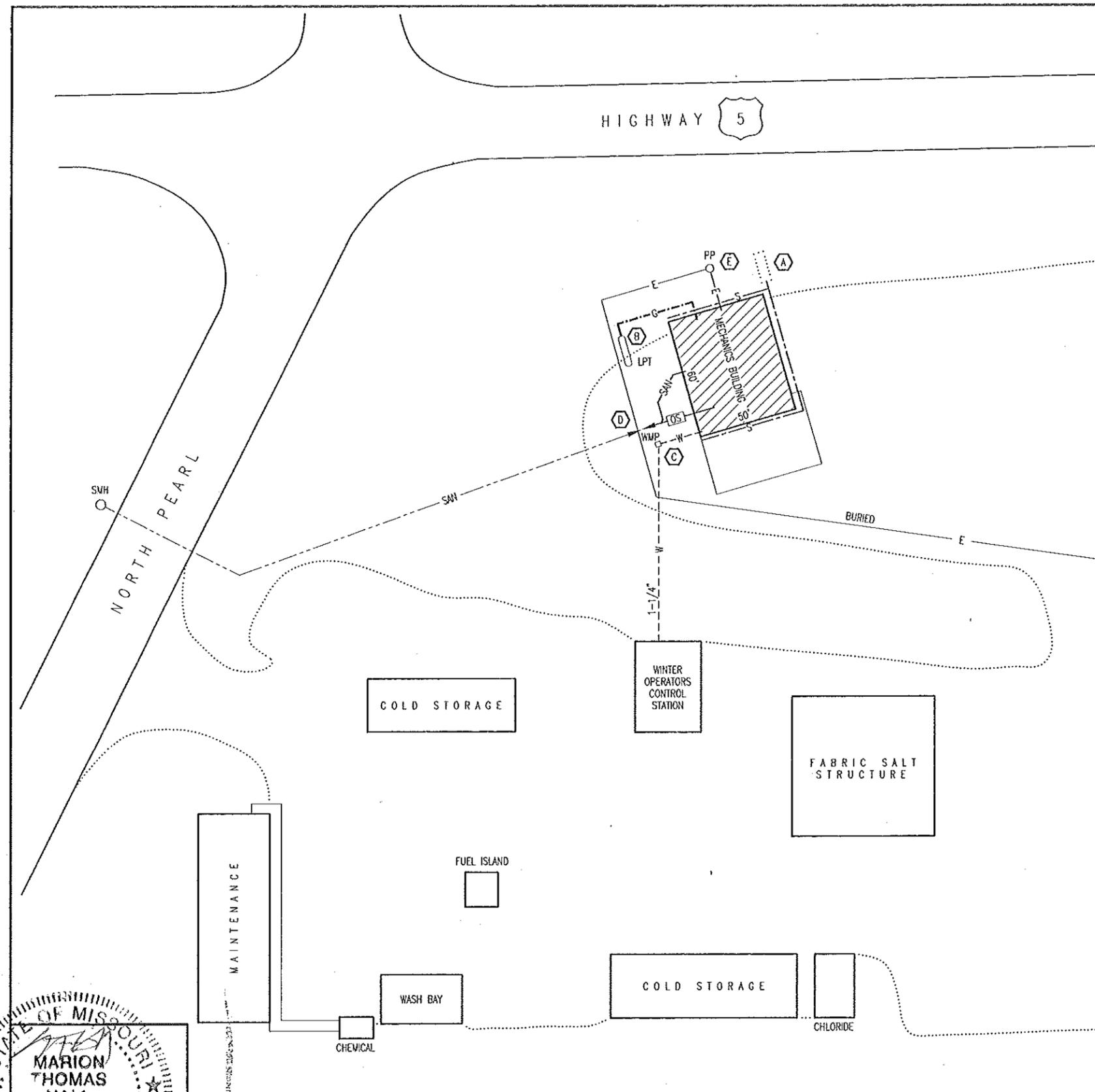
- PROPANE GAS ----- G -----
- 1-1/4" WATER ----- W -----
- ELECTRIC 1 PHASE ----- E -----
- STORM SEWER ----- S -----
- SANITARY SEWER ----- SAN -----
- 1,200 GAL. OIL SEPARATOR - OS

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.
  - PROVIDE 6" OF COMPACTED 1" MANUS ROCK UP TO 15'-0" OUTSIDE NEW BUILDING INCLUDING APPROACH PAD. CONTOUR TO DRAIN AWAY FROM NEW CONSTRUCTION.
- VERIFY UTILITY LOCATIONS BEFORE CONSTRUCTION.
- MODOT TO HAVE THE FOUR CORNERS STAKED AND BUILDING FOOTPRINT & EXTERIOR APPROACH SLAB LEVELLED.
- EXCAVATED SOIL AND ROCK NOT USED CAN BE PLACED ON SITE. AREA TO BE DESIGNATED BY OWNER.
- CONTRACTOR TO INSTALL TRACER WIRE ON ALL WATER AND SEWER SYSTEMS AND AN ACCESS POINT WITHIN A PROTECTIVE ENCLOSURE IN THE PUBLIC RIGHT OF WAY FOR ANY NEWLY INSTALLED OR FULLY REPLACED FACILITIES.
- CONTRACTOR TO PROVIDE AND INSTALL ADEQUATE AMOUNT OF TOPSOIL, STARTER FERTILIZER, TRIPLE "T" SEED AND STRAW FOR ANY LAWN AREAS TO REMAIN AS SAME BUT DISTURBED DURING CONSTRUCTION.

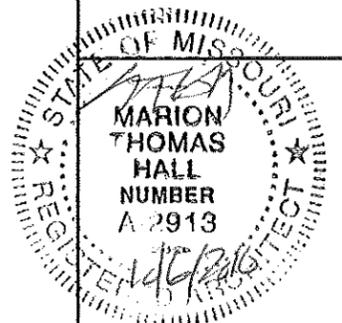
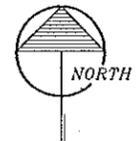
SITE NOTES

- A RUN STORM SEWER TO DAYLIGHT. CONTRACTOR TO PROVIDE 15'-0" LONG x 5'-0" x 12" DEEP RIP-RAP (3" DIAMETER ROCK) OVER 4.1 OUNCE, 30 MIL. WEED BARRIER. SEE PLUMBING PLAN FOR THE STORM SCHEDULE 35 PVC SIZE(S). CHANGE TO SCHEDULE 40 PVC 3'-0" FROM DAY-LIGHTING INTO RIP-RAP.
- B CONTRACTOR TO MAKE CONNECTION AS REQUIRED FOR AN OPERABLE GAS SERVICE FROM MODOT PROVIDED 1,000 GALLON PROPANE TANK. CONTRACTOR TO PROVIDE CORRECTLY SIZED 4" THICK CONCRETE PAD.
- C CONTRACTOR TO MAKE CONNECTION AS REQUIRED AT EXISTING 1-1/4" WATER METER PIT, Y AND SHUT-OFF. CONNECT WITH 1-1/4" SCHEDULE 80 WATER SUPPLY AND CHANGE TO COPPER INTO NEW BUILDING FOR A FUNCTIONAL SYSTEM. SEE PLUMBING PLAN.
- D CONTRACTOR TO PROVIDE AND INSTALL A 1,200 GALLON OIL SEPARATOR AS REQUIRED FOR A FUNCTIONAL SYSTEM 5'-0" FROM WESTERN WALL OF NEW BUILDING. MAKE CONNECTION AS REQUIRED TO AN EXISTING CAPPED SEWER LINE. SEE PLUMBING PLAN.
- E CONTRACTOR TO PROVIDE CONDUCTORS IN CONDUIT AS REQUIRED FROM A EXISTING DISCONNECT ON AN EXISTING POWER POLE APPROXIMATELY 20'-0"± FROM NORTH THROUGH FLOOR WITH 4" FIBER OPTIC SWEEP TO (LPA) 225A PANEL BOARD INSIDE NEW BUILDING FOR A FUNCTIONAL SYSTEM. CONTRACTOR TO ALSO INSTALL PARALLEL (1) 2" SCHEDULE 40 PVC WITH FIBER SWEEP UP THROUGH 101 MECHANICS FLOOR AND CAP 12" A.F.F. AND EXTEND TO THE NORTH 5'-0", 24" BELOW GRADE & CAP.



ASPHALT TANK

A SITE PLAN  
2 SCALE: 1" = 60'-0"

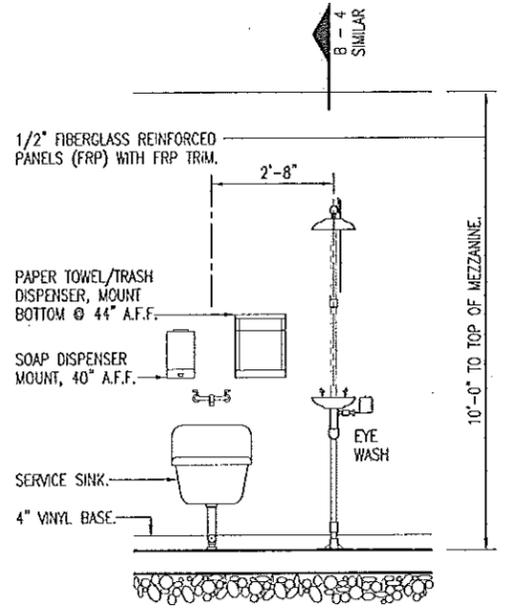
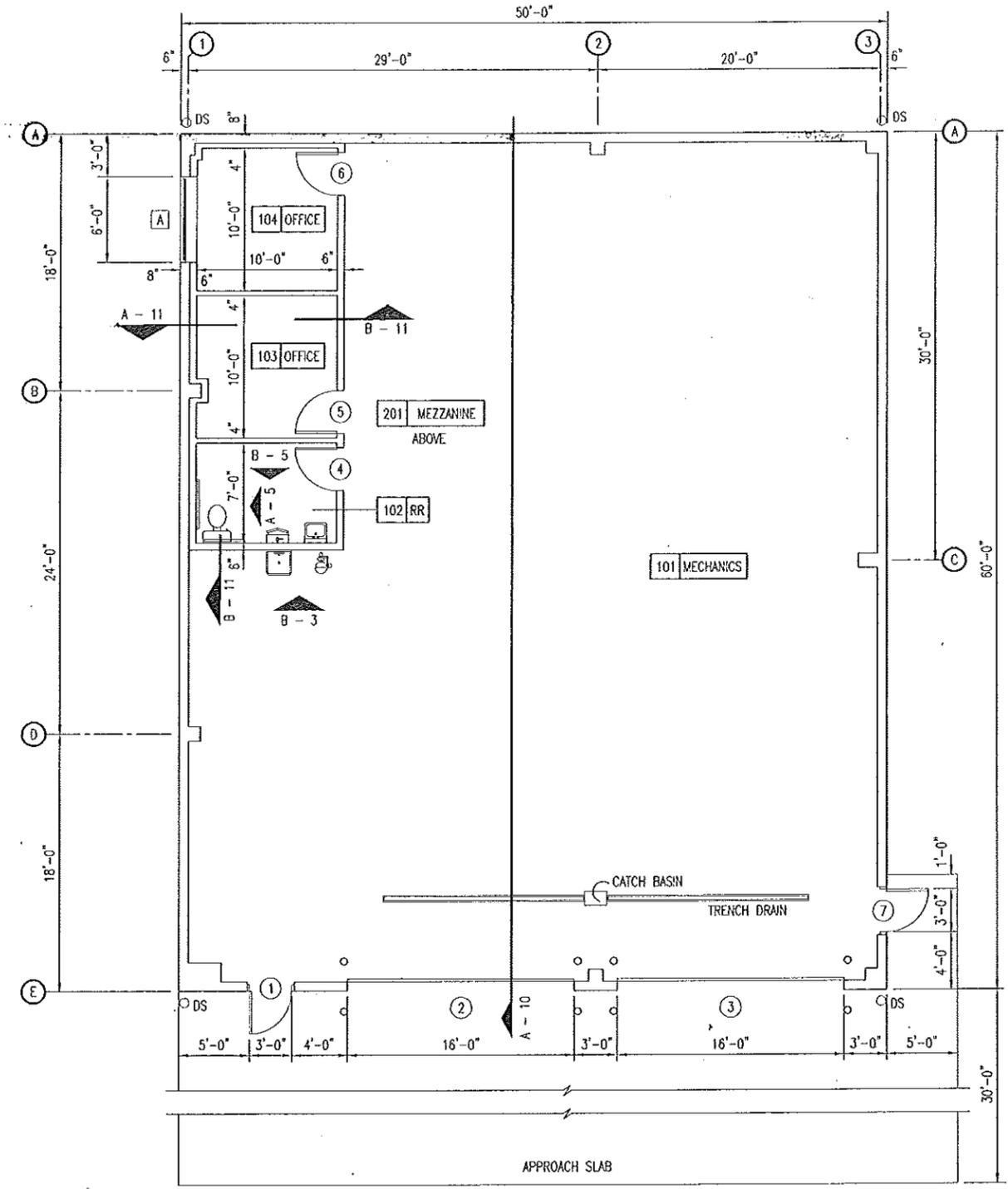


SITE PLAN

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FACILITIES MANAGEMENT

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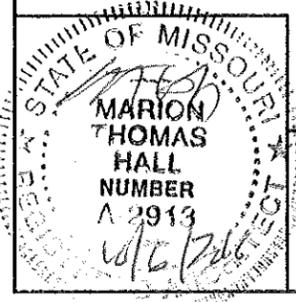
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Sheet 2 of 17



**B** FIXTURE ELEVATION  
 3 SCALE: 1/4" = 1'-0"

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

NORTH

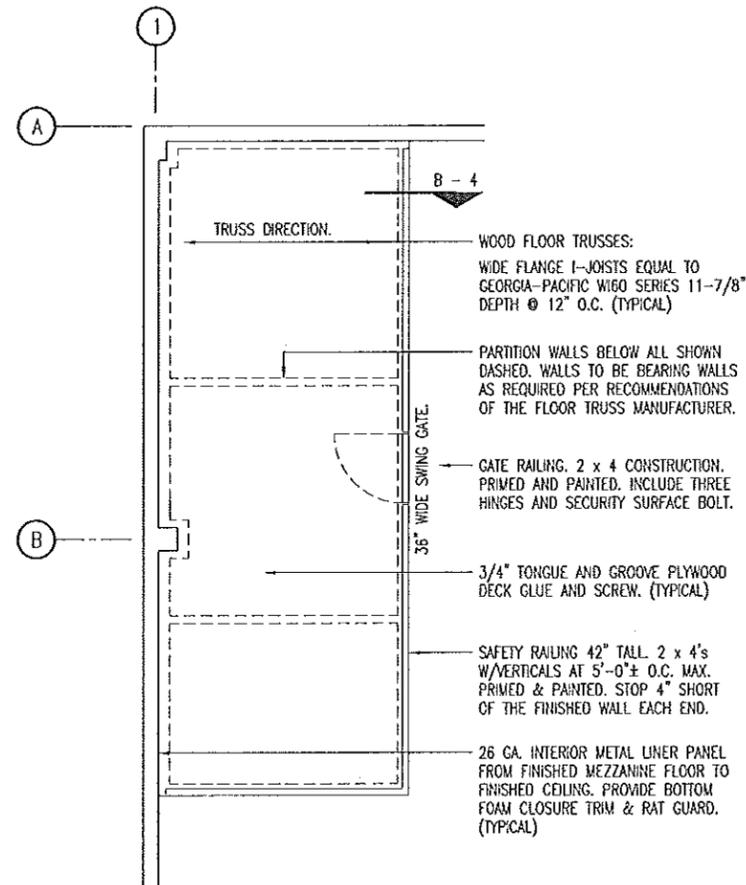


FLOOR PLAN

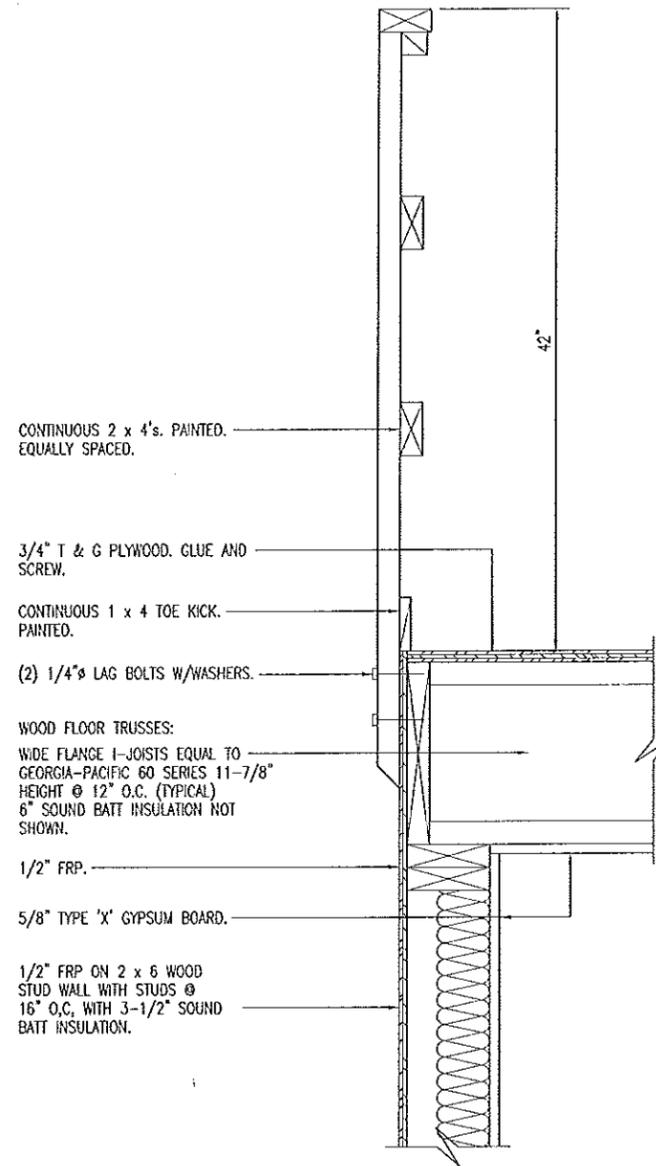
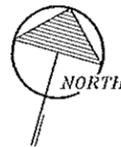
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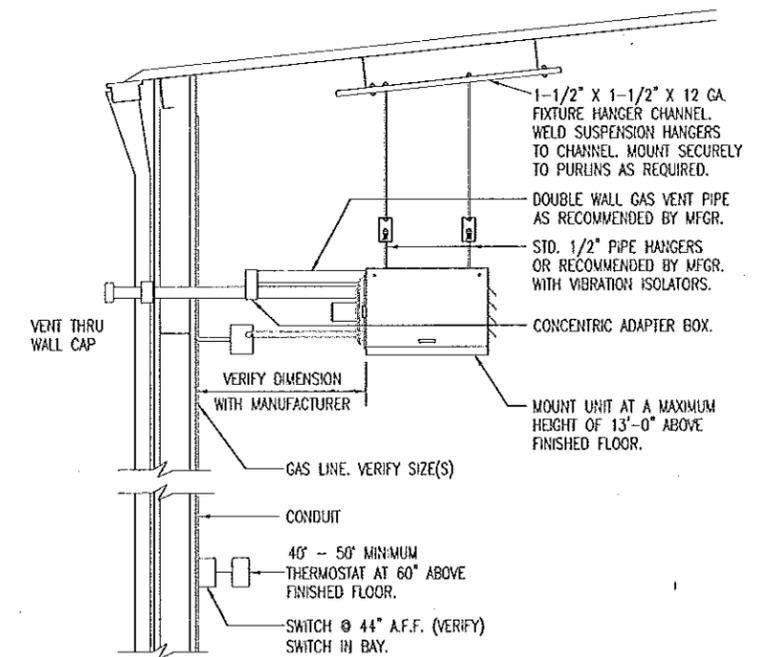
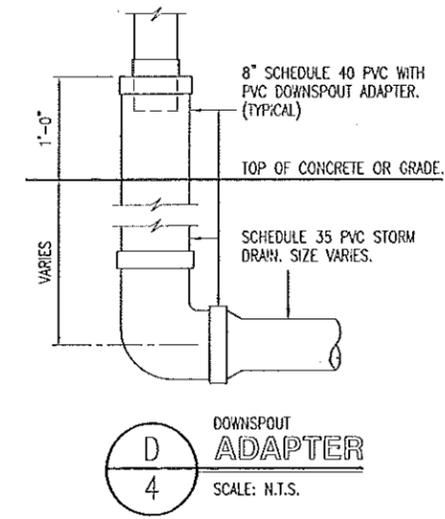
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 Sheet 3 of 17



**A** MEZZANINE PLAN  
4 SCALE: 1/8" = 1'-0"



**B** DETAIL  
4 SCALE: 1" = 1'-0"



MEZZANINE PLAN

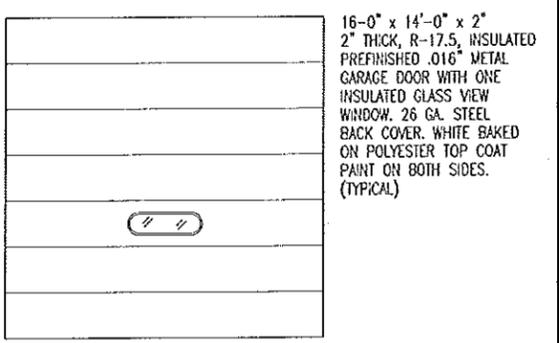
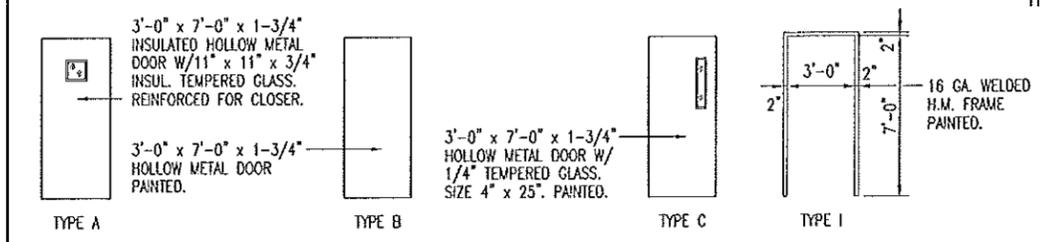
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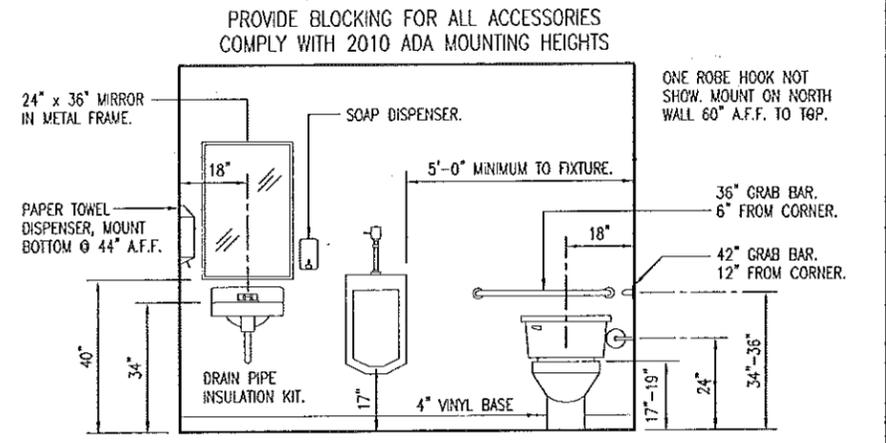
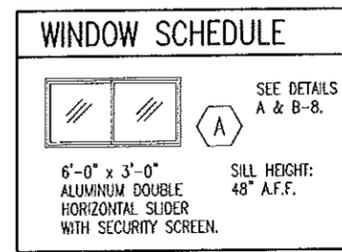
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Sheet 4 of 17

DOOR SCHEDULE							
NO.	SIZE	SWING	DR. TYPE	FRM. TYPE	DETAIL	DEPTH	HWDR. GRP.
* 1	3'-0" x 7'-0" x 1-3/4"	LHR	A	I	C-9	8"	-
* 2	16'-0" x 14'-0" x 2"	-	D	-	A & B-9	-	-
* 3	16'-0" x 14'-0" x 2"	-	D	-	A & B-9	-	-
4	3'-0" x 7'-0" x 1-3/4"	RH	B	I	C-8	8-1/8"	1
5	3'-0" x 7'-0" x 1-3/4"	LHR	C	I	C-8	8-1/8"	2
6	3'-0" x 7'-0" x 1-3/4"	RHR	C	I	C-8	8-1/8"	2
* 7	3'-0" x 7'-0" x 1-3/4"	RHR	A	I	C-9	8"	-

\* SUPPLIED BY MODOT AND INSTALLED BY GENERAL CONTRACTOR.



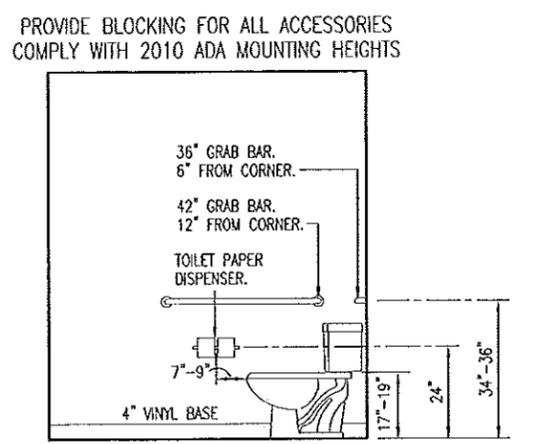
WINDOW SUPPLIED BY MODOT AND INSTALLED BY GENERAL CONTRACTOR.



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

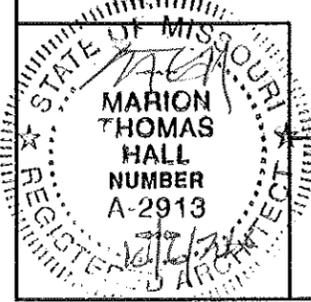
FINISH SCHEDULE														
NO.	ROOM	FLOOR	WALLS				BASE		CEILING					
			3/4" T & G PLYWOOD.	CURE AND SEALER ON CONCRETE.	26 GA. INTERIOR PANELS	1/2" FRP ON EXTERIOR OF OFFICE RR OR STORAGE.	5/8" GYPSUM BOARD.	5/8" GREEN GYP. BD.	PAINT.	4" VINYL.	4" VINYL ON EXTERIOR OF OFFICE RR OR MECHANICAL.	NONE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

HVAC SCHEDULE						
SYM.	UNIT	MANUFACTURER	BTU OUTPUT	FUEL	VOLTAGE	REMARKS
A	36" X 36" SHUTTER MOUNT EXHAUST FAN W/WEATHERHOOD	DAYTON 1HLB6 & 1WBW2 OR EQUAL 6.4 AMPS	6,480 CFM	ELECTRIC	120	COMMERCIAL TYPE BELT DRIVE WALL EXHAUST FAN INCLUDING OSHA GUARD AND SHUTTER.
B	MOTORIZED DAMPER WITH WEATHERHOOD	DAYTON MODEL 3C728 & 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 175 OR EQUAL	145,250	PROPANE	115	SINGLE BURNER COMBUSTION, 3.8 AMPS, DIRECT SPARK IGNITION, 100% LOCK-OUT & CL-1 STANDARD HEATING ONLY THERMOSTAT.
D	CARBON MONOXIDE EXHAUST SYSTEM	CAR-MON MODELS SERIES BA AND CW-9 OR EQUAL	---	ELECTRIC	115	INCLUDE HOSE, BALANCER, DUCTING, EXTERIOR WALL HOOD AND FLANGE MOUNTED EXHAUST FAN, 3/4 HP MOTOR, 13.8 AMPS.
E	PTAC UNIT	FRIEDRICH MODEL PDH07K OR EQUAL	COOL 6.3K HEAT 7.7K	ELECTRIC	208/230	EER 12. INCLUDE PDXWSA WALL SLEEVE AND PXGA EXTERIOR GRILL.
F	ELECTRIC UNIT HEATER	QMARK MODEL CRA1512-T2 OR EQUAL	1,280	ELECTRIC	120	INCLUDES HEATER ASSEMBLY, BACK BOX, GRILLE, WITH FACTORY INSTALLED DP THERMOSTAT. 3.1 AMPS.



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

GENERAL NOTES:  
BUILDING MANUFACTURER 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.

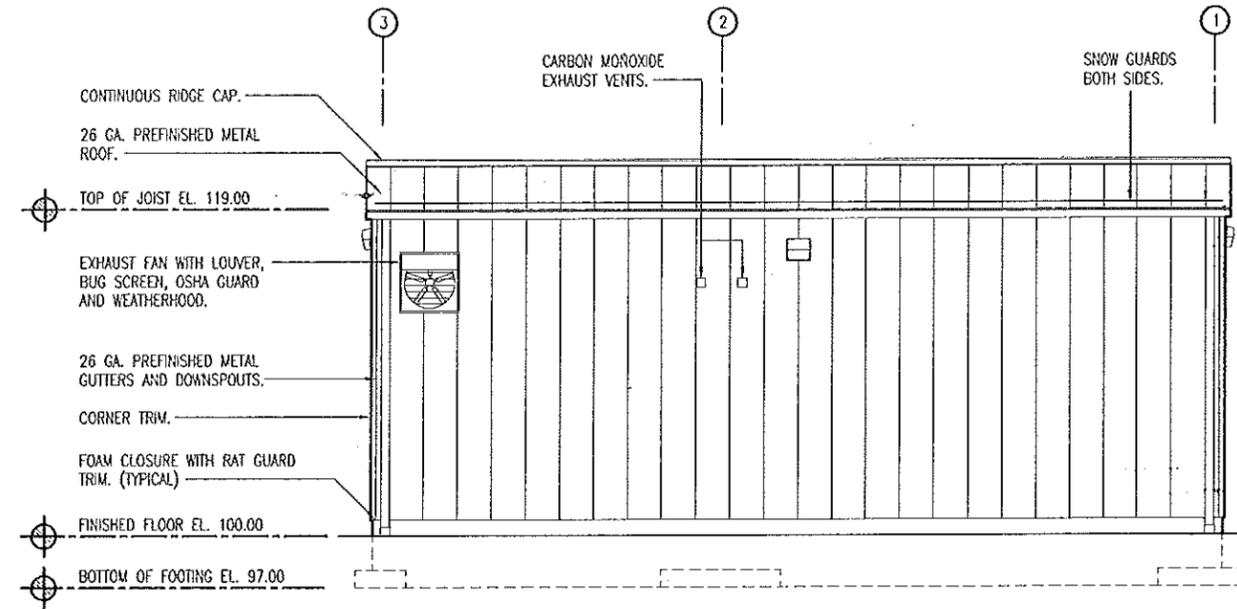


SCHEDULES

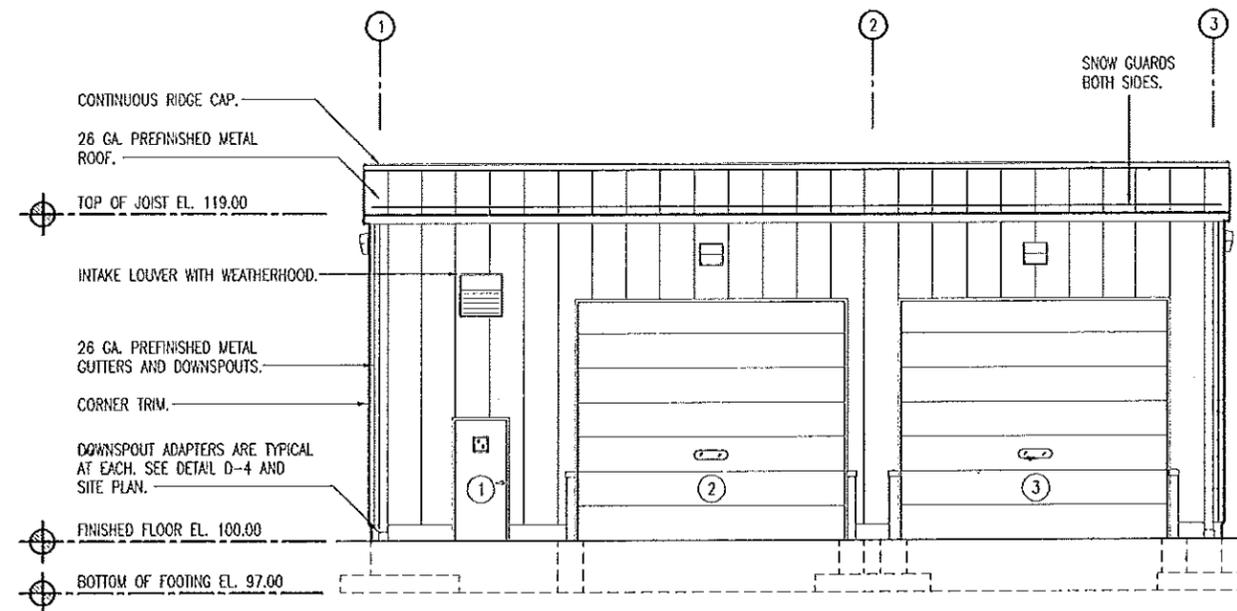
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1800 North Pearl, Milan, MO 63556

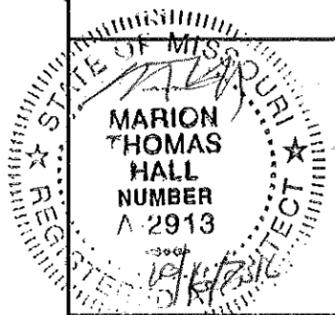
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Sheet 5 of 17



**B NORTH ELEVATION**  
 SCALE: 3/32" = 1'-0"



**A SOUTH ELEVATION**  
 SCALE: 3/32" = 1'-0"

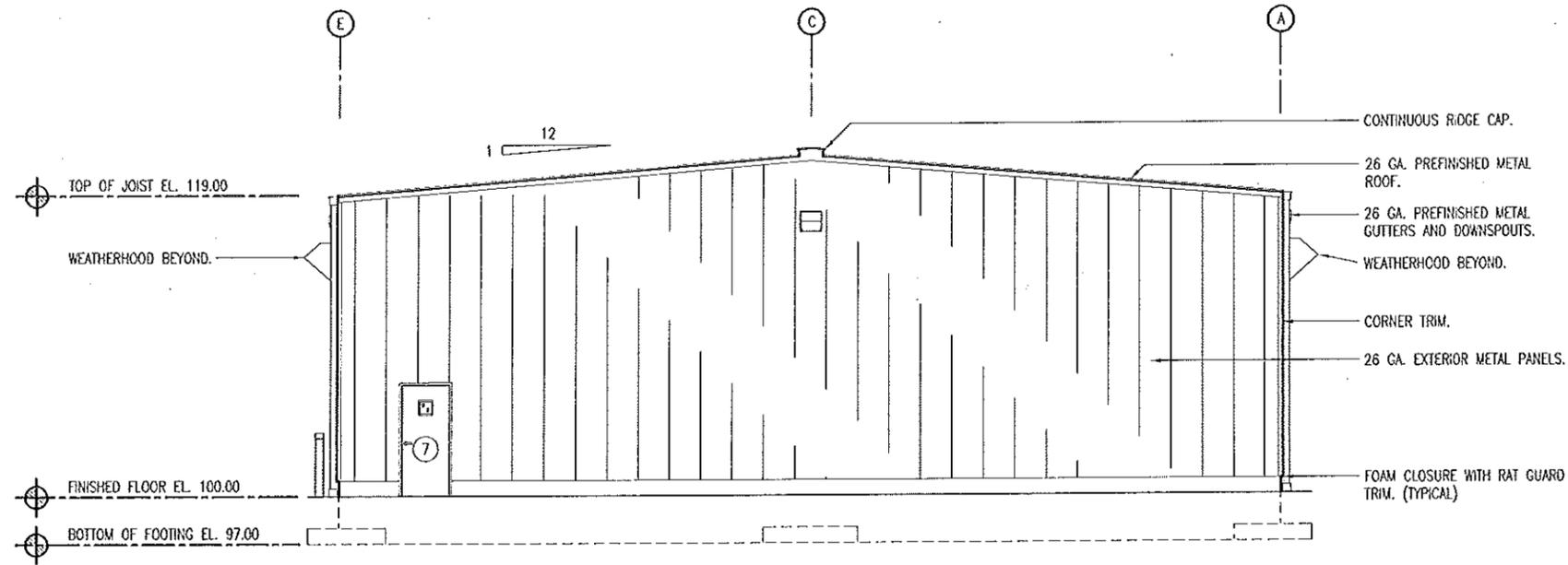


**NORTH & SOUTH ELEVATIONS**

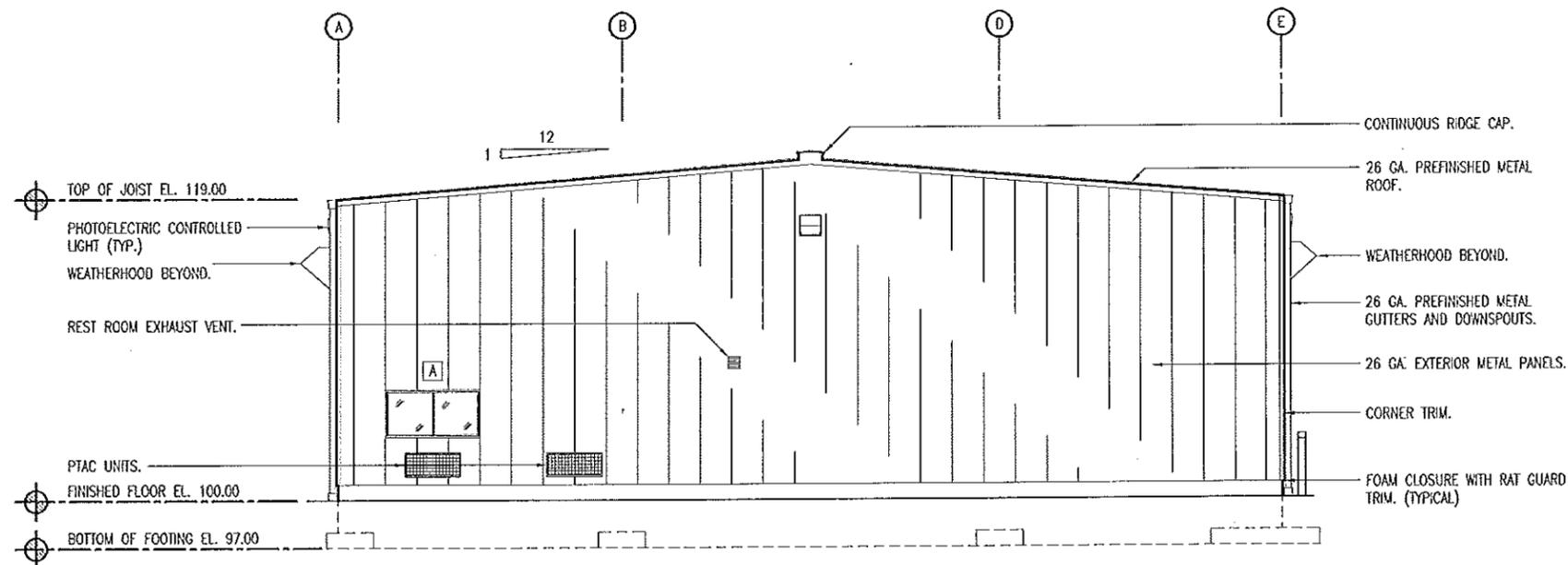
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 FACILITIES MANAGEMENT

Milan Mechanics Building  
 Northwest District - Sullivan County  
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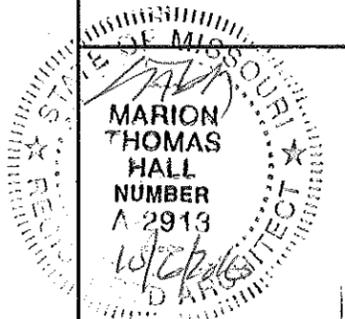
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 DATE: 10-1-16  
 Sheet  
 6 of 17



**B**  
7  
**EAST ELEVATION**  
SCALE: 3/32" = 1'-0"



**A**  
7  
**WEST ELEVATION**  
SCALE: 3/32" = 1'-0"



**EAST & WEST ELEVATIONS**

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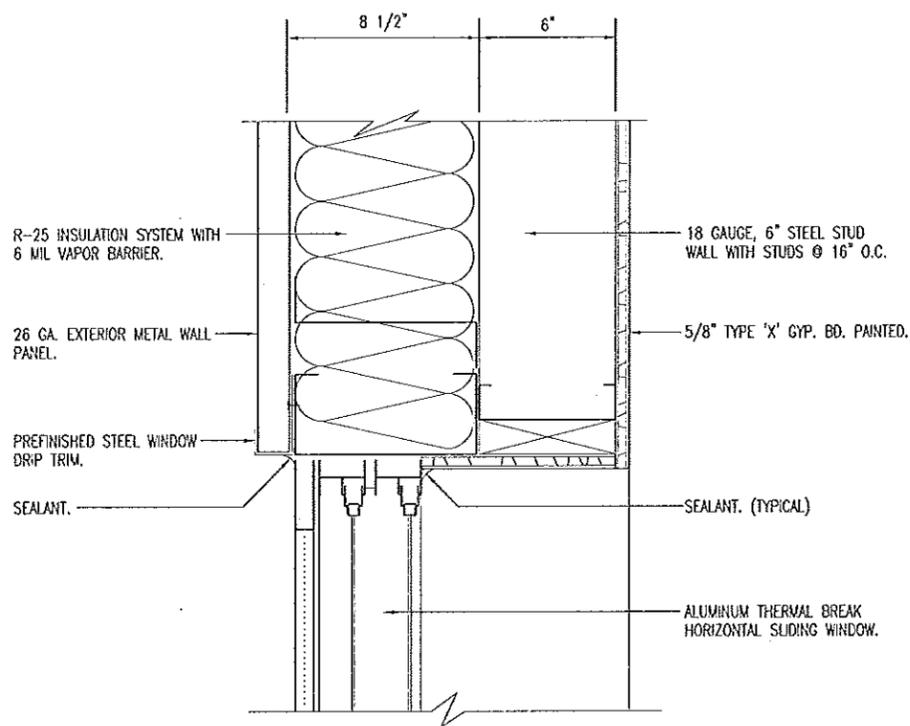
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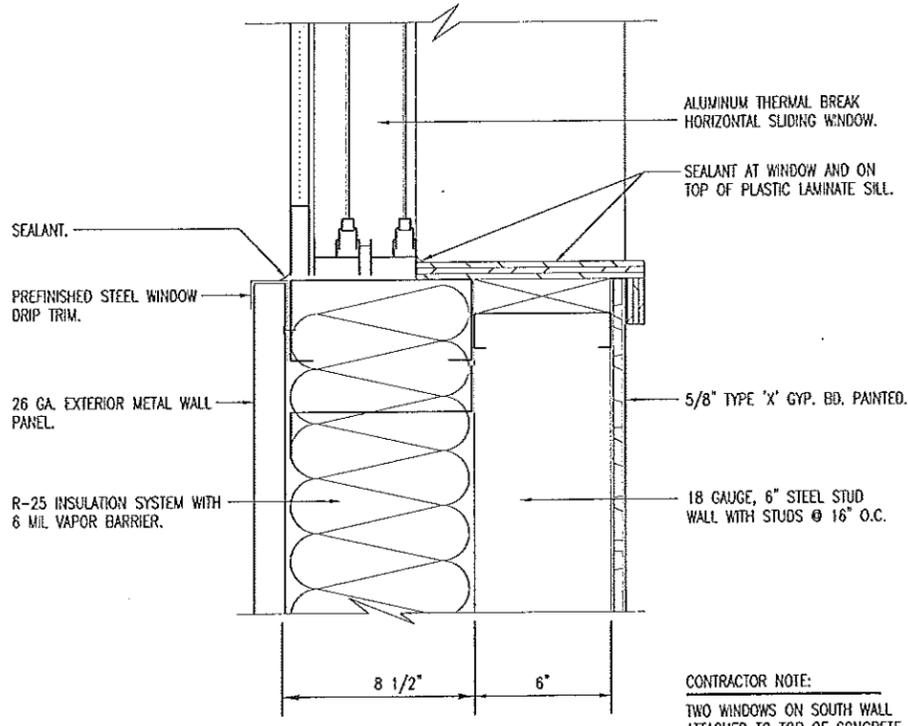
DATE: 10-1-16

Sheet

7 of 17

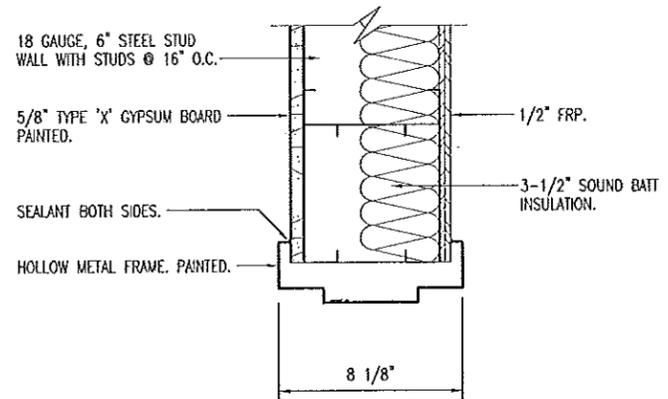


**A**  
8  
JAMB SIMILAR WINDOW HEAD  
SCALE: 1-1/2" = 1'-0"

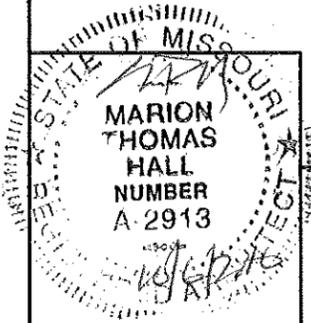


**B**  
8  
WINDOW SILL  
SCALE: 1-1/2" = 1'-0"

CONTRACTOR NOTE:  
TWO WINDOWS ON SOUTH WALL ATTACHED TO TOP OF CONCRETE STEM WALL. LAMINATE SILL INSIDE TYPICAL. FLASHING AS REQUIRED.



**C**  
8  
DOOR HEAD/JAMB  
SCALE: 1-1/2" = 1'-0"

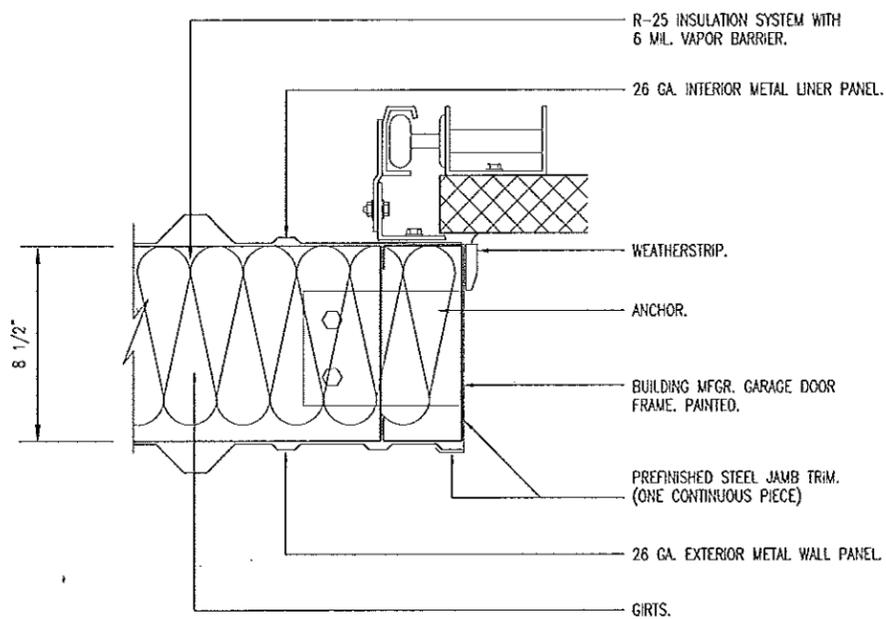


HEAD & JAMB DETAILS

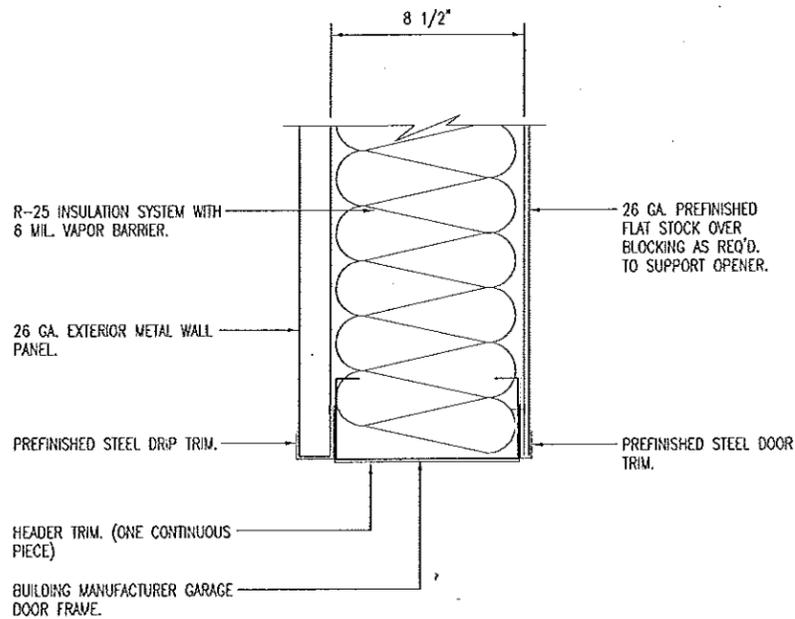
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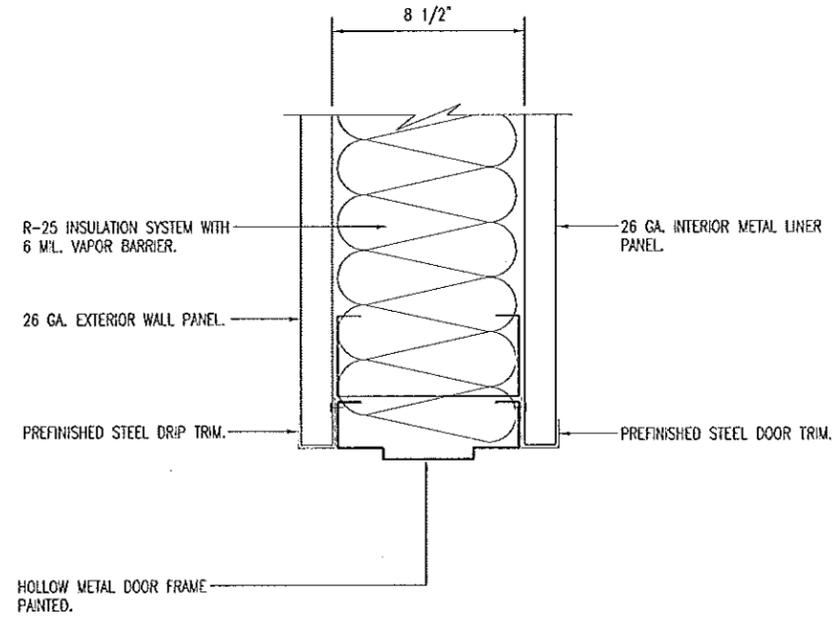
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Sheet 8 of 17



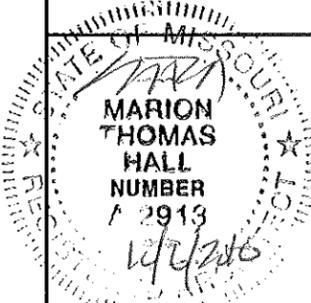
**A** GARAGE DOOR JAMB  
 9 SCALE: 1-1/2" = 1'-0"



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



**C** JAMB SIMILAR  
 DOOR HEAD  
 9 SCALE: 1-1/2" = 1'-0"

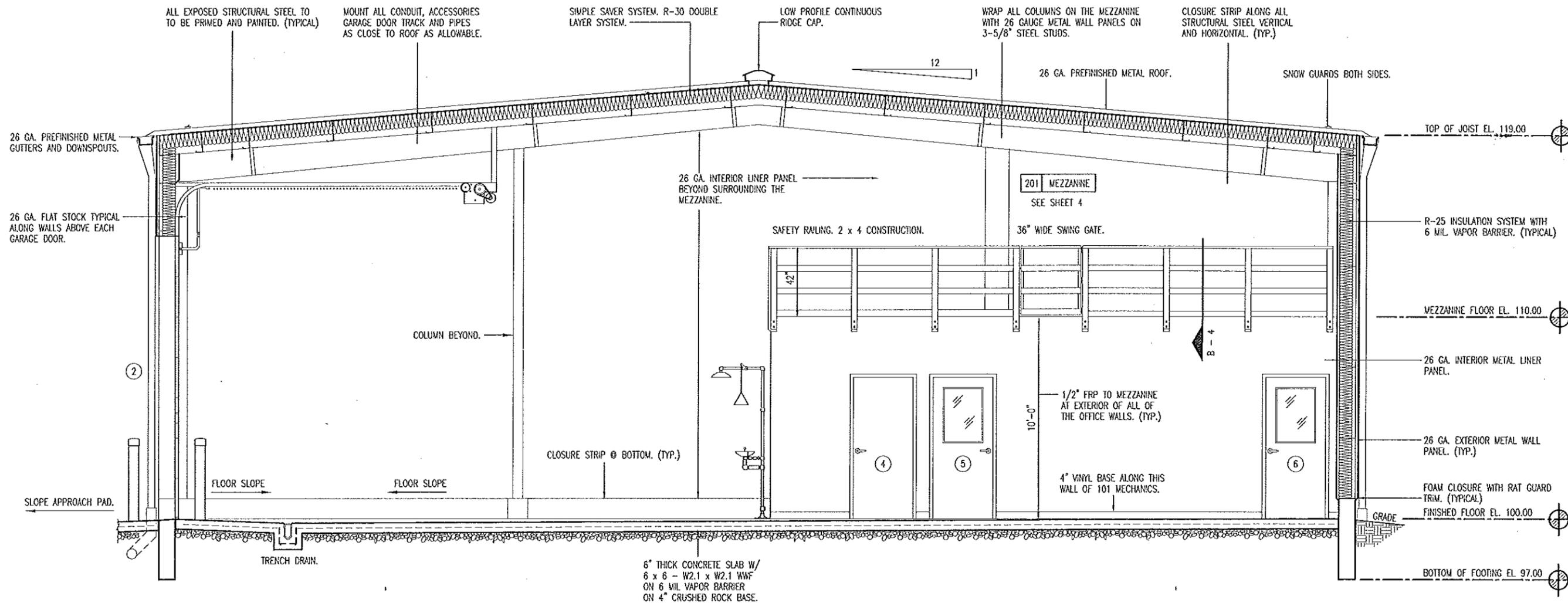


HEAD & JAMB DETAILS

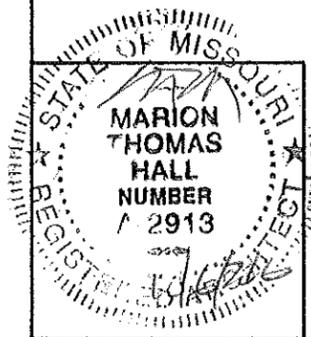
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 Sheet 9 of 17



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

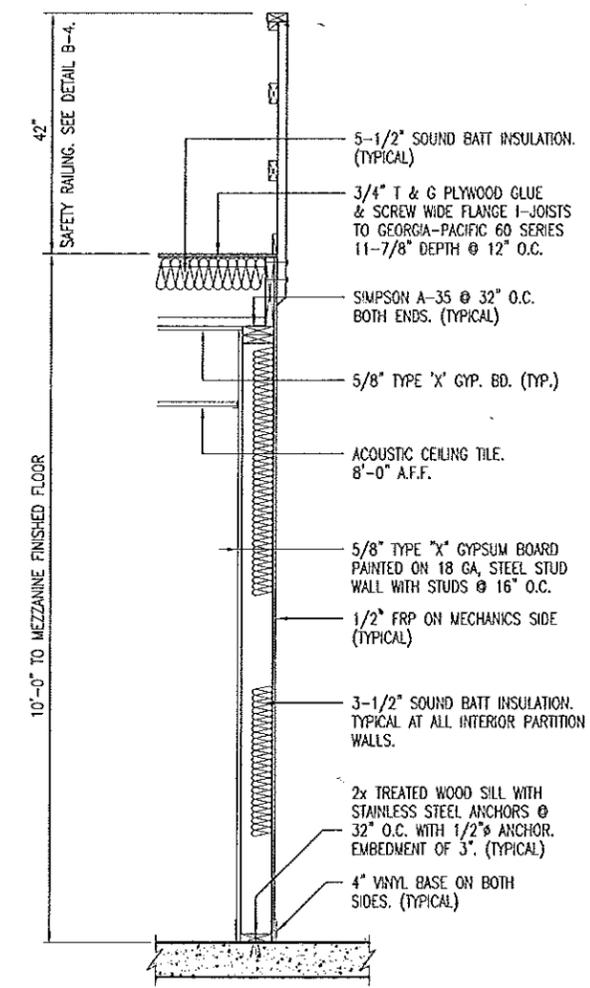
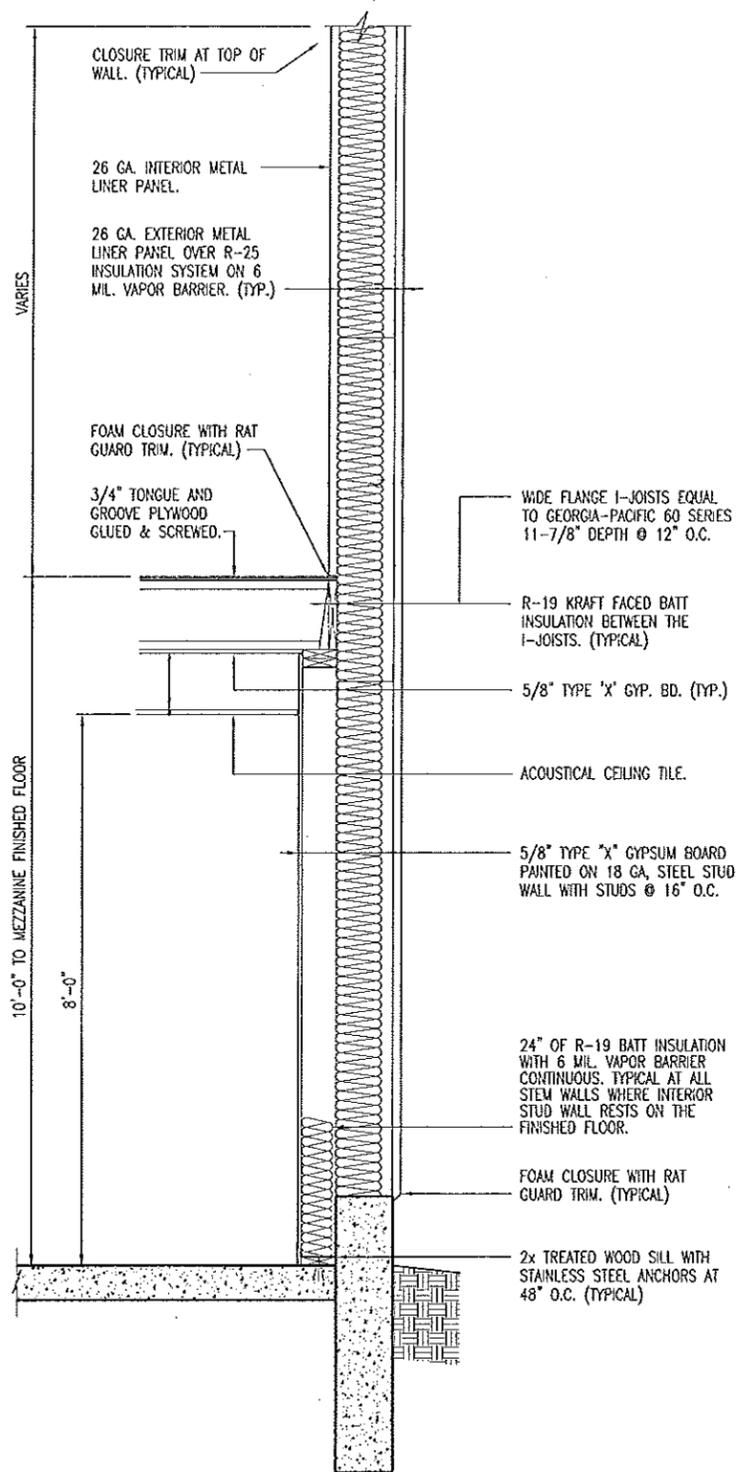


**BUILDING SECTION**

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DATE: 10-1-16  
Sheet 10 of 17



**A**  
11  
EXTERIOR WALL SECTION  
SCALE: 3/8" = 1'-0"

**B**  
11  
WALL SECTION  
SCALE: 3/8" = 1'-0"

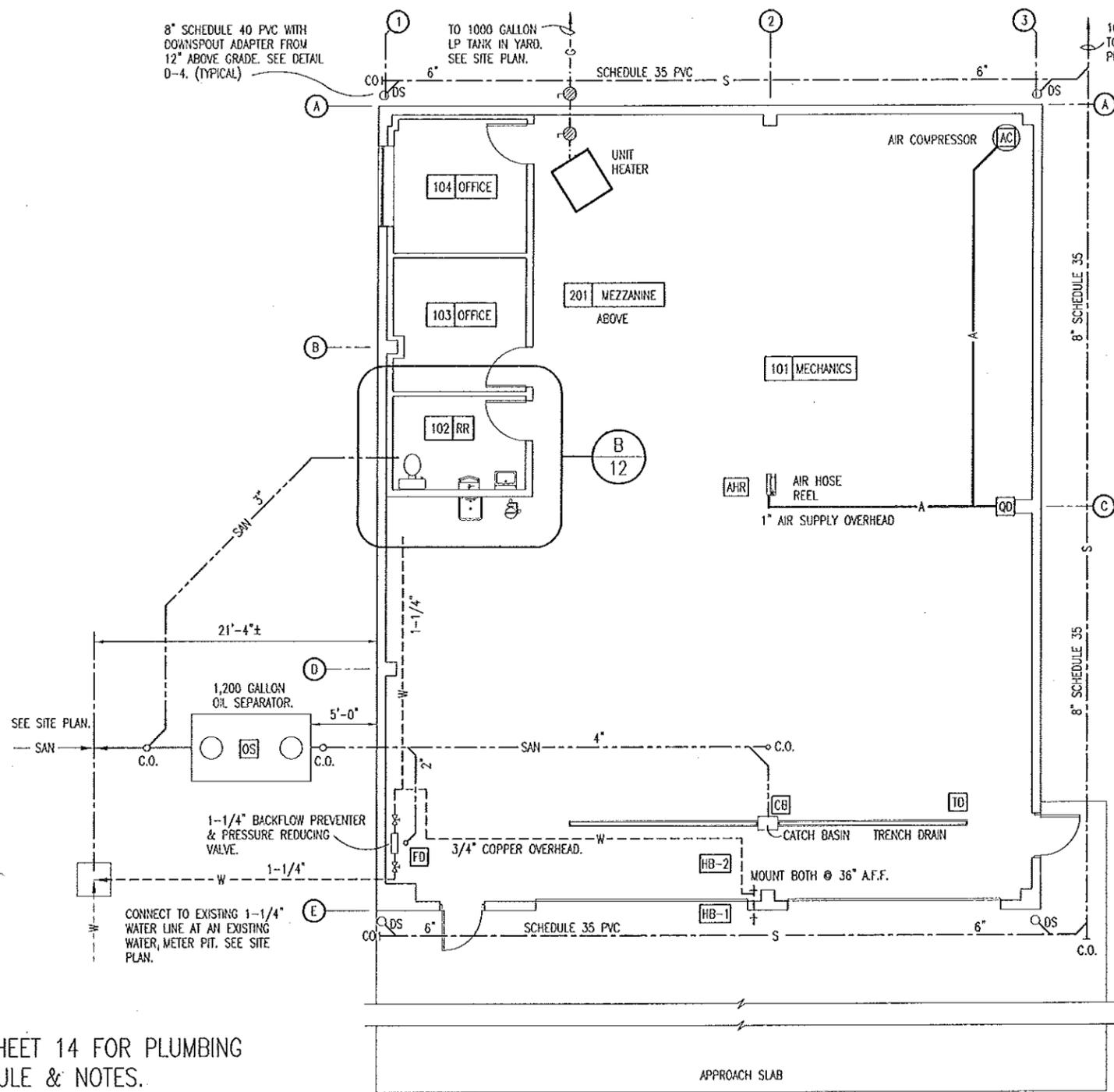
WALL SECTIONS



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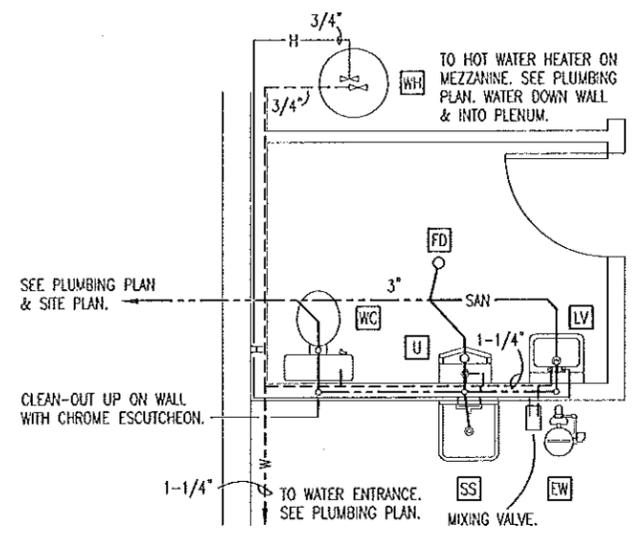
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DATE: 10-1-15  
Sheet 11 of 17

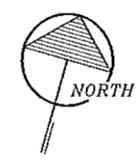


**LEGEND**

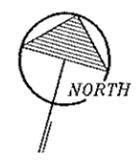
HOT WATER	— H —
WATER	- - - W - - -
SANITARY SEWER	- - - SAN - - -
STORM	- - - S - - -
COMPRESSED AIR	— A —
GAS	- - - G - - -
CLEANOUT	C.O. —
GAS VALVE	⊗



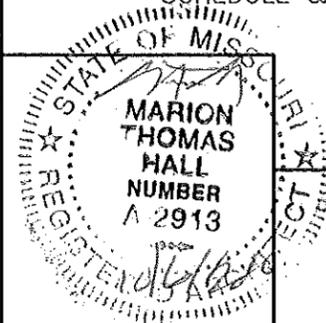
**B**  
12  
REST ROOM  
**PLUMBING PLAN**  
SCALE: 3/16" = 1'-0"



**A**  
12  
**PLUMBING PLAN**  
SCALE: 3/32" = 1'-0"



SEE SHEET 14 FOR PLUMBING SCHEDULE & NOTES.

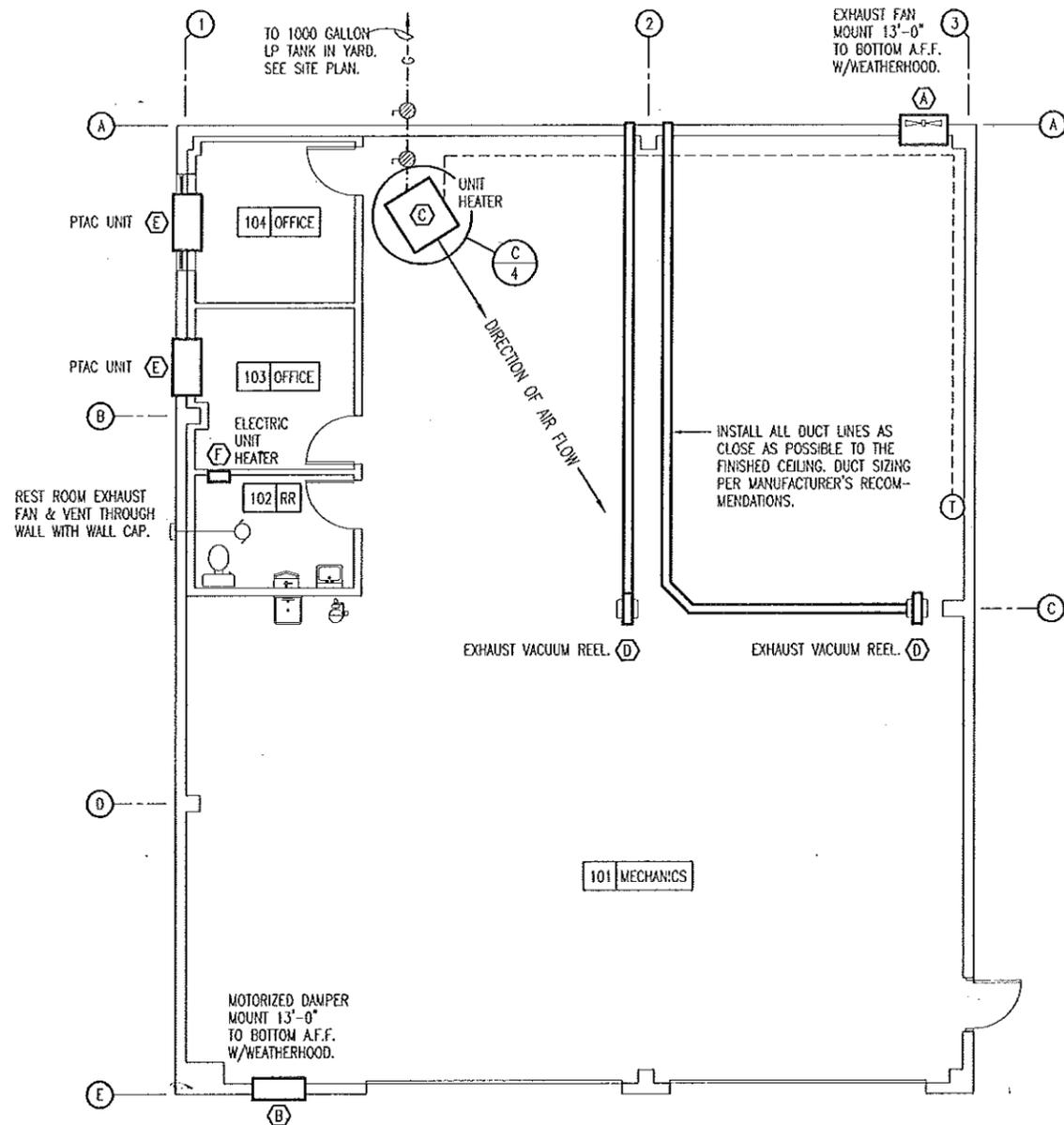


**PLUMBING PLAN**

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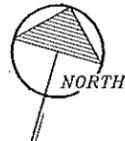
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DATE: 10-1-16  
Sheet  
12 of 17



SEE SHEET 5 FOR HVAC FIXTURE SCHEDULE.

**A**  
13  
**MECHANICAL PLAN**  
SCALE: 3/32" = 1'-0"



REPUBLIC OF MISSOURI  
MARION THOMAS HALL  
NUMBER 1, 2913  
10/6/16

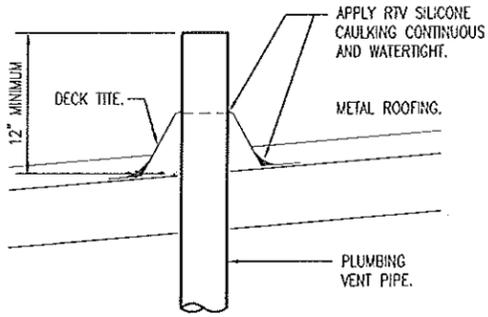
**MECHANICAL PLAN**

**MISSOURI DEPARTMENT OF TRANSPORTATION**  
DIVISION OF GENERAL SERVICES  
FACILITIES MANAGEMENT

Milan Mechanics Building  
Northwest District - Sullivan County  
1800 North Pearl, Milan, MO 63556

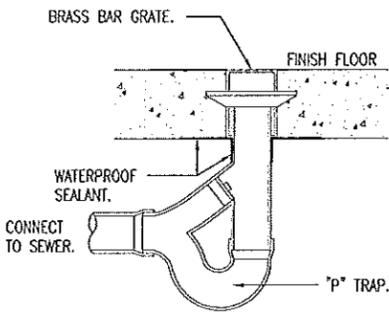
DRAWN BY: LARRY CARVER  
DATE: 10-1-16  
Sheet 13 of 17

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	URNAL	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 KOHLER, K-6718, 22.25" x 18.25" ENAMELED, CAST IRON "BANNON" SERVICE SINK WITH CLEARWATER, K-7853 LEVER HANDLE FAUCET, AND K-6673-NA, 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 67P-12 FREEZELESS WALL HYDRANT WITH 3/4" H.P.T. OUTLET, INTEGRAL VACUUM BREAKER-BACK FLOW PREVENTER.
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 DEVICE. 1-1/2" PRE-INSTALLED FIP CLEAN-OUT THREADS.
CO	CLEAN OUT					INTERIOR APPLICATIONS: BRASS WITH ADAPTER AND CAP EQUAL TO PIPE SIZE SHOWN. EXTERIOR APPLICATIONS USE PVC.
AC	AIR COMPRESSOR					EQUAL TO INGERSOLL-RAND MODEL #2340, 28A, 5 HP, 60 GALLON VERTICAL, 2-STAGE. PROVIDE RUBBERIZED WASHERS AT EACH FLOOR MOUNT TO ACT AS A SHOCK ABSORBER. SIZE MOUNT AS REQUIRED. PROVIDE LINE FILTERS AS REQUIRED. 30A BREAKER.
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.
TD	TRENCH DRAIN			4"		EQUAL TO ACO K100 CHANNEL SLOPE TRENCH DRAIN SYSTEM WITH TYPE 461Q DUCTILE QUICKLOC CAST IRON GRATE.
CB	CATCH BASIN			4"		EQUAL TO ACO K900 CATCH BASIN, WITH PLASTIC TRASH BUCKET WITH TYPE 461Q DUCTILE QUICKLOC CAST IRON GRATE FOR LID.
OS	OIL SEPARATOR			4"		EQUAL TO CHAMPION PRECAST INC. 1,200 GALLON OIL & GREASE INTERCEPTOR STOCK STANDARD NO. 140-00219D. HEAVY DUTY PRECAST CONCRETE. H-20 LOADING, 8" CAST IRON FRAME, LID AND COLLAR. PH: (573)384-5855.



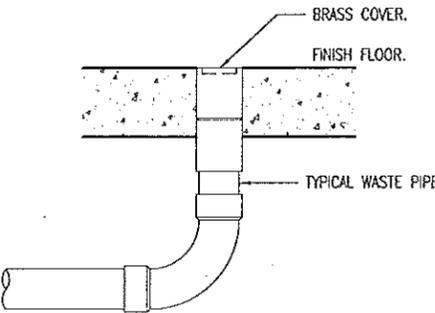
VENT THROUGH ROOF DETAIL

SCALE: NONE



FLOOR DRAIN DETAIL

SCALE: NONE



FLOOR CLEANOUT DETAIL

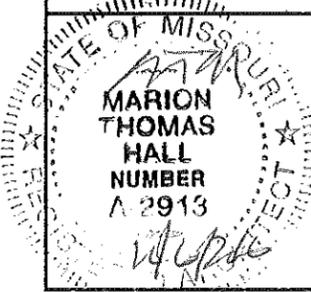
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MECHANICAL NOTES

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. MECHANICAL CONTRACTOR TO PROVIDE ALL DEVICES REQUIRED FOR A FUNCTIONAL SYSTEM.

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. VENT AS CLOSE AS POSSIBLE TO EXTERIOR WALLS.
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.
11. EXTERIOR BELOW GROUND WATER DISTRIBUTION PIPING SHALL RUN A MINIMUM OF 36" BELOW FINISH GRADE.
12. CONTRACTOR TO PROVIDE 1-1/4" BACK FLOW PREVENTER AND A PRESSURE REDUCING VALVE IN 101 MECHANICS AS REQUIRED.
13. PROVIDE BLOCKING TO ALL FIXTURES AS REQUIRED FOR A SECURE APPLICATION.



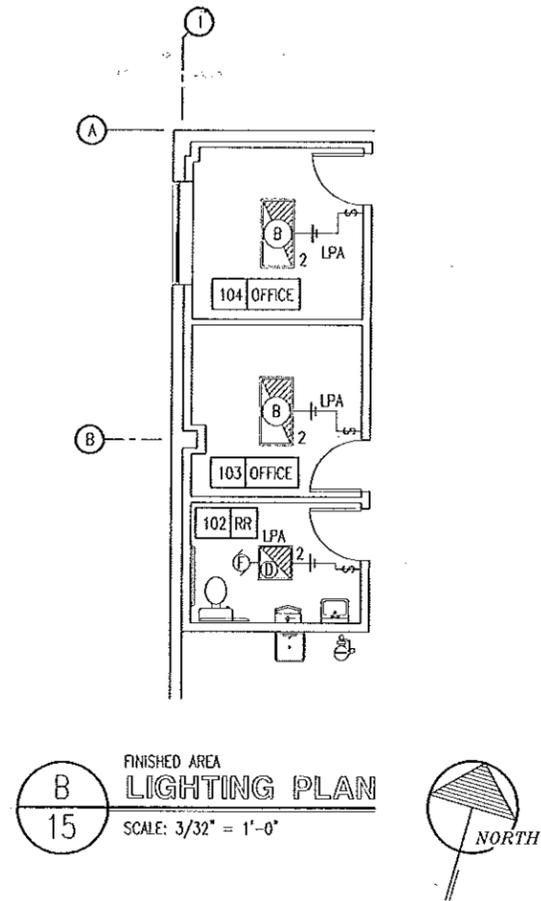
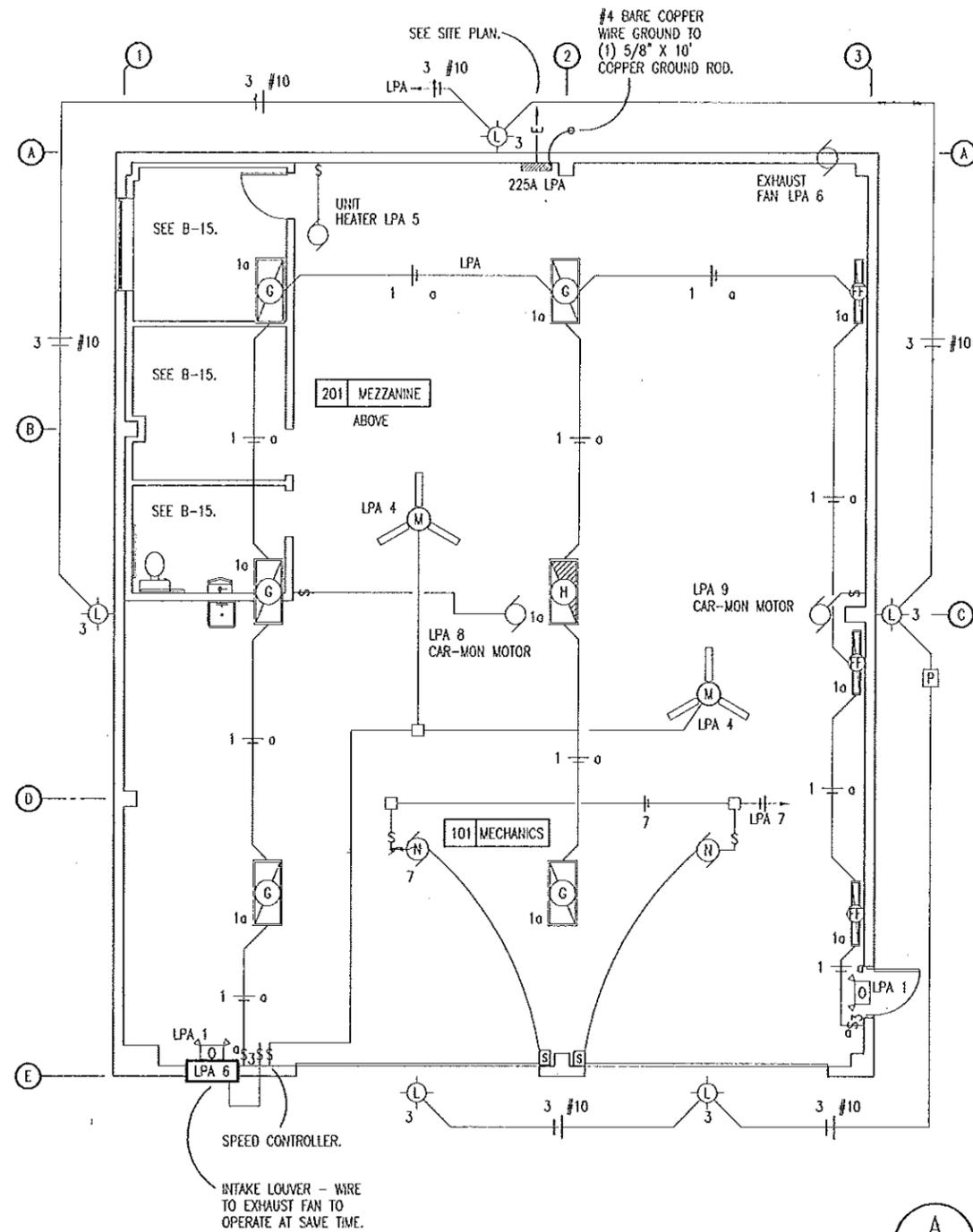
PLUMBING & MECHANICAL NOTES

MISSOURI DEPARTMENT OF TRANSPORTATION  
DIVISION OF GENERAL SERVICES  
FACILITIES MANAGEMENT

A  
14  
PLUMBING & MECHANICAL NOTES  
SCALE: NONE

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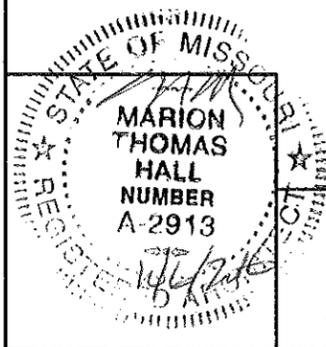
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DATE: 10-1-16  
Sheet  
14 of 17



**B**  
15  
FINISHED AREA  
LIGHTING PLAN  
SCALE: 3/32" = 1'-0"

SEE ELECTRICAL SCHEDULE  
& NOTES SHEET 17.

**A**  
15  
LIGHTING PLAN  
SCALE: 3/32" = 1'-0"

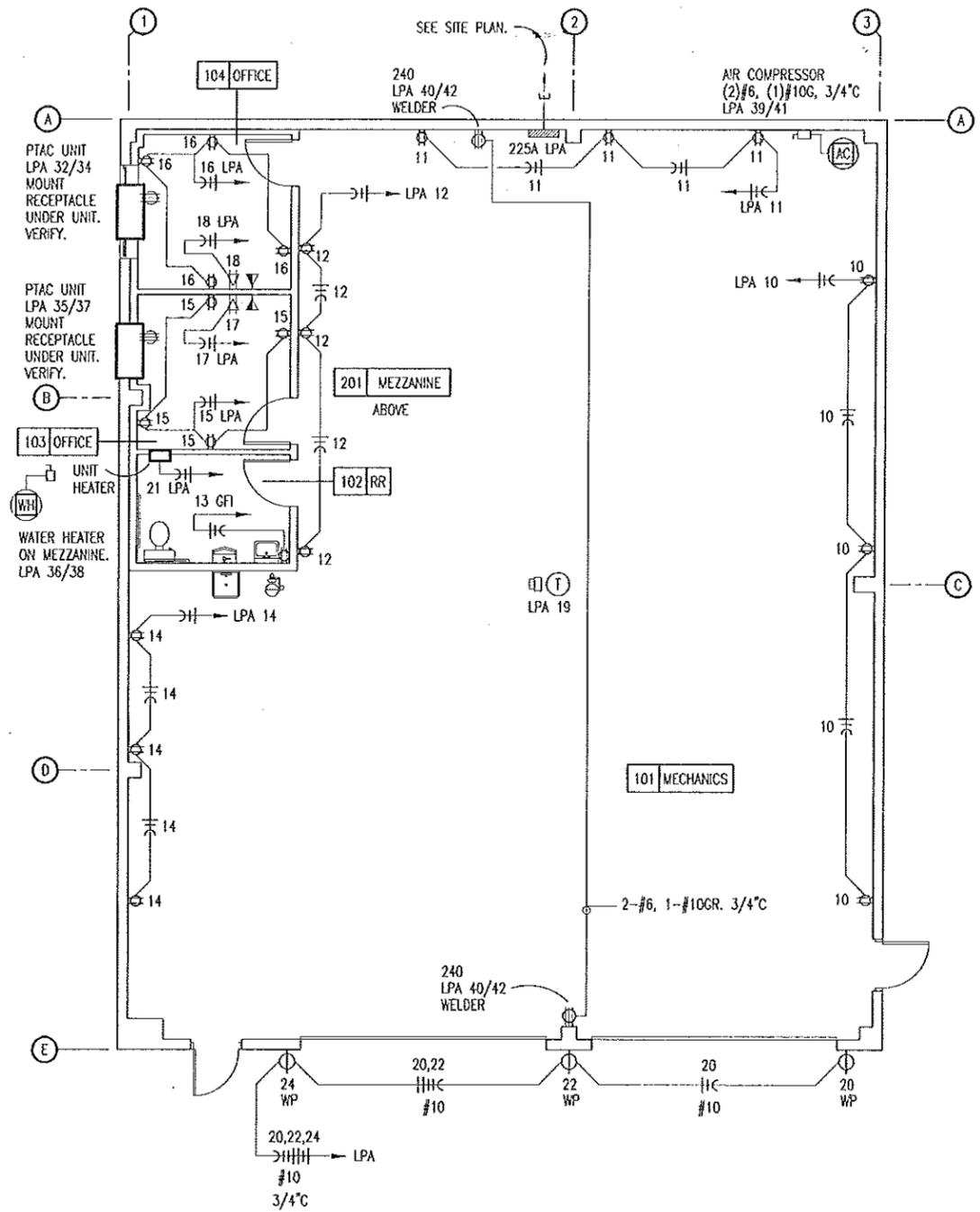


**LIGHTING PLAN**

MISSOURI DEPARTMENT  
OF TRANSPORTATION  
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FACILITIES MANAGEMENT

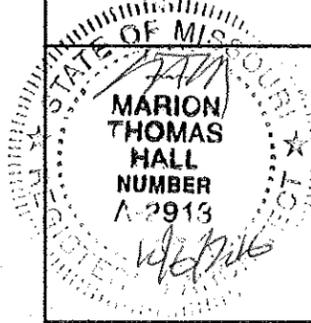
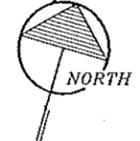
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DATE: 10-1-16  
Sheet  
15 of 17



SEE ELECTRICAL SCHEDULE & NOTES SHEET 17.

**A** POWER PLAN  
16 SCALE: 3/32" = 1'-0"



**POWER PLAN**

MISSOURI DEPARTMENT  
OF TRANSPORTATION  
DIVISION OF GENERAL SERVICES  
FACILITIES MANAGEMENT

Milan Mechanics Building  
Northwest District - Sullivan County  
1800 North Pearl, Milan, MO 63556

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DATE: 9-30-16  
Sheet 16 of 17.

### ELECTRIC SCHEDULE

MANUF.	MODEL	LAMPS		MNT	REMARKS
		#	W		
WILLIAMS 	50G-S24-LED*UT 50/835-RPC12125-EM/BSL310-ED*UT-UNV	LED	51	CLG	24" x 48" STATIC TROFFER FIXTURE, HOUSING: 22 GAUGE DIE FORMED C.R.S. SHIELDING: FROSTED PATTERN #12 & EMERGENCY DRIVER.
WILLIAMS 	50G-S22-LED*UT30/85-RPC12125-EM/BSL310-ED*UT-UNV	LED	25	CLG	24" x 24" STATIC TROFFER FIXTURE, HOUSING: 22 GAUGE DIE FORMED C.R.S. SHIELDING: FROSTED PATTERN #12 & EMERGENCY DRIVER.
BROAN 	GRAINGER #5NP27			CLG	80 CFM CEILING MOUNT BATHROOM VENTILATOR. BROAN WALL CAP, GRAINGER #4C388.
WILLIAMS 	GL-4-L200/840-WG11-DRV-UNV	LED	174	CLG	14-3/16" x 48" DIE-FORMED ALUMINUM HOUSING WITH WIRE GUARD.
WILLIAMS 	GL-4-L200/840-EM/BSL310-WG11-DRV-UNV	LED	174	CLG	14-3/16" x 48" DIE-FORMED ALUMINUM HOUSING WITH WIRE GUARD. BACK MOUNTED EMERGENCY LED DRIVER.
LITHONIA 	TWR1LED 1 40K MVOLT	LED	33	WALL	EXTERIOR, SURFACE MOUNT LIGHT FIXTURE, WITH ALUMINUM HOUSING. PRISMATIC GLASS LENS.
DAYTON 	GRAINGER #5NP23			CLG	SINGLE-SPEED, 48" THREE-BLADE, HEAVY DUTY COMMERCIAL CEILING FAN. ADD SPEED CONTROL WITH REVERSE SWITCH. DAYTON #5NRA4.
	OVERHEAD DOOR OPERATOR			WALL	115V, 3/4 HP, 1-PH, TROLLEY TYPE. SEE SPECIFICATION SECTION 08720.
LITHONIA 	LHOM P W3 R N			WALL	QUANTUM THERMOPLASTIC EXIT/UNIT COMBO (2) LED 5.4 KRYPTON LAMPS.
TORK 	2001			WALL	120V PHOTO ELECTRIC CONTROL OF EXTERIOR LIGHTS.
	OVERHEAD DOOR CONTROL			WALL	THREE BUTTON OVERHEAD DOOR CONTROL AS SUPPLIED BY OVERHEAD DOOR MANUF. SEE SPECIFICATION SECTION 08720.
REELCRAFT 	L 4050 163 1			CLG	CEILING MOUNTED SPRING RETRACTABLE, ELECT. CORD REEL WITH INCANDESCENT LAMP & THREE PRONG OUTLET PLUG.
CREE 	LS4-40L-40K-10V-120	LED	40	WALL	2-5/8" x 48" SURFACE AMBIENT, 22 GAUGE, LOW-GLARE ACRYLIC LENS, WHITE. MOUNT 92" 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.

### 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 21142 VA B PHASE 22953 VA TOTAL 44095 VA 184 A	
CIR	SERVICE	VA	BKR	BKR	VA	SERVICE	CIR
1	101 LIGHTS	1698	20A1P	A	20A1P	102,103,104 LIGHTS	2
3	EXTERIOR LIGHTS	165	20A1P	B	20A1P	CEILING FANS	4
5	UNIT HEATER	456	20A1P	A	20A1P	EXHAUST FAN & DAMPER	6
7	GARAGE DOOR OPENERS	2576	30A1P	B	20A1P	CARBON MONOXIDE	8
9	CARBON MONOXIDE	1656	20A1P	A	20A1P	RECEPTACLES	10
11	RECEPTACLES	540	20A1P	B	20A1P	RECEPTACLES	12
13	RR GFI RECEPTACLE	180	20A1P	A	20A1P	RECEPTACLES	14
15	103 OFFICE RECEPTACLES	720	20A1P	B	20A1P	104 OFFICE RECEPTACLES	16
17	103 DEDICATED RECEPTACLE	180	20A1P	A	20A1P	104 DEDICATED RECEPTACLE	18
19	CORD REEL	540	20A1P	B	20A1P	1000 EXTERIOR - RECEPTACLE	20
21	ELECTRIC UNIT HEATER	372	20A1P	A	20A1P	1000 EXTERIOR - RECEPTACLE	22
23	SPARE	-	20A1P	B	20A1P	1000 EXTERIOR - RECEPTACLE	24
25				A			26
27				B			28
29				A			30
31				B	20A2P	1440 104 - PTAC UNIT	32
33				A	1440		34
35	103 - PTAC UNIT	1440	20A2P	B	30A2P	2600 WATER HEATER	36
37		1440		A	2600		38
39	AIR COMPRESSOR	3360	30A2P	B	50A2P	4500 101 WELDER	40
41		3360		A	4500		42

⊙ CIRCUIT BREAKER SHALL BE GFI RATED

### 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.
- ALL RECEPTACLES IN BAY 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.
- SEE SPECIFICATION SECTION 16100 - ELECTRICAL FOR ADDITIONAL REQUIREMENTS.
- CONTRACTOR TO PROVIDE CONDUCTORS IN CONDUIT AS REQUIRED FROM A EXISTING DISCONNECT ON AN EXISTING POWER POLE APPROXIMATELY 20'-0"± FROM NORTH THROUGH FLOOR WITH 4" FIBER OPTIC SWEEP TO (LPA) 225A PANEL BOARD INSIDE NEW BUILDING FOR A FUNCTIONAL SYSTEM. CONTRACTOR TO ALSO INSTALL PARALLEL (1) 2" SCHEDULE 40 PVC WITH FIBER SWEEP UP THROUGH 101 MECHANICS FLOOR AND CAP 12" A.F.F AND EXTEND TO THE NORTH 5'-0", 24" BELOW GRADE & CAP.

### LEGEND

- ⊙ WP SINGLE RECEPTACLE MOUNTED IN FS BOX WITH HUBBELL HBL7423 COVER.
- \$ SINGLE POLE SWITCH, FLUSH MOUNTED IN FINISHED AREAS @ 48" A.F.F.
- ⊙<sup>3</sup> 3-WAY SWITCH, SURFACE MOUNTED IN UNFINISHED AREAS @ 48" A.F.F.
- ⊙ DUPLEX RECEPTACLE FLUSH MOUNTED IN FINISHED AREAS @ 18" A.F.F. TO BOTTOM OF OUTLET.
- ⊙ DUPLEX RECEPTACLE SURFACE MOUNTED IN UNFINISHED AREAS @ 48" A.F.F.
- ⊙ WELDER RECEPTACLE (LEVITON #5374) SURFACE MOUNTED 42" A.F.F., MOUNT IN 4" SQUARE BOX WITH RAISED COVER.
- ⊙ GFI DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTER. PROVIDE SEPARATE GROUND PER CIRCUIT. TYPICAL.
- JUNCTION BOX, SIZE FOR WIRE, FILL ACCORDING TO ARTICLE 314-16 OF THE N.E.C.
- NON FUSED DISCONNECT SWITCH.
- ▽ DEDICATED RECEPTACLE FLUSH MOUNTED IN FINISHED AREAS @ 18" A.F.F. TO BOTTOM OF OUTLET.
- ▽ VOICE AND DATA OUTLET FLUSH MOUNTED IN FINISHED AREAS @ 18" A.F.F. TO BOTTOM OF OUTLET.

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



ELECTRICAL PANEL

MISSOURI DEPARTMENT  
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17 of 17