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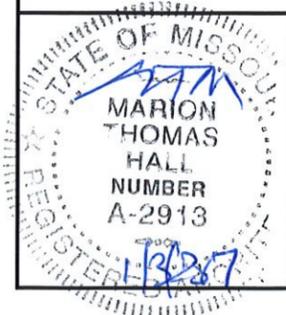
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MISSOURI DEPARTMENT OF TRANSPORTATION

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

CODE REQUIREMENTS

- BUILDING CODE - CURRENT IBC
- PLUMBING CODE - CURRENT IBC
- MECHANICAL CODE - CURRENT IBC
- 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

DESIGN BY: LARRY CARVER

DATE: 12-23-16

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HIGHWAY 5

LEGEND (EXISTING)

- WATER ----- W -----
- BURIED ELECTRICAL ----- E -----
- SANITARY ----- SAN -----
- SANITARY MANHOLE - SMH
- POWER POLE - PP
- 1,000 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:

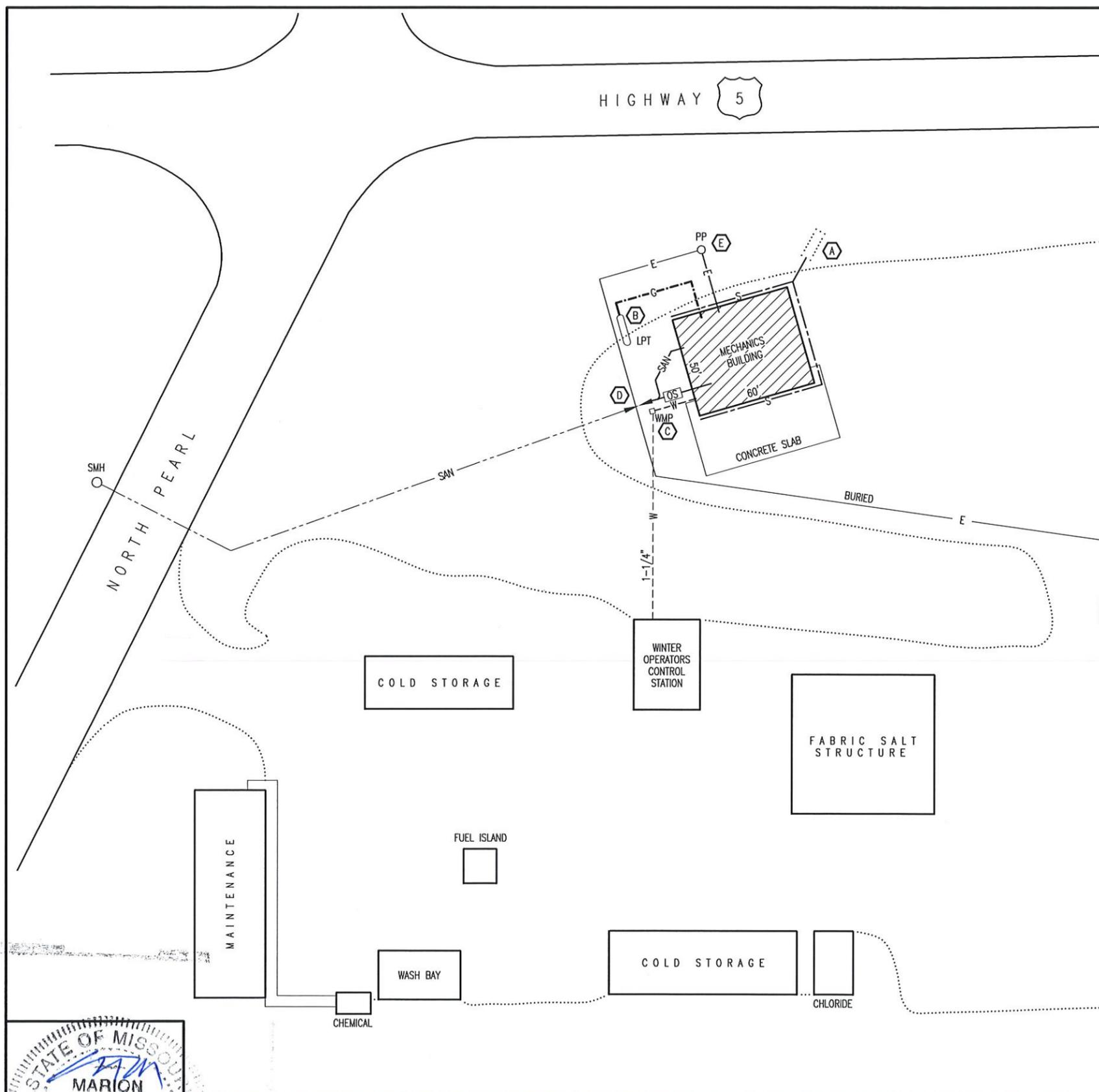
- EXCAVATION OF THE SUB GRADE.
- EXCAVATING OF FOOTINGS.
- ALL BACK FILL MATERIAL INSIDE AND OUTSIDE NEW BUILDING.
- CRUSHED ROCK BASE UNDER BUILDING & APPROACH SLAB.
- BACK FILL ALONG APPROACH SLAB A MINIMUM OF 6" BELOW TOP OF SLAB AND SIDEWALK.
- PROVIDE 6" OF COMPACTED 1" MINUS ROCK UP TO 15'-0" OUTSIDE 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. SEE DETAIL C-5.
- 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
2

SITE PLAN

SCALE: 1" = 60'-0"

NORTH

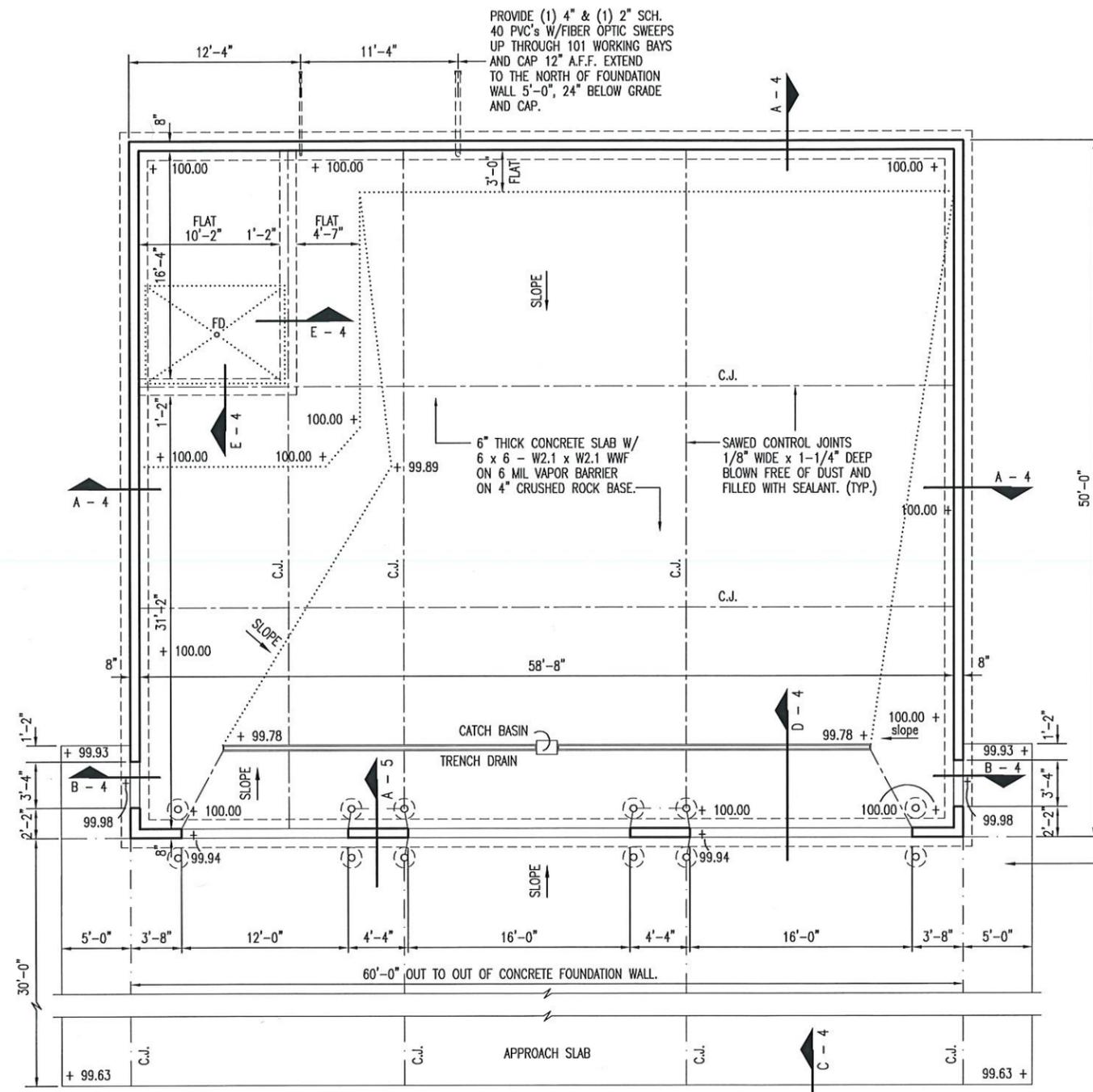
STATE OF MISSOURI
 REGISTERED PROFESSIONAL ENGINEER
 MARION THOMAS HALL
 NUMBER A-2913
 1/3/2016

SITE PLAN

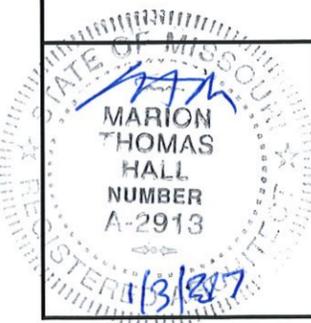
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 DIVISION OF GENERAL SERVICES
 FACILITIES MANAGEMENT

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 1800 North Pearl, Milan, MO 63556

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



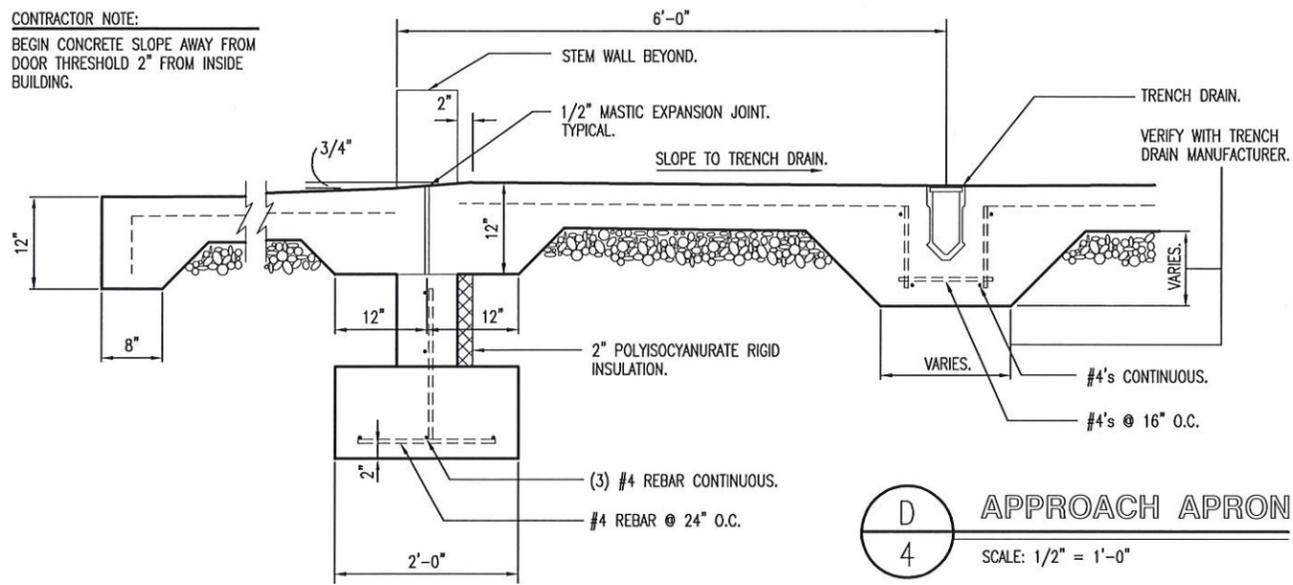
FOUNDATION PLAN

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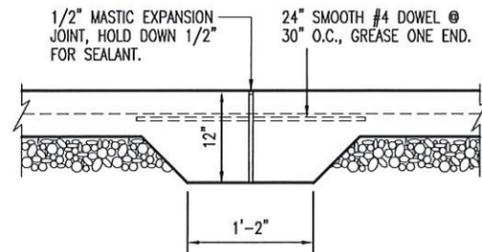
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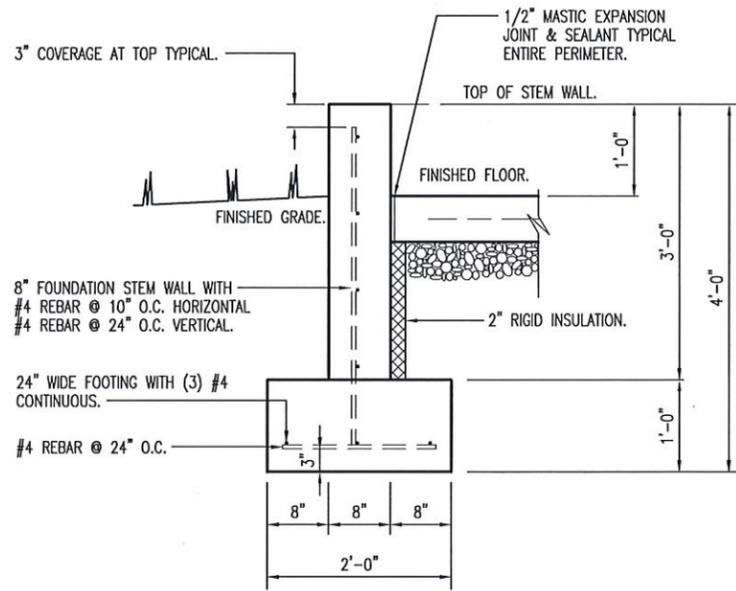
CONTRACTOR NOTE:
 BEGIN CONCRETE SLOPE AWAY FROM
 DOOR THRESHOLD 2" FROM INSIDE
 BUILDING.



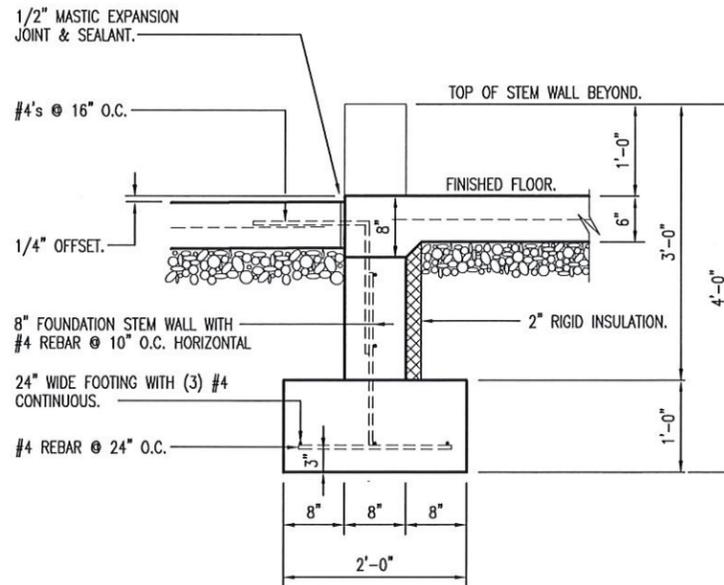
D APPROACH APRON
 4 SCALE: 1/2" = 1'-0"



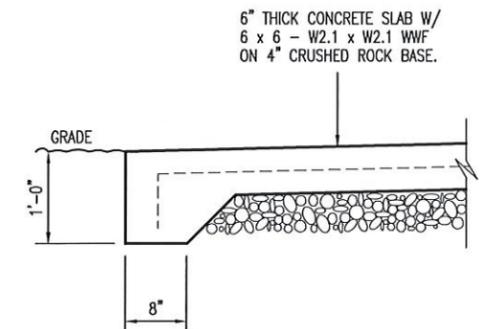
E EXPANSION JOINT
 4 SCALE: 1/2" = 1'-0"



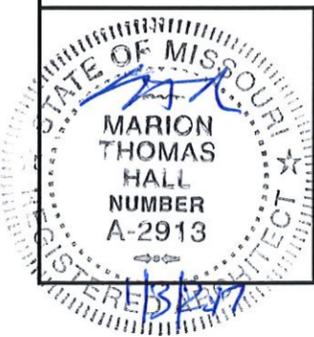
A STEM WALL
 4 SCALE: 1/2" = 1'-0"



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



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



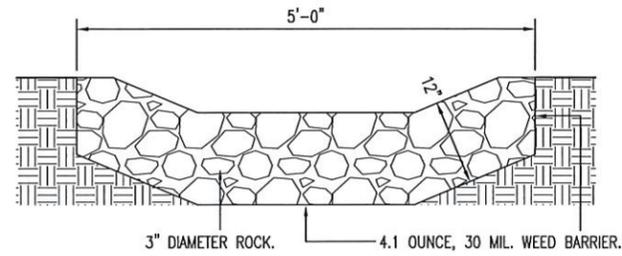
FOUNDATION DETAILS

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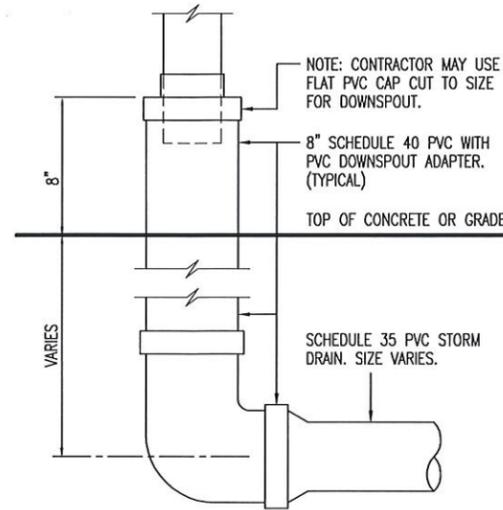
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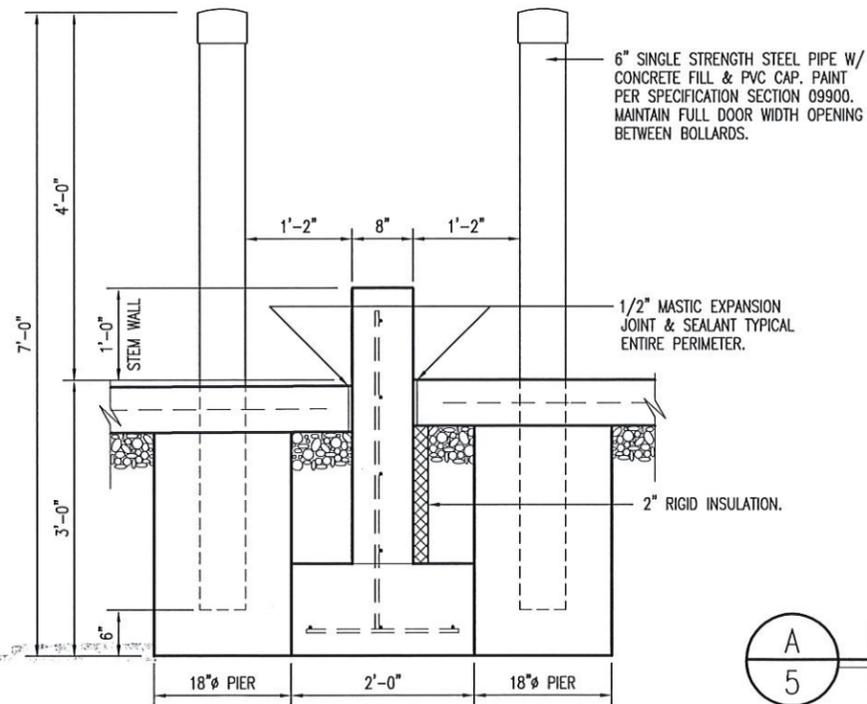
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C
5
RIP - RAP SECTION
SCALE: 1/2" = 1'-0"



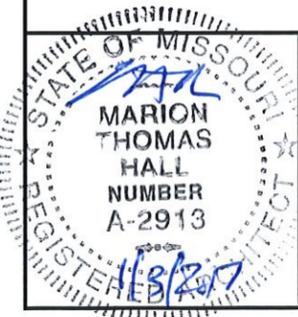
B
5
DOWNSPOUT ADAPTER
SCALE: 3/4" = 1'-0"



A
5
BOLLARD @ FOOTING DETAIL
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. 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.
16. PROVIDE PRE-CAST TRENCH DRAIN & CATCH BASIN AS SPECIFIED. INSTALL AS RECOMMENDED BY THE MANUFACTURER. ACTUAL CONSTRUCTION AND INSTALLATION MAY REQUIRE SOME FIELD MODIFICATIONS. ANY DEVIATION FROM THE DRAWINGS AND SPECIFICATIONS SHALL HAVE PRIOR APPROVAL FROM THE ARCHITECT OR BUILDING INSPECTOR.



FOUNDATION DETAILS

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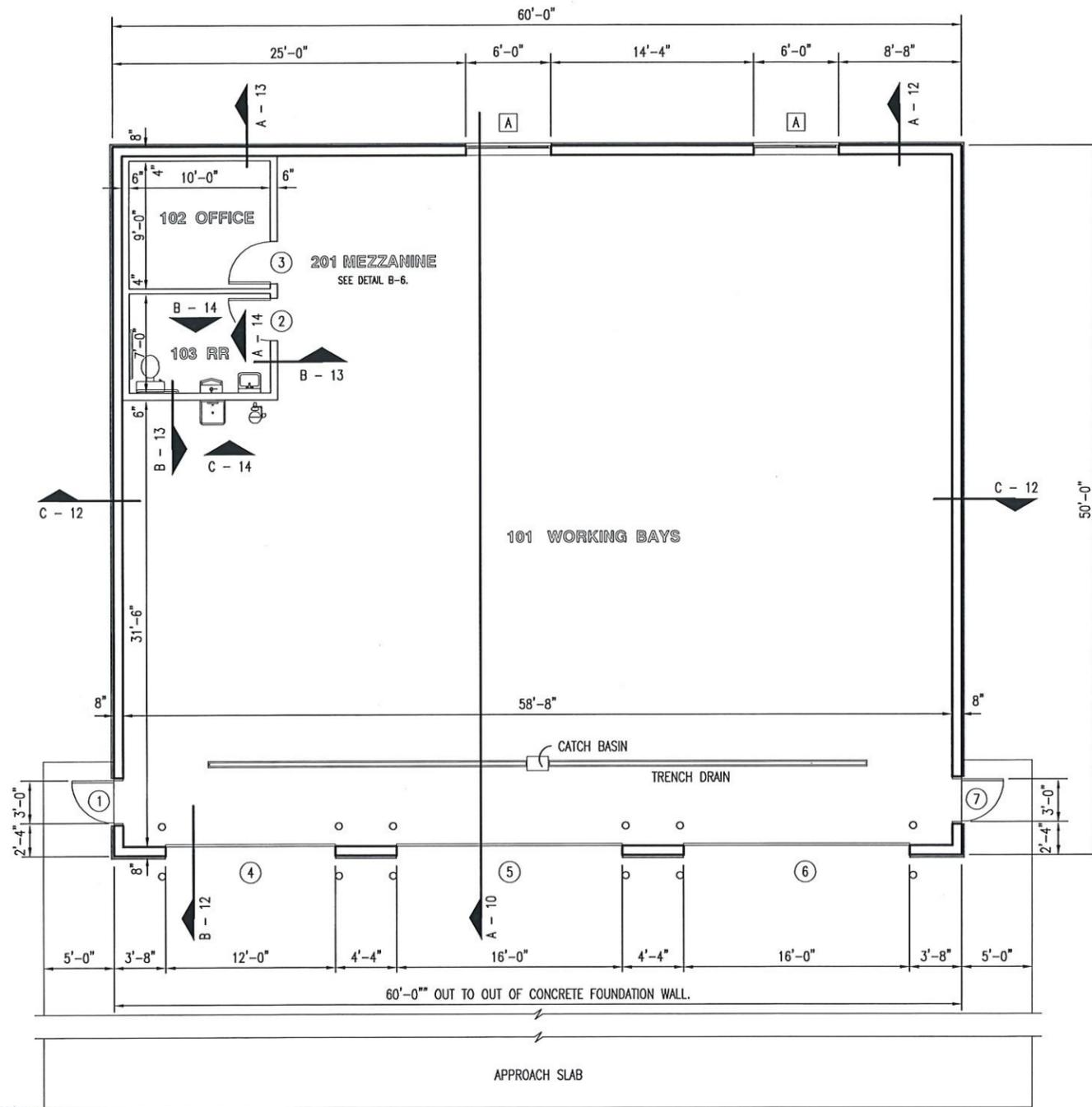
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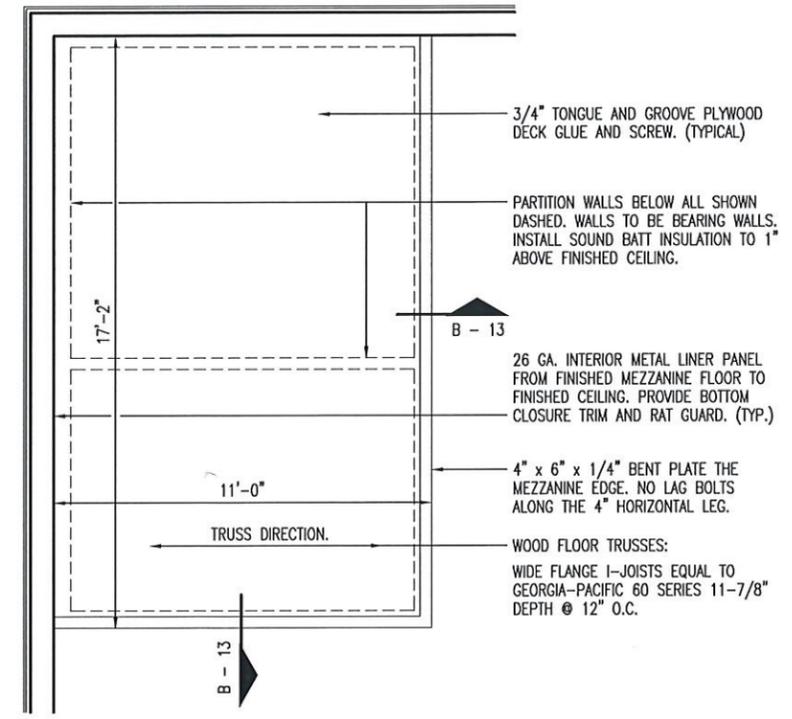
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A
6
FLOOR PLAN
SCALE: 3/32" = 1'-0"



B
6
MEZZANINE PLAN
SCALE: 3/16" = 1'-0"



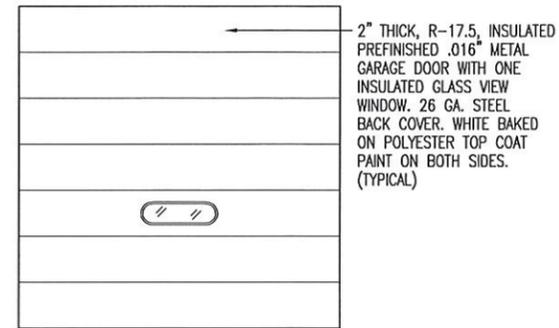
FLOOR PLAN

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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	A	I	C-11	6-1/2"	1
2	3'-0" x 7'-0" x 1-3/4"	RH	D	I	D-11	7-5/8"	2
3	3'-0" x 7'-0" x 1-3/4"	LH	C	I	D-11	7-5/8"	3
4	12'-0" x 14'-0" x 2"	-	A	-	A & B-11	-	-
5	16'-0" x 14'-0" x 2"	-	A	-	A & B-11	-	-
6	16'-0" x 14'-0" x 2"	-	A	-	A & B-11	-	-
7	3'-0" x 7'-0" x 1-3/4"	RHR	D	I	C-11	6-1/2"	1



TYPE A

3'-0" x 7'-0" x 1-3/4" INSULATED HOLLOW METAL DOOR W/11" x 11" x 3/4" INSUL. TEMPERED GLASS. REINFORCED FOR CLOSER.



TYPE B



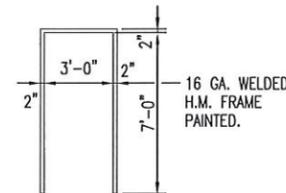
TYPE C

3'-0" x 7'-0" x 1-3/4" HOLLOW METAL DOOR PAINTED.



TYPE D

3'-0" x 7'-0" x 1-3/4" HOLLOW METAL DOOR W/ 1/4" TEMPERED GLASS. SIZE 4" x 25". PAINTED.



TYPE I

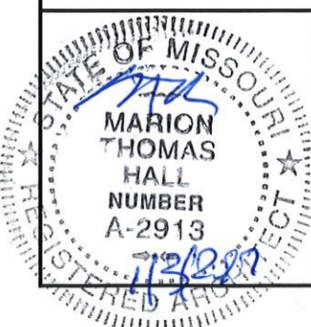
WINDOW SCHEDULE	
	SEE DETAIL E-11. A
6'-0" x 3'-0" ALUMINUM DOUBLE HORIZONTAL SLIDER WITH SECURITY SCREEN.	SILL HEIGHT: 48" A.F.F.

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.

FINISH SCHEDULE												
NO.	ROOM	FLOOR	WALLS					BASE		CEILING		
			3/4" T & G PLYWOOD.	CURE AND SEALER ON CONCRETE.	26 GA. INTERIOR PANELS	1/2" AC PLYWOOD PAINTED ON EXTERIOR SIDE OF OFFICE WALL.	5/8" GYPSUM BOARD.	5/8" GREEN GYP. BD. PAINTED.	NONE	4" VINYL	4" VINYL ON EXTERIOR SIDE OF OFFICE WALL.	26 GA. CEILING PANELS.
101	WORKING BAYS		●	●	●			●	●	●		
102	OFFICE		●			●	●	●			●	
103	REST ROOM		●				●	●	●		●	
201	MEZZANINE		●		●			●		●	●	

HVAC SCHEDULE						
SYM.	UNIT	MANUFACTURER	BTU OUTPUT	FUEL	VOLTAGE	REMARKS
A	36" x 36" SHUTTER MOUNT EXHAUST FAN WITH WEATHERHOOD	DAYTON 1HLB6 & 1WBW2 OR EQUAL 6.4 AMPS	6,480 CFM	ELECTRIC	115	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 225 OR EQUAL	186,750	PROPANE	115	SINGLE BURNER COMBUSTION, DIRECT SPARK IGNITION, 100% LOCK-OUT & CL-1 STANDARD HEATING ONLY THERMOSTAT.
D	CARBON MONOXIDE EXHAUST SYSTEM	CAR-MON MODELS TSR-S32, 6" REEL CMW-9 OR EQUAL	---	ELECTRIC	115	INCLUDES HOSE, DIRECT DRIVE FLANGE MOUNTED EXHAUST FAN, DUCTING, EXTERIOR WALL HOOD, 3/4 HP MOTOR, 13.8 AMP.
E	PTAC UNIT - HEAT PUMP	FRIEDRICH MODEL PDH07K3SG OR EQUAL	COOL 7.2K HEAT 6K	ELECTRIC	208/230	EER 12. INCLUDE PDXWSA WALL SLEEVE, PDXDAA LATERAL DUCT KIT & PXGA EXTERIOR GRILL. MOUNT 18" A.F.F. TO BOTTOM.



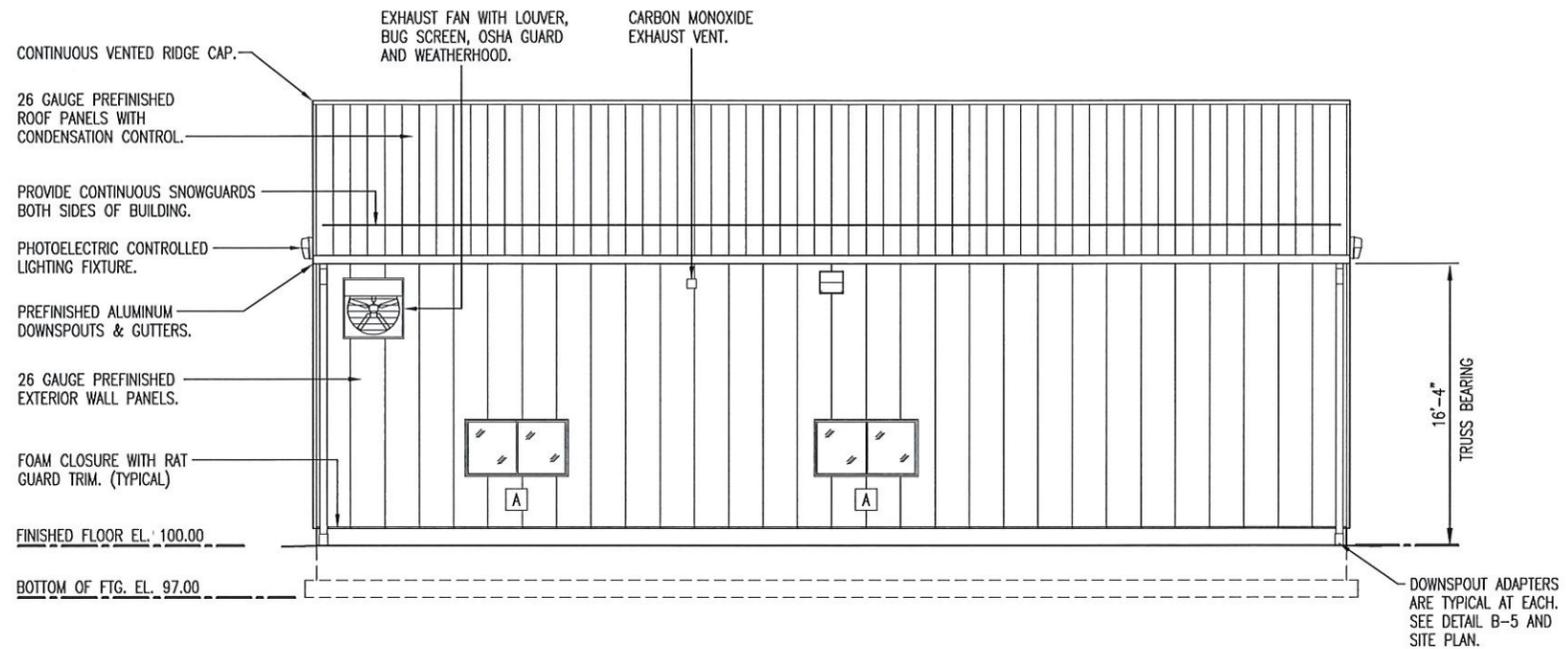
SCHEDULES

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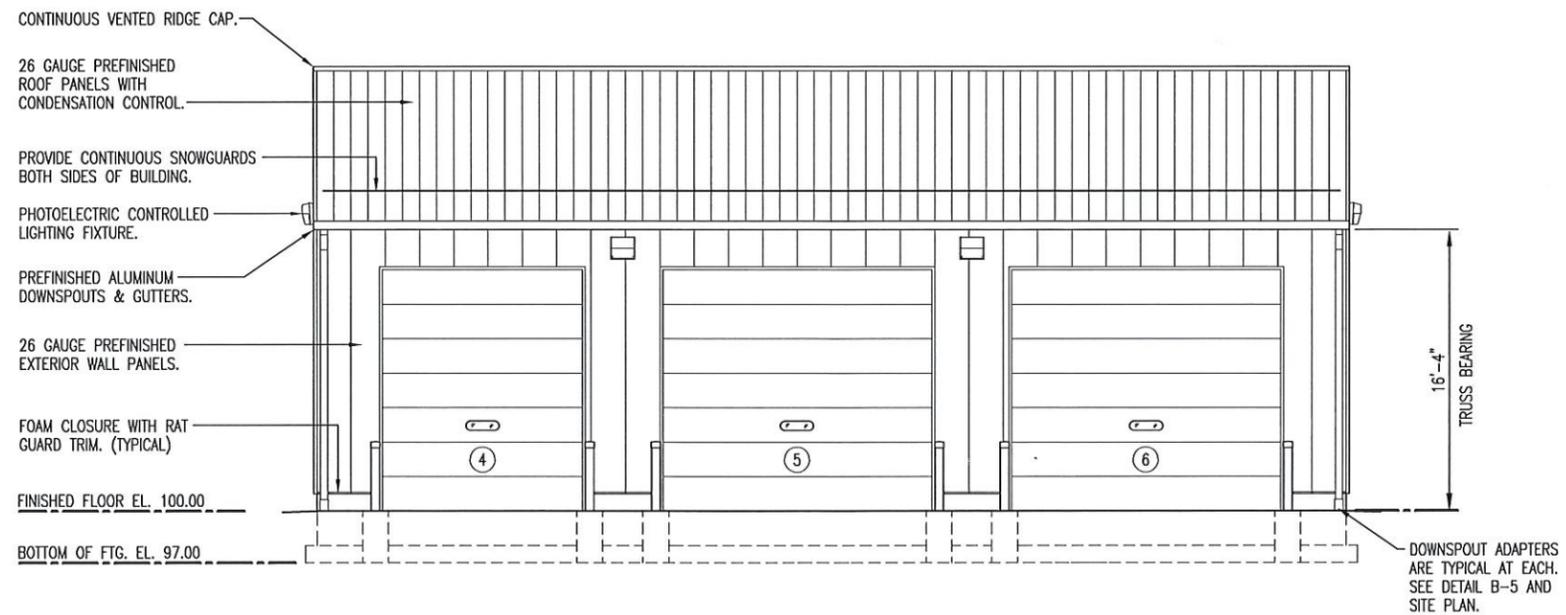
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1800 North Pearl, Milan, MO 63556

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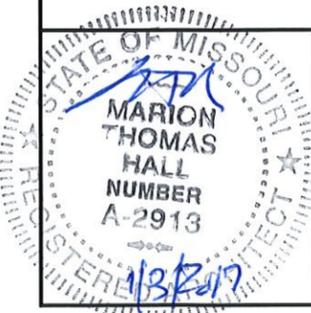
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B WEST ELEVATION
8 SCALE: 3/32" = 1'-0"



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

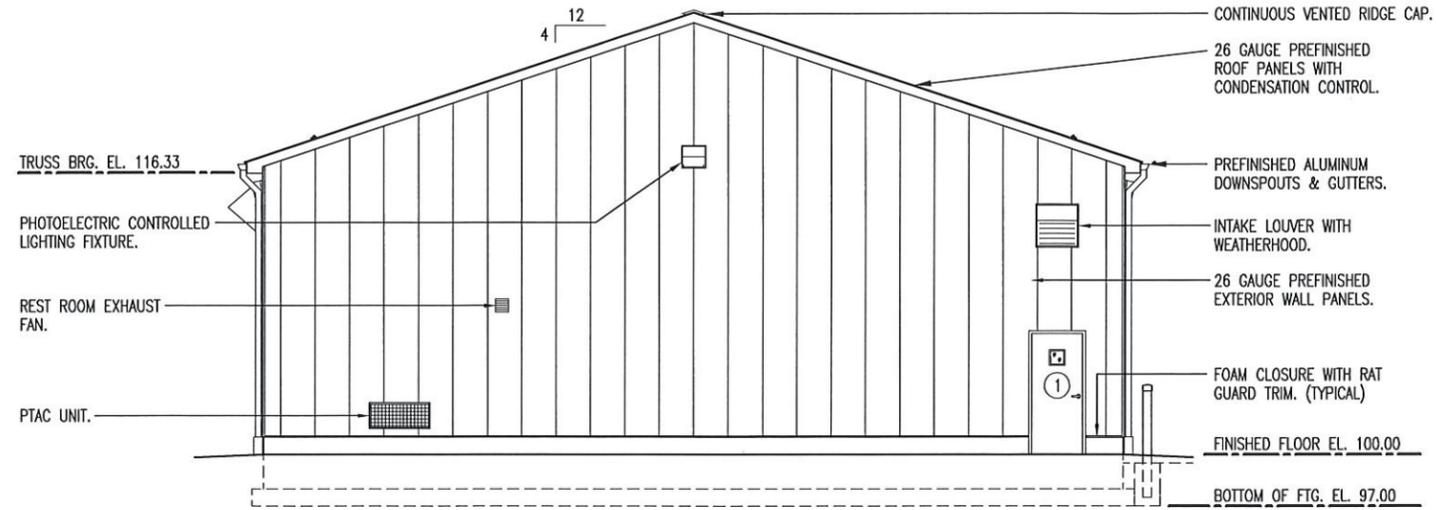


EAST & WEST ELEVATIONS

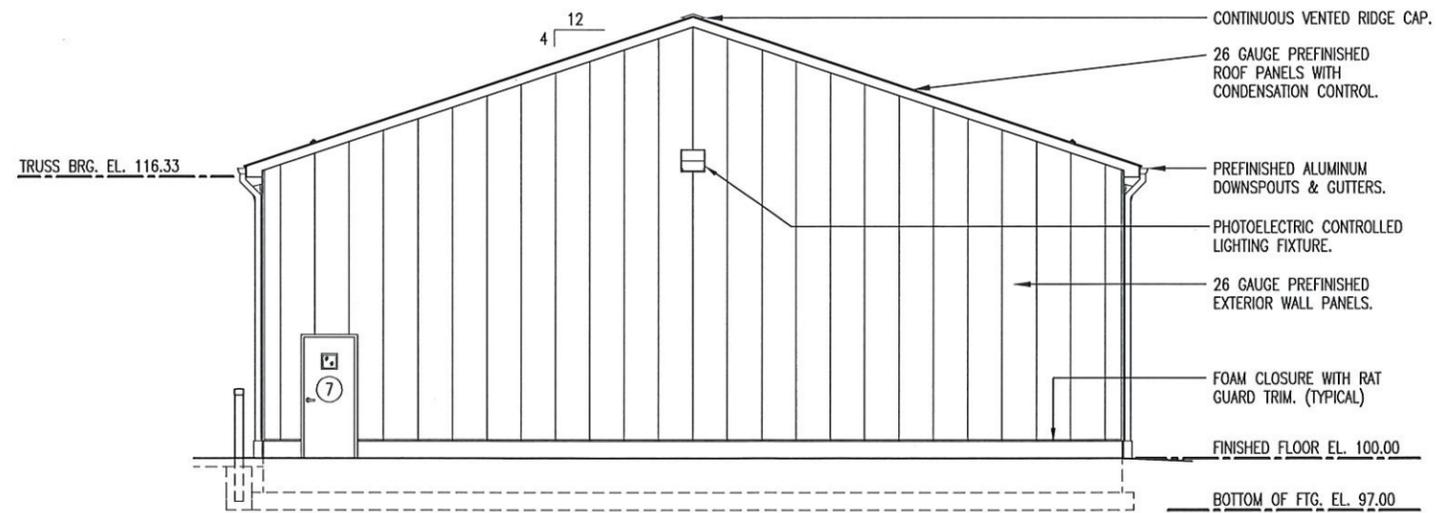
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B SOUTH ELEVATION
 9 SCALE: 3/32" = 1'-0"



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



NORTH & SOUTH ELEVATIONS

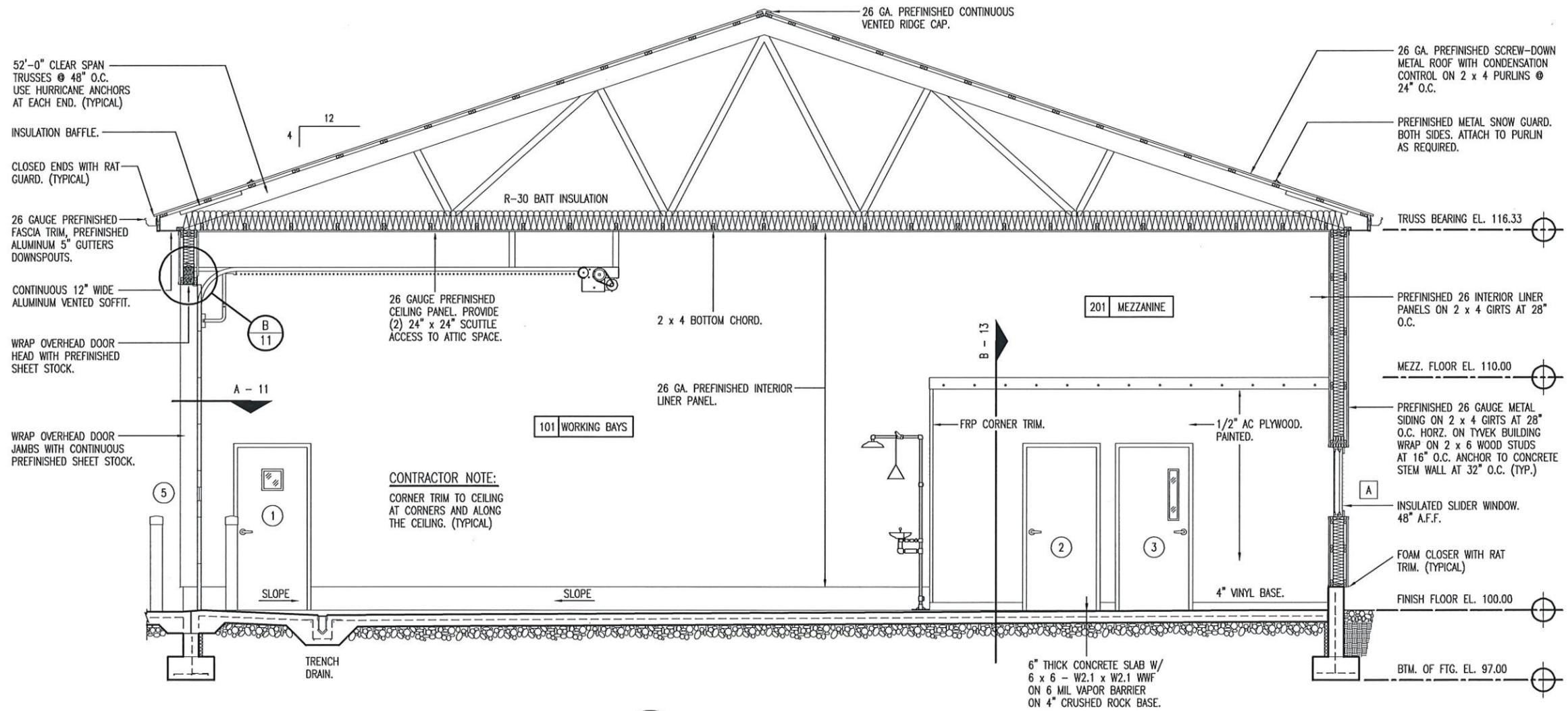
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A
10 **BUILDING SECTION**
SCALE: 3/16" = 1'-0"

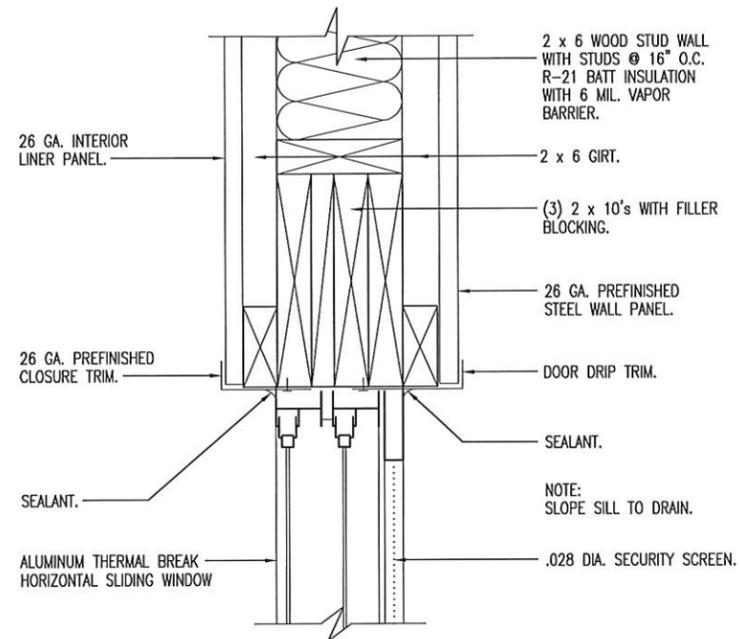


BUILDING SECTION

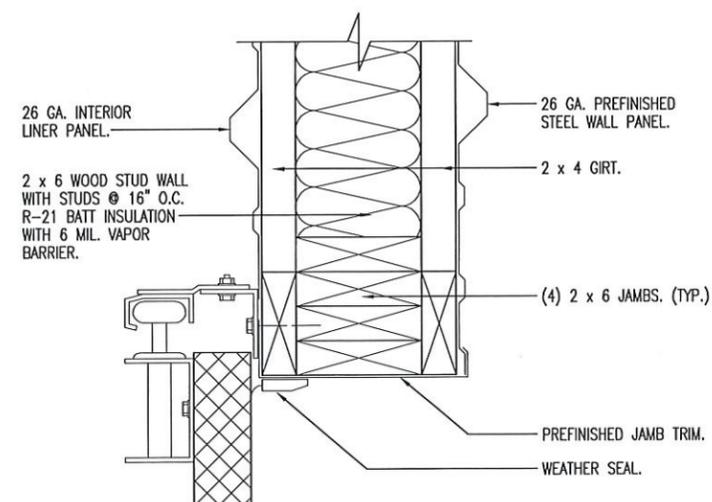
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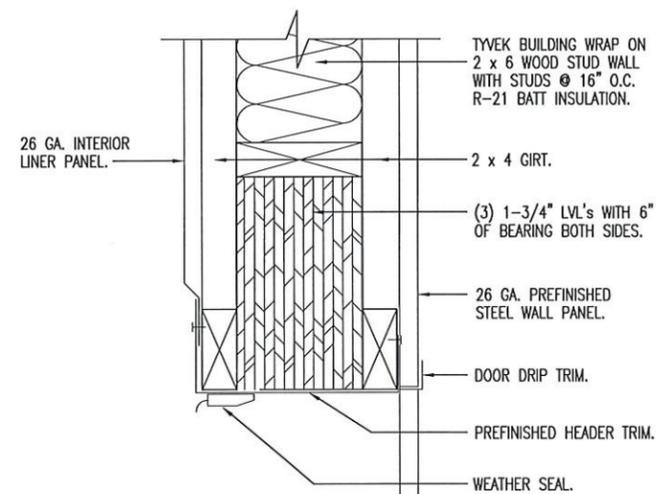
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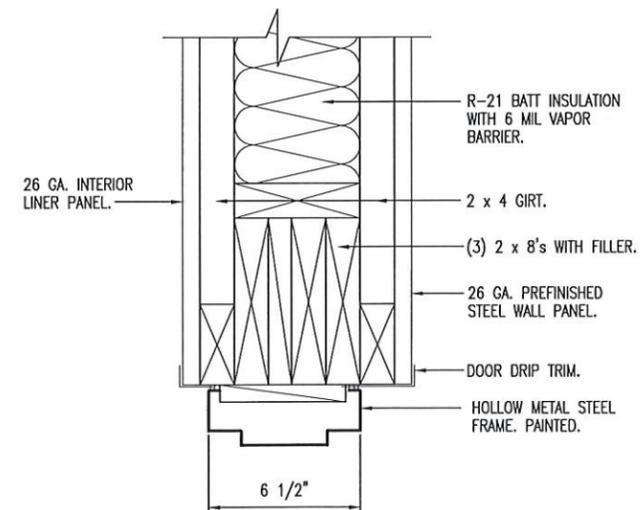
E
11 JAMB & SILL SIMILAR
WINDOW HEAD
SCALE: 1-1/2" = 1'-0"



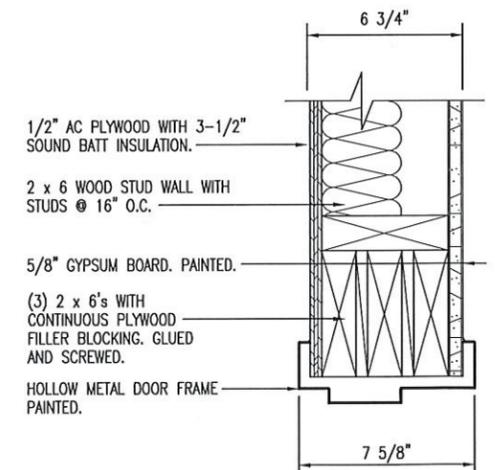
A
11 GARAGE DOOR JAMB
SCALE: 1-1/2" = 1'-0"



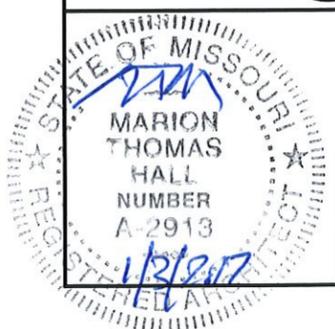
B
11 GARAGE DOOR HEAD
SCALE: 1-1/2" = 1'-0"



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



D
11 JAMB SIMILAR
DOOR HEAD
SCALE: 1-1/2" = 1'-0"



HEAD & JAMB DETAILS

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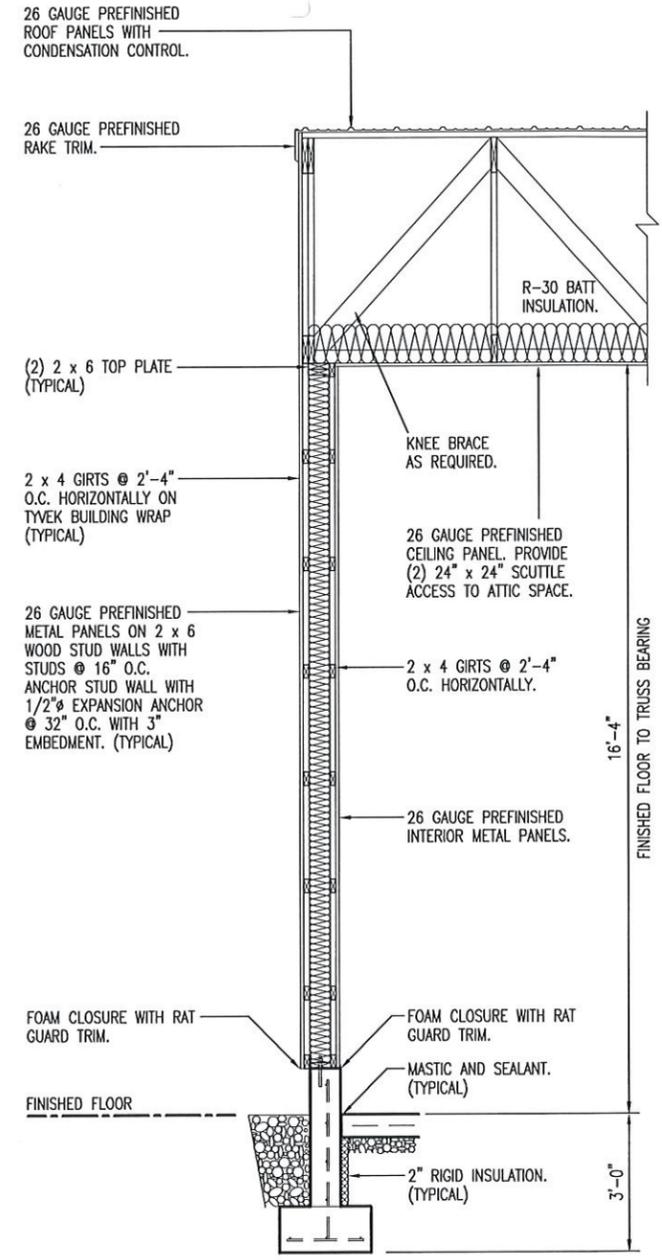
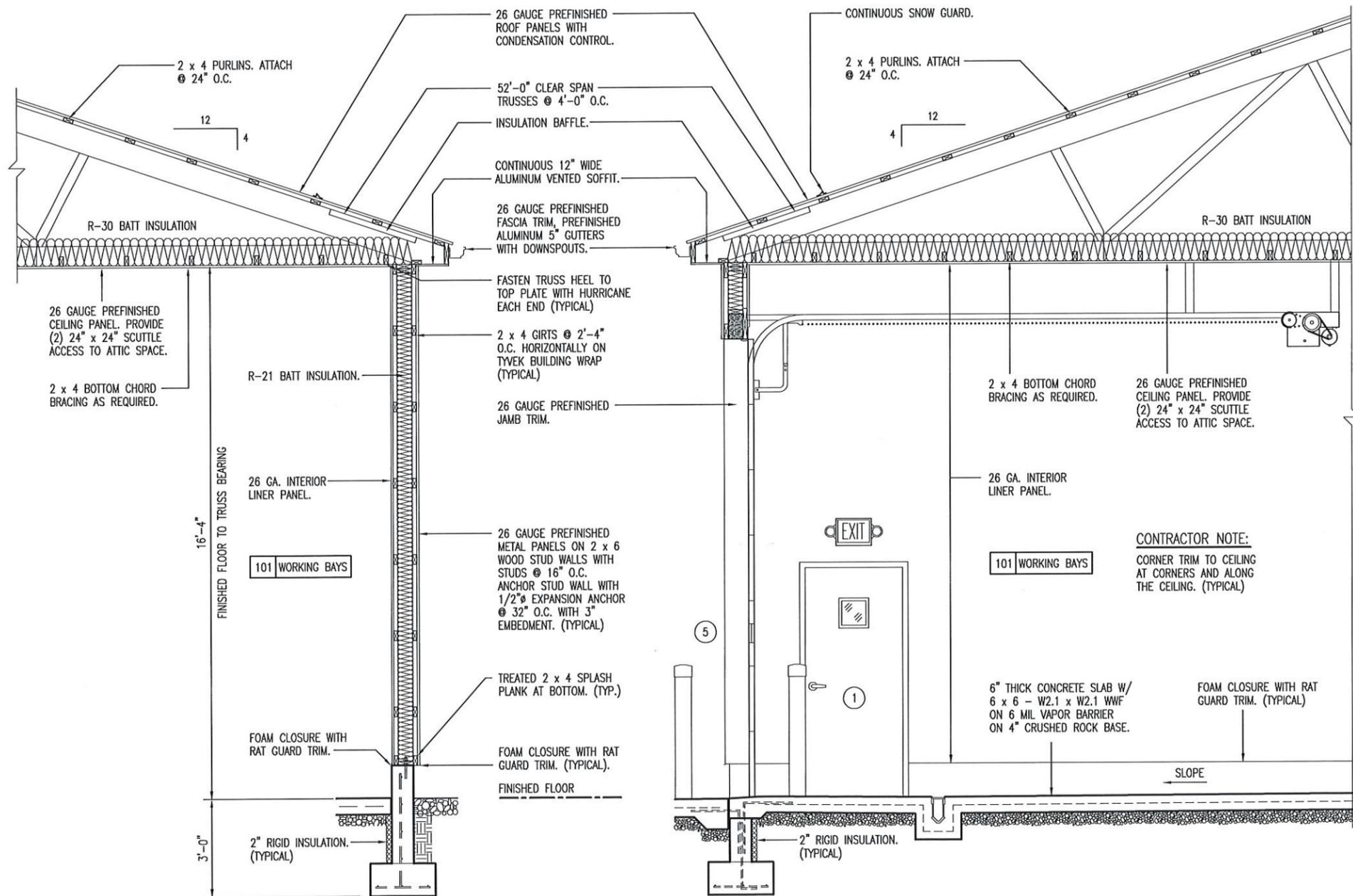
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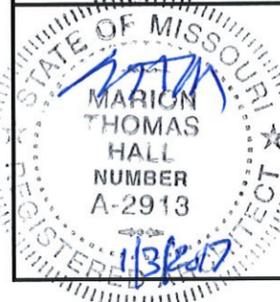
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A SIDEWALL SECTION
 12 SCALE: 1/4" = 1'-0"

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

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

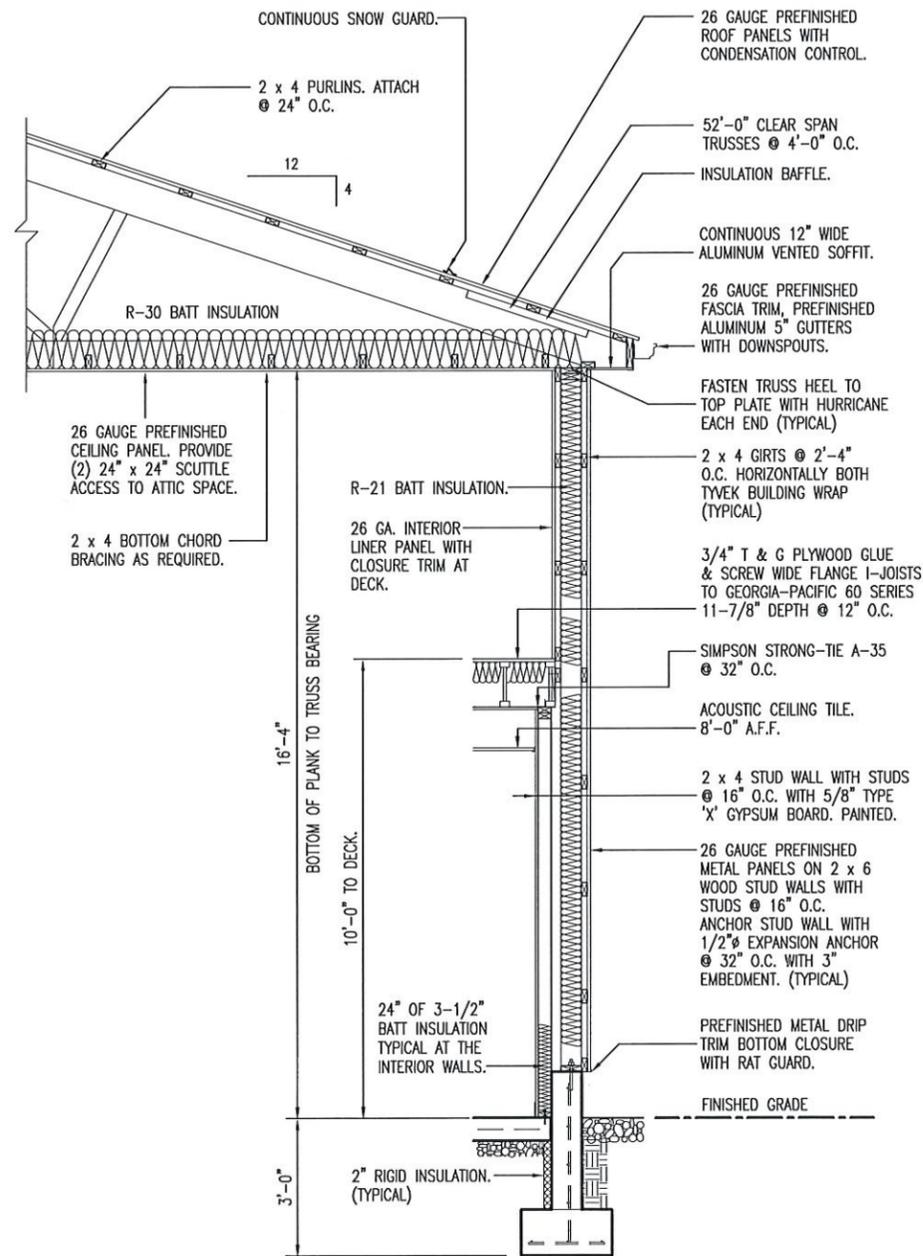


WALL SECTIONS

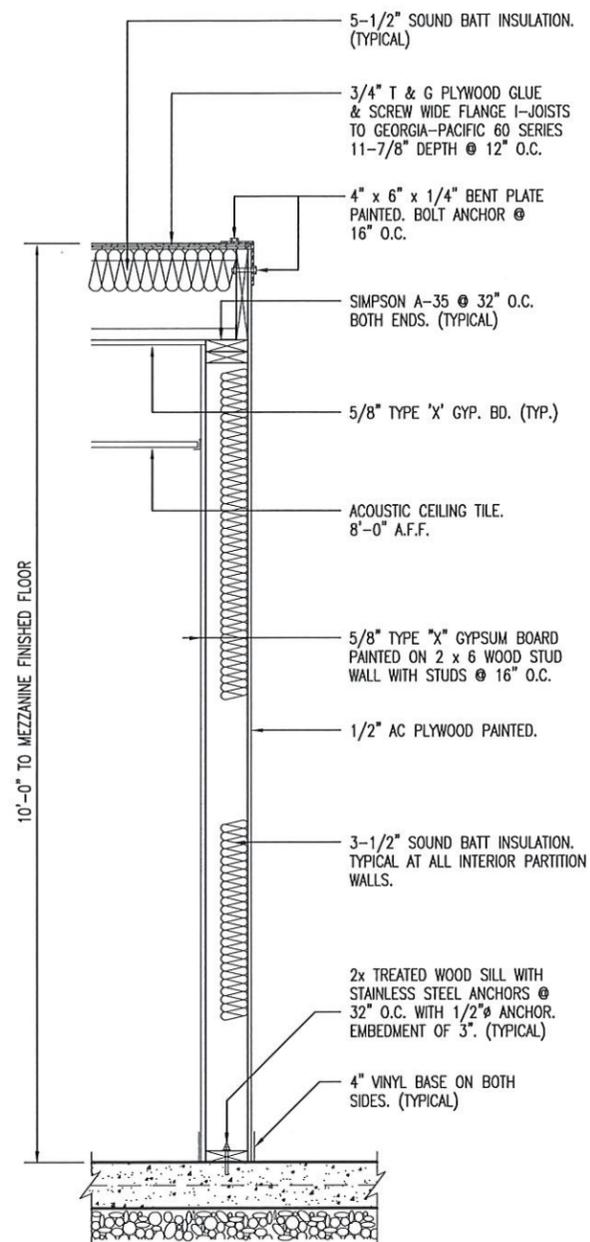
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 DIVISION OF GENERAL SERVICES
 FACILITIES MANAGEMENT

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 Northwest District - Sullivan County
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DESIGN BY: LARRY CARVER
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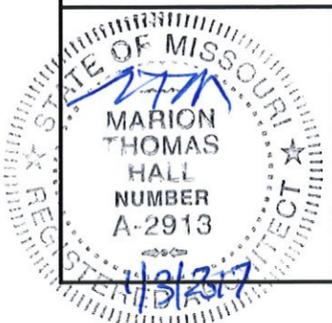


A SIDEWALL SECTION
13 SCALE: 1/4" = 1'-0"



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

WALL SECTIONS



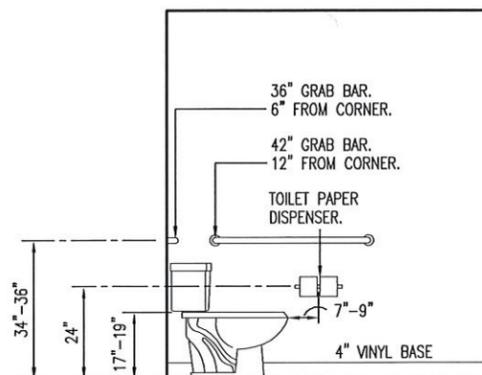
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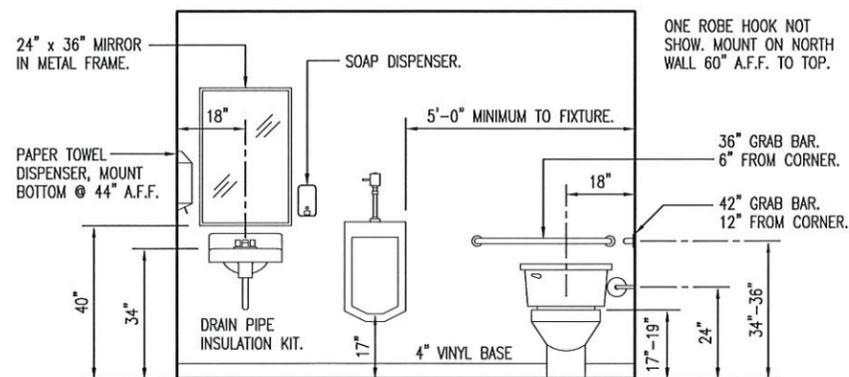
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PROVIDE BLOCKING FOR ALL ACCESSORIES
COMPLY WITH 2010 ADA MOUNTING HEIGHTS

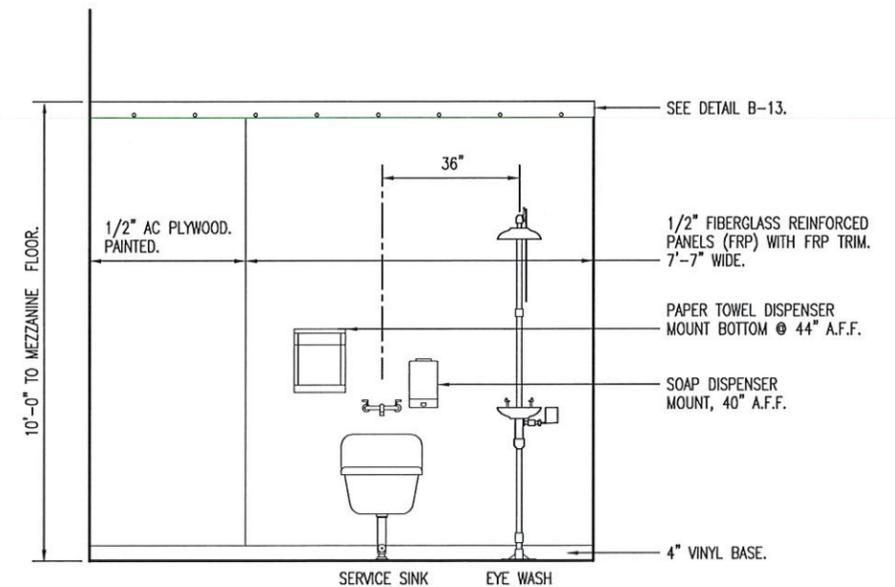


A REST ROOM ELEVATION
14 SCALE: 1/4" = 1'-0"

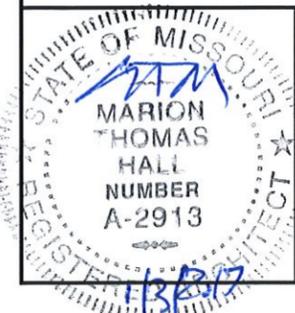
PROVIDE BLOCKING FOR ALL ACCESSORIES
COMPLY WITH 2010 ADA MOUNTING HEIGHTS



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



C FIXTURE ELEVATION
14 SCALE: 1/4" = 1'-0"

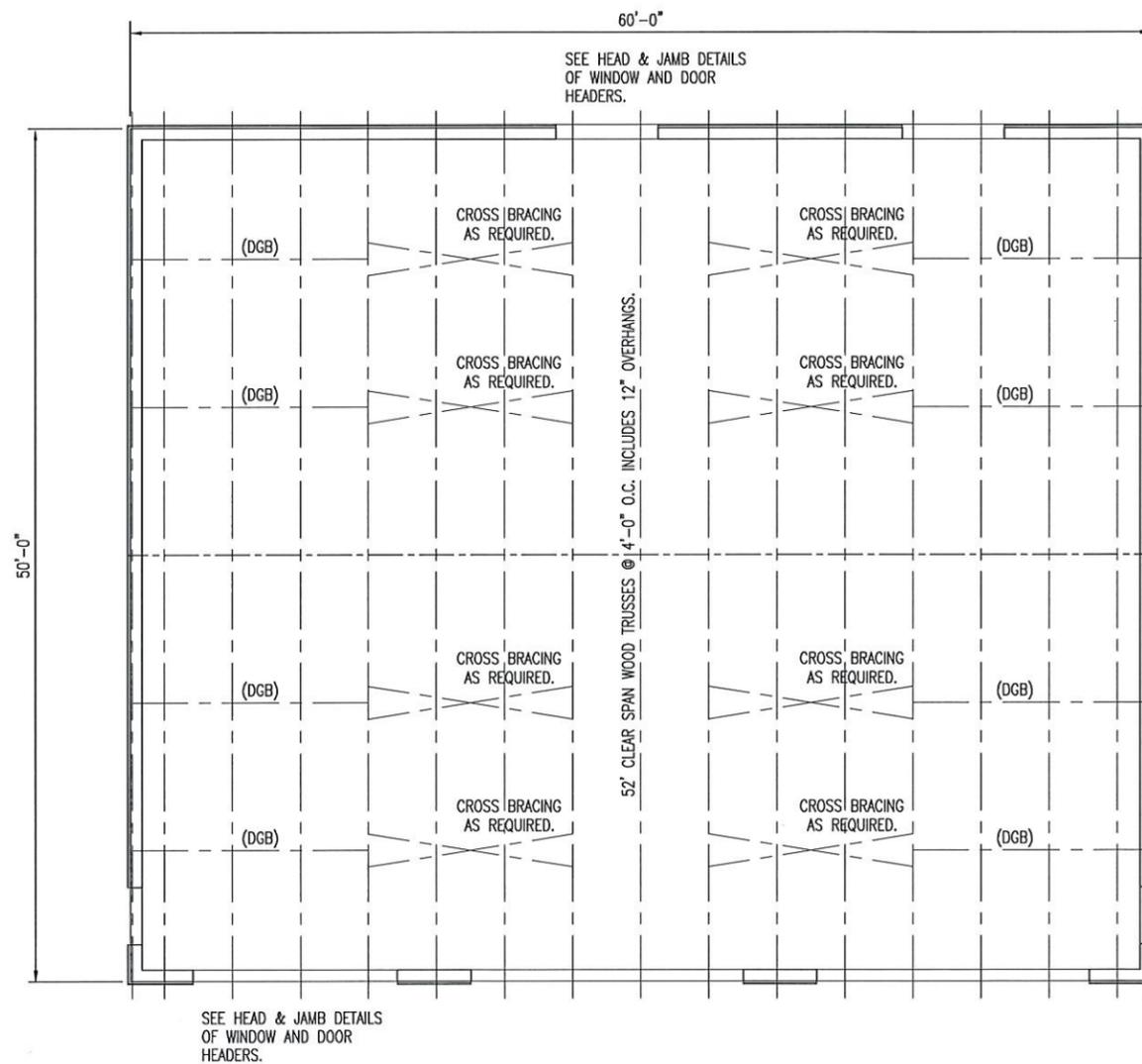


INTERIOR ELEVATIONS

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(DGB) DIAGONAL GABLE BRACING AS REQUIRED.

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
- ZONE 1, LATEST EDITION IBC
- 90 MPH, EXPOSURE B
- L/360
- 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.

A
15
ROOF FRAMING PLAN
SCALE: 3/32" = 1'-0"



ROOF FRAMING PLAN

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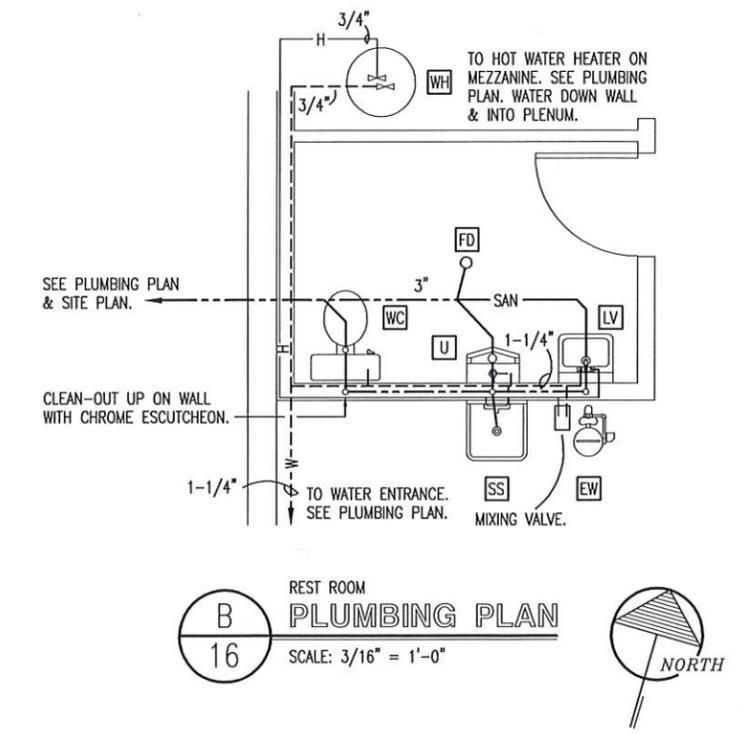
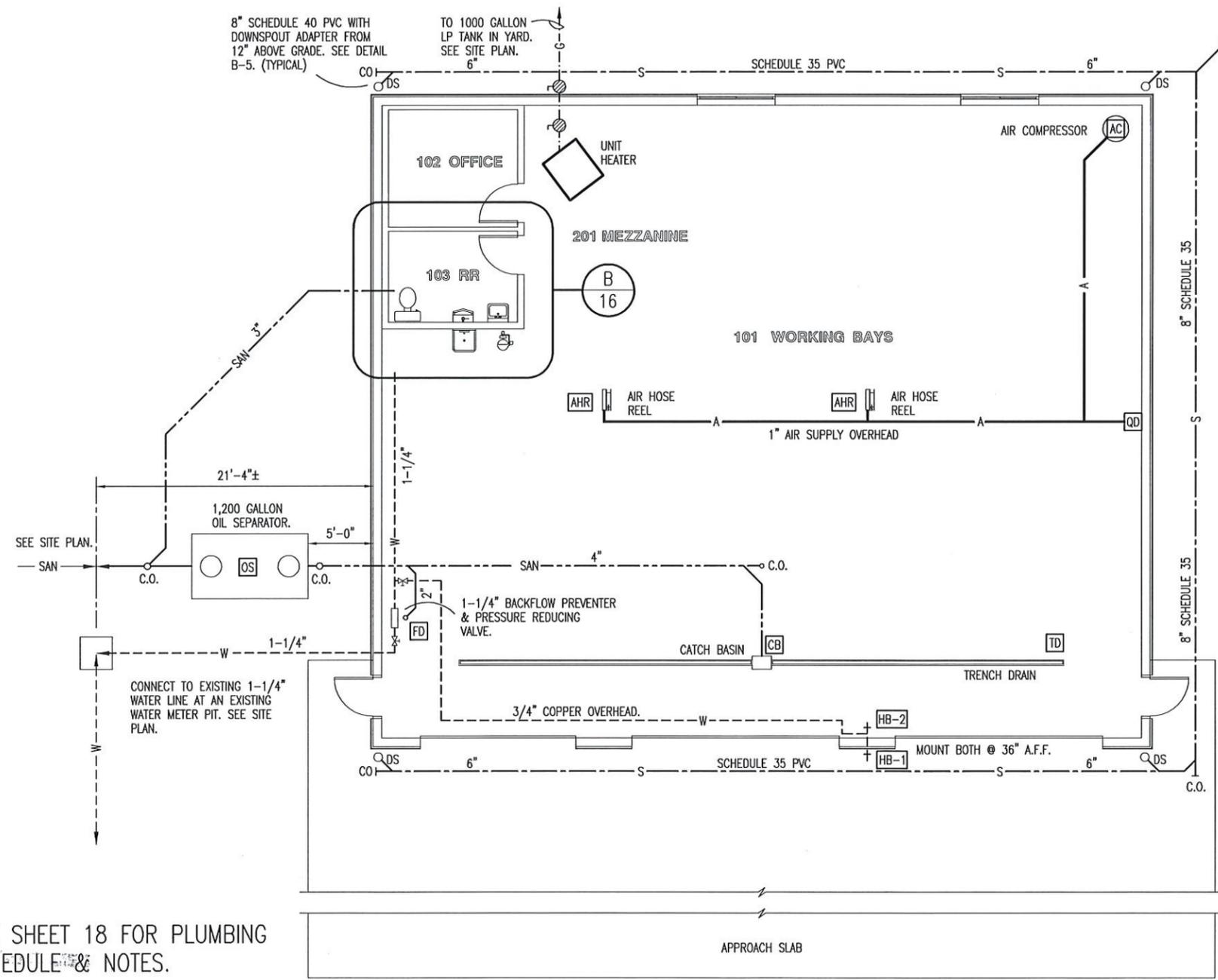
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LEGEND

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



A
16
PLUMBING PLAN
SCALE: 3/32" = 1'-0"
NORTH

SEE SHEET 18 FOR PLUMBING SCHEDULE & NOTES.

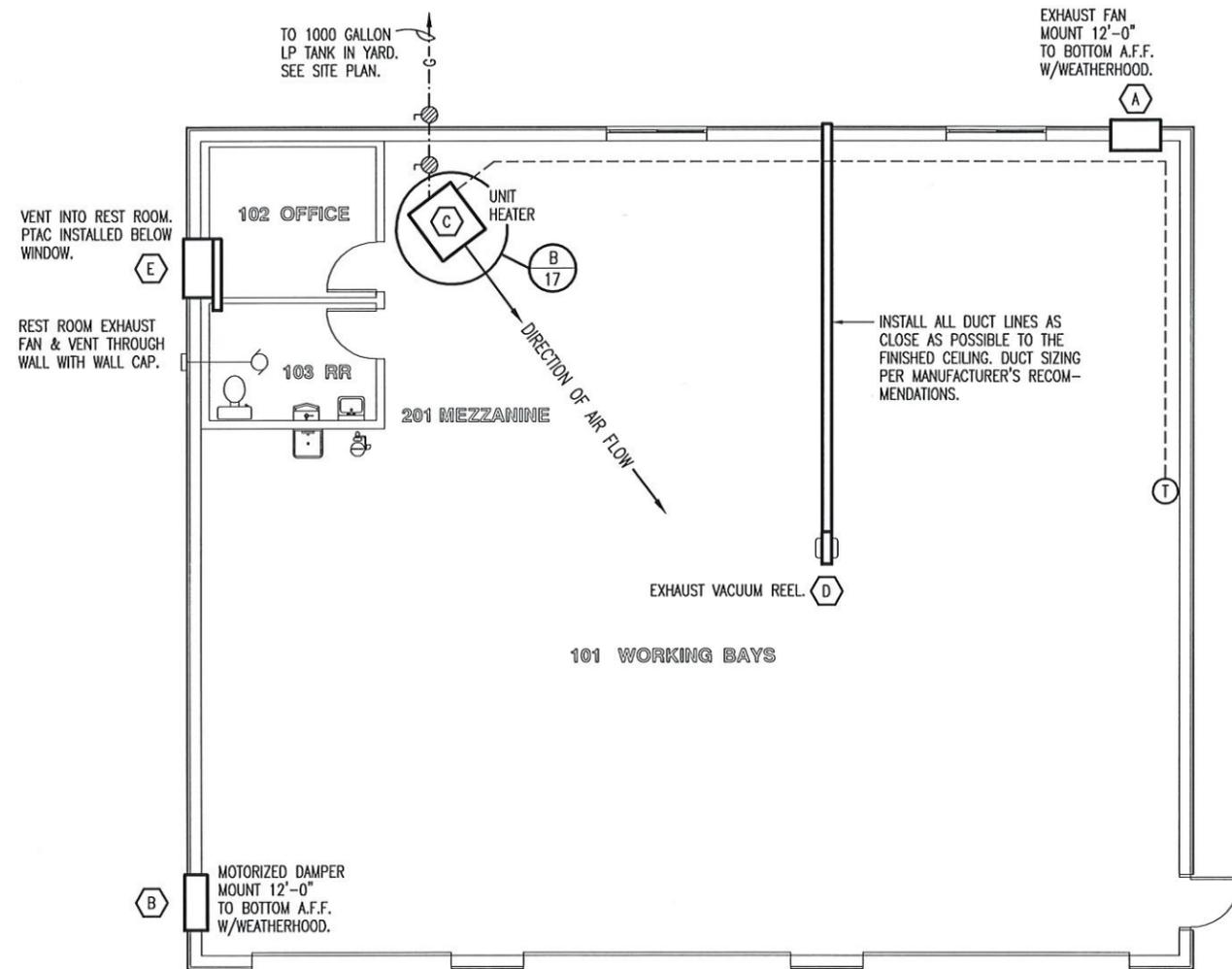
PLUMBING PLAN

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EXHAUST FAN MOUNT 12'-0" TO BOTTOM A.F.F. W/WEATHERHOOD.

TO 1000 GALLON LP TANK IN YARD. SEE SITE PLAN.

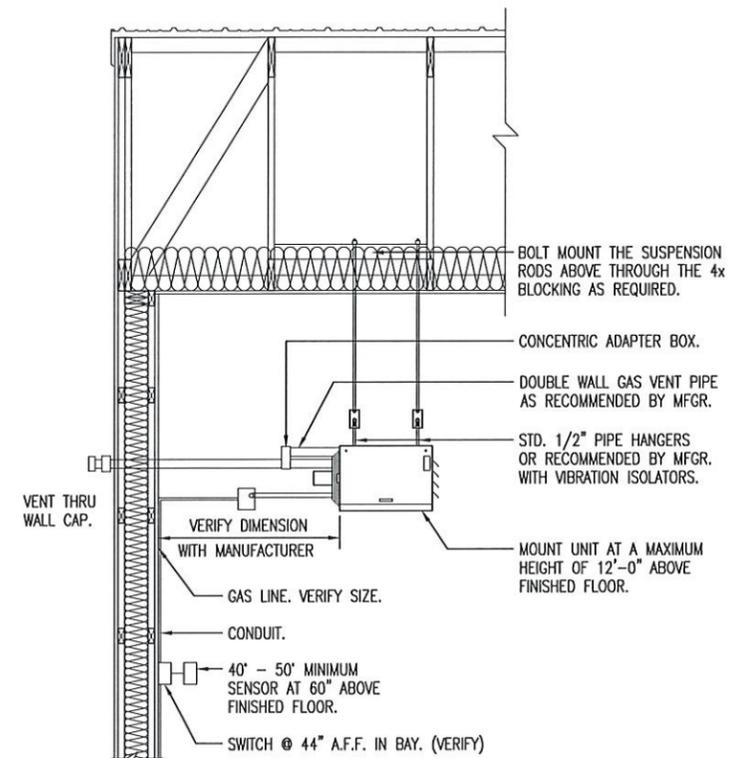
VENT INTO REST ROOM. PTAC INSTALLED BELOW WINDOW.

REST ROOM EXHAUST FAN & VENT THROUGH WALL WITH WALL CAP.

INSTALL ALL DUCT LINES AS CLOSE AS POSSIBLE TO THE FINISHED CEILING. DUCT SIZING PER MANUFACTURER'S RECOMMENDATIONS.

101 WORKING BAYS

MOTORIZED DAMPER MOUNT 12'-0" TO BOTTOM A.F.F. W/WEATHERHOOD.

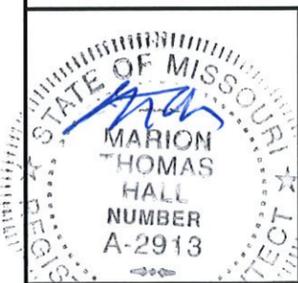


B UNIT HEATER INSTALLATION
17 NOT TO SCALE

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



SEE SHEET 7 FOR HVAC FIXTURE SCHEDULE.



MECHANICAL PLAN

MISSOURI DEPARTMENT OF TRANSPORTATION

DIVISION OF GENERAL SERVICES FACILITIES MANAGEMENT

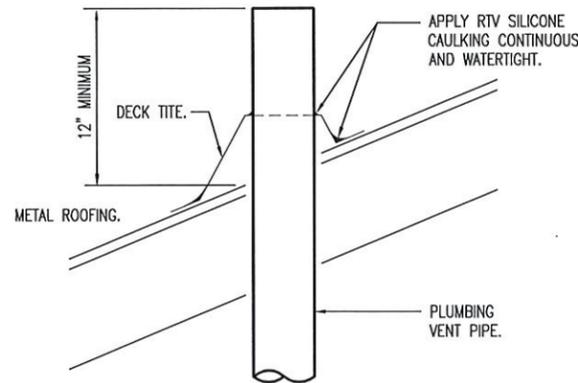
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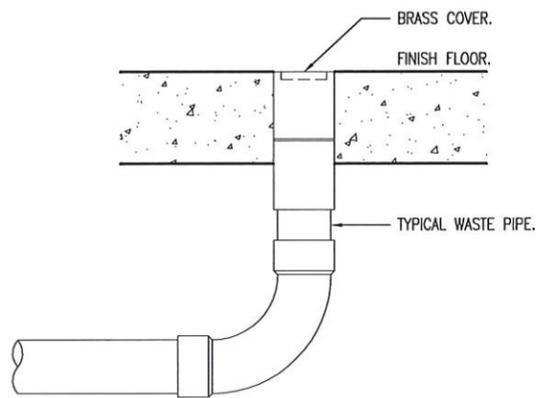
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VENT THROUGH ROOF DETAIL

SCALE: NONE



FLOOR CLEANOUT DETAIL

SCALE: NONE

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.
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. 140-002190. HEAVY DUTY PRECAST CONCRETE. H-20 LOADING, 8" CAST IRON FRAME, LID AND COLLAR. PH: (573)384-5855.

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.

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. VENT AS CLOSE AS POSSIBLE TO EXTERIOR WALLS.
- 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.
- CONTRACTOR TO PROVIDE 1-1/4" BACK FLOW PREVENTER AND A PRESSURE REDUCING VALVE IN 101 MECHANICS AS REQUIRED.
- PROVIDE BLOCKING TO ALL FIXTURES AS REQUIRED FOR A SECURE APPLICATION.

A
18

PLUMBING & MECHANICAL NOTES

SCALE: NONE



Plumbing & Mechanical Notes

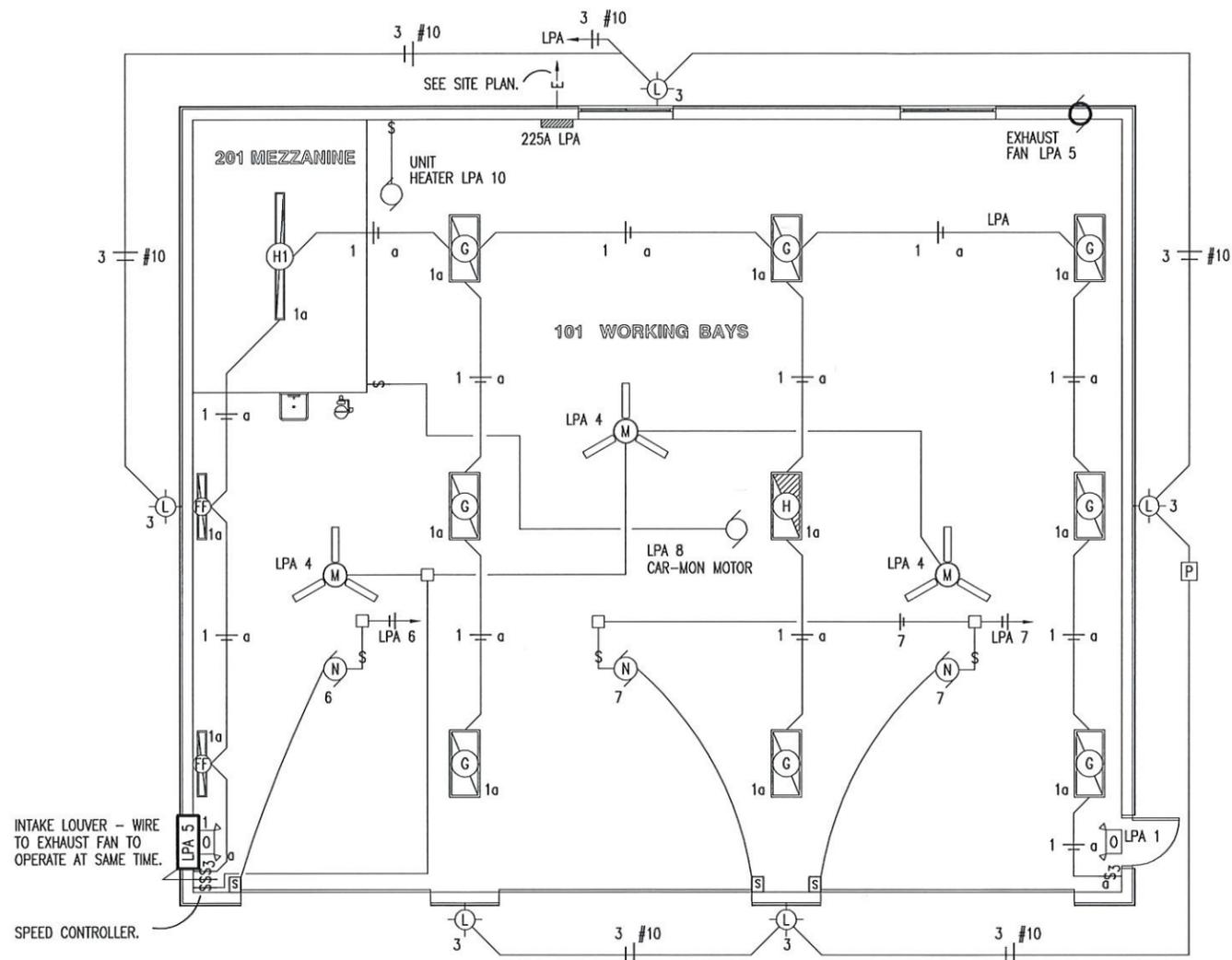
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B
19
FINISHED AREA
LIGHTING PLAN
SCALE: 3/32" = 1'-0"



SEE ELECTRICAL SCHEDULE
& NOTES SHEET 21.

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

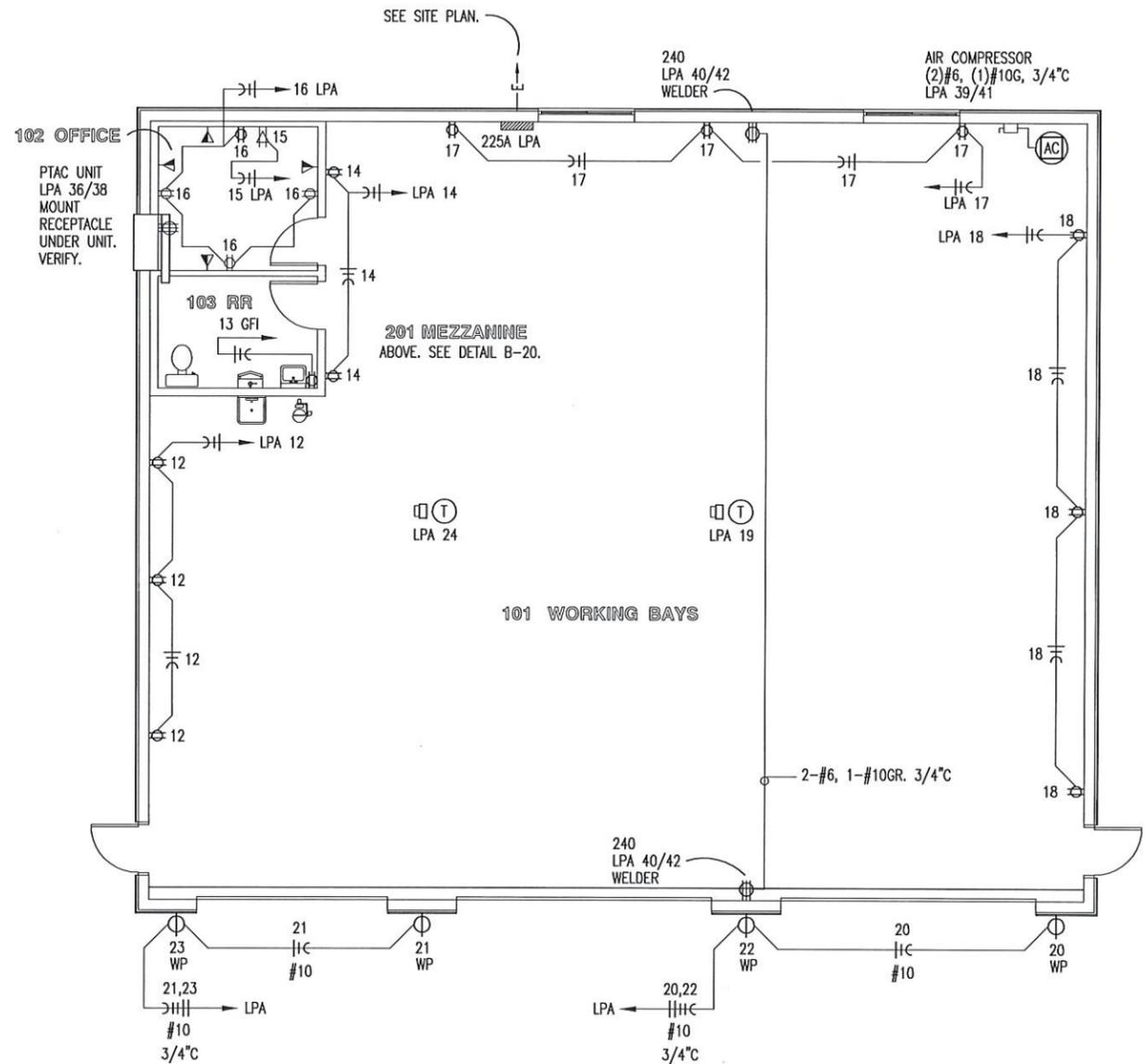


LIGHTING PLAN

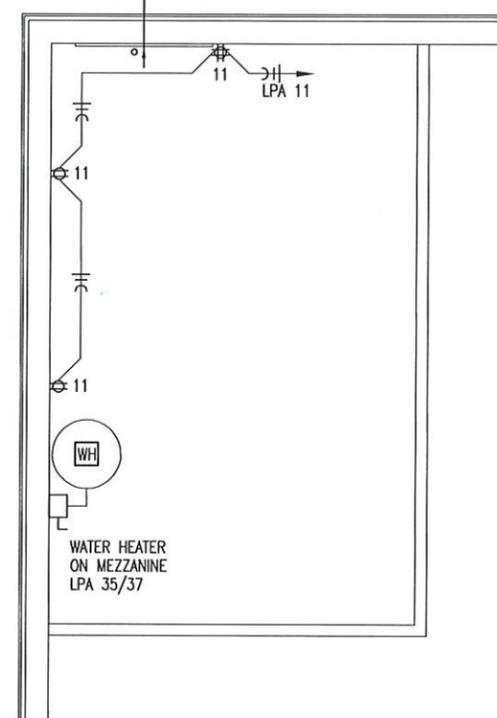
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CONTRACTOR TO MOUNT 4' x 4' AC PLYWOOD OVER PREFINISHED WALL PANEL. MOUNT 2" SCH. 40 PVC THROUGH MEZZANINE FLOOR TO BELOW I-JOISTS. RUN 1" PVC FROM DATA OUTLETS IN OFFICE TO 1" ABOVE ACOUSTIC CEILING TILE.



LEGEND

- \$ WP SINGLE POLE OR 3-WAY SWITCH, MOUNT IN FS BOX WITH HUBBELL HBL7420 COVER.
 - Φ WP DUPLEX RECEPTACLE MOUNTED IN FS BOX WITH HUBBELL HBL5221 COVER.
 - Φ WP SINGLE RECEPTACLE MOUNTED IN FS BOX WITH HUBBELL HBL7423 COVER.
 - \$ SINGLE POLE SWITCH, FLUSH MOUNTED IN FINISHED AREAS @ 48" A.F.F.
 - \$³ 3-WAY SWITCH, SURFACE MOUNTED IN UNFINISHED AREAS @ 48" A.F.F.
 - \$⁴ 4-WAY SWITCH, SURFACE MOUNTED IN FINISHED AREAS @ 48" A.F.F.
 - Φ DUPLEX RECEPTACLE FLUSH MOUNTED IN FINISHED OFFICE, REST ROOMS AND BREAK ROOM @ 18" A.F.F. TO BOTTOM OF OUTLET. DUPLEX RECEPTACLES IN WORK BAYS STORAGE, MEZZANINE AND EXTERIOR @ 48" A.F.F.
 - Φ WELDER RECEPTACLE (LEVITON #5374) SURFACE MOUNTED 48" A.F.F., MOUNT IN 4" SQUARE BOX WITH RAISED COVER.
 - NO FUSED DISCONNECT SWITCH.
 - Φ 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.
 - Ψ 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.

B
20
POWER PLAN
MEZZANINE
SCALE: 3/16" = 1'-0"
NORTH

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

SEE ELECTRICAL SCHEDULE & NOTES SHEET 21.



POWER PLAN

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ELECTRIC SCHEDULE

MANUF.	MODEL	#	LAMPS TYPE	W	MNT	REMARKS
WILLIAMS 	50G-S24-LED*UT 50/B35-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 #5NPZ7				CLG	80 CFM CEILING MOUNT BATHROOM VENTILATOR. BROAN WALL CAP, GRAINGER #4C388.
WILLIAMS 	GL-4-L200/B40-WG11-DRV-UNV		LED	174	CLG	14-3/16" x 48" DIE-FORMED ALUMINUM HOUSING WITH WIRE GUARD.
WILLIAMS 	GL-4-L200/B40-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.
WILLIAMS 	75L-8-L40-DMA-WG-7511-LED		LED	111	CLG	3-5/16" x 96", 22-GAUGE DIE-FORMED CRS HOUSING WITH WIRE GUARD.
LITHONIA 	TWR1LED 1 40K MVOLT		LED	33	WALL	EXTERIOR, SURFACE MOUNT LIGHT FIXTURE, WITH ALUMINUM HOUSING. PRISMATIC GLASS LENS.
DAYTON 	GRAINGER #5NPZ3				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 	LHQM 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" NQOD OR EQUAL W/ NEUTRAL BUS & GROUNDING BUS CIRCUIT BREAKERS BOLT-IN 10000 AIC				CONNECTED LOAD A PHASE 19574 VA B PHASE 21067 VA TOTAL 40641 VA 169 A		
CIR	SERVICE	VA	BKR		BKR	VA	SERVICE	CIR
1	101 LIGHTS	1769	20A1P	A	20A1P	136	102,103 LIGHTS & FAN	2
3	EXTERIOR LIGHTS	165	20A1P	B	20A1P	234	CEILING FANS	4
5	EXHAUST FAN & DAMPER	813	20A1P	A	20A1P	1288	GARAGE DOOR OPENER	6
7	GARAGE DOOR OPENERS	3264	35A1P	B	20A1P	1656	CARBON MONOXIDE	8
9	SPARE	-	20A1P	A	20A1P	900	GAS FIRED UNIT HEATER	10
11	RECEPTACLES ON MEZZANINE	720	20A1P	B	20A1P	540	RECEPTACLES	12
13	RR GFI RECEPTACLE	180	20A1P	A	20A1P	180	RECEPTACLES	14
15	102 DEDICATED RECEPTACLE	180	20A1P	B	20A1P	720	102 OFFICE RECEPTACLES	16
17	RECEPTACLES	540	20A1P	A	20A1P	540	RECEPTACLES	18
19	CORD REEL	180	20A1P	B	20A1P	1000	EXTERIOR - RECEPTACLE	20
21	EXTERIOR - RECEPTACLE	1000	20A1P	A	20A1P	1000	EXTERIOR - RECEPTACLE	22
23	EXTERIOR - RECEPTACLE	1000	20A1P	B	20A1P	180	CORD REEL	24
25				A				26
27				B				28
29				A				30
31				B				32
33				A				34
35	WATER HEATER	2600	30A2P	B	20A2P	768	102 - PTAC HEAT PUMP	36
37		2600		A		768		38
39	AIR COMPRESSOR	3360	30A2P	B	50A2P	4500	101 WELDER	40
41		3360		A		4500		42

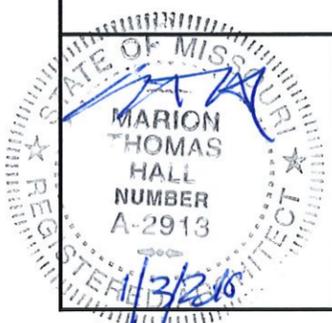
● CIRCUIT BREAKER SHALL BE GFI RATED

ELECTRICAL NOTES

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- 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 WORKING BAY 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.
- \$³ 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
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

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

DESIGN BY: LARRY CARVER
DATE: 12-23-16

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