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MISSOURI DEPARTMENT OF TRANSPORTATION

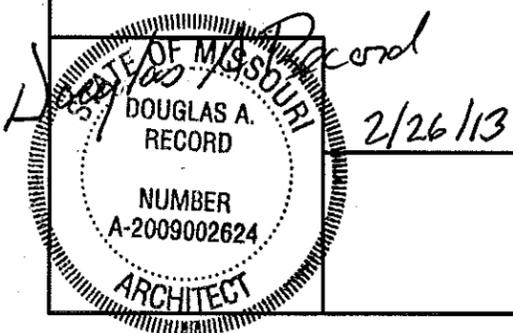
NEW MAINTENANCE COMPLEX SKILES MAINTENANCE BUILDING

CODE REQUIREMENTS

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

CLAY COUNTY

KANSAS CITY DISTRICT - KANSAS CITY, MO 64161
 3800 North Skiles Avenue

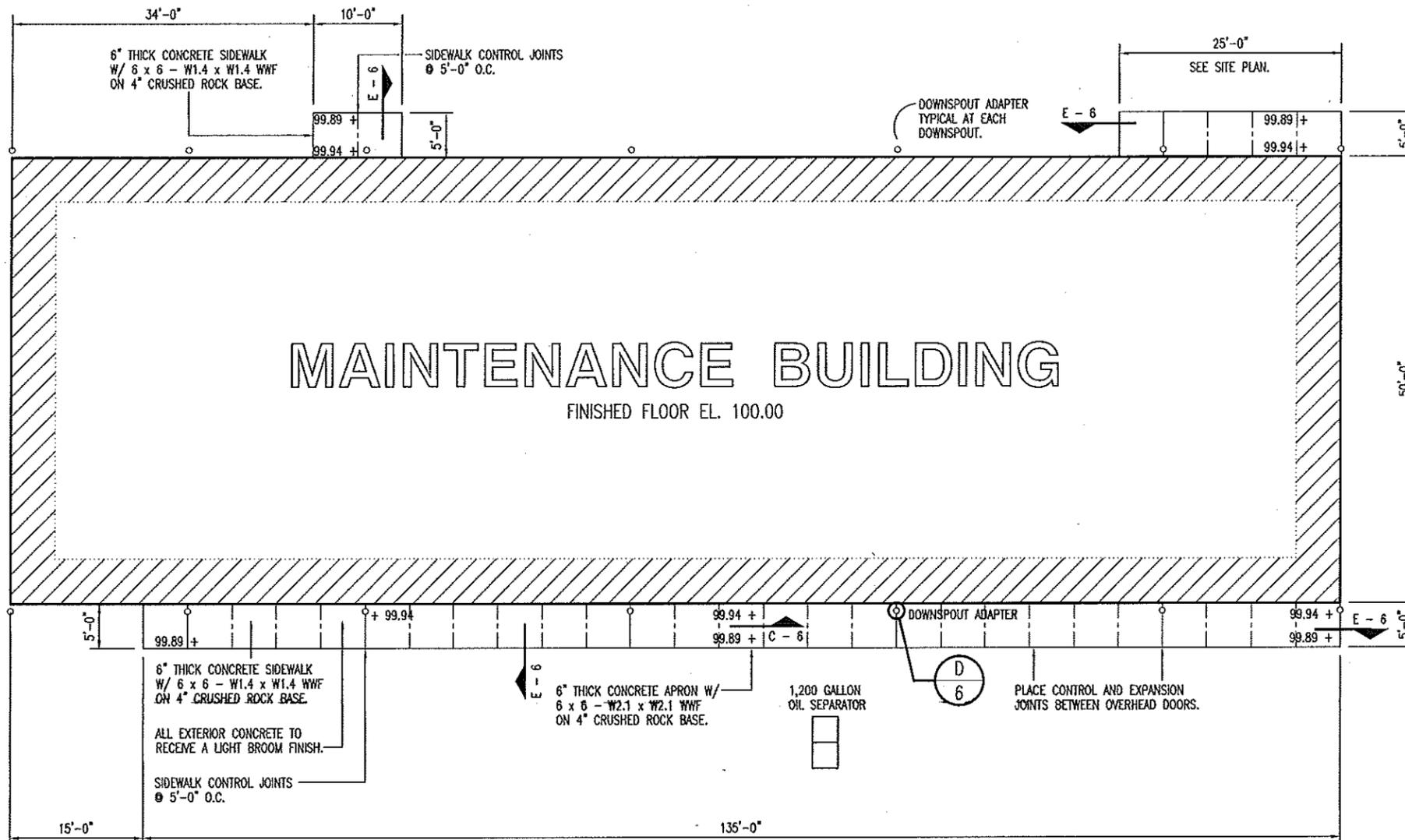


COVER SHEET

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

NEW MAINTENANCE COMPLEX
Kansas City District - Clay County, Kansas City, MO 64161
3800 North Skiles Avenue

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 Sheet
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CONTRACTOR NOTE:
 CONNECT ALL UTILITIES AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM FOR THE NEW BUILDING.
 ALL UNUSED EXCAVATED MATERIAL CAN BE STOCKPILED ON-SITE. LOCATION BY OWNER.

A PLOT PLAN
2 SCALE: 1/16" = 1'-0"



Handwritten: 2/26/13
 MISSOURI DEPARTMENT OF TRANSPORTATION
 DOUGLAS A. RECORD
 ARCHITECT
 NUMBER A-2009002624

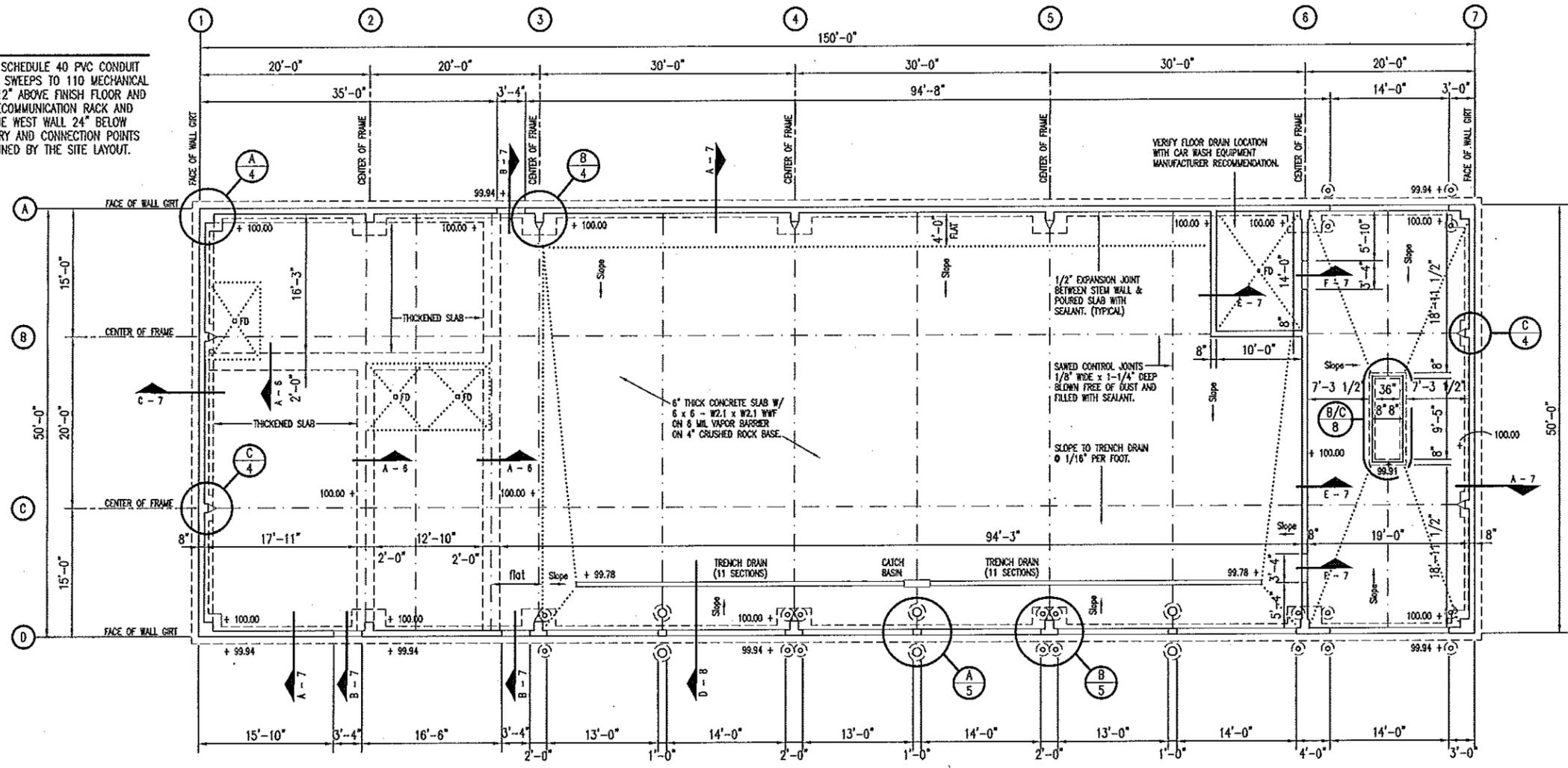
PLOT PLAN

MISSOURI DEPARTMENT OF TRANSPORTATION
 DIVISION OF GENERAL SERVICES
 FACILITIES MANAGEMENT

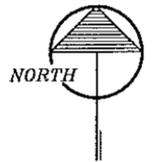
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NOTE:
 PROVIDE (1) 4" SCHEDULE 40 PVC CONDUIT WITH FIBEROPTIC SWEEPS TO 110 MECHANICAL ROOM. EXTEND 12" ABOVE FINISH FLOOR AND CAP BELOW TELECOMMUNICATION RACK AND 10'-0" FROM THE WEST WALL 24" BELOW GRADE. THE ENTRY AND CONNECTION POINTS WILL BE DETERMINED BY THE SITE LAYOUT.



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



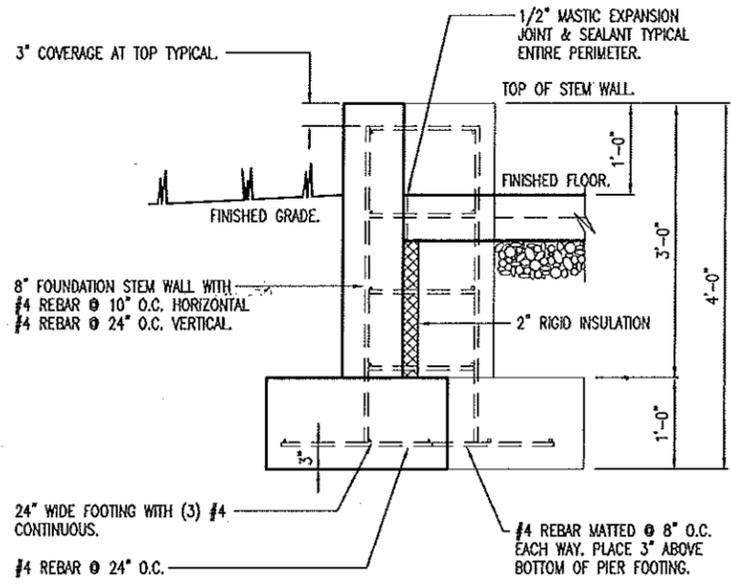
STATE OF MISSOURI
 DOUGLAS A. RECORD
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FOUNDATION PLAN

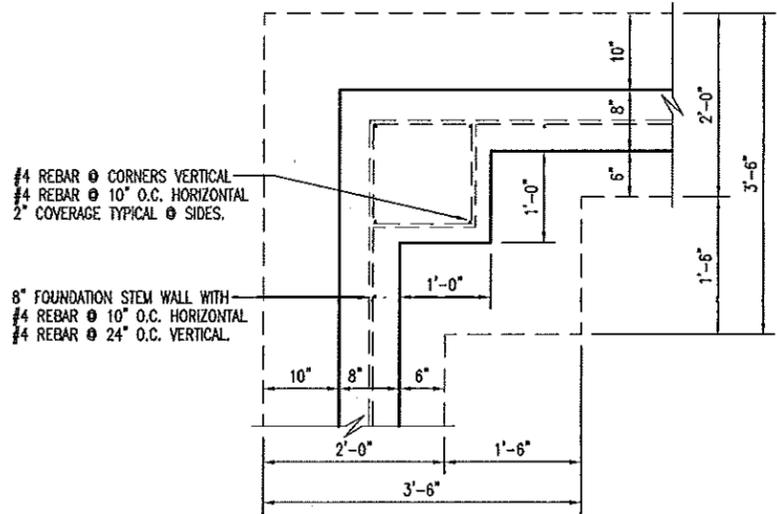
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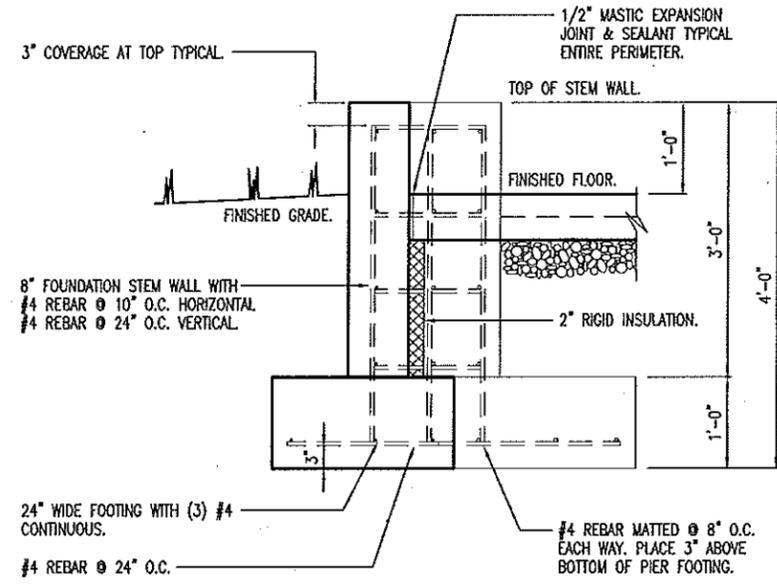


ELEVATION

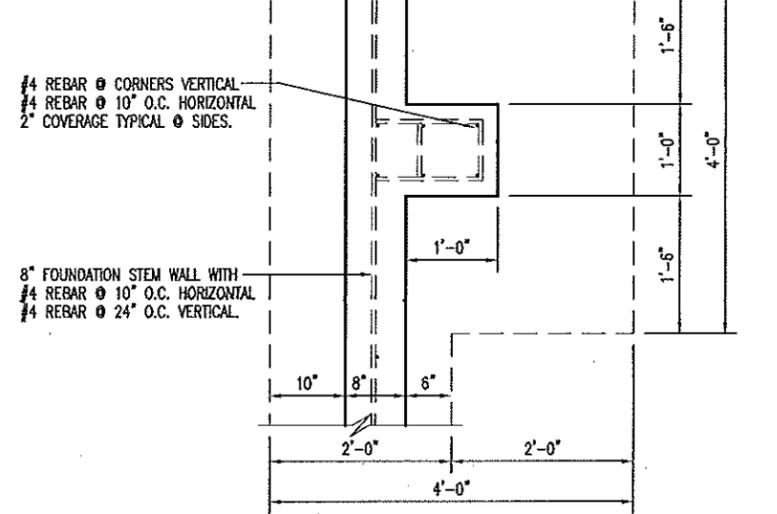


PLAN VIEW

A CORNER COLUMN FOOTING
SCALE: 1/2" = 1'-0"

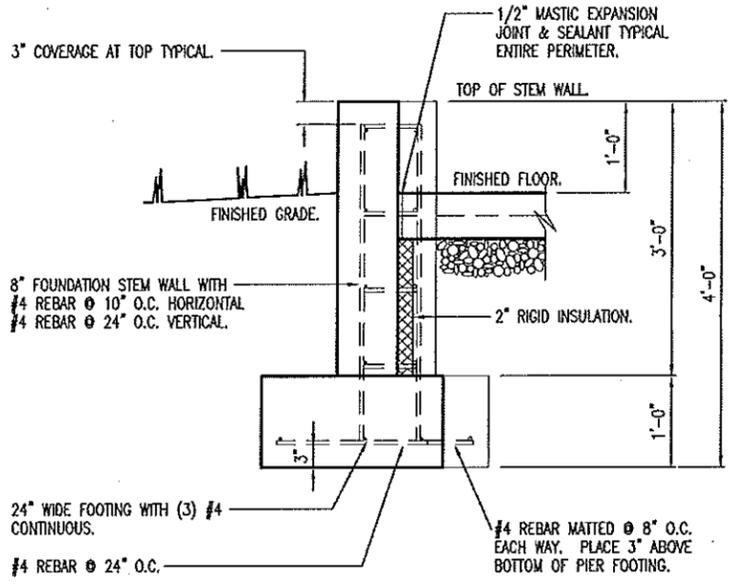


ELEVATION

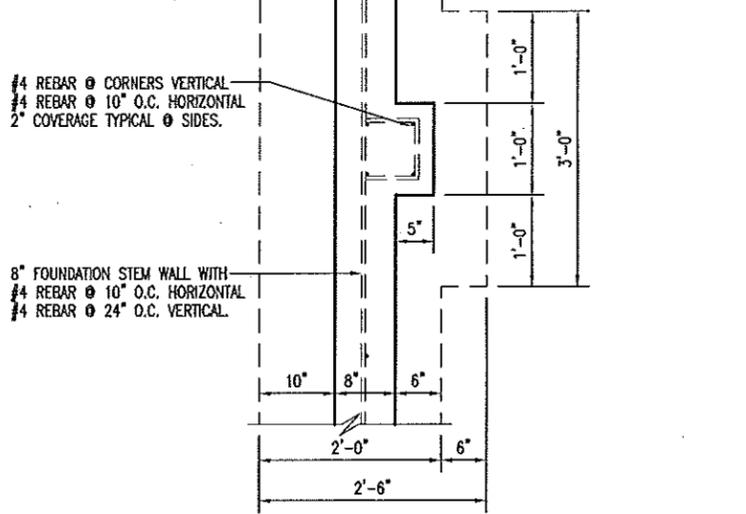


PLAN VIEW

B SIDEWALL COLUMN FOOTING
SCALE: 1/2" = 1'-0"

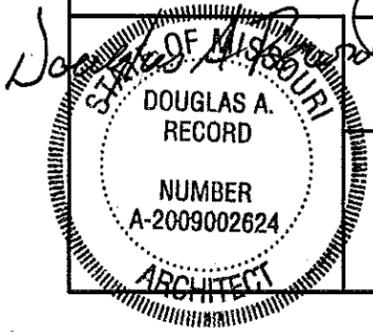


ELEVATION



PLAN VIEW

C ENDWALL COLUMN FOOTING
SCALE: 1/2" = 1'-0"

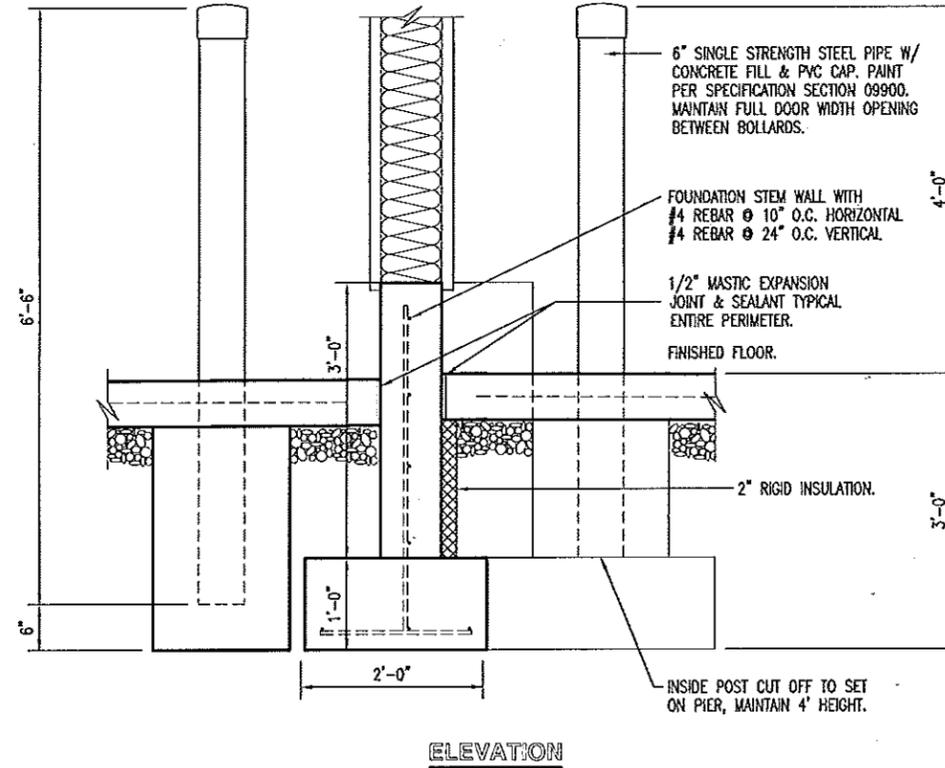
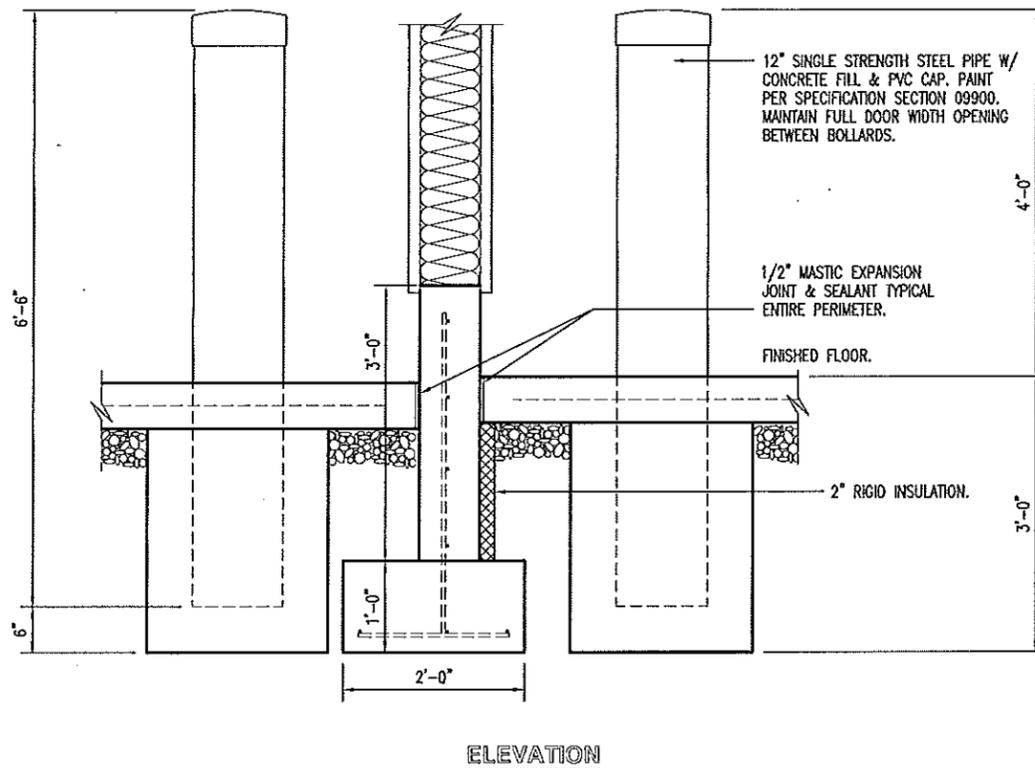
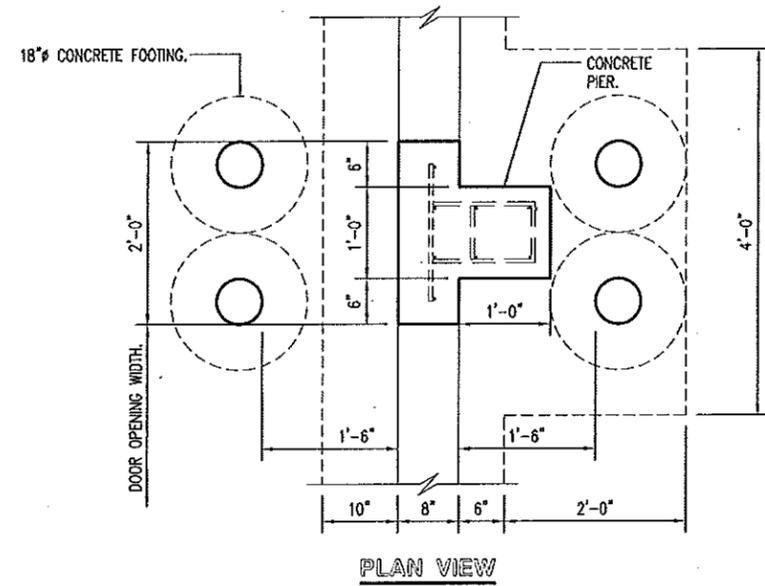
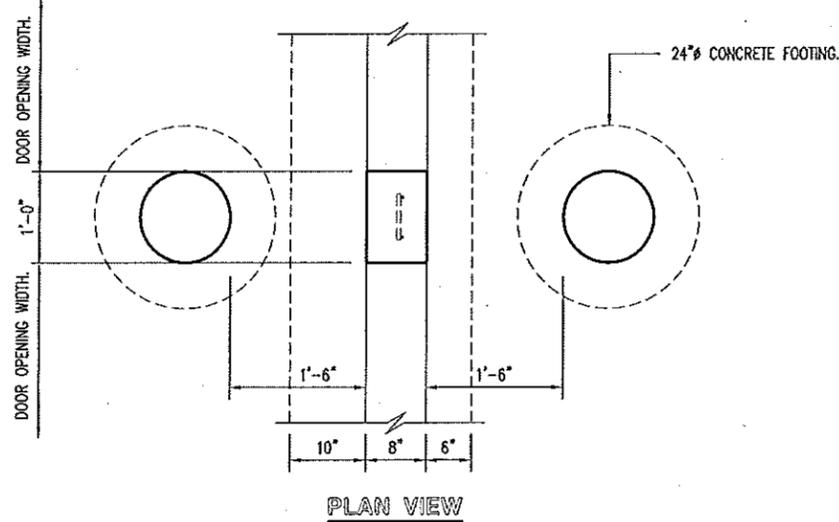


FOUNDATION DETAILS

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DIVISION OF GENERAL SERVICES FACILITIES MANAGEMENT

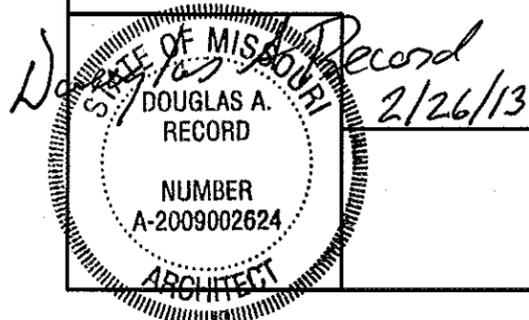
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A BOLLARD @ FOOTING DETAIL
5 SCALE: 1/2" = 1'-0"

B BOLLARDS @ PIER DETAIL
5 SCALE: 1/2" = 1'-0"

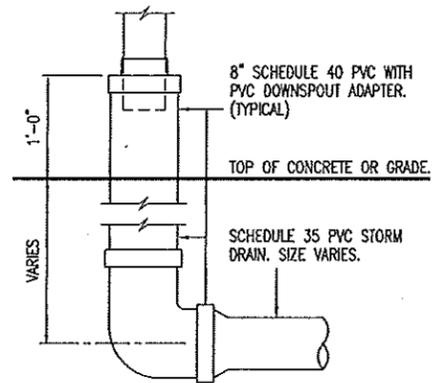


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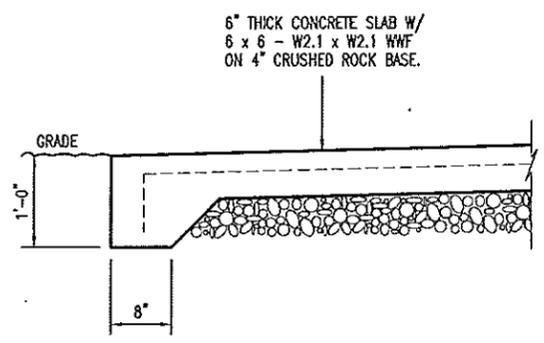
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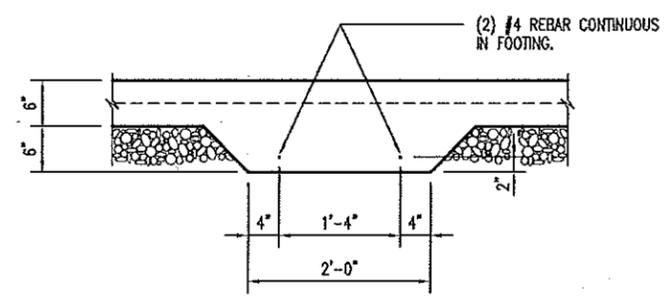
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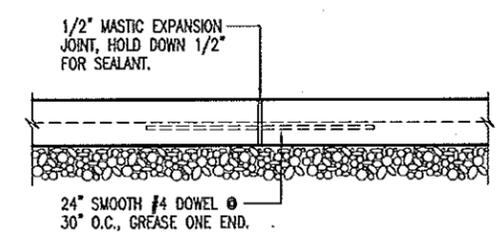
D DOWNSPOUT ADAPTER
 6 SCALE: 1/2" = 1'-0"



E SIDEWALK SECTION
 6 SCALE: 1/2" = 1'-0"



A INTERIOR BEARING FOOTING
 6 SCALE: 1/2" = 1'-0"



C EXPANSION JOINT
 6 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 WITH 4" SLUMP.
5. CONCRETE EXPOSED TO THE EXTERIOR SHALL RECEIVE AIR ENTRAINMENT 6% +/- 2%.
6. FOUNDATION BEAMS AND FOOTINGS SHALL BEAR A MINIMUM OF 12 INCHES INTO UNDISTURBED SOIL AND 36 INCHES MINIMUM BELOW FINISH GRADE.
7. DEFORMED STEEL REINFORCING BARS SHALL BE: #4 AND LARGER, ASTM A615 GRADE 60.
8. PROVIDE CORNER REINFORCING BARS WITH 12" MINIMUM LAP EQUAL IN SIZE AND GRADE TO CONNECTING BARS.
9. EXTERIOR CONCRETE FLATWORK SHALL HAVE A LIGHT BROOM FINISH.
10. COORDINATE WORK OF OTHER TRADES REQUIRED TO BE INSTALLED IN, UNDER, OR THROUGH CONCRETE PRIOR TO PLACEMENT OF CONCRETE. INSTALL ALL ANCHORAGES AND SLEEVES REQUIRED FOR THE INSTALLATION OF WORK BY OTHER TRADES.
11. ENTIRE PERIMETER OF BUILDING TO RECEIVE 2" POLYISOCYANURATE RIGID INSULATION BOARD.
12. SAWED CONTROL JOINTS SHALL BE CLEANED FREE OF ALL DEBRIS AND FILLED WITH SEALANT. SEE SECTION 07900.
13. ALL EXPOSED INTERIOR CONCRETE FLOORS SHALL RECEIVE A CURING/SEALING FINISH PER SPECIFICATION SECTION 03346.
14. COPPER PIPING RUN THROUGH CONCRETE WORK SHALL BE RUN THROUGH PVC SLEEVES.
15. CONCRETE COLUMN PIER DIMENSIONS MAY VARY PER BUILDING MANUFACTURER. CONTRACTOR MUST INCLUDE IN HIS BID ALL MATERIALS AND LABOR DUE TO ANY VARIATION FROM DRAWINGS.
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.
17. SEE SPECIFICATION SECTION 03300 CONCRETE FOR ADDITIONAL INFORMATION.

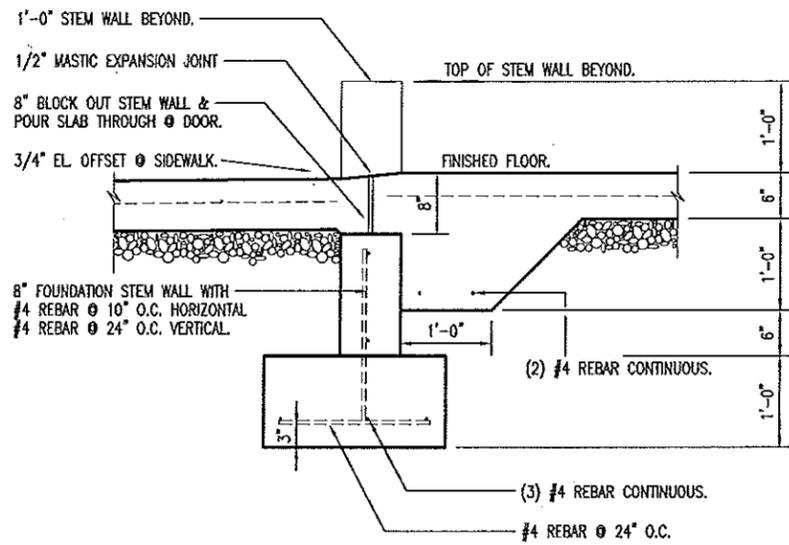
STATE OF MISSOURI
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FOUNDATION DETAILS

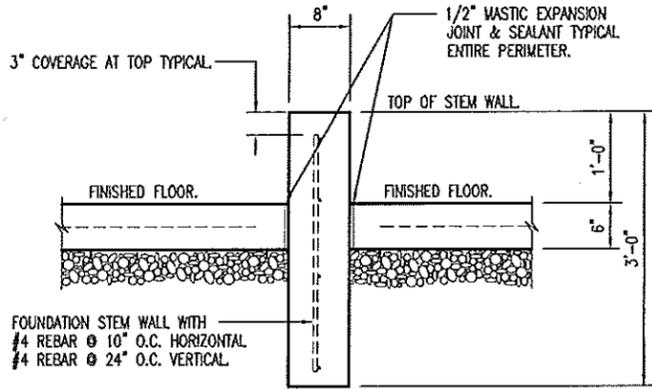
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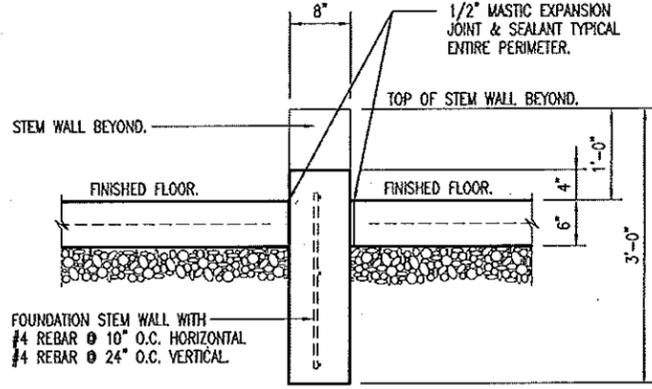
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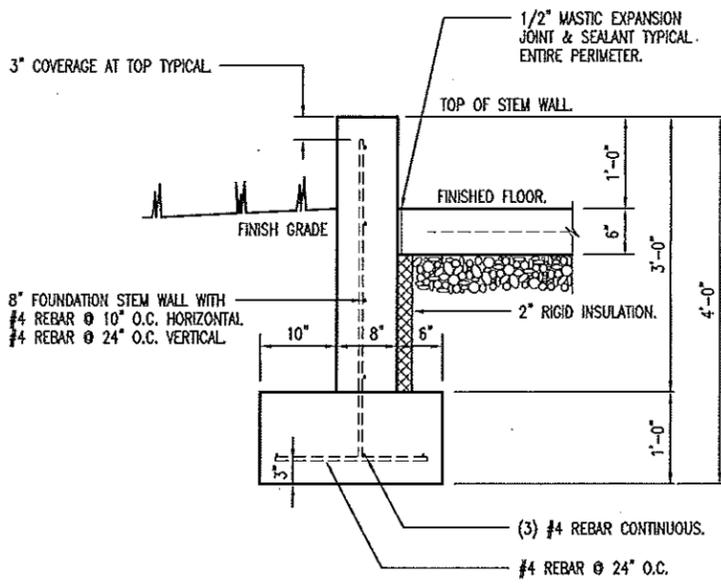
D EXTERIOR STEM WALL
7 SCALE: 1/2" = 1'-0"



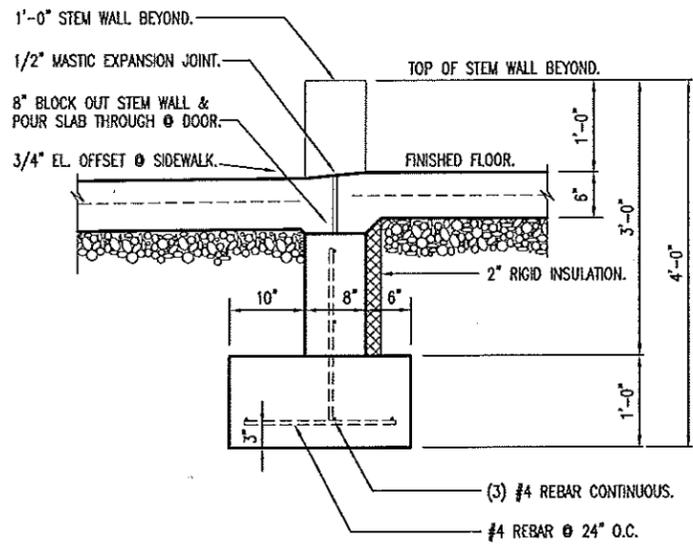
E INTERIOR STEM WALL
7 SCALE: 1/2" = 1'-0"



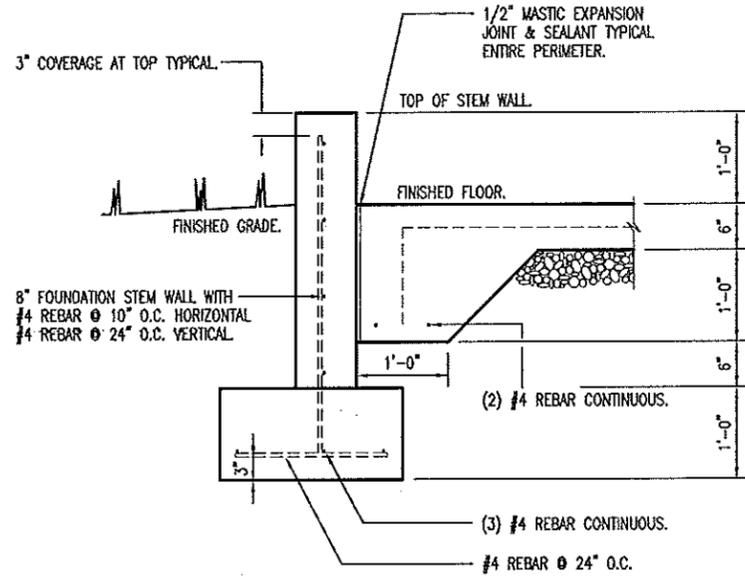
F INTERIOR STEM WALL @ DOOR
7 SCALE: 1/2" = 1'-0"



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



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



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

STATE OF MISSOURI
DOUGLAS A. RECORD
NUMBER A-2009002624
ARCHITECT
2/26/13

FOUNDATION DETAILS

MISSOURI DEPARTMENT OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

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SLOPE FLOOR @ 1/16" PER FOOT TO PIT DRAIN.

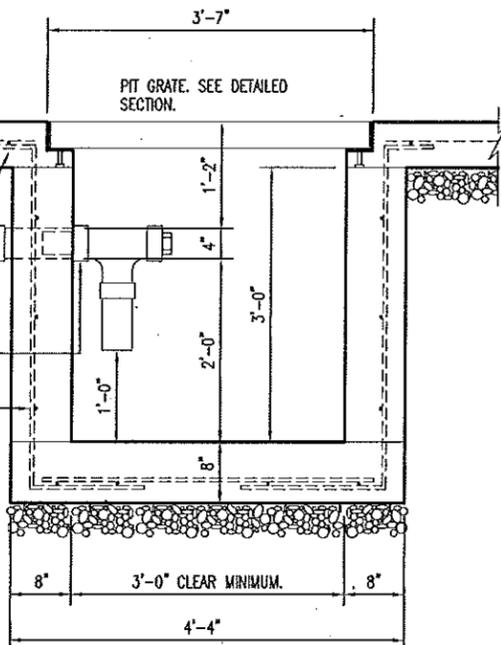
BRASS CLEAN-OUT

PIT GRATE. SEE DETAILED SECTION.

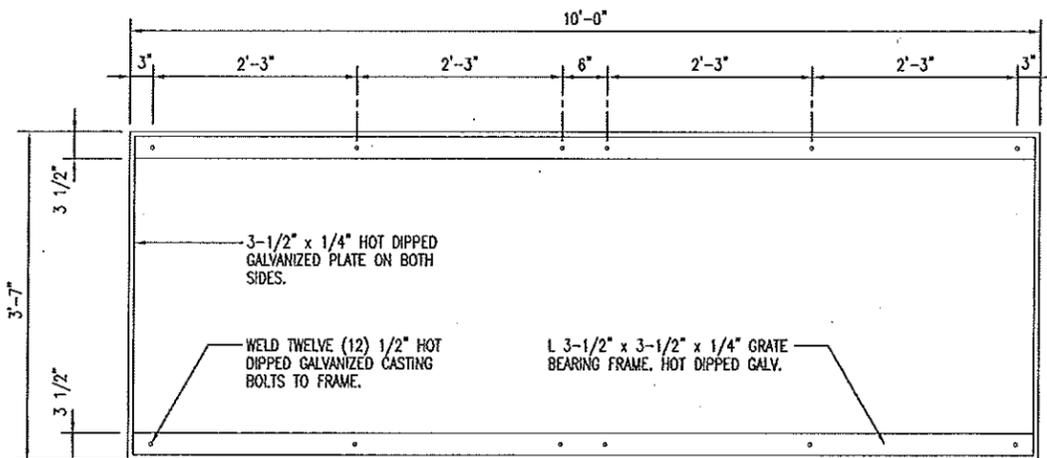
#4 REBAR AS SHOWN.

PROVIDE INTERIOR PIPE SLEEVE SO THIS TRAP CAN BE REMOVED.

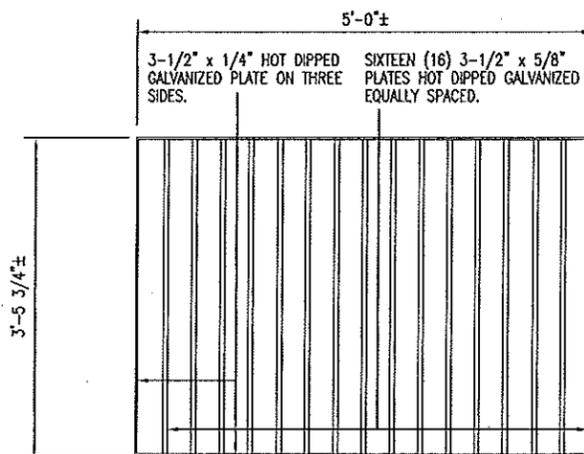
#4 REBAR @ 12" O.C. EACH WAY TYPICAL AROUND ENTIRE PIT.



B
8
PIT DRAIN
SCALE: 1/2" = 1'-0"



BEARING FRAME PLAN



PROVIDE TWO (2) GRATE PLAN

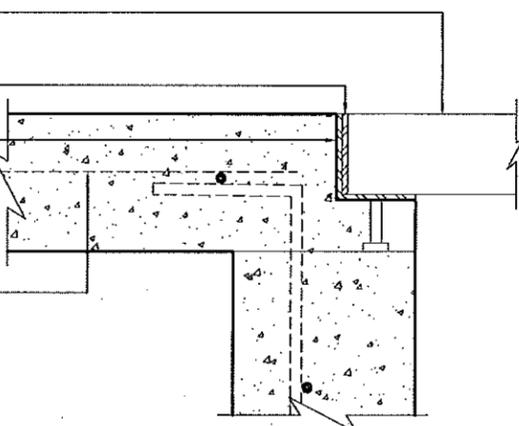
C
8
GRATE AND FRAME DETAIL
SCALE: 1/2" = 1'-0"

3-1/2" x 5/8" GRATE STOCK HOT DIPPED GALVANIZED.

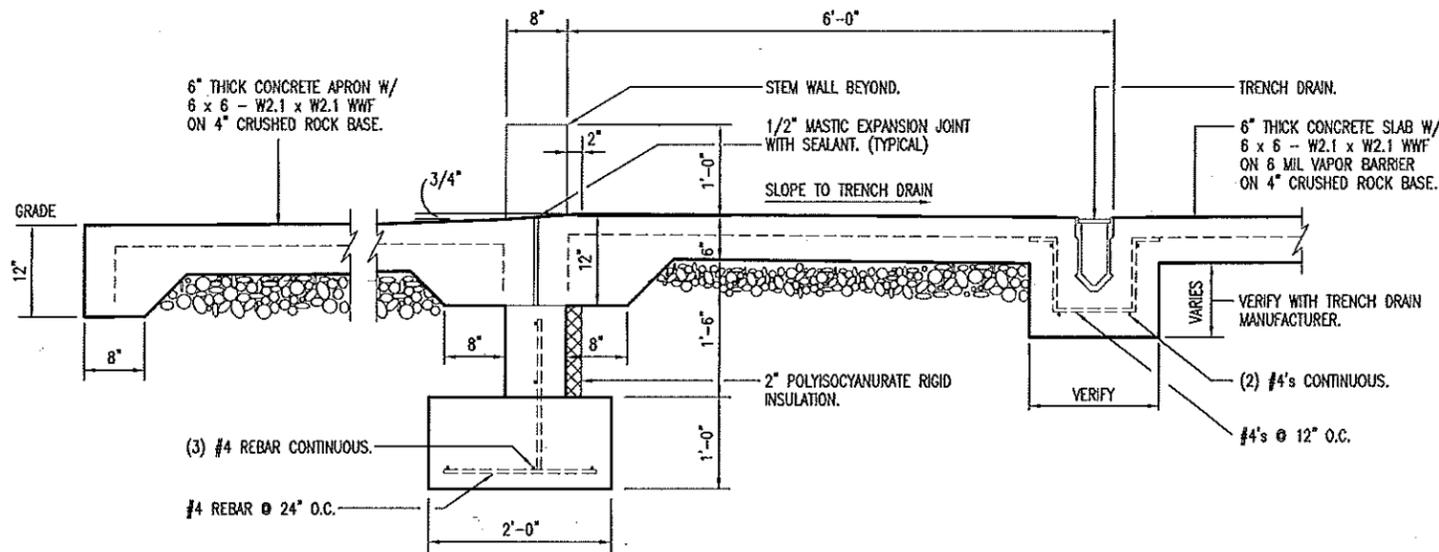
3-1/2" x 1/4" GRATE STOCK HOT DIPPED GALVANIZED.

L 3-1/2" x 3-1/2" x 1/4" GRATE BEARING FRAME CAST INTO CONCRETE. HOT DIPPED GALVANIZED, WELD ON CASTING BOLTS (6) EACH SIDE.

6 x 6 - W2.1 x W2.1 WWF.

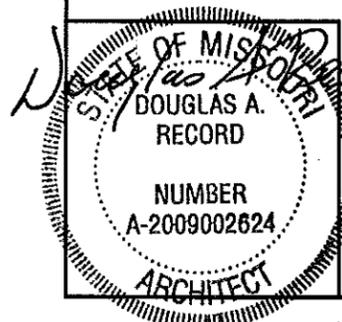


A
8
GRATE SECTION
SCALE: 1-1/2" = 1'-0"



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

D
8
APPROACH APRON
SCALE: 1/2" = 1'-0"

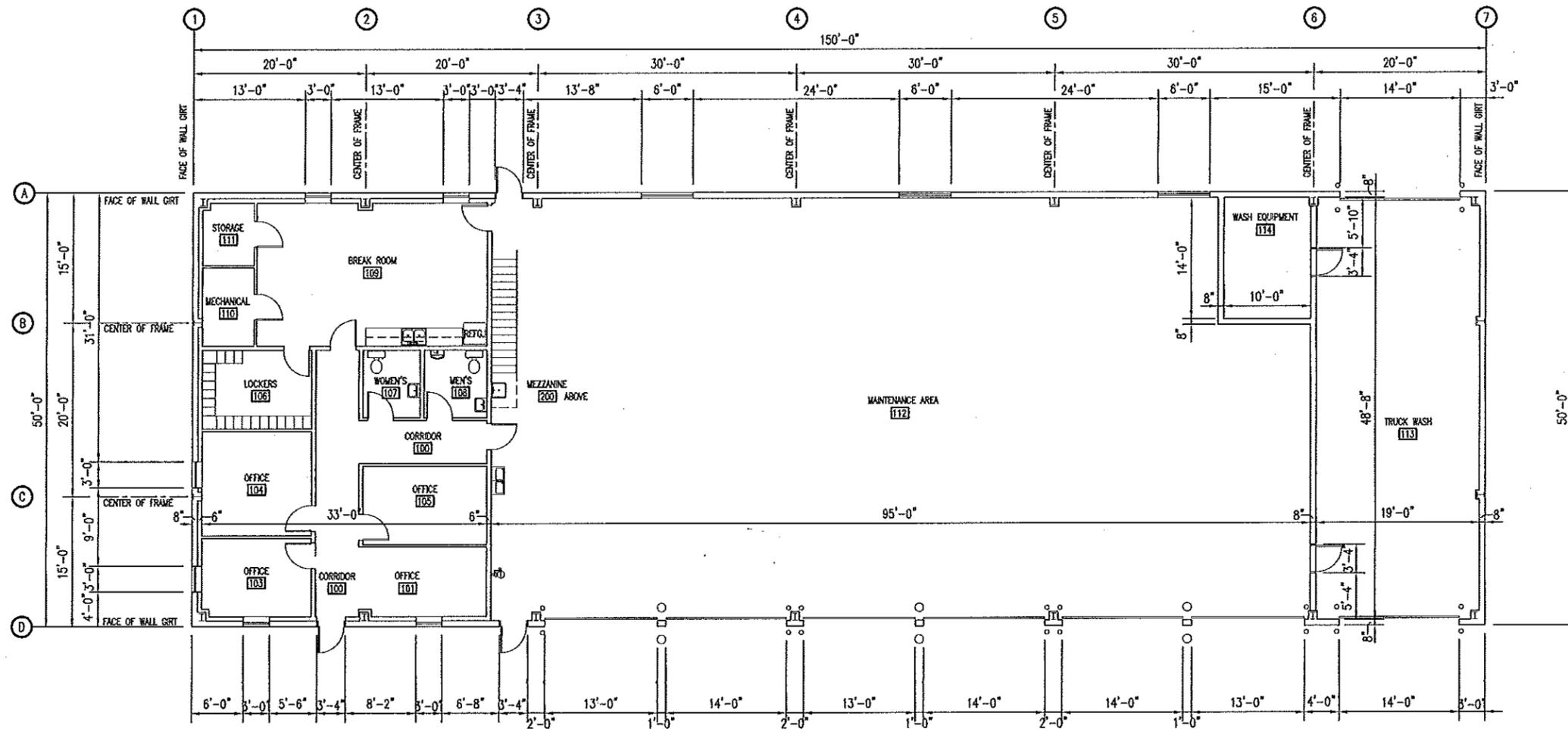


FOUNDATION DETAILS

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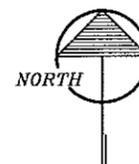
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SEE OFFICE DIMENSION PLAN, A-10.

A
9 DIMENSIONAL FLOOR PLAN
SCALE: 1/16" = 1'-0"



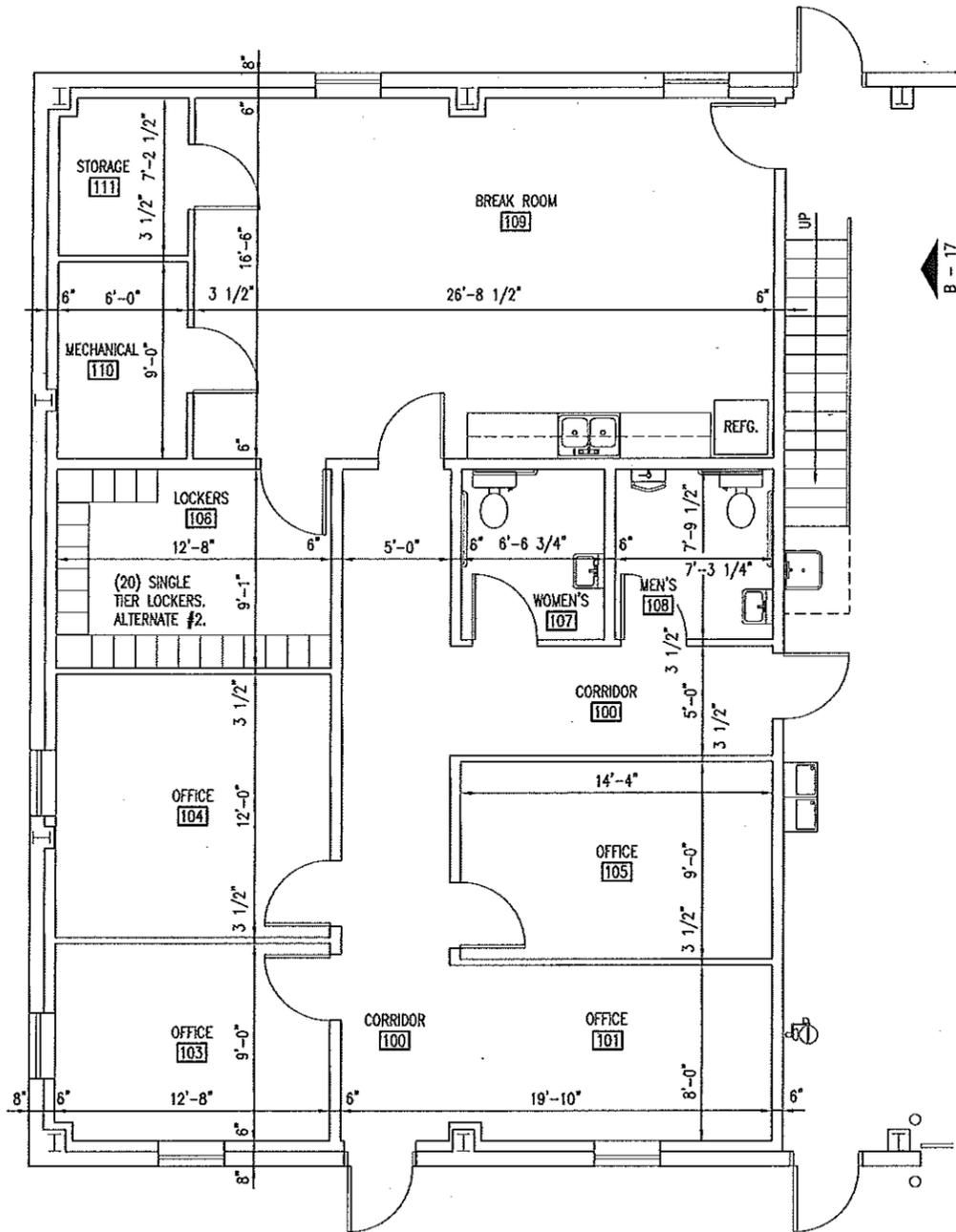
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DIMENSIONAL FLOOR PLAN

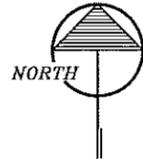
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A
10
OFFICE DIMENSIONAL PLAN
SCALE: 1/8" = 1'-0"



NOTE:

CONTRACTOR TO ENSURE ALL LOAD BEARING WALLS BEAR ON THICKENED SLAB. SEE DETAIL A-6, C-7 & D-7.

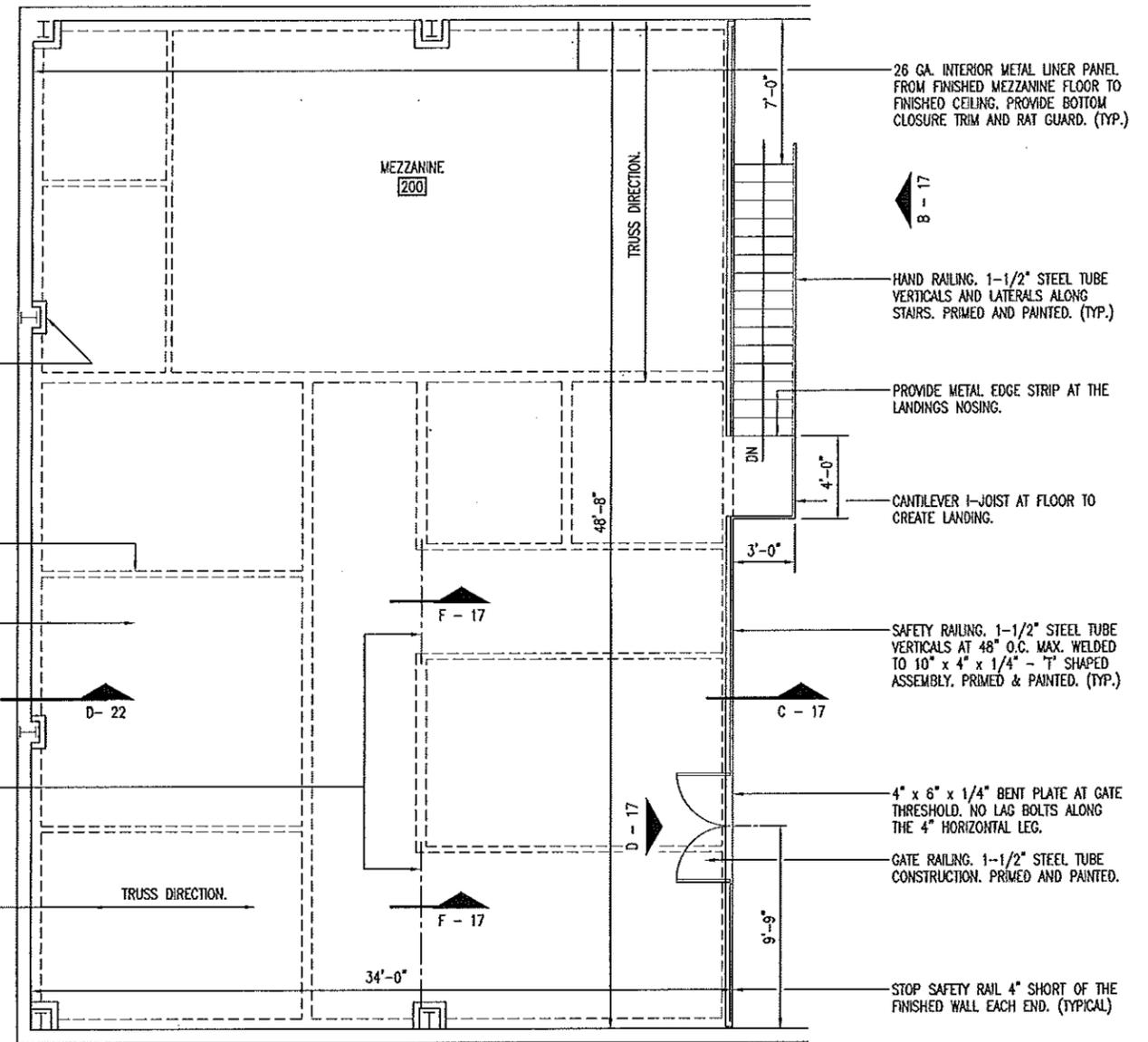
WRAP ALL COLUMNS ON THE MEZZANINE WITH 2 x 4 WOOD STUDS & 1/2" AC PLYWOOD PAINTED UP TO MEZZANINE CEILING NEATLY AS REQUIRED. FOLLOW CEILING PITCH. ADD 4" VINYL BASE.

PARTITION WALLS BELOW ALL SHOWN DASHED. WALLS TO BE BEARING WALLS AS REQUIRED PER RECOMMENDATIONS OF THE FLOOR TRUSS MANUFACTURER.

3/4" TONGUE AND GROOVE PLYWOOD DECK GLUE AND SCREW. (TYPICAL)

CONTRACTOR TO PROVIDE GUELAM BEAM WITH A MAXIMUM DEPTH EQUAL TO I-JOIST. TIE INTO SIDE OF BEAM USING JOIST ANCHORS, BEARING ON WALLS BELOW AS REQUIRED. MAINTAIN EQUAL PLENUM DEPTH ABOVE FINISHED CEILING FOR HVAC DUCTWORK.

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



B
10
MEZZANINE PLAN
SCALE: 1/8" = 1'-0"



26 GA. INTERIOR METAL LINER PANEL FROM FINISHED MEZZANINE FLOOR TO FINISHED CEILING. PROVIDE BOTTOM CLOSURE TRIM AND RAT GUARD. (TYP.)

HAND RAILING. 1-1/2" STEEL TUBE VERTICALS AND LATERALS ALONG STAIRS. PRIMED AND PAINTED. (TYP.)

PROVIDE METAL EDGE STRIP AT THE LANDINGS NOSING.

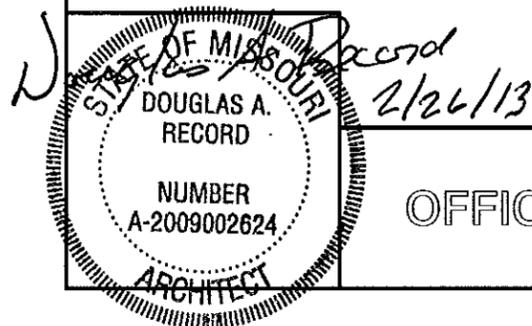
CANTILEVER I-JOIST AT FLOOR TO CREATE LANDING.

SAFETY RAILING. 1-1/2" STEEL TUBE VERTICALS AT 48" O.C. MAX. WELDED TO 10" x 4" x 1/4" - T" SHAPED ASSEMBLY. PRIMED & PAINTED. (TYP.)

4" x 6" x 1/4" BENT PLATE AT GATE THRESHOLD. NO LAG BOLTS ALONG THE 4" HORIZONTAL LEG.

GATE RAILING. 1-1/2" STEEL TUBE CONSTRUCTION. PRIMED AND PAINTED.

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

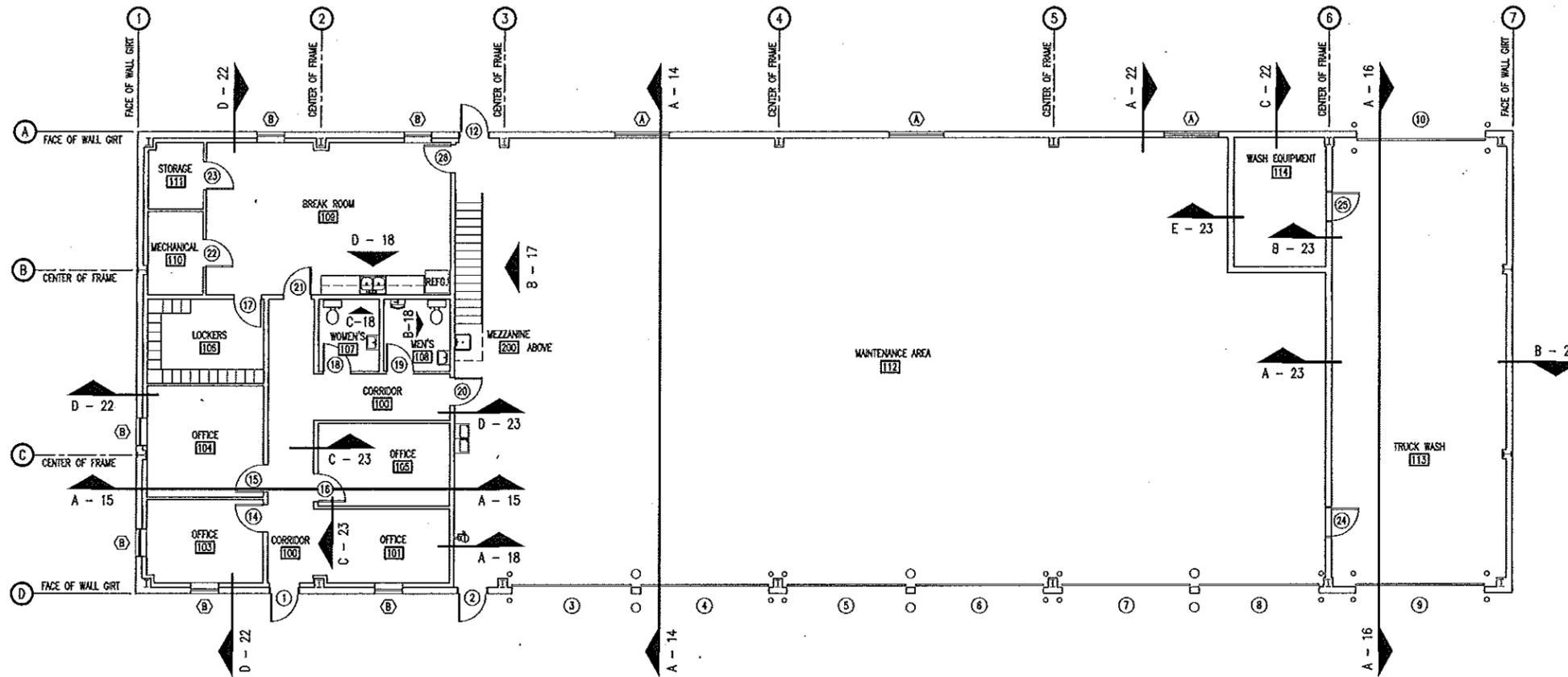


OFFICE DIMENSIONS & MEZZANINE PLAN

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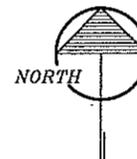
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NOTES:

- EXTERIOR WALLS @ MAINTENANCE AREA TO BE WALL TYPE A-22.
- EXTERIOR WALLS @ OFFICE AREA TO BE WALL TYPE D-22.
- EXTERIOR WALLS @ TRUCK WASH AREA TO BE WALL TYPE B-22.
- ALL INTERIOR WALLS TO BE WALL TYPE C-23 UNLESS INDICATED ON THE DRAWINGS.

A
11 ARCHITECTURAL FLOOR PLAN
SCALE: 1/16" = 1'-0"



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ARCHITECTURAL FLOOR PLAN

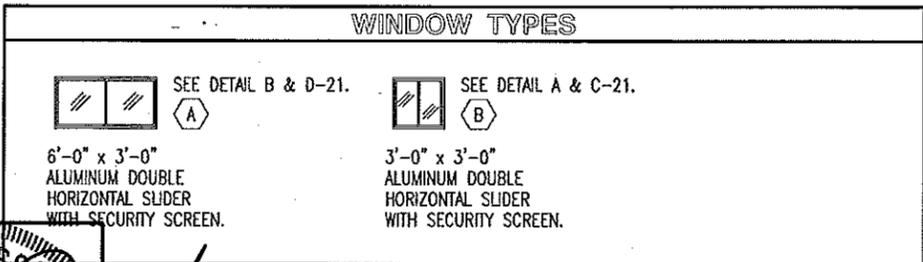
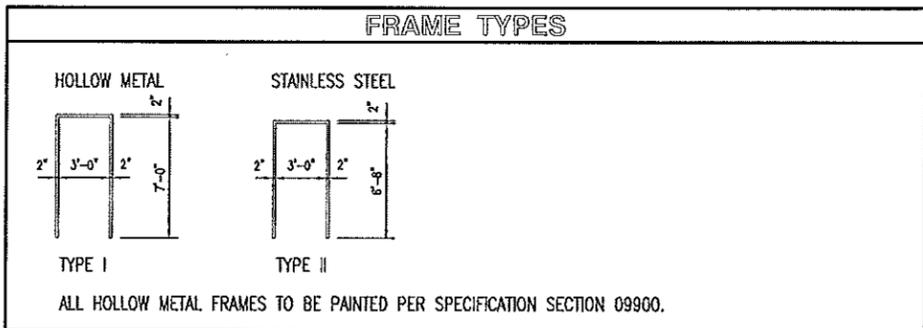
MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

NEW MAINTENANCE COMPLEX
Kansas City District - Clay County, Kansas City, MO 64161
3800 North Skiles Avenue

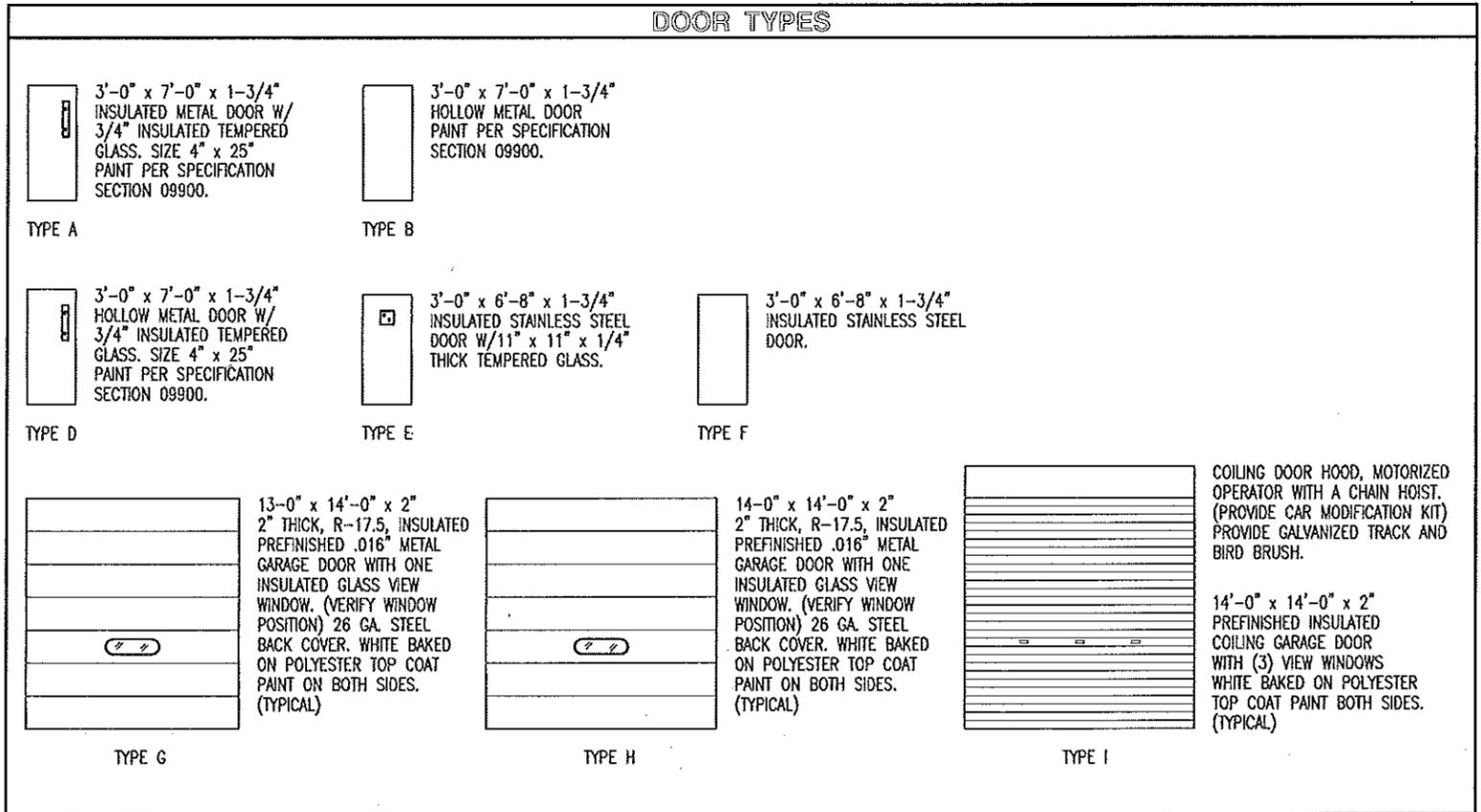
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DOOR SCHEDULE								
MARK	SWING	DOOR SIZE	DOOR MATERIAL	DOOR TYPE	FRAME MATR	FRAME TYPE	HEAD	HARDWARE GROUP
1	LHR	3'-0" x 7'-0" x 1-3/4"	INSUL. MTL.	A	MTL.	I	B-19	1
2	LHR	3'-0" x 7'-0" x 1-3/4"	INSUL. MTL.	A	MTL.	I	A-19	1
3	OH	13'-0" x 14'-0" x 2"	INSUL. MTL.	G	MTL.	-	C-20	-
4	OH	14'-0" x 14'-0" x 2"	INSUL. MTL.	H	MTL.	-	C-20	-
5	OH	13'-0" x 14'-0" x 2"	INSUL. MTL.	G	MTL.	-	C-20	-
6	OH	14'-0" x 14'-0" x 2"	INSUL. MTL.	H	MTL.	-	C-20	-
7	OH	14'-0" x 14'-0" x 2"	INSUL. MTL.	H	MTL.	-	C-20	-
8	OH	13'-0" x 14'-0" x 2"	INSUL. MTL.	G	MTL.	-	C-20	-
9	OH	14'-0" x 14'-0" x 2"	INSUL. MTL.	I	MTL.	-	D-20	-
10	OH	14'-0" x 14'-0" x 2"	INSUL. MTL.	I	MTL.	-	D-20	-
11	-	NOT USED	-	-	-	-	-	-
12	RHR	3'-0" x 7'-0" x 1-3/4"	INSUL. MTL.	A	MTL.	I	B-19	1
13	-	NOT USED	-	-	-	-	-	-
14	LH	3'-0" x 7'-0" x 1-3/4"	HOLLOW MTL.	B	MTL.	I	F-19	5
15	LH	3'-0" x 7'-0" x 1-3/4"	HOLLOW MTL.	B	MTL.	I	F-19	5
16	RH	3'-0" x 7'-0" x 1-3/4"	HOLLOW MTL.	B	MTL.	I	F-19	5
17	LH	3'-0" x 7'-0" x 1-3/4"	HOLLOW MTL.	B	MTL.	I	F-19	5
18	LH	3'-0" x 7'-0" x 1-3/4"	HOLLOW MTL.	B	MTL.	I	B-20	3
19	LH	3'-0" x 7'-0" x 1-3/4"	HOLLOW MTL.	B	MTL.	I	B-20	3
20	LH	3'-0" x 7'-0" x 1-3/4"	HOLLOW MTL.	D	MTL.	I	E-21	2
21	RH	3'-0" x 7'-0" x 1-3/4"	HOLLOW MTL.	B	MTL.	I	F-19	4
22	LHR	3'-0" x 7'-0" x 1-3/4"	HOLLOW MTL.	B	MTL.	I	A-20	5
23	LHR	3'-0" x 7'-0" x 1-3/4"	HOLLOW MTL.	B	MTL.	I	A-20	4
24	LH	3'-0" x 6'-8" x 1-3/4"	STAINLESS STEEL	E	STAINLESS	II	D-19	4
25	LH	3'-0" x 6'-8" x 1-3/4"	STAINLESS STEEL	F	STAINLESS	II	E-19	4
26	RH	3'-0" x 7'-0" x 1-3/4"	HOLLOW MTL.	D	MTL.	I	E-21	2

DOOR 20 TO BE FIRE RATED AND LABELED -- UL90.
ALL FRAMES TO BE FIRE RATED AND LABELED -- UL90.



ROOM FINISH SCHEDULE												
NO.	ROOM	FLOORS				BASE	WALLS				CEILING	
		EXPOSED CONCRETE	CONCRETE HARDENER/SEALER	3/4" T&G PLYWD	4" VINYL		INTERIOR METAL LINER PANELS	5/8" TYPE "X" GYPSUM BOARD	5/8" MOISTURE RESISTANT GYP BD	7/16" FIBERGLASS REINF. PANELS	1/2" AC PLYWOOD	LATEX PAINT
100	CORRIDOR	●	●	●	●						●	●
101	CLERK	●	●	●	●						●	●
102	-											
103	OFFICE	●	●	●	●						●	●
104	OFFICE	●	●	●	●						●	●
105	OFFICE	●	●	●	●						●	●
106	LOCKERS	●	●	●	●						●	●
107	WOMEN'S	●	●	●	●						●	●
108	MEN'S	●	●	●	●						●	●
109	BREAK ROOM	●	●	●	●						●	●
110	MECHANICAL ROOM	●	●	●	●						●	●
111	STORAGE	●	●	●	●						●	●
112	MAINTENANCE AREA	●	●	●	●	●	●				●	●
113	TRUCK WASH	●	●	●	●				●			●
114	WASH EQUIPMENT	●	●	●	●					●	●	●
200	MEZZANINE	●	●	●	●	●	●				●	●



GENERAL NOTES:

BUILDING MANUFACTURER TO FURNISH ALL NECESSARY FLASHING AND TRIM TO PROVIDE A NEAT, WEATHERPROOF APPEARANCE AT ALL DOORS, WINDOWS, COLUMNS AND ANY LOCATION WHERE THE METAL LINER PANELS MAY BE CUT.

ROOM FINISHES TO BE PAINTED PER SPECIFICATION 09900.

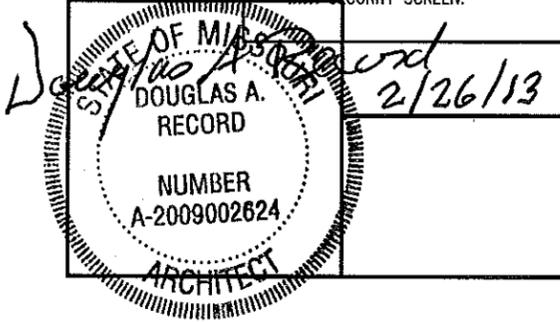
FRAMED WALL IN MAINTENANCE AREA TO RECEIVE 1/2" AC PLYWOOD PAINTED PER SPECIFICATION 09900, & 4" VINYL BASE.

PROVIDE FULL THICK SOUND BATT INSULATION (NOT SHOWN) TYPICAL @ ALL INTERIOR STUD WALLS, SEE SPECIFICATION SECTION 07210.

PROVIDE BLOCKING BEHIND ALL ITEMS CONNECTED TO LINER PANELS INCLUDING BUT NOT LIMITED TO MECHANICAL, ELECTRICAL AND PLUMBING LINES, BOXES AND FIXTURES.

ALL EXTERIOR HOLLOW METAL DOOR FRAMES TO HAVE SOLID GROUT FILL @ STEM WALL.

ALL OVERHEAD DOOR JAMBS TO STOP AT FINISHED FLOOR, NOT AT TOP OF STEM WALL.

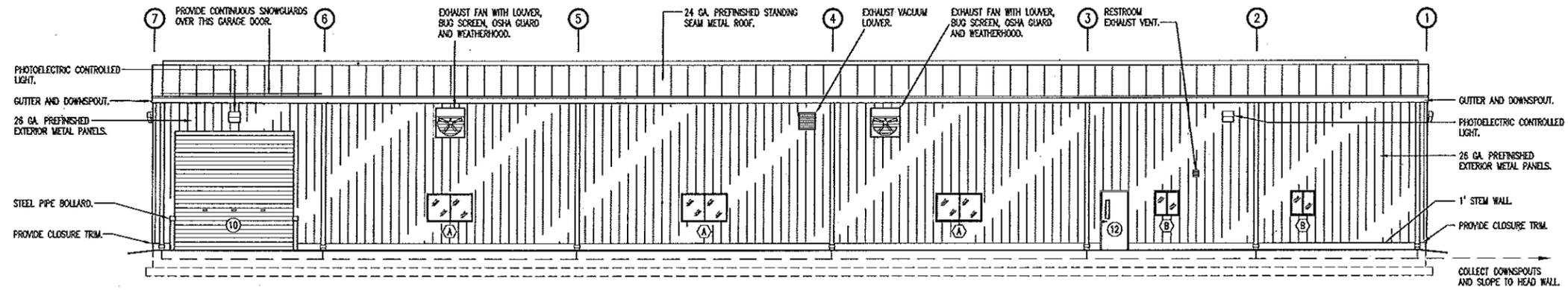


SCHEDULES

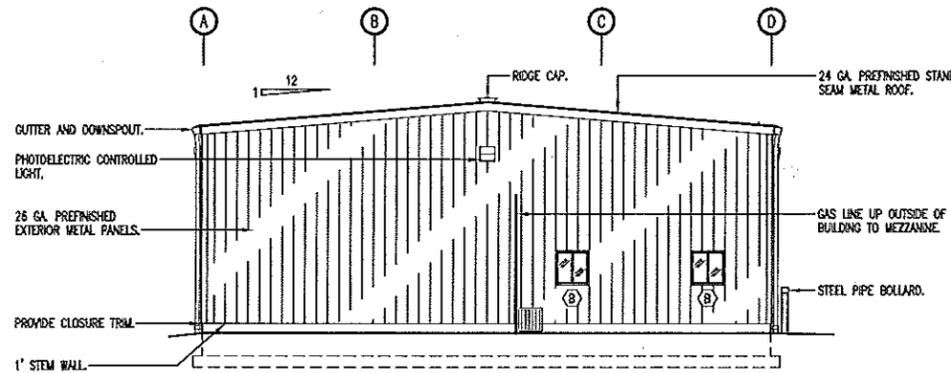
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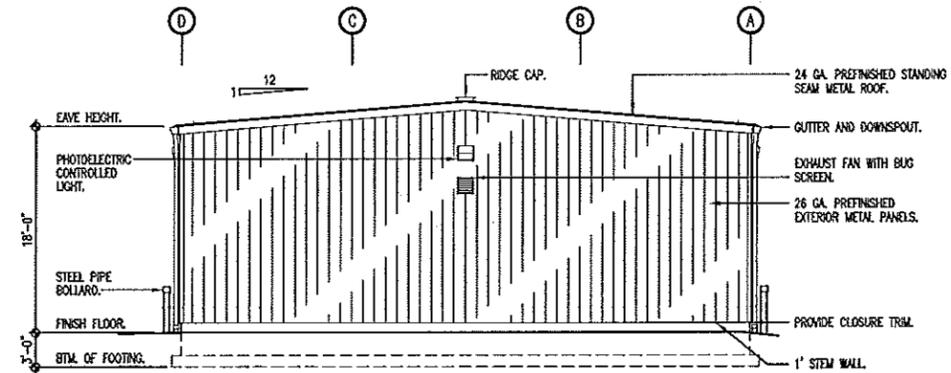
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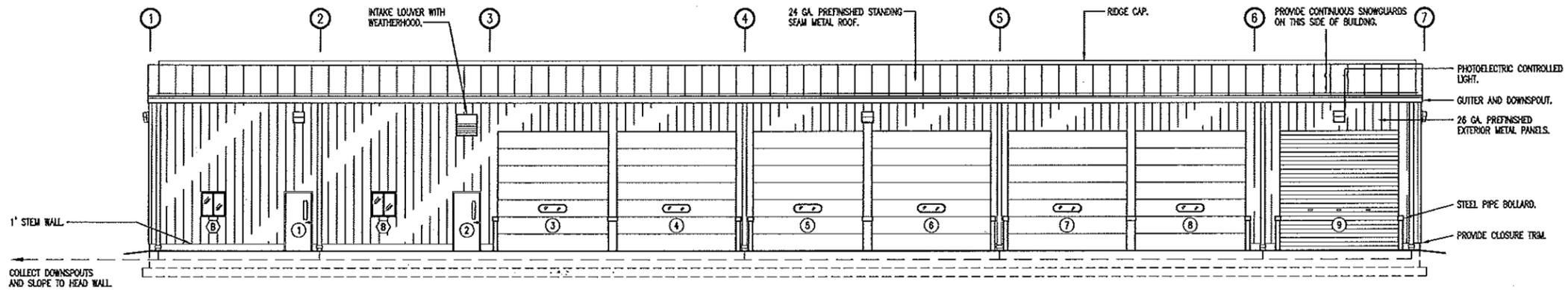
D
13
NORTH ELEVATION
SCALE: 1/16" = 1'-0"



B
13
WEST ELEVATION
SCALE: 1/16" = 1'-0"



C
13
EAST ELEVATION
SCALE: 1/16" = 1'-0"



A
13
SOUTH ELEVATION
SCALE: 1/16" = 1'-0"

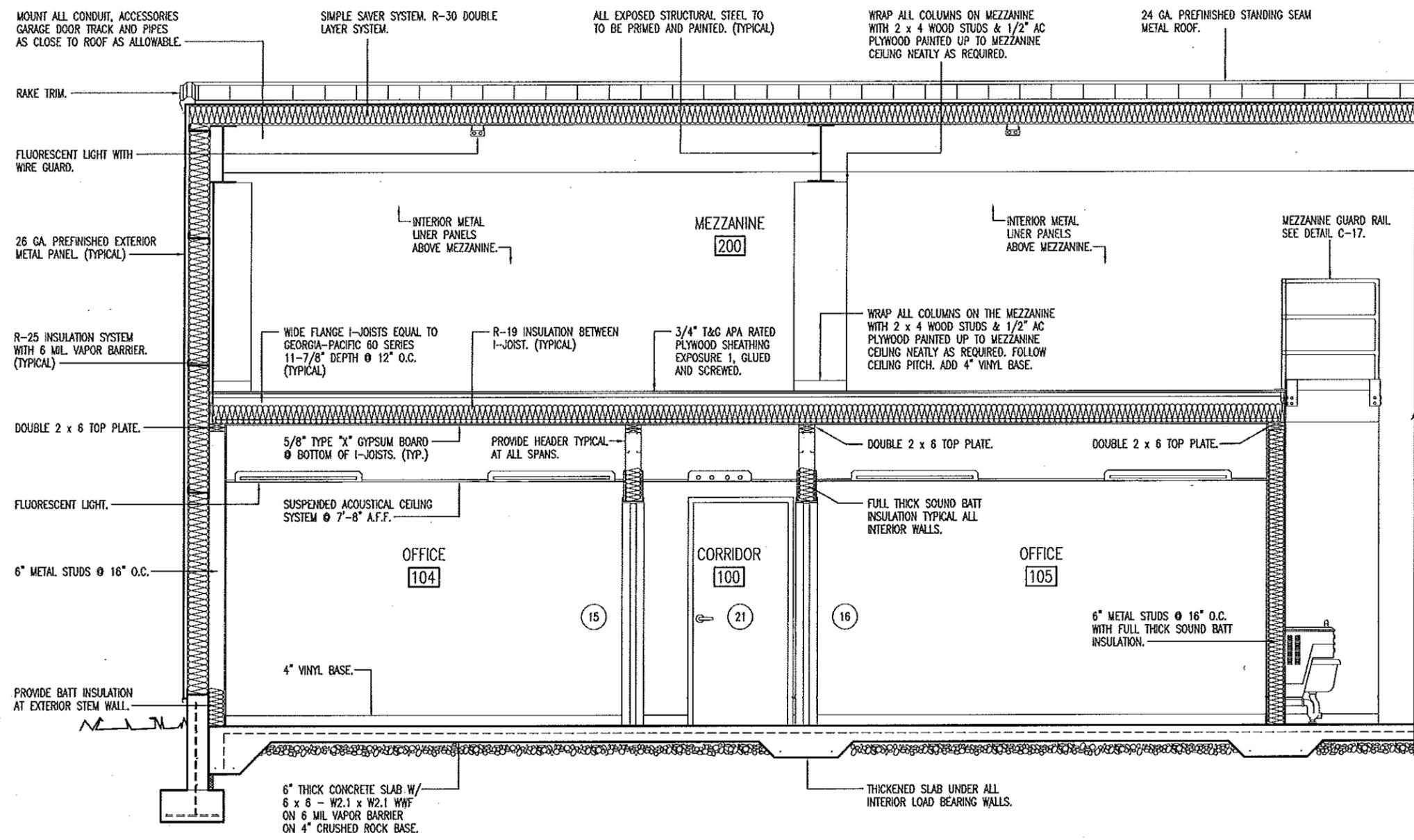
STATE OF MISSOURI
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DOUGLAS A.
RECORD
NUMBER
A-2009002624
ARCHITECT
2/26/13

ELEVATIONS

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

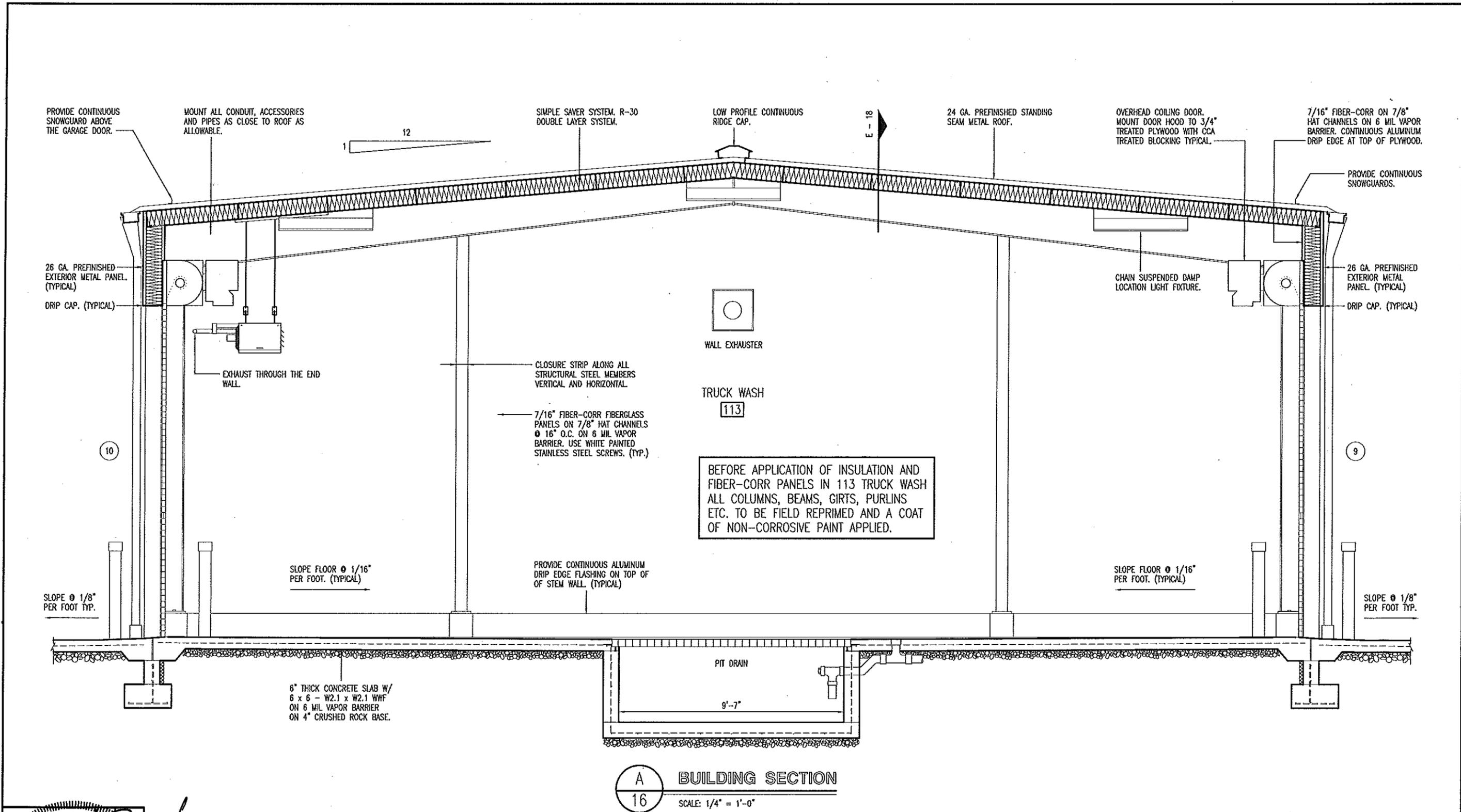
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 ARCHITECT
 2/26/13

BUILDING SECTION

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

BEFORE APPLICATION OF INSULATION AND FIBER-CORR PANELS IN 113 TRUCK WASH ALL COLUMNS, BEAMS, GIRTS, PURLINS ETC. TO BE FIELD REPRIMED AND A COAT OF NON-CORROSIVE PAINT APPLIED.

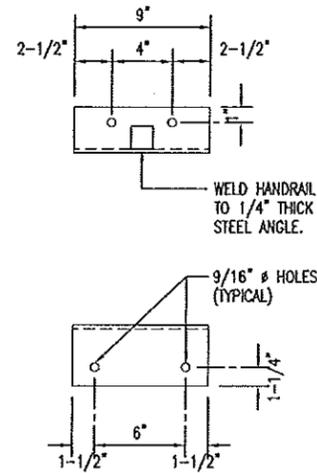
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DOUGLAS A. RECORD
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ARCHITECT
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BUILDING SECTION

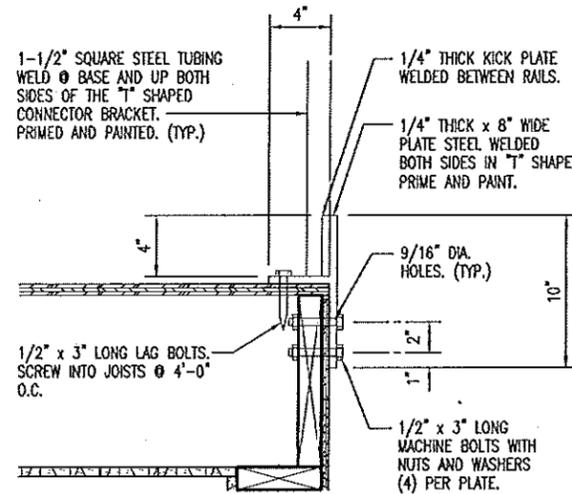
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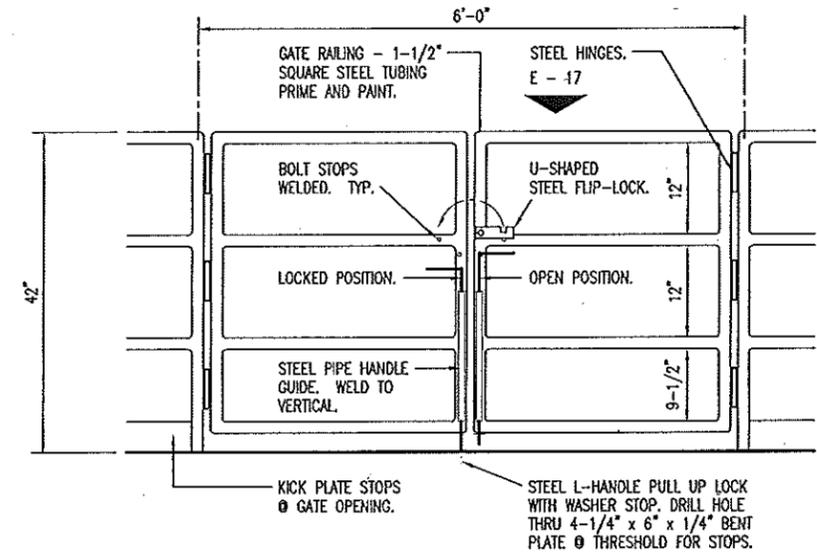
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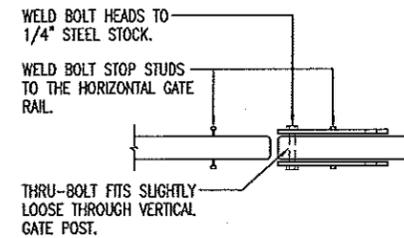
A
17
PRIMED AND PAINTED.
STAIR RAIL CONNECTION
SCALE: 1" = 1'-0"



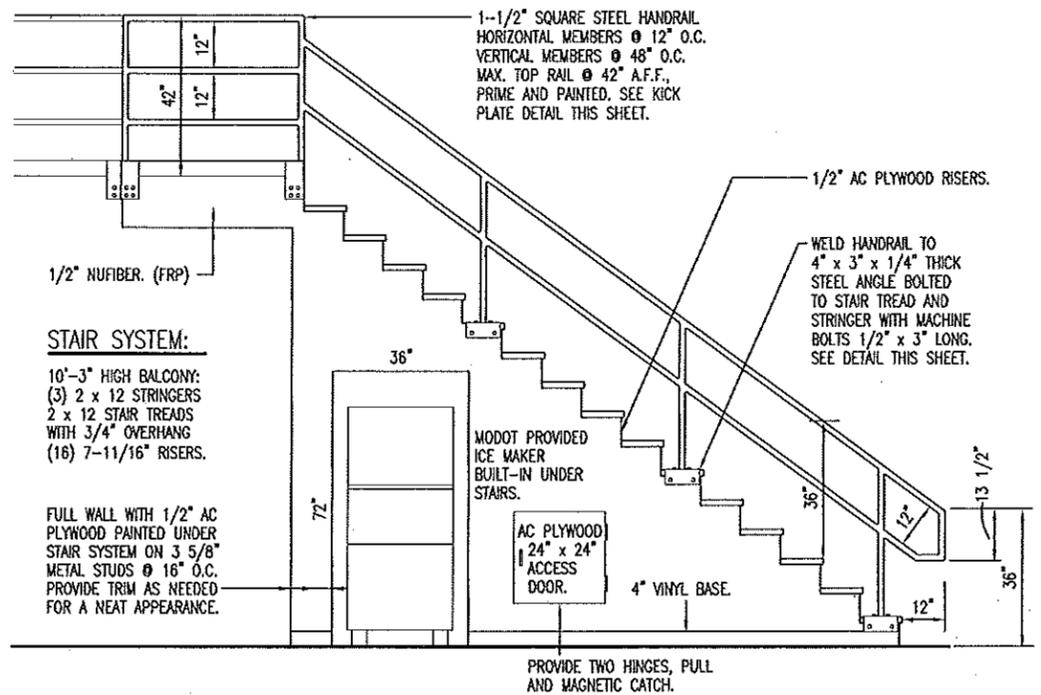
C
17
KICK PLATE DETAIL
SCALE: 1" = 1'-0"



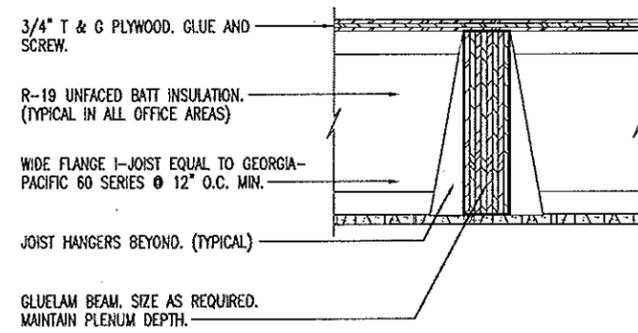
D
17
VIEW FROM MEZZANINE
SWING GATE DETAIL
SCALE: 1" = 1'-0"



E
17
FLIP LOCK
SCALE: 1" = 1'-0"



B
17
MEZZANINE STAIR SYSTEM
SCALE: 1/4" = 1'-0"



F
17
BEAM DETAIL
SCALE: 1" = 1'-0"

STAIR SYSTEM:
10'-3" HIGH BALCONY:
(3) 2 x 12 STRINGERS
2 x 12 STAIR TREADS
WITH 3/4" OVERHANG
(16) 7-11/16" RISERS.

FULL WALL WITH 1/2" AC
PLYWOOD PAINTED UNDER
STAIR SYSTEM ON 3 5/8"
METAL STUDS @ 16" O.C.
PROVIDE TRIM AS NEEDED
FOR A NEAT APPEARANCE.

PROVIDE TWO HINGES, PULL
AND MAGNETIC CATCH.

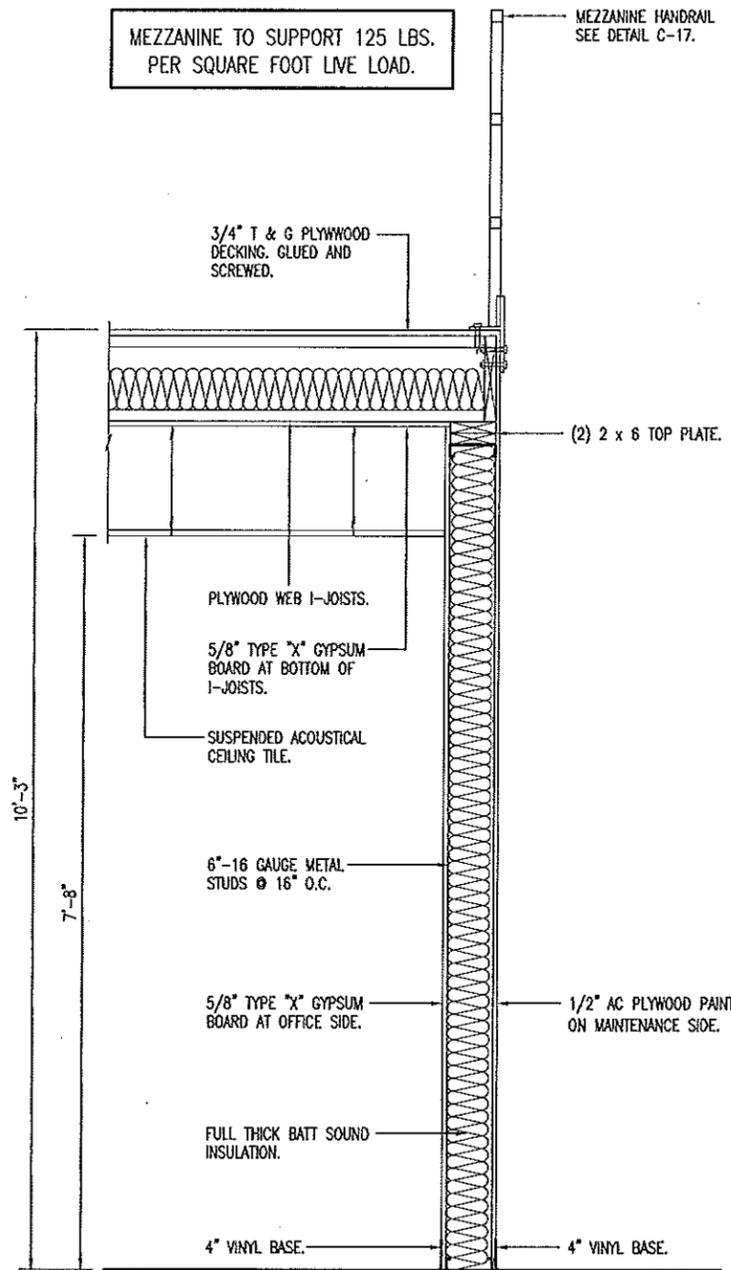
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2/26/13

STAIR & RAILING DETAILS

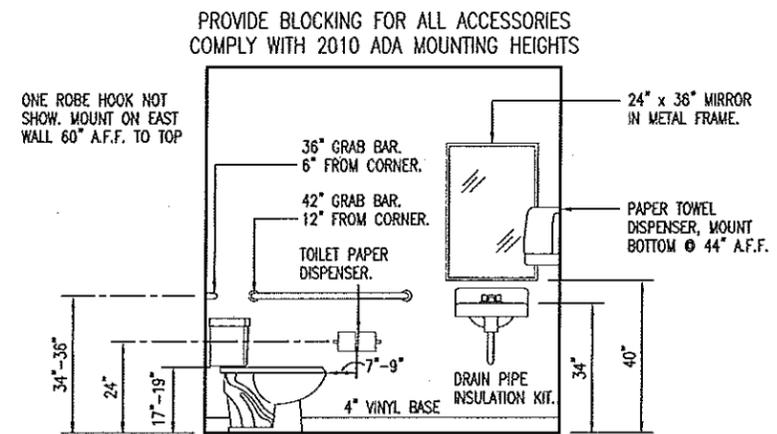
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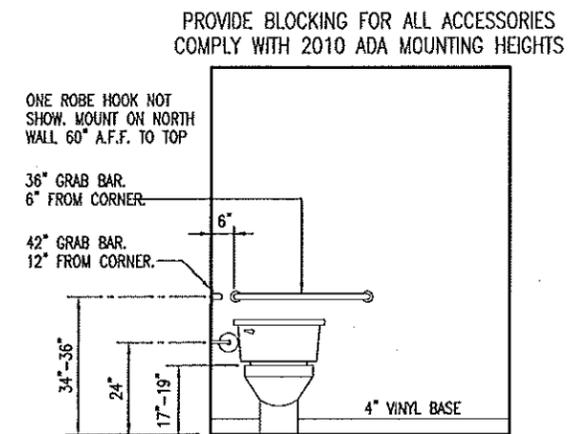
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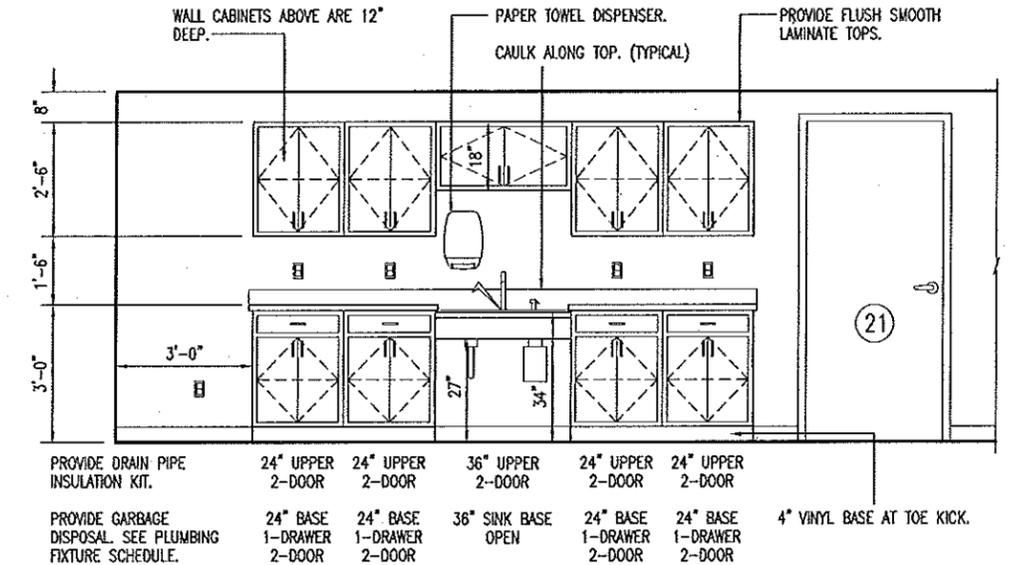
A MEZZANINE WALL SECTION
18 SCALE: 1/2" = 1'-0"



B RESTROOM ELEVATION
18 SCALE: 1/4" = 1'-0"

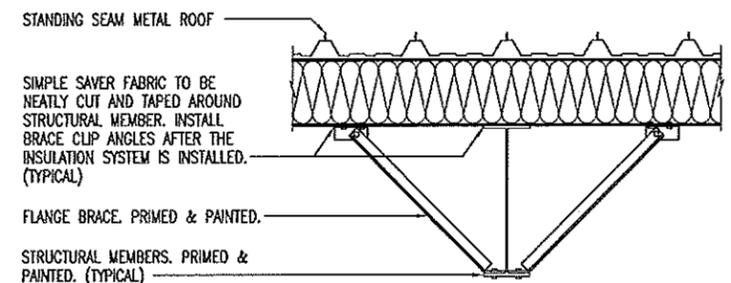


C RESTROOM ELEVATION
18 SCALE: 1/2" = 1'-0"

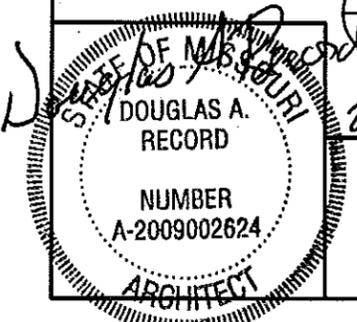


D 109 BREAKROOM CASEWORK ELEVATION
18 SCALE: 1/4" = 1'-0"

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.
1-1/2" COUNTER TOP & 4" BACKSPLASH - PLASTIC LAMINATE ON 3/4" HIGH DENSITY PARTICLEBOARD.



E FLANGE BRACING
18 SCALE: 1/2" = 1'-0"

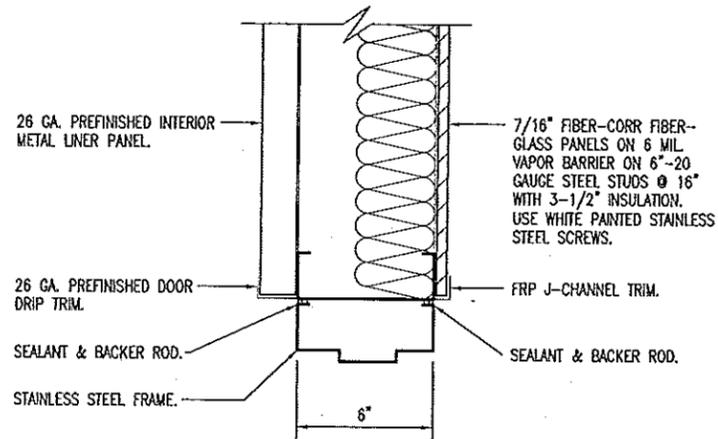


INTERIOR ELEVATIONS

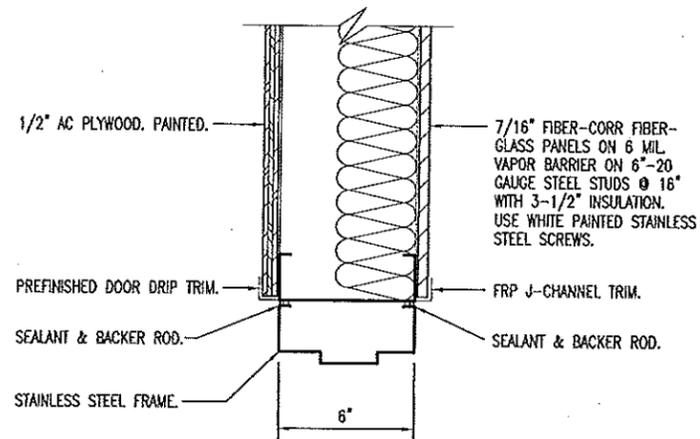
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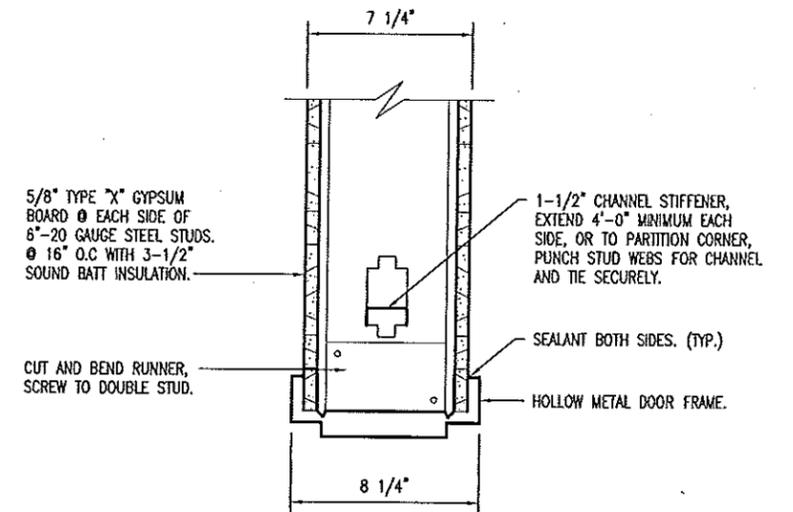
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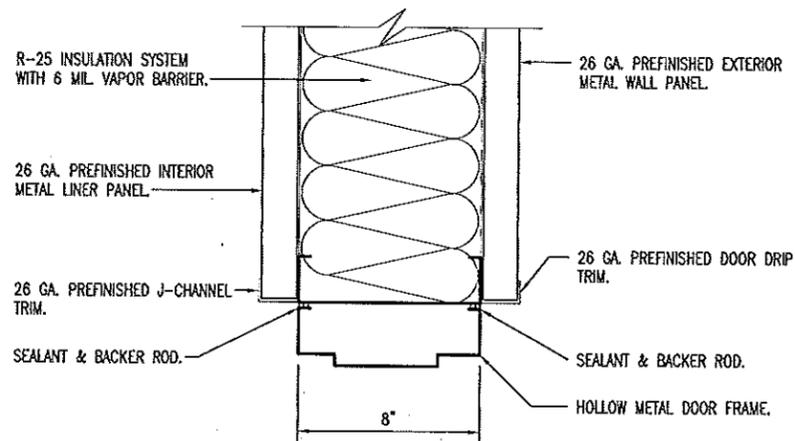
D DOOR HEAD/JAMB
19 SCALE: 1-1/2" = 1'-0"



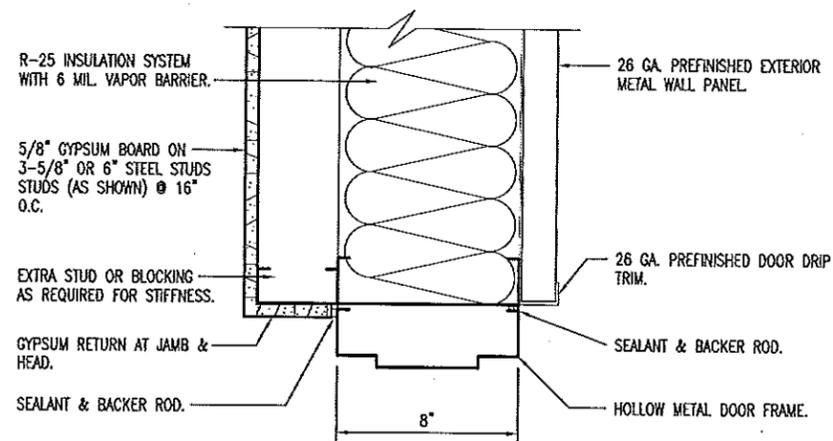
E DOOR HEAD/JAMB
19 SCALE: 1-1/2" = 1'-0"



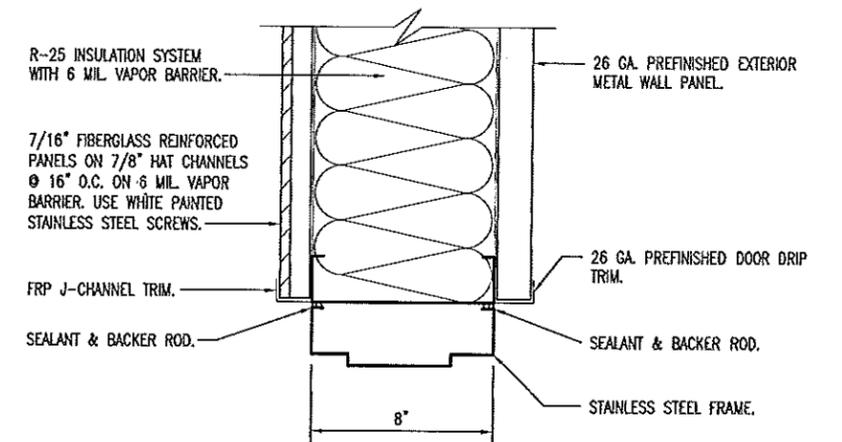
F DOOR HEAD/JAMB
19 SCALE: 1-1/2" = 1'-0"
SOUND BATT INSULATION NOT SHOWN.



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



B DOOR HEAD/JAMB
19 SCALE: 1-1/2" = 1'-0"



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

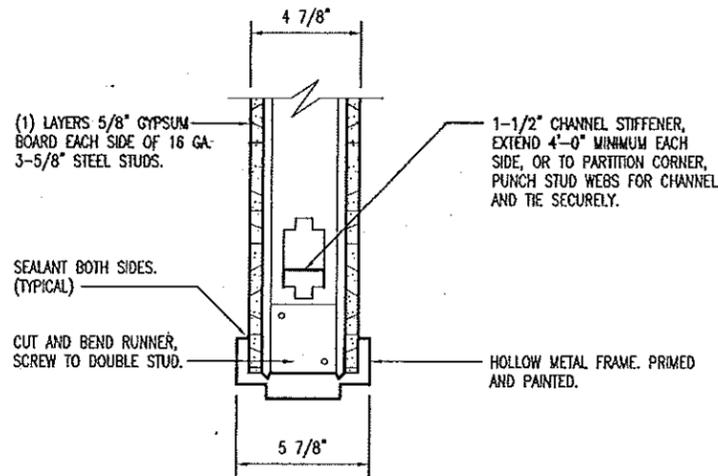
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HEAD & JAMB DETAILS

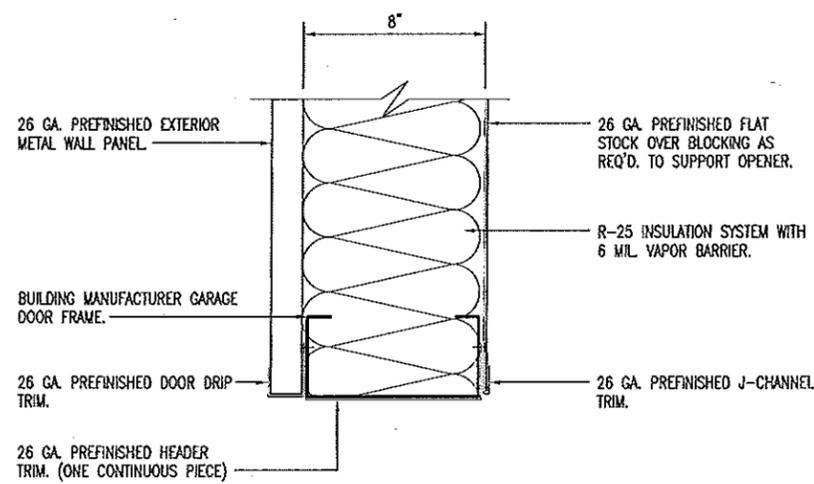
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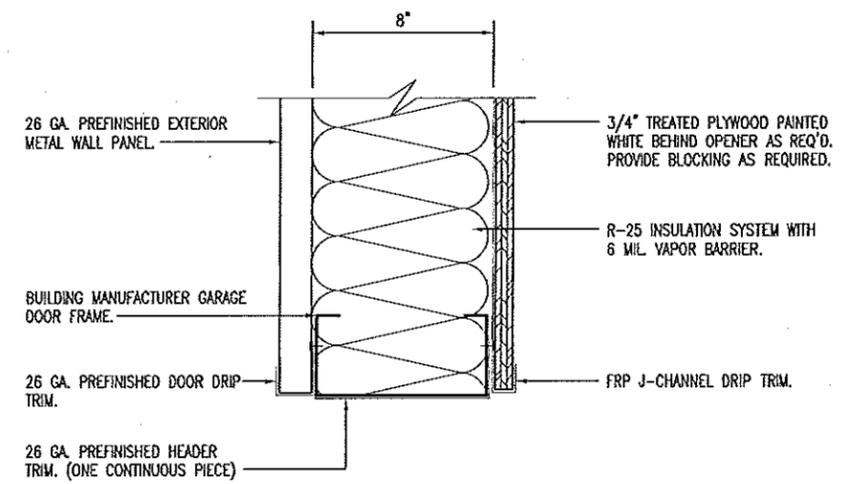
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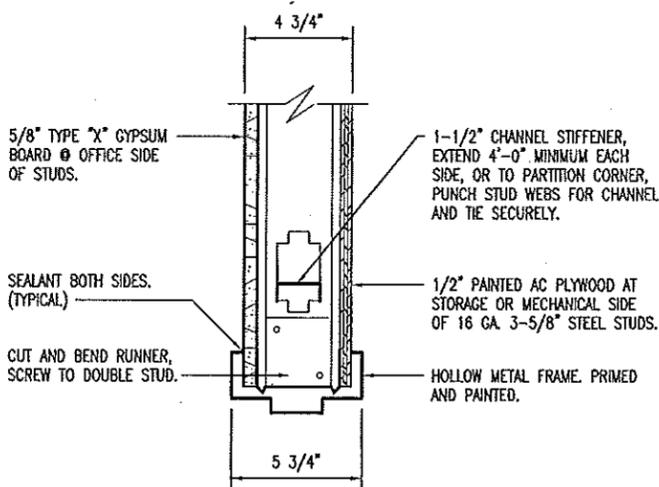
B
20
SOUND BATT INSULATION NOT SHOWN.
DOOR HEAD/JAMB
SCALE: 1-1/2" = 1'-0"



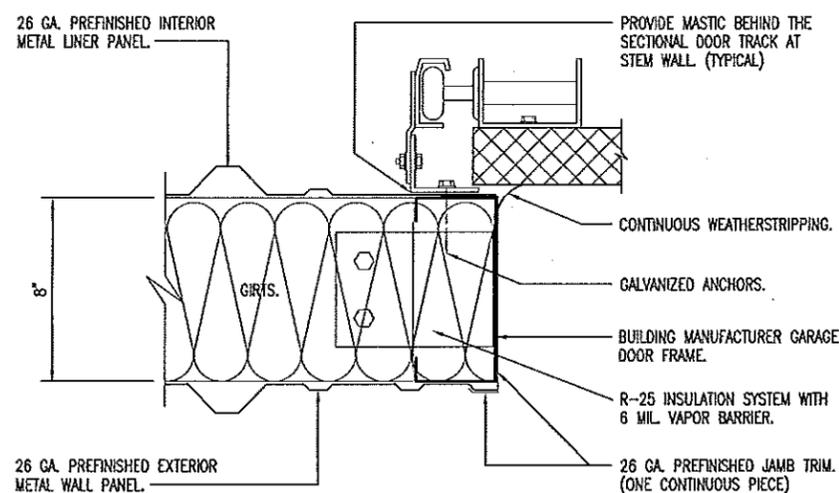
GARAGE DOOR HEAD
SCALE: 1-1/2" = 1'-0"



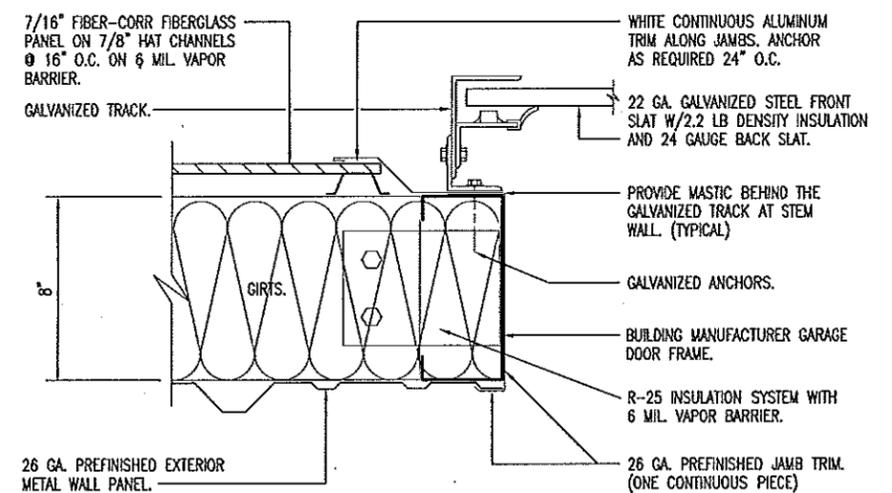
GARAGE DOOR HEAD
SCALE: 1-1/2" = 1'-0"



A
20
SOUND BATT INSULATION NOT SHOWN.
DOOR HEAD/JAMB
SCALE: 1-1/2" = 1'-0"



C
20
GARAGE DOOR JAMB
SCALE: 1-1/2" = 1'-0"



D
20
GARAGE DOOR JAMB
SCALE: 1-1/2" = 1'-0"

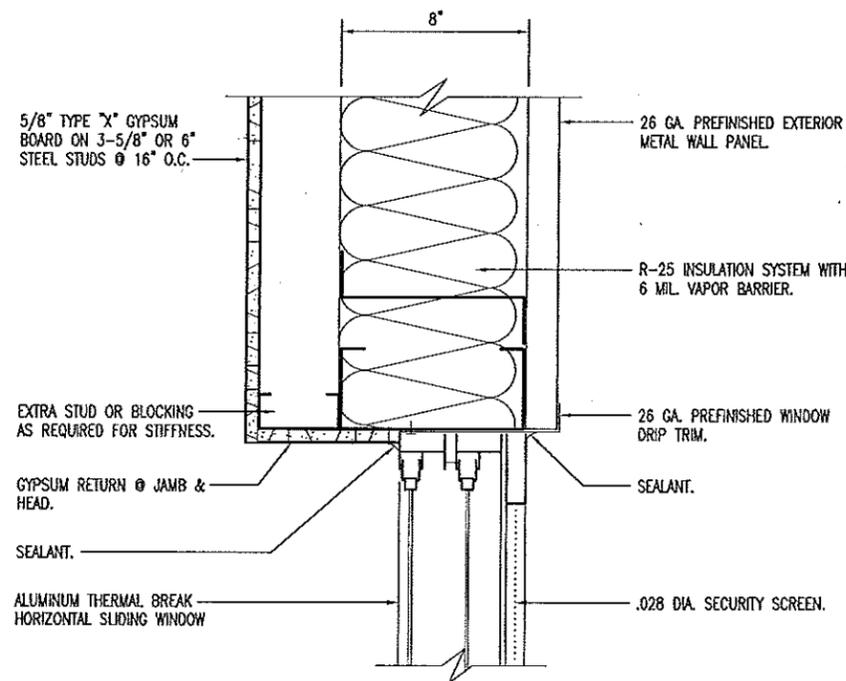
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HEAD & JAMB DETAILS

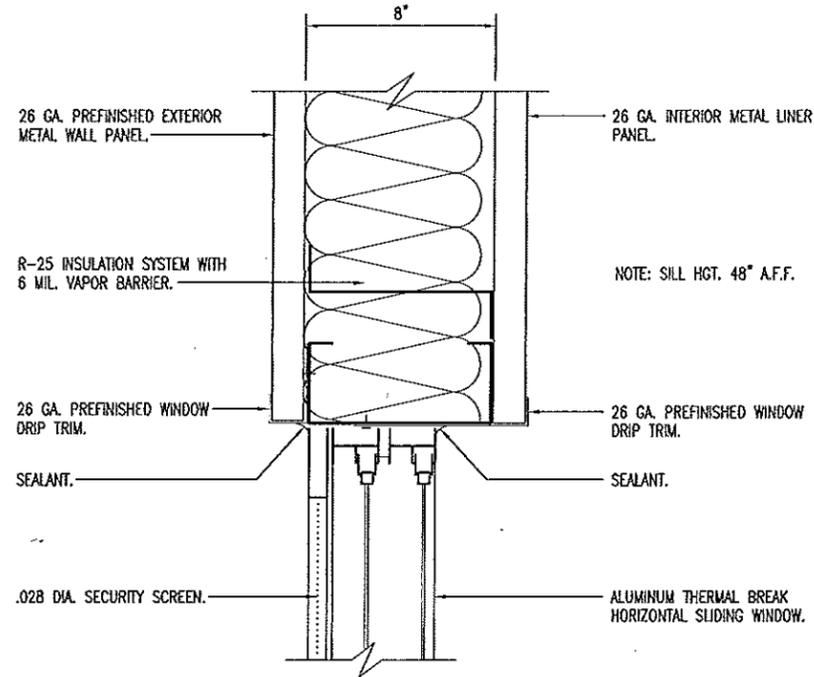
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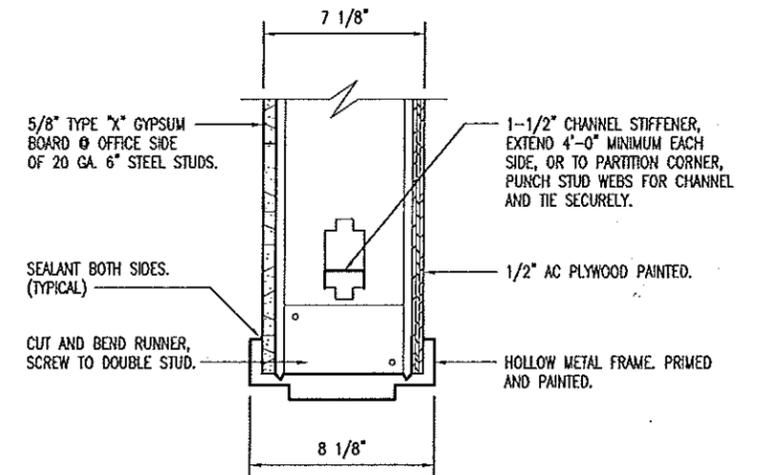
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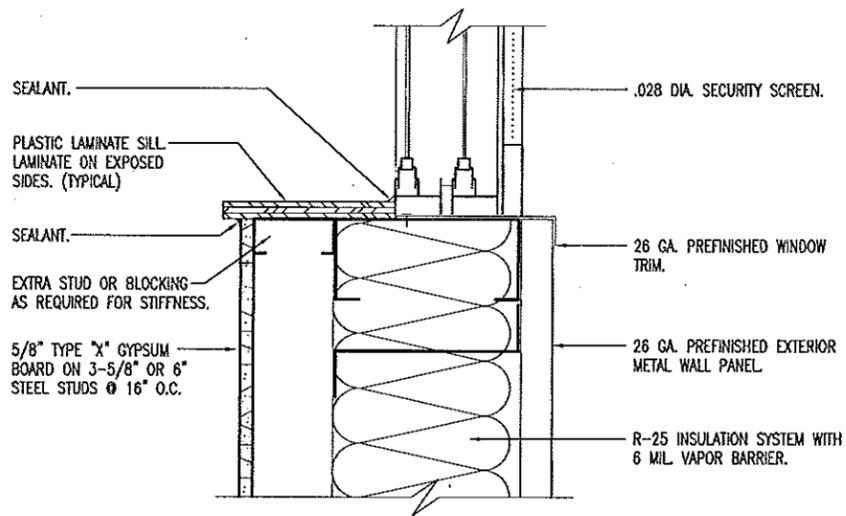
C
21
AT OFFICE AREA
WINDOW HEAD/JAMB
SCALE: 1-1/2" = 1'-0"



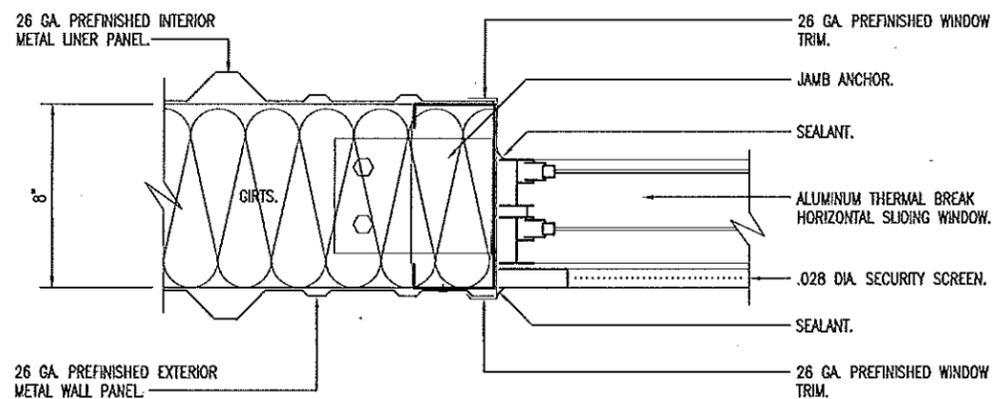
D
21
AT MAINTENANCE AREA
WINDOW HEAD
SCALE: 1-1/2" = 1'-0"



E
21
SOUND BATT INSULATION NOT SHOWN.
DOOR HEAD/JAMB
SCALE: 1-1/2" = 1'-0"



A
21
AT OFFICE AREA
WINDOW SILL
SCALE: 1-1/2" = 1'-0"



B
21
AT MAINTENANCE AREA
WINDOW JAMB
SCALE: 1-1/2" = 1'-0"

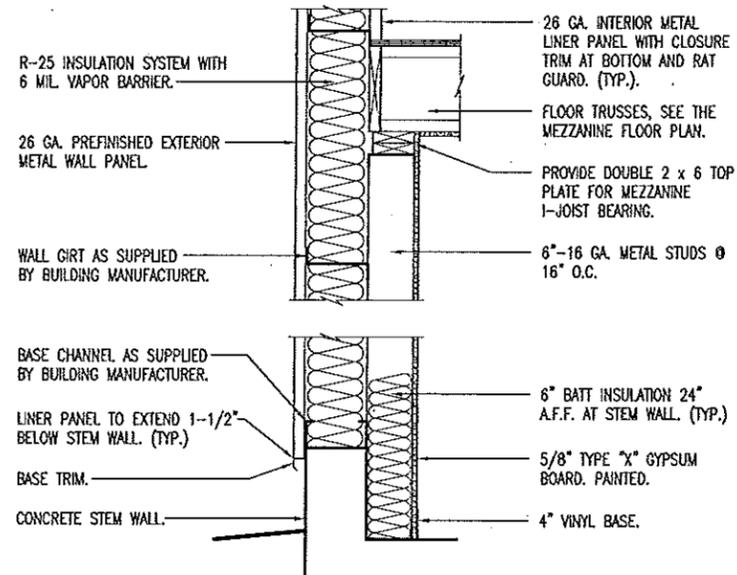
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HEAD & JAMB DETAILS

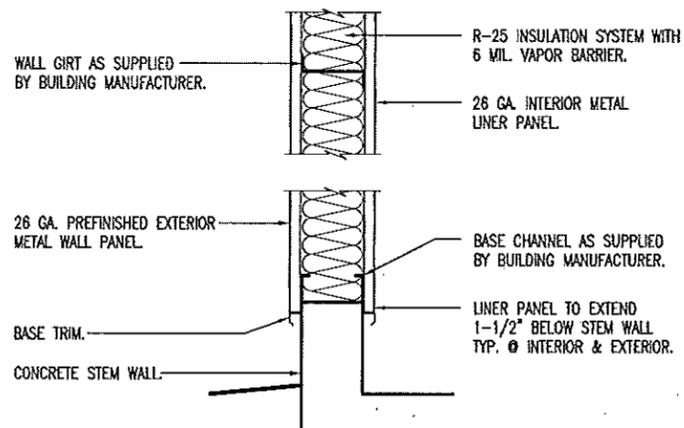
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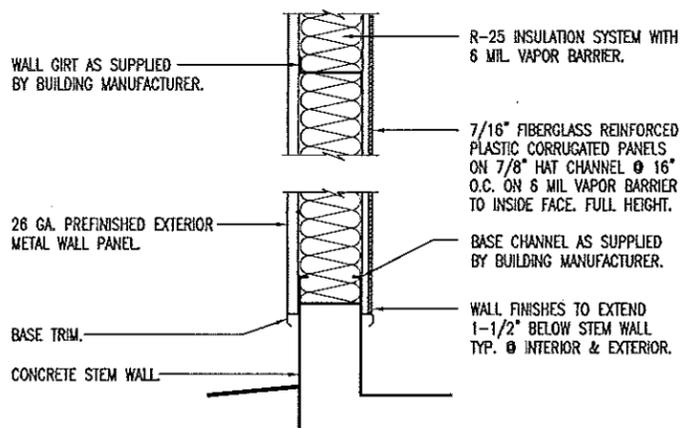
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DATE: 3-25-13
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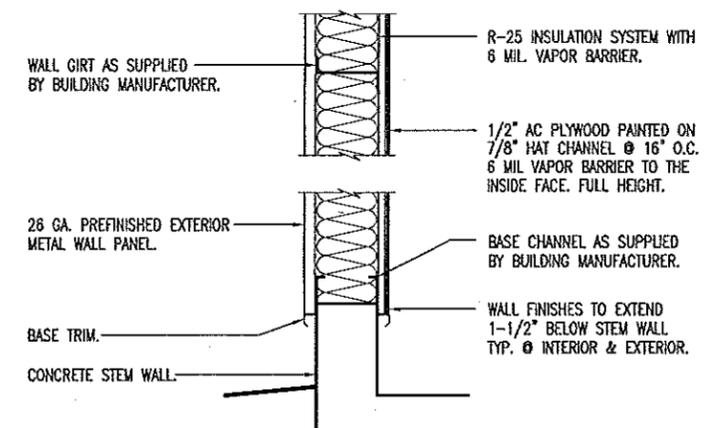
D EXTERIOR WALL SECTION
 22 SCALE: 1/2" = 1'-0"



A EXTERIOR WALL SECTION
 22 SCALE: 1/2" = 1'-0"



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



C EXTERIOR WALL SECTION
 22 SCALE: 1/2" = 1'-0"

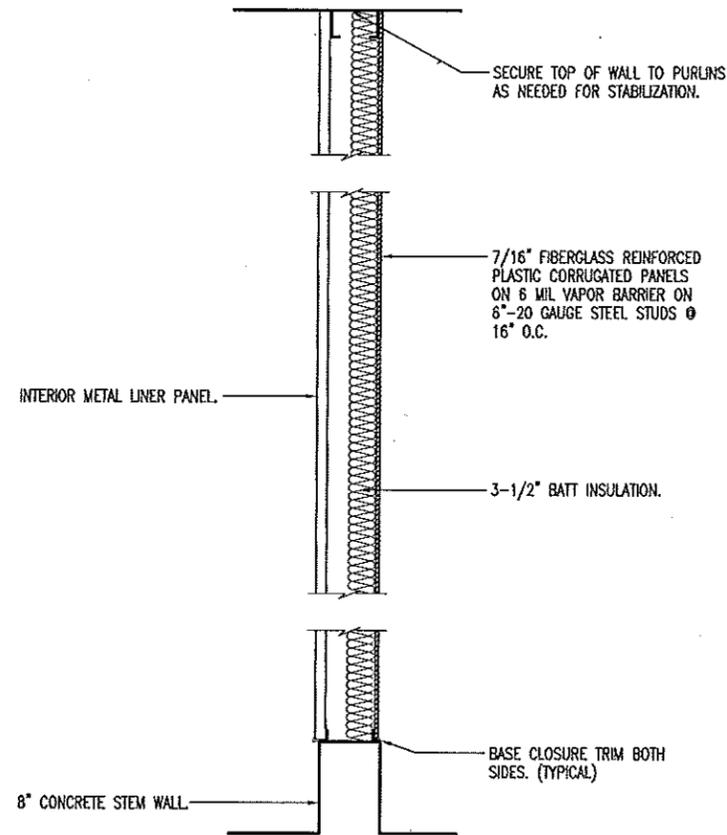
Record
 MISSOURI ARCHITECTS ASSOCIATION
 DOUGLAS A. RECORD
 NUMBER A-2009002624
 ARCHITECT
 2/26/13

WALL SECTIONS

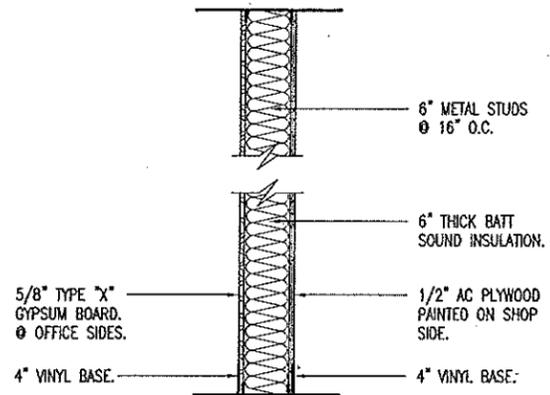
MISSOURI DEPARTMENT OF TRANSPORTATION
 DIVISION OF GENERAL SERVICES
 FACILITIES MANAGEMENT

NEW MAINTENANCE COMPLEX
 Kansas City District - Clay County, Kansas City, MO 64161
 3800 North Skiles Avenue

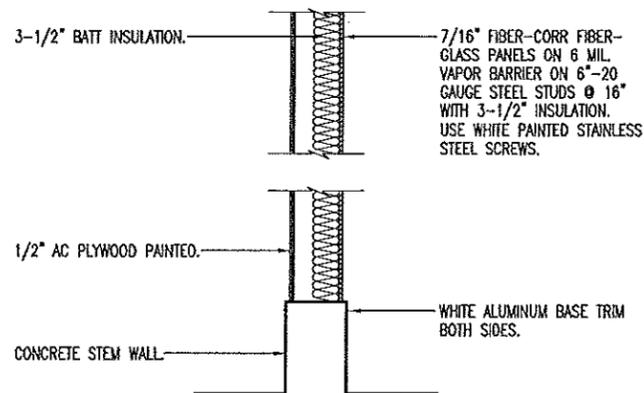
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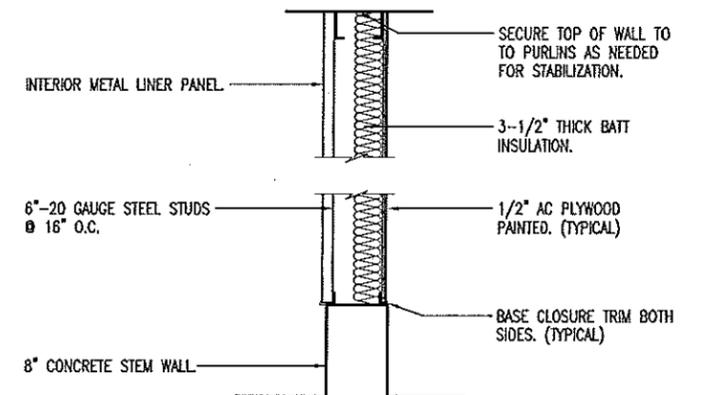
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23 SCALE: 1/2" = 1'-0"



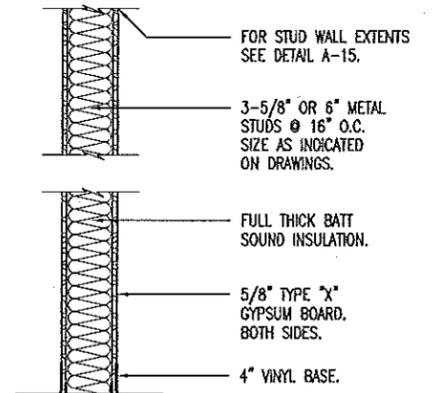
D INTERIOR WALL SECTION
23 SCALE: 1/2" = 1'-0"



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



E INTERIOR WALL SECTION
23 SCALE: 1/2" = 1'-0"



C INTERIOR WALL SECTION
23 SCALE: 1/2" = 1'-0"

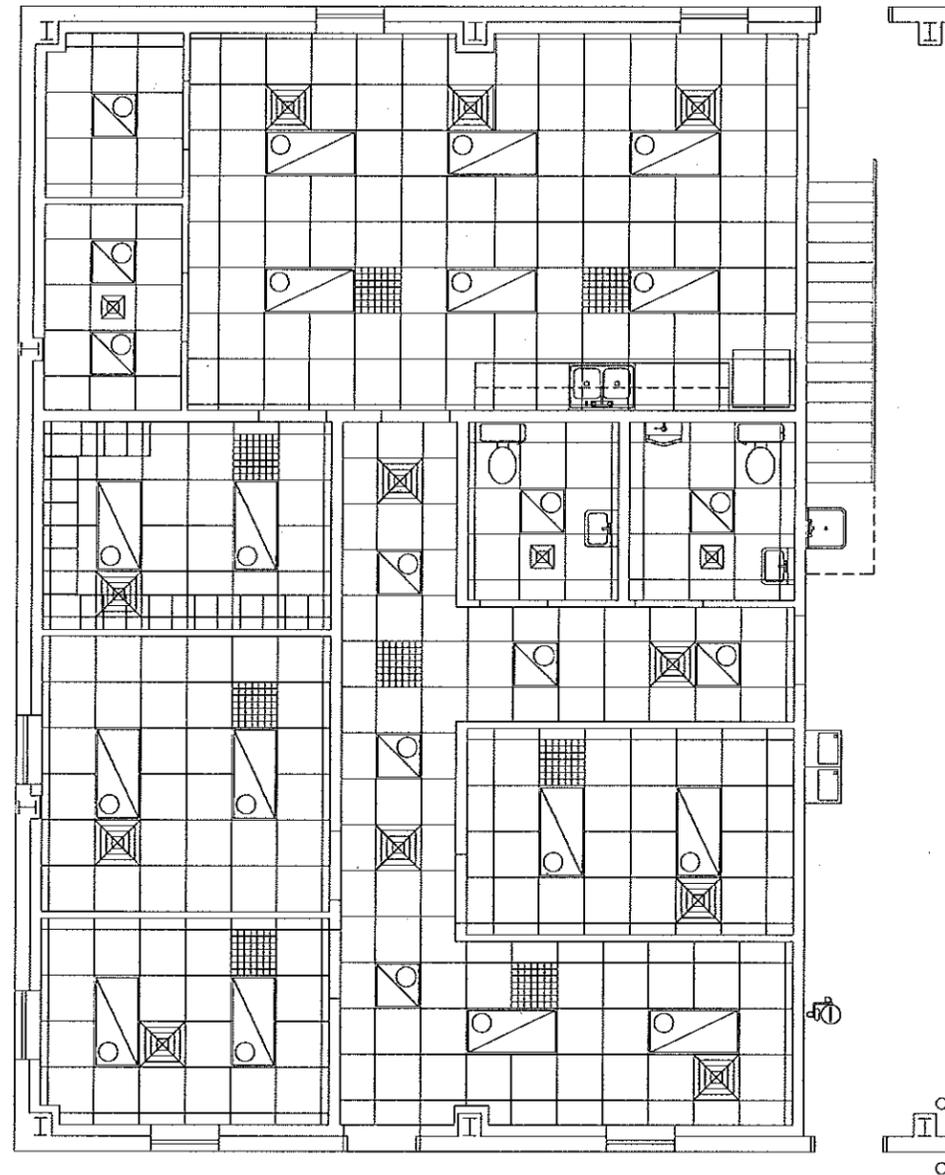
DOUGLAS A. RECORD
2/26/13
ARCHITECT

WALL SECTIONS

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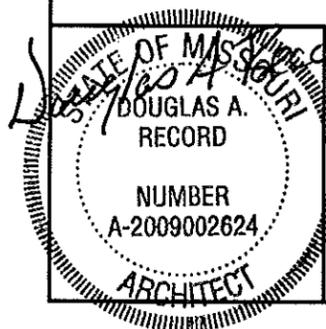
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A
24

REFLECTED CEILING PLAN

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

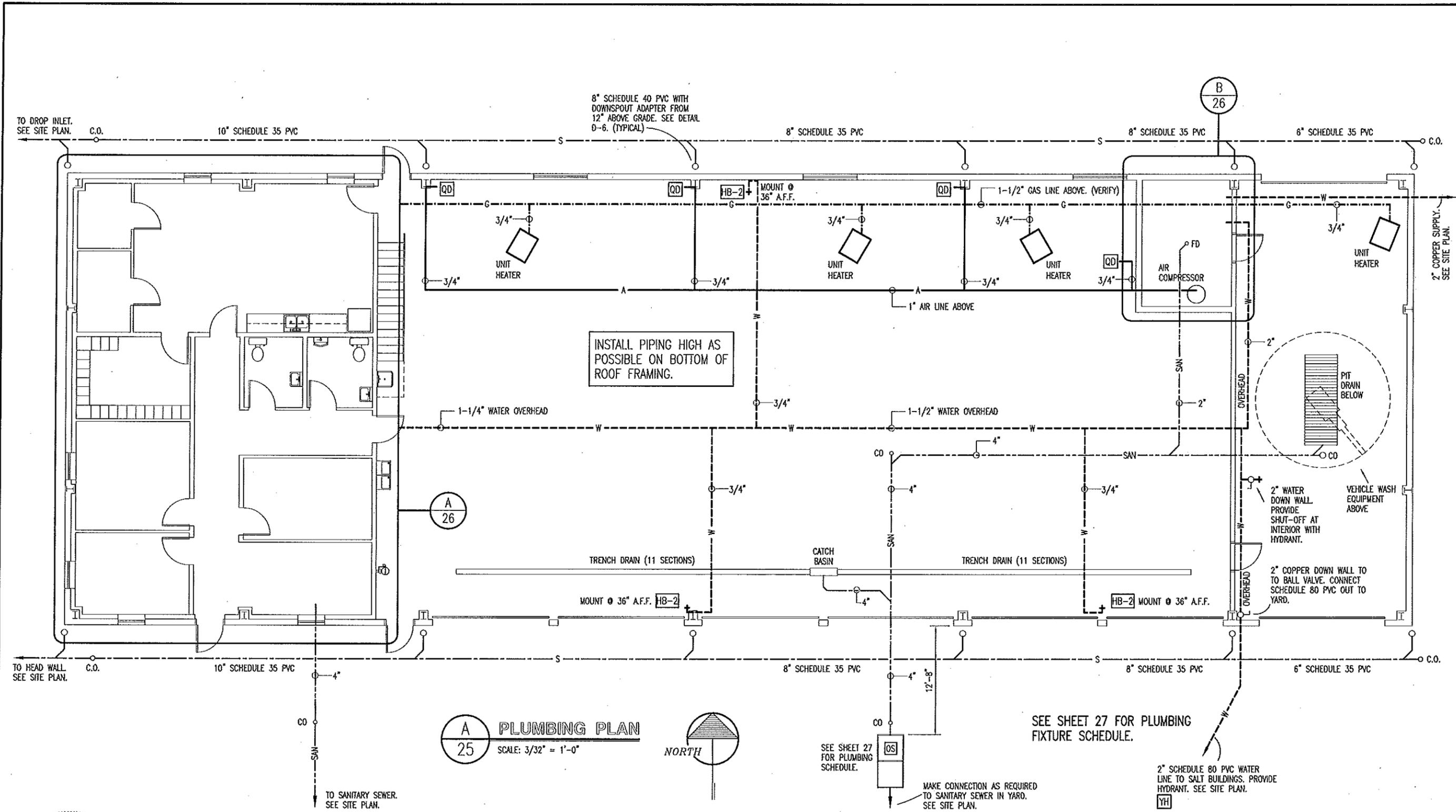


REFLECTED CEILING PLAN

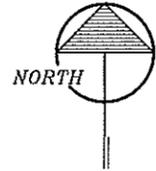
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A PLUMBING PLAN
 SCALE: 3/32" = 1'-0"

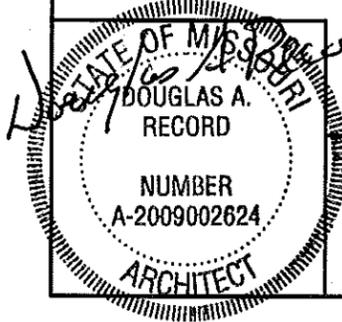


SEE SHEET 27 FOR PLUMBING
 FIXTURE SCHEDULE.

SEE SHEET 27
 FOR PLUMBING
 SCHEDULE.

MAKE CONNECTION AS REQUIRED
 TO SANITARY SEWER IN YARD.
 SEE SITE PLAN.

2" SCHEDULE 80 PVC WATER
 LINE TO SALT BUILDINGS. PROVIDE
 HYDRANT. SEE SITE PLAN.



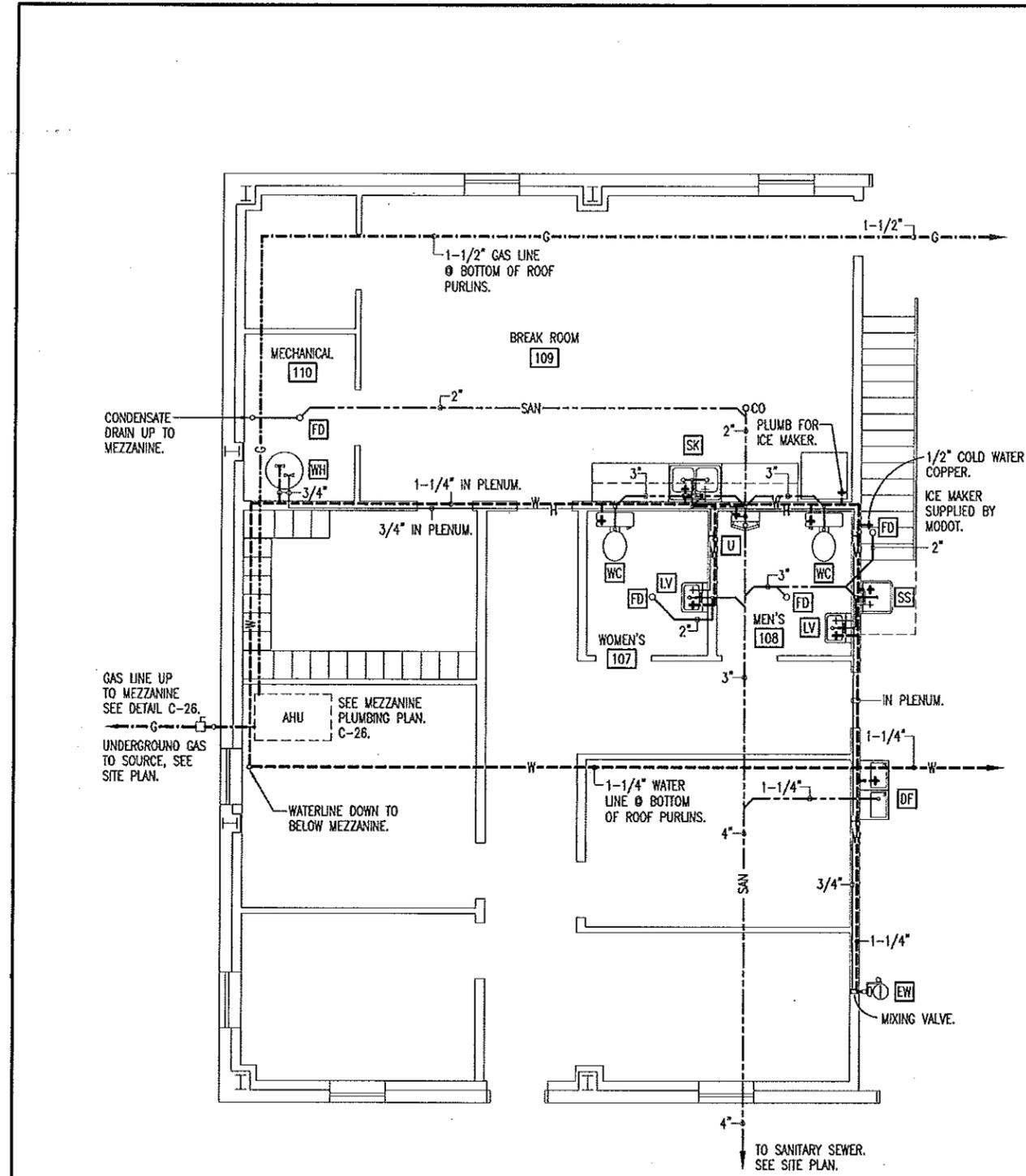
Handwritten: 2/26/13

PLUMBING PLAN

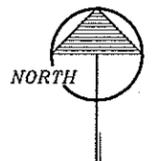
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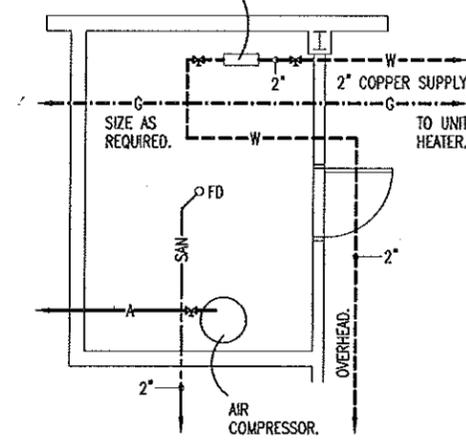
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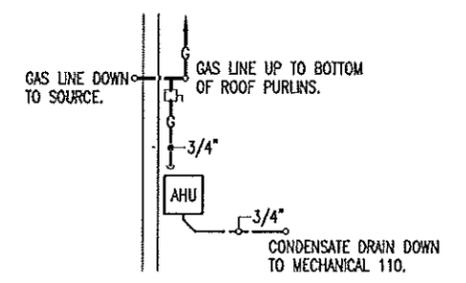
A
26
OFFICE PLUMBING PLAN
SCALE: 1/8" = 1'-0"



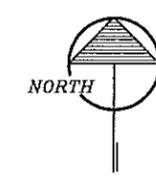
SEE SHEET 25 PLUMBING PLAN. 2" BACKFLOW PREVENTOR AND PRESSURE REDUCING VALVE.



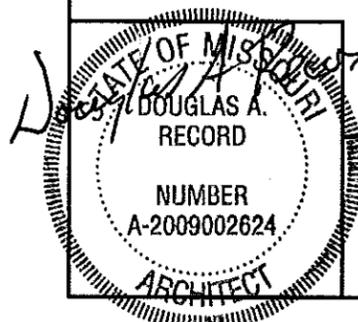
B
26
114 WASH EQUIPMENT PLUMBING
SCALE: 1/8" = 1'-0"



C
26
200 MEZZANINE PLUMBING
SCALE: NONE



SEE SHEET 27 FOR PLUMBING FIXTURE SCHEDULE.



OFFICE PLUMBING PLAN

PLUMBING FIXTURE SCHEDULE

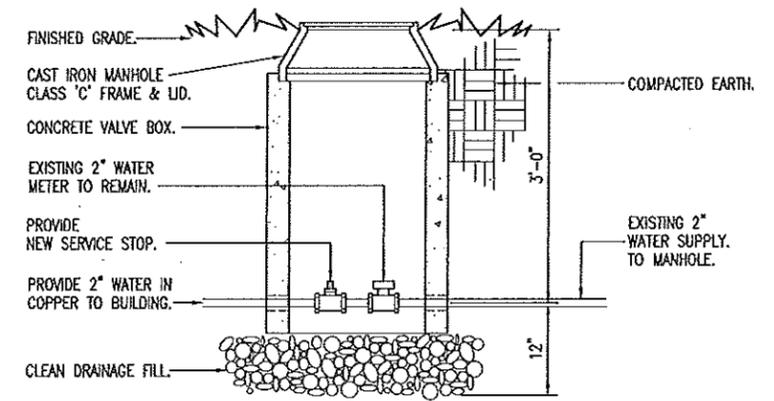
SYM.	FIXTURE	PIPE CONNECTION				REMARKS
		CW	HW	S&W	VENT	
WC	WATER CLOSET	1/2"		3"	2"	EQUAL TO AMERICAN STANDARD #2377.100 FLOOR MOUNT, PRESSURE ASSISTED, ELONGATED WATER-SAVER "CADET" WATER CLOSET. 16-1/2" HIGH 3109.016 BOWL, 4098.100 TANK. INCLUDE OPEN FRONT SEAT WITH LID. (WHITE)
U	URINAL	3/4"		1-1/2"	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 #7692.049, 22" x 18" ENAMELED, CAST IRON "LAKEWELL" SERVICE SINK WITH 8340.242 HERITAGE LEVER HANDLE FAUCET, AND 7798.176 P-TRAP.
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.
SS	SERVICE SINK	1/2"	1/2"	3"	2"	EQUAL TO AMERICAN STANDARD #7692.049, 22" x 18" ENAMELED, CAST IRON "LAKEWELL" SERVICE SINK WITH 8340.242 HERITAGE LEVER HANDLE FAUCET, AND 7798.176 P-TRAP.
DF	WATER COOLER	3/8"		1-1/4"		ELKAY, TWO STATION WALL MOUNT BARRIER-FREE WALL MOUNT MODEL VRCGRN18C OR EQUAL.
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 @ 24" ABOVE FINISHED FLOOR AS/WHERE REQUIRED.
HB-1	HOSE BIBB	3/4"				EXTERIOR - EQUAL TO WOODFORD MODEL 67 FREEZELESS WALL HYDRANT WITH 3/4" H.P.T. OUTLET, INTEGRAL VACUUM BREAKER-BACK FLOW PREVENTER. (N.I.C.)
HB-2	HOSE BIBB	3/4"				INTERIOR - EQUAL TO WOODFORD MODEL 26 WALL FAUCET WITH 3/4" H.P.T. OUTLET, INTEGRAL VACUUM BREAKER-BACKFLOW PREVENTER.
YH	YARD HYDRANT	2"				EXTERIOR - EQUAL TO WOODFORD MODEL MK 720 - WHEEL HANDLE HYDRANT WITH 2" FPT INLET, 2" FPT GALVANIZED TEE 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.
TD	TRENCH DRAIN			4"		EQUAL TO ZURN Z886 CHANNEL SLOPE TRENCH DRAIN SYSTEM WITH LOCK DOWN CAST IRON GRATE "CLASS C".
CB	CATCH BASIN			4"		EQUAL TO ZURN Z887-6x20 CATCH BASIN, WITH STAINLESS STEEL TRASH BUCKET AND LOCK DOWN CAST IRON GRATE "CLASS C".
OS	OIL SEPARATOR			4"		EQUAL TO CHAMPION PRECAST INC. 1,200 GALLON OIL & GREASE INTERCEPTOR STOCK STANDARD NO. 140-00218D. HEAVY DUTY PRECAST CONCRETE. PH: (573)384-5855.
DD	QUICK DISCONNECT					VERIFY SIZE WITH MODOT MECHANIC. MOUNT AT 60" A.F.F. ATTACH RIGIDLY TO COLUMNS.
CO	CLEAN OUT					BRASS WITH ADAPTER AND CAP EQUAL TO PIPE SIZE SHOWN.
AC	AIR COMPRESSOR					EQUAL TO INGERSOLL-RAND MODEL #2475N7.5, 7.5 HP, 80 GALLON VERTICAL, 24.0 (ACFM) CAPACITY. MAXIMUM PRESSURE 175 LBS. 230 V 1 PHASE WITH REFRIGERATED DRYER MODEL #DS25 SINGLE PHASE PROVIDE RUBBERIZED WASHERS AT EACH FLOOR MOUNT TO ACT AS A SHOCK ABSORBER. SIZE MOUNT AS REQUIRED. PROVIDE LINE FILTERS AS REQUIRED.

PLUMBING NOTES

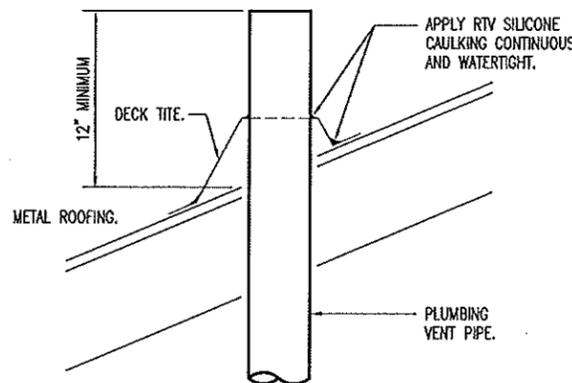
1. DRAWINGS AND DIAGRAMS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
2. PLUMBING SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE INTERNATIONAL PLUMBING CODE.
3. PLUMBING SHALL BE LOCATED AND PLACED UNDER THE SLAB PRIOR TO POURING OF CONCRETE. PIPING SHALL BE RUN IN SAND FILLED TRENCH UNDER THE BASE ROCK AND SLEEVED WITH PVC WHENEVER RUN THROUGH CONCRETE.
4. PROVIDE PLUMBING EQUIPMENT AND ACCESSORIES REQUIRED FOR COMPLETE AND OPERATIONAL PLUMBING SYSTEMS AS REQUIRED BY MANUFACTURER'S INSTRUCTIONS AND DIRECTIONS FOR SYSTEMS SPECIFIED.
5. PLUMBING VENTS ARE NOT SHOWN ON THE PLANS. ALL FIXTURES SHALL BE PROPERLY VENTED AS PER IBC PLUMBING CODE.
6. ROOF VENTS SHALL BE COMBINED WHEREVER IN COMPLIANCE WITH THE NATIONAL PLUMBING CODE TO MINIMIZE ROOF PENETRATIONS.
7. EXTERIOR BELOW-GROUND WATER DISTRIBUTION PIPING SHALL RUN A MINIMUM OF 36 INCHES BELOW FINISH GRADE.
8. PROVIDE SHUT OFF VALVES AT EACH FIXTURE.
9. PROVIDE SHOCK ABSORBERS AS REQUIRED AT EACH FAUCET.
10. PROVIDE 2" BACKFLOW PREVENTER AT WATER SUPPLY ENTRANCE.
11. SEE HVAC PLANS FOR GAS PIPING REQUIREMENTS.
12. CONTRACTOR TO PROVIDE 2" BACKFLOW PREVENTER AND PRESSURE REDUCING VALVE IN 114 WASH EQUIPMENT ROOM AS REQUIRED.
13. PROVIDE 3/8" COPPER WATER LINE TO REFRIGERATOR WITH SHUT-OFF AS REQUIRED 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.
14. CONTRACTOR TO PROVIDE CAST IRON VENT PIPING IN PLENUM AS REQUIRED BY CODE. SECURE AS REQUIRED.

LEGEND

HOT WATER	---	H
WATER	----	W
GAS	- - - -	G
SANITARY SEWER	----	SAN
STORM SEWER	----	S
COMPRESSED AIR	----	A
CLEANOUT	—C.O.	
FLOOR DRAIN	○ F.D.	
HOSE BIBB	▣ HB	
BALL VALVE	●	
GAS VALVE	■	

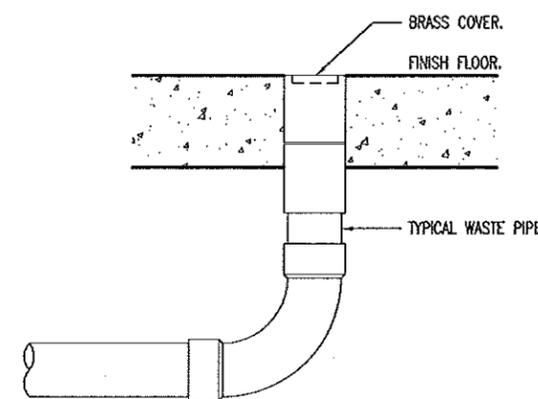


EXISTING WATER VALVE & DRAIN
SCALE: NONE



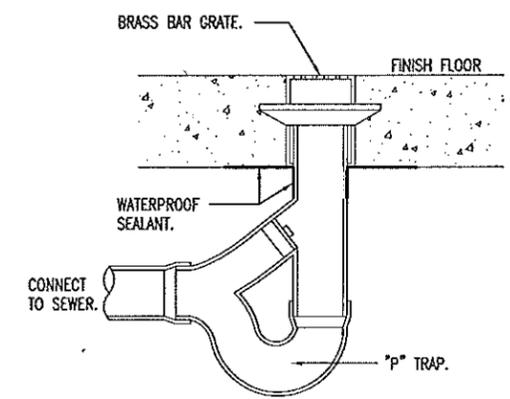
VENT THROUGH ROOF DETAIL

SCALE: NONE



FLOOR CLEANOUT DETAIL

SCALE: NONE



FLOOR DRAIN DETAIL

SCALE: NONE

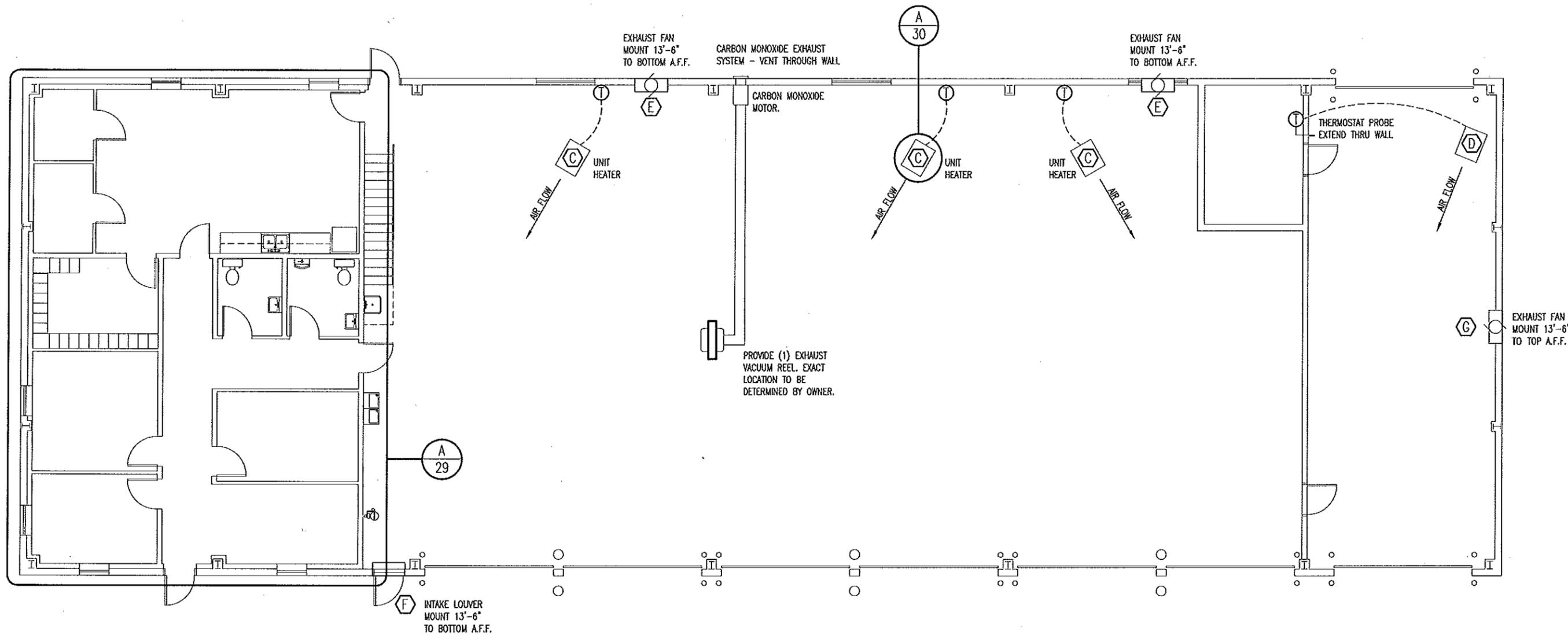
STATE OF MISSOURI
RECORD
DOUGLAS A. SCOTT
ARCHITECT
2/26/13
NUMBER
A-2009002624

PLUMBING NOTES & SCHEDULES

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



SEE HVAC SCHEDULE SHEET 30.

STATE OF MISSOURI
 DOUGLAS A. RECORD
 ARCHITECT
 NUMBER A-2009002624
 2/26/13

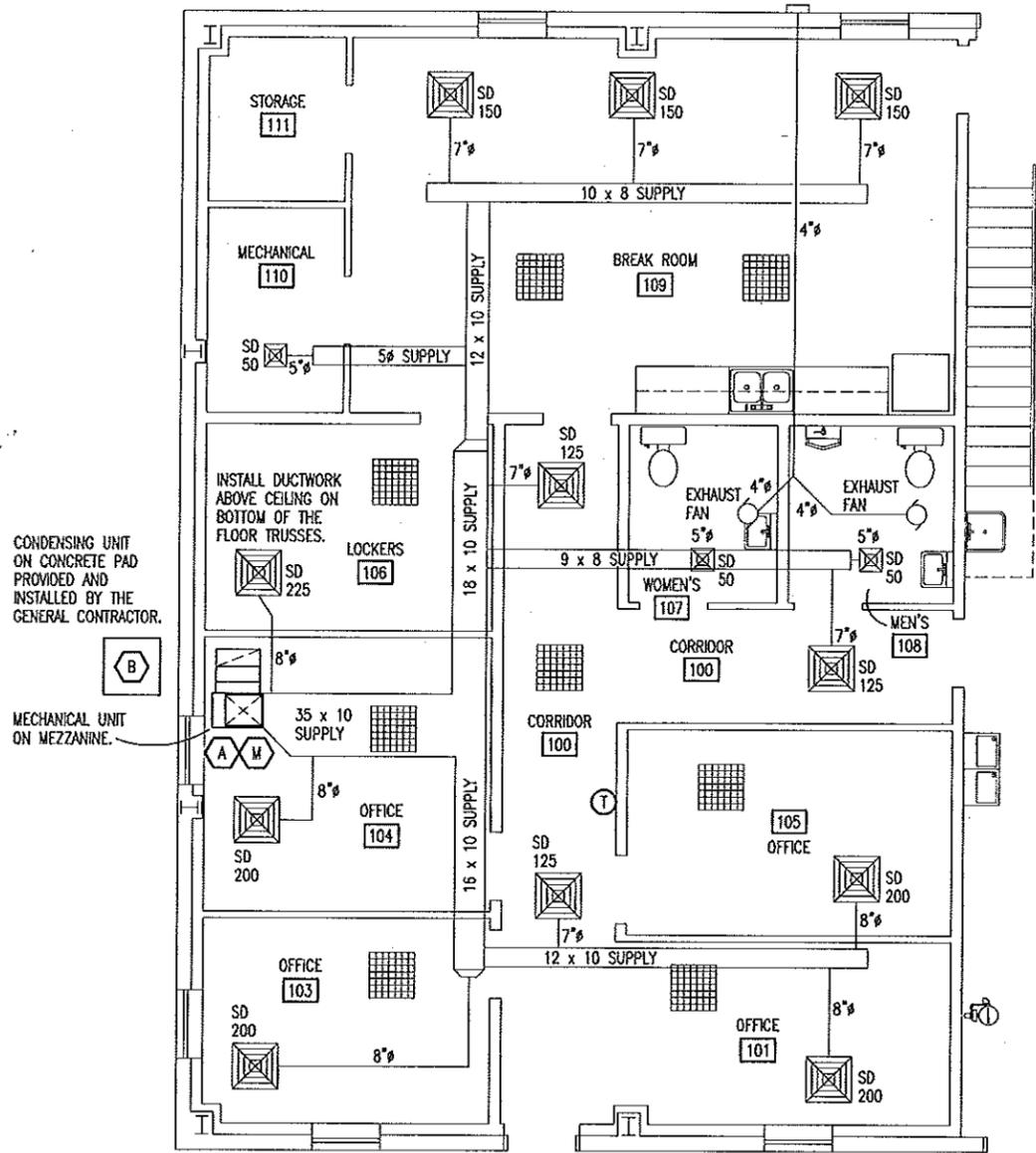
MECHANICAL PLAN

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COMBINE BATHROOM
EXHAUST FANS AND
VENT THROUGH WALL
WITH WALL CAP.

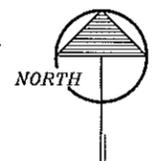


CONDENSING UNIT ON CONCRETE PAD PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR.

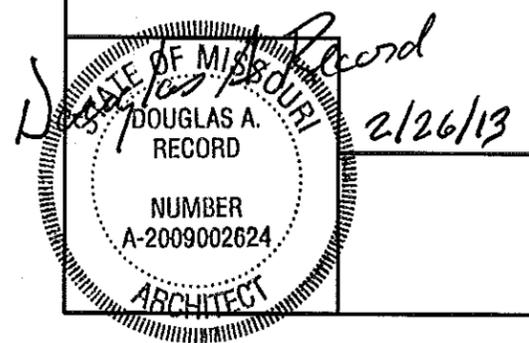


MECHANICAL UNIT ON MEZZANINE.

A
29 OFFICE MECHANICAL PLAN
SCALE: 1/8" = 1'-0"



SEE HVAC SCHEDULE SHEET 30.

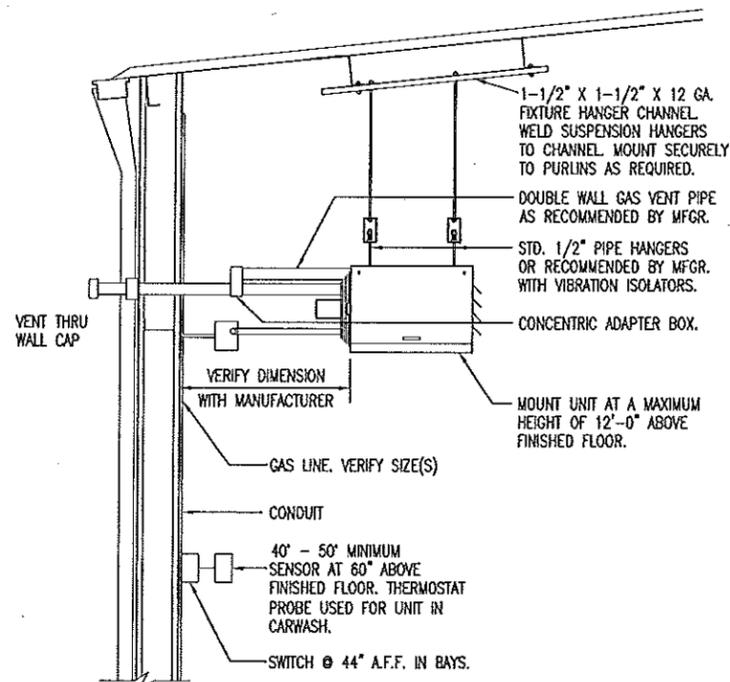


OFFICE MECHANICAL PLAN

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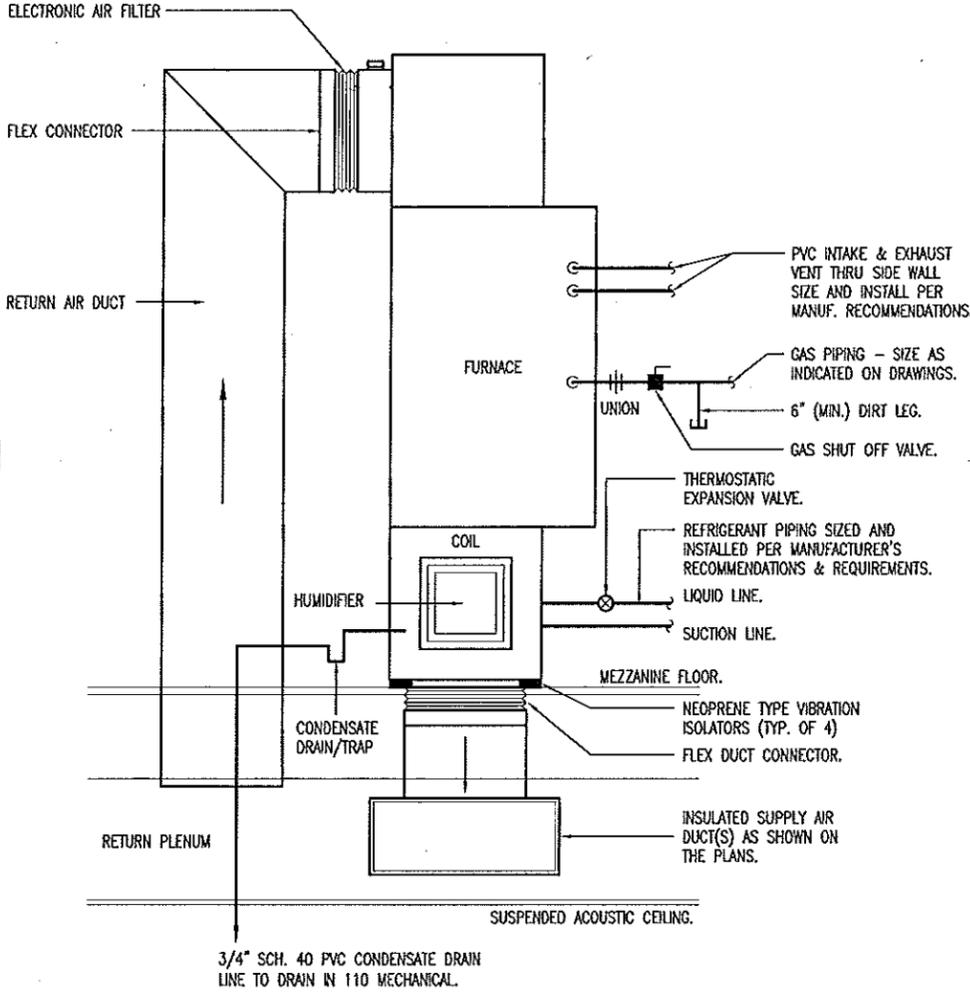
A UNIT HEATER INSTALLATION
 30 NOT TO SCALE

MECHANICAL SYMBOLS

- 24" x 24" SUPPLY DIFFUSER AND CFM.
- CEILING PLENUM RETURN AIR GRILLE.
- UNIT HEATER THERMOSTAT -- MOUNT @ 46" A.F.F.
- ROUND - DIMENSION SHOWN IS ID.

HVAC SCHEDULE						
SYM.	UNIT	MANUFACTURER	BTU OUTPUT	FUEL	VOLTAGE	REMARKS
A	GAS FURNACE/ FORCED AIR	CARRIER MODEL 59SC2120 OR EQUAL	120,000	GAS/ ELECTRIC	115	90+ AFUE, 2,000 CFM DOWN FLOW. COIL-CNPVP6024ACA 3" COMBINED TERMINATION KIT-KGVAT0601CVT
B	EVAPORATOR COIL	CARRIER MODEL CNPVP6024ACA 24ABC360	60,000	ELECTRIC	115 208	5 TON, 13 SEER, 1-PHASE CONDENSING UNIT.
C	GAS FIRED UNIT HEATER	REZNOR MODEL UDAP 75 OR EQUAL	63,000	NATURAL GAS	115	SINGLE BURNER COMBUSTION, DIRECT SPARK IGNITION, 100% LOCK-OUT & CL-1 STANDARD HEATING ONLY THERMOSTAT.
D	GAS FIRED UNIT HEATER	REZNOR MODEL UDAS 60 OR EQUAL	49,800	NATURAL GAS	115	409 STAINLESS STEEL HEAT EXCHANGERS, TOTALLY ENCLOSED FAN MOTOR, HORIZONTAL COMBUSTION AIR/VENT KIT INCLUDING CONCENTRIC ADAPTER.
E	36" x 36" SHUTTER MOUNT EXHAUST FAN W/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.
F	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.
G	16" DIA. CORROSION RESISTANT SHUTTER FAN	DAYTON 1BLJ1 OSHA GUARD OR EQUAL	2,005 CFM	ELECTRIC	115	FIBERGLASS SHUTTER & BLADES, 2.1 AMPS.
H	NOT USED					
I	NOT USED					
T	THERMOSTAT TP-PAC	CARRIER - EDGE OR EQUAL	--	--	--	7 DAY PROGRAMMABLE.
M	MANUALLY OPERATED DAMPER IN RETURN DUCT	--	--	--	--	2 - POSITION 5" Ø DUCT FOR EXTERNAL VENTILATION AIR. 125 CFM. PROVIDE ALUM. LOUVER WITH BUG SCREEN AS REQUIRED.

PROVIDE CONDENSATE TRAP AT ALL COILS AND PIPE TO NEAREST FLOOR DRAIN WITH 3/4" SCHEDULE 40 PVC. MECHANICAL EQUIPMENT IS SCHEDULED BY MANUFACTURER AND MODEL NUMBER FOR DESIGN INTENT ONLY, APPROVED EQUALS MAY BE SUBSTITUTED.



GAS FURNACE INSTALLATION
 NOT TO SCALE

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. SEE REFLECTED CEILING PLAN FOR EXACT DIFFUSER LOCATIONS.
7. PROVIDE BLOCKING TO HVAC DEVICES AS REQUIRED FOR A SECURE APPLICATION.
8. THERMOSTAT CONTROL FOR 113 TRUCK WASH TO BE LOCATED IN 114 WASH EQUIPMENT ROOM WITH PROBE LOCATED AS SHOWN.

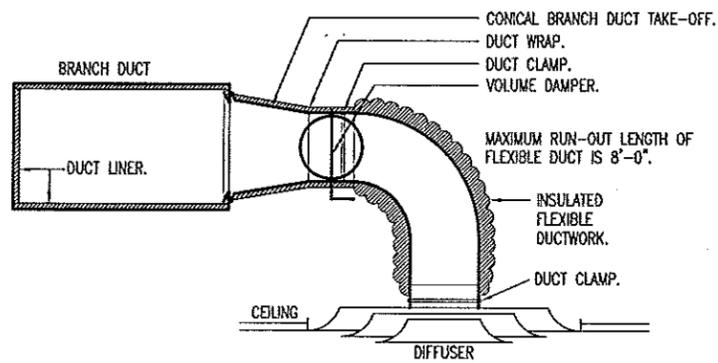
RECORD
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MECHANICAL NOTES & SCHEDULES

MISSOURI DEPARTMENT
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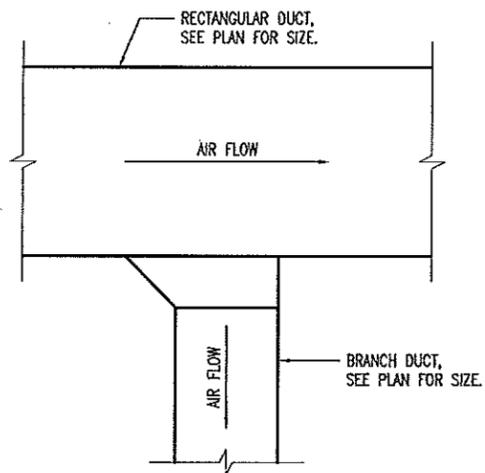
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LAY-IN DIFFUSER MOUNTING

NOT TO SCALE

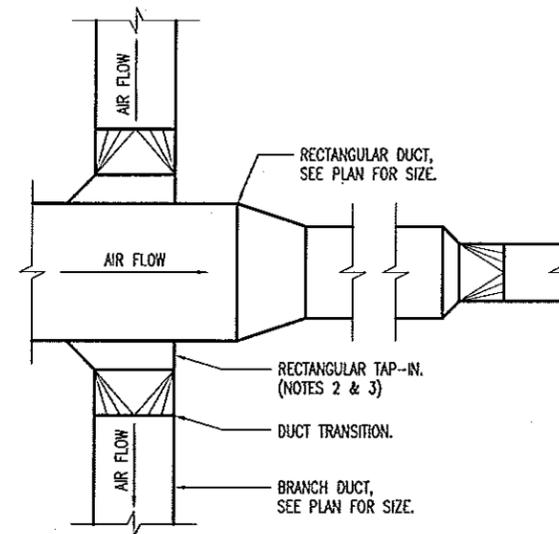


NOTES:

1. TAKEOFF ON SINGLE SIDE OR BOTH SIDES AS REQUIRED BY PLANS.
2. SEE SMACNA MANUAL FOR TAP-IN DETAILS.
3. CINCH LOCK CONNECTION TO DUCT SHALL HAVE CORNER SEALS.

BRANCH DUCT TAKE-OFF

NOT TO SCALE



NOTES:

1. TAKEOFF ON SINGLE SIDE OR BOTH SIDES AS REQUIRED BY PLANS.
2. CINCH LOCK CONNECTION TO DUCT SHALL HAVE CORNER SEALS.
3. EXTRACTORS, SCOOPS, OR DEFLECTORS THAT PROTRUDE INTO MAIN DUCT SHALL NOT BE USED.

DIFFUSER TAKE-OFF

NOT TO SCALE

A
31 MECHANICAL DETAILS

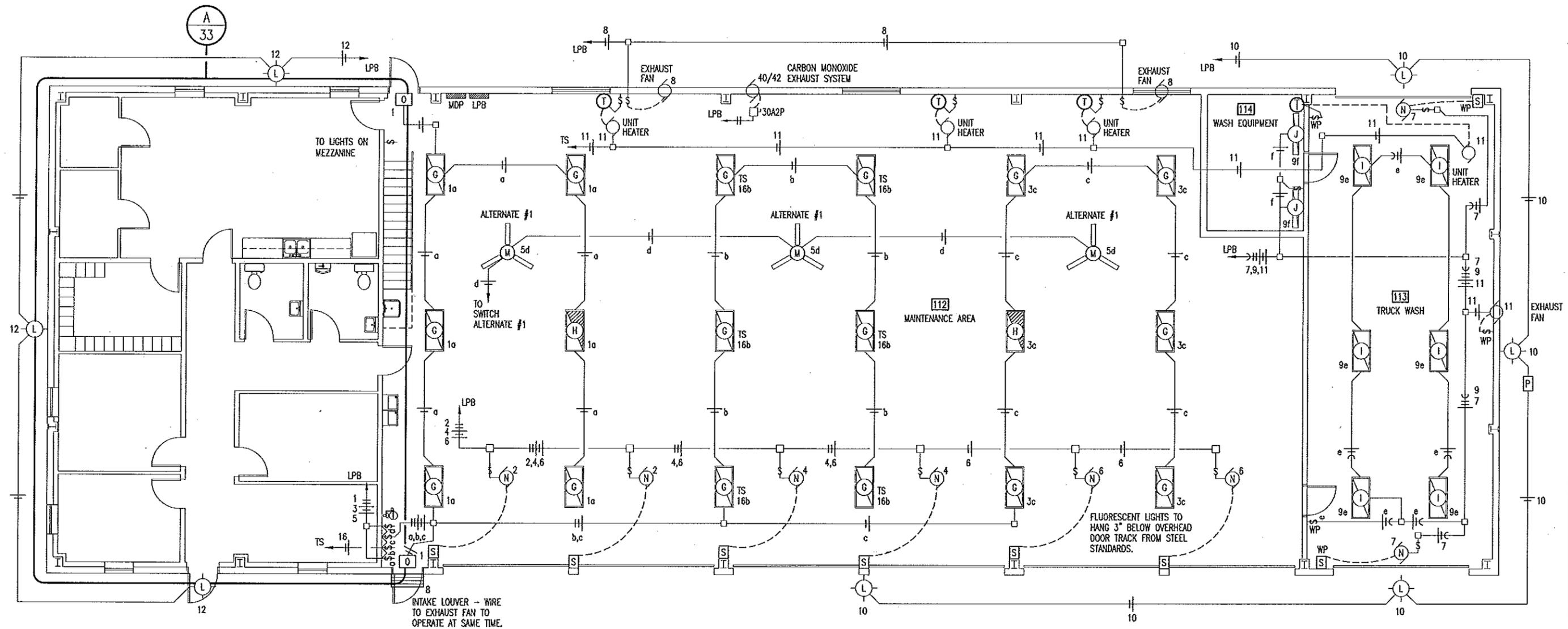
Approved
DOUGLAS A. RECORD
2/26/13
NUMBER
A-2009002624
ARCHITECT

MECHANICAL DETAILS

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

NEW MAINTENANCE COMPLEX
Kansas City District - Clay County, Kansas City, MO 64161
3800 North Skiles Avenue

DRAWN BY: LARRY CARVER
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Sheet
31 of 38



SEE ELECTRICAL SCHEDULE SHEET 37.

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

 NORTH

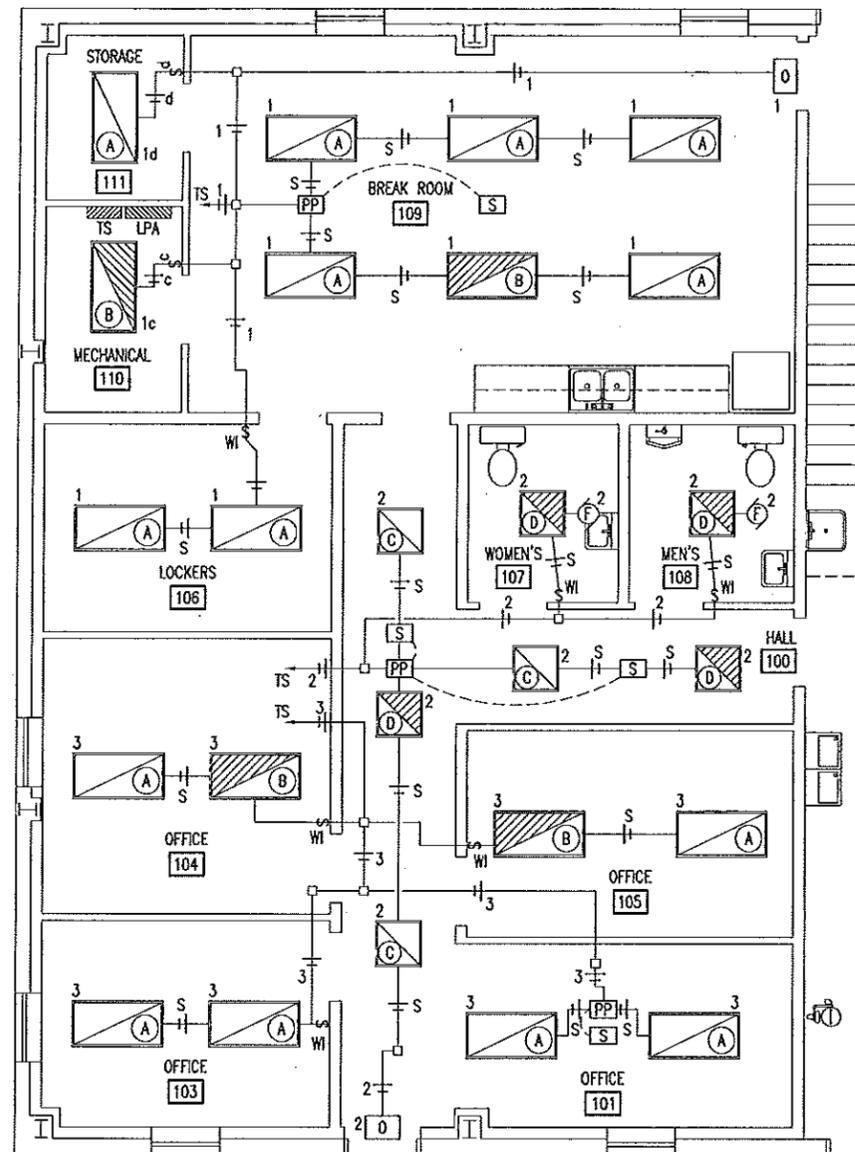
MISSOURI DEPARTMENT OF TRANSPORTATION
 DOUGLAS A. RECORD
 ARCHITECT
 NUMBER A-2009002624
 2/26/13

ELECTRICAL LIGHTING PLAN

MISSOURI DEPARTMENT
 OF TRANSPORTATION
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 FACILITIES MANAGEMENT

NEW MAINTENANCE COMPLEX
 Kansas City District - Clay County, Kansas City, MO 64161
 3800 North Skiles Avenue

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SEE ELECTRICAL SCHEDULE SHEET 37.

A OFFICE LIGHTING PLAN
 33 SCALE: 1/8" = 1'-0"



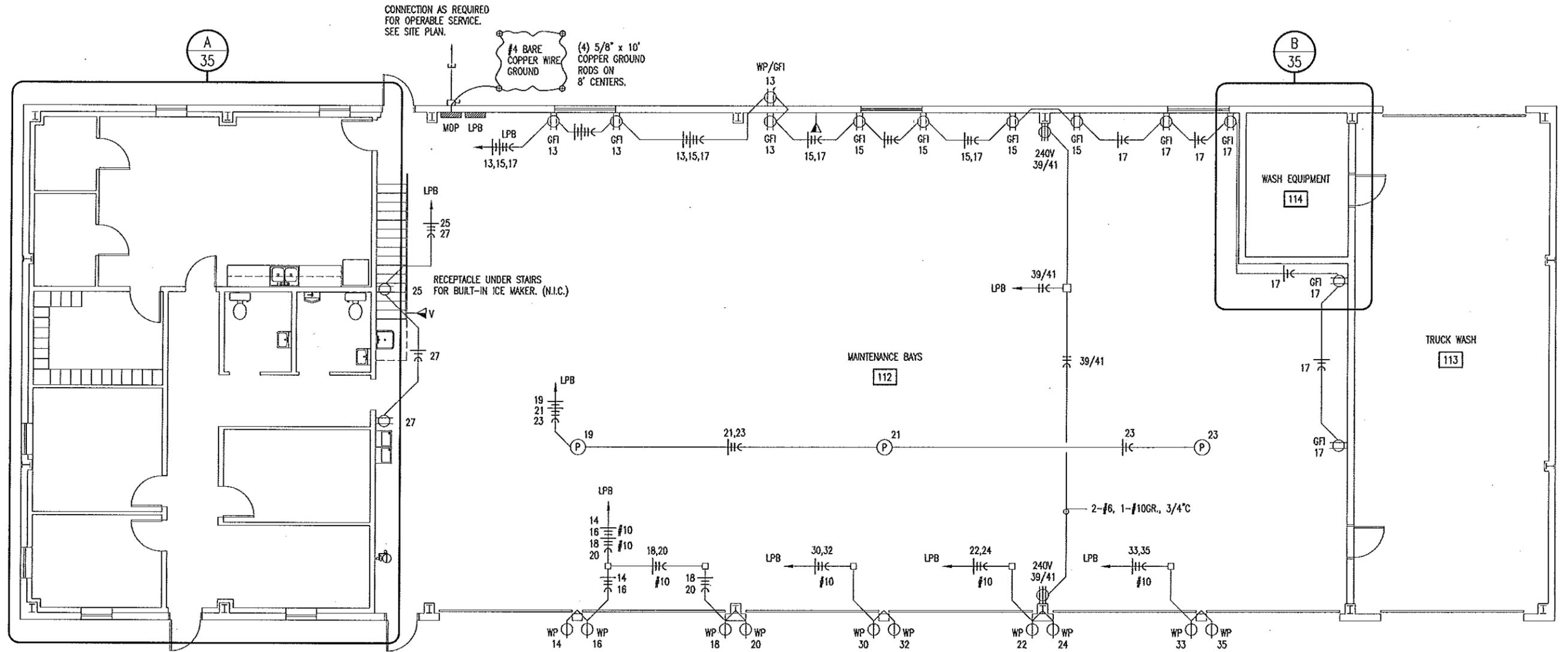
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 DOUGLAS A. RECORD
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 ARCHITECT
 2/26/13

OFFICE LIGHTING PLAN

MISSOURI DEPARTMENT OF TRANSPORTATION
 DIVISION OF GENERAL SERVICES
 FACILITIES MANAGEMENT

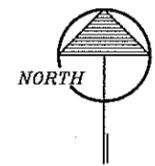
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 3800 North Skiles Avenue

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 Sheet 33 of 38



SEE ELECTRICAL SCHEDULE SHEET 37.

A
34
ELECTRICAL POWER PLAN
SCALE: 3/32" = 1'-0"



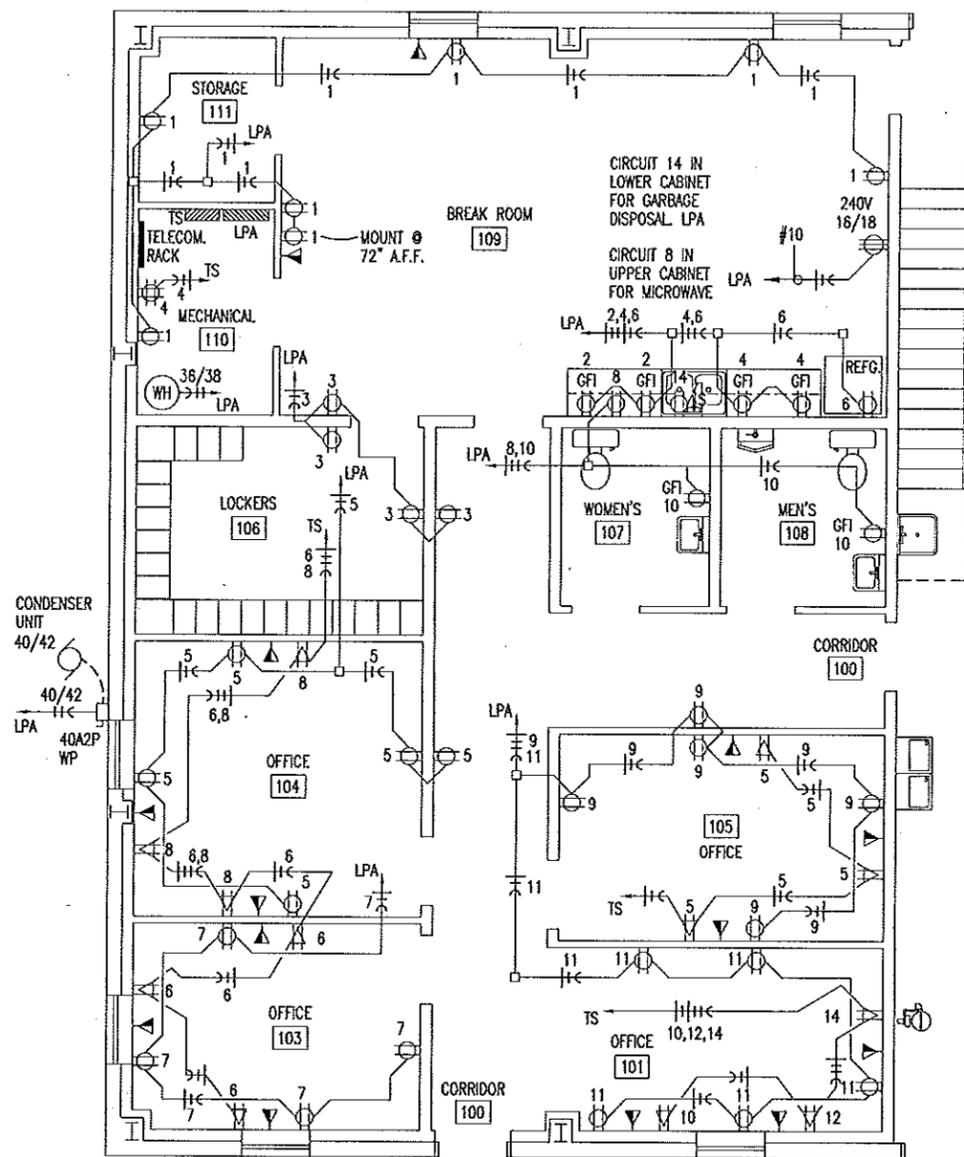
STATE OF MISSOURI
RECORD
DOUGLAS A. RECORD
NUMBER
A-2009002624
ARCHITECT
2/26/13

ELECTRICAL POWER PLAN

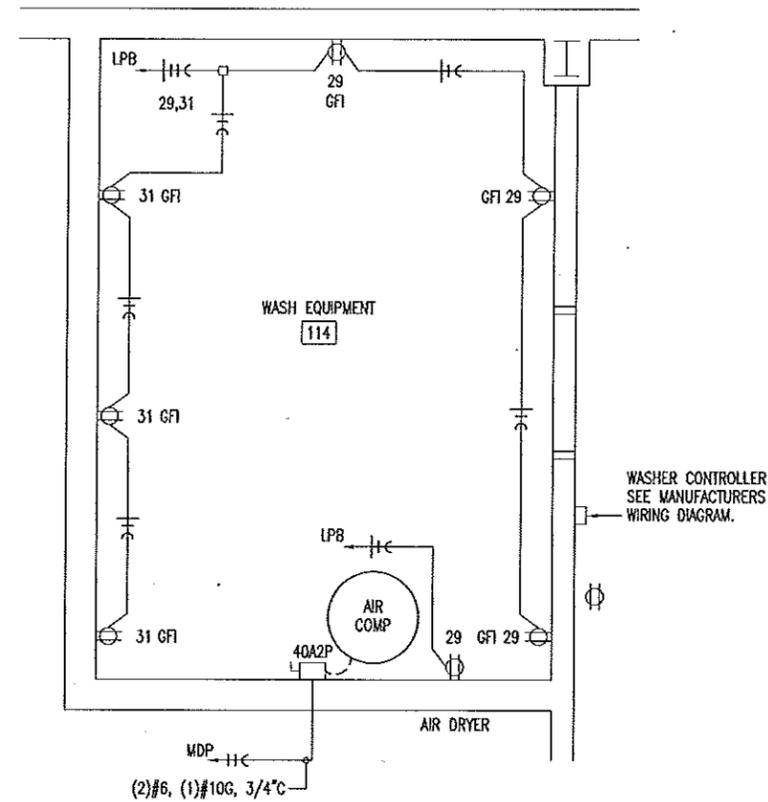
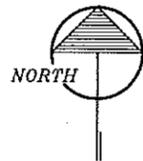
MISSOURI DEPARTMENT
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FACILITIES MANAGEMENT

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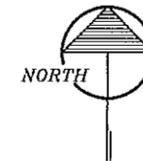
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A
35
OFFICE POWER PLAN
SCALE: 1/8" = 1'-0"



B
35
WASH EQUIPMENT POWER PLAN
SCALE: 1/4" = 1'-0"



SEE ELECTRICAL SCHEDULE SHEET 37.

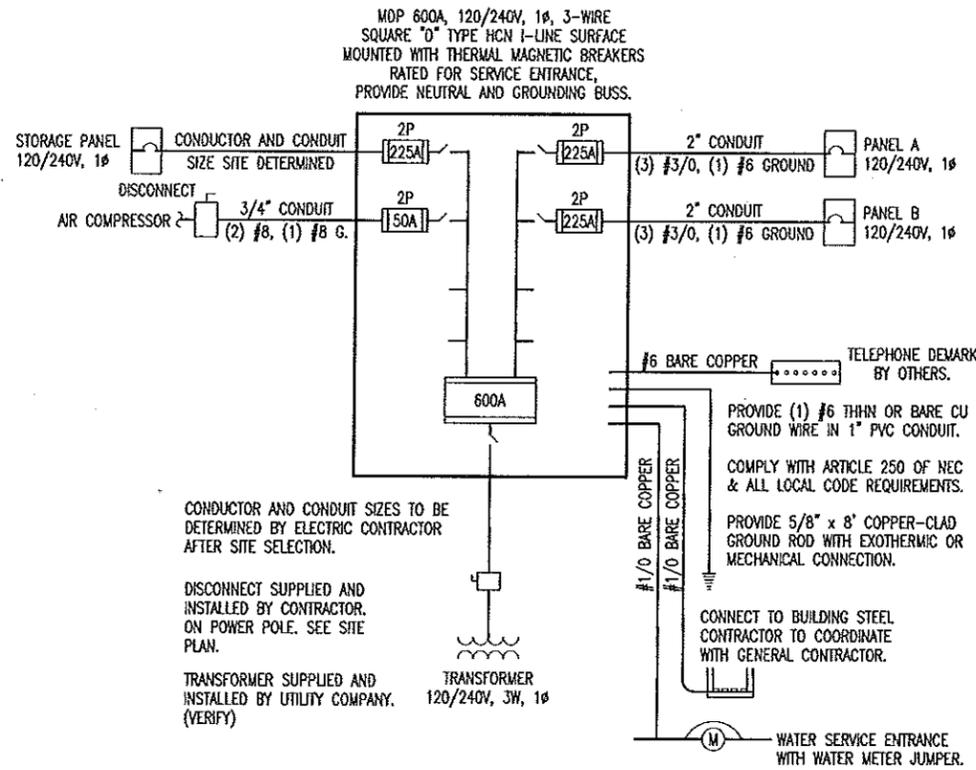
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OFFICE POWER PLAN

MISSOURI DEPARTMENT OF TRANSPORTATION
 DIVISION OF GENERAL SERVICES
 FACILITIES MANAGEMENT

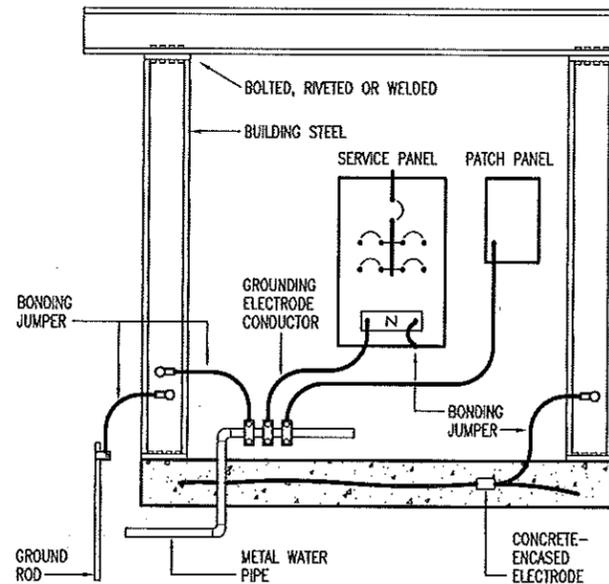
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POWER DISTRIBUTION

NTS



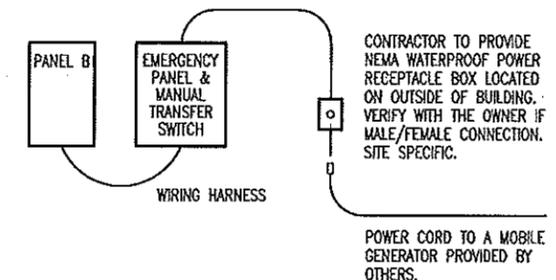
GROUNDING SYSTEM

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 20994 VA B PHASE 20030 VA TOTAL 41024 VA 171 A		
CIR	SERVICE	VA	BKR	BKR	VA	SERVICE	CIR		
1	109, 110, 111 - RECEPTACLES	1260	20A1P	A	20A1P	360	109 - RECEPTACLES	2	
3	100, 106, 109 - RECEPTACLES	900	20A1P	B	20A1P	360	109 - RECEPTACLES	4	
5	100, 104 - RECEPTACLES	900	20A1P	A	20A1P	600	109 - REFRIGERATOR	6	
7	103 - RECEPTACLES	720	20A1P	B	20A1P	800	109 - MICROWAVE	8	
9	100, 105 - RECEPTACLES	900	20A1P	A	20A1P	360	107, 108 - GFI RECEPTACLES	10	
11	100, 101 - RECEPTACLES	720	20A1P	B	20A1P	960	EXTERIOR-FUEL ISLAND LIGHTS	12	
13	SPARE		20A1P	A	20A1P	972	GARBAGE DISPOSAL	14	
15	MEZZANINE LIGHTS	828	20A1P	B	30A2P	2250	RANGE	16	
17	MEZZANINE RECEPTACLES	900	20A1P	A		2250		18	
19	SPARE		20A1P	B	20A1P		SPARE	20	
21				A				22	
23				B				24	
25				A				26	
27				B				28	
29				A				30	
31				B				32	
33				A				34	
35				B	30A2P	2600	110 - WATER HEATER	36	
37				A		2600		38	
39	110 - EMERGENCY PANEL & TRANSFER SWITCH	7500	100A 2P	B	30A2P	2392	EXTERIOR - CONDENSER UNIT	40	
41		7500		A		2392		42	

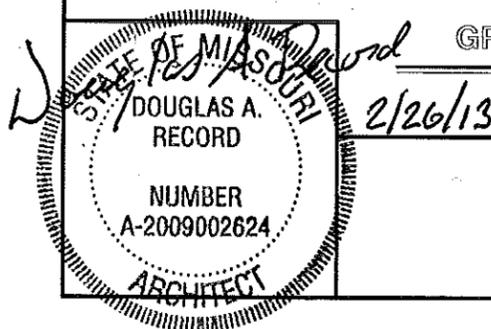
EMERGENCY PANEL									
TRANSFER SWITCH EQUAL TO GEN/TRAN MODEL 501210 16 CIRCUIT, 15000 WATT			CONNECTED LOAD A PH. 6509VA B PH. 6172VA TOTAL 12681VA						
CIR	SERVICE	VA	BKR	BKR	VA	SERVICE	CIR		
1	106, 109, 110, 111 - LIGHTS	1128	20A1P	A	20A1P	828	100, 107, 108 - LIGHTS/FANS	2	
3	101,102,103,104,105 - LIGHTS	928	20A1P	B	20A1P	360	110 - TELECOMMUNICATIONS	4	
5	105 - DEDICATED POWER	540	20A1P	A	20A1P	540	103 - DEDICATED POWER	6	
7	SPARE	-	20A1P	B	20A1P	540	104 - DEDICATED POWER	8	
9	200 - AHU	1277	20A1P	A	20A1P	1320	101 - FAX MACHINE	10	
11	112, 113 - UNIT HEATERS	1584	20A1P	B	20A1P	1320	101 - FAX MACHINE	12	
13	EXTERIOR - FUEL PUMPS	696	20A1P	A	20A1P	180	101 - DEDICATED POWER	14	
15	SPARE	-	20A1P	B	20A1P	1440	112 - LIGHTS	16	

SERVICE PANEL LPB									
MAIN BUS: 400A MLO VOLTS: 240/120, 1PH, 3-WIRE BUS MATERIAL: COPPER MOUNTING: SURFACE			SQUARE "D" NOOD OR EQUAL W/ NEUTRAL BUS & GROUNDING BUS CIRCUIT BREAKERS BOLT-IN 10000 AIC				CONNECTED LOAD A PHASE 21571 VA B PHASE 20818 VA TOTAL 42389 VA 177 A		
CIR	SERVICE	VA	BKR	BKR	VA	SERVICE	CIR		
1	112 - LIGHTS	1440	30A1P	A	30A1P	2162	112 - OHD OPENERS	2	
3	112 - LIGHTS	1440	20A1P	B	30A1P	2162	112 - OHD OPENERS	4	
5	112 - CEILING FANS	468	30A1P	A	30A1P	2162	112 - OHD OPENERS	6	
7	113 - OHD OPENERS	2162	30A1P	B	20A1P	1199	112 - EXHAUST FAN/LOUVER	8	
9	112, 113, 114 - LIGHTS	920	20A1P	A	20A1P	868	EXTERIOR - LIGHTS	10	
11	113 - EXHAUST FAN	1176	20A1P	B	20A1P	651	EXTERIOR - LIGHTS	12	
13	112, EXT - RECEPTACLE	720	20A1P	A	30A1P	1000	EXTERIOR - RECEPTACLE	14	⊗
15	112 - RECEPTACLE	720	20A1P	B	30A1P	1000	EXTERIOR - RECEPTACLE	16	⊗
17	112 - RECEPTACLE	720	20A1P	A	30A1P	1000	EXTERIOR - RECEPTACLE	18	⊗
19	112 - DROP CORDS	180	20A1P	B	30A1P	1000	EXTERIOR - RECEPTACLE	20	⊗
21	112 - DROP CORDS	180	20A1P	A	30A1P	1000	EXTERIOR - RECEPTACLE	22	⊗
23	112 - DROP CORDS	180	20A1P	B	30A1P	1000	EXTERIOR - RECEPTACLE	24	⊗
25	112 - ICE MACHINE	800	20A1P	A	20A1P	483	COMPRESSOR DRYER	26	
27	112 - DRINKING FOUNTAIN	480	20A1P	B	20A1P		SPARE	28	
29	114 - RECEPTACLE	720	20A1P	A	20A1P	1000	EXTERIOR - RECEPTACLE	30	⊗
31	114 - RECEPTACLE	540	20A1P	B	20A1P	1000	EXTERIOR - RECEPTACLE	32	⊗
33	EXTERIOR - RECEPTACLE	1000	30A1P	A	20A1P		SPARE	34	
35	EXTERIOR - RECEPTACLE	1000	30A1P	B	20A1P		SPARE	36	
37				A				38	
39	100 - WELDER OUTLET	4100	50A2P	B	20A2P	828	113 - CARBON MONOXIDE	40	
41		4100		A		828		42	

⊗ CIRCUIT BREAKER SHALL BE GFI RATED



TRANSFER SWITCH INSTALLATION

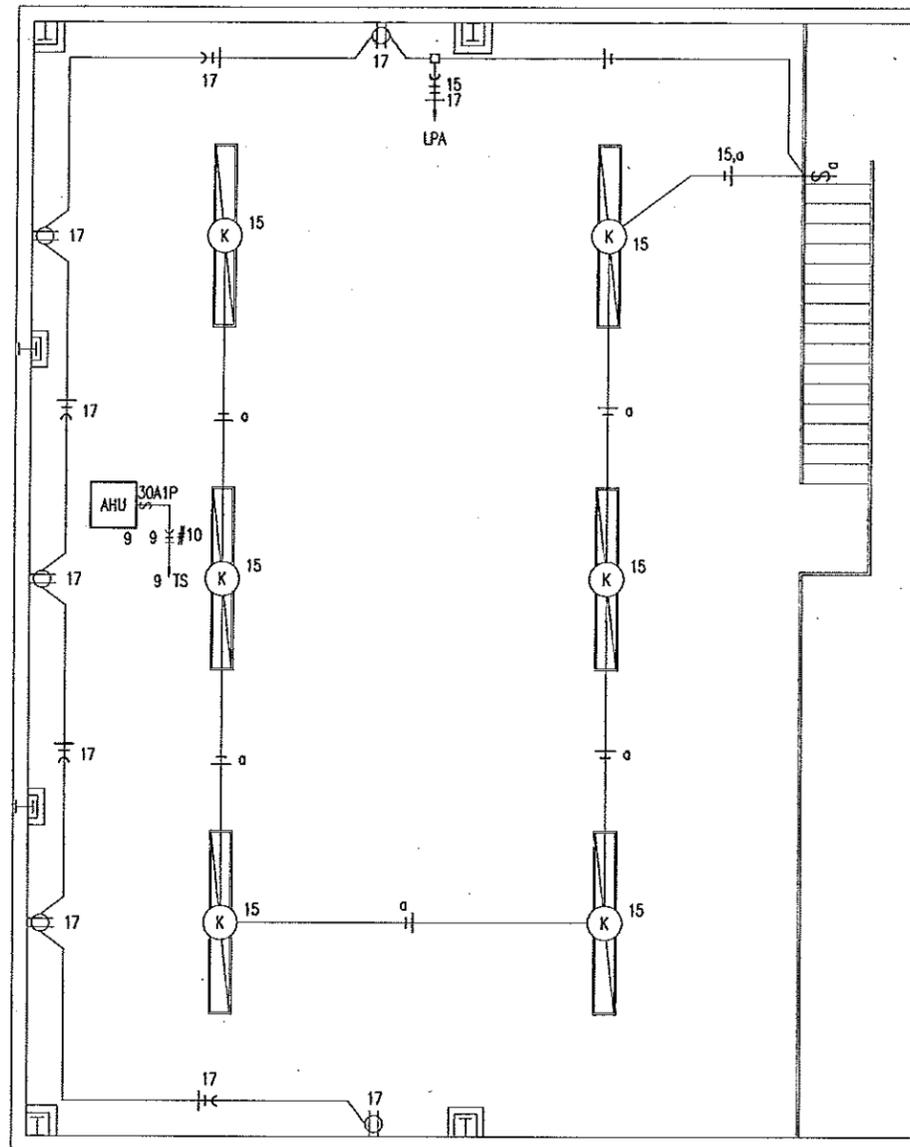


POWER DISTRIBUTION PANELS

MISSOURI DEPARTMENT OF TRANSPORTATION
DIVISION OF GENERAL SERVICES FACILITIES MANAGEMENT

NEW MAINTENANCE COMPLEX
Kansas City District - Clay County, Kansas City, MO 64161
3800 North Skiles Avenue

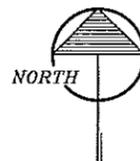
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CHECKED BY: DOUG RECORD
DATE: 3-25-13
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MEZZANINE ELECTRICAL PLAN

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



ELECTRIC SCHEDULE

MANUF.	MODEL	LAMPS	TYPE	W	MNT	REMARKS
WILLIAMS	50G-S24-328-T5S-RPC12125-EB3-UNV	3	FLUORESCENT	28	CLG	24" x 48" STATIC TROFFER FIXTURE, WITH FULL DOOR FRAME, NO REVEAL, WHITE ALUMINUM, AND ELECTRONIC BALLAST.
WILLIAMS	50G-S24-328-T5S-RPC12125-EM/700-EB3-UNV	3	FLUORESCENT	28	CLG	24" x 48" STATIC TROFFER FIXTURE, WITH FULL DOOR FRAME, NO REVEAL, WHITE ALUMINUM, ELECTRONIC BALLAST, EMERGENCY BATTERY PACK.
WILLIAMS	50G-S22-314-T5S-RPC12125-EB2/1-UNV	3	FLUORESCENT	14	CLG	24" x 24" STATIC TROFFER FIXTURE, WITH FULL DOOR FRAME, NO REVEAL, WHITE ALUMINUM, AND ELECTRONIC BALLAST.
WILLIAMS	50G-S22-414-T5S-RPC12125-EM Back Mount EMLP6-EM2/2-UNV	4	FLUORESCENT	14	CLG	24" x 24" STATIC TROFFER FIXTURE, WITH FULL DOOR FRAME, NO REVEAL, WHITE ALUMINUM, ELECTRONIC BALLAST, EMERGENCY BATTERY PACK.
	NOT USED.					
BROAN	BROAN VENTILATOR GRAINGER #4C376 OR EQUAL				CLG	VENTED THROUGH WALL AS SHOWN ON THE ELEVATIONS REQUIRED. STEEL SHUTTER TO BE WEATHER STRIPPED. 70 CFM.
WILLIAMS	GL-4-454T5H-HUB3/4" EB4-120	4	FLUORESCENT	54	CLG	14" x 48" LOW PROFILE FIXTURE, WITH WHITE ALUMINUM HOUSING, HIGH SPECULAR ALUMINUM REFLECTOR AND ELECTRONIC BALLAST.
WILLIAMS	GL-4-454T5H-HUB3/4" EM7-EB4-120	4	FLUORESCENT	54	CLG	14" x 48" FIXTURE, WITH WHITE ALUMINUM HOUSING, HIGH SPECULAR ALUMINUM REFLECTOR ELECTRONIC BALLAST AND EMERGENCY BATTERY.
WILLIAMS	GLS-4-454T5H-FCHA118-VBY3-EB4-UNV	4	FLUORESCENT	54	CLG	15" x 48" DAMP LOCATION, CHAIN SUSPENDED FIXTURE, WITH ALUMINUM HOUSING, CLEAR ACRYLIC LENS AND ELECTRONIC BALLAST.
LITHONIA	DMW 2 48HO ARDP 120 ES	2	FLUORESCENT	32	WALL	48" LONG SURFACE MOUNT FLUORESCENT LIGHT FIXTURE, WITH PAINTED STEEL HOUSING, AND ELECTRONIC BALLAST.
LITHONIA	T2UN 4 54T5HO 120 ES (2) W62UN	4	FLUORESCENT	54	CLG	96" LONG SURFACE MOUNT FLUORESCENT LIGHT FIXTURE, WITH PAINTED STEEL HOUSING, ELECTRONIC BALLAST AND WIRE GUARD.
WILLIAMS	PGW-175H-128-2	1	METAL HALIDE	175	WALL	EXTERIOR, SURFACE MOUNT LIGHT FIXTURE, WITH ALUMINUM HOUSING AND IMPACT RESISTANT ONE-PIECE, WRAP-AROUND LENS.
DAYTON	4C853 ALTERNATE #1.				CLG	SINGLE-SPEED, THREE-BLADE, HEAVY DUTY COMMERCIAL CEILING FAN.
	OVERHEAD DOOR OPERATOR				WALL	230V, 1-PH, JACK SHAFT-TYPE COMMERCIAL OVERHEAD DOOR OPERATOR. SEE SPECIFICATION SECTION 08720.
INFINITY	EXIT-R-EM-WHT-PCI				WALL	EXIT LIGHT, SELF-CONTAINED, COMPACT, LOW PROFILE DESIGN, WHITE THERMOPLASTIC HOUSING, NI-CAD BATTERY PROVIDING 90 MINUTE OPERATION.
	HOSE REEL				CLG	OWNER SUPPLIED AND CONTRACTOR INSTALLED.
	NOT USED.					
	OVERHEAD DOOR CONTROL				WALL	THREE BUTTON OVERHEAD DOOR CONTROL AS SUPPLIED BY OVERHEAD DOOR MANUFACTURER. SEE SPECIFICATION SECTION 08720.
TORK	2001				WALL	120V PHOTO ELECTRIC CONTROL OF EXTERIOR LIGHTS.

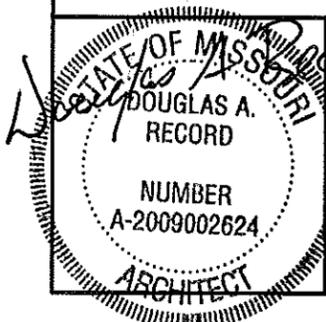
ELECTRICAL FIXTURES AND EQUIPMENT ARE SCHEDULED BY MANUFACTURER AND MODEL NUMBER FOR DESIGN INTENT ONLY, APPROVED EQUALS MAY BE SUBSTITUTED.

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 FANS ARE 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. ELECTRICAL 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.

LEGEND

- § SINGLE POLE SWITCH, FLUSH MOUNTED IN FINISHED AREAS @ 48" A.F.F. SINGLE POLE SWITCH, SURFACE MOUNTED IN UNFINISHED AREAS @ 48" A.F.F.
- §3 3-WAY SWITCH, FLUSH MOUNTED IN FINISHED AREAS @ 48" A.F.F. 3-WAY SWITCH, SURFACE MOUNTED IN UNFINISHED AREAS @ 48" A.F.F.
- §WP SINGLE POLE SWITCH, MOUNT IN FS BOX WITH HUBBELL HBL 7420 COVER.
- ⊕ 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. DUPLEX RECEPTACLE SURFACE MOUNTED IN UNFINISHED AREAS @ 42" A.F.F.
- ⊕ DEDICATED RECEPTACLE FLUSH MOUNTED IN FINISHED AREAS @ 18" A.F.F. TO BOTTOM OF OUTLET. DEDICATED RECEPTACLE SURFACE MOUNTED IN UNFINISHED AREAS @ 42" A.F.F.
- ⊕ GFI DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTER.
- ⊕ WP DUPLEX RECEPTACLE MOUNTED IN FS BOX WITH HUBBELL HBL5221 COVER.
- ⊕ SINGLE RECEPTACLE FLUSH MOUNTED IN FINISHED AREAS @ 18" A.F.F. TO BOTTOM OF OUTLET. SINGLE RECEPTACLE SURFACE MOUNTED IN UNFINISHED AREAS @ 42" A.F.F.
- ⊕ WP SINGLE RECEPTACLE MOUNTED IN FS BOX WITH HUBBELL HBL7423 COVER.
- ⊕ 50A WELDER RECEPTACLE SURFACE MOUNTED 42" A.F.F., MOUNT IN 4" SQUARE BOX WITH RAISED COVER.
- ∇ VOICE AND DATA OUTLET FLUSH MOUNTED IN FINISHED AREAS @ 18" A.F.F. TO BOTTOM OF OUTLET. VOICE AND DATA OUTLET SURFACE MOUNTED IN UNFINISHED AREAS @ 42" A.F.F.
- ∇ V VOICE OUTLET FLUSH MOUNTED IN FINISHED AREAS @ 18" A.F.F. TO BOTTOM OF OUTLET. VOICE OUTLET SURFACE MOUNTED IN UNFINISHED AREAS @ 42" A.F.F.
- NO FUSED DISCONNECT SWITCH.
- FUSED DISCONNECT SWITCH.
- CEILING OUTLET BOX, SIZE FOR WIRE, FILL ACCORDING TO ARTICLE 314-16 OF THE N.E.C.
- JUNCTION BOX, SIZE FOR WIRE, FILL ACCORDING TO ARTICLE 314-16 OF THE N.E.C.
- #12 COPPER NEUTRAL CONDUCTOR UNLESS NOTED.
- #12 COPPER PHASE CONDUCTORS UNLESS NOTED.
- 1/2" EMT UNLESS NOTED.
- #12 COPPER GROUNDING CONDUCTOR UNLESS NOTED.



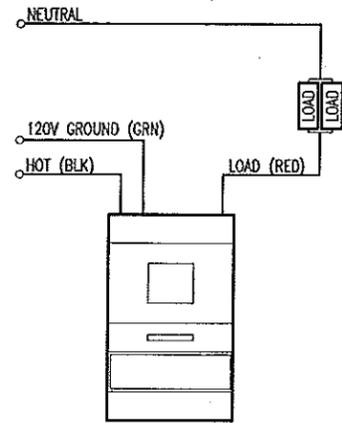
MEZZ. ELECTRICAL, NOTES & SCHEDULES

MISSOURI DEPARTMENT OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

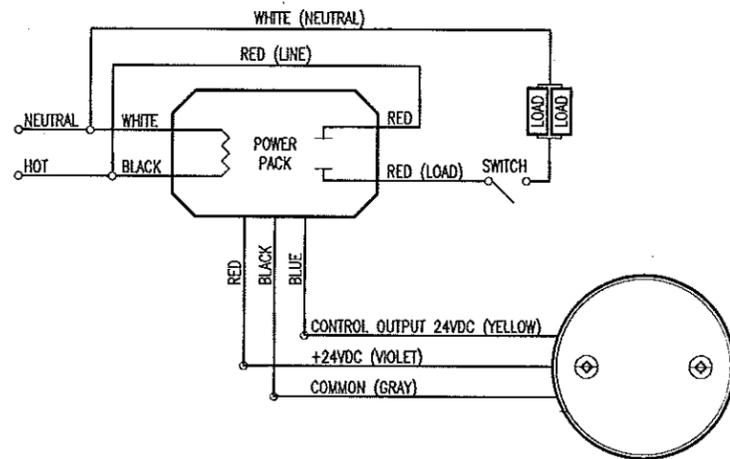
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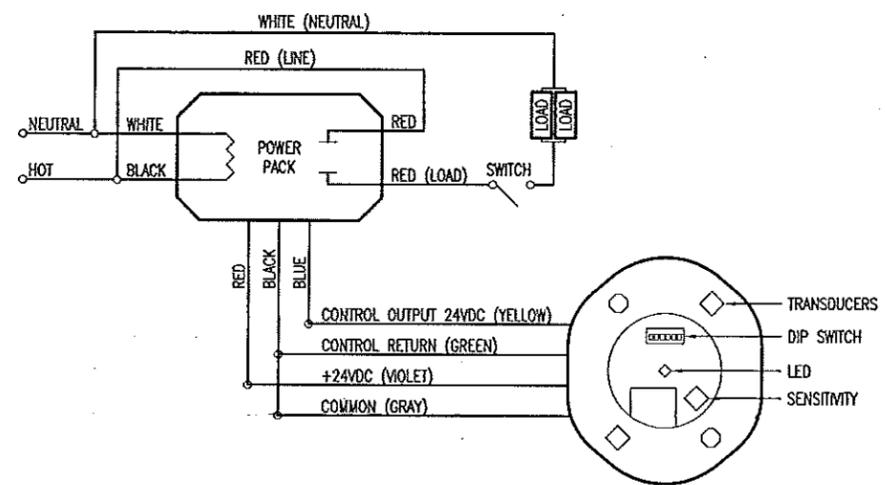
OCCUPANCY SENSOR SCHEDULE		
ROOM	MODEL	MOUNT
100 - HALL	WT-2250	CEILING
101 - OFFICE	WI-200	WALL
103 - OFFICE	WI-200	WALL
104 - OFFICE	WI-200	WALL
105 - OFFICE	WI-200	WALL
106 - LOCKERS	WI-200	WALL
107 - WOMEN'S	WI-200	WALL
108 - MEN'S	WI-200	WALL
109 - BREAK ROOM	UT-300	CEILING
ALL MODELS BASED ON WATT STOPPER		



WI-200 WIRING



UT-300 WIRING



WT-2250 WIRING

A ELECTRIC SENSORS
38 NOT TO SCALE

Record
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 2/26/13

ELECTRIC SENSORS

MISSOURI DEPARTMENT
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