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MISSOURI DEPARTMENT OF TRANSPORTATION

St. Charles Maintenance Building Renovation
St. Louis District
2360 South Old Highway 94
St. Charles County

CODE REQUIREMENTS

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

Douglas A. Record
2/5/13

COVER SHEET

MISSOURI DEPARTMENT
OF TRANSPORTATION

DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

ST. CHARLES MAINTENANCE BUILDING RENOVATION
St. Louis District
St. Charles County

DESIGN BY: LARRY CARVER

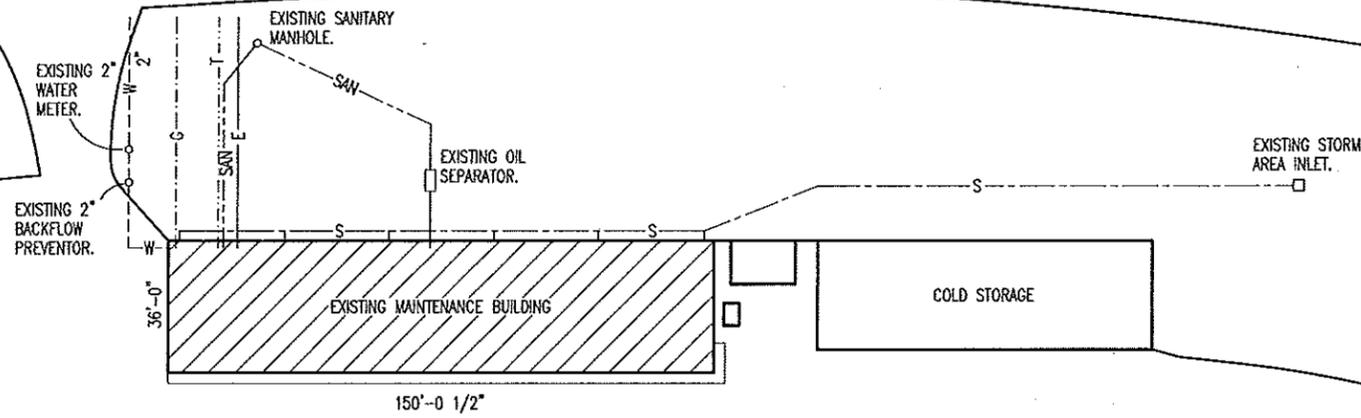
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DATE: 2-8-13

Sheet

1 of 24

SOUTH OLD HIGHWAY 94



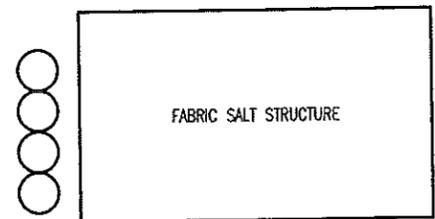
GRADING NOTES

CONTRACTOR WILL BE RESPONSIBLE FOR:

- ALL BACK FILL MATERIAL INSIDE AND OUTSIDE NEW BUILDING
- CRUSHED ROCK BASE UNDER FLOOR SLAB.
- ALL FILL, BACK FILL & SUB GRADE MATERIAL (IF SETTLING HAS OCCURRED) AS REQUIRED.
- PROVIDE TOP SOIL, FERTILIZE, SEED AND STRAW AT ALL THE LAWN AREAS DISTURBED DURING CONSTRUCTION.
- VERIFYING ALL UTILITY LOCATIONS BEFORE CONSTRUCTION.
- CONTRACTOR SHALL DISCARD ALL DEBRIS OFF-SITE AS REQUIRED.

LEGEND (EXISTING)

GAS	-----	G
STORM SEWER	-----	S
WATER	-----	W
TELE/DATA	-----	T
ELECTRIC 1 PHASE	-----	E
SANITARY SEWER	-----	SAN
LINE OF PAVING	-----	



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



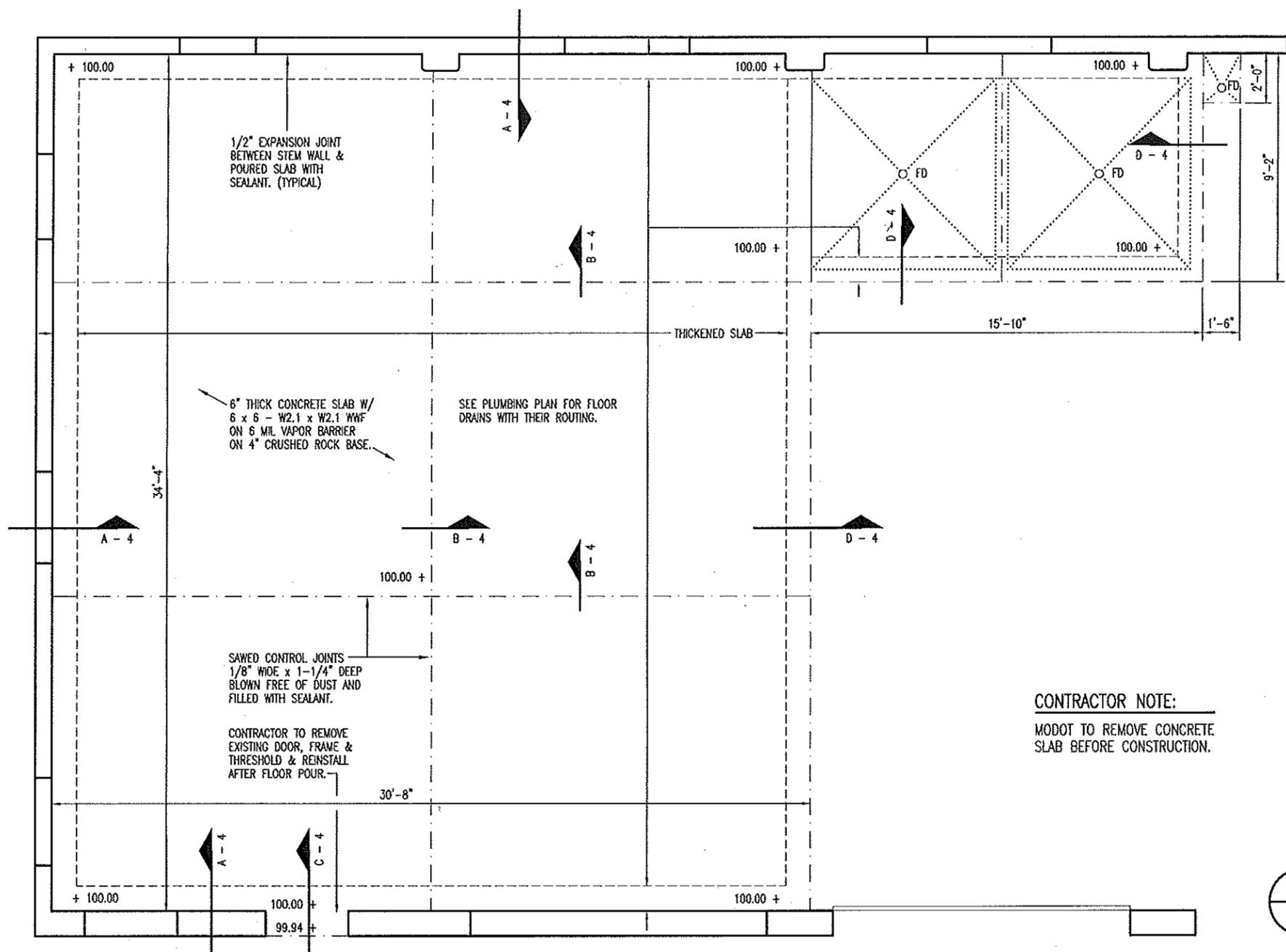
Douglas A. David
2/5/13
DOUGLAS A. DAVID
REGISTERED PROFESSIONAL ENGINEER
NUMBER
A-000132224

SITE PLAN

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

ST. CHARLES MAINTENANCE BUILDING RENOVATION
St. Louis District
St. Charles County

DESIGN BY: LARRY CARVER
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DATE: 2-1-13
Sheet
2 of 24



CONCRETE
SLAB PLAN
SCALE: 3/16" = 1'-0"



Douglas A. Record
DOUGLAS A. RECORD
REGISTERED PROFESSIONAL ARCHITECT
NUMBER A-2001330024

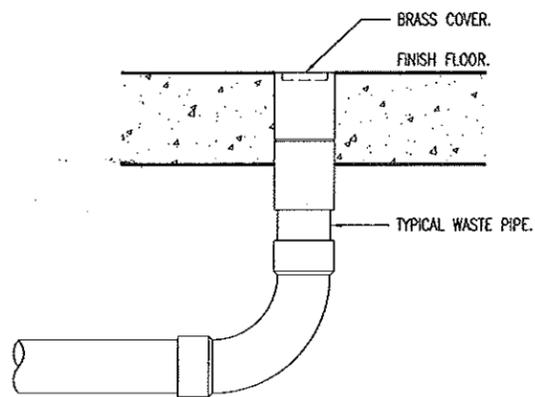
2/5/13

CONCRETE SLAB PLAN

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

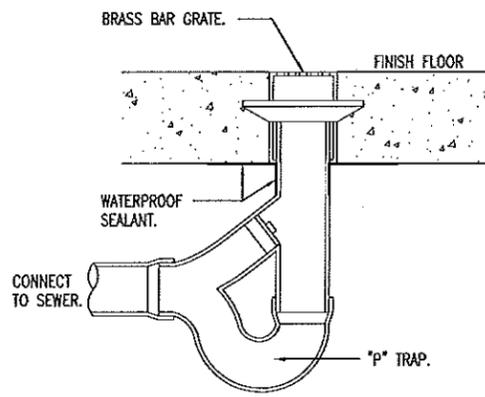
ST. CHARLES MAINTENANCE BUILDING RENOVATION
St. Louis District
St. Charles County

DESIGN BY: LARRY CARVER
DRAWN BY: LARRY CARVER
DATE: 2-1-13
Sheet
3 of 24



FLOOR CLEANOUT DETAIL

SCALE: NONE

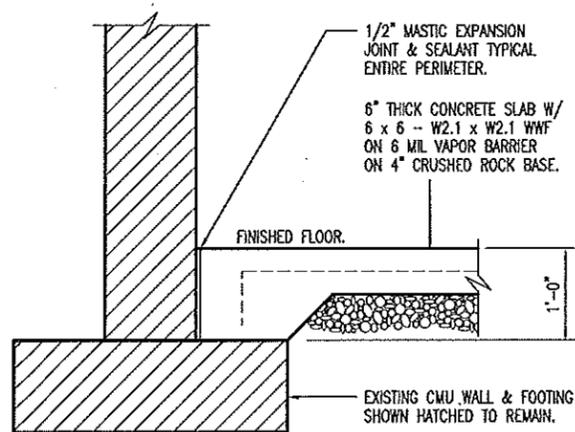


FLOOR DRAIN DETAIL

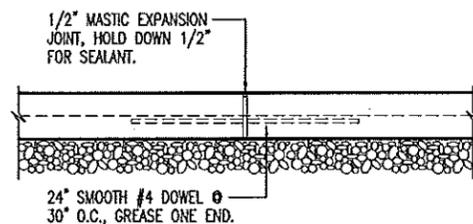
SCALE: NONE

CONCRETE NOTES

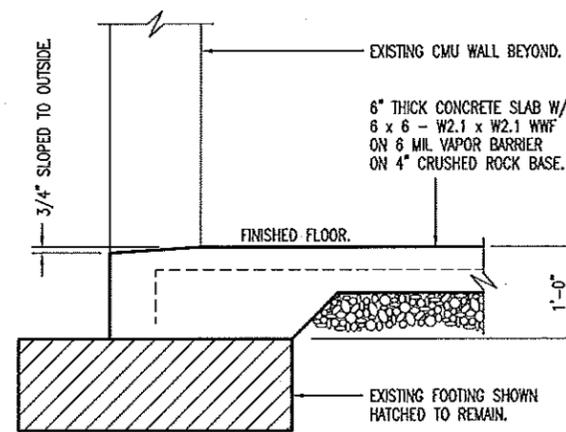
1. CONCRETE WORK SHALL BE EXECUTED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE AMERICAN CONCRETE INSTITUTE (A.C.I.) MANUAL OF CONCRETE PRACTICE.
2. FOUNDATION DESIGN IS BASED UPON AN ASSUMED SOIL BEARING CAPACITY OF 2,000 PSF. IF WET OR UNUSUAL SOIL CONDITIONS ARE ENCOUNTERED, NOTIFY THE DESIGNER AND CONSTRUCTION INSPECTOR BEFORE PROCEEDING WITH THE WORK.
3. ALL CONCRETE SHALL BE TYPE 1 CEMENT WITH A COMPRESSIVE STRENGTH OF 4,000 PSI @ 28 DAYS WITH 4" SLUMP.
4. 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.
5. SAWED CONTROL JOINTS SHALL BE CLEANED FREE OF ALL DEBRIS AND FILLED WITH SEALANT. SEE SECTION 07900.
6. COPPER PIPING RUN THROUGH CONCRETE WORK SHALL BE RUN THROUGH PVC SLEEVES.
7. SEE SPECIFICATION SECTION 03300 CONCRETE FOR ADDITIONAL INFORMATION.



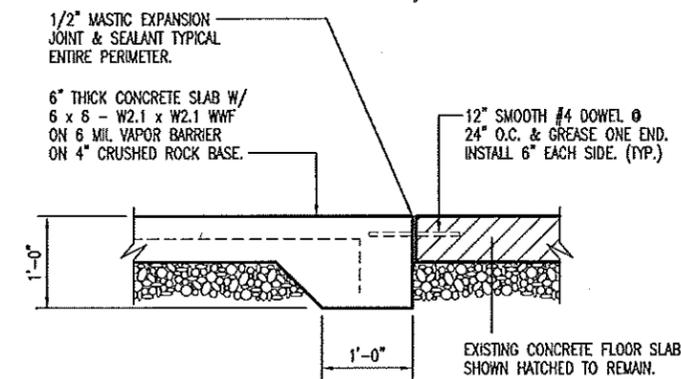
A AT WALL
THICKENED SLAB
4 SCALE: 1/2" = 1'-0"



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



C AT WALL
THICKENED SLAB
4 SCALE: 1/2" = 1'-0"



D DOWELED SLAB
4 SCALE: 1/2" = 1'-0"

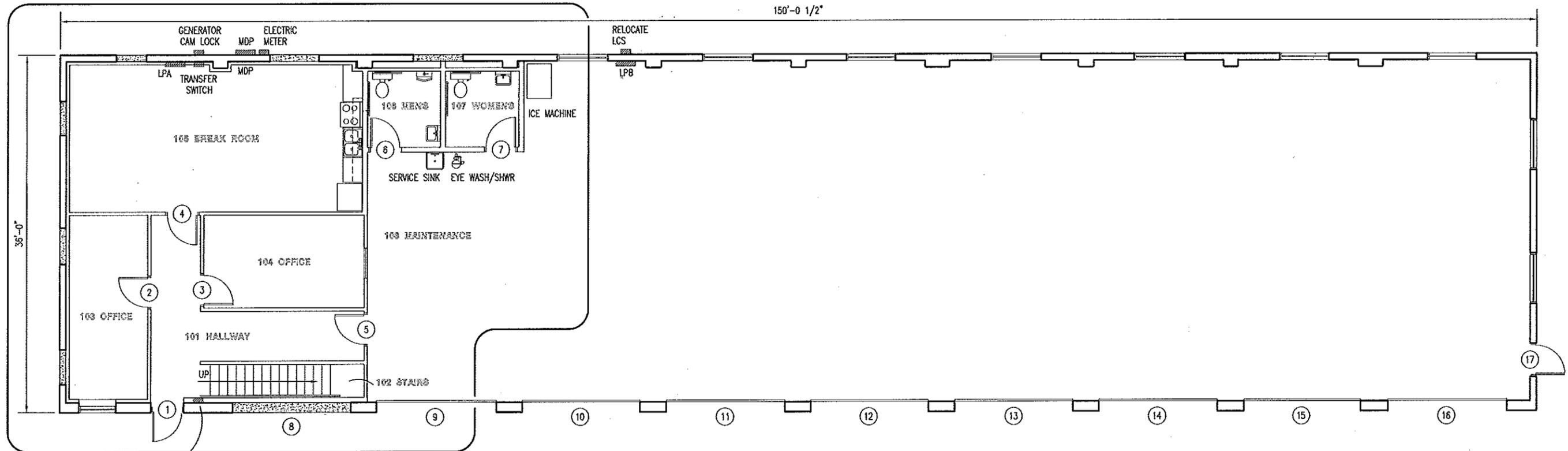
Douglas A Record
DOUGLAS A. RECORD
NUMBER
A-2008022024
2/5/13

CONCRETE DETAILS

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

ST. CHARLES MAINTENANCE BUILDING RENOVATION
St. Louis District
St. Charles County

DESIGN BY: LARRY CARVER
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DATE: 2-8-13
Sheet
4 OF 24



JUNCTION BOX FOR FUEL ISLAND TO REMAIN.

A
6

A
5
FLOOR PLAN
SCALE: 3/32" = 1'-0"



Douglas A. Record
 DOUGLAS A. RECORD
 NUMBER
 A-2013022324

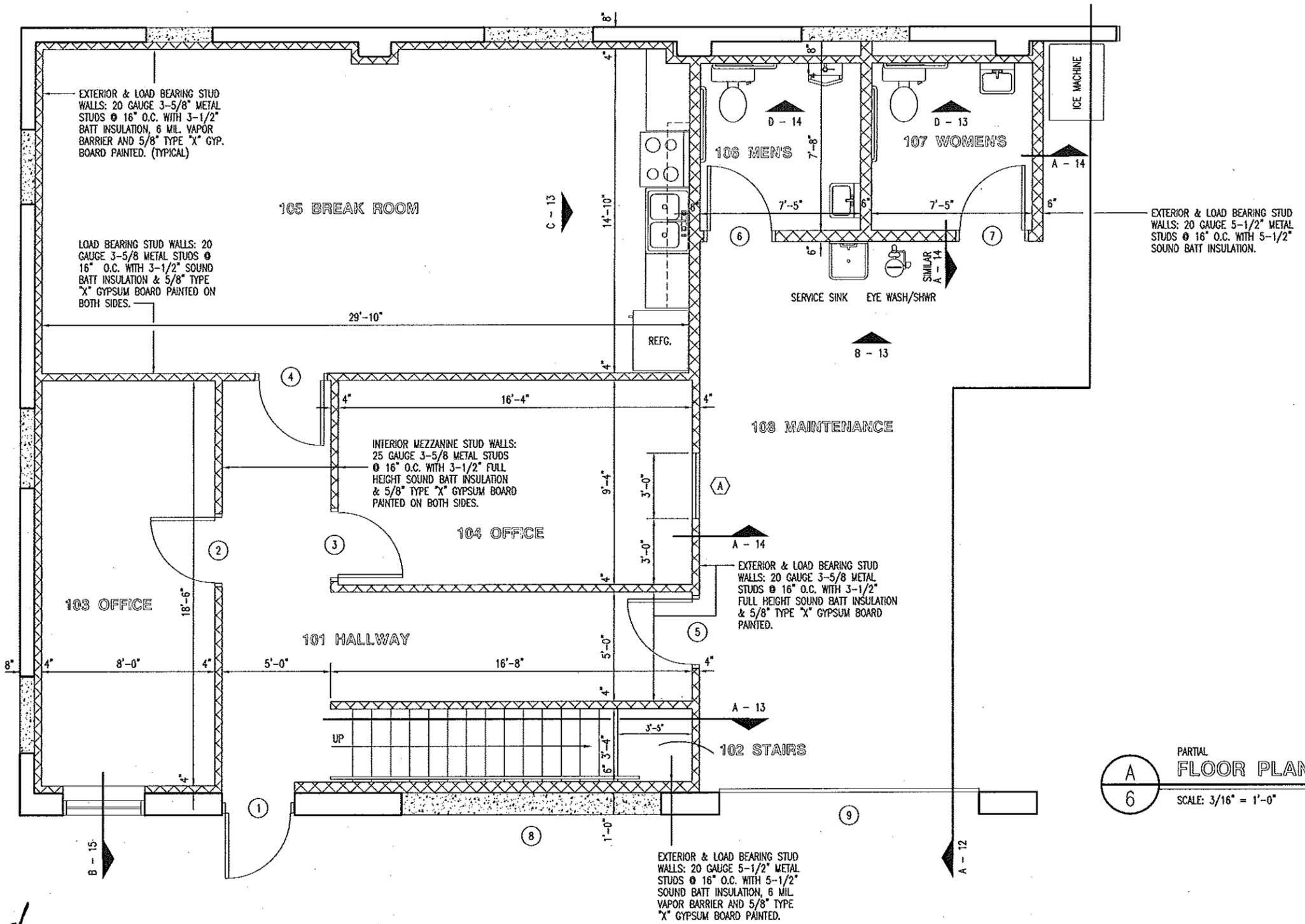
2/5/13

FLOOR PLAN

MISSOURI DEPARTMENT
 OF TRANSPORTATION
 DIVISION OF GENERAL SERVICES
 FACILITIES MANAGEMENT

ST. CHARLES MAINTENANCE BUILDING RENOVATION
 St. Louis District
 St. Charles County

DESIGN BY: LARRY CARVER
 DRAWN BY: LARRY CARVER
 DATE: 2-1-13
 Sheet
 5 of 24



PARTIAL
FLOOR PLAN
 SCALE: 3/16" = 1'-0"
 NORTH

Douglas A Record
 DOUGLAS A. RECORD
 NUMBER
 A-2001.002024
 2/5/13

PARTIAL FLOOR PLAN

MISSOURI DEPARTMENT
 OF TRANSPORTATION
 DIVISION OF GENERAL SERVICES
 FACILITIES MANAGEMENT

ST. CHARLES MAINTENANCE BUILDING RENOVATION
 St. Louis District
 St. Charles County

DESIGN BY: LARRY CARVER
 DRAWN BY: LARRY CARVER
 DATE: 2-1-13
 Sheet
 6 of 24

NOTE:

CONTRACTOR TO ENSURE ALL LOAD BEARING WALLS BEAR ON THICKENED SLAB. SEE DETAIL A-4, B-4 & D-4.

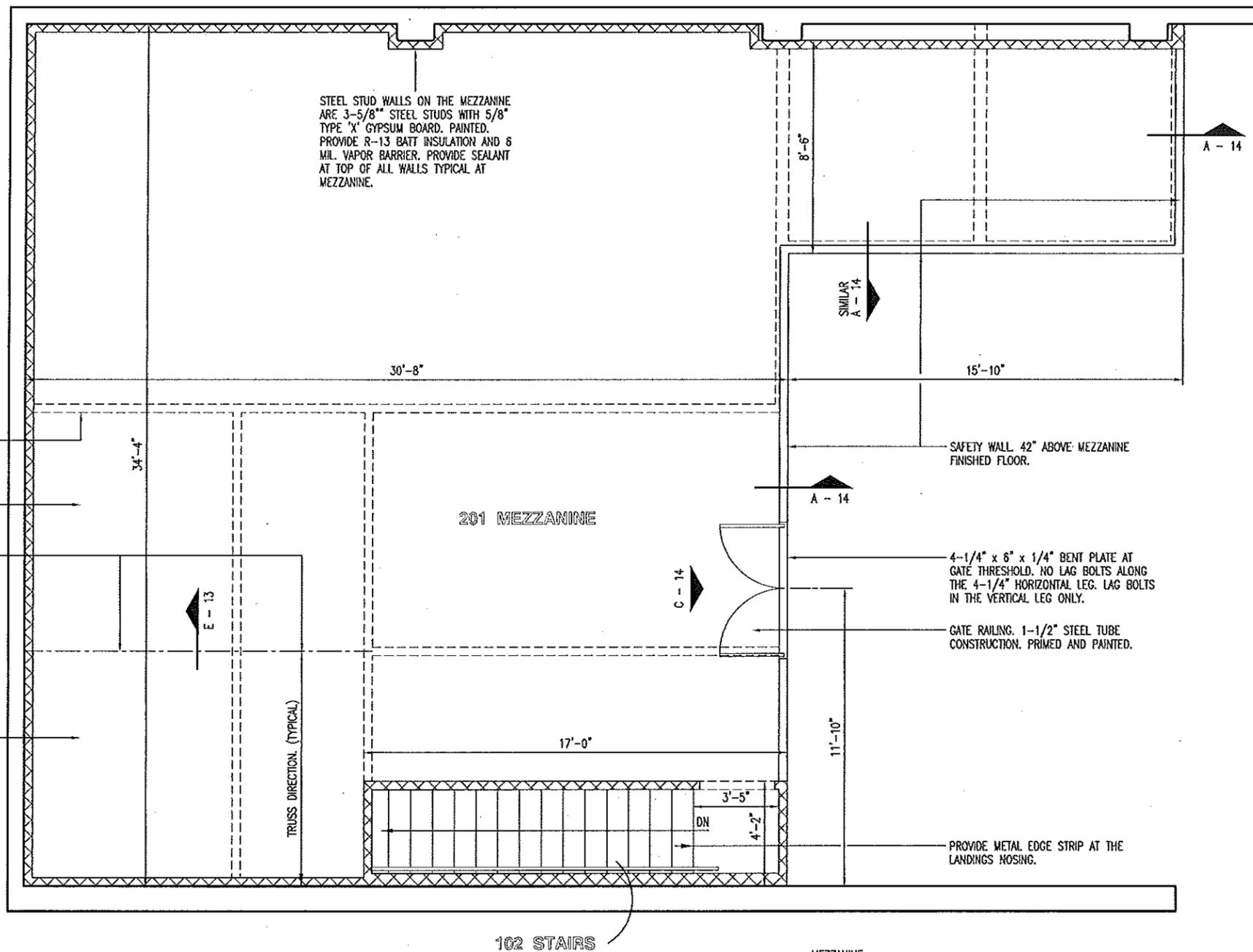
STEEL STUD WALLS ON THE MEZZANINE ARE 3-5/8" STEEL STUDS WITH 5/8" TYPE 'X' GYPSUM BOARD. PAINTED. PROVIDE R-13 BATT INSULATION AND 6 MIL. VAPOR BARRIER. PROVIDE SEALANT AT TOP OF ALL WALLS TYPICAL AT MEZZANINE.

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)



MEZZANINE FLOOR FRAMING
A
7
SCALE: 3/16" = 1'-0"



Douglas A Record
DOUGLAS A. RECORD
NUMBER
A-2008032024

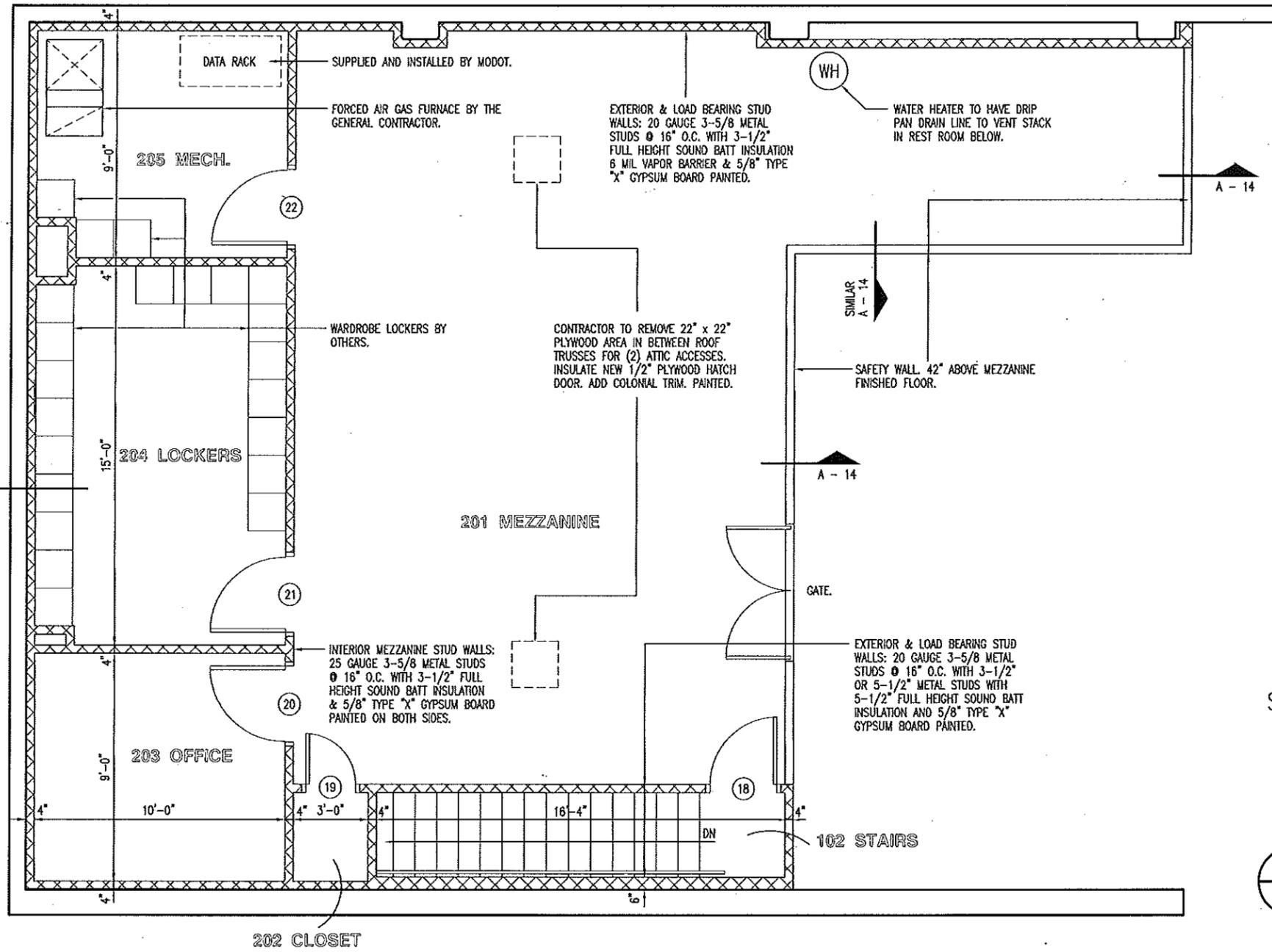
2/5/13

Mezzanine Floor Framing

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

ST. CHARLES MAINTENANCE BUILDING RENOVATION
St. Louis District
St. Charles County

DESIGN BY: LARRY CARYER
DRAWN BY: LARRY CARYER
DATE: 2-1-13
Sheet
7 of 24



SEE MEZZANINE FLOOR FRAMING SHEET 7.

A
8
MEZZANINE PLAN

NORTH

SCALE: 3/16" = 1'-0"

Douglas A. Record
 DOUGLAS A. RECORD
 REGISTERED ARCHITECT
 A-2013002024
 2/5/13

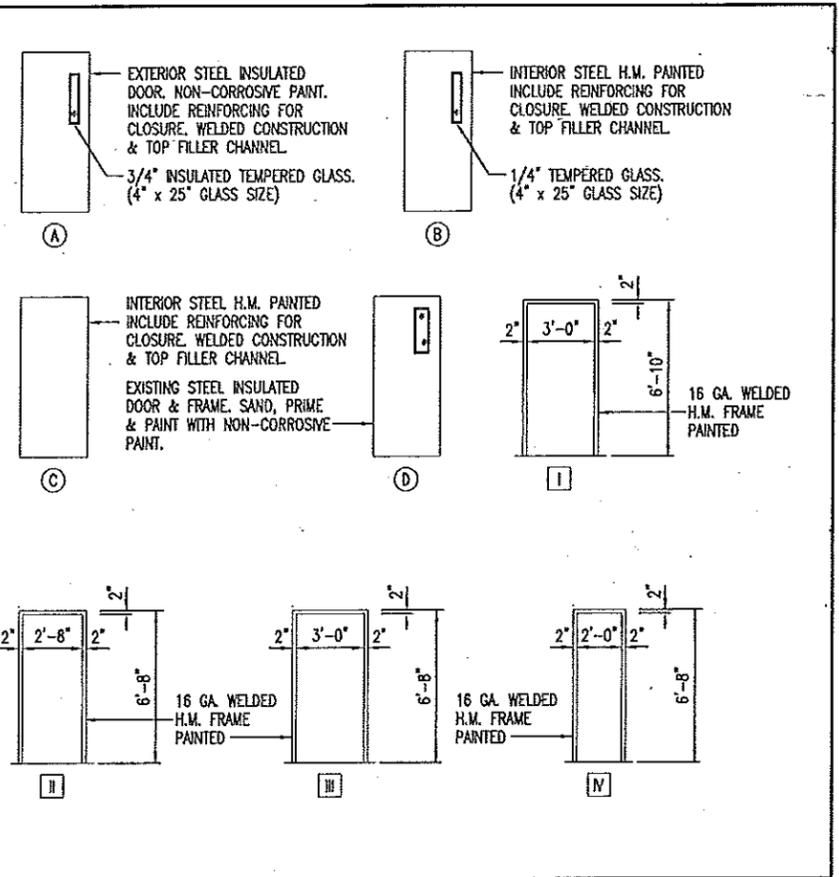
MEZZANINE PLAN

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

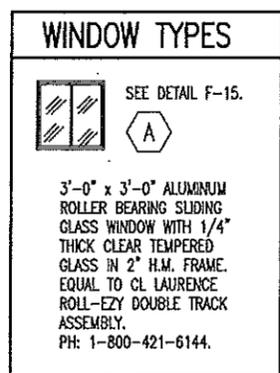
ST. CHARLES MAINTENANCE BUILDING RENOVATION
 St. Louis District
 St. Charles County

DESIGN BY: LARRY CARVER
DRAWN BY: LARRY CARVER
DATE: 2-8-13
Sheet 8 of 24

DOOR SCHEDULE							
NO.	SIZE	SWING	DR. TYPE	FRM. TYPE	DETAIL	DEPTH	HWWR. GRP.
1	EXISTING TO REMAIN.	LHR	D	-	A-15	-	-
2	3'-0" x 6'-8" x 1-3/4"	RH	B	I	C-15	5-7/8"	1
3	3'-0" x 6'-8" x 1-3/4"	RH	B	I	C-15	5-7/8"	1
4	3'-0" x 6'-8" x 1-3/4"	RHR	R	I	C-15	5-7/8"	3
5	3'-0" x 6'-8" x 1-3/4"	LHR	A	I	E-15	5-3/4"	2
6	3'-0" x 6'-8" x 1-3/4"	LH	C	I	D-15	5-5/8"	4
7	3'-0" x 6'-8" x 1-3/4"	RH	C	I	D-15	5-5/8"	4
8	RETURN TO OWNER.	-	-	-	-	-	-
9	EXISTING TO REMAIN.	-	-	-	-	-	-
10	EXISTING TO REMAIN.	-	-	-	-	-	-
11	EXISTING TO REMAIN.	-	-	-	-	-	-
12	EXISTING TO REMAIN.	-	-	-	-	-	-
13	EXISTING TO REMAIN.	-	-	-	-	-	-
14	EXISTING TO REMAIN.	-	-	-	-	-	-
15	EXISTING TO REMAIN.	-	-	-	-	-	-
16	EXISTING TO REMAIN.	-	-	-	-	-	-
17	EXISTING TO REMAIN.	-	-	-	-	-	-
18	2'-8" x 6'-6" x 1-3/4"	RH	B	II	C-15	5-7/8"	3
19	2'-0" x 6'-6" x 1-3/4"	RHR	C	IV	C-15	5-7/8"	5
20	3'-0" x 6'-6" x 1-3/4"	RH	A	III	C-15	5-7/8"	1
21	3'-0" x 6'-6" x 1-3/4"	LH	A	III	C-15	5-7/8"	1
22	3'-0" x 6'-6" x 1-3/4"	LH	A	III	C-15	5-7/8"	1



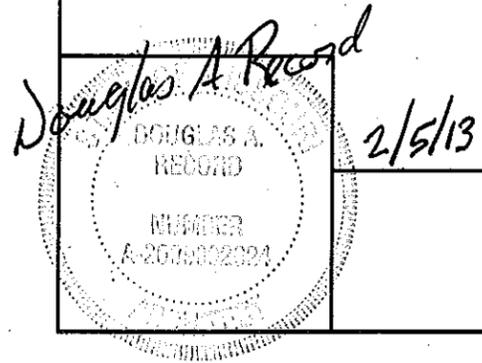
PLUMBING FIXTURE SCHEDULE						
SYM.	FIXTURE	PIPE CONNECTION				REMARKS
		CW	HW	S&W	VENT	
WC	WATER CLOSET	1/2"		3"	2"	EQUAL TO AMERICAN STANDARD #2377.100 FLOOR MOUNT. PRESSURE ASSISTED, ELONGATED WATER-SAVER "CADET" WATER CLOSET. 16-1/2" HIGH 3109.016 BOWL, 4098.100 TANK. INCLUDE OPER FRONT SEAT WITH LID. (WHITE)
EW	EMERGENCY EYE WASH	3/4"	3/4"			EQUAL TO BRADLEY MODEL S19-310 DRENCH SHOWER/EYE WASH UNIT SAFETY YELLOW. S19-2100 THERMOSTATIC MIXING 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.
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.
FD	FLOOR DRAIN			2"		PVC FLOOR DRAIN WITH P-TRAP. 6-1/2" DIA. NICKLE-BRONZE STRAINER, 2" FIP THREADED THROAT-BALL BACKWATER DEVICE. 1-1/2" PRE-INSTALLED FIP CLEAN-OUT THREADS.
CO	CLEAN OUT					BRASS WITH ADAPTER AND CAP EQUAL TO PIPE SIZE SHOWN.
SK	SINK	1/2"	1/2"	2"	2"	PROVIDED BY MODOT INSTALLED BY CONTRACTOR. PROVIDE INSINKERATOR EVOLUTION 3/4 HP, 8.1 AMP, GARBAGE DISPOSAL.
WH	WATER HEATER	3/4"	3/4"			A.D. 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.
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.



HVAC SCHEDULE						
SYM.	UNIT	MANUFACTURER	BTU OUTPUT	FUEL	VOLTAGE	REMARKS
A	GAS FURNACE/ FORCED AIR	CARRIER MODEL 59SP5A060E17--14 95%+ AFEU OR EQUAL	58,000	NATURAL GAS & ELECTRIC	120	EVAPORATOR COIL - CNMPP3017ATA 2" COMBINED CONCENTRIC KIT - KGVATO701CVT. AIR PURIFIER MERY 15 - GAPAXCC1625 HUMIDIFIER BY PASS TYPE - HUMCCS8P2412
B	CONDENSING UNIT	CARRIER MODEL 24ABB330A003 OR EQUAL	48,000	ELECTRIC	208/230	2.5-TON, PURON 208/230V 1-PHASE. 13 SEER AIR CONDITIONER.
C	THERMOSTAT	33CS2PP2S-02 CARRIER OR EQUAL	--	--	--	7 DAY PROGRAMMABLE.
D	MANUALLY OPERATED DAMPER IN RETURN DUCT	--	--	--	--	2 - POSITION 5" # (VERIFY SIZE) DUCT FOR EXTERNAL VENTILATION AIR. 125 CFM. PROVIDE ALUMINUM LOUVER WITH BUG SCREEN AS REQUIRED.

FINISH SCHEDULE												
NO.	ROOM	FLOOR			BASE	WALLS			CEILING			
		CURE AND SEALER ON CONCRETE	3/4" PLYWOOD	VCT ON 3/4" PLYWOOD 2 x 12's	4" VINYL BASE (ROLL)	4" VINYL BASE ON THE PLYWOOD WALLS.	1/2" AC PLYWOOD ON OPEN BAY SIDE	5/8" TYPE 'X' G.P. BD.	LATEX PAINT	2 x 2 ACOUSTICAL CEILING TILE *	MATCH EXISTING LATEX PAINT ON PLYWOOD.	NONE. EXIST. PLYWOOD
101	HALLWAY	•			•							
102	STAIRS		•		•							
103	OFFICE	•			•							
104	OFFICE	•			•							
105	BREAK ROOM	•			•							
106	MEN'S	•			•							
107	WOMEN'S	•			•							
108	MAINTENANCE	•			•							•
201	MEZZANINE		•		•							
202	CLOSET		•		•							
203	OFFICE		•		•							
204	LOCKERS		•		•							
205	MECHANICAL		•		•							

* FINISHED CEILINGS AT 7'-0" A.F.F. (TYPICAL)

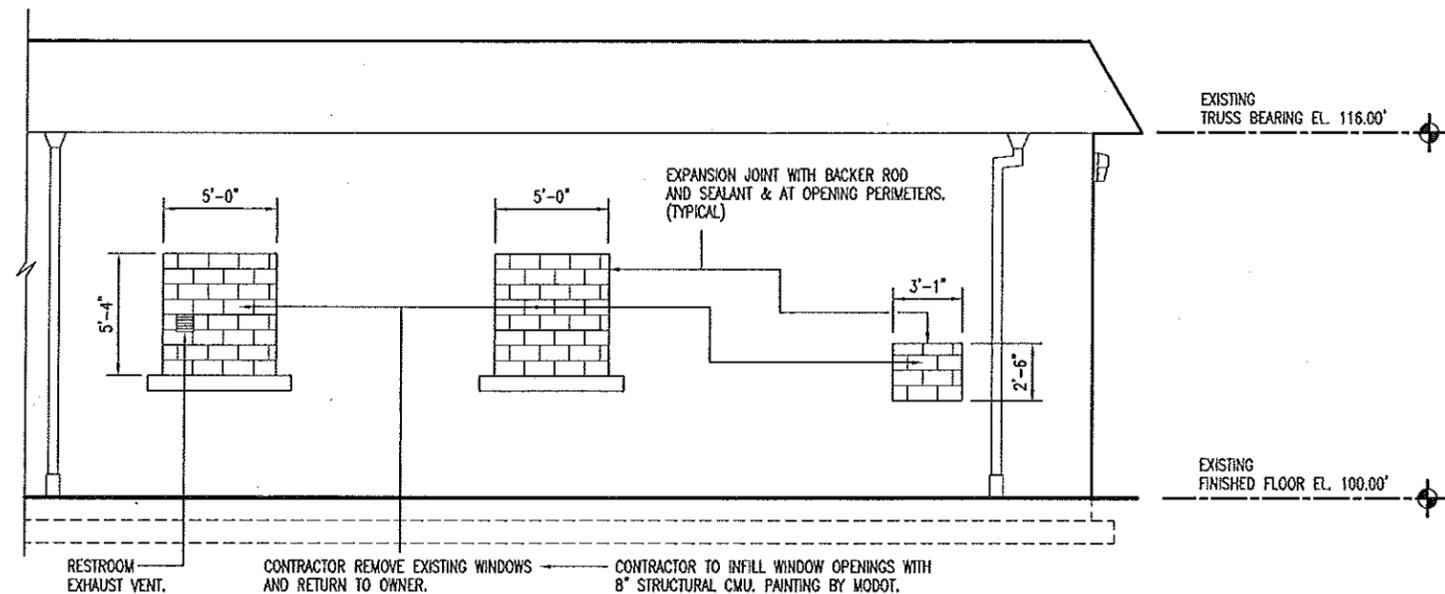


SCHEDULES

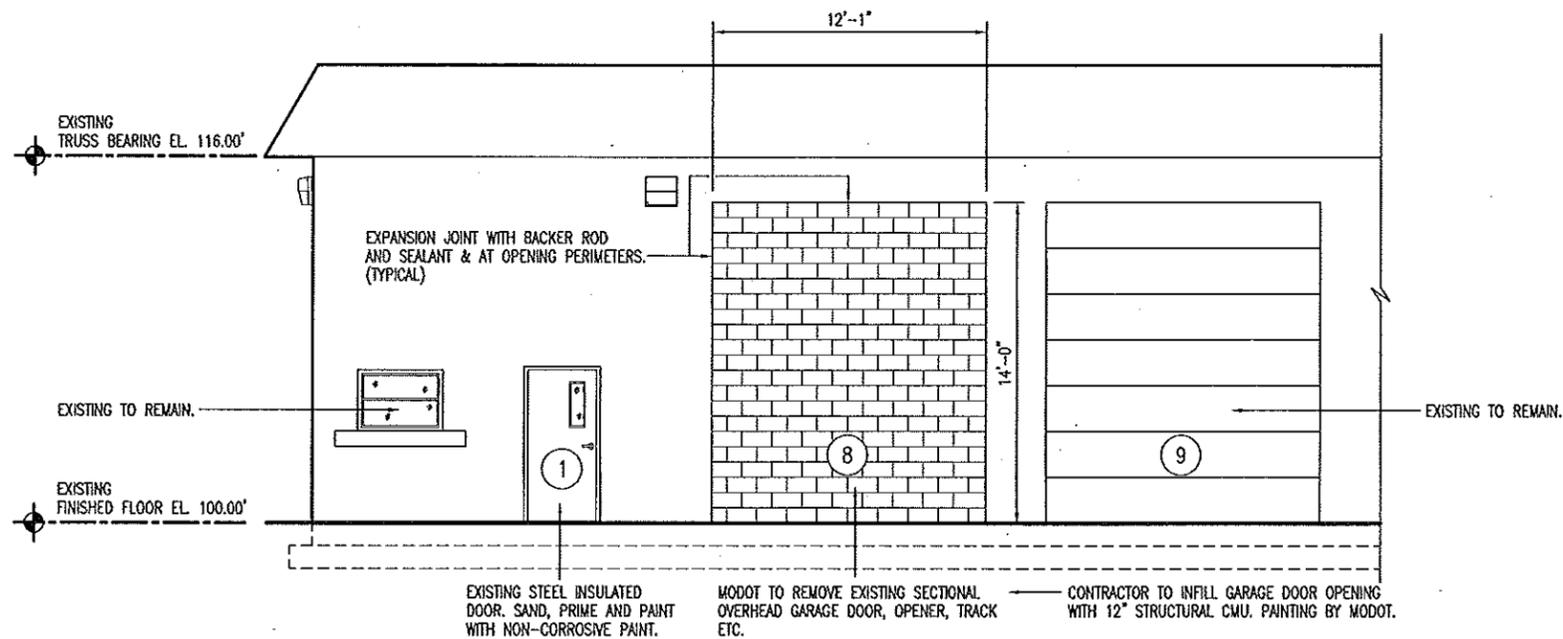
MISSOURI DEPARTMENT OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

ST. CHARLES MAINTENANCE BUILDING RENOVATION
St. Louis District
St. Charles County

DESIGN BY: LARRY CARYER
DRAWN BY: LARRY CARYER
DATE: 2-8-13
Sheet 9 of 24



PARTIAL
B
 NORTH ELEVATION
 10
 SCALE: 1/8" = 1'-0"



PARTIAL
A
 SOUTH ELEVATION
 10
 SCALE: 1/8" = 1'-0"

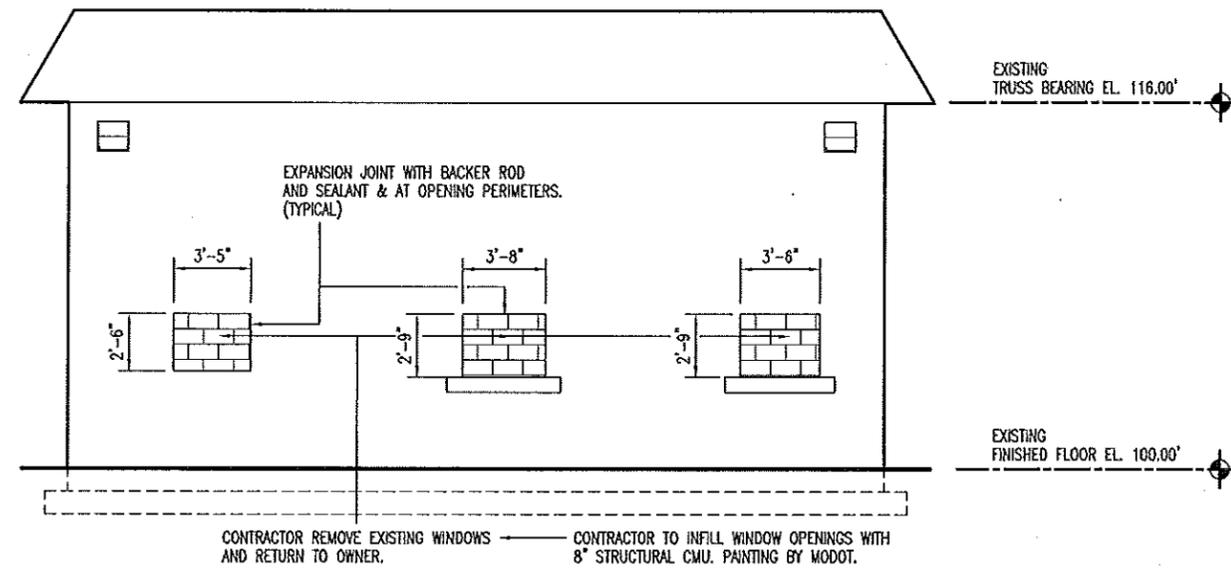
Douglas A. Record
 DOUGLAS A. RECORD
 NUMBER
 A-2003032024
 2/5/13

Partial North & South Elevations

MISSOURI DEPARTMENT
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 DIVISION OF GENERAL SERVICES
 FACILITIES MANAGEMENT

ST. CHARLES MAINTENANCE BUILDING RENOVATION
 St. Louis District
 St. Charles County

DESIGN BY: LARRY CARVER
 DRAWN BY: LARRY CARVER
 DATE: 2-1-13
 Sheet
 10 of 24



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

Douglas A. Record
 DOUGLAS A. RECORD
 NUMBER
 A-2008002024
 2/5/13

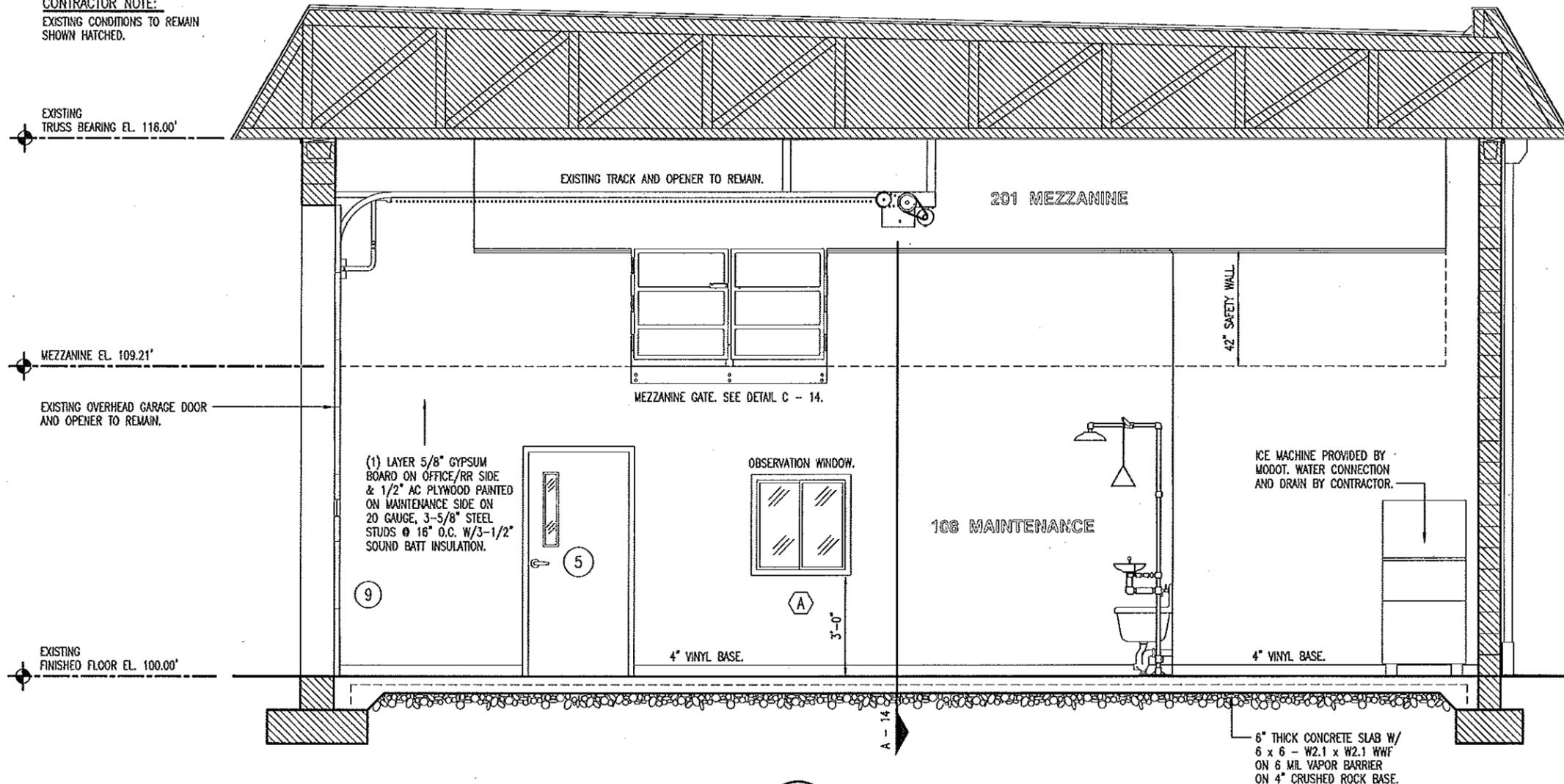
EAST ELEVATION

MISSOURI DEPARTMENT
 OF TRANSPORTATION
 DIVISION OF GENERAL SERVICES
 FACILITIES MANAGEMENT

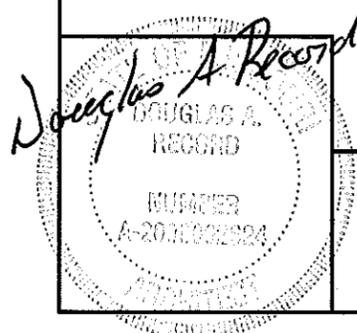
ST. CHARLES MAINTENANCE BUILDING RENOVATION
 St. Louis District
 St. Charles County

DESIGN BY: LARRY CARVER
 DRAWN BY: LARRY CARVER
 DATE: 2-1-13
 Sheet
 11 of 24

CONTRACTOR NOTE:
EXISTING CONDITIONS TO REMAIN
SHOWN HATCHED.



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



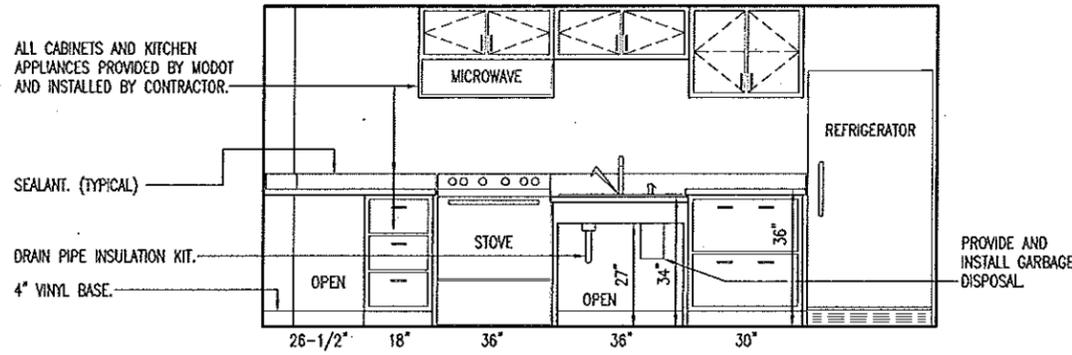
2/5/13

BUILDING SECTION

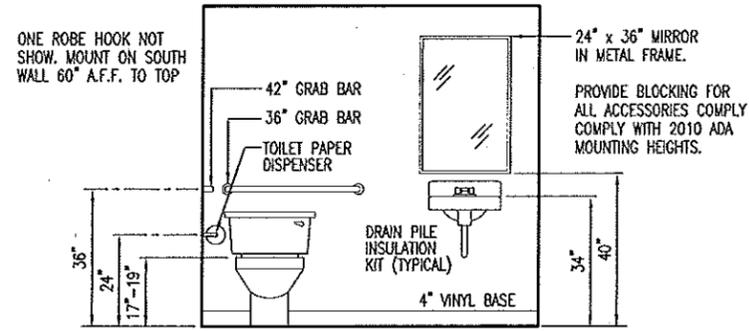
MISSOURI DEPARTMENT
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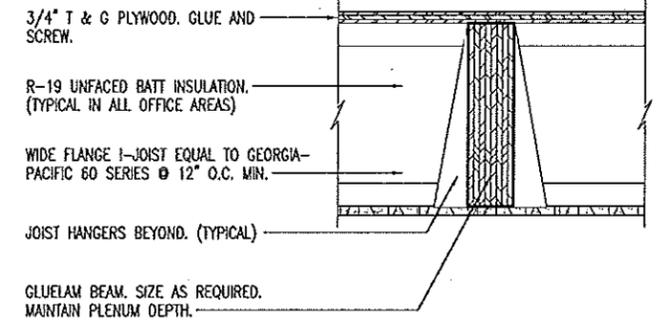
DESIGN BY: LARRY CARVER
DRAWN BY: LARRY CARVER
DATE: 2-1-13
Sheet
12 of 24



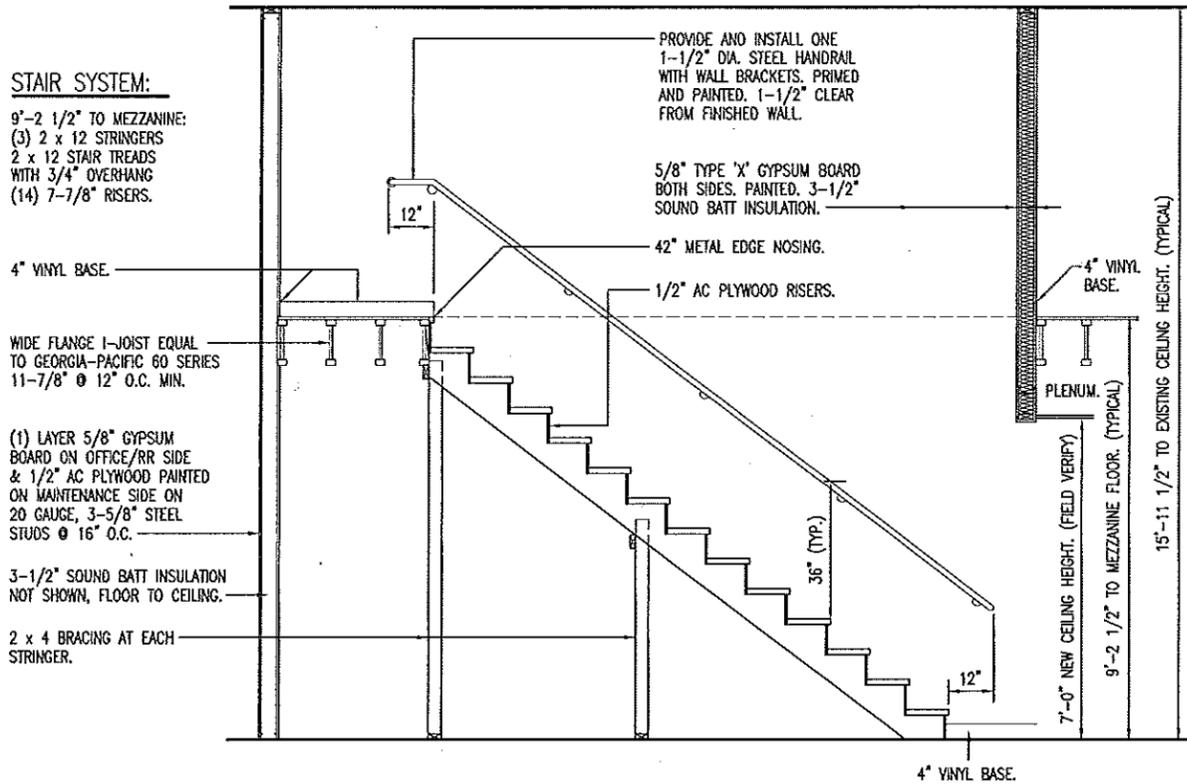
C
13
BREAK ROOM ELEVATION
SCALE: 1/4" = 1'-0"



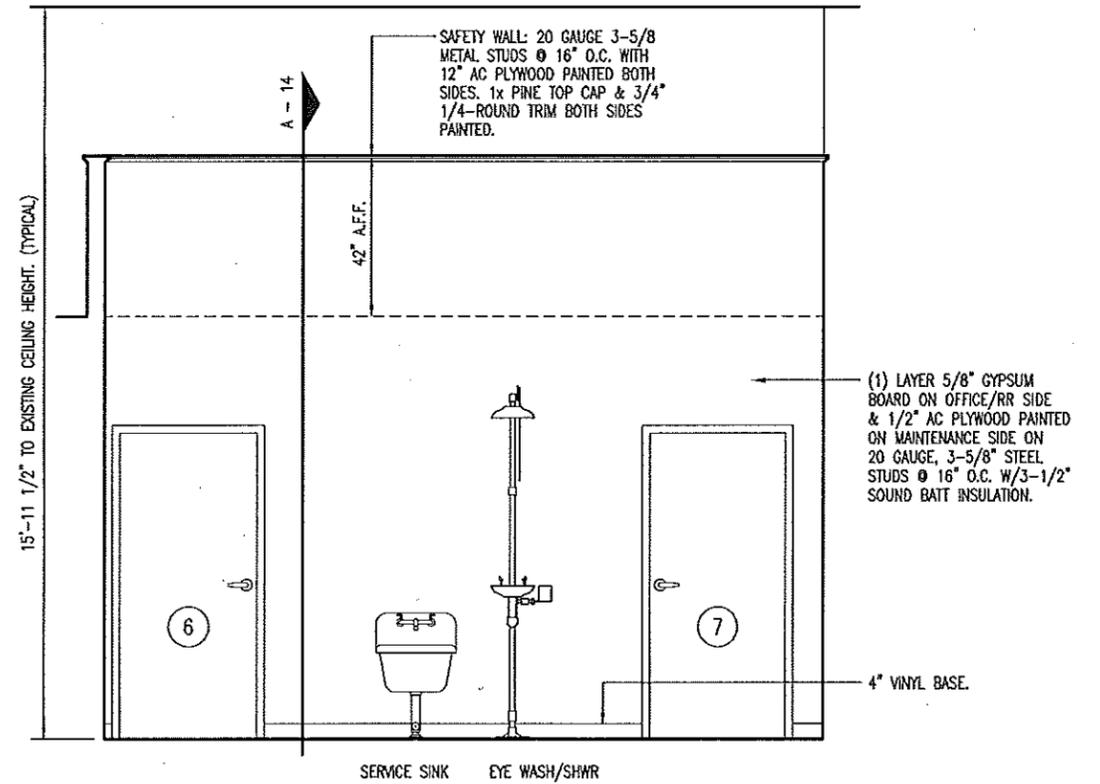
D
13
107 WOMEN'S ELEVATION
SCALE: 1/4" = 1'-0"



E
13
BEAM DETAIL
SCALE: 1" = 1'-0"



A
13
MEZZANINE STAIR SYSTEM
SCALE: 1/4" = 1'-0"



B
13
108 MAINTENANCE
SCALE: 1/4" = 1'-0"

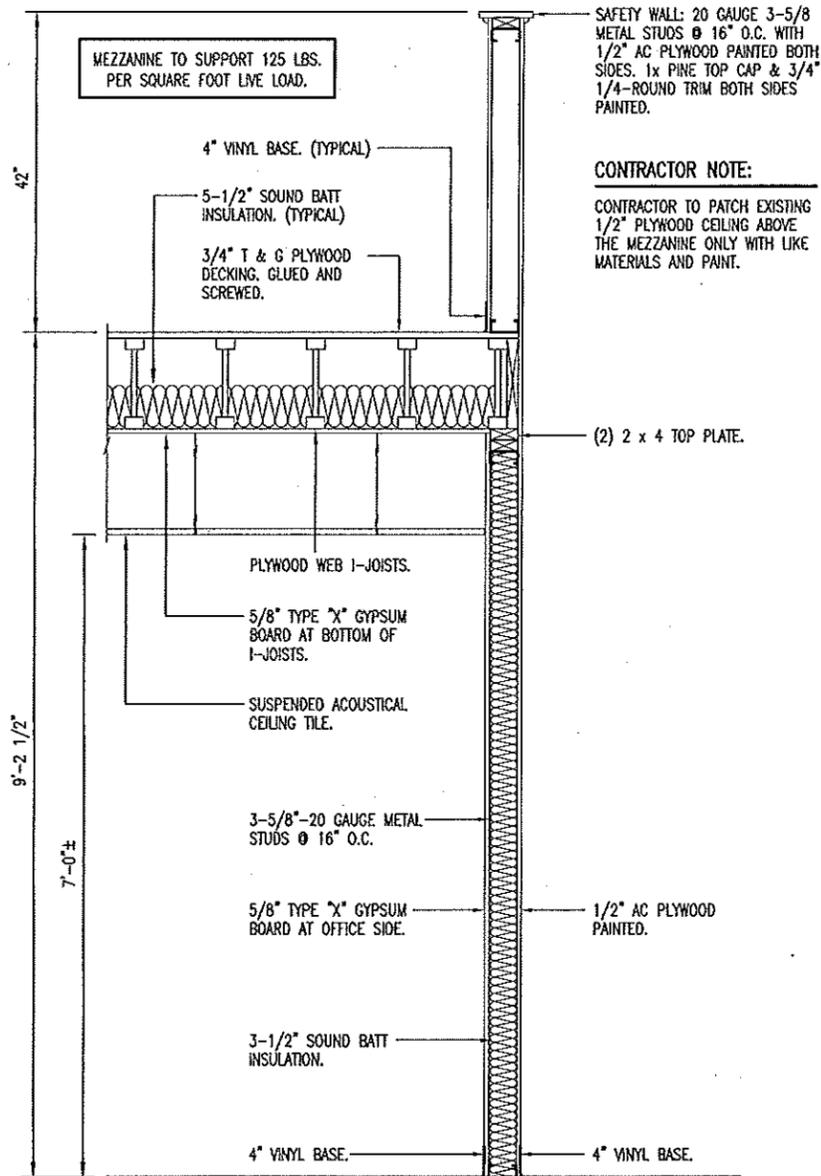
Douglas A. Record
DOUGLAS A. RECORD
REGISTERED ARCHITECT
NUMBER
A-2001602224
2/5/13

INTERIOR ELEVATIONS

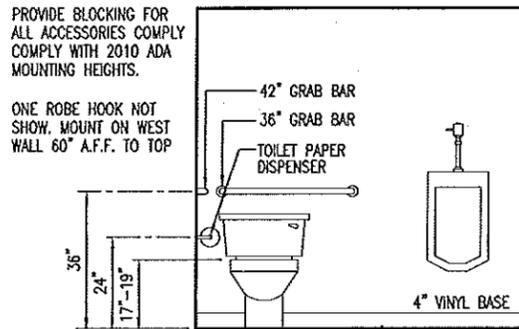
MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

ST. CHARLES MAINTENANCE BUILDING RENOVATION
St. Louis District
St. Charles County

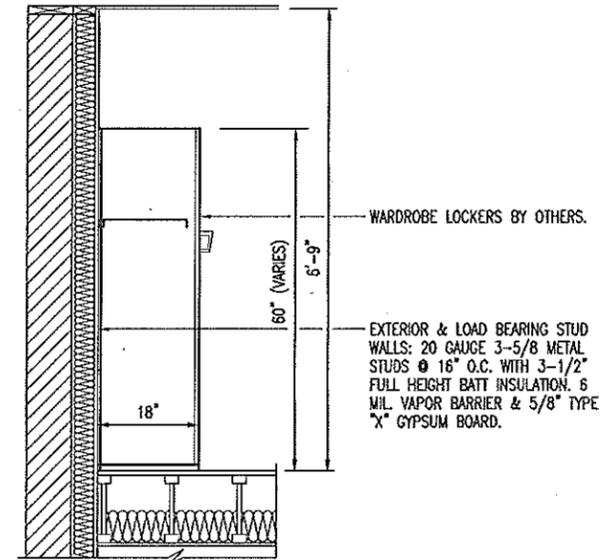
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DATE: 2-1-13
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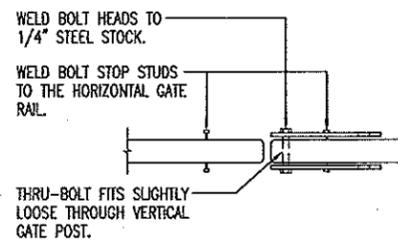
A
14
MEZZANINE WALL SECTION
SCALE: 1/2" = 1'-0"



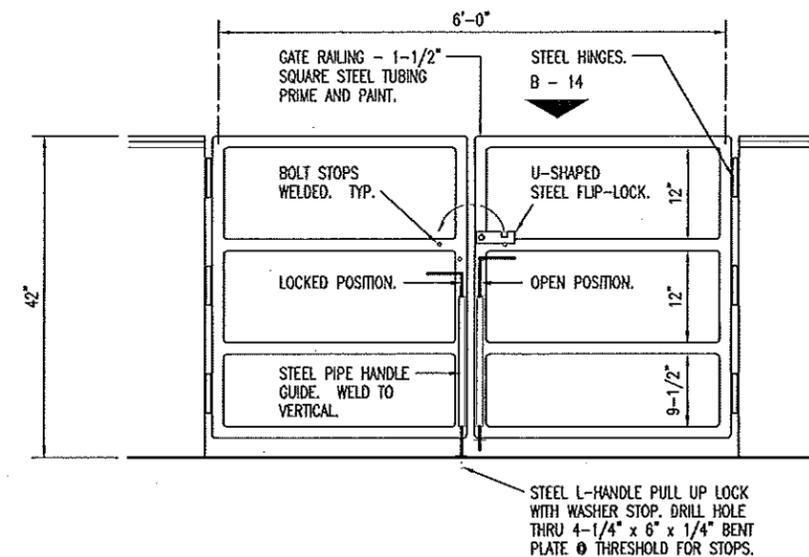
D
14
106 MEN'S ELEVATION
SCALE: 1/4" = 1'-0"



E
14
LOCKER SECTION
SCALE: 3/8" = 1'-0"



B
14
FLIP LOCK
SCALE: 1" = 1'-0"



C
14
VIEW FROM MEZZANINE SWING GATE DETAIL
SCALE: 1" = 1'-0"

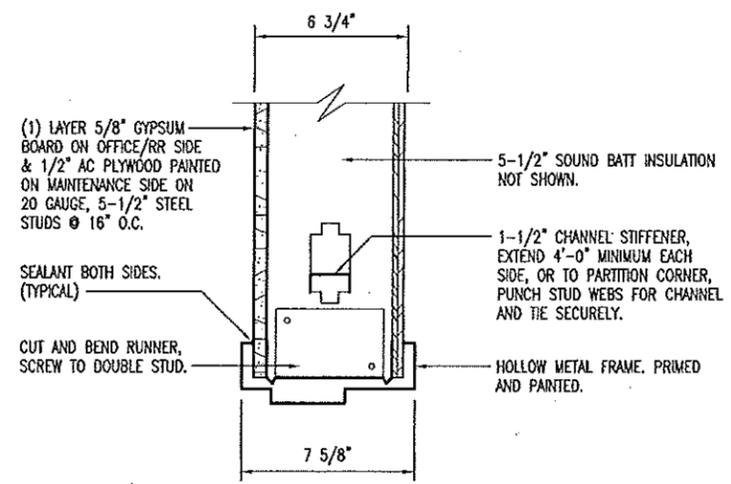
Douglas A. Record
DOUGLAS A. RECORD
REGISTERED ARCHITECT
NO. 2033002824
2/5/13

INTERIOR ELEVATIONS

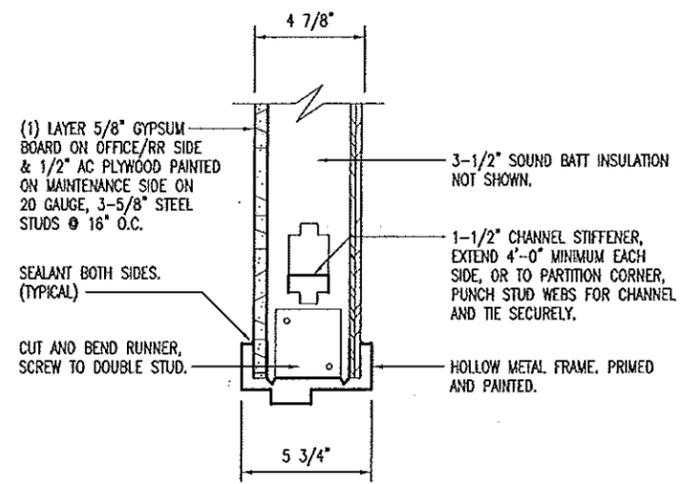
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St. Charles County

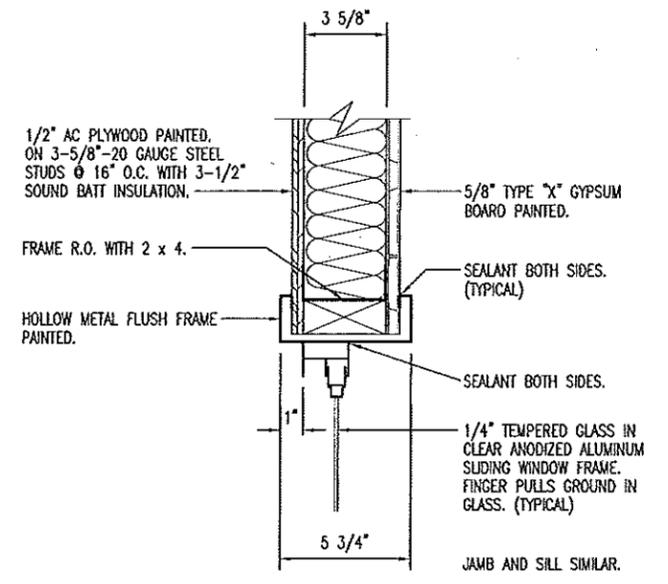
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14 of 24



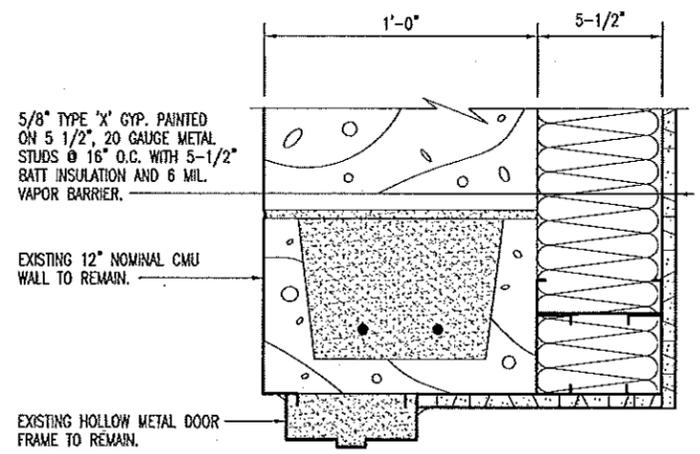
D
15
DOOR HEAD/JAMB
SCALE: 1-1/2" = 1'-0"



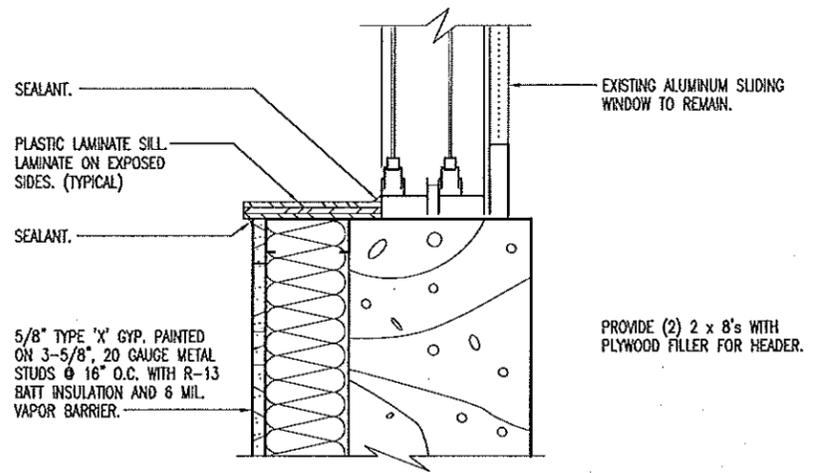
E
15
DOOR HEAD/JAMB
SCALE: 1-1/2" = 1'-0"



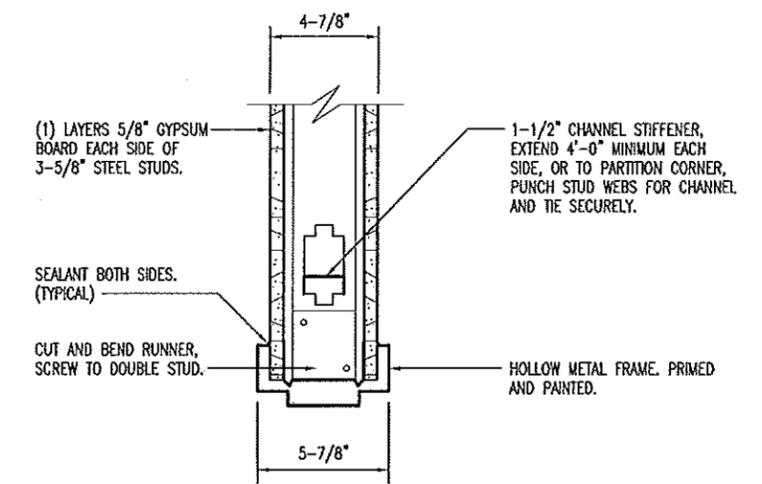
F
15
ALUMINUM OBSERVATION WINDOW WINDOW HEAD
SCALE: 1-1/2" = 1'-0"



A
15
JAMB SIMILAR DOOR HEAD
SCALE: 1-1/2" = 1'-0"



B
15
JAMB SIMILAR WINDOW SILL
SCALE: 1-1/2" = 1'-0"



C
15
SOUND BATT INSULATION NOT SHOWN DOOR HEAD/JAMB
SCALE: 1-1/2" = 1'-0"

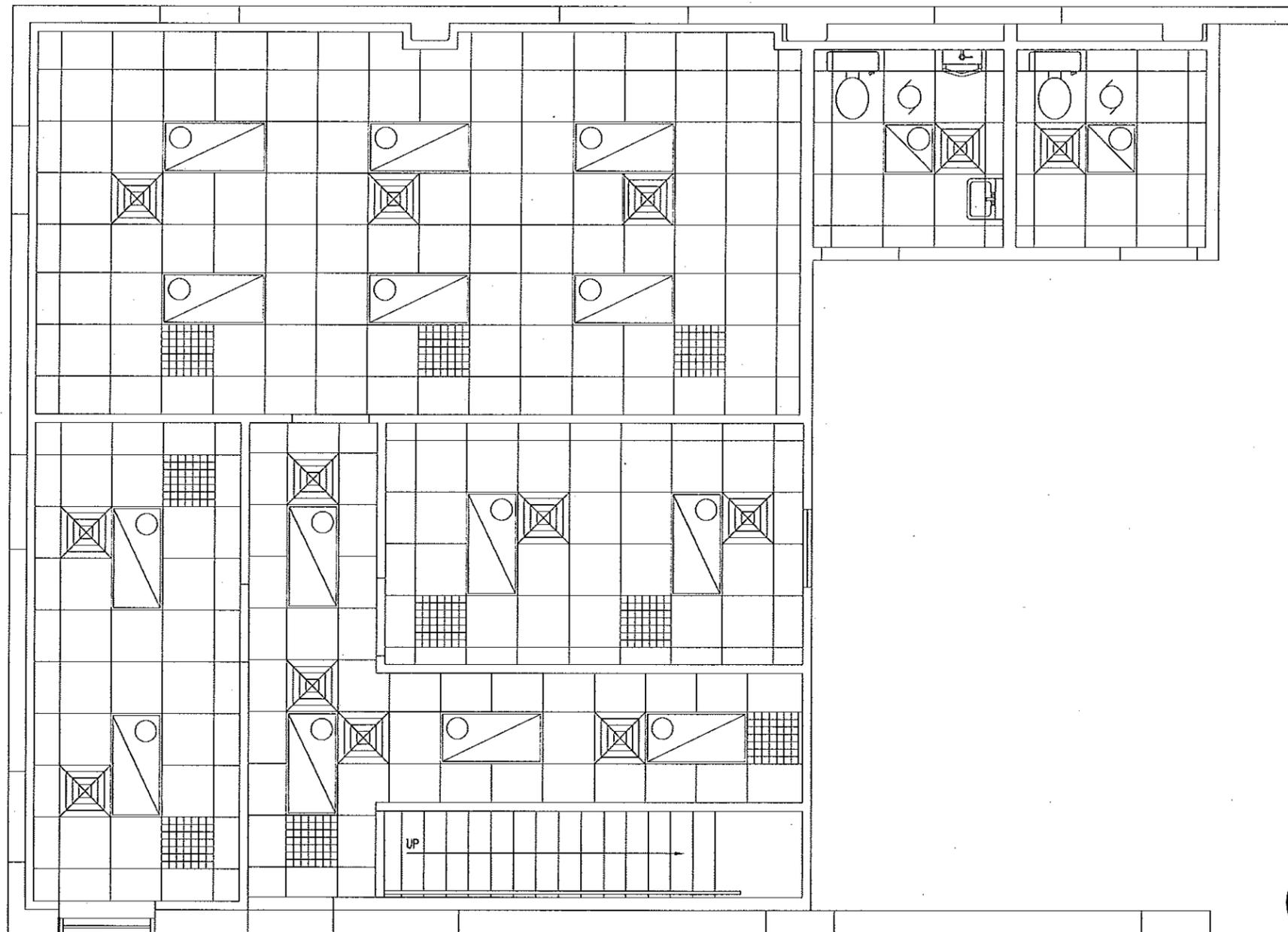
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NUMBER
A-2013-02084

JAMB DETAILS

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ST. CHARLES MAINTENANCE BUILDING RENOVATION
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REFLECTED
CEILING PLAN
 A
 16
 SCALE: 3/16" = 1'-0"



Douglas A Record
 DOUGLAS A. RECORD
 ARCHITECT
 NUMBER
 A-2011-02124

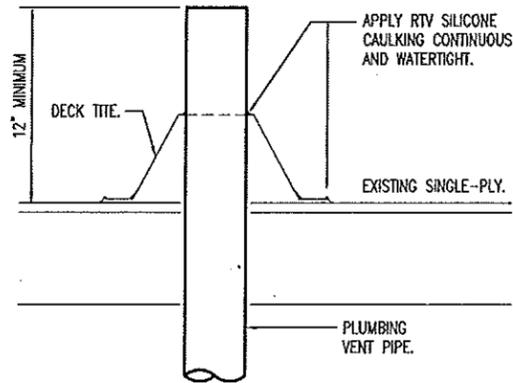
2/5/13

REFLECTED CEILING PLAN

MISSOURI DEPARTMENT
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 DIVISION OF GENERAL SERVICES
 FACILITIES MANAGEMENT

ST. CHARLES MAINTENANCE BUILDING RENOVATION
 St. Louis District
 St. Charles County

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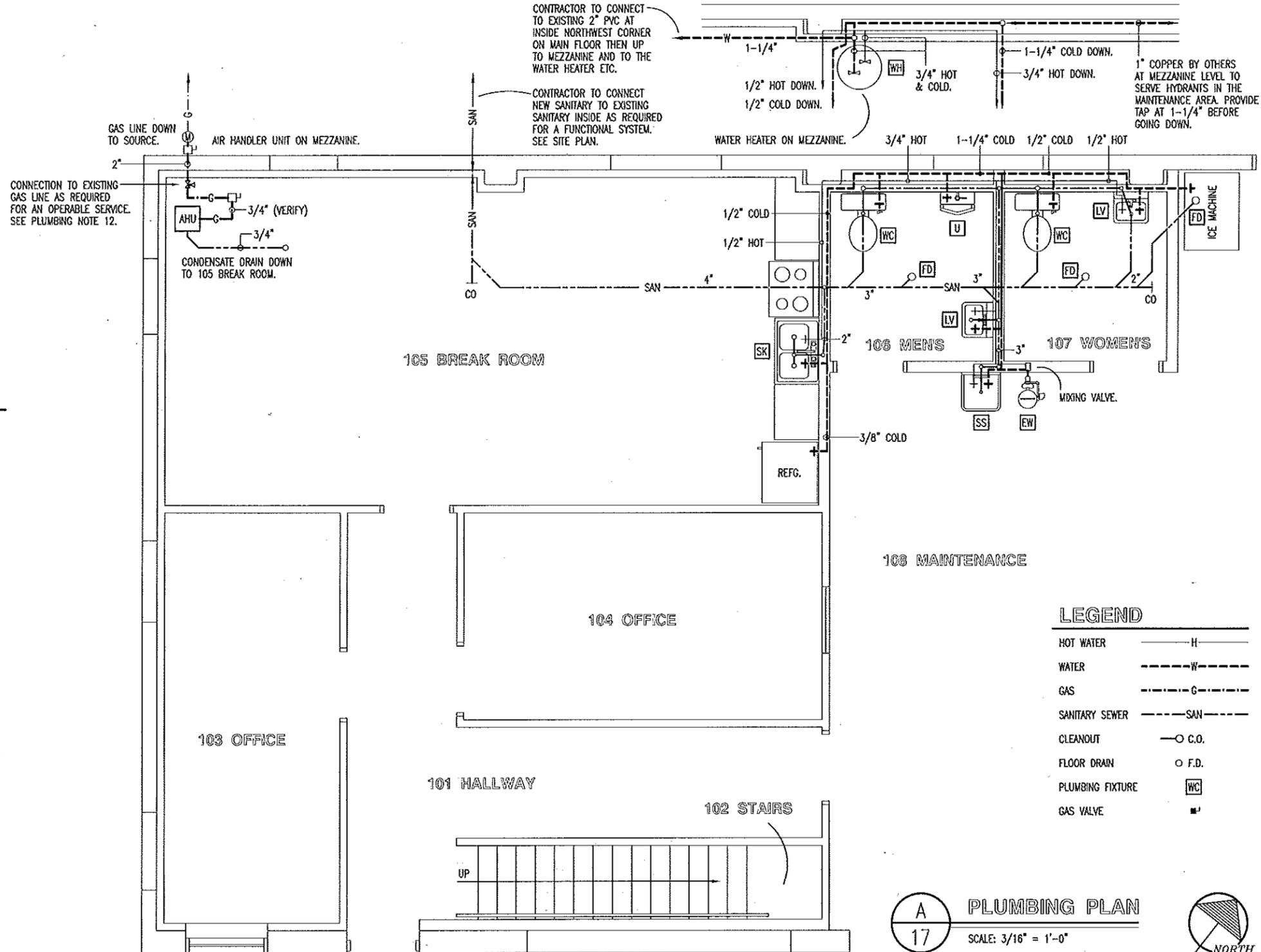


VENT THROUGH ROOF DETAIL

SCALE: NONE

PLUMBING NOTES

1. DRAWINGS AND DIAGRAMS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
2. PLUMBING SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE INTERNATIONAL PLUMBING CODE.
3. PLUMBING SHALL BE LOCATED AND PLACED UNDER THE SLAB PRIOR TO POURING OF CONCRETE. PIPING SHALL BE RUN IN SAND FILLED TRENCH UNDER THE BASE ROCK AND SLEEVED WITH PVC WHENEVER RUN THROUGH CONCRETE.
4. PROVIDE PLUMBING EQUIPMENT AND ACCESSORIES REQUIRED FOR COMPLETE AND OPERATIONAL PLUMBING SYSTEMS AS REQUIRED BY MANUFACTURER'S INSTRUCTIONS AND DIRECTIONS FOR SYSTEMS SPECIFIED.
5. PLUMBING VENTS ARE NOT SHOWN ON THE PLANS. ALL FIXTURES SHALL BE PROPERLY VENTED AS PER IBC PLUMBING CODE.
6. ROOF VENTS SHALL BE COMBINED WHEREVER IN COMPLIANCE WITH THE NATIONAL PLUMBING CODE TO MINIMIZE ROOF PENETRATIONS.
7. PROVIDE SHUT OFF VALVES AT EACH FIXTURE.
8. PROVIDE SHOCK ABSORBERS AS REQUIRED AT EACH FAUCET.
9. SEE MECHANICAL PLAN FOR GAS PIPING AND MECHANICAL REQUIREMENTS.
10. CONTRACTOR TO PROVIDE CAST IRON VENT PIPING IN PLENUM AS REQUIRED BY CODE. SECURE AS REQUIRED.
11. 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.
12. CONTRACTOR TO BE RESPONSIBLE FOR REMOVING THE EXISTING 2" NATURAL GAS LINE (APPROXIMATELY AT 6'-0" ELEVATION) GOING INTO BUILDING AND REROUTE THE 2" GAS LINE ONE FOOT FROM FINISHED CEILING (ELEVATION 15'-0") FILL THE WALL PENETRATION WITH MORTAR. RUN THE 2" GAS LINE THROUGH THE BLOCK, INTO THE MECHANICAL ROOM. PROVIDE A 2"-TEE FITTING CAPPED OFF INSIDE THE BUILDING FOR FUTURE USE AND CONTINUE GAS LINE TO AIR HANDLER SYSTEM FOR A FUNCTIONAL SYSTEM.



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2/15/13

DOUGLAS A. RECORD
REGISTERED PROFESSIONAL ENGINEER
NUMBER 4090000004

PLUMBING PLAN

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FACILITIES MANAGEMENT

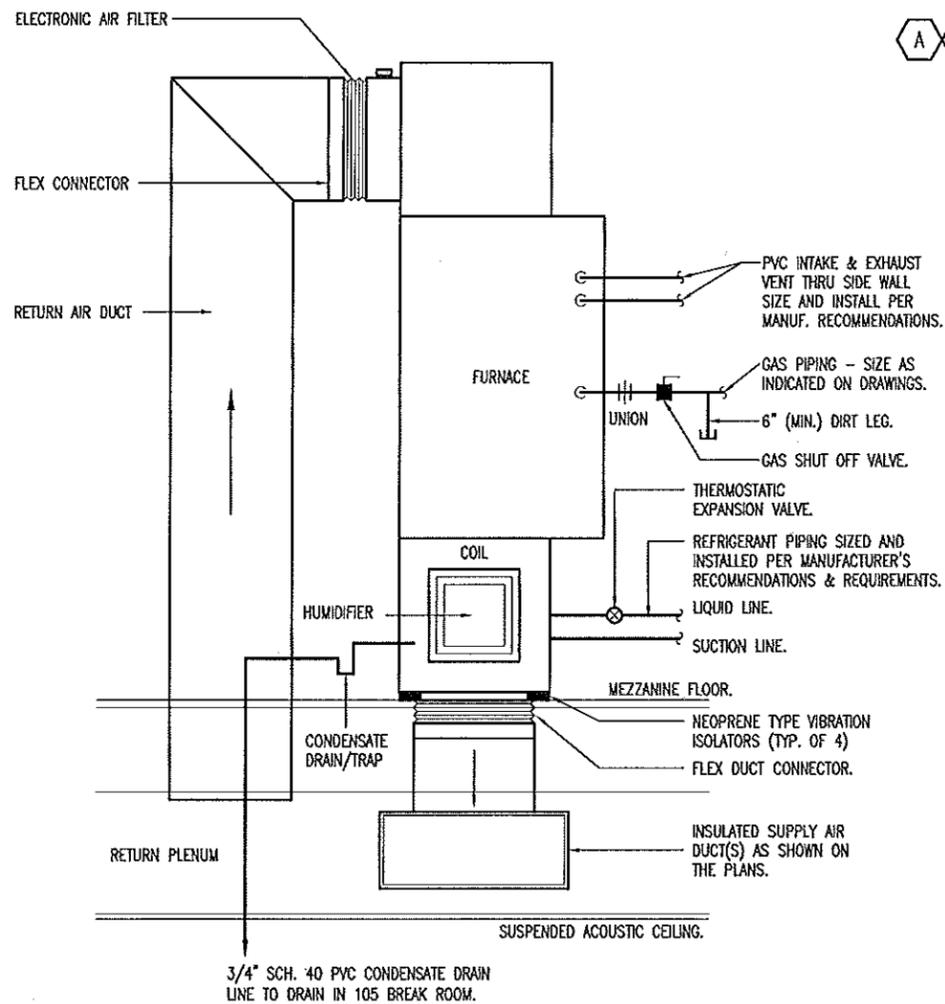
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CONDENSING UNIT ON CONCRETE PAD PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR.

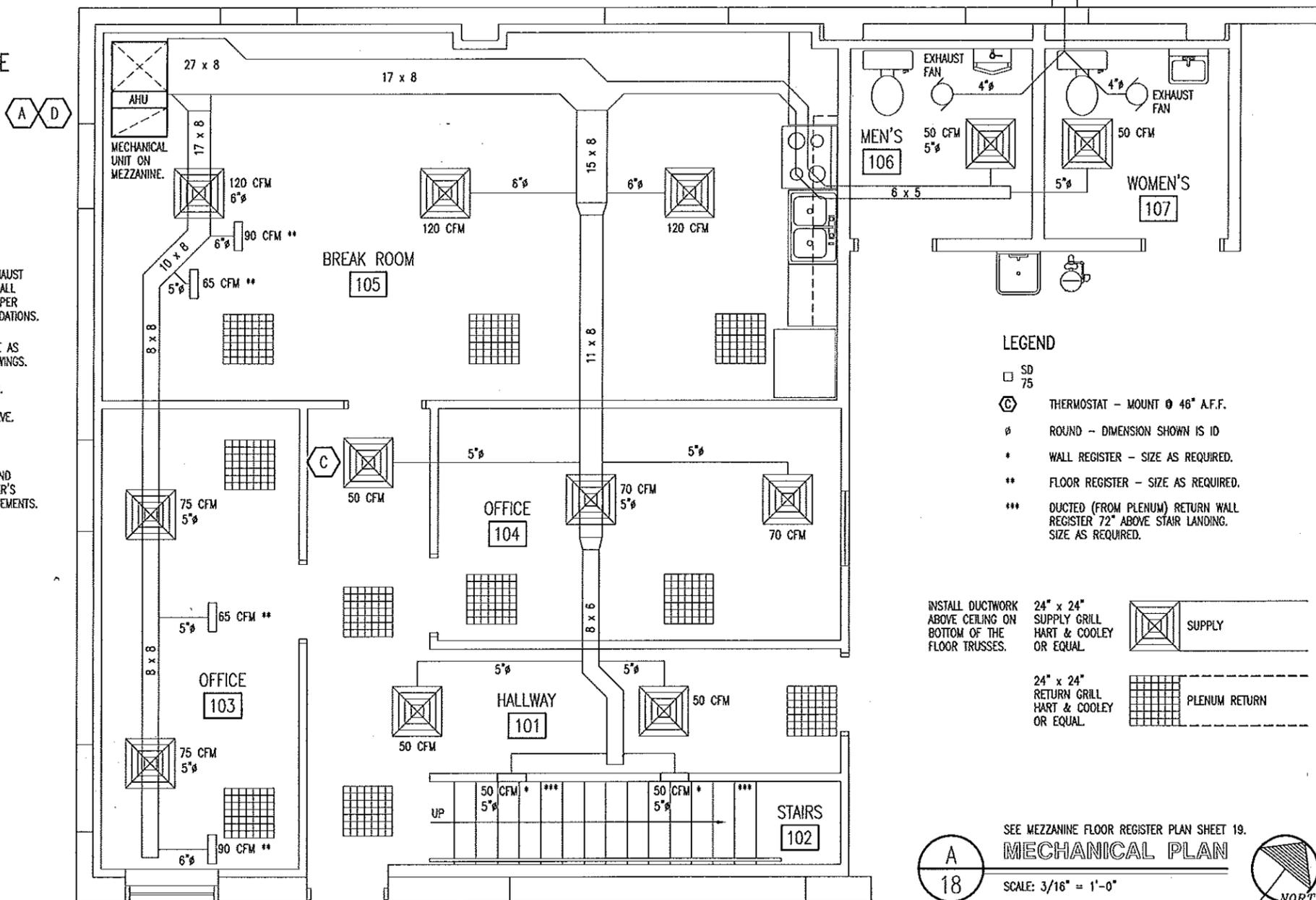
COMBINE REST ROOM EXHAUST FANS AND VENT THROUGH WALL WITH WALL CAP AND SEALANT AT PERIMETERS.

SEE SHEET 9 FOR HVAC SCHEDULE



GAS FURNACE INSTALLATION

NOT TO SCALE



- LEGEND**
- SD 75
 - ⊙ THERMOSTAT - MOUNT 46" A.F.F.
 - ⊘ ROUND - DIMENSION SHOWN IS ID
 - * WALL REGISTER - SIZE AS REQUIRED.
 - ** FLOOR REGISTER - SIZE AS REQUIRED.
 - *** DUCTED (FROM PLENUM) RETURN WALL REGISTER 72" ABOVE STAIR LANDING. SIZE AS REQUIRED.

INSTALL DUCTWORK ABOVE CEILING ON BOTTOM OF THE FLOOR TRUSSES.

24" x 24" SUPPLY GRILL HART & COOLEY OR EQUAL

24" x 24" RETURN GRILL HART & COOLEY OR EQUAL

SEE MEZZANINE FLOOR REGISTER PLAN SHEET 19.

MECHANICAL PLAN

SCALE: 3/16" = 1'-0"

A
18

NORTH

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2/5/13

DOUGLAS A. RECORD
REGISTERED PROFESSIONAL ENGINEER
NUMBER A-2013302224

MECHANICAL PLAN

MISSOURI DEPARTMENT OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

ST. CHARLES MAINTENANCE BUILDING RENOVATION
St. Louis District
St. Charles County

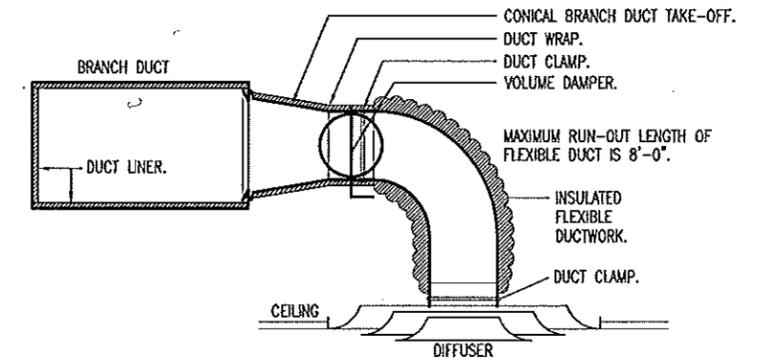
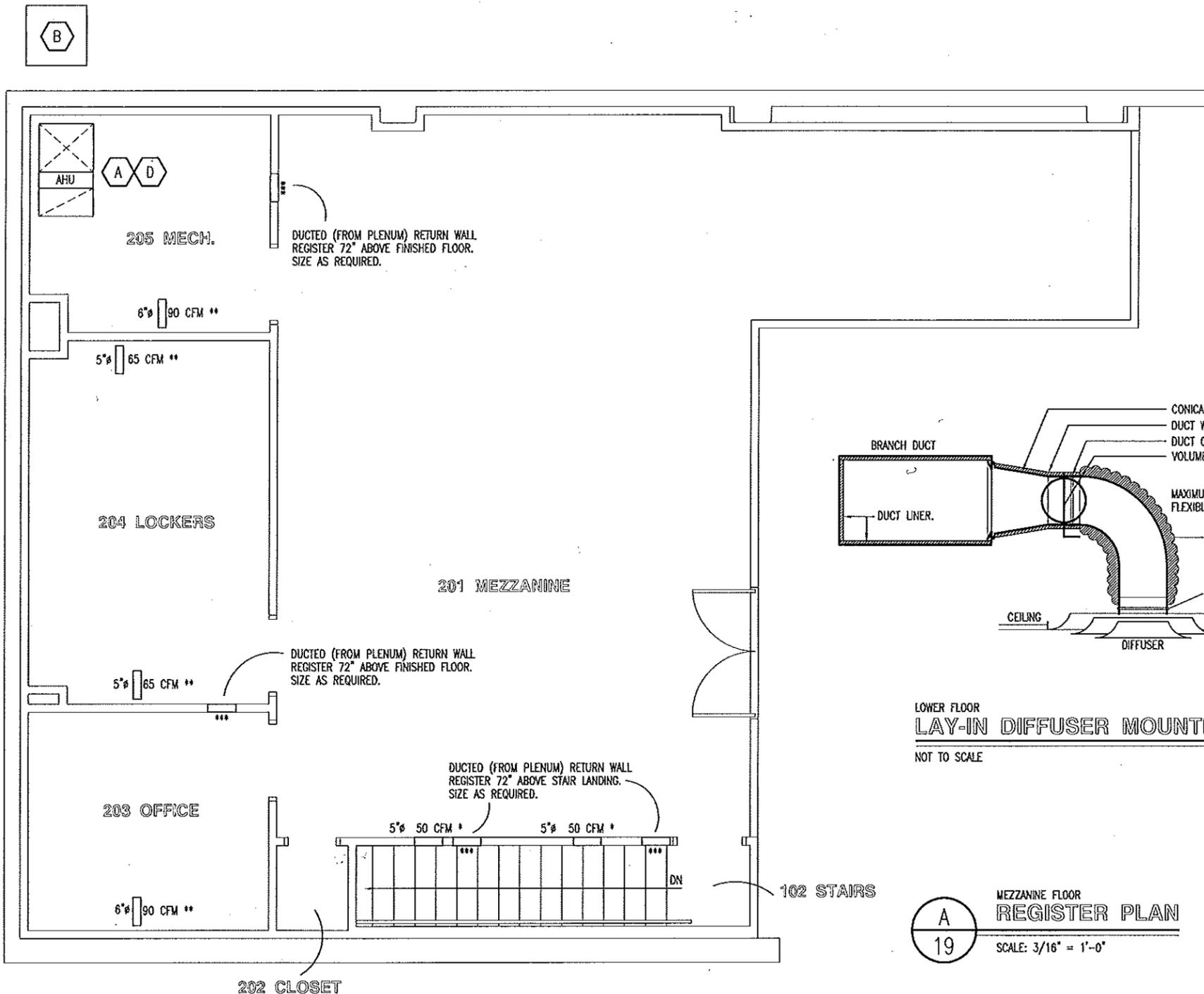
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MECHANICAL NOTES

- SUPPLY AND INSTALL EQUIPMENT & MATERIALS IN ACCORDANCE WITH THE LATEST NATIONAL ELECTRIC AND PLUMBING CODES.
- INSTALL ALL NECESSARY EQUIPMENT AND APPURTENANCES TO FACILITATE A COMPLETE FUNCTIONING SYSTEM IN ACCORDANCE WITH ALL MECHANICAL AND ELECTRICAL CODES ACCORDING TO THE PLANS AND SPECIFICATIONS.
- MECHANICAL SUBCONTRACTOR SHALL FULLY COORDINATE ALL WORK WITH PLUMBING AND ELECTRICAL WORKERS PRIOR TO BEGINNING OF THE MECHANICAL INSTALLATION.
- DRAWINGS AND DIAGRAMS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR THE DIMENSIONS.
- PROVIDE BLOCKING TO HVAC DEVICES AS REQUIRED FOR SECURE APPLICATION.
- PROVIDE CONDENSATION PVC DRAIN LINE AS REQUIRED FOR THE FORCED AIR GAS FURNACE ON TOP OF 201 MEZZANINE TO 105 BREAK ROOM.
- 6" CONCRETE PAD FOR THE CONDENSATION UNIT BY THE GENERAL CONTRACTOR. FOOTPRINT SIZE AS REQUIRED.
- ALL EQUIPMENT AND MATERIALS, IN PARTICULAR VALVES, FILTERS, MOTORS AND CONTROLS SHALL BE ARRANGED TO PROVIDE PROPER CLEARANCE FOR SERVICE, MAINTENANCE AND INSPECTION.
- SEE REFLECTED CEILING PLAN FOR EXACT DIFFUSER LOCATIONS.

SEE SHEET 9 FOR HVAC SCHEDULE

SEE MECHANICAL LEGEND SHEET 18.



LOWER FLOOR LAY-IN DIFFUSER MOUNTING

NOT TO SCALE

MEZZANINE FLOOR REGISTER PLAN
SCALE: 3/16" = 1'-0"



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REGISTER
A-20130102024

2/5/13

Mezzanine Floor Register Plan

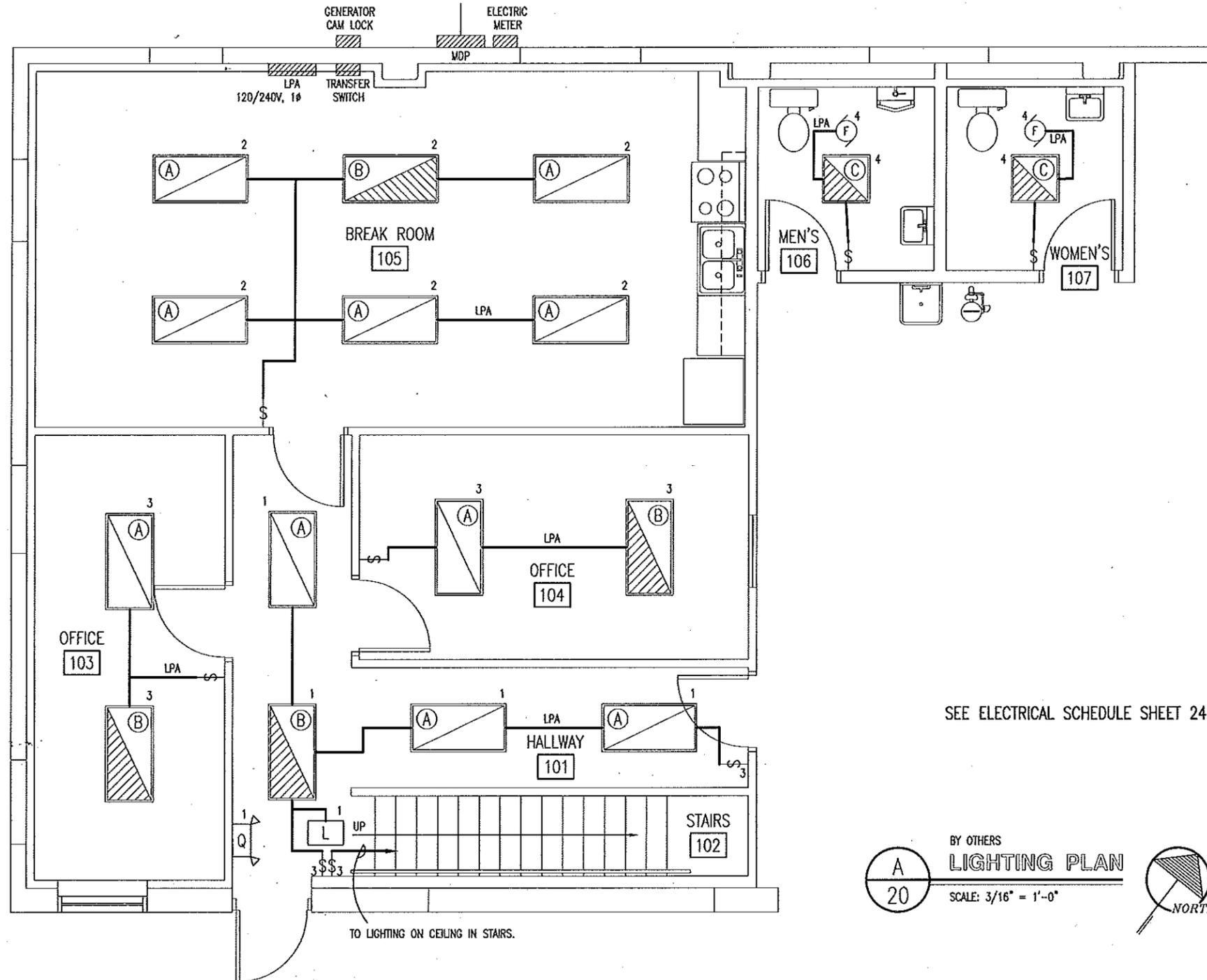
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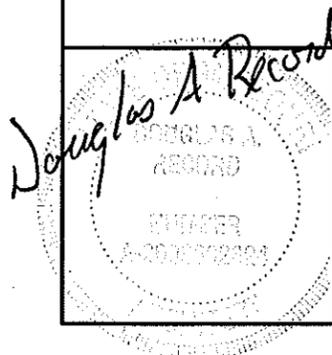
MAIN DISTRIBUTION PANEL (MDP)
LPA, LPB, GENERATOR CAM LOCK,
AND TRANSFER SWITCH BY OTHERS
COORDINATE DURING CONSTRUCTION.

CONTRACTOR TO PROVIDE AND INSTALL
BREAKERS IN THE MDP FOR LPA AND
LPB. PROVIDE CONDUIT & CONDUCTORS
TO MDP FOR A FUNCTIONAL SYSTEM.



SEE ELECTRICAL SCHEDULE SHEET 24.

BY OTHERS
A
20
LIGHTING PLAN
SCALE: 3/16" = 1'-0"
NORTH



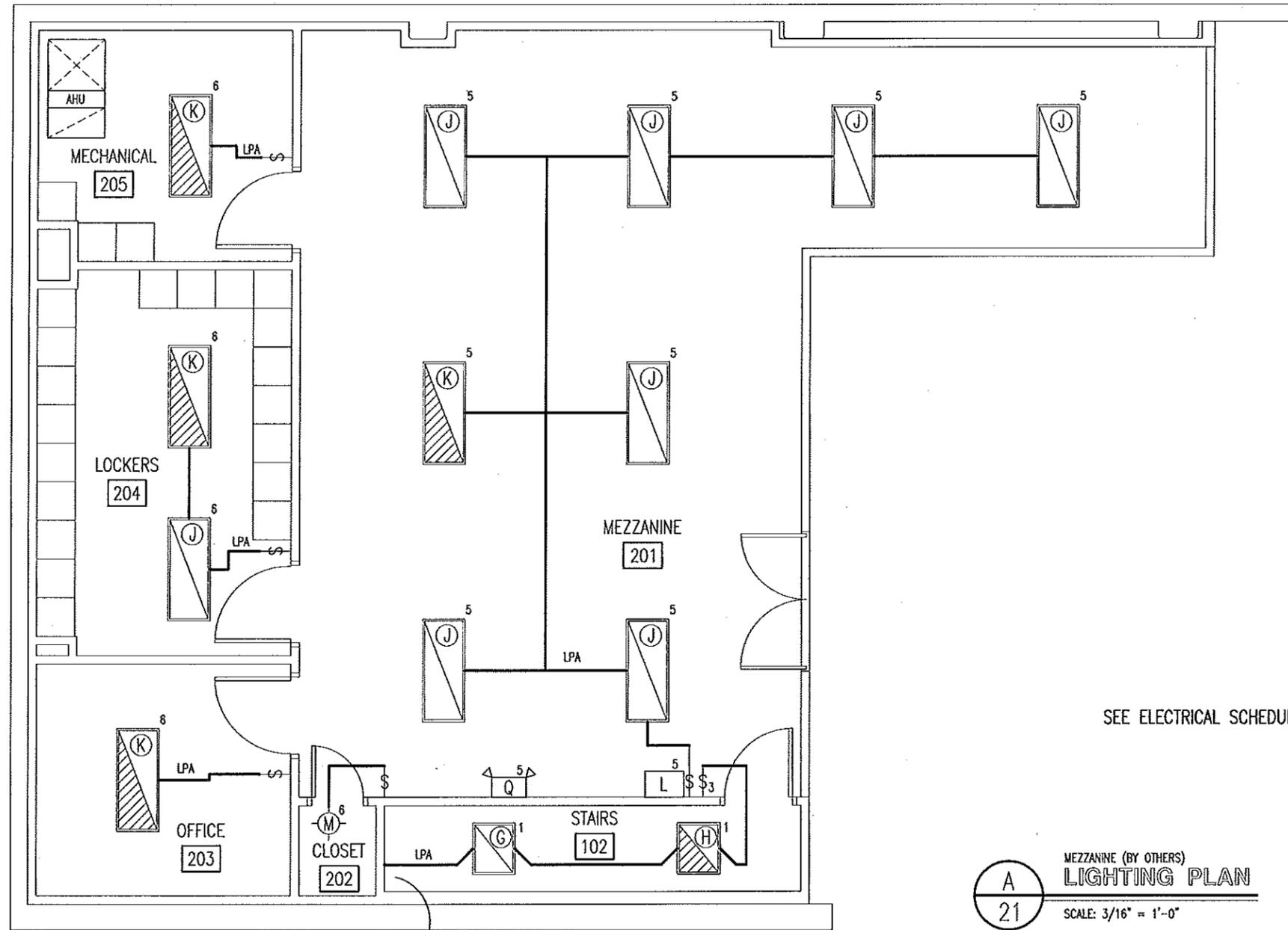
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LIGHTING PLAN

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FACILITIES MANAGEMENT

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SEE ELECTRICAL SCHEDULE SHEET 24.

A
21
MEZZANINE (BY OTHERS)
LIGHTING PLAN
SCALE: 3/16" = 1'-0"



TO 3-WAY SWITCH AT BOTTOM OF STAIRS.

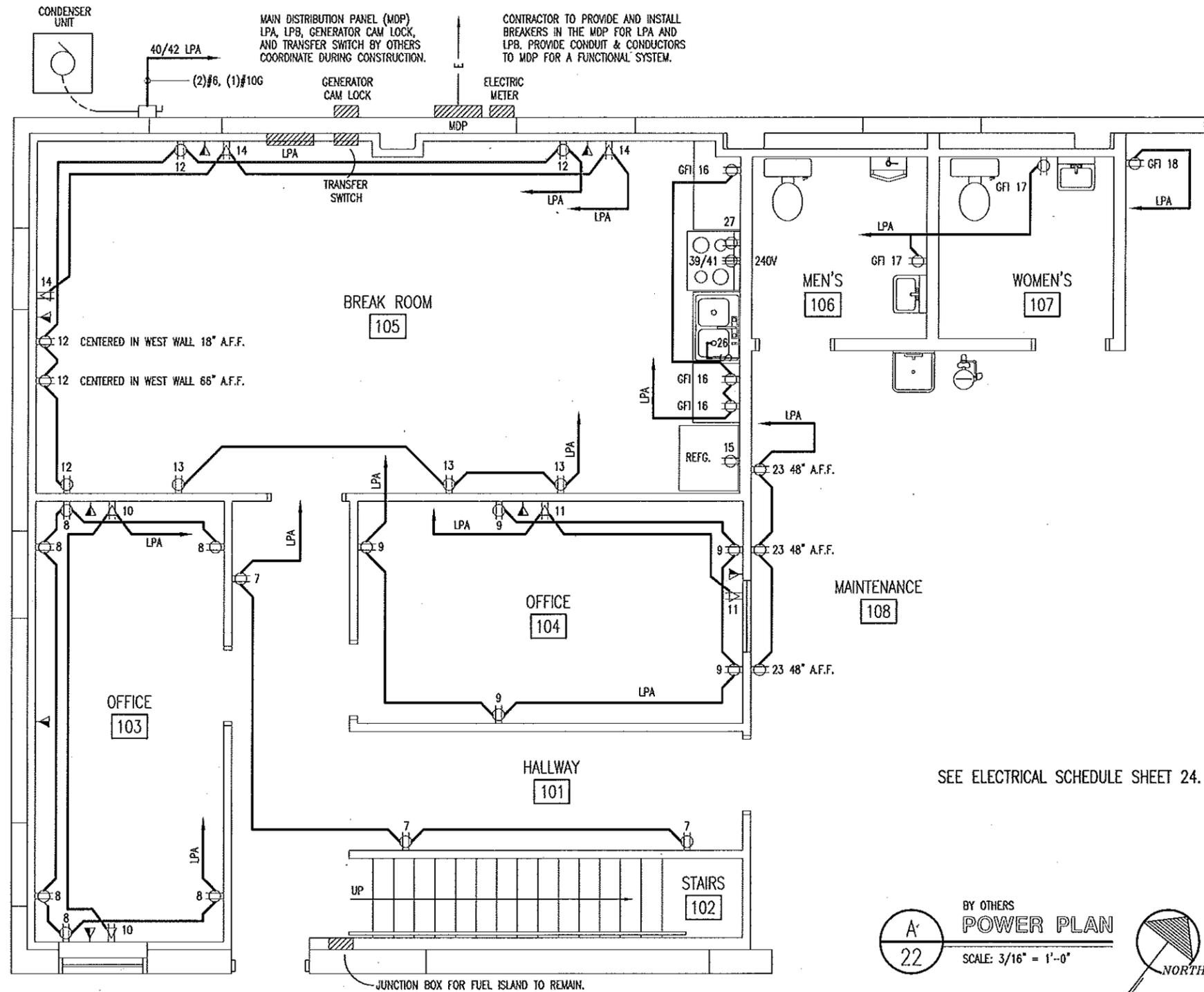
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MEZZANINE LIGHTING PLAN

MISSOURI DEPARTMENT
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FACILITIES MANAGEMENT

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SEE ELECTRICAL SCHEDULE SHEET 24.

BY OTHERS
POWER PLAN
 SCALE: 3/16" = 1'-0"
 NORTH

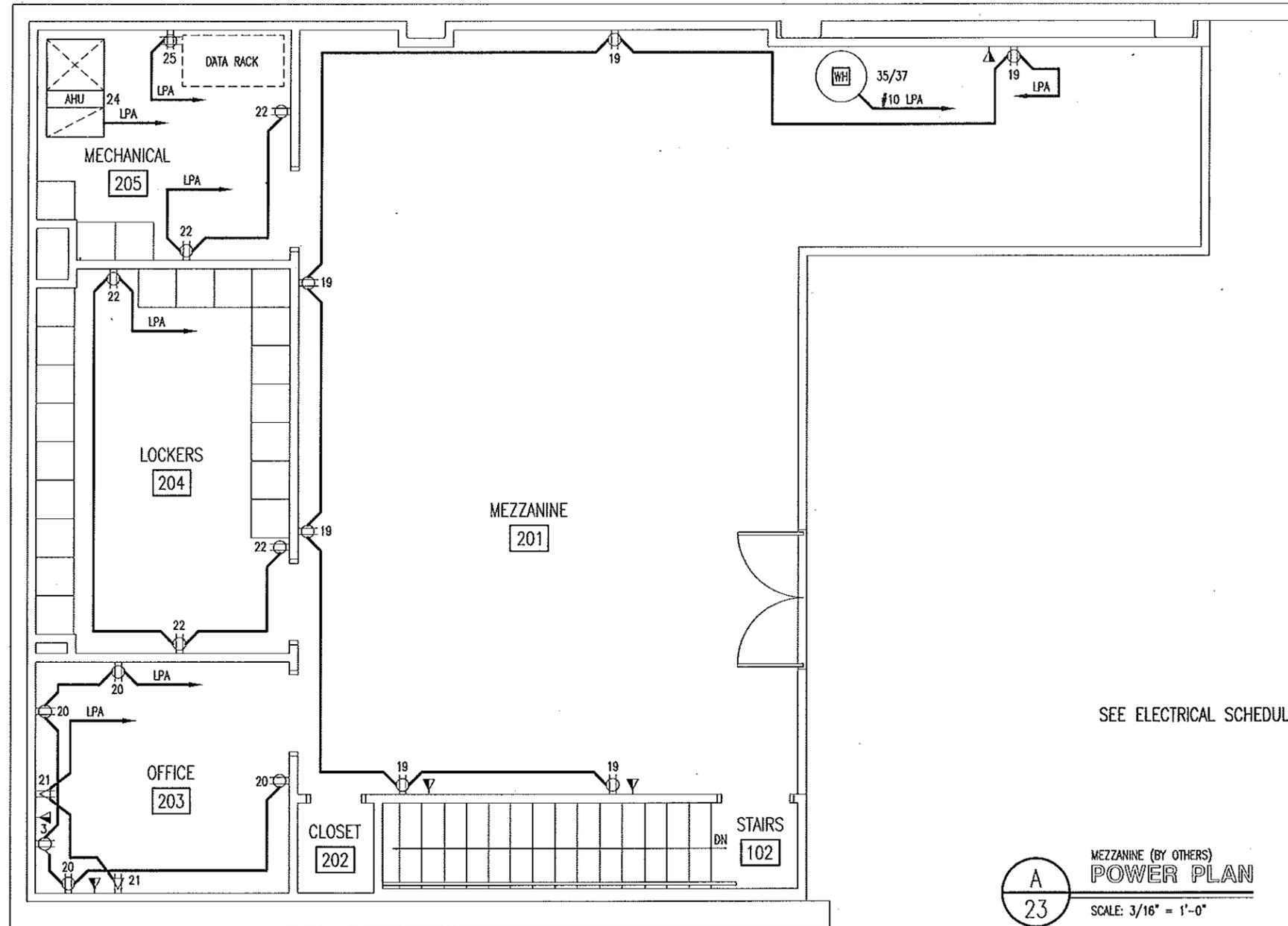
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POWER PLAN

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 DIVISION OF GENERAL SERVICES
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SEE ELECTRICAL SCHEDULE SHEET 24.

A
23
MEZZANINE (BY OTHERS)
POWER PLAN
SCALE: 3/16" = 1'-0"



Douglas A. Record
 DUGLAS A. RECORD
 LICENSED ARCHITECT
 MISSOURI

2/5/13

MEZZANINE POWER PLAN

MISSOURI DEPARTMENT
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ST. CHARLES MAINTENANCE BUILDING RENOVATION
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