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CODE REQUIREMENTS

BUILDING CODE - 2003 IBC
 ELECTRICAL CODE - CURRENT N.E.C.

MISSOURI DEPARTMENT OF TRANSPORTATION

DISTRICT 4 - 650 MULBERRY STORAGE BUILDING

JACKSON COUNTY KANSAS CITY, MISSOURI

ALTERNATE CONDITIONS:

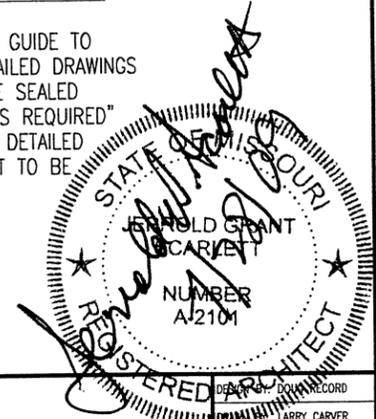
THE VARYING MAKEUP OF SOILS AND OCCURRENCE OF ROCK IN MANY MODOT DISTRICTS MAY REQUIRE CONSIDERABLE REDESIGN OF THE POST PLACEMENT BELOW GRADE FROM THAT SHOWN IN THESE DRAWINGS. THE BIDDER WILL BE RESPONSIBLE FOR OBTAINING ACCURATE INFORMATION FROM THE DISTRICTS FACILITIES MANAGER (I.E. DRILLINGS OR BORINGS INFORMATION 5'-0" DEEP AT EACH BUILDING CORNER AND AT LEAST ONE INTERMEDIATE SAMPLE TO THIS DEPTH ON THE LONG SIDES OF THE PROPOSED STRUCTURE) SO THAT THE BID WILL REFLECT ANY FOUNDATION REQUIREMENTS BEYOND THOSE SHOWN HERE. INFORMATION COULD INCLUDE PREVIOUS EXCAVATIONS THAT VERIFY FOOTING CONDITIONS THAT WILL BE ENCOUNTERED BY THIS CONTRACTOR.

REQUIRED BUILDING ELEMENTS:

- 2 x 6 WALL GIRTS - #2 SYP OR EQUAL.
- FINISH COAT ON 29 GAUGE METAL SIDING TO BE FLOUROPOLYMER (KYNAR 500 OR EQUAL. POLYESTER IS NOT ACCEPTABLE.
- CONNECTION OF ROOF TRUSS TO POST OR HEADER TO BE EQUAL TO SIMPSON TIE #HD-1 OR HD2A.
- POSTS TO BE A MINIMUM OF 4'-0" BELOW GRADE IN COMPACTED SOIL.

FABRICATOR NOTES:

THESE DRAWINGS ARE FURNISHED AS A GUIDE TO BIDDERS IN SUBMITTING COMPLETE DETAILED DRAWINGS OF THEIR PROPOSED STRUCTURE TO BE SEALED BY AN ARCHITECT/ENGINEER. WHERE "AS REQUIRED" IS USED THE BIDDER MUST FURNISH A DETAILED DESCRIPTION OF THE BUILDING ELEMENT TO BE FURNISHED.



DISTRICT 4 - 650 MULBERRY
STORAGE BUILDING

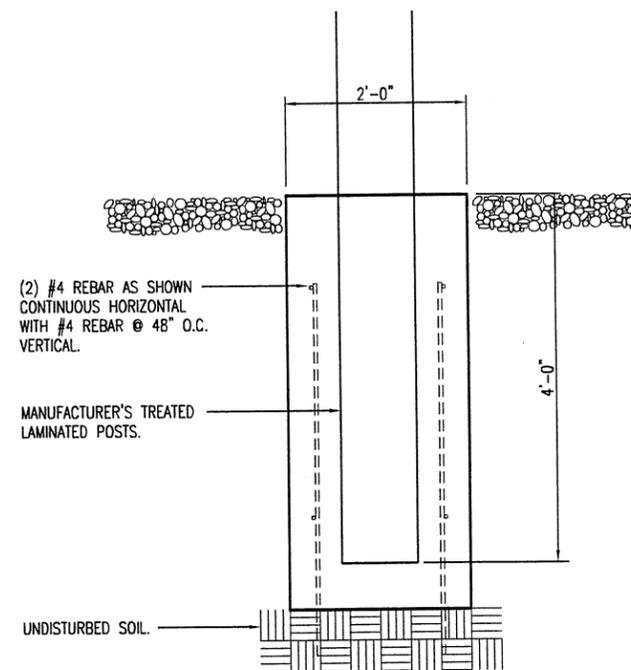
MISSOURI DEPARTMENT
OF TRANSPORTATION
GENERAL SERVICES
FACILITIES MANAGEMENT

Cover Sheet

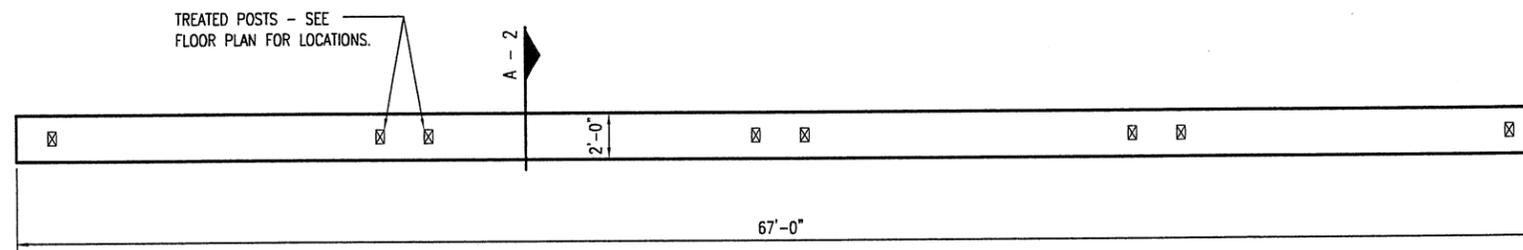
DATE: 5-29-09
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SHEET
1 of 12

CONCRETE NOTES

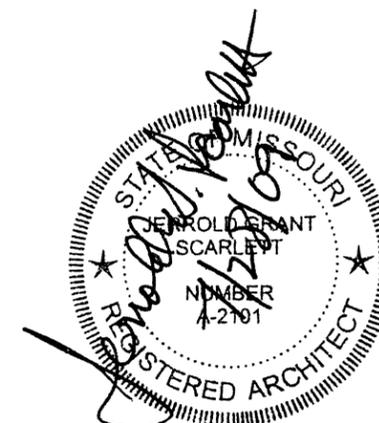
1. CONCRETE WORK SHALL BE EXECUTED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE AMERICAN CONCRETE INSTITUTE (A.C.I.) MANUAL OF CONCRETE PRACTICE.
2. FOUNDATION DESIGN IS BASED UPON AN ASSUMED SOIL BEARING CAPACITY OF 2000 PSF. IF WET OR UNUSUAL SOIL CONDITIONS ARE ENCOUNTERED, NOTIFY THE DESIGNER 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" TO 5" SLUMP.
5. FOUNDATION PIERS AND FOOTINGS SHALL BEAR A MINIMUM OF 12 INCHES INTO UNDISTURBED SOIL AND 36 INCHES MINIMUM BELOW FINISH GRADE.
6. DEFORMED STEEL REINFORCING BARS SHALL BE: #4 AND LARGER ASTM A615 GRADE 60.
7. SEE SPECIFICATION SECTION 03300 CONCRETE FOR ADDITIONAL INFORMATION.



A FOUNDATION DETAIL
2 SCALE: 1/2" = 1'-0"



B FOUNDATION @ OVERHEAD DOORS
2 SCALE: 1/8" = 1'-0"

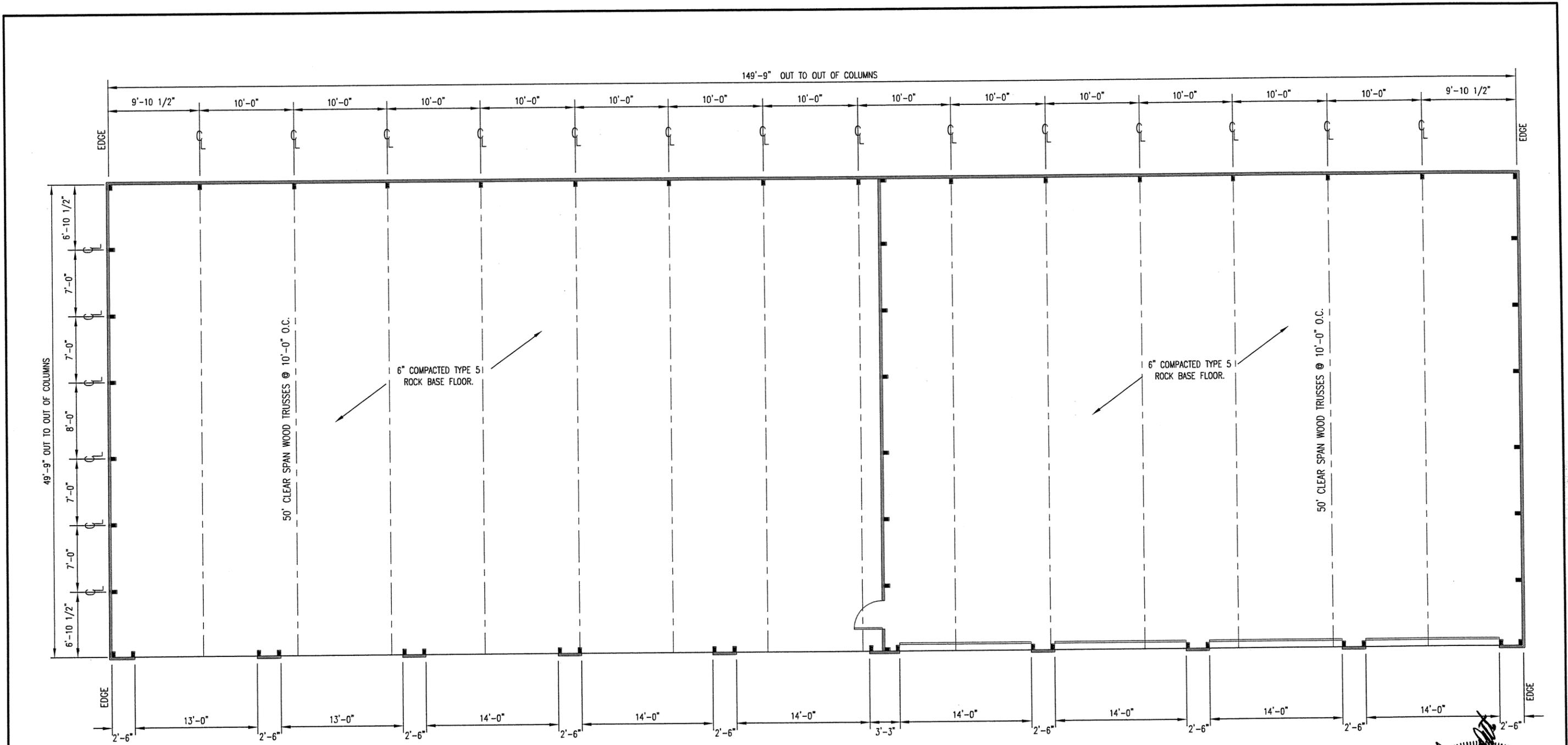


DISTRICT 4 - 650 MULBERRY
 STORAGE BUILDING

MISSOURI DEPARTMENT
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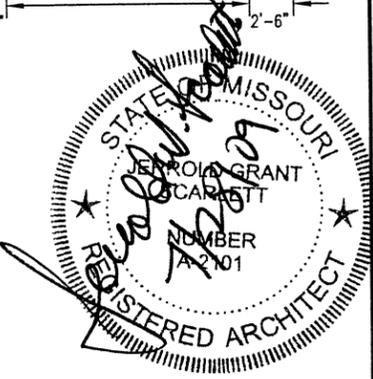
Foundation Plan & Details

DESIGN BY: DOUG RECORD
 DRAWN BY: LARRY CARVER
 DATE: 5-29-09
 CHECK BY: JERROLD SCARLETT
 SHEET 2 OF 12



A
3

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

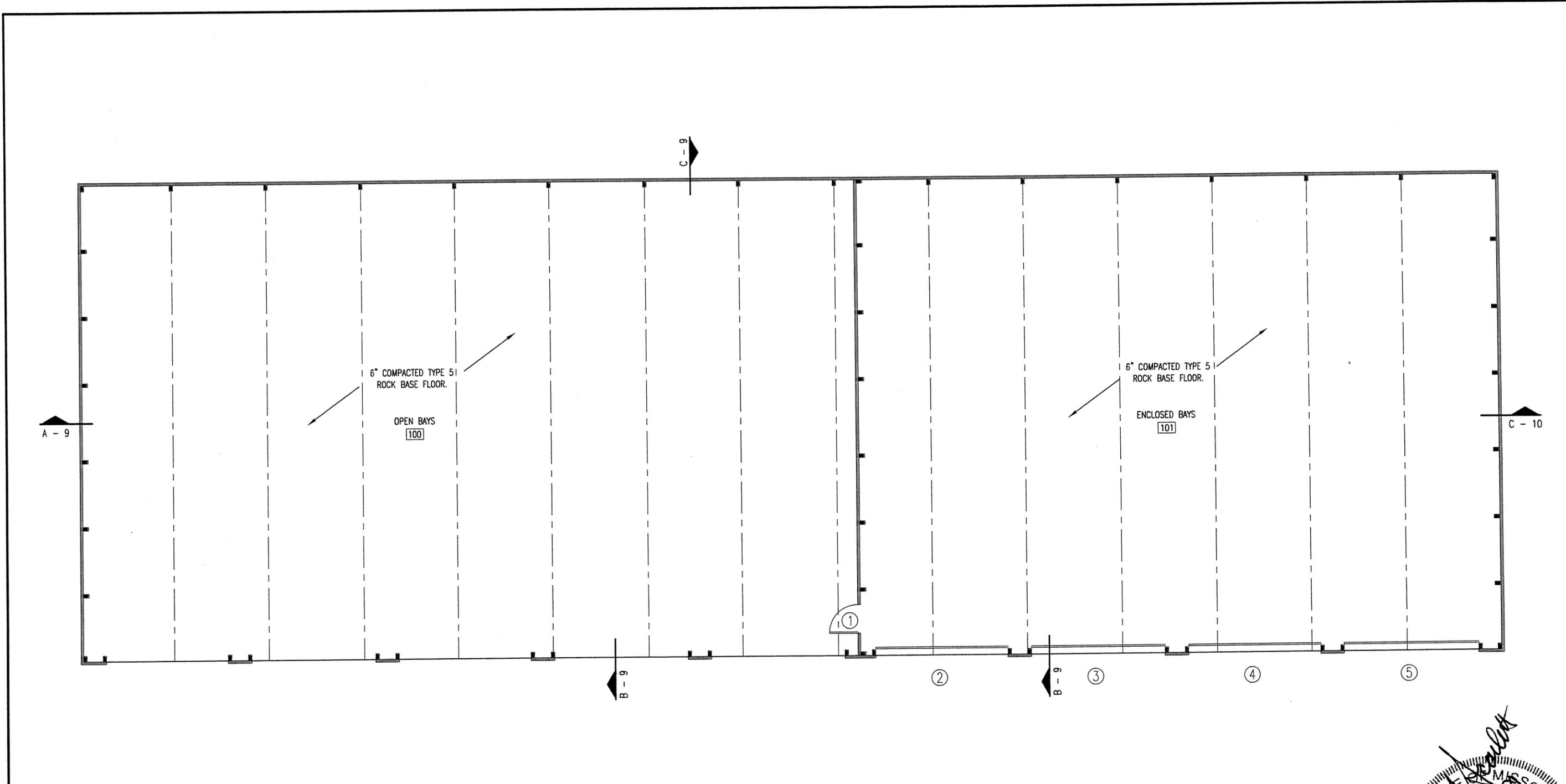


**DISTRICT 4 - 650 MULBERRY
 STORAGE BUILDING**

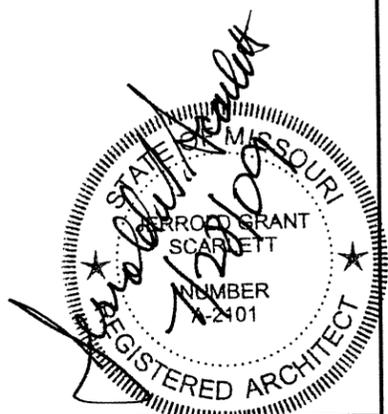
**MISSOURI DEPARTMENT
 OF TRANSPORTATION**
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Dimensional Floor Plan

DESIGN BY: DOUG RECORD
DRAWN BY: LARRY CARVER
DATE: 5-29-09
CHECK BY: JERROLD SCARLETT
SHEET 3 of 12



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



DISTRICT 4 - 650 MULBERRY
STORAGE BUILDING

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GENERAL SERVICES
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Architectural Floor Plan

DESIGN BY: DOUG RECORD
DRAWN BY: LARRY CARVER
DATE: 5-29-09
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SHEET 4 OF 12

DOOR SCHEDULE

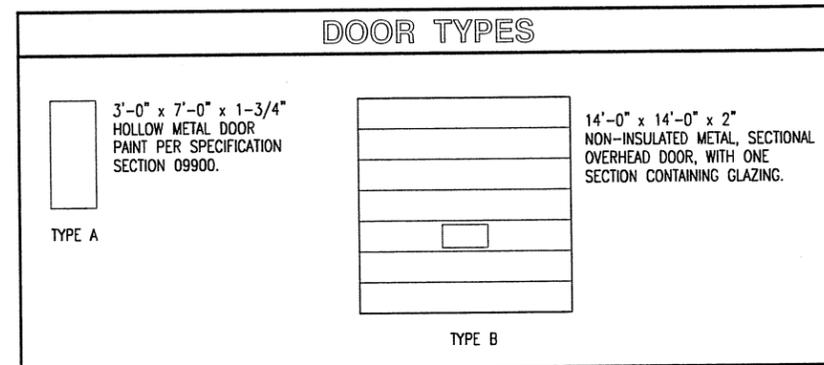
MARK	SWING	DOOR SIZE	DOOR MATERIAL	DOOR TYPE	FRAME MATR	FRAME TYPE	HEAD	HARDWARE GROUP
1	RHR	3'-0" x 7'-0" x 1-3/4"	METAL	A	MTL.	I	A-8	*
2	OH	14'-0" x 14'-0" x 2"	METAL	B	MTL.	-	B-8	-
3	OH	14'-0" x 14'-0" x 2"	METAL	B	MTL.	-	B-8	-
4	OH	14'-0" x 14'-0" x 2"	METAL	B	MTL.	-	B-8	-
5	OH	14'-0" x 14'-0" x 2"	METAL	B	MTL.	-	B-8	-

* EQUAL TO STANLEY 1-1/2 PR. HINGES, FBB179 4 1/2 x 4 1/2 US26D + EQUAL TO BEST STOREROOM LOCKSET 93K-7-D-15D-S3-626 US26D, PROVIDE SILENCERS AS REQUIRED.

GENERAL NOTES:

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

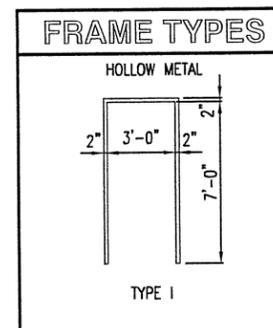
DOOR TYPES



ROOM FINISH SCHEDULE

NO.	ROOM	FLOORS	BASE	WALLS	CEILING
		AGGREGATE BASE	NONE	EXPOSED CONSTRUCTION	EXPOSED CONSTRUCTION
100	ENCLOSED BAYS	●	●	●	●
101	OPEN BAYS	●	●	●	●

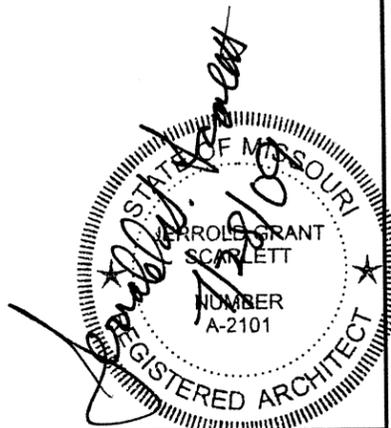
FRAME TYPES



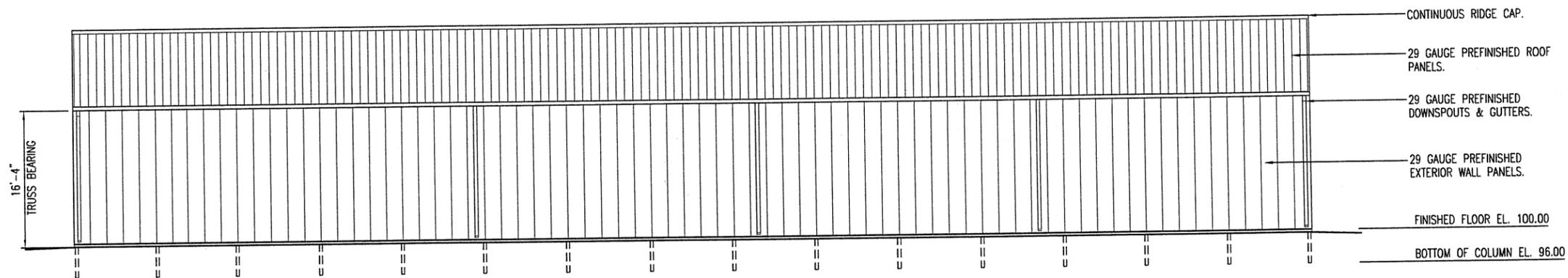
DISTRICT 4 - 650 MULBERRY
STORAGE BUILDING

MISSOURI DEPARTMENT
OF TRANSPORTATION
GENERAL SERVICES
FACILITIES MANAGEMENT

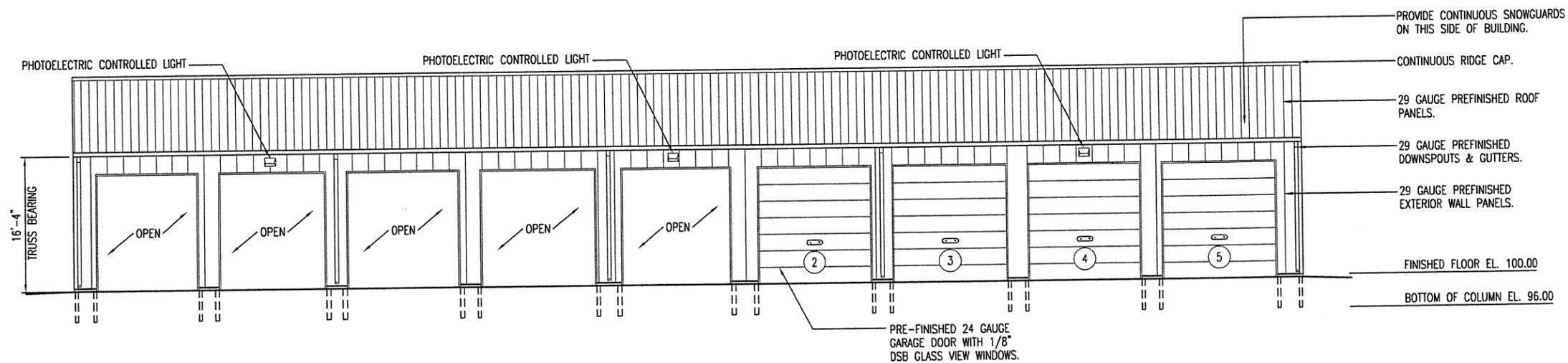
Schedules



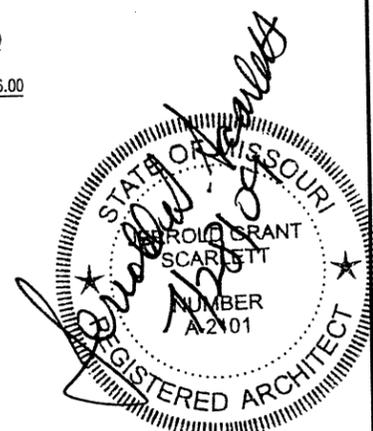
DESIGN BY: DOUG RECORD
DRAWN BY: LARRY CARVER
DATE: 5-29-09
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SHEET 5 OF 12



B REAR ELEVATION
6 SCALE: 1/16" = 1'-0"



A FRONT ELEVATION
6 SCALE: 1/16" = 1'-0"

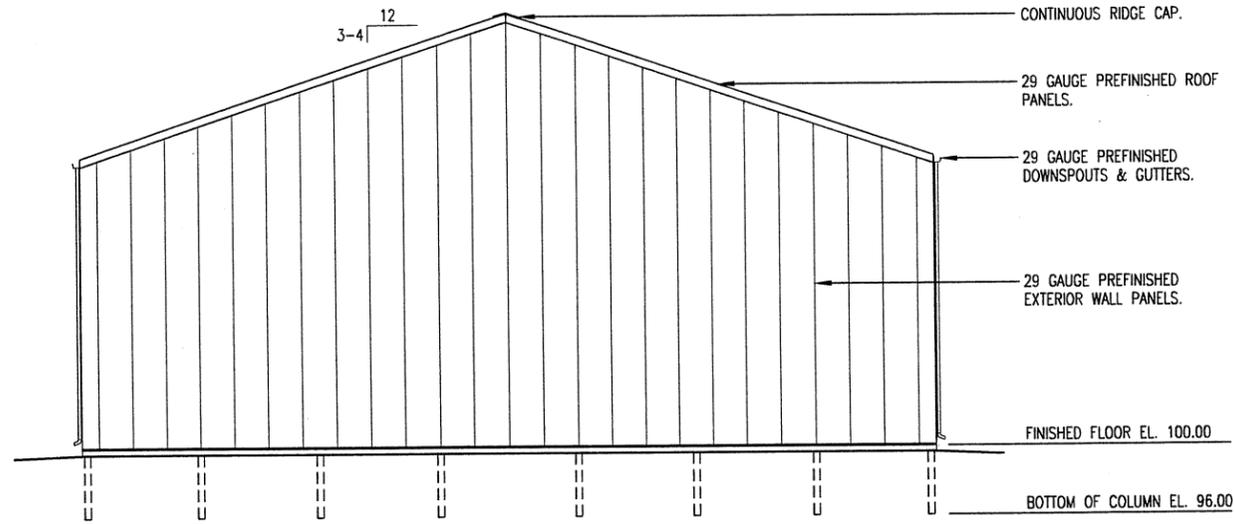


DISTRICT 4 - 650 MULBERRY
 STORAGE BUILDING

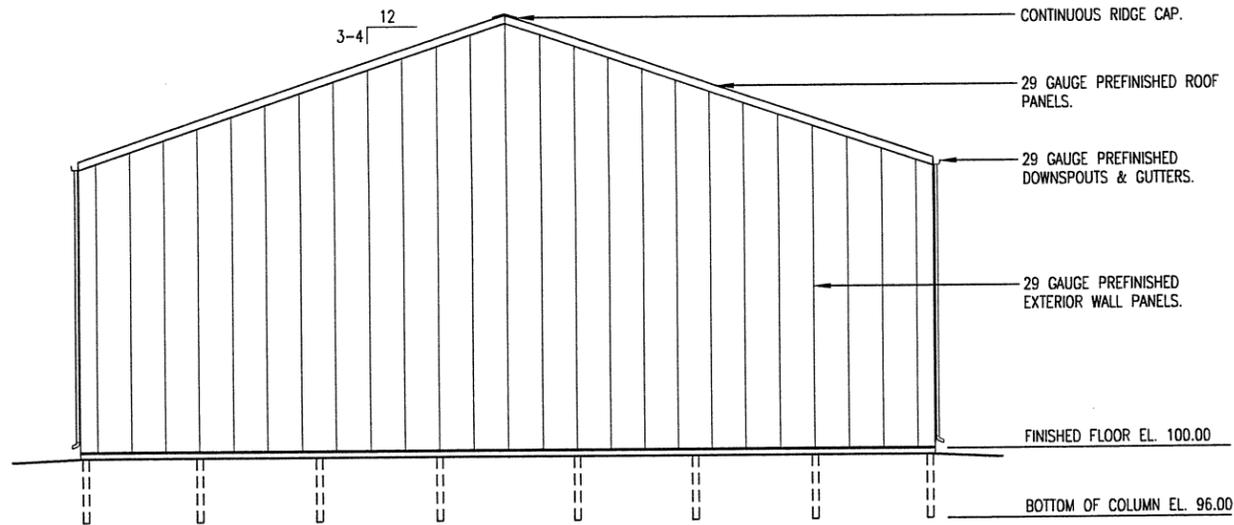
MISSOURI DEPARTMENT
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 GENERAL SERVICES
 FACILITIES MANAGEMENT

Front & Rear Elevations

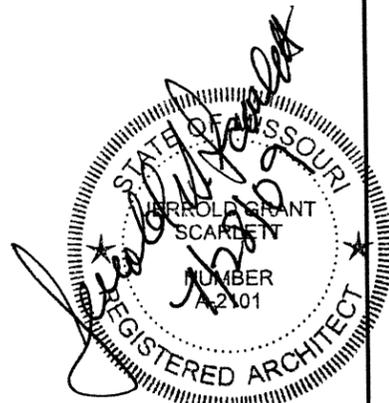
DESIGN BY: DOUG RECORD
 DRAWN BY: LARRY CARVER
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 SHEET 6 OF 12



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



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

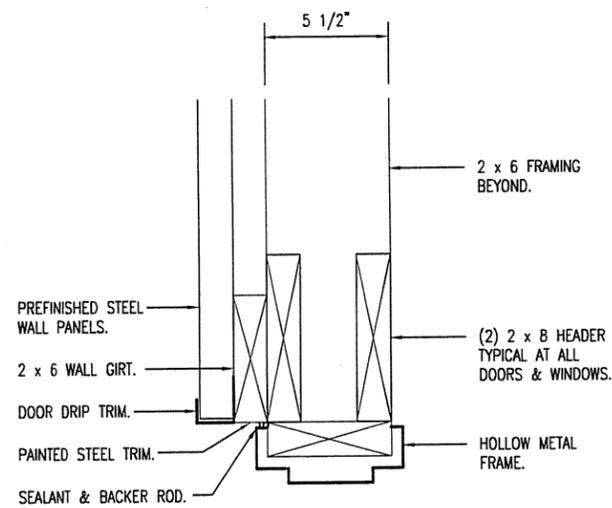


DISTRICT 4 - 650 MULBERRY
 STORAGE BUILDING

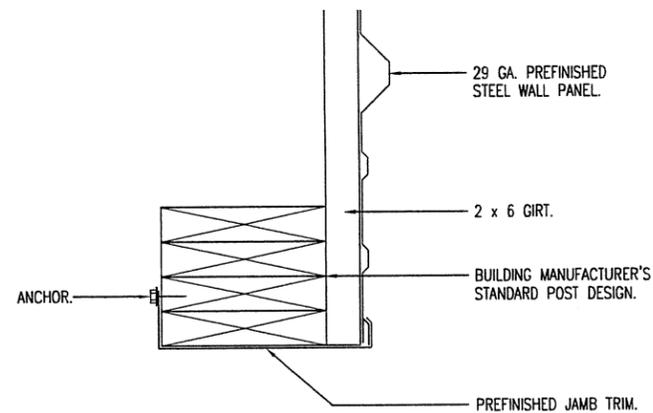
MISSOURI DEPARTMENT
 OF TRANSPORTATION
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Left & Right Elevations

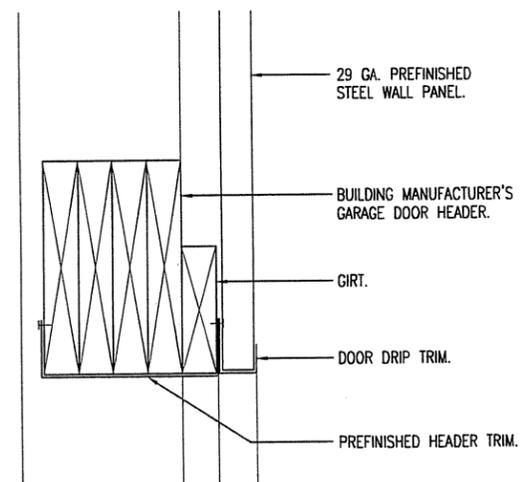
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 DRAWN BY: LARRY CARVER
 DATE: 5-29-09
 CHECK BY: JERROLD SCARLETT
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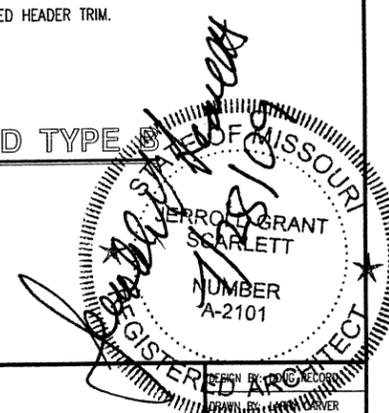
A DOOR HEADER/JAMB TYPE A
 8 SCALE: 1-1/2" = 1'-0"



B GARAGE DOOR JAMB TYPE B
 8 SCALE: 1-1/2" = 1'-0"



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

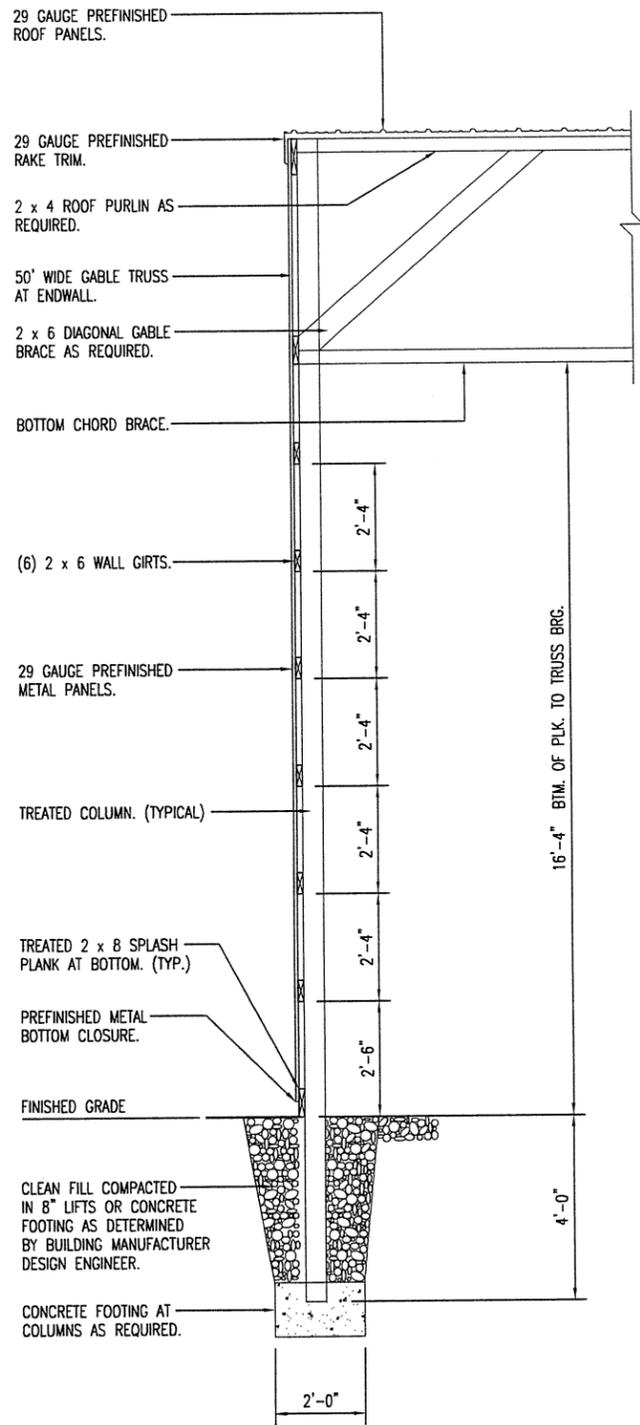


DISTRICT 4 - 650 MULBERRY
 STORAGE BUILDING

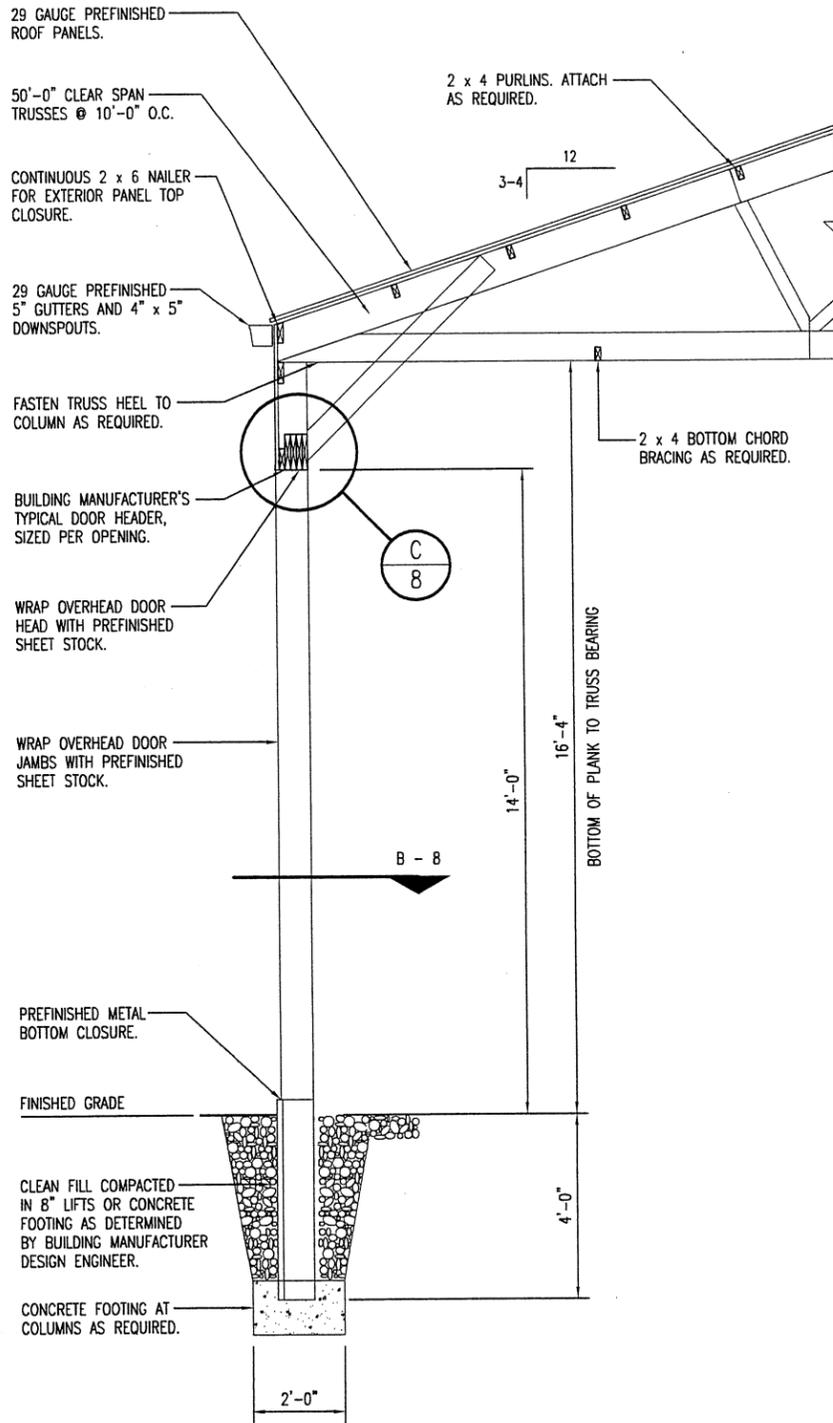
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Head & Jamb Details

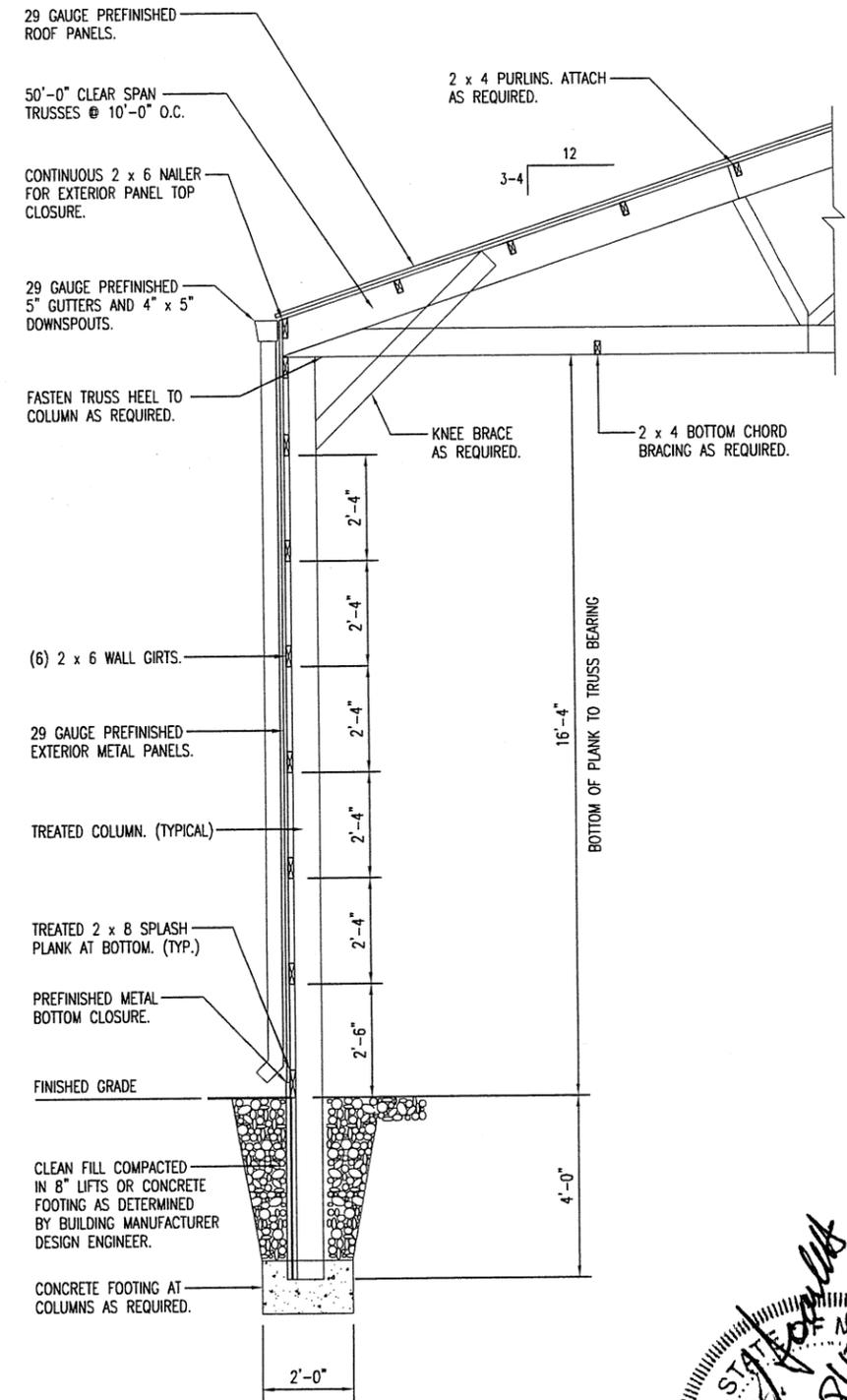
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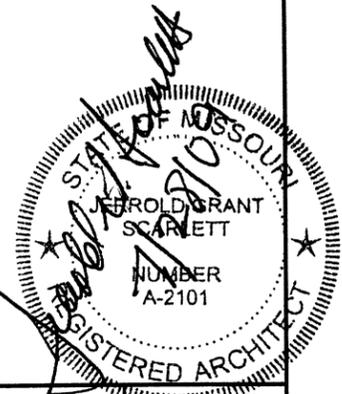
A ENDWALL SECTION
 9 SCALE: 1/4" = 1'-0"



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



C SIDEWALL SECTION
 9 SCALE: 1/4" = 1'-0"



DISTRICT 4 - 650 MULBERRY
 STORAGE BUILDING

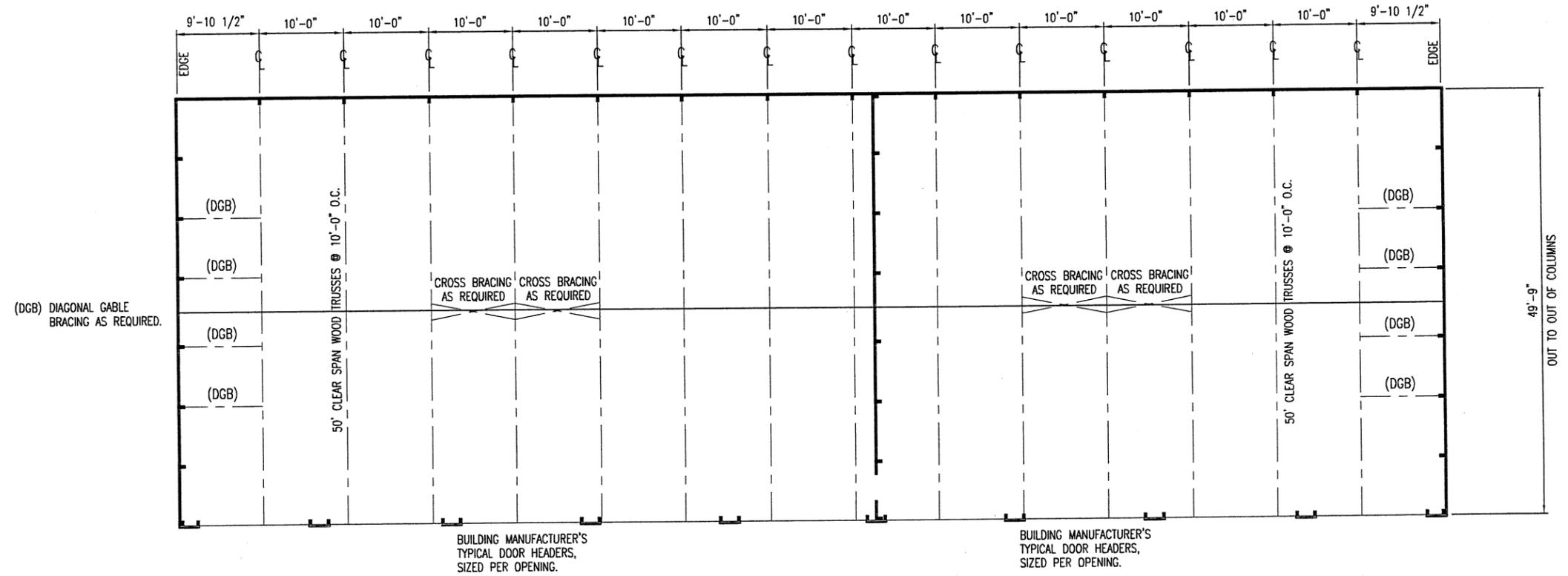
MISSOURI DEPARTMENT
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Wall Sections

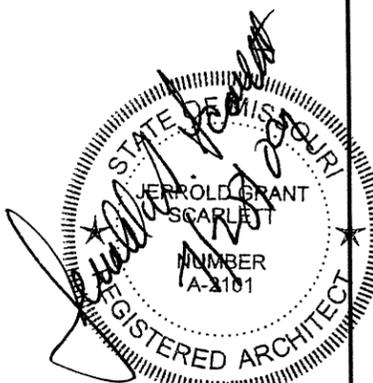
RECORD
 DRAWN BY: LARRY CARVER
 DATE: 5-29-09
 CHECK BY: JERROLD SCARLETT
 SHEET 9 OF 12

ROOF FRAMING NOTES

- | | |
|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. DESIGN LOADING FOR ROOF TRUSSES SHALL MEET THE FOLLOWING CRITERIA: | 2. TRUSS DESIGN SUBMITTALS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MISSOURI. |
| ROOF LIVE LOAD 20 PSF | |
| ROOF DEAD LOAD 4 PSF | |
| BOTTOM CORD DEAD LOAD 5 PSF | |
| EARTHQUAKE ZONE 1, LATEST EDITION IBC | |
| WIND 90 MPH, EXPOSURE B | |
| DEFLECTION L/360 | |
| SPACING AS REQUIRED. | |
| | 3. ROOF TRUSSES AND RAFTERS SHALL BE ANCHORED TO THE TOP PLATE OF LOAD BEARING WALLS WITH SEISMIC AND HURRICANE ANCHORS EQUAL TO SIMPSON STRONG TIE #H1 ANCHORS. |



A ROOF FRAMING PLAN
10 SCALE: 1/16" = 1'-0"



DISTRICT 4 - 650 MULBERRY
 STORAGE BUILDING

MISSOURI DEPARTMENT
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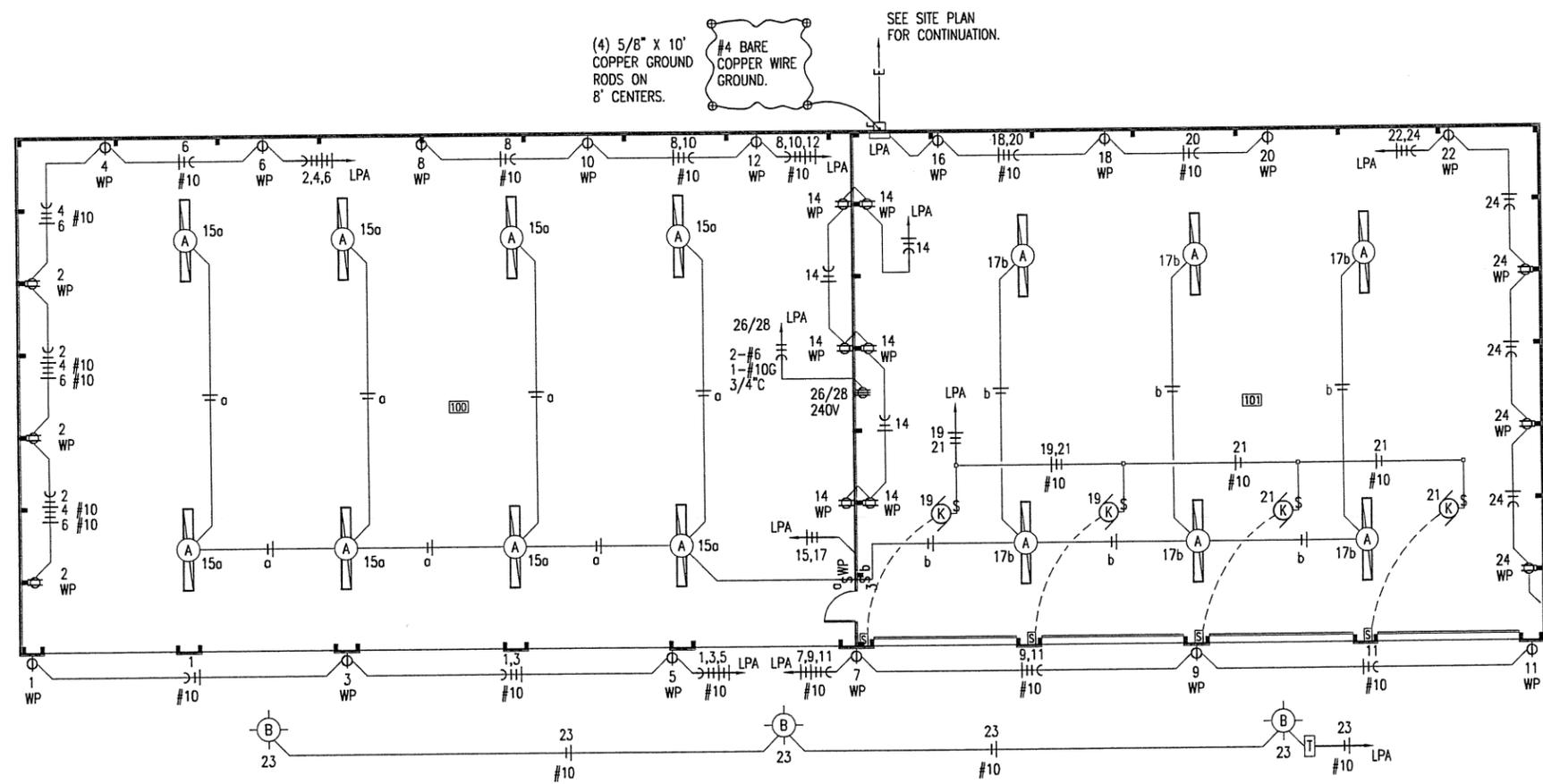
Roof Framing Plan

DESIGN BY: DOUG RECORD
DRAWN BY: LARRY CARVER
DATE: 5-29-09
CHECK BY: JERROLD SCARLETT
SHEET 10 of 12

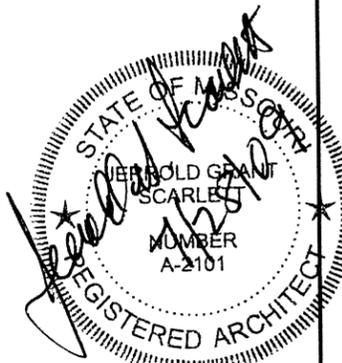
LEGEND

- \$ 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 W/ HUBBELL HBL 7420 COVER.
- Φ 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.
- Φ GFI DUPLEX RECEPTACLE W/ GROUND FAULT INTERRUPTER.
- Φ WP DUPLEX RECEPTACLE MOUNTED IN FS BOX WITH HUBBELL HBL5221 COVER.
- Φ SINGLE RECEPTACLE SURFACE MOUNTED IN UNFINISHED AREAS @ 42" A.F.F.
- Φ WP SINGLE RECEPTACLE MOUNTED IN FS BOX WITH HUBBELL HBL7423 COVER.
- Ψ DEDICATED RECEPTACLE FLUSH MOUNTED IN FINISHED AREAS @ 18" A.F.F. TO BOTTOM OF OUTLET.

- ▽ VOICE AND DATA OUTLET FLUSH MOUNTED IN FINISHED AREAS @ 18" A.F.F. TO BOTTOM OF OUTLET.
 - Φ WELDER RECEPTACLE SURFACE MOUNTED 42" A.F.F., MOUNT IN 4" SQUARE BOX WITH RAISED COVER.
 - NO FUSED DISCONNECT SWITCH.
 - ⊞ FUSED DISCONNECT SWITCH.
 - 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.



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



**DISTRICT 4 - 650 MULBERRY
STORAGE BUILDING**

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

Electrical Plan & Legend

DESIGN BY: DOUG RECORD
DRAWN BY: LARRY CARVER
DATE: 5-29-09
CHECK BY: JERROLD SCARLETT
SHEET 11 OF 12

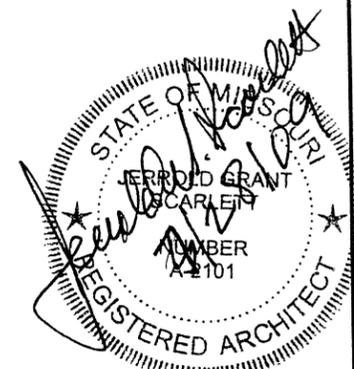
ELECTRIC SCHEDULE					
MANUF.	MODEL	#	LAMPS TYPE W	MNT	REMARKS
LITHONIA ⓐ	T2UN 4 32 120 ES (2) WG2UN	4	FLOURESCENT 32	CLG	96" LONG SURFACE MOUNT FLUORESCENT LIGHT FIXTURE, W/ PAINTED STEEL HOUSING, ELECTRONIC BALLAST, & WIRE GUARD.
WILLIAMS ⓑ	PGM-175H-128-2	1	METAL HALIDE 175	WALL	EXTERIOR, SURFACE MOUNT LIGHT FIXTURE, W/ ALUMINUM HOUSING, & IMPACT RESISTANT ONE-PIECE, WRAP-AROUND LENS.
Ⓒ	OVERHEAD DOOR OPERATOR			WALL	230V, 1-PH, JACK SHAFT-TYPE COMMERCIAL OVERHEAD DOOR OPERATOR. SEE SPECIFICATION SECTION 08720.
ⓓ	OVERHEAD DOOR CONTROL			WALL	THREE BUTTON OVERHEAD DOOR CONTROL AS SUPPLIED BY OVERHEAD DOOR MANUF. SEE SPECIFICATION SECTION 08720.
TORK ⓔ	E101			WALL	120V DIGITAL TIME CONTROL OF EXTERIOR LIGHTS.
ELECTRICAL FIXTURES AND EQUIPMENT ARE SCHEDULED BY MANUFACTURER AND MODEL NUMBER FOR DESIGN INTENT ONLY, APPROVED EQUALS MAY BE SUBSTITUTED.					

SERVICE PANEL LPA									
MAIN BUS: 225A MLO VOLTS: 240/120, 1PH, 3-WIRE BUS MATERIAL: COPPER MOUNTING: SURFACE			SQUARE "D" NOOD OR EQUAL W/ NEUTRAL BUS & GROUNDING BUS CIRCUIT BREAKERS BOLT-IN 10000 AIC				CONNECTED LOAD A PHASE 21095 VA B PHASE 22494 VA TOTAL 43589 VA 181 A		
CIR	SERVICE	VA	BKR		BKR	VA	SERVICE		CIR
1	EXTERIOR - RECEPTACLE	1000	20A1P	A	20A1P	540	100 - RECEPTACLES		2
3	EXTERIOR - RECEPTACLE	1000	20A1P	B	20A1P	1000	100 - RECEPTACLES		4
5	EXTERIOR - RECEPTACLE	1000	20A1P	A	20A1P	1000	100 - RECEPTACLES		6
7	EXTERIOR - RECEPTACLE	1000	20A1P	B	20A1P	1000	100 - RECEPTACLES		8
9	EXTERIOR - RECEPTACLE	1000	20A1P	A	20A1P	1000	100 - RECEPTACLES		10
11	EXTERIOR - RECEPTACLE	1000	20A1P	B	20A1P	1000	100 - RECEPTACLES		12
13	SPARE		20A1P	A	20A1P	1080	100, 101 - RECEPTACLES		14
15	100 - LIGHTS	1280	20A1P	B	20A1P	1000	101 - RECEPTACLES		16
17	101 - LIGHTS	960	20A1P	A	20A1P	1000	101 - RECEPTACLES		18
19	101 - OHD OPENERS	2162	20A1P	B	20A1P	1000	101 - RECEPTACLES		20
21	101 - OHD OPENERS	2162	30A1P	A	20A1P	900	101 - RECEPTACLES		22
23	EXTERIOR - LIGHTS	648	30A1P	B	20A1P	900	101 - RECEPTACLES		24
25				A	50A2P	4500	101 - WELDER		26
27				B		4500			28
29				A					30
31				B					32
33				A					34
35				B					36
37				A					38
39				B					40
41				A					42

⊙ CIRCUIT BREAKER SHALL BE GFI RATED

ELECTRICAL NOTES

- DRAWINGS AND DIAGRAMS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
- ELECTRICAL WORK SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE (N.E.C.).
- PROVIDE ELECTRICAL EQUIPMENT AND ACCESSORIES REQUIRED FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM AS REQUIRED BY MANUFACTURER'S INSTRUCTIONS AND DIRECTIONS FOR SYSTEMS SPECIFIED.
- SWITCHES AND RECEPTACLES SHALL BE EQUAL TO THE AMPERE RATING SHOWN IN THE PANEL SCHEDULE. RECEPTACLES SHALL BE GROUND-FAULT INTERRUPTION TYPE WHERE SHOWN OR AS REQUIRED BY CODE.
- 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 BAY AREA TO BE MOUNTED AT 48" A.F.F.
- COORDINATE WORK WITH OTHER TRADES PRIOR TO COMMENCING WITH ELECTRICAL WORK.
- CONDUCTOR AND BREAKER SIZE MAY VARY PER MANUFACTURER ON THE EQUIPMENT SPECIFIED. 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.
- SEE SPECIFICATION SECTION 16100 - ELECTRICAL FOR ADDITIONAL REQUIREMENTS.



DISTRICT 4 - 650 MULBERRY
STORAGE BUILDING

MISSOURI DEPARTMENT
OF TRANSPORTATION
GENERAL SERVICES
FACILITIES MANAGEMENT

Electrical Panel

DESIGN BY: DOUG RECORD
DRAWN BY: LARRY CARVER
DATE: 5-29-09
CHECK BY: JERROLD SCARLETT
SHEET
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INDEX OF DRAWINGS

- 1/4 FRAMING LAYOUT
- 2/4 DETAILS
- 3/4 DETAILS
- 4/4 DETAILS

MISSOURI DEPARTMENT OF TRANSPORTATION

DISTRICT 4 - 650 MULBERRY - SPREADER RACKS

JACKSON COUNTY
KANSAS CITY, MISSOURI

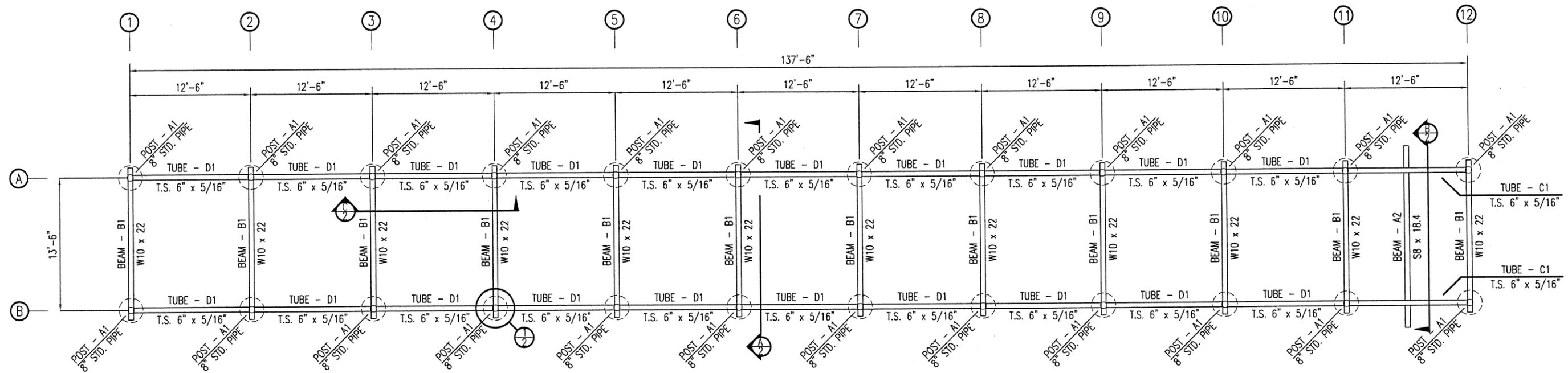


COVER SHEET

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
BUILDINGS AND GROUNDS

DISTRICT 4 - 650 MULBERRY
SPREADER RACKS

DESIGN BY: LARRY CARVER
DRAWN BY: LARRY CARVER
DATE: 5-29-09
CHECKED BY: J.G.S.
Sheet - OF -

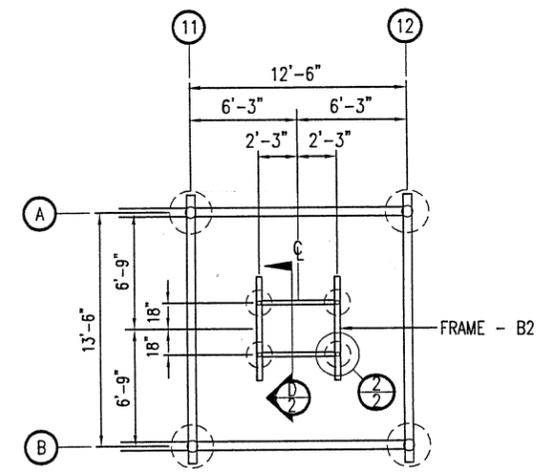


A FRAMING LAYOUT
1 SCALE: 3/32" = 1'-0"

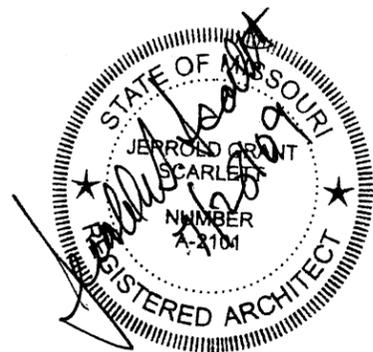
MARK	QTY.	DESCRIPTION	LENGTH
A1	24	POSTS	
ma1	24	8" STANDARD PIPE	14'-11 5/8"
pa1	24	PLATE 3/4 x 13	1'-1"
ba1	24	BAR 9 x 1/2	1'-2"
B1	12	W10 x 22	15'-6"
C1	2	TUBES	
mb1	2	T.S. 6" x 6" x 5/16	12'-4 3/4"
bb1	4	BAR 7 x 1/2	1'-0"
bc1	2	BAR 6 x 1/2	1'-0"
D1	20	TUBES	
mb1	20	T.S. 6" x 6" x 5/16	12'-4 3/4"
bb1	40	BAR 7 x 1/2	1'-0"
pa1	40	PLATE 1/2 x 4-1/2	1'-0"

MARK	QTY.	DESCRIPTION	LENGTH
A2	1	RAIL BEAMS	
ma2	1	S8 x 18.4	14'-11 5/8"
aa2	4	L 3 x 3 x 1/4	1'-1"
mb2	4	3/4" x 2" A325 W/ NUTS & WASHERS	
B2	1	RACK ASSEMBLY	
C2	2	RACKS	
ta2	2	T.S. 4" x 4" x 1/4	5'-11 1/2"
ba2	4	BAR 3-1/2 x 1/4	0'-3 1/2"
bb2	4	PLATE 1/2 x 10	0'-10"
mc2	4	3" STANDARD PIPE	0'-6 1/2"
mq2	2	3" STANDARD PIPE	4'-2"
md2	22	2" STANDARD PIPE	1'-11 3/4"
pa2	22	PLATE 1/4 x 2" φ	
mf2	26	GALVANIZED ALLEN HEAD PIPE PLUGS	

QTY.	FIELD BOLTS
80	3/4" φ x 2-1/2" A325 W/ NUTS AND WASHERS
17	3/4" φ x 2" A325 W/ NUTS AND WASHERS
9	1/2" φ x 1-3/4" A325 W/ NUTS AND BEVEL WASHERS



TAILGATE FRAMING PLAN
SCALE: 1/16" = 1'-0"

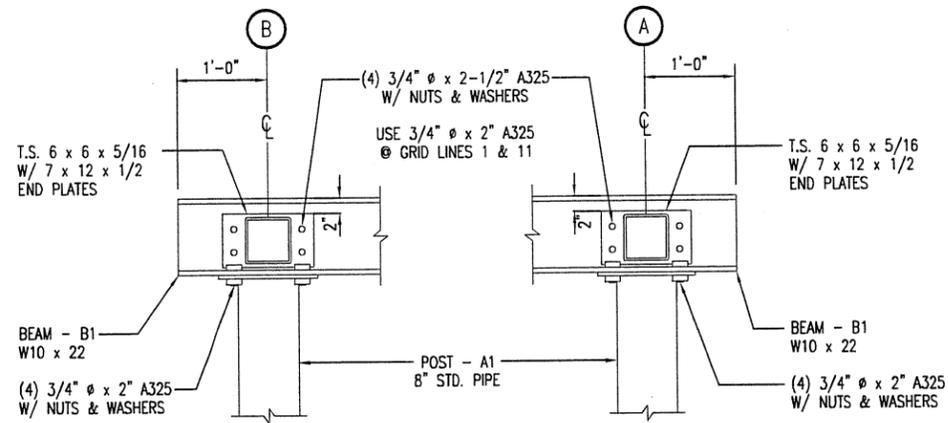


FRAMING LAYOUT

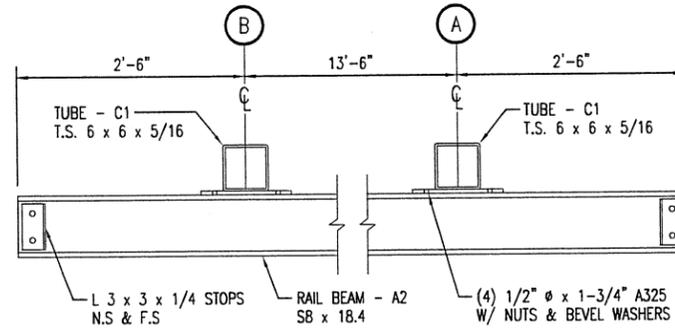
MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
BUILDINGS AND GROUNDS

DISTRICT 4 - 650 MULBERRY
SPREADER RACKS

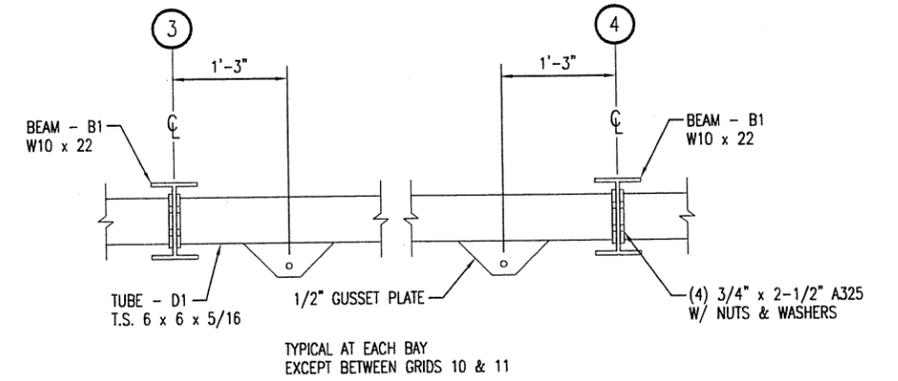
DESIGN BY: LARRY CARVER
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Sheet 1 of 4



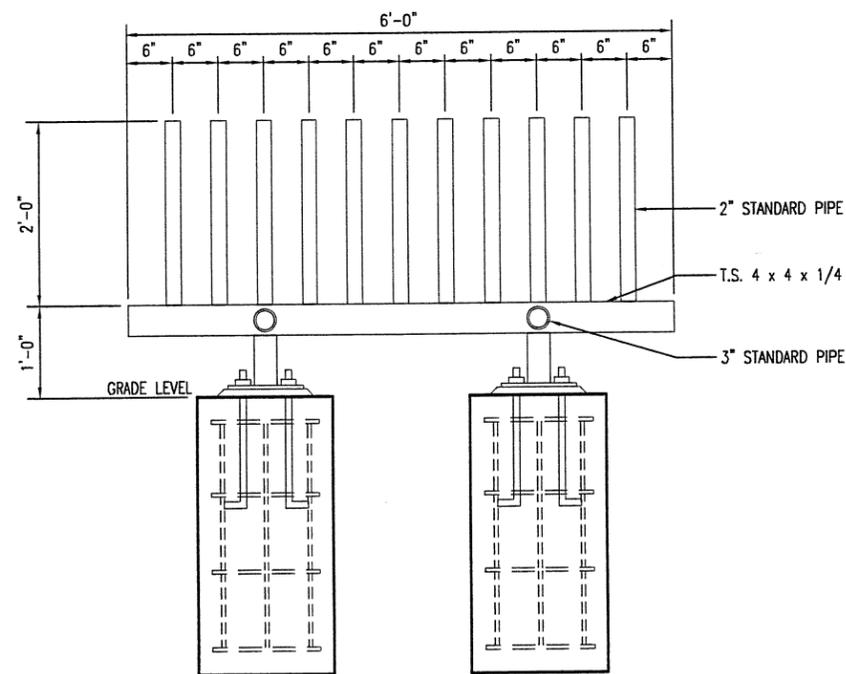
A SECTION A - A
2 SCALE: 1/2" = 1'-0"



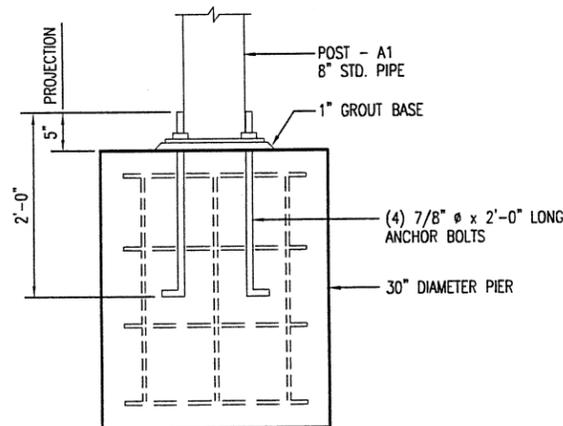
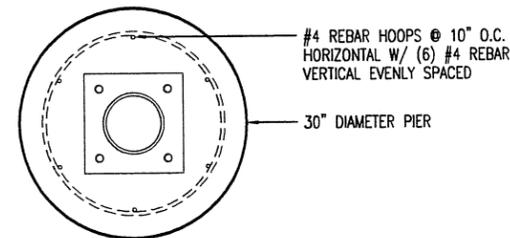
B SECTION B - B
2 SCALE: 1/2" = 1'-0"



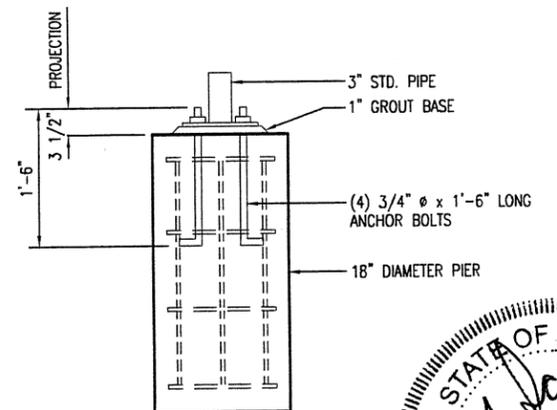
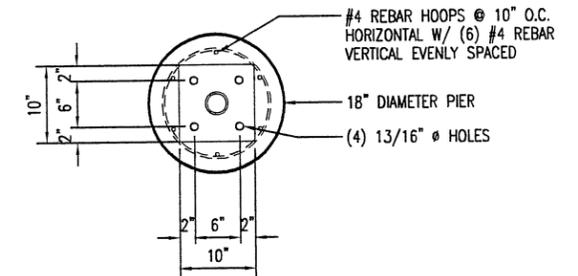
C SECTION C - C
2 SCALE: 1/2" = 1'-0"



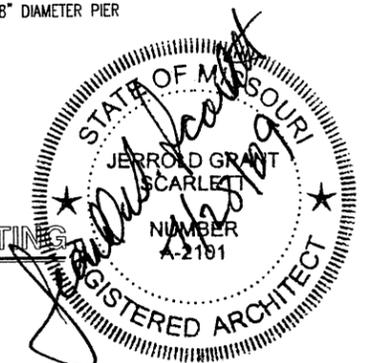
D SECTION D - D
2 SCALE: 1/2" = 1'-0"



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



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

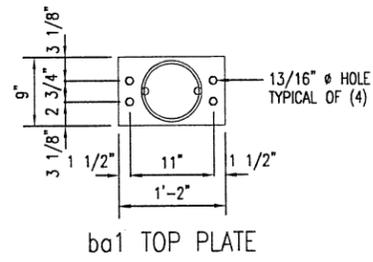


DETAILS

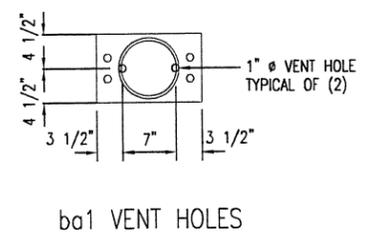
MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
BUILDINGS AND GROUNDS

DISTRICT 4 - 650 MULBERRY
SPREADER RACKS

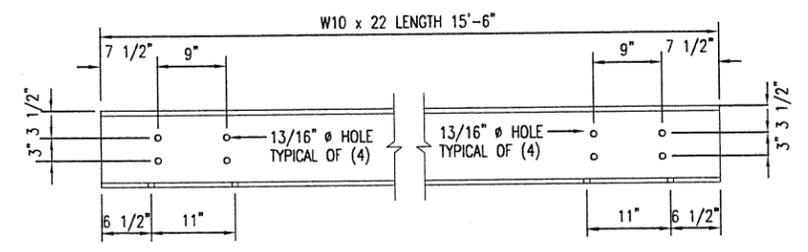
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DRAWN BY: LARRY CARVER
DATE: 5-29-09
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Sheet
2 OF 4



ba1 TOP PLATE

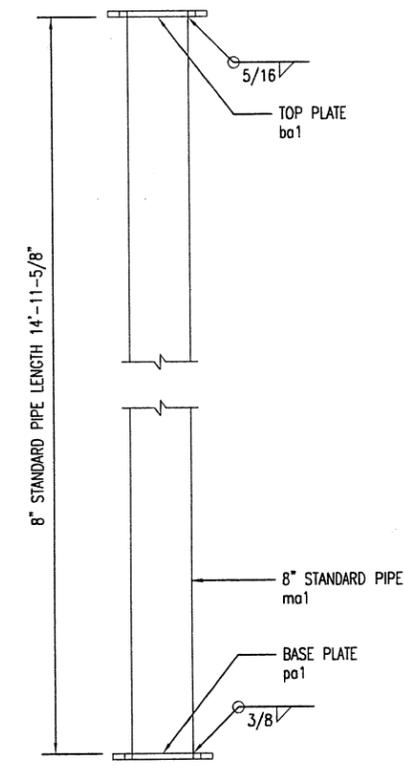


ba1 VENT HOLES

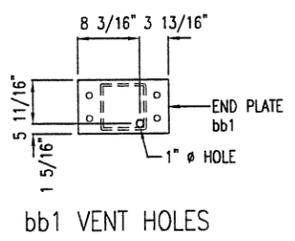
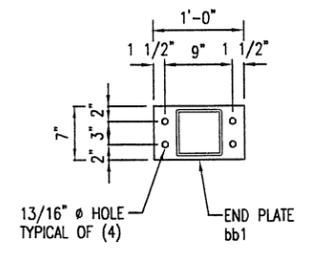
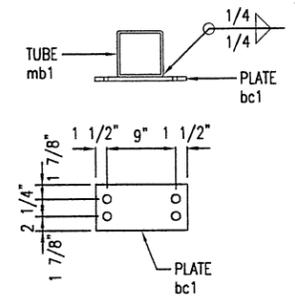


BEAMS (MK - B1)

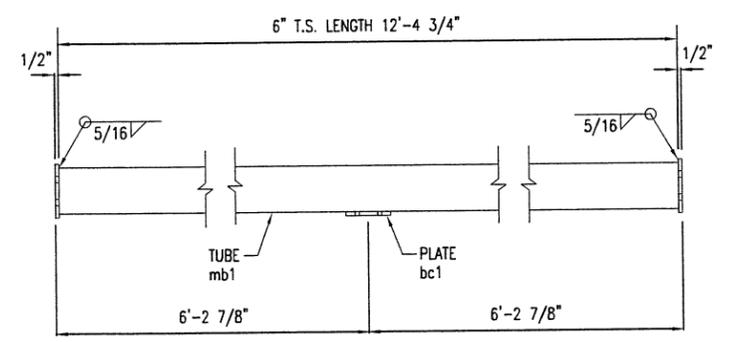
SCALE: 1/2" = 1'-0"



Ma1 8" PIPE

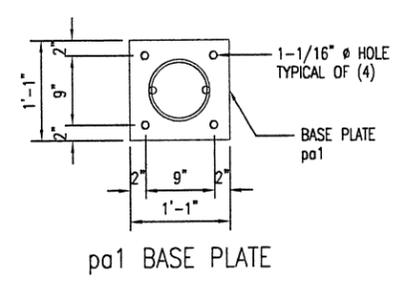
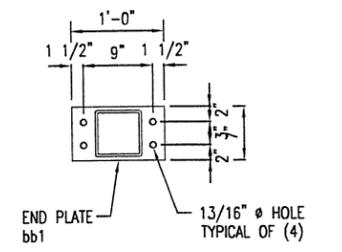


bb1 VENT HOLES

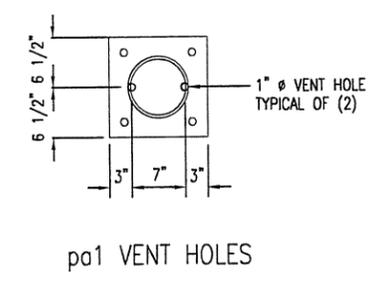


TUBES (MK - C1)

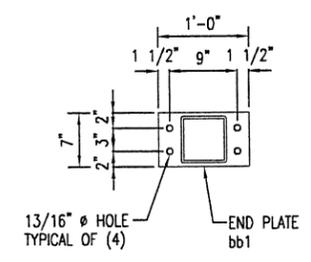
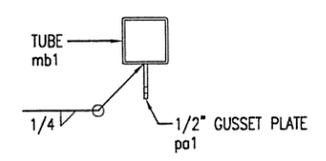
SCALE: 1/2" = 1'-0"



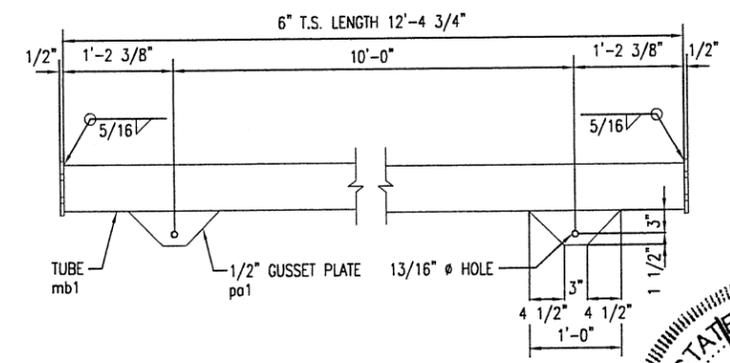
pa1 BASE PLATE



pa1 VENT HOLES

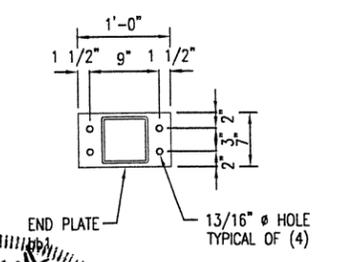


bb1 END PLATE



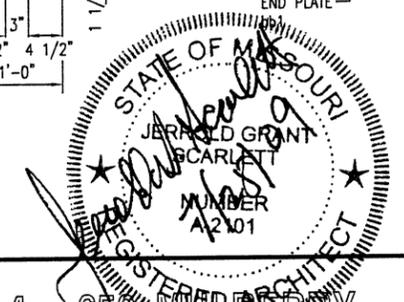
TUBES (MK - D1)

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



MAIN FRAME POST (MK - A1)

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

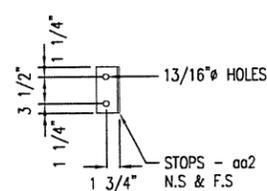
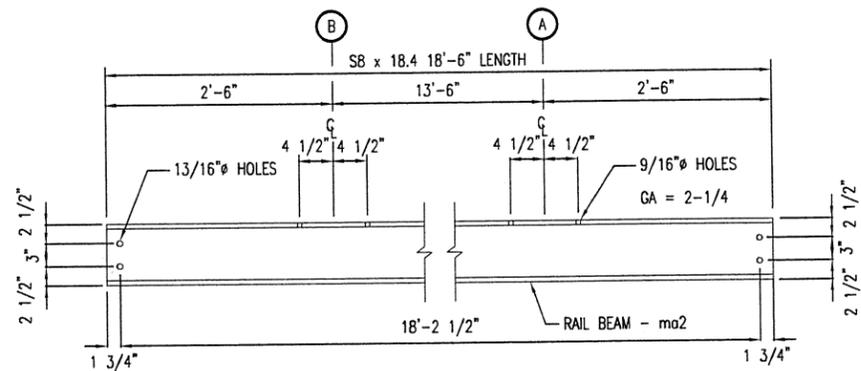


DETAILS

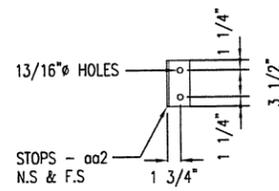
MISSOURI DEPARTMENT OF TRANSPORTATION
DIVISION OF GENERAL SERVICES BUILDINGS AND GROUNDS

DISTRICT 4 - 650 MILLBERRY
SPREADER RACKS

DESIGN BY: LARRY CARVER
DRAWN BY: LARRY CARVER
DATE: 5-29-09
CHECKED BY: J.G.S.
Sheet 3 of 4



SECURE aa2 STOPS TO ma2 RAIL BEAM WITH (2) mb2 NUTS & WASHERS HAND TIGHTEN

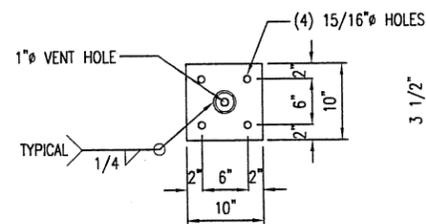
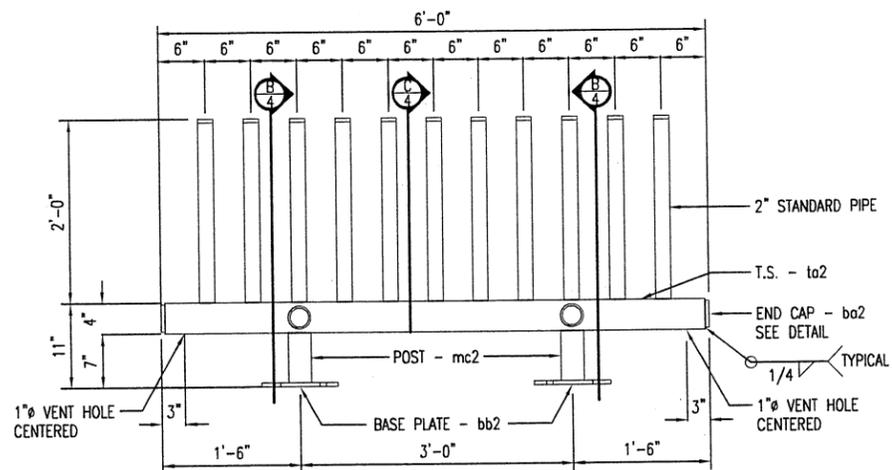


aa2 STOPS

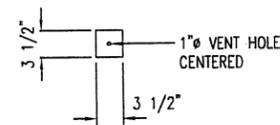
aa2 STOPS

RAIL BEAM (MK - A2)

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



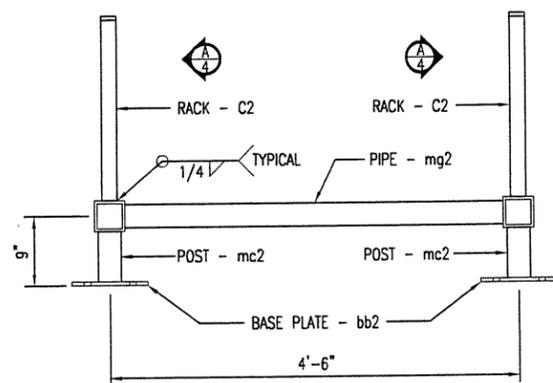
bb2 BASE PLATE



ba2 END CAP

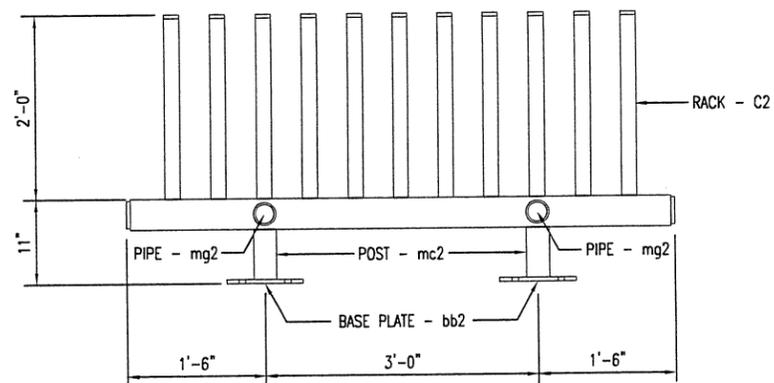
RACKS (MK - C2)

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



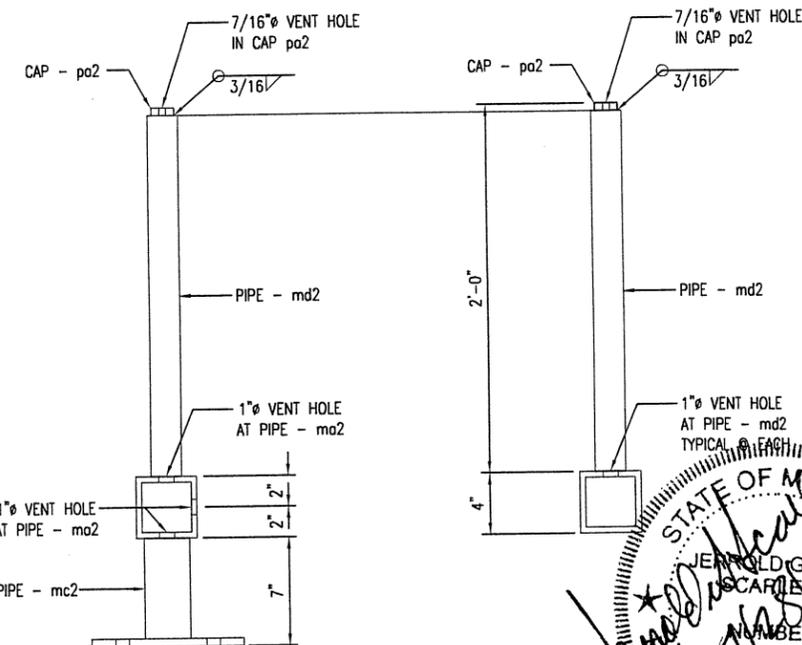
RACK ASSEMBLIES (MK - B2)

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



VIEW "A"

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



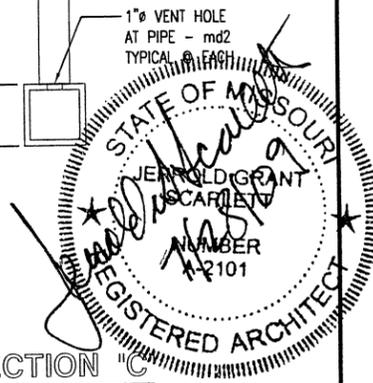
SECTION "B"

SCALE: 1" = 1'-0"

SECTION "C"

SCALE: 1" = 1'-0"

SHOP NOTE:
AFTER GALVANIZING PROCESS
TAP 7/16" HOLES TO 27/64"
INSTALL PIPE PLUGS m2 IN TAPPED HOLES



DETAILS

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
BUILDINGS AND GROUNDS

DISTRICT 4 - 650 MULBERRY
SPREADER RACKS

DESIGN BY: LARRY CARVER
DRAWN BY: LARRY CARVER
DATE: 5-29-09
CHECKED BY: J.G.S.
Sheet

INDEX OF DRAWINGS

1/9	FLOOR PLAN
2/9	ELEVATION
3/9	ELEVATION
4/9	SECTION
5/9	BLOCK LAYOUT LEVEL 1
6/9	BLOCK LAYOUT LEVEL 2
7/9	BLOCK LAYOUT LEVEL 3
8/9	ELECTRICAL PLAN
9/9	ELECTRIC NOTES/SCHEDULES/PANEL

CODE REQUIREMENTS

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

DESIGN BY: LARRY CARVER

DRWN. BY: LARRY CARVER

DATE: 5-29-08

DISTRICT 4
650 MULBERRY
KANSAS CITY, MO

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

MISSOURI DEPARTMENT OF TRANSPORTATION

DISTRICT 4 - 650 MULBERRY - FABRIC SALT STRUCTURE

JACKSON COUNTY KANSAS CITY, MISSOURI

TITLE SHEET

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DOOR SCHEDULE		
MARK	SWING	DOOR SIZE
1	LHR	3'-0" x 6'-8" x 1-5/8"
2	RHR	3'-0" x 6'-8" x 1-5/8"

DOOR/FRAME TYPE



EQUAL TO CANNON BALL AMERICAN DOORS
4000 SERIES, NS-1053, SOLID PANEL
3'-0" x 6'-8" FIBERGLASS SKIN DOOR
3-1/2" MILL FINISH JAMB
OPTIONAL STAINLESS PASSAGE LOCKSET

GENERAL NOTES:

INTERLOCKING BLOCKS ARE 30" H x 30" D x 60" L

IF EXACT STRUCTURE DIMENSIONS ARE NOT MET,
CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING
INTERLOCKING BLOCK LAYOUT TO MEET REQUIRED DESIGN.

FABRICK STRUCTURE SUPPLIER TO DESIGN AND PROVIDE ALL
NECESSARY CONNECTIONS TO SECURE FABRIC STRUCTURE
TO FOUNDATION WALL.

CONTRACTOR TO PROVIDE ADEQUATE SUPPORT FOR ALL
ELECTRICAL EQUIPMENT.

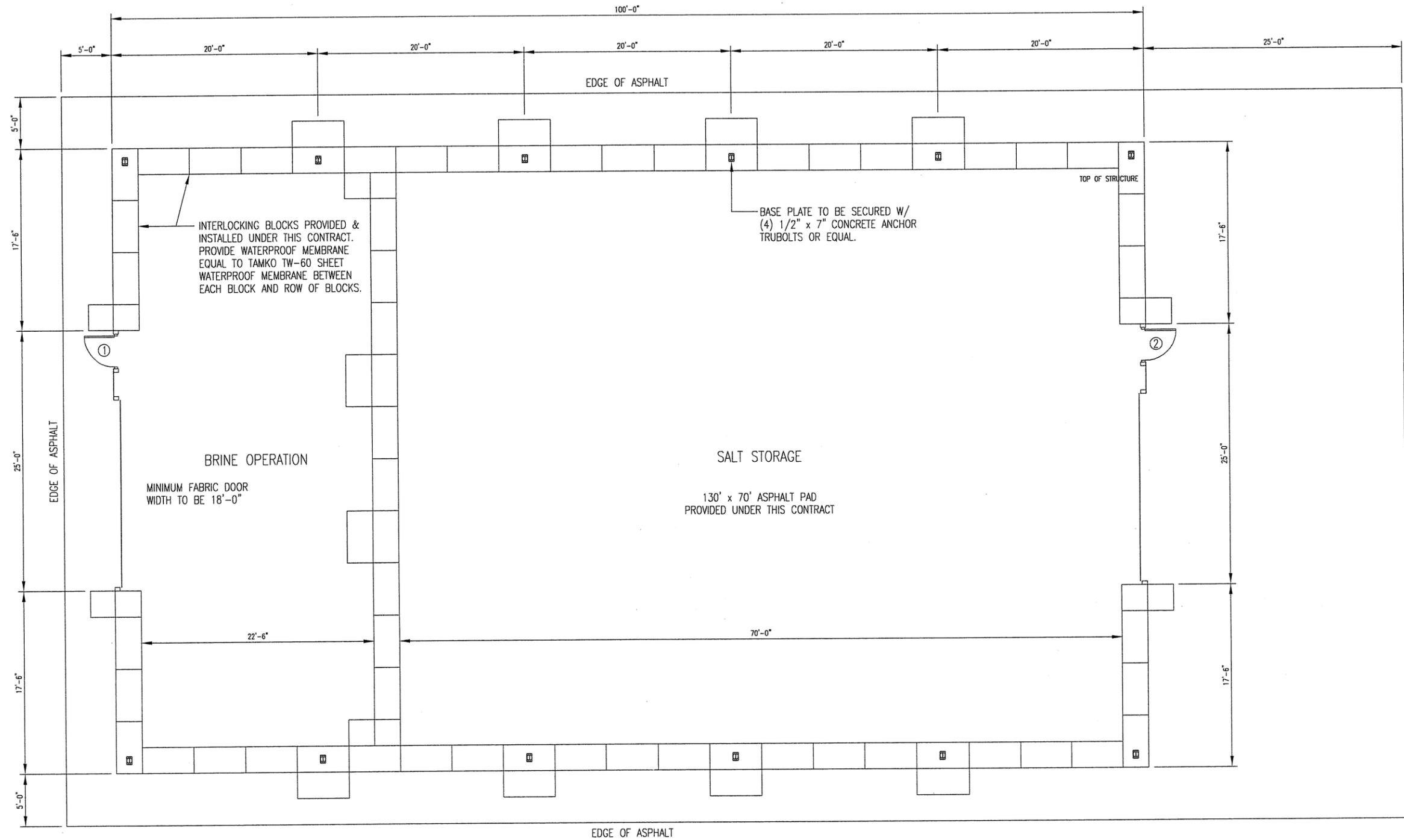


DATE: 5-28-09
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DISTRICT 4
650 MULBERRY
KANSAS CITY, MO

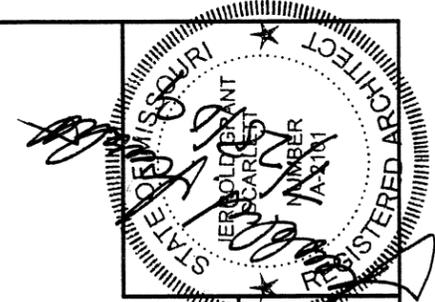
MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

FLOOR PLAN



FLOOR PLAN

SCALE: 3/32" = 1'-0"

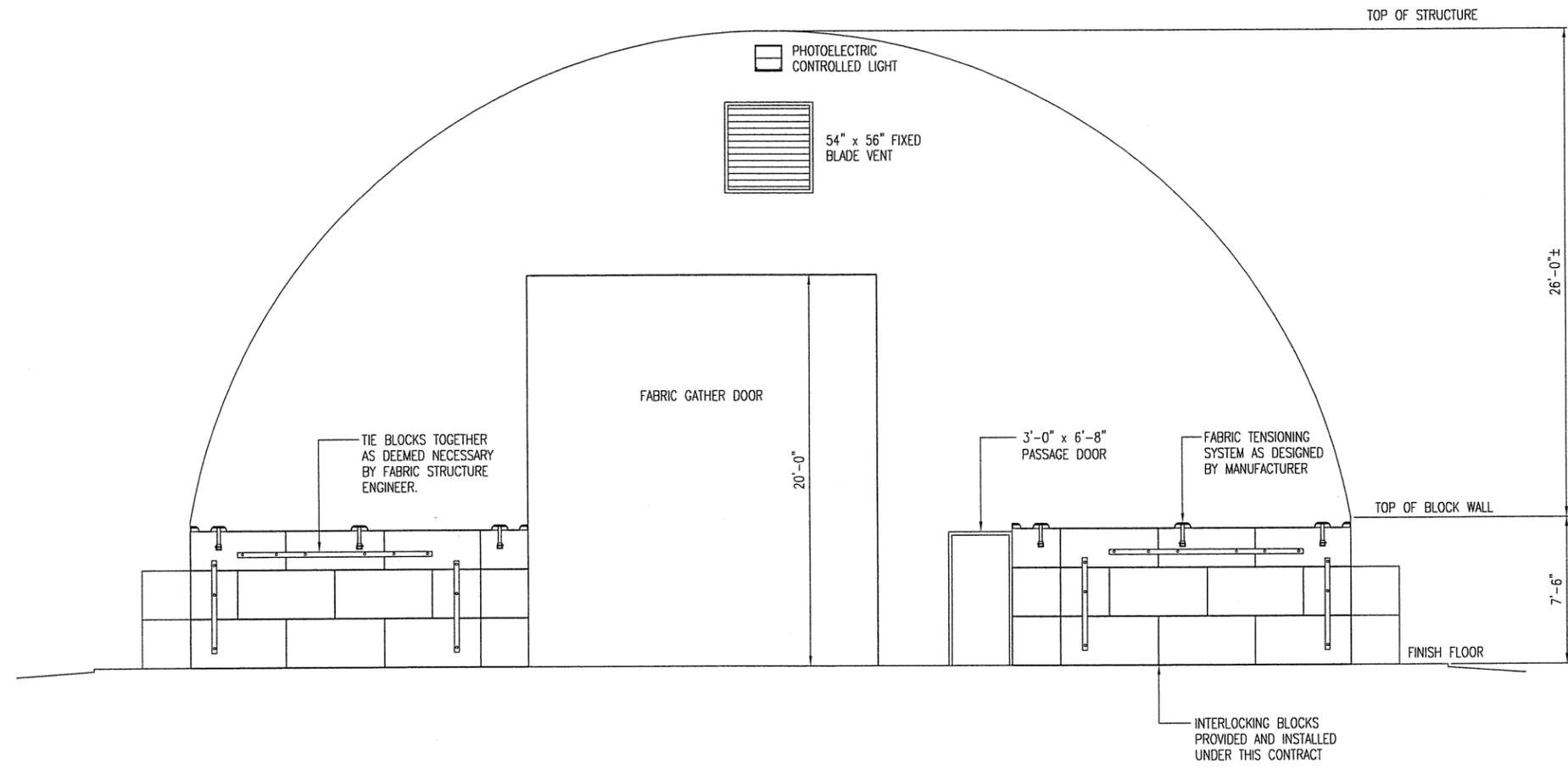


DESIGNED BY: LARRY CARVER
 DATE: 5-29-09

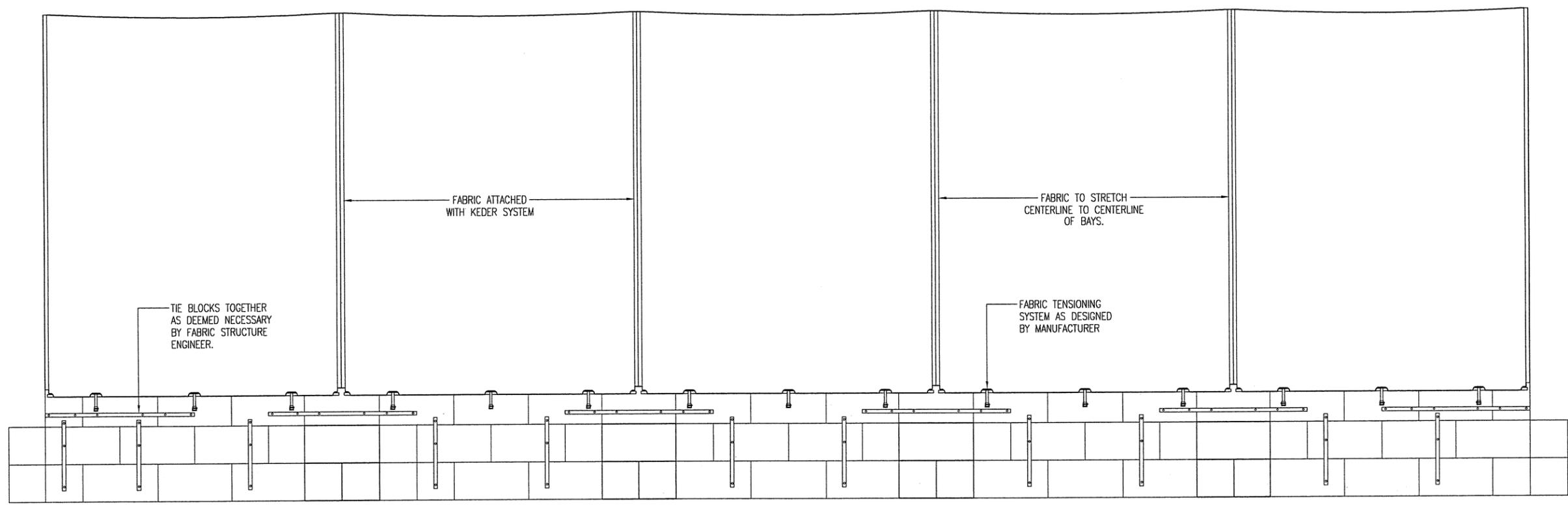
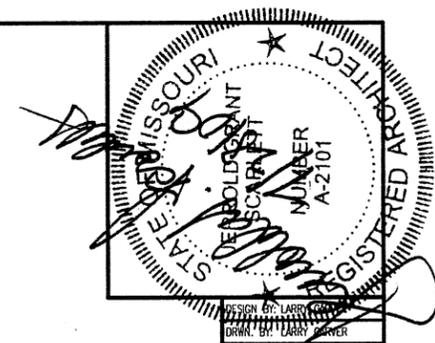
DISTRICT 4
 650 MULBERRY
 KANSAS CITY, MO

MISSOURI DEPARTMENT
 OF TRANSPORTATION
 DIVISION OF GENERAL SERVICES
 FACILITIES MANAGEMENT

ELEVATION



END WALL ELEVATION
 SCALE: 1/8" = 1'-0"



SIDE WALL ELEVATION

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

DISTRICT 4
650 MULBERRY
KANSAS CITY, MO

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

ELEVATION

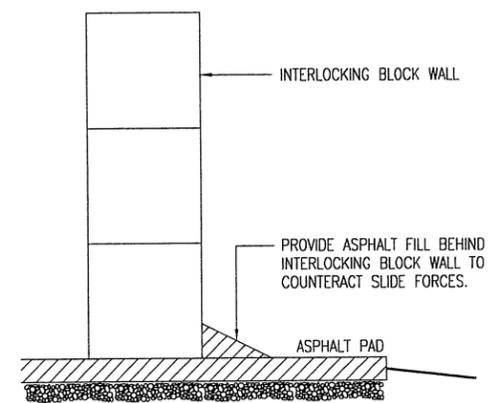
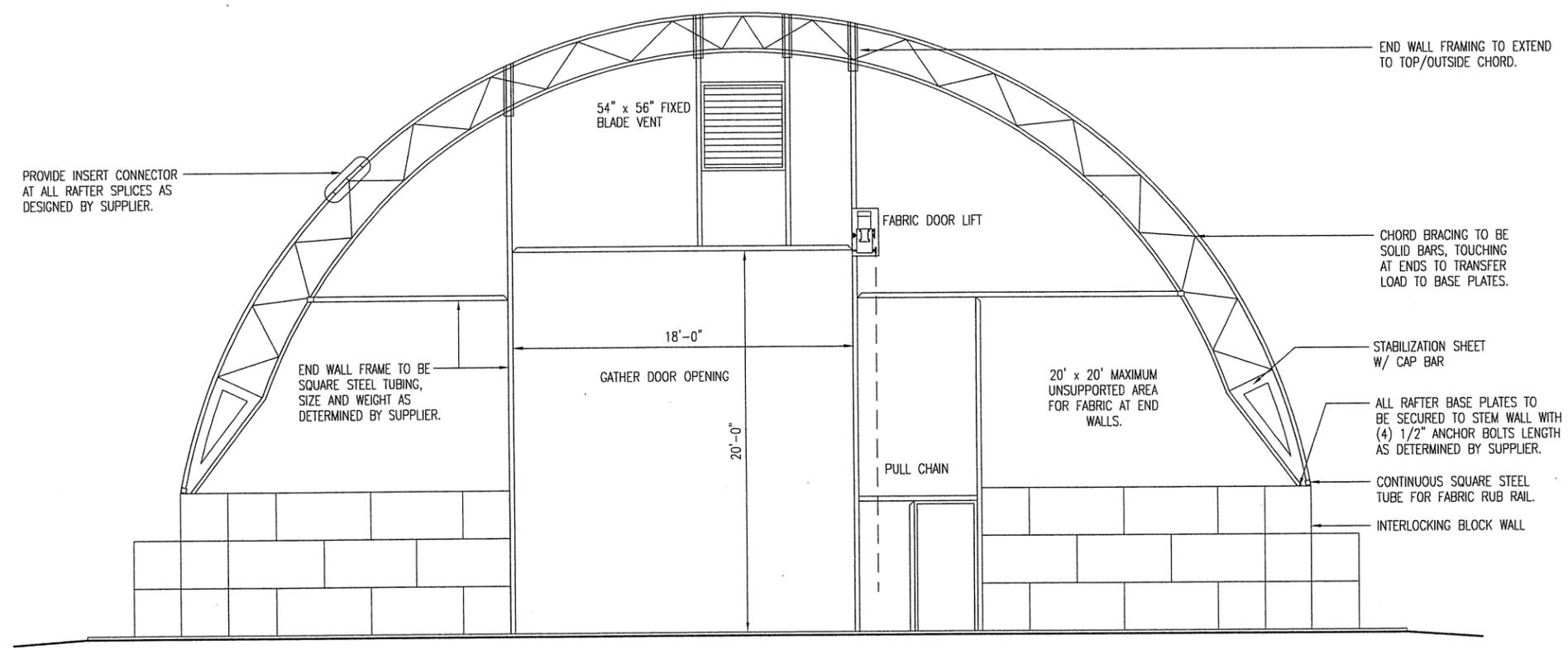


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 DATE: 5-29-09

DISTRICT 4
 650 MULBERRY
 KANSAS CITY, MO

MISSOURI DEPARTMENT
 OF TRANSPORTATION
 DIVISION OF GENERAL SERVICES
 FACILITIES MANAGEMENT

SECTION

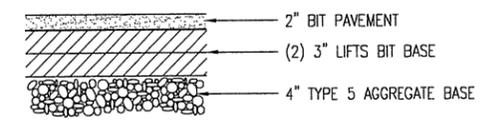


ASPHALT DETAIL

NTS

ASPHALT FACTORS

BIT BASE	ASPHALT FACTOR	0.091 TON/CY.
	AGGREGATE FACTOR	1.934 TON/CY.
	%AC	4.5
BIT PAVEMENT BP-1	ASPHALT FACTOR	0.099 TON/CY.
	AGGREGATE FACTOR	1.895 TON/CY.
	%AC	5.1



ASPHALT DESIGN

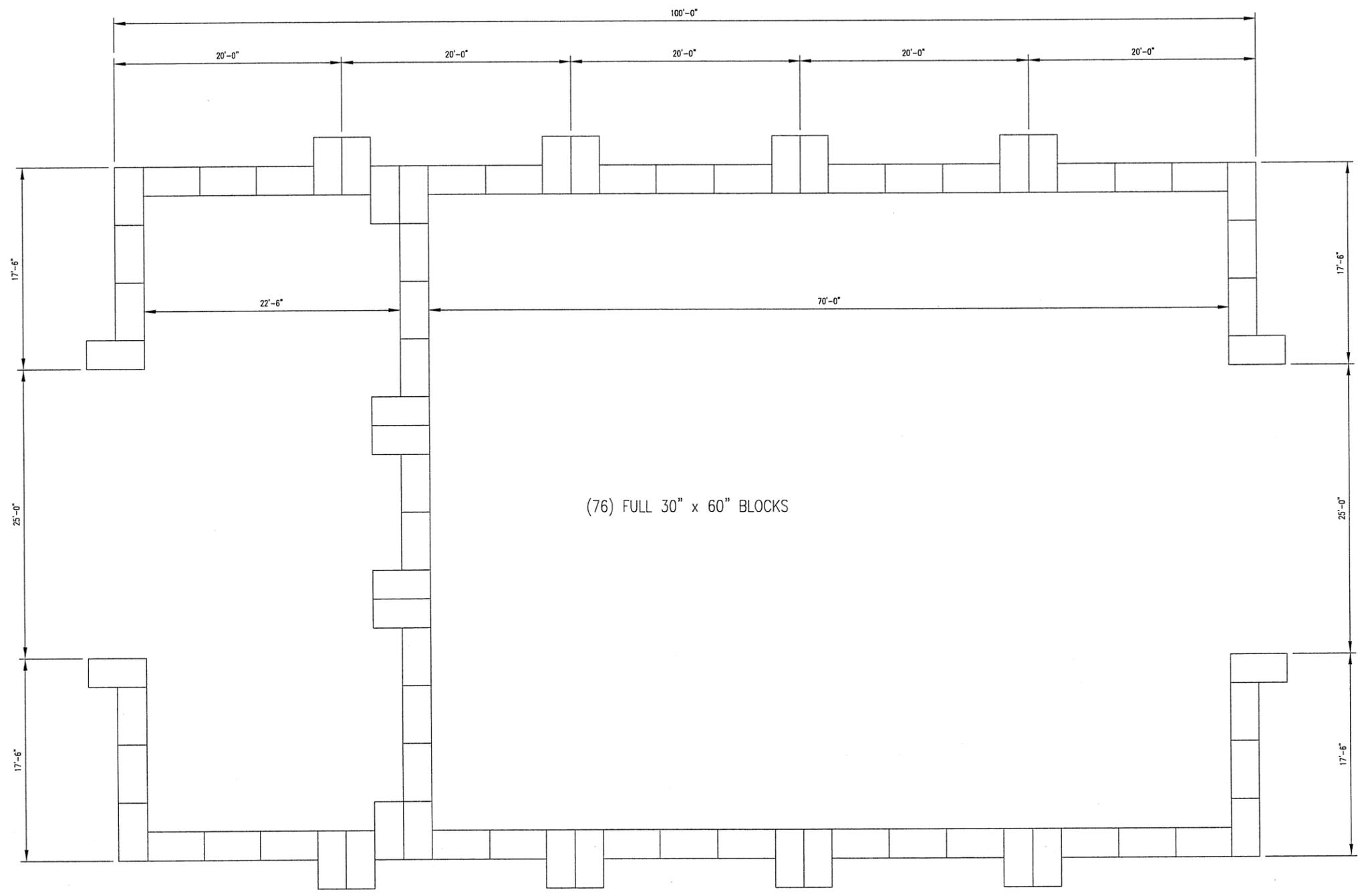
NTS

GENERAL NOTES:

OVER-ALL CLEAR INTERIOR STRUCTURE HEIGHT TO BE 30'-0" MINIMUM A.F.F.

END WALL FRAMING

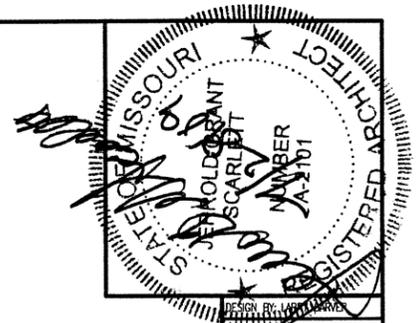
SCALE: 1/8" = 1'-0"



(76) FULL 30" x 60" BLOCKS

BLOCK LAYOUT LEVEL 1

SCALE: 3/32" = 1'-0"

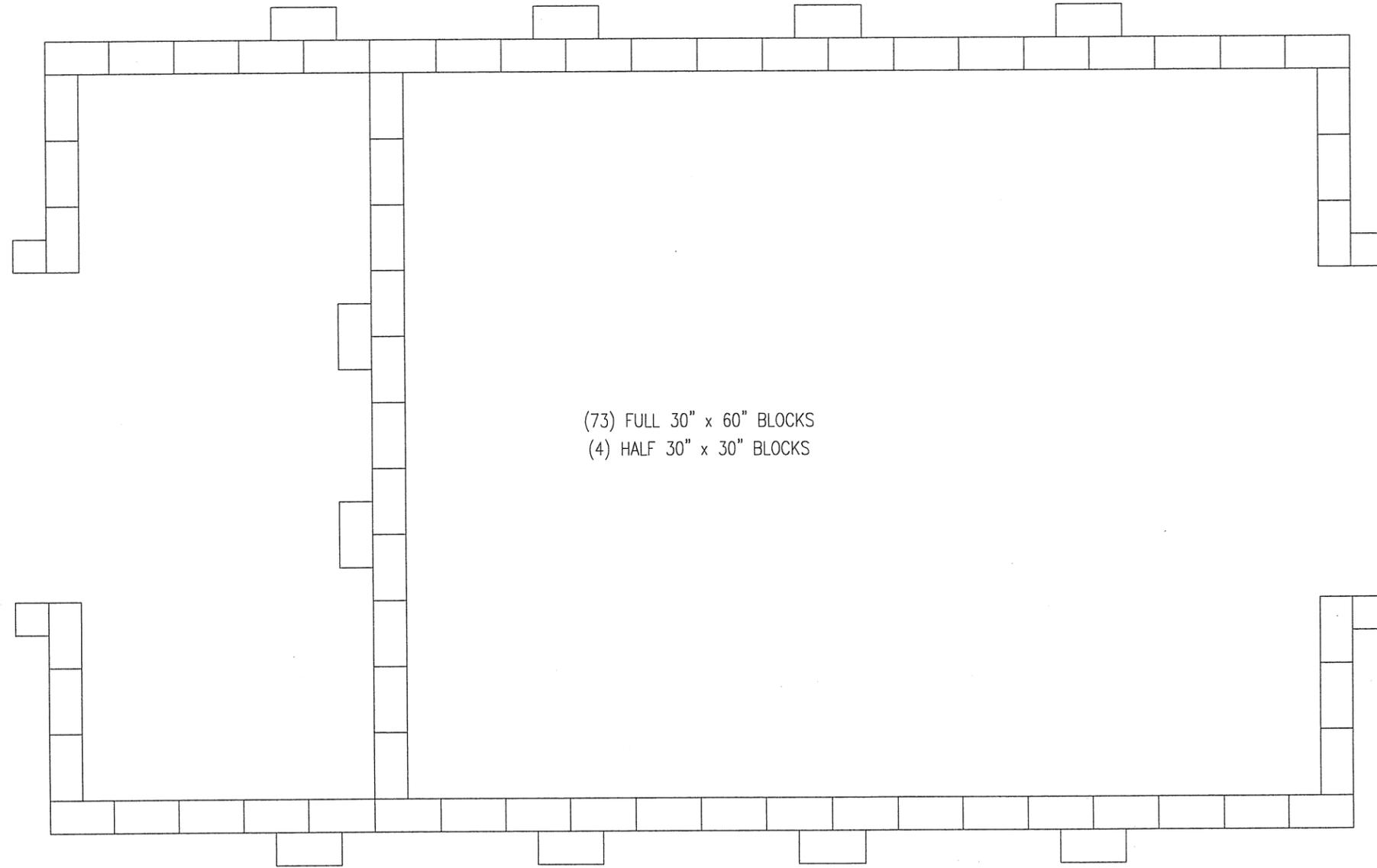


DESIGN BY: SCARLETT
 DRAWN BY: GARRY CARVER
 DATE: 5-29-09

DISTRICT 4
 650 MULBERRY
 KANSAS CITY, MO

MISSOURI DEPARTMENT
 OF TRANSPORTATION
 DIVISION OF GENERAL SERVICES
 FACILITIES MANAGEMENT

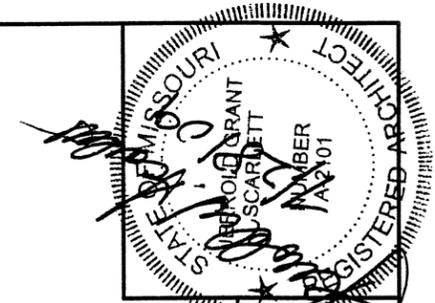
BLOCK LAYOUT



(73) FULL 30" x 60" BLOCKS
 (4) HALF 30" x 30" BLOCKS

BLOCK LAYOUT LEVEL 2

SCALE: 3/32" = 1'-0"

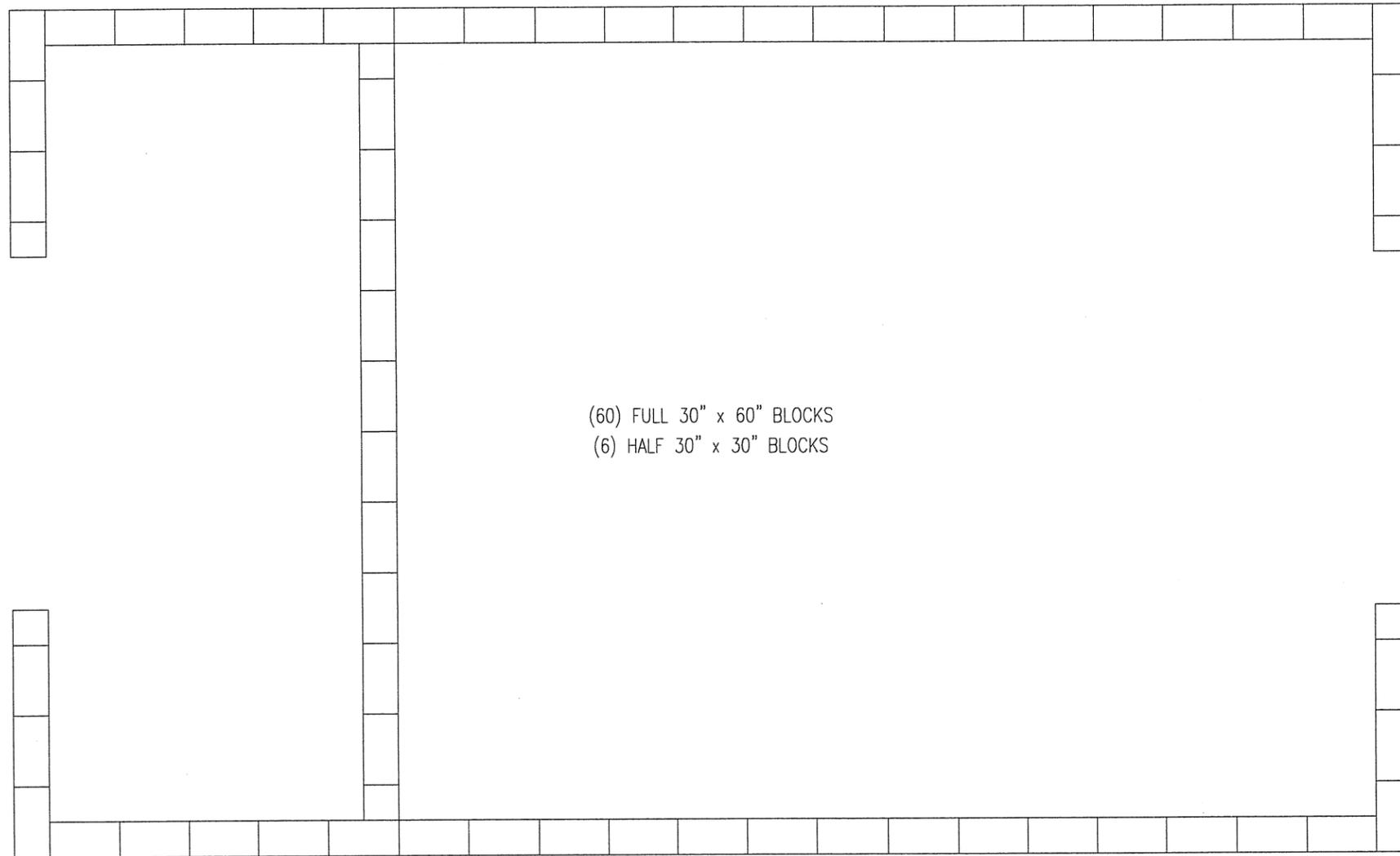


DESIGNED BY: LARRY CARVER
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DISTRICT 4
 650 MULBERRY
 KANSAS CITY, MO

MISSOURI DEPARTMENT
 OF TRANSPORTATION
 DIVISION OF GENERAL SERVICES
 FACILITIES MANAGEMENT

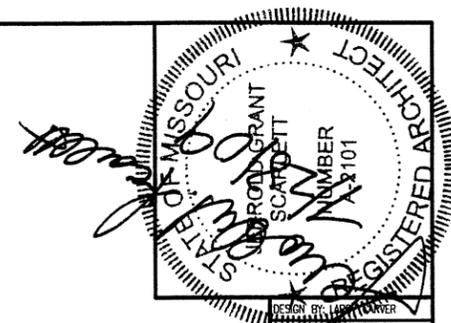
BLOCK LAYOUT



(60) FULL 30" x 60" BLOCKS
 (6) HALF 30" x 30" BLOCKS

BLOCK LAYOUT LEVEL 3

SCALE: 3/32" = 1'-0"

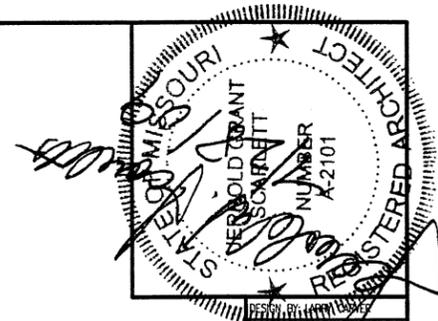


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 DATE: 5-29-09

DISTRICT 4
 650 MULBERRY
 KANSAS CITY, MO

MISSOURI DEPARTMENT
 OF TRANSPORTATION
 DIVISION OF GENERAL SERVICES
 FACILITIES MANAGEMENT

BLOCK LAYOUT



ELECTRIC SCHEDULE					
MANUF.	MODEL	#	LAMPS TYPE W	MNT	REMARKS
HUBBELL Ⓐ	BL-400HX-BI	1	METAL HALIDE 400	CLG	INDUSTRIAL, HIGHBAY H.I.D. LIGHT FIXTURE,
WILLIAMS Ⓑ	PGM-175H-128-2	1	METAL HALIDE 175	WALL	EXTERIOR, SURFACE MOUNT LIGHT FIXTURE, W/ ALUMINUM HOUSING, & IMPACT RESISTANT ONE-PIECE, WRAP-AROUND LENS.
LIFT MASTER Ⓒ	GH1011			WALL	120V, 1-PH, HOIST TYPE COMMERCIAL GARAGE DOOR OPERATOR.
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

1. ELECTRICAL WORK SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE (N.E.C.).
2. PROVIDE ELECTRICAL EQUIPMENT AND ACCESSORIES REQUIRED FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM AS REQUIRED BY MANUFACTURER'S INSTRUCTIONS AND DIRECTIONS FOR SYSTEMS SPECIFIED.
3. 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.
4. ALL WIRING INSIDE STRUCTURE SHALL BE TYPE THHN SOLID COPPER, IN SCHEDULE 40 HEAVY WALL PVC CONDUIT. PROVIDE ADEQUATE SUPPORT FOR PVC CONDUIT. ALL SYSTEMS TO BE DUST TIGHT.
5. SWITCHES AND RECEPTACLES TO BE IN WEATHERPROOF BOXES.
6. MOUNT RECEPTACLES AT 48" A.F.F.

SERVICE PANEL								
MAIN BUS: 60A MLO VOLTS: 240/120, 1PH, 3-WIRE BUS MATERIAL: COPPER MOUNTING: SURFACE		SQUARE "D" NQOD OR EQUAL W/ NEUTRAL BUS & GROUNDING BUS CIRCUIT BREAKERS BOLT-IN 10000 AIC IN EXTERIOR BOX AND COVER				CONNECTED LOAD A PHASE 2400 VA B PHASE 3072 VA TOTAL 5472 VA 23 A		
CIR	SERVICE	VA	BKR		BKR	VA	SERVICE	CIR
1	LIGHTS ▲	984	30A1P	A	30A1P	984	LIGHTS ▲	2
3	RECEPTACLES/OHD OPENER	1536	20A1P	B	20A1P	1536	RECEPTACLES/OHD OPENER	4
5	EXTERIOR - LIGHTS	432	20A1P	A	20A1P		SPACE ONLY	6
7	SPACE ONLY				B		SPACE ONLY	8
9	SPACE ONLY				A		SPACE ONLY	10
11	SPACE ONLY				B		SPACE ONLY	12

▲ CIRCUIT BREAKER SHALL BE RATED FOR HID LIGHTING

LEGEND

- Ⓢ3 3-WAY SWITCH, SURFACE MOUNTED IN UNFINISHED AREAS @ 48" A.F.F.
 - ⓈWP SWITCH MOUNTED IN FS BOX W/ HUBBELL HBL 7420 COVER.
 - Φ GFI DUPLEX RECEPTACLE W/ GROUND FAULT INTERRUPTER
 - Φ WP DUPLEX RECEPTACLE MOUNTED IN FS BOX WITH HUBBELL HBL5221 COVER.
-

DISTRICT 4
650 MULBERRY
KANSAS CITY, MO

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

ELECTRICAL PANEL

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3/38	FOUNDATION PLAN	16/38	BUILDING SECTION	29/38	OFFICE MECHANICAL PLAN
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5/38	FOUNDATION DETAILS	18/38	INTERIOR ELEVATIONS	31/38	MECHANICAL DETAILS
6/38	FOUNDATION DETAILS	19/38	HEAD / JAMB DETAILS	32/38	ELECTRICAL LIGHTING PLAN
7/38	FOUNDATION DETAILS	20/38	HEAD / JAMB DETAILS	33/38	OFFICE ELECTRICAL LIGHTING PLAN
8/38	FOUNDATION DETAILS	21/38	HEAD / JAMB DETAILS	34/38	ELECTRICAL POWER PLAN
9/38	DIMENSIONAL FLOOR PLAN	22/38	WALL SECTIONS	35/38	OFFICE ELECTRICAL POWER PLAN
10/38	OFFICE DIMENSIONS MEZZANINE PLAN	23/38	WALL SECTIONS	36/38	POWER DISTRIBUTION PLAN ELECTRIC PANELS
11/38	ARCHITECTURAL FLOOR PLAN	24/38	REFLECTED CEILING PLAN	37/38	MEZZANINE ELECTRIC ELECTRIC NOTES & SCHEDULES
12/38	FLOOR SCHEDULES	25/38	PLUMBING PLAN	38/38	ELECTRIC SENSORS
13/38	ELEVATIONS	26/38	OFFICE PLUMBING PLAN		

CODE REQUIREMENTS

BUILDING CODE - IBC 2003
 PLUMBING CODE - CURRENT IBC
 MECHANICAL CODE - CURRENT IBC
 ELECTRICAL CODE - CURRENT N.E.C.

MISSOURI DEPARTMENT OF TRANSPORTATION

DISTRICT 4 - 650 MULBERRY - MAINTENANCE BUILDING

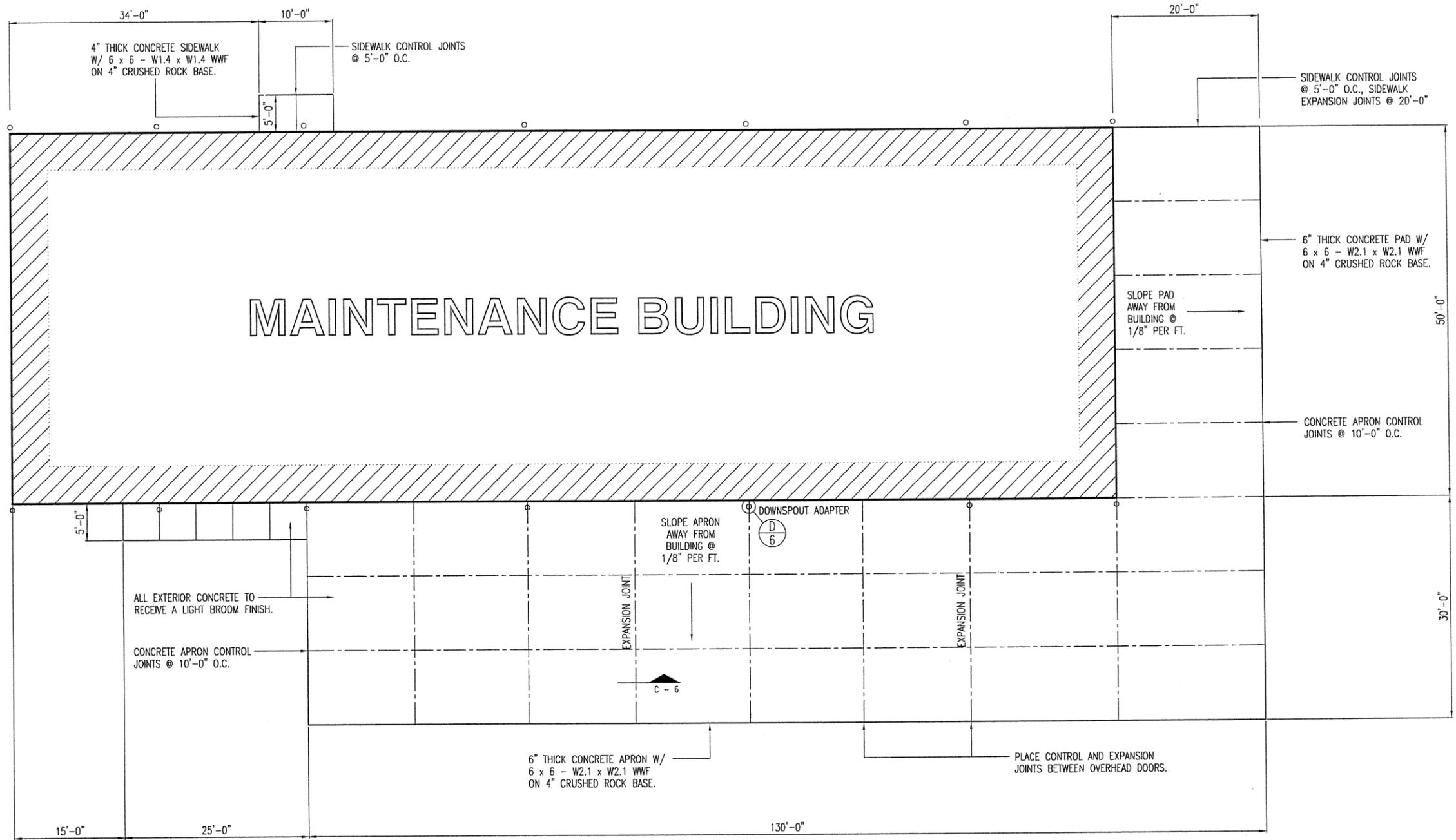
JACKSON COUNTY KANSAS CITY, MISSOURI

DISTRICT 4 - 650 MULBERRY
MAINTENANCE BUILDING

MISSOURI DEPARTMENT
OF TRANSPORTATION
GENERAL SERVICES
FACILITIES MANAGEMENT

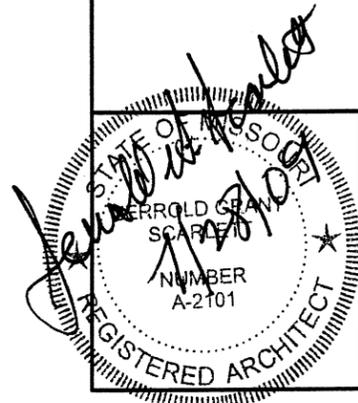
TITLE SHEET

DESIGN BY: DOUG RECORD
 DRAWN BY: LARRY CARVER
 DATE: 6-5-09
 CHECK BY: JERROLD SCARLETT
 SHEET
 - OF -



PLOT PLAN

SCALE: 1/16" = 1'



DISTRICT 4 - 650 MULBERRY
MAINTENANCE BUILDING

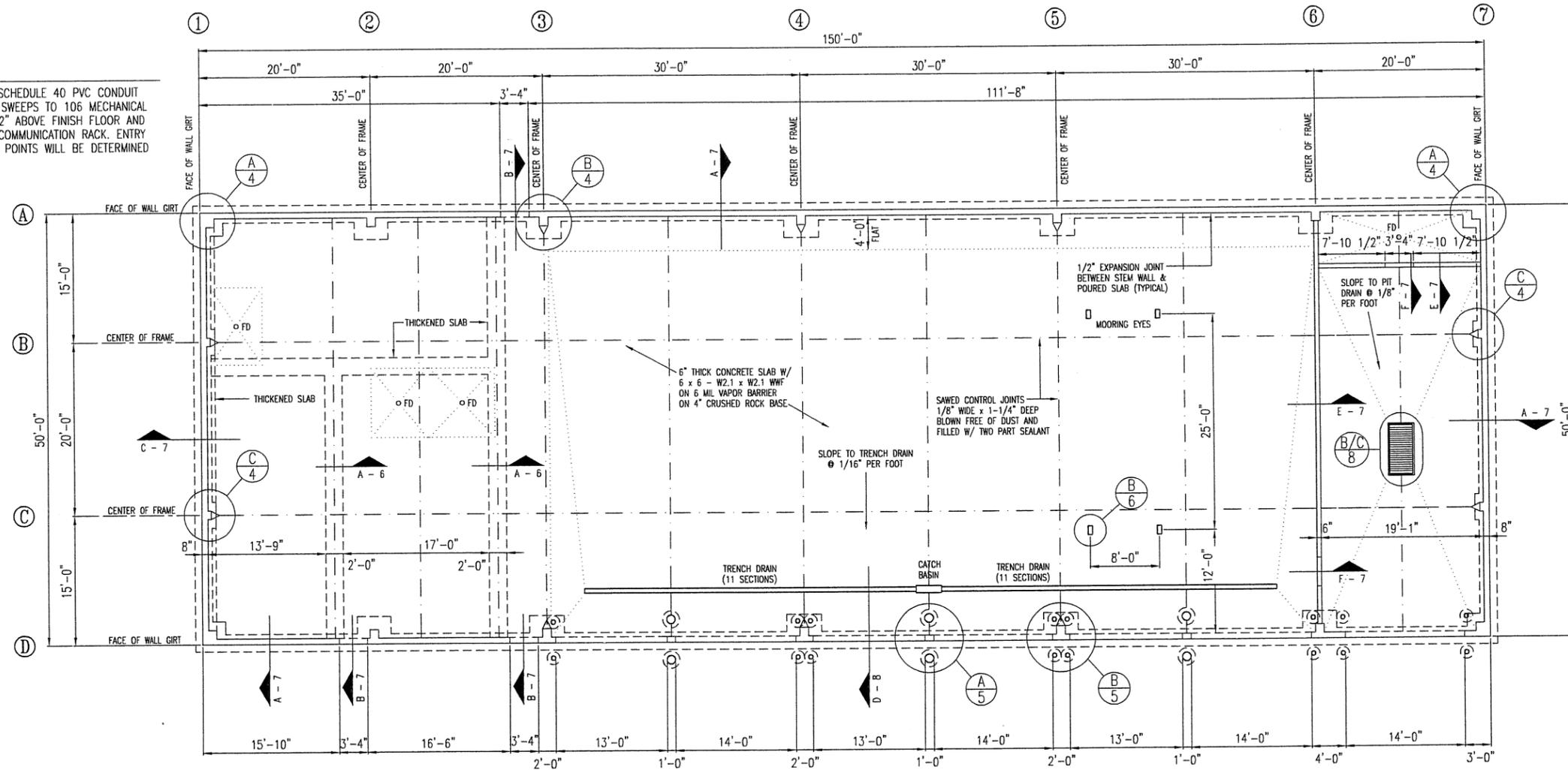
MISSOURI DEPARTMENT
OF TRANSPORTATION
GENERAL SERVICES
FACILITIES MANAGEMENT

PLOT PLAN

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DRAWN BY: LARRY CARVER
DATE: 5-29-09
CHECK BY: JERROLD SCARLETT
SHEET 2 OF 38

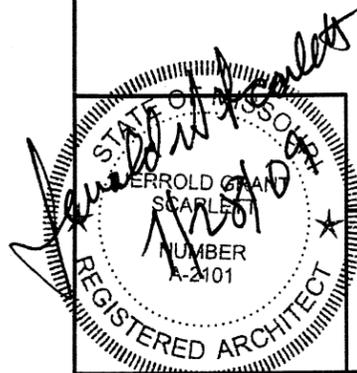
NOTE:

PROVIDE (1) 4" SCHEDULE 40 PVC CONDUIT WITH FIBEROPTIC SWEEPS TO 106 MECHANICAL ROOM. EXTEND 12" ABOVE FINISH FLOOR AND CAP BELOW TELECOMMUNICATION RACK. ENTRY AND CONNECTION POINTS WILL BE DETERMINED BY SITE LAYOUT.



FOUNDATION PLAN

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

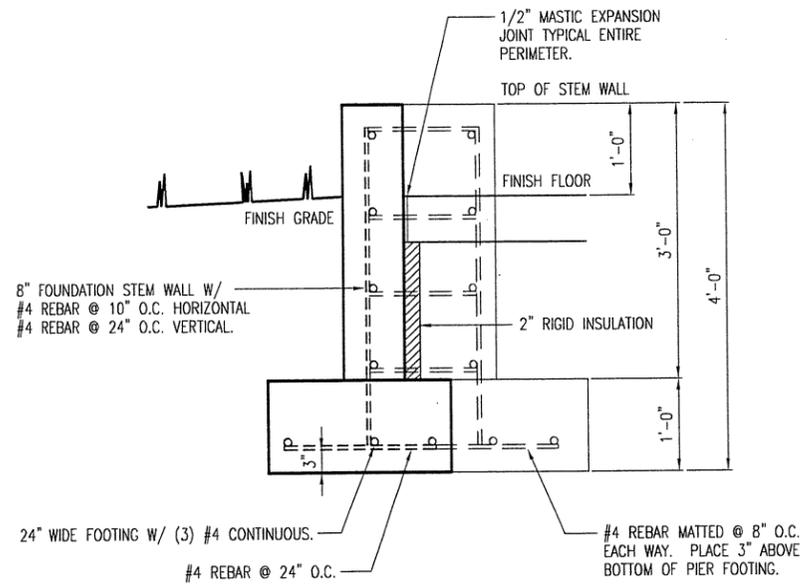


DISTRICT 4 - 650 MULBERRY
MAINTENANCE BUILDING

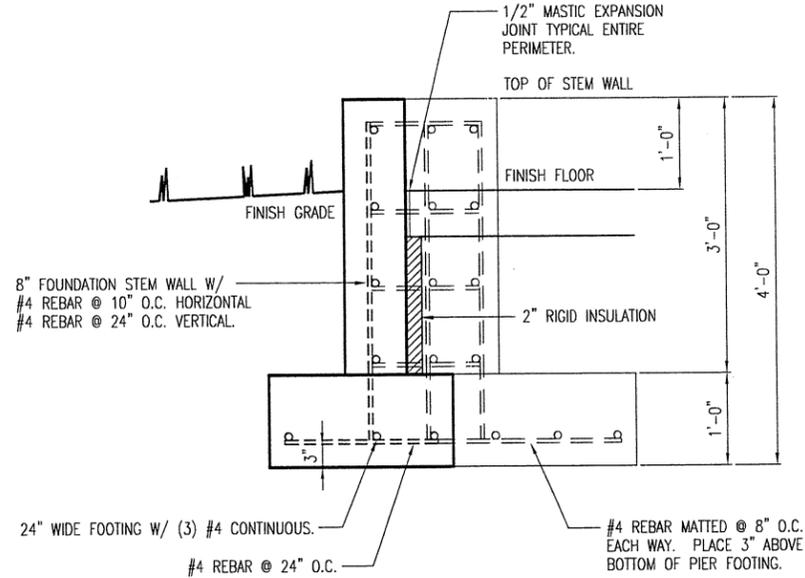
MISSOURI DEPARTMENT
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FOUNDATION PLAN

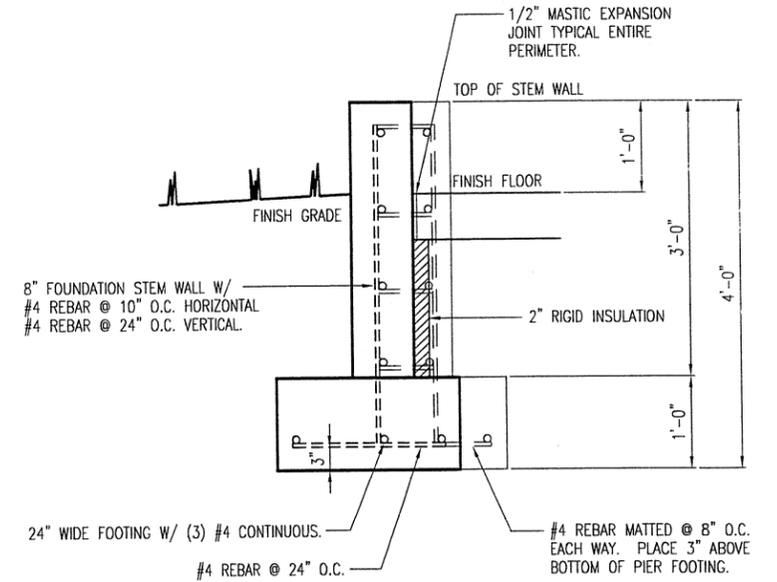
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DRAWN BY: LARRY CARVER
DATE: 5-29-09
CHECK BY: JERROLD SCARLETT
SHEET 3 of 38



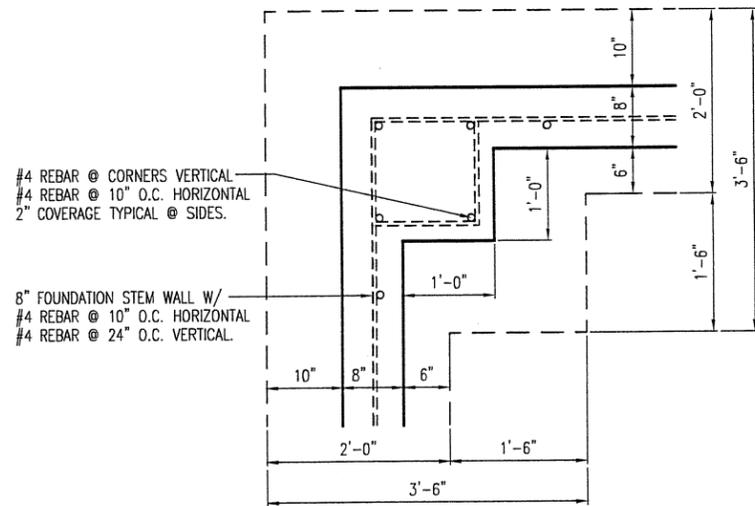
ELEVATION



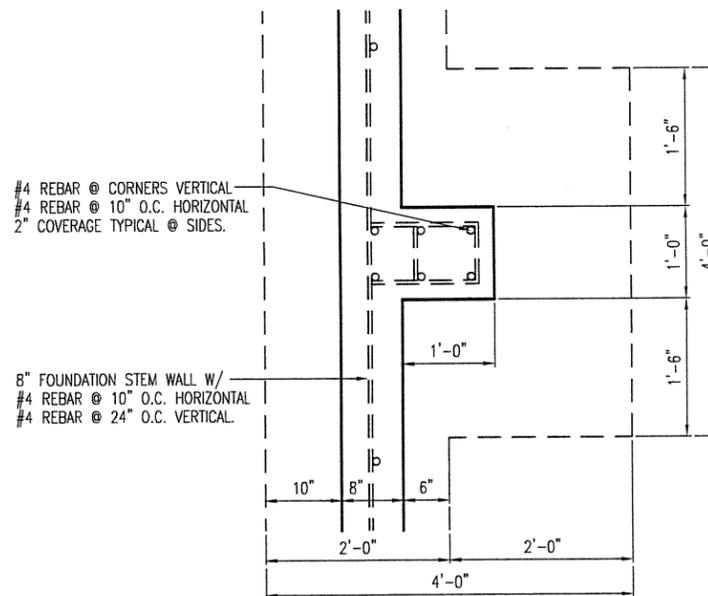
ELEVATION



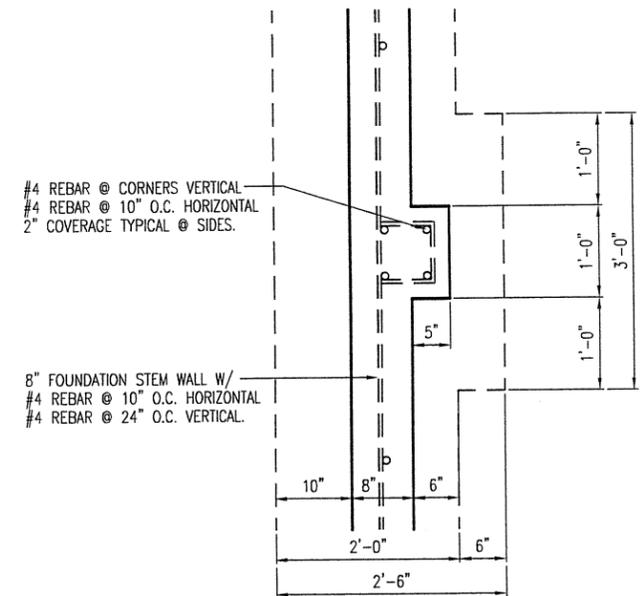
ELEVATION



PLAN VIEW



PLAN VIEW

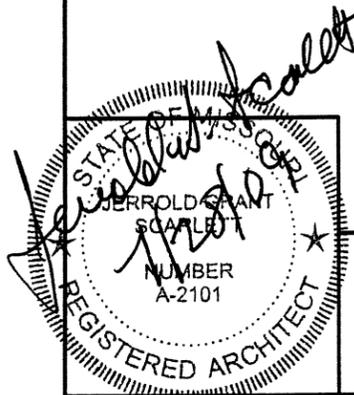


PLAN VIEW

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

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

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

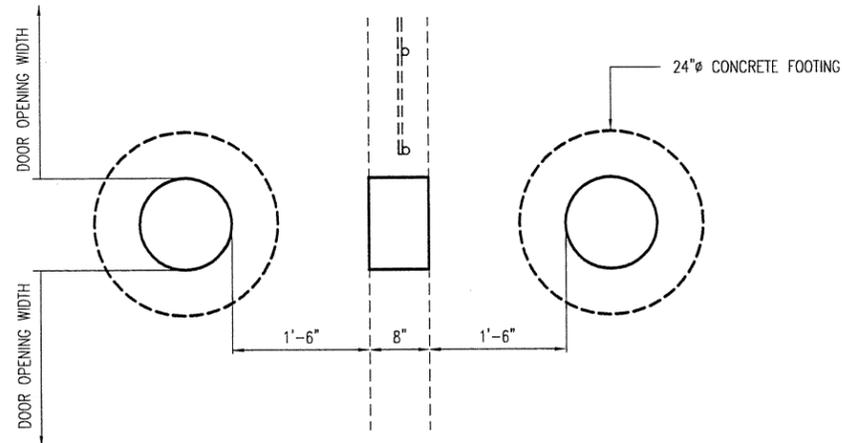


DISTRICT 4 - 650 MULBERRY
 MAINTENANCE BUILDING

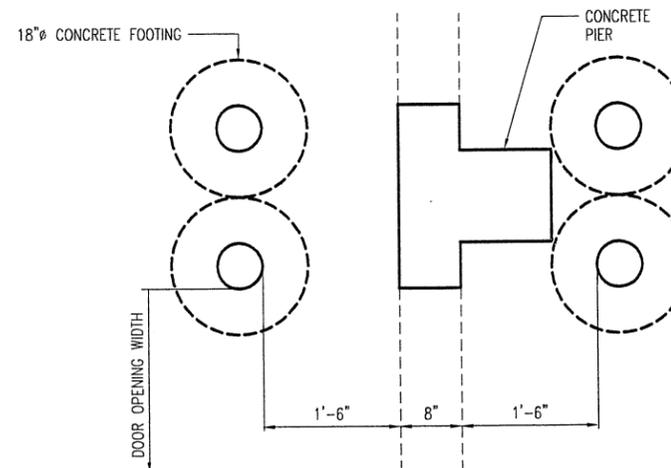
MISSOURI DEPARTMENT
 OF TRANSPORTATION
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FOUNDATION DETAILS

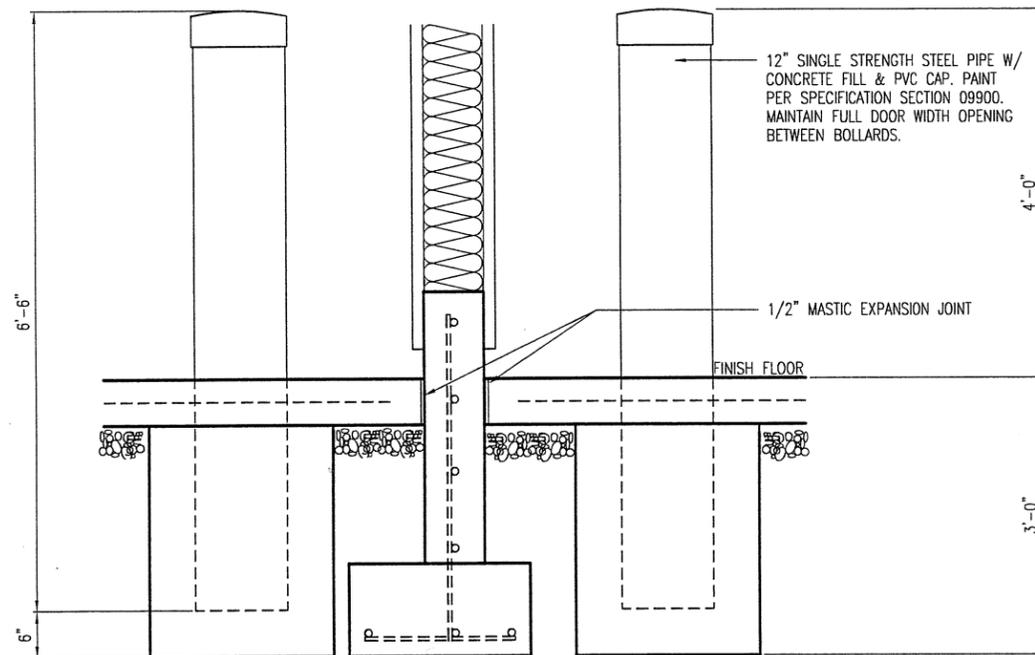
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 SHEET 4 OF 38



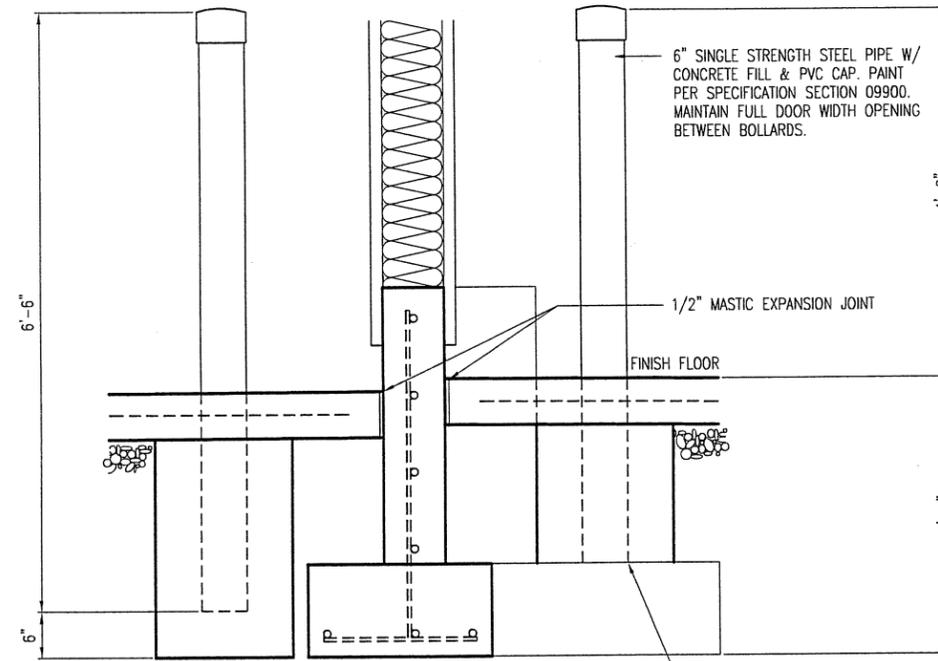
PLAN



PLAN



ELEVATION

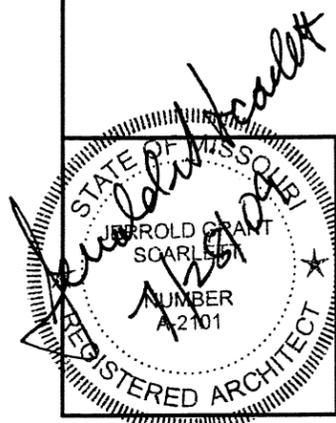


ELEVATION

INSIDE POST CUT OFF TO SET ON PIER, MAINTAIN 4' HEIGHT.

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

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

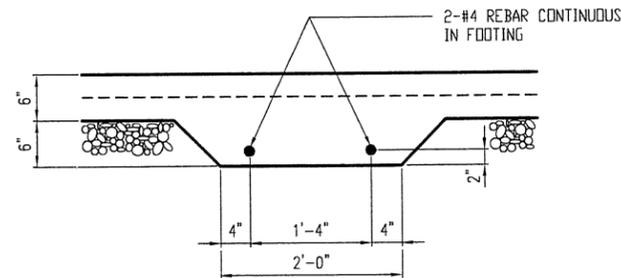


DISTRICT 4 - 650 MULBERRY
MAINTENANCE BUILDING

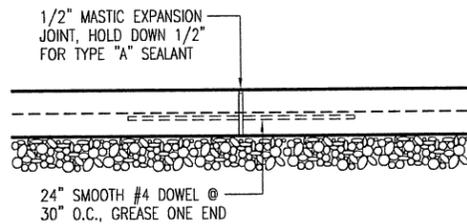
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GENERAL SERVICES
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FOUNDATION DETAILS

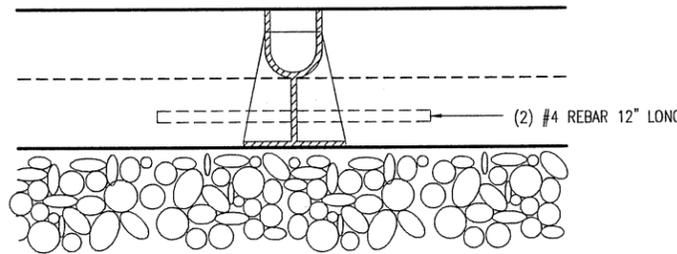
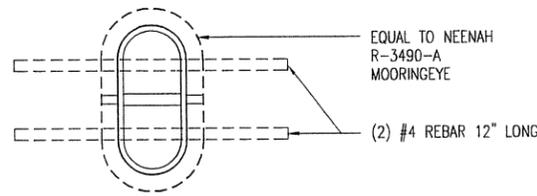
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DRAWN BY: LARRY CARVER
DATE: 5-29-09
CHECK BY: JERROLD SCARLETT
SHEET 5 OF 38



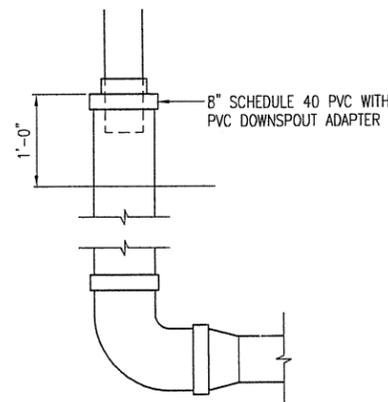
A INTERIOR BEARING FOOTING
 6 SCALE: 1/2" = 1'-0"



C EXPANSION JOINT
 6 SCALE: 1/2" = 1'-0"



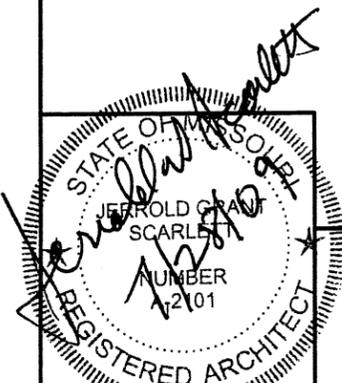
B MOORING EYE
 6 SCALE: 1-1/2" = 1'-0"



D DOWNSPOUT ADAPTER
 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 2000 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 4000 PSI @ 28 DAYS WITH 4" SLUMP.
5. CONCRETE EXPOSED TO THE EXTERIOR SHALL RECEIVE AIR ENTRAINMENT 5% +/- 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 W/ 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 PRC PERMAPOL "RC-550" JOINT SEALANT OR AN APPROVED EQUAL.
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.

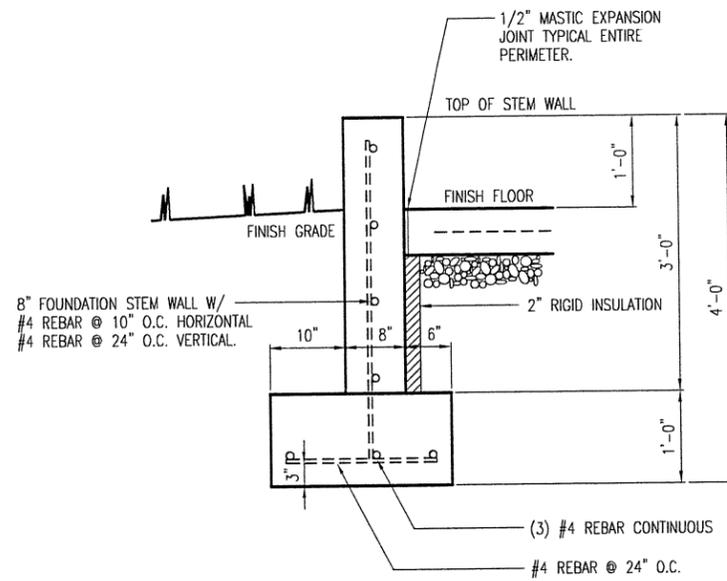


DISTRICT 4 - 650 MULBERRY
 MAINTENANCE BUILDING

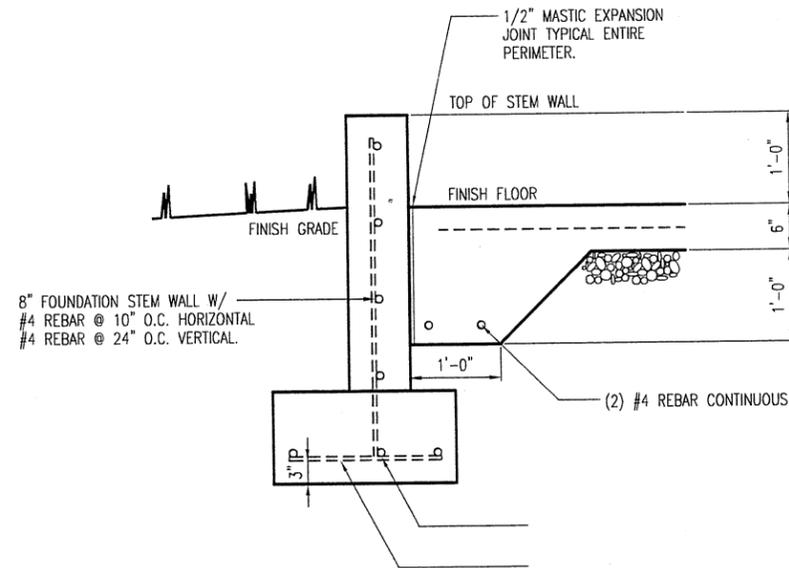
MISSOURI DEPARTMENT
 OF TRANSPORTATION
 GENERAL SERVICES
 FACILITIES MANAGEMENT

FOUNDATION DETAILS

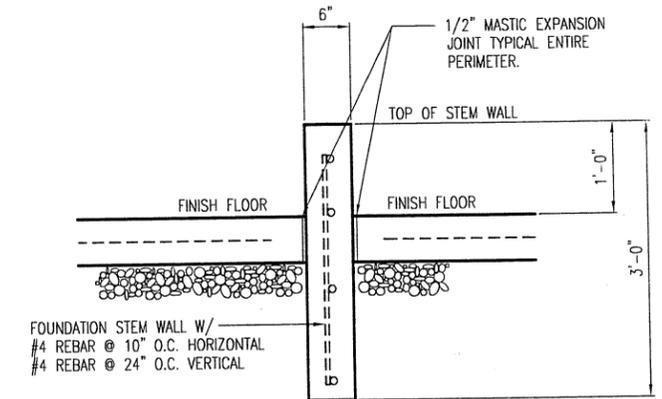
DESIGN BY: DOUG RECORD
 DRAWN BY: LARRY CARVER
 DATE: 5-29-09
 CHECK BY: JERROLD SCARLETT
 SHEET 6 of 38



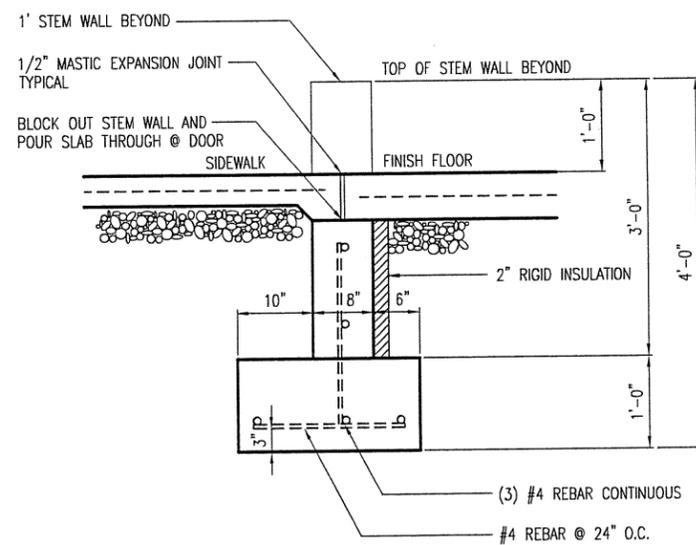
A EXTERIOR STEM WALL
7 SCALE: 1/2" = 1'-0"



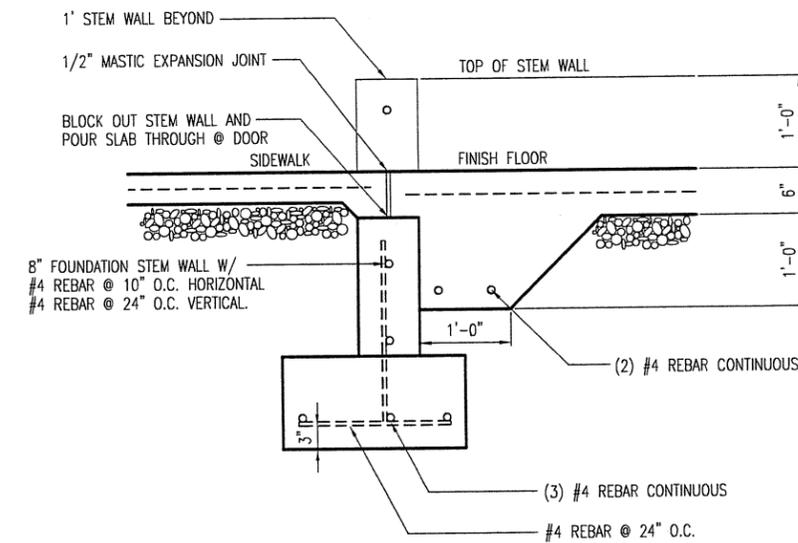
C EXTERIOR STEM WALL
7 SCALE: 1/2" = 1'-0"



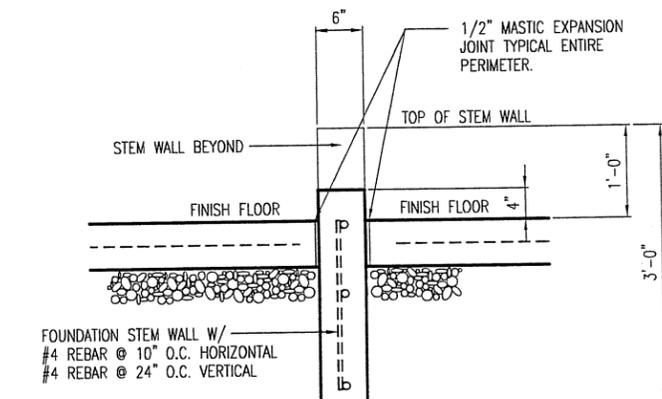
E INTERIOR STEM WALL
7 SCALE: 1/2" = 1'-0"



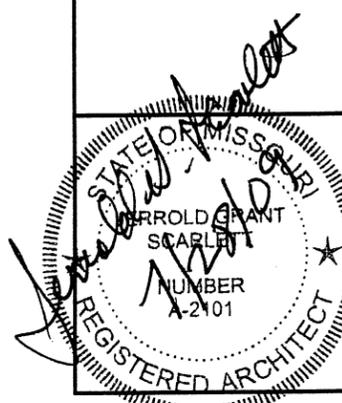
B EXTERIOR STEM WALL @ DOOR
7 SCALE: 1/2" = 1'-0"



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



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

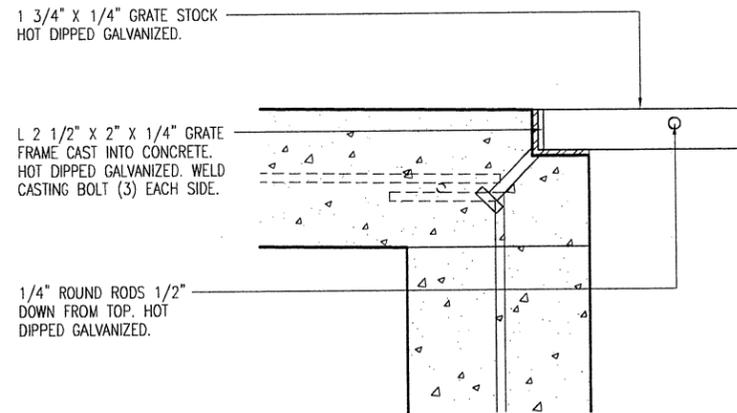


DISTRICT 4 - 650 MULBERRY
MAINTENANCE BUILDING

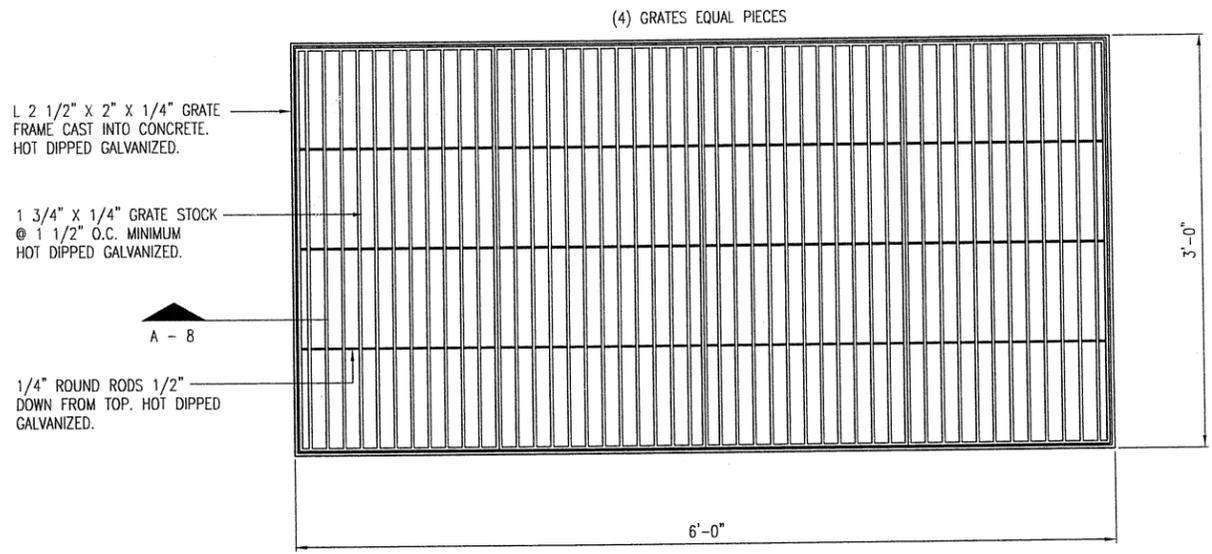
MISSOURI DEPARTMENT
OF TRANSPORTATION
GENERAL SERVICES
FACILITIES MANAGEMENT

FOUNDATION DETAILS

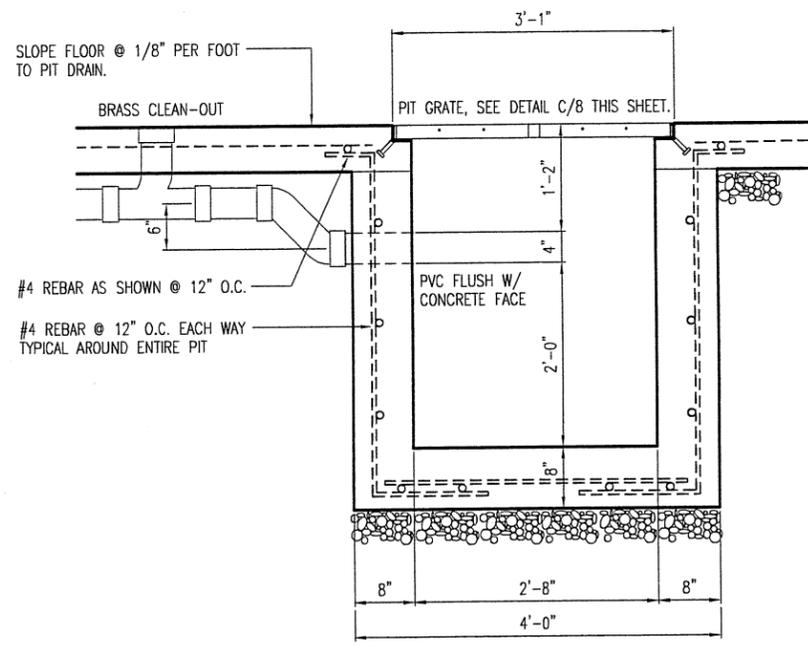
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DRAWN BY: LARRY CARVER
DATE: 5-29-09
CHECK BY: JERROLD SCARLETT
SHEET 7 of 38



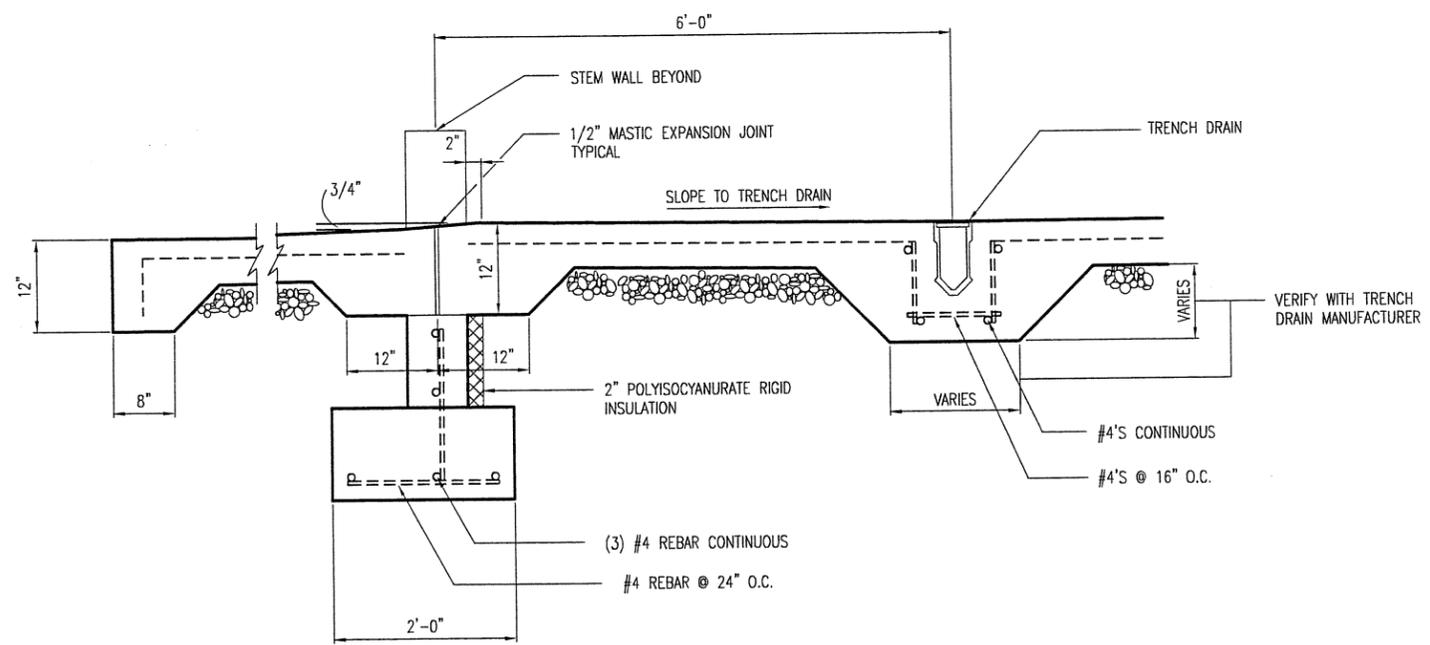
A GRATE SECTION
 8 SCALE: 1-1/2" = 1'-0"



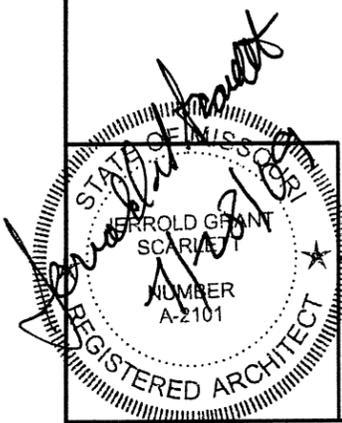
C PIT DRAIN GRATE
 8 SCALE: 3/4" = 1'-0"



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



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

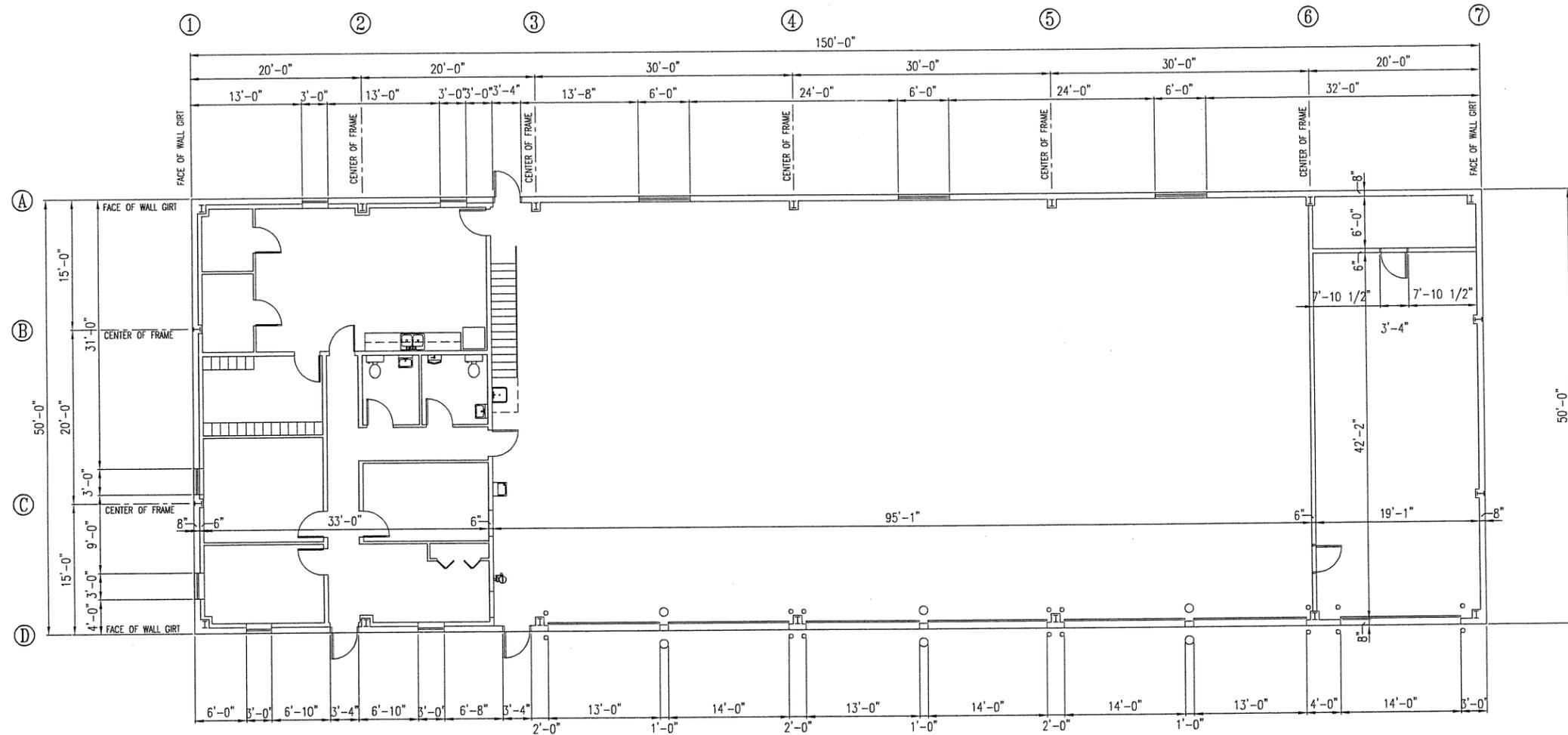


DISTRICT 4 - 650 MULBERRY
 MAINTENANCE BUILDING

MISSOURI DEPARTMENT
 OF TRANSPORTATION
 GENERAL SERVICES
 FACILITIES MANAGEMENT

FOUNDATION DETAILS

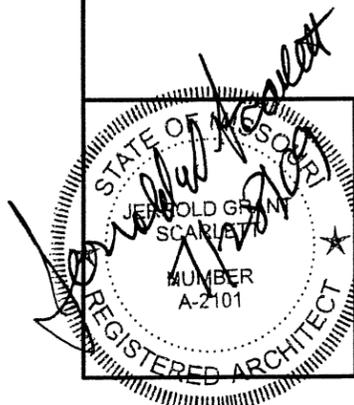
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 DATE: 5-29-09
 CHECK BY: JERROLD SCARLETT
 SHEET 8 of 38



SEE OFFICE DIMENSION PLAN

DIMENSIONAL FLOOR PLAN

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

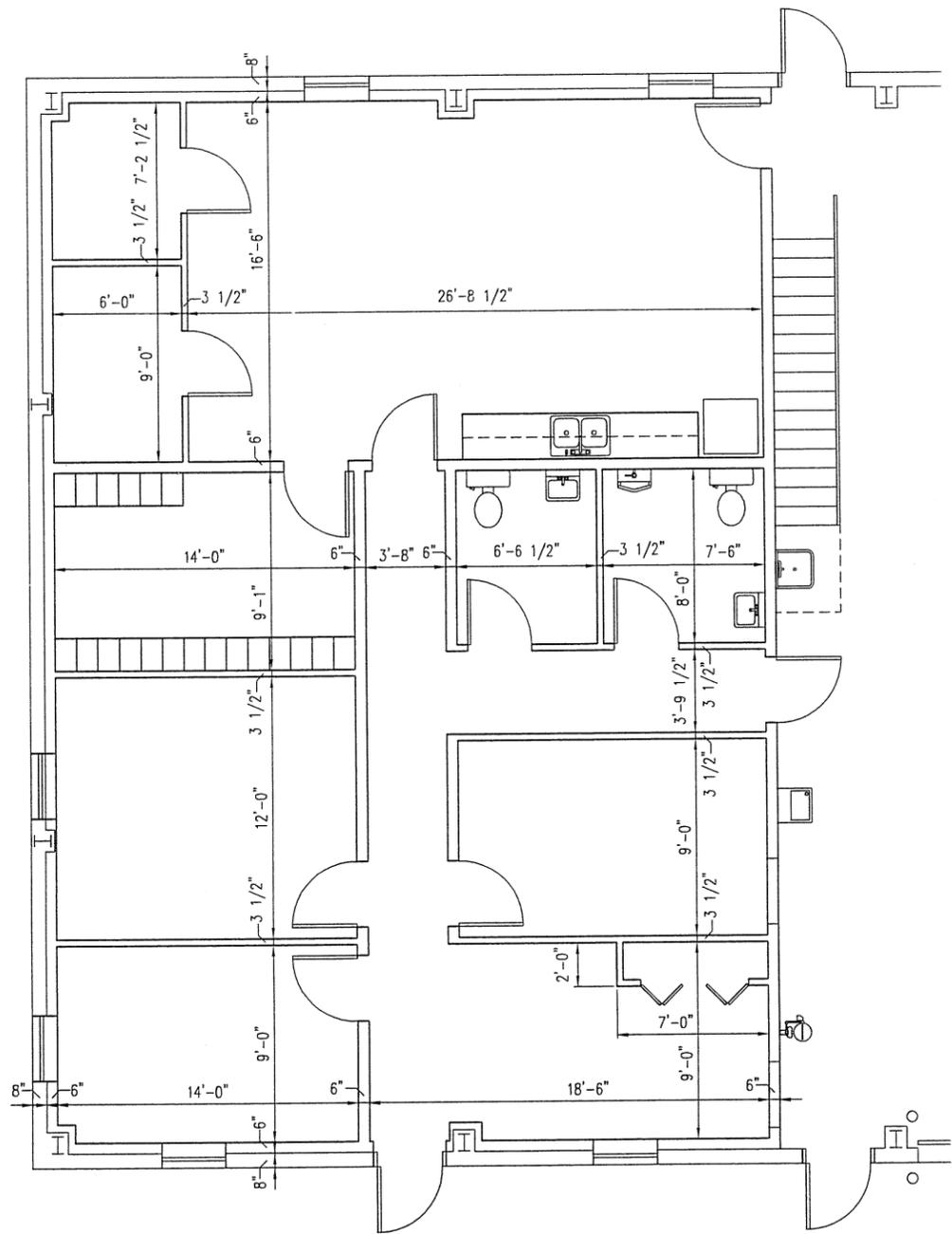


DISTRICT 4 - 650 MULBERRY
MAINTENANCE BUILDING

MISSOURI DEPARTMENT
OF TRANSPORTATION
GENERAL SERVICES
FACILITIES MANAGEMENT

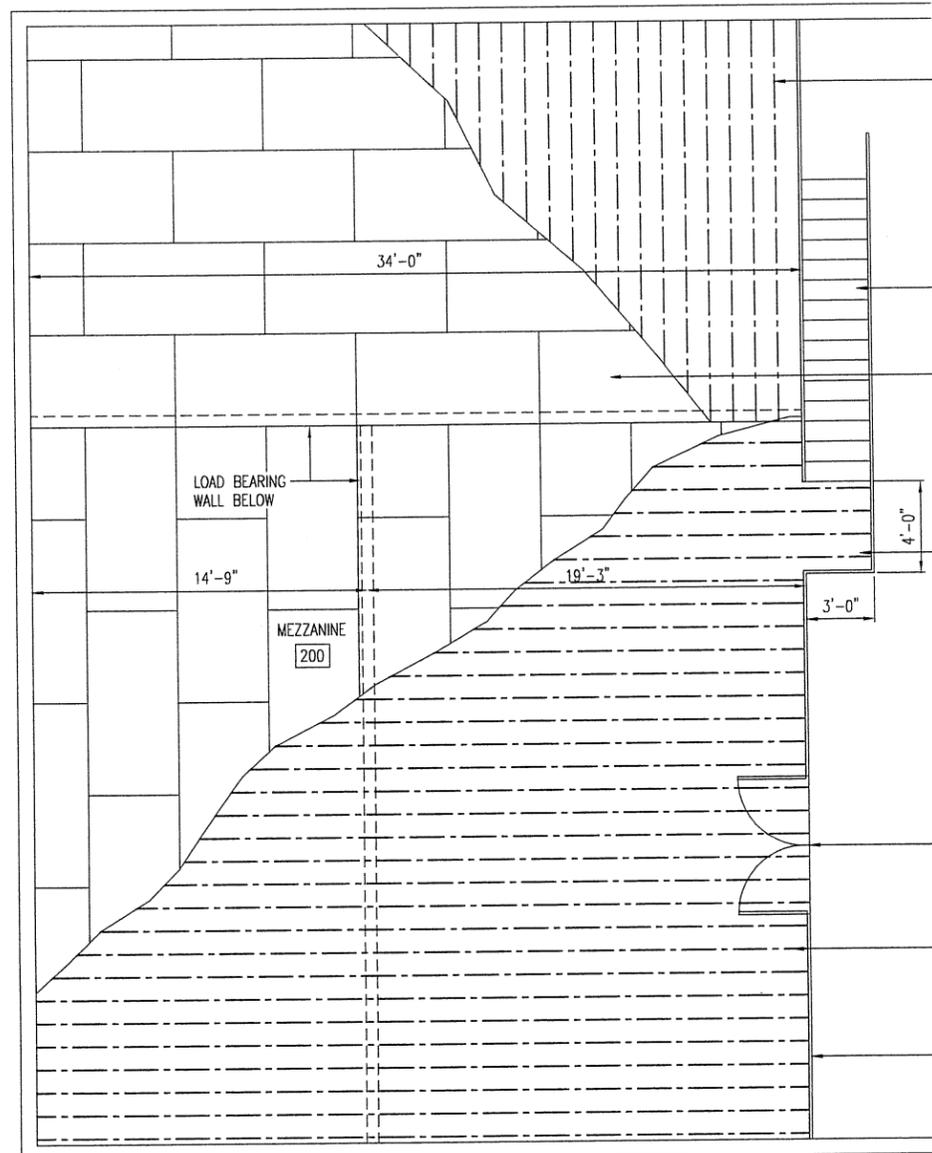
DIMENSIONAL FLOOR PLAN

DESIGN BY: DOUG RECORD
DRAWN BY: LARRY CARVER
DATE: 5-29-09
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SHEET 9 OF 38



OFFICE DIMENSIONAL PLAN

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



MEZZANINE PLAN

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

WIDE FLANGE I-JOISTS EQUAL TO GEORGIA-PACIFIC 60 SERIES 11-7/8" DEPTH @ 12" O.C.

MEZZANINE STAIRS SEE DETAIL SHEET 17.

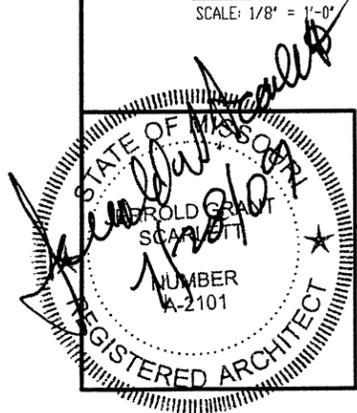
3/4" T&G APA RATED PLYWOOD SHEATHING EXPOSURE 1, GLUED AND SCREWED.

CANTILEVER FLOOR JOISTS TO CREATE LANDING.

MEZZANINE LOADING GATE SEE DETAIL SHEET 17.

WIDE FLANGE I-JOISTS EQUAL TO GEORGIA-PACIFIC 60 SERIES 11-7/8" DEPTH @ 12" O.C.

MEZZANINE HANDRAIL SEE DETAIL SHEET 17.

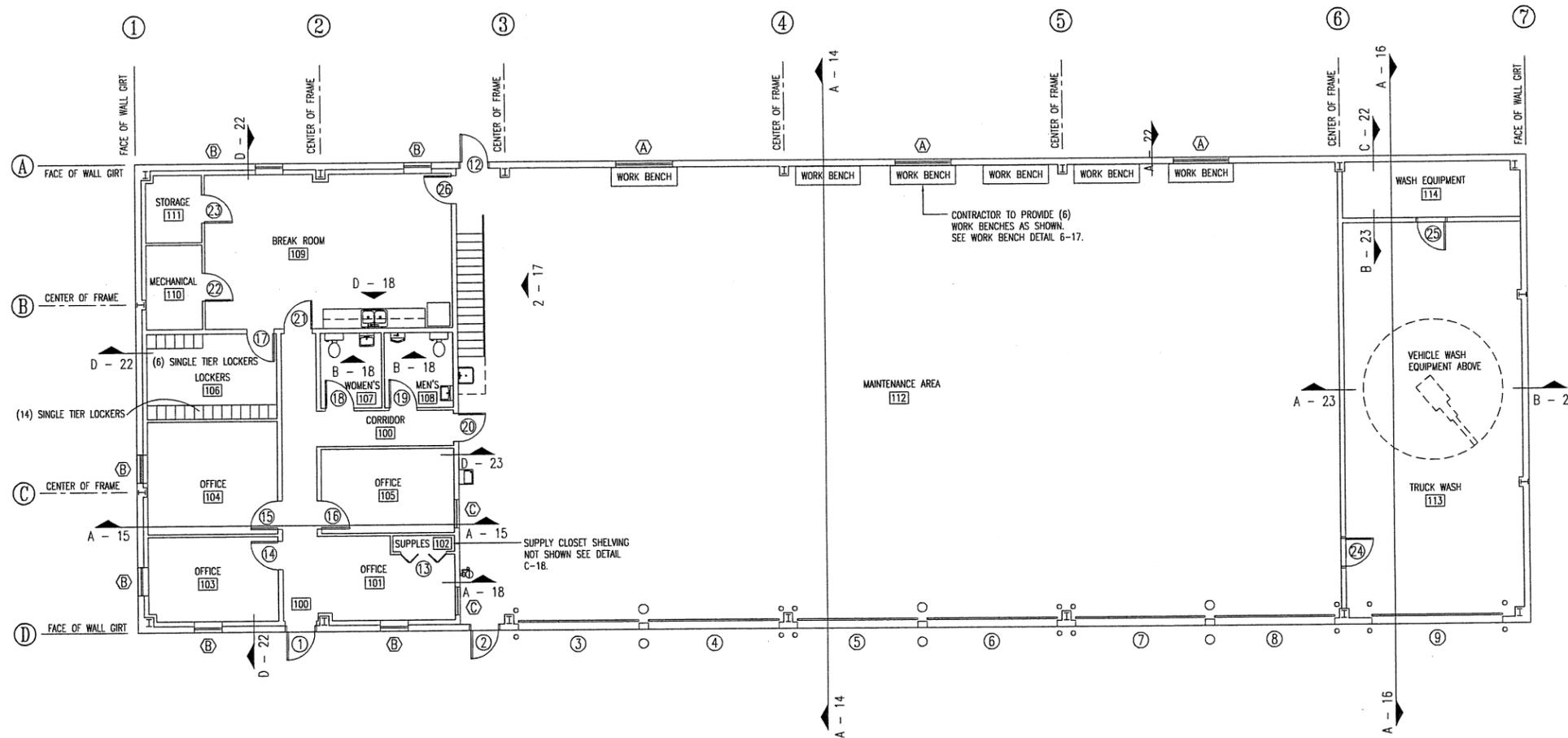


DISTRICT 4 - 650 MULBERRY MAINTENANCE BUILDING

MISSOURI DEPARTMENT OF TRANSPORTATION
GENERAL SERVICES FACILITIES MANAGEMENT

OFFICE DIMENSIONS

DESIGN BY: DOUG RECORD
DRAWN BY: LARRY CARVER
DATE: 5-29-09
CHECK BY: JERROLD SCARLETT
SHEET 10 of 38

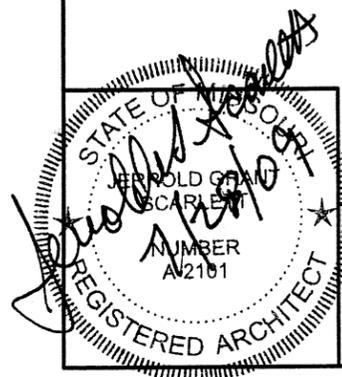


NOTES:

- 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.

ARCHITECTURAL FLOOR PLAN

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



DISTRICT 4 - 650 MULBERRY
MAINTENANCE BUILDING

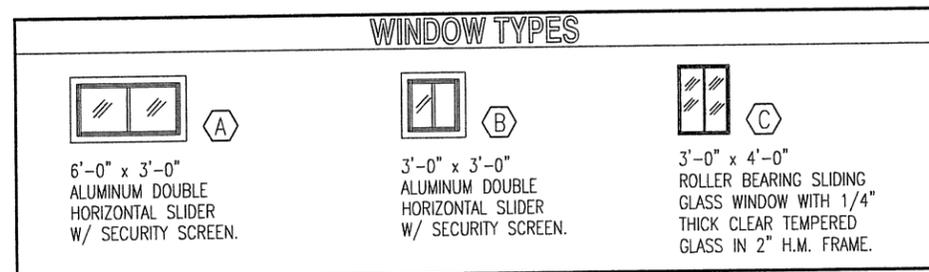
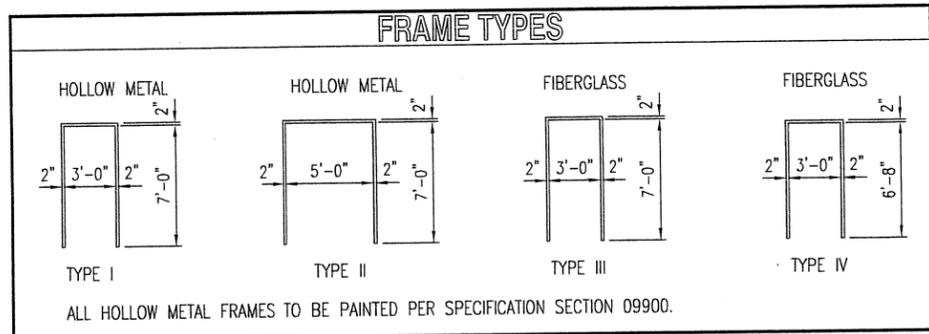
MISSOURI DEPARTMENT
OF TRANSPORTATION
GENERAL SERVICES
FACILITIES MANAGEMENT

ARCHITECTURAL FLOOR PLAN

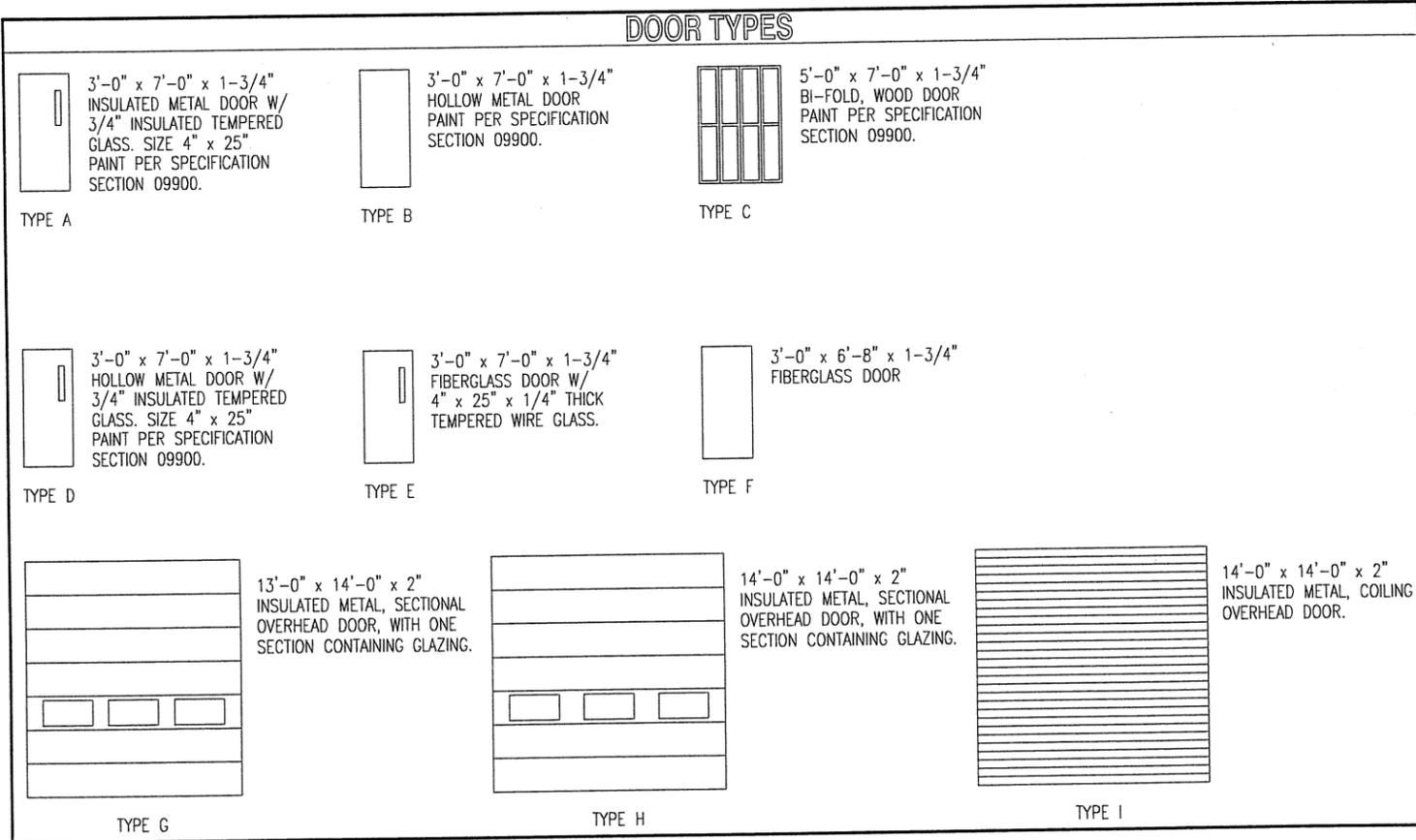
DESIGN BY: DOUG RECORD
DRAWN BY: LARRY CARVER
DATE: 5-29-09
CHECK BY: JERROLD SCARLETT
SHEET

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.	-	I-20	-
4	OH	14'-0" x 14'-0" x 2"	INSUL. MTL.	H	MTL.	-	I-20	-
5	OH	13'-0" x 14'-0" x 2"	INSUL. MTL.	G	MTL.	-	I-20	-
6	OH	14'-0" x 14'-0" x 2"	INSUL. MTL.	H	MTL.	-	I-20	-
7	OH	14'-0" x 14'-0" x 2"	INSUL. MTL.	H	MTL.	-	I-20	-
8	OH	13'-0" x 14'-0" x 2"	INSUL. MTL.	G	MTL.	-	I-20	-
9	OH	14'-0" x 14'-0" x 2"	INSUL. MTL.	I	MTL.	-	J-20	-
10	-	NOT USED	-	-	-	-	-	-
11	-	NOT USED	-	-	-	-	-	-
12	RHR	3'-0" x 7'-0" x 1-3/4"	INSUL. MTL.	A	MTL.	I	B-19	1
13	BI-FOLD	5'-0" x 7'-0" x 1-3/4"	HOLLOW MTL.	C	MTL.	II	G-20	-
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	G-20	3
19	LH	3'-0" x 7'-0" x 1-3/4"	HOLLOW MTL.	B	MTL.	I	G-20	3
20	LH	3'-0" x 7'-0" x 1-3/4"	HOLLOW MTL.	D	MTL.	I	H-20	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	H-20	5
23	LHR	3'-0" x 7'-0" x 1-3/4"	HOLLOW MTL.	B	MTL.	I	H-20	4
24	LH	3'-0" x 6'-8" x 1-3/4"	FIBERGLASS	F	FBRGLS	IV	D-19	4
25	LH	3'-0" x 6'-8" x 1-3/4"	FIBERGLASS	F	FBRGLS	IV	E-19	4
26	RH	3'-0" x 7'-0" x 1-3/4"	HOLLOW MTL.	D	MTL.	I	H-20	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		NONE	INTERIOR METAL LINER PANELS	SIMPLE SAVER INSULATION	5/8" TYPE "X" GYPSUM BOARD	5/8" MOISTURE RESISTANT GYP BD	7/16" FIBERGLASS REINF. PANELS	1/2" PLYWOOD	LATEX PAINT	ACOUSTICAL TILE	SIMPLE SAVER INSULATION
100	CORRIDOR	●	●	●	●											
101	CLERK	●	●	●	●											
102	OFFICE SUPPLIES	●	●	●	●											
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.

INTERIOR METAL LINER PANEL IN MECHANIC'S AREA TO STOP AT GIRT ABOVE PASSAGE DOORS & WINDOWS W/ J-CHANNEL, EXPOSED SIMPLE SAVER INSULATION ABOVE.

FRAME WALL IN MAINTENANCE AREA TO RECEIVE 1/2" PLYWOOD PAINTED PER SPECIFICATION 09900, WITH 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 EXTERIOR OVERHEAD DOOR JAMBS TO BE WRAPPED WITH SHEET STOCK.

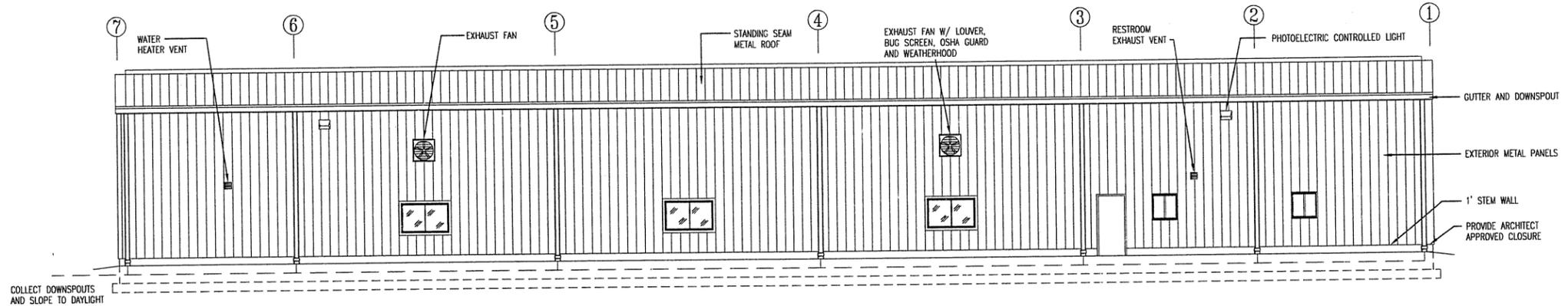


DISTRICT 4 - 650 MULBERRY MAINTENANCE BUILDING

MISSOURI DEPARTMENT OF TRANSPORTATION
GENERAL SERVICES FACILITIES MANAGEMENT

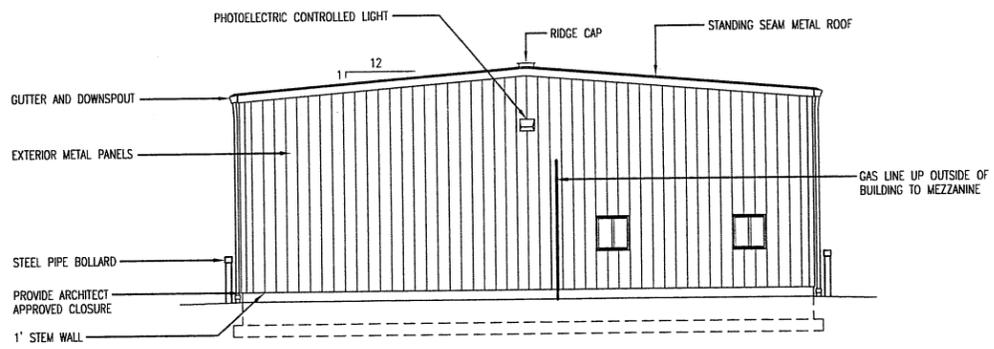
FLOOR SCHEDULES

DESIGN BY: DOUG RECORD
DRAWN BY: LARRY CARVER
DATE: 5-29-09
CHECK BY: JERROLD SCARLETT
SHEET 12 OF 38



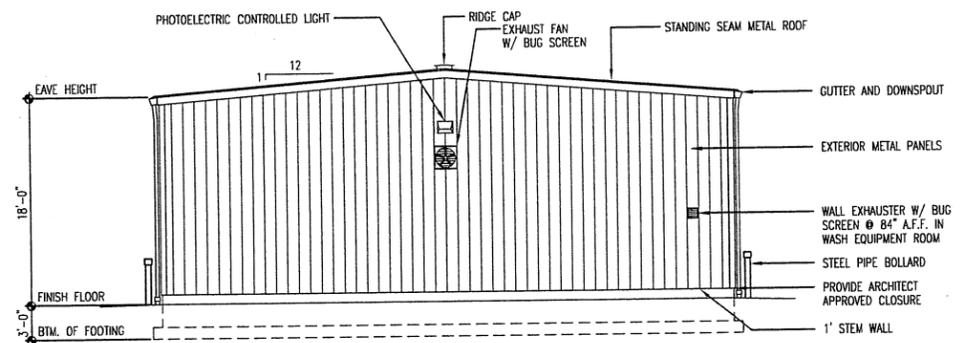
BACK ELEVATION

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



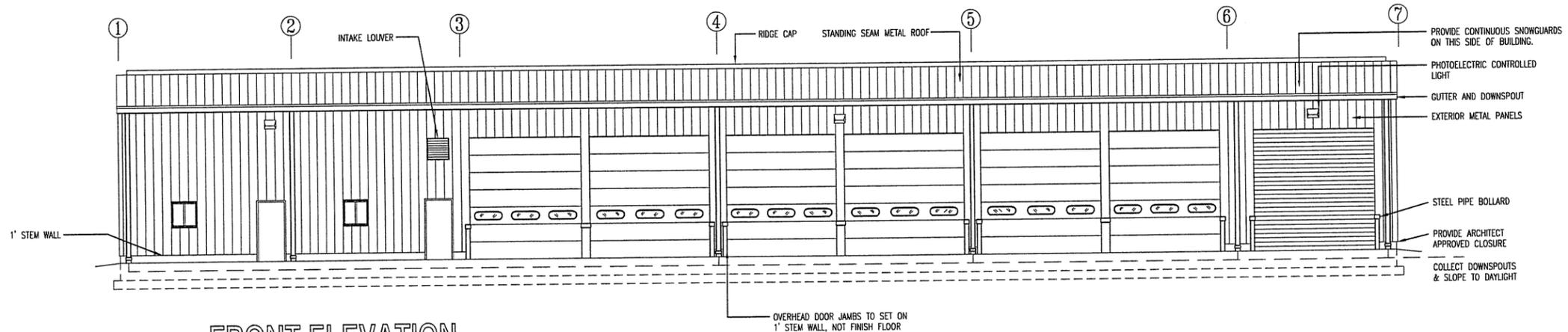
LEFT ELEVATION

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



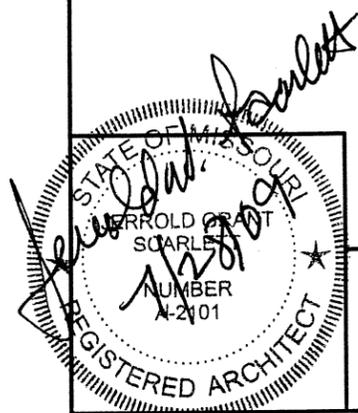
RIGHT ELEVATION

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



FRONT ELEVATION

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

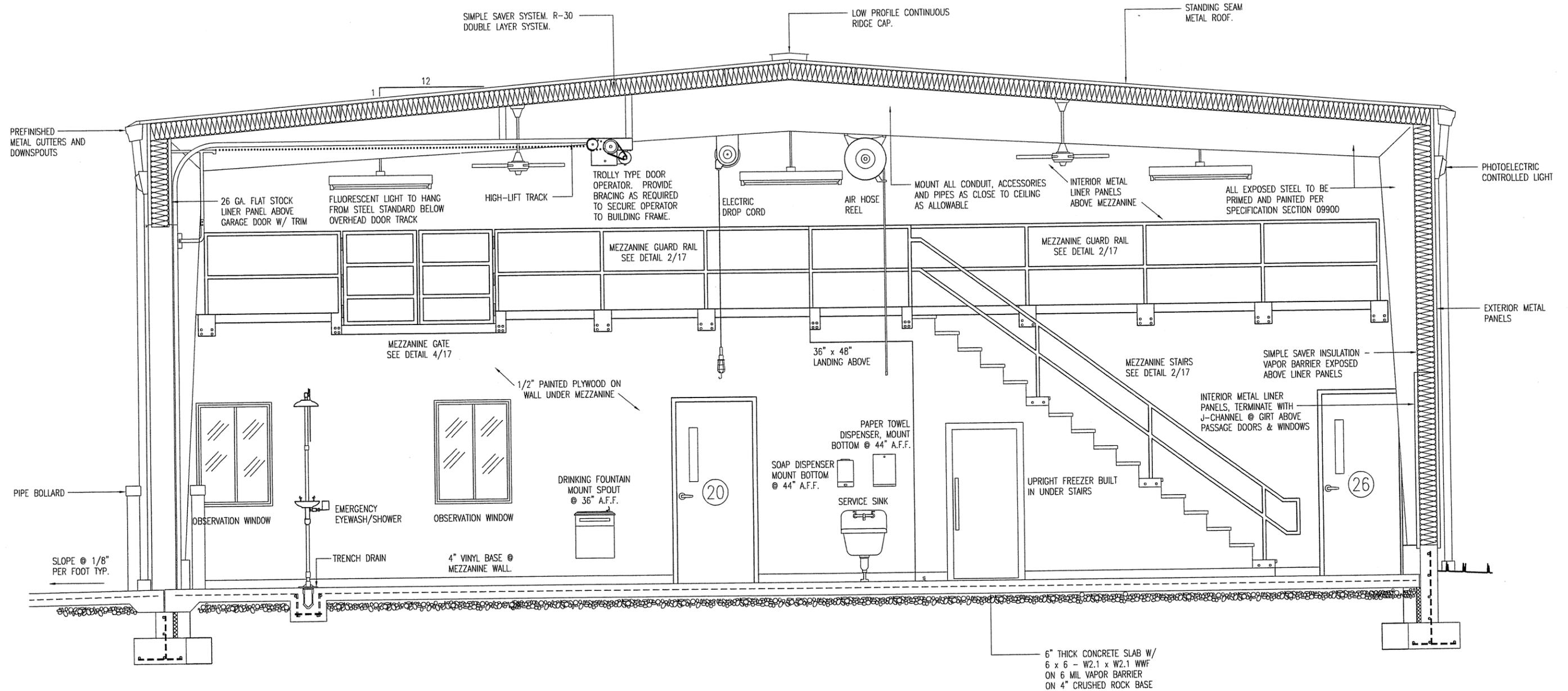


DISTRICT 4 - 650 MULBERRY
MAINTENANCE BUILDING

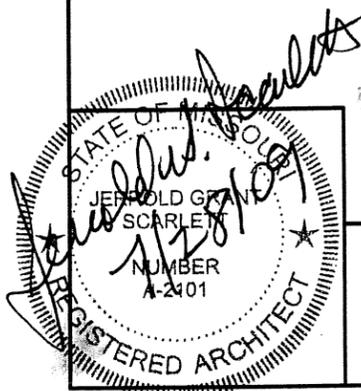
MISSOURI DEPARTMENT
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GENERAL SERVICES
FACILITIES MANAGEMENT

ELEVATIONS

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DRAWN BY: LARRY CARVER
DATE: 5-29-09
CHECK BY: JERROLD SCARLETT
SHEET 13 of 38



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

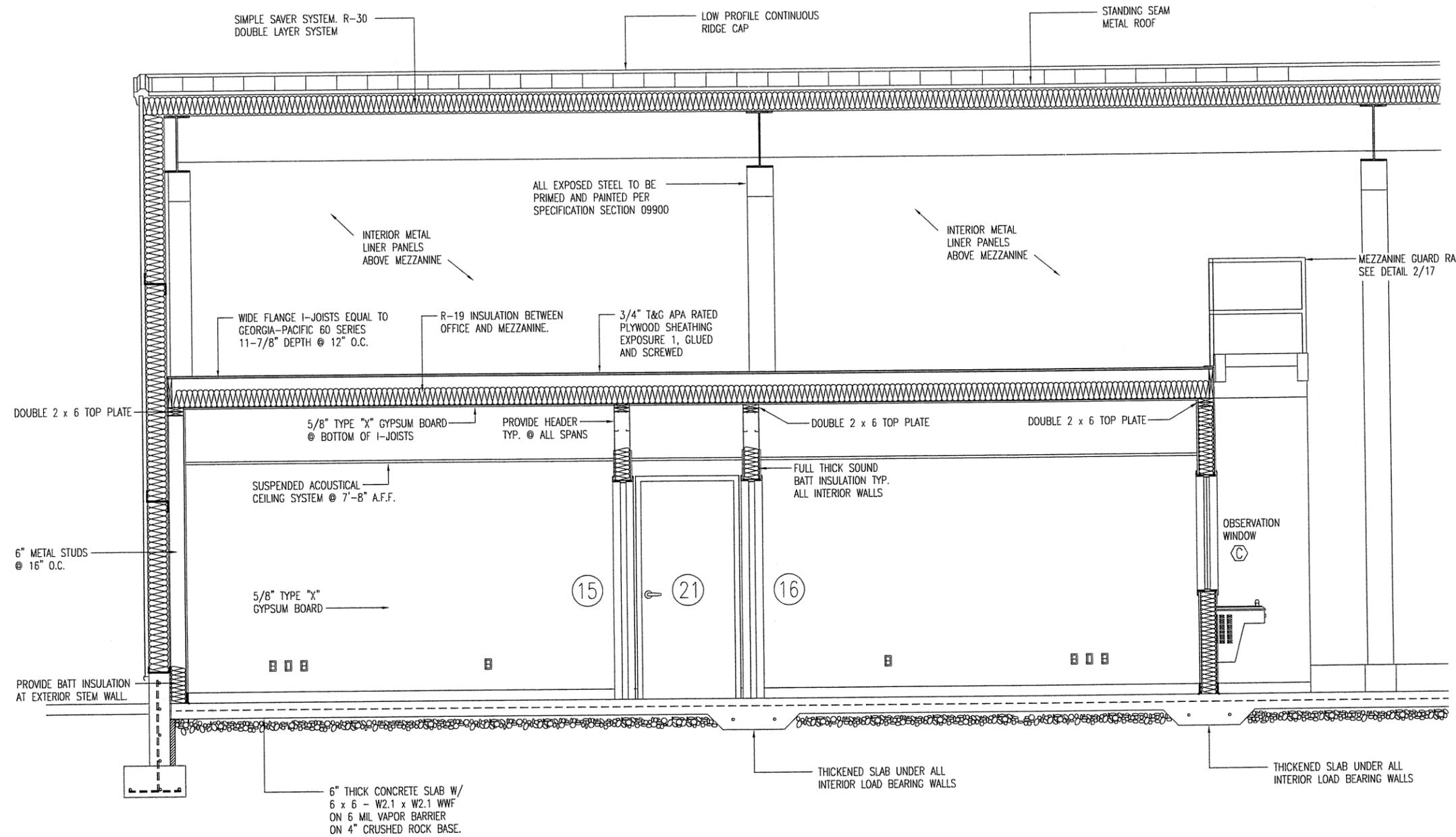


DISTRICT 4 - 650 MULBERRY
 MAINTENANCE BUILDING

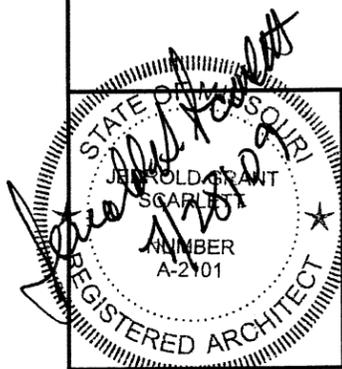
MISSOURI DEPARTMENT
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BUILDING SECTION

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 DRAWN BY: LARRY CARVER
 DATE: 5-29-09
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A PARTIAL BUILDING SECTION
 15 SCALE: 1/4" = 1'-0"

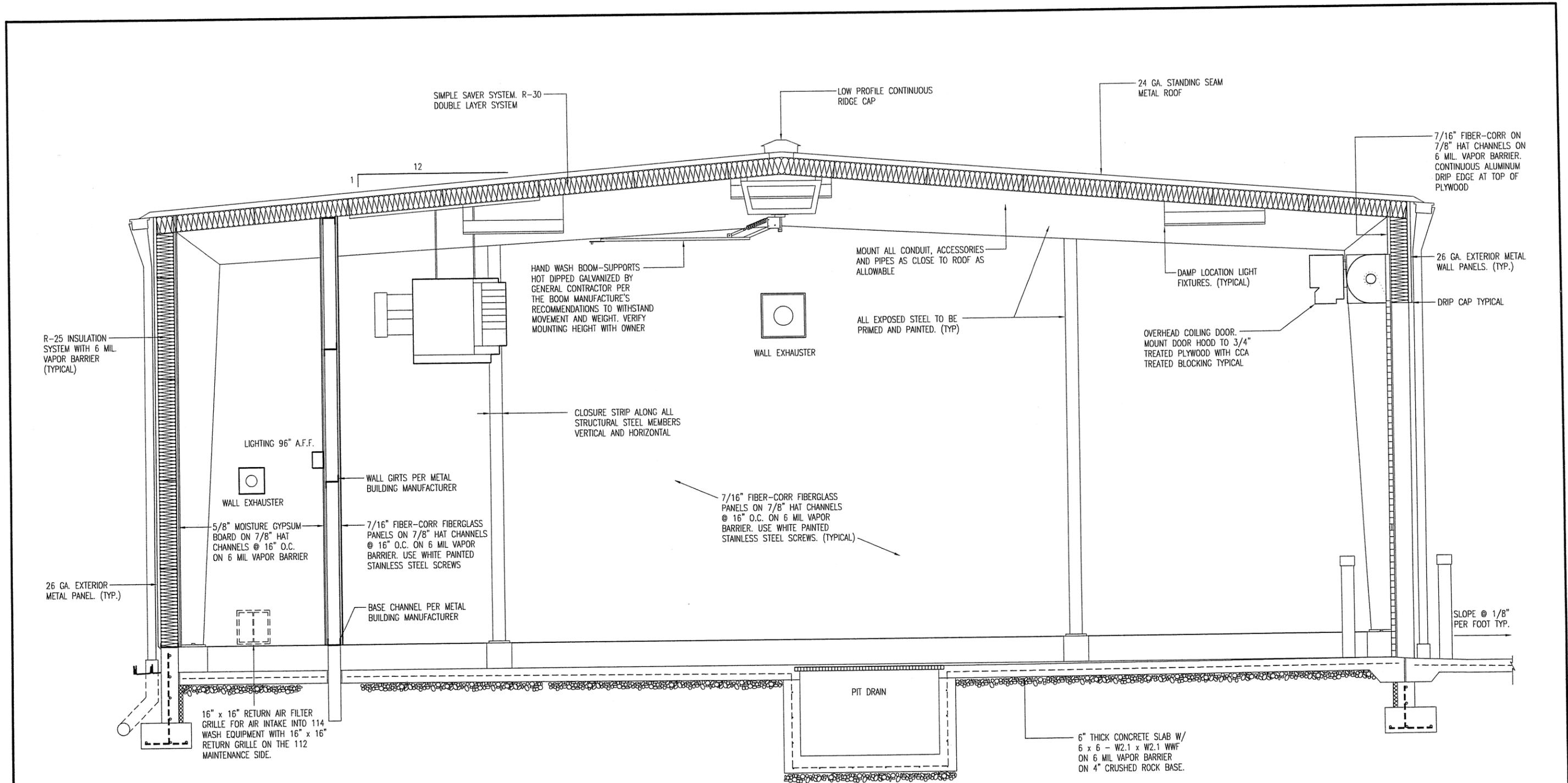


DISTRICT 4 - 650 MULBERRY
 MAINTENANCE BUILDING

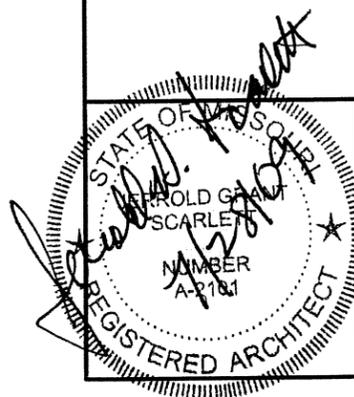
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BUILDING SECTION

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

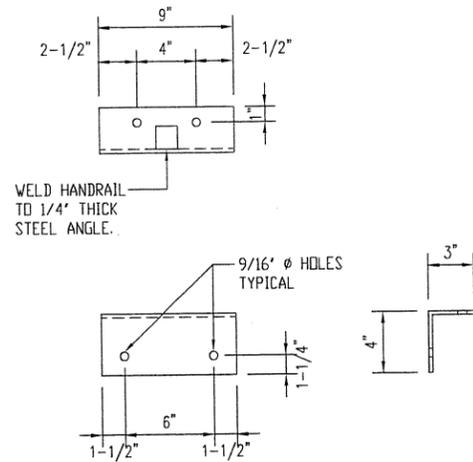


DISTRICT 4 - 650 MULBERRY
 MAINTENANCE BUILDING

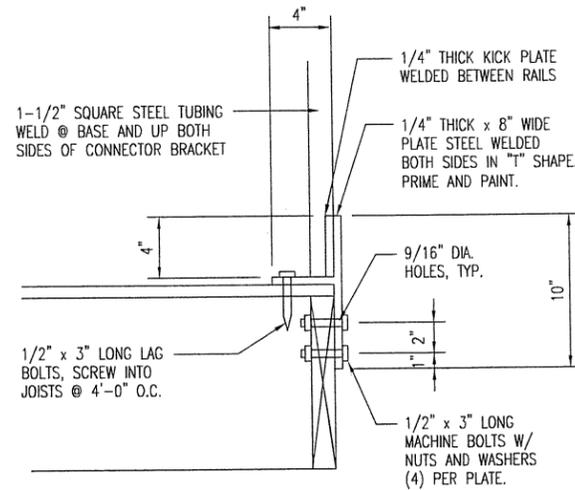
MISSOURI DEPARTMENT
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 FACILITIES MANAGEMENT

BUILDING SECTION

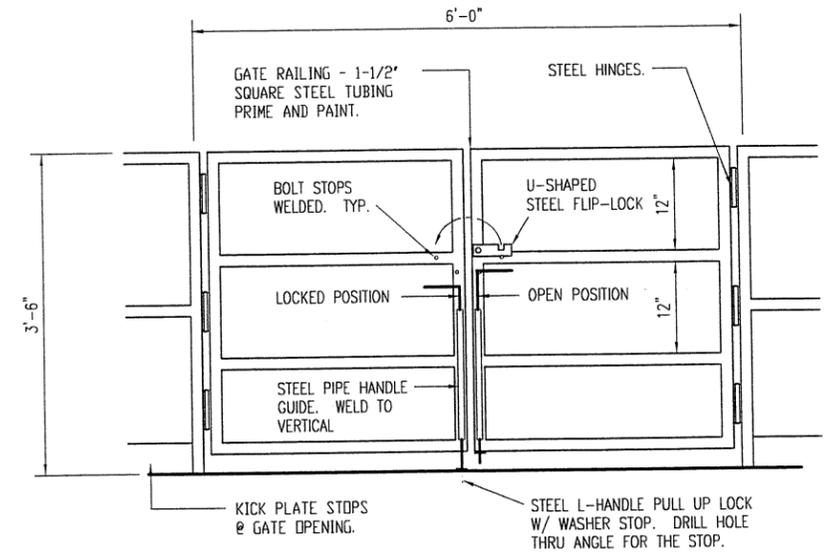
DESIGN BY: DOUG RECORD
 DRAWN BY: LARRY CARVER
 DATE: 5-29-09
 CHECK BY: JERROLD SCARLETT
 SHEET 16 of 38



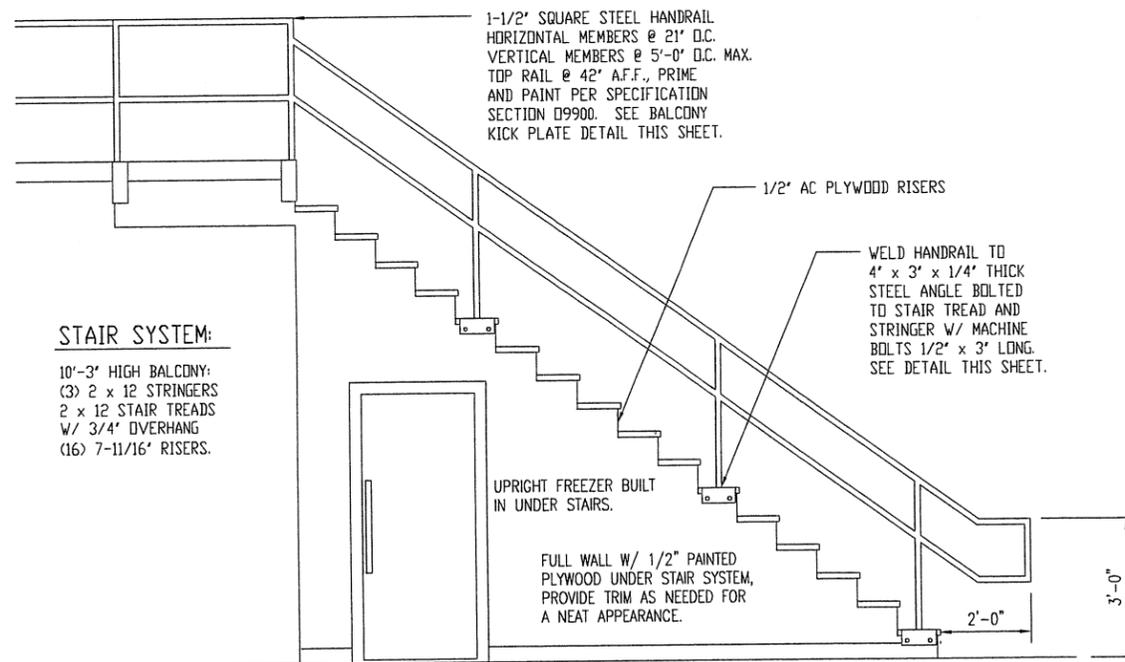
1 STAIR RAIL CONNECTION
17 1" = 1'-0"



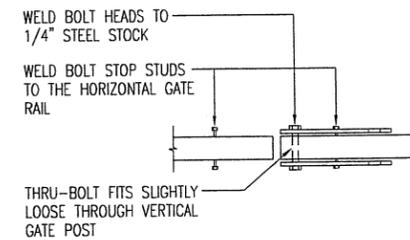
3 KICK PLATE DETAIL
17 1" = 1'-0"



4 SWING GATE DETAIL
17 1" = 1'-0"

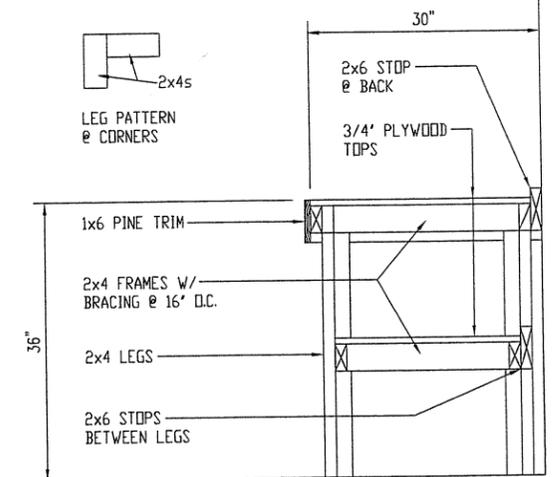


2 MEZZANINE STAIR SYSTEM
17 1/4" = 1'-0"

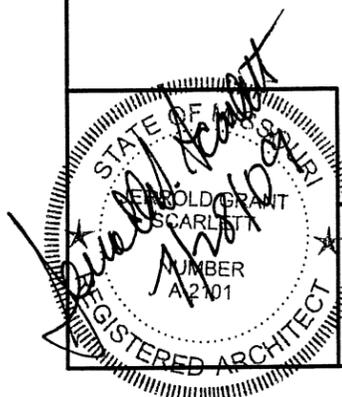


5 FLIP LOCK
17 1" = 1'-0"

PROVIDE (6) WORK BENCHES IN 7'-0" LENGTHS AS SHOWN ON ARCHITECTURAL FLOOR PLAN.



6 WORK BENCH DETAIL
17 1/4" = 1'-0"



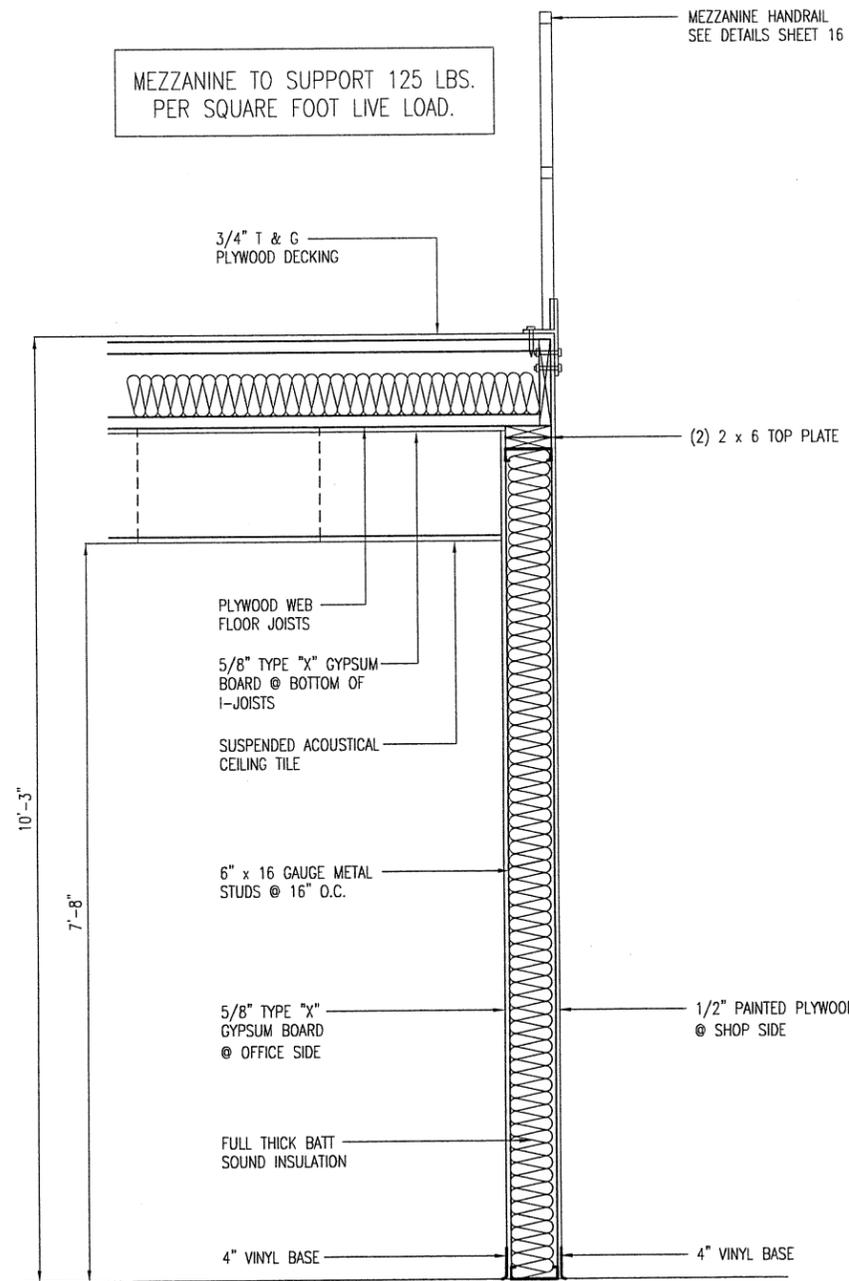
DISTRICT 4 - 650 MULBERRY
MAINTENANCE BUILDING

MISSOURI DEPARTMENT
OF TRANSPORTATION
GENERAL SERVICES
FACILITIES MANAGEMENT

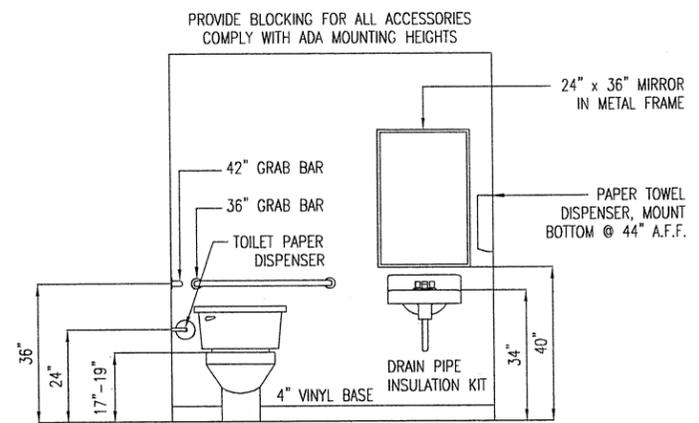
STAIR & RAILING DETAILS

DESIGN BY: DOUG RECORD
DRAWN BY: LARRY CARVER
DATE: 5-29-09
CHECK BY: JERROLD SCARLETT
SHEET 17 of 38

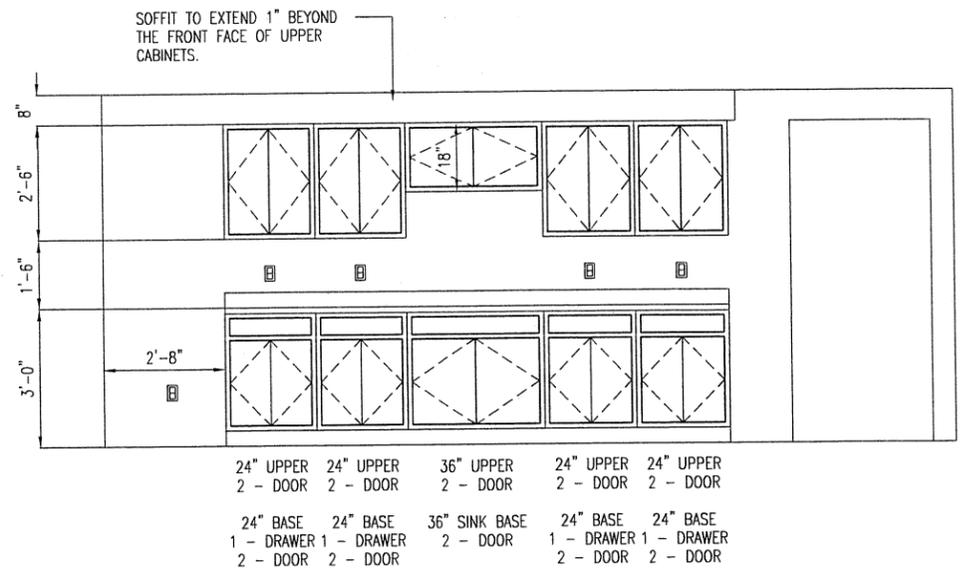
MEZZANINE TO SUPPORT 125 LBS. PER SQUARE FOOT LIVE LOAD.



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

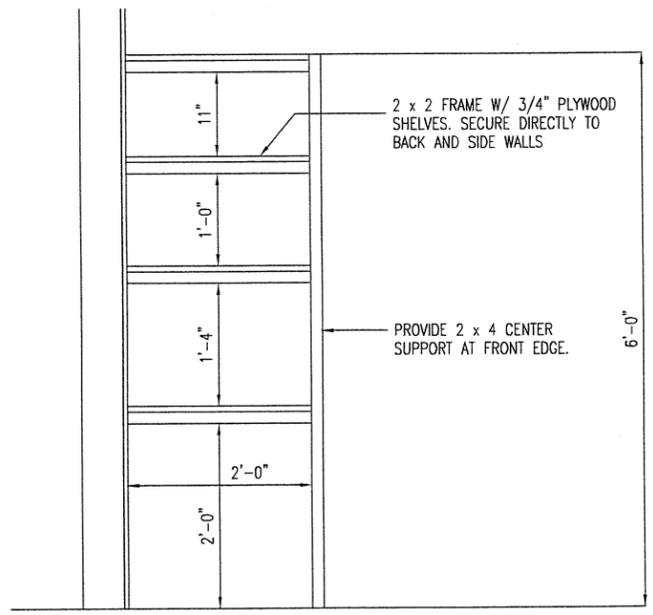


B RESTROOM ELEVATION
18 SCALE: 1/4" = 1'-0"

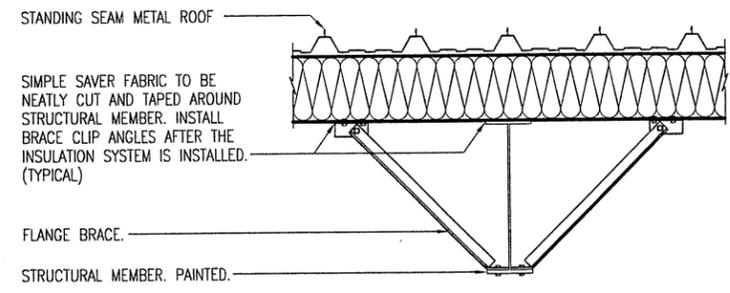


CABINET CONSTRUCTION
CABINETS - PLASTIC LAMINATE ON 3/4" HIGH DENSITY PARTICLE BOARD WITH WHITE MELAMINE INTERIORS, WIRE PULLS, AND ADJUSTABLE SHELVES.
DRAWERS TO HAVE METAL GLIDES, WIRE PULLS, AND MELAMINE INTERIORS.
COUNTER TOP & BACKSPASH - PLASTIC LAMINATE ON 3/4" HIGH DENSITY PARTICLEBOARD.

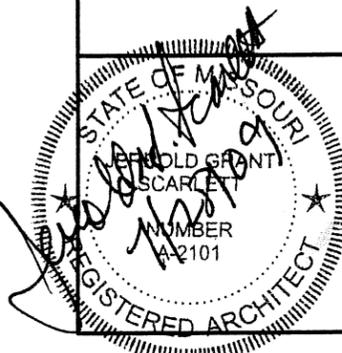
D BREAK ROOM CABINET LAYOUT
18 SCALE: 1/4" = 1'-0"



C SUPPLY CLOSET SHELVES
18 SCALE: 1/2" = 1'-0"



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

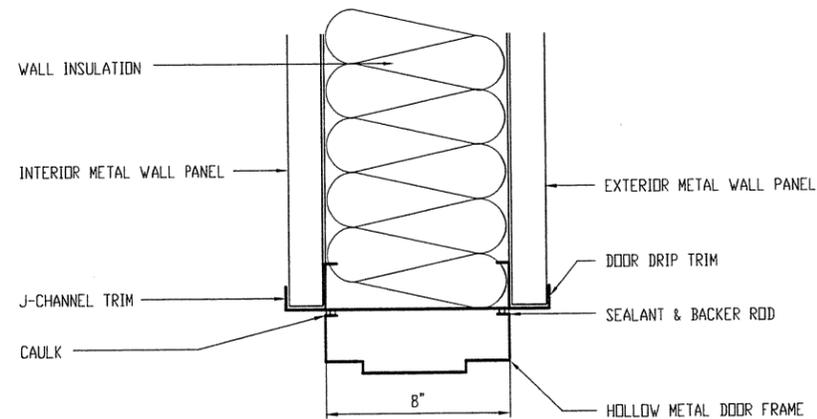


DISTRICT 4 - 650 MULBERRY
MAINTENANCE BUILDING

MISSOURI DEPARTMENT
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GENERAL SERVICES
FACILITIES MANAGEMENT

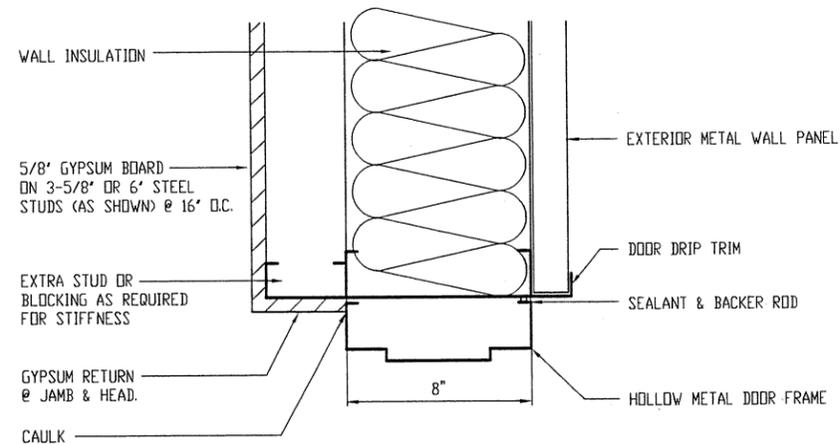
INTERIOR ELEVATIONS

DESIGN BY: DOUG RECORD
DRAWN BY: LARRY CARVER
DATE: 5-29-09
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SHEET 18 of 38



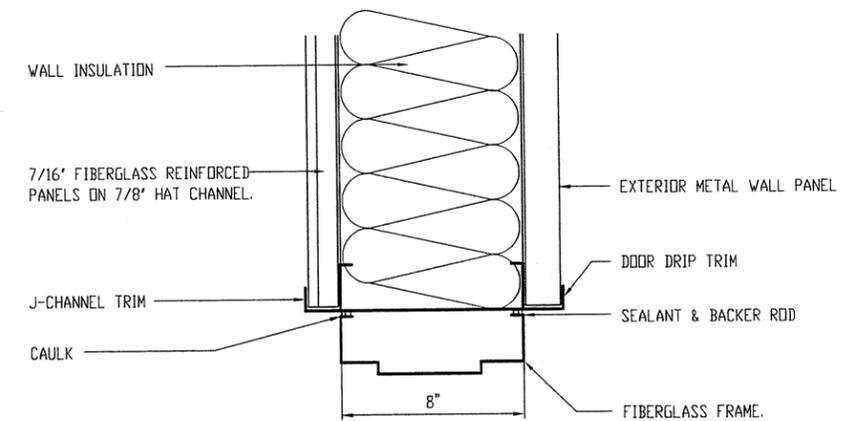
DOOR HEADER/JAMB TYPE A

1-1/2' = 1'-0"



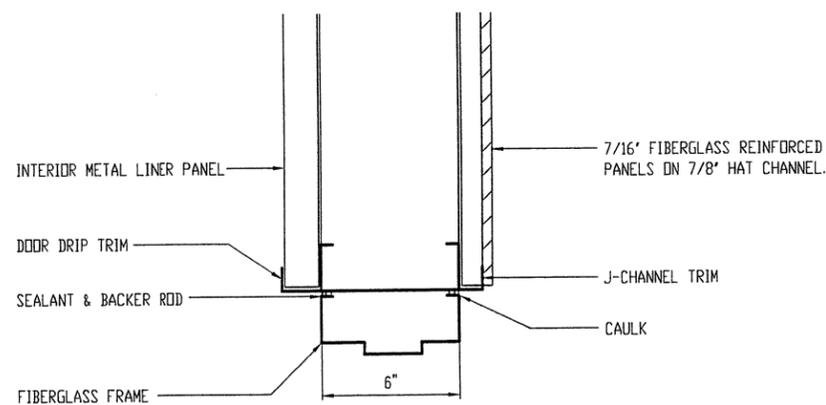
DOOR HEADER/JAMB TYPE B

1-1/2' = 1'-0"



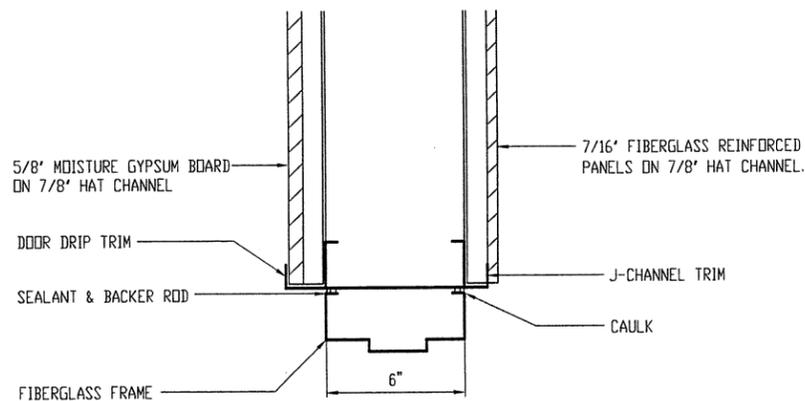
DOOR HEADER/JAMB TYPE C

1-1/2' = 1'-0"



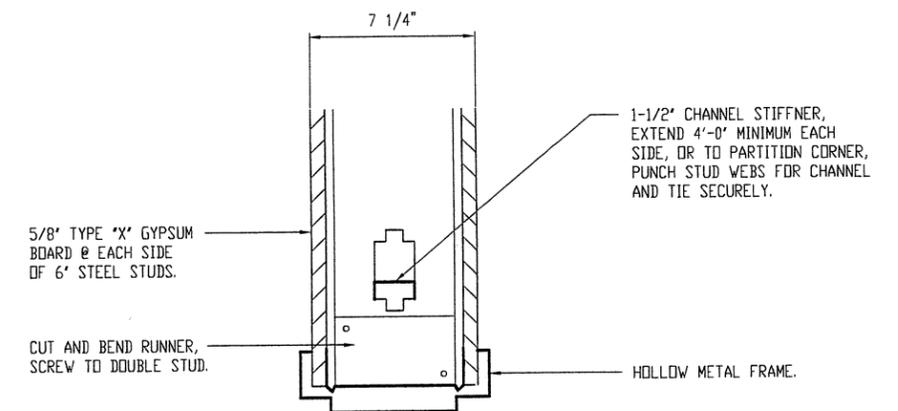
DOOR HEADER/JAMB TYPE D

1-1/2' = 1'-0"



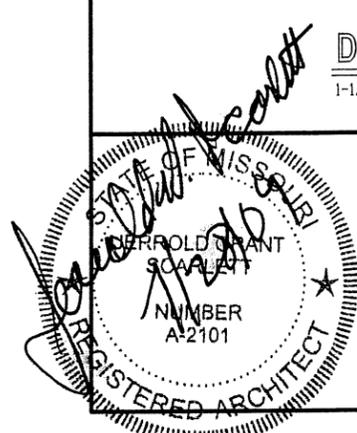
DOOR HEADER/JAMB TYPE E

1-1/2' = 1'-0"



DOOR HEADER/JAMB TYPE F

1-1/2' = 1'-0"

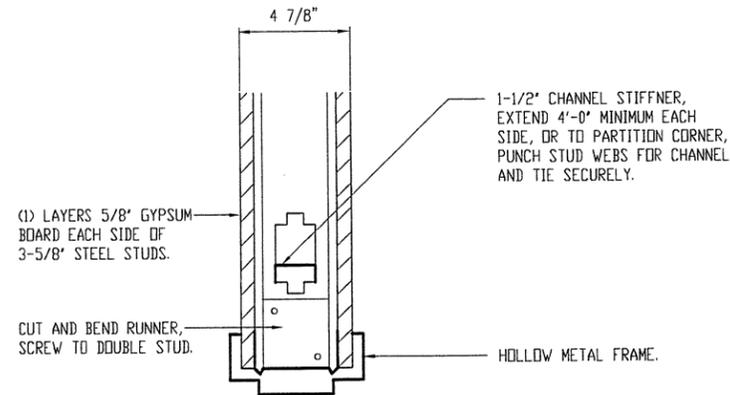


DISTRICT 4 - 650 MULBERRY
MAINTENANCE BUILDING

MISSOURI DEPARTMENT
OF TRANSPORTATION
GENERAL SERVICES
FACILITIES MANAGEMENT

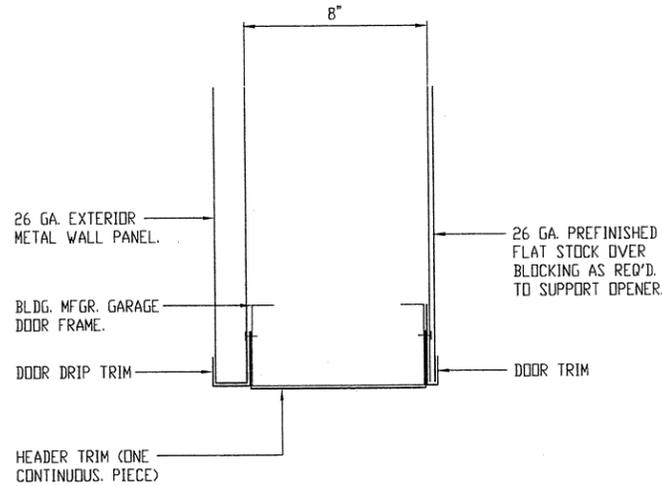
HEAD/JAMB DETAILS

DESIGN BY: DOUG RECORD
DRAWN BY: LARRY CARVER
DATE: 5-29-09
CHECK BY: JERROLD SCARLETT
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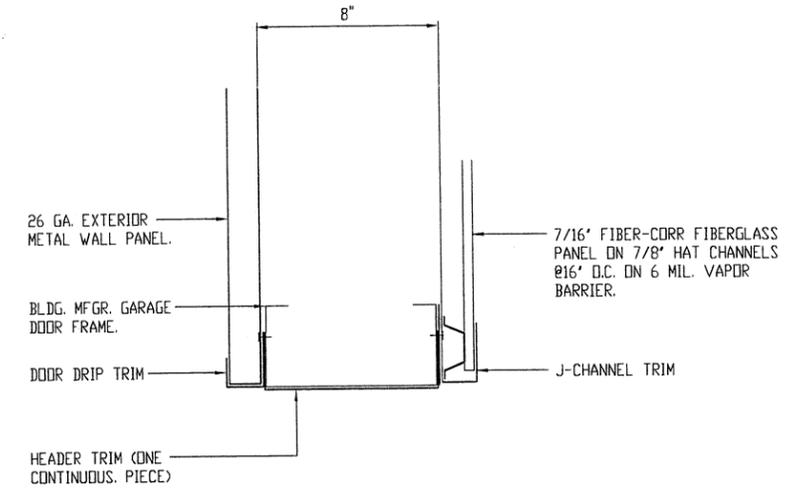
DOOR HEADER/JAMB TYPE G

1-1/2' = 1'-0"



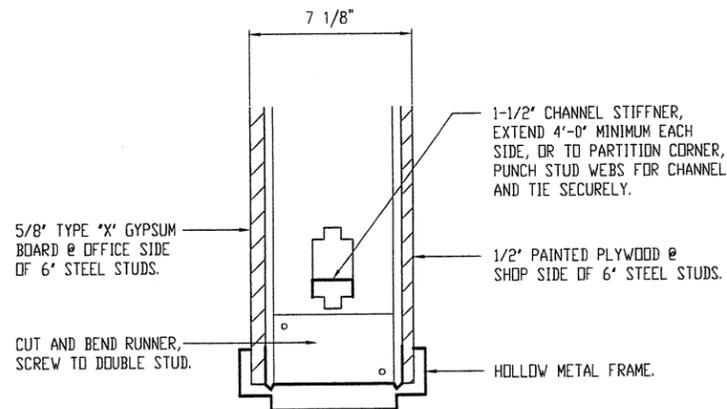
GARAGE DOOR HEAD TYPE I

1-1/2' = 1'-0"



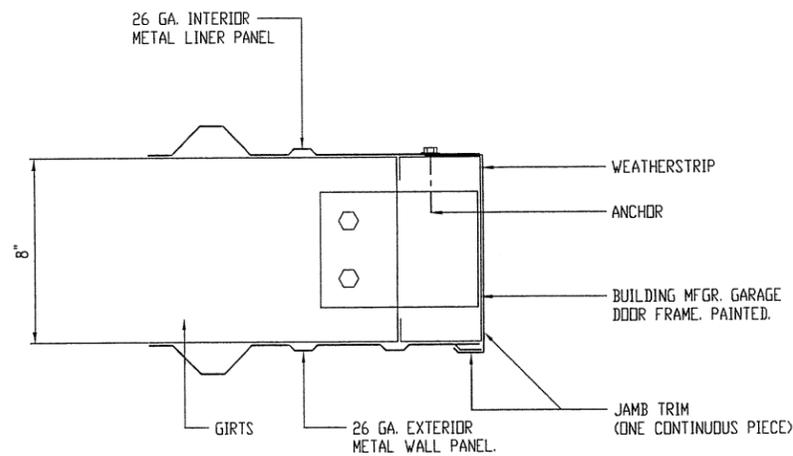
GARAGE DOOR HEAD TYPE J

1-1/2' = 1'-0"



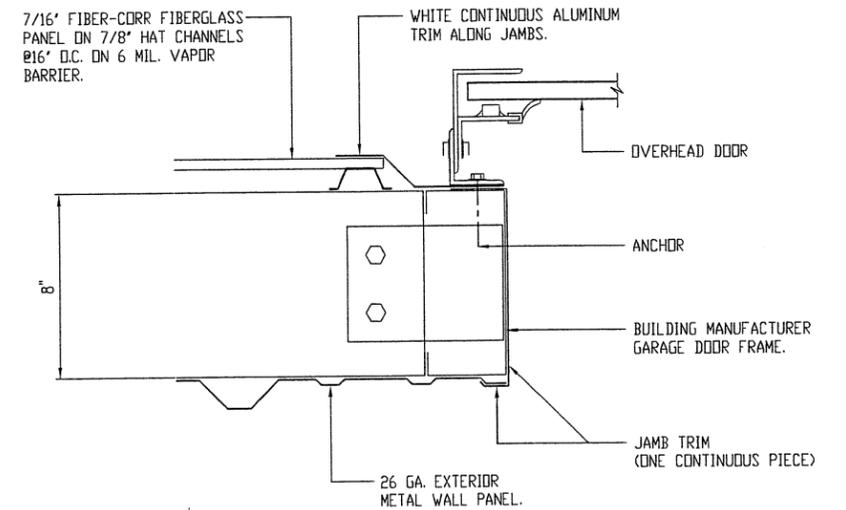
DOOR HEADER/JAMB TYPE H

1-1/2' = 1'-0"



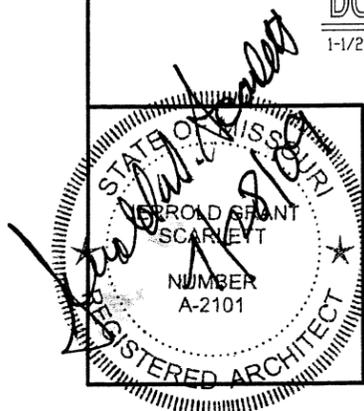
GARAGE DOOR JAMB TYPE I

1-1/2' = 1'-0"



GARAGE DOOR JAMB TYPE J

1-1/2' = 1'-0"

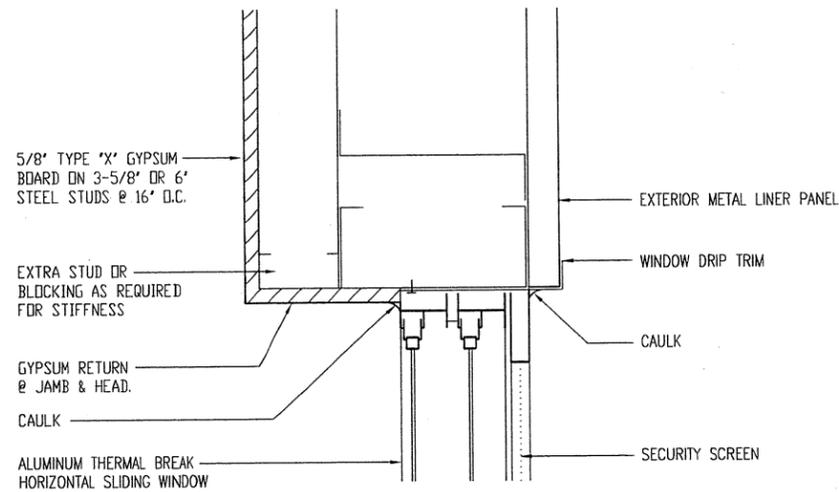


DISTRICT 4 - 650 MULBERRY
MAINTENANCE BUILDING

MISSOURI DEPARTMENT
OF TRANSPORTATION
GENERAL SERVICES
FACILITIES MANAGEMENT

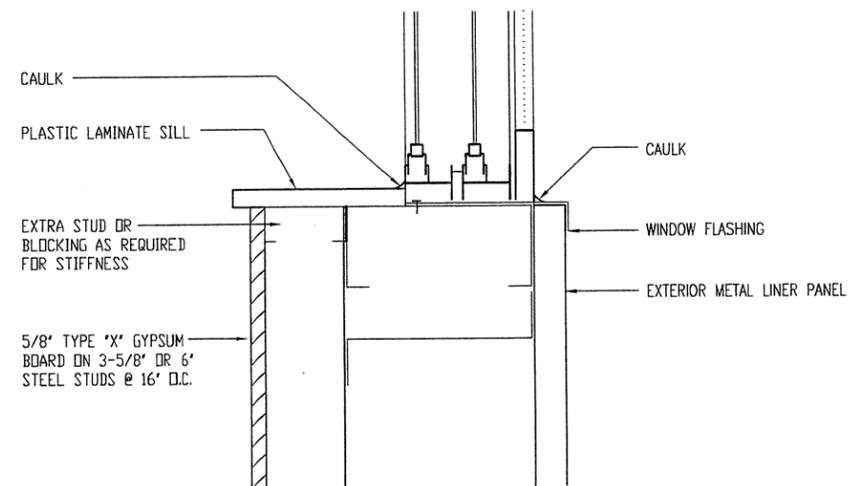
HEAD/JAMB DETAILS

DESIGN BY: DOUG RECORD
DRAWN BY: LARRY CARVER
DATE: 5-29-09
CHECK BY: JERROLD SCARLETT
SHEET 20 of 38



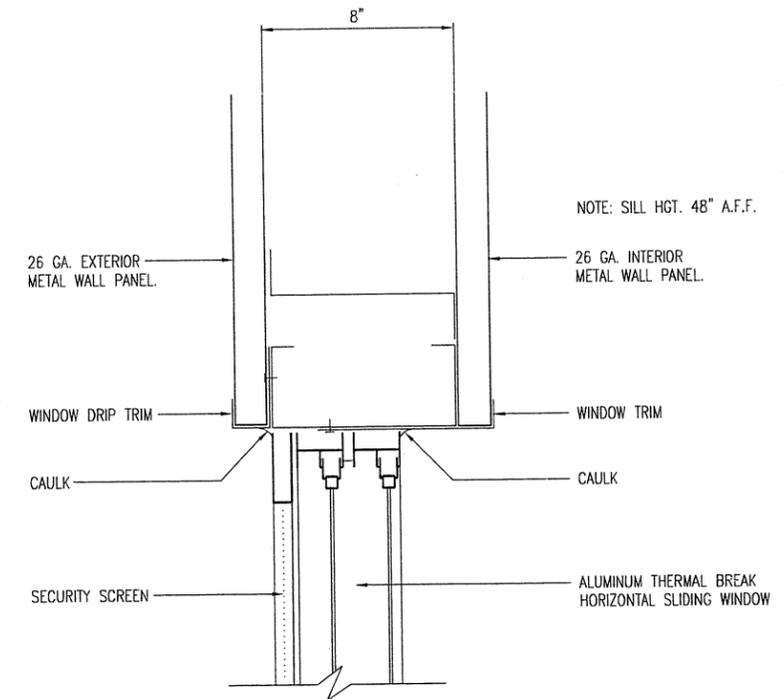
(AT OFFICE AREA)
WINDOW HEAD/JAMB

1-1/2" = 1'-0"



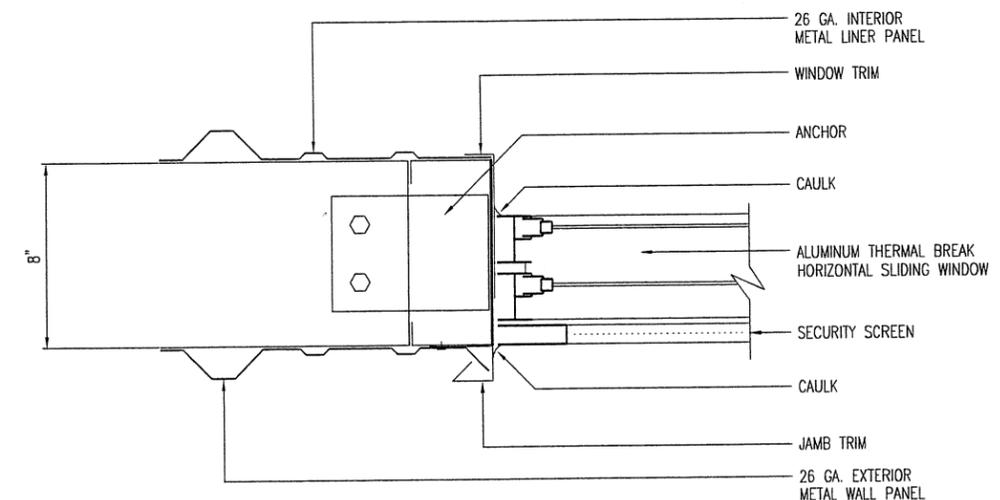
(AT OFFICE AREA)
WINDOW SILL

1-1/2" = 1'-0"



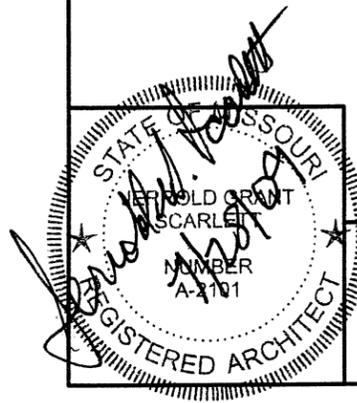
(AT SHOP AREA)
WINDOW HEAD

1-1/2" = 1'-0"



(AT SHOP AREA)
WINDOW JAMB

1-1/2" = 1'-0"

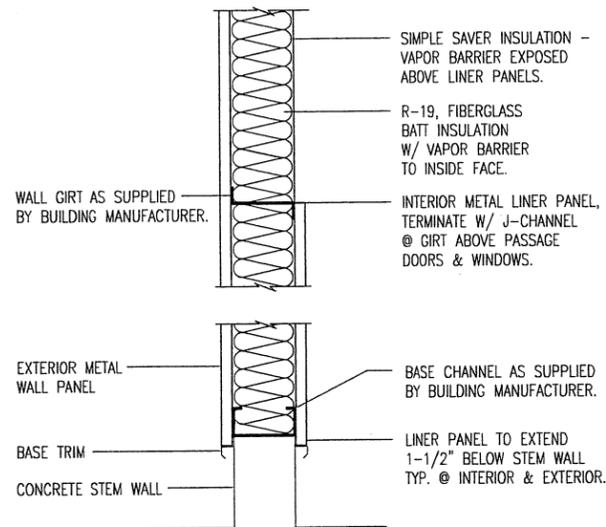


DISTRICT 4 - 650 MULBERRY
MAINTENANCE BUILDING

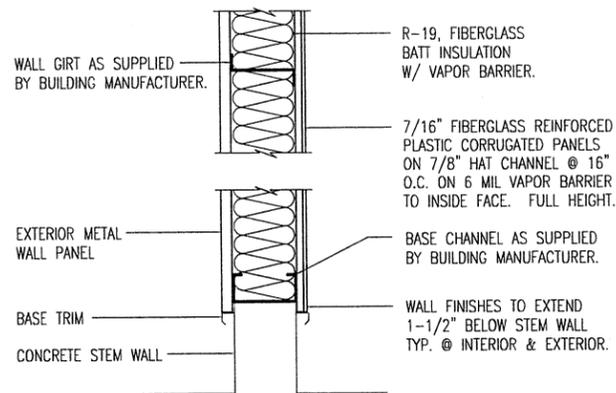
MISSOURI DEPARTMENT
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GENERAL SERVICES
FACILITIES MANAGEMENT

HEAD/JAMB DETAILS

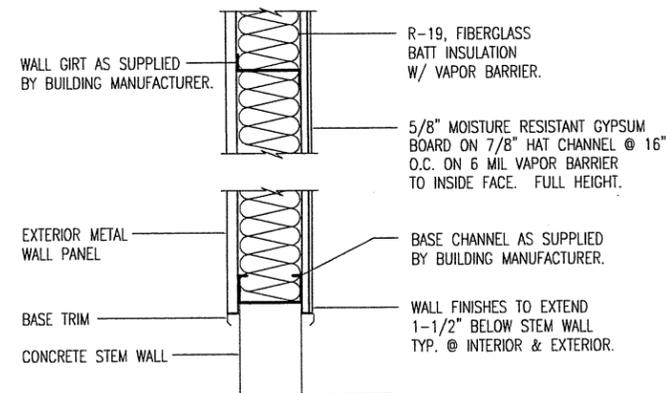
DESIGN BY: DOUG RECORD
DRAWN BY: LARRY CARVER
DATE: 5-29-09
CHECK BY: JERROLD SCARLETT
SHEET 21 of 38



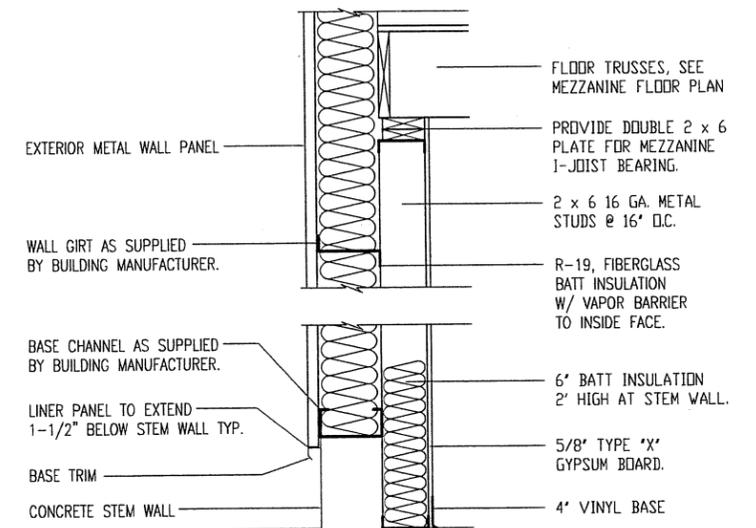
A EXTERIOR WALL SECTION
 22 SCALE 1/2" = 1'-0"



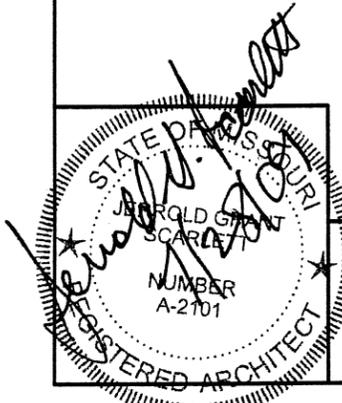
B EXTERIOR WALL SECTION
 22 SCALE 1/2" = 1'-0"



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



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

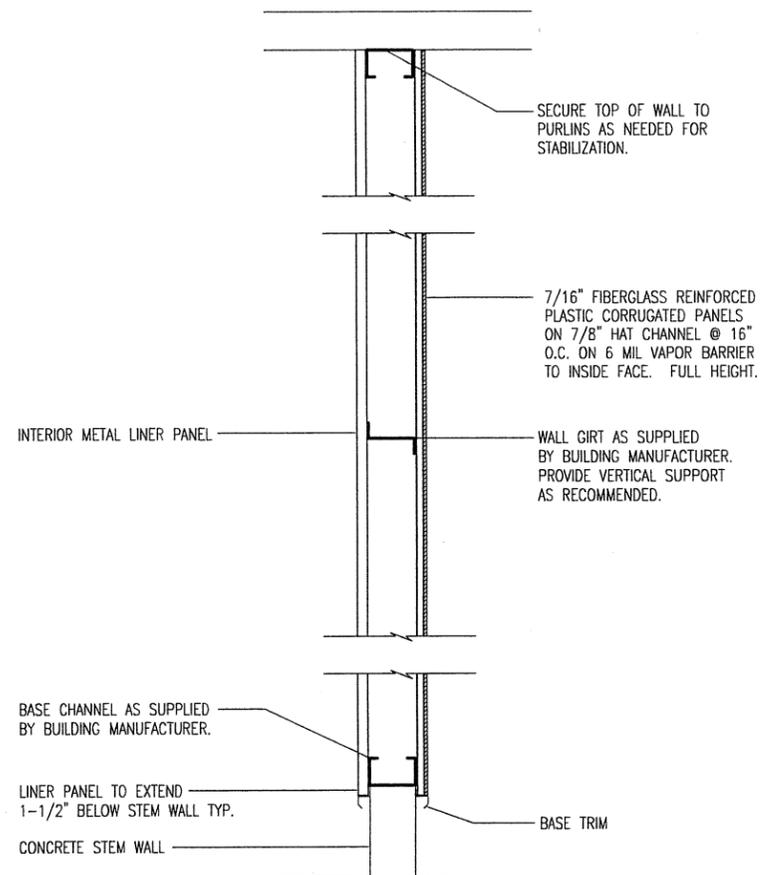


DISTRICT 4 - 650 MULBERRY
 MAINTENANCE BUILDING

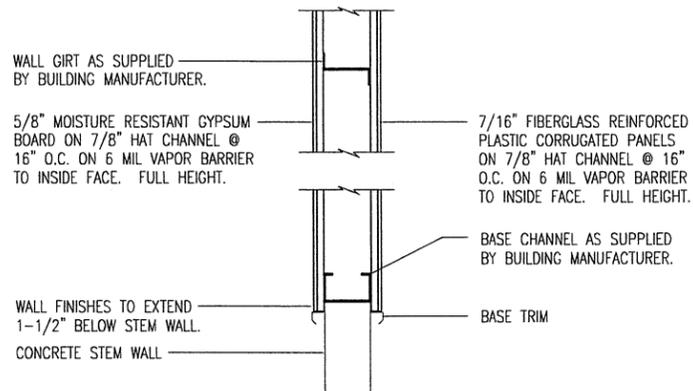
MISSOURI DEPARTMENT
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WALL SECTIONS

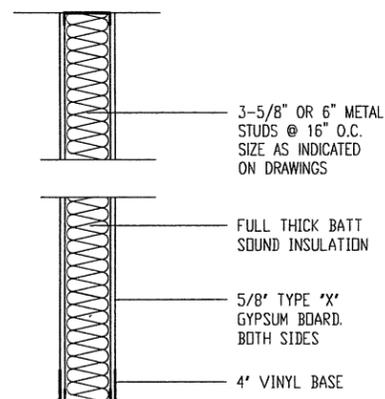
DESIGN BY: DOUG RECORD
 DRAWN BY: LARRY CARVER
 DATE: 5-29-09
 CHECK BY: JERROLD SCARLETT
 SHEET 22 of 38



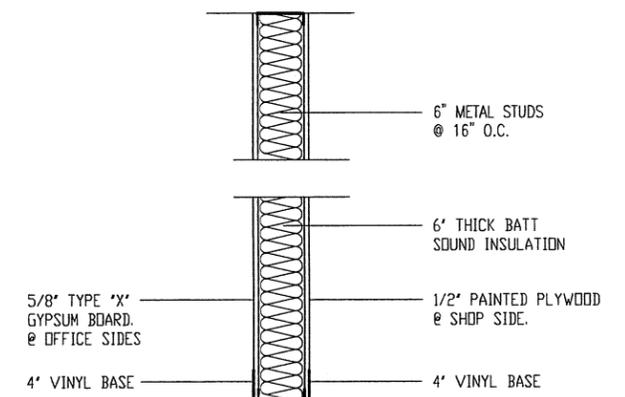
A INTERIOR WALL SECTION
23 SCALE 1/2" = 1'-0"



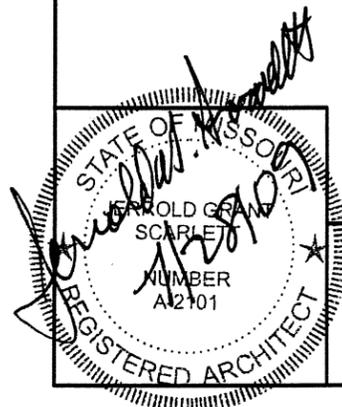
B INTERIOR WALL SECTION
23 SCALE 1/2" = 1'-0"



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



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

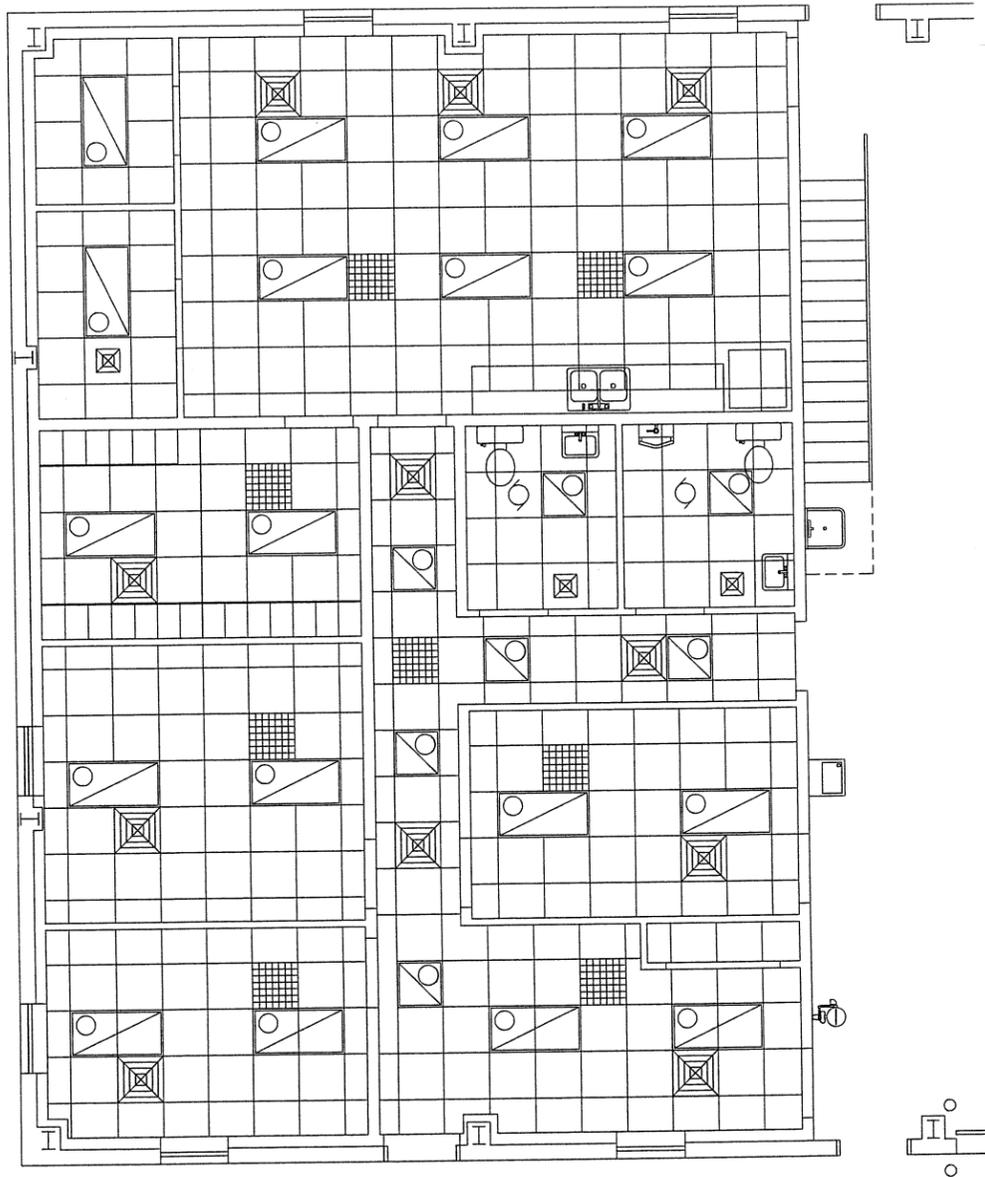


DISTRICT 4 - 650 MULBERRY
MAINTENANCE BUILDING

MISSOURI DEPARTMENT
OF TRANSPORTATION
GENERAL SERVICES
FACILITIES MANAGEMENT

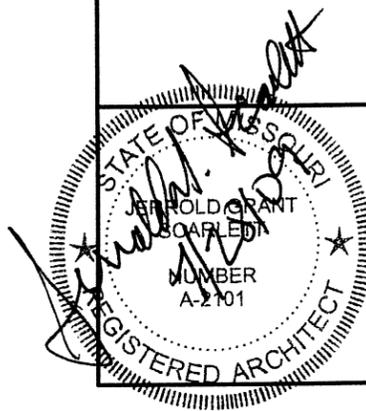
WALL SECTIONS

DESIGN BY: DOUG RECORD
DRAWN BY: LARRY CARVER
DATE: 5-29-09
CHECK BY: JERROLD SCARLETT
SHEET 23 of 38



REFLECTED CEILING PLAN

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

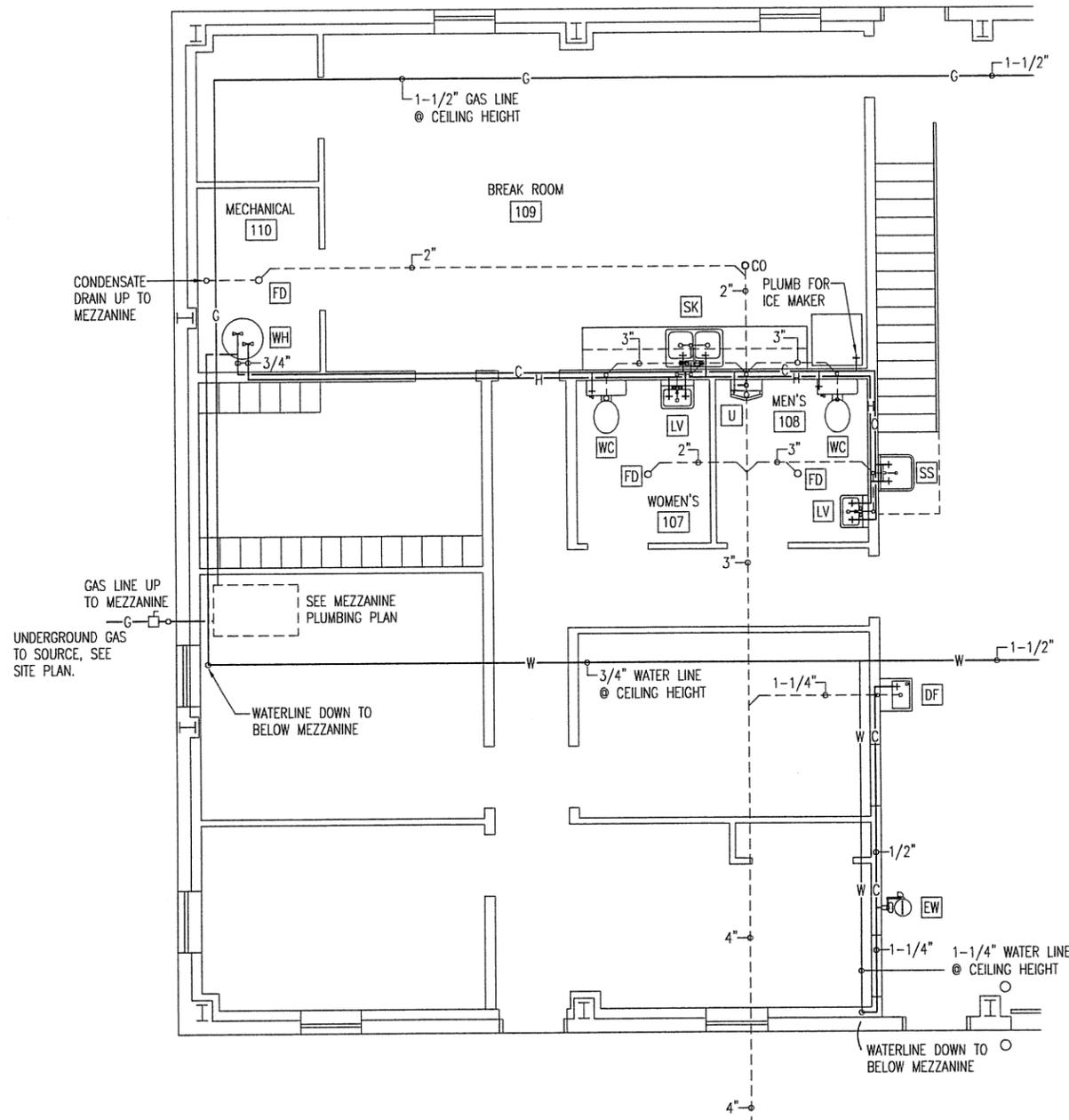


DISTRICT 4 - 650 MULBERRY
MAINTENANCE BUILDING

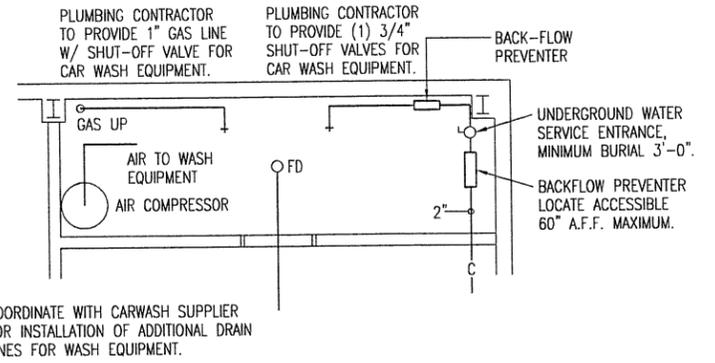
MISSOURI DEPARTMENT
OF TRANSPORTATION
GENERAL SERVICES
FACILITIES MANAGEMENT

REFLECTED CEILING PLAN

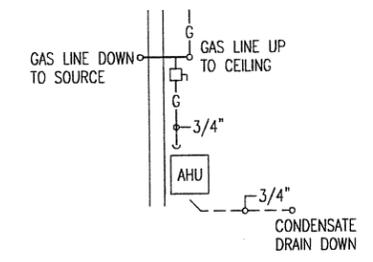
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DRAWN BY: LARRY CARVER
DATE: 5-29-09
CHECK BY: JERROLD SCARLETT
SHEET 24 of 38



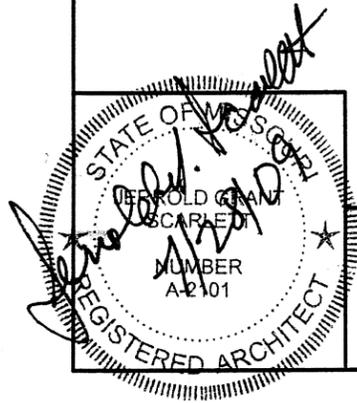
OFFICE PLUMBING PLAN
SCALE: 1/8" = 1'-0"



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



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



DISTRICT 4 - 650 MULBERRY
MAINTENANCE BUILDING

MISSOURI DEPARTMENT
OF TRANSPORTATION
GENERAL SERVICES
FACILITIES MANAGEMENT

OFFICE PLUMBING PLAN

DESIGN BY: DOUG RECORD
DRAWN BY: LARRY CARVER
DATE: 6-5-09
CHECK BY: JERROLD SCARLETT
SHEET 26 OF 38

PLUMBING FIXTURE SCHEDULE

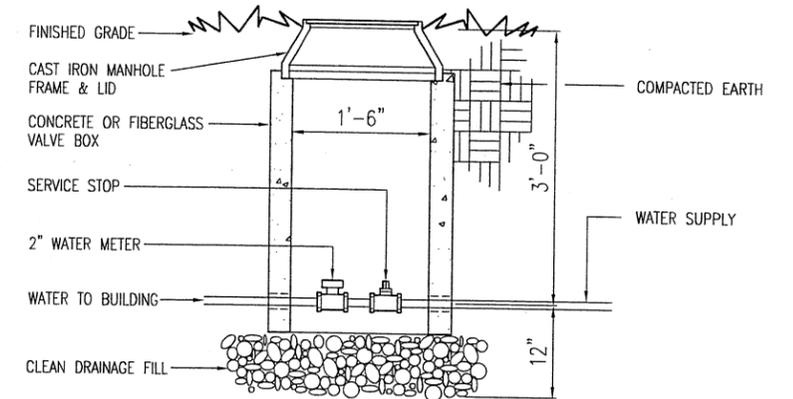
SYM.	FIXTURE	PIPE CONNECTION				REMARKS
		CW	HW	S&W	VENT	
WC	WATER CLOSET	1/2"		3"	3"	EQUAL TO AMERICAN STANDARD #2216.143, FLOOR MOUNT, CADET II, ELONGATED TOILET W/ #5311.012 CLOSED FRONT ELONGATED SEAT.
U	URINAL	3/4"		1-1/2"	1-1/2"	EQUAL TO AMERICAN STANDARD #6601.021 "LYNBROOK" I.O URINAL WITH SLDAN ROYAL 180-1 FLUSH VALVE.
LV	LAVATORY	1/2"	1/2"	1-1/4"	1-1/4"	EQUAL TO AMERICAN STANDARD #4867.024, 20" x 18" ENAMELED CAST IRON "REGALYN" WALL MOUNT LAVATORY W/ 4" CENTERSET SYMMONS S-90-2-G-FR-W SINGLE LEVER LAVATORY FAUCET.
SK	SINK	1/2"	1/2"	1-1/4"	1-1/4"	EQUAL TO AMERICAN STANDARD #7144.804 DOUBLE BOWL SINK, WITH STANDARD 4 HOLE PATTERN, AND ELKAY MODEL LK-4301-F CHROME FAUCET SPOUT, SWIVEL AERATOR, AND SPRAY.
SS	SERVICE SINK	1/2"	1/2"	3"	2"	EQUAL TO AMERICAN STANDARD #7692.049, 22" x 18" ENAMELED, CAST IRON "LAKEWELL" SERVICE SINK W/ 8340.242 HERITAGE LEVER HANDLE FAUCET, AND 7798.176 P-TRAP.
DF	WATER COOLER	1/2"		1-1/4"		EQUAL TO ELKAY MODEL EBFA-4 SINGLE LEVEL WHEELCHAIR ACCESSIBLE WATER COOLER, WITH ONE-PIECE STAINLESS STEEL INTEGRAL DRAIN GRID BASIN.
EW	EMERGENCY EYE WASH	1-1/4"				EQUAL TO BRADLEY MODEL S19-310 BARRIER FREE, DRENCH SHOWER/EYE WASH UNIT.
WH	WATER HEATER	3/4"	3/4"			EQUAL TO A.O. SMITH #PEC-30 "CONSERVATIONIST" WITH (2) 4500 WATT, 240 V ELEMENTS, 30 GALLON ELECTRIC WATER HEATER WITH PRESSURE RELIEF VALVE.
HB-1	HOSE BIBB	3/4"				EXTERIOR - EQUAL TO WOODFORD MODEL 67 FREEZELESS WALL HYDRANT W/ 3/4" H.P.T. OUTLET, INTREGAL VACUUM BREAKER-BACK FLOW PREVENTER.
HB-2	HOSE BIBB	3/4"				INTERIOR - EQUAL TO WOODFORD MODEL 26 WALL FAUCET W/ 3/4" H.P.T. OUTLET, INTREGAL VACUUM BREAKER-BACKFLOW PREVENTER.
YH	YARD HYDRANT	2"				EXTERIOR - EQUAL TO WOODFORD MODEL MK 720 - WHEEL HANDLE HYDRANT W/ 2" FPT INLET, 2" FPT GALVANIZED TEE OUTLET, INTREGAL VACUUM BREAKER-BACKFLOW PREVENTER.
FD	FLOOR DRAIN			2"		CAST IRON FLOOR DRAIN WITH P-TRAP, AND ADJUSTABLE 5" DIA. NICKLE-BRONZE STRAINER; CONFORMING TO FEDERAL SPECIFICATION WW-P-541B.
TD	TRENCH DRAIN			4"		EQUAL TO ACO K 100S CHANNEL SLOPE TRENCH DRAIN SYSTEM WITH "QUICK LOCK" IRON GRATE (CLASS "C").
CB	CATCH BASIN			4"		EQUAL TO ACO MODEL 900K - CATCH BASIN, WITH GALVANIZED TRASH BUCKET AND #460 QUICKLOCK CAST IRON GRATE.
OS	OIL SEPARATOR			4"		EQUAL TO CHAMPION PRECAST INC. 1,200 GALLON OIL AND GREASE INTERCEPTOR STOCK NO. 190-00117-0/HD 190-00118-0.
HR	HOSE REEL					EQUAL TO REELCRAFT 5650 OLP, OPEN MODEL, LOW PRESSURE HOSE REEL FOR COMPRESSED AIR OR WATER.
CO	CLEAN OUT					PVC-DWV W/ ADAPTER AND CAP EQUAL TO PIPE SIZE SHOWN.
AC	AIR COMPRESSOR					EQUAL TO CHAMPION MODEL HR 7-12 W/ AFTER COOLER AND COMPRESSED AIR DRYER MODEL 18 CCD. SINGLE-PHASE.

PLUMBING NOTES

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

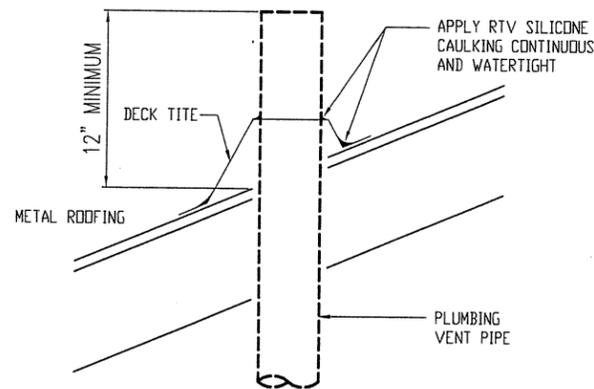
LEGEND

HOT WATER	—	HW
COLD WATER	—	CW
GAS	—	G
SANITARY SEWER	- - -	S
STORM SEWER	- - -	SS
COMPRESSED AIR	—	CA
CLEANOUT	—	C.O.
FLOOR DRAIN	○	F.D.
HOSE BIBB	□	HB
BALL VALVE	●	
GAS VALVE	■	
BACKFLOW PREVENTER	⚡	



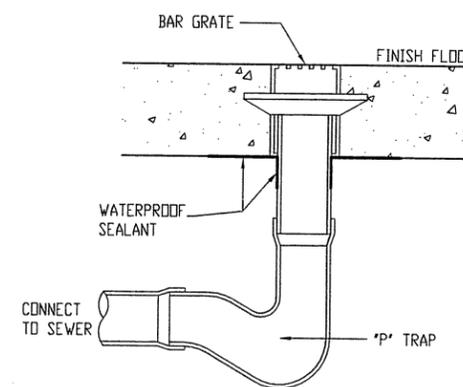
WATER VALVE & DRAIN

NOT TO SCALE



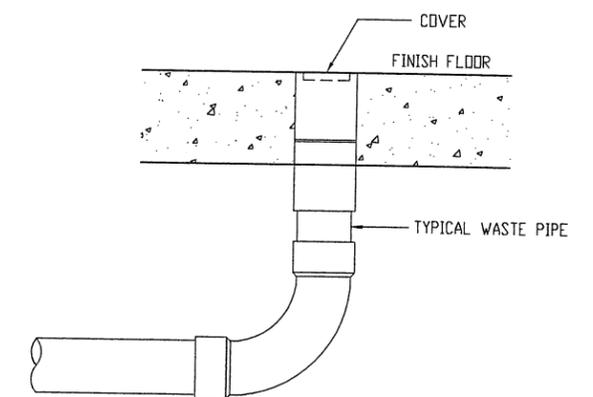
VENT THROUGH ROOF DETAIL

NOT TO SCALE



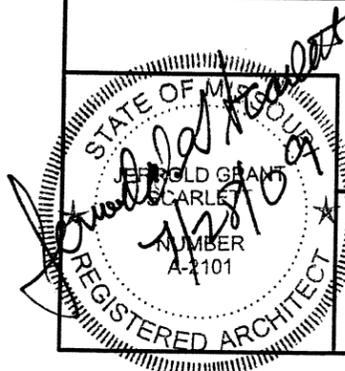
FLOOR DRAIN DETAIL

NOT TO SCALE



FLOOR CLEANOUT DETAIL

NOT TO SCALE

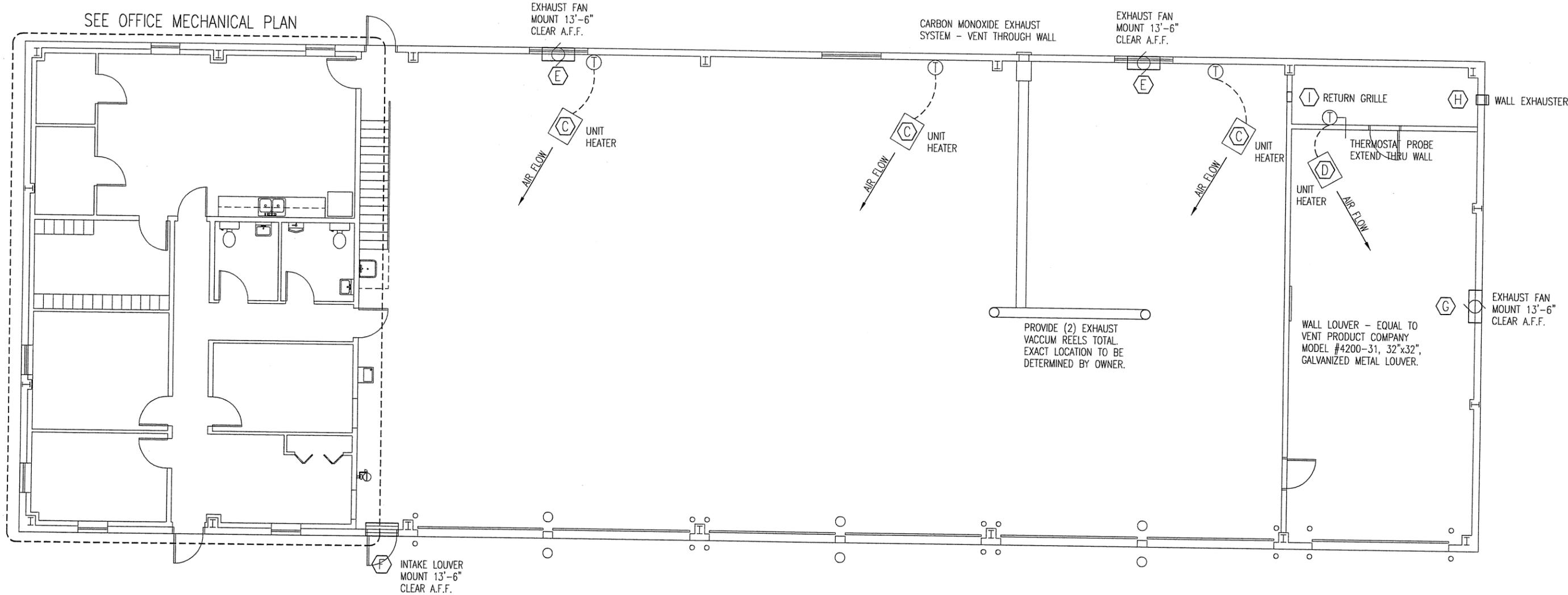


**DISTRICT 4 - 650 MULBERRY
MAINTENANCE BUILDING**

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

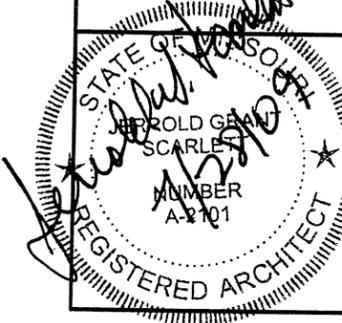
PLUMBING NOTES & SCHEDULES

DESIGN BY: DOUG RECORD
DRAWN BY: LARRY CARVER
DATE: 5-29-09
CHECK BY: JERROLD SCARLETT
SHEET
27 of 38



MECHANICAL PLAN

SCALE: 3/32" = 1'-0"

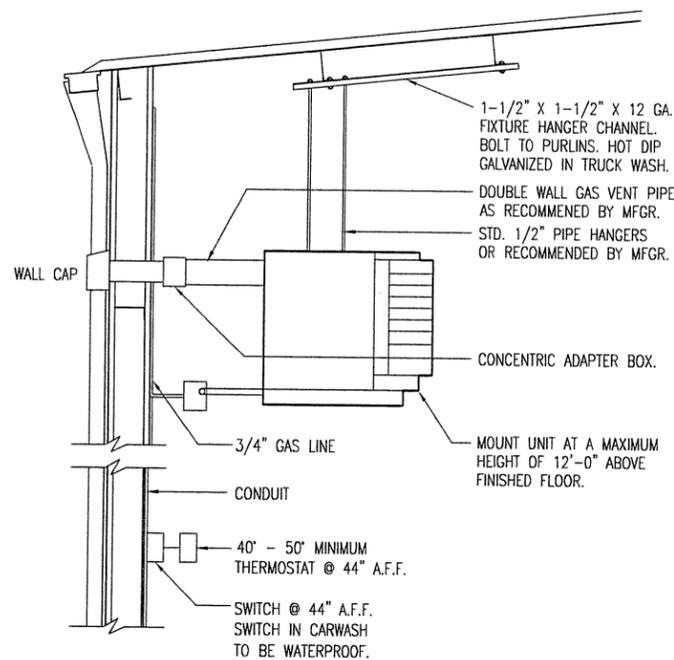


DISTRICT 4 - 650 MULBERRY
MAINTENANCE BUILDING

MISSOURI DEPARTMENT
OF TRANSPORTATION
GENERAL SERVICES
FACILITIES MANAGEMENT

MECHANICAL PLAN

DESIGN BY: DOUG RECORD
DRAWN BY: LARRY CARVER
DATE: 5-29-09
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UNIT HEATER INSTALLATION

NOT TO SCALE

MECHANICAL SYMBOLS

-  SD 175 CFM 24' x 24' SUPPLY DIFFUSER AND CFM
-  CEILING RETURN AIR GRILLE
-  THERMOSTAT - MOUNT @ 46' A.F.F.
-  ROUND - DIMENSION SHOWN IS ID

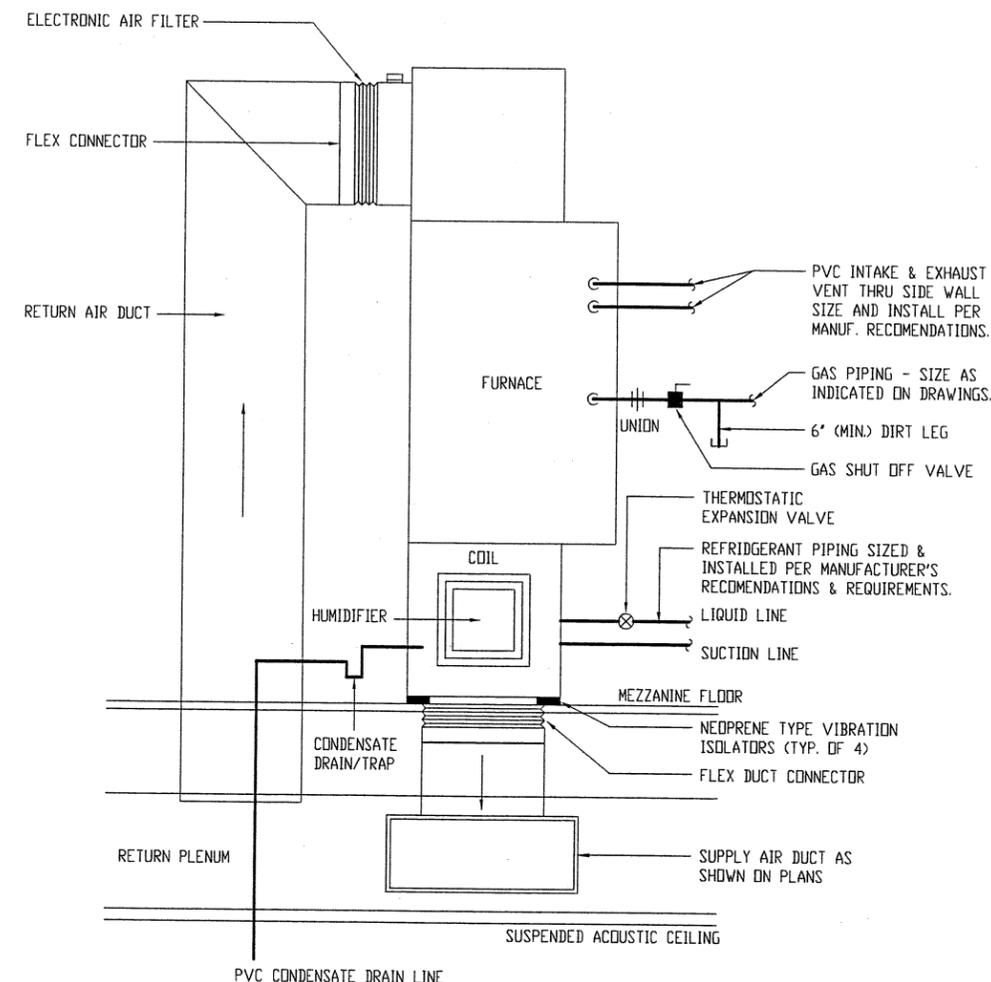
MECHANICAL NOTES

- DRAWINGS AND DIAGRAMS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
- MECHANICAL WORK SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE IBC MECHANICAL CODE.
- PROVIDE EQUIPMENT AND APPURTENANCES NOT NECESSARILY SHOWN OR SPECIFIED BUT NEEDED FOR COMPLETE AND PROPER INSTALLATION.
- ALL EQUIPMENT AND MATERIALS, IN PARTICULAR VALVES, FILTERS, MOTORS, AND CONTROLS SHALL BE ARRANGED TO PROVIDE PROPER CLEARANCE FOR SERVICE, MAINTENANCE, AND INSPECTION.
- MECHANICAL SUBCONTRACTOR SHALL FULLY COORDINATE ALL WORK WITH PLUMBING AND ELECTRICAL WORKERS PRIOR TO COMMENCING OF THE MECHANICAL INSTALLATION.
- SEE REFLECTED CEILING PLAN FOR EXACT DIFFUSER LOCATIONS.
- PROVIDE BLOCKING TO HVAC DEVICES AS REQUIRED FOR A SECURE APPLICATION.
- THERMOSTAT CONTROL FOR 113 TRUCK WASH TO BE LOCATED IN 114 WASH EQUIPMENT ROOM WITH PROBE LOCATED AS SHOWN.

HVAC SCHEDULE

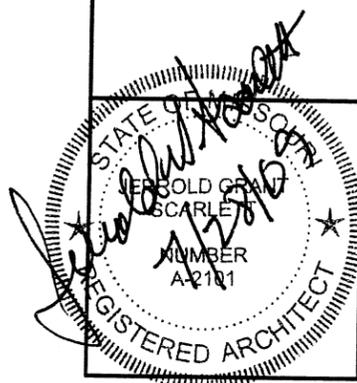
SYM.	MANUF.	MODEL	OUTPUT	FUEL	VOLTAGE	REMARKS
A	CARRIER	58MCB120-20	120,000 BTU	PROPANE OR NATURAL GAS	115	90+ AFUE, 2000 CFM DOWN FLOW GAS FURNACE W/ 3" CONCENTRIC VENT TERMINATION KIT, HUMIDIFIER, AND ELECTRONIC AIR CLEANER.
B	CARRIER	CNPHP6024ACA 24ACA360	60,000 BTU	ELECTRIC	115 208	EVAPORATOR COIL 5 TON, 13 SEER, 1-PHASE CONDENSING UNIT.
C	REZNOR	UDAP-75	60,000 BTU	PROPANE OR NATURAL GAS	115	GAS FIRED UNIT HEATER, WITH SPARK IGNITION, TIMED LOCK-OUT, AND REZNOR CL-1 STANDARD HEATING ONLY THERMOSTAT.
D	REZNOR	UDAS-75	60,000 BTU	PROPANE OR NATURAL GAS	115	GAS FIRED UNIT HEATER, WITH SPARK IGNITION, SEPARATED COMBUSTION, TIMED LOCK-OUT, AND REZNOR CL-1 HEATING ONLY THERMOSTAT.
E	DAYTON	4C269	3185/2850 CFM	ELECTRIC	115	24" DIA. SHUTTER-MOUNTED EXHAUST FAN W/ 1/4 HP, 1-PH MOTOR, TWO SPEED WALL SWITCH NO. 2X605, & WEATHER HOOD NO. 4YD06.
F	DAYTON	3C728		ELECTRIC	115	30" MEDIUM GRADE, MOTORIZED, GALVANIZED STEEL DAMPER W/ 1-PH MOTOR. WIRE TO OPEN WHEN EXHAUST FAN IS TURNED ON.
G	DAYTON	5C531	1,950 CFM	ELECTRIC	115	16" DIA. CORROSION RESISTANT FIBERGLASS SHUTTER EXHAUST FAN W/ 1-PH TOTALLY ENCLOSED MOTOR. FOR WET LOCATION.
H	DAYTON	5C529	524 CFM	ELECTRIC	115	10" DIA. CORROSION RESISTANT FIBERGLASS SHUTTER EXHAUST FAN W/ TOTALLY ENCLOSED MOTOR. FOR WET LOCATION.
I	HART & COOLEY	672 OR 673				1/2" SPACED FINS, RETURN GRILLE & STANDARD 1" THICK FILTER W/ DOVER WHITE GRILLE.
J	CARRIER	TSTAT CCPAC01-B				7 DAY PROGRAMMABLE THERMOSTAT.

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

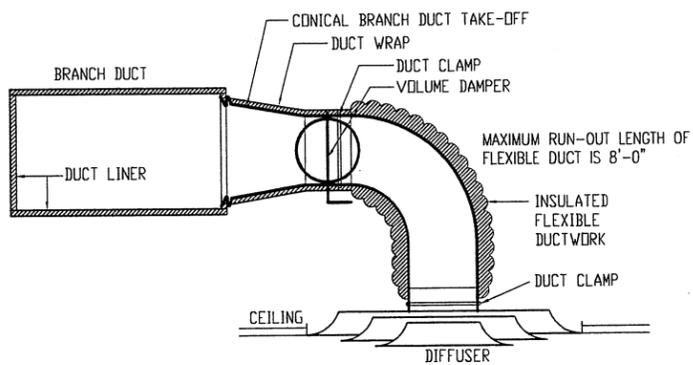


DISTRICT 4 - 650 MULBERRY
MAINTENANCE BUILDING

MISSOURI DEPARTMENT
OF TRANSPORTATION
GENERAL SERVICES
FACILITIES MANAGEMENT

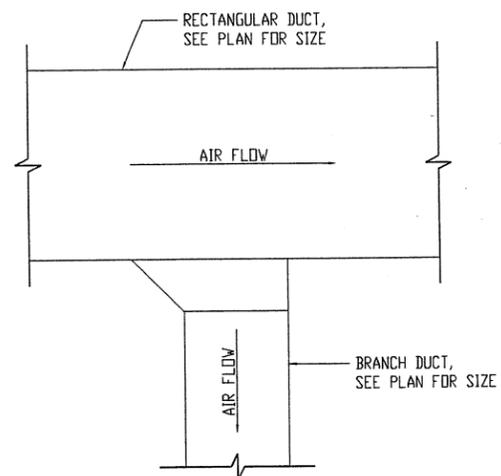
MECHANICAL NOTES & SCHEDULES

DESIGN BY: DOUG RECORD
DRAWN BY: LARRY CARVER
DATE: 5-29-09
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SHEET 30 of 38



LAY-IN DIFFUSER MOUNTING

NOT TO SCALE

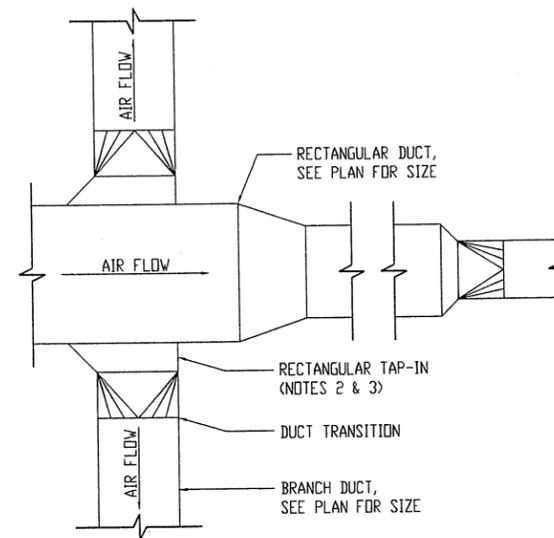


NOTES:

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

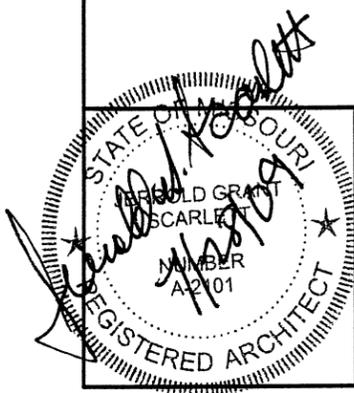


NOTES:

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

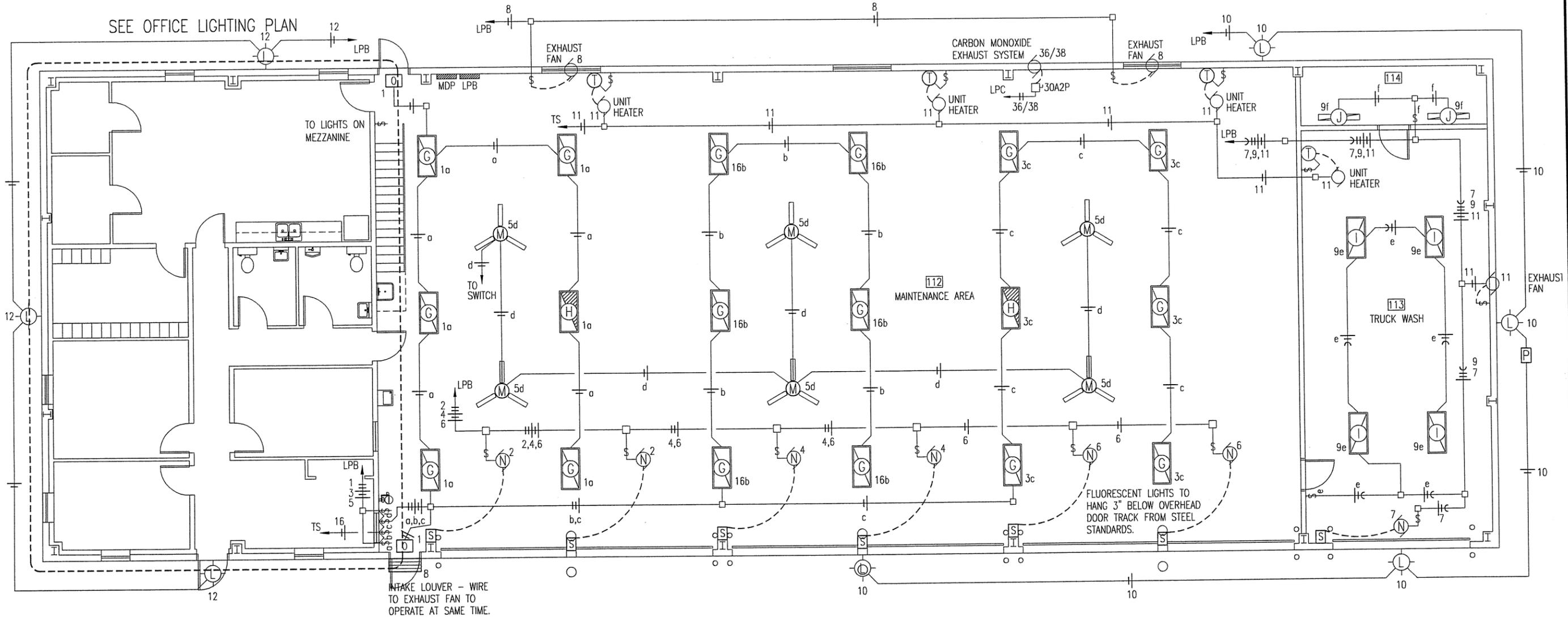


DISTRICT 4 - 650 MULBERRY
MAINTENANCE BUILDING

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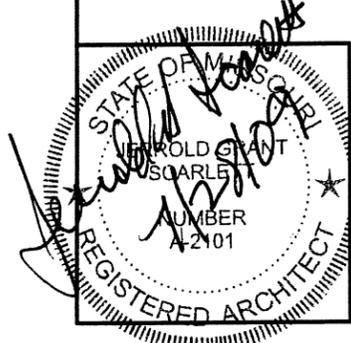
MECHANICAL DETAILS

DESIGN BY: DOUG RECORD
DRAWN BY: LARRY CARVER
DATE: 5-29-09
CHECK BY: JERROLD SCARLETT
SHEET 31 of 38



ELECTRICAL LIGHTING PLAN

SCALE: 3/32" = 1'-0"

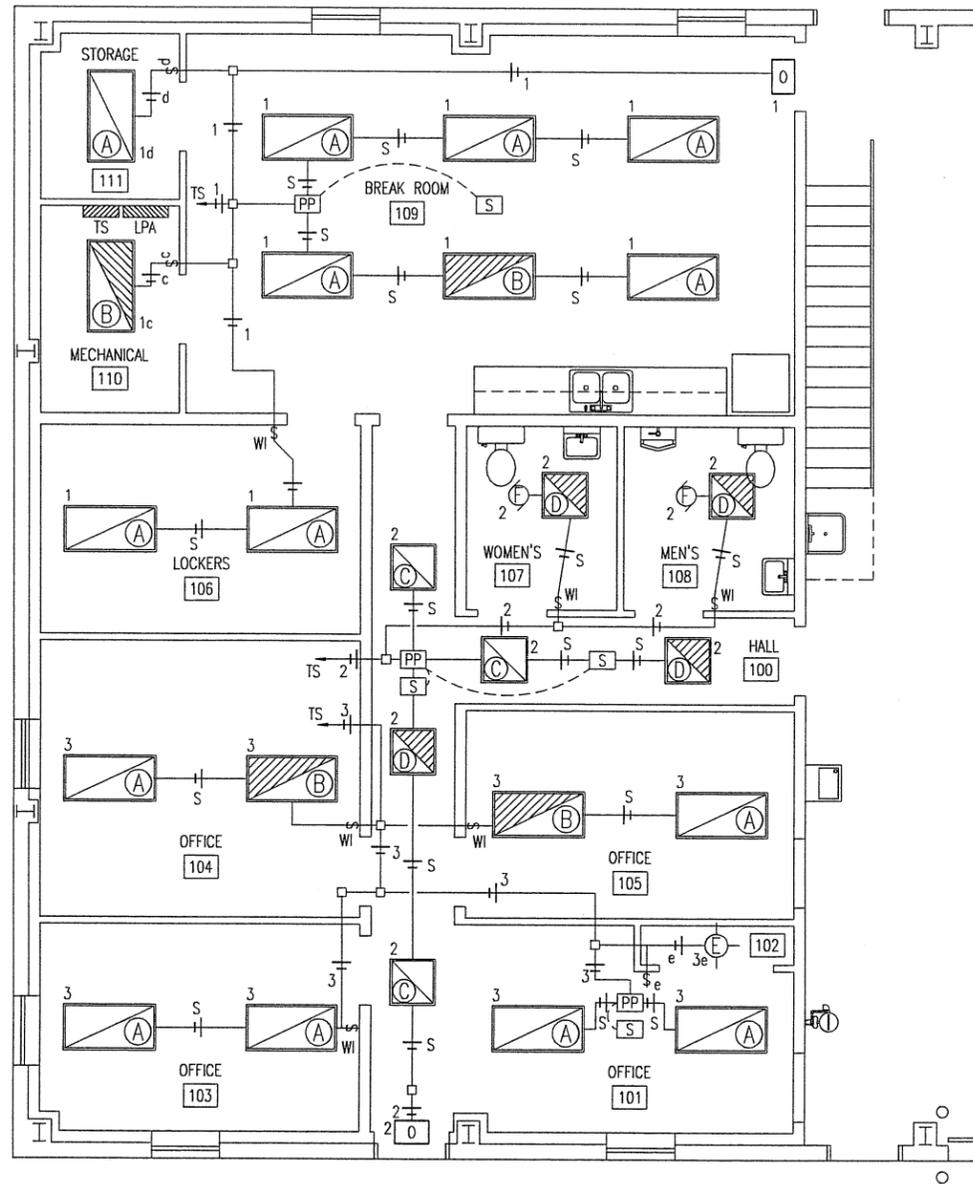


DISTRICT 4 - 650 MULBERRY
MAINTENANCE BUILDING

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ELECTRICAL LIGHTING PLAN

DESIGN BY: DOUG RECORD
DRAWN BY: LARRY CARVER
DATE: 5-29-09
CHECK BY: JERROLD SCARLETT
SHEET



OFFICE LIGHTING PLAN

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

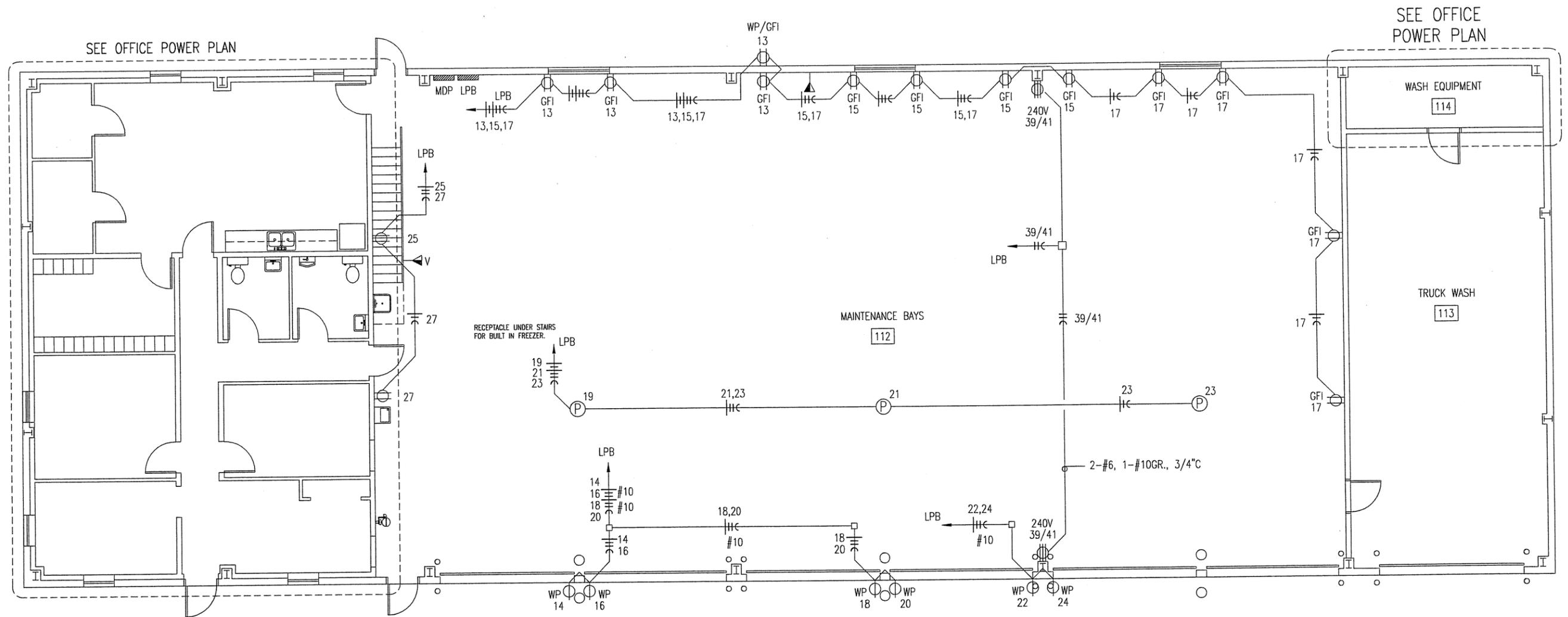


DISTRICT 4 - 650 MULBERRY
MAINTENANCE BUILDING

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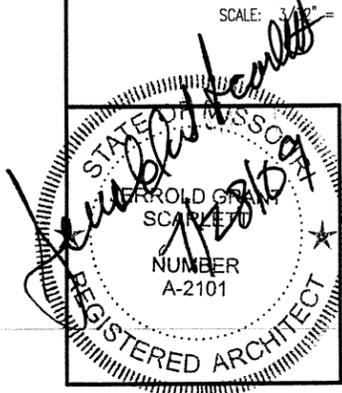
OFFICE LIGHTING PLAN

DESIGN BY: DOUG RECORD
DRAWN BY: LARRY CARVER
DATE: 5-29-09
CHECK BY: JERROLD SCARLETT
SHEET 33 of 38



ELECTRICAL POWER PLAN

SCALE: 3/8" = 1'-0"

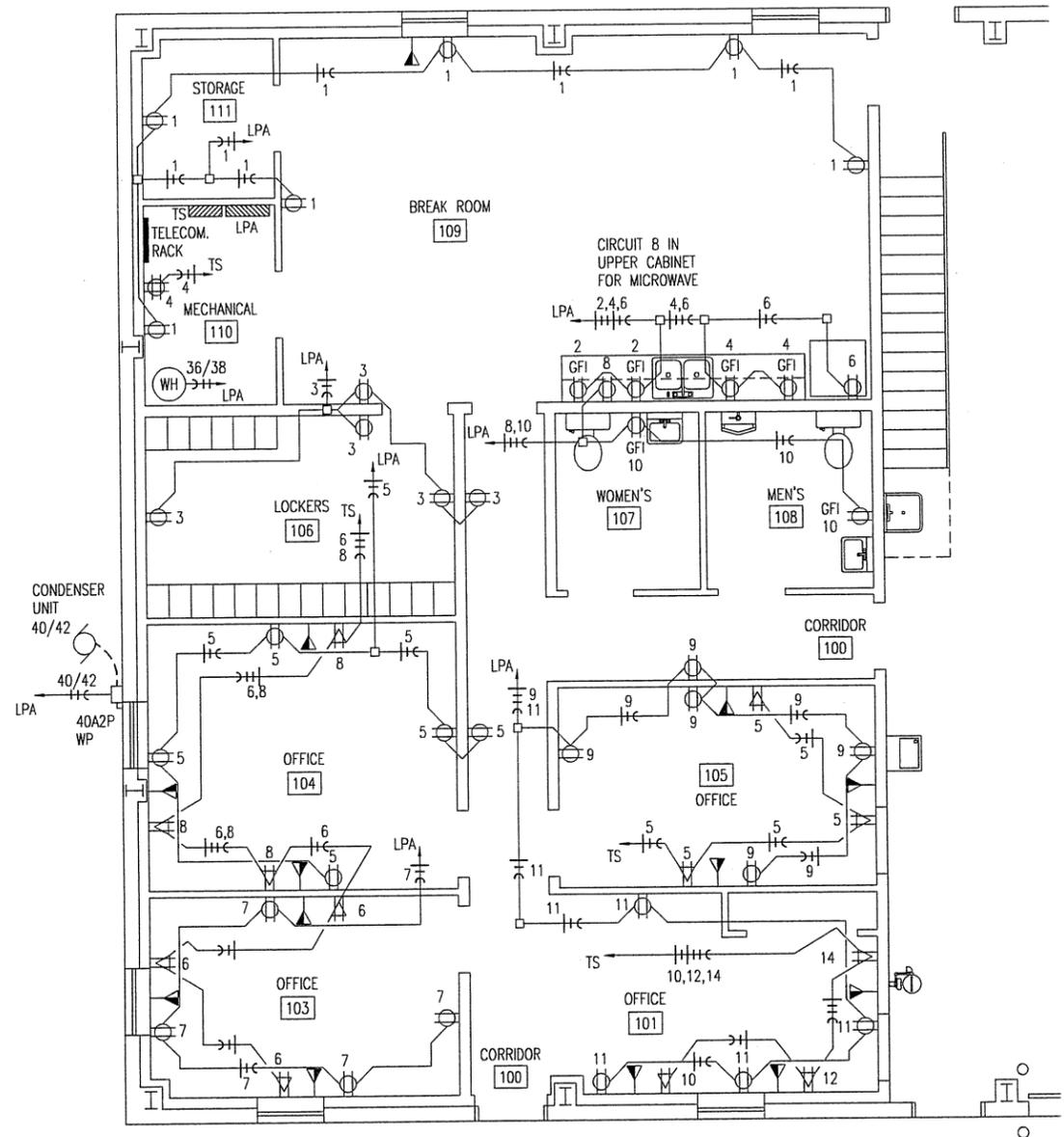


DISTRICT 4 - 650 MULBERRY
MAINTENANCE BUILDING

MISSOURI DEPARTMENT
OF TRANSPORTATION
GENERAL SERVICES
FACILITIES MANAGEMENT

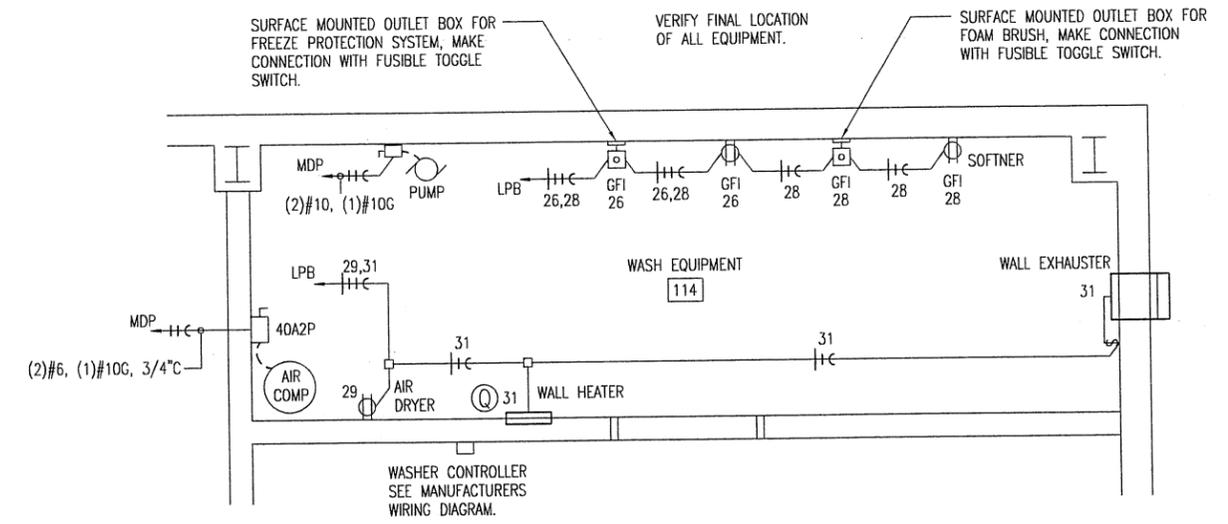
ELECTRICAL POWER PLAN

DESIGN BY: DOUG RECORD
DRAWN BY: LARRY CARVER
DATE: 5-29-09
CHECK BY: JERRALD SCARLETT
SHEET 34 OF 38



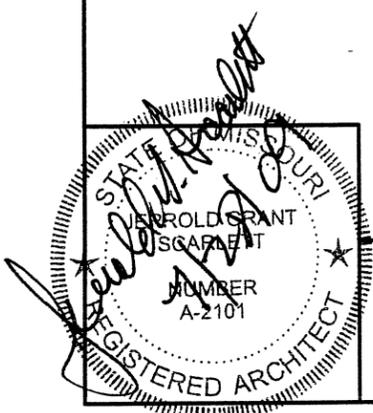
OFFICE POWER PLAN

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



WASH EQUIPMENT POWER PLAN

SCALE: 1/4" = 1'-0"

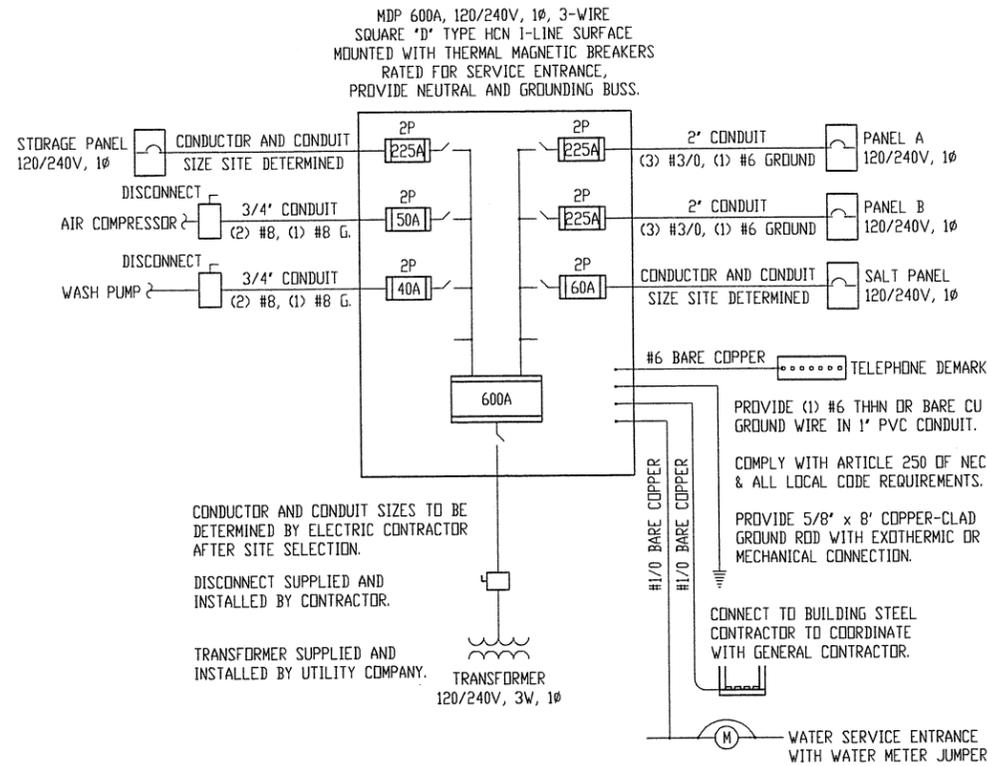


DISTRICT 4 - 650 MULBERRY
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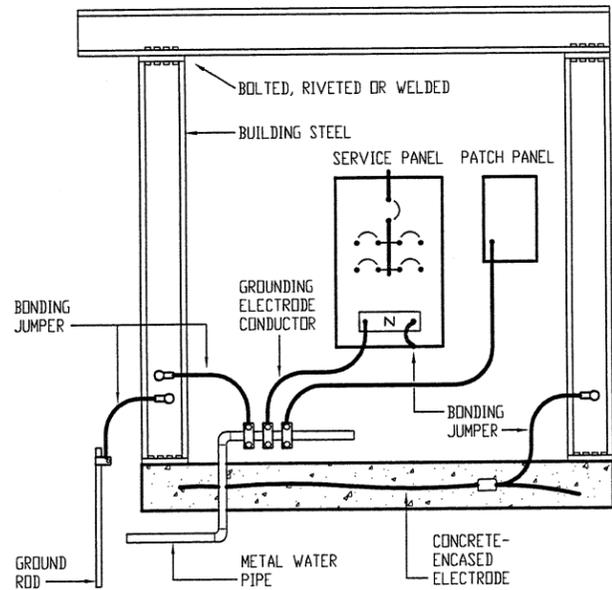
OFFICE POWER PLAN

DESIGN BY: DOUG RECORD
DRAWN BY: LARRY CARVER
DATE: 5-29-09
CHECK BY: JERRALD SCARLETT
SHEET 35 of 38



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 17592 VA B PHASE 17780 VA TOTAL 35372 VA 147 A				
CIR	SERVICE	VA	BKR	BKR	VA	SERVICE	CIR	
1	109, 110, 111 - RECEPTACLES	1080	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		SPARE	14
15	MEZZANINE LIGHTS	828	20A1P	B				16
17	MEZZANINE RECEPTACLES	900	20A1P	A				18
19				B				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 - TRANSFER SWITCH	7500	100A 2P	B	30A2P	2392	EXTERIOR - CONDENSER UNIT	40
41		7500		A		2392		42

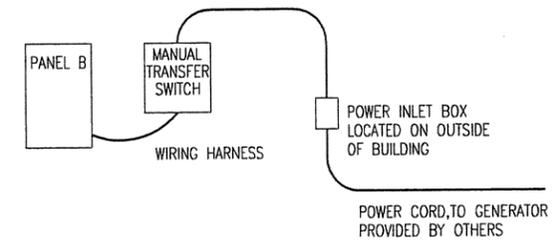
TRANSFER SWITCH

TRANSFER SWITCH EQUAL TO GEN/TRAN MODEL 601210 16 CIRCUIT, 15000 WATT		CONNECTED LOAD A PH. 6509VA B PH. 6172VA TOTAL 12681VA						
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

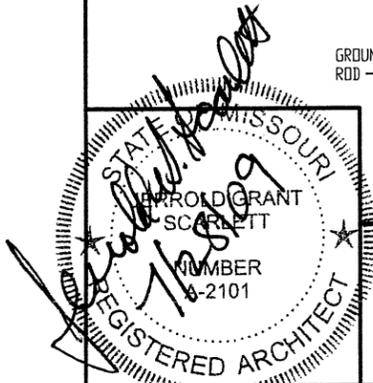
SERVICE PANEL LPB

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 19211 VA B PHASE 18785 VA TOTAL 37996 VA 158 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	20A1P	2162	112 - OHD OPENERS	6
7	113 - OHD OPENER	1081	20A1P	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 - FREEZER	800	20A1P	A	20A1P	360	115 - WASH EQUIPMENT	26
27	112 - DRINKING FOUNTAIN	480	20A1P	B	20A1P	360	115 - WASH EQUIPMENT	28
29	115 - COMPRESSOR DRYER	483	20A1P	A	20A1P		SPARE	30
31	115 - EXHAUSTER, HEATER	1228	20A1P	B	20A1P		SPARE	32
33				A				34
35				B				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

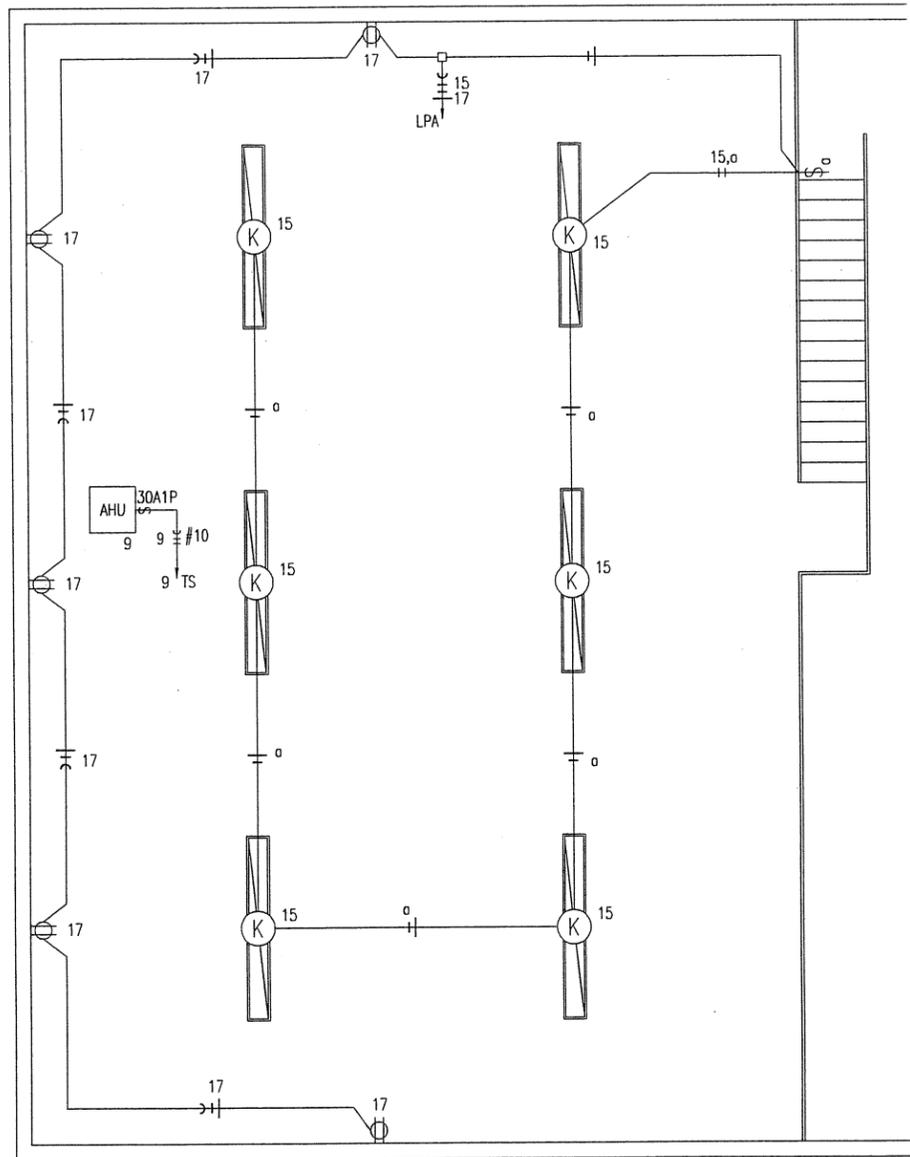


DISTRICT 4 - 650 MULBERRY
MAINTENANCE BUILDING

MISSOURI DEPARTMENT
OF TRANSPORTATION
GENERAL SERVICES
FACILITIES MANAGEMENT

POWER DISTRIBUTION PANELS

DESIGN BY: DOUG RECORD
DRAWN BY: LARRY CARVER
DATE: 5-29-09
CHECK BY: JERROLD SCARLETT
SHEET 36 of 38



MEZZANINE ELECTRICAL PLAN

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

ELECTRIC SCHEDULE					
MANUF.	MODEL	#	LAMPS TYPE W	MNT	REMARKS
WILLIAMS	50G-S24-332-RPC12125-EB3-120	3	FLOURESCENT 32	CLG	24" x 48" STATIC TROFFER FIXTURE, W/ FULL DOOR FRAME, NO REVEAL, WHITE ALUMINUM, & ELECTRONIC BALLAST.
WILLIAMS	50G-S24-332-RPC12125-EM7-EB3-120	3	FLOURESCENT 32	CLG	24" x 48" STATIC TROFFER FIXTURE, W/ FULL DOOR FRAME, NO REVEAL, WHITE ALUMINUM, ELECTRONIC BALLAST, EMERGENCY BATTERY PACK.
WILLIAMS	50G-S22-317-RPC12125-EB3-120	3	FLOURESCENT 17	CLG	24" x 24" STATIC TROFFER FIXTURE, W/ FULL DOOR FRAME, NO REVEAL, WHITE ALUMINUM, & ELECTRONIC BALLAST.
WILLIAMS	50G-S22-417-RPC12125-EM7-EB3-120	4	FLOURESCENT 17	CLG	24" x 24" STATIC TROFFER FIXTURE, W/ FULL DOOR FRAME, NO REVEAL, WHITE ALUMINUM, ELECTRONIC BALLAST, EMERGENCY BATTERY PACK.
LITHONIA	SP9	2	INCANDESCENT 60	CLG	9" ROUND, SURFACE MOUNT, LIGHT FIXTURE W/ GLASS DIFFUSER.
BROAN	"SOLITAIRE"			CLG	150 CFM CEILING MOUNT BATHROOM VENTILATOR.
WILLIAMS	GL-4-454T5H-HUB3/4" EB4-120	4	FLOURESCENT 54	CLG	14" x 48" LOW PROFILE FIXTURE, W/ WHITE ALUMINUM HOUSING, HIGH SPECULAR ALUMINUM REFLECTOR & ELECTRONIC BALLAST.
WILLIAMS	GL-4-454T5H-HUB3/4" EM7-EB4-120	4	FLOURESCENT 54	CLG	14" x 48" FIXTURE, W/ WHITE ALUMINUM HOUSING, HIGH SPECULAR ALUMINUM REFLECTOR ELECTRONIC BALLAST & EMERGENCY BATTERY.
WILLIAMS	GLS-4-454T5H-FCHA118-VBY3-EB4-UNV	4	FLOURESCENT 54	CLG	15" x 48" DAMP LOCATION, CHAIN SUSPENDED FIXTURE, WITH ALUMINUM HOUSING, CLEAR ACRYLIC LENS & ELECTRONIC BALLAST.
LITHONIA	DMW 2 48HO ARDP 120 ES	2	FLOURESCENT 32	WALL	48" LONG SURFACE MOUNT FLOURESCENT LIGHT FIXTURE, W/ PAINTED STEEL HOUSING, & ELECTRONIC BALLAST.
LITHONIA	T2UN 4 32 120 ES (2) WG2UN	4	FLOURESCENT 32	CLG	96" LONG SURFACE MOUNT FLOURESCENT LIGHT FIXTURE, W/ PAINTED STEEL HOUSING, ELECTRONIC BALLAST, & WIRE GUARD.
WILLIAMS	PGM-175H-128-2	1	METAL HALIDE 175	WALL	EXTERIOR, SURFACE MOUNT LIGHT FIXTURE, W/ ALUMINUM HOUSING, & IMPACT RESISTANT DNE-PIECE, WRAP-AROUND LENS.
DAYTON	4C853			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.
REELCRAFT	L 4050 163 3			CLG	SPRING RETRACTABLE, OPEN, ELECTRIC CORD REEL WITH OUTLET PLUG END.
QMARK	CWH-2101			WALL	ELECTRIC UNIT HEATER WITH CWH2S-2 ADAPTER FOR SEMI-RECESSED APPLICATION, LOUVER DIFFUSER, AND BUILT-IN THERMOSTAT.
	OVERHEAD DOOR CONTROL			WALL	THREE BUTTON OVERHEAD DOOR CONTROL AS SUPPLIED BY OVERHEAD DOOR MANUF. SEE SPECIFICATION SECTION 08720.
TORK	2001			WALL	120V PHOTO ELECTRIC CONTROL OF EXTERIOR LIGHTS.

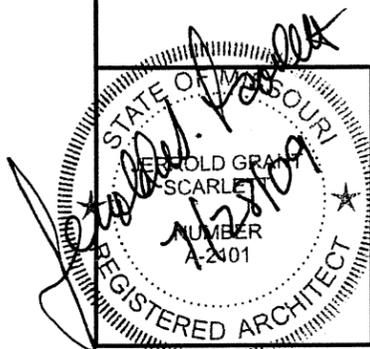
ELECTRICAL FIXTURES AND EQUIPMENT ARE SCHEDULED BY MANUFACTURER AND MODEL NUMBER FOR DESIGN INTENT ONLY, APPROVED EQUALS MAY BE SUBSTITUTED.

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. ELECTRIC CONTRACTOR TO VERIFY SIZES WITH EXACT EQUIPMENT ORDERED PRIOR TO PURCHASING ELECTRICAL SUPPLIES.
- FIXTURE LOCATIONS ARE APPROXIMATE, EXACT LOCATIONS TO BE DETERMINED AFTER COLLABORATION WITH THE OWNER AND OTHER TRADES.
- CONTRACTOR SHALL PROVIDE SERVICE DISCONNECTS AS REQUIRED AT EXTERIOR OF BUILDING.
- PROVIDE BLOCKING FOR ELECTRICAL DEVICES AS REQUIRED FOR A SECURE APPLICATION.

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-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 W/ 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 W/ 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.
- ⊞ V 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



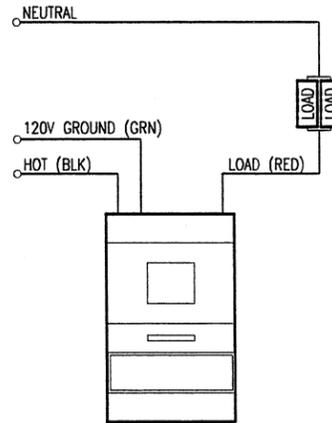
DISTRICT 4 - 650 MULBERRY
MAINTENANCE BUILDING

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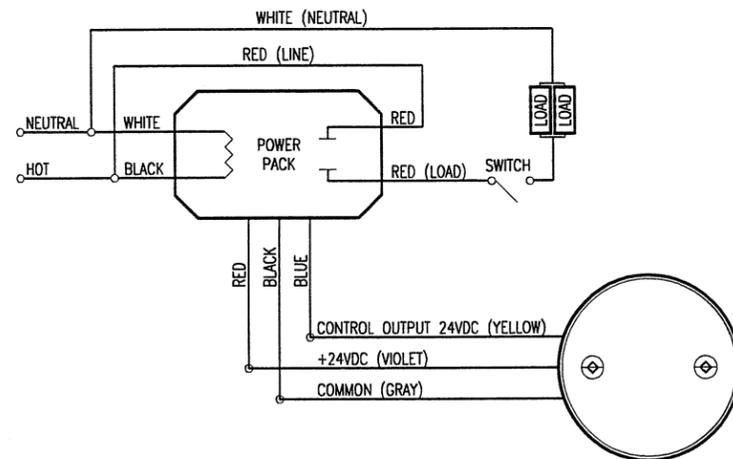
MEZZANINE ELECTRIC
ELECTRICAL NOTES & SCHEDULES

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SHEET 37 OF 38

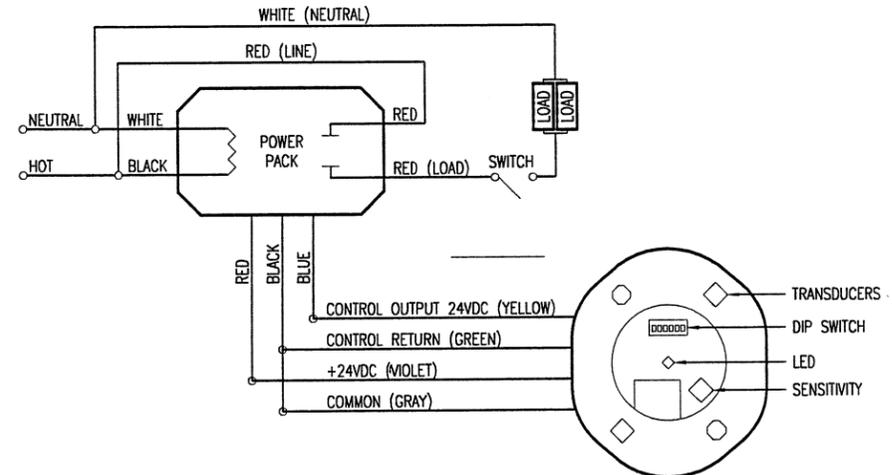
OCCUPANCY SENSOR SCHEDULE		
ROOM	MODEL	MOUNT
100 - HALL	WT-2250	CEILING
101 - OFFICE	WI-200	WALL
103 - OFFICE	WI-200	WALL
104 - OFFICE	WI-200	WALL
105 - OFFICE	WI-200	WALL
106 - LOCKERS	WI-200	WALL
107 - WOMEN'S	WI-200	WALL
108 - MEN'S	WI-200	WALL
109 - BREAK ROOM	UT-300	CEILING
ALL MODELS BASED ON WATT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



WI-200 WIRING



UT-300 WIRING



WT-2250 WIRING



DISTRICT 4 - 650 MULBERRY
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ELECTRIC SENSORS

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