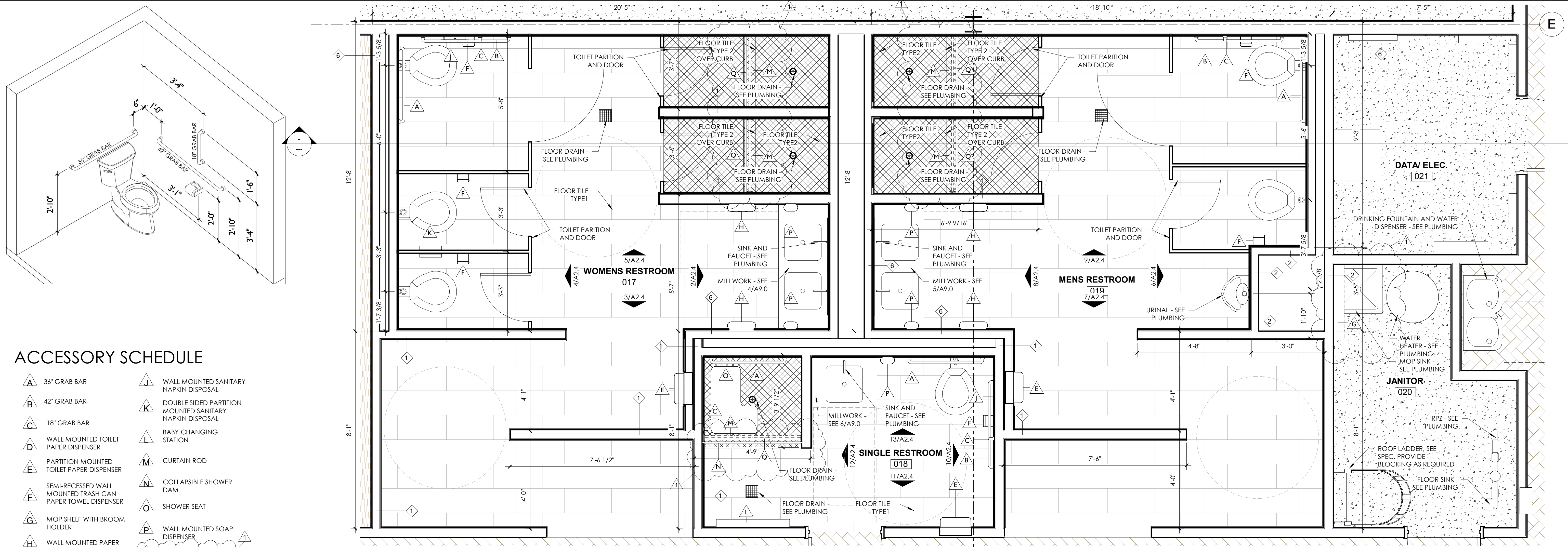
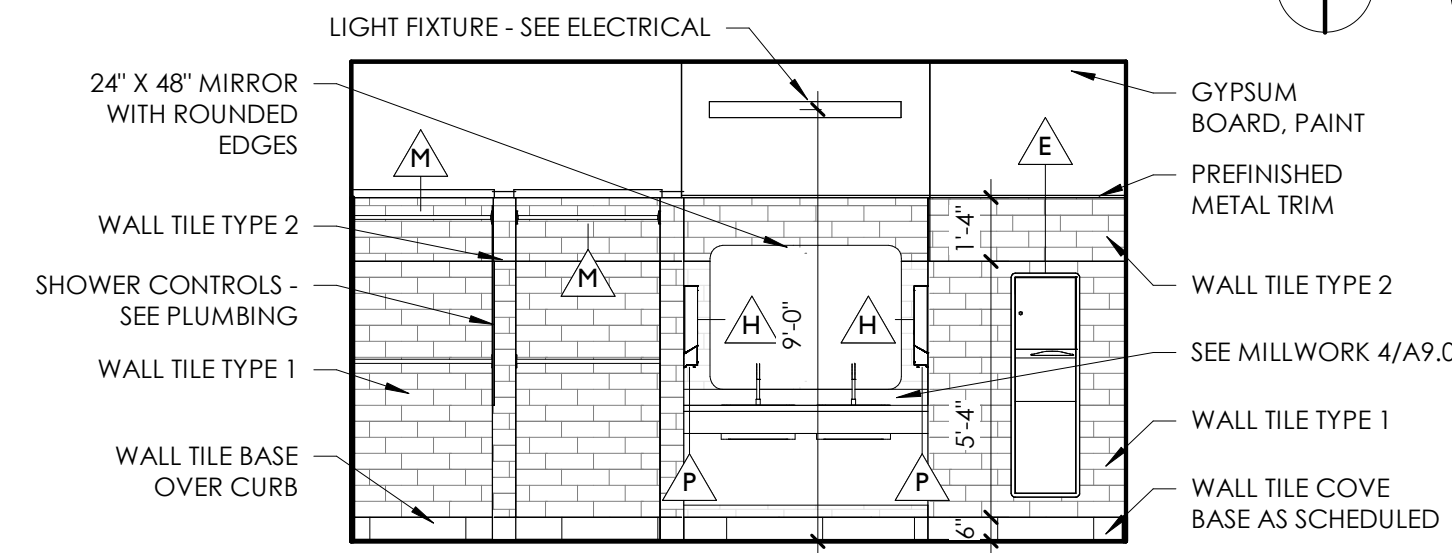




ACCESSORY SCHEDULE

- A 36" GRAB BAR
- B 42" GRAB BAR
- C 18" GRAB BAR
- D WALL MOUNTED TOILET PAPER DISPENSER
- E PARTITION MOUNTED TOILET PAPER DISPENSER
- F SEMI-RECESSED WALL MOUNTED TRASH CAN PAPER TOWEL DISPENSER
- G MOP SHELF WITH BROOM HOLDER
- H WALL MOUNTED PAPER TOWEL DISPENSER
- J WALL MOUNTED SANITARY NAPKIN DISPOSAL
- K DOUBLE SIDED PARTITION MOUNTED SANITARY NAPKIN DISPOSAL
- L BABY CHANGING STATION
- M CURTAIN ROD
- N COLLAPSIBLE SHOWER DAM
- O SHOWER SEAT
- P WALL MOUNTED SOAP DISPENSER
- Q SHOWER CURTAIN

1 ENLARGED FLOOR PLAN - RESTROOM
1/2" = 1'-0"

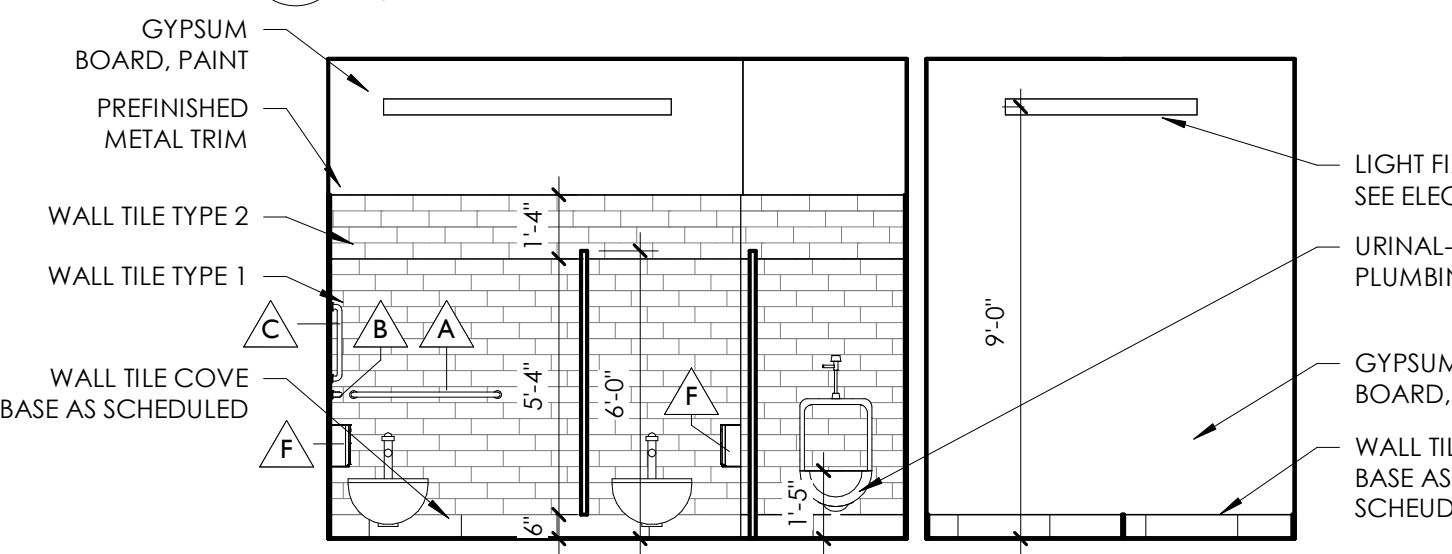


2 WOMENS RESTROOM - EAST
1/4" = 1'-0"

3 WOMENS RESTROOM - SOUTH
1/4" = 1'-0"

4 WOMENS RESTROOM - WEST
1/4" = 1'-0"

5 WOMENS RESTROOM - NORTH
1/4" = 1'-0"

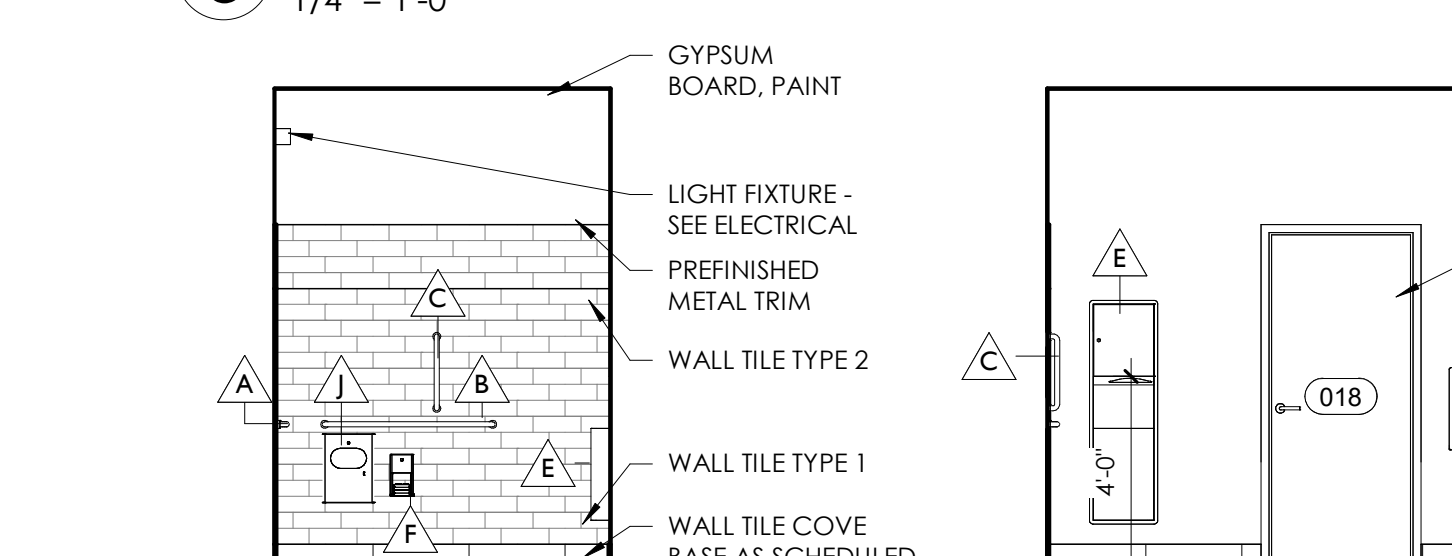


6 MENS RESTROOM - EAST
1/4" = 1'-0"

7 MENS RESTROOM - SOUTH
1/4" = 1'-0"

8 MENS RESTROOM - WEST
1/4" = 1'-0"

9 MENS RESTROOM - NORTH
1/4" = 1'-0"



10 018 - EAST
1/4" = 1'-0"

11 018 - SOUTH
1/4" = 1'-0"

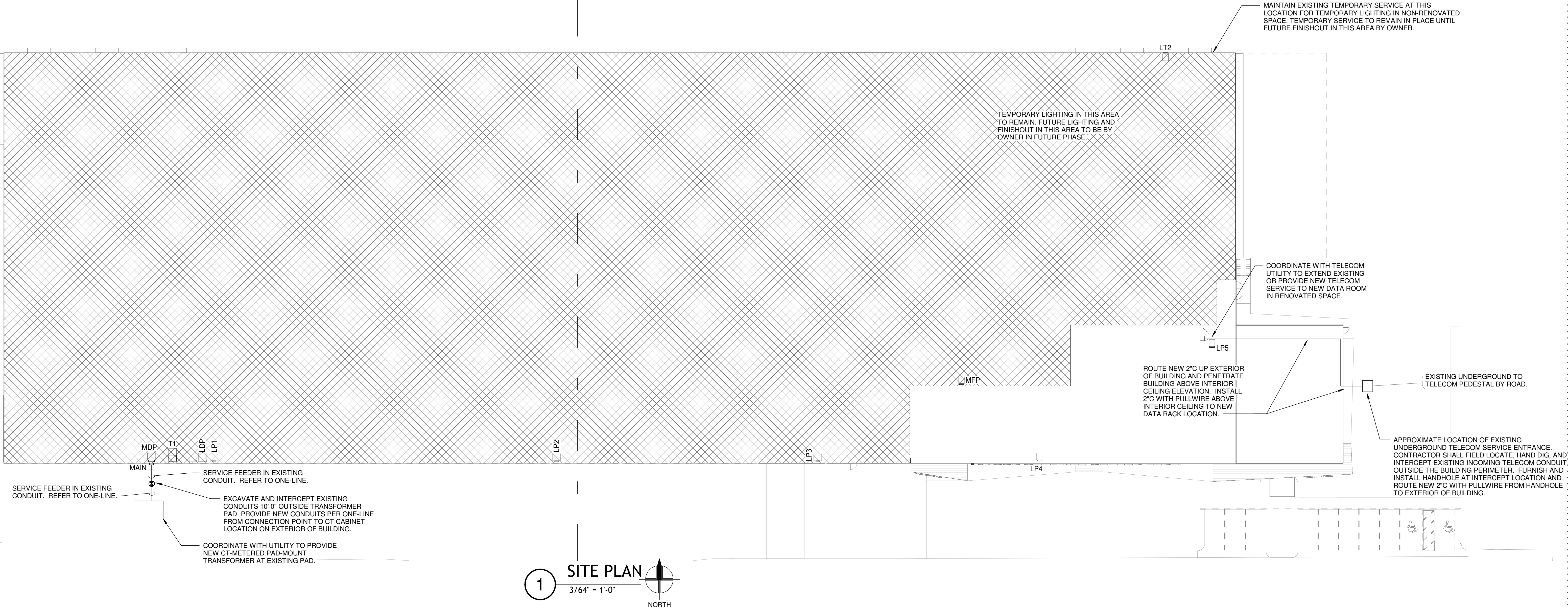
12 018 - WEST
1/4" = 1'-0"

13 018 - WEST
1/4" = 1'-0"

- GENERAL NOTES:
- PROVIDE THE APPROPRIATE BLOCKING FOR ALL ACCESSORIES.
 - LAYOUT ACCESSORIES AND FIXTURES PRIOR TO INSTALLATION TO IDENTIFY POTENTIAL CONFLICTS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.

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Branch Panel: MDP

Location: Space 156
Supply From:
Mounting: Surface
Enclosure: 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22kA
Panel Rating: 800 A MLO

Notes:

CKT	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	CKT
1				18.39			44.73						2
3	T1	500 A	3		15.99			44.73		3	400 A	MFP	4
5						16.19			44.73				6
7				0.00			0.00			3	100 A	SPARE	8
9	SPARE	100 A	3		0.00			0.00					10
11						0.00			0.00				12
13				0.00			0.00						14
15	SPARE	100 A	3		0.00			0.00		3	200 A	SPARE	16
17						0.00			0.00				18
19				0.00			0.00						20
21	SPARE	200 A	3		0.00			0.00		3	100 A	SPARE	22
23						0.00			0.00				24
25	SPACE	--	1	--			--			1	--	SPACE	26
27	SPACE	--	1	--	--		--			1	--	SPACE	28
29	SPACE	--	1	--		--	--			1	--	SPACE	30

Panel Totals

	PHASE A	PHASE B	PHASE C
Total Load:	63.06 kVA	60.65 kVA	60.91 kVA
Total Amps:	228 A	219 A	220 A
Total Conn. Load:	184.62 kVA		
Total Design Current:	347 A		

Notes:

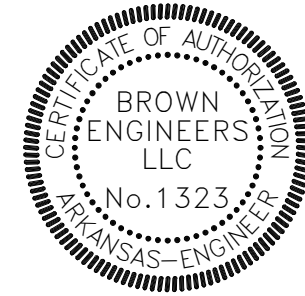


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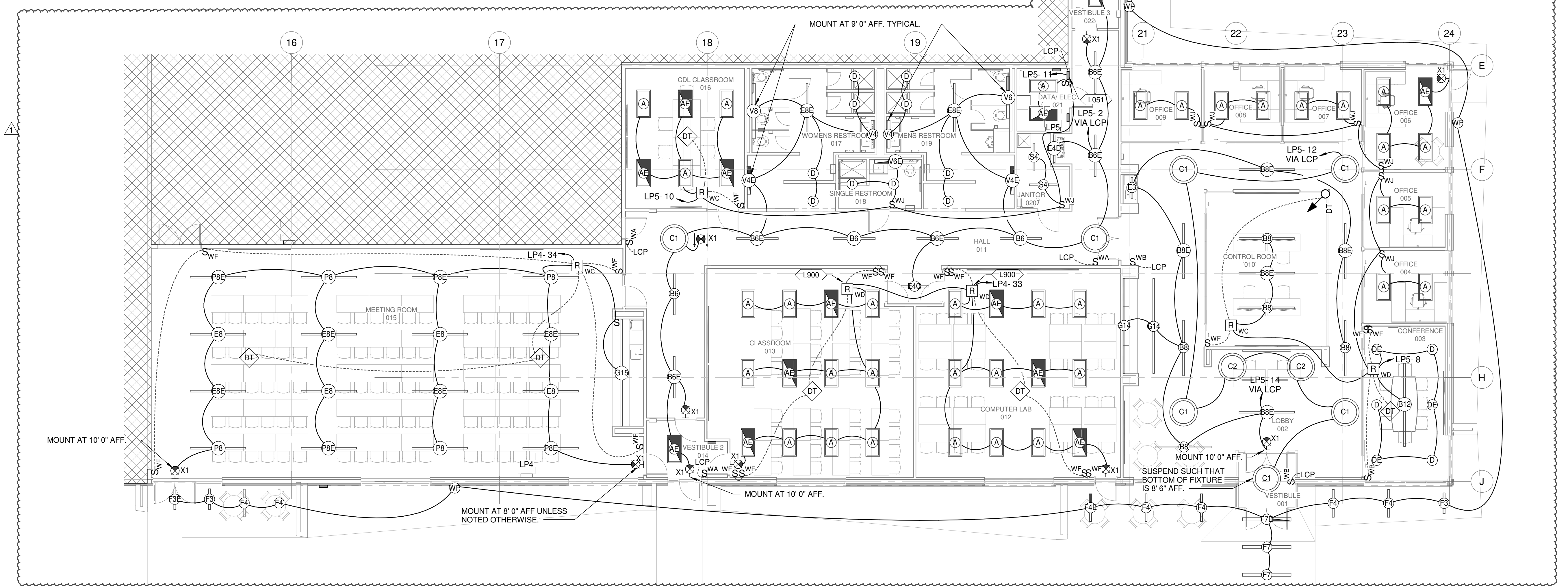
LIGHTING -- FIXTURE SCHEDULE					
MARK	MANUFACTURER	MODEL NUMBER	DESCRIPTION	ELECTRICAL REQUIREMENTS	
				WATTAGE	VOLTAGE
A	FLUXWERX	RA1-24-C-35-F2-M	RECESSED 2x4 TROFFER	36 W	120 V
AE	FLUXWERX	RA1-24-C-35-F2-M-B	RECESSED 2x4 TROFFER WITH BATTERY BACKUP	36 W	120 V
B6	FLUXWERX	PM1-B-A-C-35-X-06-G-F2-M-03	6" SUSPENDED DIRECT/INDIRECT LINEAR	42 W	120 V
B6E	FLUXWERX	PM1-B-A-C-35-X-06-G-F2-M-03-B1	6" SUSPENDED DIRECT/INDIRECT LINEAR WITH BATTERY BACKUP	42 W	120 V
B8	FLUXWERX	PM1-B-A-C-35-X-08-S-F2-M-06	8" SUSPENDED DIRECT/INDIRECT LINEAR	56 W	120 V
B8E	FLUXWERX	PM1-B-A-C-35-X-08-S-F2-M-06-B1	8" SUSPENDED DIRECT/INDIRECT LINEAR WITH BATTERY BACKUP	56 W	120 V
B12	FLUXWERX	PM1-B-A-C-35-X-12-G-F2-M-03	12" SUSPENDED DIRECT/INDIRECT LINEAR	84 W	120 V
C1	OCL	GL1-P1DA-48-MW-MWP-LED2-35K-UNV-100-DM1	48" PENDANT MOUNTED GLOWRING	115 W	120 V
C2	OCL	GL1-C1NA-48-MW-MWP-LED2-35K-UNV-DM1	48" SURFACE MOUNT GLOWRING	115 W	120 V
D	ALPHABET	NU4-RDDR-SW-20LM-35K-90-50D-HET-WH-WH-NC-UNV-DIM10	RECESSED DOWNLIGHT	17 W	120 V
DE	ALPHABET	NU4-RDDR-SW-20LM-35K-90-50D-HET-WH-WH-NC-UNV-DIM10-EM7	RECESSED DOWNLIGHT WITH BATTERY BACKUP	17 W	120 V
E3	FLUXWERX	NT1-L-G1-B-C-35-F2-M-3	3" 0" RECESSED LINEAR	24 W	120 V
E4D	FLUXWERX	NT1-L-DX-B-C-35-F2-M-4	4" 0" RECESSED LINEAR	29 W	120 V
E4G	FLUXWERX	NT1-L-G1-B-C-35-F2-M-4	4" 0" RECESSED LINEAR	29 W	120 V
E8	FLUXWERX	NT1-L-G1-B-D-35-F2-M-8	8" RECESSED LINEAR	58 W	120 V
E8E	FLUXWERX	NT1-L-G1-B-D-35-F2-M-8-B1	8" RECESSED LINEAR WITH BATTERY BACKUP	76 W	120 V
F3	PINNACLE	EX3WET-N-835-3'0"-IND-S-U-FSD-1-0-CBA	3' SURFACE MOUNTED WET RATED LINEAR	14 W	120 V
F3E	PINNACLE	EX3WET-N-835-3'0"-IND-S-U-FSD-1-1ILL-CBA	3' SURFACE MOUNTED WET RATED LINEAR WITH BATTERY BACKUP	14 W	120 V
F4	PINNACLE	EX3WET-N-835-4'0"-IND-S-U-FSD-1-0-CBA	4' SURFACE MOUNTED WET RATED LINEAR	19 W	120 V
F4E	PINNACLE	EX3WET-N-835-4'0"-IND-S-U-FSD-1-1ILL-CBA	4' SURFACE MOUNTED WET RATED LINEAR WITH BATTERY BACKUP	19 W	120 V
F7	PINNACLE	EX3WET-N-835-7'0"-IND-S-U-FSD-1-0-CBA	7' SURFACE MOUNTED WET RATED LINEAR	33 W	120 V
F7E	PINNACLE	EX3WET-N-835-7'0"-IND-S-U-FSD-1-1ILL-CBA	7' SURFACE MOUNTED WET RATED LINEAR WITH BATTERY BACKUP	33 W	120 V
G14	XICO	PBE2-RP-M1-13' 8" MW-H-OFL-S80-35-DLAM-35-UNV-FD10-NN-NN-RCWH5-S24WH	13' 8" RECESSED LINEAR	154 W	120 V
G15	XICO	PBE2-RP-M1-15' 5" MW-H-OFL-S80-35-DLAM-35-UNV-FD10-NN-NN-RCWH5-S24WH	15' 5" RECESSED LINEAR	176 W	120 V
P8	FLUXWERX	PM1-X-B-C-35-X-08-S-F2-M-12	8" SUSPENDED DIRECT LINEAR	56 W	120 V
P8E	FLUXWERX	PM1-X-B-C-35-X-08-S-F2-M-12-B1	8" SUSPENDED DIRECT LINEAR WITH BATTERY BACKUP	56 W	120 V
S4	NORA	NLSTR-4L1334W / NLSTRA-PK	4' LINEAR STRIP	24 W	120 V
V4	PINNACLE	EX3D-WHE-N-835-4'0"-WA-U-FSD-1-0-CBA	4' WALL MOUNTED LINEAR	18 W	120 V
V4E	PINNACLE	EX3D-WHE-N-835-4'0"-WA-U-FSD-1-1PLL-CBA	4' WALL MOUNTED LINEAR WITH BATTERY BACKUP	18 W	120 V
V6	PINNACLE	EX3D-WHE-N-835-6'0"-WA-U-FSD-1-0-CBA	6' WALL MOUNTED LINEAR	27 W	120 V
V6E	PINNACLE	EX3D-WHE-N-835-6'0"-WA-U-FSD-1-1PLL-CBA	6' WALL MOUNTED LINEAR WITH BATTERY BACKUP	27 W	120 V
V8	PINNACLE	EX3D-WHE-N-835-8'0"-WA-U-FSD-1-0-CBA	8' WALL MOUNTED LINEAR	36 W	120 V
WP	NLS LIGHTING	NV-W-T3-16L-7-35K8-UNV-WM-CBA-EM8	EXTERIOR RATED WALL PACK WITH BATTERY BACKUP	37 W	120 V
X1	EVENLITE	SOVIE-EM-R-XX-WH-SU-UC	UNIVERSAL EXITS - SELF POWERED	3 W	120 V

LIGHTING NOTES:

- FURNISH AND INSTALL UNSWITCHED CIRCUIT TO ALL EXIT, EMERGENCY, AND EMERGENCY EGRESS LIGHTING FIXTURES. COORDINATE WITH OWNER FOR TIME SETTINGS OF ALL OCCUPANCY SENSING DEVICES. OCCUPANCY SENSORS IN RESTROOMS AND/OR SHOWER ROOMS SHALL BE SET TO MAXIMUM TIME DELAY.
- SINGLE BUTTON LOW VOLTAGE SWITCHES IN CORRIDORS/LOBBIES SHALL OVERRIDE LCP NORMAL SCHEDULING IN THE AREA THEY ARE PRESENT. PROVIDE MULTI-GANG BOX WHERE MULTIPLE SWITCHES ARE SHOWN ADJACENT TO EACH OTHER.
- WHERE MULTIPLE SWITCHES ARE SHOWN IN ONE ROOM/AREA FOR ONE ZONE, SWITCHES SHALL BE CONFIGURED TO CONTROL THE SINGLE ZONE FROM MULTIPLE LOCATIONS.

KEYNOTES

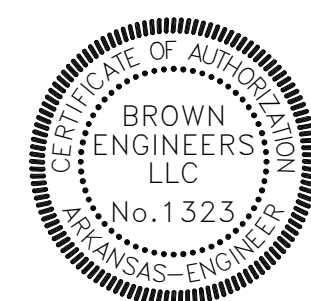
- L051 FURNISH AND INSTALL "WATTSTOPPER LMCP SERIES" LIGHTING CONTROL PANEL. PROVIDE WITH PHOTOCELL AND TIMECLOCK FOR AUTOMATIC CONTROL. REFERENCE LIGHTING CONTROL NOTES AND COORDINATE WITH OWNER FOR FINAL PROGRAMMING.
- L900 FIXTURES AT TEACHING WALL SHALL BE SWITCHED AND DIMMED SEPARATELY THAN REST OF ROOM.

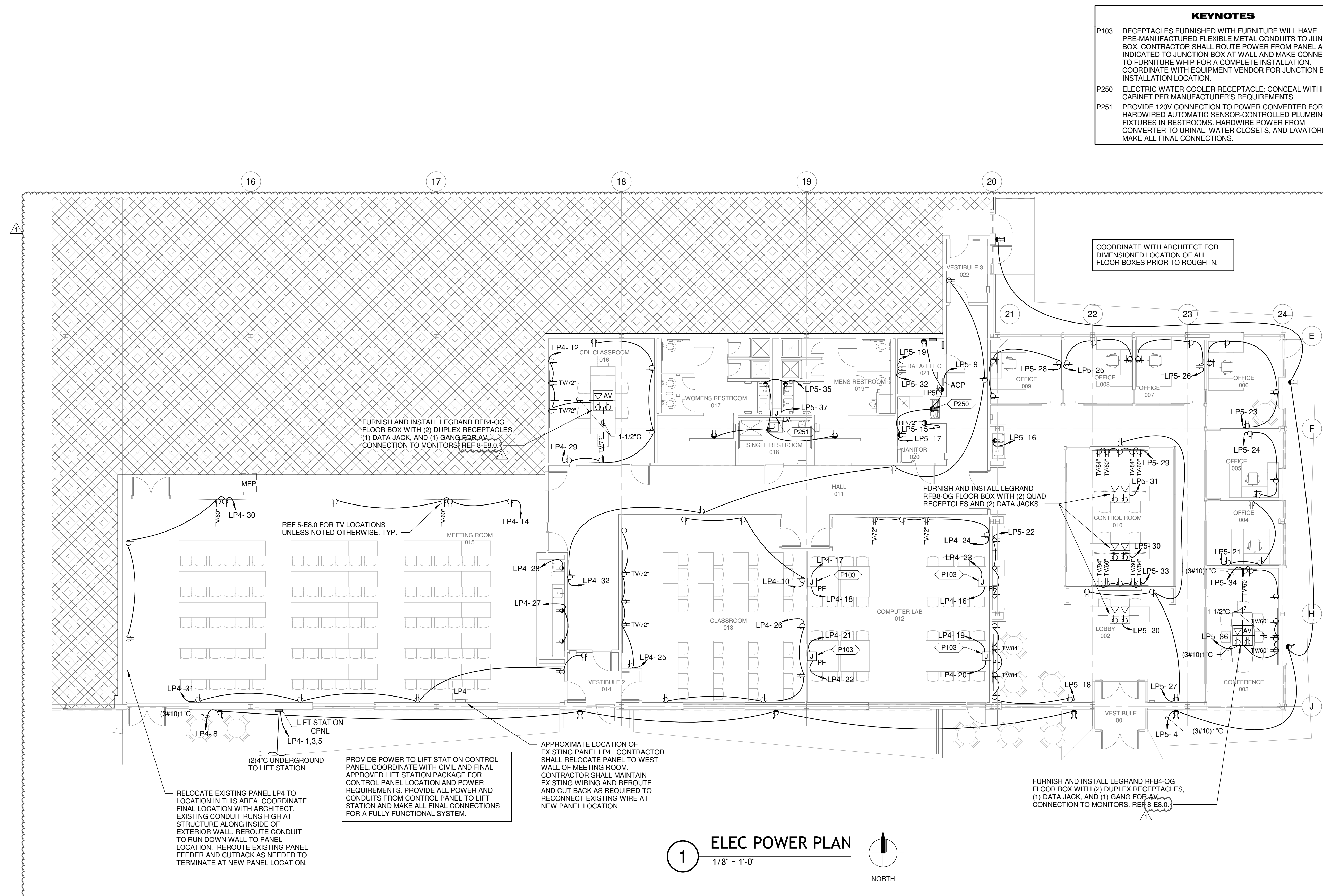


1 LIGHTING PLAN
1/8" = 1'-0"
NORTH



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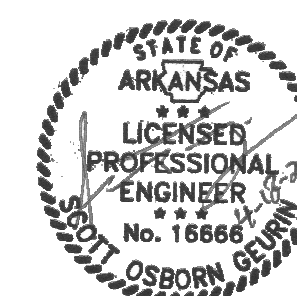


KEYNOTES

- | | |
|------|--|
| P103 | RECEPTACLES FURNISHED WITH FURNITURE WILL HAVE PRE-MANUFACTURED FLEXIBLE METAL CONDUITS TO JUNCTION BOX. CONTRACTOR SHALL ROUTE POWER FROM PANEL AS INDICATED TO JUNCTION BOX AT WALL AND MAKE CONNECTIONS TO FURNITURE VENDOR FOR A COMPLETE INSTALLATION. COORDINATE WITH EQUIPMENT VENDOR FOR JUNCTION BOX INSTALLATION LOCATION. |
| P250 | ELECTRIC WATER COOLER RECEPTACLE: CONCEAL WITHIN CABINET PER MANUFACTURER'S REQUIREMENTS. |
| P251 | PROVIDE 120V CONNECTION TO POWER CONVERTER FOR HARDWIRED AUTOMATIC SENSOR-CONTROLLED PLUMBING FIXTURES IN RESTROOMS. HARDWIRE POWER FROM CONVERTER TO SINK, WATER CLOSETS, AND LAVATORIES. MAKE ALL FINAL CONNECTIONS. |

COORDINATE WITH ARCHITECT FOR
DIMENSIONED LOCATION OF ALL
FLOOR BOXES PRIOR TO ROUGH-IN.

FURNISH AND INSTALL LEGRAND RFB4-OG
FLOOR BOX WITH (2) DUPLEX RECEPTACLES
(1) DATA JACK, AND (1) GANG FOR AV.
CONNECTION TO MONITORS. REF 8-E8.0. —

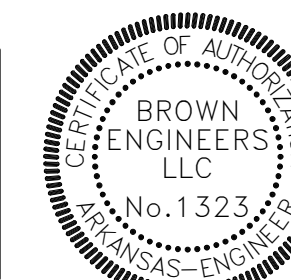


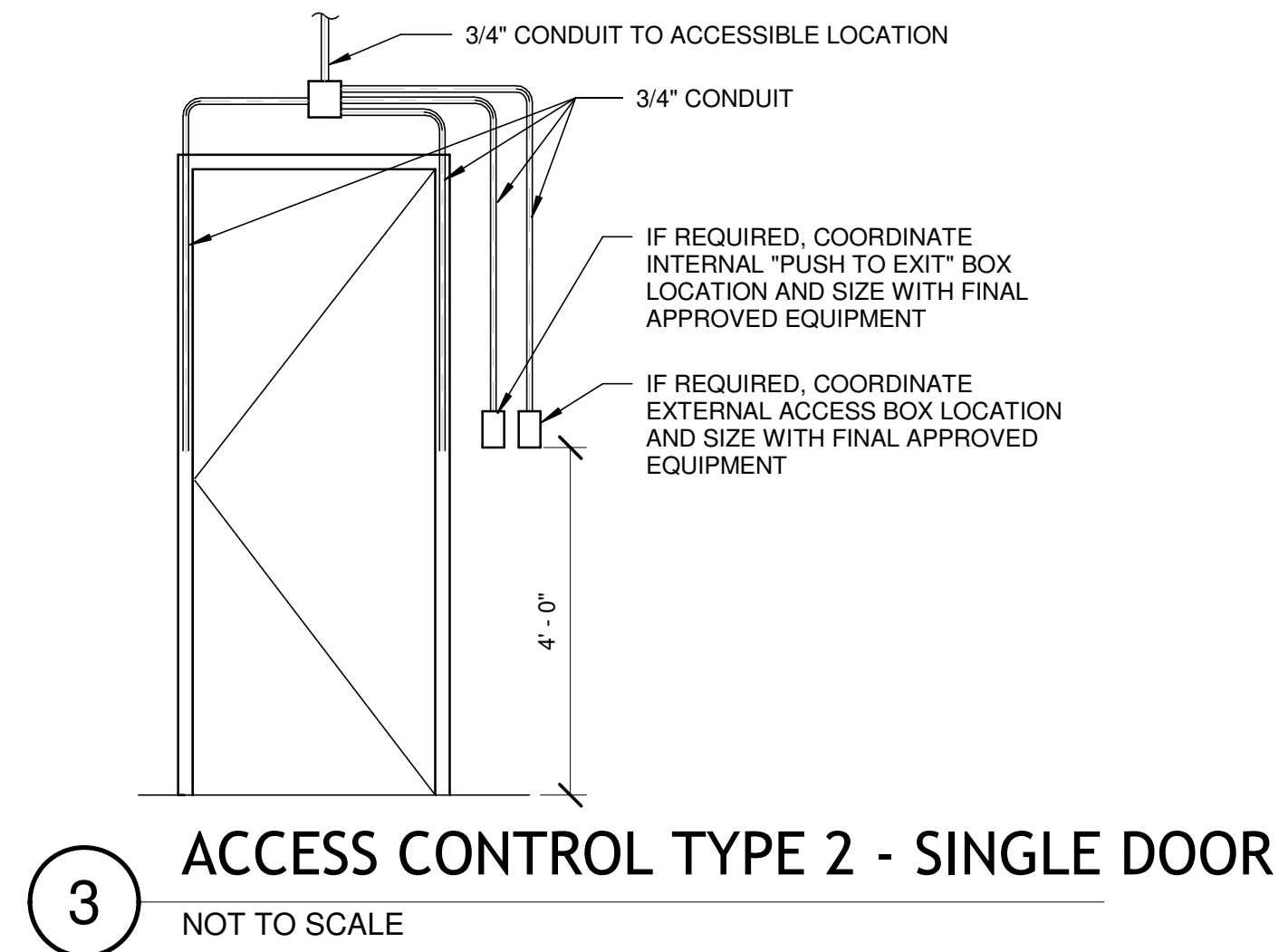
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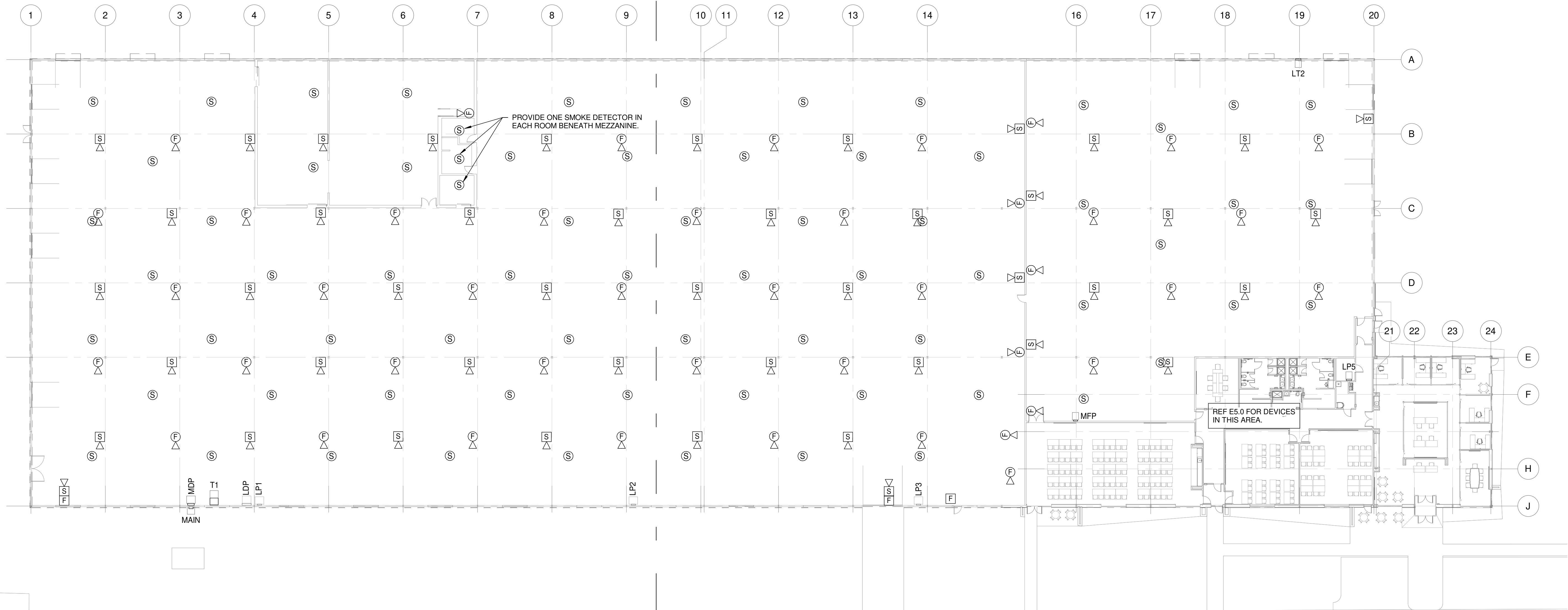




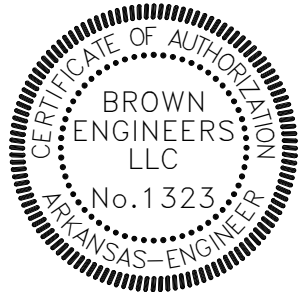
KEYNOTES	
P300	FURNISH AND INSTALL 4'X4' PLYWOOD TELEPHONE BACKBOARD. REFERENCE TELEPHONE AND DATA RISER DIAGRAM.
P302	FURNISH AND INSTALL WALL MOUNTED DATA RACK IN AV/IT ROOM. RACK SHALL BE 19.86"W X 18"D X 22.25"H. RACK SHALL BE DAMAC WR24S-3 OR EQUAL.

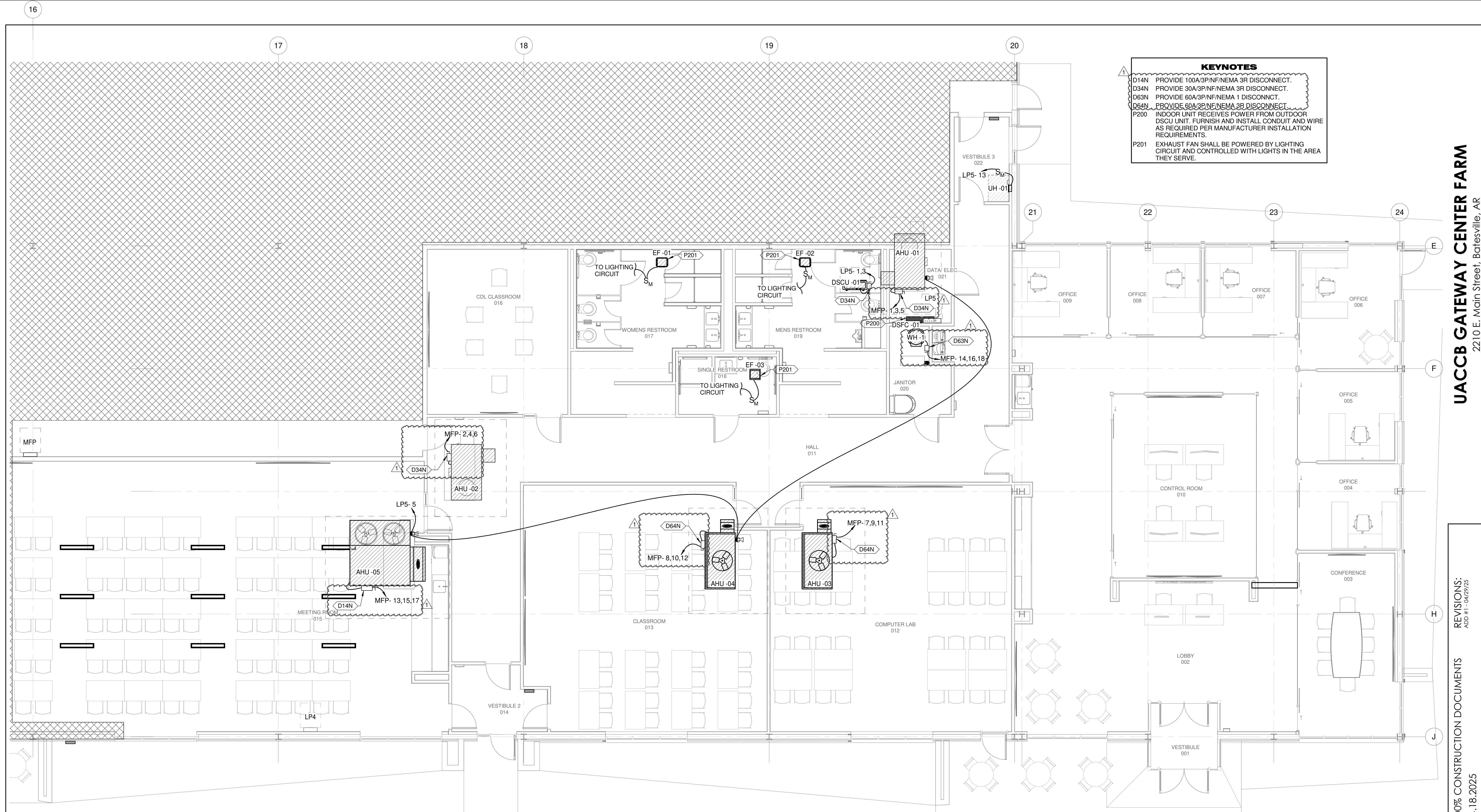


FIRE ALARM NOTE:
CONTRACTOR SHALL PROVIDE A FULLY FUNCTIONAL COMPLETE U.L. LISTED
FIRE ALARM SYSTEM TO MEET THE REQUIREMENTS OF THE NFPA 101, NFPA
72, ADA-AG, AND THE LOCAL AUTHORITY HAVING JURISDICTION.
CONTRACTOR SHALL EMPLOY THE SERVICES OF A NICET LEVEL 4
TECHNICIAN TO LAYOUT ALL REQUIRED DEVICES AND COMPLY WITH ALL
APPLICABLE SECTIONS OF NFPA 72.



1 FIRE ALARM PLAN
3/64" = 1'-0"





KEYNOTES

D14N PROVIDE 100A/3P/NF/NEMA 3R DISCONNECT.
D34N PROVIDE 30A/3P/NF/NEMA 3R DISCONNECT.
D63N PROVIDE 60A/3P/NF/NEMA 1 DISCONNECT.
D64N PROVIDE 60A/3P/NF/NEMA 3R DISCONNECT.
P200 INDOOR UNIT RECEIVES POWER FROM OUTDOOR DSCU UNIT. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED PER MANUFACTURER INSTALLATION REQUIREMENTS.
P201 EXHAUST FAN SHALL BE POWERED BY LIGHTING CIRCUIT AND CONTROLLED WITH LIGHTS IN THE AREA THEY SERVE.

1 MECH POWER PLAN
3/16" = 1'-0"

NORTH

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LICENSED PROFESSIONAL ENGINEER
No. 16666
OSBORN GUNN

BE BROWN ENGINEERS
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P 501.372.6734
www.browngineers.net

CERTIFICATE OF AUTHORIZATION
BROWN ENGINEERS, LLC
No. 1323
ARKANSAS-ENGINEERS

Branch Panel: MFP

Location: Space 157
Supply From: MDP
Mounting: Surface
Enclosure: NEMA 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22kA
Panel Rating: 400 A MLO

Notes:

CKT	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	CKT
3	AHU -1	20 A	3	4.05	4.05		3.05	3.05		3	15 A	AHU -2	4
5						4.05			3.05				6
7				7.76			7.76						8
9	AHU -3	35 A	3		7.76		7.76			3	35 A	AHU -4	10
11					7.76		7.76						12
13				18.01			4.10						14
15	AHU -5	80 A	3		18.01		4.10			3	20 A	WH-1	16
17					18.01		4.10						18
19				0.00			0.00						20
21	SPARE	100 A	3		0.00		0.00			3	40 A	SPARE	22
23						0.00			0.00				24
25				0.00			--			1	--	SPACE	26
27	SPARE	20 A	3		0.00		--			1	--	SPACE	28
29						0.00			--	1	--	SPACE	30

Panel Totals

Total Load:

Total Amps:

Total Conn. Load:

Total Design Current:

PHASE A

44.73 kVA

161 A

134.18 kVA

252 A

PHASE B

44.73 kVA

161 A

PHASE C

44.73 kVA

161 A

- PANELBOARD NOTES
- (1)

INSTALL LOCKING DEVICE (LOCK-OFF FOR MAINTENANCE)
- (2)

INSTALL LOCKING DEVICE (LOCK-ON FOR CRITICAL LOAD).
- (3)

REFER TO SITE LIGHTING PLAN FOR WIRE SIZES.
- (4)

PROVIDE GFI CIRCUIT BREAKER OR INLINE GFI FOR PERSONNEL PROTECTION (5 mA).
- (5)

PROVIDE GFI CIRCUIT BREAKER OR INLINE GFI FOR EQUIPMENT PROTECTION (30 mA).
- (6)

PROVIDE U.L. LISTED OVERCURRENT DEVICE TO COORDINATE AND MAINTAIN MANUFACTURER'S SERIES RATED SYSTEM.
- (7)

EXISTING CIRCUIT TO REMAIN.
- (8)

EXISTING CIRCUIT BREAKER TO REMAIN. VERIFY CONDITION OF CIRCUIT BREAKER TO ENSURE THAT IT IS OPERATIONAL AND MEETS ALL U.L. RATINGS.
- (9)

TRACE EXISTING CIRCUIT, IDENTIFY LOAD AND PROVIDE TYPEWRITTEN PANELBOARD SCHEDULE AND PLACE ON INTERIOR OF PANELBOARD DOOR. IF CIRCUIT IS A "SPARE", REFER TO NOTE (8).

Branch Panel: LP4

Location: MEETING ROOM 015
Supply From: LDP
Mounting: Surface
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22kA
Panel Rating: 400 A MLO

Notes: EXISTING PANEL

CKT	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	CKT
1				2.35			9.82						2
3	LIFT STATION CPNL AND PUMP (6)	70 A	3		2.35			8.28		3	100 A	LP5 (6)	4
5						2.35			8.44				6
7	FOR FUTURE USE AT GARDEN AREA (4...	20 A	1	0.00			0.72			1	20 A	WEST EXTERIOR RECEPTS	8
9	FOR FUTURE USE AT GARDEN AREA...	20 A	1		0.00			0.18		1	20 A	RECEPTACLES CLASSROOM 013	10
11	FOR FUTURE USE AT GARDEN AREA...	20 A	1			0.00			0.90	1	20 A	RECEPTACLES CDL CLASSROOM 016	12
13	FOR FUTURE USE AT GARDEN AREA...	20 A	1	0.00			0.72			1	20 A	RECEPTACLES MEETING ROOM 015	14
15	FOR FUTURE USE AT GARDEN AREA...	20 A	1		0.00			0.72		1	20 A	POWERED FURNITURE COMP LAB 012	16
17	POWERED FURNITURE COMP LAB 012	20 A	1			0.72			0.72	1	20 A	POWERED FURNITURE COMP LAB 012	18
19	POWERED FURNITURE COMP LAB 012	20 A	1	0.72			0.72			1	20 A	POWERED FURNITURE COMP LAB 012	20
21	POWERED FURNITURE COMP LAB 012	20 A	1		0.72			0.72		1	20 A	POWERED FURNITURE COMP LAB 012	22
23	POWERED FURNITURE COMP LAB 012	20 A	1			0.72			0.72	1	20 A	RECEPTACLES COMP LAB 012	24
25	RECEPTACLES CLASSROOM 013	20 A	1	0.90			0.72			1	20 A	RECEPTACLES CLASSROOM 013	26
27	AC RECEPTS MEETING ROOM	20 A	1		0.72			0.36		1	20 A	COFFEE MAKER MEETING ROOM 015	28
29	RECEPTACLES CDL CLASSROOM 016	20 A	1			0.90			0.72	1	20 A	RECEPTACLES MEETING ROOM 015	30
31	RECEPTACLES MEETING ROOM 015	20 A	1	0.90			0.90			1	20 A	RECEPTACLES HALL 011	32
33	LIGHTING CDL CLASSROOM 016	20 A	1		0.86			1.16		1	20 A	LIGHTING MEETING ROOM 015	34
35	SPARE (6)	20 A	1			0.00			0.00	1	20 A	SPARE (6)	36
37	SPARE (6)	20 A	1	0.00			0.00			1	20 A	SPARE (6)	38
39	SPARE (6)	20 A	1		0.00			0.00		1	20 A	SPARE (6)	40
41	SPARE (6)	20 A	1			0.00			0.00	1	20 A	SPARE (6)	42

Panel Totals

Total Load:

Total Amps:

Total Conn. Load:

Total Design Current:

PHASE A

18.39 kVA

154 A

50.57 kVA

220 A

PHASE B

15.99 kVA

133 A

PHASE C

16.19 kVA

135 A

Branch Panel: LP5

Location: DATA/ ELEC. 021
Supply From: LP4
Mounting: Surface
Enclosure: 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22kA
Panel Rating: 100 A MLO

Notes:

CKT	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	CKT
1	DSCU -01	30 A	2	2.78			1.45			1	20 A	LIGHTING VESTIBULE 2 014	2
3					2.78			0.72		1	20 A	EAST EXTERIOR RECEPTS	4
5	HVAC CONVENIENCE RECEPTS	20 A	1			0.54			0.38	1	20 A	EXTERIOR LIGHTING	6
7	FACP (2)	20 A	1	0.06			0.85			1	20 A	OFFICES, CONTROL ROOM LTG	8
9	ACP	20 A	1		0.06			0.61		1	20 A	LTG RM 15, 016, 17, 18, 19, 20, 21	10
11	LCP	20 A	1			0.06			0.81	1	20 A	LIGHTING LOBBY 002	12
13	UH -01	20 A	1	0.50			0.72			1	20 A	LIGHTING LOBBY 002	14
15	RECIRC PUMP	20 A	1		0.18			0.18		1	20 A	COFFEE MAKER LOBBY 002	16
17	GFI RECEPTS, EWC (4)	20 A	1			0.72			0.90	1	20 A	RECEPTACLES LOBBY 002	18
19	RECEPTACLES DATA/ ELEC. 021	20 A	1	0.36			0.72			1	20 A	RECEPTACLES LOBBY 002	20
21	RECEPTACLES OFFICE 004	20 A	1		0.72			0.54		1	20 A	ABOVE COUNTER RECEPTS LOBBY 002	22
23	RECEPTACLES OFFICE 006	20 A	1			0.90			0.72	1	20 A	RECEPTACLES OFFICE 005	24
25	RECEPTACLES OFFICE 008	20 A	1	0.72			0.72			1	20 A	RECEPTACLES OFFICE 007	26
27	RECEPTACLES LOBBY 002	20 A	1		0.72			0.72		1	20 A	RECEPTACLES OFFICE 009	28
29	RECEPTACLES CONTROL ROOM 010	20 A	1			0.90			0.72	1	20 A	RECEPTACLES CONTROL ROOM 010	30
31	RECEPTACLES CONTROL ROOM 010	20 A	1	0.72			0.36			1	20 A	RECEPTACLES DATA/ ELEC. 021	32
33	RECEPTACLES CONTROL ROOM 010	20 A	1		0.90			0.54		1	20 A	RECEPTACLES CONFERENCE 003	34
35	RESTROOMS RECEPTS	20 A	1			0.90			0.90	1	20 A	RECEPTACLES CONFERENCE 003	36
37	BATHROOM SENSORS	20 A	1	0.25			0.00			1	20 A	SPARE	38
39	SPARE	20 A	1		0.00			0.00		1	20 A	SPARE	40
41	SPARE	20 A	1			0.00			0.00	1	20 A	SPARE	42

Panel Totals

Total Load:

Total Amps:

Total Conn. Load:

Total Design Current:

PHASE A

9.82 kVA

82 A

26.54 kVA

92 A

PHASE B

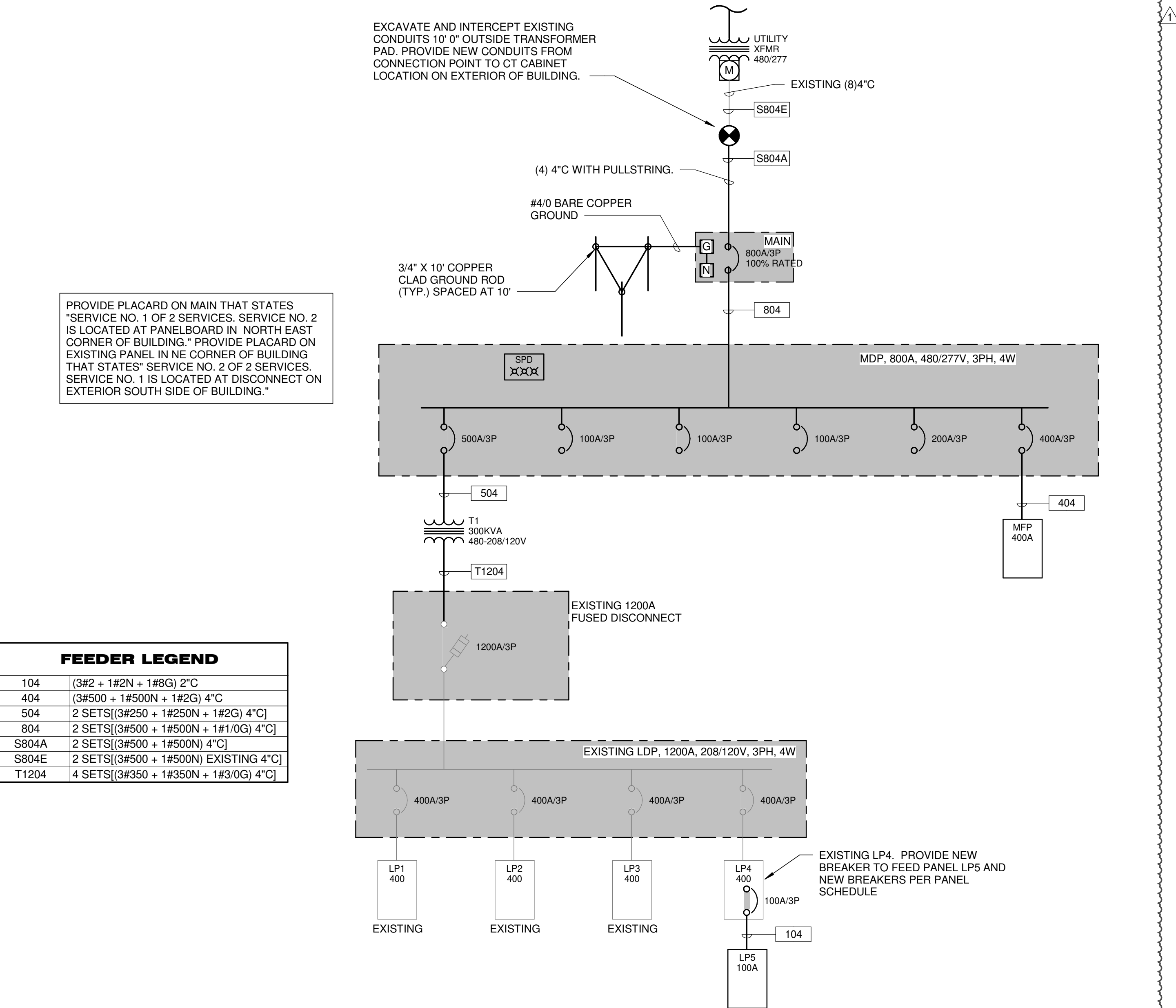
8.28 kVA

69 A

PHASE C

8.44 kVA

71 A



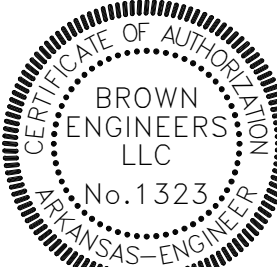
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ONE LINE DIAGRAM

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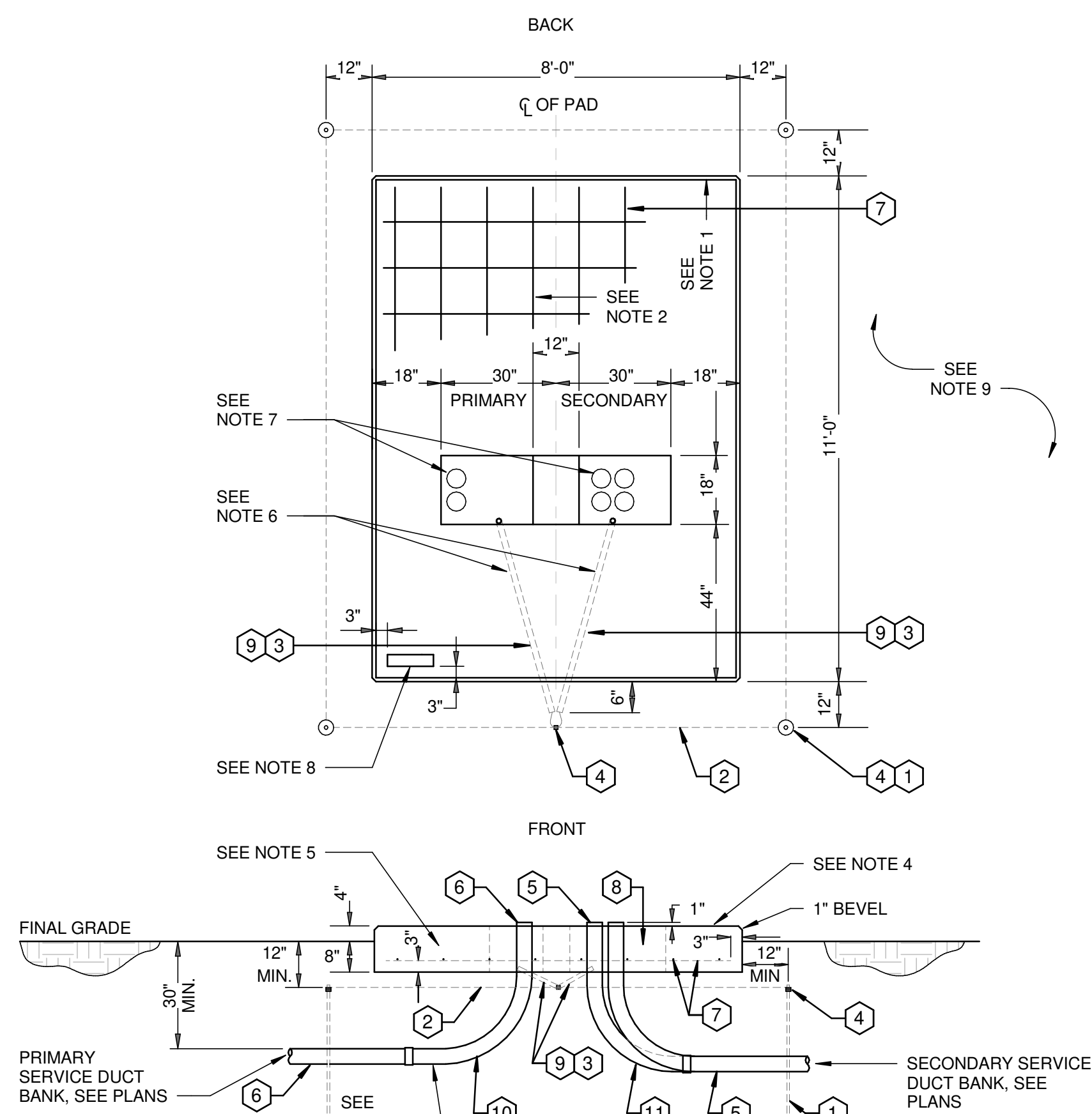
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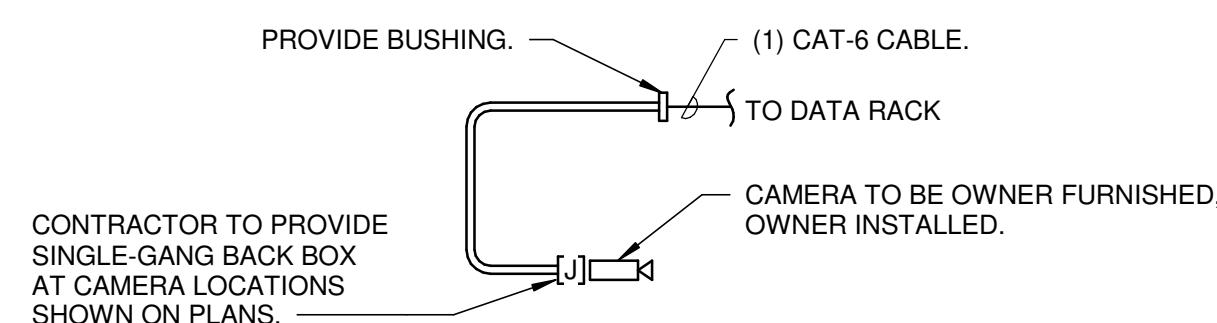
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1. INSTALL NEW COPPER CLAD GROUND ROD, 3/4" x 10'-0", TYPICAL OF 4.
2. INSTALL NEW #20 BARE COPPER CONDUCTOR (TYPICAL).
3. INSTALL NEW #2 BARE COPPER CONDUCTOR.
4. INSTALL NEW EXOTHERMIC WELD, TYPICAL OF 3.
5. INSTALL NEW SECONDARY CONDUITS, SEE SITE PLAN.
6. INSTALL NEW PRIMARY CONDUITS, SEE SITE PLAN.
7. INSTALL NEW #4 REBAR, 12" O.C. BOTH WAYS.
8. CONSTRUCT NEW PAD USING CONCRETE, 3500 PSI AT 28 DAYS.
9. INSTALL NEW 1" GRSC UNDER PAD FOR GROUND WIRES (TYPICAL).
10. UTILIZE LONG SWEEP 90° BEND PVC CONDUITS ON PRIMARY CONDUITS.
11. UTILIZE LONG SWEEP 90° BEND CONDUITS ON SECONDARY CONDUITS.

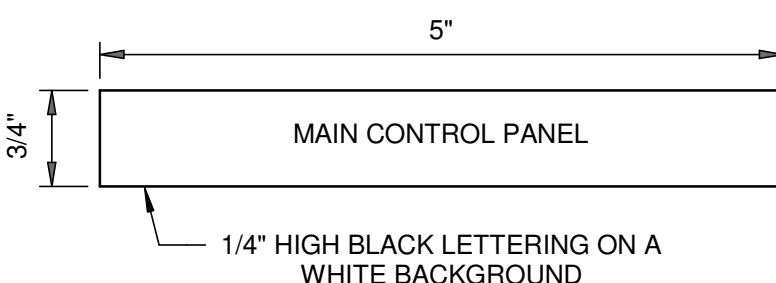
1. WHERE POSSIBLE, DO NOT PLACE CONDUIT UNDER THIS SECTION OF FOUNDATION.
2. REINFORCING - #4 BARS 12" O.C. BOTH WAYS.
3. WHEN INSTALLING CONDUIT, DISTURB GROUND IN FOUNDATION AREA AS LITTLE AS POSSIBLE. EXTEND CONDUIT 1" ABOVE FOUNDATION.
4. TOP OF FOUNDATION TO BE SMOOTH AND LEVEL. FINAL GRADE SHALL SLOPE AWAY FROM PAD.
5. CONCRETE SHALL BE 3500 PSI AT 28 DAYS AND 1:2:4 MIXTURE WITH 6 GAL. MAX. WATER CONTENT PER SACK OF CEMENT.
6. CONTRACTOR TO FURNISH 1" CONDUIT UNDER PAD FOR GROUND WIRE.
7. LOCATE CONDUITS UNDER PRIMARY AND SECONDARY BUSHINGS.
8. TRANSFORMER LOCATION TAG SHALL BE ATTACHED TO PAD WITH CONCRETE NAILS OR SHEET METAL SCREWS.
9. TRANSFORMER AND PAD EACH REQUIRES A MINIMUM 3'-0" CLEARANCE AROUND EACH SIDE AND BACK OF PAD. A 15'-0" CLEARANCE IS REQUIRED ON FRONT SIDE OF PAD.



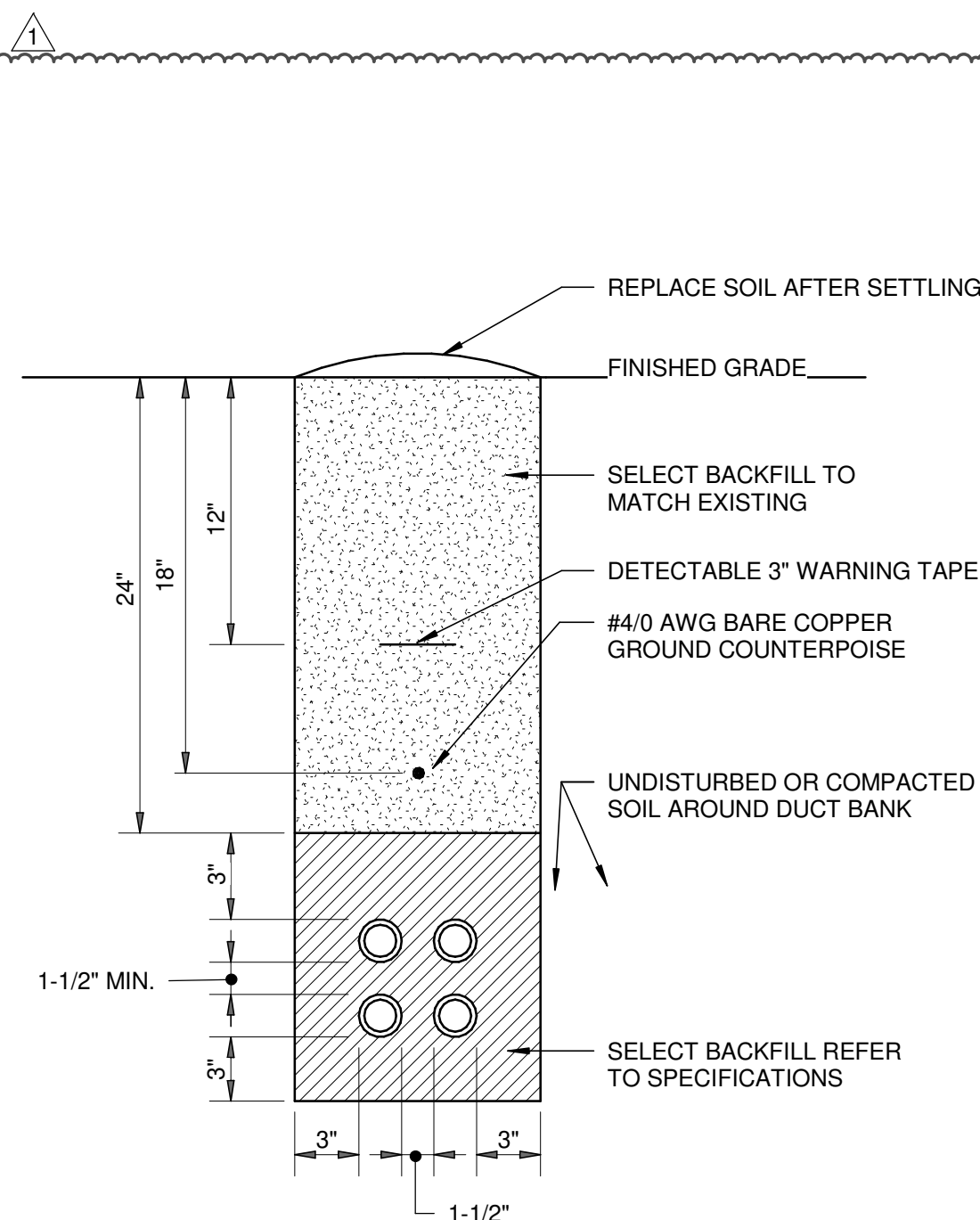
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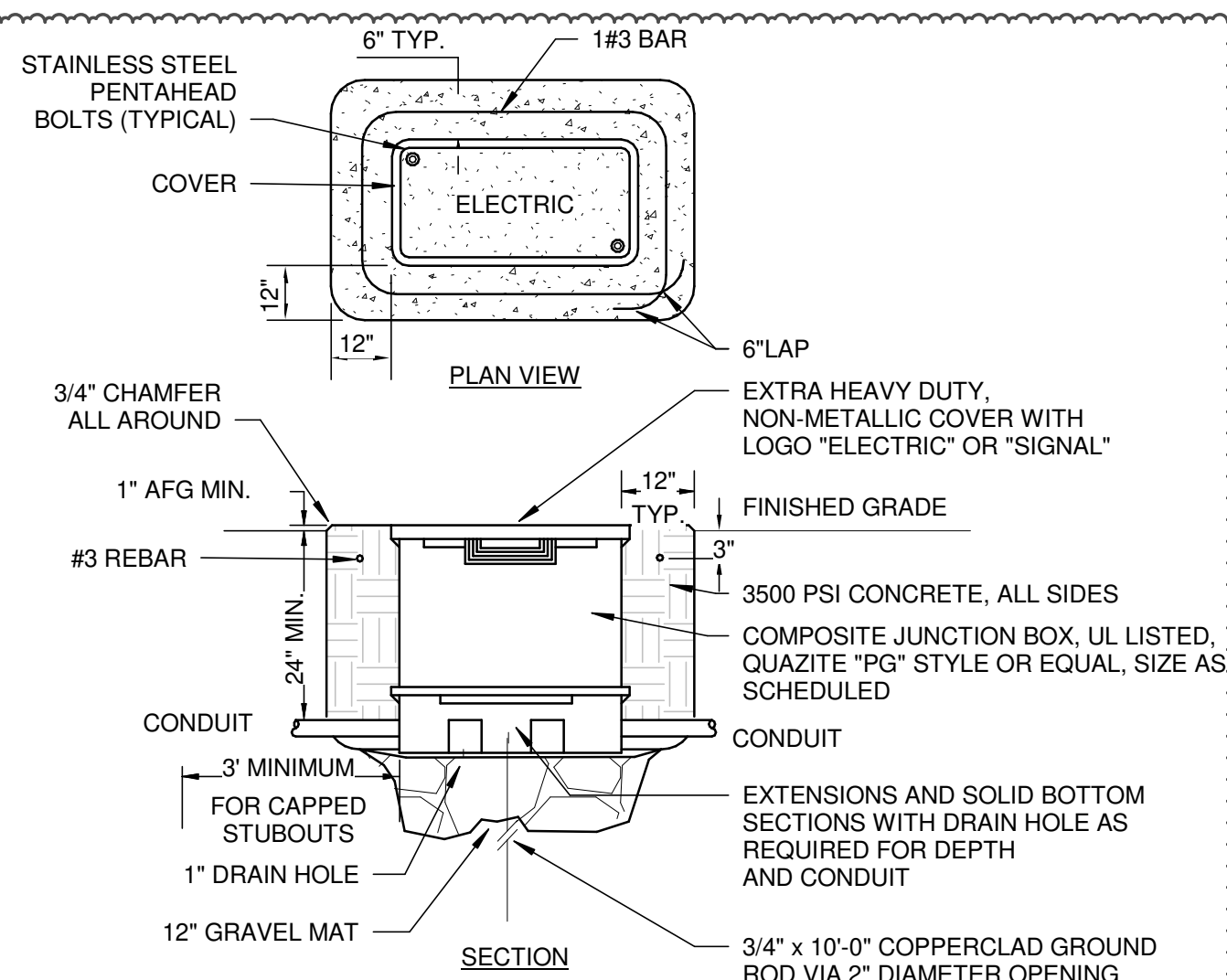


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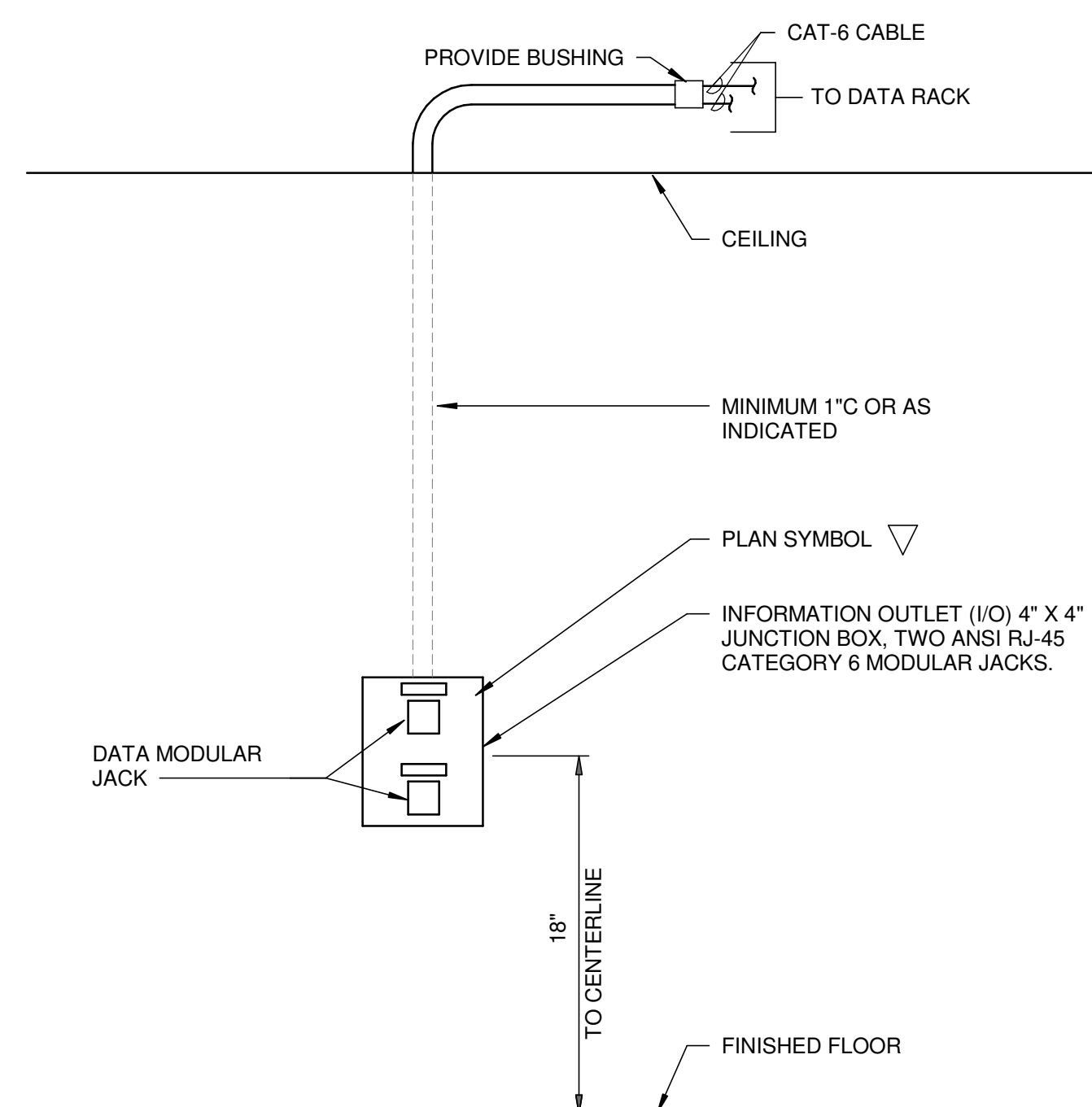
6) NOT TO SCALE

1. CONTRACTOR SHALL STAKE THE DUCT INSTALLATION IN PLAN AND ELEVATION FOR NEW ELECTRICAL DUCTS TO AVOID EXISTING UTILITIES.
2. CONTRACTOR SHALL ADJUST THE DEPTH OF THE ELECTRICAL DUCTS AS REQUIRED TO MAINTAIN THE MINIMUM COVER REQUIREMENT INDICATED AND AVOID EXISTING UTILITIES.
3. SIMILAR CONSTRUCTION FOR OTHER DUCT SIZES. SEE DUCT BANK SCHEDULE FOR QUANTITY AND SIZES.
4. INSTALL DUCT CONDUIT SUPPORTS AT 5'-0" O.C. MAXIMUM SPACING (TYPICAL ALL DUCTS).
5. OFFSETS AND BENDS OVER 10 DEGREES AND ELBOWS IN PVC CONDUIT RUNS SHALL BE GALVANIZED RIGID STEEL CONDUIT.
6. NO PVC SHALL EMERGE FROM THE GROUND OR CONCRETE SLAB OR ENCASEMENT. PVC SHALL CONVERT TO GALVANIZED RIGID STEEL CONDUIT PRIOR TO ITS EMERGENCE.
7. INSTALL GROUND RODS AT ENDS OF ELECTRICAL DUCT OF CONNECT TO GROUND RING.
8. INSTALL CONDUCTORS AND CABLES AS NOTED ON DRAWING. INSTALL PULLWIRE IN ALL SPARE DUCTS.
9. MINIMUM COVER REQUIREMENT FOR DUCT BANKS UNDER ROADS, DRIVEWAYS AND PARKING LOTS SHALL BE 24".
10. MINIMUM COVER REQUIREMENTS FOR ELECTRICAL SECONDARY SERVICE DUCT BANKS SHALL BE 30".
11. MINIMUM COVER REQUIREMENTS FOR ELECTRICAL PRIMARY SERVICE DUCT BANKS SHALL BE 36".



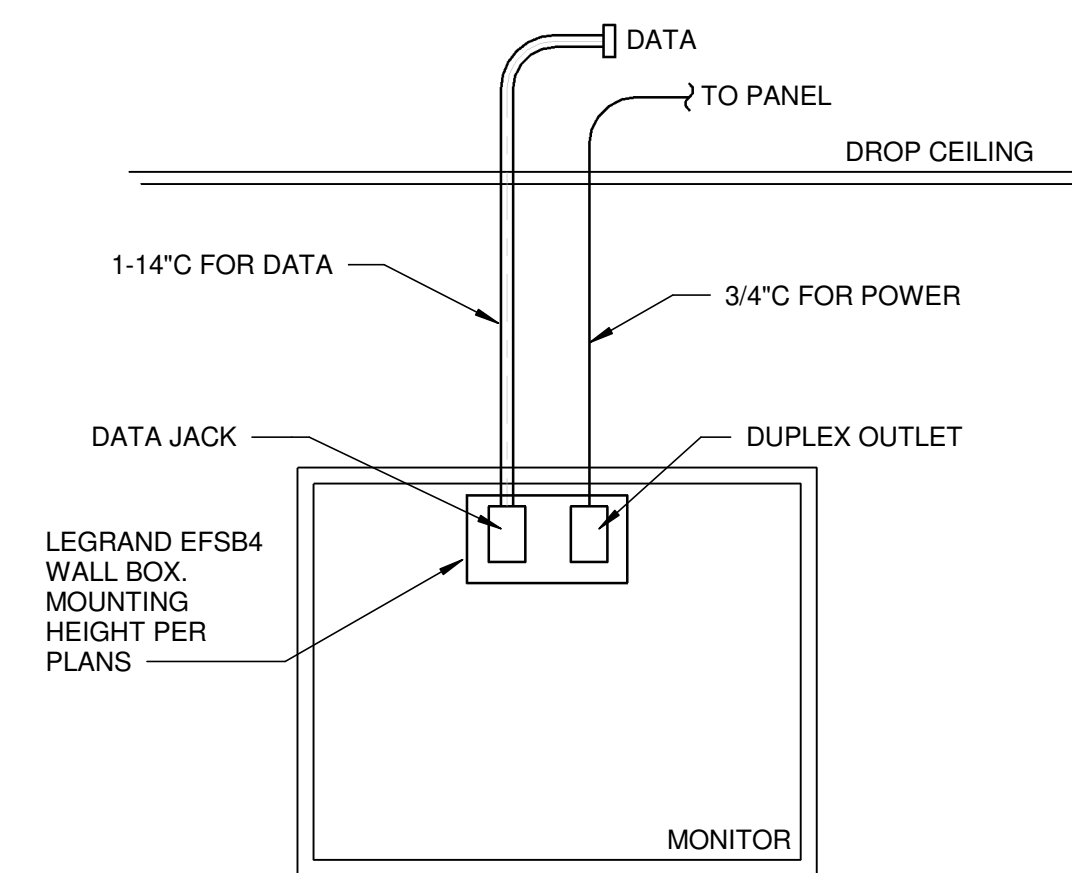
1. HANDHOLE AND EXTRA HEAVY-DUTY COVER SHALL BE DESIGNED FOR A TEST LOAD OF 33,750 LBS AND A DESIGN LOAD OF 22,500 LBS.
2. PROVIDE HANDHOLE WITH 2" C STUBOUTS IN EACH FACE, CAPPED WATERTIGHT.
3. HANDHOLE INTERIOR DIMENSIONS SHALL BE 30" L x 17" W x 28" D.
4. PROVIDE MINIMUM 3' SLACK CABLE LOOP FOR EACH CABLE.
5. COLOR CODE, TAG AND IDENTIFY ALL CABLES IN HANDHOLE.
6. EXACT LOCATION OF EACH HANDHOLE SHALL BE APPROVED BY THE OWNER AND ENGINEER.

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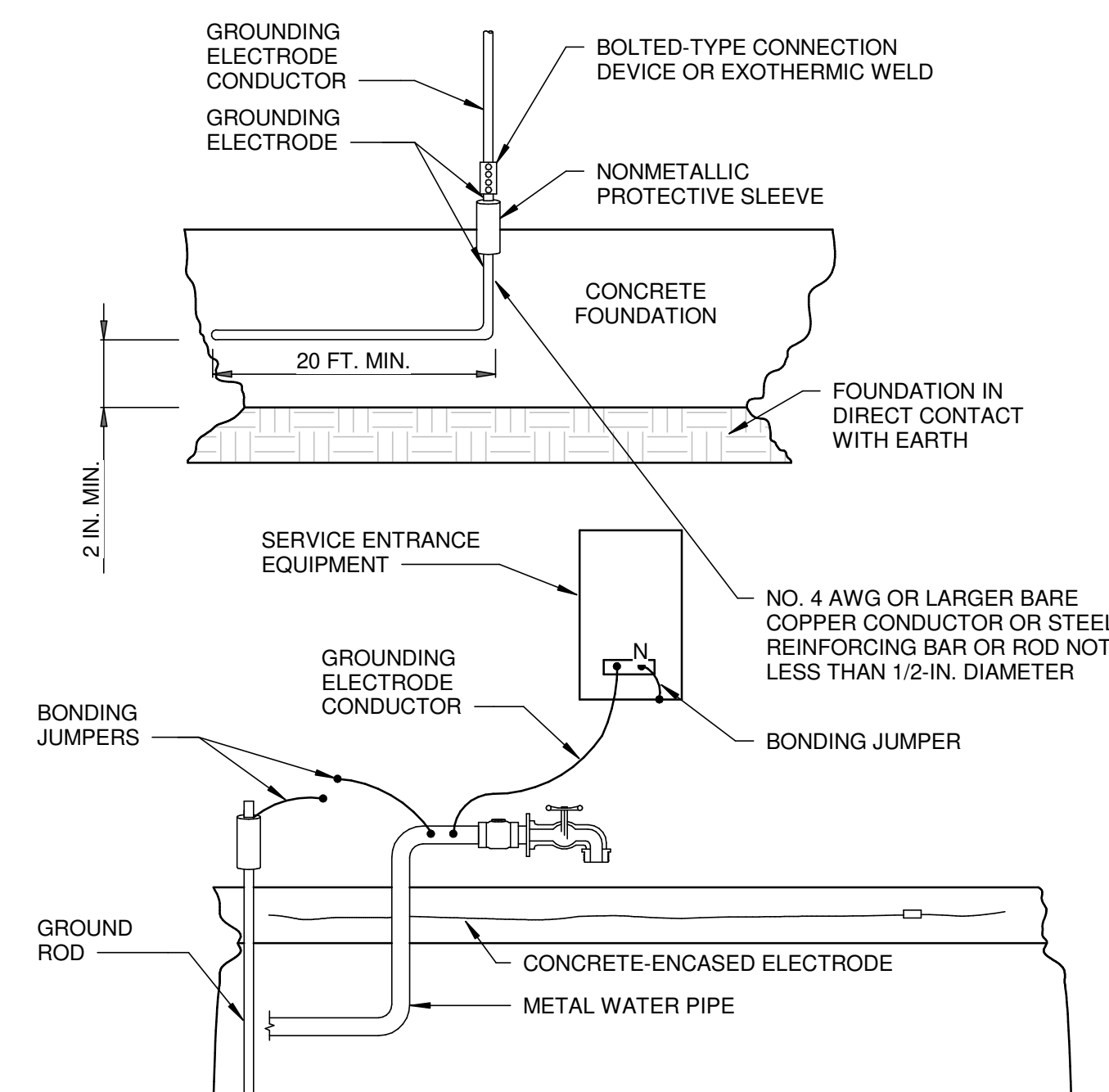


1. FLUSH MOUNTED INFORMATION OUTLET: 1 BOX, 2 JACKS, 2 CABLES, 1 CONDUIT PER INFORMATION OUTLET ROUTE UP THROUGH WALL AND STUB ABOVE CEILING. CAP, TAG, AND IDENTIFY ALL CONDUIT. PROVIDE PULLWIRE IN ALL CONDUIT. PULLWIRE TO REMAIN AFTER CABLE INSTALLATION. TWO JACKS AND CABLES UNLESS OTHERWISE NOTED

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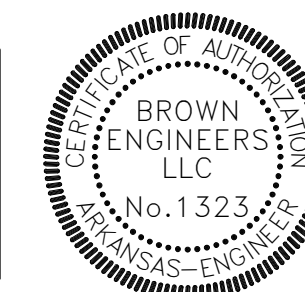


1. INSTALL 1/0 AWG STRANDED BARE SOFT DRAWN COPPER (BSCD) WIRE AND BOND GROUND TO REINFORCING STEEL BAR IN CONCRETE STRUCTURE FOOTING.
2. MAKE ALL CONNECTIONS USING EXOTHERMIC WELDING (CADWELD) PROCESS
3. INSTALL 3/4" CONDUIT WITH (1)-#1/0 AWG COPPER GROUNDING ELECTRODE CONDUCTOR BETWEEN BUILDING STEEL COLUMN AND GROUND. REMOVE PAINT DOWN TO BARE AND BOND GROUND TO STEEL WITH MECHANICAL LUG. REPAINT AFTER INSTALLATION IS COMPLETE.

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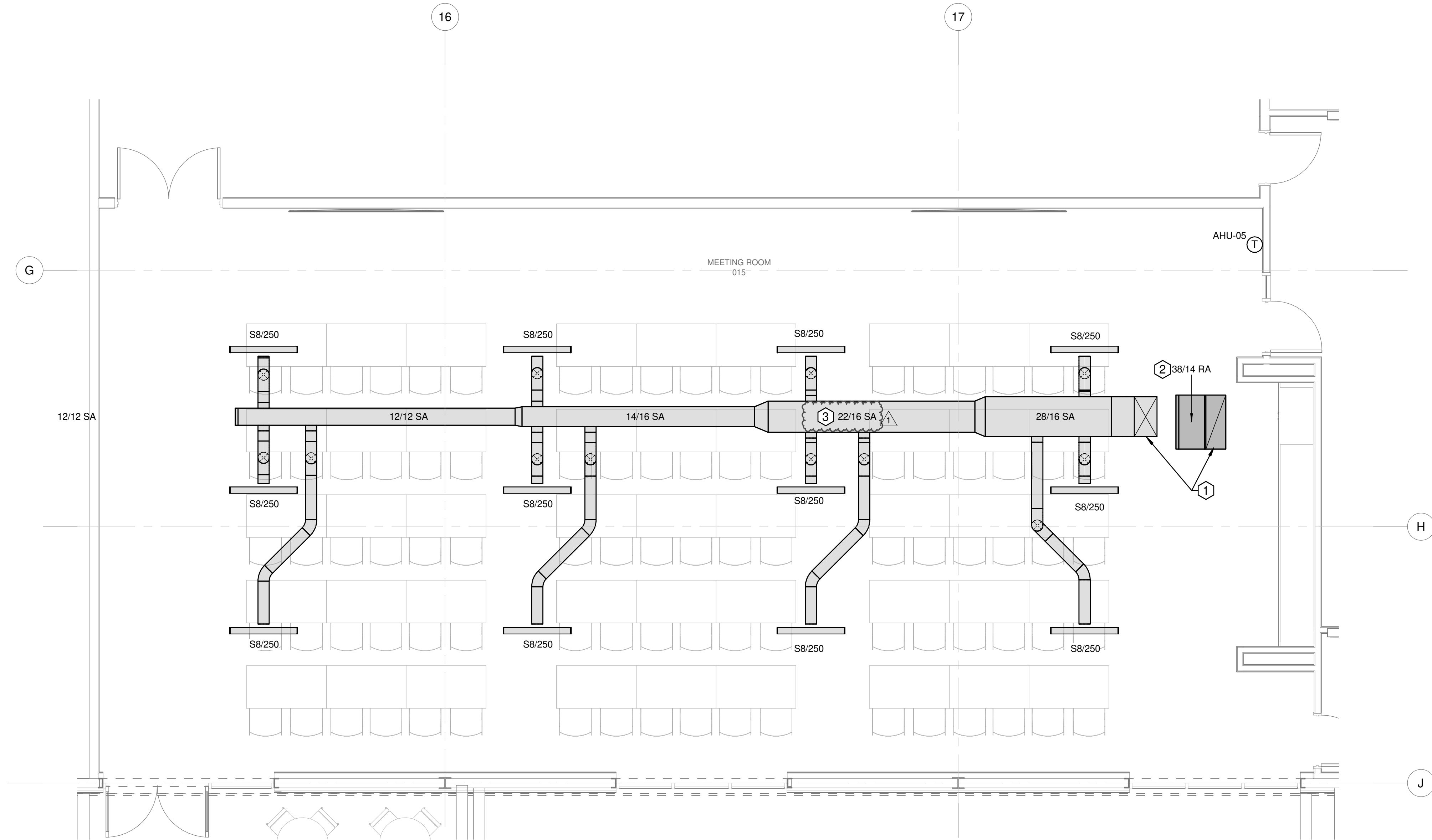
HVAC -- BRANCH DUCT CONNECTION SIZES			
**Note: For Rectangular Ducts, shortest dimension reflects depth unless otherwise noted on plans.			
DESIGNATION	INLET Ø	INLET HT.	INLET W.
S1	6"		
S2	6"		
S3	8"		
S4	10"		
S5		3"	10"
S6		12"	18"
S7	6"		
S8	8"		
R1		10"	22"
R2		22"	22"
R3		6"	10"
R4		6"	36"

GENERAL NOTES:

1. THERMOSTATS SHALL BE MOUNTED NEXT TO LIGHT SWITCH OF ASSOCIATED ROOM PER ADA REQUIREMENTS. ALIGN TOP OF THERMOSTAT WITH TOP OF LIGHT SWITCH FACE PLATE.
2. MOUNT ALL WALL-MOUNTED MINI-SPLIT FAN COILS AT APPROX. 8'-0" A.F.F. ADJUST HEIGHT AS REQUIRED FOR COORDINATION WITH OTHER SYSTEMS IN ROOM.
3. PROVIDE MANUAL BALANCING DAMPERS AT EACH TAKEOFF AND FINAL TRANSITION FROM DUCT MAIN. REFER TO MECHANICAL DETAILS FOR FURTHER REQUIREMENTS.
4. ALL EXPOSED DUCT IN INTERIOR SPACES SHALL BE LINED AND SUITABLE FOR PAINTING. COORDINATE FINISH WITH ARCHITECT.
5. ALL THERMOSTATS, INCLUDING THOSE ASSOCIATED WITH MINI-SPLITS, SHALL BE HARD-WIRED AND WALL-MOUNTED. ADJUST LINEAR SLOT DIFFUSERS FOR VERTICAL THROW.
- 6.

KEYED NOTES:

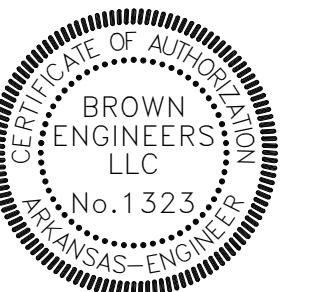
1. UP TO AHU ON ROOF.
2. INSTALL LINED RETURN DUCT AT 19'-0" AFF. PROVIDE 38/14 OPENING WITH EXPANDED METAL FACE ON TOP OF DUCT. ROUTE LINED SUPPLY DUCT MAIN BELOW STRUCTURE AT 17'-0" AFF. CONCEAL BRANCH DUCT RUNOUTS ABOVE SUSPENDED CEILING PANELS.
- 3.



1 ENLARGED HVAC PLAN - MEETING ROOM
1/4" = 1'-0"



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HVAC -- AHU - PACKAGED SCHEDULE

DESIGNATION		DESCRIPTION	MANUFACTURER	MODEL	AIRFLOWS		SUPPLY FAN		NOMINAL COOLING	NET TOTAL COOLING	NET SENSIBLE COOLING	COOLING DATA		HEATING DATA		HEATING DATA		ELECTRICAL DATA						
TYPE	MARK				SUPPLY AIR	OUTSIDE AIR (MINIMUM)	EXTERNAL STATIC PRESS.	(QTY) @ HP				(QTY) @ BHP	ENTERING	LEAVING	TYPE	HEAT PUMP CAPACITY @ 17° F	ELEC HEAT	VOLTAGE	PHASE	MCA	MOCP	REMARKS		
AHU	01	STANDARD HEAT PUMP AIR HANDLING UNIT	TEMPMASTER	WN060C00A2BQAA5A1	1,900 CFM	330 CFM	0.91 in-wg	(1) @ 1.0	(1) @ 0.98	5.0 ton	55,400 Btu/h	40,300 Btu/h	79 °F	65 °F	58 °F	55 °F	HEAT PUMP + AUX ELEC	31,800 Btu/h	20 kW	480 V	3	14.6 A	20 A	1.4,5,6,7
AHU	02	STANDARD HEAT PUMP AIR HANDLING UNIT	TEMPMASTER	WN048C00A2BQAA5A1	1,750 CFM	150 CFM	0.83 in-wg	(1) @ 1.0	(1) @ 0.83	4.0 ton	48,500 Btu/h	35,300 Btu/h	77 °F	64 °F	57 °F	54 °F	HEAT PUMP + AUX ELEC	26,000 Btu/h	20 kW	480 V	3	11.0 A	15 A	2.4,5,6,7
AHU	03	HIGH OUTDOOR AIR HEAT PUMP AIR HANDLING UNIT	AAON	RQ-005-A-A-8-FJB02-A03MB	1,200 CFM	540 CFM	1.05 in-wg	(1) @ 1.0	(1) @ 0.65	5.0 ton	57,400 Btu/h	39,900 Btu/h	86 °F	70 °F	53 °F	53 °F	HEAT PUMP + AUX ELEC	33,900 Btu/h	15 kW	480 V	3	35.0 A	35 A	3.4,5,6,7
AHU	04	HIGH OUTDOOR AIR HEAT PUMP AIR HANDLING UNIT	AAON	RQ-005-A-A-8-FJB02-A03MB	1,200 CFM	530 CFM	1.05 in-wg	(1) @ 1.0	(1) @ 0.65	5.0 ton	57,200 Btu/h	39,800 Btu/h	86 °F	70 °F	53 °F	53 °F	HEAT PUMP + AUX ELEC	33,900 Btu/h	15 kW	480 V	3	35.0 A	35 A	3.4,5,6,7
AHU	05	HIGH OUTDOOR AIR HEAT PUMP AIR HANDLING UNIT	AAON	RNA-013-B-A-8-GJB0B-A05NA	3,000 CFM	1,400 CFM	1.05 in-wg	(1) @ 3.0	(1) @ 1.46	13.0 ton	154,300 Btu/h	105,400 Btu/h	87 °F	70 °F	52 °F	52 °F	HEAT PUMP + AUX ELEC	83,100 Btu/h	45 kW	480 V	3	67.0 A	80 A	3.4,5,6,7

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- PROVIDE TWO-STAGE R-454B HEAT PUMP WITH TWO-STAGE ELECTRIC AUXILLIARY HEAT, SUPPLY FAN VFD, AND DUAL ENTHALPY ECONOMIZER.
- PROVIDE SINGLE-STAGE R-454B HEAT PUMP WITH TWO-STAGE ELECTRIC AUXILLIARY HEAT AND SUPPLY FAN VFD.
- PROVIDE TWO-STAGE R-454B HEAT PUMP WITH MODULATING ELECTRIC AUXILLIARY HEAT, ECM SUPPLY FAN, AND DUAL ENTHALPY ECONOMIZER.
- PROVIDE SEISMICALLY CERTIFIED AND WIND RATED DOWNFLOW EQUIPMENT CURB SYSTEMS.
- PROVIDE WITH FIELD POWERED CONVENIENCE OUTLET, INTEGRAL DISCONNECT, DOUBLE WALL CONSTRUCTION, AND STAINLESS STEEL DRAIN PAN.
- PROVIDE MERV 13- 2" PLEATED FILTERS. PROVIDE EXTRA SET OF FILTERS PER UNIT TO OWNER UPON PROJECT COMPLETION.
- PROVIDE WITH BAROMETRIC RELIEF DAMPER.

HVAC -- DUCTLESS SPLIT CONDENSER SCHEDULE

DESIGNATION		DESCRIPTION	MANUFACTURER	MODEL	ELECTRICAL DATA			
TYPE	MARK				VOLTAGE	PHASE	MCA	MOCP
DSCU	01	24 MBH INVERTER HEAT PUMP	SAMSUNG	AC024DXSCCG/AA	208 V	1	26.7 A	30.0 A

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- OUTDOOR UNIT SHALL BE PROVIDED WITH DISCONNECT SWITCH, SEE ELECTRICAL.
- CONDENSER SHALL BE PROVIDED WITH LOW AMBIENT COOLING.
- CONDENSING UNIT AND INDOOR UNIT SHALL BE PROVIDED FROM SAME MANUFACTURER, AND BE FULLY COMPATIBLE WITH EACH OTHER.
- PROVIDE BASIS OF DESIGN EQUIPMENT OR APPROVED ALTERNATE.

HVAC -- DUCTLESS SPLIT FAN COIL SCHEDULE

DESIGNATION		DESCRIPTION	MANUFACTURER	MODEL	NOMINAL CAPACITY		ELECTRICAL DATA	
TYPE	MARK				TOTAL COOLING	HEATING	VOLTAGE	PHASE
DSFC	01	WALL HUNG FAN COIL	SAMSUNG	AC024DNADCG/AA	24,000 Btu/h	27,000 Btu/h	208 V	1

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- INDOOR UNIT SHALL BE POWERED THROUGH CONDENSER
- ROUTE CONDENSATE DRAIN FULL SIZE AND DISCHARGE TO JANITOR MOPSINK PER MANUFACTURER'S RECOMMENDATION
- CONDENSING UNIT AND INDOOR UNIT SHALL BE PROVIDED FROM SAME MANUFACTURER, AND BE FULLY COMPATIBLE WITH EACH OTHER.
- PROVIDE BASIS OF DESIGN EQUIPMENT OR APPROVED ALTERNATE.

HVAC -- AIR TERMINAL SCHEDULE

MARK	MANUFACTURER	MODEL	DESCRIPTION	AIRFLOW DATA	INLET SIZE			FACE SIZE		MAX. NOISE CRITERIA	OPTIONS		
				MAX FLOW	DIAMETER	WIDTH	LENGTH	W	L		FACE STYLE	DAMPER STYLE	MATERIAL
S1	Titus	OMNI-06-1-12x12-26	ALUMINUM SQUARE PLAQUE DIFFUSER	180 CFM	6			12"	12"	25	PLAQUE	OPOSED BLADE	ALUMINUM
S2	Titus	OMNI-06-1-24x24-26	SQUARE PLAQUE DIFFUSER	215 CFM	6			24"	24"	25	PLAQUE	OPOSED BLADE	STEEL
S3	Titus	OMNI-08-1-24x24-26	SQUARE PLAQUE DIFFUSER	350 CFM	8			24"	24"	25	PLAQUE	OPOSED BLADE	STEEL
S4	Titus	OMNI-10-1-24x24-26	SQUARE PLAQUE DIFFUSER	505 CFM	10			24"	24"	25	PLAQUE	OPOSED BLADE	STEEL
S5	Titus	S300FL	SPIRAL DUCT MOUNTED SUPPLY GRILLE	150 CFM		10"	3"	12"	5"	0	DOUBLE DEFLECTION BLADES	AIR SCOOP	ALUMINUM
S6	Titus	300FL	ADJUSTABLE DOUBLE DEFLECTION SIDEWALL SUPPLY GRILLE	840 CFM		18"	12"	20"	14"	25	DOUBLE DEFLECTION BLADES	OPOSED BLADE	ALUMINUM
S7	Titus	TBDI-80	INSULATED PLENUM SLOT DIFFUSER, 1- SLOT, 1" SLOT WIDTH	100 CFM	6			3"	24"	25	ADJUSTABLE GASKET TIPPED BLADE	INTEGRAL	STEEL
S8	Titus	TBDI-80	INSULATED PLENUM SLOT DIFFUSER, 2-SLOT, 1" SLOT WIDTH	200 CFM	8			5"	48"	25	ADJUSTABLE GASKET TIPPED BLADE	INTEGRAL	STEEL
R1	Titus	50F	EGGCRATE RETURN GRILLE	960 CFM		22"	10"	24"	12"	25	EGGCRATE	OPOSED BLADE	ALUMINUM
R2	Titus	50F	EGGCRATE RETURN GRILLE	2,200 CFM		22"	22"	24"	24"	25	EGGCRATE	OPOSED BLADE	ALUMINUM
R3	Titus	350FL	35° DEFLECTION SIDEWALL RETURN GRILLE	230 CFM		10"	6"	12"	8"	25	HORIZONTAL DEFLECTION BLADES	OPOSED BLADE	ALUMINUM
R4	Titus	350FL	35° DEFLECTION SIDEWALL RETURN GRILLE	810 CFM		36"	6"	38"	8"	25	HORIZONTAL DEFLECTION BLADES	OPOSED BLADE	ALUMINUM

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- CONTRACTOR SHALL PROVIDE ALL AIR DISTRIBUTION DEVICES WITH MANUFACTURER'S MOUNTING SYSTEM FOR CEILINGS ON WHICH DEVICE SHALL BE MOUNTED.
- CONTRACTOR SHALL SUBMIT MANUFACTURER'S COLOR OPTIONS TO ARCHITECT BEFORE ORDERING AIR DISTRIBUTION DEVICES.

HVAC -- ELECTRIC UNIT HEATER SCHEDULE

DESIGNATION		DESCRIPTION	MANUFACTURER	MODEL	MOUNTING	ELECTRICAL DATA			COMMENTS
TYPE	MARK					VOLTAGE	PHASE	WATTAGE	
UH	01	ELECTRIC UNIT HEATER	QMARK	CWH1202DSAF	RECESSED MOUNT	120 V	1	0.5 kW	PROVIDE SHEDULED BASIS OF DESIGN EQUIPMENT OR APPROVED EQUAL WITH INTEGRAL THERMOSTAT. MOUNT 18" A.F.F.

HVAC -- EXHAUST FAN SCHEDULE

DESIGNATION		MANUFACTURER	MODEL	LOCATION		EXHAUST AIR CFM	EXTERNAL STATIC PRESSURE	ELECTRIC MOTOR DATA					SOUND LEVEL (SONES)
TYPE	MARK			ROOM	NUMBER			DRIVE	RPM	VOLTAGE	PHASE	MOTOR WATTS	
EF	01	GREENHECK	SP-A390	WOMENS RESTROOM	017	350 CFM	0.25 in-wg	DIRECT	1302	120 V	1	170 W	4.0
EF	02	GREENHECK	SP-A390	MENS RESTROOM	019	350 CFM	0.25 in-wg	DIRECT	1302	120 V	1	170 W	4.0
EF	03	GREENHECK	SP-B150	SINGLE RESTROOM	018	150 CFM	0.25 in-wg	DIRECT	1025	120 V	1	216 W	3.0

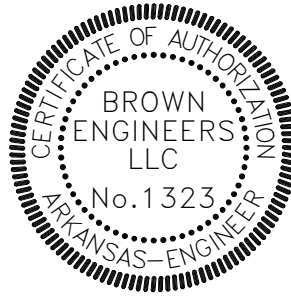
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- EXHAUST FANS SHALL BE PROVIDED WITH SOLID STATE SPEED CONTROLLER, DISCHARGE BACKDRAFT DAMPER AND DISCONNECT SWITCH.
- EXHAUST FANS SHALL BE PROVIDED WITH MANUFACTURER'S METAL GRILLE.
- EXHAUST FANS SHALL BE PROVIDED WITH MANUFACTURER'S ISOLATOR KIT.
- EXHAUST FANS SHALL BE SUPPORTED BY STRUCTURE BY MEANS OF ALL THREAD RODS AND MANUFACTURER'S MOUNTING BRACKETS.
- EXHAUST FANS SHALL BE INTERLOCKED WITH LIGHT SWITCH OF ROOM THE FAN SERVES.
- PROVIDE MANUFACTURER ROOF DISCHARGE ACCESSORY EQUAL TO GREENHECK RJ-6X9.
- PROVIDE SCHEDULED BASIS OF DESIGN EQUIPMENT OR APPROVED EQUAL.



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100% CONSTRUCTION DOCUMENTS

04.18.2025

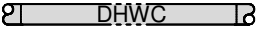
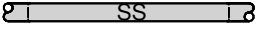
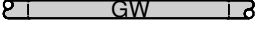
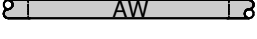
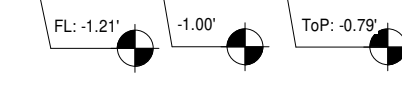
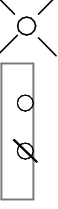
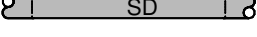
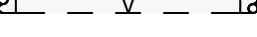
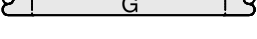
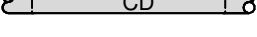
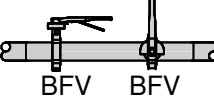
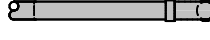
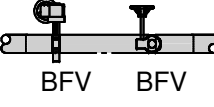
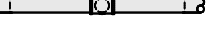
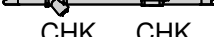
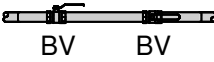
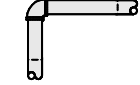
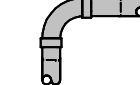
MECHANICAL SCHEDULES

M4.0

UACCB GATEWAY CENTER FARM

2210 E. Main Street, Batesville, AR

PLUMBING LEGEND

ABBREVIATION OR SYMBOL	DESCRIPTION	ABBREVIATION OR SYMBOL	DESCRIPTION	ABBREVIATION OR SYMBOL	DESCRIPTION
	DOMESTIC COLD WATER		FLEXIBLE PIPING		ABOVE FINISH FLOOR
	DOMESTIC HOT WATER		EXISTING PIPING TO REMAIN (refer to line designation)		ABOVE FINISH GRADE
	DOMESTIC HOT WATER RETURN		EXISTING TO BE REMOVED (back to point indicated)		FINISH FLOOR ELEVATION
	SANITARY SEWER		CONNECT TO EXISTING		PRESSURE REDUCING VALVE
	SANITARY - GREASE WASTE		BELOW GRADE PIPING (fine dash)		TOP OF PIPE
	SANITARY - ACID WASTE		PIPE ELEVATION CALLOUTS		PIPE PENETRATION (through floor/wall/etc)
	STORM DRAIN				DCW ROUGH-IN
	VENT				DHW ROUGH-IN
	NATURAL GAS				
	CONDENSATE DRAIN				
VALVING					
	BUTTERFLY VALVE (lever operator)		PIPE DOWN		PIPE DOWN
	BUTTERFLY VALVE (wheel operator)		PIPE UP		PIPE UP
	GATE VALVE		THREADED TEE DOWN		PIPE WYE DOWN
	CHECK VALVE		THREADED TEE UP		PIPE WYE UP
	PLUG VALVE		BRANCH - BOTTOM OF PIPE		BRANCH - BOTTOM OF PIPE
	STRAINER (Y-TYPE)		BRANCH - TOP OF PIPE		BRANCH - TOP OF PIPE
	BALL VALVE		90 DEGREE ELBOW		ELBOW

SEISMIC DESIGN NOTES:

- BUILDING RISK CATEGORY: **CATEGORY II**
- SEISMIC DESIGN CATEGORY: **D**
- DISTRIBUTED PLUMBING SYSTEMS AND EQUIPMENT OF SUFFICIENT SIZE OR WEIGHT, AS DEFINED BY ASCE 7 CHAPTER 13, SHALL BE PROVIDED WITH SEISMIC SUPPORTS. WATER HEATERS OF ALL SIZES SHALL BE PROVIDED WITH SEISMIC RESTRAINT STRAP, SECURED TO STRUCTURE.
- PROVIDE FLEXIBLE CONNECTIONS BETWEEN PIPING SYSTEMS AND MECHANICAL EQUIPMENT.
- FINAL DETERMINATION OF SEISMIC DESIGN PARAMETER SHALL BE PER STRUCTURAL DOCUMENTS.

PLUMBING GENERAL NOTES:

- ALL PLUMBING WORK SHALL COMPLY WITH ALL LOCAL CODES, AUTHORITIES HAVING JURISDICTION, DRAWINGS AND SPECIFICATIONS. IF DISCREPANCIES ARE FOUND - THE MOST STRINGENT REQUIREMENT SHALL GOVERN WORK.
- ALL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRIC RELATIONSHIPS OF EQUIPMENT AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, FITTING, OR COMPONENT. CONTRACTOR SHALL NOT SCALE DRAWINGS. EQUIPMENT SCHEDULES SHALL TAKE PRECEDENCE OVER CONFLICTING DRAWING INFORMATION. DRAWINGS SPECIFIC TO THIS DISCIPLINE DO NOT LIMIT THE RESPONSIBILITY OF WORK REQUIRED BY CONTRACT DOCUMENTS. REFER TO COMPLETE PROJECT DOCUMENTS FOR COORDINATION WITH OTHER DISCIPLINES.
- EXCEPT WHERE MODIFIED BY SPECIFIC NOTATION TO THE CONTRARY, IT SHALL BE UNDERSTOOD THAT THE INDICATION AND/OR DESCRIPTION OF ANY ITEM IN THE DRAWINGS OR SPECIFICATIONS CARRIES WITH IT THE INSTRUCTION TO PROVIDE THE ITEM, REGARDLESS OF WHETHER OR NOT THIS INSTRUCTION IS EXPLICITLY STATED AS PART OF THE INDICATION OR DESCRIPTION.
- REFER TO PLUMBING SCHEDULES AND SPECIFICATIONS FOR BASIS OF DESIGN, ACCEPTABLE MANUFACTURERS, AND MODELS OF PLUMBING FIXTURES AND EQUIPMENT.
- PROVIDE CLEANOUTS IN ALL SANITARY LINES, WHETHER SHOWN OR NOT, AT INTERVALS NOT TO EXCEED 100' AND AT EACH CHANGE IN DIRECTION GREATER THAN 45 DEGREES.
- PROVIDE A TWO-WAY CLEANOUT AT THE JUNCTION OF ALL BUILDING DRAINS AND BUILDING SEWERS.
- REFER TO SPECIFICATIONS FOR INSULATION REQUIREMENTS.
- ALL SANITARY SEWER LINES 2 1/2" AND SMALLER SHALL HAVE A MINIMUM SLOPE OF 1/4" PER FOOT. ALL SANITARY LINES 3" AND LARGER SHALL HAVE A MINIMUM SLOPE OF 1/8" PER FOOT. VERIFY EXISTING SANITARY LINE ELEVATIONS AND COORDINATE INSTALLATION TO ASSURE PROPER FLOW. ALL GREASE WASTE LINES, REGARDLESS OF SIZE, SHALL HAVE A MINIMUM SLOPE OF 1/4" PER FOOT.
- SEAL ALL PIPE PENETRATIONS THROUGH WALLS, ROOF, AND FLOOR AIR AND WATER TIGHT.
- ALL FLOOR DRAINS SHALL HAVE DEEP SEAL TRAPS, 4" DEEP SEAL MINIMUM UNLESS NOTED OTHERWISE. PROVIDE A TRAP GUARD EQUAL TO PROSET OR SURE SEAL SIZED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS FOR ALL FLOOR DRAINS.
- ALL PIPE DROPS FROM CEILING PLENUM TO BELOW FLOOR SHALL BE MADE IN FURR-OUTS AT COLUMNS, IN WEBB OF BEAMS AT COLUMNS, OR IN WALLS UNLESS SHOWN OTHERWISE.
- ALL EXPOSED OR ACCESSIBLE P-TRAPS SHALL BE CHROME PLATED AND PROVIDED WITH BOTTOM CLEANOUT PLUGS. ALL EXPOSED PLUMBING TRIM SHALL BE CHROME PLATED.
- PROVIDE TIGHT-FITTED MOLDED PLASTIC INSULATION AT ALL EXPOSED WATER AND DRAIN PIPING FOR ADA FIXTURES PER ANSI A117.1 AND ADA REQUIREMENTS. FINISH SHALL BE WHITE.
- ALL DOMESTIC WATER SHALL BE ROUTED ABOVE CEILING. ALL DOMESTIC WATER ROUTED IN EXTERIOR WALLS SHALL BE INSTALLED ON CONDITIONED SIDE OF ROOM INSULATION.
- MAINTAIN A MINIMUM OF 10'-0" BETWEEN ALL HVAC FRESH AIR INTAKES AND PLUMBING VENTS. COORDINATE WITH MECHANICAL BEFORE INSTALLATION OF VTRs.
- CONTRACTOR SHALL VISIT SITE AND VERIFY CONDITIONS PRIOR TO BIDDING.
- CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF UTILITIES AND INVERTS PRIOR TO ROUTING SERVICES. CONTRACTOR SHALL COORDINATE ALL SANITARY SEWER, FIRE, GAS AND DOMESTIC WATER LINES WITH EXISTING UTILITIES AND WITH CIVIL DRAWINGS. SEE CIVIL DRAWINGS FOR CONTINUATION OF ALL UTILITY LINES.
- CONTRACTOR SHALL PAY ALL UTILITY FEES AND CHARGES IN THE CONTRACT.
- PROVIDE ALL FITTINGS, TRANSITIONS, COUPLINGS, ADAPTORS, UNIONS, AND OTHER ACCESSORIES NEEDED TO COMPLETE CONNECTIONS AND PROVIDE FOR PROPER OPERATION OF PLUMBING FIXTURES AND PLUMBING EQUIPMENT.
- FIRE STOP ALL PIPE PENETRATIONS THROUGH RATED WALLS. REFER TO SPECIFICATIONS.
- PIPING SHALL NOT BE ROUTED OVER ELECTRICAL ROOMS, COMPUTER ROOMS, ELECTRICAL PANELS, OR ELECTRICAL EQUIPMENT UNLESS OTHERWISE NOTED.
- PROVIDE LEAD-FREE PRESSURE REDUCING VALVE AT DOMESTIC ENTRANCE TO PROVIDE ADEQUATE PRESSURE AT ALL OUTLETS IN ACCORDANCE WITH THE SYSTEM REQUIREMENTS.
- EACH FIXTURE GROUP OR BATTERY OF FIXTURES SHALL BE PROVIDED WITH A SHUTOFF VALVE IN THE DOMESTIC HOT AND COLD WATER SUPPLY LINES ABOVE CEILING. VALVES SHALL BE ACCESSIBLE FROM ROOM BELOW.
- PAINT EXPOSED PIPING AND PIPE INSULATION. COORDINATE WITH OWNER FOR FINAL COLOR.
- ALL UNDER FLOOR WATER PIPING SHALL BE PROVIDED WITH A POLYETHYLENE SLEEVE. EXTEND SLEEVE UP THROUGH FLOOR SLAB AND SEAL AIR AND WATER TIGHT.
- PLASTIC PIPE IS PROHIBITED IN RETURN AIR PLENUMS. ALL PIPING AND PIPE CONNECTIONS IN RETURN AIR PLENUMS SHALL BE PLENUM RATED.
- PIPING THROUGH FOUNDATION WALLS AND FOOTINGS SHALL BE SLEEVED AS PER STRUCTURAL DETAILS.
- ALL PIPE CONNECTIONS BETWEEN DISSIMILAR METALS SHALL BE MADE THROUGH DIELECTRIC UNIONS.
- ALL PLUMBING COMPONENTS WITH ELECTRICAL REQUIREMENTS SHALL BE INSTALLED WITH THE ELECTRICAL INFRASTRUCTURE NECESSARY TO PROVIDE A FULLY FUNCTIONING SYSTEM. IF NOT SPECIFICALLY SHOWN ON ELECTRICAL SCHEDULE, PLUMBING FIXTURES REQUIRING ELECTRICAL SERVICE SHALL BE FED FROM BREAKER OF ADEQUATE CAPACITY.
- REFER TO PLUMBING SPECIFICATIONS FOR PIPE MATERIAL AND INSULATION REQUIREMENTS.
- EXACT LOCATION OF ALL EQUIPMENT AND PIPING SHALL BE COORDINATED WITH OTHER TRADES. CEILING MOUNTED SPRINKLER AND LIGHTING SHALL TAKE PRECEDENCE OVER CEILING MOUNTED MECHANICAL REQUIREMENTS.
- PROVIDE FABRICATED EXPANSION LOOP OR MANUFACTURED EXPANSION DEVICE ON ALL PIPING SYSTEMS CROSSING BUILDING EXPANSION JOINTS.
- WATER SUPPLY CONNECTIONS TO COFFEE MACHINES AND NONCARBONATED BEVERAGE DISPENSERS SHALL BE PROVIDED WITH A BACKFLOW PREVENTER OR AN AIR GAP.

PLUMBING -- FIXTURE SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL	ACCESSORIES	FAUCETS & FITTINGS	STOPS	TRAPS	MOUNTING	BRANCH CONNECTIONS			REMARKS
									DCW	DHW	SS	
COTG	CLEAN OUT TO GRADE	ZURN	Z1400	-	-	-	-	AT GRADE			4"	SHALL BE PROVIDED WITH HEAVY DUTY TOP.
FD1	FLOOR DRAIN, SQUARE	ZURN	Z415-3IP-6S	TRAP GUARD	6" SQUARE N.B. STRAINER	-	P-TRAP	FLOOR			2"	STRAINER SHALL BE HEEL-PROOF
FD2	FLOOR DRAIN, ROUND	ZURN	Z415BZ-DP	TRAP GUARD	5" ROUND STRAINER (POLISHED)	-	P-TRAP	FLOOR			2"	
FPWH	EXPOSED WALL HYDRANT - EXTERIOR	ZURN	Z1321XL	-	-	BALL VALVE	-	WALL	3/4"			SHALL BE FREEZE-PROOF, SELF-DRAINING, KEY OPERATED, AND ANTI-SIPHON.
FS	8x8 FLOOR SINK - 6" DEPTH	ZURN	ZN1910	PROSET TRAP GUARD	N.B. FRAME AND 1/2 GRATE	-	P-TRAP	FLOOR			4"	SHALL HAVE ACID-RESISTANT COATING
P1	WALL HUNG WATER CLOSET - ADA	ZURN	Z5616	WALL CARRIER; SEAT	Z6000AV (1.6GPF MANUAL FLUSH VALVE)	INTEGRAL	INTEGRAL	WALL	1"		4"	WALL CARRIER SHALL BE RATED FOR 500LB. MINIMUM.
P2	URINAL	ZURN	Z5755-U	WALL CARRIER	Z6003PL-EWS (0.5GPF MANUAL FLUSH VALVE)	INTEGRAL	INTEGRAL	WALL	3/4"		2"	
P3	LAVATORY - SQUARE UNDERMOUNT - ADA	KOHLER	K-5400	GRID DRAIN; HARDWIRED POWER CONVERTER	ZURN ZG6950-N-CWB (0.5GPM HARDWIRED SENSOR FAUCET)	MCGUIRE COMMERCIAL	MCGUIRE COMMERCIAL	UNDERMOUNT	1/2"	1/2"	1 1/2"	SHALL BE SUITABLE FOR ROLL-UNDER ADA CLEARANCES.
P4	SINK - SINGLE COMPARTMENT - 7.5" DEEP	JUST MFG.	US-1818-A	BASKET STRAINER; BADGER 5XP GARBAGE DISPOSAL	JPO-250 (FAUCET W/PULL DOWN SPRAY)	MCGUIRE COMMERCIAL	MCGUIRE COMMERCIAL	UNDERMOUNT	1/2"	1/2"	2"	SHALL BE SUITABLE FOR ROLL-UNDER ADA CLEARANCES.
P5	BI-LEVEL WATER COOLER	ELKAY	EZSTL8WSSK	BOTTLE FILLER	-	MCGUIRE COMMERCIAL	MCGUIRE COMMERCIAL	WALL	1/2"		2"	
P6	MOP SINK	ZURN	Z1996-24	MOP HANGER; HOSE AND HOSE BRACKET; STAINLESS STEEL SPLASH GUARD; GRID DRAIN	SERVICE FAUCET W/VACUUM BREAKER	INTEGRAL	CAST IRON	FLOOR	1/2"	1/2"	3"	
P7	SHOWER	CHICAGO FAUCETS	SH-TP1-01-000			INTEGRAL	-	WALL	1/2"	1/2"	2"	PROVIDE WITH THERMOSTATIC MIXING VALVE. SHOWER HEAD SHALL BE MOUNTED AT APPROXIMATLY 80" AFF.
P8	SHOWER - ADA	CHICAGO FAUCETS	SH-TP1-01-000	24" WALL MOUNT SLIDE BAR	SH-TP1-00-021 (2.5GPM HAND SPRAY)	INTEGRAL	-	WALL	1/2"	1/2"	2"	SHALL BE ADA COMPLIANT. PROVIDE WITH THERMOSTATIC MIXING VALVE. SHOWER HEAD SHALL BE MOUNTED AT APPROXIMATLY 80" AFF.
RH	ROOF HYDRANT	ZURN	Z1388	VACUUM BREAKER	-	-	-	ROOF	3/4"		1/2"	PROVIDE 1/2" DRAIN LINE DISCHARGING LOW ON EXTERIOR WALL.
WB	MINI-ICE MAKER WALL BOX - QTR TURN	GUY GRAY	MIB2HAAB	HAMMER ARRESTER	1/4 TURN VALVE	-	-	WALL	1/2"			
1 ALL FIXTURES SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION. 2 CONTRACTOR IS RESPONSIBLE FOR COORDINATING FAUCET SPACING AND STYLE WITH MOUNTING HOLES IN FIXTURE. 3 ALL FIXTURES WITH HOT WATER FEEDS SHALL BE PROVIDED WITH THERMOSTATIC MIXING VALVE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION. HANDWASH FIXTURES SHALL HAVE TMVs SET TO 110°F. 4 CONTRACTOR SHALL INSTALL ALL PLUMBING FIXTURES IN COMPLIANCE WITH ALL APPLICABLE CODES AND ALL AUTHORITIES HAVING JURISDICTION.												

PLUMBING -- WATER HEATER SCHEDULE

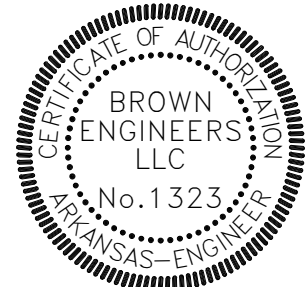
TAG	MARK	DESCRIPTION	MANUFACTURER	MODEL	MOUNTING	TANK VOLUME	BRANCH CONNECTIONS		SYSTEM TEMPERATURES			ELECTRICAL DATA			REMARKS
							DCW	DHW	DESIGN EWT	TANK STORAGE SETPOINT	DESIGN LWT	VOLTAGE (V)	PHASE	WATTAGE	
WH	1	COMMERCIAL ELECTRIC WATER HEATER	A.O. SMITH	DRE-80	FLOOR STAND	80 gal	3/4"	3/4"	50 °F	140 °F	120 °F	480 V	3	12.3 kW	PROVIDE WITH DIGITAL MIXING VALVE, REFER TO WATER HEATER DETAIL.
1 PROVIDE WATER HEATER WITH EXPANSION TANK EQUAL TO WATTS PLT, SIZED FOR TOTAL SYSTEM VOLUME OF 60gal. SUPPORT TANK FROM MOUNTING BRACKET EQUAL TO HOLD-RITE 'QUICKSTRAP'.															
3 PROVIDE PRE-PIPED DIGITAL THERMOSTATIC MASTER MIXING VALVE EQUAL TO LEONARD PROTON SERIES. MIXING VALVE SHALL BE SIZED FOR PRESSURE DROP OF 5psi, 7.5gpm PEAK FLOW. SET SYSTEM TEMPERATURES PER WATER HEATER SCHEDULE.															
2 PROVIDE WATER HEATER WITH 16" FLOOR STAND EQUAL TO HOLD-RITE; STAND SHALL BE RATED FOR WATER HEATER WEIGHT WHEN FULL. PROVIDE GALVANIZED STEEL SEISMIC STRAP EQUAL TO HOLD-RITE QUICK STRAP. SECURE STRAP TO STRUCTURE.															

PLUMBING -- PUMP SCHEDULE

DESIGNATION		MANUFACTURER	MODEL	FLOW	TOTAL HEAD	MOTOR RPM	VOLTAGE	PHASE	POWER	REMARKS
RP	1									
		BELL AND GOSSETT	NBF12U	2 GPM	11.0 ftH2O	2800	115 V	1	55 W	CHECK-TROL FLOW CONTROL FLANGE, AQUASTAT, AND TIMER.

FENNELL | PURIFOY
ARCHITECTS

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REVISIONS:
ADD #1 - 04/29/25

100% CONSTRUCTION DOCUMENTS

04.18.2025

PLUMBING NOTES, SCHEDULES, AND LEGENDS

P1.0

UACCB GATEWAY CENTER FARM
2210 E. Main Street, Batesville, AR