DEFINE

MECHANICAL ABBREVIATIONS

AD	ACCESS DOOR
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
APD	AIR PRESSURE DROP
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BTUH	BRITISH THERMAL UNITS PER HOUR
C	CONDENSATE
CFM	CUBIC FEET PER MINUTE
CT	CHILLER
CHS	CHILLED WATER SUPPLY
CHR	CHILLED WATER RETURN
COP	COEFFICIENT OF PERFORMANCE
CT	COOLING TOWER
CU	CONDENSING UNIT
CV	CONSTANT VOLUME
CS	CONDENSER WATER SUPPLY
CR	CONDENSER WATER RETURN
DB	DRY BULB
DOAS	DEDICATED 100% OUTSIDE AIR UNIT
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
ECO	EXTERIOR CLEANOUT
EDH	ELECTRIC DUCT HEATER
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EMS	ENERGY MANAGEMENT SYSTEM
ESP	EXTERNAL STATIC PRESSURE
EUH	ELECTRIC UNIT HEATER
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EWT	ENTERING WATER TEMPERATURE
F	FAHRENHEIT
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FLA	FULL LOAD AMPS
FFE	FINISHED FLOOR ELEVATION
FPI	FINS PER INCH
HP	HORSEPOWER
HWS	HEATING HOT WATER SUPPLY
HWR	HEATING HOT WATER RETURN
KH	KITCHEN HOOD
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MBH	1000 BRITISH THERMAL UNITS PER HOUR
MVD	MANUAL VOLUME DAMPER
N.O.	NORMALLY OPEN
N.C.	NORMALLY CLOSED
NTS	NOT TO SCALE
NC	NOISE CRITERIA
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
PD	PRESSURE DROP
PHWR	PLANT HEATING HOT WATER RETURN
PHWS	PLANT HEATING HOT WATER SUPPLY
PRV	PRESSURE REDUCING VALVE
PSIG	POUNDS PER SQUARE INCH GAGE
RA	RETURN AIR
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP A/C UNIT
SA	SUPPLY AIR
SD	STORM DRAIN
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SF	SUPPLY FAN
SP	STATIC PRESSURE
SWR	SIDE WALL REGISTER
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
VRF	VARIABLE REFRIGERANT FLOW
WB	WET BULB
WG	WATER GAGE
WPD	WATER PRESSURE DROP

DESIGN

MECHANICAL LEGEND

GRILLES, REGISTERS, DIFFUSERS, AND LOUVERS

EXISTING	DEMO	NEW	DESCRIPTION
		A100	GRILLE DESIGNATION AND CFM
			SURFACE MOUNT
			LAY-IN SUPPLY CEILING DIFFUSER
			SUPPLY WALL DIFFUSER
			LINEAR SLOT DIFFUSER
			RETURN/EXHAUST CEILING GRILLE
			RETURN/EXHAUST WALL GRILLE
			EXHAUST LOUVER
			EXHAUST WALL CAP
			GRAVITY RELIEF HOOD
			INTAKE LOUVER
			INTAKE WALL CAP
			GRAVITY INTAKE HOOD

DUCTWORK

EXISTING	DEMO	NEW	DESCRIPTION
			RECTANGULAR DUCTWORK. REFER TO PLANS FOR SIZE.
			ROUND DUCTWORK. REFER TO PLANS FOR SIZE.
			ROUND DUCTWORK DROP/RISE.
			DUCT DROP/RISE

PIPING

EXISTING	DEMO	NEW	DESCRIPTION
CWS	CWS	CWS	CHILLED WATER SUPPLY PIPING
CWR	CWR	CWR	CHILLED WATER RETURN PIPING
HWS	HWS	HWS	HOT WATER SUPPLY PIPING
HWR	HWR	HWR	HOT WATER RETURN PIPING
CS	CS	CS	CONDENSER WATER SUPPLY PIPING
CR	CR	CR	CONDENSER WATER RETURN PIPING

DAMPERS

EXISTING	DEMO	NEW	DESCRIPTION
			BALANCING DAMPER
M	M	M	MOTORIZED DAMPER
FD	FD	FD	FIRE DAMPER
SD	SD	SD	SMOKE DAMPER
FDSD	FDSD	FDSD	FIRE & SMOKE DAMPER

EQUIPMENT

EXISTING	DEMO	NEW	DESCRIPTION
			MECHANICAL EQUIPMENT. REFER TO SCHEDULES
			IONIZATION UNIT
SD	SD	SD	SMOKE DETECTOR
MP	MP	MP	MANUAL PULL STATION

CONTROLS

EXISTING	DEMO	NEW	DESCRIPTION
T	T	T	THERMOSTAT
H	H	H	HUMIDISTAT
S	S	S	SENSOR
P	P	P	STATIC PRESSURE SENSOR
RS	RS	RS	REMOTE TEMPERATURE SENSOR
$	$	$	WALL SWITCH
			CONTROL WIRING

NOTES:
1. EXISTING ITEMS ON DEMO PLANS ARE "EXISTING TO REMAIN" UNLESS NOTED "EXISTING TO BE RELOCATED.
2. ITEMS ON NEW CONSTRUCTION PLANS ARE NEW UNLESS NOTED "RELOCATED FROM PREVIOUS LOCATION".
3. REFER TO SCHEDULES FOR GRILLE, REGISTER, DIFFUSER, AND LOUVER SIZES.
4. REFER TO DRAWINGS FOR DIRECTION OF AIRFLOW FOR DIFFUSERS. IF DIRECTIONAL ARROWS ARE NOT INCLUDED, AIRFLOW IS IN FOUR DIRECTIONS. (4-WAY GRILLE)
5. WALL MOUNTED CONTROL DEVICES SHALL BE MOUNTED AT 48" A.F.F.
6. NOT ALL ITEMS SHOWN ON THIS LIST MAY BE APPLICABLE TO THIS PROJECT.

DELIVER

MECHANICAL GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE AND DETERMINE THE EXTENT OF DEMOLITION WORK AND NEW WORK NEEDED FOR THIS PROJECT, PRIOR TO SUBMITTING BID.
2. CONTRACTOR SHALL BECOME FAMILIAR WITH THE PROJECT SCOPE, CONSTRAINTS, UTILITY CONNECTIONS, AND BUILDING SERVICES, PRIOR TO SUBMITTING BID.
3. CONTRACTOR SHALL GIVE FIRST RIGHT TO REFUSAL OF SALVAGE TO THE OWNER. IF THE OWNER ELECTS TO NOT KEEP SALVAGE, CONTRACTOR SHALL REMOVE SALVAGE BY LAWFUL MEANS.
4. DRAWINGS ARE SCHEMATIC AND DIAGRAMMATIC IN NATURE. DRAWINGS SHALL NOT BE SCALED. COORDINATE ROUTING OF SERVICES WITH SITE CONDITIONS AND WITH WORK OF OTHER TRADES.
5. FIELD VERIFY DIMENSIONS PRIOR TO ORDERING, FABRICATING, AND ERECTION OF MATERIAL AND/OR EQUIPMENT. NOTIFY THE ENGINEER OF DISCREPANCIES IN A TIMELY MANNER.
6. VERIFY CLEARANCE REQUIREMENTS AND ROUTING OF DUCTWORK AND PIPING PRIOR TO FABRICATION, AS MINOR MODIFICATIONS SUCH AS DUCT AND/OR PIPING RISES AND DROP MAY BE REQUIRED DUE TO FIELD CONDITIONS. MAKE MINOR MODIFICATIONS TO THE BUILDING, PIPING, SPRINKLER, DUCTWORK, ELECTRICAL, ETC. AS SHOWN ON THE DRAWINGS OR REQUIRED TO COMPLETE THE INSTALLATION OF A COMPLETED WORKABLE SYSTEM.
7. MAINTAIN WEATHER-TIGHT BARRIERS TO PREVENT DAMAGE FROM THE ELEMENTS DURING DEMOLITION AND NEW CONSTRUCTION PERIOD.
8. SEAL PENETRATIONS THROUGH THE BUILDING ENVELOPE.
9. PENETRATIONS THROUGH RATED WALLS, FLOORS, PARTITIONS AND ASSEMBLIES SHALL BE INSTALLED AND FIRESAFED TO MEET UL. FIRE RESISTANCE LISTING AND NFPA EQUIREMENTS FOR THE PENETRATION.
10. COORDINATE DEVICES REQUIRING ACCESS PANELS WITH THE ARCHITECT AND OTHER TRADES.
11. MAINTAIN MINIMUM CLEARANCE 10'-0" BETWEEN OUTSIDE INTAKES AND EXHAUST OUTLETS AND PLUMBING VENTS.
12. COORDINATE FINAL LOCATIONS AND ELEVATIONS WITH THE ARCHITECT PRIOR TO INSTALLATION.
13. COORDINATE FINAL FINISH COLORS OF MATERIALS, DEVICES, DIFFUSER, GRILLES, LOUVERS, AND/OR EQUIPMENT WITH THE ARCHITECT PRIOR TO ORDERING, FABRICATION AND INSTALLATION.
14. SCHEDULE UTILITY SERVICES SHUTDOWNS WITH OWNER AND ARCHITECT. MINIMIZE DISRUPTIONS AND DOWNTIME TO THE OWNER.
15. INSTALL DEVICES AND EQUIPMENT TO MEET ADA REQUIREMENTS.
16. ROUTE DUCT AND PIPING CONCEALED IN INTERSTITIAL SPACE UNLESS NOTED OTHERWISE.
17. DOCUMENT LOCATIONS OF DEVICES, DUCT, PIPING, AND EQUIPMENT ON "AS-BUILT" RECORD DRAWINGS AS PER THE SPECIFICATIONS.
18. PAY FOR SERVICE, DEPOSITS, INSPECTION, AND CONNECTION FEES REQUIRED FOR A COMPLETE INSTALLATION. COORDINATE WITH THE UTILITY SERVICE PROVIDER FOR THE REQUIREMENTS NEEDED FOR THIS PROJECT.
19. HVAC SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH NFPA 90A AND NFPA 101.
20. WORK SHOWN IN THE DRAWINGS SHALL COMPLY WITH APPLICABLE NATIONAL, STATE, AND LOCAL ORDINANCES AND CODES.

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222 Durdin Dr

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DRAWINGS SHEET TITLE
MECHANICAL LEGEND & GENERAL NOTES

SHEET NUMBER
M000

21061
PROJECT NUMBER

1304 BERTRAND DRIVE SUITE F7
LAFAYETTE, LOUISIANA 70506
(337) 234-7474 * FAX (337) 234-7774
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Electrical Contact: David Carroll, P.E.
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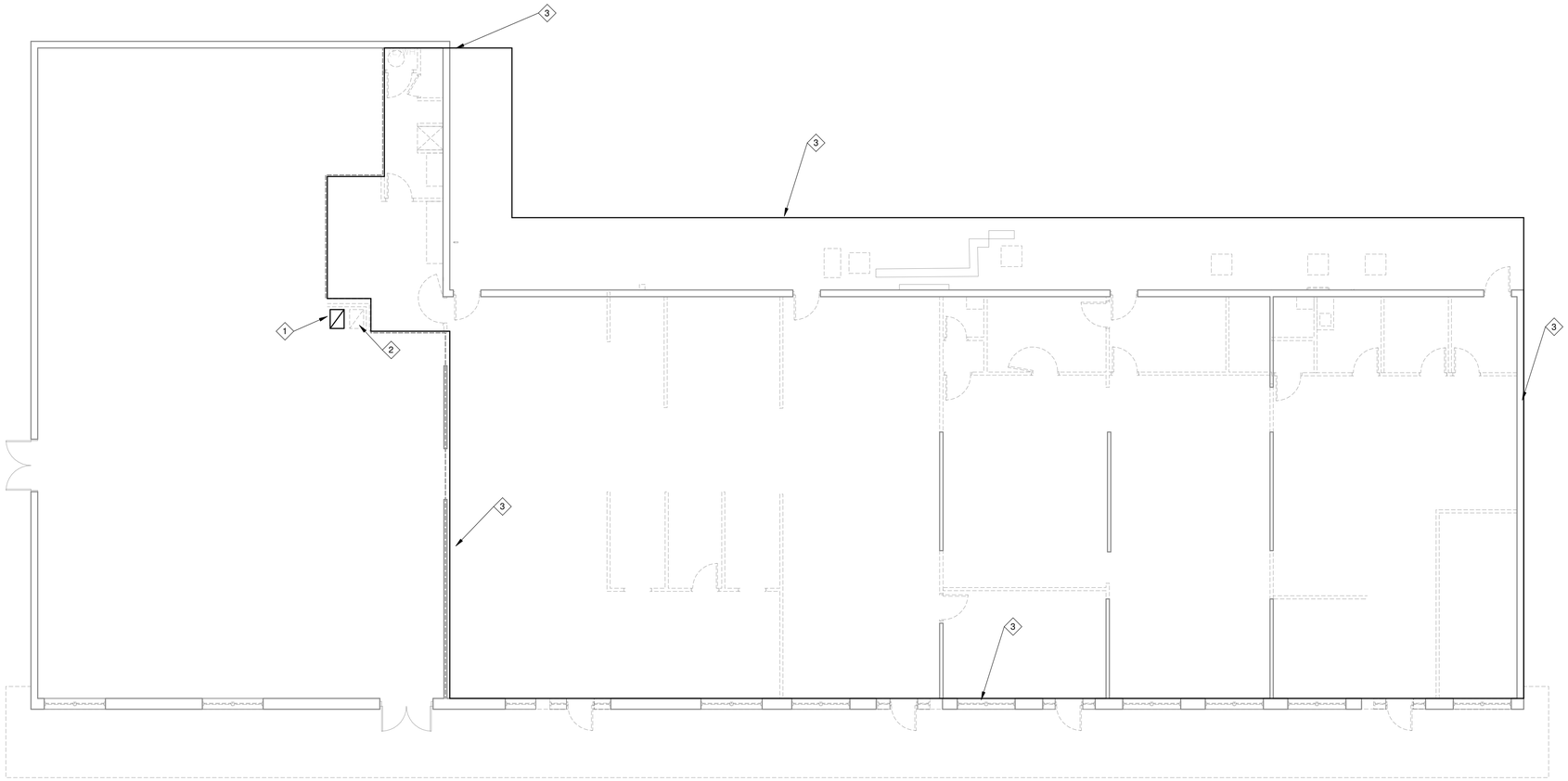
PROJECT No.: 21167.00
CONSULTING

MECHANICAL KEYNOTES

1. AIR HANDLING UNIT TO REMAIN.
2. REMOVE AIR HANDLING UNIT, ASSOCIATED DUCT WORK, ACCESSORIES, AND OUTDOOR UNIT.
3. REMOVE ALL AIR HANDLING UNITS, ASSOCIATED OUTDOOR UNIT, DUCT WORK, ACCESSORIES, EXHAUST FANS, ETC. IN BOXED AREA. PATCH AND REPAIR ANY ROOF OR WALL PENETRATIONS TO MATCH ADJACENT SURFACES AS REQUIRED.



1 Mechanical Plan - Demolition
1/8" = 1'-0" Refer to Architectural Drawings for All Dimensions

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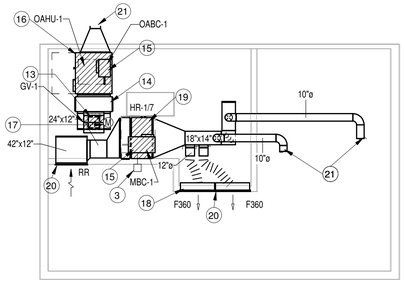
DRAWINGS SHEET TITLE
MECHANICAL DEMOLITION PLAN

SHEET NUMBER
M100

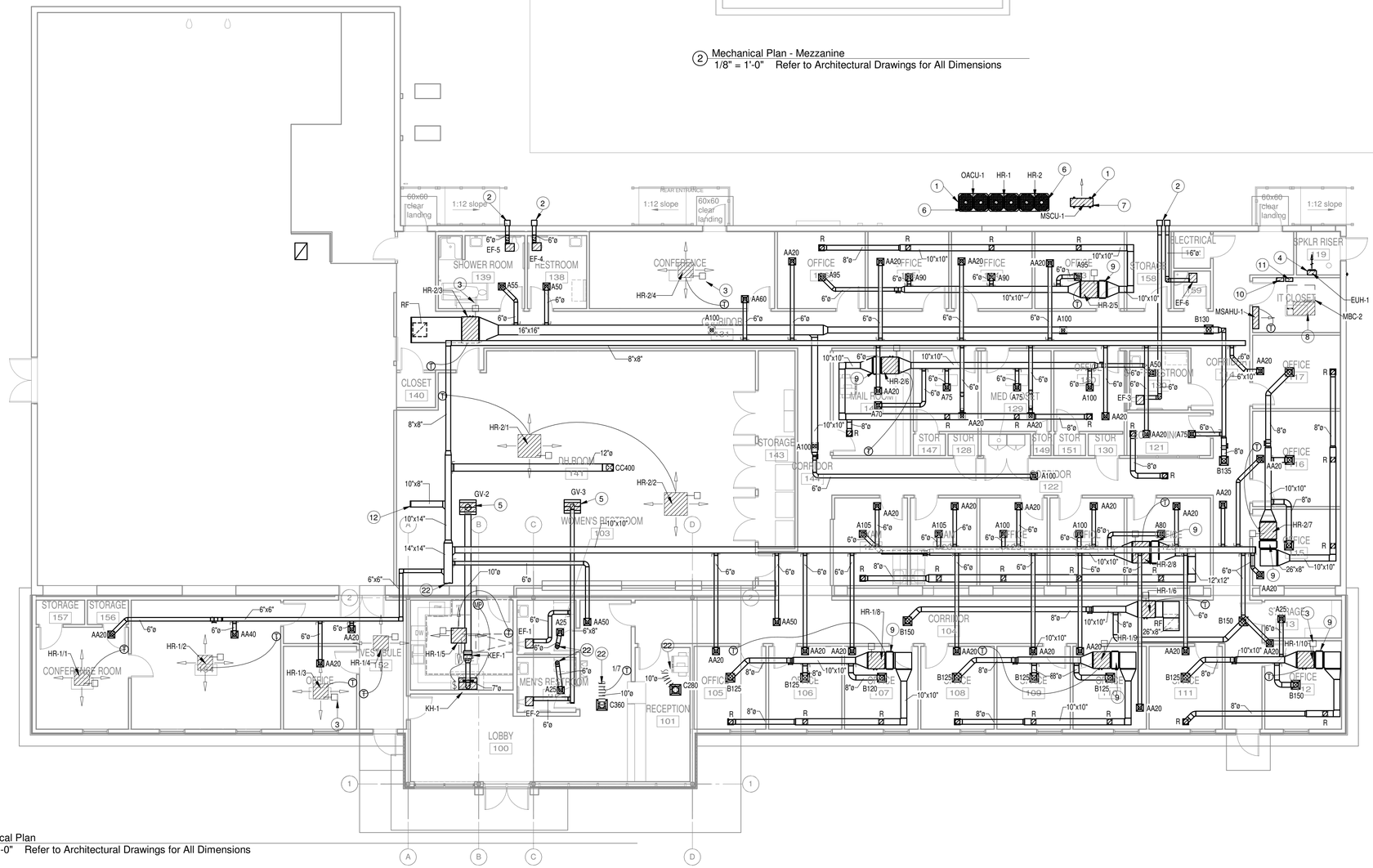
21061
PROJECT NUMBER

MECHANICAL NOTES (#)

1	ANCHOR UNITS TO 4" THICK REINFORCED CONCRETE HOUSE KEEPING PAD.
2	TERMINATE AT EXHAUST WALL CAP ABOVE CEILING HEIGHT IN THIS VICINITY.
3	PROVIDE AN AIR IONIZATION DEVICE IN UNIT AND MOUNT AS PER MANUFACTURER'S RECOMMENDATIONS (TYPICAL).
4	MOUNT UNIT HEATER WITH BOTTOM AT 1'-6" AFF.
5	EXTEND DUCT TO RELIEF HOOD ON ROOF. MAINTAIN 10'-0" DISTANCE FROM HIGH ROOF OF ADDITION.
6	PROVIDE A WALL MOUNTED OUTLET FOR REFRIGERANT PIPING THROUGH THE EXTERIOR WALL. REFER TO DETAIL FOR ADDITIONAL INFORMATION. EXTEND REFRIGERANT PIPING TO RESPECTIVE BRANCH CONTROLLER.
7	PROVIDE A WALL MOUNTED OUTLET FOR REFRIGERANT PIPING THROUGH THE EXTERIOR WALL. REFER TO DETAIL FOR ADDITIONAL INFORMATION. EXTEND REFRIGERANT PIPING TO RESPECTIVE AIR HANDLING UNIT.
8	EXTEND REFRIGERANT PIPING FROM BRANCH CONTROLLER TO RESPECTIVE AIR HANDLING UNIT.
9	MANUFACTURER PROVIDED UNIT MOUNTED FILTER BOX (FBM SERIES OR EQUAL). INSTALL WHITE PLASTIC LABEL WITH 3/4" BLACK LETTERS STATING " FILTER ACCESS POINT" ON T-BAR AT TILE THAT IS REMOVED TO ACCESS AND REPLACE FILTERS.
10	VRF TOUCHSCREEN CENTRAL CONTROLLER SHALL BE MITSUBISHI MODEL AE-200A AND MOUNTED 48" AFF
11	INTEGRATED CLOUD BASED BUILDING CONTROL SYSTEM MITSUBISHI MODEL BCP-50 TO BE INSTALLED AND SET UP BY MANUFACTURER FOR BUILDING CONNECT CONTROLS SYSTEM.
12	CAP AND SEAL DUCT AT THIS VICINITY FOR PHASE II TIE IN (365 CFM AVAILABLE).
13	EXTEND DUCT TO INTAKE HOOD ON ROOF.
14	DUCT MOUNTED FILTER RACK CAPABLE OF HOLDING 2 - 24"X24"X4" PLEATED FILTERS. REFER TO OUTSIDE AIR HANDLING UNIT DETAIL FOR ADDITIONAL INFORMATION.
15	SUSPEND BRANCH CONTROLLER ABOVE AIR HANDLING UNIT FROM STRUCTURE ABOVE. REFER TO DETAIL FOR ADDITIONAL INFORMATION. EXTEND REFRIGERANT PIPING FROM BRANCH CONTROLLER TO RESPECTIVE AIR HANDLING UNIT.
16	VRF OUTSIDE AIR HANDLING UNIT ON STAND. REFER TO DETAIL FOR ADDITIONAL INFORMATION.
17	O.A. MOTORIZED DAMPER SHALL BE INTERLOCKED WITH RESPECTIVE UNIT TO OPEN WHEN THE A/C UNITS COMPRESSOR OR HEATING STRIP IS ENTERGIZED(ON), AND SHALL CLOSE WHEN THE UNITS COMPRESSOR AND HEATING STRIP IS DE-ENETERGIZED(OFF). PROVIDE ALL NECESSARY RELAYS, SWITCHES, TRANSFORMERS, ETC. AS REQUIRED.
18	GRILLE SHALL HAVE A FLANGELESS, CONTINUOUS LINEAR SLOT APPEARANCE. GRILLE SHALL BE TAPED AND FLOATED TO CONCEAL FLANGES (TYPICAL).
19	SUSPEND UNIT FROM STRUCTURE ABOVE. BOTTOM OF UNIT SHALL BE AT 6'-0" ABOVE MEZZANINE FINISHED FLOOR.
20	MOUNT GRILLE WITH CENTER LINE AT 6'-0" ABOVE MEZZANINE FINISHED FLOOR (TYPICAL).
21	REFER TO VIEW 1 ON THIS SHEET FOR CONTINUATION
22	REFER TO VIEW 2 ON THIS SHEET FOR CONTINUATION



2 Mechanical Plan - Mezzanine
1/8" = 1'-0" Refer to Architectural Drawings for All Dimensions



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DRAWINGS SHEET TITLE
MECHANICAL PLAN

SHEET NUMBER
M200

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PROJECT NUMBER

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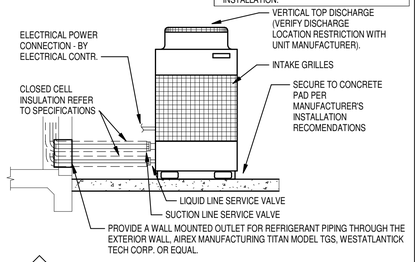
REFRIGERANT LINE SIZES SHALL BE VERIFIED WITH EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION.

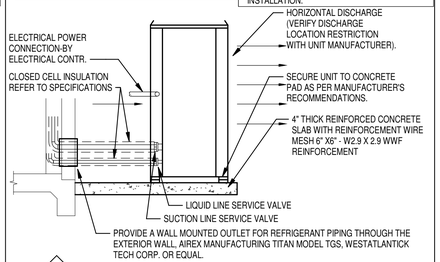
VERIFY UNIT CLEARANCE REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION.



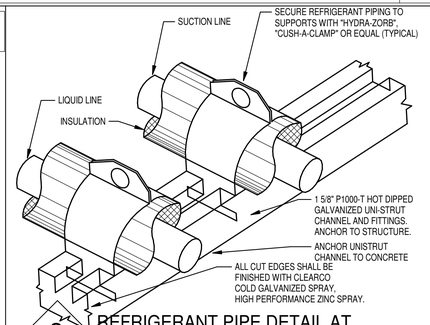
1 VRF CONDENSING UNIT DETAIL — NO SCALE

REFRIGERANT LINE SIZES SHALL BE VERIFIED WITH EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION.

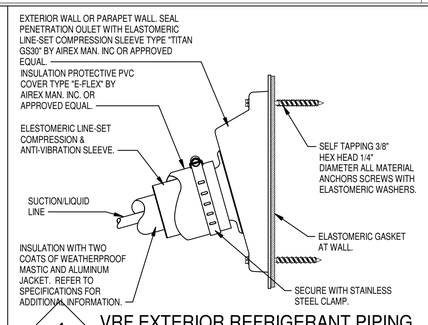
VERIFY UNIT CLEARANCE REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION.



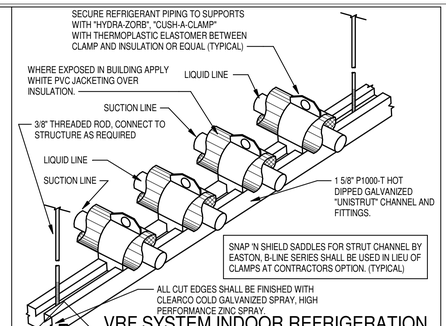
2 CONDENSING UNIT DETAIL (MINI-SPLIT) — NO SCALE



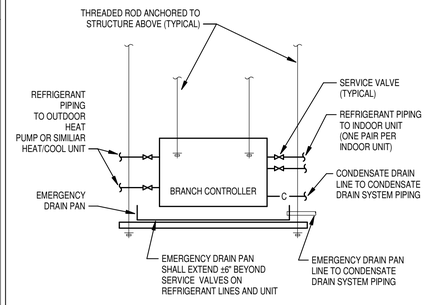
3 REFRIGERANT PIPE DETAIL AT CONCRETE PAD — NO SCALE



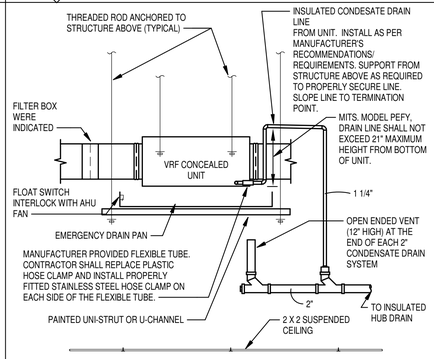
4 VRF EXTERIOR REFRIGERANT PIPING PENETRATION DETAIL — NO SCALE



5 VRF SYSTEM INDOOR REFRIGERATION PIPE SUPPORT — NO SCALE

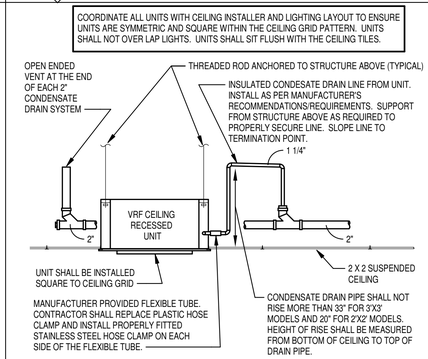


6 VRF - BRANCH CONTROLLER DETAIL — NO SCALE

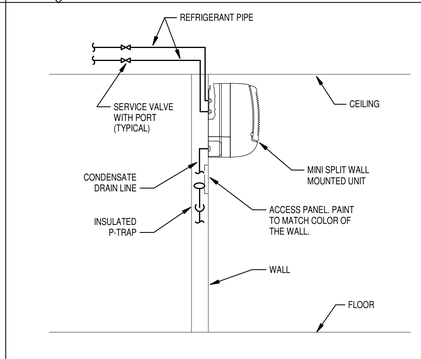


7 VRF - DUCTED CONCEALED UNIT — NO SCALE

COORDINATE ALL UNITS WITH CEILING INSTALLER AND LIGHTING LAYOUT TO ENSURE UNITS ARE SYMMETRIC AND SQUARE WITHIN THE CEILING GRID PATTERN. UNITS SHALL NOT OVER LAP LIGHTS. UNITS SHALL SIT FLUSH WITH THE CEILING TILES.

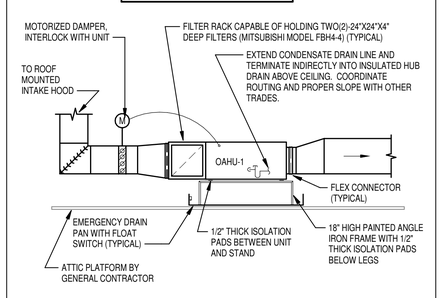


8 VRF - CEILING RECESSED UNIT — NO SCALE

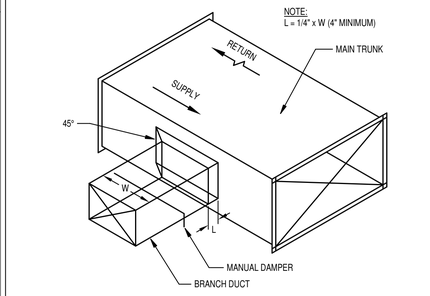


9 MSAHU-1 - WALL MOUNTED UNIT DETAIL — NO SCALE

NOTE: COORDINATE HEIGHT OF PLATFORM AND UNIT METAL SUPPORTS PRIOR TO DUCT CONNECTIONS FOR PROPER CONDENSATE DRAIN LINE SLOPE.



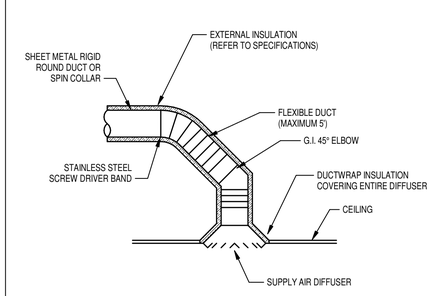
10 DEDICATED OAU (MITSUBISHI) — NO SCALE



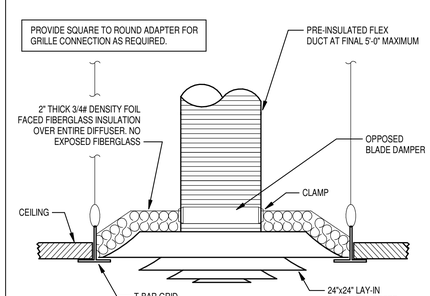
NOTE:

ALL JOINTS SHALL BE SEALED WITH HARDCAST SURE-GRIP 404, OR UNITED McGILL SOLVENT BASED DUCT SEALANT SYSTEM. REFER TO SPECIFICATIONS.

11 BRANCH DUCT (SUPPLY OR RETURN) DETAIL — NO SCALE

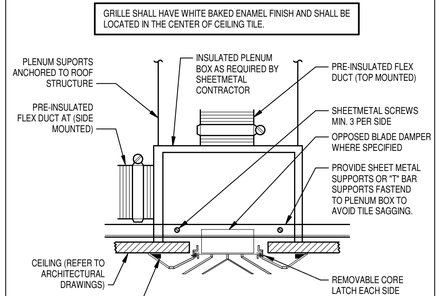


12 CEILING DIFFUSER DETAIL — NO SCALE

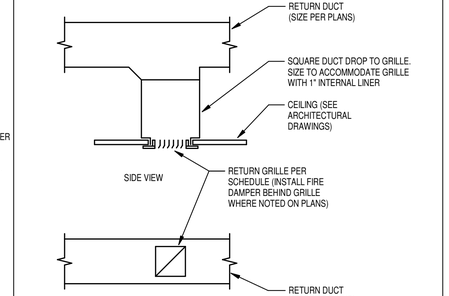


13 LAY-IN DIFFUSER DETAIL — NO SCALE

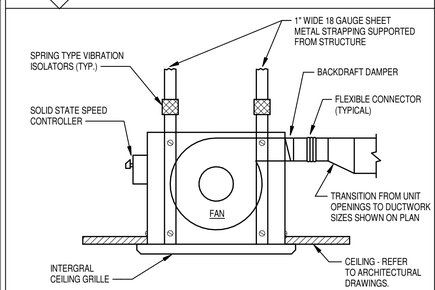
GRILLE SHALL HAVE WHITE BAKED ENAMEL FINISH AND SHALL BE LOCATED IN THE CENTER OF CEILING TILE.



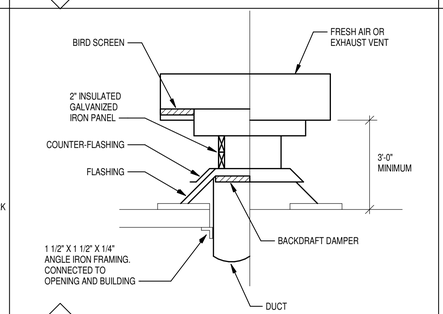
14 SUPPLY DIFFUSER SURFACE MOUNTED DETAIL — NO SCALE



15 RETURN GRILLE DIAGRAM — NO SCALE



16 CEILING FAN INSTALLATION DETAIL — NO SCALE



17 CURB-MOUNTED EXHAUST/INTAKE VENT DETAIL — NO SCALE

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ISSUED FOR
SCHEMATIC DESIGN ☐ DATE:
DESIGN DEVELOPMENT ☐ DATE:
BIDS & CONSTRUCTION ☒ DATE 02/28/2022
REVISION: DATE:
REVISION: DATE:
REVISION: DATE:

DRAWINGS SHEET TITLE
MECHANICAL DETAILS

SHEET NUMBER
M300

21061
PROJECT NUMBER

1304 BERTRAND DRIVE SUITE F7
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BRANCH CONTROLLER SCHEDULE

UNIT NO.	SERVICE	PORTS	VOLTAGE	PHASE	F.L.A.	M.C.A.	BASIS OF DESIGN
MBC-1	HR-1	12	208	1	0.88	1.1	MITSUBISHI CITY MULTI CMB-P1012NU-J1
MBC-2	HR-2	12	208	1	0.88	1.1	MITSUBISHI CITY MULTI CMB-P1012NU-J1
OABC-1	OACU-1	6	208	1	0.44	0.55	MITSUBISHI CITY MULTI CMB-P106NU-J1

NOTES: 1. UNUSED PORTS SHALL HAVE INSULATED, CAPPED VALVES FOR FUTURE USE.

DUCTLESS DX MINI-SPLIT - INDOOR UNIT SCHEDULE

UNIT NO.	SERVICE	FAN					COOLING				HEATING		BASIS OF DESIGN
		FAN CFM		UNIT MCA	VOLTAGE	PHASE	MIN. BTU/H OUTPUT	AMB. TEMP. (°F)	EAT (°F)		MIN. BTU/H OUTPUT	AMB. TEMP. (°F)	
		HIGH	LOW						DB	WB			
MSAHU-1	IT CLOSET 118	425	320	1	208	1	12000	95	80	67	14000	47	MITSUBISHI PKA-A12HA7

NOTES:
1. UNIT SHALL BE PROVIDED WITH HARD WIRED REMOTE CONTROLLERS. CONTROLLERS SHALL BE ABLE OF SENSING TEMPERATURE.
2. WALL MOUNTED UNITS SHALL BE MOUNTED WITH TOP OF UNIT ±1'-0" BELOW CEILING.
3. REFRIGERANT SHALL BE R-410A.
4. CEILING RECESSED AND WALL MOUNTED UNITS SHALL BE PROVIDED WITH LIFE LONG FILTER WITHIN THE UNIT.
5. PROVIDE ONE (1) SPARE LIFE LONG FILTER TO OWNER FOR EACH UNIT THAT HAS A LIFE LONG FILTER.
6. CONTRACTOR SHALL REMOVE THE PLASTIC CONDENSATE HOSE CLAMP (AT UNIT CONNECTION) ON EACH INDOOR UNIT. FURNISH AND INSTALL A STAINLESS STEEL HOSE CLAMP ON THE CONDENSATE DRAIN HOSE (AT UNIT CONNECTION) ON EACH INDOOR UNIT. THE STAINLESS STEEL HOSE CLAMP SHALL BE APPROPRIATELY SIZED TO CREATE A WATER TIGHT SEAL.
7. INDOOR UNIT RECEIVES POWER FROM THE OUTDOOR UNIT. INSTALL UNIT AS PER MANUFACTURER'S REQUIREMENTS.

DUCTLESS DX MINI-SPLIT - OUTDOOR UNIT SCHEDULE

UNIT NO.	SERVICE	MIN. BTU/H OUTPUT	AMB. TEMP. (F°)	VOLTAGE	PHASE	MCA	S.E.E.R.	BASIS OF DESIGN
MSCU-1	IT CLOSET 118	12000	95	208	1	13	20	MITSUBISHI PUZ-A12NKA7

NOTES:
1. OUTDOOR UNIT PROVIDES POWER TO THE INDOOR UNIT. INSTALL UNIT AS PER MANUFACTURER'S REQUIREMENTS.
2. INSTALL ON ISOLATION PADS BETWEEN UNIT AND CONCRETE AT MOUNTING POINTS AND ANCHOR TO CONCRETE PAD.
3. PROVIDE A WALL MOUNTED OUTLET FOR EACH REFRIGERANT PIPING SET THROUGH THE EXTERIOR WALL. AIREX MANUFACTURING TITAN MODEL TGS, WESTATLANTIC TECH CORP. OR EQUAL.

FAN SCHEDULE

UNIT NO.	SERVICE	MIN. CFM	EXT. S.P.	RPM	SONES	FAN H.P.	TYPE	DRIVE	ELECTRICAL SERVICE	CONTROL	BASIS OF DESIGN
EF-1	WOMEN'S RR 103	50	0.25	652	1.4	25W	CEILING	DIRECT	120-1-60	SWITCH W/ LIGHTS	COOK GC-128, GREENHECK SP-B70
EF-2	MEN'S RR 102	50	0.25	652	1.4	25W	CEILING	DIRECT	120-1-60	SWITCH W/ LIGHTS	COOK GC-128, GREENHECK SP-B70
EF-3	STAFF RR 120	50	0.25	652	1.4	25W	CEILING	DIRECT	120-1-60	SWITCH W/ LIGHTS	COOK GC-128, GREENHECK SP-B70
EF-4	RR 138	50	0.25	652	1.4	25W	CEILING	DIRECT	120-1-60	SWITCH W/ LIGHTS	COOK GC-128, GREENHECK SP-B70
EF-5	SHOWER 139	75	0.25	808	1.1	80W	CEILING	DIRECT	120-1-60	SWITCH W/ LIGHTS	COOK GC-146, GREENHECK SP-B110
EF-6	JAN 159	100	0.25	706	1.5	128W	CEILING	DIRECT	120-1-60	MANUAL SWITCH	COOK GC-148, GREENHECK SP-B150
KEF-1	KH-1	474	0.25	800	17	216W	INLINE	DIRECT	120-1-60	HOOD SWITCH	DENLAR D1030-D-IF (PROVIDED WITH HOOD)

NOTES:
1. EF-1,2: PROVIDE FAN WITH INTEGRAL BACK-DRAFT DAMPER, INTEGRAL ALUMINUM CEILING GRILLE, SOLID STATE SPEED CONTROLLER FOR BALANCING, SPRING TYPE ISOLATORS.
2. EF-3,4,5,6: PROVIDE FAN WITH INTEGRAL BACK-DRAFT DAMPER, INTEGRAL ALUMINUM CEILING GRILLE, SOLID STATE SPEED CONTROLLER FOR BALANCING, SPRING TYPE ISOLATORS AND MANUFACTURER PROVIDED WALL CAP(6"Ø CONNECTION).
3. KEF-1: EF-1,2: PROVIDE FAN WITH INTEGRAL BACK-DRAFT DAMPER, SPRING TYPE ISOLATORS. AND FAN SPEED CONTROLLER.

INLINE EXHAUST KITCHEN HOOD W/ FIRE SUPPRESSION SCHEDULE

HOOD NO.	SERVICE	ELECTRICAL SERVICE	DIM. (EXH. CAPTURE AREA)		MIN CFM	FAN POWER (W)	BASIS OF DESIGN
			LENGTH	WIDTH			
KH-1	KITCHEN CLASSROOM 142	120-1-60	30"	19.5"	474	216	DENLAR D1030, ACCUREX XRRS

NOTES:
1. HOOD SHALL BE WALL MOUNTED AT 24" TO 30" ABOVE THE RANGE.
2. HOOD SHALL HAVE FACTORY INSTALLED FIRE SUPPRESSION SYSTEM, HAVE 212 DEGREE FUSIBLE LINK WHICH WILL ACTIVATE THE MECHANICAL FIRE SUPPRESSION SYSTEM, HAVE WET CHEMICAL EXTINGUISHING AGENT: LOW PH AMEREX 660 (PRESSURIZED POTASSIUM CITRATE/POTASSIUM ACETATE MIX)
3. PROVIDE HOOD WITH MANUAL PULL STATION, WITH HANDICAP ACCESSIBLE CONTROL BOX, WITH A POWER DISCONNECT DEVICE FOR ELECTRIC APPLIANCESTHAT WILL ACTIVATE AT SUPPRESSION SYSTEM DISCHARGE AND SHALL AUTOMATICALLY DISCONNECT RANGE ELEMENT. UNIT SHALL HAVE MULTIPLE ALARM CONTACTS PRE-INSTALLED (LOCAL, REMOTE AND TROUBLE ALARMS) AND AN AUDIBLE BUZZER.
4. PROVIDE HOOD WITH LIGHT, REMOVABLE STAINLESS STEEL (S.S) GREASE BAFFLE AND S.S DRIP CUP.
5. PROVIDE HOOD WITH CENTRIFUGAL FAN AND FAN SPEED CONTROLLER FROM HOOD MANUFACTURER.
6. HOOD SHALL HAVE STAINLESS STEEL CONSTRUCTION.
7. PROVIDE HOOD WITH STAINLESS STEEL CLOSURE PANEL UP THROUGH CEILING.

VARIABLE REFRIGERANT FLOW (VRF) - HEAT RECOVERY - INDOOR UNIT SCHEDULE

UNIT NO.	SERVICE	UNIT TYPE	BC/BS CONTROLLER	FAN CFM		COOLING			HEATING		ELECTRICAL			SOUND LEVEL dB (A)		CONTROL	BASIS OF DESIGN
				HIGH	LOW	MIN. BTU/H OUTPUT	EAT (°F) D.B.	EAT (°F) W.B.	MIN. BTU/H OUTPUT	INDOOR TEMP (°F)	MCA	VOLTAGE	PHASE	HIGH	LOW		
HR-1/1	CONFERENCE 155	CEILING RECESSED	MBC-1	350	280	8000	80	67	9000	70	0.8	208	1	38	29	WALL MOUNTED CONTROLLER	MITSUBISHI CITY MULTI PLFY-P08NFMU-E
HR-1/2	CUBICLE 154	CEILING RECESSED	MBC-1	390	320	15000	80	67	17000	70	0.8	208	1	40	31	WALL MOUNTED CONTROLLER	MITSUBISHI CITY MULTI PLFY-P15NFMU-E
HR-1/3	OFFICE 153	CEILING RECESSED	MBC-1	280	230	5000	80	67	5600	70	0.8	208	1	30	26	WALL MOUNTED CONTROLLER	MITSUBISHI CITY MULTI PLFY-P05NFMU-E
HR-1/4	VESTIBULE 152	CEILING RECESSED	MBC-1	280	230	5000	80	67	5600	70	0.8	208	1	30	26	WALL MOUNTED CONTROLLER	MITSUBISHI CITY MULTI PLFY-P05NFMU-E
HR-1/5	KITCHEN 142	CEILING RECESSED	MBC-1	390	320	15000	80	67	17000	70	0.8	208	1	40	31	WALL MOUNTED CONTROLLER	MITSUBISHI CITY MULTI PLFY-P15NFMU-E
HR-1/6	CORRIDOR 104	CONCEALED DUCTED	MBC-1	300	212	8000	80	67	9000	70	1.05	208	1	29	26	WALL MOUNTED CONTROLLER	MITSUBISHI CITY MULTI PEFY-P08NMAU-E3
HR-1/7	LOBBY 100	CONCEALED DUCTED	MBC-1	1412	998	48000	80	67	54000	70	3.4	208	1	44	35	WALL MOUNTED CONTROLLER	MITSUBISHI CITY MULTI PEFY-P48NMAU-E3
HR-1/8	OFFICE 105-107	CONCEALED DUCTED	MBC-1	371	265	12000	80	67	13500	70	1.4	208	1	34	28	WALL MOUNTED CONTROLLER	MITSUBISHI CITY MULTI PEFY-P12NMAU-E3
HR-1/9	OFFICE 108-110	CONCEALED DUCTED	MBC-1	371	265	12000	80	67	13500	70	1.4	208	1	34	28	WALL MOUNTED CONTROLLER	MITSUBISHI CITY MULTI PEFY-P12NMAU-E3
HR-1/10	OFFICE 111-112	CONCEALED DUCTED	MBC-1	300	212	8000	80	67	9000	70	1.05	208	1	29	26	WALL MOUNTED CONTROLLER	MITSUBISHI CITY MULTI PEFY-P08NMAU-E3
HR-2/1	DH ROOM 141	CEILING RECESSED	MBC-2	1201	706	36000	80	67	40000	70	1.5	208	1	44	35	WALL MOUNTED CONTROLLER	MITSUBISHI CITY MULTI PLFY-EP36NEMU-E
HR-2/2	DH ROOM 141	CEILING RECESSED	MBC-2	1201	706	36000	80	67	40000	70	1.5	208	1	44	35	WALL MOUNTED CONTROLLER	MITSUBISHI CITY MULTI PLFY-EP36NEMU-E
HR-2/3	CORRIDOR 131/RESTROOMS	CONCEALED DUCTED	MBC-2	883	618	30000	80	67	34000	70	2.8	208	1	39	30	WALL MOUNTED CONTROLLER	MITSUBISHI CITY MULTI PEFY-P30NMAU-E3
HR-2/4	CONFERENCE 137	CEILING RECESSED	MBC-2	390	320	12000	80	67	13500	70	0.8	208	1	39	30	WALL MOUNTED CONTROLLER	MITSUBISHI CITY MULTI PLFY-P12NFMU-E
HR-2/5	OFFICE 133-136	CONCEALED DUCTED	MBC-2	371	265	12000	80	67	13500	70	1.4	208	1	34	28	WALL MOUNTED CONTROLLER	MITSUBISHI CITY MULTI PEFY-P12NMAU-E3
HR-2/6	OFFICE 145-150	CONCEALED DUCTED	MBC-2	371	265	12000	80	67	13500	70	1.4	208	1	34	28	WALL MOUNTED CONTROLLER	MITSUBISHI CITY MULTI PEFY-P12NMAU-E3
HR-2/7	OFFICE 115-117	CONCEALED DUCTED	MBC-2	371	265	12000	80	67	13500	70	1.4	208	1	34	28	WALL MOUNTED CONTROLLER	MITSUBISHI CITY MULTI PEFY-P12NMAU-E3
HR-2/8	EXAM/OFFICE 123-127	CONCEALED DUCTED	MBC-2	494	353	15000	80	67	17000	70	1.5	208	1	44	28	WALL MOUNTED CONTROLLER	MITSUBISHI CITY MULTI PEFY-P15NMAU-E3

NOTES:
1. ALL UNITS SHALL BE COMPLETE WITH STOP VALVE WITH SERVICE PORT ON LIQUID, GAS, AND RECOVERY LINES. VALVES SHALL BE LOCATED SUCH THAT UNIT CAN BE REMOVED AND REPLACED WITHOUT SHUTTING DOWN THE ENTIRE SYSTEM.
2. CEILING RECESSED UNITS SHALL BE PROVIDED WITH INTEGRAL CONDENSATE PUMP.
3. UNIT CONTROL: WALL MOUNTED CONTROLLER (WIRED REMOTE WALL MOUNTED CONTROLLER WITH INTEGRAL TEMPERATURE SENSOR), UNIT'S INTERNAL SENSOR (NO WALL MOUNTED CONTROLLER, TEMPERATURE SENSED AT RETURN SENSOR), WALL MOUNTED CONTROLLER W/ REMOTE SENSOR (WIRED REMOTE WALL MOUNTED CONTROLLER, TEMPERATURE SENSED AT WIRED REMOTE SENSOR), OR CENTRAL CONTROLLER/REMOTE SENSOR (SET POINTS WILL BE CONTROLLED BY CENTRAL CONTROLLER, TEMPERATURE SENSED AT WIRED REMOTE SENSOR). REFER TO PLANS FOR QUANTITY OF WALL MOUNTED CONTROLLERS REQUIRED.
4. CEILING RECESSED AND WALL MOUNTED UNITS SHALL BE PROVIDED WITH LIFE LONG FILTER WITHIN THE UNIT.
5. PROVIDE ONE (1) SPARE LIFE LONG FILTER TO OWNER FOR EACH UNIT THAT HAS A LIFE LONG FILTER.
6. PROVIDE TWO (2) SPARE SETS OF PLEATED FILTERS TO OWNER FOR EACH UNIT THAT HAS FILTER BACK GRILLES OR FILTER BOXES.
7. CONTRACTOR SHALL REMOVE THE PLASTIC CONDENSATE HOSE CLAMP (AT UNIT CONNECTION) ON EACH INDOOR UNIT. FURNISH AND INSTALL A STAINLESS STEEL HOSE CLAMP ON THE CONDENSATE DRAIN HOSE (AT UNIT CONNECTION) ON EACH INDOOR UNIT. THE STAINLESS STEEL HOSE CLAMP SHALL BE APPROPRIATELY SIZED TO CREATE A WATER TIGHT SEAL.
8. BASIS OF DESIGN: MITSUBISHI CITY MULTI. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL ELECTRICAL COST FOR OTHER VRF/VRV MANUFACTURES TO THE ELECTRICAL CONTRACTOR.
9. CASSETTE UNITS SHALL CYCLE FAN ON/OFF WITH CALL FOR COOLING/HEATING. ADJUST DIP-SWITCH ON EACH UNIT AS REQUIRED TO ALLOW THE FAN TO BE OFF WHEN NO CALL FOR COOLING/HEATING.

VARIABLE REFRIGERANT FLOW (VRF) - HEAT RECOVERY - OUTDOOR UNIT SCHEDULE

GROUP NO.	SERVICE	COOLING		HEATING				ELECTRICAL						REFRIGERANT TYPE	SOUND LEVEL* dB(A)	BASIS OF DESIGN
		MIN. BTU/H OUTPUT	AMBIENT TEMP. (°F)	MIN BTU/H OUTPUT	INDOOR TEMP. (°F)	OUTDOOR TEMP. (°F) D.B.	OUTDOOR TEMP. (°F) W.B.	VOLTAGE	PHASE	MCA CIRC. 1	MCA CIRC. 2	MOCP CIRC. 1	MOCP CIRC. 2			
HR-1	ADDITION AREA	120000	95	135000	70	47	43	208	3	43	0	70	0	R-410A	60/61	MITSUBISHI CITY-MULTI PURY-P120TNU-A
HR-2	RENOVATION AREA PHASE I	144000	95	160000	70	47	43	208	3	52	0	80	0	R-410A	61/65	MITSUBISHI CITY-MULTI PURY-P144TNU-A

NOTES:
1. MAXIMUM DISTANCE BETWEEN COMBINED UNITS ON ONE REFRIGERANT SYSTEM - 32 FEET.
2. INSULATE SUCTION, LIQUID AND RECOVERY REFRIGERANT LINES.
3. INSTALL BC CONTROLLER(CITY-MULTI) ON EACH CONDENSING UNIT AS REQUIRED BY MANUFACTURER'S SPECIFICATIONS (MAXIMUM OF TWO BC PER SYSTEM).
4. ALL UNITS SHALL BE COMPLETE WITH STOP VALVE WITH SERVICE PORT ON LIQUID, GAS, AND RECOVERY LINES. VALVES SHALL BE LOCATED SUCH THAT UNIT CAN BE REMOVED AND REPLACED WITHOUT SHUTTING DOWN THE ENTIRE SYSTEM.
5. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL SUB CONTRACTOR ON MANUFACTURER SELECTED FOR THE PROJECT. INSTALLATION OF REFRIGERANT PIPING, CONTROL WIRING, POWER WIRING, ETC. SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
6. BASIS OF DESIGN: MITSUBISHI CITY MULTI. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL ELECTRICAL COST FOR OTHER VRF/VRV MANUFACTURES TO THE ELECTRICAL CONTRACTOR.
7. EACH UNIT REQUIRES A DEDICATED ELECTRICAL CIRCUIT.
8. ANCHOR UNITS TO CONCRETE PAD. INSTALL ISOLATION PADS BETWEEN UNIT AND CONCRETE AT MOUNTING POINTS.

DIFFUSER/GRILLE SCHEDULE

SYMBOL	SIZE	SERVICE	LOCATION	FINISH	O.B.D.	BASIS OF DESIGN
A	6"ø	SUPPLY	CEILING	WHITE	O.B.D.	TITUS TDC-AA-3 (24"X24" LAY-IN)
AA	6"X6"	SUPPLY	CEILING	WHITE	O.B.D.	TITUS TDC-AA-6 (SURFACE MOUNT)
B	8"ø	SUPPLY	CEILING	WHITE	O.B.D.	TITUS TDC-AA-3 (24"X24" LAY-IN)
C						
CC	12"X12"	SUPPLY	CEILING	WHITE	O.B.D.	TITUS TDC-AA-6 (SURFACE MOUNT)
F	48"	SUPPLY	WALL	TAPED/SPACKLED	- - -	TITUS FL10 (SINGLE SLOT, 12"ø DUCT CONNECTION, LINEAR SLOT)
R	8"X8"	RETURN	CEILING	WHITE	- - -	TITUS 355FL-1 (SURFACE MOUNT)
RF	20"X20"	RETURN	CEILING	WHITE	- - -	TITUS 355FLF1-3 (24"X24" LAY-IN, FILTER BACK)
RR	42"X12"	RETURN	WALL	COLOR BY ARCH.	- - -	TITUS 355FL-1 (SURFACE MOUNT)

NOTES:
1. COORDINATE FINAL FINISHES AND COLOR WITH ARCHITECT.
2. REFER TO PLANS FOR DIRECTION OF AIR FLOW FOR GRILLES. IF DIRECTION IS NOT INDICATED, AIR FLOW IS IN FOUR DIRECTION (4-WAY GRILLE).
3. COORDINATE FINAL LOCATIONS WITH REFLECTIVE CEILING PLANS. REFER TO ARCHITECTURAL DRAWINGS.
4. ALL DIFFUSERS SHALL HAVE ALUMINUM CONSTRUCTION.

VARIABLE REFRIGERANT FLOW (VRF) - 100% OUTSIDE AIR - OUTDOOR UNIT SCHEDULE

UNIT NO.	SERVICE	COOLING		HEATING				ELECTRICAL					REFRIGERANT TYPE	SOUND LEVEL* dB (A)	BASIS OF DESIGN
		MIN. BTU/H OUTPUT	AMBIENT TEMP. (°F)	MIN BTU/H OUTPUT	INDOOR TEMP. (°F)	OUTDOOR TEMP (°F) DB	OUTDOOR TEMP (°F) WB	VOLTAGE	PHASE	MCA	MOCP	EER			
OACU-1	WHOLE BUILDING	120000	95	135000	70	47	43	208	3	43	70	12.1	R-410A	60	MITSUBISHI CITY-MULTI PURY-P120TNU-A

NOTES:
1. INSULATE SUCTION, LIQUID AND RECOVERY REFRIGERANT LINES.
2. INSTALL BC CONTROLLER FOR EACH CONDENSING UNIT AS REQUIRED BY MANUFACTURER'S SPECIFICATIONS.
3. ALL UNITS SHALL BE COMPLETE WITH STOP VALVE WITH SERVICE PORT ON LIQUID, GAS, AND RECOVERY LINES. VALVES SHALL BE LOCATED SUCH THAT UNIT CAN BE REMOVED AND REPLACED WITHOUT SHUTTING DOWN THE ENTIRE SYSTEM.
4. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR ON MANUFACTURER SELECTED FOR THE PROJECT. INSTALLATION OF THE REFRIGERANT PIPING, CONTROL WIRING, POWER WIRING, ETC. SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
5. ANCHOR UNITS TO CONCRETE PAD. INSTALL ISOLATION PAD BETWENN UNIT AND CONCRETE MOUNITING POINTS.

VARIABLE REFRIGERANT FLOW (VRF) - 100% OUTSIDE AIR - INDOOR UNIT SCHEDULE

UNIT NO.	SERVICE	BRANCH CONTROLLER	FAN		COOLING			HEATING				ELECTRICAL						SOUND LEVEL dB (A)		BASIS OF DESIGN
			CFM	E.S.P.	MIN. BTU/H OUTPUT	EAT (°F) D.B.	EAT (°F) W.B.	MIN. BTU/H OUTPUT	E.A.T.	L.A.T.	REHEAT MIN. BTU/H OUTPUT	VOLTAGE	PHASE	F.L.A.	M.C.A.	M.O.C.P.	LOW	HIGH	
OAHU-1	WHOLE BUILDING	OABC-1	1200	0.8	112000	95	80	61400	20	67	24200	208	1	3.19	3.99	15	36	41	MITSUBISHI CITY MULTI PEFY-AF1200CFMR

NOTES:
1. ALL UNITS SHALL BE COMPLETE WITH STOP VALVE WITH SERVICE PORT ON LIQUID, GAS, AND RECOVERY LINES. VALVES SHALL BE LOCATED SUCH THE UNIT CAN BE REMOVED AND REPLACED WITHOUT SHUTTING DOWN THE ENTIRE SYSTEM.
2. UNIT SHALL BE PROVIDED WITH INTEGRAL CONDENSATE PUMP.
3. UNITS LAT SHALL BE NEUTRAL (±72°F ADJUSTABLE)

ELECTRIC UNIT HEATER SCHEDULE

UNIT NO.	SERVICE	MIN BTU/H OUTPUT	KW	ELECTRICAL SERVICE	NO. STAGES	MOUNTING HEIGHT	BASIS OF DESIGN
EUH-1	RISER	10239	3.0	208-1-60	1	1'-6"	RAYWALL AFA240D

NOTES:
1. PROVIDE UNITS WITH HEAVY DUTY 16 GUAGE STEEL GRILLE.
2. UNITS EUH-1 SHALL BE RECESSED IN WALL.
3. UNITS SHALL BE PROVIDED WITH INTEGRAL THERMOSTAT.

RELIEF / INTAKE VENTILATOR SCHEDULE

MARK	QTY.	LOCATION	SERVICE	CFM	THROAT SIZE	EXT. S.P. (IN WC)	MANUFACTURER	MODEL
GV-1	1	ROOF	INTAKE	1200	14x14	0.183	GREENHECK	FGI-14x14
GV-2	1	ROOF	RELIEF	474	10x10	0.112	GREENHECK	FGR-10x10
GV-3	1	ROOF	RELIEF	100	8x8	0.012	GREENHECK	FGR-8x8

NOTES:
1. VENTILATOR SHALL BE PROVIDED WITH GALVANIZED BIRD SCREEN, BACKDRAFT DAMPER, AND 14" TALL INSULATED GALVANIZED ROOF CURB PROVIDED BY VENTILATOR MANUFACTURER.
2. COORDINATE ROOF OPENING SIZE WITH MANUFACTURER SELECTED FOR THE PROJECT.
3. VENTILATOR HOOD SHALL HAVE ALUMINUM CONSTRUCTION.

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DRAWINGS SHEET TITLE
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SHEET NUMBER
M400

21061
PROJECT NUMBER

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DEFINE

ELECTRICAL ABBREVIATIONS

CT	DENOTES COUNTER-TOP-HEIGHT MOUNTED. CONTRACTOR TO VERIFY COUNTER TOP HEIGHT AND HEIGHT OF BACK SPLASH.
E	DENOTES EMERGENCY DEVICE
G	DENOTES GROUND FAULT INTERRUPTER PROTECTED
WP	DENOTES WEATHERPROOF
AFF	DENOTES ABOVE FINISHED FLOOR
C	DENOTES CONDUIT
A	DENOTES AMP
EWC	ELECTRICAL WATER COOLER
W	WALL MOUNTED-48" ABOVE FINISHED FLOOR OR AS NOTED
CB	CODE BLUE
IG	DENOTES ISOLATED GROUND
FDS	FUSED DISCONNECT SWITCH
BOF	BOTTOM OF FIXTURE
MRR	MANUFACTURER'S RECOMMENDED RATING
WR	WEATHER RESISTANT
VOJ	VERIFY ON JOB
VR	VANDAL RESISTANT
SPD	SURGE PROTECTION DEVICE - REFER TO SPECIFICATIONS.

ELECTRICAL LINE TYPE LEGEND

	SCREENED LINES/SYMBOLS INDICATE EXISTING DEVICES TO REMAIN.
	DASHED LINES/SYMBOLS INDICATE EXISTING DEVICES TO BE REMOVED OR RELOCATED.
	BOLD LINES/SYMBOLS INDICATE NEW OR RELOCATED DEVICES.

DESIGN

ELECTRICAL LEGEND

SYMBOL	LIGHTING DESCRIPTION
	LIGHTING FIXTURE-REFER TO LIGHTING FIXTURE SCHEDULE
	LIGHTING FIXTURE-REFER TO LIGHTING FIXTURE SCHEDULE
	LIGHTING FIXTURE-REFER TO LIGHTING FIXTURE SCHEDULE
	LIGHTING FIXTURE-REFER TO LIGHTING FIXTURE SCHEDULE
	CEILING MOUNTED EXIT LIGHT - REFER TO LIGHTING FIXTURE SCHEDULE - ARROWS DEFINE DIRECTION
	WALL MOUNTED EXIT LIGHT - COORDINATE FINAL MOUNTING HEIGHT WITH THE ARCHITECT - REFER TO LIGHTING FIXTURE SCHEDULE - ARROWS DEFINE DIRECTION
	EMERGENCY LIGHT (8'-0" A.F.F. OR AS NOTED) - REFER TO LIGHTING FIXTURE SCHEDULE
	CEILING MOUNTED EGRESS LIGHT - REFER TO LIGHTING FIXTURE SCHEDULE
P/C	PHOTOCELL
$	SINGLE POLE TOGGLE SWITCH (48" A.F.F. TO CENTER OF DEVICE OR AS NOTED)
$3	THREE-WAY TOGGLE SWITCH (48" A.F.F. TO CENTER OF DEVICE OR AS NOTED)
$D	WALL MOUNTED DIMMER SWITCH WITH ON/OFF AND 0-10V OUTPUT DIMMING. DIMMER MUST BE COMPATIBLE WITH BALLAST OR LED. REFER TO SPECIFICATIONS. PROVIDE ALL NECESSARY CONDUCTORS FOR COMPLETE OPERATING SYSTEM. (48" A.F.F. TO CENTER OF DEVICE OR AS NOTED)
$M	MOTOR RATED SWITCH (48" A.F.F. TO CENTER OF DEVICE OR AS NOTED). CONTRACTOR TO PROVIDE SWITCH TO DE-ENERGIZE EACH CURRENT CARRYING CONDUCTOR. LOCATE ADJACENT TO EQUIPMENT BEING SERVED IN A READILY ACCESSIBLE LOCATION.
$K	SINGLE POLE KEYED SWITCH (48" A.F.F. TO CENTER OF DEVICE OR AS NOTED)
$*	SWITCH (48" A.F.F. TO CENTER OF DEVICE OR AS NOTED) COORDINATE TYPE AND INSTALLATION REQUIREMENTS WITH MANUFACTURE. COORDINATE LOCATION WITH OWNER.
	SINGLE POLE SWITCH. MOUNT IN DOOR SWING. LEE ELECTRIC: 210DN
$$	INBOARD AND OUTBOARD SWITCHING UNLESS NOTED OTHERWISE (48" A.F.F. TO CENTER OF DEVICE OR AS NOTED)
$T	SINGLE POLE DIGITAL PRESET COUNT DOWN TYPE TIMER SWITCH (48" A.F.F. TO CENTER OF DEVICE OR AS NOTED) SENSORSWITCH PTS 60 OR EQUAL
	WALL MOUNTED OCCUPANCY SENSOR (48" AFF TO CENTER OF DEVICE OR AS NOTED) - REFER TO SPECIFICATIONS.
	WALL MOUNTED DOUBLE SWITCH OCCUPANCY SENSOR (48" AFF TO CENTER OF DEVICE OR AS NOTED) - REFER TO SPECIFICATIONS.
	CORNER MOUNTED OCCUPANCY SENSOR - MOUNTING HEIGHT TO BE DETERMINED PER MANUFACTURER'S RECCOMENDATIONS FOR OPTIMAL COVERAGE - MYTECH, WATT STOPPER
	POWER DESCRIPTION
	DUPLEX CONVENIENCE OUTLET (18" A.F.F. FOR GENERAL AREAS, 36" A.F.F. FOR GARAGES, HANGARS AND THE LIKE OR AS NOTED)
TV	TELEVISION OUTLET (VERIFY MOUNTING HEIGHT AND LOCATION WITH ARCHITECT)
EWC	ELECTRICAL WATER COOLER; COORDINATE ELECTRICAL DEVICE/OUTLET TYPE AND LOCATION WITH PLUMBING CONTRACTOR (CONCEAL OUTLET/DEVICE BEHIND COOLER) OUTLET TO BE GROUND FAULT INTERRUPTER PROTECTED.
MW	MICROWAVE OUTLET - RECESSED 20 AMP DUPLEX OUTLET. HUBBELL OR EQUAL. VERIFY EXACT MOUNTING LOCATION WITH OWNER/ACHITECT PRIOR TO ROUGH IN.
WH	WATER HEATER; COORDINATE ELECTRICAL OUTLET/DISCONNECT TYPE AND LOCATION WITH PLUMBING CONTRACTOR
SB	SMART BOARD OUTLET - SB DENOTES HEIGHT OF OUTLET PER OWNER
TR	DUPLEX CONVENIENCE OUTLET (18" A.F.F. OR AS NOTED) TR DENOTES TAMPER RESISTANT - HUBBELL: RR205TR, GFTR20 OR EQUAL.
U	COMBINATION RECEPTACLE/OUTLET AND DUAL USB CHARGER - LEVITON T5832 OR EQUAL. (18" A.F.F. OR AS NOTED)
	DOUBLE DUPLEX CONVENIENCE OUTLET (18" A.F.F. OR AS NOTED)
	SPECIAL OUTLET (VERIFY TYPE AND MOUNTING HEIGHT WITH EQUIPMENT MANUFACTURE)
	COUNTER TOP DUPLEX OUTLET (CLEAR BACK SPLASH)
	CEILING MOUNTED OUTLET
	MOTOR STARTER - PROVIDED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR.
	FLOOR BOX, POWER (COORDINATE FINAL LOCATION WITH OWNER/ARCHITECT PRIOR TO INSTALLATION) MINIMUM 2-3/4" CONDUITS TO ACCESSIBLE CEILING.
XX	FLOOR BOX, COMBINATION POWER/COMMUNICATIONS (COORDINATE FINAL LOCATION WITH OWNER/ARCHITECT PRIOR TO INSTALLATION. 2-1" CONDUITS IN SLAB TO 6" ABOVE ACCESSIBLE CEILING - PROVIDE BLANK PLATE OR XX DENOTES CABLE TYPE AND QUANTITY; P=PHONE, D=DATA, C=COAX REFER TO SPECIFICATIONS
J	JUNCTION BOX
J EMS	CONTROL POWER FOR ENERGY MANAGEMENT SYSTEM - PROVIDE OUTLET OR JUNCTION BOX AT LOCATION PER EMS CONTRACTOR
J HD	HAND DRYER - COORDINATE OUTLET/DEVICE TYPE WITH SUPPLIER. COORDINATE LOCATION WITH THE OWNER/ARCHITECT PRIOR TO ROUGH-IN.
	ELECTRICAL MOTOR (COORDINATE TERMINATION WITH SUPPLIER)
XX/Y ZZF	FUSED DISCONNECT SWITCH - FUSE AT MANUFACTURE RECOMMENDED RATING UNLESS NOTED OTHERWISE. XX DENOTES DISCONNECT SIZE, Y DENOTES PHASE, ZZF ZZ DENOTES FUSE SIZE.
	ELECTRICAL PANEL SURFACE MOUNTED
	ELECTRICAL PANEL FLUSH MOUNTED
TP	TELEPHONE/POWER POLE: COORDINATE EXACT MOUNTING LOCATION WITH FURNITURE MANUFACTURE. MAKE FINAL CONNECTIONS. REFER TO DETAIL. WIRE MOLD: 30TP-4V
	CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING
	CONDUIT RUN CONCEALED UNDER FLOOR OR BELOW GRADE
	HOMERUN TO ELECTRIC PANEL BOARD (INDICATED NUMBER OF CIRCUIT BY NUMBER OF ARROWS)
	THREE (3) CONDUCTORS RUN IN CONDUIT. EVERY CIRCUIT TO HAVE A GROUND, SHARED NEUTRAL IS NOT ALLOWED.
	FOUR (4) CONDUCTORS RUN IN CONDUIT. EVERY CIRCUIT TO HAVE A GROUND, SHARED NEUTRAL IS NOT ALLOWED.
	FIVE (5) CONDUCTORS RUN IN CONDUIT. EVERY CIRCUIT TO HAVE A GROUND, SHARED NEUTRAL IS NOT ALLOWED.
	FOUR (4) CONDUCTORS RUN IN CONDUIT, ONE CONDUCTOR DESIGNATED FOR ISOLATED GROUND
M	MOTORIZED DAMPER - PROVIDE BY OTHERS. ELECTRICALLY POWERED BY ELECTRICAL CONTRACTOR WHEN NOTED.
S/S	START - STOP STATION - COORDINATE WITH EQUIPMENT PROVIDER.
VFD	VARIABLE FREQUENCY DRIVE PROVIDED BY MECHANICAL AND INSTALLED BY ELECTRICAL. MAINTAIN CLEARANCES PER NFPA 70
	INTERCOM DESCRIPTION
	CLOCK, D=DENOTES DOUBLE FACE, S=DENOTES SINGLE FACE - DEEP 4" SQUARE BOX WITH SINGLE GANG PLASTER RING WITH CABLE/PULLSTRING IN 3/4" CONDUIT TO ACCESSIBLE CEILING
AD	ADMINISTRATIVE PHONE - PHONE FOR SPACE PER SPECIFICATIONS
NA	NON-ADMINISTRATIVE PHONE - PHONE FOR SPACE PER SPECIFICATIONS
CP	CLASSROOM PHONE - PROVIDE PHONE FOR SPACE PER SPECIFICATIONS
S	CEILING MOUNTED SPEAKER - PROVIDE SPEAKER BACK BOX AND CABLING
IC	INTERCOM CONTROL STATION - DEEP 4" SQUARE BOX WITH SINGLE GANG PLASTER RING WITH CABLE/PULLSTRING IN 3/4" CONDUIT TO ACCESSIBLE CEILING.
	TRUMPET SPEAKER - DEEP 4" SQUARE BOX WITH SINGLE GANG PLASTER RING WITH CABLE/PULLSTRING IN 3/4" CONDUIT TO ACCESSIBLE CEILING. VERIFY HEIGHT WITH ENGINEER.

SYMBOL	SPECIAL SYSTEMS DESCRIPTION
XX	COMMUNICATIONS OUTLET - DEEP 4" SQUARE BOX WITH SINGLE GANG PLASTER RING WITH PULLSTRING IN 1" CONDUIT TO ACCESSIBLE CEILING (18" A.F.F OR AS NOTED) - PROVIDE A BLANK PLATE OR XX DENOTES CABLE TYPE AND QUANTITY; P=PHONE, D=DATA, C=COAX REFER TO SPECIFICATIONS
XX	TELEVISION OUTLET-DEEP 4" SQUARE BOX WITH SINGLE GANG PLASTER RING WITH PULLSTRING IN 1" C. TO ACCESSIBLE CEILING (VERIFY MOUNTING HEIGHT AND LOCATION WITH ARCHITECT) - PROVIDE BLANK PLATE OR XX DENOTES CABLE TYPE AND QUANTITY; P=PHONE, D=DATA, C=COAX REFER TO SPECIFICATIONS
XX	DATA JACK ABOVE CEILING W/ 30' OF SLACK (FUTURE WIRELESS ACCESS POINT) XX - DENOTES CABLE QUANTITY
AV	AUDIO & VISUAL - DEEP 4" SQUARE DEEP DOUBLE GANG BOX WITH DOUBLE GANG PLASTER RING (MOUNT 18" A.F.F. V.O.J.) WITH 1 1/4" CONDUIT WITH CABLE/PULLSTRING TO A MINIMUM OF 6" ABOVE CEILING.
OP	OVERHEAD PROJECTOR - DEEP 4" SQUARE BOX INSTALLED ABOVE CEILING ADJACENT TO OVERHEAD PROJECTOR (SEE DETAIL)
AV	AUDIO & VISUAL - RECESSED FLOOR BOX - WIREMOLD RFB9 OR EQUAL (SEE DETAIL)
SB	SMART BOARD J-BOX - 4" SQUARE DEEP BOX WITH SINGLE GANG PLASTER RING WITH CABLE/PULLSTRING IN 3/4" CONDUIT TO ACCESSIBLE CEILING. (SEE DETAIL)
CS	CONTROL STATION - 4" SQUARE DEEP BOX WITH SINGLE GANG PLASTER RING WITH CABLE/PULLSTRING IN 3/4" CONDUIT TO ACCESSIBLE CEILING. (SEE DETAIL)
	FIRE ALARM DESCRIPTION
F	FIRE ALARM PULL STATION - DEEP 4" SQUARE BOX WITH SINGLE GANG PLASTER RING WITH CABLE IN 3/4" CONDUIT TO ACCESSIBLE CEILING (48" A.F.F. TO CENTER OF DEVICE)
VS	FIRE ALARM VALVE SUPERVISORY SWITCH- PROVIDE MONITORING MODULE FOR ALL VALVE SUPERVISORY SWITCHES, COORDINATE REQUIREMENTS, QUANTITIES, AND LOCATIONS WITH THE SPRINKLER CONTRACTOR
WF	FIRE ALARM FLOW DETECTOR/SWITCH - PROVIDE MONITORING MODULE FOR ALL FLOW DETECTORS/SWITCHES, COORDINATE REQUIREMENTS, QUANTITIES, AND LOCATIONS WITH THE SPRINKLER CONTRACTOR
DH	MAGNETIC DOOR HOLDER - CONTRACTOR TO CONNECT TO 120V CIRCUIT. DOOR HOLDERS SHALL RELEASE UPON ACTIVATION OF THE FIRE ALARM SYSTEM
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL - BACK BOX WITH 1" CONDUIT MINIMUM TO ACCESSIBLE CEILING
S	SMOKE DETECTOR - DEEP 4" SQUARE BOX WITH SINGLE GANG PLASTER RING WITH CABLE IN 3/4" CONDUIT TO ACCESSIBLE CEILING.
SS	SINGLE STATION SMOKE DETECTOR 120 VOLT WITH BATTERY BACKUP AND INTERCONNECTED TO ALL SMOKE DETECTORS IN UNIT.
S ID	FIRE ALARM DUCT DETECTOR
H	HEAT DETECTOR - DEEP 4" SQUARE BOX WITH SINGLE GANG PLASTER RING WITH CABLE IN 3/4" CONDUIT TO ACCESSIBLE CEILING.
AIO	ADDRESSABLE INPUT/OUTPUT MODULE
XX	FIRE ALARM WALL MOUNTED STROBE UNIT - DEEP 4" SQUARE BOX WITH SINGLE GANG PLASTER RING WITH CABLE IN 3/4" CONDUIT TO ACCESSIBLE CEILING (MOUNTING HEIGHT AS PER NFPA 72, ALL DEVICES SHALL BE AT SAME HEIGHT) XX DENOTES CANDELA RATING
XX	FIRE ALARM CEILING MOUNTED STROBE - XX DENOTES CANDELA RATING
XX	FIRE ALARM WALL MOUNTED HORN/STROBE UNIT - DEEP 4" SQUARE BOX WITH SINGLE GANG PLASTER RING WITH CABLE IN 3/4" CONDUIT TO ACCESSIBLE CEILING (MOUNTING HEIGHT AS PER NFPA) XX DENOTES CANDELA RATING
C XX	FIRE ALARM CEILING MOUNTED HORN/STROBE - XX DENOTES CANDELA RATING
S	FIRE ALARM WALL MOUNTED SPEAKER - DEEP 4" SQUARE BOX WITH SINGLE GANG PLASTER RING WITH CABLE IN 3/4" CONDUIT TO ACCESSIBLE CEILING (MOUNTING HEIGHT AS PER NFPA 72, ALL DEVICES SHALL BE AT THE SAME HEIGHT)
C S	FIRE ALARM CEILING MOUNTED SPEAKER
XX	FIRE ALARM WALL MOUNTED SPEAKER/STROBE UNIT - DEEP 4" SQUARE BOX WITH SINGLE GANG PLASTER RING WITH CABLE IN 3/4" CONDUIT TO ACCESSIBLE CEILING (MOUNTING HEIGHT AS PER NFPA 72, ALL DEVICES SHALL BE AT THE SAME HEIGHT) XX DENOTES CANDELA RATING
C XX	FIRE ALARM CEILING MOUNTED SPEAKER STROBE - XX DENOTES CANDELA RATING
	SPRINKLER ALARM BELL (BY OTHERS) - PROVIDE DEDICATED LOW VOLTAGE FIRE ALARM CIRCUIT FROM THE FIRE ALARM CONTROL PANEL. COORDINATE WITH SPRINKLER CONTRACTOR.
	SECURITY SYSTEM DESCRIPTION
	SURVEILLANCE CAMERA - DEEP 4" SQUARE BOX WITH SINGLE GANG PLASTER RING WITH CABLE/PULLSTRING IN 3/4" CONDUIT TO ACCESSIBLE CEILING. VERIFY HEIGHT WITH ENGINEER.
CR	CARD READER - DEEP 4" SQUARE BOX WITH SINGLE GANG PLASTER RING WITH PULLSTRING IN 3/4" CONDUIT TO ACCESSIBLE CEILING (48" A.F.F. TO CENTER OF DEVICE OR AS NOTED)
L	SECURITY SYSTEM MOTION DETECTOR - LONG RANGE - COORDINATE ROUGH-IN REQUIREMENTS WITH SECURITY SYSTEM PROVIDER.
W	SECURITY SYSTEM MOTION DETECTOR - WIDE RANGE - COORDINATE ROUGH-IN REQUIREMENTS WITH SECURITY SYSTEM PROVIDER.
K	SECURITY SYSTEM KEY PAD - DEEP 4" SQUARE BOX WITH SINGLE GANG PLASTER RING WITH CABLE/PULLSTRING IN 3/4" CONDUIT TO ACCESSIBLE CEILING
	ACCESS CONTROL - ELECTRIC DOOR STRIKE (BY OTHERS) - 3/4" CONDUIT TO ACCESSIBLE CEILING. COORDINATE ROUGH-IN REQUIREMENTS WITH SECURITY SYSTEM PROVIDER.
H	SECURITY SYSTEM HORN - DEEP 4" SQUARE BOX WITH SINGLE GANG PLASTER RING WITH CABLE/PULLSTRING IN 3/4" CONDUIT TO ACCESSIBLE CEILING.

NOTES:

1. ITEMS ON THIS SCHEDULE ARE NOT NECESSARILY SHOWN ON PLANS.

DELIVER

ELECTRICAL GENERAL NOTES

1. ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS ANY LOCAL CODES AND ORDINANCES.
2. MAINTAIN PROPER WORKING SPACE CLEARANCES ABOUT ELECTRICAL EQUIPMENT PER NEC ARTICLE 110.26.
3. FULLY COORDINATE ALL ELECTRICAL REQUIREMENTS OF EQUIPMENT BEING FURNISHED BY ALL DIVISIONS UNDER THIS CONSTRUCTION CONTRACT. EACH SYSTEM SHALL BE COMPLETE AND FULLY FUNCTIONAL. THIS INCLUDES MECHANICAL, PLUMBING, OWNER PROVIDED AND CONTRACTOR PROVIDED EQUIPMENT. CONTRACTOR TO REFER TO EQUIPMENT INSTALLATION DOCUMENTS AND SHOP DRAWINGS PRIOR TO ANY ROUGH-IN.
4. CONTRACTOR SHALL COORDINATE CIRCUIT BREAKER AND FUSE SIZES FOR MECHANICAL EQUIPMENT PER SUBMITTED EQUIPMENT MANUFACTURER'S RECOMMENDED NAMEPLATE RATINGS PRIOR TO SHOP DRAWING PHASE OF PROJECT.
5. INTERRUPTION OF SERVICE: BEFORE ANY EQUIPMENT IS SHUT DOWN FOR DISCONNECTING OR TIE-INS, ARRANGEMENTS SHALL BE MADE WITH THE ARCHITECT AND THIS WORK SHALL BE DONE AT THE TIME BEST SUITED TO THE OWNER. OUTAGES MUST BE SCHEDULED THROUGH THE ARCHITECT. THE ARCHITECT SHALL REVIEW EXTENT, LENGTH, AND TIMING OF OUTAGES. SERVICES SHALL BE RESTORED THE SAME DAY. PROVIDE TEMPORARY POWER OR OTHER SERVICES AS REQUIRED DURING OUTAGES. ALL OVERTIME OR PREMIUM COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE BASE BID.
6. COORDINATE LOCATION OF ELECTRICAL EQUIPMENT WITH PIPES AND DUCT WORK BEING SUPPLIED BY OTHER DIVISIONS. THE EQUIPMENT SPACE INCLUDED ALL REFERENCED NEC CLEARANCES SHALL BE MAINTAINED. IF ANY PIPES OR DUCT WORK VIOLATE ANY ELECTRICAL CLEARANCE REQUIREMENTS, IT SHALL BE REMOVED AND RELOCATED AT THE CONTRACTOR'S EXPENSE. DRIP PANS ARE NOT PERMITTED UNLESS SPECIFICALLY CALLED FOR IN THE CONSTRUCTION DOCUMENTS.
7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SEE THAT ALL EQUIPMENT THAT MAY REQUIRE MAINTENANCE AND OPERATION ARE READILY ACCESSIBLE, REGARDLESS OF THE DIAGRAMMATIC LOCATION SHOWN ON THE DRAWINGS. ALL CONNECTIONS TO FIXTURES AND EQUIPMENT SHOWN ON THE DRAWINGS SHALL BE CONSIDERED DIAGRAMMATIC UNLESS OTHERWISE INDICATED BY A SPECIFIC DETAIL ON THE DRAWINGS. THE ACTUAL CONNECTIONS SHALL BE MADE TO FULLY SUIT THE REQUIREMENTS OF EACH CASE AND ADEQUATELY PROVIDE FOR SERVICING.
8. CONTRACTOR SHALL TAMP AND BACKFILL ALL TRENCHES. TRENCHES SHALL BE LEVEL WITH FINISH GRADE.
9. CONTRACTOR SHALL VISIT THE SITE AND DETERMINE THE EXTENT OF DEMOLITION WORK AND NEW WORK NEEDED FOR THIS PROJECT.
10. CONTRACTOR SHALL BECOME FAMILIAR WITH THE PROJECT SCOPE, CONSTRAINTS, UTILITY CONNECTIONS, AND BUILDING SERVICES.
11. CONTRACTOR SHALL GIVE FIRST RIGHT TO REFUSAL OF SALVAGE TO THE OWNER. IF THE OWNER ELECTS TO NOT KEEP SALVAGE, CONTRACTOR SHALL REMOVE SALVAGE BY LAWFUL MEANS.
12. DRAWINGS ARE SCHEMATIC AND DIAGRAMMATIC IN NATURE. DRAWINGS SHALL NOT BE SCALED. COORDINATE ROUTING OF SERVICES WITH SITE CONDITIONS AND WITH WORK OF OTHER TRADES.
13. FIELD VERIFY DIMENSIONS PRIOR TO ORDERING, FABRICATING, AND ERECTION OF MATERIAL AND/OR EQUIPMENT. NOTIFY THE ENGINEER OF DISCREPANCIES IN A TIMELY MANNER.
14. SEAL PENETRATIONS THROUGH THE BUILDING ENVELOPE.
15. PENETRATIONS THROUGH RATED WALLS, FLOORS, PARTITIONS AND ASSEMBLIES SHALL BE INSTALLED AND FIRESAFED TO MEET UL. FIRE RESISTANCE LISTING AND NFPA REQUIREMENTS FOR THE PENETRATION.
16. COORDINATE DEVICES REQUIRING ACCESS PANELS WITH THE ARCHITECT AND OTHER TRADES.
17. DEVICE SYMBOLS ALONG WITH DRAWINGS, DRAWING NOTES, AND SPECIFICATIONS ARE INTENDED TO PROVIDE A COMPLETE SYSTEM. CONTRACTOR TO COORDINATE WITH ALL TRADES TO PROVIDE A COMPLETE SYSTEM.

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2/24/2022

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ISSUED FOR
SCHEMATIC DESIGN ☐
DATE:
DESIGN DEVELOPMENT ☐
DATE:
BIDS & CONSTRUCTION ☒
DATE: 02/28/2022
REVISION:
DATE:
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DATE:
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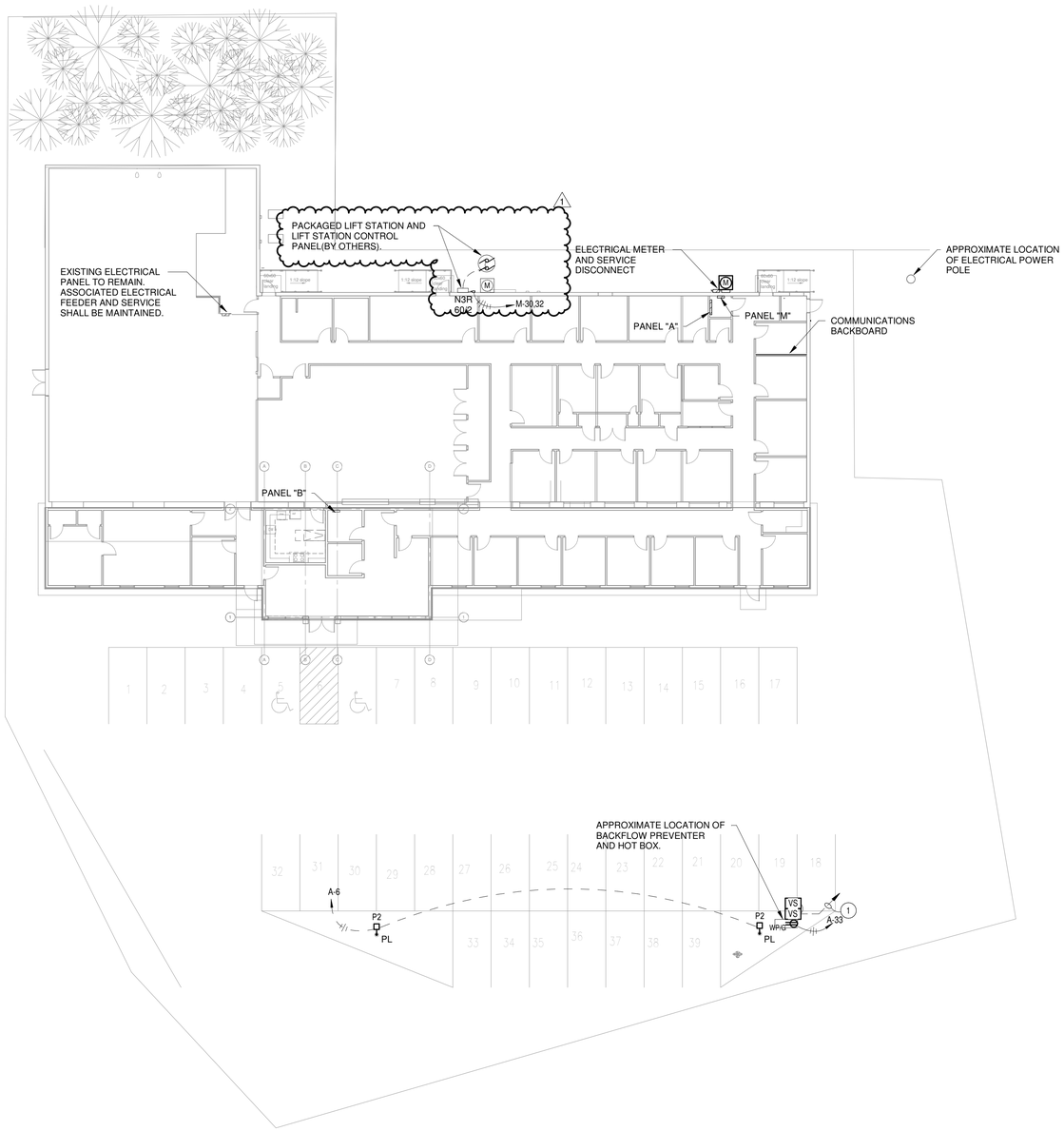
DATE:

DRAWINGS SHEET TITLE
ELECTRICAL LEGEND & NOTES

SHEET NUMBER
E000

21061
PROJECT NUMBER

ELECTRICAL NOTES



1 Electrical Site Plan
1/16" = 1'-0" Refer to Architectural Drawings for All Dimensions

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REVISION: Revision 1
DATE: 03/07/2022
REVISION:
DATE:
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DATE:

DRAWINGS SHEET TITLE
ELECTRICAL SITE PLAN

SHEET NUMBER
E100R1

21061
PROJECT NUMBER

GENERAL ELECTRICAL DEMOLITION NOTES:

1. REMOVE EXISTING LIGHT FIXTURES, DISCONNECTS, OUTLETS, BOXES, WIRING, CONDUIT, ETC. AND OFFER TO OWNER. IF OWNER REFUSES, ELECTRICAL CONTRACTOR SHALL REMOVE FROM SITE AND PROPERLY AND LEGALLY DISPOSE.

2. REMOVE PANELS, ASSOCIATED CIRCUITS, AND FEEDER.

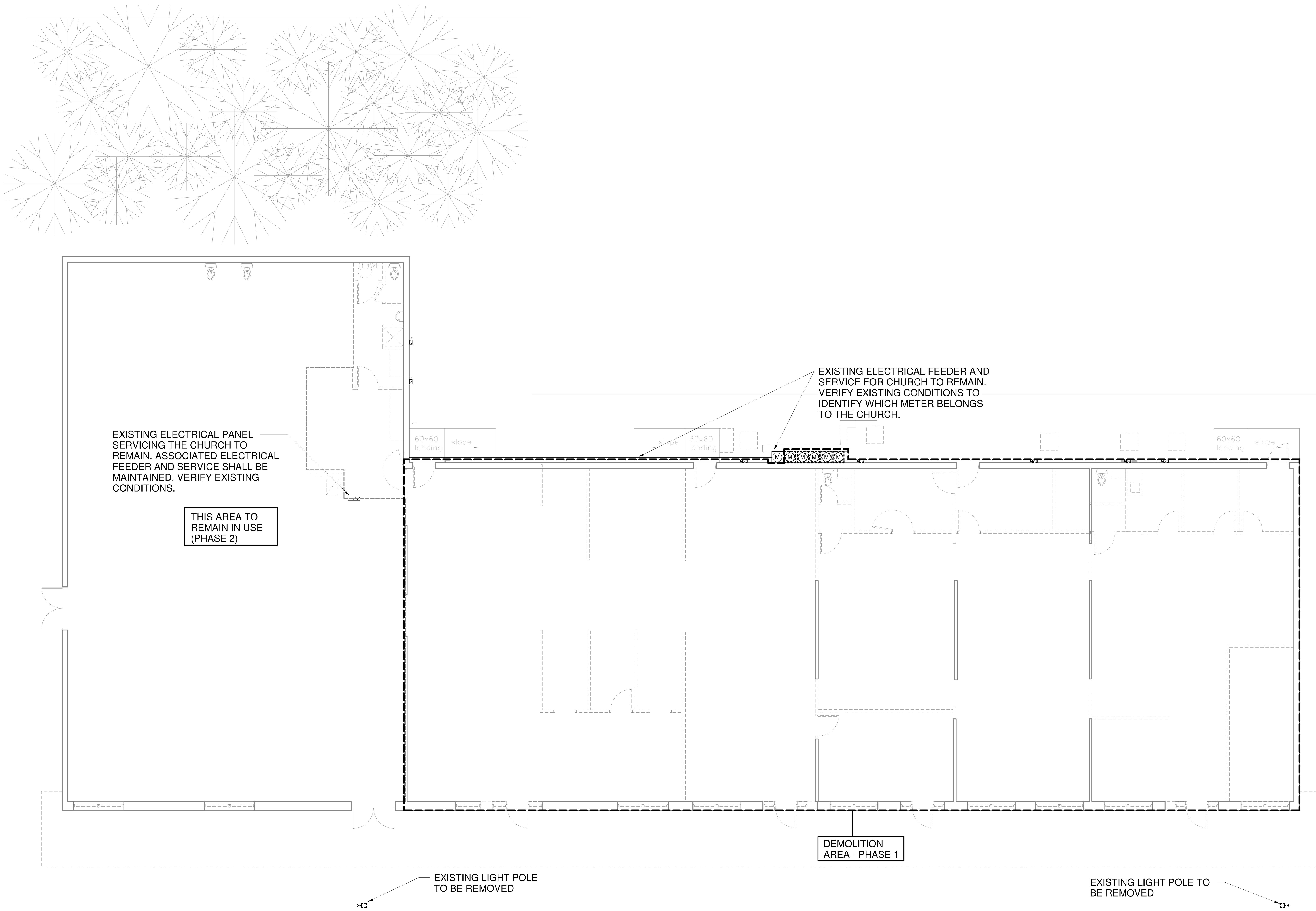
3. REMOVE EXISTING DEVICES FROM WALLS BEING DEMOLISHED. IF THEY OCCUR IN THE MIDDLE OF A CIRCUIT, MAKE THE REMAINDER OF THE CIRCUIT CONTINUOUS.

4. RELOCATE EXISTING DEVICE AND EXTEND EXISTING CIRCUITRY.

5. MAINTAIN ALL REMAINING EXISTING CIRCUITS WHERE INTERRUPTED BY DEMOLITION WORK. PROVIDE WIRING AND CONDUIT TO RESTORE CONTINUOUS CIRCUIT INTEGRITY.

6. PROTECT EXISTING ELECTRICAL EQUIPMENT AND INSTALLATIONS INDICATED TO REMAIN. IF DAMAGED OR DISTURBED IN THE COURSE OF THE WORK, REMOVE DAMAGED PORTIONS AND INSTALL NEW PRODUCTS OF EQUAL CAPACITY, QUALITY, AND FUNCTIONALITY.

7. EXISTING ROUTING OF CIRCUITS/FEEDERS ARE INDICATED ON DRAWINGS FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT LOCATIONS OF FEEDERS/CIRCUITS PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL BARE ALL COST OF RESTORING EXISTING ELECTRICAL FUNCTIONALITY SHOULD ANY EXISTING UNDERGROUND ELECTRICAL UTILITIES BE DAMAGED DURING THE COURSE OF CONSTRUCTION.



1 Electrical Demolition Plan
1/8" = 1'-0" Refer to Architectural Drawings for All Dimensions

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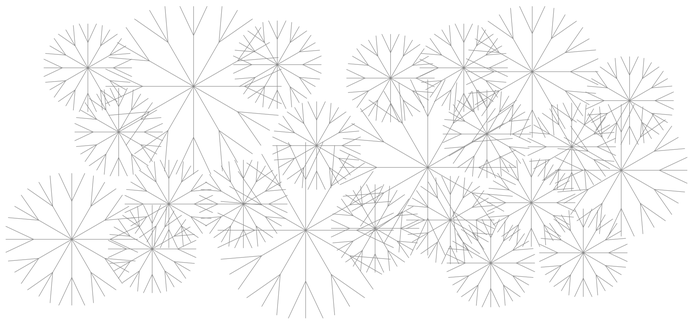
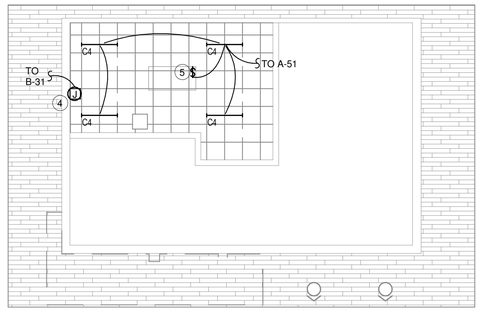
LIGHTING NOTES

1	THIS SPACE TO BE CONTROLLED BY CEILING MOUNTED OCCUPANCY SENSOR. PLACEMENT, QUANTITY AND TYPE TO BE DETERMINED BY MANUFACTURE. REFER TO ELECTRICAL SPECIFICATION 26 09 23.
2	THIS SPACE IS CLASSIFIED AS A PATIENT CARE AREA PER THE NEC. BRANCH CIRCUITS SHALL BE INSTALLED PER NEC 517.13 ALL BRANCH CIRCUITS IN THIS SPACE SHALL BE INSTALLED IN EMT, RIGID METAL OR IMC WITH AN ADDITIONAL GROUND. THE CONDUIT SHALL ITSELF SERVE AS AN EQUIPMENT GROUNDING RETURN PATH.
3	CONTRACTOR TO VERIFY QUANTITY AND LOCATION AND PROVIDE CONDUIT STUBS FROM SIGN TRANSFORMER TO EACH LETTER FOR SIGN. LOCATE SIGN TRANSFORMER IN MEZZANINE. COORDINATE WITH SIGN VENDOR.
4	APPROXIMATE LOCATION OF SIGN TRANSFORMER. PROVIDE CONDUIT TO EXTERIOR SIGN. COORDINATE WITH SIGN VENDOR.
5	LIGHT SWITCH TO BE MOUNTED ON GUARDRAIL.
6	PENDANT FIXTURE CLUSTER SUSPENSION LENGTHS SHALL BE VERIFIED WITH ARCHITECT.





② Lighting Plan - Mezzanine
1/8" = 1'-0" Refer to Architectural Drawings for All Dimensions

① Lighting Plan
1/8" = 1'-0" Refer to Architectural Drawings for All Dimensions

1304 BERTRAND DRIVE SUITE F7
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Electrical Contact: David Carroll, P.E.
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PROJECT No.: 21167.00

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2/24/2022

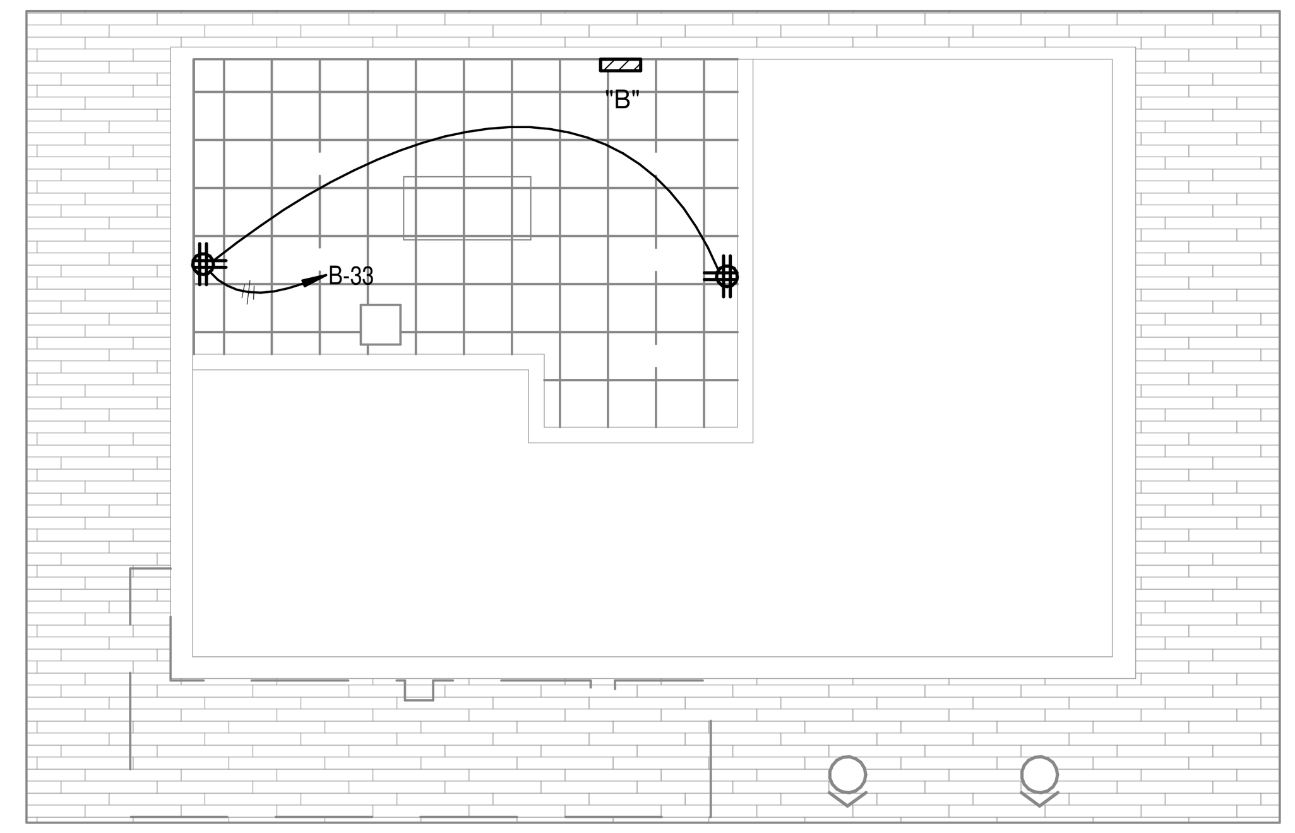
SPINDLETOP SILSBEE
Spindletop MHMR
222 Durdin Dr
Silsbee, TX 77656

ISSUED FOR
SCHEMATIC DESIGN ☐ DATE:
DESIGN DEVELOPMENT ☐ DATE:
BIDS & CONSTRUCTION [X] DATE: 02/28/2022
REVISION: DATE:
REVISION: DATE:
REVISION: DATE:

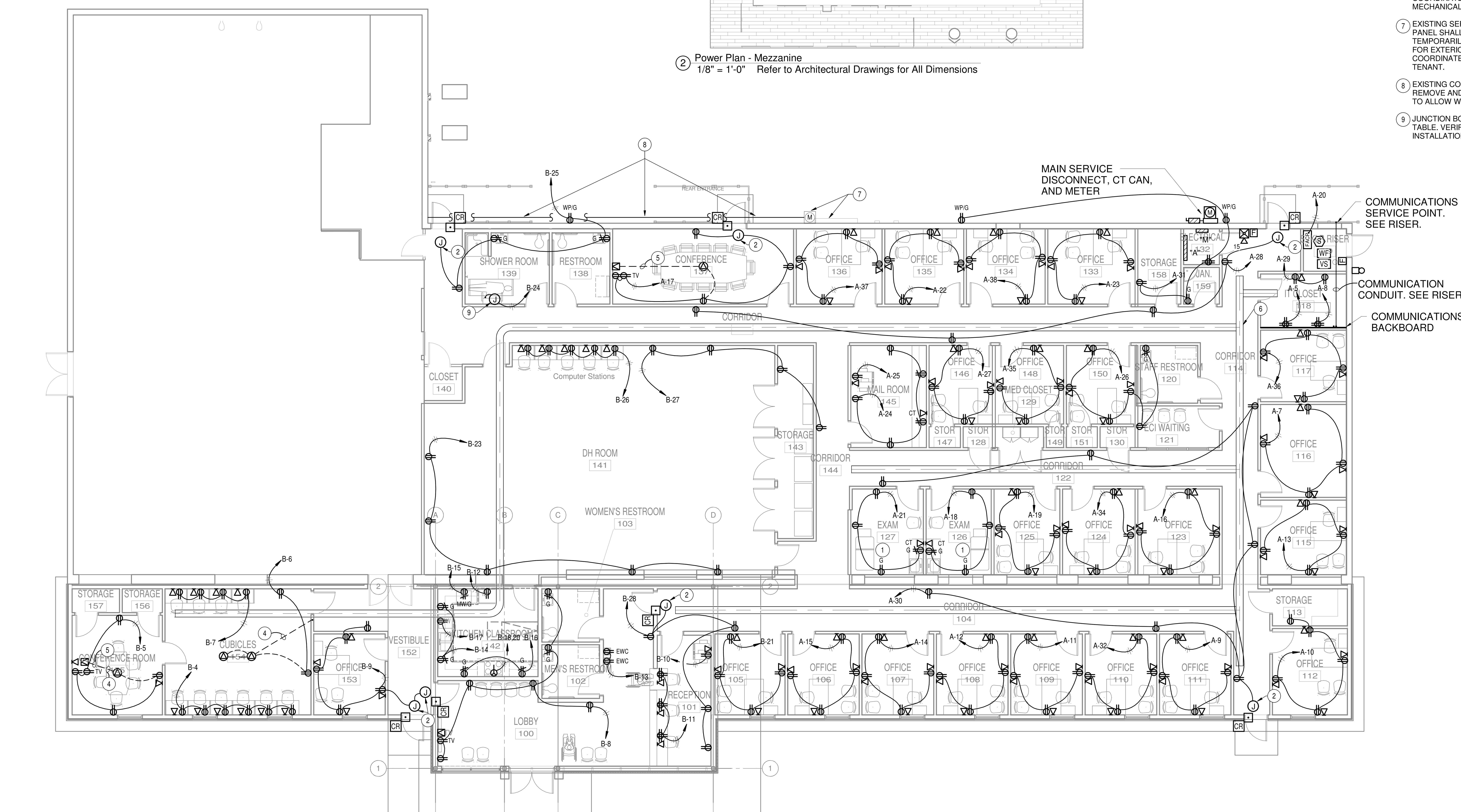
DRAWINGS SHEET TITLE
LIGHTING PLAN

SHEET NUMBER
E300

21061
PROJECT NUMBER



2 Power Plan - Mezzanine
1/8" = 1'-0" Refer to Architectural Drawings for All Dimensions



1 Power & Special Systems Plan
1/8" = 1'-0" Refer to Architectural Drawings for All Dimensions

GENERAL ELECTRICAL NOTES:

1. VERIFY FINAL LOCATIONS OF FLOORBOXES WITH ARCHITECT.

ELECTRICAL NOTES:

1. THIS SPACE IS CLASSIFIED AS A PATIENT CARE AREA PER THE NEC. BRANCH CIRCUITS SHALL BE INSTALLED PER NEC 517.13 ALL BRANCH CIRCUITS IN THIS SPACE SHALL BE INSTALLED IN EMT, RIGID METAL OR IMC WITH AN ADDITIONAL GROUND. THE CONDUIT SHALL ITSELF SERVE AS AN EQUIPMENT GROUNDING RETURN PATH. PROVIDE HOSPITAL GRADE RECEPTACLES IN THIS SPACE.
2. POWER SUPPLY FOR DOOR HARDWARE TO BE LOCATED IN CEILING IN THIS AREA. VERIFY FINAL LOCATION IN THE FIELD.
3. 1/2" CONDUIT WITH 3#12 TO NEAREST AVAILABLE 120V POWER CIRCUIT.
4. (2) 1" CONDUITS WITH PULLSTRING TO ACCESSIBLE CEILING.
5. 1 1/4" CONDUIT WITH PULLSTRING TO TV BOX.
6. 12"W X 6" DEEP WIRE MESH CABLE TRAY ABOVE CEILING. REFER TO SPECIFICATIONS. PROPOSED CABLE TRAY ROUTING SHOWN. COORDINATE ROUTING OF CABLE TRAY IN FIELD TO AVOID MECHANICAL AND ELECTRICAL EQUIPMENT.
7. EXISTING SERVICE WIREWAY AND METER SERVING THE CHURCH PANEL SHALL BE MAINTAINED BUT WILL BE REQUIRED TO BE TEMPORARILLY REMOVED AND SUPPORTED BY UNISTRUT RACK FOR EXTERIOR WALL MATERIAL REPLACEMENT TO OCCUR. COORDINATE ANY NECESSARY OUTAGES WITH OWNER AND TENANT.
8. EXISTING CONDUIT SERVING CHURCH PANEL SHALL REMAIN. REMOVE AND REPLACE EXISTING CONDUIT SUPPORTS IN PHASES TO ALLOW WALL MATERIAL REPLACEMENT TO OCCUR.
9. JUNCTION BOX FOR HARDWIRE CONNECTION TO ADULT CHANGING TABLE. VERIFY EXACT LOCATION OF BOX PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

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ISSUED FOR

SCHEMATIC DESIGN DATE:	☐
DESIGN DEVELOPMENT DATE:	☐
BIDS & CONSTRUCTION DATE: 02/28/2022	☒
REVISION: DATE:	
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REVISION: DATE:	

DRAWINGS SHEET TITLE

POWER & SPECIAL SYSTEMS PLAN

1304 BERTRAND DRIVE SUITE F7
LAFAYETTE, LOUISIANA 70506
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Mechanical Contact: Dustin Duval, P.E.
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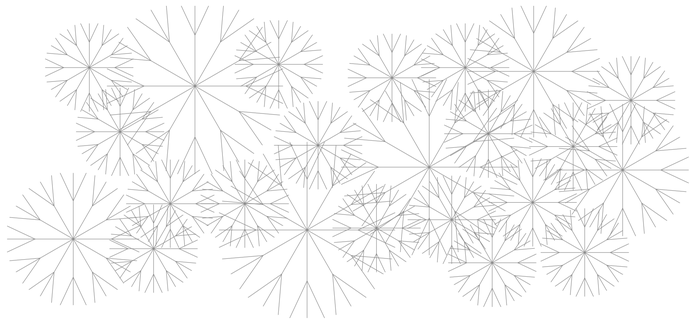
Electrical Contact: David Carroll, P.E.
david@meconsulting.com
CONSULTING
PROJECT No.: 21167.00

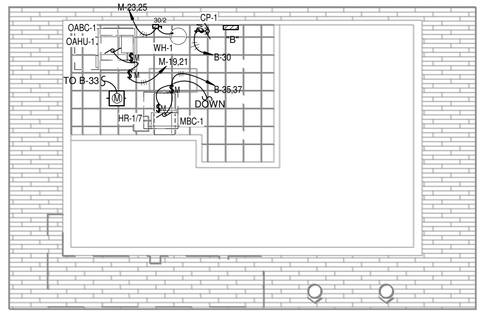
SHEET NUMBER
E400

21061
PROJECT NUMBER

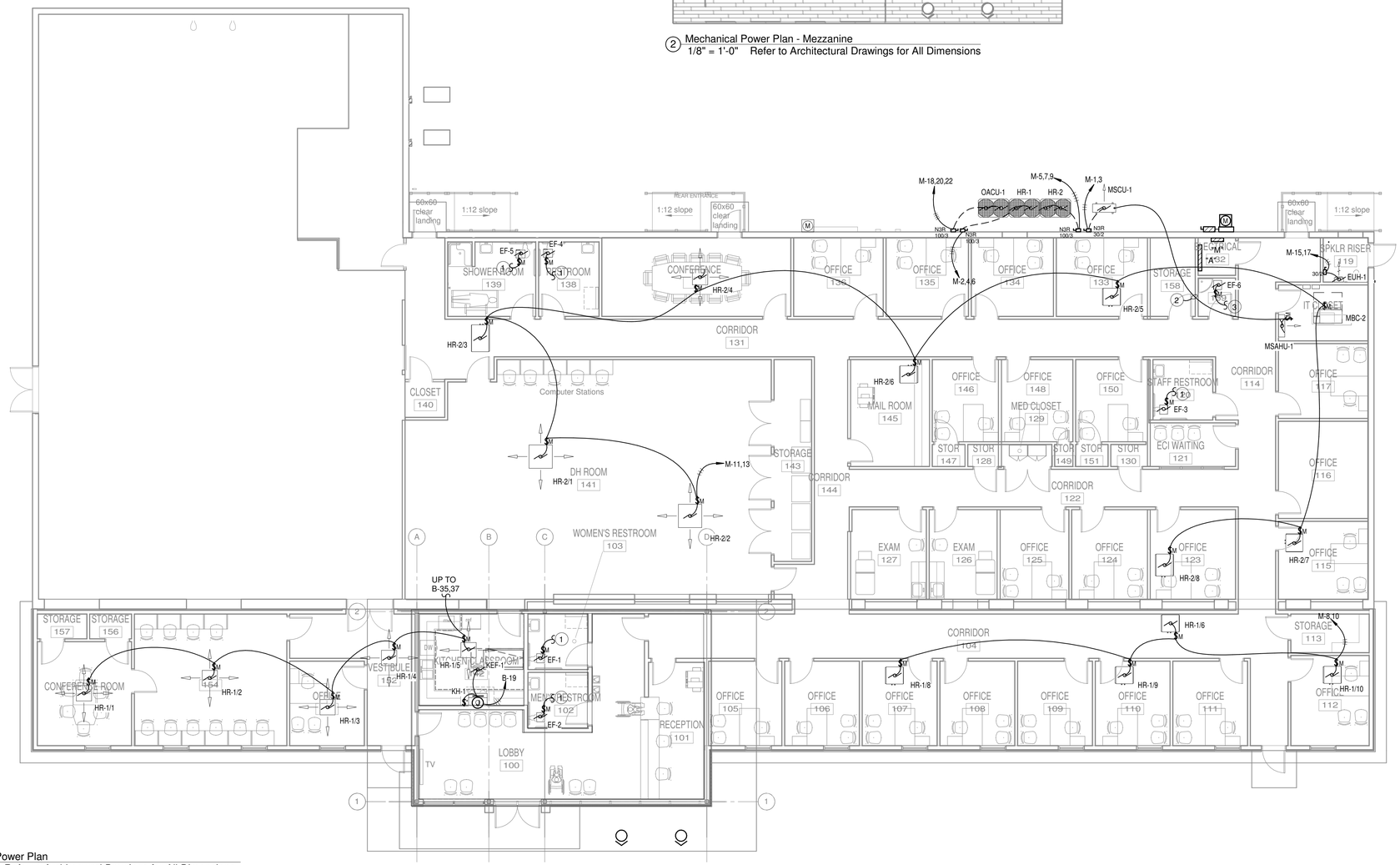
ELECTRICAL NOTES

1	CIRCUIT AND SWITCH WITH LIGHTS IN THIS SPACE.
2	3/4" CONDUIT WITH CABLE PER MANUFACTURER
3	CIRCUIT WITH LIGHTS IN THIS SPACE. COORDINATE SWITCHING WITH MECHANICAL.





② Mechanical Power Plan - Mezzanine
1/8" = 1'-0" Refer to Architectural Drawings for All Dimensions



① Mechanical Power Plan
1/8" = 1'-0" Refer to Architectural Drawings for All Dimensions

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DRAWINGS SHEET TITLE
MECHANICAL POWER PLAN

SHEET NUMBER
E500

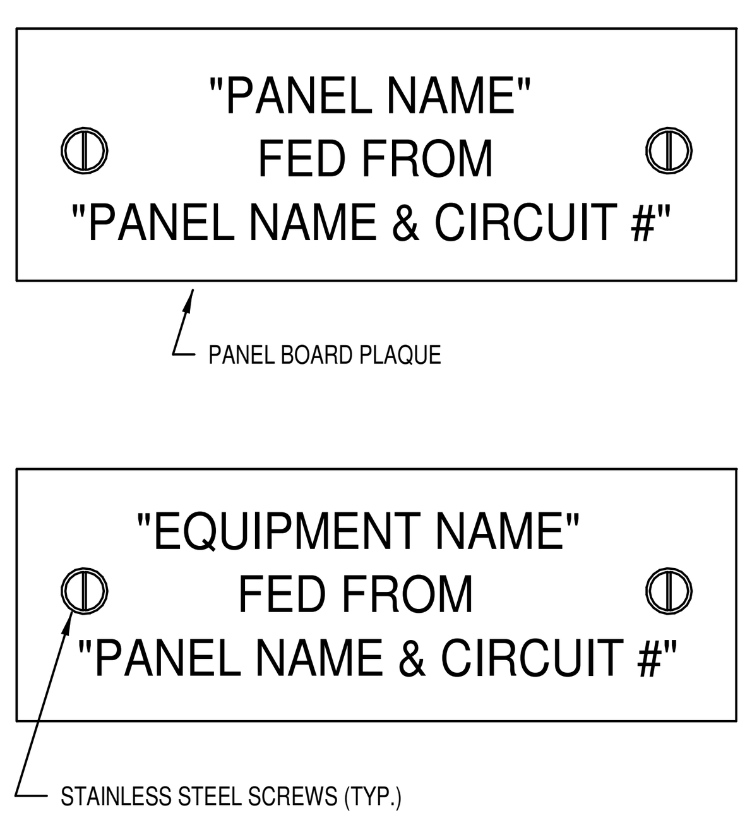
21061
PROJECT NUMBER

LIGHTING FIXTURE SCHEDULE

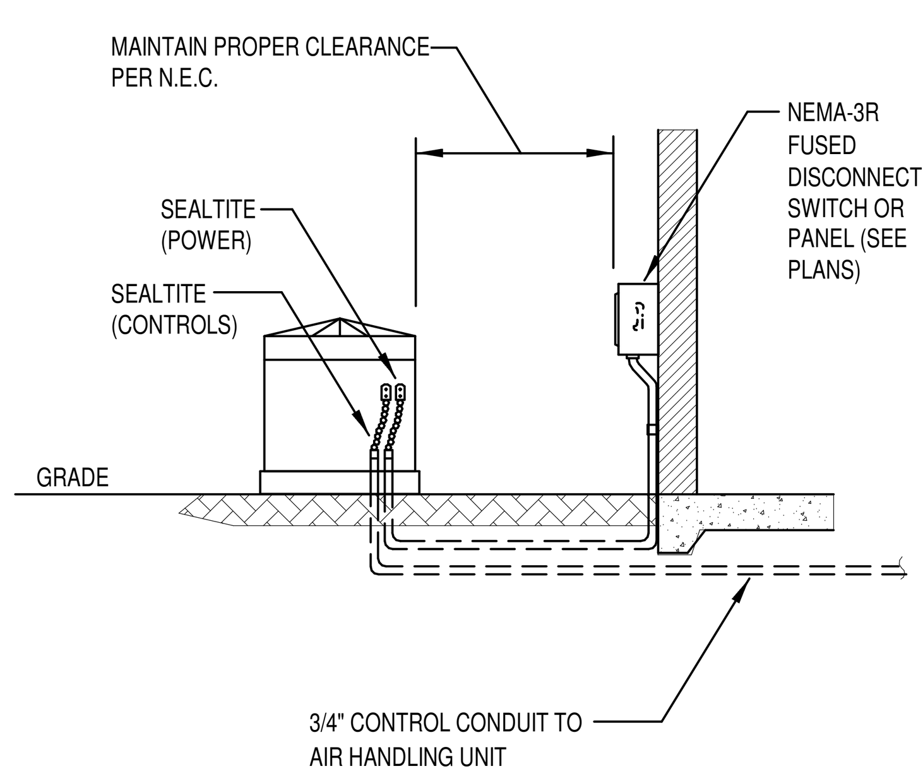
TYPE MARK	DESCRIPTION	LAMP No.	LAMP TYPE	VOLTS	MANUFACTURER	MODEL	COMMENTS
		-					
A2	2'x4' LED LAY-IN TROFFER	-	LED	120	METALUX	24CZ2-40HE-S-UNV-L835-CD1-U	
A2E	2'x4' LED LAY-IN TROFFER W/ BATTERY BACKUP	-	LED	120	METALUX	24CZ2-40HE-S-UNV-EL7W-L835-CD1-U	
A3	2'x4' LED LAY-IN TROFFER	-	LED	120	METALUX	24CZ2-50HE-S-UNV-L835-CD1-U	
A3E	2'x4' LED LAY-IN TROFFER W/ BATTERY BACKUP	-	LED	120	METALUX	24CZ2-50HE-S-UNV-EL7W-L835-CD1-U	
A4	2'x4' LED LAY-IN TROFFER	-	LED	120	METALUX	24CZ2-60HE-S-UNV-L835-CD1-U	
A5	2'x4' LED LAY-IN TROFFER	-	LED	120	METALUX	24CZ2-75HE-S-UNV-L835-CD1-U	
A22	2'x2' LED LAY-IN TROFFER	-	LED	120	METALUX	22CZ2-34HE-S-UNV-L835-CD1-U	
C2	2' LED STRIP LIGHT	-	LED	120	METALUX	2SNLED-LD5-26SL-LW-UNV-L835-CD1-U	
C4	4' LED STRIP LIGHT	-	LED	120	METALUX	4SNLED-LD5-46SL-LW-UNV-L835-CD1-U	
D1	LED DOWN LIGHT	-	LED	120	HALO COMMERCIAL	HC410D010-HM412840-41MDH-FINISH	FLANGE FINISH TO BE SELECTED BY ARCHITECT
D1E	LED DOWN LIGHT W/ BATTERY BACKUP	-	LED	120	HALO COMMERCIAL	HC410D010REM7-HM412840-41MDH-FINISH	FLANGE FINISH TO BE SELECTED BY ARCHITECT
D2	LED DOWN LIGHT	-	LED	120	HALO COMMERCIAL	HC615D010-HM612835-61MDH-FINISH	FLANGE FINISH TO BE SELECTED BY ARCHITECT
D3	LED DOWN LIGHT	-	LED	120	HALO COMMERCIAL	HC630D010-HM612835-61MDH-FINISH	FLANGE FINISH TO BE SELECTED BY ARCHITECT
D3E	LED DOWN LIGHT W/ BATTERY BACKUP	-	LED	120	HALO COMMERCIAL	HC630D010REM7-HM612835-61MDH-FINISH	FLANGE FINISH TO BE SELECTED BY ARCHITECT
DS	LED SHOWER DOWN LIGHT	-	LED	120	HALO COMMERCIAL	HC410D01REM7-HM412835-41MDH-FINISH	FLANGE FINISH TO BE SELECTED BY ARCHITECT
F	LED DECORATIVE PENDANT	-	LED	120	BROWNLEE LIGHTING	2890-24-FINISH-05-FINISH-GLW-35K	FIXTURE FINISH AND CORD COLOR TO BE SELECTED BY ARCHITECT
GE	EXTERIOR LED LIGHT W/ BATTERY BACKUP	-	LED	120	FAIL-SAFE	HVSL4-4-LD4-1-STD--40K-UNV-O-EL7W-FINISH	FINISH TO BE SELECTED BY ARCHITECT
P2	LED POLE LIGHT;SINGLE-HEAD	-	LED	120	MCGRAW-EDISON	GLEON-SA3C-740-U-T4FT-FINISH	FINISH TO BE SELECTED BY ARCHITECT; POLE TO MEET MINIMUM WIND LOAD CRITERIA
PL	25' ROUND, STRAIGHT, STEEL LIGHT POLE	-	-	-	HAPCO	RSS25B5--4-FINISH	FINISH TO BE SELECTED BY ARCHITECT; POLE TO MEET MINIMUM WIND LOAD CRITERIA
X1	SINGLE FACE EXIT LIGHT	-	LED	120	SURE-LITES	CX-7-1-R	

LIGHTING FIXTURE SCHEDULE NOTES:

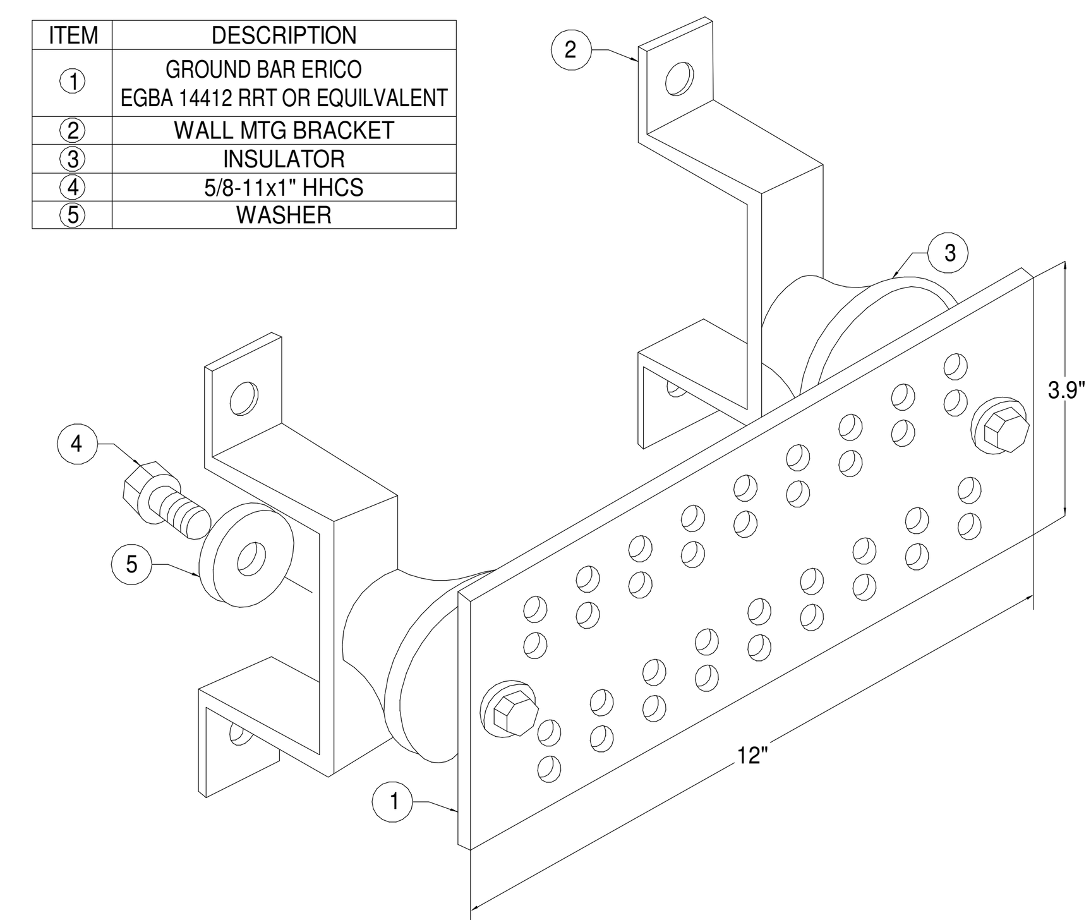
(1) MINIMUM WIND LOAD CRITERIA:
1.) 130MPH - RISK CATEGORY II



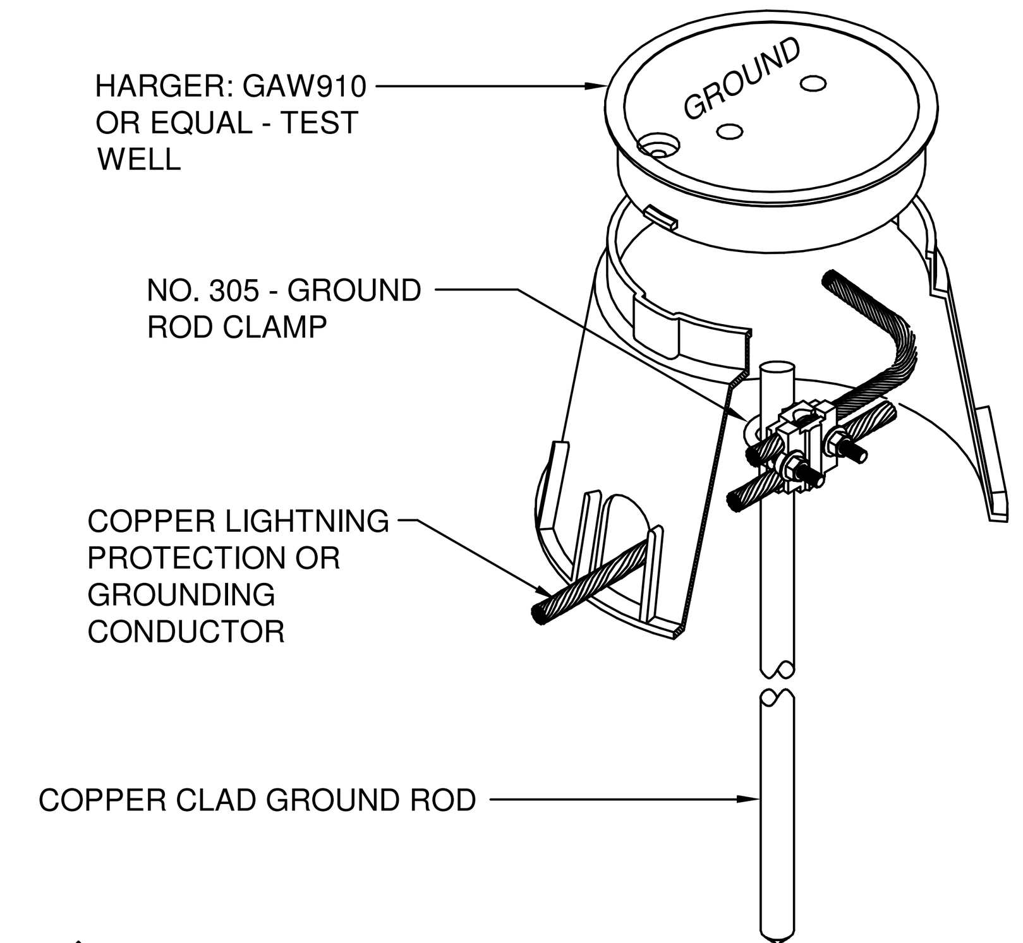
1 PANEL & EQUIPMENT SIGNAGE DETAIL — NO SCALE



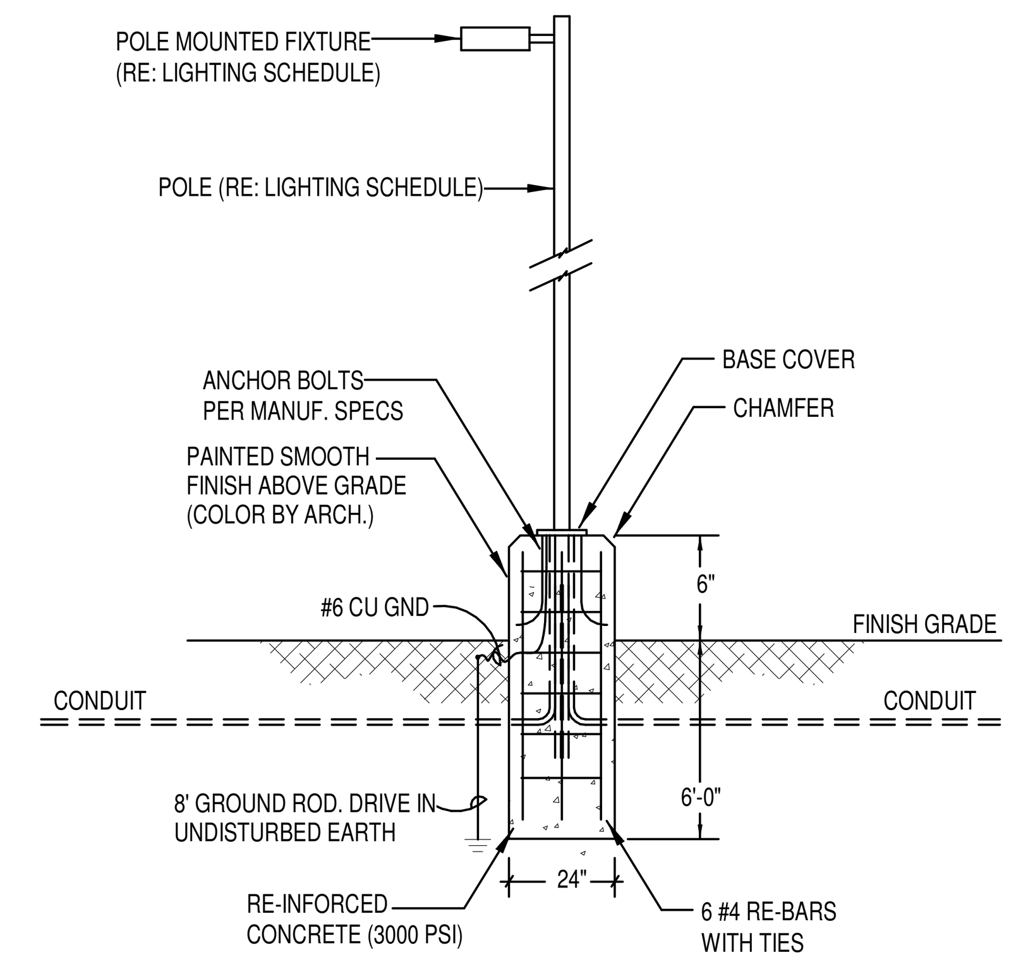
2 CONDENSING UNIT DETAIL — NO SCALE



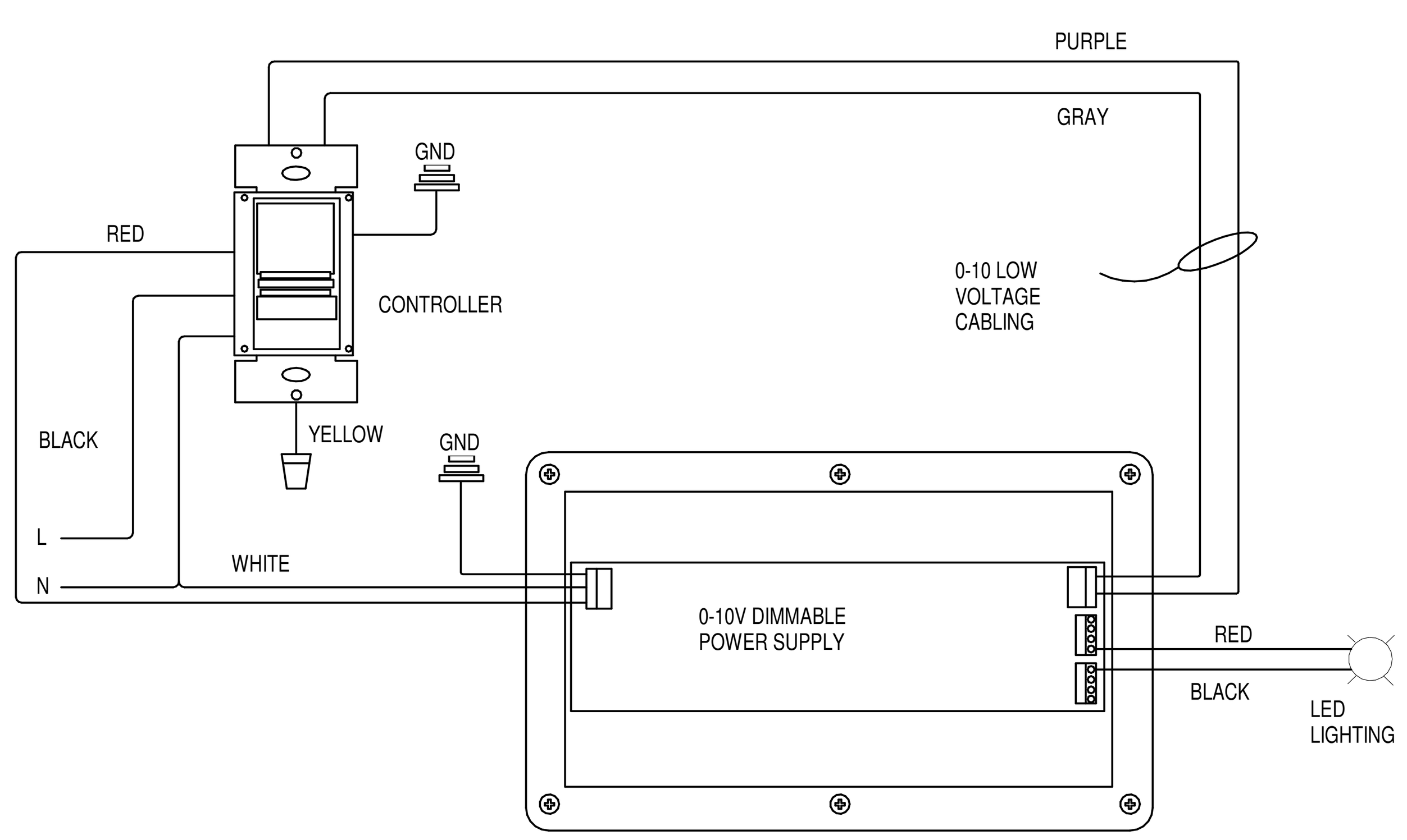
3 TYPICAL COMMUNICATIONS GROUNDING BUSBAR DETAIL — NO SCALE



4 GROUND ACCESS WELL DETAIL — NO SCALE



7 POLE FOUNDATION DETAIL — NO SCALE



5 0-10 VOLT DIMMER DETAIL — NO SCALE

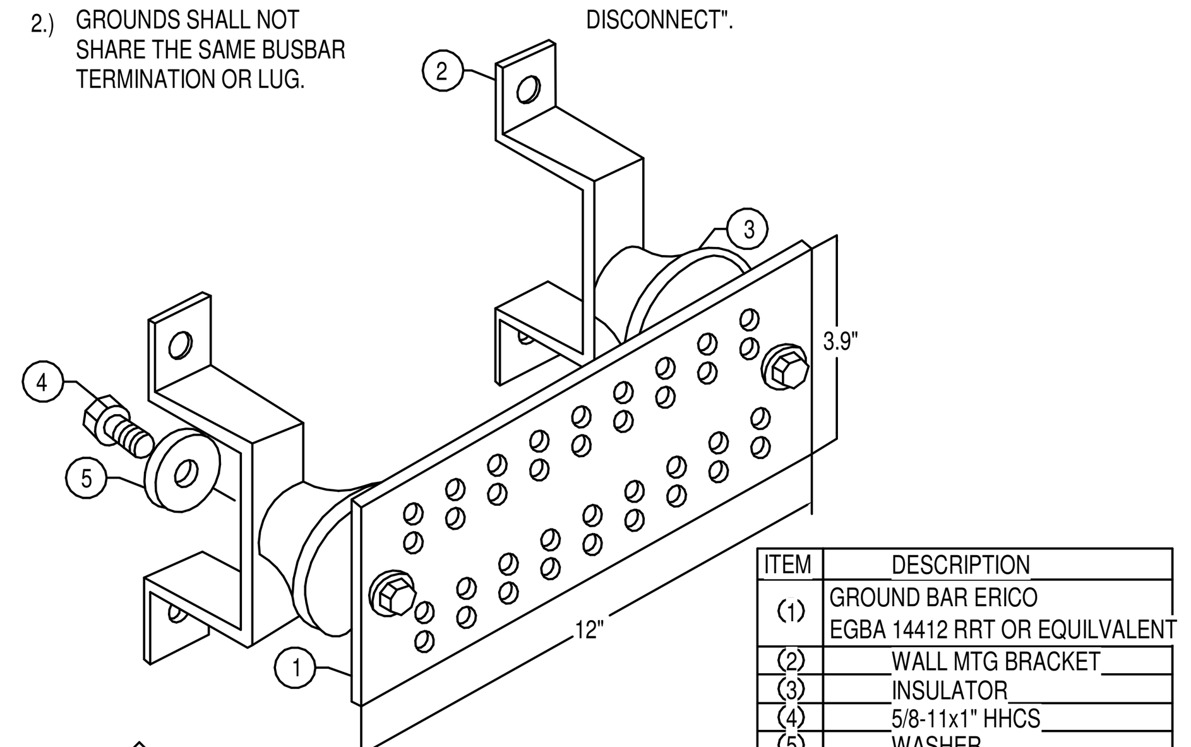
NOTES:

1.) ALL GROUNDS AND BONDING CONDUCTORS SHALL BE LABELED WITHIN 4" OF TERMINATION OF GROUNDING BAR.

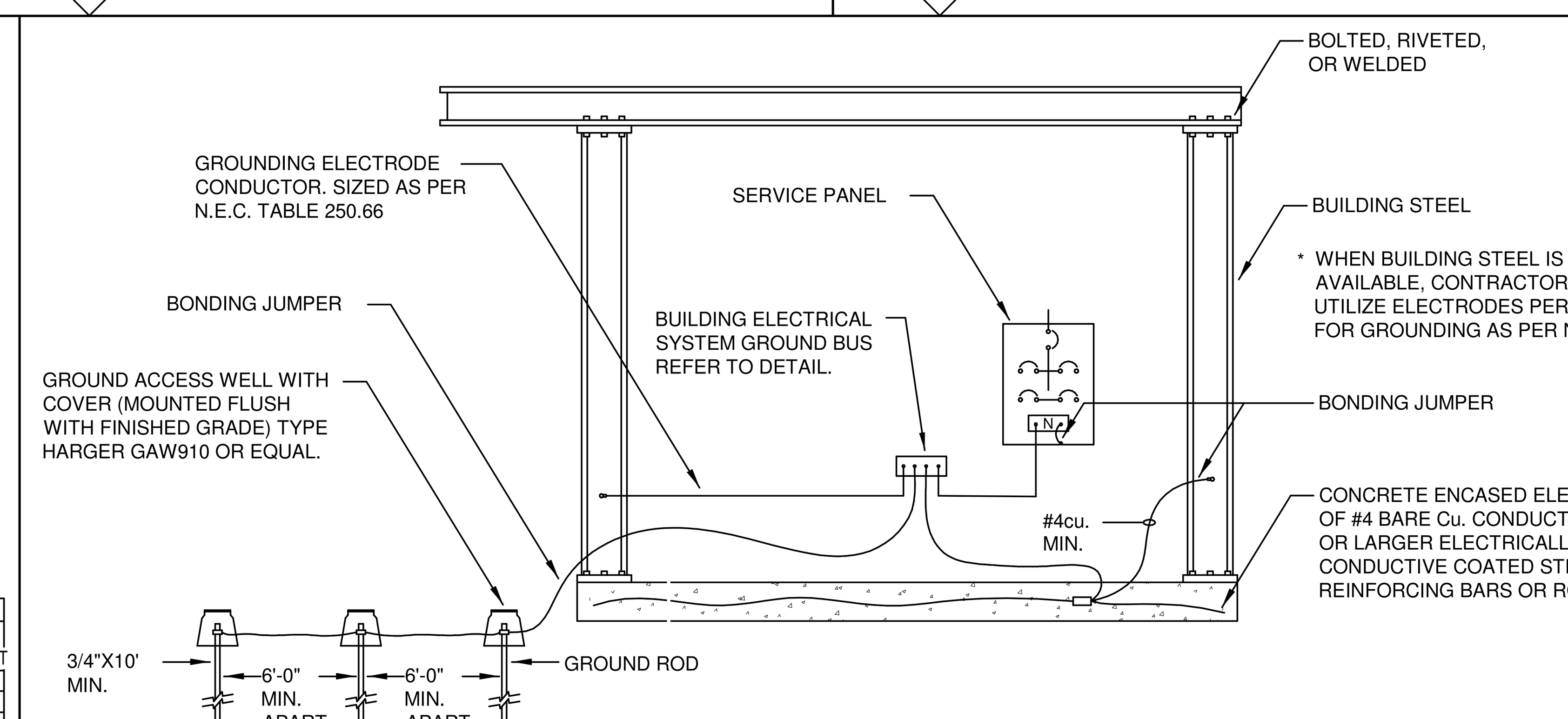
2.) GROUNDS SHALL NOT SHARE THE SAME BUSBAR TERMINATION OR LUG.

3.) ALL MATERIALS, DEVICES, ETC. SALL BE U.L. LISTED.

4.) PROVIDE A LABEL ON WALL ABOVE GROUNDING BUSBAR INDICATING "DO NOT DISCONNECT".



6 BUILDING ELECTRICAL SYSTEM GROUNDING BUSBAR DETAIL — NO SCALE



8 GROUNDING ELECTRODE SYSTEM AND BUSBAR DETAIL — NO SCALE

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DRAWINGS SHEET TITLE
ELECTRICAL SCHEDULE & DETAILS

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Mechanical Contact: Dustin Duval, P.E. dustin@meconsulting.com
Electrical Contact: David Carroll, P.E. david@meconsulting.com
PROJECT No.: 21167.00

SHEET NUMBER
E600

21061
PROJECT NUMBER

Branch Panel: A

Location: ELECTRICAL 132 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 22,000
Mounting: Surface | **Phases:** 3 | **Mains Type:** MLO
Enclosure: Type 1 | **Wires:** 4 | **Mains Rating:** 125 A

General Schedule Notes:

Verify proper working clearances per N.E.C. prior to installation.

Notes	#	Circuit Description	Trip	Poles	Wire	Gnd.	C.	A	B	C	C.	Gnd.	Wire	Poles	Trip	Circuit Description	#	Notes
(1)	1	Exterior Lighting	20	1	2 10	10	3/4"	236						2	1	20 Lighting	2	
	3	Lighting	20	1	2 10	10	3/4"		1396	1381	3/4"	10	10	2	1	20 Lighting	4	
	5	Comm bkbd 118	20	1	2 12	12	1/2"				180	332	3/4"	10	10	2 1 20 Pole Lights	6	(1)
	7	Rec(Off 116)	20	1	2 12	12	1/2"	720	180				1/2"	12	12	2 1 20 Comm bkbd 118	8	
	9	Rec(Off 111)	20	1	2 12	12	1/2"			720	900		1/2"	12	12	2 1 20 Rec(Off 112)	10	
	11	Rec(Off 109)	20	1	2 12	12	1/2"					720	1/2"	12	12	2 1 20 Rec(Off 108)	12	
	13	Rec(Off 115/Hall)	20	1	2 12	12	1/2"	720	720				1/2"	12	12	2 1 20 Rec(Off 107)	14	
	15	Rec(Off 106)	20	1	2 12	12	1/2"			720	720		1/2"	12	12	2 1 20 Rec(Off 123)	16	
	17	Rec(Conf. Rm. 137)	20	1	2 12	12	1/2"					1180	1/2"	12	12	2 1 20 Rec(Exam 126)	18	
	19	Rec(Exam 125)	20	1	2 12	12	1/2"	720	500				1/2"	12	12	2 1 20 FACP 119	20	
	21	Rec(Exam 127)	20	1	2 12	12	1/2"			720	720		1/2"	12	12	2 1 20 Rec(Off 135)	22	
	23	Rec(Off 133)	20	1	2 12	12	1/2"					720	1/2"	12	12	2 1 20 Rec(Mail Rm. 145)	24	
	25	Copier 145	20	1	2 12	12	1/2"	1000	1080				1/2"	12	12	2 1 20 Rec(Off...	26	
	27	Rec(Off 146)	20	1	2 12	12	1/2"			720	720		1/2"	12	12	2 1 20 Rec(Corridor 131)	28	
	29	Rec(IT 118)	20	1	2 12	12	1/2"					360	1260	1/2"	12	12	2 1 20 Rec(Corridors)	30	
	31	Rec(Elec 132)	20	1	2 12	12	1/2"	900	720				1/2"	12	12	2 1 20 Rec(Off 110)	32	
	33	Hot Box	25	1	2 10	10	3/4"			1900	720		1/2"	12	12	2 1 20 Rec(Off 124)	34	
	35	Rec(Off 148)	20	1	2 12	12	1/2"					720	720	1/2"	12	12	2 1 20 Rec(Off 117)	36	
	37	Rec(Off 136)	20	1	2 12	12	1/2"	720	720				1/2"	12	12	2 1 20 Rec(Off 134)	38	
--	39	Space	--	1	-- --	--	--			--	0		--	--	--	-- 3 60 SPD	40	--(3)
--	41	Space	--	1	-- --	--	--					--	0	--	--	-- -- -- --	42	--
--	43	Space	--	1	-- --	--	--	--	0				--	--	--	-- -- -- --	44	--
--	45	Space	--	1	-- --	--	--			--	0		--	--	--	-- 1 20 Spare	46	--
--	47	Space	--	1	-- --	--	--					--	0	--	--	-- -- 1 20 Spare	48	--
--	49	Space	--	1	-- --	--	--	--	0				--	--	--	-- -- 1 20 Spare	50	--
--	51	Space	--	1	-- --	--	--			--	0		--	--	--	-- -- 1 20 Spare	52	--
--	53	Space	--	1	-- --	--	--					--	0	--	--	-- -- 1 20 Spare	54	--
--	55	Space	--	1	-- --	--	--	--	0				--	--	--	-- -- 1 20 Spare	56	--
--	57	Space	--	1	-- --	--	--			--	0		--	--	--	-- -- 1 20 Spare	58	--
--	59	Space	--	1	-- --	--	--					--	0	--	--	-- -- 1 20 Spare	60	--
	61																62	
	63																64	
	65																66	
	67																68	
	69																70	
	71																72	
	73																74	
	75																76	
	77																78	
	79																80	
	81																82	
	83																84	

Total Load:	9 kVA	11 kVA	9 kVA
Total Amps:	75 A	94 A	71 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	500 VA	100.00%	500 VA		
Lighting	3330 VA	125.00%	4163 VA	**Total Conn. Load:**	29 kVA
Receptacles	24960 VA	70.03%	17480 VA	**Total Est. Demand:**	22 kVA
				Total Conn.:	80 A
				Total Est. Demand:	61 A

Panel Schedule Notes: (Notes below do not necessarily appear in panel schedule)

1. CIRCUIT VIA 4 POLE LIGHTING CONTACTOR. CONTROL WITH (2) CIRCUIT INTERMATIC OR EQUAL ASTRONOMICAL TIME CLOCK WITH BATTERY BACKUP AND PHOTOCELL. PHOTOCELL "ON" TIME CLOCK "OFF".
2. PROVIDE GFCI PROTECTED CIRCUIT BREAKER.
3. CONDUIT, WIRE, AND BREAKER SIZE PER MANUFACTURER'S REQUIREMENTS.

Branch Panel: M

Location: ELECTRICAL 132 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 22,000
Mounting: Surface | **Phases:** 3 | **Mains Type:** MLO
Enclosure: Type 1 | **Wires:** 4 | **Mains Rating:** 400 A

General Schedule Notes:

Verify proper working clearances per N.E.C. prior to installation.

Notes	#	Circuit Description	Trip	Poles	Wire	Gnd.	C.	A	B	C	C.	Gnd.	Wire	Poles	Trip	Circuit Description	#	Notes
(1)	1	MSCU-1/MSAHU-1	20	2	2 12	12	3/4"	1165 4128			1 1/4"	8	4	3	3	70 HR-1	2	(1)
--	3	--	--	--	-- --	--	--		1165 4128		--	--	--	--	--	-- --	4	--
(1)	5	HR-2	80	3	3 3	8	1 1/4"			4992 4128	--	--	--	--	--	-- --	6	--
--	7	--	--	--	-- --	--	--	4992 439			1/2"	12	12	2	2	15 HR-1 UNITS	8	(1)
--	9	--	--	--	-- --	--	--		4992 439		--	--	--	--	--	-- --	10	--
(1)	11	HR-2 UNITS	15	2	2 12	12	1/2"			1000 8924	2"	6	1	4	3	125 Panel "A"	12	
--	13	--	--	--	-- --	--	--	1000 112..			--	--	--	--	--	-- --	14	--
(1)	15	EUH-1	20	2	2 12	12	1/2"		1500 8532		--	--	--	--	--	-- --	16	--
--	17	--	--	--	-- --	--	--			1500 4128	1 1/4"	8	4	3	3	70 OACU-1	18	(1)
(1)	19	OAHU-1/OABC-1	20	2	2 12	12	1/2"	312 4128			--	--	--	--	--	-- --	20	--
--	21	--	--	--	-- --	--	--		312 4128		--	--	--	--	--	-- --	22	--
(1)	23	WH-1	30	2	2 10	10	3/4"			2250 0	--	--	--	--	--	3 100 SPD	24	-(4)
--	25	--	--	--	-- --	--	--	2250 0			--	--	--	--	--	-- --	26	--
	27	Panel "B"	125	3	4 1	6	2"		139... 0		--	--	--	--	--	-- --	28	-- (1)
--	29	--	--	--	-- --	--	--			7049 2746	1	10	8	3	2	40 Lift Station	30	(1)
--	31	--	--	--	-- --	--	--	120... 2746			--	--	--	--	--	-- --	32	--
--	33	Space	--	1	-- --	--	--			-- --	--	--	--	--	1	-- Space	34	--
--	35	Space	--	1	-- --	--	--			-- --	--	--	--	--	1	-- Space	36	--
--	37	Space	--	1	-- --	--	--	-- --			--	--	--	--	1	-- Space	38	--
--	39	Space	--	1	-- --	--	--		-- --		--	--	--	--	1	-- Space	40	--
--	41	Space	--	1	-- --	--	--			-- --	--	--	--	--	1	-- Space	42	--

Total Load:	44 kVA	39 kVA	37 kVA
Total Amps:	373 A	330 A	306 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	33375 VA	100.00%	33375 VA		
Heating	3000 VA	100.00%	3000 VA	**Total Conn. Load:**	120 kVA
Motor	5491 VA	100.00%	5491 VA	**Total Est. Demand:**	102 kVA
Lighting	8684 VA	125.00%	10855 VA	**Total Conn.:**	334 A
Water Heater	4500 VA	100.00%	4500 VA	**Total Est. Demand:**	283 A
Condensing Units	14714 VA	100.00%	14714 VA		
Receptacles	50720 VA	59.86%	30360 VA		

Panel Schedule Notes: (Notes below do not necessarily appear in panel schedule)

1. VERIFY BREAKER SIZE PER EQUIPMENT MANUFACTURER'S RECOMMENDED NAME PLATE RATING PRIOR TO SHOP DRAWINGS PHASE OF PROJECT.
2. CIRCUIT VIA _ POLE LIGHTING CONTACTOR. CONTROL WITH (2) CIRCUIT INTERMATIC OR EQUAL ASTRONOMICAL TIME CLOCK WITH BATTERY BACKUP. PHOTOCELL "ON" TIME CLOCK "OFF".
3. PROVIDE GFCI PROTECTED CIRCUIT BREAKER.
4. CONDUIT, WIRE, AND BREAKER SIZE PER MANUFACTURER'S REQUIREMENTS.
5. LABEL AS "MAIN SERVICE DISCONNECT".

Branch Panel: B

Location: | **Volts:** 120/208 Wye | **A.I.C. Rating:** 22,000
Mounting: Surface | **Phases:** 3 | **Mains Type:** MLO
Enclosure: Type 1 | **Wires:** 4 | **Mains Rating:** 125 A

General Schedule Notes:

Verify proper working clearances per N.E.C. prior to installation.

Notes	#	Circuit Description	Trip	Poles	Wire	Gnd.	C.	A	B	C	C.	Gnd.	Wire	Poles	Trip	Circuit Description	#	Notes
(2)	1	Exterior Lighting	20	1	2 10	10	3/4"	153 1455			1/2"	12	12	2	1	20 Lighting	2	
	3	Lighting	20	1	2 12	12	1/2"		1053 1080		1/2"	12	12	2	1	20 Rec(Cubicles 154)	4	
	5	Rec(Conf. Rm. 155)	20	1	2 12	12	1/2"			1080 720	1/2"	12	12	2	1	20 Rec(Cubicles 154)	6	
	7	Rec(Cubicles 154)	20	1	2 12	12	1/2"	720 1260			1/2"	12	12	2	1	20 Rec(Lobby 100/RR)	8	
	9	Rec(Off 153)	20	1	2 12	12	1/2"		900 1000		1/2"	12	12	2	1	20 Copier 101	10	
	11	Rec(Reception 101)	20	1	2 12	12	1/2"			540 1200	1/2"	12	12	2	1	20 Refrigerator 142	12	(3)
(3)	13	EWC's	20	1	2 12	12	1/2"	1000 360			1/2"	12	12	2	1	20 Rec(Kitchen 142)	14	
	15	Microwave 142	20	1	2 12	12	1/2"		180 360		1/2"	12	12	2	1	20 Rec(Kitchen 142)	16	
(3)	17	Dish Washer 142	20	1	2 12	12	1/2"			1000 4160	1"	10	6	2	2	50 Stove	18	(5)
(1)	19	KH-1/KEF-1	20	1	2 12	12	1/2"	500 4160			--	--	--	--	--	-- --	20	--
	21	Rec(Off 105/Recep)	20	1	2 12	12	1/2"		720 0		--	--	--	--	1	20 Spare	22	--
	23	Rec(DH Rm 141)	20	1	2 12	12	1/2"			900 500	1/2"	12	12	2	1	20 Changing Table 139	24	
	25	Rec(Exterior & RRs)	20	1	2 12	12	1/2"	720 900			1/2"	12	12	2	1	20 Rec(DH Rm 141)	26	
	27	Rec(DH Rm. 141)	20	1	2 12	12	1/2"		720 720		1/2"	12	12	2	1	20 Rec(Corridor 104)	28	
(2)	29	Lobby Sign	20	1	2 12	12	1/2"			600 600	1/2"	12	12	2	1	20 CP-1	30	(1)
(2)	31	Exterior Sign	20	1	2 12	12	1/2"	1200 958			1/2"	12	12	2	1	20 Lighting	32	(4)
	33	Rec(Mezzanine)	20	1	2 12	12	1/2"		360 0		--	--	--	--	3	60 SPD	34	--
(1)	35	HR-1-7...	15	2	2 12	12	1/2"			708 0	--	--	--	--	--	-- --	36	--
--	37	--	--	--	-- --	--	--	708 0			--	--	--	--	--	-- --	38	--
--	39	Spare	20	1	-- --	--	--		0 0		--	--	--	--	1	20 Spare	40	--
--	41	Spare	20	1	-- --	--	--			0 0	--	--	--	--	1	20 Spare	42	--

Total Load:	14 kVA	7 kVA	12 kVA
Total Amps:	123 A	59 A	106 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	2015 VA	100.00%	2015 VA		
Lighting	5360 VA	125.00%	6699 VA	**Total Conn. Load:**	33 kVA
Receptacles	25760 VA	69.41%	17880 VA	**Total Est. Demand:**	26 kVA
				Total Conn.:	92 A
				Total Est. Demand:	74 A

Panel Schedule Notes: (Notes below do not necessarily appear in panel schedule)

1. VERIFY BREAKER SIZE PER EQUIPMENT MANUFACTURER'S RECOMMENDED NAME PLATE RATING PRIOR TO SHOP DRAWINGS PHASE OF PROJECT.
2. CIRCUIT VIA 4 POLE LIGHTING CONTACTOR. CONTROL WITH (2) CIRCUIT INTERMATIC OR EQUAL ASTRONOMICAL TIME CLOCK WITH BATTERY BACKUP AND PHOTOCELL. PHOTOCELL "ON" TIME CLOCK "OFF".
3. PROVIDE GFCI PROTECTED CIRCUIT BREAKER.
4. CONDUIT, WIRE, AND BREAKER SIZE PER MANUFACTURER'S REQUIREMENTS.
5. PROVIDE SHUNT TRIP BREAKER TO DE-ENERIGIZE EQUIPMENT SERVING UPON ACTIVATION OF FIRE SUPPRESSION SYSTEM. PROVIDE ALL NECESSARY WIRING.

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ISSUED FOR
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DATE: 03/07/2022
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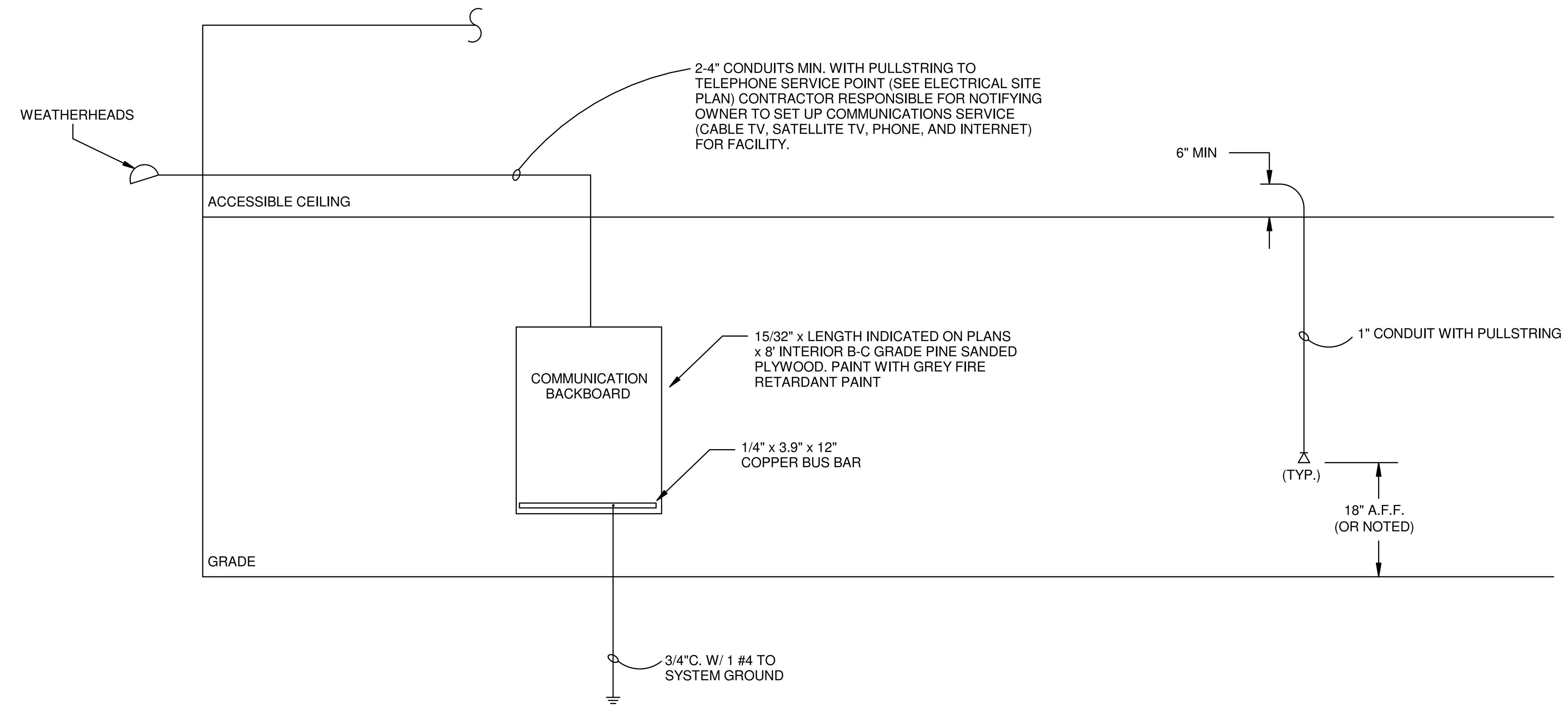
DATE:

DRAWINGS SHEET TITLE
ELECTRICAL PANEL SCHEDULES

SHEET NUMBER
E700R1

21061
PROJECT NUMBER

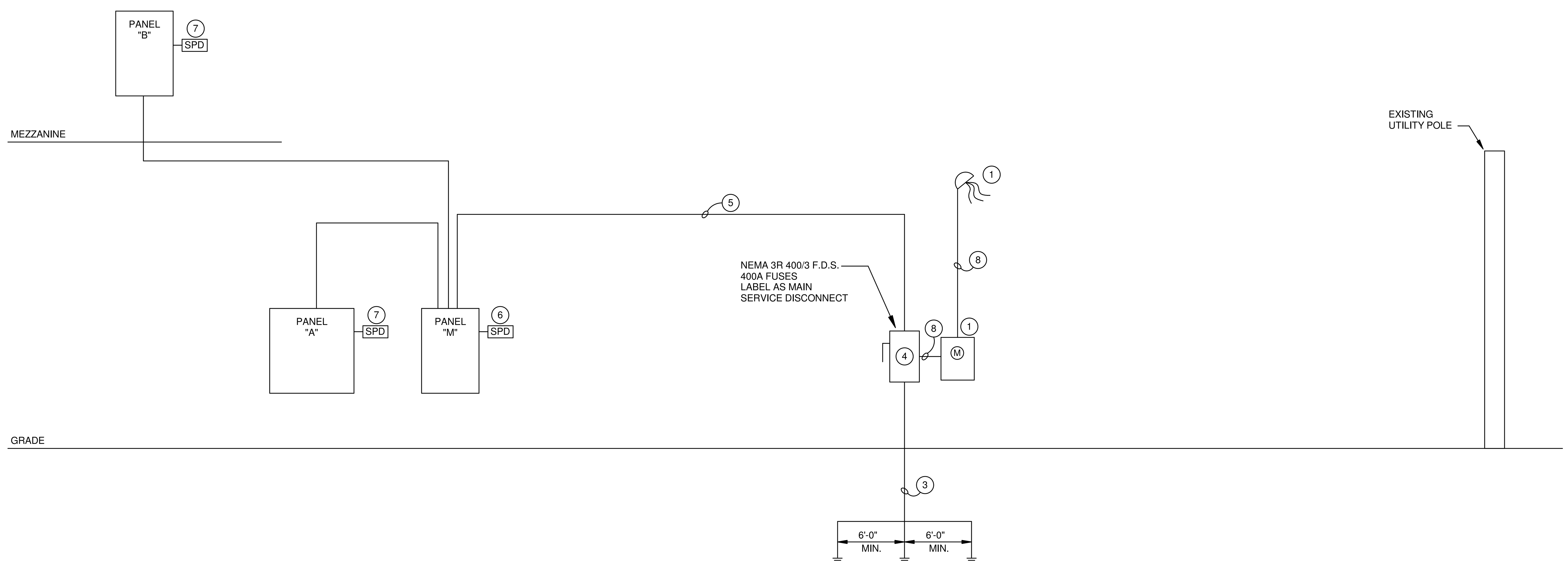


COMMUNICATIONS RISER
NO SCALE

LOAD SUMMARY

120/208V - 3 PHASE - 4 WIRE

SERVING	CONNECTED (KVA)	MULTIPLIER	DEMAND (KVA)
LIGHTING	8.5	1.25	10.7
OUTLETS	48.4	[(X-10)/2]+10	29.2
WATER HEATER	4.5	1.0	4.5
AIR HANDLING UNIT	33.4	1.0	33.4
CONDENSING UNITS	14.7	1.0	14.7
HEATING	3	1.0	3
		TOTAL KVA =	95.5
		TOTAL AMPS =	265.3



ELECTRICAL RISER
NO SCALE

ELECTRICAL RISER NOTES:

1. COORDINATE ALL ASPECTS OF SERVICE AND METERING WITH POWER COMPANY. ELECTRICAL CONTRACTOR TO PROVIDE METERING C.T. CABINETS AND UNISTRUT RACK(S) IN CONCRETE FOOTINGS.
2. REFER TO PANEL SCHEDULES FOR FEEDER SIZES, INSTALL PROPERLY SIZED NEUTRALS AND GROUNDING CONDUCTORS WITH ALL FEEDERS.
3. 1/0 CU. GROUND IN 3/4" CONDUIT TO (3)3/4"x10' COPPER CLAD GROUND RODS, BUILDING STEEL, AND CONCRETE REINFORCEMENT RODS. (SEE DETAIL)
4. THE CONTRACTOR SHALL LABEL THE MAIN SERVICE DISCONNECTING MEANS WITH THE MAXIMUM AVAILABLE FAULT CURRENT, AND IT SHALL BE LISTED ON THE DEVICE TO MEET THE REQUIREMENTS OF NFPA 70:110.24. THE LABELING SHALL BE ENGRAVED PLASTIC. THE MAXIMUM AVAILABLE FAULT CURRENT SHALL BE OBTAINED FROM THE ELECTRICAL UTILITY COMPANY FOR THE SECONDARY SIDE OF THE UTILITY TRANSFORMER.
5. 4" CONDUIT WITH 4#500 KCMIL, 1#1/0 BONDING JUMPER.
6. SERVICE ENTRANCE TYPE SURGE PROTECTION DEVICE PER SPECIFICATIONS.
7. BRANCH PANEL TYPE SURGE PROTECTION DEVICE PER SPECIFICATIONS.
8. 4" CONDUIT WITH 4#500 KCMIL

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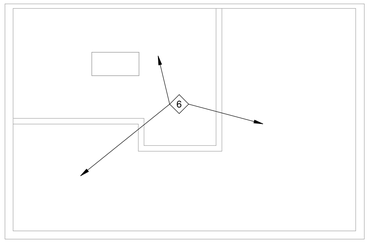
DRAWINGS SHEET TITLE
ELECTRICAL RISERS

SHEET NUMBER
E800

21061
PROJECT NUMBER



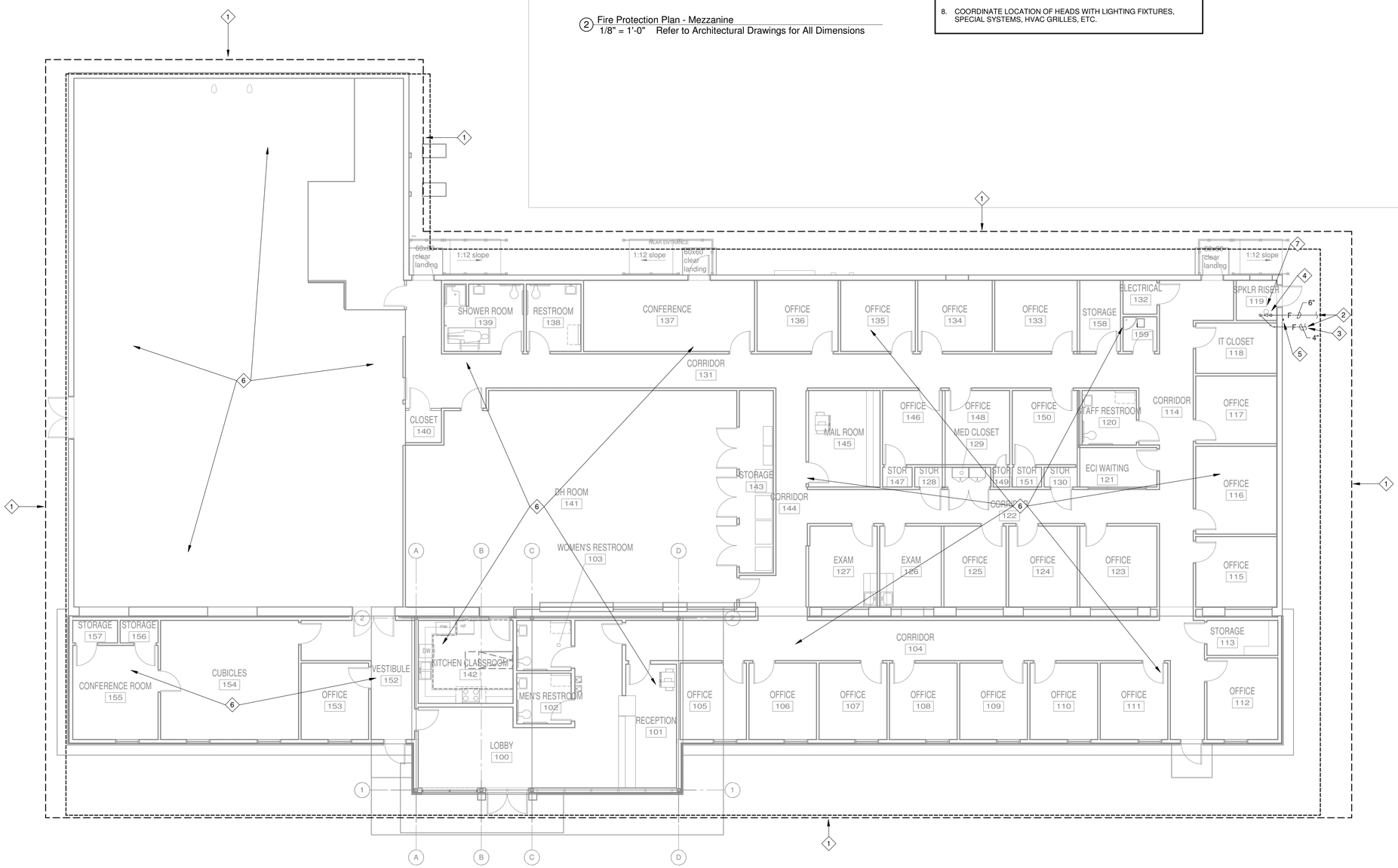
2 Fire Protection Plan - Mezzanine
1/8" = 1'-0" Refer to Architectural Drawings for All Dimensions

GENERAL NOTES:

1. WET SPRINKLER SYSTEM SHALL BE INSTALLED AS PER N.F.P.A. 13 REQUIREMENTS.
2. COORDINATE SPRINKLER HEAD TYPE WITH ARCHITECTURAL REFLECTED CEILING PLAN. ALL HEADS WITHIN CEILING SHALL BE FULLY CONCEALED.
3. ALL SPRINKLER HEADS IN GRID CEILING SHALL BE CENTERED IN TILE.
4. ALL UPRIGHT TYPE HEADS SHALL HAVE A PROTECTED WIRE GUARD.
5. ALL PENETRATIONS THRU FIRE RATED CEILING/WALL ASSEMBLIES SHALL BE PROPERLY SEALED WITH FIRE RATED SEALANT. REFER TO ARCHITECTURAL DRAWINGS FOR RATED LOCATIONS.
6. PROVIDE SYSTEM DRAINING TO PREVENT TRAPING OF WATER IN SYSTEM AS REQUIRED. LOCATIONS SHALL BE APPROVED BY ARCHITECT.
7. CONTRACTOR SHALL SUBMIT A PRELIMINARY HEAD LAYOUT AND PIPE ROUTING FOR REVIEW BY ARCHITECT AND ENGINEER PRIOR TO SUBMITTING STATE FIRE MARSHAL PACKAGE.
8. COORDINATE LOCATION OF HEADS WITH LIGHTING FIXTURES, SPECIAL SYSTEMS, HVAC GRILLES, ETC.

FIRE PROTECTION NOTES:

1. WET PIPE FIRE PROTECTION SYSTEM TO BE PROVIDED FOR BUILDING AS PER N.F.P.A. 13 REQUIREMENTS.
2. REFER TO ARCHITECTURAL SITE DRAWINGS FOR CONTINUATION.
3. EXTEND TO FIRE DEPARTMENT CONNECTION. REFER TO ARCHITECTURAL SITE DRAWINGS FOR LOCATION.
4. SPRINKLER ENTRY FOR WET PIPE SYSTEM.
5. ELECTRIC BELL FOR SPRINKLER SYSTEM WATER ALARM MOUNTED ON THE EXTERIOR WALL INTERLOCKED WITH FIRE ALARM SYSTEM.
6. WET PIPE FIRE PROTECTION SYSTEM WITHIN ATTIC SPACE. SYSTEM SHALL PROTECT ATTIC SPACE AND BUILDING AS PER N.F.P.A. 13 REQUIREMENTS.
7. CONTRACTOR SHALL DESIGN THE SYSTEM BASED ON TEST RESULTS OF 62 PSI STATIC PRESSURE, 42 PSI RESIDUAL PRESSURE, 25 PITOT & 840 GPM THAT WAS PERFORMED ON 2-23-2022 AND ALLOW FOR A MINIMUM OF 5 PSI SAFETY FACTOR OR LOCAL AHJ REQUIRED SAFETY FACTOR IF GREATER.



1 Fire Protection Plan
1/8" = 1'-0" Refer to Architectural Drawings for All Dimensions

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02-28-2022

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DRAWINGS SHEET TITLE
FIRE PROTECTION PLAN

SHEET NUMBER
FP100

21061
PROJECT NUMBER

DEFINE

PLUMBING & SPRINKLER ABBREVIATIONS

AD	ACCESS DOOR
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AV	ACID VENT
AW	ACID WASTE
BOP	BOTTOM OF PIPE
BP	BACKFLOW PREVENTER
BT	BATH TUB
BTUH	BRITISH THERMAL UNITES PER HOUR
C	CONDENSATE DRAIN LINE
CA	COMPRESSED AIR LINE
CB	CATCH BASIN
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
CO	CLEANOUT
CSS	CLINIC SERVICE SINK
CP	CIRCULATING WATER PUMP
D	DRAIN LINE
DF	DRINKING FOUNTAIN
DCW	DOMESTIC COLD WATER LINE
DHR	DOMESTIC HOT WATER RETURN LINE
DHW	DOMESTIC HOT WATER LINE
DS	DRENCH SHOWER
DSEW	DRENCH SHOWER WITH EYE WASH
DT	DILUTION TRAP
DW	DISHWASHER
ET	EXPANSION TANK
EW	EYE WASH
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FFE	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
FS	FLOOR SINK
GD	GARBAGE DISPOSAL
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GT	GREASE TRAP
GWH	GAS FIRED WATER HEATER
HB	HOSE BIB
HD	HUB DRIAN
HP	HORSE POWER
HS	HOSE STATION
HW	HAND WASH
ICE	ICE MACHINE WATER CONNECTION
L	LAVATORY
LS	LIFT STATION (SANITARY SEWER)
MH	MANHOLE
MV	MIXING VALVE
N.O.	NORMALLY OPEN
N.C.	NORMALLY CLOSED
NTS	NOT TO SCALE
P	PUMP
PIV	POST INDICATING VALVE
PRV	PRESSURE REDUCING VALVE
PSIG	POUNDS PER SQUARE INCH GAGE
PT	PLASTER TRAP
REF	REFRIGERATOR WATER CONNECTION BOX
RD	ROOF DRAIN
RPM	REVOLUTIONS PER MINUTE
SAN	SANITARY SEWER
SD	STORM DRAIN
SF	SQUARE FOOT
SH	SHOWER
SK	SINK
SMH	SEWER MANHOLE
SS	SERVICE SINK
STP	SEWER TREATMENT PLANT
TD	TRENCH DRAIN
TP	TRAP PRIMER
TYP	TYPICAL
U	URINAL
UNO	UNLESS NOTED OTHERWISE
V	VENT
VAC	VACUUM
VB	VACUUM BREAKER
VTR	VENT THRU ROOF
W	WASHER WATER/DRAIN CONNECTION LINE
WC	WATER CLOSET
WCO	WALL CLEANOUT
WF	WASH FOUNTAIN
WG	WATER GAGE
WP	WHIRL POOL
ZVB	ZONE VALVE BOX (MEDICAL GAS)

DESIGN

PLUMBING & SPRINKLER LEGEND

PIPING

EXISTING	DEMO	NEW	DESCRIPTION
	DCW	DCW	DOMESTIC COLD WATER LINE
	DHW	DHW	DOMESTIC HOT WATER LINE (110°)
	DHR	DHR	DOMESTIC HOT WATER RETURN LINE
(X°F)	(X°F)	(X°F)	DOMESTIC HOT WATER LINE (X=TEMP.)
			SANITARY SEWER LINE (SAN)
V	V	V	SANITARY SEWER VENT LINE
SD	SD	SD	STORM DRAIN LINE (PRIMARY)
OSD	OSD	OSD	OVERFLOW STORM DRAIN LINE (SECONDARY)
C	C	C	CONDENSATE DRAIN LINE
GW	GW	GW	GREASE WASTE DRAIN LINE
AW	AW	AW	ACID WASTE DRAIN LINE
F	F	F	FIRE MAIN WATER LINE
S	S	S	SPRINKLER LINE
G	G	G	NATURAL GAS LINE
LP	LP	LP	PROPANE GAS LINE
CA	CA	CA	COMPRESSED AIR LINE
RO	RO	RO	REVERSE OSMOSIS PURE WATER SUPPLY LINE
ROR	ROR	ROR	REVERSE OSMOSIS PURE WATER RETURN LINE
DI	DI	DI	DIONIZED PURE WATER SUPPLY LINE
O	O	O	OXYGEN LINE (MEDICAL)
VAC	VAC	VAC	VACUUM LINE (MEDICAL)
N	N	N	NITROGEN LINE (MEDICAL)
NO	NO	NO	NITROUS OXIDE (MEDICAL)
MA	MA	MA	AIR (MEDICAL)
WAGD	WAGD	WAGD	WASTE ANESTHETIC GAS DISPOSAL

PIPE FITTING

EXISTING	DEMO	NEW	DESCRIPTION
			CAPPED PIPE
			PIPE RISE
			PIPE DROP
			UNION
			DIRECTION OF FLOW
			PIPE SUPPORT OR BRACING
			PIPE CONNECTION (TOP)
			PIPE CONNECTION (BOTTOM)
			PIPE CONNECTION (SIDE)
			CAPPED OUTLET TOP
			PIPE REDUCER AND/OR INCREASER

VALVES

EXISTING	DEMO	NEW	DESCRIPTION
			BALL VALVE (SHUT-OFF)
			BALL VALVE (SHUT-OFF)
			SHUT-OFF VALVE IN CAST IRON VALVE BOX
			CALIBRATED BALANCING VALVE
			CHECK VALVE
			OS&Y VALVE
			GAS COCK
			BUTTERFLY VALVE
			VALVE IN RISE
			2-WAY CONTROL VALVE
			3-WAY CONTROL VALVE

EQUIPMENT

EXISTING	DEMO	NEW	DESCRIPTION
			PLUMBING FIXTURES
M	M	M	METER
R	R	R	REGULATOR

SYMBOL (MISC.)

EXISTING	DEMO	NEW	DESCRIPTION
			CONNECT TO EXISTING SERVICES

NOTES:
1. EXISTING ITEMS ON DEMO PLANS ARE "EXISTING TO REMAIN" UNLESS NOTED "EXISTING TO BE RELOCATED..
2. ITEMS ON NEW CONSTRUCTION PLANS ARE NEW UNLESS NOTED "RELOCATED FROM PREVIOUS LOCATION". REFER TO SCHEDULES AND SPECIFICATIONS FOR PLUMBING FIXTURES.
3. NOT ALL ITEMS SHOWN ON THIS LIST MAY BE APPLICABLE TO THIS PROJECT.

DELIVER

PLUMBING & SPRINKLER GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE AND DETERMINE THE EXTENT OF DEMOLITION WORK AND NEW WORK NEEDED FOR THIS PROJECT, PRIOR TO SUBMITTING BID.
2. CONTRACTOR SHALL BECOME FAMILIAR WITH THE PROJECT SCOPE, CONSTRAINTS, UTILITY CONNECTIONS, AND BUILDING SERVICES, PRIOR TO SUBMITTING BID.
3. CONTRACTOR SHALL GIVE FIRST RIGHT TO REFUSAL OF SALVAGE TO THE OWNER. IF THE OWNER ELECTS TO NOT KEEP SALVAGE, CONTRACTOR SHALL REMOVE SALVAGE BY LAWFUL MEANS.
4. DRAWINGS ARE SCHEMATIC AND DIAGRAMMATIC IN NATURE. DRAWINGS SHALL NOT BE SCALED. COORDINATE ROUTING OF SERVICES WITH SITE CONDITIONS AND WITH WORK OF OTHER TRADES.
5. FIELD VERIFY DIMENSIONS PRIOR TO ORDERING, FABRICATING, AND ERECTION OF MATERIAL AND/OR EQUIPMENT. NOTIFY THE ENGINEER OF DISCREPANCIES IN A TIMELY MANNER.
6. VERIFY CLEARANCE REQUIREMENTS AND ROUTING OF PIPING PRIOR TO FABRICATION. AS MINOR MODIFICATIONS SUCH AS PIPING RISES AND DROP MAY BE REQUIRED DUE TO FIELD CONDITIONS. MAKE MINOR MODIFICATIONS TO THE BUILDING, PIPING, SPRINKLER, DUCTWORK, ELECTRICAL, ETC. AS SHOWN ON THE DRAWINGS OR REQUIRED TO COMPLETE THE INSTALLATION OF A COMPLETED WORKABLE SYSTEM.
7. MAINTAIN WEATHER-TIGHT BARRIERS TO PREVENT DAMAGE FROM THE ELEMENTS DURING DEMOLITION AND NEW CONSTRUCTION PERIOD.
8. SEAL PENETRATIONS THROUGH THE BUILDING ENVELOPE.
9. PENETRATIONS THROUGH RATED WALLS, FLOORS, PARTITIONS AND ASSEMBLIES SHALL BE INSTALLED AND FIRESAFED TO MEET UL. FIRE RESISTANCE LISTING AND NFPA REQUIREMENTS FOR THE PENETRATION.
10. COORDINATE DEVICES REQUIRING ACCESS PANELS WITH THE ARCHITECT AND OTHER TRADES.
11. MAINTAIN MINIMUM CLEARANCE 10'-0" BETWEEN OUTSIDE INTAKES AND EXHAUST OUTLETS AND PLUMBING VENTS.
12. COORDINATE FINAL LOCATIONS AND ELEVATIONS WITH THE ARCHITECT PRIOR TO INSTALLATION.
13. COORDINATE FINAL FINISH COLORS OF MATERIALS, DEVICES, AND/OR EQUIPMENT WITH THE ARCHITECT PRIOR TO ORDERING, FABRICATION AND INSTALLATION.
14. SCHEDULE UTILITY SERVICES SHUTDOWNS WITH OWNER AND ARCHITECT. MINIMIZE DISRUPTIONS AND DOWNTIME TO THE OWNER.
15. INSTALL DEVICES AND EQUIPMENT TO MEET ADA REQUIREMENTS.
16. ROUTE PIPING CONCEALED IN INTERSTITIAL SPACE UNLESS NOTED OTHERWISE.
17. DOCUMENT LOCATIONS OF DEVICES, PIPING, AND EQUIPMENT ON "AS-BUILT" RECORD DRAWINGS AS PER THE SPECIFICATIONS.
18. PAY FOR SERVICE, DEPOSITS, INSPECTION, AND CONNECTION FEES REQUIRED FOR A COMPLETE INSTALLATION. COORDINATE WITH THE UTILITY SERVICE PROVIDER FOR THE REQUIREMENTS NEEDED FOR THIS PROJECT. COORDINATE WITH THE UTILITY SERVICE PROVIDER FOR THE REQUIREMENTS NEEDED FOR THIS PROJECT.
19. WORK SHOWN IN THE DRAWINGS SHALL COMPLY WITH APPLICABLE NATIONAL, STATE, AND LOCAL ORDINANCES AND CODES.
20. ALL EXPOSED DOMESTIC COLD AND HOT WATER PIPING WITHIN THE BUILDING SHALL HAVE FIELD INSTALL PVC JACKET.
21. WATER HAMMER ARRESTER(S) SHALL BE INSTALLED ON PIPING SYSTEMS AND AT QUICK-CLOSING VALVES AS PER MANUFACTURER'S RECOMMENDATIONS.

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02-28-2022

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222 Durdin Dr

ISSUED FOR
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DRAWINGS SHEET TITLE
PLUMBING LEGEND & GENERAL NOTES

SHEET NUMBER
P000

21061
PROJECT NUMBER

1304 BERTRAND DRIVE SUITE F7
LAFAYETTE, LOUISIANA 70506
(337) 234-7474 * FAX (337) 234-7774
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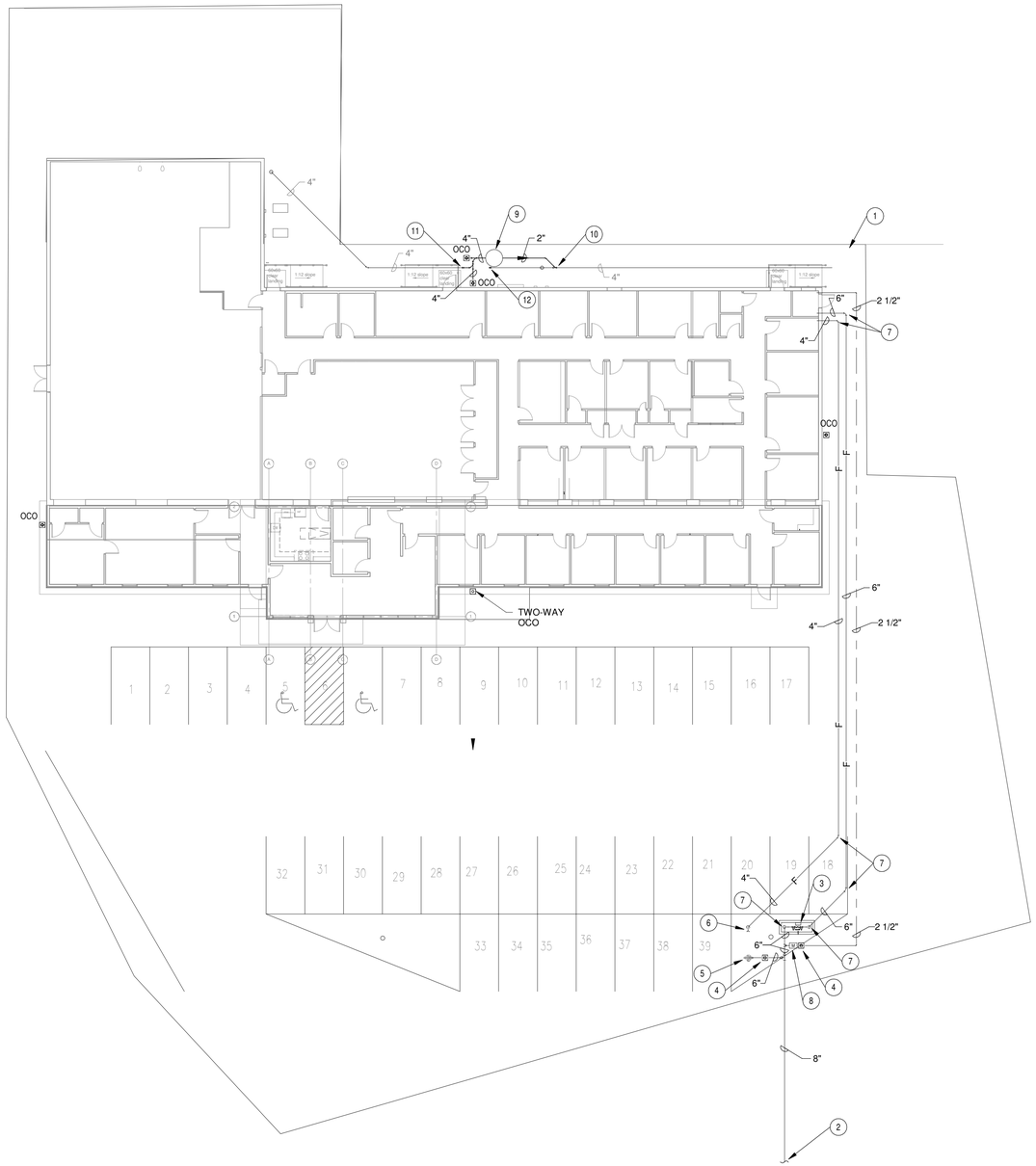
PROJECT No.: 21167.00

PLUMBING KEYNOTES:

1. TOTAL OF 4 EXISTING WATER METERS ARE CURRENTLY INSTALLED IN THIS LOCATION. CONTRACTOR SHALL REMOVE ALL FOUR (4) WATER METERS. CONTRACTOR SHALL REMOVE EXISTING BACKFLOW PREVENTER AND EXISTING DOMESTIC WATER LINES BELOW GRADE TO ACCOMMODATE FOR NEW WATER LINE. ALL EXISTING REMAINING LINES BELOW GRADE SHALL REMOVED OR BE CAPPED TO ACCOMMODATE INSTALLATION OF NEW LINES.
2. EXTEND AND CONNECT TO EXISTING 8" CITY WATER MAIN ON THE NORTH SIDE OF THE STREET WITH TAPPING SLEEVE AND VALVE. CONTRACTOR SHALL SAWCUT AND PATCH STREET OR JACK AND BORE AS REQUIRED. CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS WITH LOCAL UTILITY COMPANY AND PAY FOR ALL CONNECTION FEES.
3. DOUBLE CHECK DETECTOR ASSEBMLY WITH BY-PASS WATER METER WITHIN ALUMINUM INSUALTED ENCLOSURE WITH HEATER.
4. 2 1/2" SHUT-OFF VAVLE IN CAST IRON VALVE BOX MARKED "WATER" ON COVER.
5. NEW FIRE HYDRANT AND ISOLATIONVALVE. FIRE HYDRANT SHALL HAVE THREADS APPROVED BY LOCAL FIRE DEPARTMENT.
6. FIRE DEPARTMENT CONNECTION. COORDINATE THREAD CONNECTIONS WITH LOCAL FIRE DEPARTMENT.
7. INSTALL THRUST BLOCK AT ALL BENDS IN WATER PIPING BELOW GRADE.
8. WATER METER BY LOCAL UTILITY COMPANY. CONTRACTOR SHALL PAY FOR ALL FEES AND CHARGES. TOTAL DEMAND = 70 GPM FOR PHASE 1 & PHASE 2.
9. PACKAGED LIFT STATION AND CONTROL PANEL MOUNTED ON UNISTRUT RACK.
10. FORCED MAIN SHALL CONNECT TO EXISTING 4" GRAVITY SEWER LINE IN THIS VICINITY.
11. CONNECT TO EXISTING SANITARY SEWER LINE IN THIS VICINITY.
12. CAP EXISTING SANITARY SEWER LINE IN THIS VICINITY.



1 Plumbing Site Plan
1/16" = 1'-0" Refer to Architectural Drawings for All Dimensions

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DRAWINGS SHEET TITLE
PLUMBING SITE PLAN

SHEET NUMBER
P100R1

21061
PROJECT NUMBER

1304 BERTRAND DRIVE SUITE F7
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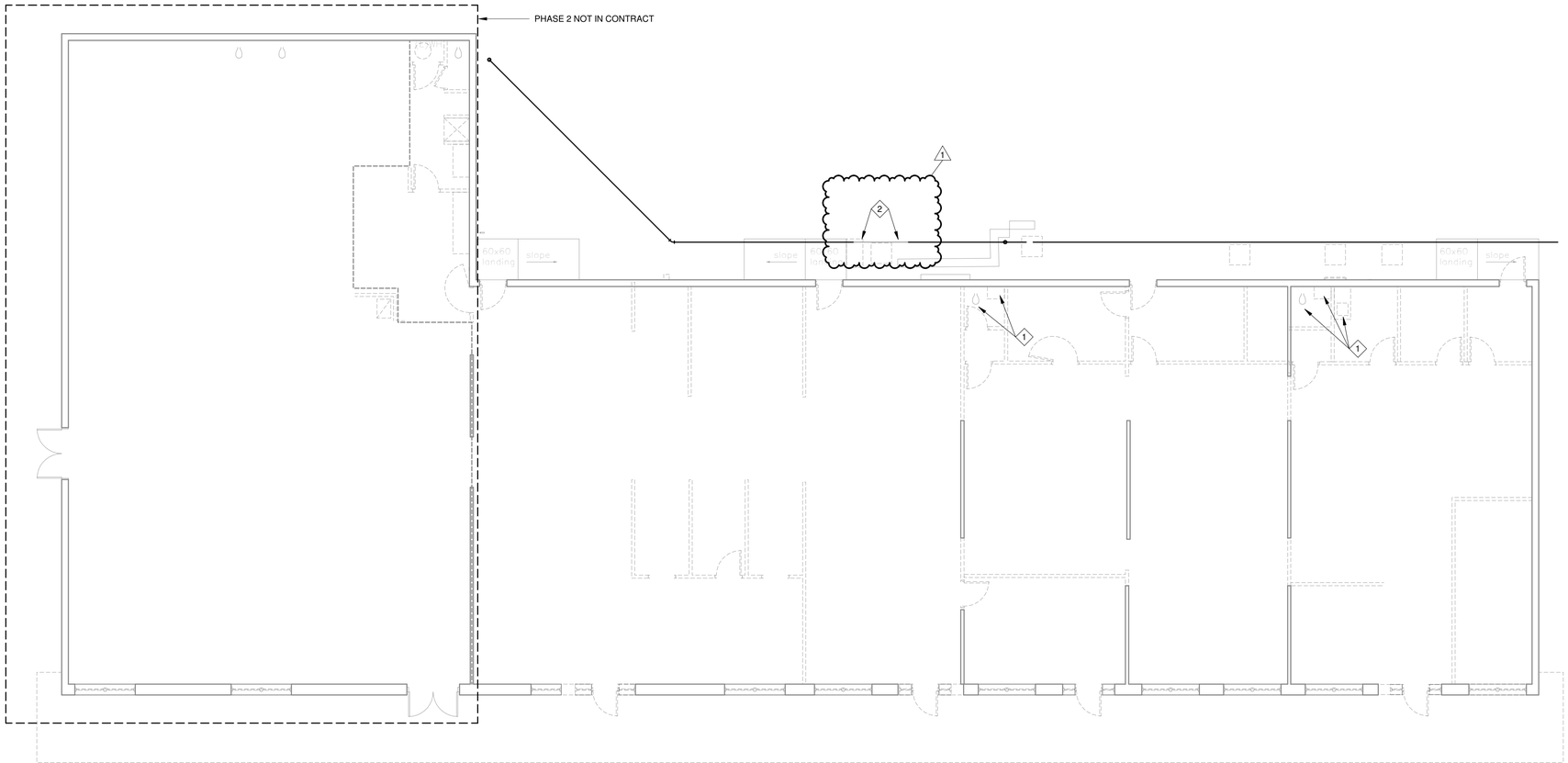
PLUMBING DEMOLITION KEYNOTES:

1. REMOVE PLUMBING FIXTURE IN THIS VICINITY. CAP AND SEAL PIPING BEHIND A FINISHED SURFACE.
2. REMOVE EXISTING SEWER LINE IN THIS VICINITY TO ACCOMMODATE FOR NEW SEWER LINE. REFER TO SHEET P300 PLUMBING PLAN FOR ADDITIONAL INFORMATION.



1 Plumbing Plan - Demolition
1/8" = 1'-0" Refer to Architectural Drawings for All Dimensions

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DRAWINGS SHEET TITLE
PLUMBING DEMOLITION PLAN

SHEET NUMBER
P200R1

21061
PROJECT NUMBER

M&E CONSULTING
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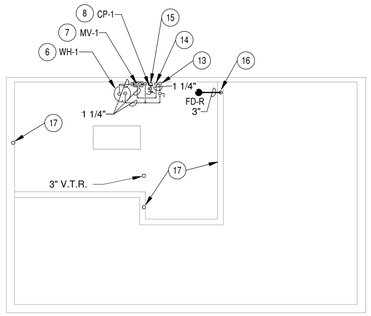
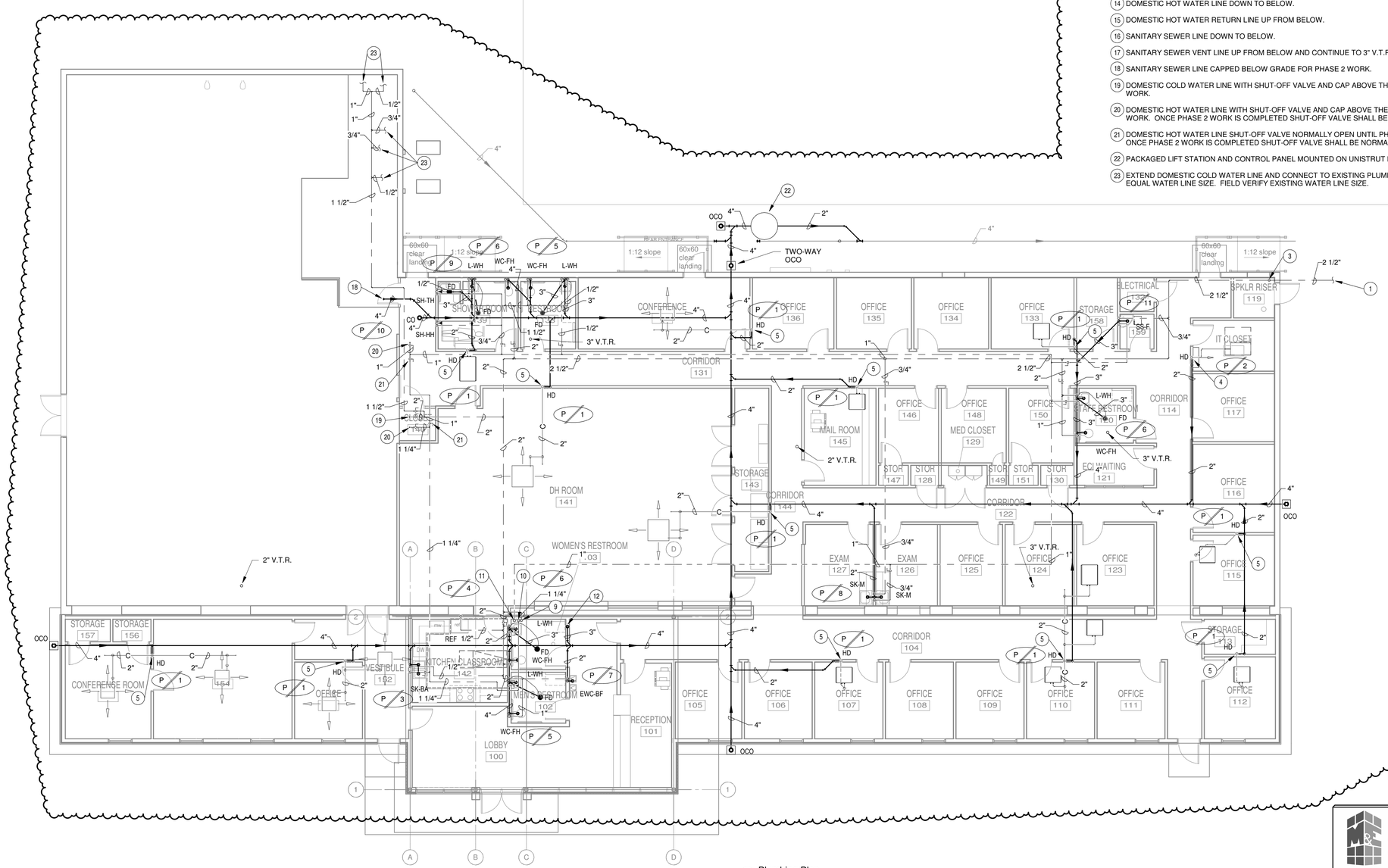
PLUMBING KEYNOTES:

1. REFER TO PLUMBING SITE PLAN FOR CONTINUATION.
2. 2 1/2" VALVE IN CAST IRON VALVE BOX MARKED "WATER" ON COVER.
3. 2 1/2 " DOMESTIC WATER LINE UP FROM BELOW GRADE WITHINN THE SPRINKLER ENTRY ROOM WITH BALL TYPE SHUT-OFF VALVE INSTALLED AT 3'-0" A.F.F. RISE UP TO ABOVE THE CEILING AND ROUTE TO PLUMBING FIXTURES AS REQUIRED.
4. HUB DRAIN AND INSULATED P-TRAP WITHIN WALL WITH METAL ACCESS PANEL IN WALL TO ACCESS INDIRECT TERMINATION OF A/C CONDENSATE DRAIN LINE AT THE HUB DRAIN. FIRE RATED ACCESS PANELS SHALL BE INSTALLED IN FIRE RATED WALLS.
5. HUB DRAIN AND INSULATED P-TRAP WITHIN WALL WITH HUB DRAIN OPENING ABOVE THE SUSPENDED CEILING TO ACCESS INDIRECT TERMINATION OF A/C CONDENSATE DRAIN LINE AT THE HUB DRAIN.
6. ELECTRIC WATER HEATER LOCATED ON THE MEZZANINE LEVEL FINISHED FLOOR WITHIN EMERGENCY DRAIN PAN . TERMINATE RELIEF LINE AND EMERGENCY DRAIN PAN LINE INTO RECESSED FLOOR DRAIN LOCATED ON THE MEZZANINE LEVEL. PROVIDE 2" AIR GAP FOR RELIEF LINE TERMINATE AT RECESSED FLOOR DRAIN. COORDINATE EXACT LOCATION WITH HVAC/ELECTRICAL EQUIPMENT PRIOR TO INSTLLATION.
7. MIXING VALVE ON THE MEZZANINE LEVEL MOUNTED ADJACENT TO WATER HEATER.
8. CIRCULATING PUMP ON THE MEZZANINE LEVEL MOUNTED ADJACENT TO WATER HEATER.
9. DOMESTIC COLD WATER LINE UP TO MEZZANINE LEVEL.
10. DOMESTIC HOT WATER LINE DOWN FROM MEZZANINE LEVEL.
11. DOMESTIC HOT WATER RETURN LINE UP TO MEZZANINE LEVEL.
12. SANITARY SEWER LINE DOWN FROM MEZZANINE LEVEL AND CONTINUE DOWN TO BELOW GRADE.
13. DOMESTIC COLD WATER LINE UP FROM BELOW.
14. DOMESTIC HOT WATER LINE DOWN TO BELOW.
15. DOMESTIC HOT WATER RETURN LINE UP FROM BELOW.
16. SANITARY SEWER LINE DOWN TO BELOW.
17. SANITARY SEWER VENT LINE UP FROM BELOW AND CONTINUE TO 3" V.T.R.
18. SANITARY SEWER LINE CAPPED BELOW GRADE FOR PHASE 2 WORK.
19. DOMESTIC COLD WATER LINE WITH SHUT-OFF VALVE AND CAP ABOVE THE CEILING FOR FUTURE PHASE 2 WORK.
20. DOMESTIC HOT WATER LINE WITH SHUT-OFF VALVE AND CAP ABOVE THE CEILING FOR FUTURE PHASE 2 WORK. ONCE PHASE 2 WORK IS COMPLETED SHUT-OFF VALVE SHALL BE NORMALLY OPEN.
21. DOMESTIC HOT WATER LINE SHUT-OFF VALVE NORMALLY OPEN UNTIL PHASE 2 WORK IS COMPLETED. ONCE PHASE 2 WORK IS COMPLETED SHUT-OFF VALVE SHALL BE NORMALLY CLOSED.
22. PACKAGED LIFT STATION AND CONTROL PANEL MOUNTED ON UNISTRUT RACK.
23. EXTEND DOMESTIC COLD WATER LINE AND CONNECT TO EXISTING PLUMBING FIXTURE AS REQUIRED WITH EQUAL WATER LINE SIZE. FIELD VERIFY EXISTING WATER LINE SIZE.



2 Plumbing Plan - Mezzanine
1/8" = 1'-0" Refer to Architectural Drawings for All Dimensions



1 Plumbing Plan
1/8" = 1'-0" Refer to Architectural Drawings for All Dimensions

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DRAWINGS SHEET TITLE
PLUMBING PLAN

SHEET NUMBER
P300R1

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PROJECT NUMBER

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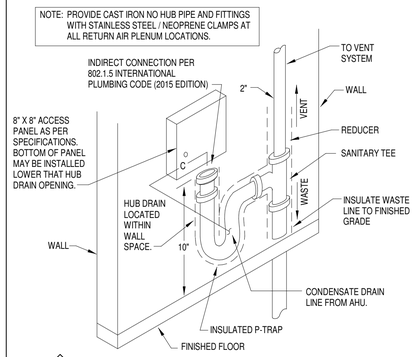
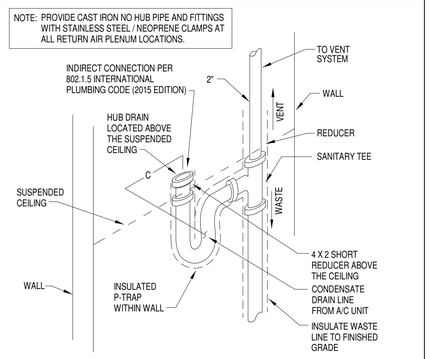


1 CONCEALED HUB DRAIN DETAIL

NO SCALE



2 CONCEALED HUB DRAIN DETL.

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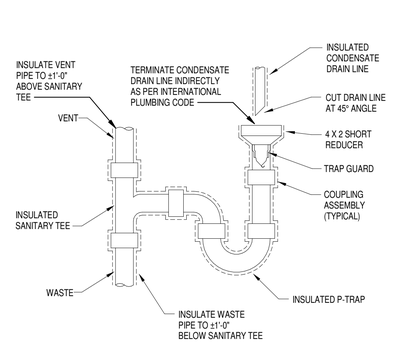

3 HUB DRAIN DETAIL

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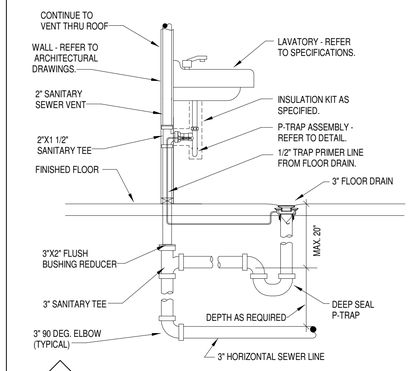

4 FLOOR DRAIN TRAP PRIMER DETAIL

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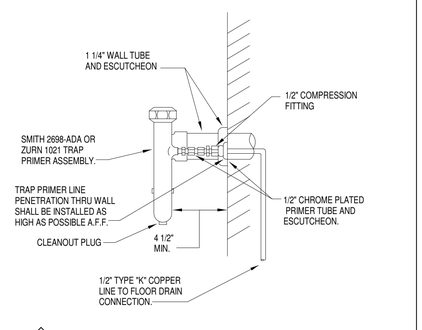

5 TRAP PRIMER DETAIL

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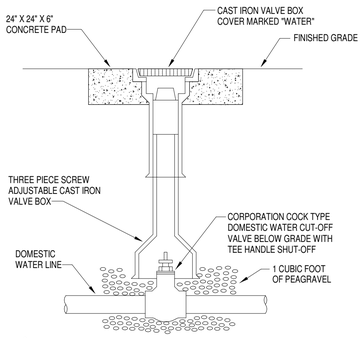

6 WATER VALVE BOX DETAIL

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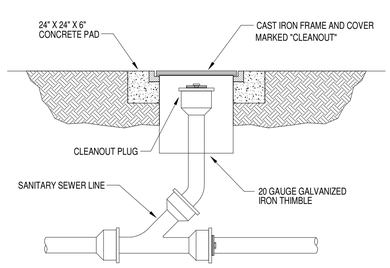
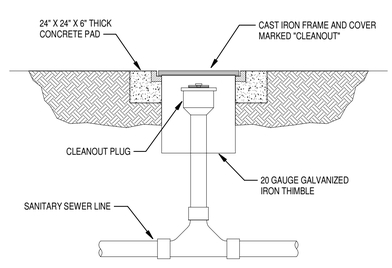


7 OUTSIDE CLEANOUT DETAIL

NO SCALE



8 TWO-WAY OUTSIDE CLEANOUT DETAIL

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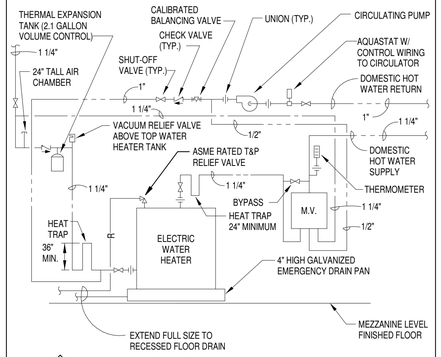

9 WATER HEATER PIPING DETAIL

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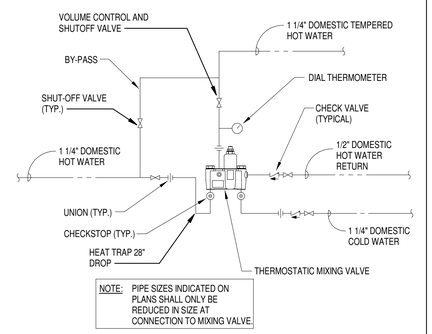
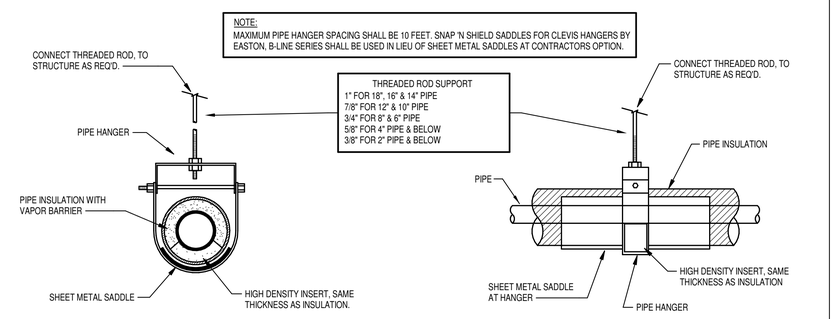


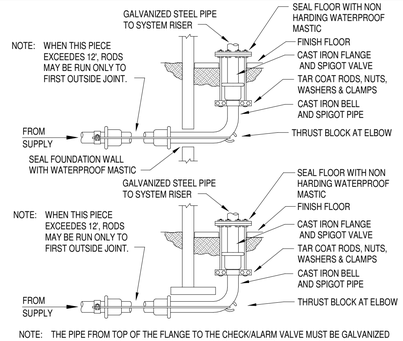
10 THERMOSTATIC MIXING VALVE DETAIL

NO SCALE



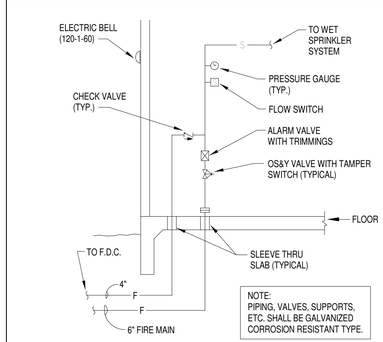
11 INSULATED PIPE HANGER DET.

NO SCALE



12 FLANGE AND SPIGOT ASSEMBLIES

NO SCALE



13 SPRINKLER ENTRY DETAIL

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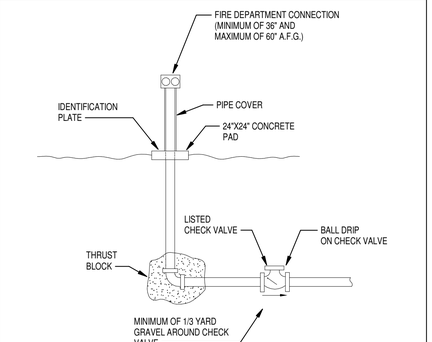

14 FREE STANDING FIRE DEPARTMENT CONNECTION

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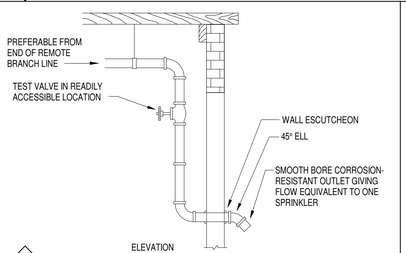

15 SYSTEM TEST CONNECTION ON WET PIPE SYSTEM

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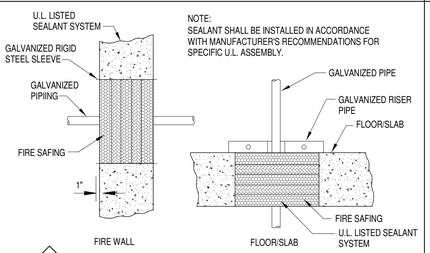

16 FIRE PENETRATION DETAIL

NO SCALE

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DRAWINGS SHEET TITLE
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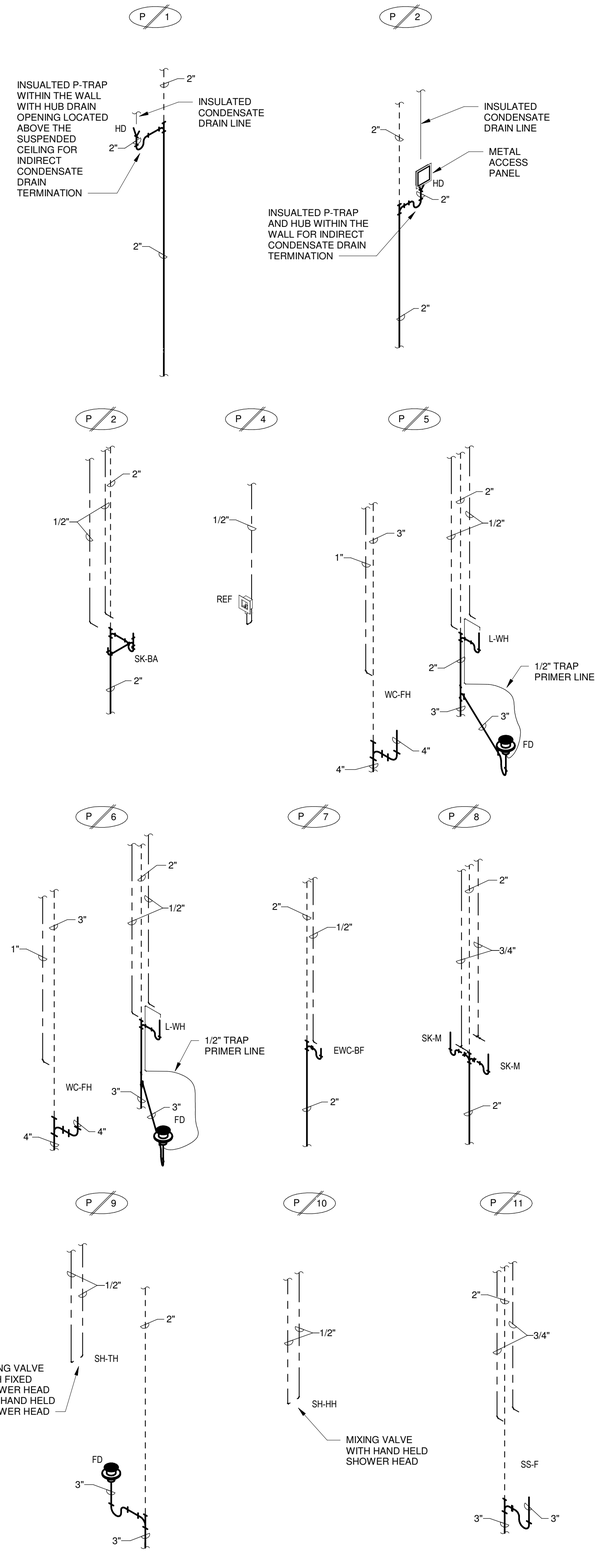

PLUMBING FIXTURE SCHEDULE

LABEL	FIXTURE TYPE	MANUFACTURER	PIPE CONNECTION C.W.	PIPE CONNECTION H.W.	PIPE CONNECTION WASTE	PIPE CONNECTION VENT	SPECIFICATION
CO	FLOOR CLEANOUT	ZURN 1400, WADE W-6000, MIFAB C1100-R OR J.R. SMITH 4031 (NB) WITH ADJUSTABLE SCORIATED SECURED NICKEL BRONZE TOP.	-	-	4"	-	FLOOR CLEANOUTS SHALL BE AN ADJUSTABLE TYPE WITH ANCHOR FLANGE FOR CLAMP DEVICE, CLAMPING COLLAR AND NICKEL BRONZE COVER. CONTRACTOR SHALL INSTALL 2# LEAD FLASHING A MINIMUM OF 18" ALL AROUND CLEANOUT AND FLASH INTO FLANGE AND ANCHOR WITH CLAMPING COLLAR.
EWC-BF	ELECTRONIC WATER COOLER WITH BOTTLE FILLING STATION	ELKAY EZSTL8WSSK, OASIS PGF8EBFSL	1/2"	-	2"	2"	TWO LEVEL WALL MOUNTED ELECTRIC WATER COOLER FOR ADULTS AND OR CHILD USE. BOTTLE FILLING UNIT SHALL INCLUDE AN ELECTRONIC SENSOR FOR NO-TOUCH ACTIVATION WITH AN AUTOMATIC 30 SECOND SHUT-OFF TIMER. COOLER UNIT SHALL HAVE PUSHBAR ACTIVATION AND WATER-EFFICIENT STREAM-SAVER BUBBLER AND WATER SENTRY PLUS FILTER WITH VISUAL MONITOR TO INDICATE WHEN REPLACEMENT IS NECESSARY. BOTTLE FILLING UNIT SHALL MEET ADA GUIDELINES FOR PARALLEL APPROACH. UNIT SHALL PROVIDE A CAPACITY OF 8.0 GPH OF 50°F WATER AT A ROOM TEMPERATURE OF 90°F AND INLET WATER TEMPERATURE OF 80°F; 3/8" ANGLE SUPPLIES WITH STOP AND 1-1/4" CAST BRASS P-TRAP WITH CLEANOUT PLUG. FINISH TO BE STAINLESS STEEL. UNIT SHALL BE COMPLETE WITH WADE 440-AM11 (MIFAB MC-33-2, JOSAM 17560-WCBL) UNIVERSAL HANGER PLATE CARRIER WITH THREE PIPE UPRIGHTS, TWO HANGER PLATES AND TWO BOTTOM BEARING PLATES, WELDED BASE FEET AND SUPPORT HARDWARE. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT. INSTALL PER A.D.A. REQUIREMENTS. CAULK AROUND PERIMETER OF FIXTURE.
FD	FLOOR DRAIN	JOSAM SERIES 30000, WADE W-1100-A6-1, J. R. SMITH 2010A, MIFAB F1100-C, ZURN 415-BZ OR EQUIVALANT	-	-	3"	2"	BOTTOM OUTLET WITH DURA-COATED CAST IRON BODY, WITH CLAMPING COLLAR AND 6" DIAMETER NICKEL BRONZE STRAINER ADJUSTABLE VERTICALLY TO FLOOR LEVEL, WITH SQUARE PERFORATIONS AND VANDAL-PROOF SCREWS. PROVIDE TRAP PRIMER CONNECTION WHERE SHOWN ON PLANS. PROVIDE SURESEAL MODEL SS3000V (MIFAB MI-GARD-3) FLOOR DRAIN TRAP SEALER FOR 3" DIAMETER DRAIN (ASSE 1072) WHERE TRAP PRIMER LINE IS NOT SHOWN CONNECTING TO THE FLOOR DRAIN ON THE PLANS. COORDINATE FINAL ROUGH-IN ELEVATION WITH FINISHED FLOOR. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
FD-R	FLOOR DRAIN RECESSED GRATE	JOSAM SERIES 30000, WADE W-1100-ER7-1, J. R. SMITH 2010A, MIFAB F1100-C, ZURN 415-BZ OR EQUIVALANT	-	-	3"	2"	SHALL BE SAME AS "FD", EXCEPT SUPPLIED WITH 1" RECESSED GRATE, JOSAM TYPE "E-1", WADE W-1100-ER7, J. R. SMITH 2010-F37, MIFAB F1100-C-ER WITH TOP OF RIM SET FLUSH WITH FINISHED FLOOR. PROVIDE SURESEAL MODEL SS3000V (MIFAB MI-GARD-3) FLOOR DRAIN TRAP SEALER FOR 3" DIAMETER DRAIN (ASSE 1072) WHERE TRAP PRIMER LINE IS NOT SHOWN CONNECTING TO THE FLOOR DRAIN ON THE PLANS.
HD	LAVATORY	KOHLER K-1721, AMERICAN STANDARD 0356.421	1/2"	1/2"	2"	2"	WALL HUNG, 20" X 18", WHITE, VITREOUS CHINA, WALL MOUNTED LAVATORY WITH SINGLE HOLE. CHICAGO 333-665PSHABCP (ZURN Z-86100-XL, A.S. 1340.105.002) CAST BRASS BODY, DECK MOUNTED SINGLE HOLE SINGLE SUPPLY PUSH BUTTON MANUAL METERING FAUCET, WITH MCGUIRE 155WC (KOHLER K-13885) OFFSET TAILPIECE WITH PERFORATED GRATE DRAIN; MCGUIRE 8872 (KOHLER K-8998) 1-1/4" CAST BRASS P-TRAP WITH CLEANOUT PLUG, 3/8" ANGLE SUPPLIES WITH STOPS, AND JOSAM, WADE 520 CONCEALED ARM FLOOR ANCHORED CARRIER. PROVIDE J.R. SMITH 2698-ADA PRIME-EZE, ZURN Z1021-ADA OR EQUAL WATER SAVER TRAP PRIMER WHERE INDICATED ON PLANS. TRUEBRO MODEL 103, (ZURN Z8946-3-NT) INSULATING KIT. INSTALL PER A.D.A. REQUIREMENTS. CAULK AROUND PERIMETER OF FIXTURE. PROVIDE LAWLER 570 (LEONARD 170-LF, WATTS LFUSG-B SERIES) THERMOSTATIC MIXING VALVE, 3/8" INLETS & OUTLET CONNECTIONS, TEMPERATURE CONTROL DEVICE THAT CONFORMS TO ASSE 1070.
L-WH	LAVATORY	KOHLER K-1729, AMERICAN STANDARD 0124.131	1/2"	1/2"	2"	2"	WALL HUNG, 20" X 18", WHITE, VITREOUS CHINA, WALL MOUNTED LAVATORY WITH 4" FAUCET CENTERS. DELTA 22C101 (ZURN Z-81000-CP4, A.S. 6114.111.002) CAST BRASS BODY, CERAMIC DISC CARTRIDGE, SINGLE HANDLE FAUCET WITH MCGUIRE 155WC (KOHLER K-13885) OFFSET TAILPIECE WITH PERFORATED GRATE DRAIN; MCGUIRE 8872 (KOHLER K-8998) 1-1/4" CAST BRASS P-TRAP WITH CLEANOUT PLUG, 3/8" ANGLE SUPPLIES WITH STOPS, AND JOSAM, WADE 520 CONCEALED ARM FLOOR ANCHORED CARRIER. PROVIDE J.R. SMITH 2698-ADA PRIME-EZE, ZURN Z1021-ADA OR EQUAL WATER SAVER TRAP PRIMER WHERE INDICATED ON PLANS. TRUEBRO MODEL 103, (ZURN Z8946-3-NT) INSULATING KIT. INSTALL PER A.D.A. REQUIREMENTS. CAULK AROUND PERIMETER OF FIXTURE. PROVIDE LAWLER 570 (LEONARD 170-LF, WATTS LFUSG-B SERIES) THERMOSTATIC MIXING VALVE, 3/8" INLETS & OUTLET CONNECTIONS, TEMPERATURE CONTROL DEVICE THAT CONFORMS TO ASSE 1070.
OCO	FLOOR CLEANOUT	J.R. SMITH, JOSAM, MIFAB, ZURN, WADE	-	-	4"	-	OUTSIDE CLEANOUTS SHALL BE AS DETAILED ON THE PLANS.
REF	REFRIGERATOR	OATEY 38681, SPECIALITY PRODUCTS P4129	1/2"	-	-	-	WALL RECESSED BOX WITH CHROME PLATED 1/2"X1/4" ANGLE STOP WITH SUPPLY
SH-HH	SHOWER HAND HELD SHOWER HEAD	BRADLEY 1C-EF-B24, ZURN Z-7101-SS-MT-LH-HW, AMERICAN STANDARD 1662.221.002	1/2"	1/2"	3"	2"	CONCEALED IN-WALL MULTICHOICE UNIVERSAL PRESSURE BALANCE MIXING VALVE, HEAVY DUTY FORGED BRASS VALVE BODY, INTEGRAL SCREWDRIVER STOPS, VANDAL RESISTANT A.D.A. BLADE HANDLE, COLOR CODED NON-REMOVABLE MARKING ON ESCUTCHEON, HAND HELD SHOWER WITH 60" STAINLESS STEEL FLEXIBLE HOSE, 24" METAL SLIDE MOUNTING BAR FOR MOUNTING HAND HELD SHOWER AND ASSE VACUUM BREAKER. REFER TO ARCHITECTURAL SPECIFICATIONS FOR TILE FLOOR & WALLS, GRAB BARS, ACCESSORIES, ETC.
SH-TH	SHOWER	DELTA R10700-UNWS with T13H153 valve trim, BRADLEY 1C-EF-SF-B24-DV, ZURN Z-7101-SS-MT-LH-DV-2P-HW-S3, AMERICAN STANDARD 1662.223.002	1/2"	1/2"	3"	2"	CONCEALED IN-WALL MULTICHOICE UNIVERSAL PRESSURE BALANCE MIXING VALVE, HEAVY DUTY FORGED BRASS VALVE BODY, INTEGRAL SCREWDRIVER STOPS, WITH T13H153 VALVE TRIM, VANDAL RESISTANT A.D.A. BLADE HANDLE, COLOR CODED NON-REMOVABLE MARKING ON ESCUTCHEON, HAND HELD SHOWER WITH 70" VINYL HOSE, 24" SLIDE MOUNTING BAR FOR MOUNTING HAND HELD SHOWER AND ASSE VACUUM BREAKER, AND IN-WALL DIVERTER VALVE; FLOOR DRAIN "FD", 3" DRAIN OUTLET, NICKEL BRONZE FINISH GRID STRAINER. REFER TO ARCHITECTURAL SPECIFICATIONS FOR TILE FLOOR & WALLS, FOLDING SEAT, GRAB BARS, ACCESSORIES, ETC.
SK-BA	SINK	ELKAY LRAD-3319653, JUST DL-ADA-1933-A-GR	1/2"	1/2"	2"	2"	SELF RIMMING, 33" X 19" X 6.5", DOUBLE COMPARTMENT, OFF-CENTER REAR DRAIN OPENING,18 GAUGE, TYPE 304 SELF RIMMING SINK WITH LK810GN08T4 (Zurn 871C4-XL, A.S. 6409.170.002) 8" REACH GOOSENECK FAUCET WITH 4" WRIST BLADE HANDLES, LK-99 (JUST JB-99) STAINLESS STEEL BASKET STRAINERS, MCGUIRE 8912 1-1/2" CAST BRASS P-TRAP WITH CLEANOUT PLUG, CONTINUOUS WASTE PIPING AND 3/8" ANGLE SUPPLIES WITH STOPS. PROVIDE DISHWASHER DRAIN CONNECTION FOR DISHWASHER HOSE CONNECTION. CAULK AROUND PERIMETER OF FIXTURE.
SK-M	SINK	ELKAY LR-1919, JUST SL-2019-A-GR	1/2"	1/2"	2"	2"	SELF RIMMING, 19" X 19" X 7.5", SINGLE COMPARTMENT, 18 GAUGE, TYPE 304 STAINLESS STEEL, SELF RIMMING SINK WITH 8" FAUCET CENTERS; ZURN Z831B4-XL-18F (T & S BRASS B-2867-04 WITH B-0199-21, A.S. 6530.170.LV15.002) 5-3/8" REACH RIGID GOOSENECK FAUCET WITH LAMINAR FLOW AND 4" WRIST BLADE HANDLES, LK-18B PERFORATED 3" GRID STRAINER, MCGUIRE 8912 1-1/2" CAST BRASS P-TRAP WITH CLEANOUT PLUG AND 3/8" ANGLE SUPPLIES WITH STOPS. CAULK AROUND PERIMETER OF FIXTURE.
SS-F	SERVICE SINK	FIAT MSB-2424, MUSTEE 63M	3/4"	3/4"	2"	2"	FLOOR MOUNTED, 24" X 24" X 10" WHITE MOLDED STONE MOP SERVICE BASIN WITH #1453-BB FLAT TYPE STAINLESS STEEL DRAIN, VINYL BUMPER GUARD, #830-AA (T&S BRASS B-0665-BSTR) MIXING FAUCET, #832-AA (T&S BRASS B-0654) HOSE AND STAINLESS STEEL HOSE BRACKET, #889-CC (T&S BRASS B-0653) STAINLESS STEEL MOP HANGER, #833-AA SILICONE SEALANT AND TWO (2) #MSG 2424 STAINLESS STEEL WALL GUARDS (SIDE AND BACK). CAULK AROUND PERIMETER OF FIXTURE.
WC-FH	WATER CLOSET	KOHLER K-96057, AMERICAN STANDARD 3043.001	1"	-	4"	3"	FLOOR MOUNTED, WHITE, VITREOUS CHINA, SIPHON JET, ELONGATED WATER CLOSET. K-4670-C (A.S. 5901.100, BEMIS 1955CT, BENEKE 523, CHURCH 295CT, CENTOCO 500STSCC) SOLID PLASTIC, WHITE OPEN-FRONT TOILET SEAT LESS COVER, CHECK HINGE AND WITH STA-TITE COMMERCIAL FASTENING SYSTEM; K-4562 BOLT CAP. SLOAN 111 (ZURN AQUAFLUSH PLUS Z6000PL-WS1) FLUSH VALVE WITH A.D.A. COMPLIANT HANDLE ASSEMBLY, VANDAL RESISTANT STOP CAP, VACUUM BREAKER AND STOP. INSTALL PER A.D.A. REQUIREMENTS. FLUSH VALVE HANDLE TO BE ON WIDE SIDE OF STALL. INSTALL WAX SEAL BELOW FIXTURE. CAULK AROUND PERIMETER OF FIXTURE.

WATER HEATER SCHEDULE

UNIT NO.	SERVICE	CAPACITY (GALLONS)	ELECTRIC KW INPUT	TEMPERATURE SETTING	ELECTRICAL SERVICE	RECOVERY RATE @ 80°F TEMP. RISE	COMMENTS
WH-1	PHASE 1	30	TWO (2) 4.5	140°F	208-1-60	23 GPH	STATE PCE3020LSAX, RHEEM OR PRIOR ELDS30 OR PRIOR APPROVED EQUAL

NOTES: 1. HEATING ELEMENTS SHALL BE WIRE FOR NON-SIMULTANEOUS OPERATION.

MIXING VALVE SCHEDULE

UNIT NO.	SERVICE	TYPE	TEMPERATURE SETTING	BASIS OF DESIGN
MV-1	WATER HEATER WH-1	STANDARD	110°F	BRADLEY MODEL S59-2025-TBP TMV25, LEONARD TM-26-E-RF

NOTES: 1. MIXING VALVE SHALL HAVE RELIABLE LIQUID-FILLED THERMOSTAT, DIAL THERMOMETER, WALL MOUNTING BRACKET, PIPED ASSEMBLY WITH INLET AND OUTLET SHUTOFF, INTEGRAL STRAINER CHECKSTOPS ON INLETS, ADJUSTABLE SET POINT (SET @ 110^{0}F), POSITIVE SHUTOFF OF HOT WATER WHEN COLD SUPPLY IS LOST AND DIAL THERMOMETER. INSTALL THERMOMETER DOWNSTREAM OF UNIT IN PIPING. ASSE 1017.

DOMESTIC WATER CIRCULATING PUMP SCHEDULE

UNIT NO.	SERVICE	TYPE	GPM	H.D. FT. OF WATER	RPM	MOTOR HP	VOLTAGE	PHASE	BASIS OF DESIGN
CP-1	WATER HEATER WH-1	IN-LINE	0.7	6	3450	0.17	120	1	TACO 2400-20S, B&G PL-36B OR APPROVED EQUAL

NOTES: 1. PUMP SHALL BE FURNISHED WITH ALL STAINLESS STEEL/BRONZE TRIM, AQUASTAT WITH TEMPERATURE ADJUSTABLE SETTING (SET AT 105°F) AND CONTROL WIRING INTERLOCKED WITH PUMP, CHECK VALVE AND CONTROL WIRING.

NOTES:

1. PLUMBING CONTRACTOR SHALL COMBINE AND EXTEND VENT LINES AS REQUIRED TO V.T.R. VENT THRU ROOF SHALL MAINTAIN A MINIMUM OF 10'-0" FROM OUTSIDE AIR INTAKES.
2. CONTRACTOR SHALL SEAL ALL PIPE PENETRATIONS THRU RATED WALLS WITH FIRE RATED SEALANT SYSTEMS PER MANUFACTURER'S RECOMMENDATIONS FOR SPECIFIC U.L. ASSEMBLY.
3. WATER HAMMER ARRESTER(S) SHALL BE INSTALLED ON PIPING SYSTEMS AND AT QUICK-CLOSING VALVES AS PER MANUFACTURER'S RECOMMENDATIONS.
4. ALL FLOOR DRAINS (FD & FD-R) AND HUB DRAIN (HD) SHALL BE COMPLETE WITH TRAP GUARDS PER SPECIFICATIONS.

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DRAWINGS SHEET TITLE
PLUMBING SCHEDULES & RISERS DIAGRAMS

SHEET NUMBER
P500

21061
PROJECT NUMBER

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