

KEYED NOTES CONTINUED

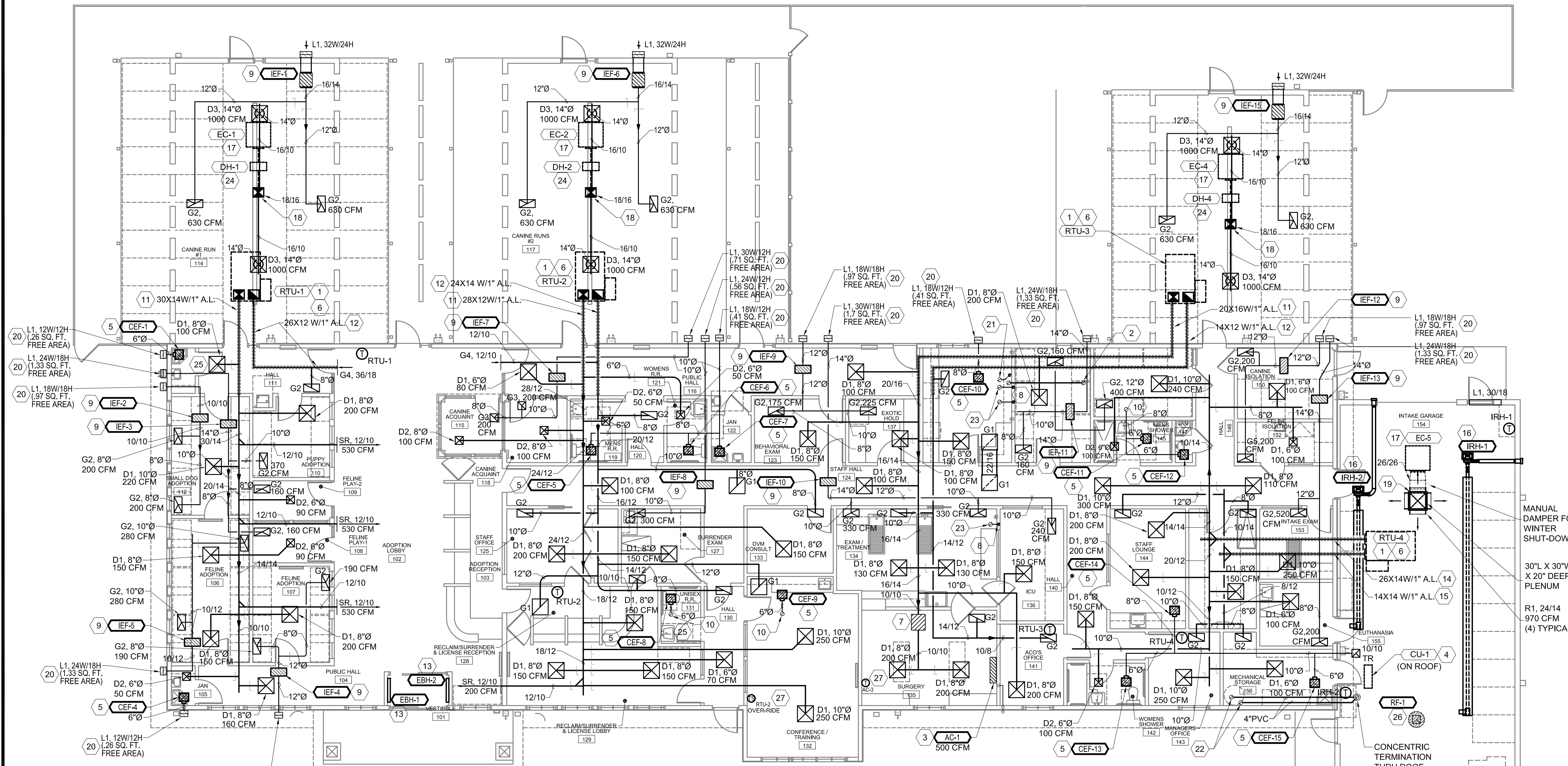
18. PROVIDE A ROOF OPENING APPROXIMATELY 2" LARGER ALL-SIDES OF SUPPLY DUCT, EXTEND DUCT AS SIZED ON PLAN DOWN THRU ROOF CURB AND ROUTE AS SHOWN.
19. PROVIDE A ROOF OPENING APPROXIMATELY 2" LARGER ALL-SIDES OF SUPPLY DUCT, EXTEND DUCT AS SIZED ON PLAN DOWN THRU ROOF CURB AND CONNECT TO TOP OF 30"X30"Wx20"D SUPPLY AIR PLENUM. PROVIDE SIDEWALL SUPPLY REGISTERS AS SIZED ON PLAN ON ALL 4 SIDES OF SUPPLY PLENUM.
20. EXTEND EXHAUST DUCT TO EXTERIOR SOFFIT LOUVER (TYPE L1, DIMENSIONS AND FREE AREA AS INDICATED). PROVIDE ALL TRANSITIONS AS REQUIRED. INSTALL ABOVE DOG RUN ROOF. COORDINATE EXACT LOCATION AND INSTALLATION HEIGHT WITH ARCHITECT PRIOR TO INSTALLATION. WALL PENETRATION SHALL BE SEALED WEATHERTIGHT AS REQUIRED. REFER TO CEILING MOUNTED EXHAUST FAN W/SOFFIT GRILLE DETAIL.
21. EXTEND DRYER VENT FROM FUTURE COMMERCIAL DOUBLE STACKED CLOTHES DRYER UP THRU ROOF. TERMINATE WITH GOOSENECK WITH BIRDSCREEN ELBOWED DOWN TOWARD ROOF. SECURE BIRDSCREEN TO GOOSENECK WITH METAL HOSE CLAMP. PROVIDE SHEET METAL CAP ON END OF DRYER VENT WITHIN SPACE. VERIFY EXACT VENT SIZE REQUIRED WITH DRYER MANUFACTURER - EFFECTIVE VENT LENGTH SHALL NOT EXCEED LENGTH ALLOWED BY DRYER MANUFACTURER. PROVIDE ALL REQUIRED CLEARANCES TO COMBUSTIBLES. ROOF PENETRATION SHALL BE SEALED WEATHERTIGHT AS REQUIRED. INSTALL DRYER VENT PER REQUIREMENTS OF THE UNIFORM MECHANICAL CODE.
22. CONNECT 4" PVC INTAKE AND VENT PIPING TO DIRECT VENT CONDENSING WATER HEATER. ROUTE 4" PVC PIPING AS SHOWN TO GARAGE AND RISE THRU ROOF WITH CONCENTRIC VENT TERMINATION KIT PER MANUFACTURERS REQUIREMENTS. MAINTAIN 10'-0" FROM ANY MECHANICAL INTAKES. SEAL ROOF PENETRATION WEATHER TIGHT.
23. EXTEND DRYER VENT FROM CLOTHES DRYER UP THRU ROOF. TERMINATE WITH GOOSENECK WITH BIRDSCREEN ELBOWED DOWN TOWARD ROOF. SECURE BIRDSCREEN TO GOOSENECK WITH METAL HOSE CLAMP. VERIFY EXACT VENT SIZE REQUIRED WITH DRYER MANUFACTURER - EFFECTIVE VENT LENGTH SHALL NOT EXCEED LENGTH ALLOWED BY DRYER MANUFACTURER. PROVIDE ALL REQUIRED CLEARANCES TO COMBUSTIBLES. ROOF PENETRATION SHALL BE SEALED WEATHERTIGHT AS REQUIRED. INSTALL DRYER VENT PER REQUIREMENTS OF THE UNIFORM MECHANICAL CODE.
24. PROVIDE DUCT MOUNTED GAS FIRED FURNACE UNIT. INSTALL FURNACE UNIT ON EQUIPMENT SUPPORT (THY CURB) SUPPORTS AND PER MANUFACTURER'S REQUIREMENTS. PROVIDE DUCT TRANSITIONS AS REQUIRED TO INLET AND FROM OUTLET OF FURNACE OPENINGS. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
25. UNDER CUT DOOR 3/4" FOR TRANSFER AIR. COORDINATE WITH G.C. AND ARCHITECT.
26. PROVIDE ROOF MOUNTED EXHAUST FAN AND ROOF CURB. PROVIDE DUCT TRANSITION FROM FAN OPENING TO DUCT SIZE SHOWN, TRANSITION IN ROOF CURB. EXTEND DUCT DOWN THRU ROOF. COORDINATE WITH STRUCTURE. REFER TO DETAIL AND EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION. RELIEF FAN (RF-1) SHALL BE INTERLOCKED WITH EC-5. CONTRACTOR SHALL PROVIDE RELIEF FAN (RF-1) WITH AN OVERRIDE WALL SWITCH.
27. PROVIDE A WALL MOUNTED OVER-RIDE TEMPERATURE SENSOR WIRED BACK TO THERMIDSTAT SERVING RTU-2. WHEN ROOM IS OCCUPIED THEN REMOTE

GENERAL NOTES

- A. REFER TO SHEET M501 FOR MECHANICAL DETAILS.
 B. REFER TO SHEET M601 AND M602 MECHANICAL SCHEDULES AND GENERAL NOTES.

KEYED NOTES

1. PROVIDE ROOFTOP UNIT AND FACTORY ROOF CURB. ENSURE CURB IS INSTALLED LEVEL FOR PROPER CONDENSATE DRAINAGE FROM UNIT. PROVIDE FLEXIBLE CONNECTORS ON THE SUPPLY AND RETURN AIR DUCT CONNECTIONS AND TRANSITION TO DUCT SIZES SHOWN. EXTEND DUCTS THRU ROOF. COORDINATE WITH STRUCTURE. REFER TO MECHANICAL DETAILS AND EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
2. PROVIDE COMBUSTION AIR DUCT FOR FUTURE COMMERCIAL DRYER INSTALLATION. EXTEND DUCT UP THRU ROOF AND TERMINATE WITH ROOF JACK, STORM COLLAR AND ALL-WEATHER CAP. VERIFY EXACT COMBUSTION AIR DUCT SIZE REQUIRED WITH MANUFACTURER.
3. PROVIDE DUCTLESS SPLIT COOLING UNIT. INSTALL UNIT LEVEL ON WALL FOR PROPER CONDENSATE DRAINAGE. COORDINATE WITH ROOM EQUIPMENT AND CONDITIONS. UNIT CONDENSATE LINE SIZED PER MANUFACTURER, PUMPED TO ABOVE CEILING, DROPPING DOWN IN WALL AND TERMINATING ELBOWED DOWN TO DRAIN 1/8" A.F.G.. ROUTE DRAIN IN COPPER PIPING PROPERLY SECURED TO WALL. COORDINATE WITH PLUMBING CONTRACTOR. PROVIDE LIQUID AND VAPOR PIPING, SIZE PIPING, TRAP, AND SLOPE REFRIGERANT LINES PER MANUFACTURER'S INSTRUCTIONS. CONTRACTOR TO COORDINATE SHORTEST ROUTING TO ASSOCIATED REMOTE CONDENSING UNIT. PROVIDE ALL VALVES AND ACCESSORIES FOR A COMPLETE AND OPERATIONAL SYSTEM. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
4. PROVIDE REMOTE CONDENSING UNIT AND EQUIPMENT SUPPORT RAILS ON ROOF. INSTALL UNIT LEVEL. PROVIDE LIQUID AND VAPOR PIPING, SIZE PIPING, SUPPORT, TRAP, AND SLOPE REFRIGERANT LINES PER MANUFACTURER'S INSTRUCTIONS. PROVIDE INSULATION WITH UV PROTECTANT ON VAPOR LINE. EXTEND REFRIGERANT PIPING THRU ROOF THRU PORTALS PLUS "ALUM-FLASH" BASE WITH CAP. SEAL ROOF PENETRATION WEATHERTIGHT. CONTRACTOR TO COORDINATE SHORTEST ROUTING TO FAN COIL UNIT BELOW. PROVIDE CONTROL WIRING BETWEEN CONDENSING UNIT AND FAN COIL UNIT AND ALL CONTROL COMPONENTS. PROVIDE ALL VALVES AND ACCESSORIES AS REQUIRED BY MANUFACTURER FOR A COMPLETE AND OPERATIONAL SYSTEM. INSTALL CONDENSING UNIT MAINTAINING MANUFACTURER'S REQUIRED CLEARANCES.
5. PROVIDE CEILING MOUNTED EXHAUST FAN. SUPPORT FAN FROM STRUCTURE WITH 1" X 18 GAUGE GALVANIZED SHEET METAL SUPPORT STRAPS. INSTALL STRAPS AT FAN CORNERS AND PERPENDICULAR TO STRUCTURE. CEILING FAN INSTALLED IN A LAY-IN TYPE CEILING SHALL BE CENTERED IN TILE AND SUPPORTED FROM STRUCTURE. TRANSITION FROM FAN DISCHARGE TO DUCT SIZE SHOWN AND EXTEND THRU WALL OR UP THRU ROOF. PROVIDE A WALL CAP WITH BAROMETRIC DAMPER AND SCREEN OR FACTORY ROOF CAP. INTERLOCK OPERATION OF EXHAUST FAN PER NOTES ON EQUIPMENT SCHEDULE. REFER TO DETAILS AND EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
6. INSTALL PETAIRAPY PPR-360 DOUBLE LAMP SYSTEM IN UNIT (DESIGNED TO DISINFECT AIR AND SURFACE) AND PPC-16 (ODOR CONTROL TI02 MESH TUBE-12PCS), SAFETY SWITCH, VIEWPORT. CONTRACTOR SHALL COORDINATE EXACT LOCATION AND INSTALLATION WITH PETAIRAPY INSTRUCTION. PPR-UNITS MUST BE PLACED ON THE SUPPLY SIDE OF THE COOLING COIL.
7. FILTER ASSEMBLY EQUAL TO FARR 3P GLIDE/PACK FILTER RACK WITH 12" DEEP, 95% RIGA-FLO 200 FILTER, 24" WIDE, 12" HIGH, 200 FPM FACE VELOCITY AT 650 CFM, 0.25" INITIAL PRESSURE DROP, 0.75" FINAL PRESSURE DROP. PROVIDE ALL DUCT TRANSITIONS AT INLET AND OUTLET OF FILTER ASSEMBLY AS REQUIRED.
8. PROVIDE DRYER VENT ENCLOSURE (DRYERBOX MODEL 425) IN WALL AS REQUIRED TO ALLOW SHORT RADIUS VENT CONNECTION TO CLOTHES DRYER. COORDINATE EXACT MOUNTING HEIGHT REQUIRED WITH DRYER VENT OUTLET.
9. PROVIDE IN-LINE EXHAUST FAN. SUPPORT FAN FROM STRUCTURE WITH 3/8" ROD AND SPRING ISO PER DETAIL. IN-LINE FAN INSTALLED IN A CEILING SPACE AND SUPPORTED FROM STRUCTURE. TRANSITION FROM FAN DISCHARGE TO DUCT SIZE SHOWN AND EXTEND THRU WALL TO WALL LOUVER. COORDINATE WITH STRUCTURE. PROVIDE A STORM COLLAR, AND ALL-WEATHER CAP. INTERLOCK OPERATION OF EXHAUST FAN PER NOTES ON EQUIPMENT SCHEDULE. REFER TO DETAILS AND EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
10. EXTEND EXHAUST DUCT OF SIZE INDICATED UP THROUGH ROOF AND TERMINATE WITH ROOF CAP PER MANUFACTURER'S REQUIREMENTS. PROVIDE ALL TRANSITIONS AS REQUIRED. SEAL ROOF PENETRATION WEATHER TIGHT.
11. EXTEND ACOUSTICALLY LINED SUPPLY DUCT OF SIZE INDICATED UP THROUGH ROOF AND CONNECT TO ROOFTOP UNIT. PROVIDE ALL TRANSITIONS AS REQUIRED. COORDINATE ROUTING WITH STRUCTURAL.
12. EXTEND RETURN DUCT OF SIZE INDICATED UP THROUGH ROOF AND CONNECT TO ROOFTOP UNIT. PROVIDE ALL TRANSITIONS AS REQUIRED. COORDINATE ROUTING WITH STRUCTURAL.
13. INSTALL FLOOR MOUNTED ELECTRIC BASE BOARD HEATER PER MANUFACTURERS REQUIREMENTS. COORDINATE WITH ELECTRICAL.
14. EXTEND ACOUSTICALLY LINED SUPPLY DUCT OF SIZE INDICATED FROM ROOFTOP UNIT, ON ROOF, THRU WALL AND INTO ATTIC AREA OF BUILDING. ROUTE DUCTWORK IN TRUSS SPACE AND PROVIDE ADDITIONAL DUCT INSULATION FOR DUCTWORK ROUTED IN ATTIC AREA. SUPPORT DUCTWORK ON ROOF AS DETAILED. PROVIDE ALL TRANSITIONS AS REQUIRED. COORDINATE ROUTING WITH ARCHITECT.
15. EXTEND ACOUSTICALLY LINED RETURN DUCT OF SIZE INDICATED FROM ROOFTOP UNIT, ON ROOF, THRU WALL AND INTO ATTIC AREA OF BUILDING. ROUTE DUCTWORK IN TRUSS SPACE AND PROVIDE ADDITIONAL DUCT INSULATION FOR DUCTWORK ROUTED IN ATTIC AREA. SUPPORT DUCTWORK ON ROOF AS DETAILED. PROVIDE ALL TRANSITIONS AS REQUIRED. COORDINATE ROUTING WITH ARCHITECT.
16. INSTALL INFRARED TUBE HEATER PER CODE AND MANUFACTURERS REQUIREMENTS. COORDINATE MINIMUM MOUNTING HEIGHTS AND MOUNT AS HIGH AS POSSIBLE. MAINTAIN CLEARANCES TO COMBUSTIBLES. ROUTE DIRECT VENT TO EXTERIOR OF BUILDING AND PROVIDE WITH TERMINATION WALL KIT PER MANUFACTURERS REQUIREMENTS.
17. PROVIDE AN EVAPORATIVE COOLER. INSTALL EVAPORATIVE COOLER ON EQUIPMENT SUPPORT STAND. PROVIDE FLEXIBLE CONNECTOR ON COOLER DISCHARGE DUCT CONNECTION AND TRANSITION TO DUCT SIZE SHOWN. EXTEND DUCT THRU ROOF. PROVIDE DUCT THRU ROOF CURB FOR ROOF PENETRATION. COORDINATE WITH STRUCTURE. FOR EVAP COOLER (EC-5) SUPPORT DUCTWORK ON ROOF AND PROVIDE A MANUAL LOCKING QUADRANT TYPE "WINTER" SHUT-OFF DAMPER IN DUCT ON ROOF. PROVIDE SHEET METAL SUN GUARD OVER FLEX CONNECTOR. REFER TO DETAILS AND EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.



NOTE:
 ALL DUCTWORK OUTSIDE OF INSULATED ENVELOPE, INCLUDING SUPPLY, RETURN, EXHAUST, AND TRANSFER DUCTS, SHALL BE WRAPPED WITH MINIMUM R-11 EXTERNAL INSULATION, WITH VAPOR RETARDER WITH ALL JOINTS SEALED (NOTE: FLUES AND VENTS, WHETHER WITHIN OR OUTSIDE OF INSULATED ENVELOPE, SHALL BE UNINSULATED). REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR MORE INFORMATION ON INSULATED ENVELOPE.

NOTE:
 PROVIDE SEISMIC RESTRAINTS/SUPPORTS FOR ALL EQUIPMENT, DUCTWORK, PIPING, ETC., AS REQUIRED BY LOCAL AND STATE CODES.

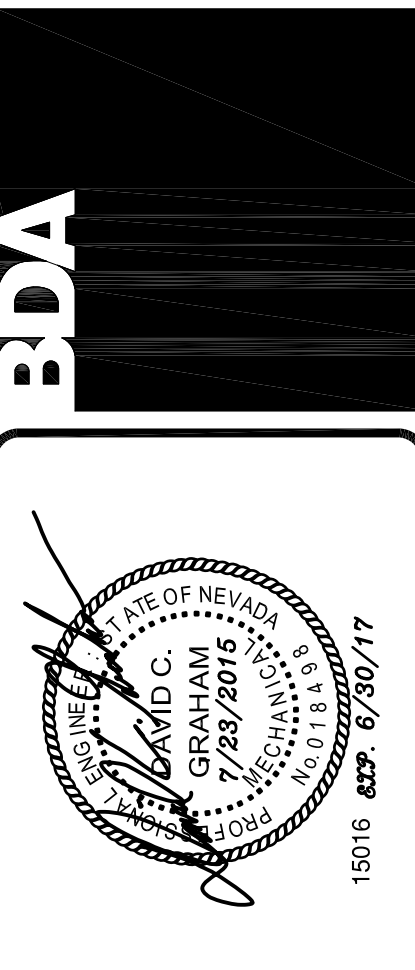


A1 MECHANICAL HVAC PLAN
 1/8"=1'-0"

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 Drawing Name:

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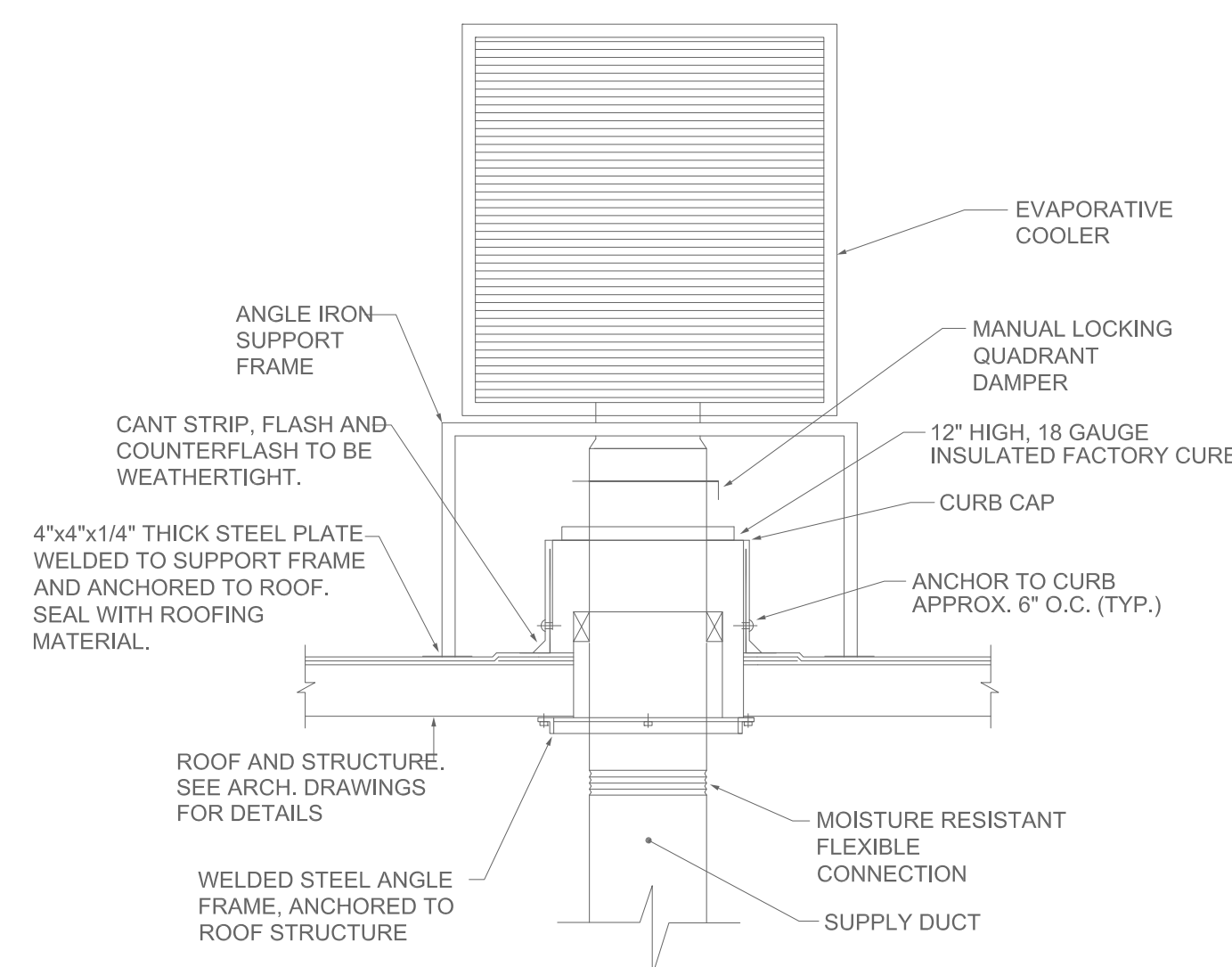
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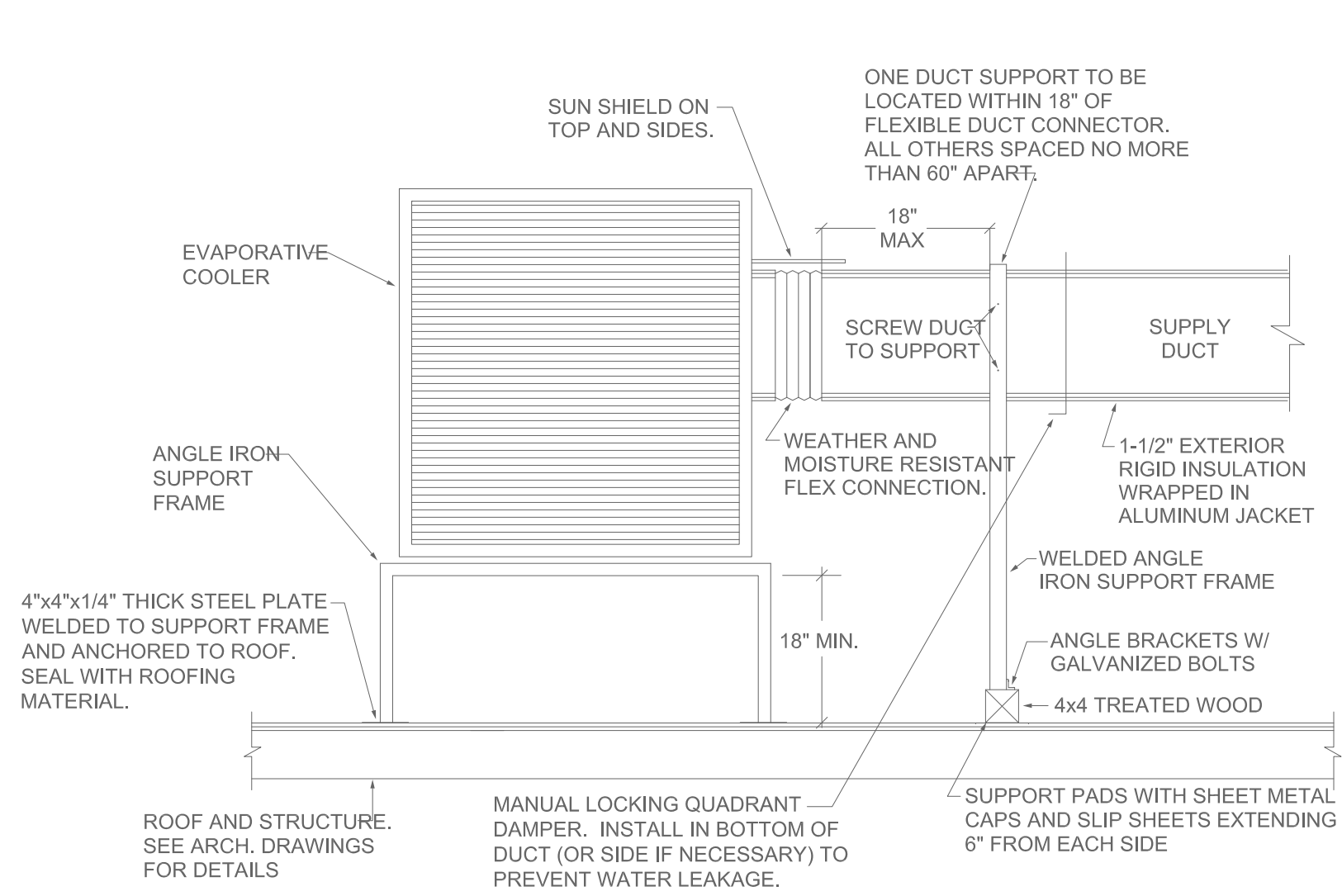
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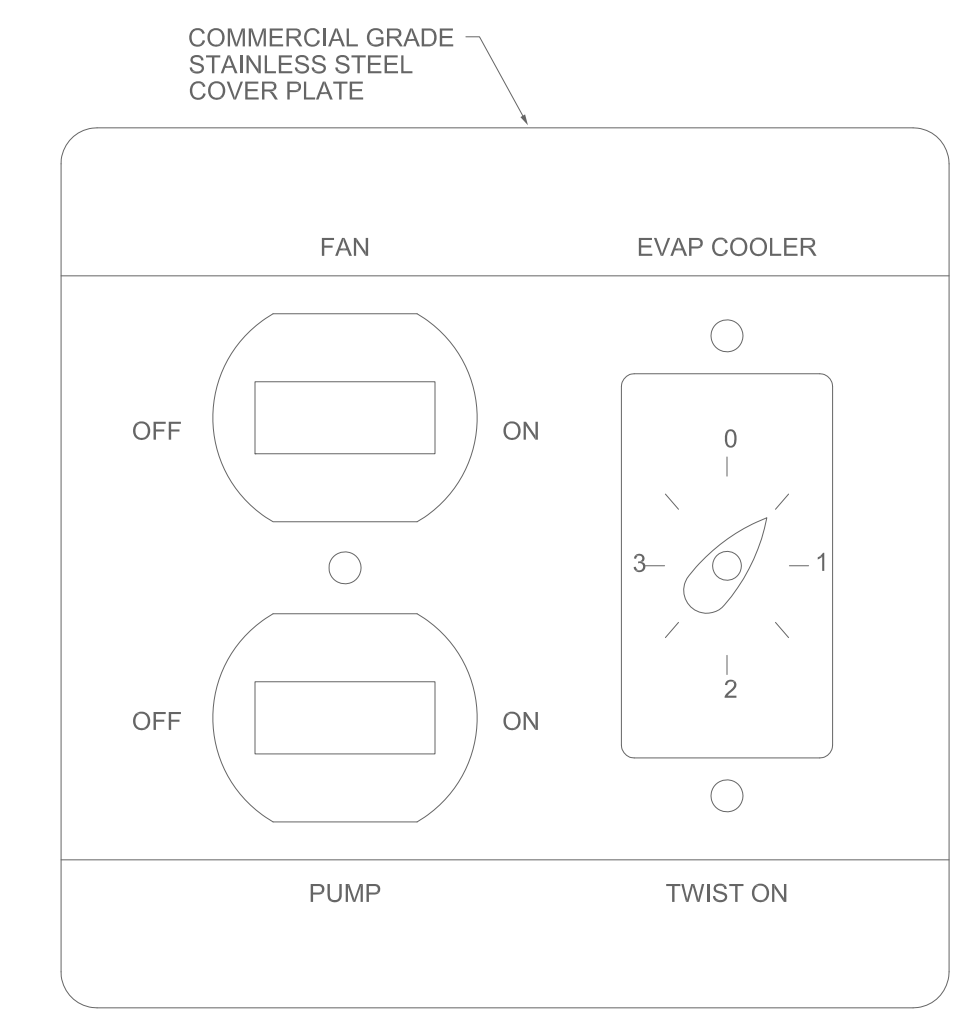




EVAPORATIVE COOLER DETAIL-DOWN DISCHARGE
NO SCALE

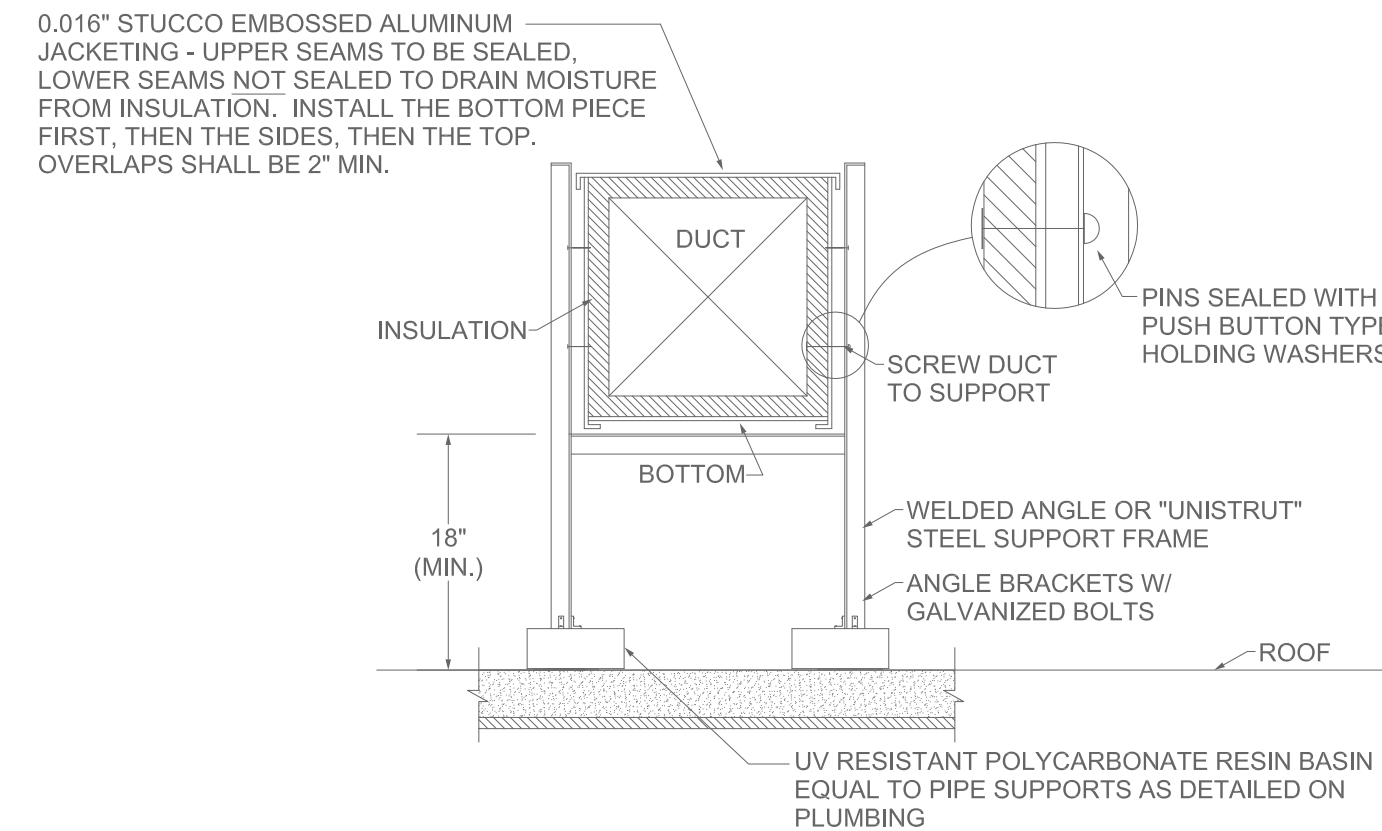


EVAPORATIVE COOLER DETAIL - SIDE DISCHARGE
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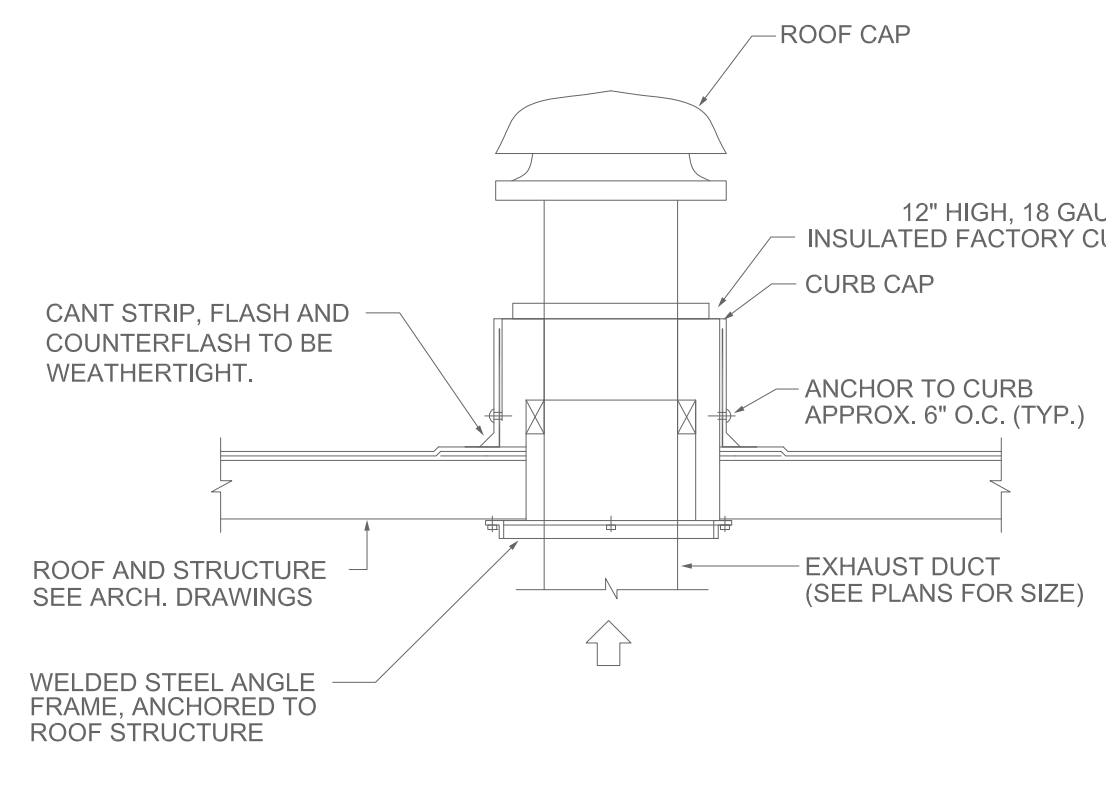


EVAPORATIVE COOLER SWITCH PLATE
NO SCALE

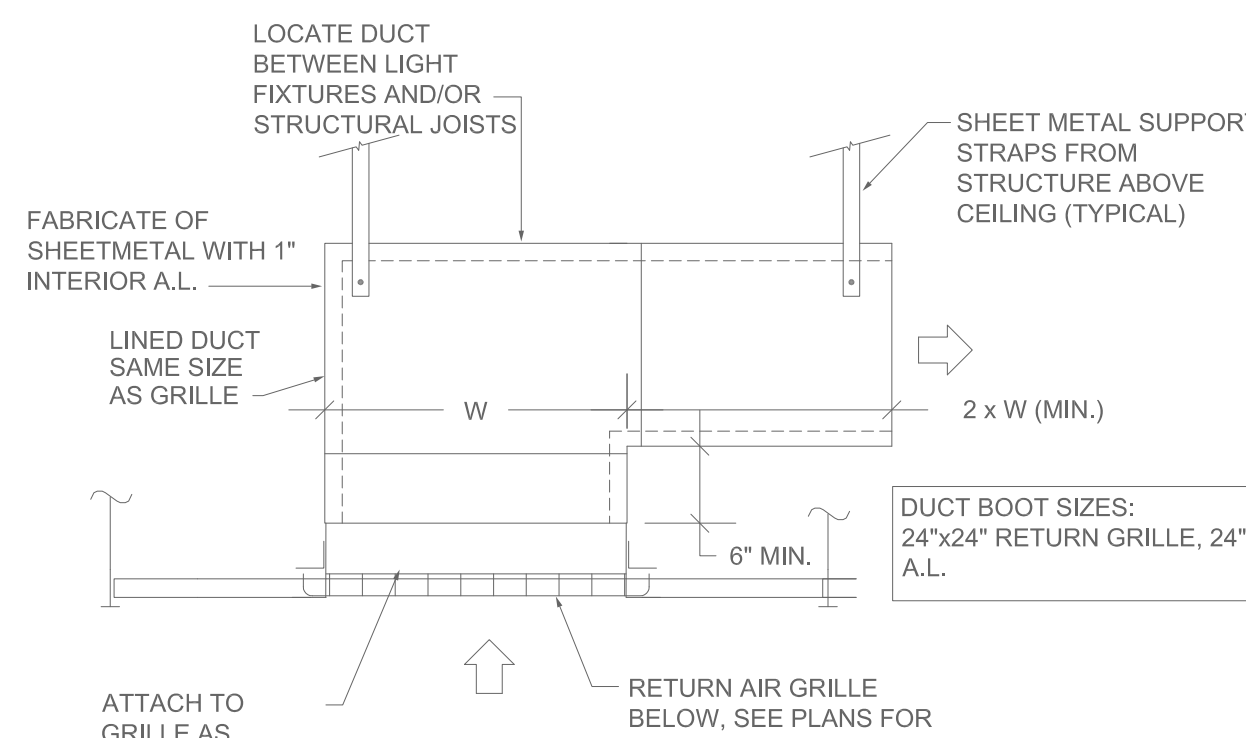
SWITCH PLATE COVER SHALL BE ENGRAVED USING DIAMOND DRAG WITH BLOCK FONT. LETTERS SHALL BE 1/8" HIGH MINIMUM AND SHALL BE FILLED WITH BLACK EPOXY ENAMEL PAINT. CONTACT EXPERIENCED TROPHY SHOP FOR ENGRAVING.



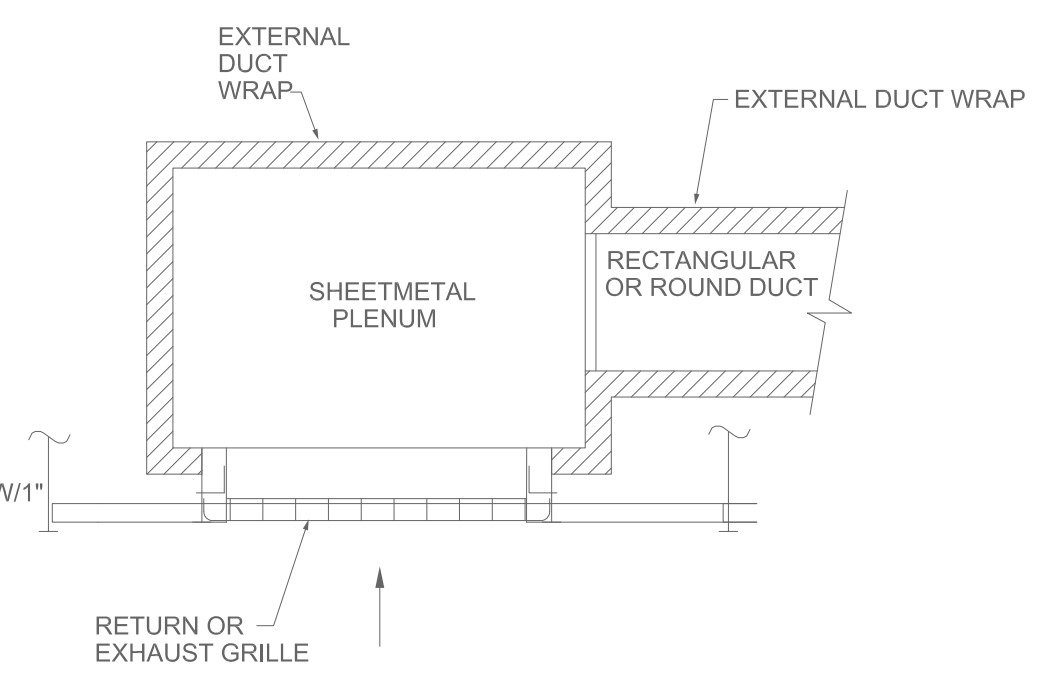
DUCT SUPPORT ON ROOF DETAIL
NO SCALE



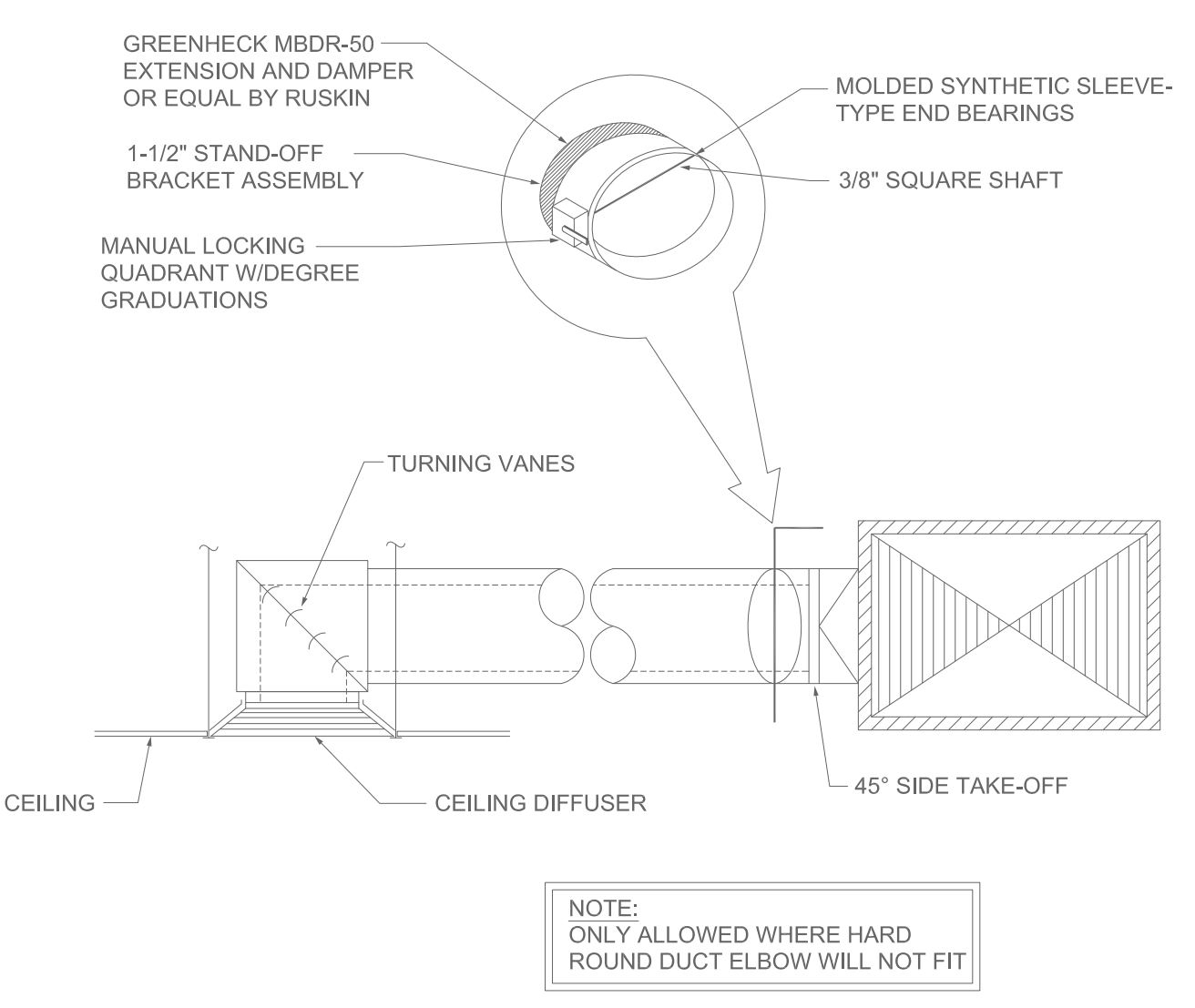
ROOF CAP DETAIL
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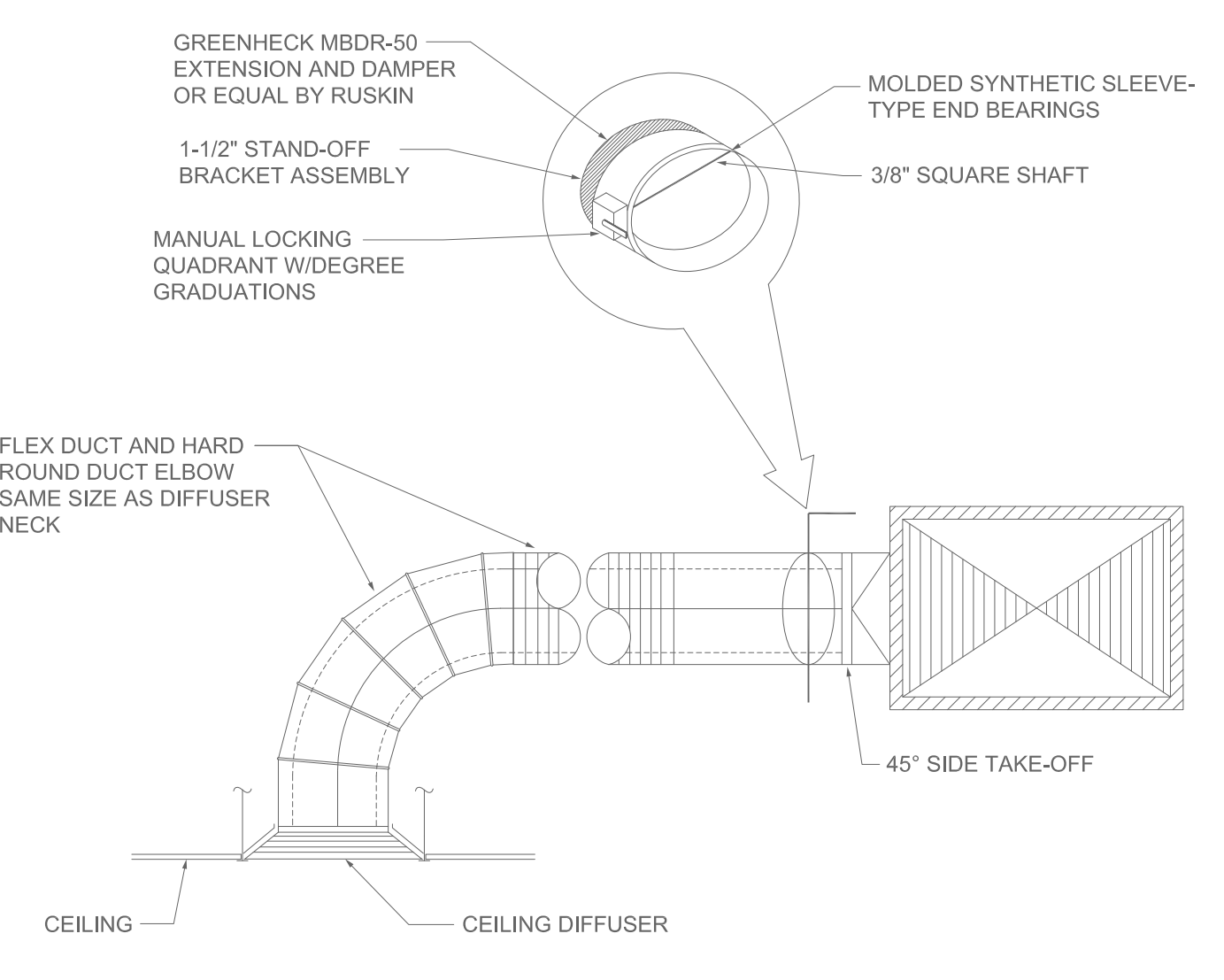
RETURN AIR GRILLE SOUND BOOT DETAIL
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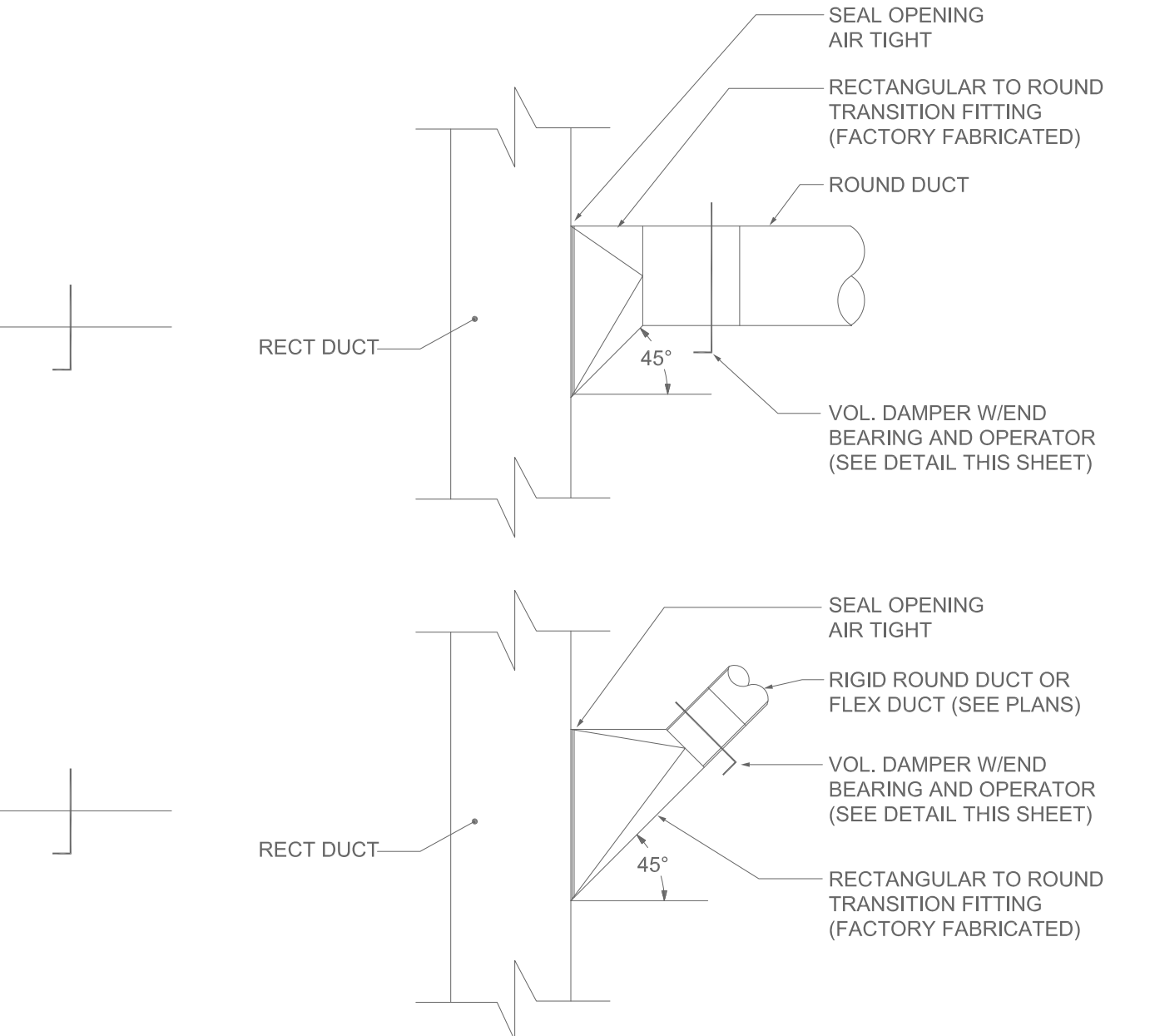
RETURN OR EXHAUST GRILLE DETAIL
NO SCALE



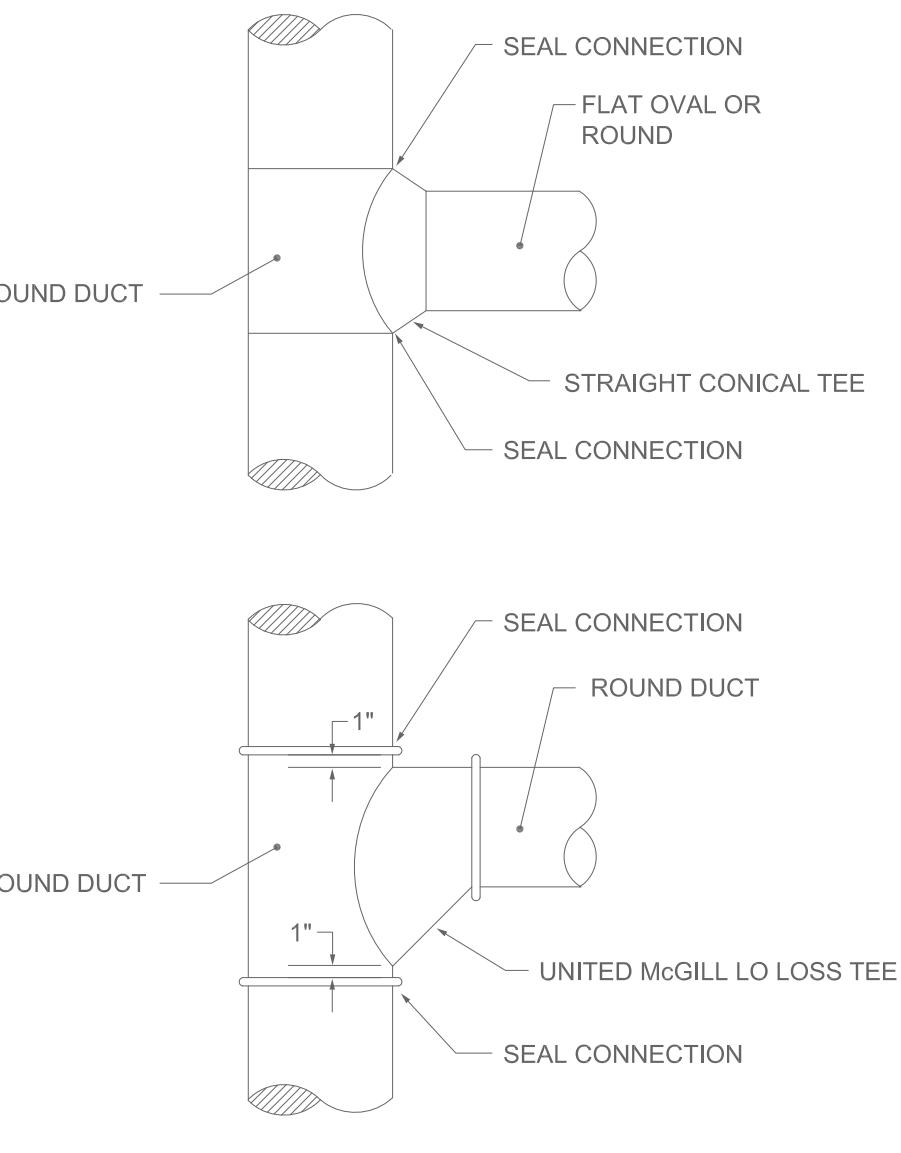
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CEILING DIFFUSER DETAIL
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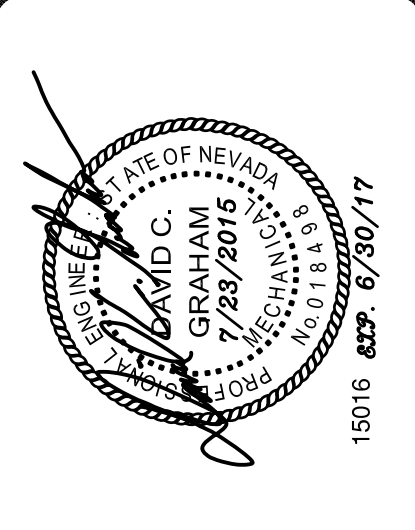
DUCT TAKE-OFFS DETAIL
NO SCALE



NOTE: 45° CONNECTIONS SHALL BE IN DIRECTION OF AIRFLOW

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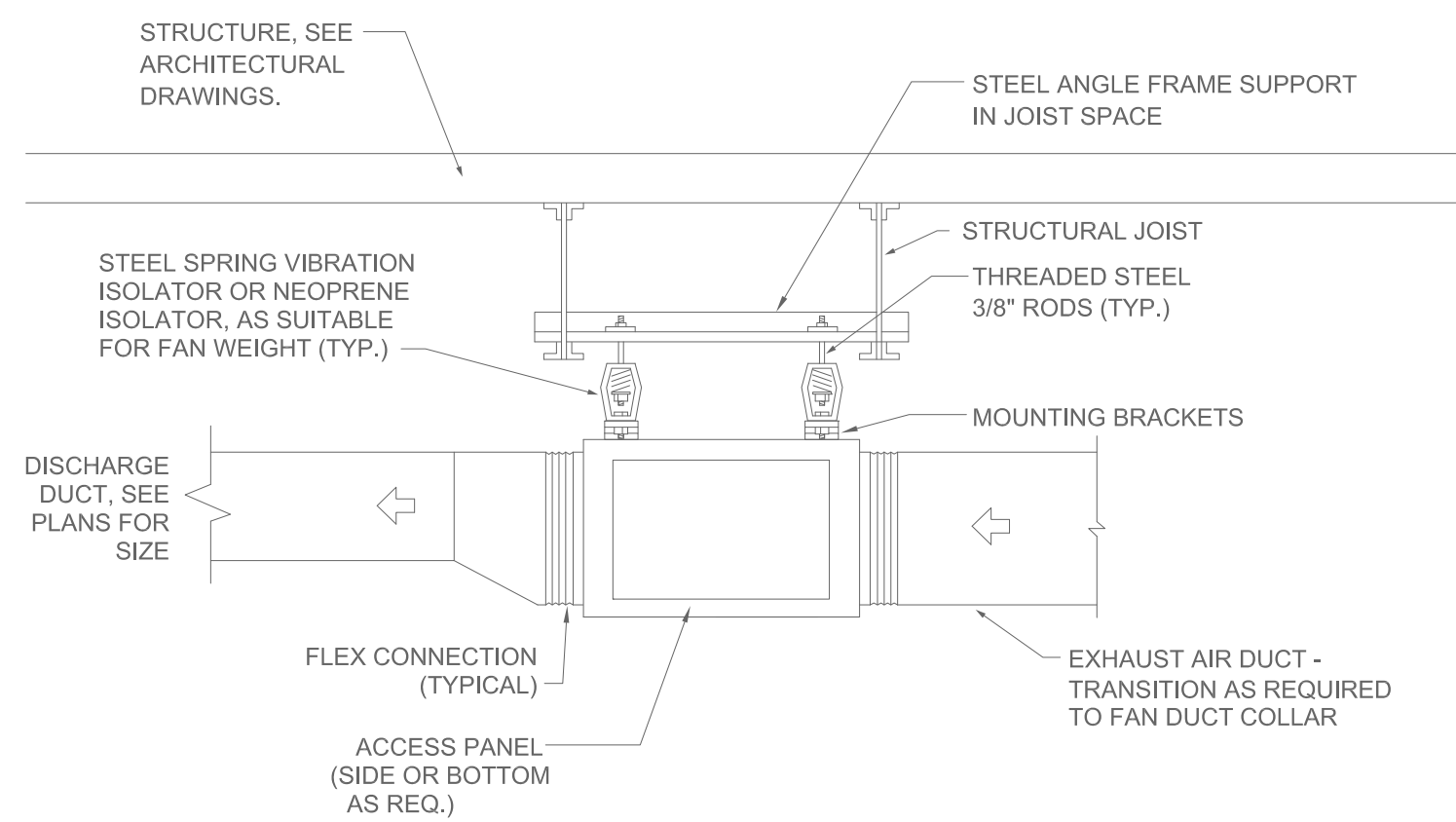
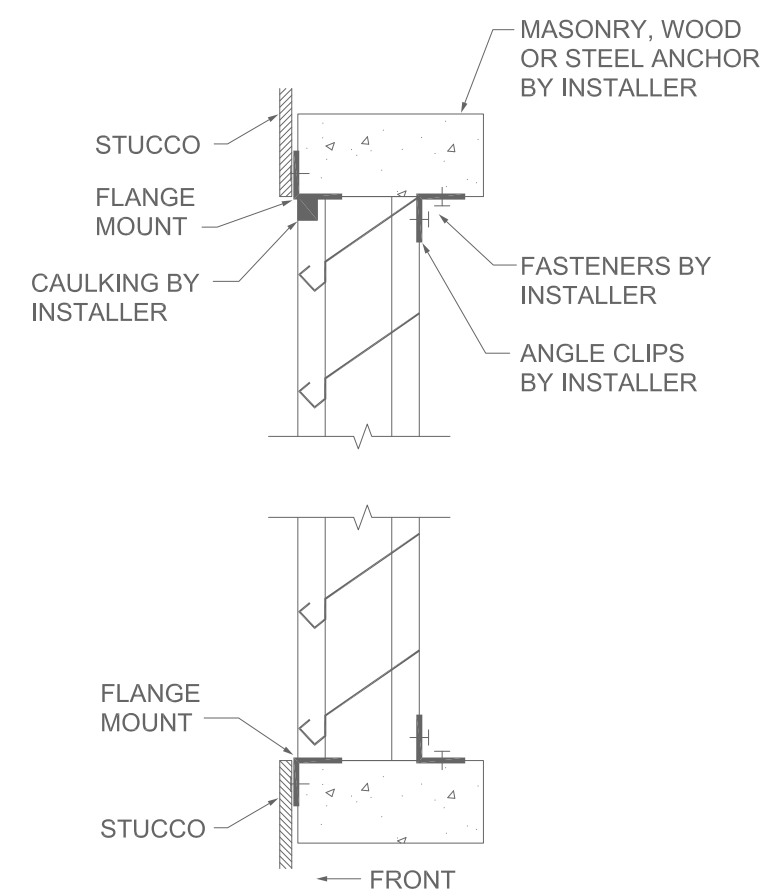
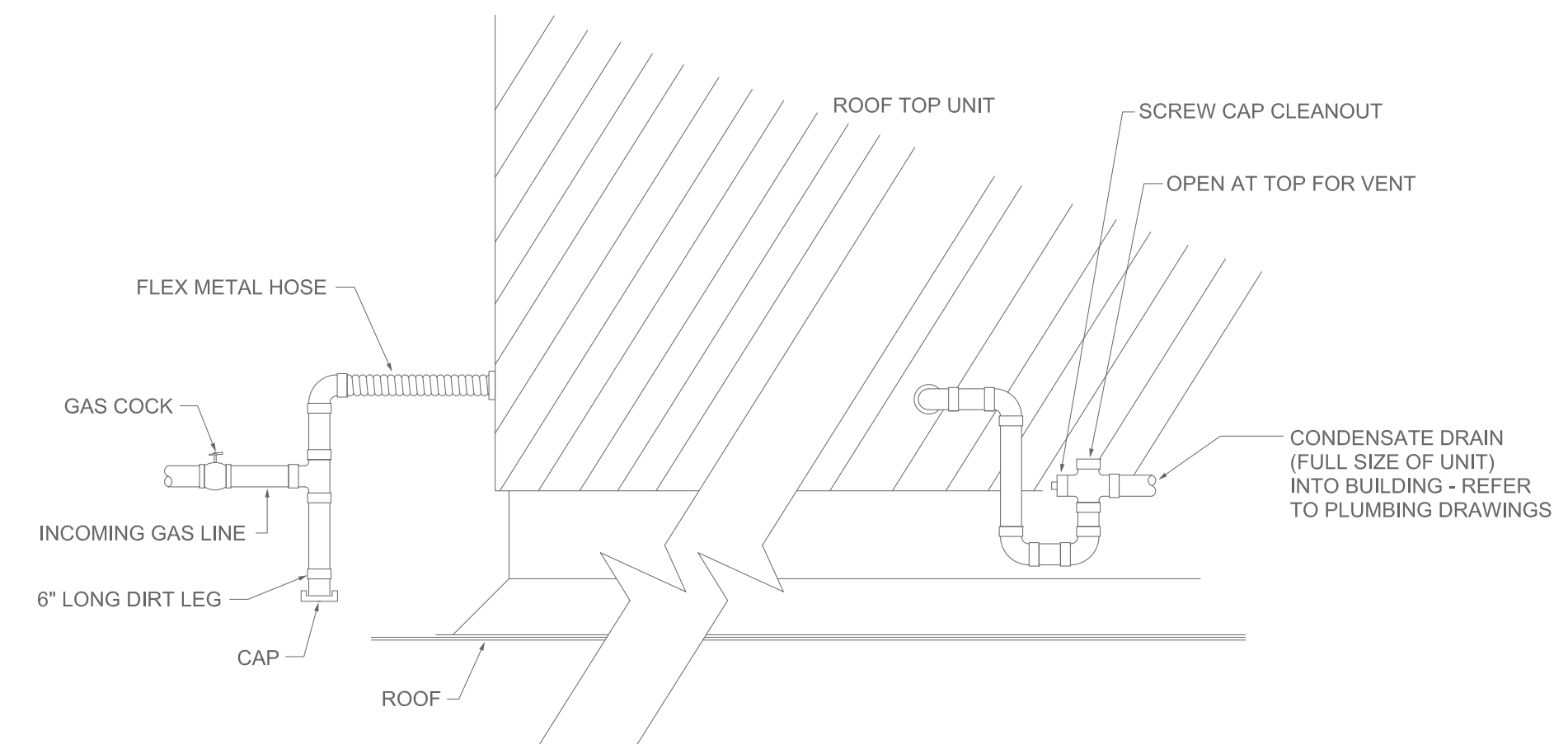
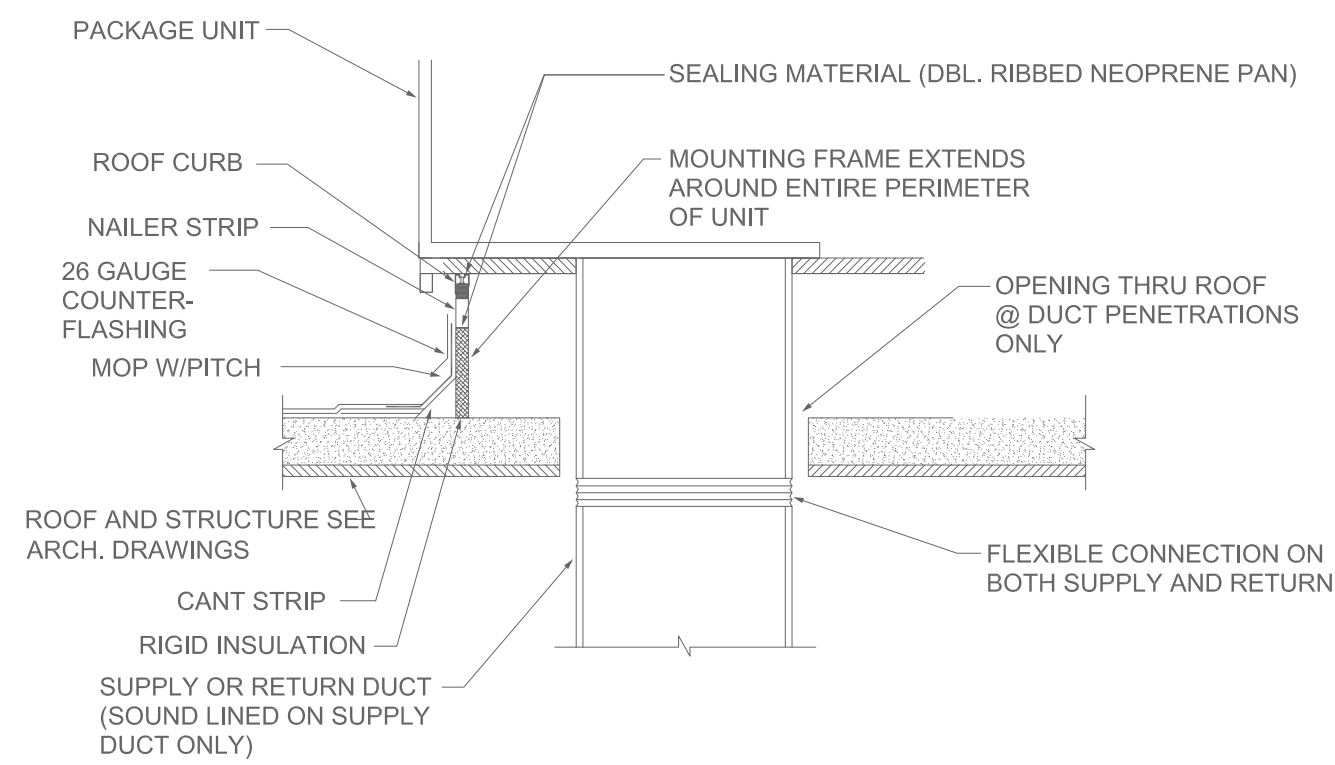
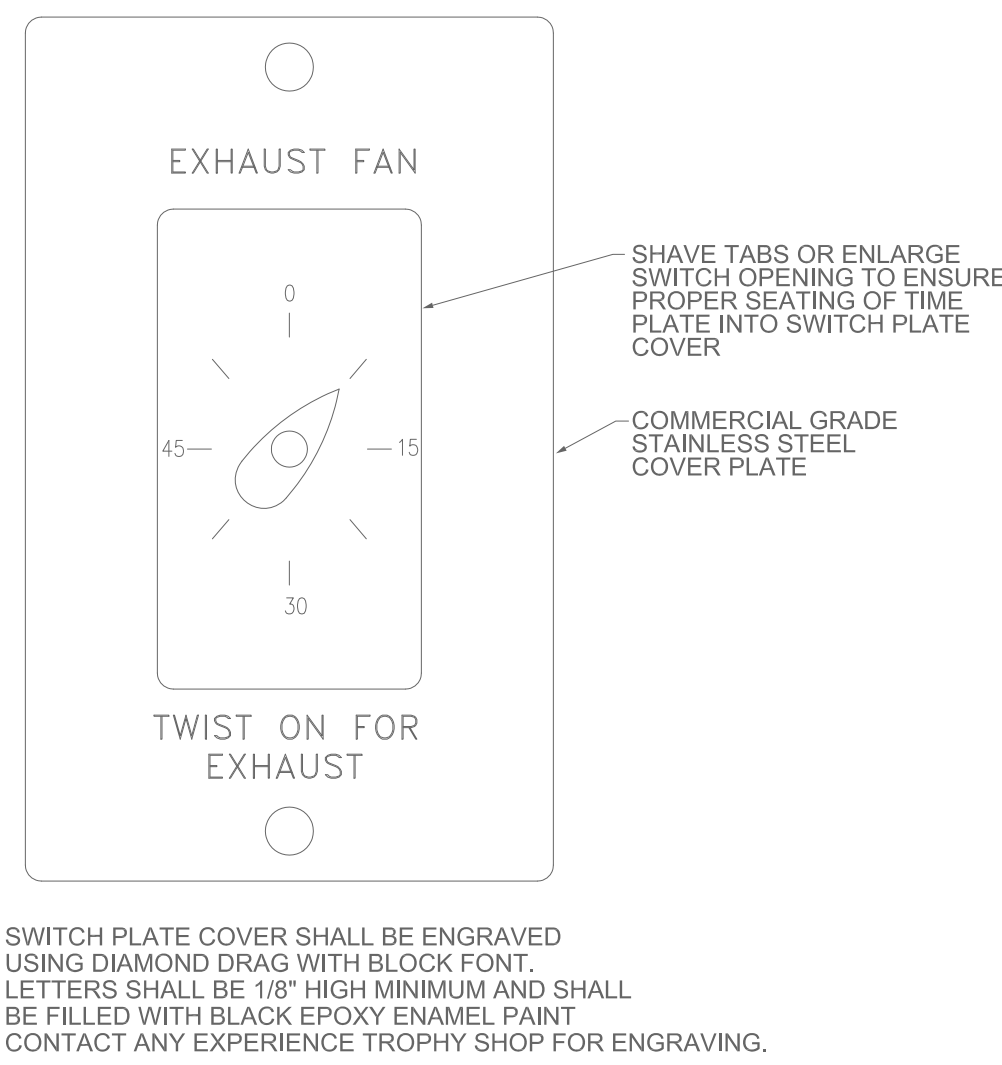
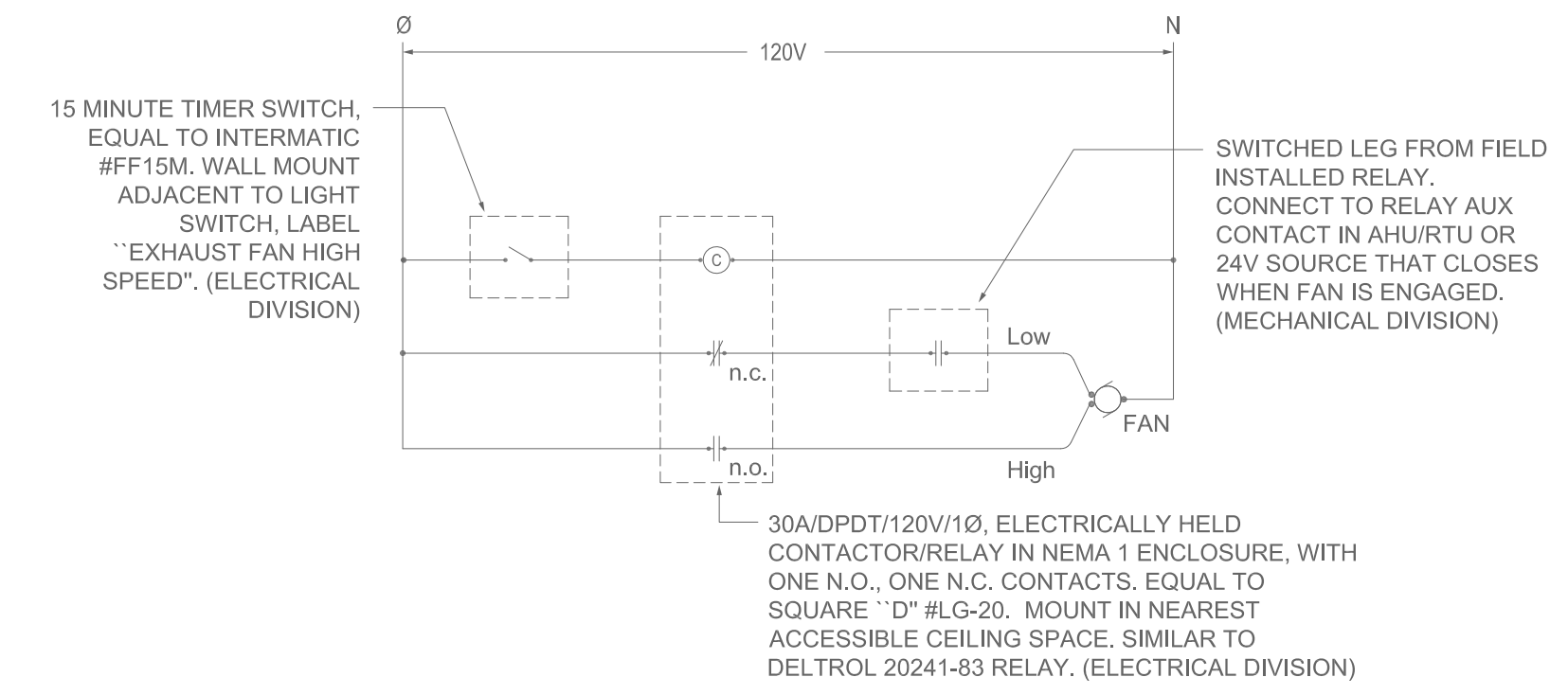
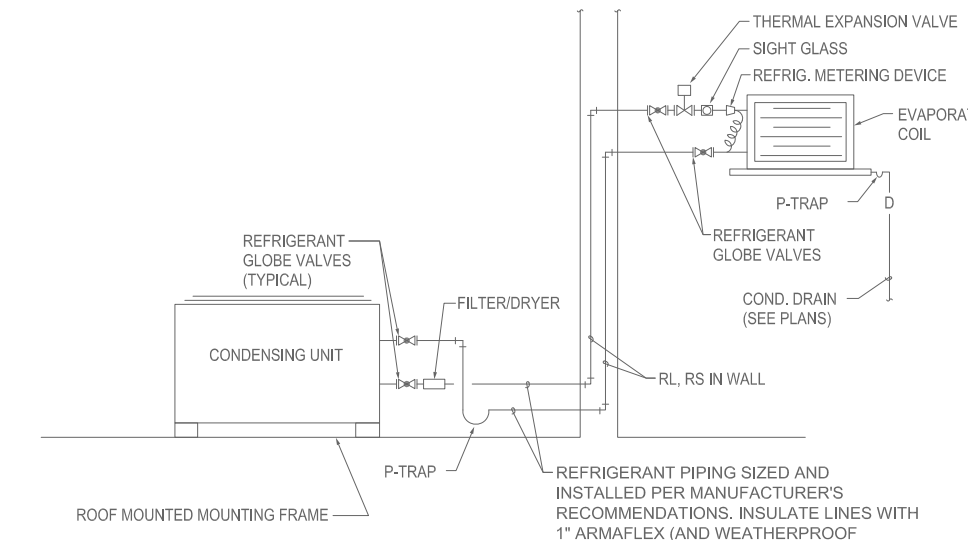
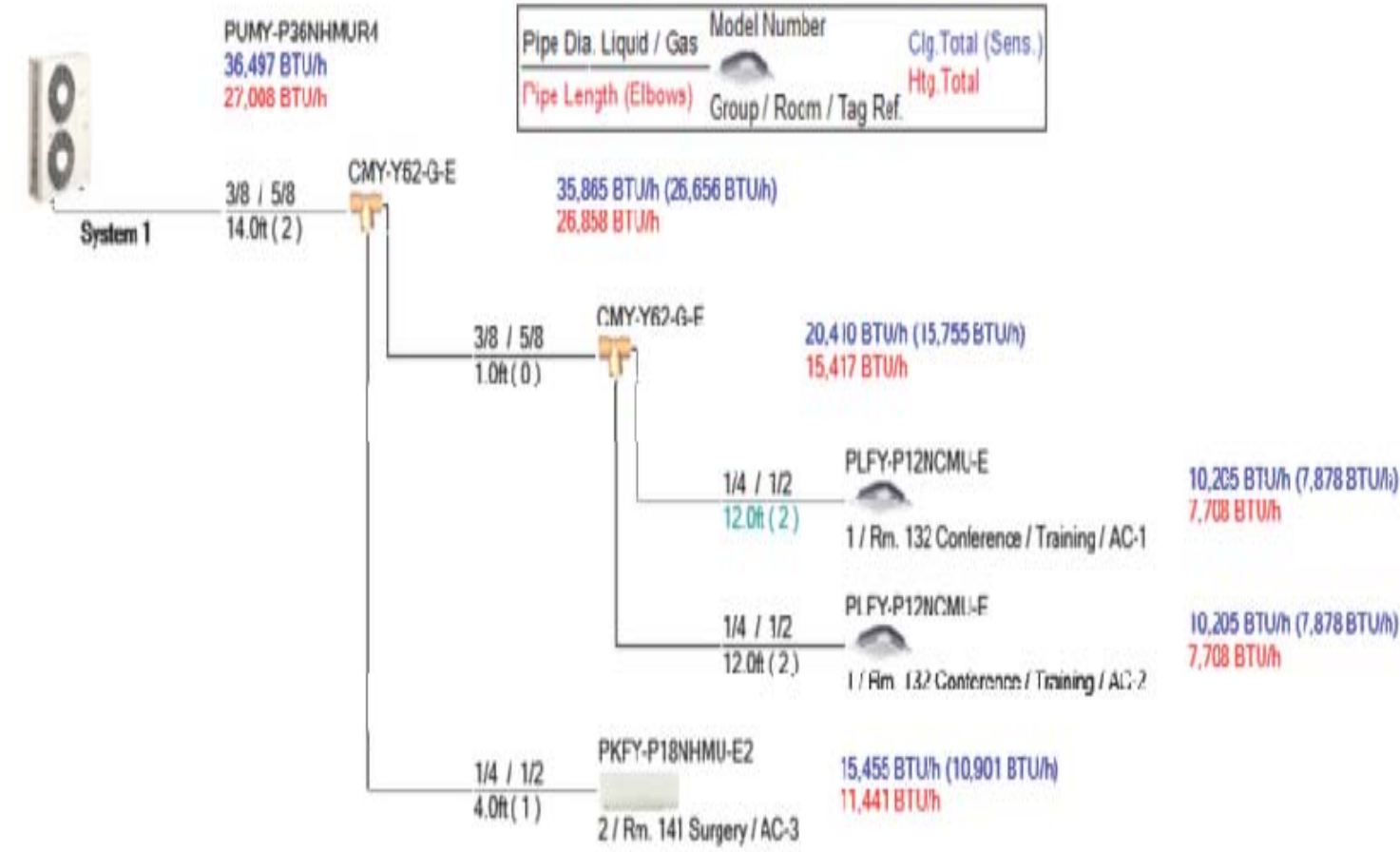
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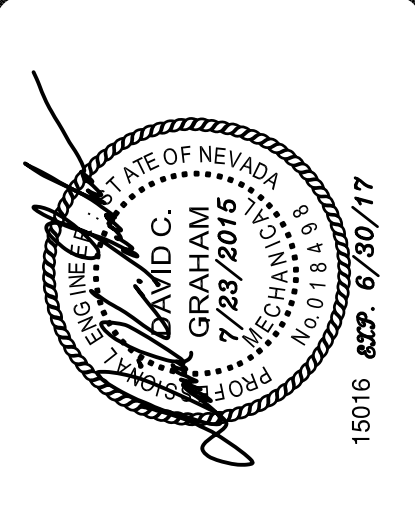
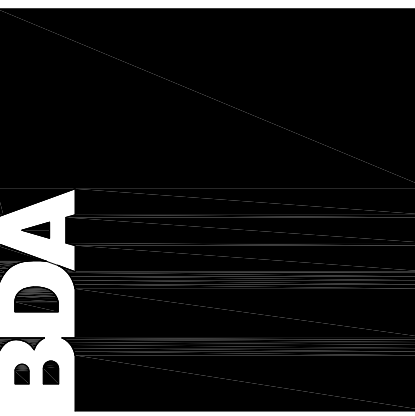
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EXHAUST FAN SCHEDULE											
MARK	SERVICE/MOUNTING	CFM HI/LOW	EXT. SP.	FRPM (RPM)	WATTS/HP	VOLTS/PHASE	SONES	DRIVE	MANUFACTURER AND MODEL #	1 OR 2 SPEED	AC UNIT ZONE
CEF-1	JAN 113 CEILING	80	0.25"	618	48	115V/1	1.0	DIRECT	GREENHECK SP-A200	1	RTU-1
CEF-2	NOT USED										
CEF-3	NOT USED										
CEF-4	JAN 105 CEILING	80	0.25"	618	48	115V/1	1.0	DIRECT	GREENHECK SP-A200	1	RTU-1
CEF-5	MENS RR 119 CEILING	80	0.25"	618	48	115V/1	1.0	DIRECT	GREENHECK SP-A200	1	RTU-2
CEF-6	WOMENS RR 121 CEILING	80	0.25"	618	48	115V/1	1.0	DIRECT	GREENHECK SP-A200	1	RTU-2
CEF-7	JAN 122 CEILING	80	0.25"	618	48	115V/1	1.0	DIRECT	GREENHECK SP-A200	1	RTU-2
CEF-8	UNISEX RR 131 CEILING	80	0.25"	618	48	115V/1	1.0	DIRECT	GREENHECK SP-A200	1	RTU-2
CEF-9	CONFERENCE/TRAINING 132 CEILING	150	0.25"	772	81	115V/1	0.9	DIRECT	GREENHECK SP-A290	1	RTU-2
CEF-10	INTAKE FP LAUNDRY/BATHE 138 CEILING	200	0.25"	772	81	115V/1	0.9	DIRECT	GREENHECK SP-A290	1	RTU-4
CEF-11	MENS SHOWER 145 CEILING	80	0.25"	618	48	115V/1	1.0	DIRECT	GREENHECK SP-A200	1	RTU-4
CEF-12	JAN 147 CEILING	80	0.25"	618	48	115V/1	1.0	DIRECT	GREENHECK SP-A200	1	RTU-4
CEF-13	WOMENS SHOWER 142 CEILING	80	0.25"	618	48	115V/1	1.0	DIRECT	GREENHECK SP-A200	1	RTU-4
CEF-14	STAFF LOUNGE 144 CEILING	150	0.25"	772	81	115V/1	0.9	DIRECT	GREENHECK SP-A290	1	RTU-4
CEF-15	MECHANICAL STORAGE 156 CEILING	150	0.25"	772	81	115V/1	0.9	DIRECT	GREENHECK SP-A290	1	RTU-4
IEF-1	CANINE RUN 1 RM 114 INLINE-CEILING SPACE	650/1260	0.375"	FACTORY DETERMINED	1/2 HP	115V/1	6.7	DIRECT	GREENHECK SQ-120-VG	2	EC-1
IEF-2	SMALL DOG ADOPTION 112 INLINE-CEILING SPACE	250/400	0.35"	FACTORY DETERMINED	1/6 HP	115V/1	7.5	DIRECT	GREENHECK SQ-90-VG	2	RTU-1
IEF-3	PUPPY ADOPTION 110/FELINE PLAY INLINE-CEILING SPACE	460/690	0.35"	FACTORY DETERMINED	1/4 HP	115V/1	6.2	DIRECT	GREENHECK SQ-95-VG	2	RTU-1
IEF-4	FELINE ADOPTION 107 INLINE-CEILING SPACE	260/380	0.35"	FACTORY DETERMINED	1/6 HP	115V/1	7.5	DIRECT	GREENHECK SQ-90-VG	2	RTU-1
IEF-5	FELINE ADOPTION 106 INLINE-CEILING SPACE	380/560	0.35"	FACTORY DETERMINED	1/4 HP	115V/1	6.2	DIRECT	GREENHECK SQ-95-VG	2	RTU-1
IEF-6	CANINE RUN 2 RM 117 INLINE-CEILING SPACE	650/1260	0.375"	FACTORY DETERMINED	1/2 HP	115V/1	6.7	DIRECT	GREENHECK SQ-120-VG	2	EC-2
IEF-7	CANINE ACQUAINT 115 & 118 INLINE-CEILING SPACE	250/400	0.35"	FACTORY DETERMINED	1/6 HP	115V/1	7.5	DIRECT	GREENHECK SQ-90-VG	2	RTU-2
IEF-8	SURRENDER EXAM 127 INLINE-CEILING SPACE	300	0.25"	FACTORY DETERMINED	1/6 HP	115V/1	1.5	DIRECT	GREENHECK SQ-75-VG	2	RTU-2
IEF-9	BEHAVIORAL EXAM 123/EXOTIC HOLD 137 INLINE-CEILING SPACE	290/400	0.35"	FACTORY DETERMINED	1/6 HP	115V/1	7.5	DIRECT	GREENHECK SQ-90-VG	2	RTU-2
IEF-10	EXAM TREATMENT 134/ICU 136 INLINE-CEILING SPACE	550/900	0.375"	FACTORY DETERMINED	1/2 HP	115V/1	6.7	DIRECT	GREENHECK SQ-120-VG	2	RTU-3
IEF-11	FERAL CAT 148/CANINE ISOLATION 150 INLINE-CEILING SPACE	450/720	0.35"	FACTORY DETERMINED	1/4 HP	115V/1	6.2	DIRECT	GREENHECK SQ-95-VG	2	RTU-3
IEF-12	CANINE ISOLATION 150/FELINE ISOLATION 152 INLINE-CEILING SPACE	300/400	0.35"	FACTORY DETERMINED	1/6 HP	115V/1	7.5	DIRECT	GREENHECK SQ-90-VG	2	RTU-4
IEF-13	INTAKE EXAM 153/EUTHANASIA 155 INLINE-CEILING SPACE	450/720	0.35"	FACTORY DETERMINED	1/4 HP	115V/1	6.2	DIRECT	GREENHECK SQ-95-VG	2	RTU-4
IEF-14	NOT USED										
IEF-15	CANINE HOLD QUARANTINE INLINE-CEILING SPACE	650/1260	0.375"	FACTORY DETERMINED	1/2 HP	115V/1	6.7	DIRECT	GREENHECK SQ-120-VG	2	EC-4
RF-1	INTAKE GARAGE CENTRIFUGAL EXHAUST	4000	0.5"	1725 RPM	1.5 HP	208V/1	11	BELT	GREENHECK GB-200-15	1	EC-5

- NOTES:
1. SUPPORT ALL FANS FROM STRUCTURE AND PROVIDE VIBRATION ISOLATION.
2. PROVIDE ALL FANS WITH BACKDRAFT DAMPERS.
3. PROVIDE EACH DIRECT DRIVE FAN WITH A SOLID-STATE SPEED CONTROLLER MOUNTED ON FAN HOUSING OR WITH VARI-GREEN TYPE ECM MOTOR (DESIGNATED VG)
4. PROVIDE ALL INLINE FANS WITH INTERNAL SOUND ABSORBING INSULATED HOUSINGS (1/2" THICK).
5. PROVIDE ALL SERVICE AND OPERATIONAL CLEARANCES AS REQUIRED, INCLUDING ALL CLEARANCES REQUIRED BY NEC ARTICLE 110.
6. ALL FANS SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS.
7. PROVIDE ROOF MOUNTED EXHAUST FAN (RF-1) WITH FACTORY ROOF CURB, BIRD SCREEN AND HORIZONTAL MOUNT EXHAUST DAMPER(WD-100)

SEQUENCE OF OPERATION:

CEF-1:	INTERLOCK WITH WALL SWITCH	IEF-5:	INTERLOCK LOW SPEED WITH (RTU-1) 15 MINUTE TWIST TIMER HIGH SPEED
CEF-2:	NOT USED	IEF-6:	INTERLOCK WITH EC-2/ 15 MINUTE TWIST TIMER OVERRIDE
CEF-3:	NOT USED	IEF-7:	INTERLOCK LOW SPEED WITH (RTU-2) 15 MINUTE TWIST TIMER HIGH SPEED
CEF-4:	INTERLOCK WITH WALL SWITCH	IEF-8:	INTERLOCK WITH 15 MINUTE TWIST TIMER
CEF-5:	INTERLOCK WITH LIGHT SWITCH	IEF-9:	INTERLOCK LOW SPEED WITH (RTU-2) 15 MINUTE TWIST TIMER HIGH SPEED
CEF-6:	INTERLOCK WITH LIGHT SWITCH	IEF-10:	INTERLOCK LOW SPEED WITH (RTU-3) 15 MINUTE TWIST TIMER HIGH SPEED
CEF-7:	INTERLOCK WITH WALL SWITCH	IEF-11:	INTERLOCK LOW SPEED WITH (RTU-3) 15 MINUTE TWIST TIMER HIGH SPEED
CEF-8:	INTERLOCK WITH LIGHT SWITCH	IEF-12:	INTERLOCK LOW SPEED WITH (RTU-4) 15 MINUTE TWIST TIMER HIGH SPEED
CEF-9:	INTERLOCK WITH 15 MINUTE TWIST TIMER	IEF-13:	INTERLOCK LOW SPEED WITH (RTU-4) 15 MINUTE TWIST TIMER HIGH SPEED
CEF-10:	INTERLOCK WITH WALL SWITCH	IEF-14:	NOT USED
CEF-11:	INTERLOCK WITH LIGHT SWITCH	IEF-15:	INTERLOCK EC-4/ 15 MINUTE TWIST TIMER OVERRIDE
CEF-12:	INTERLOCK WITH WALL SWITCH	RF-1:	INTERLOCK WITH EC-5/ 15 MINUTE TWIST TIMER OVERRIDE
CEF-13:	INTERLOCK WITH LIGHT SWITCH		
CEF-14:	INTERLOCK WITH WALL SWITCH		
CEF-15:	INTERLOCK WITH WALL SWITCH		
IEF-1:	INTERLOCK EC-1		
IEF-2:	INTERLOCK LOW SPEED WITH (RTU-1) 15 MINUTE TWIST TIMER HIGH SPEED		
IEF-3:	INTERLOCK LOW SPEED WITH (RTU-1) 15 MINUTE TWIST TIMER HIGH SPEED		
IEF-4:	INTERLOCK LOW SPEED WITH (RTU-1) 15 MINUTE TWIST TIMER HIGH SPEED		

ELECTRICAL DIVISION SHALL PROVIDE ALL SWITCHES AND TWIST TIMERS. ELECTRICAL DIVISION SHALL BE RESPONSIBLE FOR ALL INTERLOCKS WITH LIGHT SWITCHES, TWIST TIMERS, AND WALL SWITCHES. REFER TO ELECTRICAL DRAWINGS.
MECHANICAL DIVISION SHALL BE RESPONSIBLE FOR ALL INTERLOCKS WITH AC UNITS. PROVIDE LOW VOLTAGE CONTROL RELAYS AS REQUIRED.
ALL EXHAUST FANS INTERLOCKED WITH AC UNITS SHALL SHUT OFF WHEN AC UNIT INDOOR FAN SHUTS OFF.

MECHANICAL SYMBOL LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	NEW SUPPLY/RETURN/EXHAUST CEILING GRILLE		NEW FLEX DUCT (TYPICAL FOR ALL RUN-OUT DUCTS TO DIFFUSERS)
	NEW SUPPLY/RETURN FLOOR GRILLE		NEW MANUAL BALANCING DAMPER WITH OFFSET BRACKET AND EXTENDED PIN (OPPOSED BLADE DAMPER IN RECTANGULAR DUCT, BUTTERFLY DAMPER IN ROUND DUCT) DAMPER SHALL BE INSTALLED IN ACCESSIBLE LOCATION.
	NEW SIDEWALL SUPPLY GRILLE		NEW BACKDRAFT DAMPER. AIRFLOW SHALL ONLY BE PERMITTED IN DIRECTION INDICATED BY AIRFLOW ARROW. DAMPER SHALL BE INSTALLED IN ACCESSIBLE LOCATION.
	D1, 8"Ø 200 CFM DIFFUSER TYPE, NECK SIZE, AND CFM		45-DEGREE DUCT TAP WITH BALANCE DAMPER. TYPICAL FOR ALL LOW PRESSURE DUCT CONNECTIONS (TAP SHALL BE FACTORY FABRICATED FOR ALL ROUND RUNOUT BRANCH DUCTS TO DIFFUSERS AND GRILLES). 45-DEGREE CONNECTION SHALL BE IN DIRECTION OF AIRFLOW. DAMPER SHALL BE INSTALLED IN ACCESSIBLE LOCATION.
	DIFFUSER THROW PATTERN (4-WAY THROW IF NO PATTERN SHOWN)		DUCT TRANSITION (DOES NOT INDICATE DIRECTION OF FLOW)
	CEILING-MOUNTED ACCESS DOOR		DUCT WIDTH BY DUCT HEIGHT
	SUPPLY/RETURN/EXHAUST DUCTWORK RISER UP		NEW 90 DEGREE ELBOW W/ SINGLE WIDTH TURNING VANES OR NEW LONG RADIUS ELBOW (r/D = 1.5) OR NEW SHORT RADIUS ELBOW W/ SINGLE WIDTH TURNING VANES
	SUPPLY/RETURN/EXHAUST DUCTWORK RISER DOWN		NEW MECHANICAL EQUIPMENT
	NEW SUPPLY/RETURN/EXHAUST DUCT		KEYED NOTE SYMBOL DESIGNATION
	NEW DUCT WITH ACOUSTICAL LINING		NEW EQUIPMENT SYMBOL DESIGNATION
	NEW ROOM THERMOSTAT		
	ASSOCIATED EQUIPMENT		

AIR DISTRIBUTION DEVICE SCHEDULE						
MARK	DESCRIPTION	MOUNTING	MANUFACTURER AND MODEL #	MATERIAL	FINISH	REMARKS
D1	ADJUSTABLE CEILING SUPPLY DIFFUSER	LAY-IN CEILING	TITUS TMSA-AA	ALUMINUM	WHITE BAKED ENAMEL	24/24 FULLY LOUVERED FACE, ADJUSTABLE HORVVERT DISCHARGE, 4-WAY THROW OR AS SHOWN, AND NECK SIZE AS INDICATED
D2	ADJUSTABLE CEILING SUPPLY DIFFUSER	SURFACE CLG. WITH RAPID MOUNT FRAME	TITUS TMSA-AA	ALUMINUM	WHITE BAKED ENAMEL	12/12 FULLY LOUVERED FACE, ADJUSTABLE HORVVERT DISCHARGE, 4-WAY THROW OR AS SHOWN, AND NECK SIZE AS INDICATED
D3	SIDEWALL SUPPLY REGISTER	DUCT MOUNT	TITUS 300FL	ALUMINUM	COLOR BY ARCHITECT	DOUBLE DEFLECTION, 3/4" BLADE SPACING, FRONT BLADES PARALLEL TO LONG DIMENSION, NECK SIZE AS INDICATED ON PLAN, FURNISH W/OBJD ADJ. THRU FACE.
G1	CEILING EXHAUST/ RETURN GRILLE	LAY-IN CEILING	TITUS 50F	ALUMINUM	WHITE BAKED ENAMEL	24/24 PANEL 1/2"x1/2"x1/2" EGG CRATE CORE
G2	CEILING EXHAUST/ RETURN GRILLE	LAY-IN CEILING	TITUS 50F	ALUMINUM	WHITE BAKED ENAMEL	24/12 PANEL 1/2"x1/2"x1/2" EGG CRATE CORE
G3	CEILING EXHAUST/ RETURN GRILLE	LAY-IN CEILING	TITUS 50F	ALUMINUM	WHITE BAKED ENAMEL	12/12 PANEL 1/2"x1/2"x1/2" EGG CRATE CORE
G4	SIDEWALL RETURN REGISTER	SURFACE SIDEWALL	TITUS 350ZFL	ALUMINUM	WHITE BAKED ENAMEL	3/4" BLADE SPACING WITH 0 DEG. DEFLECTION WITH FRONT BLADES PARALLEL TO LONG DIMENSION AND NECK SIZE ON DRAWING.
G5	CEILING EXHAUST/ RETURN GRILLE	SURFACE CLG. WITH RAPID MOUNT FRAME	TITUS 50F	ALUMINUM	WHITE BAKED ENAMEL	24/12 PANEL 1/2"x1/2"x1/2" EGG CRATE CORE
SR	SIDEWALL SUPPLY AIR REGISTER	SURFACE SIDEWALL	TITUS 300FL	ALUMINUM	WHITE BAKED ENAMEL	DOUBLE DEFLECTION, 3/4" BLADE SPACING, FRONT BLADES PARALLEL TO LONG DIMENSION AND NECK SIZED ON DRAWING, FURNISH WITH OPPOSED BLADE DAMPERS ADJUSTABLE THRU FACE.
L1	EXTERIOR WALL LOUVER	SURFACE MOUNTED	RUSTKIN ELF-375DX	ALUMINUM	KYNAR 500, COLOR BY ARCHITECT	LOUVER SIZE AS INDICATED. FLANGE MOUNT, PROVIDE WITH BIRDSCREEN.

- NOTES:
1. AIR DISTRIBUTION DEVICES SERVING WAREHOUSE AREA SHALL BE CONSTRUCTED WITH MATERIALS AND FINISHES SUITABLE FOR USE WITH EVAPORATIVE COOLING.
2. PROVIDE TAPERED TRANSITIONS FOR ALL SUPPLY DIFFUSERS WITH NECK SIZES DIFFERENT THAN SUPPLY DUCT RUN-OUT SIZES.
3. PROVIDE UNIT WITH OPPOSED BLADE DAMPERS WHEN INSTALLED IN GYP BOARD CEILINGS WHERE MANUAL BALANCING DAMPERS ARE NOT INSTALLED FOR BALANCING AIRFLOWS.

GAS FIRED INFRA-RED TUBE HEATER SCHEDULE								
MARK	SERVICE	LENGTH (FEET)	REFLECTOR ANGLE	AMPS	POWER SUPPLY	HEATING		MANUFACTURER AND MODEL #
						INPUT (MBH)	OUTPUT (MBH)	
IRH-1	INTAKE GARAGE	30	0°	2.6	120/1	50	31.5	SPACE-RAY LTS-50-30
IRH-2	INTAKE GARAGE	15	0°	2.6	120/1	40	25	SPACE-RAY LTS-40-15

- NOTES:
1. PROVIDE PROPER BURNERS AND ORIFICES FOR SITE ELEVATION.
2. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH OWNER. DO NOT INSTALL ABOVE OR BELOW MOUNTING HEIGHTS REQUIRED BY MANUFACTURER.
3. INSTALL VENT AND COMBUSTION AIR DUCT PER MANUFACTURER'S REQUIREMENTS. PROVIDE VENT WITH ALL REQUIRED CLEARANCES TO COMBUSTIBLES.
4. INSTALL UNITS PER MANUFACTURER'S REQUIREMENTS. PROVIDE UNITS WITH ALL REQUIRED SERVICE AND OPERATIONAL CLEARANCES, INCLUDING ALL REQUIRED CLEARANCES TO COMBUSTIBLES.
ACCESSORIES: HIGH ALTITUDE CONVERSION KIT, HANGER KIT, END CAP, COMBUSTION AIR INLET KIT, DRAFT INDUCER, WALL-MOUNTED THERMOSTAT.

EVAPORATIVE COOLER SCHEDULE									
MARK	AREA SERVED	FAN DATA				POWER SUPPLY	APPROX. WEIGHT (LBS)	MANUFACTURER AND MODEL #	REMARKS
		CFM	EXT. SP.	FAN HP	SPEED				
EC-1	CANINE RUN #1 117	Hi=2,000 LOW=1,340	0.8"	3/4	1	115V/1Ø	480	PHOENIX MANUFACTURING EVAPCOOL FRIGIKING FS 650	PROVIDE WITH 115V/1Ø INTEGRAL CIRC. PUMP
EC-2	CANINE RUN #2 120	Hi=2,000 LOW=1,340	0.8"	3/4	1	115V/1Ø	480	PHOENIX MANUFACTURING EVAPCOOL FRIGIKING FS 650	PROVIDE WITH 115V/1Ø INTEGRAL CIRC. PUMP
EC-3	NOT USED								
EC-4	CANINE HOLD/ QUARANTINE 155	Hi=2,000 LOW=1,340	0.8"	3/4	1	115V/1Ø	480	PHOENIX MANUFACTURING EVAPCOOL FRIGIKING FS 650	PROVIDE WITH 115V/1Ø INTEGRAL CIRC. PUMP
EC-5	INTAKE GARAGE 158	3,890	0.5"	3/4	1	115V/1Ø	480	PHOENIX MANUFACTURING EVAPCOOL FRIGIKING FS 650	PROVIDE WITH 115V/1Ø INTEGRAL CIRC. PUMP

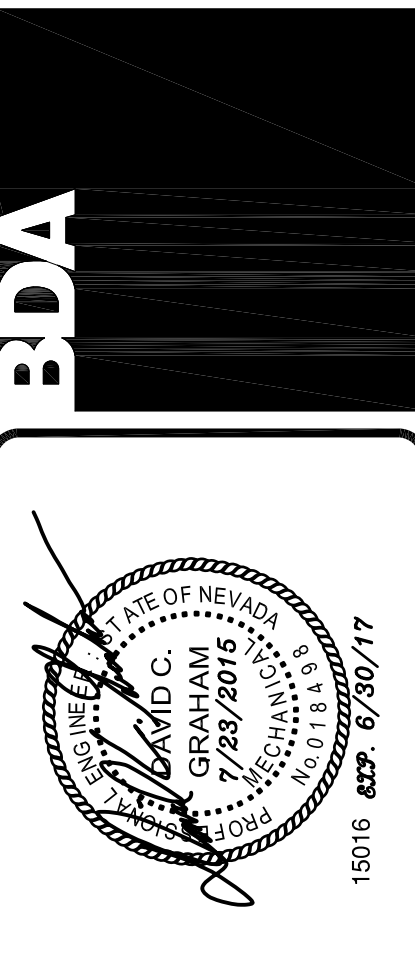
- NOTES:
1. UNITS ARE SELECTED AT AN ELEVATION OF 4,500 FT ABOVE SEA LEVEL.
2. PROVIDE UNITS WITH ASPEN PAD MEDIA.
3. ELECTRICAL CONTRACTOR TO PROVIDE ON/OFF/HI/LOW FAN SWITCH AND A PUMP ON/OFF SWITCH.
4. PROVIDE ALL SERVICE AND OPERATIONAL CLEARANCES AS REQUIRED, INCLUDING ALL CLEARANCES REQUIRED BY NEC ARTICLE 110.
5. PROVIDE WITH FLOAT AND OVER FLOW CONNECTIONS.

- GENERAL MECHANICAL NOTES
- ALL DUCT SIZES SHOWN ARE INSIDE FREE AREA DIMENSIONS. INSTALL WORK AS HIGH AS POSSIBLE AND CAREFULLY COORDINATE ALL WORK WITH STRUCTURAL, ELECTRICAL, PLUMBING, ETC.
 - ALL FLEXIBLE DUCT SHALL BE FULLY EXTENDED AND SUPPORTED, FREE OF KINKS, NO LONGER THAN 5'-0" AND SAME SIZE AS DIFFUSER NECK. USE RIGID ELBOW AT CONNECTION TO DIFFUSER.
 - PROVIDE FLEXIBLE CONNECTIONS AT ALL EXHAUST FANS AND ANY OTHER EQUIPMENT WITH VIBRATION-PRODUCING COMPONENTS.
 - ALL DIFFUSERS AND GRILLES SMALLER THAN THE CEILING T-BAR SPACING SHALL BE INDEPENDENTLY SUPPORTED FROM THE STRUCTURE ABOVE WITH CEILING TIE WIRES AND SHALL HAVE CONCEALED FASTENERS.
 - ALL EXHAUST TERMINATIONS, FLUES, AND PLUMBING VENTS SHALL BE LOCATED AT LEAST 10'-0" FROM ANY OUTSIDE AIR INTAKES.
 - ALL LOW VOLTAGE CONTROL WIRING SHALL BE PROVIDED AND INSTALLED BY MECHANICAL DIVISION UNLESS NOTED OTHERWISE.
 - LOCATION OF THERMOSTATS AND ACCESS DOORS SHALL BE VERIFIED WITH ARCHITECT BEFORE INSTALLATION.
 - LINE TRANSFER DUCTS WITH 1" INTERNAL INSULATION WHERE NOTED ON PLANS. ALL DUCTWORK OUTSIDE OF INSULATED ENVELOPE, INCLUDING SUPPLY, RETURN, EXHAUST, AND TRANSFER DUCTS, SHALL BE WRAPPED WITH MINIMUM R-11 EXTERNAL INSULATION, WITH VAPOR RETARDER WITH ALL JOINTS SEALED. ALL OTHER DUCTWORK SHALL BE WRAPPED WITH MINIMUM R-5 EXTERNAL INSULATION. ALL INSULATION SHALL MEET LOCAL ENERGY CODE REQUIREMENTS. (NOTE: FLUES AND VENTS, WHETHER WITHIN OR OUTSIDE OF INSULATED ENVELOPE, SHALL BE UNINSULATED)
 - COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF WALL CAP WITH ARCHITECT BEFORE INSTALLATION.
 - PROVIDE INLET AND OUTLET TRANSITIONS AS REQUIRED AT EACH EXHAUST FAN, WALL CAP, ROOF CAP, AIR DISTRIBUTION DEVICE, ETC.
 - CLEAR SPACE ALLOWANCE FOR ALL DUCTWORK IS VERY MINIMAL AND WILL REQUIRE CAREFUL COORDINATION WITH OTHER TRADES. VERIFY ALL DIMENSIONS BOTH ON THE DRAWINGS AND ON SITE BEFORE LAYING OUT, CUTTING, AND FABRICATING THE WORK. MECHANICAL DIVISION SHALL BE RESPONSIBLE FOR ALL SHEET METAL WORK THAT IS CUT AND FABRICATED FROM THE CONTRACT DRAWINGS WITHOUT DIMENSIONAL VERIFICATION. MECHANICAL DIVISION SHALL ALSO BE RESPONSIBLE FOR ALL DUCT AND PIPE OFFSETS REQUIRED TO AVOID STRUCTURAL ELEMENTS, CHANGES IN CEILING HEIGHTS, AND ALL WORK BY OTHER TRADES.
 - PROVIDE ALL EQUIPMENT WITH ALL REQUIRED SERVICE AND OPERATIONAL CLEARANCES, INCLUDING ALL REQUIRED CLEARANCES TO COMBUSTIBLES (WHERE APPLICABLE) AND ALL CLEARANCES REQUIRED BY NEC ARTICLE 110.
 - COORDINATE WORK WITH OTHER TRADES TO MINIMIZE CONFLICTS AND "DOWN TIME".
 - ALL EQUIPMENT CAPACITIES ARE SCHEDULED AT SEA LEVEL.
 - ALL WORK SHALL COMPLY WITH ALL LOCAL AND NATIONAL CODES.
 - MECHANICAL DIVISION SHALL KEEP UPDATED AS-BUILT DRAWINGS ON SITE FOR REVIEW DURING CONSTRUCTION. PROVIDE AS-BUILT DRAWINGS TO OWNER AFTER CONSTRUCTION HAS BEEN COMPLETED.
 - CONSTRUCT LOW VELOCITY/LOW PRESSURE DUCT WORK AS SPECIFIED IN THE CURRENT SMACNA HVAC CONSTRUCTION STANDARDS, FOR 2" wg PRESSURE CLASSES.
 - ALL DUCT ROUTING IS SHOWN IN APPROXIMATE LOCATIONS. ALL EQUIPMENT LOCATIONS SHOWN ARE APPROXIMATE. MECHANICAL DIVISION SHALL COORDINATE ROUTING OF DUCTWORK AND LOCATION OF EQUIPMENT WITH ALL OTHER TRADES TO ENSURE PROPER INSTALLATION AND TO AVOID CONFLICTS.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND FINISHING SURFACES (WALLS, FLOORS, CEILING) DAMAGED DURING REMOVAL OF EQUIPMENT UNLESS REMOVAL OR RENOVATION OF SURFACE IS COVERED UNDER ANOTHER SECTION OF THIS CONTRACT.
 - DUCT ROUTING IS APPROXIMATE ONLY. EACH BIDDER SHALL SATISFY HIMSELF AS TO EXISTING BUILDING CONDITIONS BEFORE SUBMITTING HIS BID. NO ALLOWANCE SHALL BE MADE AFTER CONTRACT IS AWARDED TO ALLOW FOR LACK OF PRE-BID INSPECTION OF BUILDING BY SUCCESSFUL BIDDER.
 - CONTROLS PRICE SHALL BE INCLUDED IN MECHANICAL DIVISION PRICE.



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MECHANICAL SCHEDULES		REV.#	DATE	COMMENTS

REVIEWS	
INITIALS	BDA DSGN. REV.
	BDA TECH. REV.

CCAS
PROJECT NO.: 1107
DRAWN: MAR/CMB
DATE: 7/23/2015

M601
OF

AIR COOLED CONDENSING UNIT SCHEDULE

MARK	SERVES	TOTAL COOLING CAPACITY (BTUH)	OUTSIDE AIR TEMP °F	EER	ELECTRICAL DATA				APPROX. WT. (LBS.)	MANUFACTURER AND MODEL #
					VOLT/PHASE	FAN MOTOR	MCA	MOCP		
CU-1	AC-1	21,500	95	12.5	208/1	0.4 FLA	17.5	20	178	DAIKIN RXS24LVJU

GENERAL: MITSUBISHI AND LG ARE CONSIDERED EQUIVALENT UNITS

- NOTES:
- SIZE AND INSTALL REFRIGERANT PIPING BETWEEN CONDENSING UNITS AND ASSOCIATED AIR CONDITIONING UNITS ACCORDING TO MANUFACTURER'S REQUIREMENTS. PIPING SHALL NOT EXCEED BY MANUFACTURER.
 - ACCESSORIES: HIGH AND LOW AMBIENT CONTROLS, WINTER START CONTROL, WIND BAFFLES, TIME DELAY RELAY, CYCLE PROTECTOR, TXV, LOW AND HIGH PRESSURE SWITCHES.
 - PROVIDE CRANKCASE HEATER AND/OR FILTER DRIER IF RECOMMENDED BY MANUFACTURER.
 - ALL CONDENSING UNIT CONTROL WIRING SHALL BE PROVIDED AND INSTALLED BY MECHANICAL DIVISION.
 - EER RATING LISTED IS FOR CONDENSING UNIT PAIRED WITH ASSOCIATED AIR CONDITIONING OR AIR HANDLING UNIT.
 - PROVIDE ALL SERVICE AND OPERATIONAL CLEARANCES AS REQUIRED, INCLUDING ALL CLEARANCES REQUIRED BY NEC ARTICLE 110.
 - LOW AMBIENT CONTROLS DOWN TO ZERO DEGREES F.
 - FURNISH 7 YEAR COMPRESSOR AND 1 YEAR PARTS AND SERVICE WARRANTY

DUCTLESS SPLIT INDOOR AC UNIT SCHEDULE

MARK	SERVES	MAX. CFM	ENT. DB/WB (°F)	TOTAL COOLING CAPACITY (BTUH)	SENSIBLE COOLING CAPACITY (BTUH)	ELECTRICAL DATA		APPROX. WT. (LBS.)	MANUFACTURER AND MODEL #
						VOLT/PHASE	MCA		
AC-1	TELECOM 104	640	80/67	21,500	19,000	208/1	0.57	46	DAIKIN FTXS24LVJU

- NOTES:
- PROVIDE ALL SERVICE AND OPERATIONAL CLEARANCES AS REQUIRED, INCLUDING ALL CLEARANCES REQUIRED BY NEC ARTICLE 110.
 - ELECTRICAL CONTRACTOR SHALL EXTEND LINE VOLTAGE ELECTRICAL SERVICE TO AC UNIT FROM CONDENSING UNIT. INDOOR AC UNIT POWERED THRU OUTDOOR UNIT.

- ACCESSORIES:
- WALL MOUNTED ELECTRONIC PROGRAMMABLE THERMOSTAT.
 - CLEANABLE FACTORY FILTERS.
 - CONDENSATE PUMP.

ELECTRIC BASEBOARD HEATER SCHEDULE

MARK	SERVICE	POWER SUPPLY	LENGTH	WATTS	BTU/HR.	MANUFACTURER AND MODEL #	REMARKS
EBH-1	VESTIBULE 101	120V/1Ø	3'-0"	750	2,560	BERKO BKOC2513W	PROVIDE INTEGRAL, TAMPER-PROOF THERMOSTAT. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
EBH-2	VESTIBULE 101	120V/1Ø	3'-0"	750	2,560	BERKO BKOC2513W	PROVIDE INTEGRAL, TAMPER-PROOF THERMOSTAT. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

Tags	Model Number	Nominal Size (Ton)	Design Airflow (cfm)	Outside Air (cfm)	Design ESP (in)	Gross Total Capacity (MBH)	Gross Sensible Capacity (MBH)	Cooling Entering DB (F)	Cooling Leaving Unit DB (F)	Cooling Leaving Unit WB (F)	Ambient Temp (F)	Reheat Capacity (MBH)	Cooling LDB with reheat (F)	Input Heating Capacity (MBH)	Output Heating Capacity @ 4500 ft (MBH)	Heating EAT (F)	Heating LAT (F)	VHz/Ph	MCA	MOP	SEER /EER	Unit Operating Weight (lbs)	Elevation (ft)
RTU-1	OADD096A	7.5	3000	2000	0.5	100.3	100.3	90	65	55.7	95	39.4	67.8	300	192	15	86.1	208/60/3	59.8	70	11.2	2100	4500
RTU-2	YHC060E	5	2200	550	0.5	61.24	45.01	80	65	59.77	95	40.43	74.3	130	85	50	94	208/60/3	27.4	40	14.2	950	4500
RTU-3	OADD072A	6	2000	1500	0.5	66	66	90	65	52.4	95	51.9	80.1	200	128	15	86.1	208/60/3	36.4	50	11	2000	4500
RTU-4	YHC060E	5	2500	550	0.5	61.24	45.01	80	65	59.77	95	40.43	74.3	130	85	50	94	208/60/3	27.4	40	14.2	950	4500

- NOTES:
- ROOFTOP UNIT INDOOR FANS SHALL BE STANDARD MOTOR AND DRIVE WITH BELT DRIVE AND SHALL RUN CONTINUOUSLY DURING BUILDING OPERATION.
 - EXTERNAL STATIC PRESSURE DOES NOT INCLUDE ANY PRESSURE DROP ASSOCIATED WITH ROOFTOP UNIT ACCESSORIES.
 - PROVIDE ALL SERVICE AND OPERATIONAL CLEARANCES AS REQUIRED, INCLUDING ALL CLEARANCES REQUIRED BY NEC ARTICLE 110.
 - SET MINIMUM OUTSIDE AIR AS SPECIFIED ABOVE. OUTSIDE AIR DAMPER SHALL FULLY CLOSE ON UNIT SHUTDOWN.
 - SMOKE DETECTORS SHALL BE INSTALLED IN SUPPLY AND RETURN SIDES OF RTU-1 THRU RTU-4 BY MECHANICAL DIVISION. DETECTORS TO BE PROVIDED BY ELECTRICAL DIVISION, WIRED TO BUILDING FIRE ALARM SYSTEM BY ELECTRICAL DIVISION, AND WIRED TO UNIT BY ELECTRICAL DIVISION TO SHUT UNIT DOWN UPON SENSING SMOKE. COORDINATE INSTALLATION IN UNIT WITH UNIT MANUFACTURER.
 - PROVIDE ALL UNITS WITH STAINLESS STEEL HEAT EXCHANGER
 - PROVIDE ALL UNITS WITH DRY BULB ECONOMIZER
 - PROVIDE ALL UNITS WITH HIGH ALTITUDE KIT

- ACCESSORIES:
- 14" HIGH FACTORY-FABRICATED MICROMETL INSULATED ROOF CURB, SLOPED TO MATCH PITCH OF ROOF TO ALLOW UNIT TO SIT LEVEL
 - MICROMETL ECONOMIZER WITH FULLY MODULATING CENTRIFUGAL POWER EXHAUST, FACTORY-WIRED TO ALLOW SINGLE-POINT POWER CONNECTION TO ROOFTOP UNIT. MCA/MOCP LISTED IN SCHEDULE DOES NOT INCLUDE POWER EXHAUST ELECTRICAL LOAD. PROVIDE WITH DUCT PRESSURE SENSOR.
 - COMPRESSOR SHORT CYCLE PROTECTION.
 - ELECTRONIC PROGRAMMABLE THERMIDISTAT (COMBINATION THERMOSTAT/HUMIDISTAT) WITH AUTO HEAT/COOL SWITCHOVER, HUMIDITY SENSOR, HUMIDIFIER CONTROL, AND KEYPAD LOCKOUT CAPABILITY. ALL CONTROL WIRING SHALL BE PROVIDED AND INSTALLED BY MECHANICAL DIVISION.
 - 2" 30% EFFICIENT FILTERS EQUAL TO FARR 30/30. (2 SETS)
 - CONDENSER COIL GUARD ASSEMBLY
 - HUMIDIFIER DEHUMIDIFICATION/SUB-COOLING SYSTEM.

DUCT FURNACE SCHEDULE

MARK	SERVICE	CFM	SP (IN WC)	POWER SUPPLY	FLA	HEATING DATA		EFFICIENCY	WEIGHT (LBS)	MANUFACTURER AND MODEL #
						S/L INPUT (MBH)	SITE OUTPUT (MBH)			
DH-1	EC-1	1,340	0.2	115V/1Ø	1.9	150	98.4	80%	260	MODINE HFP-150
DH-2	EC-2	1,340	0.2	115V/1Ø	1.9	150	98.4	80%	260	MODINE HFP-150
DH-3	NOT USED									
DH-4	EC-4	1,340	0.2	115V/1Ø	1.9	150	98.4	80%	260	MODINE HFP-150

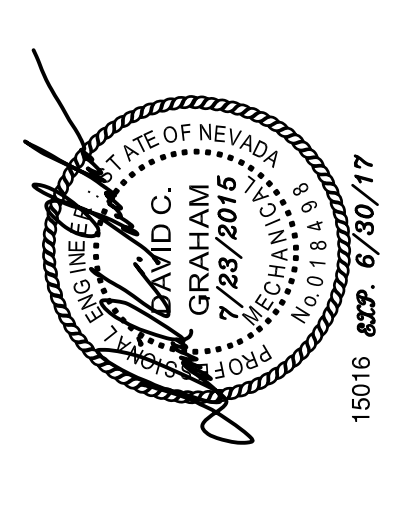
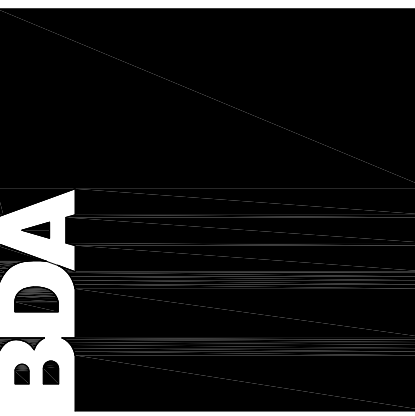
- NOTES:
- INSTALL UNITS ON THY CURBS. INSTALL PER MANUFACTURER'S REQUIREMENTS. PROVIDE DUCT TRANSITIONS AS REQUIRED.
 - PROVIDE ALL REQUIRED SERVICE AND OPERATIONAL CLEARANCES, INCLUDING ALL REQUIRED CLEARANCES TO COMBUSTIBLES AND ALL CLEARANCES REQUIRED BY NEC ARTICLE 110.
 - PROVIDE ALL CONTROL WIRING BETWEEN DUCT FURNACES AND ASSOCIATED CONTROL COMPONENTS (THERMOSTATS, HUMIDISTATS, SENSORS, ETC.) CONTROLS SHALL BE THE RESPONSIBILITY OF MECHANICAL CONTRACTOR. MECHANICAL CONTRACTOR SHALL PROVIDE A COMPLETE INSTALLATION INCLUDING ALL REQUIRED COMPONENTS NECESSARY TO ACHIEVE AN OPERATIONAL SYSTEM.

- ACCESSORIES:
- ELECTRONIC SPARK IGNITED SAFETY PILOT.
 - ELECTRONIC GAS MODULATION (20%-100%)
 - CONTROL RELAYS AS REQUIRED TO ALLOW HEATING CONTROL BY THERMOSTAT.
 - TWO SEPARATELY ADJUSTABLE DISCHARGE TEMPERATURE SENSORS.
 - 24-VOLT TRANSFORMER
 - COMBUSTION AIRVENT RAIN HOODS.
 - DRAIN FLANGE, STAINLESS STEEL HEAT EXCHANGER, AND STAINLESS STEEL BURNERS.



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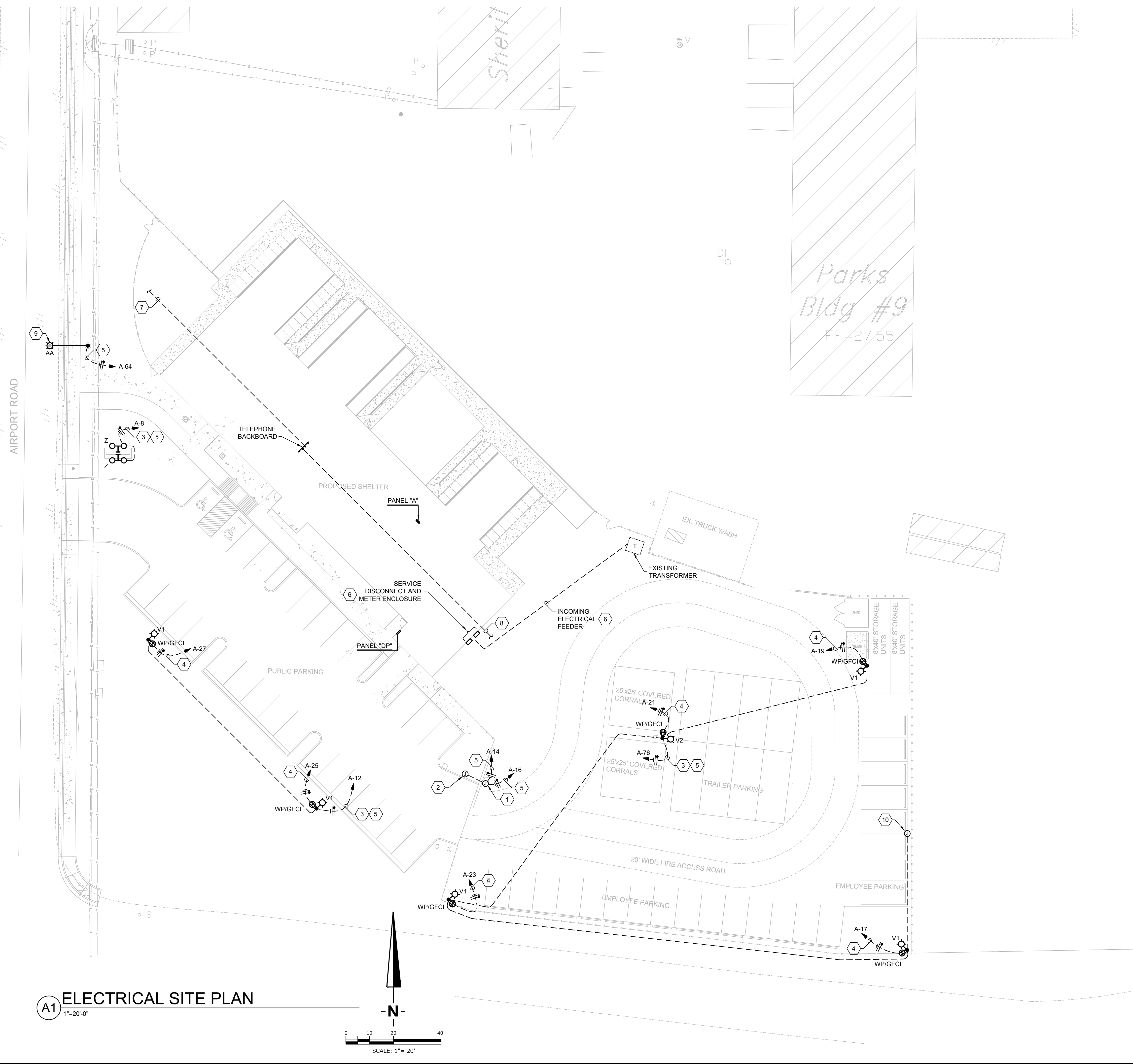
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REVISION:				
REVISION:				

REVIEWS	
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	BDA TECH. REV.

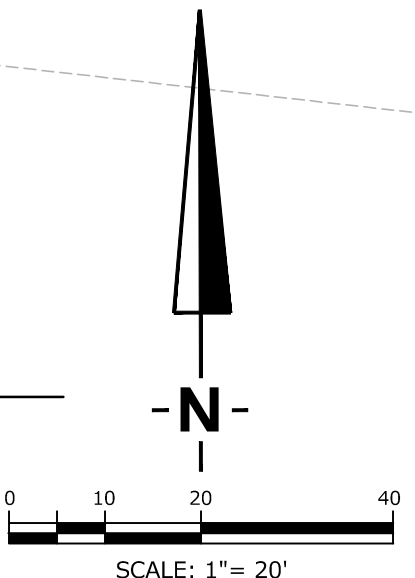
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PROJECT NO.: 1107
DRAWN: MAR/CMB
DATE: 7/23/2015

M602
OF

Save Date: July 23, 2015 - 5:03 PM - Rick
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 Drawing Name: 15016 Carson City Animal Services\15016 CADD\Construct\Electrical\15016 - ES101 - Electrical Site Plan - VE.dwg



A1 ELECTRICAL SITE PLAN
1"=20'-0"



PROJECT GENERAL NOTES

REQUIREMENTS

Installation, materials, equipment and workmanship shall conform to the applicable provisions of the NFPA, the National Electrical Code (NEC), the National Electrical Safety Code (NESC) and the terms and conditions of the Electrical Utility and other authorities having lawful jurisdiction pertaining to the work required. All modifications required by these codes, rules, regulations and authorities shall be made by the Contractor without additional cost.

Conflicting code requirements shall be brought to the attention of the Architect. Where two or more codes apply, the most stringent of the codes shall govern.

EQUIPMENT REQUIREMENTS

The Electrical requirements for equipment specified or indicated on the Drawings are based on information available at the time of design. If equipment furnished for installation has Electrical requirements other than indicated on the Electrical Drawings, the Contractor shall make all adjustments to wire and conduit size, controls, disconnecting means, overcurrent protection and installation as required to accommodate the equipment supplied, without additional cost to the Owner. All adjustments to the Drawings reflecting the Electrical System shall be delineated in a submittal to the Architect immediately upon knowledge of the required adjustments. The complete responsibility and costs for such adjustments shall be assigned to the respective section of these Specifications in which the equipment is furnished.

PROJECT EXECUTION

Fabrication, erection and installation of the complete Electrical System shall be done in a first class workmanlike manner by qualified personnel experienced in such work and shall proceed in an orderly manner so as not to hold up the progress of the project. The Contractor shall check all areas and surface where Electrical equipment or material is to be installed, removed or relocated and report any unsatisfactory conditions before starting work. Commencement of work signifies this Contractor's acceptance of the prevailing conditions.

UTILITY REQUIREMENTS

The Drawings reflect requirements of the serving utilities based on information derived from representatives of the utilities. During the project design phase, the fact that the Architect may undertake to show the utility(s) requirements, does not necessarily indicate that the Architect represents the utilities or their requirements; therefore, within 10 working days after Contract Award and/or Notice to Proceed has been issued, the Contractor shall be responsible for coordinating the requirements of the utilities for the Power System. The Owner shall be responsible for coordinating the requirements for the Telephone and Television Systems.

Any deviations from the documents shall be brought to the attention of the Architect no later than 10 working days after Award of Contract and/or Notice to Proceed. Failure to notify the Architect within the 10-day time frame signifies the acceptance of documents and utility requirements by the Contractor and all associated costs therein.

DRAWINGS

The Electrical Drawings show the general arrangement of all conduit, equipment, etc. and shall be followed as closely as actual building construction and the work of other trades will permit. The Architectural and Structural Drawings shall be considered as a part of the work insofar as these Drawings furnish the Contractor with information relating to the design and construction of the building. Architectural Drawings shall take precedence over Electrical Drawings. The Contractor shall investigate the structural and finish conditions affecting the work and shall arrange his work accordingly, providing such fittings, elbows, pullboxes and accessories as may be required to meet such conditions.

The Contractor shall verify the dimensions governing the Electrical work at the building. No extra compensation shall be claimed or allowed on account of differences between actual dimensions and those indicated on the Drawings.

The approximate locations of cabinets, panelboards, wiring gutters, switches, light outlets, power outlets, etc., as indicated on the Drawings; however, the exact location shall be determined after thoroughly examining the general building plans and by actual measurements during construction to avoid conflicts with any Structural, Architectural, or other trades, with all locations subject to the approval of the Architect.

Verify with the Architect all locations of conduit, boxes, etc., stubbed in the floor prior to installation.

KEYED NOTES

- JUNCTION BOX FOR POWER CONNECTION TO AUTOMATIC GATE. COORDINATE MOUNTING REQUIREMENTS WITH EQUIPMENT SUPPLIER, AND LOCATION WITH ARCHITECT PRIOR ROUGH-IN.
- JUNCTION BOX FOR PROXIMITY CARD READER. COORDINATE MOUNTING REQUIREMENTS WITH EQUIPMENT SUPPLIER AND ARCHITECT PRIOR TO ROUGH-IN. EXTEND 1" CONDUIT WITH PULLWIRE TO AUTOMATIC GATE CONTROLLER.
- EXTEND CIRCUIT THROUGH TIME CLOCK/PHOTO-CELL CONTROLLER AND THEN TO PANEL. INITIATED. REFER TO DETAIL ON SHEET E202.
- UTILIZE #8 CONDUCTORS THROUGHOUT CIRCUIT.
- UTILIZE #10 CONDUCTORS THROUGHOUT CIRCUIT.
- REFER TO POWER RISER DIAGRAM ON SHEET E201 FOR ADDITIONAL INFORMATION.
- (2) 4" CONDUITS, EXISTING, PROVIDE PULLWIRE & EXTEND TO SERVICE LOCATION. (1) CONDUIT FOR AT&T, (1) CONDUIT FOR CHARTER COMMUNICATIONS. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
- (2) 2" CONDUITS WITH PULLWIRE FOR INCOMING COMMUNICATIONS SERVICE - (1) CONDUIT FOR FIBER OPTIC AND (1) CONDUIT FOR SPARE. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
- LOCATION OF RELOCATED LIGHT POLE AND FIXTURE. COORDINATE RELOCATION WITH THE CITY OF CARSON CITY.
- PROVIDE AND INSTALL A JUNCTION BOX FLUSH IN-GRADE FOR FUTURE USE. EXTEND 3/4" CONDUIT WITH PULLWIRE FROM LIGHT POLE TO JUNCTION BOX LOCATION.

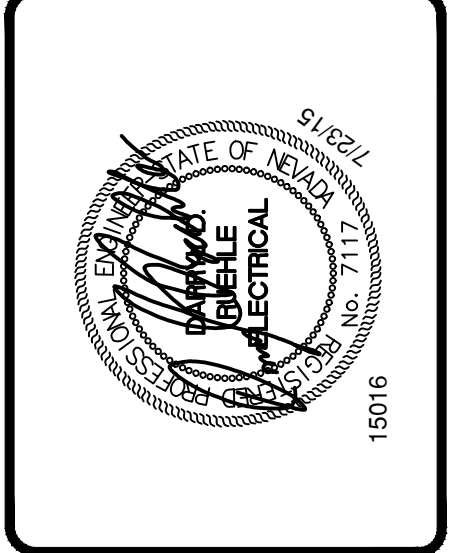
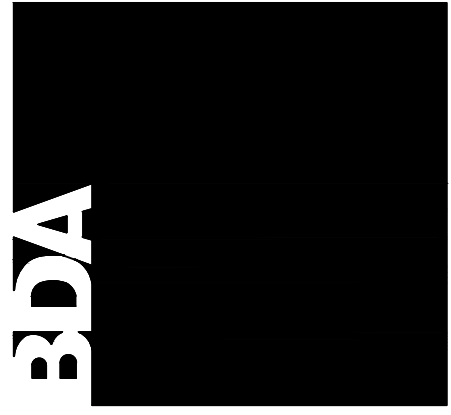
WARNING

IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY. AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE UTILITY OR PIPELINE COMPANY, THE OWNER OR BY OTHERS, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES.

THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFORE. THE CONTRACTOR SHALL INFORM ITSELF TO THE LOCATION OF ANY UTILITY LINE, PIPELINE OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE OF ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES, AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES IN PLANNING AND CONDUCTING EXCAVATION, WHETHER BY CALLING OR NOTIFYING THE UTILITIES, COMPLYING WITH "NM ONE CALL" PROCEDURES, OR OTHERWISE.



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ELECTRICAL SITE PLAN

REV.#	DATE	COMMENTS

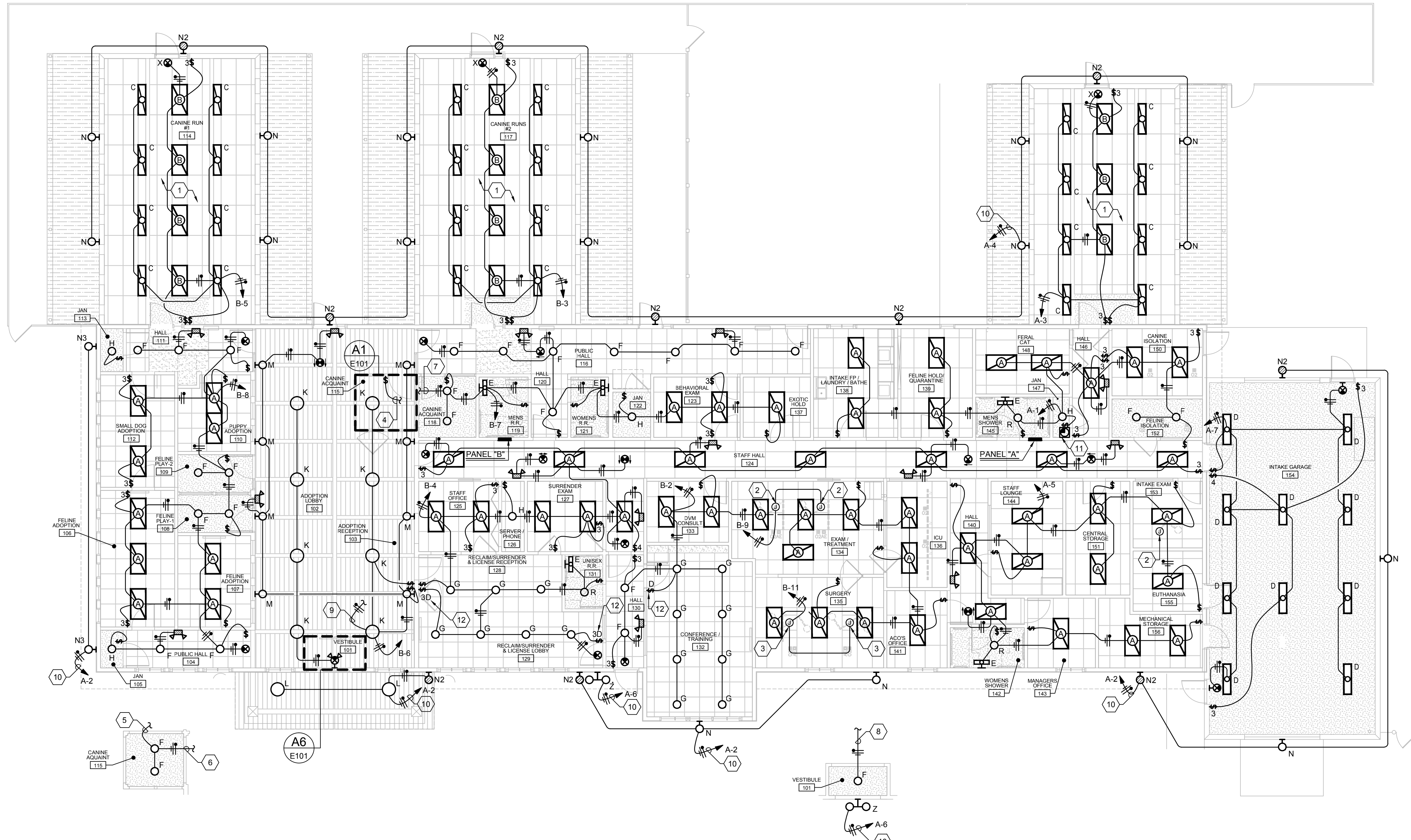
REVIEWS

INITIALS	BDA DSGN. REV.	BDA TECH REV.

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 PROJECT NO.: 1107
 DRAWN: RP / RW / JKD
 DATE: 7/23/2015
ES101
 OF

KEYED NOTES

- ALL LIGHT FIXTURES AND ELECTRICAL DEVICES LOCATED IN ROOM SHALL BE WEATHER-PROOF OR WET LISTED.
- JUNCTION BOX FOR CONNECTION OF CEILING MOUNTED EXAM LIGHT. VERIFY EXACT LOCATION.
- JUNCTION BOX FOR CONNECTION OF CEILING MOUNTED SURGICAL LIGHT. VERIFY EXACT LOCATION.
- EXTEND TO FIXTURE TYPE "F". REFER TO DETAIL A1/E101 FOR CONTINUATION.
- EXTEND TO LIGHT SWITCH IN ROOM.
- EXTEND LIGHTING CIRCUIT TO "CANINE ACQUAINT 121".
- EXTEND LIGHTING CIRCUIT TO "CANINE ACQUAINT 118." REFER TO DETAIL A1/E101 FOR CONTINUATION.
- EXTEND LIGHTING CIRCUIT TO FIXTURE TYPE "K" LOCATED IN "ADOPTION LOBBY 107."
- EXTEND LIGHTING CIRCUIT TO FIXTURE TYPE "F" IN "VESTIBULE 101." REFER TO DETAIL A6/E101 FOR CONTINUATION.
- EXTEND CIRCUIT THROUGH TIME CLOCK / PHOTO-CELL CONTROLLER AND THEN TO PANEL INDICATED. REFER TO DETAIL ON SHEET E202.
- TIME CLOCK / PHOTO-CELL CONTROLLER. REFER TO DETAIL ON SHEET E202.
- PROVIDE AND INSTALL A DIMMER SWITCH, 0-10V, SLIDE TO OFF. DIMMER SWITCH SHALL BE EQUAL TO LUTRON.



A1 PARTIAL LTG PLAN
1/8" = 1'-0"
CANINE ACQUAINT [115]

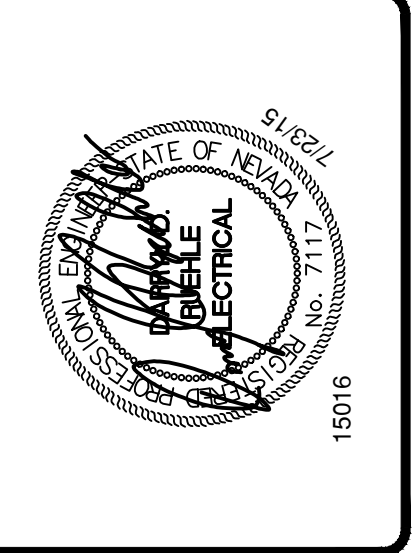
A3 LIGHTING PLAN
1/8" = 1'-0"

A6 PARTIAL LTG PLAN
1/8" = 1'-0"
VESTIBULE [101]



Date: July 23, 2015 - 4:44 PM - Rick
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 Drawing Number:

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LIGHTING PLAN		
REV.#	DATE	COMMENTS

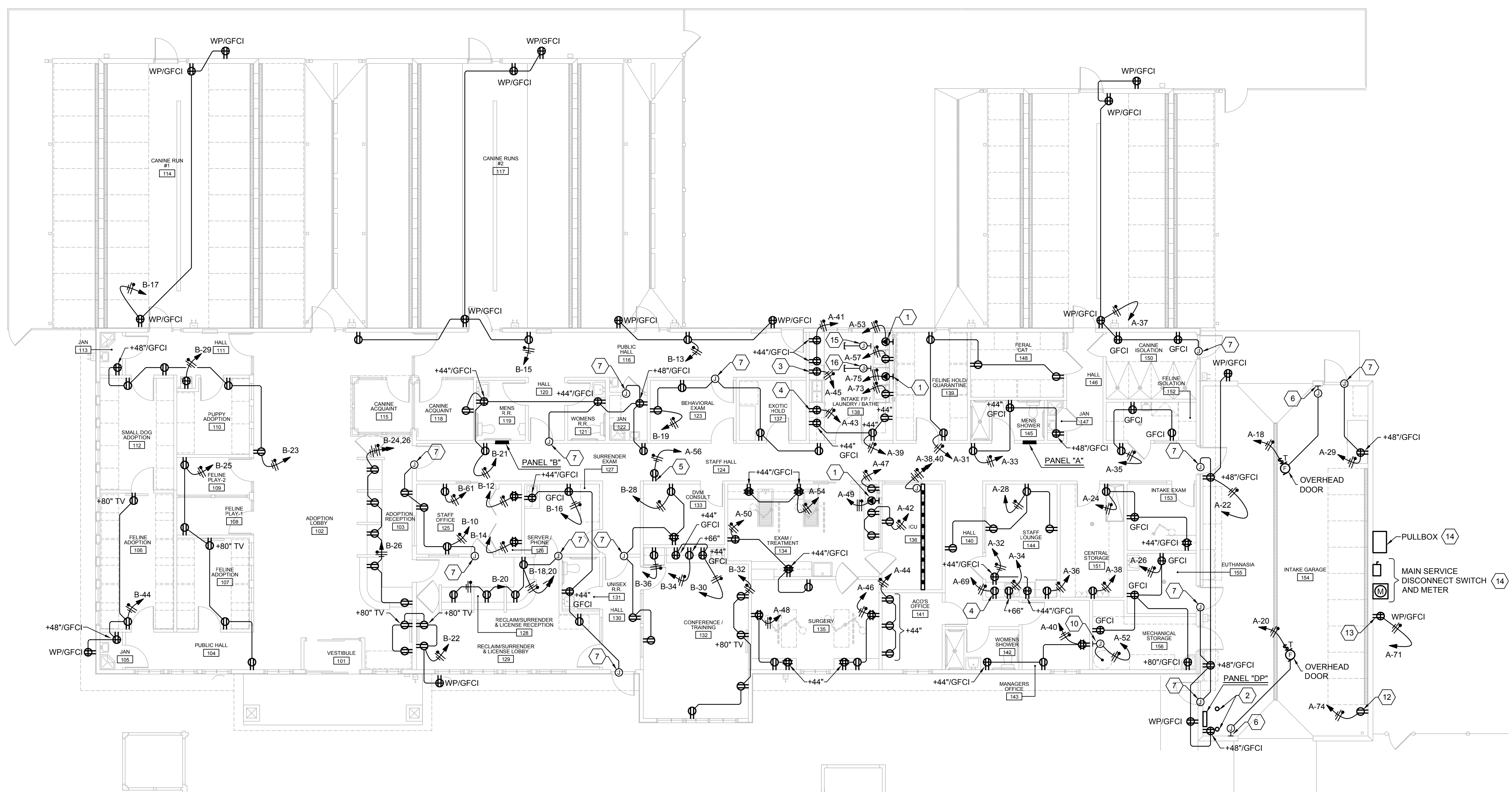
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INITIALS	REVISION
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 DATE: 7/23/2015
E101
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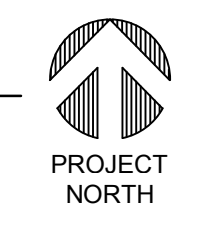
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 Drawing Name:

KEYED NOTES

1. 240V-30A-2P-3W DRYER OUTLET. USE #10 CONDUCTORS THROUGHOUT CIRCUIT.
2. PROVIDE AND INSTALL CONCRETE FILLED BOLLARDS FOR PROTECTION OF PANELBOARD.
3. RECEPTACLE FOR UNDER COUNTER REFRIGERATOR. VERIFY EXACT LOCATION.
4. RECEPTACLE FOR DISHWASHER. VERIFY EXACT LOCATION.
5. RECEPTACLE FOR MEDICAL GAS BUZZER. VERIFY EXACT LOCATION.
6. JUNCTION BOX FOR DOOR CONTROLLER. MOUNT AT 48" A.F.F. EXTEND 3/4" CONDUIT WITH REQUIRED CONTROL CONDUCTORS UP TO DOOR CONTROLLER.
7. JUNCTION BOX FOR ACCESS CONTROL SYSTEM. VERIFY BOX LOCATION AND EXTEND CAT 6 CABLE TO SERVER ROOM 127 AND TERMINATE AS DIRECTED BY MANUFACTURER. REFER TO ARCHITECTURAL DOOR SCHEDULE FOR ACCESS REQUIREMENTS.
8. NOT USED.
9. NOT USED.
10. JUNCTION BOX FOR POWER CONNECTION TO WATER HEATER.
11. NOT USED.
12. RECEPTACLE FOR POWER CONNECTION TO FIRE ALARM GONG. VERIFY EXACT LOCATION.
13. RECEPTACLE FOR CONNECTION OF IRRIGATION CONTROLLER. VERIFY EXACT LOCATION.
14. REFER TO POWER RISER DIAGRAM FOR ADDITIONAL INFORMATION.
15. JUNCTION BOX FOR FUTURE STACKABLE CLOTHES DRYER. MOUNT AT +72" A.F.F. EXTEND 3/4" CONDUIT WITH PULLWIRE UP INTO ACCESSIBLE CEILING SPACE.
16. JUNCTION BOX FOR FUTURE STACKABLE CLOTHES WASHER. MOUNT AT +72" A.F.F. EXTEND 3/4" CONDUIT WITH PULLWIRE UP INTO ACCESSIBLE CEILING SPACE.



A1 RECEPTACLE PLAN
1/8"=1'-0"



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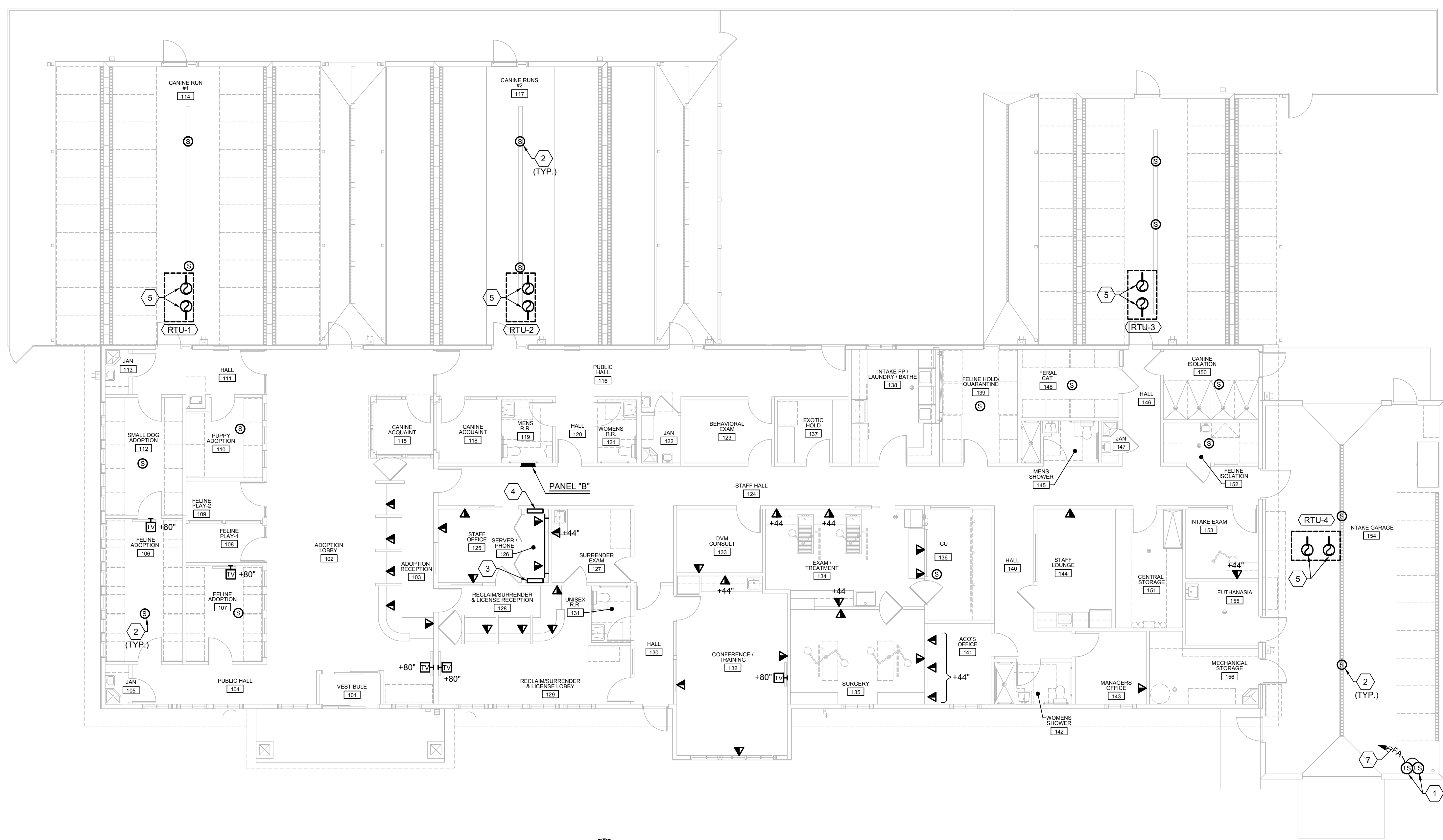
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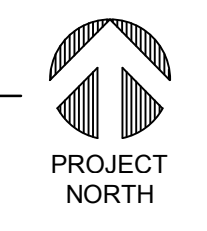
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 Drawing Name: Carson City Animal Services

KEYED NOTES

1. CONNECTION OF FIRE ALARM TAMPER AND FLOW SWITCHES TO THE DESIGN-BUILD FIRE ALARM SYSTEM, BY OTHERS.
2. FLUSH 8" CEILING MOUNTED SPEAKER WITH BACKBOX CAPABLE OF INSTALLING IN DRYWALL, PLASTER OR SUSPENDED LAY-IN CEILING, WITH ALL COMPONENTS, DRIVER, TRANSFORMERS, ETC. FOR A COMPLETE WORKABLE SYSTEM. EXTEND WIRING BACK TO ROOM 127 AND TERMINATE IN A TERMINAL CABINET. REFER TO ARCHITECTURAL RCP FOR EXACT LOCATION.
3. SOUND SYSTEM TERMINAL CABINET. PROVIDE POWER RECEPTACLE AS REQUIRED BY SYSTEM MANUFACTURER.
4. TERMINAL CABINET FOR TERMINATION OF CABLES ASSOCIATED WITH ACCESS CONTROL SYSTEM. PROVIDE POWER RECEPTACLE AS REQUIRED BY SYSTEM MANUFACTURER.
5. MECHANICAL UNIT REQUIRES A PHOTOELECTRIC TYPE DUCT DETECTOR IN BOTH THE SUPPLY AND RETURN DUCTS. DETECTOR SHALL BE PROVIDED BY DESIGN-BUILD CONTRACTOR. INSTALLED BY MECHANICAL CONTRACTOR, AND WIRED INTO THE FIRE ALARM SYSTEM BY THE DESIGN-BUILD CONTRACTOR. DETECTOR SHALL BE SUPPLIED WITH ANY AND ALL REQUIRED CONTROL RELAY(S) OR CONTACT(S) IN ORDER TO AUTOMATICALLY TURN-OFF THE MECHANICAL UNIT UPON RECEIPT OF ALARM SIGNAL FROM EITHER DUCT SMOKE DETECTOR. PROVIDE NEW CONDUIT AND CONTROL WIRING AS REQUIRED FOR CONNECTION TO DESIGN-BUILD FIRE ALARM SYSTEM.
6. NOT USED.
7. CONNECTION TO THE DESIGN-BUILD FIRE ALARM SYSTEM BY OTHERS.

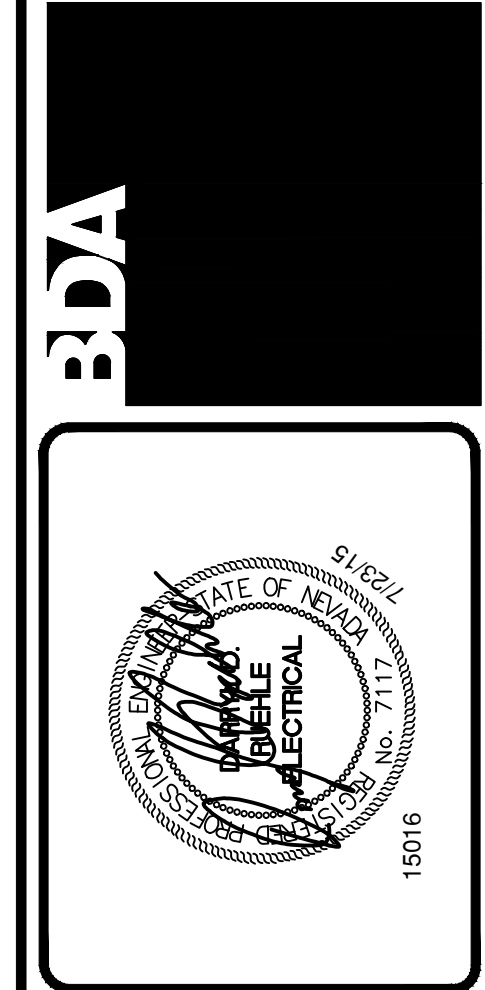


A1 SPECIAL SYSTEMS PLAN
 1/8"=1'-0"



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SPECIAL SYSTEMS PLAN

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1	7/23/15	VE CHANGES

REVIEWS

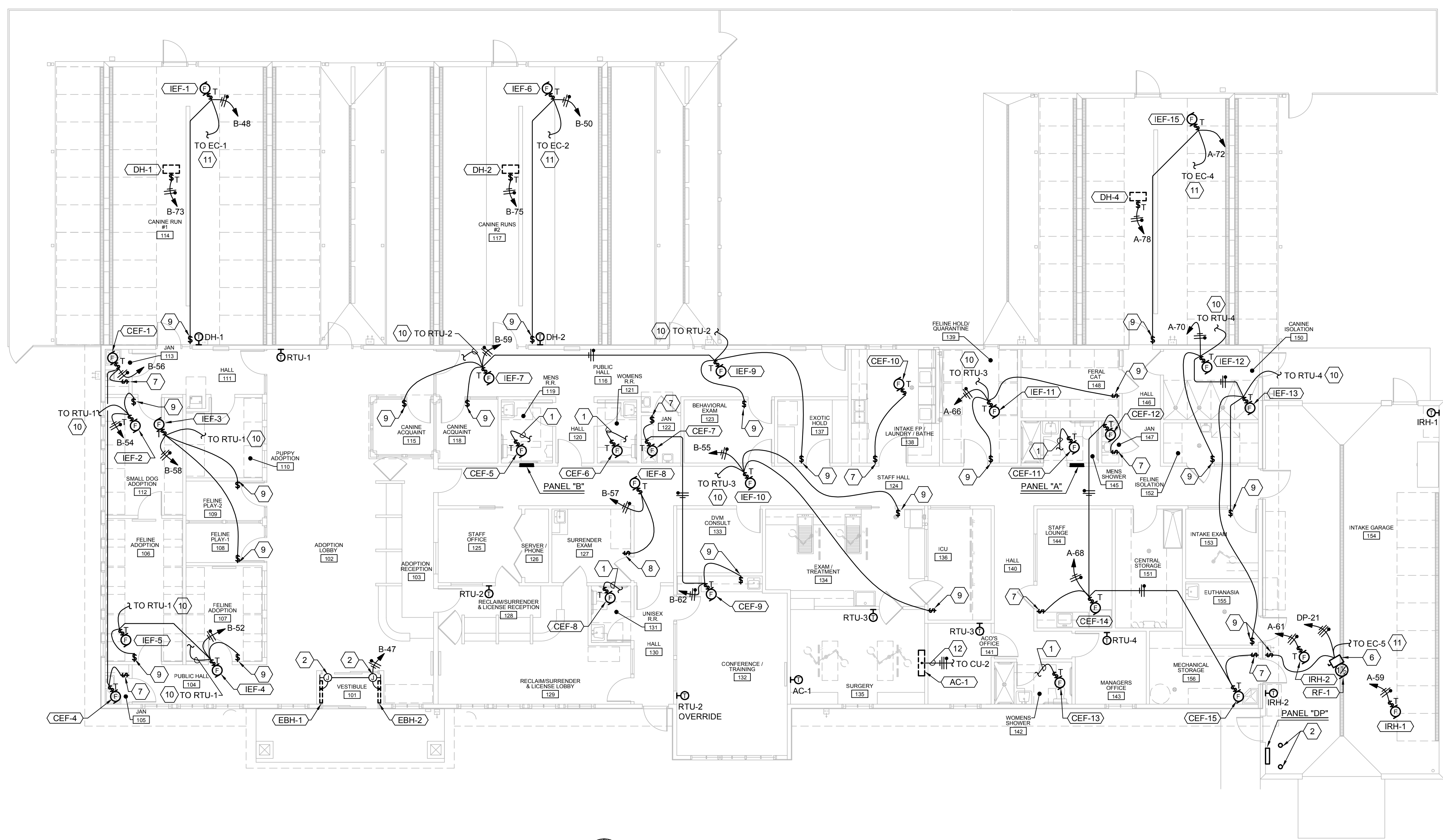
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E103
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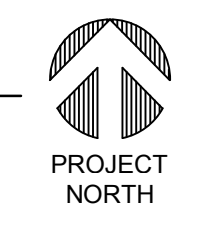
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KEYED NOTES

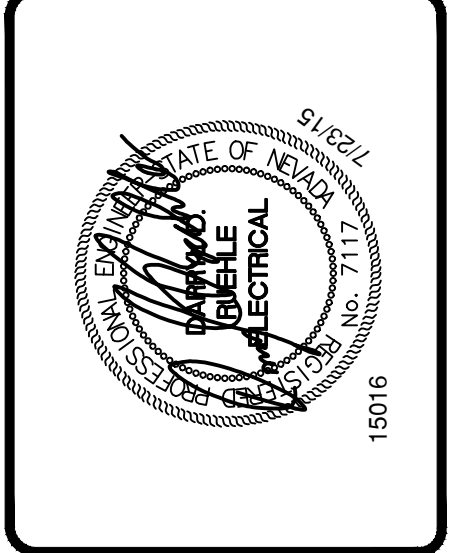
- EXHAUST FAN SHALL CONNECT TO LIGHTING CIRCUIT AND BE CONTROLLED BY RELATED ROOM LIGHT SWITCH.
- JUNCTION BOX FOR POWER CONNECTION TO BASEBOARD HEATER. CONTRACTOR SHALL MAKE FINAL TERMINATION AT UNIT.
- NOT USED.
- NOT USED.
- NOT USED.
- 240V-30A-2P-3W PLUS SOLID NEUTRAL, FUSIBLE, NEMA 1 ENCLOSURE DISCONNECT SWITCH. FUSE AS RECOMMENDED BY UNIT MANUFACTURER.
- SINGLE POLE TOGGLE SWITCH WITH RED PILOT LIGHT FOR CONTROL OF EXHAUST FAN. PILOT LIGHT SHALL ILLUMINATE WHEN FAN IS ENERGIZED. PROVIDE PERMANENT LABEL ON FACEPLATE. LABEL TO READ, "EXHAUST FAN ON-OFF". VERIFY LOCATION PRIOR TO INSTALLATION.
- PROVIDE AND INSTALL A 15 MINUTE "TWIST-TIMER". VERIFY LOCATION PRIOR TO INSTALLATION.
- PROVIDE AND INSTALL A 15 MINUTE "TWIST-TIMER". TWIST-TIMER FOR "HIGH" SPEED CONTROL OF FAN.
- 3/4" CONDUIT WITH PULLWIRE FOR INTERLOCK WITH MECHANICAL UNIT INDICATED FOR "LOW" SPEED CONTROL OF FAN.
- 3/4" CONDUIT WITH PULLWIRE FOR INTERLOCK WITH MECHANICAL UNIT INDICATED.
- EXTEND 3/4" CONDUIT WITH (3) #12 AND (1) #12 GROUND UP TO MECHANICAL UNIT INDICATED.



A1 POWER PLAN - MECHANICAL
1/8"=1'-0"



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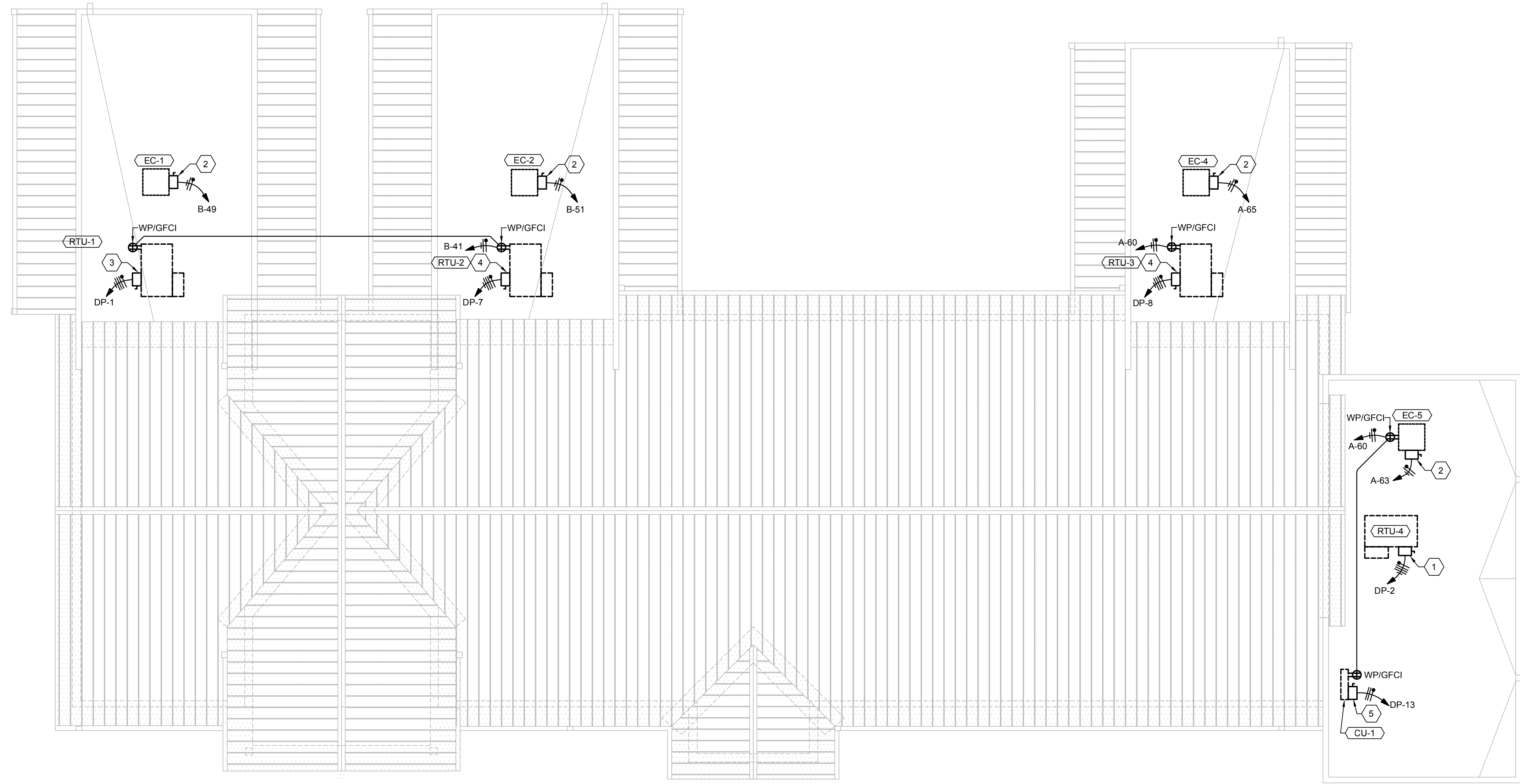
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POWER PLAN - MECHANICAL		
REV.#	DATE	COMMENTS

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E104
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 Drawing Name: F:\15016 Carson City Animal Services\15016 CAD\Construct\Electrical\15016 - E105 - Electrical Roof Plan - V1.dwg



A1 ELECTRICAL ROOF PLAN
 1/8"=1'-0"

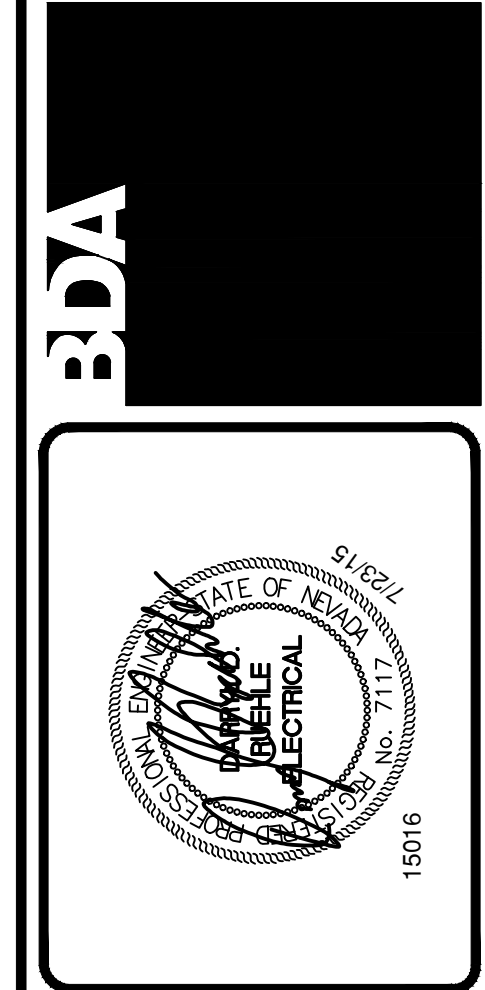


- KEYED NOTES**
- 240V-60A-3P-4W PLUS SOLID NEUTRAL, FUSIBLE, RAIN-TIGHT DISCONNECT SWITCH. FUSE AS RECOMMENDED BY UNIT MANUFACTURER. (4) #6 AND (1) #8 GROUND IN 1" CONDUIT.
 - 240V-30A-2P-3W PLUS SOLID NEUTRAL, FUSIBLE, RAIN-TIGHT DISCONNECT SWITCH. FUSE AS RECOMMENDED BY UNIT MANUFACTURER. (3) #10 AND (1) #10 GROUND IN 3/4" CONDUIT.
 - 240V-100A-3P-4W PLUS SOLID NEUTRAL, FUSIBLE, RAIN-TIGHT DISCONNECT SWITCH. FUSE AS RECOMMENDED BY UNIT MANUFACTURER. (4) #4 AND (1) #8 GROUND IN 1 1/4" CONDUIT.
 - 240V-60A-3P-4W PLUS SOLID NEUTRAL, FUSIBLE, RAIN-TIGHT DISCONNECT SWITCH. FUSE AS RECOMMENDED BY UNIT MANUFACTURER. (4) #8 AND (1) #10 GROUND IN 3/4" CONDUIT.
 - 240V-30A-2P-3W PLUS SOLID NEUTRAL, FUSIBLE, RAIN-TIGHT DISCONNECT SWITCH. FUSE AS RECOMMENDED BY UNIT MANUFACTURER. (3) #10 AND (1) #10 GROUND IN 3/4" CONDUIT.

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ELECTRICAL ROOF PLAN

REVISION	REV.#	DATE	COMMENTS
REVISION:	-	-	-
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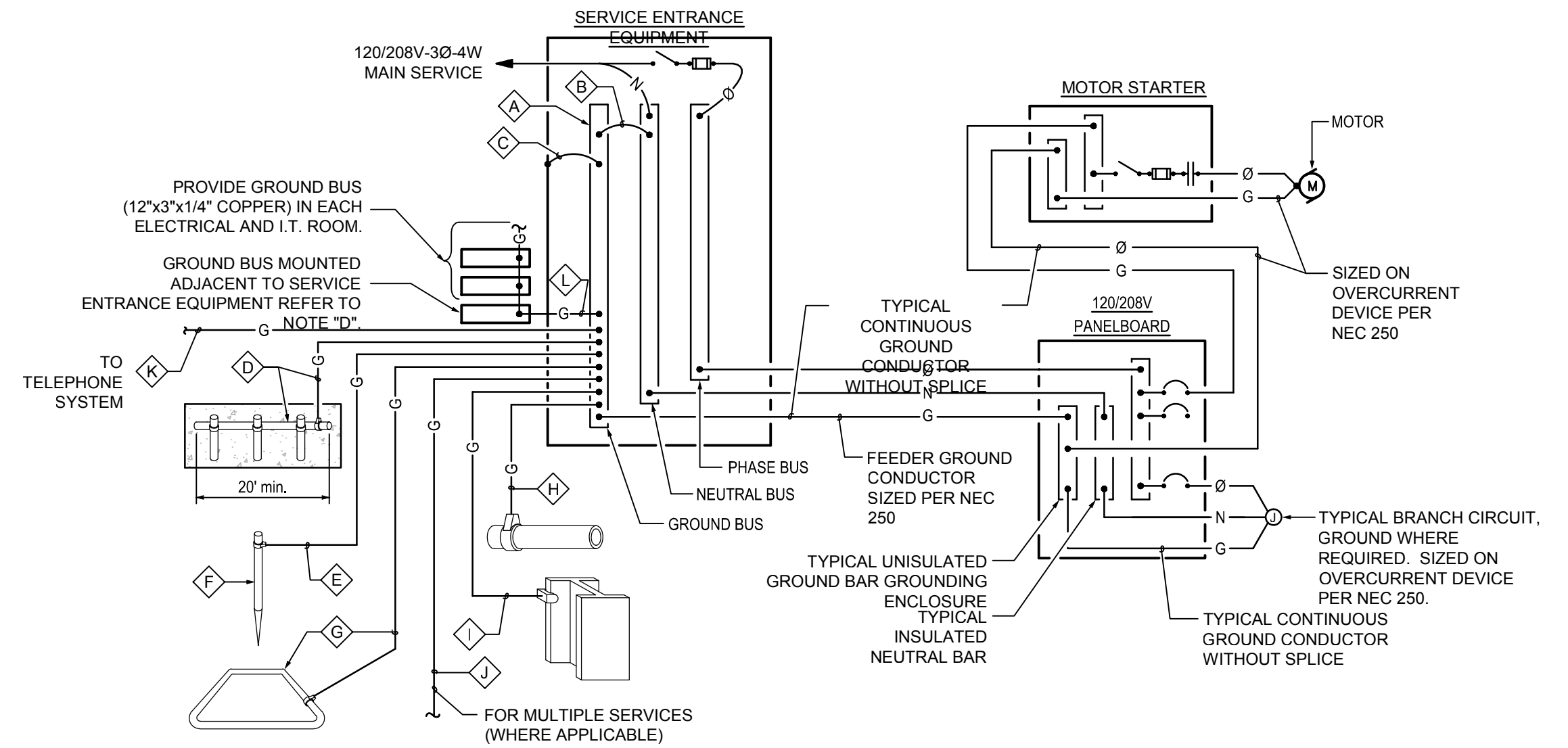
REVIEWS

INITIALS	BDA DSGN. REV.	BDA TECH REV.

CCAS
 PROJECT NO.: 1107
 DRAWN: RP / RW / JKD
 DATE: 7/23/2015

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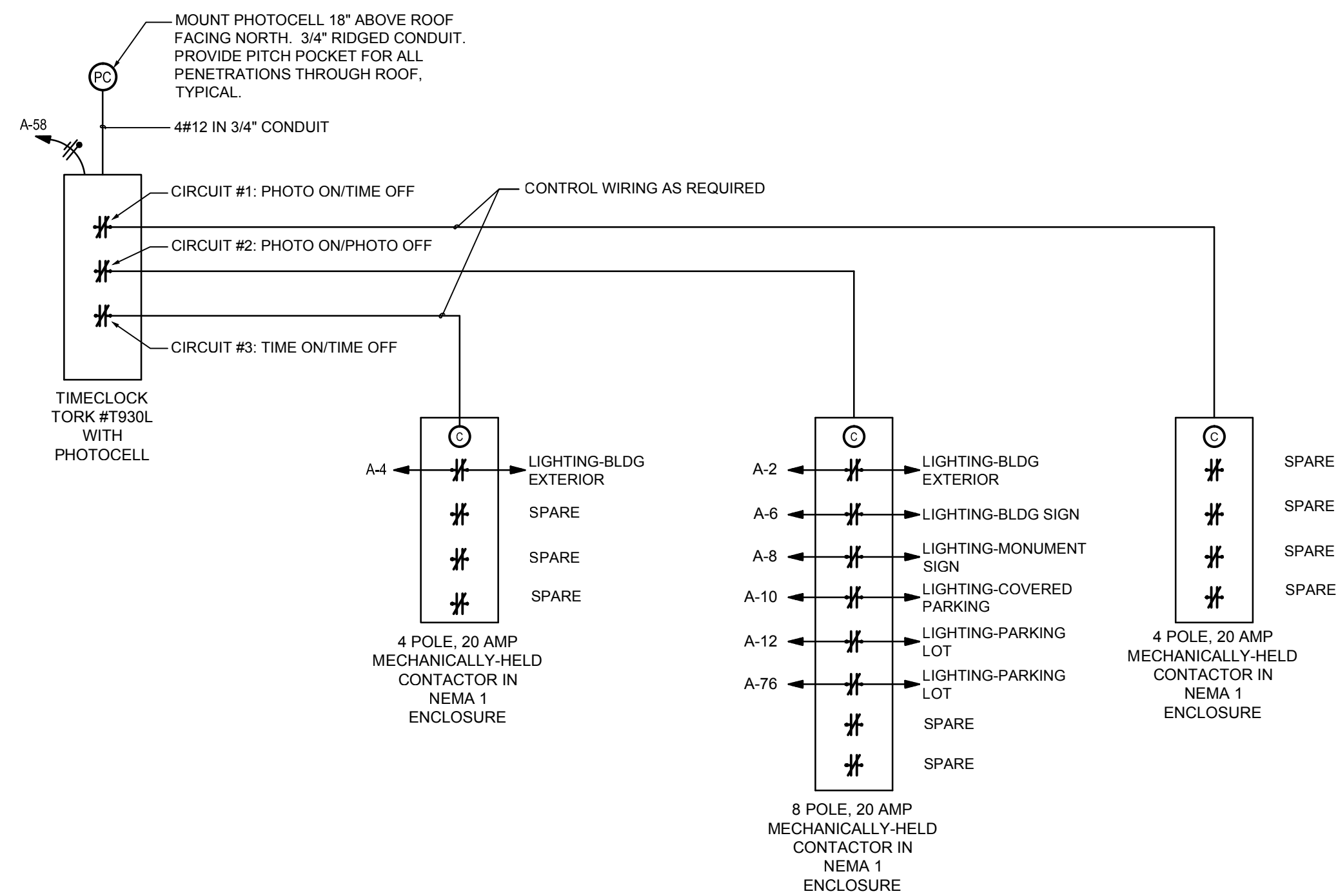




GROUNDING SYSTEM DIAGRAM
NOT TO SCALE

GROUNDING SYSTEM GENERAL NOTES

- A. THE GROUNDING ELECTRODE SYSTEM SHALL CONSIST OF ITEMS **A**, **B**, **C**, **D**, **E**, **F**, AND **G**, WHERE APPLICABLE.
- B. ITEMS **I** AND **J** MUST BE BONDED TOGETHER AND TO THE GROUNDING ELECTRODE SYSTEM WHEN THEY ARE PRESENT.
- C. ITEM **D**, CONCRETE ENCASED ELECTRODE (UFER) SHALL HAVE UFER SUPPORT CONSISTING OF 5/8" x 10' COPPER GROUND ROD CUT INTO 2' SECTIONS AND DRIVEN FOR SUPPORT OF UFER CONDUCTOR. ONLY COPPER TO COPPER CONNECTIONS ARE ACCEPTABLE. DO NOT USE RE-BAR FOR UFER SUPPORT. (THIS IS TO AVOID THE HARMFUL EFFECTS OF DISSIMILAR METALS IN CONTACT.) A U.L. LISTED COPPER TO RE-BAR CLAMP (SUCH AS GRAVES "JONES BOND" SYSTEM) IS AN APPROVED ALTERNATIVE.
- D. ITEM **E**, PER NEC 250.94, PROVIDE AND INSTALL A LISTED INTERSYSTEM BONDING TERMINATION FOR CONNECTING BONDING CONDUCTORS REQUIRED FOR OTHER SYSTEMS EXTERNAL TO ADJACENT SERVICE EQUIPMENT OR METERING EQUIPMENT ENCLOSURE. INTERSYSTEM BONDING TERMINATION SHALL CONSIST OF SET OF TERMINALS WITH CAPACITY FOR CONNECTION OF NOT LESS THAN THREE INTERSYSTEM BONDING CONDUCTORS.
- E. THIS DETAIL IS PROVIDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, ARTICLE 250, PERTAINING TO THE "GROUNDING ELECTRODE SYSTEM".
- F. ALL SPLICING SHALL BE ACCOMPLISHED VIA EXOTHERMIC WELD (CAD-WELD) ONLY.
- G. ALL CONDUCTOR SIZING INDICATED ON THE GROUNDING SCHEDULE ARE FOR COPPER CONDUCTORS. ALUMINUM IS NOT PERMITTED.
- H. ANY VARIANCES FROM THIS DIAGRAM AND ASSOCIATED SCHEDULE AND NOTES MUST BE REQUESTED AND APPROVED IN WRITING PRIOR TO INSTALLATION.
- I. ALL INSTALLATIONS SHALL COMPLY WITH THE LATEST ADOPTED EDITION OF N.E.C. ARTICLE 250 (ALL SUBPARAGRAPHS) AND ALL STATE AND LOCAL REQUIREMENTS.
- J. THE GROUNDING SYSTEM SHALL PROVIDE LESS THAN (4) FOUR OHMS RESISTANCE TO GROUND AT THE SERVICE CONNECTION. THE RESULTS SHALL BE VERIFIED BY AN INDEPENDENT TESTING AGENCY VIA GROUND TEST (FALL-OF-POTENTIAL) AND SUBMITTED TO ELECTRICAL ENGINEER UPON COMPLETION OF PROJECT.



EXTERIOR BUILDING LIGHTING CONTROL DIAGRAM
TIME ON AND/OR TIME OFF SETTINGS SHALL BE SET TO OWNER'S REQUIREMENTS.

CODE REFERENCE AMPLACITY	GROUNDING SCHEDULE											
	A	B	C	D	E	F	G	H	I	J	K	L
	FACTORY INSTALLED GROUND BUS BAR	INTEGRATED BUS BAR MAIN BOND JUMPER	INTEGRATED BUS BAR CASE BOND JUMPER	CONCRETE ENCASED ELECTRODE (UFER)	GROUNDING ELECTRODE TO ROD, PIPE OR PLATE	CU OR CU-CLAD STEEL GROUND ROD	COPPER GROUND RING CONDUCTOR	METALLIC PIPING BONDING CONDUCTOR	BUILDING STEEL BONDING CONDUCTOR	MULTIPLE SERVICE BONDING CONDUCTOR	TELEPHONE SYSTEM GROUNDING CONDUCTOR	INTERSYSTEM BONDING
200 AMP	#4	#4	#4	#6	5/8"x8'	#2	#4	#4	#4	#6	#6	
225 AMP	#2	#2	#4	#6	5/8"x8'	#2	#2	#2	#2	#6	#6	
400 AMP	#1/0	#1/0	#4	#6	5/8"x8'	#1/0	#1/0	#1/0	#1/0	#6	#6	
600 AMP	#2/0	#2/0	#4	#6	5/8"x8'	#2/0	#2/0	#2/0	#2/0	#6	#6	
800 AMP	#3/0	#3/0	#4	#6	5/8"x8'	#2/0	#2/0	#2/0	#2/0	#6	#6	
1000 AMP	#3/0	#3/0	#4	#6	5/8"x8'	#3/0	#3/0	#3/0	#3/0	#6	#6	
1200 AMP	250kMIL	250kMIL	#4	#6	5/8"x8'	#3/0	#3/0	#3/0	#3/0	#6	#6	
1600 AMP	350kMIL	350kMIL	#4	#6	5/8"x8'	#3/0	#3/0	#3/0	#3/0	#6	#6	
2000 AMP	400kMIL	400kMIL	#4	#6	5/8"x8'	#3/0	#3/0	#3/0	#3/0	#6	#6	
2500 AMP	500kMIL	500kMIL	#4	#6	5/8"x8'	#3/0	#3/0	#3/0	#3/0	#6	#6	
3000 AMP	500kMIL	500kMIL	#4	#6	5/8"x8'	#3/0	#3/0	#3/0	#3/0	#6	#6	

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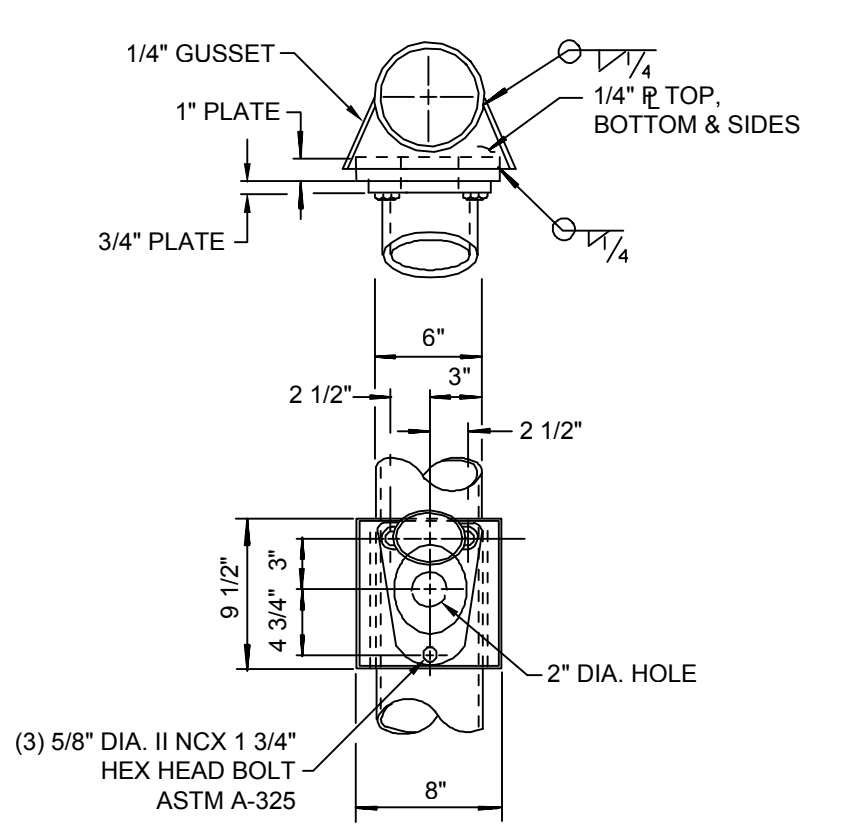


ELECTRICAL SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	WALL OUTLET AND SURFACE MOUNTED FIXTURE
	CEILING OUTLET AND RECESSED FIXTURE
	WALL OUTLET AND RECESSED FIXTURE
	FLUORESCENT FIXTURE
	FLUORESCENT OUTLET AND FIXTURE
	EGRESS LIGHTING BATTERY PACK
	SINGLE FACED EXIT SIGN WITH ARROWS AS INDICATED
	DOUBLE FACED EXIT SIGN WITH ARROWS AS INDICATED
	SINGLE POLE SWITCH, FLUSH MOUNTED 48" A.F.F.
	THREE WAY SWITCH, FLUSH MOUNTED 48" A.F.F.
	FOUR WAY SWITCH, FLUSH MOUNTED 48" A.F.F.
	SINGLE POLE SLIDE-TO-OFF, DIMMING CONTROLLER, LUTRON #N-600 OR APPROVED EQUAL, FLUSH MOUNTED 48" A.F.F.
	EVAPORATIVE COOLER SWITCH, ONE "HI-OFF-LOW" FOR FAN AND ONE "ON-OFF" FOR PUMP. FURNISH WITH ENGRAVED NAMEPLATE. FLUSH MOUNTED 48" A.F.F.
	THERMAL SWITCH, WEATHERPROOF IF INSTALLED OUTSIDE
	DUPLEX CONVENIENCE OUTLET, 18" A.F.F.
	WEATHERPROOF DUPLEX CONVENIENCE OUTLET, 18" A.F.F.
	DUPLEX CONVENIENCE OUTLET, GROUND FAULT CIRCUIT INTERRUPTER, 18" A.F.F.
	QUADPLEX CONVENIENCE OUTLET, 18" A.F.F.
	QUADPLEX CONVENIENCE OUTLET, GROUND FAULT CIRCUIT INTERRUPTER, 18" A.F.F.
	FLUSH CEILING MOUNTED DUPLEX CONVENIENCE OUTLETS
	SPECIAL PURPOSE RECEPTACLE, AS NOTED ON PLANS, 18" A.F.F.
	JUNCTION BOX INSTALLED ABOVE LAY-IN CEILING WITH FLEXIBLE CONDUIT CONNECTION TO LAY-IN FIXTURES. MAXIMUM 4'-0" LENGTH OF CONDUIT, WITH REQUIRED CONDUCTORS ALONG WITH GREEN GROUND CONDUCTOR
	JUNCTION BOX FLUSH IN WALL, HEIGHT AS INDICATED ON DRAWINGS, WITH CONNECTION TO EQUIPMENT
	BRANCH CIRCUIT OR CONDUIT INSTALLED UNDERGROUND OR UNDER FLOOR
	HOMERUN TO PANELBOARD WITH BRANCH CIRCUIT NUMBERS INDICATED
	VOICE/DATA OUTLET, UP 18" A.F.F. UNLESS OTHERWISE NOTED. 3/4" CONDUIT MINIMUM WITH PULLCORD STUB-UP ABOVE ACCESSIBLE CEILING SPACE (2 GANG BOX, SINGLE GANG RING)
	TELEVISION OUTLET FLUSH IN WALL, 18" A.F.F. 3/4" CONDUIT WITH PULLCORD STUBBED INTO ACCESSIBLE CEILING SPACE
	SPEAKER FLUSH IN CEILING
	FIRE ALARM MANUAL PULLSTATION, 48" A.F.F.
	FIRE ALARM AUDIO/VISUAL DEVICE, 80" A.F.F.
	FIRE ALARM SMOKE DETECTOR, PHOTOELECTRIC TYPE
	FIRE ALARM HEAT DETECTOR
	FIRE ALARM TAMPER SWITCH
	FIRE ALARM FLOW SWITCH
	MOTOR CONNECTION FOR FRACTIONAL HP MOTOR (1/3 HP OR LESS). PROVIDE THERMAL OVERLOAD SWITCH (WEATHERPROOF IF OUTSIDE) ADJACENT TO MOTOR UNLESS SWITCH IS SHOWN ELSEWHERE ON PLANS
	FUSED DISCONNECT SWITCH, FUSE, POLES AND RATING AS INDICATED OR AS REQUIRED, NEMA 3R IF INSTALLED OUTSIDE
	TRANSFORMER, DRY TYPE, SIZE AS INDICATED
	MECHANICAL UNIT
	THERMOSTAT(M), 48" A.F.F.
	120V PANELBOARD, REFER TO PANEL SCHEDULE
	SPECIAL PURPOSE CABINET, AS INDICATED ON DRAWINGS
	3/4" PLYWOOD TELEPHONE CABINET WITH TWO COATS OF GRAY INSULATING PAINT
	SWITCH
	FUSE(S)
	CIRCUIT BREAKER
	WEATHERPROOF (NEMA 3R)
	MECHANICAL (FURNISHED UNDER DIVISION 15)
	A.F.F. ABOVE FINISHED FLOOR
	U.N.O. UNLESS NOTED OTHERWISE

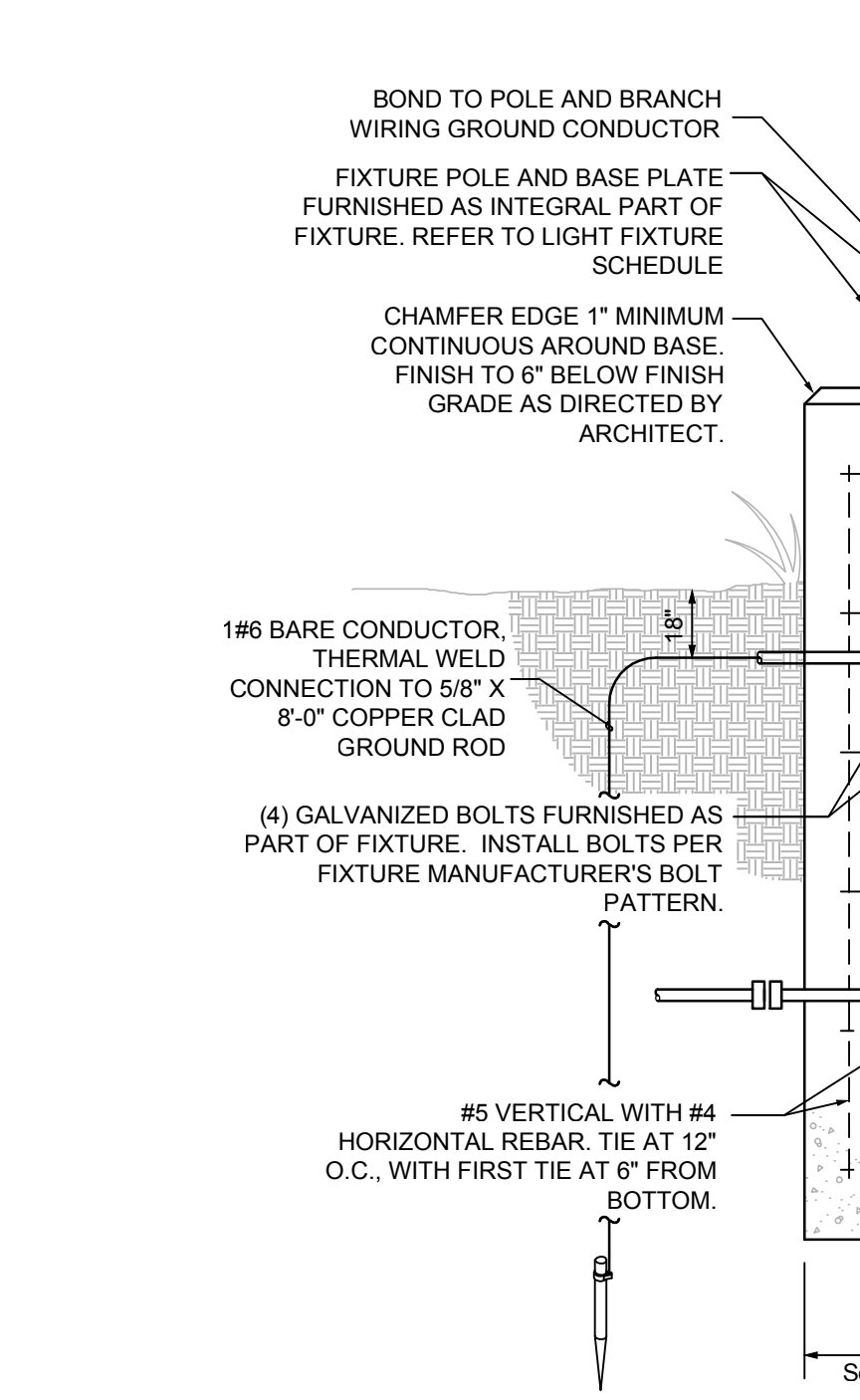
- NOTES:
- LIGHTING FIXTURES ARE OF TYPE AS INDICATED ON LIGHT FIXTURE SCHEDULE U.N.O.
 - MOUNTING HEIGHTS FOR DEVICES CALLED OUT AT 18" A.F.F. ARE TO THE BOTTOM OF THE DEVICE UNLESS OTHERWISE NOTED.
 - MOUNTING HEIGHTS FOR DEVICES CALLED OUT AT 48" A.F.F. ARE TO THE TOP OF THE DEVICE UNLESS OTHERWISE NOTED.
 - ANY SPECIFIC DETAILS ABOVE (MOUNTING HEIGHTS, PART NUMBERS, CONNECTION METHODS, ETC.) MAY BE MODIFIED OR REPLACED BY INFORMATION ON PLANS, SCHEDULES, DETAILS, RISERS, ETC. DETAILS NOT SPECIFICALLY MODIFIED REMAIN AS GIVEN ABOVE.

LIGHT FIXTURE SCHEDULE			
TYPE	FIXTURE DESCRIPTION	LAMPS	MOUNTING
A	2'x4' RECESSED STATIC TROFFER, LED, 4000 LUMENS, ACRYLIC LENS, 120 VOLT CREE #ZR24-40L-35K-10V	1-44W LED 3500°K	RECESSED T-GRID
B	2'x4' RECESSED STATIC TROFFER, LED, 5000 LUMENS, ACRYLIC LENS, TRIPLE GASKETING, 120 VOLT CREE #ZR24-50L-35K-10V	1-45W LED 3500°K	RECESSED T-GRID
C	1'x4' RECESSED STATIC TROFFER, LED, 4000 LUMENS, ACRYLIC LENS, TRIPLE GASKETING, 120 VOLT CREE #ZR14-40L-35K-10V	1-44W LED 3500°K	RECESSED T-GRID
D	4FT SURFACE FIXTURE, LED, 4700 LUMENS, WET LISTED, 120 VOLT COLUMBIA #LXEP4-35-ML-DCA-E-U	1-47W LED 3500°K	CEILING SURFACE
E	2FT WALL BRACKET, LED, 800 LUMENS PER FOOT, 120 VOLT AXIS LIGHTING #PRWLED-B2-800-35-S-2-AP-120-D-1	1-21W LED	WALL ABOVE MIRROR
F	RECESSED DOWNLIGHT, LED, 1000 LUMENS, 120 VOLT CREE #LR6-10L-35K-120V-A	1-11W LED 3000°K	RECESSED
G	RECESSED DOWNLIGHT, LED, DIMMING, 1800 LUMENS, 120 VOLT CREE #LR6-18L-35K-120V-A	1-20W LED 3500°K	RECESSED
H	CEILING SURFACE DRUM, LED, 900 LUMENS, 120 VOLT PRESCOLITE #LBSLED10L-35K-8-WH	1-16W LED 4000°K	CEILING SURFACE
K	PENDANT LIGHT, LED, 120 VOLT BARBICAN #16-0424-LF1075-10"-SM-HTO-T7206-BA-LED72-120V	1-72W LED 3500°K	PENDANT SEE ARCH.
L	PENDANT LIGHT, LED (100W EQUIVALENT) WET LISTED, 120 VOLT PROGRESS LIGHTING #P6514-31	1-18W LED 3500°K	PENDANT SEE ARCH.
M	INTERIOR WALL SCONCE, LED, 120 VOLT BARBICAN #16-3813-WM-OA-LF1075-T7206-WHT-LED20-120V	1-20W LED 3500°K	WALL MOUNT SEE ARCH.
N	EXTERIOR WALL PACK, LED, 960 LUMENS, BRONZE FINISH, WET LISTED, 120 VOLT TERON LIGHTING #CRNW-L133.6-120-CGL-TB-51K	1-45W LED 5100°K	WALL MOUNT SEE ARCH.
N2	EXTERIOR WALL PACK, LED, 960 LUMENS, BLACK FINISH, EMERGENCY BATTERY, WET LISTED, 120 VOLT TERON LIGHTING #CRNW-L133.6-120-CGL-TB-51K-EB	1-45W LED 5100°K	WALL MOUNT SEE ARCH.
N3	EXTERIOR DECORATIVE LIGHT, LED, (100W EQUIVALENT), WET LISTED, 120 VOLT PROGRESS #P6064-31	1-18W LED 3500°K	WALL MOUNT SEE ARCH.
P	RECESSED DOWNLIGHT, LED, 1100 LUMENS, LENS, WET LISTED, EMERGENCY BATTERY, 120 VOLT FOCAL POINT #FL6D-RO-11LED-40K-120-LD1-T-EML6-RD-RL-CD-NP	1-16W LED 4000°K	RECESSED
R	EXHAUST FAN WITH LIGHT, 120 VOLT REFER TO MECHANICAL SCHEDULE FOR DESCRIPTION	XXX	RECESSED
V1	POLE MOUNTED FIXTURE, LED, SINGLE HEAD, TYPE IV DISTRIBUTION, 23FT SQUARE STRAIGHT STEEL POLE, WP/GFCI DUPLEX RECEPTACLE, BRONZE FINISH, UNIVERSAL VOLTAGE OWNER FURNISHED, CONTRACTOR INSTALLED	1-263W LED 5700°K	REFER TO POLE BASE DETAIL THIS SHEET
V2	POLE MOUNTED FIXTURE, LED, SINGLE HEAD, TYPE V DISTRIBUTION, 23FT SQUARE STRAIGHT STEEL POLE, WP/GFCI DUPLEX RECEPTACLE, BRONZE FINISH, UNIVERSAL VOLTAGE OWNER FURNISHED, CONTRACTOR INSTALLED	1-263W LED 5700°K	REFER TO POLE BASE DETAIL THIS SHEET
W	NOT USED		
Z	SURFACE MOUNT SIGN LIGHT, LED, TWO HEADS, 120 VOLT BASELITE #2K2-41-E33-10WLED-5K	1-10W LED 5000°K PER HEAD	SURFACE MOUNT SEE ARCH.
AA	POLE MOUNTED FIXTURE, LED, SINGLE HEAD, TYPE III DISTRIBUTION, 28'-6" SQUARE STRAIGHT STEEL POLE, 15 FT ARM, BLACK FINISH, UNIVERSAL VOLTAGE (EXISTING) CITY OWNED, CONTRACTOR INSTALLED	1-272W LED 6000°K	REFER TO POLE BASE DETAILS THIS SHEET
	EMERGENCY EGRESS LIGHT FIXTURE WITH BATTERY BACK-UP, 120 VOLT DUAL-LITE #LZ2-03L	WITH UNIT	WALL MOUNT
	EXIT SIGN WITH BATTERY BACK-UP, 120 VOLT DUAL-LITE #LXURWE	WITH UNIT	UNIVERSAL
	EXIT SIGN WITH BATTERY BACK-UP, WET LISTED, 120 VOLT DUAL-LITE #LN4XRWE	WITH UNIT	UNIVERSAL
	COMBINATION EXIT SIGN / EMERGENCY EGRESS LIGHT FIXTURE WITH BATTERY BACK-UP, 120 VOLT DUAL-LITE #HCXURW	WITH UNIT	WALL MOUNT

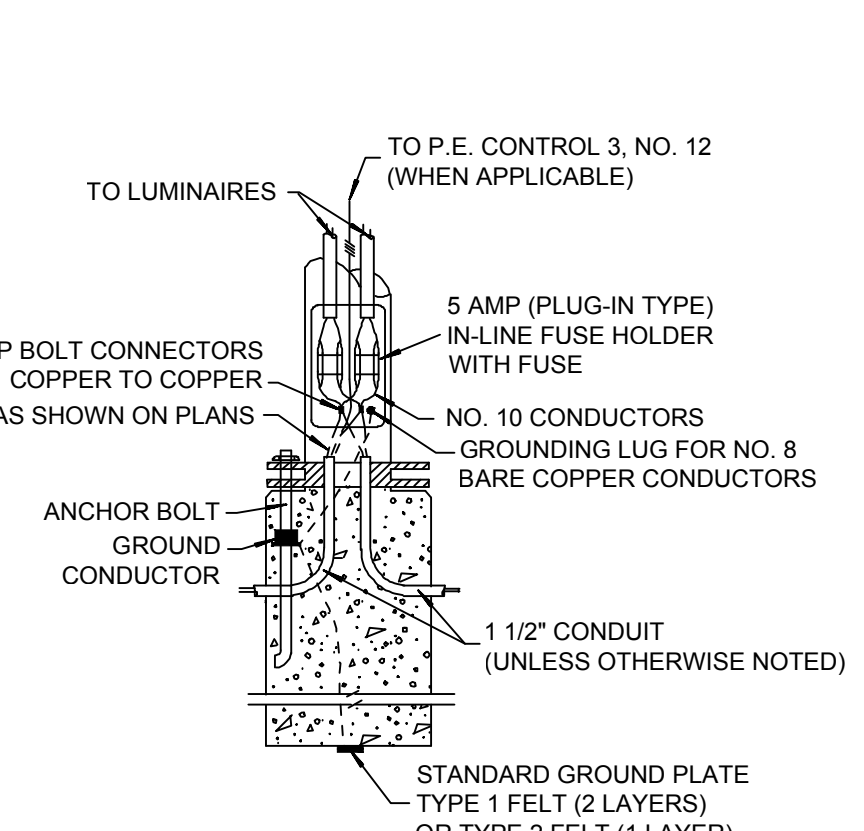
FIXTURE TYPE "AA" BASE PLATE
 NOT TO SCALE (NOT APPLICABLE WHEN SAFETY BASES REQUIRED)



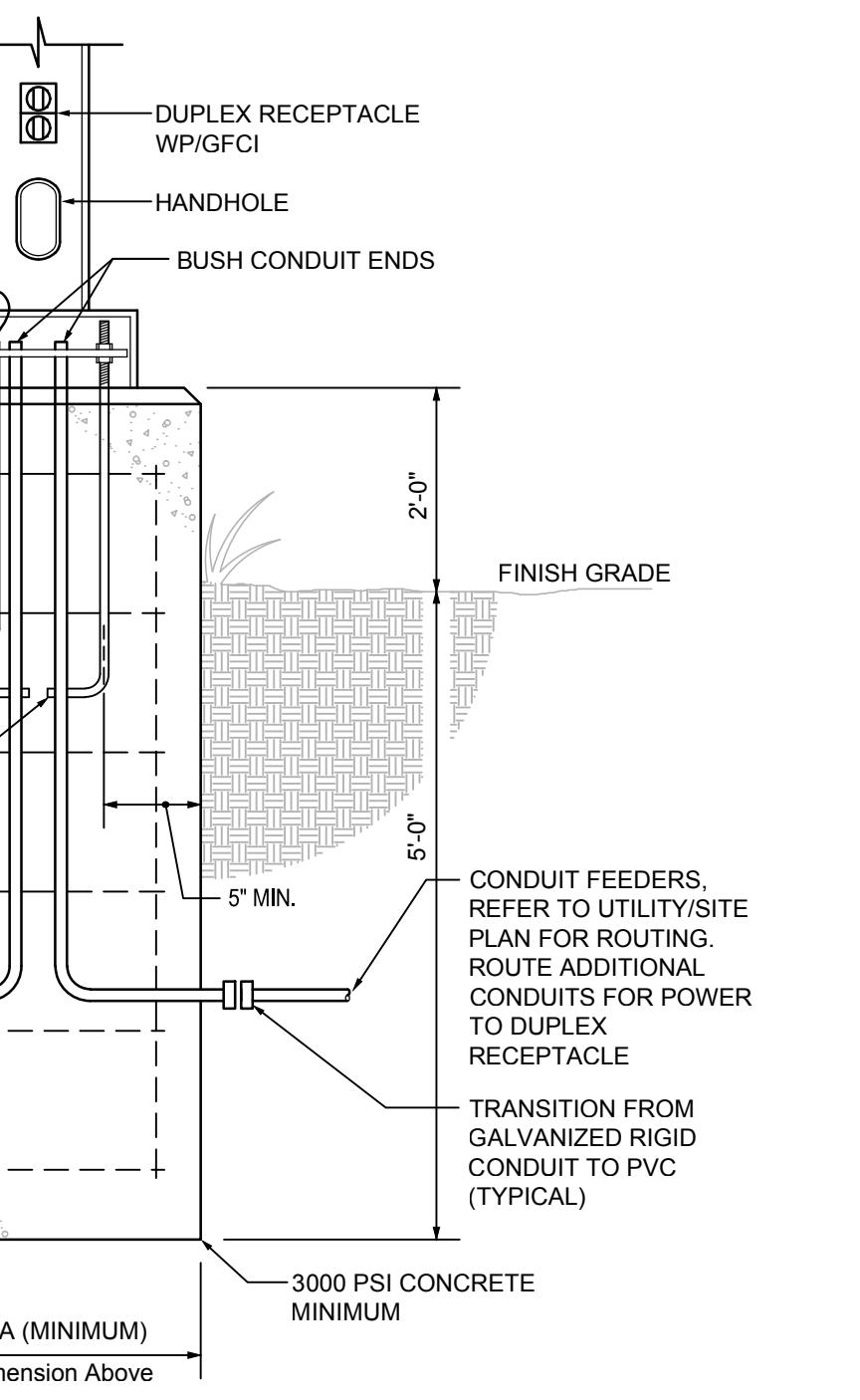
FIXTURE TYPE "AA" LUMINAIRE ARM CONNECTION
 NOT TO SCALE



FIXTURE TYPE "AA" DETAIL
 NOT TO SCALE



FIXTURE TYPE "AA" WIRING DIAGRAM
 NOT TO SCALE



FIXTURE TYPE "AA" NOTES

- DESIGN CRITERIA**
- AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 4TH EDITION DATED 2001 AND CURRENT INTERIMS (EXCLUDING SECTION 11: FATIGUE DESIGN).
- BASIC WIND SPEED = 90 MPH
- GALVANIZING**
- POLES SHALL BE GALVANIZED AS PER ASTM A-123. HARDWARE SHALL BE GALVANIZED AS PER ASTM A-153.
- STEEL SIGNAL AND LUMINAIRE ARMS**
- THE LAST 3" OF THE LUMINAIRE ARM SHALL BE STRAIGHT AND HORIZONTAL WITH LUMINAIRE ATTACHED.
 - CONNECTION BETWEEN ARMS AND POLES SHALL BE MADE BY MEANS OF A RAIN-TIGHT SOCKET OR A DESIGN PERMITTING SIMPLE REMOVAL OF THE ARMS.
- ANCHOR BOLTS**
- PROVIDE (4) ASTM A-307 ANCHOR BOLTS, (8) ASTM A-563 HEAVY HEX NUTS, AND (8) ASTM F-436 HARDENED STEEL WASHERS FOR EACH POLE.
 - THREADS MAY BE CUT OR ROLLED. BOLTS SHALL BE GALVANIZED OR PLATED AFTER THREADS ARE FORMED. EACH BOLT SHALL BE PROVIDED WITH 6" OF THREADS.
 - WHEN USING A SAFETY BASE, ANCHOR BOLTS SHALL NOT EXTEND ABOVE THE SLIP BOLT GASKET.
- STEEL POLES**
- BASE COVERS ARE REQUIRED ON ALL POLES EXCEPT WHERE SAFETY BASE IS SPECIFIED.
 - A REDUCED GAGE FOR SHAFT OF POLE WILL BE ACCEPTABLE ABOVE SIGNAL ARM ATTACHMENT.
- WELDS**
- LONGITUDINAL WELDS BY SUBMERGED ARC OR ERW CIRCUMFERENTIAL BUTT WELDS SHALL HAVE PERMANENT BACKUP RINGS. ALL EXPOSED BUTT WELDS SHALL BE GROUND FLUSH.
 - FOR WELD SIZES NOT SHOWN, USE MINIMUM SIZE WELD AS SPECIFIED BY THE LATEST WELDING CODE.
 - BREAK ALL SHARP EDGES FOR WIRE PROTECTION.
- FOUNDATIONS**
- AT LOCATIONS BEHIND CURB, ALL SIGNAL AND LIGHTING POLES SHALL BE LOCATED AT THE BACK EDGE OF SIDEWALK OR AT THE RW LINE, TO OBTAIN A MINIMUM SETBACK DISTANCE OF 5' BEHIND THE BACK EDGE OF CURB TO CENTER OF POLE.
 - AT LOCATIONS WITHOUT CURB, POLES SHALL BE PLACED A MINIMUM DISTANCE OF 6' FROM SHOULDER OR A MINIMUM OF 10' FROM TRAVEL WAY, WHICHEVER IS GREATER.
- SAFETY BASES**
- FIXTURE TYPE "AA" POLES SHALL REQUIRE SAFETY BASE ASSEMBLIES.
- POLE AND ARM**
- BOTH POLE AND ARM SHALL MATCH CARSON CITY APPROVED STANDARDS.

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