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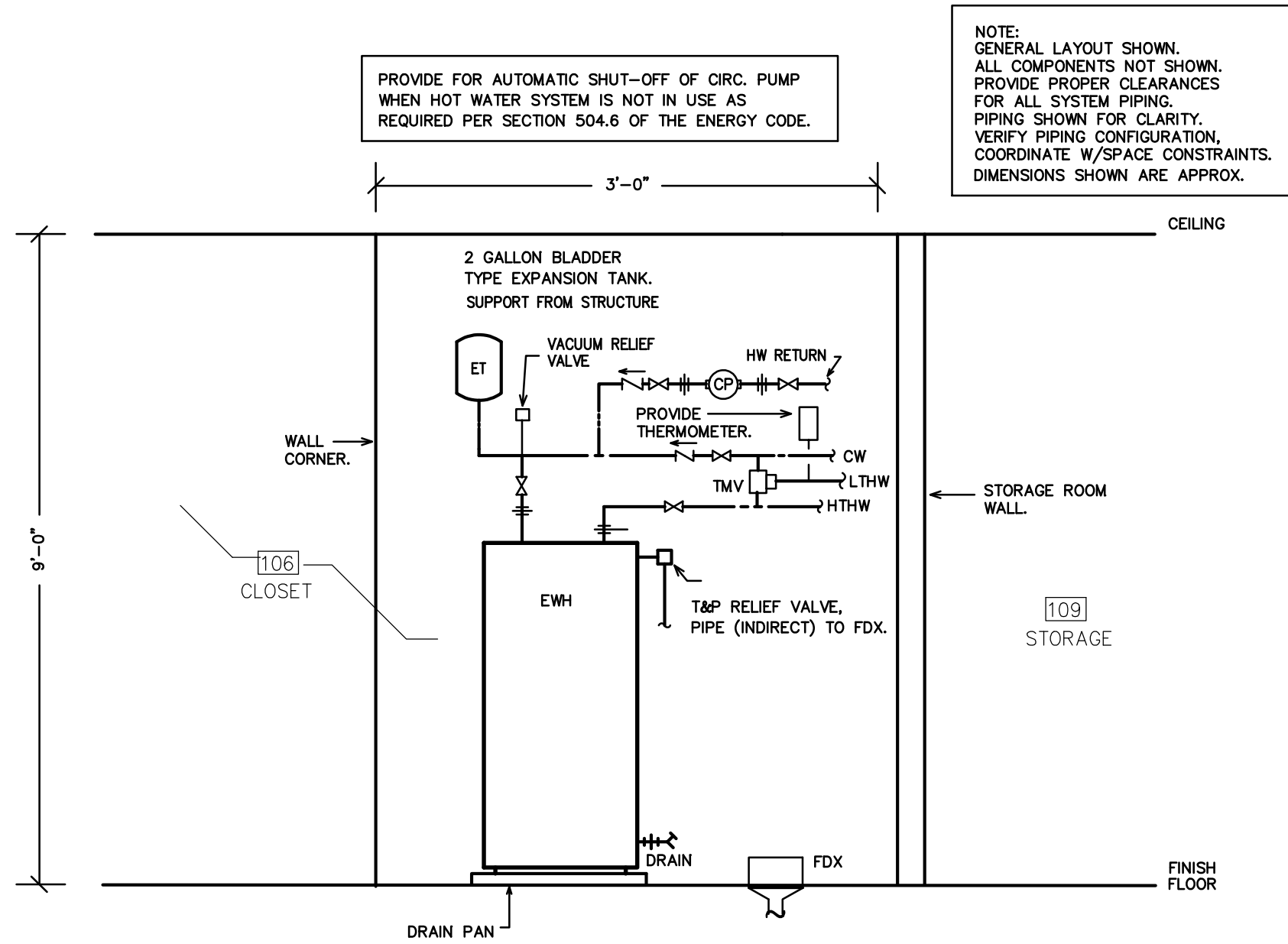
PLUMBING FIXTURE SCHEDULE *

MARK	DESCRIPTION	ALTERNATE MANUFACTURER/MODEL	ALTERNATE MANUFACTURER/MODEL
WC1	WATER CLOSET (FLOOR MOUNT TOP SPUD) AMERICAN STANDARD "MADERA FLOWISE" #3461.001, ELONGATED BOWL, 1.28 GPF, VITREOUS CHINA, AND 1 1/2" TOP SPUD, ADA COMPLIANT. PROVIDE OPEN FRONT SEAT, AND SENSOR W/ MANUAL OVERRIDE FLUSH VALVE EQUAL TO SLOAN OPTIMA 111-1.28-ES-S (AC POWERED) FLUSH VALVE.	ZURN #Z5665 FIXTURE. ZURN #ZEMS6000S FLUSH VALVE.	KOHLER HIGHCREST #K-4302 FIXTURE. HYDROTEK HB-128 VALVE.
WC2	WATER CLOSET (FLOOR MOUNT BACK SPUD) AMERICAN STANDARD "PRIOLO FLOWISE" #3697.001, ELONGATED BOWL, 1.28 GPF, VITREOUS CHINA, AND 1 1/2" BACK SPUD, ADA COMPLIANT. PROVIDE OPEN FRONT SEAT, AND SENSOR W/ MANUAL OVERRIDE FLUSH VALVE, EQUAL TO SLOAN OPTIMA 140-1.28-ES-S (AC POWERED) FLUSH VALVE.	ZURN Z5647-BWL FIXTURE, ZURN #ZEMS6152AV-HET, 1.28 GPF VALVE.	FIXTURE-NO 3RD CHOICE AVAILABLE. HYDROTEK H-8CB-128, 1.28 GPF VALVE.
UR	URINAL AMERICAN STANDARD "ALLBROOK" #6550.001, 1.0 GPF, VITREOUS CHINA, 3/4" BACK SPUD, AND SENSOR W/ MANUAL OVERRIDE FLUSH VALVE SLOAN #195-1.0-ES-S-TMO (AC POWERED). ADA COMPLIANT. PROVIDE FIXTURE CARRIER ZURN Z-1222.	ZURN #5760 WITH ZURN ZEMS6195AV-OB FLUSH VALVE. JAY R. SMITH #0637 CARRIER.	TOTO #UT104EV WITH TOTO #TEU2LN11 FLUSH VALVE. JOSAM #17550 CARRIER.
L1	LAVATORY (ACCESSIBLE, WALL HUNG) AMERICAN STANDARD "LUCERNE" #0356.421 WHITE WITH CONCEALED ARM CARRIER AND DRAIN ASSEMBLY (7723.018). ADA COMPLIANT. FURNISH WITH SLOAN OPTIMA EAF-275 SOLAR POWERED FAUCET. SINK MODEL FOR SINGLE CENTER HOLE.	KOHLER GREENWICH #K-2032 WITH HYDROTEK 7000SLE SOLAR SENSOR FAUCET.	ELIER MURRAY II #051-0244 WITH TOTO TEL3G510 SOLAR SENSOR FAUCET.
L2	2- STATION LAVATORY (ACCESSIBLE) SLOAN SLOANSTONE TWO STATION LAVATORY # ELS-72275-MSD, ADA COMPLIANT. VERIFY COLOR W/ARCH. FURNISH WITH SLOAN OPTIMA EAF-275 SOLAR POWERED FAUCETS. PROVIDE BATTERY POWERED SOAP DISPENSER ESD-350.	BRADLEY MODEL EXD-2N WITH HYDROTEK 7000SLE SOLAR SENSOR FAUCETS.	WILLOUGHBY MODEL WAW-232-DMF WITH TOTO TEL3G510 SOLAR SENSOR FAUCETS.
EWH	ELECTRIC WATER HEATER A.O. SMITH MODEL #DEN-50, 50 GALLON, 4,500 W, 240 V, 1 PH, NON-SIMULTANEOUS DUAL ELEMENT, 27 GPH RECOVERY AT 70 DEGREE TEMPERATURE RISE. 3/4" INLET/OUTLET. PROVIDE DRAIN PAN, PRESSURE RELIEF VALVE. PROVIDE AO SMITH MODEL #PMC-5 EXPANSION TANK.	RHEEM/RUUD #ELD52. AMTROL ST-5-C EXPANSION TANK.	BRADFORD WHITE #LE250S3-3. STATE ETC-2X EXPANSION TANK.
CP	CIRCULATING PUMP BELL & GOSSET, SERIES NBF-22 IN-LINE CIRCULATOR PUMP, 1/12 HP, 115 VAC, FLA=0.8 1 PH, 3/4" CONN., WITH A MAXIMUM OF 22 GPM AND 15' TDH. PUMP TO BE ALL BRONZE CONSTRUCTION, COORDINATE WITH ELEC. CONTRACTOR FOR POWER FEED. PROVIDE DISCONNECT SWITCH.	TACO MODEL #110.	ARMSTRONG MODEL #S-25.
DF	DRINKING FOUNTAIN (IN HIGH/LOW INSTALLATION) ELKAY SWRFLD #DFPB114C WALL-MOUNT BARRIER FREE FOUNTAIN. VERIFY MODEL/COORDINATE WITH ARCH. FOR MOUNTING HEIGHTS (1-HIGH, 1-ADA HEIGHT/LOW; LEFT/RIGHT).	HALSEY-TAYLOR MODEL #OVL-II.	OASIS MODEL #F140R.
RPZ-1	1" REDUCED PRESSURE BACKFLOW PREVENTER WATTS MODEL #0090T-1" REDUCED PRESSURE BACKFLOW PREVENTER, CAST IRON CONSTRUCTION. PROVIDE AMERICAN BACKFLOW SPECIALTIES MODEL HB2 FIBERGLASS HOT BOX VALVE ENCLOSURE WITH 90W HEAT TRACING. PROVIDE 3" POURED IN PLACE CONCRETE SLAB 2" (MIN.) LARGER ON EACH SIDE THAN HOT BOX AND/OR AS REQUIRED BY MFR. VERIFY WITH AHJ SPECIFICATIONS.	ZURN #375-1" RPZ BACKFLOW PREVENTER. WATTS WATTSBOX HOT BOX.	FEBCO #860-1" RPZ BACKFLOW PREVENTER. HUBBELL EZ BOX HOTBOX.
RPZ-2	2" REDUCED PRESSURE BACKFLOW PREVENTER WATTS MODEL #0090T-2" REDUCED PRESSURE BACKFLOW PREVENTER, CAST IRON CONSTRUCTION. PROVIDE AMERICAN BACKFLOW SPECIALTIES MODEL HB2 FIBERGLASS HOT BOX VALVE ENCLOSURE WITH 90W HEAT TRACING. PROVIDE 3" POURED IN PLACE CONCRETE SLAB 2" (MIN.) LARGER ON EACH SIDE THAN HOT BOX AND/OR AS REQUIRED BY MFR. VERIFY WITH AHJ SPECIFICATIONS.	ZURN #375-2" RPZ BACKFLOW PREVENTER. WATTS WATTSBOX HOT BOX.	FEBCO #860-2" RPZ BACKFLOW PREVENTER. HUBBELL EZ BOX HOTBOX.
MTR	WATER METER WUELLER HERSEY HORIZON 2" TURBINE METER. PROVIDE REMOTE READ COUNTER INSIDE MAIN BUILDING. PROVIDE RAVEN PRODUCTS METER BOX- VERIFY SIZE, VERIFY REQUIREMENTS WITH LOCAL AHJ.	PARK ENVIRONMENTAL EQUIP. 2" TURBINE. PARK METER BOX.	NEPTUNE 2" TURBINE. STAR PIPE PRODUCTS METER BOX.
FD	FLOOR DRAIN ZURN ZN-415 WITH DEEP SEAL P-TRAP, 5" X 5" TYPE "S" SQUARE STRAINER AND 3" CONNECTION, VANDAL-PROOF TOP. PROVIDE MODEL WITH TRAP PRIMER CONNECTION ONLY FOR FLOOR DRAINS IN AREAS NOTED ON SHEET P4.	JOSAM #30000-S.	JAY R. SMITH #2005-B.
FDX	FLOOR DRAIN W/EXTENSION FLANGE ZURN MODEL Z415-L, 5" DRAIN, 2" CONNECTION. PROVIDE RAISED FLANGE W/NICKEL BRONZE GRATE, CAST IRON BODY. PROVIDE TRAP PRIMER CONNECTION.	JOSAM #30000-E1	WATTS FD-100-ER.
TPV	TRAP PRIMER VALVE PPP INC. MODEL# PR-500, 1/2" INLET, 1/2" OUTLET	JOSAM #88300.	WATTS #A200.
HB	HOSE BIBB ZURN Z-1330-C, 3/4" WALL HYDRANT WITH VANDAL RESISTANT VACUUM BREAKER. ENCASED WITH KEY LOCK.	WATTS #HY-330.	JAY R. SMITH #5509QT.
FPHB	FREEZE-PROOF HOSEBIBB ZURN Z-1320-C, 3/4" NON FREEZE WALL HYDRANT WITH VANDAL RESISTANT VACUUM BREAKER. ENCASED WITH KEY LOCK.	JAY R. SMITH #5509QT.	WATTS HY-725.
TMV	THERMOSTATIC MIXING VALVE WATTS MKV-MI MIXING VALVE WITH CHECKSTOPS. 3/4" INLETS. INSTALL IN ACCESSIBLE LOCATION. SET OUTFLOW TO SPECIFIED TEMPERATURE (LTHW/110 DEG F.).	LEONARD TM SERIES.	TACO 5000 SERIES.

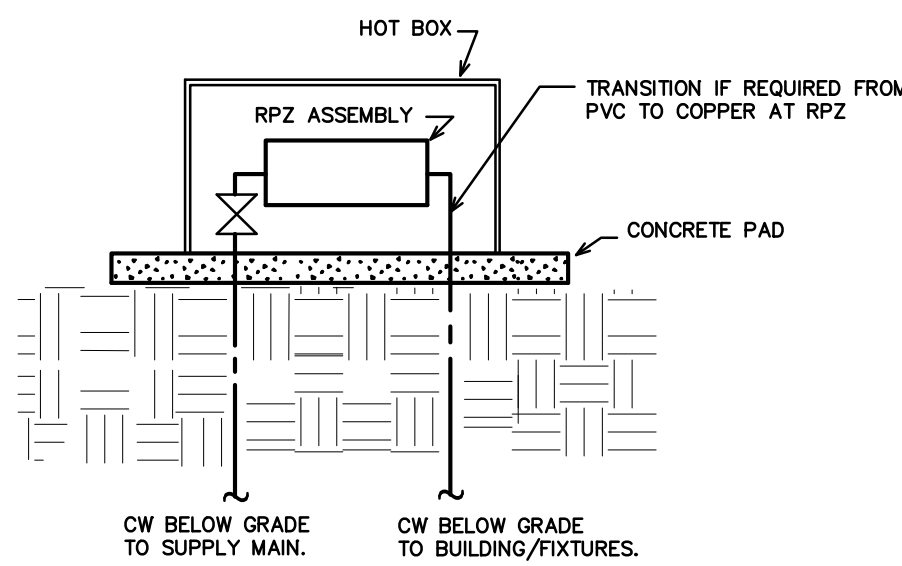
*OR APPROVED EQUAL

GENERAL NOTES - PLUMBING

- PREPLAN ALL WORK PRIOR TO ORDERING, PURCHASING, OR FABRICATING ANY PART OF THE WORK DESCRIBED BY THIS DRAWING.
- IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONFLICTS WITH EXISTING FIELD CONDITIONS OR THE WORK OF OTHER TRADES.
- RESOLVE ALL CONFLICTS PRIOR TO INCURRING ANY MATERIAL OR LABOR EXPENSES.
- COMPLY WITH THE MANUFACTURER'S TECHNICAL INSTRUCTIONS WHEN INSTALLING PLUMBING FIXTURES, MATERIALS, AND DEVICES.
- LOCATE FIXTURES AND EQUIPMENT GENERALLY AS SHOWN ON THE PLANS; HOWEVER, COORDINATE LOCATIONS WITH ACTUAL FIELD CONDITIONS TO PRESERVE ALL CODE-REQUIRED AND MANUFACTURER - REQUESTED SERVICE CLEARANCES.
- COORDINATE ROUTING OF ALL PIPING WITH BUILDING STRUCTURE AND WITH THE WORK OF OTHER TRADES. OFFSET VENT PIPING AROUND BEAMS AND JOISTS AS NECESSARY.
- ALL HANDICAP FIXTURES AND INSTALLATION OF HANDICAP FIXTURES SHALL CONFORM TO ADA REQUIREMENTS.
- AT EXTERIOR WALL, INSTALL WATER PIPING ON HEATED SIDE OF WALL INSULATION.
- PROVIDE WATER HAMMER ARRESTORS AT THE END OF EACH COLD AND HOT WATER BRANCH RISER. SIZE ARRESTOR APPROPRIATELY.
- PROVIDE CONCRETE RING FOR ALL EXTERIOR CLEAN-OUTS.
- REVIEW SITE PLAN FOR UTILITIES AND ORIENTATION PRIOR TO START OF WORK.
- G.C. TO PROVIDE ROOF PENETRATIONS.
- PROVIDE HTHW AT 140 DEGREES (F) AND LTHW AT 110 DEGREES (F).



1 EWH DETAIL
SCALE: NOT TO SCALE



2 RPZ HOT BOX DETAIL (TYP)
SCALE: NOT TO SCALE

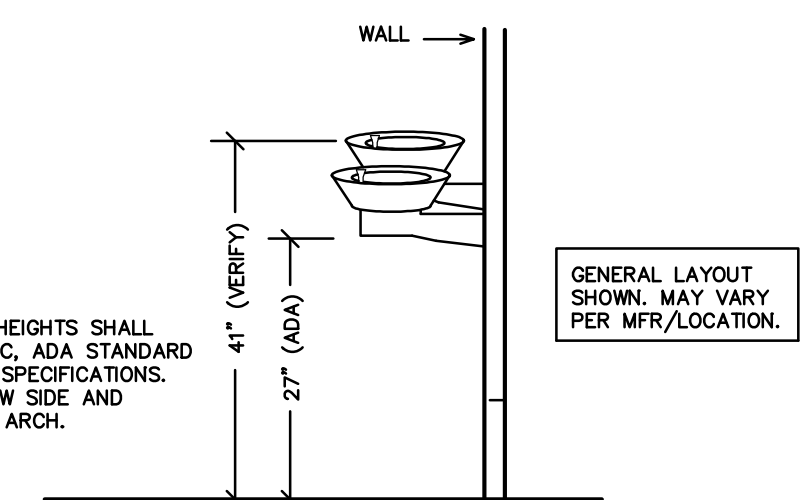
SYMBOL LEGEND - PLUMBING

SYMBOL	DESCRIPTION
---	WASTE PIPING (W)
----	VENT PIPING (V)
-----	COLD WATER PIPING (CW)
-----	HOT WATER PIPING (HW)
-----	HOT WATER RETURN PIPING (HWR)
-----	HIGH TEMPERATURE HW PIPING (HTHW) 140 DEG. F
-----	LOW TEMPERATURE HW PIPING (LTHW) 110 DEG. F
○ COFF	CLEANOUT FINISH FLOOR
⊥ WCO/HCO	WALL/HORIZONTAL CLEANOUT
⊕ COFG	CLEANOUT FINISH GRADE - PROVIDE FLUSH CONCRETE COLLAR AND BRONZE COVER
⊕	DIELECTRIC UNION
⊗	SHUT-OFF VALVE
⊘	CHECK VALVE
⊗	BALANCING VALVE
⊕	CIRCULATION PUMP (CP)
⊕	WATER METER (MTR)
⊕	VENT THRU ROOF (VTR)
⊕	FREEZE PROOF, HOSE BIBB (FPHB/HB)
⊕	POINT OF NEW CONNECTION TO EXISTING
⊕	THERMOSTATIC MIXING VALVE (TMV)

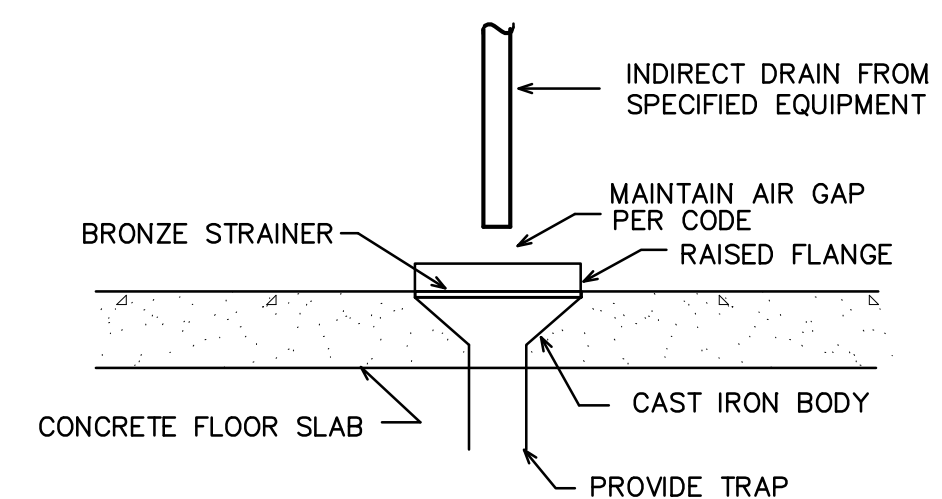
LOAD SUMMARY - PLUMBING

WASTE DEMAND (FU)	WATER DEMAND (FU)	WATER DEMAND (GPM)
60.0	93.5	65.4

A 2" CW SERVICE IS EXISTING.



3 DF DETAIL
SCALE: NOT TO SCALE



4 FDX DETAIL
SCALE: NOT TO SCALE

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Ben Burke
10/19/2016

STATE ID# 16-16033-01A
WBS ELEMENT 51213.011

PROJECT TITLE
**CHEROKEE COUNTY
REST AREA**

US 19 AND COVER STREET
ANDREWS, NORTH CAROLINA

PROJECT NO.
1504a

DRAWING TITLE
**PLUMBING
SPECIFICATIONS**

P1

PLOT DATE 10/18/16

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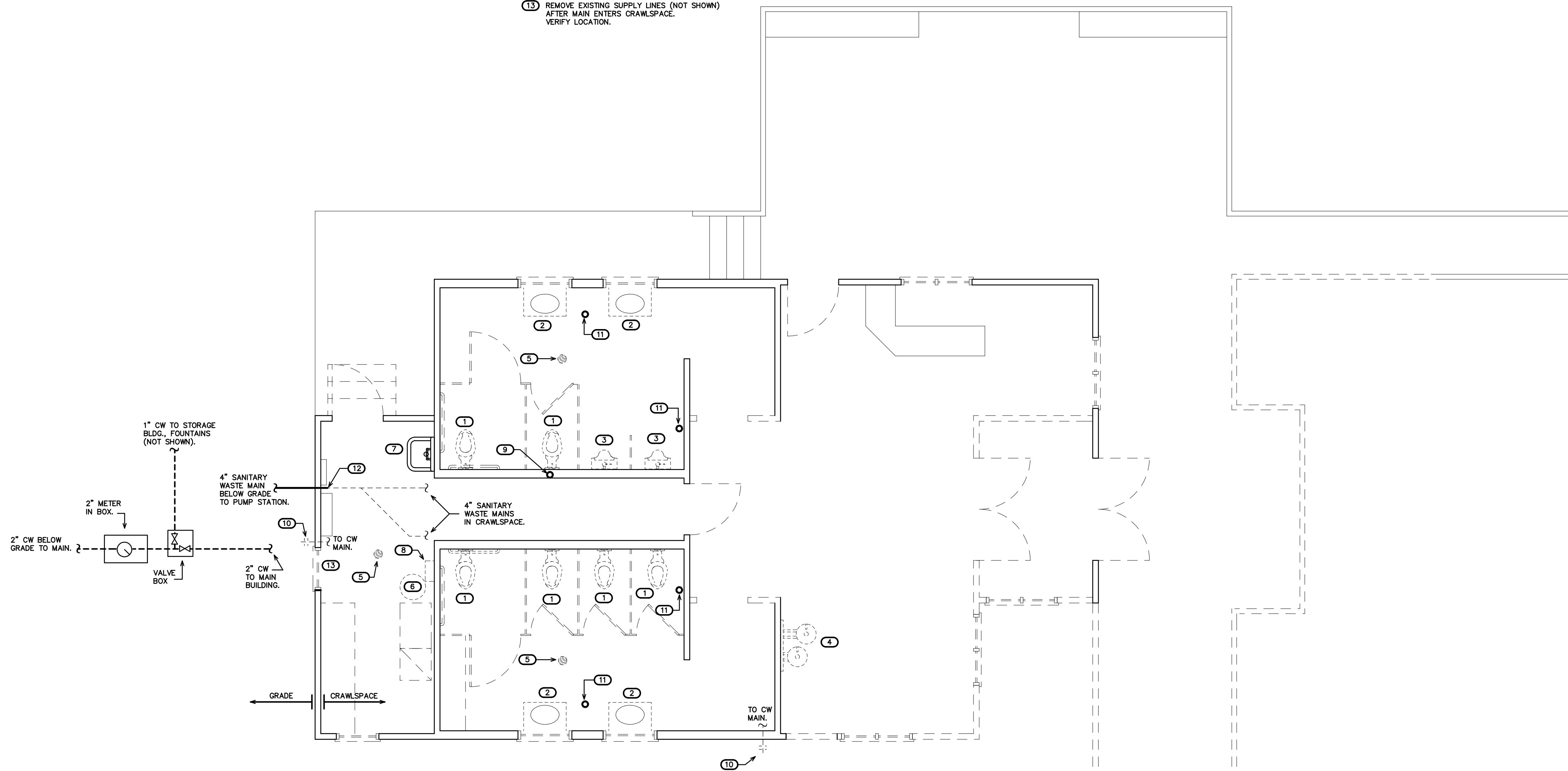
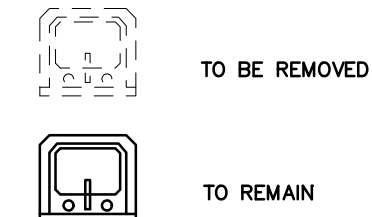
DEMO KEY NOTES FOR SHEET P2

- 1 WATER CLOSET TO BE REMOVED.
- 2 LAVATORY TO BE REMOVED.
- 3 URINAL TO BE REMOVED.
- 4 HI./LO DRINKING FOUNTAIN TO BE REMOVED.
- 5 FLOOR DRAIN TO BE REMOVED.
- 6 ELECTRIC WATER HEATER TO BE REMOVED.
- 7 SERVICE SINK TO REMAIN. RE-PIPE DWV, HW/CW PER DWV/SUPPLY PLANS.
- 8 REMOTE CHILLER (DRINKING FOUNTAIN) ON WALL TO BE REMOVED.
- 9 4" VENT/VTR TO BE REMOVED.
- 10 FPHB TO BE REMOVED.
- 11 COFF TO BE REMOVED.
- 12 REMOVE EXISTING DWV AFTER MAIN ENTERS CRAWLSPACE. VERIFY LOCATION.
- 13 REMOVE EXISTING SUPPLY LINES (NOT SHOWN) AFTER MAIN ENTERS CRAWLSPACE. VERIFY LOCATION.

NOTE:
THE EXISTING INFORMATION SHOWN ON THIS DRAWING IS FROM FIELD INVESTIGATION AND PREVIOUS PERMIT DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND FIELD VERIFYING ALL RELEVANT INFORMATION. THE SUBMISSION OF A BID INDICATES ACCEPTANCE OF EXISTING CONDITIONS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES NOTED.

THE SCOPE OF DEMOLITION IS AS FOLLOWS-
REMOVE ALL EXISTING INTERIOR DWV, HW/CW LINES. NEW LINES TO BE PROVIDED PER NEW DWV/SUPPLY PLANS. REMOVE EXISTING PLUMBING FIXTURES AS SHOWN IN DEMO AREA. PROVIDE CLEANOUTS ON ALL UNUSED DRAIN LINES AT FINAL FINISHES OR AS REQUIRED TO PREVENT DEAD-ENDS PER CODE. REMOVE UNUSED VENT LINES TO ABOVE CEILING AND CAP AT MAIN. REMOVE ALL UNUSED CW & HW LINES/STUB-OUTS, ETC., AND CAP LINES BEHIND FINAL FINISHES. REMOVE AND REPLACE ALL CONCRETE, WALL BOARD AND CEILINGS AS REQUIRED TO LOCATE EXISTING LINES/INSTALL NEW LINES. COORDINATE W/PLANS FOR ANY LINES TO BE REUSED. ALL EXISTING DWV AND SUPPLY ITEMS/LINES NOT SHOWN-VERIFY TO BE REPLACED/REMOVED, OR TO REMAIN.

THE PLUMBING CONTRACTOR SHALL TRACE ALL EXISTING DRAIN LINES PRIOR TO THE START OF WORK UTILIZING DYE AND/OR CAMERAS IF NECESSARY. PROVIDE AS-BUILT DRAWINGS FOR ENGINEER REVIEW. VERIFY LOCATION/INVERT REQUIREMENTS OF EXISTING DRAIN LINES PRIOR TO START OF WORK.



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

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STATE ID# 16-16033-01A
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PROJECT TITLE
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REST AREA
US 19 AND COVER STREET
ANDREWS, NORTH CAROLINA

PROJECT NO.
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DRAWING TITLE
EXISTING/DEMO
PLUMBING PLAN

P2

PLOT DATE 10/18/16

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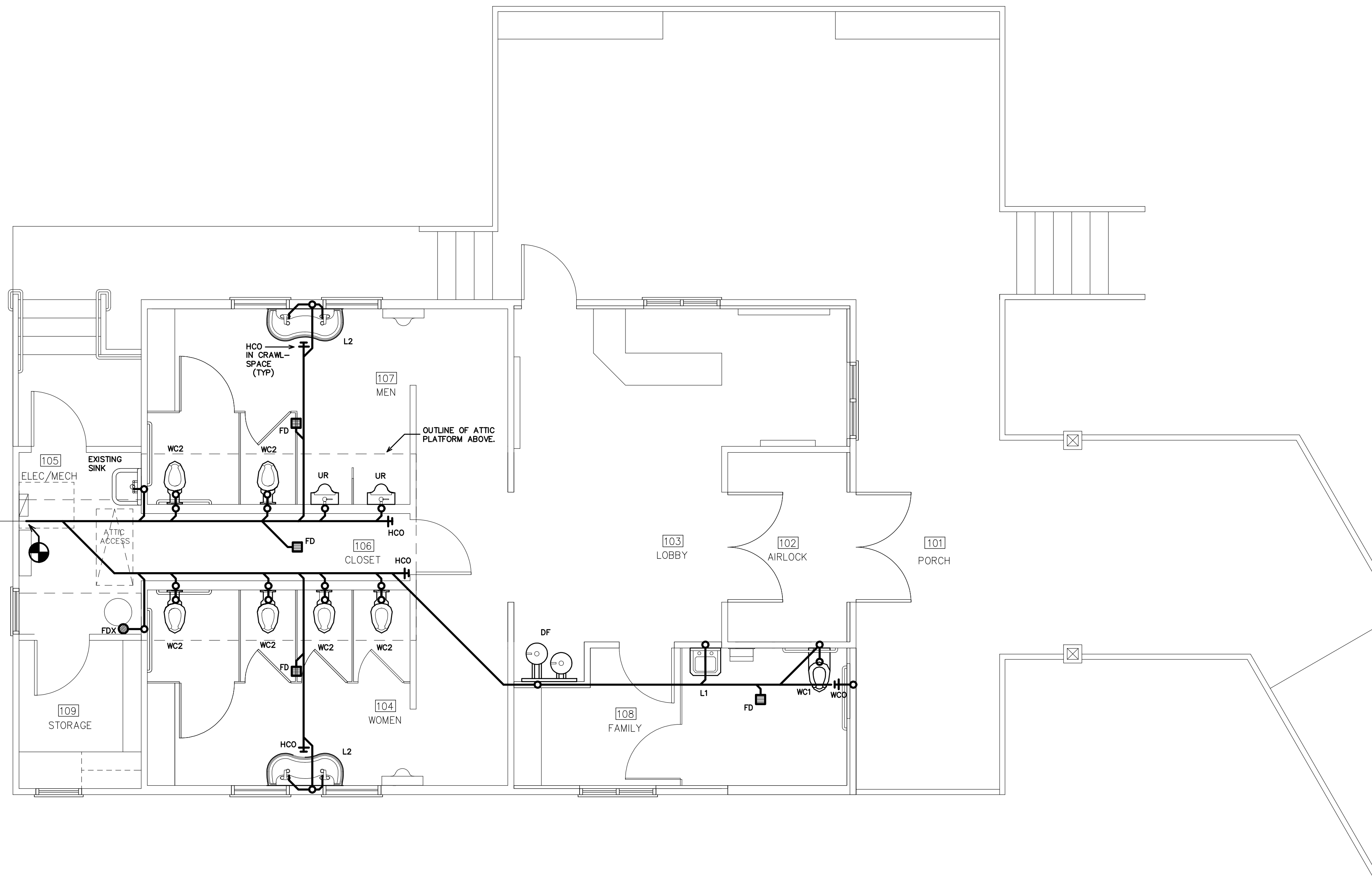
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REMOVE AND REPLACE ALL CONCRETE, WALL BOARD, CEILINGS, ETC., AS REQUIRED TO LOCATE EXISTING LINES AND INSTALL NEW LINES. RE-PIPE TO ALL NEW/EXISTING FIXTURES AS REQUIRED FOR PROPER OPERATION.

THE PLUMBING CONTRACTOR SHALL TRACE ALL EXISTING DRAIN LINES PRIOR TO THE START OF WORK UTILIZING DYE AND/OR CAMERAS IF NECESSARY. PROVIDE AS-BUILT DRAWINGS FOR ENGINEER REVIEW. VERIFY LOCATION/INVERT REQUIREMENTS OF EXISTING DRAIN LINES PRIOR TO START OF WORK.

NOTE:
VERIFY CLEANOUT ON EXISTING BUILDING DRAIN ON EXTERIOR. PROVIDE COFG IF/AS REQUIRED PER 2012 NCSBC-PLUMBING CODE SECTION 708.3.5.

EXISTING 4" SANITARY WASTE MAIN BELOW GRADE TO PUMP STATION.



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

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WBS ELEMENT 51213.011

PROJECT TITLE
**CHEROKEE COUNTY
REST AREA**
US 19 AND COVER STREET
ANDREWS, NORTH CAROLINA

PROJECT NO.
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DRAWING TITLE
**DWV
PLAN**

P3

PLOT DATE 10/18/16

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REMOVE AND REPLACE ALL CONCRETE, WALL BOARD, CEILINGS, ETC., AS REQUIRED TO LOCATE EXISTING LINES AND INSTALL NEW LINES. RE-PIPE TO ALL NEW/EXISTING FIXTURES AS REQUIRED FOR PROPER OPERATION.

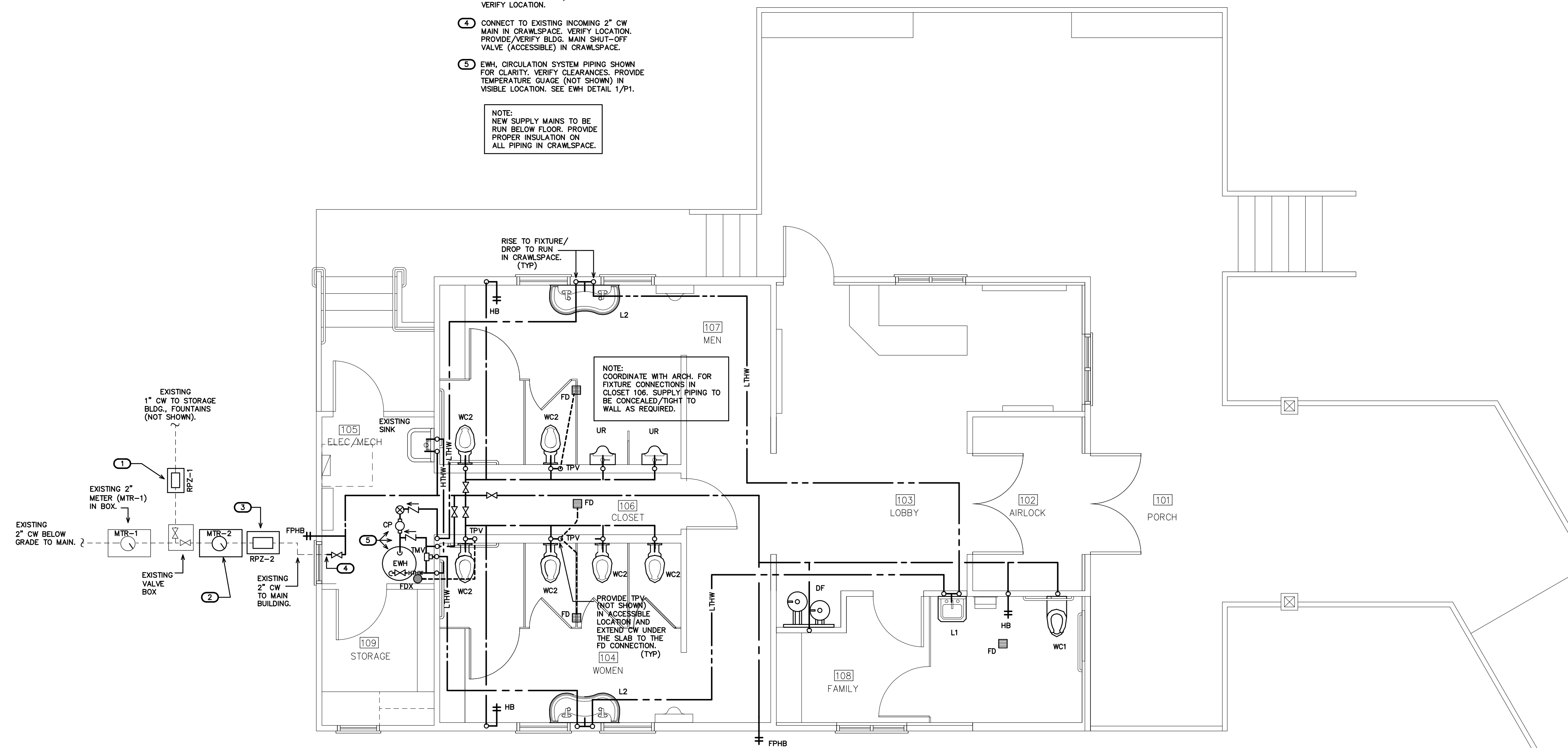
THE PLUMBING CONTRACTOR SHALL TRACE ALL EXISTING DRAIN LINES PRIOR TO THE START OF WORK UTILIZING DYE AND/OR CAMERAS IF NECESSARY. PROVIDE AS-BUILT DRAWINGS FOR ENGINEER REVIEW. VERIFY LOCATION/INVERT REQUIREMENTS OF EXISTING DRAIN LINES PRIOR TO START OF WORK.

NOTE:
VERIFY MOUNTING LOCATION OF HB, RELOCATED FPHB. COORDINATE W/ARCH. (TYP)

KEY NOTES FOR SHEET P4

- 1 INTERCEPT EXISTING 1" CW LINE AND PROVIDE RPZ-1 IN HOT BOX W/HEAT TRACING. VERIFY LOCATION.
- 2 INTERCEPT EXISTING 2" CW LINE AND PROVIDE METER (MTR-2) IN METER BOX. VERIFY LOCATION. CONNECT TO/RESUPPLY LINE TO BUILDING/PROVIDE NEW PIPING AS NEEDED. PROVIDE REMOTE READ COUNTER IN VISIBLE LOCATION IN ELEC/MECH 105 ROOM.
- 3 INTERCEPT EXISTING 2" CW LINE AND PROVIDE RPZ-2 IN HOT BOX W/HEAT TRACING. VERIFY LOCATION.
- 4 CONNECT TO EXISTING INCOMING 2" CW MAIN IN CRAWLSPACE. VERIFY LOCATION. PROVIDE/VERIFY BLDG. MAIN SHUT-OFF VALVE (ACCESSIBLE) IN CRAWLSPACE.
- 5 EWH. CIRCULATION SYSTEM PIPING SHOWN FOR CLARITY. VERIFY CLEARANCES. PROVIDE TEMPERATURE GAUGE (NOT SHOWN) IN VISIBLE LOCATION. SEE EWH DETAIL 1/P1.

NOTE:
NEW SUPPLY MAINS TO BE RUN BELOW FLOOR. PROVIDE PROPER INSULATION ON ALL PIPING IN CRAWLSPACE.



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

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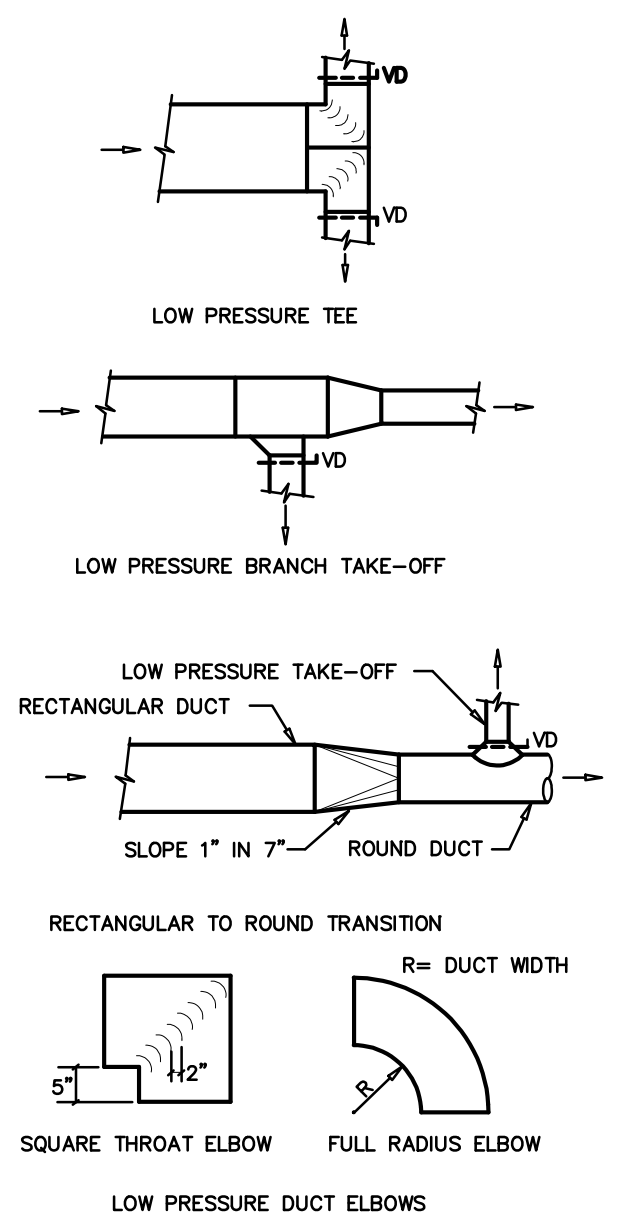
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**SUPPLY
PLAN**

P4

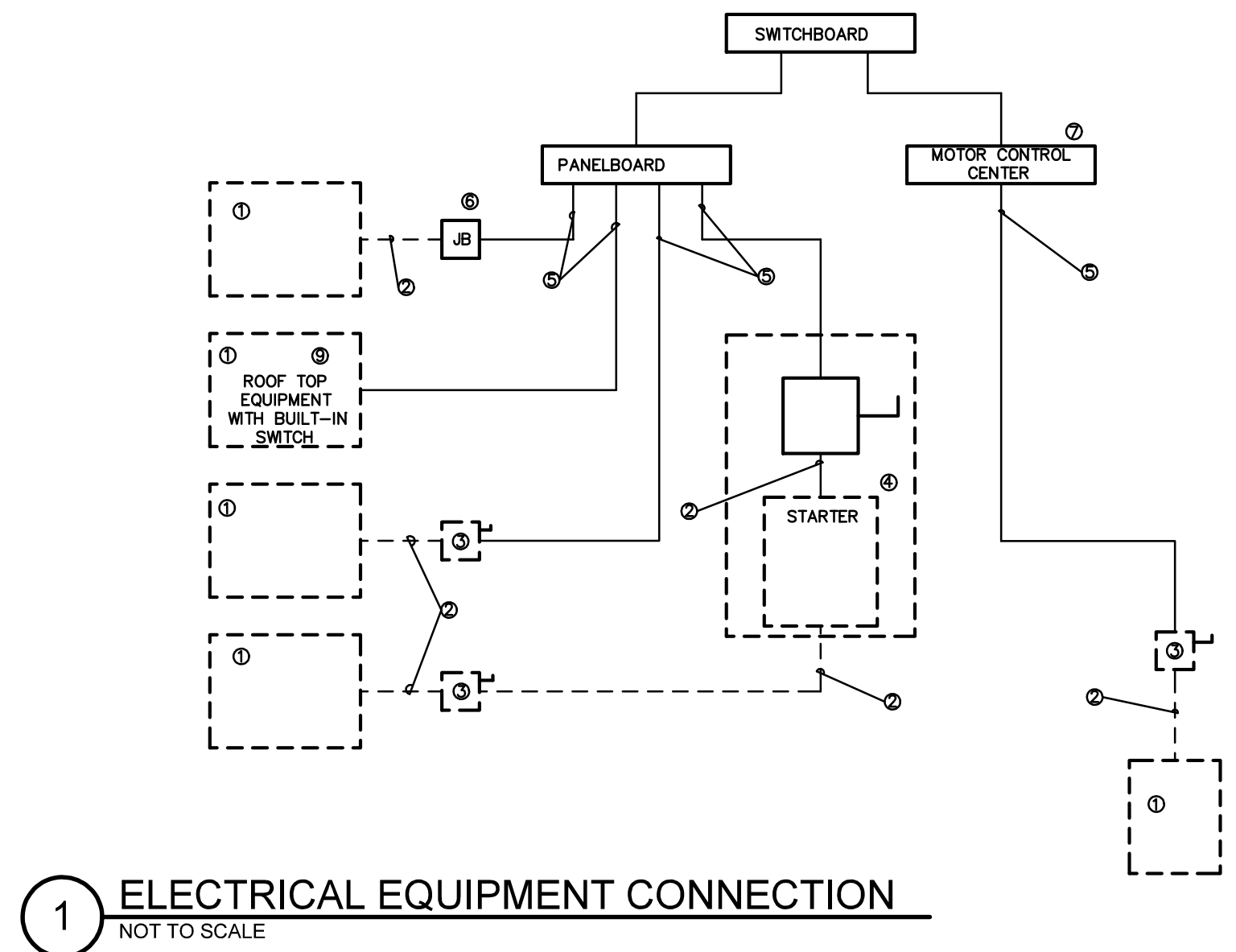
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2 DUCT CONSTRUCTION DETAILS
NOT TO SCALE



1 ELECTRICAL EQUIPMENT CONNECTION
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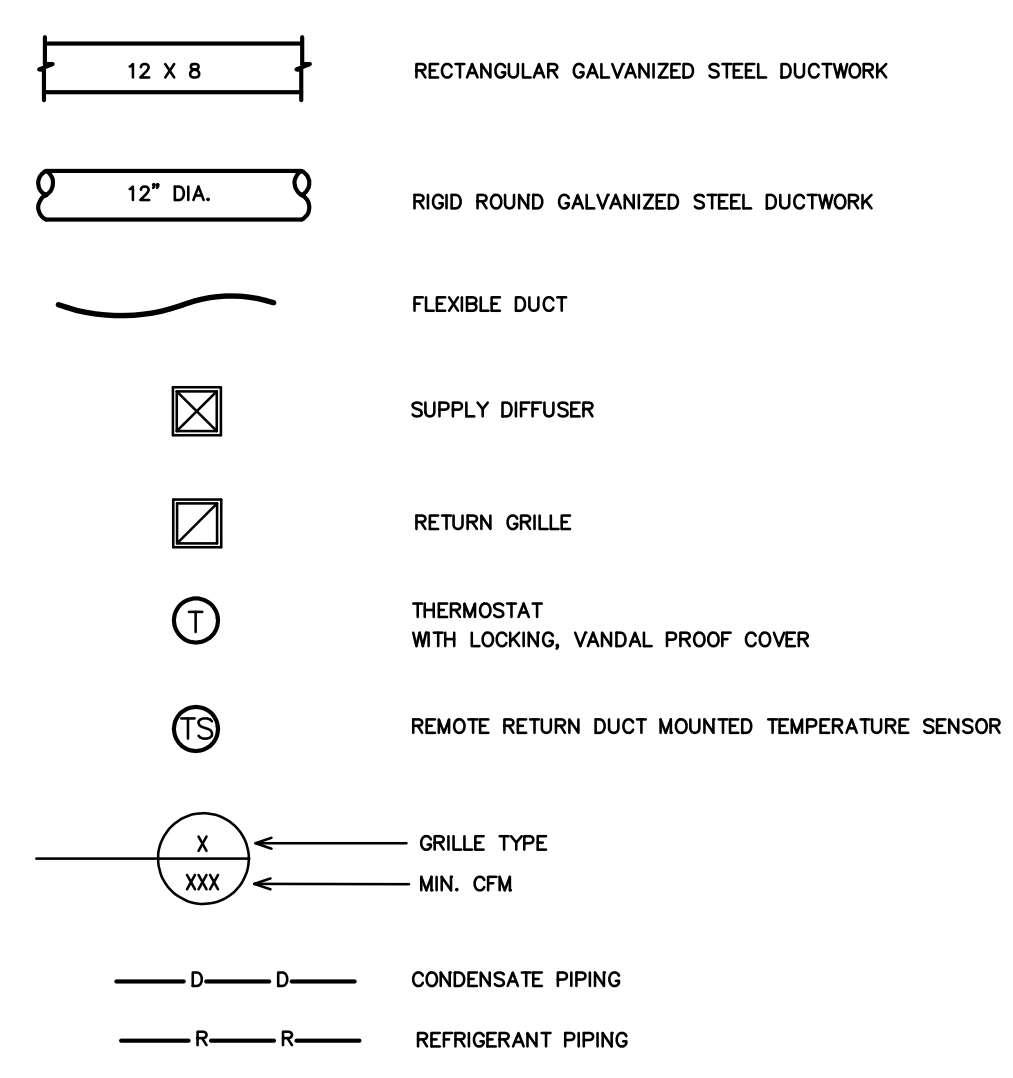
KEY NOTES FOR ELECTRICAL CONNECTION DRAWING 1/M1

- 1 EQUIPMENT OF TRADES OTHER THAN ELECTRICAL.
- 2 CONDUIT & WIRING BY HVAC PLUMBING CONTRACTOR, OR OTHER TRADES
- 3 IF AN ADDITIONAL DISCONNECT IS REQUIRED BY NEC/IT SHALL BE PROVIDED AND INSTALLED BY THE EQUIPMENT CONTRACTOR.
- 4 A COMBINATION STARTER OR VFD MAY BE USED IN LIEU OF A SEPARATE DISCONNECT SWITCH AND STARTER. LOCATE ADJACENT TO EQUIPMENT.
- 5 FEEDER CIRCUIT WIRING AND CONDUIT IN ELECTRICAL WORK. SEE PANELBOARD SCHEDULES FOR WIRE AND BREAKER SIZES.
- 6 JUNCTION BOX MAY BE SHOWN ON ELECTRICAL PLANS FOR SOME EQUIPMENT IF NO STARTER OR DISCONNECT IS SUPPLIED. A JUNCTION BOX SHALL BE INSTALLED ADJACENT TO EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE LINE SIDE WIRING TO THE JUNCTION BOX. LOAD SIDE WIRING WILL BE PROVIDED BY MECHANICAL CONTRACTOR OR OTHER TRADES.
- 7 PROJECTS UTILIZING AN MCC, THE STARTER, CB, OR VFD IN THE MCC ARE PROVIDED BY THE ELECTRICAL CONTRACTOR.
- 8 IN ALL CASES THE EQUIPMENT CONTRACTOR SHALL MAKE FINAL CONNECTIONS, START UP, AND TEST EQUIPMENT.
- 9 IF THE ROOF TOP EQUIPMENT IS NOT PROVIDED WITH BUILT IN SWITCH, THE ELECTRICAL CONTRACTOR SHALL PROVIDE A DISCONNECT SWITCH.
- 10 IN A SINGLE PRIME CONTRACT, IT IS THE RESPONSIBILITY OF THE PRIME CONTRACTOR TO COORDINATE BETWEEN THE ELECTRICAL AND OTHERS TRADES.

GENERAL NOTES - MECHANICAL

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE AND ALL LOCAL AND OTHER APPLICABLE CODES.
2. ANY PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID FOR BY THE MECHANICAL CONTRACTOR (MC).
3. ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMEN. THE MC SHALL COORDINATE ALL OF HIS WORK WITH THE GENERAL CONTRACTOR (GC) AND OTHER TRADES.
4. THE LOCATION OF ALL DUCT, PIPING AND EQUIPMENT SHALL BE ADJUSTED TO ACCOMMODATE ANTICIPATED OR ENCOUNTERED INTERFERENCES.
5. THESE PLANS ARE DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS. FOR DIMENSIONS REFER TO THE ARCHITECTURAL PLANS.
6. THE MC SHALL BE RESPONSIBLE FOR ALL ELECTRICAL STARTERS INTERLOCKS, CONTROL WIRING CONDUIT AND POWER WIRING FROM DISCONNECTS TO HIS EQUIPMENT, USING A LICENSED ELECTRICIAN.
7. THE MC SHALL USE FIRE DAMPERS FOR PROTECTION OF THE OPENING IN ACCORDANCE WITH STATE AND LOCAL CODES IN ALL LOCATIONS WHERE PENETRATIONS OF RATED WALLS AND FLOORS OCCUR. SEE ARCHITECTURAL PLANS FOR RATED WALL AND FLOOR LOCATIONS. PROVIDE ACCESS DOORS AT ALL DAMPER LOCATIONS. LOCATE DOORS FOR EASY ACCESS. THERE ARE NO RATED WALLS PENETRATED IN THIS HVAC UPFIT.
8. INSTALL FLEXIBLE CONNECTORS ON SUPPLY AND RETURN DUCTWORK AHU. ALL MECHANICAL EQUIPMENT SHALL OPERATE FREE OF OBJECTIONAL NOISE AND VIBRATION.
9. INSTALL TURNING VANES IN SUPPLY DUCTS AT ALL ELBOWS AND SPLITTER DAMPERS. PROVIDE BALANCING DAMPERS IN ALL DUCTS WHERE SHOWN OR REQUIRED FOR SYSTEM BALANCING. PROVIDE SPIN IN STARTING COLLARS WITH DAMPERS AT ALL SUPPLY TAKEOFFS.
10. DUCT DIMENSIONS ARE SHOWN INSIDE CLEAR. COORDINATE EXACT SIZE WITH SPACE AVAILABLE DUCT INSULATION SHALL BE 2" FIBERGLASS EXTERIOR DUCT INSULATION WITH FOIL FACING.
11. THERMOSTAT, WIRING AND CONDUIT ARE TO BE FURNISHED BY THE MC. MOUNT THERMOSTAT 48" ABOVE THE FINISHED FLOOR. COORDINATE LOCATION WITH OWNER. PROVIDE AUTO CHANGEOVER THERMOSTAT WITH UNIT OFF POSITION AS MINIMUM. PROVIDE AN EMERGENCY SHUT-OFF SWITCH ABOVE THE THERMOSTAT. PROPERLY LABEL SHUT-OFF SWITCH.
12. THE MC SHALL KEEP THE PREMISES CLEAR OF DEBRIS FROM HIS WORK DURING CONSTRUCTION AND LEAVE THE AREA AND BUILDING CLEAN AT THE COMPLETION OF HIS WORK. HE SHALL ALSO LEAVE CLEAN ALL EXPOSED EQUIPMENT IN HIS CONTRACT.
13. COORDINATE DIFFUSER AND CEILING EXHAUST GRILLE LOCATIONS WITH LIGHTS AND GRID. COORDINATE MOUNTING FRAME WITH CEILING TYPE.
14. THE M.C. SHALL COORDINATE WITH AND PROVIDE EQUIPMENT SPEC. SHEETS TO THE GENERAL AND ELECTRICAL CONTRACTORS FOR REVIEW PRIOR TO ORDERING EQUIPMENT.
15. PROPERLY SUPPORT FLEXIBLE DUCT, MINIMUM 75% DEFORMATION. PROVIDE SHEET METAL ELBOWS AT ALL 90 DEGREE BENDS.
16. ALL DUCT JOINTS SHALL BE SEALED AIRTIGHT WITH FIBER ENPREGNATED MASTIC OR HARDCAST AND TAPE.
17. SUPPORT AHU, EXHAUST FANS, HEAT WHEEL AND ALL DUCTWORK, ETC. FROM STRUCTURE. PIPE STRAPPING WILL NOT BE ALLOWED.

LEGEND - MECHANICAL



OUTDOOR AIR CALCULATIONS

OUTDOOR VENTILATION AIR PROVIDED PER TABLE 403.3, 2012 NORTH CAROLINA STATE BUILDING CODE MECHANICAL CODE.

APPLICATION	CFM/FLUSHING FIXTURE
TOILET ROOMS	70 CFM EACH
9 FLUSHING FIXTURES X 70 CFM = 630 CFM	
700 CFM EXHAUST PROVIDED BY 0 ERV	
APPLICATION	CFM/SQ.FT.
CORRIDORS/UTILITIES	0.06 CFM/SQ.FT.
655 SQ. FT. X 0.06 CFM/SQ.FT. = 39 CFM	
TOTAL OUTSIDE AIR REQUIRED - 669 CFM	
TOTAL OUTSIDE PROVIDED - 700 CFM	
AHU-1 / ERV-1 = 700 CFM PROVIDED	

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Cherokee City Rest Area M1

HVAC EQUIPMENT SCHEDULE

HVAC SYSTEM #1	
AHU #1 DIRECT EXPANSION FAN COIL UNIT	* CARRIER MODEL #FX4NFD42, 4 WAY, MULTIPOISE FAN COIL UNIT, 8 KW HEATER, NOMINAL CAPACITY = 42,000 BTU/hr, 1400 CFM NOMINAL. PROVIDE HARD SHUT-OFF TXV VALVE, 3.5 TON NOMINAL. PROVIDE PROGRAMMABLE THERMOSTAT AND FILTER RACK WITH HINGED DOOR, 1/2HP, 4.1A MOTOR FLA, 32A HEAT FLA, 240V, 1 PH, 44.7A MCA, 50A MOCOP AHU & HEAT.
HP #1 OUTDOOR HEAT PUMP UNIT	* CARRIER MODEL #25HCBS48A0030, 3.5 TON OUTDOOR HEAT PUMP UNIT, 15 SEER, PROVIDE CYCLE PROTECTOR, LOW PRESSURE SWITCH, CRANKCASE HEATER, 240 VOLT, 1 PHASE, COMP. 22.4A RLA, FAN 1.2A FLA, OUTDOOR HEAT PUMP 29.2A MCA, 45A MOCOP.

- * OR APPROVED EQUAL
- NOTE: 1. AHU HEATER KW RATINGS ARE AT 208 VOLTS.
2. PROVIDE OUTDOOR TSTAT TO PREVENT ELECTRIC HEAT OPERATION WHEN HEAT PUMP CAN MEET THE HEATING LOAD

AIR DISTRIBUTION SCHEDULE

MARK	* MANUFACTURER	MODEL NO.	SIZE	FACE SIZE	MATERIAL	SERVICE	NOTES
A	CARNES	SASM-40 W/ ROUND NECK OPTION	8" DIA	-	ALUMINUM	SUPPLY	COLOR BY ARCHITECT GYP CEILING MOUNT
RA	CARNES	RAJBH	16" X 14"	18" X 16"	ALUMINUM	RETURN	COLOR BY ARCHITECT SIDE WALL MOUNT
EA	CARNES	RATAF	12" X 12" 10" ROUND NECK **	14" X 14"	ALUMINUM	EXHAUST	COLOR BY ARCHITECT GYP CEILING MOUNT
EB	CARNES	RATAF	10" X 10" 8" ROUND NECK **	12" X 12"	ALUMINUM	EXHAUST	COLOR BY ARCHITECT GYP CEILING MOUNT

COORDINATE BORDER TYPE WITH THE CEILING/WALL TYPE. SEE ARCH SHEETS PROVIDE DUCT TRANSITIONS AS REQUIRED.

* OR APPROVED EQUAL BY TUTTLE & BAILEY, OR METALAIR

** PROVIDE SQUARE TO ROUND DUCT TRANSITION ON TOP OF GRILLE. PROVIDE INSULATION PACKAGE FOR TOP OF ALL DIFFUSERS AND GRILLES

ENERGY RECOVERY UNIT SCHEDULE

EQUIP. NUMBER	MODEL NO.	FLOW	THERMAL PERFORMANCE													NOTES:		
			FANS / MOTORS						DESIGN CONDITIONS				ERV OUTLET CONDITIONS		ENERGY RECOVERY (THERMAL) CAPACITY			
			STATIC PRESSURE (EXTERNAL)	FAN MOTORS	FLA (FAN UNIT SINGLE POINT)	VOLTS/ PHASE/ HZ	MCA	FUSE/CB MAX	OUTSIDE AIR TEMP (F) & HUMIDITY (DB) / (WB OR RH)	ROOM AIR TEMP (F) & HUMIDITY (DB) / (WB OR RH)	LEAVING AIR TEMP (F) & HUMIDITY (DB) / (WB)	COOLING CAPACITY (MBH / TON)	HEATING CAPACITY (MBH)	TOTAL	TOTAL			
ERV-1	MICROMETL FWH11H69000HEF	700 CFM	0.50IN H ₂ O (2) FOR FANS	14.76 A	208-230V 1 PH 60 HZ	18.45	25	SUMMER	WINTER	SUMMER	WINTER	SUMMER	WINTER	SUMMER	WINTER	9.6 / 0.8	21.5	ALL

- NOTES:
1. FLOW & LOADS BASED ON ARI-1060 PERFORMANCE & CERTIFIED CORE.
 2. NOT USED.
 3. VENTILATION TYPE: STATIC PLATE, HEAT & HUMIDITY TRANSFER.
 4. INCLUDE INTEGRAL DISPOSABLE FILTERS (OUTSIDE AND ROOM AIR) WITH MERV8 OR BETTER RATING.
 5. INCLUDE SINGLE POINT ELECTRICAL POWER CONNECTION.
 6. HOUSING SHALL BE GALVANIZED, .20 GAUGE (OR THICKER) STEEL WITH LAPPED CORNERS.
 7. OR EQUALS BY SEMCO, OR THYBAR.
 8. SERVICE ACCESS DOORS SHALL BE GASKETED & PROVIDE ACCESS FOR MAINTENANCE OF ALL COMPONENTS.
 9. INCLUDE INSULATION ON ALL CASE WALLS & DOORS.
 10. INCLUDE THERMALLY PROTECTED MOTORS WITH STARTERS.
 11. UL LISTED 1995
 12. PROVIDE WITH FUSED DISCONNECT SWITCH.

MECHANICAL SYSTEMS AND EQUIPMENT

METHOD OF COMPLIANCE:

Prescriptive Energy Cost Budget

Thermal Zone 4A

Exterior Design Conditions

winter dry bulb 11 F
summer dry bulb 88 F

Interior Design Conditions

winter dry bulb 72 F
summer dry bulb 75 F
relative humidity 50%

Building Heating Load 50,900 BTU/hr
-21,500 BTU/hr (heat wheel reduction)
29,400 BTU/hr

Building Cooling Load 37,400 BTU/hr
-96,00 BTU/hr (heat wheel reduction)
27,800 BTU/hr

Mechanical Spacing Conditioning System

Unitary - The building is served by (1) one 3.5 ton split system heat pump unit with with (1) one energy recovery ventilator.

Boiler - Not applicable to this project.
Chiller - Not applicable to this project.

Equipment efficiencies
Efficiencies and outputs are listed on equipment schedules - See drawings.

Equipment schedules with motors.
Motors used on this project are included in the efficiency rating of the unit. See drawings for efficiencies.

STATE ID# 16-16033-01A
WBS ELEMENT 51213.011

PROJECT TITLE
CHEROKEE COUNTY
REST AREA

US 19 AND COVER STREET
ANDREWS, NORTH CAROLINA

PROJECT NO.
1504a

DRAWING TITLE
HVAC
SCHEDULES

PLOT DATE 10/18/16

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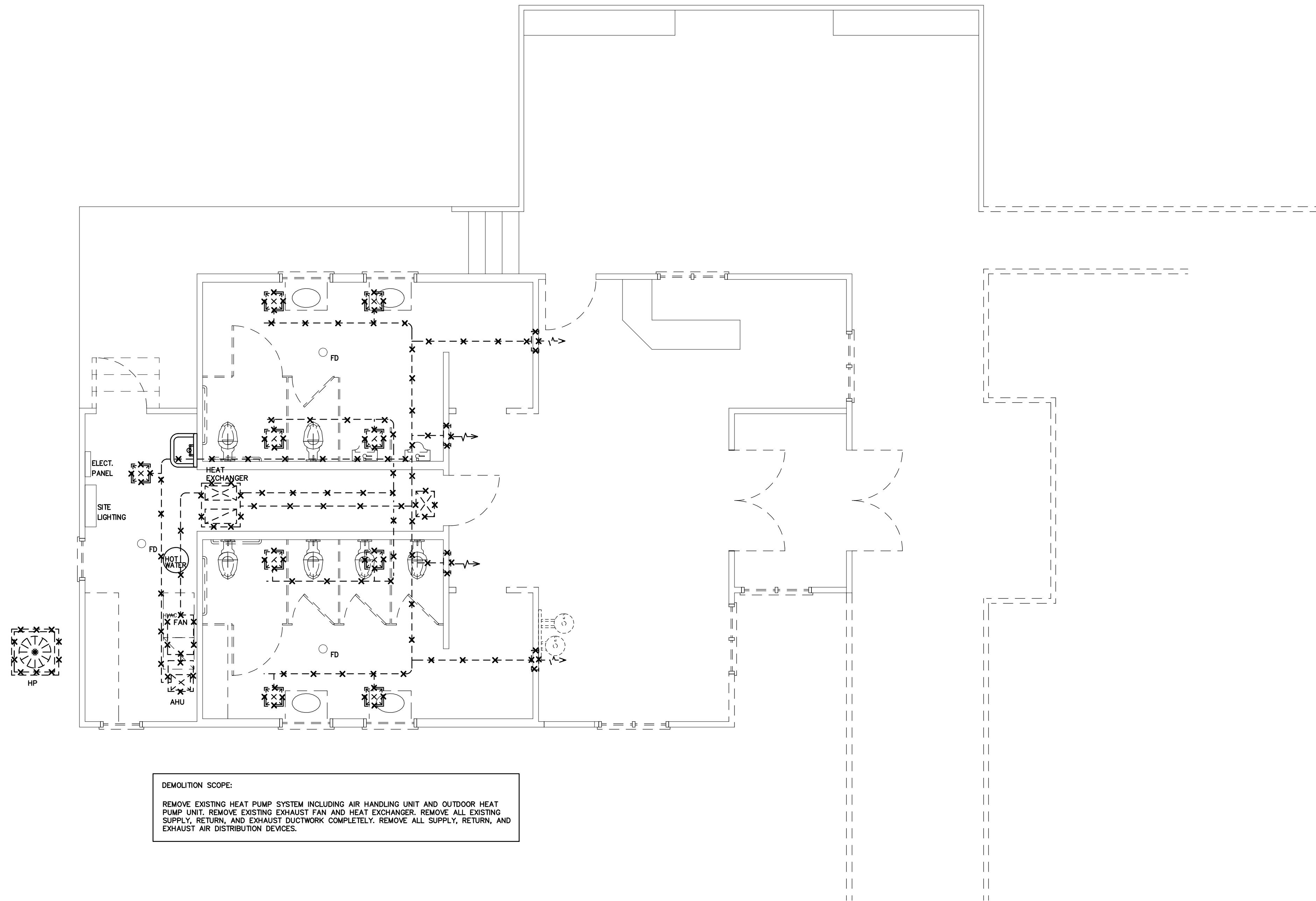
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DEMOLITION SCOPE:
REMOVE EXISTING HEAT PUMP SYSTEM INCLUDING AIR HANDLING UNIT AND OUTDOOR HEAT PUMP UNIT. REMOVE EXISTING EXHAUST FAN AND HEAT EXCHANGER. REMOVE ALL EXISTING SUPPLY, RETURN, AND EXHAUST DUCTWORK COMPLETELY. REMOVE ALL SUPPLY, RETURN, AND EXHAUST AIR DISTRIBUTION DEVICES.

1 EXISTING/DEMO HVAC PLAN
SCALE: 1/4" = 1'-0"

STATE ID# 16-16033-01A
WBS ELEMENT 51213.011

PROJECT TITLE
**CHEROKEE COUNTY
REST AREA**
US 19 AND COVER STREET
ANDREWS, NORTH CAROLINA

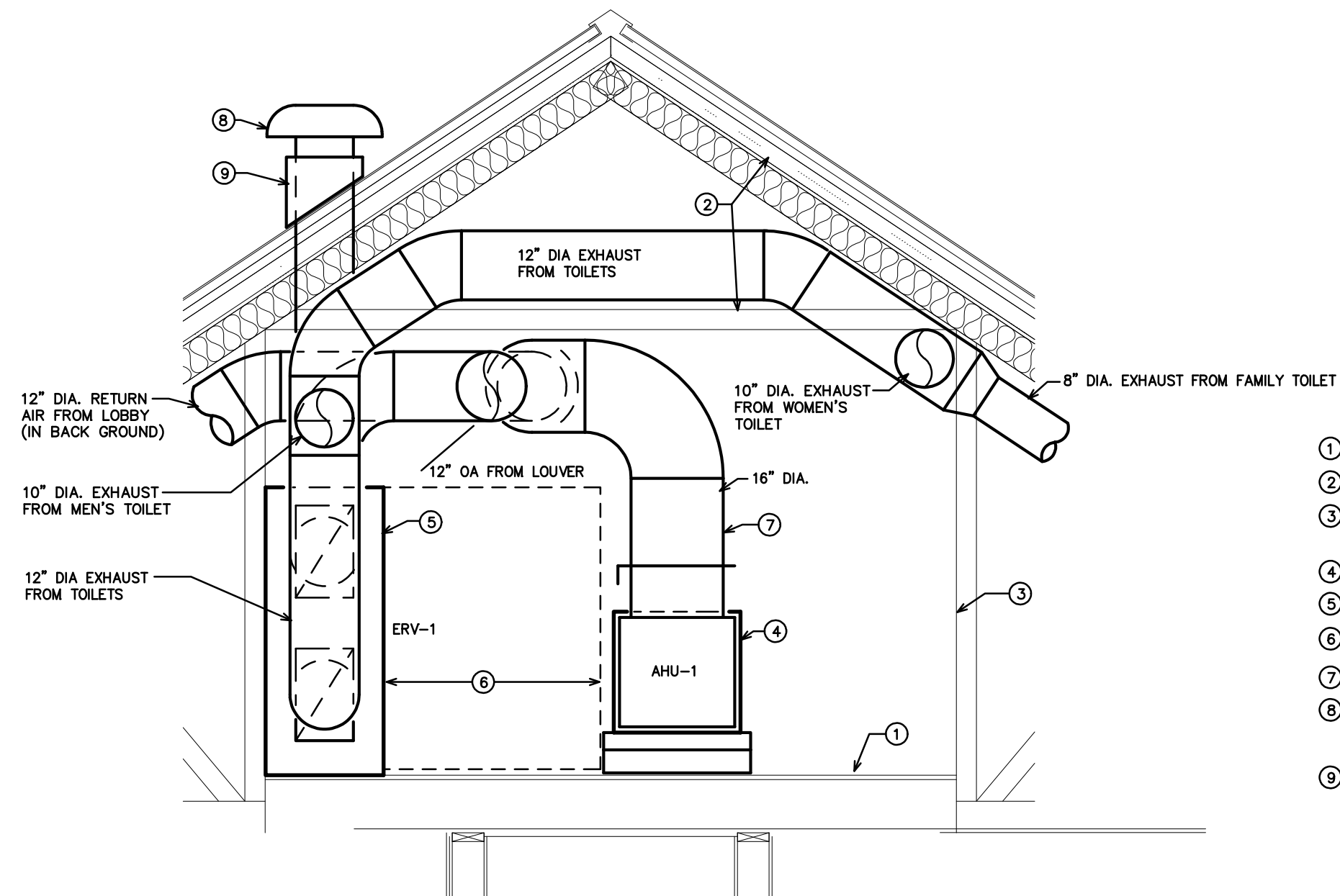
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**EXISTING/DEMO
HVAC PLAN**



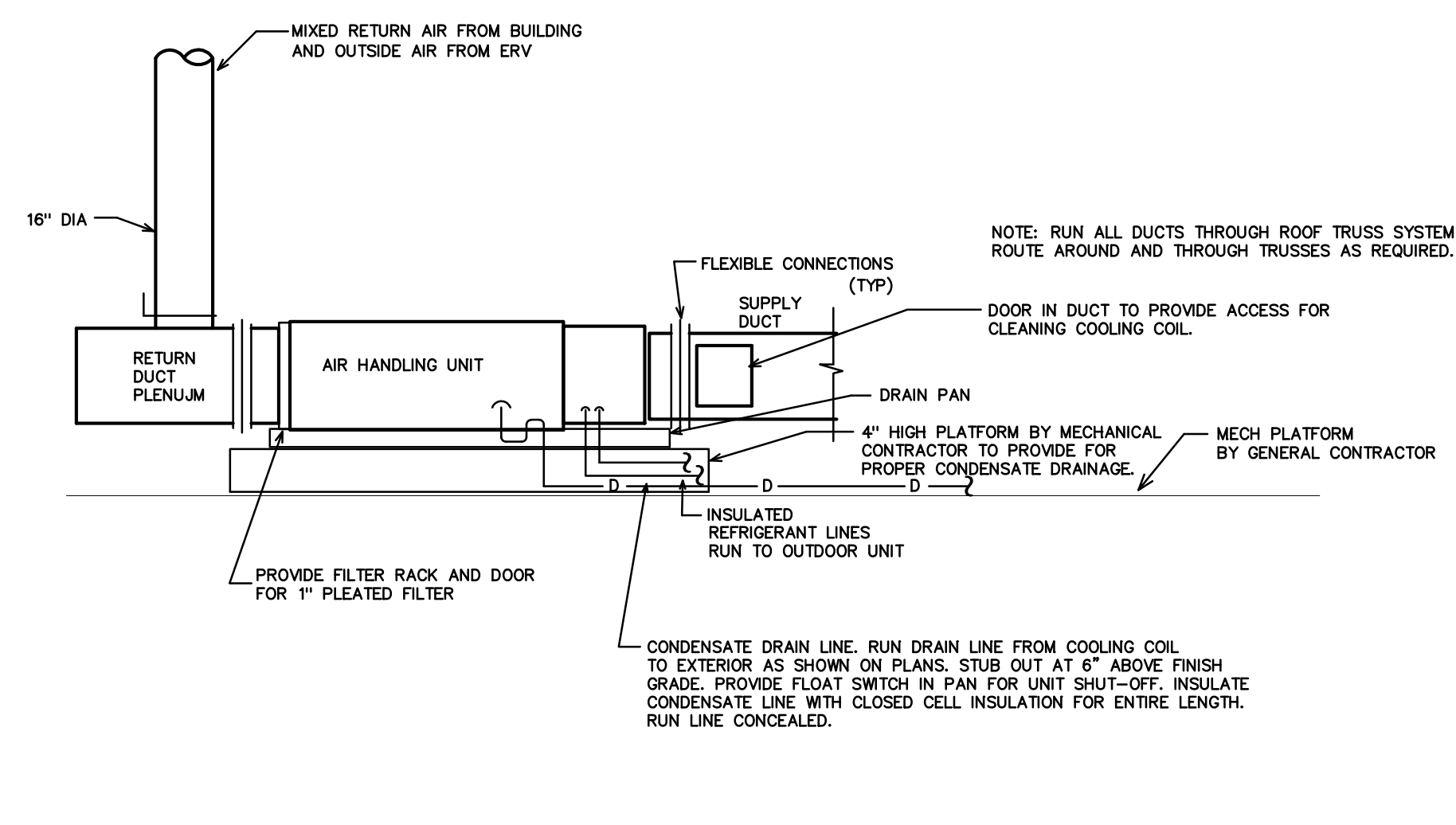
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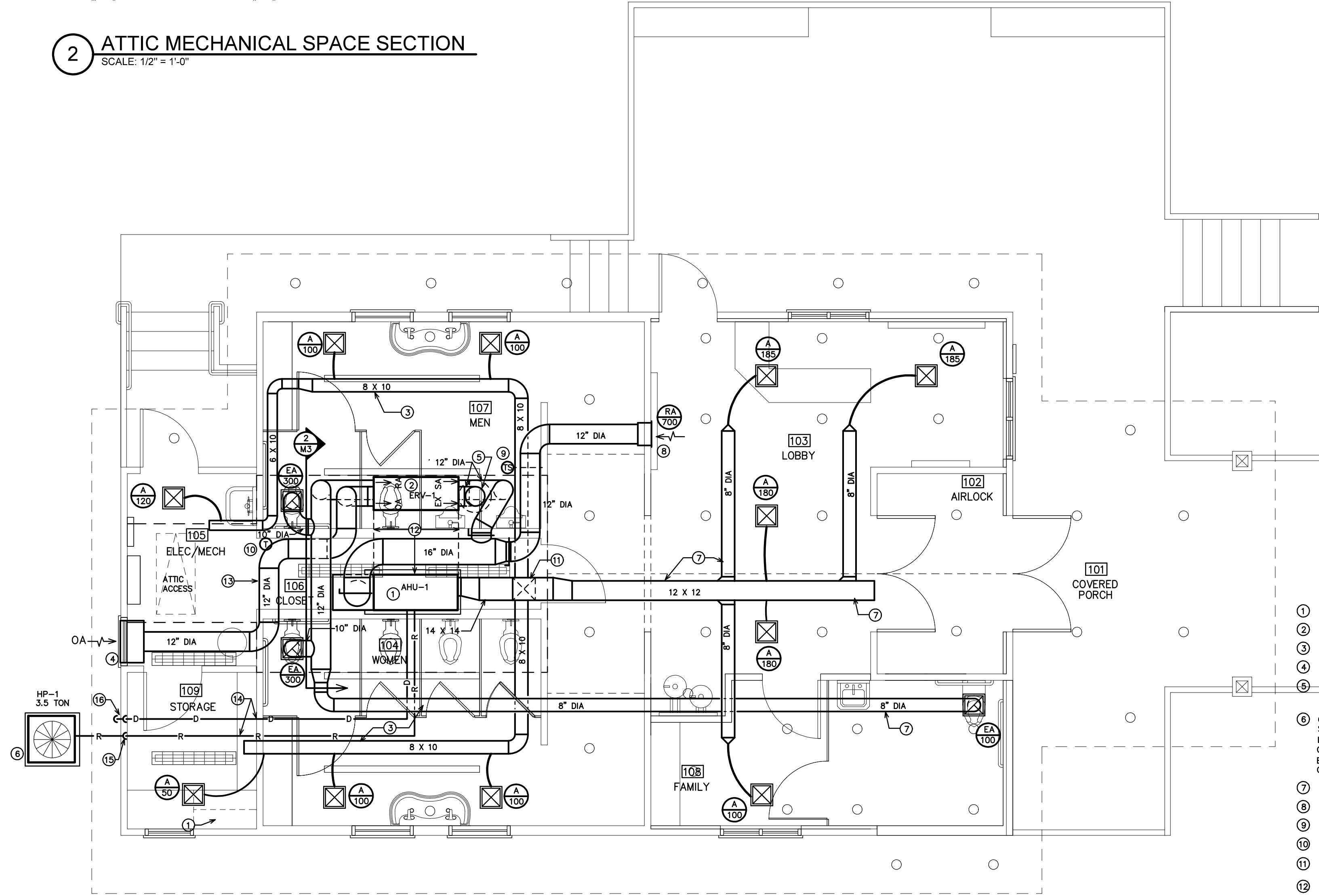


2 ATTIC MECHANICAL SPACE SECTION
SCALE: 1/2" = 1'-0"

- KEY NOTES FOR 2/M3
- 1 ATTIC MECHANICAL PLATFORM BY GENERAL CONTRACTOR.
 - 2 ROOF STRUCTURE.
 - 3 42" WOODEN GUARDS ALL AROUND MECHANICAL PLATFORM PER NCSBC, MECHANICAL CODE SECTION 304.11. GUARDS BY GENERAL CONTRACTOR.
 - 4 AIR HANDLING UNIT (RETURN AIR END VIEW) MOUNTED ON ATTIC MECHANICAL PLATFORM. SEE DETAIL 3/M3.
 - 5 ENERGY RECOVERY VENTILATOR MOUNTED ON ATTIC MECHANICAL PLATFORM.
 - 6 40" FROM ACCESS SIDE FACTORY REQUIRED SERVICE CLEARANCE FOR ERV.
 - 7 16" DIA. DUCT WITH MIXED RETURN AIR FROM BUILDING AND OUTSIDE AIR FORM ERV.
 - 8 ROOF MOUNTED OUTSIDE AIR INTAKE HOOD, HOOD SHALL BE EQUAL TO CARNES MODEL G5AA, SIZE 12", INTAKE SHALL BE 10"-0" MIN. FROM ANY EXHAUST DISCHARGE OR PLUMBING VENT.
 - 9 ROOF CURB.

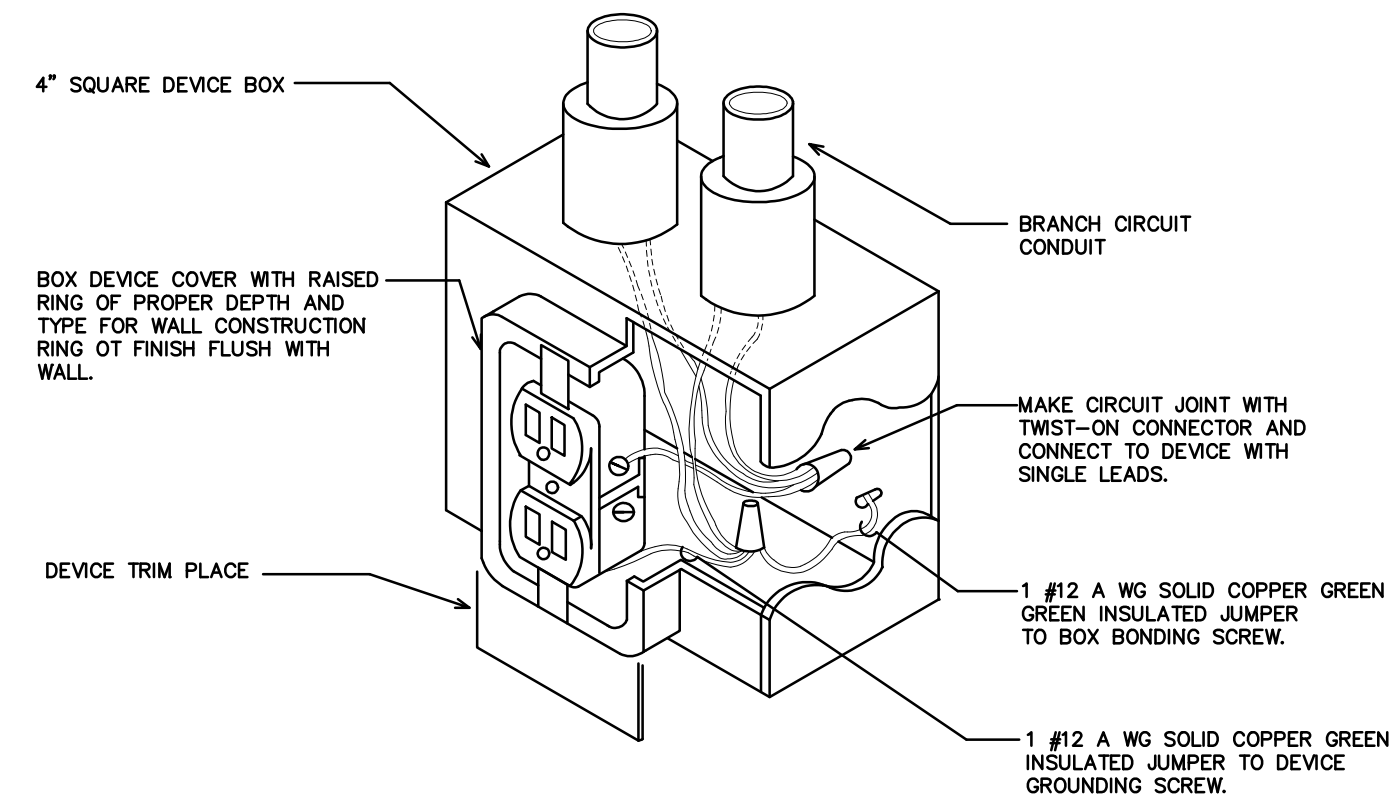


3 HORIZONTAL AIR HANDLING UNIT DETAIL
NOT TO SCALE



1 REVISED HVAC PLAN
SCALE: 1/4" = 1'-0"

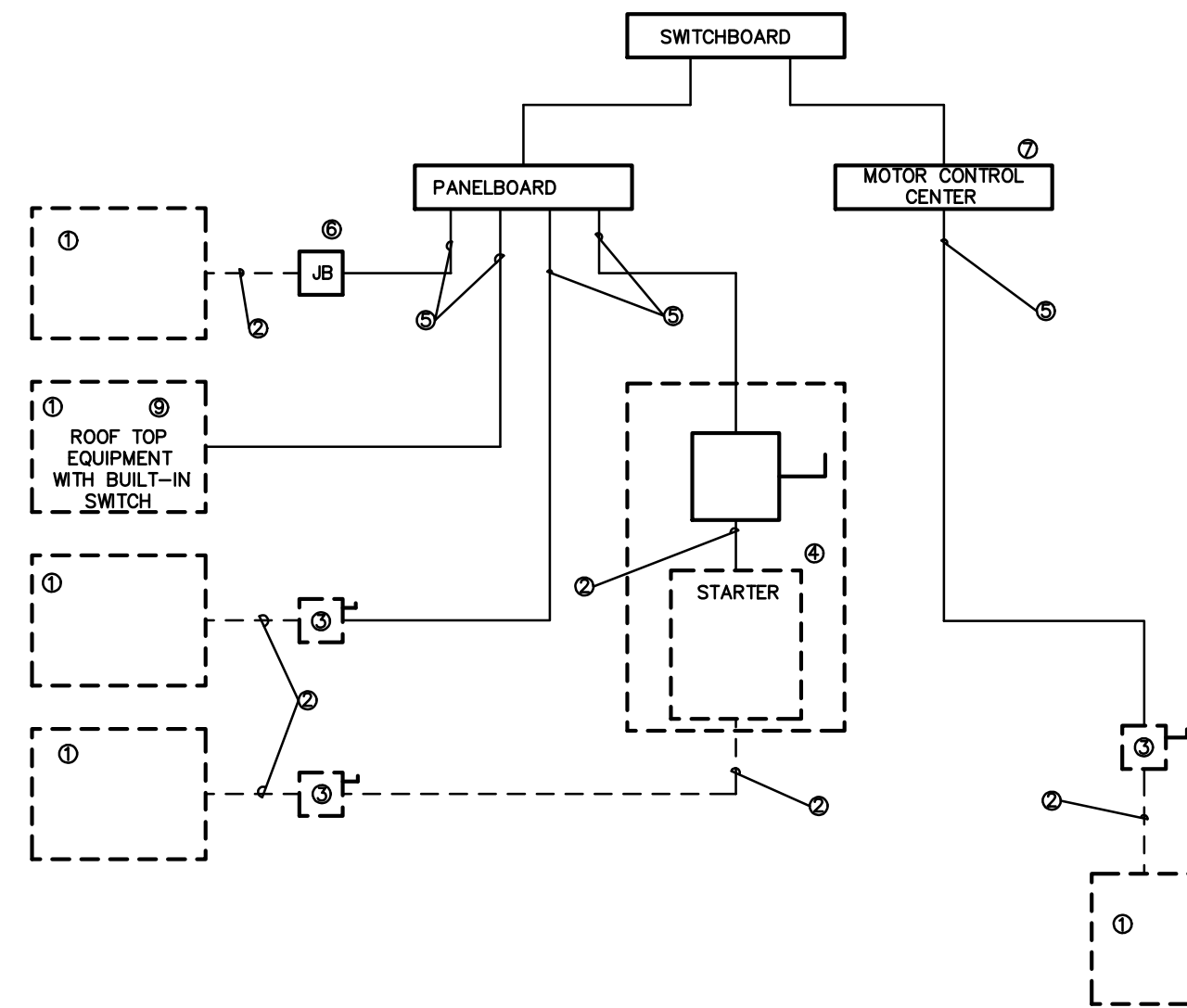
- KEY NOTES FOR SHEET 1/M3
- 1 AIR HANDLING UNIT IN ATTIC MECHANICAL SPACE. SEE DETAIL 2/M3 AND 3/M3.
 - 2 ERV IN ATTIC MECHANICAL SPACE. SEE SECTION 2/M3.
 - 3 RUN DUCTWORK CONCEALED IN ATTIC SPACE. (TYPICAL)
 - 4 OUTSIDE AIR LOUVER BY GENERAL CONTRACTOR.
 - 5 ROOF MOUNTED EXHAUST DISCHARGE HOOD, HOOD SHALL BE EQUAL TO CARNES MODEL G5AA, SIZE 12" DIA. DISCHARGE SHALL BE 10"-0" MIN. FROM ANY OUTSIDE AIR INTAKE.
 - 6 OUTDOOR HEAT PUMP UNIT MOUNTED ON WOODEN PLATFORM THAT SHALL BE 24" ABOVE FINISH GRADE, GRADE LEVEL AT THE UNIT LOCATION IS ABOVE BASE FLOOD ELEVATION. PLATFORM PROVIDED BY GENERAL CONTRACTOR. GUARDS RAILS NOT REQUIRED ON PLATFORM BECAUSE IT IS LESS THAN 30" ABOVE GRADE PER NCSBC, MECHANICAL CODE, SECTION 304.11.
 - 7 RUN DUCTWORK IN SCISSOR TRUSS.
 - 8 HIGH SIDEWALL MOUNTED RETURN AIR GRILLE.
 - 9 RETURN AIR DUCT MOUNTED REMOTE TEMPERATURE SENSOR.
 - 10 WALL MOUNTED THERMOSTAT. MOUNT AT 48" AFF.
 - 11 RISE TO RUN THROUGH WEB OF SCISSOR TRUSS.
 - 12 FACTORY REQUIRED SERVICE CLEARANCE FOR ERV.
 - 13 SEE 2/M3 FOR SECTION OF ATTIC MECHANICAL SPACE.
 - 14 RUN PIPING CONCEALED IN ATTIC SPACE. (TYPICAL).
 - 15 RUN REFRIGERANT PIPING DOWN CONCEALED IN EXTERIOR WALL.
 - 16 RUN CONDENSATE PIPING DOWN CONCEALED IN EXTERIOR WALL. STUB-OUT AT 8" ABOVE FINISH GRADE AND TERMINATE WITH ELBOW TURNED DOWN IN PLANTED AREA.



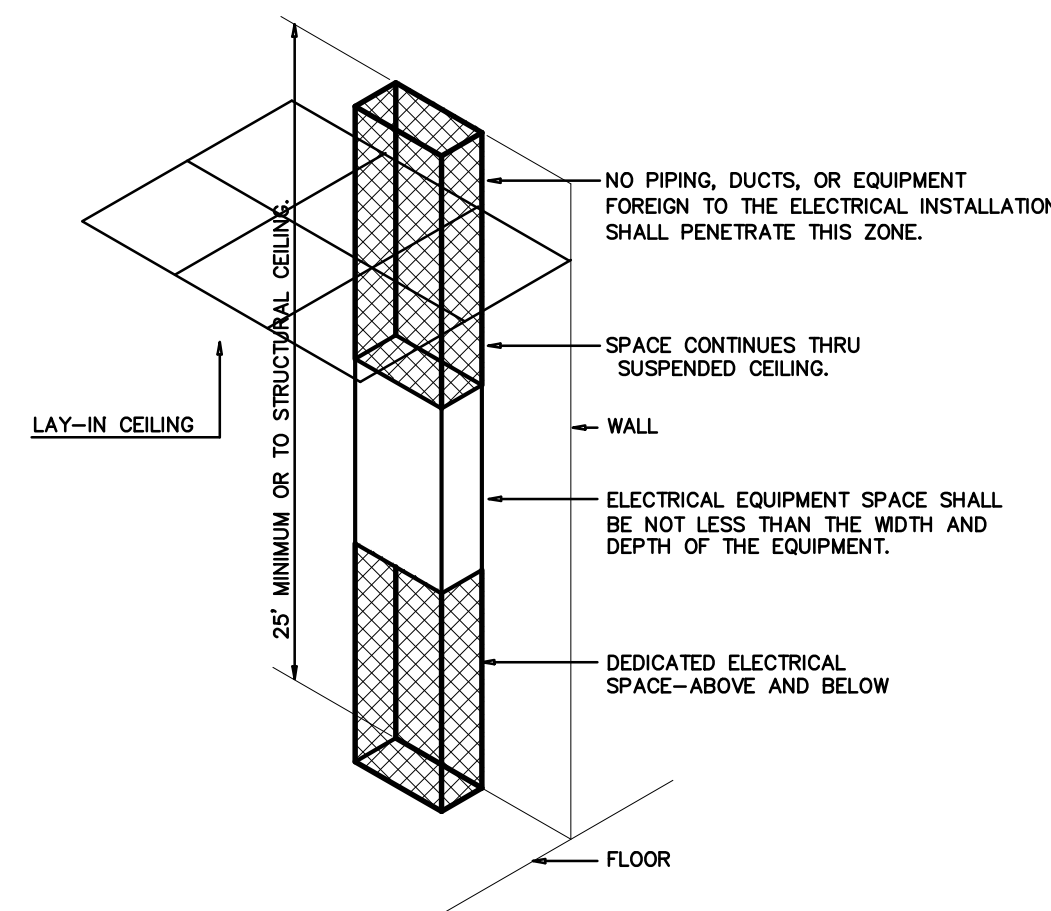
1 RECEPTACLE GROUNDING DETAIL
NOT TO SCALE

ELECTRICAL NOTES

- ① EQUIPMENT OF TRADES OTHER THAN ELECTRICAL.
- ② CONDUIT & WIRING BY HVAC PLUMBING CONTRACTOR, OR OTHER TRADES
- ③ IF AN ADDITIONAL DISCONNECT IS REQUIRED BY NEC, IT SHALL BE PROVIDED AND INSTALLED BY THE EQUIPMENT CONTRACTOR.
- ④ A COMBINATION STARTER OR VFD MAY BE USED IN LIEU OF A SEPARATE DISCONNECT SWITCH AND STARTER. LOCATE ADJACENT TO EQUIPMENT.
- ⑤ FEEDER CIRCUIT WIRING AND CONDUIT IN ELECTRICAL WORK. SEE PANELBOARD SCHEDULES FOR WIRE AND BREAKER SIZES.
- ⑥ JUNCTION BOX MAY BE SHOWN ON ELECTRICAL PLANS FOR SOME EQUIPMENT IF NO STARTER OR DISCONNECT IS SUPPLIED. A JUNCTION BOX SHALL BE INSTALLED ADJACENT TO EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE LINE SIDE WIRING TO THE JUNCTION BOX. LOAD SIDE WIRING WILL BE PROVIDED BY MECHANICAL CONTRACTOR OR OTHER TRADES.
- ⑦ PROJECTS UTILIZING AN MCC, THE STARTER, CB, OR VFD IN THE MCC ARE PROVIDED BY THE ELECTRICAL CONTRACTOR.
- ⑧ IN ALL CASES THE EQUIPMENT CONTRACTOR SHALL MAKE FINAL CONNECTIONS, START UP, AND TEST EQUIPMENT.
- ⑨ IF THE ROOF TOP EQUIPMENT IS NOT PROVIDED WITH BUILT IN SWITCH, THE ELECTRICAL CONTRACTOR SHALL PROVIDE A DISCONNECT SWITCH.
- ⑩ IN A SINGLE PRIME CONTRACT, IT IS THE RESPONSIBILITY OF THE PRIME CONTRACTOR TO COORDINATE BETWEEN THE ELECTRICAL AND OTHERS TRADES.



2 ELECTRICAL EQUIPMENT CONNECTION
NOT TO SCALE



ELECTRICAL EQUIPMENT DEDICATED SPACE PER ARTICLE 110.26.F.1 OF N.E.C.

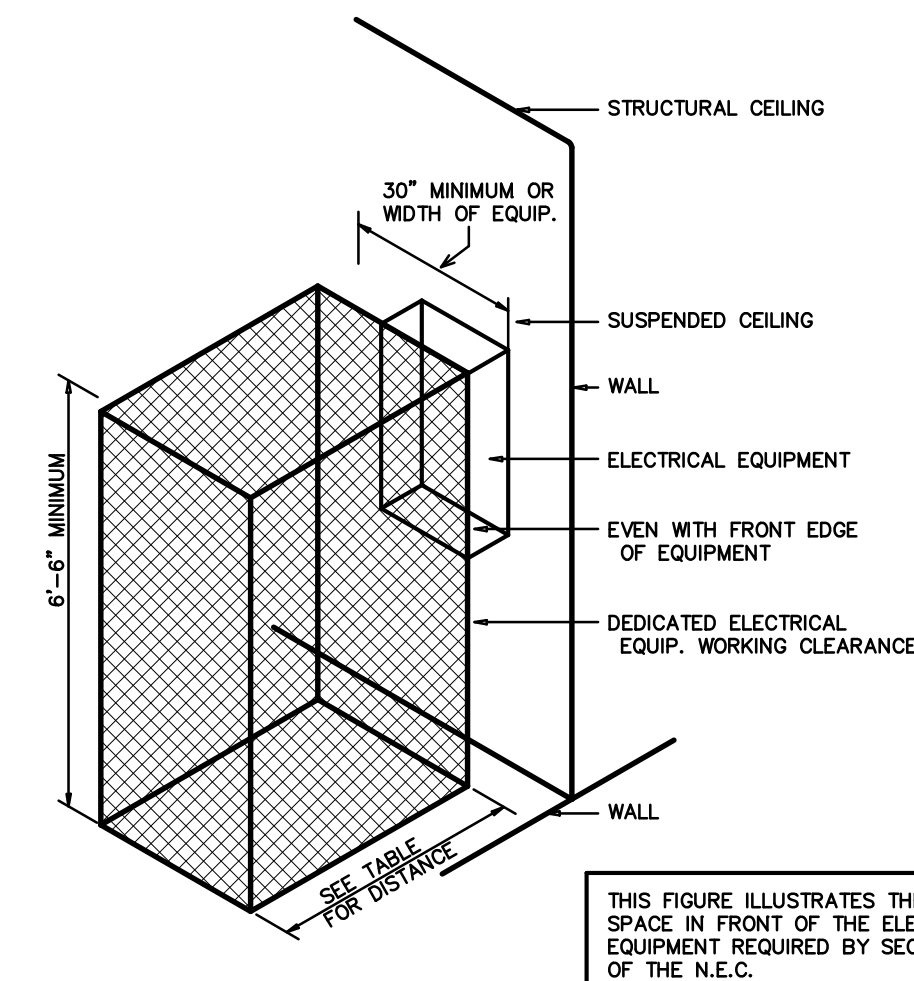
3 DEDICATED SPACE
NOT TO SCALE

ELECTRICAL EQUIPMENT WORKING CLEARANCE PER ARTICLE 110.26 OF N.E.C.

VOLTAGE TO GROUND NOMINAL	WORKING CLEARANCES			
	MIN. CLEAR DISTANCE IN FEET	1	2	3
0-150	3	3	3	3
151-600	3	3-1/2	4	4

WHERE THE CONDITIONS ARE AS FOLLOWS:

- 1 EXPOSED LIVE PARTS ON ONE SIDE OF THE WORKING SPACE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORKING SPACE THAT ARE EFFECTIVELY GUARDED BY INSULATING MATERIALS.
- 2 EXPOSED LIVE PARTS ON ONE SIDE OF THE WORKING SPACE AND GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE. CONCRETE, BRICK OR TILE WALLS SHALL BE CONSIDERED AS GROUNDED.
- 3 EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORKING SPACE.



WHERE THE CONDITIONS ARE AS FOLLOWS:

- 1 EXPOSED LIVE PARTS ON ONE SIDE OF THE WORKING SPACE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORKING SPACE THAT ARE EFFECTIVELY GUARDED BY INSULATING MATERIALS.
- 2 EXPOSED LIVE PARTS ON ONE SIDE OF THE WORKING SPACE AND GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE. CONCRETE, BRICK OR TILE WALLS SHALL BE CONSIDERED AS GROUNDED.
- 3 EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORKING SPACE.

4 ELECTRICAL CLEARANCES
NOT TO SCALE

ELECTRICAL LEGEND

- LINEAR FLUORESCENT LIGHT FIXTURE; LETTER DENOTES TYPE OF LIGHT FIXTURE (REFER TO LIGHTING PLAN AND FIXTURE SCHEDULE).
- CABINET EXHAUST FAN
- DUPLEX RECEPTACLE — 120V; MOUNT 18" TO CENTER AFF UNLESS NOTED OTHERWISE; "WP" INDICATES WEATHER PROOF, "GFI" INDICATES GROUND FAULT CURRENT INTERRUPT PROTECTED; "GFCI" INDICATES GROUND FAULT PROTECTION OF EQUIPMENT PER NEC ARTICLE 427.22
- QUADRAPLEX RECEPTACLE — 120V
- LIGHT SWITCH
- LIGHT SWITCH WITH INTEGRAL INFRARED MOTION SENSOR FOR AUTOMATIC SHUT-OFF WITH UP TO 2 HOUR ADJUSTABLE DELAY.
- MOTOR RATED SWITCH
- JUNCTION BOX
- TELE/DATA OUTLET — PROVIDE JUNCTION BOX AND CONDUIT WITH PULL STRING ABOVE CEILING. PROVIDE WIRING BACK TO SERVICE ENTRY.
- MAIN TELEPHONE PANEL— PROVIDE 2'x2' FIRE RESISTANT BACKBOARD. PROVIDE (2) 2" CONDUITS TO TELEPHONE SERVICE RIGHT-OF-WAY. SEE SITE PLAN FOR LOCATION.
- TIME CLOCK
- SINGLE-POLE HOMERUN TO PANELBOARD
- TWO-POLE OR 3-POLE HOMERUN TO PANELBOARD
- EMERGENCY LIGHT
- EXIT LIGHT
- COMBINATION EXIT/EMERGENCY LIGHT
- BRANCH CIRCUIT WIRING
- SWITCH LEG
- GROUND CONNECTION
- DISTRIBUTION PANELBOARD
- DISCONNECTING MEANS AS REQUIRED BY CODE
- EXTERIOR PHOTOCELL

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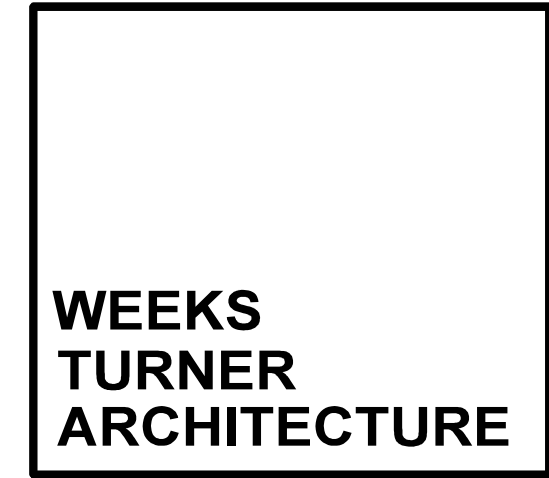
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ELECTRICAL DETAILS/SPECIFICATIONS

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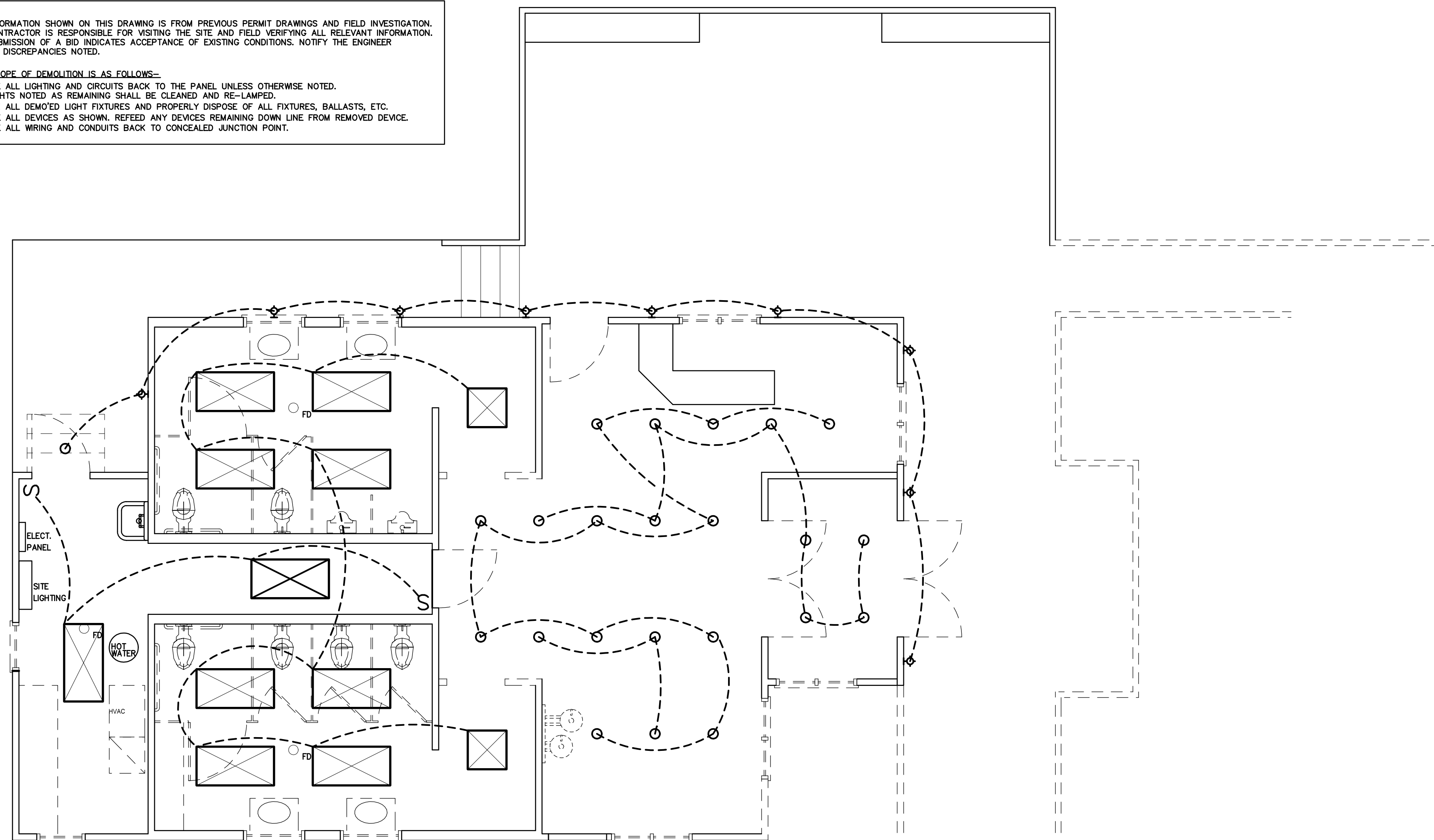
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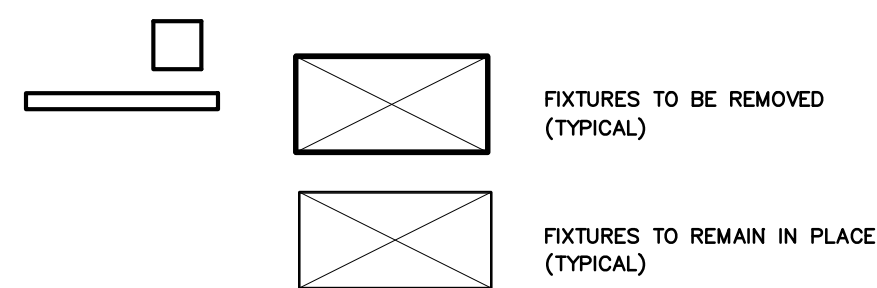
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NOTE:
THE INFORMATION SHOWN ON THIS DRAWING IS FROM PREVIOUS PERMIT DRAWINGS AND FIELD INVESTIGATION.
THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND FIELD VERIFYING ALL RELEVANT INFORMATION.
THE SUBMISSION OF A BID INDICATES ACCEPTANCE OF EXISTING CONDITIONS. NOTIFY THE ENGINEER
OF ANY DISCREPANCIES NOTED.

THE SCOPE OF DEMOLITION IS AS FOLLOWS--
REMOVE ALL LIGHTING AND CIRCUITS BACK TO THE PANEL UNLESS OTHERWISE NOTED.
ALL LIGHTS NOTED AS REMAINING SHALL BE CLEANED AND RE-LAMPED.
REMOVE ALL DEMO'ED LIGHT FIXTURES AND PROPERLY DISPOSE OF ALL FIXTURES, BALLASTS, ETC.
REMOVE ALL DEVICES AS SHOWN. REFEED ANY DEVICES REMAINING DOWN LINE FROM REMOVED DEVICE.
REMOVE ALL WRING AND CONDUITS BACK TO CONCEALED JUNCTION POINT.



ALL EXISTING LIGHTING
IS TO BE REMOVED.



1 EXISTING LIGHTING PLAN
SCALE: 1/4" = 1'-0"

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REST AREA
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DRAWING TITLE
EXISTING LIGHTING PLAN



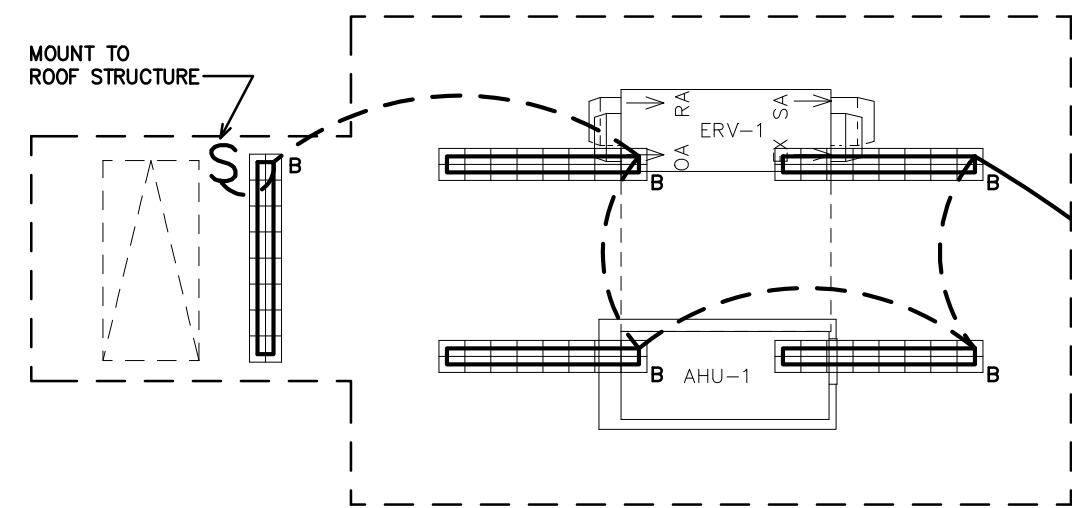
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LIGHTING SCHEDULE *									
MARK	MANUFACTURER	CATALOG NO.	VOLT.	LAMPS NO.	LAMPS TYPE	BALLAST W	W/ TYPE	FIXTURE	REMARKS
A	FINELITE	HP-4ID-8'-SO-SO-3500K-TG-120V-FA-SC-C4	120	-	LED	-	-	36	SUSPENDED INDIRECT/DIRECT LUMINAIRE
B	COLUMBIA	CS4-232-EPU-CSWG4	120	2	T8	32	EB	64	48" STANDARD STRIP, WIRE GUARD **
C	PRESCOLITE	LF6LED-6LFLED540K	120	-	LED	-	-	16.3	6" RECESSED CAN
D	PRESCOLITE	LF6LED-6LFLED740K	120	-	LED	-	-	33	EXTERIOR 6" RECESSED CAN
D1	PRESCOLITE	LF6LEDEM-6LFLED740KEM	120	-	LED	-	-	33	EXTERIOR 6" RECESSED CAN, EMERGENCY BATTERY
E	LBL	PF-489-AM-SC-28Q	120	1	CF	26	EB	26	PENDANT. COORDINATE LENGTH OF DROP WITH ARCH.
F	DUAL-LITE	PGN	120	-	LED	17	-	17	EXTERIOR WALL MOUNT LIGHT FIXTURE- COLOR BY ARCH
G	LBL	PF-489-AM-SC-28Q	120	1	CF	26	EB	26	PENDANT. COORDINATE LENGTH OF DROP WITH ARCH.
EXIT	MULE	PVT-1-B-R-U-BA-SD	120	-	LED	-	-	2	EXIT LIGHT WITH BATTERY, CLEAR GLASS, UNIVERSAL SURFACE, SELF DIAGNOSTICS
EXIT	MULE	AL-1-R-WW-SD	120	-	LED	-	-	4	COMBINATION EMERGENCY (TUNGSTEN)/ EXIT (LED) LIGHT
EXIT	MULE	ELW-BB-10L3-DG	120	-	LED	-	-	10	EMERGENCY LIGHT, BATTERY BACKUP, BATTERY DIAGNOSTICS, COLOR BY ARCH

* OR APPROVED EQUAL BY LITHONIA/DAYBRITE. PROVIDE CUT SHEETS FOR OWNER APPROVAL PRIOR TO ORDERING FIXTURES. FOR FLUORESCENT FIXTURES CONTROLLED BY MOTION SENSOR, PROVIDE "PROGRAMMED RAPID START" BALLASTS. CATALOG NUMBERS ARE FOR REFERENCE ONLY, ACTUAL NUMBERS MAY VARY. 'EB' DENOTES ELECTRONIC BALLAST.

** VERIFY FIXTURE HAS INTEGRAL LOCAL DISCONNECTING MEANS PER NEC 410.130 (G) (2011). THE EMERGENCY LIGHTS AND EXIT SIGNS MUST HAVE INTEGRAL BATTERIES, CHARGERS AND TEST SWITCHES.

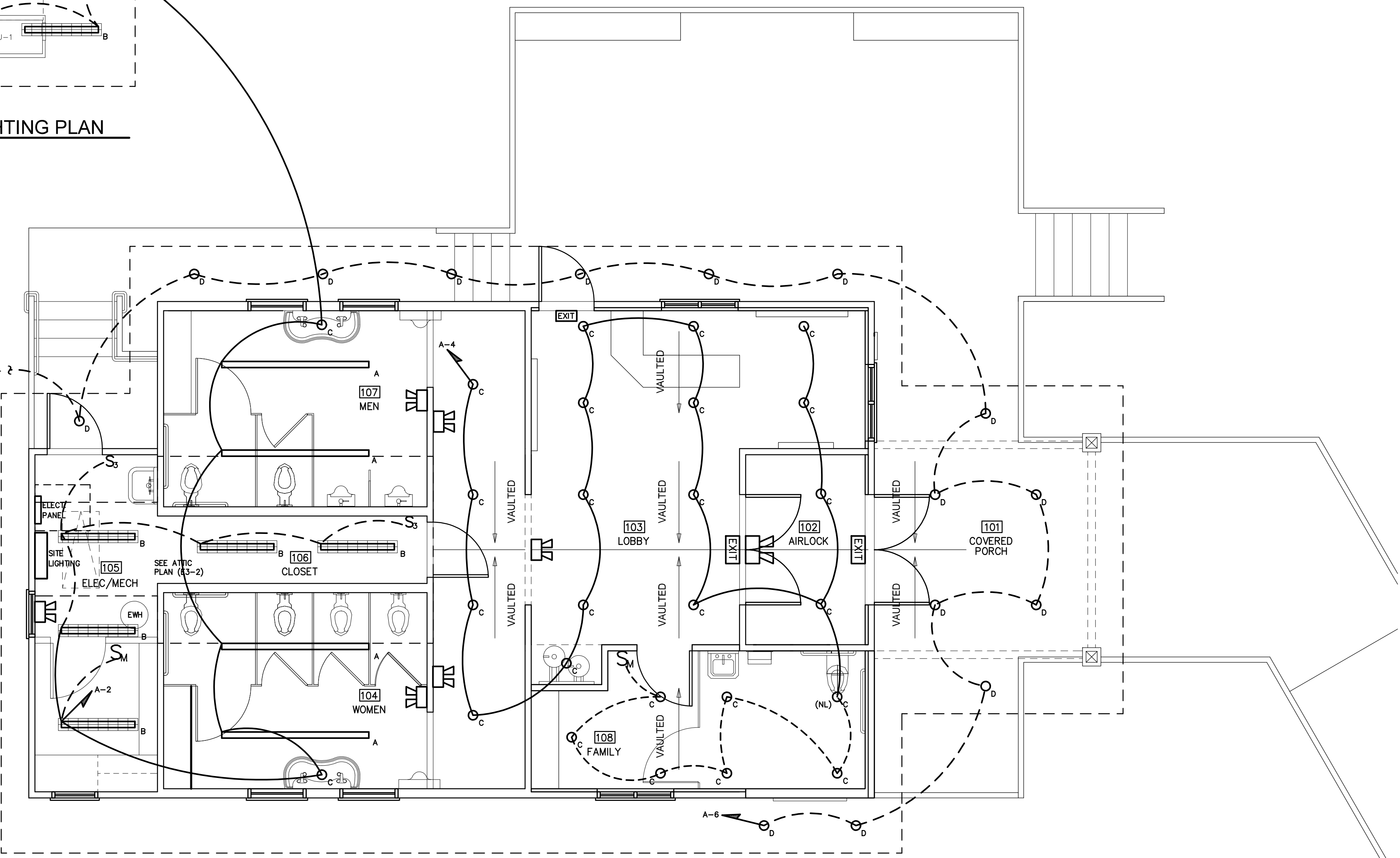


2 ATTIC LIGHTING PLAN
SCALE: 1/4" = 1'-0"

PROVIDE PHOTOCELL(S) AS REQUIRED TO SWITCH EXTERIOR LIGHTING. PROVIDE SHIELDING AS REQUIRED FOR PROPER OPERATION. COORDINATE LOCATION IN FIELD AWAY FROM ARTIFICIAL LIGHT

TO PHOTOCELL

TIE ALL EXIT AND EMERGENCY LIGHTS TO NEAREST AVAILABLE UNSWITCHED LIGHTING CIRCUIT IN THE AREA SERVED.

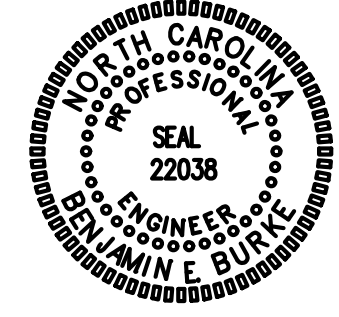


1 REVISED LIGHTING PLAN
SCALE: 1/4" = 1'-0"

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C33761F80F3405
10/19/2016

STATE ID# 16-16033-01A
WBS ELEMENT 51213.011

PROJECT TITLE
CHEROKEE COUNTY
REST AREA
US 19 AND COVER STREET
ANDREWS, NORTH CAROLINA

PROJECT NO.
1504a

DRAWING TITLE
REVISED LIGHTING PLAN



PLOT DATE 10/18/16

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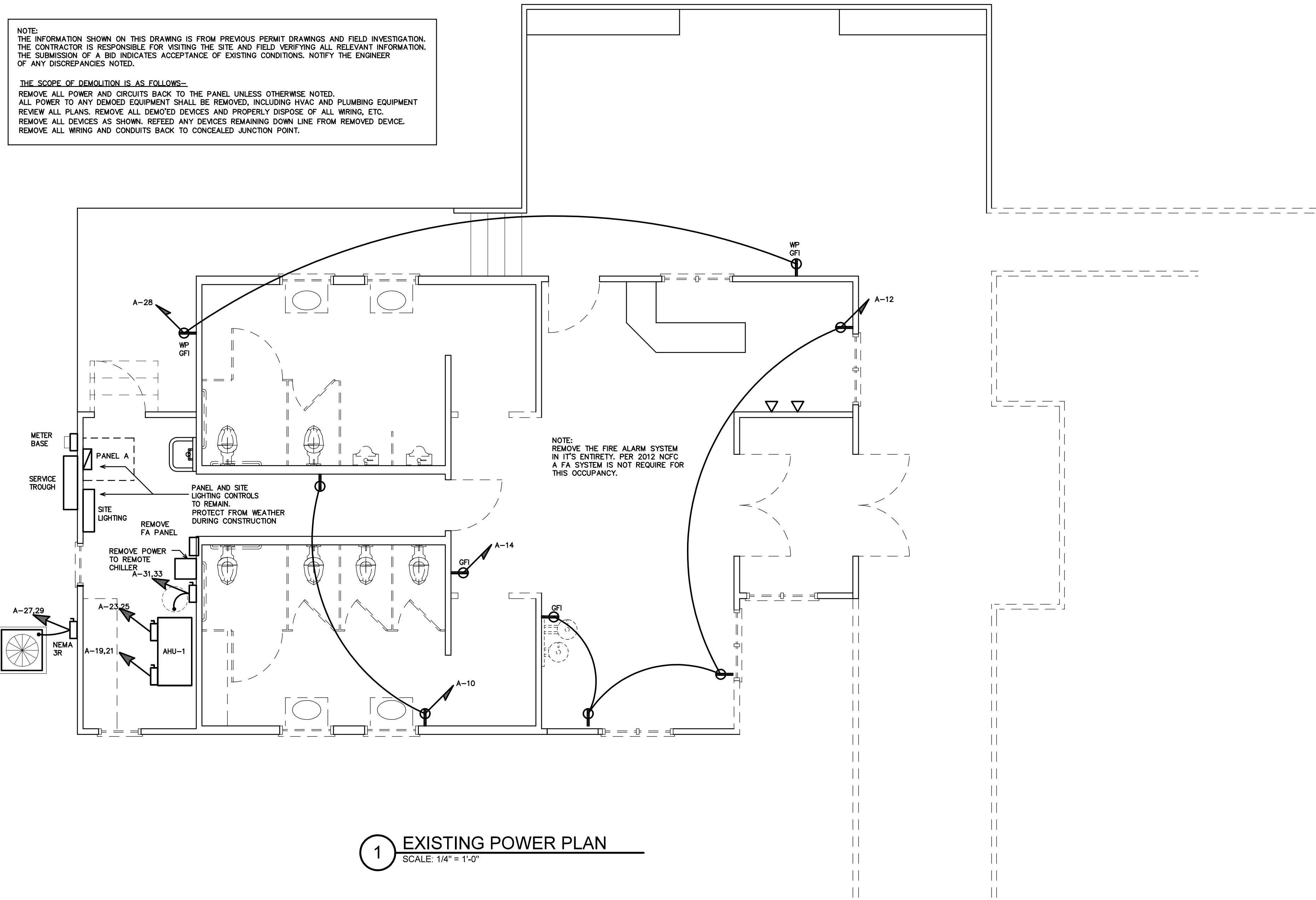
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10/19/2016



1 EXISTING POWER PLAN
SCALE: 1/4" = 1'-0"

STATE ID# 16-16033-01A
WBS ELEMENT 51213.011

PROJECT TITLE
**CHEROKEE COUNTY
REST AREA**
US 19 AND COVER STREET
ANDREWS, NORTH CAROLINA

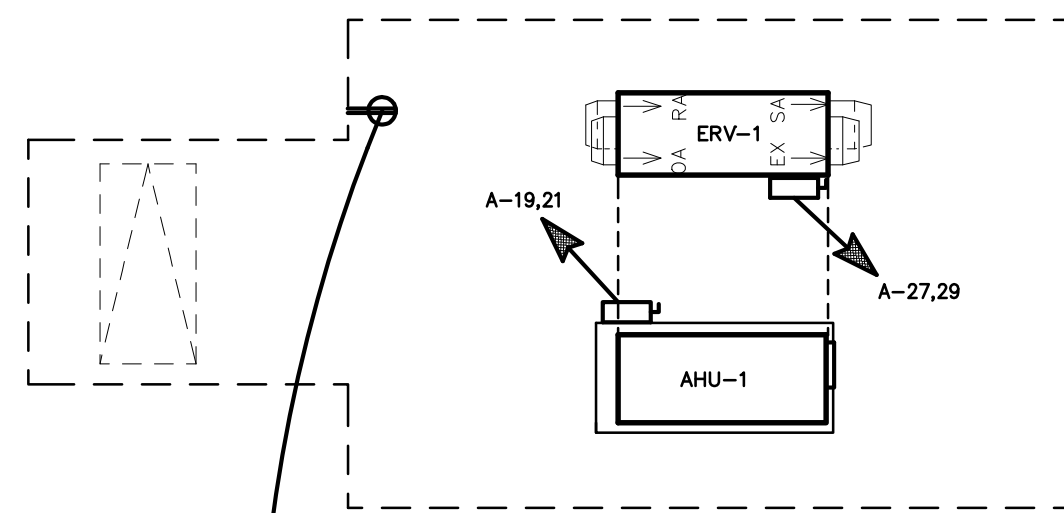
PROJECT NO.
1504a

DRAWING TITLE
EXISTING POWER PLAN

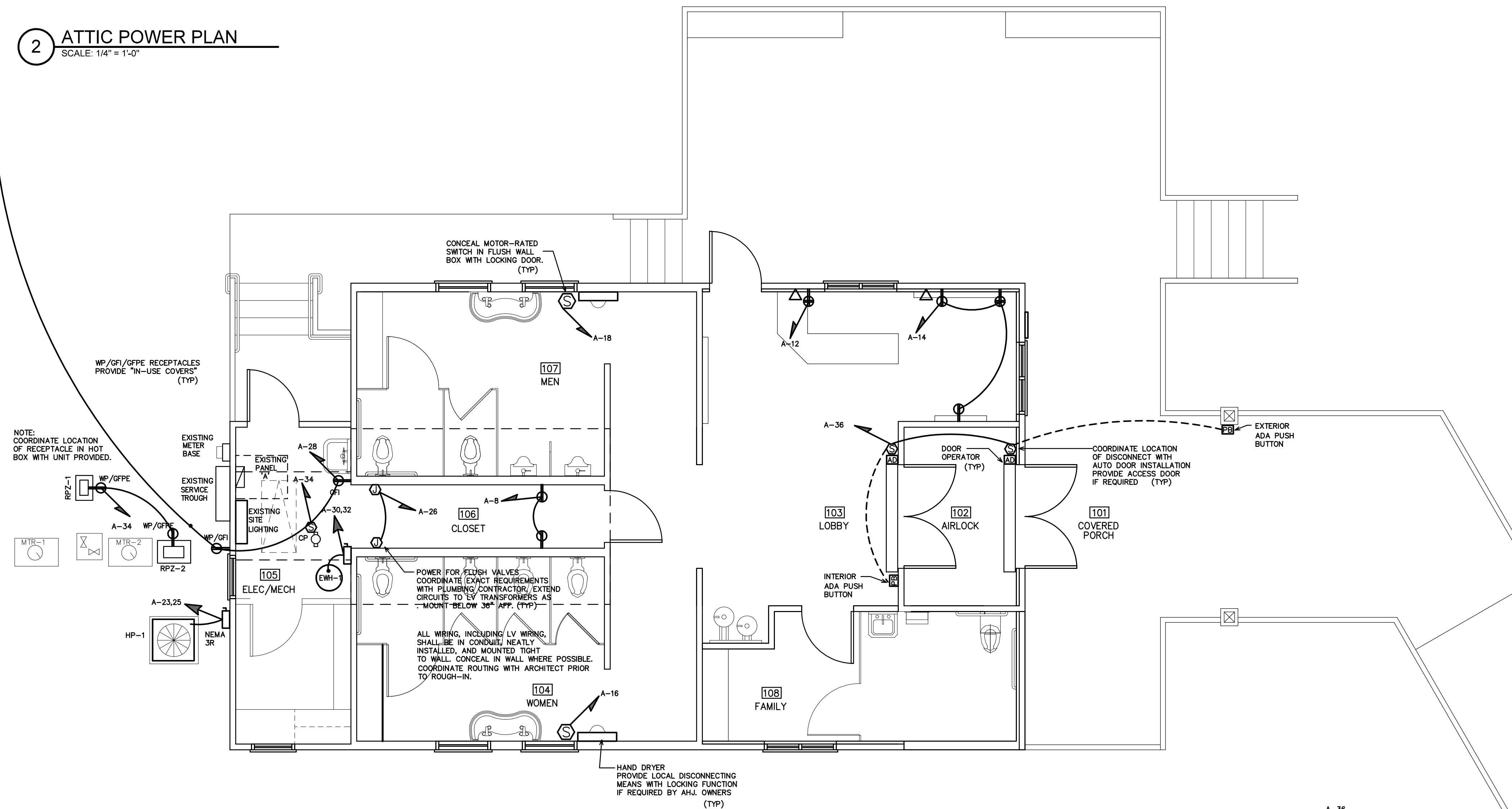
E4

PLOT DATE 10/18/16

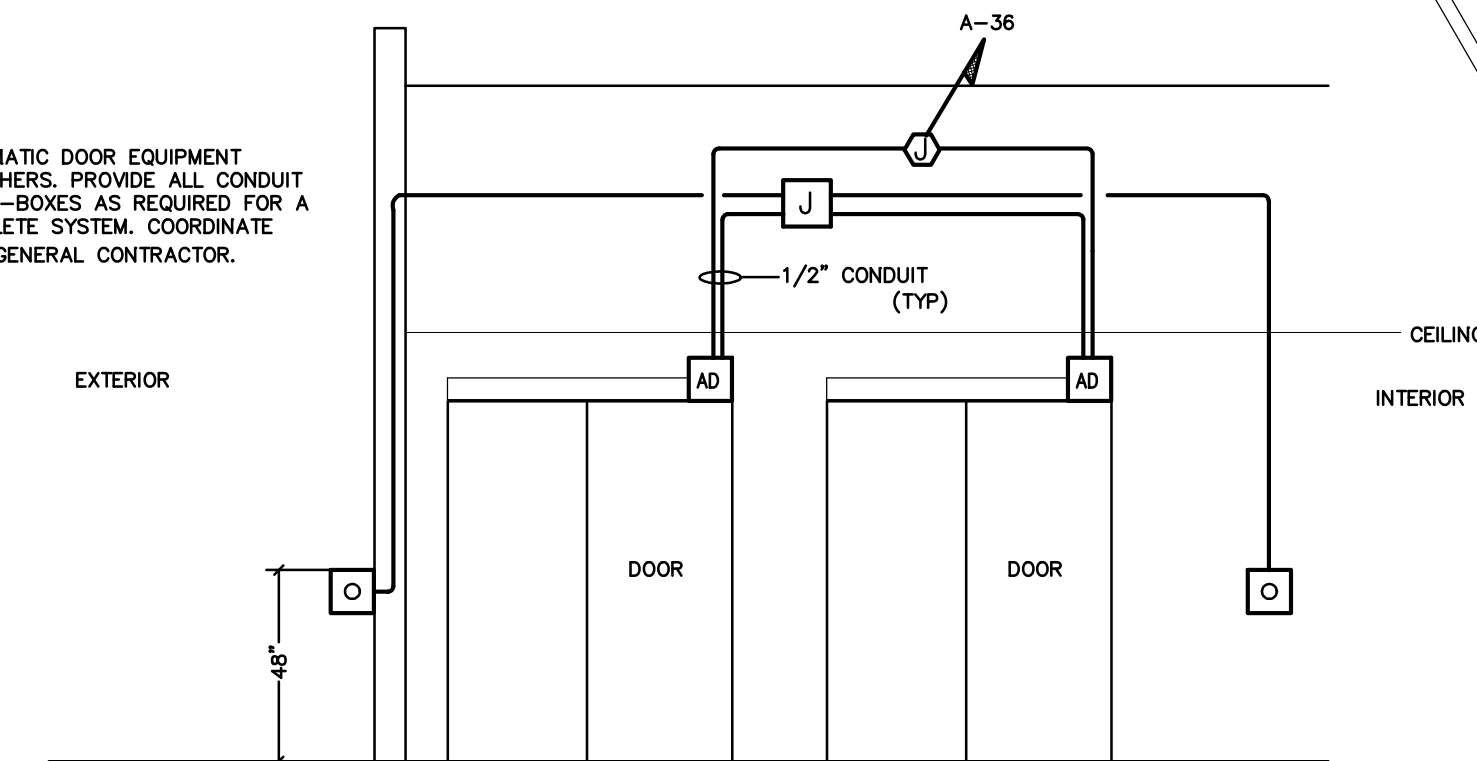
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2 ATTIC POWER PLAN
SCALE: 1/4" = 1'-0"



1 REVISED POWER PLAN
SCALE: 1/4" = 1'-0"



2 ADA DOOR CONTROL DETAIL
SCALE: NOT TO SCALE

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PROJECT TITLE
**CHEROKEE COUNTY
REST AREA**
US 19 AND COVER STREET
ANDREWS, NORTH CAROLINA

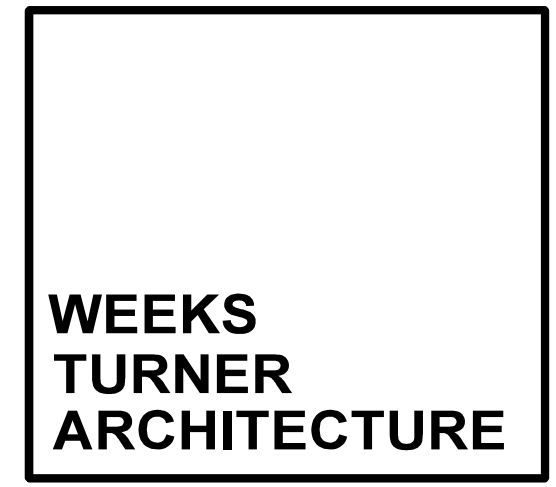
PROJECT NO.
1504a

DRAWING TITLE
REVISED POWER PLAN

15

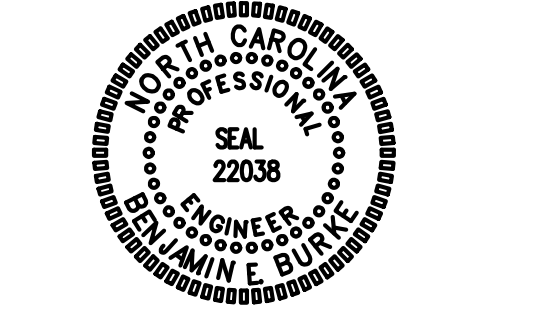
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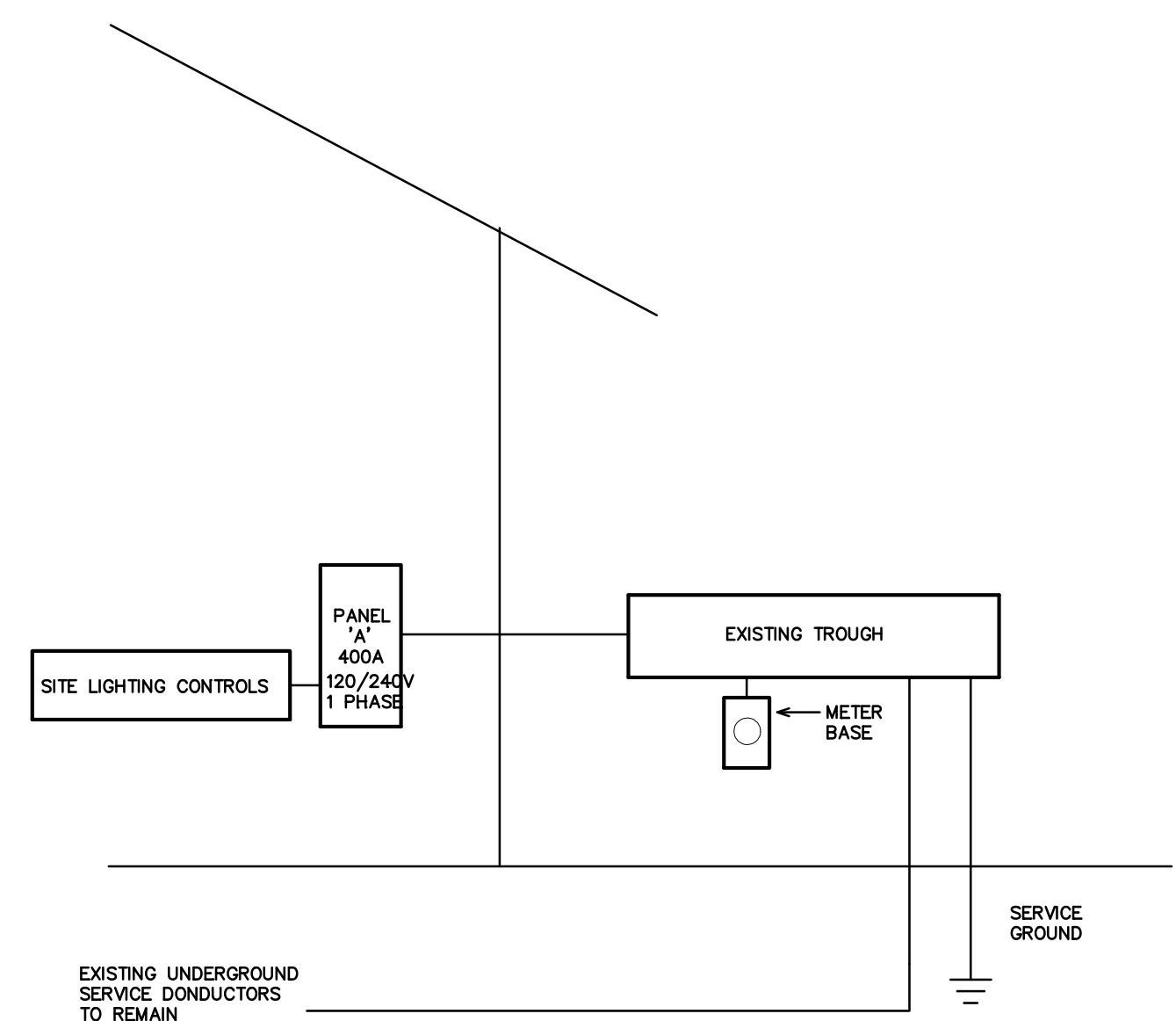
Cherokee Cty Rest Area E6

EQUIPMENT WIRING SCHEDULE

EQUIPMENT	MCA	MOCP	VOLTS	PH	WIRE SIZE
AHU-1	44.7A	50A	240V	1	2-#8, 1-#10 GND IN 3/4" CONDUIT
HP-1	29.2A	45A	240V	1	2-#8, 1-#10 GND IN 3/4" CONDUIT
ERV-1	18.5A	25A	240V	1	2-#10, 1-#10 GND IN 3/4" CONDUIT
EW-1	(4.5KW)	30A	240V	1	2-#10, 1-#10 GND IN 3/4" CONDUIT

NOTE:
THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL EQUIPMENT ELECTRICAL REQUIREMENTS
PRIOR TO ROUGH-IN AND RELEASING GEAR. ADJUST BREAKER, WIRE SIZES, ETC. AS REQUIRED.

LOAD SERVICE	CKT BRKR	WATTS PER PHASE		CKT NO	NEUTRAL		CKT NO	WATTS PER PHASE		CKT BRKR	LOAD SERVICE
		A	B		A	B		A	B		
ROAD LIGHTS	30A	---	---	1	---	---	2	---	---	20A	TRIM & MECH ROOM
ROAD LIGHTS	30A	---	---	3	---	---	4	---	---	20A	RESTROOM LIGHTING
ROAD LIGHTS	30A	---	---	5	---	---	6	---	---	20A	LOBBY LIGHTING
ROAD LIGHTS	30A	---	---	7	---	---	8	---	---	20A	FOYER & LOBBY (PHOTOCELL)
ARRESTER SPARE	20A	---	---	9	---	---	10	---	---	20A	RECEPTACLE (TOILETS & URINALS)
ARRESTER SPARE	20A	---	---	11	---	---	12	---	---	20A	RECEPTACLE
SEWAGE ALARM	20A	---	---	13	---	---	14	---	---	20A	EW-1 RECEPTACLE (GFI)
SPARE	20A	---	---	15	---	---	16	---	---	30A	HAND DRYERS (WOMEN)
ROADWAY LIGHTS	15A	---	---	17	---	---	18	---	---	30A	HAND DRYERS (MEN)
AHU (INSIDE)	---	---	---	19	---	---	20	---	---	20A	HEAT EXCHANGER FAN
2P/25A	---	---	---	21	---	---	22	---	---	20A	HEAT EXCHANGER FAN
AHU (STRIPHEAT)	60A	---	---	23	---	---	24	---	---	20A	FACP, HORN, EXIT w/ LOCK
2P/25A	---	---	---	25	---	---	26	---	---	20A	SPARE
CONDENSING UNIT	60A	---	---	27	---	---	28	---	---	20A	WP RECEPT. (GFI)
2P/60 AMP	---	---	---	29	---	---	30	---	---		SPARE
EW-1 (WATER HEATER)	30A	---	---	31	---	---	32	---	---		SPARE
-	---	---	---	33	---	---	34	---	---		SPARE
SEWAGE PUMP	40A	---	---	35	---	---	36	---	---		SPARE
-	---	---	---	37	---	---	38	---	---		SPARE
SPACE	---	---	---	39	---	---	40	---	---		SPACE
SPACE	---	---	---	41	---	---	42	---	---		SPACE
NOTES		SUB-TOTALS 'B'		400A BUS	---	---	---	---	---	SUB-TOTALS 'A'	
				400A LUGS	---	---	---	---	---	SUB-TOTALS 'B'	
				400A FEED	---	---	---	---	---	GRAND TOTAL	
				VERIFY SIZE	---A	---A	---	---	---	AMPS/PHASE	
										TOTAL CONNECTED LOAD	



1 ELECTRICAL SERVICE RISER

SCALE: NTS

NOTE:
THE ELECTRICAL SERVICE IS EXISTING AND SHOWN FOR REFERENCE ONLY.
NO NEW WORK IS REQUIRED.

VERIFY AVAILABLE FAULT CURRENT AT SERVICE LOCATION WITH LOCAL POWER COMPANY. PROVIDE INFORMATION TO ENGINEER TO CALCULATE MINIMUM PANEL AIC RATING.
EC SHALL PROVIDE LABELING INDICATING FAULT CURRENT AT SERVICE ENTRY AND ON ALL PANELS PRIOR TO ENERGIZING.

LOAD SERVICE	CKT BRKR	WATTS PER PHASE		CKT NO	NEUTRAL		CKT NO	WATTS PER PHASE		CKT BRKR	LOAD SERVICE
		A	B		A	B		A	B		
ROADWAY LIGHTS	30A	2340	---	1	---	---	2	464	---	20A	BATH AND ELEC/MECH LTS.
ROADWAY LIGHTS	30A	2340	2340	3	---	---	4	392	---	20A	LOBBY & FAMILY LTS.
ROADWAY LIGHTS	30A	2340	---	5	---	---	6	495	---	20A	EXTERIOR LTS.
ROADWAY LIGHTS	30A	---	2340	7	---	---	8	360	---	20A	MECH HALL REC.
ARRESTER SPARE	20A	---	---	9	---	---	10	360	---	20A	WP REC.
ARRESTER SPARE	20A	---	---	11	---	---	12	360	---	20A	INFO DESK REC. 1
SEWAGE ALARM	20A	180	---	13	---	---	14	720	---	20A	INFO DESK REC. 2
SPARE	20A	---	---	15	---	---	16	1920	---	20A	HAND DRYERS (WOMEN)
ROADWAY LIGHTS	15A	1530	---	17	---	---	18	1920	---	20A	HAND DRYERS (MEN)
AHU-1	50A	---	4332	19	---	---	20	---	---	20A	SPARE
HP-1	45A	---	2832	21	---	---	22	---	---	20A	SPARE
HP-1	45A	2832	---	23	---	---	24	---	---	20A	FLUSH VALVE J-BOX
ERV-1	25A	---	1535	27	---	---	28	540	---	20A	REC - MECH, EXTERIOR, ATTIC
ERV-1	25A	1535	---	29	---	---	30	2250	---	30A	EW-1
SPARE	30A	---	---	31	---	---	32	2259	---		
SEWAGE PUMP	40A	---	3840	35	---	---	36	500	---	20A	REC - HOT BOX(S)
SEWAGE PUMP	40A	3840	---	37	---	---	38	---	---	20A	AUTOMATIC DOOR OPENERS
SPACE	---	---	---	39	---	---	40	---	---	20A	SPARE
SPACE	---	---	---	41	---	---	42	---	---	20A	SPARE
NOTES		SUB-TOTALS 'B'		400A BUS	6709	5872	---	---	---	SUB-TOTALS 'A'	
EXISTING/UNCHANGED CIRCUIT				400A LUGS	14597	17219	---	---	---	SUB-TOTALS 'B'	
NEW/REVISED CIRCUIT				400A FEED	21306	23091	---	---	---	GRAND TOTAL	
				VERIFY SIZE	178A	192A	---	---	---	AMPS/PHASE	
										TOTAL CONNECTED LOAD	

NEC ALLOWABLE DEMAND FACTORS	DIVERSIFIED LOAD SUMMARY				
	LOAD TYPE	DEMAND FACTOR	A	B	TOTAL DIVERSIFIED LOAD
1 DEMAND FACTORS PER NEC 220	GENERAL LIGHTING	125%	8982	8340	15302
2 LARGEST OF: NEC TABLE 220.12 OR CONNECTED LOAD	TRACK LIGHTING	125%	---	---	---
3 NEC TABLE 220.56	GENERAL USE RECEPTACLES	100%	1080	1280	2340
4 NEC 220.51	MOTORS AND EQUIPMENT	125%	3360	3360	6720
5 NEC 220.43A, 200 VA/LINEAR FT	WATER HEATERS	100%	2407	2407	4814
6 NON-COINCIDENT LOADS, LARGEST OF THE TWO LOADS IS COUNTED	KITCHEN EQUIPMENT	125%	3750	1875	5625
	FIX. ELEC. SPACE HEAT.	100%	---	---	---
	SHOW WINDOW LIGHTS	125%	3840	3840	7680
	SIGN	125%	---	---	---
	MISC	100%	6440	6060	12500
	TOTAL VA		29839	25142	54981
	PHASE (TOTAL VA)		249A	210A	---
	TOTAL AMPS		---	---	229A

STATE ID# 16-16033-01A
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PROJECT TITLE
CHEROKEE COUNTY
REST AREA
US 19 AND COVER STREET
ANDREWS, NORTH CAROLINA

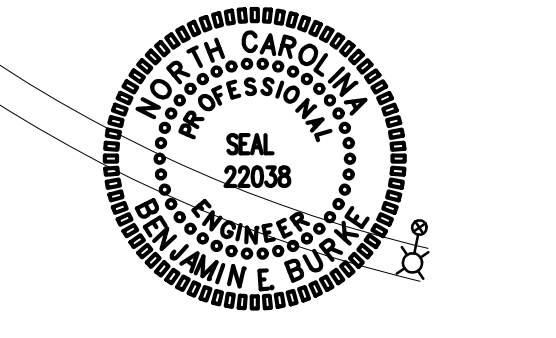
PROJECT NO.
1504a

DRAWING TITLE
PANEL SCHEDULES/
SERVICE RISER

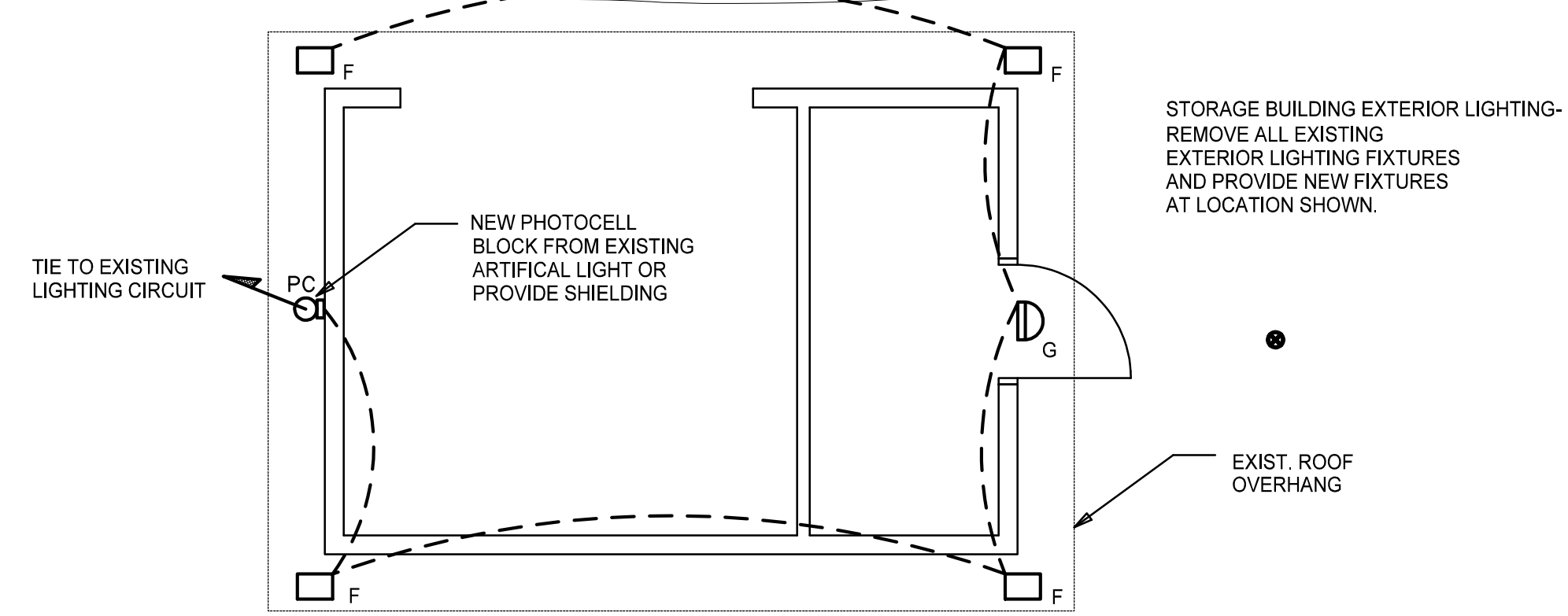
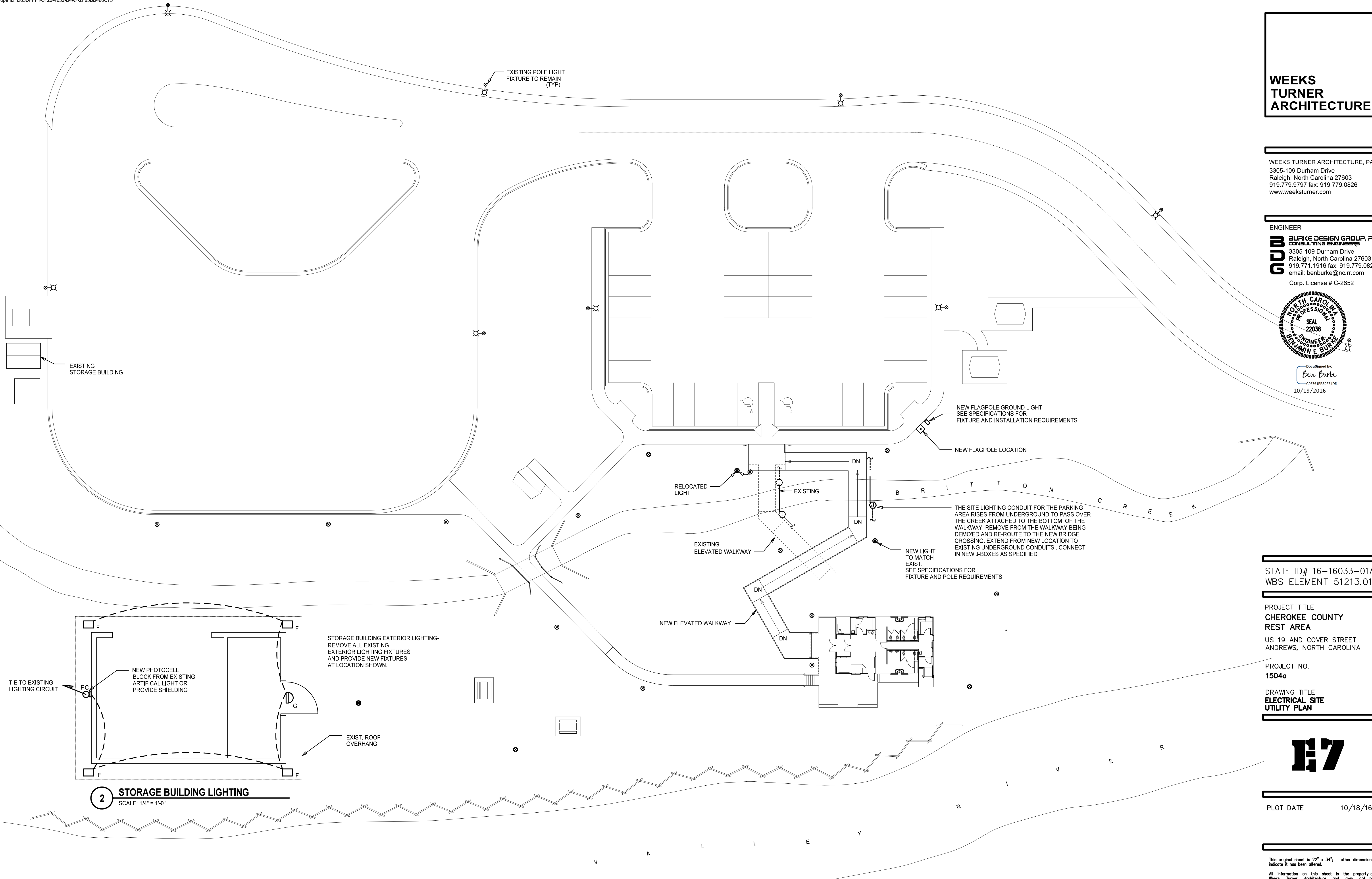
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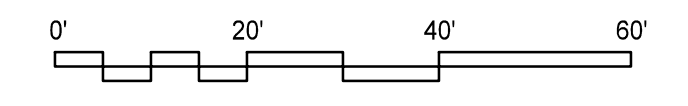


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10/19/2016



2 STORAGE BUILDING LIGHTING
SCALE: 1/4" = 1'-0"

1 ELECTRICAL SITE PLAN
SCALE: 1" = 20'-0"



STATE ID# 16-16033-01A
WBS ELEMENT 51213.011

PROJECT TITLE
**CHEROKEE COUNTY
REST AREA**
US 19 AND COVER STREET
ANDREWS, NORTH CAROLINA

PROJECT NO.
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DRAWING TITLE
**ELECTRICAL SITE
UTILITY PLAN**



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