

ELECTRICAL NOTES

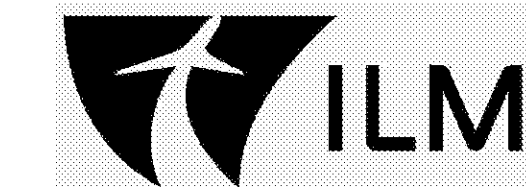
- ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION.
- PERMITS FOR ELECTRICAL WORK SHALL BE OBTAINED BY AND PAID BY THE ELECTRICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL PAY FOR ANY ADDITIONAL FEES FOR INSPECTIONS, TESTS, AND OTHER SERVICES AS REQUIRED FOR THE COMPLETION OF THE WORK.
- THE ELECTRICAL CONTRACTOR AND ANY OF HIS SUBCONTRACTORS SHALL VISIT THE PROJECT SITE TO WITNESS EXISTING CONDITIONS AND BECOME FAMILIAR WITH THE SCOPE OF THE WORK REQUIRED PRIOR TO SUBMITTING PROPOSALS. WORK REQUIRED BY EXISTING JOB CONDITIONS NOT INDICATED ON DRAWINGS SHALL BE INCLUDED IN EACH PROPOSAL.
- THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO RESULT IN THE PRODUCTION OF A COMPLETE AND FUNCTIONAL ELECTRICAL SYSTEM. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL MATERIAL, LABOR, EQUIPMENT, AND OTHER SERVICES AS NECESSARY TO COMPLETE THE WORK.
- DISCREPANCIES IN THE DRAWINGS AND SPECIFICATIONS THAT WILL AFFECT THE WORK SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO SUBMITTING PROPOSALS.
- UNLESS NOTED OTHERWISE, ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND INCLUDE A 3RD PARTY LABEL (I.E.: UL, CSA, ETC.) LISTING APPROVAL FOR ITS INSTALLED APPLICATION.
- REVIEW PLANS OF OTHER TRADES FOR COORDINATION OF WORK AND FOR RELATED AND ADJOINING WORK.
- REVIEW COMPLETE PLAN SET FOR CONSTRUCTION TYPE, FINISHES, HEADROOM, ROOF FINISHES, CEILING, ETC. REVIEW COMPLETE PLAN SET FOR PROJECT PHASING AND STAGING. REVIEW COMPLETE PLAN SET FOR WORK COVERED BY ALTERNATE BID ITEMS.
- COORDINATE DEVICE AND EQUIPMENT MOUNTING HEIGHTS WITH OTHER DISCIPLINE DRAWINGS, CASEWORK DETAILS & SUBMITTALS, EQUIPMENT DETAILS & SUBMITTALS, ETC.
- PENETRATIONS OF FIRE-RATED WALLS, FLOORS, CEILING, AND PARTITIONS SHALL BE FIRE STOPPED IN ACCORDANCE WITH REQUIREMENTS OF THE STATE BUILDING CODE. COORDINATE WORK TO INSURE THAT FIRE STOPPING IS COMPLETED.
- PENETRATIONS OF SMOKE PARTITIONS SHALL BE SEALED IN ACCORDANCE WITH REQUIREMENTS OF THE STATE BUILDING CODE. COORDINATE WORK TO INSURE THAT SMOKE PARTITION SEALING IS COMPLETED.
- PENETRATIONS OF EXTERIOR BUILDING WALLS, FLOORS, OR ROOFS SHALL BE SEALED WATER-TIGHT. INTERIORS OF RACEWAY PENETRATIONS THROUGH EXTERIOR WALLS SHALL BE SEALED WITH NON-HARDENING ELECTRICAL PUTTY.
- CUTTING AND PATCHING TO INSTALL DEVICES AND EQUIPMENT SHALL BE PERFORMED WITH FINISHES RESTORED TO THEIR ORIGINAL CONDITION. SUCH WORK SHALL BE COMPLETED TO A DEGREE THAT IS ACCEPTABLE TO THE ARCHITECT, ENGINEER, AND/OR OWNER.
- COORDINATE PRECISE LOCATION OF HVAC EQUIPMENT WITH THE MECHANICAL CONTRACTOR.
- FOR HVAC EQUIPMENT, VERIFY CIRCUIT BREAKER RATINGS, FUSE RATINGS, AND WIRE SIZES. IF RATINGS DIFFER FROM THOSE INDICATED ON THE DRAWINGS, NOTIFY THE ARCHITECT, ENGINEER, AND OWNER FOR DIRECTION. PROVIDE OVERCURRENT PROTECTION IN ACCORDANCE WITH EQUIPMENT MANUFACTURER NAMEPLATE DATA. IF THE EQUIPMENT LISTING LABEL REQUIRES FUSED PROTECTION, ENSURE THAT FUSES IN A FUSED DISCONNECT SWITCH AT THE EQUIPMENT ARE SIZED AS INDICATED ON THE EQUIPMENT LABEL.
- VERIFY PROPER SIZING OF OVERLOAD DEVICES IN STARTERS BASED ON EQUIPMENT NAMEPLATE DATA.
- IF HORSEPOWER OR LOAD RATINGS OF EQUIPMENT DIFFER FROM THOSE INDICATED ON THE DRAWINGS, NOTIFY THE ARCHITECT, ENGINEER, AND OWNER FOR DIRECTION.
- PROVIDE NATIONAL ELECTRICAL CODE REQUIRED CLEARANCES FOR ALL ELECTRICAL EQUIPMENT. COORDINATE RESOLUTION OF CONFLICTS WITH OTHER TRADES.
- RECEPTACLE, SWITCH, DATA/TELEPHONE OUTLETS SHALL BE FLUSH MOUNTED IN FINISHED SPACES UNLESS OTHERWISE NOTED.
- WHERE INSTALLED IN FLENUM SPACES, CABLES SHALL BE FLENUM-RATED OR INSTALLED IN METAL RACEWAY.
- PRIOR TO ORDERING LIGHT FIXTURES, CONTRACTOR SHALL VERIFY TYPE OF CEILING OR WALL BY REVIEW OF ARCHITECTURAL FINISH SCHEDULES AND PROVIDE SUITABLE TRIM AND APPURTENANCES TO MOUNT FIXTURES IN TYPE OF CEILING OR WALL INDICATED.
- RECESSED LIGHT FIXTURES INSTALLED IN CEILING HAVING INSULATION INSTALLED OVER CEILING AND FIXTURES (AS INDICATED IN ARCHITECTURAL PLANS, OR FOUND AS EXISTING CONDITIONS) SHALL BE U.L. RATED FOR DIRECT CONTACT WITH INSULATION.
- RECESSED LIGHT FIXTURES INSTALLED IN FIRE RATED CEILING SHALL BE U.L. RATED FOR USE IN FIRE RATED CEILING OR SHALL BE INSTALLED WITH "FENTING" IN ACCORDANCE WITH RATING REQUIREMENTS OF THE CEILING ASSEMBLY.
- EXIT AND EMERGENCY LIGHTS SHALL BE CONNECTED TO THE NEAREST UNSWITCHED CIRCUIT THAT SERVES LIGHT FIXTURES WITHIN THE SAME SPACE.
- NO MOUNTING HARDWARE SHALL BE ATTACHED TO ROOF DECKS. ATTACHMENTS SHALL BE MADE TO THE ROOF SUPPORTING STRUCTURE.
- WHERE WORKING IN EXISTING BUILDINGS, FACILITIES, OR STRUCTURES; PROTECT AND MAINTAIN IN OPERATION EXISTING LIFE SAFETY SYSTEMS, PUBLIC ADDRESS SYSTEMS, ELECTRICAL SYSTEMS, ETC. IF SHUTDOWNS ARE REQUIRED, NOTIFY THE ARCHITECT, ENGINEER, AND OWNER FOR COORDINATION WELL IN ADVANCE OF ANY SYSTEM SHUTDOWN. WHERE AN OUTAGE OF EXTENDED DURATION IS NOT ACCEPTABLE TO THE OWNER, PROVIDE TEMPORARY CONNECTIONS AS REQUIRED TO MAINTAIN SERVICE.
- WHERE WORKING IN EXISTING BUILDINGS, FACILITIES, OR STRUCTURES; WORK MAY BE REQUIRED TO BE PERFORMED WHILE REMAINING OCCUPIED BY OWNER STAFF. WORK SHALL BE COORDINATED WITH THE OWNER TO MINIMIZE DISRUPTION TO THE OWNER.
- WHERE WORKING IN EXISTING BUILDINGS, FACILITIES, OR STRUCTURES; EXISTING ABANDONED CIRCUITS USED TO CONNECT NEW LOADS IN THE SAME AREA SHALL BE CLEARLY IDENTIFIED ON AS-BUILT MARK-UP DRAWINGS WITH REGARD TO PANEL-CIRCUIT AND CIRCUIT ROUTING CONFIGURATION.
- ABANDONED CIRCUITRY (RACEWAY & CONDUCTORS) SHALL BE REMOVED IN ITS ENTIRETY FROM ITS SOURCE. ABANDONED LOW VOLTAGE CABLING SHALL BE REMOVED IN ITS ENTIRETY UNLESS OTHERWISE NOTED.
- PANEL BUS MATERIAL: COPPER.
- SHARED NEUTRAL CONDUCTORS SHALL NOT BE USED UNLESS SPECIFICALLY INDICATED SO ON HOMERUN CIRCUITRY DESIGNATIONS.
- PANEL BREAKER CONFIGURATIONS SHALL BE INSTALLED AS INDICATED ON THE PANEL SCHEDULES OR AS NOTED. BREAKER POSITION REVISIONS WILL NOT BE ACCEPTED UNLESS APPROVED IN WRITING BY THE ENGINEER.
- LOAD CIRCUITS SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS. CIRCUITRY REVISIONS WILL NOT BE ACCEPTED UNLESS APPROVED IN WRITING BY THE ENGINEER.

ABBREVIATIONS

ADA	AMERICAN DISABILITIES ACT
AF	ABOVE FINISHED FLOOR
AFS	ABOVE FINISHED GRADE
AHU	AIR HANDLER UNIT
AIC	AMPS INTERRUPTING CAPABILITY
AV	AUDIO VIDEO
BAS	BUILDING AUTOMATION SYSTEM
BCAHU	BLOWER COIL AIR HANDLER UNIT
BKR	BREAKER
C	CONDUIT
C/B	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CL	CEILING
CKT	CIRCUIT
COMB	COMBINATION
COMM	COMMUNICATIONS
COMP	COMPRESSOR
CJ	COPPER
DDC	DIRECT DIGITAL CONTROL
DIA	DIAMETER
DWG	DRAWING
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSED
EXSTG	EXISTING
FACP	FIRE ALARM CONTROL PANEL
FACU	FIRE ALARM CONTROL UNIT
FMC	FLEXIBLE METALLIC CONDUIT
G	EQUIPMENT GROUND
GEC	GROUNDING ELECTRODE CONDUCTOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GPU	GROUND POWER UNIT
HPF	HIGH POWER FACTOR
HP	HEAT PUMP
HP	HORSEPOWER
IMC	INTERMEDIATE METAL CONDUIT
K	KILO (THOUSAND)
LED	LIGHT EMITTING DIODE
LFT	LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT
LIT	LIGHTING
LTS	LIGHTS
M	MECHANICAL CONTRACTOR
MCB	MAIN CIRCUIT BREAKER
MCP	MOTOR CONTROL PANEL
MDF	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MLO	MAIN LUG ONLY
MS	MOTOR STARTER
MSB	MAIN SWITCHBOARD
N/A	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
NTS	NOT TO SCALE
P	PHASE OR POLE
PBB	PASSENGER BOARDING BRIDGE
PC	PLUMBING CONTRACTOR
PH	PHASE
PIC	PROGRAMMABLE LOGIC CONTROLLER
PNL	PANEL
PVC	POLYVINYL CHLORIDE
REC	RECEPTACLE
RECP	RECEPTACLE
REQ.	REQUIRED
RGC	RIGID GALVANIZED CONDUIT
RGS	RIGID GALVANIZED STEEL
S.S.	STAINLESS STEEL
SYST	SYSTEM
S/N	SOLID NEUTRAL
TEL	TELEPHONE
TSP	TWISTED SHIELDED PAIR
TP	TYPICAL
UL	UNDERWRITERS LABORATORY
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
UN	UNLESS OTHERWISE NOTED
V	VOLTS
VA	VOLT-AMPS
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS
W	WIRE
W	WITH
WP	WEATHERPROOF
XFMR	TRANSFORMER

SHEET LIST

E-001	ELECTRICAL NOTES, SHEET LIST, & APPENDIX B SUMMARY
E-002	ELECTRICAL LEGENDS
ED1-111	SCHEDULE 1 - ELECTRICAL RAMP LEVEL DEMO PLAN ZONE 1
ED1-113	SCHEDULE 1 - ELECTRICAL RAMP LEVEL DEMO PLAN ZONE 3
ED1-114	SCHEDULE 1 - ELECTRICAL RAMP LEVEL DEMO PLAN ZONE 4
ED1-115	SCHEDULE 1 - ELECTRICAL RAMP LEVEL DEMO PLAN ZONE 5
ED1-121	SCHEDULE 1 - ELECTRICAL BOARDING LEVEL DEMO PLAN ZONE 1
ED1-123	SCHEDULE 1 - ELECTRICAL BOARDING LEVEL DEMO PLAN ZONE 3
ED1-125	SCHEDULE 1 - ELECTRICAL BOARDING LEVEL DEMO PLAN ZONE 5
E1-109	SCHEDULE 1 - ELECTRICAL SITE PLAN
E1-110	SCHEDULE 1 - ELECTRICAL RAMP LEVEL OVERALL PLAN
E1-111	SCHEDULE 1 - ELECTRICAL RAMP LEVEL POWER PLAN ZONE 1
E1-112	SCHEDULE 1 - ELECTRICAL RAMP LEVEL POWER PLAN ZONE 2
E1-113	SCHEDULE 1 - ELECTRICAL RAMP LEVEL POWER PLAN ZONE 3
E1-114	SCHEDULE 1 - ELECTRICAL RAMP LEVEL POWER PLAN ZONE 4
E1-115	SCHEDULE 1 - ELECTRICAL RAMP LEVEL POWER PLAN ZONE 5
E1-116	SCHEDULE 1 - ELECTRICAL RAMP LEVEL POWER PLAN ZONE 6
E1-121	SCHEDULE 1 - ELECTRICAL RAMP LEVEL LIGHTING PLAN ZONE 1
E1-122	SCHEDULE 1 - ELECTRICAL RAMP LEVEL LIGHTING PLAN ZONE 2
E1-123	SCHEDULE 1 - ELECTRICAL RAMP LEVEL LIGHTING PLAN ZONE 3
E1-124	SCHEDULE 1 - ELECTRICAL RAMP LEVEL LIGHTING PLAN ZONE 4
E1-131	SCHEDULE 1 - ELECTRICAL RAMP LEVEL AUXILIARY SYSTEMS ZONE 1
E1-132	SCHEDULE 1 - ELECTRICAL RAMP LEVEL AUXILIARY SYSTEMS ZONE 2
E1-133	SCHEDULE 1 - ELECTRICAL RAMP LEVEL AUXILIARY SYSTEMS ZONE 3
E1-135	SCHEDULE 1 - ELECTRICAL RAMP LEVEL AUXILIARY SYSTEMS ZONE 5
E1-136	SCHEDULE 1 - ELECTRICAL RAMP LEVEL AUXILIARY SYSTEMS ZONE 6
E1-140	SCHEDULE 1 - ELECTRICAL BOARDING LEVEL OVERALL PLAN
E1-141	SCHEDULE 1 - ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 1
E1-142	SCHEDULE 1 - ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 2
E1-143	SCHEDULE 1 - ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 3
E1-151	SCHEDULE 1 - ELECTRICAL BOARDING LEVEL LIGHTING PLAN ZONE 1
E1-153	SCHEDULE 1 - ELECTRICAL BOARDING LEVEL LIGHTING PLAN ZONE 2
E1-157	SCHEDULE 1 - ELECTRICAL CLERESTORY LEVEL LIGHTING PLAN
E1-161	SCHEDULE 1 - ELECTRICAL BOARDING LEVEL AUXILIARY SYSTEMS ZONE 1
E1-162	SCHEDULE 1 - ELECTRICAL BOARDING LEVEL AUXILIARY SYSTEMS ZONE 2
E1-163	SCHEDULE 1 - ELECTRICAL BOARDING LEVEL AUXILIARY SYSTEMS ZONE 3
E1-171	SCHEDULE 1 - ELECTRICAL ROOF PLAN ZONE 1
E1-172	SCHEDULE 1 - ELECTRICAL ROOF PLAN ZONE 2
E1-173	SCHEDULE 1 - ELECTRICAL ROOF PLAN ZONE 3
E1-401	SCHEDULE 1 - ELECTRICAL ENLARGED ELECTRICAL ROOM PLANS
E1-402	SCHEDULE 1 - ELECTRICAL GENERATOR & UTILITY XFMR PLANS
E1-403	SCHEDULE 1 - ELECTRICAL ENLARGED PLANS - MECHANICAL A4
ED2-111	SCHEDULE 2 - ELECTRICAL RAMP LEVEL DEMO PLAN ZONE 1
ED2-112	SCHEDULE 2 - ELECTRICAL RAMP LEVEL DEMO PLAN ZONE 2
ED2-113	SCHEDULE 2 - ELECTRICAL RAMP LEVEL DEMO PLAN ZONE 3
ED2-114	SCHEDULE 2 - ELECTRICAL RAMP LEVEL DEMO PLAN ZONE 4
ED2-115	SCHEDULE 2 - ELECTRICAL RAMP LEVEL DEMO PLAN ZONE 5
ED2-121	SCHEDULE 2 - ELECTRICAL BOARDING LEVEL DEMO PLAN ZONE 1
ED2-123	SCHEDULE 2 - ELECTRICAL BOARDING LEVEL DEMO PLAN ZONE 3
ED2-124	SCHEDULE 2 - ELECTRICAL BOARDING LEVEL DEMO PLAN ZONE 4
ED2-125	SCHEDULE 2 - ELECTRICAL BOARDING LEVEL DEMO PLAN ZONE 5
E2-110	SCHEDULE 2 - ELECTRICAL RAMP LEVEL OVERALL PLAN
E2-111	SCHEDULE 2 - ELECTRICAL RAMP LEVEL POWER PLAN ZONE 1
E2-113	SCHEDULE 2 - ELECTRICAL RAMP LEVEL POWER PLAN ZONE 3
E2-114	SCHEDULE 2 - ELECTRICAL RAMP LEVEL POWER PLAN ZONE 4
E2-115	SCHEDULE 2 - ELECTRICAL RAMP LEVEL POWER PLAN ZONE 5
E2-121	SCHEDULE 2 - ELECTRICAL RAMP LEVEL LIGHTING PLAN ZONE 1
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E2-134	SCHEDULE 2 - ELECTRICAL RAMP LEVEL AUXILIARY SYSTEMS ZONE 4
E2-135	SCHEDULE 2 - ELECTRICAL RAMP LEVEL AUXILIARY SYSTEMS ZONE 5
E2-140	SCHEDULE 2 - ELECTRICAL BOARDING LEVEL OVERALL PLAN
E2-141	SCHEDULE 2 - ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 1
E2-142	SCHEDULE 2 - ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 2
E2-143	SCHEDULE 2 - ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 3
E2-144	SCHEDULE 2 - ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 4
E2-145	SCHEDULE 2 - ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 5
E2-151	SCHEDULE 2 - ELECTRICAL BOARDING LEVEL LIGHTING PLAN ZONE 1
E2-153	SCHEDULE 2 - ELECTRICAL BOARDING LEVEL LIGHTING PLAN ZONE 3
E2-154	SCHEDULE 2 - ELECTRICAL BOARDING LEVEL LIGHTING PLAN ZONE 4
E2-155	SCHEDULE 2 - ELECTRICAL BOARDING LEVEL LIGHTING PLAN ZONE 5
E2-156	SCHEDULE 2 - ELECTRICAL BOARDING LEVEL LIGHTING PLAN ZONE 6
E2-161	SCHEDULE 2 - ELECTRICAL BOARDING LEVEL AUXILIARY SYSTEMS ZONE 1
E2-163	SCHEDULE 2 - ELECTRICAL BOARDING LEVEL AUXILIARY SYSTEMS ZONE 3
E2-164	SCHEDULE 2 - ELECTRICAL BOARDING LEVEL AUXILIARY SYSTEMS ZONE 4
E2-165	SCHEDULE 2 - ELECTRICAL BOARDING LEVEL AUXILIARY SYSTEMS ZONE 5
E2-171	SCHEDULE 1 - ELECTRICAL ROOF PLAN ZONE 1
E2-173	SCHEDULE 1 - ELECTRICAL ROOF PLAN ZONE 3
E2-174	SCHEDULE 1 - ELECTRICAL ROOF PLAN ZONE 4
E-501	ELECTRICAL DETAILS
E-502	ELECTRICAL DETAILS
E-503	ELECTRICAL DETAILS
E-504	ELECTRICAL DETAILS
E-601	ELECTRICAL LUMINAIRE AND DIMMER SCHEDULE
E-602	ELECTRICAL EQUIPMENT CIRCUITRY SCHEDULES
E-603	ELECTRICAL PANEL SCHEDULES
E-604	ELECTRICAL PANEL SCHEDULES
E-605	ELECTRICAL PANEL SCHEDULES
E-606	ELECTRICAL PANEL SCHEDULES
E-701	ELECTRICAL POWER RISER DIAGRAM
E-702	ELECTRICAL POWER RISER DIAGRAM
E-703	ELECTRICAL MISCELLANEOUS RISER DIAGRAMS
E-801	ELECTRICAL PA ZONE COVERAGE PLAN

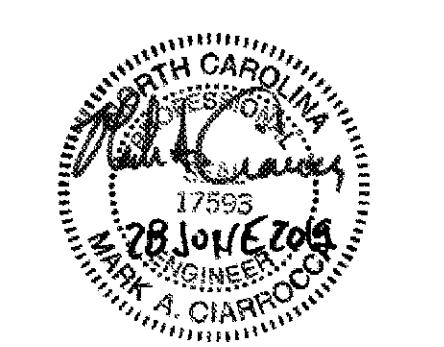


**TERMINAL IMPROVEMENTS CONTRACT 3**

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BAGGAGE HANDLING CONSULTANTS  
**BNP**

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**DK CONSULTANTS**

SPECIALTY LIGHTING CONSULTANT  
**HARTRANFT**

SIGNAGE & WAYFINDING  
**TAKEFORM**

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REVISIONS

DATE 06/28/19  
PROJECT NUMBER 9202-000  
SHEET TITLE

**ELECTRICAL NOTES, SHEET LIST, & APPENDIX B SUMMARY**

**SHEET NUMBER E-001**

**APPENDIX B, BUILDING CODE SUMMARY**  
**ELECTRICAL SUMMARY FOR BUILDING ADDITION**

METHOD OF COMPLIANCE  
-ENERGY CODE:  PRESCRIPTIVE  PERFORMANCE  
-ASHRAE 90.1:  PRESCRIPTIVE  PERFORMANCE

LIGHTING SCHEDULE  
Lamp Type Required in Fixtures: \_\_\_\_\_  
Number of Lamps in Fixtures: \_\_\_\_\_  
Ballast Type Used in Fixtures: \_\_\_\_\_  
Number of Ballasts Used in Fixtures: \_\_\_\_\_  
Total Wattage per Fixture: \_\_\_\_\_  
SEE LIGHT FIXTURE / LUMINAIRE SCHEDULE

TOTAL WATTAGE SPECIFIED VERSUS ALLOWED  
Interior Specified: 55,336 Watts  
Interior Allowed: 74,294 Watts  
Exterior Specified: 7,467 Watts  
Exterior Allowed: 17,035 Watts

ADDITIONAL METHOD OF COMPLIANCE  
 508.2.1 More Efficient Mechanical Equipment  
 508.2.2 Reduced Lighting Power Density  
 508.2.3 Energy Recovery Ventilation System  
 508.2.4 Higher Efficiency Service Water Heating  
 508.2.5 On-Site Supply of Renewable Energy  
 508.2.6 Automatic Daylighting Control Systems

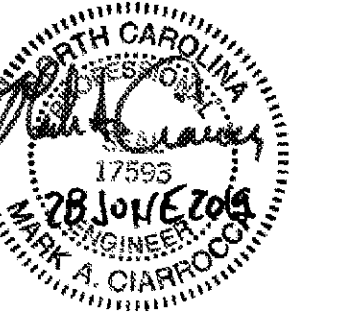
DESIGNER STATEMENT  
To the best of my knowledge and belief, the design of this building complies with the electrical systems and equipment requirements of the North Carolina State Building Code, Section 505 of the North Carolina Energy Conservation Code.

SIGNED: *Mark A. Clarno*  
NAME: Mark A. Clarno, P.E.  
TITLE: Engineer

**WARNING**

Maximum Available Fault Current:  
30,377 Symmetrical RMS Amperes  
Date: 06/28/2019  
Based on:  
Utility Transformer: 1500 kVA (Maximum)  
Utility Transformer: 5.32% Impedance (Minimum)  
Service Feeder: #600KCMIL (6 SETS)(Maximum) Copper  
Service Feeder Length: 390 (Minimum)  
Motor Load: 600 kVA (Maximum)

**FAULT CURRENT LABEL FOR SERVICE EQUIPMENT**  
NO SCALE



**MISC. ELECTRICAL SYMBOL LEGEND**

	ENCLOSED CIRCUIT BREAKER, NEMA 1 (UNO), AMPERAGE AS INDICATED OR BASED ON SUPPLY CIRCUIT RATING.
	EQUIPMENT CONNECTION
	SAFETY SWITCH DISCONNECT, HEAVY-DUTY, NON-FUSED, NEMA 1 INSIDE, NEMA 4X OUTSIDE (UNO), AMPERAGE AS INDICATED OR BASED ON SUPPLY CIRCUIT BREAKER RATING.
	SAFETY SWITCH DISCONNECT, HEAVY-DUTY, FUSED AT NAMEPLATE RATING OF EQUIPMENT SERVED, NEMA 1 INSIDE, NEMA 4X OUTSIDE (UNO), AMPERAGE AS INDICATED OR BASED ON SUPPLY CIRCUIT BREAKER RATING.
	MANUAL MOTOR STARTER, SIZED IN ACCORDANCE WITH NAMEPLATE RATING OF EQUIPMENT SERVED
	PANELBOARD, SEE PANEL SCHEDULE
	TRANSFORMER, DRY TYPE, RATINGS INDICATED. PROVIDE 4" CONCRETE HOUSE KEEPING PAD IF A FLOOR MOUNTED UNIT IS PROVIDED.
	GROUND ROD, 3/4" X 10' COPPER CLAD. WHERE TWO RODS ARE INDICATED, SPACE A MINIMUM OF 20' APART.
	DOOR OPERATOR PUSHBUTTON STATION.



LETTER INDICATES ELEVATION OR DETAIL NUMBER INDICATES PLAN OR SECTION SHEET NUMBER WHERE PLAN, SECTION, ELEVATION OR DETAIL IS DRAWN

**RECEPTACLE LEGEND**

SYMBOL	NEMA	VOLTS	DESCRIPTION
	5-20R	120V 1P 2W	DUPLEX, MTD 18" AFF UNO
	5-20R	120V 1P 2W	DUPLEX, MTD TO CEILING STRUCTURE FOR CATWALK MAINTENANCE.
	5-20R	120V 1P 2W	DUPLEX FOR CONDENSATE PUMP; COORDINATE LOCATION W/ MECH CONTRACTOR
	5-20R	120V 1P 2W	DUPLEX GFCI, MTD 6" ABOVE COUNTER HEIGHT UNO
	5-20R	120V 1P 2W	DUPLEX ELECTRIC WATER COOLER OUTLET; SUPPLY FROM GFCI TYPE C/B; COORDINATE MTD LOCATION TO CONCEAL OUTLET WHEN COOLER IS INSTALLED.
	5-20R	120V 1P 2W	DUPLEX GFCI, MTD 18" AFF UNO; LISTED WEATHER-RESISTANT TYPE; PROVIDE CAST ALUMINUM WEATHERPROOF IN-USE COVER WITH CAST ALUMINUM FD WEATHERPROOF BOX.
	5-20R	120V 1P 2W	DUPLEX FOR FLIGHT INFORMATION DISPLAY. LOCATED BEHIND TV MOUNT IN RECESSED LDD OUTLET BOX (COORDINATE SPECIFIC LOCATION AND HEIGHT WITH OWNER/ARCHITECT). SEE AUXILIARY SYSTEMS PLANS FOR SHARED BOX WITH DATA OUTLET. DESIGN BASIS ARLINGTON #TVBS613 WITH COVER. SEE DETAIL J/E-501.
	5-20R	120V 1P 2W	DUPLEX GFCI FOR HEAT TRACE; LISTED WEATHER-RESISTANT TYPE; PROVIDE CAST ALUMINUM WEATHERPROOF IN-USE COVER WITH CAST ALUMINUM FD WEATHERPROOF BOX.
	5-20R	120V 1P 2W	DUPLEX, MTD IN POKE-THRU ASSEMBLY; SEE AUX SYS PLANS FOR SHARED ASSEMBLY; 6" POKE-THRU WITH 3-GANG CAPACITY; COVER FINISH SELECTION BY ARCHITECT.
	5-20R	120V 1P 2W	DUPLEX FOR REFRIGERATOR; MOUNT 48" AFF UNO. SUPPLY FROM GFCI TYPE C/B.
	5-20R	120V 1P 2W	DUPLEX POWER FOR SUMP PUMP ALARM PANEL. COORDINATE EXACT LOCATION WITH OWNER.
	5-20R	120V 1P 2W	TSA TDC/CAT OUTLET (G); 5-20R DUPLEX, MTD IN 8" POKE-THRU ASSEMBLY; COVER FINISH SELECTION BY ARCHITECT. SEE TSA OUTLETS DETAIL A-503.
	5-20R	120V 1P 2W	TSA STSO OUTLET (P); 5-20R DUPLEX MTD IN 8" POKE-THRU ASSEMBLY; SEE AUX SYS PLANS FOR SHARED ASSEMBLY; COVER FINISH SELECTION BY ARCHITECT. SEE TSA OUTLETS DETAIL A-503.
	5-20R	120V 1P 2W	DUPLEX, UNO MTD AT CEILING FOR TV.
		120V 1P 2W	J-BOX ABOVE CLG LEVEL FOR DDC OR MECHANICAL CONTROL POWER SOURCE
		120V 1P 2W	POWER FOR FUTURE DECORATIVE PENDANT. MOUNTED AT TOP OF CUPOLA.
		120V 1P 2W	POWER FOR EXIT LANE. COORDINATE EXACT LOCATION WITH EQUIPMENT VENDOR.
		120V 1P 2W	POWER FOR FIRE ALARM COMPONENTS
		120V 1P 2W	POWER FOR LED LIGHTED MIRROR. COORDINATE WITH ARCHITECT FOR EXACT HEIGHT AND LOCATION.
	5-20R	120V 1P 2W	QUAD, MTD 18" AFF UNO
	5-20R	120V 1P 2W	QUAD FOR BACK DISPLAY. LOCATED IN RECESSED OUTLET BOX (COORDINATE SPECIFIC LOCATION WITH OWNER/ARCHITECT). SEE AUXILIARY SYSTEMS PLANS FOR SHARED BOX WITH DATA OUTLET. DESIGN BASIS ARLINGTON #TVBS613 WITH COVER. SEE DETAIL S/E-502.
	5-20R	120V 1P 2W	QUAD, MTD IN FLUSH FLOOR BOX; SEE AUX SYS PLANS FOR SHARED BOX; PROVIDE DIVIDER FOR POWER SEPARATION FROM VOICE/DATA
	5-20R	120V 1P 2W	QUAD; MTD IN POKE-THRU ASSEMBLY; SEE AUX SYS PLANS FOR SHARED ASSEMBLY; 8" POKE-THRU WITH 4-GANG CAPACITY; COVER FINISH SELECTION BY ARCHITECT.
	5-20R	120V 1P 2W	TSA DURESS OUTLET (F); QUAD; MTD 18" AFF UNO. SEE TSA OUTLETS DETAIL A-503.
	5-20R	120V 1P 2W	SIMPLEX OUTLET FOR SUMP PUMP; SUPPLIED FROM GFCI C/B; MOUNT 24" AFF/AFG.
	L5-30R	120V 1P 2W	DATA ROOM RECEPTACLE. MOUNT TO TOP OF RACK.
		120V 1P 2W	TSA FRONT XRAY OUTLET (A), 5-20R DUPLEX & L5-15R TWISTLOCK MTD IN 8" POKE-THRU ASSEMBLY; SEE AUX SYS PLANS FOR SHARED ASSEMBLY; COVER FINISH SELECTION BY ARCHITECT. SEE TSA OUTLETS DETAIL A-503.
		120V 1P 2W	TSA REAR XRAY OUTLET (B), (3) 5-20R DUPLEX, (1) 5-20R SIMPLEX, & (1) L5-30R TWISTLOCK MOUNTED IN 10" POKE-THRU ASSEMBLY; VERIFY SPACING REQUIREMENTS WITH MANUFACTURER FOR MINIMUM DISTANCE FROM ADJACENT DATA POKE-THRU; COVER FINISH SELECTION BY ARCHITECT. SEE TSA OUTLETS DETAIL A-503.
		120V 1P 2W	TSA AVS/BLS/ETD OUTLET (C), 5-20R DUPLEX MTD IN 8" POKE-THRU ASSEMBLY; SEE AUX SYS PLANS FOR SHARED ASSEMBLY; COVER FINISH SELECTION BY ARCHITECT. SEE TSA OUTLETS DETAIL A-503.
	L6-30R	208V 2P 2W	POWER FOR TSA IT CABINET
		120V 1P 2W	EXHAUST FAN; SEE MECHANICAL SCHEDULE. PROVIDE POWER PACK FOR SWITCHING WITH LIGHTING CEILING OCCUPANCY SENSOR.

**SWITCH LEGEND**

SYMBOL	DESCRIPTION	NOTES
	DIMMER SWITCH	RATED FOR VOLTAGE WHERE APPLIED, 20A; MTD 42" AFF UNO
	DIMMER SWITCH FOR 3-WAY CONTROL	RATED FOR VOLTAGE WHERE APPLIED, 20A; MTD 42" AFF UNO
	4-WAY SWITCH	RATED FOR VOLTAGE WHERE APPLIED, 20A; MTD 42" AFF UNO; WHERE SHOWN PAIRED, PROVIDE DUAL LEVEL SWITCHING.
	LOW VOLTAGE SWITCH; MTD 42" AFF UNO	CONNECT VIA LOW VOLTAGE BUS TO LIGHTING CONTROL SYSTEM; VERIFY CABLE REQUIREMENTS WITH VENDOR; SEE PLAN NOTES FOR CONTROL INFO.
	OCCUPANCY SENSOR WALL SWITCH, DIMMER; DUAL TECHNOLOGY	RATED FOR VOLTAGE WHERE APPLIED, 20A; MTD 42" AFF UNO
	OCCUPANCY SENSOR WALL SWITCH, SINGLE CKT, DUAL TECHNOLOGY	RATED FOR VOLTAGE WHERE APPLIED, 20A; MTD 42" AFF UNO
	OCCUPANCY SENSOR, DUAL TECHNOLOGY, WALL MTD 10" AFF UNO	INCORPORATE POWER PACK FOR CIRCUITRY SWITCHING, SEE WIRING DIAGRAMS
	OCCUPANCY SENSOR, DUAL TECHNOLOGY; CEILING MTD	INCORPORATE POWER PACK FOR CIRCUITRY SWITCHING, SEE WIRING DIAGRAMS
	PHOTOCELL, EXTERIOR; MOUNT ON NORTH FACE OF BLDG, FACING NORTH	
	FAA PHOTOCELL, EXTERIOR; MOUNT ON NORTH FACE OF BLDG, FACING NORTH	
	TOGGLE SWITCH, SINGLE POLE	RATED FOR VOLTAGE WHERE APPLIED, 20A; MTD 42" AFF UNO
	3-WAY SWITCH	RATED FOR VOLTAGE WHERE APPLIED, 20A; MTD 42" AFF UNO

**FIRE ALARM LEGEND**

SYMBOL	DESCRIPTION	MOUNTING
	AMPLIFIER	WALL
	CONTROL / RELAY MODULE	
	RELAY MODULE FOR DOOR RELEASE ON FIRE ALARM	ACCESS CONTROL EQUIPMENT
	CONTROL / RELAY MODULE FOR FIRE DOOR ACTIVATION	EQUIPMENT
	DUCT DETECTOR - PROVIDED BY FIRE ALARM VENDOR	BY MECH CONTRACTOR
	FIELD CHARGING POWER SUPPLY	WALL
	FLOW SWITCH	BY SPRINKLER CONTRACTOR
	HEAT DETECTOR	CEILING
	HEAT DETECTOR - ELEVATOR PIT, COORDINATE LOCATION WITH SPRINKLER HEAD	WALL
	HORN/STROBE, 15 CANDELA	WALL
	LOCAL OPERATOR CONSOLE	WALL
	MONITOR MODULE FOR TAMPER SWITCH	
	MONITOR MODULE FOR MONITORING A DRY CONTACT CLOSURE DEVICE	
	PULL STATION	WALL
	REMOTE INDICATOR WITH TEST SWITCH FOR DUCT DETECTOR	CEILING / WALL
	SMOKE DETECTOR	CEILING
	SMOKE DETECTOR	WALL
	TAMPER SWITCH	BY SPRINKLER CONTRACTOR

**FIRE ALARM AV LEGEND**

SYMBOL	DESCRIPTION	MOUNTING
	SPEAKER 1/4 WATT - 8 WATT MULTI TAP SPEAKER	CEILING MTD
	SPEAKER STROBE 1/2 WATT, 15 CANDELA	CEILING MTD
	SPEAKER STROBE 1/2 WATT, 30 CANDELA	CEILING MTD
	SPEAKER STROBE 1/2 WATT, 75 CANDELA	CEILING MTD
	SPEAKER STROBE 1/4 WATT, 15 CANDELA	CEILING MTD
	SPEAKER STROBE 1/4 WATT, 30 CANDELA	CEILING MTD
	SPEAKER STROBE 1 WATT, 15 CANDELA	CEILING MTD
	SPEAKER STROBE 1 WATT, 30 CANDELA	CEILING MTD
	SPEAKER STROBE 1 WATT, 75 CANDELA	CEILING MTD
	SPEAKER STROBE 2 WATT, 75 CANDELA	CEILING MTD
	SPEAKER STROBE 2 WATT, 95 CANDELA	CEILING MTD
	SPEAKER STROBE 2 WATT, 115 CANDELA	CEILING MTD
	SPEAKER STROBE 2 WATT, 177 CANDELA	CEILING MTD
	SPEAKER STROBE 1/2 WATT, 15 CANDELA	WALL MTD
	SPEAKER STROBE 1/2 WATT, 30 CANDELA	WALL MTD
	SPEAKER STROBE 1 WATT, 15 CANDELA	WALL MTD
	SPEAKER STROBE 1 WATT, 30 CANDELA	WALL MTD
	SPEAKER STROBE 1 WATT, 75 CANDELA	WALL MTD
	SPEAKER STROBE 2 WATT, 95 CANDELA	WALL MTD
	SPEAKER STROBE 2 WATT, 115 CANDELA	WALL MTD
	SPEAKER STROBE 2 WATT, 177 CANDELA	WALL MTD
	STROBE 15 CANDELA	WALL MTD

**PA AND SECURITY LEGEND**

SYMBOL	DESCRIPTION	MOUNTING	NOTES
	DEMO PA SPEAKER	CEILING	
	CARD READER, BIOMETRIC	4" SQUARE BOX RECESSED	INSTALL 3/4" C AND CABLE TO ROOM BUILDING MANAGEMENT A111
	CARD READER, NON-BIOMETRIC	4" SQUARE BOX RECESSED	INSTALL 3/4" C AND CABLE TO ROOM BUILDING MANAGEMENT A111
	SECURITY CAMERA, 3-SENSOR	CEILING; 4" SQUARE BOX, RECESSED	STUB 3/4" C TO INDICATED LOCATION OR NEAREST ACCESSIBLE CEILING SPACE; INSTALL CAT6 CABLE TO NEAREST ILM IT SPACE
	SECURITY CAMERA, 3-SENSOR	WALL; 4" SQUARE BOX, RECESSED; COORDINATE HEIGHT W/ ARCHITECT	STUB 3/4" C TO INDICATED LOCATION OR NEAREST ACCESSIBLE CEILING SPACE; INSTALL CAT6 CABLE TO NEAREST ILM IT SPACE
	SECURITY CAMERA, 4-SENSOR	CEILING; 4" SQUARE BOX, RECESSED	STUB 3/4" C TO INDICATED LOCATION OR NEAREST ACCESSIBLE CEILING SPACE; INSTALL CAT6 CABLE TO NEAREST ILM IT SPACE
	SECURITY CAMERA, 4-SENSOR	WALL; 4" SQUARE BOX, RECESSED; COORDINATE HEIGHT W/ ARCHITECT	STUB 3/4" C TO INDICATED LOCATION OR NEAREST ACCESSIBLE CEILING SPACE; INSTALL CAT6 CABLE TO NEAREST ILM IT SPACE
	SECURITY CAMERA, FIXED FOCUS	CEILING; 4" SQUARE BOX, RECESSED	STUB 3/4" C TO INDICATED LOCATION OR NEAREST ACCESSIBLE CEILING SPACE; INSTALL CAT6 CABLE TO NEAREST ILM IT SPACE
	SECURITY CAMERA, FIXED FOCUS	WALL; 4" SQUARE BOX, RECESSED; COORDINATE HEIGHT W/ ARCHITECT	STUB 3/4" C TO INDICATED LOCATION OR NEAREST ACCESSIBLE CEILING SPACE; INSTALL CAT6 CABLE TO NEAREST ILM IT SPACE
	SECURITY CAMERA, PAN-TILT-ZOOM	CEILING; 4" SQUARE BOX, RECESSED	STUB 3/4" C TO INDICATED LOCATION OR NEAREST ACCESSIBLE CEILING SPACE; INSTALL CAT6 CABLE TO NEAREST ILM IT SPACE
	CARD READER FOR BHS	COORDINATE EXACT LOCATION WITH BHS VENDOR	4" SQUARE BOX RECESSED. COORDINATE MOUNTING WHERE INDICATED AT BHS MCPS. INSTALL 3/4" C AND CABLE TO ROOM BUILDING MANAGEMENT A111.
	DOOR SWITCH / CONTACT	RECESSED	1/2" FLEXIBLE METALLIC CONDUIT CONCEALED IN DOOR FRAME HEADER TO JUNCTION BOX MTD ABOVE DOOR. INSTALL 3/4" C AND CABLE TO ROOM BUILDING MANAGEMENT A111.
	DRY CONTACTS		CONVEYOR FIRE DOOR POSITION MONITORING (OPEN & CLOSED) THROUGH BHS CONTROL PANEL. 3/4" C AND CABLE (4#14#14G) BACK TO ROOM BUILDING MANAGEMENT A111.
	ELECTRIC HINGE		1/2" FLEXIBLE METALLIC CONDUIT CONCEALED IN DOOR FRAME, TO JUNCTION BOX MTD ABOVE CEILING. PROVIDE PATHWAY THROUGH DOOR TO ACCOMMODATE CONNECTION TO ASSOCIATED ELECTRIC STRIKE.
	ELECTRIC STRIKE		FOR SINGLE DOOR, PROVIDE 1/2" FLEXIBLE METALLIC CONDUIT CONCEALED IN DOOR FRAME TO JUNCTION BOX MTD ABOVE CEILING. SEE NOTES AT ELECTRIC HINGE FOR DOUBLE DOOR CONFIGURATION.
	PA SPEAKER	CEILING/ RECESSED	

**DATA & TELEPHONE OUTLET LEGEND**

SYMBOL	DESCRIPTION	PROVIDED BY: CONTRACTOR
	DATA / TELEPHONE OUTLET FOR BACK LINEDISPLAY INFORMATION	WALL, LOCATED BEHIND BACK DISPLAY IN RECESSED LDD OUTLET BOX (COORDINATE SPECIFIC LOCATION AND MOUNTING HEIGHT WITH OWNER/ARCHITECT). SEE POWER PLANS FOR SHARED BOX WITH POWER OUTLET. DESIGN BASIS ARLINGTON #TVBS613 WITH COVER. ROUTE (4) 1" C TO IT A1112 INSTALL (5) CAT 6 CABLES TO IT ROOM A1112 AS FOLLOWS: (1) CAT 6 CABLE FOR AMERICAN AIRLINES (1) CAT 6 CABLE FOR DELTA AIRLINES (1) CAT 6 CABLE TO UNITED AIRLINES (1) CAT 6 CABLE TO ILM DATA RACK (1) CAT 6 CABLE FOR FUTURE
	DATA / TELEPHONE OUTLET FOR FLIGHT INFORMATION DISPLAY	WALL, LOCATED BEHIND FLIGHT INFORMATION DISPLAY IN RECESSED LDD OUTLET BOX (COORDINATE SPECIFIC LOCATION AND MOUNTING HEIGHT WITH OWNER/ARCHITECT). SEE POWER PLANS FOR SHARED BOX WITH POWER OUTLET. DESIGN BASIS ARLINGTON #TVBS613 WITH COVER. ROUTE 1" C TO IT A1112 (1) CAT 6 CABLE TO ILM DATA RACK (1) CAT 6 CABLE FOR FUTURE
	DATA / TELEPHONE OUTLET	WALL, 18" AFF UNO; 4" SQUARE, DEEP BOX; STUB 1" C TO 6" ABOVE CEILING INSTALL (2) CAT 6 CABLES TO IT A1112 OR TO ROOM BUILDING MANAGEMENT A11
	FUTURE DATA DROP	DATA DROP ABOVE CEILING FOR FUTURE ILM USE. INSTALL (1) CAT 6 CABLES TO IT A1112 OR TO ROOM BUILDING MANAGEMENT A11. PROVIDE 25' CABLE COIL ABOVE ACCESSIBLE CEILING. TERMINATE ENDS & LABEL AS "FUTURE ILM USE"
	DATA / TELEPHONE OUTLET	ABOVE CEILING, 4" SQUARE, DEEP BOX INSTALL (2) CAT 6 CABLES TO IT A1112 OR TO ROOM BUILDING MANAGEMENT A11
	TSA DATA / TELEPHONE OUTLET	WALL, 18" AFF UNO; 4" SQUARE, DEEP BOX; STUB 1" C TO 6" ABOVE CEILING OR DOWN THROUGH SLAB AS REQUIRED. INSTALL (2) CAT 6 CABLES TO TSA IT RACK IN RAMP LEVEL ROOM 125.
	TSA DATA OUTLET (A)	TSA FRONT XRAY OUTLET (A), 8" POKE-THROUGH ASSEMBLY WITH SHARED POWER OUTLETS. STUB 1" C DOWN THROUGH SLAB; EXTEND TO CONCEALED LOCATION AS REQUIRED. INSTALL (2) CAT 6 CABLES TO TSA IT RACK IN RAMP LEVEL TSA TRAINING ROOM 125. SEE TSA OUTLETS DETAIL A-503.
	TSA DATA OUTLET (B)	TSA REAR XRAY OUTLET (B), 8" POKE-THROUGH ASSEMBLY WITH SHARED POWER OUTLETS. STUB 1 1/2" C DOWN THROUGH SLAB; EXTEND TO CONCEALED LOCATION AS REQUIRED. INSTALL (6) CAT 6 CABLES TO TSA IT RACK IN RAMP LEVEL TSA TRAINING ROOM 125. STUB 1" C DOWN THROUGH SLAB, OVER, AND UP THROUGH SLAB AT TSA AVS/BLS/ETD FLOOR OUTLET (C). INSTALL (2) CAT 6 CABLES TO TSA AVS/BLS/ETD FLOOR OUTLET (C).
	TSA DATA OUTLET (C)	TSA AVS/BLS/ETD OUTLET (C), 8" POKE-THROUGH ASSEMBLY WITH SHARED POWER OUTLETS. SEE TSA OUTLETS DETAIL A-503. STUB 1 1/4" C DOWN THROUGH SLAB; EXTEND TO CONCEALED LOCATION AS REQUIRED. INSTALL (4) CAT 6 CABLES TO TSA IT RACK IN RAMP LEVEL TSA TRAINING ROOM 125. STUB 1" C DOWN THROUGH SLAB, OVER, AND UP THROUGH SLAB AT TSA REAR XRAY FLOOR OUTLET (B). INSTALL (2) CAT 6 CABLES TO TSA REAR XRAY FLOOR OUTLET (B).
	TSA DATA OUTLET (F)	TSA DURESS & CHRONOS CLOCK OUTLETS (F), ONE POTS PHONE LINE OUTLET (DURESS) & TWO CHRONOS CLOCK DATA OUTLETS; MTD 18" AFF UNO. STUB 1 1/4" C DOWN THROUGH SLAB; EXTEND TO CONCEALED LOCATION AS REQUIRED. INSTALL (3) CAT 6 CABLES TO TSA IT RACK IN RAMP LEVEL TSA TRAINING ROOM 125. SEE TSA OUTLETS DETAIL A-503.
	TSA DATA OUTLET (G)	TSA TDC/CAT OUTLET (G); MTD IN 8" POKE-THRU ASSEMBLY; SEE POWER PLANS FOR SHARED ASSEMBLY. INSTALL 1" C FROM POKE-THRU TO CONCE

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
 • SEE ARCHITECTURAL PLANS A-01\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.  
 • SEE BAGGAGE HANDLING SYSTEM PLANS B-\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.  
 • COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.

REMOVE EXISTING HIGHMAST HID LIGHTING AND OBSTRUCTION LIGHTS. REPLACE WITH NEW LED LIGHTS AND NEW LED OBSTRUCTION LIGHTS. REMOVE EXISTING BULLHORN BRACKET. PROVIDE NEW MOUNTING HARDWARE AND BULLHORN BRACKET FOR INSTALLATION OF NEW LED FIXTURES. SEE NEW WORK PLAN FOR LIGHT FIXTURE TYPE.

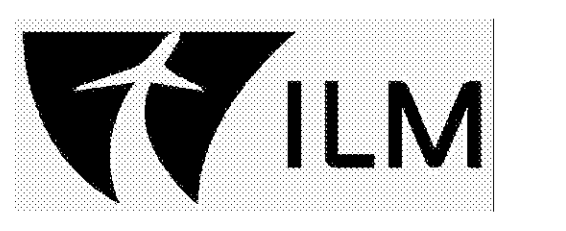
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EXISTING GENERATOR CIRCUITRY, CONTROLS, BATTERY CHARGER CIRCUITRY, BLOCK HEATER CIRCUITRY, START/STOP CIRCUITRY ALL TO BE REMOVED.

REMOVE EXISTING HIGHMAST POLE, BASE, AND CIRCUITRY.

TEMPORARY PORTABLE 500KW GENERATOR LOCATION. REMOVE AFTER INSTALLATION OF BUILDING GENERATOR.

- KEYED NOTES:**
- EXISTING GENERATOR AND ASSOCIATED CIRCUITRY TO BE REMOVED. SEE E1-111 FOR LOCATION OF TEMPORARY PORTABLE GENERATOR. COORDINATE PORTABLE GENERATOR LOCATION WITH OWNER AND ENGINEER.
  - TEMPORARY GENERATOR CIRCUITRY TO FEED ATS-2  
 (3) 3" PVC, 3#350KCMIL, #350KCMIL N, #3/DG  
 (1) 3/4" PVC, 2#12, #12G (START/STOP)
  - REUSE EXISTING CIRCUIT BREAKERS IN PANEL ELP2 FOR TEMPORARY PORTABLE GENERATOR BLOCK HEATER AND BATTERY CHARGER CIRCUITS.  
 3/4" PVC, 2#12, #12G (BLOCK HEATER) (ELP2-8,10)  
 3/4" PVC, #12, #12N, #12G (BATTERY CHARGER) (ELP2-3)
  - TEMPORARY GENERATOR CIRCUITRY TO FEED ATS-1  
 (1) 1-1/4" PVC, 3#2, #2 N, #8G  
 (1) 3/4" PVC, 2#12, #12G (START/STOP)

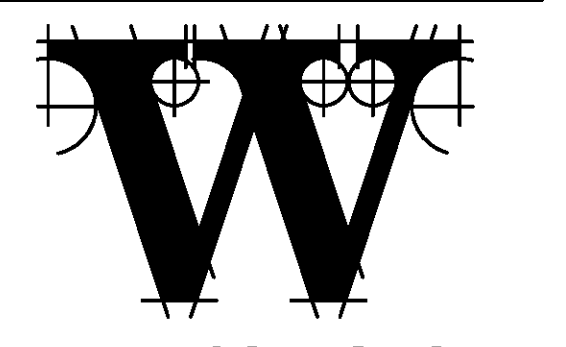
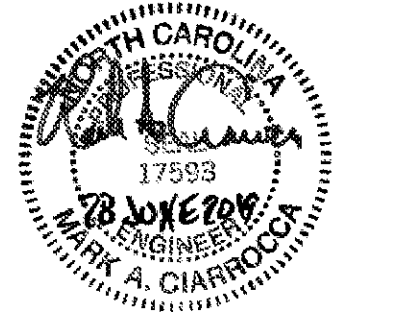


**TERMINAL IMPROVEMENTS CONTRACT 3**

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CONSULTING ARCHITECT  
**LS3P**

STRUCTURAL ENGINEER  
**STEWART**

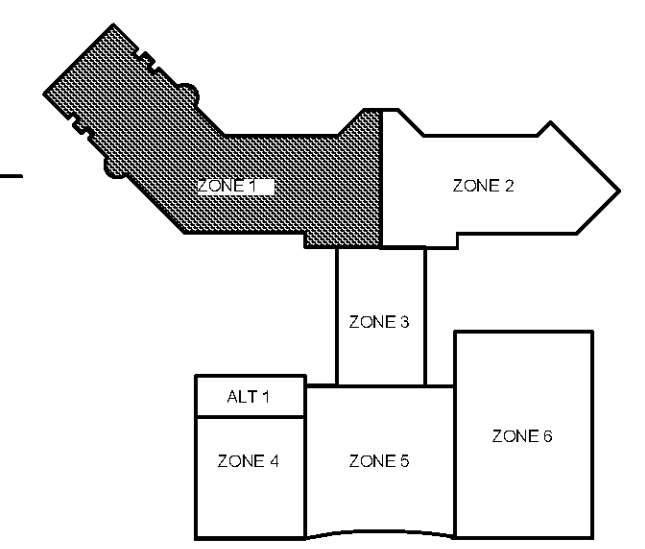
FP/PM/E ENGINEER  
**CHEATHAM & ASSOC.**

BAGGAGE HANDLING CONSULTANTS  
**BNP**

AIRCRAFT SUPPORT SYSTEMS  
**DK CONSULTANTS**

SPECIALTY LIGHTING CONSULTANT  
**HARTRANFT**

SIGNAGE & WAYFINDING  
**TAKEFORM**



**KEY PLAN**

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**REVISIONS**

DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE

**SCHEDULE 1 - ELECTRICAL RAMP LEVEL DEMOLITION PLAN ZONE 1**  
 SHEET NUMBER

**ED1-111**

**SCHEDULE 1 - ELECTRICAL RAMP LEVEL - DEMOLITION PLAN - ZONE 1**

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

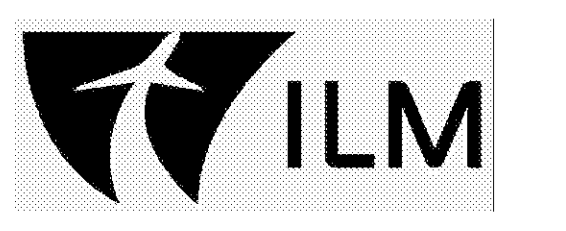
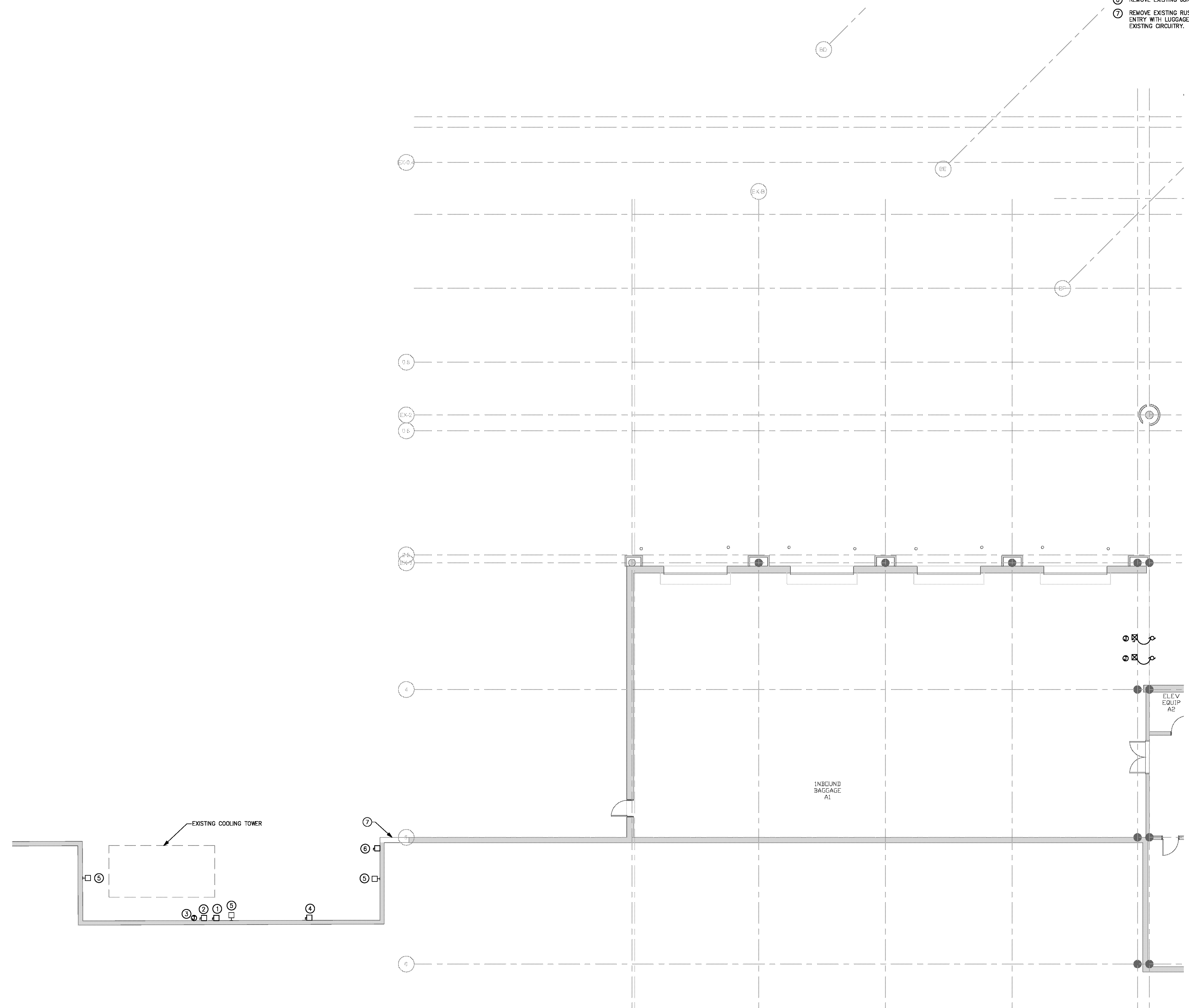
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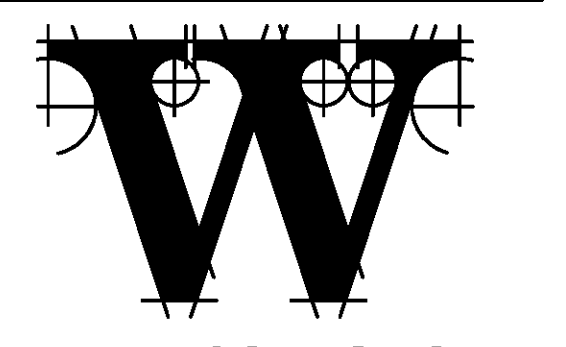
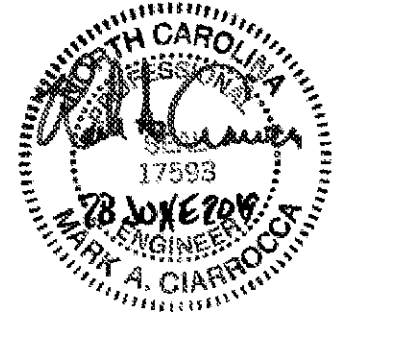
FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
 • SEE ARCHITECTURAL PLANS A-01\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.  
 • SEE BAGGAGE HANDLING SYSTEM PLANS B-\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.  
 • COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.

- KEYED NOTES (DEMOLITION WORK):
- ① REMOVE EXISTING SAFETY SWITCH & FEEDER (BACK TO IT'S SOURCE) FOR THE EXISTING CHILLER.
  - ② REMOVE EXISTING SAFETY SWITCH & FEEDER (BACK TO IT'S SOURCE) FOR THE EXISTING CHILLER SUMP HEATERS.
  - ③ REMOVE EXISTING JUNCTION BOX & CIRCUITRY (BACK TO IT'S SOURCE) FOR THE EXISTING HEAT TRACE SYSTEM.
  - ④ REMOVE EXISTING SAFETY SWITCH & CIRCUITRY BACK TO SOURCE.
  - ⑤ REMOVE EXISTING WALL SCONCES. KEEP BOX(S) AND CIRCUITRY FOR NEW FIXTURE TO BE INSTALLED.
  - ⑥ REMOVE EXISTING JUNCTION BOX & CIRCUITRY BACK TO SOURCE.
  - ⑦ REMOVE EXISTING RUSTED CONDUIT FROM FIRST LIGHT BACK TO POINT OF ENTRY WITH LUGGAGE ROOM A1 AND REPLACE WITH NEW CONDUIT. KEEP EXISTING CIRCUITRY.



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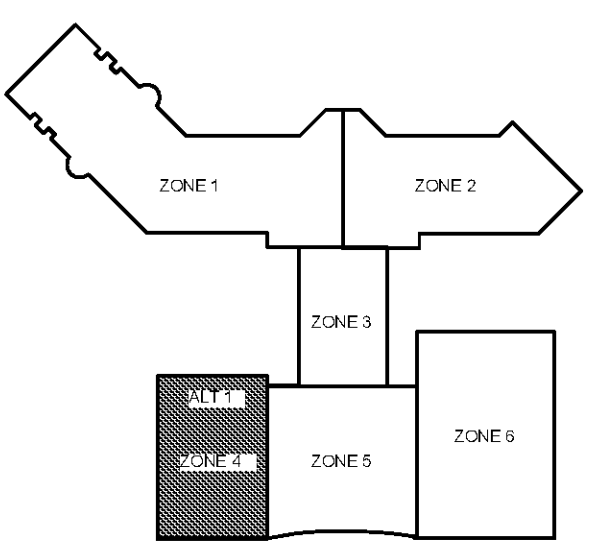
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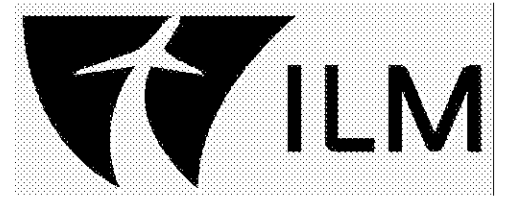
REVISIONS

DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE

**SCHEDULE 1 - ELECTRICAL RAMP LEVEL DEMOLITION PLAN ZONE 4**  
 SHEET NUMBER

**ED1-114**

- FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:
- SEE ARCHITECTURAL PLANS A-01\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.
  - SEE BAGGAGE HANDLING SYSTEM PLANS B-\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.
  - COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.

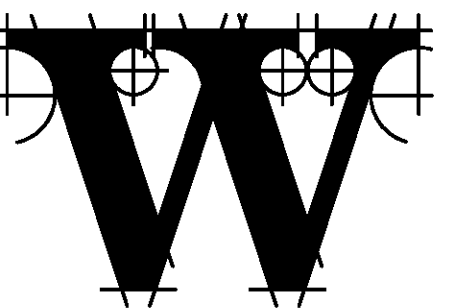
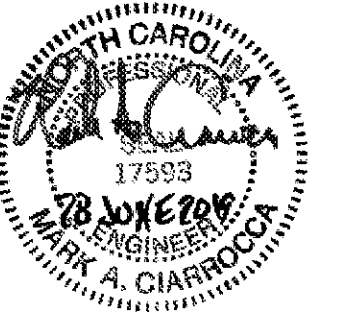


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JOB # 19005



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STRUCTURAL ENGINEER  
STEWART

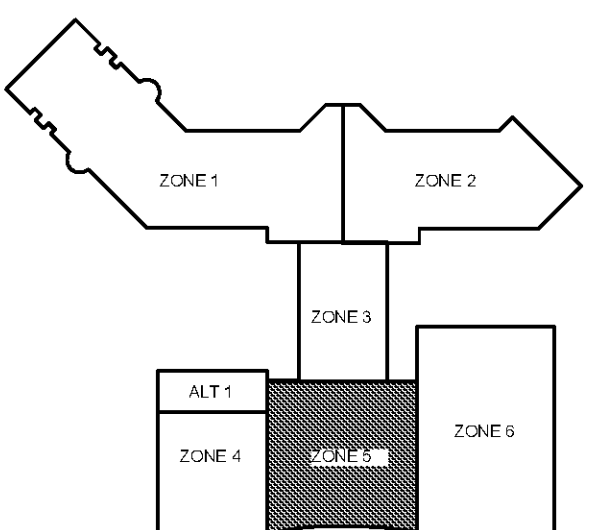
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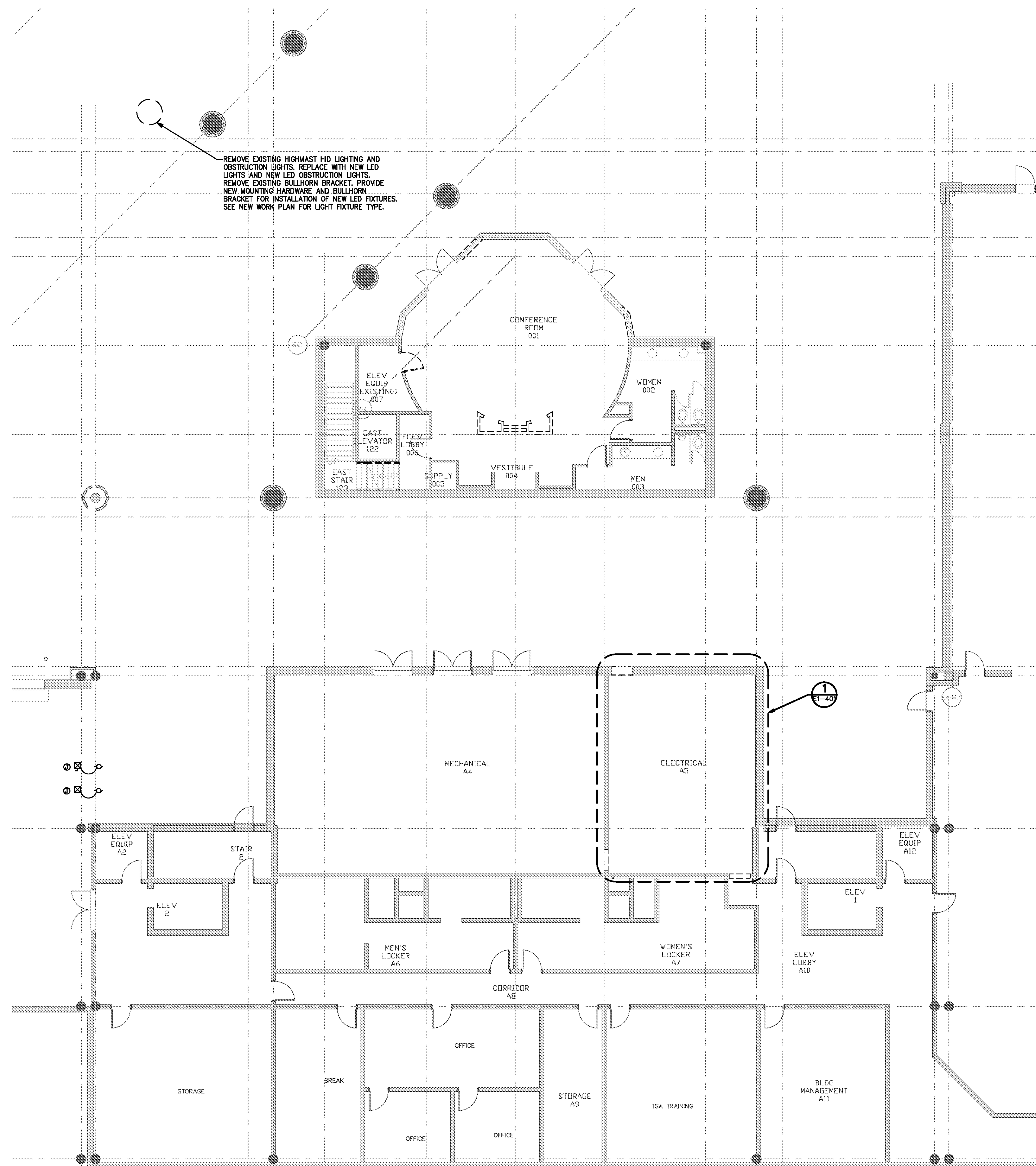
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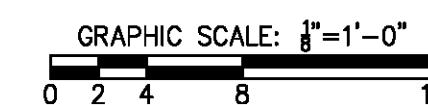
DATE 06/28/19  
PROJECT NUMBER 9202-000  
SHEET TITLE

**SCHEDULE 1 - ELECTRICAL RAMP LEVEL DEMOLITION PLAN ZONE 5**  
SHEET NUMBER

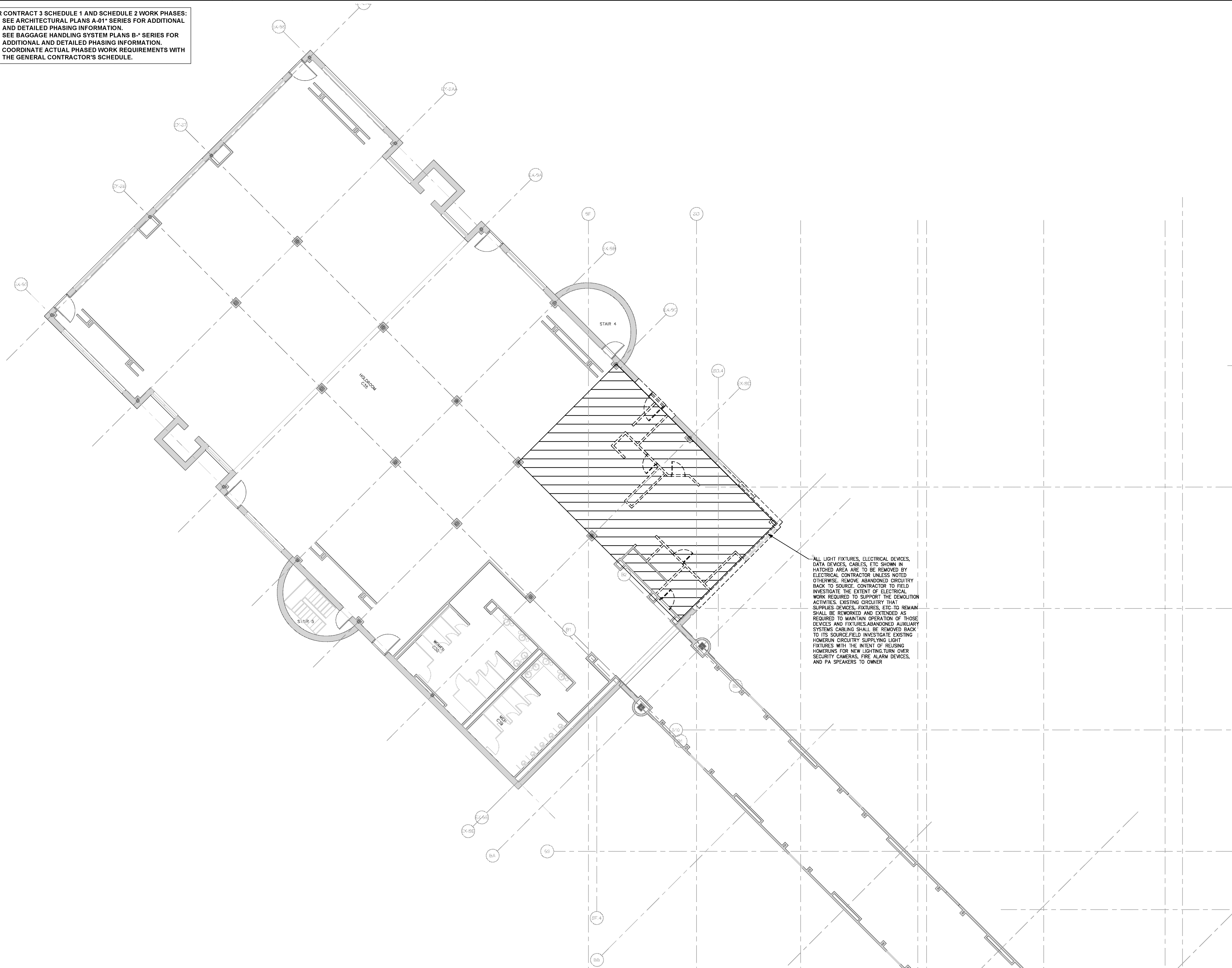
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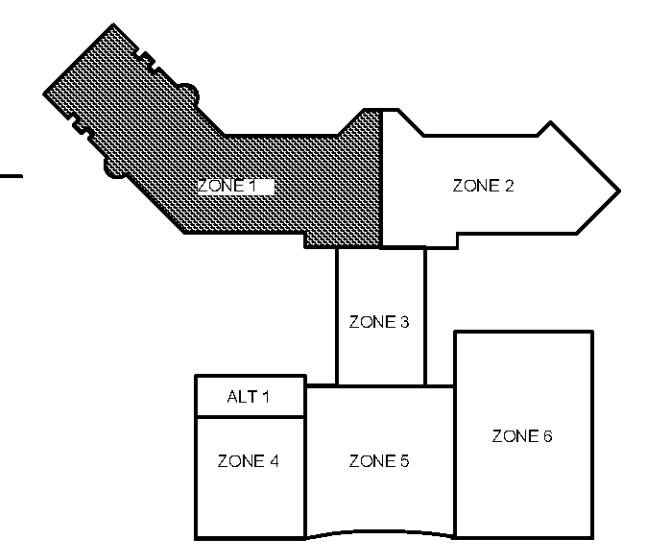
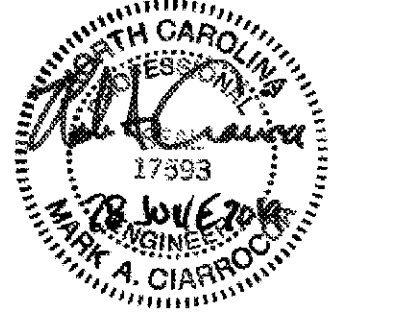
**SCHEDULE 1 - ELECTRICAL RAMP LEVEL - DEMOLITION PLAN - ZONE 5**  
SCALE: 1/8" = 1'-0"



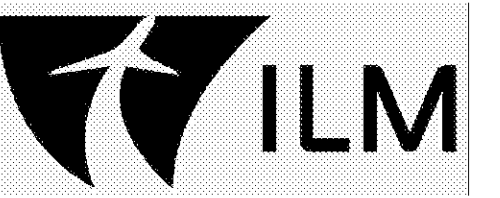
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 • SEE ARCHITECTURAL PLANS A-01\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.  
 • SEE BAGGAGE HANDLING SYSTEM PLANS B-\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.  
 • COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.



ALL LIGHT FIXTURES, ELECTRICAL DEVICES, DATA DEVICES, CABLES, ETC SHOWN IN HATCHED AREA ARE TO BE REMOVED BY ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE. REMOVE ABANDONED CIRCUITRY BACK TO SOURCE. CONTRACTOR TO FIELD INVESTIGATE THE EXTENT OF ELECTRICAL WORK REQUIRED TO SUPPORT THE DEMOLITION ACTIVITIES. EXISTING CIRCUITRY THAT SUPPLIES DEVICES, FIXTURES, ETC TO REMAIN SHALL BE REWORKED AND EXTENDED AS REQUIRED TO MAINTAIN OPERATION OF THOSE DEVICES AND FIXTURES. ABANDONED AUXILIARY SYSTEMS CABLING SHALL BE REMOVED BACK TO ITS SOURCE. FIELD INVESTIGATE EXISTING HOMERUN CIRCUITRY SUPPLYING LIGHT FIXTURES WITH THE INTENT OF REUSING HOMERUNS FOR NEW LIGHTING. TURN OVER SECURITY CAMERAS, FIRE ALARM DEVICES, AND PA SPEAKERS TO OWNER.



- FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:
- SEE ARCHITECTURAL PLANS A-01\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.
  - SEE BAGGAGE HANDLING SYSTEM PLANS B-\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.
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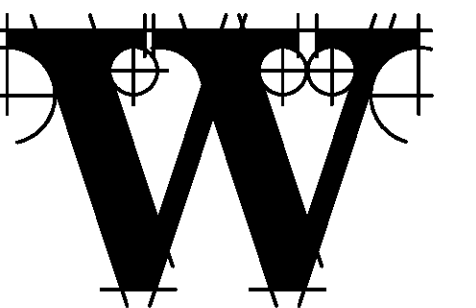
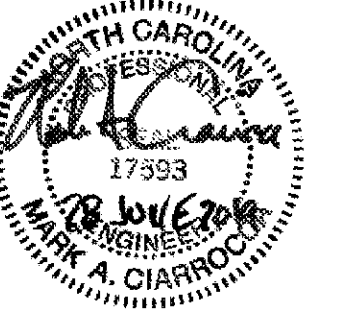


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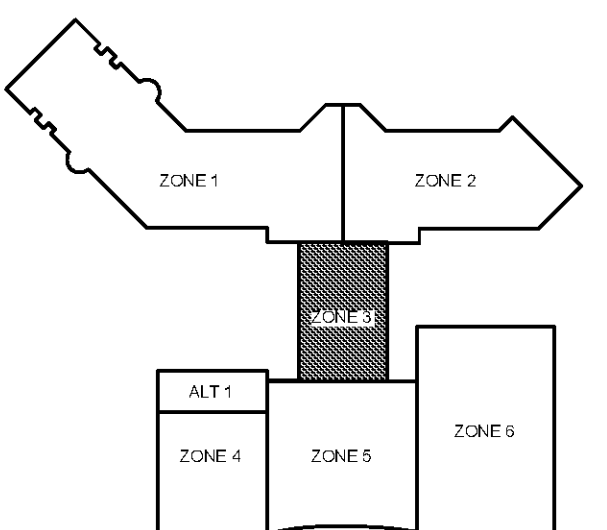
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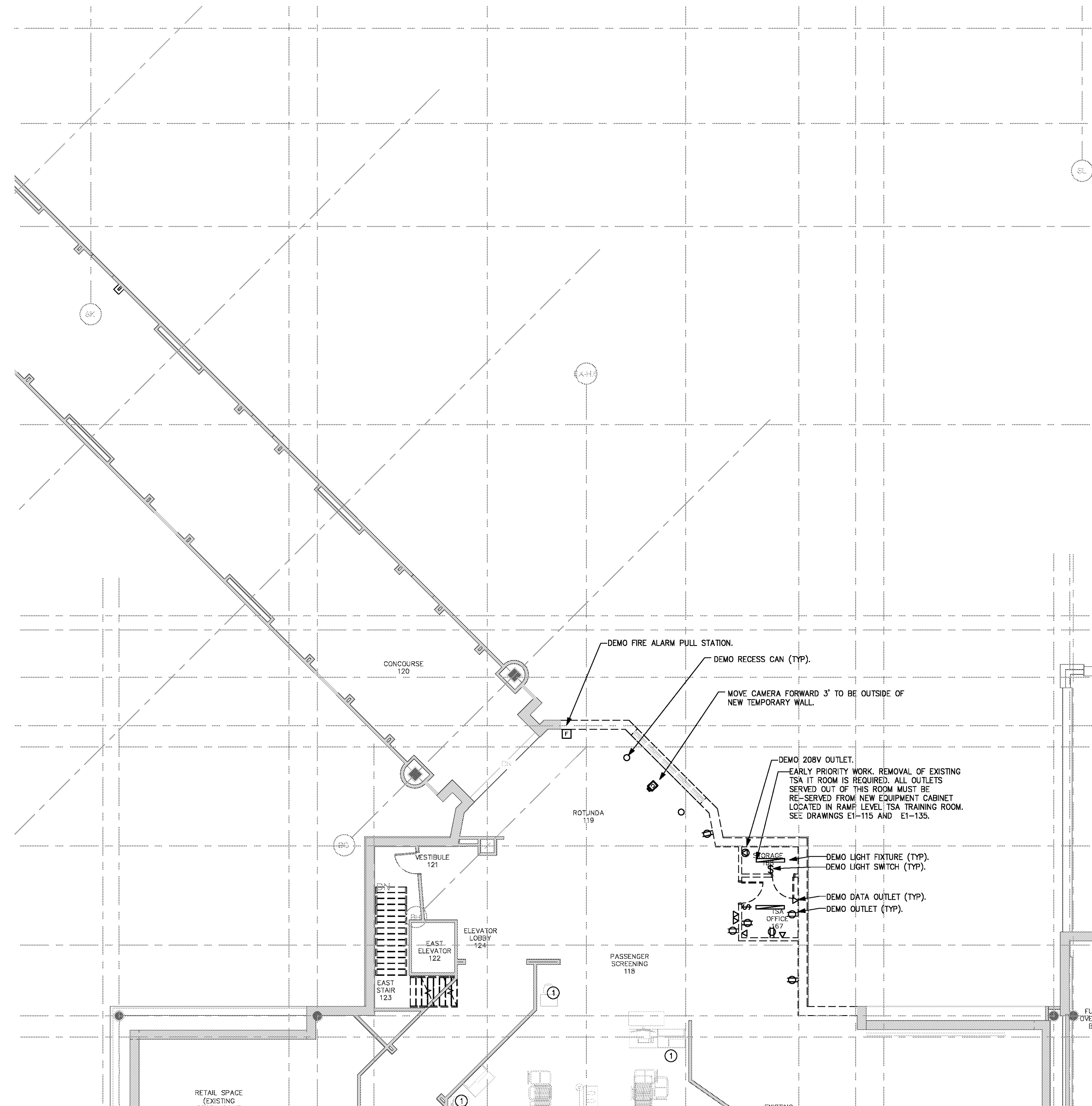


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REVISIONS



**1 SCHEDULE 1 - ELECTRICAL BOARDING LEVEL - DEMOLITION PLAN - ZONE 3**  
SCALE: 1/8" = 1'-0"



DATE 06/28/19  
PROJECT NUMBER 9202-000  
SHEET TITLE

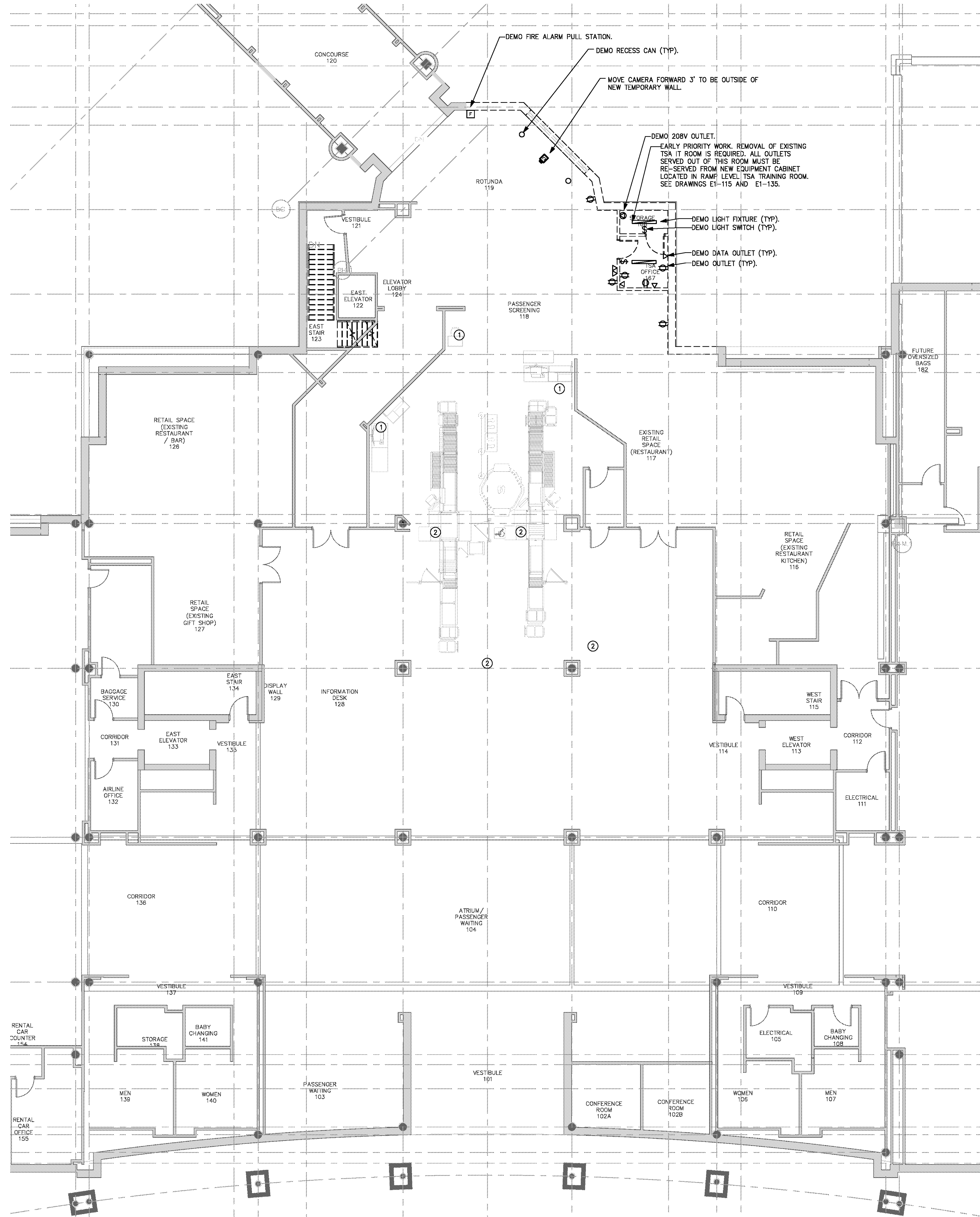
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SHEET NUMBER

**ED1-123**

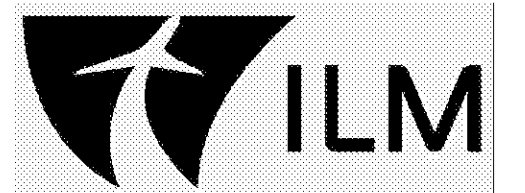
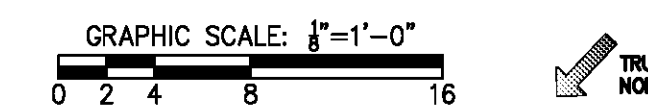
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- KEYED NOTES:
- 1 REMOVE (1) DATA CABLE BACK TO SOURCE.
  - 2 REMOVE (2) DATA CABLES BACK TO SOURCE.



**SCHEDULE 1 - ELECTRICAL BOARDING LEVEL - DEMOLITION PLAN - ZONE 5**  
 SCALE: 1/8" = 1'-0"

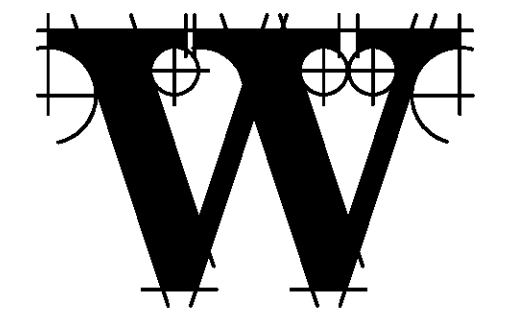
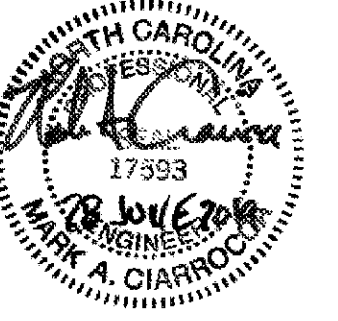


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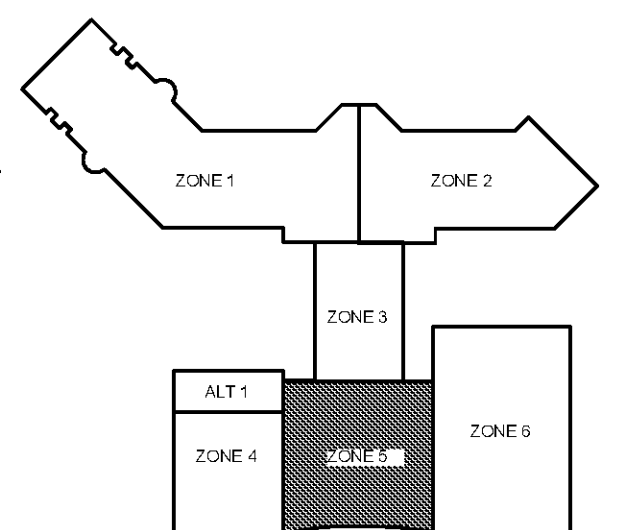
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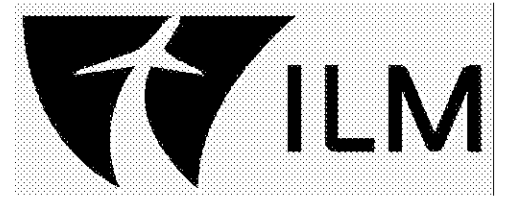
**REVISIONS**

DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE

**SCHEDULE 1 - ELECTRICAL BOARDING LEVEL DEMOLITION PLAN ZONE 5**  
 SHEET NUMBER

**ED1-125**

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
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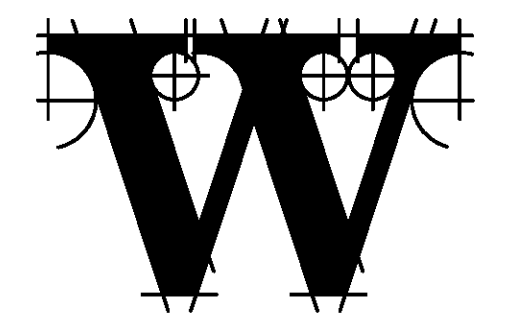
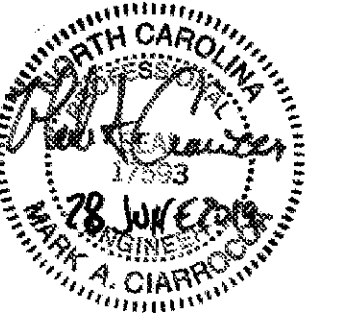


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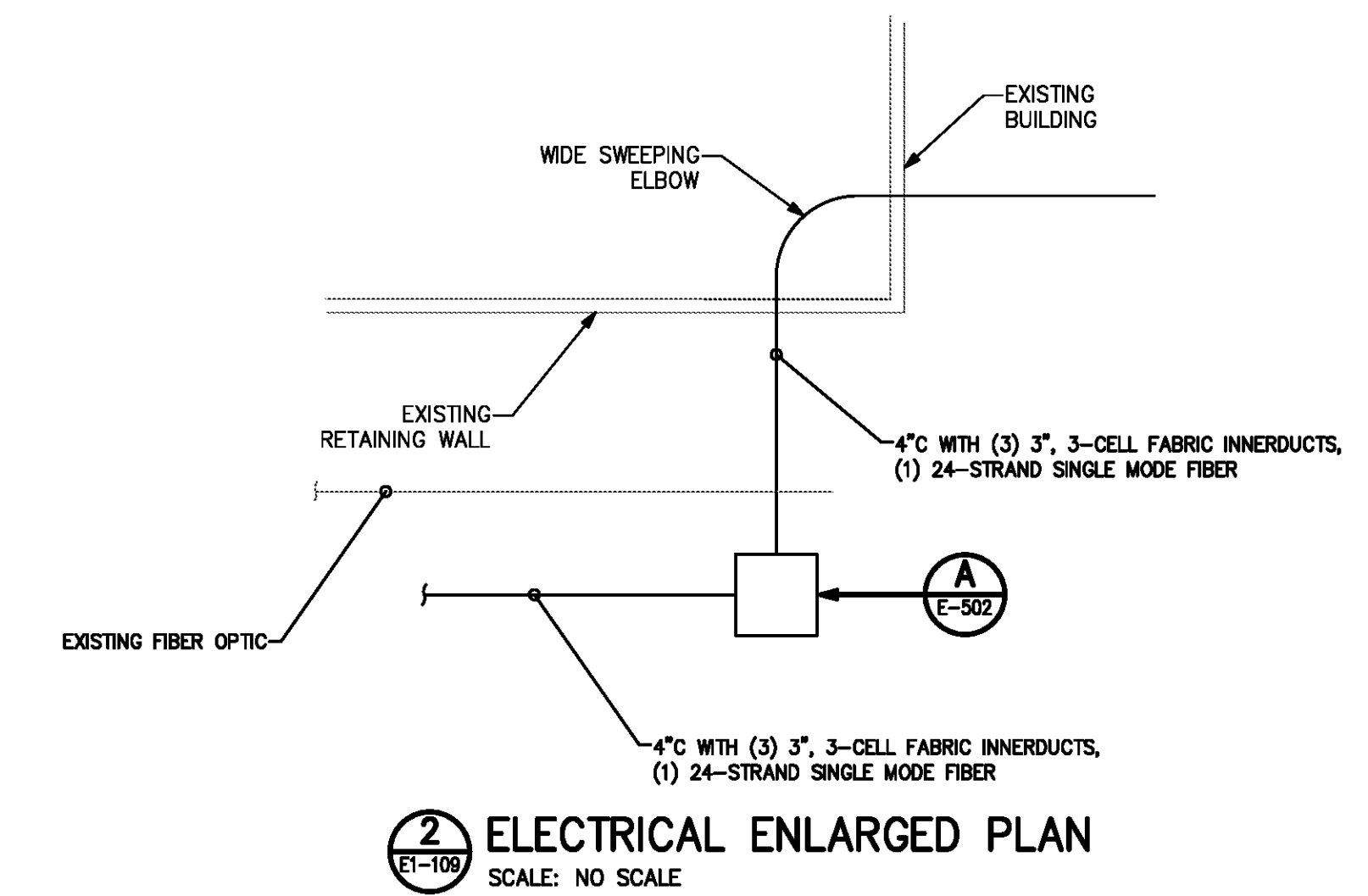
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 PROJECT NUMBER 9202-000  
 SHEET TITLE

**SCHEDULE 1 - ELECTRICAL SITE PLAN**

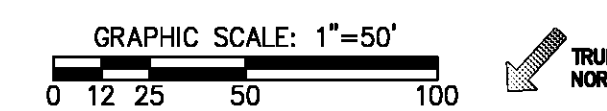
SHEET NUMBER  
**E1-109**



**2 ELECTRICAL ENLARGED PLAN**  
 SCALE: NO SCALE



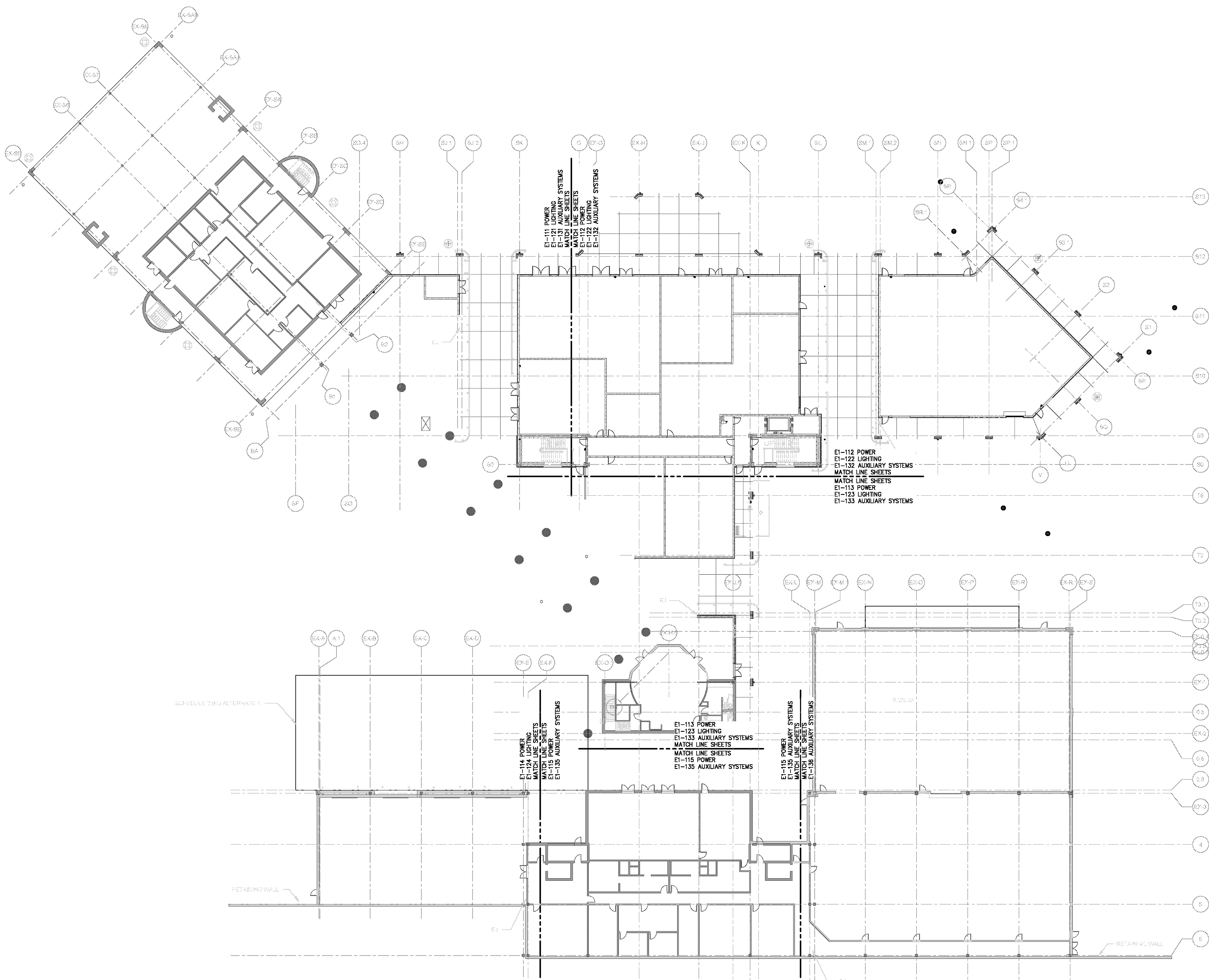
**1 ELECTRICAL SITE PLAN**  
 SCALE: 1" = 50'



**KEYED NOTES:**

- ① LIGHTING CIRCUIT TO BE CONTROLLED THROUGH EXISTING GE LIGHTING CONTROL PANEL (CATALOG #RC0V48SHL) LOCATED IN ELECTRICAL ROOM A5. SEE E2-125 FOR PANEL LOCATION. CONTRACTOR TO PROVIDE NEW RELAY. PROVIDE #10,#10N,#10G FOR OBSTRUCTION LIGHTS. OBSTRUCTION LIGHTS TO BE CIRCUITED FROM ZIB-14 AND SWITCHED THROUGH FAA PHOTOCELL. SEE E1-124 FOR LOCATION OF FAA PHOTOCELL.
- ② LIGHTING CIRCUIT TO BE CONTROLLED THROUGH EXISTING GE LIGHTING CONTROL PANEL (CATALOG #RC0V48SHL) LOCATED IN ELECTRICAL ROOM A5. SEE E2-125 FOR PANEL LOCATION. CONTRACTOR TO PROVIDE NEW RELAY. PROVIDE #10,#10N,#10G FOR OBSTRUCTION LIGHTS. OBSTRUCTION LIGHTS TO BE CIRCUITED FROM ZIB-16 AND SWITCHED THROUGH FAA PHOTOCELL. SEE E1-124 FOR LOCATION OF FAA PHOTOCELL.
- ③ 4" WITH (3) 3", 3-CELL FABRIC INNERDUCTS, (1) 24-STRAND SINGLE MODE FIBER UP TO SECOND FLOOR EQUIPMENT RACK.

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
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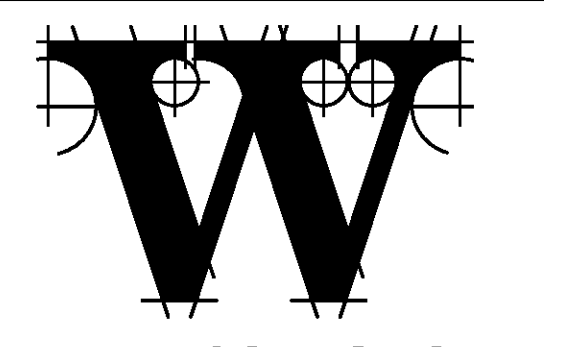


**1 SCHEDULE 1 - ELECTRICAL RAMP LEVEL - OVERALL PLAN**  
 SCALE: 1" = 20'  
 GRAPHIC SCALE: 1" = 20'  
 TRUE NORTH



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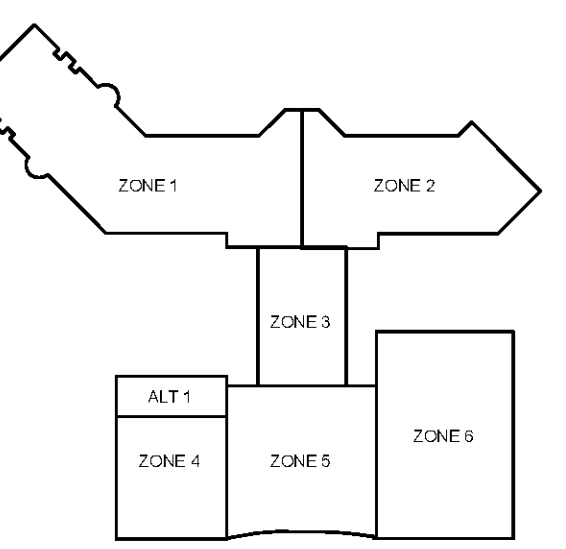
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DATE 06/28/19  
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 SHEET TITLE

**SCHEDULE 1 - ELECTRICAL RAMP LEVEL OVERALL PLAN**

SHEET NUMBER  
**E1-110**

**FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:**

- SEE ARCHITECTURAL PLANS A-01\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.
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- COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.

- KEYED NOTES:**
- TEMPORARY GENERATOR CIRCUITRY TO FEED ATS-2. CONDUITS SHALL BE SURFACE MOUNTED TO RAMP LEVEL CEILING.  
(3) 3/4" PVC, 3#350KCMIL, #350KCMIL, N, #3/0G  
(1) 3/4" PVC, 2#12, #12G (START/STOP)
  - REUSE EXISTING CIRCUIT BREAKERS IN PANEL ELP2 FOR BLOCK HEATER AND BATTERY CHARGER CIRCUITS. CONDUITS SHALL BE SURFACE MOUNTED TO RAMP LEVEL CEILING.  
3/4" PVC, 2#12, #12G (BLOCK HEATER) (ELP2-B,10)  
3/4" PVC, #12, #12N, #12G (BATTERY CHARGER) (ELP2-3)
  - TEMPORARY GENERATOR CIRCUITRY TO FEED ATS-1. CONDUITS SHALL BE SURFACE MOUNTED TO RAMP LEVEL CEILING.  
(1) 1-1/4" PVC, 3#2, #2 N, #8G  
(1) 3/4" PVC, 2#12, #12G (START/STOP)
  - PROVIDE (1) 3P/20A CIRCUIT BREAKER (SQ-D TYPE KAB) FOR WATER HEATER SHOWN ON SHEET #E1-141. EXISTING PANEL IS MANUFACTURED BY SQ-D (I-LINE TYPE HCW).

NOTE: SEE SHEET #E-602 FOR EQUIPMENT FEEDER SCHEDULES.

**JET BRIDGE POWER NOTES:**

- INSTALL NEMA 4X S.S. J-BOXES OVERHEAD ON BUILDING EXTERIOR.
- COORDINATE J-BOX LOCATIONS WITH JET BRIDGE VENDOR/INSTALLER.
- LEAVE SUFFICIENT CONDUCTOR LENGTH COILED AT J-BOXES TO REACH JET BRIDGE DISCONNECTS MOUNTED ON PEDESTAL.

**JET BRIDGE PBR**  
33KVA, 480V3P3W  
DSBC-18

**JET BRIDGE GPU**  
83KVA, 480V3P3W  
DSBC-19

**JET BRIDGE PCA**  
125KVA, 480V3P3W  
DSBC-20

**HEAT TRACE CONTROLLER #3**  
1.5KVA, 120V1P2W  
P4-32

**CHILLER-3**  
139KVA, 480V3P3W  
DSBC-5

**PUMP P-16 CHILLED**  
20HP, 480V3P3W  
M1-13,15,17

**FAN COIL FCU-18**  
FHP, 120V1P2W

**U.A. STORAGE**  
A1102

**ELECTRIC UNIT HEATER - UH-29**  
7.5KVA, 480V3P3W  
M2-14,16,18

**FAN F-31**  
2HP, 480V3P  
M1-32,34,36

**PUMP P-17 CHILLED W.**  
20HP, 480V3P3W  
M1-19,21,23

**CHILLER-4**  
139KVA, 480V3P3W  
DSBC-6

**PUMP P-19 CONDENSER WATER**  
25HP, 480V3P3W  
M1-31,33,35

**PUMP P-18 CONDENSER WATER**  
25HP, 480V3P3W  
M1-25,27,29

**ELECTRIC UNIT H**  
5KVA, 480V3P3W  
M2-8,10,12

**AHU #11 (SUPPLY)**  
5HP, 480V3P3W  
M2-43,45,47

**AHU #7**  
7.5HP, 7.5HP, 480V3P3W  
M2-49,51,53

**AHU #1 (RELIEF)**  
1.5HP, 480V3P3W  
M2-49,51,53

**ELECTRIC UNIT HEATER - UH-27**  
5KVA, 480V3P3W  
M2-2,4,6

**PUMP P-14 CHILLER PRIMARY**  
10HP, 480V3P3W  
M1-1,3,5

**STAIR 7**  
A1107

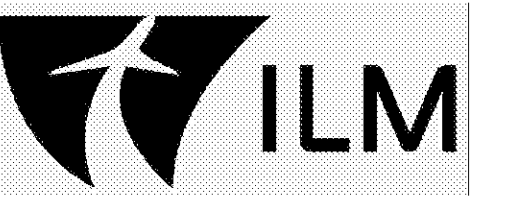
**ELECTRIC WALL HEATER - EWH #1**  
2.25KVA, 208V2P2W  
DP-44, 480V2P2W

**DHP #3**  
FHP, 5.2KVA, 208V2P2W  
P4-52,54

**SCHEDULE 1 - ELECTRICAL RAMP LEVEL - POWER PLAN - ZONE 1**

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

GRAPHIC SCALE: 1"=1'-0"

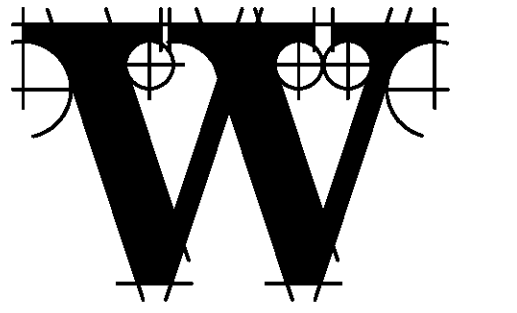
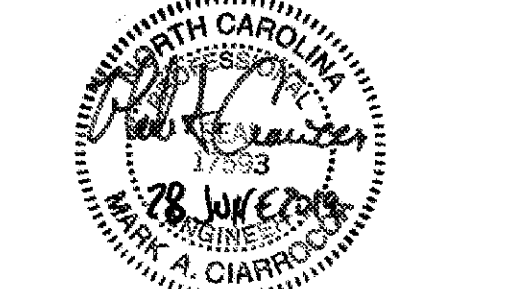


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STRUCTURAL ENGINEER  
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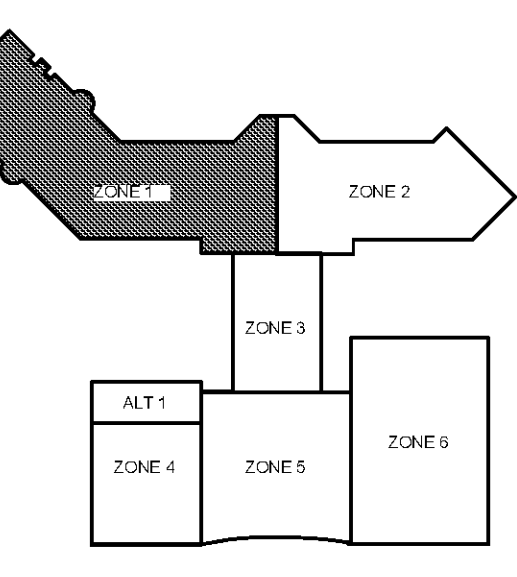
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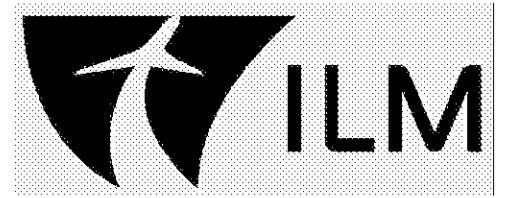
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DATE 06/28/19  
PROJECT NUMBER 9202-000  
SHEET TITLE

**SCHEDULE 1 - ELECTRICAL RAMP LEVEL POWER PLAN ZONE 1**  
SHEET NUMBER

**E1-111**

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
 • SEE ARCHITECTURAL PLANS A-01\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.  
 • SEE BAGGAGE HANDLING SYSTEM PLANS B-\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.  
 • COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.

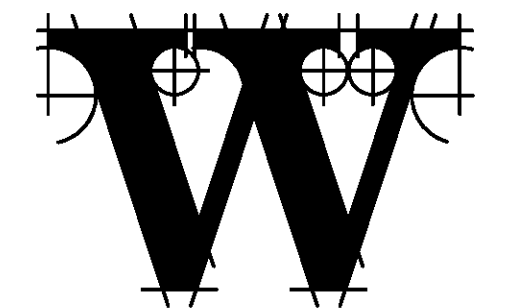
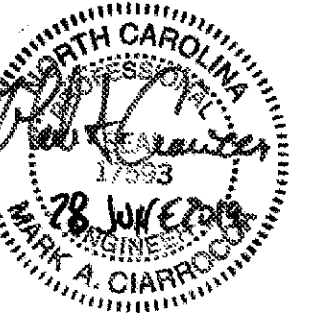


**TERMINAL IMPROVEMENTS CONTRACT 3**

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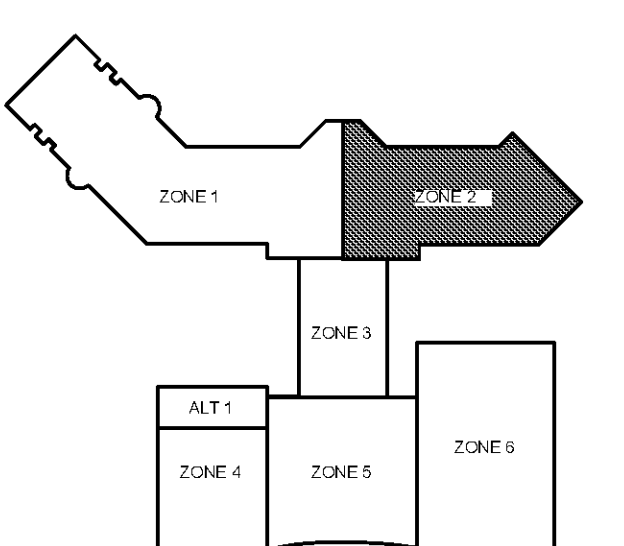
FFPM/ME ENGINEER  
**CHEATHAM & ASSOC.**

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**DK CONSULTANTS**

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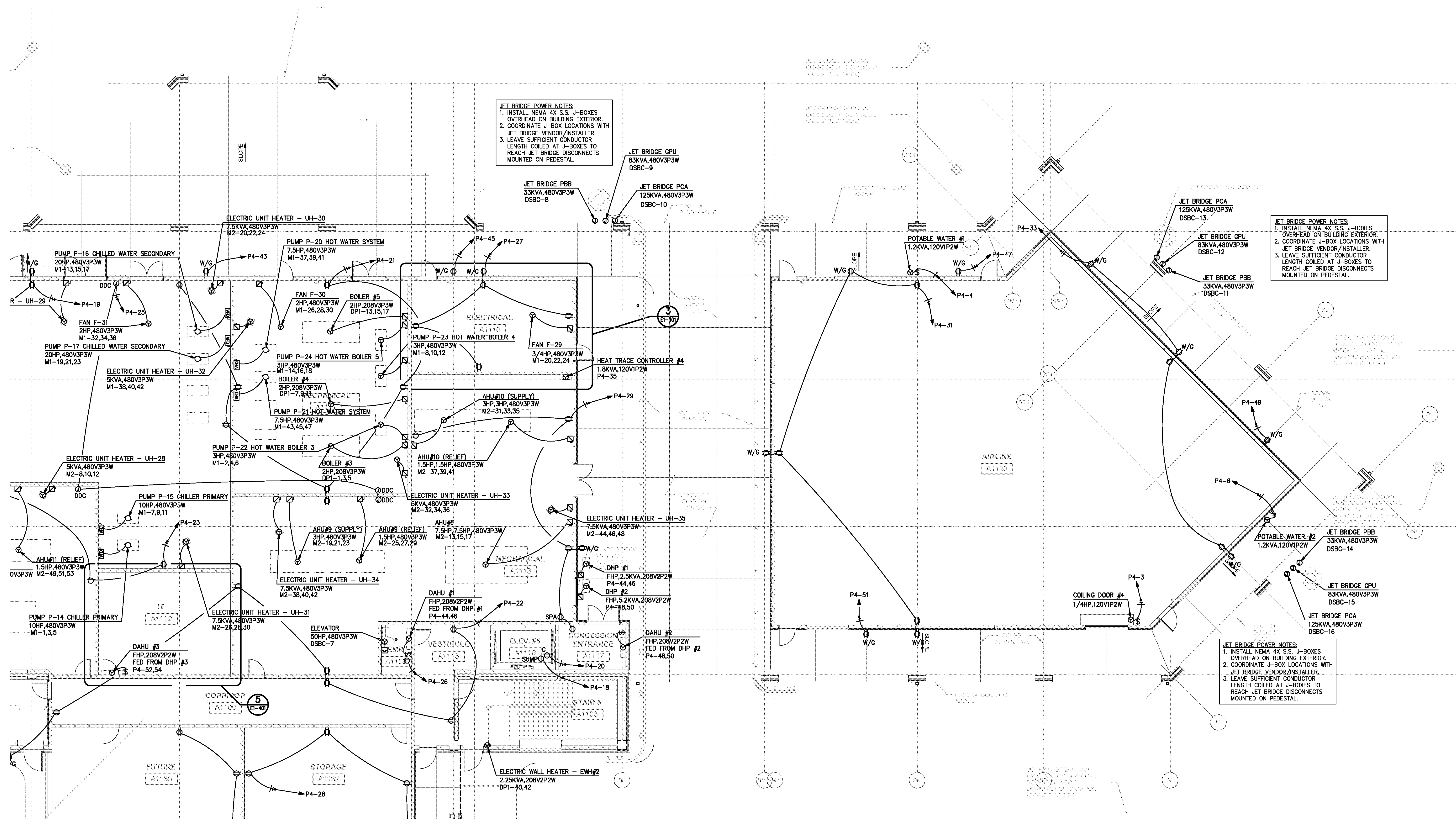
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DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE

**SCHEDULE 1 - ELECTRICAL RAMP LEVEL POWER PLAN ZONE 2**  
 SHEET NUMBER

**E1-112**

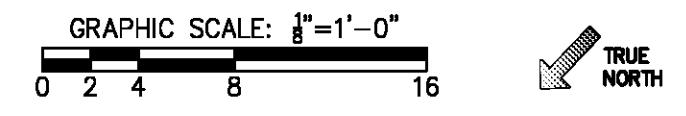


**JET BRIDGE POWER NOTES:**  
 1. INSTALL NEMA 4X S.S. J-BOXES OVERHEAD ON BUILDING EXTERIOR.  
 2. COORDINATE J-BOX LOCATIONS WITH JET BRIDGE VENDOR/INSTALLER.  
 3. LEAVE SUFFICIENT CONDUCTOR LENGTH COILED AT J-BOXES TO REACH JET BRIDGE DISCONNECTS MOUNTED ON PEDESTAL.

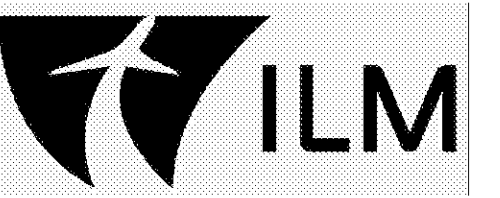
**JET BRIDGE POWER NOTES:**  
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**SCHEDULE 1 - ELECTRICAL RAMP LEVEL - POWER PLAN - ZONE 2**  
 SCALE: 1/8" = 1'-0"



FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
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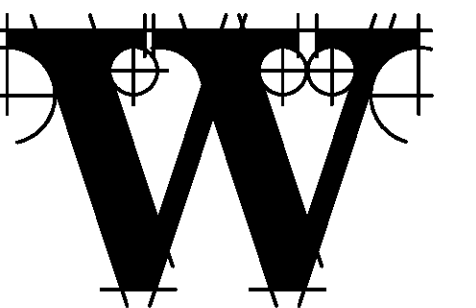
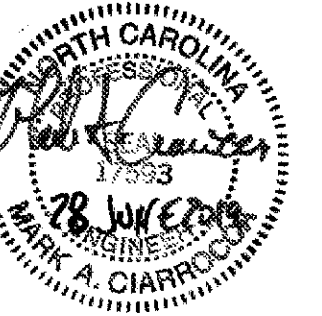


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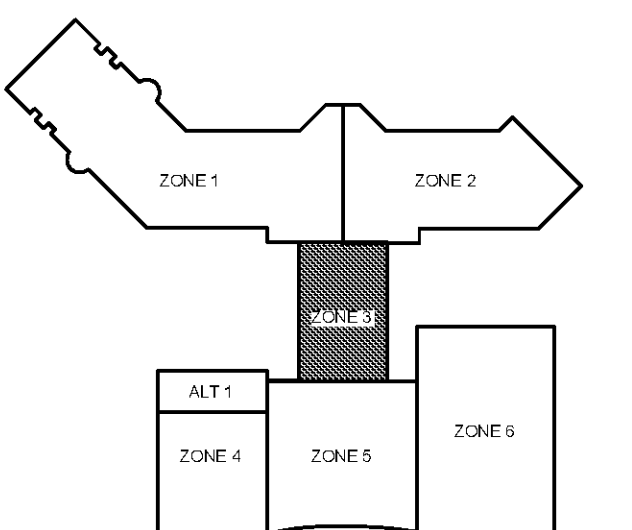
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**CHEATHAM & ASSOC.**

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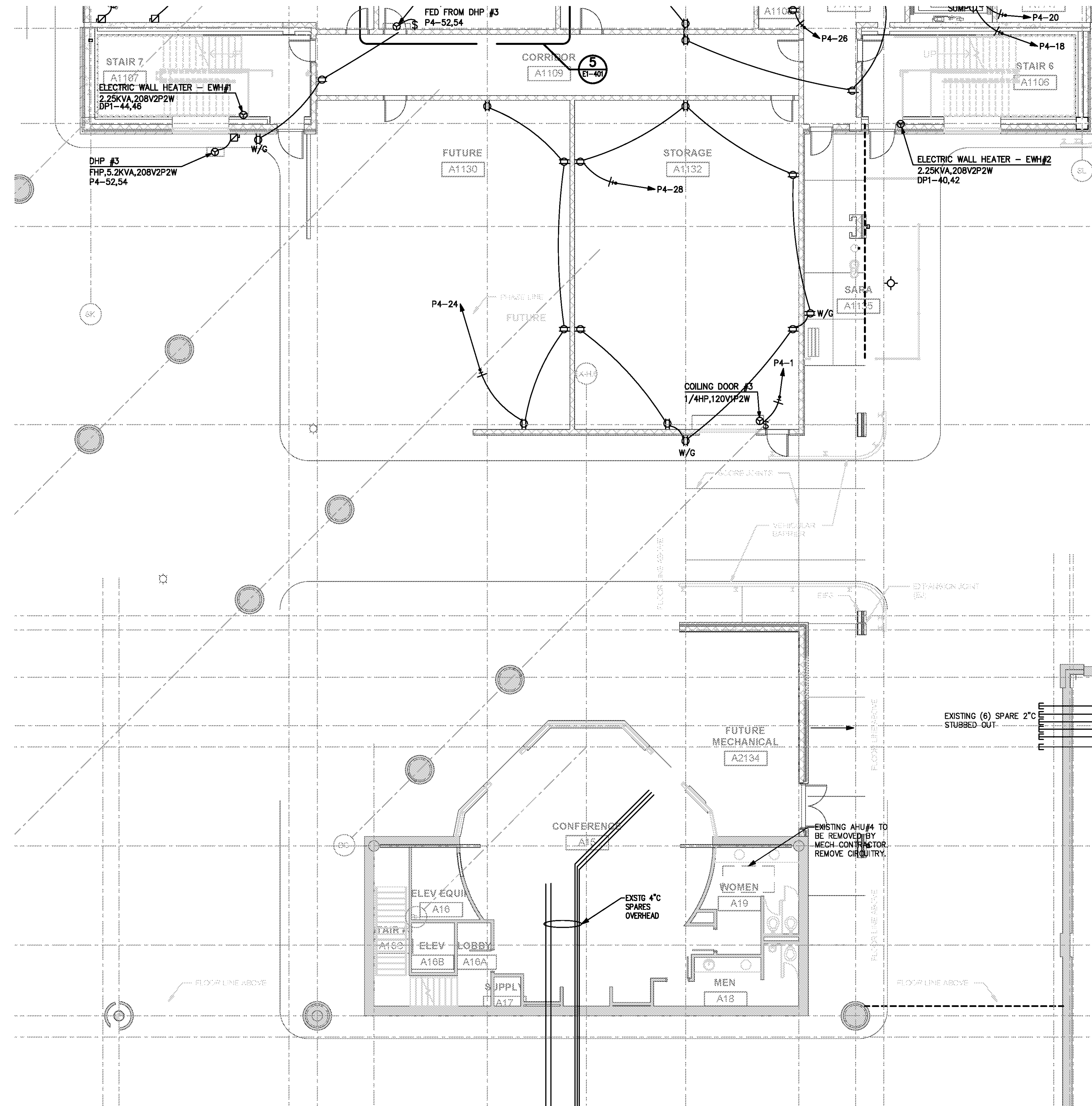


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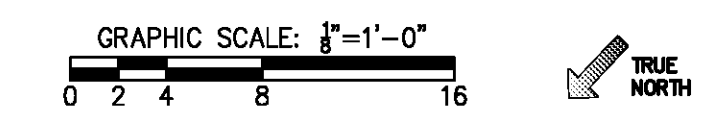
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**SCHEDULE 1 - ELECTRICAL RAMP LEVEL - POWER PLAN - ZONE 3**  
 SCALE: 1/8" = 1'-0"



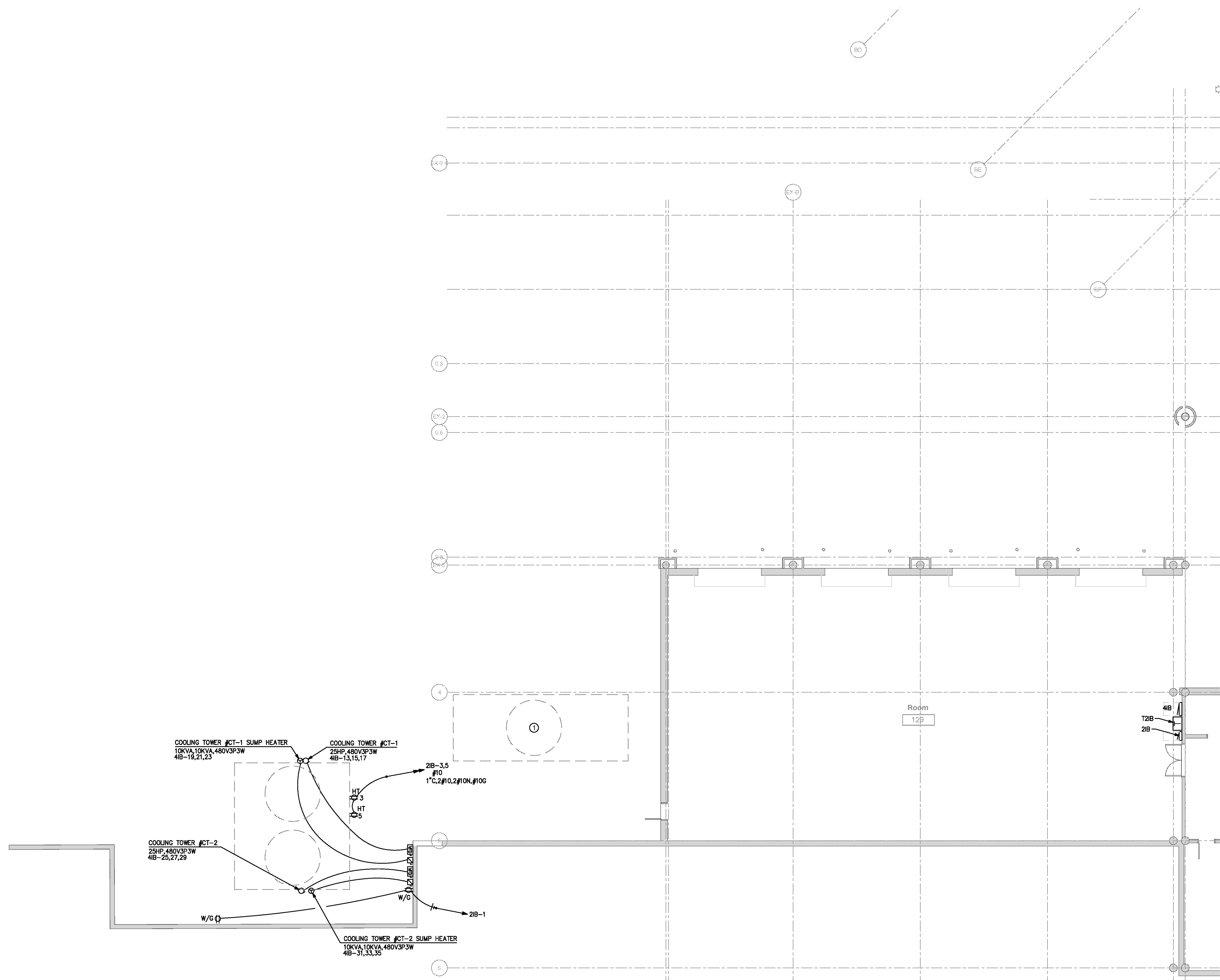
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 PROJECT NUMBER 9202-000  
 SHEET TITLE

**SCHEDULE 1 - ELECTRICAL RAMP LEVEL POWER PLAN ZONE 3**  
 SHEET NUMBER

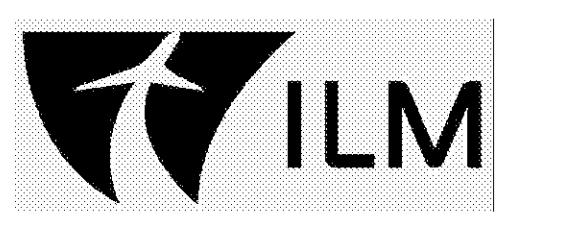
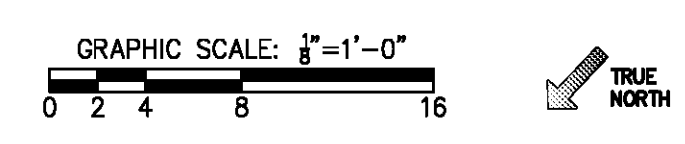
**E1-113**

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
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KEYED NOTES (NEW WORK):  
 ① TRAILER MOUNTED COOLING TOWER (TEMPORARY) TO BE POWERED BY TEMPORARY GENERATOR. CONTRACTOR TO CONFIRM WITH MECHANICAL CONTRACTOR ON SIZING OF GENERATOR & FEEDER FOR COOLING TOWER.

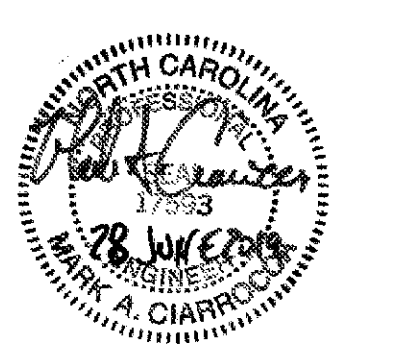


① SCHEDULE 1 - ELECTRICAL RAMP LEVEL - POWER PLAN - ZONE 4  
 SCALE: 1/8" = 1'-0"



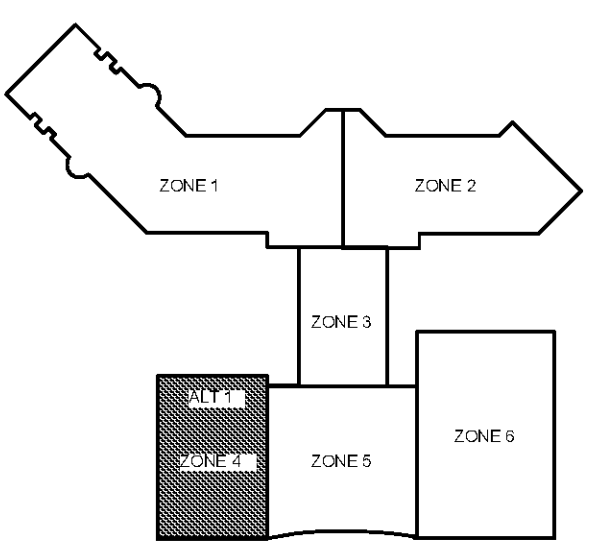
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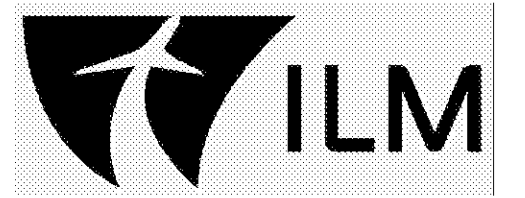
REVISIONS

DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE

**SCHEDULE 1 - ELECTRICAL RAMP LEVEL POWER PLAN ZONE 4**  
 SHEET NUMBER

**E1-114**

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
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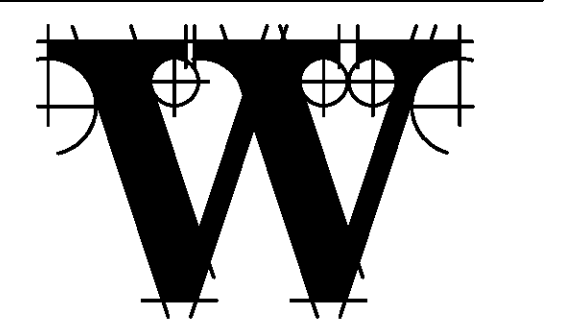


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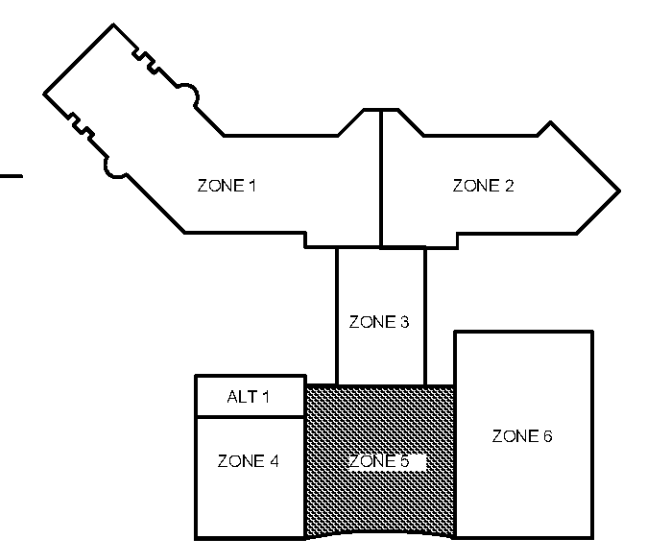
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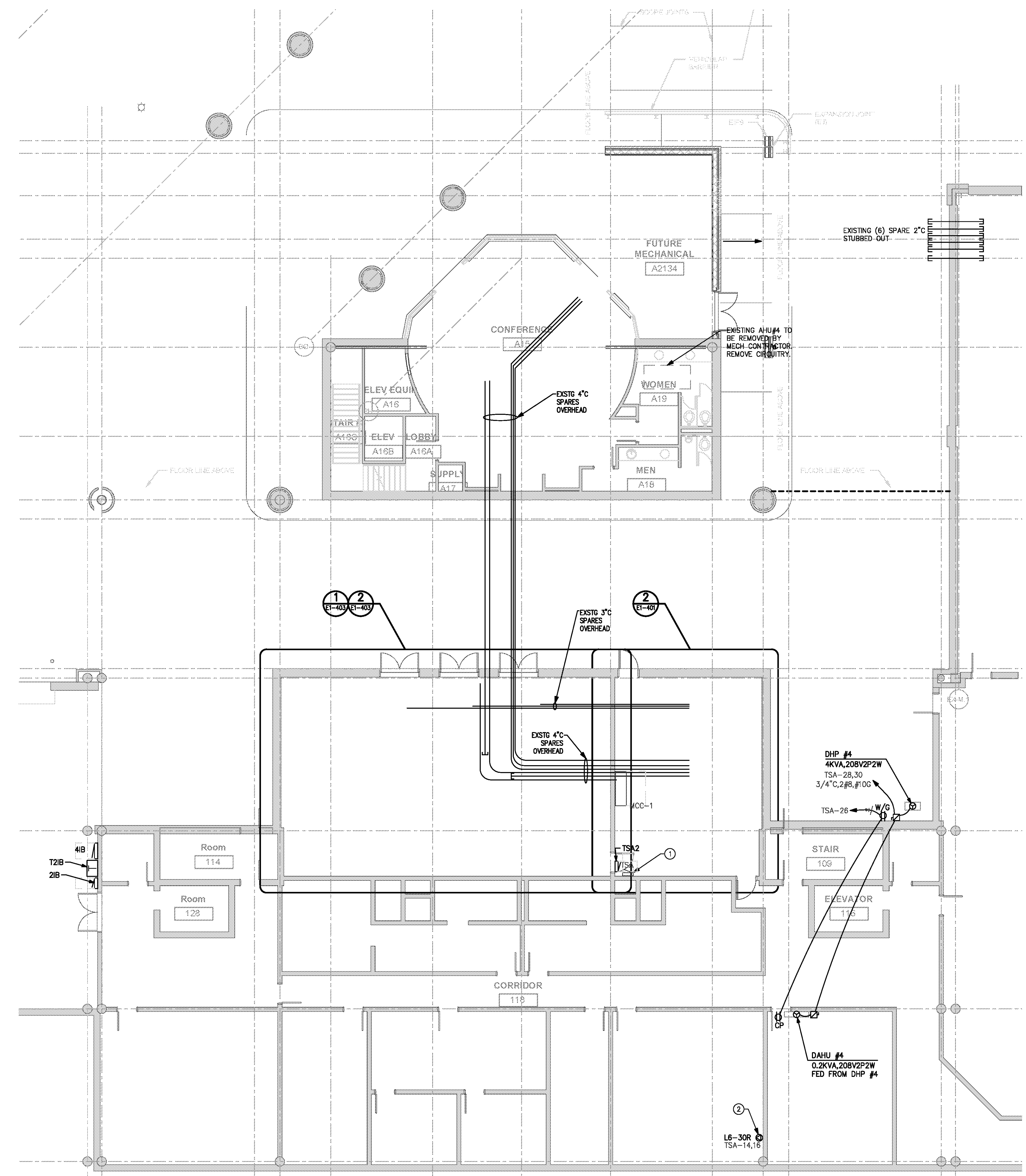
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DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE

**SCHEDULE 1 - ELECTRICAL RAMP LEVEL POWER PLAN ZONE 5**  
 SHEET NUMBER

**E1-115**



- KEYED NOTE.**
- ① EXISTING TSA PANEL IS MANUFACTURED BY SQ-D (NO). PROVIDE (1) 2P/25A & (1) 1P/20A CIRCUIT BREAKER FOR LOAD INDICATED.
  - ② THIS DEVICE HAS EARLY PRIORITY WORK FOR TSA OPERATION.

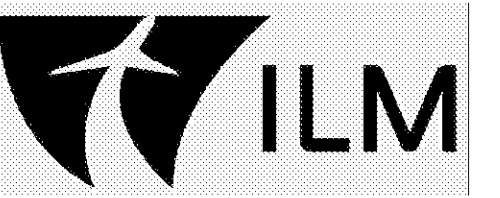
**SCHEDULE 1 - ELECTRICAL RAMP LEVEL - POWER PLAN - ZONE 5**

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

GRAPHIC SCALE: 1"=1'-0"



FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
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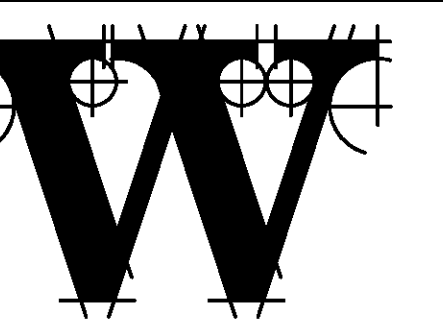


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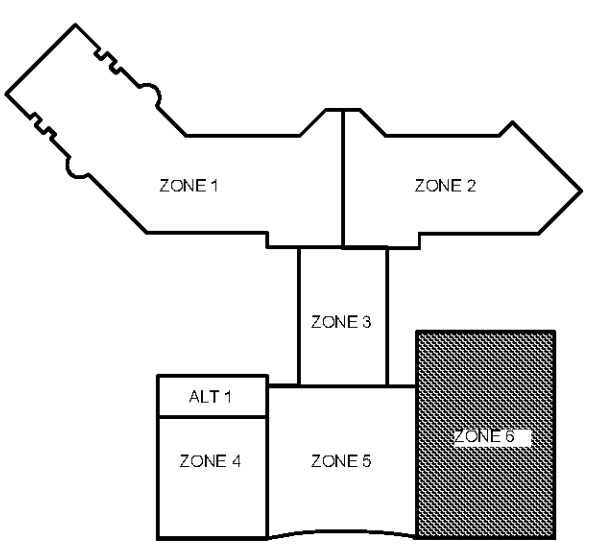
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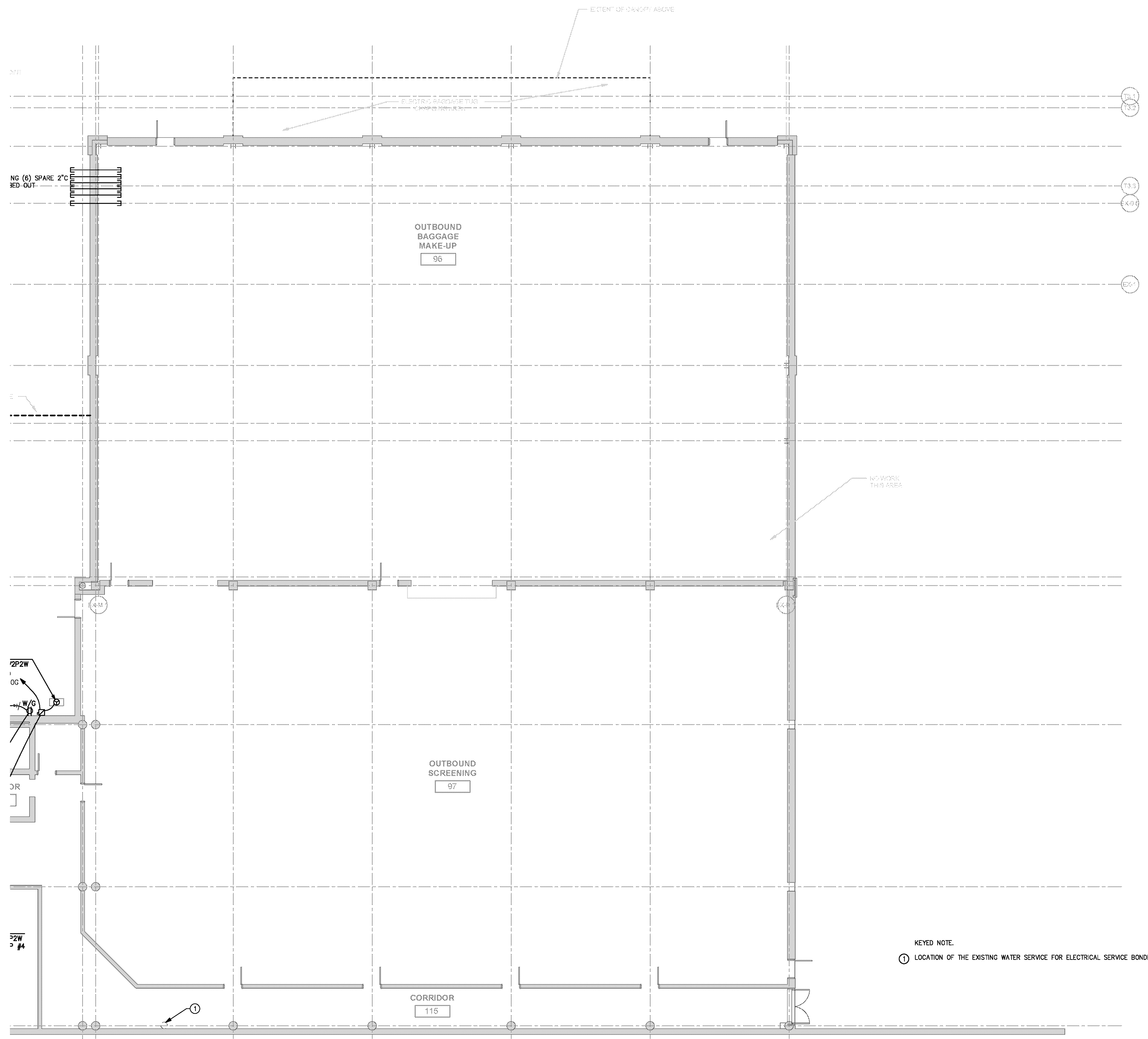


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**REVISIONS**



**SCHEDULE 1 - ELECTRICAL RAMP LEVEL - POWER PLAN - ZONE 6**

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

GRAPHIC SCALE: 1"=1'-0"



DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE

**SCHEDULE 1 - ELECTRICAL RAMP LEVEL POWER PLAN ZONE 6**  
 SHEET NUMBER

**E1-116**

**FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:**

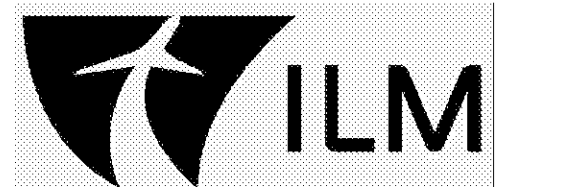
- SEE ARCHITECTURAL PLANS A-01\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.
- SEE BAGGAGE HANDLING SYSTEM PLANS B-\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.
- COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.

**NOTES:**

1. LIGHTING FIXTURE SELECTION AND LAYOUT WERE PERFORMED BY HARTRANFT LIGHTING DESIGN. INCLUSION HERE IS NOT INTENDED TO REPRESENT THAT THE FIXTURE SELECTION AND LAYOUT ARE A WORK PRODUCT OF CHEATHAM & ASSOCIATES, P.A. SEE LUMINAIRE SCHEDULE NOTE 1 FOR WHICH LIGHT FIXTURE TYPES THIS NOTE APPLIES TO.

**KEYED NOTES:**

① PROVIDE #10,#10N,#10G FOR OBSTRUCTION LIGHTS. OBSTRUCTION LIGHTS TO BE CIRCUITED FROM P3-31 AND SWITCHED THROUGH FAA PHOTOCELL. SEE E1-122 FOR LOCATION OF FAA PHOTOCELL.

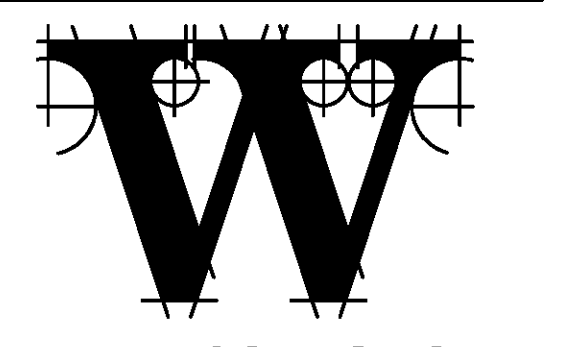


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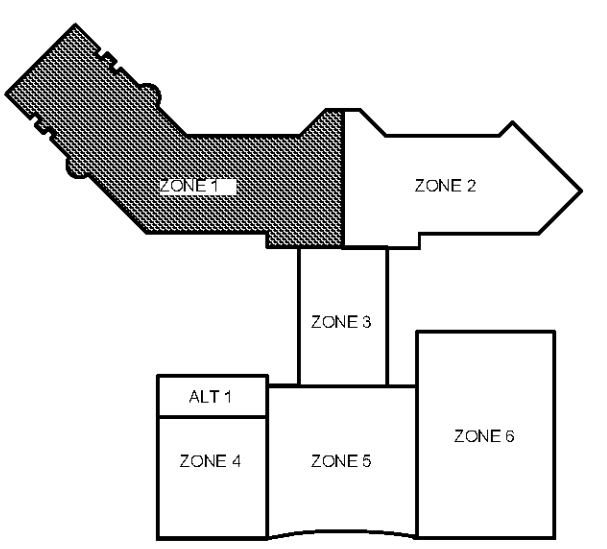
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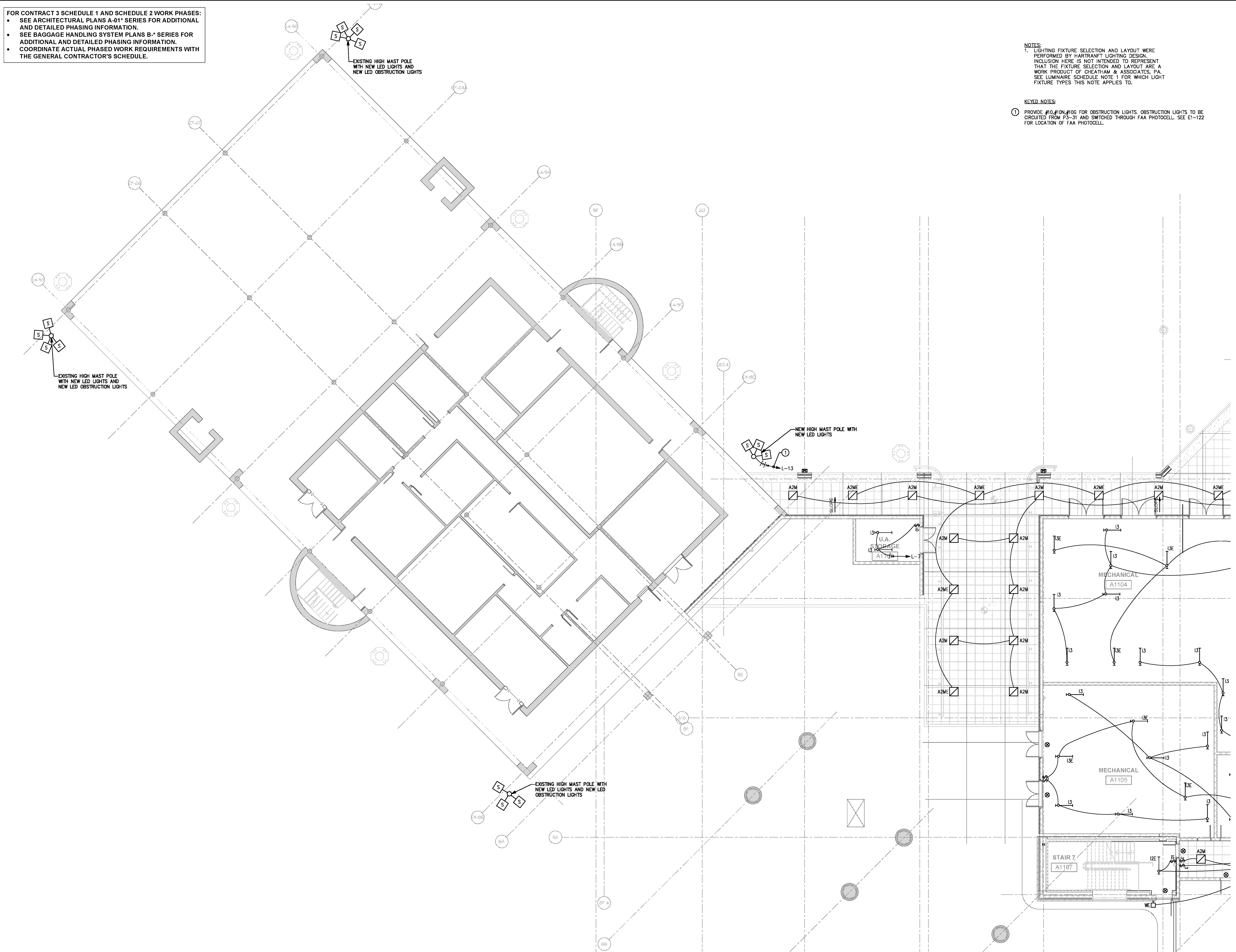
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DATE 06/28/19  
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SHEET TITLE

**SCHEDULE 1 - ELECTRICAL RAMP LEVEL LIGHTING PLAN ZONE 1**  
SHEET NUMBER

**E1-121**



**SCHEDULE 1 - ELECTRICAL RAMP LEVEL - LIGHTING PLAN - ZONE 1**  
SCALE: 1/8" = 1'-0"

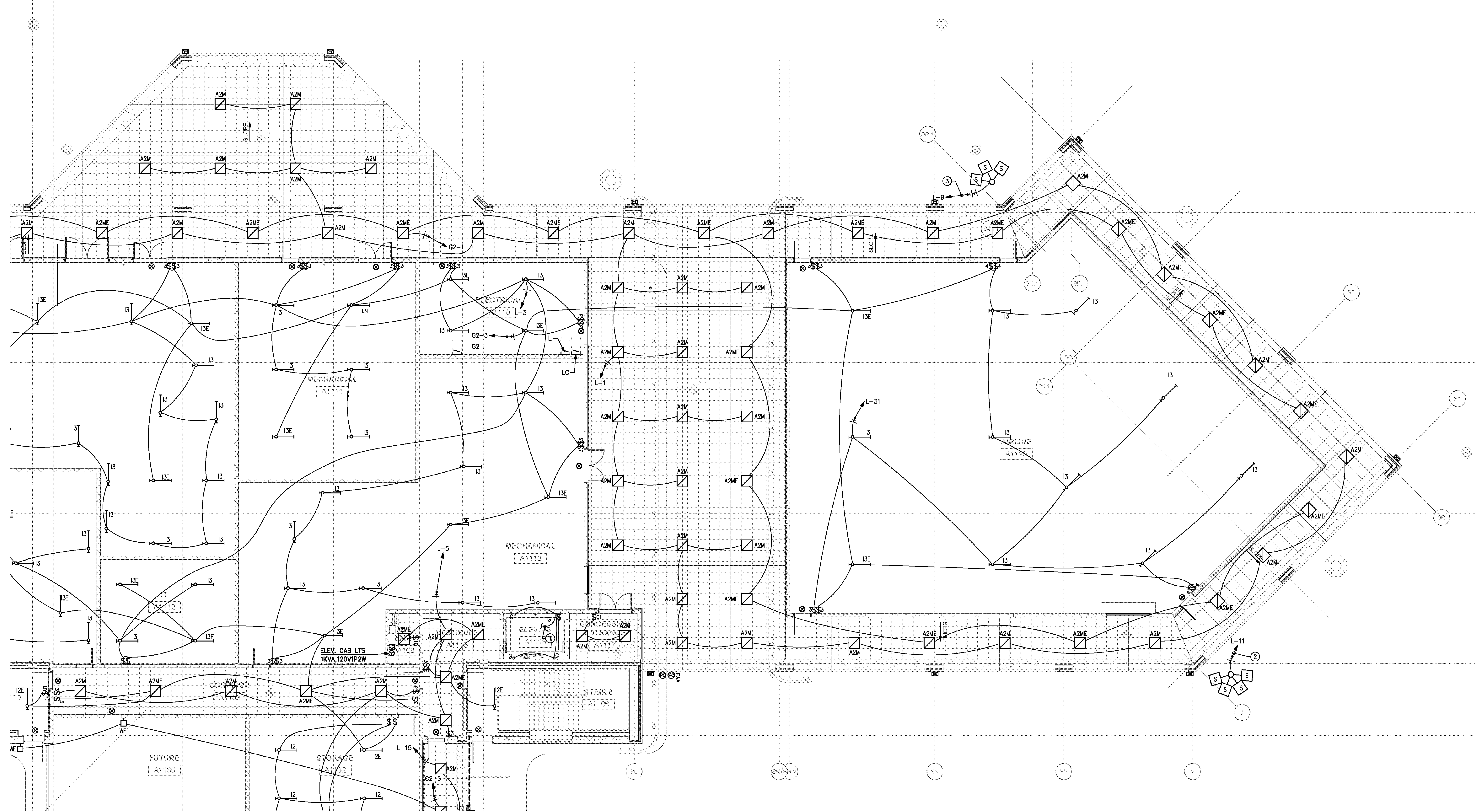
GRAPHIC SCALE: 1"=1'-0"  
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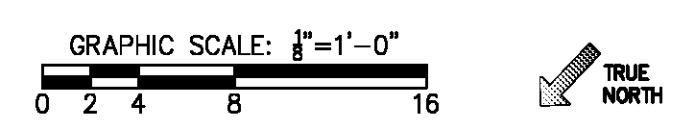
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- KEYED NOTES:
- ① FED FROM RECEPTACLE CIRCUIT IN ELEVATOR PIT.
  - ② PROVIDE #10,#10M,#10C FOR OBSTRUCTION LIGHTS. OBSTRUCTION LIGHTS TO BE CIRCUITED FROM P3-33 AND SWITCHED THROUGH FAA PHOTOCELL.
  - ③ PROVIDE #10,#10M,#10C FOR OBSTRUCTION LIGHTS. OBSTRUCTION LIGHTS TO BE CIRCUITED FROM P3-35 AND SWITCHED THROUGH FAA PHOTOCELL.



1 SCHEDULE 1 - ELECTRICAL RAMP LEVEL - LIGHTING PLAN - ZONE 2  
 SCALE: 1/8" = 1'-0"

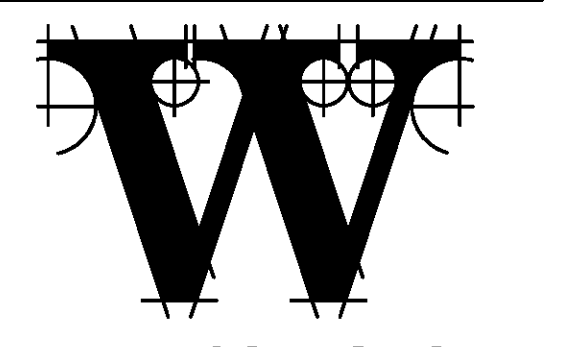


TERMINAL IMPROVEMENTS CONTRACT 3

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 TALBERT & BRIGHT  
 CONSULTING ARCHITECT  
 LS3P

STRUCTURAL ENGINEER  
 STEWART

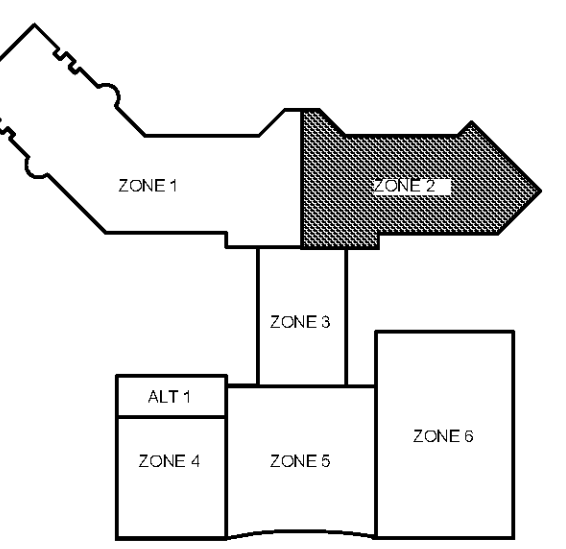
FP/PM/E ENGINEER  
 CHEATHAM & ASSOC.

BAGGAGE HANDLING CONSULTANTS  
 BNP

AIRCRAFT SUPPORT SYSTEMS  
 DK CONSULTANTS

SPECIALTY LIGHTING CONSULTANT  
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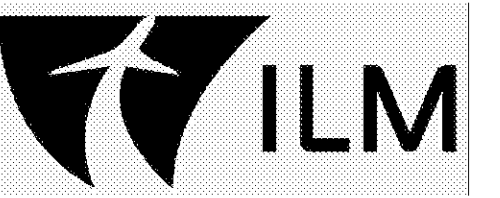
DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE

SCHEDULE 1 - ELECTRICAL RAMP LEVEL LIGHTING PLAN ZONE 2  
 SHEET NUMBER

E1-122

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
 • SEE ARCHITECTURAL PLANS A-01\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.  
 • SEE BAGGAGE HANDLING SYSTEM PLANS B-\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.  
 • COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.

NOTES:  
 1. LIGHTING FIXTURE SELECTION AND LAYOUT WERE PERFORMED BY HARTRANFT LIGHTING DESIGN. INCLUSION HERE IS NOT INTENDED TO REPRESENT THAT THE FIXTURE SELECTION AND LAYOUT ARE A WORK PRODUCT OF CHEATHAM & ASSOCIATES, P.A. SEE LUMINAIRE SCHEDULE NOTE 1 FOR WHICH LIGHT FIXTURE TYPES THIS NOTE APPLIES TO.

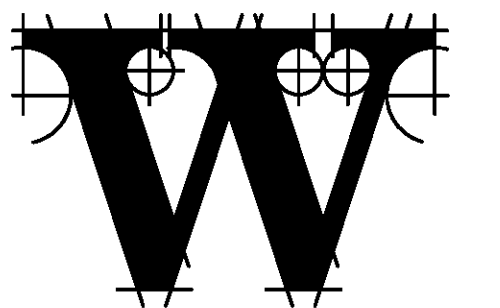


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STRUCTURAL ENGINEER  
**STEWART**

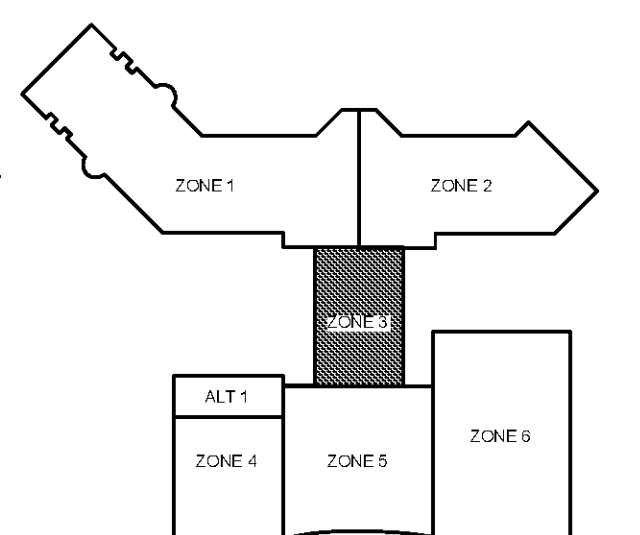
FP/PM/E ENGINEER  
**CHEATHAM & ASSOC.**

BAGGAGE HANDLING CONSULTANTS  
**BNP**

AIRCRAFT SUPPORT SYSTEMS  
**DK CONSULTANTS**

SPECIALTY LIGHTING CONSULTANT  
**HARTRANFT**

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**KEY PLAN**

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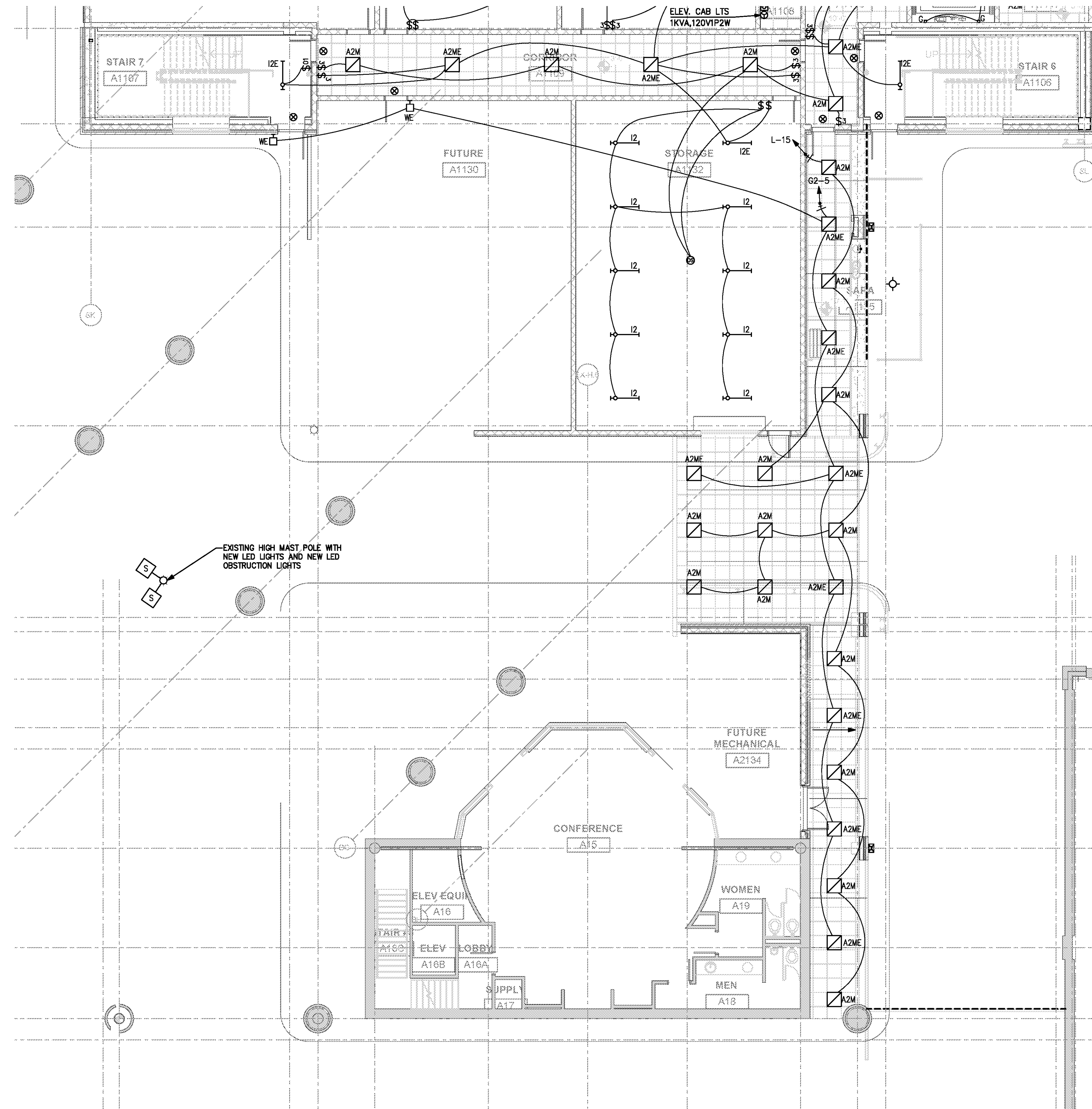
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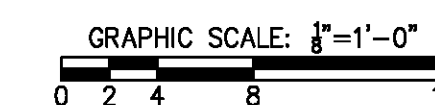
DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE

**SCHEDULE 1 - ELECTRICAL RAMP LEVEL LIGHTING PLAN ZONE 3**  
 SHEET NUMBER

**E1-123**



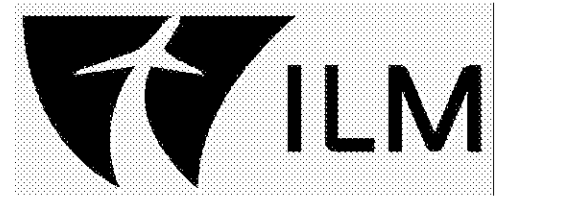
**SCHEDULE 1 - ELECTRICAL RAMP LEVEL - LIGHTING PLAN - ZONE 3**  
 SCALE: 1/8" = 1'-0"



FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
 • SEE ARCHITECTURAL PLANS A-01\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.  
 • SEE BAGGAGE HANDLING SYSTEM PLANS B-\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.  
 • COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.

NOTES:  
 1. LIGHTING FIXTURE SELECTION AND LAYOUT WERE PERFORMED BY HARTRANFT LIGHTING DESIGN. INCLUSION HERE IS NOT INTENDED TO REPRESENT THAT THE FIXTURE SELECTION AND LAYOUT ARE A WORK PRODUCT OF CHEATHAM & ASSOCIATES, P.A. SEE LUMINAIRE SCHEDULE NOTE 1 FOR WHICH LIGHT FIXTURE TYPES THIS NOTE APPLIES TO.

KEYED NOTES:  
 ① NEW LIGHT FIXTURE MOUNTED IN SAME LOCATION AS DEMOLISHED FIXTURE FROM DEMOLITION PHASE.  
 ② NEW 3/4"Ø FROM FIRST EXISTING LIGHT BACK TO ROOM 129. CONNECT EXISTING HOME RUN BACK TO LIGHTS THROUGH NEW CONDUIT.

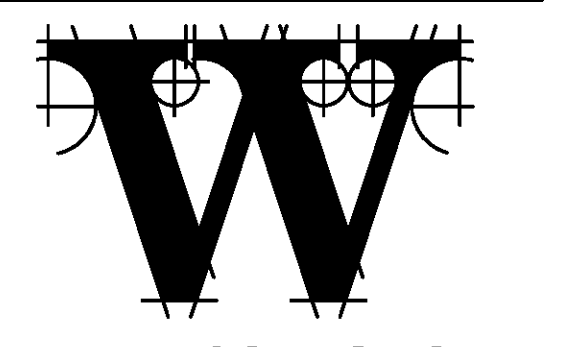


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**STEWART**

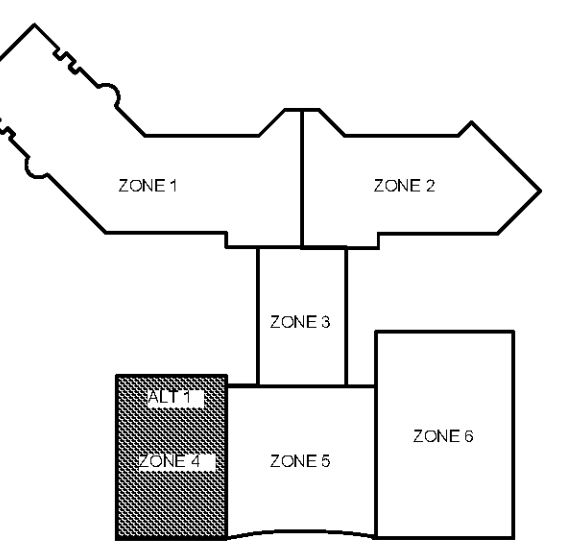
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**CHEATHAM & ASSOC.**

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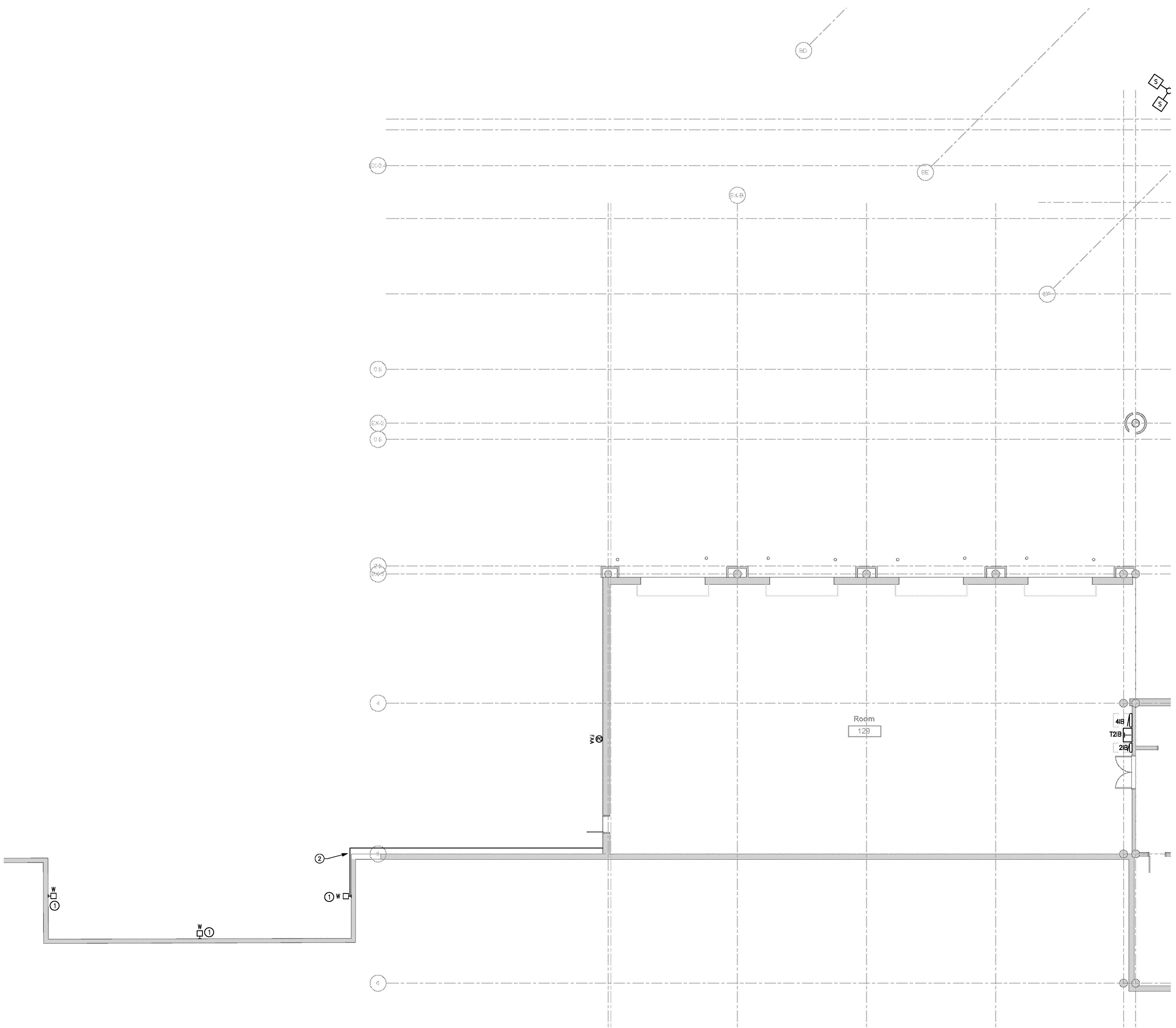
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DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE

**SCHEDULE 1 - ELECTRICAL RAMP LEVEL LIGHTING PLAN ZONE 4**  
 SHEET NUMBER

**E1-124**



**SCHEDULE 1 - ELECTRICAL RAMP LEVEL - LIGHTING PLAN - ZONE 4**

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

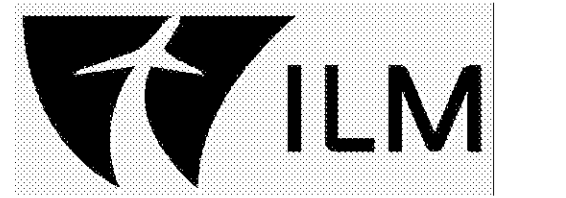
GRAPHIC SCALE: 1"=1'-0"



**FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:**

- SEE ARCHITECTURAL PLANS A-01\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.
- SEE BAGGAGE HANDLING SYSTEM PLANS B-\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.
- COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.

- KEYED NOTES:**
- 1 AMERICAN AIRLINES FIBER OPTIC CABLE AND CONDUIT FROM NEW DATA ROOM LOCATED ON E1-132 TO EXISTING IT RACK.
  - 2 DELTA AIRLINES FIBER OPTIC CABLE AND CONDUIT FROM NEW DATA ROOM LOCATED ON E1-132 TO EXISTING IT RACK.
  - 3 UNITED AIRLINES FIBER OPTIC CABLE AND CONDUIT FROM NEW DATA ROOM LOCATED ON E1-132 TO EXISTING IT RACK.
  - 4 AIRPORT CAMERA FIBER OPTIC CABLE AND CONDUIT AND (2) 100-PAIR COPPER FROM NEW DATA ROOM LOCATED ON E1-132 TO EXISTING IT RACK.

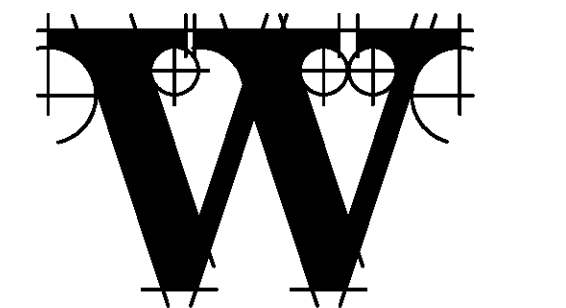
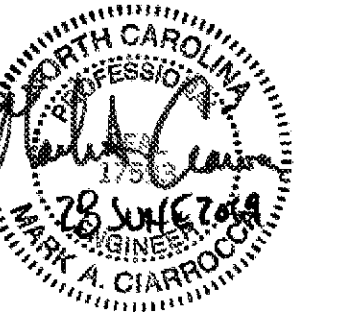


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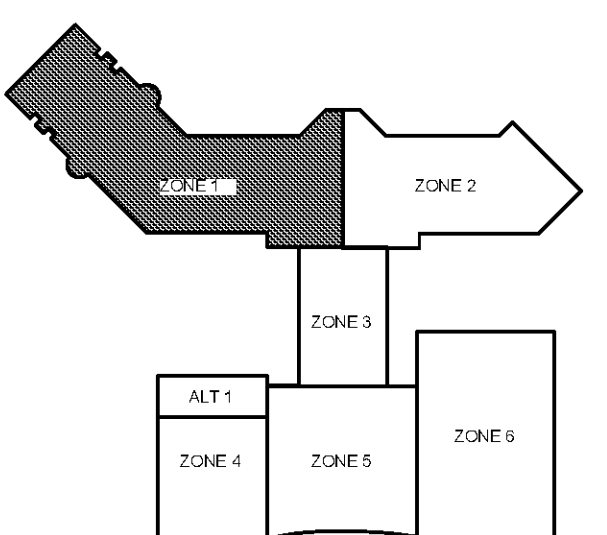
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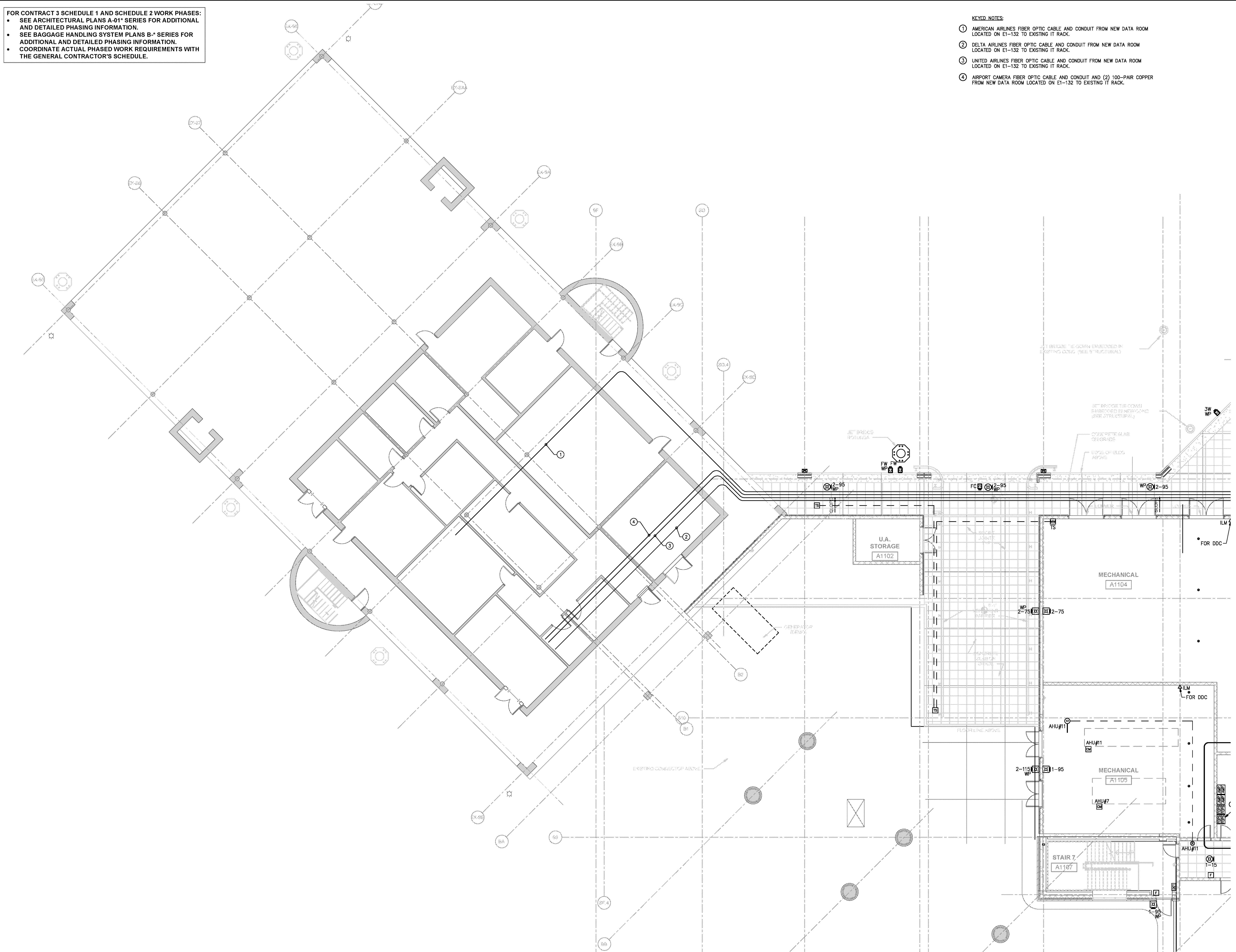
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DATE 06/28/19  
PROJECT NUMBER 9202-000  
SHEET TITLE

**SCHEDULE 1 - ELECTRICAL RAMP LEVEL AUXILIARY SYSTEMS PLAN ZONE 1**  
SHEET NUMBER

**E1-131**

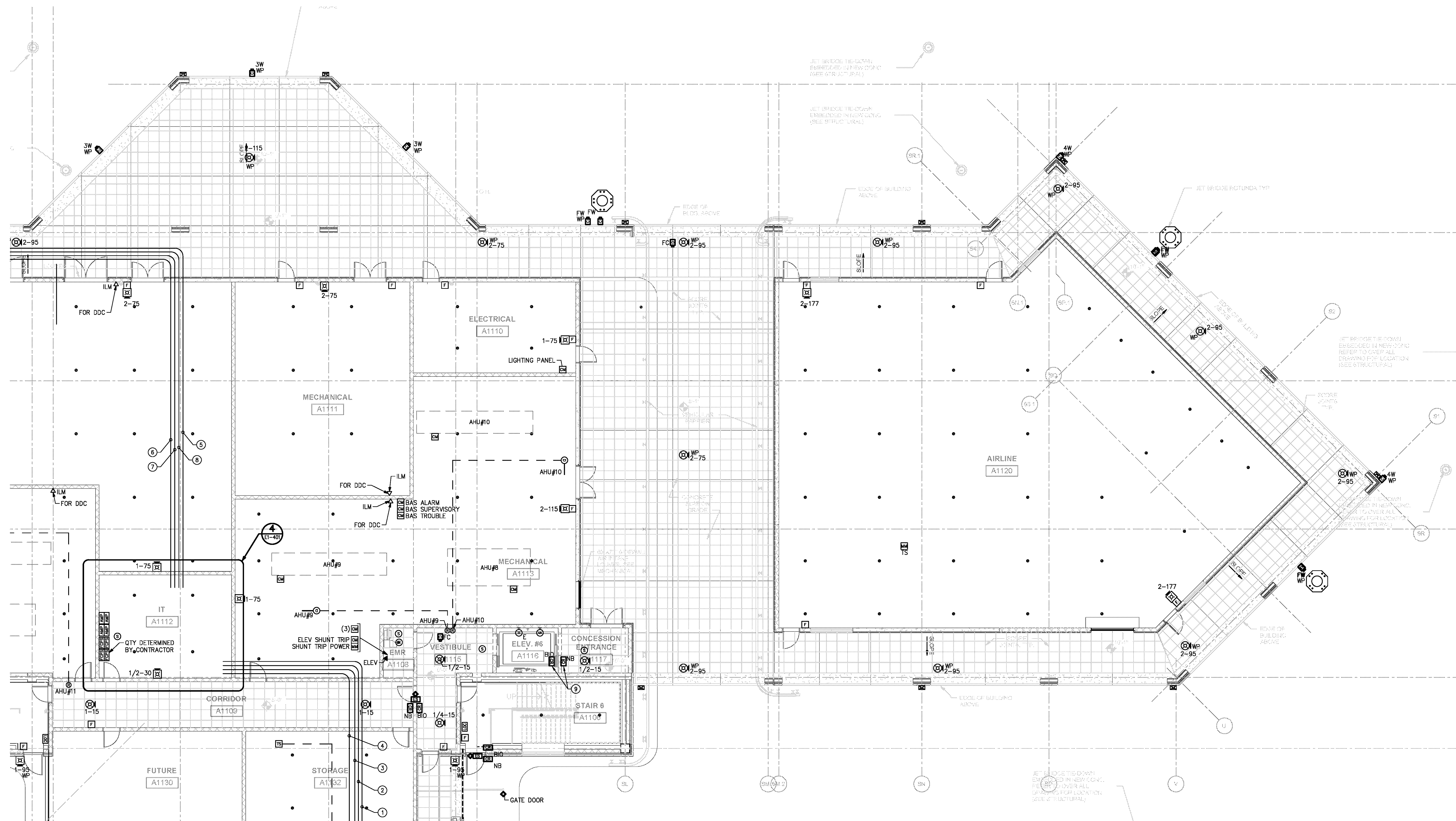


**SCHEDULE 1 - ELECTRICAL RAMP LEVEL - AUXILIARY SYSTEMS PLAN - ZONE 1**  
SCALE: 1/8" = 1'-0"  
GRAPHIC SCALE: 1" = 1'-0"  
TRUE NORTH

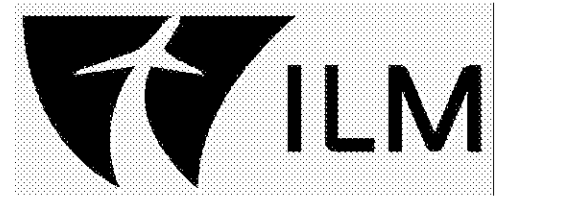
FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:

- SEE ARCHITECTURAL PLANS A-01\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.
- SEE BAGGAGE HANDLING SYSTEM PLANS B-\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.
- COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.

- KEYED NOTES:**
- 1 AMERICAN AIRLINES FIBER OPTIC CABLE IN CONDUIT FROM COMM. 180 LOCATED ON TICKET LEVEL TO NEW DATA ROOM LOCATED ON RAMP LEVEL E1-132.
  - 2 DELTA AIRLINES FIBER OPTIC CABLE IN CONDUIT FROM TEL/COMM. 188 LOCATED ON TICKET LEVEL TO NEW DATA ROOM LOCATED ON RAMP LEVEL E1-132.
  - 3 UNITED AIRLINES FIBER OPTIC CABLE IN CONDUIT FROM STORAGE/IT 196 LOCATED ON TICKET LEVEL TO NEW DATA ROOM LOCATED ON RAMP LEVEL E1-132.
  - 4 ILM FIBER OPTIC CABLE IN CONDUIT FROM EXISTING IT EQUIPMENT IN RAMP LEVEL BUILDING MANAGEMENT ROOM TO NEW DATA ROOM LOCATED ON RAMP LEVEL E1-132.
  - 5 AMERICAN AIRLINES FIBER OPTIC CABLE IN CONDUIT FROM NEW DATA ROOM LOCATED TO EXISTING IT RACK LOCATED ON E1-131.
  - 6 DELTA AIRLINES FIBER OPTIC CABLE IN CONDUIT FROM NEW DATA ROOM TO EXISTING IT RACK LOCATED ON E1-131.
  - 7 UNITED AIRLINES FIBER OPTIC CABLE IN CONDUIT FROM NEW DATA ROOM TO EXISTING IT RACK LOCATED ON E1-131.
  - 8 ILM CAMERA FIBER OPTIC CABLE IN CONDUIT AND (2) 100-PAIR COPPER FROM NEW DATA ROOM TO EXISTING IT RACK LOCATED ON E1-131.
  - 9 INTERFACE ACCESS CONTROL SYSTEM WITH ELEVATOR DOOR CONTROL.



**SCHEDULE 1 - ELECTRICAL RAMP LEVEL - AUXILIARY SYSTEMS PLAN - ZONE 2**  
 SCALE: 1/8" = 1'-0" GRAPHIC SCALE: 1" = 1'-0" TRUE NORTH

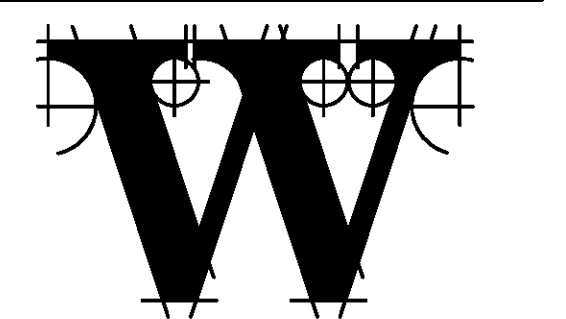
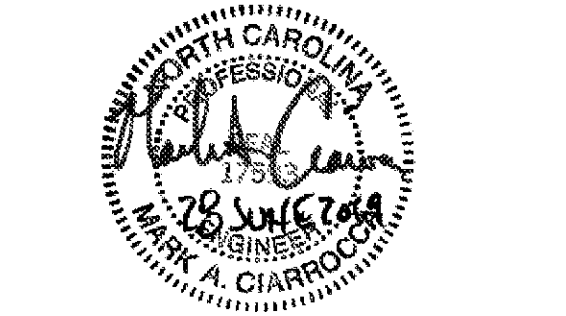


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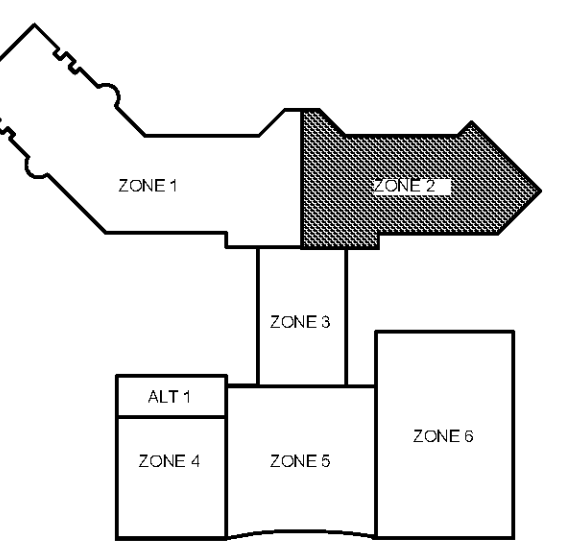
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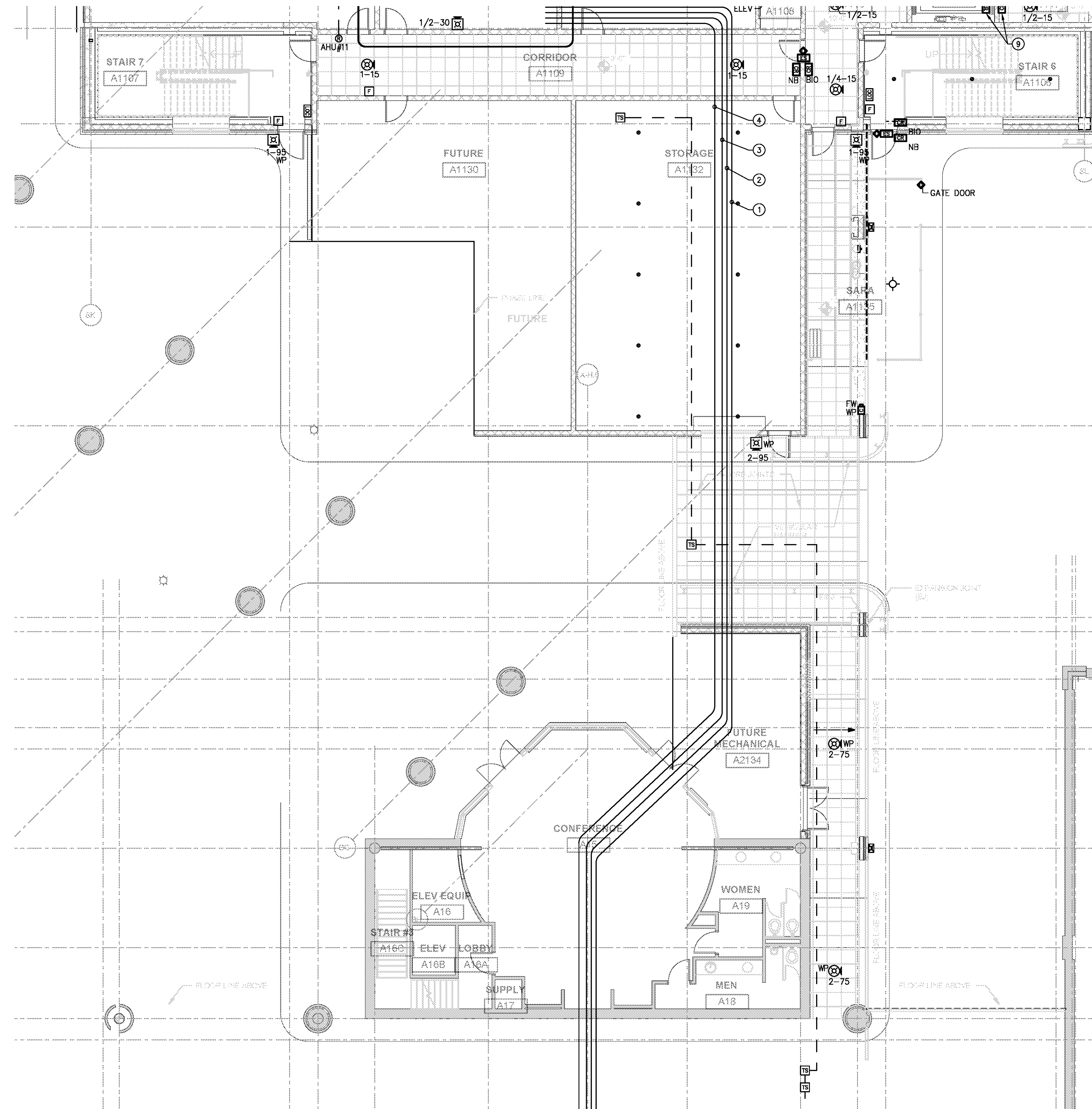
DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE

**SCHEDULE 1 - ELECTRICAL RAMP LEVEL AUXILIARY SYSTEMS PLAN ZONE 2**  
 SHEET NUMBER

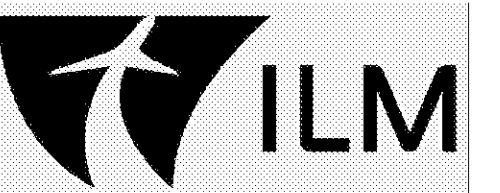
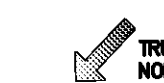
**E1-132**

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
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- KEYED NOTES:
- 1 AMERICAN AIRLINES FIBER OPTIC CABLE AND CONDUIT FROM COMM. 180 LOCATED ON TICKET LEVEL TO NEW DATA ROOM LOCATED ON RAMP LEVEL E1-132.
  - 2 DELTA AIRLINES FIBER OPTIC CABLE AND CONDUIT FROM TEL/COMM. 188 LOCATED ON TICKET LEVEL TO NEW DATA ROOM LOCATED ON RAMP LEVEL E1-132.
  - 3 UNITED AIRLINES FIBER OPTIC CABLE AND CONDUIT FROM STORAGE/IT 196 LOCATED ON TICKET LEVEL TO NEW DATA ROOM LOCATED ON RAMP LEVEL E1-132.



1 SCHEDULE 1 - ELECTRICAL RAMP LEVEL - AUXILIARY SYSTEMS PLAN - ZONE 3  
 SCALE: 1/8" = 1'-0" GRAPHIC SCALE: 1" = 1'-0"

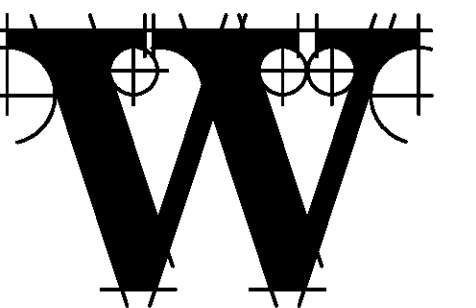


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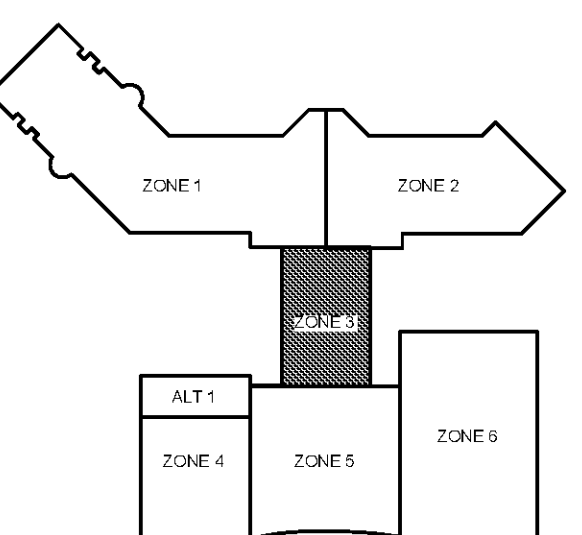
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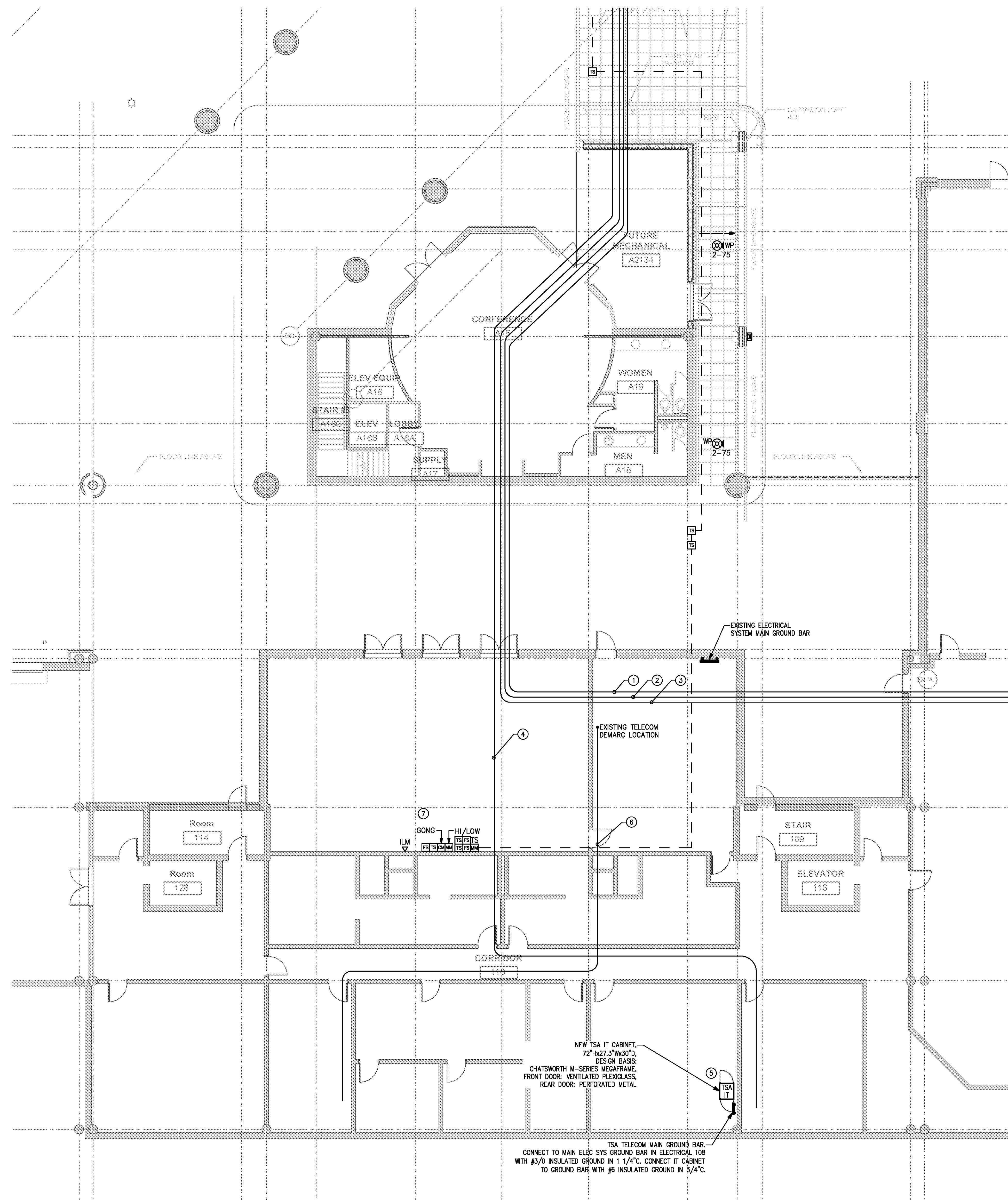
**SCHEDULE 1 - ELECTRICAL RAMP LEVEL AUXILIARY SYSTEMS PLAN ZONE 3**  
 SHEET NUMBER

**E1-133**

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
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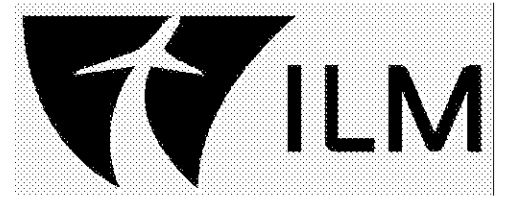
KEYED NOTES

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- ② DELTA AIRLINES FIBER OPTIC CABLE IN CONDUIT FROM TEL/COMM. 188 LOCATED ON TICKET LEVEL TO NEW DATA ROOM LOCATED ON RAMP LEVEL E1-132.
- ③ UNITED AIRLINES FIBER OPTIC CABLE IN CONDUIT FROM STORAGE/IT 196 LOCATED ON TICKET LEVEL TO NEW DATA ROOM LOCATED ON RAMP LEVEL E1-132.
- ④ ILM FIBER OPTIC CABLE IN CONDUIT FROM EXISTING IT EQUIPMENT IN RAMP LEVEL BUILDING MANAGEMENT ROOM TO NEW DATA ROOM LOCATED ON RAMP LEVEL E1-132.
- ⑤ FIELD REVIEW EXISTING TSA IT EQUIPMENT IN TICKET LEVEL TSA IT ROOM. PROVIDE RACK ACCESSORIES TO ACCOMMODATE RELOCATION OF EXISTING TSA IT EQUIPMENT.
- ⑥ TSA FIBER OPTIC CABLE IN CONDUIT FROM EXISTING TELECOM DEMARC IN RAMP LEVEL MAIN ELECTRICAL ROOM TO NEW CABINET IN TSA ROOM.
- ⑦ CONTROL MODULE FOR SPRINKLER GONG.  
 GONG PROVIDED BY AND INSTALLED BY DIVISION 21. CIRCUITRY BY DIVISION 28.



① SCHEDULE 1 - ELECTRICAL RAMP LEVEL - AUXILIARY SYSTEMS PLAN - ZONE 5  
 SCALE: 1/8" = 1'-0"

GRAPHIC SCALE: 1/8" = 1'-0"  
 0 2 4 8 16  
 TRUE NORTH

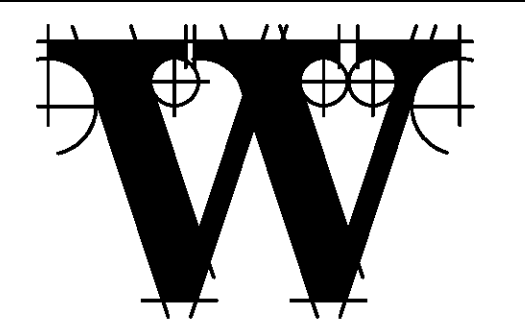
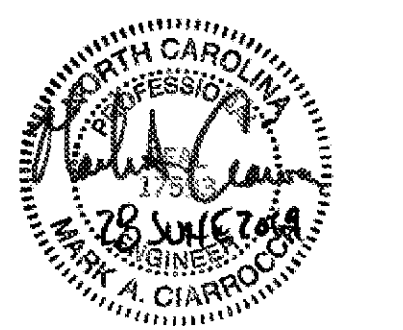


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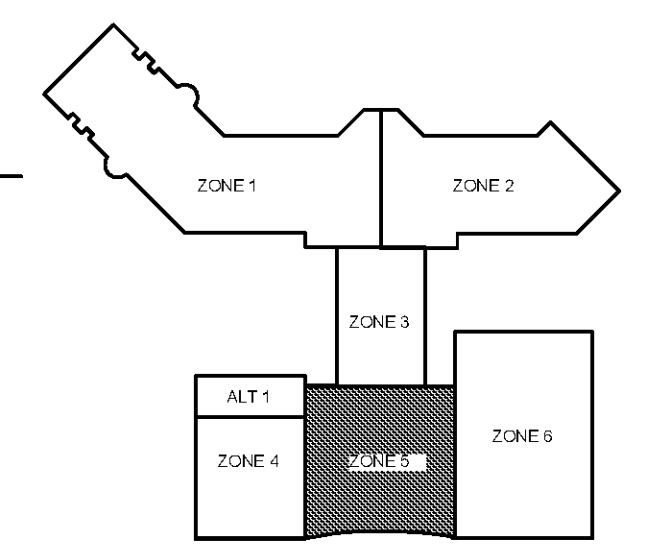
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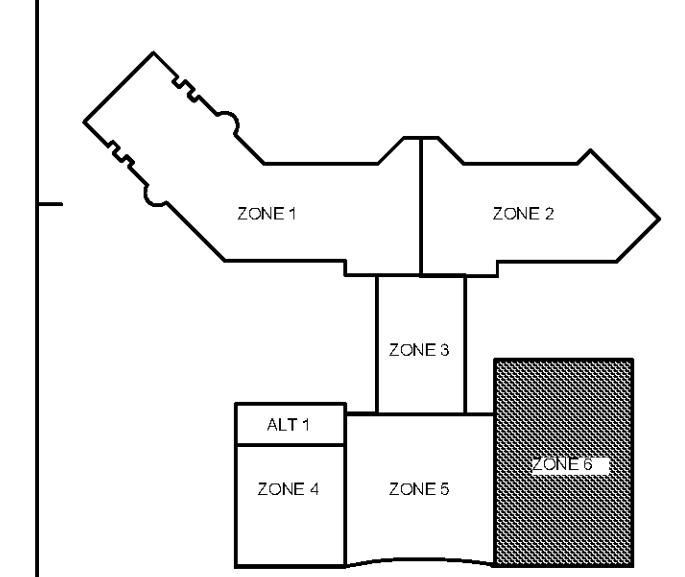
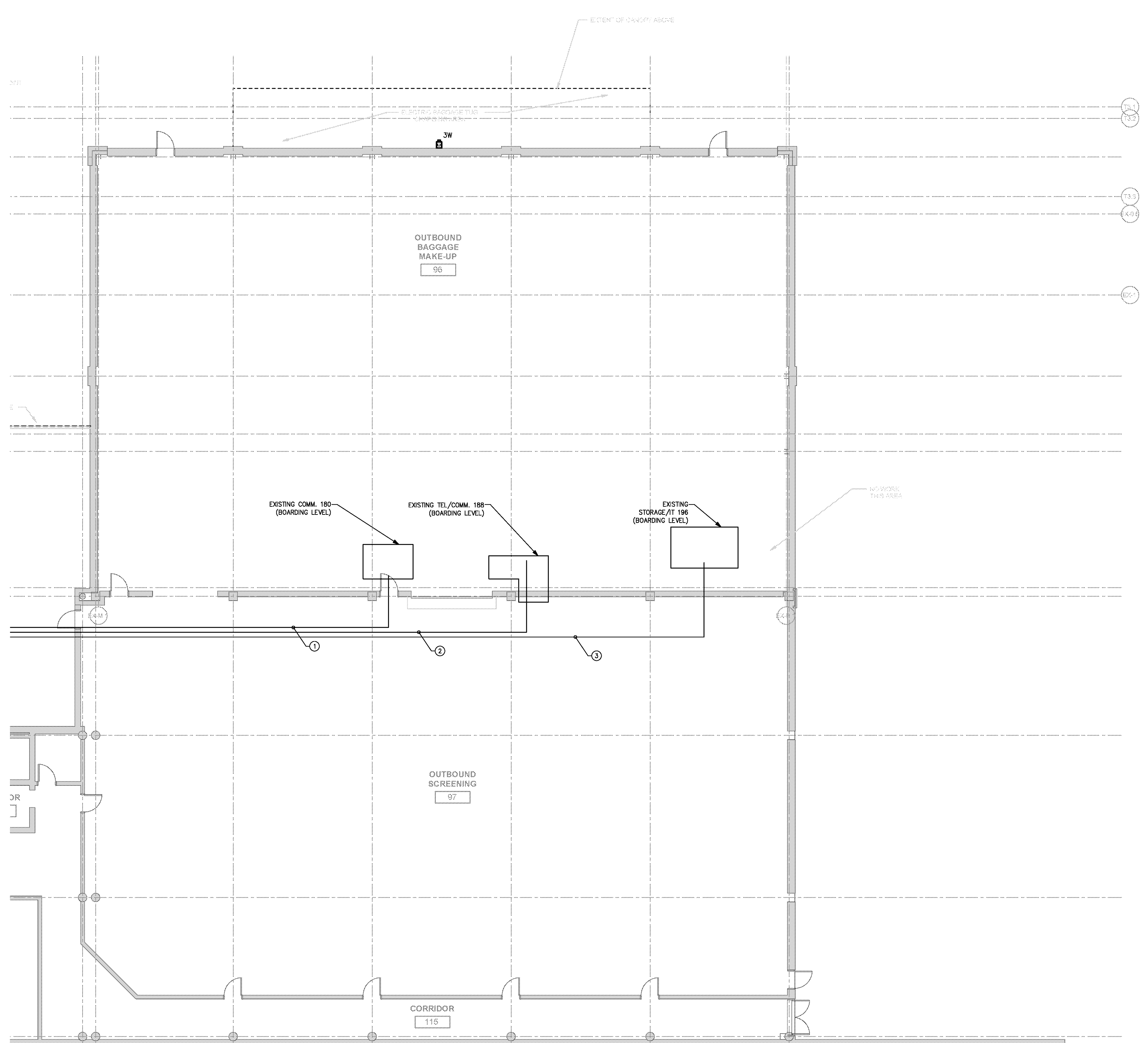
DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE

SCHEDULE 1 - ELECTRICAL RAMP LEVEL AUXILIARY SYSTEMS PLAN ZONE 5  
 SHEET NUMBER

E1-135

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
 • SEE ARCHITECTURAL PLANS A-01\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.  
 • SEE BAGGAGE HANDLING SYSTEM PLANS B-\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.  
 • COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.

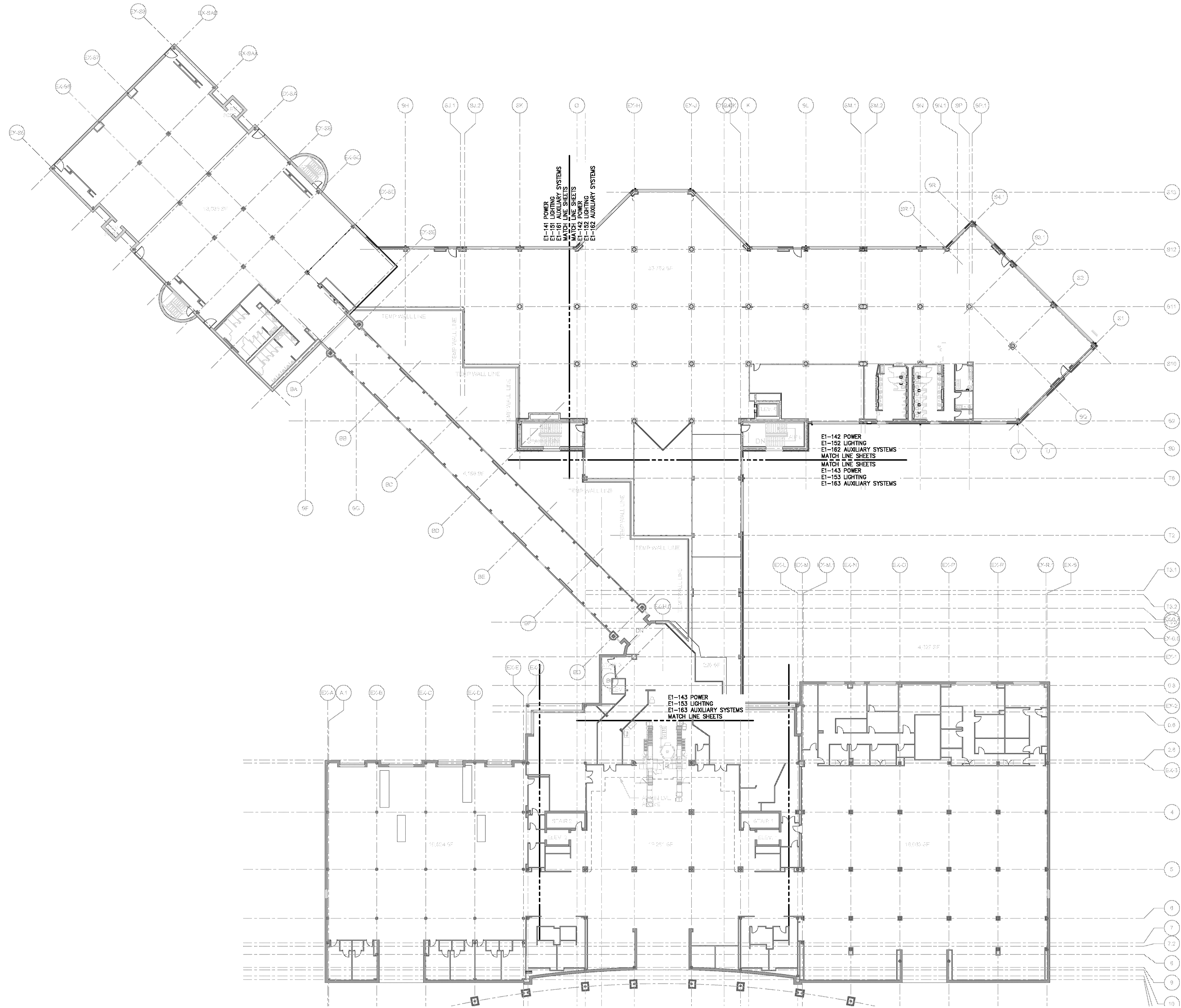
- KEYED NOTES:**
- ① AMERICAN AIRLINES FIBER OPTIC CABLE AND CONDUIT FROM COMM. 180 LOCATED ON TICKET LEVEL TO NEW DATA ROOM LOCATED ON RAMP LEVEL E1-132.
  - ② DELTA AIRLINES FIBER OPTIC CABLE AND CONDUIT FROM TEL/COMM. 188 LOCATED ON TICKET LEVEL TO NEW DATA ROOM LOCATED ON RAMP LEVEL E1-132.
  - ③ UNITED AIRLINES FIBER OPTIC CABLE AND CONDUIT FROM STORAGE/IT 196 LOCATED ON TICKET LEVEL TO NEW DATA ROOM LOCATED ON RAMP LEVEL E1-132.



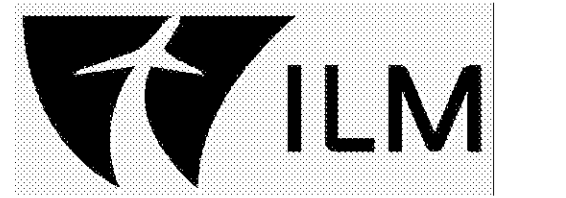
REVISIONS

NO.	DESCRIPTION

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
 • SEE ARCHITECTURAL PLANS A-01\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.  
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**1** SCHEDULE 1 - ELECTRICAL BOARDING/TICKET LEVEL - OVERALL PLAN  
 SCALE: 1" = 20' GRAPHIC SCALE: 1"=20'  
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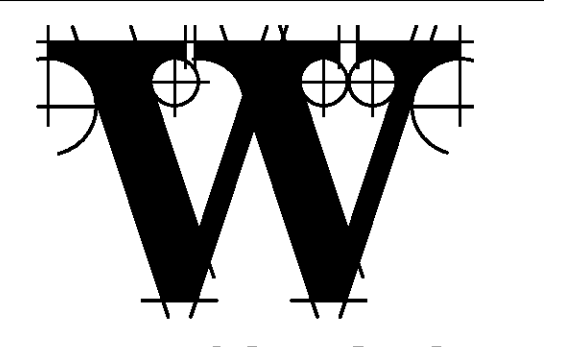
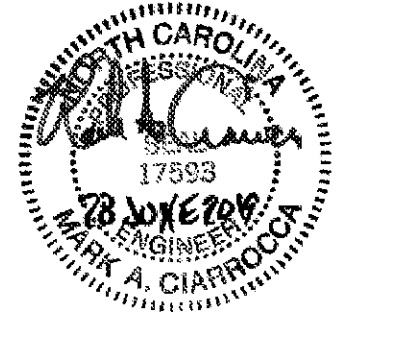


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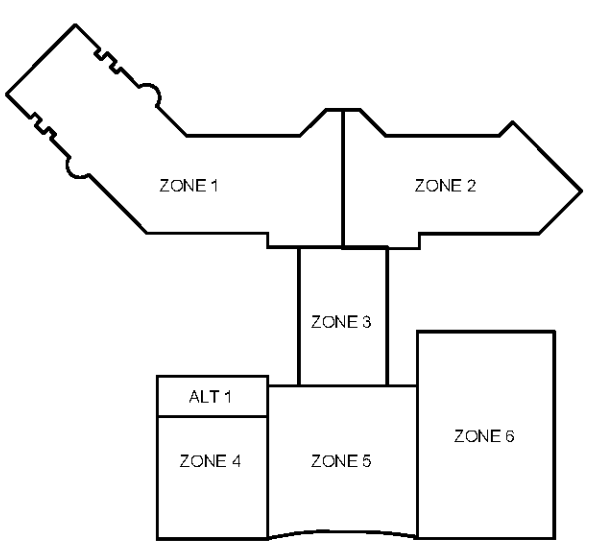
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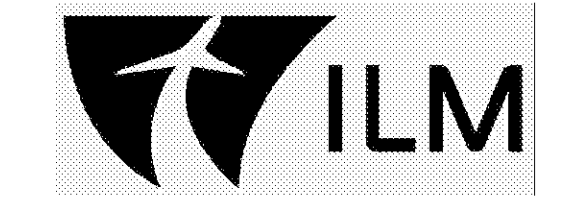
**REVISIONS**

DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE

**SCHEDULE 1 - ELECTRICAL BOARDING/TICKET LEVEL OVERALL PLAN**  
 SHEET NUMBER

**E1-140**

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
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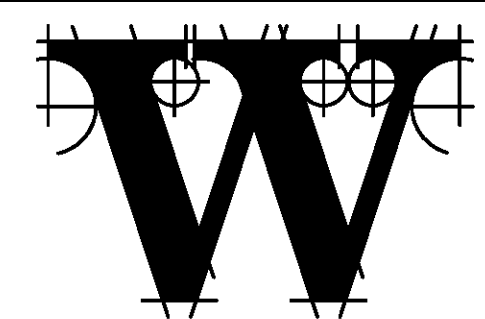
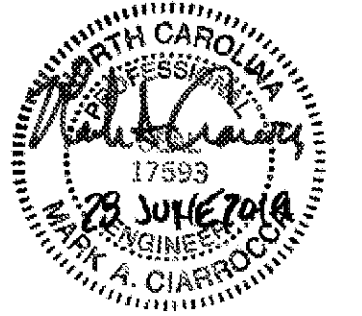


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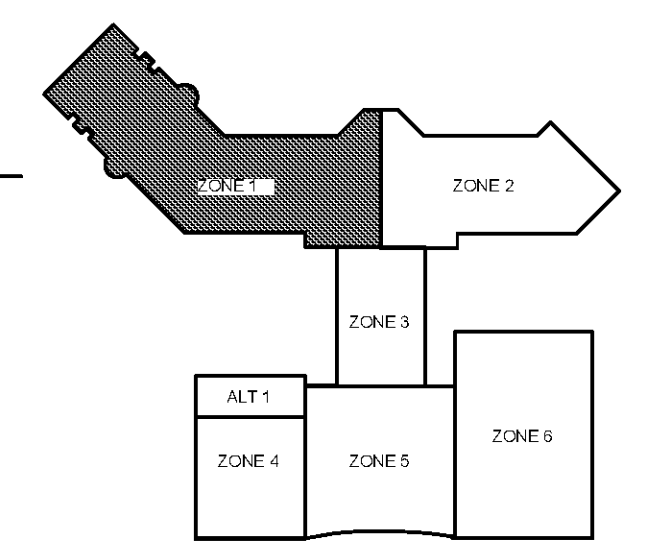
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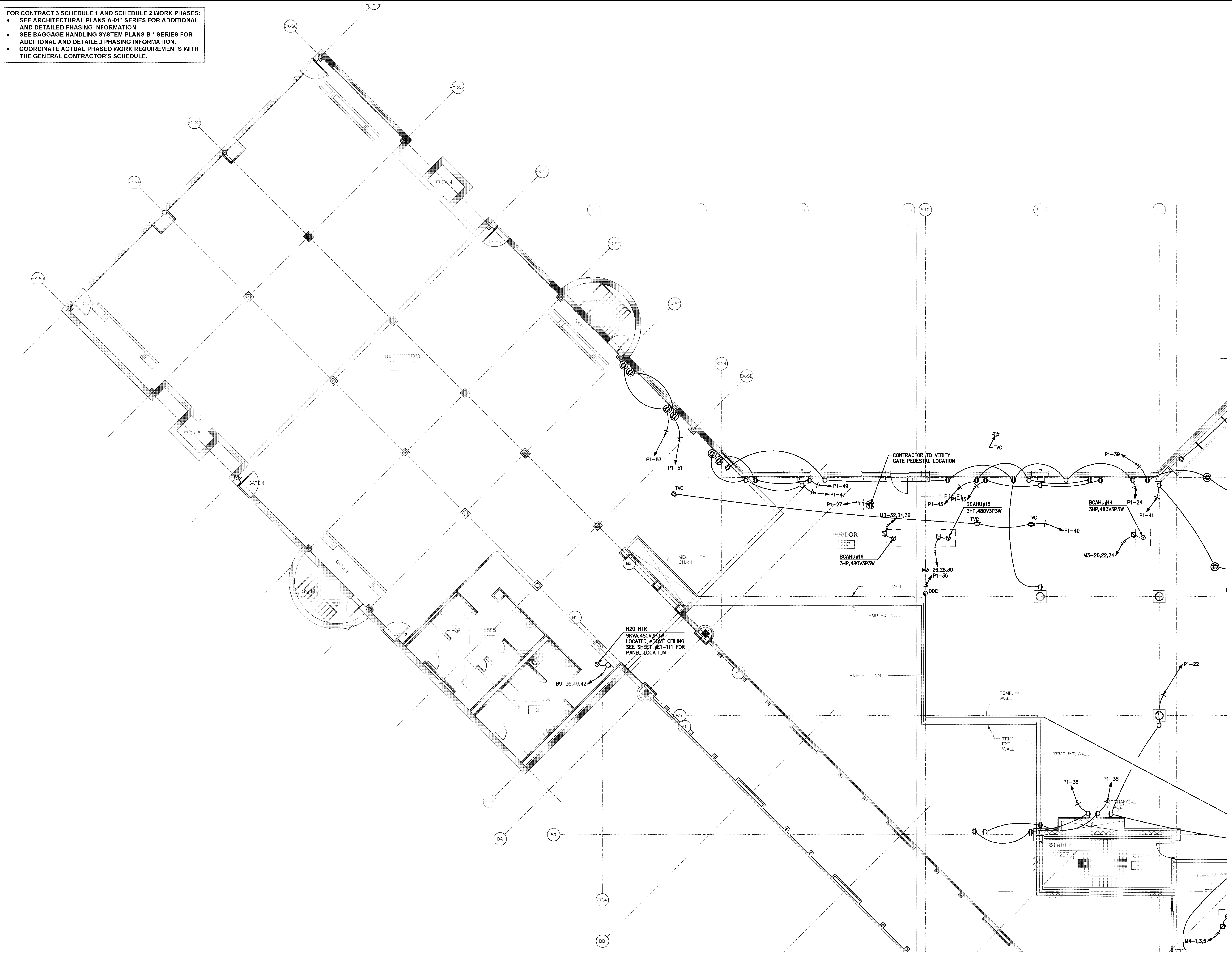
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DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE

**SCHEDULE 1 - ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 1**  
 SHEET NUMBER

**E1-141**



**SCHEDULE 1 - ELECTRICAL BOARDING LEVEL - POWER PLAN - ZONE 1**

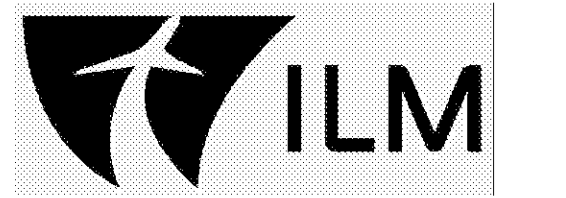
GRAPHIC SCALE: 1"=1'-0"  
 0 2 4 8 16



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

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
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KEYED NOTES:  
 ① OUTLET FOR ADULT CHANGING TABLE. MOUNTING HEIGHT IS 5'-1/8" TO TOP OF OUTLET AFF. COORDINATE EXACT LOCATION WITH EQUIPMENT VENDOR.

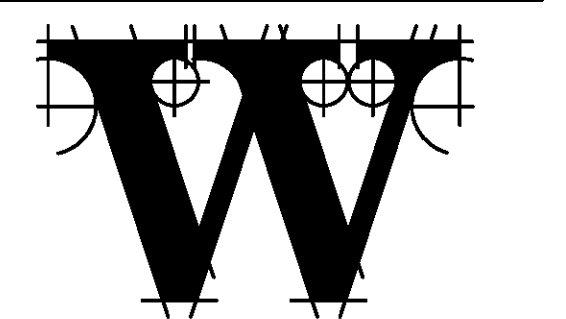
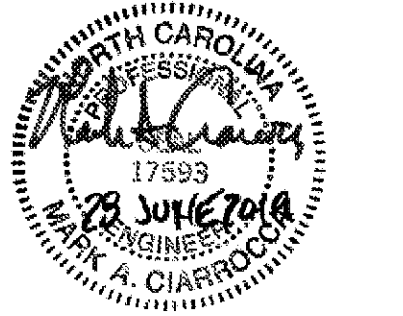


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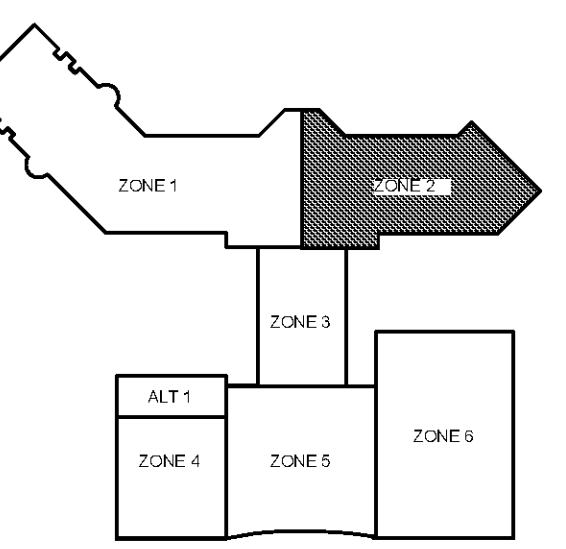
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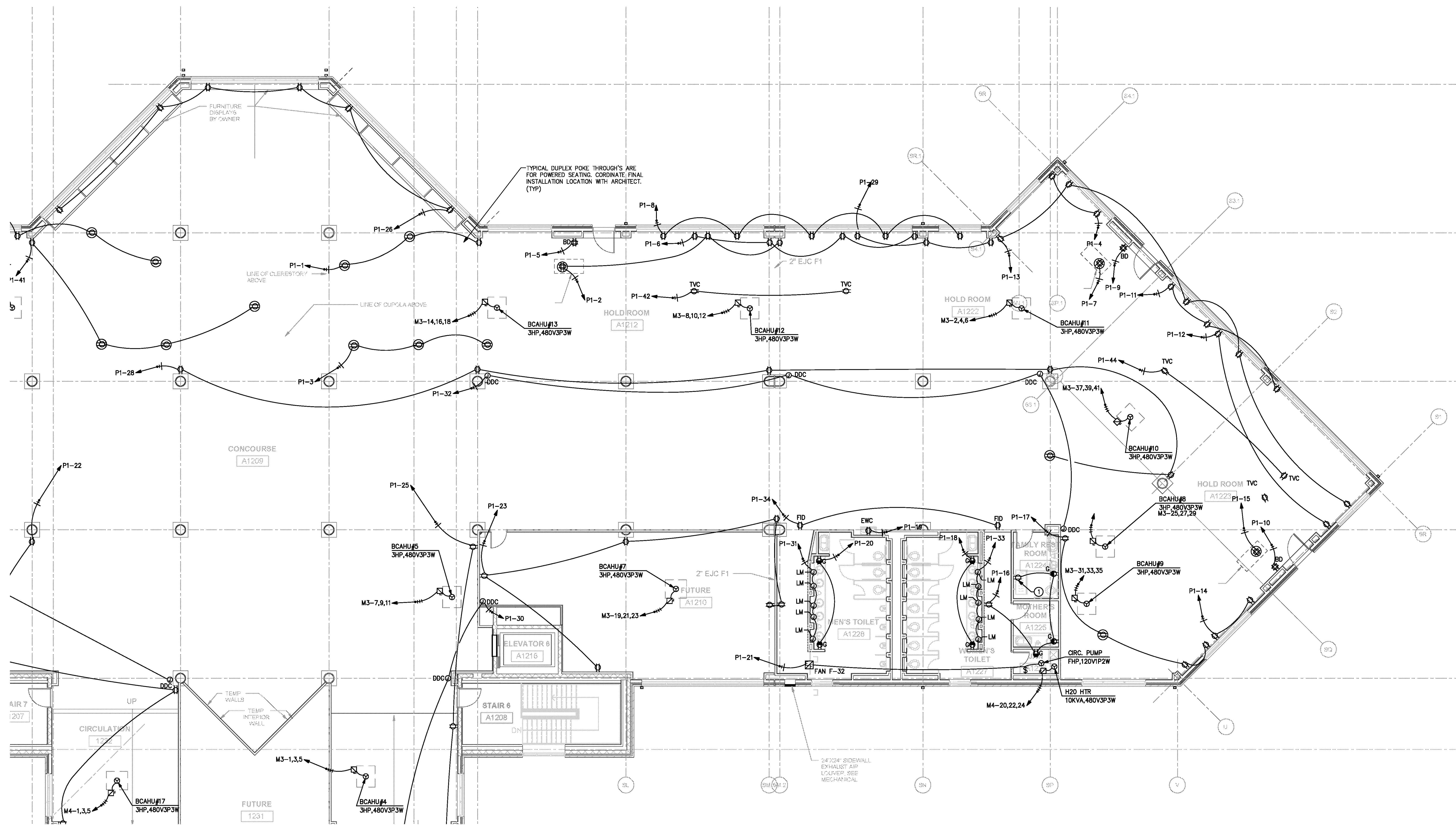
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DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE

**SCHEDULE 1 - ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 2**  
 SHEET NUMBER

**E1-142**



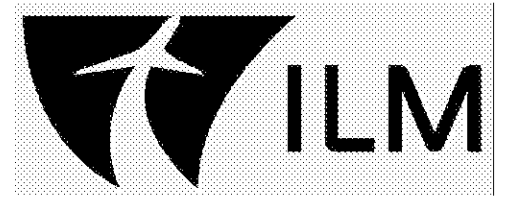
**SCHEDULE 1 - ELECTRICAL BOARDING LEVEL - POWER PLAN - ZONE 2**

GRAPHIC SCALE: 1/8" = 1'-0"  
 0 2 4 8 16



FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
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 • SEE BAGGAGE HANDLING SYSTEM PLANS B-\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.  
 • COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.

KEYED NOTES:  
 ① JUNCTION BOX FOR FUTURE RESTAURANT POWER. 1 1/2" C, 3#1, 1 N, #6G TO LOCATED IN EXISTING ELECTRICAL ROOM A5 (DSBA-5) LOCATED ON RAMP LEVEL. SEE E1-401 FOR LOCATION.

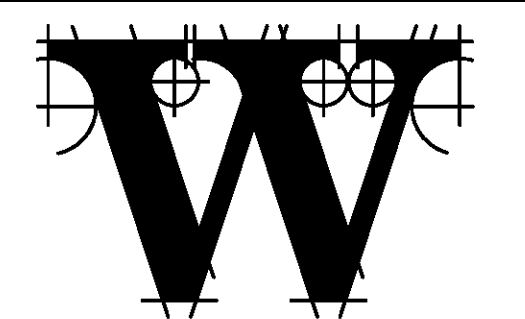
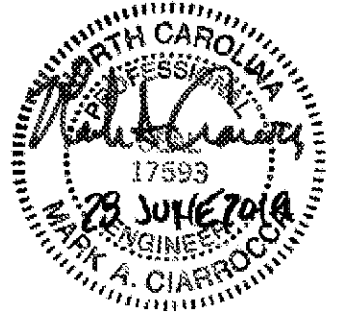


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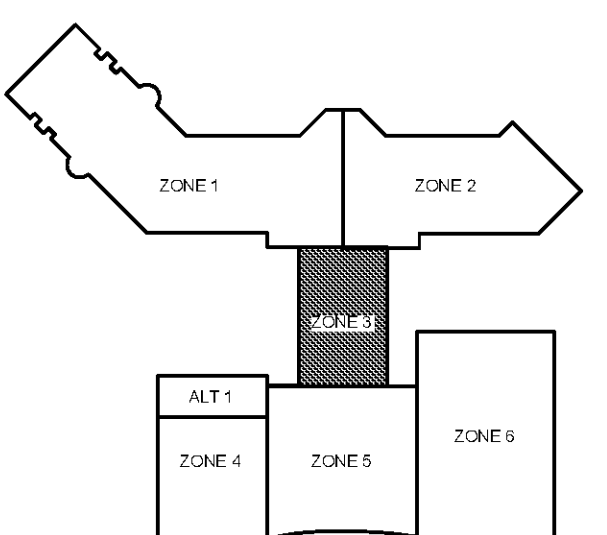
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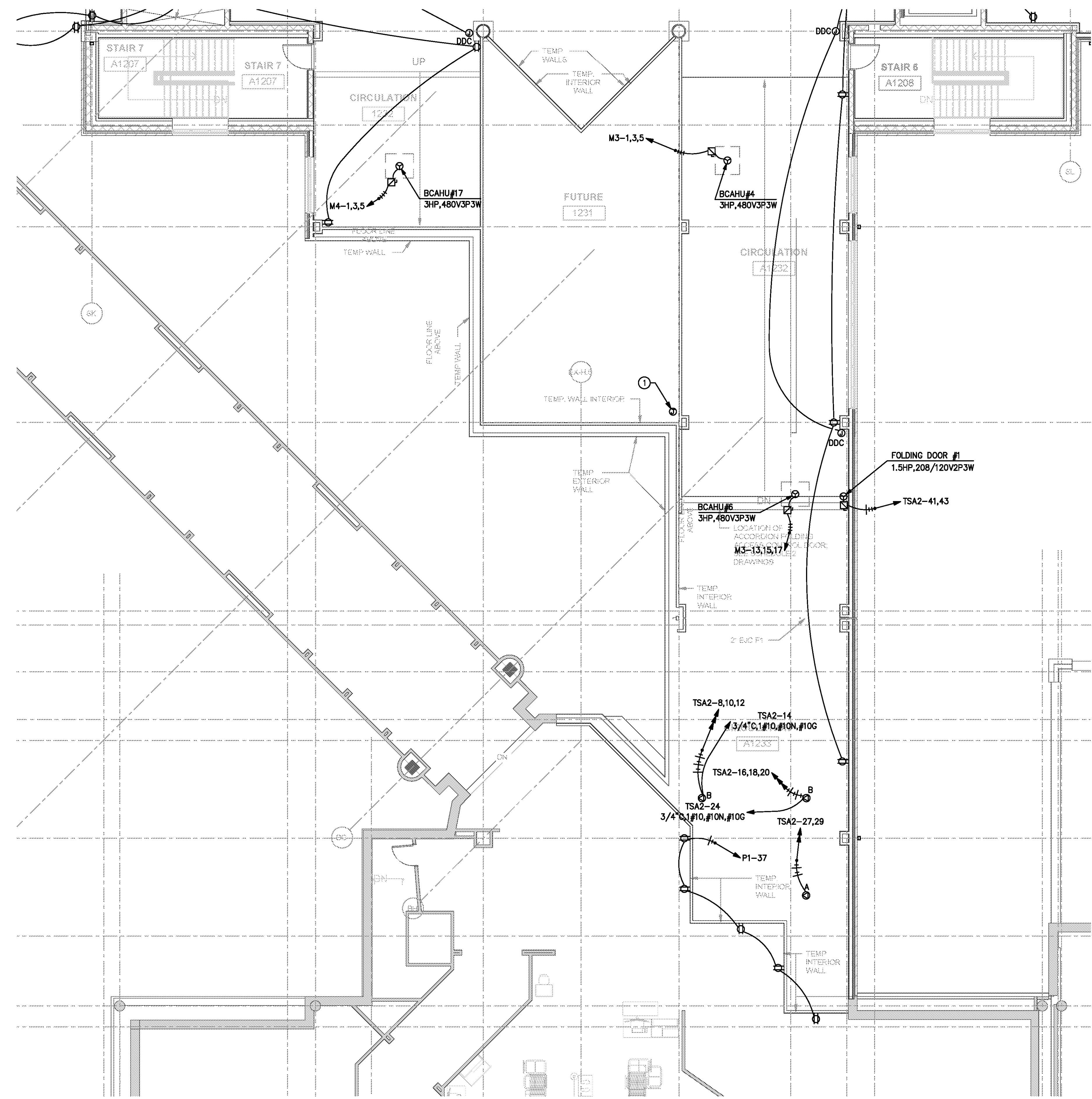
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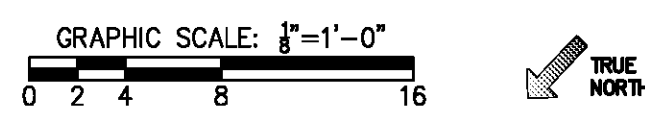
DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE

**SCHEDULE 1 - ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 3**  
 SHEET NUMBER

**E1-143**

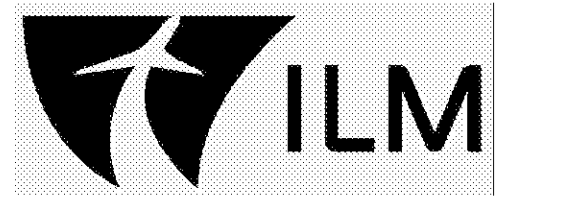


**SCHEDULE 1 - ELECTRICAL BOARDING LEVEL - POWER PLAN - ZONE 3**  
 SCALE: 1/8" = 1'-0"



FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
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 • COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.

NOTES:  
 1. LIGHTING FIXTURE SELECTION AND LAYOUT WERE PERFORMED BY HARTRANET LIGHTING DESIGN. INCLUSION HERE IS NOT INTENDED TO REPRESENT THAT THE FIXTURE SELECTION AND LAYOUT ARE A WORK PRODUCT OF CHEATHAM & ASSOCIATES, P.A. SEE LUMINAIRE SCHEDULE NOTE 1 FOR WHICH LIGHT FIXTURE TYPES THIS NOTE APPLIES TO.  
 2. NUMBER NEXT TO LIGHT FIXTURE INDICATES DIMMER SCHEDULED ZONE. GENERATOR POWERED LIGHT FIXTURES ARE CONTROLLED ON SAME DIMMER ZONE AS CORRESPONDING ROW.

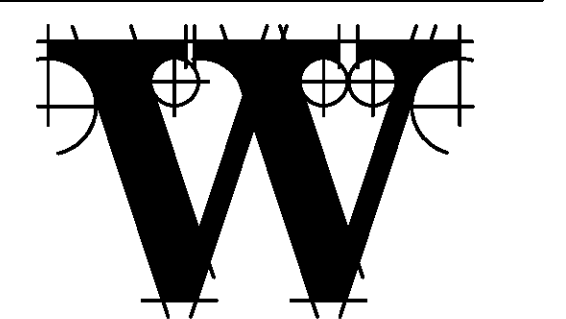
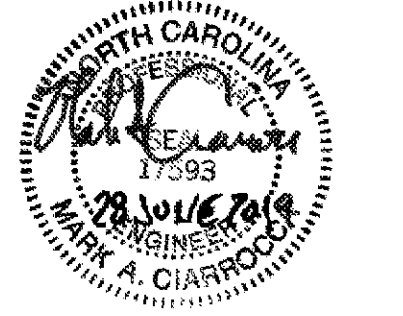


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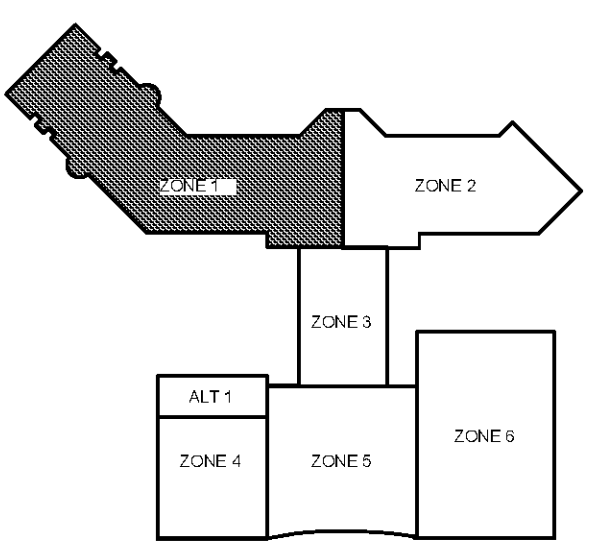
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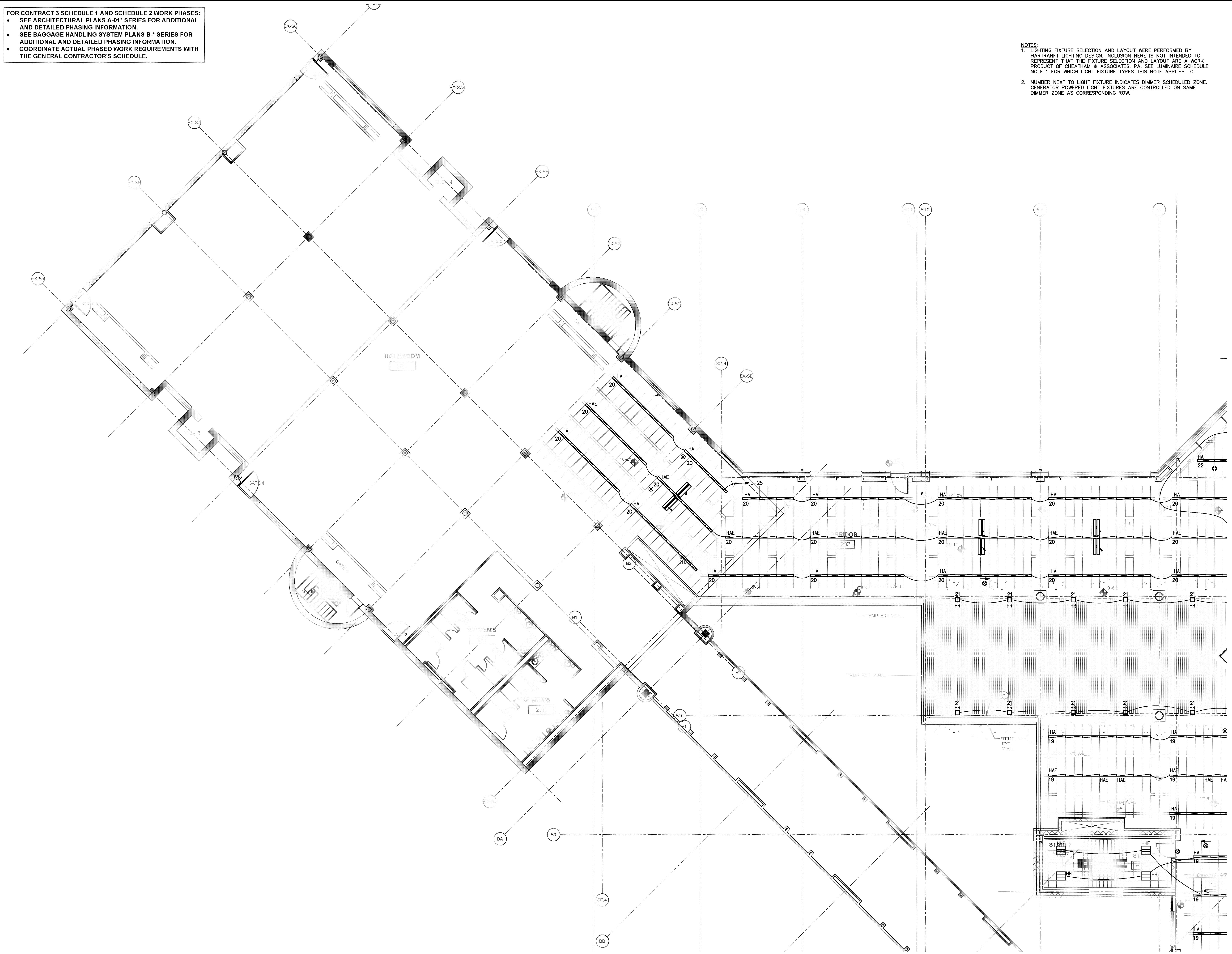
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DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE

**SCHEDULE 1 - ELECTRICAL BOARDING LEVEL LIGHTING PLAN ZONE 1**  
 SHEET NUMBER

**E1-151**



**SCHEDULE 1 - ELECTRICAL BOARDING LEVEL - LIGHTING PLAN - ZONE 1**

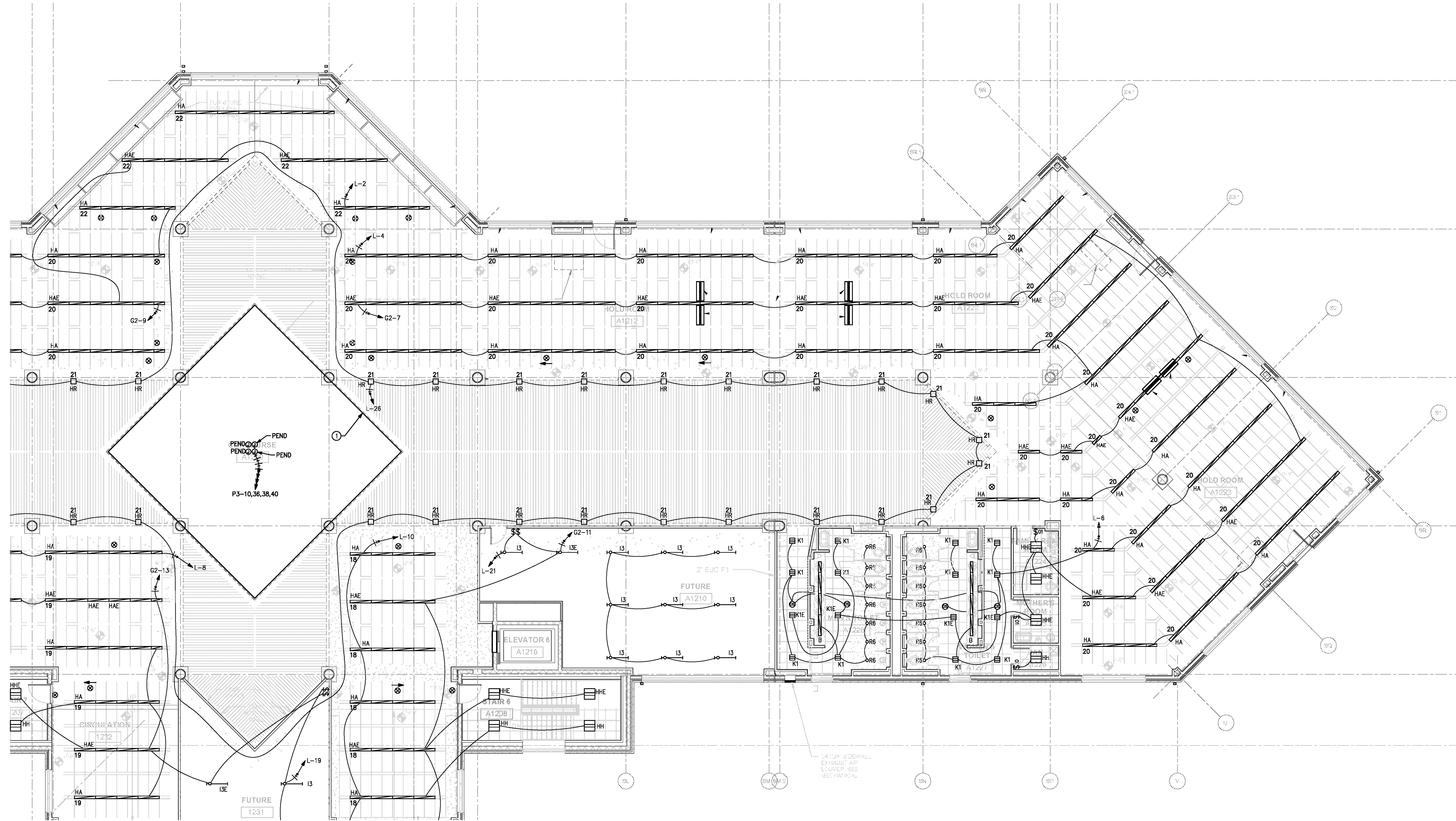
GRAPHIC SCALE: 1/8" = 1'-0"  
 0 2 4 8 16



FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
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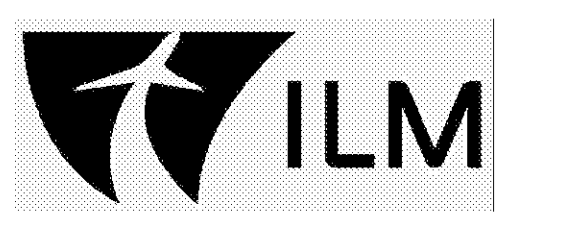
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KEYED NOTES:  
 ① THERE SHALL BE NO VISIBLE CONDUIT RUN THROUGH THIS AREA.



① SCHEDULE 1 - ELECTRICAL BOARDING LEVEL - LIGHTING PLAN - ZONE 2  
 SCALE: 1/8" = 1'-0"

GRAPHIC SCALE: 1" = 1'-0"  
 0 2 4 8 16

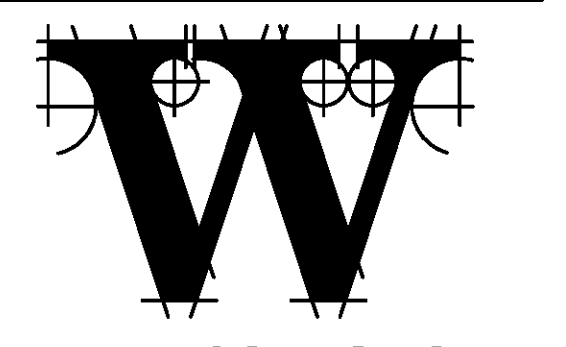
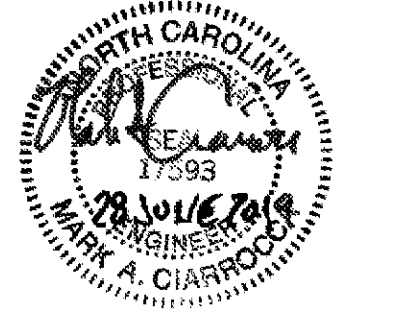


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STRUCTURAL ENGINEER  
**STEWART**

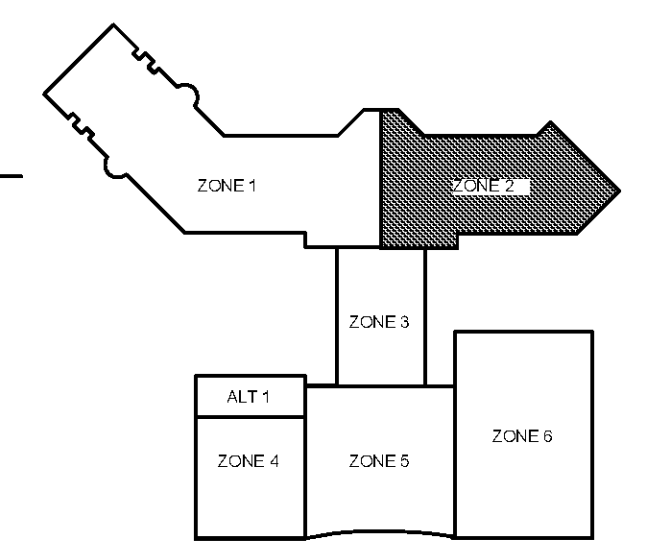
FP/PM/E ENGINEER  
**CHEATHAM & ASSOC.**

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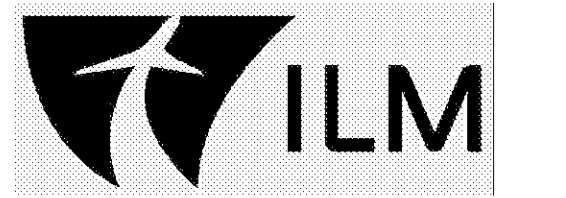
DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE

**SCHEDULE 1 - ELECTRICAL BOARDING LEVEL LIGHTING PLAN ZONE 2**  
 SHEET NUMBER

**E1-152**

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
 • SEE ARCHITECTURAL PLANS A-01\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.  
 • SEE BAGGAGE HANDLING SYSTEM PLANS B-\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.  
 • COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.

NOTES:  
 1. LIGHTING FIXTURE SELECTION AND LAYOUT WERE PERFORMED BY HARTRANFT LIGHTING DESIGN. INCLUSION HERE IS NOT INTENDED TO REPRESENT THAT THE FIXTURE SELECTION AND LAYOUT ARE A WORK PRODUCT OF CHEATHAM & ASSOCIATES, P.A. SEE LUMINAIRE SCHEDULE NOTE 1 FOR WHICH LIGHT FIXTURE TYPES THIS NOTE APPLIES TO.  
 2. NUMBER NEXT TO LIGHT FIXTURE INDICATES DIMMER SCHEDULED ZONE. GENERATOR POWERED LIGHT FIXTURES ARE CONTROLLED ON SAME DIMMER ZONE AS CORRESPONDING ROW.

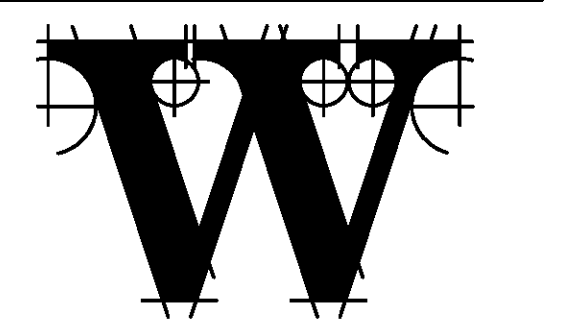
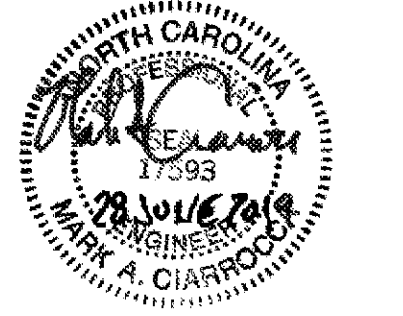


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**CHEATHAM & ASSOCIATES, P.A.**  
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JOB # 19005



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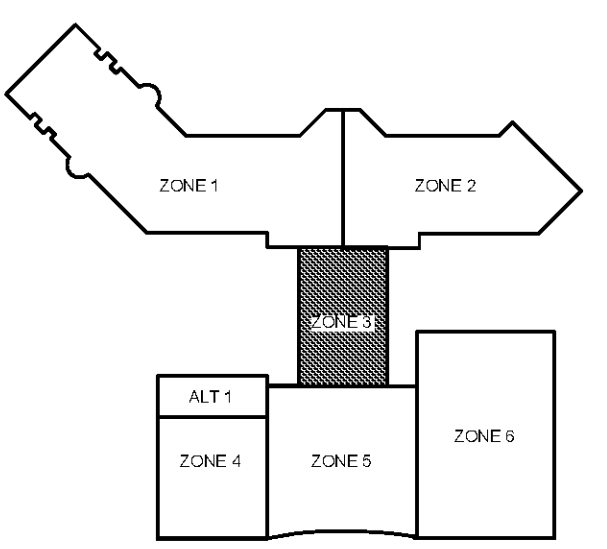
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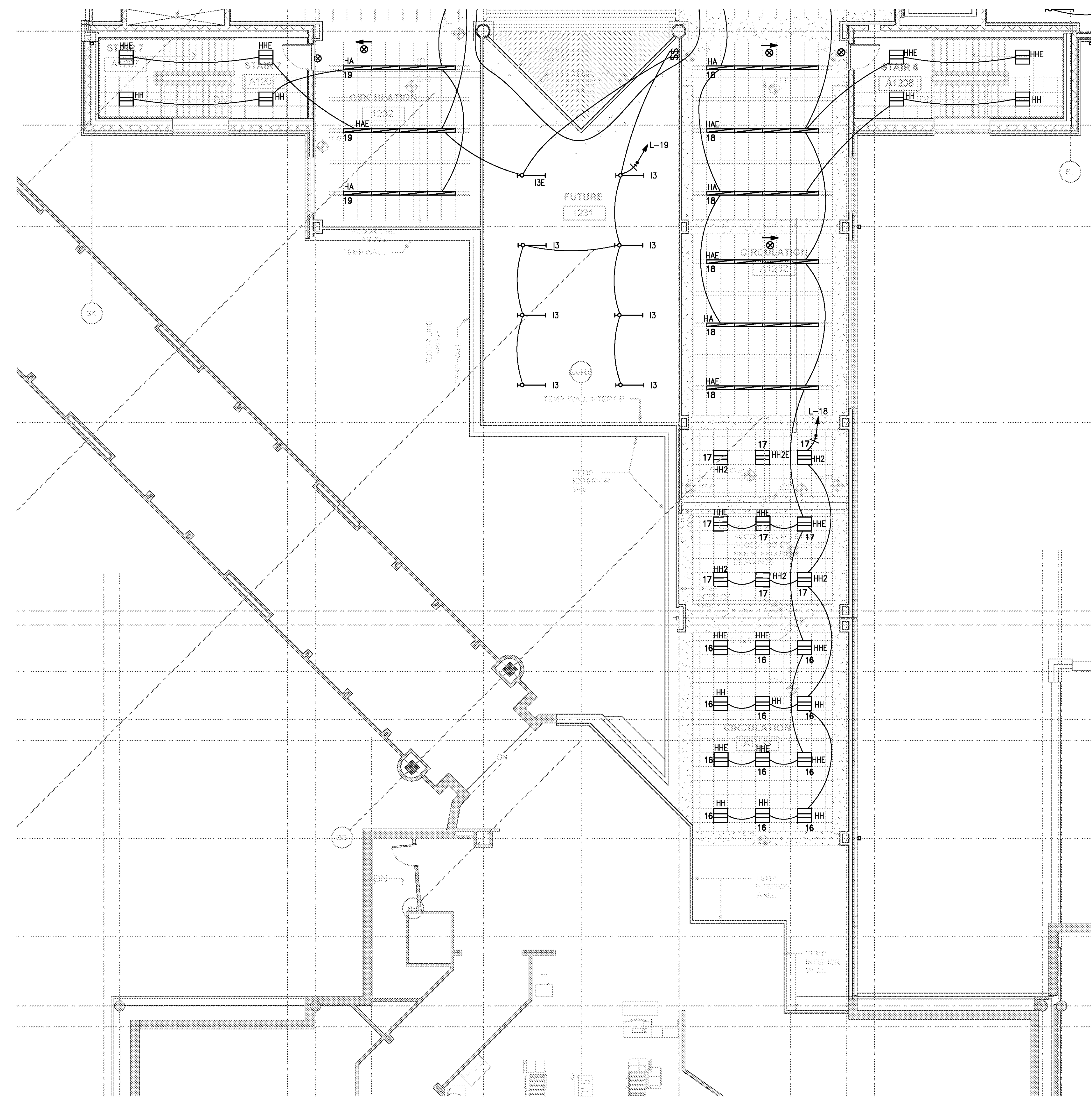
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DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE

**SCHEDULE 1 - ELECTRICAL BOARDING LEVEL LIGHTING PLAN ZONE 3**  
 SHEET NUMBER

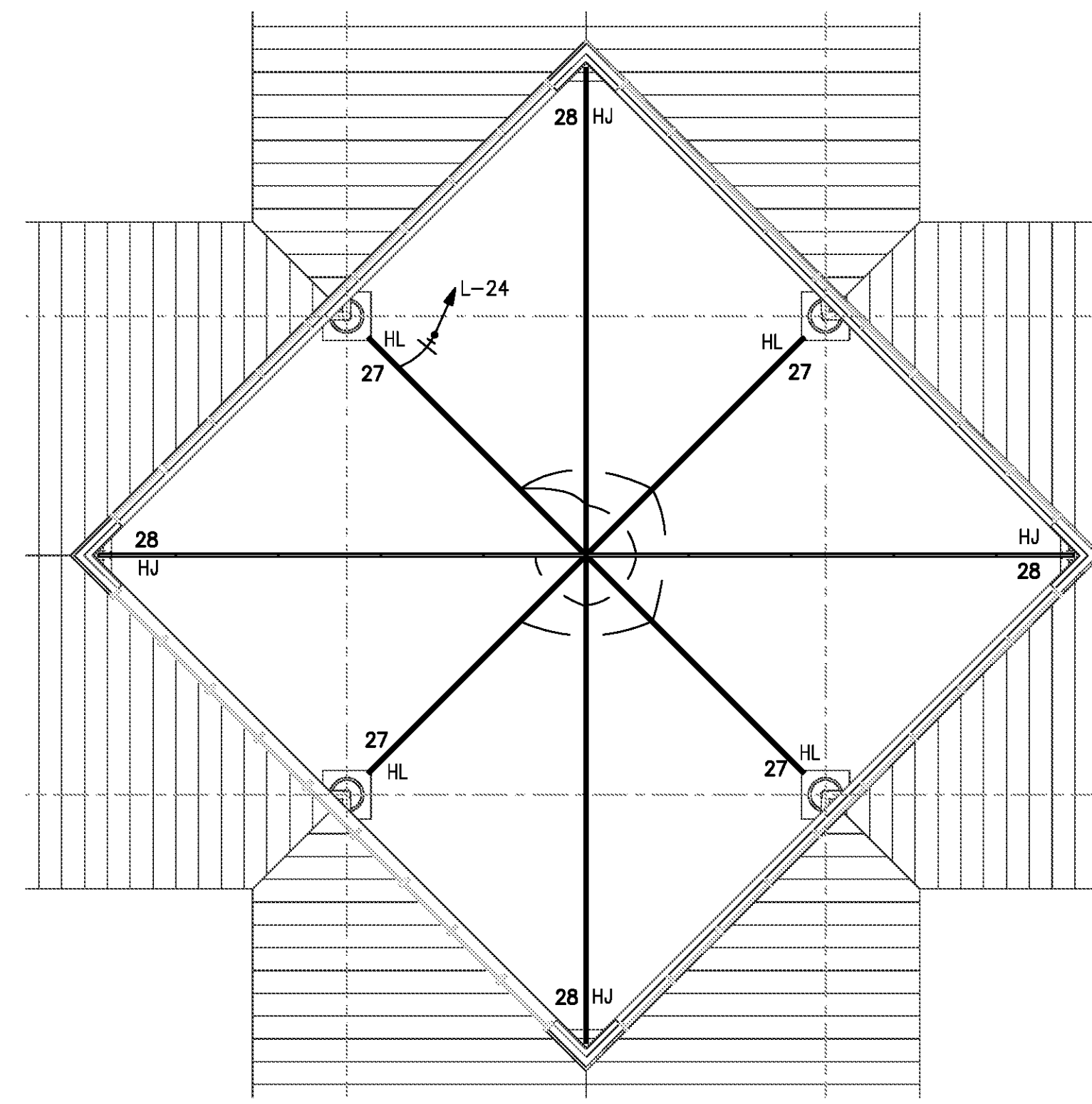
**E1-153**



**SCHEDULE 1 - ELECTRICAL BOARDING LEVEL - LIGHTING PLAN - ZONE 3**

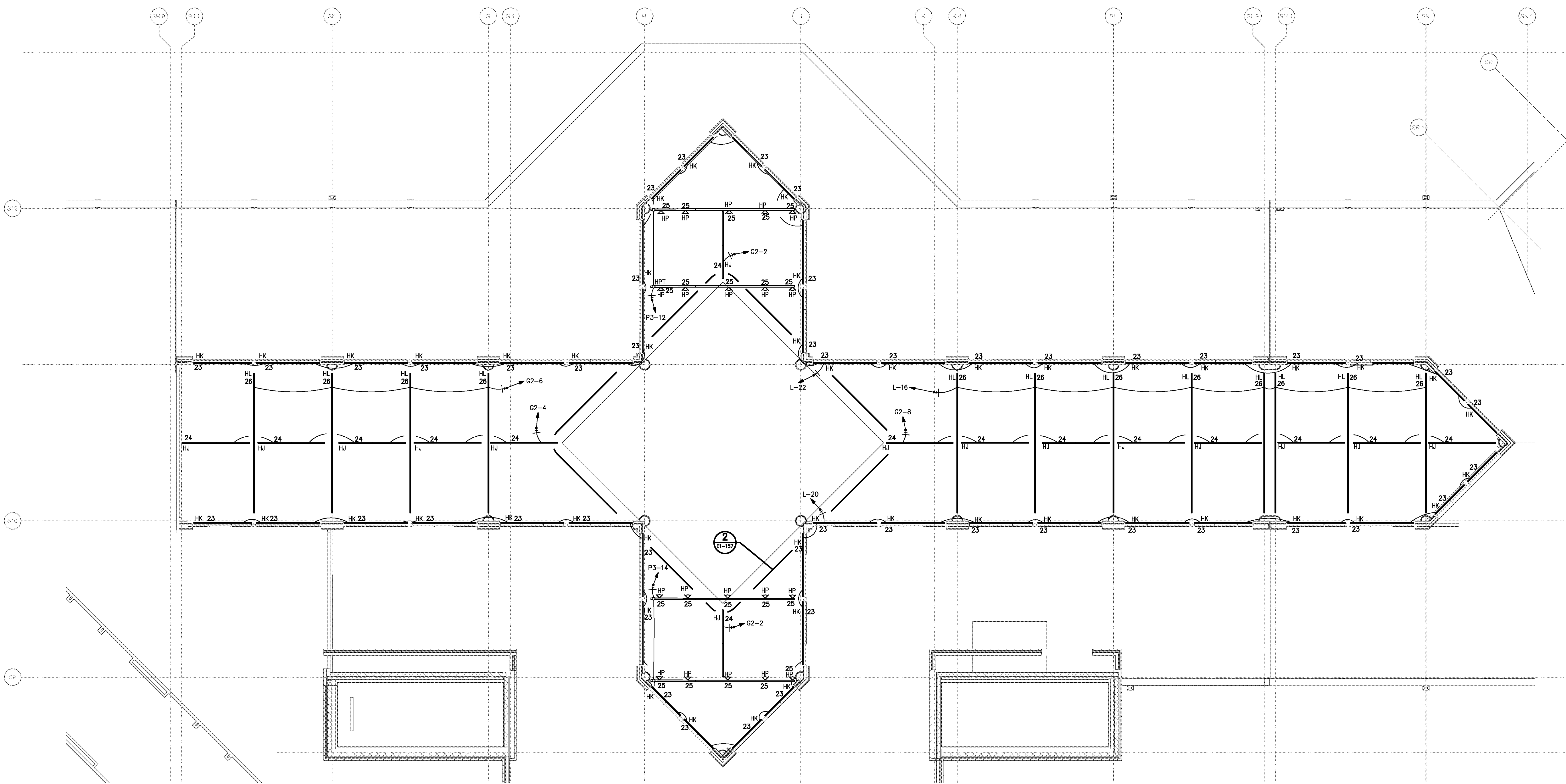
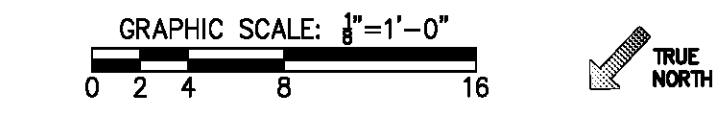
GRAPHIC SCALE: 1/8" = 1'-0"  
 0 2 4 8 16  
 TRUE NORTH

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
 • SEE ARCHITECTURAL PLANS A-01\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.  
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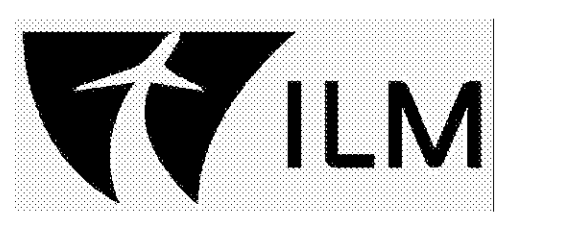
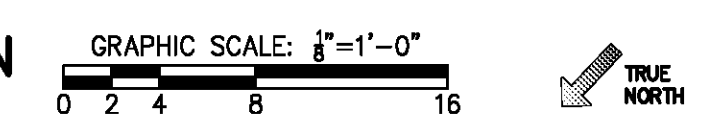


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 2. NUMBER NEXT TO LIGHT FIXTURE INDICATES DIMMER SCHEDULED ZONE.

**2** SCHEDULE 1 - ELECTRICAL CUPOLA LEVEL - LIGHTING PLAN  
 SCALE: 1/8" = 1'-0"



**1** SCHEDULE 1 - ELECTRICAL CLERESTORY LEVEL - LIGHTING PLAN  
 SCALE: 1/8" = 1'-0"

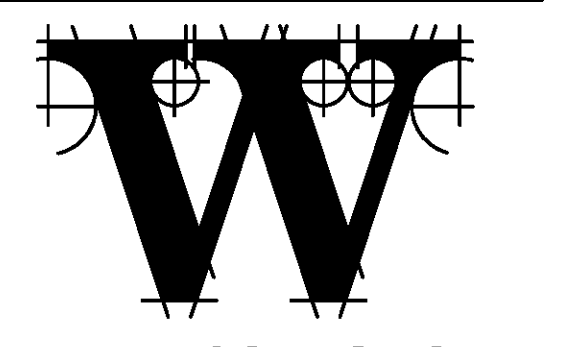
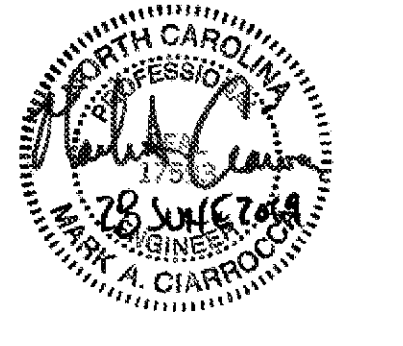


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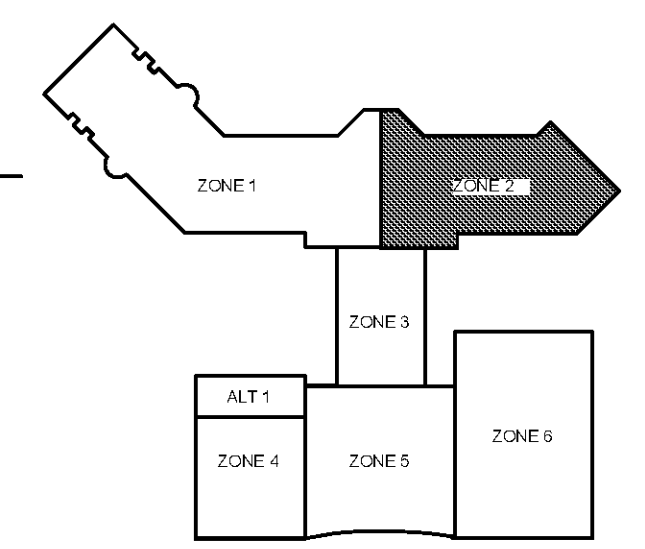
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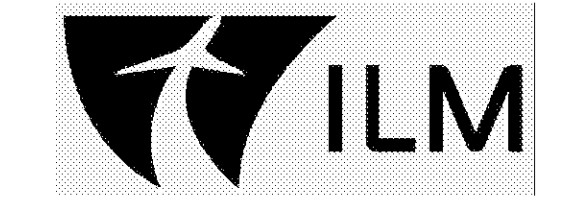
REVISIONS

DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE

**SCHEDULE 1 - ELECTRICAL CLERESTORY & CUPOLA LEVEL LIGHTING PLAN**  
 SHEET NUMBER

**E1-157**

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
 • SEE ARCHITECTURAL PLANS A-01\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.  
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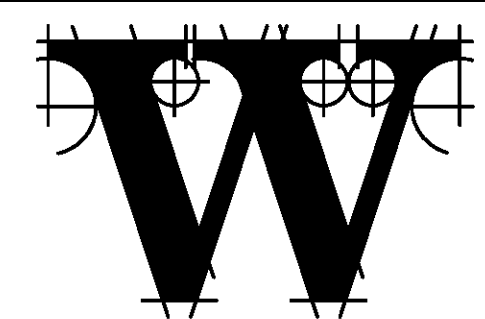
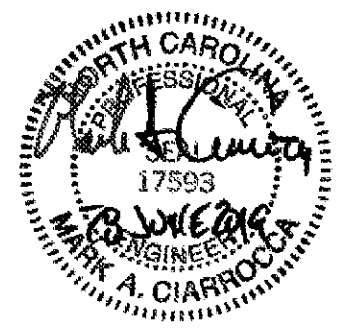


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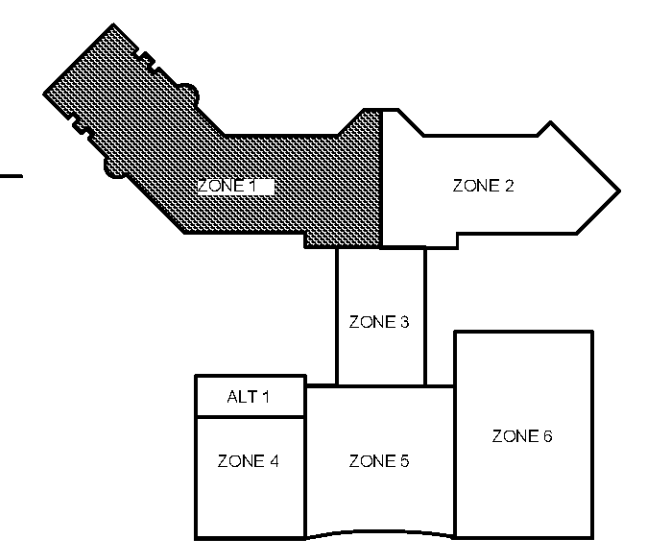
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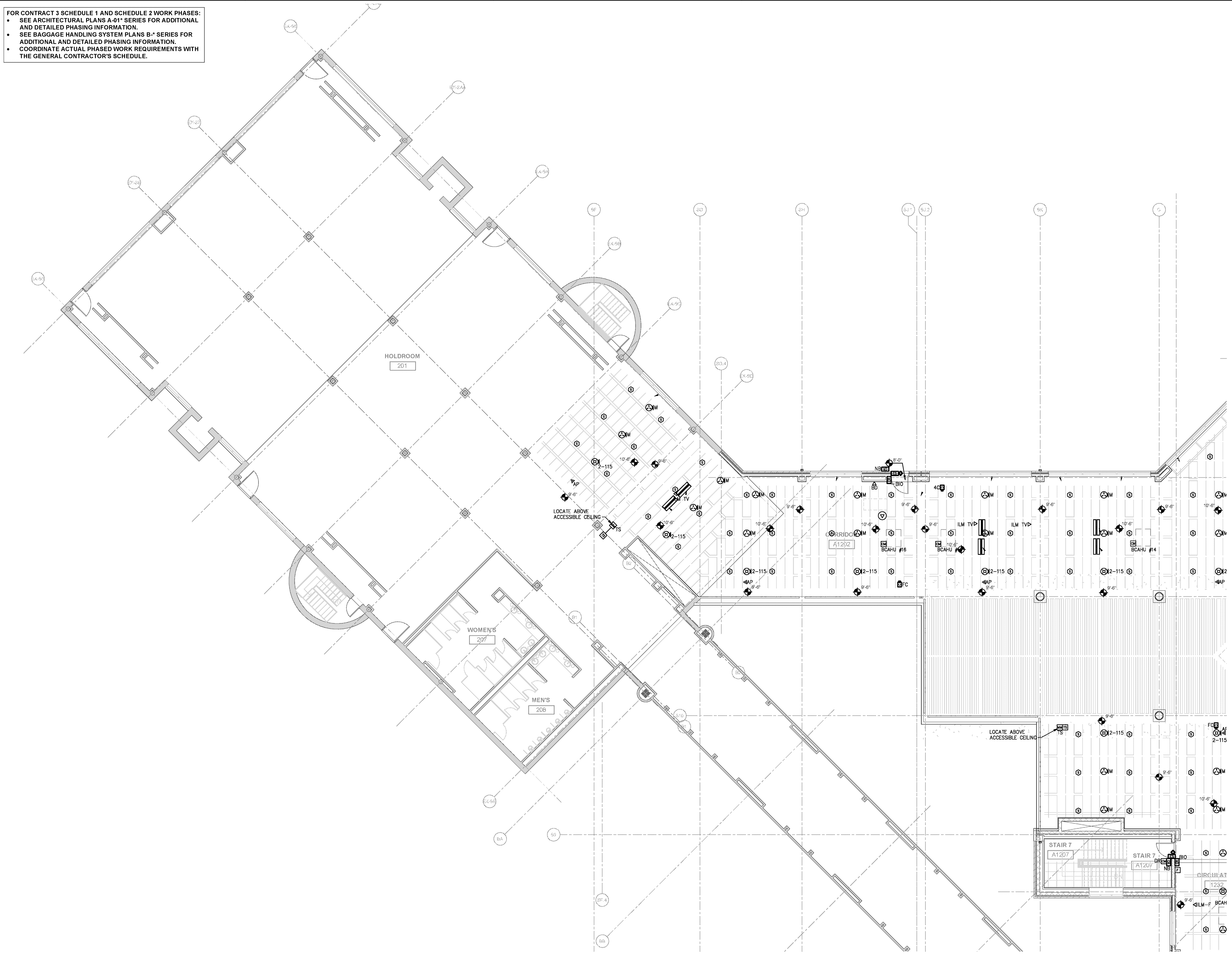
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DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE

**SCHEDULE 1 - ELECTRICAL BOARDING LEVEL AUXILIARY SYSTEMS PLAN ZONE 1**  
 SHEET NUMBER

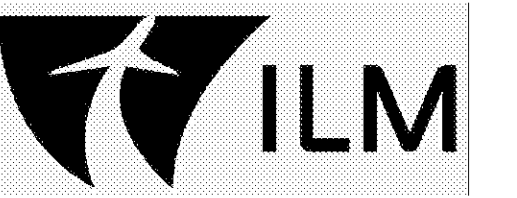
**E1-161**



**SCHEDULE 1 - ELECTRICAL BOARDING LEVEL - AUXILIARY SYSTEMS PLAN - ZONE 1**  
 SCALE: 1/8" = 1'-0" GRAPHIC SCALE: 1"=1'-0"



FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
 • SEE ARCHITECTURAL PLANS A-01\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.  
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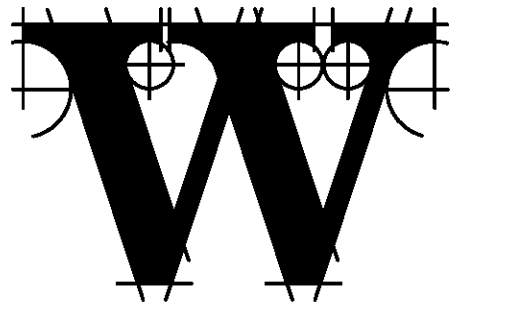


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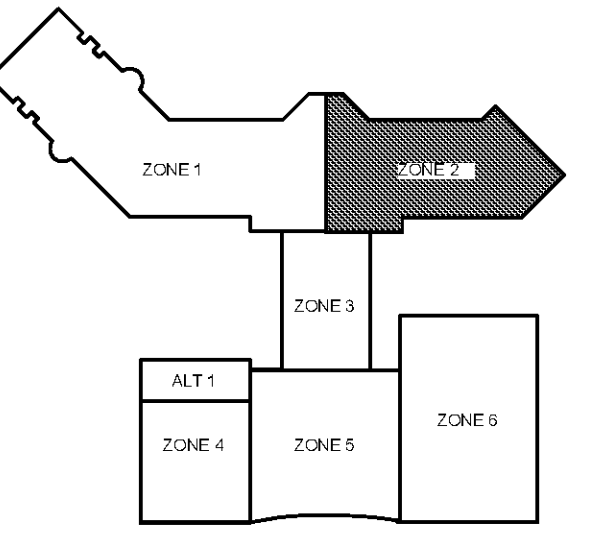
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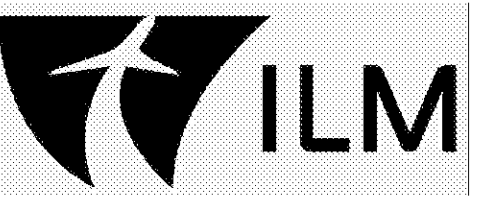
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 SHEET NUMBER

**E1-162**



**SCHEDULE 1 - ELECTRICAL BOARDING LEVEL - AUXILIARY SYSTEMS PLAN - ZONE 2**  
 SCALE: 1/8" = 1'-0"  
 GRAPHIC SCALE: 1" = 1'-0"  
 TRUE NORTH

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
 • SEE ARCHITECTURAL PLANS A-01\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.  
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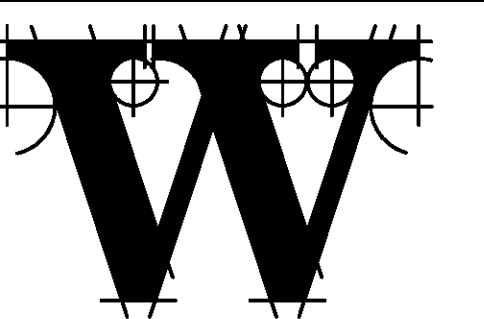
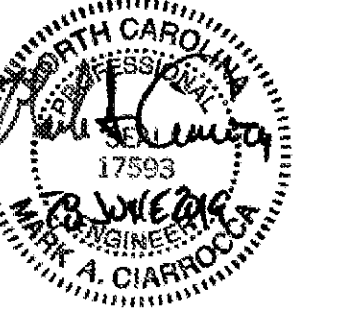


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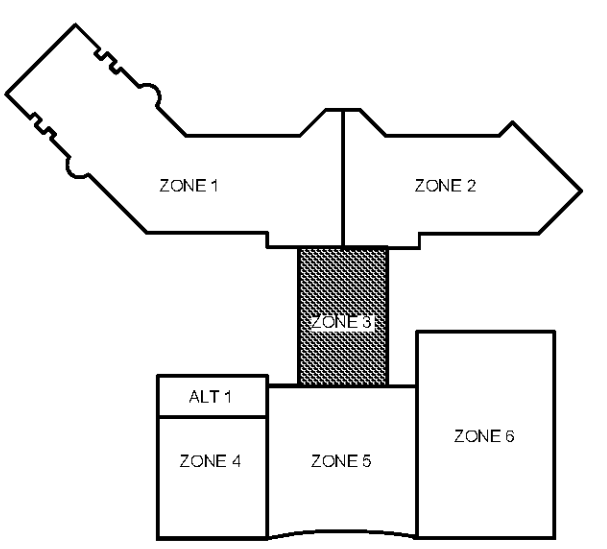
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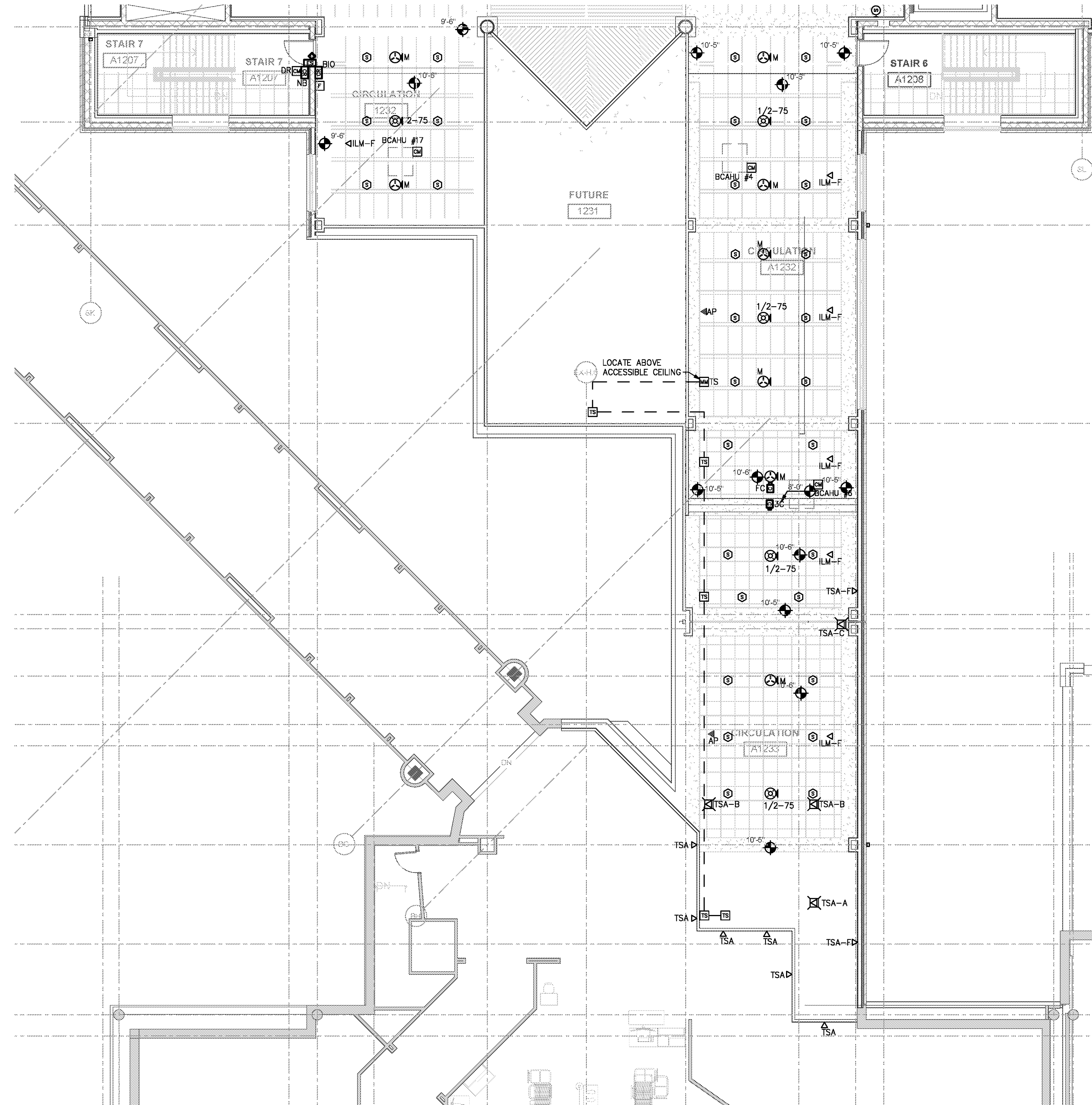
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DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE

**SCHEDULE 1 - ELECTRICAL BOARDING LEVEL - AUXILIARY SYSTEMS PLAN ZONE 3**  
 SHEET NUMBER

**E1-163**



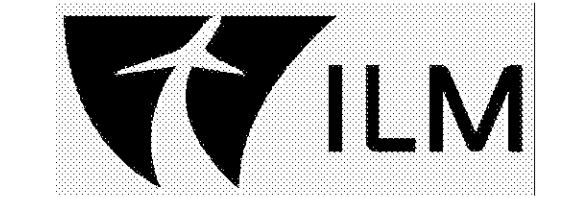
**SCHEDULE 1 - ELECTRICAL BOARDING LEVEL - AUXILIARY SYSTEMS PLAN - ZONE 3**

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

GRAPHIC SCALE: 1"=1'-0"



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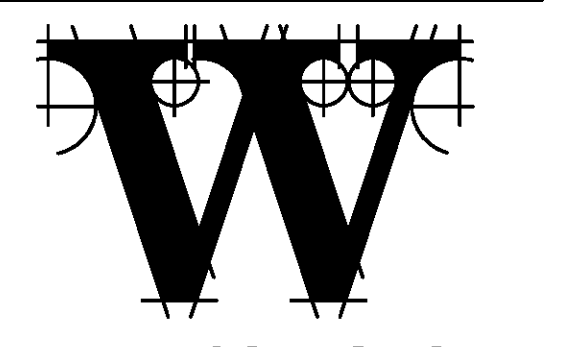
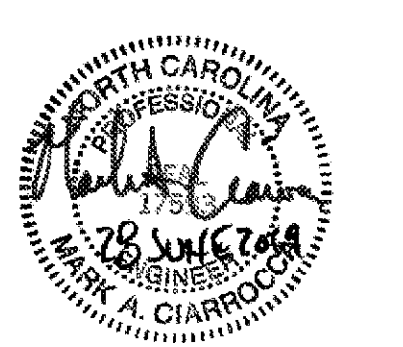


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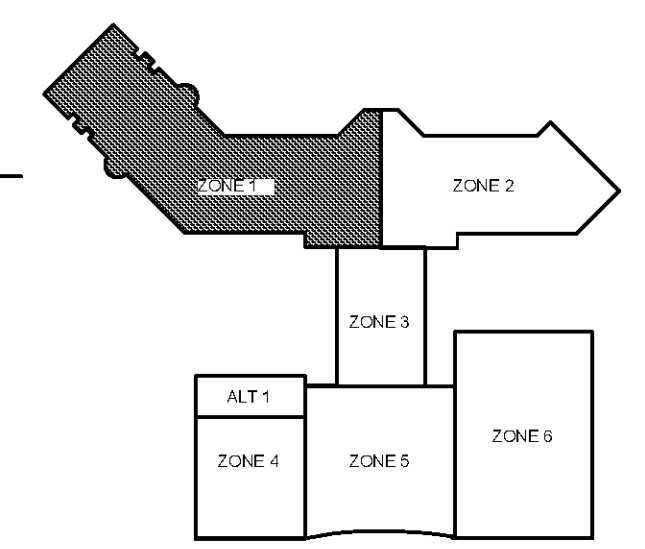
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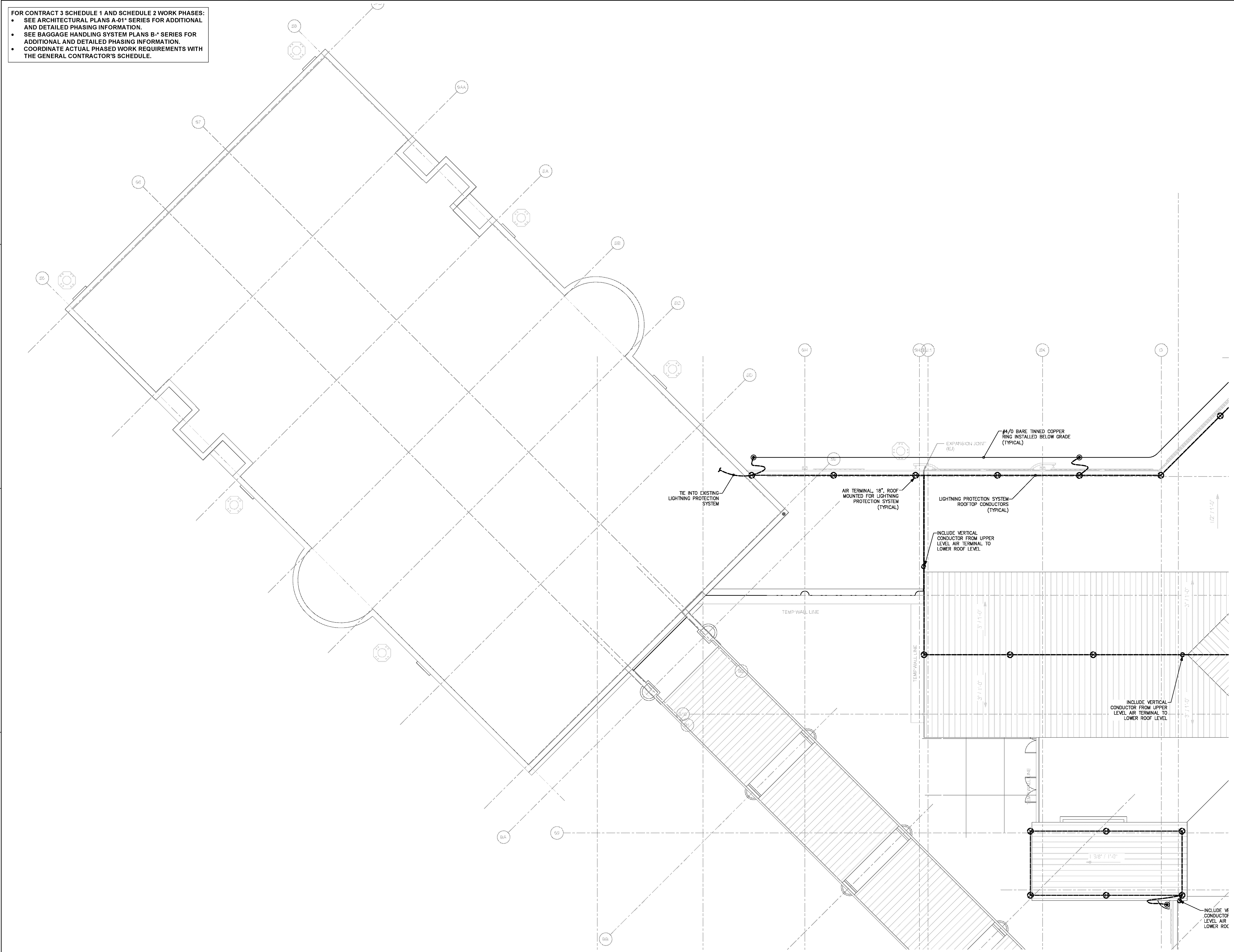
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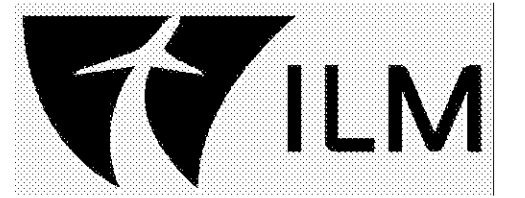
DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE

**SCHEDULE 1 - ELECTRICAL ROOF PLAN ZONE 1**

SHEET NUMBER  
**E1-171**



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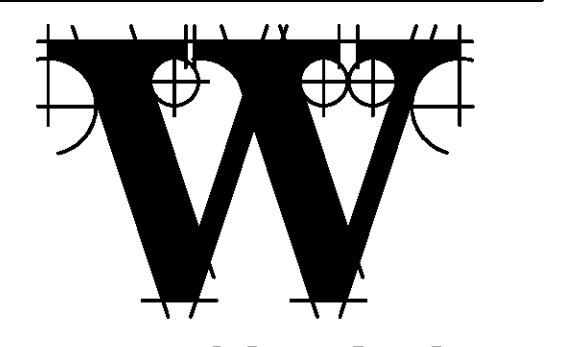
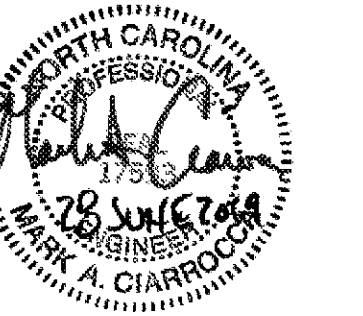


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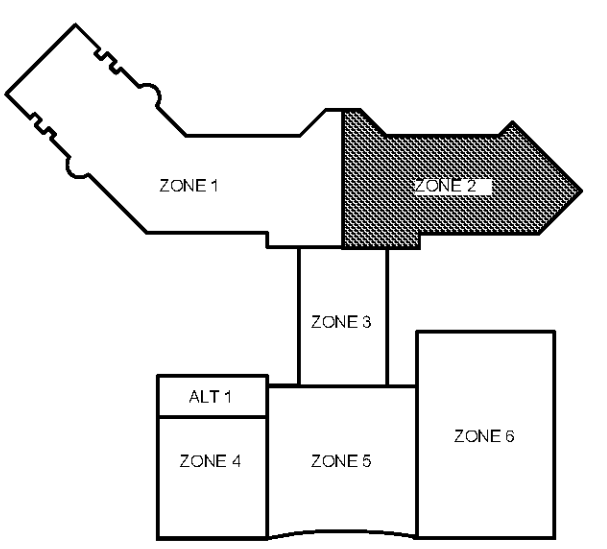
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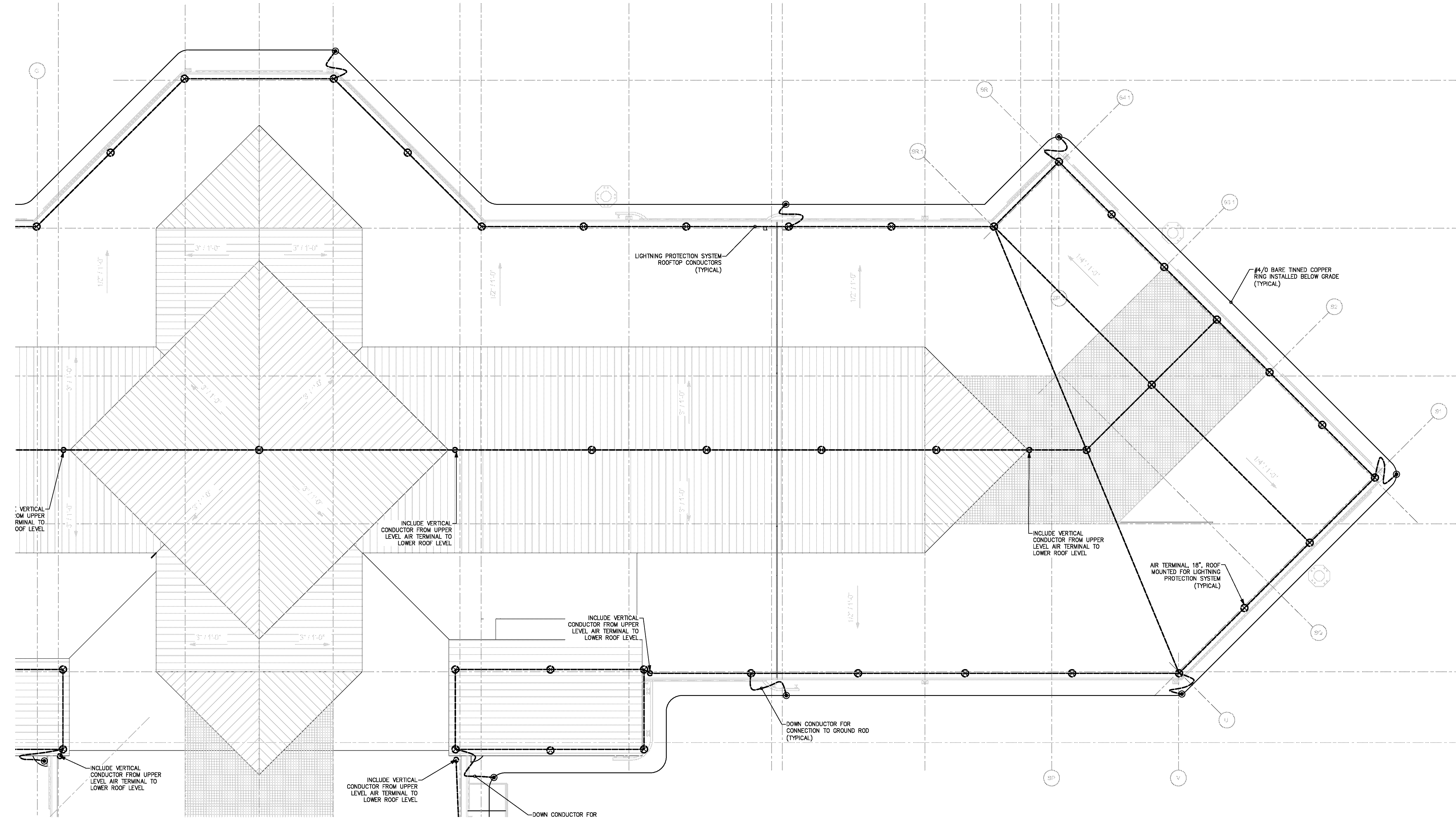
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DATE 06/28/19  
 PROJECT NUMBER 9202-000  
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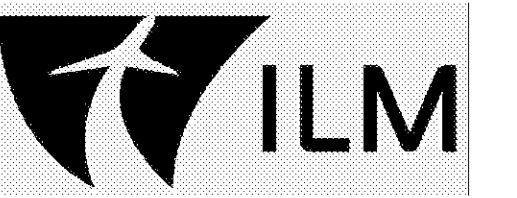
**SCHEDULE 1 - ELECTRICAL ROOF PLAN ZONE 2**

SHEET NUMBER  
**E1-172**



**SCHEDULE 1 - ELECTRICAL ROOF PLAN - ZONE 2**  
 SCALE: 1/8" = 1'-0" GRAPHIC SCALE: 1/8" = 1'-0" TRUE NORTH

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
 • SEE ARCHITECTURAL PLANS A-01\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.  
 • SEE BAGGAGE HANDLING SYSTEM PLANS B-\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.  
 • COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.

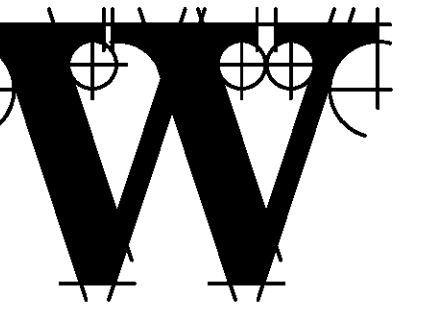
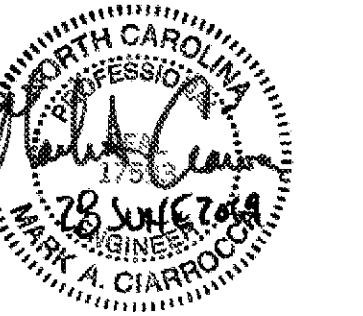


**TERMINAL IMPROVEMENTS CONTRACT 3**

Wilmington International Airport  
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 Wilmington, NC 28405

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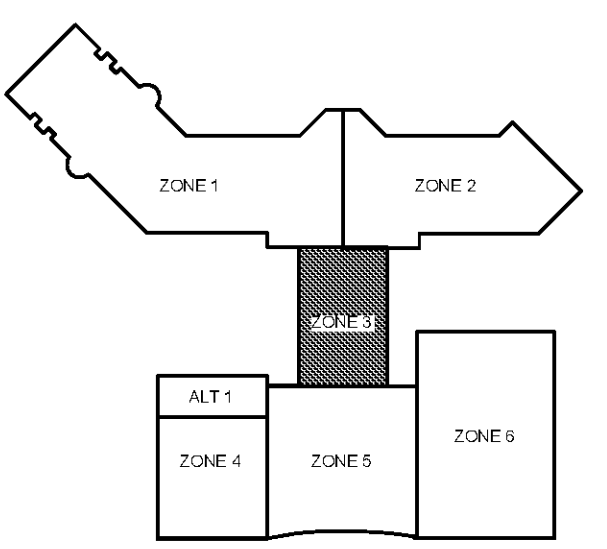
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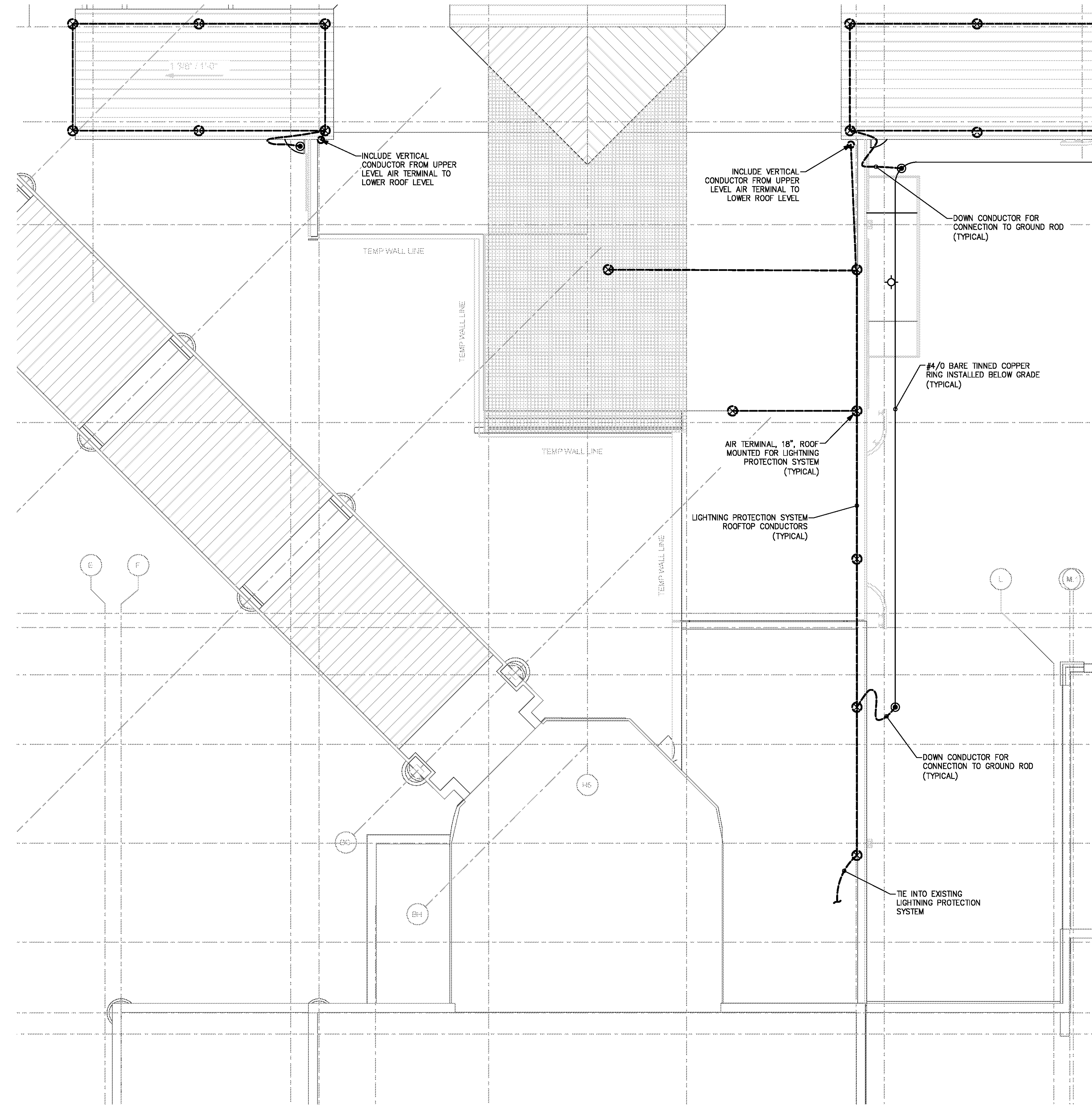


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**SCHEDULE 1 - ELECTRICAL ROOF PLAN - ZONE 3**

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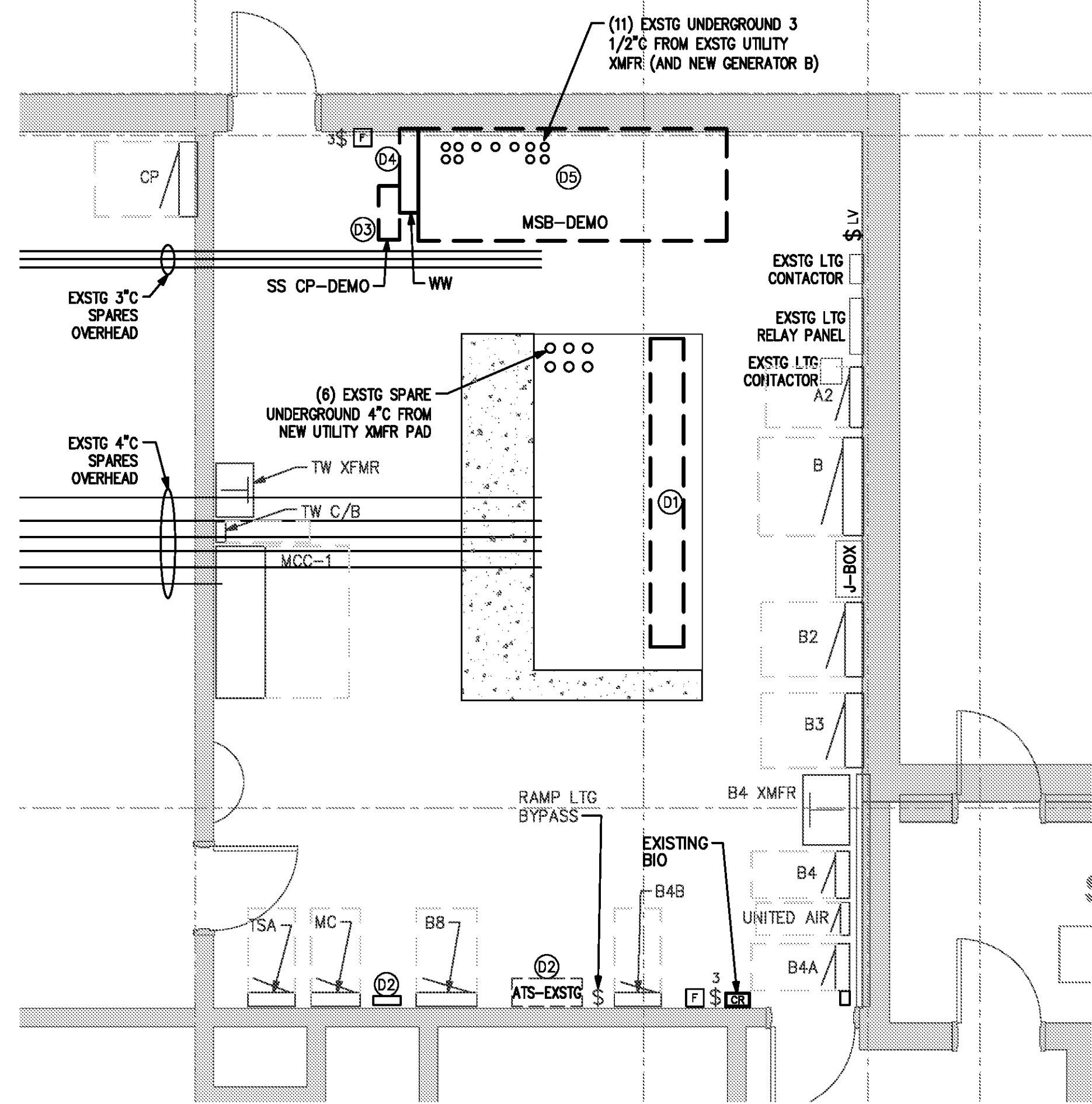


DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE

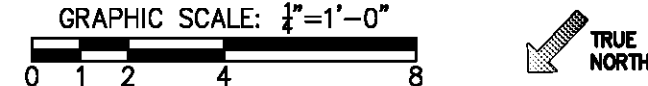
**SCHEDULE 1 - ELECTRICAL ROOF PLAN ZONE 3**

SHEET NUMBER  
**E1-173**

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
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**1 ELECTRICAL PLAN – EXISTING ELECTRICAL ROOM A5**  
 SCALE: 1/4" = 1'-0"



KEYED NOTES DEMOLITION WORK:

- ① EXISTING METER CENTER EQUIPMENT TO BE REMOVED.
- ② EXISTING ATS TO BE REMOVED. LEAVE ENCLOSURE TO UTILIZE AS A SPLICE BOX.
- ③ EXISTING 600V, 3P, 600A SAFETY SWITCH FOR PANEL "CP" TO BE REMOVED.
- ④ EXISTING WIREWAY TO BE REMOVED.
- ⑤ EXISTING 2500A SWITCHBOARD TO BE REMOVED.
- ⑥ EXISTING GENERATOR REMOTE ANNUNCIATOR TO BE REMOVED. REMOVE CIRCUITRY TO GENERATOR AT GATE AREA.

MAIN ELECTRICAL ROOM DISTRIBUTION REWORK (PROPOSED SEQUENCE)

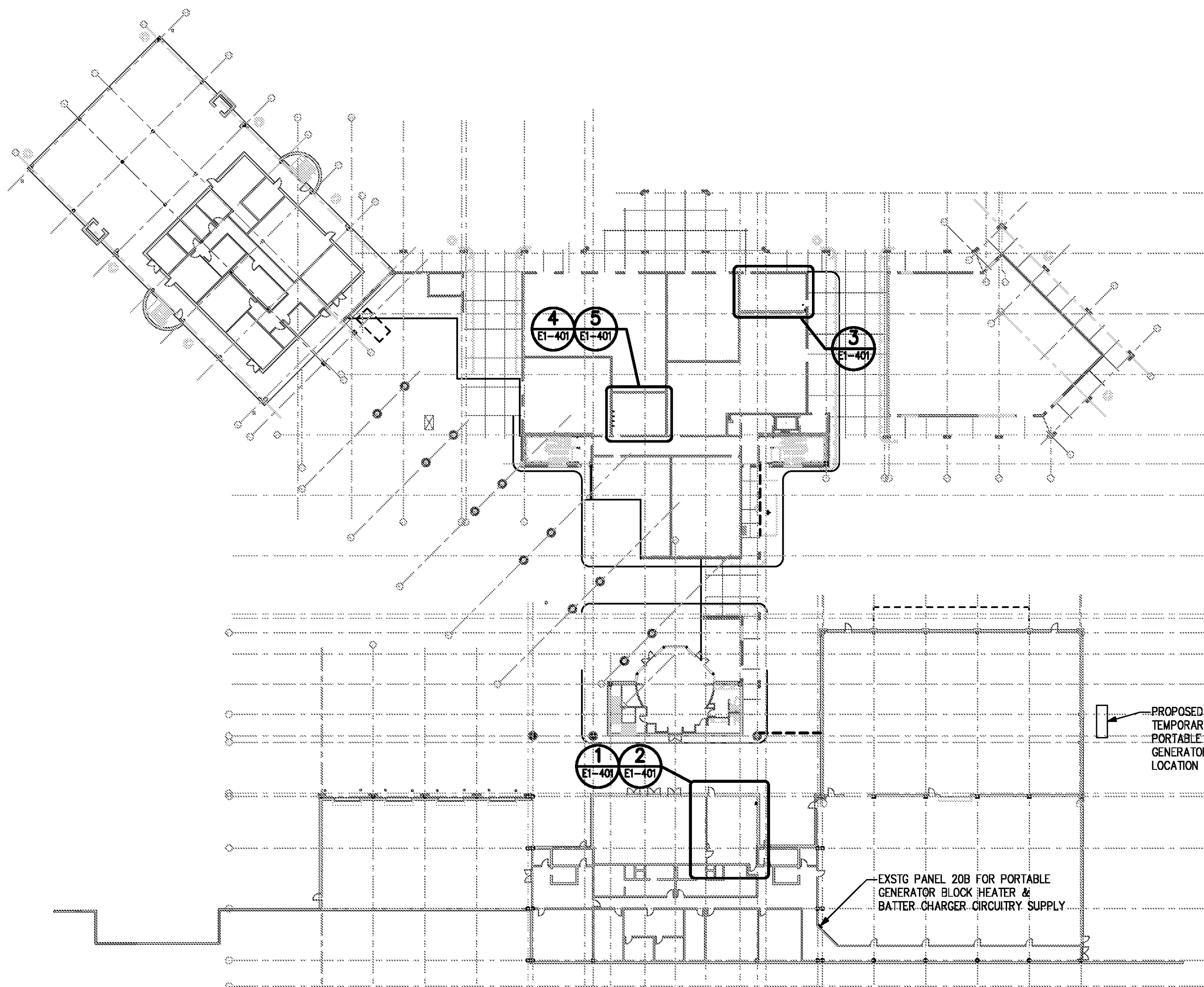
- REMOVE EXISTING METER CENTER GEAR IN MAIN ELEC ROOM.  
 NEW DUKE SERVICE TRANSFORMER – COORDINATE INSTALLATION WITH DUKE.  
 INSTALL NEW MAIN SWITCHBOARD MSB.  
 INSTALL NEW SERVICE FEEDER FROM DUKE TRANSFORMER TO MSB.  
 INSTALL NEW AUTOMATIC TRANSFER SWITCH ATSA.  
 INSTALL NEW AUTOMATIC TRANSFER SWITCH ATSB.  
 INSTALL NEW DISTRIBUTION SWITCHBOARD DSBA.  
 INSTALL NEW DISTRIBUTION SWITCHBOARD DSBG.  
 INSTALL FEEDER MSB → ATSA.  
 INSTALL FEEDER ATSA → DSBA.  
 INSTALL FEEDER MSB → ATSB.  
 INSTALL FEEDER ATSB → DSBG.  
 COORDINATE INSPECTIONS AND DUKE TO ENERGIZE NEW DISTRIBUTION SYSTEM.  
 INSTALL FEEDER DSBA → EXISTING PANEL B2. (\*)  
 REMOVE EXISTING FEEDER FROM PANEL B TO PANEL B2.  
 INSTALL FEEDER DSBA → EXISTING PANEL B3. (\*)  
 REMOVE EXISTING FEEDER FROM PANEL B TO PANEL B3.  
 INSTALL FEEDER DSBA → EXISTING TRANSFORMER SUPPLYING PANEL B4. (\*)  
 REMOVE EXISTING FEEDER FROM PANEL B TO TRANSFORMER SUPPLYING PANEL B4  
 INSTALL FEEDER DSBA → EXISTING PANEL B8. (\*)  
 REMOVE EXISTING FEEDER FROM PANEL B TO PANEL B8.  
 INSTALL FEEDER DSBA → EXISTING PANEL MC. (\*)  
 REMOVE EXISTING FEEDER FROM PANEL B TO PANEL MC.  
 INSTALL FEEDER DSBA → EXISTING TRANSFORMER TTW. (\*)  
 REMOVE EXISTING FEEDER FROM PANEL B TO TRANSFORMER TTW.  
 INSTALL FEEDER DSBA → EXISTING PANEL CP. (\*)  
 REMOVE EXISTING FEEDER FROM SWITCHBOARD MSB-DEMO TO PANEL CP  
 INSTALL FEEDER DSBA → EXISTING MOTOR CONTROL CENTER MCC-1. (\*)  
 REMOVE EXISTING FEEDER FROM SWITCHBOARD MSB-DEMO TO MCC-1.  
 INSTALL TEMPORARY PORTABLE GENERATOR AT MAIN TERMINAL BUILDING.  
 INSTALL TEMPORARY GENERATOR FEEDER TO ATSB. ALONG WITH TEMPORARY FEEDER, INSTALL TEMPORARY START CIRCUIT FROM ATSB, AND INSTALL TEMPORARY BLOCK HEATER AND BATTERY  
 INSTALL FEEDER DSBG → EXISTING PANEL MDP-HR. (\*\*)  
 REMOVE EXISTING FEEDER FROM SWITCHBOARD MSB-DEMO TO PANEL MDP-HR.  
 CHARGER CIRCUITRY.  
 INSTALL FEEDER DSBG → EXISTING PANEL B. (\*)  
 REMOVE EXISTING FEEDER BETWEEN ATSA-EXISTG AND EXISTING PANEL B.  
 REMOVE EXISTING FEEDER FROM SWITCHBOARD MSB-DEMO TO ATSA-EXISTG.  
 EXISTING DUKE SERVICE TRANSFORMER – COORDINATE REMOVAL WITH DUKE.  
 REMOVE EXISTING MAIN SWITCHBOARD MSB-DEMO.  
 REMOVE EXISTING SERVICE FEEDER CONDUCTORS BETWEEN EXISTING DUKE TRANSFORMER & MSB-DEMO.  
 INSTALL NEW 1250 KW GENERATOR.  
 INSTALL NEW DISTRIBUTION SWITCHBOARD DSBG.  
 INSTALL FEEDER 1250 KW GEN → DSBG. UTILIZE EXISTING CONDUITS FOR NEW FEEDER CONDUCTORS.  
 INSTALL FEEDER DSBG → ATSB.  
 INSTALL START CIRCUITRY BETWEEN ATSB AND 1250 KW GEN.  
 DISCONNECT TEMPORARY GENERATOR FEEDER AT ATSB.  
 CONNECT PERMANENT GENERATOR FEEDER AT ATSB.  
 REMOVE EXISTING 750 KW GENERATOR.  
 REMOVE EXISTING FEEDER CONDUCTORS BETWEEN EXISTING GENERATOR & ATSA-EXISTG.  
 REMOVE INTERIOR COMPONENTS FROM ATSA-EXISTG SO THAT THE ENCLOSURE CAN BE UTILIZED AS A PULLBOX.  
 INSTALL NEW 600 KW GENERATOR.  
 INSTALL FEEDER 600 KW GEN → ATSA. UTILIZE EXISTING CONDUITS FOR NEW FEEDER CONDUCTORS. UTILIZE ATSA-EXISTG ENCLOSURE AS A PULLBOX.

(\*) SHUTDOWN NOTES FOR RESUPPLY OF EXISTING EQUIPMENT:

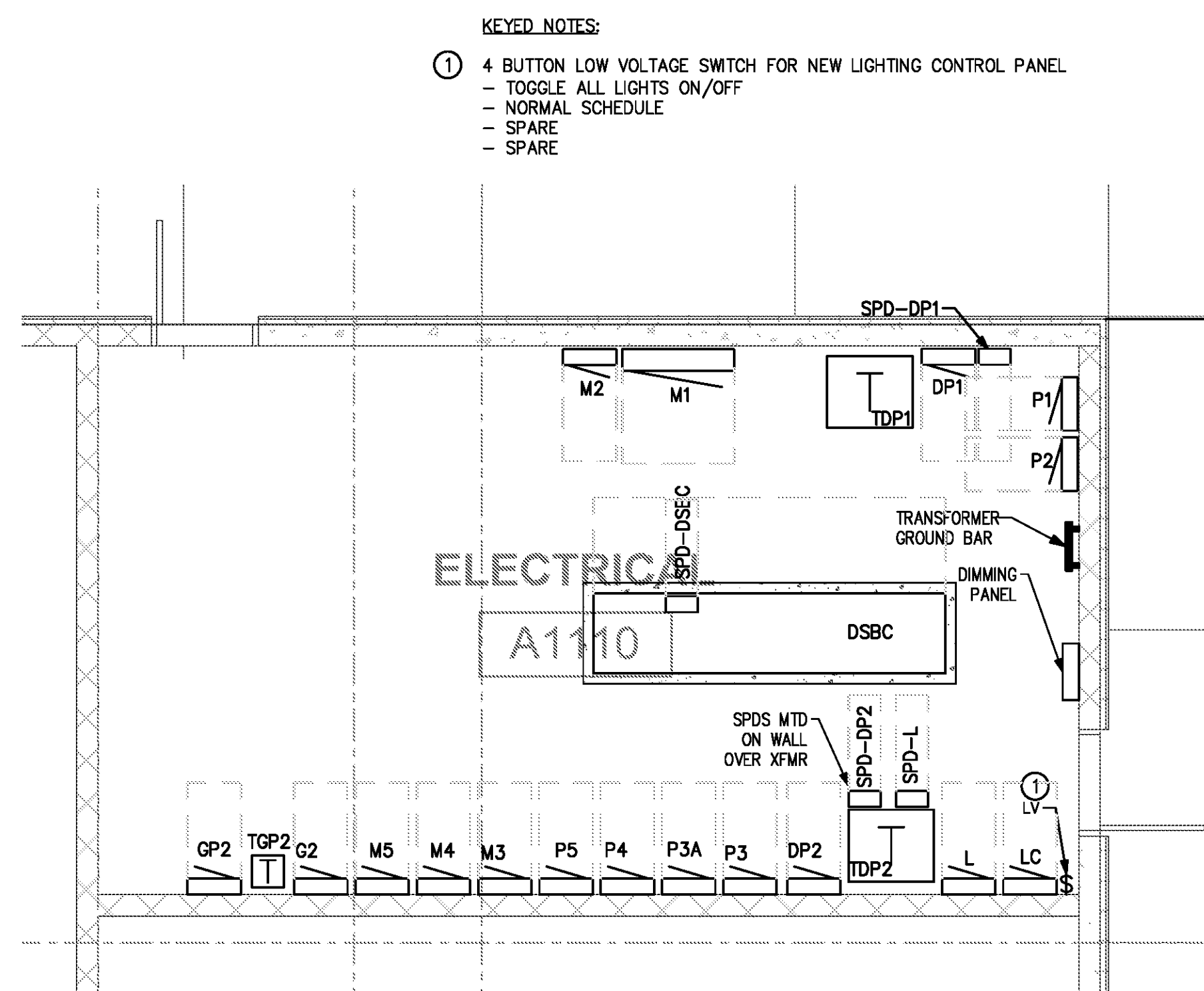
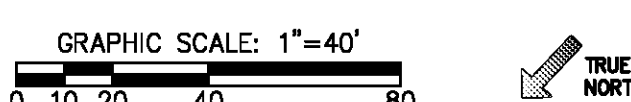
1. COORDINATE SHUTDOWN AND RESUPPLY WITH ILM TO MINIMIZE IMPACT OF SHUTDOWNS.
2. WORK SHALL BE PLANNED WITH PRE-TRANSFER WORK INSTALLED IN ADVANCE TO MINIMIZE THE WORK REQUIRED DURING THE ACTUAL SHUTDOWN.
3. FIELD INVESTIGATION WORK WILL BE REQUIRED TO TRACK DOWN WHAT WILL BE SUPPLIED FROM EACH PIECE OF EQUIPMENT FOR ILM TO ASSES THE IMPACT OF THE SHUTDOWN.
4. MULTIPLE TRANSFERS MAY OCCUR DURING A SINGLE SHUTDOWN AS COORDINATED WITH ILM.

(\*\*) PANEL MDP-HR RESUPPLY

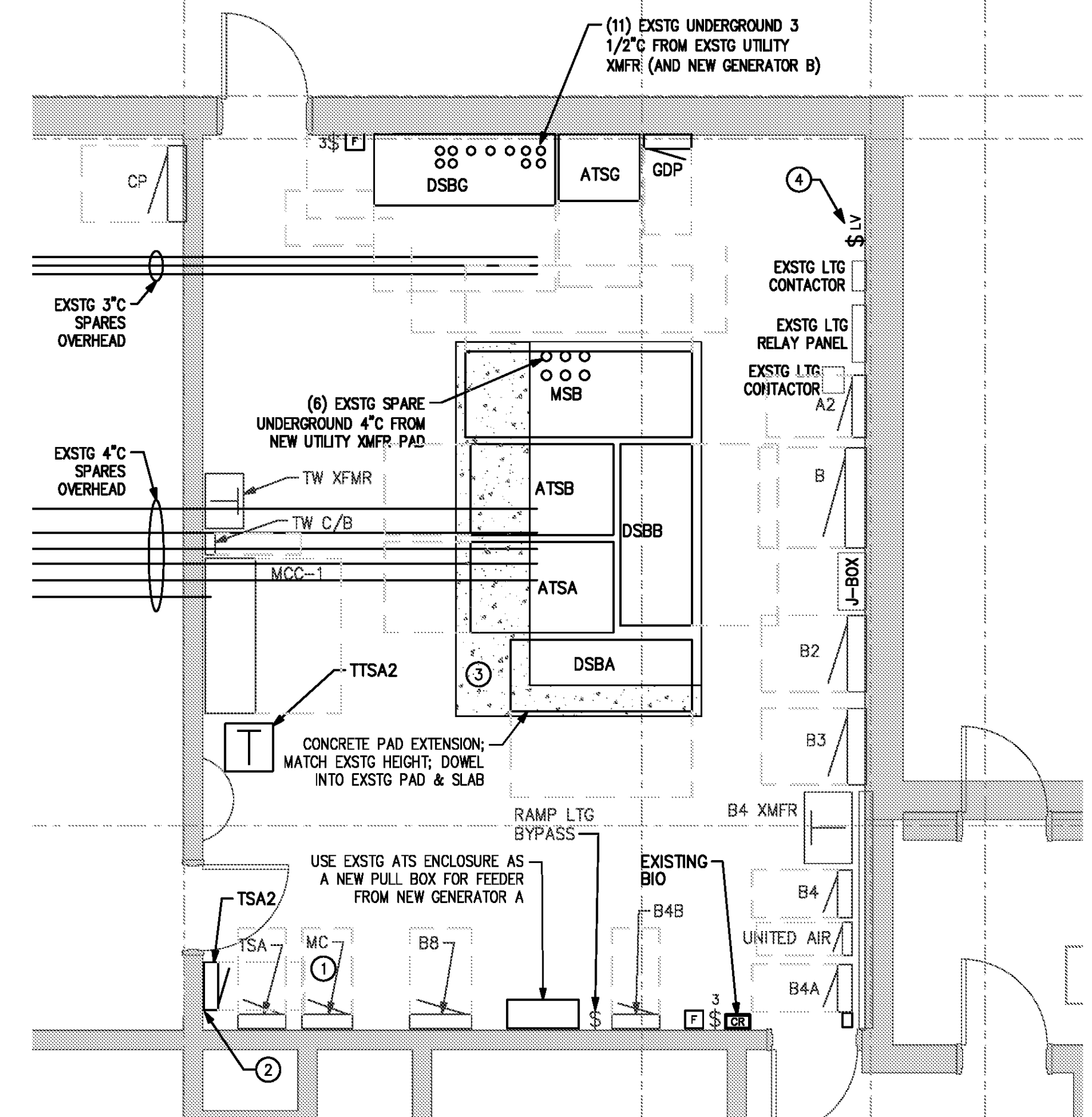
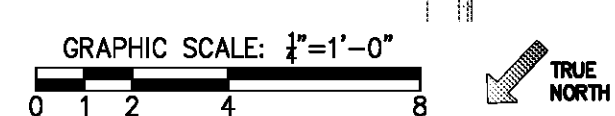
1. PANEL MDP-HR SUPPLIES 'NORMAL' FEEDERS TO TWO AUTOMATIC TRANSFER SWITCHES THAT HAVE GENERATOR FEEDERS FROM AN EXISTING 645 KW GENERATOR AT THE EXISTING HOLD ROOM / GATE AREA.
2. REMOVAL OF THE EXISTING 645 KW GENERATOR WILL BE REQUIRED TO ACCOMMODATE THE NEW BUILDING CONSTRUCTION.
3. DEPENDING ON THE WORK SEQUENCE AND SCHEDULING DEVELOPED BY THE CONTRACTOR, THE EXISTING 645 KW GENERATOR WILL LIKELY NEED TO BE REMOVED PRIOR TO THE NEW PANEL MDP-HR BEING RE-SUPPLIED. IN THAT CASE, A TEMPORARY PORTABLE GENERATOR WILL BE REQUIRED TO RESUPPLY EXISTING AUTOMATIC TRANSFER SWITCHES ATSA AND ATSB.



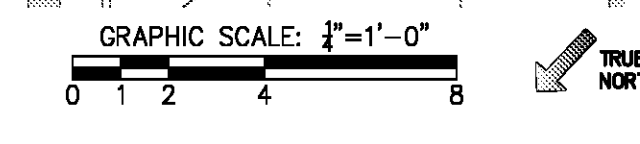
**5 ELECTRICAL PLAN – OVERALL RAMP LEVEL**  
 SCALE: 1" = 40'



**3 ELECTRICAL PLAN – NEW ELECTRICAL ROOM PROPOSED LAYOUT**  
 SCALE: 1/4" = 1'-0"

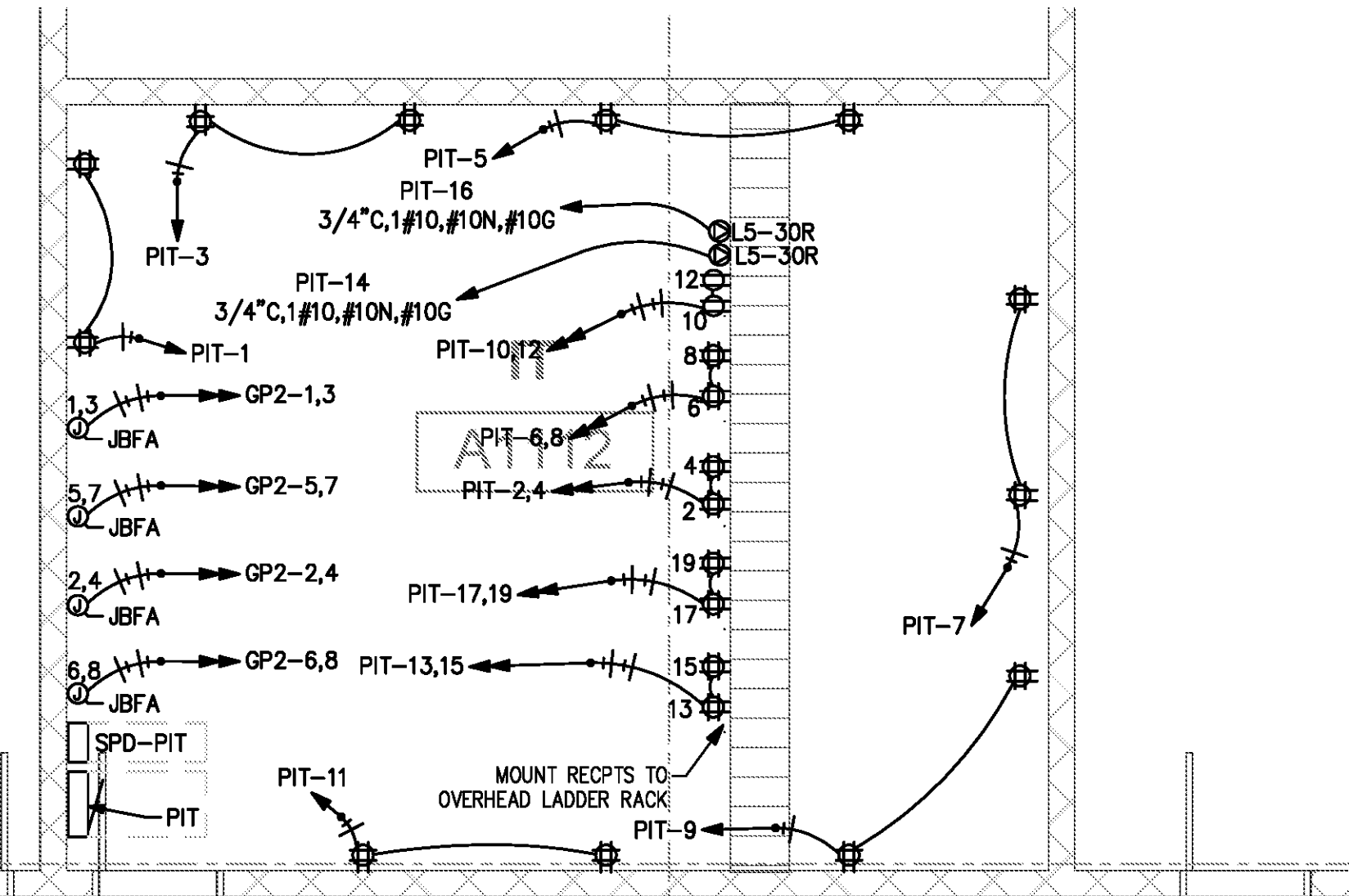


**2 ELECTRICAL PLAN – ELECTRICAL ROOM A5 PROPOSED LAYOUT**  
 SCALE: 1/4" = 1'-0"

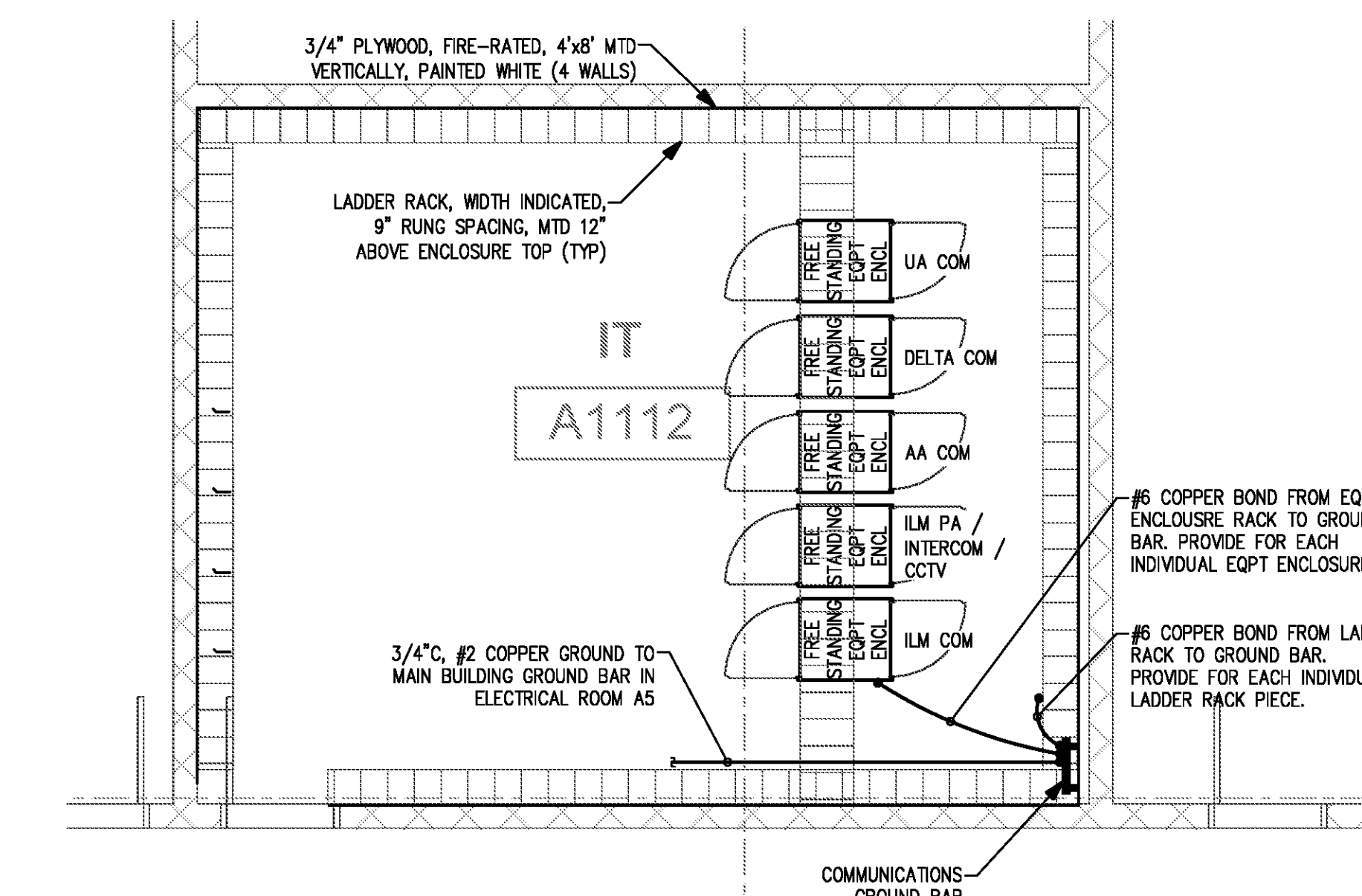
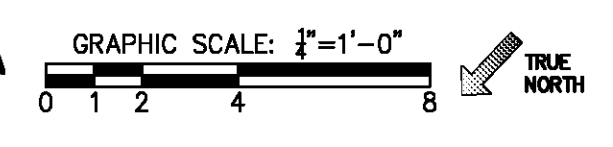


KEYED NOTES NEW WORK:

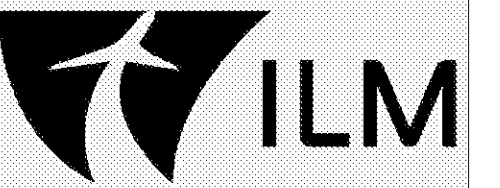
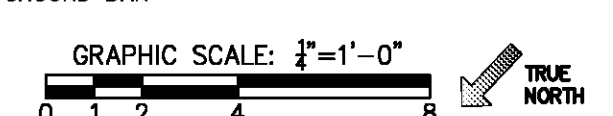
- ① INSTALL 3P/70A BREAKER IN EXISTING PANEL MC. PANEL IS G.E. A SERIES CAT. ADF3424MBX NO. AXSSB4 WITH THED BREAKERS.
- ② RELOCATE LOCKOUT STATION, CHAINS, AND EAR PLUG BOX TO ACCOMMODATE PANEL TSA2 INSTALLATION.
- ③ CONCRETE PAD EXTENSIONS ARE BASED ON SIZE OF EQUIPMENT ANTICIPATED. SPECIFIC MANUFACTURER EQUIPMENT SIZES MAY VARY. EQUIPMENT LOCATIONS AND THE CONCRETE PAD SIZE SHALL BE BASED ON THE ACTUAL EQUIPMENT PROVIDED.
- ④ 4 BUTTON LOW VOLTAGE SWITCH FOR NEW LIGHTING CONTROL PANEL LOCATED IN ELECTRICAL A1110.  
 - TOGGLE ALL LIGHTS ON/OFF  
 - NORMAL SCHEDULE  
 - SPARE  
 - SPARE



**4 ELECTRICAL POWER PLAN – NEW DATA ROOM LAYOUT**  
 SCALE: 1/4" = 1'-0"



**4 ELECTRICAL AUX SYS PLAN – NEW DATA ROOM LAYOUT**  
 SCALE: 1/4" = 1'-0"

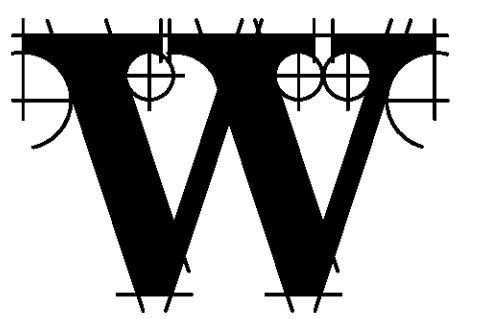


**TERMINAL IMPROVEMENTS CONTRACT 3**

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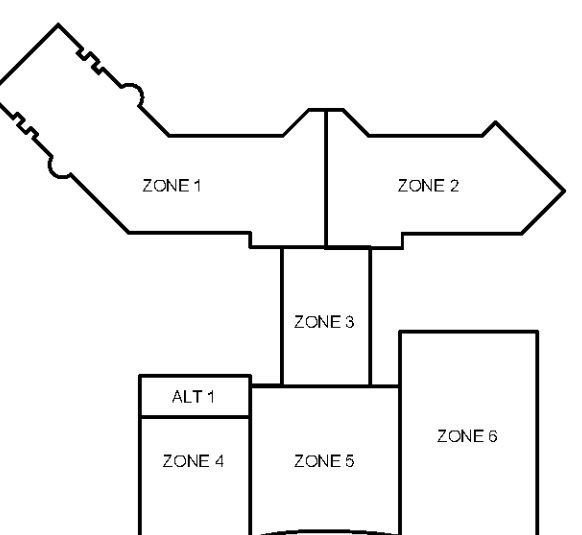
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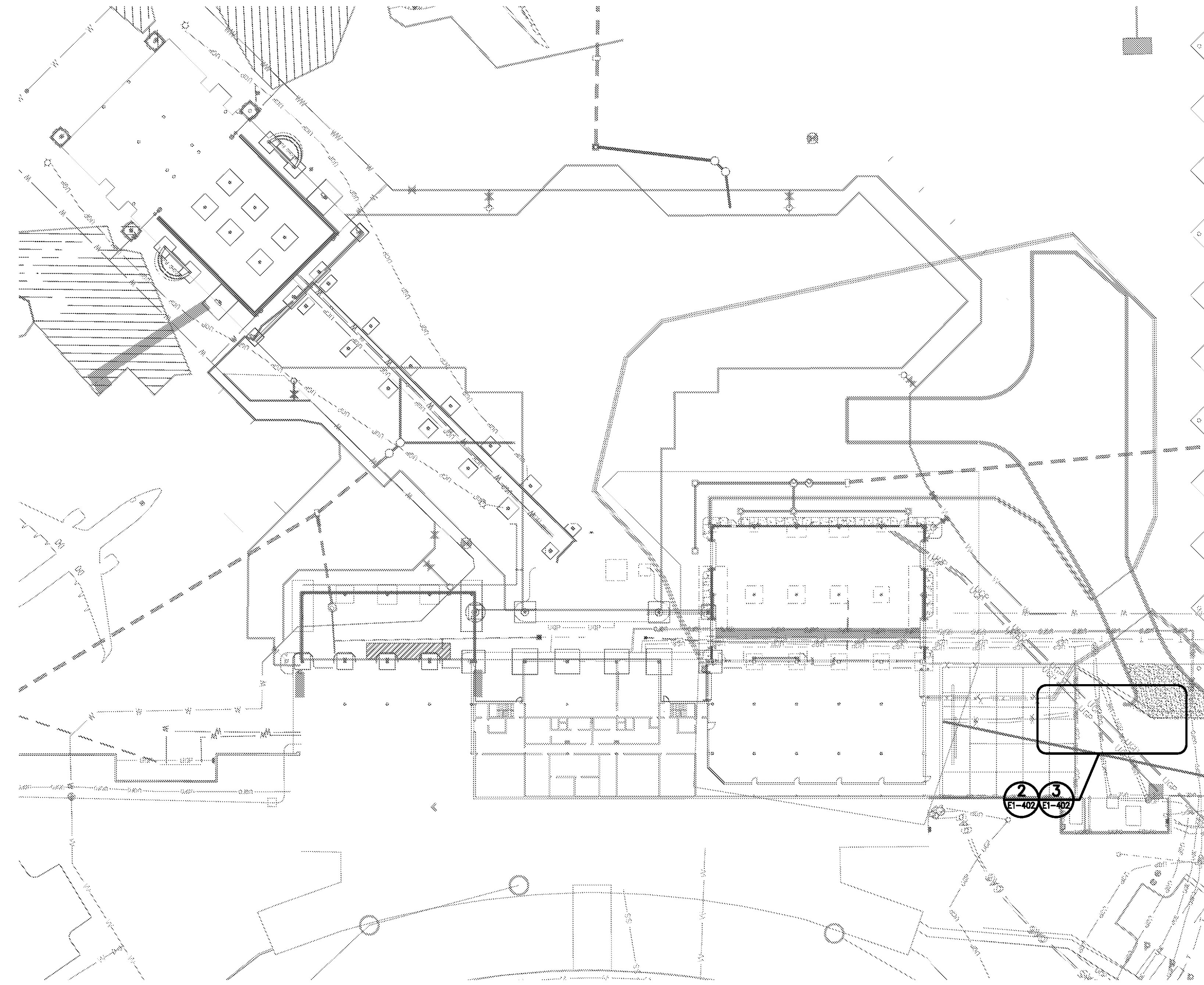
DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE

**SCHEDULE 1 - ELECTRICAL ENLARGED ELECTRICAL ROOM PLANS**  
 SHEET NUMBER

**E1-401**

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:

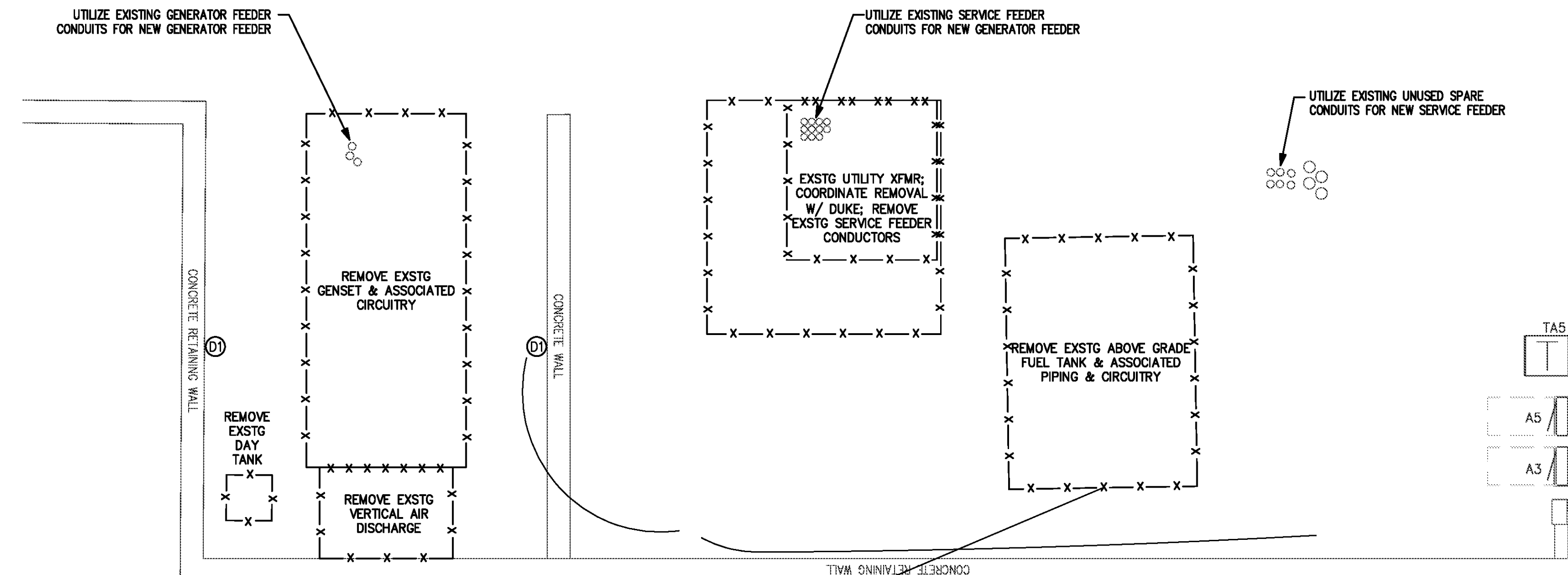
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**1 ELECTRICAL LOCATION REFERENCE PLAN FOR GENERATORS & UTILITY TRANSFORMER**  
SCALE: 1" = 40'

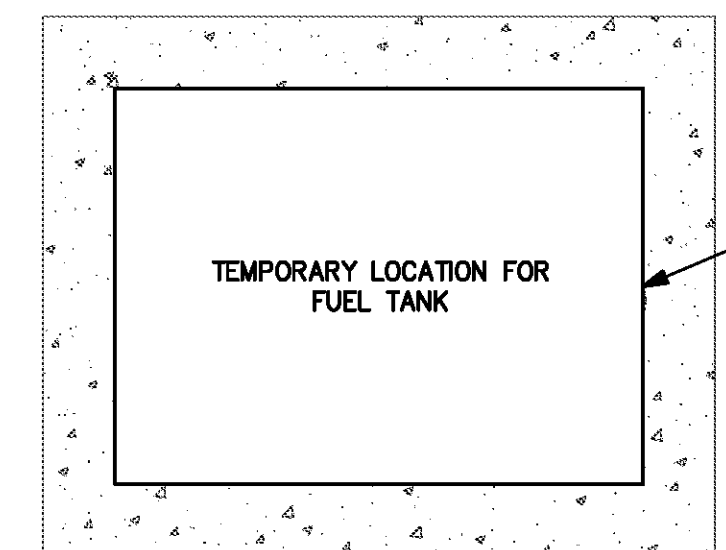
GRAPHIC SCALE: 1" = 40'  
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TRUE NORTH

DEMOLITION KEYED NOTES:  
⑩ REMOVE EXISTING WALLPACK LIGHT FIXTURE. REPLACE WITH NEW.



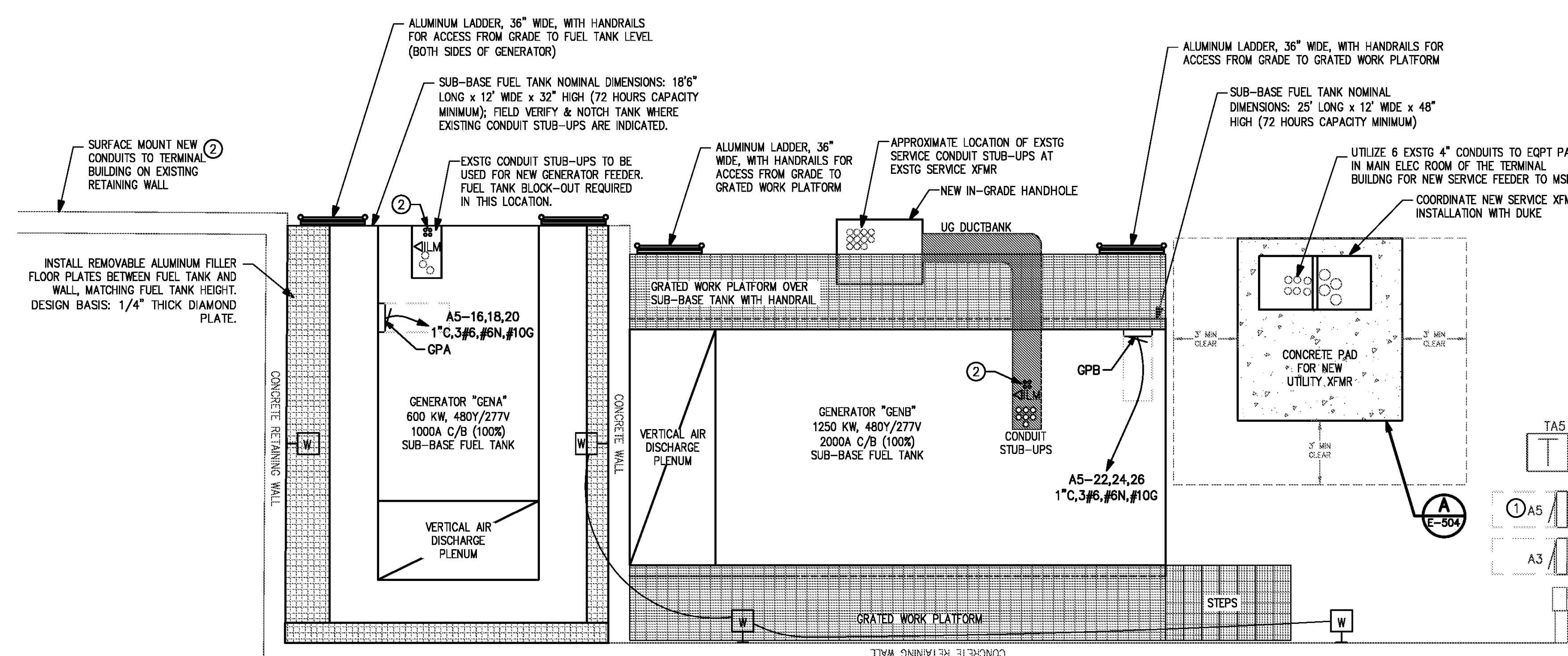
**2 ELECTRICAL GENERATOR & UTILITY TRANSFORMER DEMOLITION PLAN**  
SCALE: 1/4" = 1'-0"

GRAPHIC SCALE: 1/4" = 1'-0"  
0 2 4 6  
TRUE NORTH



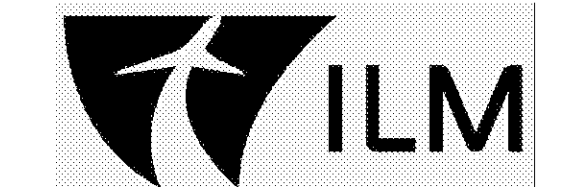
1. RELOCATE EXISTING FUEL TANK TO TEMPORARY LOCATION TO ACCOMMODATE NEW UTILITY TRANSFORMER INSTALLATION.
2. INSTALL TEMPORARY FUEL PIPING FROM TEMPORARY TANK LOCATION TO EXISTING GENERATOR.
3. REWORK / INSTALL CONTROL & MONITORING CIRCUITRY FOR FUEL TANK.
4. PROVIDE LEVEL GRAVEL BASE FOR FUEL TANK.
5. REMOVE TANK, PIPING, AND CIRCUITRY WHEN EXISTG GENERATOR IS TAKEN OUT OF SERVICE.
6. RESTORE LANDSCAPING WHEN FUEL TANK IS REMOVED.

- KEYED NOTES:
1. EXISTING PANEL A5, SIEMENS P1 TYPE, REMOVE (6) 20A/1P CIRCUIT BREAKERS FROM SPACES 16,18,20,22,24,26 AND REPLACE WITH (2) 60A/3P FOR NEW GENERATOR PANELS GPA AND GPB LOCATED AT THE NEW GENERATORS.
    - 3/4" C, #2, #12G TO ATS (START/STOP CIRCUIT)
    - 1" C, (1) CAT 6 TO ATS (MONITOR ATS STATUS)
    - 3/4" C, #12, #12G TO BMS (PRE-ALARM, ALARM, & RUNNING INDICATIONS)
    - 1" C, (2) CAT 6 TO BLDG MGMT ROOM (MONITOR GEN STATUS)
  2. FOUR CONDUITS WITH CIRCUITRY FROM GENERATOR TO TERMINAL BUILDING:
    - 3/4" C, #2, #12G TO ATS (START/STOP CIRCUIT)
    - 1" C, (1) CAT 6 TO ATS (MONITOR ATS STATUS)
    - 3/4" C, #12, #12G TO BMS (PRE-ALARM, ALARM, & RUNNING INDICATIONS)
    - 1" C, (2) CAT 6 TO BLDG MGMT ROOM (MONITOR GEN STATUS)



**3 ELECTRICAL GENERATOR & UTILITY TRANSFORMER PLAN**  
SCALE: 1/4" = 1'-0"

GRAPHIC SCALE: 1/4" = 1'-0"  
0 2 4 6  
TRUE NORTH

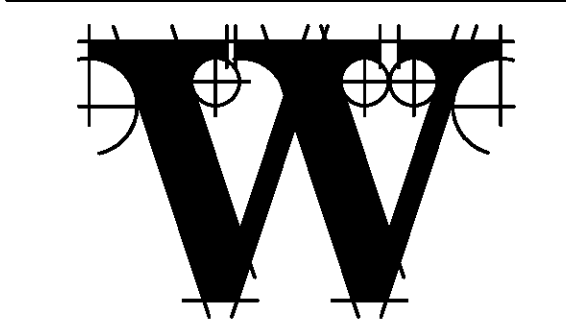
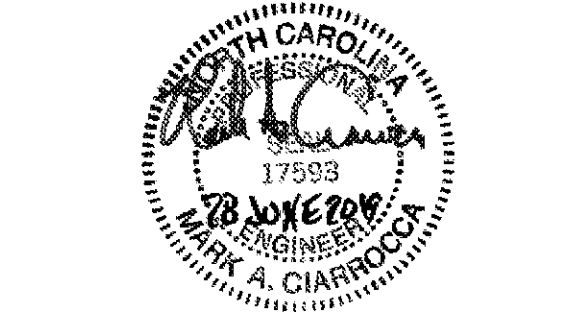


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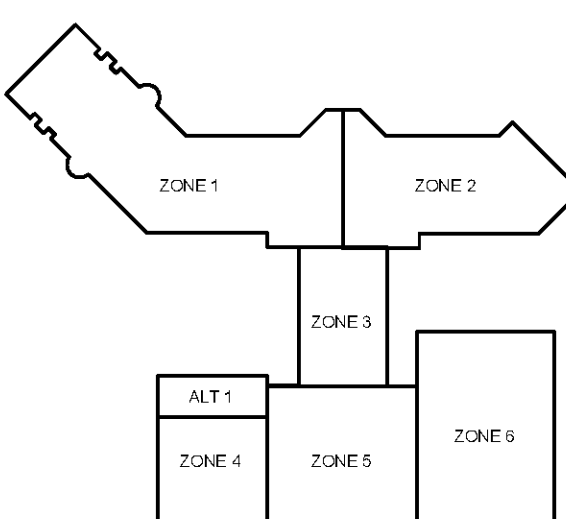
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**KEY PLAN**

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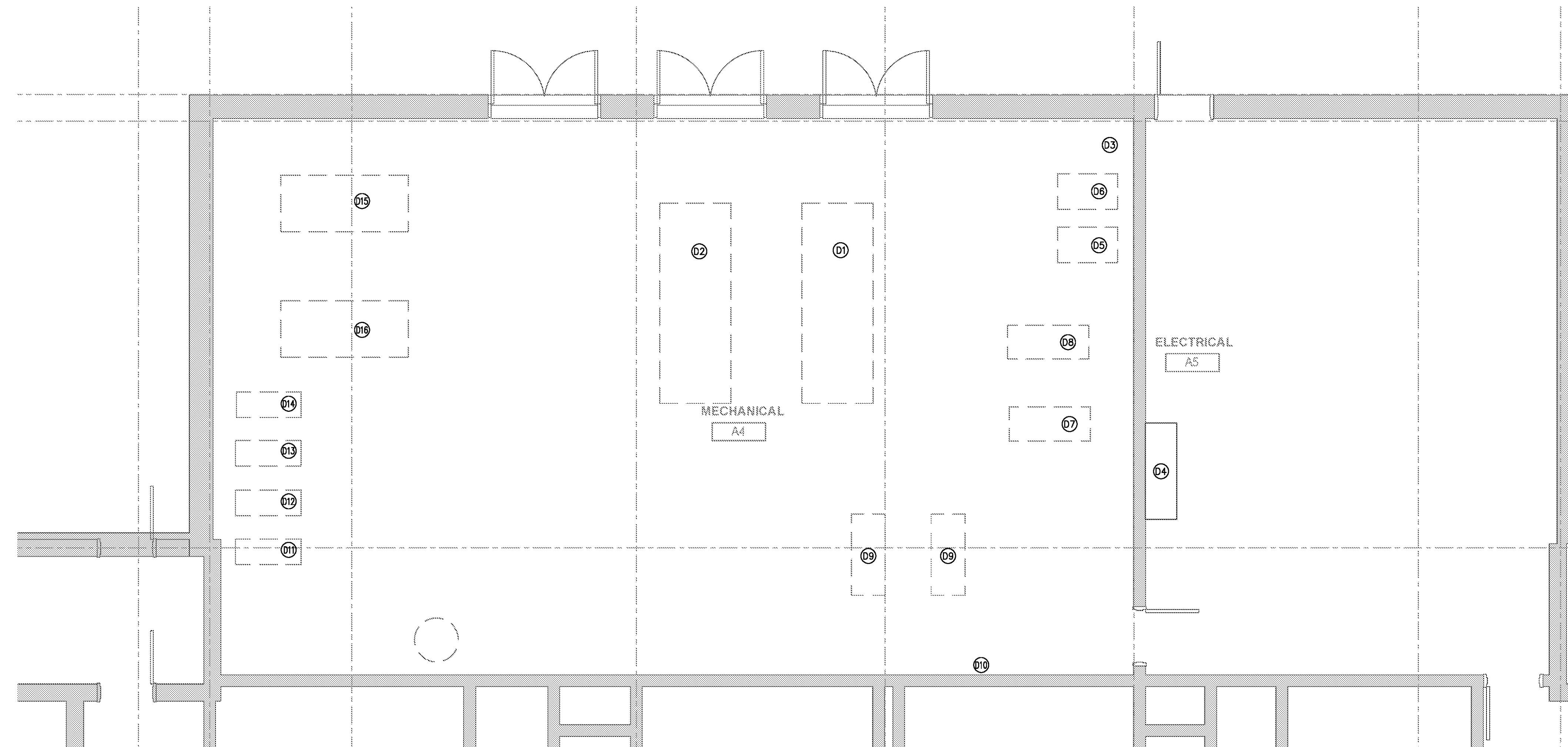
**REVISIONS**

DATE 06/28/19  
PROJECT NUMBER 9202-000  
SHEET TITLE

**SCHEDULE 1 - ELECTRICAL GENERATOR & UTILITY XFMR PLANS**  
SHEET NUMBER

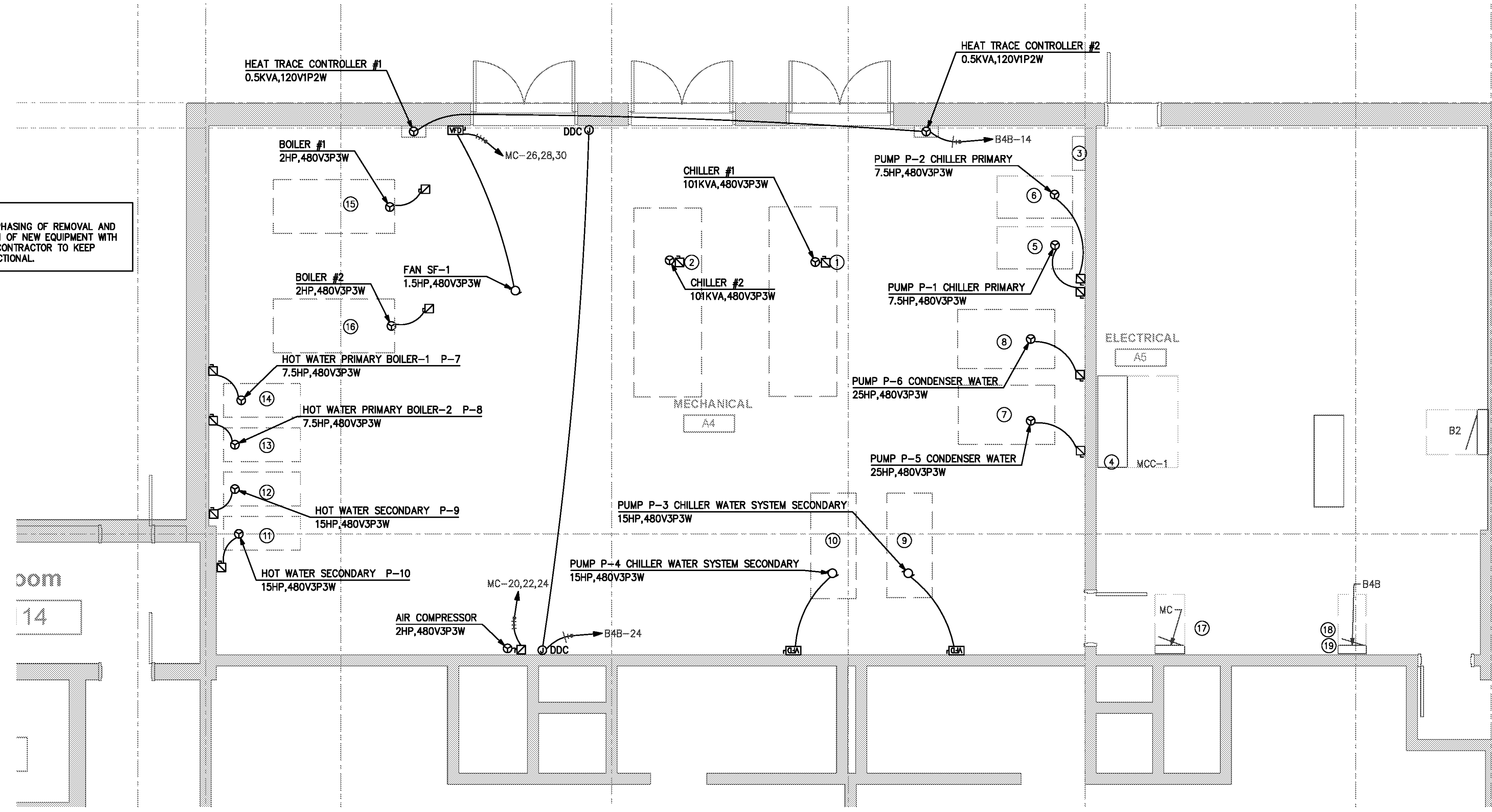
**E1-402**

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
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 • COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.



**1 ELECTRICAL ENLARGED DEMOLITION PLAN – MECHANICAL A4**  
 SCALE: 1/4" = 1'-0" GRAPHIC SCALE: 1" = 1'-0" TRUE NORTH

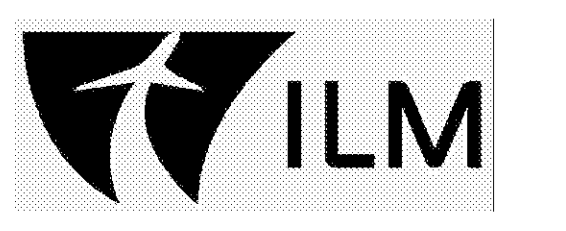
NOTE:  
 COORDINATE PHASING OF REMOVAL AND RECONNECTION OF NEW EQUIPMENT WITH MECHANICAL CONTRACTOR TO KEEP BUILDING FUNCTIONAL.



**2 ELECTRICAL ENLARGED NEW WORK PLAN – MECHANICAL A4**  
 SCALE: 1/2" = 1'-0" GRAPHIC SCALE: 1" = 1'-0" TRUE NORTH

- KEYED NOTES (DEMOLITION WORK):**
- 01 EXISTING CHILLER #1 FEEDER TO BE DISCONNECTED FROM THE CHILLER TO ALLOW THE CHILLER TO BE REMOVED. EXISTING FEEDER TO BE RECONNECTED IN NEW WORK PHASE.
  - 02 EXISTING CHILLER #2 FEEDER TO BE DISCONNECTED FROM THE CHILLER TO ALLOW THE CHILLER TO BE REMOVED. EXISTING FEEDER TO BE RECONNECTED IN NEW WORK PHASE.
  - 03 EXISTING PANEL CP TO REMAIN. CHILLER FEEDERS ORIGINATE AT THIS LOCATION.
  - 04 EXISTING MOTOR CONTROL CENTER (MCC-1).
  - 05 REMOVE EXISTING FEEDER TO THE EXISTING CHILLER PUMP #1. CIRCUIT ORIGINATES AT MCC-1 (CIRCUIT A1).
  - 06 REMOVE EXISTING FEEDER TO THE EXISTING CHILLER PUMP #2. CIRCUIT ORIGINATES AT MCC-1 (CIRCUIT A2).
  - 07 REMOVE EXISTING FEEDER TO THE EXISTING CHILLER PUMP #1. CIRCUIT ORIGINATES AT MCC-1 (CIRCUIT B1).
  - 08 REMOVE EXISTING FEEDER TO THE EXISTING CHILLER PUMP #1. CIRCUIT ORIGINATES AT MCC-1 (CIRCUIT B2).
  - 09 REMOVE EXISTING FEEDERS TO THE EXISTING CHILLER WATER SYSTEM. CIRCUIT ORIGINATES AT MCC-1 (CIRCUIT C2).
  - 10 REMOVE EXISTING VFD FOR THE CHILLED WATER SYSTEM PUMPS. CIRCUIT ORIGINATES AT MCC-1 (CIRCUIT C2).
  - 11 REMOVE EXISTING FEEDERS TO THE HOT WATER WATER SYSTEM PUMP #1. CIRCUIT ORIGINATES AT B2 (CIRCUIT 17).
  - 12 REMOVE EXISTING FEEDERS TO THE HOT WATER WATER SYSTEM PUMP #2. CIRCUIT ORIGINATES AT B2 (CIRCUIT 19).
  - 13 REMOVE EXISTING FEEDERS TO THE BOILER PUMP #1. CIRCUIT ORIGINATES AT PANEL B2 (CIRCUIT 13).
  - 14 REMOVE EXISTING FEEDERS TO THE BOILER PUMP #2. CIRCUIT ORIGINATES AT PANEL B2 (CIRCUIT 15).
  - 15 DISCONNECT EXISTING FEEDER TO EXISTING BOILER #1. SHALL BE RECONNECT TO NEW BOILER IN NEW WORK PHASE. CIRCUIT ORIGINATES AT PANEL B4 (CIRCUIT #32,34,36).
  - 16 DISCONNECT EXISTING FEEDER TO EXISTING BOILER #2. SHALL BE RECONNECT TO NEW BOILER IN NEW WORK PHASE. CIRCUIT ORIGINATES AT PANEL B4 (CIRCUIT #38,40,42).

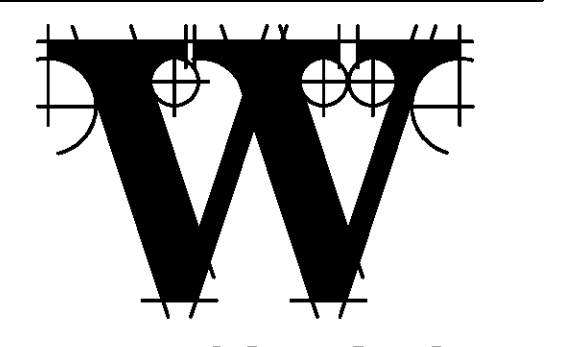
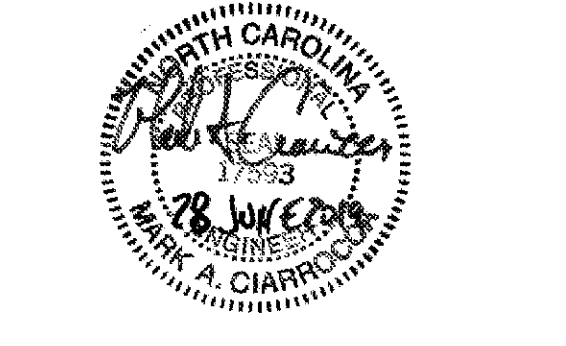
- KEYED NOTES (NEW WORK):**
- 01 NEW CHILLER #1 TO BE RECONNECTED TO THE EXISTING FEEDER. LOCATED IN PANEL CP (CIRCUIT #5-250A C/B).
  - 02 NEW CHILLER #2 TO BE RECONNECTED TO THE EXISTING FEEDER. LOCATED IN PANEL CP (CIRCUIT #6-250A C/B).
  - 03 EXISTING PANEL CP.
  - 04 EXISTING MOTOR CONTROL CENTER (MCC-1) 480V, 3P, 3W, 400A. SQ-D (MODEL 5).
  - 05 CHILLER PUMP P-1. REMOVE EXISTING 3P/20A C/B & MOTOR OVERLOADS IN MCC-1 (CIRCUIT A1). PROVIDE 3P/30A C/B & NEW OVERLOADS SIZED FOR PUMP SUPPLIED. STARTER TO REMAIN. NEW 3P, 3W, 400A, #10G.
  - 06 CHILLER PUMP P-2. REMOVE EXISTING 3P/20A C/B & MOTOR OVERLOADS IN MCC-1 (CIRCUIT A2). PROVIDE 3P/30A C/B & NEW OVERLOADS SIZED FOR PUMP SUPPLIED. STARTER TO REMAIN. NEW 3P, 3W, 400A, #10G.
  - 07 CONDENSED WATER P-5. EXISTING 3P/60A C/B TO REMAIN. CIRCUIT ORIGINATES IN EXISTING MCC-1 (CIRCUIT B1). REMOVE EXISTING OVERLOADS & PROVIDE NEW MOTOR OVERLOADS FOR THE NEW PUMP SUPPLIED. NEW 3P, 3W, 60A, #10G.
  - 08 CONDENSED WATER P-6. EXISTING 3P/60A C/B TO REMAIN. CIRCUIT ORIGINATES IN EXISTING MCC-1 (CIRCUIT B2). REMOVE EXISTING OVERLOADS & PROVIDE NEW MOTOR OVERLOADS FOR THE NEW PUMP SUPPLIED. NEW 3P, 3W, 60A, #10G.
  - 09 CHILLER WATER SYSTEM SECONDARY PUMP P-3. PROVIDE NEW 3P/40A C/B IN MCC-1 (A3 EMPTY SPACE). PROVIDE 3P, 3W, #10G.
  - 10 CHILLER WATER SYSTEM SECONDARY PUMP P-4. PROVIDE NEW 3P/40A C/B IN MCC-1 (A4 EMPTY SPACE). PROVIDE 3P, 3W, #10G.
  - 11 HOT WATER SECONDARY PUMP P-10. REMOVE EXISTING C/B 3P/20A IN EXISTING PANEL B2, CIRCUIT #17 (SEE #2/E1-401 FOR LOCATION) & PROVIDE NEW 3P/40A C/B IN ITS PLACE FOR NEW PUMP INDICATED. PROVIDE 3P, 3W, #10G. EXISTING PANEL B2 IS MANUFACTURED BY SQ-D (TYPE HCM).
  - 12 HOT WATER SECONDARY SECONDARY PUMP P-9. REMOVE EXISTING C/B 3P/20A IN EXISTING PANEL B2, CIRCUIT #17 (SEE #2/E1-401 FOR LOCATION) & PROVIDE NEW 3P/40A C/B IN ITS PLACE FOR NEW PUMP INDICATED. PROVIDE 3P, 3W, #10G. EXISTING PANEL B2 IS MANUFACTURED BY SQ-D (TYPE HCM).
  - 13 HOT WATER PRIMARY PUMP P-8. REMOVE EXISTING C/B 3P/20A IN EXISTING PANEL B2, CIRCUIT #15 (SEE #2/E1-401 FOR LOCATION) & PROVIDE NEW 3P/30A C/B IN ITS PLACE FOR NEW PUMP INDICATED. PROVIDE 3P, 3W, #10G. EXISTING PANEL B2 IS MANUFACTURED BY SQ-D (TYPE HCM).
  - 14 HOT WATER PRIMARY PUMP P-7. REMOVE EXISTING C/B 3P/20A IN EXISTING PANEL B2, CIRCUIT #13 (SEE #2/E1-401 FOR LOCATION) & PROVIDE NEW 3P/30A C/B IN ITS PLACE FOR NEW PUMP INDICATED. PROVIDE 3P, 3W, #10G. EXISTING PANEL B2 IS MANUFACTURED BY SQ-D (TYPE HCM).
  - 15 RE-CONNECT EXISTING FEEDER TO NEW BOILER #1. CIRCUIT ORIGINATES AT PANEL B4 (CIRCUIT #32,34,36-3P/20A C/B).
  - 16 RE-CONNECT EXISTING FEEDER TO NEW BOILER #2. CIRCUIT ORIGINATES AT PANEL B4 (CIRCUIT #38,40,42-3P/20A C/B).
  - 17 EXISTING PANEL MC IS MANUFACTURED BY GE (A SERIES). PROVIDE (2) 3P/15A CIRCUIT BREAKER IN SPACES #20,22,24 FOR NEW AIR COMPRESSOR & SPACES #26,28,30 FAN F-33.
  - 18 CONNECT NEW DDC SYSTEM POWER TO SPARE CIRCUIT BREAKER (1P/20A) IN EXISTING PANEL B4B (CIRCUIT # 24).
  - 19 CONNECT NEW HEAT TRACE SYSTEM POWER. REMOVE EXISTING SPARE CIRCUIT BREAKER (1P/20A) IN EXISTING PANEL B4B (CIRCUIT # 14). PROVIDE (1) 1P/15A (GFP) CIRCUIT BREAKER IN SAME SPACE. PANEL IS MANUFACTURED BY SQ-D (NOOD TYPE).



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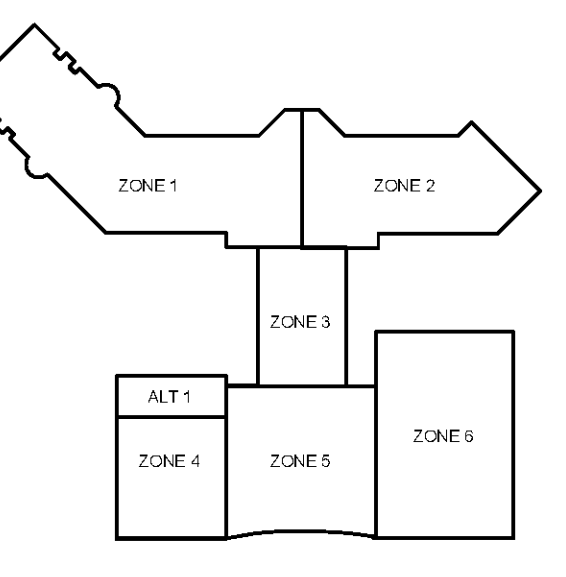
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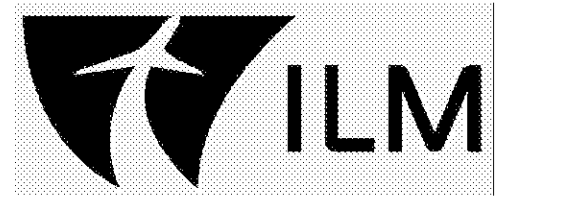
DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE

**SCHEDULE 1 - ELECTRICAL ENLARGED PLANS - MECHANICAL A4**

SHEET NUMBER  
**E1-403**

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
 • SEE ARCHITECTURAL PLANS A-01\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.  
 • SEE BAGGAGE HANDLING SYSTEM PLANS B-\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.  
 • COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.

KEYED NOTES:  
 ① EXISTING TRANSFER SWITCH TO BE CONFIGURED TO NOT OPERATE AUTOMATICALLY. PANEL MDP-HR IS NOW BACKED UP BY GENERATOR.

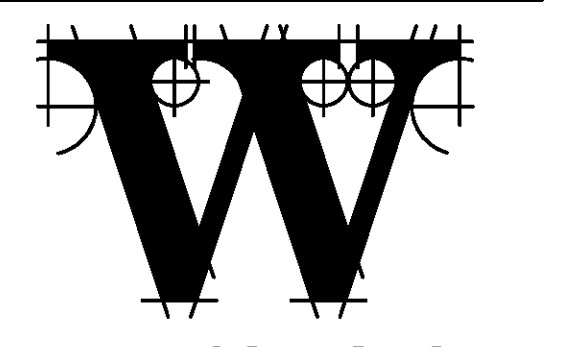
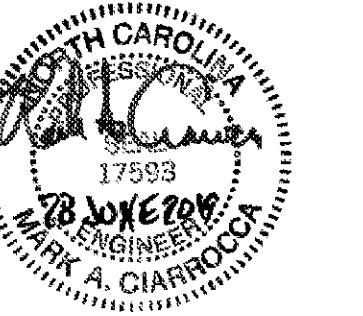


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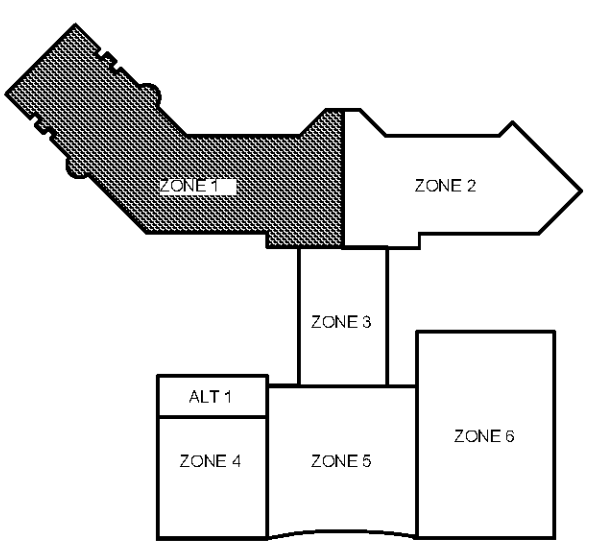
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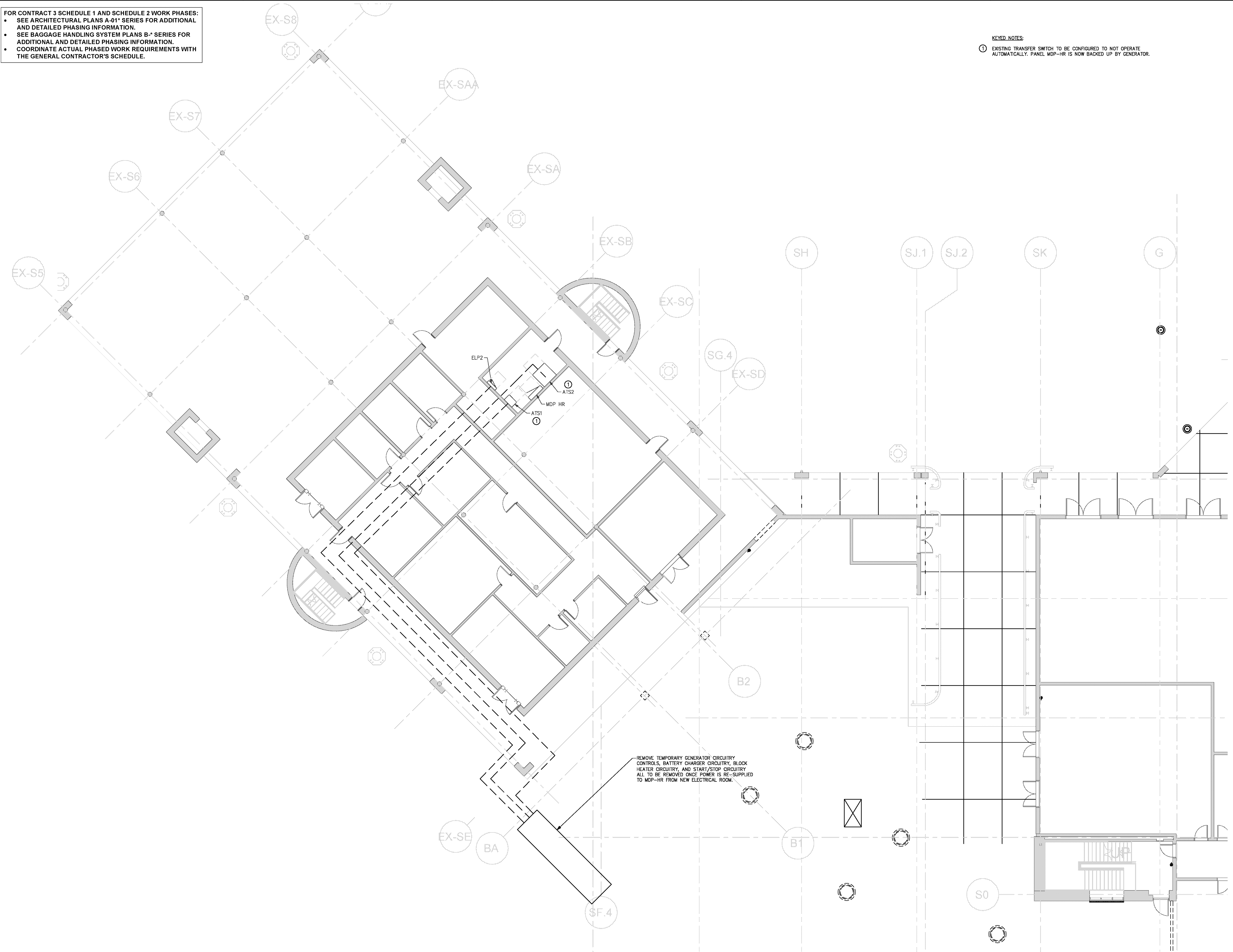
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DATE 06/28/19  
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 SHEET TITLE

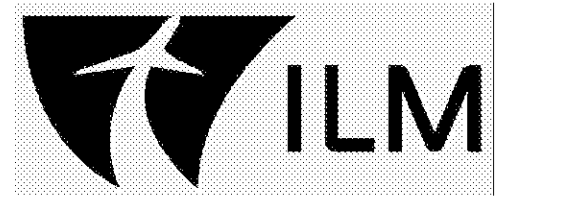
**SCHEDULE 2 - ELECTRICAL RAMP LEVEL DEMOLITION PLAN ZONE 1**  
 SHEET NUMBER

**ED2-111**



FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
 • SEE ARCHITECTURAL PLANS A-01\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.  
 • SEE BAGGAGE HANDLING SYSTEM PLANS B-\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.  
 • COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.

KEYED NOTES:  
 ① REMOVE LIGHT FIXTURE AND CIRCUITRY.

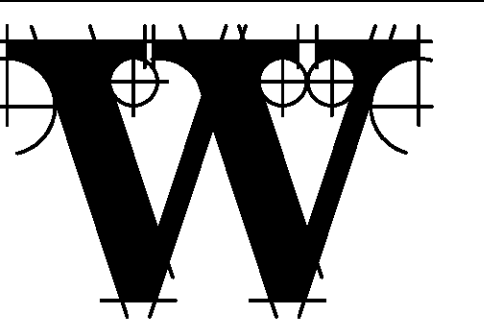
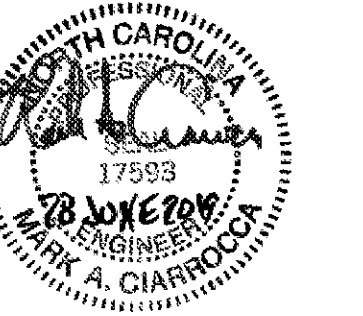


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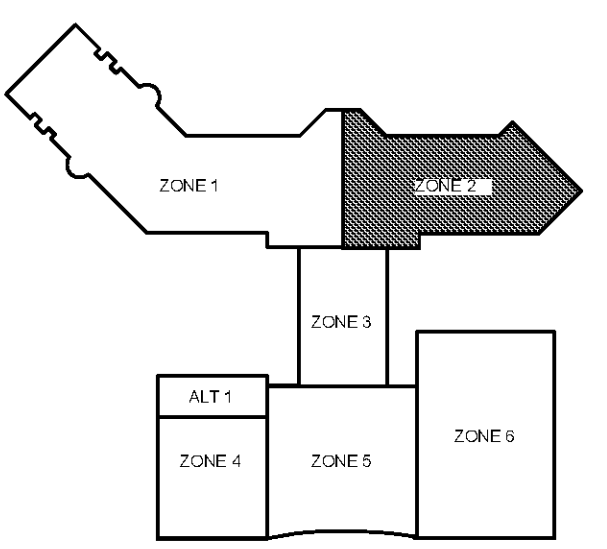
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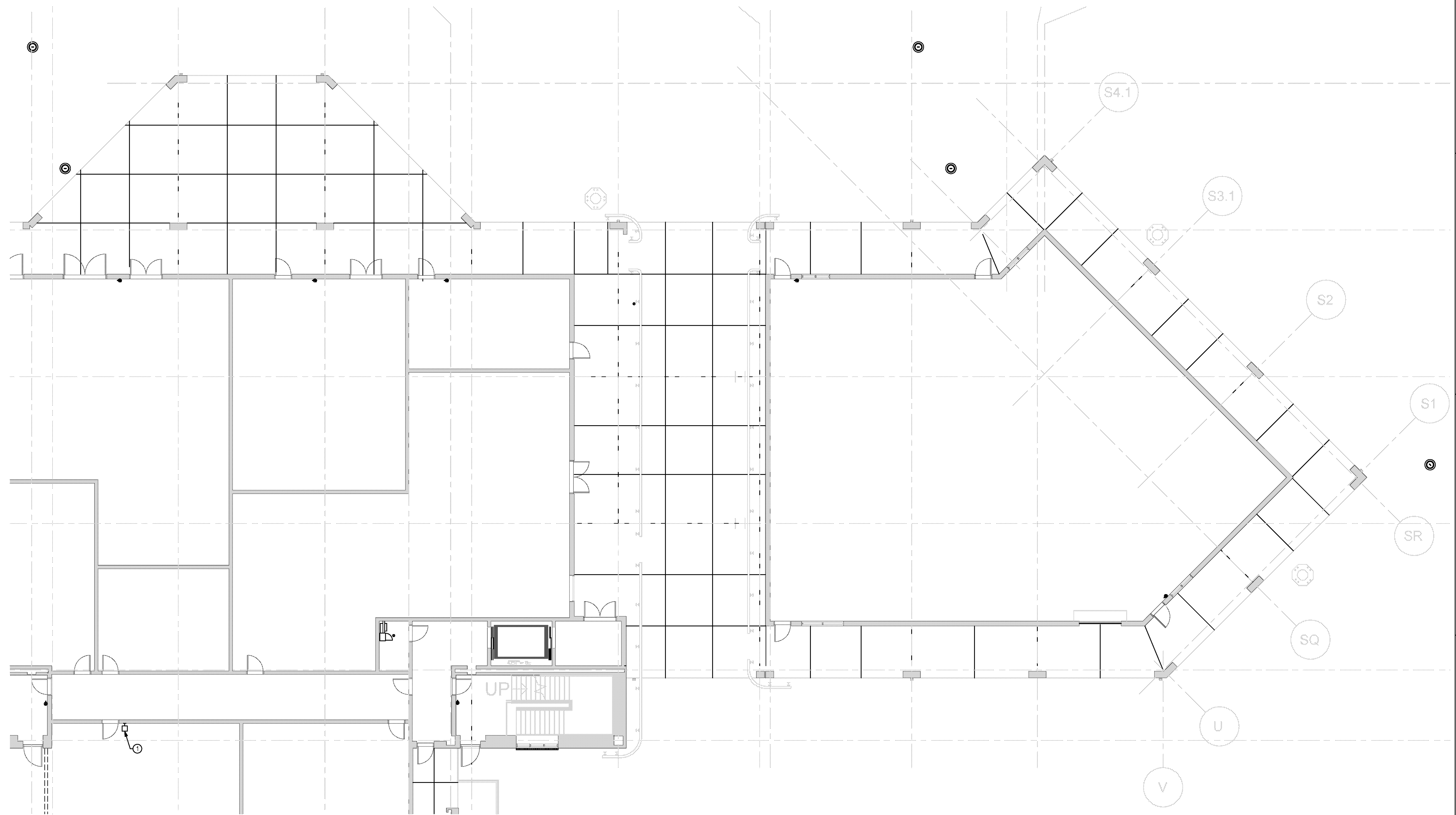
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 SHEET TITLE

**SCHEDULE 2 - ELECTRICAL RAMP LEVEL DEMOLITION PLAN ZONE 2**  
 SHEET NUMBER

**ED2-112**

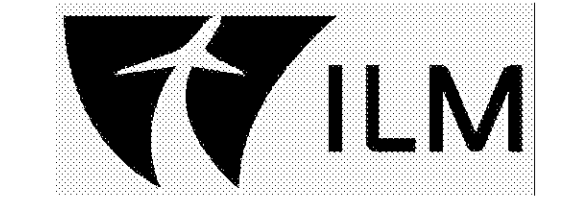


① SCHEDULE 2 - ELECTRICAL RAMP LEVEL - DEMOLITION PLAN - ZONE 2  
 SCALE: 1/8" = 1'-0"  
 GRAPHIC SCALE: 1" = 1'-0"  
 0 2 4 8 16  
 TRUE NORTH

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:

- SEE ARCHITECTURAL PLANS A-01\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.
- SEE BAGGAGE HANDLING SYSTEM PLANS B-\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.
- COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.

KEYED NOTES:  
 ① REMOVE EXTERIOR EGRESS LIGHT AND ASSOCIATED CIRCUITRY.

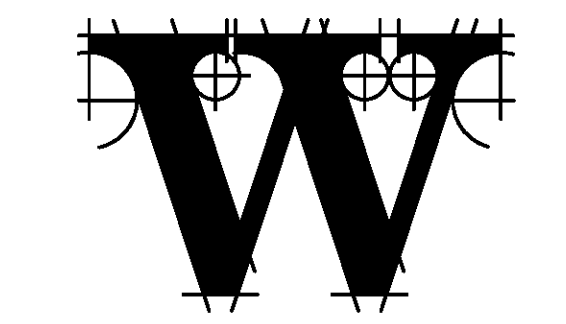
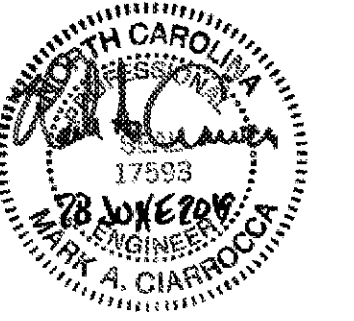


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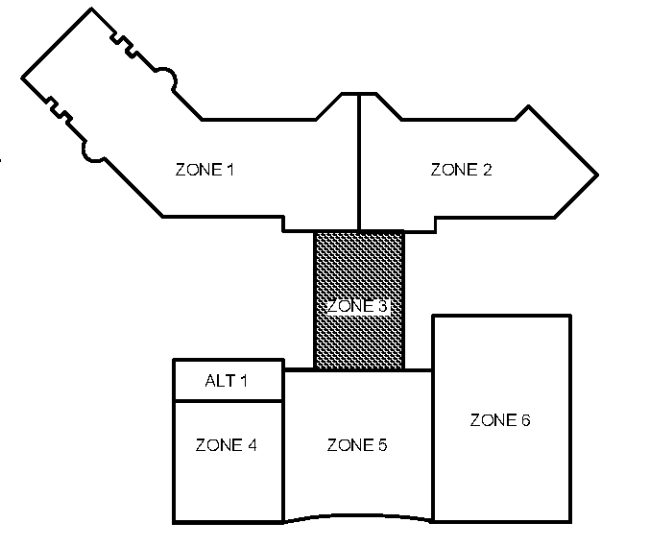
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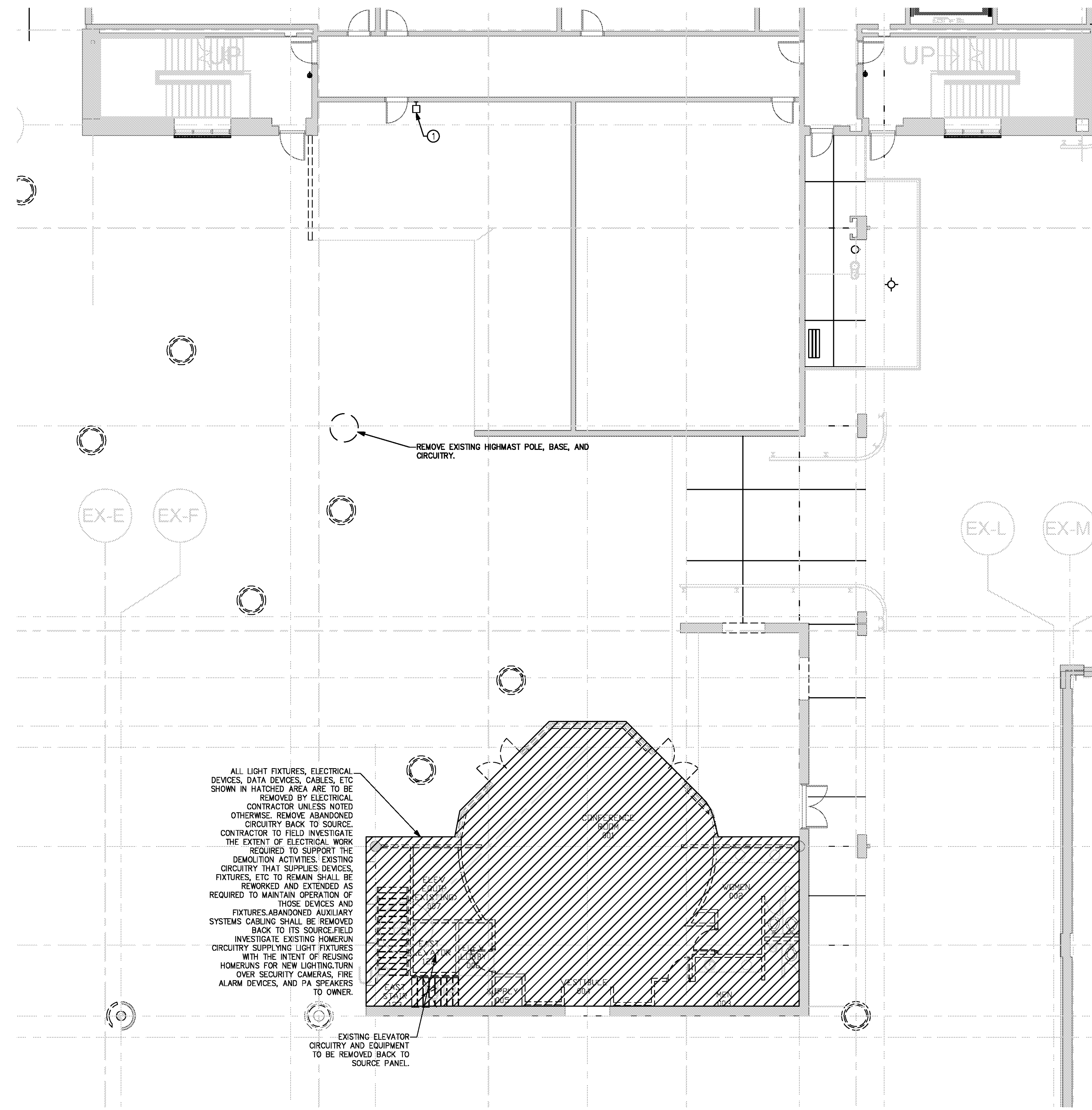
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**SCHEDULE 2 - ELECTRICAL RAMP LEVEL DEMOLITION PLAN ZONE 3**  
 SHEET NUMBER

**ED2-113**



① SCHEDULE 2 - ELECTRICAL RAMP LEVEL - DEMOLITION PLAN - ZONE 3  
 SCALE: 1/8" = 1'-0"

GRAPHIC SCALE: 1/8" = 1'-0"  
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**FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:**

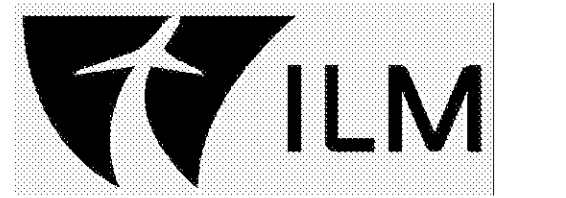
- SEE ARCHITECTURAL PLANS A-01\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.
- SEE BAGGAGE HANDLING SYSTEM PLANS B-\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.
- COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.

**NOTES:**

1. ALL LIGHT FIXTURES, SWITCHES, ELECTRICAL DEVICES, FIRE ALARM DEVICES, SECURITY DEVICES, ETC SHOWN ARE TO BE REMOVED.
2. THE ELECTRICAL CONTRACTOR SHALL DE-ENERGIZE AND REMOVE EXISTING DEVICES, FIXTURES, CIRCUITRY, ETC. TO ACCOMMODATE THE DEMOLITION ACTIVITIES.
3. ABANDON CIRCUITRY SHALL BE REMOVED BACK TO ITS SOURCE PANEL.

**KEYED NOTES:**

- ① REMOVE EXISTING LIGHT FIXTURES IN SPACE. CIRCUITRY TO REMAIN AND BE REUSED FOR NEW LIGHTING.
- ② EXISTING BAGGAGE HANDLING EQUIPMENT AND CIRCUITRY SHALL BE REMOVED BACK TO SOURCE PANEL.
- ③ REMOVE EXISTING JOHNSON CONTROLS
- ④ REMOVE EXISTING HVAC CONTROLS
- ⑤ REMOVE EXISTING SUPPLY FAN
- ⑥ EXISTING HEATERS (CEILING MOUNTED TO BE RELOCATED BY MECHANICAL CONTRACTOR). ELECTRICAL TO REMOVE & SECURE CIRCUITRY. THIS CIRCUITRY IS TO BE EXTENDED TO NEW LOCATION OF THE HEATERS (SEE SHEET #E2-114).
- ⑦ REMOVE DOOR OPERATOR, ASSOCIATED CIRCUITRY, DOOR POWER AND ASSOCIATED CIRCUITRY.
- ⑧ REMOVE LIGHTNING DOWN CONDUCTOR AND CONDUIT.
- ⑨ LOCATION OF SLAB CUTOUT FOR NEW BAGGAGE HANDLING EQUIPMENT. CONTRACTOR TO FIELD INVESTIGATE THE EXTENT OF ELECTRICAL WORK REQUIRED TO SUPPORT THE DEMOLITION ACTIVITIES. ELECTRICAL CONTRACTOR SHALL REWORK AND EXTEND ANY EXISTING CIRCUITRY SUPPLYING DEVICES OR FIXTURES TO BE AROUND AND OUT OF THE WAY OF NEW CUTOUTS.

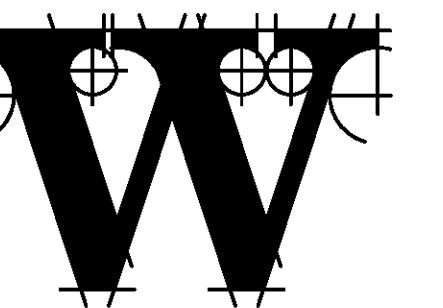
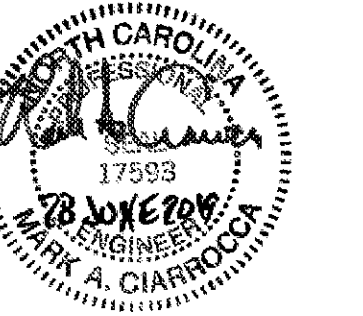


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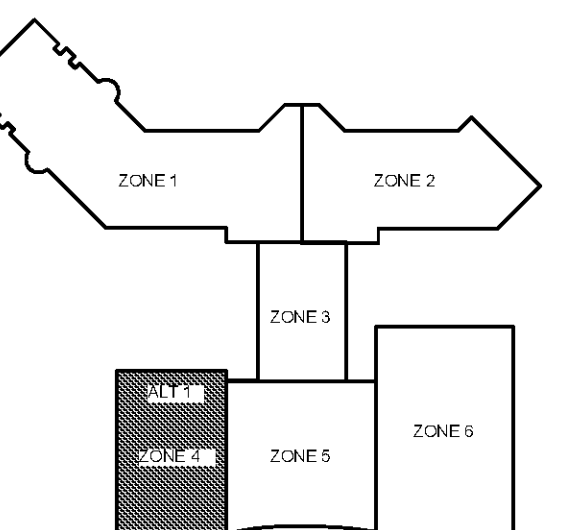
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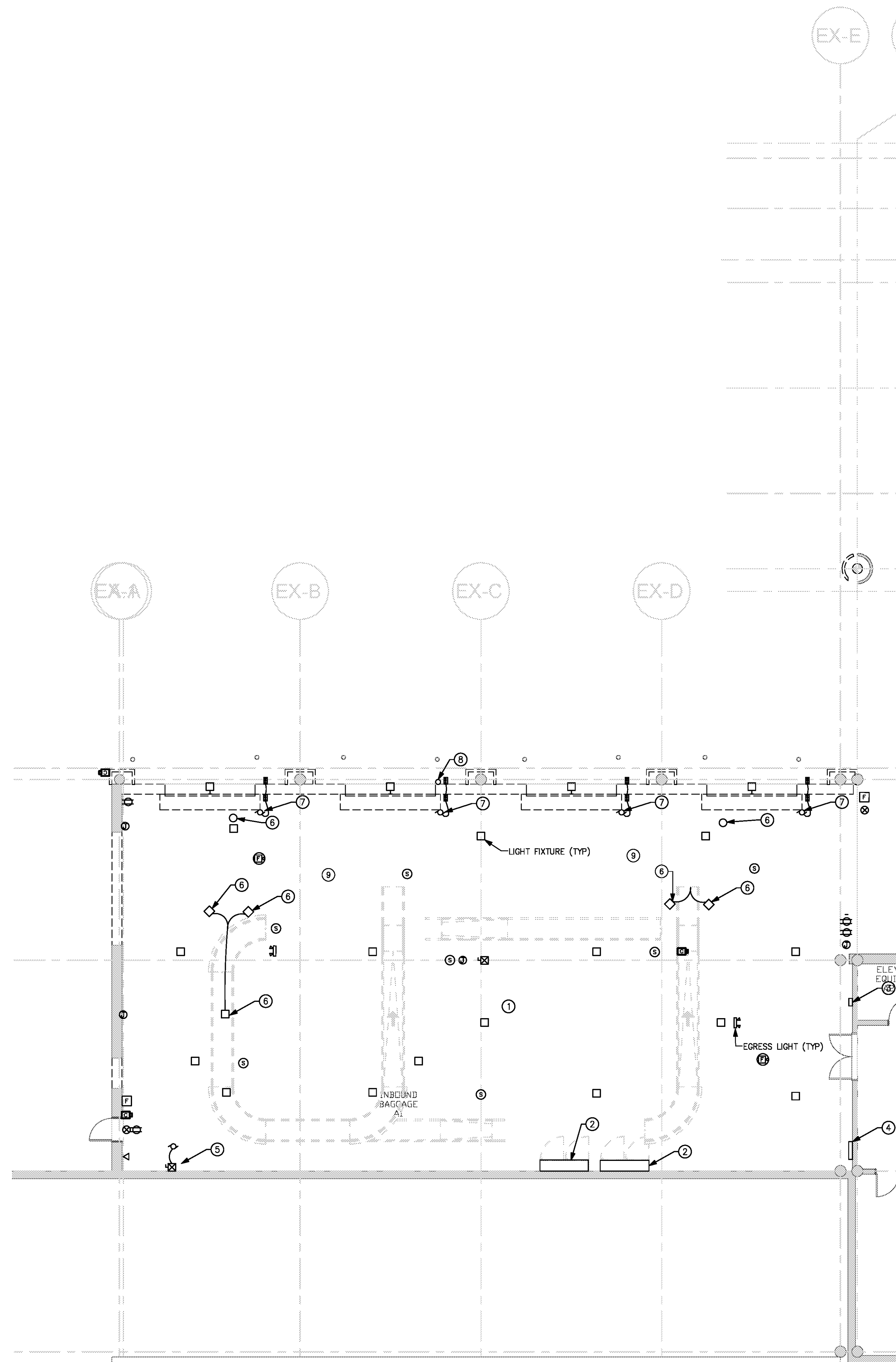
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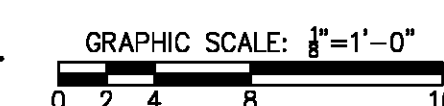
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PROJECT NUMBER 9202-000  
SHEET TITLE

**SCHEDULE 2 - ELECTRICAL RAMP LEVEL DEMOLITION PLAN ZONE 4 - ALTERNATE 1**  
SHEET NUMBER

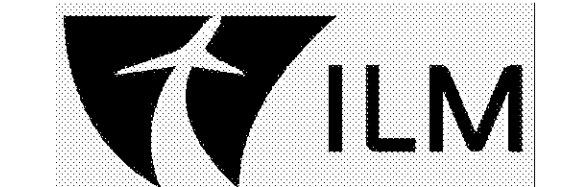
**ED2-114**



**SCHEDULE 2 - ELECTRICAL RAMP LEVEL - DEMOLITION PLAN - ZONE 4**  
SCALE: 1/8" = 1'-0"



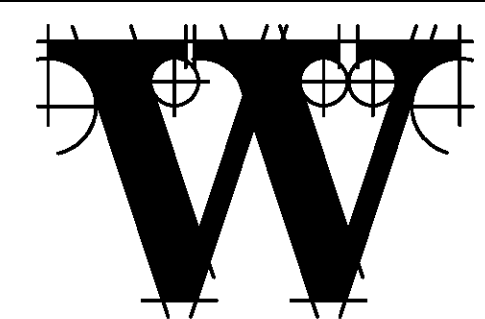
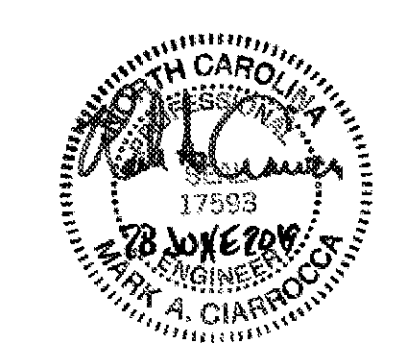
FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
 • SEE ARCHITECTURAL PLANS A-01\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.  
 • SEE BAGGAGE HANDLING SYSTEM PLANS B-\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.  
 • COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.



**TERMINAL IMPROVEMENTS CONTRACT 3**

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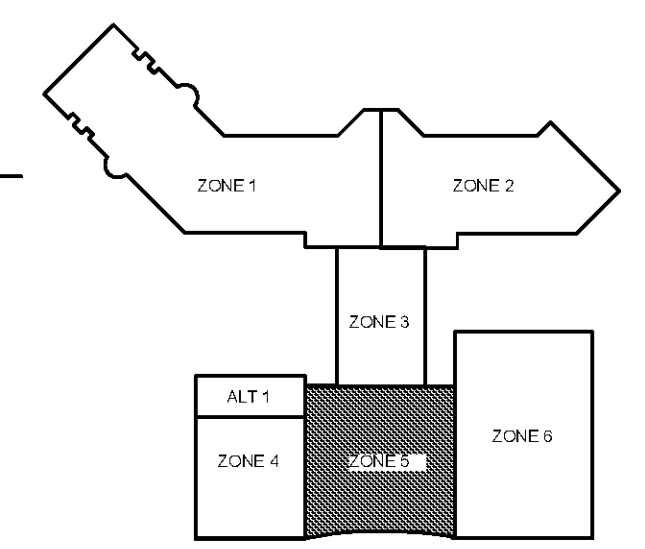
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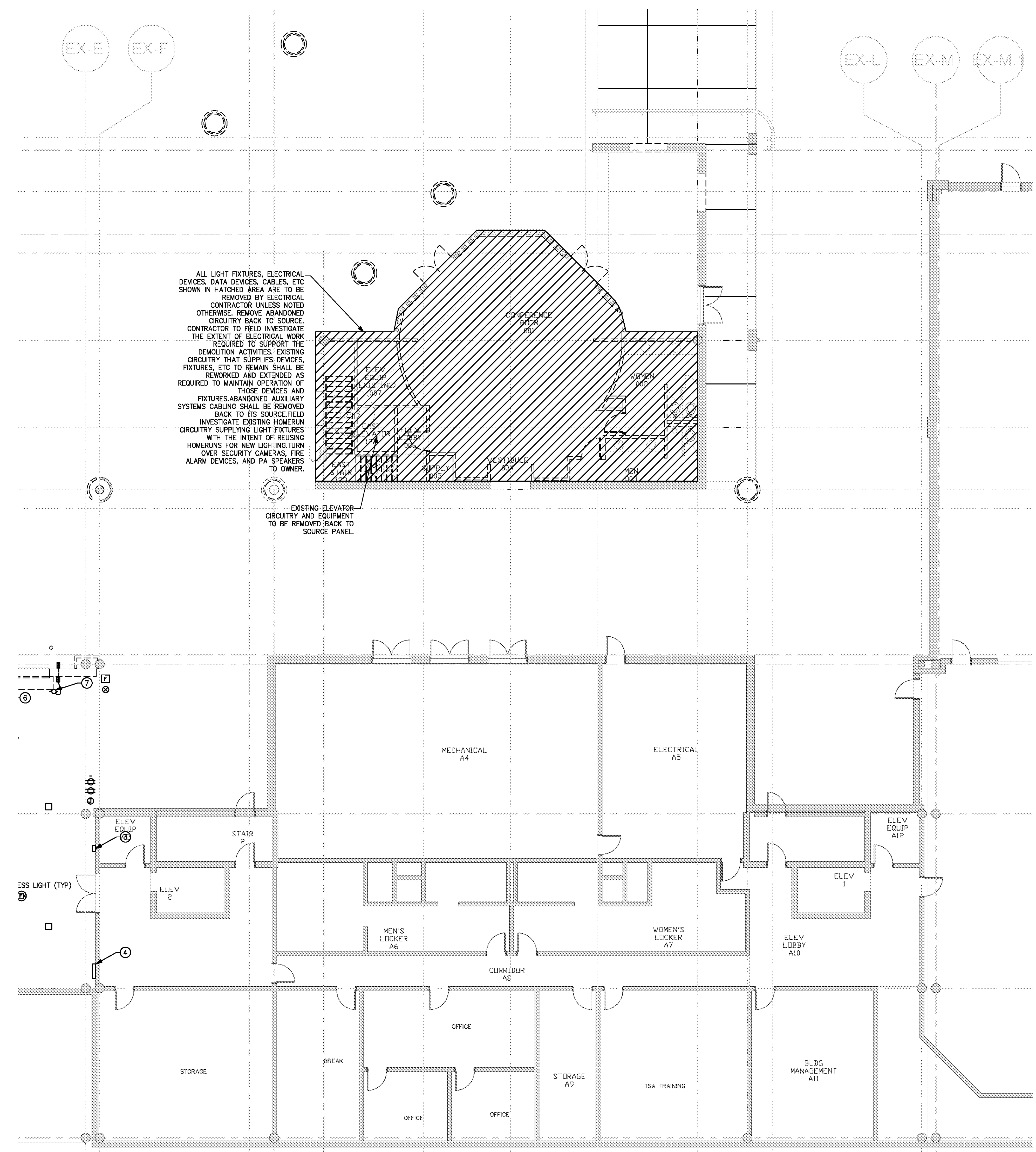
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DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE

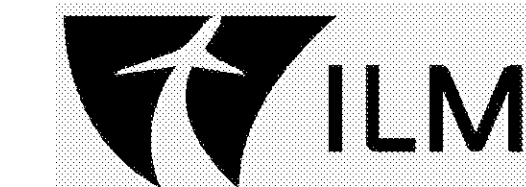
**SCHEDULE 2 - ELECTRICAL RAMP LEVEL DEMOLITION PLAN ZONE 5**  
 SHEET NUMBER

**ED2-115**



FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:

- SEE ARCHITECTURAL PLANS A-01\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.
- SEE BAGGAGE HANDLING SYSTEM PLANS B-\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.
- COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.

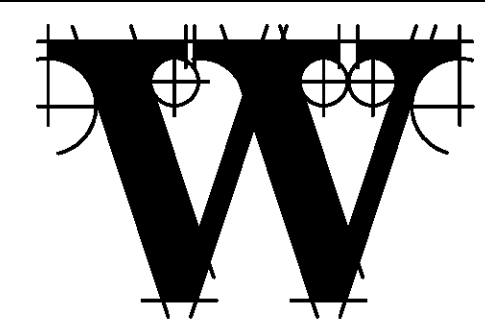
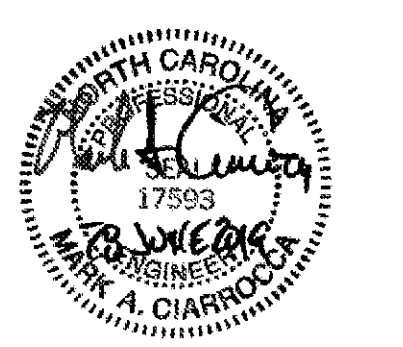


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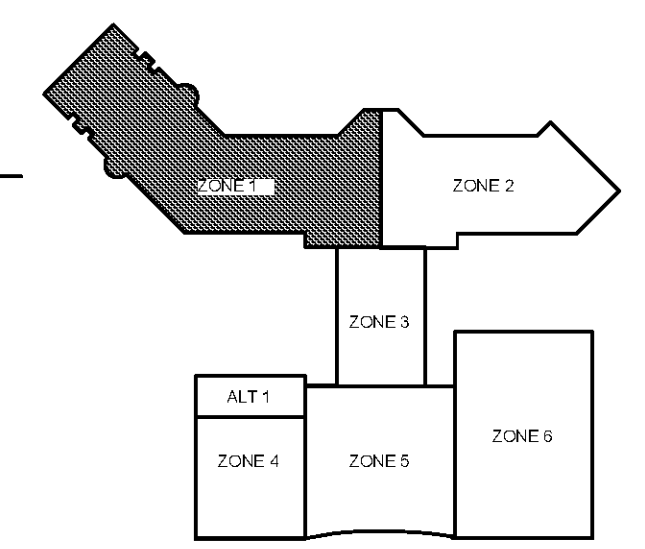
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**CHEATHAM & ASSOC.**

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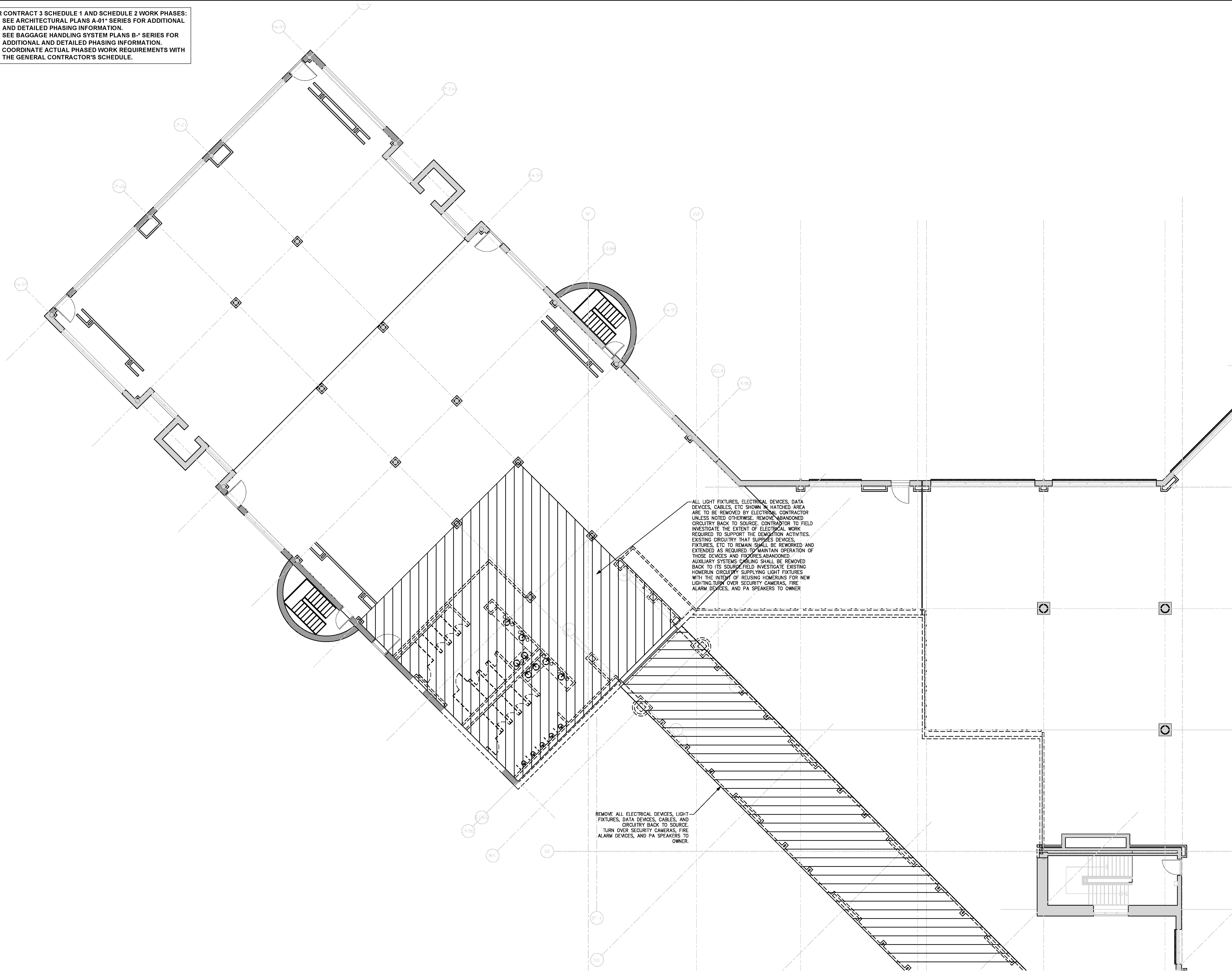
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DATE 06/28/19  
PROJECT NUMBER 9202-000  
SHEET TITLE

**SCHEDULE 2 - ELECTRICAL BOARDING LEVEL DEMOLITION PLAN ZONE 1**  
SHEET NUMBER

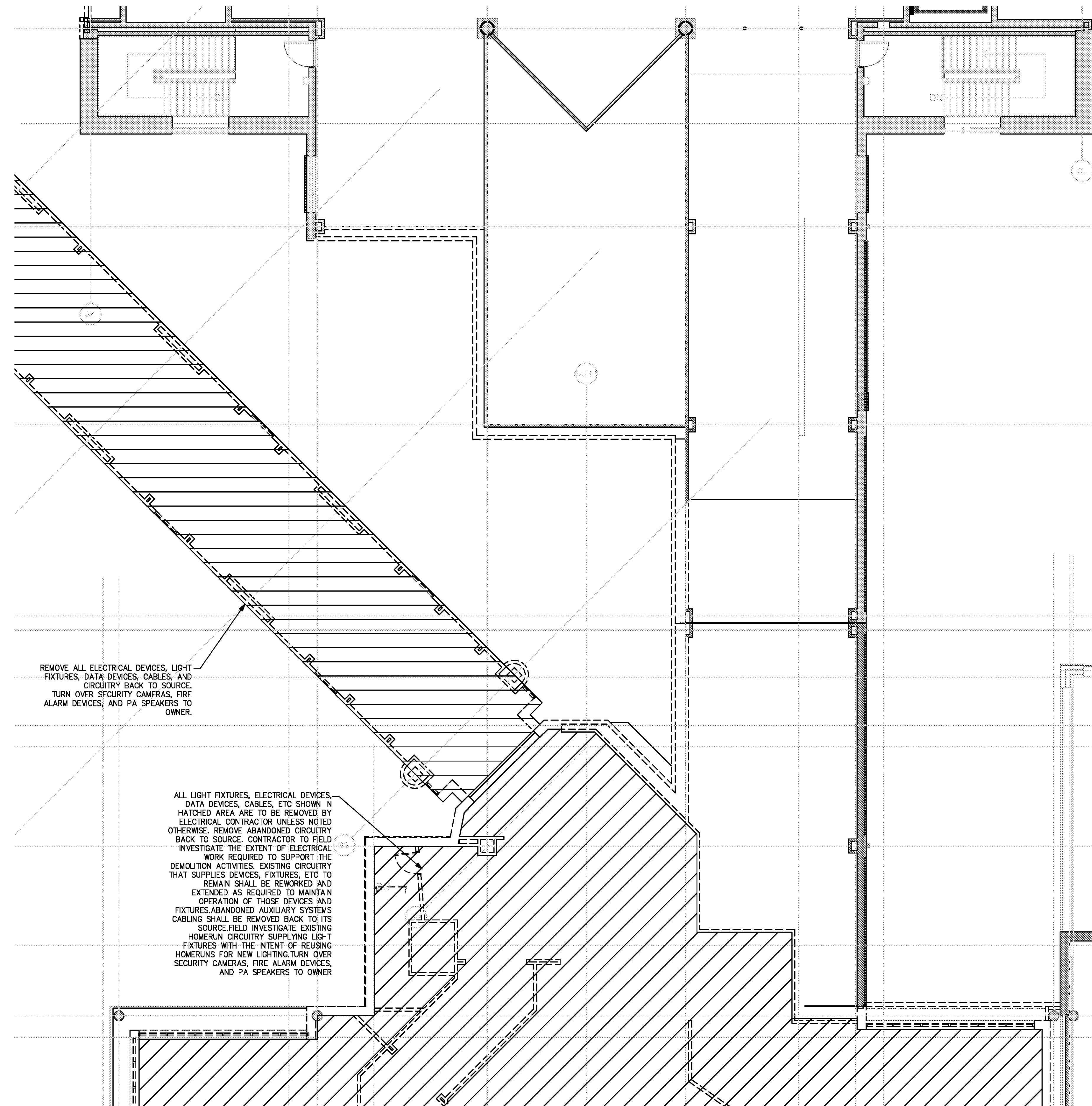
**ED2-121**



ALL LIGHT FIXTURES, ELECTRICAL DEVICES, DATA DEVICES, CABLES, ETC SHOWN IN HATCHED AREA ARE TO BE REMOVED BY ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE. REMOVE ABANDONED CIRCUITRY BACK TO SOURCE. CONTRACTOR TO FIELD INVESTIGATE THE EXTENT OF ELECTRICAL WORK REQUIRED TO SUPPORT THE DEMOLITION ACTIVITIES. EXISTING CIRCUITRY THAT SUPPLIES DEVICES, FIXTURES, ETC TO REMAIN SHALL BE REWORKED AND EXTENDED AS REQUIRED TO MAINTAIN OPERATION OF THOSE DEVICES AND FIXTURES. ABANDONED AUXILIARY SYSTEMS CABLEING SHALL BE REMOVED BACK TO ITS SOURCE. FIELD INVESTIGATE EXISTING HOMERUN CIRCUITRY SUPPLYING LIGHT FIXTURES WITH THE INTENT OF REUSING HOMERUNS FOR NEW LIGHTING. TURN OVER SECURITY CAMERAS, FIRE ALARM DEVICES, AND PA SPEAKERS TO OWNER.

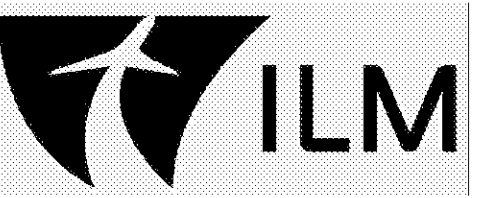
REMOVE ALL ELECTRICAL DEVICES, LIGHT FIXTURES, DATA DEVICES, CABLES, AND CIRCUITRY BACK TO SOURCE. TURN OVER SECURITY CAMERAS, FIRE ALARM DEVICES, AND PA SPEAKERS TO OWNER.

- FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:
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**SCHEDULE 2 - ELECTRICAL BOARDING LEVEL - DEMOLITION PLAN - ZONE 3**  
SCALE: 1/8" = 1'-0"

GRAPHIC SCALE: 1"=1'-0"  
0 2 4 8 16

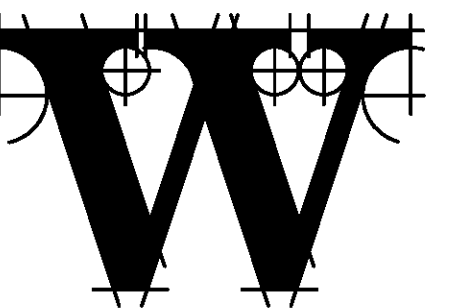
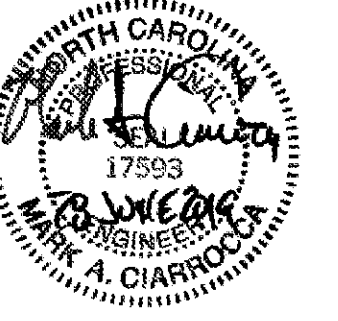


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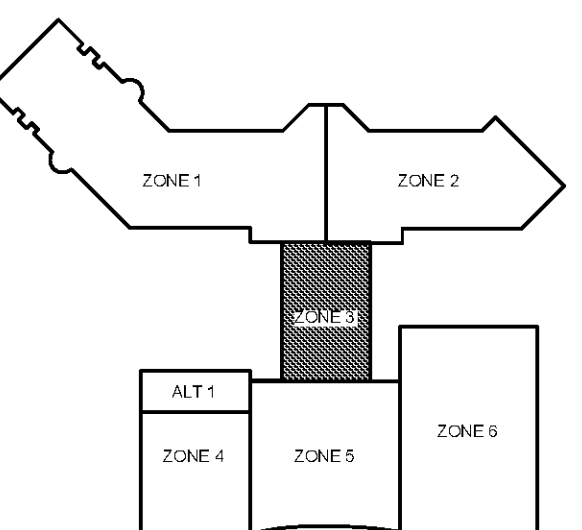
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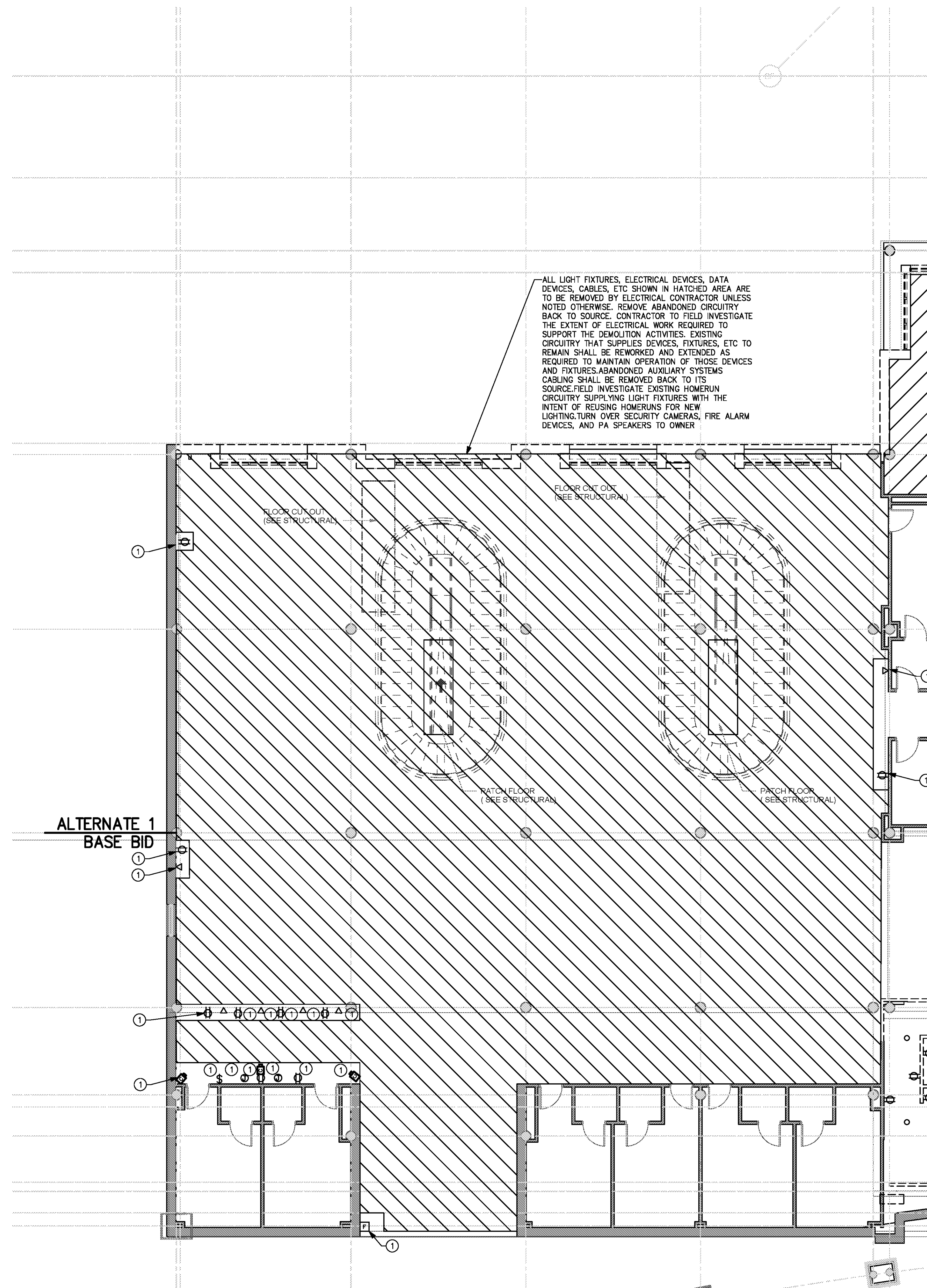
DATE 06/28/19  
PROJECT NUMBER 9202-000  
SHEET TITLE

**SCHEDULE 2 - ELECTRICAL BOARDING LEVEL DEMOLITION PLAN ZONE 3**  
SHEET NUMBER

**ED2-123**

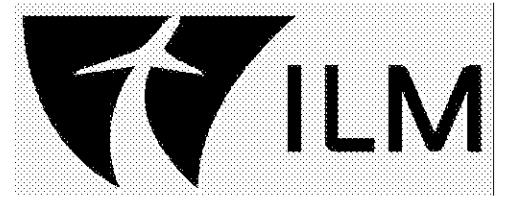
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  - SEE BAGGAGE HANDLING SYSTEM PLANS B-\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.
  - COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.

KEYED NOTES:  
 ① EXISTING DEVICES TO REMAIN.



① SCHEDULE 2 - ELECTRICAL BOARDING LEVEL - DEMOLITION PLAN - ZONE 4  
 SCALE: 1/8" = 1'-0"

GRAPHIC SCALE: 1" = 1'-0"  
 0 2 4 8 16  
 TRUE NORTH

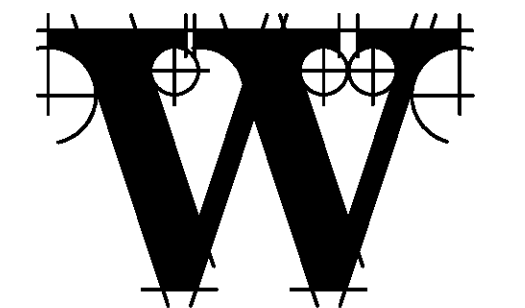
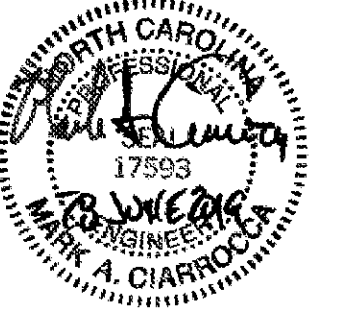


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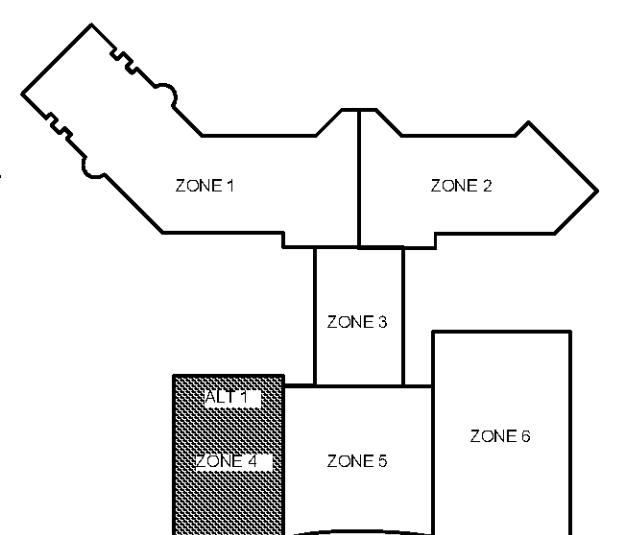
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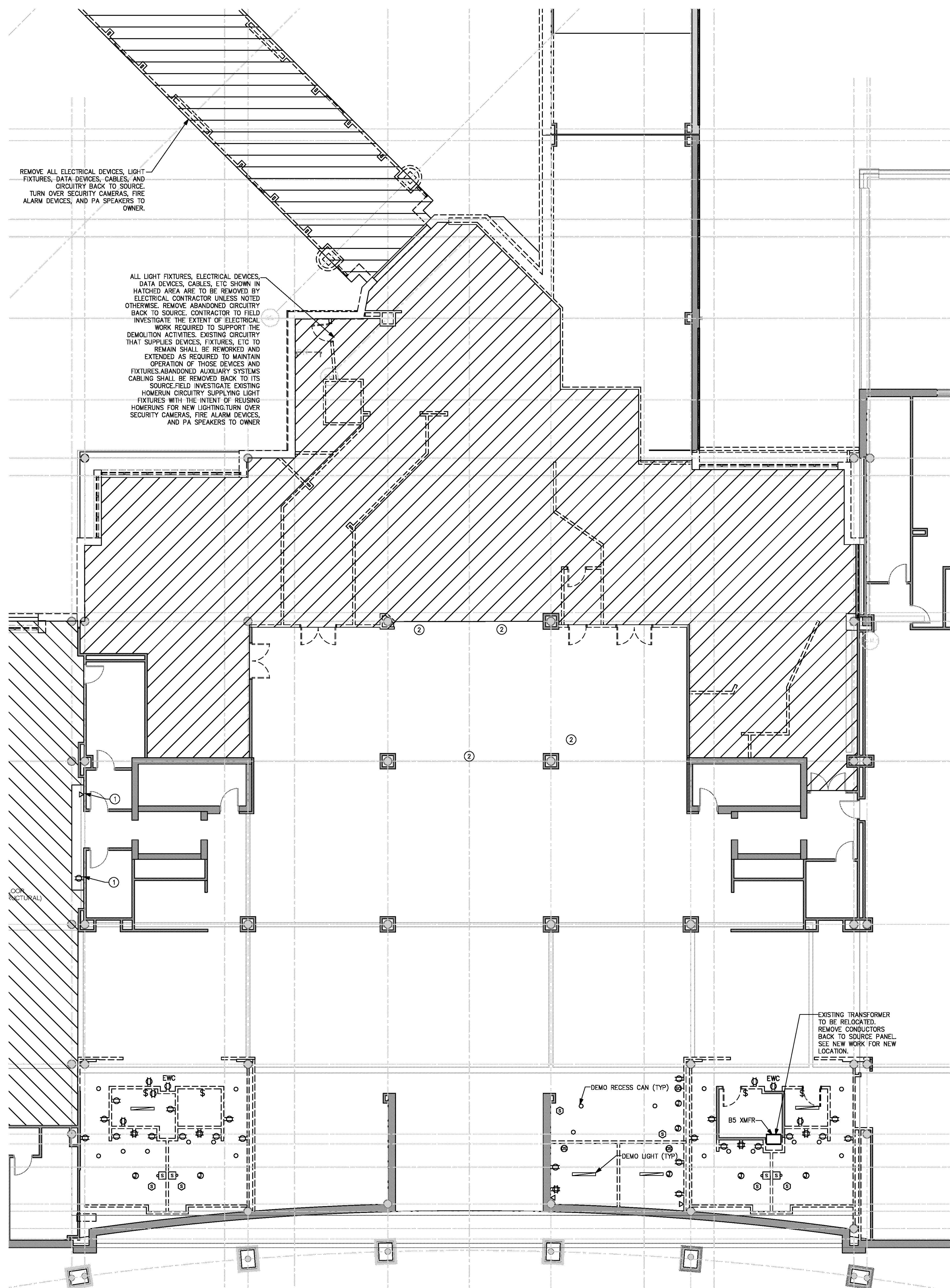
DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE

**SCHEDULE 2 - ELECTRICAL BOARDING LEVEL DEMOLITION PLAN ZONE 4**

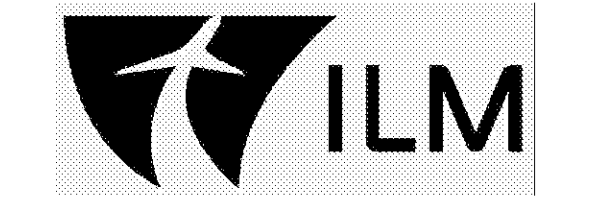
SHEET NUMBER

**ED2-124**

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
 • SEE ARCHITECTURAL PLANS A-01\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.  
 • SEE BAGGAGE HANDLING SYSTEM PLANS B-\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.  
 • COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.



- KEYED NOTES:**
- ① DEVICES EXISTING TO REMAIN.
  - ② REMOVE (2) DATA OUTLETS AND CABLES BACK TO SOURCE.
- GENERAL NOTES:**
1. THE ELECTRICAL CONTRACTOR SHALL DE-ENERGIZE AND REMOVE EXISTING DEVICES, FIXTURES, CIRCUITRY, ETC. TO ACCOMMODATE THE DEMOLITION ACTIVITIES.
  2. ALL LIGHT FIXTURES AND SWITCHES SHOWN ARE TO BE REMOVED UNLESS OTHERWISE NOTED. CIRCUITRY TO REMAIN. FIELD INVESTIGATE EXISTING HOMERUN CIRCUITRY SUPPLYING LIGHT FIXTURES WITH THE INTEND OF REUSING HOMERUNS FOR NEW LIGHTING.
  3. ALL RECEPTACLES SHOWN ARE TO BE REMOVED UNLESS OTHERWISE NOTED.
  4. ALL FIRE ALARM DEVICES AND CIRCUITRY SHALL BE REMOVED.
  5. ALL PA SYSTEM DEVICES SHALL BE REMOVED.
  6. ALL DATA OUTLETS AND CABLES SHALL BE REMOVED BACK TO SOURCE.
  7. ABANDONED CIRCUITRY THAT SUPPLIES DEVICES, FIXTURES, ETC. TO REMAIN SHALL BE REWORKED AND EXTENDED AS REQUIRED TO MAINTAIN OPERATION OF THOSE DEVICES AND FIXTURES.

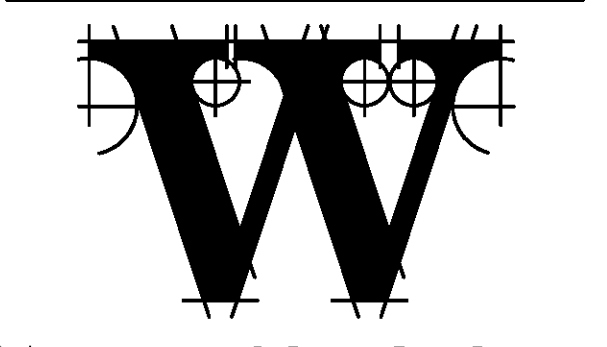
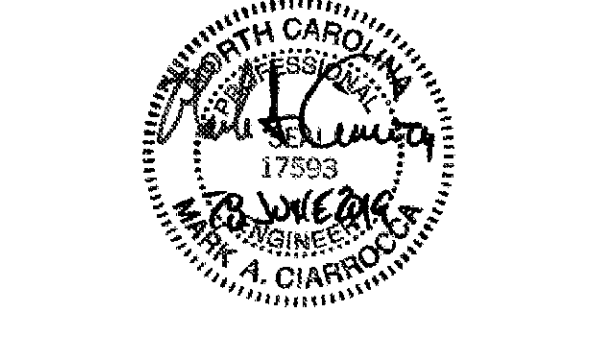


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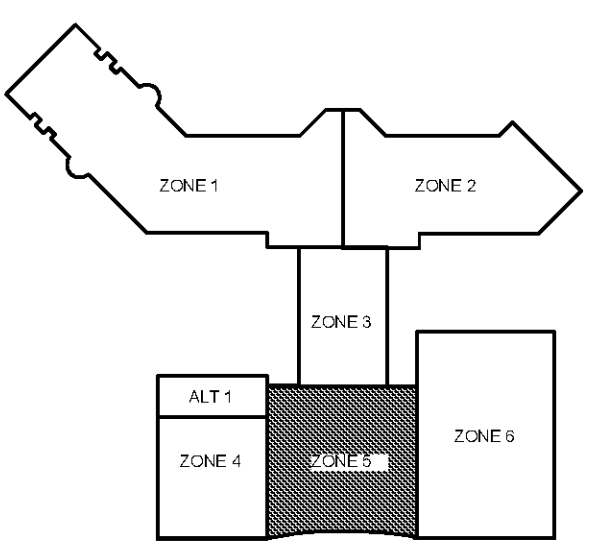
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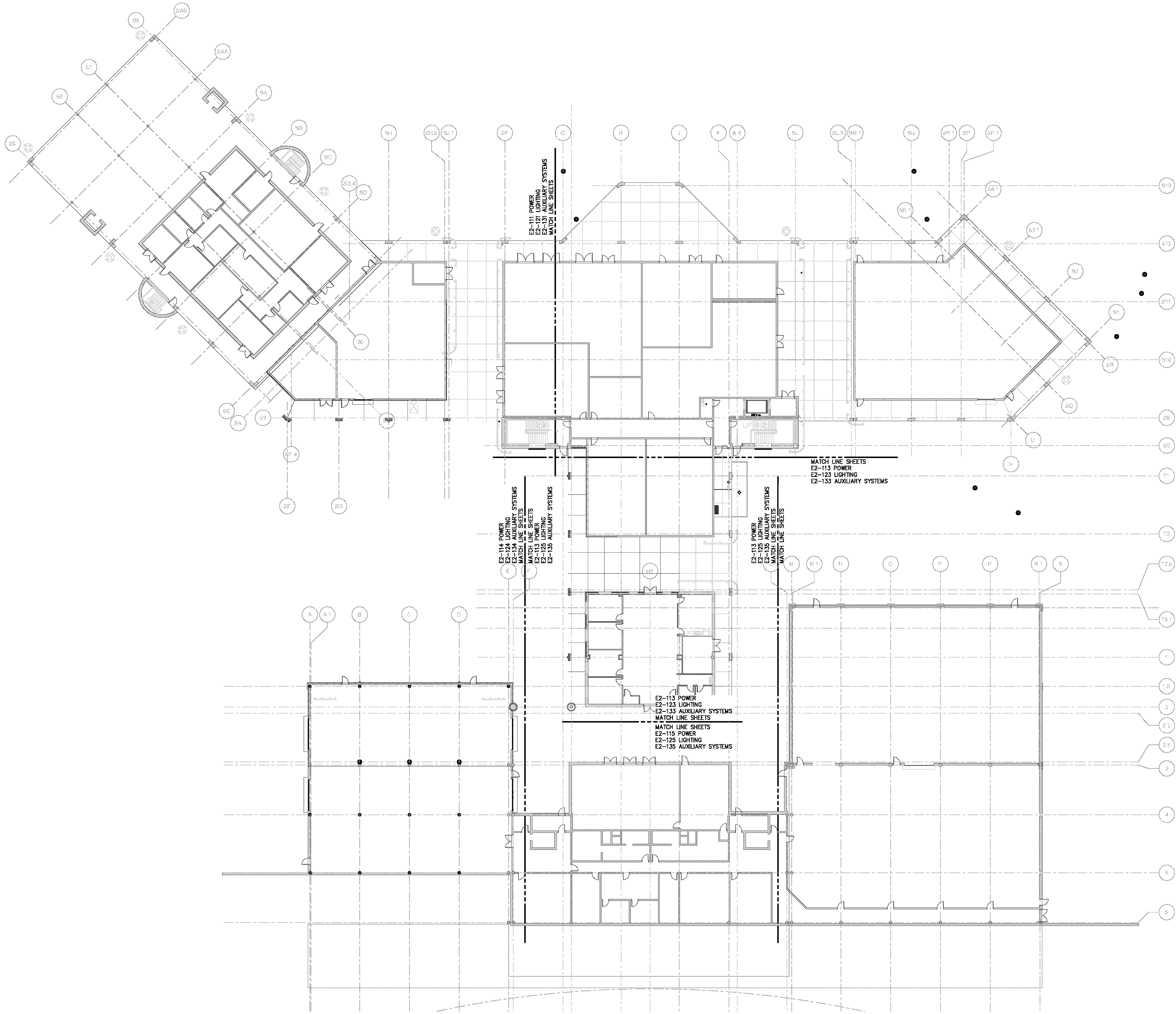
**REVISIONS**

DATE	PROJECT NUMBER	SHEET TITLE
06/28/19	9202-000	SCHEDULE 2 - ELECTRICAL BOARDING LEVEL DEMOLITION PLAN ZONE 5

DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE SCHEDULE 2 - ELECTRICAL BOARDING LEVEL DEMOLITION PLAN ZONE 5  
 SHEET NUMBER

**ED2-125**

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
 • SEE ARCHITECTURAL PLANS A-01\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.  
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**1** SCHEDULE 2 - ELECTRICAL RAMP LEVEL - OVERALL PLAN  
 SCALE: 1" = 20'  
 GRAPHIC SCALE: 1" = 20'  
 TRUE NORTH

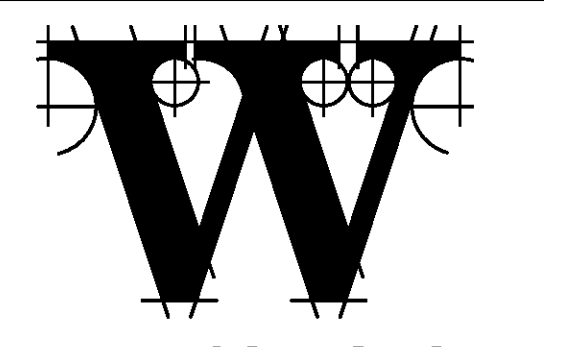
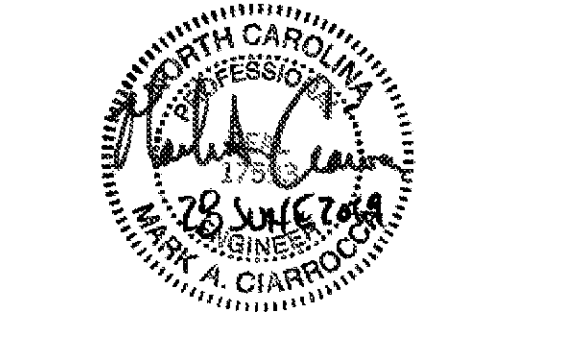


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STRUCTURAL ENGINEER  
**STEWART**

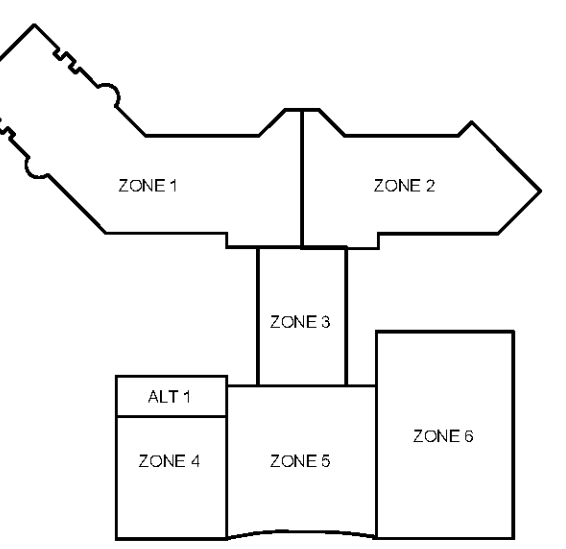
FF/P/ME ENGINEER  
**CHEATHAM & ASSOC.**

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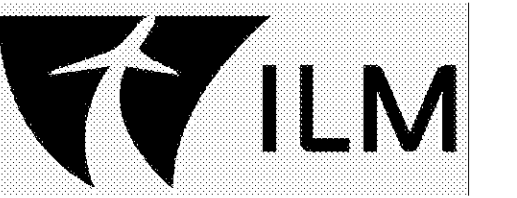
REVISIONS

DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE

**SCHEDULE 2 - ELECTRICAL RAMP LEVEL OVERALL PLAN**

SHEET NUMBER  
**E2-110**

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
 • SEE ARCHITECTURAL PLANS A-01\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.  
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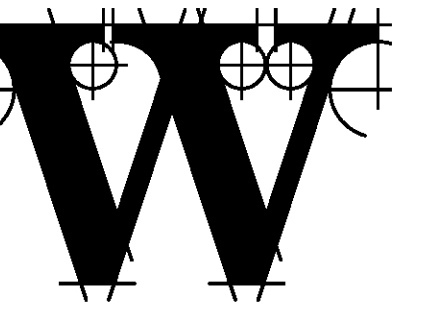
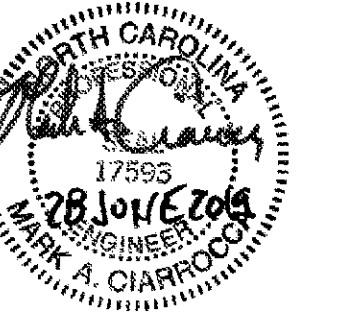


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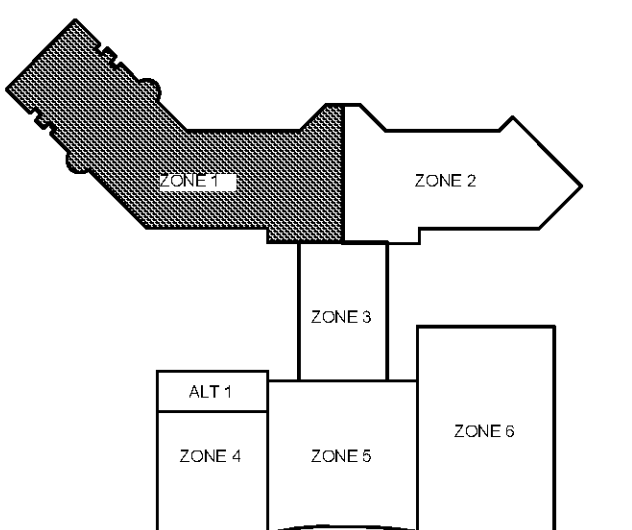
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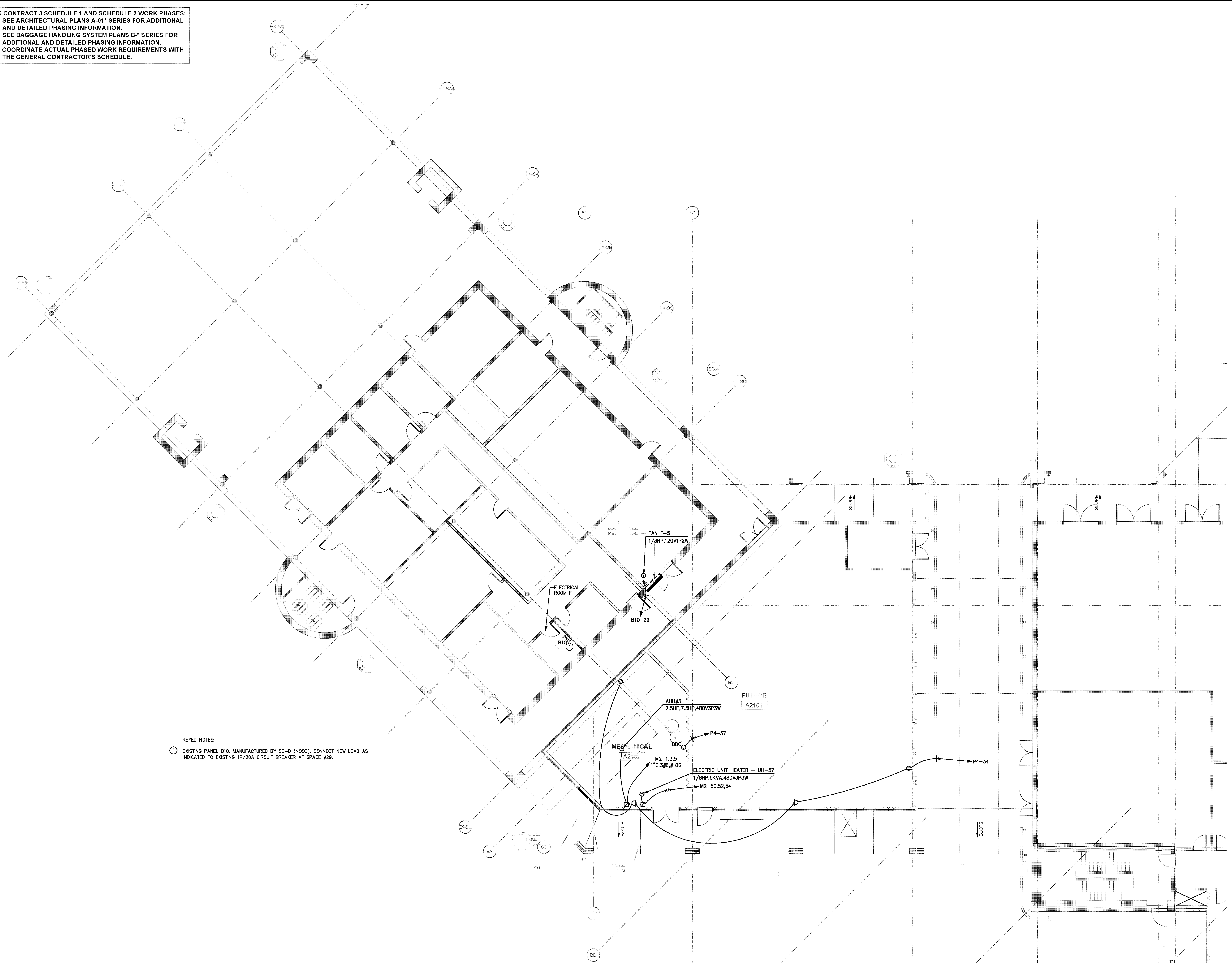
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**REVISIONS**

DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE

**SCHEDULE 2 - ELECTRICAL RAMP LEVEL POWER PLAN ZONE 1**  
 SHEET NUMBER

**E2-111**



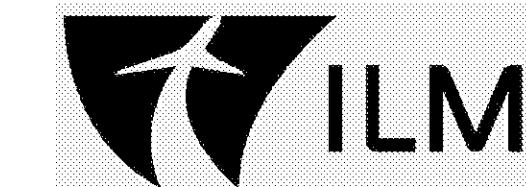
**KEYED NOTES:**  
 ① EXISTING PANEL B10, MANUFACTURED BY SQ-D (NOOD), CONNECT NEW LOAD AS INDICATED TO EXISTING 1P/20A CIRCUIT BREAKER AT SPACE #29.

**SCHEDULE 2 - ELECTRICAL RAMP LEVEL - POWER PLAN - ZONE 1**  
 SCALE: 1/8" = 1'-0"

GRAPHIC SCALE: 1" = 1'-0"  
 0 2 4 8 16



FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
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 • SEE BAGGAGE HANDLING SYSTEM PLANS B-\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.  
 • COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.

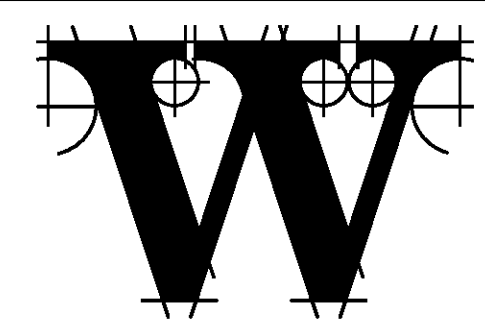
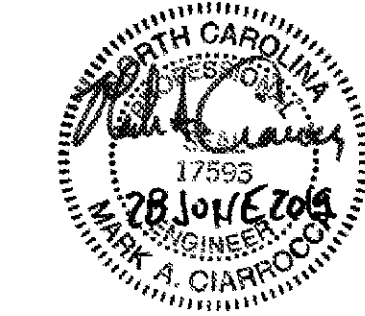


**TERMINAL IMPROVEMENTS CONTRACT 3**

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 Wilmington, NC 28405

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 CONSULTING ENGINEERS  
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**TALBERT & BRIGHT**

CONSULTING ARCHITECT  
**LS3P**

STRUCTURAL ENGINEER  
**STEWART**

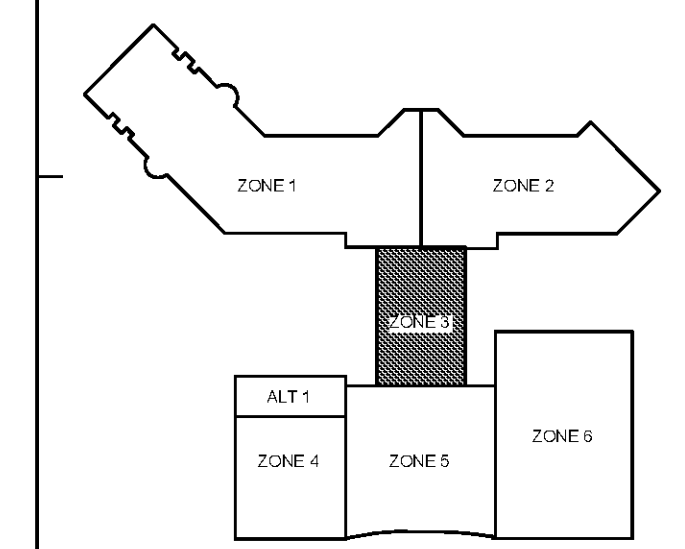
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**CHEATHAM & ASSOC.**

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**KEY PLAN**

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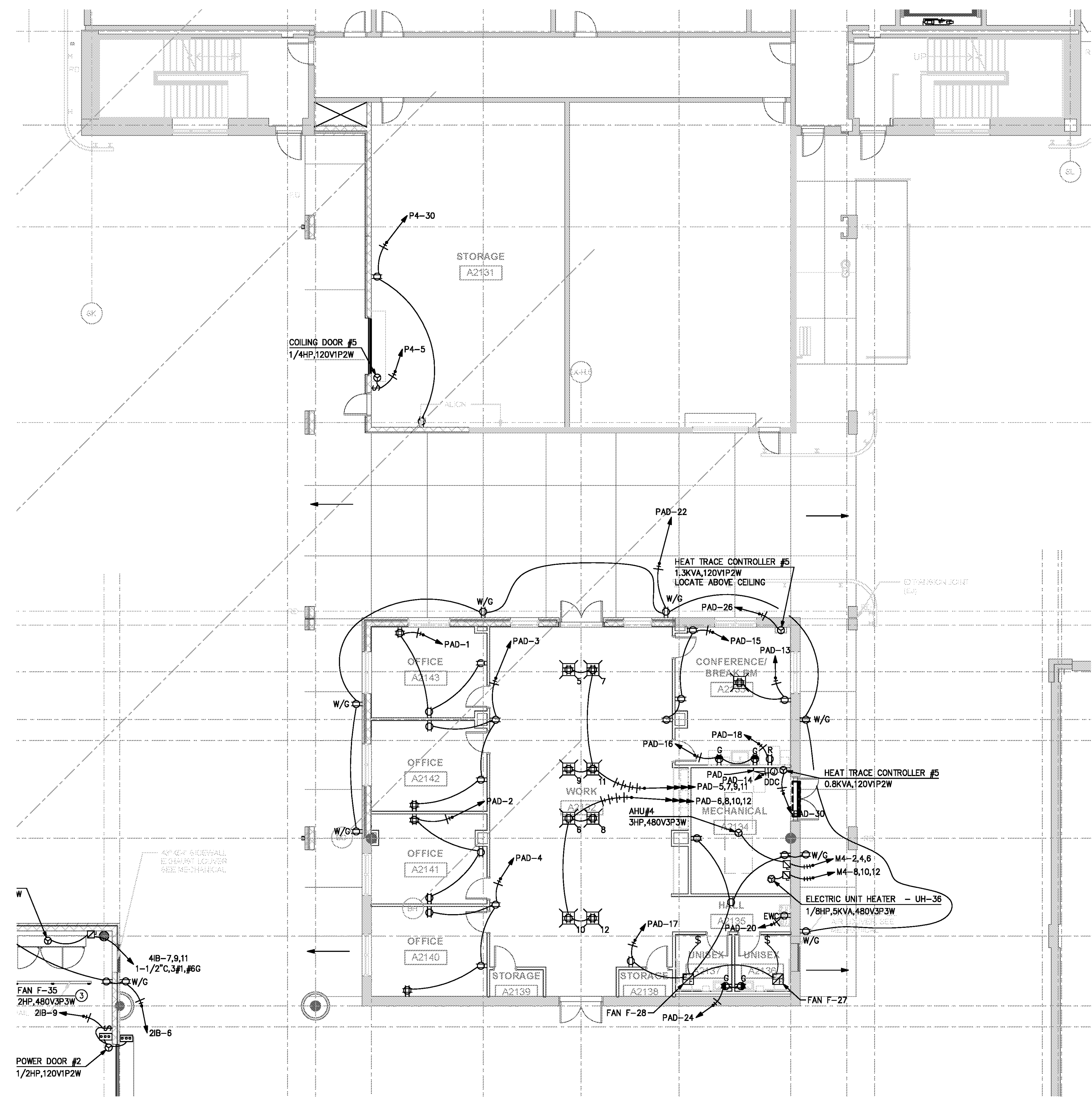
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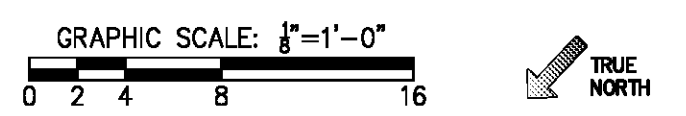
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 PROJECT NUMBER 9202-000  
 SHEET TITLE

**SCHEDULE 2 - ELECTRICAL RAMP LEVEL POWER PLAN ZONE 3**  
 SHEET NUMBER

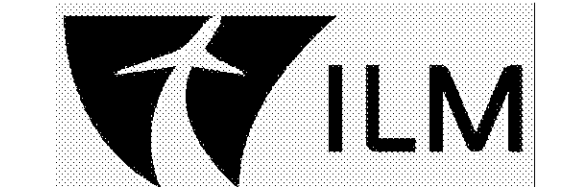
**E2-113**



**SCHEDULE 2 - ELECTRICAL RAMP LEVEL - POWER PLAN - ZONE 3**  
 SCALE: 1/8" = 1'-0"



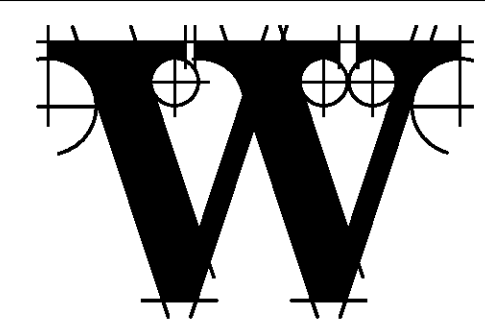
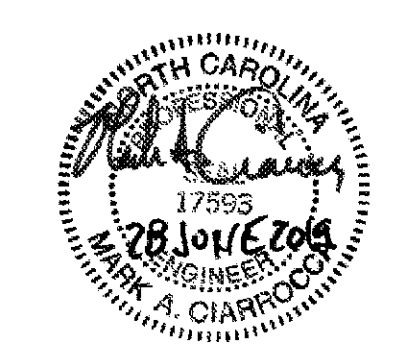
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**STEWART**

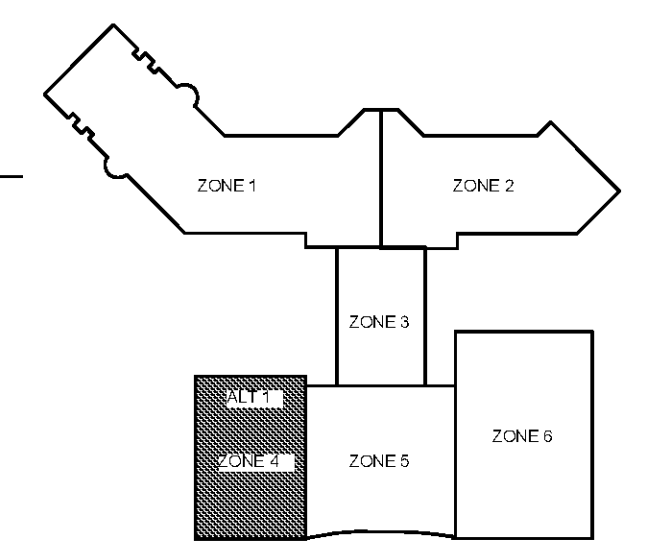
FP/PM/E ENGINEER  
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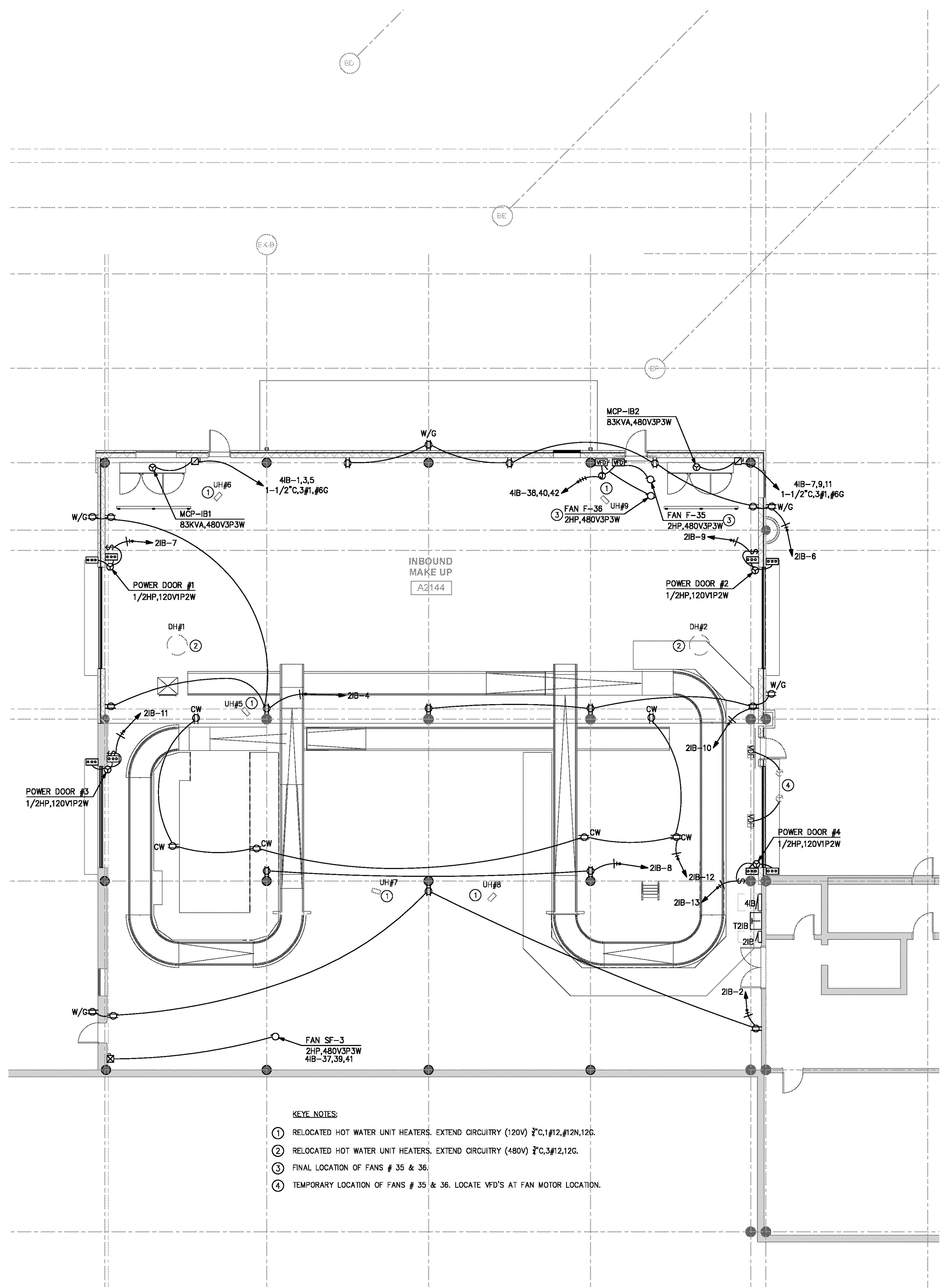
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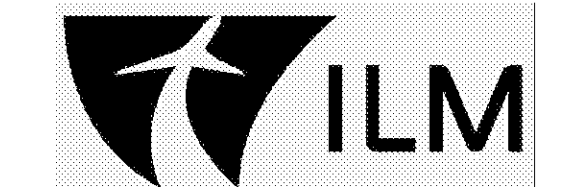
REVISIONS



- KEY NOTES:**
- ① RELOCATED HOT WATER UNIT HEATERS. EXTEND CIRCUITRY (120V) 3" C, 1#12, #12N, 12G.
  - ② RELOCATED HOT WATER UNIT HEATERS. EXTEND CIRCUITRY (480V) 3" C, 3#12, 12G.
  - ③ FINAL LOCATION OF FANS # 35 & 36.
  - ④ TEMPORARY LOCATION OF FANS # 35 & 36. LOCATE 'F'D'S' AT FAN MOTOR LOCATION.

**NOTE:**  
 UPDATE AS/BUILT DRAWINGS WITH CIRCUITRY CHANGES FOR ALL EQUIPMENT.

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
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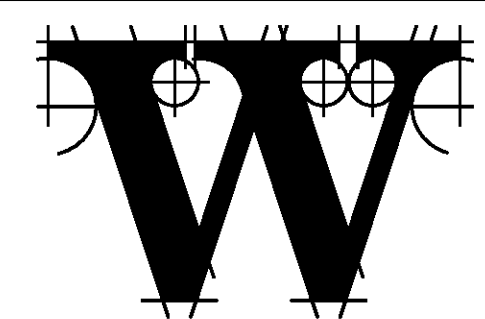
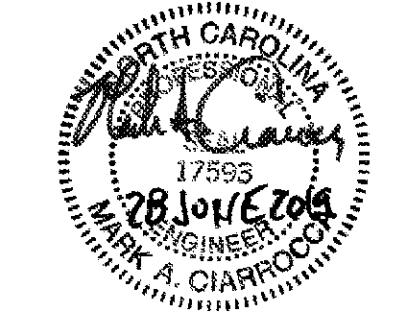


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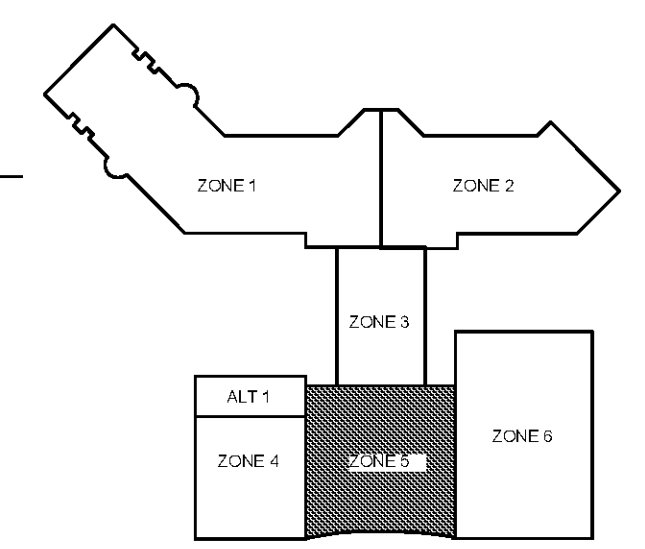
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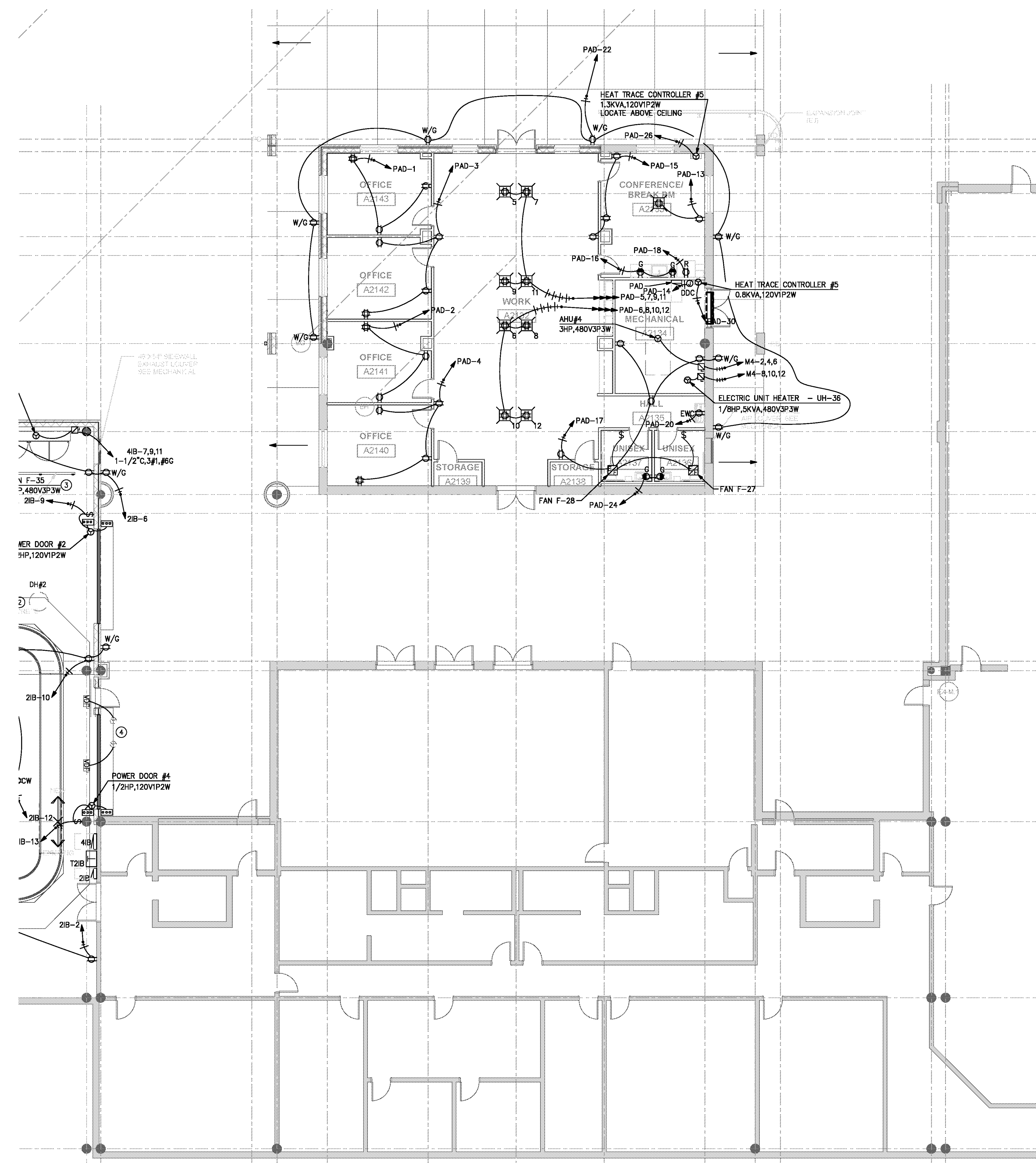
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DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE

**SCHEDULE 2 - ELECTRICAL RAMP LEVEL POWER PLAN ZONE 5**  
 SHEET NUMBER

**E2-115**



**SCHEDULE 2 - ELECTRICAL RAMP LEVEL - POWER PLAN - ZONE 5**

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

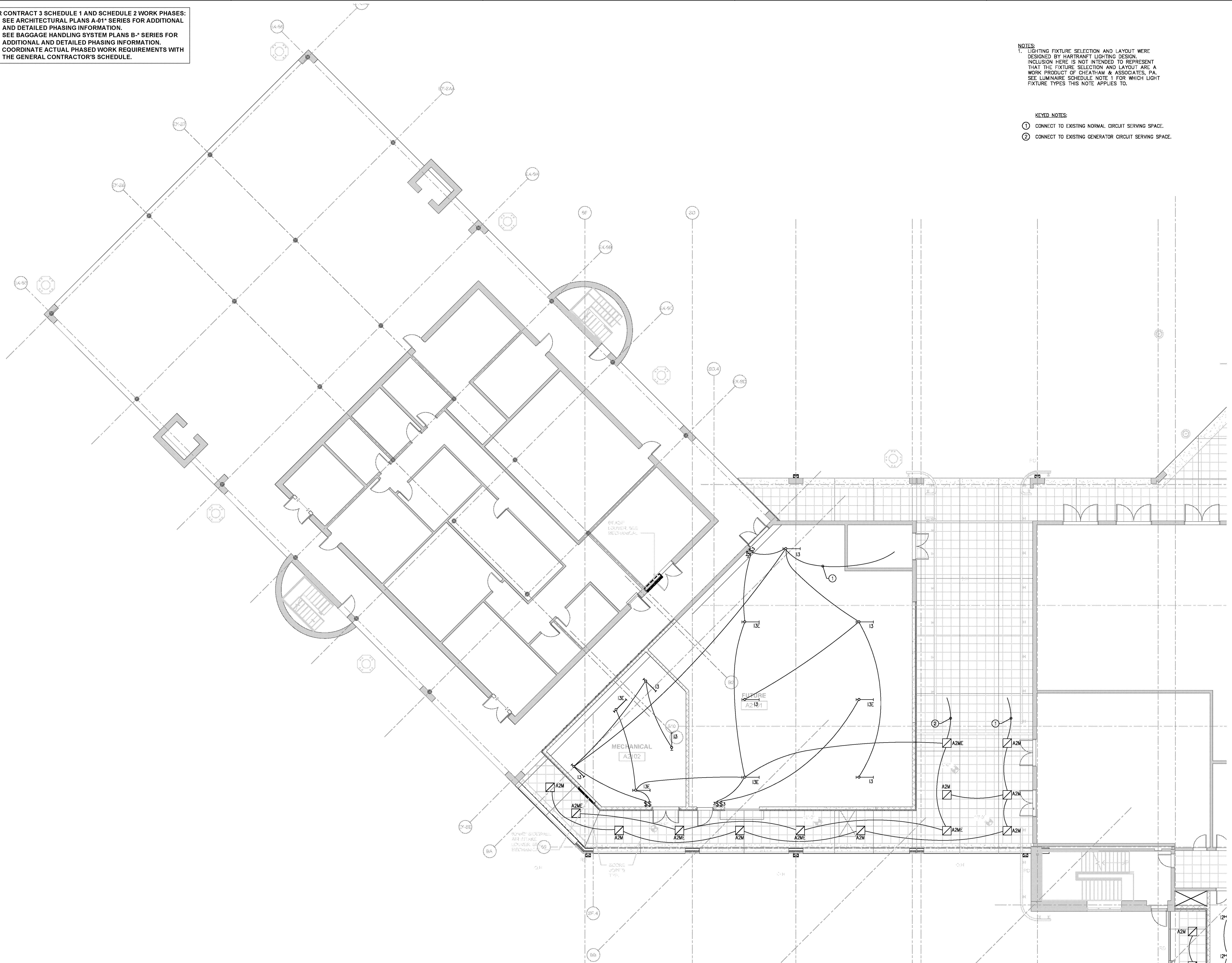
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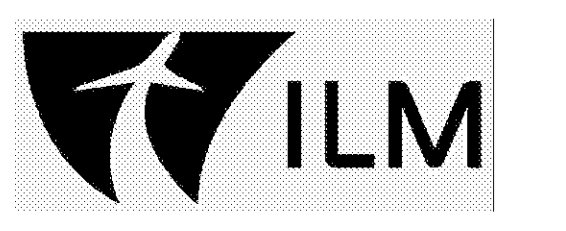
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 • COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.

NOTES:  
 1. LIGHTING FIXTURE SELECTION AND LAYOUT WERE DESIGNED BY HARTRANFT LIGHTING DESIGN. INCLUSION HERE IS NOT INTENDED TO REPRESENT THAT THE FIXTURE SELECTION AND LAYOUT ARE A WORK PRODUCT OF CHEATHAM & ASSOCIATES, P.A. SEE LUMINAIRE SCHEDULE NOTE 1 FOR WHICH LIGHT FIXTURE TYPES THIS NOTE APPLIES TO.

KEYED NOTES:  
 ① CONNECT TO EXISTING NORMAL CIRCUIT SERVING SPACE.  
 ② CONNECT TO EXISTING GENERATOR CIRCUIT SERVING SPACE.



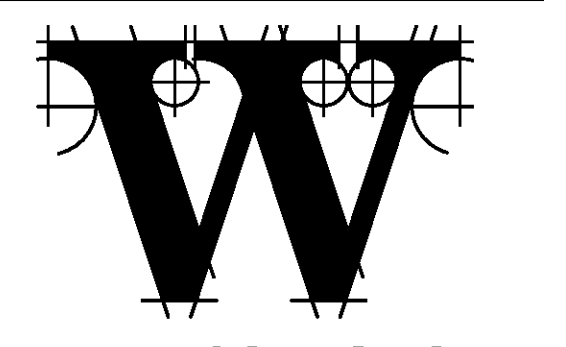
1 SCHEDULE 2 - ELECTRICAL RAMP LEVEL - LIGHTING PLAN - ZONE 1  
 SCALE: 1/8" = 1'-0"



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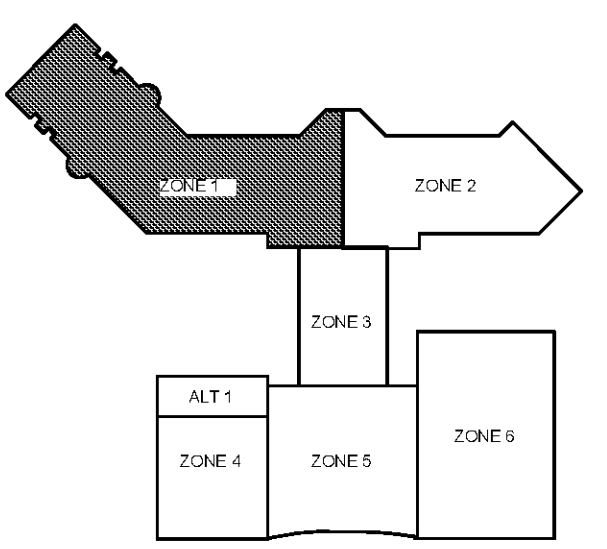
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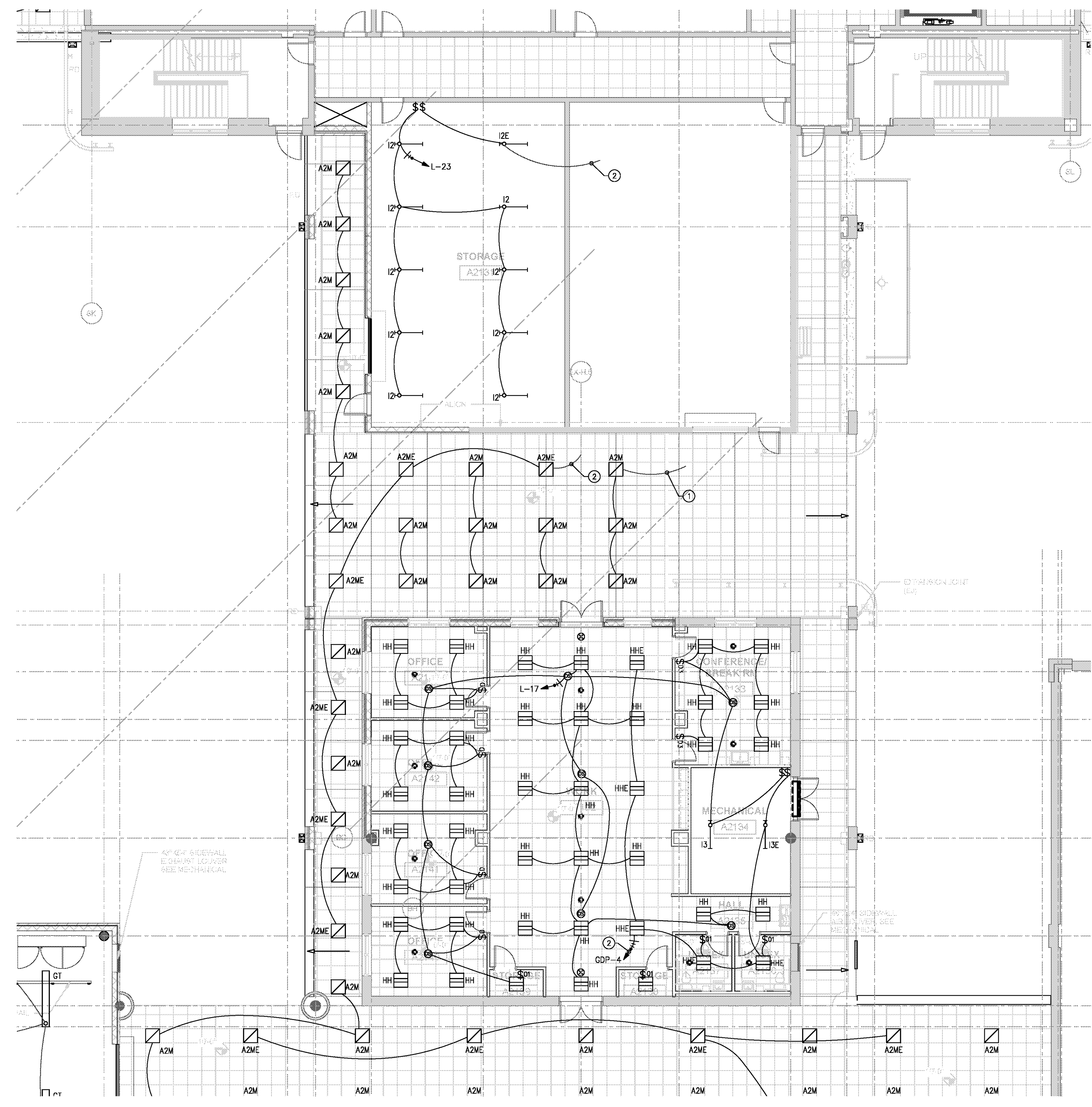
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 SHEET NUMBER

**E2-121**

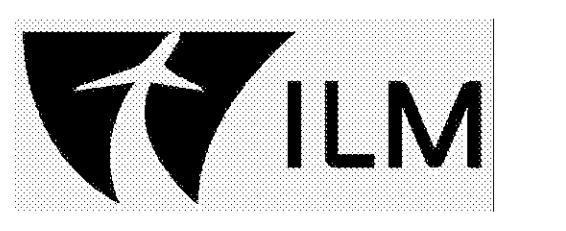
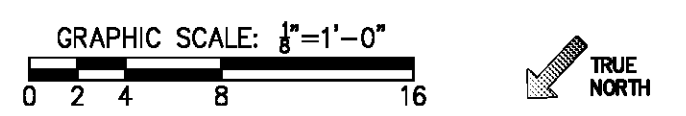
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- KEYED NOTES:  
 ① CONNECT TO EXISTING NORMAL CIRCUIT SERVING SPACE.  
 ② CONNECT TO EXISTING GENERATOR CIRCUIT SERVING SPACE.



1 SCHEDULE 1 - ELECTRICAL RAMP LEVEL - LIGHTING PLAN - ZONE 3  
 SCALE: 1/8" = 1'-0"

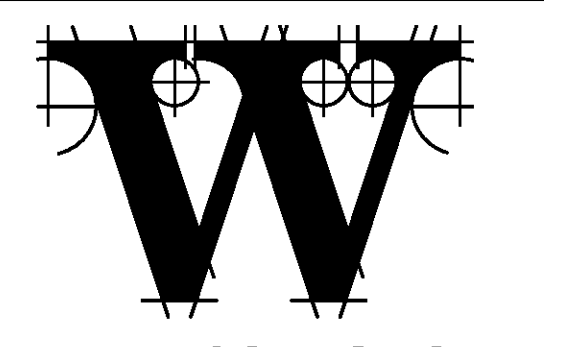
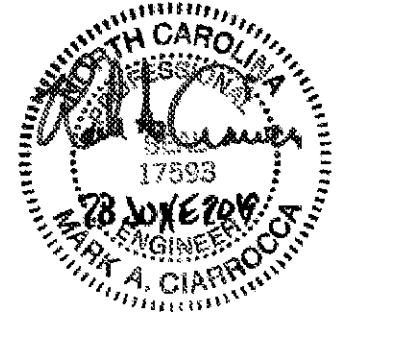


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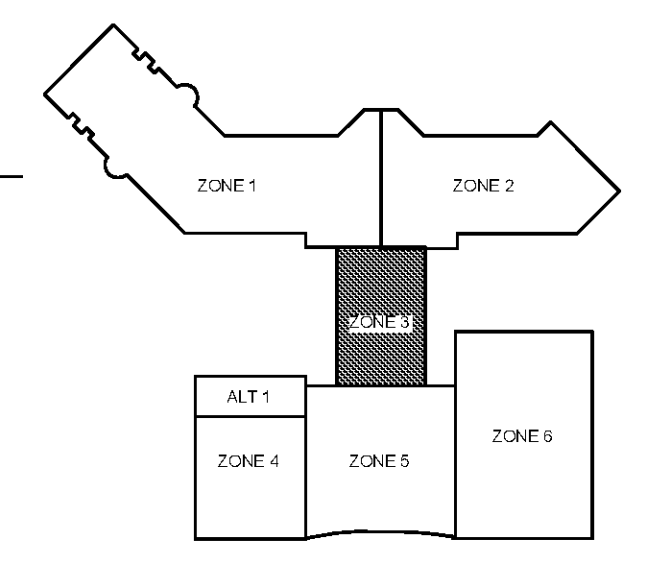
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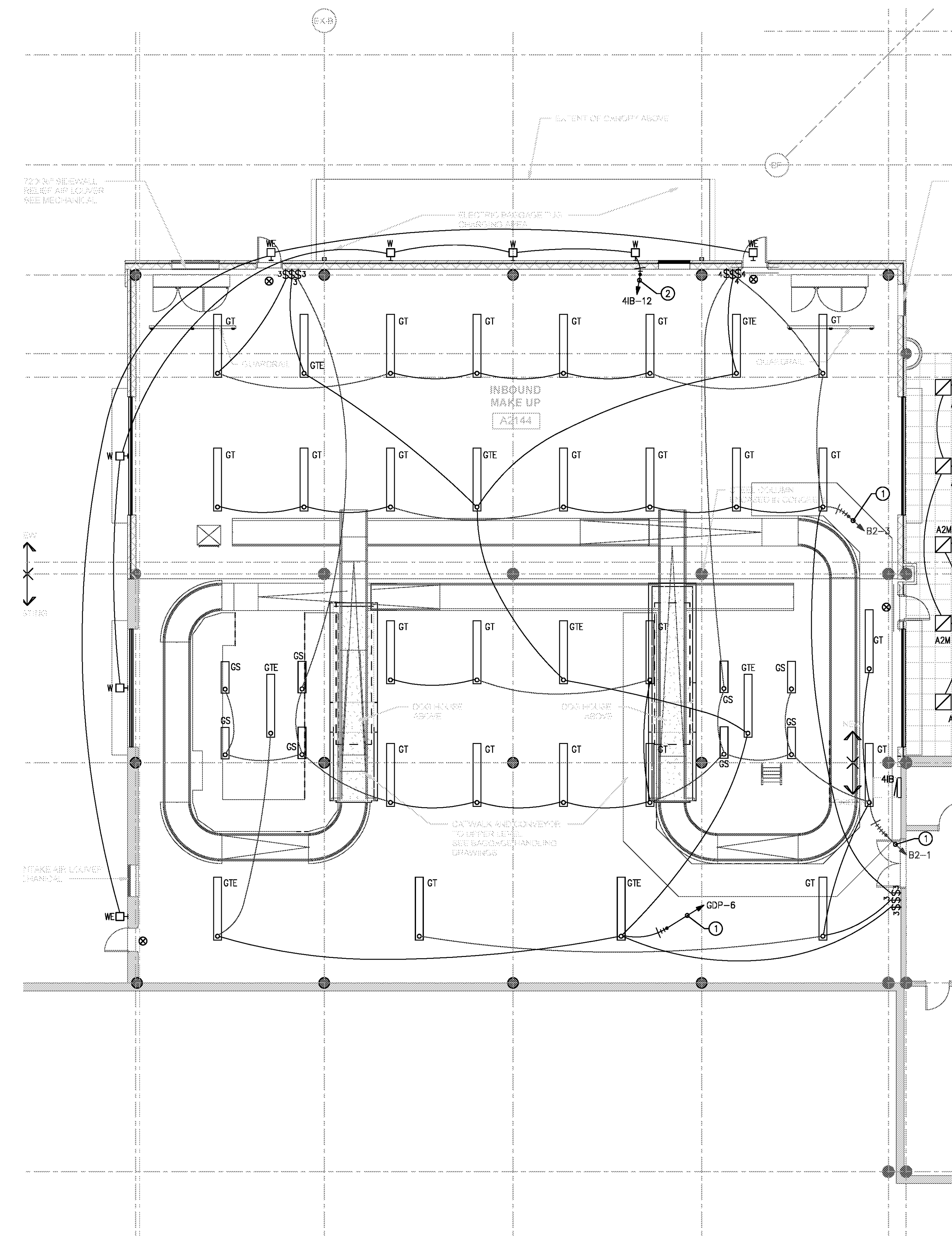
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 SHEET NUMBER

**E2-123**

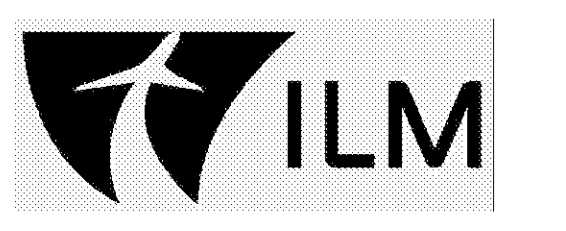
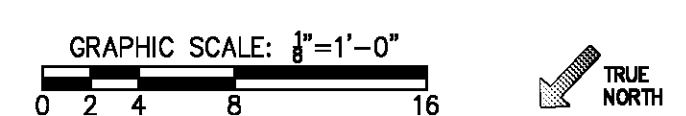
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KEYED NOTES:  
 ① REUSE EXISTING LIGHTING CIRCUIT PREVIOUSLY SERVING SPACE.  
 ② LIGHTING CIRCUIT TO BE CONTROLLED THROUGH EXISTING GE LIGHTING CONTROL PANEL (CATALOG #RCOV48SHL) LOCATED IN ELECTRICAL ROOM AS. SEE E2-125 FOR PANEL LOCATION. CONTRACTOR TO PROVIDE NEW RELAY.



① SCHEDULE 2 - ELECTRICAL RAMP LEVEL - LIGHTING PLAN - ZONE 4  
 SCALE: 1/8" = 1'-0"

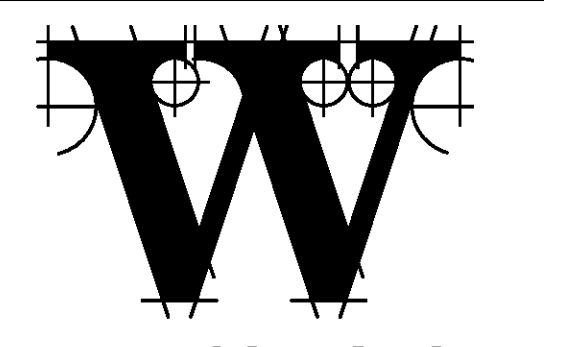
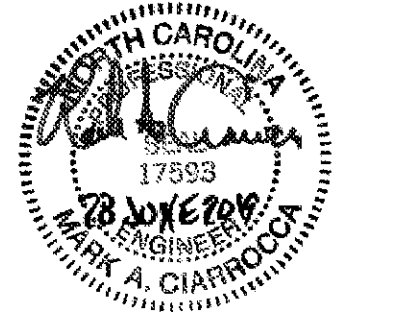


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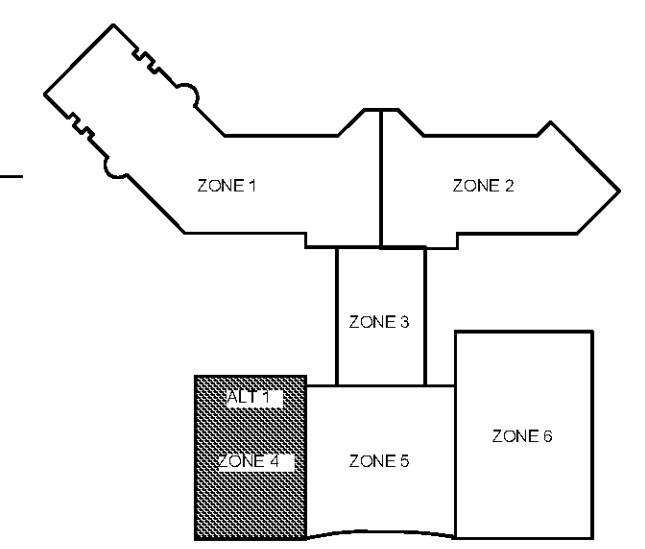
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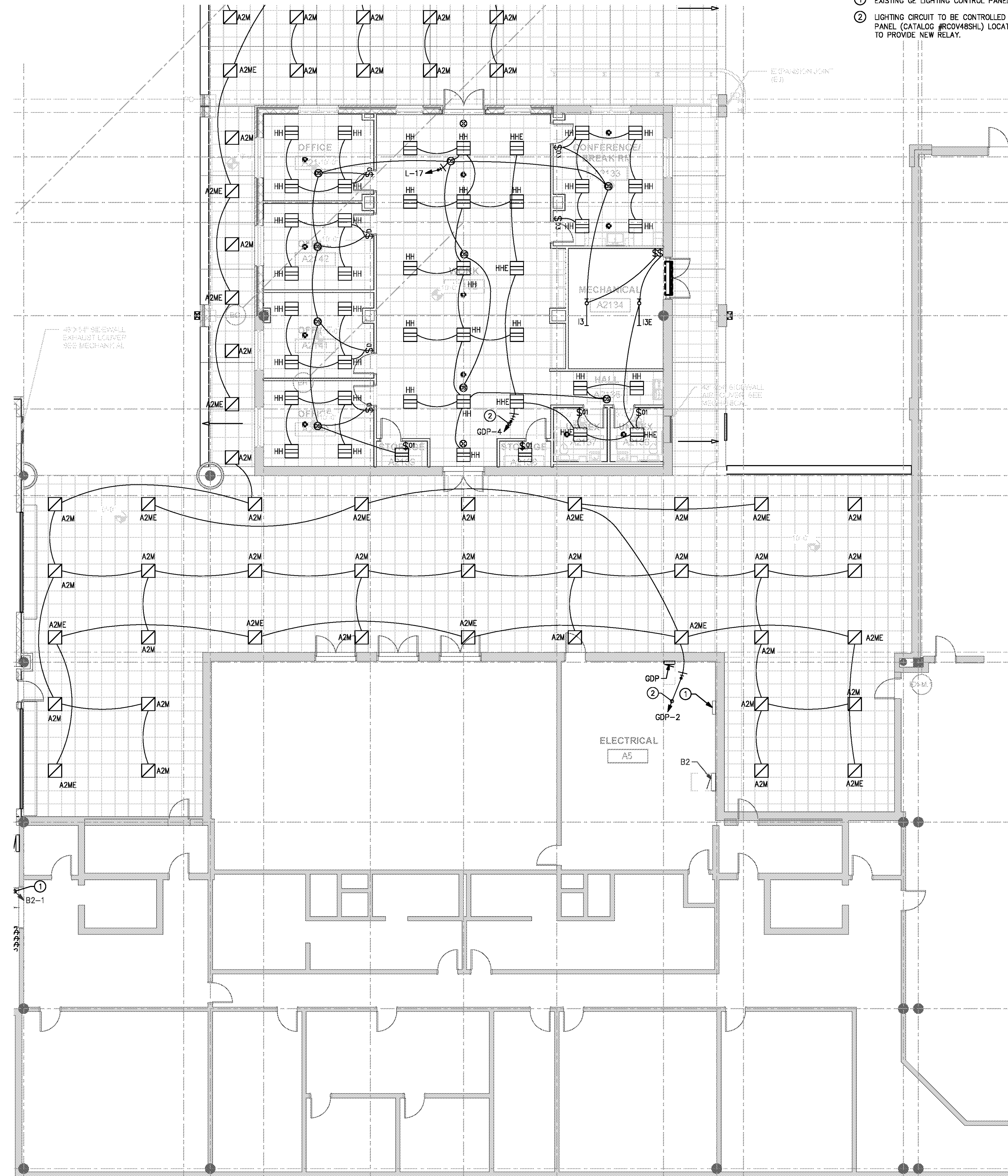
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 SHEET NUMBER

**E2-124**

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
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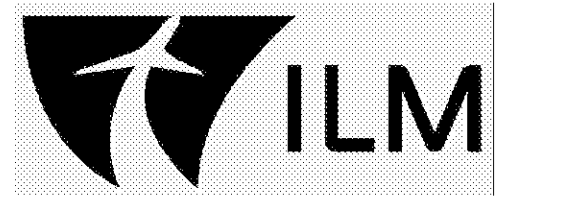
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KEYED NOTES:  
 ① EXISTING GE LIGHTING CONTROL PANEL LOCATION (CATALOG #RC0V48SHL).  
 ② LIGHTING CIRCUIT TO BE CONTROLLED THROUGH EXISTING GE LIGHTING CONTROL PANEL (CATALOG #RC0V48SHL) LOCATED IN ELECTRICAL ROOM AS. CONTRACTOR TO PROVIDE NEW RELAY.



1 SCHEDULE 2 - ELECTRICAL RAMP LEVEL - LIGHTING PLAN - ZONE 5  
 SCALE: 1/8" = 1'-0"

GRAPHIC SCALE: 1"=1'-0"  
 0 2 4 8 16  
 TRUE NORTH

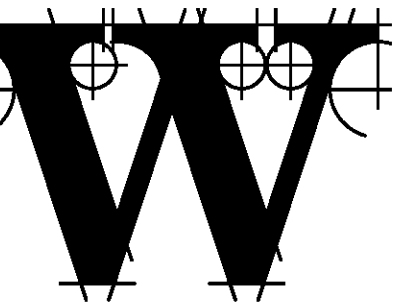
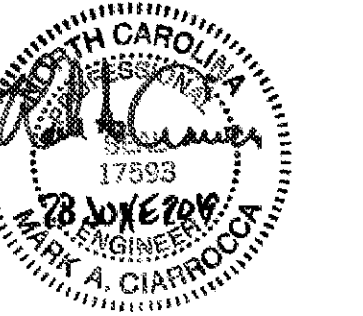


**TERMINAL IMPROVEMENTS CONTRACT 3**

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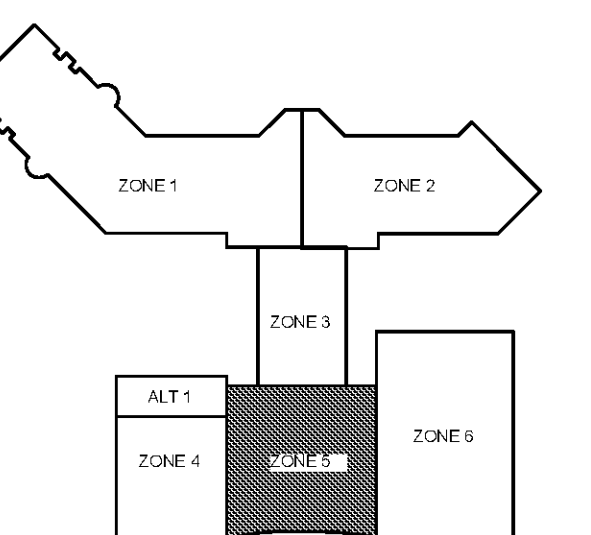
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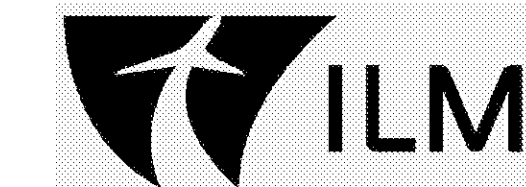
REVISIONS

DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE

**SCHEDULE 2 - ELECTRICAL RAMP LEVEL LIGHTING PLAN ZONE 5**  
 SHEET NUMBER

**E2-125**

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
 • SEE ARCHITECTURAL PLANS A-01\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.  
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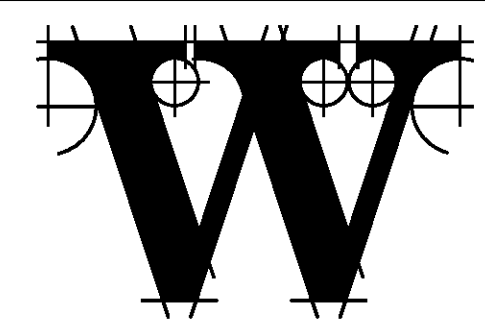
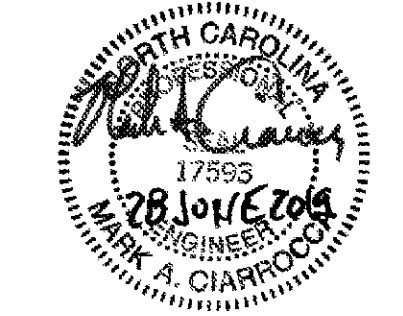


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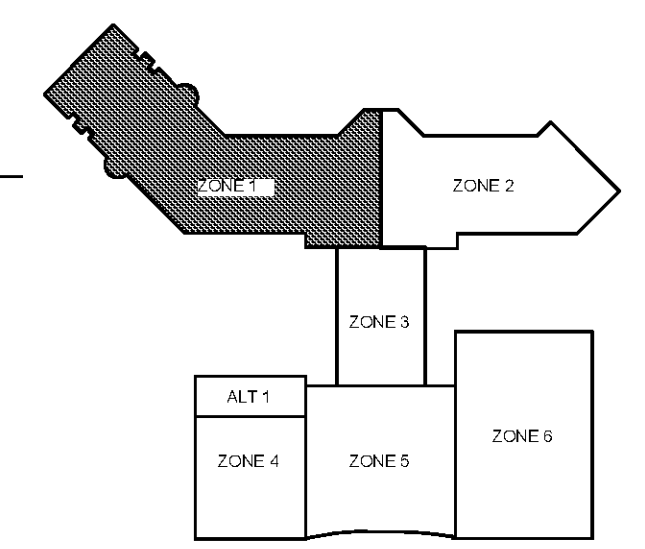
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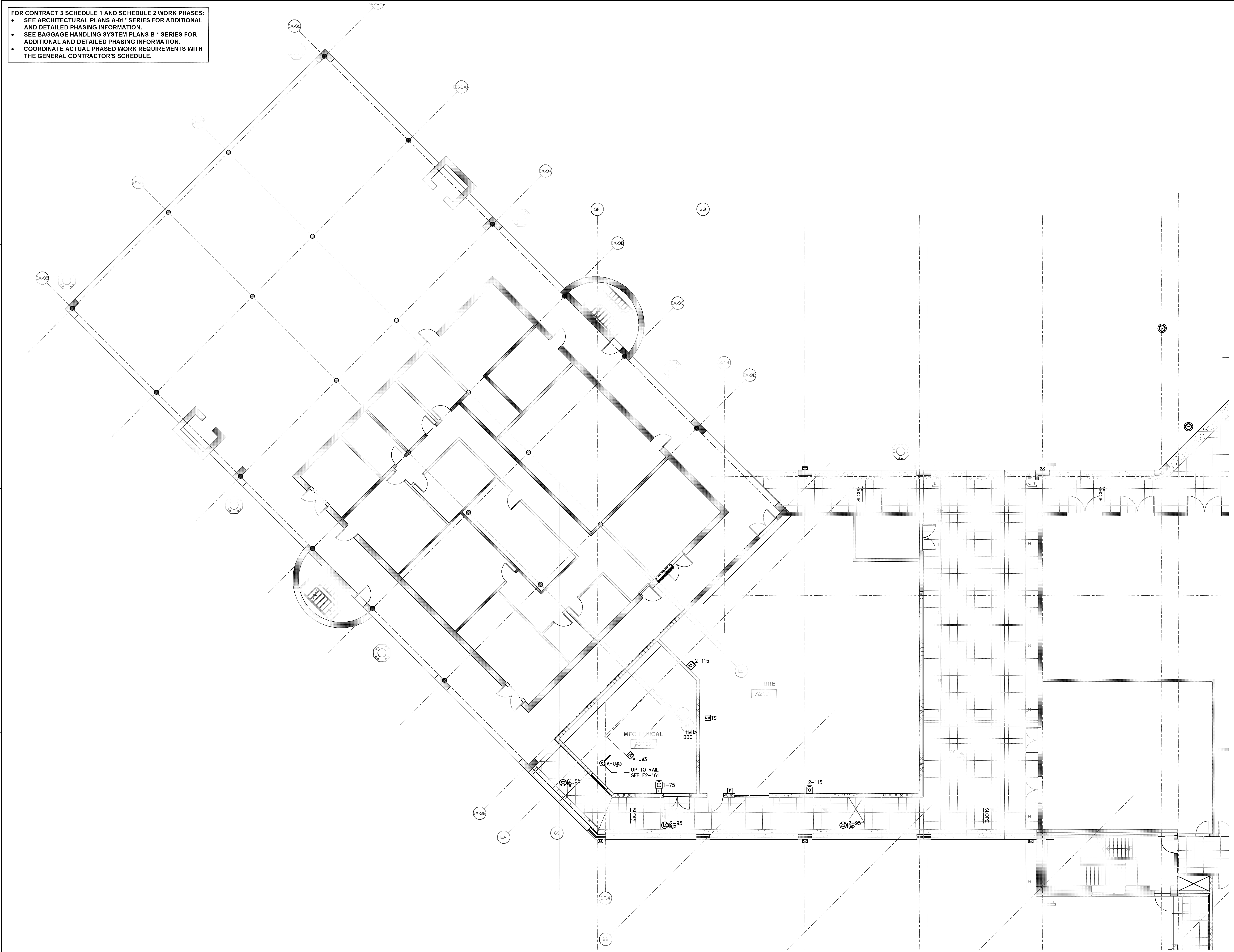
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DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE

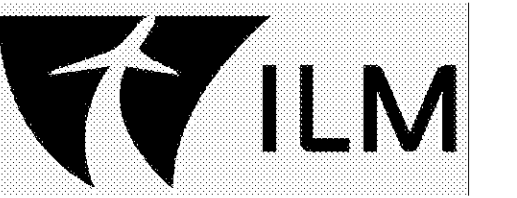
**SCHEDULE 2 - ELECTRICAL RAMP LEVEL AUXILIARY SYSTEMS PLAN ZONE 1**  
 SHEET NUMBER

**E2-131**



**SCHEDULE 2 - ELECTRICAL RAMP LEVEL - AUXILIARY SYSTEMS PLAN - ZONE 1**  
 SCALE: 1/8" = 1'-0" GRAPHIC SCALE: 1" = 1'-0" TRUE NORTH

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
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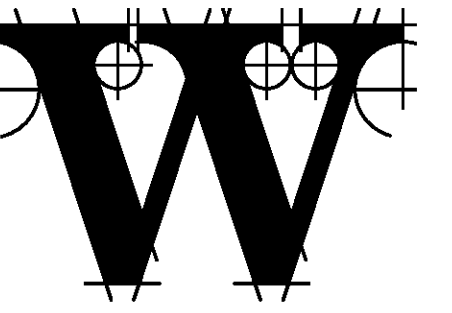
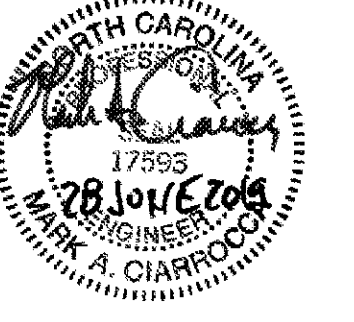


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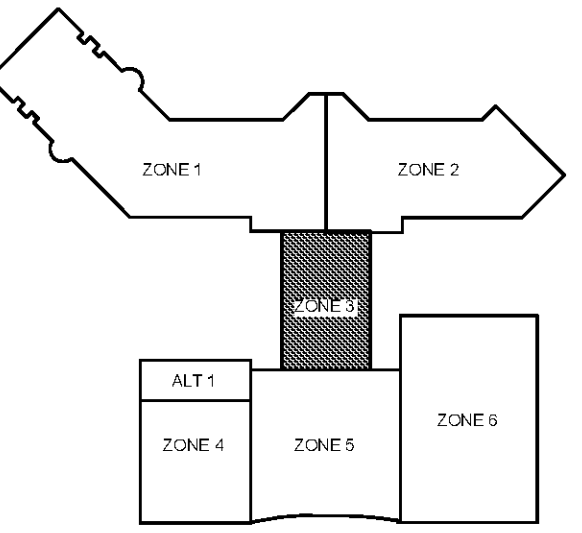
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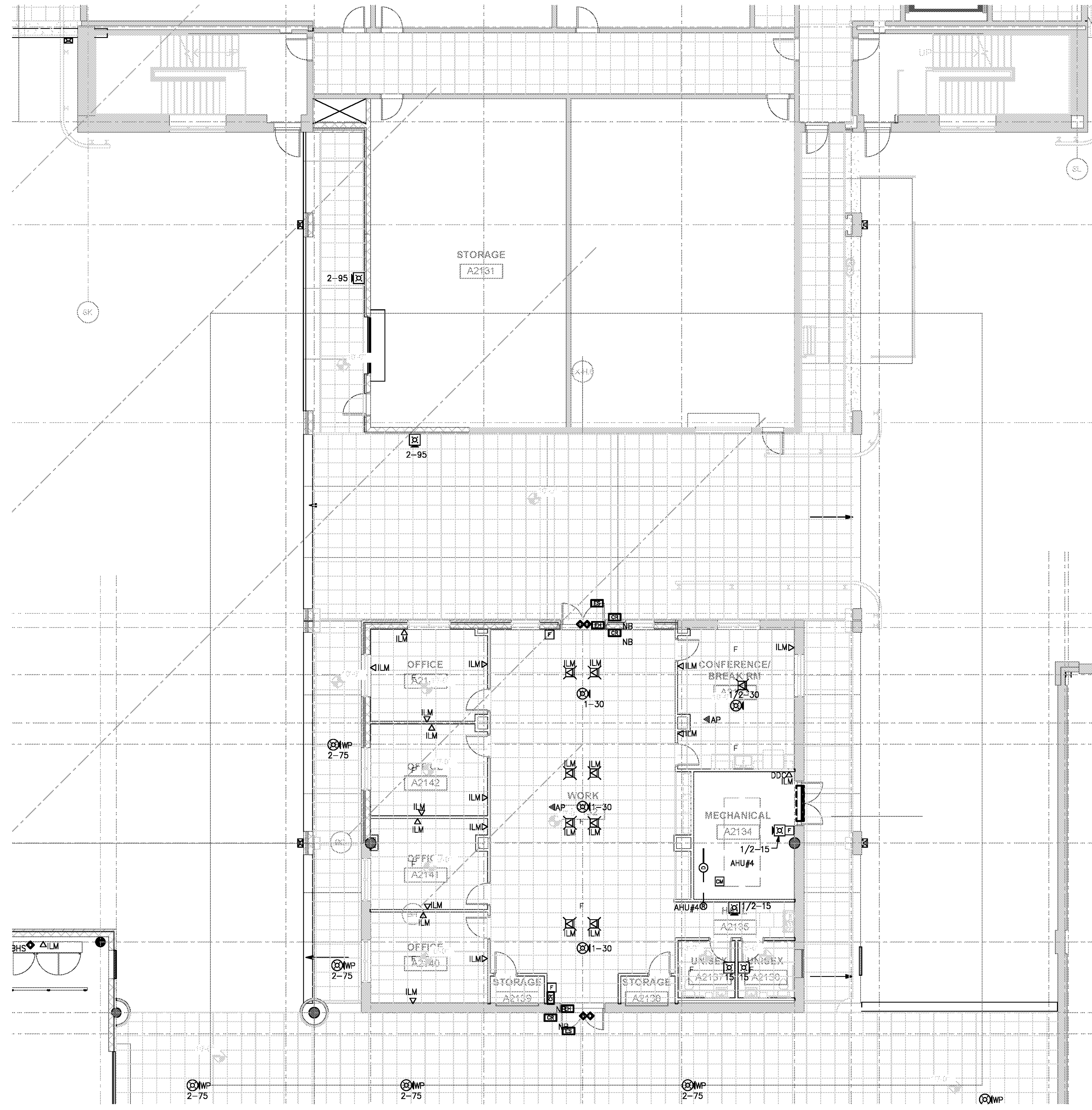


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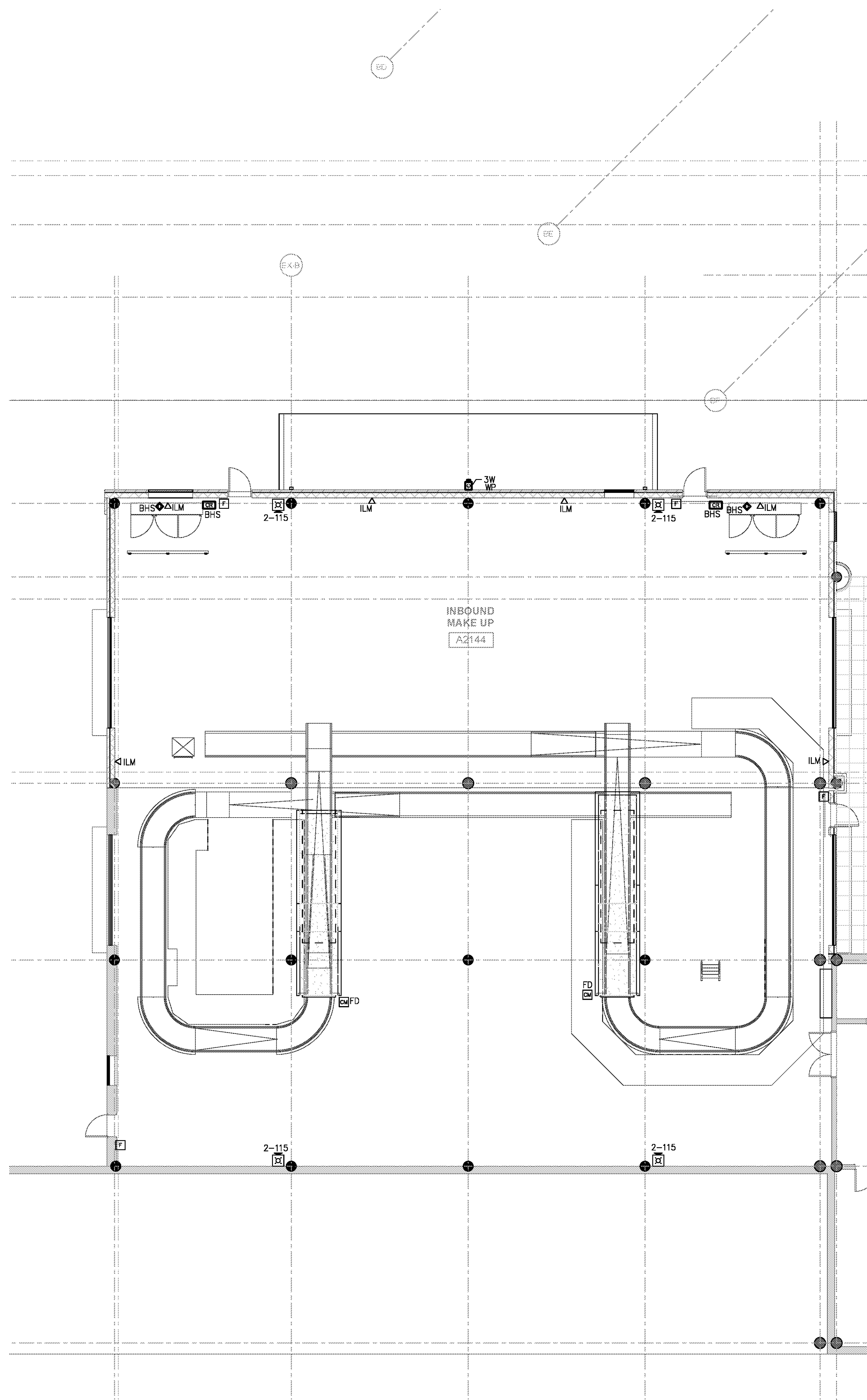
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 SCALE: 1/8" = 1'-0" GRAPHIC SCALE: 1" = 1'-0"

DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE

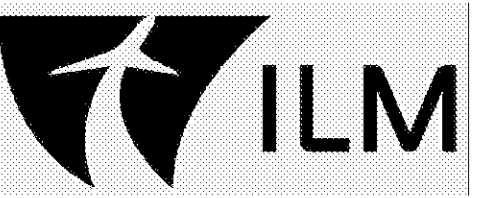
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 SHEET NUMBER

**E2-133**

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
 • SEE ARCHITECTURAL PLANS A-01\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.  
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1 SCHEDULE 2 - ELECTRICAL RAMP LEVEL - AUXILIARY SYSTEMS PLAN - ZONE 4 GRAPHIC SCALE: 1/8" = 1'-0" TRUE NORTH

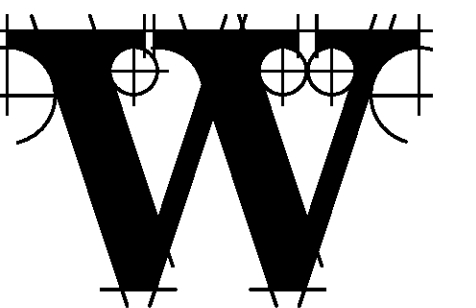
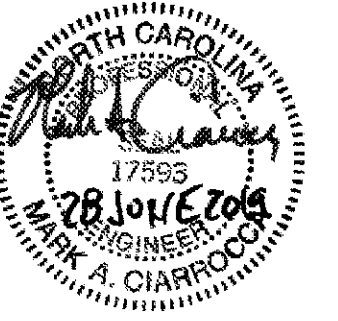


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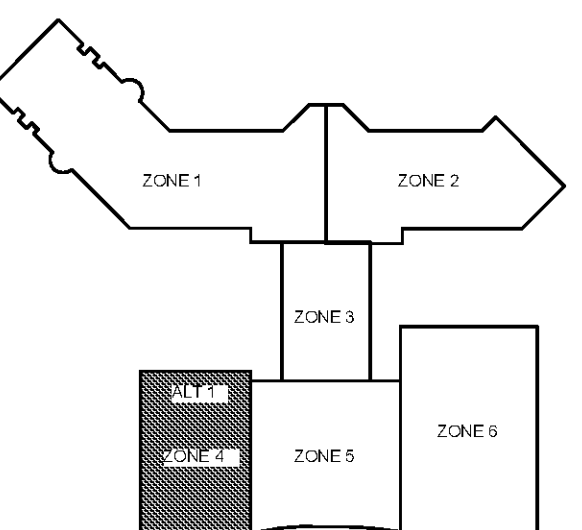
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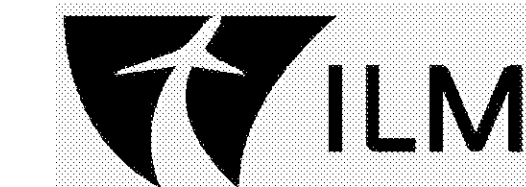
**REVISIONS**

DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE

**SCHEDULE 2 - ELECTRICAL RAMP LEVEL AUXILIARY SYSTEMS PLAN ZONE 4 - ALTERNATE 1**  
 SHEET NUMBER

**E2-134**

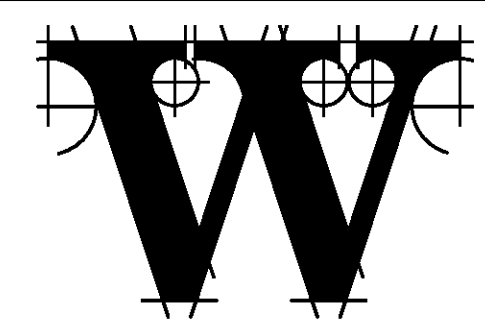
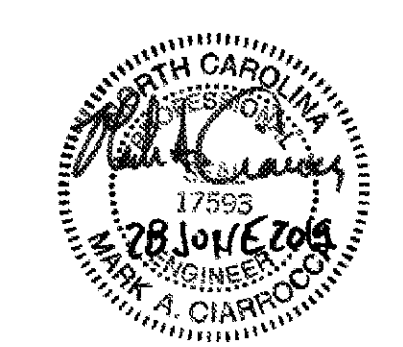
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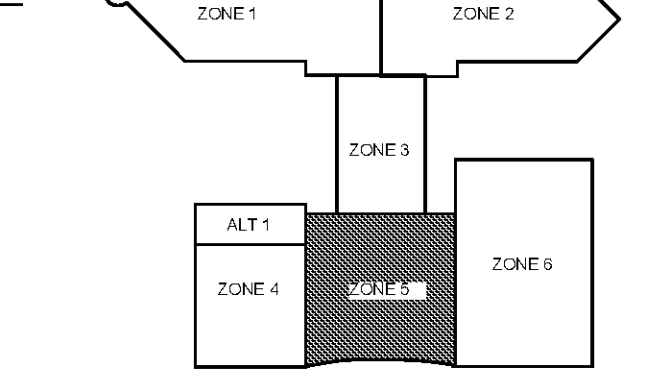
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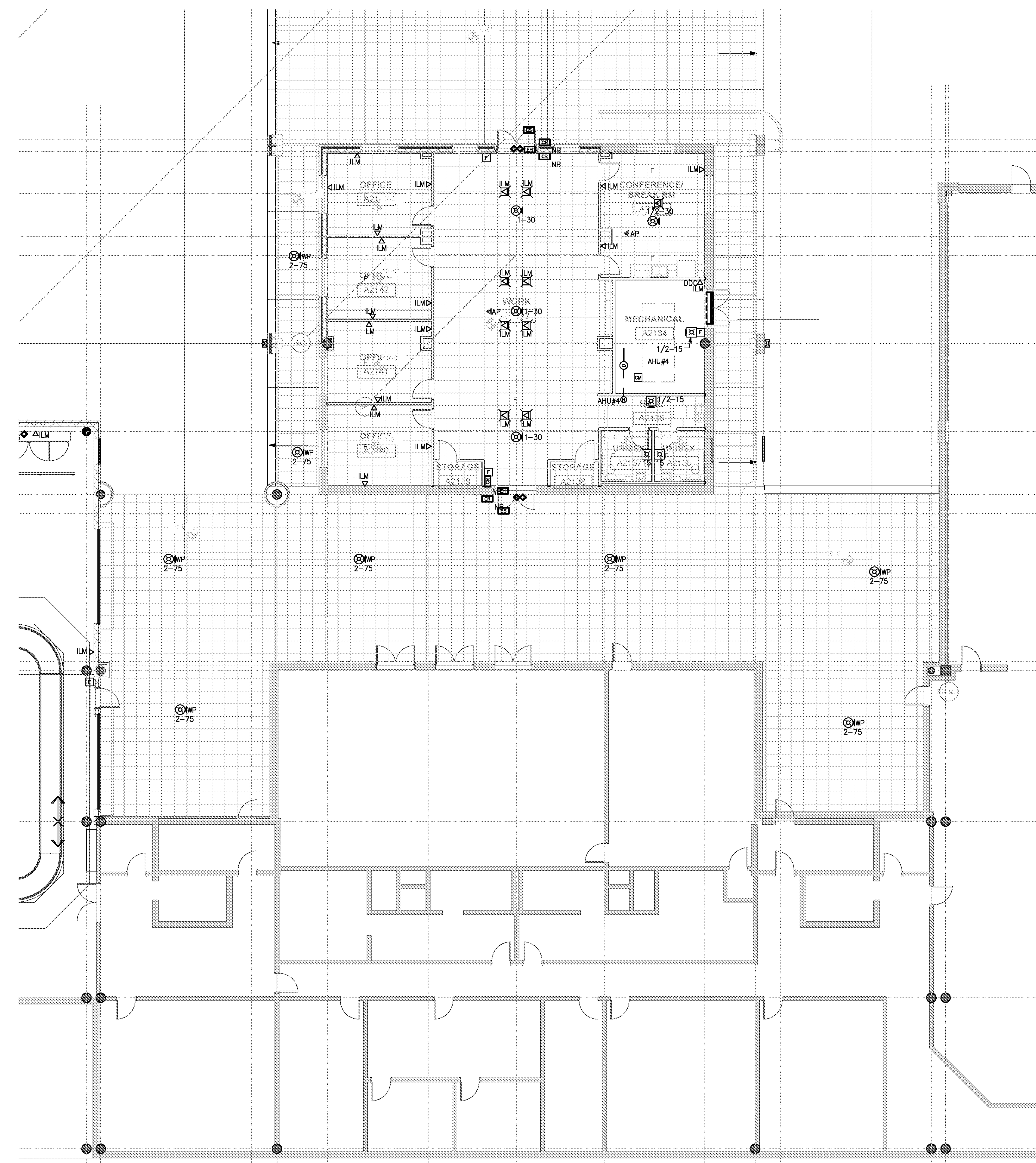
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DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE

**SCHEDULE 2 - ELECTRICAL RAMP LEVEL AUXILIARY SYSTEMS PLAN ZONE 5**  
 SHEET NUMBER

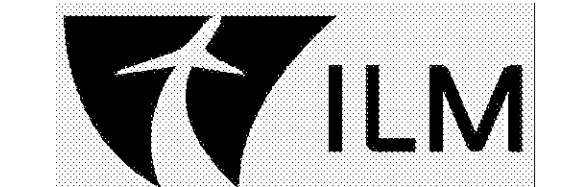
**E2-135**



**SCHEDULE 2 - ELECTRICAL RAMP LEVEL - AUXILIARY SYSTEMS PLAN - ZONE 5**  
 SCALE: 1/8" = 1'-0" GRAPHIC SCALE: 1" = 1'-0" TRUE NORTH



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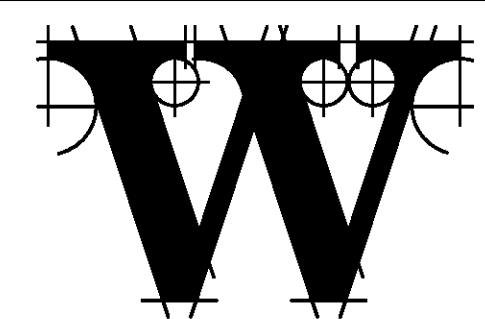
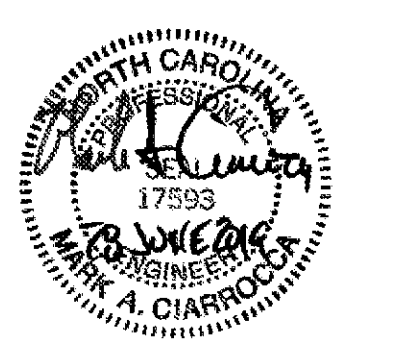


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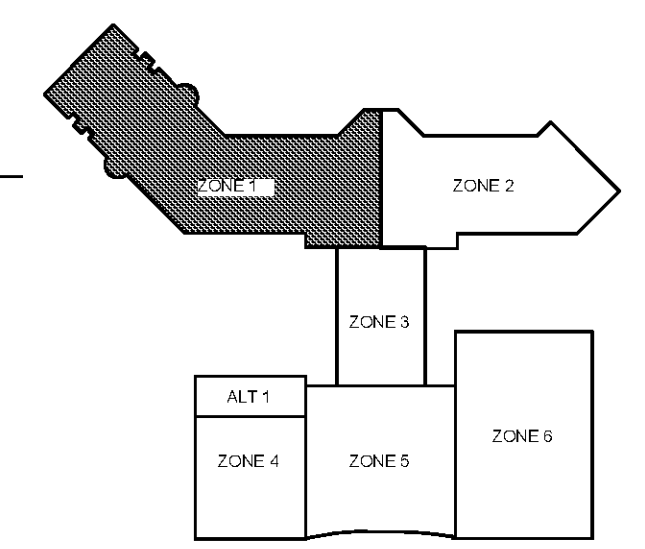
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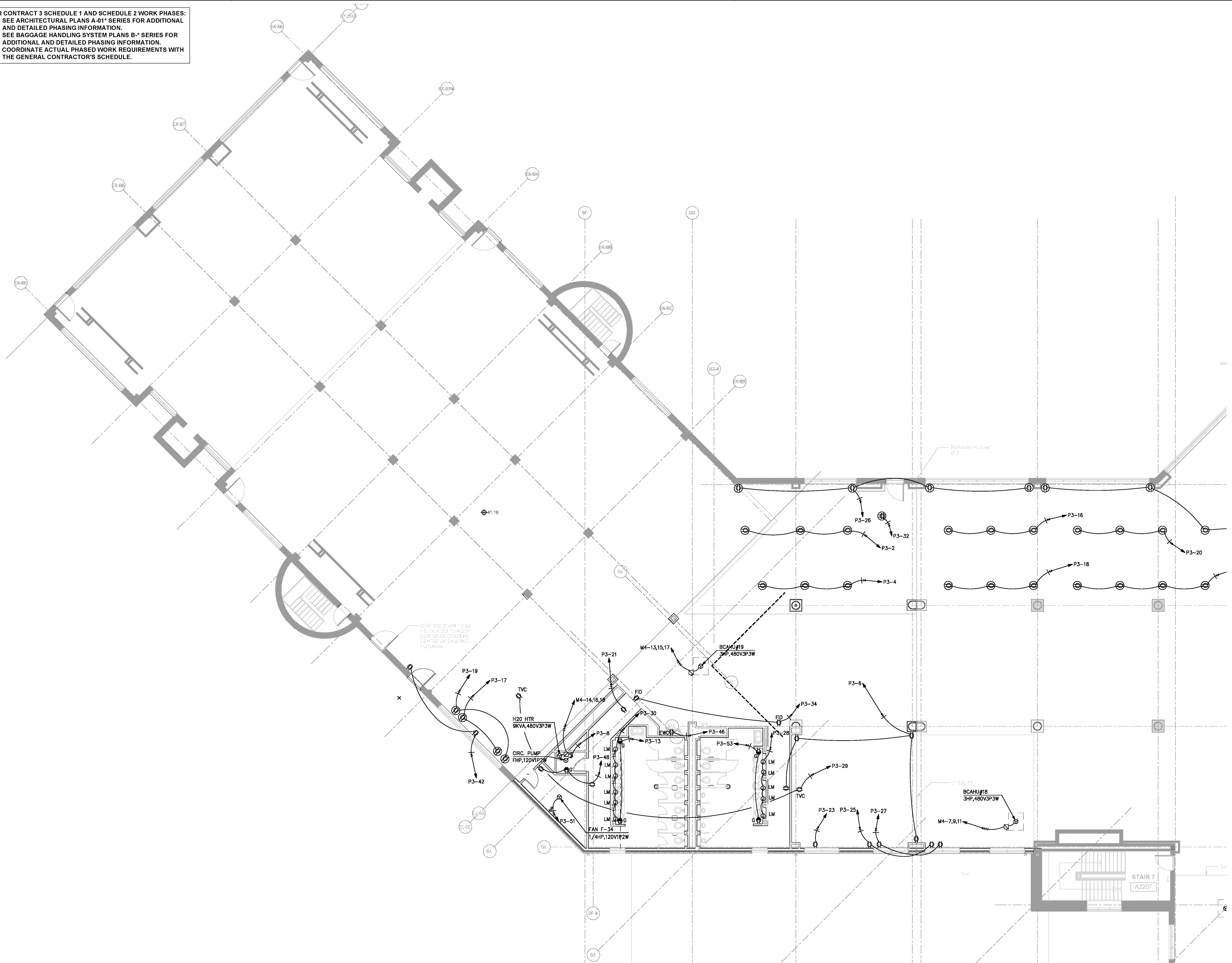
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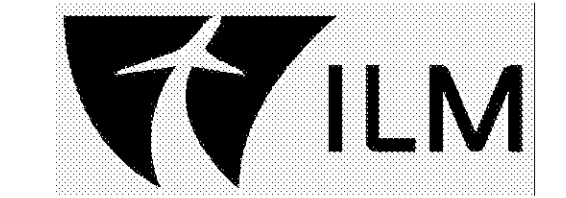
DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE

**SCHEDULE 2 - ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 1**  
 SHEET NUMBER

**E2-141**



FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
 • SEE ARCHITECTURAL PLANS A-01\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.  
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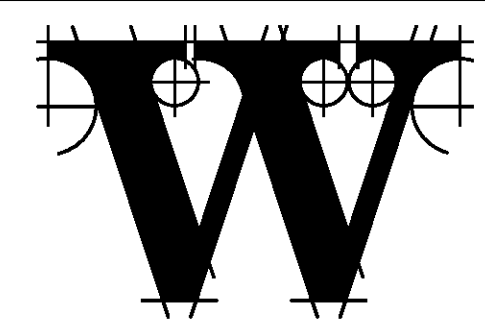
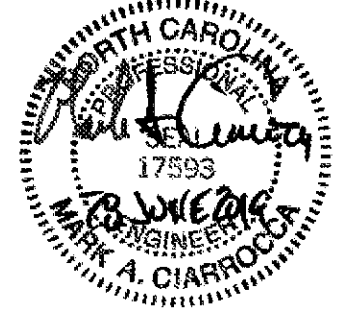


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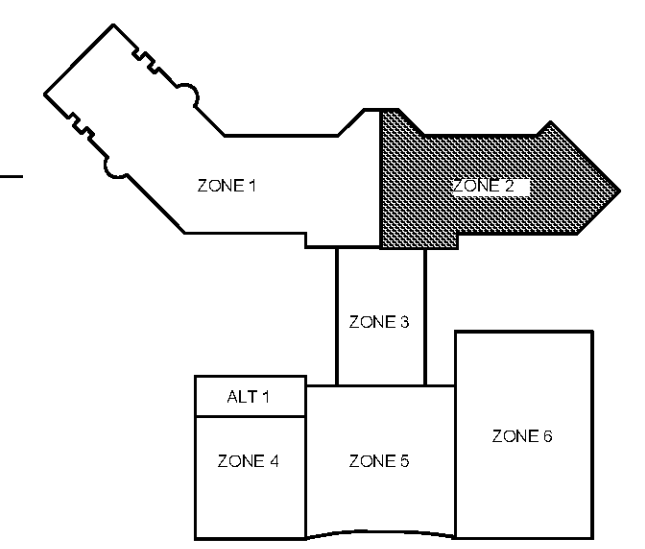
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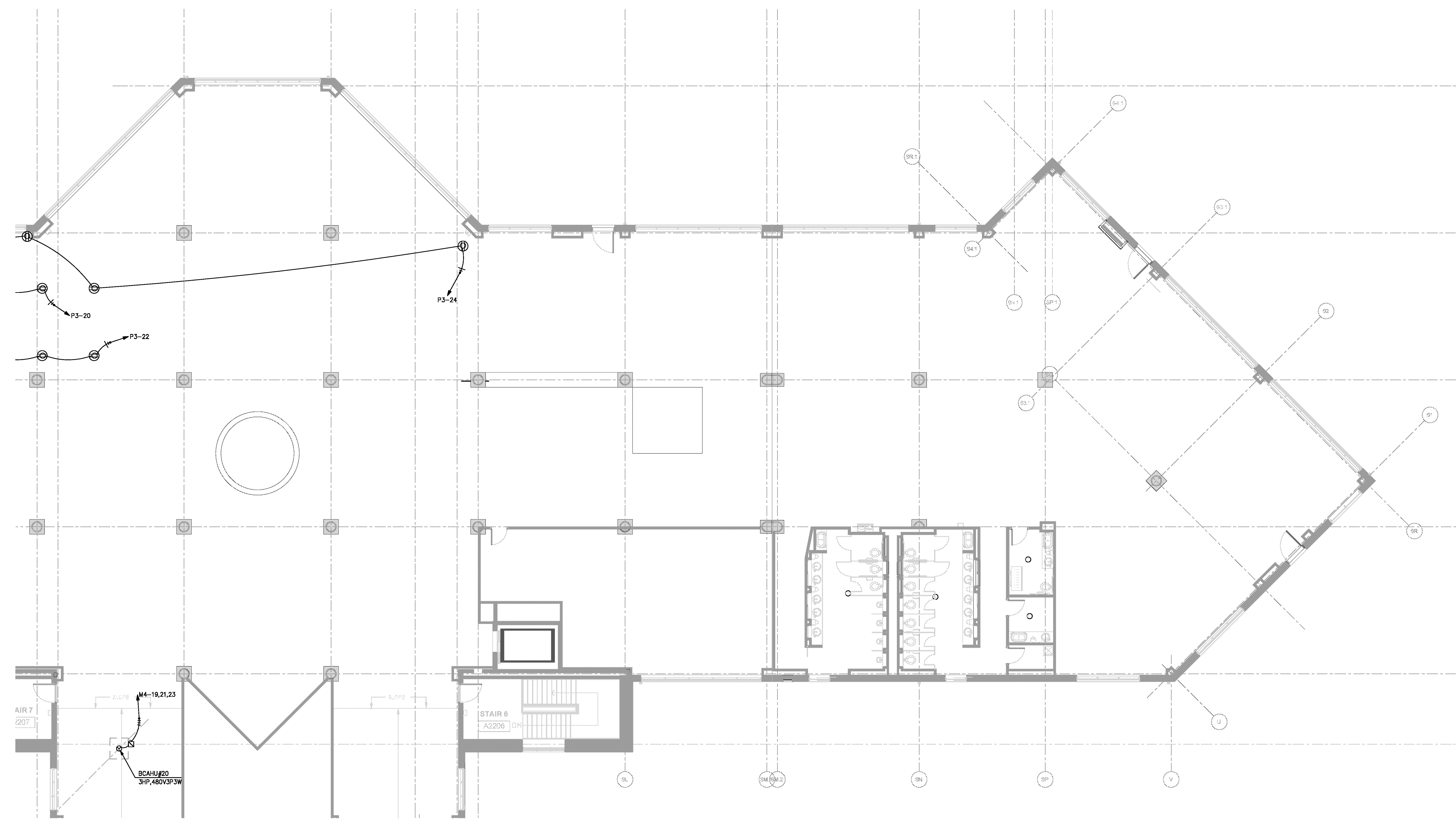
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**SCHEDULE 2 - ELECTRICAL BOARDING LEVEL - POWER PLAN - ZONE 2**  
 SHEET NUMBER

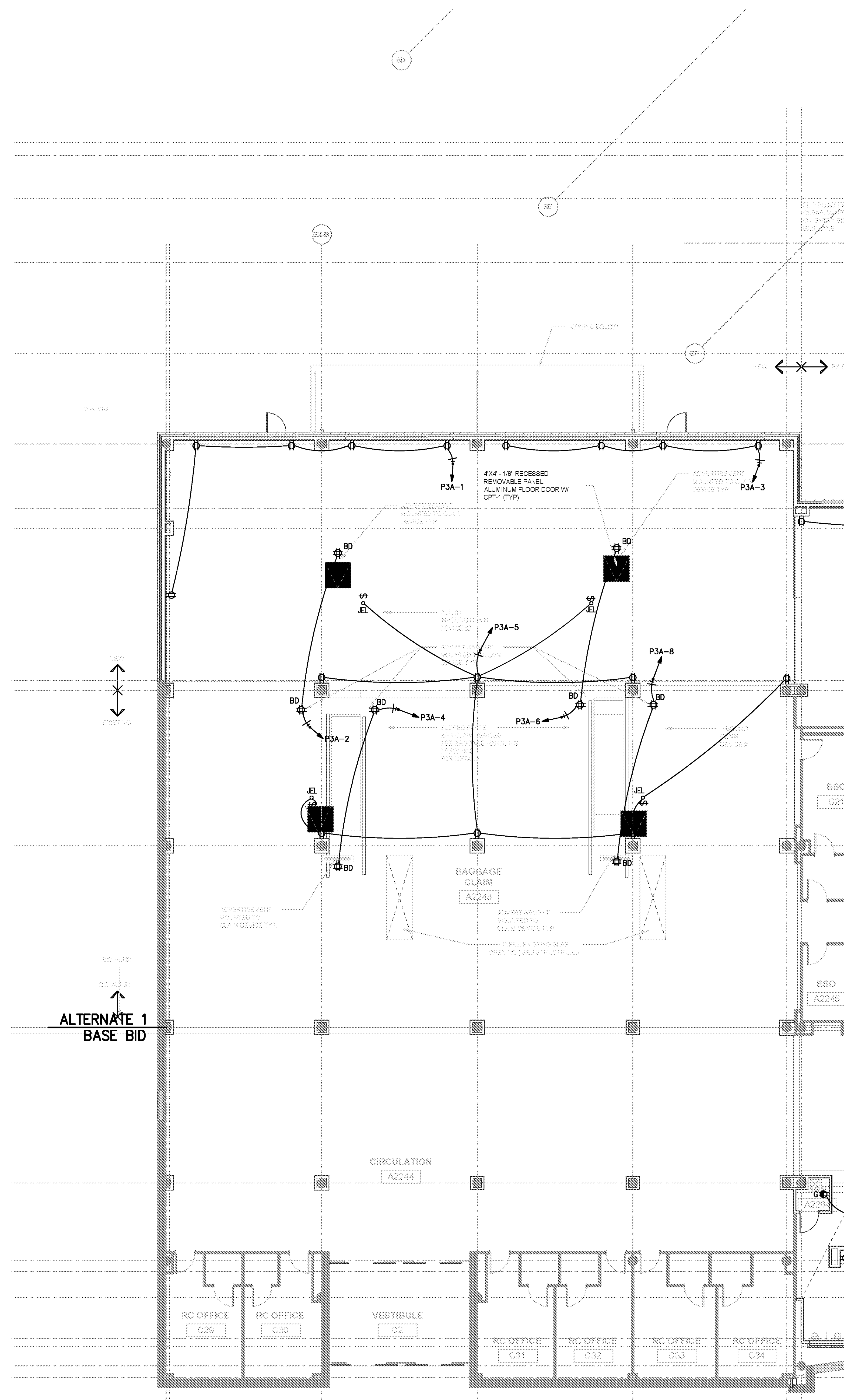
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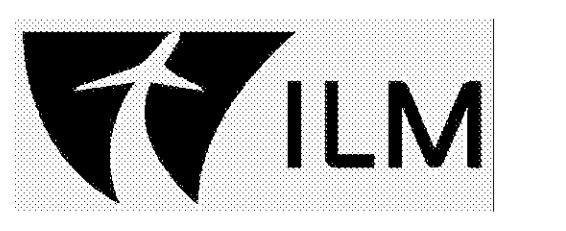
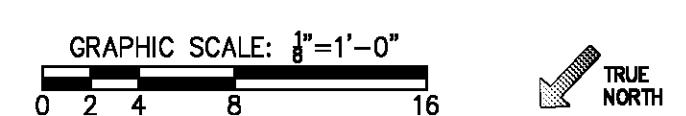
**SCHEDULE 2 - ELECTRICAL BOARDING LEVEL - POWER PLAN - ZONE 2**  
 SCALE: 1/8" = 1'-0"  
 GRAPHIC SCALE: 1" = 1'-0"  
 TRUE NORTH



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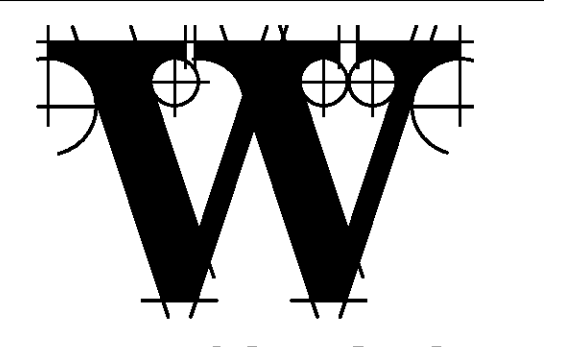
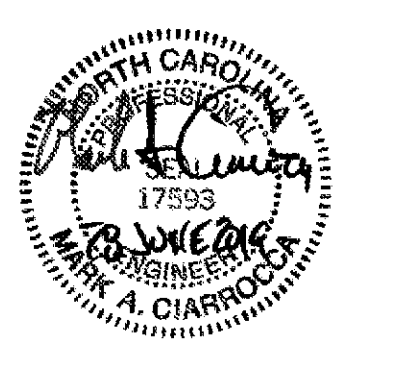


1 SCHEDULE 2 - ELECTRICAL BOARDING LEVEL - POWER PLAN - ZONE  
 SCALE: 1/8" = 1'-0"



**TERMINAL IMPROVEMENTS CONTRACT 3**  
 Wilmington International Airport  
 1740 Airport Boulevard, Suite 12  
 Wilmington, NC 28405

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 PHONE: (910) 452-4210  
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 NC LICENSE# C-1073  
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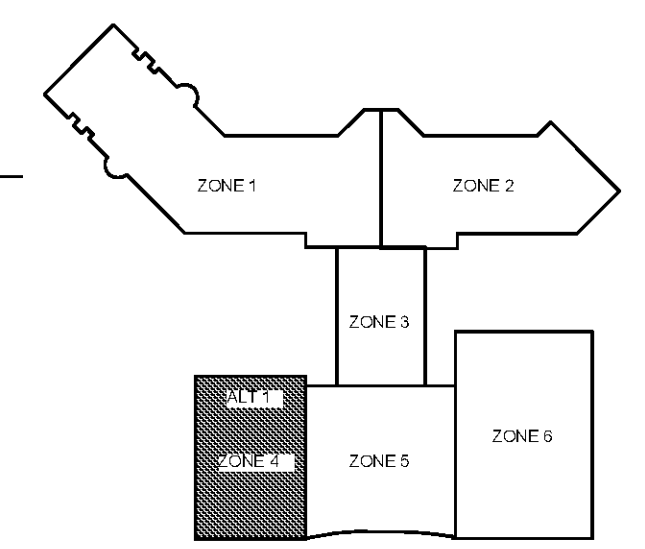
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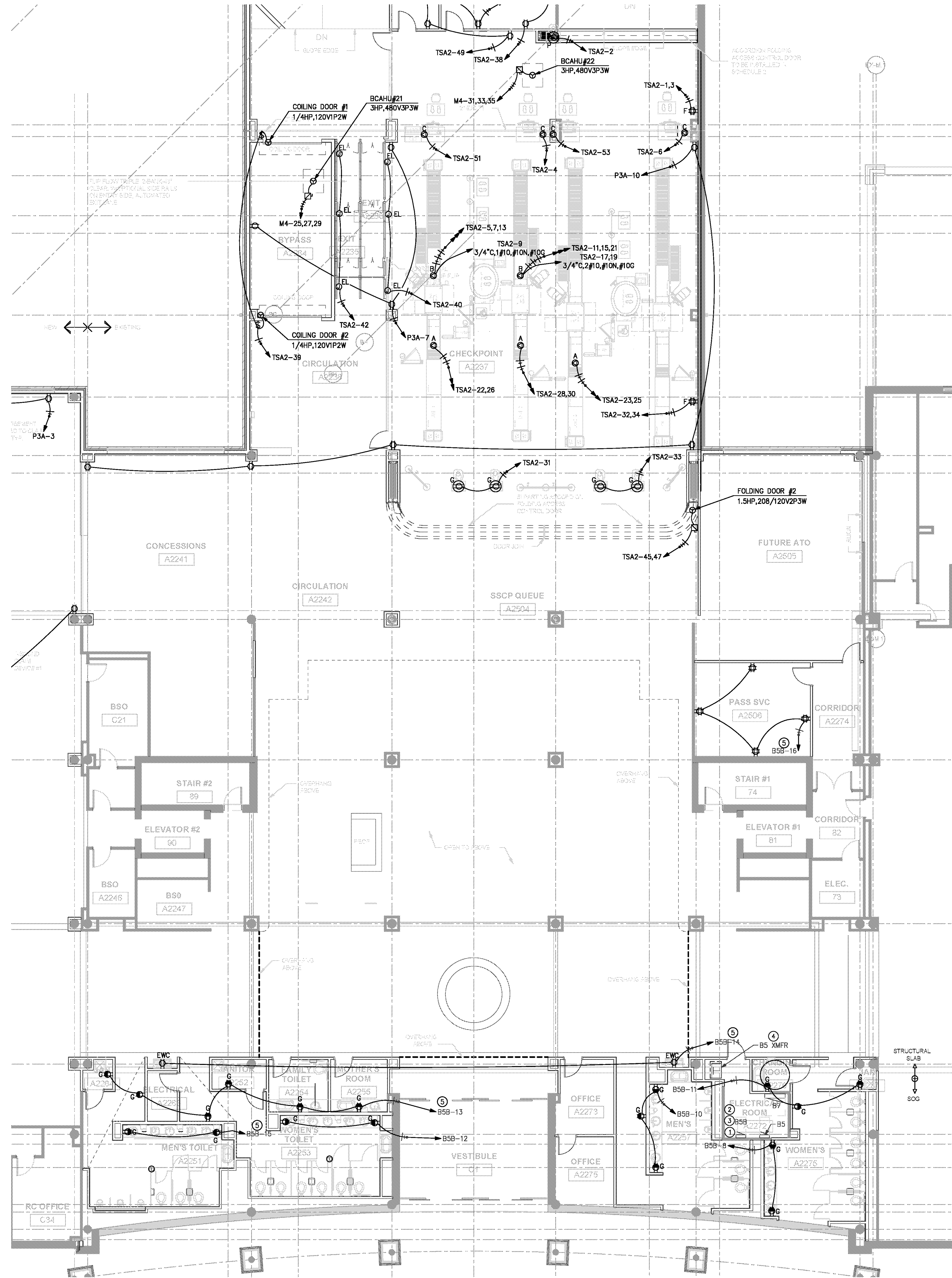
DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE

**SCHEDULE 2 - ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 4**  
 SHEET NUMBER

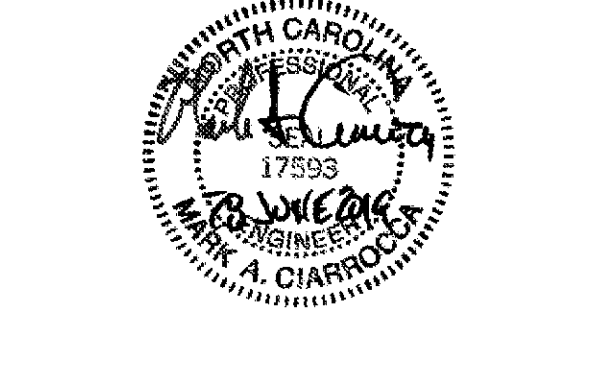
**E2-144**

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:

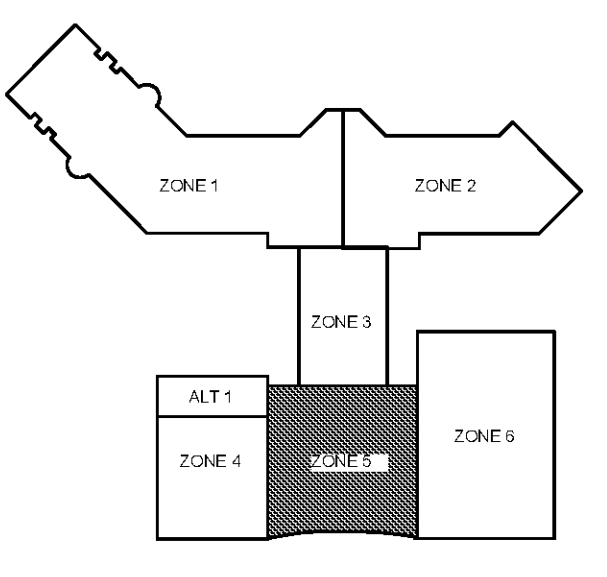
- SEE ARCHITECTURAL PLANS A-01\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.
- SEE BAGGAGE HANDLING SYSTEM PLANS B-\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.
- COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.



- KEYED NOTES:
- 1 EXISTING PANEL B5B, MANUFACTURED BY GE (A SERIES TYPE).
  - 2 EXISTING CIRCUIT BREAKERS AVAILABLE IN PANEL B5B.
  - 3 PROVIDE (1) 20A/1P CIRCUIT BREAKER (GFCI TYPE) FOR LOAD INDICATED (CIRCUIT #14).
  - 4 RELOCATED TRANSFORMER B5. INSTALL NEW CIRCUITRY TO PRIMARY AND SECONDARY SIDE OF TRANSFORMER. SEE RISER FOR CIRCUITRY INFORMATION.
  - 5 PROVIDE 20A/1P CIRCUIT BREAKER FOR PANEL INDICATED.



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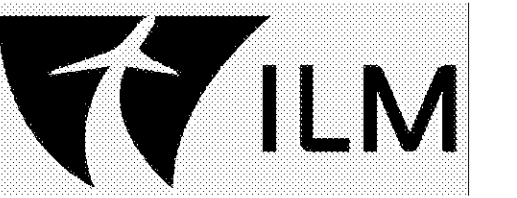
REVISIONS

DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE  
**SCHEDULE 2 - ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 5**  
 SHEET NUMBER  
**E2-145**

**SCHEDULE 2 - ELECTRICAL BOARDING LEVEL - POWER PLAN - ZONE 5**  
 SCALE: 1/8" = 1'-0" GRAPHIC SCALE: 1" = 1'-0" TRUE NORTH

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:

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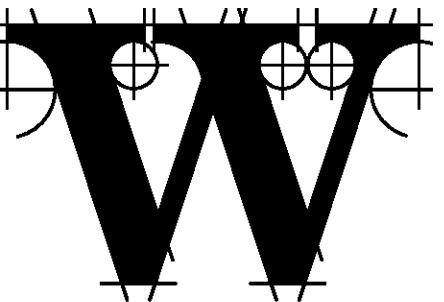
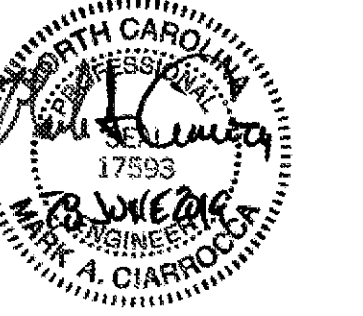


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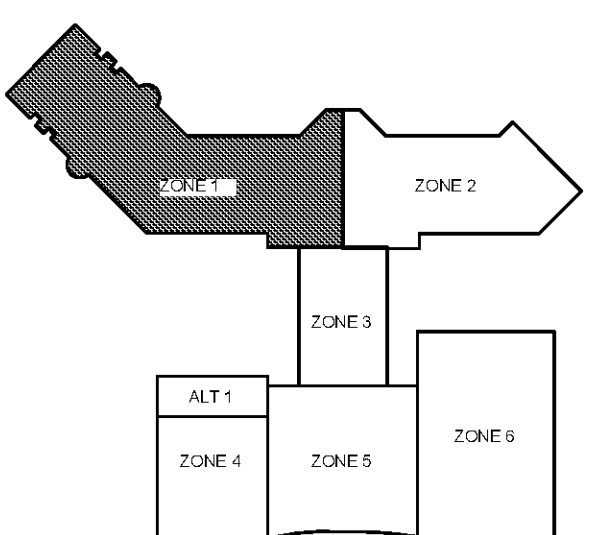
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DATE 06/28/19  
PROJECT NUMBER 9202-000  
SHEET TITLE

**SCHEDULE 2 - ELECTRICAL BOARDING LEVEL LIGHTING PLAN ZONE 1**  
SHEET NUMBER

**E2-151**

**NOTES:**

1. LIGHTING FIXTURE SELECTION AND LAYOUT WERE DESIGNED BY HARTRANFT LIGHTING DESIGN. INCLUSION HERE IS NOT INTENDED TO REPRESENT THAT THE FIXTURE SELECTION AND LAYOUT ARE A WORK PRODUCT OF CHEATHAM & ASSOCIATES, P.A. SEE LUMINAIRE SCHEDULE NOTE 1 FOR WHICH LIGHT FIXTURE TYPES THIS NOTE APPLIES TO.
2. NUMBER NEXT TO LIGHT FIXTURE INDICATES DIMMER SCHEDULED ZONE.

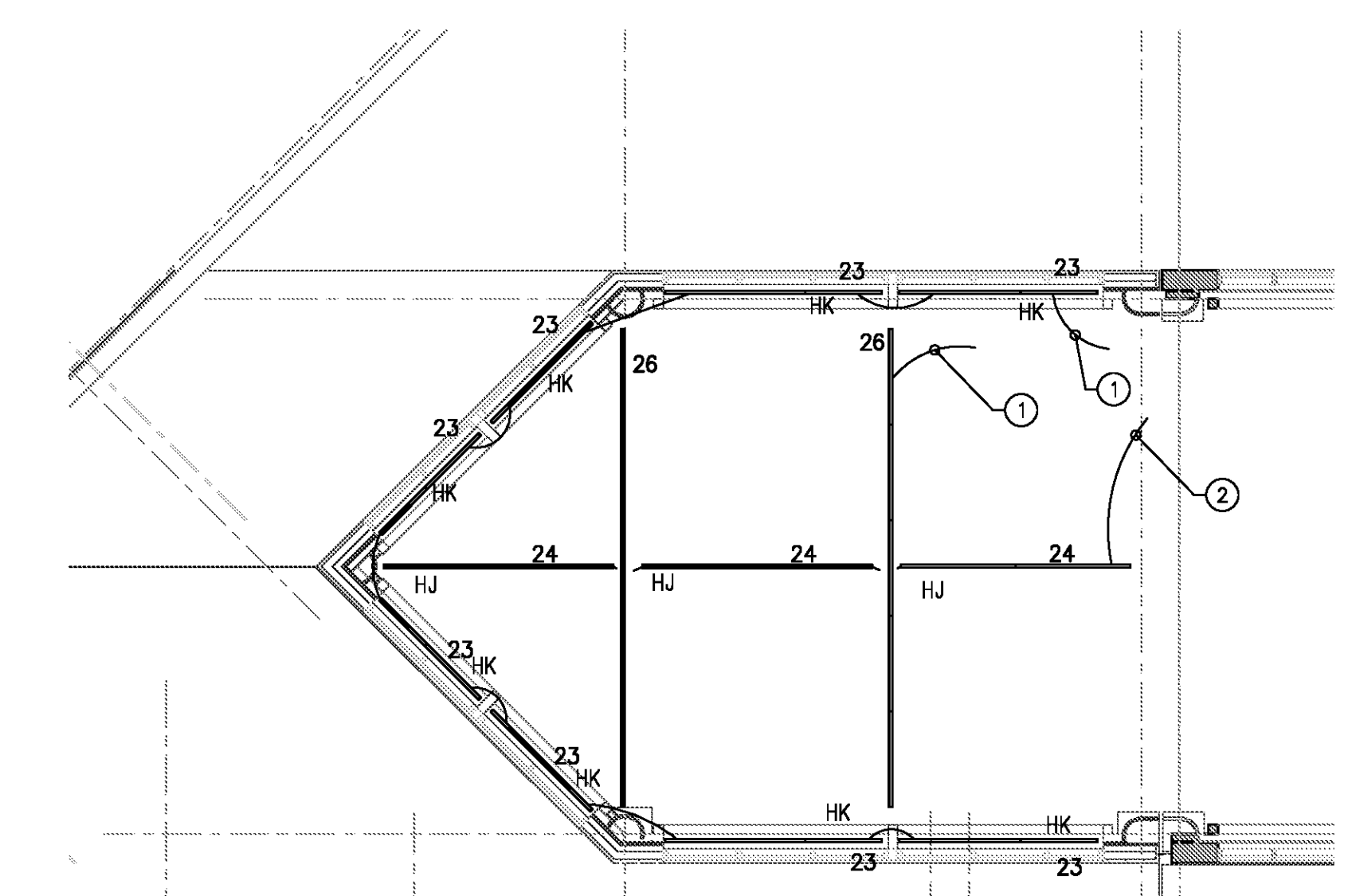
**KEYED NOTES:**

- ① CONNECT TO EXISTING NORMAL CIRCUIT SERVING SPACE.
- ② CONNECT TO EXISTING GENERATOR CIRCUIT SERVING SPACE.

**SCHEDULE 2 - ELECTRICAL CLERESTORY LEVEL - LIGHTING PLAN**

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

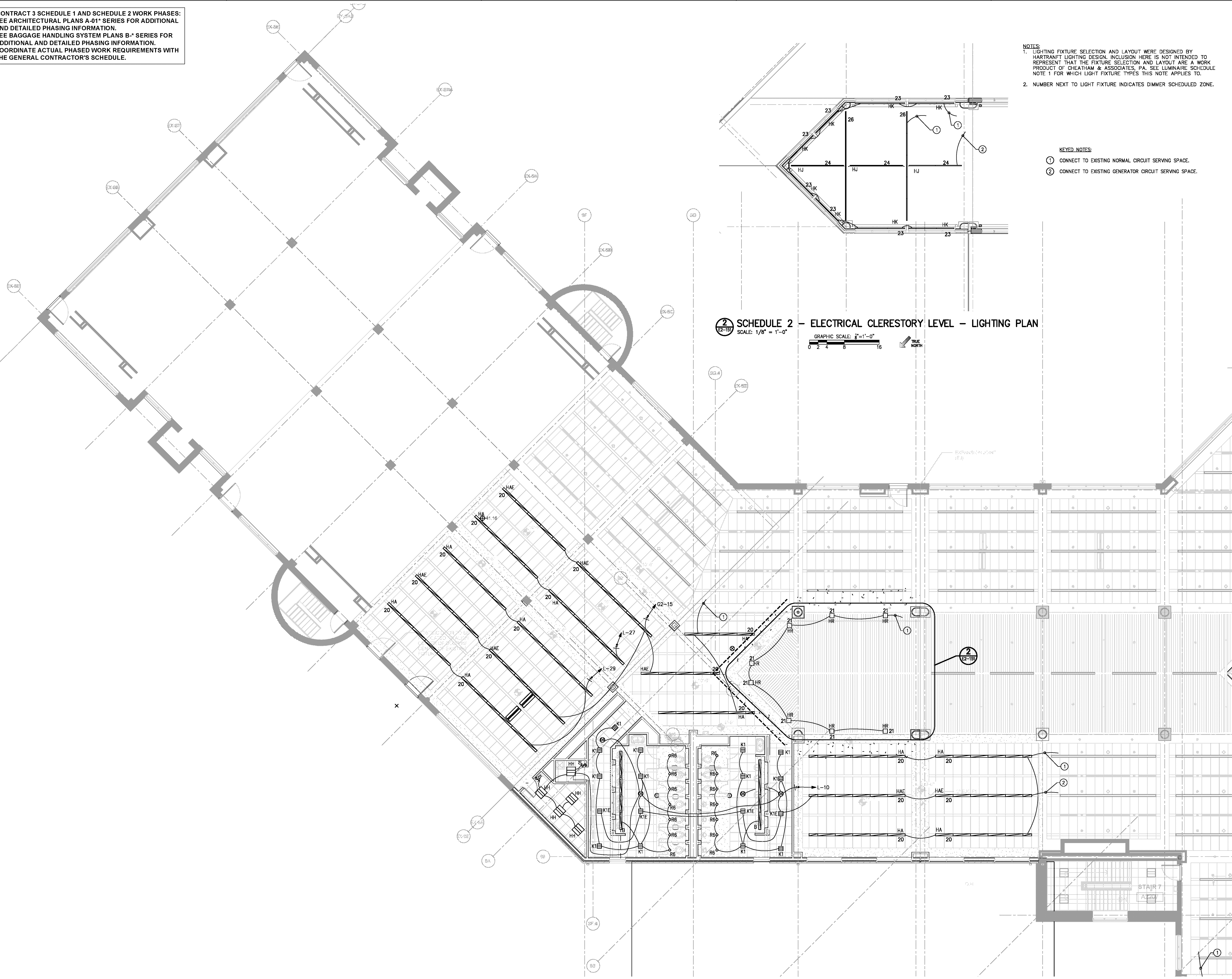
GRAPHIC SCALE: 1" = 1'-0"  
0 2 4 8 16



**SCHEDULE 2 - ELECTRICAL BOARDING LEVEL - LIGHTING PLAN - ZONE 1**

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

GRAPHIC SCALE: 1" = 1'-0"  
0 2 4 8 16

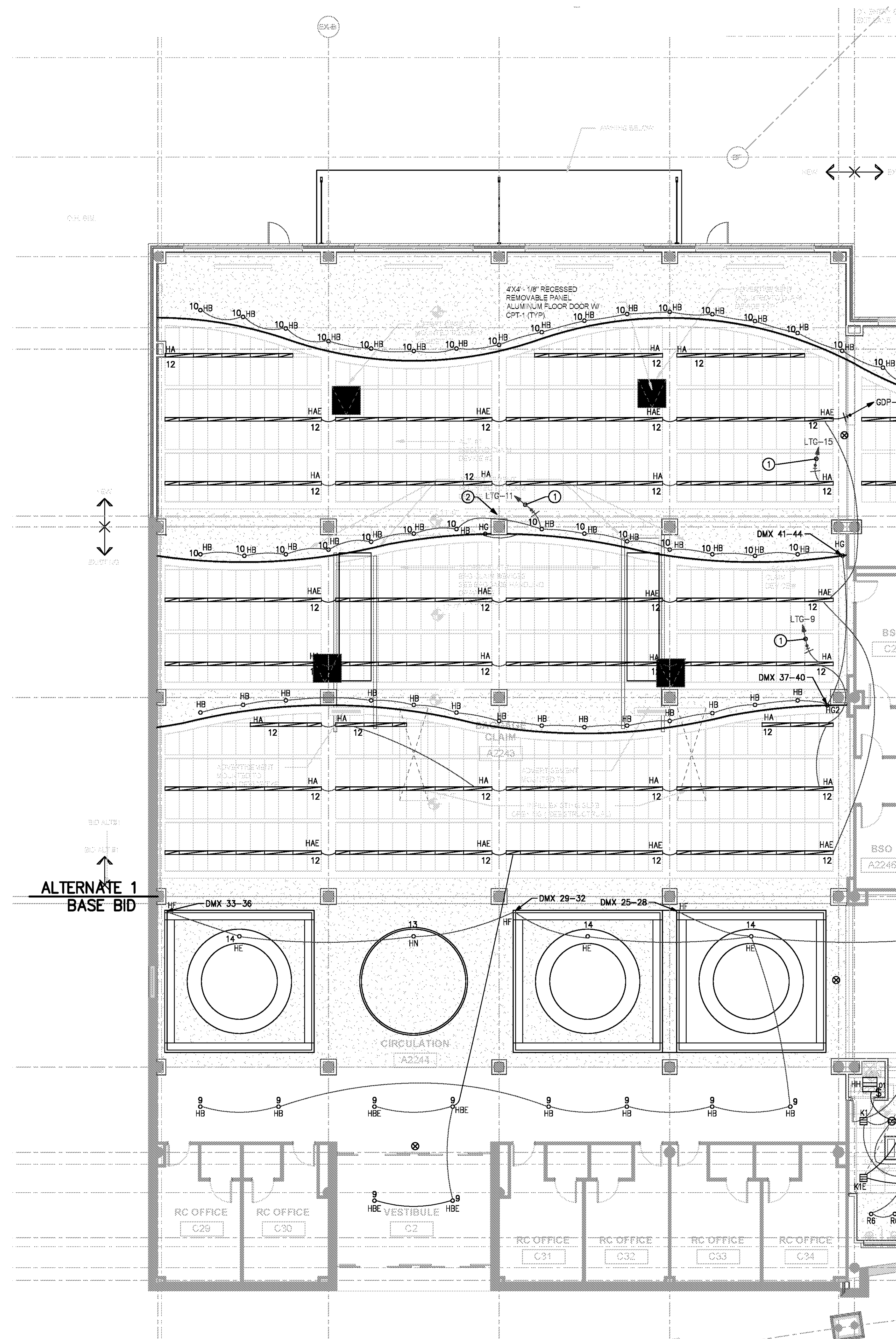




FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
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 • SEE BAGGAGE HANDLING SYSTEM PLANS B-\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.  
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NOTES:  
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 2. NUMBER NEXT TO LIGHT FIXTURE INDICATES DIMMER SCHEDULED ZONE. SEE E2-156.

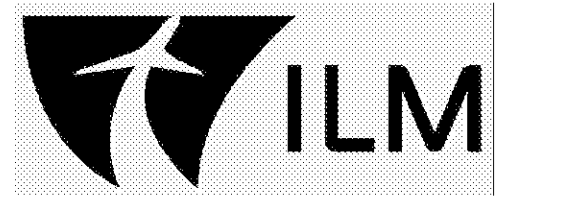
KEYED NOTES:  
 ① #10 CONDUCTORS USED FOR BRANCH CIRCUIT INDICATED.  
 ② PROPOSED LOCATION OF LIGHTING CIRCUIT HOMERUNS TO TRANSITION FROM ABOVE CEILING TO BELOW SLAB FOR CONTINUATION OF HOMERUNS IN RAMP LEVEL CEILING CAVITY TO PANEL LTG LOCATED IN EXISTING TICKETING AREA MECHANICAL ROOM 34. SEE E2-155 FOR LOCATION OF PANEL LTG.



ALTERNATE 1  
 BASE BID

① SCHEDULE 2 - ELECTRICAL BOARDING LEVEL - LIGHTING PLAN - ZONE 4  
 SCALE: 1/8" = 1'-0"

GRAPHIC SCALE: 1"=1'-0"  
 0 2 4 8 16  
 TRUE NORTH

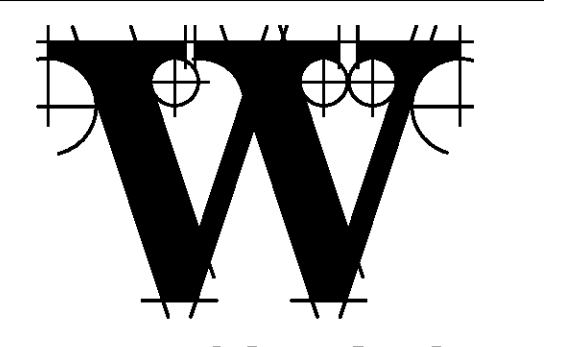
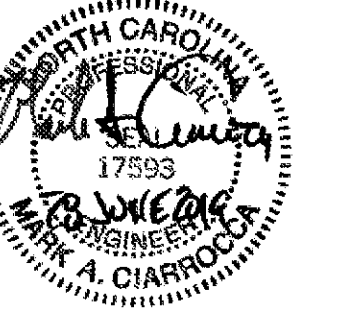


TERMINAL  
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 CONTRACT 3

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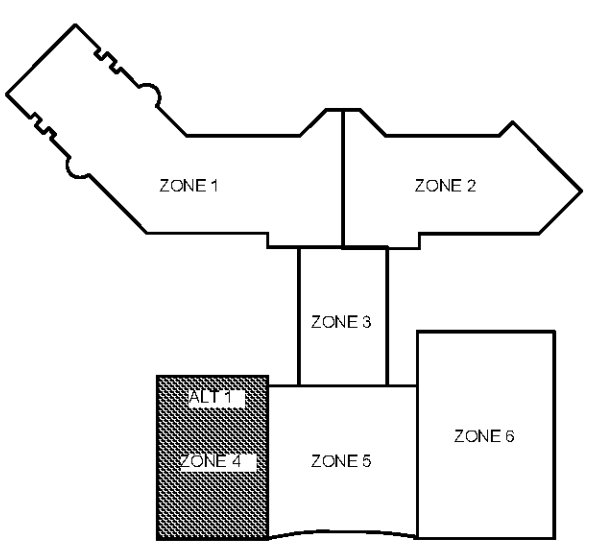
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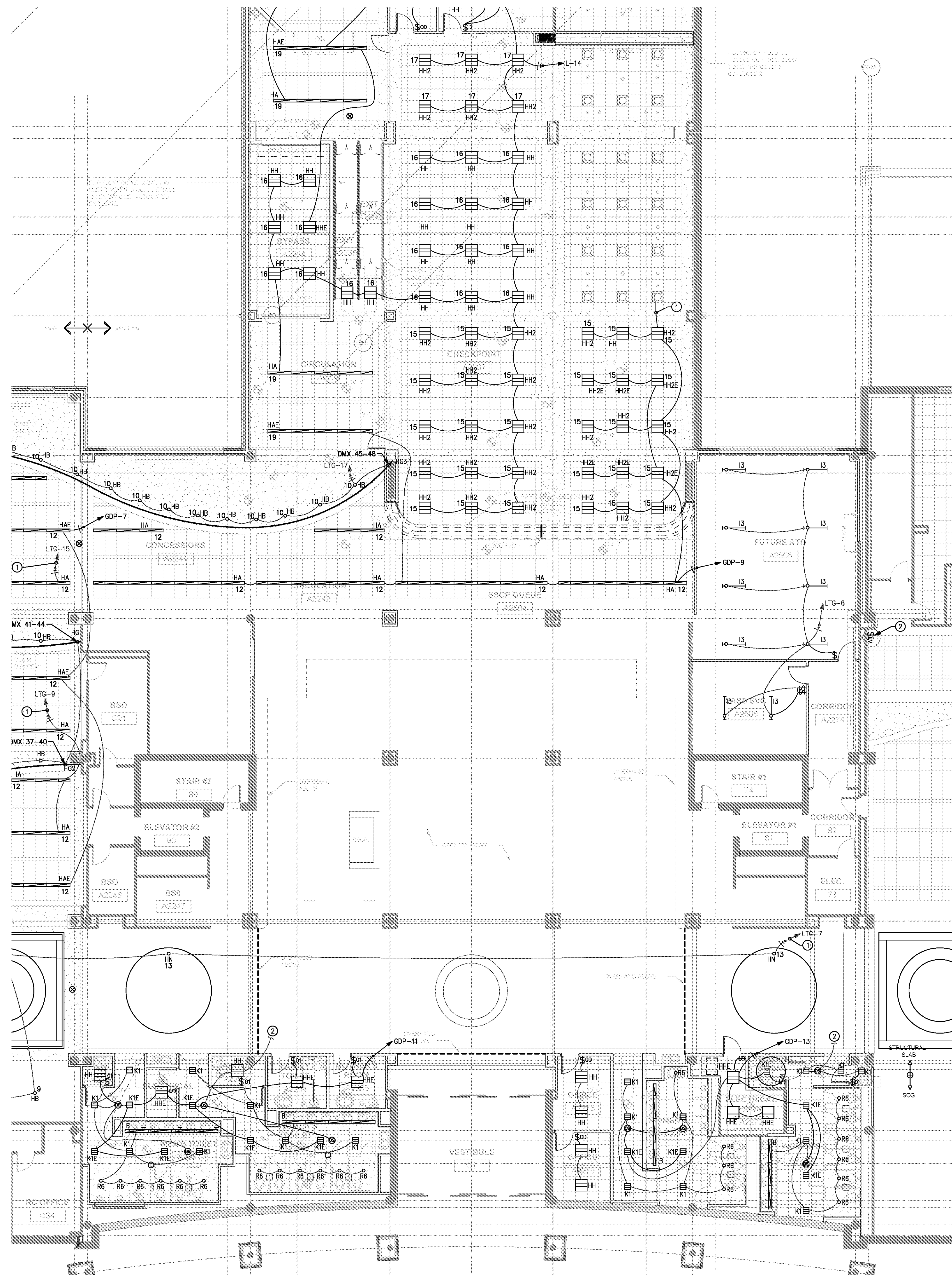
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DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE

SCHEDULE 2 -  
 ELECTRICAL  
 BOARDING LEVEL  
 LIGHTING PLAN  
 ZONE 4  
 SHEET NUMBER

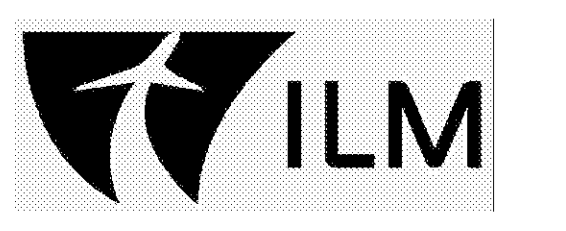
E2-154

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
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 2. NUMBER NEXT TO LIGHT FIXTURE INDICATES DIMMER SCHEDULED ZONE.

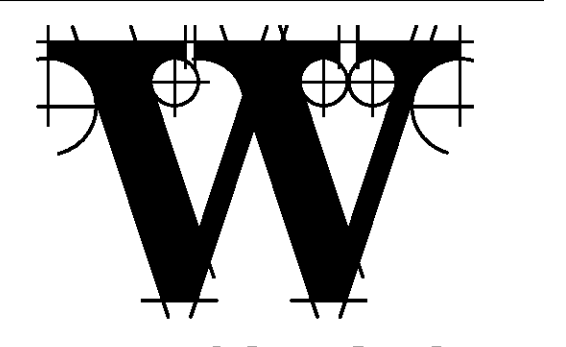
KEYED NOTES:  
 ① #10 CONDUCTORS USED FOR BRANCH CIRCUIT INDICATED.  
 ② CONNECT TO EXISTING CIRCUITS PREVIOUSLY SERVING SPACE.



**TERMINAL IMPROVEMENTS CONTRACT 3**

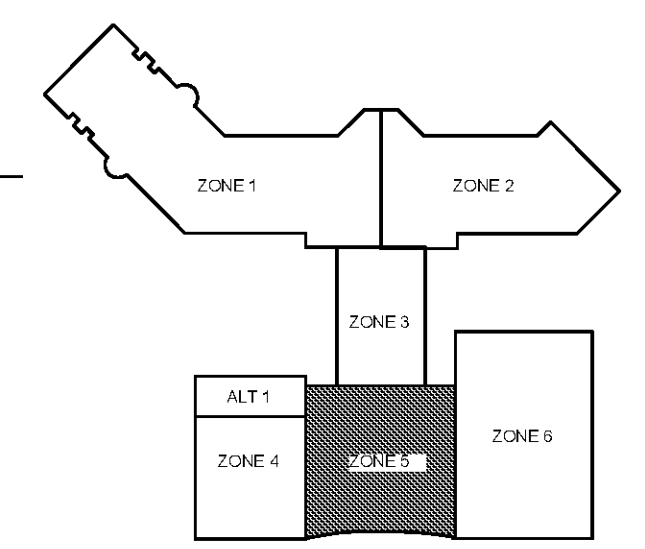
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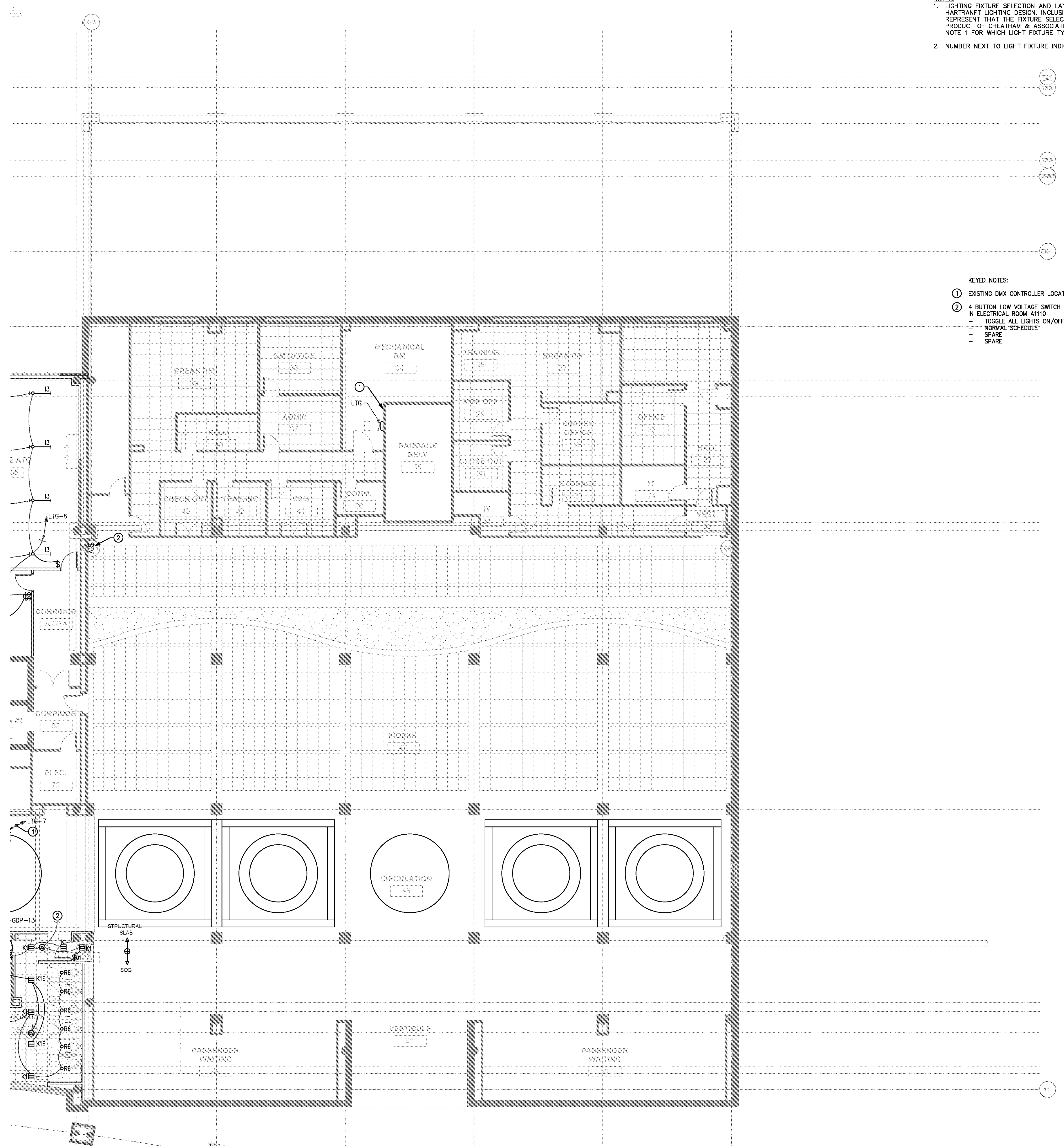
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DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE

**SCHEDULE 2 - ELECTRICAL BOARDING LEVEL LIGHTING PLAN ZONE 5**  
 SHEET NUMBER

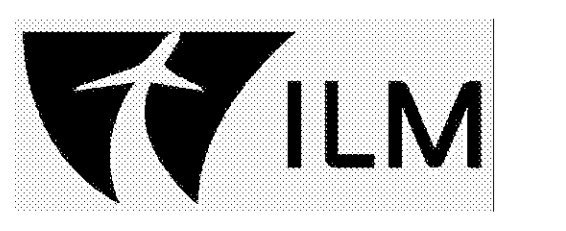
**E2-155**

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
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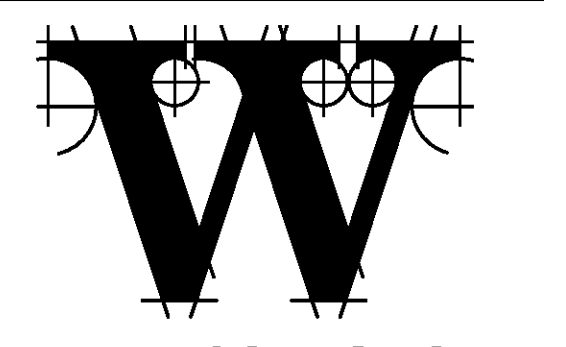
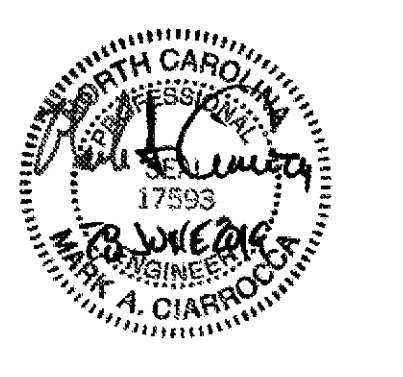
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 2. NUMBER NEXT TO LIGHT FIXTURE INDICATES DIMMER SCHEDULED ZONE.

KEYED NOTES:  
 ① EXISTING DMX CONTROLLER LOCATION  
 ② 4 BUTTON LOW VOLTAGE SWITCH FOR NEW LIGHTING CONTROL PANEL LOCATED IN ELECTRICAL ROOM A1110  
 - TOGGLE ALL LIGHTS ON/OFF  
 - NORMAL SCHEDULE  
 - SPARE  
 - SPARE



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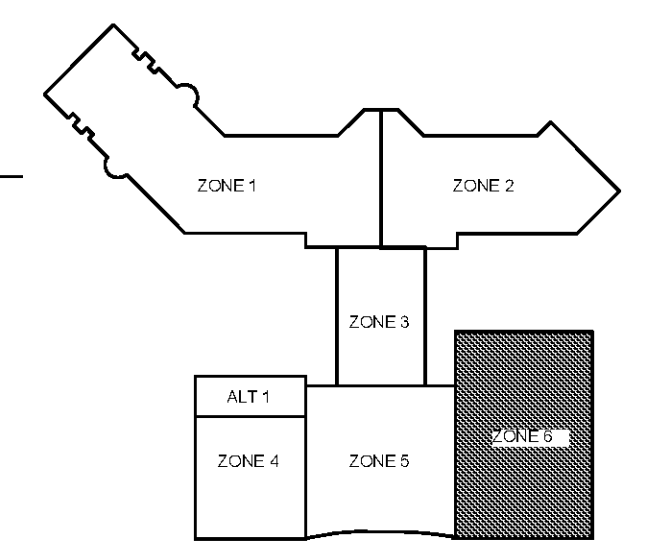
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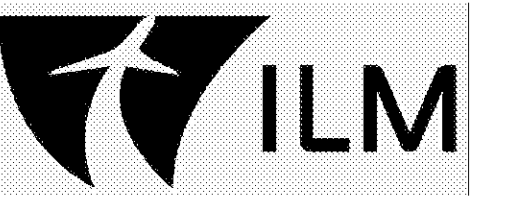
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 PROJECT NUMBER 9202-000  
 SHEET TITLE

**SCHEDULE 2 - ELECTRICAL BOARDING LEVEL LIGHTING PLAN ZONE 6**  
 SHEET NUMBER

**E2-156**

**SCHEDULE 2 - ELECTRICAL BOARDING LEVEL - LIGHTING PLAN - ZONE 6**  
 SCALE: 1/8" = 1'-0"  
 GRAPHIC SCALE: 1" = 1'-0"  
 TRUE NORTH

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
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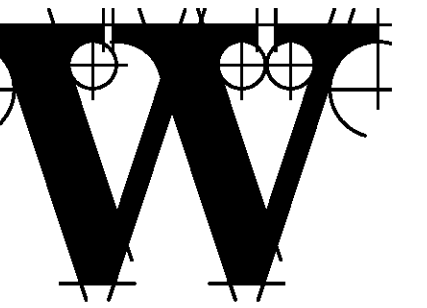
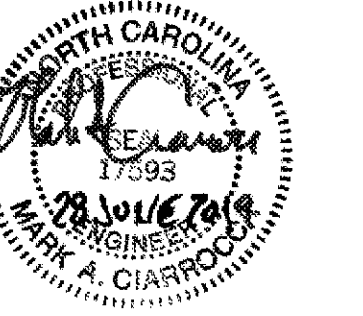


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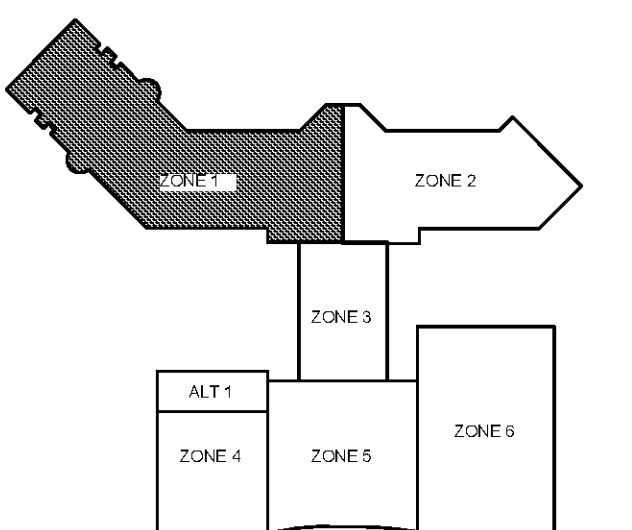
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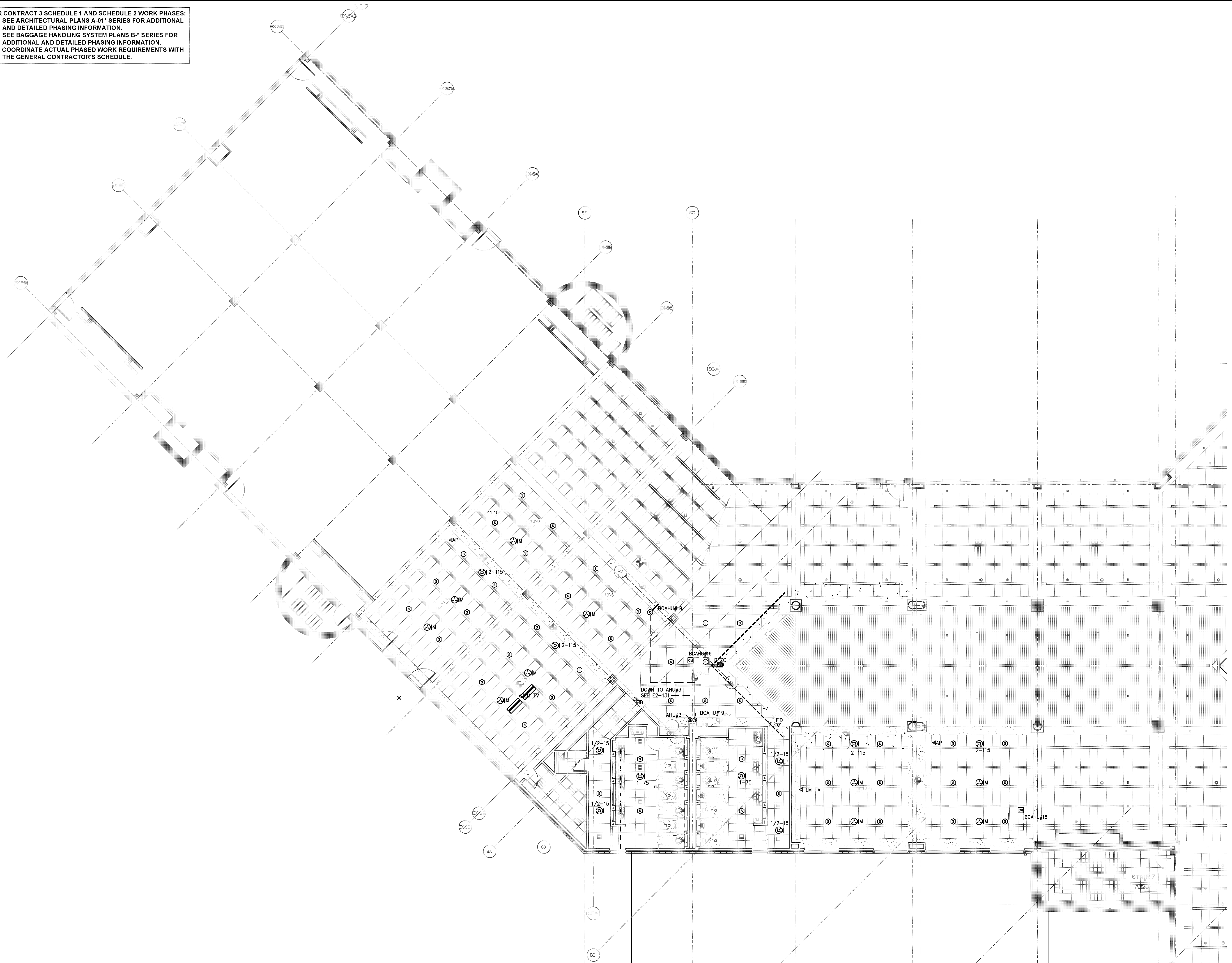
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DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE

**SCHEDULE 2 - ELECTRICAL BOARDING LEVEL - AUXILIARY SYSTEMS PLAN - ZONE 1**  
 SHEET NUMBER

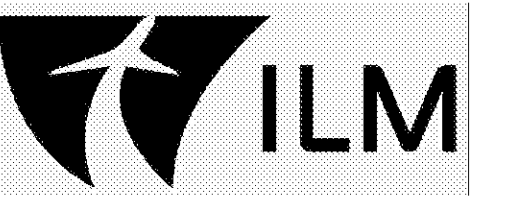
**E2-161**



**SCHEDULE 2 - ELECTRICAL BOARDING LEVEL - AUXILIARY SYSTEMS PLAN - ZONE 1**  
 SCALE: 1/8" = 1'-0" GRAPHIC SCALE: 1"=1'-0"



FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
 • SEE ARCHITECTURAL PLANS A-01\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.  
 • SEE BAGGAGE HANDLING SYSTEM PLANS B-\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.  
 • COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.

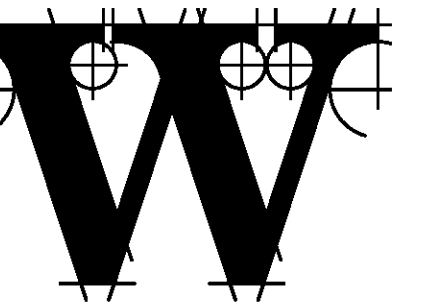
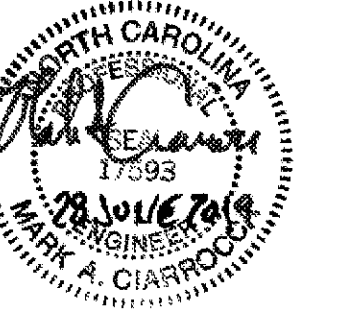


**TERMINAL IMPROVEMENTS CONTRACT 3**

Wilmington International Airport  
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 Wilmington, NC 28405

**CHEATHAM & ASSOCIATES, P.A.**  
 CONSULTING ENGINEERS  
 3412 ENTERPRISE DRIVE  
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 PHONE: (910) 452-4210  
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**TALBERT & BRIGHT**

CONSULTING ARCHITECT  
**LS3P**

STRUCTURAL ENGINEER  
**STEWART**

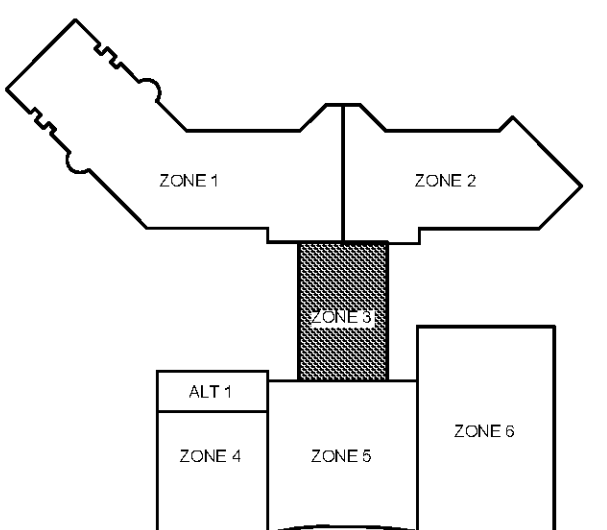
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**CHEATHAM & ASSOC.**

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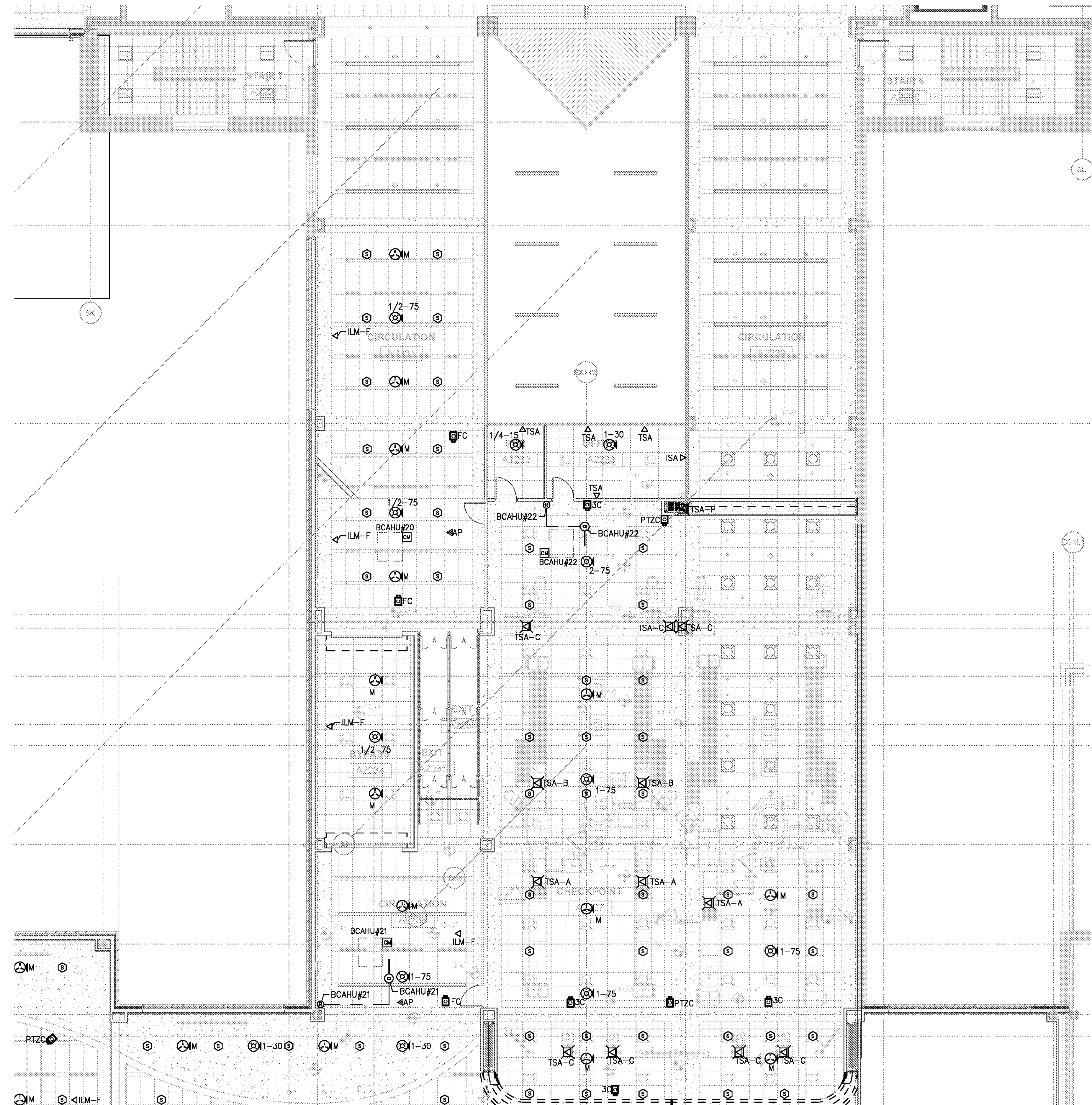


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**REVISIONS**



**SCHEDULE 2 - ELECTRICAL BOARDING LEVEL - AUXILIARY SYSTEMS PLAN - ZONE 3**

GRAPHIC SCALE: 1"=1'-0"  
 0 2 4 8 16

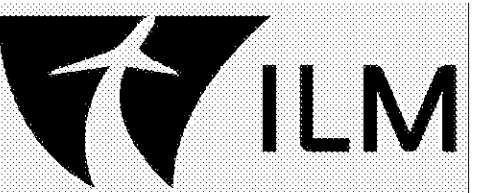


DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE

**SCHEDULE 2 - ELECTRICAL BOARDING LEVEL AUXILIARY SYSTEMS PLAN ZONE 3**  
 SHEET NUMBER

**E2-163**

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
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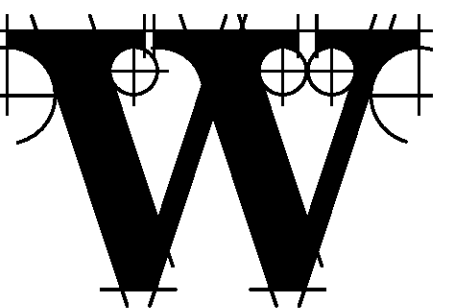


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STRUCTURAL ENGINEER  
 STEWART

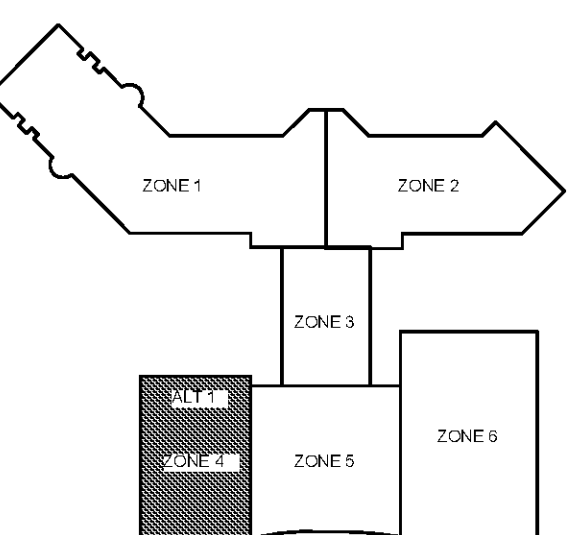
FP/PM/E ENGINEER  
**CHEATHAM & ASSOC.**

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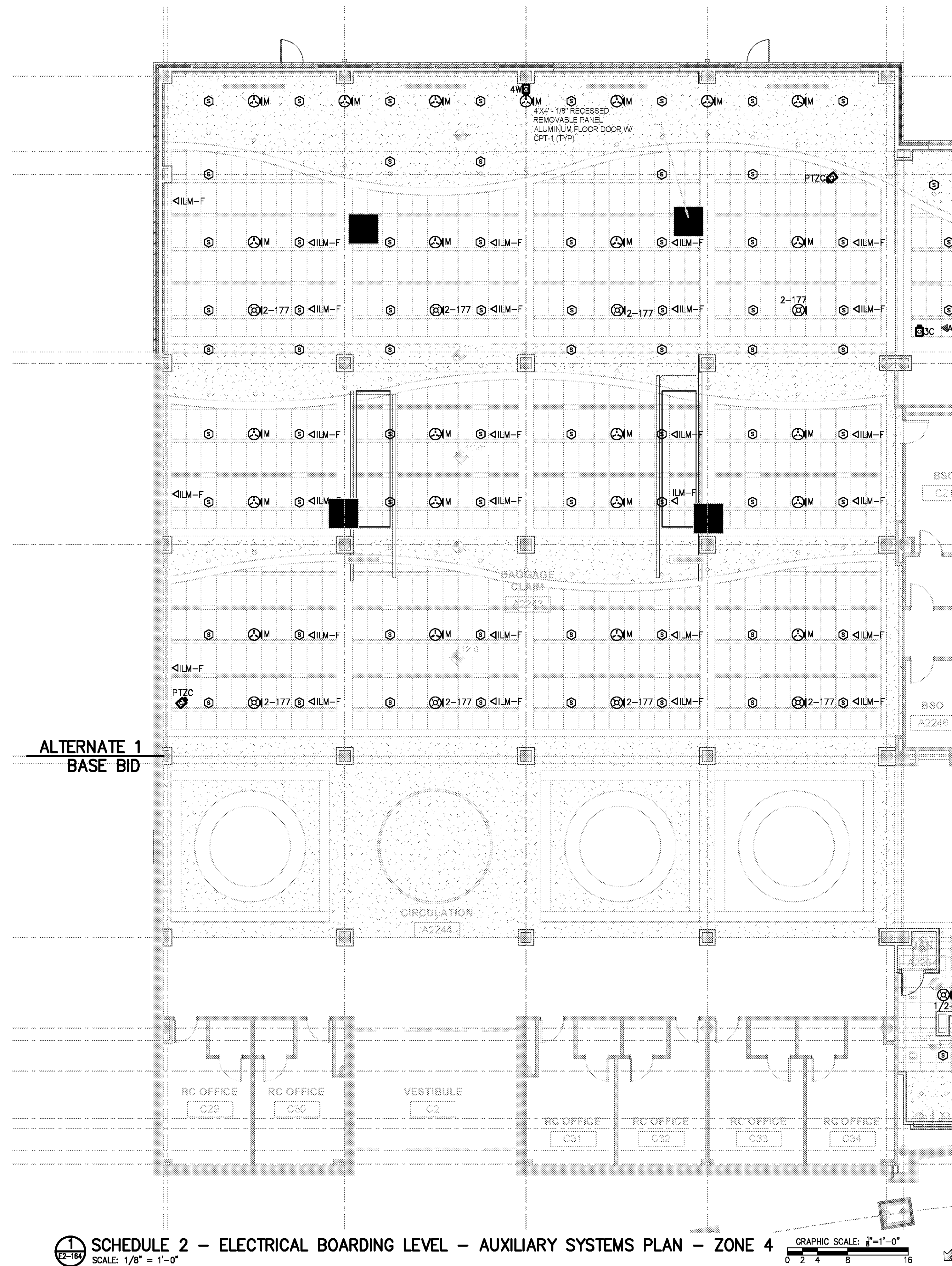
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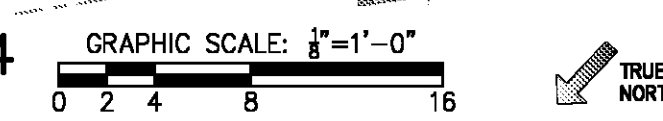
**SCHEDULE 2 - ELECTRICAL BOARDING LEVEL AUXILIARY SYSTEMS PLAN ZONE 4**  
 SHEET NUMBER

**E2-164**



ALTERNATE 1  
 BASE BID

**SCHEDULE 2 - ELECTRICAL BOARDING LEVEL - AUXILIARY SYSTEMS PLAN - ZONE 4**  
 SCALE: 1/8" = 1'-0"

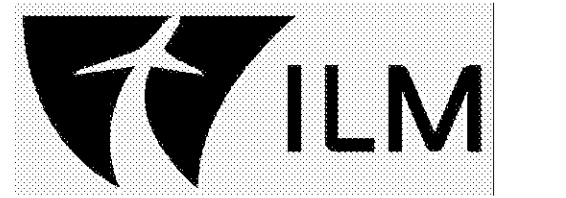




FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
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**SCHEDULE 2 - ELECTRICAL BOARDING LEVEL - AUXILIARY SYSTEMS PLAN - ZONE 6**  
 SCALE: 1/8" = 1'-0" GRAPHIC SCALE: 1" = 1'-0"

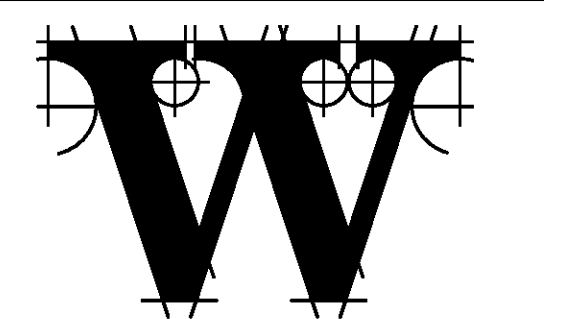
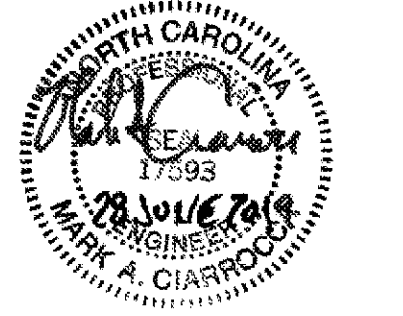


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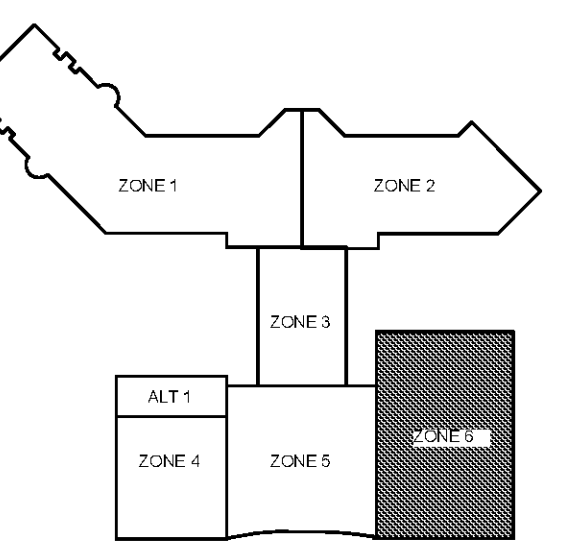
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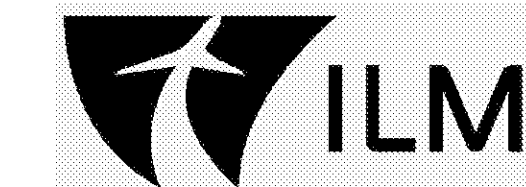
**REVISIONS**

DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE

**SCHEDULE 2 - ELECTRICAL BOARDING LEVEL AUXILIARY SYSTEMS PLAN ZONE 6**  
 SHEET NUMBER

**E2-166**

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
 • SEE ARCHITECTURAL PLANS A-01\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.  
 • SEE BAGGAGE HANDLING SYSTEM PLANS B-\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.  
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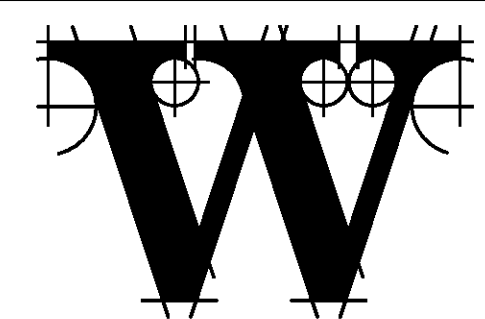


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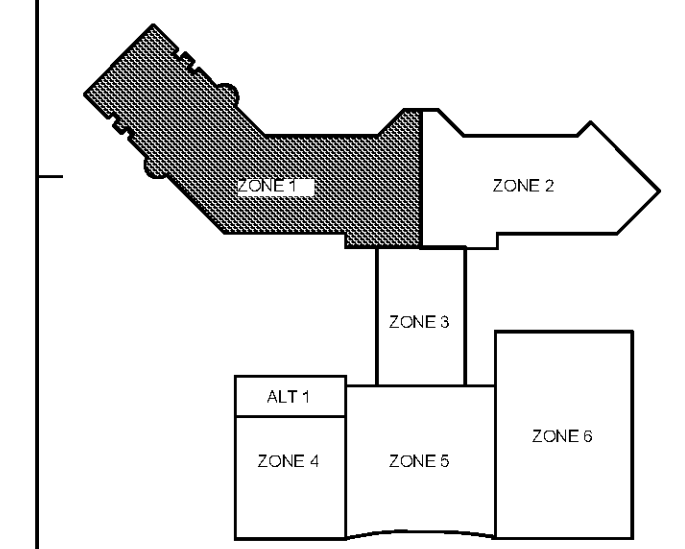
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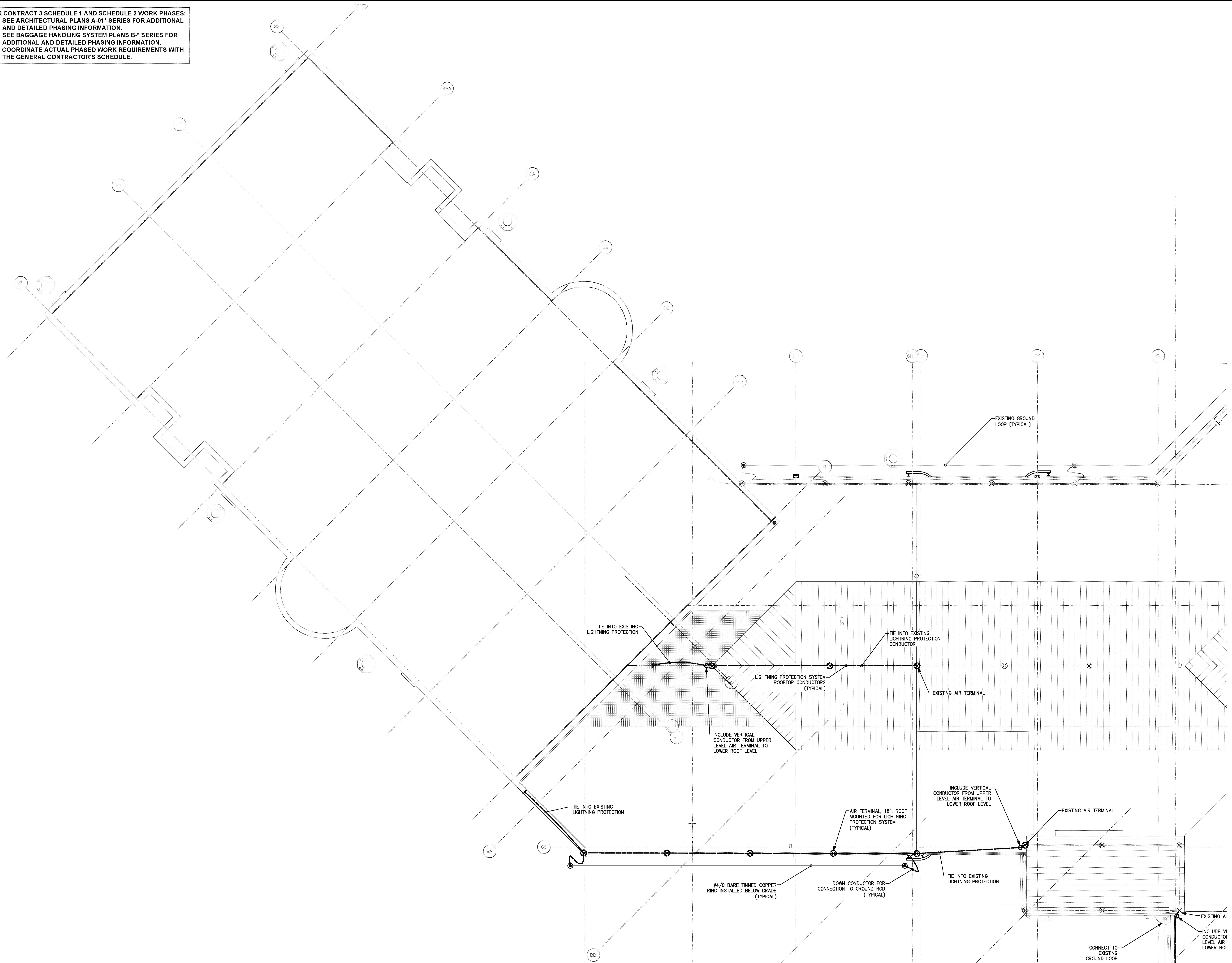
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DATE 06/28/19  
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 SHEET TITLE

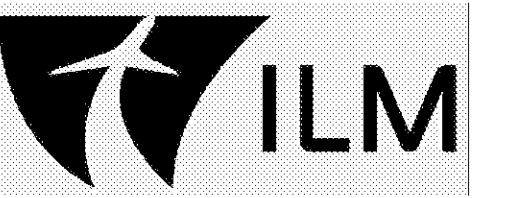
**SCHEDULE 2 - ELECTRICAL ROOF PLAN ZONE 1**

SHEET NUMBER  
**E2-171**



**SCHEDULE 2 - ELECTRICAL ROOF PLAN - ZONE 1**  
 SCALE: 1/8" = 1'-0"  
 GRAPHIC SCALE: 1/8" = 1'-0"  
 TRUE NORTH

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
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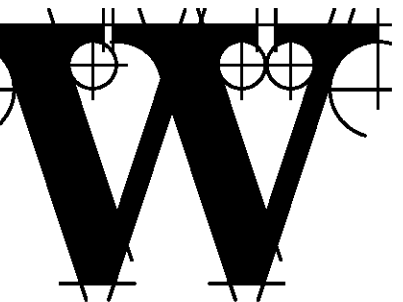
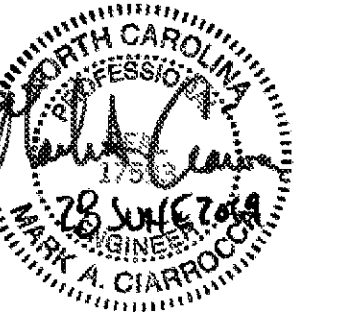


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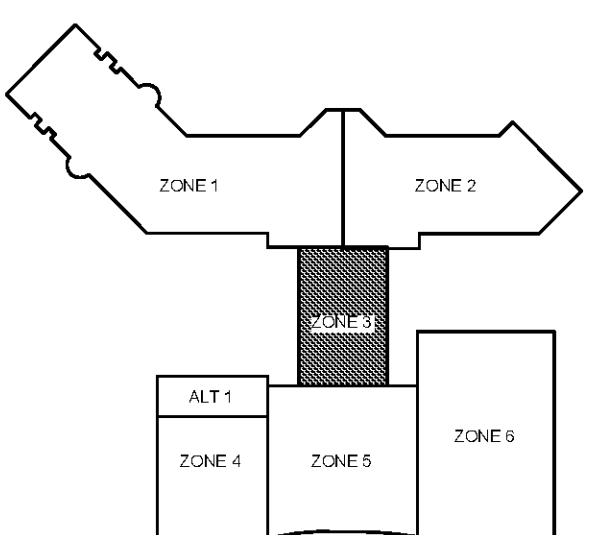
FP/PM/E ENGINEER  
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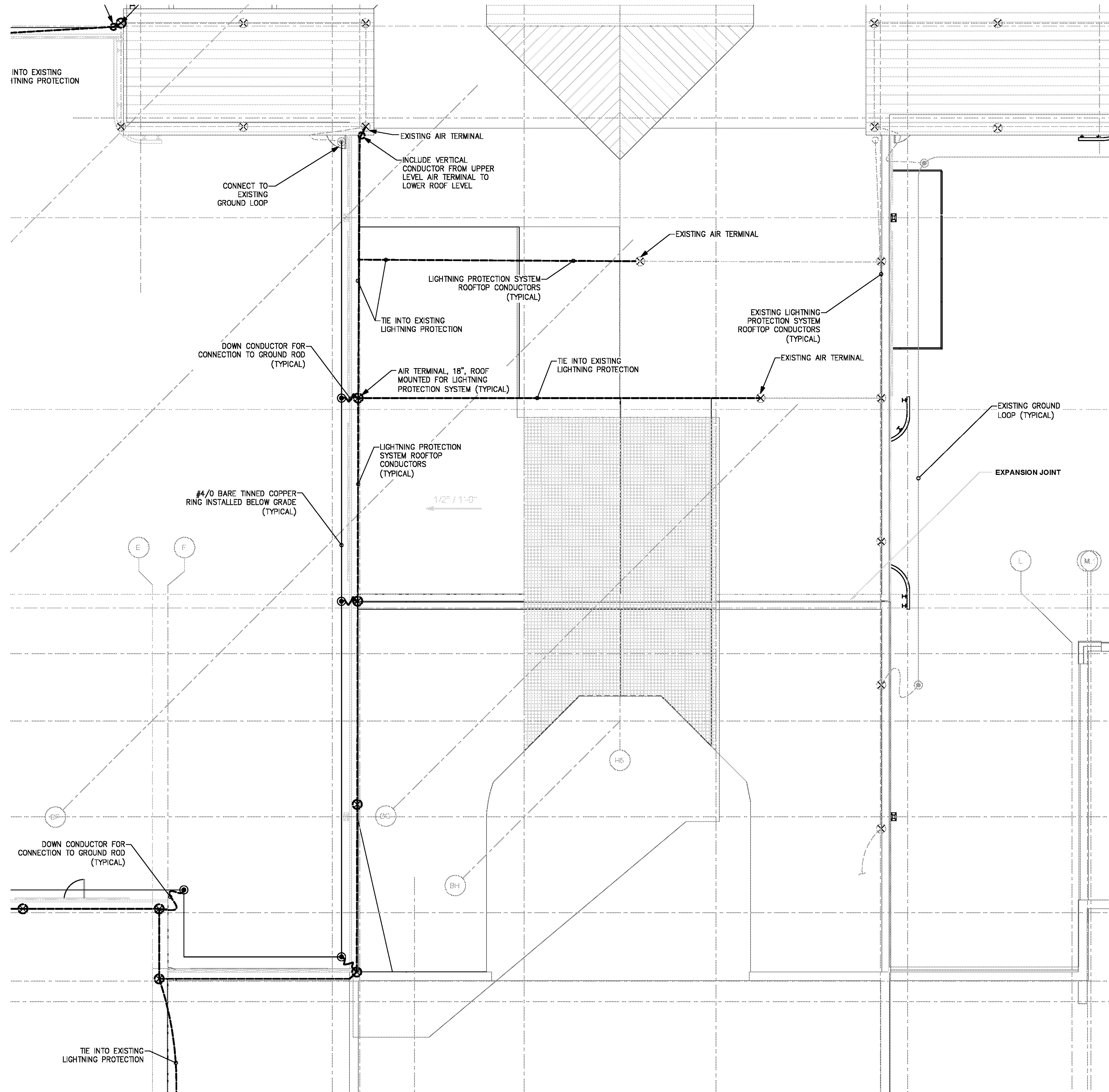


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**REVISIONS**



**SCHEDULE 2 - ELECTRICAL ROOF PLAN - ZONE 3**  
 SCALE: 1/8" = 1'-0"

GRAPHIC SCALE: 1/8" = 1'-0"  
 0 2 4 8 16



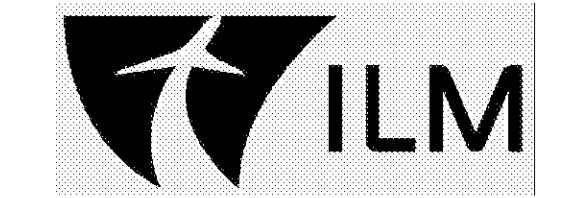
DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE

**SCHEDULE 2 - ELECTRICAL ROOF PLAN ZONE 3**

SHEET NUMBER

**E2-173**

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
 • SEE ARCHITECTURAL PLANS A-01\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.  
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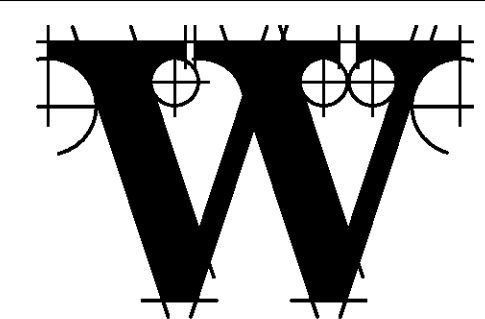


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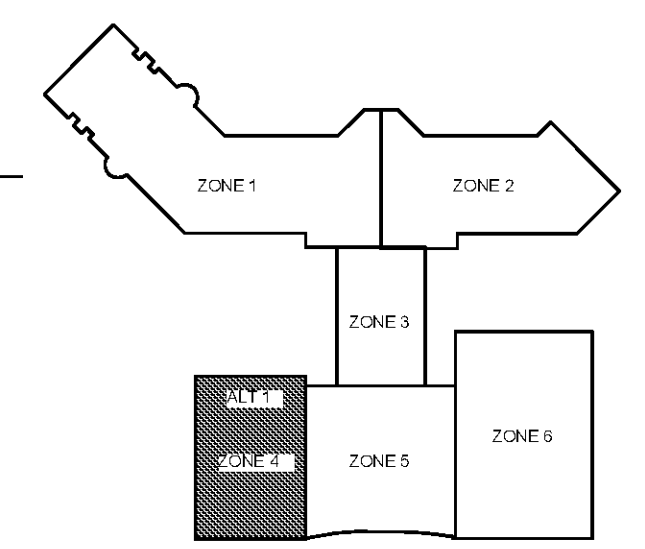
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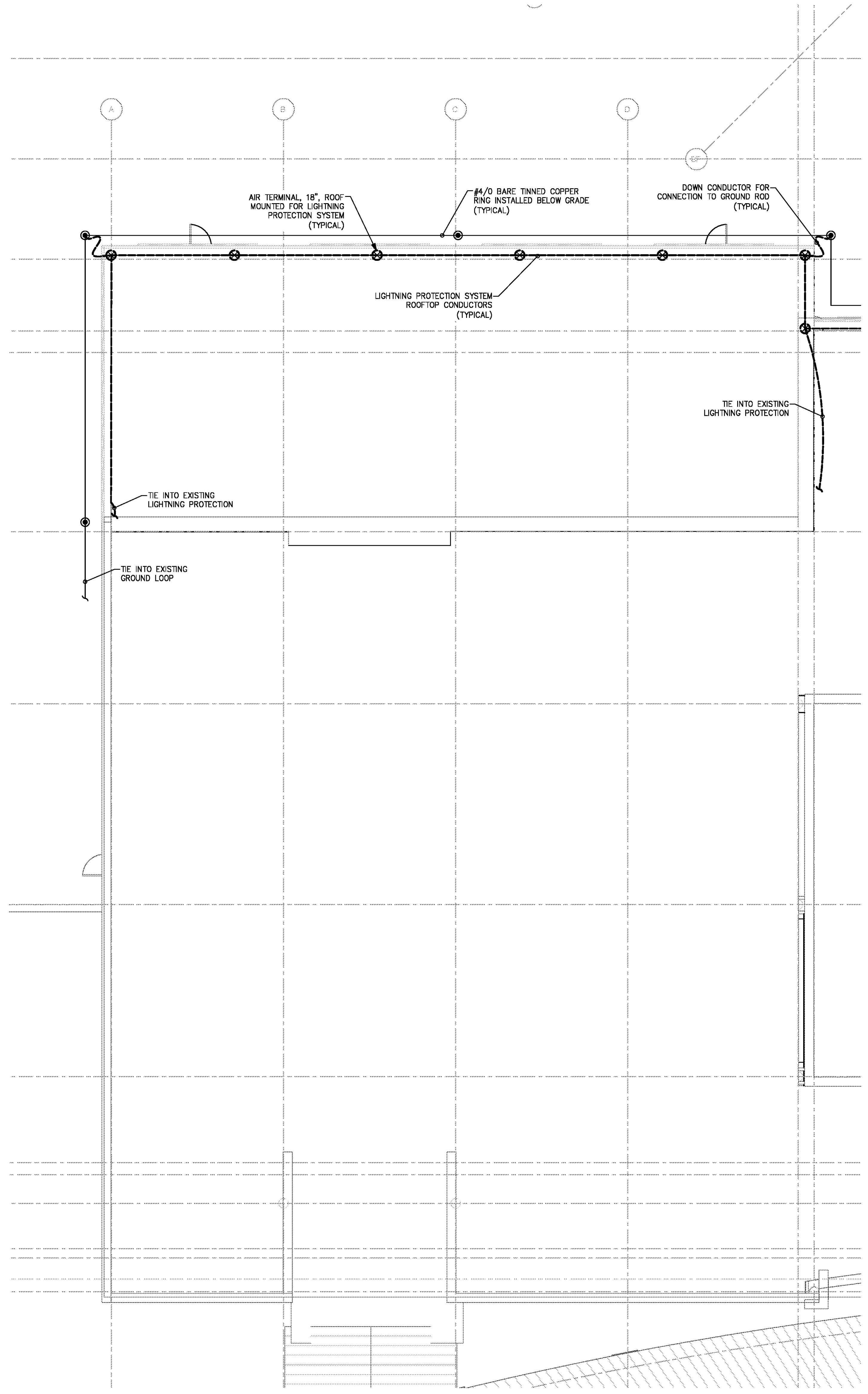
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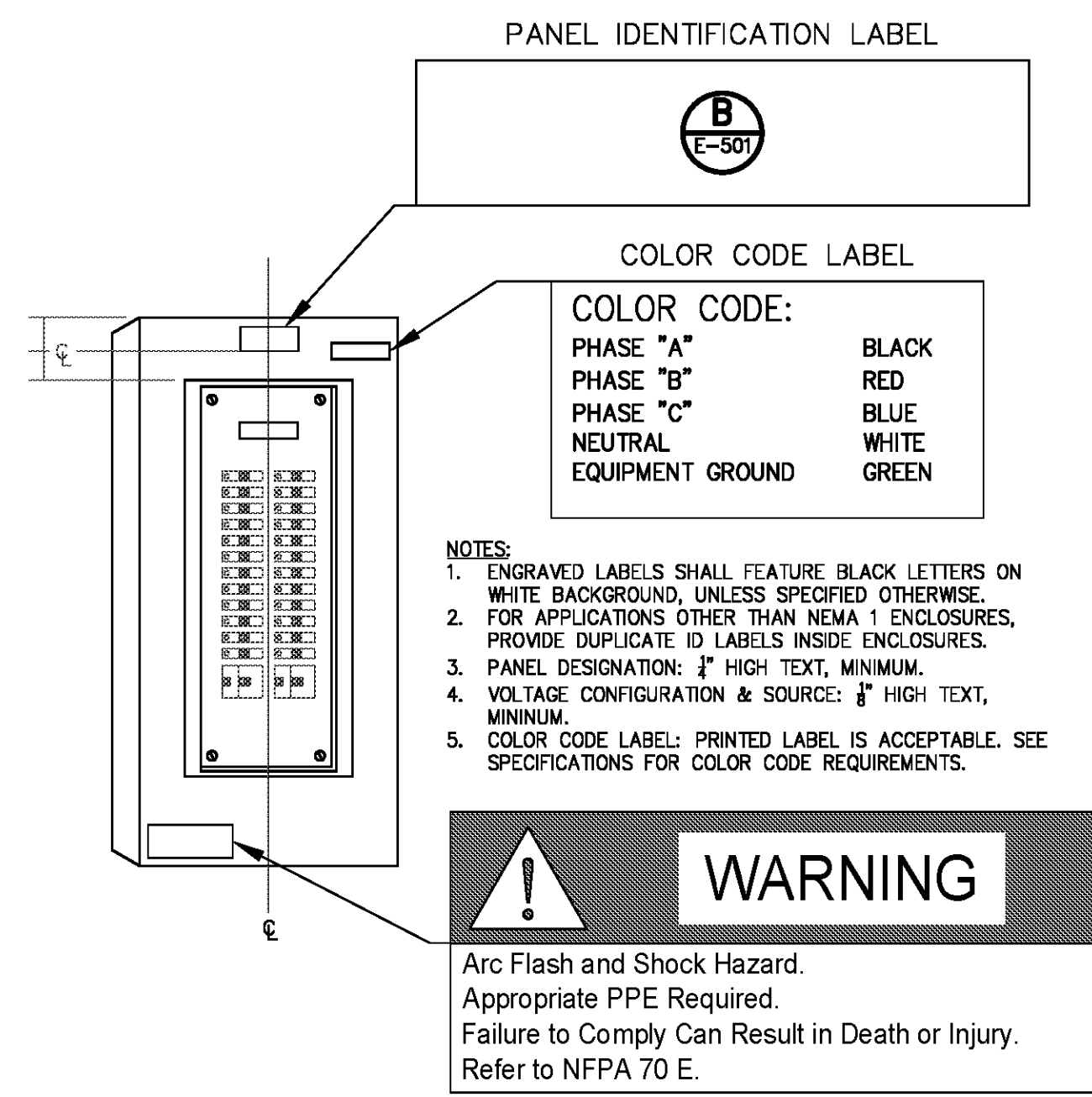
**REVISIONS**

DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE

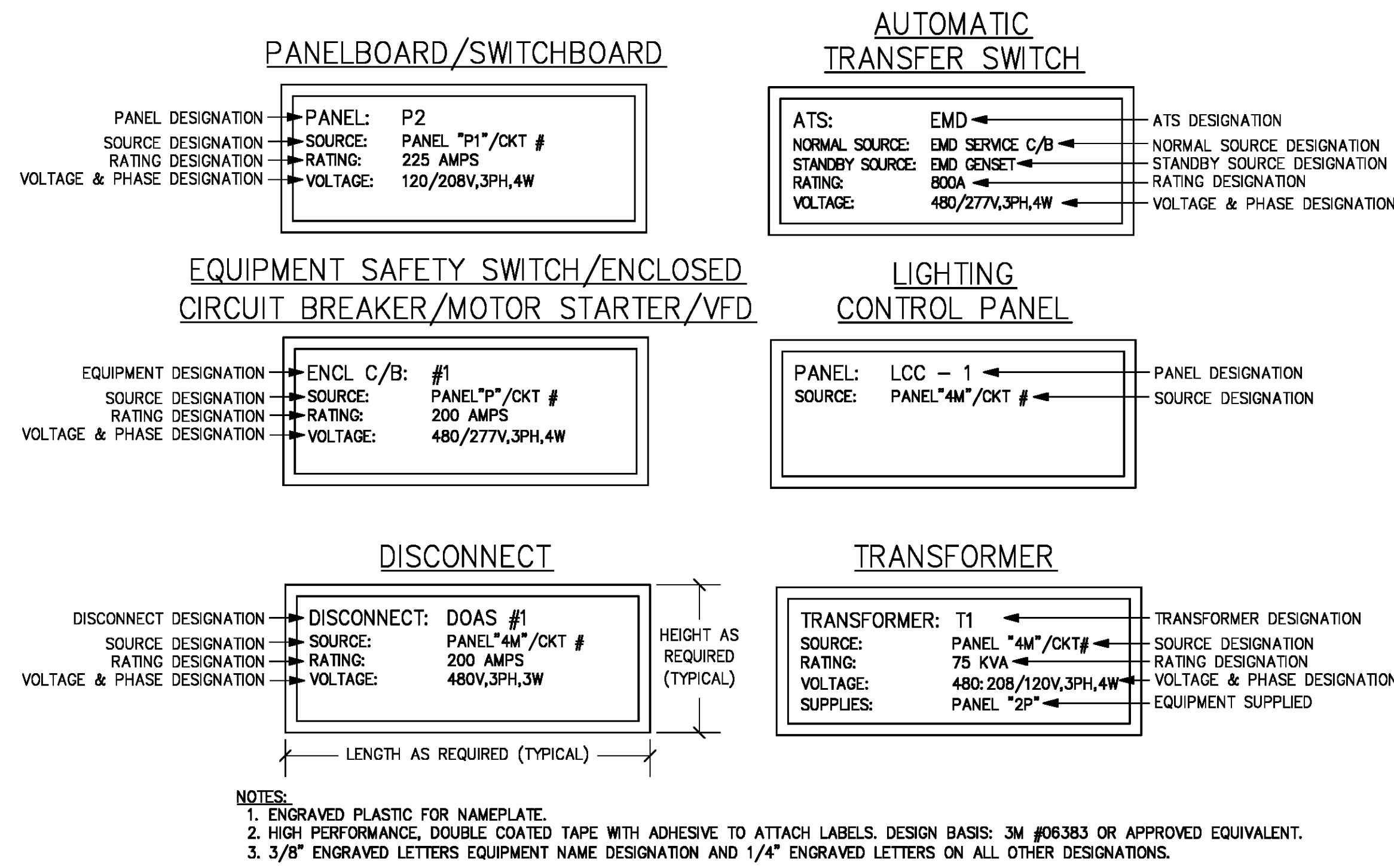
**SCHEDULE 2 - ELECTRICAL ROOF PLAN ZONE 4- ALTERNATIVE 1**

SHEET NUMBER  
**E2-174**

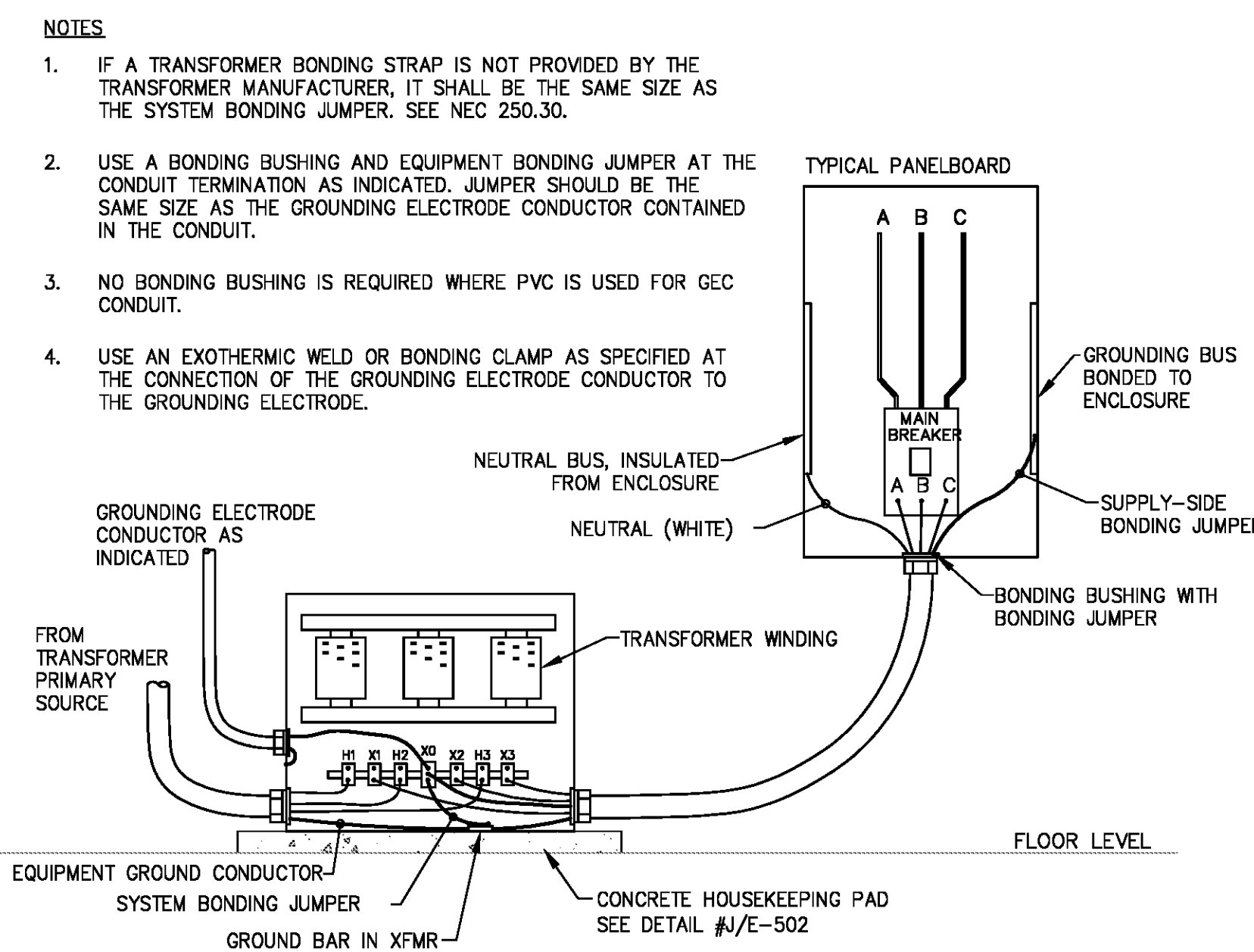




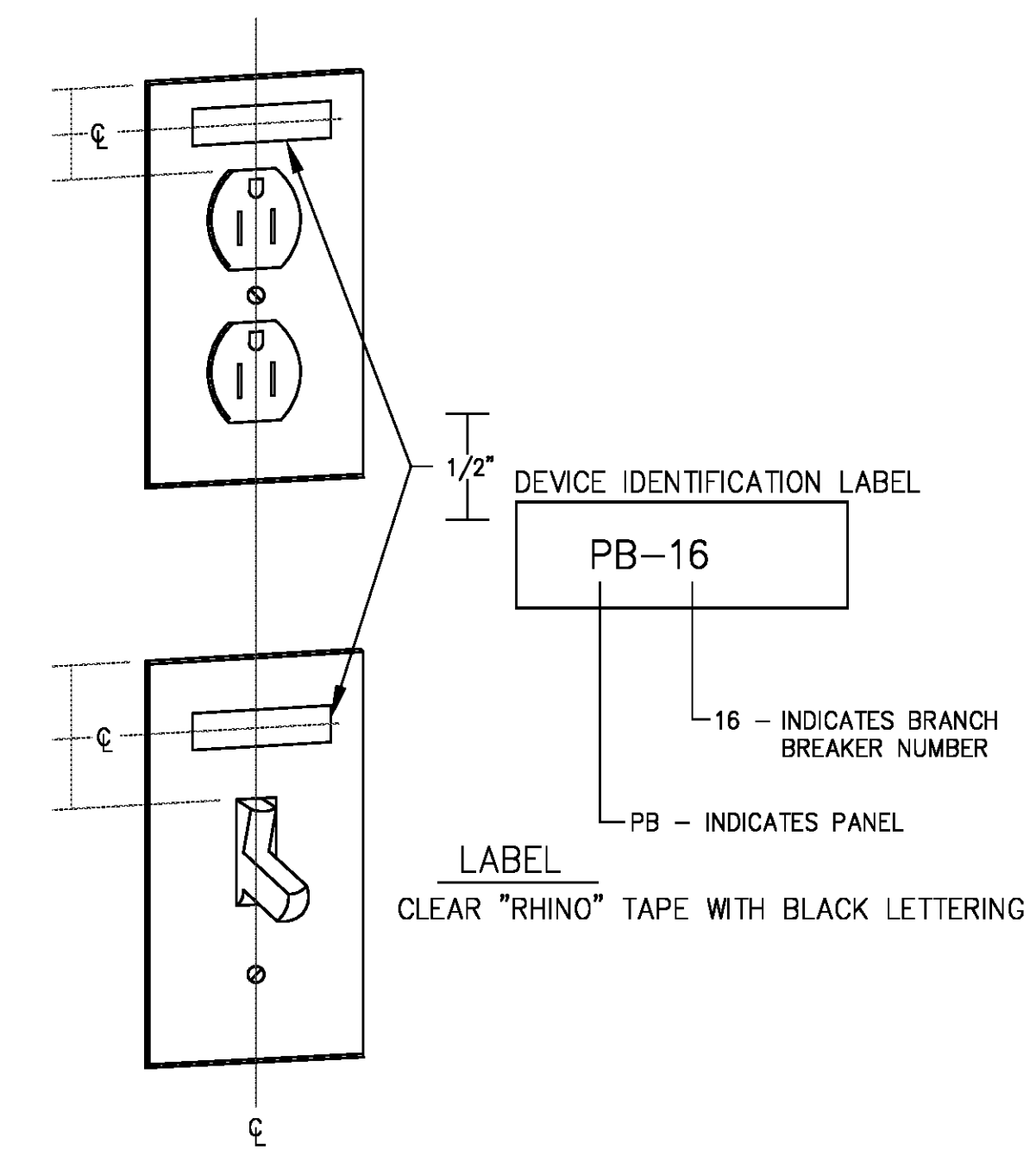
**A** TYPICAL PANELBOARD IDENTIFICATION  
NO SCALE



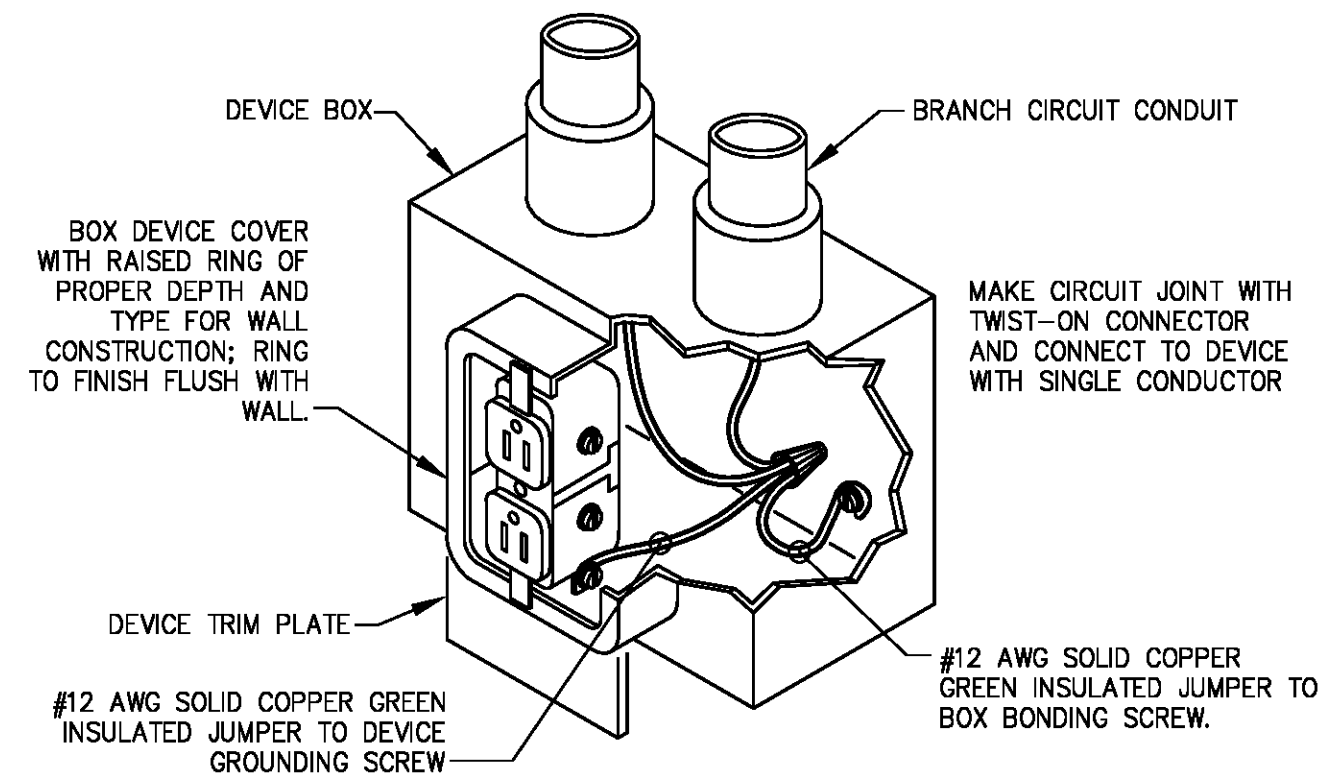
**B** TYPICAL NAMEPLATE DETAILS  
NO SCALE



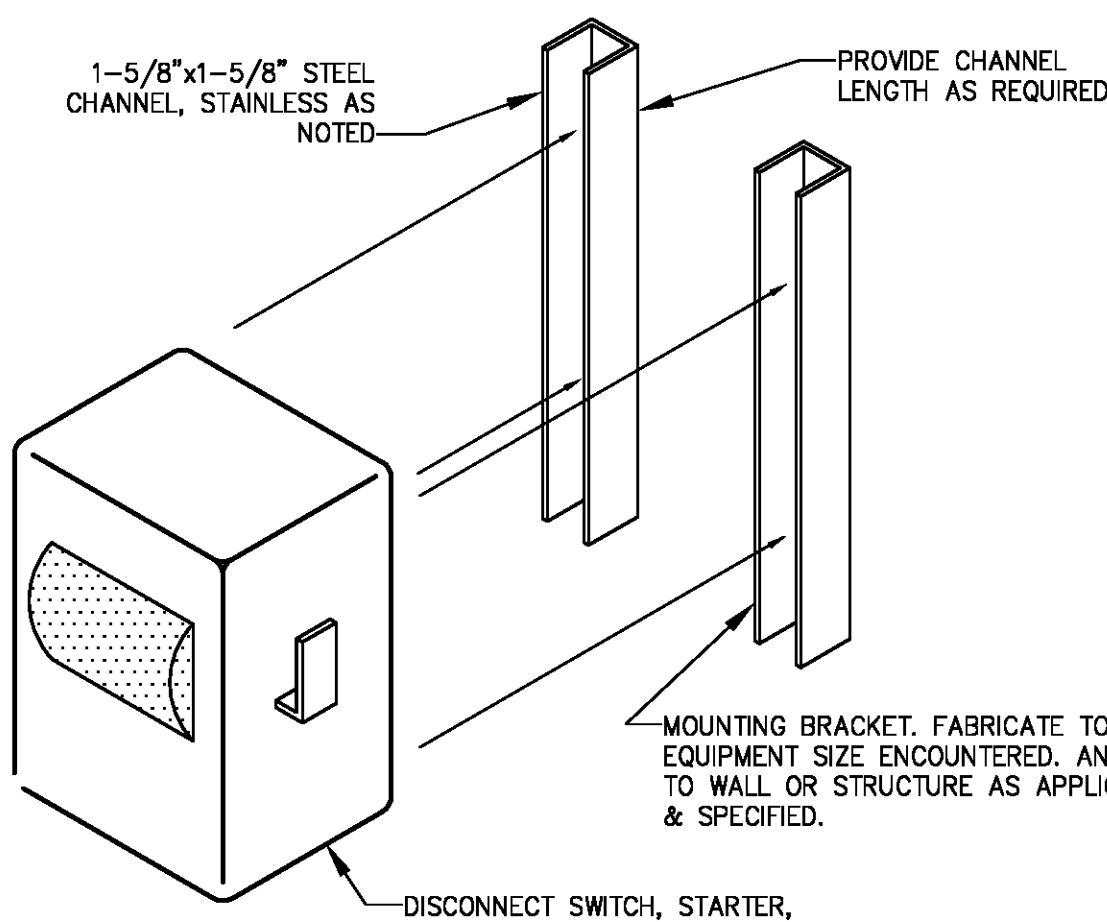
**C** DRY-TYPE TRANSFORMER GROUNDING DETAIL  
NO SCALE



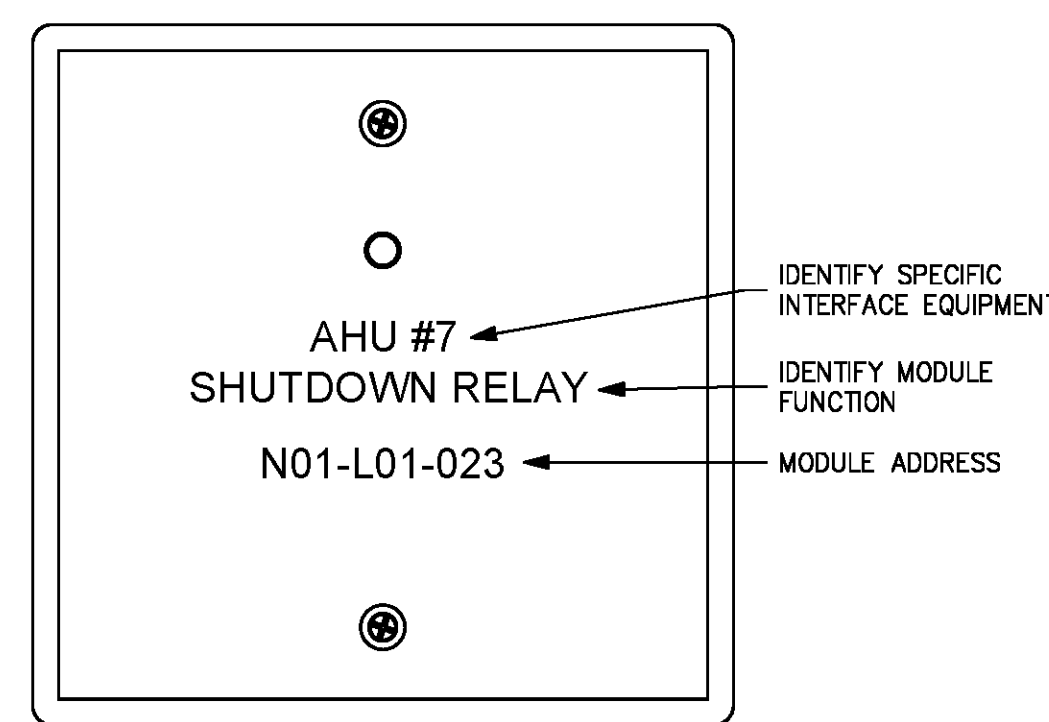
**D** WIRING DEVICE IDENTIFICATION LABEL  
NO SCALE



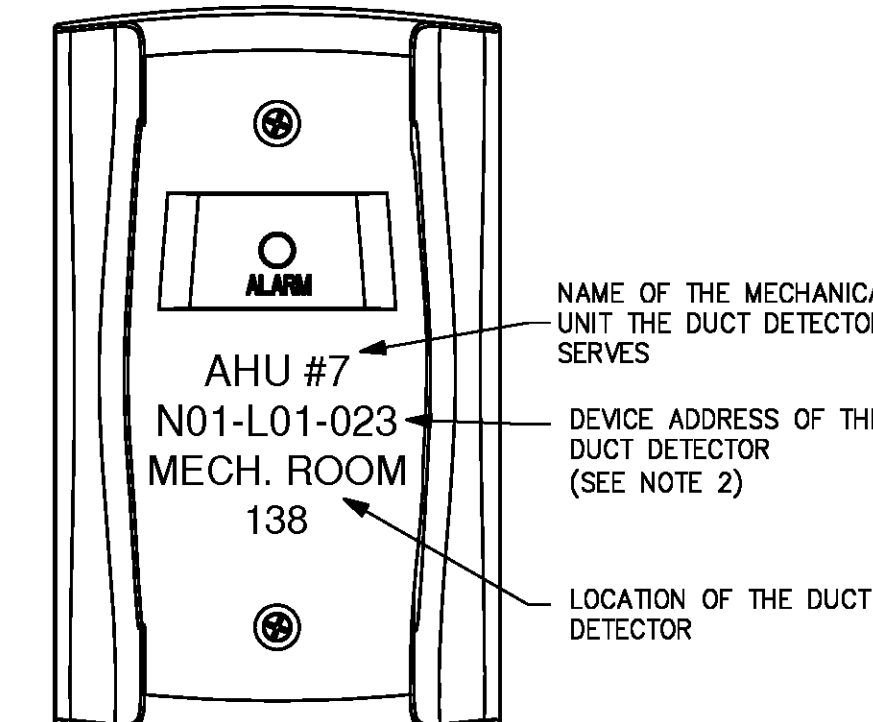
**E** OUTLET GROUNDING DETAIL  
SCALE: N/A



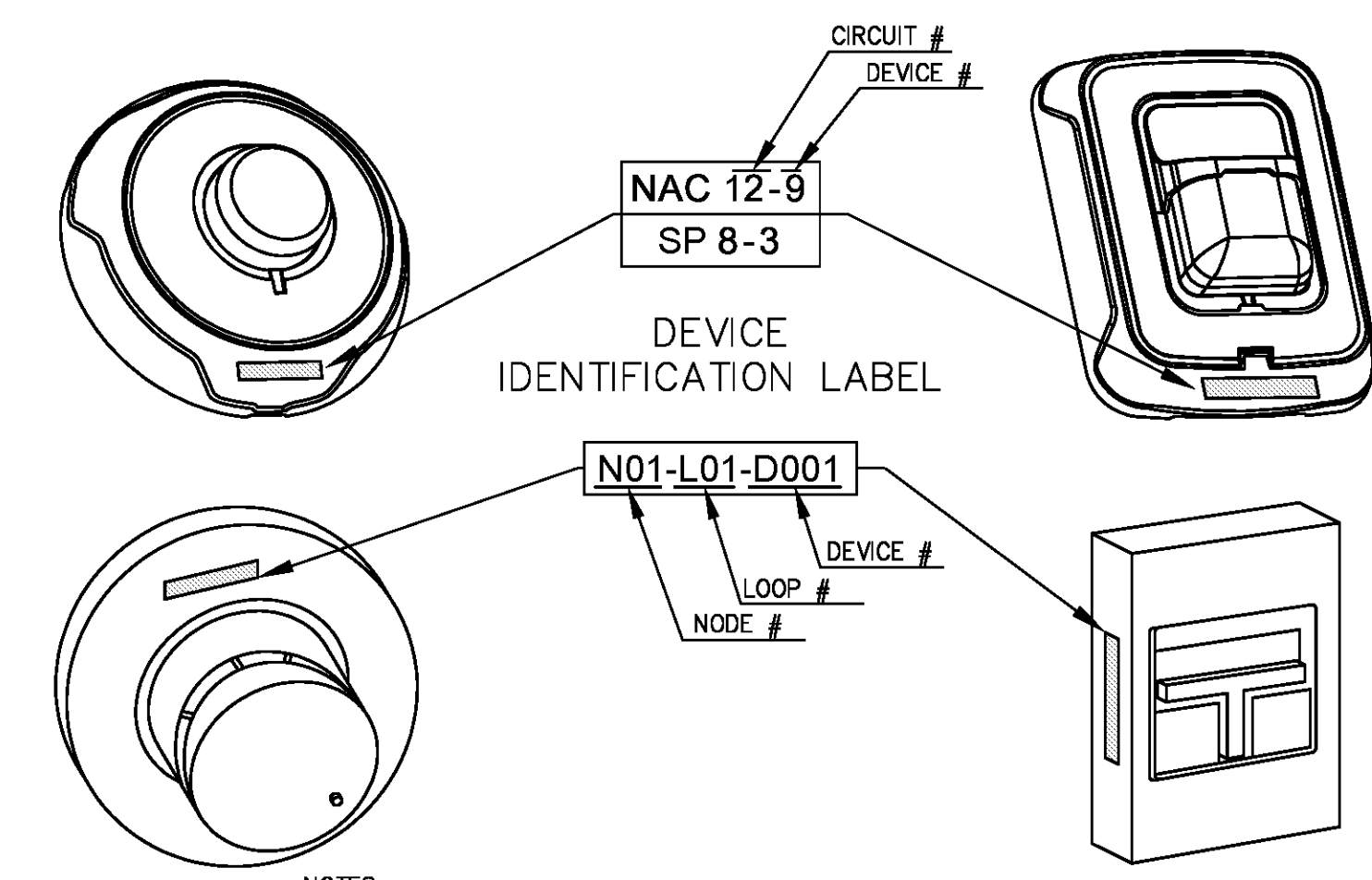
**F** EQUIPMENT MOUNTING DETAIL  
NO SCALE



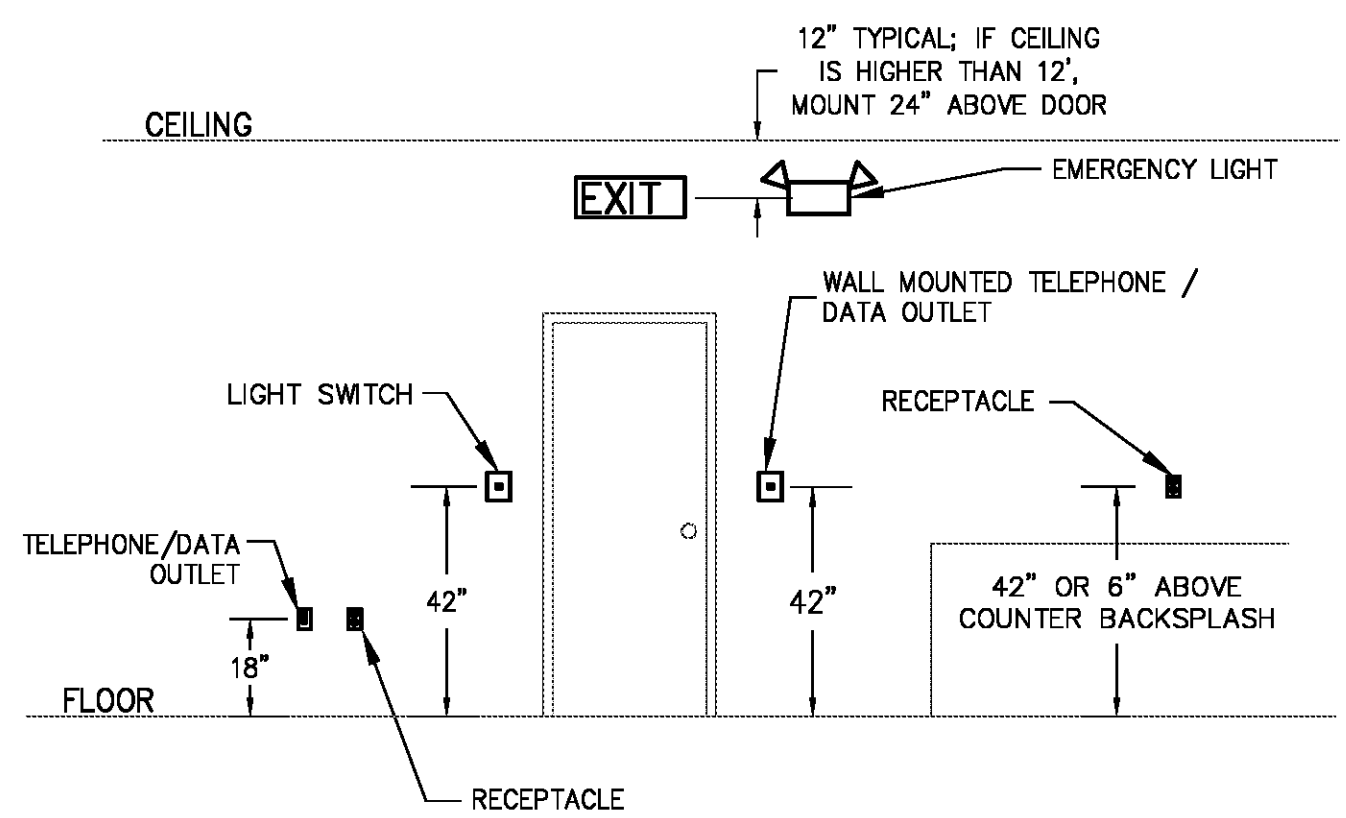
**G** CONTROL/RELAY MODULE LABELING DETAIL  
NO SCALE



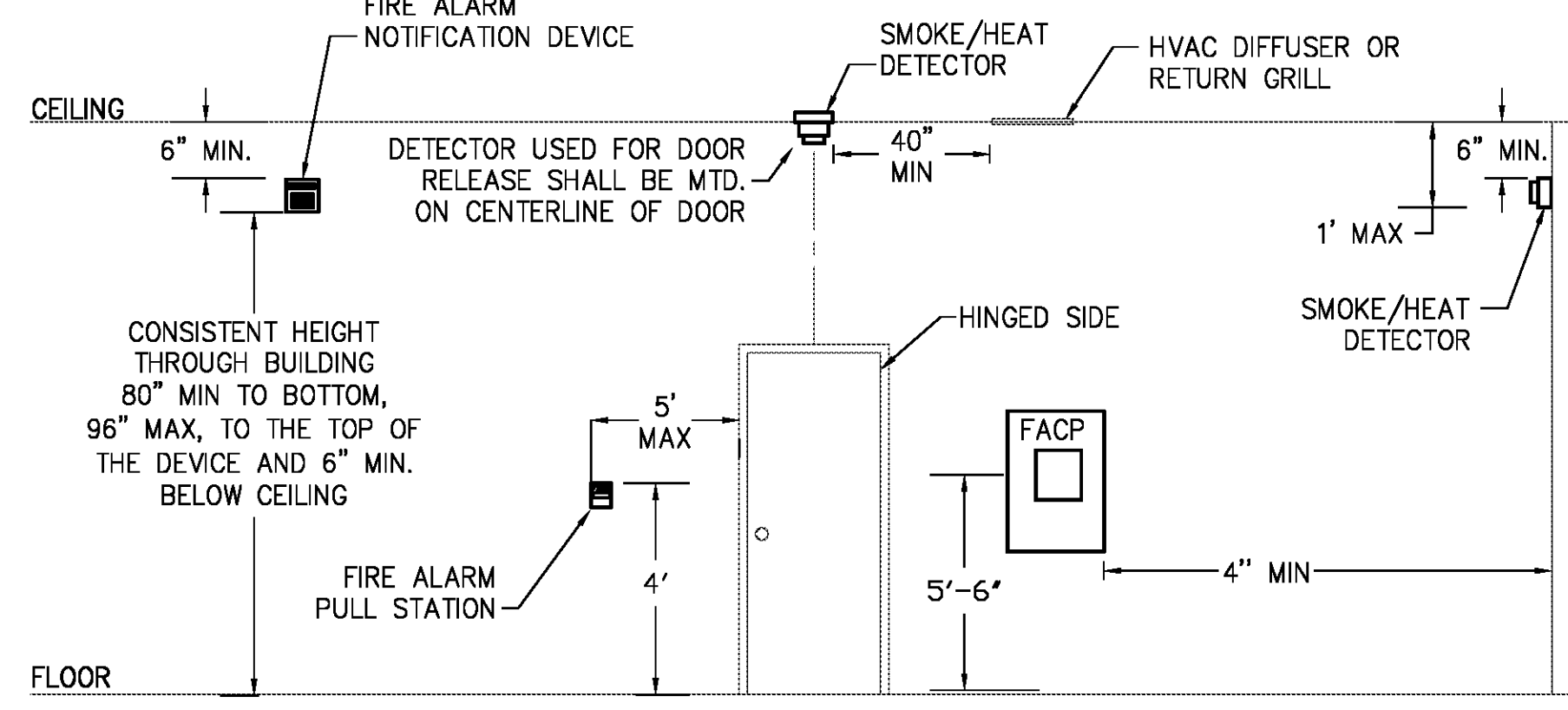
**H** REMOTE ALARM INDICATING LAMP LABELING DETAIL  
NO SCALE



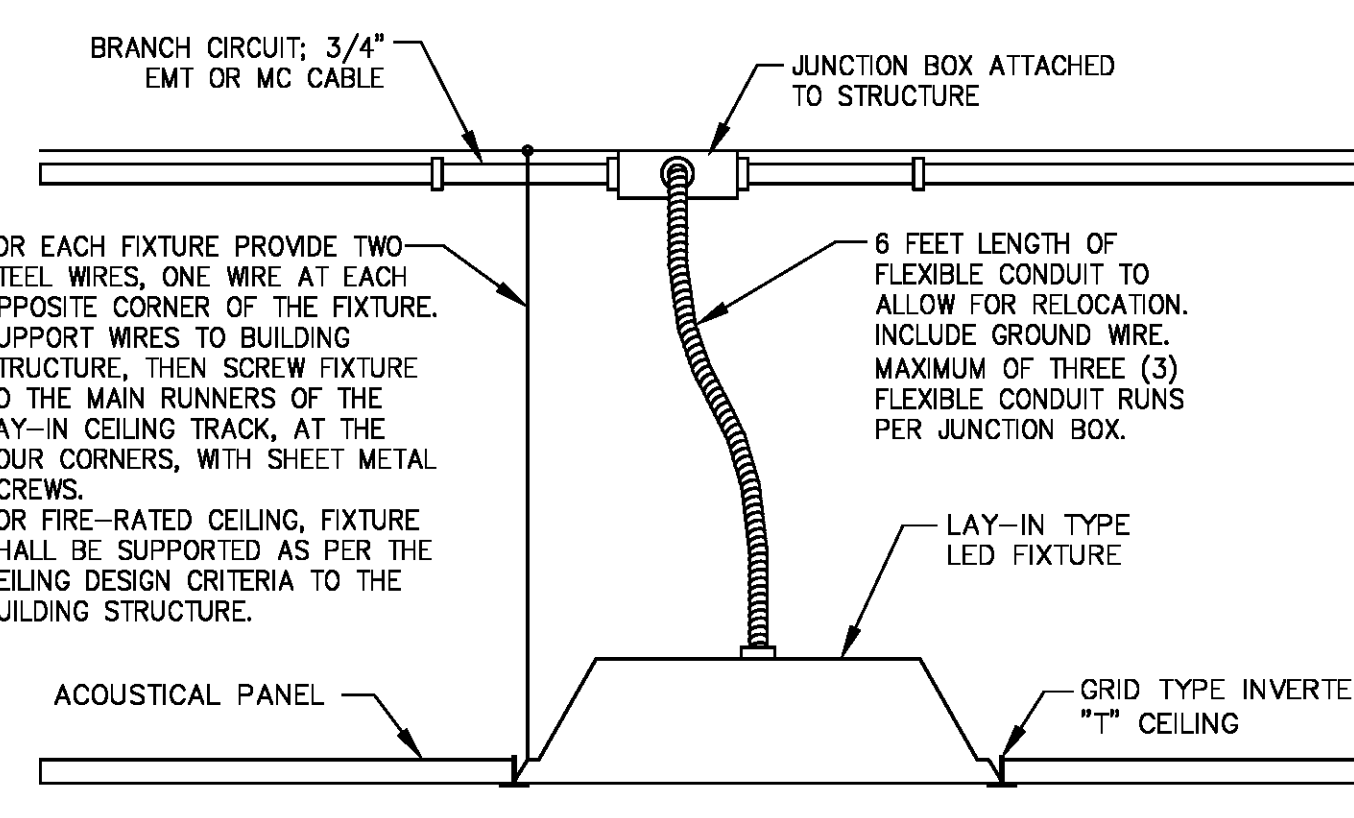
**J** TYPICAL FIRE ALARM DEVICE IDENTIFICATION  
NO SCALE



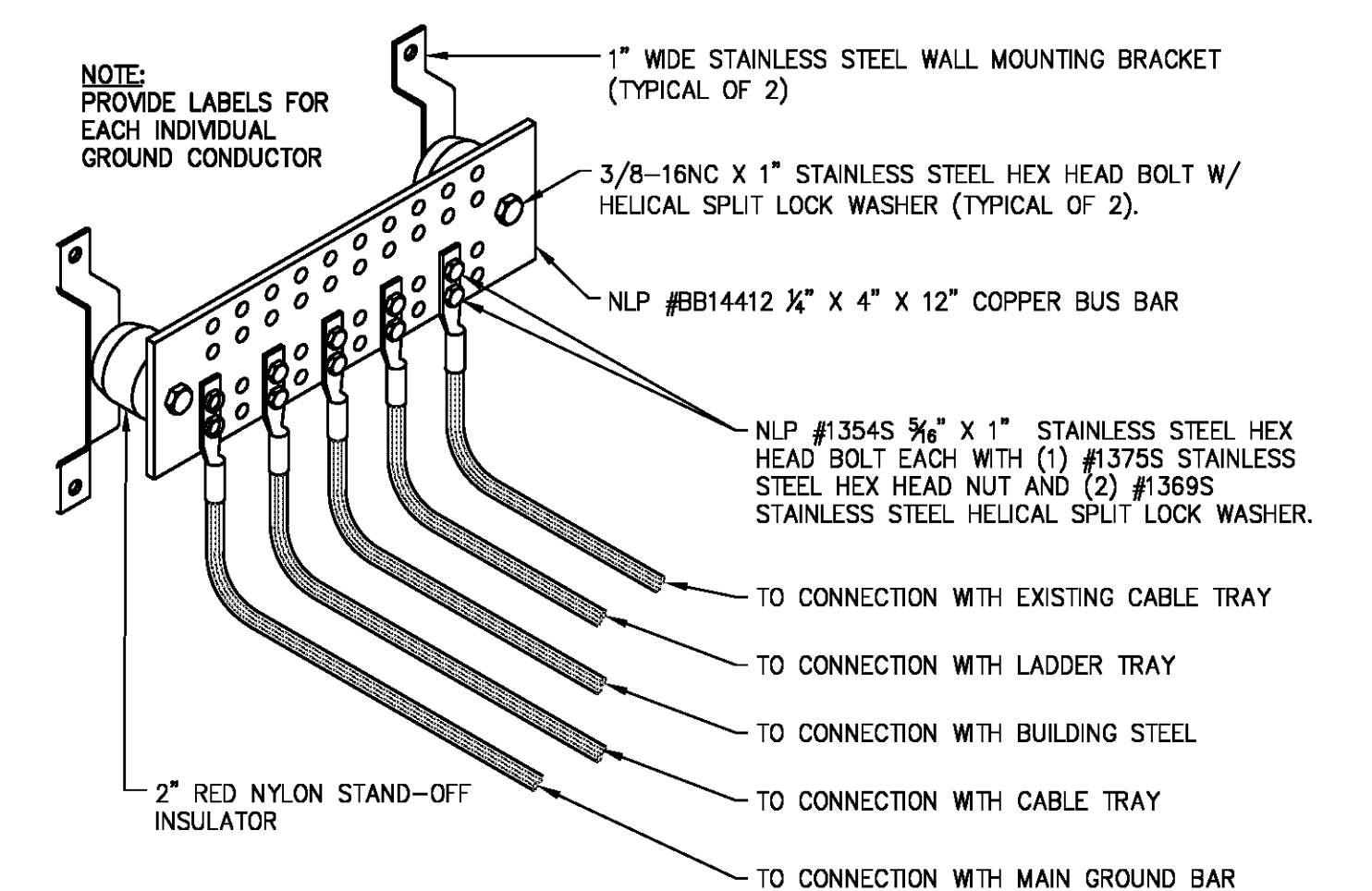
**K** MOUNTING HEIGHTS OF DEVICES  
NO SCALE



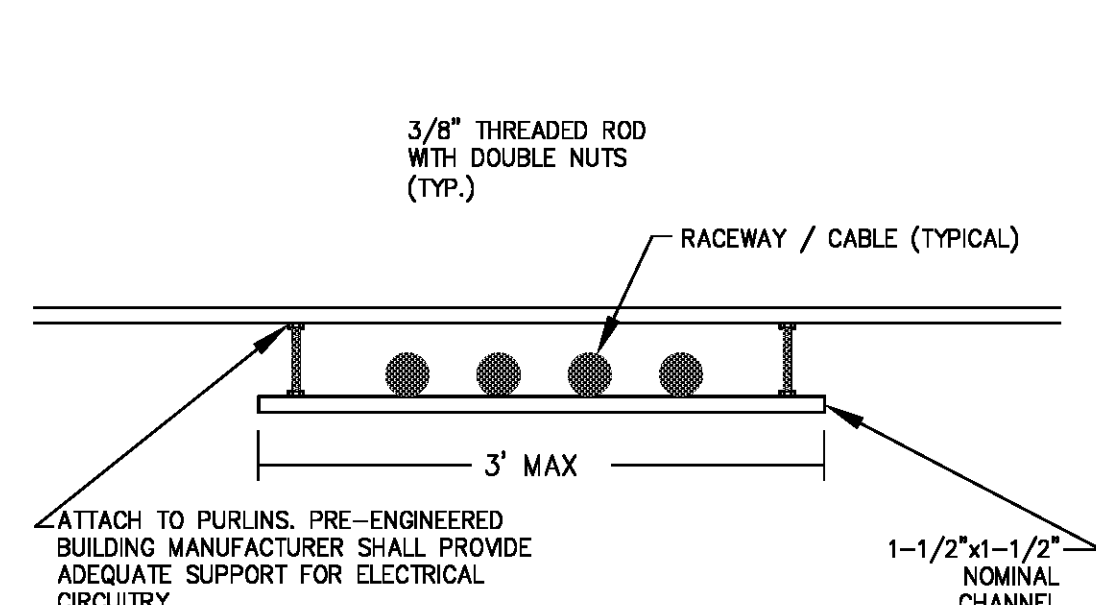
**N** MOUNTING HEIGHTS OF DEVICES DETAIL - FIRE ALARM  
NO SCALE



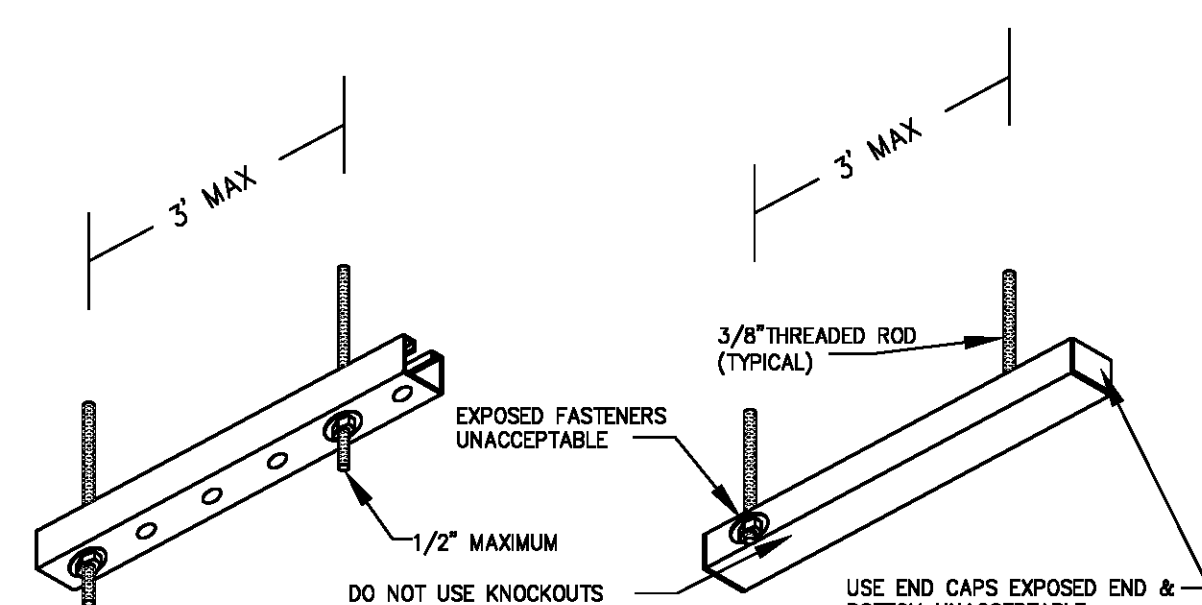
**L** LIGHT FIXTURE MOUNTING DETAIL  
SCALE: N/A



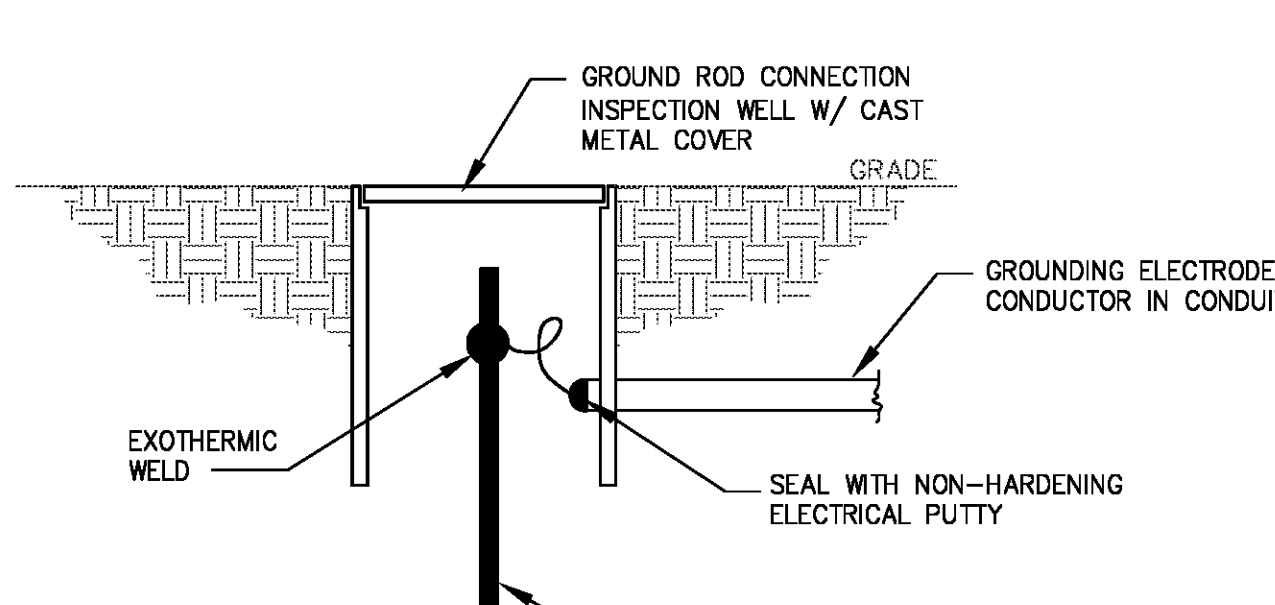
**M** DATA ROOM GROUND BAR  
NO SCALE



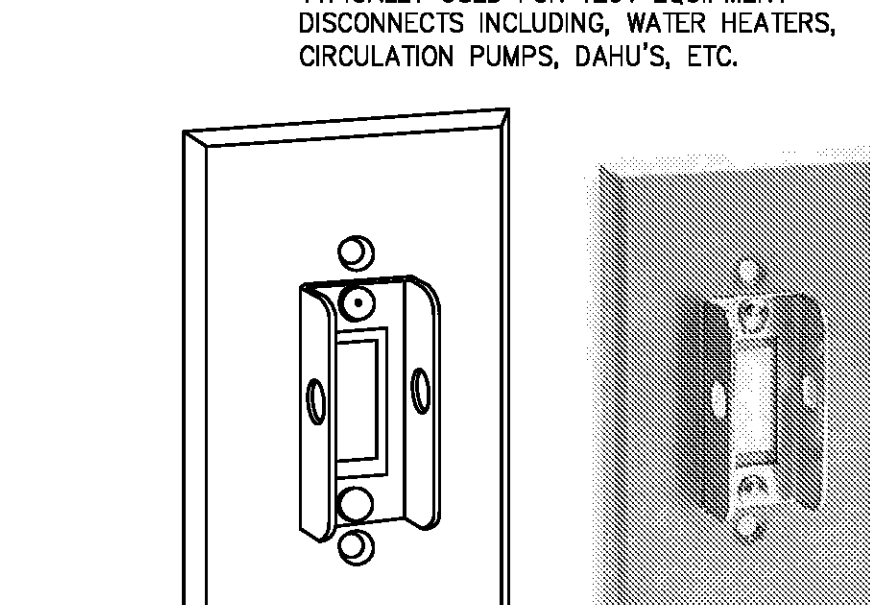
**P** CHANNEL SUPPORT DETAIL  
NO SCALE



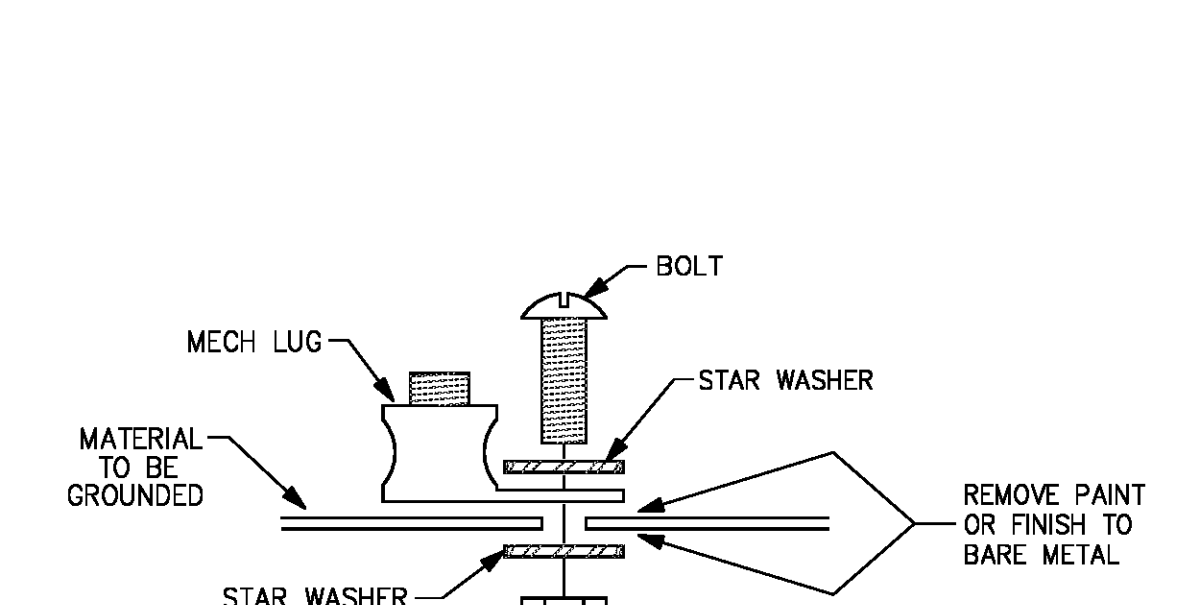
**Q** CHANNEL MOUNTING DETAILS  
NO SCALE



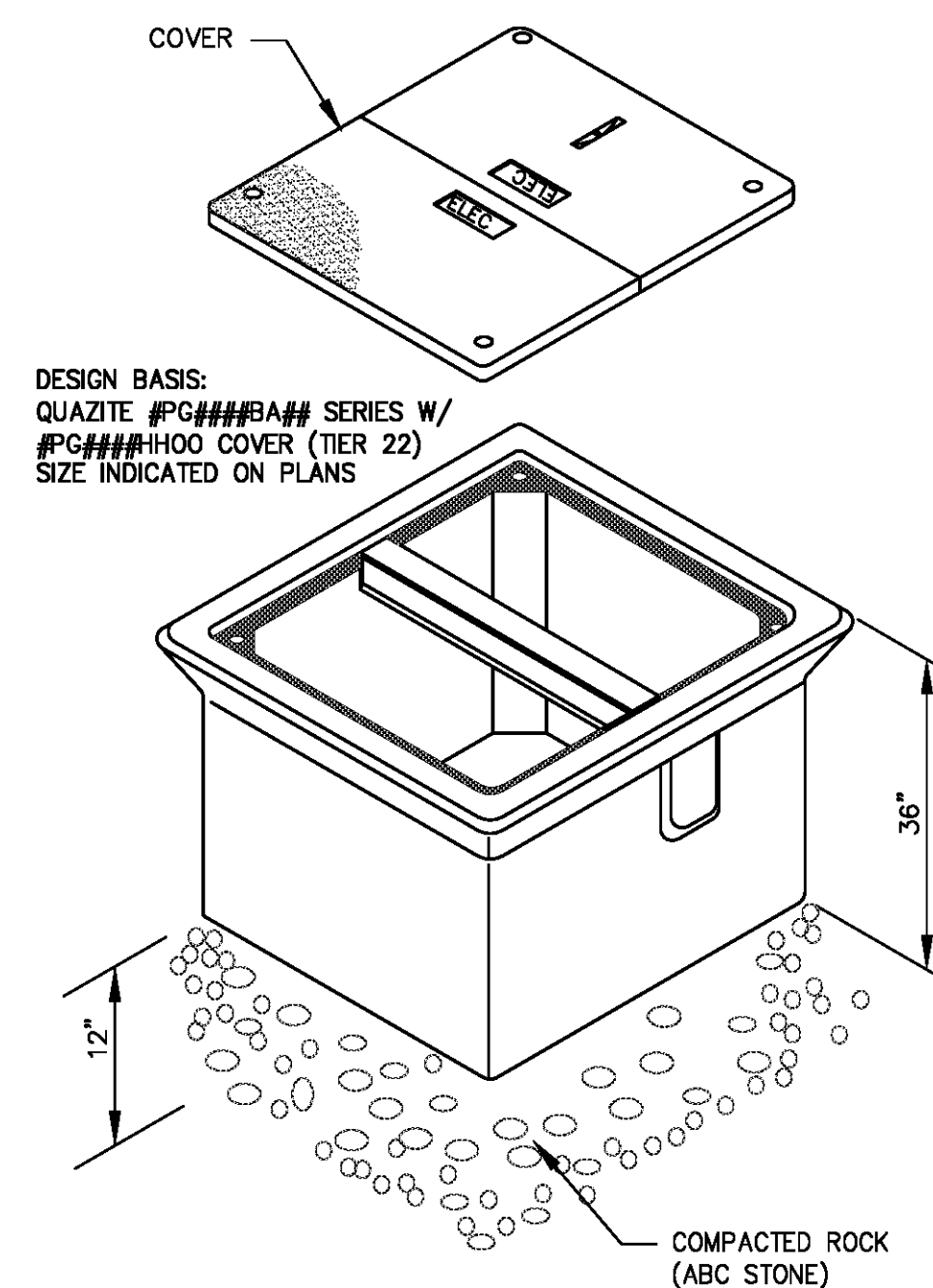
**R** GROUND ROD & INSPECTION WELL  
NO SCALE



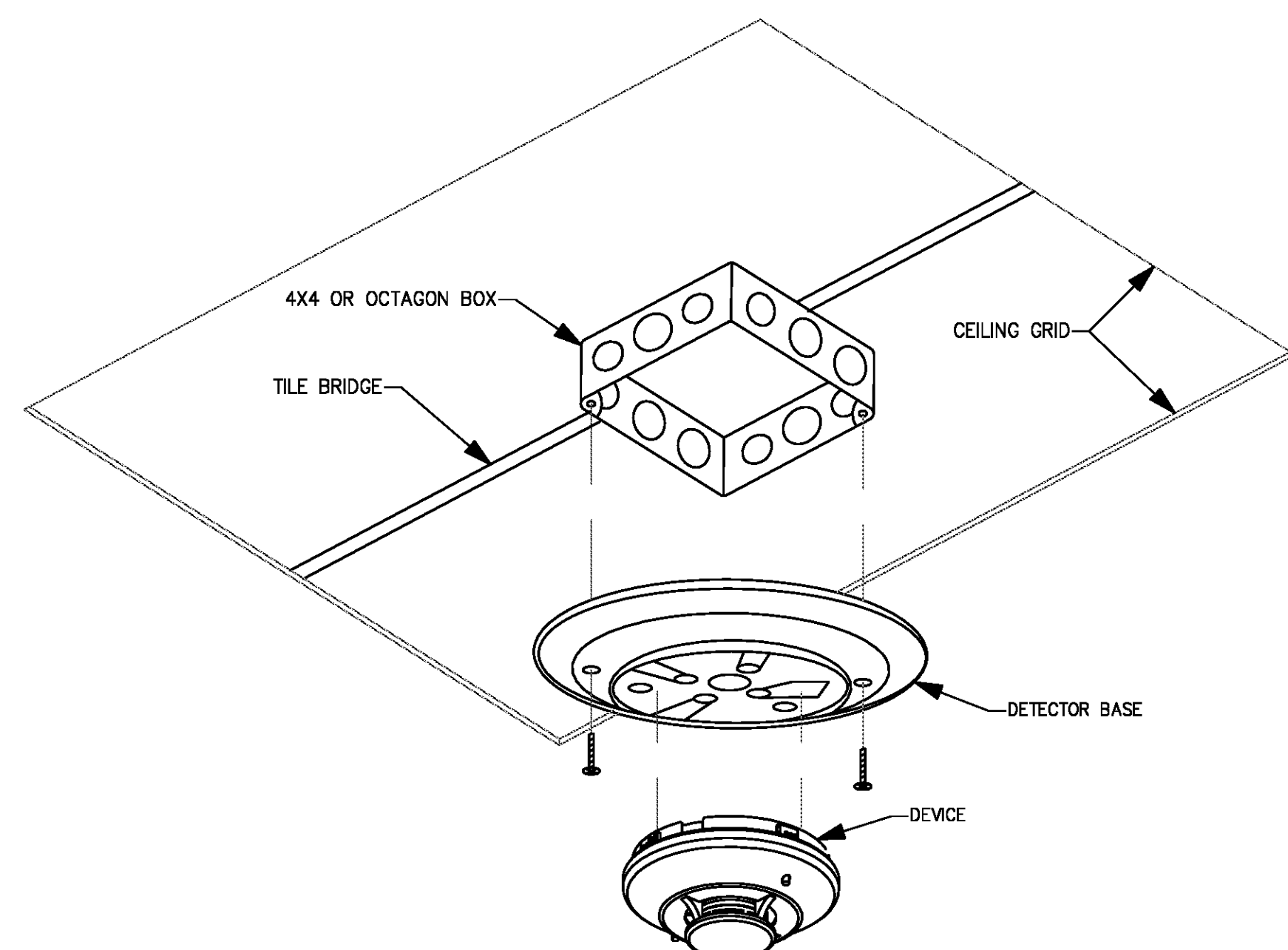
**S** LOCKABLE TOGGLE SWITCH COVER  
NO SCALE



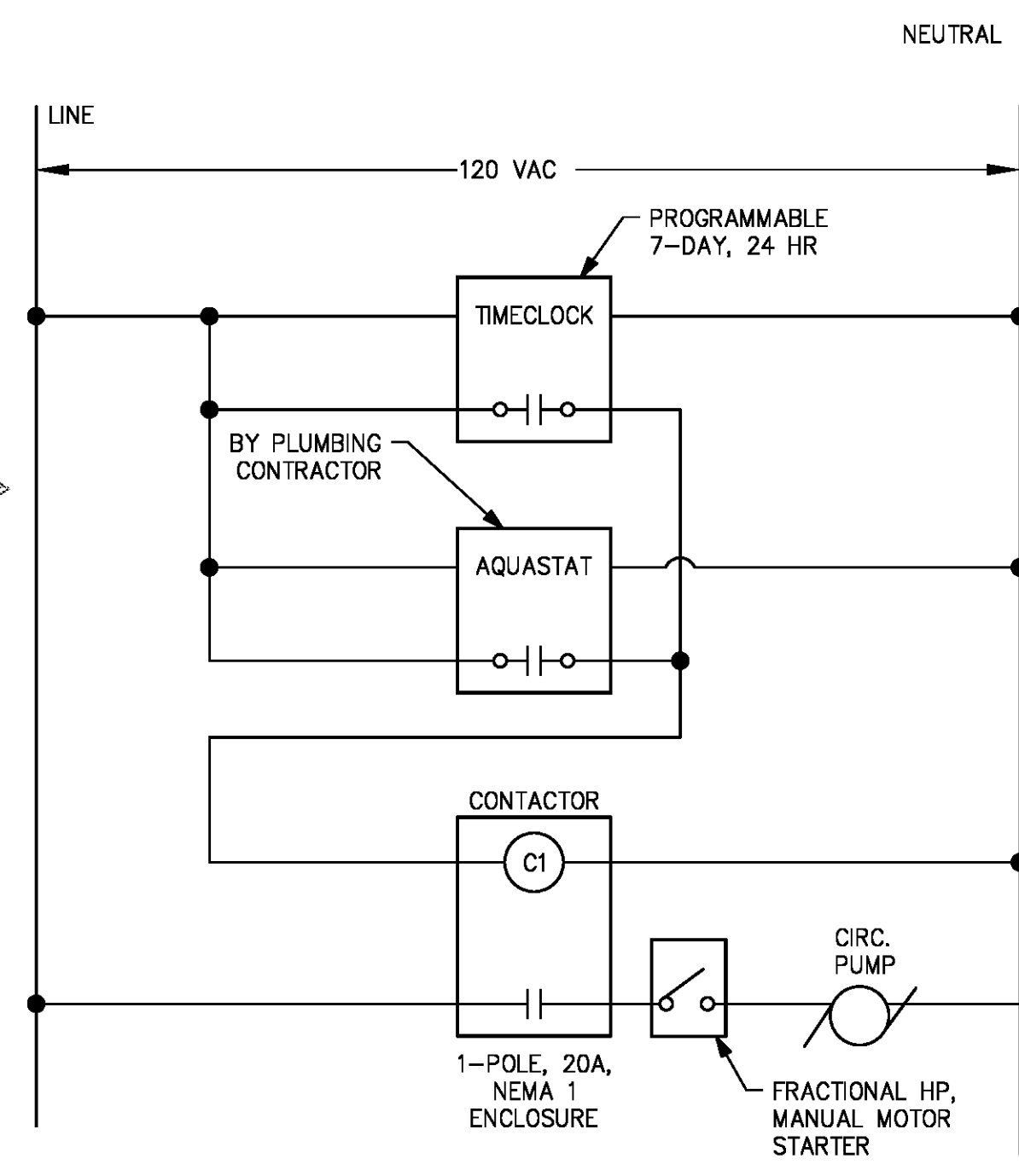
**T** GROUNDING LUG DETAIL  
NO SCALE



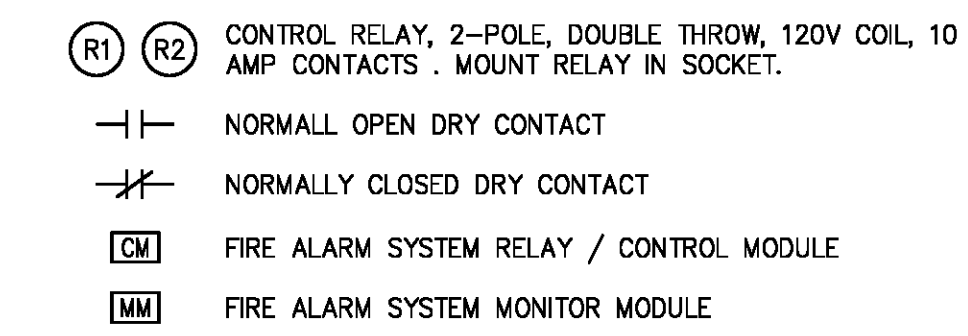
**A** TYPICAL HANDHOLE DETAIL  
NO SCALE



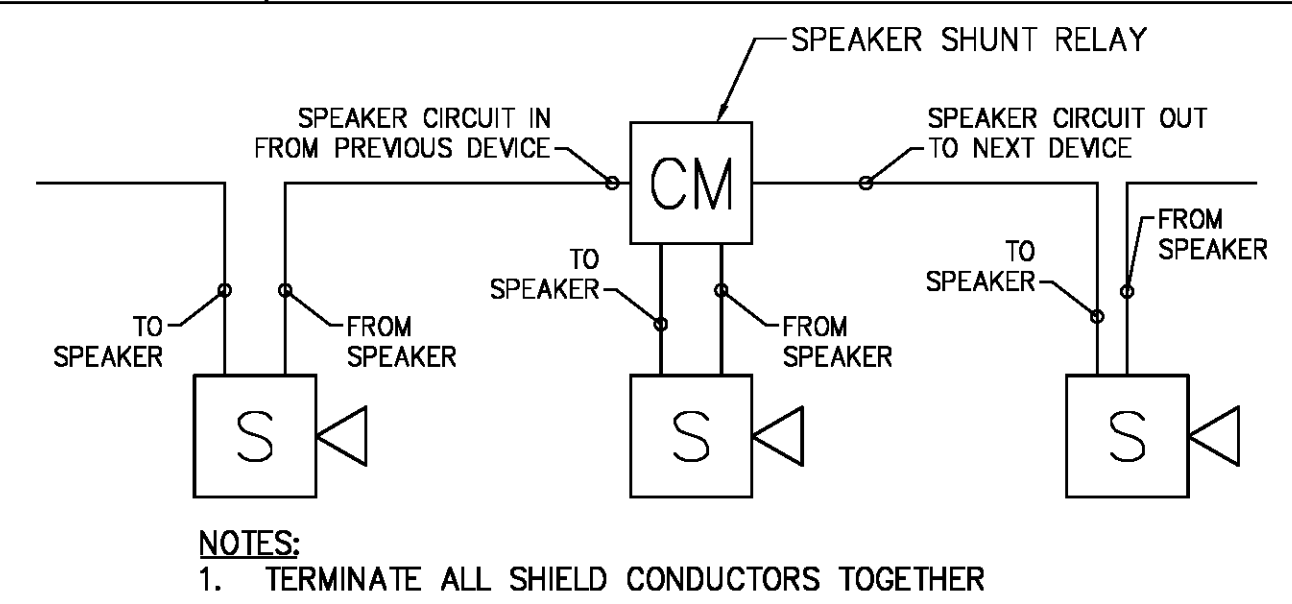
**B** DEVICE MOUNTING DETAIL  
NO SCALE



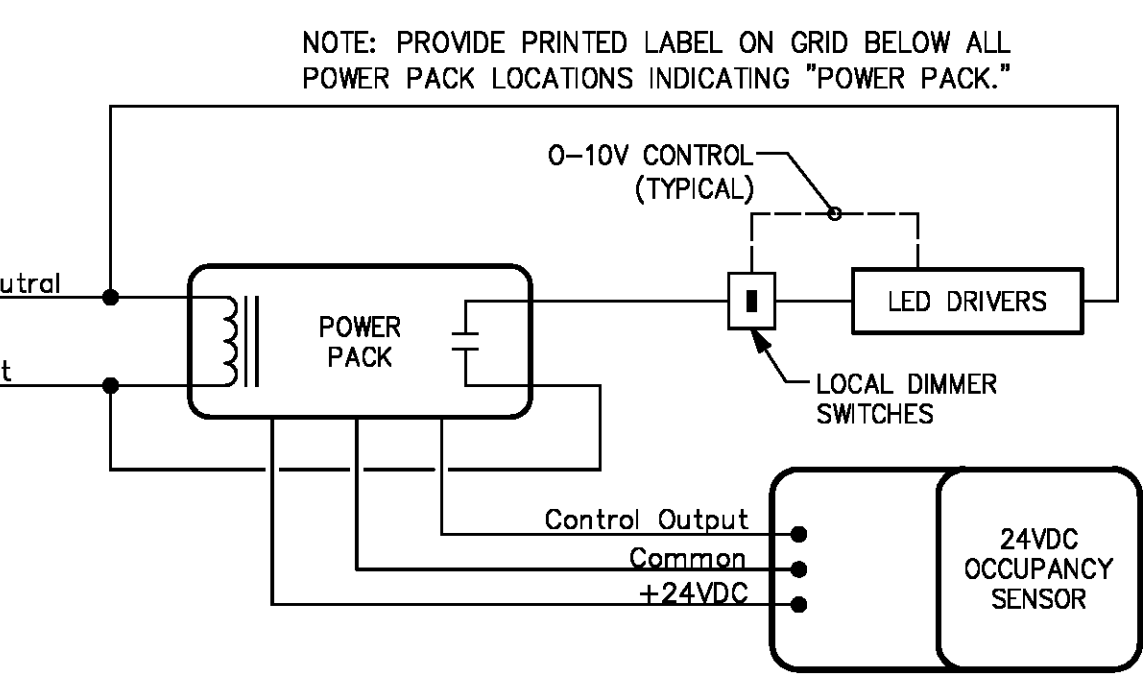
**C** CIRCULATION PUMP CONTROL SCHEMATIC  
NO SCALE



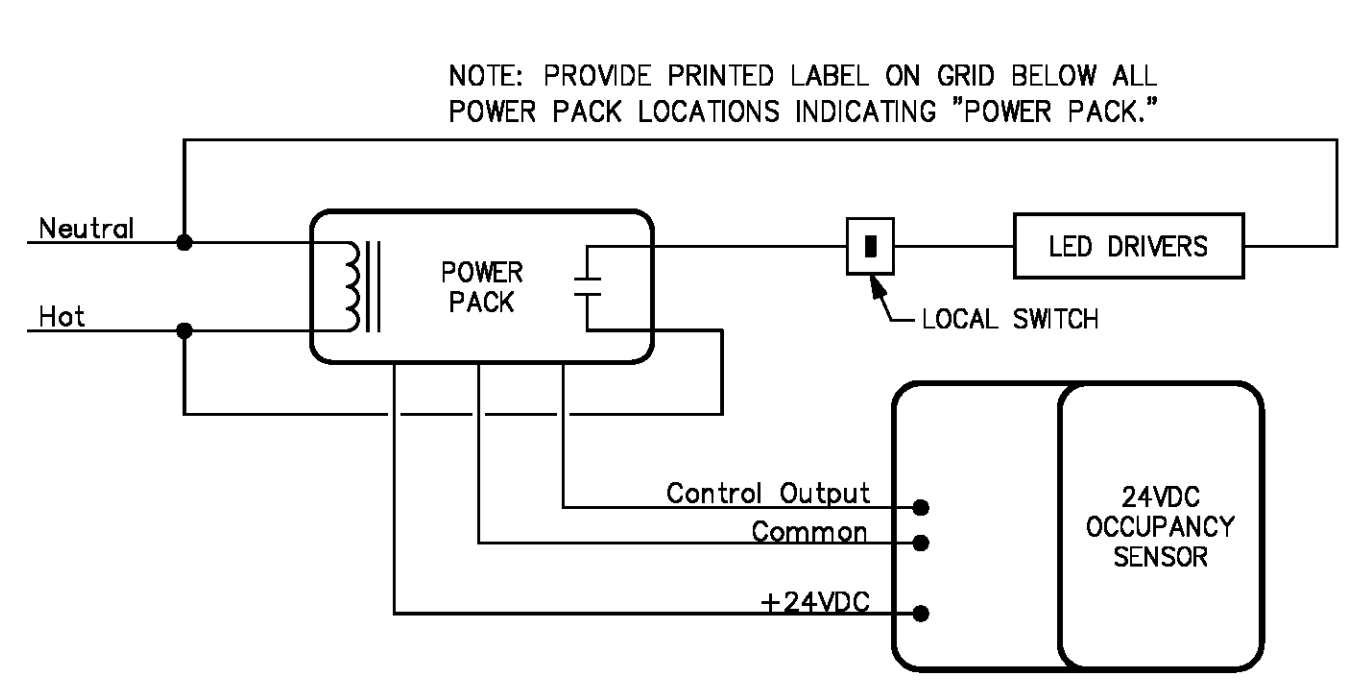
**D** ELEVATOR SHUNT TRIP / FIRE ALARM SYSTEM INTERFACE  
SCALE: N/A



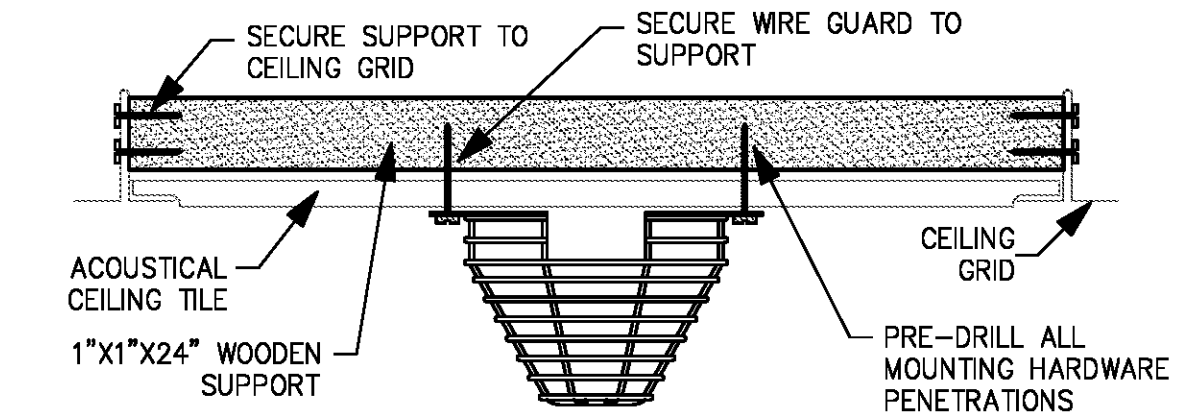
**E** SPEAKER SHUNT TRIP RELAY DETAIL  
NO SCALE



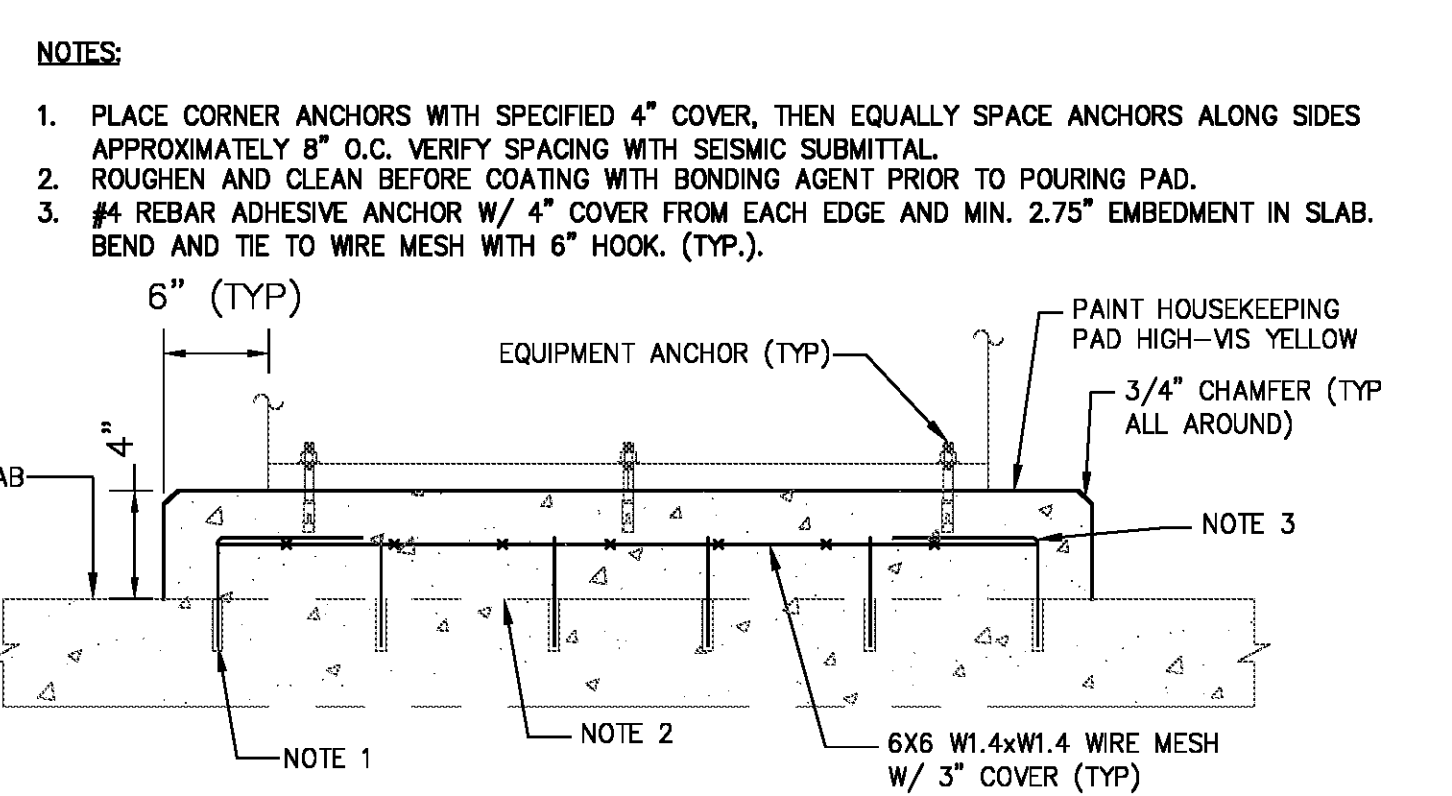
**F** OCCUPANCY SENSOR WIRING FOR DIMMING LEVEL LIGHTING CONTROL  
NO SCALE



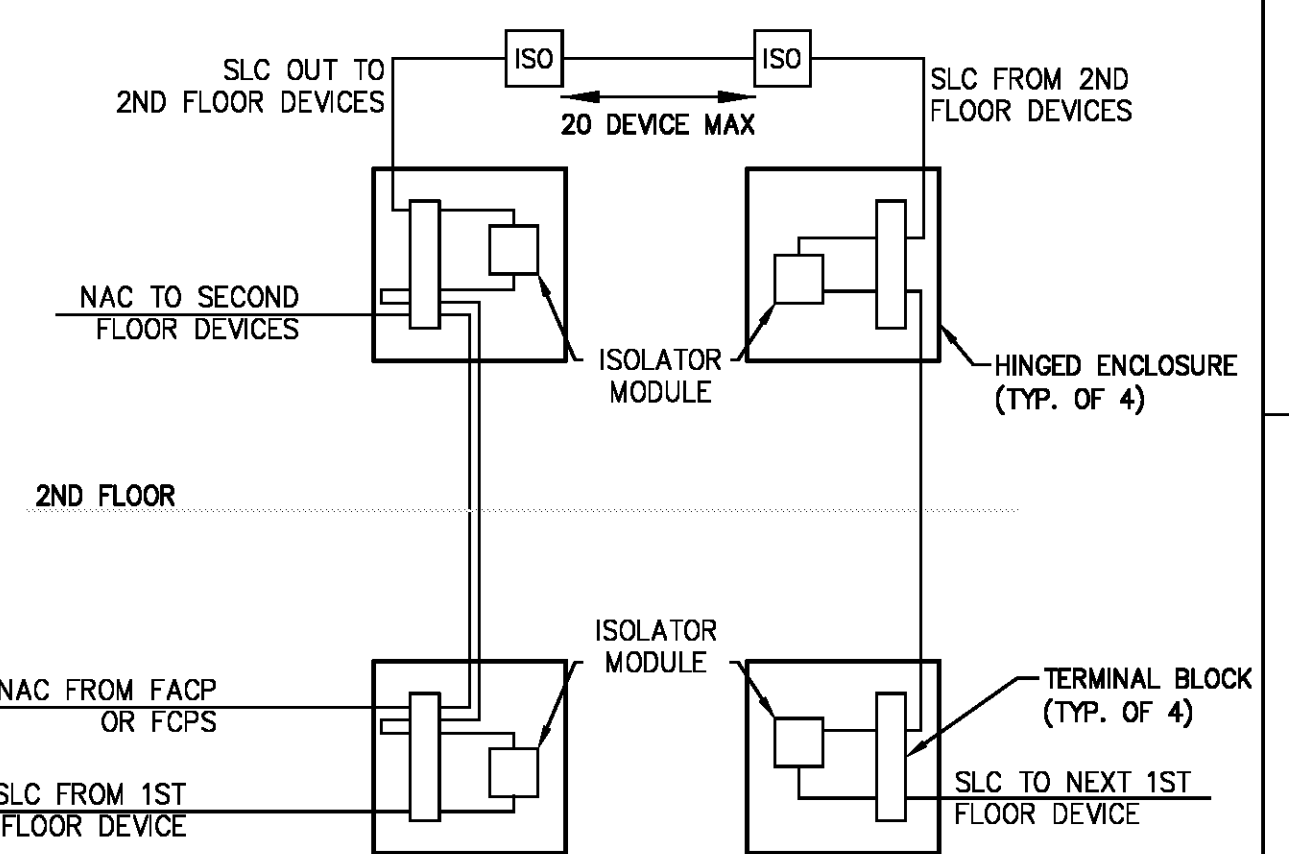
**G** OCCUPANCY SENSOR WIRING LIGHTING CONTROL  
NO SCALE



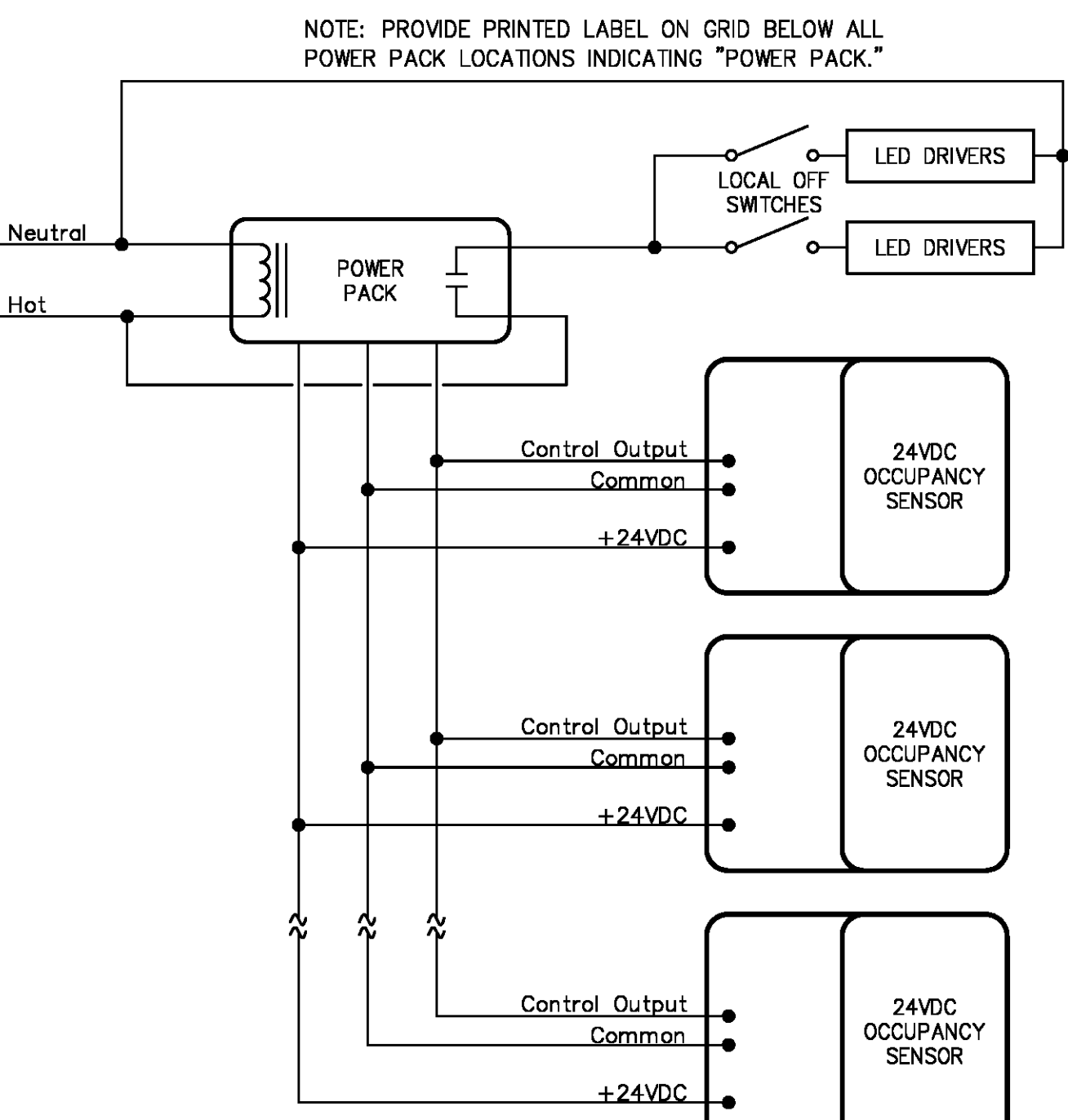
**H** CEILING MOUNTED GUARD DETAIL  
NO SCALE



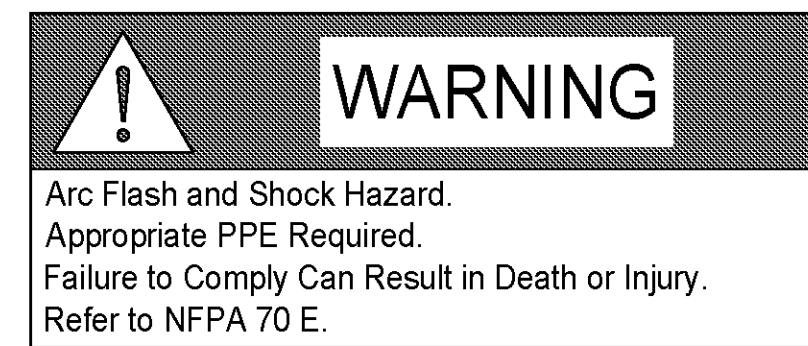
**I** TYPICAL HOUSEKEEPING PAD DETAIL  
NO SCALE



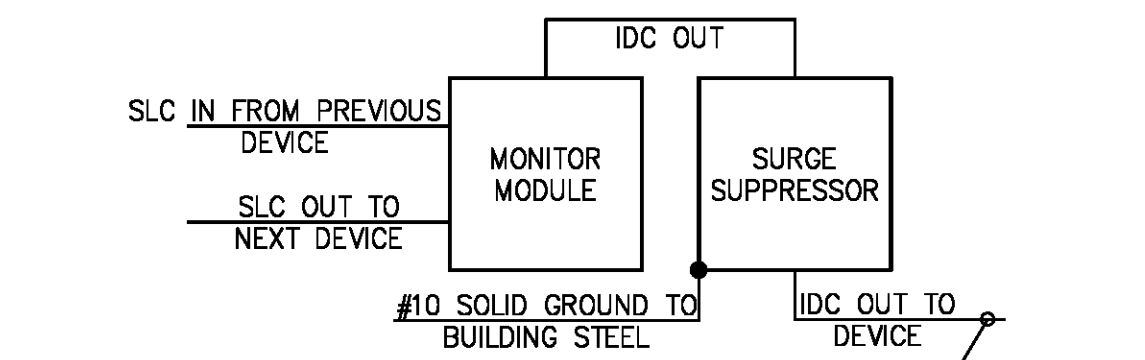
**L** SLC ISOLATION BETWEEN FLOORS DETAIL  
NO SCALE



**K** OCCUPANCY SENSOR WIRING FOR DUAL LEVEL LIGHTING CONTROL  
NO SCALE

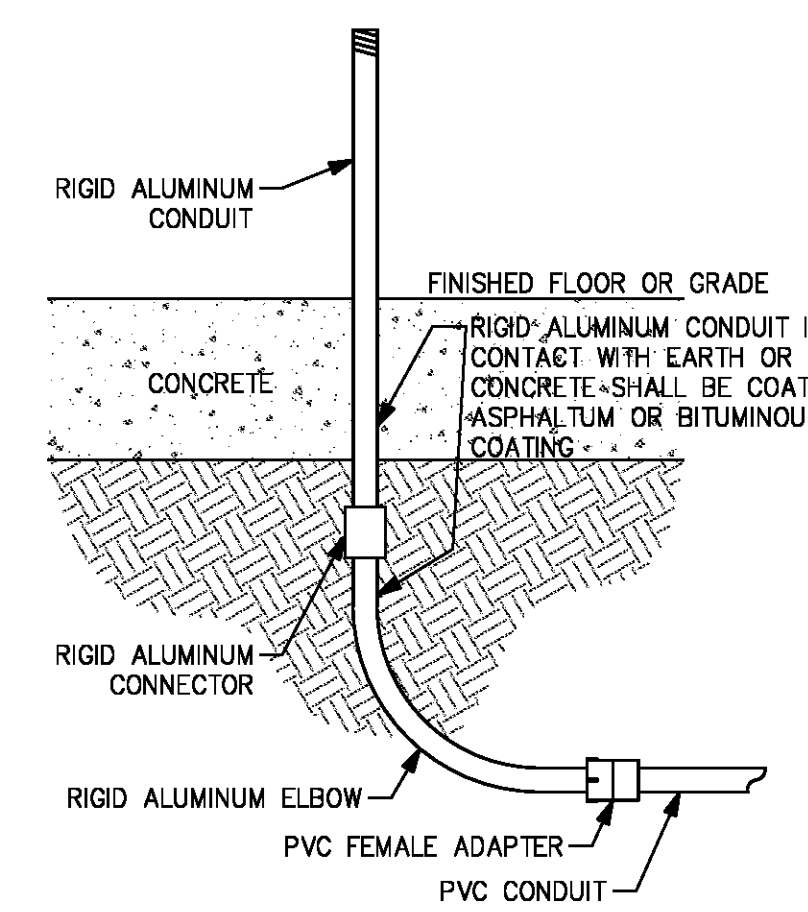


**R** GENERIC ARC FLASH LABEL FOR ALL ELECTRICAL EQUIPMENT  
NO SCALE

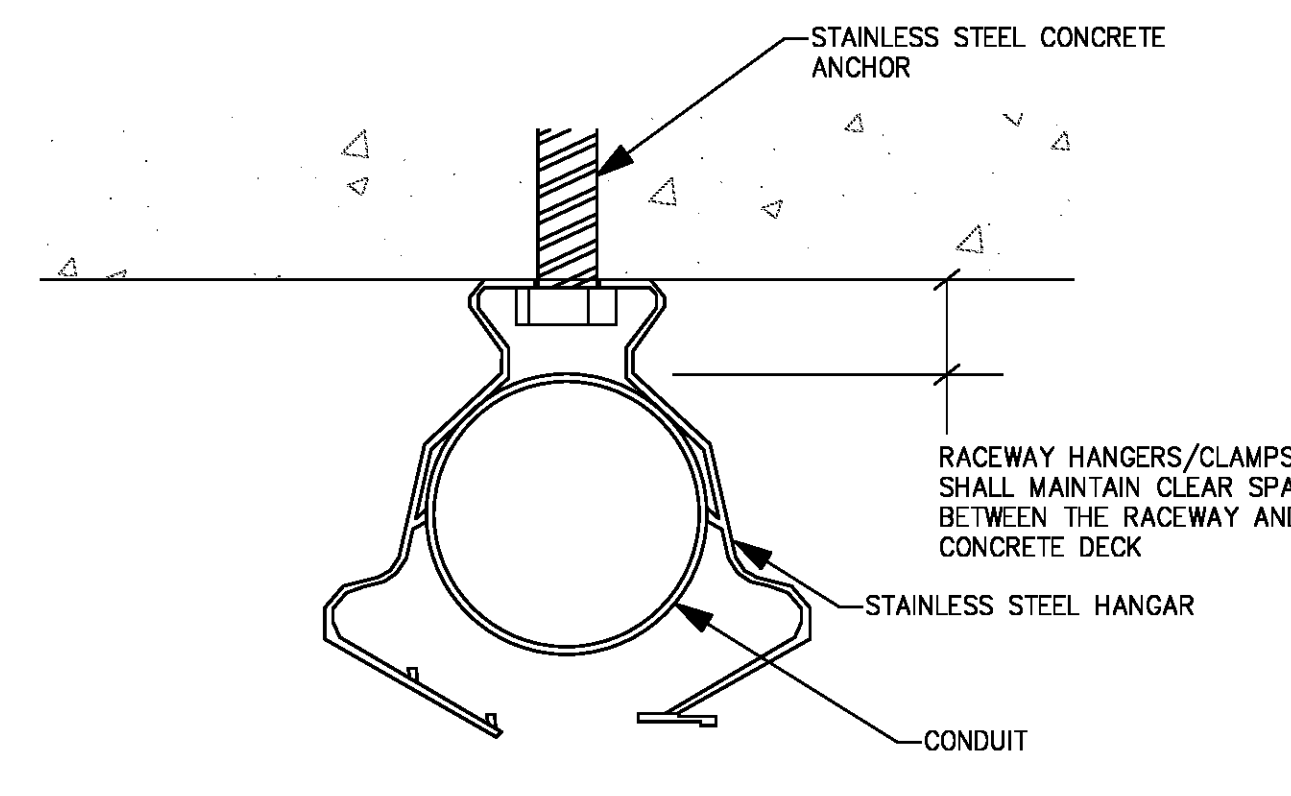


**Q** FIRE ALARM IDC SURGE SUPPRESSION DETAIL  
NO SCALE

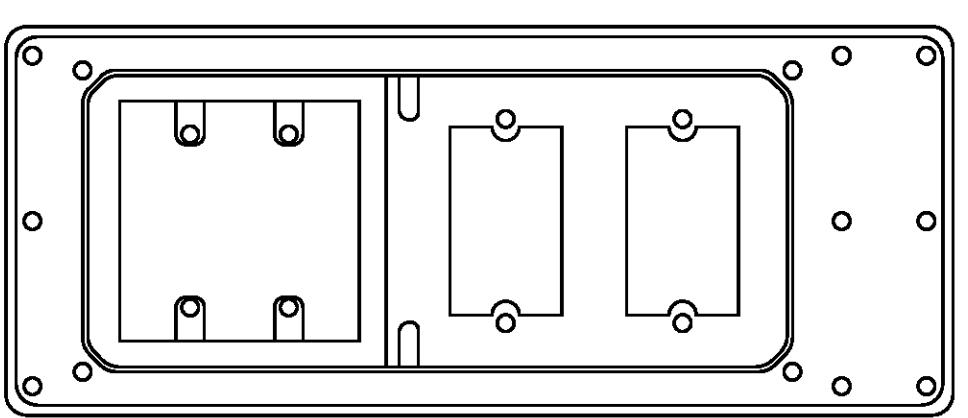
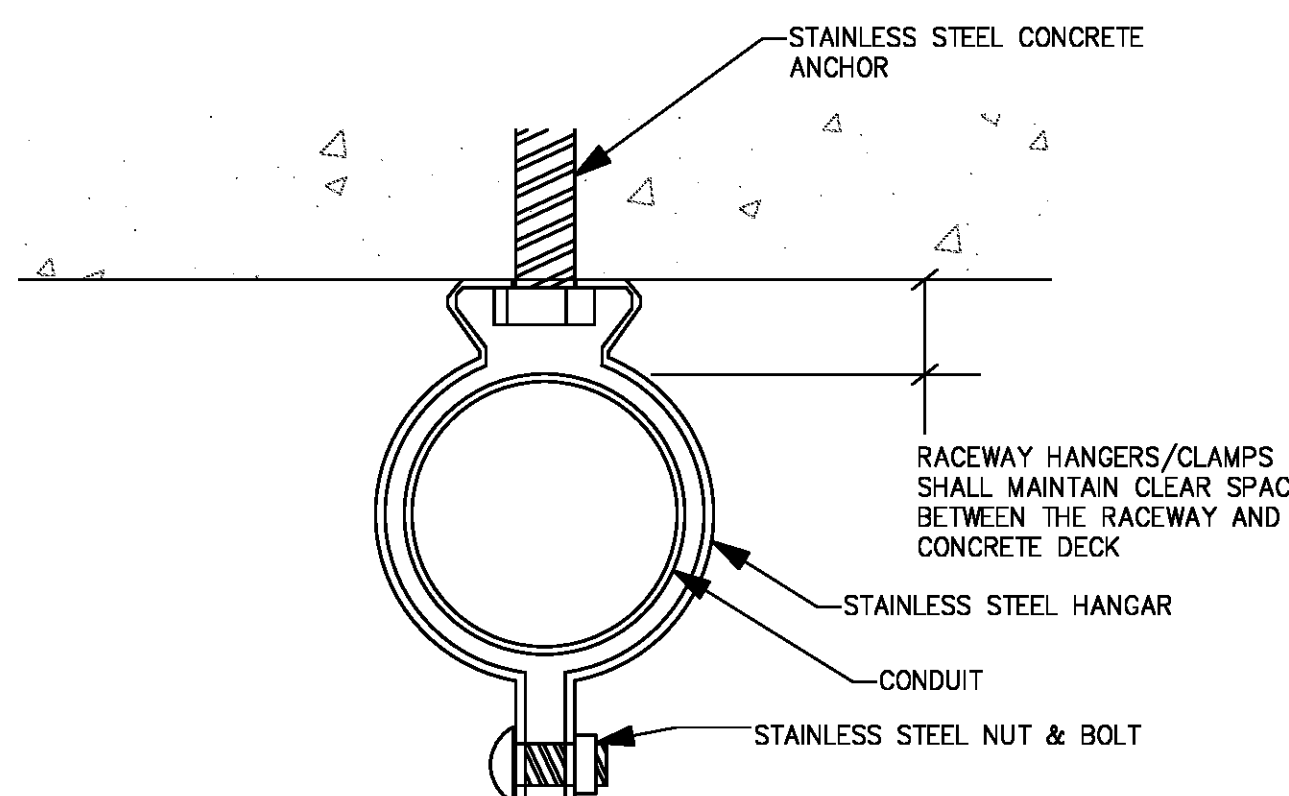
**M** CONDUIT STUB-UP  
NO SCALE



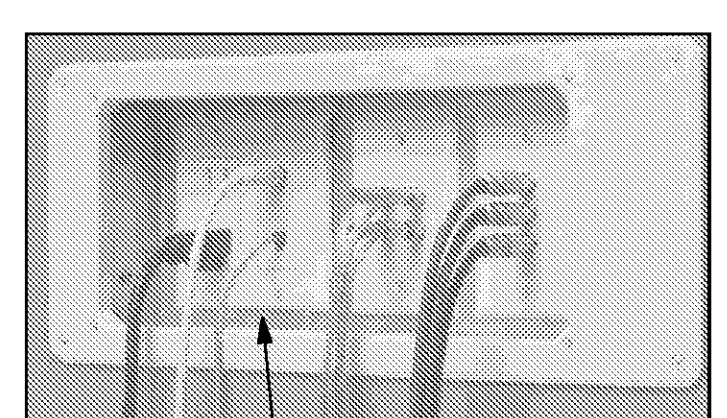
**N** RACEWAY MOUNTING UNDER CONCRETE DECK  
NO SCALE



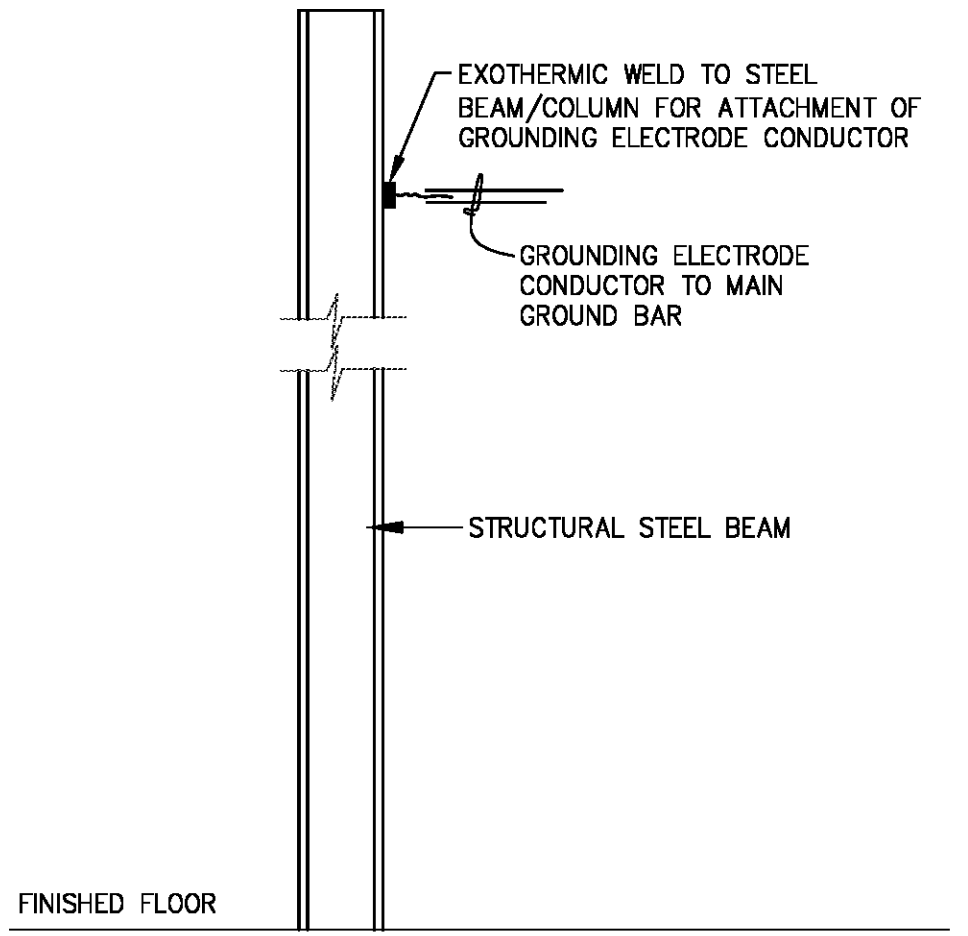
**P** RACEWAY MOUNTING UNDER CONCRETE DECK  
NO SCALE



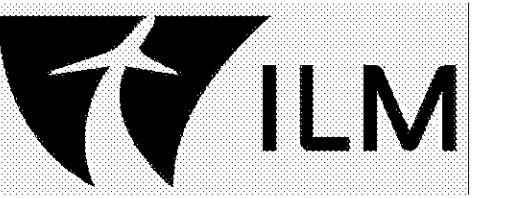
**S** TV MONITOR OUTLET BOX DETAIL  
NO SCALE



DESIGN BASIS: ARLINGTON TVB5613  
APPROVED EQUIVALENTS BY ALTERNATE MANUFACTURERS ARE ACCEPTABLE.



**T** STEEL COLUMN GROUNDING DETAIL  
NO SCALE

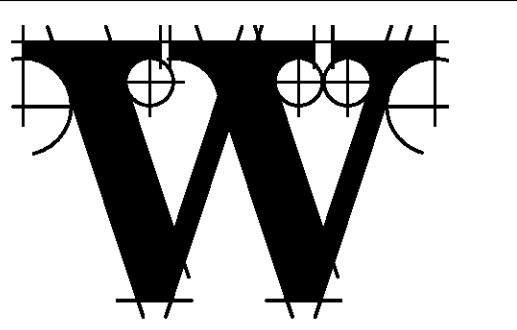


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JOB # 19005



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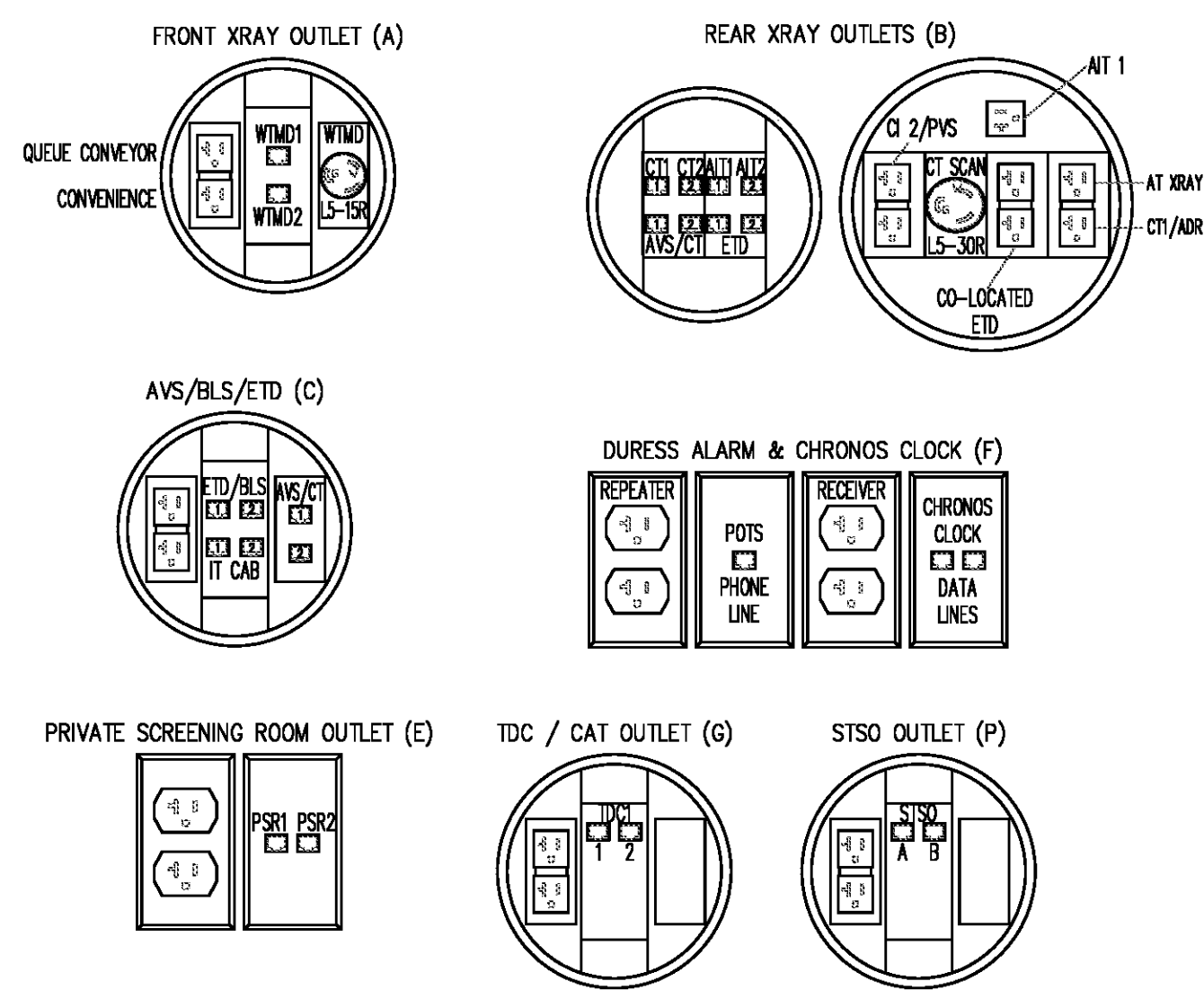
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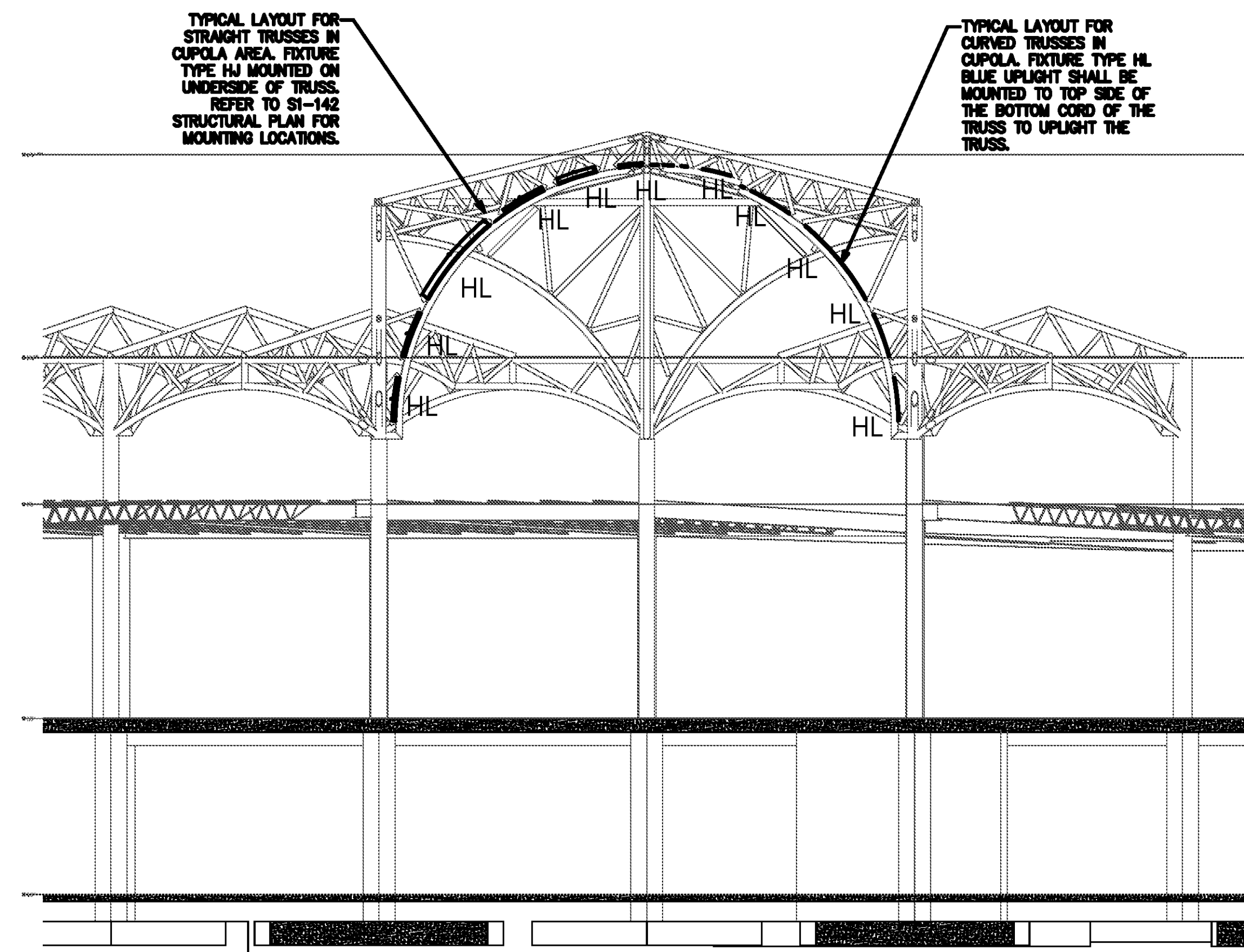
DATE 06/28/19  
PROJECT NUMBER 9202-000  
SHEET TITLE

**ELECTRICAL DETAILS**

SHEET NUMBER  
**E-502**

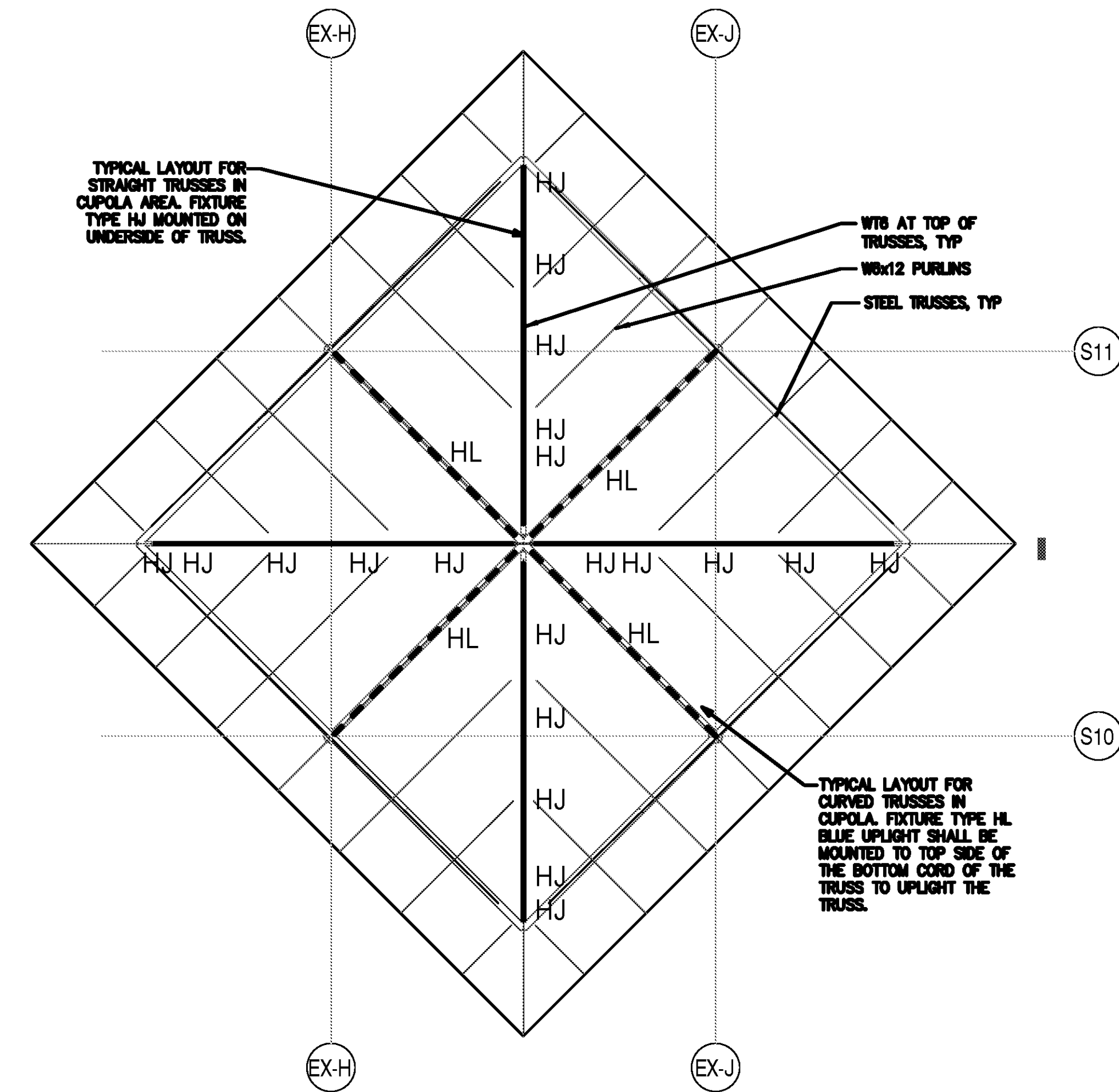


**A** TSA OUTLETS DETAIL  
NO SCALE



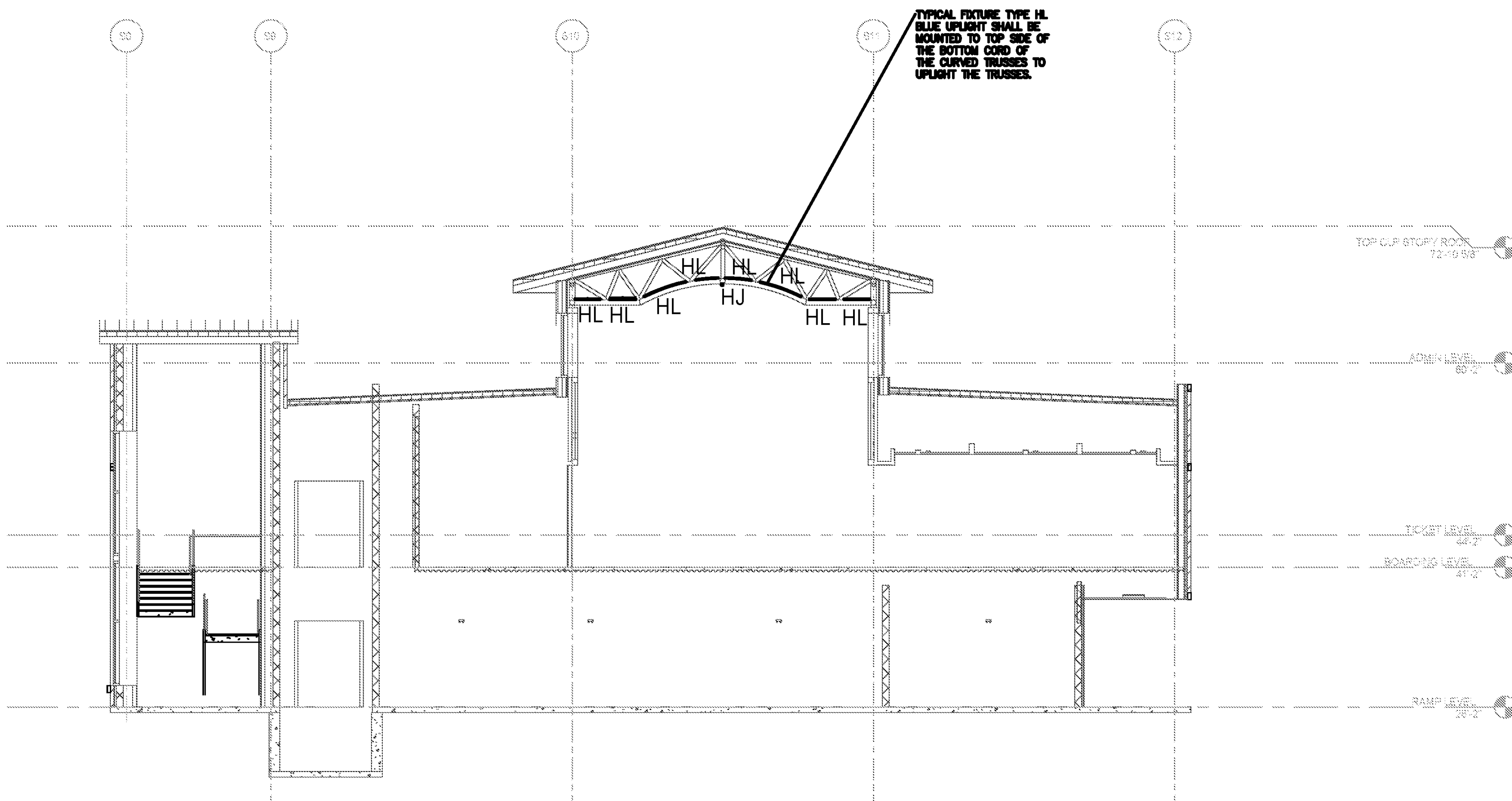
**B** LIGHT FIXTURE TYPE HL MOUNTING DETAIL  
SCALE: NO SCALE

NOTE: LIGHTING FIXTURE SELECTION AND DETAIL WAS DESIGNED BY HARTRANFT LIGHTING DESIGN. INCLUSION HERE IS NOT INTENDED TO REPRESENT THAT THE FIXTURE SELECTION AND DETAIL IS THE WORK PRODUCT OF CHEATHAM & ASSOCIATES, PA.



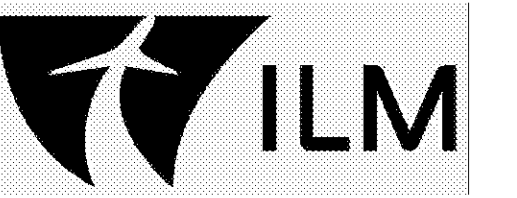
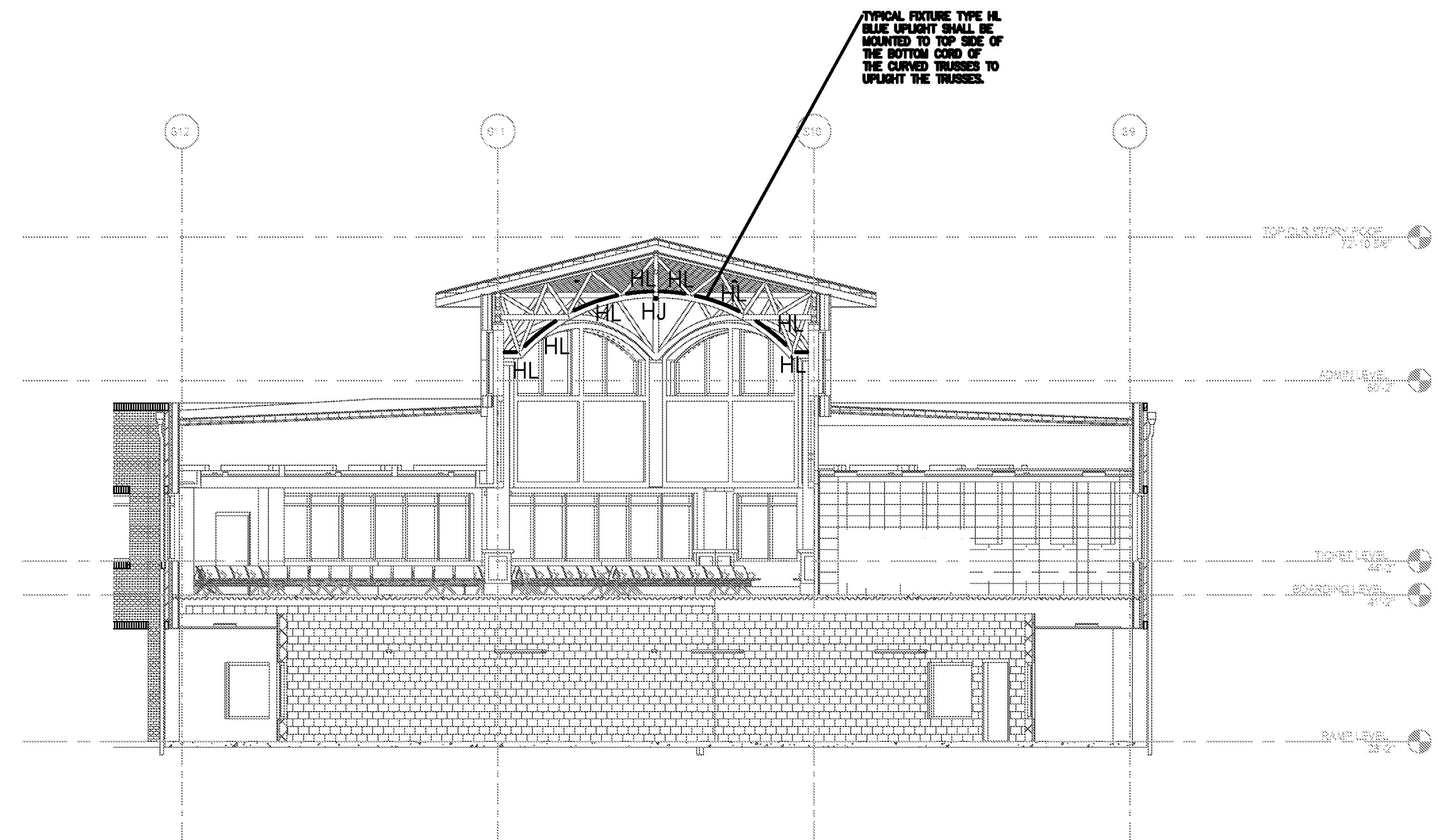
**C** LIGHT FIXTURE TYPE HJ MOUNTING DETAIL  
SCALE: NO SCALE

NOTE: LIGHTING FIXTURE SELECTION AND DETAIL WAS DESIGNED BY HARTRANFT LIGHTING DESIGN. INCLUSION HERE IS NOT INTENDED TO REPRESENT THAT THE FIXTURE SELECTION AND DETAIL IS THE WORK PRODUCT OF CHEATHAM & ASSOCIATES, PA.



**D** LIGHT FIXTURE TYPE HL MOUNTING DETAIL  
SCALE: NO SCALE

NOTE: LIGHTING FIXTURE SELECTION AND DETAIL WAS DESIGNED BY HARTRANFT LIGHTING DESIGN. INCLUSION HERE IS NOT INTENDED TO REPRESENT THAT THE FIXTURE SELECTION AND DETAIL IS THE WORK PRODUCT OF CHEATHAM & ASSOCIATES, PA.

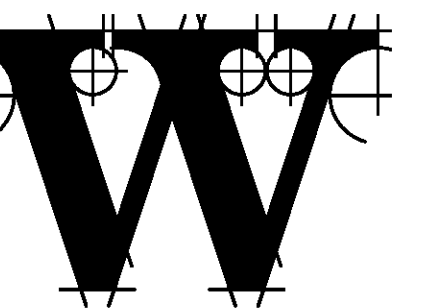
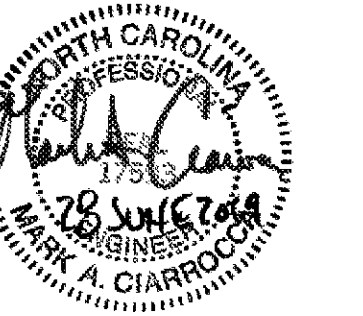


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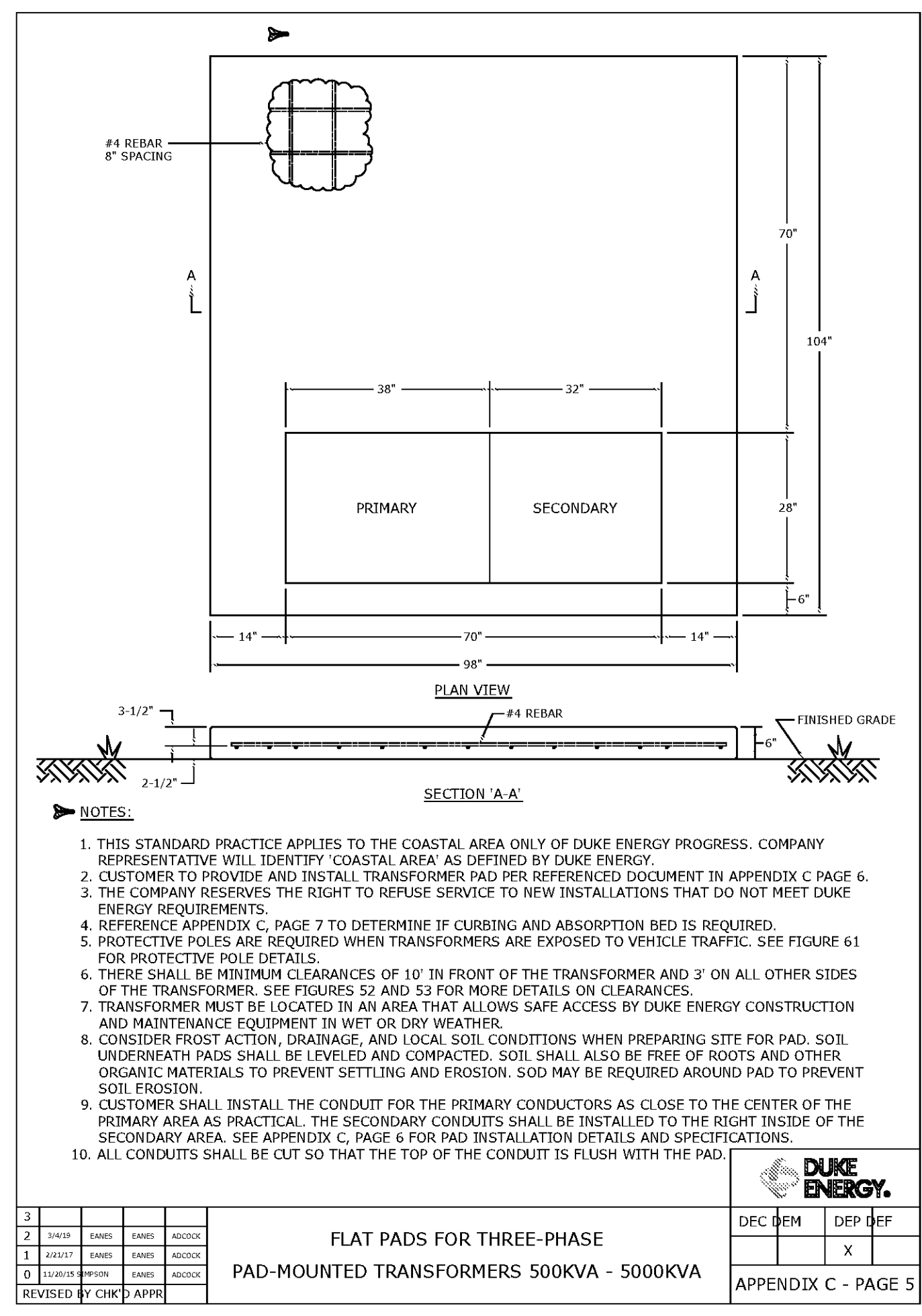
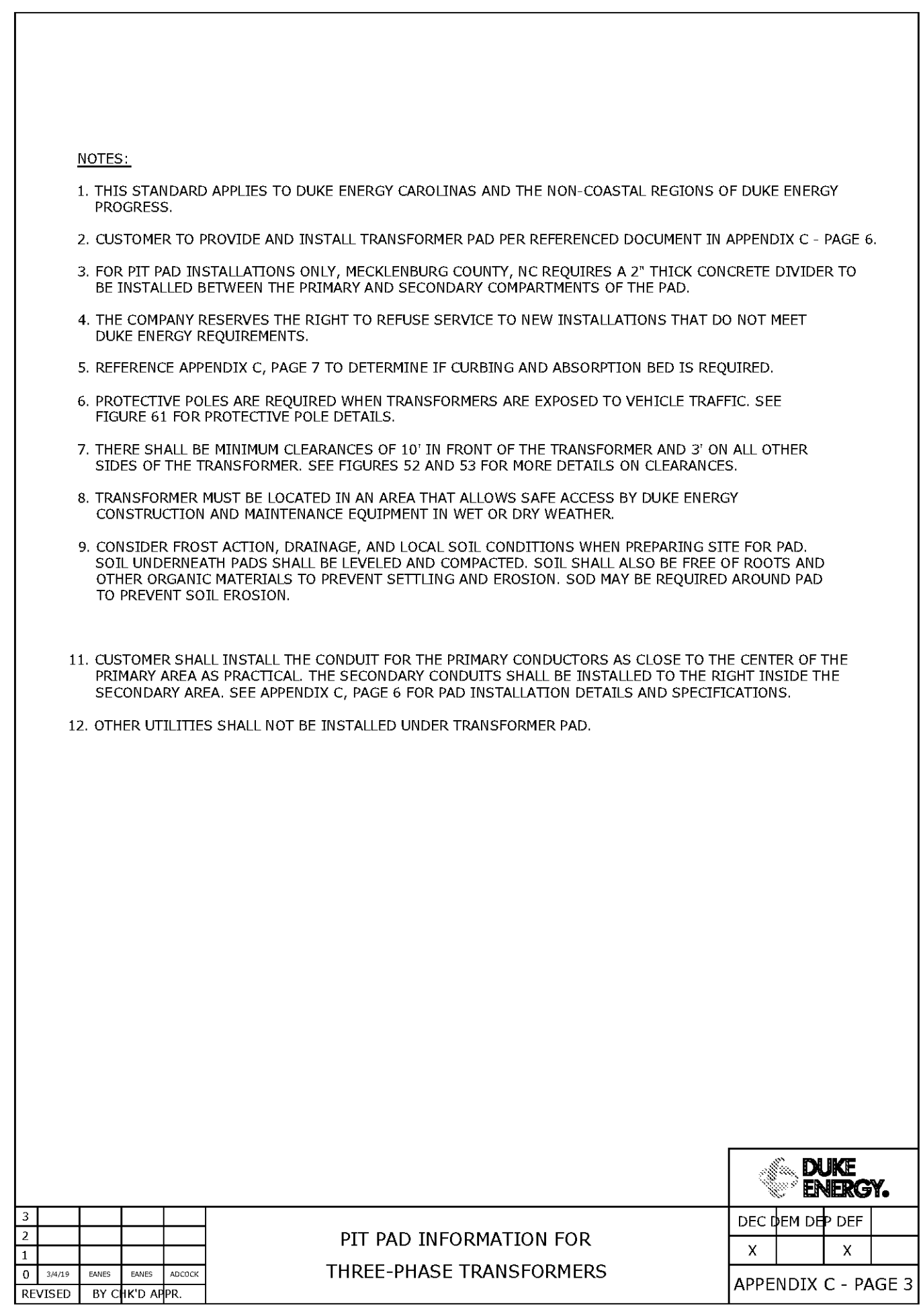
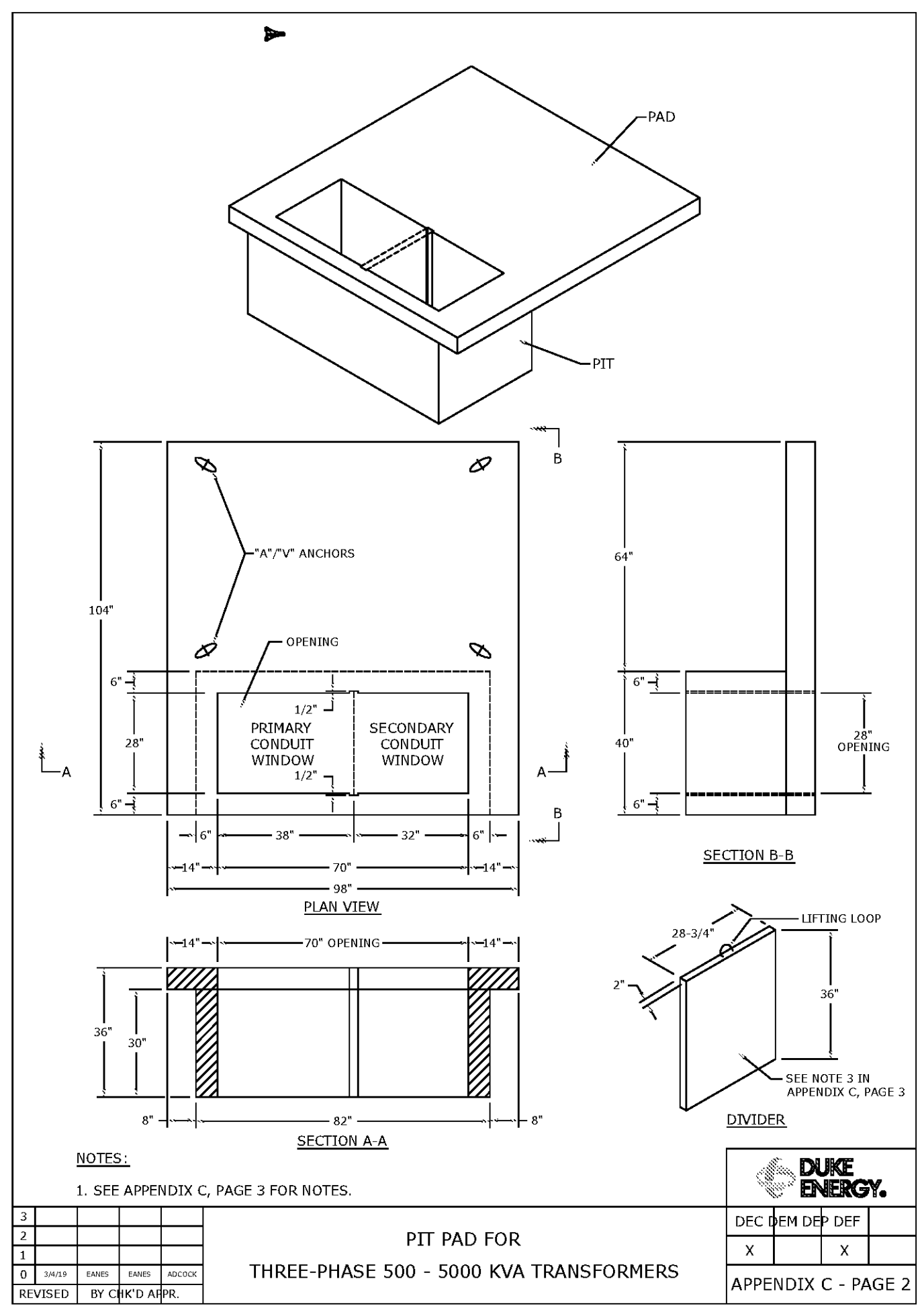
REVISIONS

DATE 06/28/19  
PROJECT NUMBER 9202-000  
SHEET TITLE

**ELECTRICAL DETAILS**

SHEET NUMBER

**E-503**



**B**  
E-507  
OBSTRUCTION LIGHTING PHOTOCELL MOUNTING DETAIL  
NO SCALE

**C**  
E-504  
DUAL L-810 LED OBSTRUCTION LIGHT  
NO SCALE

THE LINK BELOW WILL REFERENCE THE USER TO A DOCUMENT THAT DESCRIBES THE VARIOUS TYPES OF CONCRETE THREE-PHASE TRANSFORMER PADS USED, WHICH TRANSFORMER SIZES THEY ARE USED FOR, AND THE STYLE (FLAT OR PIT PAD) THAT IS APPROPRIATE FOR THE SIZE OF SERVICE.

FOR DEC AND DEP SERVICE AREAS:  
<https://www.duke-energy.com/media/pdfs/partner-with-us/padinfo/transformer-concretefoundations.pdf>

FOR MECKLENBURG COUNTY, NC ONLY:  
<https://www.duke-energy.com/media/pdfs/partner-with-us/padinfo/transformer-concretefoundations.pdf>

ADDITIONALLY, CERTAIN PROVIDERS OF PRE-CAST CONCRETE PRODUCTS PROVIDE PRE-CAST VERSIONS OF THE FLAT AND PIT PAD DESIGNS DESCRIBED IN THESE DOCUMENTS. DUKE ENERGY DOES NOT ENDORSE ANY SPECIFIC VENDOR VERSIONS, HOWEVER, BUT HAS APPROVED THE FOLLOWING PRE-CAST CONCRETE PAD SUPPLIERS FOR USE ON THE DUKE ENERGY SYSTEM. A DUKE ENERGY REPRESENTATIVE WILL INSPECT THESE INSTALLATIONS FOR THE SAME CONSTRUCTION STANDARDS AS A PAD POURED IN PLACE. PRIOR TO THE INSTALLATION OF THE TRANSFORMER, THE CUSTOMER MUST CONTACT THE DUKE ENERGY REPRESENTATIVE TO INSPECT THE PAD WHEN IT IS READY FOR THE TRANSFORMER TO BE INSTALLED.

**APPROVED SUPPLIERS OF PRE-FABRICATED CONCRETE PADS**

**ENCORE PRECAST**  
CONTACT: TIM WELSH  
PHONE: 513-726-5678 X22  
WEBSITE: WWW.ENCOREPRECASTLLC.COM

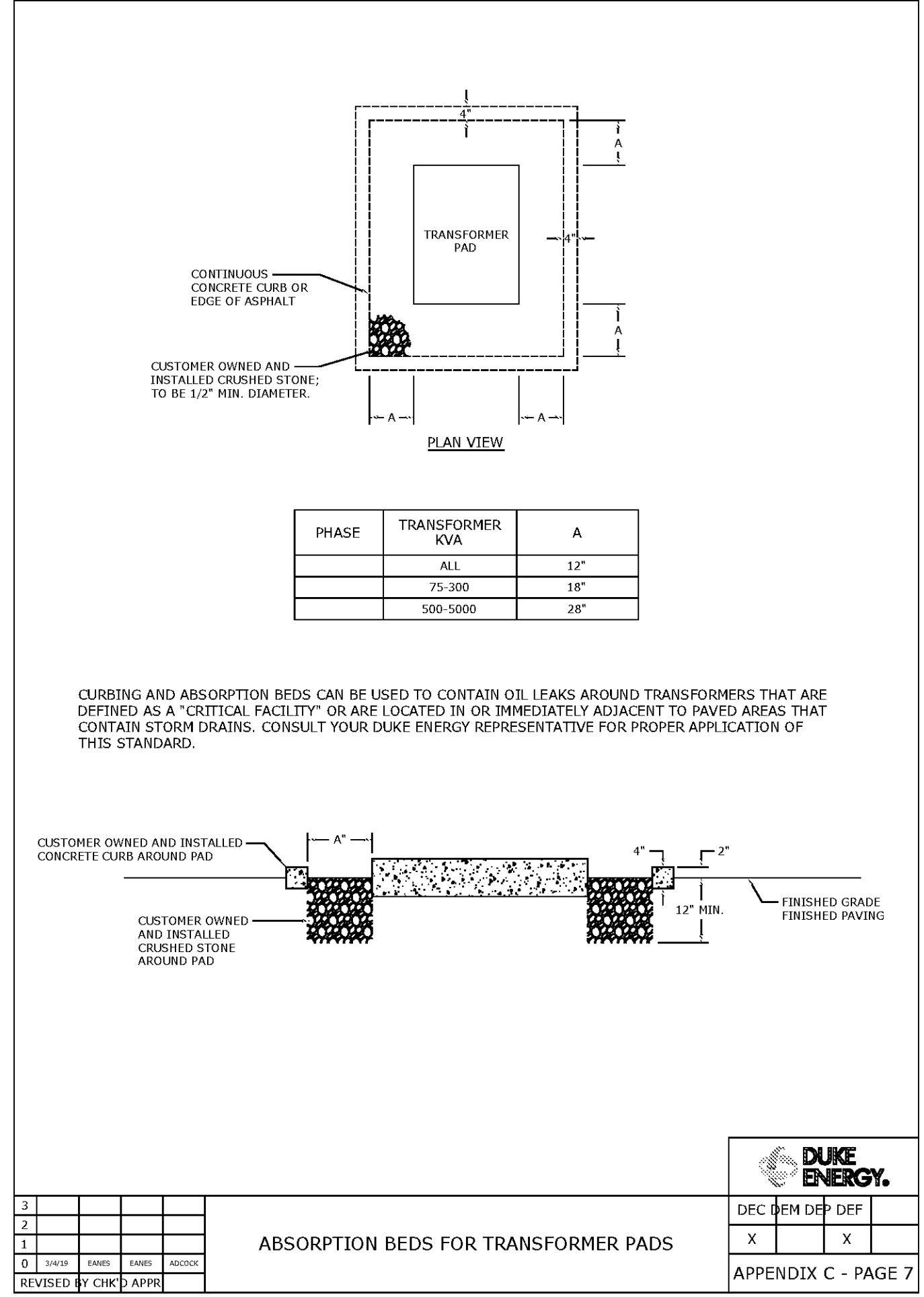
**OLDCASTLE PRECAST**  
CONTACT: ALEX PALOMQUE  
PHONE: 704-788-4050  
E-MAIL: ALEX.PALOMQUE@OLDCASTLE.COM  
WEBSITE: WWW.OLDCASTLEPRECASTSTRUCTURE.COM

**PBC PRECAST**  
CONTACT: JONATHAN AVERY  
PHONE: 910-260-1820  
WEBSITE: WWW.PBCPRECAST.COM

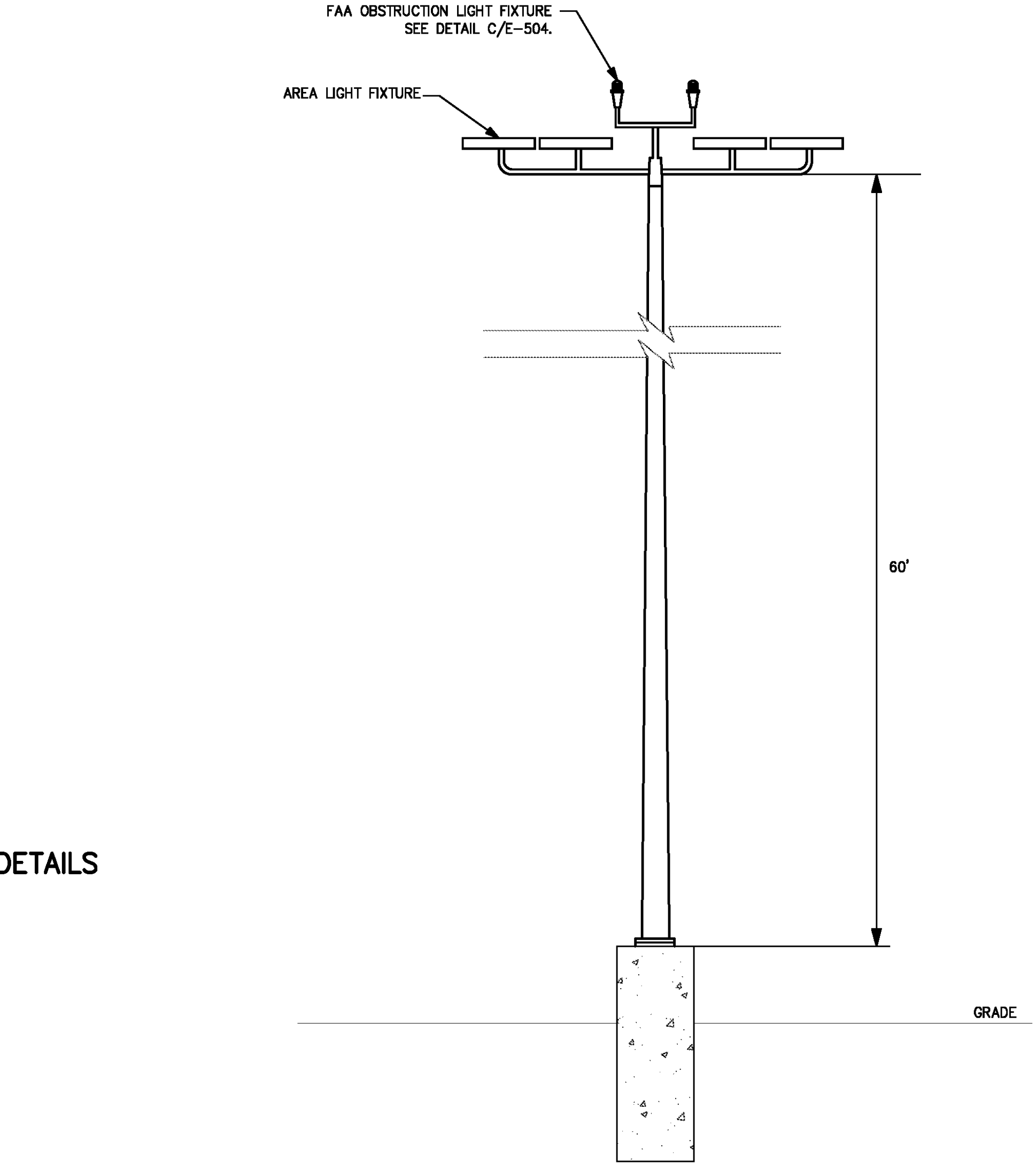
**TRENWA**  
CONTACT: GEORGE SCHURR  
PHONE: 859-781-0831 X22  
WEBSITE: WWW.TRENWA.COM

1	DATE	DATE	DATE	DATE
2	DATE	DATE	DATE	DATE
3	DATE	DATE	DATE	DATE
4	DATE	DATE	DATE	DATE

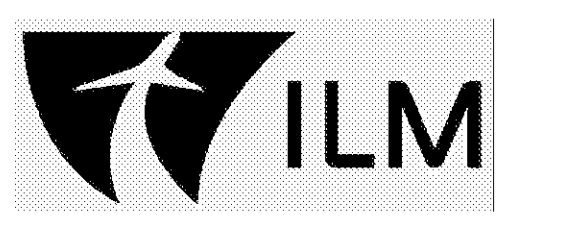
REVISION BY: CHK/APP



**A**  
E-504  
DUKE ENERGY UTILITY TRANSFORMER CONCRETE PAD DETAILS  
SCALE: NO SCALE



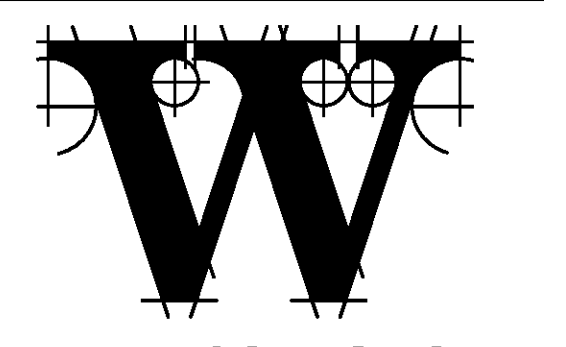
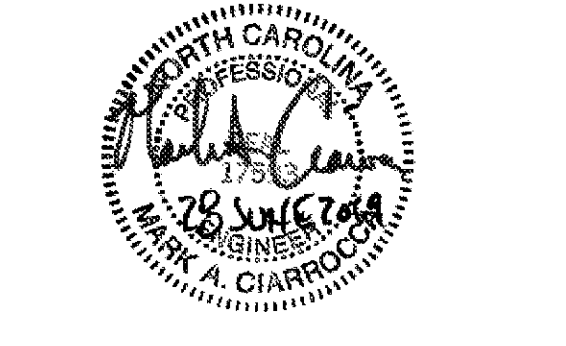
**D**  
E-507  
APRON LIGHTING FIXTURE DETAIL  
NO SCALE



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DATE 06/28/19  
PROJECT NUMBER 9202-000  
SHEET TITLE

**ELECTRICAL DETAILS**

SHEET NUMBER  
**E-504**

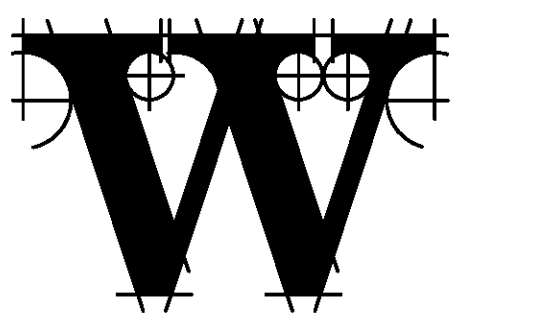


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**ELECTRICAL LUMINAIRE, DIMMER, AND RELAY SCHEDULE**  
SHEET NUMBER

# E-601

## LUMINAIRE SCHEDULE

CALLOUT	SYMBOL	DESCRIPTION	LAMP	BALLAST	VOLTS	MOUNTING	MANUFACTURER / MODEL	NOTES	CALLOUT
A2M		2x2 RECESSED, PRISMATIC LENS	(1) 37W LED	LED DRIVER	277V 1P 2W	RECESSED	COLUMBIA #JIT SERIES DAYWRITE #21 LED SERIES METALUX #20R LED SERIES	3000 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. 0.156" NOMINAL LENS. DAMP LOCATION LISTED. IC-RATED.	A2M
A2ME		2x2 RECESSED, PRISMATIC LENS, BACKED UP BY EMERGENCY GENERATOR	(1) 37W LED	LED DRIVER	277V 1P 2W	RECESSED	COLUMBIA #JIT SERIES DAYWRITE #21 LED SERIES METALUX #20R LED SERIES	3000 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. 0.156" NOMINAL LENS. DAMP LOCATION LISTED. IC-RATED.	A2ME
B		RECESSED LINEAR WITH LENS	(1) 20W LED	LED DIMMABLE DRIVER	277V 1P 2W	RECESSED	PRUDENTIAL LIGHTING #P33 SERIES FLUXORV EQUIVALENT PEERLESS EQUIVALENT	1600 NOMINAL LUMENS PER 4 FT. 3000K COLOR TEMPERATURE. FINISH SELECTION BY ARCHITECT. FLANGE KIT. SEE PLAN FOR OVERALL LENGTH. SEE NOTE 1.	B
G		4' GASKETED LED, VERTICALLY MOUNTED	(1) 40W LED	LED DRIVER	120V 1P 2W	WALL; 8"-0" AFF	PARAMOUNT #CO SERIES PHILIPS EQUIVALENT FAILSAFE #HVSZ2 SERIES	4000 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. STAINLESS STEEL MOUNTING HARDWARE & LENS CLAMPS. VERTICALLY MOUNTED. COORDINATE LOCATION WITH ELEVATOR INSTALLER / VENDOR.	G
GS		4' GASKETED INDUSTRIAL	(1) 47W LED	LED DRIVER	277V 1P 2W	PENDANT, BOTTOM OF CATWALK	COLUMBIA #NEW SERIES DAYWRITE #JWA SERIES METALUX #MVT SERIES	5500 NOMINAL LUMENS. 5000K COLOR TEMPERATURE. FROSTED LENS, STAINLESS STEEL LATCHES.	GS
GT		8' GASKETED INDUSTRIAL	(1) 135W LED	LED DRIVER	277V 1P 2W	PENDANT, 12' AFG UNO	COLUMBIA #JES SERIES DAYWRITE #JWA SERIES METALUX #MVT SERIES	14000 NOMINAL LUMENS. 5000K COLOR TEMPERATURE. FROSTED LENS, STAINLESS STEEL LATCHES.	GT
GTE		8' GASKETED INDUSTRIAL, BACKED UP BY EMERGENCY GENERATOR	(1) 135W LED	LED DRIVER	277V 1P 2W	PENDANT, 12' AFG UNO	COLUMBIA #JES SERIES DAYWRITE #JWA SERIES METALUX #MVT SERIES	14000 NOMINAL LUMENS. 5000K COLOR TEMPERATURE. FROSTED LENS, STAINLESS STEEL LATCHES.	GTE
HB		TRIMLESS 3' RECESSED CAN	(1) 18W LED	LED DIMMABLE DRIVER	277V 1P 2W	CEILING	USAI LIGHTING #Z3RD-C-18CS1-6022KS-50-S-XX-NC1-UNV-D2 EDISON PRICE EQUIVALENT FOCAL POINT EQUIVALENT	SEE NOTE 1.	HB
HBE		TRIMLESS 3' RECESSED CAN, BACKED UP BY EMERGENCY GENERATOR	(1) 18W LED	LED DIMMABLE DRIVER	277V 1P 2W	CEILING	USAI LIGHTING #Z3RD-C-18CS1-6022KS-50-S-XX-NC1-UNV-D2 EDISON PRICE EQUIVALENT FOCAL POINT EQUIVALENT	SEE NOTE 1.	HBE
HE		14' ROUND PENDANT	(1) 456W LED	LED DIMMABLE DRIVER	277V 1P 2W	PENDANT	CAMMAN CUSTOM FIXTURE AXIS LIGHTING PRE-APPROVED EQUIVALENT INTERLUX PRE-APPROVED EQUIVALENT	1150 NOMINAL LUMENS/FT. 3000K COLOR TEMPERATURE. SUSPENDED FLUSH WITH BOTTOM OF COVE OPENING. CONTRACTOR TO LOCATE REMOTE DRIVER IN ADJACENT ACCESSIBLE CEILING SPACE. INDICATE REMOTE DRIVER LOCATION ON AS-BUILT MARKUPS. SEE NOTE 1.	HE
HF		COVE LIGHT	(1) 360W	ELECTRONIC	277V 1P 2W	COVE	VODE #707-Z1-SL-C-0-RP-DMX-0-Z-MOD-FOR-RGBW-A2-0-AL LED LINEAR PRE-APPROVED EQUIVALENT SYLVANIA PRE-APPROVED EQUIVALENT	SEE PLAN FOR OVERALL LENGTH. PROVIDE CORNER CONNECTORS AS REQUIRED. SEE NOTE 1.	HF
HG		CURVABLE COVE LIGHT	(1) 384W LED	LED DRIVER	277V 1P 2W	COVE	VODE #707-Z1-SL-C-0-RP-DMX-0-Z-MOD-FOR-RGBW-A2-0-AL LED LINEAR PRE-APPROVED EQUIVALENT SYLVANIA PRE-APPROVED EQUIVALENT	SEE PLAN FOR OVERALL LENGTH. SEE NOTE 1.	HG
HG2		CURVABLE COVE LIGHT	(1) 782W LED	LED DRIVER	277V 1P 2W	COVE	VODE #707-Z1-SL-C-0-RP-DMX-0-Z-MOD-FOR-RGBW-A2-0-AL LED LINEAR PRE-APPROVED EQUIVALENT SYLVANIA PRE-APPROVED EQUIVALENT	SEE PLAN FOR OVERALL LENGTH. SEE NOTE 1.	HG2
HG3		CURVABLE COVE LIGHT	(1) 1260W LED	LED DRIVER	277V 1P 2W	COVE	VODE #707-Z1-SL-C-0-RP-DMX-0-Z-MOD-FOR-RGBW-A2-0-AL LED LINEAR PRE-APPROVED EQUIVALENT SYLVANIA PRE-APPROVED EQUIVALENT	SEE PLAN FOR OVERALL LENGTH. SEE NOTE 1.	HG3
HH		2x2, ARCHITECTURAL LENS	(1) 20W LED	LED DIMMABLE DRIVER	277V 1P 2W	RECESSED	METALUX #22EN-LD2-25-UNV-L830-CD1-U DAYO LITE PRE-APPROVED EQUIVALENT HUBBELL PRE-APPROVED EQUIVALENT	SEE NOTE 1.	HH
HH2		2x2, ARCHITECTURAL LENS, HIGH OUTPUT	(1) 80W LED	LED DIMMABLE DRIVER	277V 1P 2W	RECESSED	FOCAL POINT #FEZ-22-AC-7000LH-30K-1C-UNV-LD1-ST-XX DAYO LITE PRE-APPROVED EQUIVALENT HUBBELL PRE-APPROVED EQUIVALENT	SEE NOTE 1.	HH2
HH2E		2x2, ARCHITECTURAL LENS, HIGH OUTPUT, BACKED UP BY EMERGENCY GENERATOR	(1) 80W LED	LED DIMMABLE DRIVER	277V 1P 2W	RECESSED	FOCAL POINT #FEZ-22-AC-7000LH-30K-1C-UNV-LD1-ST-XX DAYO LITE PRE-APPROVED EQUIVALENT HUBBELL PRE-APPROVED EQUIVALENT	SEE NOTE 1.	HH2E
HHE		2x2, ARCHITECTURAL LENS, BACKED UP BY EMERGENCY GENERATOR	(1) 20W LED	LED DIMMABLE DRIVER	277V 1P 2W	RECESSED	METALUX #22EN-LD2-25-UNV-L830-CD1-U DAYO LITE PRE-APPROVED EQUIVALENT HUBBELL PRE-APPROVED EQUIVALENT	SEE NOTE 1.	HHE
HJ		LINEAR SURFACE, BACKED UP BY EMERGENCY GENERATOR	(1) 75W LED	LED DIMMABLE DRIVER	277V 1P 2W	BOTTOM OF TRUSS	VODE LIGHTING #I07-BX-01-XX-72-CC-ZZ-XX-XX-2-0-Z-HO-30-1	SEE PLAN FOR OVERALL LENGTH. SEE NOTE 1.	HJ
HK		LINEAR UPLIGHT GRAZE ON CLERESTORY	(1) 109W LED	LED DRIVER	277V 1P 2W	CEILING	JUNO #10414-20X450-5FT-3000K-80CRI-DL0PS-40W PRE-APPROVED EQUIVALENT	REMOTE LED DRIVER. CONTRACTOR TO INDICATE ON AS-BUILTS MARKUPS LOCATION OF LED REMOVE LED DRIVER. SEE PLAN FOR OVERALL LENGTH. SEE NOTE 1.	HK
HL		LINEAR BLUE UPLIGHT ON TRUSSES	(1) 75W LED	LED DIMMABLE DRIVER	277V 1P 2W	TOP SIDE OF BOTTOM CORD OF TRUSS	PROLUMLED #L0F-HO-BU-SX1-C-XX-FM PRE-APPROVED EQUIVALENT	REMOTE LED DRIVER. CONTRACTOR TO INDICATE ON AS-BUILTS MARKUPS LOCATION OF LED REMOVE LED DRIVER. SEE PLAN FOR OVERALL LENGTH. SEE NOTE 1.	HL
HN		COVE LIGHT	(1) 203W	LED DIMMABLE DRIVER	277V 1P 2W	CEILING	VODE #707-Z1-SL-C-0-RP-DMX-0-Z-MOD-FOR-RGBW-A2-0-AL LED LINEAR PRE-APPROVED EQUIVALENT SYLVANIA PRE-APPROVED EQUIVALENT	SEE PLAN FOR OVERALL LENGTH. SEE NOTE 1.	HN
HP		TRACK HEAD	(1) 19W LED	LED DRIVER	120V 1P 2W	TRACK	JUNO #7200L-X-G2-30K-90CRI-PDM-NFL-XX COM-TECH LIGHTING EQUIVALENT WAC LIGHTING EQUIVALENT	FINISH SELECTION BY ARCHITECT. DISTRIBUTION AND OUTPUT TO BE CONFIRMED WHEN ART WORK IS SELECTED. SEE NOTE 1.	HP
HPT		TRACK	(1) 500W LED	DIMMING	120V 1P 2W	CEILING	JUNO #TEK4/ATEK4 COM-TECH LIGHTING EQUIVALENT WAC LIGHTING EQUIVALENT	PROVIDE 3A CURRENT LIMITER. SEE NOTE 1.	HPT
HR		WALL SCONCE	(1) 10W LED	LED DIMMABLE DRIVER	277V 1P 2W	WALL; COORDINATE MTG HEIGHT WITH ARCHITECT	LOUIS POULSEN #AJ EKLIPTA SERIES PRE-APPROVED EQUIVALENT	3000K COLOR TEMPERATURE. SEE NOTE 1.	HR
I2		4' INDUSTRIAL	(1) 30W LED	LED DRIVER	277V 1P 2W	PENDANT/SURFACE	COLUMBIA #JCL SERIES DAYWRITE #JSS SERIES METALUX #SNLED SERIES	3700 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. WIRE GUARD.	I2
I2E		4' INDUSTRIAL, BACKED UP BY EMERGENCY GENERATOR	(1) 30W LED	LED DRIVER	277V 1P 2W	PENDANT/SURFACE	COLUMBIA #JCL SERIES DAYWRITE #JSS SERIES METALUX #SNLED SERIES	3700 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. WIRE GUARD.	I2E
I3		4' INDUSTRIAL	(1) 40W LED	LED DRIVER	277V 1P 2W	PENDANT/SURFACE	COLUMBIA #JCL SERIES DAYWRITE #JSS SERIES METALUX #SNLED SERIES	5300 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. WIRE GUARD.	I3
I3E		4' INDUSTRIAL, BACKED UP BY EMERGENCY GENERATOR	(1) 40W LED	LED DRIVER	277V 1P 2W	PENDANT/SURFACE	COLUMBIA #JCL SERIES DAYWRITE #JSS SERIES METALUX #SNLED SERIES	5300 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. WIRE GUARD.	I3E
JEL		JELLY JAR	(1) 18W LED	LED DRIVER	120V 1P 2W	MTD UNDER BHS EQUIPMENT TRACK	HUBBELL #JW1 SERIES BOOK #WB0215 SERIES CROUSE-HINDS #JVLVLED SERIES	3/4" CONDUIT HUB; SILVER GRAY FINISH; CLEAR GLASS GLOBE; DIE CAST GUARD. COORDINATE EXACT LOCATION WITH BHS EQUIPMENT VENDOR. INTENDED LOCATION IS NEAR BHS MAINTENANCE HATCH.	JEL
K1		1x1, ARCHITECTURAL LENS	(1) 22W LED	LED DIMMABLE DRIVER	277V 1P 2W	RECESSED	PINNACLE LIGHTING #CJ11-A SERIES PRE-APPROVED EQUIVALENT AXIS LIGHTING #JALDLED SERIES	1600 NOMINAL LUMENS. 3000K COLOR TEMPERATURE.	K1
K1E		1x1, ARCHITECTURAL LENS, BACKED UP BY EMERGENCY GENERATOR	(1) 22W LED	LED DIMMABLE DRIVER	277V 1P 2W	RECESSED	PINNACLE LIGHTING #CJ11-A SERIES PRE-APPROVED EQUIVALENT AXIS LIGHTING #JALDLED SERIES	1600 NOMINAL LUMENS. 3000K COLOR TEMPERATURE.	K1E
R6		6' RECESSED CAN	(1) 18W LED	LED DIMMABLE DRIVER	277V 1P 2W	RECESSED	PRESCOLTE #FJLSD SERIES LIGHTOLIER #LR SERIES PORTFOLIO #LDA SERIES	1500 NOMINAL LUMENS. 3000K COLOR TEMPERATURE. SELF-FLANGED LENSED REFLECTOR TRIM; LOW RODESCENT CLEAR FINISH.	R6
S		APRON LIGHT	(1) 558W LED	LED DRIVER	277V 1P 2W	POLE; 60"; 5' CONCRETE BASE	McGRAW-EDISON #GLEON-AF-10-LED-E1-14FT BEACON #MA7A-98L-50S-4K-4 PRE-APPROVED EQUIVALENT	65,000 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. TYPE IV FORWARD THROW OPTICS. FINISH SELECTION BY ARCHITECT. SPLITTER MOUNT ON BULLHORN BRACKET. BRD GUARD MESH TOP. TOOL-LESS HARDWARE. APRON LIGHTING LOCATED AT TOP OF BULLHORN BRACKET. COORDINATE CONCRETE BASE WITH STRUCTURAL ENGINEER.	S
W		HALF CYLINDER WALL PACK	(1) 40W LED	LED DRIVER	277V 1P 2W	WALL	DECO LIGHTING #D440 SERIES GARDCO #104L SERIES RAYON #T850L SERIES	3800 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. TYPE IV DISTRIBUTION. DOWNLIGHT ONLY. FINISH SELECTION BY ARCHITECT.	W
WE		HALF CYLINDER WALL PACK, BACKED UP BY EMERGENCY GENERATOR	(1) 20W LED (1) 20W LED	LED DRIVER LED DRIVER	277V 1P 2W	WALL; MTD 9'-0" AFG	DECO LIGHTING #D440 SERIES GARDCO #104L SERIES RAYON #T850L SERIES	3800 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. TYPE IV DISTRIBUTION. DUAL LED DRIVERS AND DUAL LED ARRAYS FOR EGRESS REQUIREMENTS. DOWNLIGHT ONLY. FINISH SELECTION BY ARCHITECT.	WE
X		EXIT SIGN	(2) 1W LED	ELECTRONIC	277V 1P 2W	UNIVERSAL	DUAL-LITE #EVE SERIES LIGHTALARM #GRAN SERIES PATHWAY #PR SERIES	CONNECT TO NEAREST UNSWITCHED GENERATOR LIGHT CIRCUIT IN SAME SPACE. THESE FIXTURES ARE NOT TAGGED WITH "X" ON THE DRAWINGS; ONLY THE SYMBOL IS USED.	X

NOTES:  
1. LIGHT FIXTURE SELECTION WAS DESIGNED BY HARTRANFT LIGHTING DESIGN. INCLUSION HERE IS NOT INTENDED TO REPRESENT THAT THE FIXTURE SELECTION IS THE WORK PRODUCT OF CHEATHAM & ASSOCIATES, PA.

NOTES:  
1. LIGHTING FIXTURE SELECTION, LAYOUT, AND DIMMER SCHEDULE WERE DESIGNED BY HARTRANFT LIGHTING DESIGN. INCLUSION HERE IS NOT INTENDED TO REPRESENT THAT THE FIXTURE SELECTION, LAYOUT, AND DIMMER SCHEDULE IS THE WORK PRODUCT OF CHEATHAM & ASSOCIATES, PA.

HARTRANFT LIGHTING DESIGN		DIMMER SCHEDULE		Revisions:				
PROJECT: WILMINGTON TERMINAL EXPANSION CONTRACT 3 (NOTE: CONTAINED FROM THE CONTROL SYSTEM FOR CONTRACT 2, SYSTEM TO BE EXPANDED)		PROJECT #		6/19/2019				
ZONE		REVISION:						
ZONE, NO	FIXTURE	DESCRIPTION	WATTS	UNITS	QTY	CONTROL & LOAD TYPE	CONTROL TYPE	TOTAL
<b>FRONT OF HOUSE (BAGGAGE CLAIM)</b>								
9A, 9B	HB	TUNABLE WHITE DOWNLIGHT	18	EACH	8	0-10V, 2 Channel per zone	TIMECLOCK	144.0
10A, 10B	HB	TUNABLE WHITE DOWNLIGHT	18	EACH	52	0-10V, 2 Channel per zone	TIMECLOCK	936.0
11	HC	ACCENT DOWNLIGHTS ON SLOPED CEILING	20	EACH	8	0-10V	TIMECLOCK	160.0
12A, 12B	HA	LO SLOT FIXTURE	6	LFT	742	0-10V	TIMECLOCK	4452.0
13	HN	CURVABLE FOR EXISTING COVE	6.6	LFT	92	0-10V	TIMECLOCK	607.2
14	HE	CUSTOM RING FIXTURES	456	EACH	3	0-10V	TIMECLOCK	1368.0
<b>SECURITY CHECKPOINT</b>								
15	HH2	LED HO 2X2	79	EACH	12	0-10V	TIMECLOCK	948.0
16	HH	LED LO 2X2	20	EACH	18	0-10V	TIMECLOCK	360.0
17	HH2	LED HO 2X2	79	EACH	15	0-10V	TIMECLOCK	1185.0
18	HA	LO SLOT FIXTURE	6	LFT	162	0-10V	TIMECLOCK	972.0
<b>CONCOURSE EXIT</b>								
19A, 19B	HA	LO SLOT FIXTURE	6	LFT	314	0-10V	TIMECLOCK	1884.0
<b>GATE AREA</b>								
20A, 20B, 20C, 20D	HA	LO SLOT FIXTURE	6	LFT	1110	0-10V	TIMECLOCK	6660.0
21	HR	SCONCE IN CONCOURSE AREA	10	EACH	40	0-10V	TIMECLOCK	400.0
22	HI	4" SQUARE DOWNLIGHT	24	EACH	18	0-10V	TIMECLOCK	432.0
<b>CLERESTORY</b>								
23A, 23B	HK	LINEAR UPLIGHT GRAZE ON CLERESTORY	4.8	LFT	420	0-10V	TIMECLOCK	2016.0
24A, 24B	HJ	SURFACE MOUNTED LINEAR	12.5	LFT	156	0-10V	TIMECLOCK	1950.0
25	HP	TRACK LIGHTING FOR ARTWORK	19	EACH	20	0-10V	TIMECLOCK	380.0
26A, 26B, 26C	HL	BLUE LINEAR UPLIGHT ON TRUSSES	10	LFT	496	0-10V	TIMECLOCK	4960.0
<b>CUPOLA</b>								
27	HL	BLUE LINEAR UPLIGHT ON TRUSSES	10	LFT	88	0-10V	TIMECLOCK	880.0
28	HJ	SURFACE MOUNTED LINEAR	12.5	LFT	104	0-10V	TIMECLOCK	1300.0
29	HQ1	16 FT SQUARE PENDANT	1	EACH	500		TIMECLOCK	500.0
30	HQ2	14 FT SQUARE PENDANT	1	EACH	500		TIMECLOCK	500.0
31	HQ3	12 FT SQUARE PENDANT	1	EACH	500		TIMECLOCK	500.0
<b>DMX</b>								
CHANNELS 29-38	HF	RGBW EXTRUSION IN RECTANGULAR COVE	8	LFT	214.0	DMX	PLAYER LINKED WITH TIME CLOCK	1712.0
CHANNELS 37-40	HG	RGW CURVED COVE	8	LFT	95.0	DMX	PLAYER LINKED WITH TIME CLOCK	760.0
CHANNELS 41-44	HG	RGW CURVED COVE	8	LFT	95.5	DMX	PLAYER LINKED WITH TIME CLOCK	764.0
CHANNELS 45-48	HG	RGW CURVED COVE	8	LFT	157.8	DMX	PLAYER LINKED WITH TIME CLOCK	1262.0
LIGHTING CONTROL PANEL/KEYPAD - CRESTON, ETC. OR EQUAL AND COLOR KINETICS iPLAYERS3. DIMMING CONTROLS SHALL LINK TO BUILDING MANAGEMENT SYSTEM AND SHALL BE LON WORKS COMPATIBLE IF NECESSARY.								
FINAL DIMMER LOADS MUST BE CONFIRMED BY ELECTRICAL ENGINEER.								

CIRCUIT		PANEL	LC	SWITCHED ZONE	AREA / DESCRIPTION	SWITCHED OUTPUTS	NOTES
L-1	1	RAMP LEVEL		YES	PHOTOCELL CONTROL		
L-5	2	STAR 7 A1107	CORRIDOR A1109, VEST A1115, STOR A1132	YES	SCHEDULED ON/OFF		
L-8	3	STAR 7 A1207		YES	SCHEDULED ON/OFF		
L-9	4	APRON LIGHTING		YES	PHOTOCELL CONTROL		
L-11	5	APRON LIGHTING		YES	PHOTOCELL CONTROL		
L-12	6	STAR A1208		YES	SCHEDULED ON/OFF		
L-13	7	APRON LIGHTING		YES	PHOTOCELL CONTROL		
L-15	8	RAMP LEVEL		YES	PHOTOCELL CONTROL		
L-19	9	FUTURE 1201		YES	SCHEDULED ON/OFF		
L-21	10	FUTURE A210		YES	SCHEDULED ON/OFF		
L-23	11	STORAGE A2131		YES	SCHEDULED ON/OFF		
L-31	12	ARLINE A1120		YES	SCHEDULED ON/OFF		
G2-1	13	RAMP LEVEL		YES	PHOTOCELL CONTROL		
G2-5	14	RAMP LEVEL		YES	PHOTOCELL CONTROL		

**AIR HANDLING UNIT EQUIPMENT SCHEDULE**

CALLOUT	VOLTS	CIRCUIT	BREAKER	WIRE CALLOUT
AHU#3	480V 3P 3W	M2-1,3,5	50/3	1" C, 3#6, #10G
AHU#4	480V 3P 3W	M4-2,4,6	15/3	3/4" C, 3#12, #12G
AHU#7	480V 3P 3W	M2-7,9,11	50/3	1" C, 3#6, #10G
AHU#8	480V 3P 3W	M2-13,15,17	50/3	1" C, 3#6, #10G
AHU#9 (RELIEF)	480V 3P 3W	M2-25,27,29	15/3	3/4" C, 3#12, #12G
AHU#9 (SUPPLY)	480V 3P 3W	M2-19,21,23	15/3	3/4" C, 3#12, #12G
AHU#10 (RELIEF)	480V 3P 3W	M2-37,39,41	15/3	3/4" C, 3#12, #12G
AHU#10 (SUPPLY)	480V 3P 3W	M2-31,33,35	25/3	3/4" C, 3#10, #10G
AHU#11 (RELIEF)	480V 3P 3W	M2-49,51,53	15/3	3/4" C, 3#12, #12G
AHU#11 (SUPPLY)	480V 3P 3W	M2-43,45,47	20/3	3/4" C, 3#12, #12G

**BLOWER COIL AIR HANDLING UNIT EQUIPMENT SCHEDULE**

CALLOUT	VOLTS	CIRCUIT	BREAKER	WIRE CALLOUT
BCAHU#1	480V 3P 3W	4B8-8,10,12	15/3	3/4" C, 3#12, #12G
BCAHU#2	480V 3P 3W	4B8-14,16,18	15/3	3/4" C, 3#12, #12G
BCAHU#3	480V 3P 3W	4B8-20,22,24	15/3	3/4" C, 3#12, #12G
BCAHU#4	480V 3P 3W	M3-1,3,5	15/3	3/4" C, 3#12, #12G
BCAHU#5	480V 3P 3W	M3-7,9,11	15/3	3/4" C, 3#12, #12G
BCAHU#6	480V 3P 3W	M3-13,15,17	15/3	3/4" C, 3#12, #12G
BCAHU#7	480V 3P 3W	M3-19,21,23	15/3	3/4" C, 3#12, #12G
BCAHU#8	480V 3P 3W	M3-25,27,29	15/3	3/4" C, 3#12, #12G
BCAHU#9	480V 3P 3W	M3-31,33,35	15/3	3/4" C, 3#12, #12G
BCAHU#10	480V 3P 3W	M3-37,39,41	15/3	3/4" C, 3#12, #12G
BCAHU#11	480V 3P 3W	M3-2,4,6	15/3	3/4" C, 3#12, #12G
BCAHU#12	480V 3P 3W	M3-8,10,12	15/3	3/4" C, 3#12, #12G
BCAHU#13	480V 3P 3W	M3-14,16,18	15/3	3/4" C, 3#12, #12G
BCAHU#14	480V 3P 3W	M3-20,22,24	15/3	3/4" C, 3#12, #12G
BCAHU#15	480V 3P 3W	M3-26,28,30	15/3	3/4" C, 3#12, #12G
BCAHU#16	480V 3P 3W	M3-32,34,36	15/3	3/4" C, 3#12, #12G
BCAHU#17	480V 3P 3W	M4-1,3,5	15/3	3/4" C, 3#12, #12G
BCAHU#18	480V 3P 3W	M4-7,9,11	15/3	3/4" C, 3#12, #12G
BCAHU#19	480V 3P 3W	M4-13,15,17	15/3	3/4" C, 3#12, #12G
BCAHU#20	480V 3P 3W	M4-19,21,23	15/3	3/4" C, 3#12, #12G
BCAHU#21	480V 3P 3W	M4-25,27,29	15/3	3/4" C, 3#12, #12G
BCAHU#22	480V 3P 3W	M4-31,33,35	15/3	3/4" C, 3#12, #12G

**BOILER EQUIPMENT SCHEDULE**

CALLOUT	VOLTS	CIRCUIT	BREAKER	WIRE CALLOUT
BOILER #3	208V 3P 3W	DP1-1,3,5	15/3	3/4" C, 3#12, #12G
BOILER #4	208V 3P 3W	DP1-7,9,11	15/3	3/4" C, 3#12, #12G
BOILER #5	208V 3P 3W	DP1-13,15,17	15/3	3/4" C, 3#12, #12G

**CHILLER EQUIPMENT SCHEDULE**

CALLOUT	VOLTS	CIRCUIT	BREAKER	WIRE CALLOUT
CHILLER-3	480V 3P 3W	DSBC-5	350/3	3" C, 3#350kcmil, #3G
CHILLER-4	480V 3P 3W	DSBC-6	350/3	3" C, 3#350kcmil, #3G

**FAN COIL UNIT EQUIPMENT SCHEDULE**

CALLOUT	VOLTS	CIRCUIT	BREAKER	WIRE CALLOUT
FAN COIL FCU-18	120V 1P 2W	P4-2	20/1	3/4" C, 1#12, #12N, #12G

**COOLING TOWER EQUIPMENT SCHEDULE**

CALLOUT	VOLTS	CIRCUIT	BREAKER	WIRE CALLOUT
COOLING TOWER #CT-1	480V 3P 3W	4B-13,15,17	70/3	1-1/4" C, 3#4, #8G
COOLING TOWER #CT-1 SUMP HEATER	480V 3P 3W	4B-19,21,23	40/3	3/4" C, 3#6, #10G
COOLING TOWER #CT-2	480V 3P 3W	4B-25,27,29	70/3	1-1/4" C, 3#4, #8G
COOLING TOWER #CT-2 SUMP HEATER	480V 3P 3W	4B-31,33,35	40/3	3/4" C, 3#6, #10G

**DUCTLESS SPLIT SYSTEM HEAT PUMP EQUIPMENT SCHEDULE**

CALLOUT	VOLTS	CIRCUIT	BREAKER	WIRE CALLOUT
DAHU #1	208V 2P 2W	P4-44,46	15/2	3/4" C, 2#12, #12G
DAHU #2	208V 2P 2W	P4-48,50	25/2	3/4" C, 2#10, #10G
DAHU #3	208V 2P 2W	P4-52,54	25/2	3/4" C, 2#10, #10G
DAHU #4	208V 2P 2W	TSA-28,30	25/2	3/4" C, 2#8, #10G
DHP #1	208V 2P 2W	P4-44,46	15/2	3/4" C, 2#12, #12G
DHP #2	208V 2P 2W	P4-48,50	25/2	3/4" C, 2#10, #10G
DHP #3	208V 2P 2W	P4-52,54	25/2	3/4" C, 2#10, #10G
DHP #4	208V 2P 2W	TSA-28,30	25/2	3/4" C, 2#8, #10G

**ELECTRIC UNIT HEAT EQUIPMENT SCHEDULE**

CALLOUT	VOLTS	CIRCUIT	BREAKER	WIRE CALLOUT
ELECTRIC UNIT HEATER - UH-27	480V 3P 3W	M2-2,4,6	15/3	3/4" C, 3#12, #12G
ELECTRIC UNIT HEATER - UH-28	480V 3P 3W	M2-8,10,12	15/3	3/4" C, 3#12, #12G
ELECTRIC UNIT HEATER - UH-29	480V 3P 3W	M2-14,16,18	15/3	3/4" C, 3#12, #12G
ELECTRIC UNIT HEATER - UH-30	480V 3P 3W	M2-20,22,24	20/3	3/4" C, 3#12, #12G
ELECTRIC UNIT HEATER - UH-31	480V 3P 3W	M2-26,28,30	15/3	3/4" C, 3#12, #12G
ELECTRIC UNIT HEATER - UH-32	480V 3P 3W	M1-38,40,42	15/3	3/4" C, 3#12, #12G
ELECTRIC UNIT HEATER - UH-33	480V 3P 3W	M2-32,34,36	15/3	3/4" C, 3#12, #12G
ELECTRIC UNIT HEATER - UH-34	480V 3P 3W	M2-38,40,42	15/3	3/4" C, 3#12, #12G
ELECTRIC UNIT HEATER - UH-35	480V 3P 3W	M2-44,46,48	15/3	3/4" C, 3#12, #12G
ELECTRIC UNIT HEATER - UH-36	480V 3P 3W	M4-8,10,12	15/3	3/4" C, 3#12, #12G
ELECTRIC UNIT HEATER - UH-37	480V 3P 3W	M2-50,52,54	15/3	3/4" C, 3#12, #12G

**ELECTRIC WALL HEATER EQUIPMENT SCHEDULE**

CALLOUT	VOLTS	CIRCUIT	BREAKER	WIRE CALLOUT
ELECTRIC WALL HEATER - EWH#1	208V 2P 2W	DP1-44,46	20/2	3/4" C, 2#12, #12G
ELECTRIC WALL HEATER - EWH#2	208V 2P 2W	DP1-40,42	20/2	3/4" C, 2#12, #12G

**PLUMBING EQUIPMENT SCHEDULE**

CALLOUT	VOLTS	CIRCUIT	BREAKER	WIRE CALLOUT
CIRC. PUMP	120V 1P 2W	P3-8	15/1	3/4" C, 1#12, #12N, #12G
CIRC. PUMP	120V 1P 2W	P1-21	20/1	3/4" C, 1#12, #12N, #12G
H2O HTR	480V 3P 3W	M4-20,22,24	20/3	3/4" C, 3#12, #12G
H2O HTR	480V 3P 3W	M4-14,16,18	20/3	3/4" C, 3#12, #12G
H2O HTR	480V 3P 3W	B9-38,40,42	20/3	3/4" C, 3#12, #12G
POTABLE WATER #1	120V 1P 2W	P4-4	20/1	3/4" C, 1#12, #12N, #12G
POTABLE WATER #2	120V 1P 2W	P4-6	20/1	3/4" C, 1#12, #12N, #12G

**POWER VENTILATOR EQUIPMENT SCHEDULE**

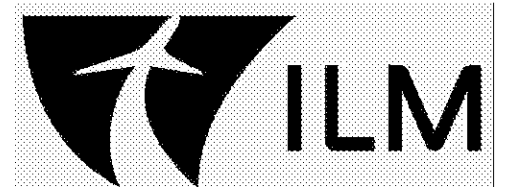
CALLOUT	VOLTS	CIRCUIT	BREAKER	WIRE CALLOUT
FAN F-5	120V 1P 2W	B10-29	20/1	3/4" C, 1#12, #12N, #12G
FAN F-29	480V 3P 3W	M1-20,22,24	15/3	3/4" C, 3#12, #12G
FAN F-30	480V 3P 3W	M1-26,28,30	15/3	3/4" C, 3#12, #12G
FAN F-31	480V 3P 3W	M1-32,34,36	15/3	3/4" C, 3#12, #12G
FAN F-34	120V 1P 2W	P3-51	15/1	3/4" C, 1#12, #12N, #12G
FAN F-35	480V 3P 3W	4B-38,40,42	15/3	3/4" C, 3#12, #12G
FAN F-36	480V 3P 3W	4B-38,40,42	15/3	3/4" C, 3#12, #12G
FAN SF-1	480V 3P 3W	MC-26,28,30	15/3	3/4" C, 3#12, #12G
FAN SF-3	480V 3P 3W	4B-37,39,41	15/3	3/4" C, 3#12, #12G

**PUMP EQUIPMENT SCHEDULE**

CALLOUT	VOLTS	CIRCUIT	BREAKER	WIRE CALLOUT
PUMP P-14 CHILLER PRIMARY	480V 3P 3W	M1-1,3,5	30/3	3/4" C, 3#10, #10G
PUMP P-15 CHILLER PRIMARY	480V 3P 3W	M1-7,9,11	30/3	3/4" C, 3#10, #10G
PUMP P-16 CHILLED WATER SECONDARY	480V 3P 3W	M1-13,15,17	50/3	1" C, 3#6, #10G
PUMP P-17 CHILLED WATER SECONDARY	480V 3P 3W	M1-19,21,23	50/3	1" C, 3#6, #10G
PUMP P-18 CONDENSER WATER	480V 3P 3W	M1-25,27,29	70/3	1-1/4" C, 3#4, #8G
PUMP P-19 CONDENSER WATER	480V 3P 3W	M1-31,33,35	70/3	1-1/4" C, 3#4, #8G
PUMP P-20 HOT WATER SYSTEM	480V 3P 3W	M1-37,39,41	30/3	3/4" C, 3#10, #10G
PUMP P-21 HOT WATER SYSTEM	480V 3P 3W	M1-43,45,47	30/3	3/4" C, 3#10, #10G
PUMP P-22 HOT WATER BOILER 3	480V 3P 3W	M1-2,4,6	15/3	3/4" C, 3#12, #12G
PUMP P-23 HOT WATER BOILER 4	480V 3P 3W	M1-8,10,12	15/3	3/4" C, 3#12, #12G
PUMP P-24 HOT WATER BOILER 5	480V 3P 3W	M1-14,16,18	15/3	3/4" C, 3#12, #12G

**MISCELLANEOUS EQUIPMENT SCHEDULE**

CALLOUT	VOLTS	CIRCUIT	BREAKER	WIRE CALLOUT
AIR COMPRESSOR	480V 3P 3W	MC-20,22,24	20/3	3/4" C, 3#12, #12G
COILING DOOR #1	120V 1P 2W	TSA2-29	20/1	3/4" C, 1#12, #12N, #12G
COILING DOOR #2	120V 1P 2W	TSA2-39	20/1	3/4" C, 1#12, #12N, #12G
COILING DOOR #3	120V 1P 2W	P4-1	20/1	3/4" C, 1#12, #12N, #12G
COILING DOOR #4	120V 1P 2W	P4-3	20/1	3/4" C, 1#12, #12N, #12G
COILING DOOR #5	120V 1P 2W	P4-5	20/1	3/4" C, 1#12, #12N, #12G
ELEV. CAB LTS	120V 1P 2W	P3-15	20/1	3/4" C, 1#12, #12N, #12G
ELEVATOR	480V 3P 3W	DSBC-7	125/3	1-1/2" C, 3#1, #6G
FOLDING DOOR #1	208/120V 2P 3W	TSA2-41,43	20/2	3/4" C, 2#12, #12N, #12G
FOLDING DOOR #2	208/120V 2P 3W	TSA2-45,47	20/2	3/4" C, 2#12, #12N, #12G
HEAT TRACE CONTROLLER #1	120V 1P 2W	B4B-14	15/1	3/4" C, 1#12, #12N, #12G
HEAT TRACE CONTROLLER #2	120V 1P 2W	B4B-14	15/1	3/4" C, 1#12, #12N, #12G
HEAT TRACE CONTROLLER #3	120V 1P 2W	P4-32	15/1	3/4" C, 1#12, #12N, #12G
HEAT TRACE CONTROLLER #4	120V 1P 2W	P4-35	15/1	3/4" C, 1#12, #12N, #12G
HEAT TRACE CONTROLLER #5	120V 1P 2W	PAD-28	15/1	3/4" C, 1#12, #12N, #12G
HEAT TRACE CONTROLLER #6	120V 1P 2W	PAD-30	15/1	3/4" C, 1#12, #12N, #12G
JET BRIDGE GPU	480V 3P 3W	DSBC-12	150/3	1-1/2" C, 3#1, #6G
JET BRIDGE GPU	480V 3P 3W	DSBC-15	150/3	1-1/2" C, 3#1, #6G
JET BRIDGE GPU	480V 3P 3W	DSBC-19	150/3	1-1/2" C, 3#1, #6G
JET BRIDGE GPU	480V 3P 3W	DSBC-9	150/3	1-1/2" C, 3#1, #6G
JET BRIDGE PBB	480V 3P 3W	DSBC-11	60/3	1" C, 3#6, #10G
JET BRIDGE PBB	480V 3P 3W	DSBC-14	60/3	1" C, 3#6, #10G
JET BRIDGE PBB	480V 3P 3W	DSBC-18	60/3	1" C, 3#6, #10G
JET BRIDGE PBB	480V 3P 3W	DSBC-8	60/3	1" C, 3#6, #10G
JET BRIDGE PCA	480V 3P 3W	DSBC-13	250/3	2-1/2" C, 3#250kcmil, #4G
JET BRIDGE PCA	480V 3P 3W	DSBC-20	250/3	2-1/2" C, 3#250kcmil, #4G
JET BRIDGE PCA	480V 3P 3W	DSBC-10	250/3	2-1/2" C, 3#250kcmil, #4G
JET BRIDGE PCA	480V 3P 3W	DSBC-16	250/3	2-1/2" C, 3#250kcmil, #4G
MCP-1B1	480V 3P 3W	4B-1,3,5	125/3	1-1/2" C, 3#1, #6G
MCP-1B2	480V 3P 3W	4B-7,9,11	125/3	1-1/2" C, 3#1, #6G
POWER DOOR #1	120V 1P 2W	2B-7	20/1	3/4" C, 1#12, #12N, #12G
POWER DOOR #2	120V 1P 2W	2B-9	20/1	3/4" C, 1#12, #12N, #12G
POWER DOOR #3	120V 1P 2W	2B-11	20/1	3/4" C, 1#12, #12N, #12G
POWER DOOR #4	120V 1P 2W	2B-13	20/1	3/4" C, 1#12, #12N, #12G



**TERMINAL IMPROVEMENTS CONTRACT 3**

Wilmington International Airport  
1740 Airport Boulevard, Suite 12  
Wilmington, NC 28405

**CHEATHAM & ASSOCIATES, P.A.**  
CONSULTING ENGINEERS  
3412 ENTERPRISE DRIVE  
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PHONE: (910) 452-4210  
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OFFICE@CHEATHAMPA.COM  
NC LICENSE# C-1073

JOB # 19005



**THE WILSON GROUP**

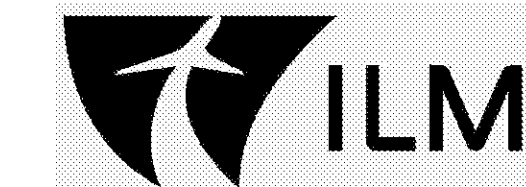
- ARCHITECTS -  
PO Box 5510 Charlotte, NC 28289  
704-331-9747 • www.twgarchitects.com

MSB										
ROOM: ELECTRICAL ROOM A5			VOLTS: 480Y/277V 3P 4W			AIC: 65,000			MOUNTING: FLOOR	
MOUNTING: FLOOR			BUS AMPS: 2500			MAIN BKR: 2500			LUGS: STANDARD	
FED FROM: UTILITY-NEW			NEUTRAL: 100%			LUGS: STANDARD			NOTE: ULSE LISTED AND RATED	
CKT #	BREAKER TRIP/POLES	CIRCUIT DESCRIPTION	LOAD KVA			FEEDER RACEWAY AND CONDUCTORS				
			A	B	C	A	B	C		
1	1000/3	TRANSFER SWITCH ATSA	317	316	315	(3)3-1/2"C,3#400kcmil,#400kcmil N,#2/0G				
2	2000/3	TRANSFER SWITCH ATSB	699	703	702	(6)3-1/2"C,3#400kcmil,#400kcmil N,#250kcmil G				
3	400/3	TRANSFER SWITCH ATSG	9.59	7.83	6.53	3-1/2"C,3#500kcmil,#500kcmil N,#3G				
4	-/3	SPACE ONLY	0	0	0					
5	-/3	SPACE ONLY	0	0	0					
6	-/3	SPACE ONLY	0	0	0					
7	-/3	SPACE ONLY	0	0	0					
8	-/3	SPACE ONLY	0	0	0					
9	-/3	SPACE ONLY	0	0	0					
10	-/3	SPACE ONLY	0	0	0					
11	-/3	SPACE ONLY	0	0	0					
12	-/3	SPACE ONLY	0	0	0					
13	-/3	SPACE ONLY	0	0	0					
14	-/3	SPACE ONLY	0	0	0					
15	-/3	SPACE ONLY	0	0	0					
16	-/3	SPACE ONLY	0	0	0					
17	-/3	SPACE ONLY	0	0	0					
18	-/3	SPACE ONLY	0	0	0					
19	-/3	SPACE ONLY	0	0	0					
20	-/3	SPACE ONLY	0	0	0					
21	-/3	SPACE ONLY	0	0	0					
22	-/3	SPACE ONLY	0	0	0					
23	-/3	SPACE ONLY	0	0	0					
24	-/3	SPACE ONLY	0	0	0					
TOTAL CONNECTED KVA BY PHASE			1,030	1,030	1,020					
CONN KVA			CALC KVA			CONN KVA			CALC KVA	
LIGHTING	143	179	(125%)	CONTINUOUS	33.4	41.8	(125%)			
LARGEST MOTOR	54	67.6	(125%)	HEATING	43.1	0	(0%)			
OTHER MOTORS	531	531	(100%)	COOLING	484	484	(100%)			
RECEPTACLES	177	93.6	(50%>10)	NONCONTINUOUS	267	267	(100%)			
KITCHEN EQUIP	136	134	(LARGEST 2)	DIVERSE	1,230	18.7	(2%)			
				METERED DEMAND	0	0	(125%)			
TOTAL KVA			3,080			1,820			BALANCED 3-PHASE AMPS	
									2,190	

DSBC										
ROOM: ELECTRICAL ROOM A1110			VOLTS: 480Y/277V 3P 4W			AIC: 22,000			MOUNTING: FLOOR	
MOUNTING: FLOOR			BUS AMPS: 1600			MAIN BKR: 1600			LUGS: STANDARD	
FED FROM: DSBB			NEUTRAL: 100%			LUGS: STANDARD			NOTE:	
CKT #	BREAKER TRIP/POLES	CIRCUIT DESCRIPTION	LOAD KVA			FEEDER RACEWAY AND CONDUCTORS				
			A	B	C	A	B	C		
1	400/3	PANEL M1	55.7	55.7	55.7	3"C,3#500kcmil,#3G				
2	100/3	PANEL L	15.3	16.5	10.1	1-1/2"C,3#2,#2N,#8G				
3	175/3	XFMR TDP1	13.9	14.5	13.8	2"C,3#2/0,#6G				
4	175/3	XFMR TDP2	28.7	29.6	30.6	2"C,3#2/0,#6G				
5	350/3	CHILLER-3	46.3	46.3	46.3	3"C,3#350kcmil,#3G				
6	350/3	CHILLER-4	46.3	46.3	46.3	3"C,3#350kcmil,#3G				
7	125/3	ELEVATOR	18	18	18	1-1/2"C,3#1,#6G				
8	60/3	JET BRIDGE PBB	11	11	11	1"C,3#6,#10G				
9	150/3	JET BRIDGE GPU	27.7	27.7	27.7	1-1/2"C,3#1/0,#6G				
10	250/3	JET BRIDGE PCA	41.7	41.7	41.7	2-1/2"C,3#250kcmil,#4G				
11	60/3	JET BRIDGE PBB	11	11	11	1"C,3#6,#10G				
12	150/3	JET BRIDGE GPU	27.7	27.7	27.7	1-1/2"C,3#1/0,#6G				
13	250/3	JET BRIDGE PCA	41.7	41.7	41.7	2-1/2"C,3#250kcmil,#4G				
14	60/3	JET BRIDGE PBB	11	11	11	1"C,3#6,#10G				
15	150/3	JET BRIDGE GPU	27.7	27.7	27.7	1-1/2"C,3#1/0,#6G				
16	250/3	JET BRIDGE PCA	41.7	41.7	41.7	2-1/2"C,3#250kcmil,#4G				
17	250/3	PANEL M2	47	47	47	2-1/2"C,3#250kcmil,#4G				
18	60/3	JET BRIDGE PBB	11	11	11	1"C,3#6,#10G				
19	150/3	JET BRIDGE GPU	27.7	27.7	27.7	1-1/2"C,3#1/0,#6G				
20	250/3	JET BRIDGE PCA	41.7	41.7	41.7	2-1/2"C,3#250kcmil,#4G				
21	250/3	PANEL M3	34.8	34.8	34.8	2-1/2"C,3#250kcmil,#4G				
22	250/3	PANEL M5	0	0	0	2-1/2"C,3#250kcmil,#4G				
23	-/3	SPACE ONLY	0	0	0					
24	60/3	SPD-DSBC	0	0	0	1"C,3#6,#6N,#10G				
TOTAL CONNECTED KVA BY PHASE			627	630	624					
CONN KVA			CALC KVA			CONN KVA			CALC KVA	
LIGHTING	49.5	61.9	(125%)	CONTINUOUS	2.4	3	(125%)			
LARGEST MOTOR	54	67.6	(125%)	HEATING	22.9	0	(0%)			
OTHER MOTORS	280	280	(100%)	COOLING	277	277	(100%)			
RECEPTACLES	71.4	40.7	(50%>10)	NONCONTINUOUS	116	116	(100%)			
KITCHEN EQUIP	0	0	(N/A)	DIVERSE	1,020	18.2	(2%)			
				METERED DEMAND	0	0	(125%)			
TOTAL KVA			1,880			864			BALANCED 3-PHASE AMPS	
									1,040	

DSBA										
ROOM: ELECTRICAL ROOM A5			VOLTS: 480Y/277V 3P 4W			AIC: 22,000			MOUNTING: FLOOR	
MOUNTING: FLOOR			BUS AMPS: 1000			MAIN BKR: MLO			LUGS: STANDARD	
FED FROM: ATSA			NEUTRAL: 100%			LUGS: STANDARD			NOTE:	
CKT #	BREAKER TRIP/POLES	CIRCUIT DESCRIPTION	LOAD KVA			FEEDER RACEWAY AND CONDUCTORS				
			A	B	C	A	B	C		
1	600/3	PANEL CP	67.3	67.3	67.3	(2)3"C,3#300kcmil,#300kcmil N,#4G				
2	600/3	PANEL 4B	96.7	96.4	94.6	(2)3"C,3#300kcmil,#300kcmil N,#1G				
3	1000/3	PANEL MDP HR	41	41	41	(3)3-1/2"C,3#400kcmil,#400kcmil N,#2/0G				
4	400/3	MOTOR CONTROL CTR MCC-1	14.8	14.8	14.8	3"C,3#500kcmil,#3G				
5	125/3	FUTURE KITCHEN	44.3	44.3	44.3	(4)3-1/2"C,3#350kcmil,#350kcmil N,#300kcmil G				
6	225/3	PANEL B2	16.2	16	14	4"C,3#4/0,#1/0N,#4G				
7	225/3	PANEL B3	3	3	3	4"C,3#4/0,#1/0N,#4G				
8	125/3	XFMR B4 XMFR	3.09	4.19	3.5	1-1/4"C,3#2,#8G				
9	225/3	PANEL B8	8.33	8.33	8.33	2"C,3#2,#2N,#8G				
10	70/3	XFMR TW XFMR	5.53	5.53	5.53	1-1/4"C,3#4,#8G				
11	400/3	PANEL MC	16.5	15.5	18.3	3-1/2"C,3#500kcmil,#500kcmil N,#3G				
12	-/3	SPACE ONLY	0	0	0					
13	-/3	SPACE ONLY	0	0	0					
14	-/3	SPACE ONLY	0	0	0					
15	-/3	SPACE ONLY	0	0	0					
16	-/3	SPACE ONLY	0	0	0					
17	-/3	SPACE ONLY	0	0	0					
18	-/3	SPACE ONLY	0	0	0					
19	-/3	SPACE ONLY	0	0	0					
20	-/3	SPACE ONLY	0	0	0					
21	-/3	SPACE ONLY	0	0	0					
22	-/3	SPACE ONLY	0	0	0					
23	-/3	SPACE ONLY	0	0	0					
24	60/3	SPD-MSB	0	0	0	1"C,3#6,#6N,#10G				
25	20/3	SPARE	0	0	0					
26	20/3	SPARE	0	0	0					
27	20/3	SPARE	0	0	0					
28	20/3	SPARE	0	0	0					
29	20/3	SPARE	0	0	0					
30	20/3	SPARE	0	0	0					
31	20/3	SPARE	0	0	0					
32	20/3	SPARE	0	0	0					
33	20/3	SPARE	0	0	0					
34	20/3	SPARE	0	0	0					
35	20/3	SPARE	0	0	0					
36	20/3	SPARE	0	0	0					
37	20/3	SPARE	0	0	0					
38	20/3	SPARE	0	0	0					
39	20/3	SPARE	0	0	0					
40	20/3	SPARE	0	0	0					
TOTAL CONNECTED KVA BY PHASE			317	316	315					
CONN KVA			CALC KVA			CONN KVA			CALC KVA	
LIGHTING	37	46.3	(125%)	CONTINUOUS	38.8	(125%)				
LARGEST MOTOR	28.3	35.3	(125%)	HEATING	20.2	0	(0%)			
OTHER MOTORS	35	35	(100%)	COOLING	208	208	(100%)			
RECEPTACLES	133	133	(50%>10)	NONCONTINUOUS	149	149	(100%)			
KITCHEN EQUIP	0	0	(0%)	DIVERSE	299	0.5	(0%)			
				METERED DEMAND	0	0	(125%)			
TOTAL KVA			708			711			709	
									BALANCED 3-PHASE AMPS	
									886	

DSBC									
ROOM: ELECTRICAL ROOM A1110			VOLTS: 480Y/277V 3P 4W			AIC: 22,000			MOUNTING: SURFACE
MOUNTING: SURFACE			BUS AMPS: 400			MAIN BKR: 400			LUGS: STANDARD
FED FROM: TDP1			NEUTRAL: 100%			LUGS: STANDARD			NOTE:
CKT #	BREAKER TRIP/POLES	CIRCUIT DESCRIPTION	LOAD KVA			FEEDER RACEWAY AND CONDUCTORS			
			A	B	C	A	B	C	
1	15/3	BOILER #3	0.942	0.942	0.942	1-1/2"C,3#1/0,#6G			
2	225/3	PANEL P1	10.6	9.31	9.33	3-1/2"C,3#500kcmil,#500kcmil N,#3G			
3	4								
4	15/3	BOILER #4	0.942	0.942	0.942	1-1/2"C,3#1/0,#6G			
5	8								
6	15/3	BOILER #5	0.942	0.942	0.942	1-1/2"C,3#1/0,#6G			
7	10								
8	12								
9	14								
10	16								
11	18								
12	20								
13	22								
14	24								
15	26								
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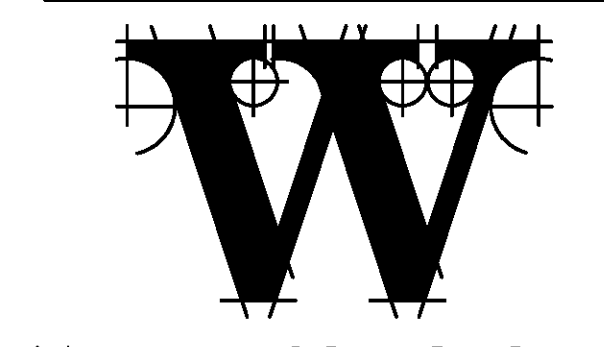
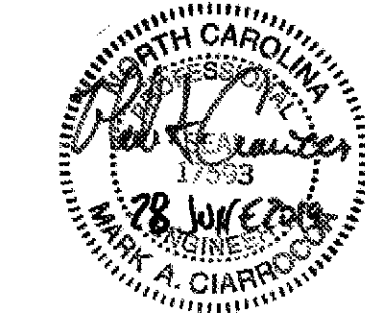


# TERMINAL IMPROVEMENTS CONTRACT 3

Wilmington International Airport  
1740 Airport Boulevard, Suite 12  
Wilmington, NC 28405

**CHEATHAM & ASSOCIATES, P.A.**  
CONSULTING ENGINEERS  
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REVISIONS

DATE 06/28/19  
PROJECT NUMBER 9202-000  
SHEET TITLE

**ELECTRICAL PANEL SCHEDULES**

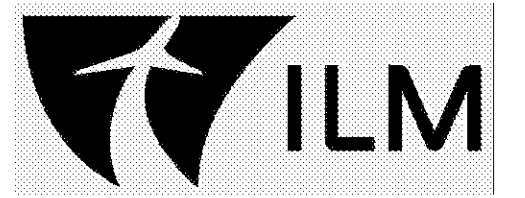
SHEET NUMBER  
**E-604**

L											
ROOM: ELECTRICAL ROOM A1110			VOLTS: 480V/277V 3P 4W			AIC: 22,000					
MOUNTING: SURFACE			BUS AMPS: 100			MAIN BKR: MLO					
FED FROM: DSBC			NEUTRAL: 100%			LUGS: STANDARD					
NOTE:											
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	20/1	LTG	2.28			2	20/1	LTG	2.13		
3	20/1	LTG		1.91		4	20/1	LTG		2.2	
5	20/1	LTG			0.47	6	20/1	LTG			1.35
7	20/1	LTG	0.564			8	20/1	LTG	1.77		0.912
9	20/1	APRON LTG		1.67		10	20/1	LTG			
11	20/1	APRON LTG			2.23	12	20/1	LTG			0.61
13	20/1	APRON LTG	1.67			14	20/1	LTG	2.48		
15	20/1	LTG		2.32		16	20/1	LTG		3.2	
17	20/1	LTG			1.02	18	20/1	LTG			1.28
19	20/1	LTG	0.329			20	20/1	LTG	2.64		
21	20/1	LTG		0.47		22	20/1	LTG		3.52	
23	20/1	LTG			0.27	24	20/1	LTG	0.48		2.24
25	20/1	LTG	0.516			26	20/1	LTG			
27	20/1	LTG		0.308		28	20/1	SPARE		0	0
29	20/1	LTG			0.588	30	20/1	SPARE		0	0
31	20/1	LTG	0.423			32	20/1	SPARE		0	0
33	20/1	SPARE		0		34	20/1	SPARE		0	0
35	20/1	SPARE		0		36	20/1	SPARE		0	0
37	20/1	SPARE	0			38	20/1	SPARE	0		
39	20/1	SPARE		0		40	20/1	SPARE		0	0
41	20/1	SPARE			0	42	20/1	SPARE			0
43	20/1	SPARE	0			44	20/1	SPARE	0		
45	20/1	SPARE		0		46	20/1	SPARE		0	0
47	20/1	PANEL LC			0	48	20/1	SPARE			0
49	30/3	SPD-L			0	50	20/1	SPARE	0		
51					0	52	20/1	SPARE		0	0
53					0	54	20/1	SPARE		0	0
TOTAL CONNECTED KVA BY PHASE									15.3	16.5	10.1
TOTAL CONNECTED AMPS BY PHASE									55.2	59.6	36.3
CONN KVA		CALC KVA		(125%)		CONN KVA		CALC KVA		(125%)	
LIGHTING	41.9	52.3			CONTINUOUS	0	0				(125%)
LARGEST MOTOR	0	0			HEATING	0	0				(N/A)
OTHER MOTORS	0	0			COOLING	0	0				(100%)
RECEPTACLES	0	0			NONCONTINUOUS	0	0				(100%)
KITCHEN EQUIP	0	0			DIVERSE	0	0				(N/A)
					METERED DEMAND	0	0				(125%)
TOTAL KVA		41.9		52.3		TOTAL KVA		41.9		52.3	
BALANCED 3-PHASE AMPS				62.9		BALANCED 3-PHASE AMPS				62.9	

M1											
ROOM: ELECTRICAL ROOM A1110			VOLTS: 480V 3P 3W			AIC: 22,000					
MOUNTING: SURFACE			BUS AMPS: 400			MAIN BKR: MLO					
FED FROM: DSBC			NEUTRAL: NONE			LUGS: STANDARD					
NOTE:											
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	30/3	PUMP P-14 CHILLER PRIMARY	3.88			2	15/3	PUMP P-22 HOT WATER BOILER	1.33		
3				3.88		4				1.33	
5					3.88	6					1.33
7	30/3	PUMP P-15 CHILLER PRIMARY	3.88			8	15/3	PUMP P-23 HOT WATER BOILER	1.33		
9				3.88		10				1.33	
11					3.88	12					1.33
13	50/3	PUMP P-16 CHILLED WATER SECONDARY	7.48			14	15/3	PUMP P-24 HOT WATER BOILER	1.33		
15				7.48		16				1.33	
17					7.48	18					1.33
19	50/3	PUMP P-17 CHILLED WATER SECONDARY	7.48			20	15/3	FAN F-29	0.443		
21				7.48		22				0.443	
23					7.48	24					0.443
25	70/3	PUMP P-18 CONDENSER WATER	9.42			26	15/3	FAN F-30	0.942		
27				9.42		28				0.942	
29					9.42	30					0.942
31	70/3	PUMP P-19 CONDENSER WATER	9.42			32	15/3	FAN F-31	0.942		
33				9.42		34				0.942	
35					9.42	36					0.942
37	30/3	PUMP P-20 HOT WATER SYSTEM	3.05			38	15/3	ELECTRIC UNIT HEATER - UH-32	1.67		
39				3.05		40				1.67	
41					3.05	42					1.67
43	30/3	PUMP P-21 HOT WATER SYSTEM	3.05			44	20/3	SPARE	0		
45				3.05		46				0	0
47					3.05	48					0
49	60/3	SPACE	0			50	60/3	SPACE	0		
51				0		52				0	0
53					0	54					0
TOTAL CONNECTED KVA BY PHASE									55.7	55.7	55.7
TOTAL CONNECTED AMPS BY PHASE									201	201	201
CONN KVA		CALC KVA		(125%)		CONN KVA		CALC KVA		(125%)	
LIGHTING	0	0			CONTINUOUS	0	0				(125%)
LARGEST MOTOR	28.3	35.3			HEATING	0	0				(N/A)
OTHER MOTORS	80.6	80.6			COOLING	0	0				(100%)
RECEPTACLES	0	0			NONCONTINUOUS	0	0				(100%)
KITCHEN EQUIP	0	0			DIVERSE	58	1.25				(2%)
					METERED DEMAND	0	0				(125%)
TOTAL KVA		167		117		TOTAL KVA		167		117	
BALANCED 3-PHASE AMPS				141		BALANCED 3-PHASE AMPS				141	

M2											
ROOM: ELECTRICAL ROOM A1110			VOLTS: 480V 3P 3W			AIC: 22,000					
MOUNTING: SURFACE			BUS AMPS: 250			MAIN BKR: MLO					
FED FROM: DSBC			NEUTRAL: NONE			LUGS: STANDARD					
NOTE:											
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	50/3	AHU#3	6.1			2	15/3	ELECTRIC UNIT HEATER - UH-27	1.67		
3				6.1		4				1.67	
5					6.1	6					1.67
7	50/3	AHU#7	6.1			8	15/3	ELECTRIC UNIT HEATER - UH-28	1.67		
9				6.1		10				1.67	
11					6.1	12					1.67
13	50/3	AHU#8	6.1			14	15/3	ELECTRIC UNIT HEATER - UH-29	2.5		
15				6.1		16				2.5	
17					6.1	18					2.5
19	15/3	AHU#9 (SUPPLY)	1.33			20	20/3	ELECTRIC UNIT HEATER - UH-30	2.5		
21				1.33		22				2.5	
23					1.33	24					2.5
25	15/3	AHU#9 (RELIEF)	0.831			26	15/3	ELECTRIC UNIT HEATER - UH-31	2.5		
27				0.831		28				2.5	
29					0.831	30					2.5
31	25/3	AHU#10 (SUPPLY)	2.66			32	15/3	ELECTRIC UNIT HEATER - UH-33	1.67		
33				2.66		34				1.67	
35					2.66	36					1.67
37	15/3	AHU#10 (RELIEF)	1.66			38	15/3	ELECTRIC UNIT HEATER - UH-34	2.5		
39				1.66		40				2.5	
41					1.66	42					2.5
43	20/3	AHU#11 (SUPPLY)	2.11			44	15/3	ELECTRIC UNIT HEATER - UH-35	2.5		
45				2.11		46				2.5	
47					2.11	48					2.5
49	15/3	AHU#11 (RELIEF)	0.831			50	15/3	ELECTRIC UNIT HEATER - UH-37	1.82		
51				0.831		52				1.82	
53					0.831	54					1.82
TOTAL CONNECTED KVA BY PHASE									47	47	47
TOTAL CONNECTED AMPS BY PHASE									170	170	170
CONN KVA		CALC KVA		(125%)		CONN KVA		CALC KVA		(125%)	
LIGHTING	0	0			CONTINUOUS	0	0				(125%)
LARGEST MOTOR	9.15	11.4			HEATING	5	5				(100%)
OTHER MOTORS	74.5	74.5			COOLING	0	0				(N/A)
RECEPTACLES	0	0			NONCONTINUOUS	0	0				(100%)
KITCHEN EQUIP	0	0			DIVERSE	52.5	13.1				(25%)
					METERED DEMAND	0	0				(125%)
TOTAL KVA		141		104		TOTAL KVA		141		104	
BALANCED 3-PHASE AMPS				125		BALANCED 3-PHASE AMPS				125	

M3											
ROOM: ELECTRICAL ROOM A1110			VOLTS: 480V 3P 3W			AIC: 22,000					
MOUNTING: SURFACE			BUS AMPS: 250			MAIN BKR: MLO					
FED FROM: DSBC			NEUTRAL: NONE			LUGS: STANDARD					
NOTE:											
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	15/3	BCAHU#4	1.33			2	15/3	BCAHU#11	1.33		
3				1.33		4				1.33	
5					1.33	6					1.33
7	15/3	BCAHU#5	1.33			8	15/3	BCAHU#12	1.33		
9				1.33		10				1.33	
11					1.33	12		</			

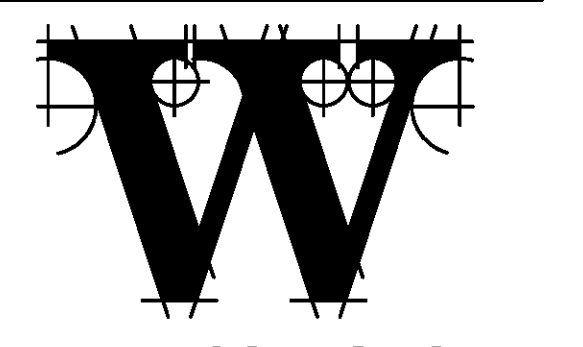
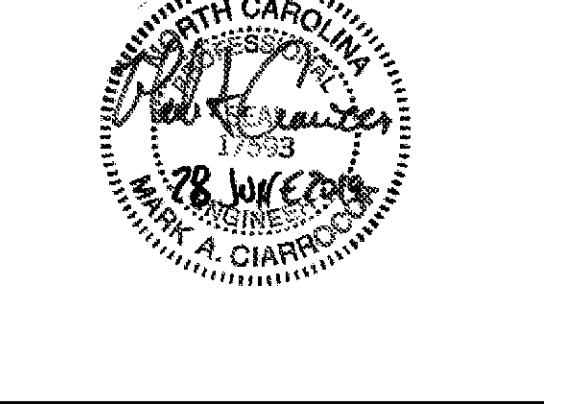


TERMINAL IMPROVEMENTS CONTRACT 3

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REVISIONS

DATE 06/28/19 PROJECT NUMBER 9202-000 SHEET TITLE

ELECTRICAL PANEL SCHEDULES

SHEET NUMBER E-605

P3: ELECTRICAL ROOM A1110. Table with columns for CKT #, CKT BKR, CIRCUIT DESCRIPTION, LOAD KVA (A, B, C), and summary rows for total connected kVA and amps by phase.

P2: ELECTRICAL ROOM A1110. Table with columns for CKT #, CKT BKR, CIRCUIT DESCRIPTION, LOAD KVA (A, B, C), and summary rows for total connected kVA and amps by phase.

P1: ELECTRICAL ROOM A1110. Table with columns for CKT #, CKT BKR, CIRCUIT DESCRIPTION, LOAD KVA (A, B, C), and summary rows for total connected kVA and amps by phase.

P5: ELECTRICAL ROOM A1110. Table with columns for CKT #, CKT BKR, CIRCUIT DESCRIPTION, LOAD KVA (A, B, C), and summary rows for total connected kVA and amps by phase.

P4: ELECTRICAL ROOM A1110. Table with columns for CKT #, CKT BKR, CIRCUIT DESCRIPTION, LOAD KVA (A, B, C), and summary rows for total connected kVA and amps by phase.

P3A: ELECTRICAL ROOM A1110. Table with columns for CKT #, CKT BKR, CIRCUIT DESCRIPTION, LOAD KVA (A, B, C), and summary rows for total connected kVA and amps by phase.

PIT: IT A1112. Table with columns for CKT #, CKT BKR, CIRCUIT DESCRIPTION, LOAD KVA (A, B, C), and summary rows for total connected kVA and amps by phase.

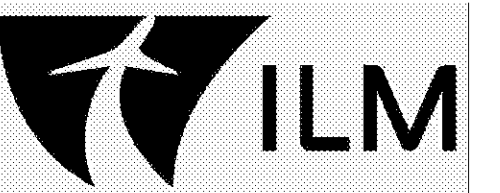
41B			ROOM: RM #129			VOLTS: 480Y/277V 3P 4W			AIC: 10,000		
MOUNTING: SURFACE			BUS AMPS: 600			NEUTRAL: 100%			MAIN BKR: MLO		
FED FROM: DSBA			LUGS: STANDARD								
NOTE:											
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	125/3	MCP-IB1	27.7			2	125/3	XFMR T21B	4.11	3.8	
3			27.7			4					4.03
5				27.7		6					
7	125/3	MCP-IB2	27.7			8	20/1	APRON LTG	2.23		
9				27.7		10	20/1	APRON LTG		2.23	
11					27.7	12	20/1	LTG-WALLPACK			0.225
13	70/3	COOLING TOWER #CT-1	9.42			14	20/3	SPARE	0		
15			9.42			16					
17				9.42		18					
19	40/3	COOLING TOWER #CT-1 SUMP HEATER	6.67			20	20/3	SPARE	0		
21			6.67			22					
23				6.67		24					
25	70/3	COOLING TOWER #CT-2	9.42			26	20/3	SPARE	0		
27				9.42		28					
29					9.42	30					
31	40/3	COOLING TOWER #CT-2 SUMP HEATER	6.67			32	20/3	SPARE	0		
33			6.67			34					
35				6.67		36					
37	15/3	FAN SF-3	0.942			38	15/3	FAN F-35, FAN F-36	1.88		
39			0.942			40				1.88	
41					0.942	42					1.88
TOTAL CONNECTED KVA BY PHASE									96.7	96.4	94.6
TOTAL CONNECTED AMPS BY PHASE									349	348	341
CONN KVA			CALC KVA			CONN KVA			CALC KVA		
LIGHTING	4.89	6.11	(125%)	CONTINUOUS	22	27.5	(125%)				
LARGEST MOTOR	28.3	35.3	(125%)	HEATING	0	0	(N/A)				
OTHER MOTORS	121	121	(100%)	COOLING	0	0	(N/A)				
RECEPTACLES	5.04	5.04	(50%>10)	NONCONTINUOUS	0	0	(100%)				
KITCHEN EQUIP	0	0	(N/A)	DIVERSE	107	0	(0%)				
				METERED DEMAND	0	0	(125%)				
TOTAL KVA				288				195			
BALANCED 3-PHASE AMPS				234							

21B			ROOM: RM #129			VOLTS: 208Y/120V 3P 4W			AIC: 10,000		
MOUNTING: SURFACE			BUS AMPS: 225			NEUTRAL: 100%			MAIN BKR: 225		
FED FROM: T21B			LUGS: STANDARD								
NOTE:											
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	20/1	* REC-EXT GFCl	0.36			2	20/1	REC, REC-EXT GFCl	0.72		
3	20/1	* REC-HEAT TRACE		1		4	20/1	REC, REC-EXT GFCl		0.72	
5	20/1	* REC-HEAT TRACE			1	6	20/1	REC, REC-EXT GFCl			1.08
7	20/1	POWER DOOR #1	1.18			8	20/1	REC	0.36		
9	20/1	POWER DOOR #2		1.18		10	20/1	REC, REC-EXT GFCl		0.72	
11	20/1	POWER DOOR #3			1.18	12	20/1	REC			1.08
13	20/1	POWER DOOR #4	1.18			14	20/1	OBSTRUCTION LIGHT	0.1		
15	20/1	SPARE				16	20/1	OBSTRUCTION LIGHT		0.1	
17	20/1	SPARE			0	18	20/1	SPARE			0
19	20/1	SPARE			0	20	20/1	SPARE			0
21	20/1	SPARE			0	22	20/1	SPARE			0
23	20/1	SPARE			0	24	20/1	SPARE			0
25	20/1	SPARE			0	26	20/1	SPARE			0
27	20/1	SPARE			0	28	20/1	SPARE			0
29	20/1	SPARE			0	30	20/1	SPARE			0
31	20/1	SPARE			0	32	20/1	SPARE			0
33	20/1	SPARE			0	34	20/1	SPARE			0
35	20/1	SPARE			0	36	20/1	SPARE			0
37	20/1	SPARE			0	38	20/1	SPARE			0
39	20/1	SPARE			0	40	20/1	SPARE			0
41	20/1	SPARE			0	42	20/1	SPARE			0
43	20/1	SPARE			0	44	20/1	SPARE			0
45	20/1	SPARE			0	46	20/1	SPARE			0
47	20/1	SPARE			0	48	20/1	SPARE			0
49	20/1	SPARE			0	50	20/1	SPARE			0
51	20/1	SPARE			0	52	20/1	SPARE			0
53	20/1	SPARE			0	54	20/1	SPARE			0
TOTAL CONNECTED KVA BY PHASE									3.89	3.72	4.34
TOTAL CONNECTED AMPS BY PHASE									32.4	31	36.1
CONN KVA			CALC KVA			CONN KVA			CALC KVA		
LIGHTING	0.2	0.25	(125%)	CONTINUOUS	2	2.5	(125%)				
LARGEST MOTOR	1.18	1.47	(125%)	HEATING	0	0	(N/A)				
OTHER MOTORS	0	0	(100%)	COOLING	0	0	(N/A)				
RECEPTACLES	5.04	5.04	(50%>10)	NONCONTINUOUS	0	0	(100%)				
KITCHEN EQUIP	0	0	(N/A)	DIVERSE	3.53	0	(0%)				
				METERED DEMAND	0	0	(125%)				
TOTAL KVA				11.9				9.26			
BALANCED 3-PHASE AMPS				25.7							

GDP			ROOM: ELECTRICAL ROOM A5			VOLTS: 480Y/277V 3P 4W			AIC: 22,000		
MOUNTING: SURFACE			BUS AMPS: 400			NEUTRAL: 100%			MAIN BKR: MLO		
FED FROM: ATSG			LUGS: STANDARD								
NOTE:											
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	200/3	PANEL G2	7.15			2	20/1	LTG	0.44		
3				6.39		4	20/1	EXIT, LTG		0.178	
5					5.12	6	20/1	EXIT, LTG, LTG-WALLPACK			1.19
7	20/1	EXIT, LTG	1.8			8	20/1	SPARE	0		
9	20/1	LTG		1.27		10	20/1	SPARE			
11	20/1	LTG			0.225	12	20/1	SPARE			
13	20/1	LTG	0.2			14	20/1	SPARE			
15	20/1	SPARE			0	16	20/1	SPARE			
17	20/1	SPARE			0	18	20/1	SPARE			
19	20/1	SPARE			0	20	20/1	SPARE			
21	20/1	SPARE			0	22	20/1	SPARE			
23	20/1	SPARE			0	24	20/1	SPARE			
25	20/1	SPARE			0	26	20/1	SPARE			
27	20/1	SPARE			0	28	20/1	SPARE			
29	20/1	SPARE			0	30	20/1	SPARE			
31	20/1	SPARE			0	32	20/1	SPARE			
33	20/1	SPARE			0	34	20/1	SPARE			
35	20/1	SPARE			0	36	20/1	SPARE			
37	20/1	SPARE			0	38	20/1	SPARE			
39	20/1	SPARE			0	40	20/1	SPARE			
41	20/1	SPARE			0	42	20/1	SPARE			
TOTAL CONNECTED KVA BY PHASE									9.59	7.83	6.53
TOTAL CONNECTED AMPS BY PHASE									34.6	28.3	23.6
CONN KVA			CALC KVA			CONN KVA			CALC KVA		
LIGHTING	20.4	25.4	(125%)	CONTINUOUS	0	0	(125%)				
LARGEST MOTOR	0	0	(N/A)	HEATING	0	0	(N/A)				
OTHER MOTORS	0	0	(100%)	COOLING	0	0	(N/A)				
RECEPTACLES	3.6	3.6	(50%>10)	NONCONTINUOUS	0	0	(100%)				
KITCHEN EQUIP	0	0	(N/A)	DIVERSE	0	0	(N/A)				
				METERED DEMAND	0	0	(125%)				
TOTAL KVA				24				29			
BALANCED 3-PHASE AMPS				34.9							

G2			ROOM: ELECTRICAL ROOM A1110			VOLTS: 480Y/277V 3P 4W			AIC: 22,000		
MOUNTING: SURFACE			BUS AMPS: 200			NEUTRAL: 100%			MAIN BKR: MLO		
FED FROM: GDP			LUGS: STANDARD								
NOTE:											
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	20/1	LTG	1.05			2	20/1	LTG	0.32		
3	20/1	EXIT, LTG		1.27		4	20/1	LTG		1.28	
5	20/1	LTG, LTG-WALLPACK			0.648	6	20/1	LTG			2.4
7	20/1	EXIT, LTG	1.53			8	20/1	LTG	1.28		
9	20/1	EXIT, LTG		1.3		10	20/1	SPARE			0
11	20/1	EXIT, LTG			0.876	12	20/1	SPARE			0
13	20/1	EXIT, LTG	1.17			14	20/1	SPARE			
15	20/1	EXIT, LTG		0.737		16	20/1	SPARE			
17	20/1	SPARE			0	18	20/1	SPARE			0
19	20/1	SPARE			0	20	20/1	SPARE			0
21	20/1	SPARE			0	22	20/1	SPARE			0
23	20/1	SPARE			0	24	20/1	SPARE			0
25	20/1	SPARE			0	26	20/1	SPARE			0
27	20/1	SPARE			0	28	20/1	SPARE			0
29	20/1	SPARE			0	30	20/1	SPARE			0
31	20/1	SPARE			0	32	20/1	SPARE			0
33	20/1	SPARE			0	34	20/1	SPARE			0
35	20/1	SPARE			0	36	20/1	SPARE			0
37	20/1	SPARE									



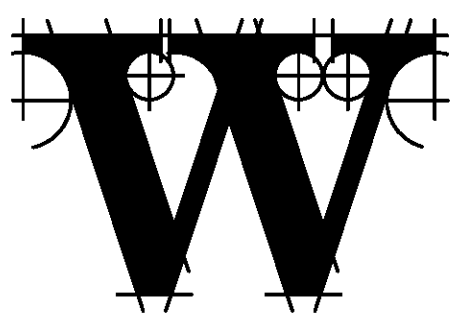
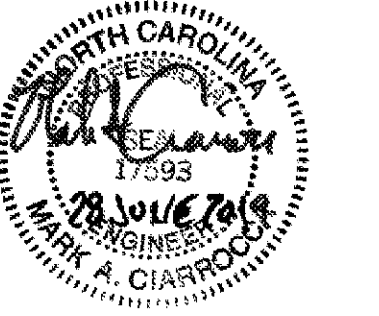


# TERMINAL IMPROVEMENTS CONTRACT 3

Wilmington International Airport  
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BAGGAGE HANDLING CONSULTANTS  
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AIRCRAFT SUPPORT SYSTEMS  
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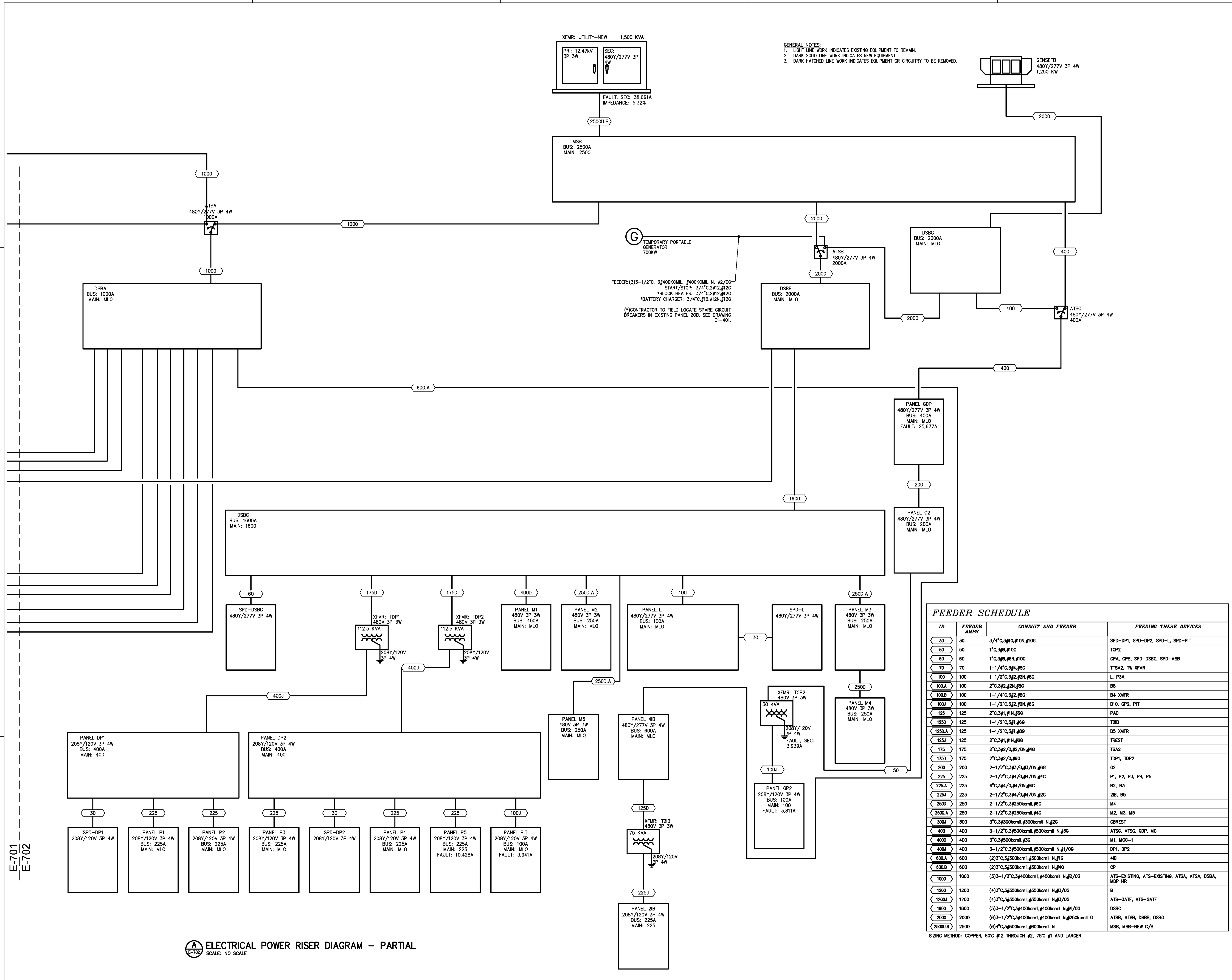
REVISIONS

DATE 06/28/19  
PROJECT NUMBER 9202-000  
SHEET TITLE

## ELECTRICAL POWER RISER DIAGRAM, PARTIAL

SHEET NUMBER

# E-702



ID	FEEDER AMPS	CONDUIT AND FEEDER	FEEDING THESE DEVICES
30	30	3/4"C, 3#10, #10N, #10G	SPD-DP1, SPD-DP2, SPD-L, SPD-PIT
50	50	1"C, 3#6, #10G	TGP2
60	60	1"C, 3#6, #8N, #10G	GPA, GPB, SPD-DSBC, SPD-MSB
70	70	1-1/4"C, 3#4, #8G	TTSA2, TW XFMR
100	100	1-1/2"C, 3#2, #2N, #8G	L, P3A
100A	100	2"C, 3#2, #2N, #8G	B8
100B	100	1-1/4"C, 3#2, #8G	B4 XFMR
100J	100	1-1/2"C, 3#2, #2N, #8G	B10, GP2, PIT
125	125	2"C, 3#1, #1N, #8G	PAD
125D	125	1-1/2"C, 3#1, #8G	T2IB
125DA	125	1-1/2"C, 3#1, #8G	B5 XFMR
125J	125	2"C, 3#1, #1N, #8G	TREST
175	175	2"C, 3#2/0, #2/0N, #4G	TTSA2
175D	175	2"C, 3#2/0, #8G	TDP1, TDP2
200	200	2-1/2"C, 3#3/0, #3/0N, #6G	G2
225	225	2-1/2"C, 3#4/0, #4/0N, #4G	P1, P2, P3, P4, P5
225A	225	4"C, 3#4/0, #4/0N, #4G	B2, B3
225J	225	2-1/2"C, 3#4/0, #4/0N, #2G	2IB, B5
250D	250	2-1/2"C, 3#250kcmil, #6G	M4
250DA	250	2-1/2"C, 3#250kcmil, #4G	M2, M3, M5
300J	300	3"C, 3#300kcmil, #300kcmil N, #2G	CBREST
400	400	3-1/2"C, 3#500kcmil, #500kcmil N, #3G	ATSG, ATSG, GDP, MC
400D	400	3"C, 3#500kcmil, #3G	M1, MCC-1
400J	400	3-1/2"C, 3#500kcmil, #500kcmil N, #1/0G	DP1, DP2
600A	600	(2)3"C, 3#300kcmil, #300kcmil N, #1G	4B
600B	600	(2)3"C, 3#300kcmil, #300kcmil N, #4G	CP
1000	1000	(3)3-1/2"C, 3#400kcmil, #400kcmil N, #2/0G	ATS-EXISTING, ATS-EXISTING, ATSA, ATSA, DSBA, MDP HR
1200	1200	(4)3"C, 3#350kcmil, #350kcmil N, #3/0G	B
1200J	1200	(4)3"C, 3#350kcmil, #350kcmil N, #3/0G	ATS-GATE, ATS-GATE
1600	1600	(5)3-1/2"C, 3#400kcmil, #400kcmil N, #4/0G	DSBC
2000	2000	(6)3-1/2"C, 3#400kcmil, #400kcmil N, #250kcmil G	ATSB, ATSB, DSBB, DSBG
2500J.B	2500	(6)4"C, 3#600kcmil, #600kcmil N	MSB, MSB-NEW C/B

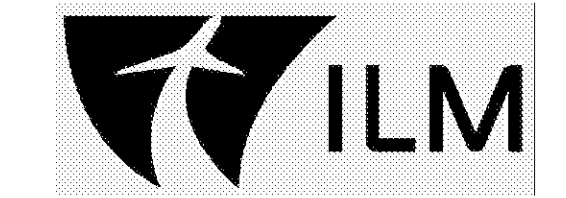
SIZING METHOD: COPPER, 60°C #12 THROUGH #2, 75°C #1 AND LARGER

**ELECTRICAL POWER RISER DIAGRAM - PARTIAL**  
SCALE: NO SCALE



FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:  
 • SEE ARCHITECTURAL PLANS A-01\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.  
 • SEE BAGGAGE HANDLING SYSTEM PLANS B-\* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.  
 • COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.

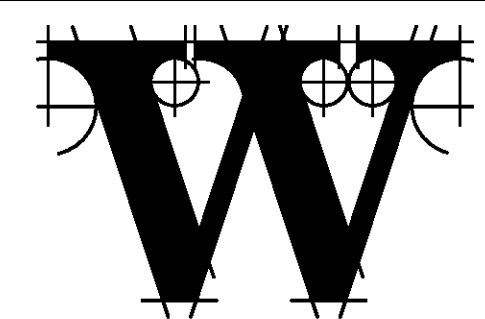
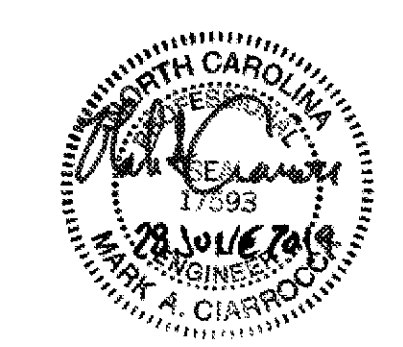
NOTES:  
 1. SEPARATELY SHADED & HATCHED AREAS INDICATE INDIVIDUAL INTERCOM SYSTEM ZONES.



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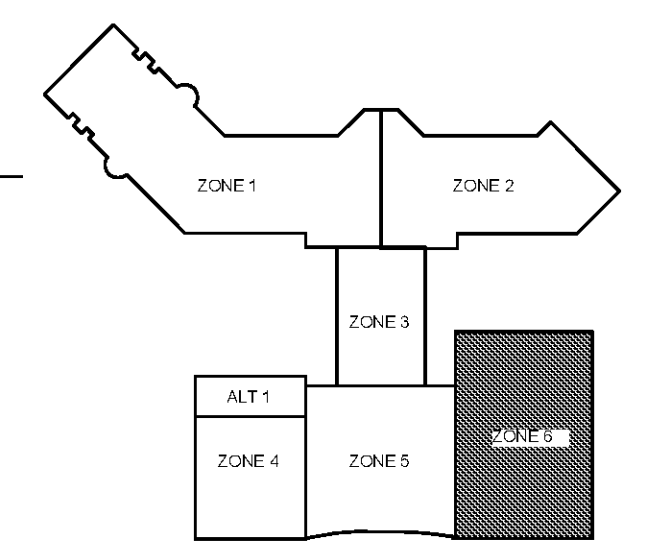
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**KEY PLAN**

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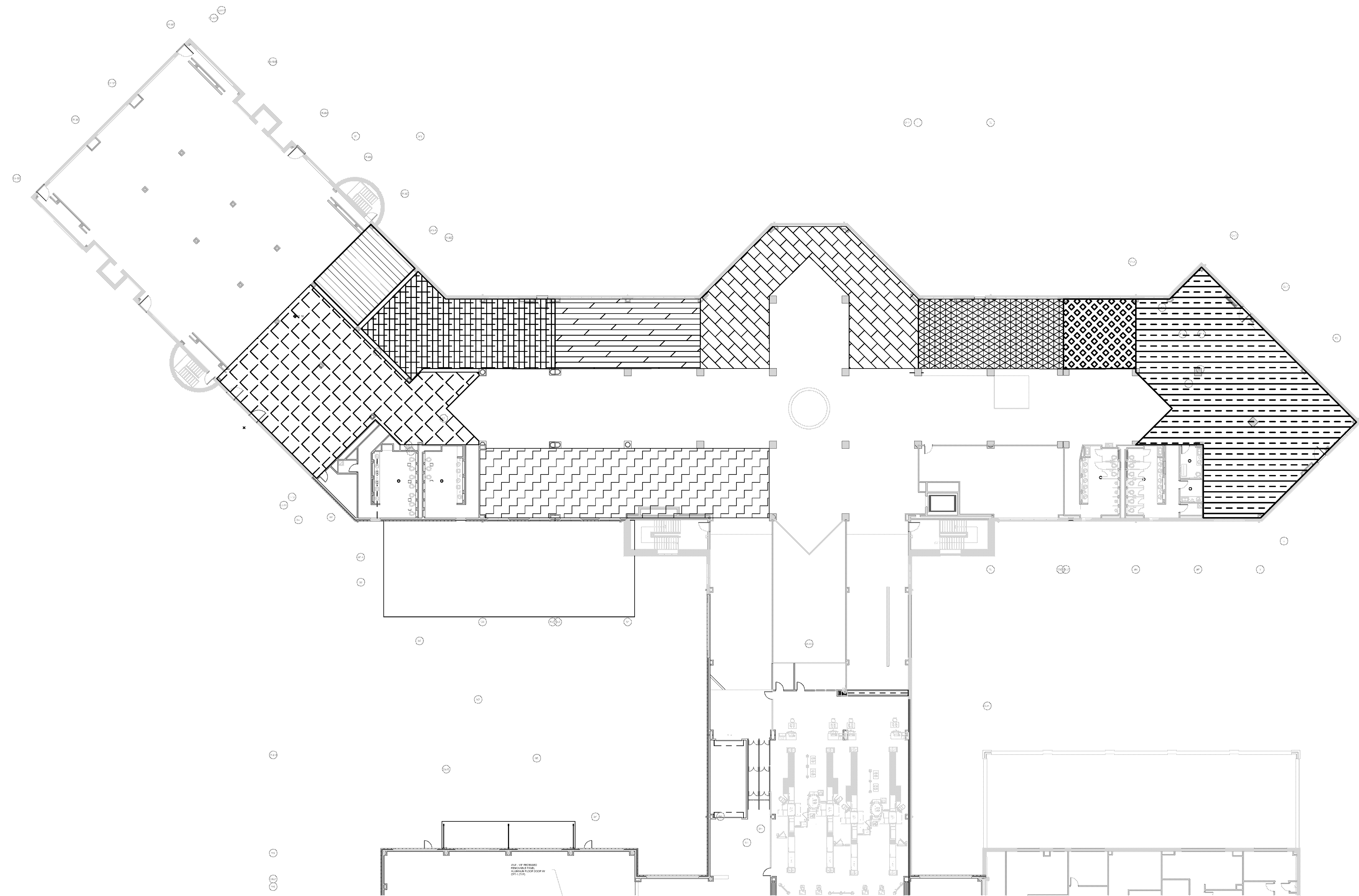
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**REVISIONS**

DATE 06/28/19  
 PROJECT NUMBER 9202-000  
 SHEET TITLE

**ELECTRICAL PA ZONE COVERAGE PLAN**

SHEET NUMBER  
**E-801**



**ELECTRICAL BOARDING LEVEL -PA SYSTEM ZONE PLAN**  
 SCALE: 1/16" = 1'-0"

