

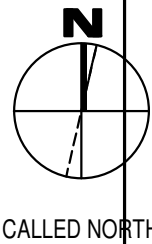
DEFINE

ELECTRICAL ABBREVIATIONS

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

ELECTRICAL LINE TYPE LEGEND

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



DESIGN

ELECTRICAL LEGEND

SYMBOL	LIGHTING DESCRIPTION	SYMBOL	SPECIAL SYSTEMS DESCRIPTION
	LIGHTING FIXTURE-REFER TO LIGHTING FIXTURE SCHEDULE		COMMUNICATIONS OUTLET - DEEP 4" SQUARE BOX WITH SINGLE GANG PLASTER RING WITH CABLE/PULLSTRING IN 1" CONDUIT TO ACCESSIBLE CEILING (18" A.F.F. OR AS NOTED) - PROVIDE A BLANK PLATE OR XX DENOTES CABLE TYPE AND QUANTITY; P=PHONE, D=DATA, C=COAX REFER TO SPECIFICATIONS
	LIGHTING FIXTURE-REFER TO LIGHTING FIXTURE SCHEDULE		TELEVISION OUTLET-DEEP 4" SQUARE BOX WITH SINGLE GANG PLASTER RING WITH CABLE/PULLSTRING IN 1" C. TO ACCESSIBLE CEILING (VERIFY MOUNTING HEIGHT AND LOCATION WITH ARCHITECT) - PROVIDE BLANK PLATE OR XX DENOTES CABLE TYPE AND QUANTITY; P=PHONE, D=DATA, C=COAX REFER TO SPECIFICATIONS
	LIGHTING FIXTURE-REFER TO LIGHTING FIXTURE SCHEDULE		DATA JACK ABOVE CEILING W/ 30' OF SLACK (FUTURE WIRELESS ACCESS POINT) XX - DENOTES CABLE QUANTITY
	LIGHTING FIXTURE-REFER TO LIGHTING FIXTURE SCHEDULE		AUDIO & VISUAL - DEEP 4" SQUARE DEEP DOUBLE GANG BOX WITH DOUBLE GANG PLASTER RING (MOUNT 18" A.F.F. V.O.J.) WITH 1 1/4" CONDUIT WITH CABLE/PULLSTRING TO A MINIMUM OF 6" ABOVE CEILING.
	CEILING MOUNTED EXIT LIGHT - REFER TO LIGHTING FIXTURE SCHEDULE - ARROWS DEFINE DIRECTION		OVERHEAD PROJECTOR - DEEP 4" SQUARE BOX INSTALLED ABOVE CEILING ADJACENT TO OVERHEAD PROJECTOR (SEE DETAIL)
	WALL MOUNTED EXIT LIGHT - COORDINATE FINAL MOUNTING HEIGHT WITH THE ARCHITECT - REFER TO LIGHTING FIXTURE SCHEDULE - ARROWS DEFINE DIRECTION		AUDIO & VISUAL - RECESSED FLOOR BOX - WIREMOLD RFB9 OR EQUAL (SEE DETAIL)
	EMERGENCY LIGHT (8'-0" A.F.F. OR AS NOTED) - REFER TO LIGHTING FIXTURE SCHEDULE		SMART BOARD J-BOX - 4" SQUARE DEEP BOX WITH SINGLE GANG PLASTER RING WITH CABLE/PULLSTRING IN 3/4" CONDUIT TO ACCESSIBLE CEILING. (SEE DETAIL)
	CEILING MOUNTED EGRESS LIGHT - REFER TO LIGHTING FIXTURE SCHEDULE		CONTROL STATION - 4" SQUARE DEEP BOX WITH SINGLE GANG PLASTER RING WITH CABLE/PULLSTRING IN 3/4" CONDUIT TO ACCESSIBLE CEILING. (SEE DETAIL)
	PHOTOCELL	FIRE ALARM DESCRIPTION	
	SINGLE POLE TOGGLE SWITCH (48" A.F.F. TO CENTER OF DEVICE OR AS NOTED)		FIRE ALARM PULL STATION - DEEP 4" SQUARE BOX WITH SINGLE GANG PLASTER RING WITH CABLE IN 3/4" CONDUIT TO ACCESSIBLE CEILING (48" A.F.F. TO CENTER OF DEVICE)
	THREE-WAY TOGGLE SWITCH (48" A.F.F. TO CENTER OF DEVICE OR AS NOTED)		FIRE ALARM VALVE SUPERVISORY SWITCH- PROVIDE MONITORING MODULE FOR ALL VALVE SUPERVISORY SWITCHES, COORDINATE REQUIREMENTS, QUANTITIES, AND LOCATIONS WITH THE SPRINKLER CONTRACTOR
	WALL MOUNTED DIMMER SWITCH WITH ON/OFF AND 0-10V OUTPUT DIMMING. DIMMER MUST BE COMPATIBLE WITH BALLAST OR LED. REFER TO SPECIFICATIONS. PROVIDE ALL NECESSARY CONDUCTORS FOR COMPLETE OPERATING SYSTEM. (48" A.F.F. TO CENTER OF DEVICE OR AS NOTED)		FIRE ALARM FLOW DETECTOR/SWITCH - PROVIDE MONITORING MODULE FOR ALL FLOW DETECTORS/SWITCHES, COORDINATE REQUIREMENTS, QUANTITIES, AND LOCATIONS WITH THE SPRINKLER CONTRACTOR
	MOTOR RATED SWITCH (48" A.F.F. TO CENTER OF DEVICE OR AS NOTED). CONTRACTOR TO PROVIDE SWITCH TO DE-ENERGIZE EACH CURRENT CARRYING CONDUCTOR. LOCATE ADJACENT TO EQUIPMENT BEING SERVED IN A READILY ACCESSIBLE LOCATION.		MAGNETIC DOOR HOLDER - CONTRACTOR TO CONNECT TO 120V CIRCUIT. DOOR HOLDERS SHALL RELEASE UPON ACTIVATION OF THE FIRE ALARM SYSTEM
	SINGLE POLE KEYED SWITCH (48" A.F.F. TO CENTER OF DEVICE OR AS NOTED)		FIRE ALARM CONTROL PANEL
	SINGLE POLE SWITCH. MOUNT IN DOOR SWING. LEE ELECTRIC: 210DN		FIRE ALARM ANNUNCIATOR PANEL - BACK BOX WITH 1" CONDUIT MINIMUM TO ACCESSIBLE CEILING
	SWITCH (48" A.F.F. TO CENTER OF DEVICE OR AS NOTED); COORDINATE TYPE AND INSTALLATION REQUIREMENTS WITH MANUFACTURE. COORDINATE LOCATION WITH OWNER.		SMOKE DETECTOR - DEEP 4" SQUARE BOX WITH SINGLE GANG PLASTER RING WITH CABLE IN 3/4" CONDUIT TO ACCESSIBLE CEILING.
	SINGLE POLE SWITCH. MOUNT IN DOOR SWING. LEE ELECTRIC: 210DN		SINGLE STATION SMOKE DETECTOR 120 VOLT WITH BATTERY BACKUP AND INTERCONNECTED TO ALL SMOKE DETECTORS IN UNIT.
	INBOARD AND OUTBOARD SWITCHING UNLESS NOTED OTHERWISE (48" A.F.F. TO CENTER OF DEVICE OR AS NOTED)		FIRE ALARM DUCT DETECTOR
	SINGLE POLE DIGITAL PRESET COUNT DOWN TYPE TIMER SWITCH (48" A.F.F. TO CENTER OF DEVICE OR AS NOTED) SENSORSWITCH PTS 60 OR EQUAL		HEAT DETECTOR - DEEP 4" SQUARE BOX WITH SINGLE GANG PLASTER RING WITH CABLE IN 3/4" CONDUIT TO ACCESSIBLE CEILING.
	WALL MOUNTED OCCUPANCY SENSOR (48" AFF TO CENTER OF DEVICE OR AS NOTED) - REFER TO SPECIFICATIONS.		ADDRESSABLE INPUT/OUTPUT MODULE
	WALL MOUNTED DOUBLE SWITCH OCCUPANCY SENSOR (48" AFF TO CENTER OF DEVICE OR AS NOTED) - REFER TO SPECIFICATIONS.		FIRE ALARM WALL MOUNTED STROBE UNIT - DEEP 4" SQUARE BOX WITH SINGLE GANG PLASTER RING WITH CABLE IN 3/4" CONDUIT TO ACCESSIBLE CEILING (MOUNTING HEIGHT AS PER NFPA 72, ALL DEVICES SHALL BE AT SAME HEIGHT) XX DENOTES CANDELA RATING
	CORNER MOUNTED OCCUPANCY SENSOR - MOUNTING HEIGHT TO BE DETERMINED PER MANUFACTURER'S RECOMMENDATIONS FOR OPTIMAL COVERAGE - MYTECH, WATT STOPPER		FIRE ALARM CEILING MOUNTED STROBE - XX DENOTES CANDELA RATING
POWER DESCRIPTION			FIRE ALARM WALL MOUNTED HORN/STROBE UNIT - DEEP 4" SQUARE BOX WITH SINGLE GANG PLASTER RING WITH CABLE IN 3/4" CONDUIT TO ACCESSIBLE CEILING (MOUNTING HEIGHT AS PER NFPA 72, ALL DEVICES SHALL BE AT SAME HEIGHT) XX DENOTES CANDELA RATING
	DUPLEX CONVENIENCE OUTLET (18" A.F.F. FOR GENERAL AREAS, 36" A.F.F. FOR GARAGES, HANGARS AND THE LIKE OR AS NOTED)		FIRE ALARM CEILING MOUNTED HORN/STROBE - XX DENOTES CANDELA RATING
	TELEVISION OUTLET (VERIFY MOUNTING HEIGHT AND LOCATION WITH ARCHITECT)		FIRE ALARM WALL MOUNTED HORN/STROBE UNIT - DEEP 4" SQUARE BOX WITH SINGLE GANG PLASTER RING WITH CABLE IN 3/4" CONDUIT TO ACCESSIBLE CEILING (MOUNTING HEIGHT AS PER NFPA) XX DENOTES CANDELA RATING
	ELECTRICAL WATER COOLER; COORDINATE ELECTRICAL DEVICE/OUTLET TYPE AND LOCATION WITH PLUMBING CONTRACTOR (CONCEAL OUTLET/DEVICE BEHIND COOLER) OUTLET TO BE GROUND FAULT INTERRUPTER PROTECTED.		FIRE ALARM CEILING MOUNTED HORN/STROBE - XX DENOTES CANDELA RATING
	MICROWAVE OUTLET - RECESSED 20 AMP DUPLEX OUTLET. HUBBELL OR EQUAL. VERIFY EXACT MOUNTING LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH IN.		FIRE ALARM WALL MOUNTED SPEAKER - DEEP 4" SQUARE BOX WITH SINGLE GANG PLASTER RING WITH CABLE IN 3/4" CONDUIT TO ACCESSIBLE CEILING (MOUNTING HEIGHT AS PER NFPA 72, ALL DEVICES SHALL BE AT THE SAME HEIGHT)
	WATER HEATER; COORDINATE ELECTRICAL OUTLET/DISCONNECT TYPE AND LOCATION WITH PLUMBING CONTRACTOR		FIRE ALARM CEILING MOUNTED SPEAKER
	SMART BOARD OUTLET - SB DENOTES HEIGHT OF OUTLET PER OWNER		FIRE ALARM WALL MOUNTED SPEAKER/STROBE UNIT - DEEP 4" SQUARE BOX WITH SINGLE GANG PLASTER RING WITH CABLE IN 3/4" CONDUIT TO ACCESSIBLE CEILING (MOUNTING HEIGHT AS PER NFPA 72, ALL DEVICES SHALL BE AT THE SAME HEIGHT) XX DENOTES CANDELA RATING
	DUPLEX CONVENIENCE OUTLET (18" A.F.F. OR AS NOTED) TR DENOTES TAMPER RESISTANT - HUBBELL: RR205TR, GFTR20 OR EQUAL.		FIRE ALARM CEILING MOUNTED SPEAKER STROBE - XX DENOTES CANDELA RATING
	COMBINATION RECEPTACLE/OUTLET AND DUAL USB CHARGER - LEVITON T5832 OR EQUAL. (18" A.F.F. OR AS NOTED)	SECURITY SYSTEM DESCRIPTION	
	DOUBLE DUPLEX CONVENIENCE OUTLET (18" A.F.F. OR AS NOTED)		SURVEILLANCE CAMERA - DEEP 4" SQUARE BOX WITH SINGLE GANG PLASTER RING WITH CABLE/PULLSTRING IN 3/4" CONDUIT TO ACCESSIBLE CEILING. VERIFY HEIGHT WITH ENGINEER.
	SPECIAL OUTLET (VERIFY TYPE AND MOUNTING HEIGHT WITH EQUIPMENT MANUFACTURE)		CARD READER - DEEP 4" SQUARE BOX WITH SINGLE GANG PLASTER RING WITH CABLE/PULLSTRING IN 3/4" CONDUIT TO ACCESSIBLE CEILING (48" A.F.F. TO CENTER OF DEVICE OR AS NOTED)
	COUNTER TOP DUPLEX OUTLET (CLEAR BACK SPLASH)		SECURITY SYSTEM MOTION DETECTOR - LONG RANGE - COORDINATE ROUGH-IN REQUIREMENTS WITH SECURITY SYSTEM PROVIDER.
	CEILING MOUNTED OUTLET		SECURITY SYSTEM MOTION DETECTOR - WIDE RANGE - COORDINATE ROUGH-IN REQUIREMENTS WITH SECURITY SYSTEM PROVIDER.
	MOTOR STARTER - PROVIDED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR.		SECURITY SYSTEM KEY PAD - DEEP 4" SQUARE BOX WITH SINGLE GANG PLASTER RING WITH CABLE/PULLSTRING IN 3/4" CONDUIT TO ACCESSIBLE CEILING
	FLOOR BOX, POWER (COORDINATE FINAL LOCATION WITH OWNER/ARCHITECT PRIOR TO INSTALLATION) MINIMUM 2-3/4" CONDUITS TO ACCESSIBLE CEILING.		SECURITY SYSTEM DOOR CONTACT - COORDINATE ROUGH-IN REQUIREMENTS WITH SECURITY SYSTEM PROVIDER.
	FLOOR BOX, COMBINATION POWER/COMMUNICATIONS (COORDINATE FINAL LOCATION WITH OWNER/ARCHITECT PRIOR TO INSTALLATION. 2-1" CONDUITS IN SLAB TO 6" ABOVE ACCESSIBLE CEILING - PROVIDE BLANK PLATE OR XX DENOTES CABLE TYPE AND QUANTITY; P=PHONE, D=DATA, C=COAX REFER TO SPECIFICATIONS		SECURITY SYSTEM HORN - DEEP 4" SQUARE BOX WITH SINGLE GANG PLASTER RING WITH CABLE/PULLSTRING IN 3/4" CONDUIT TO ACCESSIBLE CEILING.
	JUNCTION BOX		DOOR OPERATOR PUSH PAD - DEEP 4" SQUARE BOX WITH SINGLE GANG PLASTER RING WITH CABLE/PULLSTRING IN 3/4" CONDUIT TO ACCESSIBLE CEILING.
	CONTROL POWER FOR ENERGY MANAGEMENT SYSTEM - PROVIDE OUTLET OR JUNCTION BOX AT LOCATION PER EMS CONTRACTOR		DOOR OPERATOR - PROVIDE 120V POWER AND ALL RACEWAY AND CABLE REQUIRED FOR HARDWARE OPERATION. COORDINATE WITH DOOR HARDWARE PROVIDER.
	HAND DRYER - COORDINATE OUTLET/DEVICE TYPE WITH SUPPLIER. COORDINATE LOCATION WITH THE OWNER/ARCHITECT PRIOR TO ROUGH-IN.	NOTES:	
	ELECTRICAL MOTOR (COORDINATE TERMINATION WITH SUPPLIER)	1. ITEMS ON THIS SCHEDULE ARE NOT NECESSARILY SHOWN ON PLANS.	
	FUSED DISCONNECT SWITCH - FUSE AT MANUFACTURE RECOMMENDED RATING UNLESS NOTED OTHERWISE. XX DENOTES DISCONNECT SIZE, Y DENOTES PHASE, ZF/ZZ DENOTES FUSE SIZE.	INTERCOM DESCRIPTION	
	ELECTRICAL PANEL SURFACE MOUNTED		
	ELECTRICAL PANEL FLUSH MOUNTED		
	TELEPHONE/POWER POLE: COORDINATE EXACT MOUNTING LOCATION WITH FURNITURE MANUFACTURE. MAKE FINAL CONNECTIONS. REFER TO DETAIL. WIRE MOLD: 30TP-4V		
	CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING		
	CONDUIT RUN CONCEALED UNDER FLOOR OR BELOW GRADE		
	HOMERUN TO ELECTRIC PANEL BOARD (INDICATED NUMBER OF CIRCUIT BY NUMBER OF ARROWS)		
	THREE (3) CONDUCTORS RUN IN CONDUIT. EVERY CIRCUIT TO HAVE A GROUND, SHARED NEUTRAL IS NOT ALLOWED.		
	FOUR (4) CONDUCTORS RUN IN CONDUIT. EVERY CIRCUIT TO HAVE A GROUND, SHARED NEUTRAL IS NOT ALLOWED.		
	FIVE (5) CONDUCTORS RUN IN CONDUIT. EVERY CIRCUIT TO HAVE A GROUND, SHARED NEUTRAL IS NOT ALLOWED.		
	FOUR (4) CONDUCTORS RUN IN CONDUIT, ONE CONDUCTOR DESIGNATED FOR ISOLATED GROUND		
	MOTORIZED DAMPER - PROVIDE BY OTHERS. ELECTRICALLY POWERED BY ELECTRICAL CONTRACTOR WHEN NOTED.		
	START - STOP STATION - COORDINATE WITH EQUIPMENT PROVIDER.		
	VARIABLE FREQUENCY DRIVE PROVIDED BY MECHANICAL AND INSTALLED BY ELECTRICAL. MAINTAIN CLEARANCES PER NFPA 70		
INTERCOM DESCRIPTION			
	CLOCK, D=DENOTES DOUBLE FACE, S=DENOTES SINGLE FACE - DEEP 4" SQUARE BOX WITH SINGLE GANG PLASTER RING WITH CABLE/PULLSTRING IN 3/4" CONDUIT TO ACCESSIBLE CEILING		
	ADMINISTRATIVE PHONE - PHONE FOR SPACE PER SPECIFICATIONS		
	NON-ADMINISTRATIVE PHONE - PHONE FOR SPACE PER SPECIFICATIONS		
	CLASSROOM PHONE - PROVIDE PHONE FOR SPACE PER SPECIFICATIONS		
	CEILING MOUNTED SPEAKER - PROVIDE SPEAKER BACK BOX AND CABLING		
	INTERCOM CONTROL STATION - DEEP 4" SQUARE BOX WITH SINGLE GANG PLASTER RING WITH CABLE/PULLSTRING IN 3/4" CONDUIT TO ACCESSIBLE CEILING.		
	TRUMPET SPEAKER - DEEP 4" SQUARE BOX WITH SINGLE GANG PLASTER RING WITH CABLE/PULLSTRING IN 3/4" CONDUIT TO ACCESSIBLE CEILING. VERIFY HEIGHT WITH ENGINEER.		

DELIVER

ELECTRICAL GENERAL NOTES

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

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SMITH BUILDING RENOVATION

SPINDLETOP CENTER

655 S. 8TH Street

BEAUMONT, TX 77701

ISSUED FOR SCHEMATIC DESIGN ☐

DESIGN DEVELOPMENT ☐

BIDS & CONSTRUCTION ☒

DATE: 06/13/22

REVISION: DATE: _____

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DRAWINGS SHEET TITLE

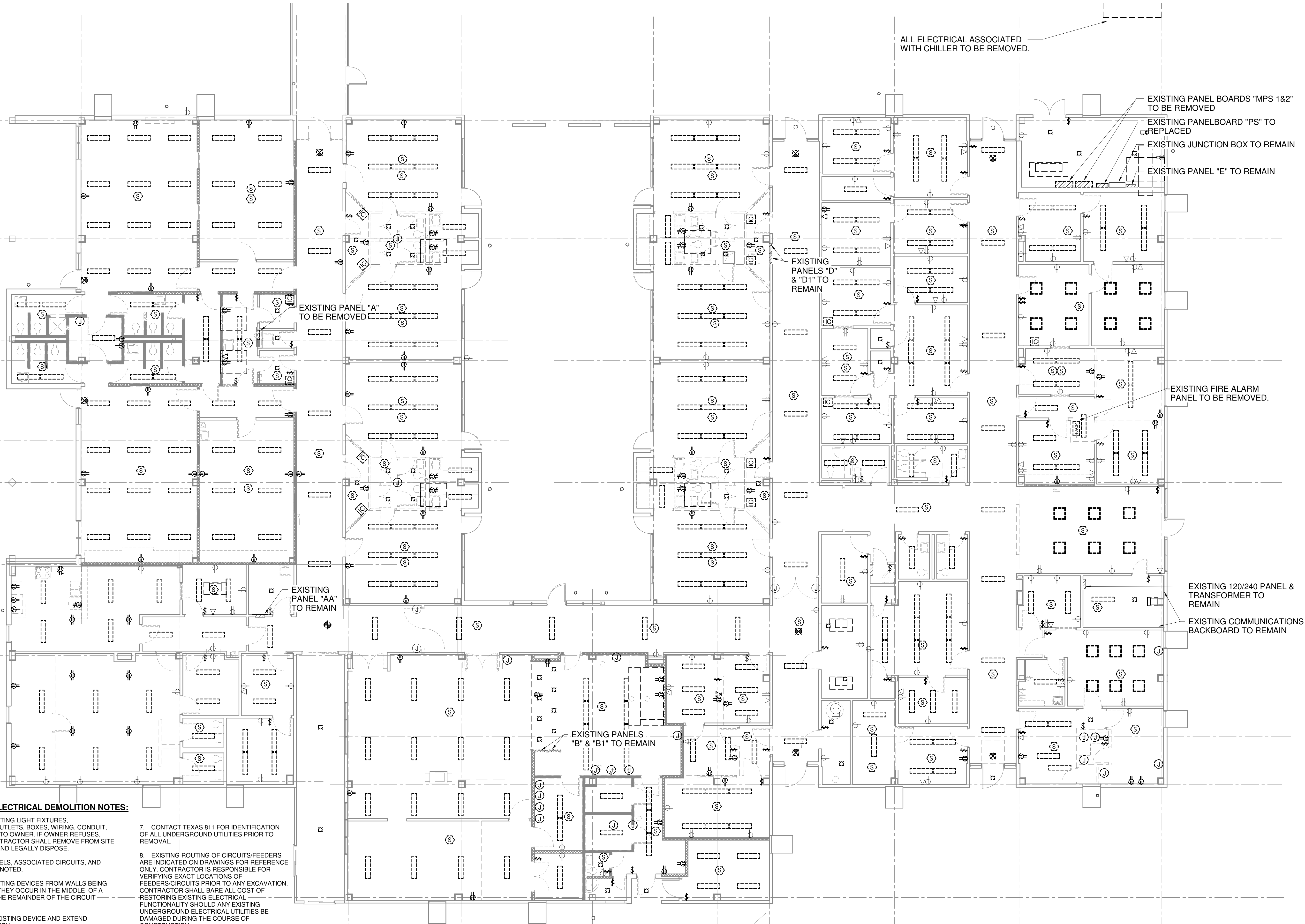
ELECTRICAL LEGEND & NOTES

SHEET NUMBER

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PROJECT NUMBER



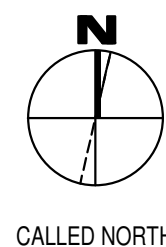
GENERAL ELECTRICAL DEMOLITION NOTES:

1. REMOVE EXISTING LIGHT FIXTURES, DISCONNECTS, OUTLETS, BOXES, WIRING, CONDUIT, ETC. AND OFFER TO OWNER. IF OWNER REFUSES, ELECTRICAL CONTRACTOR SHALL REMOVE FROM SITE AND PROPERLY AND LEGALLY DISPOSE.
2. REMOVE PANELS, ASSOCIATED CIRCUITS, AND FEEDER, WHERE NOTED.
3. REMOVE EXISTING DEVICES FROM WALLS BEING DEMOLISHED. IF THEY OCCUR IN THE MIDDLE OF A CIRCUIT, MAKE THE REMAINDER OF THE CIRCUIT CONTINUOUS.
4. RELOCATE EXISTING DEVICE AND EXTEND EXISTING CIRCUITRY.
5. MAINTAIN ALL REMAINING EXISTING CIRCUITS WHERE INTERRUPTED BY DEMOLITION WORK. PROVIDE WIRING AND CONDUIT TO RESTORE CONTINUOUS CIRCUIT INTEGRITY.
6. PROTECT EXISTING ELECTRICAL EQUIPMENT AND INSTALLATIONS INDICATED TO REMAIN. IF DAMAGED OR DISTURBED IN THE COURSE OF THE WORK, REMOVE DAMAGED PORTIONS AND INSTALL NEW PRODUCTS OF EQUAL CAPACITY, QUALITY, AND FUNCTIONALITY.
7. CONTACT TEXAS 811 FOR IDENTIFICATION OF ALL UNDERGROUND UTILITIES PRIOR TO REMOVAL.
8. EXISTING ROUTING OF CIRCUITS/FEEDERS ARE INDICATED ON DRAWINGS FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT LOCATIONS OF FEEDERS/CIRCUITS PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL BARE ALL COST OF RESTORING EXISTING ELECTRICAL FUNCTIONALITY SHOULD ANY EXISTING UNDERGROUND ELECTRICAL UTILITIES BE DAMAGED DURING THE COURSE OF CONSTRUCTION.
9. REMOVE ALL ELECTRICAL ASSOCIATED WITH MECHANICAL EQUIPMENT BEING REMOVED.
10. EXISTING FIRE ALARM SYSTEM AND ASSOCIATED DEVICES, CABLING ETC. SHALL BE REMOVED.
11. REMOVE ALL LIGHTING CONTROL DEVICES FOR REPLACEMENT. EXISTING DEVICES ARE NOT MOUNTED PER ADA REQUIREMENTS AND BOXES SHALL BE RELOCATED (MAX 48" TO CENTER).

ELECTRICAL DEMOLITION NOTES:

1. REMOVE ALL SURFACE MOUNTED RACEWAY, BOXES, AND DEVICES. RE-INSTALL BEHIND FINISHED SURFACES. CONTRACTOR SHALL REVIEW ON SITE TO VERIFY EXTENT OF WORK.

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



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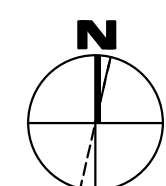


LIGHTING NOTES:

1. HATCHED FIXTURES INDICATE EMERGENCY BATTERY PACK FIXTURES. CIRCUIT BATTERY PACKS AHEAD OF SWITCHES.
2. ALL LIGHTING CONTROL DEVICES SHALL BE MOUNTED AT HEIGHT OF 48" AFF TO CENTER OF DEVICE.

LIGHTING NOTES

- 1 THIS SPACE TO BE CONTROLLED BY CEILING MOUNTED OCCUPANCY SENSOR. PLACEMENT, QUANTITY AND TYPE TO BE DETERMINED BY MANUFACTURE. REFER TO ELECTRICAL SPECIFICATION 26 09 23.
- 2 1/2" CONDUIT WITH 3#12 TO EXISTING LIGHTING CIRCUIT IN THIS AREA.
- 3 1/2" CONDUIT WITH 3#12 TO EXISTING LIGHTING CIRCUIT IN THIS AREA. MAINTAIN SWITCHING.



CALL TO NORTH

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



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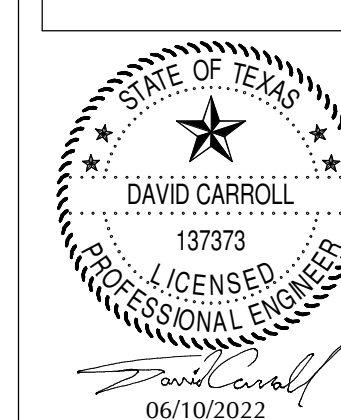
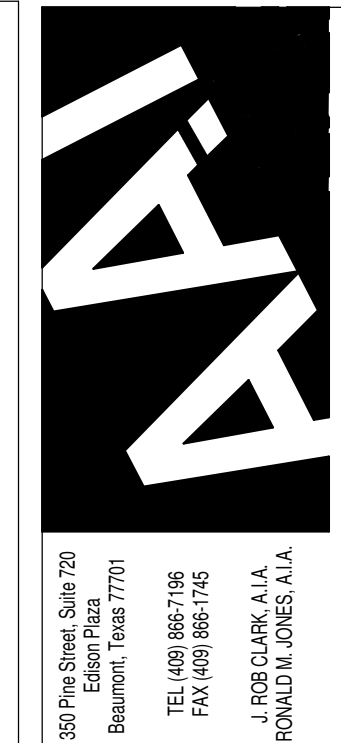
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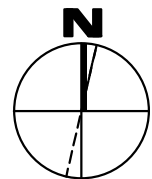
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DRAWINGS SHEET TITLE
LIGHTING PLAN

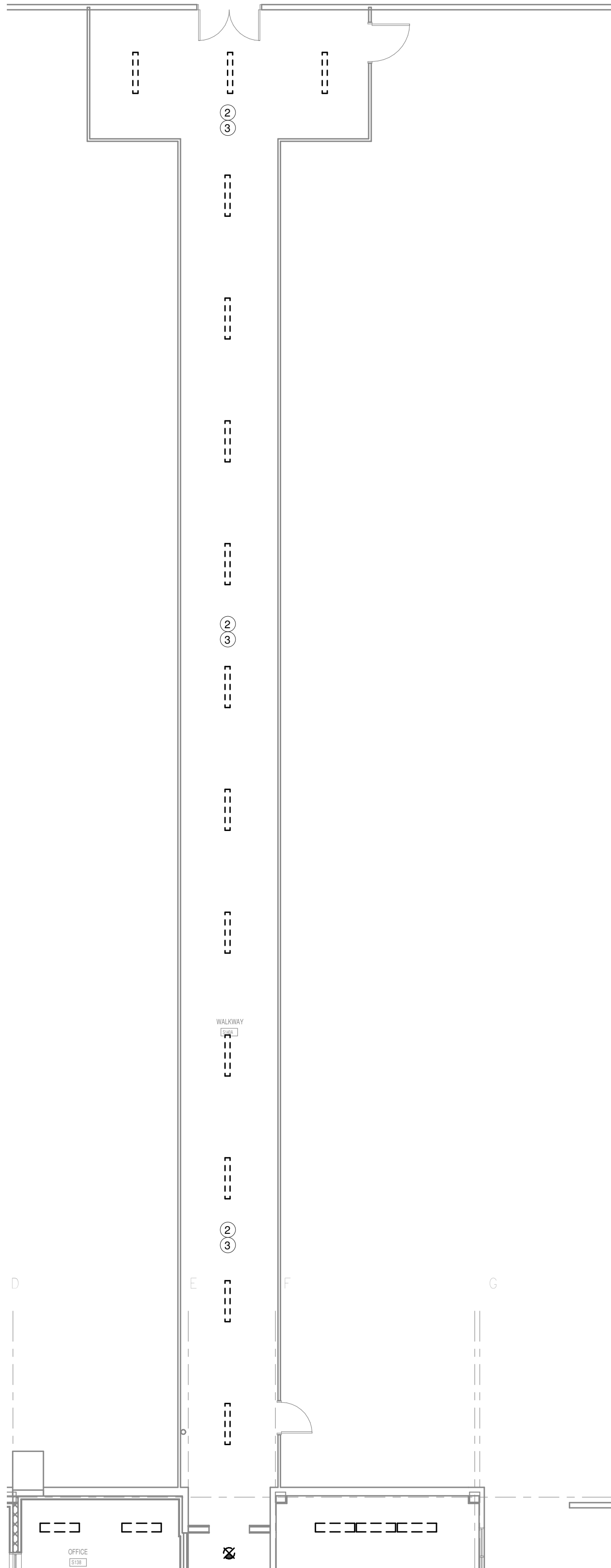
SHEET NUMBER
E200
21032
PROJECT NUMBER



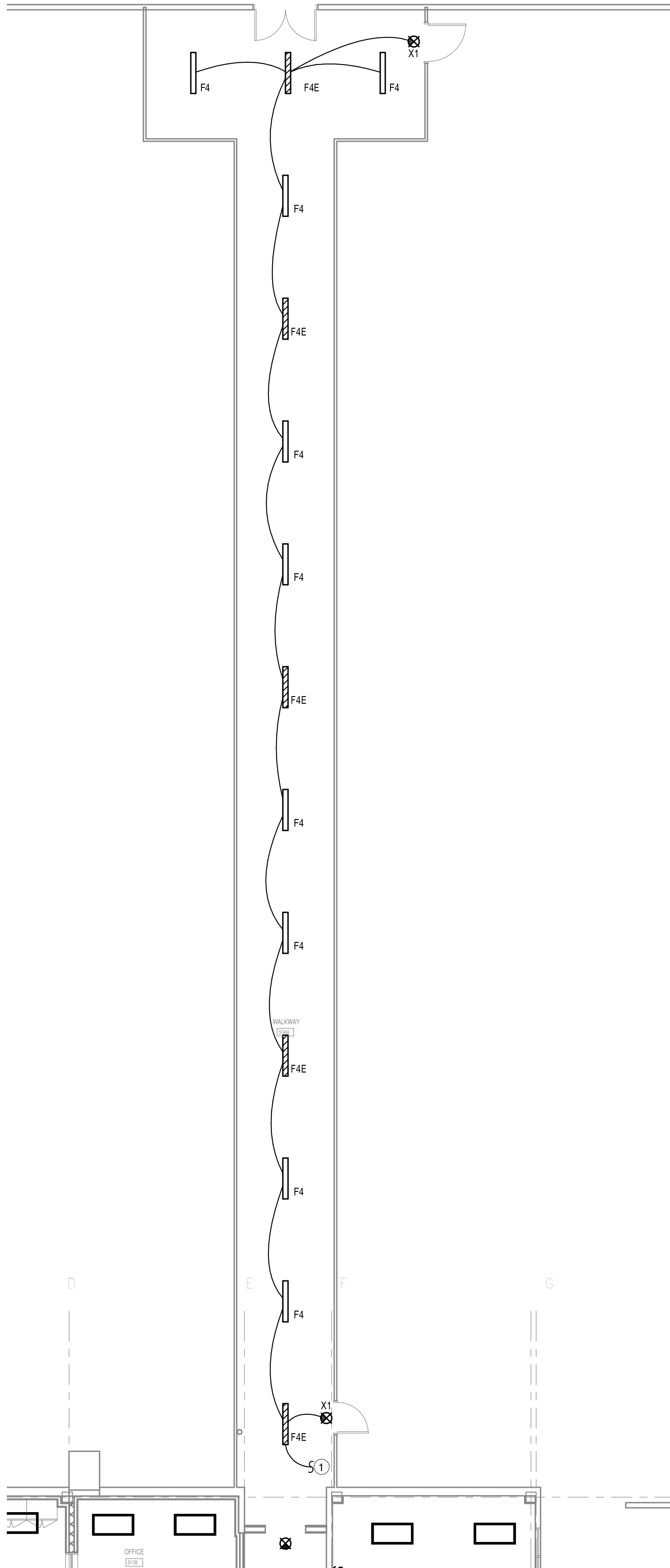


CALLED NORTH

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



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



LIGHTING NOTES

- 1 1/2" CONDUIT WITH 3#12 TO EXISTING LIGHTING CIRCUIT IN THIS AREA. MAINTAIN SWITCHING.
- 2 REMOVE EXISTING LIGHTING AND CONDUITS IN THIS AREA.
- 3 CONTRACTOR SHALL CLEANUP DATA CABLING IN THIS AREA. BY ZIP-TYING AND GROUPING CABLING TOGETHER NEATLY AND SECURING TO ROOF STRUCTURE. VERIFY EXISTING CONDITIONS.

1304 BERTRAND DRIVE SUITE F7
LAFAYETTE, LOUISIANA 70506
(337) 234-7474 * FAX (337) 234-7774
Mechanical Contact: Hogan Guidry
hogan@meconsulting.com
Electrical Contact: David Carroll
david@meconsulting.com
PROJECT No.: 21198.00

ISSUED FOR SCHEMATIC DESIGN ☐
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DESIGN DEVELOPMENT ☐
DATE: _____
BIDS & CONSTRUCTION ☒
DATE: 06/13/22
REVISION: _____
DATE: _____
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DATE: _____
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DATE: _____

DRAWINGS SHEET TITLE
**ELECTRICAL
PLAN -
BREEZEWAY**

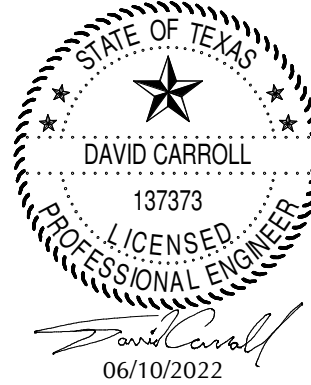
SHEET NUMBER
E201
21032
PROJECT NUMBER

SMITH BUILDING RENOVATION

SPINDLETOP CENTER

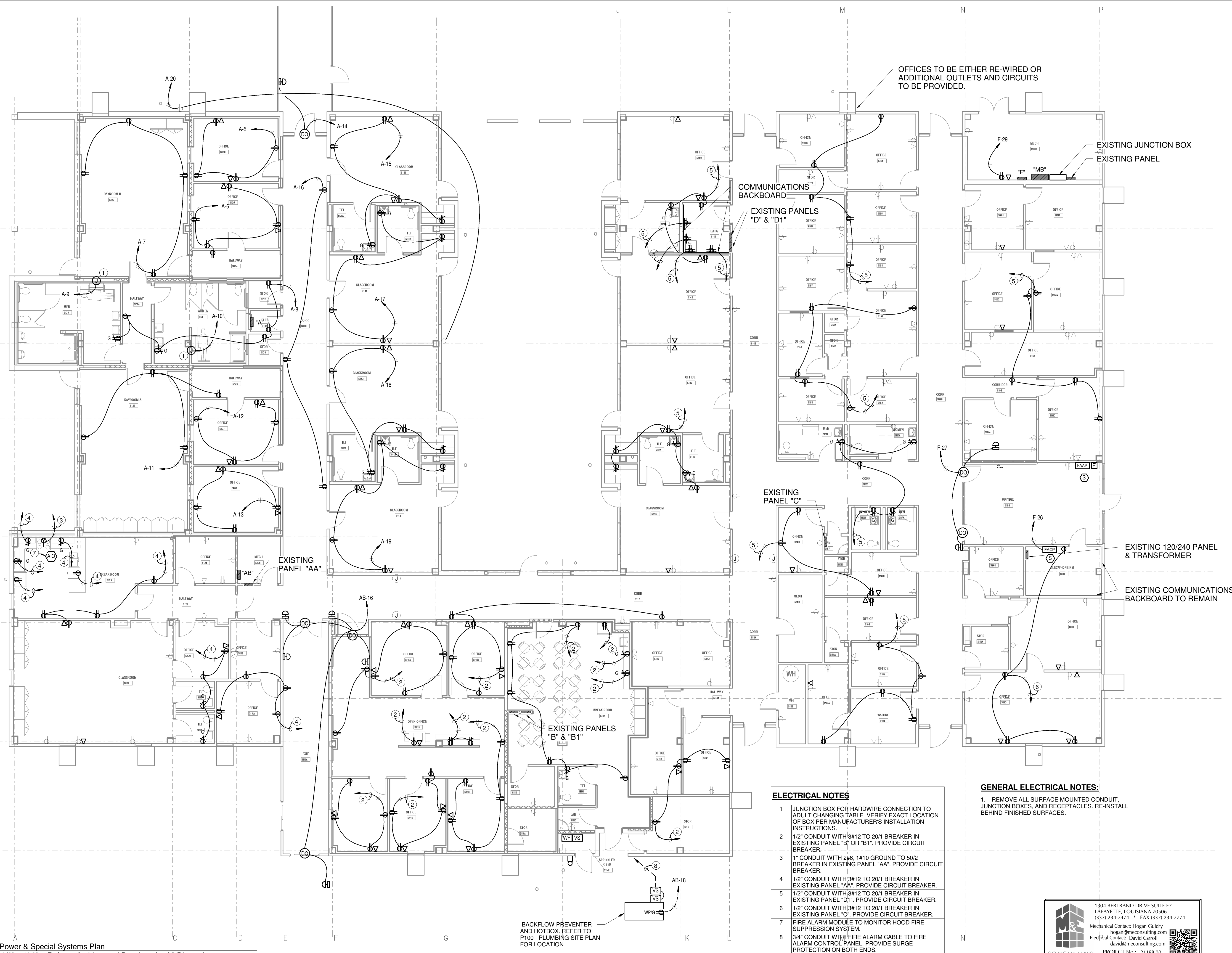
655 S. 8TH Street

BEAUMONT, TX 77701



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

- ELECTRICAL NOTES**
- JUNCTION BOX FOR HARDWARE CONNECTION TO ADULT CHANGING TABLE. VERIFY EXACT LOCATION OF BOX PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - 1/2" CONDUIT WITH 3#12 TO 20/1 BREAKER IN EXISTING PANEL "B" OR "B1". PROVIDE CIRCUIT BREAKER.
 - 1" CONDUIT WITH 2#6, 1#10 GROUND TO 50/2 BREAKER IN EXISTING PANEL "AA". PROVIDE CIRCUIT BREAKER.
 - 1/2" CONDUIT WITH 3#12 TO 20/1 BREAKER IN EXISTING PANEL "AA". PROVIDE CIRCUIT BREAKER.
 - 1/2" CONDUIT WITH 3#12 TO 20/1 BREAKER IN EXISTING PANEL "D1". PROVIDE CIRCUIT BREAKER.
 - 1/2" CONDUIT WITH 3#12 TO 20/1 BREAKER IN EXISTING PANEL "C". PROVIDE CIRCUIT BREAKER.
 - FIRE ALARM MODULE TO MONITOR HOOD FIRE SUPPRESSION SYSTEM.
 - 3/4" CONDUIT WITH FIRE ALARM CABLE TO FIRE ALARM CONTROL PANEL. PROVIDE SURGE PROTECTION ON BOTH ENDS.

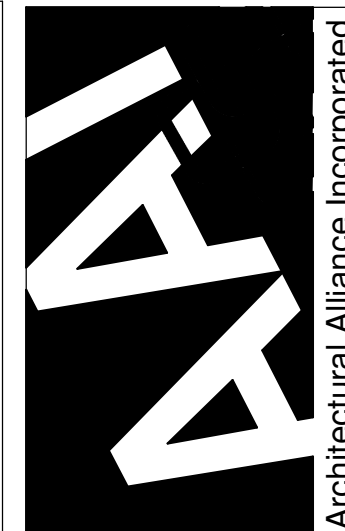
GENERAL ELECTRICAL NOTES:

- REMOVE ALL SURFACE MOUNTED CONDUIT, JUNCTION BOXES, AND RECEPTACLES. RE-INSTALL BEHIND FINISHED SURFACES.

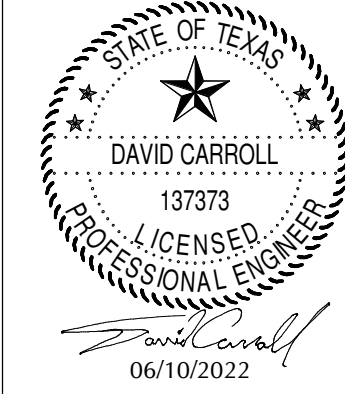


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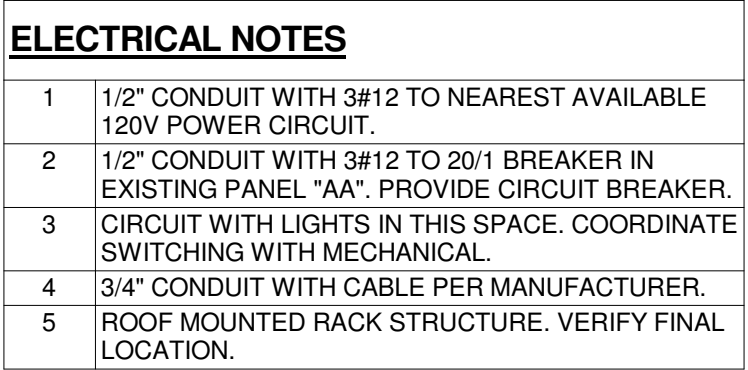


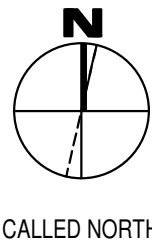
SMITH BUILDING RENOVATION
SPINDLETOP CENTER
655 S. 8TH STREET
BEAUMONT, TX 77701

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DESIGN DEVELOPMENT ☐
DATE: _____
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DATE: 06/13/22
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DRAWINGS SHEET TITLE
POWER & SPECIAL SYSTEMS PLAN

SHEET NUMBER
E300
21032
PROJECT NUMBER





LIGHTING FIXTURE SCHEDULE							
TYPE MARK	DESCRIPTION	LAMP		VOLTS	MANUFACTURER	MODEL	COMMENTS
		No.	TYPE				
A2	2'x4' LED LAY-IN TROFFER	-	LED	120	METALUX	24FP3135C	
A2E	2'x4' LED LAY-IN TROFFER W/ BATTERY BACKUP	-	LED	120	METALUX	24FP3125C-EL14W	
A2S	2'x4' LED SURFACE MOUNT TROFFER	-	LED	120	METALUX	24FP3135C-FPX SURF24	
A2SE	2'x4' LED SURFACE MOUNT TROFFER W/ BATTERY BACKUP	-	LED	120	METALUX	24FP3125C-EL14W-FPX SURF24	
A3	2'x4' LED LAY-IN TROFFER	-	LED	120	METALUX	24FP4735C	
A3E	2'x4' LED LAY-IN TROFFER W/ BATTERY BACKUP	-	LED	120	METALUX	24FP4735C-EL14W	
A5	2'x4' LED LAY-IN TROFFER	-	LED	120	METALUX	24FP6435C	
B2E	2'x2' LED LAY-IN TROFFER W/ BATTERY BACKUP	-	LED	120	METALUX	22FP3235C-EL14W	
C2	2' LED STRIP LIGHT	-	LED	120	METALUX	25NLED-LD5-26SL-LN-UNV-CD1	
C4	4' LED STRIP LIGHT	-	LED	120	METALUX	45NLED-LD5-46SL-LN-UNV-CD1	
F4	LED SURFACE LIGHT	-	LED	120	FAIL-SAFE	HVL8-4-LD4-1-STD-35-UNV-O-EDD-1-FINISH	FINISH TO BE SELECTED BY ARCHITECT.
F4E	LED SURFACE LIGHT W/ BATTERY BACKUP	-	LED	120	FAIL-SAFE	HVL8-4-LD4-1-STD-35-UNV-O-EDD-1-EL14W-FINISH	FINISH TO BE SELECTED BY ARCHITECT.
X1	SINGLE FACE EXIT LIGHT	-	LED	120	SURE-LITES	CX7-1	

"PANEL NAME"
FED FROM
"PANEL NAME & CIRCUIT #"

PANEL BOARD PLAQUE

"EQUIPMENT NAME"
FED FROM
"PANEL NAME & CIRCUIT #"

STAINLESS STEEL SCREWS (TYP.)

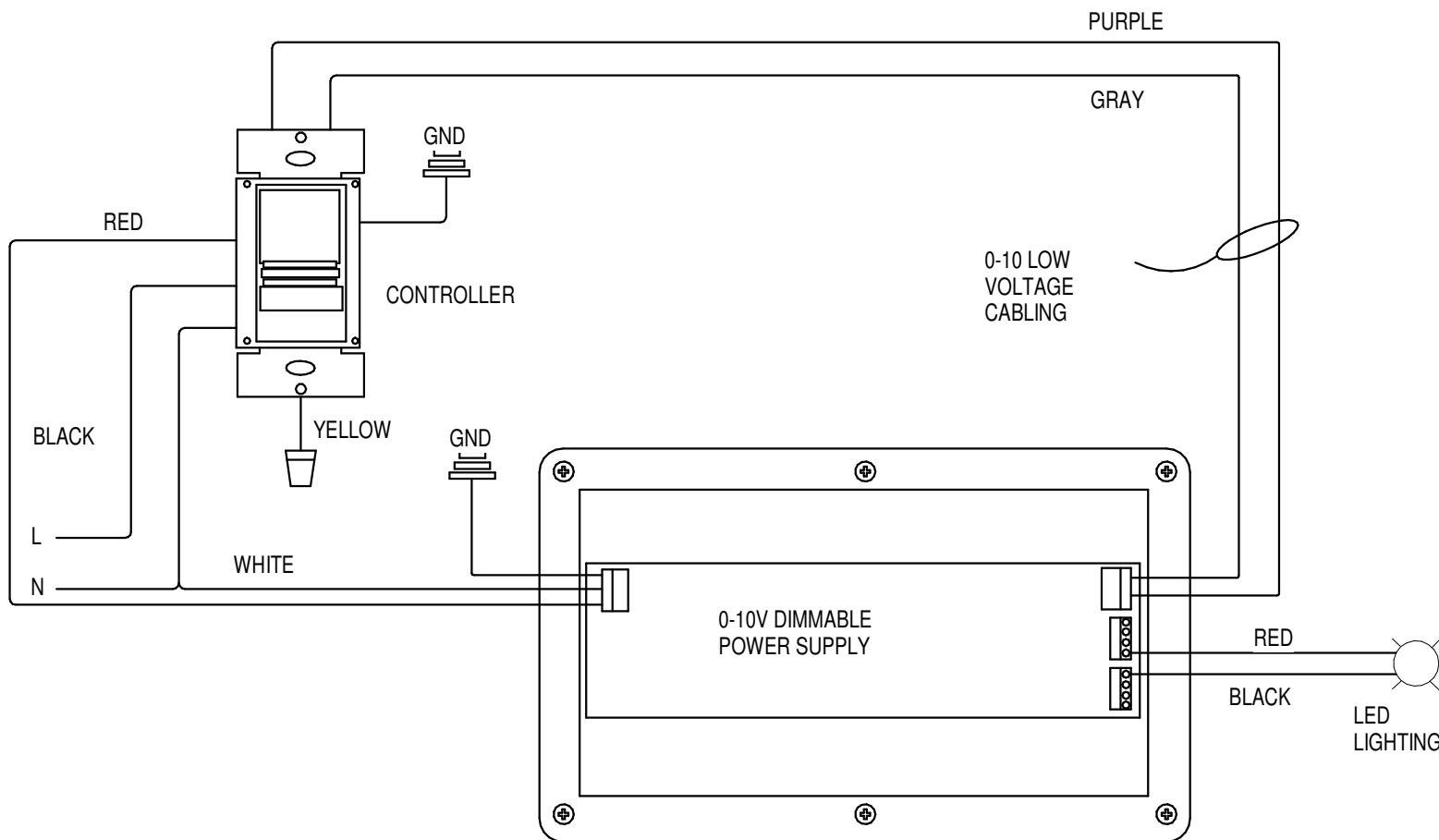
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PANEL & EQUIPMENT SIGNAGE DETAIL

NO SCALE

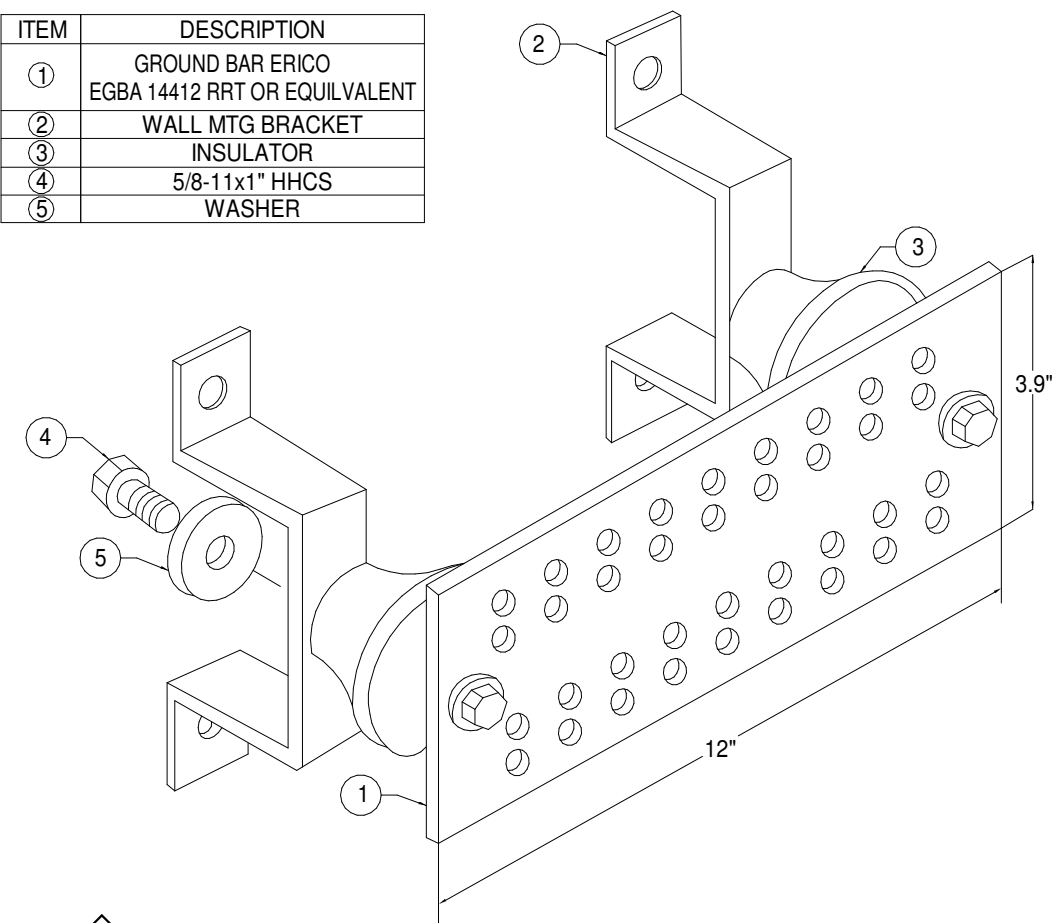
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0-10 VOLT DIMMER DETAIL



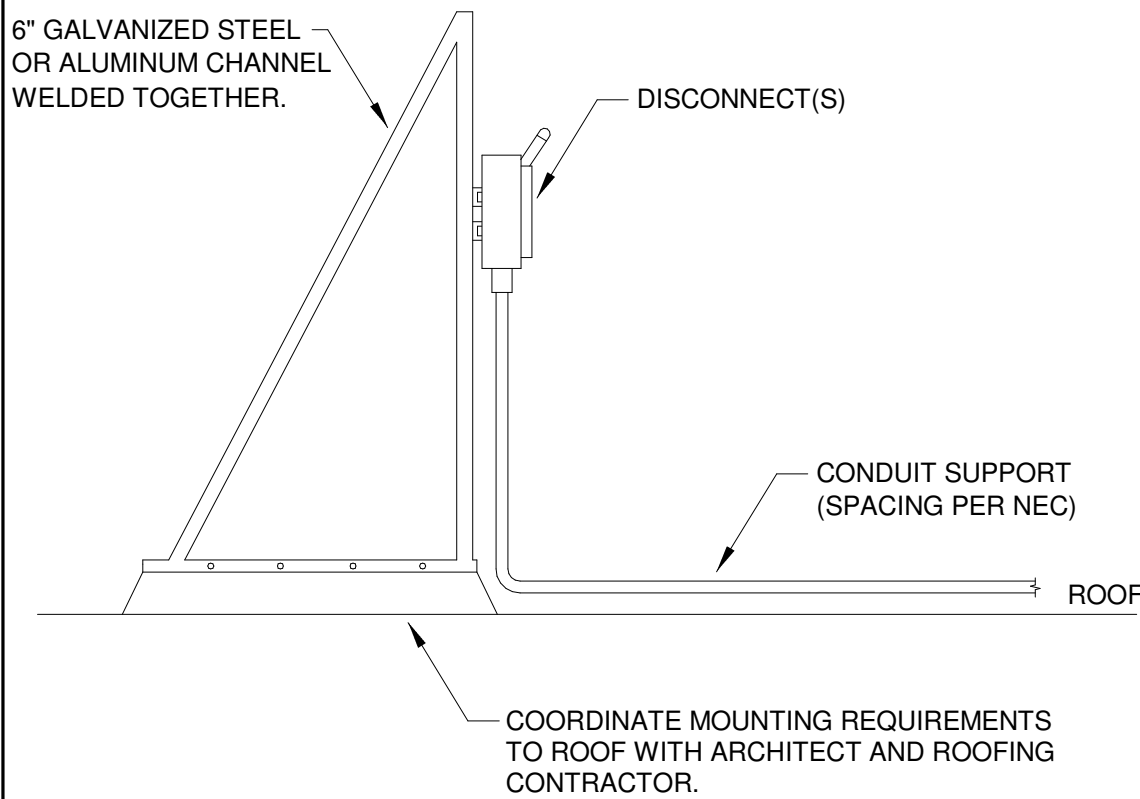
NO SCALE

ITEM	DESCRIPTION
①	GROUND BAR ERICO EG8A 14412 RRT OR EQUIVALENT
②	WALL MTG BRACKET
③	INSULATOR
④	5/8-11x1" HHCS
⑤	WASHER



TYPICAL COMMUNICATIONS
GROUNDING BUSBAR DETAIL

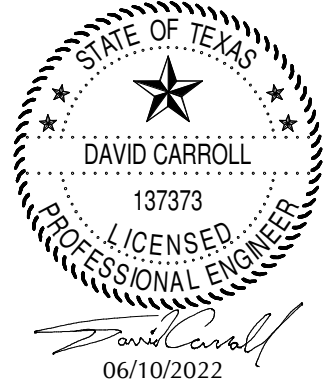
NO SCALE



4

ROOF MOUNTED SUPPORT DETAIL

NO SCALE



SMITH BUILDING RENOVATION

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REVISION:	
DATE:	

DRAWINGS SHEET TITLE
ELECTRICAL
SCHEDULE &
DETAILS

SHEET NUMBER
E500
21032
PROJECT NUMBER

Location: MECH S125	Volts: 120/208 Wye	A.I.C. Rating: 22,000
Mounting: Surface	Phases: 3	Mains Type: MLO
Enclosure: Type 1	Wires: 4	Mains Rating: 150 A

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

Load Classification	Total Load:		13 kVA	12 kVA	12 kVA	Panel Totals
	Total Amps:	108 A	98 A	98 A		
	Connected Load	Demand Factor	Estimated Demand			
HVAC	32696 VA	100.00%	32696 VA			
Heating	3000 VA	100.00%	3000 VA		Total Conn. Load: 37 kVA	
Motor	500 VA	100.00%	500 VA		Total Est. Demand: 37 kVA	
Receptacles	360 VA	100.00%	360 VA		Total Conn.: 101 A	
					Total Est. Demand: 101 A	

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

Location: MECH S160B	Volts: 120/208 Wye	A.I.C. Rating: 22,000
Mounting: Surface	Phases: 3	Mains Type: MLO
Enclosure: Type 1	Wires: 4	Mains Rating: 250 A

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

Load Classification	Total Load:		24 kVA	24 kVA	24 kVA	Panel Totals
	Total Amps:	197 A	202 A	199 A		
	Connected Load	Demand Factor	Estimated Demand			
HVAC	65479 VA	100.00%	65479 VA			
Motor	500 VA	100.00%	500 VA		Total Conn. Load: 72 kVA	
Condensing Units - Split	4660 VA	0.01%	0 VA		Total Est. Demand: 67 kVA	
Receptacles	1040 VA	100.00%	1040 VA		Total Conn.: 199 A	
					Total Est. Demand: 186 A	

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



Location: ELEC S131	Volts: 120/208 Wye	A.I.C. Rating: 22,000
Mounting: Surface	Phases: 3	Mains Type: M.L.O.
Enclosure: Type 1	Wires: 4	Mains Rating: 100 A

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

Load Classification	Total Load:		6 kVA	4 kVA	5 kVA	Panel Totals
	Total Amps:		51 A	34 A	42 A	
	Connected Load	Demand Factor	Estimated Demand			
Motor	500 VA	100.00%	500 VA			
Lighting	3390 VA	125.00%	4238 VA		Total Conn. Load:	15 kVA
Receptacles	11080 VA	95.13%	10540 VA		Total Est. Demand:	15 kVA
					Total Conn.:	41 A
					Total Est. Demand:	42 A

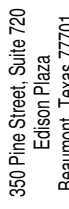
1. VERIFY BREAKER SIZE PER EQUIPMENT MANUFACTURER'S RECOMMENDED NAME PLATE RATING PRIOR TO SHOP DRAWINGS PHASE OF PROJECT.
2. CIRCUIT VIA POLE LIGHTING CONTACTOR. CONTROL WITH (2) CIRCUIT INTERMATIC OR EQUAL ASTRONOMICAL TIME CLOCK WITH BATTERY BACKUP. PHOTOCELL "ON" TIME CLOCK "OFF".
3. RE-FEED EXISTING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

Location: MECH S160B	Volts: 120/208 Wye	A.I.C. Rating: 22,000
Mounting: Surface	Phases: 3	Mains Type: MCB
Enclosure: Type 1	Wires: 4	Mains Rating: 600 A

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

		Total Load:		42 kVA	40 kVA	41 kVA	
		Total Amps:		355 A	334 A	338 A	
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals			
HVAC	8175 VA	100.00%	8175 VA				
Heating	3000 VA	100.00%	3000 VA				Total Conn. Load: 123 kVA
Motor	1500 VA	100.00%	1500 VA				Total Est. Demand: 118 kVA
Lighting	3390 VA	125.00%	4238 VA				Total Conn.: 342 A
Condensing Units - Split	4660 VA	0.01%	0 VA				Total Est. Demand: 327 A
Receptacles	12480 VA	90.06%	11240 VA				

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



SPINDLETOP CENTER

BEAUMONT, TX 77701

655 S. 8TH Street

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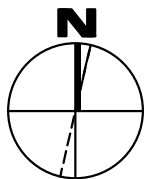
DRAWINGS SHEET TITLE

ELECTRICAL PANEL SCHEDULES

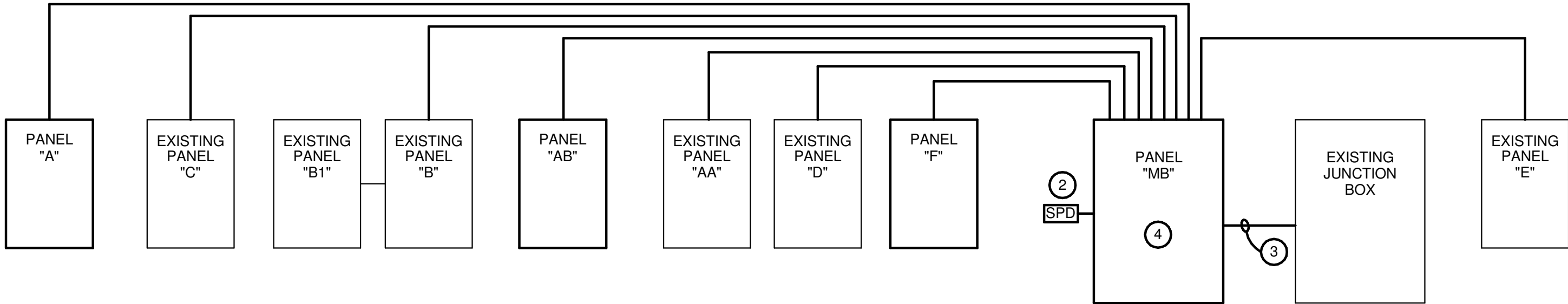
SHEET NUMBER

E600

21032
PROJECT NUMBER



ELECTRICAL RISER
NO SCALE



ELECTRICAL RISER NOTES:

- 1 REFER TO PANEL SCHEDULES FOR FEEDER SIZES, INSTALL PROPERLY SIZED NEUTRALS AND GROUNDING CONDUCTORS WITH ALL FEEDERS.
- 2 SERVICE ENTRANCE TYPE SURGE PROTECTION DEVICE. SEE SPECIFICATIONS.
- 3 (2) 3 1/2" CONDUITS WITH 4#350 KCMIL, 1#1 GROUND EACH.
- 4 RE-FEED EXISTING CIRCUITS AND FEEDERS FROM NEW PANEL. VERIFY EXISTING CONDITIONS.

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DRAWINGS SHEET TITLE
ELECTRICAL RISERS

SHEET NUMBER
E700
21032
PROJECT NUMBER