PLAN LEGEND

- RECEPTACLE, DUPLEX OUTLET NEMA 5-20R, 18" AFF TO CENTER OF DEVICE UON
- RECEPTACLE, SINGLE 208 VOLT AT 18" AFF TO CENTER OF DEVICE UON.
- Y — RECEPTACLE, DUPLEX, "Y" DENOTES MOUNTING HEIGHT AFF TO CENTER OF DEVICE UON.
- C — COUNTER HEIGHT RECEPTACLE. MOUNT 44" AFF TO CENTER OF DEVICE OR 4" ABOVE BACKSPLASH.
- USB — DUPLEX RECEPTACLE W/(2) USB CHARGING PORTS
- FLOORBOX POWER/(2) DROPS - DATA, SPECIAL PURPOSE, REFERENCE RELATED DETAILS.
- J — JUNCTION BOX
- DISCONNECT SWITCH
- MOTOR STARTER OR LIGHTING CONTACTOR, SURFACE MOUNTED
- COMBINATION MOTOR STARTER, AND DISCONNECT SWITCH, SURFACE MOUNTED
- PANELBOARD, SURFACE MOUNTED, 208V, 3ø
- PANELBOARD, SURFACE MOUNTED, 480V, 3ø
- DISTRIBUTION PANELBOARD, SURFACE MOUNTED. 208V, 3ø
- GROUND ROD
- GFCI — GROUND FAULT CIRCUIT INTERRUPTING TYPE RECEPTACLE WITH TEST BUTTON
- Y — KEYED NOTE, NUMBER IN POSITION "Y" MATCHES NOTE NUMBER
- $ — SWITCH, TOGGLE, WALL MOUNTED (SINGLE POLE SINGLE THROW), MOUNT 44" AFF TO BOTTOM OF DEVICE, UON.
- $3 — 3-WAY SWITCH, TOGGLE, WALL MOUNTED (SINGLE POLE SINGLE THROW), MOUNT 44" AFF TO BOTTOM OF DEVICE, UON.
- $M — SWITCH, MOTOR RATED, WITH THERMAL OVERLOADS
- DATA OUTLET, (2) DROPS MOUNTED AT 18" AFF TO CENTER OF DEVICE, UON.
- C — DATA OUTLET (2) DROPS, MOUNTED AT 44" TO CENTER OF DEVICE OR 4" ABOVE BACKSPLASH. REFERENCE ARCHITECTURAL ELEVATIONS.
- TV — TV DATA OUTLET, 88" AFF, UON OR AS SHOWN IN ARCHITECTURAL ELEVATIONS.
- X — MOTOR, HORSEPOWER SHOWN IN POSITION "X"
- WH — WATT-HOUR METER
- WIRING AND CONDUIT RUN, CONCEALED IN CEILING OR WALL. HASH MARKS INDICATE QUANTITY OF CONDUCTORS. NO HASH MARKS INDICATE TWO CONDUCTORS
- SAME AS IMMEDIATELY PRECEDING SYMBOL EXCEPT EXPOSED ON FINISHED SURFACES.
- WIRING AND CONDUIT RUN, UNDER FLOOR. HASH MARKS INDICATE QUANTITY OF CONDUCTORS NO HASH MARKS INDICATE TWO CONDUCTORS.
- W-X,Y,Z — CONDUIT AND/OR WIRING HOMERUN TO PANEL, TERMINAL BOARD, OR CONTROLLER. USED WITH THE FOUR PRECEDING SYMBOLS. DESTINATION EQUIPMENT IDENTIFIER SHOWN IN POSITION "W", CIRCUIT UNDER SHOWN IN POSITIONS "X", "Y", AND "Z".
- CONDUIT AND/OR WIRING WITH GROUNDING CONDUCTOR USED IN CONJUNCTION WITH PRECEDING SYMBOLS.
- E — CIRCUITED TO EMERGENCY POWER PANELBOARD. CIRCUIT SHALL BE DEDICATED PER NEC.

FIRE DETECTION SYMBOLS LEGEND

- COMBINATION FIRE ALARM HORN/ADA STROBE
- ADA APPROVED FIRE ALARM STROBE
- DUCT DETECTOR-PROVIDED BY E.C. AND INSTALLED BY MECHANICAL CONTRACTOR. CONNECTED BY E.C. REFERENCE MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
- FIRE ALARM SYSTEM SMOKE DETECTOR
- FACP — FIRE ALARM SYSTEM CONTROL PANEL
- ANN — FIRE ALARM SYSTEM ANNUNCIATOR
- FLOW SWITCH- PROVIDE 120V POWER
- TAMPER SWITCH- PROVIDE 120V POWER
- MANUAL PULL STATION

SPECIAL SYSTEMS LEGEND

- S PA — INTERCOM SYSTEM SPEAKER
- S SB — AUDIO ENHANCEMENT SYSTEM SPEAKER- LIGHTSPEED DRQ
- SP — SMART PANEL-BY OWNER. E.C. TO PROVIDE ALL CABLING
- LSA — CLASSROOM AUDIO ENHANCEMENT SYSTEM- LIGHTSPEED 955
- C/C1 — SINGLE FACED WIRELESS SYNCHRONIZED CLOCK.
- C2 — DUAL FACE WIRELESS SYNCHRONIZED CLOCK.
- DC — DOOR CONTACT
- MD — ACCESS CONTROL/VIDEO SURVEILLANCE MOTION DETECTOR
- CAM1 — INTERIOR VIDEO SURVEILLANCE CAMERA-REFERENCE SPECS
- CAM2 — EXTERIOR VIDEO SURVEILLANCE CAMERA-REFERENCE SPECS
- FUTURE — FUTURE VIDEO SURVEILLANCE CAMERA-PROVIDED CAT6 DROP
- OS — OCCUPANCY SENSOR
- ICM — INTERCOM MASTER STATION
- AV — AUDIO RACK LOCATION
- TLCS — THEATRICAL LIGHTING CONTROL SYSTEM
- WAP — WIRELESS ACCESS POINT - PROVIDE CAT6 DROP ONLY
- WP1/WP2 — A/V SYSTEM WALL PLATE "WP1" LOCATION WITH 1.5" KNOCKOUT REFERENCE DETAIL ON SHEET E601.
- FBC1 — COMMONS FLOOR BOX "FBC1"- REF: SHEET E602
- FBG1 — GYM FLOOR BOX "FBG1"- REF: SHEET E602
- MIC — MICROPHONE WALL PLATE TYPE "MIC"- REF: SHEET E601 AND E602
- T — T-STAT. COORDINATE LOCATION W/ DIV. 23 AND PROVIDE BOX AND STUB-UP.
- CR — ACCESS CONTROL CARD READER-REFERENCE SPECS
- LS — EXTERIOR LOUD SPEAKER (PLAYGROUND)
- TC — TIME CLOCK (KRONOS)- PROVIDE CAT6 DROP
- KP — ACCESS CONTROL SYSTEM KEYPAD-REFERENCE SPECS
- CO — CARBON MONOXIDE SENSOR

LIGHTING FIXTURE LEGEND

- X — LED, 2'x4' RECESSED, "X" DENOTES FIXTURE TYPE. REFERENCE SHEET E504 FOR SPECIFICS.
- X — LED RECESSED/PENDANT/BOLLARD LIGHT FIXTURE, "X" DENOTES FIXTURE TYPE. REFERENCE SHEET E504 FOR SPECIFICS.
- X — LED RECESSED LINEAR, "X" DENOTES FIXTURE TYPE/LENGTH. REFERENCE SHEET E504 FOR SPECIFICS.
- X — LED LIGHTING FIXTURE, "X" DENOTES FIXTURE TYPE. REFERENCE SHEET E504 FOR SPECIFICS.
- X — LED RECESSED CHANNEL LIGHTING FIXTURE, "X" DENOTES FIXTURE TYPE. REFERENCE SHEET E504 FOR SPECIFICS.
- LIGHTED EXIT SIGN, SINGLE FACE, RECESSED MOUNT, ARROW DENOTES DIRECTION OF EGRESS, NO ARROW DENOTES NO EGRESS DIRECTION
- LIGHTED EXIT SIGN, SINGLE FACE, RECESSED MOUNT, ARROW DENOTES DIRECTION OF EGRESS, NO ARROW DENOTES NO EGRESS DIRECTION
- LIGHTED EXIT SIGN, DOUBLE FACE, ARROWS DENOTE DIRECTION OF EGRESS.

DEVICE MOUNTING HEIGHTS:

THE FOLLOWING GIVES MOUNTING HEIGHTS AFF TO BOTTOM OF DEVICES:

1.	GENERAL LIGHT SWITCHES:	44"
2.	CLASSROOM LIGHT SWITCHES:	44"
3.	GENERAL RECEPTACLES:	16"
4.	TELEPHONE RECEPTACLES:	16"
5.	INTERCOM CALL BACKS:	44"
6.	FIRE ALARM PULL BOXES:	44"
7.	FIRE ALARM HORNS AND STROBES:	92"

THE FOLLOWING GIVES MOUNTING HEIGHTS AFF TO TOP OF DEVICES:

1.	PANELBOARDS:	78"
2.	SAFETY SWITCHES:	72"
3.	MOTOR STARTERS:	72"
4.	FIRE ALARM ANNUNCIATOR PANEL	48"

EXTERIOR LIGHTING CONTROL SYSTEM:

ALL EXTERIOR LIGHTING SHALL BE CIRCUITED THROUGH LIGHTING CONTACTORS CONNECTED TO AND CONTROLLED BY PHOTOCELL AND A TIME-CLOCK SYSTEMS FOR ENERGY MANAGEMENT. PHOTOCELL SHALL ACTUATE LIGHTING CONTACTORS TO ENERGIZE OUTDOOR LIGHTING AT DUSK OR DURING OTHER LOW LIGHT CONDITIONS. TIME CLOCK SHALL HAVE OVERRIDE OF PHOTOCELL TO TURN OFF OUTDOOR LIGHTING CIRCUITS AT A TIME PROGRAMMED BY THE OWNER. (2) TIME CLOCK/PHOTOCELL SYSTEMS SHALL BE PROVIDED TO ALLOW FOR SEPARATE CONTROL OF PARKING LOT LIGHTING AND BUILDING MOUNTED EXTERIOR LIGHTING. FUNCTIONALITY OF NEW EXTERIOR LIGHTING CONTROL SHALL MATCH CONTROL OF THE OVERALL BUILDING.

FIRE ALARM SYSTEM REQUIREMENTS:

E.C. SHALL PROVIDE AND INSTALL ALL DEVICES, CABLING, AND CONDUITS AS REQUIRED FOR NEW SYSTEM REGARDLESS OF QUANTITIES INDICATED ON PLANS, E.C. SHALL PROVIDE DEVICES IN QUANTITIES AS REQUIRED TO COMPLY WITH ALL APPLICABLE CODES AND REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION. E. C. SHALL SUBMIT FIRE ALARM SYSTEM SHOP DRAWINGS TO THE LOCAL FIRE MARSHAL FOR REVIEW AND APPROVAL PRIOR TO SUBMITTAL FOR A/E APPROVAL. SYSTEM SHALL INCLUDE ANNUNCIATION, MONITORING OF FIRES SUPPRESSION SYSTEMS, CO2 MONITORING, AND LIMITED SMOKE DETECTION AS INDICATED. INCLUDE CARBON MONOXIDE DETECTORS AND MONITORING PER CODE. LOCATE CEILING MOUNTED CO2 MONITORS ADJACENT TO THE FIRST RUN-OFF DIFFUSER FROM EACH RTU. REFER TO MECHANCIAL PLANS FOR ADDITIONAL INFORMATION.

CLOCK SYSTEM REQUIREMENTS:

PROVIDE NEW CLOCK SYSTEM AND INSTALL ALL CONDUITS, CABLING, AND CIRCUITS AS REQUIRED TO PROVIDE A COMPLETE AND WORKING SYSTEM. VERIFY EXACT ELECTRICAL REQUIREMENTS WITH CLOCK MANUFACTURER. E. C. SHALL PROVIDE ADDITIONAL CLOCK CONVERTER AND/OR REPEATERS TO FACILITATE THE ADDITION AS REQUIRED TO INSURE COMPLETE COVERAGE. ALL CLOCKS SHALL BE BATTERY POWERED WITH WIRELESS SYNC. REFERENCE PLAN SHEETS FOR CLOCK LOCATIONS. PROVIDE A WIRELESS RANGE EXTENDER TO BOOST WIRELESS SYSTEM SIGNAL STRENGTH AS REQUIRED. PROVIDE 120V POWER AS REQUIRED.

INTERCOM/BELL SYSTEM REQUIREMENTS:

PROVIDE NEW BUILDING INTERCOM/BELL SYSTEM AND INSTALL ALL CONDUITS, CABLING, AND CIRCUITS AS REQUIRED TO PROVIDE A COMPLETE AND WORKING SYSTEM. VERIFY EXACT ELECTRICAL REQUIREMENTS WITH INTERCOM MANUFACTURER. REFERENCE PLANS SHEETS FOR ALL LOCATIONS. E.C. E.C. SHALL PROVIDE ALL ACCESSORIES, DEVICES, AMPLIFIERS, AND CABLING AS REQUIRED FOR OPERATION OVER OWNER PROVIDED PHONES WITH ALL CALL PAGING CAPABILITY THROUGH INTERCOM SPEAKERS.
PROVIDE 120V POWER AS REQUIRED.

ABBREVIATIONS

A	AMPERES OR TRIP AMPERES
AC	ALTERNATING CURRENT
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AIC	SYMMETRICAL AMPS INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAGE
A/R	AS REQUIRED
BLDG	BUILDING
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CL	CURRENT LIMITING
CO	CONDUIT ONLY
DC	DIRECT CURRENT
DIMM	DIMMER
DS	DISCONNECT SWITCH
EMT	ELECTRICAL METAL TUBING
EWC	ELECTRIC WATER COOLER
FCU	FAN COIL UNIT
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
GRC	RIGID STEEL CONDUIT
HZ	HERTZ KILOVOLTS
KV	KILOVOLTS
KVA	KILOVOLT AMPERES
KWH	KILOWATT HOURS
L-L	LINE TO LINE
L-N	LINE TO NEUTRAL
MFR	MANUFACTURER
MIN	MINIMUM
MTD	MOUNTED
NEUT	NEUTRAL
NIC	NOT IN THIS CONTRACT
N.O.	NORMALLY OPEN
OH	OVERHEAD
P	POLE
PE	PHOTOELECTRIC CELL
PH	PHASE
MTG	MOUNTING
N.C.	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
PNL	PANELBOARD
PVC	POLYVINYL CHLORIDE
REQ'D	REQUIRED
RM	ROOM
SPACE	SPACE(S) ONLY (NO BREAKER OR DEVICE)
SPARE	SPARE BREAKER OR DEVICE
SPECS	CONTRACT SPECIFICATIONS
TLCS	STAGE DIMMING RACK/THEATRICAL LIGHTING CONTROL SYSTEM
TTB	TELEPHONE TERMINAL BOARD
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
V	VOLTS
VA	VOLT AMPERES
W	WATTS
W/	WITH
WP	WEATHERPROOF
ø	PHASE
+	INDICATES HEIGHT OF ITEM

GENERAL NOTES:

APPLICABLE TO ALL ELECTRICAL SHEETS

1. FIRE STOP SHALL BE PROVIDED AT ALL LOCATIONS WHERE ELECTRICAL EQUIPMENT OR SYSTEMS PENETRATE FIRE RATED WALLS. SEE ARCHITECTURAL PLANS FOR RATED WALL LOCATIONS.
2. CONTROL WIRING TO MECHANICAL EQUIPMENT IS NOT SHOWN ON THESE SHEETS.
3. ONE-LINE DIAGRAMS ARE MEANT TO SHOW ONLY ELECTRICAL RELATIONSHIPS AND THEREFORE MAY NOT INCLUDE ALL REQUIRED EQUIPMENT, DEVICES AND ACCESSORIES.
4. FOR ACTUAL LOCATIONS OF CEILING MOUNTED FIXTURES AND EQUIPMENT SEE ARCHITECTURAL REFLECTED CEILING PLANS.
5. ALL ELECTRICAL WORK SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL CODES, PARTICULARLY THE NATIONAL ELECTRICAL CODE (NFPA 70-2017). ALL INSTALLATIONS SHALL COMPLY WITH THE MOST RECENT NEIS STANDARDS PUBLISHED BY THE NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION (NECA).
6. DIVISION 26 CONTRACTOR SHALL COORDINATE REQUIREMENTS OF ALL EQUIPMENT PROVIDED BY OTHER TRADES PRIOR TO ROUGH-IN.
7. SWITCHGEAR, SWITCHBOARDS AND PANEL BOARDS SHALL BE CONSTRUCTED AND ASSEMBLED BY THE SAME MANUFACTURER THAT PRODUCES THE PROTECTIVE DEVICES HOUSED IN THE COMPLETE LINE-UP, HOUSING, OR ENCLOSURE.
8. COORDINATE ALL LIGHT FIXTURE MOUNTING REQUIREMENTS WITH ARCHITECT PRIOR TO RELEASE OF FIXTURES.
9. DO NOT SCALE DRAWINGS. IF EXACT LOCATION OF EQUIPMENT CANNOT BE DETERMINED, CONTACT THE ARCHITECT/ENGINEER FOR DIRECTION.
10. ALL SIZES ARE BASED ON COPPER CONDUCTORS. SIZES SHALL NOT BE LESS THAN INDICATED. BRANCH-CIRCUIT CONDUCTORS SHALL NOT BE SMALLER THAN NO. 12 AWG. FOR BRANCH CIRCUITS OF 120 VOLTS OR MORE. CIRCUITS MORE THAN 100 FEET LONG SHALL NOT BE SMALLER THAN NO. 10 AWG. CIRCUITS MORE THAN 200 FT LONG, FROM PANEL TO DEVICE, SHALL NOT BE SMALLER THAN NO. 8 AWG.
11. ALL LIGHTING CIRCUITS SHALL HAVE A SEPARATE INSULATED GROUNDING CONDUCTOR INSTALLED WITHIN EACH CONDUIT.
12. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL CABLE RUNS IN STRICT COMPLIANCE WITH OWASSO PUBLIC SCHOOLS STANDARDS.
13. ELECTRICAL CONTRACTOR SHALL NOT SHARE NEUTRALS, UNLESS SPECIFICALLY NOTED OTHERWISE.
14. ELECTRICAL RACEWAY SYSTEMS SHALL NOT BE SUPPORTED BY THE CEILING GRID OR ANY PART OF THE CEILING GRID SUPPORT SYSTEM. RACEWAYS SHALL BE INSTALLED CLOSE TO STRUCTURE ABOVE IN A MANNER TO MAXIMIZE WORKING SPACE ABOVE ACCESSIBLE CEILINGS.
15. ALL EXTERIOR LIGHTING SHALL BE CIRCUITED WITH #10 AWG MINIMUM.
16. ALL INTERIOR AND EXTERIOR WALL-MOUNTED DEVICES AND LIGHTS SHALL BE SET PLUMB, LEVEL, AND SQUARE. ALL DEVICE TRIM AND/OR FINISHED COVERS SHALL BE SET SNUG TO WALL SURFACES ON ALL SIDES, AND SEALED CONTINUOUSLY AROUND PERIMETER. ALL EXTERIOR ITEMS SHALL BE NEATLY SEALED AGAINST WATER INFILTRATION.
17. THE MINIMUM SIZE SWITCH, RECEPTACLE, AND OTHER TYPE DEVICE PLATE SHALL BE "JUMBO" SIZE AT ALL MASONRY AND CONCRETE CONDITIONS. ALL OTHER SWITCH RECEPTACLE, PHONE JACK, DATA CABLE, CATV OUTLETS, BLANKS, AND OTHER TYPE DEVICE PLATES THROUGHOUT THE PROJECT SHALL BE STANDARD SIZE WITH STAINLESS STEEL FINISH.
18. NO ELECTRICAL DEVICES IN FIRE-RATED OR OTHER PARTITIONS SHALL BE PLACED BACK-TO-BACK WHERE DEVICES SERVE OPPOSITE SIDES OF THE COMMON PARTITION; DEVICES IN FIRE-RATED PARTITIONS SHALL BE OFFSET A MINIMUM OF 6" FROM ADJACENT EDGES.
19. ALL PANELBOARD DESIGNATION LABELS SHALL BE BLACK (OR RED PER CRITERIA) BAKELITE WITH INTEGRAL WHITE ETCHED-IN CARICATURES OF MINIMUM 3/8" SIZE. ALL PANELBOARD DIRECTORIES SHALL BE NEATLY TYPED AND ORDERLY SHOWING THE CIRCUIT BREAKER LAYOUT IN THE PANELBOARD. ALL "SPARES" SHALL BE LEGIBLY IDENTIFIED AND NEATLY TYPED. ALL CIRCUIT BREAKERS SHALL BE IDENTIFIED WITH THE MANUFACTURER'S STANDARD PRINTED SELF-STICK TAB MARKERS.
20. LOCATE THE ELECTRIC WATER COOLER RECEPTACLES BELOW UNIT, ACCESSIBLE.
21. ALL EQUIPMENT SHALL HAVE CONCRETE PADS WHICH SHALL BE SET LEVEL WITH THEIR TOP ELEVATION NOT LESS THAN 3½" ABOVE SURROUNDING FINISHED FLOOR OR GRADE. ALL CORNERS SHALL HAVE ONE-INCH CHAMFERED EDGES, AND ALL EXPOSED-TO-VIEW SURFACES DRESSED SMOOTH.
22. CONTRACTOR SHALL PROVIDE ADDITIONAL REQUIRED SUSPENDED SUPPORTS TO PREVENT ABOVE CEILING FLEXIBLE CONDUIT FROM CONTACTING THE CEILING GRID, FRAMING FINISH MATERIAL, OR TILES.
23. UNLESS SPECIFICALLY DIMENSIONALLY NOTED OTHERWISE, ALL RECESSED DOWNLIGHTS WITHIN LAY-IN CEILINGS SHALL BE CENTERED WITHIN THE RESPECTIVE CEILING TILES.
24. EACH LAY-IN LIGHT FIXTURE SHALL BE ADDITIONALLY SUPPORTED (IN ADDITION TO THE CEILING GRID CORNER WIRES) WITH NOT LESS THAN TWO (2) GALVANIZED STEEL JACK CHAINS OR RODS OR #10 WIRE, ONE (1) AT EACH OPPOSITE DIAGONAL CORNER OF EACH FIXTURE, SECURED TO THE STRUCTURE ABOVE THE CEILING.
25. ALL VERTICAL CONDUIT AND/OR SUPPORTS PENETRATING THROUGH THE ROOF SHALL BE BRACED TO THE ROOF STRUCTURE HIGH AND LOW TO PREVENT MOVEMENT, WHICH WOULD JEOPARDIZE THE ROOF FLASHING INTEGRITY.
26. ALL CONDUITS PENETRATING THE PLANE OF THE ROOF SHALL HAVE A MINIMUM OF 1" THICK INSULATION ON ALL PORTIONS BETWEEN THE UNDERSIDES OF THE ROOF DECK AND FINISHED CEILING LINE TO REDUCE POTENTIAL CONDENSATE DRIPS.
27. THE USE OF FLEXIBLE METALLIC CONDUIT FOR A "FIXTURE WHIP" FROM A JUNCTION BOX TO EACH LIGHTING FIXTURE SHALL BE RESTRICTED TO 6 FOOT LENGTH PER NEC SECTION 348.30 A. EXCEPTION No. 3.
28. E.C. IS RESPONSIBLE FOR INSTALLATION AND FINAL CONNECTION OF ALL ELECTRICAL CONNECTIONS TO DIV. 23 EQUIPMENT INCLUDING STARTERS, DISCONNECTS AND COMBINATION STARTER/DISCONNECTS PROVIDED BY DIV. 23 CONTRACTOR. COORDINATE EXACT LOCATION OF ALL DEVICES, INCLUDING EXHAUST FAN SWITCH LOCATIONS AND MOUNTING HEIGHTS PRIOR TO ROUGH-IN.
29. ALL 90's IN UNDERGROUND PRIMARY OR SECONDARY FEEDER CONDUITS SHALL BE PVC COATED GALVANIZED RIGID STEEL LONG-SWEEP TYPE.
30. INTRUSION ALARM SYSTEM DEVICES AND CABLING SHALL BE INCLUDED IN THIS CONTRACT. E. C. SHALL PROVIDE ALL DEVICES, CONDUITS, CABLING, ACCESSORIES AND SOFTWARE AS REQUIRED TO PROVIDE A COMPLETE AND FUNCTIONAL SYSTEM AS DESCRIBED WITHIN THE CONTRACT DOCUMENTS. ALL DEVICES SHALL BE NON-PROPRIETARY.
31. FIRE ALARM SYSTEM DEVICES AND CABLING SHALL BE INCLUDED IN THIS CONTRACT IN THEIR ENTIRETY. E. C. SHALL PROVIDE ALL DEVICES, CONDUITS, CABLING, AND ACCESSORIES AS REQUIRED TO PROVIDE A COMPLETE AND WORKING SYSTEM. REGARDLESS OF QUANTITIES INDICATED ON PLAN SHEET, E.C. SHALL PROVIDE ALL DEVICES AS REQUIRED TO COMPLY WITH ALL APPLICABLE CODES AS WELL AS REQUIREMENTS OF LOCAL AUTHORITIES HAVING JURISDICTION.
32. ALL RACEWAY SYSTEMS SHALL BE INSTALLED AS CLOSE TO STRUCTURE ABOVE AS POSSIBLE TO MAXIMIZE WORKING CLEARANCE ABOVE SUSPENDED CEILINGS. INSTALL ALL RUNS PARALLEL OR PERPENDICULAR TO BUILDING CONSTRUCTION.
33. COORDINATE EXACT MOUNTING HEIGHT OF ALL EXTERIOR WALL-MOUNTED LIGHTING FIXTURES WITH ARCHITECT PRIOR TO ROUGH-IN.
34. PROVIDE A 2.0" SLEEVE INTO CORRIDOR OR GROUP AREAS ABOVE ACCESSIBLE CEILING AT EVERY ROOM WITH CMU OR MASONRY WALLS FOR DATA ACCESS.
35. COORDINATE EXACT LOCATION AND MOUNTING REQUIREMENTS OF ALL DEVICES WITH ARCHITECTURAL AND/OR MILLWORK ELEVATIONS. IF EXACT LOCATION CANNOT BE DETERMINED IN FIELD, CONTACT A/E FOR DIRECTION.
36. ALL OUTDOOR AND ROOFTOP RECEPTACLES SHALL BE PROVIDED WITH WEATHERPROOF "IN-USE" COVERS.
37. E.C. SHALL PROVIDE AND INSTALL A 4" x 4" STEEL JUNCTION BOX WITH 3/4" CONDUIT ROUTED ABOVE CEILING FOR ALL THERMOSTAT LOCATIONS. COORDINATE EXACT LOCATIONS WITH DIV. 23 PRIOR TO ROUGH-IN.
38. E.C. SHALL PROVIDE ALL DATA CABLING, CONDUITS, CABLE TRAYS, J-HOOKS, BOXES, PATCH PANELS AND/OR ACCESSORIES AS REQUIRED TO PROVIDE A COMPLETE RACEWAY SYSTEM FOR ALL DATA OUTLETS INDICATED ON PLAN SHEETS. CALCULATE SIZES BASED ON TWO (2) CAT-6E CABLES TO ALL DATA LOCATIONS UNLESS SPECIFICALLY NOTED OTHERWISE ON PLAN SHEETS. COORDINATE ALL REQUIREMENTS WITH OWASSO PUBLIC SCHOOLS PRIOR TO ROUGH-IN.
39. COORDINATE AND INSTALL ALL ELECTRICAL AND SPECIAL SYSTEMS DEVICES IN STRICT COMPLIANCE WITH OWASSO PUBLIC SCHOOLS DESIGN STANDARDS.
40. PROVIDE AND INSTALL A CEILING MOUNTED DUAL-TYPE ULTRASONIC PASSIVE INFRARED OCCUPANCY SENSOR FOR ACTUATION OF ROOM LIGHTING IN THE FOLLOWING ROOMS: GANG BATHROOMS, SINGLE-OCCUPANCY BATHROOMS, AND OFFICES.
41. CONTRACTOR TO PROVIDE AND INSTALL ALL CABLING AND ROUGH-IN FOR ALL WIRELESS ACCESS POINTS. WIRELESS ACCESS POINT DEVICES PROVIDED BY OWNER.
42. CONTRACTOR TO PROVIDE AND INSTALL NYLON PULL STRING IN ALL EMPTY CONDUITS AND TERMINATE WITH PLASTIC BUSHINGS FOR FUTURE USE.

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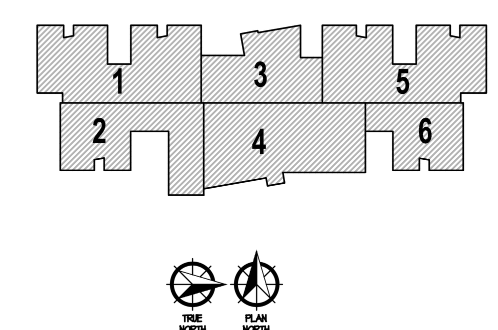
MORROW ELEMENTARY

OWASSO PUBLIC SCHOOLS
OWASSO, OK
2018
PROJECT



KEY PLAN

REVISIONS

03.06.18
ISSUE DATE

1507 PROJECT NO
DWM DRAWN BY
WAM CHK'D BY

ELECTRICAL
LEGEND □
PRO□ECT NOTES

E100
SHEET TITLE

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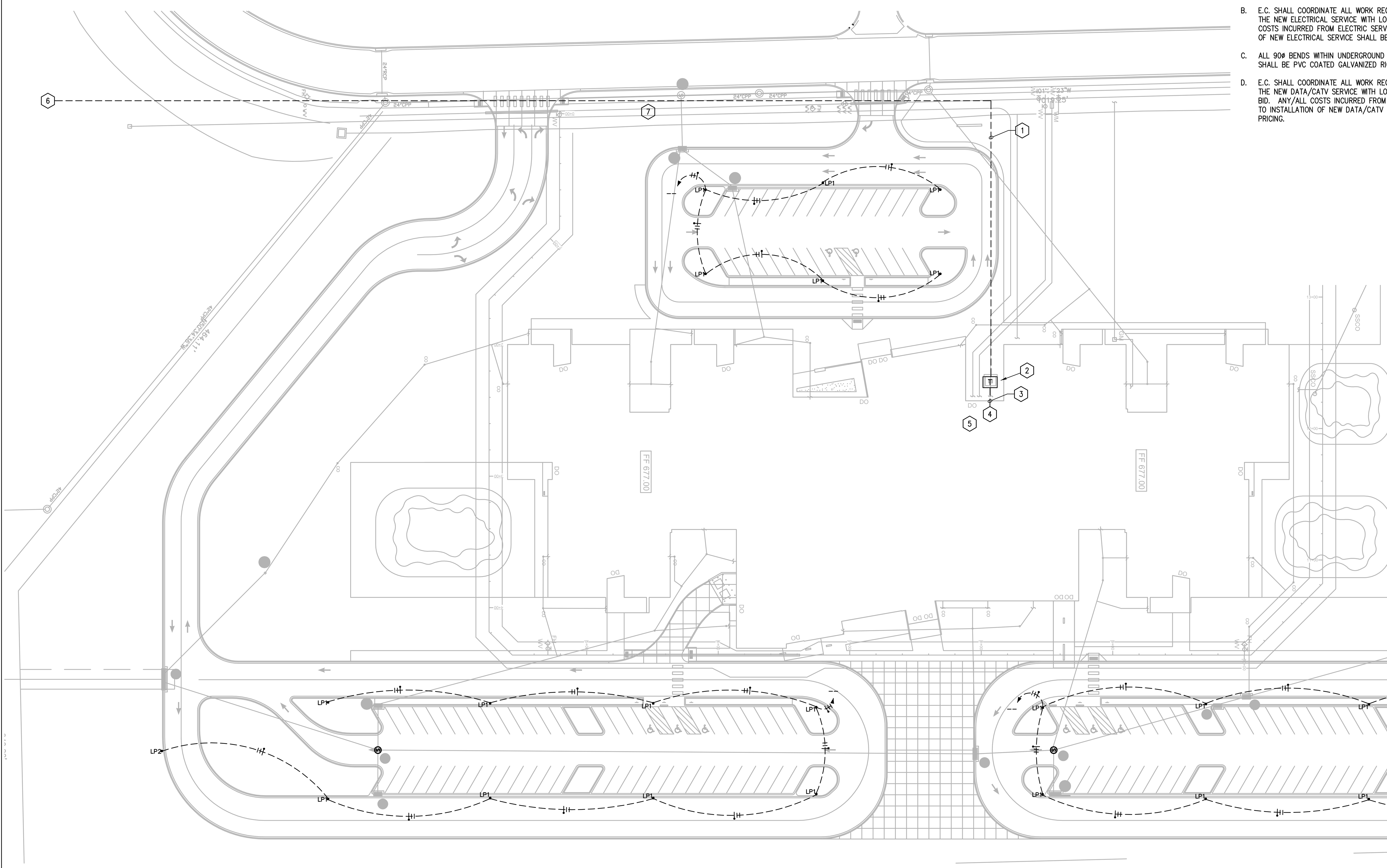


NORTH — TRUE NORTH
NORTH — PLAN NORTH

ELECTRICAL SITE PLAN

SCALE: 1" = 40'-0"

GENERAL ELECTRICAL NOTES:

A. ALL EXTERIOR LIGHTING CIRCUITS SHALL BE CIRCUITED WITH #8 AWG MINIMUM WITHIN 1.0" MINIMUM TRADE SIZE CONDUIT.

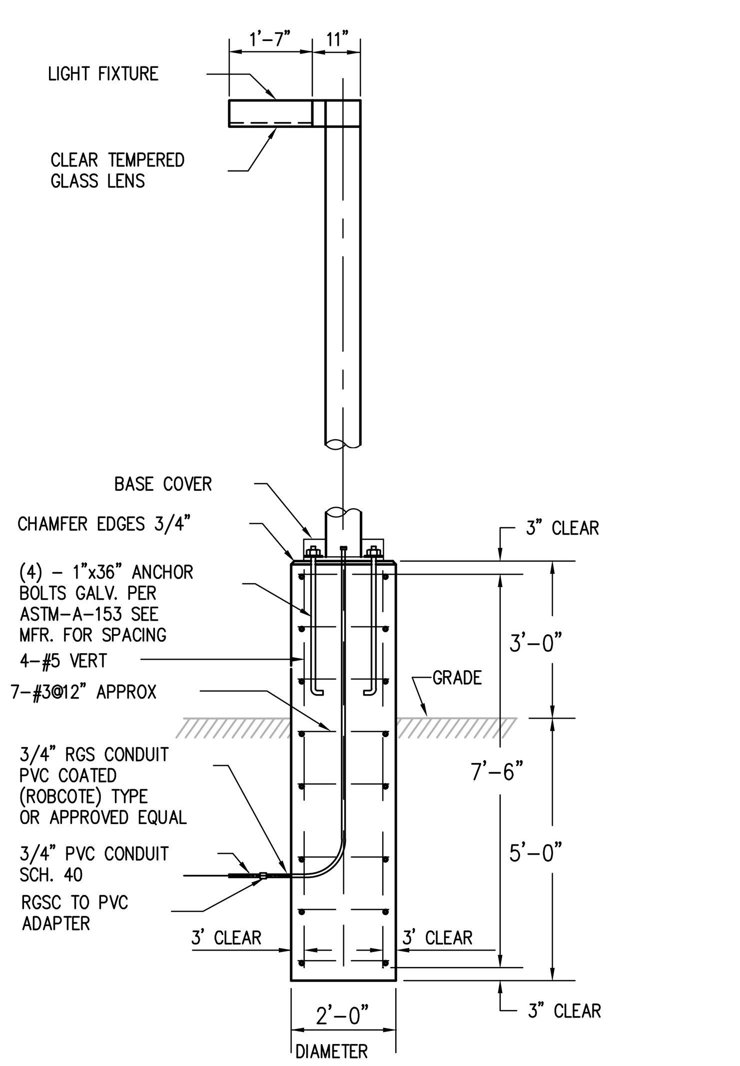
B. E.C. SHALL COORDINATE ALL WORK REQUIRED FOR THE INSTALLATION OF THE NEW ELECTRICAL SERVICE WITH LOCAL UTILITY PRIOR TO BID. ANY/ALL COSTS INCURRED FROM ELECTRIC SERVICE COMPANY RELATED TO INSTALLATION OF NEW ELECTRICAL SERVICE SHALL BE INCLUDED IN BID PRICING.

C. ALL 90ø BENDS WITHIN UNDERGROUND PRIMARY OR SECONDARY CONDUITS SHALL BE PVC COATED GALVANIZED RIGID LONG-SWEEP TYPE.

D. E.C. SHALL COORDINATE ALL WORK REQUIRED FOR THE INSTALLATION OF THE NEW DATA/CATV SERVICE WITH LOCAL SERVICE PROVIDERS PRIOR TO BID. ANY/ALL COSTS INCURRED FROM LOCAL SERVICE PROVIDERS RELATED TO INSTALLATION OF NEW DATA/CATV SERVICES SHALL BE INCLUDED IN BID PRICING.

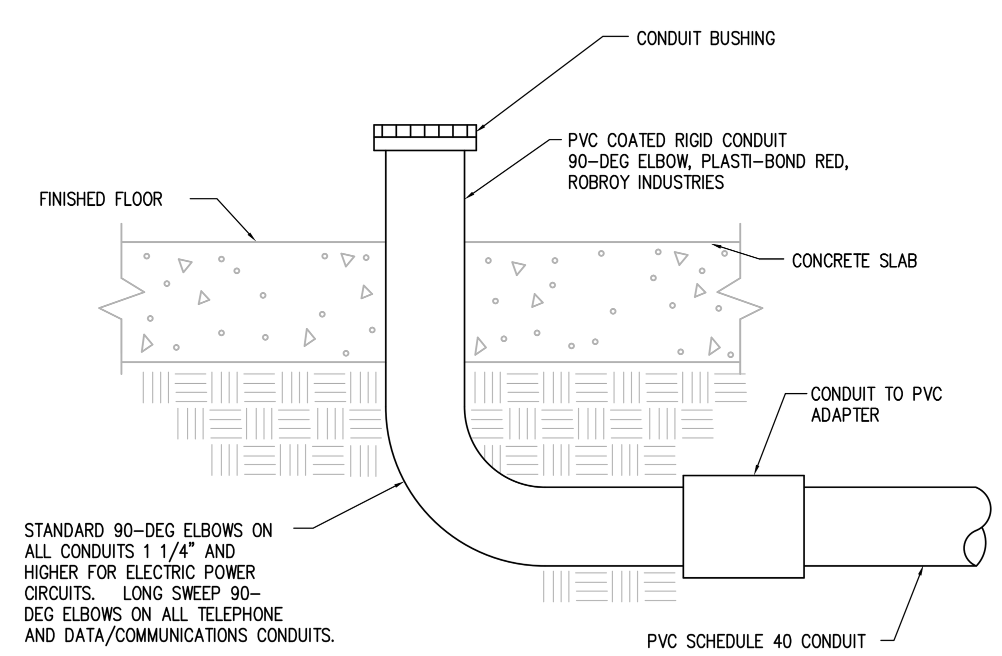
SPECIFIC ELECTRICAL NOTES (⬡):

1. APPROXIMATE LOCATION OF NEW UNDERGROUND ELECTRICAL PRIMARY. E.C. SHALL PROVIDE TRENCHING, CONDUIT, AND BACKFILL PER SPECIFIC UTILITY REQUIREMENTS. COORDINATE EXACT LOCATION AND REQUIREMENTS PRIOR TO BID.
2. APPROXIMATE LOCATION OF NEW 480Y/277V 3ø,4-W SERVICE ENTRANCE TRANSFORMER BY UTILITY. E.C. SHALL PROVIDE CONCRETE PAD PER SPECIFIC UTILITY STANDARDS, METER BASE, AND UNISTRUT RACK FOR METER BASE MOUNTING. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH PROVIDER PRIOR TO BID.
3. APPROXIMATE LOCATION OF NEW 480Y/277V 3ø,4-W UNDERGROUND ELECTRICAL SECONDARY BY E.C. COORDINATE EXACT LOCATION AND REQUIREMENTS PRIOR TO ROUGH-IN.
4. APPROXIMATE LOCATION OF MAIN ELECTRICAL ROOM AND NEW MAIN ELECTRICAL SERVICE PANEL "MDP".
5. APPROXIMATE LOCATION OF I.T. ROOM. ROUTE (2) 4.0" CONDUITS UNDER SLAB AND STUB-OUT 5'-0" FROM BUILDING FOR NEW DATA/COMM AND CATV SERVICES. COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH LOCAL SERVICE PROVIDER(S) PRIOR TO ROUGH-IN. ANY/ALL COSTS INCURRED FROM LOCAL SERVICE PROVIDERS FOR EXTENSION OF SERVICES TO NEW BUILDING SHALL BE INCLUDED WITHIN BID PRICING.
6. APPROXIMATE LOCATION OF CONNECTION BOX FOR NEW ELECTRIC SERVICE. ANY/ALL COSTS INCURRED FROM LOCAL SERVICE PROVIDER FOR EXTENSION OF SERVICES TO NEW BUILDING SHALL BE INCLUDED WITHIN BID PRICING.
7. ROUTE (2) 1" CONDUITS FOR FUTURE MARQUEE SIGN. COORDINATE EXACT LOCATION AND STUB INTO LOCATION DETERMINED BY OWNER FOR DATA. ROUTE DATA CONDUIT TO MAIN IT ROOM INDICATED BY NOTE 5.



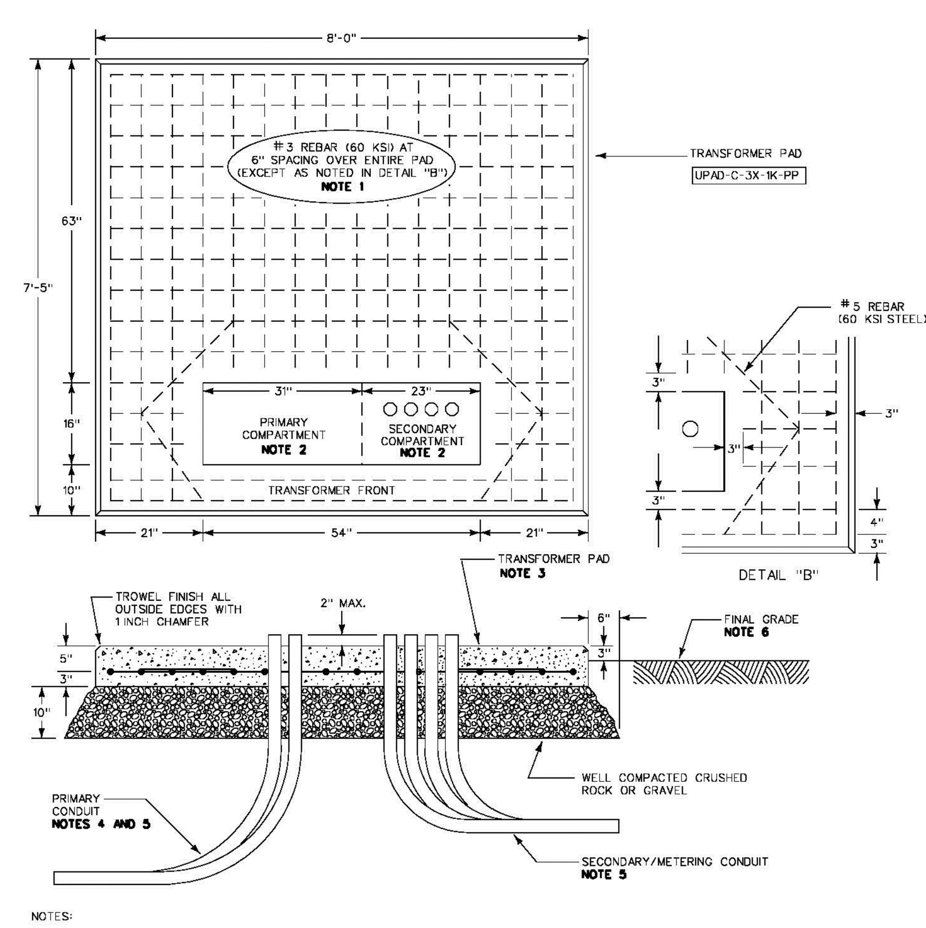
D PARKING LOT LIGHT FIXTURE DETAIL

NO SCALE



C CONDUIT STUB-UP DETAIL ELEC/COMM ROOM

NO SCALE



NOTES:

1. PROVIDE 3,500 PSI CONCRETE WITH A MINIMUM 3 INCH COVER OVER ALL REBAR. WIRE MESH WITH A MINIMUM CROSS SECTIONAL AREA OF 0.176 SQUARE INCHES PER FOOT OF PAD WIDTH MAY BE USED IN PLACE OF REBAR.
2. THE NUMBER AND PLACEMENT OF CONDUITS TO BE DETERMINED BY ENGINEERING. SECONDARY CONDUIT MAY EXTEND IN ANY DIRECTION AS REQUIRED BY THE CUSTOMER.
3. FOR TRANSFORMER PAD AND GUARD POST LOCATIONS REFER TO D.S. 2050.
4. PRIMARY CONDUIT NUMBER, SIZE, LOCATION AND DIRECTION TO BE SPECIFIED BY ENGINEERING. CONDUIT CAN BE FLEXIBLE, TYPE EB OR DB PVC CONDUIT WITH 90°, 36 INCH RADIUS BENDS.TO AVOID DISTURBING THE GROUND UNDER THE REAR OF THE PADAND TO MINIMIZE SETTLING, BRING CONDUITS TO THE FRONT OR SIDES WHENEVER POSSIBLE AND MARK THE CONDUIT END LOCATIONS.
5. BURIAL DEPTH IS DEFINED AS THE DISTANCE BETWEEN FINAL GRADE AND THE TOP OF THE BURIED CABLE OR CONDUIT. PRIMARY CABLES SHALL BE INSTALLED AT A BURIAL DEPTH OF NOT LESS THAN 3'-0" AND SECONDARY CABLES SHALL BE INSTALLED AT A BURIAL DEPTH OF NOT LESS THAN 2'-6". IT IS RECOMMENDED THAT PRIMARY CABLES AND SECONDARY CABLES MAINTAIN BURIAL DEPTHS OF 2'-6" AND 2'-0" RESPECTIVELY; THE INITIAL 3'-0" AND 2'-6" BURIAL DEPTHS ARE TO ALLOW FOR CHANGES IN SURFACE CONDITIONS.
6. FINAL GRADE SHALL BE ESTABLISHED BEFORE INSTALLATION OF PAD.

CONCRETE PAD FOR THREE PHASE PAD-MOUNT TRANSFORMERS
112.5 kVA - 1000 kVA, 120/208 VOLT
112.5 kVA - 750 kVA, 277/480 VOLT
25 kV AND BELOW

DETAIL "B" NOTES:

1. THE FOUNDATION WILL BE LOCATED SO THAT THE TRANSFORMER WILL ALWAYS BE ACCESSIBLE FOR INSTALLATION, REPLACEMENT, OR REMOVAL FROM A WINCH TRUCK WITH ITS BOOM UP.
2. IF INSTALLED IN A PARKING AREA, DECORATIVE WALLS OR BARRIERS WILL BE PERMANENTLY INSTALLED SO AS TO PREVENT VEHICLES BUMPING INTO THE TRANSFORMER.
3. THE MINIMUM WORKING CLEARANCE FROM WALLS OR OTHER OBSTRUCTIONS TO THE PAD WILL BE 5'-0"; CUTOUT SIDE CAN BE ON ANY SIDE PROVIDED WITH A 10'-0" MINIMUM WORKING CLEARANCE.
4. THE FOUNDATION MUST NOT BE LOCATED CLOSER THAN SIX FEET TO DOORS, WINDOWS, OR STRUCTURES OF COMBUSTIBLE MATERIALS.
5. WHERE NOISE FROM THE TRANSFORMER MAY BE A PROBLEM, CAREFUL CONSIDERATION SHOULD BE TAKEN WHEN SELECTING THE SITE FOR THE FOUNDATION.
6. THE FOUNDATION SHOULD BE ORIENTED SO THAT THE PRIMARY AND SECONDARY CONDUITS DO NOT CROSS OR CONFLICT UNDER THE FOUNDATION.
7. SECONDARY CONDUITS WILL BE CONFINED TO THE CROSSHATCHED AREA SO THEY WILL BE WITHIN THE SECONDARY COMPARTMENT OF THE TRANSFORMER. THE CROSSHATCHED AREA FOR SECONDARY CONDUITS AND THE PRIMARY DUCT WELL AREA SHALL BE BLOCKED OUT WHEN THE PAD IS POURED SO THERE WILL BE NO CONCRETE IN THESE AREAS.
8. THE FOUNDATION WILL BE LOCATED IN AN AREA NOT SUBJECT TO FLOODING, AND ITS SURFACE WILL BE 3" ABOVE FINAL FINISHED GRADE.
9. ALL CONDUITS SHALL EXTEND ABOVE THE TOP OF THE FINISHED FOUNDATION NOT LESS THAN 1", NO MORE THAN 3", AND EACH SECONDARY CONDUIT WILL BE EQUIPPED WITH A GROUNDING BUSHING.
10. A 3/4"x 10'-0" COPPER CLAD GROUND ROD WILL BE DRIVEN IN THE AREA SHOWN FOR PRIMARY CONDUITS. WHEN THE METER SOCKET OR ENCLOSURE IS WITHIN 6'-0" OF THE PADMOUNT TRANSFORMER, A #6 BAR CU. (MINIMUM) GROUND WIRE SHALL BE BONDED TO THE GROUND ROD AND INSTALLED ALONG THE METER CONDUIT.
11. WHERE NECESSARY FOR METERING SECONDARY WITH CURRENT TRANSFORMERS, A 1" GALVANIZED CONDUIT WILL EXTEND INTO THE SECONDARY CONDUIT AREA FROM THE METER CABINET.
12. WHEN SECONDARY CABLE IS PROVIDED BY THE CUSTOMER, A MINIMUM OF 5'-0" OF ALL CONDUCTORS WILL BE LEFT ABOVE THE CONDUIT, FOR CONNECTION TO THE BUSHINGS OF THE TRANSFORMER.
13. THE LOCAL UTILITY SERVICE COMPANY'S SERVICE DEPARTMENT, MARKETING PROJECT ENGINEER, OR ENGINEERING DEPARTMENT SHALL BE CALLED FOR A FIELD CHECK OF LOCATION, ORIENTATION, AND SATISFACTORY ARRANGEMENT OF ALL CONDUITS ENTERING THE PAD BEFORE THE CONCRETE IS POURED.
14. CONCRETE WILL BE 3500# TEST. THE TOP SURFACE OF THE FOUNDATION WILL BE TRUE AND LEVEL, AND ALL CORNERS ABOVE GRADE WILL BE CHAMFERED 3/4".
15. IF TRANSFORMER SERVES MORE THAN ONE ADDRESS, SERVICE CABLES MUST BE LABELED WITH THE OFFICIAL ASSIGNED ADDRESS.
16. FOUNDATION SHOULD NOT BE MOUNTED IN CLOSE PROXIMITY TO ANY HEAT MAKING DEVICE SUCH AS A TRASH BURNER, ETC.
17. ALL REINFORCING STEEL SHALL BE #3 ROUND DEFORMED BARS.

B TRANSFORMER PAD DETAIL THREE PHASE TRANSFORMER

NO SCALE

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2018

PROJECT

KEY PLAN

REVISIONS

03.06.18

ISSUE DATE

ELECTRICAL SITE PLAN

E101

SHEET TITLE

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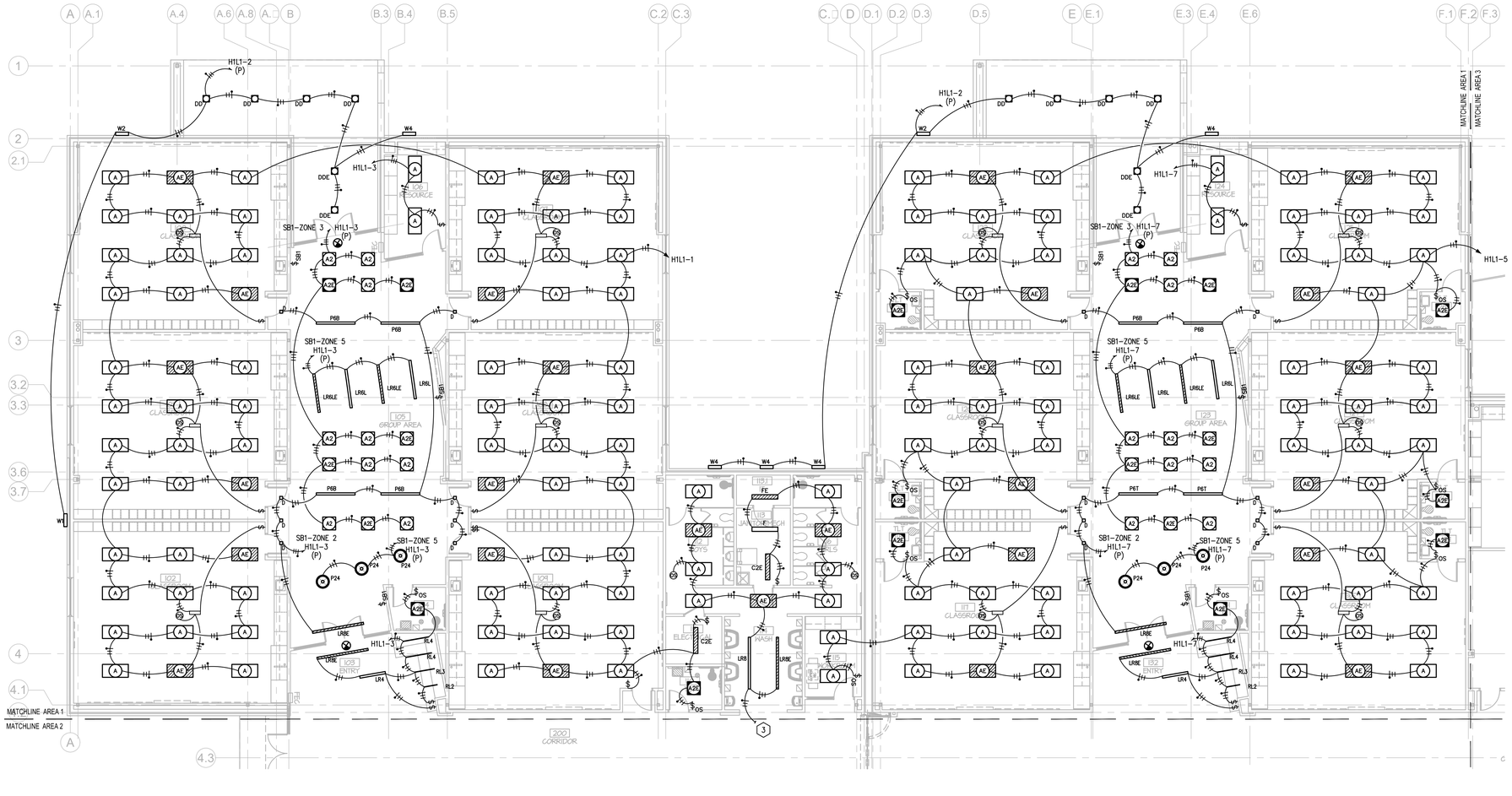


NORTH TRUE NORTH PLAN

LIGHTING FLOOR PLAN – AREA 1

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

GENERAL ELECTRICAL NOTES :

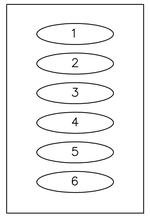
A. ALL EXTERIOR LIGHTING CIRCUITS SHALL BE MINIMUM #10 AWG.

B. COORDINATE EXACT HEIGHT AND LOCATIONS OF EXTERIOR FIXTURES WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.

C. CIRCUIT ALL EXTERIOR LIGHTING THROUGH A PHOTOCELL/TIMECLOCK SYSTEM. COORDINATE DESIRED FUNCTIONALITY AND PROVIDE ALL CIRCUITRY.

SPECIFIC ELECTRICAL NOTES (⬡):

1. PROVIDE AND INSTALL A NXRC-2RD-UNLV 2 ZONE ROOM CONTROLLER WITH 0-10V DIMMING. CIRCUIT TO EACH ZONE WITH LINE VOLTAGE AND (2) 0-10V CONTROL WIRES. CIRCUIT TO DUAL TECH NXOS-OMNIDT2 CEILING SENSOR WITH (1) CAT 6 CABLE. CIRCUIT TO 6 BUTTON NXSW-6 CONTROL STATION WITH (1) CAT 6 CABLE. REFERENCE TYPICAL CONTROL STATION DETAIL ON THIS SHEET. TYPICAL.
2. PROVIDE NXSW-6 CONTROL STATION AT 46" AFF. REFERENCE DETAIL ON THIS SHEET FOR MORE INFORMATION. TYPICAL.
3. CONNECT TO CORRIDOR LIGHTING CIRCUIT. TYPICAL.



1) ALL ON
2) ALL OFF
3) TEACHING WALL 50%, TWO ROWS 100%
4) TEACHING WALL 0%, TWO ROWS 50%
5) UP
6) DOWN

B TYPICAL CONTROL STATION DETAIL

NO SCALE

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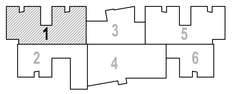
2018

PROJECT



TRUE NORTH PLAN NORTH

KEY PLAN

REVISIONS

03.06.18

ISSUE DATE

1507	PROJECT NO
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JJ	CHK'D BY

LIGHTING FLOOR PLAN - AREA 1

E201

SHEET TITLE

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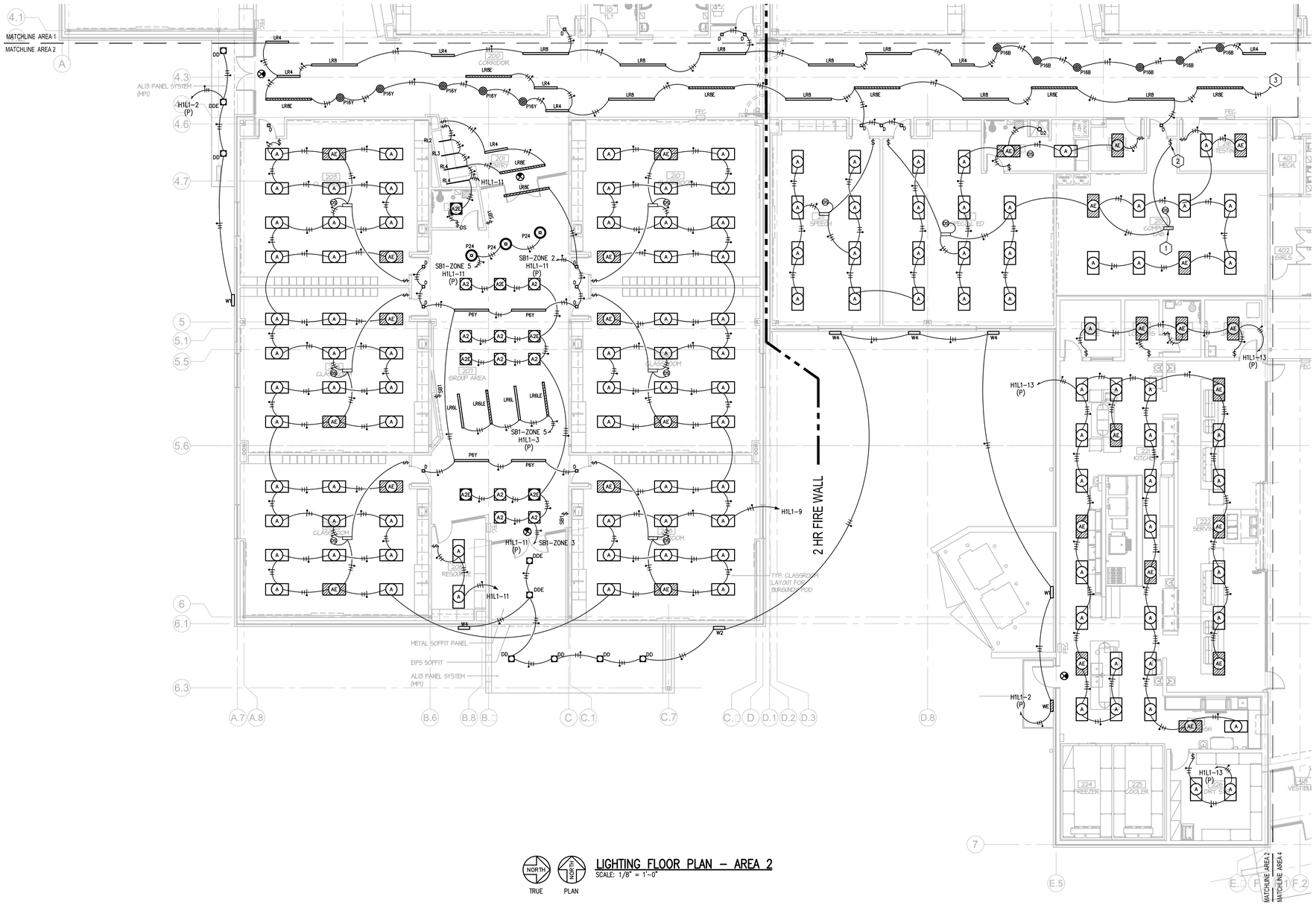


NORTH TRUE NORTH PLAN

LIGHTING FLOOR PLAN – AREA 2

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

GENERAL ELECTRICAL NOTES :

A. ALL EXTERIOR LIGHTING CIRCUITS SHALL BE MINIMUM #10 AWG.

B. COORDINATE EXACT HEIGHT AND LOCATIONS OF EXTERIOR FIXTURES WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.

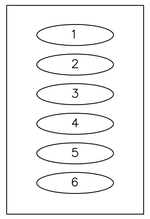
C. CIRCUIT ALL EXTERIOR LIGHTING THROUGH A PHOTOCELL/TIMECLOCK SYSTEM. COORDINATE DESIRED FUNCTIONALITY AND PROVIDE ALL CIRCUITRY.

SPECIFIC ELECTRICAL NOTES (⬡):

1. PROVIDE AND INSTALL A NXRC-2RD-UNLV 2 ZONE ROOM CONTROLLER WITH 0-10V DIMMING. CIRCUIT TO EACH ZONE WITH LINE VOLTAGE AND (2) 0-10V CONTROL WIRES. CIRCUIT TO DUAL TECH NXOS-OMNIDT2 CEILING SENSOR WITH (1) CAT 6 CABLE. CIRCUIT TO 6 BUTTON NXSW-6 CONTROL STATION WITH (1) CAT 6 CABLE. REFERENCE TYPICAL CONTROL STATION DETAIL ON THIS SHEET. TYPICAL.

2. PROVIDE NXSW-6 CONTROL STATION AT 46" AFF. REFERENCE DETAIL ON THIS SHEET FOR MORE INFORMATION. TYPICAL.

3. CONNECT TO CORRIDOR LIGHTING CIRCUIT. TYPICAL.



1) ALL ON
2) ALL OFF
3) TEACHING WALL 50%, TWO ROWS 100%
4) TEACHING WALL 0%, TWO ROWS 50%
5) UP
6) DOWN

B TYPICAL CONTROL STATION DETAIL

NO SCALE

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2018

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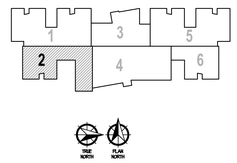

KEY PLAN

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JJ | CHK'D BY

LIGHTING FLOOR PLAN - AREA 2

E202

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NORTH TRUE PLAN NORTH

LIGHTING FLOOR PLAN – AREA 3

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

GENERAL ELECTRICAL NOTES :

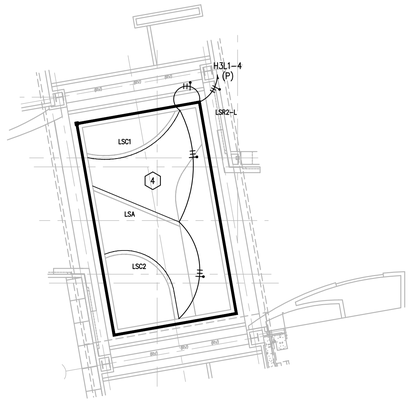
A. ALL EXTERIOR LIGHTING CIRCUITS SHALL BE MINIMUM #10 AWG.

B. COORDINATE EXACT HEIGHT AND LOCATIONS OF EXTERIOR FIXTURES WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.

C. CIRCUIT ALL EXTERIOR LIGHTING THROUGH A PHOTOCELL/TIMECLOCK SYSTEM. COORDINATE DESIRED FUNCTIONALITY AND PROVIDE ALL CIRCUITRY.

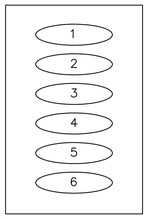
SPECIFIC ELECTRICAL NOTES (⬡):

1. PROVIDE AND INSTALL A NXRC-2RD-UNLV 4 ZONE ROOM CONTROLLER WITH 0-10V DIMMING. CIRCUIT TO EACH ZONE WITH LINE VOLTAGE AND (2) 0-10V CONTROL WIRES. CIRCUIT TO DUAL TECH NXOS-OMNIDT2 CEILING SENSOR WITH (1) CAT 6 CABLE. CIRCUIT TO 6 BUTTON NXSW-6 CONTROL STATION WITH (1) CAT 6 CABLE. REFERENCE TYPICAL CONTROL STATION DETAIL ON THIS SHEET. TYPICAL.
2. PROVIDE NXSW-6 CONTROL STATION AT 46" AFF. REFERENCE DETAIL ON THIS SHEET FOR MORE INFORMATION. TYPICAL.
3. CONNECT TO CORRIDOR LIGHTING CIRCUIT. TYPICAL.
4. CIRCUIT TO LOW VOLTAGE SWITCH SHOWN ON SHEET E203.



A ENLARGED LIGHTING PLAN @ MAIN CORRIDOR INTERSECTION

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



1) SEATING
2) TROFFERS
3) RECESSED LINEAR
4) DECORATIVE/PENDANT
5) UP
6) DOWN

B MEDIA CONTROL STATION DETAIL

NO SCALE

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2018

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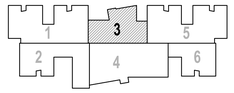

TRUE NORTH PLAN NORTH

KEY PLAN

REVISIONS

03.06.18

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LIGHTING FLOOR PLAN - AREA 3

E203

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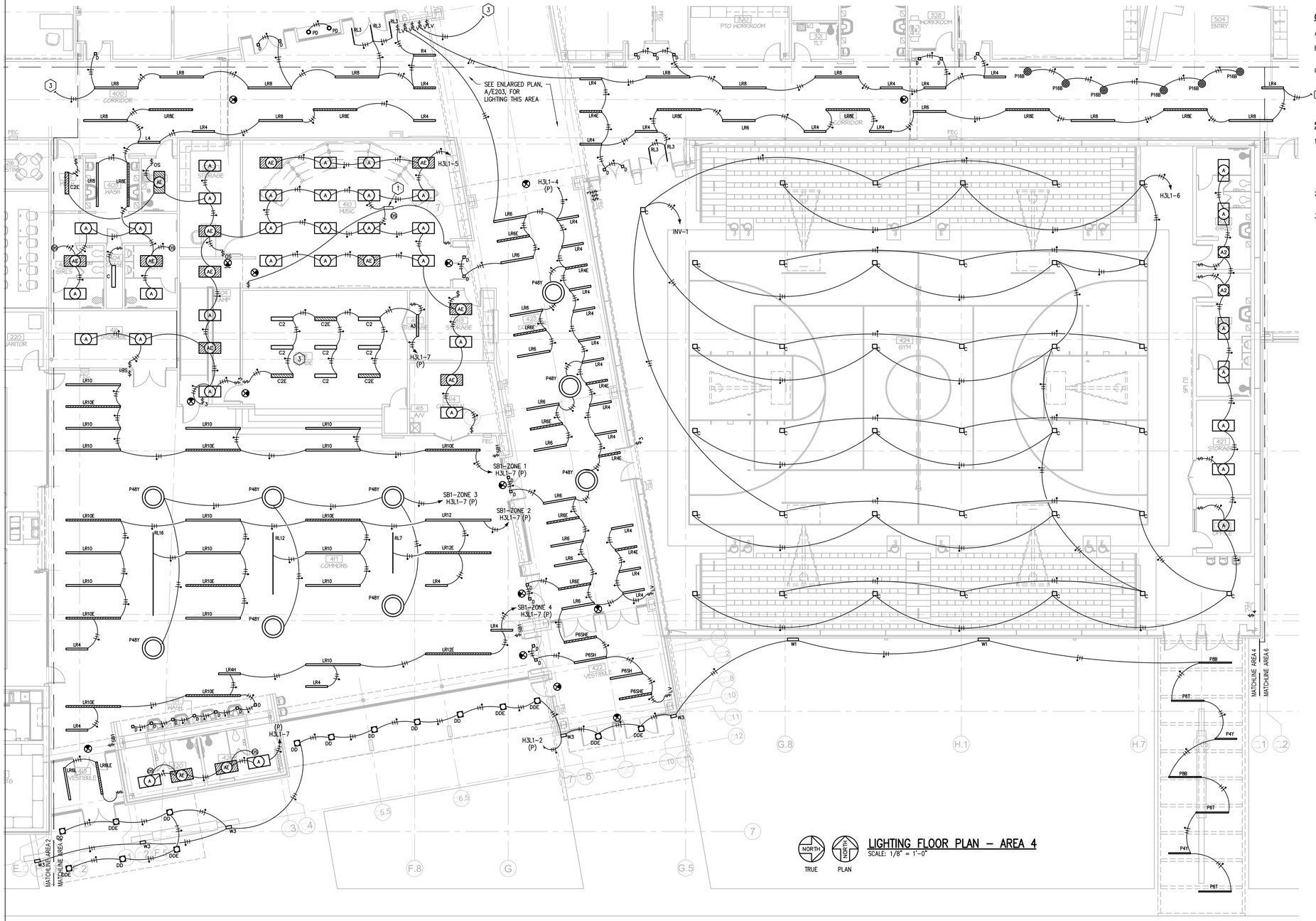


LIGHTING FLOOR PLAN – AREA 4

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

GENERAL ELECTRICAL NOTES :

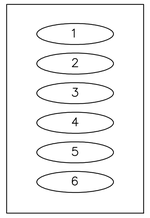
A. ALL EXTERIOR LIGHTING CIRCUITS SHALL BE MINIMUM #10 AWG.

B. COORDINATE EXACT HEIGHT AND LOCATIONS OF EXTERIOR FIXTURES WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.

C. CIRCUIT ALL EXTERIOR LIGHTING THROUGH A PHOTOCELL/TIMECLOCK SYSTEM. COORDINATE DESIRED FUNCTIONALITY AND PROVIDE ALL CIRCUITRY.

SPECIFIC ELECTRICAL NOTES (⬡):

1. PROVIDE AND INSTALL A NXRC-2RD-UNLV 2 ZONE ROOM CONTROLLER WITH 0-10V DIMMING. CIRCUIT TO EACH ZONE WITH LINE VOLTAGE AND (2) 0-10V CONTROL WIRES. CIRCUIT TO DUAL TECH NXOS-OMNIDT2 CEILING SENSOR WITH (1) CAT 6 CABLE. CIRCUIT TO 6 BUTTON NXSW-6 CONTROL STATION WITH (1) CAT 6 CABLE. REFERENCE TYPICAL CONTROL STATION DETAIL ON THIS SHEET. TYPICAL.
2. PROVIDE NXSW-6 CONTROL STATION AT 46" AFF. REFERENCE DETAIL ON THIS SHEET FOR MORE INFORMATION. TYPICAL.
3. CONNECT TO CORRIDOR LIGHTING CIRCUIT. TYPICAL.



1) FRONT ROW
2) SEATING
3) PENDANTS
4) BACK WALL
5) UP
6) DOWN

B COMMONS CONTROL STATION DETAIL

NO SCALE

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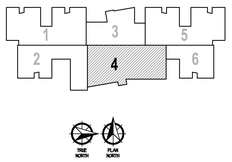

KEY PLAN

REVISIONS

03.06.18

ISSUE DATE

1507 NES II | PROJECT NO
DRAWN BY
CHKD BY

LIGHTING FLOOR PLAN - AREA 4

E204

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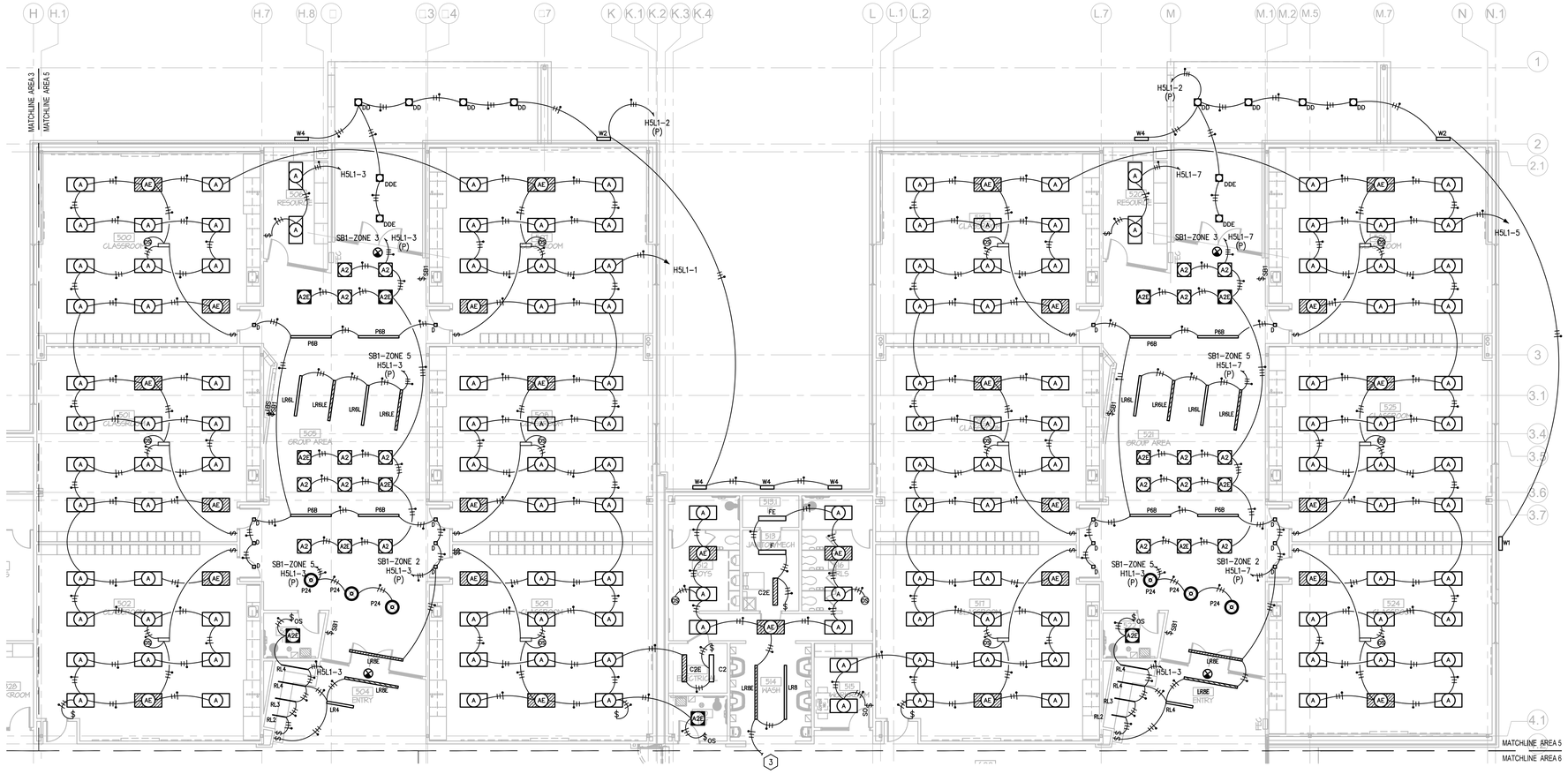


LIGHTING FLOOR PLAN – AREA 5

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

GENERAL ELECTRICAL NOTES :

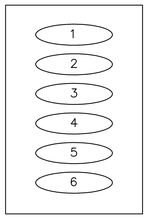
A. ALL EXTERIOR LIGHTING CIRCUITS SHALL BE MINIMUM #10 AWG.

B. COORDINATE EXACT HEIGHT AND LOCATIONS OF EXTERIOR FIXTURES WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.

C. CIRCUIT ALL EXTERIOR LIGHTING THROUGH A PHOTOCELL/TIMECLOCK SYSTEM. COORDINATE DESIRED FUNCTIONALITY AND PROVIDE ALL CIRCUITRY.

SPECIFIC ELECTRICAL NOTES (⬡):

1. PROVIDE AND INSTALL A NXRC-2RD-UNLV 2 ZONE ROOM CONTROLLER WITH 0-10V DIMMING. CIRCUIT TO EACH ZONE WITH LINE VOLTAGE AND (2) 0-10V CONTROL WIRES. CIRCUIT TO DUAL TECH NXOS-OMNIDT2 CEILING SENSOR WITH (1) CAT 6 CABLE. CIRCUIT TO 6 BUTTON NXSW-6 CONTROL STATION WITH (1) CAT 6 CABLE. REFERENCE TYPICAL CONTROL STATION DETAIL ON THIS SHEET. TYPICAL.
2. PROVIDE NXSW-6 CONTROL STATION AT 46" AFF. REFERENCE DETAIL ON THIS SHEET FOR MORE INFORMATION. TYPICAL.
3. CONNECT TO CORRIDOR LIGHTING CIRCUIT. TYPICAL.



1) ALL ON
2) ALL OFF
3) TEACHING WALL 50%, TWO ROWS 100%
4) TEACHING WALL 0%, TWO ROWS 50%
5) UP
6) DOWN

B TYPICAL CONTROL STATION DETAIL

NO SCALE

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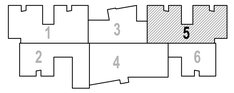

TRUE NORTH PLAN NORTH

KEY PLAN

REVISIONS

03.06.18

ISSUE DATE

1507	PROJECT NO
NES	DRAWN BY
JJ	CHKD BY

LIGHTING FLOOR PLAN - AREA 5

E205

SHEET TITLE

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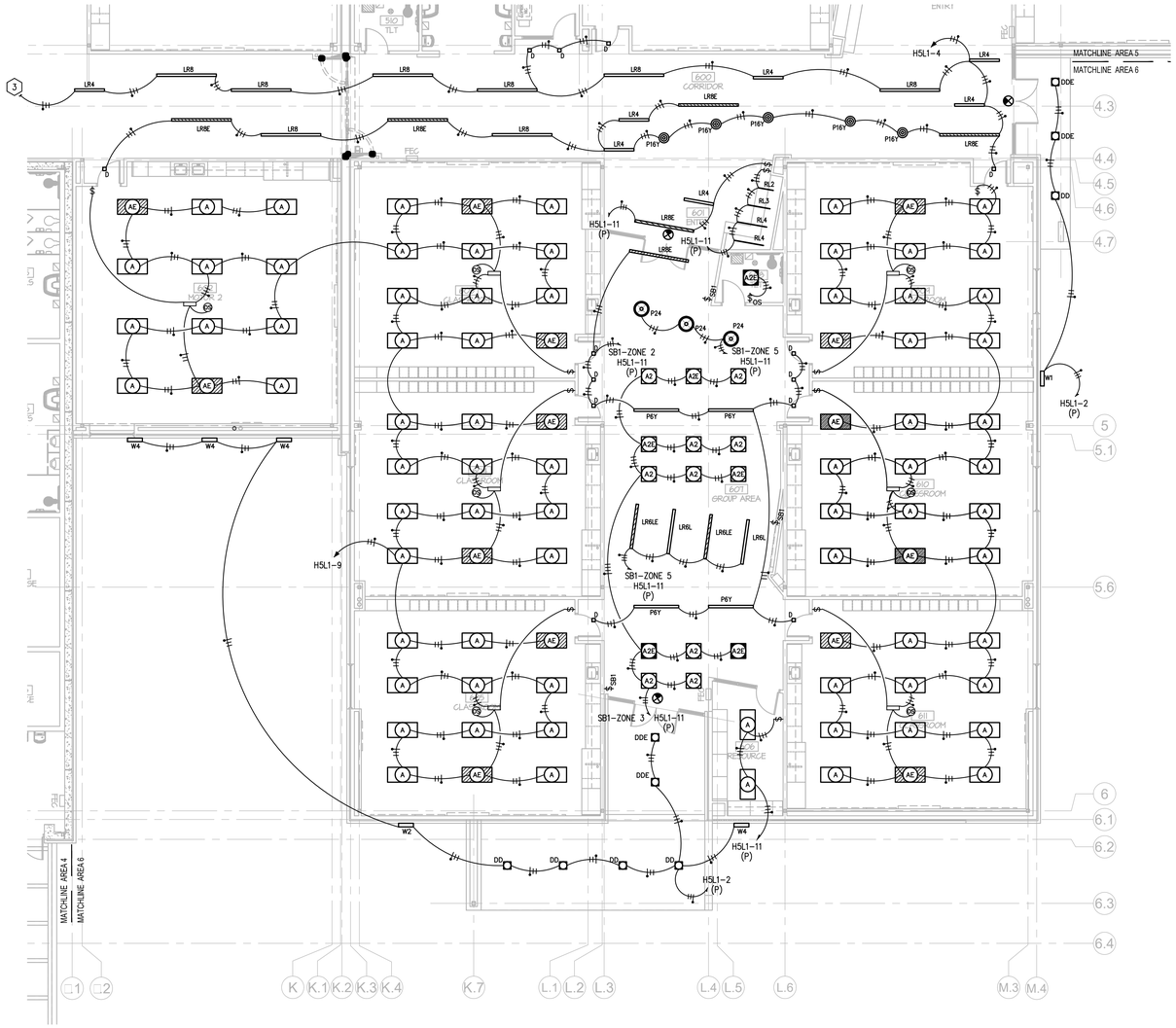


NORTH TRUE | NORTH PLAN

LIGHTING FLOOR PLAN – AREA 6

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

GENERAL ELECTRICAL NOTES :

A. ALL EXTERIOR LIGHTING CIRCUITS SHALL BE MINIMUM #10 AWG.

B. COORDINATE EXACT HEIGHT AND LOCATIONS OF EXTERIOR FIXTURES WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.

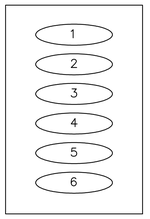
C. CIRCUIT ALL EXTERIOR LIGHTING THROUGH A PHOTOCELL/TIMECLOCK SYSTEM. COORDINATE DESIRED FUNCTIONALITY AND PROVIDE ALL CIRCUITRY.

SPECIFIC ELECTRICAL NOTES (⬡):

1. PROVIDE AND INSTALL A NXRC-2RD-UNLV 2 ZONE ROOM CONTROLLER WITH 0-10V DIMMING. CIRCUIT TO EACH ZONE WITH LINE VOLTAGE AND (2) 0-10V CONTROL WIRES. CIRCUIT TO DUAL TECH NXOS-OMNIDT2 CEILING SENSOR WITH (1) CAT 6 CABLE. CIRCUIT TO 6 BUTTON NXSW-6 CONTROL STATION WITH (1) CAT 6 CABLE. REFERENCE TYPICAL CONTROL STATION DETAIL ON THIS SHEET. TYPICAL.

2. PROVIDE NXSW-6 CONTROL STATION AT 46" AFF. REFERENCE DETAIL ON THIS SHEET FOR MORE INFORMATION. TYPICAL.

3. CONNECT TO CORRIDOR LIGHTING CIRCUIT. TYPICAL.



1) ALL ON
2) ALL OFF
3) TEACHING WALL 50%, TWO ROWS 100%
4) TEACHING WALL 0%, TWO ROWS 50%
5) UP
6) DOWN

B TYPICAL CONTROL STATION DETAIL

NO SCALE

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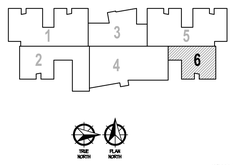

KEY PLAN

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LIGHTING FLOOR PLAN - AREA 6

E206

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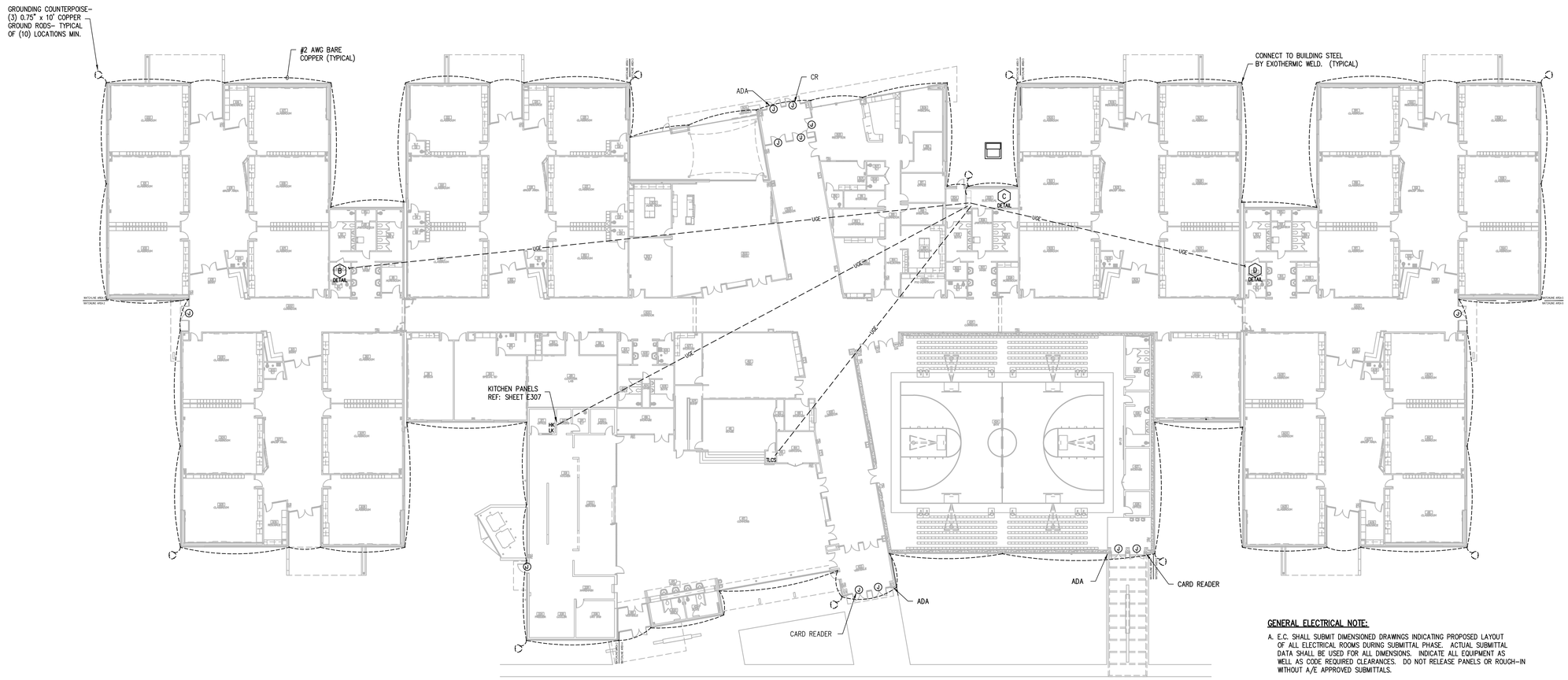


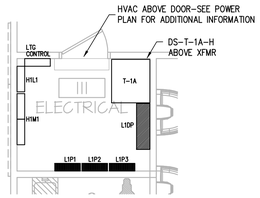
NORTH TRUE NORTH PLAN

A OVERALL ELECTRICAL DISTRIBUTION AND GROUNDING PLAN
SCALE: 1" = 20'-0"

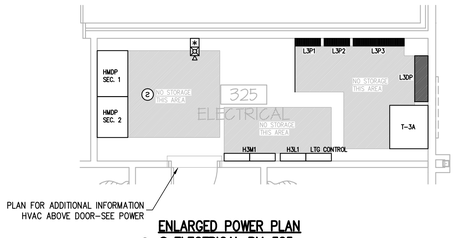
GENERAL ELECTRICAL NOTE:

A. E.C. SHALL SUBMIT DIMENSIONED DRAWINGS INDICATING PROPOSED LAYOUT OF ALL ELECTRICAL ROOMS DURING SUBMITTAL PHASE. ACTUAL SUBMITTAL DATA SHALL BE USED FOR ALL DIMENSIONS. INDICATE ALL EQUIPMENT AS WELL AS CODE REQUIRED CLEARANCES. DO NOT RELEASE PANELS OR ROUGH-IN WITHOUT A/E APPROVED SUBMITTALS.

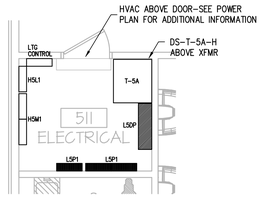
B. REFER TO E400-E406 FOR DATA, COMMUNICATION, CLOCK, SECURITY & FIRE ALARM DEVICE LOCATIONS & REQUIREMENTS.



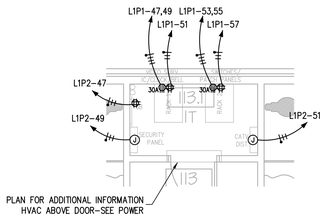
B ENLARGED POWER PLAN
ELECTRICAL RM 111
SCALE: 1/4" = 1'-0"



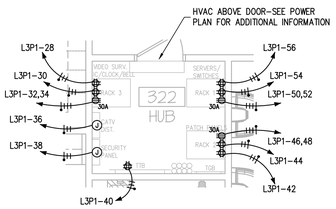
C ENLARGED POWER PLAN
ELECTRICAL RM 325
SCALE: 1/4" = 1'-0"



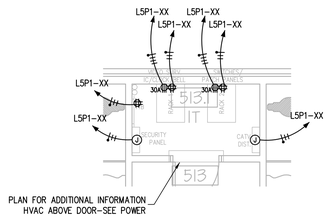
D ENLARGED POWER PLAN
ELECTRICAL RM 511
SCALE: 1/4" = 1'-0"



E ENLARGED I.T. ROOM 113.1
POWER FLOOR PLAN
SCALE: 1/8" = 1'-0"



F ENLARGED HUB ROOM 322
POWER FLOOR PLAN
SCALE: 1/8" = 1'-0"



G ENLARGED I.T. ROOM 513.1
POWER FLOOR PLAN
SCALE: 1/8" = 1'-0"

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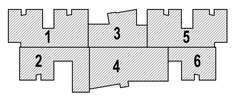

TRUE NORTH PLAN NORTH

KEY PLAN

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ISSUE DATE

1507	PROJECT NO
DWM	DRAWN BY
WAM	CHKD BY

OVERALL POWER DISTRIBUTION PLAN & ENLARGED ELECTRICAL ROOMS

E300

SHEET TITLE

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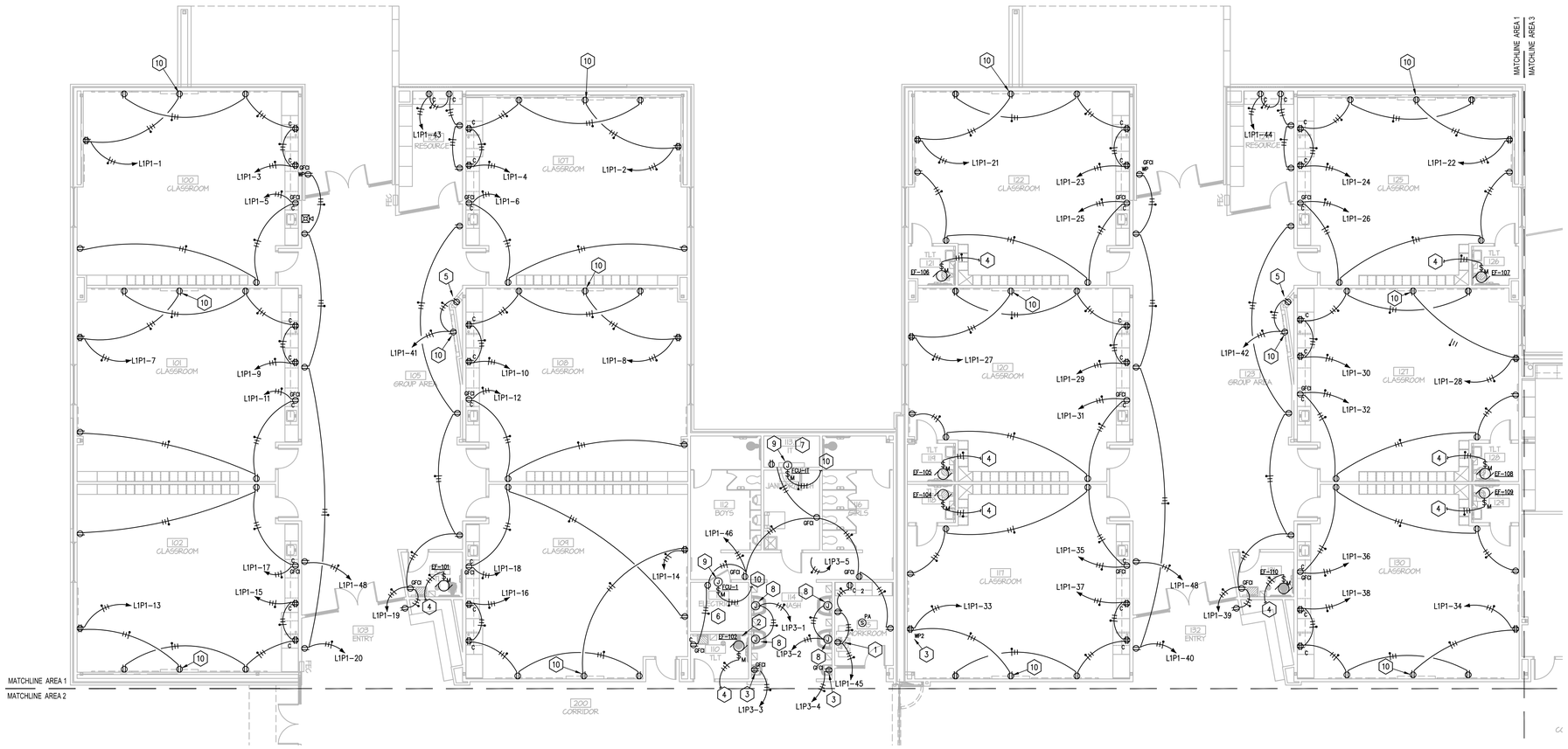

NORTH TRUE

NORTH PLAN

POWER FLOOR PLAN – AREA 1

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

GENERAL ELECTRICAL NOTES:

A. COORDINATE EXACT LOCATION OF ALL DEVICES WITH ARCHITECTURAL AND MILLWORK ELEVATIONS AND REFLECTED CEILING PLANS PRIOR TO ROUGH-IN. IF EXACT LOCATION CANNOT BE DETERMINED IN FIELD, REQUEST DIRECTION FROM A/E PRIOR TO ROUGH-IN.

B. REFER TO E400-E406 FOR DATA, COMMUNICATION, CLOCK, SECURITY & FIRE ALARM DEVICE LOCATIONS & REQUIREMENTS.

SPECIFIC ELECTRICAL NOTES (⬡):

1. PROVIDE AND INSTALL RECEPTACLE FOR COPIER. COORDINATE EXACT REQUIREMENTS INCLUDING VOLTAGE, AMPERE RATING, AND NEMA PLUG CONFIGURATION WITH OWNER PRIOR TO RELEASE OF GEAR PACKAGE. TYPICAL.
2. EXTEND AND CONNECT TO OUTDOOR CONDENSING UNIT PER MANUFACTURER'S RECOMMENDATIONS. TYPICAL.
3. PROVIDE AND INSTALL RECEPTACLE FOR ELECTRIC WATER COOLER. MOUNT RECEPTACLE BEHIND EWC SKIRT. PROVIDE GFCI PROTECTION AT BREAKER. TYPICAL.
4. EXTEND AND CONNECT TO RESTROOM LIGHTING CIRCUIT AND CONTROLS. PROVIDE MOTOR RATED SWITCH FOR LOCALIZED MEANS OF DISCONNECT AT FAN MOTOR. TYPICAL.
5. PROVIDE & INSTALL RECEPTACLE AT 48" INSIDE WALL "NOOK".
6. SEE SHEET E300 FOR ADDITIONAL EQUIPMENT IN THIS AREA.
7. SEE SHEET E400 FOR ADDITIONAL EQUIPMENT IN THIS AREA.
8. ROUGH-IN AND MAKE FINAL CONNECTION TO AUTOMATIC HAND SINK. TYPICAL.
9. ROUGH-IN AND MAKE FINAL CONNECTION TO INDOOR FAN COIL UNIT. PROVIDE MOTOR RATED SWITCH FOR LOCALIZED DISCONNECT IF NOT PROVIDED BY UNIT MANUFACTURER. TYPICAL.
10. CONTRACTOR SHALL COORDINATE ROUGH-IN LOCATIONS FOR POWER AND DATA FOR OWNER PROVIDED SMART PANEL (SP). MOCK-UP ELEVATION OF TEACHING WALL TO SHOW ALL ROUGH-IN THAT IS REQUIRED. PROVIDE RECESSED ENCLOSURE BEHIND SMART PANEL, EQUAL TO ARLINGTON TV6713 AND SUBMIT FOR APPROVAL. STUB 1.25" CONDUIT ABOVE CEILING WITH PLASTIC BUSHING. PROVIDE AND INSTALL ALL CABLING FROM SMART PANEL TO WP1. SEE E400 SERIES DRAWINGS FOR DATA LOCATIONS. TYPICAL.

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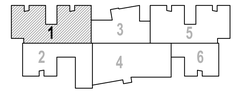

TRUE NORTH PLAN NORTH

KEY PLAN

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ISSUE DATE

1507	PROJECT NO
NES	DRAWN BY
JJ	CHKD BY

POWER FLOOR PLAN - AREA 1

E301

SHEET TITLE

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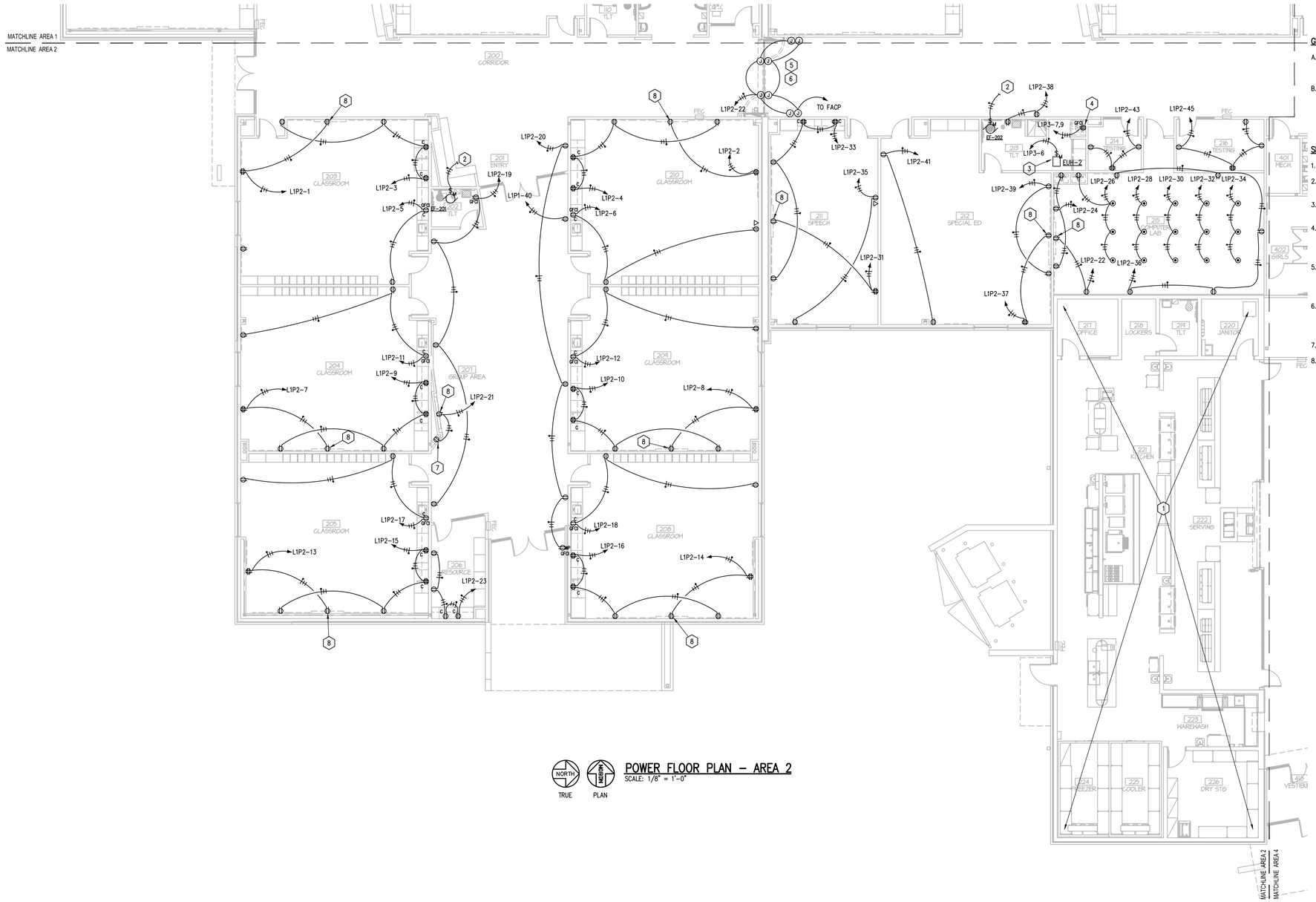

NORTH TRUE
NORTH PLAN

POWER FLOOR PLAN – AREA 2

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

GENERAL ELECTRICAL NOTES:

A. COORDINATE EXACT LOCATION OF ALL DEVICES WITH ARCHITECTURAL AND MILLWORK ELEVATIONS AND REFLECTED CEILING PLANS PRIOR TO ROUGH-IN. IF EXACT LOCATION CANNOT BE DETERMINED IN FIELD, REQUEST DIRECTION FROM A/E PRIOR TO ROUGH-IN.

B. REFER TO E400-E406 FOR DATA, COMMUNICATION, CLOCK, SECURITY & FIRE ALARM DEVICE LOCATIONS & REQUIREMENTS.

SPECIFIC ELECTRICAL NOTES (⬡):

1. REFER TO ENLARGED KITCHEN POWER PLAN FOR POWER REQUIREMENTS.
2. EXTEND AND CONNECT TO RESTROOM LIGHTING CIRCUIT AND CONTROLS. PROVIDE MOTOR RATED SWITCH FOR LOCALIZED MEANS OF DISCONNECT AT FAN MOTOR. TYPICAL.
3. ROUGH-IN AND MAKE FINAL CONNECTION TO ELECTRICAL HEATING UNIT. PROVIDE MOTOR RATED SWITCH FOR LOCALIZED DISCONNECT. TYPICAL.
4. PROVIDE AND INSTALL RECEPTACLE(S) FOR STACKABLE WASHER/DRYER EQUIPMENT. COORDINATE EXACT REQUIREMENTS INCLUDING VOLTAGE, AMPERE RATING, AND NEMA PLUG CONFIGURATION PRIOR TO PANELBOARD RELEASE. TYPICAL.
5. ROUGH-IN AND MAKE FINAL CONNECTION TO MAGNETIC HOLD-OPEN DEVICE. DEVICE SHALL RELEASE DOOR UPON SIGNAL FROM FIRE ALARM SYSTEM. COORDINATE EXACT REQUIREMENTS PRIOR TO ROUGH-IN. ROUTE POWER AND SIGNAL CABLING IN SEPARATE BOXES/CONDUITS. TYPICAL.
6. MAKE ALL NECESSARY CONNECTIONS TO POWER SUPPLES PROVIDED WITH DOOR PACKAGE AND/OR ACCESS CONTROL. MAKE ALL NECESSARY CONNECTIONS TO FIRE ALARM, SECURITY AND ACCESS CONTROL EQUIPMENT. COORDINATE EXACT LOCATION AND ALL REQUIREMENTS. TYPICAL.
7. PROVIDE & INSTALL RECEPTACLE AT 48" INSIDE WALL "NOOK".
8. CONTRACTOR SHALL COORDINATE ROUGH-IN LOCATIONS FOR POWER AND DATA FOR OWNER PROVIDED SMART PANEL (SP). MOCK-UP ELEVATION OF TEACHING WALL TO SHOW ALL ROUGH-IN THAT IS REQUIRED. PROVIDE RECESSED ENCLOSURE BEHIND SMART PANEL, EQUAL TO ARLINGTON TV6713 AND SUBMIT FOR APPROVAL. STUB 1.25" CONDUIT ABOVE CEILING WITH PLASTIC BUSHING. PROVIDE AND INSTALL ALL CABLING FROM SMART PANEL TO WP1. SEE E400 SERIES DRAWINGS FOR DATA LOCATIONS. TYPICAL.

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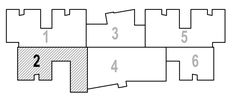

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PLAN NORTH

KEY PLAN

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N2S DRAWN BY
J1 CHK'D BY

POWER FLOOR PLAN - AREA 2

E302

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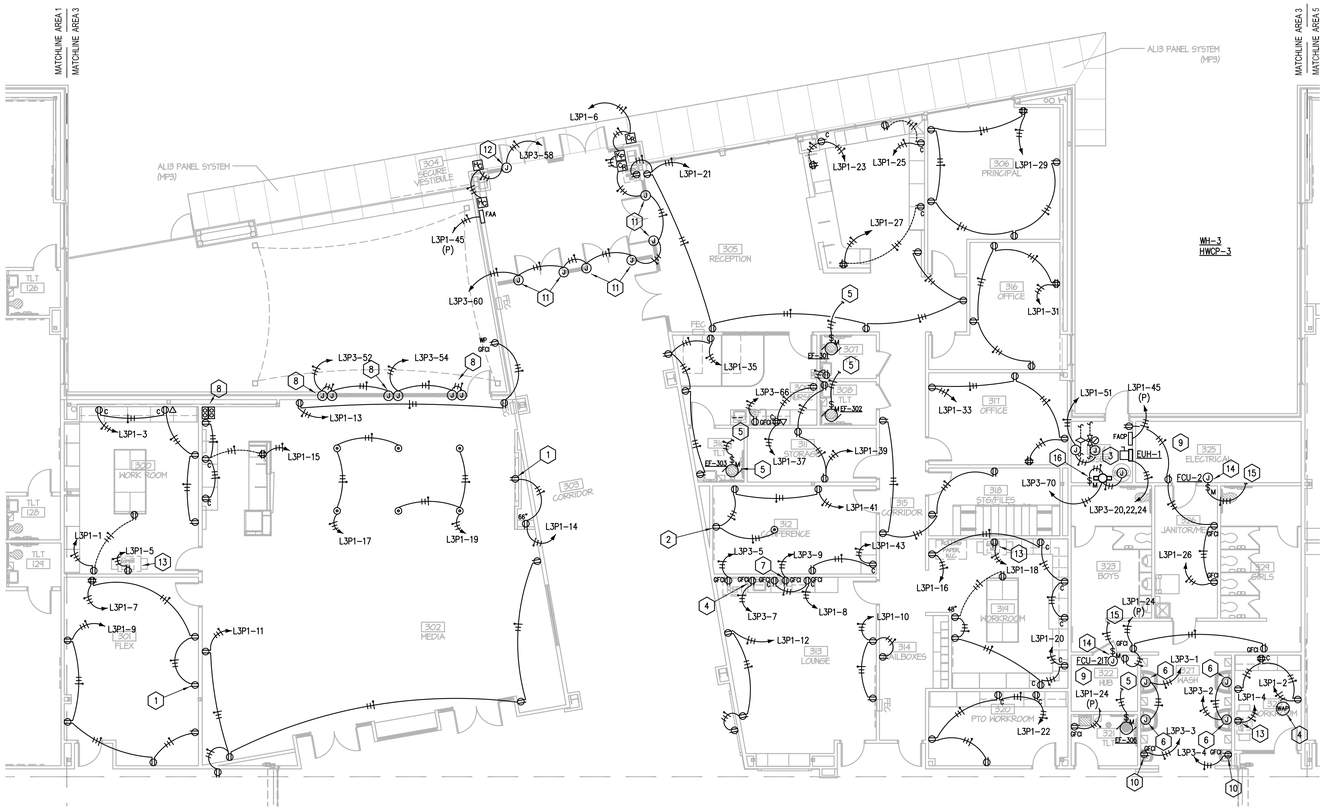

POWER FLOOR PLAN – AREA 3

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

NORTH TRUE — NORTH PLAN

GENERAL ELECTRICAL NOTES:

A. COORDINATE EXACT LOCATION OF ALL DEVICES WITH ARCHITECTURAL AND MILLWORK ELEVATIONS AND REFLECTED CEILING PLANS PRIOR TO ROUGH-IN. IF EXACT LOCATION CANNOT BE DETERMINED IN FIELD, REQUEST DIRECTION FROM A/E PRIOR TO ROUGH-IN.

B. REFER TO E400-E406 FOR DATA, COMMUNICATION, CLOCK, SECURITY & FIRE ALARM DEVICE LOCATIONS & REQUIREMENTS.

SPECIFIC ELECTRICAL NOTES (⬡):

1. CONTRACTOR SHALL COORDINATE ROUGH-IN LOCATIONS FOR POWER AND DATA FOR OWNER PROVIDED SMART PANEL (SP). MOCK-UP ELEVATION OF TEACHING WALL TO SHOW ALL ROUGH-IN THAT IS REQUIRED. PROVIDE RECESSED ENCLOSURE BEHIND SMART PANEL, EQUAL TO ARLINGTON TVB713 AND SUBMIT FOR APPROVAL. STUB 1.25" CONDUIT ABOVE CEILING WITH PLASTIC BUSHING. PROVIDE AND INSTALL ALL CABLING FROM SMART PANEL TO WP1. SEE E400 SERIES DRAWINGS FOR DATA LOCATIONS. TYPICAL.

2. CONTRACTOR SHALL COORDINATE ROUGH-IN LOCATION FOR POWER AND DATA FOR OWNER PROVIDED SMART PANEL (SP). PROVIDE RECESSED ENCLOSURE BEHIND SMART PANEL, EQUAL TO ARLINGTON TVB713 AND SUBMIT FOR APPROVAL. STUB 1.25" CONDUIT ABOVE CEILING WITH PLASTIC BUSHING. PROVIDE AND INSTALL ALL CABLING FROM SMART PANEL TO WP1. SEE E400 SERIES DRAWINGS FOR DATA LOCATIONS. TYPICAL.

3. PROVIDE AND INSTALL A 3P-30A FUSED SAFETY SWITCH WITHIN A NEMA 1 ENCLOSURE. SIZE FUSES PER MANUFACTURER'S RECOMMENDATIONS. ROUGH-IN AND MAKE FINAL CONNECTIONS AS REQUIRED. TYPICAL.

4. PROVIDE AND INSTALL COUNTER-MOUNTED SWITCH FOR DISPOSER, COORDINATE LOCATION WITH ARCHITECTURAL ELEVATIONS.

5. EXTEND AND CONNECT TO RESTROOM LIGHTING CIRCUIT AND CONTROLS. PROVIDE MOTOR RATED SWITCH FOR LOCALIZED MEANS OF DISCONNECT AT FAN MOTOR. TYPICAL.

6. ROUGH-IN AND MAKE FINAL CONNECTION TO AUTOMATIC HAND SINK. TYPICAL.

7. PROVIDE AND INSTALL RECEPTACLE FOR MICROWAVE. COORDINATE INSTALLATION WITH ARCHITECTURAL AND MILLWORK ELEVATIONS PRIOR TO ROUGH-IN. TYPICAL.

8. ROUGH-IN AND MAKE NECESSARY CONNECTION TO ROLLER SHADE AND WALL CONTROLLER. COORDINATE ALL REQUIREMENTS OF SHADES PRIOR TO ROUGH-IN. PROVIDE LOW VOLTAGE CONTROL AND NECESSARY RELAYS TO OPERATE TOP SHADES SIMULTANEOUSLY AND BOTTOM SHADES SIMULTANEOUSLY.

9. SEE SHEET E300 FOR ADDITIONAL EQUIPMENT IN THIS AREA.

10. PROVIDE AND INSTALL RECEPTACLE FOR ELECTRIC WATER COOLER. MOUNT RECEPTACLE BEHIND EWC SKIRT. PROVIDE GFCI PROTECTION AT BREAKER. TYPICAL.

11. ROUGH IN & MAKE FINAL CONNECTION TO AUTOMATIC DOOR SYSTEM. PROVIDE & INSTALL ADDITIONAL LOW VOLTAGE CONNECTION TO CONTROLLER AT RECEPTION DESK IN ADDITION TO LINE VOLTAGE POWER. COORDINATE EXACT REQUIREMENTS WITH FINAL DOOR HARDWARE SUBMITTAL PRIOR TO ROUGH-IN.

12. ROUGH-IN AND MAKE FINAL CONNECTION TO HANDICAP DOOR. TYPICAL.

13. PROVIDE AND INSTALL RECEPTACLE FOR COPIER. COORDINATE EXACT REQUIREMENTS INCLUDING VOLTAGE, AMPERE RATING, AND NEMA PLUG CONFIGURATION WITH OWNER PRIOR TO RELEASE OF GEAR PACKAGE. TYPICAL.

14. ROUGH-IN AND MAKE FINAL CONNECTION TO INDOOR FAN COIL UNIT. PROVIDE MOTOR RATED SWITCH FOR LOCALIZED DISCONNECT IF NOT PROVIDED BY UNIT MANUFACTURER. TYPICAL.

15. EXTEND AND CONNECT TO OUTDOOR CONDENSING UNIT PER MANUFACTURER'S RECOMMENDATIONS. TYPICAL.

16. PROVIDE AND INSTALL A FRACTIONAL HORSEPOWER MANUAL MOTOR STARTER IN A NEMA 1 ENCLOSURE. COORDINATE EXACT LOCATION AND ALL REQUIREMENTS WITH MECHANICAL/PLUMBING AND CONTROLS CONTRACTOR PRIOR TO ROUGH-IN. PROVIDE 0.75" CONDUIT AND MAKE ALL NECESSARY CONNECTIONS FOR INTERLOCK. TYPICAL.

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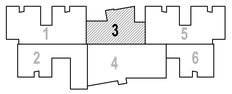
2018

PROJECT



TRUE NORTH — PLAN NORTH

KEY PLAN

REVISIONS

03.06.18

ISSUE DATE

1507	PROJECT NO
NJS	DRAWN BY
JJB	CHK'D BY

POWER FLOOR PLAN - AREA 3

E303

SHEET TITLE

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Plot Date: 3/6/2018 9:52 AM
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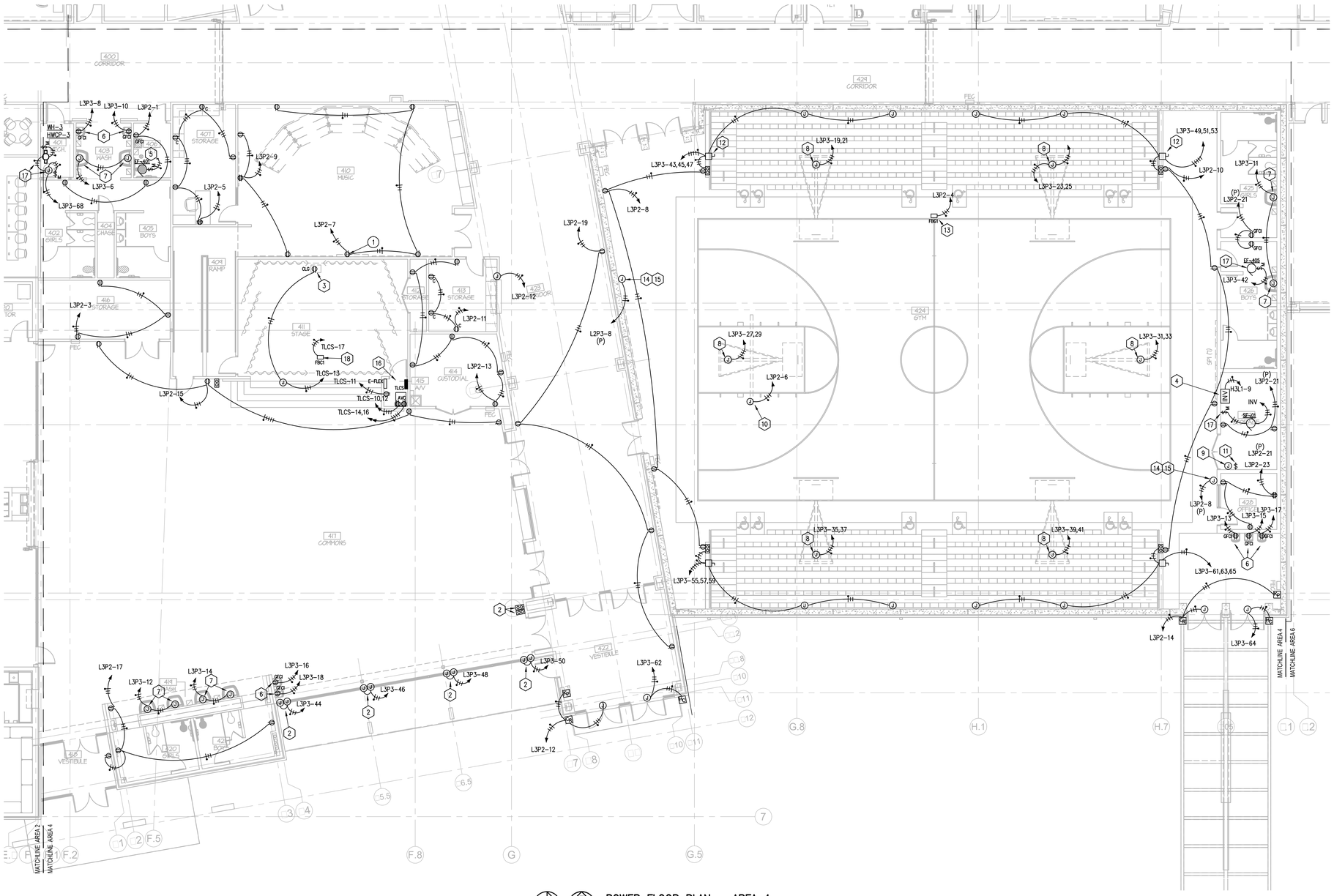
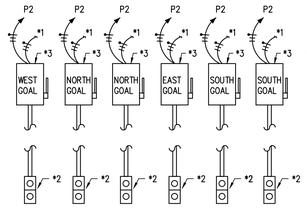


NORTH TRUE — NORTH PLAN

POWER FLOOR PLAN – AREA 4

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



GOAL MOTOR CONTROL NOTES:

*1 PROVIDE SEPARATE CONDUITS AND CABLING AS REQUIRED FOR LINE VOLTAGE FEED AND LOW-VOLTAGE CONTROL POWER.

*2 PROVIDE ALL PUSH-BUTTON DEVICES WITHIN A COMMON LOCKABLE ENCLOSURE.

*3 PROVIDE AND INSTALL SAFETY SWITCHES SIZED PER MANUFACTURER'S RECOMMENDATIONS AT EACH GOAL.

A GOAL MOTOR CONTROL LOCATION DETAIL

NO SCALE

GENERAL ELECTRICAL NOTES:

A. COORDINATE EXACT LOCATION OF ALL DEVICES WITH ARCHITECTURAL AND MILLWORK ELEVATIONS AND REFLECTED CEILING PLANS PRIOR TO ROUGH-IN. IF EXACT LOCATION CANNOT BE DETERMINED IN FIELD, REQUEST DIRECTION FROM A/E PRIOR TO ROUGH-IN.

B. REFER TO E400-E406 FOR DATA, COMMUNICATION, CLOCK, SECURITY & FIRE ALARM DEVICE LOCATIONS & REQUIREMENTS.

SPECIFIC ELECTRICAL NOTES (⬡):

1. CONTRACTOR SHALL COORDINATE ROUGH-IN LOCATIONS FOR POWER AND DATA FOR OWNER PROVIDED SMART PANEL (SP). MOCK-UP ELEVATION OF TEACHING WALL TO SHOW ALL ROUGH-IN THAT IS REQUIRED. PROVIDE RECESSED ENCLOSURE BEHIND SMART PANEL, EQUAL TO ARLINGTON TV8713 AND SUBMIT FOR APPROVAL. STUB 1.25" CONDUIT ABOVE CEILING WITH PLASTIC BUSHING. PROVIDE AND INSTALL ALL CABLING FROM SMART PANEL TO WP1. SEE E400 SERIES DRAWINGS FOR DATA LOCATIONS. TYPICAL.
2. ROUGH-IN AND MAKE NECESSARY CONNECTION TO ROLLER SHADE AND WALL CONTROLLER. COORDINATE ALL REQUIREMENTS OF SHADES PRIOR TO ROUGH-IN. PROVIDE LOW VOLTAGE CONTROL AND NECESSARY RELAYS TO OPERATE TOP SHADES SIMULTANEOUSLY AND BOTTOM SHADES SIMULTANEOUSLY.
3. PROVIDE AND INSTALL CEILING MOUNTED BLACK DEVICES AND COVER PLATES FOR POWER AND DATA IN CEILING LOCATED ON STAGE.
4. PROVIDE AND INSTALL INVERTER EQUAL TO DUAL-LITE LSN-277-37-C-277-C-20-4 WITHIN STORAGE ROOM. COORDINATE MOUNTING AND EXACT LOCATION PRIOR TO ROUGH-IN. MAINTAIN REQUIRED CLEARANCES.
5. EXTEND AND CONNECT TO RESTROOM LIGHTING CIRCUIT AND CONTROLS. PROVIDE MOTOR RATED SWITCH FOR LOCALIZED MEANS OF DISCONNECT AT FAN MOTOR. TYPICAL.
6. PROVIDE AND INSTALL RECEPTACLE FOR ELECTRIC WATER COOLER. MOUNT RECEPTACLE BEHIND EWC SKIRT. PROVIDE GFCI PROTECTION AT BREAKER. TYPICAL.
7. ROUGH-IN AND MAKE FINAL CONNECTION TO AUTOMATIC HAND SINK. TYPICAL.
8. BASKETBALL GOAL MOTOR CONTROL LOCATION. PROVIDE AND INSTALL (6) 2P-30A FUSED DISCONNECTS AT MOTOR LOCATIONS AND (6) PUSH-BUTTON TYPE ACTUATORS ON WALL. FEED TO GOAL LOCATIONS SHALL BE #8 AWG MINIMUM. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN. REFERENCE NOTE #9 AND DETAIL, THIS SHEET FOR ADDITIONAL INFO. TYPICAL.
9. PROVIDE AND INSTALL SWITCH BANK FOR ACTUATION OF GOAL MOTORS. REFERENCE DETAIL AND NOTE #8, THIS SHEET, FOR ADDITIONAL INFORMATION. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
10. PROVIDE AND INSTALL JBOX FOR PROJECTOR SCREEN. COORDINATE EXACT LOCATION AND ALL REQUIREMENTS PRIOR TO ROUGH-IN. TYPICAL.
11. PROVIDE AND INSTALL SWITCH AND ALL CABLING AS REQUIRED FOR CONTROL OF AUTOMATIC PROJECTION SCREEN. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN. REFER ARCHITECTURAL INTERIORS ELEVATION FOR SWITCH LOCATION.
12. PROVIDE AND INSTALL A 3P-30A FUSED DISCONNECT SWITCH WITHIN A NEMA 1 ENCLOSURE. SIZE FUSES PER MANUFACTURERS RECOMMENDATIONS. ROUGH-IN AND MAKE FINAL CONNECTION AS REQUIRED. MOUNT BLEACHER CONTROLLER WITHIN 2'-0" OF END OF BLEACHER, ACCESSIBLE. COORDINATE MOUNTING HEIGHT WITH BLEACHER MANUFACTURER AND OWNER. COORDINATE ALL POINTS OF CONNECTION WITH MANUFACTURER'S RECOMMENDATIONS.
13. PROVIDE AND INSTALL A THOMAS AND BETTS GAB6 FLOOR BOX WITH AFM6 INSERT. PROVIDE WITH (2) DUPLEX RECEPTACLES, (2) DATA OUTLETS, AND MICROPHONE/ A/V INPUT. ROUTE (1) 0.75" CONDUIT FOR POWER, (1) 1.25" CONDUIT FOR DATA, AND (1) 1.25" CONDUIT FOR A/V INTERFACE UNDER SLAB TO NEAREST ACCESSIBLE WALL, STUB-UP AND EXTEND AS REQUIRED. SEE SPECIAL SYSTEMS DETAILS FOR ADDITIONAL REQUIREMENTS. ROUTE CONDUIT TO AVOID INTERFERENCE WITH VOLLEYBALL NET INSERT. TYPICAL.
14. ROUGH-IN AND MAKE FINAL CONNECTION TO SCOREBOARD AT 14'-6" AFF. COORDINATE EXACT REQUIREMENTS WITH SCOREBOARD MANUFACTURER PRIOR TO ROUGH-IN. REFER TO INTERIOR ELEVATIONS FOR EXACT LOCATION OF SCOREBOARD.
15. PROVIDE AND INSTALL J-BOX AND DATA CONNECTION TO SCOREBOARD ADJACENT TO POWER. ROUTE (1) 1.25" CONDUIT AND STUB ABOVE NEAREST ACCESSIBLE CEILING. REFER TO INTERIOR ELEVATIONS FOR EXACT LOCATION OF SCOREBOARD.
16. COORDINATE LOCATION OF AV SYSTEM, STAGE LIGHTING DIMMER PANEL SYSTEM & HVAC DROP SERVING THIS SPACE.
17. PROVIDE AND INSTALL A FRACTIONAL HORSEPOWER MANUAL MOTOR STARTER IN A NEMA 1 ENCLOSURE. COORDINATE EXACT LOCATION AND ALL REQUIREMENTS WITH MECHANICAL/PLUMBING AND CONTROLS CONTRACTOR PRIOR TO ROUGH-IN. PROVIDE 0.75" CONDUIT AND MAKE ALL NECESSARY CONNECTIONS FOR INTERLOCK. TYPICAL.
18. MAKE ALL NECESSARY CONNECTION TO FLOOR BOX, REFERENCE E602.

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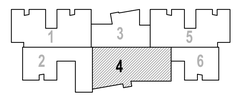
OWASSO PUBLIC SCHOOLS

OWASSO, OK
2018

PROJECT



TRUE NORTH — PLAN NORTH

KEY PLAN

REVISIONS

03.06.18

ISSUE DATE

1507 | PROJECT NO
NES | DRAWN BY
JJ | CHKD BY

POWER FLOOR PLAN - AREA 4

E304

SHEET TITLE

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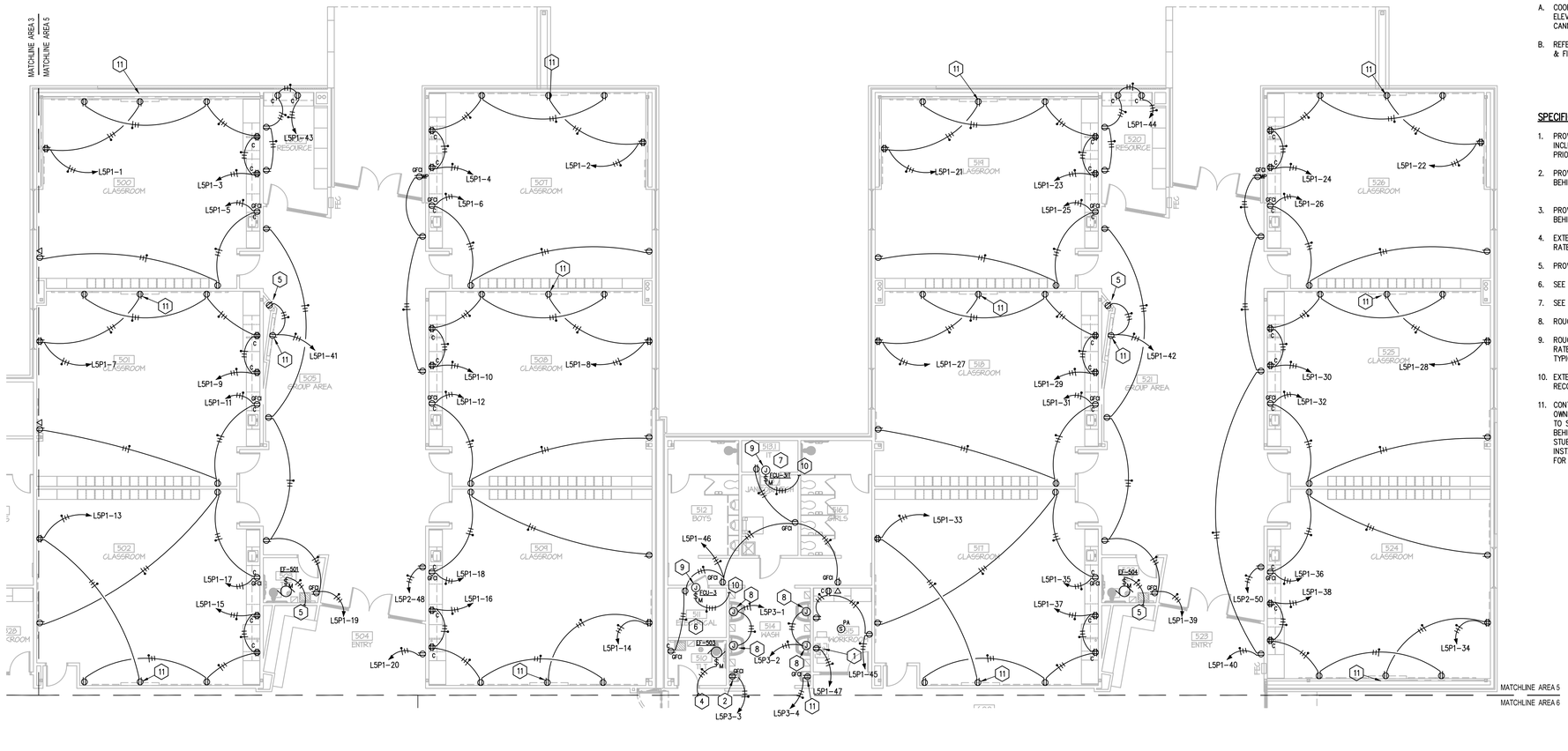

NORTH TRUE

NORTH PLAN

POWER FLOOR PLAN – AREA 5

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

GENERAL ELECTRICAL NOTES:

A. COORDINATE EXACT LOCATION OF ALL DEVICES WITH ARCHITECTURAL AND MILLWORK ELEVATIONS AND REFLECTED CEILING PLANS PRIOR TO ROUGH-IN. IF EXACT LOCATION CANNOT BE DETERMINED IN FIELD, REQUEST DIRECTION FROM A/E PRIOR TO ROUGH-IN.

B. REFER TO E400-E406 FOR DATA, COMMUNICATION, CLOCK, SECURITY & FIRE ALARM DEVICE LOCATIONS & REQUIREMENTS.

SPECIFIC ELECTRICAL NOTES (⬡):

1. PROVIDE AND INSTALL RECEPTACLE FOR COPIER. COORDINATE EXACT REQUIREMENTS INCLUDING VOLTAGE, AMPERE RATING, AND NEMA PLUG CONFIGURATION WITH OWNER PRIOR TO RELEASE OF GEAR PACKAGE. TYPICAL.
2. PROVIDE AND INSTALL RECEPTACLE FOR ELECTRIC WATER COOLER. MOUNT RECEPTACLE BEHIND EWC SKIRT. PROVIDE GFCI PROTECTION AT BREAKER. TYPICAL.
3. PROVIDE AND INSTALL RECEPTACLE FOR ELECTRIC WATER COOLER. MOUNT RECEPTACLE BEHIND EWC SKIRT. PROVIDE GFCI PROTECTION AT BREAKER. TYPICAL.
4. EXTEND AND CONNECT TO RESTROOM LIGHTING CIRCUIT AND CONTROLS. PROVIDE MOTOR RATED SWITCH FOR LOCALIZED MEANS OF DISCONNECT AT FAN MOTOR. TYPICAL.
5. PROVIDE & INSTALL RECEPTACLE AT 48" INSIDE WALL "NOOK".
6. SEE SHEET E300 FOR ADDITIONAL EQUIPMENT IN THIS AREA.
7. SEE SHEET E400 FOR ADDITIONAL EQUIPMENT IN THIS AREA.
8. ROUGH-IN AND MAKE FINAL CONNECTION TO AUTOMATIC HAND SINK. TYPICAL.
9. ROUGH-IN AND MAKE FINAL CONNECTION TO INDOOR FAN COIL UNIT. PROVIDE MOTOR RATED SWITCH FOR LOCALIZED DISCONNECT IF NOT PROVIDED BY UNIT MANUFACTURER. TYPICAL.
10. EXTEND AND CONNECT TO OUTDOOR CONDENSING UNIT PER MANUFACTURER'S RECOMMENDATIONS. TYPICAL.
11. CONTRACTOR SHALL COORDINATE ROUGH-IN LOCATIONS FOR POWER AND DATA FOR OWNER PROVIDED SMART PANEL (SP). MOCK-UP ELEVATION OF TEACHING WALL TO SHOW ALL ROUGH-IN THAT IS REQUIRED. PROVIDE RECESSED ENCLOSURE BEHIND SMART PANEL, EQUAL TO ARLINGTON TVB713 AND SUBMIT FOR APPROVAL. STUB 1.25" CONDUIT ABOVE CEILING WITH PLASTIC BUSHING. PROVIDE AND INSTALL ALL CABLING FROM SMART PANEL TO WP1. SEE E400 SERIES DRAWINGS FOR DATA LOCATIONS. TYPICAL.

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OWASSO, OK
2018

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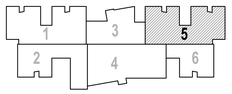

TRUE NORTH PLAN NORTH

KEY PLAN

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03.06.18

ISSUE DATE

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POWER FLOOR PLAN - AREA 5

E305

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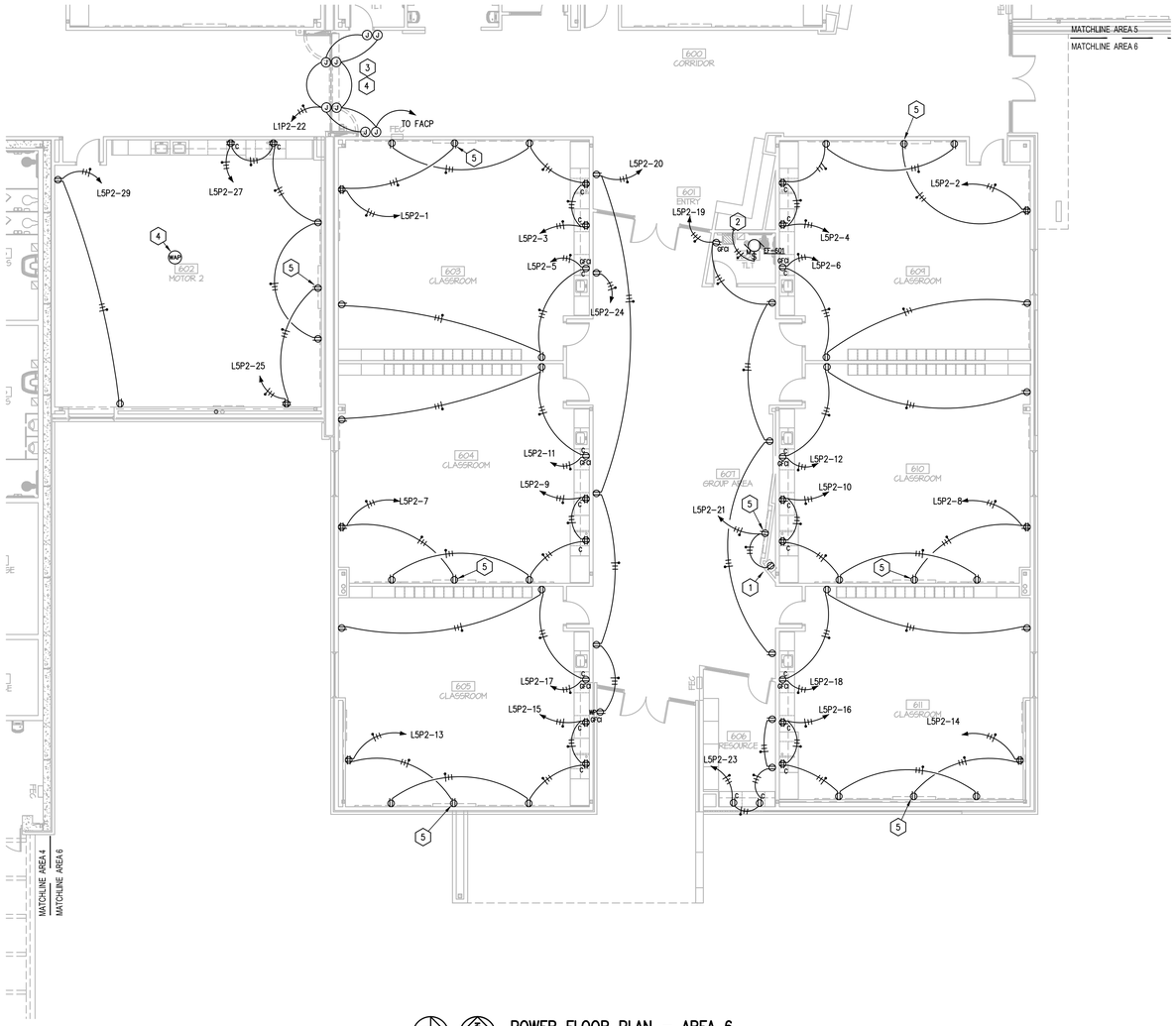

POWER FLOOR PLAN – AREA 6

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

TRUE NORTH — PLAN NORTH

GENERAL ELECTRICAL NOTES:

A. COORDINATE EXACT LOCATION OF ALL DEVICES WITH ARCHITECTURAL AND MILLWORK ELEVATIONS AND REFLECTED CEILING PLANS PRIOR TO ROUGH-IN. IF EXACT LOCATION CANNOT BE DETERMINED IN FIELD, REQUEST DIRECTION FROM A/E PRIOR TO ROUGH-IN.

B. REFER TO E400-E406 FOR DATA, COMMUNICATION, CLOCK, SECURITY & FIRE ALARM DEVICE LOCATIONS & REQUIREMENTS.

SPECIFIC ELECTRICAL NOTES (⬡):

1. PROVIDE & INSTALL RECEPTACLE AT 48" INSIDE WALL "NOOK".
2. EXTEND AND CONNECT TO RESTROOM LIGHTING CIRCUIT AND CONTROLS. PROVIDE MOTOR RATED SWITCH FOR LOCALIZED MEANS OF DISCONNECT AT FAN MOTOR. TYPICAL.
3. ROUGH-IN AND MAKE FINAL CONNECTION TO MAGNETIC HOLD-OPEN DEVICE. DEVICE SHALL RELEASE DOOR UPON SIGNAL FROM FIRE ALARM SYSTEM. COORDINATE EXACT REQUIREMENTS PRIOR TO ROUGH-IN. ROUTE POWER AND SIGNAL CABLING IN SEPARATE BOXES/CONDUITS. TYPICAL.
4. MAKE ALL NECESSARY CONNECTIONS TO POWER SUPPLIES PROVIDED WITH DOOR PACKAGE AND/OR ACCESS CONTROL. MAKE ALL NECESSARY CONNECTIONS TO FIRE ALARM, SECURITY AND ACCESS CONTROL EQUIPMENT. COORDINATE EXACT LOCATION AND ALL REQUIREMENTS. TYPICAL.
5. CONTRACTOR SHALL COORDINATE ROUGH-IN LOCATIONS FOR POWER AND DATA FOR OWNER PROVIDED SMART PANEL (SP). MOCK-UP ELEVATION OF TEACHING WALL TO SHOW ALL ROUGH-IN THAT IS REQUIRED. PROVIDE RECESSED ENCLOSURE BEHIND SMART PANEL, EQUAL TO ARLINGTON TVB713 AND SUBMIT FOR APPROVAL. STUB 1.25" CONDUIT ABOVE CEILING WITH PLASTIC BUSHING. PROVIDE AND INSTALL ALL CABLING FROM SMART PANEL TO WP1. SEE E400 SERIES DRAWINGS FOR DATA LOCATIONS. TYPICAL.

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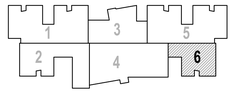

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KEY PLAN

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POWER FLOOR PLAN - AREA 6

E306

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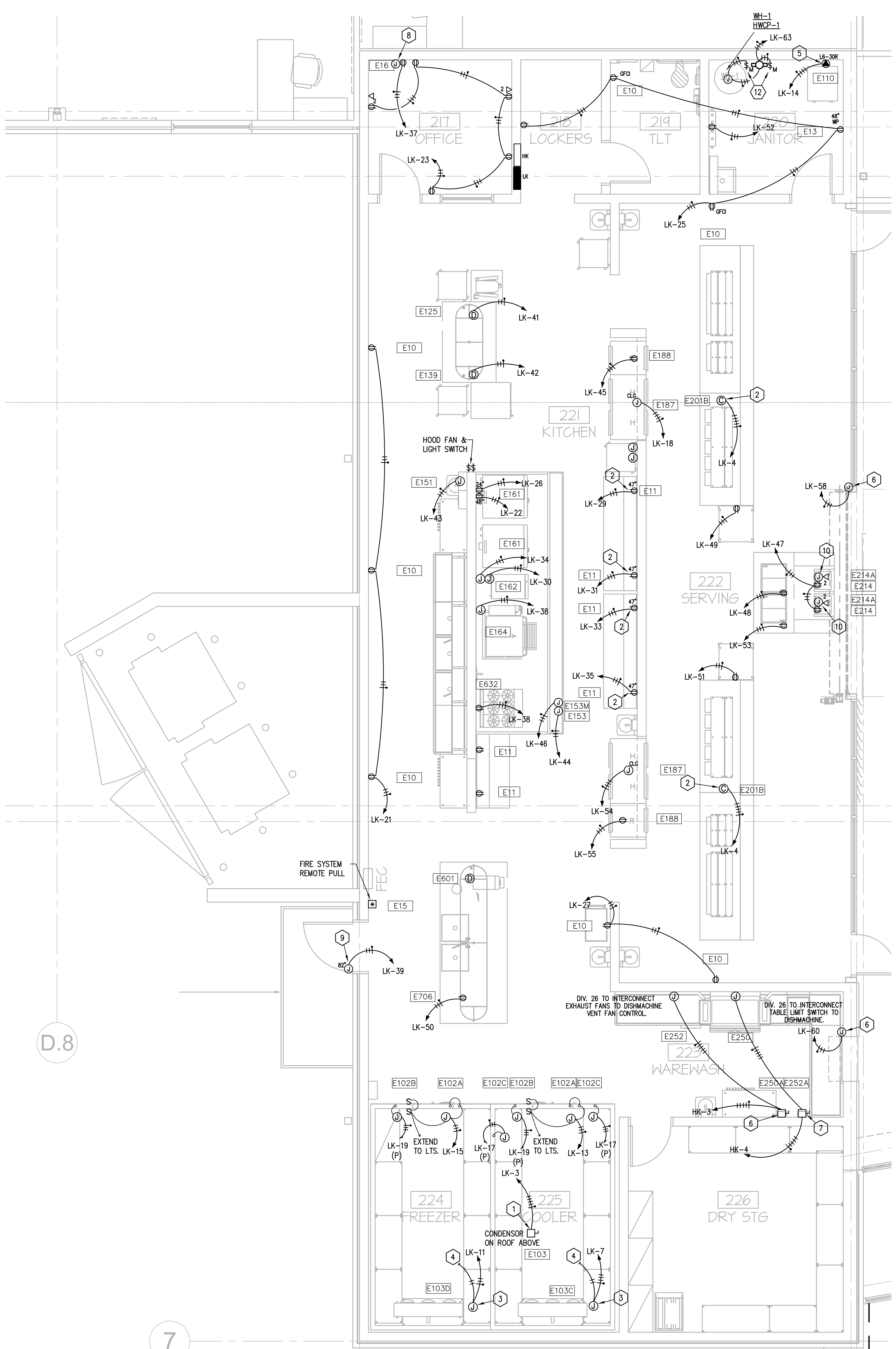

ENLARGED KITCHEN POWER PLAN

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

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

PANEL "HK"

AIC 14K

MAKE: SQ D
TYPE: NF
VOLTS: 480Y/277V
PHASE: 3
WIRE: 4

SN: YES
EQUIPMENT GROUND BUS: YES
DISCONNECT: MB
POLES: 3
AMPS: 150

MAINS AMP: 150
LOCATED: SEE PLAN
MOUNTING: RECESSED
ENCLOSURE TYPE: NEMA 1
ISOLATED GROUND: NO

CIRC NO.	TRIP AMPS	NO. POLES	LOAD SERVED	PHASE LOAD VA A	B	C	LOAD SERVED	NO. POLES	TRIP AMPS	CIRC NO.
1	--	--	--	12013 / 7722			--	--	--	2
3	40	3	DISHWASHER		12013 / 7722		BOOSTER HEATER	3	60	4
5	--	--	--			12013 / 7722	--	--	--	6
7	--	--	--	update / 1673			--	--	--	8
9	15	3	KSF-1		update / 1673		KEF-1	3	15	10
11	--	--	--			update / 1673	--	--	--	12
13	--	--	SHUNT-TRIP DEVICE	-- / --			SHUNT-TRIP DEVICE	--	--	14
15	--	--	SPACE		-- / --		SPACE	3	60	16
17	--	--	SPACE			-- / --	--	--	--	18
TOTAL CONNECTED LOAD (KVA): 59.2 ESTIMATED DEMAND LOAD (KVA): 59.2			TOTAL	19735	19735	19735	DEMAND LINE AMPS: 71.3			

* ESTIMATED

PANEL "LK" (2-SECTION W/ FEED THRU LUGS

AIC 14K

MAKE: SQ D
TYPE: NQOD
VOLTS: 208Y/120V
PHASE: 3
WIRE: 4

SN: YES
EQUIPMENT GROUND BUS: YES
DISCONNECT: MB
POLES: 3
AMPS: 400

MAINS AMP: 400
LOCATED: SEE PLAN
MOUNTING: RECESSED
ENCLOSURE TYPE: NEMA 1
ISOLATED GROUND: NO

CIRC NO.	TRIP AMPS	NO. POLES	LOAD SERVED	PHASE LOAD VA A	B	C	LOAD SERVED	NO. POLES	TRIP AMPS	CIRC NO.
1	--	--	--	9600 / 3874			--	--	--	2
3	50	3	REFRIGERATION SYSTEM		9600 / 3874		SERVING LINE LOADCENTER	3	100	4
5	--	--	--			9600 / 3874	--	--	--	6
7	20	2	FREEZER EVAPORATOR	9600 / 1217			--	--	--	8
9	--	--	--		9600 / 1217		SERVING LINE LOADCENTER	3	100	10
11	20	1	COOLER EVAPORATOR			9600 / 300	--	--	--	12
13	20	1	COOLER DOOR HEATER/LIGHTS	2500 / 1920			STACKED WASHER/DRYER	2	30	14
15	20	1	FREEZER DOOR HEATER/LIGHTS		2500 / 1920		--	--	--	16
17	20	1	PRESSURE RELIEF PORTS			1612 / 1200	HEATED CABINET	2	20	18
19	20	1	TEMPERATURE ALARMS	1612 / 1200			--	--	--	20
21	20	1	RCP-WEST CONVENIENCE		*500 / 540		CONVECTION OVEN	1	20	22
23	20	1	RCP-OFFICE			-- / 1000	SHUNT-TRIP DEVICE	--	--	24
25	20	1	RCP-LOCKERS/RR/JANITOR	*500 / 720			CONVECTION OVEN	1	20	26
27	20	1	RCP-CONV. KITCHEN SOUTH		-- / 720		SHUNT-TRIP DEVICE	--	--	28
29	20	1	RCP-KITCHEN WORK COUNTER			*500 / *1000	CONVECTION STEAMER	1	20	30
31	20	1	RCP-KITCHEN WORK COUNTER	-- / *1000			SHUNT-TRIP DEVICE	--	--	32
33	20	1	RCP-KITCHEN WORK COUNTER		*500 / *1000		CONVECTION STEAMER	1	20	34
35	20	1	RCP-KITCHEN WORK COUNTER			-- / *1000	SHUNT-TRIP DEVICE	--	--	36
37	20	1	POS SYSTEM SERVER	*500 / 1500			BRAISING PAN	1	20	38
39	20	1	RCP-AIR SCREEN		-- / 612		SHUNT-TRIP DEVICE	--	--	40
41	20	1	RCP-20QT MIXER			1920 / 1920	RCP-HEATED CABINET	1	20	42
43	20	1	ANSUL SYSTEM **	1200 / 120			HOOD LIGHTS	1	20	44
45	20	1	RCP-REFRIGERATOR		1200 / 864		HOOD SENSOR	1	20	46
47	20	1	RCP-POS			1200 / 1200	RCP-ICE CREAM	1	20	48
49	20	1	RCP-MILK	1200 / 1200			RCP-HOT WATER DISPENSER	1	20	50
51	20	1	RCP-MILK		*500 / 1200		RCP-REMOTE FILTER SYSTEM	1	20	52
53	20	1	RCP-ICE CREAM			1920 / 1200	HEATED CABINET	2	20	54
55	20	1	RCP-REFRIGERATOR	1920 / 864			--	--	--	56
57	--	--	--		*500 / 288		ROLLING DOOR	1	20	58
59	15	3	KEF-2			*500 / 288	ROLLING DOOR	1	20	60
61	--	--	--	*500 / 288			SPARE	1	20	62
63	20	1	WATER HEATER AND PUMP		*500 / *500		SPARE	1	20	64
65	20	1	SPARE			*500 / *500	SPARE	1	20	66
67	20	1	SPARE	*500 / *500			SPARE	1	20	68
69	20	1	SPARE		*500 / *500		SPARE	1	20	70
71	20	1	SPARE			*500 / *500	SPARE	1	20	72
73	20	1	SPACE	-- / --			SPACE	1	20	74
75	20	1	SPACE		-- / --		SPACE	1	20	76
77	20	1	SPACE			-- / --	SPACE	1	20	78
79	20	1	SPACE	-- / --			SPACE	1	20	80
81	20	1	SPACE		-- / --		SPACE	1	20	82
83	20	1	SPACE			-- / --	SPACE	1	20	84
TOTAL CONNECTED LOAD (KVA): 125.0 ESTIMATED DEMAND LOAD (KVA): 118.5			TOTAL	44035	39135	41834	DEMAND LINE AMPS: 241.2			

* ESTIMATED
** THIS BREAKER SHALL BE RED IN COLOR

GENERAL KITCHEN ELECTRICAL NOTES:

A. ALL CONVENIENCE RECEPTACLES WITHIN THE KITCHEN AREA SHALL BE GFCI TYPE. KITCHEN AREA CONVENIENCE RECEPTACLES SERVED BY DROP-CORD SHALL UTILIZE GFCI PROTECTION AT THE BREAKER.

B. VERIFY EXACT ELECTRICAL REQUIREMENTS OF ALL KITCHEN EQUIPMENT WITH FINAL KITCHEN EQUIPMENT SUBMITTAL DATA PRIOR TO RELEASE OF PANELBOARDS 'HK' AND 'LK'. E.C. SHALL PROVIDE ALL CIRCUITS IN ACCORDANCE WITH FINAL KITCHEN EQUIPMENT SUBMITTAL DATA AT NO ADDITIONAL COST TO THE CONTRACT.

C. VERIFY EXACT LOCATION AND QUANTITY OF DEVICES LOCATED UNDER KITCHEN HOOD PRIOR TO RELEASE OF PANEL-BOARD 'LK'. ALL DEVICES LOCATED UNDER HOOD SHALL BE EQUIPPED WITH SHUNT-TRIP TYPE BREAKERS.

D. ALL SHUNT-TRIP DEVICES SHALL BE CONNECTED TO AND CONTROLLED BY THE FIRE SUPPRESSION SYSTEM.

E. E.C. SHALL PROVIDE RACEWAY, CONDUCTORS, AND FINAL CONNECTION TO ALL KITCHEN EQUIPMENT REQUIRING MULTIPLE POINTS OF CONNECTION OR INTERCONNECTION PER FINAL KITCHEN EQUIPMENT SUBMITTALS. PROVIDE ADDITIONAL RACEWAYS AS REQUIRED FOR VENDOR INSTALLATION OF LOW-VOLTAGE AND/OR CONTROL CABLING.

F. E.C. SHALL PROVIDE AND INSTALL ALL DISCONNECT SWITCHES AS DESCRIBED BY KITCHEN EQUIPMENT INSTALLATION DRAWING AS WELL AS THOSE REQUIRED FOR MEANS OF DISCONNECT BY APPLICABLE CODES. DISCONNECT SWITCHES LOCATED IN THE KITCHEN AND/OR DISHWASHING AREAS SHALL BE NEMA 4X.

G. REFER TO E400-E406 FOR DATA, COMMUNICATION, CLOCK, SECURITY & FIRE ALARM DEVICE LOCATIONS & REQUIREMENTS.

SPECIFIC ELECTRICAL NOTES ( ):

1. PROVIDE AND INSTALL A 3P-60A FUSED SAFETY SWITCH FOR REFRIGERATION SYSTEM CONDENSOR ON ROOF ABOVE. COORDINATE EXACT LOCATION AND REQUIREMENTS PRIOR TO ROUGH-IN. SIZE FUSES PER MANUFACTURER'S RECOMMENDATIONS. FEED WITH 4-#6 AND 1-#10 GND IN 1.0" CONDUIT.
2. ROUGH-IN AND MAKE FINAL CONNECTION TO LOADCENTER. COORDINATE EXACT LOCATION AND REQUIREMENTS PRIOR TO ROUGH-IN. FEED WITH 4-#8 AND 1-#8 GND IN 1.25" CONDUIT.
3. ROUGH-IN AND MAKE FINAL CONNECTION TO FREEZER EVAPORATOR. PROVIDE MOTOR RATED SWITCH FOR MEANS OF DISCONNECT IF LOCAL DISCONNECT IS NOT PROVIDED BY MANUFACTURER. COORDINATE EXACT REQUIREMENTS PRIOR TO ROUGH-IN. E.C. SHALL PROVIDE AND INSTALL ALL POWER AND CONTROL CABLING AS REQUIRED. TYPICAL.
4. CONTROL CABLING TO CONDENSOR AND COOLER SYSTEM CONTROLS. TYPICAL.
5. PROVIDE AND INSTALL RECEPTACLE FOR STACKED WASHER/DRYER SYSTEM. VERIFY EXACT REQUIREMENTS INCLUDING NEMA PLUG CONFIGURATION, VOLTAGE, AND AMPERE RATING PRIOR TO GEAR RELEASE. SIZE BREAKER AND FEED PER N.E.C.
6. PROVIDE AND INSTALL A 3P-60A FUSED SAFETY SWITCH WITHIN A NEMA 4X ENCLOSURE. COORDINATE EXACT LOCATION WITH LOCAL A.H.J. SIZE FUSES PER MANUFACTURER'S RECOMMENDATIONS. ROUGH-IN AND MAKE FINAL CONNECTION AS REQUIRED. FEED WITH 4-#8 AND 1-#10 GND IN 1.0" CONDUIT.
7. PROVIDE AND INSTALL A 3P-60A FUSED SAFETY SWITCH WITHIN A NEMA 4X ENCLOSURE. COORDINATE EXACT LOCATION WITH LOCAL A.H.J. SIZE FUSES PER MANUFACTURER'S RECOMMENDATIONS. ROUGH-IN AND MAKE FINAL CONNECTION AS REQUIRED. FEED WITH 4-#6 AND 1-#10 GND IN 1.0" CONDUIT.
8. ROUTE 1.0" CONDUIT FROM EACH P.O.S. REGISTER LOCATION TO THIS POINT FOR DATA.
9. ROUGH-IN AND MAKE FINAL CONNECTION TO AIR SCREEN.
10. ROUTE 1.0" CONDUIT UNDERGROUND TO P.O.S. SERVER LOCATION. SEE NOTE #8, THIS SHEET. TYPICAL. PROVIDE AND INSTALL (2) DATA DROPS AT EACH POS.
11. MAKE ALL NECESSARY CONNECTIONS, INCLUDING SWITCH, FOR ROLLING DOOR. COORDINATE EXACT LOCATION AND ALL REQUIREMENTS PRIOR TO ROUGH-IN. TYPICAL.
12. PROVIDE AND INSTALL A FRACTIONAL HORSEPOWER MANUAL MOTOR STARTER IN A NEMA 1 ENCLOSURE. COORDINATE EXACT LOCATION AND ALL REQUIREMENTS WITH MECHANICAL/PLUMBING AND CONTROLS CONTRACTOR PRIOR TO ROUGH-IN. PROVIDE 0.75" CONDUIT AND MAKE ALL NECESSARY CONNECTIONS FOR INTERLOCK. TYPICAL.

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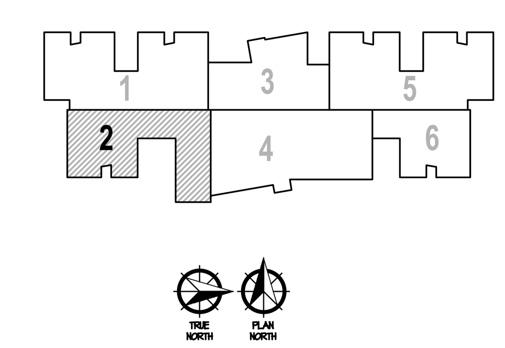

KEY PLAN

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03.06.18

ISSUE DATE

ENLARGED KITCHEN POWER PLAN

SHEET TITLE

E307

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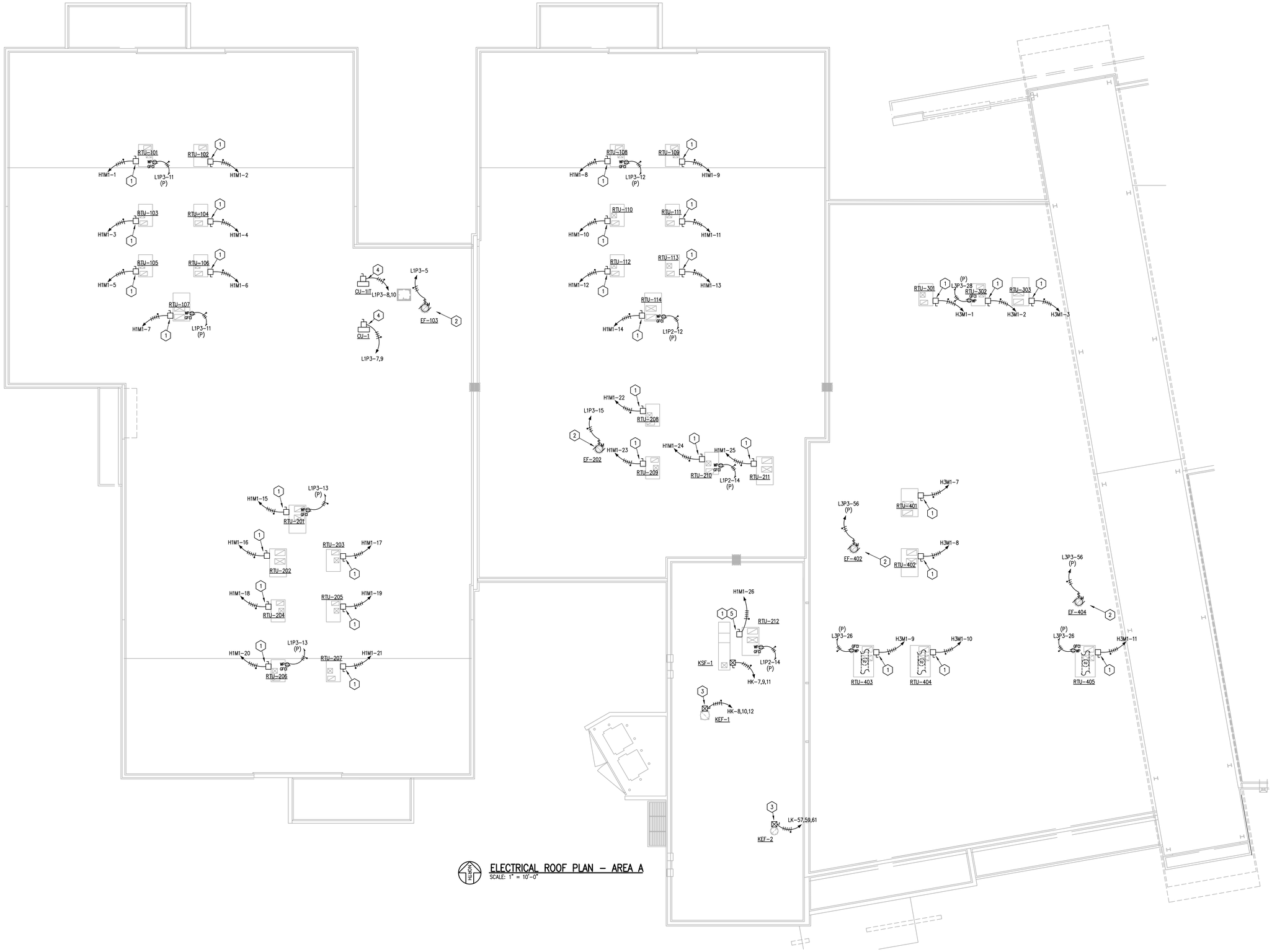

ELECTRICAL ROOF PLAN – AREA A

SCALE: 1" = 10'-0"

GENERAL ELECTRICAL NOTES:

A. DO NOT ROUTE CONDUIT EXPOSED ON ROOF. ALL CONDUITS SHALL BE ROUTED WITHIN THE BUILDING ENVELOPE TO THE MAXIMUM EXTENT POSSIBLE.

B. ALL ROOF-TOP CONVENIENCE RECEPTACLES SHALL BE PROVIDED WITH WEATHERPROOF"IN-USE" COVERS AND BE CIRCUITED WITH #10 AWG MINIMUM.

SPECIFIC ELECTRICAL NOTES (⬡):

1. PROVIDE AND INSTALL A 3P-30A FUSED SAFETY SWITCH WITHIN A NEMA 3R ENCLOSURE. SIZE FUSES PER MANUFACTURER'S RECOMMENDATIONS. ROUGH-IN AND MAKE FINAL CONNECTIONS AS REQUIRED. TYPICAL.

2. PROVIDE AND INSTALL A FRACTIONAL HORSEPOWER MANUAL MOTOR STARTER IN A NEMA 3R ENCLOSURE. COORDINATE EXACT LOCATION AND ALL REQUIREMENTS WITH MECHANICAL AND CONTROLS CONTRACTORS PRIOR TO ROUGH-IN. PROVIDE 0.75" CONDUIT AND MAKE ALL NECESSARY CONNECTIONS FOR INTERLOCK. TYPICAL.

3. PROVIDE AND INSTALL A NEMA SIZE 0 STARTER/FUSED DISCONNECT IN A NEMA 3R ENCLOSURE. PROVIDE DUAL ELEMENT TIME DELAY FUSES SIZED PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE EXACT LOCATION AND ALL REQUIREMENTS WITH MECHANICAL AND CONTROLS CONTRACTORS PRIOR TO ROUGH-IN. PROVIDE A 0.75" CONDUIT WITH PULL STRING FOR CONTROLS. TYPICAL.

4. PROVIDE AND INSTALL A 30 AMP 1ø DISCONNECT IN A NEMA 3R ENCLOSURE. PROVIDE DUAL ELEMENT TIME DELAY FUSES SIZED PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE EXACT LOCATION AND ALL REQUIREMENTS WITH MECHANICAL AND CONTROLS CONTRACTORS PRIOR TO ROUGH-IN. PROVIDE A 0.75" CONDUIT WITH PULL STRING FOR CONTROLS. TYPICAL.

5. PROVIDE AND INSTALL A SMOKE DETECTOR IN THE RETURN SIDE OF UNIT. COORDINATE EXACT LOCATION AND ALL REQUIREMENTS PRIOR TO ROUGH-IN. PROVIDE A 0.75" CONDUIT WITH PULL STRING FOR WIRING TO FIRE ALARM. COORDINATE WITH MECHANICAL AND FIRE ALARM CONTRACTORS. TYPICAL.

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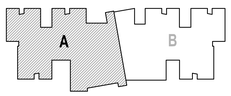

TRUE NORTH PLAN NORTH

KEY PLAN

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ELECTRICAL ROOF PLAN - AREA A

E308

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Plot Scale: 1:1
Source: E308.DWG

ELECTRICAL ROOF PLAN – AREA B

SCALE: 1" = 10'-0"

GENERAL ELECTRICAL NOTES:

A. DO NOT ROUTE CONDUIT EXPOSED ON ROOF. ALL CONDUITS SHALL BE ROUTED WITHIN THE BUILDING ENVELOPE TO THE MAXIMUM EXTENT POSSIBLE.

B. ALL ROOF-TOP CONVENIENCE RECEPTACLES SHALL BE PROVIDED WITH WEATHERPROOF "IN-USE" COVERS AND BE CIRCUITED WITH #10 AWG MINIMUM.

SPECIFIC ELECTRICAL NOTES ( ):

1. PROVIDE AND INSTALL A 3P-30A FUSED SAFETY SWITCH WITHIN A NEMA 3R ENCLOSURE. SIZE FUSES PER MANUFACTURER'S RECOMMENDATIONS. ROUGH-IN AND MAKE FINAL CONNECTIONS AS REQUIRED. TYPICAL.

2. PROVIDE AND INSTALL A 3P-100A FUSED SAFETY SWITCH WITHIN A NEMA 3R ENCLOSURE. SIZE FUSES PER MANUFACTURER'S RECOMMENDATIONS. ROUGH-IN AND MAKE FINAL CONNECTIONS AS REQUIRED. TYPICAL.

3. PROVIDE AND INSTALL A FRACTIONAL HORSEPOWER MANUAL MOTOR STARTER IN A NEMA 3R ENCLOSURE. COORDINATE EXACT LOCATION AND ALL REQUIREMENTS WITH MECHANICAL AND CONTROLS CONTRACTORS PRIOR TO ROUGH-IN. PROVIDE 0.75" CONDUIT AND MAKE ALL NECESSARY CONNECTIONS FOR INTERLOCK. TYPICAL.

4. PROVIDE AND INSTALL A 30 AMP 1ø DISCONNECT IN A NEMA 3R ENCLOSURE. PROVIDE DUAL ELEMENT TIME DELAY FUSES SIZED PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE EXACT LOCATION AND ALL REQUIREMENTS WITH MECHANICAL AND CONTROLS CONTRACTORS PRIOR TO ROUGH-IN. PROVIDE A 0.75" CONDUIT WITH PULL STRING FOR CONTROLS. TYPICAL.

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ELECTRICAL ROOF PLAN - AREA B

E309

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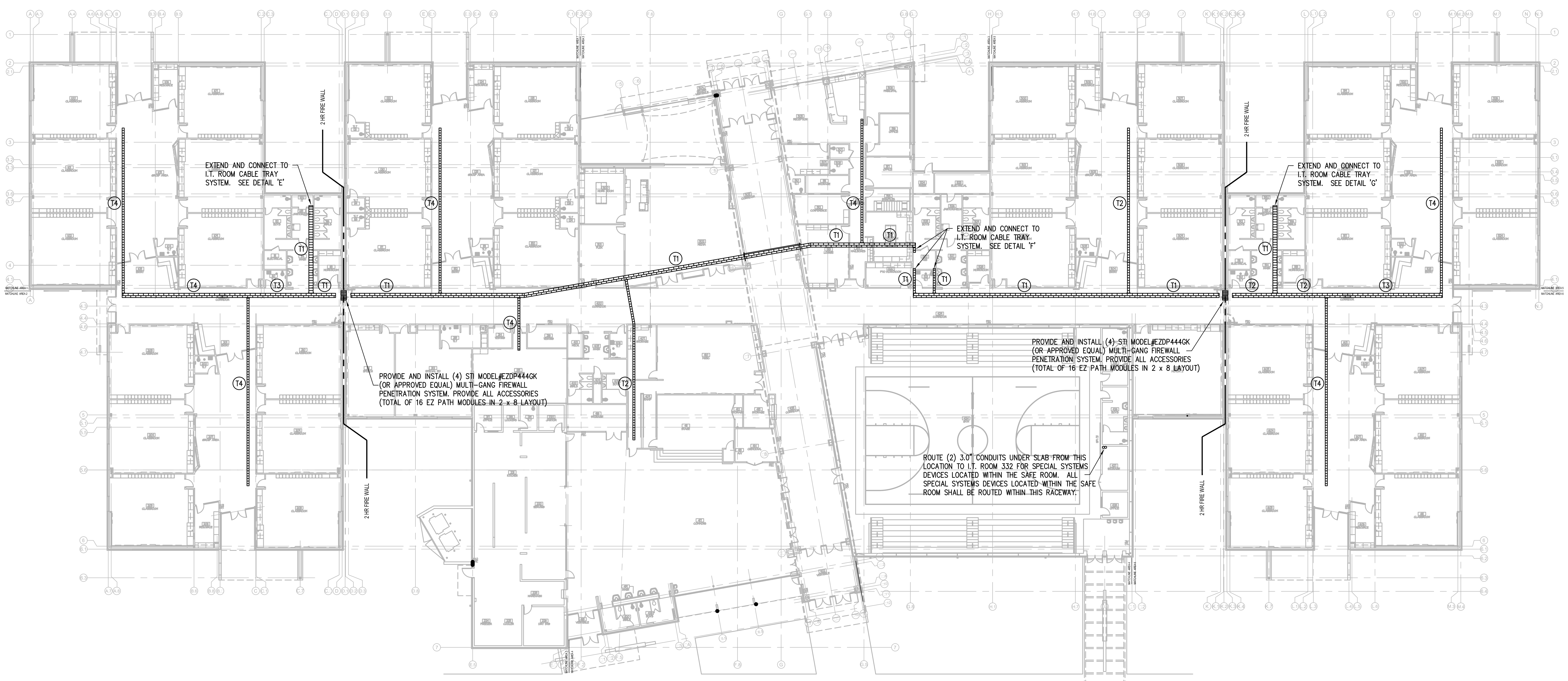


A SPECIAL SYSTEMS CABLE MANAGEMENT PLAN
SCALE: 1" = 20'-0"

CABLE TRAY SIZE SCHEDULE

DESIGNATION	SIZE (WIDTH x DEPTH) LENGTH AS INDICATED
T1	24" x 6"
T2	24" x 4"
T3	16" x 4" (x2)
T4	16" x 4"

MINIMUM SIZES INDICATED

PATCH PANEL/KEYSTONE COLOR

SYSTEM	COLOR
WAP DROPS	YELLOW
AC CONTROLS DROPS	BLACK
INTERCOM	YELLOW
CLOCK	WHITE
INTRUSION	GREEN
ACCESS CONTROL	GREEN
VID. SURVEILLANCE	GREEN
FIRE ALARM	RED
CPU/PRINTER/NETWORK	BLUE
PHONE	WHITE

APPLY THESE COLORS TO PATCH CORDS AND KEYSTONES

SPECIAL SYSTEMS CABLE COLORS

SYSTEM	COLOR
DATA	BLUE
VOIP	WHITE
INTERCOM	YELLOW
CLOCK	WHITE
INTRUSION	GREY/WHITE
ACCESS CONTROL	GREY/BLACK
VID. SURVEILLANCE	GREEN
FIRE ALARM	RED
0-10V DIMMIING	PURPLE/GREY
SPEAKER CABLE	BLACK

GENERAL SPECIAL SYSTEMS/CABLE MANAGEMENT NOTES:

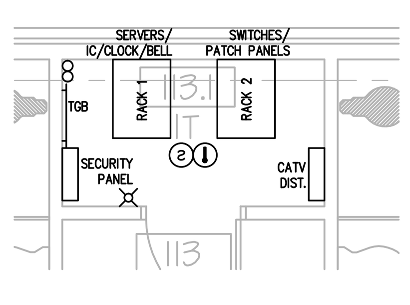
A. CONTRACTOR SHALL PROVIDE AND INSTALL B-LINE FLEXTRAY BASKET TYPE CABLE TRAY (SIZED AS INDICATED) SUSPENDED FROM STRUCTURE ABOVE CEILING IN CONFIGURATION AS INDICATED. PROVIDE ALL ACCESSORIES, SUPPORTS, AND FITTINGS AS REQUIRED. COORDINATE EXACT ROUTING WITH ARCHITECTURAL CEILING PLAN, ELEVATIONS, AND FINISH SCHEDULES. ALL PORTIONS OF THE CABLE TRAY SYSTEM AND ACCESSORIES VISIBLE TO VIEW SHALL BE BLACK POWDER COAT FINISH. PROVIDE RADIUS CONTROL DEVICES FOR ALL DROPS FROM CABLE TRAY SYSTEM WITH RADIUS DETERMINED BY CABLE MANUFACTURER'S RECOMMENDATIONS.

B. ALL DATA, FIRE ALARM, INTERCOM, CLOCK, BELL, VIDEO SURVEILLANCE, AND SECURITY SYSTEM CABLING SHALL BE ROUTED WITHIN THE CABLE TRAY SYSTEM TO THE MAXIMUM EXTENT POSSIBLE. CABLES ROUTED OUTSIDE THE CABLE TRAY SYSTEM SHALL UTILIZE IRREGULARLY SPACED J-HOOKS MOUNTED APPROXIMATELY 4' O.C. J-HOOKS SHALL BE RATED FOR USE WITH CABLING WHICH THEY SERVE AND SHALL NOT EXCEED 40% OF THE MANUFACTURER'S RATED CAPACITY.

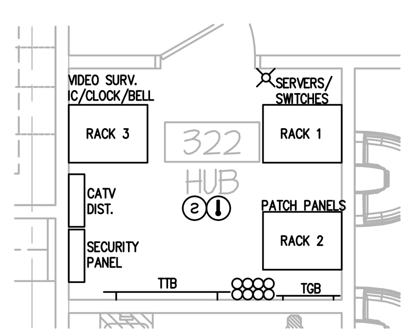
C. E.C. SHALL PROVIDE SUBMITTAL/SHOP DRAWINGS OF ALL CABLE TRAY/CABLE SUPPORT SYSTEM COMPONENTS FOR REVIEW AND APPROVAL PRIOR TO RELEASE. SHOP DRAWING SHALL INDICATE APPROXIMATE ROUTING AND MEANS OF SUPPORT FOR ALL SYSTEMS CABLING INCLUDING CABLING INSTALLED OUTSIDE OF THE CABLE TRAY SYSTEM.

SPECIFIC SPECIAL SYSTEMS NOTES (⬡):

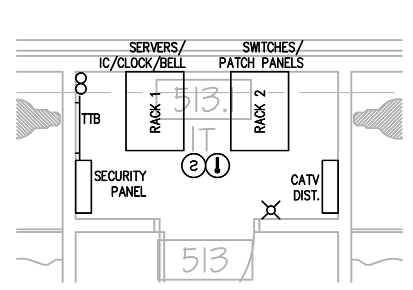
1. EXTEND AND CONNECT TO I.T. ROOM CABLE TRAY SYSTEMS AS REQUIRED. TYPICAL.
2. THIS SECTION OF CABLE TRAY SYSTEM TO BE INSTALLED IN SLOPED MANNER TO MAINTAIN PARALLEL AND PERPENDICULAR RELATIONSHIP WITH BUILDING STRUCTURE AND FINISHES. COORDINATE EXACT HEIGHT AND ANGLE OF SLOPE WITH ARCHITECTURAL PRIOR TO ROUGH-IN. PROVIDE ALL ACCESSORIES AND/OR DEVICES AS REQUIRED TO FACILITATE SLOPED INSTALLATION.



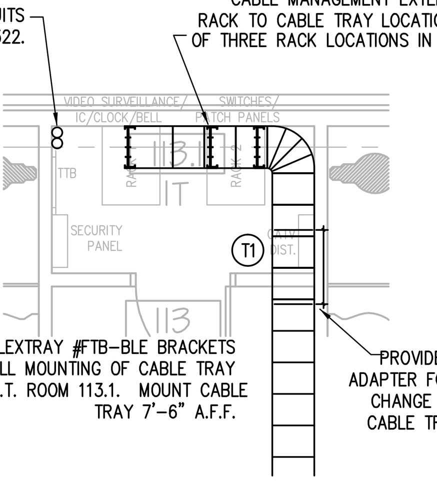
B ENLARGED I.T. ROOM 113.1 EQUIPMENT LAYOUT PLAN
SCALE: 1/8" = 1'-0"
REF: SHEET E300 FOR POWER REQUIREMENTS



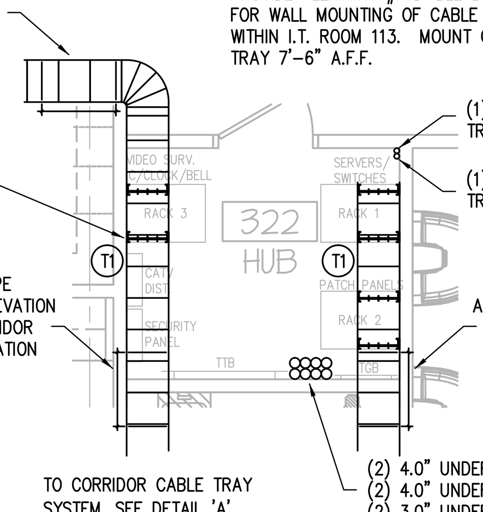
C ENLARGED HUB ROOM 322 EQUIPMENT LAYOUT PLAN
SCALE: 1/8" = 1'-0"
REF: SHEET E300 FOR POWER REQUIREMENTS



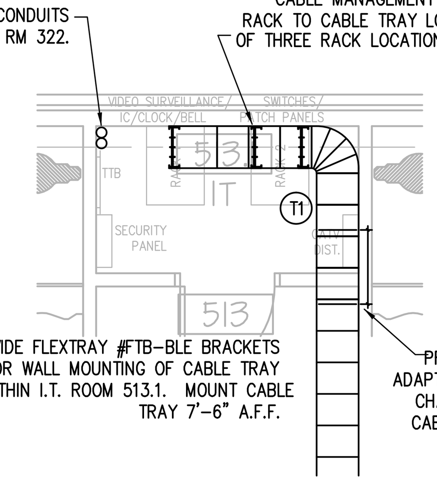
D ENLARGED I.T. ROOM 513.1 EQUIPMENT LAYOUT PLAN
SCALE: 1/8" = 1'-0"
REF: SHEET E300 FOR POWER REQUIREMENTS



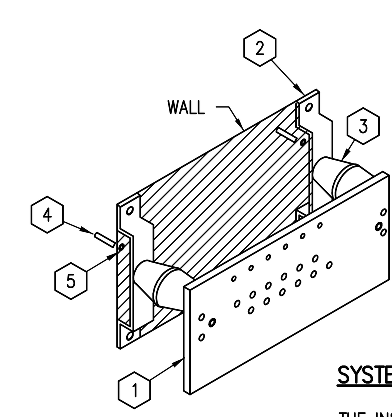
E ENLARGED I.T. ROOM 113 CABLE MANAGEMENT PLAN
SCALE: 1/8" = 1'-0"



F ENLARGED HUB ROOM 322 CABLE MANAGEMENT PLAN
SCALE: 1/8" = 1'-0"



G ENLARGED I.T. ROOM 513.1 CABLE MANAGEMENT PLAN
SCALE: 1/8" = 1'-0"



SPECIFIC GROUND BAR NOTES:

1. GROUND BAR
2. WALL MOUNTED BRACKET
3. ISOLATORS
4. 5/8 – 11 X 1" H.H.C.S.
5. 5/8 LOCK WASHER

NOTES (THIS DETAIL):

1. SELECT BOLT LENGTH TO PROVIDE A MINIMUM OF TWO EXPOSED THREADS.
2. BURNISH MOUNTING SURFACE TO REMOVE PAINT IN THE AREA OF LUG CONTACT.
3. APPLY ANTI-OXIDANT COMPOUND TO MATING SURFACE OF LUG AND WIPE CLEAN EXCESS COMPOUND.
4. USE SOLID COPPER WIRE AND MECHANICAL 2-HOLE LUG FOR ALL EXTERIOR GROUNDING.
5. #6 OR #2 GRN TO GROUND BAR OR FLAT SURFACE.
6. PROVIDE NUMBER AND SIZE OF CONNECTORS AND GROUND CONDUCTORS AS REQUIRED FOR EACH GROUND BAR LOCATION. COORDINATE WITH PLANS.

SYSTEM CONFIGURATION:

THE INSULATED COPPER GROUND BUS BAR WILL BE AT LEAST 24" L x 4" H x 1/4" D. WITH AT LEAST 12-9/32" D ATTACHMENT HOLES AND SIX 6-32 TAPPED ATTACHMENT HOLES. THE BUS BAR WILL BE MOUNTED 4" OFF THE WALL.

PROVIDE AND INSTALL QTY. (1) INSULATED GROUND WIRE CONDUCTORS SIZED #4/0 AWG. CONNECT CONDUCTORS FROM GROUND BAR TO GROUND SYSTEM. MOUNTING HEIGHT TO BE 48" AFF.

H DATA/COMM GROUNDING BAR DETAIL (TGB)
NO SCALE
TYPICAL OF (4) LOCATIONS

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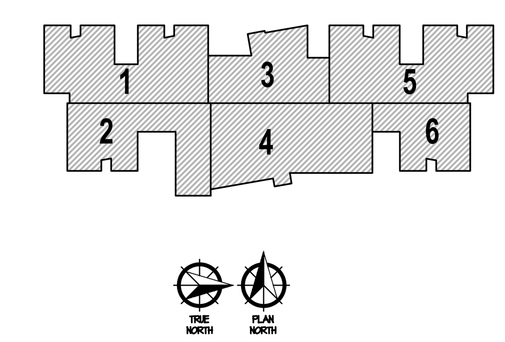

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OVERALL SPECIAL SYSTEMS CABLE MANAGEMENT PLAN

E400
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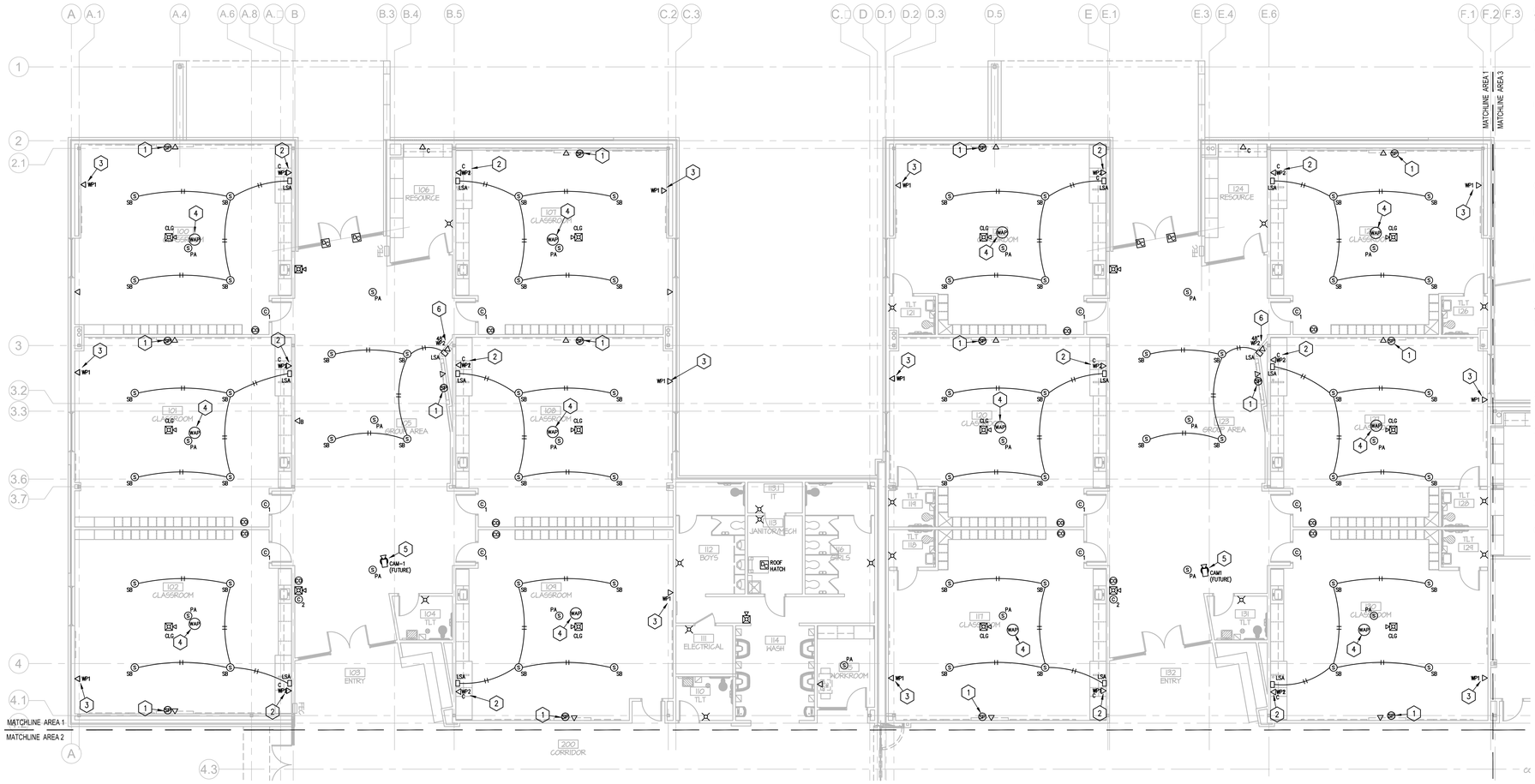

SPECIAL SYSTEMS FLOOR PLAN – AREA 1

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

TRUE NORTH — PLAN NORTH

GENERAL SPECIAL SYSTEMS NOTES:

A. COORDINATE EXACT LOCATION OF ALL DEVICES WITH ARCHITECTURAL AND MILLWORK ELEVATIONS PRIOR TO ROUGH-IN. IF EXACT LOCATION CANNOT BE DETERMINED, REQUEST DIRECTION FROM A/E PRIOR TO ROUGH-IN.

B. ALL AUDIO VIDEO, INTERCOM, CLOCK, BELL, SECURITY, AND VIDEO SURVEILLANCE SYSTEM COMPONENTS SHALL BE PROVIDED AND INSTALLED BY THE E.C. UNLESS SPECIFICALLY NOTED OTHERWISE.

B. ALL DATA, FIRE ALARM, INTERCOM, CLOCK, BELL, AND SECURITY SYSTEM CABLING SHALL BE ROUTED WITHIN THE CABLE TRAY SYSTEM TO THE MAXIMUM EXTENT POSSIBLE. CABLES ROUTED OUTSIDE THE CABLE TRAY SYSTEM SHALL UTILIZE IRREGULARLY SPACED J-HOOKS MOUNTED APPROXIMATELY 4' O.C. J-HOOKS SHALL BE RATED FOR USE WITH CABLING WHICH THEY SERVE AND SHALL NOT EXCEED 40% OF THE MANUFACTURER'S RATED CAPACITY. CABLING FOR ALL SYSTEMS SHALL BE SUPPORTED FROM STRUCTURE ABOVE USING DEDICATED SUPPORT COMPONENTS. DO NOT LAY CABLING OF ANY SYSTEM ON CEILING SYSTEM COMPONENTS.

C. ALL DATA DROP LOCATIONS SHALL INCLUDE TWO (2) DATA DROPS UNLESS SPECIFICALLY NOTED OTHERWISE.

D. CAMERA LOCATIONS NOTED AS 'FUTURE' SHALL BE PROVIDED WITH DATA CABLE TO VIDEO SURVEILLANCE SYSTEM RACK ONLY.

E. CLASSROOM CLOCKS SHALL BE MOUNTED AT 8'-0" TO CENTER, GROUP AREA AND CORRIDOR SHALL BE MOUNTED AT 9'-6" TO CENTER.

F. PROVIDE AND INSTALL CARBON MONOXIDE DETECTION IN EACH CLASSROOM AND GROUP AREA TO ALARM VIA FIRE ALARM SYSTEM.

SPECIFIC ELECTRICAL NOTES (⬡):

1. CONTRACTOR SHALL COORDINATE ROUGH-IN LOCATIONS FOR POWER AND DATA FOR OWNER PROVIDED SMART PANEL (SP). MOCK-UP ELEVATION OF TEACHING WALL TO SHOW ALL ROUGH-IN THAT IS REQUIRED. PROVIDE RECESSED ENCLOSURE BEHIND SMART PANEL, EQUAL TO ARLINGTON TVB713 AND SUBMIT FOR APPROVAL. STUB 1.25" CONDUIT ABOVE CEILING WITH PLASTIC BUSHING. PROVIDE AND INSTALL ALL CABLING FROM SMART PANEL TO WP1. SEE E400 SERIES DRAWINGS FOR DATA LOCATIONS. TYPICAL.

2. APPROXIMATE LOCATION OF "WP2" AND CLASSROOM SOUND SYSTEM. ALL DEVICES AND CABLING TO BE PROVIDED AND TERMINATED BY E.C. COORDINATE INSTALLATION WITH ARCHITECTURAL AND MILLWORK ELEVATIONS PRIOR TO ROUGH-IN.

3. APPROXIMATE LOCATION OF "WP1" WALLPLATE LOCATED AT TEACHERS DESK LOCATION. ALL DEVICES AND CABLING TO BE PROVIDED AND TERMINATED BY E.C. COORDINATE INSTALLATION WITH ARCHITECTURAL AND MILLWORK ELEVATIONS PRIOR TO ROUGH-IN.

4. PROVIDE AND INSTALL DATA DROP IN CEILING AT CENTER OF ROOM WITH 10'-0" COILED SLACK ABOVE CEILING FOR OWNER PROVIDED WIRELESS ACCESS POINT. TYPICAL.

5. PROVIDE AND INSTALL DATA DROP WITH 10'-0" COILED SLACK FOR VIDEO SURVEILLANCE CAMERA LOCATION. TYPICAL.

6. PROVIDE & INSTALL DATA WALL PLATE & CALBLING AT 48" INSIDE WALL "NOOK".

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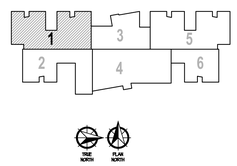
MORROW ELEMENTARY

OWASSO PUBLIC SCHOOLS

OWASSO, OK
2018

PROJECT



KEY PLAN

REVISIONS

03.06.18

ISSUE DATE

1507
SES
JJ

PROJECT NO
DRAWN BY
CHK'D BY

SPECIAL SYSTEMS FLOOR PLAN - AREA 1

E401

SHEET TITLE

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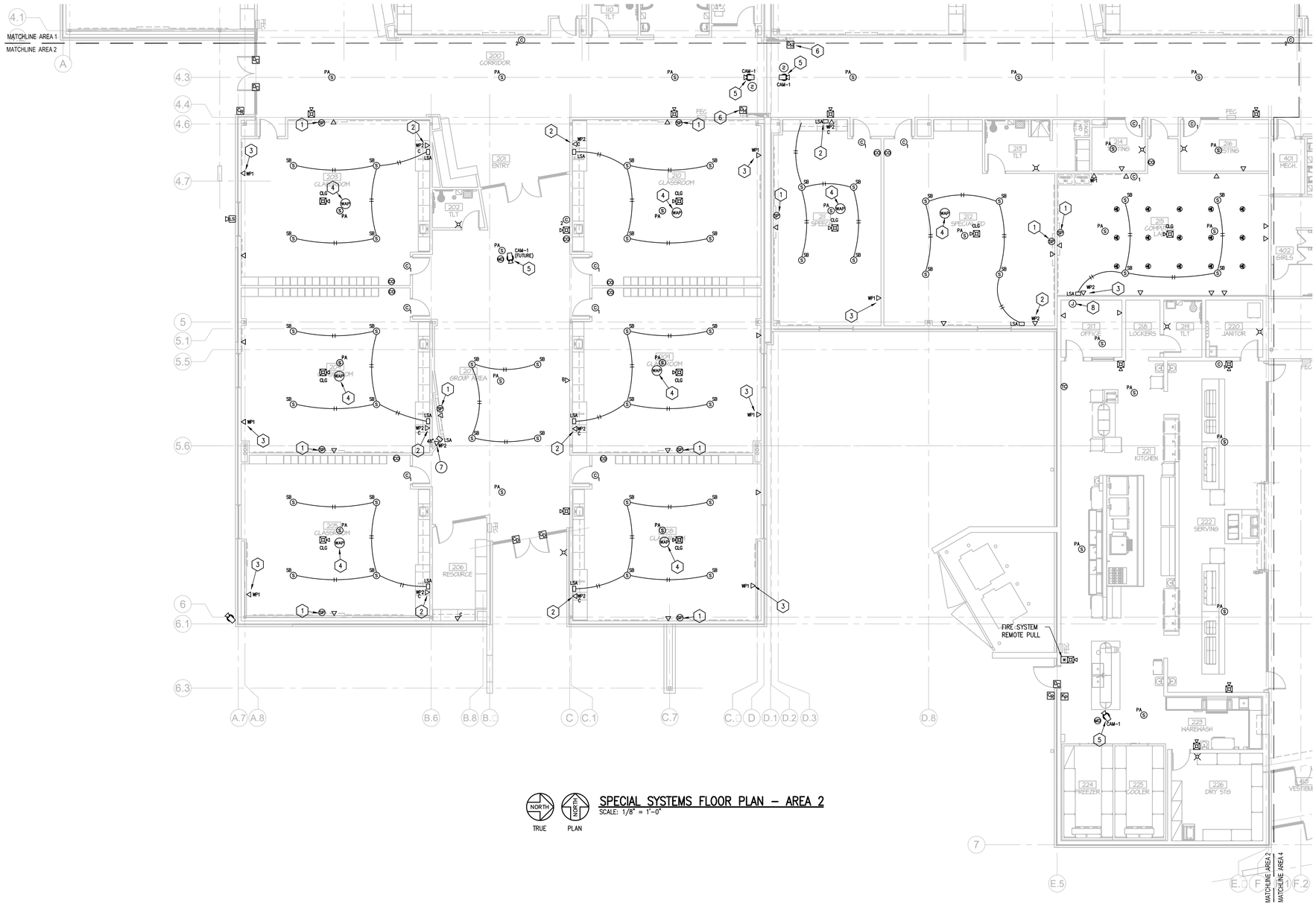

NORTH TRUE

NORTH PLAN

SPECIAL SYSTEMS FLOOR PLAN – AREA 2

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

GENERAL SPECIAL SYSTEMS NOTES:

A. COORDINATE EXACT LOCATION OF ALL DEVICES WITH ARCHITECTURAL AND MILLWORK ELEVATIONS PRIOR TO ROUGH-IN. IF EXACT LOCATION CANNOT BE DETERMINED, REQUEST DIRECTION FROM A/E PRIOR TO ROUGH-IN.

B. ALL AUDIO VIDEO, INTERCOM, CLOCK, BELL, SECURITY, AND VIDEO SURVEILLANCE SYSTEM COMPONENTS SHALL BE PROVIDED AND INSTALLED BY THE E.C. UNLESS SPECIFICALLY NOTED OTHERWISE.

B. ALL DATA, FIRE ALARM, INTERCOM, CLOCK, BELL, AND SECURITY SYSTEM CABLING SHALL BE ROUTED WITHIN THE CABLE TRAY SYSTEM TO THE MAXIMUM EXTENT POSSIBLE. CABLES ROUTED OUTSIDE THE CABLE TRAY SYSTEM SHALL UTILIZE IRREGULARLY SPACED J-HOOKS MOUNTED APPROXIMATELY 4' O.C. J-HOOKS SHALL BE RATED FOR USE WITH CABLING WHICH THEY SERVE AND SHALL NOT EXCEED 40% OF THE MANUFACTURER'S RATED CAPACITY. CABLING FOR ALL SYSTEMS SHALL BE SUPPORTED FROM STRUCTURE ABOVE USING DEDICATED SUPPORT COMPONENTS. DO NOT LAY CABLING OF ANY SYSTEM ON CEILING SYSTEM COMPONENTS.

C. ALL DATA DROP LOCATIONS SHALL INCLUDE TWO (2) DATA DROPS UNLESS SPECIFICALLY NOTED OTHERWISE.

D. CAMERA LOCATIONS NOTED AS 'FUTURE' SHALL BE PROVIDED WITH DATA CABLE TO VIDEO SURVEILLANCE SYSTEM RACK ONLY.

E. CLASSROOM CLOCKS SHALL BE MOUNTED AT 8'-0" TO CENTER, GROUP AREA AND CORRIDOR SHALL BE MOUNTED AT 9'-6" TO CENTER.

F. PROVIDE AND INSTALL CARBON MONOXIDE DETECTION IN EACH CLASSROOM AND GROUP AREA TO ALARM VIA FIRE ALARM SYSTEM.

SPECIFIC ELECTRICAL NOTES (⬡):

1. CONTRACTOR SHALL COORDINATE ROUGH-IN LOCATIONS FOR POWER AND DATA FOR OWNER PROVIDED SMART PANEL (SP). MOCK-UP ELEVATION OF TEACHING WALL TO SHOW ALL ROUGH-IN THAT IS REQUIRED. PROVIDE RECESSED ENCLOSURE BEHIND SMART PANEL, EQUAL TO ARLINGTON TVB713 AND SUBMIT FOR APPROVAL. STUB 1.25" CONDUIT ABOVE CEILING WITH PLASTIC BUSHING. PROVIDE AND INSTALL ALL CABLING FROM SMART PANEL TO WP1. SEE E400 SERIES DRAWINGS FOR DATA LOCATIONS. TYPICAL.

2. APPROXIMATE LOCATION OF "WP2" AND CLASSROOM SOUND SYSTEM. ALL DEVICES AND CABLING TO BE PROVIDED AND TERMINATED BY E.C. COORDINATE INSTALLATION WITH ARCHITECTURAL AND MILLWORK ELEVATIONS PRIOR TO ROUGH-IN.

   APPROXIMATE LOCATION OF "WP1" WALLPLATE LOCATED AT TEACHERS DESK LOCATION.

3. ALL DEVICES AND CABLING TO BE PROVIDED AND TERMINATED BY E.C. COORDINATE INSTALLATION WITH ARCHITECTURAL AND MILLWORK ELEVATIONS PRIOR TO ROUGH-IN.

4. PROVIDE AND INSTALL DATA DROP IN CEILING AT CENTER OF ROOM WTH 10'-0" COILED SLACK ABOVE CEILING FOR OWNER PROVIDED WIRELESS ACCESS POINT. TYPICAL.

5. PROVIDE AND INSTALL DATA DROP WITH 10'-0" COILED SLACK FOR VIDEO SURVEILLANCE CAMERA LOCATION.

6. PROVIDE AND INSTALL MAGNETIC DOOR HOLD-OPEND DEVICE. PROVIDE 120V POWER AND CONNECTION TO FIRE ALARM SYSTEM AS REQUIRED.

7. PROVIDE & INSTALL DATA WALL PLATE & CALBLING AT 48" INSIDE WALL "NOOK".

8. ROUTE 1.0" CONDUIT FROM EACH P.O.S. REGISTER LOCATION TO THIS POINT AND PROVIDE ALL DATA CABLING AS REQUIRED FOR P.O.S.

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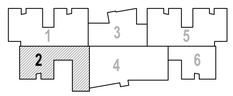
OWASSO PUBLIC SCHOOLS

OWASSO, OK
2018

PROJECT



TRUE NORTH PLAN NORTH

KEY PLAN

REVISIONS

03.06.18

ISSUE DATE

150T
NES
11

PROJECT NO
DRAWN BY
CHK'D BY

SPECIAL SYSTEMS FLOOR PLAN - AREA 2

E402

SHEET TITLE

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Plot Date: 3/6/2018
Journal: SCHOOL

NORTH TRUE NORTH PLAN

SPECIAL SYSTEMS FLOOR PLAN – AREA 3

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

GENERAL SPECIAL SYSTEMS NOTES:

A. COORDINATE EXACT LOCATION OF ALL DEVICES WITH ARCHITECTURAL AND MILLWORK ELEVATIONS PRIOR TO ROUGH-IN. IF EXACT LOCATION CANNOT BE DETERMINED, REQUEST DIRECTION FROM A/E PRIOR TO ROUGH-IN.

B. ALL AUDIO VIDEO, INTERCOM, CLOCK, BELL, SECURITY, AND VIDEO SURVEILLANCE SYSTEM COMPONENTS SHALL BE PROVIDED AND INSTALLED BY THE E.C. UNLESS SPECIFICALLY NOTED OTHERWISE.

B. ALL DATA, FIRE ALARM, INTERCOM, CLOCK, BELL, AND SECURITY SYSTEM CABLING SHALL BE ROUTED WITHIN THE CABLE TRAY SYSTEM TO THE MAXIMUM EXTENT POSSIBLE. CABLES ROUTED OUTSIDE THE CABLE TRAY SYSTEM SHALL UTILIZE IRREGULARLY SPACED J-HOOKS MOUNTED APPROXIMATELY 4' O.C. J-HOOKS SHALL BE RATED FOR USE WITH CABLING WHICH THEY SERVE AND SHALL NOT EXCEED 40% OF THE MANUFACTURER'S RATED CAPACITY. CABLING FOR ALL SYSTEMS SHALL BE SUPPORTED FROM STRUCTURE ABOVE USING DEDICATED SUPPORT COMPONENTS. DO NOT LAY CABLING OF ANY SYSTEM ON CEILING SYSTEM COMPONENTS.

C. ALL DATA DROP LOCATIONS SHALL INCLUDE TWO (2) DATA DROPS UNLESS SPECIFICALLY NOTED OTHERWISE.

D. CAMERA LOCATIONS NOTED AS "FUTURE" SHALL BE PROVIDED WITH DATA CABLE TO VIDEO SURVEILLANCE SYSTEM RACK ONLY.

E. CLASSROOM CLOCKS SHALL BE MOUNTED AT 8'-0" TO CENTER, GROUP AREA AND CORRIDOR SHALL BE MOUNTED AT 9'-6" TO CENTER.

F. PROVIDE AND INSTALL CARBON MONOXIDE DETECTION IN EACH CLASSROOM AND GROUP AREA TO ALARM VIA FIRE ALARM SYSTEM.

SPECIFIC ELECTRICAL NOTES (1):

1. CONTRACTOR SHALL COORDINATE ROUGH-IN LOCATIONS FOR POWER AND DATA FOR OWNER PROVIDED SMART PANEL (SP). MOCK-UP ELEVATION OF TEACHING WALL TO SHOW ALL ROUGH-IN THAT IS REQUIRED. PROVIDE RECESSED ENCLOSURE BEHIND SMART PANEL, EQUAL TO ARLINGTON TVB713 AND SUBMIT FOR APPROVAL. STUB 1.25" CONDUIT ABOVE CEILING WITH PLASTIC BUSHING. PROVIDE AND INSTALL ALL CABLING FROM SMART PANEL TO WP1. SEE E400 SERIES DRAWINGS FOR DATA LOCATIONS. TYPICAL.

2. CONTRACTOR SHALL COORDINATE ROUGH-IN LOCATION FOR POWER AND DATA FOR OWNER PROVIDED SMART PANEL (SP). PROVIDE RECESSED ENCLOSURE BEHIND SMART PANEL, EQUAL TO ARLINGTON TVB713 AND SUBMIT FOR APPROVAL. STUB 1.25" CONDUIT ABOVE CEILING WITH PLASTIC BUSHING. PROVIDE AND INSTALL ALL CABLING FROM SMART PANEL TO WP1. SEE E400 SERIES DRAWINGS FOR DATA LOCATIONS. TYPICAL.

3. APPROXIMATE LOCATION OF "WP1' AV SYSTEM WALLPLATE LOCATED AT TEACHERS DESK LOCATION. ALL DEVICES AND CABLING TO BE PROVIDED AND TERMINATED BY E.C. COORDINATE INSTALLATION WITH ARCHITECTURAL AND MILLWORK ELEVATIONS PRIOR TO ROUGH-IN.

4. PROVIDE AND INSTALL DATA DROP IN CEILING AT CENTER OF ROOM WTH 10'-0" COILED SLACK ABOVE CEILING FOR OWNER PROVIDED WIRELESS ACCESS POINT. TYPICAL.

5. PROVIDE AND INSTALL DATA DROP WITH 10'-0" COILED SLACK FOR VIDEO SURVEILLANCE CAMERA LOCATION. TYPICAL.

6. SEE SHEET E400 FOR ADDITIONAL REQUIREMENTS IN THIS AREA. TYPICAL.

7. PROVIDE AND INSTALL DATA DROP TO OWNER PROVIDED EXTERIOR WIRELESS ACCESS POINT. ROUTE IN 3/4" CONDUIT TO EXTERIOR.

8. APPROXIMATE LOCATION OF "WP2' AV SYSTEM WALLPLATE MOUNTED AT 66" AFF. ALL DEVICES AND CABLING TO BE PROVIDED AND TERMINATED BY E.C. COORDINATE INSTALLATION WITH ARCHITECTURAL AND MILLWORK ELEVATIONS PRIOR TO ROUGH-IN.

9. PROVIDE AND INSTALL DATA DROP TO OWNER PROVIDED TIME CLOCK

10. MOUNT 8'-0" TO CNETER OF CLOCK ABOVE DOOR.

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REGISTERED PROFESSIONAL ARCHITECT WILLIAM R. STACY 12073 OKLAHOMA USA 04/26/18

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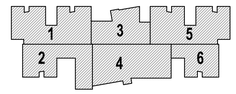
2018

PROJECT



TRUE NORTH PLAN NORTH

KEY PLAN

REVISIONS

03.06.18

ISSUE DATE

1507	PROJECT NO
NES	DRAWN BY
JJ	CHK'D BY

SPECIAL SYSTEMS FLOOR PLAN - AREA 3

E403

SHEET TITLE

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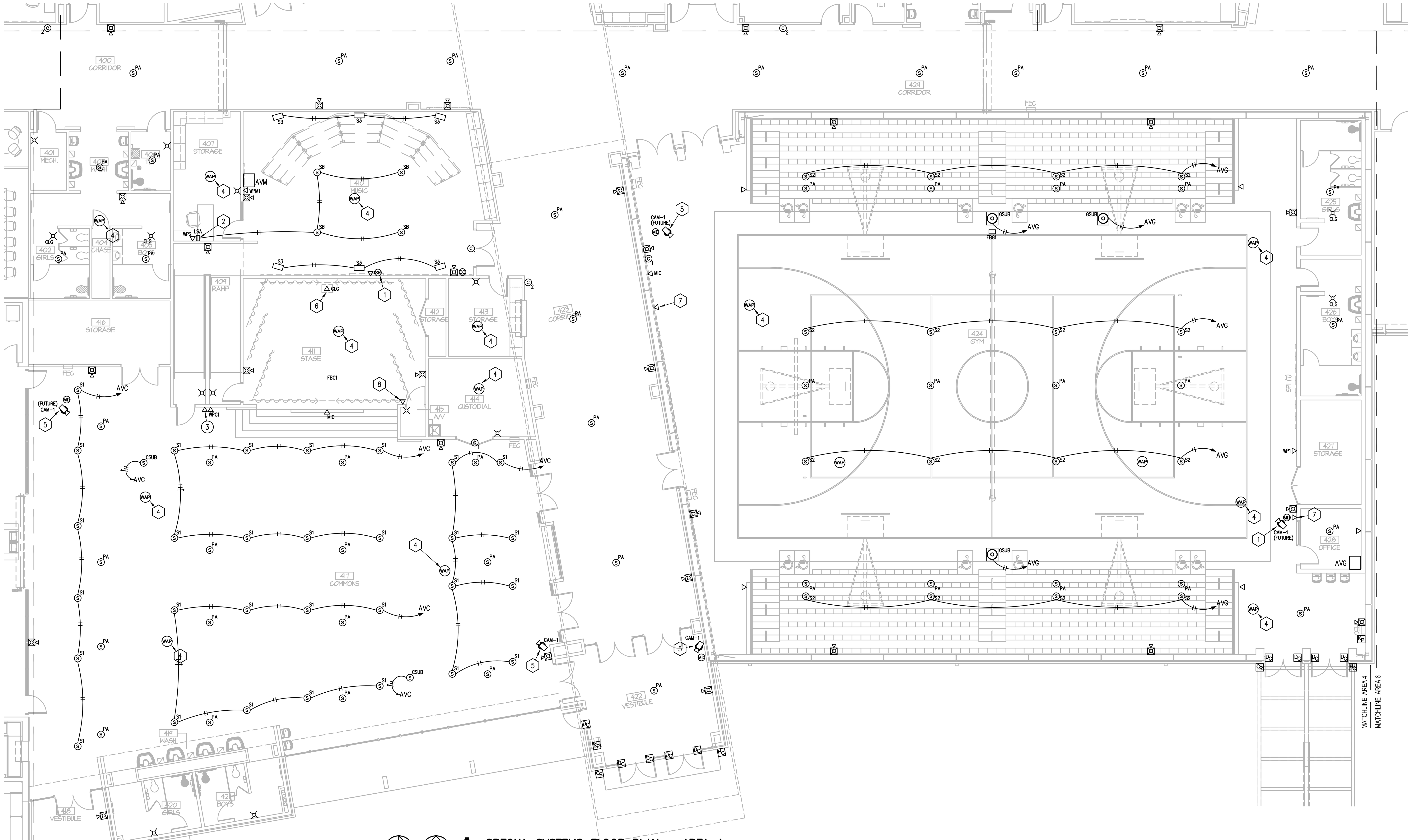


A SPECIAL SYSTEMS FLOOR PLAN - AREA 4
SCALE: 1/8" = 1'-0"

GENERAL SPECIAL SYSTEMS NOTES:

A. COORDINATE EXACT LOCATION OF ALL DEVICES WITH ARCHITECTURAL AND MILLWORK ELEVATIONS PRIOR TO ROUGH-IN. IF EXACT LOCATION CANNOT BE DETERMINED, REQUEST DIRECTION FROM A/E PRIOR TO ROUGH-IN.

B. ALL AUDIO VIDEO, INTERCOM, CLOCK, BELL, SECURITY, AND VIDEO SURVEILLANCE SYSTEM COMPONENTS SHALL BE PROVIDED AND INSTALLED BY THE E.C. UNLESS SPECIFICALLY NOTED OTHERWISE.

B. ALL DATA, FIRE ALARM, INTERCOM, CLOCK, BELL, AND SECURITY SYSTEM CABLING SHALL BE ROUTED WITHIN THE CABLE TRAY SYSTEM TO THE MAXIMUM EXTENT POSSIBLE. CABLES ROUTED OUTSIDE THE CABLE TRAY SYSTEM SHALL UTILIZE IRREGULARLY SPACED J-HOOKS MOUNTED APPROXIMATELY 4' O.C. J-HOOKS SHALL BE RATED FOR USE WITH CABLING WHICH THEY SERVE AND SHALL NOT EXCEED 40% OF THE MANUFACTURER'S RATED CAPACITY. CABLING FOR ALL SYSTEMS SHALL BE SUPPORTED FROM STRUCTURE ABOVE USING DEDICATED SUPPORT COMPONENTS. DO NOT LAY CABLING OF ANY SYSTEM ON CEILING SYSTEM COMPONENTS.

C. ALL DEVICES LOCATED WITHIN THE GYMNASIUM AREA SHALL BE PROVIDED WITH CLEAR POLYCARBONATE PROTECTIVE COVERS.

D. CAMERA LOCATIONS NOTED AS 'FUTURE' SHALL BE PROVIDED WITH DATA CABLE TO VIDEO SURVEILLANCE SYSTEM RACK ONLY.

E. CLASSROOM CLOCKS SHALL BE MOUNTED AT 8'-0" TO CENTER, GROUP AREA AND CORRIDOR SHALL BE MOUNTED AT 9'-6" TO CENTER.

F. PROVIDE AND INSTALL CARBON MONOXIDE DETECTION IN EACH CLASSROOM AND GROUP AREA TO ALARM VIA FIRE ALARM SYSTEM.

SPECIFIC SPECIAL SYSTEMS NOTES (⬡):

1. OWNER PROVIDED SMART PANEL INTERACTIVE MONITOR SYSTEM LOCATION. PROVIDE RECESSED ENCLOSURE FOR ALL POWER, DATA, AND AV CONNECTIONS BEHIND SMART PANEL AND SUBMIT FOR APPROVAL. COORDINATE INSTALLATION WITH ARCHITECTURAL AND MILLWORK ELEVATIONS PRIOR TO ROUGH-IN. TYPICAL.
2. APPROXIMATE LOCATION OF 'WP1' AV SYSTEM WALLPLATE LOCATED IN MILLWORK. ALL DEVICES AND CABLING TO BE PROVIDED AND TERMINATED BY E.C. COORDINATE INSTALLATION WITH ARCHITECTURAL AND MILLWORK ELEVATIONS PRIOR TO ROUGH-IN.
3. APPROXIMATE LOCATION OF 'WP2' AV SYSTEM WALLPLATE LOCATED AT TEACHERS DESK LOCATION. ALL DEVICES AND CABLING TO BE PROVIDED AND TERMINATED BY E.C. COORDINATE INSTALLATION WITH ARCHITECTURAL AND MILLWORK ELEVATIONS PRIOR TO ROUGH-IN.
4. PROVIDE AND INSTALL DATA DROP IN CEILING AT CENTER OF ROOM WTH 10'-0" COILED SLACK ABOVE CEILING FOR OWNER PROVIDED WIRELESS ACCESS POINT. TYPICAL.
5. PROVIDE AND INSTALL DATA DROP WITH 10'-0" COILED SLACK FOR VIDEO SURVEILLANCE CAMERA LOCATION.
6. PROVIDE AND INSTALL CEILING MOUNTED BLACK DEVICES AND COVER PLATES FOR POWER AND DATA IN CEILING LOCATED ON STAGE.
7. PROVIDE AND INSTALL J-BOX AND DATA CONNECTION TO SCOREBOARD ADJACENT TO POWER. ROUTE (1) 1.25" CONDUIT AND STUB ABOVE NEAREST ACCESSIBLE CEILING. REFER TO INTERIOR ELEVATIONS FOR EXACT LOCATION OF SCOREBOARD.
8. PROVIDE AND INSTALL DATA DROP FOR WALL MOUNTED PHONE (PROVIDED BY OWNER) AT 54".

GENERAL A/V AND LIGHTING SYSTEM NOTES:

A. AUDIO/VIDEO AND THEATRICAL LIGHTING SYSTEM FLOOR PLANS, LINE DIAGRAMS, AND DETAILS ARE PROVIDED TO INDICATE AN APPROXIMATION OF WORK REQUIRED ONLY. ALL DEVICES, RACEWAYS, CABLING, AND ACCESSORIES ARE NOT INDICATED. THE E.C. SHALL ENGAGE A QUALIFIED A/V SYSTEMS DESIGNER TO FACILITATE FINAL SYSTEMS DESIGN AND PREPARATION OF SUBMITTAL/SHOP DRAWINGS. ALL EQUIPMENT SPECIFICATIONS INDICATED ON THESE DRAWINGS ARE REFERENCED AS A "BASIS OF DESIGN" FOR CONSTRUCTION, QUALITY, AND PERFORMANCE CHARACTERISTICS. PROPOSED EQUIPMENT SELECTIONS INCLUDED IN SUBMITTAL/SHOP DRAWINGS SHALL MEET OR EXCEED ALL SPECIFICATIONS OF THE "BASIS OF DESIGN" EQUIPMENT. FINAL SYSTEMS DESIGN SHALL INCLUDE ALL INPUT, OUTPUT, AND CONTROL OPTIONS AND LOCATIONS AS DESCRIBED WITHIN THESE PLAN SHEETS.

B. AUDIO/VIDEO SYSTEMS INSTALLER SHALL COORDINATE EXACT LOCATION AND SIZES OF ALL BOX LOCATIONS WITH THE ELECTRICAL CONTRACTOR PRIOR TO ROUGH-IN. A/V SYSTEMS INSTALLER SHALL PROVIDE ANY CUSTOM OR POURED IN PLACE BACK BOXES OR SLEEVES TO ELECTRICAL CONTRACTOR PRIOR TO ROUGH-IN. ALL A/V SYSTEMS BOXES SHALL BE PROVIDED BY THE A/V CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE EXACT REQUIREMENTS PRIOR TO ROUGH-IN.

C. CONTRACTOR SHALL PROVIDE AND INSTALL AND MAKE FINAL TERMINATIONS FOR ALL A/V SYSTEM(S) CABLING. REFERENCE A/V SYSTEM DETAILS AND LINE-DIAGRAMS FOR APPROXIMATE CABLING/CONDUIT CABLING REQUIREMENTS.

SPECIFIC THEATRICAL LIGHTING NOTES (◯):

1. PROVIDE 2" GALVANIZED PIPE FOR SUSPENSION OF THEATRICAL LIGHTING COMPONENTS. TYPICAL. PIPE SHALL BE PAINTED BLACK. TYPICAL.
2. PROVIDE AND INSTALL LEVITON "SKYHOOK" RETRACTABLE LIGHTING SUPPORT #SHOOO-400. TYPICAL.
3. PROVIDE AND INSTALL 5-BUTTON DMX CONTROL STATION.
4. PROVIDE AND INSTALL DMX INPUT FOR LIGHTING CONTROL BOARD AT 'WPC1' WALL PLATE.
5. ALL STAGE LIGHTING AND ASSOCIATED MATERIALS WITHIN THIS AREA SHALL BE BLACK IN IN COLOR.
6. ALL STAGE LIGHTING AND ASSOCIATED MATERIALS WITHIN THIS AREA SHALL BE WHITE IN COLOR.
7. PROVIDE AND INSTALL LEHIGH WALL MOUNTED TOUCHSCREEN DMX CONTROLLER.
8. PROVIDE AND INSTALL DMX OUTLET BOX ON BATTEN. CONNECT ALL FIXTURES TO DMX CONTROL CIRCUIT. TYPICAL.

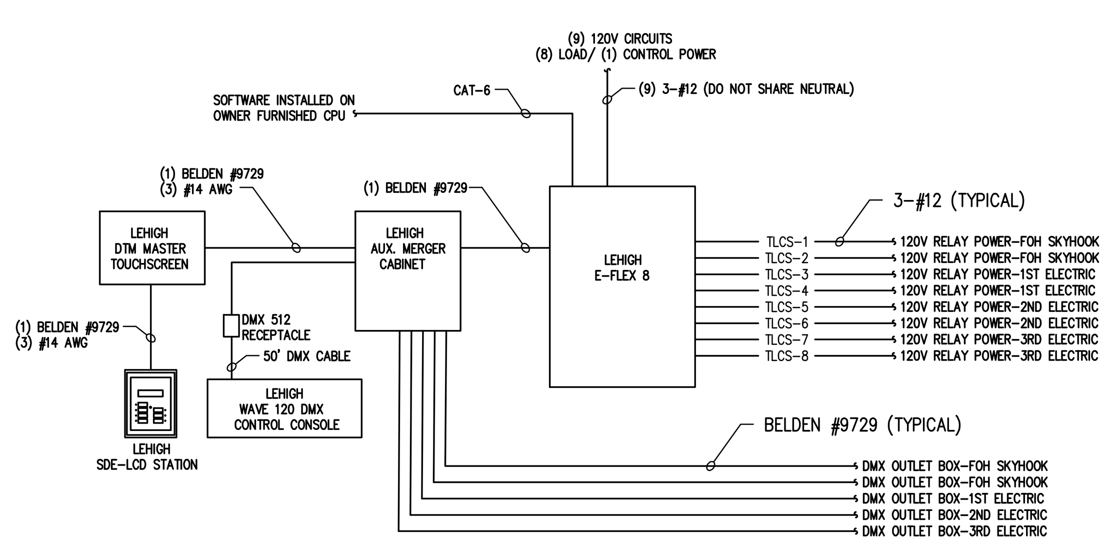
THEATRICAL DMX/RELAY CHANNEL SCHEDULE

FIXTURE DESIGNATION	DMX CHANNEL # (AUX. MERGER CABINET)	RELAY CIRCUIT # (EFLEX-8)
FOH/1	9,10,11,12,13	TLCS-1
FOH/2	14,15,16,17,18	TLCS-2
FOH/3	19,20,21,22,23	TLCS-1
FOH/4	24,25,26,27,28	TLCS-2
P1/5	39,30,31,32	TLCS-3
P1/6	33,34,35,36,37	TLCS-4
P1/7	38,39,40,41	TLCS-3
P1/8	42,43,44,45,46	TLCS-4
P1/9	47,48,49,50	TLCS-3
P2/10	55,56,57,58	TLCS-5
P2/11	59,60,61,62,63	TLCS-6
P2/12	64,65,66,67	TLCS-5
P2/13	68,69,70,71,72	TLCS-6
P2/14	73,74,75,76	TLCS-5
P2/15	80,81,82,83	TLCS-7
P2/16	84,85,86,87,88	TLCS-8
P2/17	89,90,91,92	TLCS-7
P2/18	93,94,95,96,97	TLCS-8
P2/19	98,99,100,101	TLCS-7

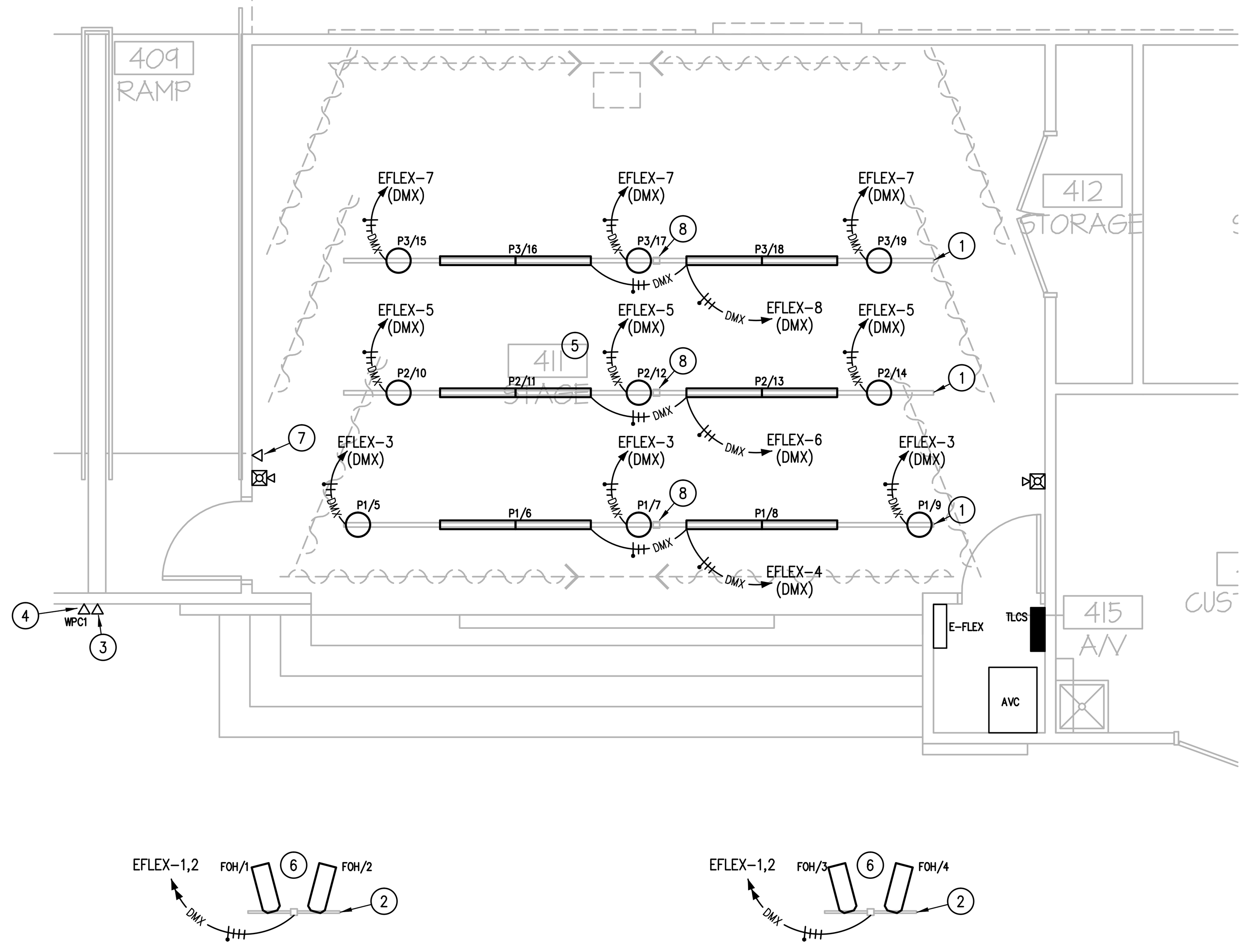
THEATRICAL LIGHTING SYSTEM FIXTURES

DESIGNATION	MANUFACTURER	MODEL OR PART NUMBER:
TLCS	LEHIGH	EFLEX
SL1	TIMES SQUARE	PRISM PAR1 - CRE6-RGBAW-B-MNB
SL2	CHAUVET	OVATION B-2805FC
SL3	ELATION	COLOUR 5 PROFILE - CLP001 (3 x 19°) (3 x 26°)

E.C. SHALL PROVIDE DMX STAGE PIN CONNECTOR BOXES AT ALL BATTENS AS REQUIRED TO FACILITATE CONNECTION AS INDICATED. PROVIDE 4-CIRCUITE CONNECTION BOXES MINIMUM AT ALL BATTENS. 'SKYHOOK' LOCATION SHALL INCLUDE TWO (2) CIRCUITS EACH.



B THEATRICAL LIGHTING SYSTEM-LINE DIAGRAM
NO SCALE



C THEATRICAL LIGHTING PLAN-STAGE AREA
SCALE: 1/4" = 1'-0"

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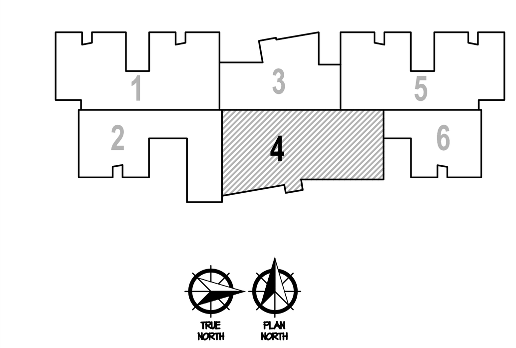
OWASSO, OK
2018
PROJECT



KEY PLAN

REVISIONS

03.06.18
ISSUE DATE

1507 PROJECT NO
NES DRAWN BY
JJ CHK'D BY

SPECIAL SYSTEMS FLOOR PLAN - AREA 4

E404
SHEET TITLE

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COA # 390 - RENEWAL DATE 6/30/2019

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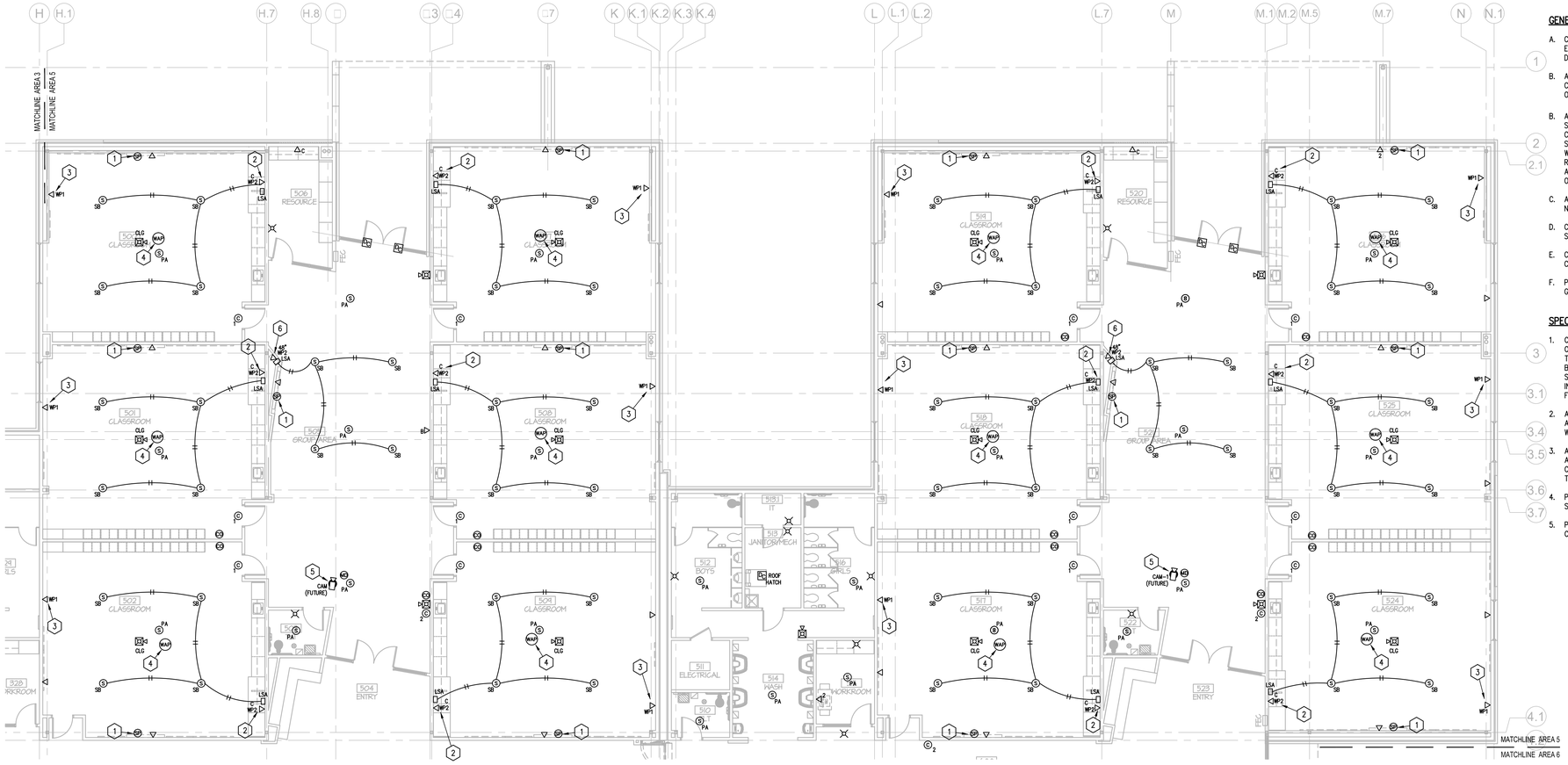

SPECIAL SYSTEMS FLOOR PLAN – AREA 5

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

NORTH TRUE — NORTH PLAN

GENERAL SPECIAL SYSTEMS NOTES:

A. COORDINATE EXACT LOCATION OF ALL DEVICES WITH ARCHITECTURAL AND MILLWORK ELEVATIONS PRIOR TO ROUGH-IN. IF EXACT LOCATION CANNOT BE DETERMINED, REQUEST DIRECTION FROM A/E PRIOR TO ROUGH-IN.

B. ALL AUDIO VIDEO, INTERCOM, CLOCK, BELL, SECURITY, AND VIDEO SURVEILLANCE SYSTEM COMPONENTS SHALL BE PROVIDED AND INSTALLED BY THE E.C. UNLESS SPECIFICALLY NOTED OTHERWISE.

B. ALL DATA, FIRE ALARM, INTERCOM, CLOCK, BELL, AND SECURITY SYSTEM CABLING SHALL BE ROUTED WITHIN THE CABLE TRAY SYSTEM TO THE MAXIMUM EXTENT POSSIBLE. CABLES ROUTED OUTSIDE THE CABLE TRAY SYSTEM SHALL UTILIZE IRREGULARLY SPACED J-HOOKS MOUNTED APPROXIMATELY 4' O.C. J-HOOKS SHALL BE RATED FOR USE WITH CABLING WHICH THEY SERVE AND SHALL NOT EXCEED 40% OF THE MANUFACTURER'S RATED CAPACITY. CABLING FOR ALL SYSTEMS SHALL BE SUPPORTED FROM STRUCTURE ABOVE USING DEDICATED SUPPORT COMPONENTS. DO NOT LAY CABLING OF ANY SYSTEM ON CEILING SYSTEM COMPONENTS.

C. ALL DATA DROP LOCATIONS SHALL INCLUDE TWO (2) DATA DROPS UNLESS SPECIFICALLY NOTED OTHERWISE.

D. CAMERA LOCATIONS NOTED AS 'FUTURE' SHALL BE PROVIDED WITH DATA CABLE TO VIDEO SURVEILLANCE SYSTEM RACK ONLY.

E. CLASSROOM CLOCKS SHALL BE MOUNTED AT 8'-0" TO CENTER, GROUP AREA AND CORRIDOR SHALL BE MOUNTED AT 9'-6" TO CENTER.

F. PROVIDE AND INSTALL CARBON MONOXIDE DETECTION IN EACH CLASSROOM AND GROUP AREA TO ALARM VIA FIRE ALARM SYSTEM.

SPECIFIC ELECTRICAL NOTES ( ):

1. CONTRACTOR SHALL COORDINATE ROUGH-IN LOCATIONS FOR POWER AND DATA FOR OWNER PROVIDED SMART PANEL (SP). MOCK-UP ELEVATION OF TEACHING WALL TO SHOW ALL ROUGH-IN THAT IS REQUIRED. PROVIDE RECESSED ENCLOSURE BEHIND SMART PANEL, EQUAL TO ARLINGTON TVB713 AND SUBMIT FOR APPROVAL. STUB 1.25" CONDUIT ABOVE CEILING WITH PLASTIC BUSHING. PROVIDE AND INSTALL ALL CABLING FROM SMART PANEL TO WP1. SEE E400 SERIES DRAWINGS FOR DATA LOCATIONS. TYPICAL.

2. APPROXIMATE LOCATION OF 'WP2' AND CLASSROOM SOUND SYSTEM. ALL DEVICES AND CABLING TO BE PROVIDED AND TERMINATED BY E.C. COORDINATE INSTALLATION WITH ARCHITECTURAL AND MILLWORK ELEVATIONS PRIOR TO ROUGH-IN.

3. APPROXIMATE LOCATION OF 'WP1' WALLPLATE LOCATED AT TEACHERS DESK LOCATION. ALL DEVICES AND CABLING TO BE PROVIDED AND TERMINATED BY E.C. COORDINATE INSTALLATION WITH ARCHITECTURAL AND MILLWORK ELEVATIONS PRIOR TO ROUGH-IN.

4. PROVIDE AND INSTALL DATA DROP IN CEILING AT CENTER OF ROOM WITH 10'-0" COILED SLACK ABOVE CEILING FOR OWNER PROVIDED WIRELESS ACCESS POINT. TYPICAL.

5. PROVIDE AND INSTALL DATA DROP WITH 10'-0" COILED SLACK FOR VIDEO SURVEILLANCE CAMERA LOCATION.

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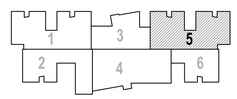
OWASSO PUBLIC SCHOOLS

OWASSO, OK
2018

PROJECT



KEY PLAN

REVISIONS

03.06.18

ISSUE DATE

1507	PROJECT NO
NES	DRAWN BY
JJ	CHKD BY

SPECIAL SYSTEMS FLOOR PLAN - AREA 5

E405

SHEET TITLE

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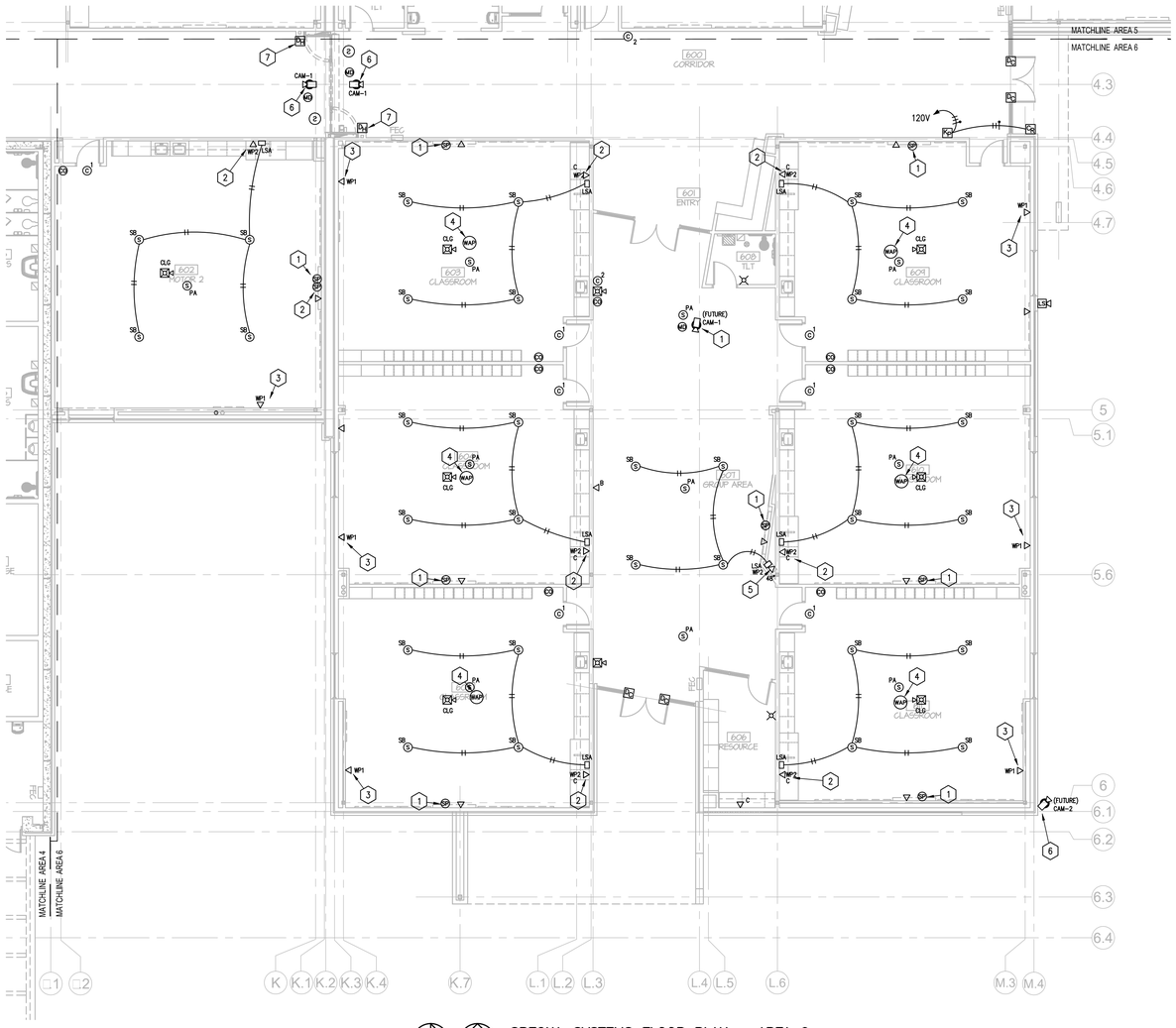

NORTH TRUE NORTH PLAN

SPECIAL SYSTEMS FLOOR PLAN – AREA 6

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

GENERAL SPECIAL SYSTEMS NOTES:

A. COORDINATE EXACT LOCATION OF ALL DEVICES WITH ARCHITECTURAL AND MILLWORK ELEVATIONS PRIOR TO ROUGH-IN. IF EXACT LOCATION CANNOT BE DETERMINED, REQUEST DIRECTION FROM A/E PRIOR TO ROUGH-IN.

B. ALL AUDIO VIDEO, INTERCOM, CLOCK, BELL, SECURITY, AND VIDEO SURVEILLANCE SYSTEM COMPONENTS SHALL BE PROVIDED AND INSTALLED BY THE E.C. UNLESS SPECIFICALLY NOTED OTHERWISE.

B. ALL DATA, FIRE ALARM, INTERCOM, CLOCK, BELL, AND SECURITY SYSTEM CABLING SHALL BE ROUTED WITHIN THE CABLE TRAY SYSTEM TO THE MAXIMUM EXTENT POSSIBLE. CABLES ROUTED OUTSIDE THE CABLE TRAY SYSTEM SHALL UTILIZE IRREGULARLY SPACED J-HOOKS MOUNTED APPROXIMATELY 4' O.C. J-HOOKS SHALL BE RATED FOR USE WITH CABLING WHICH THEY SERVE AND SHALL NOT EXCEED 40% OF THE MANUFACTURER'S RATED CAPACITY. CABLING FOR ALL SYSTEMS SHALL BE SUPPORTED FROM STRUCTURE ABOVE USING DEDICATED SUPPORT COMPONENTS. DO NOT LAY CABLING OF ANY SYSTEM ON CEILING SYSTEM COMPONENTS.

C. ALL DATA DROP LOCATIONS SHALL INCLUDE TWO (2) DATA DROPS UNLESS SPECIFICALLY NOTED OTHERWISE.

D. CAMERA LOCATIONS NOTED AS 'FUTURE' SHALL BE PROVIDED WITH DATA CABLE TO VIDEO SURVEILLANCE SYSTEM RACK ONLY.

E. CLASSROOM CLOCKS SHALL BE MOUNTED AT 8'-0" TO CENTER, GROUP AREA AND CORRIDOR SHALL BE MOUNTED AT 9'-6" TO CENTER.

F. PROVIDE AND INSTALL CARBON MONOXIDE DETECTION IN EACH CLASSROOM AND GROUP AREA TO ALARM VIA FIRE ALARM SYSTEM.

SPECIFIC ELECTRICAL NOTES (⬡):

1. CONTRACTOR SHALL COORDINATE ROUGH-IN LOCATIONS FOR POWER AND DATA FOR OWNER PROVIDED SMART PANEL (SP). MOCK-UP ELEVATION OF TEACHING WALL TO SHOW ALL ROUGH-IN THAT IS REQUIRED. PROVIDE RECESSED ENCLOSURE BEHIND SMART PANEL, EQUAL TO ARLINGTON TVB713 AND SUBMIT FOR APPROVAL. STUB 1.25" CONDUIT ABOVE CEILING WITH PLASTIC BUSHING. PROVIDE AND INSTALL ALL CABLING FROM SMART PANEL TO WP1. SEE E400 SERIES DRAWINGS FOR DATA LOCATIONS. TYPICAL.

2. APPROXIMATE LOCATION OF 'WP2' AND CLASSROOM SOUND SYSTEM. ALL DEVICES AND CABLING TO BE PROVIDED AND TERMINATED BY E.C. COORDINATE INSTALLATION WITH ARCHITECTURAL AND MILLWORK ELEVATIONS PRIOR TO ROUGH-IN.

3. APPROXIMATE LOCATION OF 'WP1' WALLPLATE LOCATED AT TEACHERS DESK LOCATION. ALL DEVICES AND CABLING TO BE PROVIDED AND TERMINATED BY E.C. COORDINATE INSTALLATION WITH ARCHITECTURAL AND MILLWORK ELEVATIONS PRIOR TO ROUGH-IN.

4. PROVIDE AND INSTALL DATA DROP IN CEILING AT CENTER OF ROOM WTH 10'-0" COILED SLACK ABOVE CEILING FOR OWNER PROVIDED WIRELESS ACCESS POINT. TYPICAL.

5. PROVIDE & INSTALL DATA WALL PLATE & CALBLING AT 48" INSIDE WALL "NOOK".

6. PROVIDE AND INSTALL DATA DROP WITH 10'-0" COILED SLACK FOR VIDEO SURVEILLANCE CAMERA LOCATION.

7. PROVIDE AND INSTALL MAGNETIC DOOR HOLD-OPEND DEVICE. PROVIDE 120V POWER AND CONNECTION TO FIRE ALARM SYSTEM AS REQUIRED.

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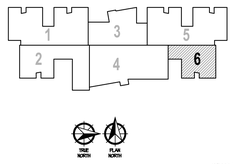
MORROW ELEMENTARY

OWASSO PUBLIC SCHOOLS

OWASSO, OK
2018

PROJECT



KEY PLAN

REVISIONS

03.06.18

ISSUE DATE

1507 | PROJECT NO
NES | DRAWN BY
JJ | CHK'D BY

SPECIAL SYSTEMS FLOOR PLAN - AREA 6

E406

SHEET TITLE

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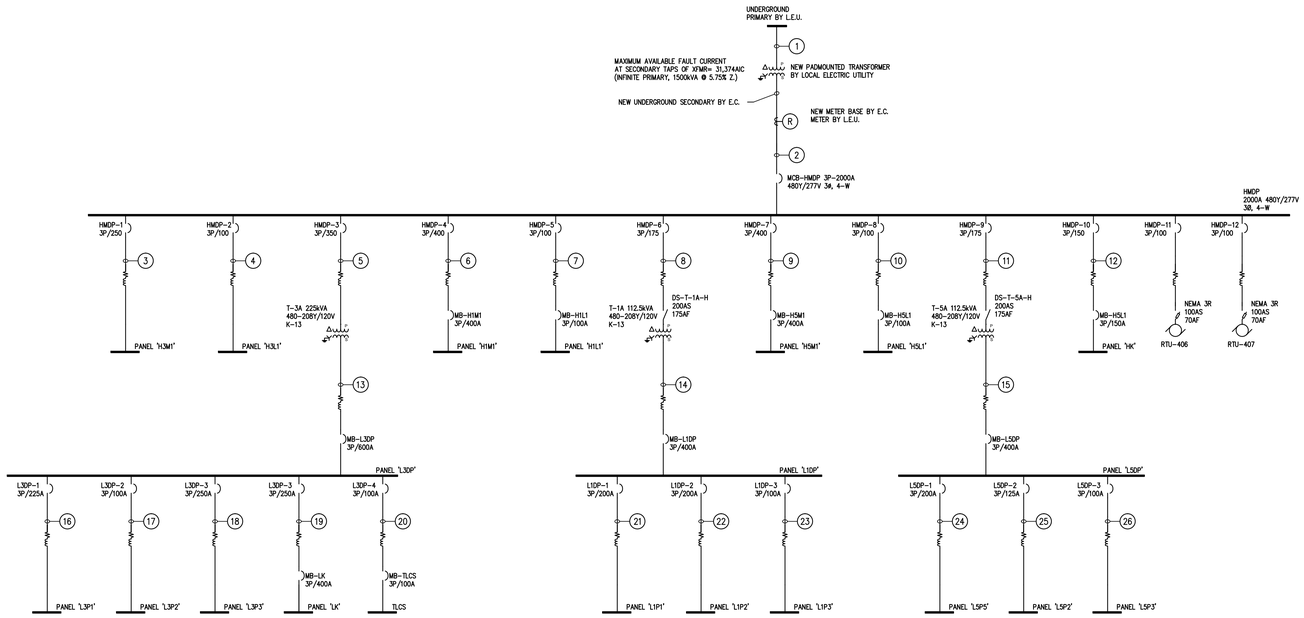

A ELECTRICAL LINE DIAGRAM
NO SCALE

ELECTRICAL FEEDER SCHEDULE—ALL SIZES BASED ON COPPER CONDUCTORS						
CABLE	CONDUCTORS	CONDUIT SIZE	AMPS	LENGTH (FT)	AIC	PANEL RATING
1 (UG)	PRIMARY CABLING BY L.E.U.	6.0"	N/A	N/A	31,374*	N/A
2 (UG)	(6) RUNS OF 4-400MCM AND 1-250MCM GND	(6) 3.0"	2000	--	XX	XX
3	4-350MCM AND 1-#4GND	2.5"	300	--	XX	XX
4	4-#3 AND 1-#8 GND	1.25"	100	--	XX	XX
5	(2) RUNS OF 4-#3/0 AND 1-#3 GND	(2) 2.5"	350	--	XX	XX
6 (UG)	(2) RUNS OF 4-#3/0 AND 1-#3 GND	(2) 2.5"	400	--	XX	XX
7 (UG)	4-#3 AND 1-#8 GND	1.25"	100	--	XX	XX
8 (UG)	3-#2/0 AND 1-#6 GND	1.5"	175	--	XX	XX
9 (UG)	(2) RUNS OF 4-#3/0 AND 1-#3 GND	(2) 2.5"	400	--	XX	XX
10 (UG)	4-#3 AND 1-#8 GND	1.25"	100	--	XX	XX
11 (UG)	3-#2/0 AND 1-#6 GND	1.5"	175	--	XX	XX
12 (UG)	4-#1/0 AND 1-#6 GND	2.0"	150	--	XX	XX
13	(2) RUNS OF 4-350MCM AND 1-#1 GND	(2) 3.0"	600	--	XX	XX
14	(2) RUNS OF 4-#3/0 AND 1-#3 GND	(2) 2.5"	400	--	XX	XX
15	(2) RUNS OF 4-#3/0 AND 1-#3 GND	(2) 2.5"	400	--	XX	XX
16	4-#4/0 AND 1-#4 GND	3"	225	--	XX	XX
17	4-#3 AND 1-#8 GND	1.25"	100	--	XX	XX
18	4-350MCM AND 1-#4GND	2.5"	300	--	XX	XX
19 (UG)	4-350MCM AND 1-#4GND	2.5"	300	--	XX	XX
20 (UG)	4-#3 AND 1-#8 GND	1.25"	100	--	XX	XX
21	4-#3/0 AND 1-#6 GND	2.0"	200	--	XX	XX
22	4-#3/0 AND 1-#6 GND	2.0"	200	--	XX	XX
23	4-#3 AND 1-#8 GND	1.25"	100	--	XX	XX
24	4-#3/0 AND 1-#6 GND	2.0"	200			
25	4-#1 AND 1-#6 GND	1.5"	125			
26	4-#3 AND 1-#8 GND	1.25"	100			

LENGTHS INDICATED ON THIS SCHEDULE ARE INTENDED FOR FAULT CURRENT CALCULATIONS ONLY AND SHALL NOT BE USED FOR BID/PRICING PURPOSES.
* AVAILABLE FAULT CURRENT BASED ON SECONDARY TAPS OF 1500kVA PADMOUNTED XFMR @ 5.75%Z.
(UG) INDICATES ROUTING UNDER SLAB IN PVC CONDUIT- ALL OTHER FEEDS SHALL BE ROUTED IN EMT ABOVE GRADE

PANEL "HMDP" W/ 300kA/Ø S.P.D.

42 KAIC

MAKE:	SQ. D	SN:	YES	MAINS AMP:	2000A
TYPE:	I-LINE	EQUIP. GROUND BUS:	YES	LOCATED:	SEE PLANS
VOLTS:	480Y/277V	DISCONNECT:	MB	MOUNTING:	SURFACE
PHASE:	3	POLES:	3	TOTAL CONNECTED LOAD:	--
WIRE:	4	AMPS:	2000A	ESTIMATED DEMAND LOAD	--

SERVICE ENTRANCE RATED WITH GFCI

CCT. NO.	SERVING	LOAD KVA or (HP)	CIRCUIT BREAKER POLES	CIRCUIT BREAKER SIZE	WIRE COUNT AND CONDUIT SIZE
1.	PANEL 'H3M1'	143.7	3	250	SEE LINE DIAGRAM
2.	PANEL 'H3L1'	--	3	--	SEE LINE DIAGRAM
3.	TRANSFORMER 'T-3A' (225kVA)	134.4	3	350	SEE LINE DIAGRAM
4.	PANEL 'H1M1'	264.8	3	400	SEE LINE DIAGRAM
5.	PANEL 'H1L1'	--	3	--	SEE LINE DIAGRAM
6.	TRANSFORMER 'T-1A' (112.5kVA)	67.1	3	175	SEE LINE DIAGRAM
7.	PANEL 'H5M1'	216.6	3	400	SEE LINE DIAGRAM
8.	PANEL 'H5L1'	--	3	--	SEE LINE DIAGRAM
9.	TRANSFORMER 'T-5A' (112.5kVA)	60.7	3	175	SEE LINE DIAGRAM
10.	PANEL 'HK'	59.2	3	150	SEE LINE DIAGRAM
11.	RTU-406 (GYM)	50.1	3	100	4-#3 AND 1-#8 GND IN 1.25" CONDUIT
12.	RTU-407 (GYM)	50.1	3	100	4-#3 AND 1-#8 GND IN 1.25" CONDUIT
13.	SPACE	--	3	--	-- --
14.	SPACE	--	3	--	-- --
15.	SPACE	--	3	--	-- --
16.	SPACE	--	3	--	-- --

PANEL "L1DP"

35 KAIC

MAKE:	SQ. D	SN:	YES	MAINS AMP:	400
TYPE:	I-LINE	EQUIP. GROUND BUS:	YES	LOCATED:	SEE PLANS
VOLTS:	208Y/120V	DISCONNECT:	MB	MOUNTING:	SURFACE
PHASE:	3	POLES:	3	TOTAL CONNECTED LOAD:	83.9
WIRE:	4	AMPS:	400	ESTIMATED DEMAND LOAD	67.1

CCT. NO.	SERVING	LOAD KVA or (HP)	CIRCUIT BREAKER POLES	CIRCUIT BREAKER SIZE	WIRE COUNT AND CONDUIT SIZE
1.	PANEL 'L1P1'	33.1	3	200	SEE LINE DIAGRAM
2.	PANEL 'L1P2'	35.8	3	200	SEE LINE DIAGRAM
3.	PANEL 'L1P3'	15.0	3	100	SEE LINE DIAGRAM
4.	SPARE	5.0	3	200	-- --
5.	SPARE	5.0	3	100	-- --
6.	SPACE	--	3	200	-- --
7.	SPACE	--	3	100	-- --
8.	SPACE	--	3	100	-- --

PANEL "L3DP"

42 KAIC

MAKE:	SQ. D	SN:	YES	MAINS AMP:	600
TYPE:	I-LINE	EQUIP. GROUND BUS:	YES	LOCATED:	SEE PLANS
VOLTS:	208Y/120V	DISCONNECT:	MB	MOUNTING:	SURFACE
PHASE:	3	POLES:	3	TOTAL CONNECTED LOAD:	192.0
WIRE:	4	AMPS:	600	ESTIMATED DEMAND LOAD	134.4

CCT. NO.	SERVING	LOAD KVA or (HP)	CIRCUIT BREAKER POLES	CIRCUIT BREAKER SIZE	WIRE COUNT AND CONDUIT SIZE
1.	PANEL 'LP31'	45.2	3	225	-- --
2.	PANEL 'L3P2'	20.0	3	100	-- --
3.	PANEL 'L3P3'	15.0	3	100	-- --
4.	PANEL 'LK'	86.8	3	400	-- --
5.	TLCS	15.0	3	100	-- --
6.	SPARE	5.0	3	100	-- --
7.	SPARE	5.0	3	100	-- --
8.	SPACE	--	3	200	-- --
9.	SPACE	--	3	100	-- --
10.	SPACE	--	3	100	-- --

PANEL "L5DP"

35 KAIC

MAKE:	SQ. D	SN:	YES	MAINS AMP:	400
TYPE:	I-LINE	EQUIP. GROUND BUS:	YES	LOCATED:	SEE PLANS
VOLTS:	208Y/120V	DISCONNECT:	MB	MOUNTING:	SURFACE
PHASE:	3	POLES:	3	TOTAL CONNECTED LOAD:	75.9
WIRE:	4	AMPS:	-- 400 --	ESTIMATED DEMAND LOAD	60.7

CCT. NO.	SERVING	LOAD KVA or (HP)	CIRCUIT BREAKER POLES	CIRCUIT BREAKER SIZE	WIRE COUNT AND CONDUIT SIZE
1.	PANEL 'L5P1'	37.3	3	200	SEE LINE DIAGRAM
2.	PANEL 'L5P2'	23.6	3	125	SEE LINE DIAGRAM
3.	PANEL 'L5P3'	15.0	3	100	SEE LINE DIAGRAM
4.	SPARE	5.0*	3	100	-- --
5.	SPARE	5.0*	3	100	-- --
6.	SPACE	--	3	200	-- --
7.	SPACE	--	3	100	-- --
8.	SPACE	-- --	3 --	100	-- --

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2018
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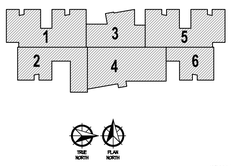

KEY PLAN

REVISIONS

03.06.18
ISSUE DATE

1507	PROJECT NO
DWM	DRAWN BY
WAM	CHKD BY

ELECTRICAL SCHEDULES

E500
SHEET TITLE

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PANEL "H1M1"

22 KAIC

MAKE:	SQ. D	SN:	YES	MAINS AMP:	400
TYPE:	NF	EQUIP. GROUND BUS:	YES	LOCATED:	SEE PLANS
VOLTS:	480Y/277V	DISCONNECT:	MB	MOUNTING:	SURFACE
PHASE:	3	POLES:	3	TOTAL CONNECTED LOAD:	264.8
WIRE:	4	AMPS:	400	ESTIMATED DEMAND LOAD	264.8

CCT. NO.	SERVING	LOAD KVA or (HP)	CIRCUIT BREAKER (HACR) POLES	CIRCUIT BREAKER (HACR) SIZE	WIRE COUNT AND CONDUIT SIZE
1.	RTU-101	9.5	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
2.	RTU-102	9.5	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
3.	RTU-103	9.5	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
4.	RTU-104	9.5	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
5.	RTU-105	9.5	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
6.	RTU-106	9.5	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
7.	RTU-107	11.4	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
8.	RTU-108	9.5	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
9.	RTU-109	9.5	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
10.	RTU-110	9.5	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
11.	RTU-111	9.5	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
12.	RTU-112	9.5	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
13.	RTU-113	9.5	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
14.	RTU-114	11.4	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
15.	RTU-201	11.4	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
16.	RTU-202	11.4	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
17.	RTU-203	9.5	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
18.	RTU-204	9.5	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
19.	RTU-205	9.5	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
20.	RTU-206	9.5	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
21.	RTU-207	9.5	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
22.	RTU-208	9.5	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
23.	RTU-209	9.5	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
24.	RTU-210	9.5	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
25.	RTU-211	12.6	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
26.	RTU-212 (KITCHEN)	16.6	3	25	4-#12AND 1-#12 GND IN 0.75" CONDUIT
27.	SPARE	5.0*	3	20	-- --
28.	SPARE	5.0*	3	20	-- --
29.	SPARE	5.0*	3	20	-- --
30.	SPARE	5.0*	3	20	-- --
31.	SPARE	5.0*	3	20	-- --
32-40	SPACE	5.0*	3	20	-- --

PANEL "H3M1"

42 KAIC

MAKE:	SQ. D	SN:	YES	MAINS AMP:	250
TYPE:	NF	EQUIP. GROUND BUS:	YES	LOCATED:	SEE PLANS
VOLTS:	480Y/277V	DISCONNECT:	MB	MOUNTING:	SURFACE
PHASE:	3	POLES:	3	TOTAL CONNECTED LOAD:	143.7
WIRE:	4	AMPS:	250	ESTIMATED DEMAND LOAD	143.7

CCT. NO.	SERVING	LOAD KVA or (HP)	CIRCUIT BREAKER (HACR) POLES	CIRCUIT BREAKER (HACR) SIZE	WIRE COUNT AND CONDUIT SIZE
1.	RTU-301	9.5	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
2.	RTU-302	9.5	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
3.	RTU-303	11.4	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
4.	RTU-304	12.6	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
5.	RTU-305	11.4	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
6.	RTU-306	9.5	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
7.	RTU-401	12.6	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
8.	RTU-402	12.6	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
9.	RTU-403	18.2	3	30	4-#10AND 1-#12 GND IN 0.75" CONDUIT
10.	RTU-404	18.2	3	30	4-#10AND 1-#12 GND IN 0.75" CONDUIT
11.	RTU-405	18.2	3	30	4-#10AND 1-#12 GND IN 0.75" CONDUIT
12.	SPARE	5.0*	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
13.	SPARE	5.0*	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
14.	SPARE	5.0*	3	20	-- --
15.	SPARE	5.0*	3	20	-- --
16.	SPARE	5.0*	3	20	-- --
17.	SPACE	--	3	20	-- --
18.	SPACE	--	3	20	-- --

PANEL "H5M1"

22 KAIC

MAKE:	SQ. D	SN:	YES	MAINS AMP:	400
TYPE:	NF	EQUIP. GROUND BUS:	YES	LOCATED:	SEE PLANS
VOLTS:	480Y/277V	DISCONNECT:	MB	MOUNTING:	SURFACE
PHASE:	3	POLES:	3	TOTAL CONNECTED LOAD:	216.6
WIRE:	4	AMPS:	400	ESTIMATED DEMAND LOAD	216.6

CCT. NO.	SERVING	LOAD KVA or (HP)	CIRCUIT BREAKER (HACR) POLES	CIRCUIT BREAKER (HACR) SIZE	WIRE COUNT AND CONDUIT SIZE
1.	RTU-501	9.5	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
2.	RTU-502	9.5	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
3.	RTU-503	9.5	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
4.	RTU-504	9.5	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
5.	RTU-505	9.5	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
6.	RTU-506	9.5	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
7.	RTU-507	11.4	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
8.	RTU-508	9.5	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
9.	RTU-509	9.5	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
10.	RTU-510	9.5	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
11.	RTU-511	9.5	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
12.	RTU-512	9.5	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
13.	RTU-513	9.5	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
14.	RTU-514	11.4	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
15.	RTU-601	9.5	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
16.	RTU-602	11.4	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
17.	RTU-603	9.5	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
18.	RTU-604	11.4	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
19.	RTU-605	9.5	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
20.	RTU-606	9.5	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
21.	RTU-607	9.5	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
22.	RTU-608	9.5	3	20	4-#12AND 1-#12 GND IN 0.75" CONDUIT
23.	SPARE	5.0*	3	20	-- --
24.	SPARE	5.0*	3	20	-- --
25.	SPARE	5.0*	3	20	-- --
26.	SPARE	5.0*	3	20	-- --
27.	SPACE	--	3	20	-- --
28.	SPACE	--	3	20	-- --
29.	SPACE	5.0*	3	20	-- --
30.	SPACE	5.0*	3	20	-- --

PANEL "H1L1"

AIC 14K

MAKE: SQ D	SN:	YES	MAINS AMP:	225
TYPE: NF	EQUIPMENT GROUND BUS:	YES	LOCATED:	SEE PLAN
VOLTS: 480Y/277V	DISCONNECT:	MB	MOUNTING:	RECESSED
PHASE: 3	POLES:	3	ENCLOSURE TYPE:	NEMA 1
WIRE: 4	AMPS:	225	ISOLATED GROUND:	NO

CIRC NO.	TRIP AMPS	NO. POLES	LOAD SERVED	PHASE LOAD VA A	PHASE LOAD VA B	PHASE LOAD VA C	LOAD SERVED	NO. POLES	TRIP AMPS	CIRC NO.
1	20	1	LTS S.W. CLASSRM 100-109	778 / 3000			LTG-EXTERIOR	1	20	2
3	20	1	LTS S.W. GROUP AREA 105		*500 / 1600		SPARE	1	20	4
5	20	1	LTS W. CLASSRM 117-130			*500 / 3000	SPARE	1	20	6
7	20	1	LTS S.W. GROUP AREA 123	*500 / 1600			SPARE	1	20	8
9	20	1	LTS S.E. CLASSRM 203-210		*500 / 3000		SPARE	1	20	10
11	20	1	LTS S.E. GROUP AREA 207			*500 / 3200	SPARE	1	20	12
13	20	1	LTS KIT,COMP LAB,SP ED,SPEECH	*500 / 1600			SPARE	1	20	14
15	50	1	SPARE		*500 / *500		SPARE	1	20	16
17	50	1	SPARE			*500 / *500	SPARE	1	20	18
19	50	1	SPARE	*500 / *500			SPARE	1	20	20
21	20	1	SPARE		*500 / *500		SPARE	1	20	22
23	20	1	SPARE			*500 / *500	SPARE	1	20	24
TOTAL CONNECTED LOAD (KVA): 25778 ESTIMATED DEMAND LOAD (KVA):18278			TOTAL	8978	7600	9200	DEMAND LINE AMPS: 22			

* ESTIMATED

PANEL "H3L1"

AIC 14K

MAKE: SQ D	SN:	YES	MAINS AMP:	225
TYPE: NF	EQUIPMENT GROUND BUS:	YES	LOCATED:	SEE PLAN
VOLTS: 480Y/277V	DISCONNECT:	MB	MOUNTING:	RECESSED
PHASE: 3	POLES:	3	ENCLOSURE TYPE:	NEMA 1
WIRE: 4	AMPS:	225	ISOLATED GROUND:	NO

CIRC NO.	TRIP AMPS	NO. POLES	LOAD SERVED	PHASE LOAD VA A	PHASE LOAD VA B	PHASE LOAD VA C	LOAD SERVED	NO. POLES	TRIP AMPS	CIRC NO.
1	20	1	LTS MEDIA,WKRM,FLEX	1204 / 1800			LTG-EXTERIOR	1	20	2
3	20	1	LTS W. RECP,OFFICE RM 305-320		1469 / 1800		LTG-CORRIDOR	1	20	4
5	20	1	LTS E. STORAGE, MUSIC, ELECT			2289 / 1500	LTG-GYM	1	20	6
7	20	1	LTS COMMONS	*500 / 3000			SPARE	1	20	8
9	20	1	INV		*500 / 2000		SPARE	1	20	10
11	20	1	SPARE			*500 / *500	SPARE	1	20	12
13	20	1	SPARE	*500 / *500			SPARE	1	20	14
15	50	1	SPARE		*500 / *500		SPARE	1	20	16
17	50	1	SPARE			*500 / *500	SPARE	1	20	18
19	50	1	SPARE	*500 / *500			SPARE	1	20	20
21	20	1	SPARE		*500 / *500		SPARE	1	20	22
23	20	1	SPARE			*500 / *500	SPARE	1	20	24
TOTAL CONNECTED LOAD (KVA): 26 ESTIMATED DEMAND LOAD (KVA): 22			TOTAL	8504	8269	6789	DEMAND LINE AMPS: 27			

* ESTIMATED

PANEL "H5L1"

AIC 14K

MAKE: SQ D	SN:	YES	MAINS AMP:	225
TYPE: NF	EQUIPMENT GROUND BUS:	YES	LOCATED:	SEE PLAN
VOLTS: 480Y/277V	DISCONNECT:	MB	MOUNTING:	RECESSED
PHASE: 3	POLES:	3	ENCLOSURE TYPE:	NEMA 1
WIRE: 4	AMPS:	225	ISOLATED GROUND:	NO

CIRC NO.	TRIP AMPS	NO. POLES	LOAD SERVED	PHASE LOAD VA A	PHASE LOAD VA B	PHASE LOAD VA C	LOAD SERVED	NO. POLES	TRIP AMPS	CIRC NO.
1	20	1	LTS W. CLASSRM 500-509	734 / 3000			LTG-EXTERIOR	1	20	2
3	20	1	LTS W. GROUP AREA 505		3189 / 1600		LTG-CORRIDOR	1	20	4
5	20	1	LTS N.W. CLASSRM 517-526			*500 / 2800	SPARE	1	20	6
7	20	1	LTS N.W. GROUP AREA 521	*500 / 3500			SPARE	1	20	8
9	20	1	LTS W. CLASSRM 602-609		*500 / 3500		SPARE	1	20	10
11	20	1	LTS N.W. GROUP AREA 607			*500 / 3200	SPARE	1	20	12
13	20	1	SPARE	*500 / 2800			SPARE	1	20	14
15	50	1	SPARE		*500 / *500		SPARE	1	20	16
17	50	1	SPARE			*500 / *500	SPARE	1	20	18
19	50	1	SPARE	*500 / *500			SPARE	1	20	20
21	20	1	SPARE		*500 / *500		SPARE	1	20	22
23	20	1	SPARE			*500 / *500	SPARE	1	20	24
TOTAL CONNECTED LOAD (KVA): 32 ESTIMATED DEMAND LOAD (KVA): 24			TOTAL	12034	10789	9000	DEMAND LINE AMPS: 29			

* ESTIMATED

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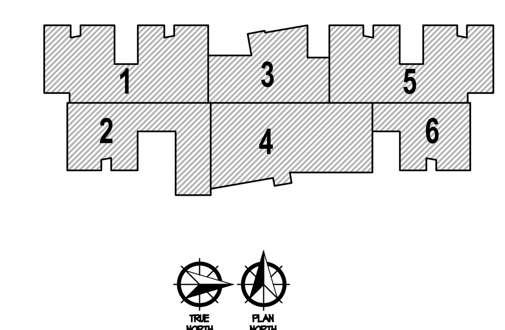
MORROW ELEMENTARY

OWASSO PUBLIC SCHOOLS
OWASSO, OK
2018
PROJECT



KEY PLAN

REVISIONS

03.06.18
ISSUE DATE

1507	PROJECT NO
DWM	DRAWN BY
WAM	CHK'D BY

ELECTRICAL SCHEDULES

E501
SHEET TITLE

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PANEL "L1P1" W/ 80kA/ø S.P.D.

AIC 14K

MAKE: SQ D	SN:	YES	MAINS AMP:	200	
TYPE: NQOD	EQUIPMENT GROUND BUS:	YES	LOCATED:	SEE PLAN	
VOLTS: 208Y/120V	DISCONNECT:	MLO	MOUNTING:	SURFACE	
PHASE: 3	POLES:	3	ENCLOSURE TYPE:	NEMA 1	
WIRE: 4	AMPS:	200	ISOLATED GROUND:	NO	

CIRC NO.	TRIP AMPS	NO. POLES	LOAD SERVED	PHASE LOAD VA A	PHASE LOAD VA B	PHASE LOAD VA C	LOAD SERVED	NO. POLES	TRIP AMPS	CIRC NO.
1	20	1	RCP-CLASSROOM 100	1000 / 1000			RCP-CLASSROOM 107	1	20	2
3	20	1	RCP-CLASSROOM 100		1080 / 1080		RCP-CLASSROOM 107	1	20	4
5	20	1	RCP-CLASSROOM 100			1000 / 1000	RCP-CLASSROOM 107	1	20	6
7	20	1	RCP-CLASSROOM 101	1000 / 1000			RCP-CLASSROOM 108	1	20	8
9	20	1	RCP-CLASSROOM 101		1080 / 1080		RCP-CLASSROOM 108	1	20	10
11	20	1	RCP-CLASSROOM 101			1000 / 1000	RCP-CLASSROOM 108	1	20	12
13	20	1	RCP-CLASSROOM 102	1000 / 1000			RCP-CLASSROOM 109	1	20	14
15	20	1	RCP-CLASSROOM 102		1080 / 1080		RCP-CLASSROOM 109	1	20	16
17	20	1	RCP-CLASSROOM 102			1000 / 1000	RCP-CLASSROOM 109	1	20	18
19	20	1	RCP-GROUP 105	540 / 900			RCP-GROUP 105	1	20	20
21	20	1	RCP-CLASSROOM 122		1080 / 1080		RCP-CLASSROOM 125	1	20	22
23	20	1	RCP-CLASSROOM 122			1000 / 1000	RCP-CLASSROOM 125	1	20	24
25	20	1	RCP-CLASSROOM 122	1000 / 1000			RCP-CLASSROOM 125	1	20	26
27	20	1	RCP-CLASSROOM 120		1080 / 1080		RCP-CLASSROOM 127	1	20	28
29	20	1	RCP-CLASSROOM 120			1000 / 1000	RCP-CLASSROOM 127	1	20	30
31	20	1	RCP-CLASSROOM 120	1000 / 1000			RCP-CLASSROOM 127	1	20	32
33	20	1	RCP-CLASSROOM 117		1080 / 1080		RCP-CLASSROOM 130	1	20	34
35	20	1	RCP-CLASSROOM 117			1000 / 1000	RCP-CLASSROOM 130	1	20	36
37	20	1	RCP-CLASSROOM 117	1000 / 1000			RCP-CLASSROOM 130	1	20	38
39	20	1	RCP-GROUP 123		540 / 900		RCP-GROUP 123	1	20	40
41	20	1	RCP-GROUP 105 SB			1000 / 1000	RCP-GROUP 123 SB	1	20	42
43	20	1	RCP-RESOURCE 106	1000 / 1000			RCP-RESOURCE 124	1	20	44
45	20	1	RCP-WORK 115		1260 / 1200		RCP-AREA 1 RR/ELEC/IT	1	20	46
47	20	2	RCP-RACK 1 IT 113.1			*500 / 1500	RCP-CART GROUP 105	1	20	48
49	20	–	--	*500 / 1500			RCP-CART GROUP 123	1	20	50
51	20	1	RCP-RACK 1 IT 113.1		*500 / 1500		SPARE	1	20	52
53	30	2	RCP-RACK 2 IT 113.1			*500 / 1500	SPARE	1	20	54
55	--	–	--	*500 / 1500			SPARE	1	20	56
57	20	1	RCP-RACK 2 IT 113.1		*500 / 1500		SPARE	1	20	58
59	20	1	SPARE			*500 / *500	SPARE	1	20	60
TOTAL CONNECTED LOAD (KVA): 53.3 ESTIMATED DEMAND LOAD (KVA): 33.1			TOTAL	17440	18860	17000	DEMAND LINE AMPS: 92.0			

* ESTIMATED

PANEL "L1P2" W/ 80kA/ø S.P.D.

AIC 14K

MAKE: SQ D	SN:	YES	MAINS AMP:	200	
TYPE: NQOD	EQUIPMENT GROUND BUS:	YES	LOCATED:	SEE PLAN	
VOLTS: 208Y/120V	DISCONNECT:	MLO	MOUNTING:	SURFACE	
PHASE: 3	POLES:	3	ENCLOSURE TYPE:	NEMA 1	
WIRE: 4	AMPS:	200	ISOLATED GROUND:	NO	

CIRC NO.	TRIP AMPS	NO. POLES	LOAD SERVED	PHASE LOAD VA A	PHASE LOAD VA B	PHASE LOAD VA C	LOAD SERVED	NO. POLES	TRIP AMPS	CIRC NO.
1	20	1	RCP-CLASSROOM 203	1000 / 1000			RCP-CLASSROOM 210	1	20	2
3	20	1	RCP-CLASSROOM 203		1080 / 1080		RCP-CLASSROOM 210	1	20	4
5	20	1	RCP-CLASSROOM 203			1000 / 1000	RCP-CLASSROOM 210	1	20	6
7	20	1	RCP-CLASSROOM 204	1000 / 1000			RCP-CLASSROOM 209	1	20	8
9	20	1	RCP-CLASSROOM 204		1080 / 1080		RCP-CLASSROOM 209	1	20	10
11	20	1	RCP-CLASSROOM 204			1000 / 1000	RCP-CLASSROOM 209	1	20	12
13	20	1	RCP-CLASSROOM 205	1000 / 1000			RCP-CLASSROOM 208	1	20	14
15	20	1	RCP-CLASSROOM 205		1080 / 1080		RCP-CLASSROOM 208	1	20	16
17	20	1	RCP-CLASSROOM 205			1000 / 1000	RCP-CLASSROOM 208	1	20	18
19	20	1	RCP-GROUP 207	540 / 900			RCP-GROUP 207	1	20	20
21	20	1	RCP-GROUP 207 SB		1000 / 1000		RCP-COMPUTER LAB 215	1	20	22
23	20	1	RCP-RESOURCE 206			1000 / 1000	RCP-COMPUTER LAB 215	1	20	24
25	20	1	RCP-CLASSROOM 602	1000 / 1000			RCP-FLOOR-COMP LAB 215	1	20	26
27	20	1	RCP-CLASSROOM 602		1000 / 1080		RCP-FLOOR-COMP LAB 215	1	20	28
29	20	1	RCP-CLASSROOM 602			1000 / 1000	RCP-FLOOR-COMP LAB 215	1	20	30
31	20	1	RCP-CLASSROOM 211	1000 / 1000			RCP-FLOOR-COMP LAB 215	1	20	32
33	20	1	RCP-CLASSROOM 211		1000 / 1080		RCP-FLOOR-COMP LAB 215	1	20	34
35	20	1	RCP-CLASSROOM 211			1000 / 1000	RCP-COMPUTER LAB 215	1	20	36
37	20	1	RCP-CLASSROOM 212	1000 / 1000			RCP-CORRIDOR &TLT 213	1	20	38
39	20	1	RCP-CLASSROOM 212		*500 / 900		RCP-CART GROUP 207	1	20	40
41	20	1	RCP-CLASSROOM 212			*500 / 1000	SPARE	1	20	42
43	20	1	RCP-TESTING 214	*500 / 900			SPARE	1	20	44
45	20	1	RCP-TESTING 215		*500 / 900		SPARE	1	20	46
47	20	1	RCP-TGB IT 113.1			*500 / 1000	SPARE	1	20	48
49	20	1	SECURITY PANEL IT 113.1	*500 / 1000			SPARE	1	20	50
51	20	1	CATV DIST IT 113.1		*500 / 1000		SPARE	1	20	52
53	20	1	SPARE			*500 / *500	SPARE	1	20	54
55	20	1	SPARE	*500 / *500			SPARE	1	20	56
57	20	1	SPARE		*500 / *500		SPARE	1	20	58
59	20	1	SPARE			*500 / *500	SPARE	1	20	60
TOTAL CONNECTED LOAD (KVA): 51.2 ESTIMATED DEMAND LOAD (KVA): 35.8			TOTAL	17340	16860	17000	DEMAND LINE AMPS: 99.5			

* ESTIMATED

PANEL "L1P3"

AIC 14K

MAKE: SQ D	SN:	YES	MAINS AMP:	100	
TYPE: NQOD	EQUIPMENT GROUND BUS:	YES	LOCATED:	SEE PLAN	
VOLTS: 208Y/120V	DISCONNECT:	MB	MOUNTING:	SEE PLAN	
PHASE: 3	POLES:	3	ENCLOSURE TYPE:	NEMA 1	
WIRE: 4	AMPS:	100	ISOLATED GROUND:	NO	

CIRC NO.	TRIP AMPS	NO. POLES	LOAD SERVED	PHASE LOAD VA A	PHASE LOAD VA B	PHASE LOAD VA C	LOAD SERVED	NO. POLES	TRIP AMPS	CIRC NO.
1	20	1	AUTO HAND SINKS	*500 / *500			AUTO HAND SINKS	1	20	2
3	20	1	RCP-EWC		1200 / 1200		RCP-EWC	1	20	4
5	20	1	EF-103			1500 / *300	EUH-2 TLT 213	1	20	6
7	30	2	FCU/CU-1	1400 / 1400			FCU/CU-1IT	2	30	8
9	--	--	--		1400 / 1400		--	--	--	10
11	20	1	RCP ROOF			1080 / 1080	RCP ROOF	1	20	12
13	20	1	RCP ROOF	1080 / 1080			RCP ROOF	1	20	14
15	20	1	EXHAUST FAN		*500 / 696		SPARE	1	20	16
17	20	1	SPARE			*500 / *500	SPARE	1	20	18
19	20	1	SPARE	*500 / *500			SPARE	1	20	20
21	20	1	SPARE		*500 / *500		SPARE	1	20	22
23	20	1	SPARE			*500 / *500	SPARE	1	20	24
25	20	1	SPARE	*500 / *500			SPARE	1	20	26
27	20	1	SPARE		*500 / *500		SPARE	1	20	28
29	20	1	SPARE			*500 / *500	SPARE	1	20	30
31	20	1	SPACE	-- / --			SPACE	1	20	32
33	20	1	SPACE		-- / --		SPACE	1	20	34
35	20	1	SPACE			-- / --	SPACE	1	20	36
37	20	1	SPACE	-- / --			SPACE	1	20	38
39	20	1	SPACE		-- / --		SPACE	1	20	40
41	20	1	SPACE			-- / --	SPACE	1	20	42
TOTAL CONNECTED LOAD (KVA): 23.1 ESTIMATED DEMAND LOAD (KVA): 15.0			TOTAL	7960	8200	6960	DEMAND LINE AMPS: 41.7			

* ESTIMATED

PANEL "L3P1" W/ 80kA/ø S.P.D.

AIC 22K

MAKE: SQ D	SN:	YES	MAINS AMP:	225	
TYPE: NQOD	EQUIPMENT GROUND BUS:	YES	LOCATED:	SEE PLAN	
VOLTS: 208/120	DISCONNECT:	MLO	MOUNTING:	SURFACE	
PHASE: 3	POLES:	3	ENCLOSURE TYPE:	NEMA 1	
WIRE: 4	AMPS:	225	ISOLATED GROUND:	NO	

CIRC NO.	TRIP AMPS	NO. POLES	LOAD SERVED	PHASE LOAD VA A	PHASE LOAD VA B	PHASE LOAD VA C	LOAD SERVED	NO. POLES	TRIP AMPS	CIRC NO.
1	20	1	RCP-WORKROOM 300	1000 / 1000			RCP-WORKROOM 328	1	20	2
3	20	1	RCP-WORKROOM 300		1500 / 1000		RCP-WORKROOM COPIER 328	1	20	4
5	20	1	RCP-WORKROOM 300			*500 / 1000	CARD READER/KEYPAD	1	20	6
7	20	1	RCP-FLEX 301	1200 / 1000			RCP-LOUNGE COUNTERTOP	1	20	8
9	20	1	RCP-FLEX 301		1000 / 1000		RCP-LOUNGE 313	1	20	10
11	20	1	RCP-MEDIA 302 & CORR			1200 / 600	RCP-LOUNGE 313 CORR 303	1	20	12
13	20	1	RCP-MEDIA 302	1200 / 1000			RCP-MEDIA SMART PANEL	1	20	14
15	20	1	RCP-MEDIA COUNTER 302		1000 / 1000		RCP-WORKROOM 319	1	20	16
17	20	1	RCP-MEDIA FLOOR BOX 302			1000 / 1000	RCP-WORKROOM 319	1	20	18
19	20	1	RCP-MEDIA FLOOR BOX 302	1000 / 1000			RCP-WORKROOM 319	1	20	20
21	20	1	RCP-RECEPTION 305		1000 / 1000		RCP-PTO WORKROOM 320	1	20	22
23	20	1	RCP-RECEPTION 305			800 / 1000	RCP-TLT 321,323,329	1	20	24
25	20	1	RCP-RECEPTION 305	800 / 1000			RCP-ELECT, RISER, MECH	1	20	26
27	20	1	RCP-RECEPTION 305		1500 / 1000		RCP RACK 3 HUB 322	1	20	28
29	20	1	RCP-OFFICE 306			1500 / 1000	RCP RACK 3 HUB 322	1	20	30
31	20	1	RCP-OFFICE 316	1500 / 1000			RCP RACK 3 HUB 322	2	30	32
33	20	1	RCP-OFFICE 317		1500 / 1000		--	--	--	34
35	20	1	RCP-NURSE309,TLT310,CORR303			1000 / 1200	CATV DIST. HUB 322	1	20	36
37	20	1	RCP-NURSE 309	1000 / 1000			SECURITY PANEL HUB 322	1	20	38
39	20	1	RCP-TLT 307,308, STORAGE 311		1000 / 800		RCP TTB HUB 322	1	20	40
41	20	1	RCP-CONFERENCE 312			1500 / 1000	RCP RACK 2 HUB 322	1	20	42
43	20	1	RCP-CONFERENCE 312	1500 / 1000			RCP RACK 2 HUB 322	1	20	44
45	20	1	FAA & FACP (RED BREAKER)		1500 / 1000		RCP RACK 2 HUB 322	2	30	46
47	20	1	SPARE			1500 / 1000	--	--	--	48
49	20	1	SPARE	1500 / 1000			RCP RACK 1 HUB 322	2	30	50
51	20	1	FLOW AND TAMPER RISER 324		1500 / *500		--	--	--	52
53	20	1	SPARE			1500 / 1200	RCP RACK 1 HUB 322	1	20	54
55	20	1	SPARE	1500 / *500			RCP RACK 1 HUB 322	1	20	56
57	20	1	SPARE		*500 / *500		SPARE	1	20	58
59	20	1	SPARE			*500 / *500	SPARE	1	20	60
TOTAL CONNECTED LOAD (KVA): 64.5 ESTIMATED DEMAND LOAD (KVA): 45.2			TOTAL	22700	20800	21000	DEMAND LINE AMPS: 125.5			

* ESTIMATED

PANEL "L3P2" W/ 80kA/ø S.P.D.

AIC 22K

MAKE: SQ D	SN:	YES	MAINS AMP:	100	
TYPE: NQOD	EQUIPMENT GROUND BUS:	YES	LOCATED:	SEE PLAN	
VOLTS: 208Y/120V	DISCONNECT:	MLO	MOUNTING:	SURFACE	
PHASE: 3	POLES:	3	ENCLOSURE TYPE:	NEMA 1	
WIRE: 4	AMPS:	100	ISOLATED GROUND:	NO	

CIRC NO.	TRIP AMPS	NO. POLES	LOAD SERVED	PHASE LOAD VA A	PHASE LOAD VA B	PHASE LOAD VA C	LOAD SERVED	NO. POLES	TRIP AMPS	CIRC NO.
1	20	1	RCP-TLT 402, 405, 406	1000 / 600			RCP-GYM SMART PANEL	1	20	2
3	20	1	RCP-STORAGE 416		1500 / *500		FGB1 GYM	1	20	4
5	20	1	RCP-STORAGE 407			1000 / 1000	GYM PROJ. SCREEN	1	20	6
7	20	1	RCP MUSIC 410	*1000 / 1000			RCP GYM	1	20	8
9	20	1	RCP MUSIC 410		*1000 / 1080		RCP GYM	1	20	10
11	20	1	RCP STORAGE 413			*500 / 1000	CARD READER/KEYPAD 422	1	20	12
13	20	1	RCP CUSTODIAL414&STOR412,413	*500 / 1000			CARD READER/KEYPAD GYM	1	20	14
15	20	1	RCP COMMON 417		*500 / 1080		SPARE	1	20	16
17	20	1	RCP TLT 420,421 VESTIBULE 418			*500 / 800	SPARE	1	20	18
19	20	1	RCP-CORRIDOR 423	*500 / 1080			SPARE	1	20	20
21	20	1	RCP-GYM TLT 425,426,STOR 427		*500 / 1080		SPARE	1	20	22
23	20	1	RCP-OFFICE 428			*500 / 1080	SPARE	1	20	24
25	20	1	SPARE	*500 / *500			SPARE	1	20	26
27	20	1	SPARE		*500 / *500		SPARE	1	20	28
29	20	1	SPARE			*500 / *500	SPARE	1	20	30
31	20	1	SPARE	*500 / *500			SPARE	1	20	32
33	20	1	SPARE		*500 / *500		SPARE	1	20	34
35	20	1	SPARE			*500 / *500	SPARE	1	20	36
37	20	1	SPACE	-- / --			SPACE	1	20	38
39	20	1	SPACE		-- / --		SPACE	1	20	40
41	20	1	SPACE			-- / --	SPACE	1	20	42
TOTAL CONNECTED LOAD (KVA): 27.3 ESTIMATED DEMAND LOAD (KVA): 20.0			TOTAL	9680	9240	8380	DEMAND LINE AMPS: --			

PANEL "TLCS" W/ 80kA/ø S.P.D.

AIC 10K

MAKE: SQ D	SN:	YES	MAINS AMP:	100	
TYPE: NQOD	EQUIPMENT GROUND BUS:	YES	LOCATED:	SEE PLAN	
VOLTS: 208Y/120V	DISCONNECT:	MB	MOUNTING:	SURFACE	
PHASE: 3	POLES:	3	ENCLOSURE TYPE:	NEMA 1	
WIRE: 4	AMPS:	100	ISOLATED GROUND:	NO	

CIRC NO.	TRIP AMPS	NO. POLES	LOAD SERVED	PHASE LOAD VA A	PHASE LOAD VA B	PHASE LOAD VA C	LOAD SERVED	NO. POLES	TRIP AMPS	CIRC NO.
1	20	1	RCP-E-FLEX CKT 1	1000 / 1000			RCP-E-FLEX CKT 2	1	20	2
3	20	1	RCP-E-FLEX CKT 3		1000 / 1000		RCP-E-FLEX CKT 4	1	20	4
5	20	1	RCP-E-FLEX CKT 5			1000 / 1000	RCP-E-FLEX CKT 6	1	20	6
7	20	1	RCP-E-FLEX CKT 7	1000 / 1000			RCP-E-FLEX CKT 8	1	20	8
9	20	1	RCP-E-FLEX CONTROL		1200 / 1000		AVC	1	20	10
11	20	1	RCP-A/V CLOSET			1200 / *500	AVC	1	20	12
13	20	1	PROJECTOR/PROJ. SCREEN	1200 / 1200			AVC	1	20	14
15	20	1	SPARE		1200 / *500		AVC	1	20	16
17	20	1	FLOOR BOX			*500 / *500	SPARE	1	20	18
19	20	1	SPACE	-- / --			SPACE	1	20	20
21	20	1	SPACE		-- / --		SPACE	1	20	22
23	20	1	SPACE			-- / --	SPACE	1	20	24
25	20	1	SPACE	-- / --			SPACE	1	20	26
27	20	1	SPACE		-- / --		SPACE	1	20	28
29	20	1	SPACE			-- / --	SPACE	1	20	30
TOTAL CONNECTED LOAD (KVA): 16.1 ESTIMATED DEMAND LOAD (KVA): 15.0			TOTAL	5700	5700	4700	DEMAND LINE AMPS: 41.7			

* ESTIMATED

PANEL "L3P3" W/ 80kA/ø S.P.D. (2-SECTION)

AIC 22K

MAKE: SQ D	SN:	YES	MAINS AMP:	250	
TYPE: NQOD	EQUIPMENT GROUND BUS:	YES	LOCATED:	SEE PLAN	
VOLTS: 208Y/120V	DISCONNECT:	MLO	MOUNTING:	SURFACE	
PHASE: 3	POLES:	3	ENCLOSURE TYPE:	NEMA 1	
WIRE: 4	AMPS:	250	ISOLATED GROUND:	NO	

CIRC NO.	TRIP AMPS	NO. POLES	LOAD SERVED	PHASE LOAD VA A	PHASE LOAD VA B	PHASE LOAD VA C	LOAD SERVED	NO. POLES	TRIP AMPS	CIRC NO.
1	20	1	AUTO HAND SINKS 327	*500 / *500			AUTO HAND SINKS 327	1	20	2
3	20	1	RCP-EWC 327		1200 / 1200		RCP-EWC 327	1	20	4
5	20	1	RCP-LOUNGE REFRIGERATOR 313			*500 / 1200	AUTO HAND SINKS 403	1	20	6
7	20	1	RCP-LOUNGE DISPOSAL 313	1200 / 1200			RCP-EWC 403	1	20	8
9	20	1	RCP-LOUNGE MICROWAVE 313		1200 / 1500		RCP-EWC 403	1	20	10
11	20	1	AUTO HAND SINKS 425,426			*500 / *500	AUTO HAND SINKS 419	1	20	12
13	20	1	RCP-EWC GYM VESTIBULE	*500 / 1200			AUTO HAND SINKS 419	1	20	14
15	20	1	RCP-EWC GYM VESTIBULE		1200 / 1200		RCP-EWC 419	1	20	16
17	20	1	RCP-EWC GYM VESTIBULE			1200 / 1200	RCP-EWC 419	1	20	18
19	30	2	BASKETBALL GOAL	1700 / 2000			--	--	--	20
21	--	--	--		1700 / 2000		EUH-1 RISER ROOM	3	20	22
23	30	2	BASKETBALL GOAL			1700 / 2000	--	--	--	24
25	--	--	--	*500 / 2000			RCP ROOF	1	20	26
27	30	2	BASKETBALL GOAL		*500 / 2000		RCP ROOF	1	20	28
29	--	--	--			*500 / 2000	RCP ROOF	1	20	30
31	30	2	BASKETBALL GOAL	1400 / 2000			FCU/CU-1	2	30	32
33	--	--	--		1400 / 2000		--	--	--	34
35	30	2	BASKETBALL GOAL			1400 / 2000	FCU/CU-1IT	2	30	36
37	--	--	--	1400 / 2000			--	--	--	38
39	30	2	BASKETBALL GOAL		696 / 2000		EF-304	1	15	40
41	--	--	--			*500 / 2000	EF-405	1	20	42
43	30	3	BLEACHERS	1000 / 2000			AUTO SHADES COMMONS	1	20	44
45	--	--	--		1000 / 2000		AUTO SHADES COMMONS	1	20	46
47	--	--	--			1000 / 2000	AUTO SHADES COMMONS	1	20	48
49	30	3	BLEACHERS	1000 / 2000			AUTO SHADES COMMONS	1	20	50
51	--	--	--		1000 / 2000		AUTO SHADES MEDIA	1	20	52
53	--	--	--			1000 / 2000	AUTO SHADES MEDIA	1	20	54
55	30	3	BLEACHERS	1350 / 2000			EF-402,404	1	20	56
57	--	--	--		*500 / 2000		AUTOMATIC DOOR CORR 303	1	20	58
59	--	--	--			*500 / 2000	MAGNETIC DOOR LOCKS 303	1	20	60
61	30	3	BLEACHERS	*500 / 2000			AUTOMATIC DOOR CORR 422	1	20	62
63	--	--	--		*500 / 2000		AUTOMATIC DOOR GYM	1	20	64
65	--	--	--			*500 / 2000	RCP-NURSE REFRIGERATOR	1	20	66
67	30	3	SPARE	*500 / *500			WATER HEATER	1	20	68
69	--	--	--		*500 / *500		WATER HEATER	1	20	70
71	--	--	--			*500 / *500	SPARE	--	--	72
73	30	3	SPARE	*500 / *500			SPARE	--	--	74
75	--	--	--		*500 / *500		SPARE	--	--	76
77	--	--	--			*500 / *500	SPARE	--	--	78
79	30	3	SPARE	*500 / *500			SPARE	--	--	80
81	--	--	--		*500 / *500		SPARE	--	--	82
83	--	--	--			*500 / *500	SPARE	--	--	84
TOTAL CONNECTED LOAD (KVA): 97.9 ESTIMATED DEMAND LOAD (KVA): 63.6			TOTAL	32950	33796	31200	DEMAND LINE AMPS: 176.8			

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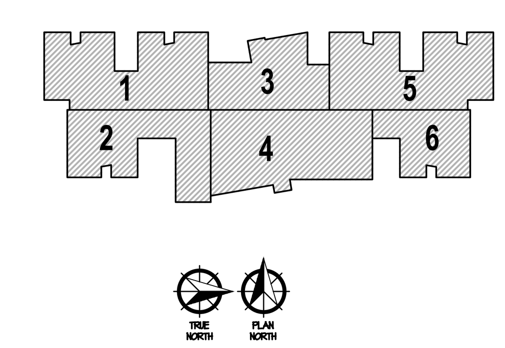
MORROW ELEMENTARY

OWASSO PUBLIC SCHOOLS
OWASSO, OK
2018

PROJECT



KEY PLAN

REVISIONS

03.06.18

ISSUE DATE

1707 PROJECT NO
DWM DRAWN BY
WAM CHK'D BY

ELECTRICAL SCHEDULES

PSA CONSULTING ENGINEERS, INC.
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OKLAHOMA CITY, OKLAHOMA 73116
(405) 840-1901 FAX (405) 840-1916
COA # 390 - RENEWAL DATE 6/30/2019

E502

SHEET TITLE

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PANEL "L5P1" W/ 80kA/ø S.P.D.

AIC 14K

MAKE: SQ D
TYPE: NQOD
VOLTS: 208Y/120V
PHASE: 3
WIRE: 4

SN:
EQUIPMENT GROUND BUS: YES
DISCONNECT: MLO
POLES: 3
AMPS: 200

MAINS AMP: 200
LOCATED: SEE PLAN
MOUNTING: SURFACE
ENCLOSURE TYPE: NEMA 1
ISOLATED GROUND: NO

CIRC NO.	TRIP AMPS	NO. POLES	LOAD SERVED	PHASE LOAD VA A	PHASE LOAD VA B	PHASE LOAD VA C	LOAD SERVED	NO. POLES	TRIP AMPS	CIRC NO.
1	20	1	RCP-CLASSROOM 500	1000	1000		RCP-CLASSROOM 507	1	20	2
3	20	1	RCP-CLASSROOM 500		1080	1080	RCP-CLASSROOM 507	1	20	4
5	20	1	RCP-CLASSROOM 500			1000	1000 RCP-CLASSROOM 507	1	20	6
7	20	1	RCP-CLASSROOM 501	1000	1000		RCP-CLASSROOM 508	1	20	8
9	20	1	RCP-CLASSROOM 501		1080	1080	RCP-CLASSROOM 508	1	20	10
11	20	1	RCP-CLASSROOM 501			1000	1000 RCP-CLASSROOM 508	1	20	12
13	20	1	RCP-CLASSROOM 502	1000	1000		RCP-CLASSROOM 509	1	20	14
15	20	1	RCP-CLASSROOM 502		1080	1080	RCP-CLASSROOM 509	1	20	16
17	20	1	RCP-CLASSROOM 502			1000	1000 RCP-CLASSROOM 509	1	20	18
19	20	1	RCP-GROUP 505	540	900		RCP-GROUP 505	1	20	20
21	20	1	RCP-CLASSROOM 519		1080	1080	RCP-CLASSROOM 526	1	20	22
23	20	1	RCP-CLASSROOM 519			1000	1000 RCP-CLASSROOM 526	1	20	24
25	20	1	RCP-CLASSROOM 519	1000	1000		RCP-CLASSROOM 526	1	20	26
27	20	1	RCP-CLASSROOM 518		1080	1080	RCP-CLASSROOM 525	1	20	28
29	20	1	RCP-CLASSROOM 518			1000	1000 RCP-CLASSROOM 525	1	20	30
31	20	1	RCP-CLASSROOM 518	1000	1000		RCP-CLASSROOM 525	1	20	32
33	20	1	RCP-CLASSROOM 517		1080	1080	RCP-CLASSROOM 524	1	20	34
35	20	1	RCP-CLASSROOM 517			1000	1000 RCP-CLASSROOM 524	1	20	36
37	20	1	RCP-CLASSROOM 517	1000	1000		RCP-CLASSROOM 524	1	20	38
39	20	1	RCP-GROUP 521		540	900	RCP-GROUP 521	1	20	40
41	20	1	RCP-GROUP 505 SB			1000	1000 RCP-GROUP 521 SB	1	20	42
43	20	1	RCP-RESOURCE 506	1000	1000		RCP-RESOURCE 520	1	20	44
45	20	1	RCP-WORKROOM 515		1260	+500	RCP-AREA 5 RR/ELEC/IT	1	20	46
47	20	1	RCP-COPIER WORKROOM 515			+500	1200 RCP-CART GROUP 505	1	20	48
49	20	1	SPARE	+500	+500		RCP-CART GROUP 521	1	20	50
51	20	1	SPARE		+500	+500	SPARE	1	20	52
53	20	1	SPARE			+500	+500 SPARE	1	20	54
55	20	1	SPARE	+500	+500		SPARE	1	20	56
57	20	1	SPARE		+500	+500	SPARE	1	20	58
59	20	1	SPARE			+500	+500 SPARE	1	20	60
				TOTAL	17440	18160	17700			

TOTAL CONNECTED LOAD (KVA): 53.3
ESTIMATED DEMAND LOAD (KVA): 37.3
DEMAND LINE AMPS: 103.7

* ESTIMATED

PANEL "L5P2" W/ 80kA/ø S.P.D.

AIC 14K

MAKE: SQ D
TYPE: NQOD
VOLTS: 208Y/120V
PHASE: 3
WIRE: 4

SN:
EQUIPMENT GROUND BUS: YES
DISCONNECT: MLO
POLES: 3
AMPS: 125

MAINS AMP: 125
LOCATED: SEE PLAN
MOUNTING: SURFACE
ENCLOSURE TYPE: NEMA 1
ISOLATED GROUND: NO

CIRC NO.	TRIP AMPS	NO. POLES	LOAD SERVED	PHASE LOAD VA A	PHASE LOAD VA B	PHASE LOAD VA C	LOAD SERVED	NO. POLES	TRIP AMPS	CIRC NO.
1	20	1	RCP-CLASSROOM 603	1000	1000		RCP-CLASSROOM 609	1	20	2
3	20	1	RCP-CLASSROOM 603		1080	1080	RCP-CLASSROOM 609	1	20	4
5	20	1	RCP-CLASSROOM 603			1000	1000 RCP-CLASSROOM 609	1	20	6
7	20	1	RCP-CLASSROOM 604	1000	1000		RCP-CLASSROOM 610	1	20	8
9	20	1	RCP-CLASSROOM 604		1080	1080	RCP-CLASSROOM 610	1	20	10
11	20	1	RCP-CLASSROOM 604			1000	1000 RCP-CLASSROOM 610	1	20	12
13	20	1	RCP-CLASSROOM 605	1000	1000		RCP-CLASSROOM 611	1	20	14
15	20	1	RCP-CLASSROOM 605		1080	1080	RCP-CLASSROOM 611	1	20	16
17	20	1	RCP-CLASSROOM 605			1000	1000 RCP-CLASSROOM 611	1	20	18
19	20	1	RCP-GROUP 607	540	900		RCP-GROUP 607	1	20	20
21	20	1	RCP-GROUP 607 SB		1080	1000	DOOR HOLD OPEN CORR 200	1	20	22
23	20	1	RCP-RESOURCE 606			*500	1000 RCP-CART GROUP 607	1	20	24
25	20	1	RCP-CLASSROOM 602	*500	1000		SPARE	1	20	26
27	20	1	RCP-CLASSROOM 602		*500	1080	SPARE	1	20	28
29	20	1	RCP-CLASSROOM 602			*500	1000 SPARE	1	20	30
31	20	1	SPARE	*500	*500		SPARE	1	20	32
33	20	1	SPARE		*500	*500	SPARE	1	20	34
35	20	1	SPARE			*500	*500 SPARE	1	20	36
37	20	1	SPARE	*500	*500		SPARE	1	20	38
39	20	1	SPARE		*500	*500	SPARE	1	20	40
41	20	1	SPARE			*500	*500 SPARE	1	20	42
				TOTAL	10940	11840	11000			

TOTAL CONNECTED LOAD (KVA): 33.8
ESTIMATED DEMAND LOAD (KVA): 23.6
DEMAND LINE AMPS: 65.6

* ESTIMATED

PANEL "L5P3"

AIC 14K

MAKE: SQ D
TYPE: NQOD
VOLTS: 208Y/120V
PHASE: 3
WIRE: 4

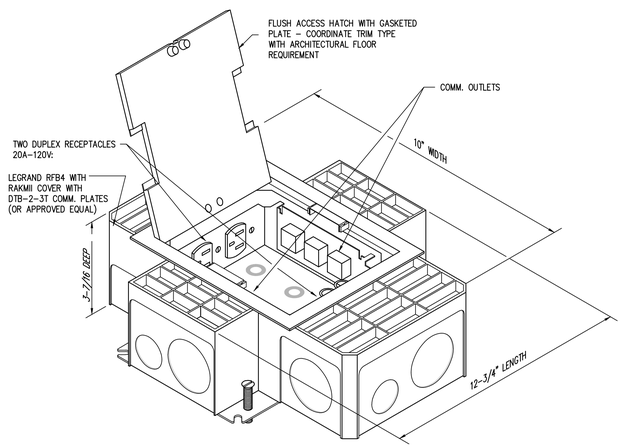
SN:
EQUIPMENT GROUND BUS: YES
DISCONNECT: MLO
POLES: 3
AMPS: 100

MAINS AMP: 100
LOCATED: SEE PLAN
MOUNTING: SURFACE
ENCLOSURE TYPE: NEMA 1
ISOLATED GROUND: NO

CIRC NO.	TRIP AMPS	NO. POLES	LOAD SERVED	PHASE LOAD VA A	PHASE LOAD VA B	PHASE LOAD VA C	LOAD SERVED	NO. POLES	TRIP AMPS	CIRC NO.
1	20	1	AUTO HAND SINKS	*500	*500		AUTO HAND SINKS	1	20	2
3	20	1	RCP-EWC		1200	1200	RCP-EWC	1	20	4
5	20	1	RCP ROOF			*500	*500 RCP ROOF	1	20	6
7	30	2	FCU/CU-3	1400	1400		FCU/CU-3IT	2	30	8
9	--	--	--		1400	1400	--	--	--	10
11	20	1	RCP ROOF			*500	*500 RCP ROOF	1	20	12
13	20	1	RCP ROOF	*500	*500		RCP ROOF	1	20	14
15	15	1	EF-502		*500	696	SPARE	1	20	16
17	--	--	SPARE			*500	*500 SPARE	1	20	18
19	--	--	SPARE	*500	*500		SPARE	1	20	20
21	--	--	SPARE		*500	*500	SPARE	1	20	22
23	--	--	SPARE			*500	*500 SPARE	1	20	24
25	--	--	SPARE	*500	*500		SPARE	1	20	26
27	--	--	SPARE		*500	*500	SPARE	1	20	28
29	--	--	SPARE			*500	*500 SPARE	1	20	30
31	--	--	SPACE	--	--		SPACE	1	20	32
33	--	--	SPACE		--	--	SPACE	1	20	34
35	--	--	SPACE			--	-- SPACE	1	20	36
37	--	--	SPACE	--	--		SPACE	1	20	38
39	--	--	SPACE		--	--	SPACE	1	20	40
41	--	--	SPACE			--	-- SPACE	1	20	42
				TOTAL	7300	8396	5000			

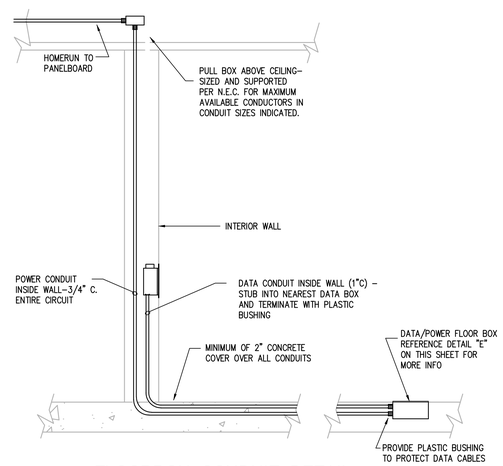
TOTAL CONNECTED LOAD (KVA): 20.7
ESTIMATED DEMAND LOAD (KVA): 15.0
DEMAND LINE AMPS: 41.7

* ESTIMATED



A RECESSED FLOORBOX DETAIL

NO SCALE



B FLOORBOX CONDUIT DETAIL

NO SCALE

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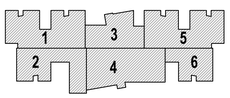
MORROW ELEMENTARY

OWASSO PUBLIC SCHOOLS
OWASSO, OK
2018
PROJECT



KEY PLAN

REVISIONS

03.06.18
ISSUE DATE

1507 | PROJECT NO
DWM | DRAWN BY
WAM | CHKD BY

ELECTRICAL SCHEDULES

E503
SHEET TITLE

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LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUF.	CATALOG NUMBER	MOUNTING	LAMPS			
					DESCRIPTION	COLOR TEMP.	MIN. CRI	BALLAST
A	2X4 EDGE-LIT LED PANEL	LSI	SFP24-LED-50-UE-DIM-35	RECESSED	50W LED	3500	80	ELECTRONIC
AE	2X4 EDGE-LIT LED PANEL	LSI	SFP24-LED-50-UE-DIM-35-EM	RECESSED	50W LED	3500	80	ELECTRONIC
A2	2X2 EDGE-LIT LED PANEL	LSI	SFP22-LED-30-UE-DIM-35	RECESSED	30W LED	3500	80	ELECTRONIC
A2E	2X2 EDGE-LIT LED PANEL	LSI	SFP22-LED-30-UE-DIM-35-EM	RECESSED	30W LED	3500	80	ELECTRONIC
C	LED HIGH BAY LIGHTING (GYM)	GE	ABV3-0-18-T-48-1C-Q-V-ST-K-Q-W	PENDANT	109W LED	4000	80	ELECTRONIC
C2	LED LENSED STRIP - 4FT.	LSI	SDL-4-LED-SS-WW-UE	SURFACE	34W LED	3500	80	ELECTRONIC
C2E	LED LENSED STRIP - 4FT.-EMERGENCY	LSI	SDL-4-LED-SS-WW-UE-EM	SURFACE	34W LED	3500	80	ELECTRONIC
D	4" SQUARE LED RECESSED DOWNLIGHT	SPECTRUM	SGE4SQLEDOS20L35KEX/CA02440SPTSO	RECESSED	21W LED	3500	84	ELECTRONIC
DE	4" SQUARE LED RECESSED DOWNLIGHT - EMEREGENCY	SPECTRUM	SGE4SQLEDOS20L35KEXEM/CA02440SPTSO	RECESSED	21W LED	3500	84	ELECTRONIC
D3	4" ROUND LED RECESSED DOWNLIGHT	SPECTRUM	SGE4LEDOS10L35KEX/CA02440SSGSO	RECESSED	11W LED	3500	84	ELECTRONIC
F	1X4 EDGE-LIT LED PANEL	LSI	SFP14-LED-40-UE-DIM-35	RECESSED	40W LED	3500	80	ELECTRONIC
FE	1X4 EDGE-LIT LED PANEL	LSI	SFP14-LED-40-UE-DIM-35-EM	RECESSED	40W LED	3500	80	ELECTRONIC
LR4	LED RECTILINEAR RECESSED LIGHT - 4 FT.	CORONET	LSR4 LED-4FT-LTG1-3500-UNV-T15/16-DB	RECESSED	29W LED	3500	80	ELECTRONIC
LR4E	LED RECTILINEAR RECESSED LIGHT - 4 FT. - EMERGENCY	CORONET	LSR4 LED-4FT-LTG1-3500-UNV-T15/16-DB-EM	RECESSED	29W LED	3500	80	ELECTRONIC
LR4H	LED RECTILINEAR RECESSED LIGHT - 4 FT.	CORONET	LSR4 LED-4FT-LTG3-3500-UNV-T15/16-DB	RECESSED	35W LED	3500	80	ELECTRONIC
LR6	LED RECTILINEAR RECESSED LIGHT - 6 FT.	CORONET	LSR4 LED-6FT-LTG1-3500-UNV-T15/16-DB	RECESSED	44W LED	3500	80	ELECTRONIC
LR6E	LED RECTILINEAR RECESSED LIGHT - 6 FT. EMEREGENCY	CORONET	LSR4 LED-6FT-LTG1-3500-UNV-T15/16-DB-EM	RECESSED	44W LED	3500	80	ELECTRONIC
LR6L	LED RECTILINEAR RECESSED LIGHT - 6 FT.	CORONET	LSR4 LED-6FT-LTG2-3500-UNV-T15/16-DB	RECESSED	30W LED	3500	80	ELECTRONIC
LR6LE	LED RECTILINEAR RECESSED LIGHT - 6 FT. EMEREGENCY	CORONET	LSR4 LED-6FT-LTG2-3500-UNV-T15/16-DB-EM	RECESSED	30W LED	3500	80	ELECTRONIC
LR8	LED RECTILINEAR RECESSED LIGHT - 8 FT.	CORONET	LSR4 LED-8FT-LTG1-3500-UNV-T15/16-DB	RECESSED	58W LED	3500	80	ELECTRONIC
LR8E	LED RECTILINEAR RECESSED LIGHT - 8 FT. EMEREGENCY	CORONET	LSR4 LED-8FT-LTG1-3500-UNV-T15/16-DB-EM	RECESSED	58W LED	3500	80	ELECTRONIC
LR10	LED RECTILINEAR RECESSED LIGHT - 10 FT.	CORONET	LSR4 LED-10FT-LTG3-3500-UNV-T15/16-DB	RECESSED	88W LED	3500	80	ELECTRONIC
LR10E	LED RECTILINEAR RECESSED LIGHT - 10 FT. EMERGENCY	CORONET	LSR4 LED-10FT-LTG3-3500-UNV-T15/16-DB-EM	RECESSED	88W LED	3500	80	ELECTRONIC
LR12	LED RECTILINEAR RECESSED LIGHT - 12 FT.	CORONET	LSR4 LED-12FT-LTG3-3500-UNV-T15/16-DB	RECESSED	108W LED	3500	80	ELECTRONIC
LR12E	LED RECTILINEAR RECESSED LIGHT - 12 FT. EMERGENCY	CORONET	LSR4 LED-12FT-LTG3-3500-UNV-T15/16-DB-EM	RECESSED	108W LED	3500	80	ELECTRONIC
LSR2-L	LED RECTILINEAR RECESSED LIGHT - CONTINUOUS	CORONET	LSR2 LED-RECT 28.5'x16.7'-LTG2-3500-UNV-DB-W-NT-SD	RECESSED	455W LED	3500	80	ELECTRONIC
LSA	LED LINEAR SURFACE LIGHT - CONTINUOUS	FORUM	SAD-34-65LED35-SAT-S-12' 2 3/4" ANGLE CUT-UNV-WH-EMLED	SURFACE	76W LED	3500	80	ELECTRONIC
LSC1	LED CURVED SURFACE LIGHT - CONTINUOUS	FORUM	ARC-D-34-65LED35-SAT-S-CURV PATT. 14' 7 9/16"-UNV-WH-SF	SURFACE	89W LED	3500	80	ELECTRONIC
LSC2	LED CURVED SURFACE LIGHT - CONTINUOUS	FORUM	ARC-D-34-65LED35-SAT-S-CURV PATT. 15' 4 5/16"-UNV-WH-SF	SURFACE	94W LED	3500	80	ELECTRONIC
P6B	LED LINEAR PENDANT - SHERWIN WILLIAMS SPECIFIC-BURGUNDY	CORONET	LS4 LED-6FT-LTG2-3500-UNV-AC-DB-CC(SW2704)	PENDANT	30W LED	3500	80	ELECTRONIC
P6T	LED LINEAR PENDANT - SHERWIN WILLIAMS SPECIFIC-TEAL	CORONET	LS4 LED-6FT-LTG2-3500-UNV-AC-DB-CC(SW7618)	PENDANT	30W LED	3500	80	ELECTRONIC
P6Y	LED LINEAR PENDANT - SHERWIN WILLIAMS SPECIFIC-YELLOW	CORONET	LS4 LED-6FT-LTG2-3500-UNV-AC-DB-CC (SW6683)	PENDANT	30W LED	3500	80	ELECTRONIC
P6MY	LED LINEAR PENDANT - 6FT SHERWIN WILLIAMS SPECIFIC-YELLOW	CORONET	LS4 LED-6FT-LTG1-3500-UNV-AC-DB-CC (SW6683)	PENDANT	44W LED	3500	80	ELECTRONIC
P6S	LED LINEAR PENDANT - 6FT SILVER	CORONET	LS4 LED-6FT-LTG3-3500-UNV-AC-DB-CC SILVER	PENDANT	53W LED	3500	80	ELECTRONIC
P6SE	LED LINEAR PENDANT - 6FT SILVER	CORONET	LS4 LED-6FT-LTG3-3500-UNV-AC-DB-CC SILVER-EM	PENDANT	53W LED	3500	80	ELECTRONIC
P6SH	LED LINEAR PENDANT - 6FT SHERWIN WILLIAMS SPECIFIC - YELLOW	CORONET	LS4 LED-6FT-LTG3-3500-UNV-AC-DB-CC (SW 6683)	PENDANT	53W LED	3500	80	ELECTRONIC
P6SHE	LED LINEAR PENDANT - 6FT SHERWIN WILLIAMS SPECIFIC - YELLOW	CORONET	LS4 LED-6FT-LTG3-3500-UNV-AC-DB-CC (SW 6683) - EM	PENDANT	53W LED	3500	80	ELECTRONIC
P16B	LED YOYO PENDANT - SHERWIN WILLIAMS SPECIFIC - BURGUNDY	IMPACTLTG	P5016 35HI (SW 2704)	PENDANT	42W LED	3500	80	ELECTRONIC
P16Y	LED YOYO PENDANT - SHERWIN WILLIAMS SPECIFIC - YELLOW	IMPACTLTG	P5016 35HI (SW 6683)	PENDANT	42W LED	3500	80	ELECTRONIC
P24	LED SLIKK PENDANT - WILSONART SPECIFIC - WALNUT HEIGHTS	IMPACTLTG	P6224 35HI (WILSONART 7965K) QPD	PENDANT	54W LED	3500	80	ELECTRONIC
P48B	LED WHT.WAL PENDANT - SHERWIN WILLIAMS SPECIFIC - BURGUNDY	IMPACTLTG	P6348 35LO (SW 2704) QPD SBPC SSCNPY	PENDANT	54W LED	3500	80	ELECTRONIC
P48Y	LED WHT.WAL PENDANT - SHERWIN WILLIAMS SPECIFIC - YELLOW	IMPACTLTG	P6348 35LO (SW 6683) QPD SBPC SSCNPY	PENDANT	54W LED	3500	80	ELECTRONIC
PR	6" LED DODGER PENDANT	SPECTRUM	PAC0624LEDGV15L35KEXCDPTFG6	PENDANT	9W LED	3500	85	ELECTRONIC
PB	LED BULIT PENDANT - SHERWIN WILLIAMS SPECIFIC - BURGUNDY	IMPACTLTG	P3308 35HI (SW 2704) BL SBPC	PENDANT	25W LED	3500	80	ELECTRONIC
P8B	LED LINEAR PENDANT - 8FT SHERWIN WILLIAMS SPECIFIC -BURGUNDY	FORUM	AQD-32-65LED40-SAT-HXX-8-UNV-CC (SW 2704)-EMLED	PENDANT	52W LED	4000	80	ELECTRONIC
P4Y	LED LINEAR PENDANT - 4FT SHERWIN WILLIAMS SPECIFIC - YELLOW	FORUM	AQD-32-65LED40-SAT-HXX-4-UNV-CC (SW 6683)	PENDANT	26W LED	4000	80	ELECTRONIC
P6T	LED LINEAR PENDANT - 6FT SHERWIN WILLIAMS SPECIFIC - TEAL	FORUM	AQD-32-65LED40-SAT-HXX-6-UNV-CC (SW 7618)	PENDANT	39W LED	4000	80	ELECTRONIC
RL2	LED RECESSED LINEAR - LED TAPE WITH CHANNEL	KLUS	B552-A-FC-35-HO(2X K-35-1275-24V)-2FT-KMA	RECESSED	18W LED	3500	90	ELECTRONIC
RL3	LED RECESSED LINEAR - LED TAPE WITH CHANNEL	KLUS	B552-A-FC-35-HO(2X K-35-1275-24V)-3FT-KMA	RECESSED	27W LED	3500	90	ELECTRONIC
RL4	LED RECESSED LINEAR - LED TAPE WITH CHANNEL	KLUS	B552-A-FC-35-HO(2X K-35-1275-24V)-4FT-KMA	RECESSED	36W LED	3500	90	ELECTRONIC
RL7	LED RECESSED LINEAR - LED TAPE WITH CHANNEL	KLUS	B552-A-FC-35-HO(2X K-35-1275-24V)-7FT-KMA	RECESSED	63W LED	3500	90	ELECTRONIC
RL12	LED RECESSED LINEAR - LED TAPE WITH CHANNEL	KLUS	B552-A-FC-35-HO(2X K-35-1275-24V)-6FT-KMA	RECESSED	108W LED	3500	90	ELECTRONIC
RL16	LED RECESSED LINEAR - LED TAPE WITH CHANNEL	KLUS	B552-A-FC-35-HO(2X K-35-1275-24V)-8FT-KMA	RECESSED	144W LED	3500	90	ELECTRONIC
S1	ELLIPSOIDAL	TIMES SQUARE	CLP001-PHD236-WHT-120V	PIPE	180W LED	RGBA	NA	ELECTRONIC
S2	PAR	TIMES SQUARE	PRISM PAR 1 RGBA-120V	PIPE	101W LED	RGBA	NA	ELECTRONIC
S3	LIGHT BAR	TIMES SQUARE	B-2805FC-120V	PIPE	620W LED	RGBA	NA	ELECTRONIC
DD	4" SQUARE LED RECESSED WET LISTED DOWNLIGHT	SPECTRUM	SGE4SQLEDOS10L40KE2/CA02440SGHSOWL	RECESSED	21W LED	3500	84	ELECTRONIC
DDE	4" SQUARE LED RECESSED WET LISTED DOWNLIGHT - EMEREGENCY	SPECTRUM	SGE4SQLEDOS10L40KE2EM/CA02440SGHSOWL	RECESSED	21W LED	3500	84	ELECTRONIC
FP	FLAG POLE LIGHT	LSI	XIG-B-LED-19-350-NW-UE-SP10-BLK	INGRADE	22W LED	4000	80	ELECTRONIC
LP	PARKING LOT FIXTURE W/POLE	LSI	XLCS-5E-LED-HO-40-UE-BLK / 4SQB3-S11G-23-S-BLK-4BC	POLE	140W LED	4000	70	ELECTRONIC
LP2	PARKING LOT FIXTURE W/POLE	LSI	XLCS-FTE-LED-HO-40-UE-BLK / 4SQB3-S11G-23-S-BLK-4BC	POLE	140W LED	4000	70	ELECTRONIC
SL	SIGN LIGHTING	LIGMAN	ULA-30001-28W-E-W40-02-120/277-DIM	SURFACE	28W LED	4000	80	ELECTRONIC
W1	LED WALL PACK	LIGMAN	UVK-30004-55WLED-T4-W40-01	WALL	55W LED	4000	80	ELECTRONIC
W2	LED WALL SCONCE	LIGMAN	UMT-31406-2X6WLED-W40-05-120/277	WALL	12W LED	4000	80	ELECTRONIC
W3	LED WALL SCONCE	LIGMAN	UMT-31427-6WLED-W40-05-120/277	WALL	6W LED	4000	80	ELECTRONIC
W4	LED WALL SCONCE	LIGMAN	UMT-31426-14WLED-W-W40-05-120/277	WALL	14W LED	4000	80	ELECTRONIC
W4E	LED WALL SCONCE	LIGMAN	UMT-31426-14WLED-W-W40-05-120/277-EMR	WALL	14W LED	4000	80	ELECTRONIC
WE	EMERGENCY WALL PACK	LIGHTALARMS	CAM-SD-B-FT	WALL	24W LED	5000	80	ELECTRONIC
⊗	EDGE LIT LED EXIT SIGNAGE *1	LIGHTALARMS	SLEDNARMD2UA	SURFACE	LED	N/A	N/A	N/A

REMARKS:

*1. PROVIDE NUMBER OF FACES AND CHEVRON ARROWS AS REQUIRED.

*2. CONFIRM LENGTHS PER DRAWINGS.

NOTE:

COORDINATE ALL SW COLORS AND WOOD FINISHES WITH ARCHITECTURAL DRAWINGS

GENERAL:

PRIOR APPROVALS WILL BE ACCEPTED FOR ALL FIXTURES UNLESS OTHERWISE NOTED. ALL FIXTURES SUBMITTED FOR REVIEW SHALL BE SUBMITTED NO LESS THAN 14 DAYS PRIOR TO BID OPENING IN HARD COPY FORMAT. ELECTRONIC SUBMITTALS WILL NOT BE ACCEPTED. ALL APPROVED FIXTURES SHALL BE LISTED BY ADDENDA. ANY FIXTURE SUBMITTED FOR REVIEW AND NOT SPECIFICALLY LISTED IN ADDENDA SHALL BE CONSIDERED DISAPPROVED. SUBMITTAL DATA SHALL INCLUDE EVIDENCE OF EQUAL PERFORMANCE, CONSTRUCTION, AND APPEARANCE. CUSTOM FABRICATED FIXTURES WILL NOT BE ACCEPTED. THE ENGINEER RESERVES THE RIGHT TO REQUEST TABLE-TOP TESTING FOR ANY SUBMITTED FIXTURE. ANY REQUIRED MODIFICATION TO THE ELECTRICAL SYSTEM AS DESIGNED DUE TO THE USE OF SUBSTITUTE FIXTURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. COLOR SHALL BE APPROVED BY ARCHITECT PRIOR TO RELEASE OF FIXTURE. CONTRACTOR SHALL PROVIDE FULL RAL SPECTRUM OF COLORS FOR LIGHT FIXTURES.

PSA CONSULTING ENGINEERS, INC.
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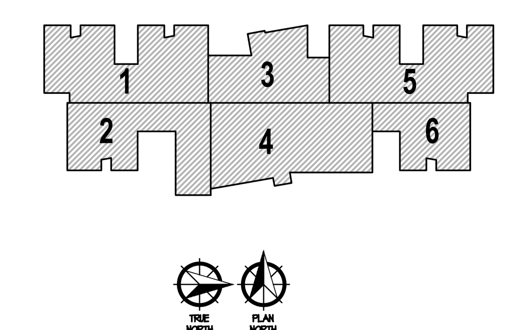
MORROW ELEMENTARY

OWASSO PUBLIC SCHOOLS
OWASSO, OK
2018
PROJECT



KEY PLAN

REVISIONS

03.06.18
ISSUE DATE

1507 | PROJECT NO
DWM | DRAWN BY
WAM | CHK'D BY

ELECTRICAL LIGHT FI□TURE SCHEDULE

E504
SHEET TITLE

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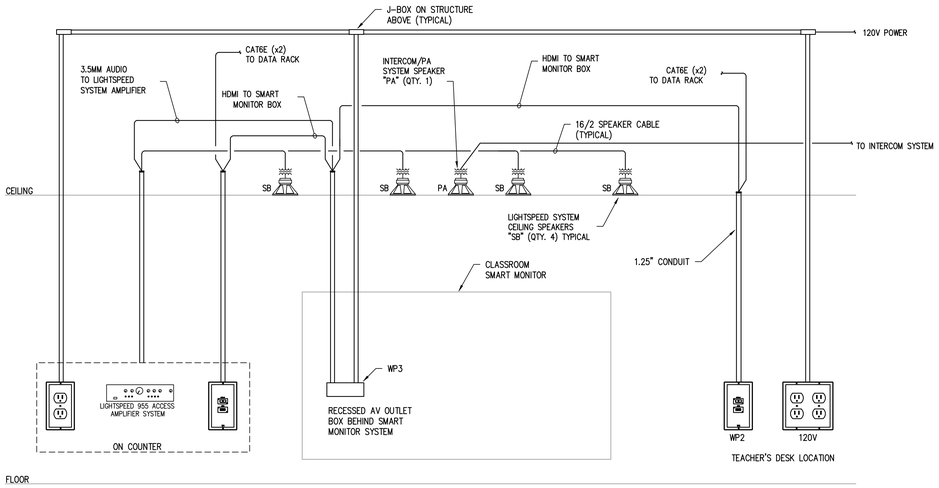
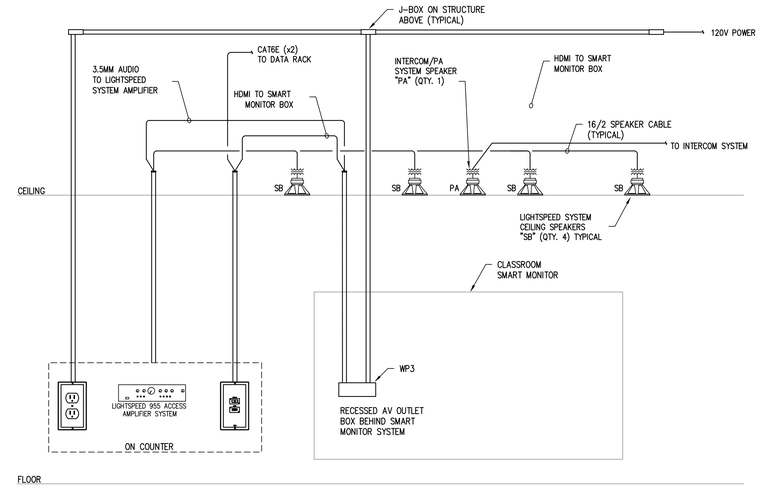


A TYPICAL CLASSROOM A/V CABLING DIAGRAM

NO SCALE

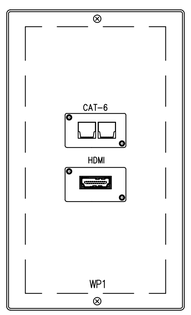
VERIFY QUANTITIES WITH FLOOR PLANS AND SPECIFICATIONS. ALL DEVICES, CABLING, AND TERMINATIONS BY E.C.



B TYPICAL GROUP AREA A/V CABLING DIAGRAM

NO SCALE

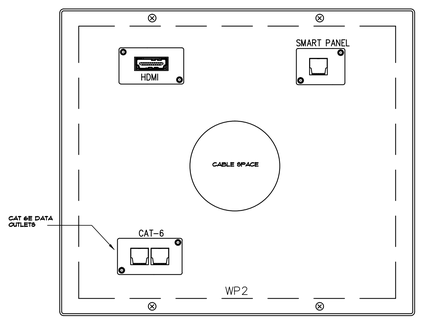
VERIFY QUANTITIES WITH FLOOR PLANS AND SPECIFICATIONS. ALL DEVICES, CABLING, AND TERMINATIONS BY E.C.



C WALL PLATE 'WP1' DETAIL

NO SCALE

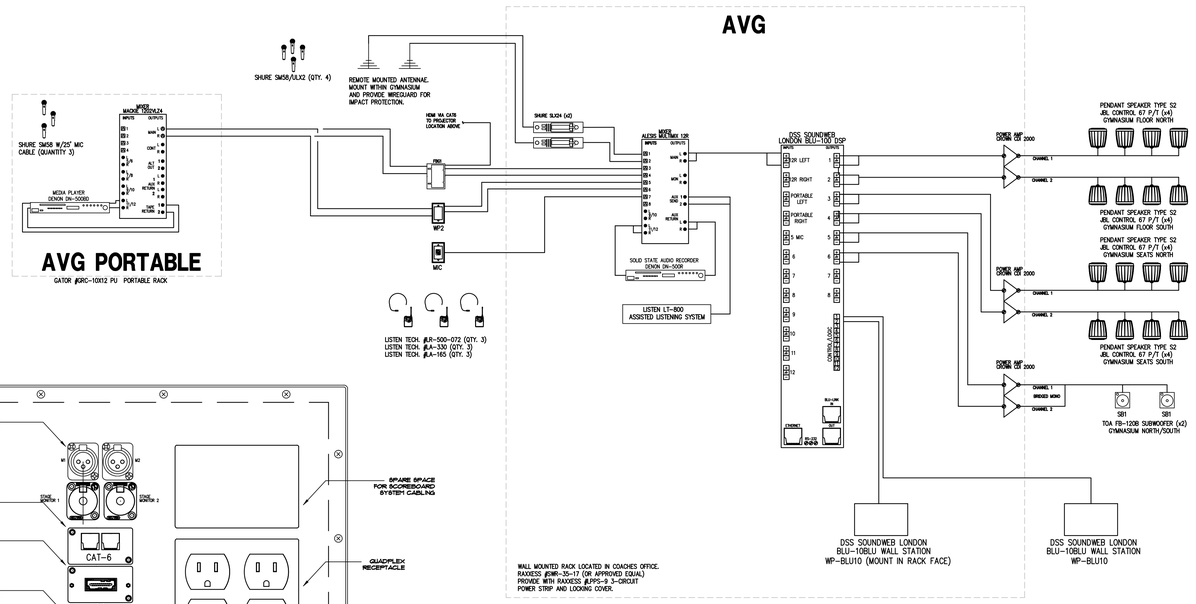
VERIFY QUANTITIES WITH FLOOR PLANS AND SPECIFICATIONS.



NOTES: ALL FACEPLATES SHALL BE STAINLESS STEEL AND UTILIZE MODULAR JACK ASSEMBLIES. ALL CABLING PROVIDED BY E.C. UNLESS OTHERWISE NOTED.

D WALL PLATE "WP2" DETAIL

NO SCALE



F AUDIO SYSTEM LINE DIAGRAM – GYMNASIUM

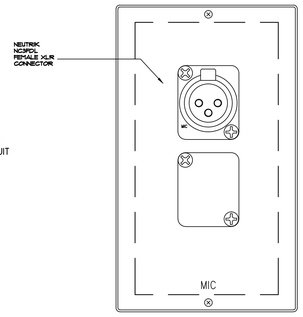
NO SCALE

GENERAL A/V AND LIGHTING SYSTEM NOTES:

A. AUDIO/VIDEO AND THEATRICAL LIGHTING SYSTEM FLOOR PLANS, LINE DIAGRAMS, AND DETAILS ARE PROVIDED TO INDICATE AN APPROXIMATION OF WORK REQUIRED ONLY. ALL DEVICES, RACEWAYS, CABLING, AND ACCESSORIES ARE NOT INDICATED. THE E.C. SHALL ENGAGE A QUALIFIED A/V SYSTEMS DESIGNER TO FACILITATE FINAL SYSTEMS DESIGN AND PREPARATION OF SUBMITTAL/SHOP DRAWINGS. ALL EQUIPMENT SPECIFICATIONS INDICATED ON THESE DRAWINGS ARE REFERENCED AS A "BASIS OF DESIGN" FOR CONSTRUCTION, QUALITY, AND PERFORMANCE CHARACTERISTICS. PROPOSED EQUIPMENT SELECTIONS INCLUDED IN SUBMITTAL/SHOP DRAWINGS SHALL MEET OR EXCEED ALL SPECIFICATIONS OF THE "BASIS OF DESIGN" EQUIPMENT. FINAL SYSTEMS DESIGN SHALL INCLUDE ALL INPUT, OUTPUT, AND CONTROL OPTIONS AND LOCATIONS AS DESCRIBED WITHIN THESE PLAN SHEETS.

B. AUDIO/VIDEO SYSTEMS INSTALLER SHALL COORDINATE EXACT LOCATION AND SIZES OF ALL BOX LOCATIONS WITH THE ELECTRICAL CONTRACTOR PRIOR TO ROUGH-IN. A/V SYSTEMS INSTALLER SHALL PROVIDE ANY CUSTOM OR POURED IN PLACE BACK BOXES OR SLEEVES TO ELECTRICAL CONTRACTOR PRIOR TO ROUGH-IN. ALL A/V SYSTEMS BOXES SHALL BE PROVIDED BY THE A/V CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE EXACT REQUIREMENTS PRIOR TO ROUGH-IN.

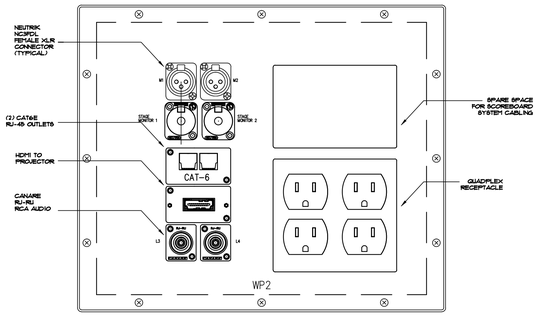
C. CONTRACTOR SHALL PROVIDE AND INSTALL AND MAKE FINAL TERMINATIONS FOR ALL A/V SYSTEM(S) CABLING. REFERENCE A/V SYSTEM DETAILS AND LINE-DIAGRAMS FOR APPROXIMATE CABLING/CONDUIT CABLING REQUIREMENTS.



D WALL PLATE "MIC"

NO SCALE

FIELD VERIFY REQUIRED PLATE SIZE



FSR #FL500P-6 BOX
FSR #FL-GRD-4 POUR PAN
FSR COVER TYPE "B"
(OR APPROVED EQUAL)

E FLOOR BOX "FBG1"

NO SCALE

FIELD VERIFY REQUIRED PLATE SIZE

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COA # 390 - RENEWAL DATE 6/30/2019

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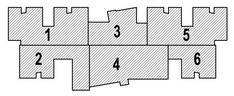
MORROW ELEMENTARY

OWASSO PUBLIC SCHOOLS

OWASSO, OK
2018

PROJECT



KEY PLAN

REVISIONS

03.06.18

ISSUE DATE

1507	PROJECT NO
DWM	DRAWN BY
WAM	CHKD BY

A/□ AND SPECIAL SYSTEMS DETAILS

SHEET TITLE

E601

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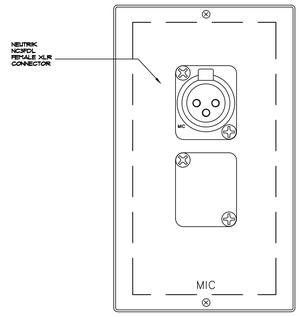
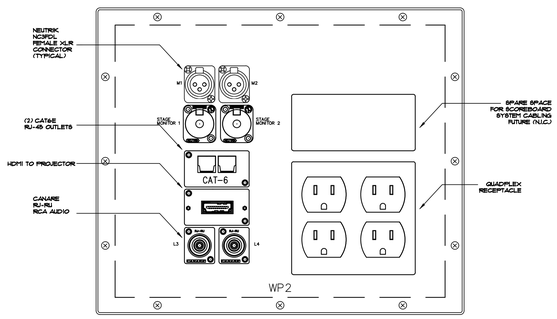


A WALL PLATE "MIC"

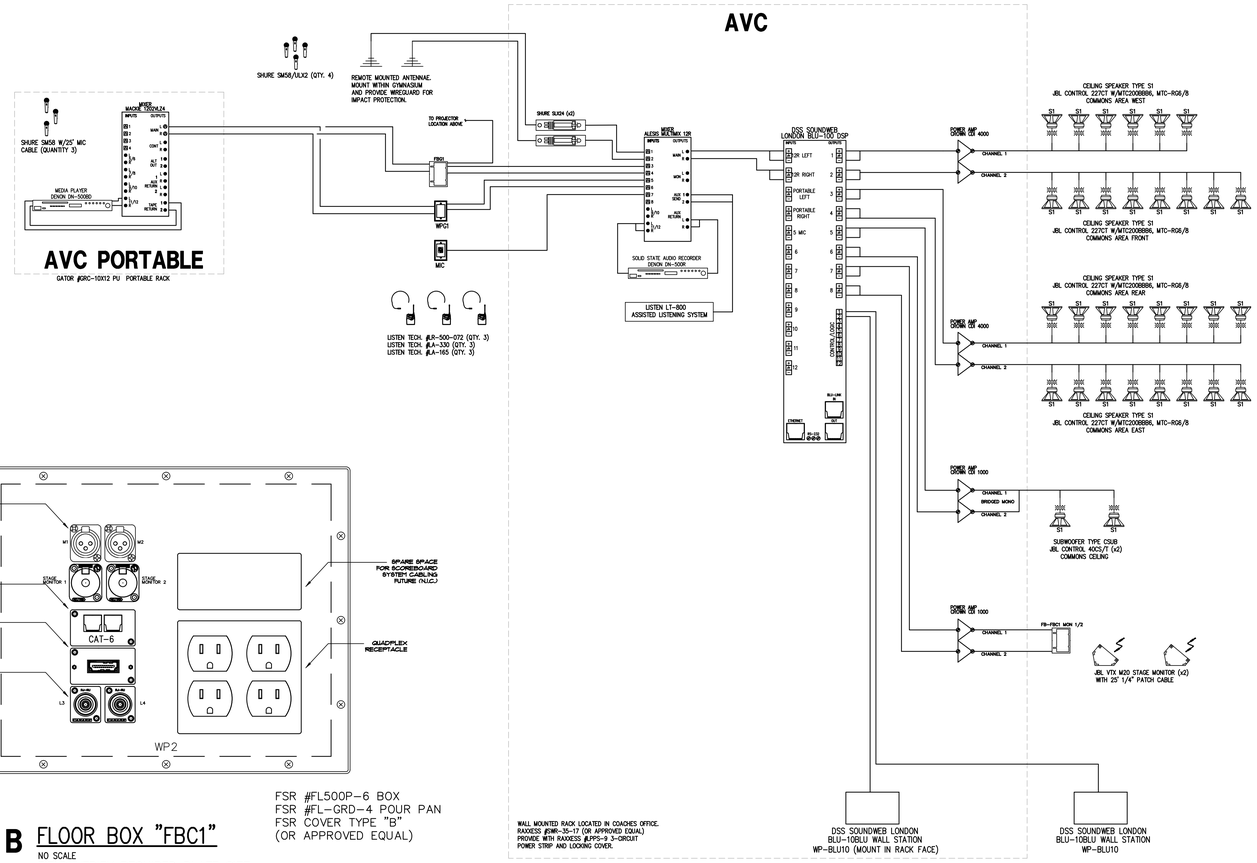
NO SCALE
FIELD VERIFY REQUIRED PLATE SIZE



FSR #FL500P-6 BOX
FSR #FL-GRD-4 POUR PAN
FSR COVER TYPE "B"
(OR APPROVED EQUAL)

B FLOOR BOX "FBC1"

NO SCALE
FIELD VERIFY REQUIRED PLATE SIZE



C AUDIO SYSTEM LINE DIAGRAM-COMMONS AREA

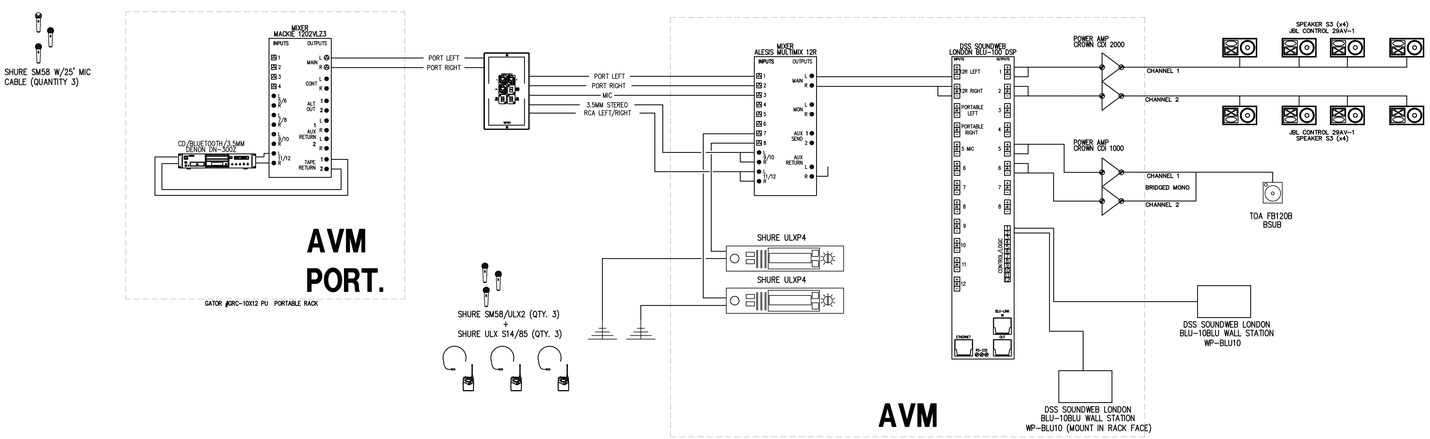
NO SCALE

GENERAL A/V AND LIGHTING SYSTEM NOTES:

A. AUDIO/VIDEO AND THEATRICAL LIGHTING SYSTEM FLOOR PLANS, LINE DIAGRAMS, AND DETAILS ARE PROVIDED TO INDICATE AN APPROXIMATION OF WORK REQUIRED ONLY. ALL DEVICES, RACEWAYS, CABLING, AND ACCESSORIES ARE NOT INDICATED. THE E.C. SHALL ENGAGE A QUALIFIED A/V SYSTEMS DESIGNER TO FACILITATE FINAL SYSTEMS DESIGN AND PREPARATION OF SUBMITTAL/SHOP DRAWINGS. ALL EQUIPMENT SPECIFICATIONS INDICATED ON THESE DRAWINGS ARE REFERENCED AS A "BASIS OF DESIGN" FOR CONSTRUCTION, QUALITY, AND PERFORMANCE CHARACTERISTICS. PROPOSED EQUIPMENT SELECTIONS INCLUDED IN SUBMITTAL/SHOP DRAWINGS SHALL MEET OR EXCEED ALL SPECIFICATIONS OF THE "BASIS OF DESIGN" EQUIPMENT. FINAL SYSTEMS DESIGN SHALL INCLUDE ALL INPUT, OUTPUT, AND CONTROL OPTIONS AND LOCATIONS AS DESCRIBED WITHIN THESE PLAN SHEETS.

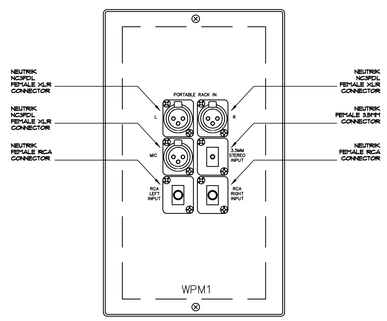
B. AUDIO/VIDEO SYSTEMS INSTALLER SHALL COORDINATE EXACT LOCATION AND SIZES OF ALL BOX LOCATIONS WITH THE ELECTRICAL CONTRACTOR PRIOR TO ROUGH-IN. A/V SYSTEMS INSTALLER SHALL PROVIDE ANY CUSTOM OR POURED IN PLACE BACK BOXES OR SLEEVES TO ELECTRICAL CONTRACTOR PRIOR TO ROUGH-IN. ALL A/V SYSTEMS BOXES SHALL BE PROVIDED BY THE A/V CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE EXACT REQUIREMENTS PRIOR TO ROUGH-IN.

C. CONTRACTOR SHALL PROVIDE AND INSTALL AND MAKE FINAL TERMINATIONS FOR ALL A/V SYSTEM(S) CABLING. REFERENCE A/V SYSTEM DETAILS AND LINE-DIAGRAMS FOR APPROXIMATE CABLING/CONDUIT CABLING REQUIREMENTS.



D AUDIO SYSTEM LINE DIAGRAM-MUSIC ROOM

NO SCALE



E WALL PLATE "WPM1"

NO SCALE
FIELD VERIFY REQUIRED PLATE SIZE

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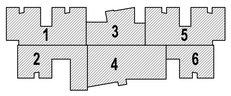
MORROW ELEMENTARY

OWASSO PUBLIC SCHOOLS

OWASSO, OK
2018

PROJECT



KEY PLAN

REVISIONS

03.06.18

ISSUE DATE

1507	PROJECT NO
DWM	DRAWN BY
WAM	CHK'D BY

A/□ AND SPECIAL SYSTEMS DETAILS

E602

SHEET TITLE

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