

# ORANGE COUNTY, FLORIDA

ORANGE COUNTY MAYOR  
TERESA JACOBS

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S. SCOTT BOYD

DISTRICT 2 COMMISSIONER  
FREDERICK C. BRUMMER



DISTRICT 3 COMMISSIONER  
PETE CLARKE

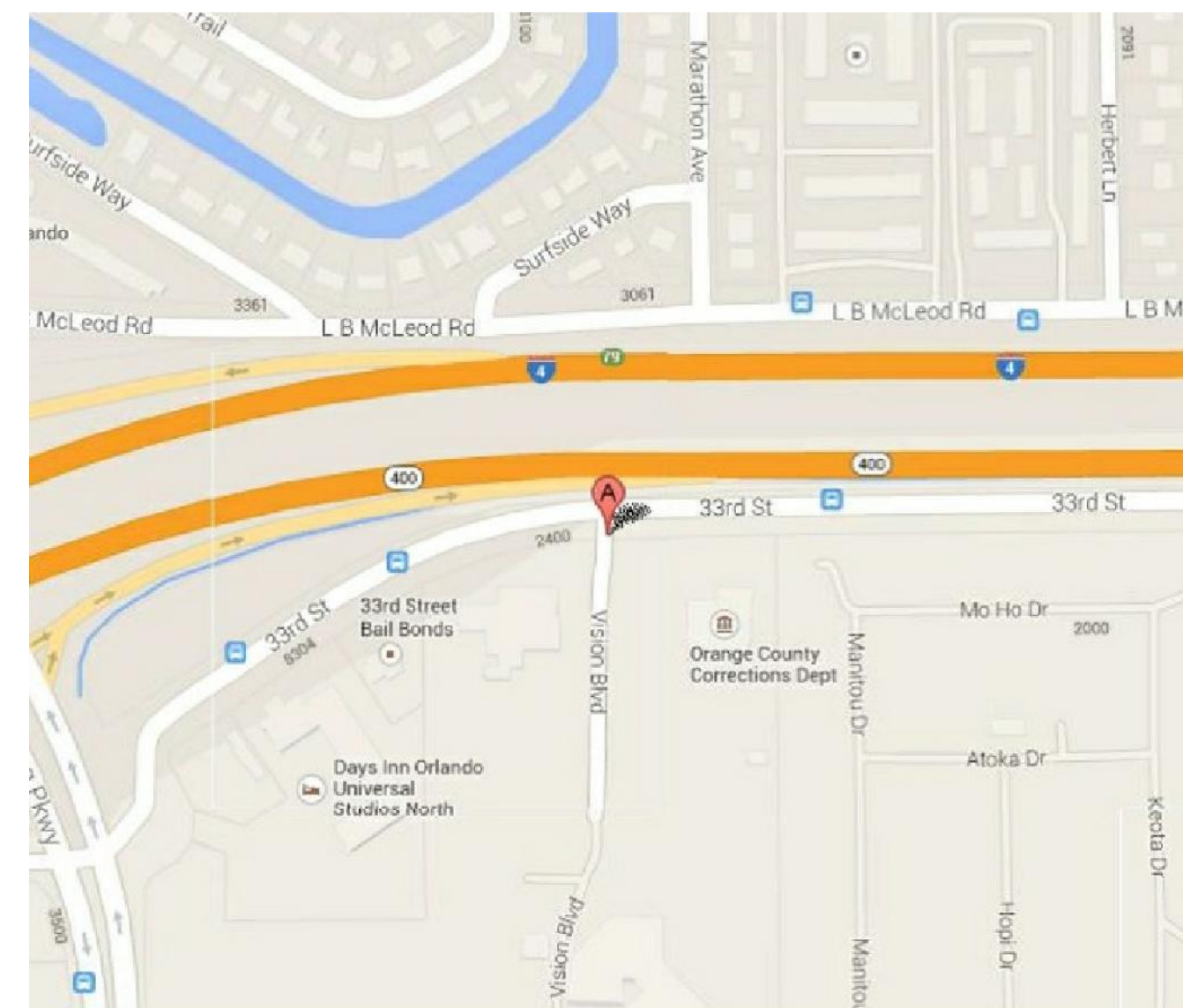
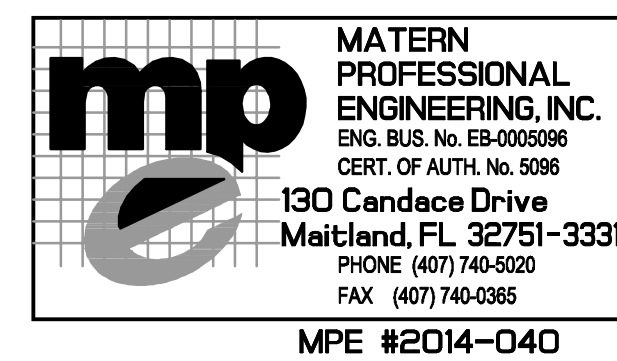
DISTRICT 4 COMMISSIONER  
JENNIFER THOMPSON

DISTRICT 5 COMMISSIONER  
TED B. EDWARDS

DISTRICT 6 COMMISSIONER  
TIFFANY MOORE RUSSELL

## CORRECTIONS COMPOUND COMMUNICATIONS UPGRADE

JUNE 10, 2014  
BID DOCUMENTS



ORANGE COUNTY CORRECTIONS  
3723 VISION BLVD  
ORLANDO, FL 32839

GENERAL NOTES:

- 1) ALL 120V, 20A CIRCUIT HOMERUNS OVER 50 FT. SHALL BE #10 CU. MINIMUM, UNLESS OTHERWISE NOTED.
- 2) ALL 120V, 20A CIRCUITS WITH HOMERUNS OVER 75 FT. SHALL BE #10 CU. THROUGHOUT ENTIRE CIRCUIT MINIMUM, UNLESS OTHERWISE NOTED.
- 3) ALL 277V, 20A CIRCUIT HOMERUNS OVER 100 FT. SHALL BE #10 CU. MINIMUM, UNLESS OTHERWISE NOTED.
- 4) ALL 277V, 20A CIRCUITS WITH HOMERUNS OVER 150 FT. SHALL BE #10 CU. THROUGHOUT ENTIRE CIRCUIT MINIMUM, UNLESS OTHERWISE NOTED.
- 5) REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF FIXTURES.
- 6) COORDINATE EXACT LOCATION OF LIGHTING FIXTURES IN ALL MECH. ROOMS, SPACES, ETC., WITH DUCTWORK INSTALLER PRIOR TO ROUGH-IN. LOCATE BELOW DUCTWORK (8'-0" A.F.F. MINIMUM) CENTERED IN ROOM AS MUCH AS FEASIBLE.
- 7) COORDINATE EXACT INSTALLATION REQUIREMENTS OF OUTLETS IN MILLWORK WITH ARCHITECTURAL DRAWINGS AND APPROVED MILLWORK SHOP DRAWINGS.
- 8) VERIFY EXACT LOCATION OF ALL MECH. EQUIP. INCLUDING WALL SWITCHES, TSTATS, ETC. WITH MECH. CONTRACTOR AND MECH. DRAWINGS.
- 9) REFER TO MECHANICAL EQUIPMENT SCHEDULE, FOR RESPECTIVE CONDUIT/CONDUCTORS, DISCONNECTS, MISC. EQUIPMENT REQUIRED FOR ALL MECHANICAL EQUIPMENT.
- 10) VISIT AND CAREFULLY EXAMINE THOSE PORTIONS OF THE BUILDING AND SITE AFFECTED BY THIS WORK BEFORE SUBMITTING PROPOSALS, SO AS TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT EXECUTION OF THE WORK. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED.
- 11) READ SPECIFICATIONS.
- 12) SEE RISER DIAGRAMS AND BUILDING PLANS.
- 13) ALL EMPTY CONDUITS ARE TO HAVE PULL-STRINGS PROVIDED IN THEM.
- 14) ALL CONDUIT TERMINATIONS AT TERMINAL BOARDS ARE TO HAVE BUSHED CONDUIT ENDS.
- 15) SPLICES IN OUTLET BOXES SHALL BE KEPT TO A MINIMUM, PULL CABLES THROUGH TO EQUIP. CABINETS/TERMINAL CABINETS.
- 16) NO SPLICES SHALL BE MADE IN UNDERGROUND (OR FLUSH) IN-GRADE PULL BOXES UNLESS SPECIFIC APPROVAL HAS BEEN GIVEN BY ENGINEER.
- 17) EXISTING CONDITIONS AND UTILITIES INDICATED ARE TAKEN FROM EXISTING CONSTRUCTION DOCUMENTS, VARIOUS SURVEYS, AND FIELD INVESTIGATIONS. IT IS TO BE UNDERSTOOD THAT UNFORESEEN CONDITIONS PROBABLY EXIST AND NEW WORK MAY NOT BE FIELD LOCATED EXACTLY AS SHOWN ON THE DRAWINGS. COOPERATION WITH OTHER TRADES IN ROUTING AND/OR BURIAL DEPTHS AS DETERMINED DURING CONSTRUCTION AND AS DIRECTED BY THE ARCHITECT/ENGINEER MAY BE NECESSARY AND IT IS INTENDED THAT SUCH DEVIATIONS SHALL BE CONSIDERED A PART OF THIS CONTRACT. IT IS ALSO UNDERSTOOD THAT THE PLANS ARE NOT COMPLETELY TO SCALE. THIS CONTRACTOR IS TO FIELD VERIFY DIMENSIONS OF ALL SITE UTILITIES, ETC., PRIOR TO BID AND INCLUDE ANY DEVIATIONS IN THE CONTRACT.
- 18) IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN ON PLANS OR NOT AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSE FOR REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE COMPLETION OF THIS WORK. THE CONTRACTOR SHALL LOCATE ALL UTILITIES (BOTH KNOWN AND UNKNOWN) IN AREA OF WORK PRIOR TO EXCAVATION WITH THE USE OF ELECTRONIC LOCATOR/TRACER DEVICES AND EQUIPMENT SUITABLE FOR SUCH USE. REFLECT LOCATED UTILITIES ON AS-BUILT DOCUMENTS.
- 19) REMOVE EXISTING POWER, LIGHTING, SYSTEMS, MATERIAL AND EQUIPMENT WHICH ARE MADE OBSOLETE OR WHICH INTERFERE WITH THE CONSTRUCTION OF THE PROJECT.
- 20) REINSTALL ANY SUCH POWER, LIGHTING, SYSTEMS, MATERIALS AND EQUIPMENT WHICH ARE REQUIRED TO REMAIN ACTIVE FOR THE FACILITY TO BE FULLY FUNCTIONAL.
- 21) REMOVE ALL EXISTING ELECTRICAL IN AREAS OF REMODELING UNLESS SPECIFICALLY NOTED OTHERWISE, OR UNLESS REQUIRED FOR CONTINUITY OF CIRCUITS IN AREAS NOT IN REMODEL AREA.
- 22) ALL EXISTING ELECTRICAL IS NOT SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO BECOME FAMILIAR WITH ALL EXISTING CONDITIONS PRIOR TO BID, AND INCLUDE IN HIS BID THE REMOVAL OF ALL ELECTRICAL EQUIPMENT, WIRE, CONDUIT, DEVICES, FIXTURES, ETC. THAT IS NOT BEING REUSED, BACK TO ITS SOURCE.
- 23) ALL RECEPTACLES, DEVICES AND EQUIPMENT NOT SHOWN, AND IN AREAS OUTSIDE OF REMODELING SHALL REMAIN ACTIVE UNLESS OTHERWISE NOTED. FURNISH AND INSTALL ACCESSIBLE JUNCTION BOXES AND REWORK EXISTING CIRCUITS AS REQUIRED TO MAINTAIN CIRCUIT CONTINUITY TO RECEPTACLES, DEVICES AND EQUIPMENT REMAINING.
- 24) ALL CONDUIT TO BE CONCEALED UNLESS IMPOSSIBLE DUE TO EXISTING CONDITIONS (I.E. EXPOSED CEILING, BUILDING EXTERIOR WALL RUNS, IMPOSSIBLE UNDERGROUND RUNS). CONCEAL ALL CONDUITS ABOVE CEILING OR IN WALL/COUNTERS.
- 25) ALL NEW DEVICES TO BE FLUSH MOUNTED UNLESS SPECIFICALLY NOTED OTHERWISE.
- 26) PROVIDE JUNCTION BOX ABOVE ACCESSIBLE CEILING SPACE WITH FLEXIBLE CONDUIT CONCEALED DOWN EXISTING WALL(S) TO NEW DEVICE(S), AND/OR TO REFEED EXISTING DEVICES AS SHOWN ON FLOOR PLAN AND/OR CUT AND PATCH EXISTING WALLS (TO LIKE NEW CONDITION) AS REQUIRED TO ACCOMMODATE CONDUIT SYSTEM, TYPICAL FOR ALL EXISTING WALLS TO REMAIN. FLEXIBLE CONDUIT SHALL BE INSTALLED AS PER SPECIFICATIONS (USE NON-FLEXIBLE CONDUIT IF LENGTH EXCEEDS 6 FT.).
- 27) ALL OUTLET BOXES WHERE FIXTURES OR DEVICES ARE REMOVED SHALL BE REMOVED AND CEILING OR WALL SHALL BE PATCHED TO MATCH EXISTING OR NEW FINISH. IF OUTLET BOX MUST REMAIN TO MAINTAIN CONTINUITY OF CIRCUITRY, AN APPROPRIATE ACCESSIBLE BLANK PLATE SHALL BE INSTALLED WITH FINISH TO MATCH EXISTING OR NEW, WHERE APPLICABLE. ALL OUTLET BOXES WHICH MUST BE REMOVED DUE TO REMOVAL OF WALL, AND WHICH MUST REMAIN ACTIVE IN ORDER TO MAINTAIN CIRCUIT CONTINUITY SHALL BE RELOCATED IN CEILING OR FLOOR, SHALL BE ACCESSIBLE, AND SHALL HAVE BLANK COVERPLATE AS DESCRIBED ABOVE.
- 28) ELECTRICAL CONTRACTOR SHALL INCLUDE ALL EXISTING PANELBOARD SCHEDULES FOR PANELBOARDS RELATED/ASSOCIATED WITH OR WITHIN CONTRACT LIMITS WHETHER SHOWN ON PLANS OR NOT AS PART OF A COMPLETE AS-BUILT SET OF DRAWINGS. SCHEDULES SHALL SHOW FINAL CONFIGURATION, ETC. OF CIRCUITS, CIRCUIT BREAKERS, DIRECTORY, ETC.
- 29) PROVIDE NEW TYPED PANEL DIRECTORIES FOR ALL EXISTING AND NEW PANELBOARDS FOR PANELBOARDS RELATED/ASSOCIATED WITH OR WITHIN CONTRACT LIMITS WHETHER SHOWN ON PLANS OR NOT REGARDLESS IF SCHEDULES/CIRCUITRY HAS BEEN CHANGED.
- 30) PROVIDE NEW PHENOLIC LABELS (PER SPEC'S) ON ALL (2) TWO POLE AND (3) THREE POLE CIRCUIT BREAKERS WITHIN AN EXISTING AND NEW PANELBOARDS RELATED/ASSOCIATED WITH OR WITHIN CONTRACT LIMITS WHETHER SHOWN ON PLANS OR NOT REGARDLESS IF SCHEDULES/CIRCUITRY HAS BEEN CHANGED.
- 31) ALL EXISTING AND/OR NEW CIRCUIT BREAKERS WITHIN EACH EXISTING PANELBOARD SHALL BE THE SAME MFG. TYPE, STYLE AND A.I.C. RATING OF EXISTING PANELBOARD REGARDLESS OF WHAT'S SHOWN ON PANEL SCHEDULE. FIELD VERIFY ALL EXISTING PANELBOARD(S) RELATED/ASSOCIATED WITH OR WITHIN CONTRACT LIMITS AND REPLACE CIRCUIT BREAKERS AS NECESSARY.
- 32) ALL EXISTING BRANCH CIRCUITS AND FEEDERS (REMAINING ACTIVE) WHICH ARE CONNECTED TO EXISTING PANELBOARDS RELATED/ASSOCIATED WITH OR WITHIN CONTRACT LIMITS SHALL BE TRACED-OUT AND PROPERLY NOTED AND IDENTIFIED ON NEW PANEL DIRECTORIES.
- 33) ALL PANELS, CIRCUIT BREAKERS, JUNCTION BOXES, ETC. ASSOCIATED THAT ARE WITHIN AREA OF REMODEL SHALL BE PROPERLY IDENTIFIED AS PER SPECIFICATIONS.
- 34) ALL CONCRETE, WALL PATCHING, CEILING REPAIR, AND OTHER GENERAL WORK REQUIRED FOR INSTALLING ELECTRICAL SYSTEMS AND TO REPAIR TO "LIKE NEW CONDITION" TO BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. (COORDINATE WITH GENERAL CONTRACTOR.)
- 35) ALL PATCHES OR CEILING PLATES SHALL BE PATCHED OR PAINTED AS DIRECTED BY ARCHITECT.
- 36) PAINT ALL EXPOSED CONDUIT, BOXES, ETC. TO MATCH WALL SURFACE.
- 37) ALL OPENINGS IN FIRE RATED WALLS AND FLOORS, ETC. MADE BY RENOVATION SHALL BE SEALED AND FIREPROOFED.
- 38) DASHED ITEMS INDICATE EXISTING TO REMAIN.
- 39) "R" ADJACENT TO DEVICE INDICATES EXISTING TO BE REMOVED COMPLETE.
- 40) NEW UNDERGROUND RACEWAYS ARE TO BE HAND DUG. ROUTE UNDER EXISTING WALKWAYS AS REQUIRED BY OWNER.
- 41) ALL ITEMS REMOVED AND NOT RE-USED SHALL BE IMMEDIATELY TURNED OVER TO OWNER AS THEY ARE MADE AVAILABLE BY RENOVATION. REMOVE ITEMS FROM JOB SITE AND DELIVER TO OWNERS STORAGE LOCATION(S) AS DIRECTED BY PROJECT MANAGER. DISCARD COMPLETE ITEMS WHICH OWNER ELECTS TO REFUSE.
- 42) WORK TO BE PERFORMED IN STRICT COMPLIANCE WITH ESTABLISHED WORK SCHEDULE BEING SET FORTH BY OWNER. COORDINATE ALL WORK WITH GENERAL CONTRACTOR. THIS CONTRACTOR SHALL FURNISH ADEQUATE FORCES, CONSTRUCTION PLANT, AND EQUIPMENT, AND SHALL WORK SUCH HOURS, INCLUDING NIGHT SHIFTS, OVERTIME OPERATIONS, SUNDAY, AND HOLIDAYS IN ACCORDANCE WITH THE OWNERS OPERATIONAL SCHEDULE. IF THE CONTRACTOR FALLS BEHIND PROGRESS REQUIRED IN THE OPERATIONAL SCHEDULE, THE CONTRACTOR SHALL TAKE SUCH STEPS AS MAY BE NECESSARY TO IMPROVE HIS PROGRESS, AND THE OWNER MAY REQUIRE HIM TO INCREASE THE NUMBER OF SHIFTS AND/OR OVERTIME OPERATIONS, DAY OF WORK AND/OR THE AMOUNT OF CONSTRUCTION PLANT, AT NO ADDITIONAL COST TO THE OWNER UNDER THIS CONTRACT.
- 43) ALL EXISTING CONDUIT, WIRE, FITTINGS, BOXES, ETC. REMAINING AND/OR UTILIZED WITHIN CONTRACT LIMITS MUST COMPLY WITH SPECIFICATIONS. ELECTRICAL COMPONENTS WHICH DO NOT COMPLY WITH SPECIFICATIONS, AND IS NOT IN COMPLIANCE WITH NATIONAL ELECTRICAL CODE AND LOCAL CODES SHALL BE REPLACED AND/OR REWORKED AT NO ADDITIONAL COST TO OWNER UNDER THIS CONTRACT (I.E. CONDUIT SIZING, ROUTING, SUPPORTS, ETC.).
- 44) CONTRACTOR MAY REUSE EXISTING CONDUIT (MIN. OF 10' LENGTHS) AND ASSOCIATED FITTINGS, DEVICES, BOXES, ETC. WHICH IS IN "LIKE NEW CONDITION" AND WHICH COMPLES TO THE SPECIFICATIONS. REMOVE EXISTING WIRING, PULL IN NEW WIRING AND CONNECT DEVICES TO SYSTEM.
- 45) CONTRACTOR SHALL INCLUDE IN HIS BID THE TRANSPORT AND DISPOSAL OR RECYCLING OF ALL WASTE MATERIALS GENERATED BY THIS PROJECT IN ACCORDANCE WITH ALL RULES, REGULATIONS, AND GUIDELINES APPLICABLE. CONTRACTOR SHALL COMPLY FULLY WITH FLORIDA STATUTE 403.7166 REGARDING MERCURY CONTAINING DEVICES AND LAMPS. LAMPS, BALLASTS AND OTHER MATERIALS SHALL BE TRANSPORTED AND DISPOSED OF IN ACCORDANCE WITH ALL DEP AND EPA GUIDELINES APPLICABLE AT TIME OF DISPOSAL. CONTRACTOR SHALL PROVIDE OWNER WITH WRITTEN CERTIFICATION OF APPROVED DISPOSAL.
- 46) WHEN LOAD IS SHOWN/REQUIRED TO BE CONNECTED FROM LOAD LOCATED IN ONE PHASE OF PROJECT TO PANEL IN ANOTHER PHASE OF THE PROJECT, PROVIDE AND INSTALL REQUIRED RACEWAYS IN THE PROJECT PHASE THAT OCCURS FIRST TO A POINT IN SUBSEQUENT PHASE THAT WILL ALLOW THE LEAST DISRUPTION IN AREA OF EARLIER PHASE WORK.
- 47) CLEAN THE INTERIORS OF ALL PANEL, SWITCHBOARD AND SYSTEMS CABINETS/ ENCLOSURES. REMOVE ALL DEBRIS, DUST, ETC.
- 48) PROVIDE NEW LABELS ON ALL SYSTEMS AND LV CONTROL CABINETS/ENCLOSURES.
- 49) RELABEL ALL CONDUCTORS IN ALL SYSTEMS AND LV CONTROL CABINETS/ENCLOSURES.
- 50) NOT USED.
- 51) ALL PANELBOARD, SWITCHBOARDS AND MOTOR CONTROL CENTERS ARE TO BE REFURBISHED. SEE SPECIFICATIONS.
- 52) CONTRACTOR IS TO CLEAN, PRIME AND PAINT RUSTED SECTIONS OF EXISTING EXPOSED CONDUIT. CONTRACTOR IS TO ASSUME OF ALL EXPOSED CONDUIT 15% OF ALL PENETRATIONS THROUGH FLOOR SLABS WILL REQUIRE REPLACEMENT.
- 53) CONTRACTOR IS TO PROVIDE FIRESAFING FOR ALL EXISTING OPEN ELECTRICAL PENETRATIONS.

SHEET NO.	ELECTRICAL SHEET INDEX FOR	SCALE
E001	GENERAL NOTES AND SHEET INDEX	N.T.S
E002	ELECTRICAL SYSTEMS SYMBOL LEGENDS	N.T.S
E010	OVERALL PLAN ELECTRICAL	1/8"=1'-0"
E-A-401	ENLARGED PLAN - BUILDING A - LEVEL 1 - SYSTEMS	1/8"=1'-0"
E-D-101	FLOOR PLAN - BUILDING D - LEVEL 1 - POWER	1/8"=1'-0"
E-D-102	FLOOR PLAN - BUILDING D - LEVEL 2 - POWER	1/8"=1'-0"
E-D-103	FLOOR PLAN - BUILDING D - LEVEL 3 - POWER	1/8"=1'-0"
E-D-104	FLOOR PLAN - BUILDING D - LEVEL 4 - POWER	1/8"=1'-0"
E-D-301	FLOOR PLAN - BUILDING D - LEVEL 1 - SYSTEMS	1/8"=1'-0"
E-D-302	FLOOR PLAN - BUILDING D - LEVEL 2 - SYSTEMS	1/8"=1'-0"
E-D-303	FLOOR PLAN - BUILDING D - LEVEL 3 - SYSTEMS	1/8"=1'-0"
E-D-304	FLOOR PLAN - BUILDING D - LEVEL 4 - SYSTEMS	1/8"=1'-0"
E-D-401	ENLARGED PLAN - BUILDING D - LEVEL 2 & 4 - SYSTEMS	1/4"=1'-0"
E-D-402	ENLARGED PLAN - BUILDING D - LEVEL 2 & 4 - SYSTEMS	1/4"=1'-0"
E-E-101	FLOOR PLAN - BUILDING E - LEVEL 1 - POWER	1/8"=1'-0"
E-E-102	FLOOR PLAN - BUILDING E - LEVEL 2 - POWER	1/8"=1'-0"
E-E-103	FLOOR PLAN - BUILDING E - LEVEL 3 - POWER	1/8"=1'-0"
E-E-104	FLOOR PLAN - BUILDING E - LEVEL 4 - POWER	1/8"=1'-0"
E-E-105	FLOOR PLAN - BUILDING E - LEVEL 5 - POWER	1/8"=1'-0"
E-E-106	FLOOR PLAN - BUILDING E - LEVEL 6 - POWER	1/8"=1'-0"
E-E-301	FLOOR PLAN - BUILDING E - LEVEL 1 - SYSTEMS	1/8"=1'-0"
E-E-302	FLOOR PLAN - BUILDING E - LEVEL 2 - SYSTEMS	1/8"=1'-0"
E-E-303	FLOOR PLAN - BUILDING E - LEVEL 3 - SYSTEMS	1/8"=1'-0"
E-E-304	FLOOR PLAN - BUILDING E - LEVEL 4 - SYSTEMS	1/8"=1'-0"
E-E-305	FLOOR PLAN - BUILDING E - LEVEL 5 - SYSTEMS	1/8"=1'-0"
E-E-306	FLOOR PLAN - BUILDING E - LEVEL 6 - SYSTEMS	1/8"=1'-0"
E-E-401	ENLARGED PLAN - BUILDING E - LEVEL 1 & 3 - SYSTEMS	1/4"=1'-0"
E-E-402	ENLARGED PLAN - BUILDING E - LEVEL 1 & 3 - SYSTEMS	1/4"=1'-0"
E-E-403	ENLARGED PLAN - BUILDING E - LEVEL 1 & 3 - SYSTEMS	1/4"=1'-0"
E-F-101	FLOOR PLAN - BUILDING E - LEVEL 1 - POWER	1/8"=1'-0"
E-F-102	FLOOR PLAN - BUILDING E - LEVEL 2 - POWER	1/8"=1'-0"
E-F-103	FLOOR PLAN - BUILDING E - LEVEL 3 - POWER	1/8"=1'-0"
E-F-104	FLOOR PLAN - BUILDING E - LEVEL 4 - POWER	1/8"=1'-0"
E-F-301	FLOOR PLAN - BUILDING E - LEVEL 1 - SYSTEMS	1/8"=1'-0"
E-F-302	FLOOR PLAN - BUILDING E - LEVEL 2 - SYSTEMS	1/8"=1'-0"
E-F-303	FLOOR PLAN - BUILDING E - LEVEL 3 - SYSTEMS	1/8"=1'-0"
E-F-304	FLOOR PLAN - BUILDING E - LEVEL 4 - SYSTEMS	1/8"=1'-0"
E-F-401	ENLARGED PLAN - BUILDING D - LEVEL 1 & 3 - SYSTEMS	1/4"=1'-0"
E601	ELECTRICAL SCHEDULES	N.T.S
E602	ELECTRICAL SCHEDULES	N.T.S
E801	SYSTEMS RISER	N.T.S
E802	EXISTING RACKS	N.T.S
E803	NEW RACKS	N.T.S
E901	ELECTRICAL DETAILS	N.T.S
E902	ELECTRICAL DETAILS	N.T.S
E903	ELECTRICAL DETAILS	N.T.S
E904	ELECTRICAL DETAILS	N.T.S

THE ESTIMATED ADDITIONAL HEAT GAIN PER COMMAND ROOM FROM THE NEW SERVER RACK EQUIPMENT IS 2,500 BTU/H. BASED ON A REVIEW OF THE AS-BUILT DOCUMENTS, IT IS ASSUMED THE EXISTING SUPPLY AIRFLOW WITHIN THE ROOM AS ENOUGH CAPACITY TO ACCOMMODATE THIS EXTRA HEAT GAIN. CONTRACTOR TO ADD A PERFORATED EGG CRATE GRILLE IN THE CEILING ABOVE EACH RACK EQUAL TO A TITUS #50F.

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**ORANGE COUNTY CORRECTIONS COMPOUND COMMUNICATIONS UPGRADE**

Revisions

No.	Date	Description

MPE PROJ#: 2014-040

Designed By: JEL/DAM

Drawn By: AG/JEL/DAM

Checked By: DAM/CT

Issue Date: 6/10/2014

Drawing Scale: NONE

Drawing Title:

GENERAL NOTES ELECTRICAL

BID DOCUMENTS

Drawing No.

E001



# ELECTRICAL SYMBOL LEGEND

SYMBOL LEGEND (CONTINUED)						SYMBOL LEGEND (CONTINUED)					
SYMBOL	DESCRIPTION	DESIGN SELECTION	APPROVED SUBSTITUTION	APPROVED SUBSTITUTION	REMARKS	SYMBOL	DESCRIPTION	DESIGN SELECTION	APPROVED SUBSTITUTION	APPROVED SUBSTITUTION	REMARKS
⊖	WALL OUTLET BOX AND 20 AMP SINGLE RECEPTACLE	P&S #5361	HUBBELL #HBL5361	LEVITON #5351	d	— —	GROUND OR GROUND ROD AS NOTED				
⊖	WALL OUTLET BOX AND 20 AMP DUPLEX RECEPTACLE	P&S #PSS362	HUBBELL #HBL5352	LEVITON #5362	d	⊖	WALL OUTLET BOX AND 20 AMP SINGLE POLE SWITCH ("G" INDICATES SWITCH-LEG)	P&S #PS20AC1	HUBBELL #HBL1221	LEVITON #1221-2	d
⊖	WALL OUTLET BOX AND 20 AMP BLACK DUPLEX RECEPTACLE FOR COMPUTER WORKSTATION	P&S #PSS362-BLACK	HUBBELL #HBL5352-BLACK	LEVITON #5362-BLACK	d	⊖	WALL OUTLET BOX AND 20 AMP DOUBLE POLE SWITCH	P&S #PS20AC2	HUBBELL #HBL1222	LEVITON #1222-2	d
⊖	TWO GANG WALL OUTLET BOX AND TWO 20 AMP DUPLEX RECEPTACLES	(2)-P&S #PSS362	(2)-HUBBELL #HBL-5352	(2)-LEVITON #5362	d	⊖	WALL OUTLET BOX AND 20 AMP THREE-WAY SWITCH	P&S #PS20AC3	HUBBELL #HBL1223	LEVITON #1223-2	d
⊖	TWO GANG WALL OUTLET BOX AND TWO 20 AMP BLACK DUPLEX RECEPTACLES FOR COMPUTER WORKSTATION	(2)-P&S #PSS362-BLACK	(2)-HUBBELL #HBL-5352-BLACK	(2)-LEVITON #5362-BLACK	d	⊖	WALL OUTLET BOX AND 20 AMP FOUR-WAY SWITCH	P&S #PS20AC4	HUBBELL #HBL1224	LEVITON #1224-2	d
⊖	WALL OUTLET BOX AND 20 AMP DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER. COORDINATE WITH ARCHITECTURAL PLANS	P&S #PSS362	HUBBELL #HBL5352	LEVITON #5362	d	⊖	WALL OUTLET BOX AND 20 AMP SINGLE POLE SWITCH WITH RED PILOT LIGHT	P&S #PS20-AC1-RPL	HUBBELL #HBL1221PL HUBBELL #HBL1221PL7		d
⊖	WALL OUTLET BOX AND 20 AMP DUPLEX RECEPTACLE TOP HALF SWITCHED	P&S #PSS362	HUBBELL #HBL5352	LEVITON #5362	d	⊖	WALL OUTLET BOX AND FAN CONTROL SWITCH, 3 SPEED SOLID STATE, FLUSH	OF THE SAME MANUFACTURER AS PADDLE FANS			d
⊖	WALL OUTLET BOX AND 20 AMP DUPLEX RECEPTACLE EACH HALF ON SEPARATE CIRCUIT	P&S #PSS362	HUBBELL #HBL5352	LEVITON #5362	d	⊖	WALL OUTLET BOX AND 20 AMP SINGLE POLE KEY SWITCH	P&S #PS20AC1-L	HUBBELL #HBL1221L	LEVITON #1221-2L	d
⊖	WALL OUTLET BOX AND SPECIAL PURPOSE RECEPTACLE, NEMA TYPE L14-30	P&S	HUBBELL	LEVITON	d	⊖	WALL OUTLET BOX AND 20 AMP DOUBLE POLE KEY SWITCH	P&S #PS20AC2-L	HUBBELL #HBL1222L	LEVITON #1222-2L	d
⊖	WALL OUTLET BOX AND 20 AMP RED SINGLE RECEPTACLE CONNECTED TO EMERGENCY SYSTEM BRANCH CIRCUIT	P&S #5361-RED	HUBBELL #HBL5361-RED	LEVITON #5361-RED		⊖	WALL OUTLET BOX AND 20 AMP THREE-WAY KEY SWITCH	P&S #PS20AC3-L	HUBBELL #HBL1223L	LEVITON #1223-2L	d
⊖	WALL OUTLET BOX AND 20 AMP RED DUPLEX RECEPTACLE CONNECTED TO EMERGENCY SYSTEM BRANCH CIRCUIT	P&S #5362-RED	HUBBELL #HBL5352-RED	LEVITON #5362-RED	d	⊖	WALL OUTLET BOX AND 20 AMP FOUR-WAY KEY SWITCH	P&S #PS20AC4-L	HUBBELL #HBL1224L	LEVITON #1224-2L	d
⊖	TWO GANG WALL OUTLET BOX AND TWO 20 AMP RED DUPLEX RECEPTACLE CONNECTED TO EMERGENCY SYSTEM BRANCH CIRCUIT	(2)-P&S #5362-RED	(2)-HUBBELL #HBL5352-RED	(2)-LEVITON #5362-RED	d	⊖	WALL OUTLET BOX AND SECURITY LOCKING KEY SWITCH, 20 AMP, SINGLE POLE, WITH S.S. PLATE, PROVIDE TWO KEYS	P&S #PS20AC1-KL-55-717	DEVICE: HUBBELL #HBL1221RKL PLATE: S12RKL		d
⊖	CEILING OUTLET BOX AND 20 AMP SINGLE RECEPTACLE	P&S #5361	HUBBELL #HBL5361	LEVITON #5351	b, d	⊖	FLUSH WALL OUTLET BOX AND 20 AMP SINGLE POLE SWITCH, WITH DIE CAST WEATHERPROOF COVER	DEVICE: P&S #PS20AC1 PLATE: P&S #CA1-G	DEVICE: HUBBELL #HBL1221 PLATE: P&S #CA1-G	DEVICE: LEVITON #1221-2	a, d
⊖	CEILING OUTLET BOX AND 20 AMP DUPLEX RECEPTACLE	P&S #5362	HUBBELL #HBL5352	LEVITON #5362	b, d	⊖	FLUSH WALL OUTLET BOX AND 20 AMP SINGLE POLE SWITCH, WITH LOCKING STAINLESS STEEL WEATHERPROOF COVER. MOUNT OUTLET BOX HORIZONTALLY.	DEVICE: P&S #20AC1 PLATE: P&S #WPH-1L	DEVICE: HUBBELL #HBL1221 PLATE: P&S #WPH-1L	DEVICE: LEVITON #1221-2	a, d
⊖	TWO GANG CEILING OUTLET BOX AND TWO 20 AMP DUPLEX RECEPTACLES	(2)-P&S #5362	(2)-HUBBELL #HBL5352	(2)-LEVITON #5362	b, d	⊖	CAST IRON ZINC PLATED SURFACE MTD. OUTLET BOX AND 20 AMP SINGLE POLE SWITCH, WITH COPPER FREE CAST ALUMINUM WEATHERPROOF COVER	DEVICE: P&S #PS20AC1 APPLETON #FS/FD/FSK-WT2	DEVICE: HUBBELL #HBL1221 BOX AND PLATE: APPLETON #FS/FD/FSK-WT2	DEVICE: LEVITON #1221-2	a, d, e, f, g
⊖	WALL OUTLET BOX AND 20 AMP GFI DUPLEX RECEPTACLE FOR ELECTRIC WATER COOLER, COORDINATE WITH EWC INSTALLER FOR MOUNTING REQUIREMENTS.	P&S #2095	HUBBELL #GFRS362S	LEVITON #7899	d	⊖	OUTLET BOX AND 20 AMP, 1P MANUAL MOTOR CONTROLLER WITHOUT OVERLOADS. RATED 1 HP @ 120V, 2 HP @ 277V.	P&S #PS20AC1	HUBBELL #HBL1221		d
⊖	WALL OUTLET BOX AND 20 AMP GFI DUPLEX RECEPTACLE	P&S #2095	HUBBELL #GFRS362S	LEVITON #7899	d	⊖	OUTLET BOX AND 20 AMP, 2P MANUAL MOTOR CONTROLLER WITHOUT OVERLOADS. RATED 2 HP @ 240V.	P&S #PS20AC2	HUBBELL #HBL1222		d
⊖	WALL OUTLET BOX AND 20 AMP ISOLATED GROUND DUPLEX RECEPTACLE (ORANGE DEVICE)	P&S #IG5362	HUBBELL #IG5362	LEVITON #5362-IG	d	⊖	OUTLET BOX AND 30 AMP, 3P MANUAL MOTOR CONTROLLER WITHOUT OVERLOADS. RATED 7.5 HP @ 240V, 10 HP @ 480V.	P&S #7803/7801	HUBBELL #HBL7810D/LOCK BRACKET	LEVITON #7810/LOCK BRACKET	d
⊖	WALL OUTLET BOX AND 15 AMP DUPLEX SAFETY RECEPTACLE	P&S #TR62	HUBBELL #HBL8200SG	LEVITON #8200-SG	d	⊖	FRACTIONAL HORSEPOWER MANUAL MOTOR STARTER WITH OVERLOADS AND NEMA 1 ENCLOSURE. 1 POLE, RATED 1 HP @ 120 TO 240V.	SO, D #FG1		G.E. #CR101Y1	
⊖	WALL OUTLET BOX AND 20 AMP SINGLE TWIST LOCK RECEPTACLE	P&S #L520R	HUBBELL #HBL2310		d	⊖	FRACTIONAL HORSEPOWER MANUAL MOTOR STARTER WITH OVERLOADS AND NEMA 1 ENCLOSURE. 2 POLE, RATED 1 HP @ 120 TO 240V.	SO, D #FG2		G.E. #CR101Y11	
⊖	WALL OUTLET BOX AND TWO 20 AMP DUPLEX TWIST LOCK RECEPTACLE	(2)-P&S #L520R	(2)-HUBBELL #HBL2310		d	⊖	FRACTIONAL HORSEPOWER MANUAL MOTOR STARTER WITH OVERLOADS, RED PILOT LIGHT AND NEMA 1 ENCLOSURE. 1 POLE, RATED 1 HP @ 120 TO 240V.	SO, D #FG1P		G.E. #CR101H1	
⊖	WALL OUTLET BOX AND 20 AMP DUPLEX RECEPTACLE FOR TELEVISION, MOUNT ADJACENT TO TELEVISION OUTLET AT 84" AFF UNLESS OTHERWISE NOTED.	P&S #PSS362	HUBBELL #HBL5352	LEVITON #5362	d	⊖	FRACTIONAL HORSEPOWER MANUAL MOTOR STARTER WITH OVERLOADS, 2 POLE, RATED 1 HP @ 120 TO 240V.	SO, D #FG2P		G.E. #CR101H11	
■	120/208V BRANCH CIRCUIT PANELBOARD SURFACE MOUNTED	SQUARE "D"	G.E.	SIEMENS	i	⊖	WALL OUTLET BOX AND REMOTE CONTROL SWITCH AS CALLED FOR ON DRAWINGS OR IN SPECIFICATIONS			LUTRON	d
■	120/208V BRANCH CIRCUIT PANELBOARD FLUSH MOUNTED	SQUARE "D"	G.E.	SIEMENS	i	⊖	WALL OUTLET BOX AND DIMMER SWITCH, AS NOTED ON PLANS			LUTRON	d
■	277/480V BRANCH CIRCUIT PANELBOARD SURFACE MOUNTED	SQUARE "D"	G.E.	SIEMENS	i	⊖	WALL OUTLET BOX AND THREE-WAY DIMMER SWITCH AS NOTED ON PLANS			LUTRON	d
■	277/480V BRANCH CIRCUIT PANELBOARD FLUSH MOUNTED	SQUARE "D"	G.E.	SIEMENS	i	⊖	WALL OUTLET BOX AND DIGITAL TIME SWITCH RATED FOR 800 WATTS @ 120V.		WATT STOPPER CAT# TS-400	SENSOR SWITCH, INC.	
■	INTEGRATED FACILITIES SWITCHBOARD (IFS) - 2 SECTION	SQUARE "D"	G.E.	SIEMENS		⊖	BUSBAR				
■	INTEGRATED FACILITIES SWITCHBOARD (IFS) - 3 SECTION	SQUARE "D"	G.E.	SIEMENS							
■	TRANSFORMER	SQUARE "D"	G.E.	SIEMENS	i						
■	AUTOMATIC TRANSFER SWITCH	RUSSELECTRIC	ASCO		i						
■	SYSTEMS PANEL - SURFACE MOUNTED	SEE SYSTEMS LEGEND/SPECS			i, j						
■	SYSTEMS PANEL - FLUSH MOUNTED	SEE SYSTEMS LEGEND/SPECS			i, j						
■	LIGHTING CONTROL OR DIMMER PANEL - SURFACE MOUNTED										
■	LIGHTING CONTROL OR DIMMER PANEL - FLUSH MOUNTED										
■	SYSTEMS TERMINAL BOARD AS NOTED	SEE SYSTEMS LEGEND/SPECS									
⊖	BRANCH CIRCUIT CONDUIT CONCEALED ABOVE CEILING OR IN WALL. SLASH MARKS INDICATE NUMBER OF CONDUCTORS (GROUND WIRE NOT SHOWN). TWO CONDUCTORS PLUS GROUND REQUIRED (UNLESS OTHERWISE NOTED OR MARKED)										
⊖	BRANCH CIRCUIT CONDUIT CONCEALED BELOW SLAB OR UNDERGROUND										
⊖	BRANCH CIRCUIT CONDUIT EXPOSED										
⊖	EMERGENCY SYSTEM BRANCH CIRCUIT CONDUIT, CONCEALED (LIFE SAFETY BRANCH)										
⊖	LEGALLY REQUIRED STANDBY SYSTEM BRANCH CIRCUIT CONDUIT, CONCEALED (CRITICAL BRANCH)										
⊖	OPTIONAL STANDBY SYSTEM BRANCH CIRCUIT CONDUIT, CONCEALED (EQUIPMENT BRANCH)										
⊖	DIRECT CURRENT EMERGENCY SYSTEM WIRE AND CONDUIT, CONCEALED										
⊖	COMPUTER EQUIPMENT POWER BRANCH CIRCUITRY, CONCEALED. PROVIDE INDIVIDUAL NEUTRAL FOR EACH CIRCUIT COMPLETE FROM PANEL TO RECEPTACLE. DO NOT COMBINE NEUTRALS OF ONE CIRCUIT WITH NEUTRAL OF OTHER CIRCUIT, #10 AWG MINIMUM										
⊖	ISOLATED POWER SYSTEM CONDUIT, CONCEALED										
⊖	CONTROL WIRING AND CONDUIT, CONCEALED										
⊖	UNINTERRUPTIBLE POWER SYSTEM BRANCH CIRCUIT WITH ISOLATED GROUND ON EMERGENCY SYSTEM (LIFE SAFETY BRANCH)										
⊖	HOME RUN WIRING. ONE CIRCUIT PER ARROW HEAD										
⊖	CONDUIT CAPPED OFF										
⊖	CONDUIT CONTINUED										
⊖	CONDUIT RUN UP										
⊖	CONDUIT RUN DOWN										
⊖	CONDUIT SEAL-OFF FITTING	CROUSE HINDS	APPLETON		e						
⊖	GROUND WIRE, CONCEALED										

[Grid Symbol]	CABLE TRAY SIZE: REFER TO DETAILS AND SPECIFICATIONS
[Curved Grid Symbol]	CABLE TRAY 90-DEGREE SIZE: REFER TO DETAILS AND SPECIFICATIONS
[Tee Symbol]	CABLE TRAY TEE INTERSECTION SIZE: REFER TO DETAILS AND SPECIFICATIONS

#### NOTES:

- 1) ALL DEVICES TO BE GREY WITH SMOOTH METAL #302 S.S. PLATES UNLESS OTHERWISE NOTED.
- 2) DASHED ITEM DENOTES "EXISTING".
- 3) "R" BY DEVICE DENOTES EXISTING TO BE REMOVED COMPLETELY.
- 4) "H" BY DEVICE DENOTES DEVICE TO BE MOUNTED HORIZONTALLY.
- 5) MOUNT SWITCHES AT 48" AFF TO TOP.
- 6) SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- 7) ALL ITEMS NOTED ON THE LEGENDS DO NOT NECESSARILY APPEAR ON PLANS.

#### REMARKS:

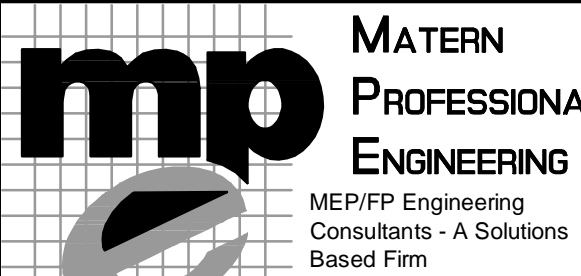
- a) U.L. LISTED FOR WET LOCATION IN CLOSED POSITION.
- b) SUPPORT OUTLET BOX FROM STRUCTURE WITH (1) 3/8" ALL THREADS MINIMUM. BOXES LARGER THAN 25 SQUARE INCHES SHALL BE SUPPORTED WITH (2) 3/8" ALL THREADS MINIMUM.
- c) U.L. LISTED FOR WET LOCATION IN OPEN POSITION WITH ATTACHMENT PLUG INSERTED.
- d) JUNCTION/OUTLET BOX SHALL BE SIZED AS REQUIRED FOR CONDUCTOR/DEVICE FILL PER N.E.C.
- e) THREADED CONDUIT HUBS SHALL BE SIZED AND CONFIGURED AS REQUIRED FOR APPLICATION.
- f) IF WITHIN 30 MILES OF THE COAST LINE, COPPER FREE CAST ALUMINUM OUTLET BOXES SHALL BE USED FOR EXTERIOR APPLICATIONS.
- g) PROVIDE KINDORF MITG. RACK FOR FREE STANDING APPLICATIONS. KINDORF SHALL BE PVC COATED FOR EXTERIOR APPLICATIONS. ALL CUT ENDS ARE TO BE SEALED.
- h) WHEN SURFACE JUNCTION BOX SYMBOL IS COMBINED WITH DEVICE SYMBOL, PROVIDE APPROPRIATE SURFACE PLATE FOR OUTLET APPLICATION.
- i) MAINTAIN WORKING CLEARANCES IN STRICT ACCORDANCE WITH N.E.C. COORDINATE EXACT LOCATION OF EQUIPMENT WITH ALL DISCIPLINES (I.E. STRUCTURAL, HVAC, PLUMBING, FIRE PROTECTION, KITCHEN, MILLWORK, ETC.) PRIOR TO ROUGH-IN TO MAINTAIN CLEARANCES.
- j) OUTLET BOX SHALL BE SIZED PER SYSTEM INSTALLER REQUIREMENTS.
- k) COORDINATE THE TELEPHONE/DATA/SYSTEMS DEVICE, WIRE, CABLE, ETC WITH THE TELE/DATA/SYSTEMS SPECIFICATIONS, DRAWINGS, AND/OR SYMBOL LEGENDS.
- l) [PROVIDE 1" TO CEILING SPACE] [PROVIDE 1" TO [TTB] [STB] [CTB] [PROVIDE CONDUIT AS CALLED FOR ON SYSTEMS PLANS/SYMBOL LEGENDS]

\* - DESIGNATOR INDICATES TYPE OF COMMUNICATION OUTLET.

#### JAIL PDS SYSTEM GENERAL NOTES:

- 1) REFER TO SPECIFICATIONS.
- 2) REFER TO SPECIFICATIONS FOR BASIS OF DESIGN.
- 3) REFER TO DETAILS.
- 4) ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL PULL STRINGS IN ALL EMPTY RACEWAYS/CONDUITS.
- 5) LOCATION OF ALL DEVICES ON PLANS ARE APPROXIMATE ONLY. VERIFY EXACT LOCATIONS, HEIGHTS, ETC. WITH OWNER AND/OR ARCHITECT PRIOR TO ROUGH-IN.
- 6) COORDINATE EXACT INSTALLATION REQUIREMENTS OF OUTLETS IN MILLWORK WITH ARCHITECTURAL DRAWINGS AND APPROVED MILLWORK SHOP DRAWINGS.
- 7) PROVIDE FIRE STOPPING ON ALL CONDUITS [AND SLEEVES] PENETRATING A RATED WALL OR FLOOR.
- 8) ALL RACEWAYS TO BE CONCEALED UNLESS SPECIFICALLY NOTED OTHERWISE OR APPROVED BY ENGINEER. SEE SPECIFICATIONS AND GENERAL NOTES FOR ADDITIONAL CLARIFICATIONS.
- 9) ALL RACEWAY TERMINATIONS SHALL HAVE BUSHINGS AND BE GROUNDED WHERE RACEWAY IS METAL.
- 10) PROVIDE SYSTEM COMPLETE WITH ALL DEVICES, CABLES, PATHWAYS (RACEWAYS, CONDUITS, [SLEEVES], ETC).
- 11) ALL WIRE/CABLE SHALL BE IN A COMPLETE RACEWAY/CONDUIT SYSTEM. INSTALL/SIZE RACEWAY SYSTEM AS REQUIRED TO COMPLY WITH SPECIFICATIONS, THE N.E.C. AND AS RECOMMENDED BY MANUFACTURER.
- 12) MINIMUM RACEWAY/CONDUIT SIZE TO BE 1".
- 13) ALL COMMUNICATION WALL OUTLETS AND FLOOR OUTLETS SHALL HAVE A 1" MINIMUM CONDUIT WITH CABLE TO NEAREST STB UNLESS SHOWN OTHERWISE ON DRAWINGS.
- 14) CIRCUIT ALL DEVICES TO LOCAL SYSTEMS TERMINAL BOARD (STB). ALL TERMINATIONS AT STB SHALL BE AT DESIGNATED SECTION OF STB. COORDINATE WITH ALL SYSTEMS BEING TERMINATED ON STB.
- 15) PROVIDE AND INSTALL CABLE/WIRING AS RECOMMENDED BY MANUFACTURER AND APPLICABLE CODES AND STANDARDS, UNLESS OTHERWISE CALLED FOR ON DRAWINGS OR IN SPECIFICATIONS. WHERE CONFLICT EXISTS, THE LARGEST SIZE CALLED FOR SHALL BE USED.
- 16) SIZE PATHWAYS AS RECOMMENDED BY MANUFACTURER AND APPLICABLE CODES AND STANDARDS UNLESS OTHERWISE CALLED FOR ON DRAWINGS OR IN SPECIFICATIONS. WHERE CONFLICT EXISTS, THE LARGEST SIZE CALLED FOR SHALL BE USED.
- 17) ALL COMMUNICATIONS WALL OUTLET BOXES SHALL BE 4-11/16" x 4-11/16" x 2-3/4" DEEP FLUSH BOXES WITH TRIM RING AS REQUIRED TO ACCOMMODATE WALL CONSTRUCTION AND OUTLET FACEPLATE.
- 18) PROVIDE AND INSTALL (1) 4-PAIR CATEGORY 6 CABLE FOR EACH ACTIVE PORT IN EACH COMMUNICATION OUTLET CIRCUIT TO RESPECTIVE PATCH PANEL IN MDF/DF AT LOCAL STB UNLESS NOTED OTHERWISE.
- 19) ALL ITEMS NOTED ON THE LEGENDS DO NOT NECESSARILY APPEAR ON PLANS.

SYMBOL	DESCRIPTION	MOUNTING HEIGHT	MOUNTING	CABLING
⊖	COMMUNICATIONS OUTLET WITH (6) BLANKS (FOR FUTURE). WITH 1". TO NEAREST STB.	18" A.F.F. UNLESS OTHERWISE NOTED	FLUSH IN WALL	
⊖	COMMUNICATIONS OUTLET WITH STAINLESS STEEL BLANK PLATE.	18" A.F.F. UNLESS OTHERWISE NOTED	FLUSH IN WALL	
⊖1V1D	COMMUNICATIONS OUTLET WITH CABLE IN MINIMUM 1". TO NEAREST STB. (1) VOICE PORT, (1) DATA PORT, AND (4) BLANKS. WIRED COMPLETE.	18" A.F.F. UNLESS OTHERWISE NOTED	FLUSH IN WALL	TWO (2) CAT 6 CABLES
⊖1V2D	COMMUNICATIONS OUTLET WITH CABLE IN MINIMUM 1". TO NEAREST STB. (1) VOICE PORT, (2) DATA PORT, AND (3) BLANKS. WIRED COMPLETE.	18" A.F.F. UNLESS OTHERWISE NOTED	FLUSH IN WALL	THREE (3) CAT 6 CABLES
⊖1V	COMMUNICATIONS OUTLET WITH CABLE IN MINIMUM 1". TO NEAREST STB. (1) VOICE PORT AND (5) BLANKS. WIRED COMPLETE.	18" A.F.F. UNLESS OTHERWISE NOTED	FLUSH IN WALL	ONE (1) CAT 6 CABLES
⊖2V	COMMUNICATIONS OUTLET WITH CABLE IN MINIMUM 1". TO NEAREST STB. (2) VOICE PORTS, AND (4) BLANKS. WIRED COMPLETE.	18" A.F.F. UNLESS OTHERWISE NOTED	FLUSH IN WALL	TWO (2) CAT 6 CABLES
⊖3V	COMMUNICATIONS OUTLET WITH CABLE IN MINIMUM 1". TO NEAREST STB. (3) VOICE PORTS, AND (3) BLANKS. WIRED COMPLETE.	18" A.F.F. UNLESS OTHERWISE NOTED	FLUSH IN WALL	THREE (3) CAT 6 CABLES
⊖4V	COMMUNICATIONS OUTLET WITH CABLE IN MINIMUM 1". TO NEAREST STB. (4) VOICE PORTS, AND (2) BLANKS. WIRED COMPLETE.	18" A.F.F. UNLESS OTHERWISE NOTED	FLUSH IN WALL	FOUR (4) CAT 6 CABLES
⊖1D	COMMUNICATIONS OUTLET WITH CABLE IN MINIMUM 1". TO NEAREST STB. (1) DATA PORT, AND (5) BLANKS. WIRED COMPLETE.	18" A.F.F. UNLESS OTHERWISE NOTED	FLUSH IN WALL	ONE (1) CAT 6 CABLES
⊖2D	COMMUNICATIONS OUTLET WITH CABLE IN MINIMUM 1". TO NEAREST STB. (2) DATA PORTS, AND (4) BLANKS. WIRED COMPLETE.	18" A.F.F. UNLESS OTHERWISE NOTED	FLUSH IN WALL	TWO (2) CAT 6 CABLES
⊖3D	COMMUNICATIONS OUTLET WITH CABLE IN MINIMUM 1". TO NEAREST STB. (3) DATA PORTS, AND (3) BLANKS. WIRED COMPLETE.	18" A.F.F. UNLESS OTHERWISE NOTED	FLUSH IN WALL	THREE (3) CAT 6 CABLES
⊖4D	COMMUNICATIONS OUTLET WITH CABLE IN MINIMUM 1". TO NEAREST STB. (4) DATA PORTS, AND (2) BLANKS. WIRED COMPLETE.	18" A.F.F. UNLESS OTHERWISE NOTED	FLUSH IN WALL	FOUR (4) CAT 6 CABLES
⊖P	PAY TELEPHONE WALL OUTLET WITH 3/4" C. TO NEAREST TTB OR TTC UNLESS OTHERWISE NOTED	54" AFF	FLUSH	ONE (1) CAT 6
⊖W	WALL OUTLET BOX AND BLANK PLATE WITH MIN. 3/4" C. TO NEAREST TTB OR TTC (UNLESS OTHERWISE NOTED)	54" AFF TO TOP OR ABOVE COUNTER	FLUSH	ONE (1) CAT 6
⊖	COMMUNICATIONS OUTLET MOUNTED IN FLOOR BOX SEE GENERAL SYMBOL LEGEND. SEE SPECIFIC OUTLET SYMBOL FOR JACK AND WIRING REQUIREMENTS.	FLOOR	FLUSH	
IDF(MDF)	INTERMEDIATE DISTRIBUTION FRAME (MAIN DISTRIBUTION FRAME) CABINET			FREESTANDING
IDF(MDF)	INTERMEDIATE DISTRIBUTION FRAME (MAIN DISTRIBUTION FRAME) RACK			FREESTANDING
[TTB][STB][CTB]	[TELEPHONE], [SYSTEMS], [COMPUTER] TERMINAL BOARD (8"-0" HIGH).	SEE SPECIFICATIONS	SURFACE	
⊖	CABLE TRAY	AS SHOWN ON THE DRAWINGS (UNLESS OTHERWISE NOTED)	SUSPENDED FROM STRUCTURE	
PDS	PREMISES DISTRIBUTION SYSTEM RACEWAY WITH CABLE (UNLESS SPECIFICALLY OTHERWISE NOTED).	CONCEALED	CONCEALED	
⊖	RACEWAY INTERCEPTION POINT (TYPICAL)	CONCEALED	CONCEALED	



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## ORANGE COUNTY CORRECTIONS COMPOUND COMMUNICATIONS UPGRADE

#### Revisions

No.	Date	Description
Δ	07.21.14	Atendum #1

MPE PROJ#: 2014-040

Designed By: JEL/DAM

Drawn By: AG/JEL

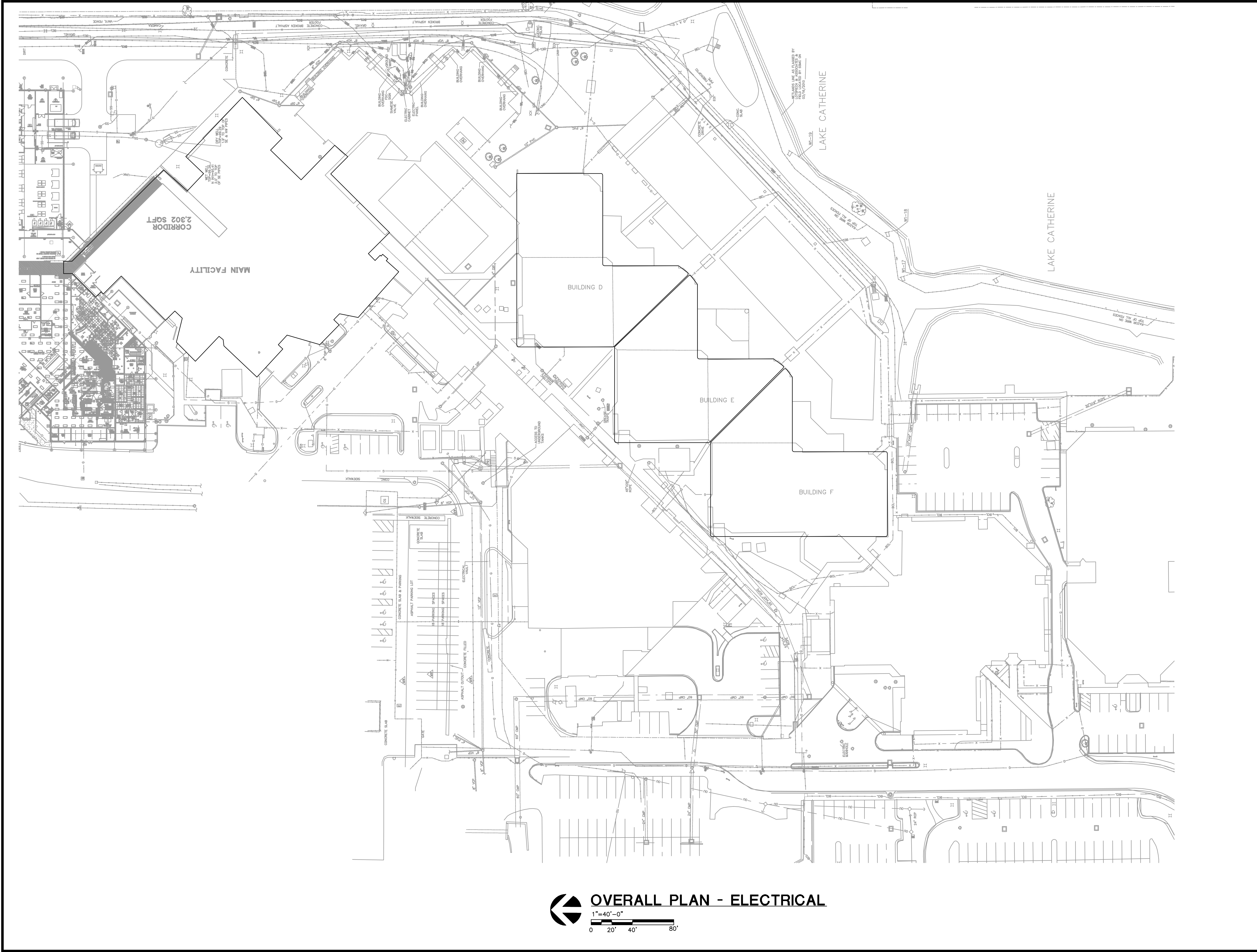
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Issue Date: 6/10/2014

Drawing Scale: NONE

Drawing Title:

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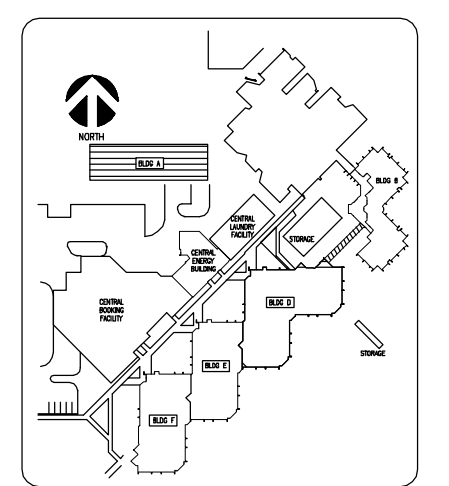
**OVERALL PLAN - ELECTRICAL**  
 1"=40'-0"  
 0 20' 40' 80'

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**ORANGE COUNTY CORRECTIONS COMPOUND COMMUNICATIONS UPGRADE**

Revisions

No.	Date	Description



Key Plan

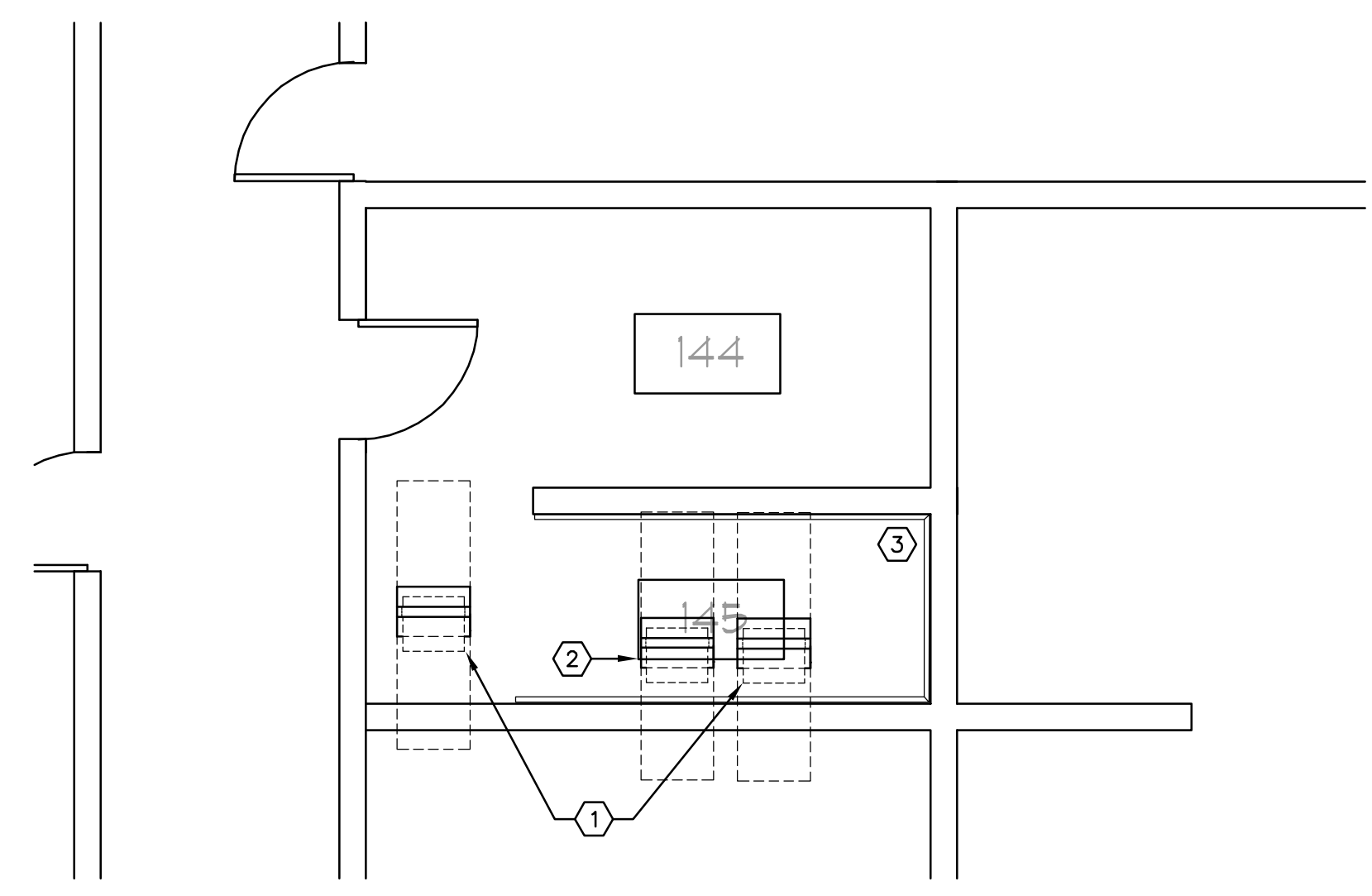
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 Designed By: JEL/DAM  
 Drawn By: AG/JEL/DAM  
 Checked By: DAM/CT  
 Issue Date: 6/10/2014  
 Drawing Scale: 1"=40'0"

**OVERALL PLAN ELECTRICAL**

**BID DOCUMENTS**  
 Drawing No.  
**E010**



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**ENLARGED FLOOR PLAN - LEVEL 1 - RENO - SYSTEMS**  
 1/4" = 1'-0"

- GENERAL NOTES**
- 1) REFER TO GENERAL NOTES FOR THIS DISCIPLINE.
  - 2) REFER TO SPECIFICATIONS.
  - 3) ALL HEX NOTES NOT NECESSARILY USED ON ALL SHEETS.
  - 4) EXISTING CONDUIT ROUTING IS UNKNOWN.
  - 5) WHERE CONDUIT ROUTING IS SHOWN, THE CONDUITS ARE SHOWN FOR DIAGRAMMATIC PURPOSES AND ARE NOT NECESSARILY REPRESENTATIVE OF EXACT PLACEMENT.
  - 6) CONTRACTOR SHALL IDENTIFY ALL EXISTING CONDUITS, JUNCTION BOXES, ETC. (ABOVE NEW CEILINGS) IN ACCORDANCE WITH CONTRACT SPECIFICATIONS.
  - 7) RELOCATE/REWORK EXISTING ELECTRICAL AS REQUIRED TO FACILITATE RENOVATION.
  - 8) CONTRACTOR SHALL MAINTAIN CONTINUITY TO EXISTING FIXTURES AND/OR DEVICES REMAINING.
  - 9) REFER TO RACK ELEVATIONS.
  - 10) COORDINATE WITH OC CORRECTIONS FACILITY I.T. FOR ALL EQUIPMENT/OUTLET DEMOLITION.
  - 11) ALL F.O. CABLE SERVICE LOOPS TO BE COILED ON DESIGNATED SECTION OF TTB.
  - 12) REMOVE COMPLETE ALL EQUIPMENT ON TTB NOT IN USE.
  - 13) CONTRACTOR SHALL PROVIDE NEW LABELING THROUGHOUT SYSTEM, COORDINATED WITH ORANGE COUNTY CORRECTIONS IT DEPARTMENT, TO REFLECT CHANGES TO EXISTING SYSTEM AND NEW OUTLET TERMINATIONS.
  - 14) FOR THIS ROOM, PROVIDE WIRE MANAGEMENT TO EXISTING RACKS TO FACILITATE THE ACCEPTABLE ORGANIZATION OF THE EXISTING CABLES AND WIRERAYS.
  - 15) PROVIDE AN ADDITIONAL 2 POST RACK (LOCATION SHOWN) FOR THE SPACE NECESSARY FOR THE EXISTING EQUIPMENT WITH THE ADDITION OF THE NEW WIRE MANAGEMENT, AS WELL AS FOR FUTURE EQUIPMENT.

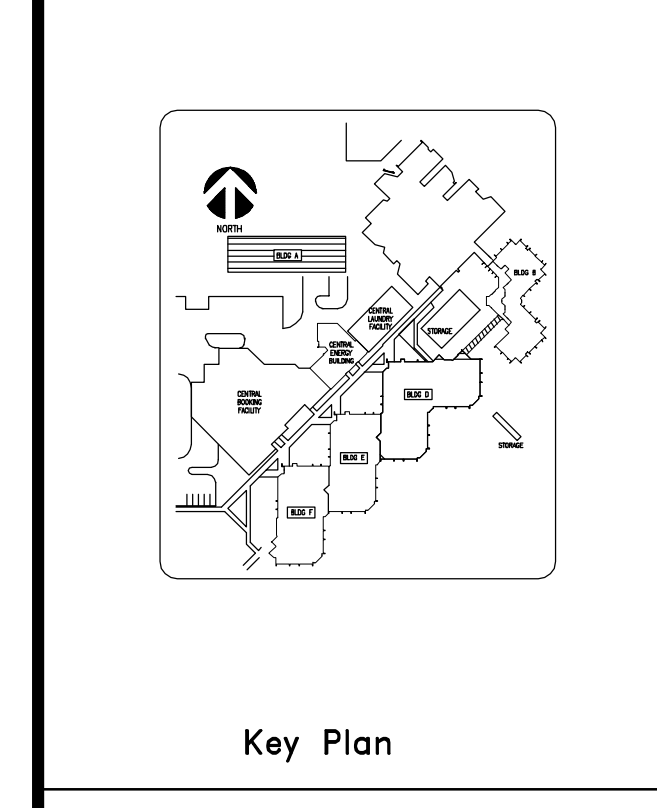
- HEX NOTES**
- ① EXISTING (2) POST RACKS. PROVIDE WITH VERTICAL AND HORIZONTAL WIRE MANAGEMENT.
  - ② PROVIDE NEW (2) POST RACK. PROVIDE WITH VERTICAL AND HORIZONTAL WIRE MANAGEMENT. SECURELY BOLT RACK TO CONCRETE DECKING
  - ③ EXISTING WALL MOUNTED PANEL BOARDS.

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**ORANGE COUNTY  
 CORRECTIONS  
 COMPOUND  
 COMMUNICATIONS  
 UPGRADE**

**Revisions**

No.	Date	Description



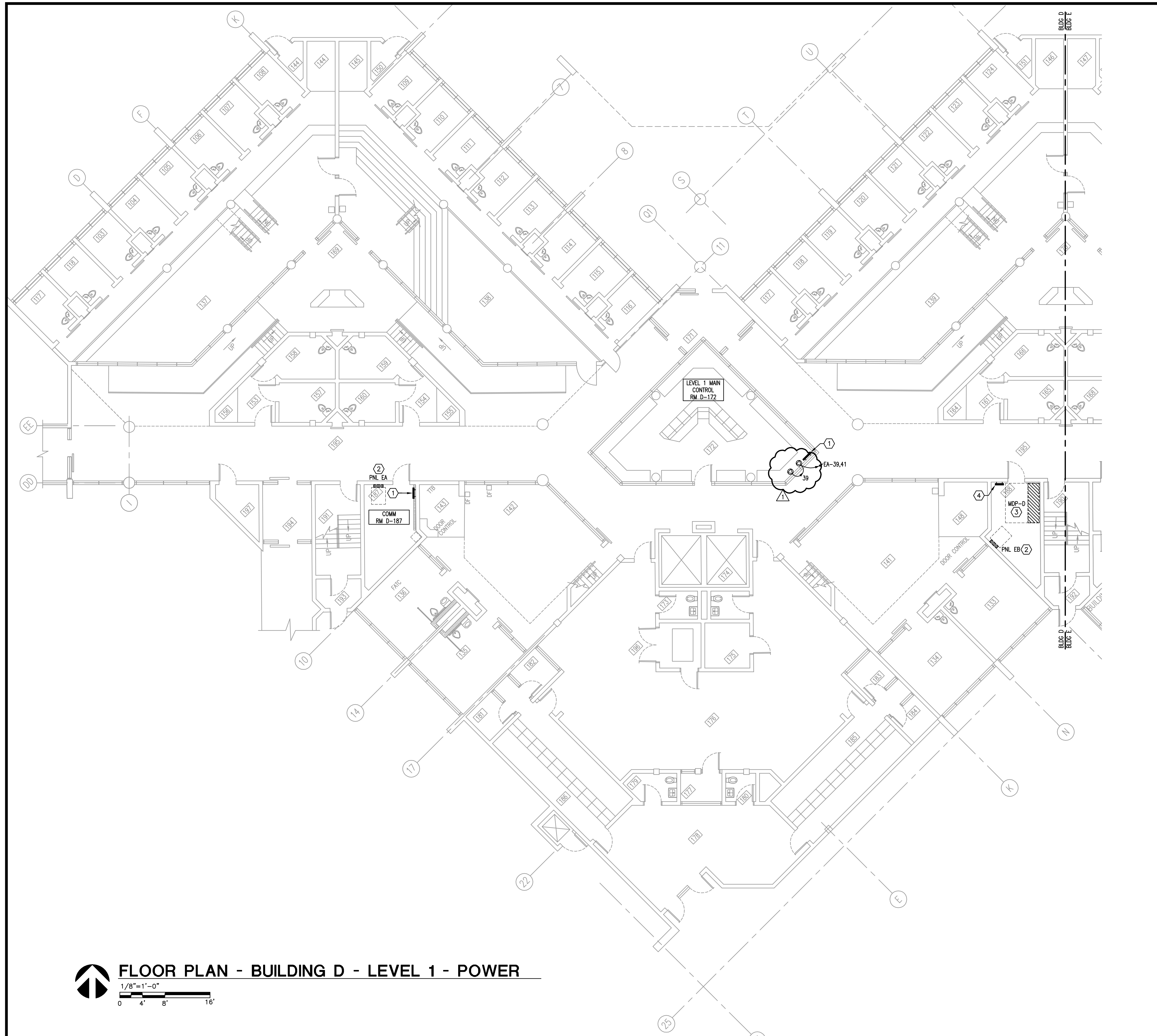
MPE PROJ#: 2014-040  
 Designed By: JEL/DAM  
 Drawn By: AG/JEL/DAM  
 Checked By: DAM  
 Issue Date: 6/10/2014  
 Drawing Scale: 1/8" = 1'-0"

**ENLARGED PLAN  
 BUILDING A  
 LEVEL 1  
 SYSTEMS**

**BID DOCUMENTS**

Drawing No.  
**E-A-401**

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 PLOT DATE: 7/21/2014 3:30:11 PM  
 MATERN PROFESSIONAL ENGINEERING



- GENERAL NOTES**
- 1) REFER TO GENERAL NOTES FOR THIS DISCIPLINE.
  - 2) REFER TO SPECIFICATIONS.
  - 3) ALL HEX NOTES NOT NECESSARILY USED ON ALL SHEETS.
  - 4) EXISTING CONDUIT ROUTING IS UNKNOWN.
  - 5) WHERE CONDUIT ROUTING IS SHOWN, THE CONDUITS ARE SHOWN FOR DIAGRAMMATIC PURPOSES AND ARE NOT NECESSARILY REPRESENTATIVE OF EXACT PLACEMENT.
  - 6) CONTRACTOR SHALL IDENTIFY ALL EXISTING CONDUITS, JUNCTION BOXES, ETC. (ABOVE NEW CEILINGS) IN ACCORDANCE WITH CONTRACT SPECIFICATIONS.
  - 7) RELOCATE/REWORK EXISTING ELECTRICAL AS REQUIRED TO FACILITATE RENOVATION.
  - 8) CONTRACTOR SHALL MAINTAIN CONTINUITY TO EXISTING FIXTURES AND/OR DEVICES REMAINING.

- HEX NOTES**
- 1 PROVIDE NEW SYSTEMS GROUND BUS BAR. REFER TO DETAIL. PROVIDE CONDUIT AND CABLE AS INDICATED IN GROUNDING SYSTEM DETAIL AND INTERCONNECT AS SHOWN ON RISER DIAGRAM.
  - 2 EXISTING PANEL TO BE REWORKED TO FACILITATE NEW CIRCUITS BEING ADDED. REFER TO PANEL SCHEDULES.
  - 3 EXISTING BUILDING MAIN SERVICE.
  - 4 PROVIDE NEW MAIN SYSTEM BUS BAR. CONNECT TO MDP-D INTERNAL GROUND BUSS. REFER TO RISER DIAGRAM.

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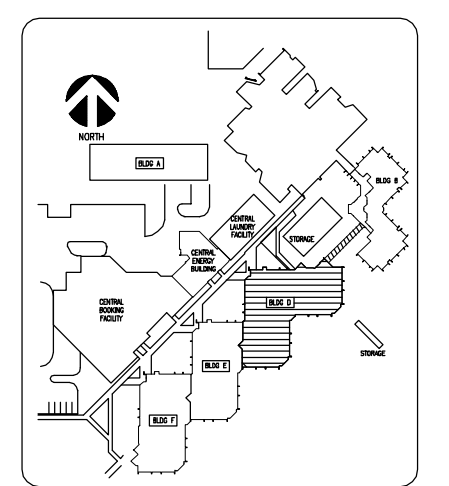
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ENG. BUS. No. EB-0005096 CERT. OF AUTH. No. 5206

**ORANGE COUNTY  
 CORRECTIONS  
 COMPOUND  
 COMMUNICATIONS  
 UPGRADE**

**Revisions**

No.	Date	Description
△	07.21.14	Adendum #1



Key Plan

MPE PROJ#: 2014-040  
 Designed By: JEL/DAM  
 Drawn By: AG/JEL/DAM  
 Checked By: DAM/CT  
 Issue Date: 6/10/2014  
 Drawing Scale: 1/8"=1'-0"

**FLOOR PLAN  
 BUILDING D  
 LEVEL 1  
 POWER**

**BID DOCUMENTS**

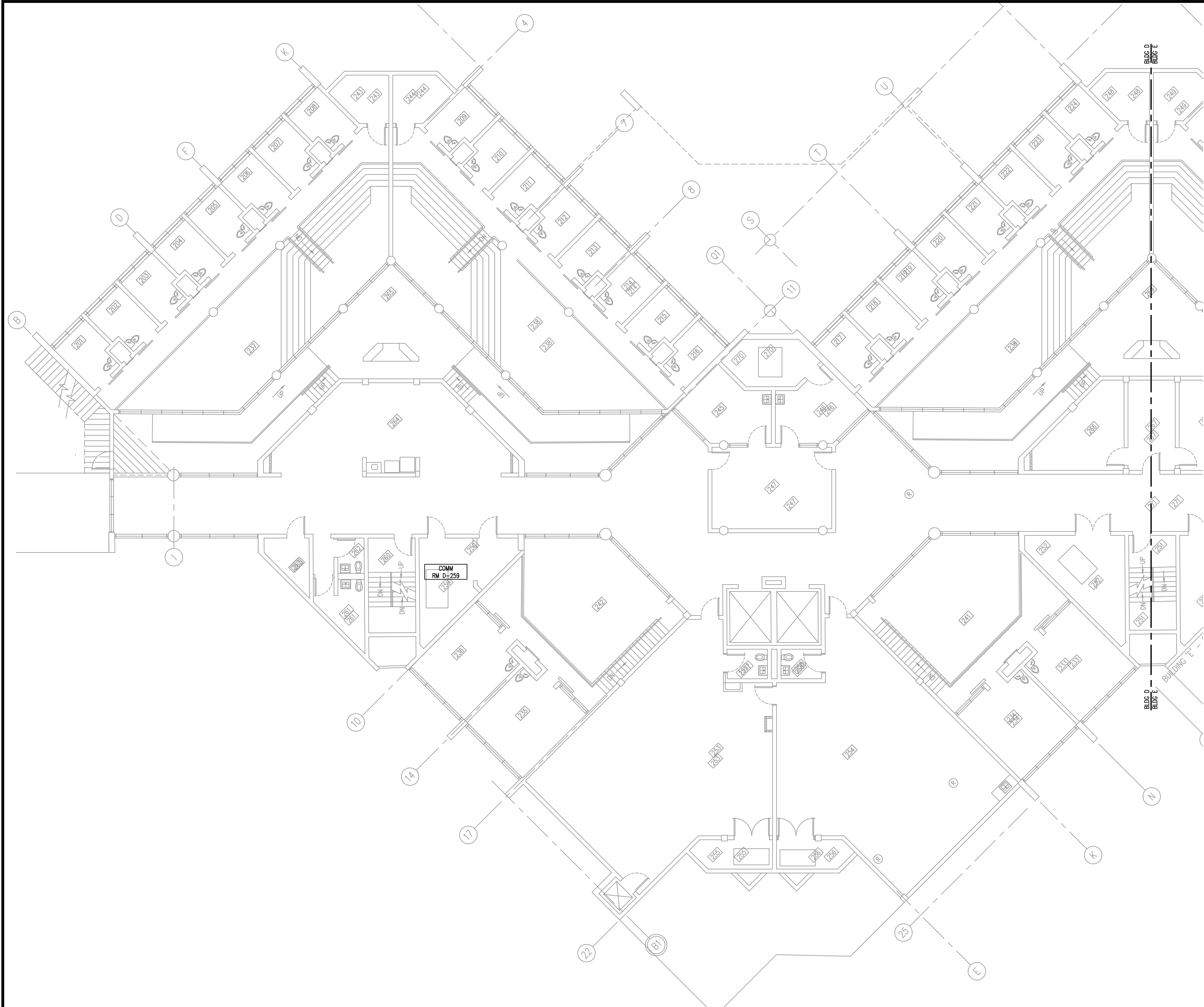
Drawing No.  
**E-D-101**

**FLOOR PLAN - BUILDING D - LEVEL 1 - POWER**

1/8"=1'-0"



MATERN PROFESSIONAL ENGINEERING PLOT DATE: 6/13/2014 8:02:19 AM FILENAME: I:\2014\_jobs\2014-04-00 Corrections Compound Comm Upgrade Design\DAO\2014-04-00-E-102.dwg  
 CREATE DATE: 3/31/2014 10:09:12 AM LAST SAVED: 6/10/2014 10:04:41 AM LAST SAVED BY: JLANDS



**FLOOR PLAN - BUILDING D - LEVEL 2 - RENO - POWER**  
 1/8" = 1'-0"  
 0 4 8 16'

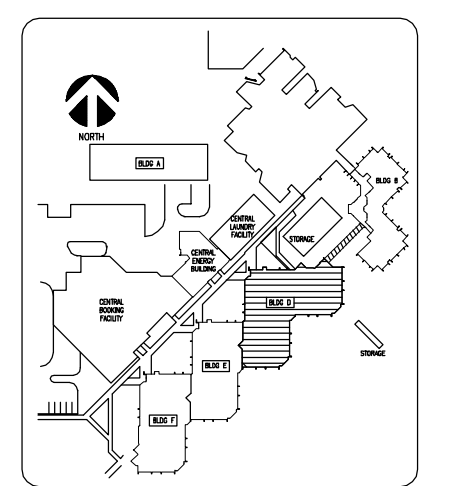
- GENERAL NOTES**
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 ENG. BUS. No. EB-0005096 CERT. OF AUTH. No. 5096

**ORANGE COUNTY  
 CORRECTIONS  
 COMPOUND  
 COMMUNICATIONS  
 UPGRADE**

**Revisions**

No.	Date	Description



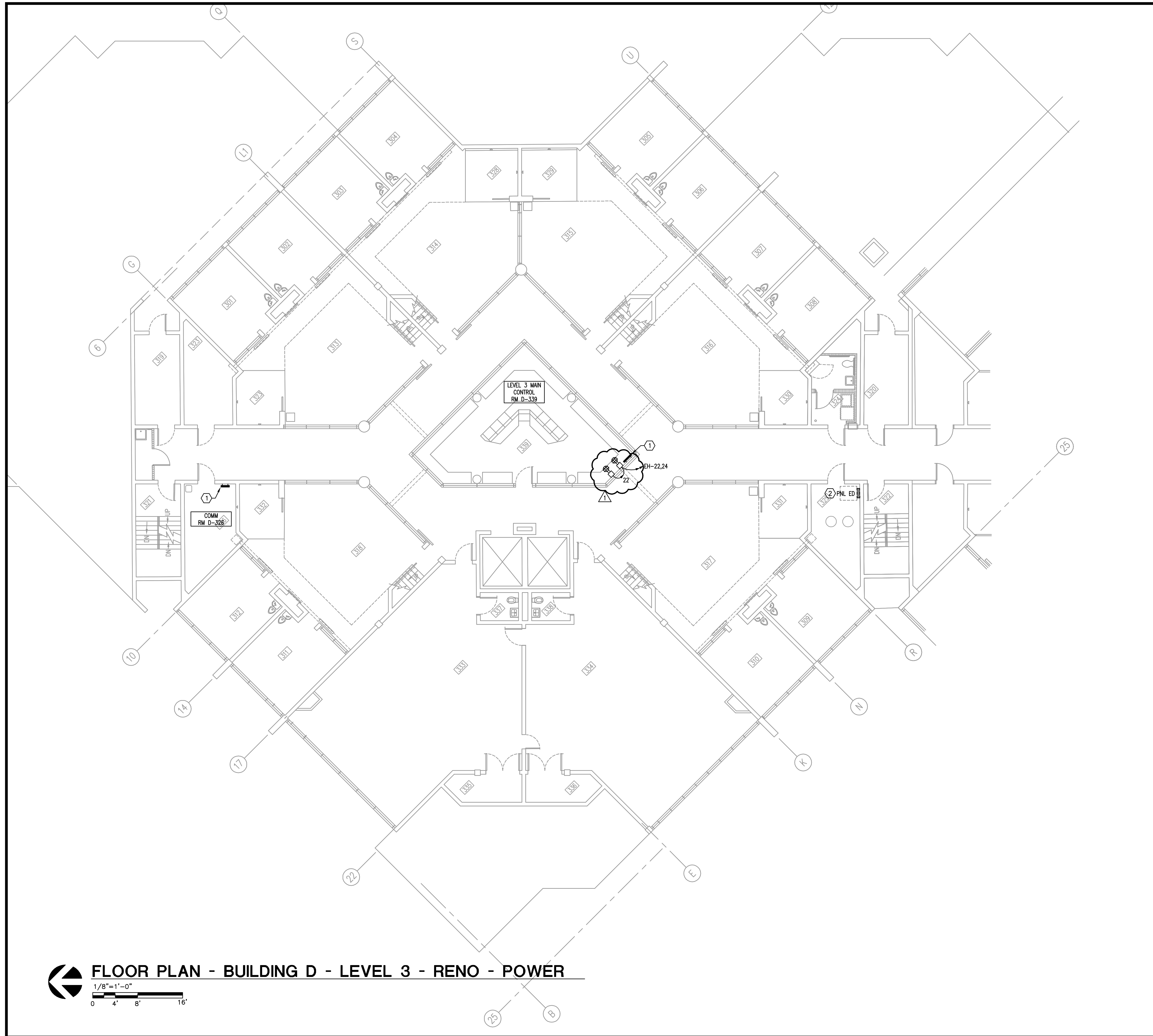
Key Plan

MPE PROJ#: 2014-040  
 Designed By: JEL/DAM  
 Drawn By: AG/JEL/DAM  
 Checked By: DAM/CT  
 Issue Date: 6/10/2014  
 Drawing Scale: 1/8" = 1'-0"

**Drawing Title:**  
**FLOOR PLAN  
 BUILDING D  
 LEVEL 1 - RENO  
 POWER**

**BID DOCUMENTS**  
 Drawing No.  
**E-D-102**

MATERN PROFESSIONAL ENGINEERING PLOT DATE: 7/21/2014 3:30:04 PM FILENAME: I:\2014\_jobs\2014-04-00-Corrections Compound Comm Upgrade Design\CAD\2014-04-04-E-103.dwg  
 CREATE DATE: 3/21/2014 10:09:43 AM LAST SAVED: 7/17/2014 8:17:34 AM LAST SAVED BY: JIANDS



- GENERAL NOTES**
- REFER TO GENERAL NOTES FOR THIS DISCIPLINE.
  - REFER TO SPECIFICATIONS.
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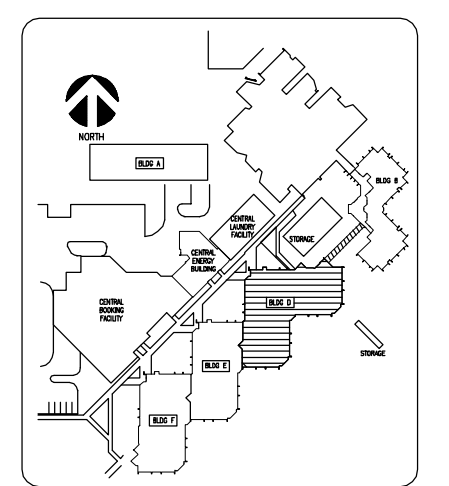
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**mp MATERN PROFESSIONAL ENGINEERING**  
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 ENG. BUS. No. EB-0005096 CERT. OF AUTH. No. 5096

**ORANGE COUNTY CORRECTIONS COMPOUND COMMUNICATIONS UPGRADE**

**Revisions**

No.	Date	Description
△	07.21.14	Adendum #1



Key Plan

MPE PROJ#: 2014-040  
 Designed By: JEL/DAM  
 Drawn By: AG/JEL/DAM  
 Checked By: DAM/CT  
 Issue Date: 6/10/2014  
 Drawing Scale: 1/8"=1'-0"

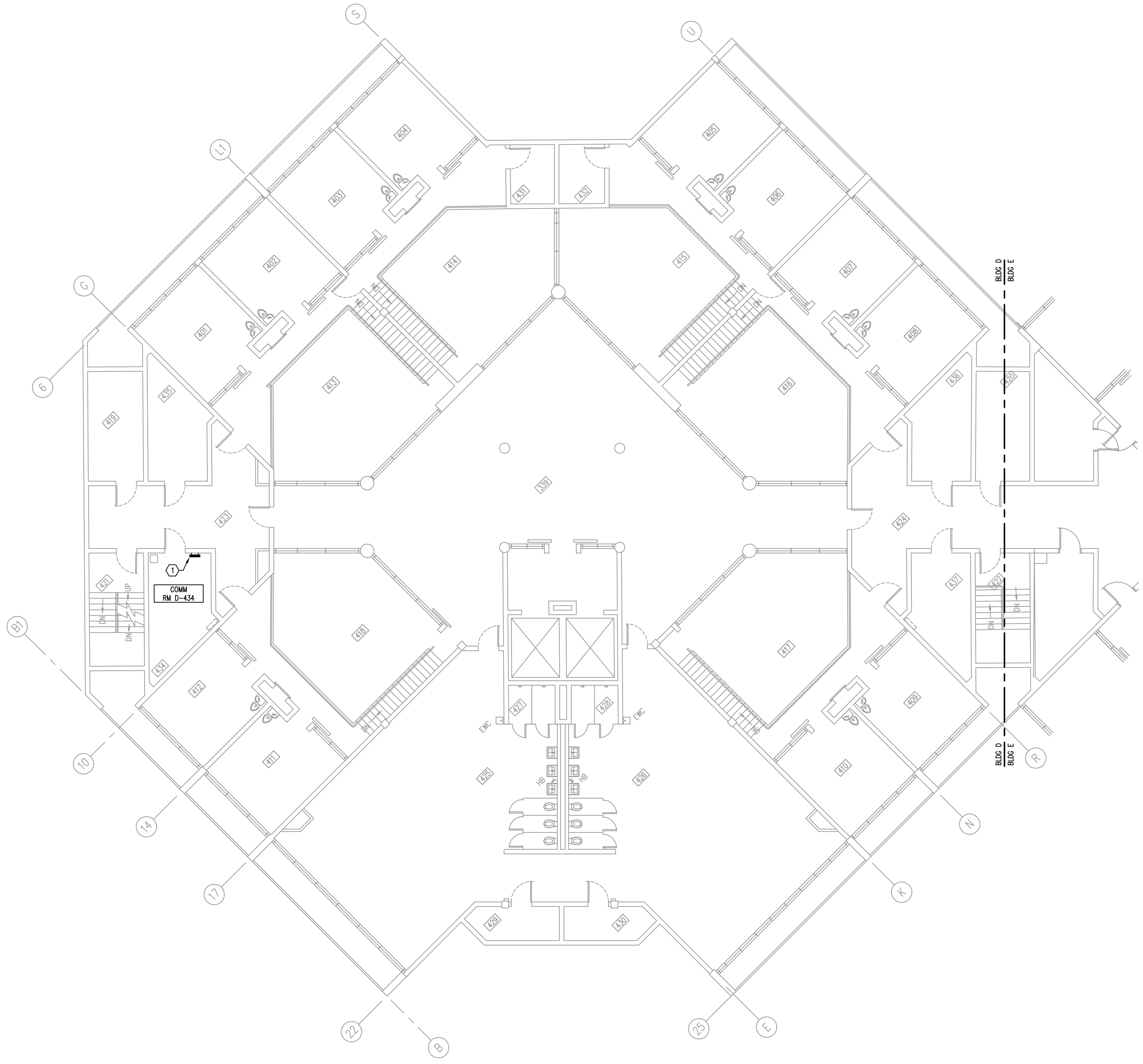
**FLOOR PLAN BUILDING D LEVEL 3 RENO - POWER**

**BID DOCUMENTS**  
 Drawing No.  
**E-D-103**

**FLOOR PLAN - BUILDING D - LEVEL 3 - RENO - POWER**  
 1/8"=1'-0"  
 0 4' 8' 16'



MATERN PROFESSIONAL ENGINEERING PLOT DATE: 6/13/2014 8:02:27 AM FILENAME: I:\2014\_jobs\2014-04-00-Corrections Compound Comm Upgrade Design\CAD\2014-04-00-E-D-104.dwg  
 CREATE DATE: 3/31/2014 10:10:09 AM LAST SAVED: 6/10/2014 10:04:31 AM LAST SAVED BY: JLANDIS



- GENERAL NOTES**
- REFER TO GENERAL NOTES FOR THIS DISCIPLINE.
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**HEX NOTES**

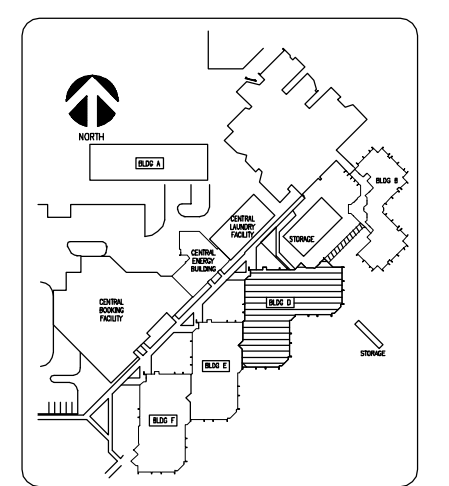
- PROVIDE NEW SYSTEMS GROUND BUS BAR. REFER TO DETAIL. PROVIDE CONDUIT AND CABLE AS INDICATED IN GROUNDING SYSTEM DETAIL AND INTERCONNECT AS SHOWN ON RISER DIAGRAM.

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 ENG. BUS. No. EB-0005096 CERT. OF AUTH. No. 5096

**ORANGE COUNTY CORRECTIONS COMPOUND COMMUNICATIONS UPGRADE**

**Revisions**

No.	Date	Description



Key Plan

MPE PROJ#: 2014-040  
 Designed By: JEL/DAM  
 Drawn By: AG/JEL/DAM  
 Checked By: DAM/CT  
 Issue Date: 6/10/2014  
 Drawing Scale: 1/8"=1'-0"

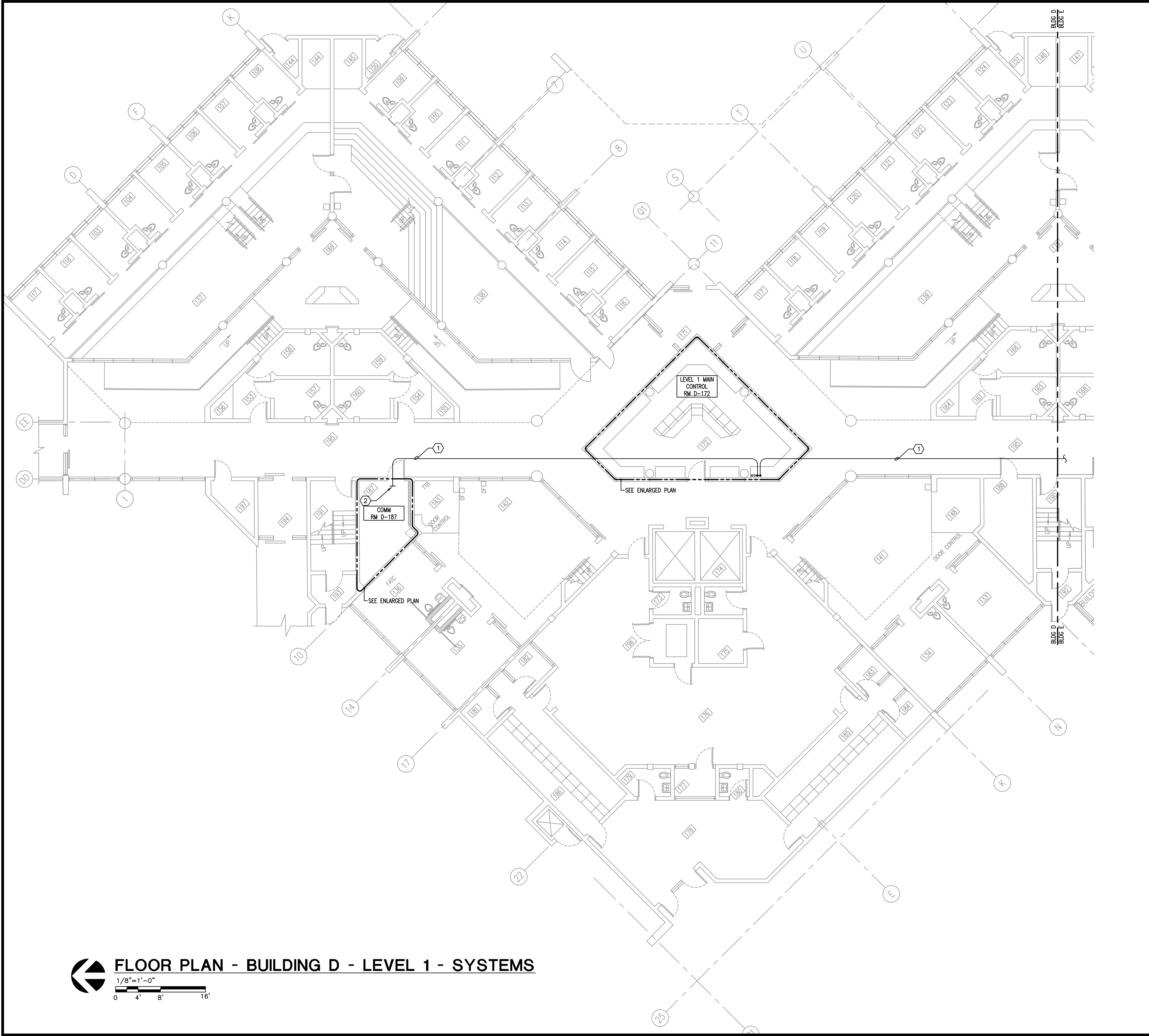
**BID DOCUMENTS**

Drawing Title:  
**FLOOR PLAN  
 BUILDING D  
 LEVEL 4  
 RENO - POWER**

Drawing No.  
**E-D-104**

**FLOOR PLAN - BUILDING D - LEVEL 4 - RENO - POWER**  
 1/8"=1'-0"  
 0 4' 8' 16'

MATERN PROFESSIONAL ENGINEERING PLOT DATE: 6/13/2014 8:02:30 AM FILENAME: I:\2014\_jobs\2014-04-00-Corrections Compound Comm Upgrade Design\DAO\2014-04-00-E-D-301.dwg  
 CREATE DATE: 2/26/2014 2:56:04 PM LAST SAVED: 6/10/2014 10:04:23 AM LAST SAVED BY: JIANDS



- GENERAL NOTES**
- REFER TO GENERAL NOTES FOR THIS DISCIPLINE.
  - REFER TO SPECIFICATIONS.
  - ALL HEX NOTES NOT NECESSARILY USED ON ALL SHEETS.
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  - CONTRACTOR SHALL MAINTAIN CONTINUITY TO EXISTING FIXTURES AND/OR DEVICES REMAINING.
  - REFER TO RACK ELEVATIONS.
  - COORDINATE WITH OC CORRECTIONS FACILITY I.T. FOR ALL EQUIPMENT/OUTLET DEMOLITION.
  - ALL F.O. CABLE SERVICE LOOPS TO BE COILED ON DESIGNATED SECTION OF TTB.
  - REMOVE COMPLETE ALL EQUIPMENT ON TTB NOT IN USE.

**HEX NOTES**

- NEW CONDUIT, ABOVE FIXED CEILING. REFER TO SYSTEMS RISER.
- TERMINATE WITH BUSHING AT OVERHEAD CABLETRAY.

**Key Plan**

MPE PROJ#: 2014-040  
 Designed By: JEL/DAM  
 Drawn By: AG/JEL/DAM  
 Checked By: DAM/CT  
 Issue Date: 6/10/2014  
 Drawing Scale: 1/8"=1'-0"  
 Drawing Title:  
**FLOOR PLAN  
 BUILDING D  
 LEVEL 1  
 SYSTEMS**  
**BID DOCUMENTS**  
 Drawing No.  
**E-D-301**

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 ENG. BUS. No. EB-0005096 CERT. OF AUTH. No. 5096

**ORANGE COUNTY  
 CORRECTIONS  
 COMPOUND  
 COMMUNICATIONS  
 UPGRADE**

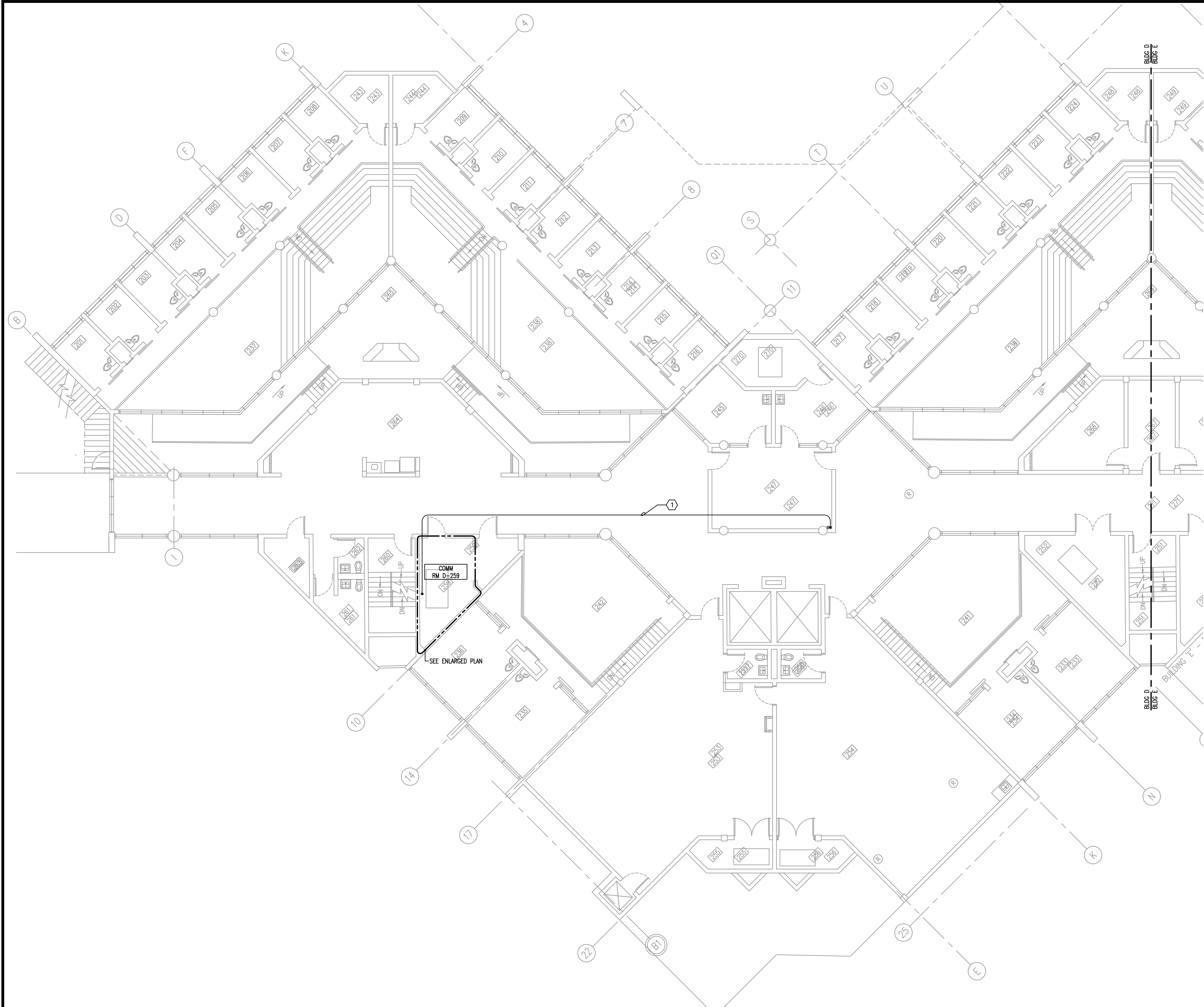
**Revisions**

No.	Date	Description

**FLOOR PLAN - BUILDING D - LEVEL 1 - SYSTEMS**  
 1/8"=1'-0"  
 0 4' 8' 16'



MATERN PROFESSIONAL ENGINEERING PLOT DATE: 6/13/2014 8:02:34 AM FILENAME: I:\2014\_jobs\2014-04-OC Corrections Compound Comm Upgrade Design\DAO\2014-04-04-E-D-302.dwg  
 CREATE DATE: 2/26/2014 2:56:04 PM LAST SAVED: 6/10/2014 10:04:18 AM LAST SAVED BY: JLANDS



**FLOOR PLAN - BUILDING D - LEVEL 2 - RENO - SYSTEMS**  
 1/8" = 1'-0"

- GENERAL NOTES**
- 1) REFER TO GENERAL NOTES FOR THIS DISCIPLINE.
  - 2) REFER TO SPECIFICATIONS.
  - 3) ALL HEX NOTES NOT NECESSARILY USED ON ALL SHEETS.
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  - 8) CONTRACTOR SHALL MAINTAIN CONTINUITY TO EXISTING FIXTURES AND/OR DEVICES REMAINING.
  - 9) REFER TO RACK ELEVATIONS.
  - 10) COORDINATE WITH OC CORRECTIONS FACILITY I.T. FOR ALL EQUIPMENT/OUTLET DEMOLITION.
  - 11) REMOVE COMPLETE ALL EQUIPMENT ON ITB NOT IN USE.

**HEX NOTES**

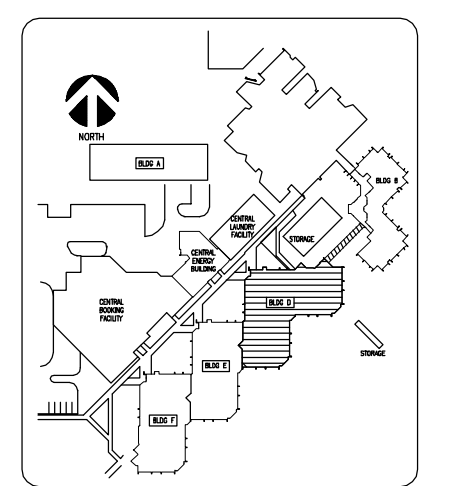
① NEW CONDUIT, ABOVE FIXED CEILING. REFER TO SYSTEMS RISER.

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**ORANGE COUNTY  
 CORRECTIONS  
 COMPOUND  
 COMMUNICATIONS  
 UPGRADE**

**Revisions**

No.	Date	Description



Key Plan

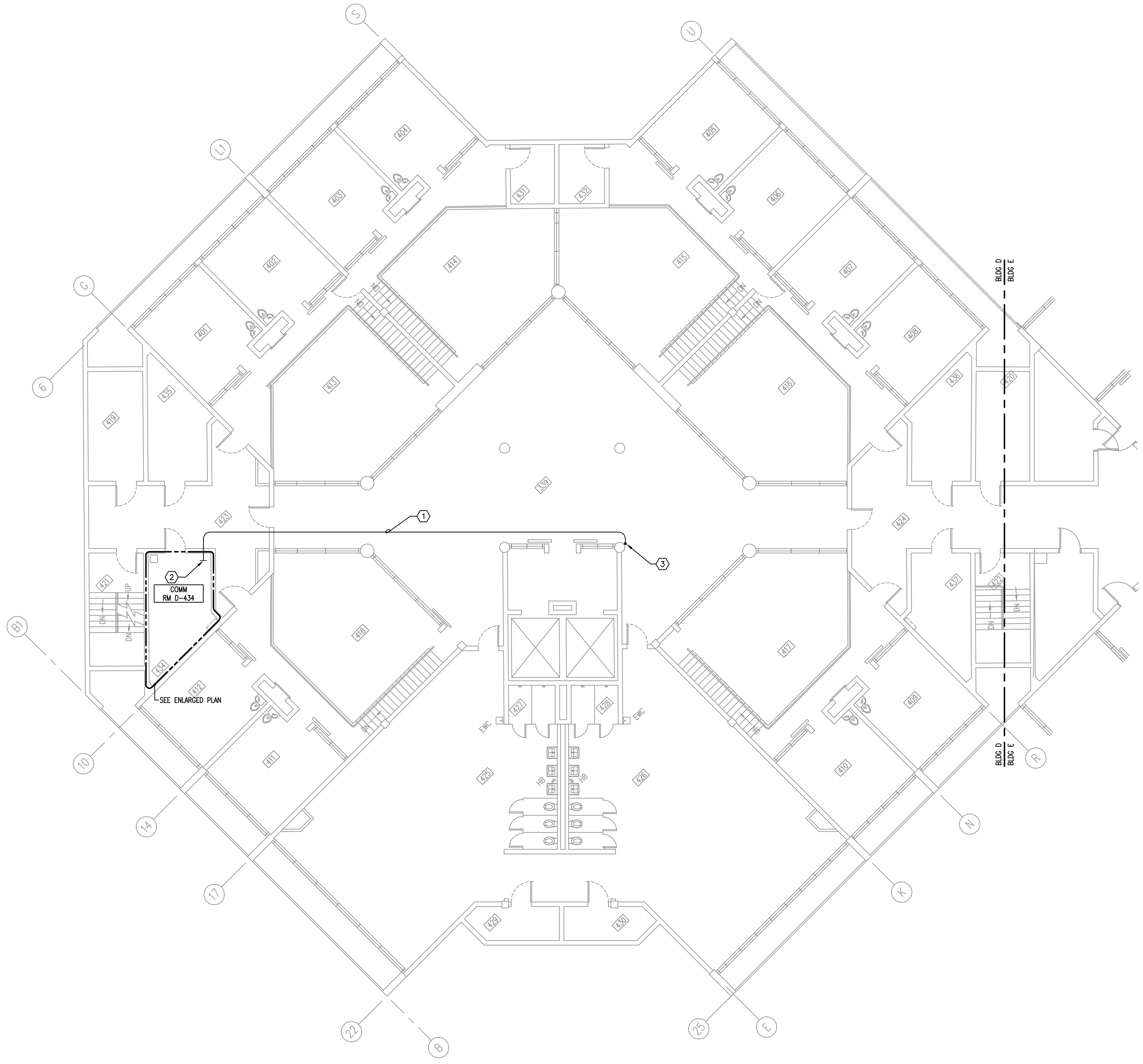
MPE PROJ#: 2014-040  
 Designed By: JEL/DAM  
 Drawn By: AG/JEL/DAM  
 Checked By: DAM/CT  
 Issue Date: 6/10/2014  
 Drawing Scale: 1/8" = 1'-0"

**Drawing Title:**  
**FLOOR PLAN  
 BUILDING D  
 LEVEL 1 - RENO  
 SYSTEMS**

**BID DOCUMENTS**  
 Drawing No.  
**E-D-302**



MATERN PROFESSIONAL ENGINEERING PLOT DATE: 6/13/2014 8:02:41 AM FILENAME: I:\2014\_jobs\2014-04-OC Corrections Compound Comm Upgrade Design\CAD\2014-04-E-D-304.dwg  
 CREATE DATE: 2/26/2014 4:16:44 PM LAST SAVED: 6/10/2014 10:04:04 AM LAST SAVED BY: JLANDIS



- GENERAL NOTES**
- 1) REFER TO GENERAL NOTES FOR THIS DISCIPLINE.
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  - 10) ALL F.O. CABLE SERVICE LOOPS TO BE COILED ON DESIGNATED SECTION OF TTB.
  - 11) REMOVE COMPLETE ALL EQUIPMENT ON TTB NOT IN USE.

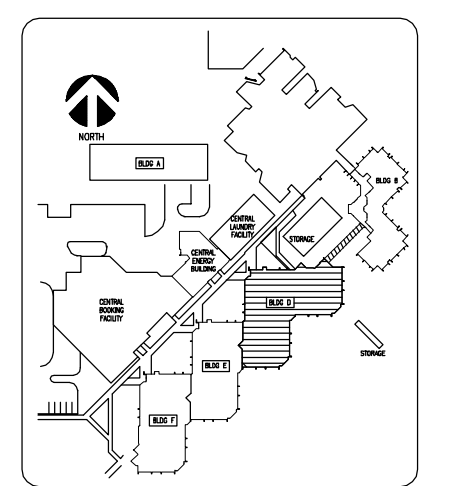
- HEX NOTES**
- ① NEW CONDUIT, ABOVE FIXED CEILING. REFER TO SYSTEMS RISER.
  - ② TERMINATE WITH BUSHING AT OVERHEAD CABLETRAY.
  - ③ CONDUIT ROUNDED UP COLUMN. PROVIDE PROTECTION. REFER TO COLUMN CONDUIT DETAILS. PROVIDE THE APPROPRIATE CONDUIT AMOUNTS AND SIZES TO CONFORM WITH THE PROJECT AS SHOWN IN THE CONTRACT DOCUMENTS. USE APPROPRIATE DETECTION EQUIPMENT PRIOR TO PENETRATING SLAB.

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**ORANGE COUNTY CORRECTIONS COMPOUND COMMUNICATIONS UPGRADE**

**Revisions**

No.	Date	Description



Key Plan

MPE PROJ#: 2014-040  
 Designed By: JEL/DAM  
 Drawn By: AG/JEL/DAM  
 Checked By: DAM/CT  
 Issue Date: 6/10/2014  
 Drawing Scale: 1/8"=1'-0"

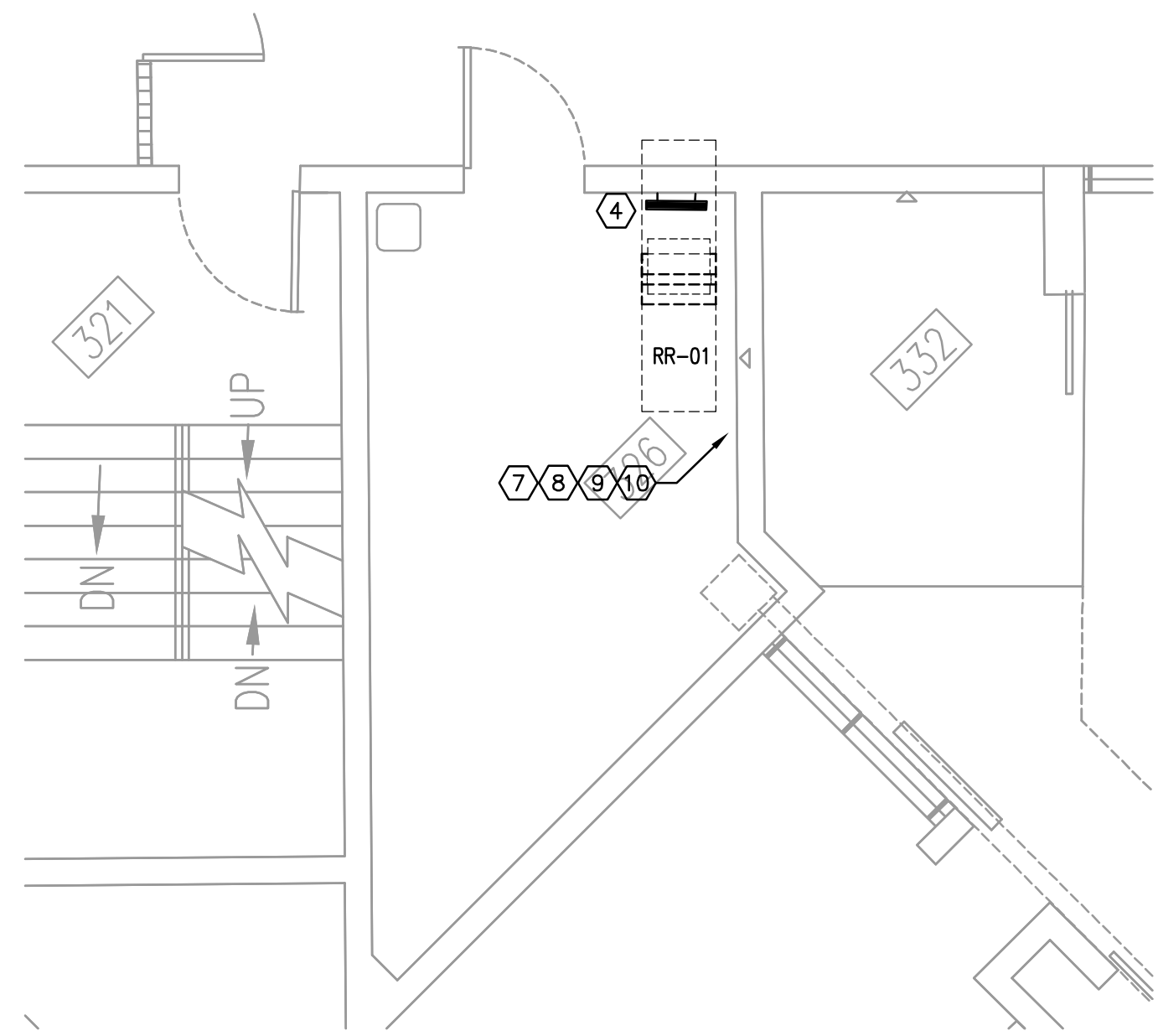
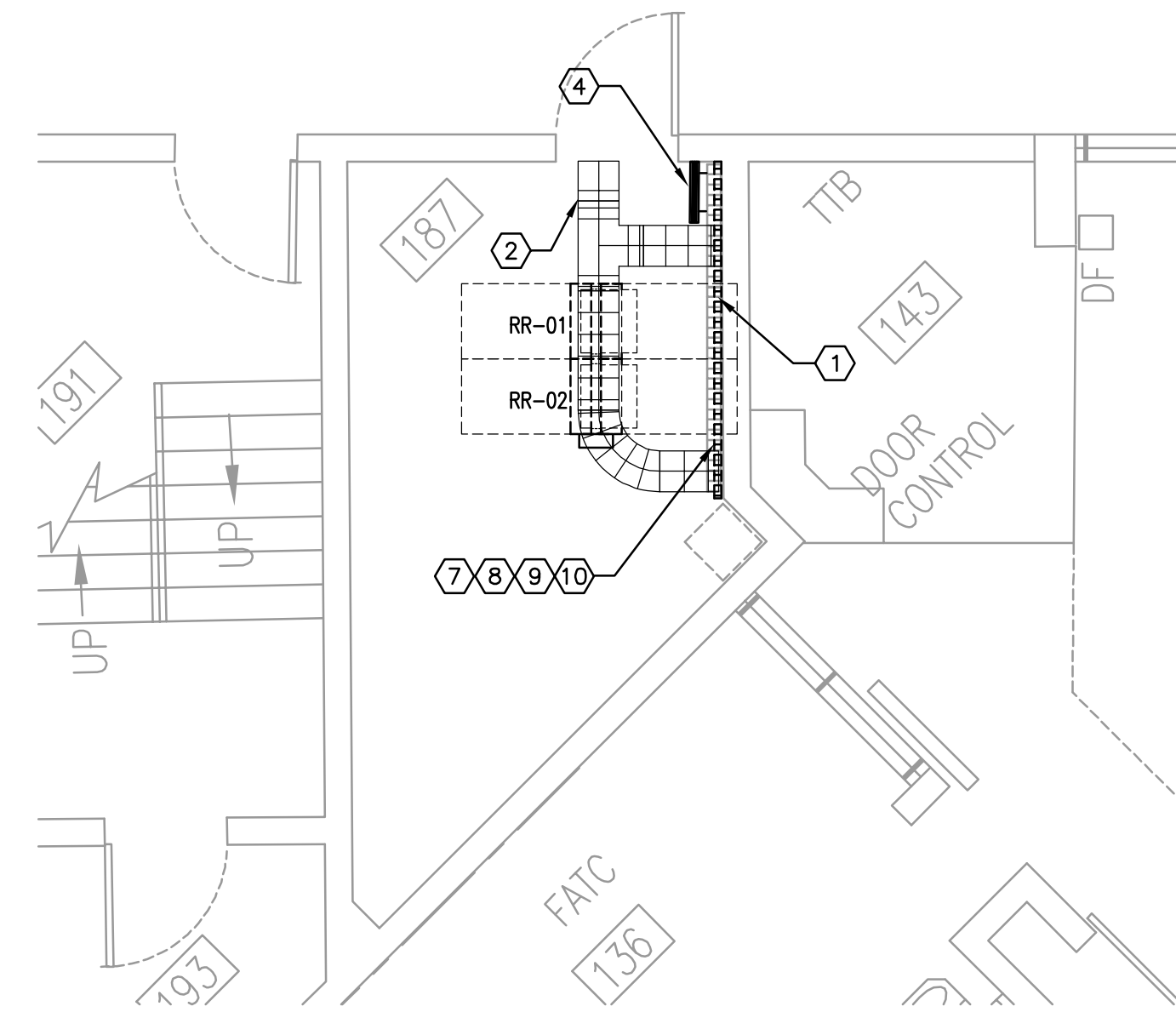
**FLOOR PLAN BUILDING D LEVEL 4 RENO - SYSTEMS**

**BID DOCUMENTS**  
 Drawing No.  
**E-D-304**

**FLOOR PLAN - BUILDING D - LEVEL 4 - RENO - SYSTEMS**  
 1/8"=1'-0"  
 0 4' 8' 16'

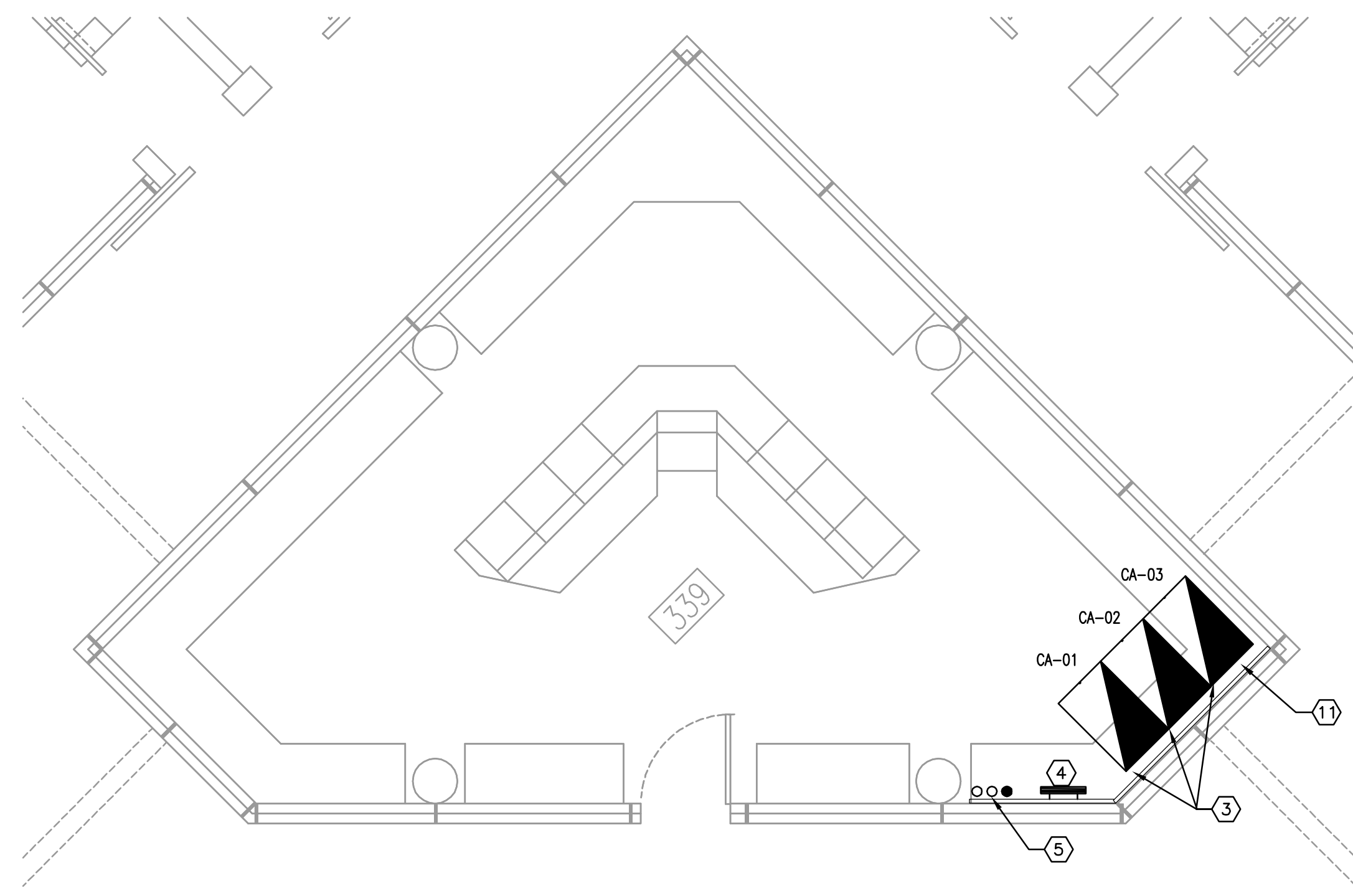
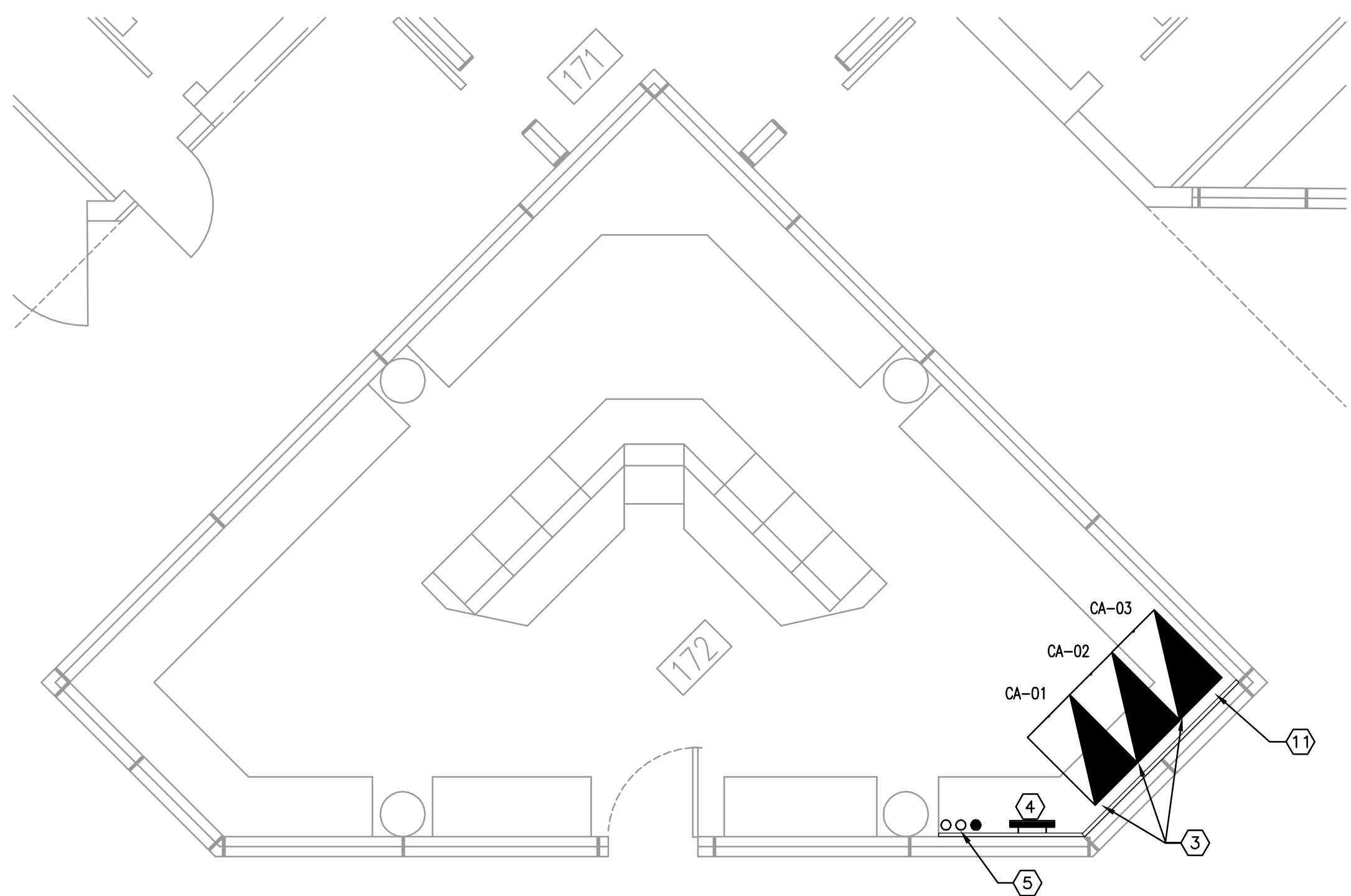


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 PLOT DATE: 6/13/2014 8:02:46 AM  
 MATERN PROFESSIONAL ENGINEERING



**ENLARGED FLOOR PLAN - ROOM 187 - RENO - SYSTEMS**  
 1/4" = 1'-0"

**ENLARGED FLOOR PLAN - ROOM 326 - RENO - SYSTEMS**  
 1/4" = 1'-0"



**ENLARGED FLOOR PLAN - ROOM 172 - RENO - SYSTEMS**  
 1/4" = 1'-0"

**ENLARGED FLOOR PLAN - ROOM 339 - RENO - SYSTEMS**  
 1/4" = 1'-0"

**GENERAL NOTES**

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- 10) ALL F.O. CABLE SERVICE LOOPS TO BE COILED ON DESIGNATED SECTION OF TTB.
- 11) REMOVE COMPLETE ALL EQUIPMENT ON TTB NOT IN USE.
- 12) CONTRACTOR SHALL PROVIDE NEW LABELING THROUGHOUT SYSTEM, COORDINATED WITH ORANGE COUNTY CORRECTIONS IT DEPARTMENT, TO REFLECT CHANGES TO EXISTING SYSTEM AND NEW OUTLET TERMINATIONS.

**HEX NOTES**

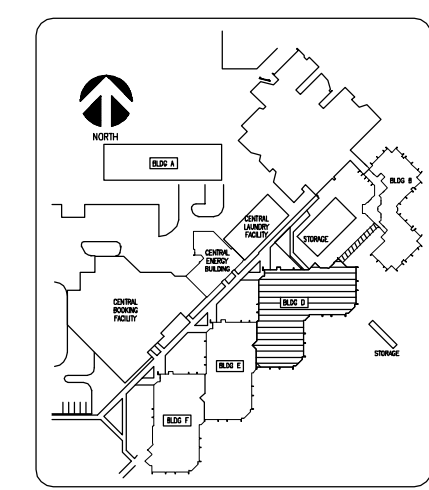
- 1) SYSTEMS TERMINAL BOARD (STB). PROVIDE WITH GRAY FLAME RETARDANT PAINT. WALL TO WALL, FLOOR TO CEILING.
- 2) 12" CABLE TRAY. PROVIDE ALL MOUNTING HARDWARE AND ACCESSORIES REQUIRED.
- 3) NEW COMMUNICATION CABINETS. PROVIDE WITH FIXED SIDES AND FRONT AND BACK HINGED PANELS. PROVIDE WITH VERTICAL WIRE MANAGEMENT. SEE SPECIFICATIONS.
- 4) SYSTEMS GROUND BAR WITH CONNECTION TO ALL SURGE SUPPRESSION EQUIPMENT AND BUILDING SERVICE GROUND. SEE DETAILS.
- 5) PROVIDE THE APPROPRIATE CONDUIT AMOUNTS AND SIZES TO CONFORM WITH THE PROJECT AS SHOWN IN THE CONTRACT DOCUMENTS. USE APPROPRIATE DETECTION EQUIPMENT PRIOR TO PENETRATING SLAB.
- 6) NOT USED
- 7) 110/66 BLOCK WITH HORIZONTAL COPPER VOICE CABLE. TRACE OUT AND IDENTIFY ALL UNUSED VOICE CABLE AND REMOVE COMPLETE. PROVIDE BLANK INSERTS IN ALL REMOVED PORTS AT DATA OUTLET SERVED. REMOVE ALL OBSOLETE 110/66 BLOCKS.
- 8) F.O. CABLE TO BE TRACED OUT AND REMOVED COMPLETE IF NOT IN USE. IF STILL IN USE RE-TERMINATE IN NEW LIU IN NEW RACK.
- 9) COPPER CABLE REMAINING TO BE RE-TERMINATED ON NEW PATCH PANEL IN NEW RACK.
- 10) 110/66 BLOCK TO BE REMOVED COMPLETE. TRACE OUT AND IDENTIFY ANY IN-USE CIRCUITS AND RE-FEED THE OUTLETS REMAINING ACTIVE FROM NEW 110 BLOCK IN COMM. ROOM. REMOVE COMPLETE ALL REMAINING CABLES/DEVICES. CONNECT AND EXTEND CONDUIT TO NEW ROOMS AND RE-FEED OUTLETS WITH NEW CABLE IF REQUIRED.
- 11) REMOVE APPROPRIATE SECTION OF EXISTING COUNTER TO ALLOW SUFFICIENT SPACE FOR THE ADDITION OF NEW COMMUNICATION CABINETS.

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 ENG. BUS. No. EB-0005096 CERT. OF AUTH. No. 5096

**ORANGE COUNTY  
 CORRECTIONS  
 COMPOUND  
 COMMUNICATIONS  
 UPGRADE**

**Revisions**

No.	Date	Description



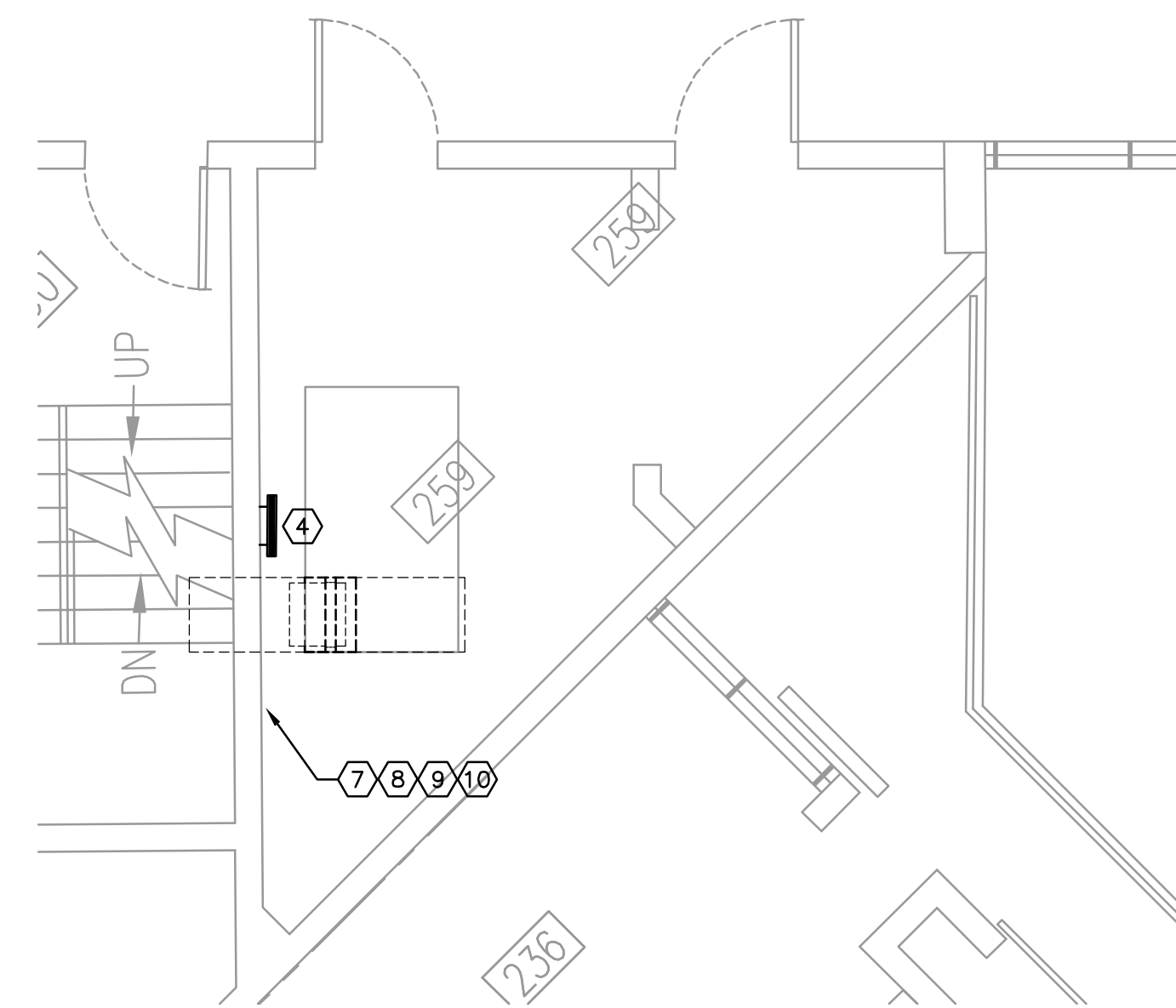
Key Plan

MPE PROJ#: 2014-040  
 Designed By: JEL/DAM  
 Drawn By: AG/JEL/DAM  
 Checked By: DAM/CT  
 Issue Date: 6/10/2014  
 Drawing Scale: 1/8" = 1'-0"

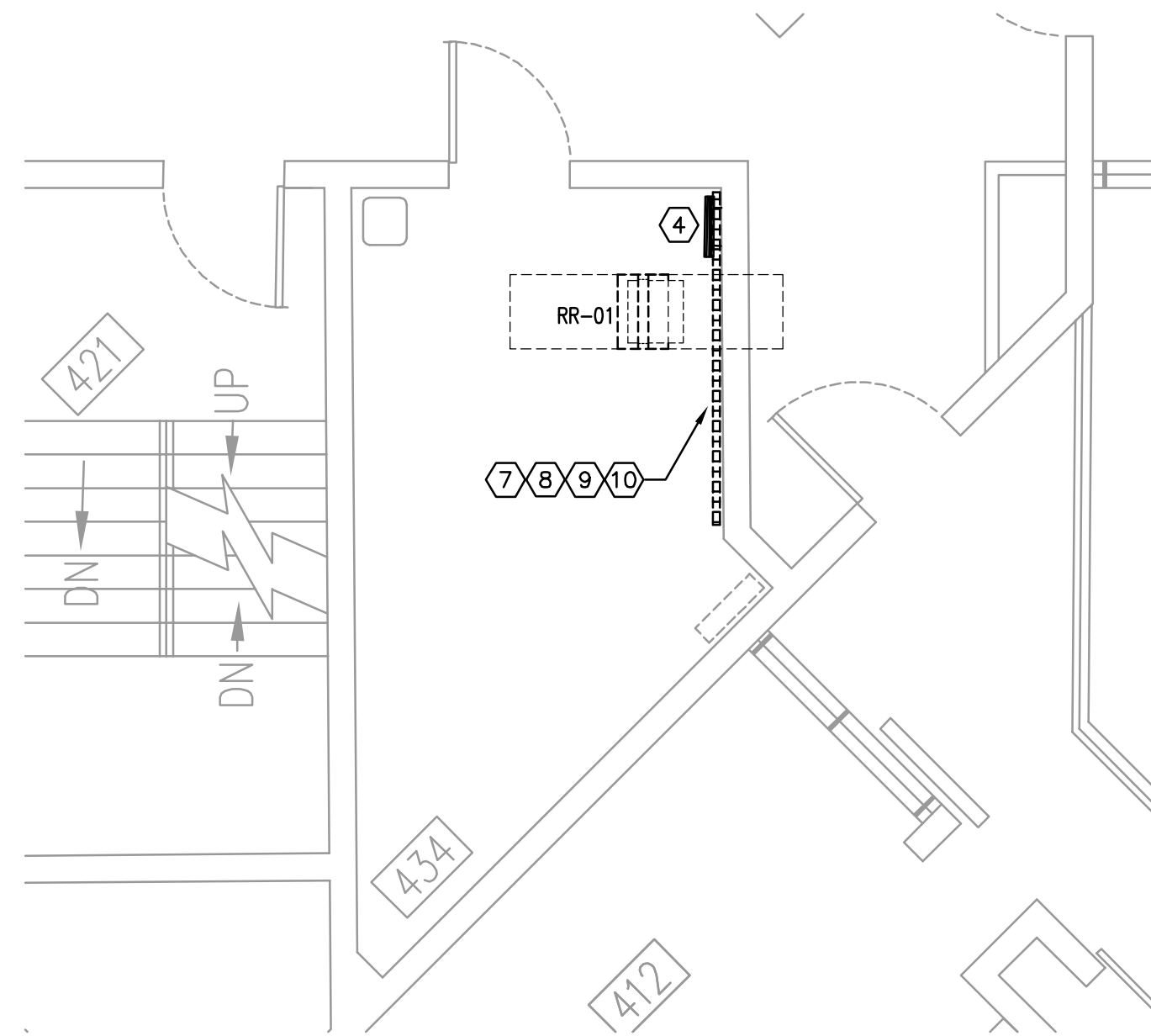
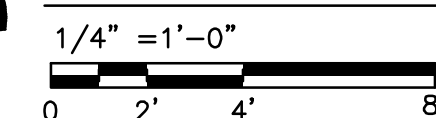
Drawing Title:  
**ENLARGED PLAN  
 BUILDING D  
 LEVEL 1 & 3  
 SYSTEMS**

**BID DOCUMENTS**  
 Drawing No.  
**E-D-401**

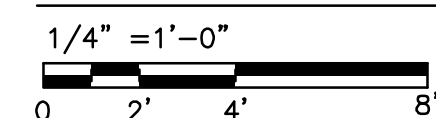
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 CREATE DATE: 3/7/2014 3:28:27 PM LAST SAVED: 6/10/2014 10:03:40 AM LAST SAVED BY: JLANDS



**ENLARGED FLOOR PLAN - ROOM 259 - RENO - SYSTEMS**



**ENLARGED FLOOR PLAN - ROOM 434 - RENO - SYSTEMS**



**GENERAL NOTES**

- 1) REFER TO GENERAL NOTES FOR THIS DISCIPLINE.
- 2) REFER TO SPECIFICATIONS.
- 3) ALL HEX NOTES NOT NECESSARILY USED ON ALL SHEETS.
- 4) EXISTING CONDUIT ROUTING IS UNKNOWN.
- 5) WHERE CONDUIT ROUTING IS SHOWN, THE CONDUITS ARE SHOWN FOR DIAGRAMMATIC PURPOSES AND ARE NOT NECESSARILY REPRESENTATIVE OF EXACT PLACEMENT.
- 6) CONTRACTOR SHALL IDENTIFY ALL EXISTING CONDUITS, JUNCTION BOXES, ETC. IN ACCORDANCE WITH CONTRACT SPECIFICATIONS.
- 7) RELOCATE/REWORK EXISTING ELECTRICAL AS REQUIRED TO FACILITATE RENOVATION.
- 8) CONTRACTOR SHALL MAINTAIN CONTINUITY TO EXISTING FIXTURES AND/OR DEVICES REMAINING.
- 8) REFER TO RACK ELEVATIONS.
- 9) COORDINATE WITH OC CORRECTIONS FACILITY I.T. FOR ALL EQUIPMENT/OUTLET DEMOLITION.
- 10) ALL F.O. CABLE SERVICE LOOPS TO BE COILED ON DESIGNATED SECTION OF TTB.
- 11) REMOVE COMPLETE ALL EQUIPMENT ON TTB NOT IN USE.
- 12) CONTRACTOR SHALL PROVIDE NEW LABELING THROUGHOUT SYSTEM, COORDINATED WITH ORANGE COUNTY CORRECTIONS IT DEPARTMENT, TO REFLECT CHANGES TO EXISTING SYSTEM AND NEW OUTLET TERMINATIONS.

**HEX NOTES**

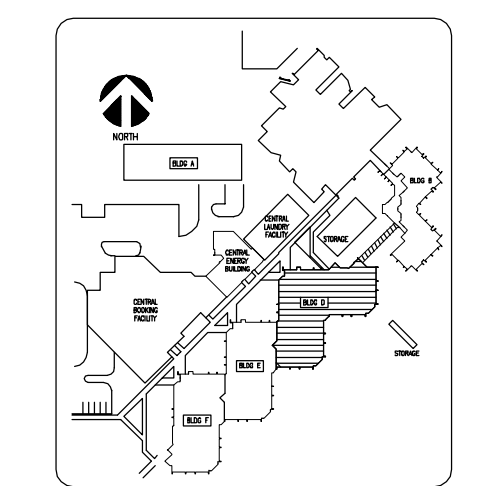
- ① SYSTEMS TERMINAL BOARD (STB). PROVIDE WITH GRAY FLAME RETARDANT PAINT. WALL TO WALL, FLOOR TO CEILING.
- ② 12" CABLE TRAY. PROVIDE ALL MOUNTING HARDWARE AND ACCESSORIES REQUIRED.
- ③ NEW 4 POST RACKS. PROVIDE WITH FIXED SIDES AND FRONT AND BACK HINGED PANELS. PROVIDE WITH VERTICAL WIRE MANAGEMENT. SEE SPECIFICATIONS.
- ④ SYSTEMS GROUND BAR WITH CONNECTION TO ALL SURGE SUPPRESSION EQUIPMENT AND BUILDING SERVICE GROUND. SEE DETAILS.
- ⑤ PROVIDE THE APPROPRIATE CONDUIT AMOUNTS AND SIZES TO CONFORM WITH THE PROJECT AS SHOWN IN THE CONTRACT DOCUMENTS. USE APPROPRIATE DETECTION EQUIPMENT PRIOR TO PENETRATING SLAB.
- ⑥ EQUIPMENT RACK/CABINET TO BE REMOVED COMPLETE. RELOCATE EXISTING EQUIPMENT REMAINING. REFER TO RACK ELEVATIONS.
- ⑦ 110/66 BLOCK WITH HORIZONTAL COPPER VOICE CABLE. TRACE OUT AND IDENTIFY ALL UNUSED VOICE CABLE AND REMOVE COMPLETE. PROVIDE BLANK INSERTS IN ALL REMOVED PORTS AT DATA OUTLET SERVED. REMOVE ALL OBSOLETE 110/66 BLOCKS.
- ⑧ F.O. CABLE TO BE TRACED OUT AND REMOVED COMPLETE IF NOT IN USE. IF STILL IN USE RE-TERMINATE IN NEW LIU IN NEW RACK.
- ⑨ COPPER CABLE REMAINING TO BE RE-TERMINATED ON NEW PATCH PANEL IN NEW RACK.
- ⑩ 110/66 BLOCK TO BE REMOVED COMPLETE. TRACE OUT AND IDENTIFY ANY IN-USE CIRCUITS AND RE-FEED THE OUTLETS REMAINING ACTIVE FROM NEW 110 BLOCK IN COMM ROOM. REMOVE COMPLETE ALL REMAINING CABLES/DEVICES. CONNECT AND EXTEND CONDUIT TO NEW ROOMS AND REFEED OUTLETS WITH NEW CABLE IF REQUIRED.


  
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**ORANGE COUNTY  
 CORRECTIONS  
 COMPOUND  
 COMMUNICATIONS  
 UPGRADE**

**Revisions**

No.	Date	Description



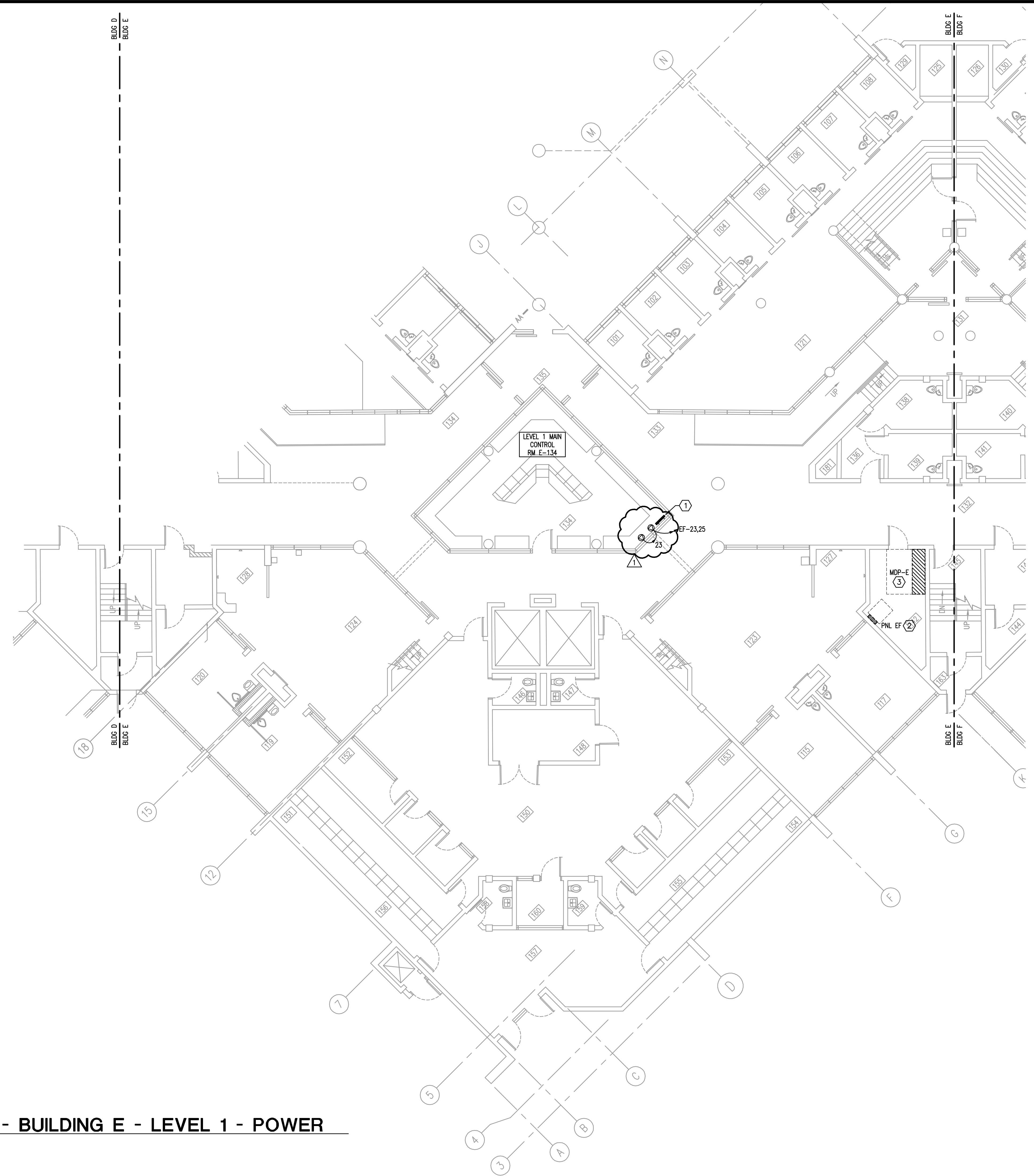
Key Plan

MPE PROJ#: 2014-040  
 Designed By: JEL/DAM  
 Drawn By: AG/JEL/DAM  
 Checked By: DAM/CT  
 Issue Date: 6/10/2014  
 Drawing Scale: 1/4"=1'-0"

Drawing Title:  
**ENLARGED PLAN  
 BUILDING D  
 LEVEL 2 & 4  
 SYSTEMS**

**BID DOCUMENTS**  
 Drawing No.  
**E-D-402**

MATERN PROFESSIONAL ENGINEERING PLOT DATE: 7/21/2014 3:29:57 PM FILENAME: I:\2014\_jobs\2014-04-00 Corrections Compound Comm Upgrade Design\CAD\2014-04-00-E-E-101.dwg  
 CREATE DATE: 3/31/2014 10:28:49 AM LAST SAVED: 7/21/2014 3:28:06 PM LAST SAVED BY: J.JANDIS



**FLOOR PLAN - BUILDING E - LEVEL 1 - POWER**  
 1/8" = 1'-0"  
 0 4' 8' 16'

- GENERAL NOTES**
- 1) REFER TO GENERAL NOTES FOR THIS DISCIPLINE.
  - 2) REFER TO SPECIFICATIONS.
  - 3) ALL HEX NOTES NOT NECESSARILY USED ON ALL SHEETS.
  - 4) EXISTING CONDUIT ROUTING IS UNKNOWN.
  - 5) WHERE CONDUIT ROUTING IS SHOWN, THE CONDUITS ARE SHOWN FOR DIAGRAMMATIC PURPOSES AND ARE NOT NECESSARILY REPRESENTATIVE OF EXACT PLACEMENT.
  - 6) CONTRACTOR SHALL IDENTIFY ALL EXISTING CONDUITS, JUNCTION BOXES, ETC. IN ACCORDANCE WITH CONTRACT SPECIFICATIONS.
  - 7) RELOCATE/REWORK EXISTING ELECTRICAL AS REQUIRED TO FACILITATE RENOVATION.
  - 8) CONTRACTOR SHALL MAINTAIN CONTINUITY TO EXISTING FIXTURES AND/OR DEVICES REMAINING.

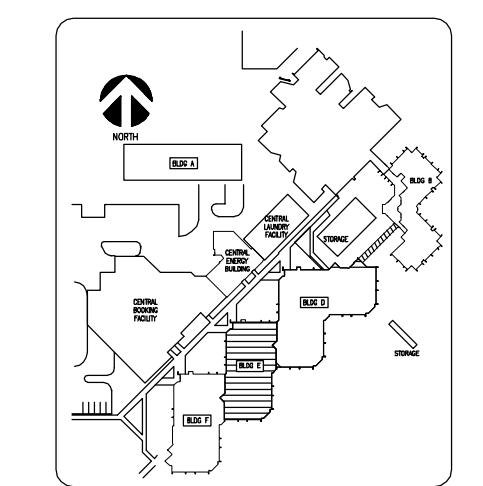
- HEX NOTES**
- ① PROVIDE NEW SYSTEMS GROUND BUS BAR. REFER TO DETAIL. PROVIDE CONDUIT AND CABLE AS INDICATED IN GROUNDING SYSTEM DETAIL AND INTERCONNECT AS SHOWN ON RISER DIAGRAM.
  - ② EXISTING PANEL TO BE REWORKED TO FACILITATE NEW CIRCUITS BEING ADDED. REFER TO PANEL SCHEDULES.
  - ③ EXISTING BUILDING MAIN SERVICE.

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 ENG. BUS. No. EB-0005096 CERT. OF AUTH. No. 5096

**ORANGE COUNTY  
 CORRECTIONS  
 COMPOUND  
 COMMUNICATIONS  
 UPGRADE**

**Revisions**

No.	Date	Description
△ 1	07.21.14	Adendum #1



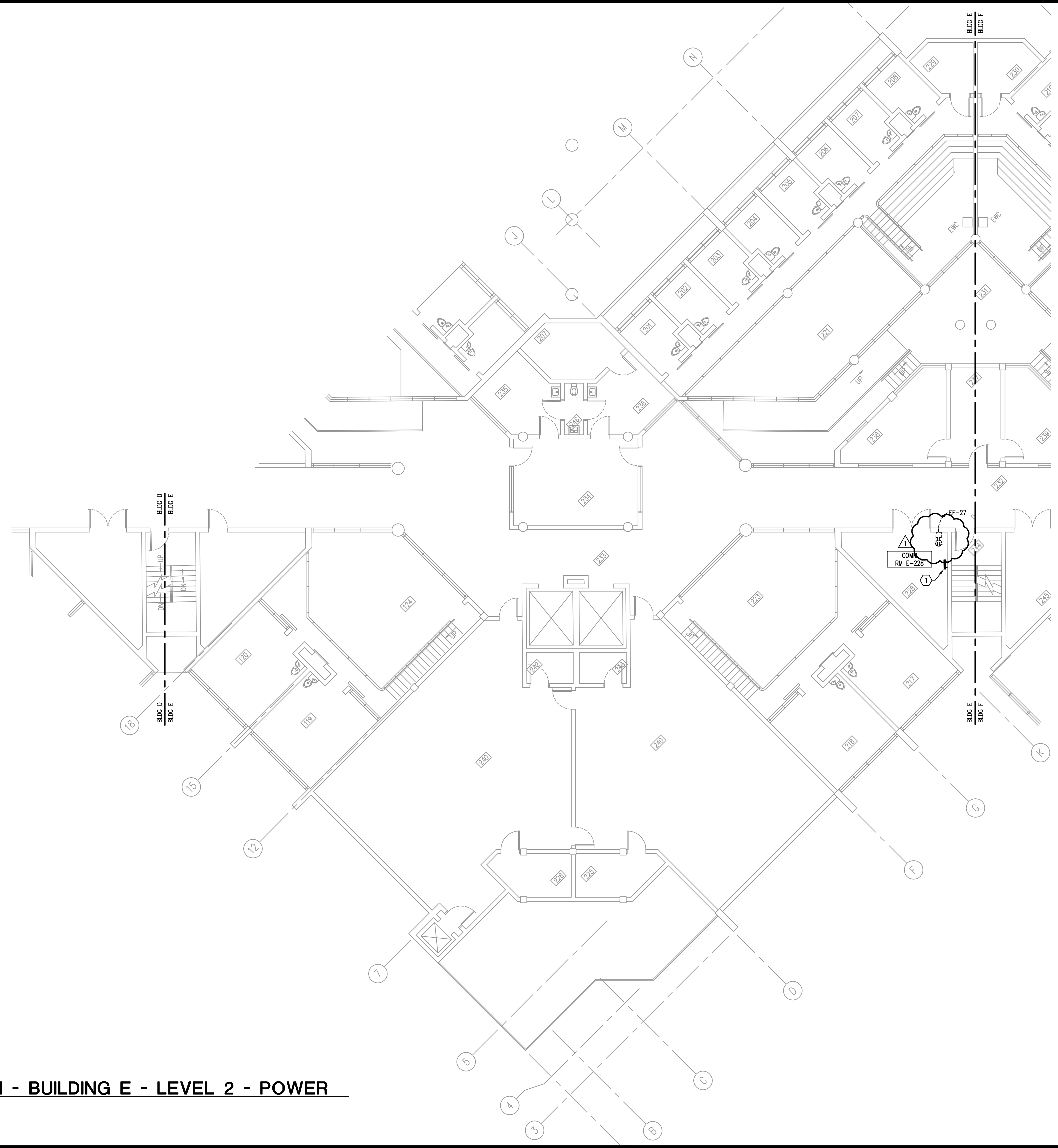
Key Plan

MPE PROJ#: 2014-040  
 Designed By: JEL/DAM  
 Drawn By: AG/JEL/DAM  
 Checked By: DAM/CT  
 Issue Date: 6/10/2014  
 Drawing Scale: 1/8" = 1'-0"

Drawing Title:  
**FLOOR PLAN  
 BUILDING E  
 LEVEL 1  
 POWER**  
**BID DOCUMENTS**  
 Drawing No.  
**E-E-101**



CREATE DATE: 3/21/2014 10:28:30 AM LAST SAVED: 7/17/2014 8:16:51 AM LAST SAVED BY: JLANDIS  
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 PLOT DATE: 7/21/2014 3:29:51 PM  
 MATERN PROFESSIONAL ENGINEERING



- GENERAL NOTES**
- 1) REFER TO GENERAL NOTES FOR THIS DISCIPLINE.
  - 2) REFER TO SPECIFICATIONS.
  - 3) ALL HEX NOTES NOT NECESSARILY USED ON ALL SHEETS.
  - 4) EXISTING CONDUIT ROUTING IS UNKNOWN.
  - 5) WHERE CONDUIT ROUTING IS SHOWN, THE CONDUITS ARE SHOWN FOR DIAGRAMMATIC PURPOSES AND ARE NOT NECESSARILY REPRESENTATIVE OF EXACT PLACEMENT.
  - 6) CONTRACTOR SHALL IDENTIFY ALL EXISTING CONDUITS, JUNCTION BOXES, ETC. IN ACCORDANCE WITH CONTRACT SPECIFICATIONS.
  - 7) RELOCATE/REWORK EXISTING ELECTRICAL AS REQUIRED TO FACILITATE RENOVATION.
  - 8) CONTRACTOR SHALL MAINTAIN CONTINUITY TO EXISTING FIXTURES AND/OR DEVICES REMAINING.

- HEX NOTES**
- 1 PROVIDE NEW SYSTEMS GROUND BUS BAR. REFER TO DETAIL. PROVIDE CONDUIT AND CABLE AS INDICATED IN GROUNDING SYSTEM DETAIL AND INTERCONNECT AS SHOWN ON RISER DIAGRAM.
  - 2 EXISTING PANEL TO BE REWORKED TO FACILITATE NEW CIRCUITS BEING ADDED. REFER TO PANEL SCHEDULES.
  - 3 EXISTING BUILDING MAIN SERVICE.

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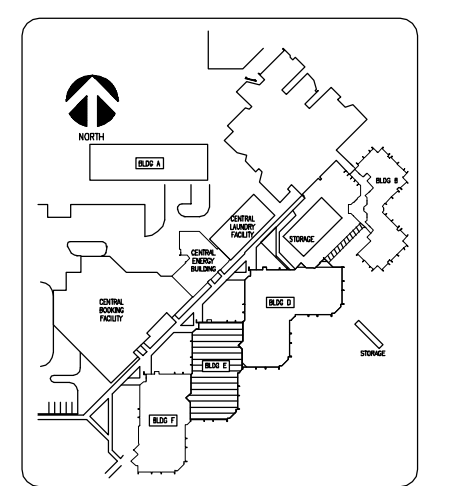
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ENG. BUS. No. EB-0005096 CERT. OF AUTH. No. 5096

**ORANGE COUNTY  
 CORRECTIONS  
 COMPOUND  
 COMMUNICATIONS  
 UPGRADE**

**Revisions**

No.	Date	Description
△	07.21.14	Adendum #1



Key Plan

MPE PROJ#: 2014-040  
 Designed By: JEL/DAM  
 Drawn By: AG/JEL/DAM  
 Checked By: DAM/CT  
 Issue Date: 6/10/2014  
 Drawing Scale: 1/8"=1'-0"

**FLOOR PLAN  
 BUILDING E  
 LEVEL 2  
 POWER**

**BID DOCUMENTS**  
 Drawing No.  
**E-E-102**

**FLOOR PLAN - BUILDING E - LEVEL 2 - POWER**

1/8"=1'-0"

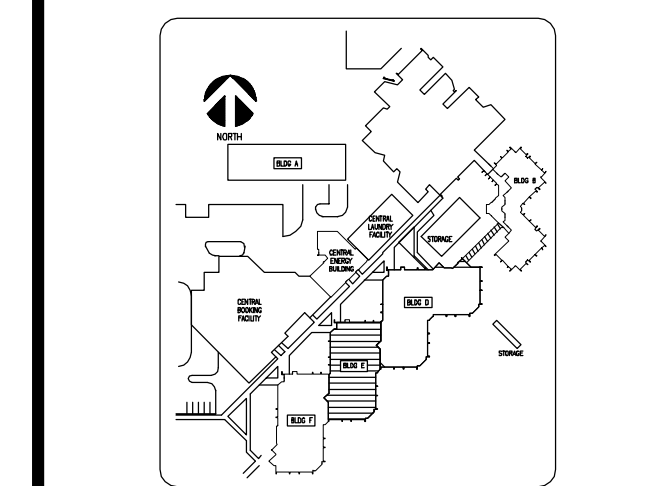
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**ORANGE COUNTY CORRECTIONS COMPOUND COMMUNICATIONS UPGRADE**

Revisions

No.	Date	Description
△	07.21.14	Adendum #1



Key Plan

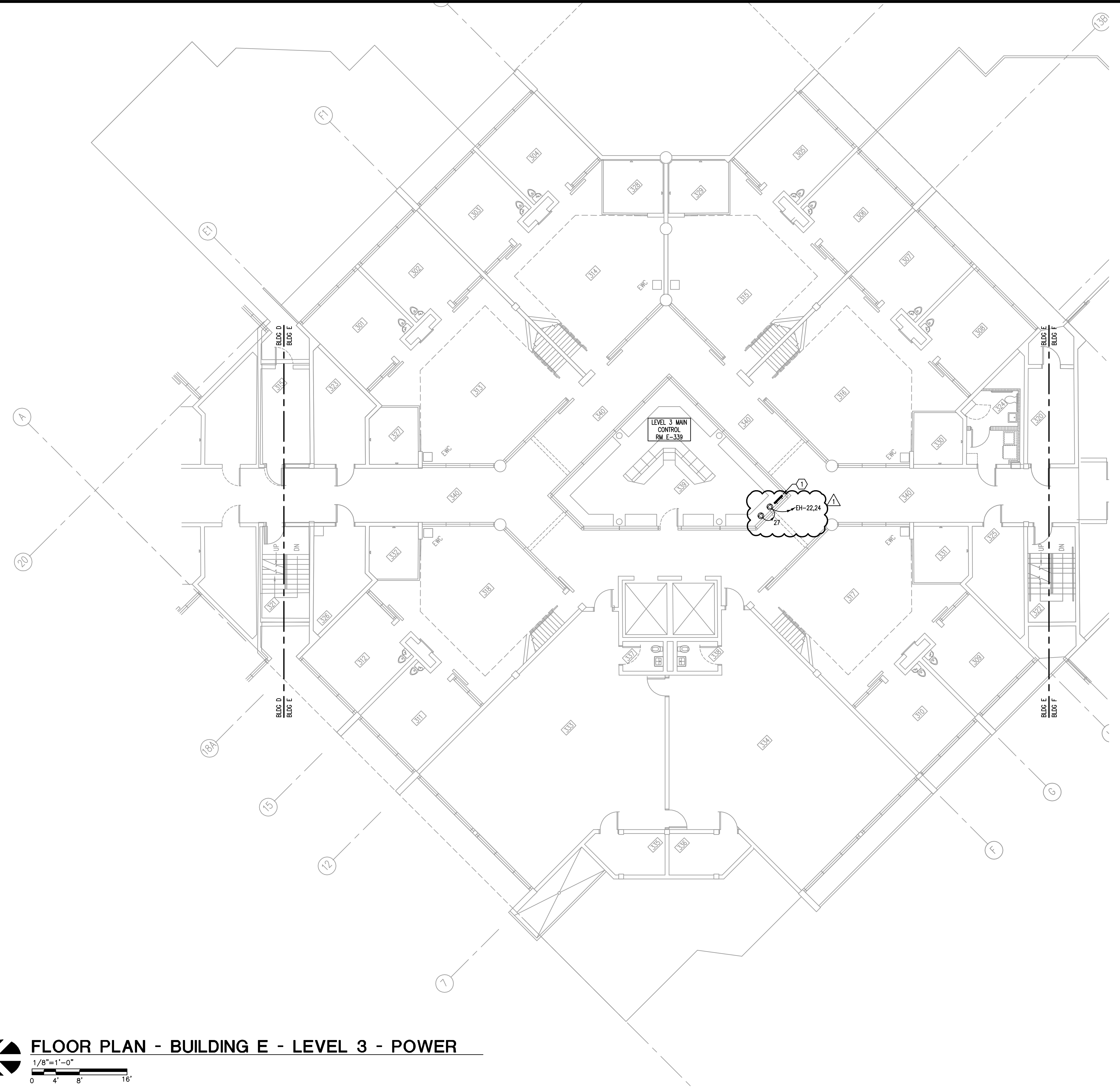
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 Designed By: JEL/DAM  
 Drawn By: AG/JEL/DAM  
 Checked By: DAM/CT  
 Issue Date: 6/10/2014  
 Drawing Scale: 1/8"=1'-0"

Drawing Title:  
**FLOOR PLAN BUILDING E LEVEL 3 POWER**

BID DOCUMENTS  
 Drawing No.  
**E-E-103**

- GENERAL NOTES**
- REFER TO GENERAL NOTES FOR THIS DISCIPLINE.
  - REFER TO SPECIFICATIONS.
  - ALL HEX NOTES NOT NECESSARILY USED ON ALL SHEETS.
  - EXISTING CONDUIT ROUTING IS UNKNOWN.
  - WHERE CONDUIT ROUTING IS SHOWN, THE CONDUITS ARE SHOWN FOR DIAGRAMMATIC PURPOSES AND ARE NOT NECESSARILY REPRESENTATIVE OF EXACT PLACEMENT.
  - CONTRACTOR SHALL IDENTIFY ALL EXISTING CONDUITS, JUNCTION BOXES, ETC. IN ACCORDANCE WITH CONTRACT SPECIFICATIONS.
  - RELOCATE/REWORK EXISTING ELECTRICAL AS REQUIRED TO FACILITATE RENOVATION.
  - CONTRACTOR SHALL MAINTAIN CONTINUITY TO EXISTING FIXTURES AND/OR DEVICES REMAINING.

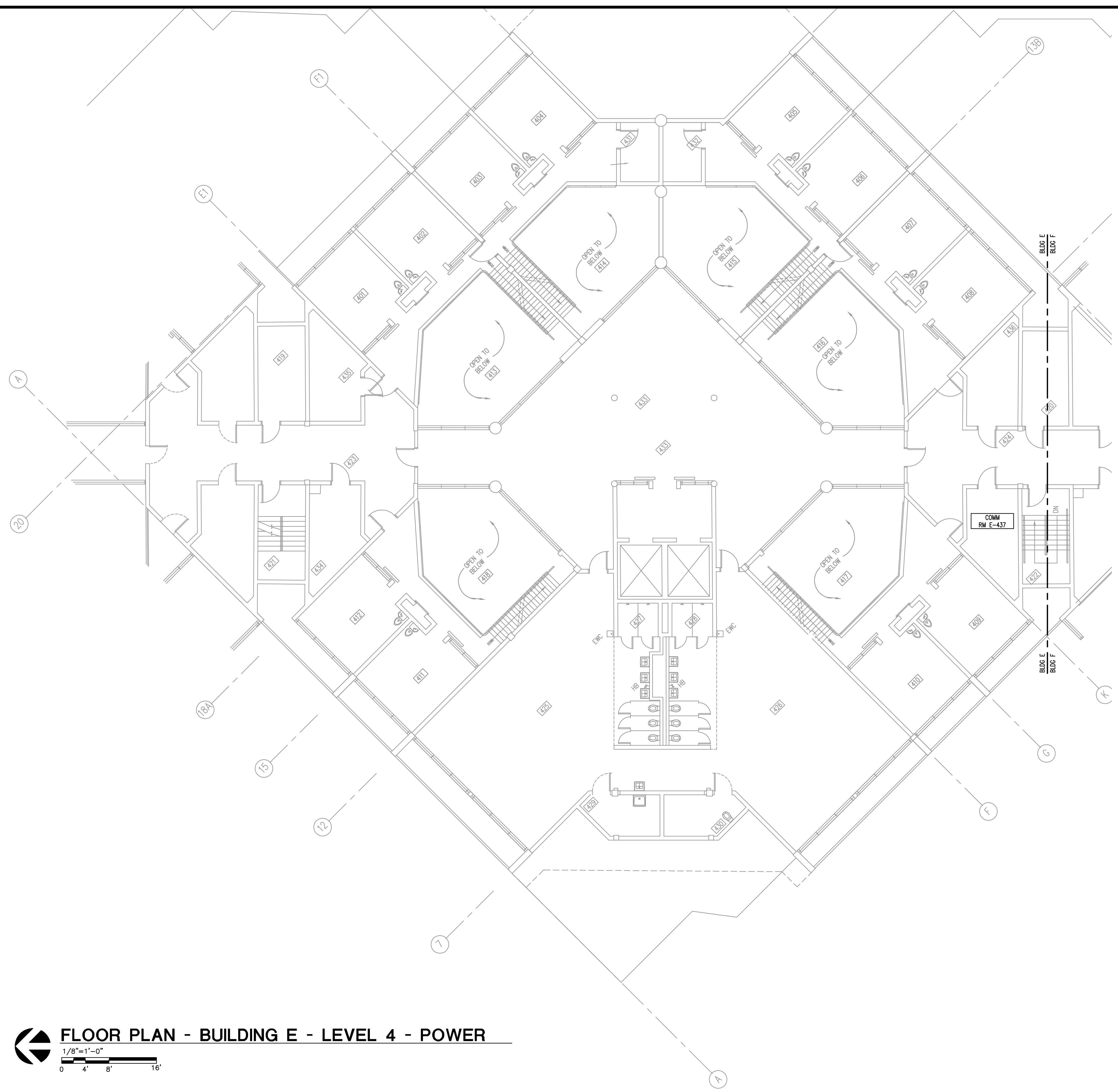
- HEX NOTES**
- PROVIDE NEW SYSTEMS GROUND BUS BAR. REFER TO DETAIL. PROVIDE CONDUIT AND CABLE AS INDICATED IN GROUNDING SYSTEM DETAIL AND INTERCONNECT AS SHOWN ON RISER DIAGRAM.
  - EXISTING PANEL TO BE REWORKED TO FACILITATE NEW CIRCUITS BEING ADDED. REFER TO PANEL SCHEDULES.
  - EXISTING BUILDING MAIN SERVICE.



**FLOOR PLAN - BUILDING E - LEVEL 3 - POWER**

1/8"=1'-0"  
 0 4' 8' 16'

MATERN PROFESSIONAL ENGINEERING PLOT DATE: 6/13/2014 8:03:04 AM FILENAME: I:\2014\_jobs\2014-04-00-Corrections Compound Comm Upgrade Design\CAD\2014-04-00-E-104.dwg  
 CREATE DATE: 3/31/2014 10:27:47 AM LAST SAVED: 6/10/2014 10:06:39 AM LAST SAVED BY: JLANDS



**FLOOR PLAN - BUILDING E - LEVEL 4 - POWER**  
 1/8" = 1'-0"  
 0 4' 8' 16'

- GENERAL NOTES**
- 1) REFER TO GENERAL NOTES FOR THIS DISCIPLINE.
  - 2) REFER TO SPECIFICATIONS.
  - 3) ALL HEX NOTES NOT NECESSARILY USED ON ALL SHEETS.
  - 4) EXISTING CONDUIT ROUTING IS UNKNOWN.
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  - 6) CONTRACTOR SHALL IDENTIFY ALL EXISTING CONDUITS, JUNCTION BOXES, ETC. IN ACCORDANCE WITH CONTRACT SPECIFICATIONS.
  - 7) RELOCATE/REWORK EXISTING ELECTRICAL AS REQUIRED TO FACILITATE RENOVATION.
  - 8) CONTRACTOR SHALL MAINTAIN CONTINUITY TO EXISTING FIXTURES AND/OR DEVICES REMAINING.

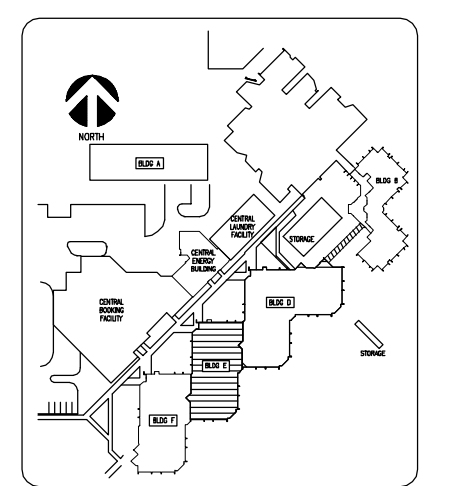
- HEX NOTES**
- ① PROVIDE NEW SYSTEMS GROUND BUS BAR. REFER TO DETAIL. PROVIDE CONDUIT AND CABLE AS INDICATED IN GROUNDING SYSTEM DETAIL AND INTERCONNECT AS SHOWN ON RISER DIAGRAM.
  - ② EXISTING PANEL TO BE REWORKED TO FACILITATE NEW CIRCUITS BEING ADDED. REFER TO PANEL SCHEDULES.
  - ③ EXISTING BUILDING MAIN SERVICE.

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**ORANGE COUNTY  
 CORRECTIONS  
 COMPOUND  
 COMMUNICATIONS  
 UPGRADE**

**Revisions**

No.	Date	Description



Key Plan

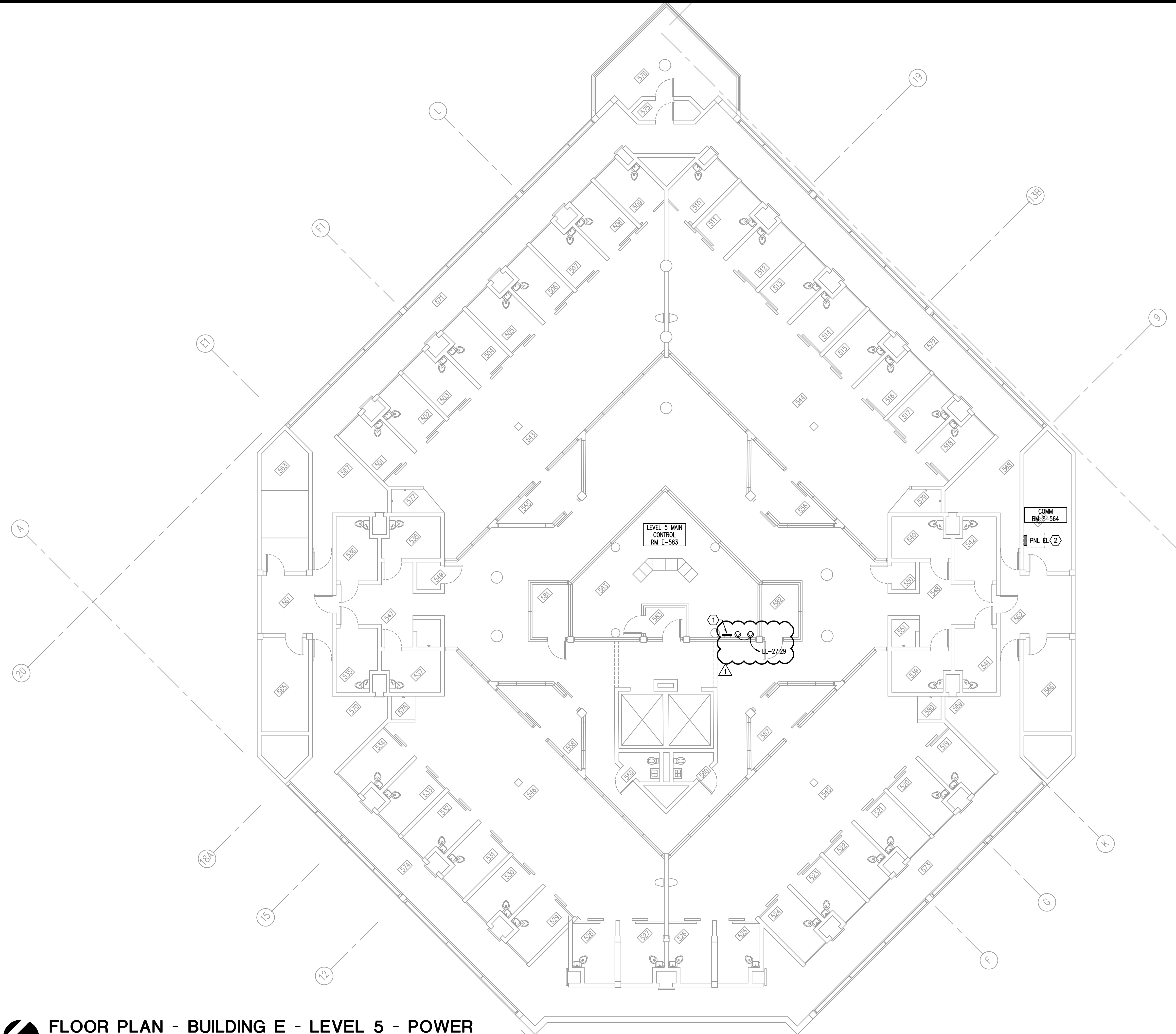
MPE PROJ#: 2014-040  
 Designed By: JEL/DAM  
 Drawn By: AG/JEL/DAM  
 Checked By: DAM/CT  
 Issue Date: 6/10/2014  
 Drawing Scale: 1/8" = 1'-0"

Drawing Title:  
**FLOOR PLAN  
 BUILDING E  
 LEVEL 4  
 POWER**

**BID DOCUMENTS**  
 Drawing No.  
**E-E-104**



MATERN PROFESSIONAL ENGINEERING PLOT DATE: 7/21/2014 3:29:36 PM FILENAME: I:\2014\_jobs\2014-04-00 Corrections Compound Comm Upgrade Design\CAD\2014-04-00-E-E-105.dwg  
 CREATE DATE: 3/31/2014 10:27:02 AM LAST SAVED: 7/21/2014 3:25:52 PM LAST SAVED BY: J.JANDIS



- GENERAL NOTES**
- REFER TO GENERAL NOTES FOR THIS DISCIPLINE.
  - REFER TO SPECIFICATIONS.
  - ALL HEX NOTES NOT NECESSARILY USED ON ALL SHEETS.
  - EXISTING CONDUIT ROUTING IS UNKNOWN.
  - WHERE CONDUIT ROUTING IS SHOWN, THE CONDUITS ARE SHOWN FOR DIAGRAMMATIC PURPOSES AND ARE NOT NECESSARILY REPRESENTATIVE OF EXACT PLACEMENT.
  - CONTRACTOR SHALL IDENTIFY ALL EXISTING CONDUITS, JUNCTION BOXES, ETC. IN ACCORDANCE WITH CONTRACT SPECIFICATIONS.
  - RELOCATE/REWORK EXISTING ELECTRICAL AS REQUIRED TO FACILITATE RENOVATION.
  - CONTRACTOR SHALL MAINTAIN CONTINUITY TO EXISTING FIXTURES AND/OR DEVICES REMAINING.

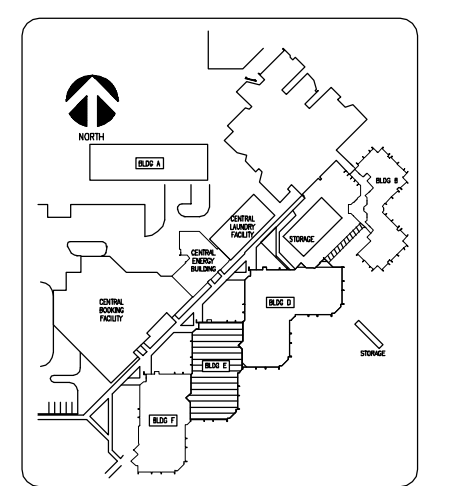
- HEX NOTES**
- PROVIDE NEW SYSTEMS GROUND BUS BAR. REFER TO DETAIL. PROVIDE CONDUIT AND CABLE AS INDICATED IN GROUNDING SYSTEM DETAIL AND INTERCONNECT AS SHOWN ON RISER DIAGRAM.
  - EXISTING PANEL TO BE REWORKED TO FACILITATE NEW CIRCUITS BEING ADDED. REFER TO PANEL SCHEDULES.
  - EXISTING BUILDING MAIN SERVICE.

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 ENG. BUS. NO. EB-0005096 CERT. OF AUTH. NO. 5096

**ORANGE COUNTY CORRECTIONS COMPOUND COMMUNICATIONS UPGRADE**

**Revisions**

No.	Date	Description
1	07.21.14	Adendum #1



Key Plan

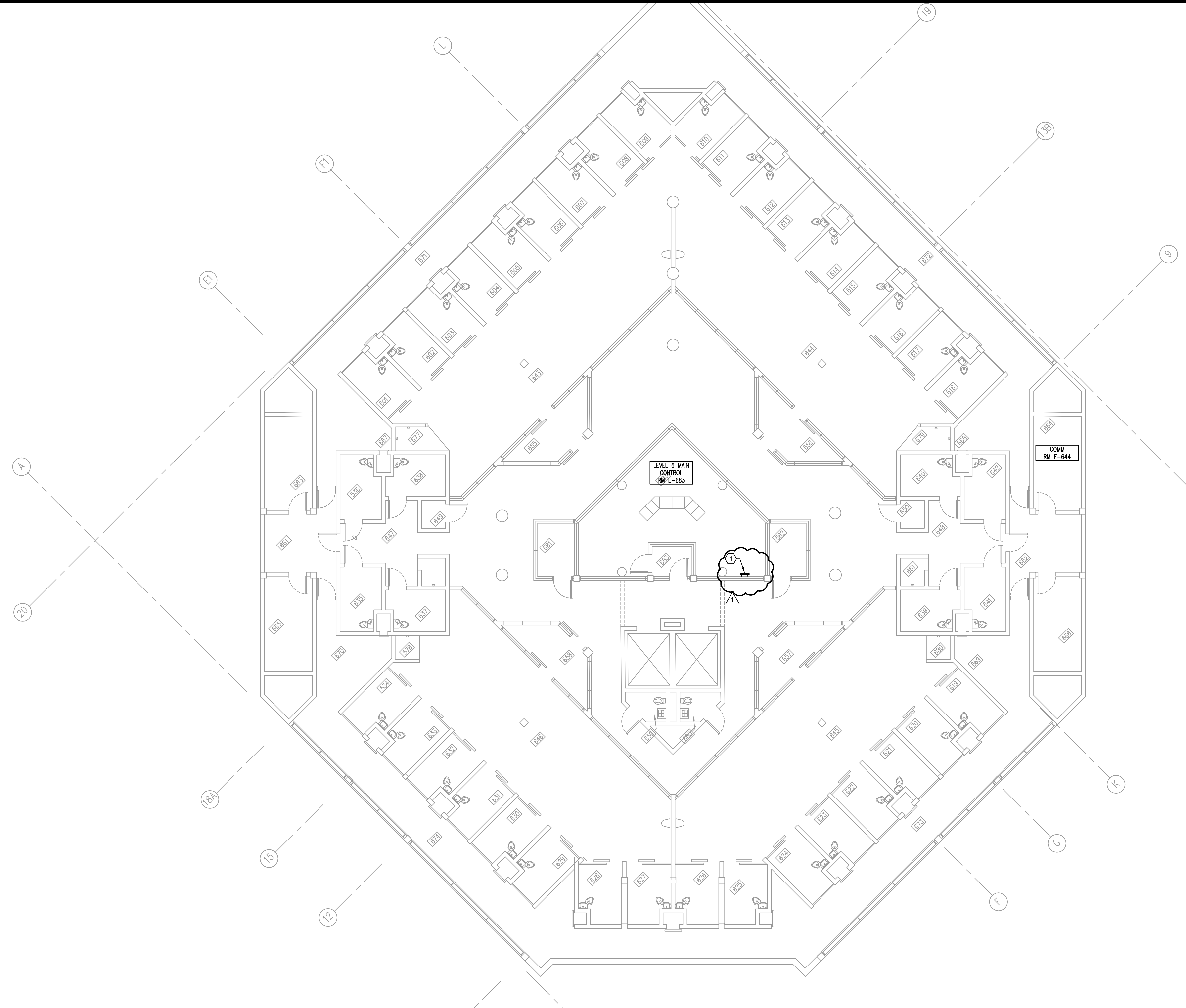
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 Designed By: JEL/DAM  
 Drawn By: AG/JEL/DAM  
 Checked By: DAM/CT  
 Issue Date: 6/10/2014  
 Drawing Scale: 1/8"=1'-0"

**FLOOR PLAN BUILDING E LEVEL 5 POWER**

**BID DOCUMENTS**  
 Drawing No.  
**E-E-105**

**FLOOR PLAN - BUILDING E - LEVEL 5 - POWER**  
 1/8"=1'-0"  
 0 4 8 16'

MATERN PROFESSIONAL ENGINEERING PLOT DATE: 7/21/2014 3:29:30 PM FILENAME: I:\2014\_jobs\2014-04-00-Corrections Compound Comm Upgrade Design\CAD\2014-04-00-E-106.dwg  
 CREATE DATE: 3/31/2014 10:25:18 AM LAST SAVED: 7/21/2014 3:28:44 PM LAST SAVED BY: J.JANDIS



**FLOOR PLAN - BUILDING E - LEVEL 6 - POWER**  
 1/8" = 1'-0"  
 0 4' 8' 16'

- GENERAL NOTES**
- 1) REFER TO GENERAL NOTES FOR THIS DISCIPLINE.
  - 2) REFER TO SPECIFICATIONS.
  - 3) ALL HEX NOTES NOT NECESSARILY USED ON ALL SHEETS.
  - 4) EXISTING CONDUIT ROUTING IS UNKNOWN.
  - 5) WHERE CONDUIT ROUTING IS SHOWN, THE CONDUITS ARE SHOWN FOR DIAGRAMMATIC PURPOSES AND ARE NOT NECESSARILY REPRESENTATIVE OF EXACT PLACEMENT.
  - 6) CONTRACTOR SHALL IDENTIFY ALL EXISTING CONDUITS, JUNCTION BOXES, ETC. IN ACCORDANCE WITH CONTRACT SPECIFICATIONS.
  - 7) RELOCATE/REWORK EXISTING ELECTRICAL AS REQUIRED TO FACILITATE RENOVATION.
  - 8) CONTRACTOR SHALL MAINTAIN CONTINUITY TO EXISTING FIXTURES AND/OR DEVICES REMAINING.

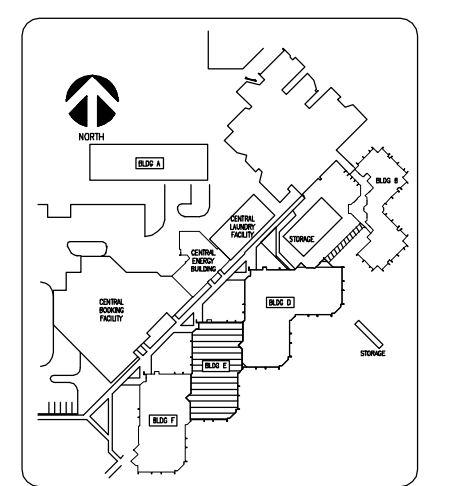
- HEX NOTES**
- ① PROVIDE NEW SYSTEMS GROUND BUS BAR. REFER TO DETAIL. PROVIDE CONDUIT AND CABLE AS INDICATED IN GROUNDING SYSTEM DETAIL AND INTERCONNECT AS SHOWN ON RISER DIAGRAM.
  - ② EXISTING PANEL TO BE REWORKED TO FACILITATE NEW CIRCUITS BEING ADDED. REFER TO PANEL SCHEDULES.
  - ③ EXISTING BUILDING MAIN SERVICE.

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 PHONE (407) 740-5020 FAX (407) 740-0395  
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 ENG. BUS. NO. EB-0005096 CERT. OF AUTH. NO. 5096

**ORANGE COUNTY  
 CORRECTIONS  
 COMPOUND  
 COMMUNICATIONS  
 UPGRADE**

**Revisions**

No.	Date	Description
△	07.21.14	Adendum #1



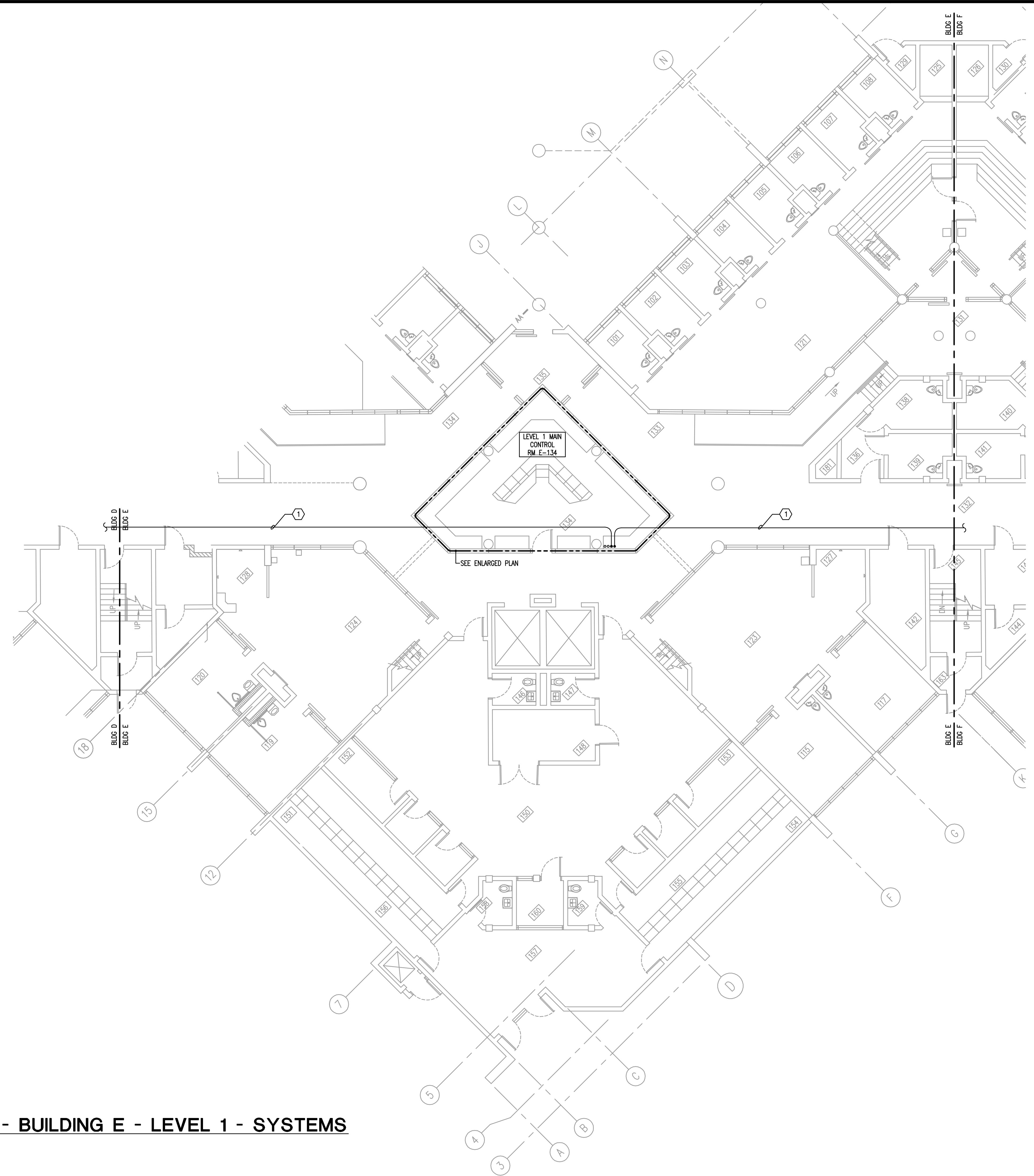
Key Plan

MPE PROJ#: 2014-040  
 Designed By: JEL/DAM  
 Drawn By: AG/JEL/DAM  
 Checked By: DAM/CT  
 Issue Date: 6/10/2014  
 Drawing Scale: 1/8" = 1'-0"

**Drawing Title:**  
**FLOOR PLAN  
 BUILDING E  
 LEVEL 6  
 POWER**

**BID DOCUMENTS**  
 Drawing No.  
**E-E-106**

MATERN PROFESSIONAL ENGINEERING PLOT DATE: 6/13/2014 8:03:15 AM FILENAME: I:\2014\_jobs\2014-04-OC Corrections Compound Comm Upgrade Design\CAD\2014-04-04-E-E-301.dwg  
 CREATE DATE: 2/26/2014 4:16:44 PM LAST SAVED: 6/10/2014 10:06:26 AM LAST SAVED BY: JLANDIS



- GENERAL NOTES**
- 1) REFER TO GENERAL NOTES FOR THIS DISCIPLINE.
  - 2) REFER TO SPECIFICATIONS.
  - 3) ALL HEX NOTES NOT NECESSARILY USED ON ALL SHEETS.
  - 4) EXISTING CONDUIT ROUTING IS UNKNOWN.
  - 5) WHERE CONDUIT ROUTING IS SHOWN, THE CONDUITS ARE SHOWN FOR DIAGRAMMATIC PURPOSES AND ARE NOT NECESSARILY REPRESENTATIVE OF EXACT PLACEMENT.
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  - 8) CONTRACTOR SHALL MAINTAIN CONTINUITY TO EXISTING FIXTURES AND/OR DEVICES REMAINING.
  - 8) REFER TO RACK ELEVATIONS.
  - 9) COORDINATE WITH OC CORRECTIONS FACILITY I.T. FOR ALL EQUIPMENT/OUTLET DEMOLITION.
  - 10) ALL F.O. CABLE SERVICE LOOPS TO BE COILED ON DESIGNATED SECTION OF TTB.
  - 11) REMOVE COMPLETE ALL EQUIPMENT ON TTB NOT IN USE.

**HEX NOTES**

① NEW CONDUIT, ABOVE FIXED CEILING. REFER TO SYSTEMS RISER.

---

**Key Plan**

MPE PROJ#: 2014-040  
 Designed By: JEL/DAM  
 Drawn By: AG/JEL/DAM  
 Checked By: DAM/CT  
 Issue Date: 6/10/2014  
 Drawing Scale: 1/8"=1'-0"  
 Drawing Title:  
**FLOOR PLAN  
 BUILDING E  
 LEVEL 1  
 SYSTEMS**  
**BID DOCUMENTS**  
 Drawing No.  
**E-E-301**

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**ORANGE COUNTY  
 CORRECTIONS  
 COMPOUND  
 COMMUNICATIONS  
 UPGRADE**

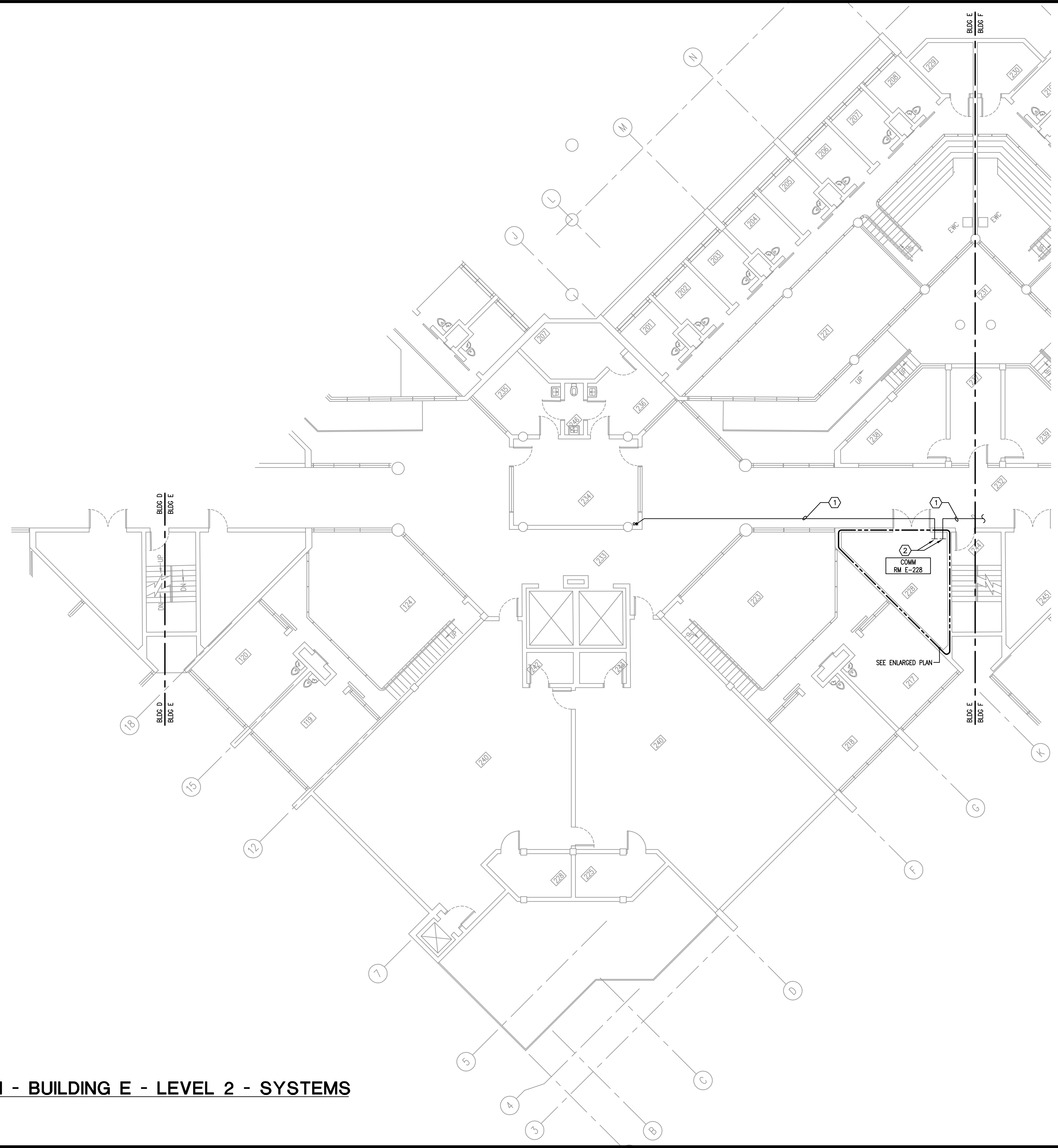
**Revisions**

No.	Date	Description

**FLOOR PLAN - BUILDING E - LEVEL 1 - SYSTEMS**  
 1/8"=1'-0"  
 0 4' 8' 16'



MTERN PROFESSIONAL ENGINEERING PLOT DATE: 6/13/2014 8:03:18 AM FILENAME: I:\2014\_jobs\2014-04-OC Corrections Compound Comm Upgrade Design\CAD\2014-04-E-E-302.dwg  
 CREATE DATE: 2/26/2014 4:16:44 PM LAST SAVED: 6/10/2014 10:06:22 AM LAST SAVED BY: JLANDS



- GENERAL NOTES**
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  - 8) CONTRACTOR SHALL MAINTAIN CONTINUITY TO EXISTING FIXTURES AND/OR DEVICES REMAINING.
  - 8) REFER TO RACK ELEVATIONS.
  - 9) COORDINATE WITH OC CORRECTIONS FACILITY I.T. FOR ALL EQUIPMENT/OUTLET DEMOLITION.
  - 10) ALL F.O. CABLE SERVICE LOOPS TO BE COILED ON DESIGNATED SECTION OF TT8.
  - 11) REMOVE COMPLETE ALL EQUIPMENT ON TT8 NOT IN USE.

**HEX NOTES**

- ① NEW CONDUIT, ABOVE FIXED CEILING. REFER TO SYSTEMS RISER.
- ② TERMINATE WITH BUSHING AT OVERHEAD CABLETRAY.

Key Plan

MPE PROJ#: 2014-040

Designed By: JEL/DAM

Drawn By: AG/JEL/DAM

Checked By: DAM/CT

Issue Date: 6/10/2014

Drawing Scale: 1/8"=1'-0"

Drawing Title:

**FLOOR PLAN  
BUILDING E  
LEVEL 2  
SYSTEMS**

**BID DOCUMENTS**

Drawing No.

**E-E-302**

**MTERN PROFESSIONAL ENGINEERING**  
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 ENG. BUS. No. EB-0005096 CERT. OF AUTH. No. 5096

**ORANGE COUNTY  
CORRECTIONS  
COMPOUND  
COMMUNICATIONS  
UPGRADE**

---

Revisions

No.	Date	Description

**FLOOR PLAN - BUILDING E - LEVEL 2 - SYSTEMS**  
 1/8"=1'-0"  
 0 4' 8' 16'

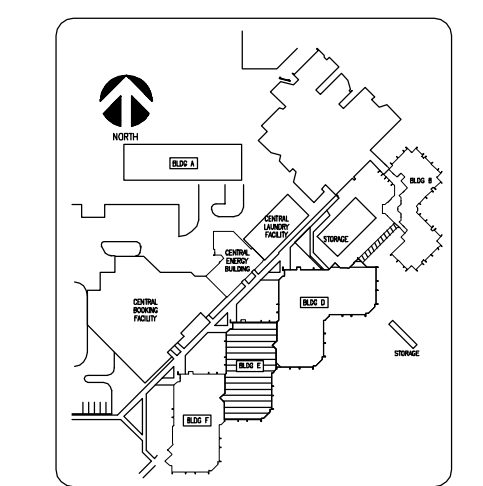
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 CREATE DATE: 2/28/2014 4:05:29 PM LAST SAVED: 6/10/2014 10:06:18 AM LAST SAVED BY: JLANDIS

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**ORANGE COUNTY  
 CORRECTIONS  
 COMPOUND  
 COMMUNICATIONS  
 UPGRADE**

**Revisions**

No.	Date	Description



Key Plan

MPE PROJ#: 2014-040  
 Designed By: JEL/DAM  
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 Checked By: DAM/TC  
 Issue Date: 6/10/2014  
 Drawing Scale: 1/8"=1'-0"

**FLOOR PLAN  
 BUILDING E  
 LEVEL 3  
 SYSTEMS**

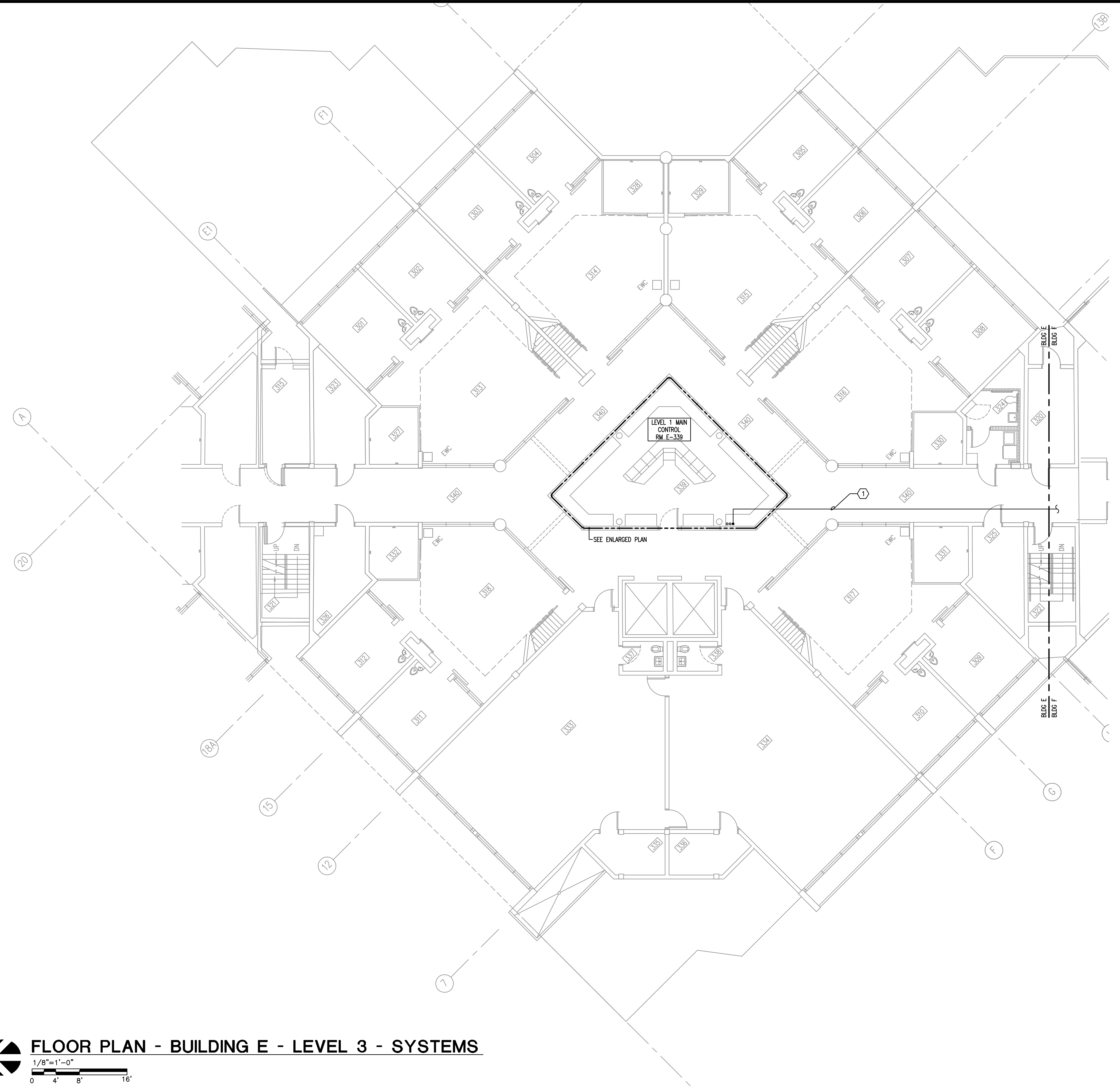
**BID DOCUMENTS**

Drawing No.  
**E-E-303**

- GENERAL NOTES**
- REFER TO GENERAL NOTES FOR THIS DISCIPLINE.
  - REFER TO SPECIFICATIONS.
  - ALL HEX NOTES NOT NECESSARILY USED ON ALL SHEETS.
  - EXISTING CONDUIT ROUTING IS UNKNOWN.
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  - CONTRACTOR SHALL IDENTIFY ALL EXISTING CONDUITS, JUNCTION BOXES, ETC. IN ACCORDANCE WITH CONTRACT SPECIFICATIONS.
  - RELOCATE/REWORK EXISTING ELECTRICAL AS REQUIRED TO FACILITATE RENOVATION.
  - CONTRACTOR SHALL MAINTAIN CONTINUITY TO EXISTING FIXTURES AND/OR DEVICES REMAINING.
  - REFER TO RACK ELEVATIONS.
  - COORDINATE WITH OC CORRECTIONS FACILITY I.T. FOR ALL EQUIPMENT/OUTLET DEMOLITION.
  - ALL F.O. CABLE SERVICE LOOPS TO BE COILED ON DESIGNATED SECTION OF TTB.
  - REMOVE COMPLETE ALL EQUIPMENT ON TTB NOT IN USE.

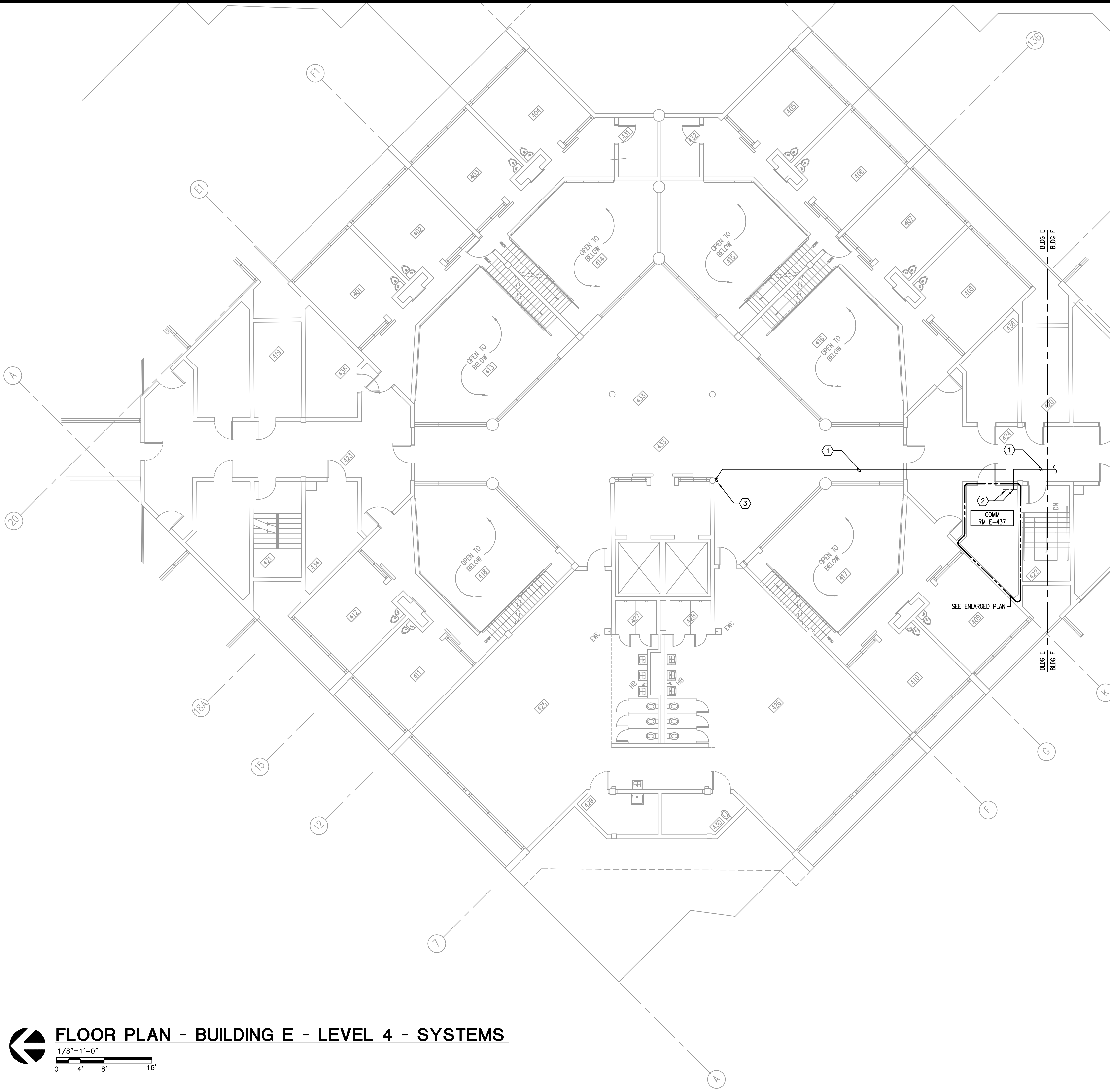
**HEX NOTES**

- NEW CONDUIT, ABOVE FIXED CEILING. REFER TO SYSTEMS RISER.



**FLOOR PLAN - BUILDING E - LEVEL 3 - SYSTEMS**  
 1/8"=1'-0"  
 0 4' 8' 16'

CREATE DATE: 2/26/2014 4:16:44 PM LAST SAVED: 6/10/2014 10:06:14 AM LAST SAVED BY: JLANDS  
 FILENAME: I:\2014\_jobs\2014-OC Corrections Compound Comm Upgrade Design\CAD\2014-040-E-E-304.dwg  
 PLOT DATE: 6/13/2014 8:03:28 AM  
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- GENERAL NOTES**
- 1) REFER TO GENERAL NOTES FOR THIS DISCIPLINE.
  - 2) REFER TO SPECIFICATIONS.
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  - 11) REMOVE COMPLETE ALL EQUIPMENT ON TTB NOT IN USE.

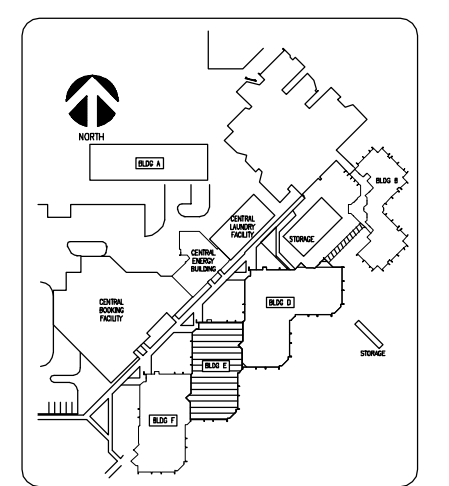
- HEX NOTES**
- ① NEW CONDUIT, ABOVE FIXED CEILING. REFER TO SYSTEMS RISER.
  - ② TERMINATE WITH BUSHING AT OVERHEAD CABLETRAY.
  - ③ CONDUIT ROUNDED UP COLUMN. PROVIDE PROTECTION. REFER TO COLUMN CONDUIT DETAILS. PROVIDE THE APPROPRIATE CONDUIT AMOUNTS AND SIZES TO CONFORM WITH THE PROJECT AS SHOWN IN THE CONTRACT DOCUMENTS. USE APPROPRIATE DETECTION EQUIPMENT PRIOR TO PENETRATING SLAB.

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 ENG. BUS. No. EB-0005096 CERT. OF AUTH. No. 5096

**ORANGE COUNTY CORRECTIONS COMPOUND COMMUNICATIONS UPGRADE**

**Revisions**

No.	Date	Description



Key Plan

MPE PROJ#: 2014-040  
 Designed By: JEL/DAM  
 Drawn By: AG/JEL/DAM  
 Checked By: DAM/CT  
 Issue Date: 6/10/2014  
 Drawing Scale: 1/8"=1'-0"

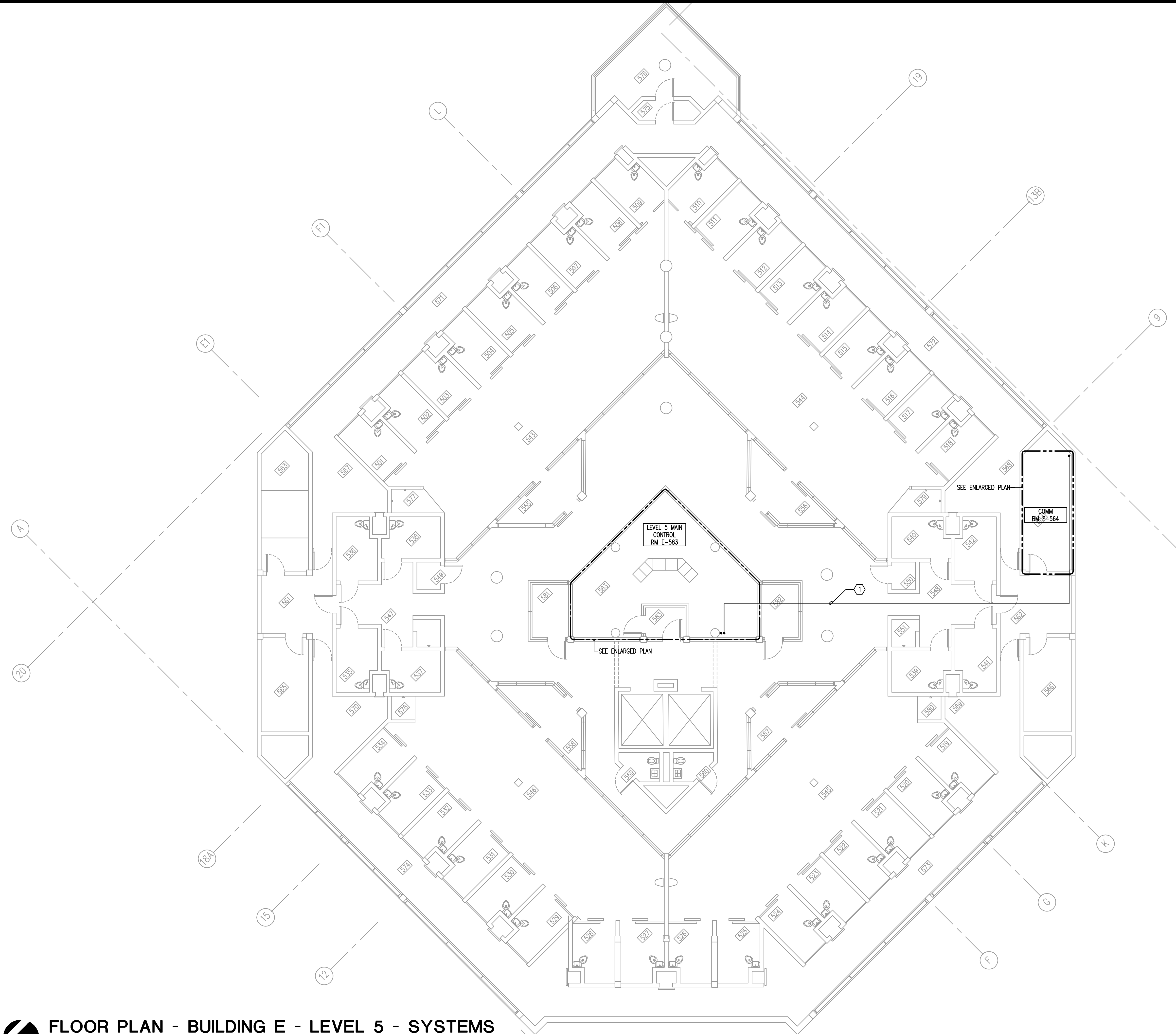
**FLOOR PLAN BUILDING E LEVEL 4 SYSTEMS**

**BID DOCUMENTS**  
 Drawing No.  
**E-E-304**

**FLOOR PLAN - BUILDING E - LEVEL 4 - SYSTEMS**  
 1/8"=1'-0"  
 0 4' 8' 16'



MATERN PROFESSIONAL ENGINEERING PLOT DATE: 6/13/2014 8:03:29 AM FILENAME: I:\2014\_jobs\2014-04-OC Corrections Compound Comm Upgrade Design\DAO\2014-04-E-305.dwg  
 CREATE DATE: 2/28/2014 4:10:55 PM LAST SAVED: 6/10/2014 10:06:09 AM LAST SAVED BY: JLANDIS



- GENERAL NOTES**
- 1) REFER TO GENERAL NOTES FOR THIS DISCIPLINE.
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  - 11) REMOVE COMPLETE ALL EQUIPMENT ON TTB NOT IN USE.

**HEX NOTES**

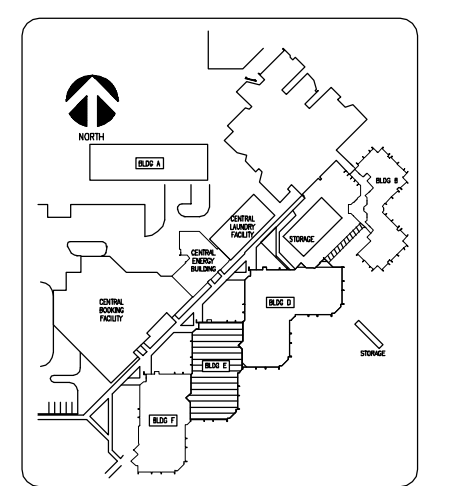
① NEW CONDUIT, ABOVE FIXED CEILING. REFER TO SYSTEMS RISER.

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 ENG. BUS. No. EB-0005096 CERT. OF AUTH. No. 5096

**ORANGE COUNTY CORRECTIONS COMPOUND COMMUNICATIONS UPGRADE**

**Revisions**

No.	Date	Description



Key Plan

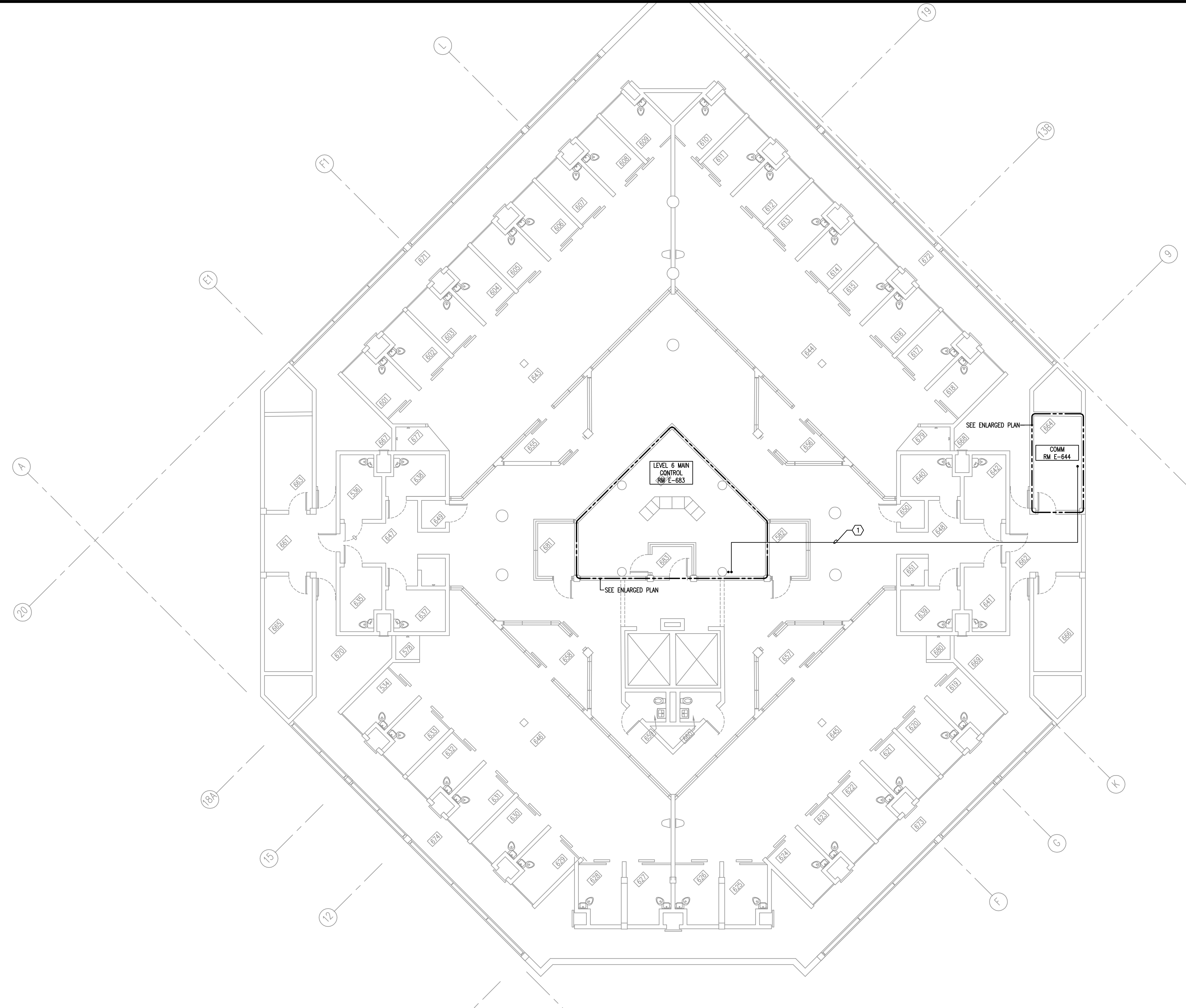
MPE PROJ#: 2014-040  
 Designed By: JEL/DAM  
 Drawn By: AG/JEL/DAM  
 Checked By: DAM/CT  
 Issue Date: 6/10/2014  
 Drawing Scale: 1/8"=1'-0"

**FLOOR PLAN BUILDING E LEVEL 5 SYSTEMS**

**BID DOCUMENTS**  
 Drawing No.  
**E-E-305**

**FLOOR PLAN - BUILDING E - LEVEL 5 - SYSTEMS**  
 1/8"=1'-0"  
 0 4 8 16'

MATERN PROFESSIONAL ENGINEERING PLOT DATE: 6/13/2014 8:03:33 AM FILENAME: I:\2014\_jobs\2014-04-OC Corrections Compound Comm Upgrade Design\CAD\2014-04-E-306.dwg  
 CREATE DATE: 2/26/2014 4:16:44 PM LAST SAVED: 6/10/2014 10:06:05 AM LAST SAVED BY: JLANDS



- GENERAL NOTES**
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**HEX NOTES**

① NEW CONDUIT, ABOVE FIXED CEILING. REFER TO SYSTEMS RISER.

---

**Revisions**

No.	Date	Description

---

**Key Plan**

---

MPE PROJ#: 2014-040

Designed By: JEL/DAM

Drawn By: AG/JEL/DAM

Checked By: DAM/CT

Issue Date: 6/10/2014

Drawing Scale: 1/8"=1'-0"

Drawing Title:

**FLOOR PLAN  
BUILDING E  
LEVEL 6  
SYSTEMS**

---

**BID DOCUMENTS**

Drawing No.

**E-E-306**

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 ENG. BUS. No. EB-0005096 CERT. OF AUTH. No. 5096

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**ORANGE COUNTY  
CORRECTIONS  
COMPOUND  
COMMUNICATIONS  
UPGRADE**

---

**Revisions**

No.	Date	Description

---

**Key Plan**

---

MPE PROJ#: 2014-040

Designed By: JEL/DAM

Drawn By: AG/JEL/DAM

Checked By: DAM/CT

Issue Date: 6/10/2014

Drawing Scale: 1/8"=1'-0"

Drawing Title:

**FLOOR PLAN  
BUILDING E  
LEVEL 6  
SYSTEMS**

---

**BID DOCUMENTS**

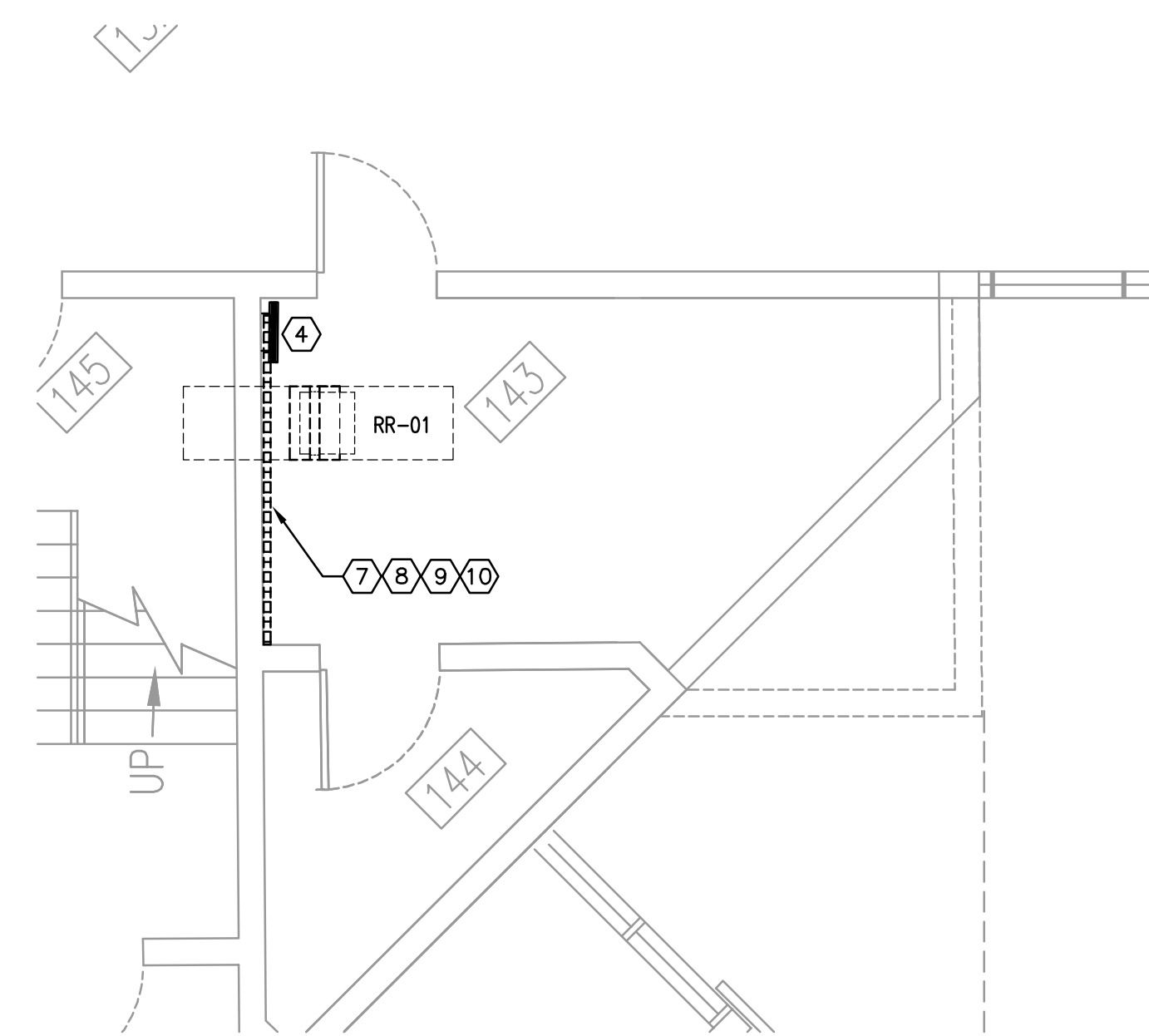
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**E-E-306**

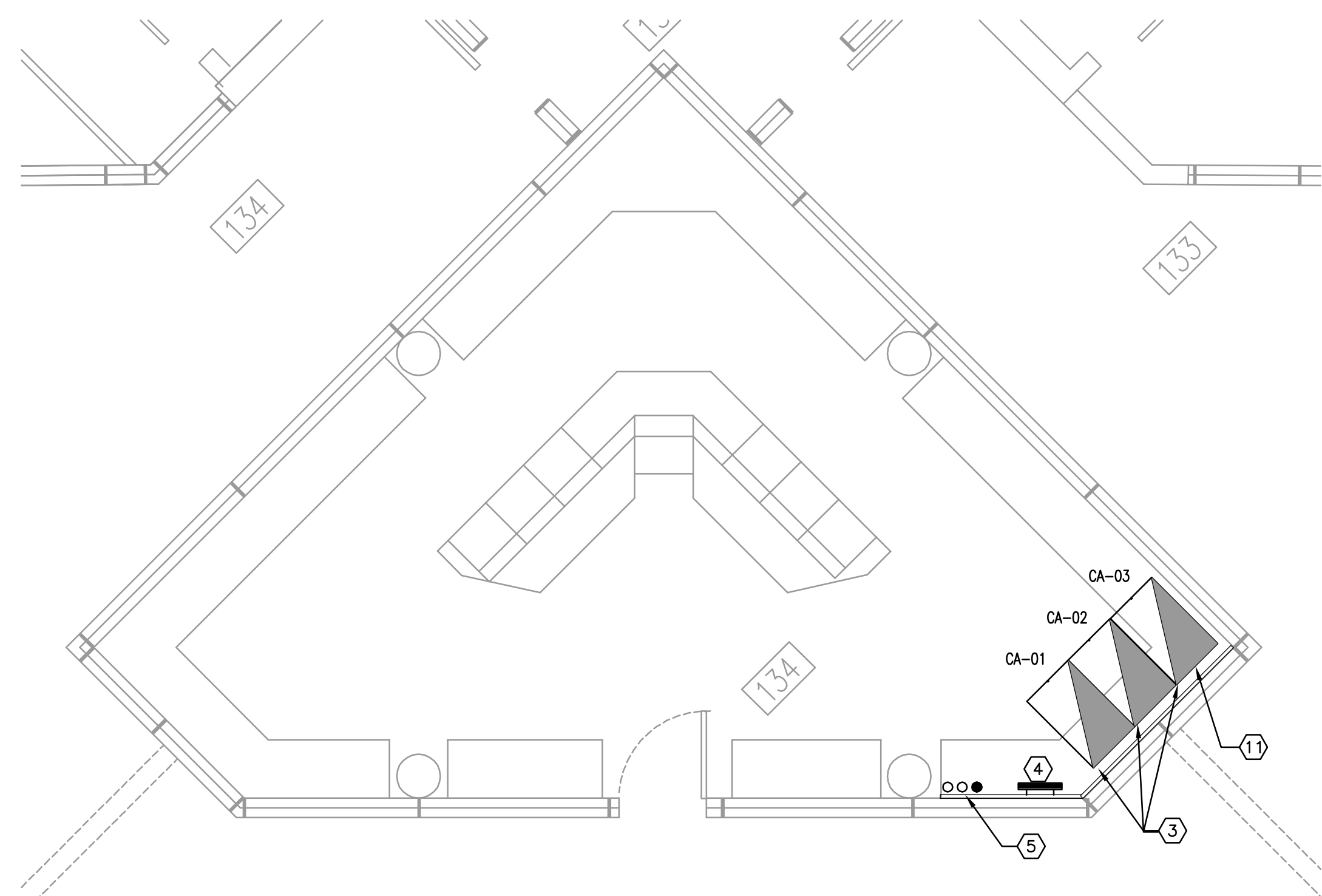
**FLOOR PLAN - BUILDING E - LEVEL 6 - SYSTEMS**

1/8"=1'-0"

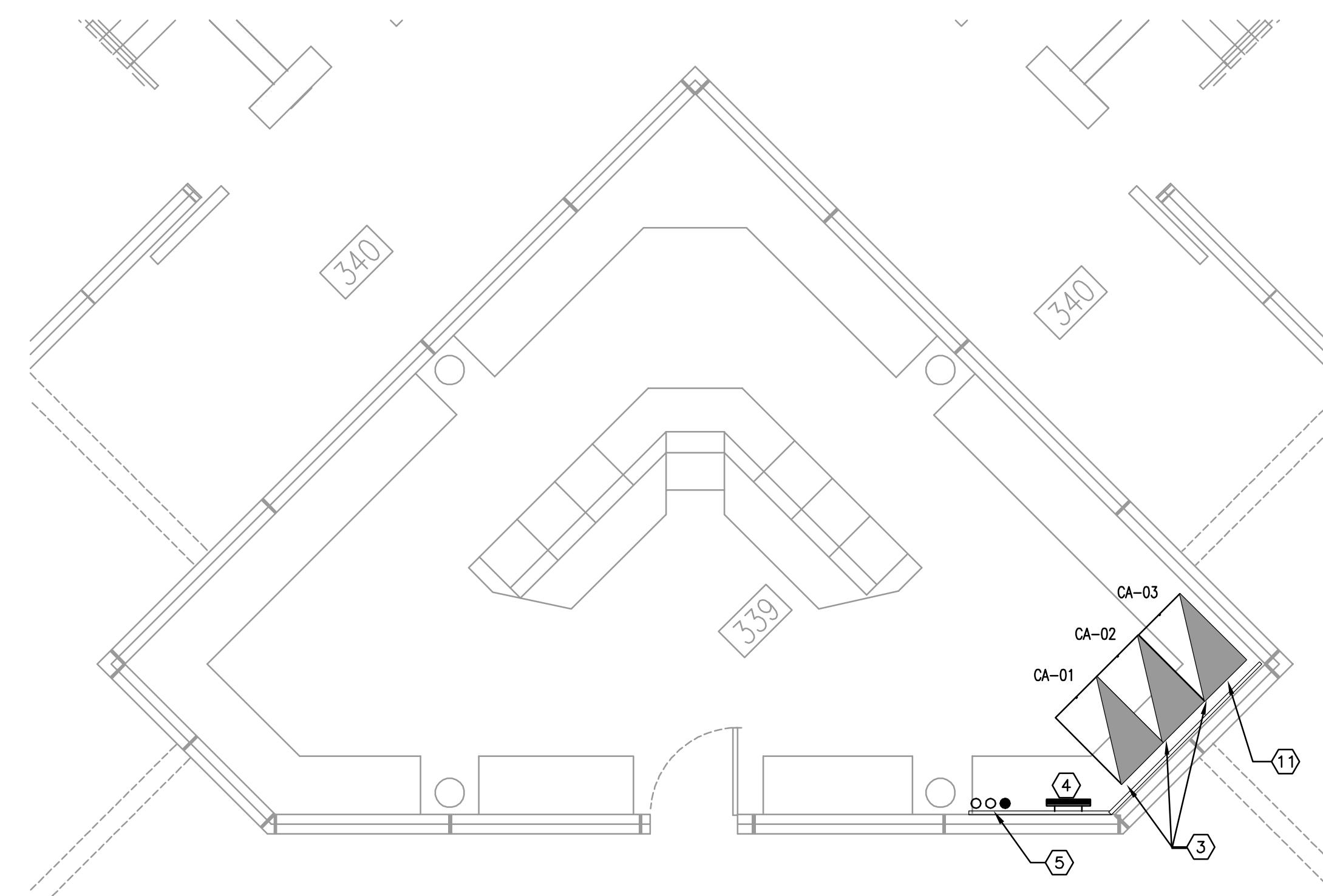
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 PLOT DATE: 6/13/2014 8:03:37 AM  
 MATERN PROFESSIONAL ENGINEERING



**ENLARGED FLOOR PLAN - ROOM 143 - RENO - SYSTEMS**  
 1/4" = 1'-0"  
 0 2' 4' 8'



**ENLARGED FLOOR PLAN - ROOM 134 - RENO - SYSTEMS**  
 1/4" = 1'-0"  
 0 2' 4' 8'



**ENLARGED FLOOR PLAN - ROOM 339 - RENO - SYSTEMS**  
 1/4" = 1'-0"  
 0 2' 4' 8'

- GENERAL NOTES**
- REFER TO GENERAL NOTES FOR THIS DISCIPLINE.
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  - CONTRACTOR SHALL MAINTAIN CONTINUITY TO EXISTING FIXTURES AND/OR DEVICES REMAINING.
  - REFER TO RACK ELEVATIONS.
  - COORDINATE WITH OC CORRECTIONS FACILITY I.T. FOR ALL EQUIPMENT/OUTLET DEMOLITION.
  - ALL F.O. CABLE SERVICE LOOPS TO BE COILED ON DESIGNATED SECTION OF ITB.
  - REMOVE COMPLETE ALL EQUIPMENT ON ITB NOT IN USE.
  - CONTRACTOR SHALL PROVIDE NEW LABELING THROUGHOUT SYSTEM, COORDINATED WITH ORANGE COUNTY CORRECTIONS IT DEPARTMENT, TO REFLECT CHANGES TO EXISTING SYSTEM AND NEW OUTLET TERMINATIONS.

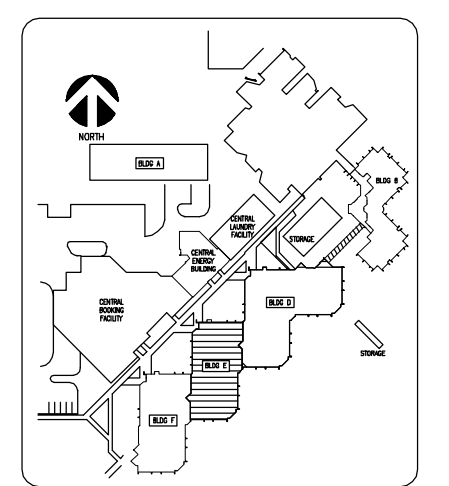
- HEX NOTES**
- SYSTEMS TERMINAL BOARD (STB), PROVIDE WITH GRAY FLAME RETARDANT PAINT. WALL TO WALL, FLOOR TO CEILING.
  - 12" CABLE TRAY, PROVIDE ALL MOUNTING HARDWARE AND ACCESSORIES REQUIRED.
  - NEW 4 POST RACKS, PROVIDE WITH FIXED SIDES AND FRONT AND BACK HINGED PANELS. PROVIDE WITH VERTICAL WIRE MANAGEMENT. SEE SPECIFICATIONS.
  - SYSTEMS GROUND BAR WITH CONNECTION TO ALL SURGE SUPPRESSION EQUIPMENT AND BUILDING SERVICE GROUND. SEE DETAILS.
  - PROVIDE THE APPROPRIATE CONDUIT AMOUNTS AND SIZES TO CONFORM WITH THE PROJECT AS SHOWN IN THE CONTRACT DOCUMENTS. USE APPROPRIATE DETECTION EQUIPMENT PRIOR TO PENETRATING SLAB.
  - EQUIPMENT RACK/CABINET TO BE REMOVED COMPLETE. RELOCATE EXISTING EQUIPMENT REMAINING. REFER TO RACK ELEVATIONS.
  - 110/66 BLOCK WITH HORIZONTAL COPPER VOICE CABLE. TRACE OUT AND IDENTIFY ALL UNUSED VOICE CABLE AND REMOVE COMPLETE. PROVIDE BLANK INSERTS IN ALL REMOVED PORTS AT DATA OUTLET SERVED. REMOVE ALL OBSOLETE 110/66 BLOCKS.
  - F.O. CABLE TO BE TRACED OUT AND REMOVED COMPLETE IF NOT IN USE. IF STILL IN USE RE-TERMINATE IN NEW LLU IN NEW RACK.
  - COPPER CABLE REMAINING TO BE RE-TERMINATED ON NEW PATCH PANEL IN NEW RACK.
  - 110/66 BLOCK TO BE REMOVED COMPLETE. TRACE OUT AND IDENTIFY ANY IN-USE CIRCUITS AND RE-FEED THE OUTLETS REMAINING ACTIVE FROM NEW 110 BLOCK IN COMM. ROOM. REMOVE COMPLETE ALL REMAINING CABLES/DEVICES. CONNECT AND EXTEND CONDUIT TO NEW ROOMS AND REFEED OUTLETS WITH NEW CABLE IF REQUIRED.
  - REMOVE APPROPRIATE SECTION OF EXISTING COUNTER TO ALLOW SUFFICIENT SPACE FOR THE ADDITION OF NEW COMMUNICATION CABINETS.

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 ENG. BUS. No. EB-0005096 CERT. OF AUTH. No. 5096

**ORANGE COUNTY CORRECTIONS COMPOUND COMMUNICATIONS UPGRADE**

**Revisions**

No.	Date	Description



Key Plan

MPE PROJ#: 2014-040  
 Designed By: JEL/DAM  
 Drawn By: AG/JEL/DAM  
 Checked By: DAM/CT  
 Issue Date: 6/10/2014  
 Drawing Scale: 1/4"=1'-0"

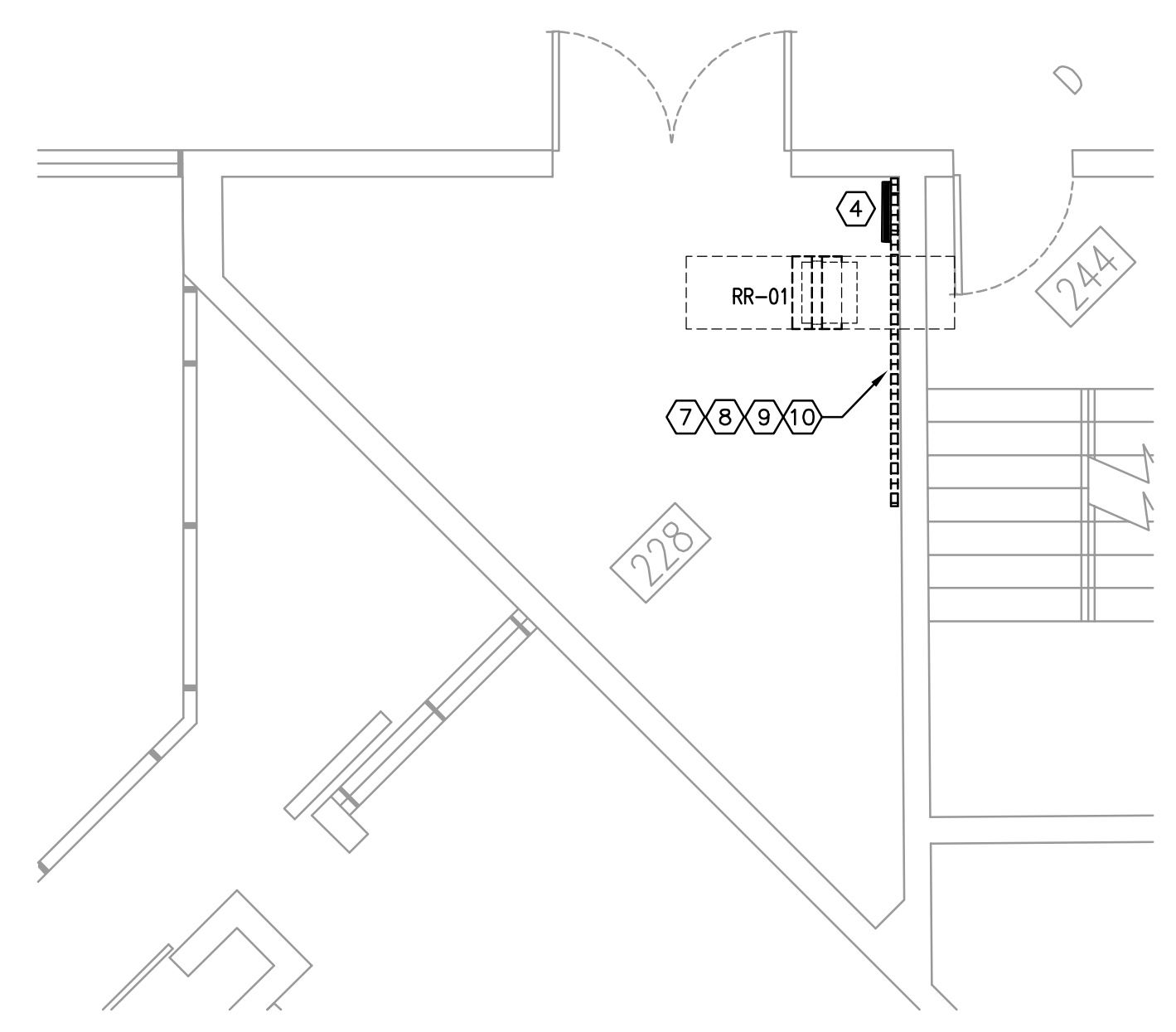
Drawing Title:  
**ENLARGED PLAN BUILDING E LEVEL 1 & 3 SYSTEMS**

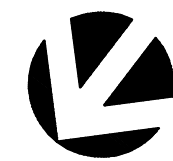
**BID DOCUMENTS**  
 Drawing No.  
**E-E-401**



CREATE DATE: 3/7/2014 3:28:27 PM LAST SAVED: 6/10/2014 10:06:00 AM LAST SAVED BY: JLANDIS

MATERN PROFESSIONAL ENGINEERING PLOT DATE: 6/13/2014 8:03:41 AM FILENAME: I:\2014\_Jobs\2014-04-00 Corrections Compound Comm Upgrade Design\2014-04-00-E-402.dwg



 **ENLARGED FLOOR PLAN - ROOM 228 - RENO - SYSTEMS**  
 1/4" = 1'-0"  
 0 2' 4' 8'

- GENERAL NOTES**
- 1) REFER TO GENERAL NOTES FOR THIS DISCIPLINE.
  - 2) REFER TO SPECIFICATIONS.
  - 3) ALL HEX NOTES NOT NECESSARILY USED ON ALL SHEETS.
  - 4) EXISTING CONDUIT ROUTING IS UNKNOWN.
  - 5) WHERE CONDUIT ROUTING IS SHOWN, THE CONDUITS ARE SHOWN FOR DIAGRAMMATIC PURPOSES AND ARE NOT NECESSARILY REPRESENTATIVE OF EXACT PLACEMENT.
  - 6) CONTRACTOR SHALL IDENTIFY ALL EXISTING CONDUITS, JUNCTION BOXES, ETC. IN ACCORDANCE WITH CONTRACT SPECIFICATIONS.
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  - 11) REMOVE COMPLETE ALL EQUIPMENT ON ITB NOT IN USE.
  - 12) CONTRACTOR SHALL PROVIDE NEW LABELING THROUGHOUT SYSTEM, COORDINATED WITH ORANGE COUNTY CORRECTIONS IT DEPARTMENT, TO REFLECT CHANGES TO EXISTING SYSTEM AND NEW OUTLET TERMINATIONS.

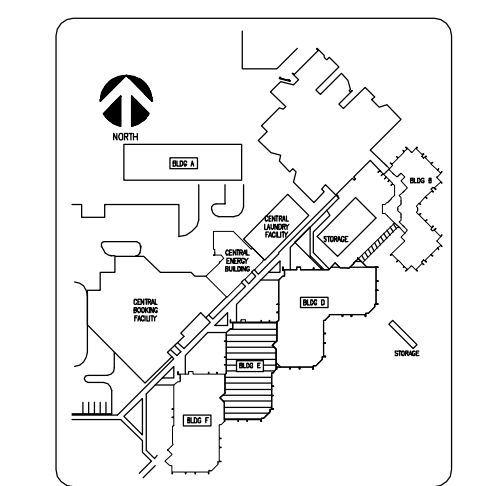
- HEX NOTES**
- ① SYSTEMS TERMINAL BOARD (STB). PROVIDE WITH GRAY FLAME RETARDANT PAINT. WALL TO WALL, FLOOR TO CEILING.
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  - ④ SYSTEMS GROUND BAR WITH CONNECTION TO ALL SURGE SUPPRESSION EQUIPMENT AND BUILDING SERVICE GROUND. SEE DETAILS.
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 ENG. BUS. No. EB-0005096 CERT. OF AUTH. No. 5096

**ORANGE COUNTY CORRECTIONS COMPOUND COMMUNICATIONS UPGRADE**

**Revisions**

No.	Date	Description

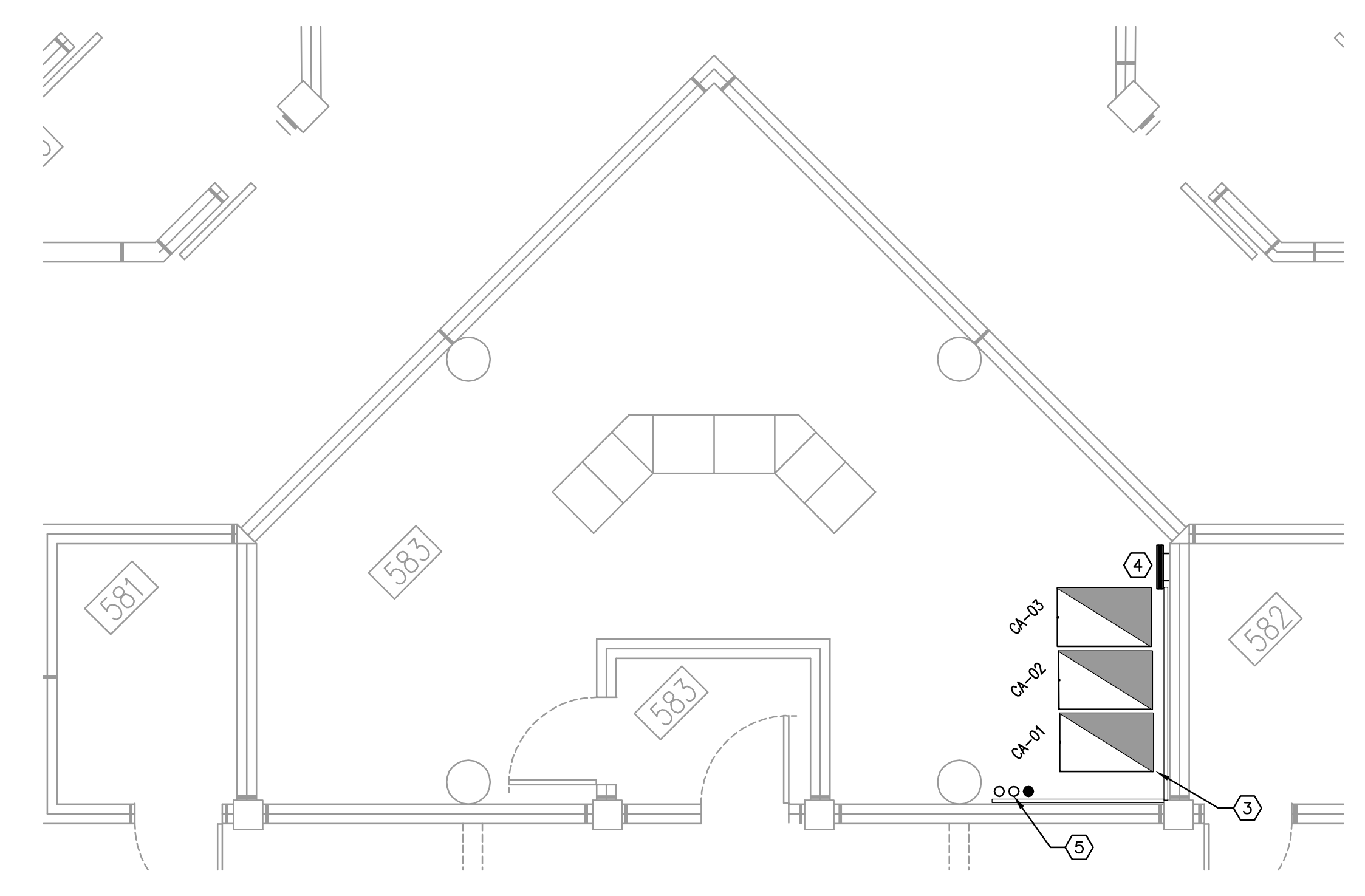


Key Plan

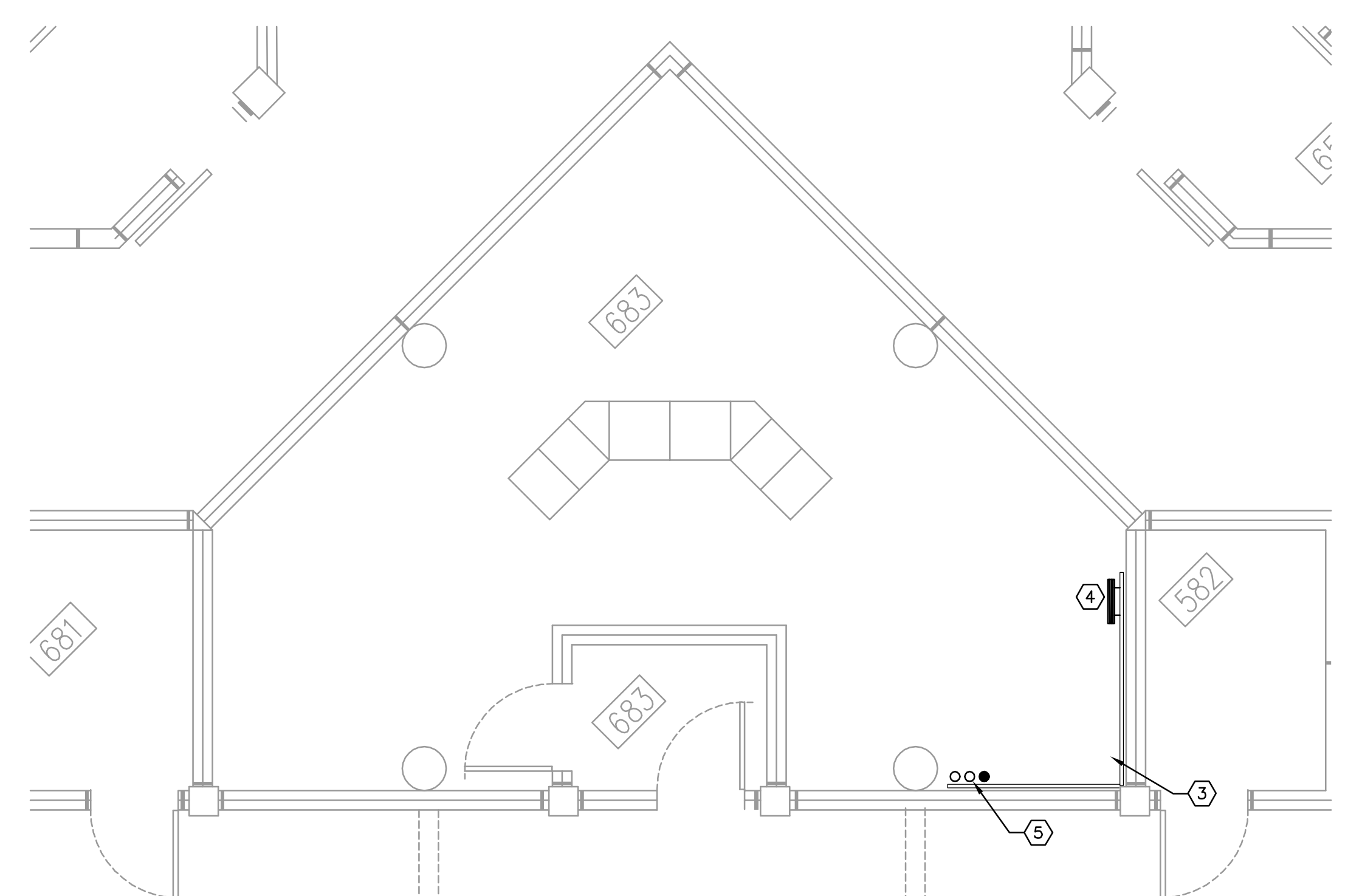
MPE PROJ#: 2014-040  
 Designed By: JEL/DAM  
 Drawn By: AG/JEL/DAM  
 Checked By: DAM/CT  
 Issue Date: 6/10/2014  
 Drawing Scale: 1/8" = 1'-0"  
 Drawing Title:  
**ENLARGED PLAN BUILDING E LEVEL 2 & 4 SYSTEMS**  
**BID DOCUMENTS**  
 Drawing No.  
**E-E-402**

MATERN PROFESSIONAL ENGINEERING PLOT DATE: 6/13/2014 8:03:45 AM FILENAME: I:\2014\_Jobs\2014-04-OC Corrections Compound Comm Upgrade Design\DAO\2014-04-04-E-E-403.dwg  
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**ORANGE COUNTY  
 CORRECTIONS  
 COMPOUND  
 COMMUNICATIONS  
 UPGRADE**



**ENLARGED FLOOR PLAN - ROOM 583 - RENO - SYSTEMS**  
 1/4" = 1'-0"  
 0 2' 4' 8'



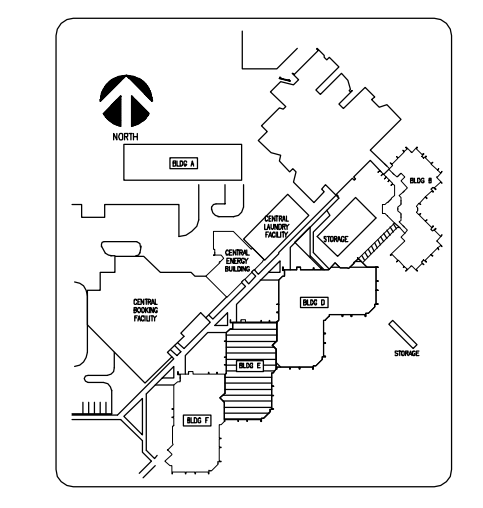
**ENLARGED FLOOR PLAN - ROOM 683 - RENO - SYSTEMS**  
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 0 2' 4' 8'

- GENERAL NOTES**
- REFER TO GENERAL NOTES FOR THIS DISCIPLINE.
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  - ALL F.O. CABLE SERVICE LOOPS TO BE COILED ON DESIGNATED SECTION OF TTB.
  - REMOVE COMPLETE ALL EQUIPMENT ON TTB NOT IN USE.
  - CONTRACTOR SHALL PROVIDE NEW LABELING THROUGHOUT SYSTEM, COORDINATED WITH ORANGE COUNTY CORRECTIONS IT DEPARTMENT, TO REFLECT CHANGES TO EXISTING SYSTEM AND NEW OUTLET TERMINATIONS.

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**Revisions**

No.	Date	Description



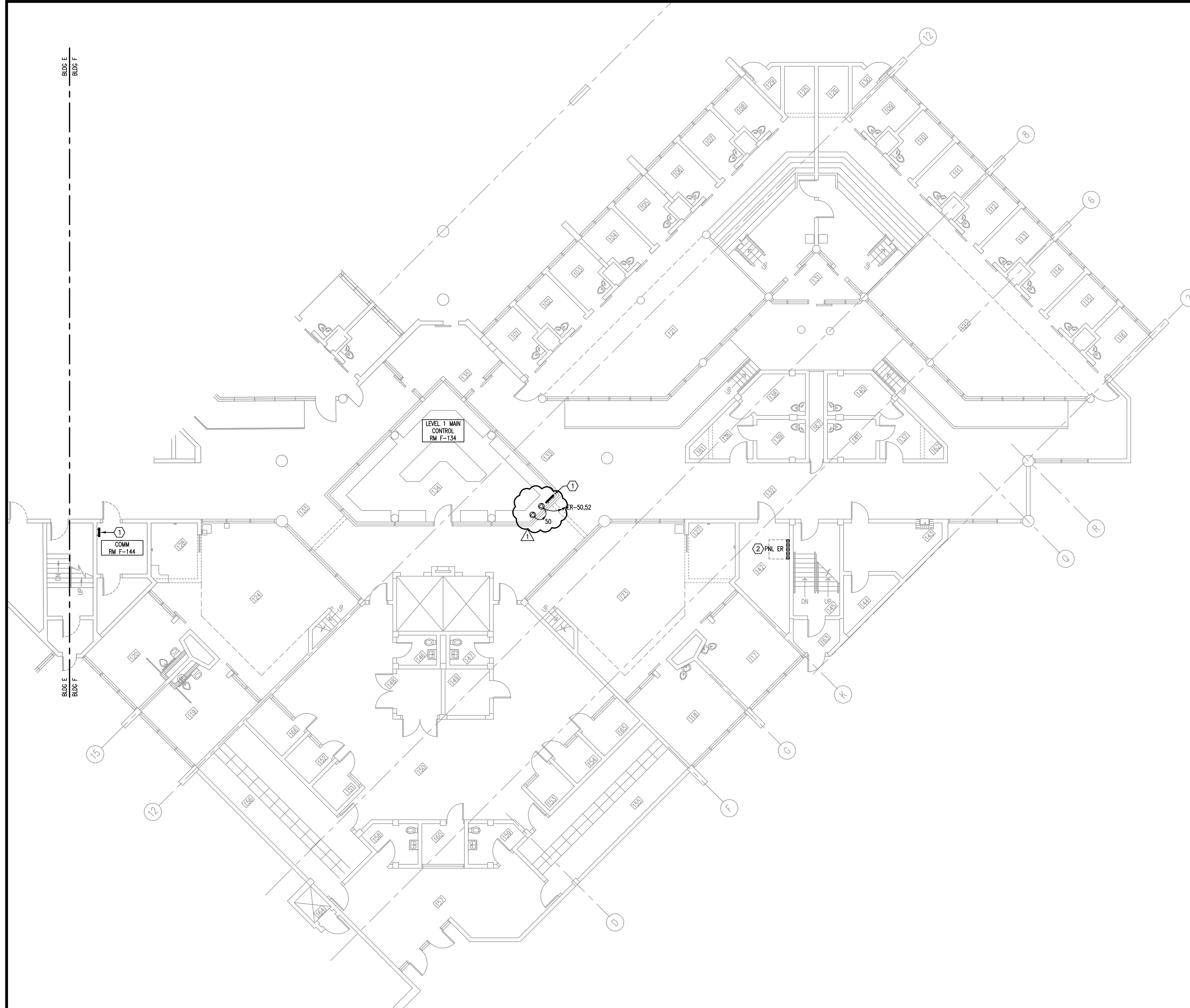
Key Plan

MPE PROJ#: 2014-040  
 Designed By: JEL/DAM  
 Drawn By: AG/JEL/DAM  
 Checked By: DAM/CT  
 Issue Date: 6/10/2014  
 Drawing Scale: 1/4" = 1'-0"

Drawing Title:  
**ENLARGED PLAN  
 BUILDING E  
 LEVEL 5 & 6  
 SYSTEMS**

**BID DOCUMENTS**  
 Drawing No.  
**E-E-403**

MATERN PROFESSIONAL ENGINEERING PLOT DATE: 7/21/2014 3:29:18 PM FILENAME: I:\2014\_Jobs\2014-04-00 Corrections Compound Comm Upgrade Design\2014-04-00-E-F-101.dwg CREATE DATE: 3/21/2014 10:32:09 AM LAST SAVED: 7/21/2014 3:26:38 PM LAST SAVED BY: J.JANDIS



- GENERAL NOTES**
- 1) REFER TO GENERAL NOTES FOR THIS DISCIPLINE.
  - 2) REFER TO SPECIFICATIONS.
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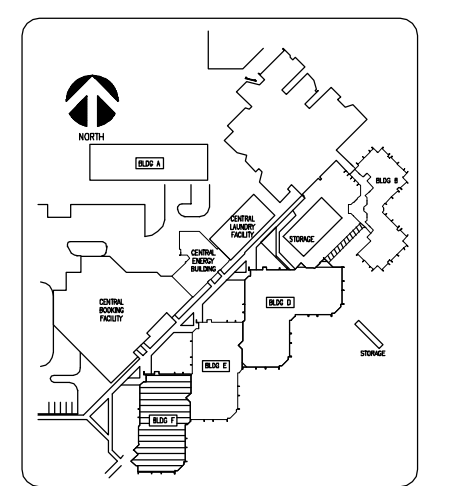
- HEX NOTES**
- 1 PROVIDE NEW SYSTEMS GROUND BUS BAR. REFER TO DETAIL. PROVIDE CONDUIT AND CABLE AS INDICATED IN GROUNDING SYSTEM DETAIL AND INTERCONNECT AS SHOWN ON RISER DIAGRAM.
  - 2 EXISTING PANEL TO BE REWORKED TO FACILITATE NEW CIRCUITS BEING ADDED. REFER TO PANEL SCHEDULES.
  - 3 EXISTING BUILDING MAIN SERVICE.

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 ENG. BUS. No. EB-0005096 CERT. OF AUTH. No. 5096

**ORANGE COUNTY CORRECTIONS COMPOUND COMMUNICATIONS UPGRADE**

**Revisions**

No.	Date	Description
1	07.21.14	Adendum #1



Key Plan

MPE PROJ#: 2014-040  
 Designed By: JEL/DAM  
 Drawn By: AG/JEL/DAM  
 Checked By: DAM/TC  
 Issue Date: 6/10/2014  
 Drawing Scale: 1/8"=1'-0"

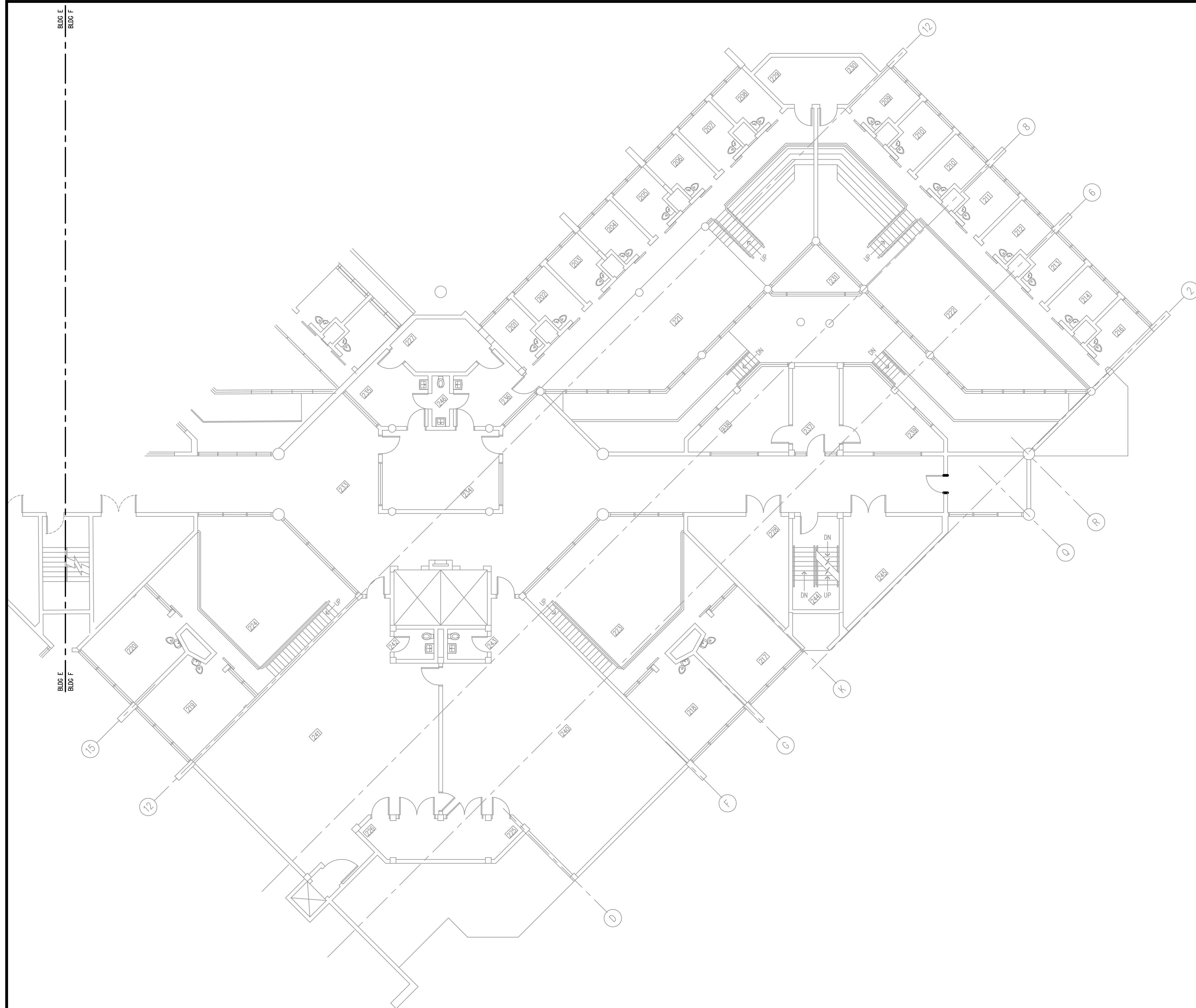
**FLOOR PLAN BUILDING F LEVEL 1 POWER**

**BID DOCUMENTS**  
 Drawing No.  
**E-F-101**

**FLOOR PLAN - BUILDING F - LEVEL 1 - POWER**  
 1/8"=1'-0"  
 0 4' 8' 16'



MATERN PROFESSIONAL ENGINEERING PLOT DATE: 6/13/2014 8:05:52 AM FILENAME: I:\2014\_jobs\2014-04-00-Corrections Compound Comm Upgrade Design\CAD\2014-04-00-E-F-102.dwg  
 CREATE DATE: 3/21/2014 10:31:51 AM LAST SAVED: 6/10/2014 10:05:40 AM LAST SAVED BY: JLANDIS



**FLOOR PLAN - BUILDING F - LEVEL 2 - POWER**  
 1/8"=1'-0"  
 0 4' 8' 16'

- GENERAL NOTES**
- 1) REFER TO GENERAL NOTES FOR THIS DISCIPLINE.
  - 2) REFER TO SPECIFICATIONS.
  - 3) ALL HEX NOTES NOT NECESSARILY USED ON ALL SHEETS.
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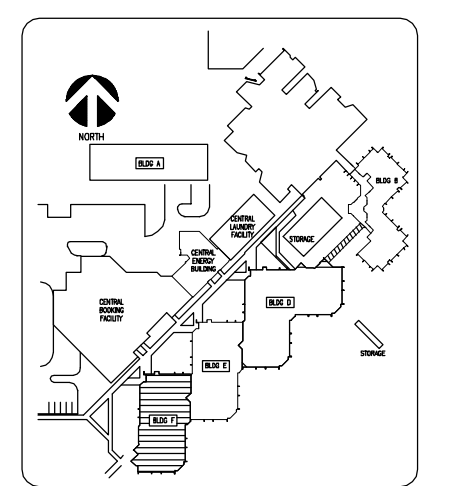
- HEX NOTES**
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 ENG. BUS. NO. EB-0005096 CERT. OF AUTH. NO. 5096

**ORANGE COUNTY  
 CORRECTIONS  
 COMPOUND  
 COMMUNICATIONS  
 UPGRADE**

**Revisions**

No.	Date	Description



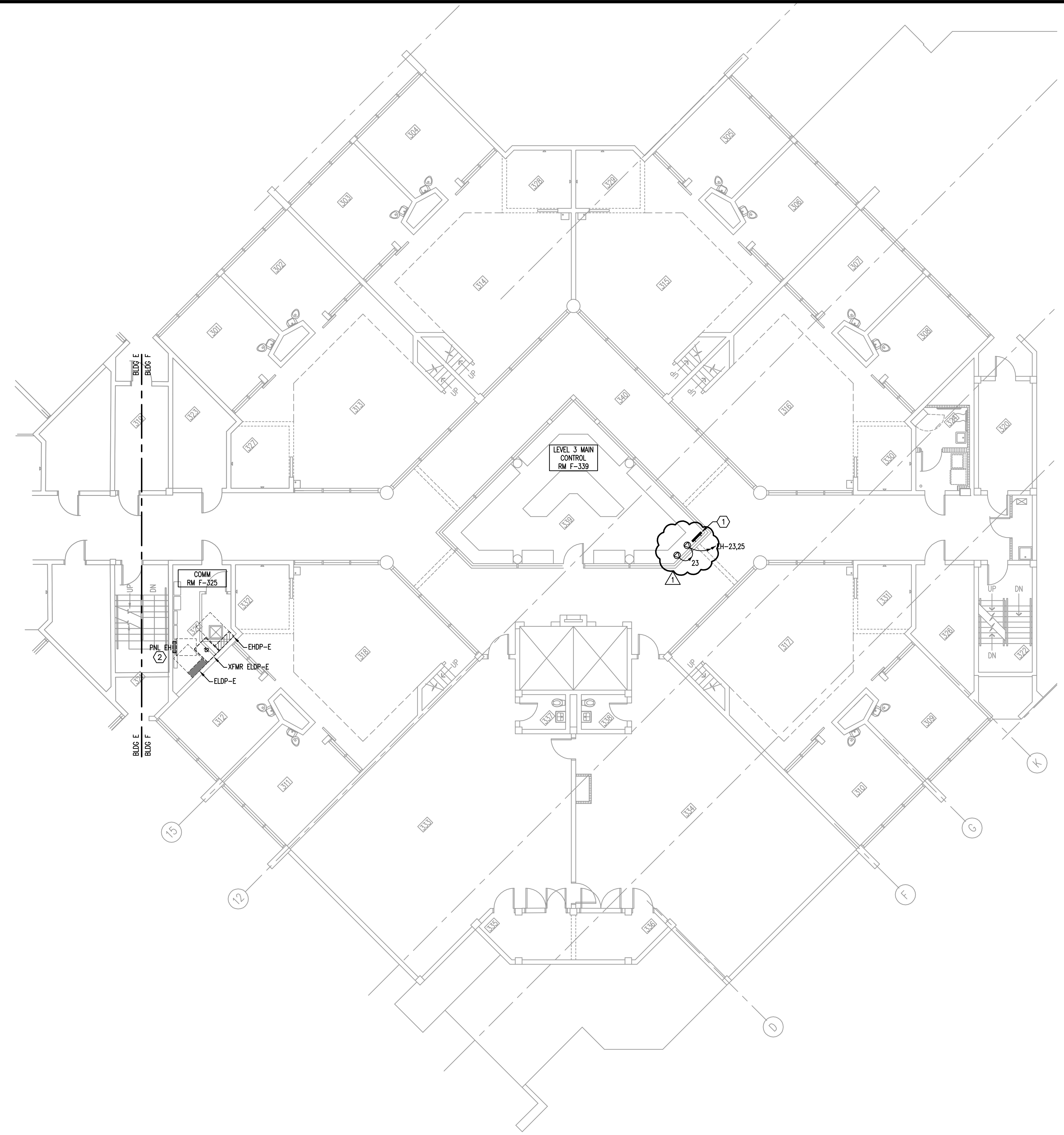
Key Plan

MPE PROJ#: 2014-040  
 Designed By: JEL/DAM  
 Drawn By: AG/JEL/DAM  
 Checked By: DAM/CT  
 Issue Date: 6/10/2014  
 Drawing Scale: 1/8"=1'-0"

**Drawing Title:**  
**FLOOR PLAN  
 BUILDING F  
 LEVEL 2  
 POWER**

**BID DOCUMENTS**  
 Drawing No.  
**E-F-102**

MATERN PROFESSIONAL ENGINEERING PLOT DATE: 7/21/2014 3:30:46 PM FILENAME: I:\2014\_jobs\2014-04-00 Corrections Compound Comm Upgrade Design\CAD\2014-04-00-E-F-103.dwg  
 CREATE DATE: 3/31/2014 10:31:27 AM LAST SAVED: 7/21/2014 3:26:29 PM LAST SAVED BY: JLANDIS




**FLOOR PLAN - BUILDING F - LEVEL 3 - POWER**  
 1/8"=1'-0"  
 0 4 8 16

- GENERAL NOTES**
- REFER TO GENERAL NOTES FOR THIS DISCIPLINE.
  - REFER TO SPECIFICATIONS.
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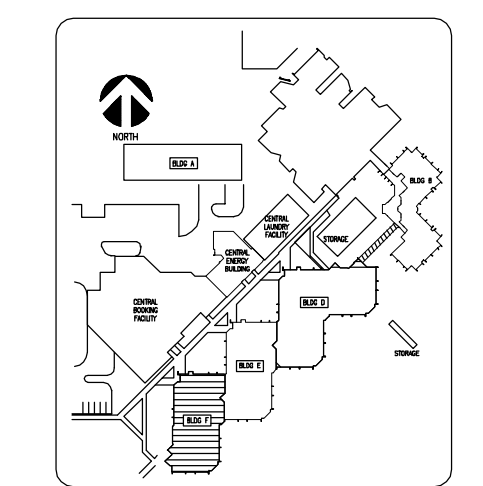
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**ORANGE COUNTY  
 CORRECTIONS  
 COMPOUND  
 COMMUNICATIONS  
 UPGRADE**

**Revisions**

No.	Date	Description
1	07.21.14	Adendum #1

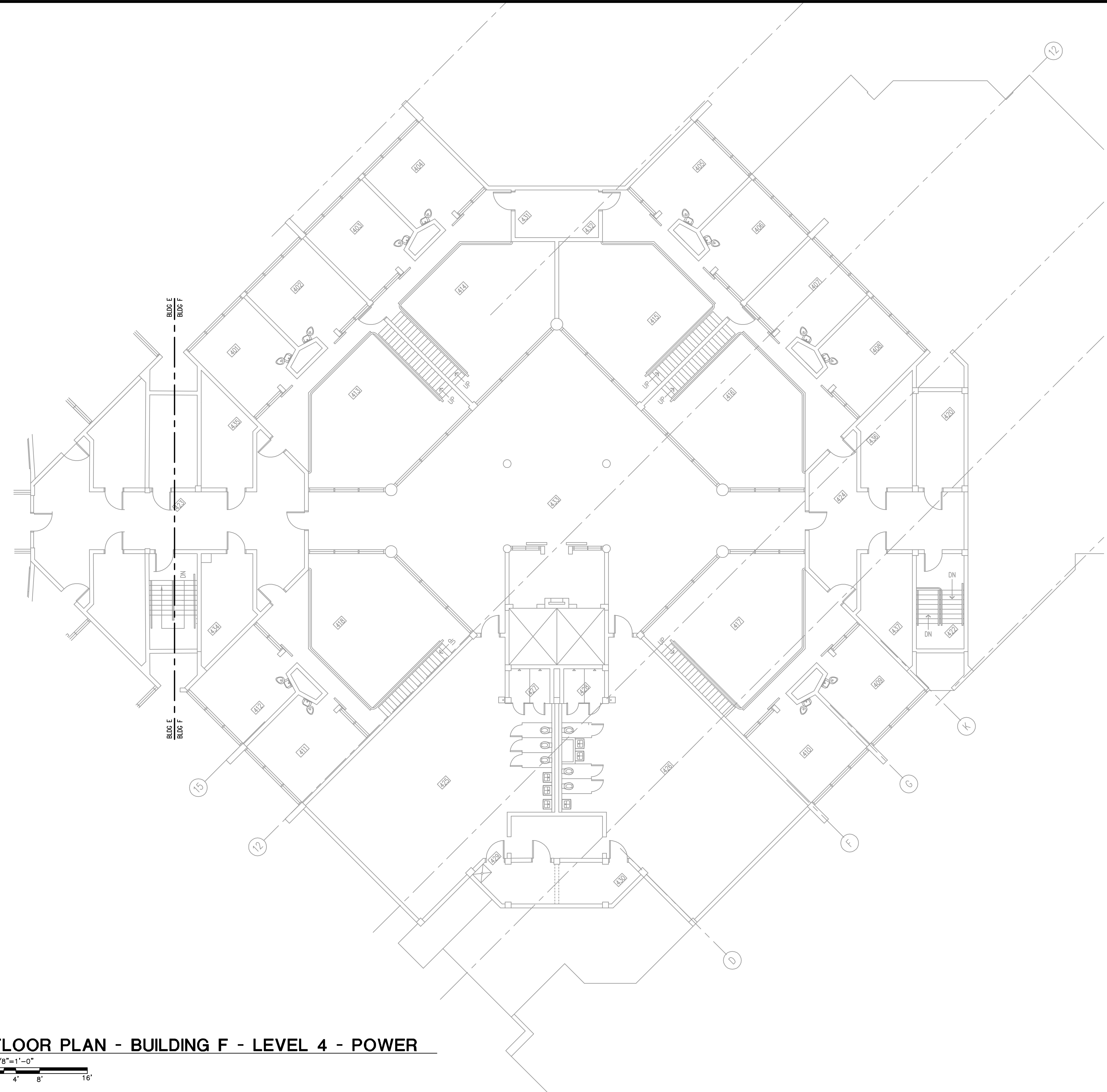


Key Plan  
 MPE PROJ#: 2014-040  
 Designed By: JEL/DAM  
 Drawn By: AG/JEL/DAM  
 Checked By: DAM/CT  
 Issue Date: 6/10/2014  
 Drawing Scale: 1/8"=1'-0"

**FLOOR PLAN  
 BUILDING F  
 LEVEL 3  
 POWER**

**BID DOCUMENTS**  
 Drawing No.  
**E-F-103**

MATERN PROFESSIONAL ENGINEERING PLOT DATE: 6/13/2014 8:05:59 AM FILENAME: I:\2014\_jobs\2014-04-00 Corrections Compound Comm Upgrade Design\CAD\2014-04-04-E-F-104.dwg  
 CREATE DATE: 3/21/2014 10:31:05 AM LAST SAVED: 6/10/2014 10:05:32 AM LAST SAVED BY: JLANDIS



- GENERAL NOTES**
- REFER TO GENERAL NOTES FOR THIS DISCIPLINE.
  - REFER TO SPECIFICATIONS.
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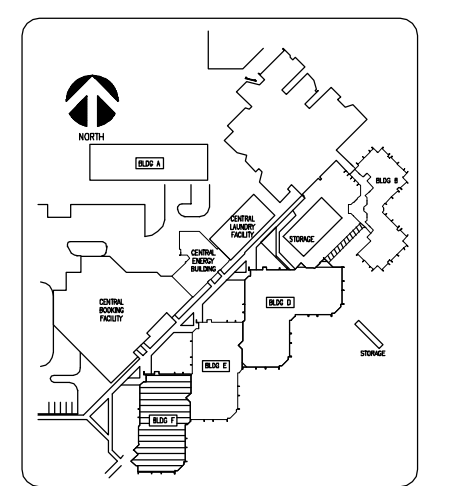
- HEX NOTES**
- PROVIDE NEW SYSTEMS GROUND BUS BAR. REFER TO DETAIL. PROVIDE CONDUIT AND CABLE AS INDICATED IN GROUNDING SYSTEM DETAIL AND INTERCONNECT AS SHOWN ON RISER DIAGRAM.
  - EXISTING PANEL TO BE REWORKED TO FACILITATE NEW CIRCUITS BEING ADDED. REFER TO PANEL SCHEDULES.
  - EXISTING BUILDING MAIN SERVICE.

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 MEP/FP Engineering Consultants - A Solutions Based Firm  
 ORLANDO | Fort Myers | Jacksonville | Tampa  
 Matern Professional Engineering, Inc  
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 Maitland, FL 32751-3331  
 PHONE (407) 740-5020 FAX (407) 740-0395  
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 ENG. BUS. No. EB-0005096 CERT. OF AUTH. No. 5096

**ORANGE COUNTY CORRECTIONS COMPOUND COMMUNICATIONS UPGRADE**

**Revisions**

No.	Date	Description



Key Plan

MPE PROJ#: 2014-040  
 Designed By: JEL/DAM  
 Drawn By: AG/JEL/DAM  
 Checked By: DAM/CT  
 Issue Date: 6/10/2014  
 Drawing Scale: 1/8"=1'-0"

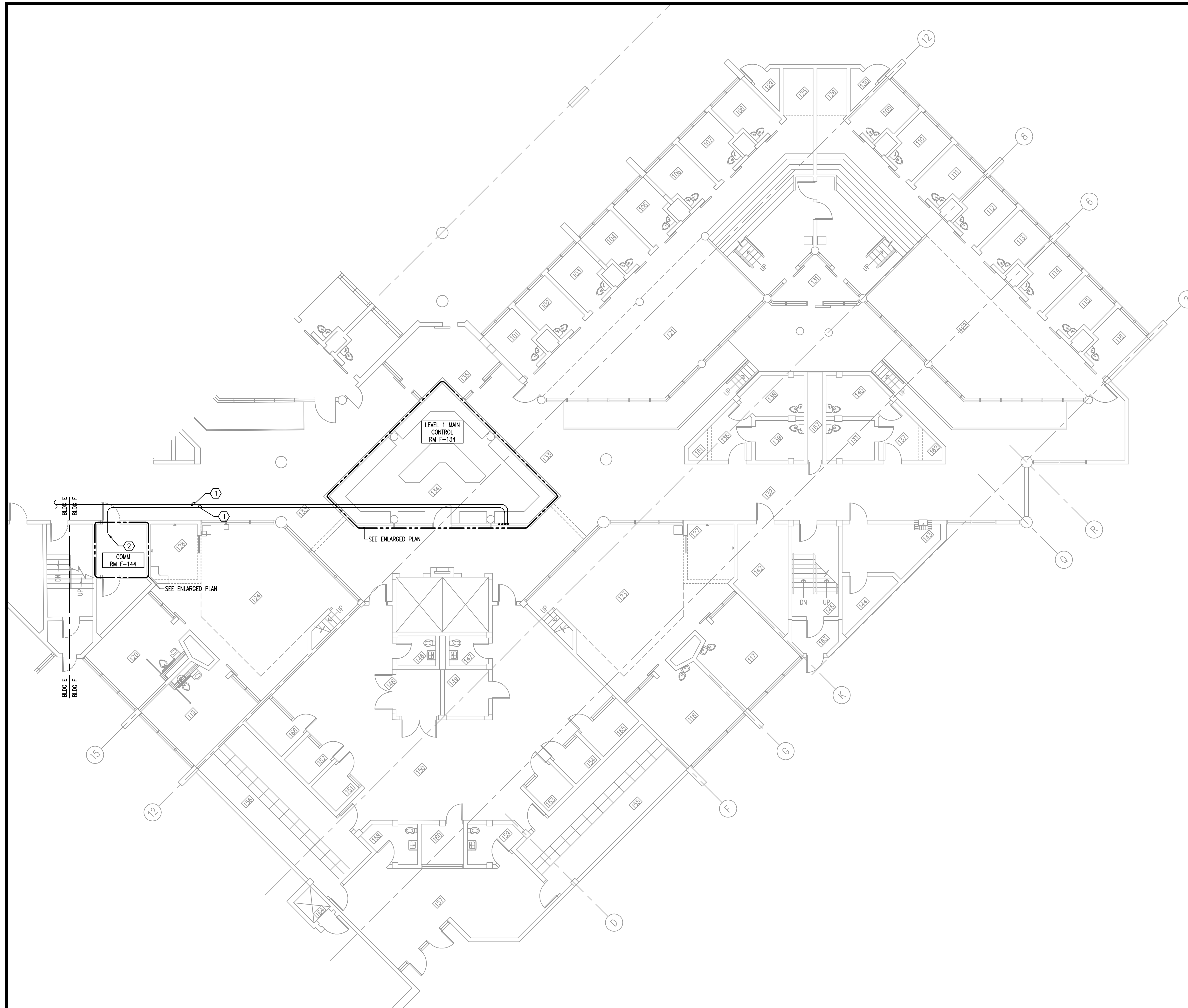
**FLOOR PLAN BUILDING F LEVEL 4 POWER**

**BID DOCUMENTS**  
 Drawing No. E-F-104

**FLOOR PLAN - BUILDING F - LEVEL 4 - POWER**  
 1/8"=1'-0"  
 0 4' 8' 16'



MATERN PROFESSIONAL ENGINEERING PLOT DATE: 6/13/2014 8:04:03 AM FILENAME: I:\2014\_Jobs\2014-04-OC Corrections Compound Comm Upgrade Design\CAD\2014-04-E-F-301.dwg  
 CREATE DATE: 2/26/2014 5:51:30 PM LAST SAVED: 6/10/2014 10:05:27 AM LAST SAVED BY: JLANDS



- GENERAL NOTES**
- 1) REFER TO GENERAL NOTES FOR THIS DISCIPLINE.
  - 2) REFER TO SPECIFICATIONS.
  - 3) ALL HEX NOTES NOT NECESSARILY USED ON ALL SHEETS.
  - 4) EXISTING CONDUIT ROUTING IS UNKNOWN.
  - 5) WHERE CONDUIT ROUTING IS SHOWN, THE CONDUITS ARE SHOWN FOR DIAGRAMMATIC PURPOSES AND ARE NOT NECESSARILY REPRESENTATIVE OF EXACT PLACEMENT.
  - 6) CONTRACTOR SHALL IDENTIFY ALL EXISTING CONDUITS, JUNCTION BOXES, ETC. IN ACCORDANCE WITH CONTRACT SPECIFICATIONS.
  - 7) RELOCATE/REWORK EXISTING ELECTRICAL AS REQUIRED TO FACILITATE RENOVATION.
  - 8) CONTRACTOR SHALL MAINTAIN CONTINUITY TO EXISTING FIXTURES AND/OR DEVICES REMAINING.
  - 8) REFER TO RACK ELEVATIONS.
  - 9) COORDINATE WITH OC CORRECTIONS FACILITY I.T. FOR ALL EQUIPMENT/OUTLET DEMOLITION.
  - 10) ALL F.O. CABLE SERVICE LOOPS TO BE COILED ON DESIGNATED SECTION OF TTB.
  - 11) REMOVE COMPLETE ALL EQUIPMENT ON TTB NOT IN USE.

- HEX NOTES**
- ① NEW CONDUIT, ABOVE FIXED CEILING. REFER TO SYSTEMS RISER.
  - ② TERMINATE WITH BUSHING AT OVERHEAD CABLETRAY.

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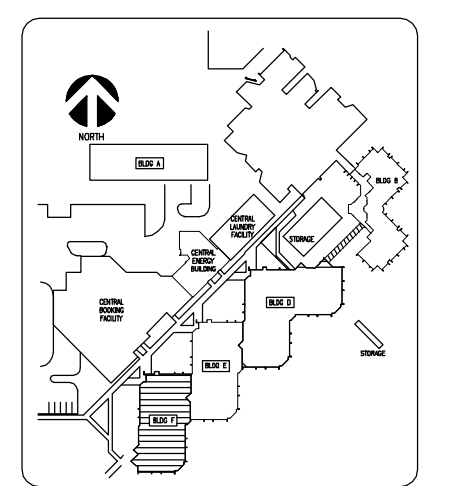
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ENG. BUS. No. EB-0005096 CERT. OF AUTH. No. 5096

**ORANGE COUNTY  
 CORRECTIONS  
 COMPOUND  
 COMMUNICATIONS  
 UPGRADE**

**Revisions**

No.	Date	Description



Key Plan

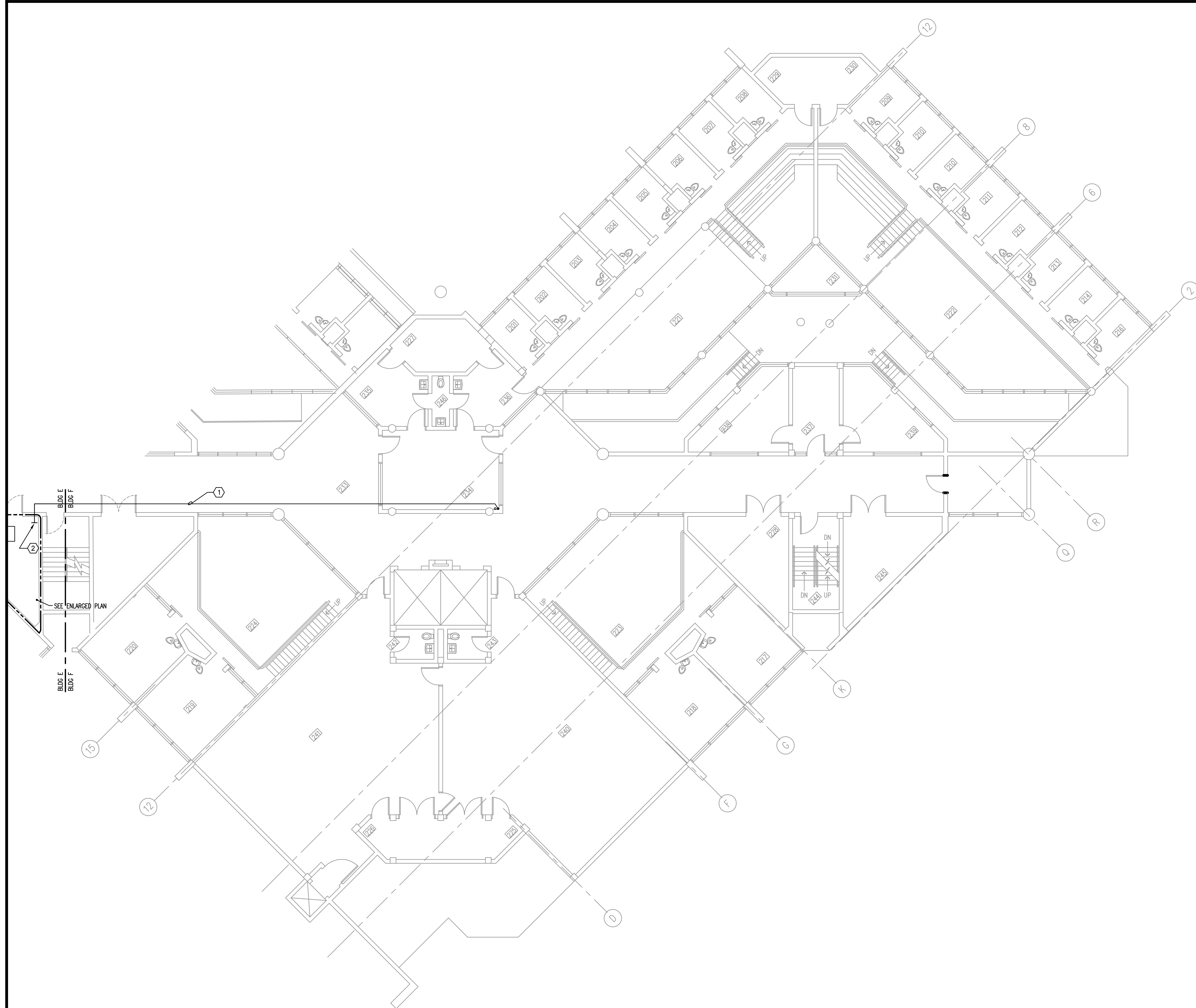
MPE PROJ#: 2014-040  
 Designed By: JEL/DAM  
 Drawn By: AG/JEL/DAM  
 Checked By: DAM/CT  
 Issue Date: 6/10/2014  
 Drawing Scale: 1/8"=1'-0"

**FLOOR PLAN  
 BUILDING F  
 LEVEL 1  
 SYSTEMS**

**BID DOCUMENTS**  
 Drawing No.  
**E-F-301**

**FLOOR PLAN - BUILDING F - LEVEL 1 - SYSTEMS**  
 1/8"=1'-0"  
 0 4' 8' 16'

MATERN PROFESSIONAL ENGINEERING PLOT DATE: 6/13/2014 8:04:08 AM FILENAME: I:\2014\_jobs\2014-04-OC Corrections Compound Comm Upgrade Design\2014-04-OC-F-302.dwg  
 CREATE DATE: 2/26/2014 5:51:30 PM LAST SAVED: 6/10/2014 10:05:22 AM LAST SAVED BY: JLANDIS



- GENERAL NOTES**
- 1) REFER TO GENERAL NOTES FOR THIS DISCIPLINE.
  - 2) REFER TO SPECIFICATIONS.
  - 3) ALL HEX NOTES NOT NECESSARILY USED ON ALL SHEETS.
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  - 8) CONTRACTOR SHALL MAINTAIN CONTINUITY TO EXISTING FIXTURES AND/OR DEVICES REMAINING.
  - 8) REFER TO RACK ELEVATIONS.
  - 9) COORDINATE WITH OC CORRECTIONS FACILITY I.T. FOR ALL EQUIPMENT/OUTLET DEMOLITION.
  - 10) ALL F.O. CABLE SERVICE LOOPS TO BE COILED ON DESIGNATED SECTION OF TTB.
  - 11) REMOVE COMPLETE ALL EQUIPMENT ON TTB NOT IN USE.

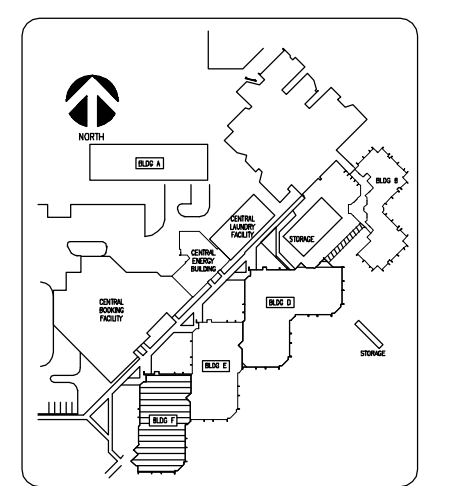
- HEX NOTES**
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  - ② TERMINATE WITH BUSHING AT OVERHEAD CABLETRAY.

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 ENG. BUS. No. EB-0005096 CERT. OF AUTH. No. 5096

**ORANGE COUNTY  
 CORRECTIONS  
 COMPOUND  
 COMMUNICATIONS  
 UPGRADE**

**Revisions**

No.	Date	Description



Key Plan

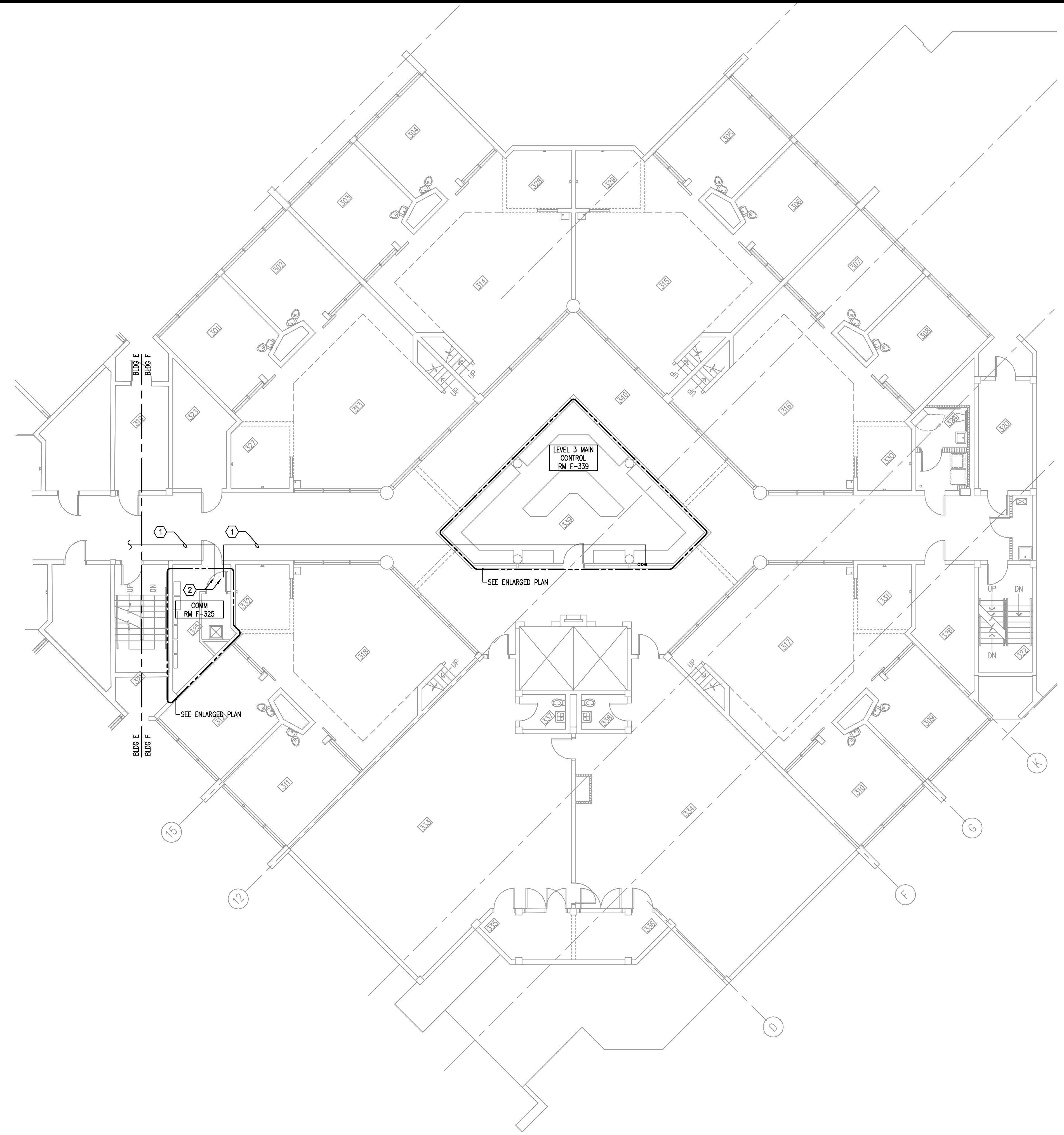
MPE PROJ#: 2014-040  
 Designed By: JEL/DAM  
 Drawn By: AG/JEL/DAM  
 Checked By: DAM/CT  
 Issue Date: 6/10/2014  
 Drawing Scale: 1/8"=1'-0"

**FLOOR PLAN  
 BUILDING F  
 LEVEL 2  
 SYSTEMS**

**BID DOCUMENTS**  
 Drawing No.  
**E-F-302**

**FLOOR PLAN - BUILDING F - LEVEL 2 - SYSTEMS**  
 1/8"=1'-0"  
 0 4' 8' 16'

MATERN PROFESSIONAL ENGINEERING PLOT DATE: 6/13/2014 8:04:10 AM FILENAME: I:\2014\_Jobs\2014-04-OC Corrections Compound Comm Upgrade Design\CAD\2014-04-E-F-303.dwg  
 CREATE DATE: 2/26/2014 5:51:30 PM LAST SAVED: 6/10/2014 10:05:16 AM LAST SAVED BY: JLANDIS



**FLOOR PLAN - BUILDING F - LEVEL 3 - SYSTEMS**  
 1/8"=1'-0"  
 0 4 8 16

- GENERAL NOTES**
- 1) REFER TO GENERAL NOTES FOR THIS DISCIPLINE.
  - 2) REFER TO SPECIFICATIONS.
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  - 11) REMOVE COMPLETE ALL EQUIPMENT ON TTB NOT IN USE.

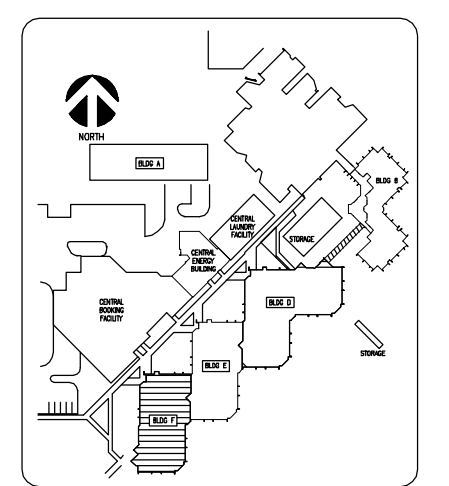
- HEX NOTES**
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  - ② TERMINATE WITH BUSHING AT OVERHEAD CABLETRAY.

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**ORANGE COUNTY  
 CORRECTIONS  
 COMPOUND  
 COMMUNICATIONS  
 UPGRADE**

**Revisions**

No.	Date	Description



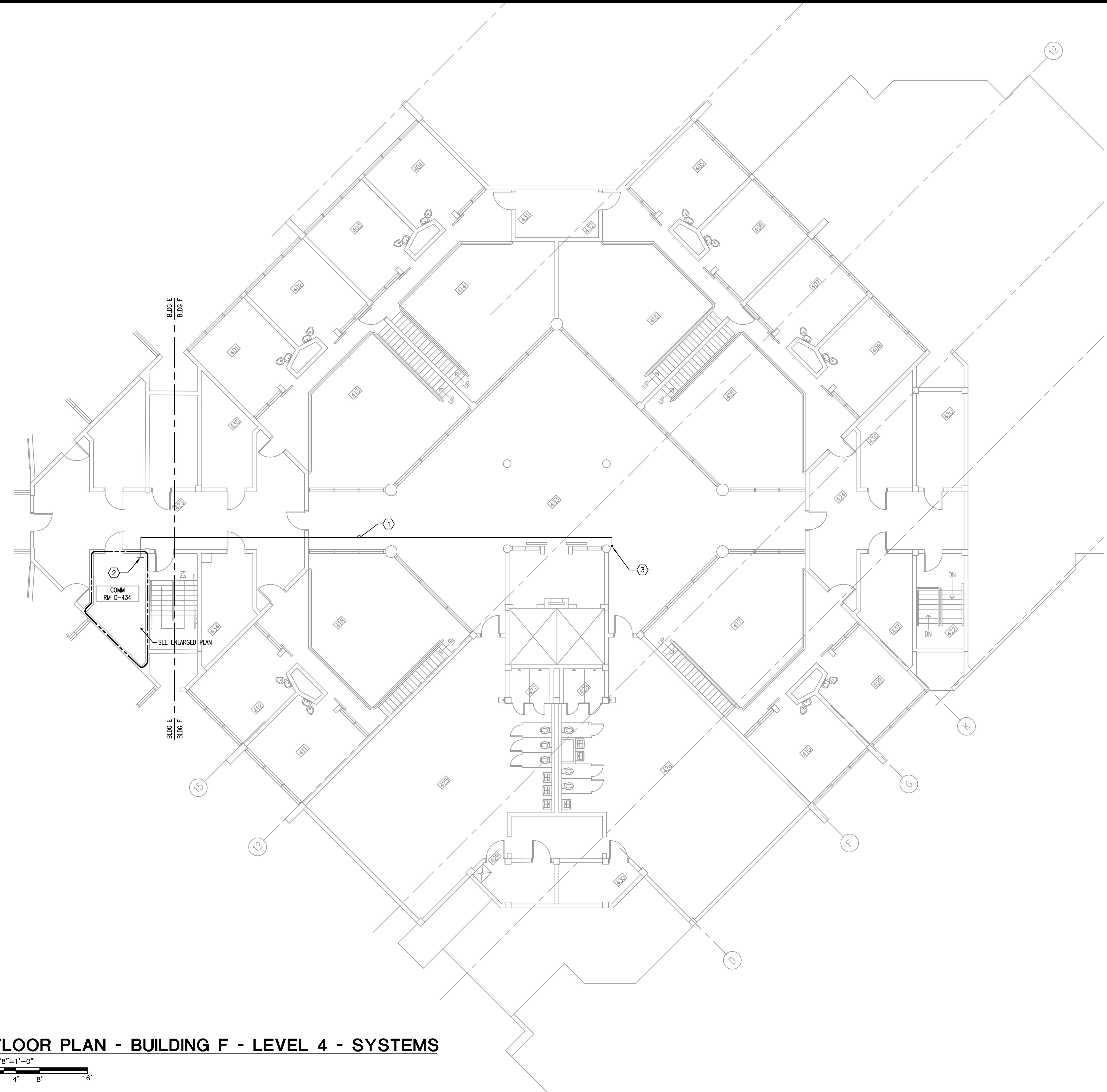
Key Plan

MPE PROJ#: 2014-040  
 Designed By: JEL/DAM  
 Drawn By: AG/JEL/DAM  
 Checked By: DAM/CT  
 Issue Date: 6/10/2014  
 Drawing Scale: 1/8"=1'-0"

**Drawing Title:**  
**FLOOR PLAN  
 BUILDING F  
 LEVEL 3  
 SYSTEMS**

**BID DOCUMENTS**  
 Drawing No.  
**E-F-303**

MATERN PROFESSIONAL ENGINEERING PLOT DATE: 6/13/2014 8:04:14 AM FILENAME: I:\2014\_jobs\2014-04-OC Corrections Compound Comm Upgrade Design\DAO\2014-04-OC-F-304.dwg  
 CREATE DATE: 2/28/2014 4:15:09 PM LAST SAVED: 6/10/2014 10:05:00 AM LAST SAVED BY: JLANDIS



- GENERAL NOTES**
- 1) REFER TO GENERAL NOTES FOR THIS DISCIPLINE.
  - 2) REFER TO SPECIFICATIONS.
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  - 11) REMOVE COMPLETE ALL EQUIPMENT ON TTB NOT IN USE.

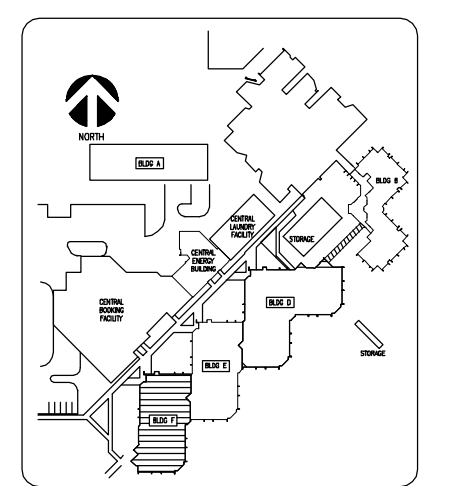
- HEX NOTES**
- ① NEW CONDUIT, ABOVE FIXED CEILING. REFER TO SYSTEMS RISER.
  - ② TERMINATE WITH BUSHING AT OVERHEAD CABLETRAY.
  - ③ CONDUIT ROUNDED UP COLUMN. PROVIDE PROTECTION. REFER TO COLUMN CONDUIT DETAILS. PROVIDE THE APPROPRIATE CONDUIT AMOUNTS AND SIZES TO CONFORM WITH THE PROJECT AS SHOWN IN THE CONTRACT DOCUMENTS. USE APPROPRIATE DETECTION EQUIPMENT PRIOR TO PENETRATING SLAB.

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**ORANGE COUNTY CORRECTIONS COMPOUND COMMUNICATIONS UPGRADE**

**Revisions**

No.	Date	Description



Key Plan

MPE PROJ#: 2014-040  
 Designed By: JEL/DAM  
 Drawn By: AG/JEL/DAM  
 Checked By: DAM/CT  
 Issue Date: 6/10/2014  
 Drawing Scale: 1/8"=1'-0"

**FLOOR PLAN BUILDING F LEVEL 4 SYSTEMS**

**BID DOCUMENTS**  
 Drawing No. E-F-304

**FLOOR PLAN - BUILDING F - LEVEL 4 - SYSTEMS**  
 1/8"=1'-0"  
 0 4' 8' 16'

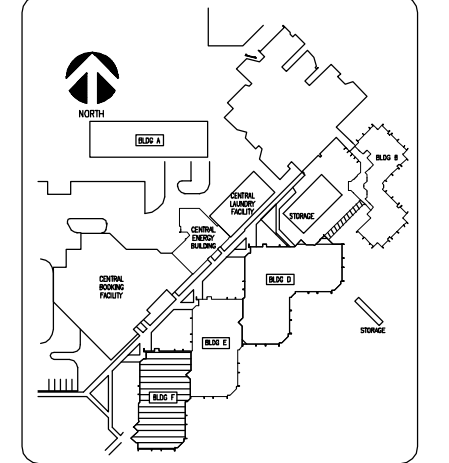


CREATE DATE: 3/7/2014 3:40:29 PM LAST SAVED: 6/10/2014 10:01:54 AM LAST SAVED BY: JLANDS  
 FILENAME: I:\2014\_Jobs\2014-04-00 Corrections Compound Comm Upgrade Design\CAD\2014-04-00-E-F-401.dwg  
 PLOT DATE: 6/13/2014 8:04:18 AM  
 MATERN PROFESSIONAL ENGINEERING

**ORANGE COUNTY  
 CORRECTIONS  
 COMPOUND  
 COMMUNICATIONS  
 UPGRADE**

Revisions

No.	Date	Description



Key Plan

MPE PROJ#: 2014-040  
 Designed By: JEL/DAM  
 Drawn By: AG/JEL/DAM  
 Checked By: DAM/CT  
 Issue Date: 6/10/2014  
 Drawing Scale: 1/4"=1'-0"

Drawing Title:  
**ENLARGED PLAN  
 BUILDING F  
 LEVEL 1 & 3  
 SYSTEMS**

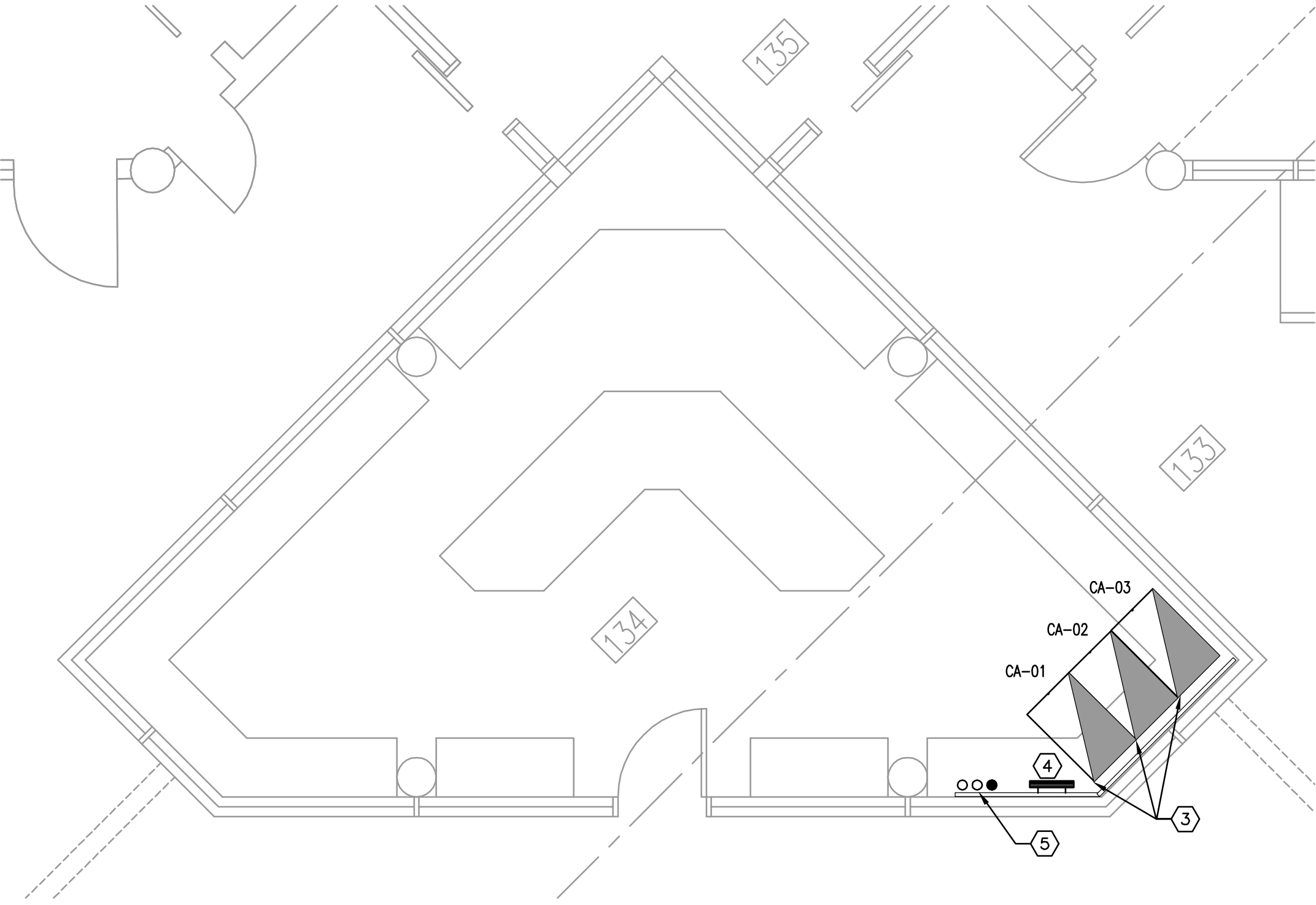
**BID DOCUMENTS**  
 Drawing No.  
**E-F-401**

**GENERAL NOTES**

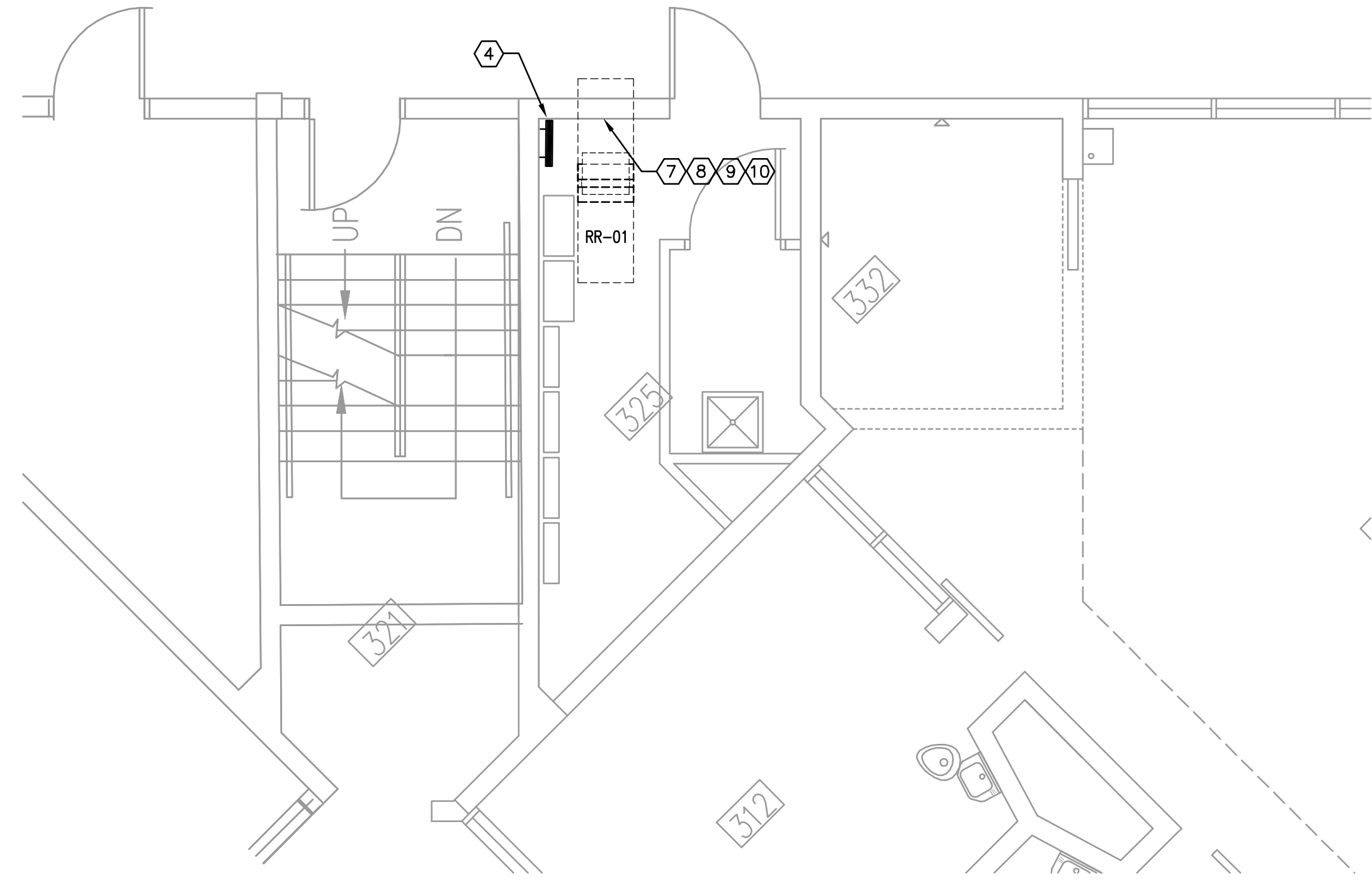
- REFER TO GENERAL NOTES FOR THIS DISCIPLINE.
- REFER TO SPECIFICATIONS.
- ALL HEX NOTES NOT NECESSARILY USED ON ALL SHEETS.
- EXISTING CONDUIT ROUTING IS UNKNOWN.
- WHERE CONDUIT ROUTING IS SHOWN, THE CONDUITS ARE SHOWN FOR DIAGRAMMATIC PURPOSES AND ARE NOT NECESSARILY REPRESENTATIVE OF EXACT PLACEMENT.
- CONTRACTOR SHALL IDENTIFY ALL EXISTING CONDUITS, JUNCTION BOXES, ETC. IN ACCORDANCE WITH CONTRACT SPECIFICATIONS.
- RELOCATE/REWORK EXISTING ELECTRICAL AS REQUIRED TO FACILITATE RENOVATION.
- CONTRACTOR SHALL MAINTAIN CONTINUITY TO EXISTING FIXTURES AND/OR DEVICES REMAINING.
- REFER TO RACK ELEVATIONS.
- COORDINATE WITH OC CORRECTIONS FACILITY I.T. FOR ALL EQUIPMENT/OUTLET DEMOLITION.
- ALL F.O. CABLE SERVICE LOOPS TO BE COILED ON DESIGNATED SECTION OF TTB.
- REMOVE COMPLETE ALL EQUIPMENT ON TTB NOT IN USE.
- CONTRACTOR SHALL PROVIDE NEW LABELING THROUGHOUT SYSTEM, COORDINATED WITH ORANGE COUNTY CORRECTIONS IT DEPARTMENT, TO REFLECT CHANGES TO EXISTING SYSTEM AND NEW OUTLET TERMINATIONS.

**HEX NOTES**

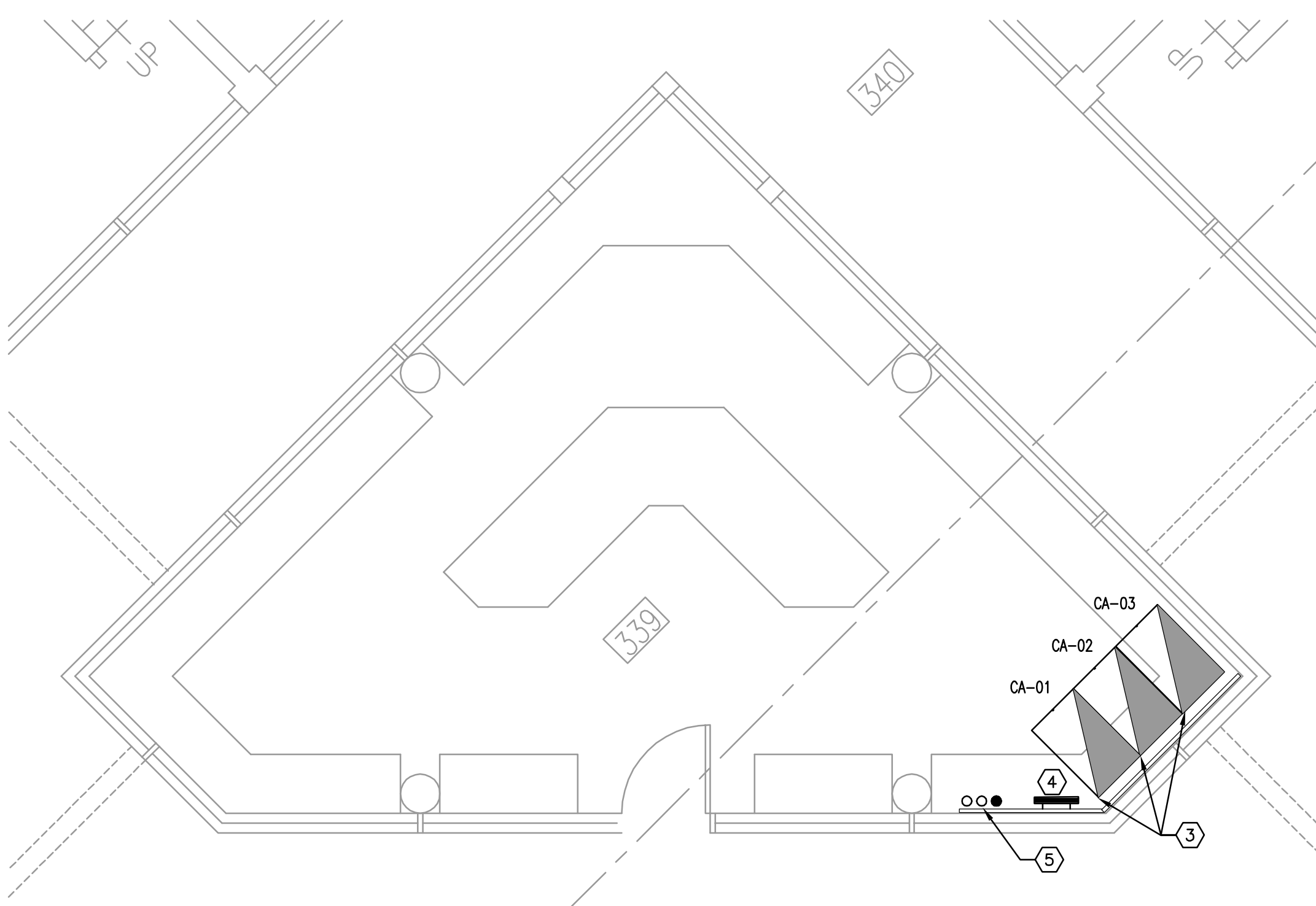
- NOT USED
- 12" CABLE TRAY. PROVIDE ALL MOUNTING HARDWARE AND ACCESSORIES REQUIRED.
- NEW 4 POST RACKS. PROVIDE WITH FIXED SIDES AND FRONT AND BACK HINGED PANELS. PROVIDE WITH VERTICAL WIRE MANAGEMENT. SEE SPECIFICATIONS.
- SYSTEMS GROUND BAR WITH CONNECTION TO ALL SURGE SUPPRESSION EQUIPMENT AND BUILDING SERVICE GROUND. SEE DETAILS.
- PROVIDE THE APPROPRIATE CONDUIT AMOUNTS AND SIZES TO CONFORM WITH THE PROJECT AS SHOWN IN THE CONTRACT DOCUMENTS. USE APPROPRIATE DETECTION EQUIPMENT PRIOR TO PENETRATING SLAB.
- NOT USED.
- 110/66 BLOCK WITH HORIZONTAL COPPER VOICE CABLE. TRACE OUT AND IDENTIFY ALL UNUSED VOICE CABLE AND REMOVE COMPLETE. PROVIDE BLANK INSERTS IN ALL REMOVED PORTS AT DATA OUTLET SERVED. REMOVE ALL OBSOLETE 110/66 BLOCKS.
- F.O. CABLE TO BE TRACED OUT AND REMOVED COMPLETE IF NOT IN USE. IF STILL IN USE RE-TERMINATE IN NEW LLU IN NEW RACK.
- COPPER CABLE REMAINING TO BE RE-TERMINATED ON NEW PATCH PANEL IN NEW RACK.
- 110/66 BLOCK TO BE REMOVED COMPLETE. TRACE OUT AND IDENTIFY ANY IN-USE CIRCUITS AND RE-FEED THE OUTLETS REMAINING ACTIVE FROM NEW 110 BLOCK IN COMM ROOM. REMOVE COMPLETE ALL REMAINING CABLES/DEVICES. CONNECT AND EXTEND CONDUIT TO NEW ROOMS AND REFEED OUTLETS WITH NEW CABLE IF REQUIRED



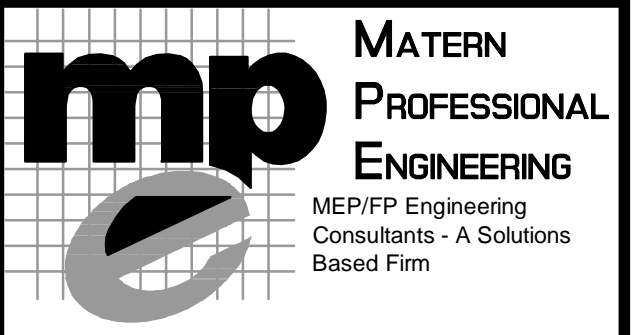
**ENLARGED FLOOR PLAN - ROOM 134 - RENO - SYSTEMS**  
 1/4" = 1'-0"  
 0 2' 4' 8'



**ENLARGED FLOOR PLAN - ROOM 325 - RENO - SYSTEMS**  
 1/4" = 1'-0"  
 0 2' 4' 8'



**ENLARGED FLOOR PLAN - ROOM 339 - RENO - SYSTEMS**  
 1/4" = 1'-0"  
 0 2' 4' 8'



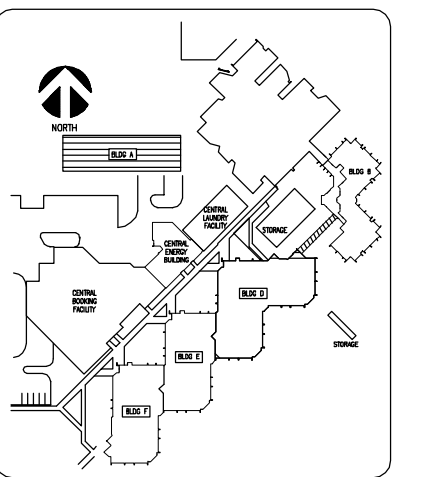
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 ENG. BUS. No. EB-0005096 CERT. OF AUTH. No. 5096

**ORANGE COUNTY  
 CORRECTIONS  
 COMPOUND  
 COMMUNICATIONS  
 UPGRADE**

Revisions

No.	Date	Description



Key Plan

MPE PROJ#: 2014-040

Designed By: DESIGNER

Drawn By: AG/

Checked By: ENGINEER

Issue Date: 6/10/2014

Drawing Scale: 1/8"=1'-0"

Drawing Title:

POWER RISER

**BID DOCUMENTS**

Drawing No.

E501

**ORANGE COUNTY CORRECTIONS COMPOUND COMMUNICATIONS UPGRADE**

Revisions

No.	Date	Description
1	07.21.14	Adendum #1

MPE PROJ#: 2014-040  
 Designed By: DAM  
 Drawn By: AG/  
 Checked By: DAM/CT  
 Issue Date: 6/10/2014  
 Drawing Scale: NONE  
 Drawing Title:

**ELECTRICAL SCHEDULES**

**BID DOCUMENTS**

Drawing No. **E601**

COPYRIGHT ME, LLC 06/01/03 VERSION: C1a REVISED: 04/28/14

PANEL: EA (EXIST.REV)

EXISTING: YES  
 SECTIONS: 1  
 NEMA 3R:

GENERAL NOTES:  
 (1) ALL C.B.'S FEEDING HVAC EQUIPMENT TO BE HACR TYPE.  
 (2) ALL C.B.'S FEEDING ELEV EQUIP TO BE SHUNT-TRIP TYPE.  
 (3) ALL C.B.'S FEEDING ELEV EQUIP TO BE SIZED AS REQ'D BY MFR.  
 (4) ALL C.B.'S FEEDING HID LTG TO BE HID RATED.  
 (5) NO MULTIWIRE BRANCH CKTS ARE ALLOWED.  
 (6) NOT USED.

NOTES AND REFERENCE NOTES:  
 MFR = SIZE CB PER MFR. RECOMMENDATIONS.  
 \$ = NEW CB IN EXIST SPACE  
 & = REPLACE EXIST CB WITH NEW  
 SH = SHUNT TRIP C.B.  
 AF = ARC FAULT CB

OPTIONAL CALC NO  
 ACTUAL CONN LOAD 29 KVA 81 AMPS  
 DEMAND 26 KVA 72 AMPS  
 DIVERSITY 26 KVA 72 AMPS  
 TRANSFORMER SIZE KVA

SECTION 1 WITH MAINS WIDTH: 20 DEPTH: 6.00

LOAD										LOAD									
DESCRIPTION	CONN	TYPE	AMPS	AMPS	AMPS	C.B. AMPS	C.B. POLE	REF NOTE	CKT. NO.	CKT. NO.	REF NOTE	C.B. POLE	C.B. AMPS	AMPS	AMPS	AMPS	DESCRIPTION	CONN	TYPE
CORR LTS	1200	2.0	10			20	1		1	2		1	20	9			CELL DOORS	1	20
SPARE		0.2				20	1		3	4		1	20	9			CELL DOORS	9	5.0
CORR LTS	1200	2.0	10			20	1		5	6		1	20	9			CELL DOORS	10	5.0
CTRL RM LTS	1000	2.0	8			20	1		7	8		1	20	8			CELL DOORS	8	5.0
CTRL RM LTS	1000	2.0	8			20	1		9	10		1	20	9			CELL DOORS	9	5.0
CTRL RM LTS	1000	2.0	8			20	1		11	12		1	20	9			TR/A DR LCKS	9	5.0
STEP LTS	1000	2.0	7			20	1		13	14		1	20	10			CTRL RM RCPT	7	4.0
STEP LTS	1000	2.0	8			20	1		15	16		1	20	9			CTRL RM RCPT	6	4.0
STEP LTS	950	2.0	8			20	1		17	18		1	20	12			CTRL RM RCPT	8	4.0
DAYRM LTS	1050	2.0	9			20	1		19	20		1	20	8			CAMERA	8	5.0
DAYRM LTS	1100	2.0	9			20	1		21	22		1	20	8			CAMERA	8	5.0
AC CTRL	8	5.0	8			20	1		23	24		1	20	8			IC/A	8	5.0
AC CTRL	8	5.0	8			20	1		25	26		1	20				SPARE		0.2
SPARE		0.2				20	1		27	28		1	20	5			FIRE ALARM	5	5.0
SPACE						1			29	30		1	20				SPARE		0.2
SPACE						1			31	32		1	20				SPARE		0.2
SPACE						1			33	34		1	20				SPARE		0.2
SPACE						1			35	36		1	20				SPARE		0.2
SPACE						1			37	38		1	20				SPARE		0.2
RECEPTS	4	4.0	6			30	2	\$	39	40		1	20	8			CCTV MONITOR	8	5.0
RECEPTS	4	4.0	6			30	2	\$	41	42		1	20	8			CCTV MONITOR	7	5.0
SUBFEED LUGS/BREAKER										SUBFEED LUGS/BREAKER									

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PANEL: EF (EXIST.REV)

EXISTING: YES  
 SECTIONS: 1  
 NEMA 3R:

GENERAL NOTES:  
 (1) ALL C.B.'S FEEDING HVAC EQUIPMENT TO BE HACR TYPE.  
 (2) ALL C.B.'S FEEDING ELEV EQUIP TO BE SHUNT-TRIP TYPE.  
 (3) ALL C.B.'S FEEDING ELEV EQUIP TO BE SIZED AS REQ'D BY MFR.  
 (4) ALL C.B.'S FEEDING HID LTG TO BE HID RATED.  
 (5) NO MULTIWIRE BRANCH CKTS ARE ALLOWED.  
 (6) NOT USED.

NOTES AND REFERENCE NOTES:  
 MFR = SIZE CB PER MFR. RECOMMENDATIONS.  
 \$ = NEW CB IN EXIST SPACE  
 & = REPLACE EXIST CB WITH NEW  
 SH = SHUNT TRIP C.B.  
 AF = ARC FAULT CB

OPTIONAL CALC NO  
 ACTUAL CONN LOAD 29 KVA 68 AMPS  
 DEMAND 21 KVA 59 AMPS  
 DIVERSITY 21 KVA 59 AMPS  
 TRANSFORMER SIZE KVA

SECTION 1 WITH MAINS WIDTH: 20 DEPTH: 6.00

LOAD										LOAD									
DESCRIPTION	CONN	TYPE	AMPS	AMPS	AMPS	C.B. AMPS	C.B. POLE	REF NOTE	CKT. NO.	CKT. NO.	REF NOTE	C.B. POLE	C.B. AMPS	AMPS	AMPS	AMPS	DESCRIPTION	CONN	TYPE
LTS VISITATION	1100	2.0	9			20	1		1	2		1	20				SPARE CKT IN CTRL CONSOLE		0.2
STEP LTS AT HILL POST	1100	2.0	9			20	1		3	4		1	20	8			TRF RM 143	8	5.0
1ST FL CORR LTS 142	1100	2.0	9			20	1		5	6		1	20	8			CONTROL CONSOLE	8	5.0
LTS RM 163	1100	2.0	9			20	1		7	8		1	20	8			CONTROL CONSOLE	8	5.0
DAYROOM 223 LTS	950	2.0	8			20	1		9	10		1	20	8			DCJB RM 142	8	5.0
DAYROOM 221,223 LTS	1100	2.0	9			20	1		11	12		1	20	8			DCJB RM 133	8	5.0
STEP LTS	1000	2.0	7			20	1		13	14		1	20	8			DCJB RM 133	8	5.0
SPARE		0.2				20	1		15	16		1	20	8			DCJB RM 133	8	5.0
LTS BY ELV RM 233	800	2.0	7			20	1		17	18		1	20	8			DCJB RM 133	8	5.0
A/C CONTROL PWR	7	5.0	7			20	1		19	20		1	20				SPARE		0.2
DAY CONTROL PWR	6	5.0	6			20	1		21	22		1	20	8			DCJB RM 228	8	5.0
RECEPTS	6	4.0	9			30	2	\$	23	24		1	20	7			DCJB RM 228	7	5.0
RECEPTS	6	4.0	9			30	2	\$	25	26		1	20	7			DAYROOM 224 LTS	800	2.0
RECEP DATA 228	3	4.0	4			20	1		27	28		1	20	8			TRUN RM 143	8	5.0
SPARE		0.2				20	1		29	30		1	20	8			DCJB RM 156	8	5.0
SUBFEED LUGS/BREAKER										SUBFEED LUGS/BREAKER									

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PANEL: EH (EXIST.REV)

EXISTING: YES  
 SECTIONS: 1  
 NEMA 3R:

GENERAL NOTES:  
 (1) ALL C.B.'S FEEDING HVAC EQUIPMENT TO BE HACR TYPE.  
 (2) ALL C.B.'S FEEDING ELEV EQUIP TO BE SHUNT-TRIP TYPE.  
 (3) ALL C.B.'S FEEDING ELEV EQUIP TO BE SIZED AS REQ'D BY MFR.  
 (4) ALL C.B.'S FEEDING HID LTG TO BE HID RATED.  
 (5) NO MULTIWIRE BRANCH CKTS ARE ALLOWED.  
 (6) NOT USED.

NOTES AND REFERENCE NOTES:  
 MFR = SIZE CB PER MFR. RECOMMENDATIONS.  
 \$ = NEW CB IN EXIST SPACE  
 & = REPLACE EXIST CB WITH NEW  
 SH = SHUNT TRIP C.B.  
 AF = ARC FAULT CB

OPTIONAL CALC NO  
 ACTUAL CONN LOAD 22 KVA 61 AMPS  
 DEMAND 19 KVA 51 AMPS  
 DIVERSITY 19 KVA 51 AMPS  
 TRANSFORMER SIZE KVA

SECTION 1 WITH MAINS WIDTH: 20 DEPTH: 6.00

LOAD										LOAD									
DESCRIPTION	CONN	TYPE	AMPS	AMPS	AMPS	C.B. AMPS	C.B. POLE	REF NOTE	CKT. NO.	CKT. NO.	REF NOTE	C.B. POLE	C.B. AMPS	AMPS	AMPS	AMPS	DESCRIPTION	CONN	TYPE
EXIST. LOAD	5	5.0	5			20	1		1	2		1	20	5			EXIST. LOAD	5	5.0
EXIST. LOAD	10	5.0	10			20	1		3	4		1	20	5			EXIST. LOAD	5	5.0
EXIST. LOAD	9	5.0	8			20	1		5	6		1	20	5			E-DAYROOM/CTRL RM DOORS	5	5.0
EXIST. LOAD	8	5.0	8			20	1		7	8		1	20	5			TRIG RM 325 BLDG F	5	5.0
EXIST. LOAD	11	5.0	11			20	1		9	10		1	20	5			DCJB RM 333 BLDG F	5	5.0
STAIRWELL C	5	5.0				20	1		11	12		1	20	5			DCJB RM 323 BLDG F	5	5.0
LTS-CORR-323	800	2.0	7			20	1		13	14		1	20	7			CONTROL ROOM WALL LTS	800	2.0
LTS CORR-425,433	800	2.0	7			20	1		15	16		1	20	8			EXIST. LOAD	8	5.0
DAYRM LTS 418,413,414	1200	2.0	10			20	1		17	18		1	20	8			EXIST. LOAD	8	5.0
A/C CONTROL	5	5.0	5			20	1		19	20		1	20	10			EXIST. LOAD	10	5.0
EXIST. LOAD	5	5.0	5			20	1		21	22		1	20	9			RECEPTS	6	4.0
RECEPTS	7	4.0	10			30	2	\$	23	24		1	20	9			RECEPTS	6	4.0
SPACE						1			27	28		1	20				SPACE		
SPACE						1			29	30		1	20				SPACE		
						1			31	32		1	20						
						1			33	34		1	20						
						1			35	36		1	20						
						1			37	38		1	20						
						1			39	40		1	20						
						1			41	42		1	20						
SUBFEED LUGS/BREAKER										SUBFEED LUGS/BREAKER									

COPYRIGHT ME, LLC 06/01/03 VERSION: C1a REVISED: 04/28/14

PANEL: EL (EXIST.REV)

EXISTING: YES  
 SECTIONS: 1  
 NEMA 3R:

GENERAL NOTES:  
 (1) ALL C.B.'S FEEDING HVAC EQUIPMENT TO BE HACR TYPE.  
 (2) ALL C.B.'S FEEDING ELEV EQUIP TO BE SHUNT-TRIP TYPE.  
 (3) ALL C.B.'S FEEDING ELEV EQUIP TO BE SIZED AS REQ'D BY MFR.  
 (4) ALL C.B.'S FEEDING HID LTG TO BE HID RATED.  
 (5) NO MULTIWIRE BRANCH CKTS ARE ALLOWED.  
 (6) NOT USED.

NOTES AND REFERENCE NOTES:  
 MFR = SIZE CB PER MFR. RECOMMENDATIONS.  
 \$ = NEW CB IN EXIST SPACE  
 & = REPLACE EXIST CB WITH NEW  
 SH = SHUNT TRIP C.B.  
 AF = ARC FAULT CB

OPTIONAL CALC NO  
 ACTUAL CONN LOAD 26 KVA 73 AMPS  
 DEMAND 23 KVA 65 AMPS  
 DIVERSITY 23 KVA 65 AMPS  
 TRANSFORMER SIZE KVA

SECTION 1 WITH MAINS WIDTH: 20 DEPTH: 6.00

LOAD										LOAD									
DESCRIPTION	CONN	TYPE	AMPS	AMPS	AMPS	C.B. AMPS	C.B. POLE	REF NOTE	CKT. NO.	CKT. NO.	REF NOTE	C.B. POLE	C.B. AMPS	AMPS	AMPS	AMPS	DESCRIPTION	CONN	TYPE
DAYROOM 544 LTS	1000	2.0	8			20	1		1	2		1	20				CELL DOORS RM 568	8	5.0
DAYROOM 545 LTS	1100	2.0	9			20	1		3	4		1	20	8			CELL DOORS RM 568	8	5.0
LTS CORR 546, 563, 568, 573	1000	2.0	8			20	1		5	6		1	20	8			CELL DOORS RM 568	8	5.0
A/C CONTROL POWER	8	5.0	8			20	1		7	8		1	20	8			CELL DOORS RM 568	8	5.0
CONTROL RM LTS	900	2.0	7			20	1		9	10		1	20	8			CELL DOORS RM 568	8	5.0

**ORANGE COUNTY  
 CORRECTIONS  
 COMPOUND  
 COMMUNICATIONS  
 UPGRADE**

**Revisions**

No.	Date	Description
△	07.21.14	Adendum #1

MPE PROJ#: 2014-040  
 Designed By: DAM  
 Drawn By: AG/  
 Checked By: DAM/CT  
 Issue Date: 6/10/2014  
 Drawing Scale: NONE  
 Drawing Title:

**ELECTRICAL  
 SCHEDULES**

**BID DOCUMENTS**

Drawing No.  
**E602**

COPYRIGHT ME, LLC 06/01/03      VERSION: C1a      REVISED: 04/28/14

VOLTS LN: 120  
 VOLTS PH: 208  
 PHASE: 3  
 MOUNTING: SURFACE  
 TYPE:      MFR: SQ D

PANEL: ER (EXIST.REV)  
 MLO(\*\*): 225      MCB TYPE:      EXISTING: YES  
 NEMA 3R:      SECTIONS: 2

GENERAL NOTES:  
 (1) ALL C.B.'S FEEDING HVAC EQUIPMENT TO BE HACR TYPE.  
 (2) ALL C.B.'S FEEDING ELEV EQUIP TO BE SHUNT-TRIP TYPE.  
 (3) ALL C.B.'S FEEDING ELEV EQUIP TO BE SIZED AS REQ'D BY MFR.  
 (4) ALL C.B.'S FEEDING HID LTG TO BE HID RATED.  
 (5) NO MULTIWIRE BRANCH CKTS ARE ALLOWED  
 (6) NOT USED.

NOTES AND REFERENCE NOTES:  
 MFR = SIZE CB PER MFR. RECOMMENDATIONS.  
 \$ = NEW CB IN EXIST SPACE  
 & = REPLACE EXIST CB WITH NEW  
 SH = SHUNT TRIP C.B.  
 AF = ARC FAULT CB

OPTIONAL CALC  
 ACTUAL CONN LOAD 34 KVA 94 AMPS  
 DEMAND 29 KVA 81 AMPS  
 DIVERSITY 29 KVA 81 AMPS  
 TRANSFORMER SIZE KVA

TOTAL AMPS A PH 107  
 TOTAL AMPS B PH 86  
 TOTAL AMPS C PH 87  
 INFO CODE:      (\*\*\*) NOTE: SIZE SHOWN IS MINIMUM ACCEPTABLE MLO AMPERAGE. INCREASE SIZE IF REQUIRED TO ACHIEVE QUANTITY OF POLES OR BREAKER SIZE/AIC RATING AS CALLED FOR IN SCHEDULE.

SECTION 1 WITH MAINS      WIDTH: 20      DEPTH: 6.00

LOAD										LOAD									
DESCRIPTION	CONN	TYPE	AMPS	AMPS	AMPS	C.B. AMPS	C.B. POLE	REF NOTE	CKT. NO.	CKT. NO.	REF NOTE	C.B. POLE	C.B. AMPS	AMPS	AMPS	AMPS	DESCRIPTION	CONN	TYPE
RECPTS 1ST FL CONSOLE	6	4.0	9			20	1		1	2		1	20	7	10		CNTRM RECPTS 1ST FL	5	4.0
LTS 1ST FL CNTRL RM	800	2.0		7		20	1		3	4		1	20				CNTRM RECPTS 1ST FL	7	4.0
STEP LTS 1ST FL	800	2.0			7	20	1		5	6		1	20		9		CNTRM RECPTS 1ST FL	6	4.0
STEP LTS 1ST FL	600	2.0		5		20	1		7	8		1	20	12			CNTRL RM RECPTS 3RD FL	8	4.0
CNTRL RM LTS 3RD FL	500	2.0		4		20	1		9	10		1	20	12			CNTRL RM RECPTS 3RD FL	8	4.0
RECPTS 1ST FL CONSOLE	4	4.0			6	20	1		11	12		1	20		9		CNTRL RM RECPTS 3RD FL	6	4.0
STP LTS 3RD FL	600	2.0		5		20	1		13	14		1	20	5			CCTV MONITORS 1ST FL	5	5.0
STP LTS 3RD FL	500	2.0		4		20	1		15	16		1	20				1ST FL CONSOLE - SPARE CKT		0.2
CNTRL RM LTS 3RD FL	500	2.0		4		20	1		17	18		1	20		10		3RD FL CONSOLE RECPTS	7	4.0
CCTV MONITORS 3RD FL	5	5.0		5		20	1		19	20		1	20	12			3RD FL CONSOLE RECPTS	8	4.0
CCTV MONITORS 1ST FL	5	5.0		5		20	1		21	22		1	20		5		DCJB	5	5.0
TRAM IN RM 143	5	5.0			5	20	1		23	24		1	20				3RD FL CONSOLE - SPARE CKT		0.2
IC/D IN RM 143	5	5.0		5		20	1		25	26		1	20	4			1ST FL CCTV MONITORS	4	5.0
VISITATION LTS	600	2.0		5		20	1		27	28		1	20				SPARE		0.2
STEP LTS 1ST FL	500	2.0		4		20	1		29	30		1	20		5		3RD FL CCTV MONITORS	5	5.0
1ST FL CORR LTS	650	2.0		5		20	1		31	32		1	20	5			3RD FL CCTV MONITORS	5	5.0
W. SEC VEST LTS	500	2.0		4		20	1		33	34		1	20				SPARE		0.2
2ND FL CORR LTS	500	2.0		4		20	1		35	36		1	20		5		DCJB	5	5.0
DAYROOM LTS	500	2.0		4		20	1		37	38		1	20	5			DCJB	5	5.0
DAYROOM LTS	800	2.0		7		20	1		39	40		1	20		5		DCJB	5	5.0
1ST FL CNTRL RM LTS	800	2.0		7		20	1		41	42		1	20				DCJB	5	5.0
SUBFEED LUGS/BREAKER										SUBFEED LUGS/BREAKER									
S.F.										S.F.									
S.F.										S.F.									
S.F.										S.F.									

SECTION 2 (ER (EXIST.REV))      WIDTH: 20.0      DEPTH: 6.00

LOAD										LOAD									
DESCRIPTION	CONN	TYPE	AMPS	AMPS	AMPS	C.B. AMPS	C.B. POLE	REF NOTE	CKT. NO.	CKT. NO.	REF NOTE	C.B. POLE	C.B. AMPS	AMPS	AMPS	AMPS	DESCRIPTION	CONN	TYPE
ELEV LTS	500	2.0		4		20	1		43	44		1	20				SPARE		0.2
ELEV LTS	500	2.0		4		20	1		45	46		1	20				SPARE		0.2
FA PANEL RM 142	5	5.0			5	20	1		47	48		1	20				SPARE		0.2
SPARE	20	0.2				20	1		49	50		2	30	9	9		RECEPTS	6	4.0
SPARE	20	0.2				20	1		51	52		1	20				RECEPTS	6	4.0
ROOF GFCI	1	4.0			1	20	1		53	54		1					SPARE		
CU-3 AIC ELV	5	5.0		5		15	2		55	56		1					SPARE		
SPACE	5	5.0		5					57	58		1					SPARE		
SPACE	1								59	60		1					SPARE		
SPACE	1								61	62		1					SPARE		
SPACE	1								63	64		1					SPARE		
SPACE	1								65	66		1					SPARE		
SPACE	1								67	68		1					SPARE		
SPACE	1								69	70		1					SPARE		
SPACE	1								71	72		1					SPARE		
									73	74									
									75	76									
									77	78									
									79	80									
									81	82									
									83	84									
SUBFEED LUGS/BREAKER										SUBFEED LUGS/BREAKER									
S.F.										S.F.									
S.F.										S.F.									
S.F.										S.F.									

CREATE DATE: 6/12/2014 2:08:01 PM      LAST SAVED: 7/21/2014 3:26:16 PM      LAST SAVED BY: JUANIS

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 PLOT DATE: 7/21/2014 3:30:25 PM      MATERN PROFESSIONAL ENGINEERING



**ORANGE COUNTY CORRECTIONS COMPOUND COMMUNICATIONS UPGRADE**

**Revisions**

No.	Date	Description
△	07.21.14	Adendum #1

MPE PROJ#: 2014-040

Designed By: JEL/DAM

Drawn By: AG/JEL/DAM

Checked By: DAM/CT

Issue Date: 6/10/2014

Drawing Scale: NONE

Drawing Title:

**SYSTEMS RISER**

**BID DOCUMENTS**

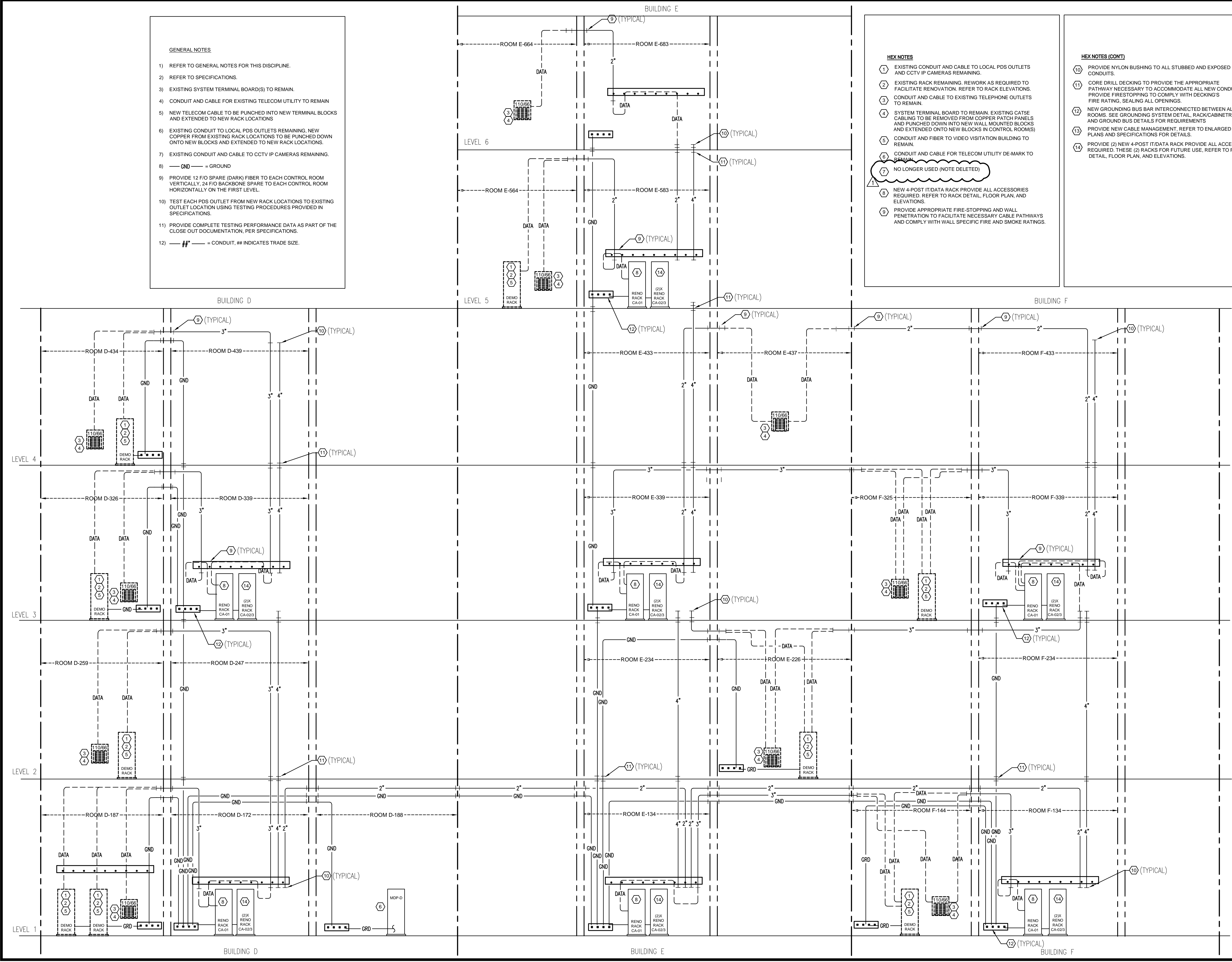
Drawing No.

**E801**

- GENERAL NOTES**
- REFER TO GENERAL NOTES FOR THIS DISCIPLINE.
  - REFER TO SPECIFICATIONS.
  - EXISTING SYSTEM TERMINAL BOARD(S) TO REMAIN.
  - CONDUIT AND CABLE FOR EXISTING TELECOM UTILITY TO REMAIN
  - NEW TELECOM CABLE TO BE PUNCHED INTO NEW TERMINAL BLOCKS AND EXTENDED TO NEW RACK LOCATIONS
  - EXISTING CONDUIT TO LOCAL PDS OUTLETS REMAINING, NEW COPPER FROM EXISTING RACK LOCATIONS TO BE PUNCHED DOWN ONTO NEW BLOCKS AND EXTENDED TO NEW RACK LOCATIONS.
  - EXISTING CONDUIT AND CABLE TO CCTV IP CAMERAS REMAINING.
  - GND = GROUND
  - PROVIDE 12 F/O SPARE (DARK) FIBER TO EACH CONTROL ROOM VERTICALLY, 24 F/O BACKSPOKE SPARE TO EACH CONTROL ROOM HORIZONTALLY ON THE FIRST LEVEL.
  - TEST EACH PDS OUTLET FROM NEW RACK LOCATIONS TO EXISTING OUTLET LOCATION USING TESTING PROCEDURES PROVIDED IN SPECIFICATIONS.
  - PROVIDE COMPLETE TESTING PERFORMANCE DATA AS PART OF THE CLOSE OUT DOCUMENTATION, PER SPECIFICATIONS.
  - ## = CONDUIT, # INDICATES TRADE SIZE.

- HEX NOTES**
- EXISTING CONDUIT AND CABLE TO LOCAL PDS OUTLETS AND CCTV IP CAMERAS REMAINING.
  - EXISTING RACK REMAINING, REWORK AS REQUIRED TO FACILITATE RENOVATION, REFER TO RACK ELEVATIONS.
  - CONDUIT AND CABLE TO EXISTING TELEPHONE OUTLETS TO REMAIN.
  - SYSTEM TERMINAL BOARD TO REMAIN, EXISTING CATSE CABLING TO BE REMOVED FROM COPPER PATCH PANELS AND PUNCHED DOWN INTO NEW WALL MOUNTED BLOCKS AND EXTENDED ONTO NEW BLOCKS IN CONTROL ROOM(S)
  - CONDUIT AND FIBER TO VIDEO VISITATION BUILDING TO REMAIN
  - CONDUIT AND CABLE FOR TELECOM UTILITY DE-MARK TO REMAIN
  - NO LONGER USED (NOTE DELETED)
  - NEW 4-POST IT/DATA RACK PROVIDE ALL ACCESSORIES REQUIRED, REFER TO RACK DETAIL, FLOOR PLAN, AND ELEVATIONS.
  - PROVIDE APPROPRIATE FIRE-STOPPING AND WALL PENETRATION TO FACILITATE NECESSARY CABLE PATHWAYS AND COMPLY WITH WALL SPECIFIC FIRE AND SMOKE RATINGS.

- HEX NOTES (CONT)**
- PROVIDE NYLON BUSHING TO ALL STUBBED AND EXPOSED CONDUITS.
  - CORE DRILL DECKING TO PROVIDE THE APPROPRIATE PATHWAY NECESSARY TO ACCOMMODATE ALL NEW CONDUITS, PROVIDE FIRESTOPPING TO COMPLY WITH DECKING'S FIRE RATING, SEALING ALL OPENINGS.
  - NEW GROUNDING BUS BAR INTERCONNECTED BETWEEN ALL ROOMS, SEE GROUNDING SYSTEM DETAIL, RACK/CABINETY AND GROUND BUS DETAILS FOR REQUIREMENTS
  - PROVIDE NEW CABLE MANAGEMENT, REFER TO ENLARGED PLANS AND SPECIFICATIONS FOR DETAILS.
  - PROVIDE (2) NEW 4-POST IT/DATA RACK PROVIDE ALL ACCESSORIES REQUIRED, THESE (2) RACKS FOR FUTURE USE, REFER TO RACK DETAIL, FLOOR PLAN, AND ELEVATIONS.



CREATE DATE: 2/26/2014 6:15:21 PM LAST SWMD: 7/21/2014 3:18:08 PM LAST SWMD BY: JANDIS  
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 MATERN PROFESSIONAL ENGINEERING PLOT DATE: 7/21/2014 3:30:18 PM

CREATE DATE: 3/11/2014 3:14:43 PM LAST SAVE: 6/10/2014 10:03:57 AM LAST SAVED BY: JUNDIS

FILE NAME: I:\2014\_bob\2014-040-DC Corrections Compound Comm Upgrade Design\CD\2014-040-ES02.dwg PLOT DATE: 6/13/2014 8:01:51 AM

MATERN PROFESSIONAL ENGINEERING

**ORANGE COUNTY CORRECTIONS COMPOUND COMMUNICATIONS UPGRADE**

Revisions

No.	Date	Description

MPE PROJ#: 2014-040

Designed By: JEL/DAM

Drawn By: AG/JEL/DAM

Checked By: DAM/CT

Issue Date: 6/10/2014

Drawing Scale: NONE

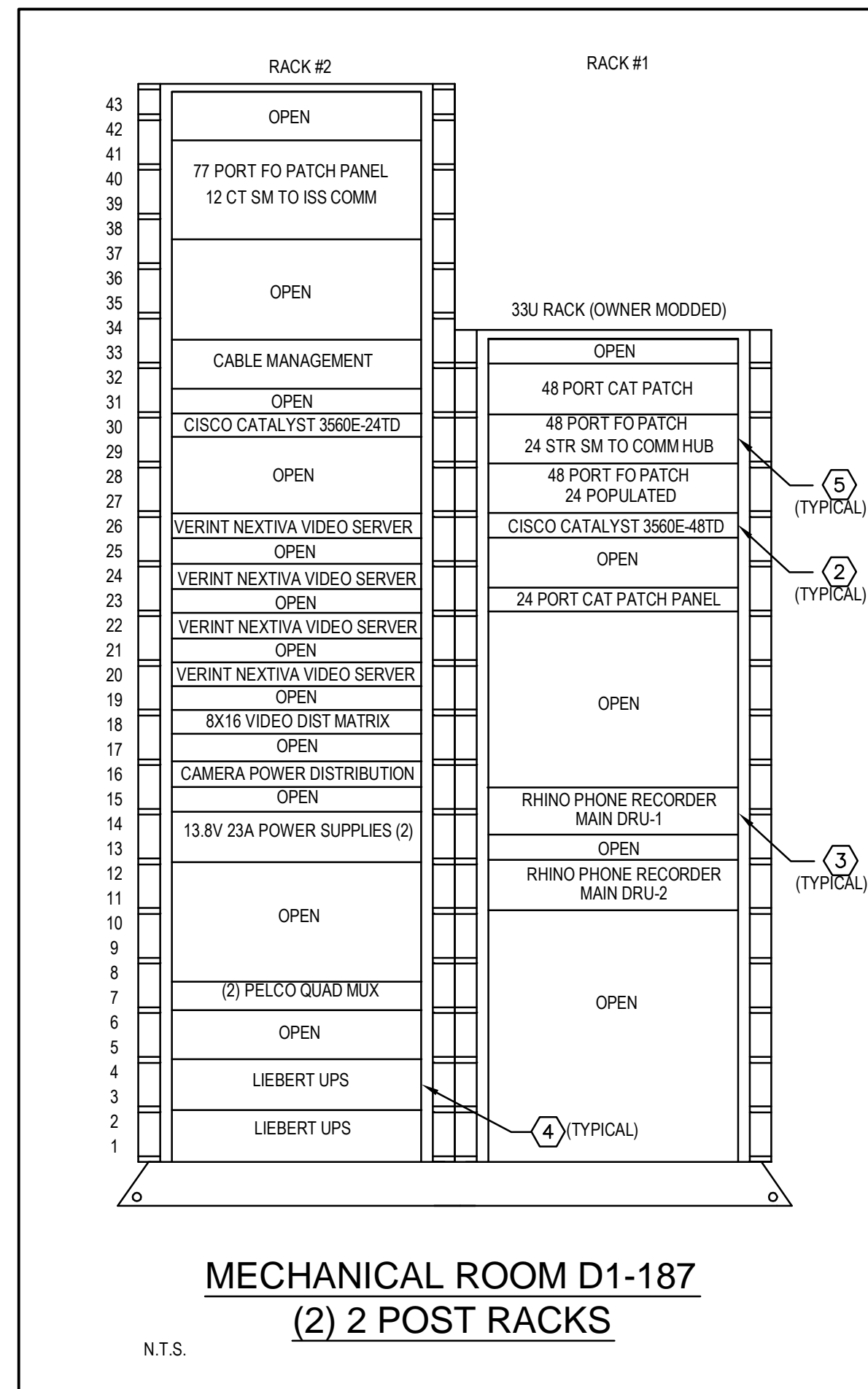
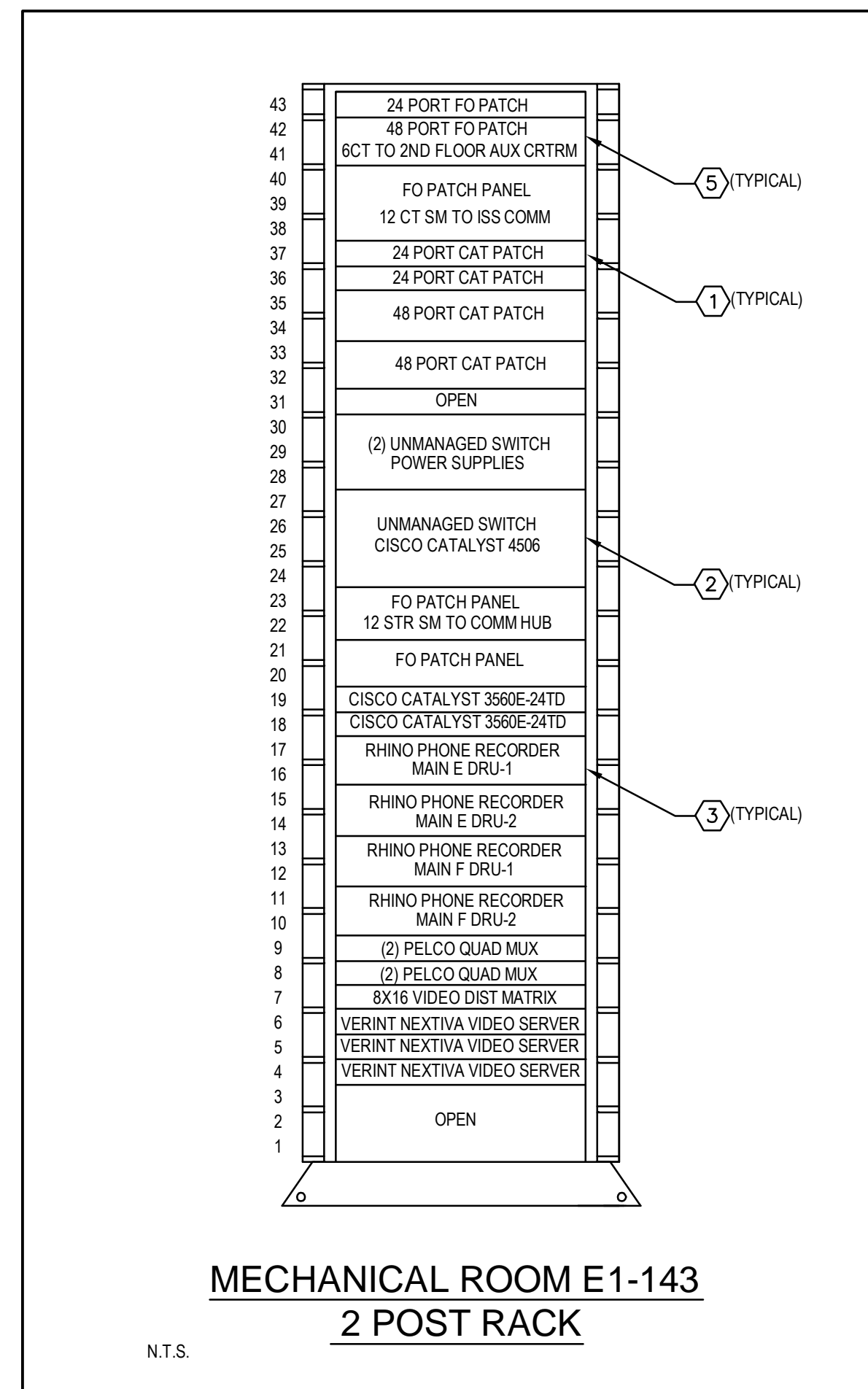
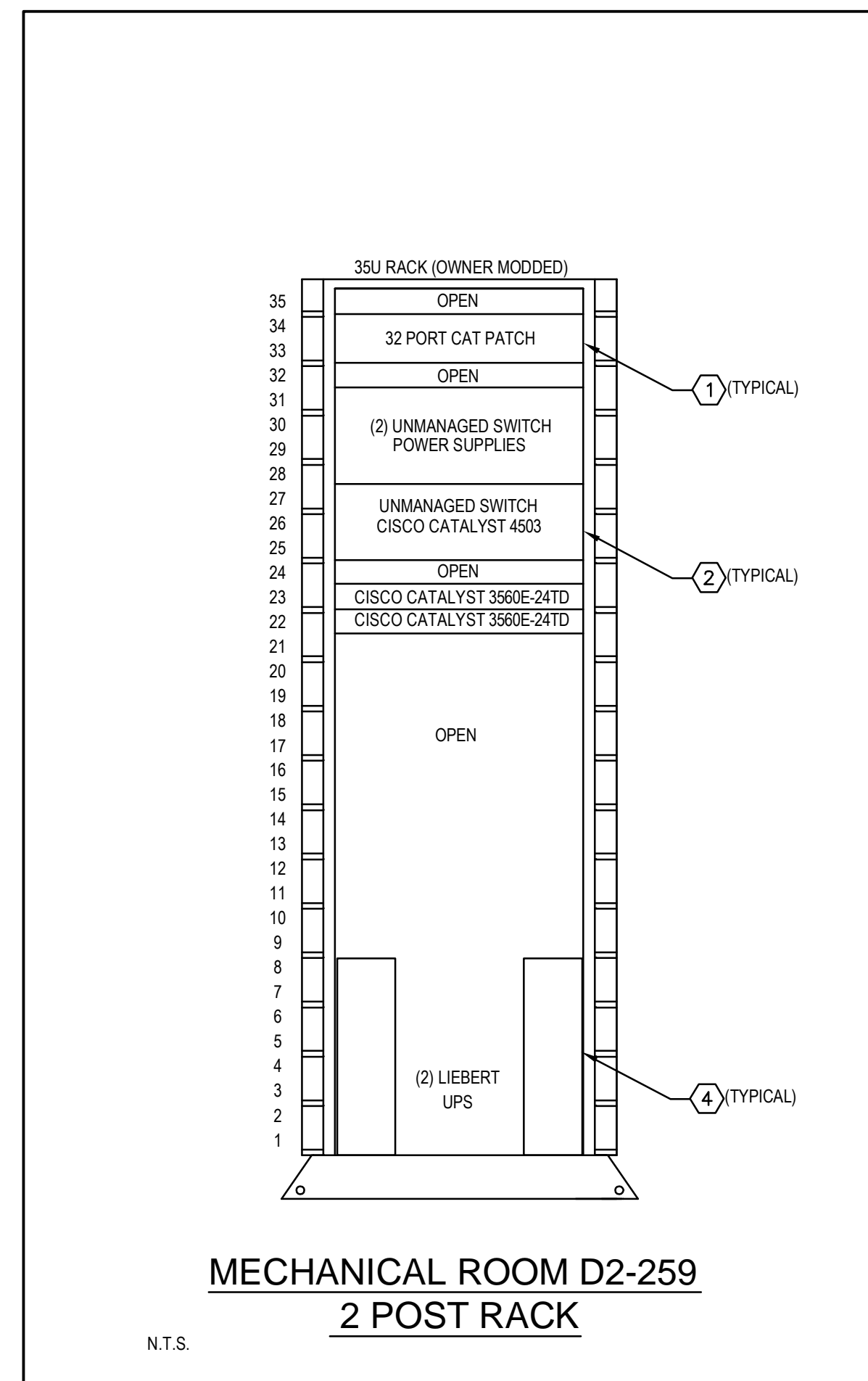
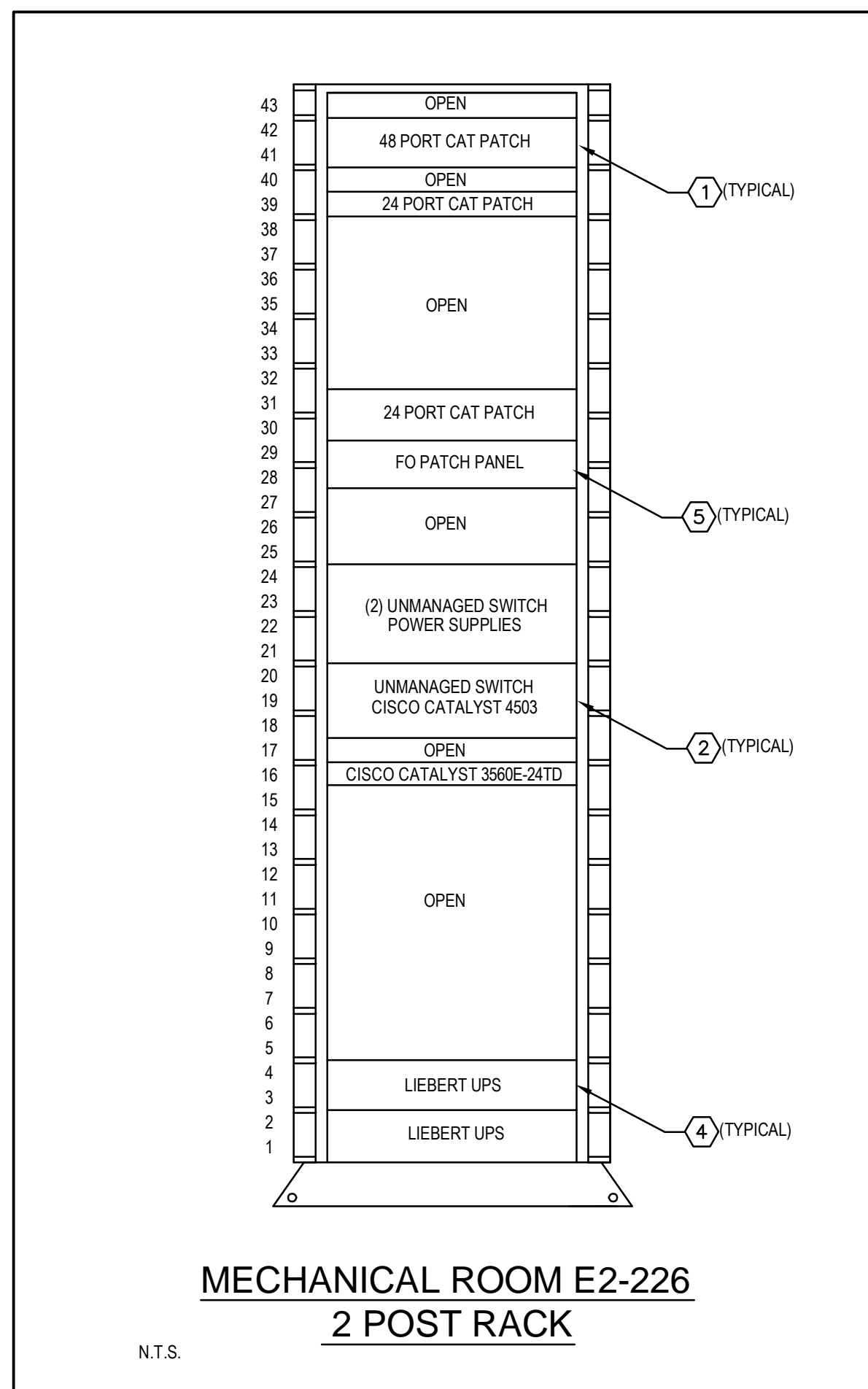
Drawing Title:

EXISTING RACKS

BID DOCUMENTS

Drawing No.

E802

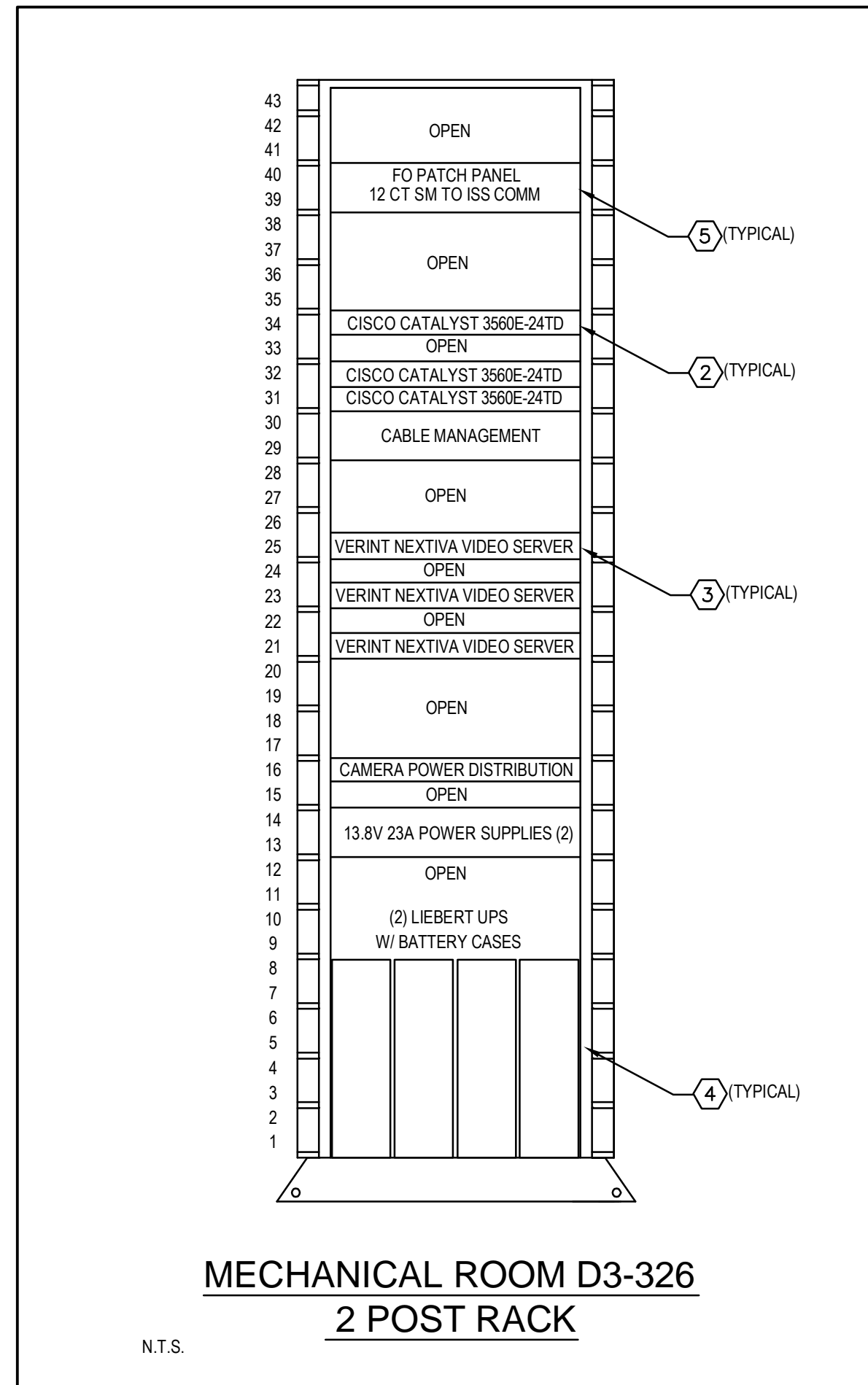
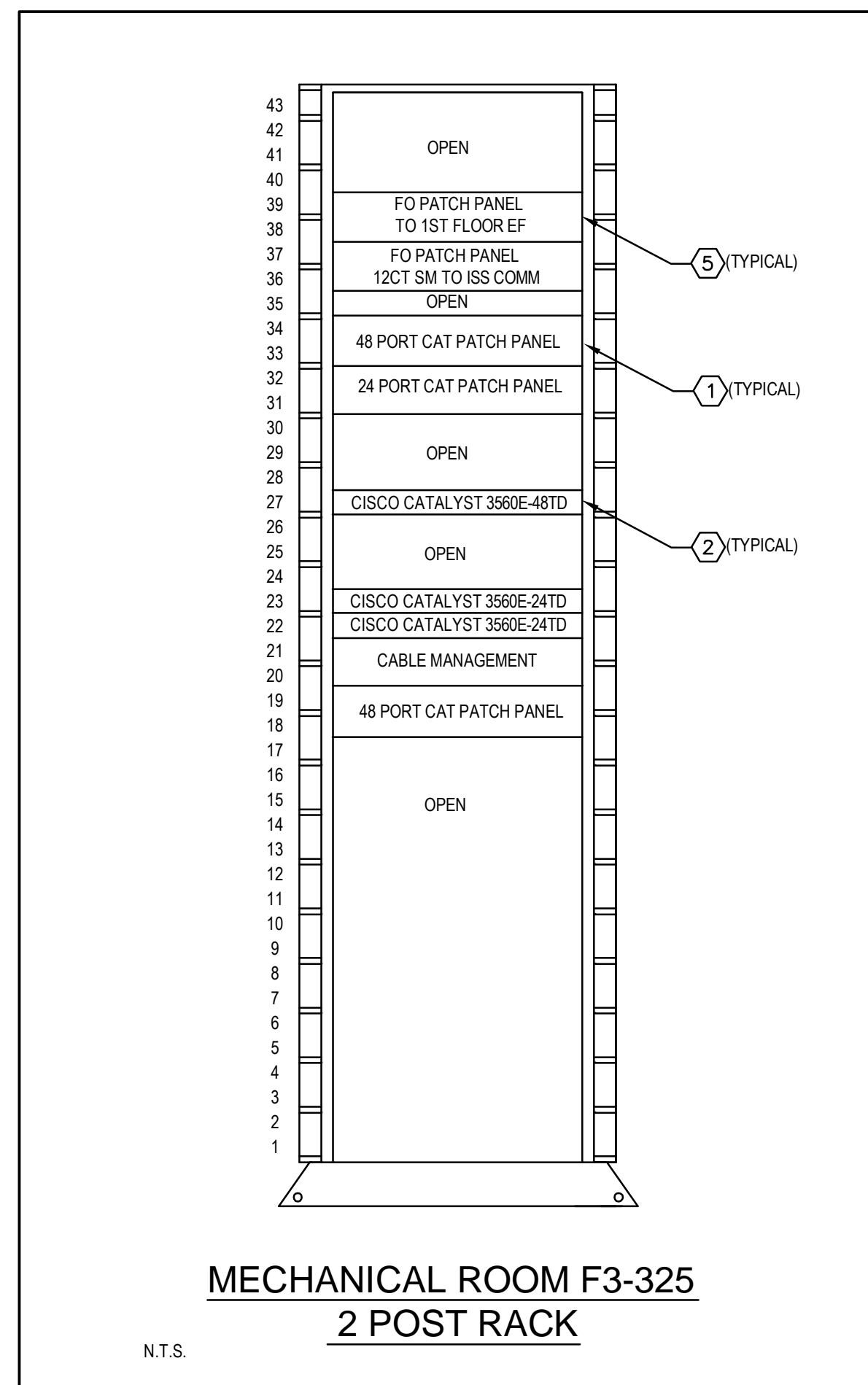
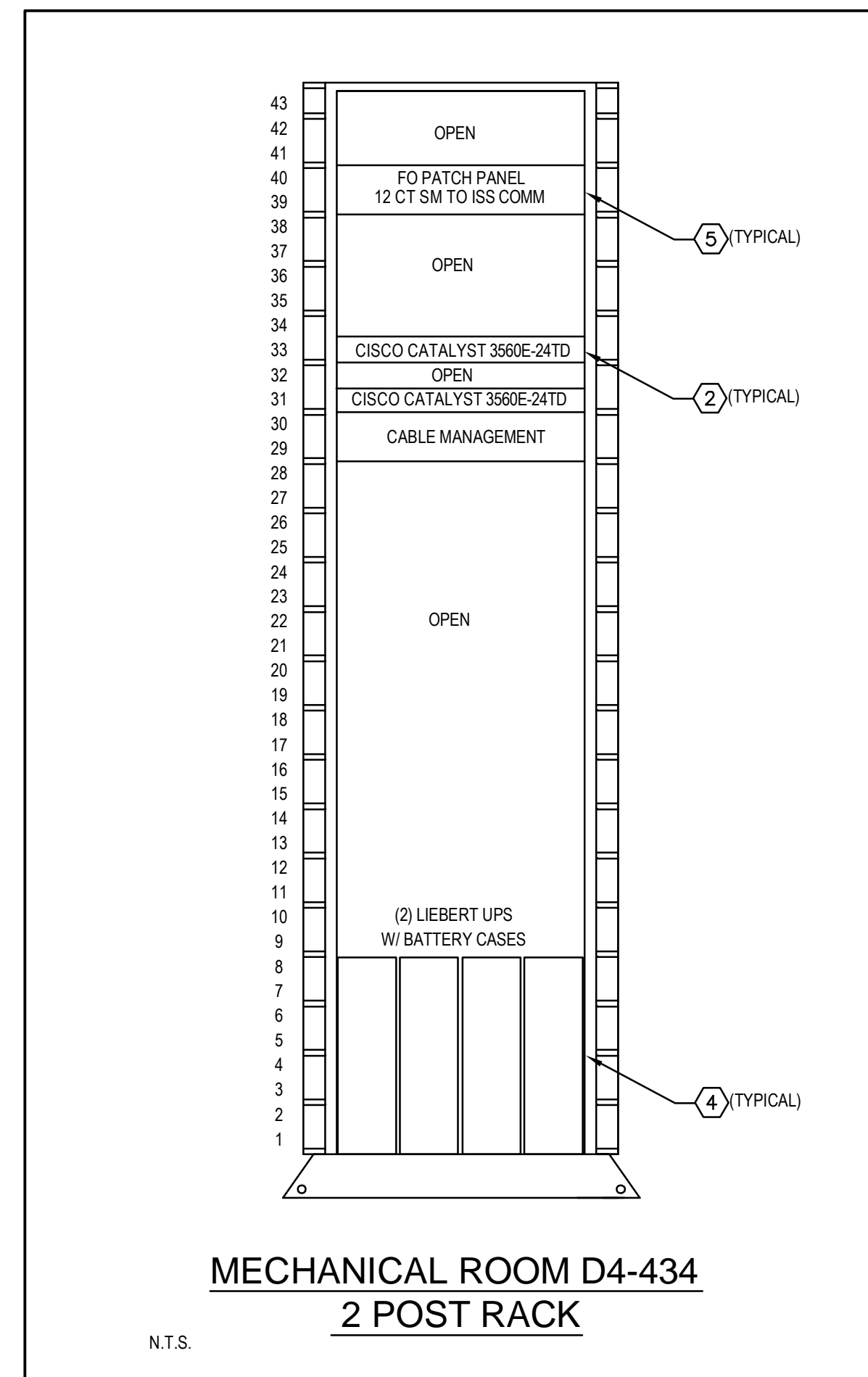


GENERAL NOTES

- REFER TO GENERAL NOTES FOR THIS DISCIPLINE.
- REFER TO SPECIFICATIONS.
- ALL HEX OR CIRCLE NOTES NOT NECESSARILY USED ON ALL SHEETS.
- EXISTING CONDUIT ROUTING IS UNKNOWN.
- WHERE CONDUIT ROUTING IS SHOWN, THE CONDUITS ARE SHOWN FOR DIAGRAMMATIC PURPOSES AND ARE NOT NECESSARILY REPRESENTATIVE OF EXACT PLACEMENT.
- RELOCATE/REWORK EXISTING ELECTRICAL AS REQUIRED TO FACILITATE RENOVATION.
- CONTRACTOR SHALL MAINTAIN CONTINUITY TO EXISTING FIXTURES AND/OR DEVICES REMAINING.
- REFER TO RACK ELEVATIONS.
- COORDINATE WITH OC CORRECTIONS FACILITY I.T. FOR ALL EQUIPMENT/OUTLET DEMOLITION.
- ALL F.O. CABLE SERVICE LOOPS TO BE COILED ON DESIGNATED SECTION OF TTB.
- REMOVE COMPLETE ALL EQUIPMENT ON TTB NOT IN USE.

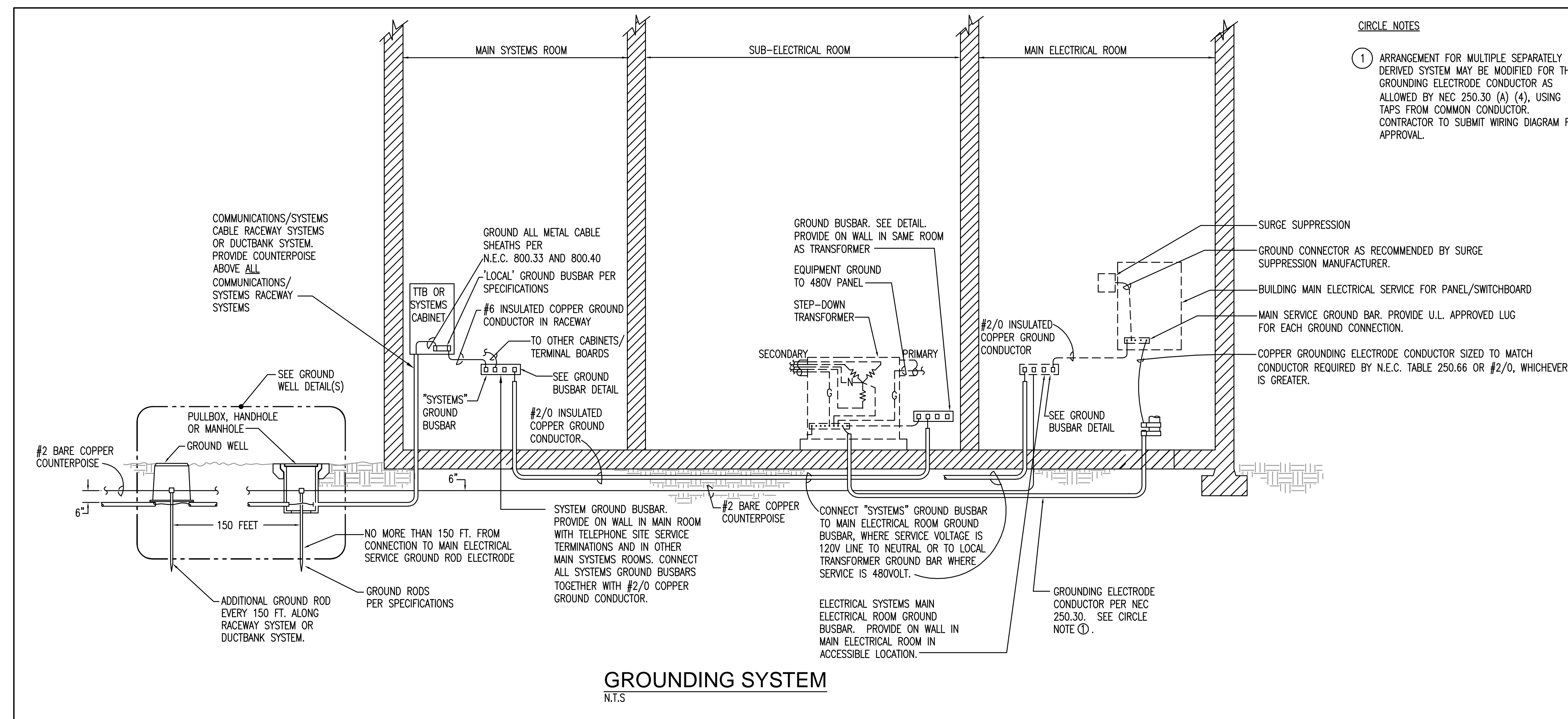
HEX NOTES

- PATCH PANEL TO BE REMOVED. EXISTING CABLING TO BE RELOCATED TO NEW WALL MOUNTED PUNCH DOWN BLOCK, NEW CABLING TO BE ROUTED TO ASSOCIATED NEW DATA RACK IN CONTROL ROOM.
- EXISTING VOICE/DATA ELECTRONICS TO BE REPURPOSED IN NEW DATA RACKS OR FOR FUTURE USE. CONTRACTOR RESPONSIBLE FOR THE REMOVAL AND STORAGE OF EXISTING VOICE/DATA ELECTRONICS UNTIL RELEASED TO OWNER.
- EXISTING ACTIVE NETWORK ELECTRONICS FOR THE CCTV AND INMATE PHONE SYSTEM ARE TO REMAIN INTACT AND UNTOUCHED, ANY LAN CONNECTIVITY FOR THESE SYSTEMS WILL BE RELOCATED AND RECONNECTED INTO THE NEW DATA RACKS.
- UPS DEVICES IN THESE RACKS WILL REMAIN INTACT. THE OWNER WILL PROVIDE NEW UPS UNITS TO BE USED IN THE NEW DATA RACKS IN THE CONTROL ROOMS.
- FIBER OPTIC DISTRIBUTION WILL BE REMOVED FROM THE RACKS AND PLACED ONTO WALL MOUNTED FIBER DISTRIBUTION ENCLOSURES (Liu's). EXISTING CCTV AND INMATE PHONE SYSTEMS USING EXISTING FIBER OPTIC CABLING WILL HAVE NEW STRANDS RAN FROM THE NEW WALL MOUNTED ENCLOSURES TO THE EXISTING RACK MOUNTED DEVICES.





**ORANGE COUNTY  
 CORRECTIONS  
 COMPOUND  
 COMMUNICATIONS  
 UPGRADE**



**Revisions**

No.	Date	Description

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 Drawn By: AG/JEL/DAM  
 Checked By: DAM/CL  
 Issue Date: 6/10/2014  
 Drawing Scale: NONE  
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**ELECTRICAL  
 DETAILS**

**BID DOCUMENTS**

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**E901**



**ORANGE COUNTY CORRECTIONS COMPOUND COMMUNICATIONS UPGRADE**

**Revisions**

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Checked By: DAM/CT

Issue Date: 6/10/2014

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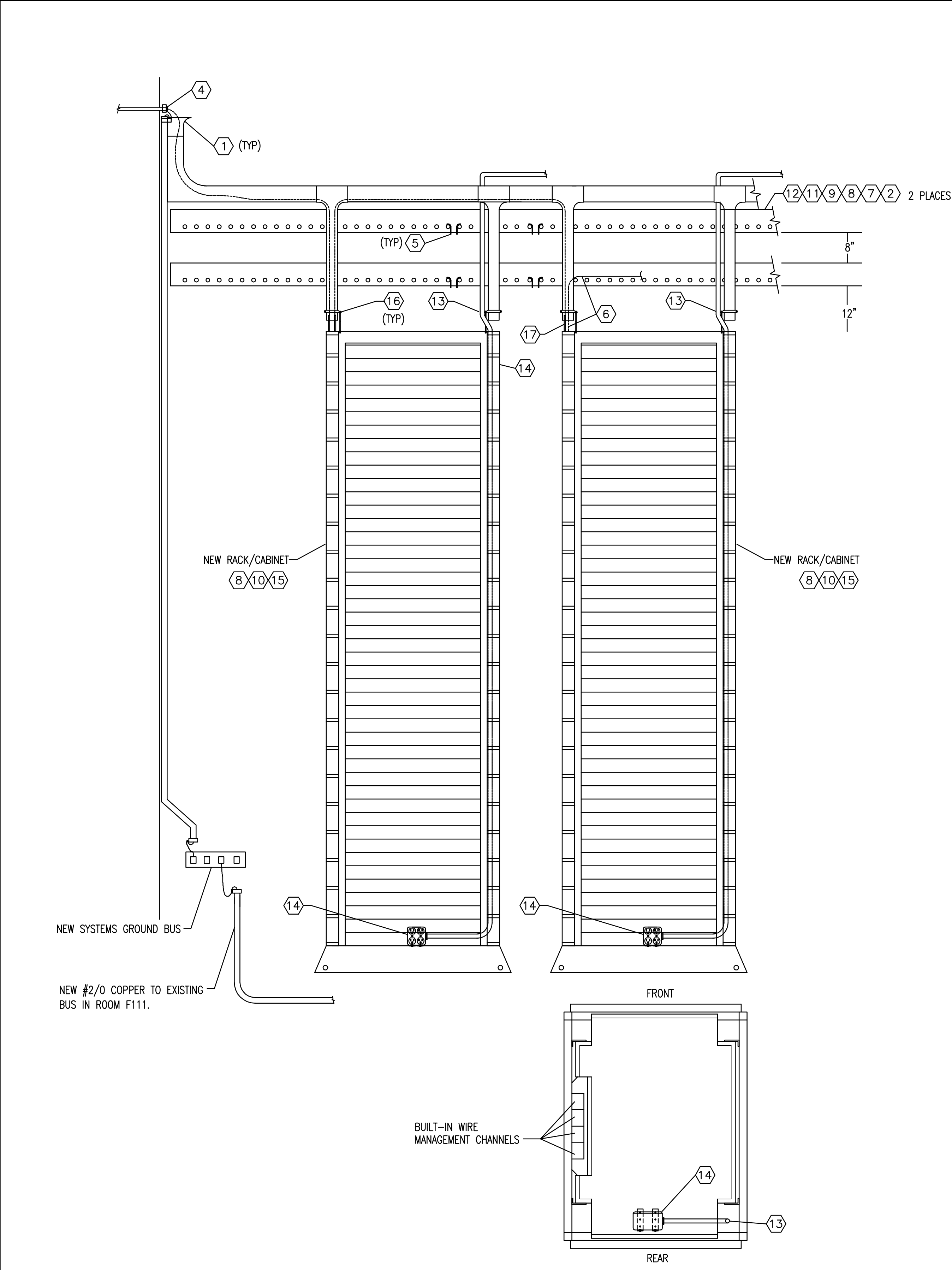
Drawing Title:

**ELECTRICAL DETAILS**

**BID DOCUMENTS**

Drawing No.

**E902**

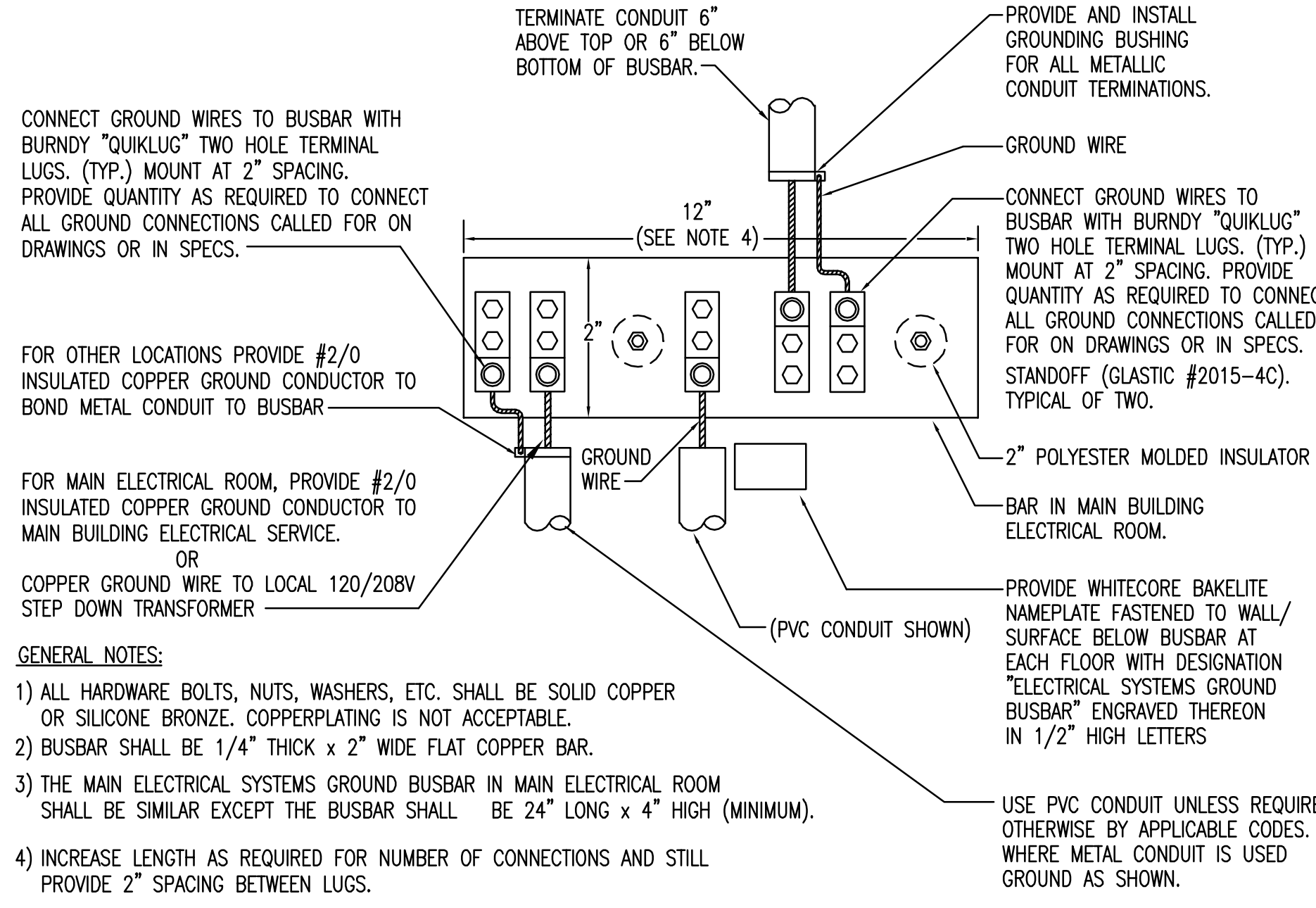


**RACK/CABINET TYPICAL DETAIL**

NTS

**HEX NOTES**

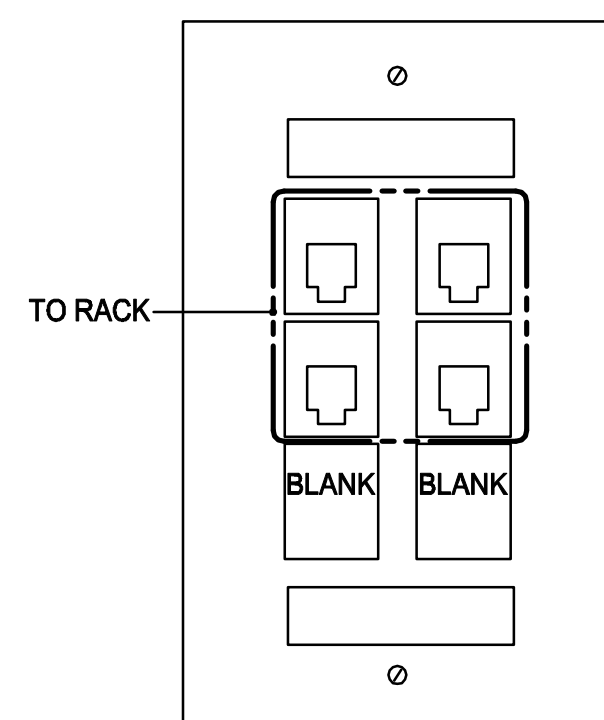
- 1) PROVIDE TRUMPETED/FLARED ENDS WHEREVER CABLING ENTERS FIBER TROUGH.
- 2) UPPER CABLE TRAY. DEDICATED FOR BACKBONE COPPER AND FIBER.
- 3) LOWER CABLE TRAY. DEDICATED FOR COPPER AND FIBER PATCH CABLES.
- 4) BOND METAL RACEWAY TO LOCAL GROUND BUS BAR.
- 5) CABLE DROP OUTS ON EACH SIDE OF CABINET/RACK.
- 6) COPPER AND/OR FIBER CABLES FROM CABLE TRAYS.
- 7) PROVIDE CABLE DROP-OUTS AT ALL LOCATIONS WHERE CABLE DROPS TO LOCATION BELOW.
- 8) BOND EQUIPMENT AND CONNECT TO LOCAL GROUND BUS IN ROOM WITH #6 GROUND WIRE.
- 9) LOCATE IN EXACT LOCATION AS DIRECTED BY OWNER 'IT'.
- 10) EACH RACK/CABINET TO HAVE VERTICAL GROUND BAR FULL HEIGHT (MINUS 6 INCHES). BOND TO RACK.
- 11) SUPPORT FROM STRUCTURE WITH ALL-THREAD RODS, ETC. AS RECOMMENDED BY CABLE TRAY MANUFACTURER, NEMA, NEC, AND SPEC.
- 12) LADDER CABLE TRAY WITH FENCES. PROVIDE CABLE DROP-OUTS AT ALL LOCATIONS WHERE CABLES ARE TO DROP TO RACK/CABINETS.
- 13) POWER CIRCUIT IN CONDUIT. ROUTE DOWN INSIDE CABINET IN REAR LEFT CORNER ON SIDE NEAR REAR DOOR. MAINTAIN CLEARANCE OF ALL 10/32 RAIL HOLES.
- 14) TWO (2) 20 AMP DUPLEX RECEPTACLE. MOUNT IN SURFACE BOX TO REAR BOTTOM OF CABINET WITH UNISTRUT, BRACKETS, BOLTS ETC. PROVIDE 20A, 208V, 1Ø RECEPTACLE WHERE REQUIRED. IN LIEU OF 20A, 120V RECEPTACLE COORDINATE WITH OWNER PRIOR TO BID. PROVIDE #10 WIRE IN 3/4" C. TO NEAREST NORMAL 120/208V PANEL. PROVIDE/INSTALL/CONNECT CIRCUIT BREAKER.
- 15) PROVIDE/INSTALL BUSHED CABLE NIPPLE ON TOP OF CABINET. QUANTITY AS REQUIRED. (4) 2" C. MINIMUM.
- 16) VERTICALLY ALIGN FIBER TROUGH 'I' DOWNSPOUT WITH CABINET CABLE MANAGEMENT SYSTEM SO THERE ARE NO BENDS IN CABLE.
- 17) FLEX CONNECTOR ASSEMBLY BETWEEN DOWNSPOUT AND VERTICAL WIRE MANAGEMENT AREA OF RACK/CABINET, WITH APPROPRIATE CABLES.



**GROUND BUSBAR DETAIL**

N.T.S.

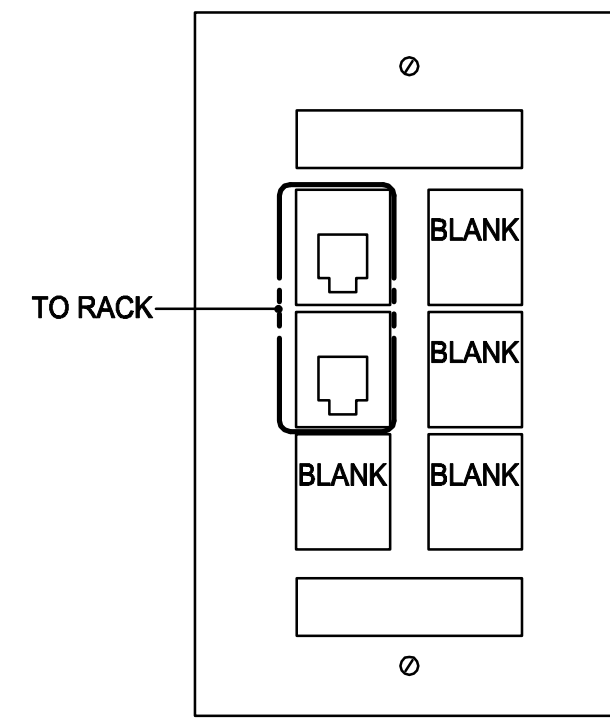
- GENERAL NOTES:**
- 1) ALL HARDWARE BOLTS, NUTS, WASHERS, ETC. SHALL BE SOLID COPPER OR SILICONE BRONZE. COPPERPLATING IS NOT ACCEPTABLE.
  - 2) BUSBAR SHALL BE 1/4" THICK x 2" WIDE FLAT COPPER BAR.
  - 3) THE MAIN ELECTRICAL SYSTEMS GROUND BUSBAR IN MAIN ELECTRICAL ROOM SHALL BE SIMILAR EXCEPT THE BUSBAR SHALL BE 24" LONG x 4" HIGH (MINIMUM).
  - 4) INCREASE LENGTH AS REQUIRED FOR NUMBER OF CONNECTIONS AND STILL PROVIDE 2" SPACING BETWEEN LUGS.



NOTES:  
REFER TO SPECIFICATIONS  
FOR MANUFACTURER, MODEL  
NUMBER, COLOR, ETC.

**4 PORT DATA OUTLET**  
N.T.S.

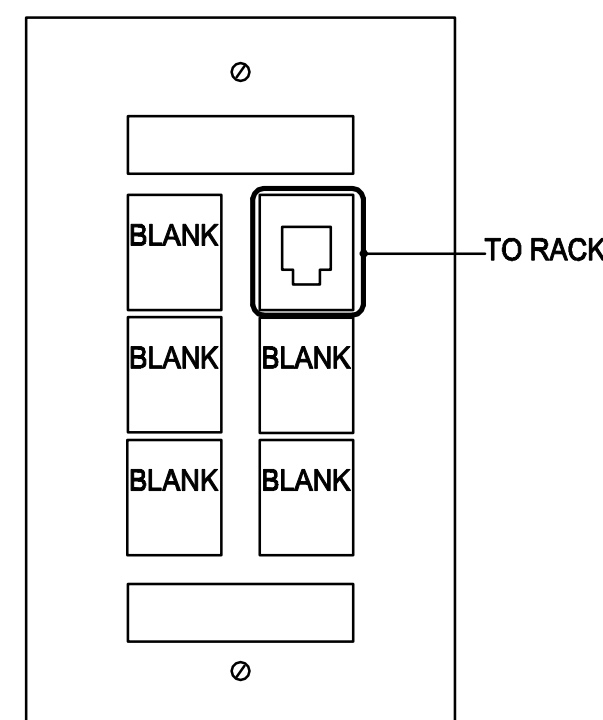
4PB



NOTES:  
REFER TO SPECIFICATIONS  
FOR MANUFACTURER, MODEL  
NUMBER, COLOR, ETC.

**2 PORT DATA OUTLET**  
N.T.S.

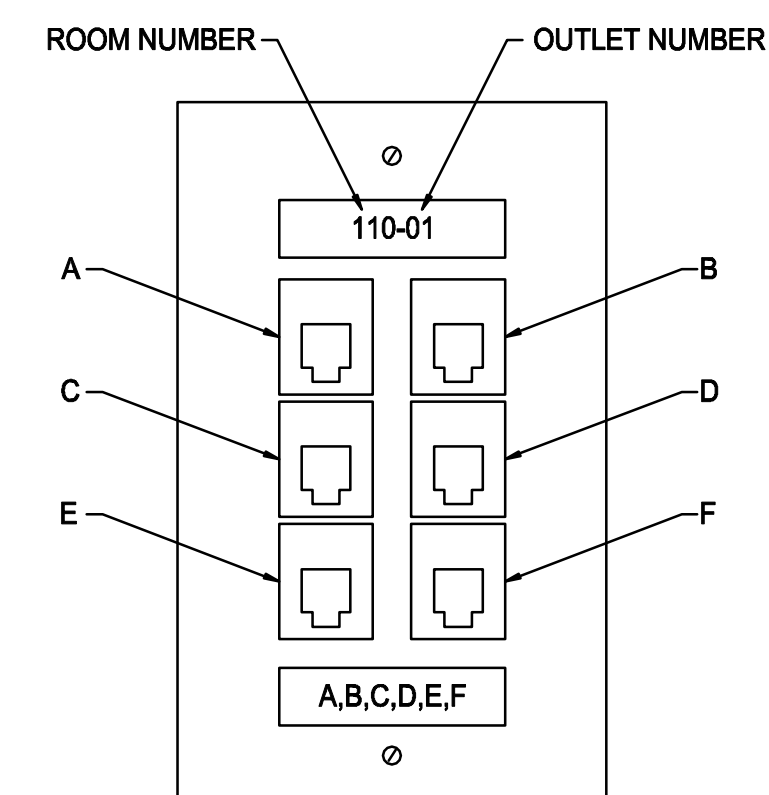
2P



NOTES:  
REFER TO SPECIFICATIONS  
FOR MANUFACTURER, MODEL  
NUMBER, COLOR, ETC.

**1 PORT DATA OUTLET**  
N.T.S.

1P



NOTES:  
REFER TO SPECIFICATIONS  
FOR MANUFACTURER, MODEL  
NUMBER, COLOR, ETC.

**TYPICAL LABELING FOR  
COMMUNICATION OUTLET**  
N.T.S.

**F CONNECTOR**  
FOR CATV DISTRIBUTION SYSTEM

**DATA (\*)**  
RJ45 FOR DATA TO PATCH PANEL  
IN SYSTEMS RACK AS NOTED,  
LABEL PER PATCH POSITION (\*).

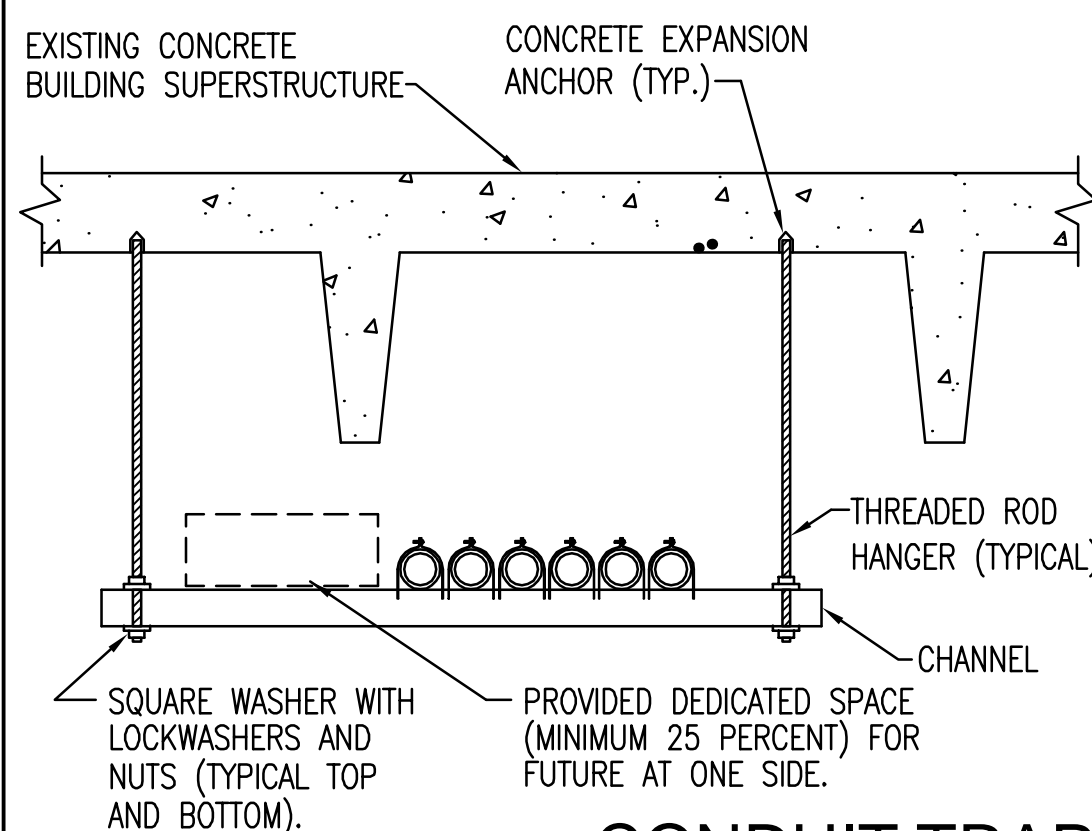
**WIFI (\*)**  
RJ45 FOR WIFI TO PATCH PANEL  
IN SYSTEMS RACK IT-17.  
LABEL PER PATCH POSITION (\*).

**AV**  
RJ45 FOR AV SYSTEM TO MATRIX SWITCH  
IN SYSTEMS RACK BS-03.

**COMMUNICATION OUTLETS LEGEND**

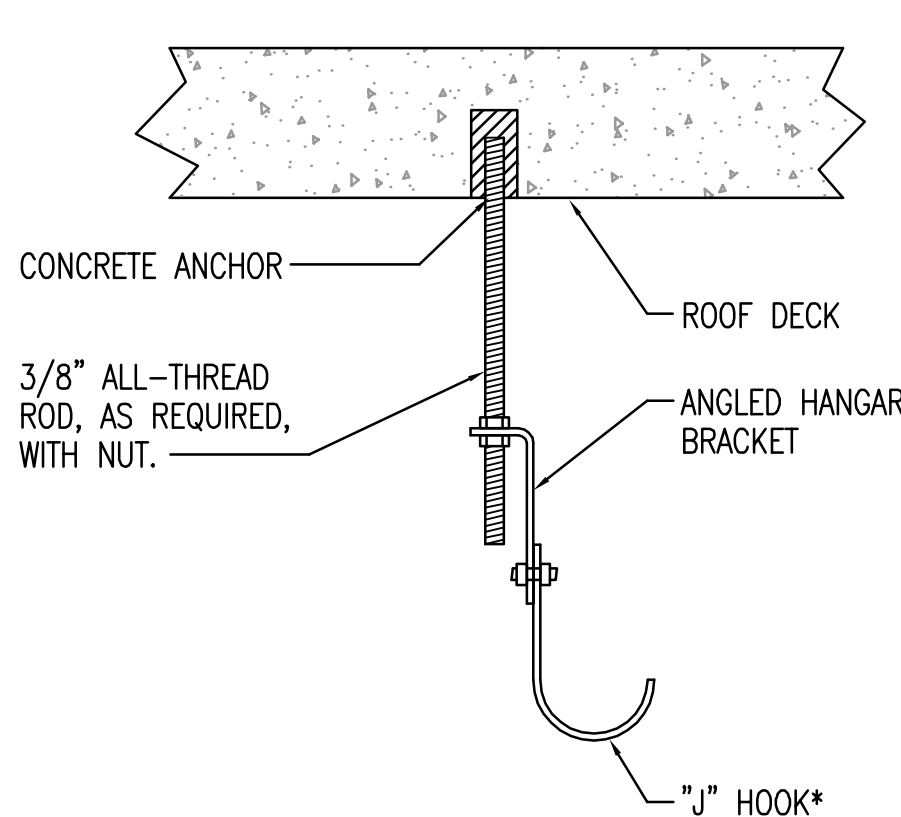
**GENERAL NOTES**

- 1) REFER TO CONDUIT SPECIFICATION SECTION (16111).
- 2) REFER TO SUPPORTING SPECIFICATION SECTION (16190).
- 3) REFER TO ELECTRICAL IDENTIFICATION SPECIFICATION SECTION (16195).
- 4) CONDUIT TRAPEZE CHANNEL SHALL BE A MINIMUM 1 1/2" x 1 1/2", 12 GAUGE PRE-GALVANIZED ZINC (ASTM A525 COATING, D90) B-LINE OR APPROVED EQUAL.
- 5) TYPE, SIZE, AND DEPTH OF EXPANSION ANCHORS USED IN POST TENSION CONCRETE STRUCTURES SHALL BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD FOR SUCH AREAS PRIOR TO INSTALLATION. LOCATIONS OF INSERTS SHALL ALSO BE COORDINATED WITH STRUCTURAL ENGINEER AND INSTALLED AS DIRECTED PRIOR TO INSTALLATION.
- 6) THREADED ROD HANGERS SHALL BE GALVANIZED CONTINUOUS THREAD TYPE, MINIMUM 3/8" DIAMETER. INCREASE SIZE AS REQUIRED TO SUPPORT LOAD.
- 7) ANCHORS, THREADED RODS, HANGERS, ETC. INSTALLED ON SIDE OR BOTTOM OF PRE-STRESSED BEAMS ARE NOT ACCEPTABLE.
- 8) INSTALL CONDUIT TRAPEZE AS TIGHT TO CEILING STRUCTURE AS POSSIBLE.
- 9) ALL CONDUIT TRAPEZE SUPPORTING SYSTEMS SHALL BE MINIMUM 24", (INCREASE DISTANCE AS REQUIRED FOR QUANTITY OF CONDUITS PROVIDED). PROVIDE SPACE ON EACH ASSEMBLY FOR 25 PERCENT ADDITIONAL CONDUITS FOR FUTURE.
- 10) CUT THREADED ROD HANGERS OFF AT 3/4" BEYOND BOTTOM NUT, AND FILE CUT END.
- 11) FILE CUT EDGES OF CHANNEL.



**CONDUIT TRAPEZE SUPPORTING DETAIL  
CONCRETE STRUCTURE (INTERIOR)**  
N.T.S. SUPDTL4

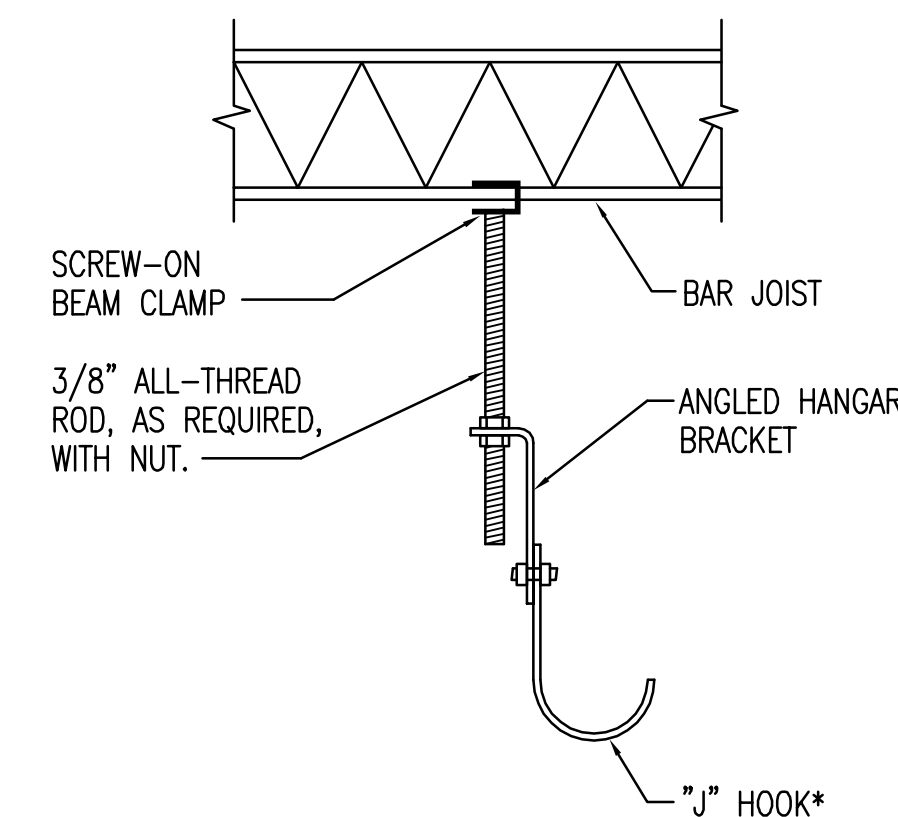
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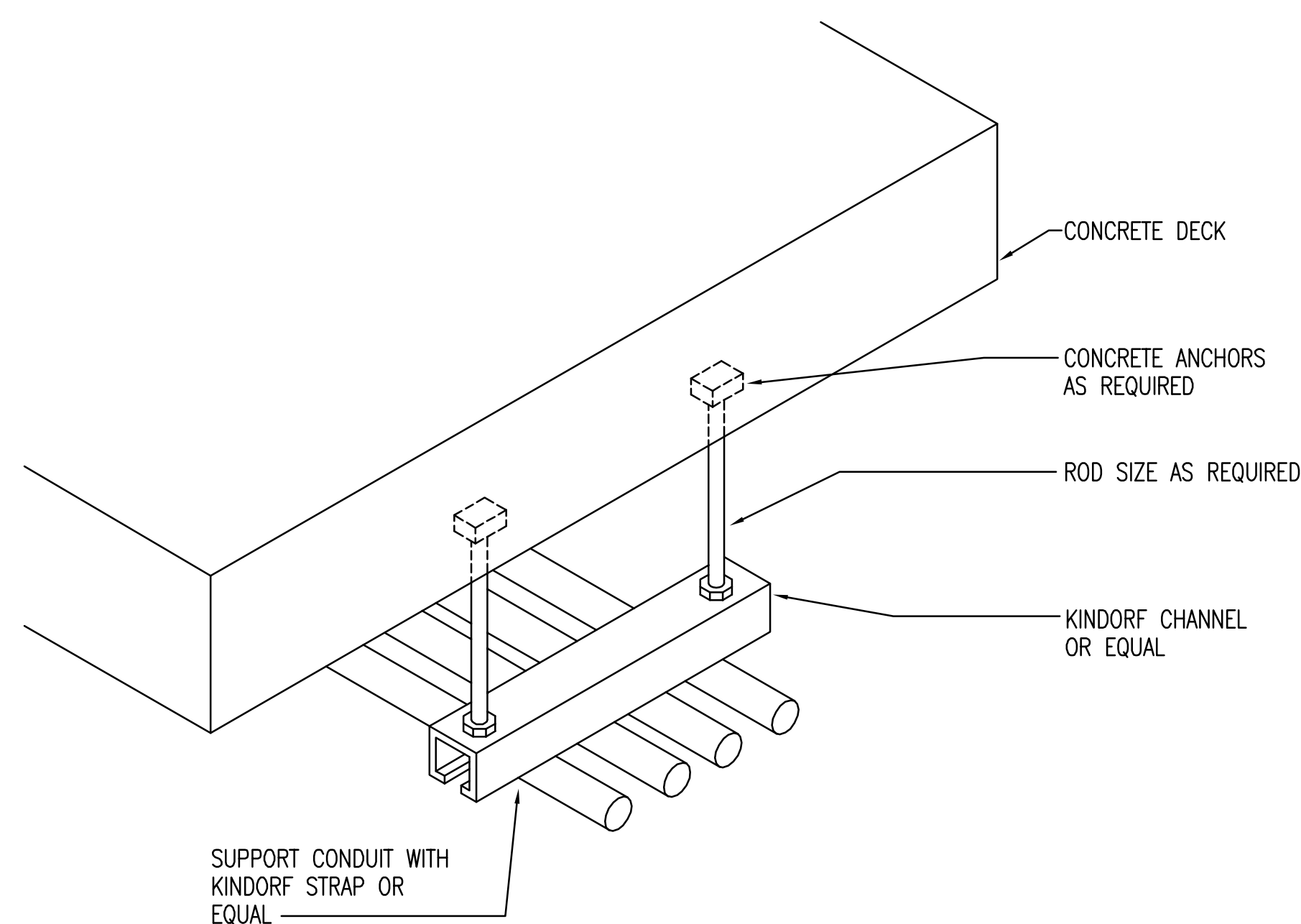
NOTE: INSTALLATION SHALL COMPLY WITH NEC LATEST EDITION, AND EIA/TIA STANDARDS.

**'J' HOOK DETAIL**  
N.T.S. SUPDTL2

NOTE: ALL PDS CABLES SHALL BE SUPPORTED BY 'J' HOOKS EVERY 4'-0".



\*PROVIDE SIZE AND QUANTITY AS REQUIRED FOR CABLES, WITH A MAXIMUM FILL OF 50% CROSS-AREA.



**TRAPEZE SUPPORT DETAIL**

N.T.S. SUPDTL1

**ORANGE COUNTY  
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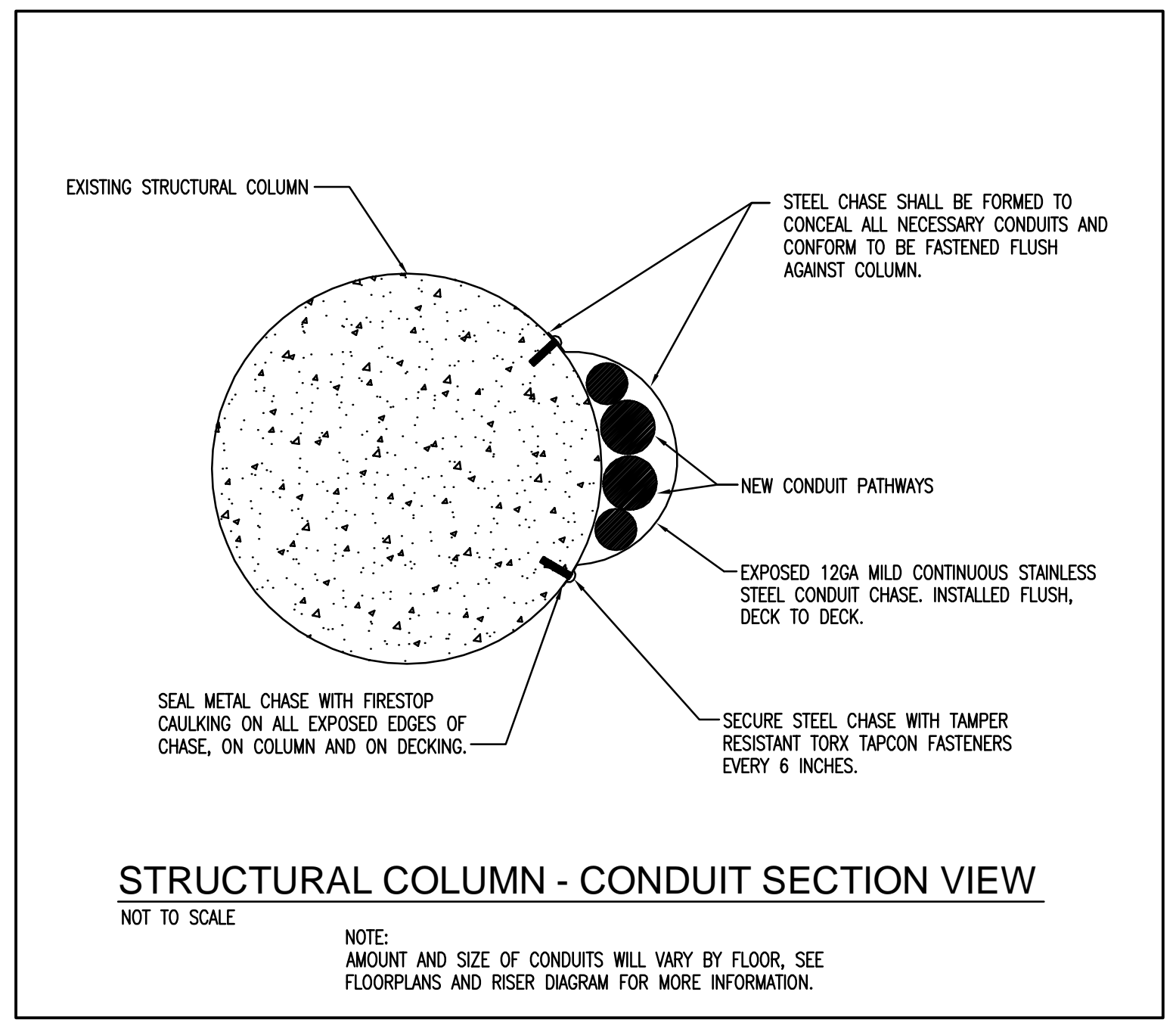
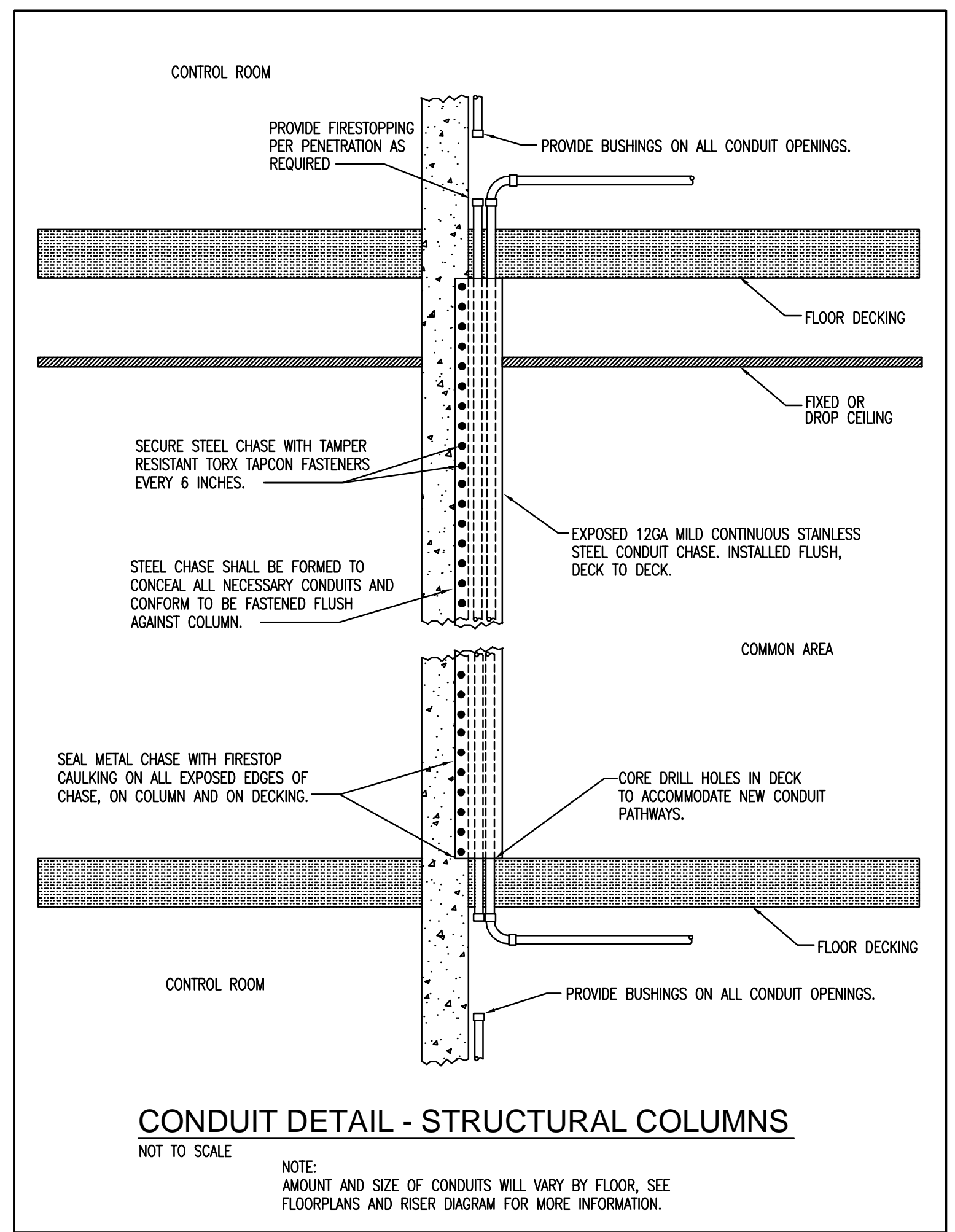
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**ELECTRICAL DETAILS**

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 Drawing No.  
**E904**