

ELECTRICAL LEGEND

	EXISTING ELECTRICAL PANELBOARD, TO REMAIN IN PLACE.		COMBINATION AUDIBLE/VISIBLE (SPEAKER/STROBE) ALARM UNIT. NUMBER INDICATES MINIMUM STROBE CANDELA VALUE ON DRAWING E02. WHERE ALARM UNIT MUST BE MOUNTED ON A SURFACE BOX, PROVIDE ALARM UNIT MANUFACTURER'S CUSTOM FIT SURFACE BACKBOX.
	JUNCTION BOX WITH SCREW COVER, UNIT ON CEILING MOUNTED. WALL MOUNTED. (UNLESS NOTED OTHERWISE).		COMBINATION AUDIBLE/STROBE ALARM UNIT. WHERE ALARM UNIT MUST BE MOUNTED ON A SURFACE BOX, PROVIDE ALARM UNIT MANUFACTURER'S CUSTOM FIT SURFACE BACKBOX.
	EXISTING COMMUNICATIONS BACKBOARD.		SAME AS DESCRIPTION ABOVE, EXCEPT ALARM UNIT IN NEMA-1 ENCLOSURE WITH SCREW COVER.
	CONTROL PANEL, SURFACE MOUNTED, TYPE AS NOTED ON PLAN.		MANUAL PULL STATION, WALL MOUNTED, WITH 5/8" MIN. STOPPER COVER, NON-ADHESIVE TYPE, SPECIAL MOUNT STATION IN SPECIFIC INSTALLATION DETAIL IS CALLED OUT ON PLAN. WHERE STATIONS MUST BE MOUNTED ON SURFACE BOXES, PROVIDE PULL STATION MANUFACTURER'S CUSTOM FIT SURFACE BACKBOX.
	ADDRESSABLE INTERFACE UNIT (AHU) - MONITOR THE UNITLESS NOTED OTHERWISE ON PLAN. MOUNT UNIT IN A NEMA-1 ENCLOSURE WITH SCREW COVER.		MANUAL PULL STATION, SAME AS DESCRIPTION ABOVE EXCEPT AN EPOX-ENCAPSULATED ALL FOR CONNECTIVITY TO THE FACP.
	SPOT-TYPE SMOKE DETECTOR, CEILING MOUNTED, TYPICALLY MOUNT A SPECIFIC INSTALLATION DETAIL IS CALLED OUT ON PLAN. PROVIDE A WIREMOLD #5737 OR #5739 BOX TO MOUNT DETECTOR.		SPOT-TYPE SMOKE DETECTOR, WALL MOUNTED, MOUNT DETECTOR ON #5739 BOX TO MOUNT DETECTOR.
	SPOT-TYPE HEAT DETECTOR, COMBINATION 135-DEGREE FIXED TEMPERATURE AND RATE-OF-RISE, CEILING MOUNTED, DRAWING E02, WHERE DETECTOR MUST MOUNTED ON A SURFACE BACKBOX. PROVIDE A WIREMOLD #5737 OR #5739 BOX TO MOUNT DETECTOR.		SPOT-TYPE SMOKE DETECTOR, WALL MOUNTED, MOUNT DETECTOR ON #5739 BOX TO MOUNT DETECTOR.
	DUCT-TYPE SMOKE DETECTOR, DETECTOR SHALL BE PROPERLY RATED FOR AIR FLOW IN DUCT SYSTEM. PROVIDE FAN IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. PROVIDE FAN PROVIDE CONTROL WIRING TO FIRE/SMOKE DAMPERS WHERE APPLICABLE. SHUTDOWN CONTROL CIRCUIT SHALL BE CONFIGURED SUCH THAT FIRE/SMOKE DAMPERS WILL AUTOMATICALLY RE-START THE FIRE ALARM PANEL (FACP) IS RESET.		EXISTING WALL MOUNTED PULL STATION - REMOVE STATION AND SIZED STAINLESS STEEL WALLPLATE TO COVER HOLE IN WALL.
	FIRE ALARM SYSTEM TEST STATION FOR DUCT-TYPE SMOKE DETECTOR, SURFACE MOUNT ON WALL AT 80" ABOVE FINISHED FLOOR.		EXISTING WALL MOUNTED PULL STATION - REMOVE STATION AND SIZED STAINLESS STEEL WALLPLATE TO COVER HOLE IN WALL.
	VISIBLE-ONLY (STROBE) ALARM UNIT, CEILING MOUNTED, NUMBER ALARM UNIT IN ACCORDANCE WITH DETAIL 4 ON DRAWING E02. PROVIDE ALARM UNIT MANUFACTURER'S CUSTOM FIT SURFACE BACKBOX.		EXISTING WALL MOUNTED VISIBLE ALARM UNIT - REMOVE ALARM UNIT AND FIT SIZED STAINLESS STEEL WALLPLATE TO COVER HOLE IN WALL.
	VISIBLE-ONLY (STROBE) ALARM UNIT, SAME AS DESCRIPTION ABOVE, EXCEPT ALARM UNIT SHALL BE WEATHERPROOF TYPE.		EXISTING WALL MOUNTED VISIBLE ALARM UNIT - REMOVE ALARM UNIT AND FIT SIZED STAINLESS STEEL WALLPLATE TO COVER HOLE IN WALL.
	VISIBLE-ONLY (STROBE) ALARM UNIT, WALL MOUNTED, NUMBER INDICATES MINIMUM STROBE CANDELA VALUE. PROVIDE ALARM UNIT MANUFACTURER'S CUSTOM FIT SURFACE BACKBOX.		EXISTING WALL MOUNTED VISIBLE ALARM UNIT - REMOVE ALARM UNIT AND FIT SIZED STAINLESS STEEL WALLPLATE TO COVER HOLE IN WALL.
	AUDIBLE-ONLY (SPEAKER) ALARM UNIT, TYPICAL MOUNT ALARM UNIT MUST BE MOUNTED ON A SURFACE BOX, PROVIDE ALARM UNIT MANUFACTURER'S CUSTOM FIT SURFACE BACKBOX.		EXISTING WALL MOUNTED VISIBLE ALARM UNIT - REMOVE ALARM UNIT AND FIT SIZED STAINLESS STEEL WALLPLATE TO COVER HOLE IN WALL.

GENERAL NOTES

- PROVIDE RACEWAY AND WIRING TO ALL DEVICES, FIXTURES, AND EQUIPMENT. PROVIDE NECESSARY SUPPORTS AND HANGERS. PROVIDE NECESSARY RACEWAY AND/OR WIRING REQUIREMENTS TO HELP CLARIFY DESIGN INTENT. WHERE RACEWAY AND/OR WIRING IS NOT INDICATED FOR DEVICES, FIXTURES, OR EQUIPMENT, PROVIDE RACEWAY AND/OR WIRING IN ACCORDANCE WITH THE 2008 EDITION OF THE NATIONAL ELECTRICAL CODE AND IN ACCORDANCE WITH METHODS OUTLINED IN THE CONTRACT SPECIFICATIONS AND DRAWINGS.
- RACEWAY LOCATIONS INDICATED ON PLAN ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND PROVIDE NECESSARY BUILDING COMPONENTS, EQUIPMENT, FIXTURES, AND DEVICES.
- ALL PENETRATIONS THROUGH FLOORS, WALLS, AND PARTITIONS SHALL BE PROVIDED IN CONJUNCTION WITH THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA 70 (2008 EDITION) AND THE INTERNATIONAL BUILDING CODE (2006 EDITION), LISTED IN THE 2008 U.S. FIRE RESISTANCE DIRECTORY (e.g., SYSTEMS CA1725 AND UL1192). SEE PENETRATION FIRESTOP DETAILS 1 AND 2 ON DRAWING E02.
- RECEIVED SHALL BE ENTITLED WITH COMPRESSION TYPE FITTINGS UNLESS NOTED OR BE USED.
- ONLY RACEWAYS AND WIRING THAT SPECIFICALLY SERVE DEVICES AND/OR EQUIPMENT SHALL BE INSTALLED IN THE STAIRWELL AS REQUIRED PER THE INTERNATIONAL BUILDING CODE.
- INSTALL ELECTRICAL SYSTEMS WITHOUT INTERFERING WITH DUCTS, PIPES, STRUCTURAL MEMBERS, OR OTHER SYSTEMS.
- PROVIDE ADDITIONAL SUPPORTS FOR CONTROL PANELS, RACEWAYS, AND OTHER EQUIPMENT WHEREVER THE BUILDING STRUCTURE IS NOT SUITABLE FOR MOUNTING.
- PROVIDE ACCESS DOORS WHERE REQUIRED TO PROVIDE ACCESS TO CONCEALED PIPES AND SERVICE DEVICES.
- INSTALL FIRE ALARM SYSTEM DEVICES AS INDICATED IN INSTALLATION DETAILS SHOWN ON DRAWING E02. PROVIDE NECESSARY SUPPORTS AND HANGERS. PROVIDE NECESSARY MANUFACTURER'S RECOMMENDATIONS AND INDUSTRY STANDARDS IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE NATIONAL FIRE ALARM CODE.
- EQUIPMENT AND DEVICE LOCATIONS INDICATED ON PLAN ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND PROVIDE NECESSARY BUILDING COMPONENTS, EQUIPMENT, FIXTURES, AND DEVICES.
- SPlicing: CONNECT CONDUCTORS ASSOCIATED WITH THE FIRE ALARM SYSTEM THAT ARE TERMINATED, SPliced, OR INTERMEDIATE TO TERMINAL BLOCKS, MARK EACH CONNECTION WITH APPROVED CRIMP-ON TERMINAL STRAPS, PRESSURE-TYPE TERMINAL BLOCKS, OR PLUG CONNECTORS. SOLDER AND/OR WIRE NUTS SHALL NOT BE USED.
- CABLE TAPS: CABLE TAPS WILL ONLY BE ALLOWED IN ADDRESSABLE TYPE SIGNALING DEVICES. PROVIDE NECESSARY SUPPORTS AND HANGERS. PROVIDE NECESSARY MANUFACTURER'S RECOMMENDATIONS AND INDUSTRY STANDARDS IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE NATIONAL FIRE ALARM CODE.
- CUTTING, DRILLING, AND PATCHING: PROVIDE CHASES, SLOTS, AND OPENINGS IN EXISTING STRUCTURES, PARTITIONS, CEILING, FLOORING, AND PARTITIONS AS REQUIRED BY THE CONTRACT DOCUMENTS.
- REMOVE AND REPLACE DEFECTIVE WORK THAT DOES NOT CONFORM TO PROJECT REQUIREMENTS OR THE CONTRACT DOCUMENTS.
- UPON WRITTEN INSTRUCTIONS FROM THE ARCHITECT/ENGINEER, UNCOVER AND PATCH EXISTING SURFACES AND BUILDING COMPONENTS USING NEW MATERIALS THAT MATCH EXISTING MATERIALS. PATCHING SHALL BE PERFORMED BY EXPERIENCED INSTALLERS.
- COORDINATE ALL REQUIRED OUTGAGES TO EXISTING ELECTRICAL SERVICES AND FIRE ALARM SYSTEM WITH DENNIS GALLAGHER OF USC MAINTENANCE (PHONE NUMBER 212-8775) AND JOHN SMITH OF USC HEALTH & SAFETY (PHONE NUMBER 212-8775).

DEMOLITION NOTES

- DEMOLITION UNDER THIS CONTRACT SHALL INCLUDE ALL EXISTING FIRE ALARM SYSTEM EQUIPMENT, DEVICES, RACEWAYS, AND WIRING PATCH AND REPAIR SURFACES SURROUNDING FINISHES. CONCEALED RACEWAYS MAY BE ABANDONED IN PLACE BUT SHALL BE FIRESTOPPED/SEALED.
- CONTRACTOR SHALL MAINTAIN THE EXISTING FIRE ALARM SYSTEM UNTIL THE NEW FIRE ALARM SYSTEM IS FUNCTIONAL. COORDINATE ALL REQUIRED OUTGAGES TO USC'S SUPERVISION STATION, AND CITY OF COLUMBIA FIRE AUTHORITIES.
- THE EXISTING FIRE ALARM SYSTEM EQUIPMENT AND DEVICES REMOVED BY DEMOLITION SHALL BE TURNED OVER TO TODD GREEN.

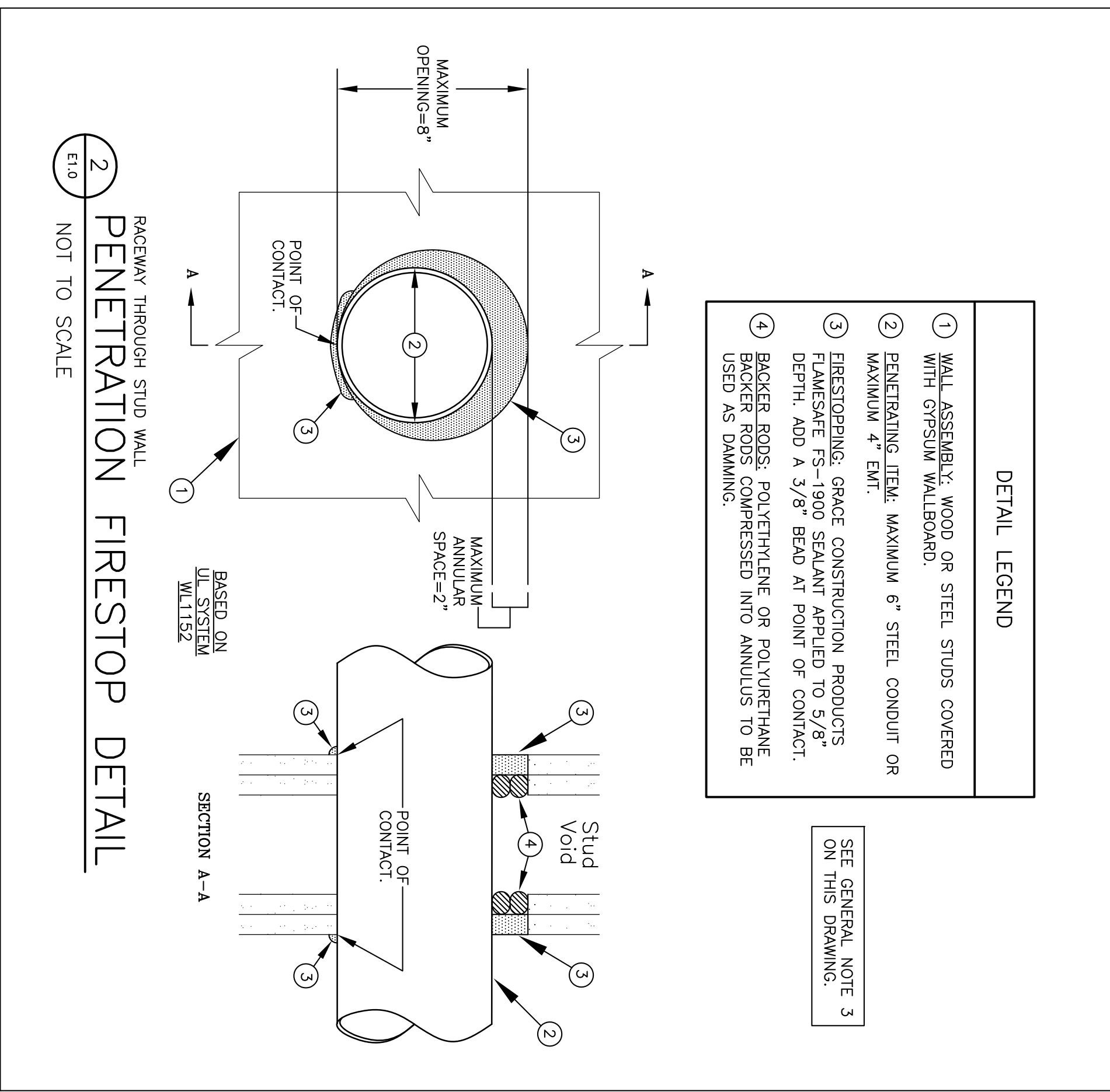
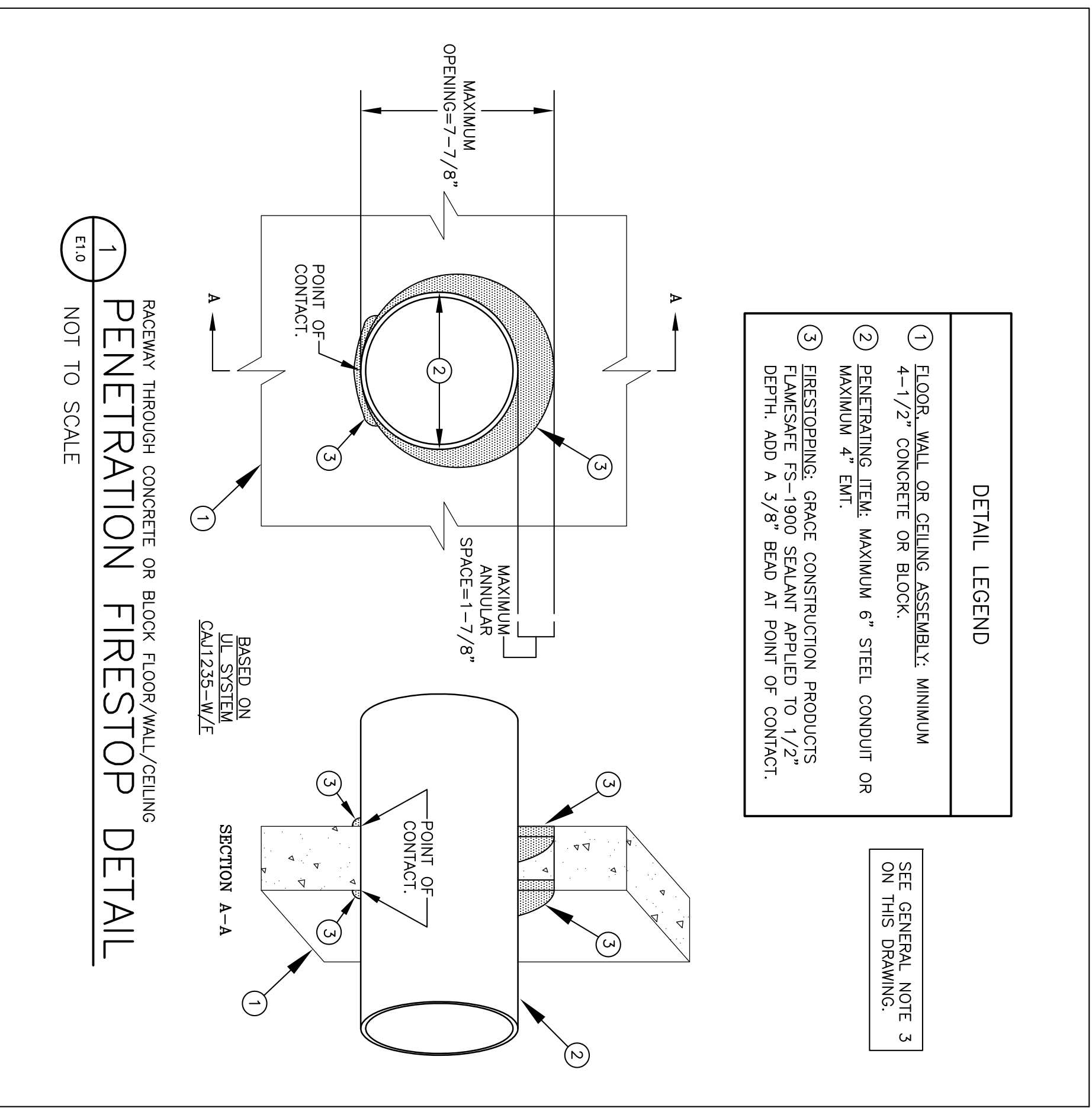
ELECTRICAL DRAWING INDEX

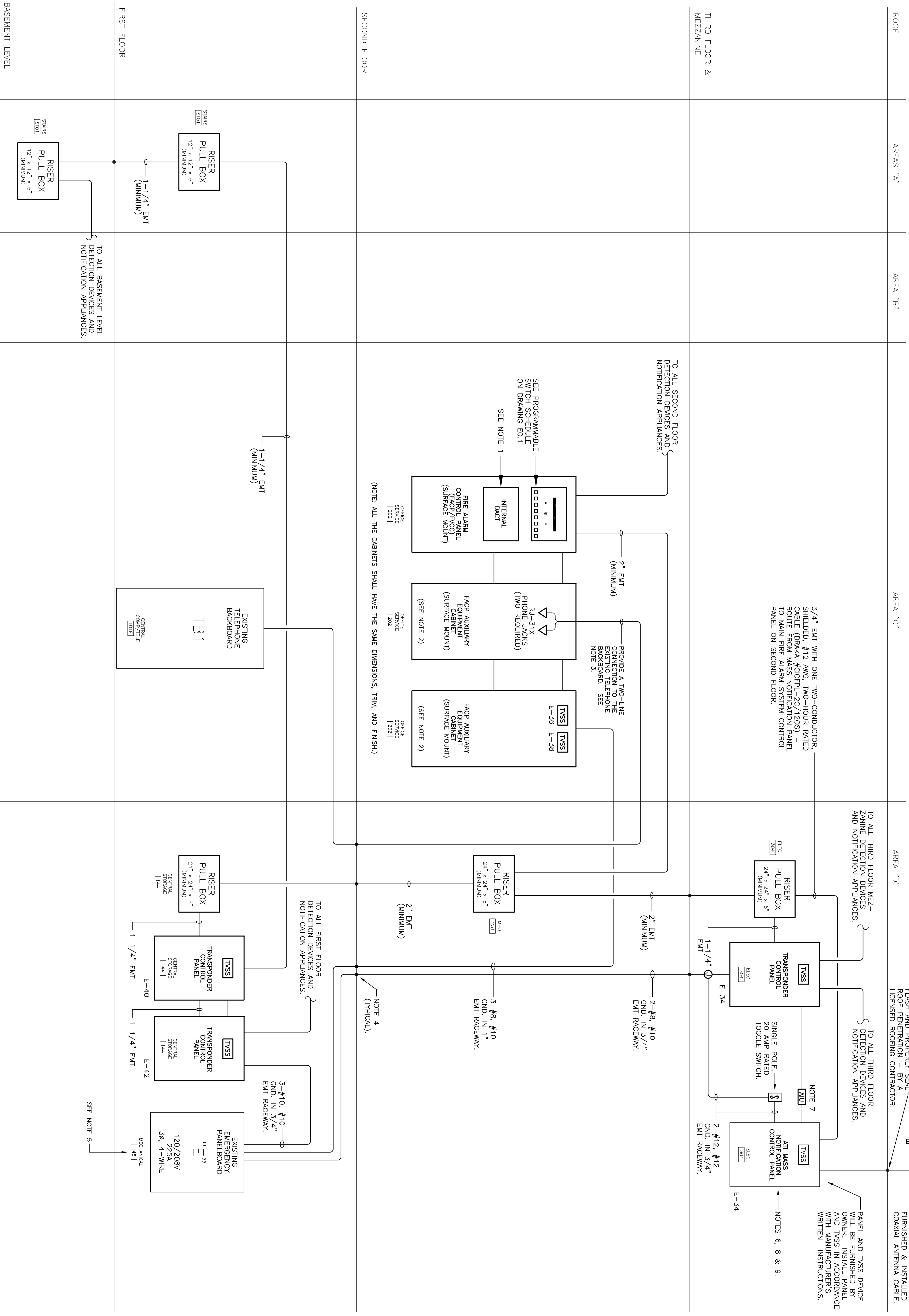
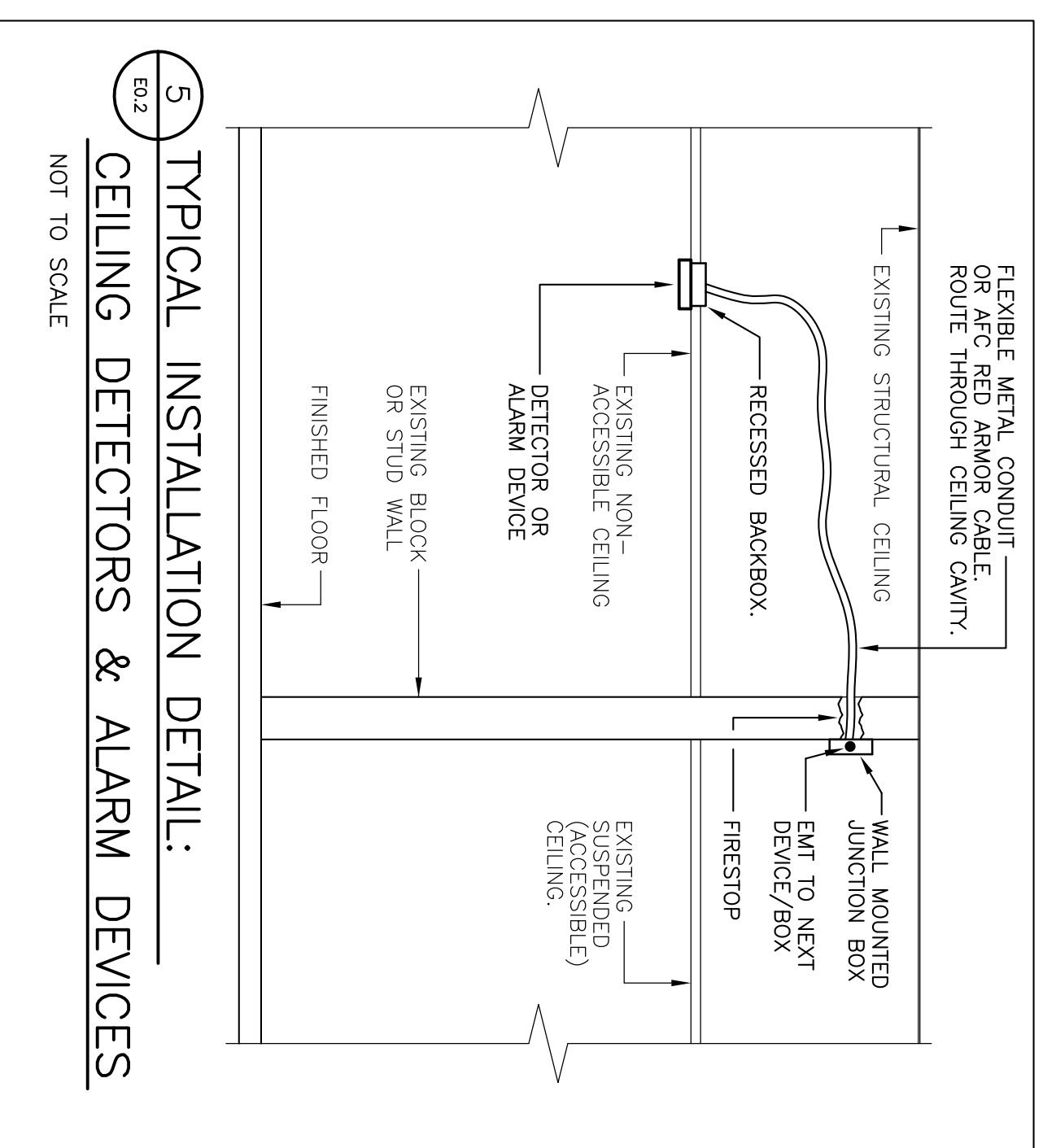
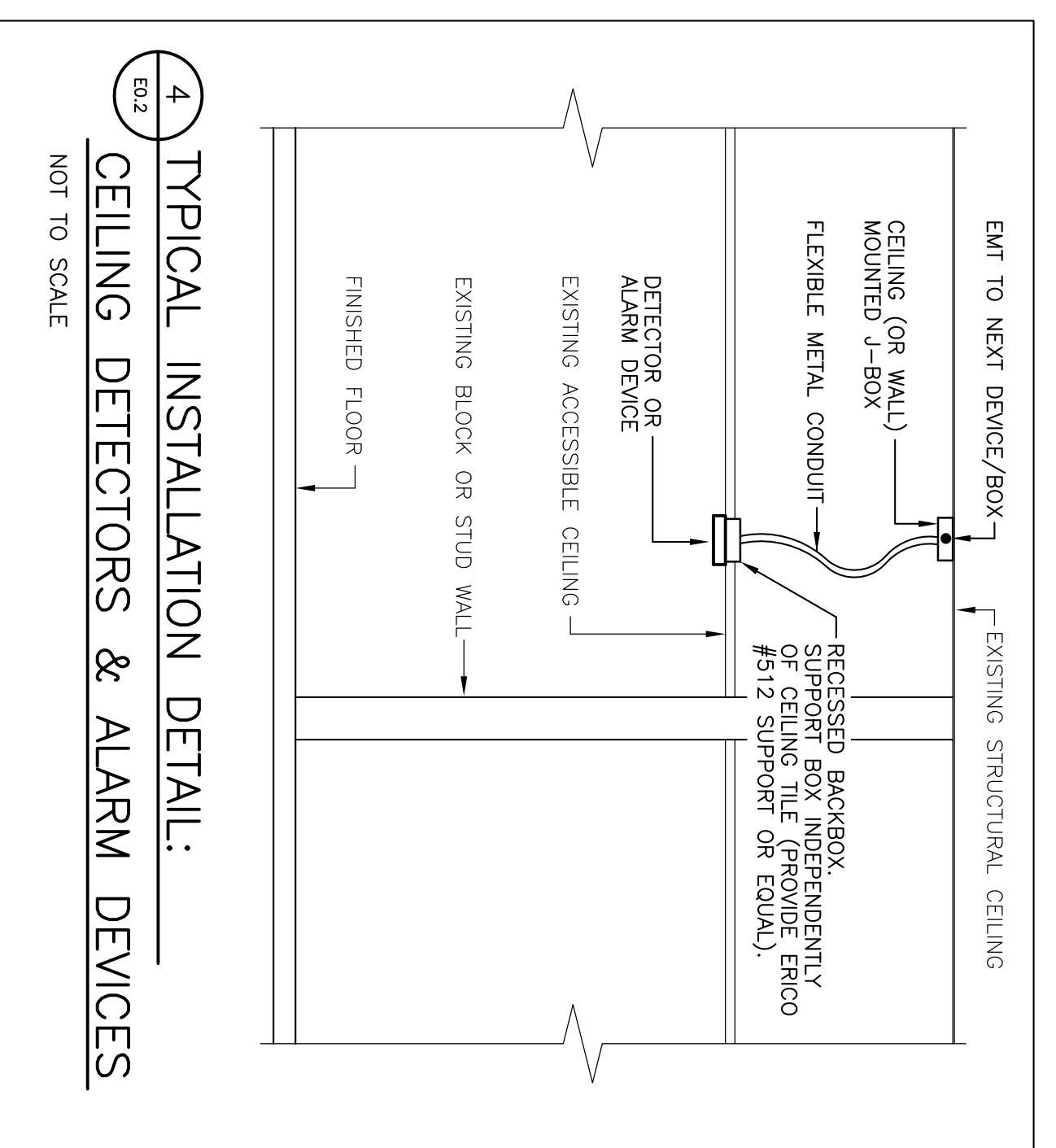
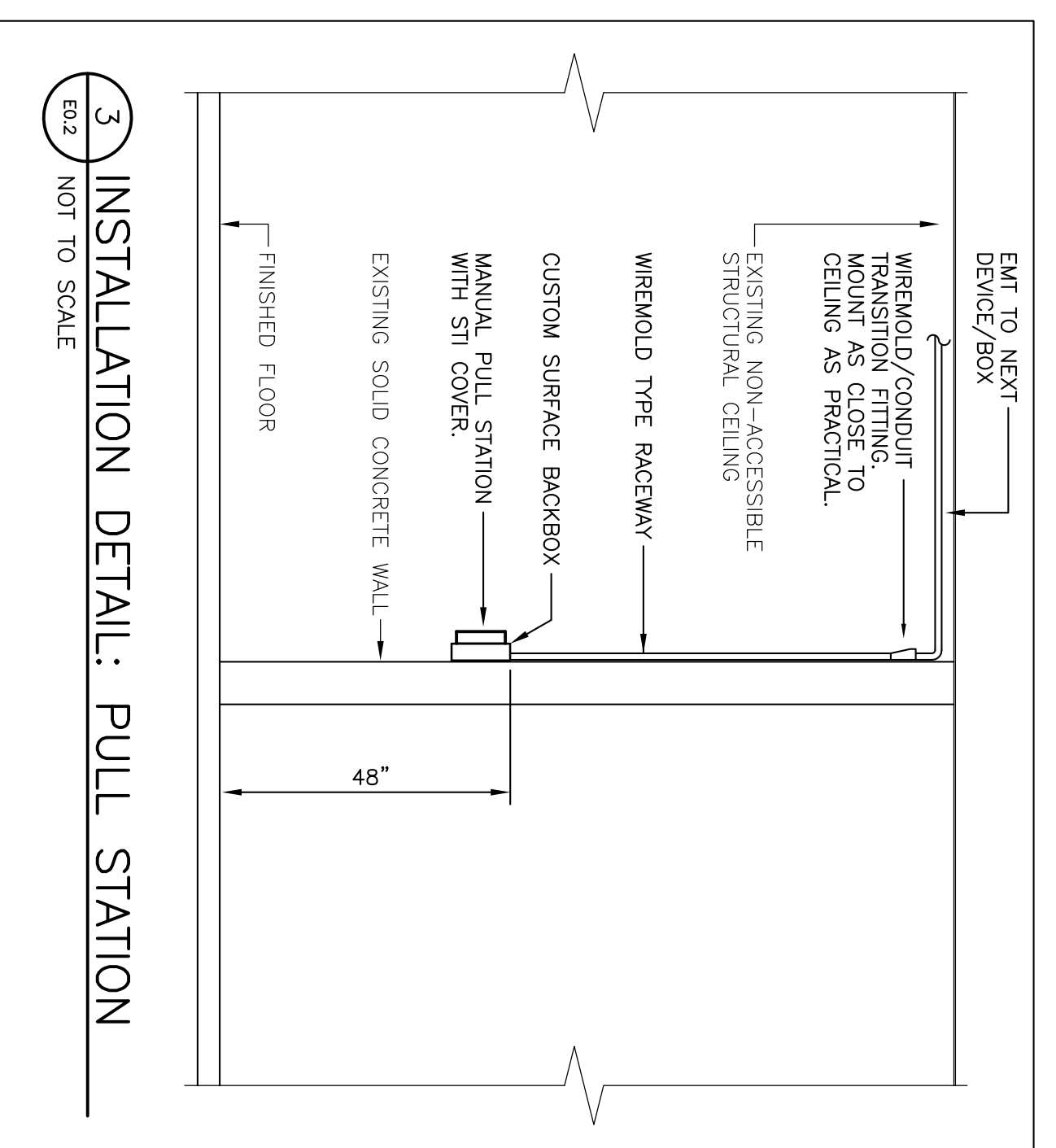
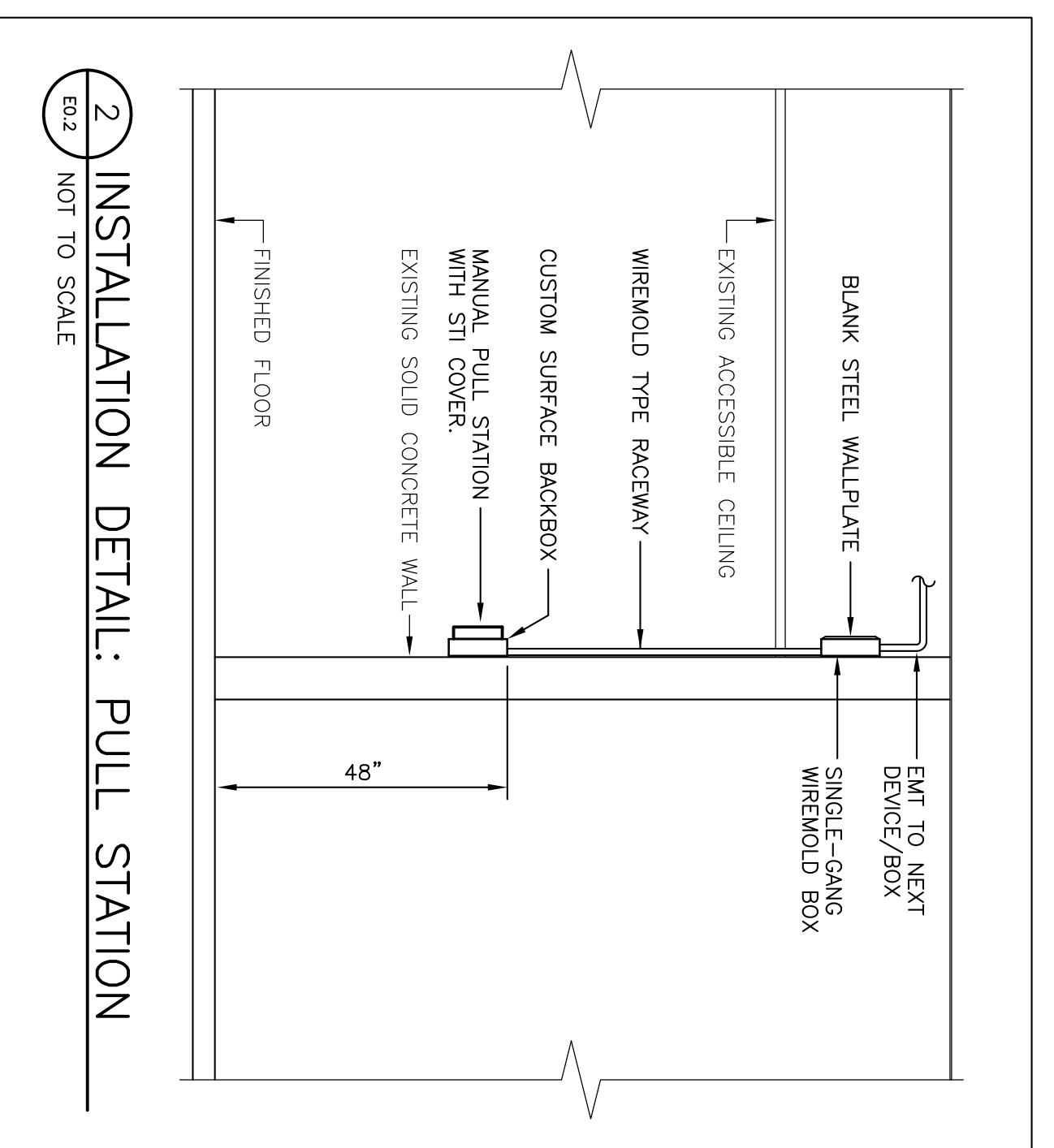
E01	GENERAL NOTES, LEGEND, DETAILS, AND SCHEDULES
E02	FIRE ALARM SYSTEMS, LEGEND, DETAILS, AND SCHEDULES
E10A	FIRE ALARM SYSTEMS, LEGEND, DETAILS, AND SCHEDULES
E10B	FIRE ALARM SYSTEMS, LEGEND, DETAILS, AND SCHEDULES
E10C	FIRE ALARM SYSTEMS, LEGEND, DETAILS, AND SCHEDULES
E10D	FIRE ALARM SYSTEMS, LEGEND, DETAILS, AND SCHEDULES
E10E	FIRE ALARM SYSTEMS, LEGEND, DETAILS, AND SCHEDULES
E10F	FIRE ALARM SYSTEMS, LEGEND, DETAILS, AND SCHEDULES
E10G	FIRE ALARM SYSTEMS, LEGEND, DETAILS, AND SCHEDULES
E10H	FIRE ALARM SYSTEMS, LEGEND, DETAILS, AND SCHEDULES
E10I	FIRE ALARM SYSTEMS, LEGEND, DETAILS, AND SCHEDULES
E10J	FIRE ALARM SYSTEMS, LEGEND, DETAILS, AND SCHEDULES
E10K	FIRE ALARM SYSTEMS, LEGEND, DETAILS, AND SCHEDULES
E10L	FIRE ALARM SYSTEMS, LEGEND, DETAILS, AND SCHEDULES
E10M	FIRE ALARM SYSTEMS, LEGEND, DETAILS, AND SCHEDULES
E10N	FIRE ALARM SYSTEMS, LEGEND, DETAILS, AND SCHEDULES
E10O	FIRE ALARM SYSTEMS, LEGEND, DETAILS, AND SCHEDULES
E10P	FIRE ALARM SYSTEMS, LEGEND, DETAILS, AND SCHEDULES
E10Q	FIRE ALARM SYSTEMS, LEGEND, DETAILS, AND SCHEDULES
E10R	FIRE ALARM SYSTEMS, LEGEND, DETAILS, AND SCHEDULES
E10S	FIRE ALARM SYSTEMS, LEGEND, DETAILS, AND SCHEDULES
E10T	FIRE ALARM SYSTEMS, LEGEND, DETAILS, AND SCHEDULES
E10U	FIRE ALARM SYSTEMS, LEGEND, DETAILS, AND SCHEDULES
E10V	FIRE ALARM SYSTEMS, LEGEND, DETAILS, AND SCHEDULES
E10W	FIRE ALARM SYSTEMS, LEGEND, DETAILS, AND SCHEDULES
E10X	FIRE ALARM SYSTEMS, LEGEND, DETAILS, AND SCHEDULES
E10Y	FIRE ALARM SYSTEMS, LEGEND, DETAILS, AND SCHEDULES
E10Z	FIRE ALARM SYSTEMS, LEGEND, DETAILS, AND SCHEDULES

PROGRAMMABLE SWITCH SCHEDULE AT FVCC PANELS

SW1	ALARM ACKNOWLEDGE	SW2	SUPERVISORY ACKNOWLEDGE	SW3	TRouble	SW4	SYSTEM RESET	SW5	ALARM SILENCE	SW6	AHU SHUTDOWN	SW7	SPARE	SW8	SPARE
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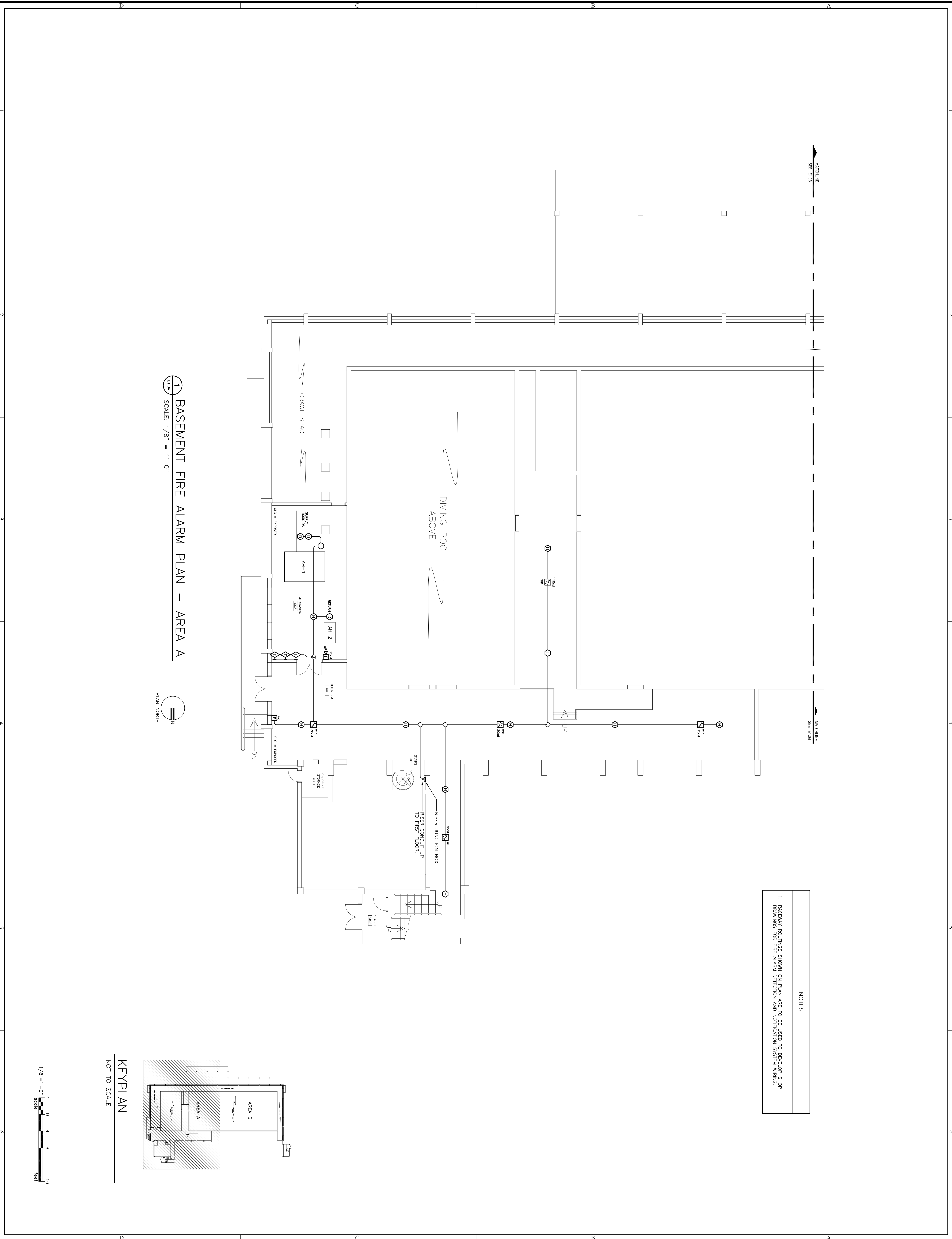
KEYED SWITCH TO LOCK-OUT LOCAL OPERATION SW6.
FOR THE REMOVE ANNUNCIATOR PANELS ONLY.



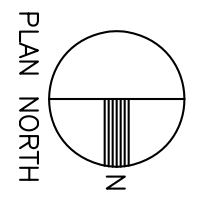


- GENERAL FIRE ALARM SYSTEM NOTES**
- FURNISH SHOP DRAWINGS FROM THE FIRE ALARM MANUFACTURER INDICATING ALL WIRING FOR DETECTION AND NOTIFICATION CIRCUITS. INCLUDE EQUIPMENT TYPES AND CABLES/WIRES AND COLOR CODING FOR EACH CIRCUIT TYPE. SHOP DRAWINGS SHALL BE PROVIDED ON 30" X 42" (E-SIZE) PRINTS.
 - ALL STROBES SHALL BE SYNCHRONIZED. ALL AUDIBLE NOTIFICATION DEVICES SHALL BE TEMPORAL CODED FOR PRETONE ALERT AND SHALL BE SYNCHRONIZED. PROVIDE BE TYPICAL CODED FOR PRETONE ALERT AND SHALL BE SYNCHRONIZED. PROVIDE CAPACITY IN ACCORDANCE WITH NFPA 72.
 - SPlicing, connect conductors associated with the fire alarm system that are terminated, spliced or interrupted to terminal blocks. MARK EACH TERMINAL IN ACCORDANCE WITH THE WIRING DIAGRAM OF THE SYSTEM. MARK ALL CONNECTIONS OR PLUG CONNECTORS. SOLDER AND/OR WIRE NUTS SHALL NOT BE USED. PROVIDE GREEN/WHITE CABLE ACCESSORY COORDINATION (CIB-SERIES, BREAKOFF TYPE TERMINAL BLOCKS) ON PULL BOXES AND/OR TERMINAL BLOCKS (P/N: 08-519-9253).
 - PROVIDE THREE SETS SIGNED FROM EACH AND MAINTENANCE MANUALS FOR THE FIRE ALARM SYSTEM.
 - PROVIDE A COMPLETE FIRE ALARM TEST IN ACCORDANCE WITH NFPA 72. ALL SHOPS PERSONNEL SHALL BE TRAINED IN THE USE OF THE FIRE ALARM SYSTEM. PROVIDE A WRITTEN RECORD OF THE INSPECTIONS, TESTS AND DETAILED TEST RESULTS IN THE FORM OF A TEST LOG. SUBMIT LOG UPON THE SATISFACTORY COMPLETION OF TESTS.
 - PROVIDE 8 HOURS OF TRAINING FOR TROUBLE-SHOOTING AND MAINTENANCE OF THE FIRE ALARM SYSTEM. SCHEDULE TRAINING WITH OWNER.
 - PROVIDE FOR THREE SITE VISITS BY A FIRE ALARM SYSTEM TECHNICIAN AFTER PROJECT COMPLETION TO ADJUST AND/OR REPROGRAM THE FIRE ALARM SYSTEM AS REQUESTED BY THE OWNER.

- SINGLE-LINE DIAGRAM NOTES**
- COORDINATE TESTING OF FIRE ALARM AND FIRE REPORTING SYSTEMS WITH USC'S SUPERVISING MONITORING STATION AS REQUIRED BY THE UNIVERSITY. CONTACT (773-8440).
 - PROVIDE TWO AUXILIARY EQUIPMENT CABINETS IN ADDITION TO THE FACP/RCC DIMENSIONS AS THE FACP CABINET. EACH CABINET SHALL BE PROVIDED WITH A LOCK THAT IS KEPT THE SAME AS THE MAIN FACP/RCC CABINET.
 - PROVIDE TWO CATEGORY 6 COMMUNICATIONS CABLES (OPEN) IN 1" EMT FROM THE AUXILIARY EQUIPMENT CABINET IN ROOM 202. LEAVE 12' OF SLACK CABLE AT THE BACKBOARD END FOR CONNECTION BY UNIVERSITY PERSONNEL.
 - CORE DRILL FLOORS/CEILING/ROOF ON EACH FLOOR AS REQUIRED TO INSTALL VERTICAL RISER RACKWAYS. THE CONTRACTOR SHALL PROVIDE THE SERVICES OF A CORE DRILLER TO CORE DRILL IN AREAS OF FLOOR SLABS WHERE DAMAGE WILL NOT OCCUR TO EXISTING RACKWAYS AND/OR STRUCTURAL STEEL.
 - PANEL "E" IS AN EXISTING GENERAL ELECTRIC "A" SERIES PANELBOARD. PROVIDE ONE NEW 20A SINGLE-POLE BREAKER PER TRANSPOUNDER PANEL AND TWO NEW 20A ASSOCIATED AUXILIARY CONTROL PANELS. PAINT CIRCUIT BREAKER HANDLES RED. RACKWAYS FOR BRANCH CIRCUITS SHALL BE EMT. WIRING SHALL BE COPPER WITH THE THRU/HWV INSULATION.
 - PROVIDE ONE #6 AWG GROUND WIRE FROM THE AFI PANEL'S GROUND LUG TO NEARBY STRUCTURAL COLUMN OR BEAM. DRILL COLUMN/BEAM AND USE A COMPRESSION LUG ON THE #6 AWG WIRE - BOLT GROUND-LUG TO COLUMN/BEAM.
 - PROVIDE ONE AU MODULE ADVANTAGE TO THE AFI PANEL AND CONNECT AU SUCH THAT IT MONITORS A RELAY CONTACT ON THE AFI PANEL AND MONITORS THE MAIN FIRE BROADCAST A MASS NOTIFICATION MESSAGE WHEN THE AU MODULE DETECTS AN OUTPUT RELAY CLOSE FROM THE AFI PANEL. ALL WIRING/CABLES SHALL BE FULLY AUTOMATICALLY RESISTANT THAT AN ALARM SIGNAL DOES NOT REQUIRE ASSISTANCE AT THE FACP AFTER A BROADCAST MESSAGE IS COMPLETED.
 - CONNECT ALL WIRING ASSOCIATED WITH THE MASS NOTIFICATION PANEL AND ASSIST IN TESTING TO ASSURE PROPER SOUND LEVELS AND CLARITY. COORDINATE TESTING WITH VANN BOCCINO AT THE USC POLICE DEPARTMENT. PHONE NUMBER 501-2951.
 - CONTACT DAVID WHITE OF RADIO COMMUNICATION SERVICE AT (803) 773-9743 ASSOCIATED COMMUNICATIONS FOR THE AFI PANEL AND PROVIDE ANY NECESSARY PROGRAMMING FOR THE AFI PANEL.

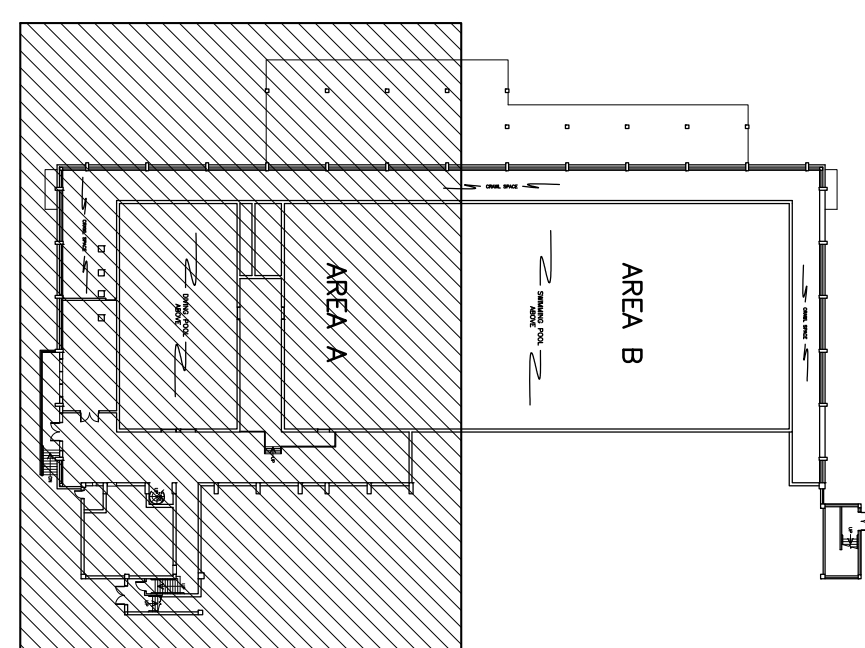


1 BASEMENT FIRE ALARM PLAN - AREA A
 SCALE: 1/8" = 1'-0"

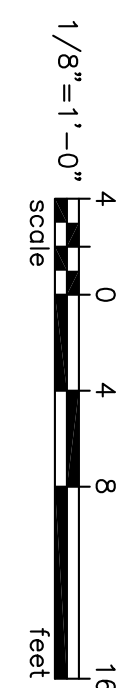


NOTES

1. REWORK ROUTING shown ON PLAN ARE TO BE USED TO PREPARE SHOP DRAWINGS FOR FIRE ALARM DETECTION AND NOTIFICATION SYSTEM WIRING.

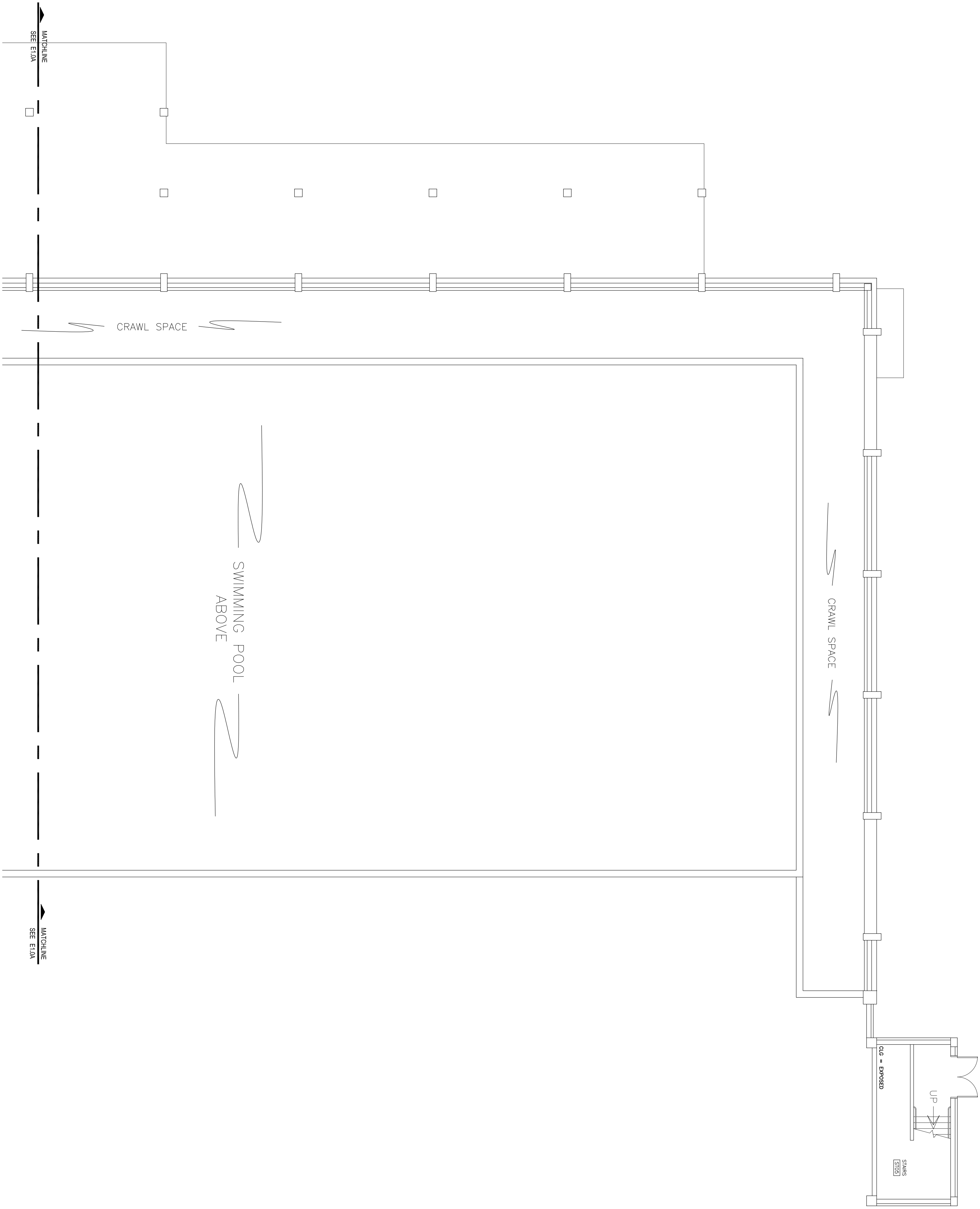


KEYPLAN
 NOT TO SCALE

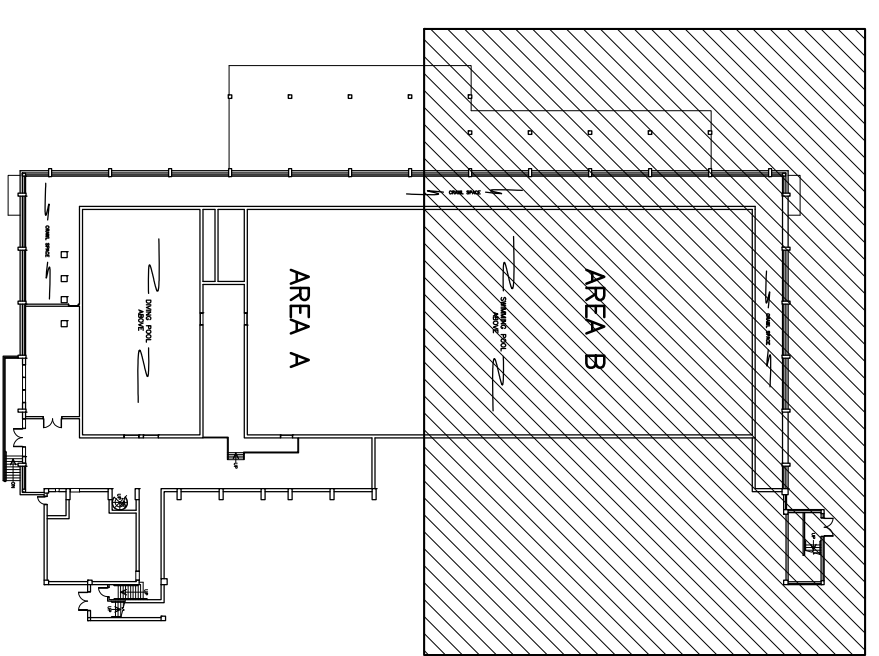
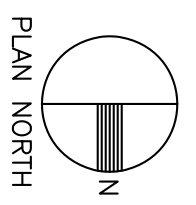


PROJECT TITLE: BLATT PE CENTER FIRE ALARM UPGRADES State Project H27-1851 University of South Carolina	BUILDING: 138	DRAWING: 18 SEP 12	DATE: 18 SEP 12	DRAWN BY: JWJ	CHECKED BY: JWJ	SEAL:	BELKA ENGINEERING ASSOCIATES, INC. 7 CLUSTERS COURT, SUITE 201 COLUMBIA, SOUTH CAROLINA 29210 (803) 731-0650 fax (803) 731-2880 EMAIL: jwland@bellsouth.net	US21016 OFFICE OF FACILITIES MANAGEMENT COLUMBIA, SC 29208
	REV.	DESCRIPTION	DATE	ORIG. BY	DRAWN BY			

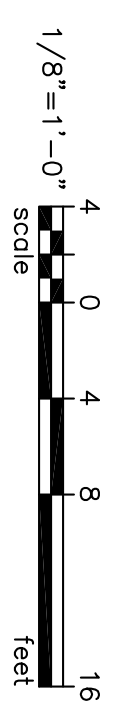
THIS DRAWING IS SHOWN FOR
REFERENCE ONLY - NO FIRE
ALARM WORK IS SHOWN.



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



KEYPLAN
NOT TO SCALE



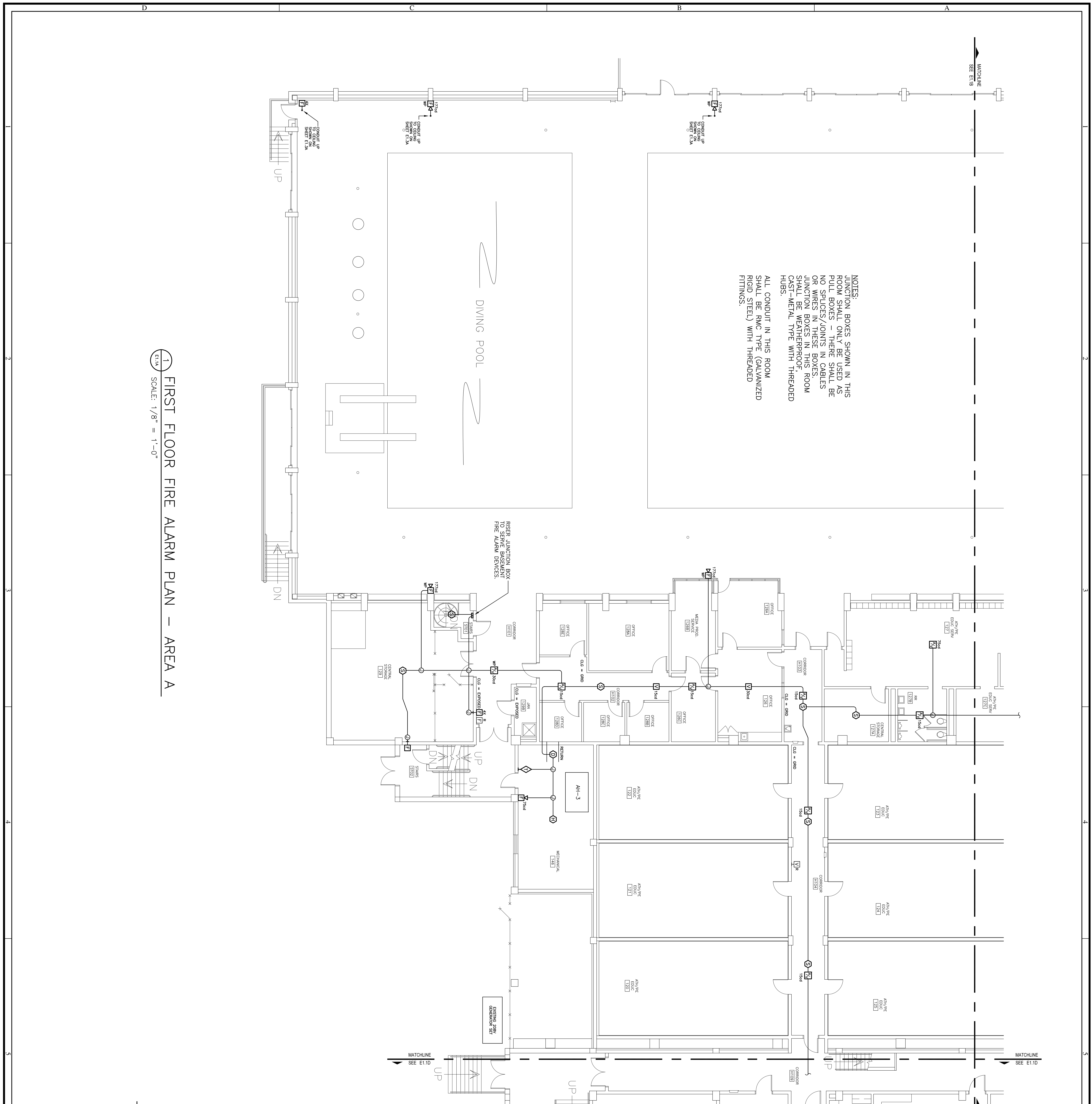
BUILDING: 138	DRAWING:	DATE: 18 SEP 12	DRAWN BY: JWL	CHECKED BY: JWL
REV.	DESCRIPTION	DATE	ORIG. BY	DRAWN BY

SEAL:

BEA BELKA ENGINEERING ASSOCIATES, INC. US21016
7 CLUSTERS COURT, SUITE 201
COLUMBIA, SOUTH CAROLINA 29210
(803) 731-0650 fax (803) 731-2880
EMAIL: jwland@bellsouth.net

OFFICE OF
FACILITIES MANAGEMENT
COLUMBIA, SC 29208

PROJECT TITLE: BLATT PE CENTER FIRE ALARM UPGRADES
State Project H27-1851
 University of South Carolina
SHEET: E1.0B
OF 18
SHEET IN SET: 04 OF 18

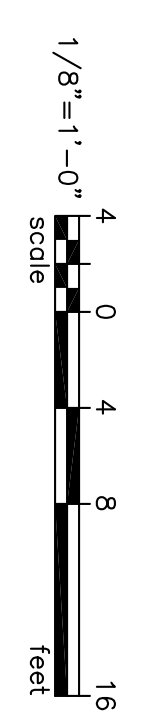
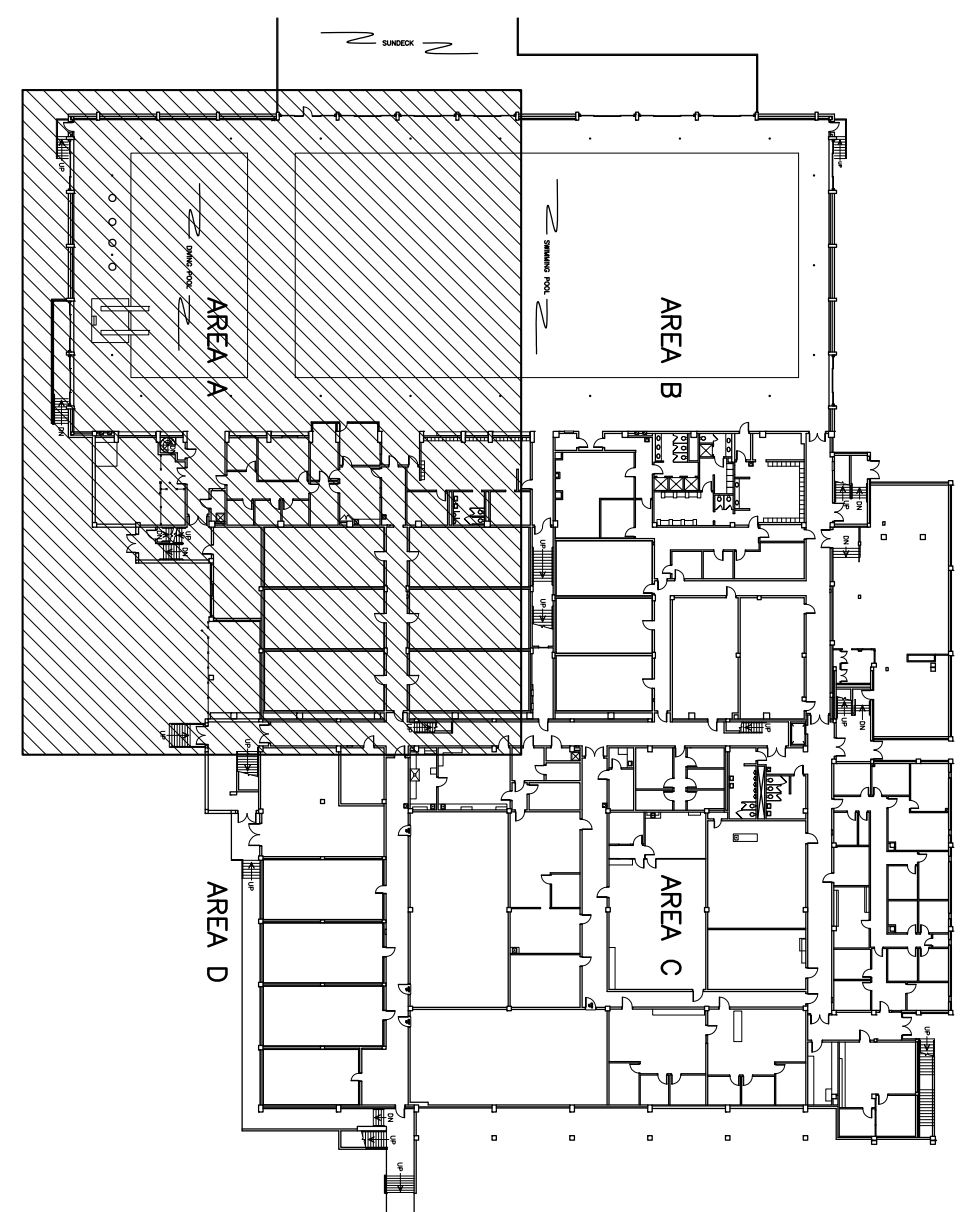


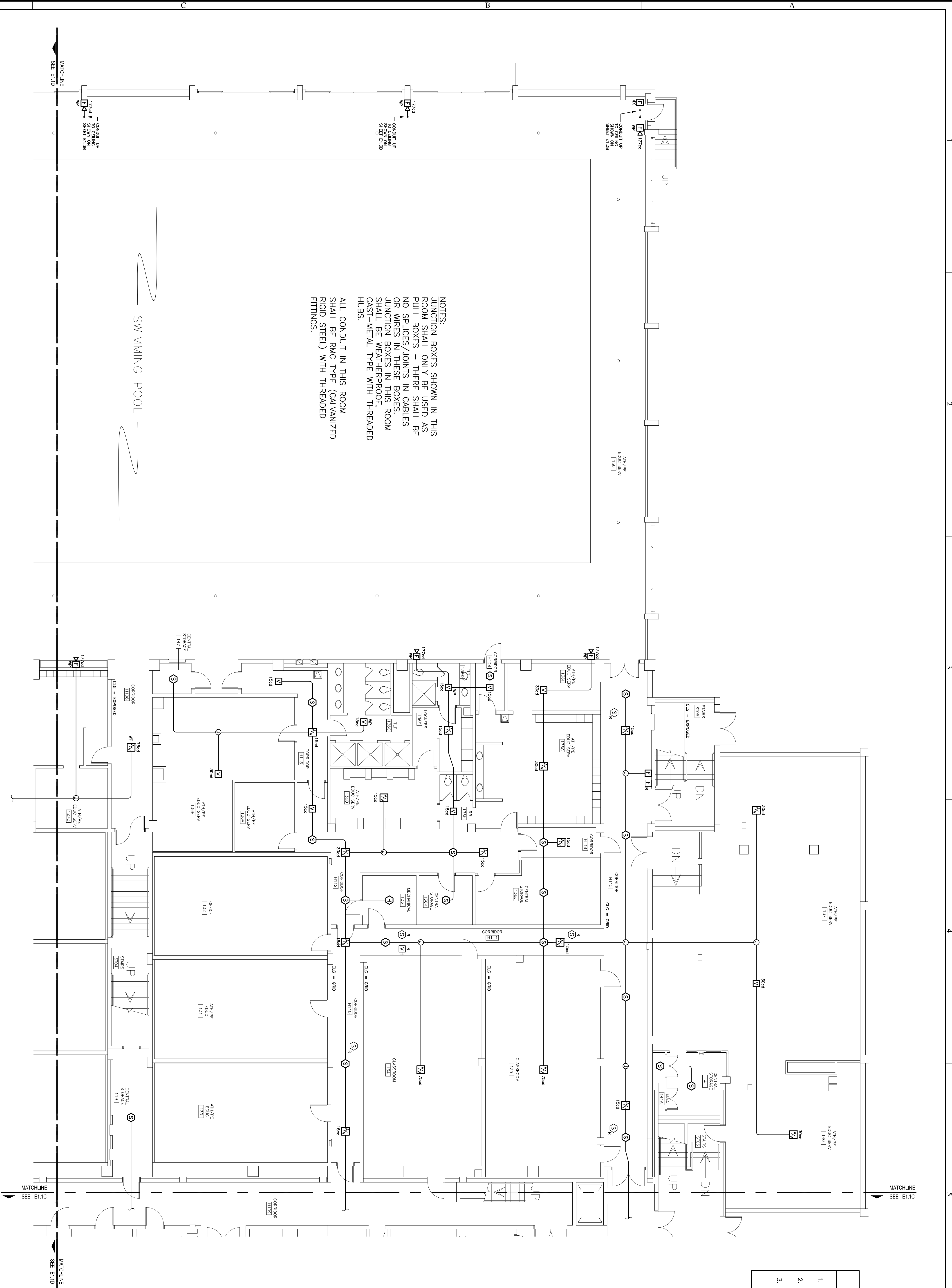
NOTES:
 JUNCTION BOXES SHOWN IN THIS ROOM SHALL ONLY BE USED AS FILL BOXES. JOINTS SHALL BE NO SPACES. JOINTS SHALL BE OR WIRES IN THESE BOXES. JUNCTION BOXES IN THIS ROOM SHALL BE WEATHERPROOF CAST-METAL TYPE WITH THREADED HUBS.
 ALL CONDUIT IN THIS ROOM SHALL BE RMC TYPE (GALVANIZED RIGID STEEL) WITH THREADED FITTINGS.

1 FIRST FLOOR FIRE ALARM PLAN – AREA A
 SCALE: 1/8" = 1'-0"

NOTES

1. RACKWAY ROUTINGS SHOWN ON PLAN ARE TO BE USED TO DEVELOP SHOP DRAWINGS FOR FIRE ALARM DETECTION AND NOTIFICATION SYSTEM WIRING.
2. RACKWAYS FOR POWER WIRING TO TRANSDUCER PANELS ARE NOT INDICATED ON PLAN, BUT SHALL BE PROVIDED AS NOTED ON DRAWING E02 (FIELD TO ROUTE).
3. RISER RACKWAYS FOR FIRE ALARM RISER JUNCTION BOXES AND TRANSDUCER CONTROL PANELS ARE NOT INDICATED ON PLAN, BUT SHALL BE PROVIDED AS NOTED ON DRAWING E02 (FIELD TO ROUTE).

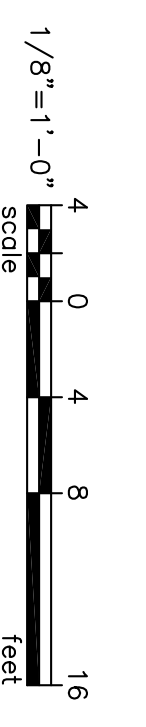
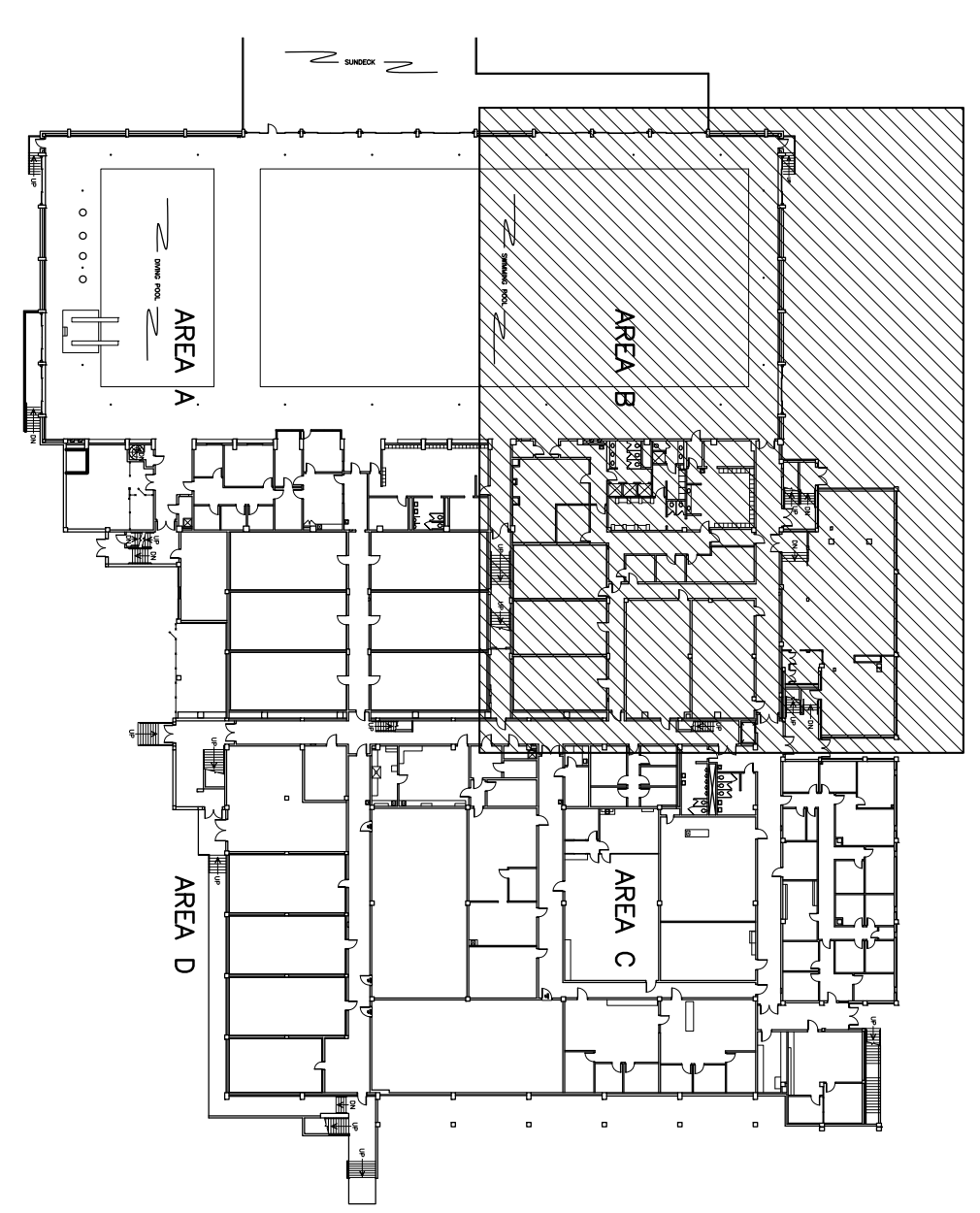


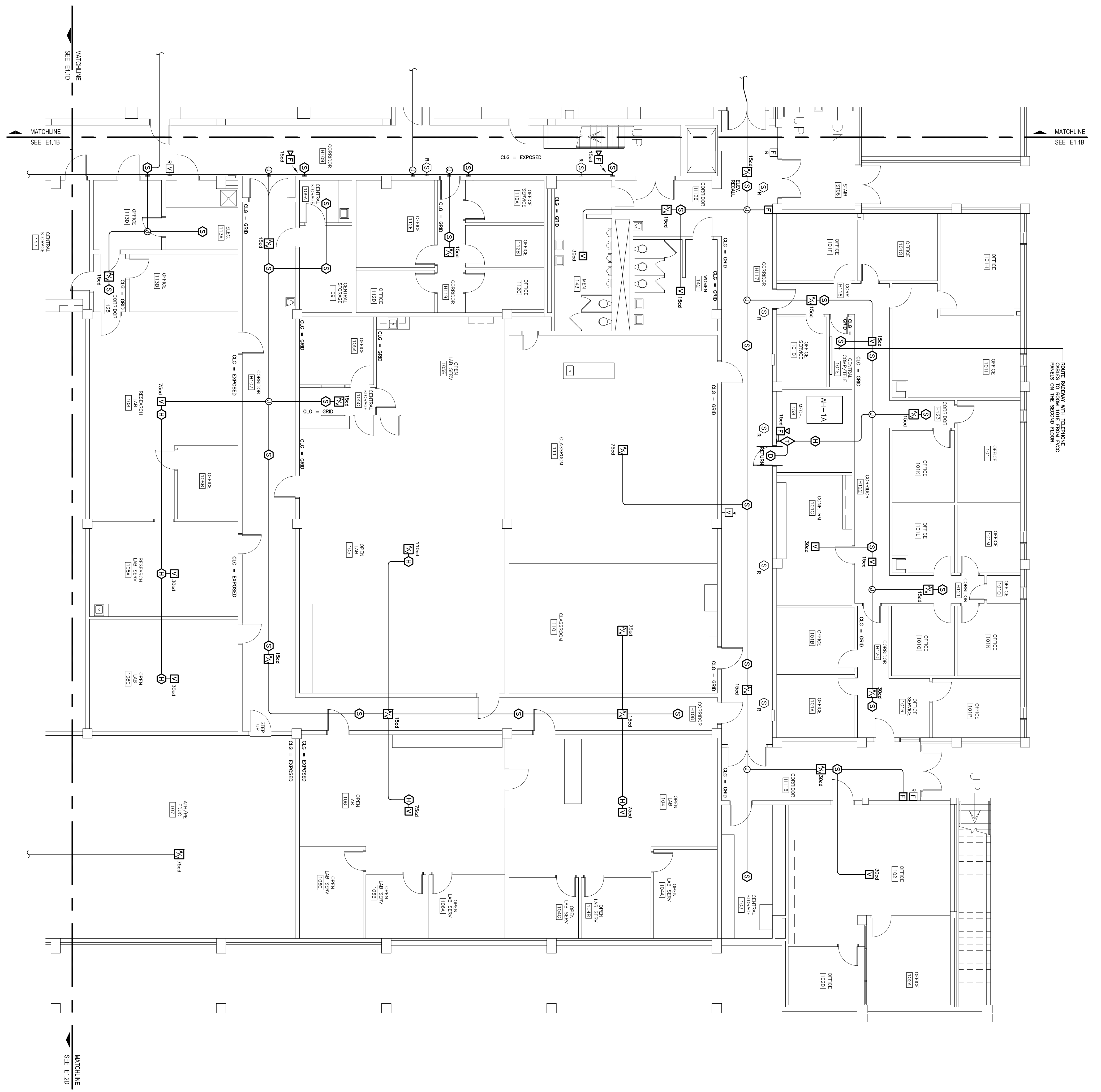


NOTES:
 JUNCTION BOXES SHOWN IN THIS ROOM SHALL ONLY BE SHOWN AS POINTS OF INTERFERENCE. THERE SHALL BE NO SPLICES/JUNCTIONS OR WIRE IN THESE BOXES. JUNCTION BOXES IN THIS ROOM SHALL BE WEATHERPROOF CAST-METAL TYPE WITH THREADED HUBS.
 ALL CONDUIT IN THIS ROOM SHALL BE RMC TYPE (GALVANIZED RIGID STEEL) WITH THREADED FITTINGS.

1 FIRST FLOOR FIRE ALARM PLAN - AREA B
 SCALE: 1/8" = 1'-0"

- NOTES
- RACEWAY ROUTINGS SHOWN ON PLAN ARE TO BE USED TO DEVELOP SHOP DRAWINGS FOR FIRE ALARM DETECTION AND NOTIFICATION SYSTEM WIRING.
 - RACEWAYS FOR POWER WIRING TO TRANSDUCER PANELS ARE NOT INDICATED ON PLAN, BUT SHALL BE PROVIDED AS NOTED ON DRAWING E0.2 (FIELD TO ROUTE).
 - RISER RACEWAYS FOR FIRE ALARM RISER, JUNCTION BOXES AND TRANSDUCER CONTROL PANELS ARE NOT INDICATED ON PLAN, BUT SHALL BE PROVIDED AS NOTED ON DRAWING E0.2 (FIELD TO ROUTE).

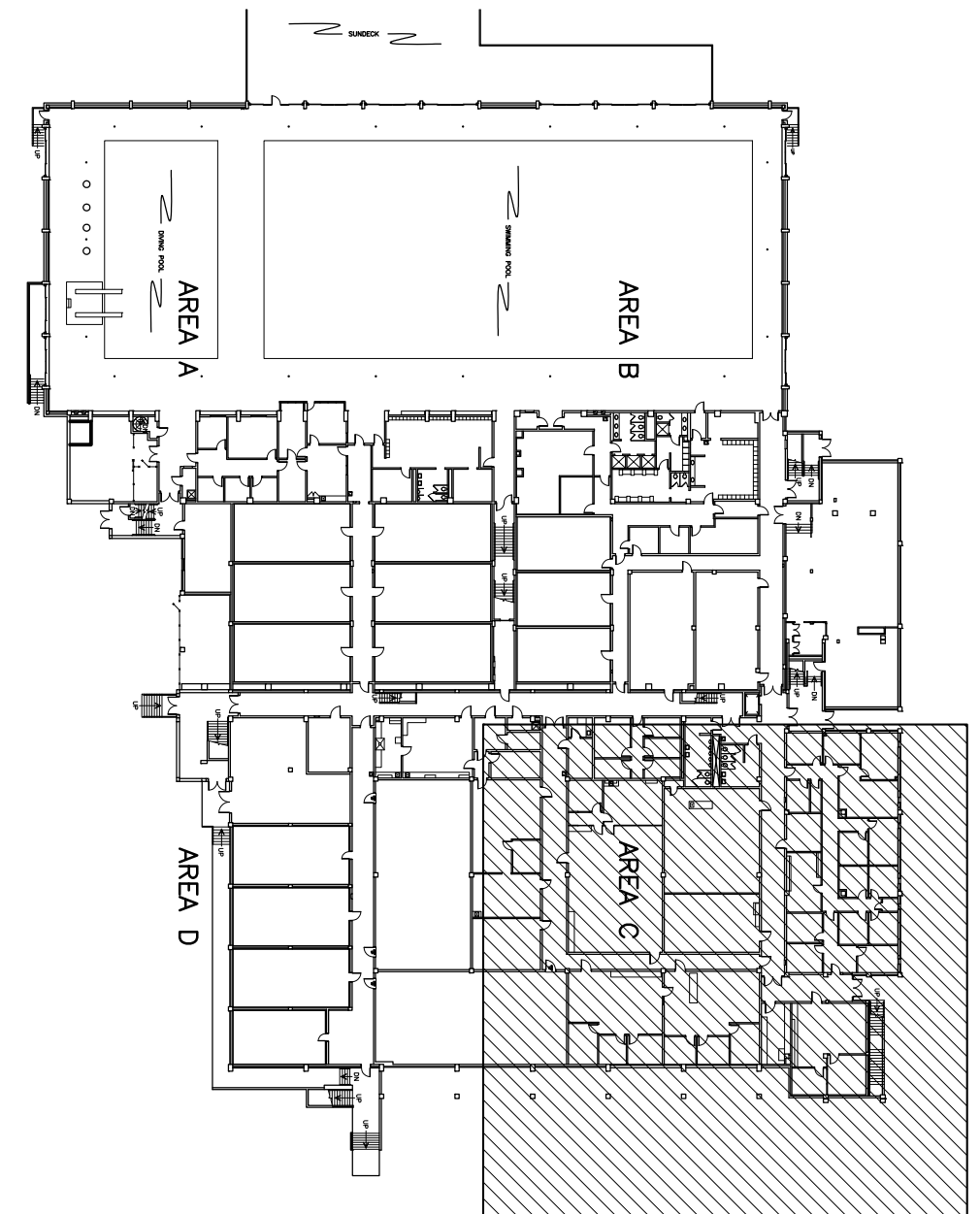




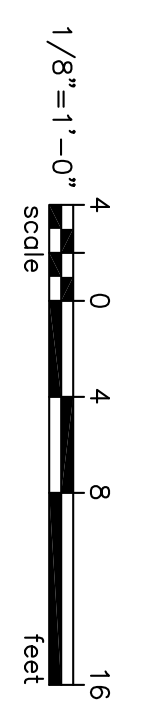
FIELD NOTES AND REVISIONS
 SHALL BE KEPT WITH THE DRAWING
 FILES ON THE RECORD BOOK.

1 FIRST FLOOR FIRE ALARM PLAN - AREA C
 SCALE: 1/8" = 1'-0"

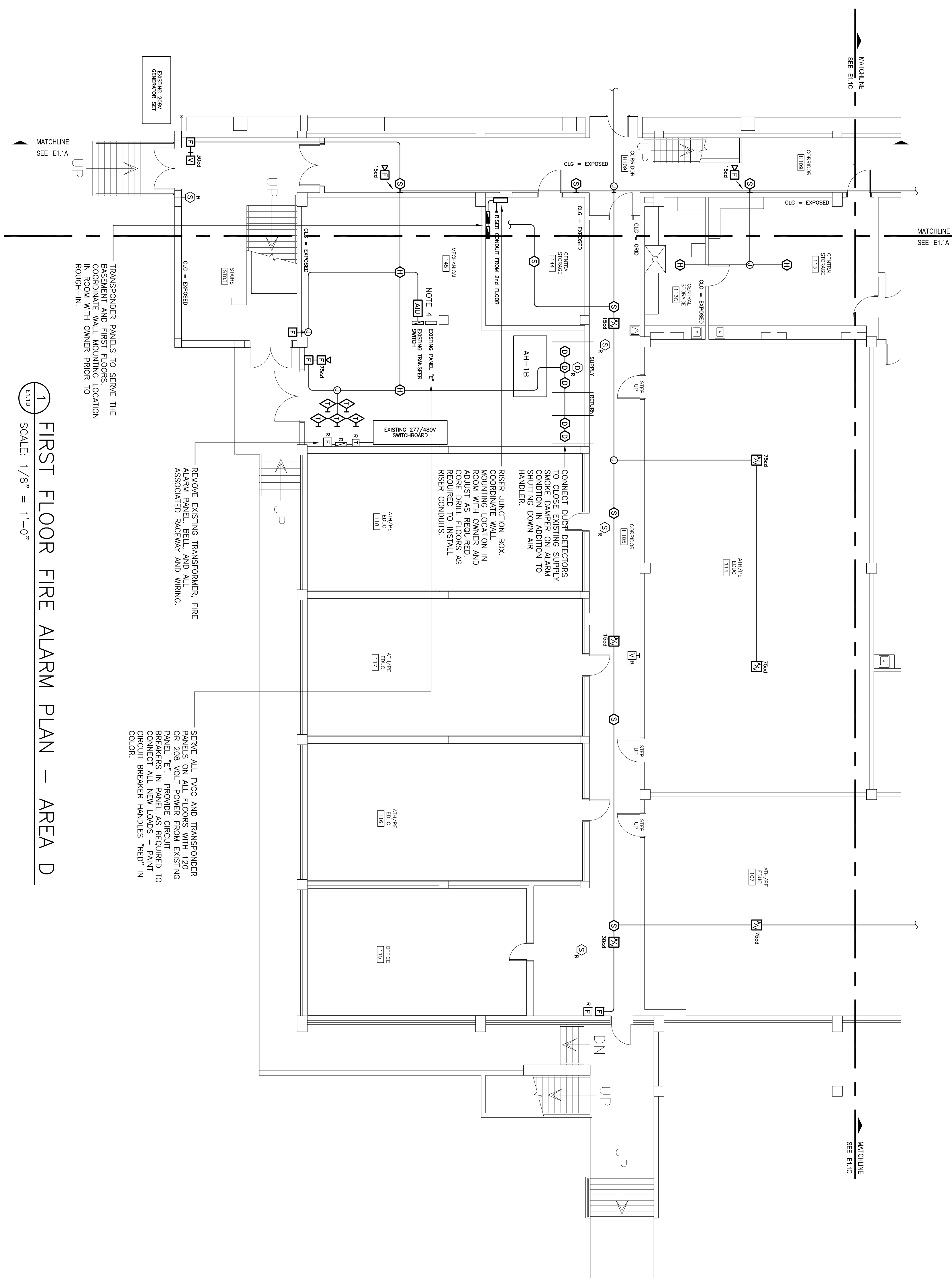
- NOTES**
1. REVERSE ROUTINGS SHOWN ON PLAN ARE TO BE USED TO ORIGINATE SHOP DRAWINGS FOR FIRE ALARM DETECTION AND NOTIFICATION SYSTEM WIRING.
 2. REVERSE FOR POWER WIRING TO TRANSDUCER PAINS ARE NOT INDICATED ON PLAN, BUT SHALL BE PROVIDED AS NOTED ON DRAWING E02 (FIELD TO ROUTE).
 3. RISER DRAWINGS FOR FIRE ALARM RISER JUNCTION BOXES AND TRANSDUCER PAINS SHALL BE PROVIDED AS NOTED ON DRAWING E02 (FIELD TO ROUTE).



KEYPLAN
 NOT TO SCALE



<p>University of South Carolina</p>	PROJECT TITLE: BLATT PE CENTER FIRE ALARM UPGRADES State Project H27-1851	BUILDING: 138 REV.	DRAWING: DESCRIPTION	DATE: 18 SEP 12	DRAWN BY: JWJ DATE	CHECKED BY: JWJ ORIG. BY: DRAWN BY	SEAL:		<p>US21016 7 CLUSTERS COURT, SUITE 201 COLUMBIA, SOUTH CAROLINA 29210 (803) 731-0650 fax (803) 731-2880 EMAIL: jwland@bellsouth.net</p>	OFFICE OF FACILITIES MANAGEMENT COLUMBIA, SC 29208
	SHEET: E1.1C OF	SHEET IN SET: 07 OF 18								



1 FIRST FLOOR FIRE ALARM PLAN - AREA D
SCALE: 1/8" = 1'-0"

TRANSFORMER PANELS TO SERVE THE BASEMENT AND FIRST FLOORS. CAUTION IN ROOM WITH OWNER PROOF TO TOUCH-IN.

REMOVE EXISTING TRANSFORMER, FIRE ASSOCIATED REWAY AND WIRING.

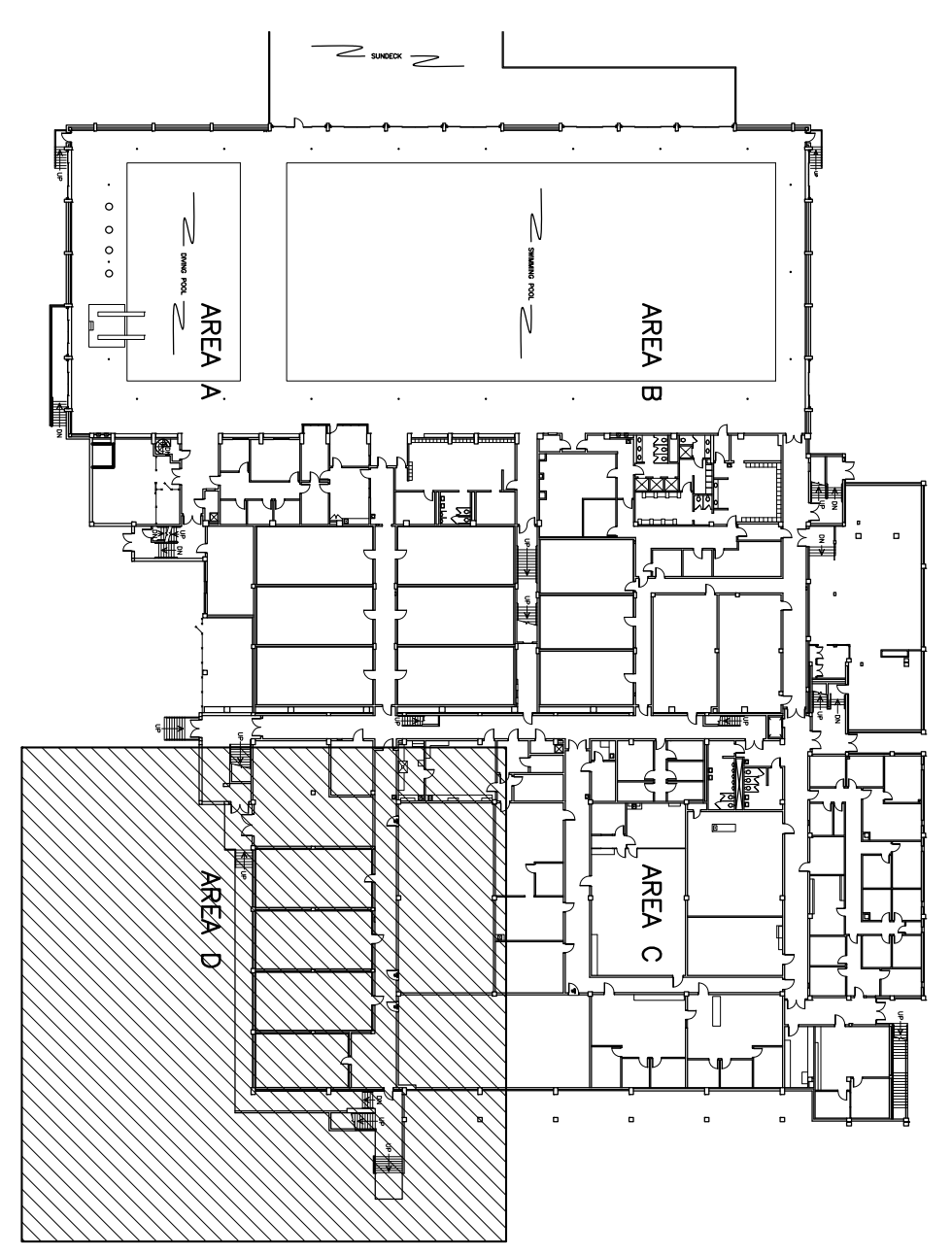
SERVE ALL FACP AND TRANSFORMER FROM EXISTING 208 VOLT POWER FROM EXISTING PANEL, 'T'. PROVIDE CIRCUIT CONNECTED TO ALL NEW LOADS. PAINT CIRCUIT BREAKER HANDLES 'RED' IN COLOR.

NOTE 4: EXISTING PANEL 'T' IS MECHANICAL.

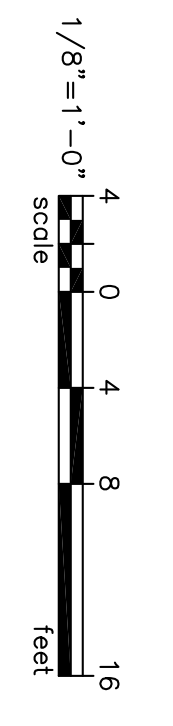
CONNECT DUCT DETECTORS TO CLOSE EXISTING SUPPLY CONDITION IN ADDITION TO SHUTTING DOWN AIR HANDLER.

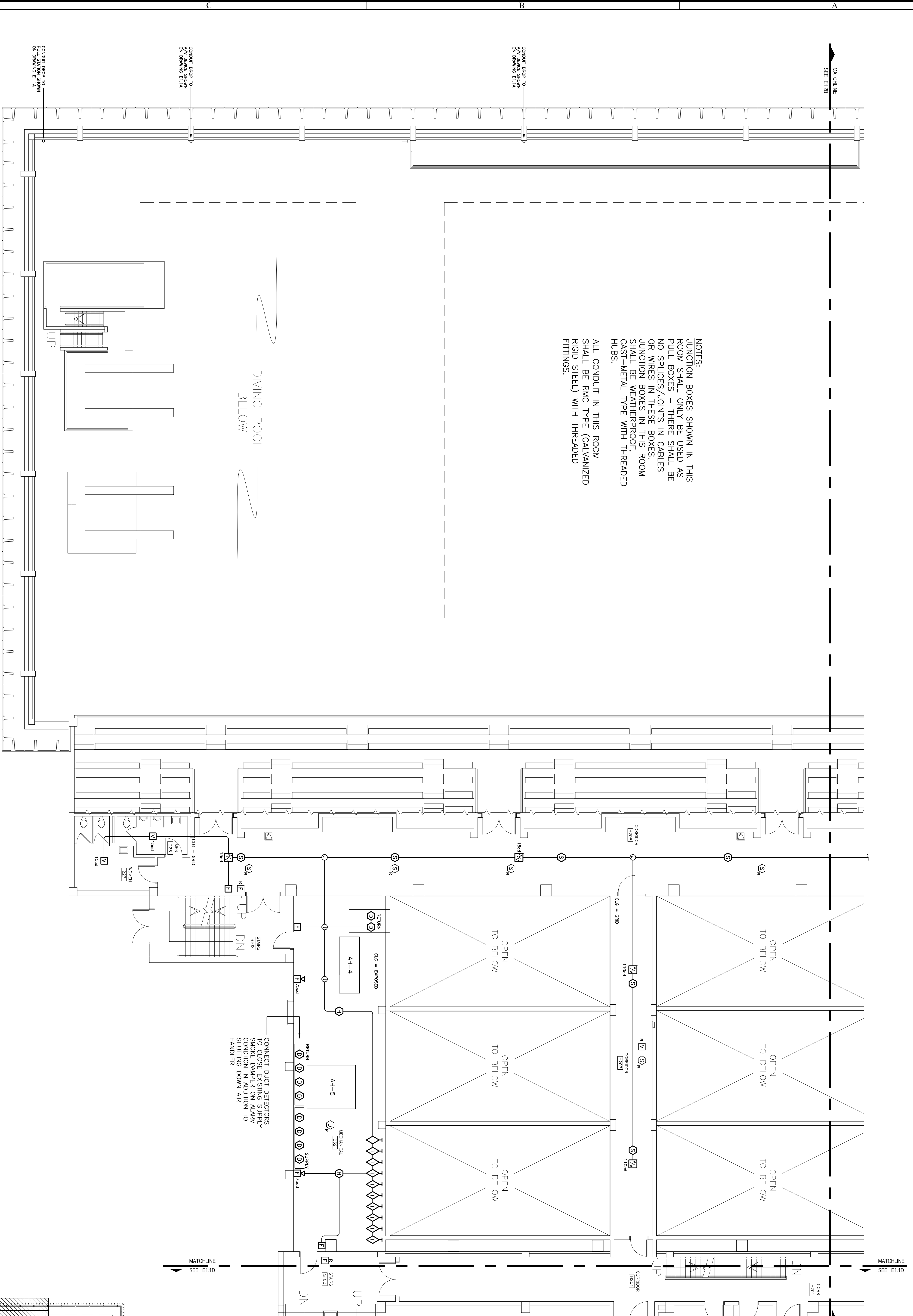
RISER JUNCTION BOX. COORDINATE WALL IN ROOM WITH OWNER AND ADJUST AS REQUIRED. AS REQUIRED, AS REQUIRED TO INSTALL RISER CONDUITS.

- NOTES
1. RACEWAY ROUTINGS SHOWN ON PLAN ARE TO BE USED TO DEVELOP SHOP DRAWINGS FOR FIRE ALARM DETECTION AND NOTIFICATION SYSTEM WIRING.
 2. RACEWAYS FOR POWER WIRING TO TRANSFORMER PANELS ARE NOT INDICATED ON PLAN, BUT SHALL BE PROVIDED AS NOTED ON DRAWING E02 (FIELD TO ROUTE). RISER RACEWAYS FOR FIRE ALARM RISER JUNCTION BOXES AND TRANSFORMER CONTROL PANELS ARE NOT INDICATED ON PLAN, BUT SHALL BE PROVIDED AS NOTED ON DRAWING E02 (FIELD TO ROUTE).
 3. PROVIDE CONNECTION TO EXISTING GENERATOR TRANSFER SWITCH TO MONITOR COMMON TROUBLE CONTACT.



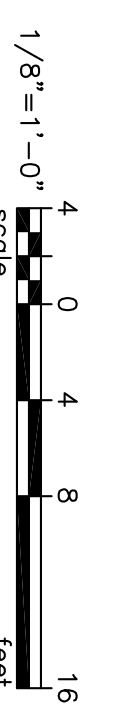
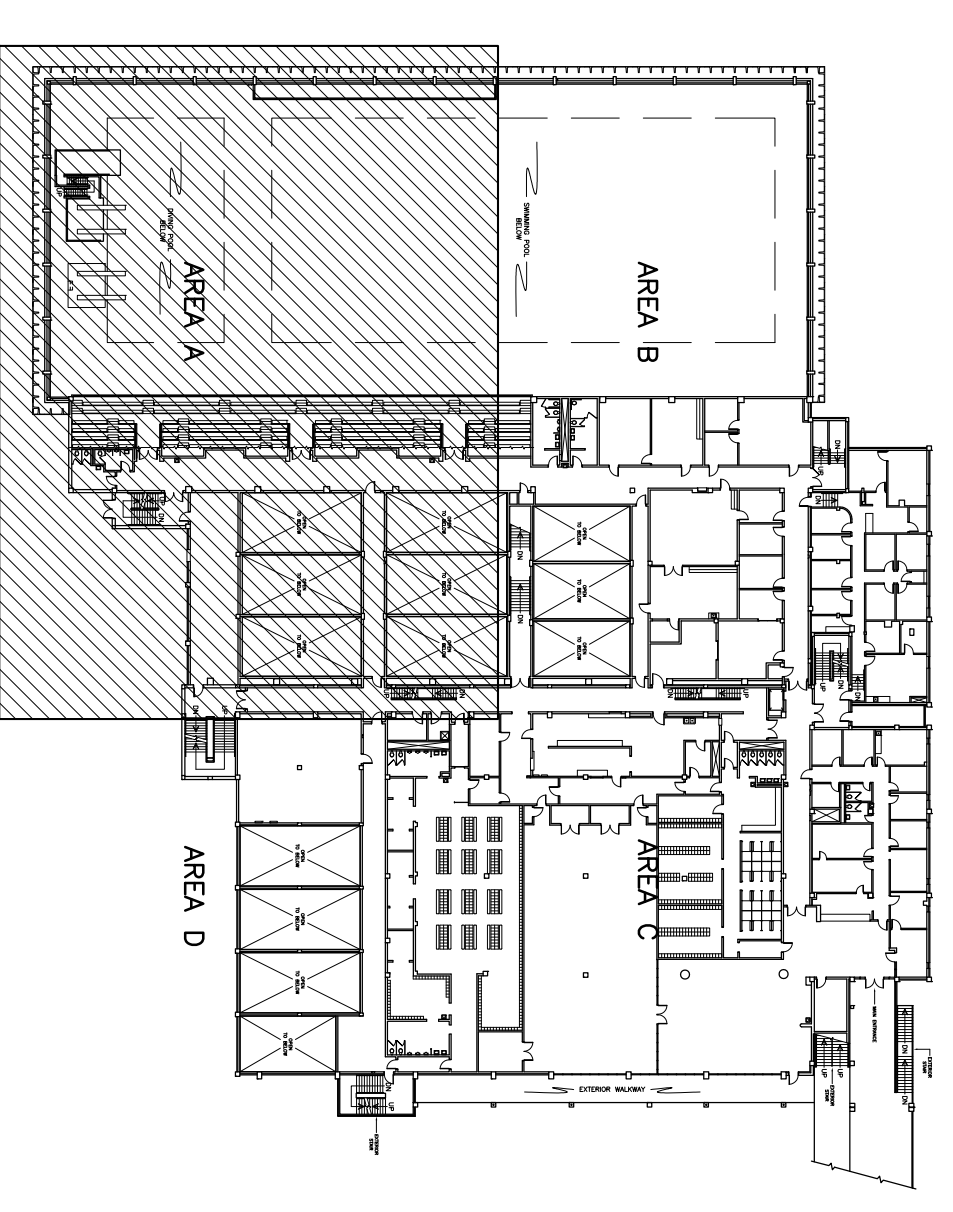
KEYPLAN
NOT TO SCALE



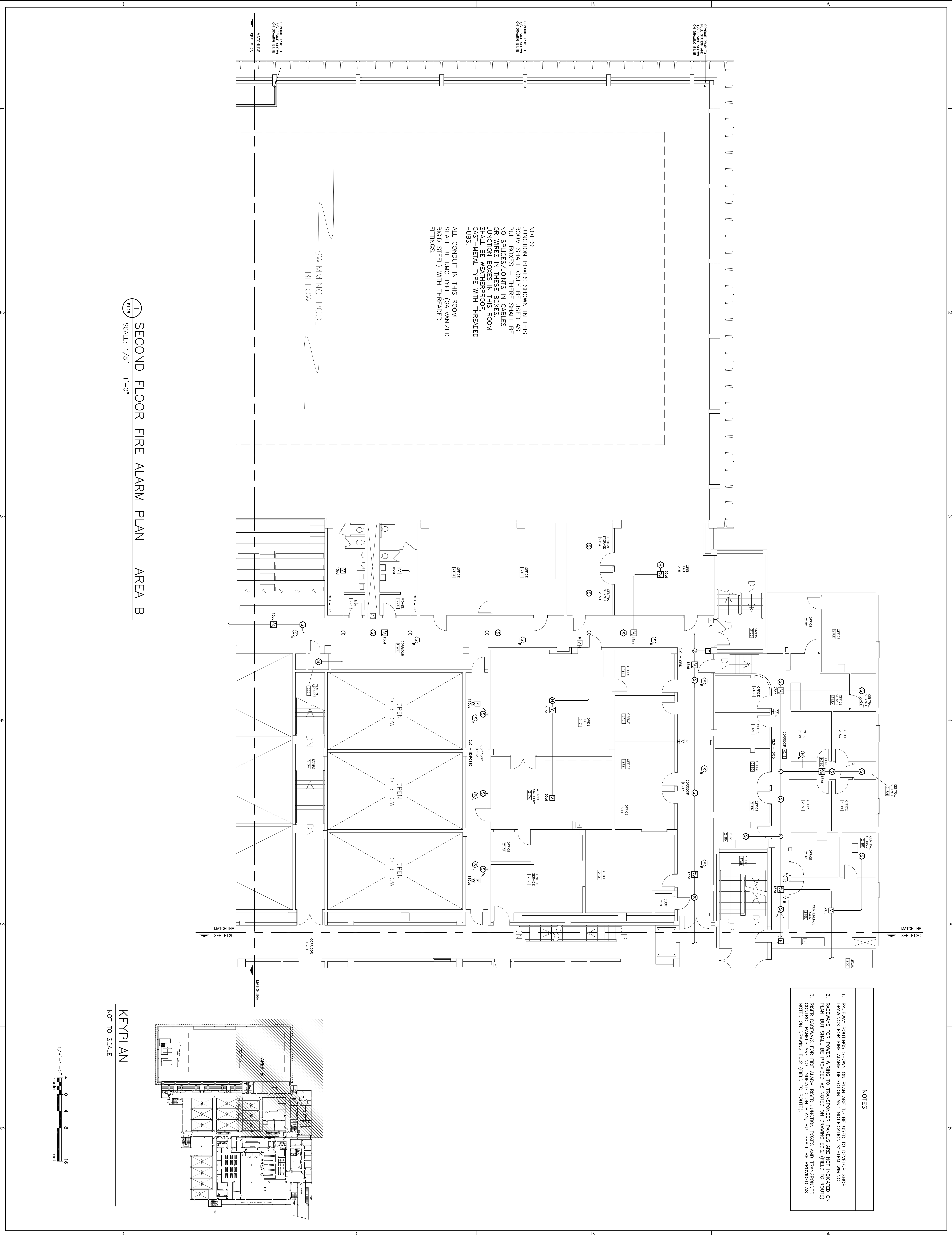


NOTES:
 1. JUNCTION BOXES SHOWN IN THIS ROOM SHALL BE USED AS PULL BOXES. THERE SHALL BE NO SPLICES/JUNCTIONS IN CABLES OR WIRES IN THESE BOXES.
 2. JUNCTION BOXES IN THIS ROOM SHALL BE WEATHERPROOF, CAST-METAL TYPE WITH THREADED HUBS.
 3. ALL CONDUIT IN THIS ROOM SHALL BE RMC TYPE (GALVANIZED RIGID STEEL) WITH THREADED FITTINGS.

1 SECOND FLOOR FIRE ALARM PLAN - AREA A
 SCALE: 1/8" = 1'-0"



- NOTES
1. PRACTICE ROUTINGS SHOWN ON PLAN ARE TO BE USED TO DEVELOP SHOP DRAWINGS FOR FIRE ALARM DETECTION AND NOTIFICATION SYSTEM WIRING.
 2. PRACTICES FOR POWER WIRING TO TRANSDUCER PANELS ARE NOT INDICATED ON PLAN, BUT SHALL BE PROVIDED AS NOTED ON DRAWING E0.2 (FIELD TO ROUTE).
 3. RISER RACKINGS FOR FIRE ALARM SENSE, JUNCTION BOXES AND TRANSDUCER CONTROL PANELS ARE NOT INDICATED ON PLAN, BUT SHALL BE PROVIDED AS NOTED ON DRAWING E0.2 (FIELD TO ROUTE).

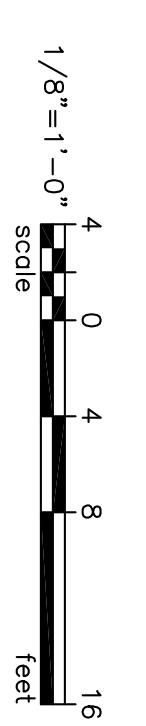
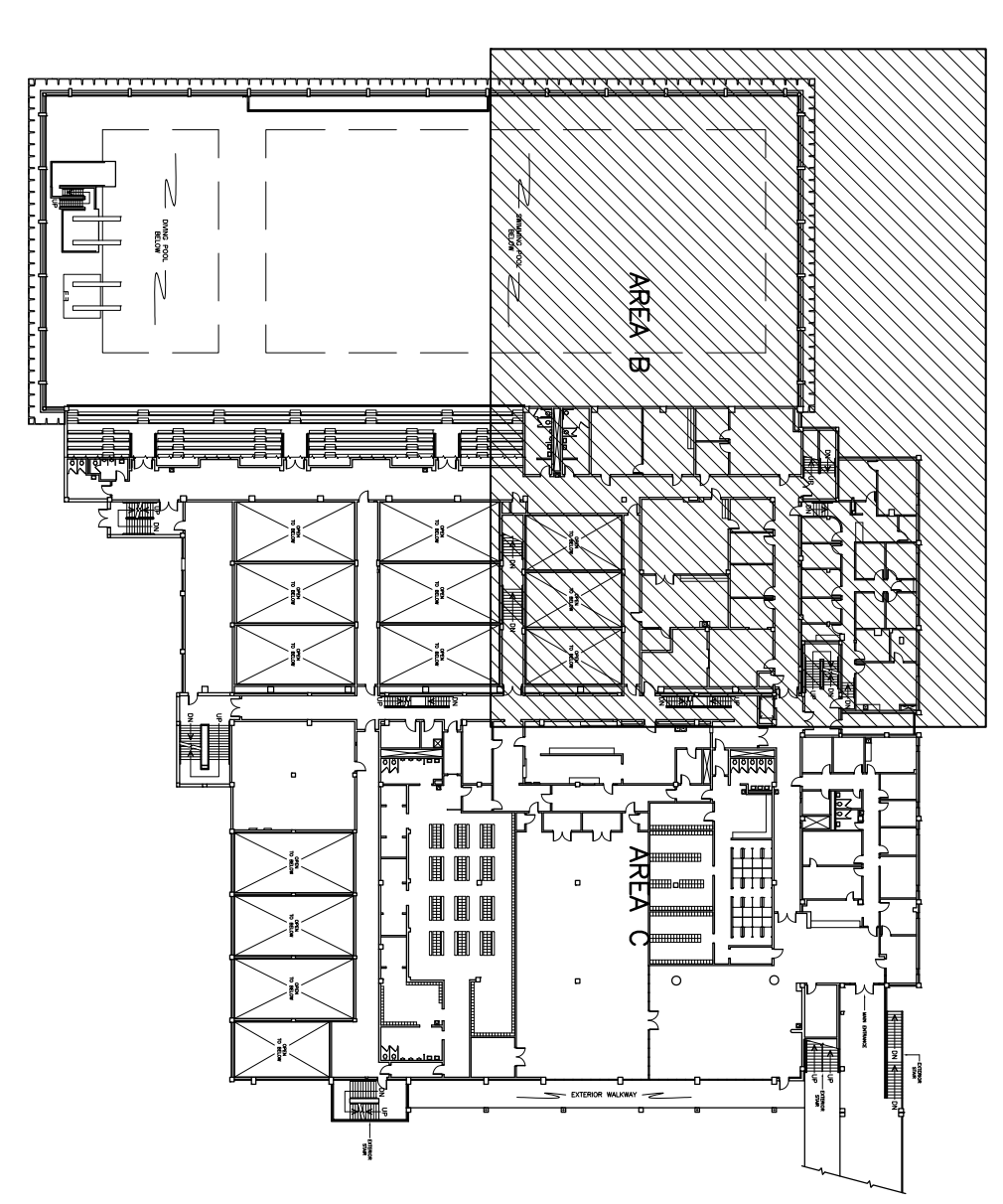


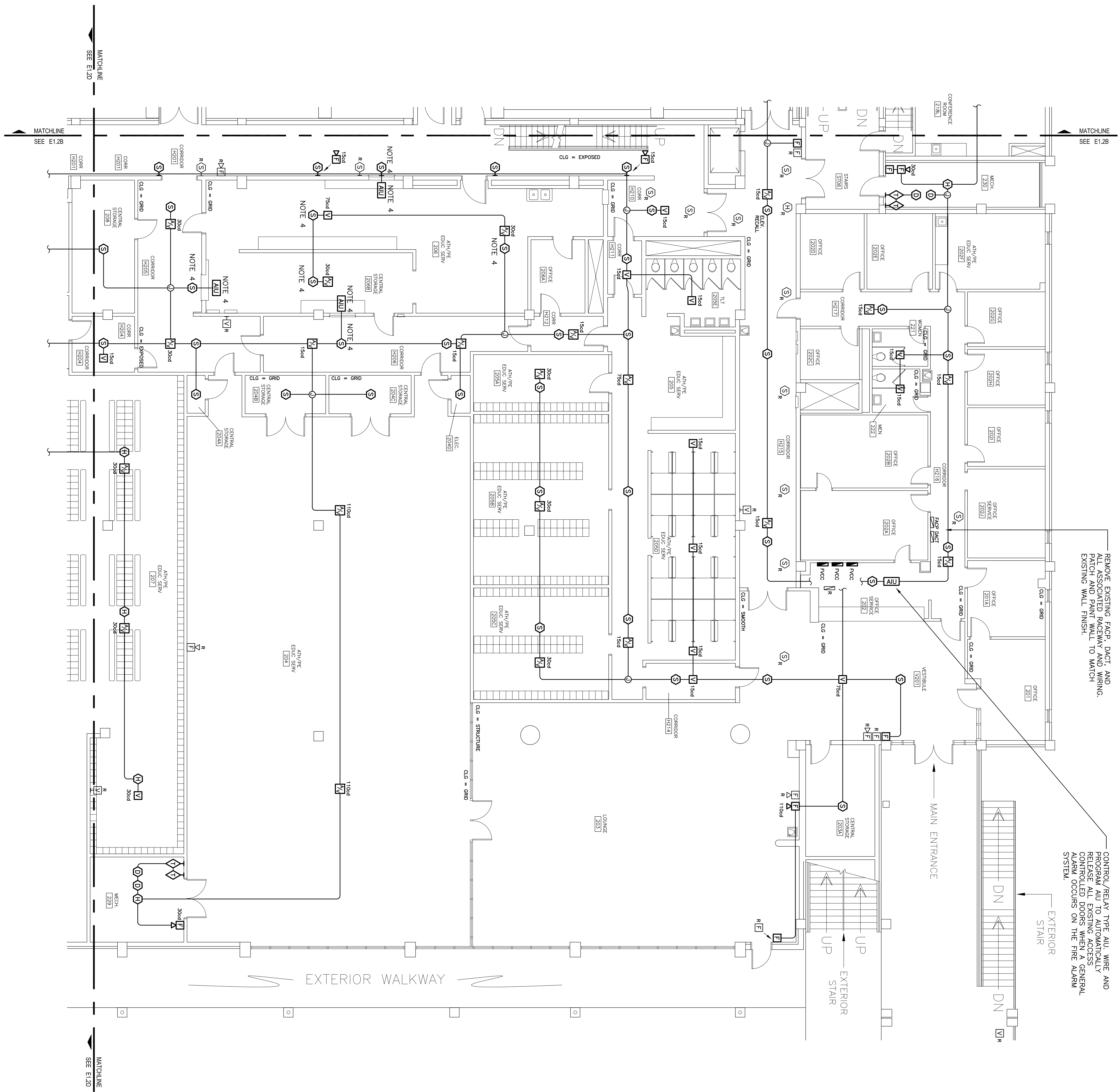
NOTES:
 JUNCTION BOXES SHOWN IN THIS ROOM SHALL ONLY BE USED AS PULL BOXES - THERE SHALL BE NO SPLICES/JOINTS IN CABLES OR WIRES IN THESE BOXES. JUNCTION BOXES IN THIS ROOM SHALL BE WEATHERPROOF, CAST-METAL TYPE WITH THREADED HUBS.
 ALL CONDUIT IN THIS ROOM SHALL BE RMC TYPE (GALVANIZED RIGID STEEL) WITH THREADED FITTINGS.

SWIMMING POOL BELOW

1 SECOND FLOOR FIRE ALARM PLAN - AREA B
 SCALE: 1/8" = 1'-0"

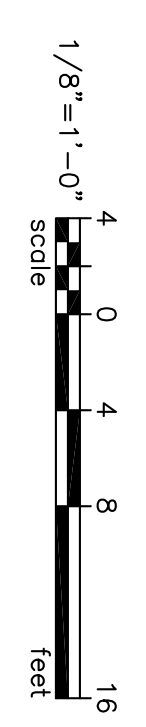
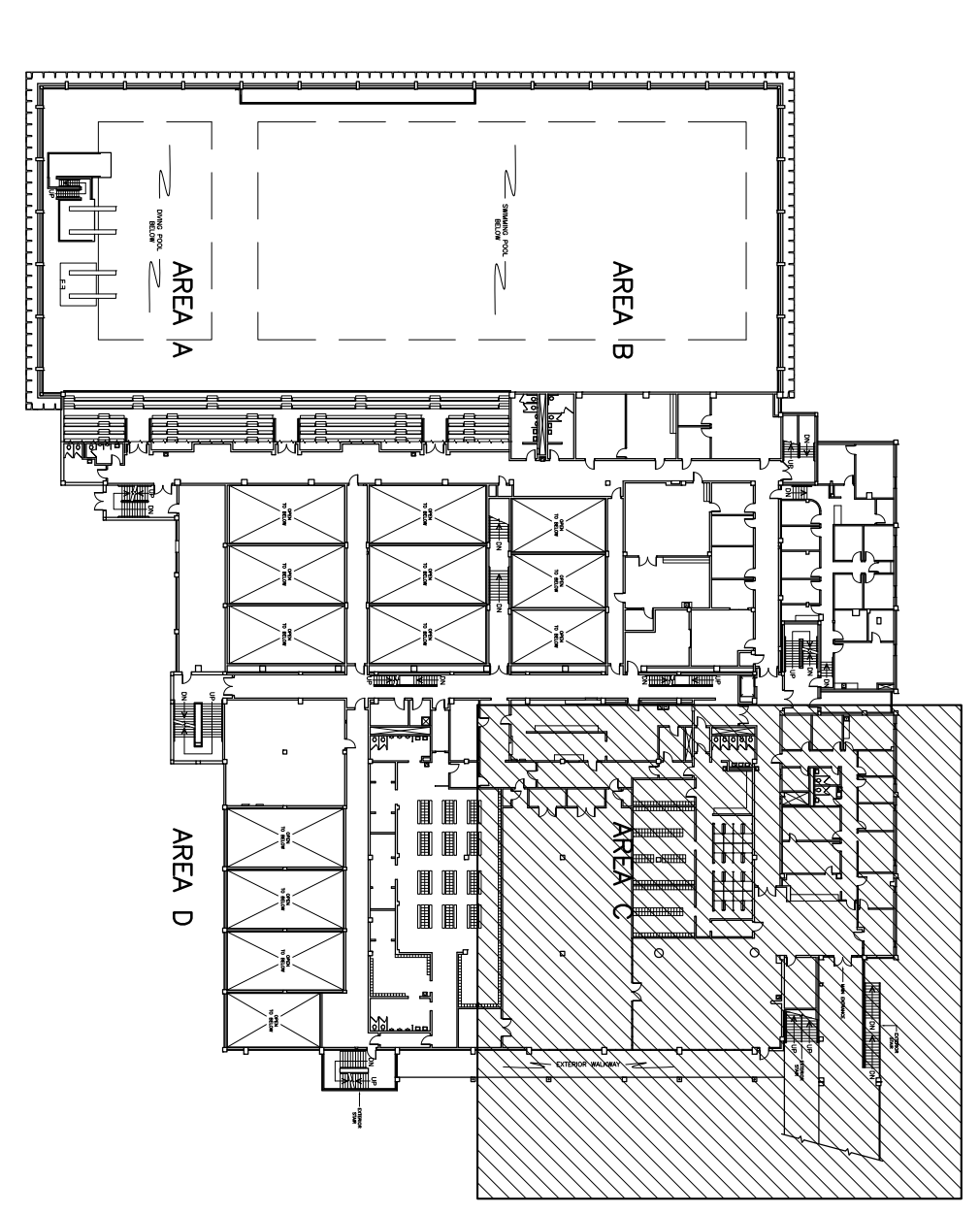
- NOTES
1. RACEWAY ROUTINGS SHOWN ON PLAN ARE TO BE USED TO DEVELOP SHOP DRAWINGS FOR FIRE ALARM DETECTION AND NOTIFICATION SYSTEM WIRING.
 2. RACEWAYS FOR POWER WIRING TO TRANSDUCER PANELS ARE NOT INDICATED ON PLAN, BUT SHALL BE PROVIDED AS NOTED ON DRAWING E0.2 (FIELD TO ROUTE).
 3. RISER RACEWAYS FOR FIRE ALARM RISER JUNCTION BOXES AND TRANSDUCER CONTROL PANELS ARE NOT INDICATED ON PLAN, BUT SHALL BE PROVIDED AS NOTED ON DRAWING E0.2 (FIELD TO ROUTE).

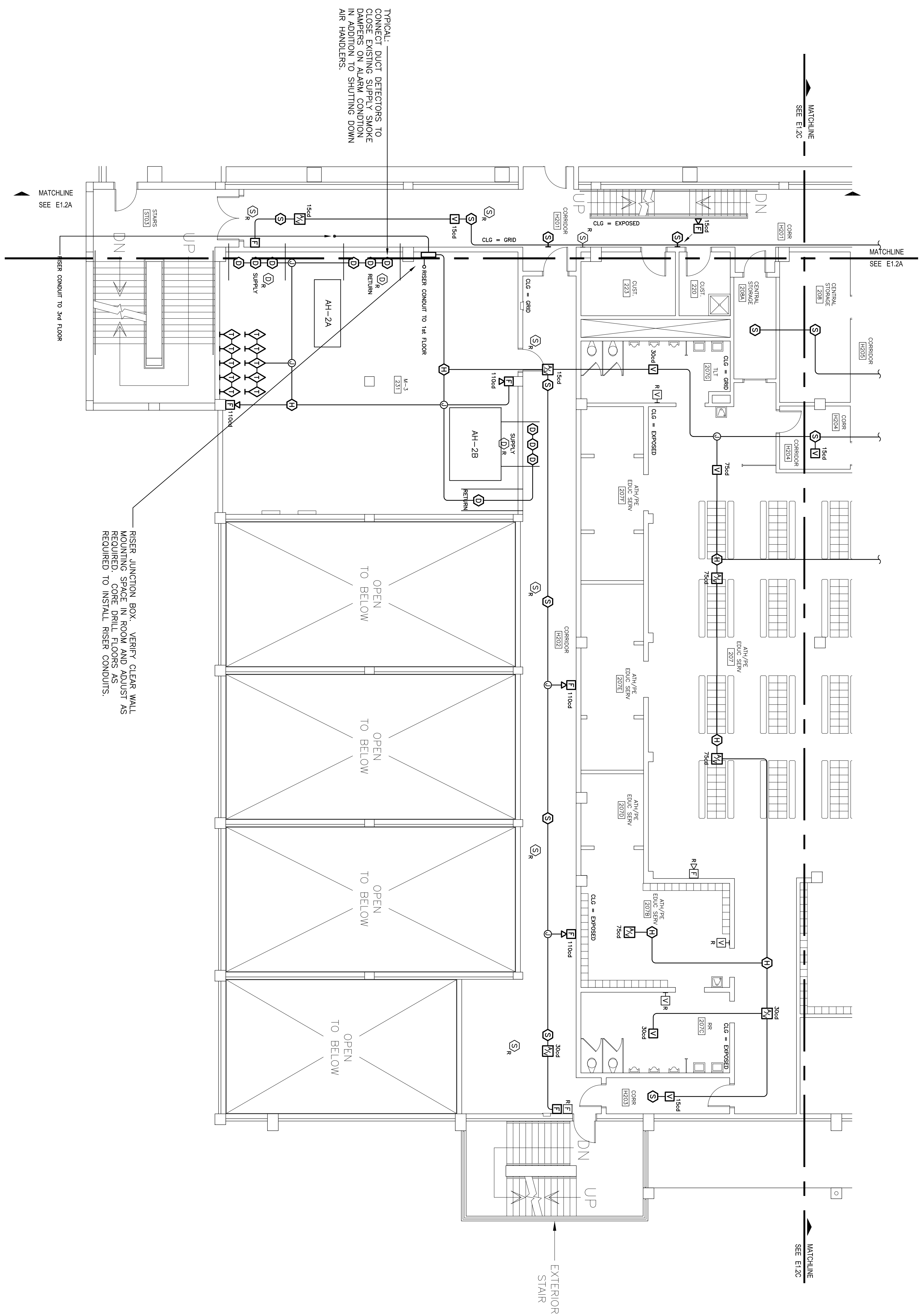




1 SECOND FLOOR FIRE ALARM PLAN - AREA C
 SCALE: 1/8" = 1'-0"

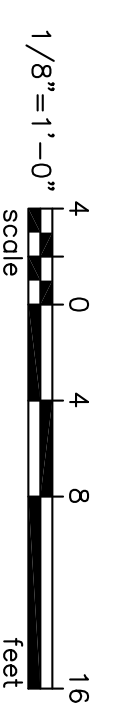
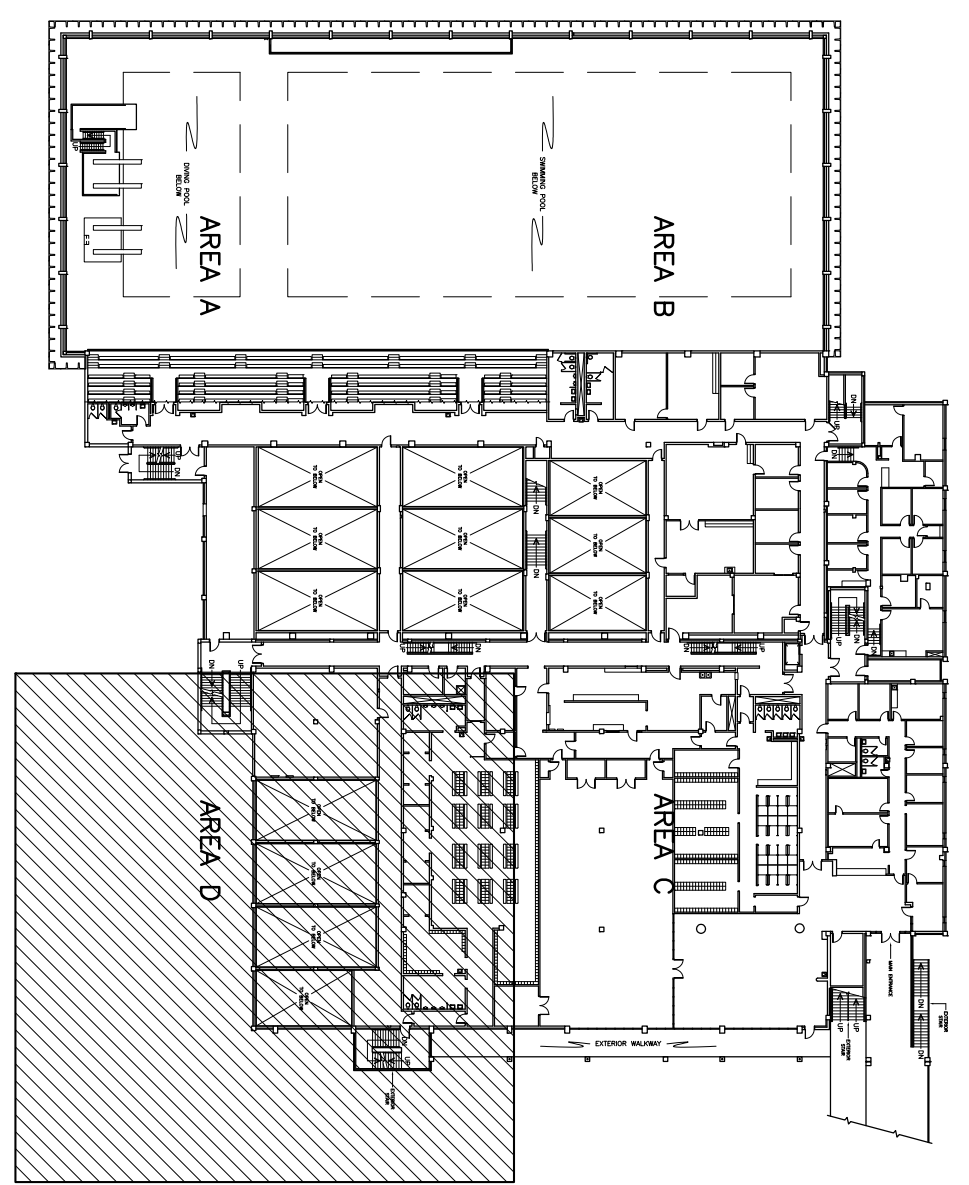
- NOTES
1. RACKING POINTS SHOWN ON PLAN ARE TO BE USED TO SECURE SHIP DRAWINGS FOR FIRE ALARM DETECTION AND NOTIFICATION SYSTEM WIRING.
 2. RACKWAYS FOR POWER WIRING TO TRANSFORMER PANELS ARE NOT INDICATED ON PLAN, BUT SHALL BE PROVIDED AS NOTED ON DRAWING E02 (FIELD TO ROUTE).
 3. RISER RACKWAYS FOR FIRE ALARM RISER JUNCTION BOXES AND TRANSFORMER NOTED ON DRAWING E02 (FIELD TO ROUTE).
 4. CONNECT AND PROGRAM SMOKE DETECTORS AND AU'S REFERENCED TO THIS NOTE TO AUTOMATICALLY SHUT EXISTING ROLL-UP FIRE DOOR/WINDOWS.

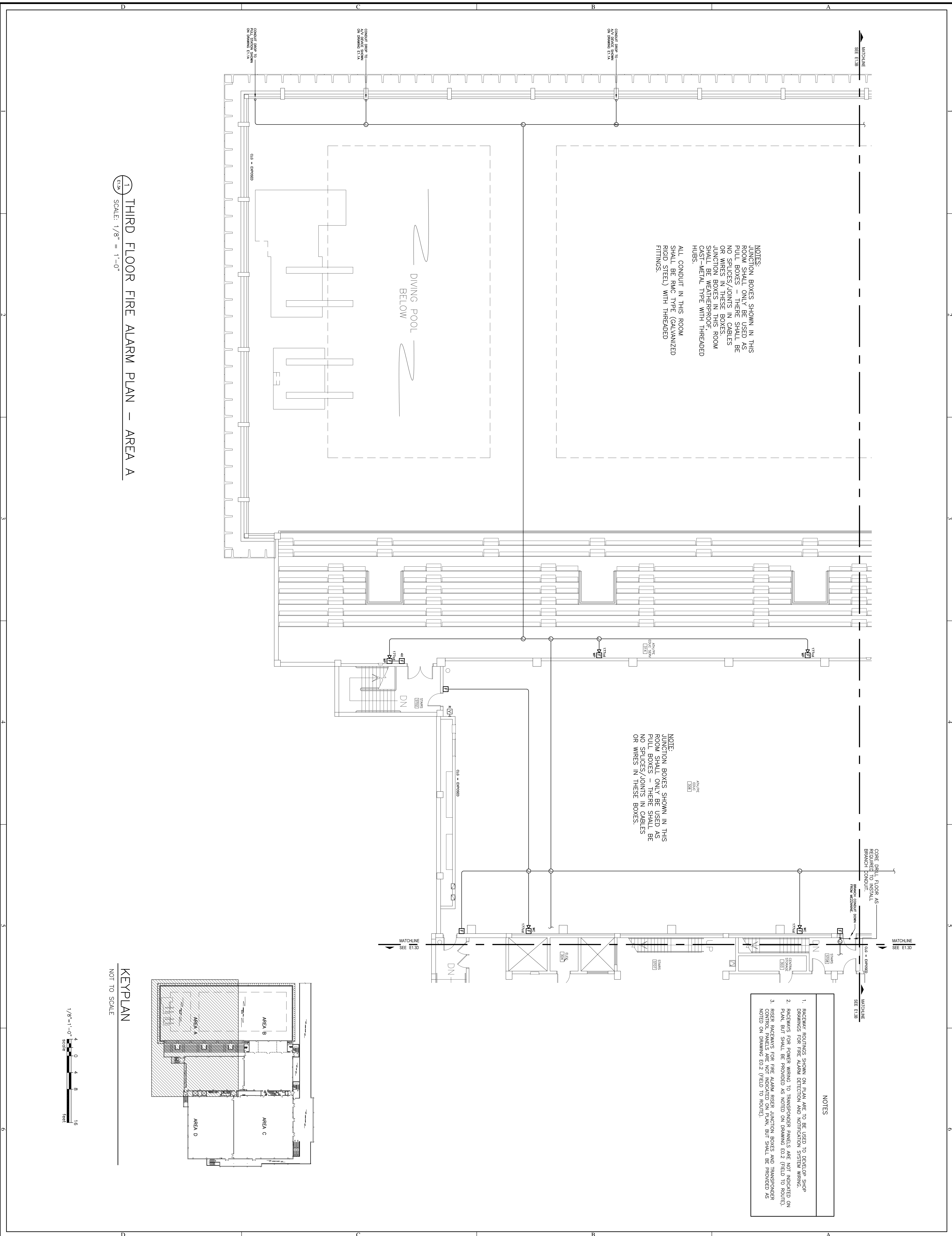




1 SECOND FLOOR FIRE ALARM PLAN - AREA D
SCALE: 1/8" = 1'-0"

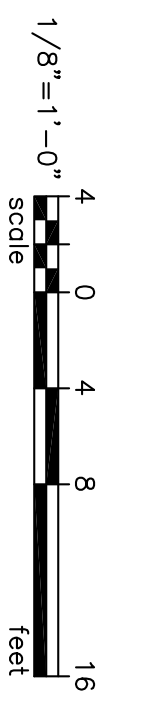
- NOTES
1. RACEWAY ROUTINGS SHOWN ON PLAN ARE TO BE USED TO DEVELOP SHOP DRAWINGS FOR FIRE ALARM DETECTION AND NOTIFICATION SYSTEM WIRING.
 2. RACEWAYS FOR POWER WIRING TO TRANSDUCER PANELS ARE NOT INDICATED ON PLAN, BUT SHALL BE PROVIDED AS NOTED ON DRAWING E02 (FIELD TO ROUTE).
 3. RISER RACEWAYS FOR FIRE ALARM RISER JUNCTION BOXES AND TRANSDUCER CONTROL PANELS ARE NOT INDICATED ON PLAN, BUT SHALL BE PROVIDED AS NOTED ON DRAWING E02 (FIELD TO ROUTE).





1 THIRD FLOOR FIRE ALARM PLAN - AREA A
 SCALE: 1/8" = 1'-0"

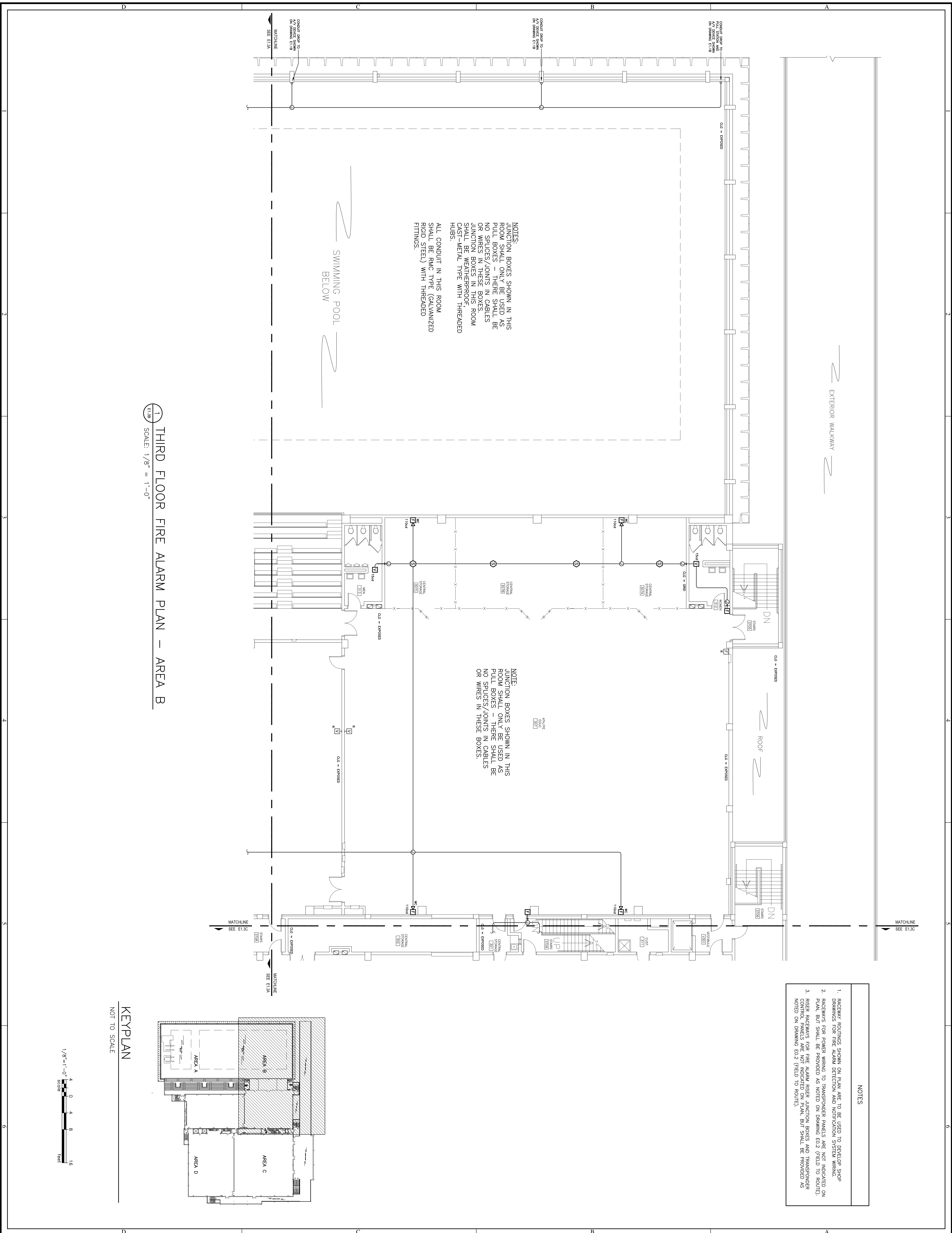
KEYPLAN
 NOT TO SCALE



NOTES:
 JUNCTION BOXES SHOWN IN THIS ROOM SHALL ONLY BE USED AS PULL BOXES - THERE SHALL BE NO SPLICES/JOINTS IN CABLES OR WIRES IN THESE BOXES. JUNCTION BOXES IN THIS ROOM SHALL BE WEATHERPROOF, CAST-METAL TYPE WITH THREADED HUBS.
 ALL CONDUIT IN THIS ROOM SHALL BE RMC TYPE (GALVANIZED RIGID STEEL) WITH THREADED FITTINGS.

NOTE:
 JUNCTION BOXES SHOWN IN THIS ROOM SHALL ONLY BE USED AS PULL BOXES - THERE SHALL BE NO SPLICES/JOINTS IN CABLES OR WIRES IN THESE BOXES.

- NOTES
1. RACEWAY ROUTINGS SHOWN ON PLAN ARE TO BE USED TO DEVELOP SHOP DRAWINGS FOR FIRE ALARM DETECTION AND NOTIFICATION SYSTEM WIRING.
 2. RACEWAYS FOR POWER WIRING TO TRANSDUCER PANELS ARE NOT INDICATED ON PLAN, BUT SHALL BE PROVIDED AS NOTED ON DRAWING E0.2 (FIELD TO ROUTE).
 3. RISER RACEWAYS FOR FIRE ALARM RISER JUNCTION BOXES AND TRANSDUCER CONTROL PANELS ARE NOT INDICATED ON PLAN, BUT SHALL BE PROVIDED AS NOTED ON DRAWING E0.2 (FIELD TO ROUTE).



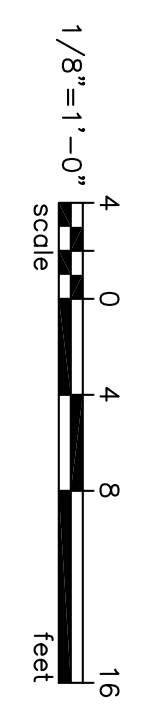
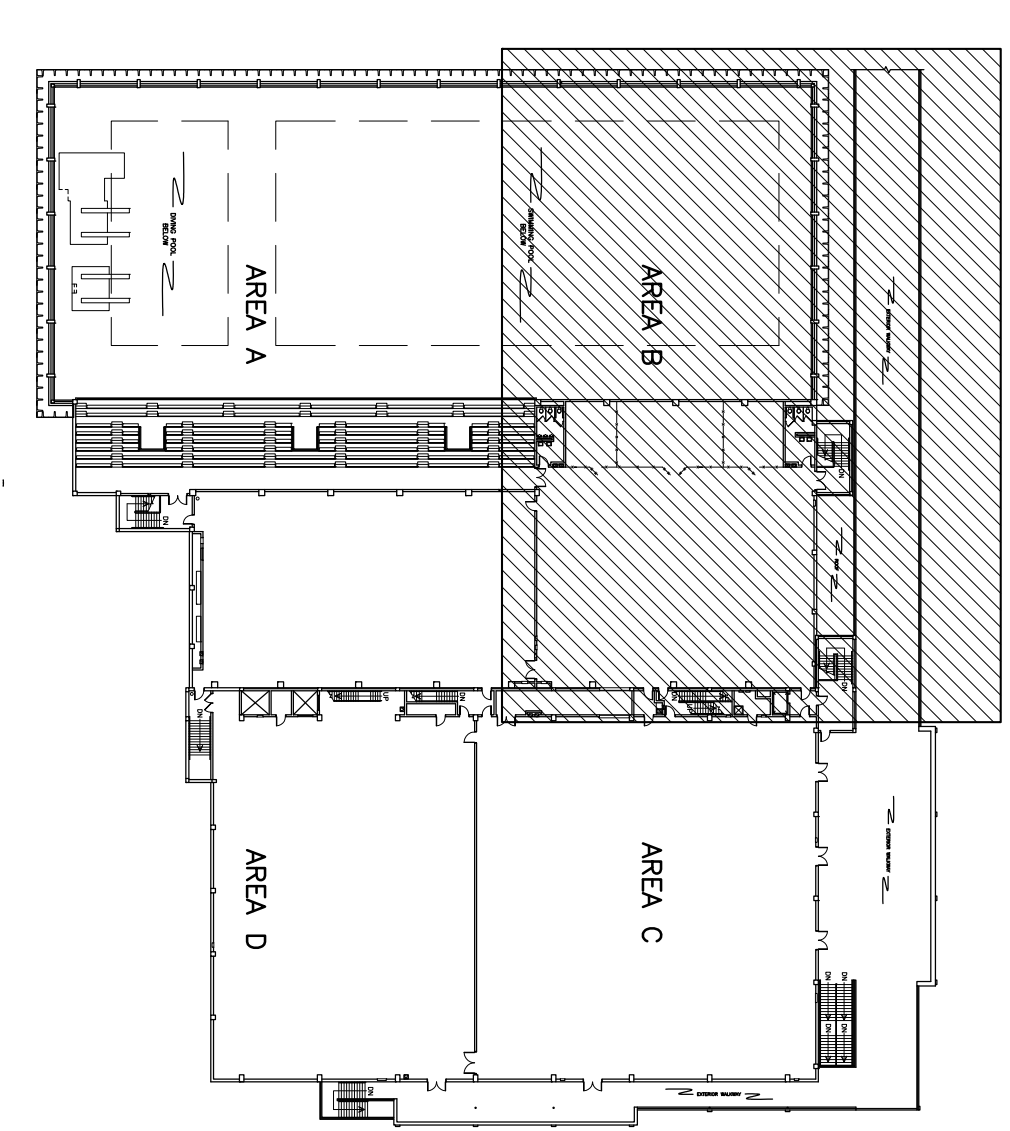
1 THIRD FLOOR FIRE ALARM PLAN — AREA B
 SCALE: 1/8" = 1'-0"

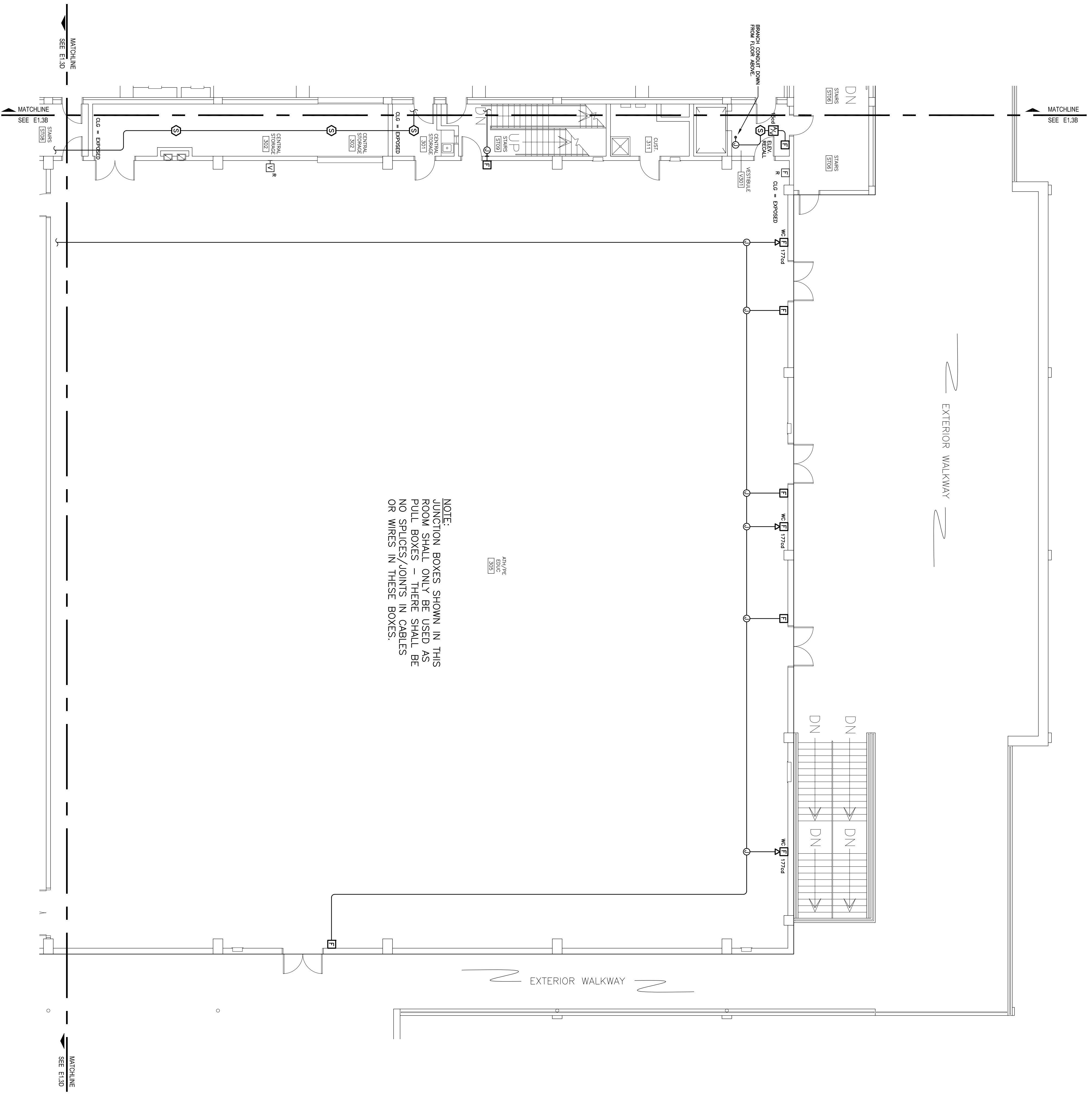
NOTES:
 JUNCTION BOXES SHOWN IN THIS ROOM SHALL ONLY BE USED AS PULL BOXES — THERE SHALL BE NO SPLICES/JOINTS IN CABLES OR WIRES IN THESE BOXES. JUNCTION BOXES IN THIS ROOM SHALL BE WEATHERPROOF, CAST-METAL TYPE WITH THREADED HUBS.
 ALL CONDUIT IN THIS ROOM SHALL BE RMC TYPE (GALVANIZED RIGID STEEL) WITH THREADED FITTINGS.

NOTE:
 JUNCTION BOXES SHOWN IN THIS ROOM SHALL ONLY BE USED AS PULL BOXES — THERE SHALL BE NO SPLICES/JOINTS IN CABLES OR WIRES IN THESE BOXES.

- NOTES**
1. RISE/RUN ROUTINGS SHOWN ON PLAN ARE TO BE USED TO PROTECT SHOP DRAWINGS FOR FIRE ALARM DETECTION AND NOTIFICATION SYSTEM WIRING. PLAN SHIT SHALL BE PROVIDED AS NOTED ON DRAWING E0.2 (FIELD TO HOURL).
 2. RISE/RUN ROUTINGS FOR FIRE ALARM RISE/RUN, JUNCTION BOXES AND TRANSDUCER SHALL BE PROVIDED AS NOTED ON DRAWING E0.2 (FIELD TO HOURL).

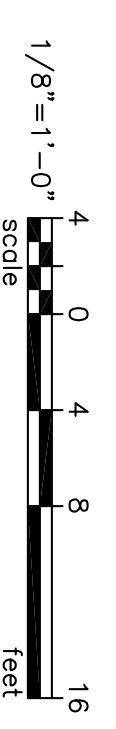
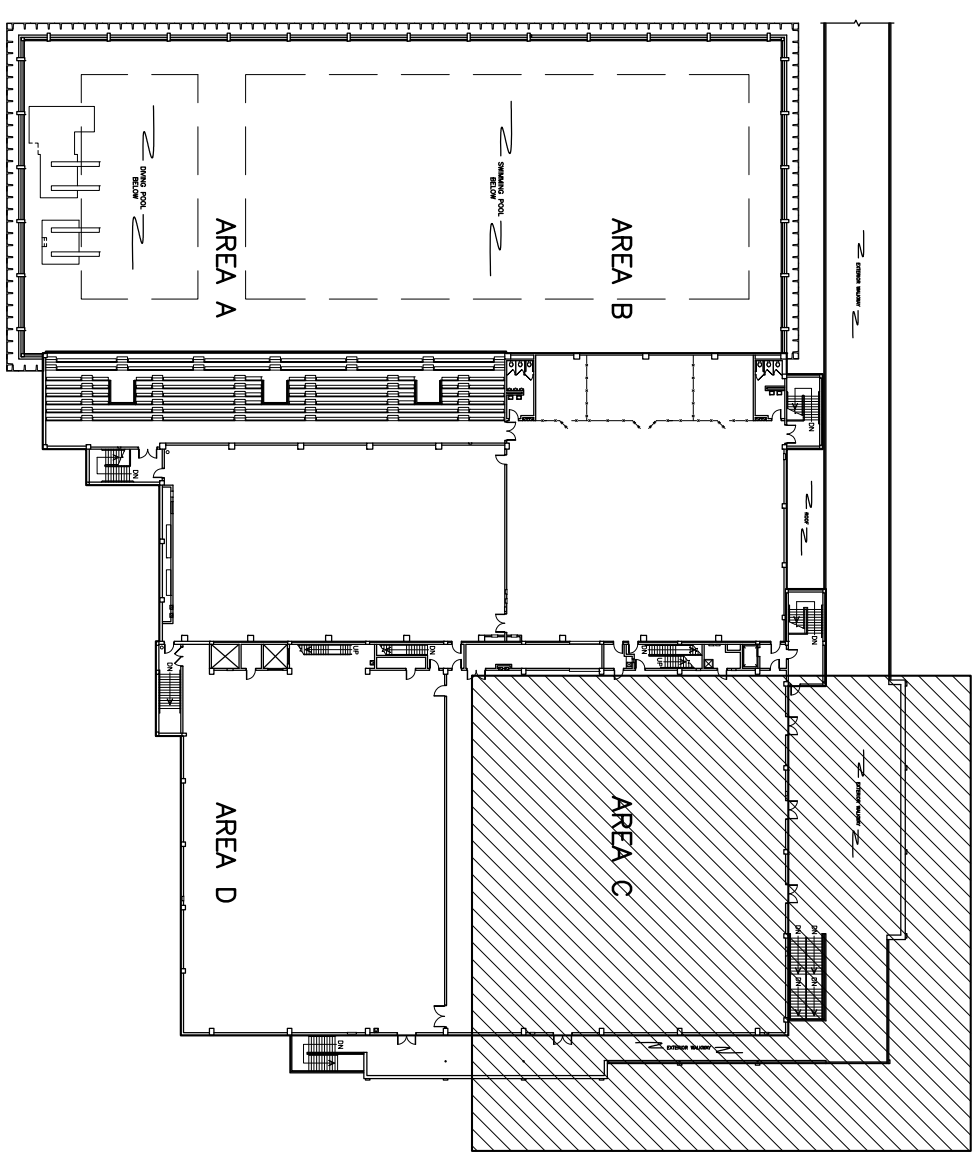
KEYPLAN
 NOT TO SCALE

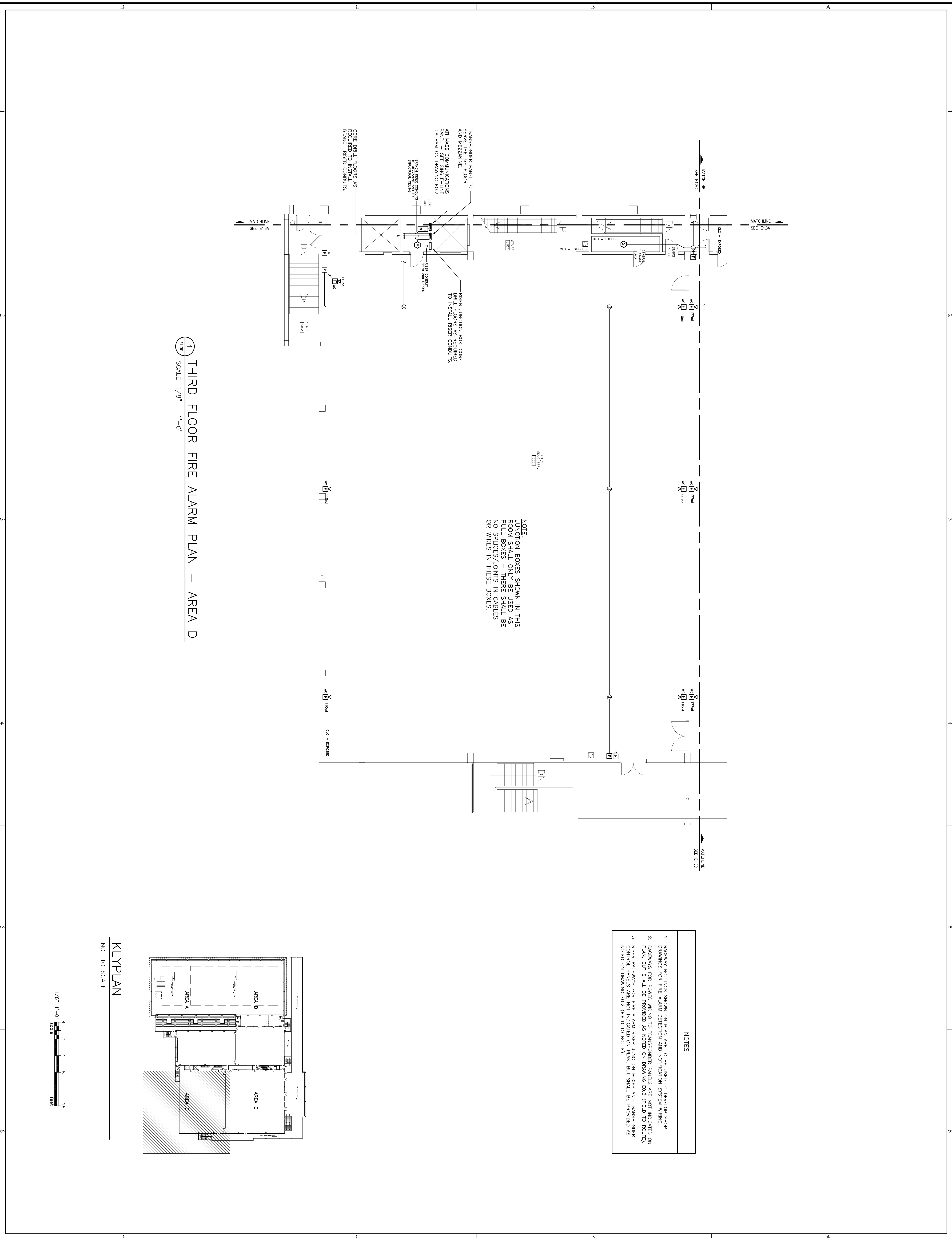




1 THIRD FLOOR FIRE ALARM PLAN - AREA C
 SCALE: 1/8" = 1'-0"

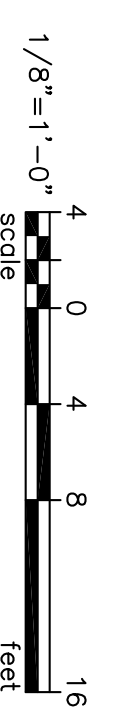
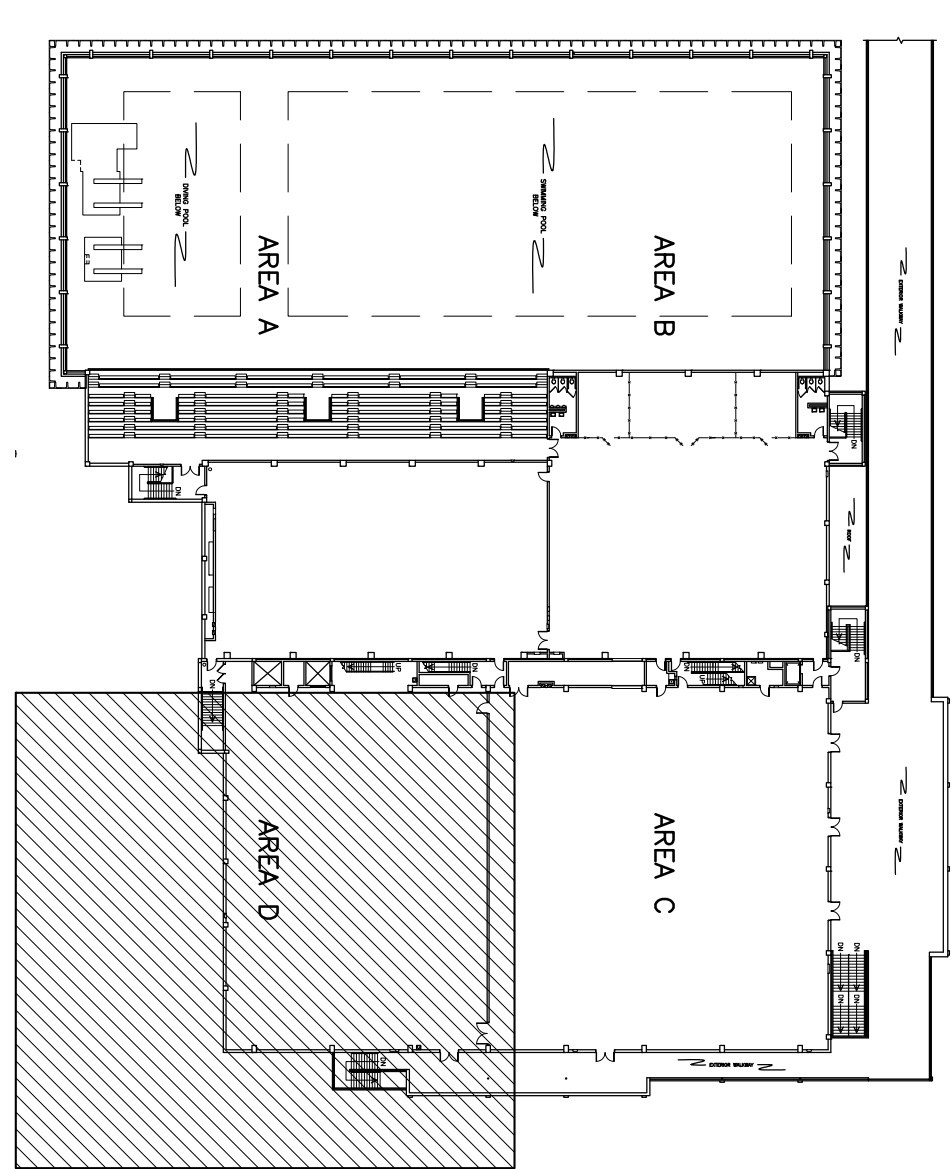
- NOTES
1. RACEWAY ROUTINGS SHOWN ON PLAN ARE TO BE USED TO DEVELOP SHOP DRAWINGS FOR FIRE ALARM DETECTION AND NOTIFICATION SYSTEM WIRING.
 2. RACEWAYS FOR POWER WIRING TO TRANSFORMER PANELS ARE NOT INDICATED ON PLAN, BUT SHALL BE PROVIDED AS NOTED ON DRAWING E0.2 (FIELD TO ROUTE).
 3. RISER RACEWAYS FOR FIRE ALARM RISER, JUNCTION BOXES AND TRANSFORMER CONTROL PANELS ARE NOT INDICATED ON PLAN, BUT SHALL BE PROVIDED AS NOTED ON DRAWING E0.2 (FIELD TO ROUTE).

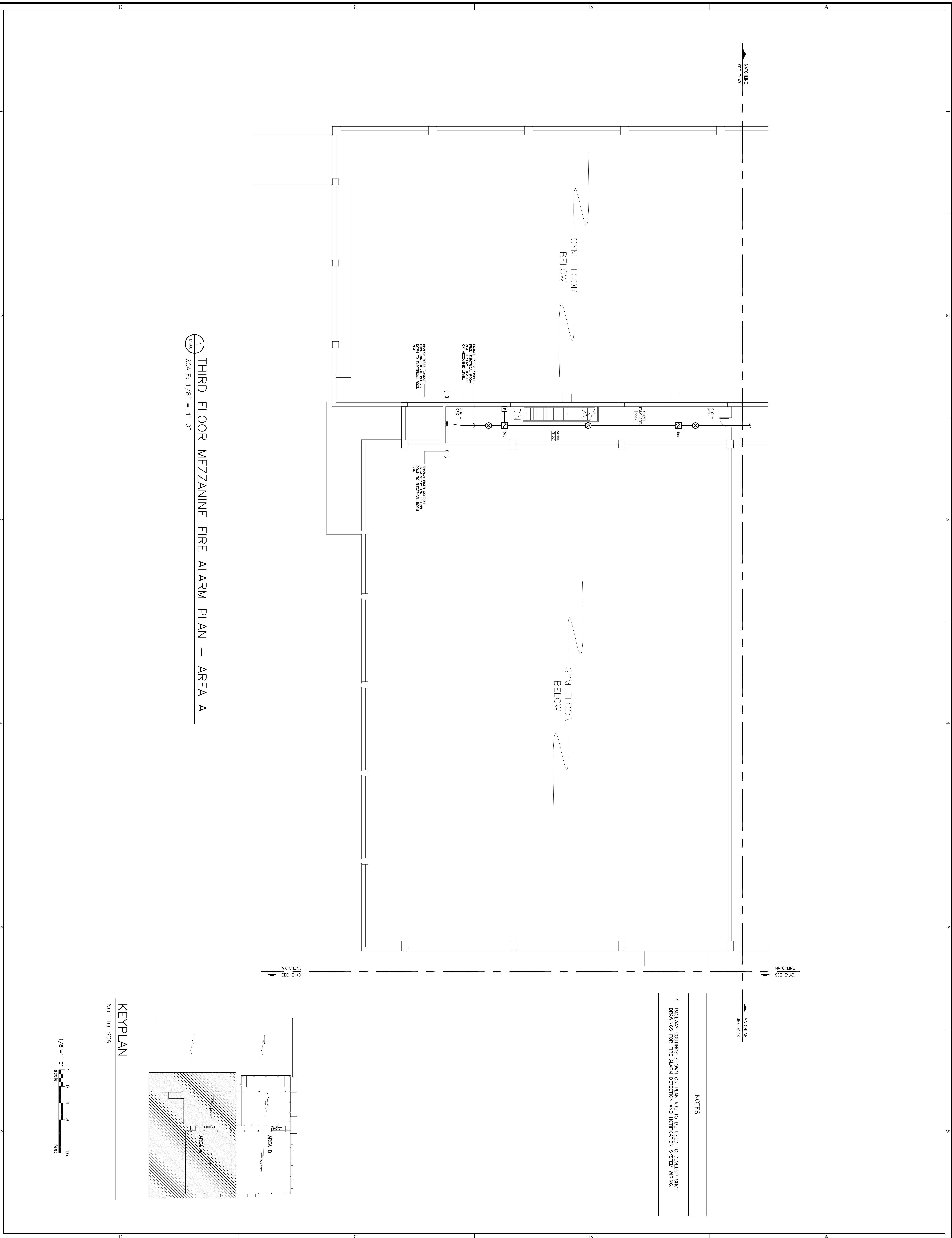




1 THIRD FLOOR FIRE ALARM PLAN - AREA D
 SCALE: 1/8" = 1'-0"

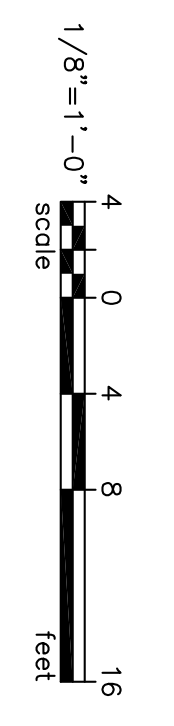
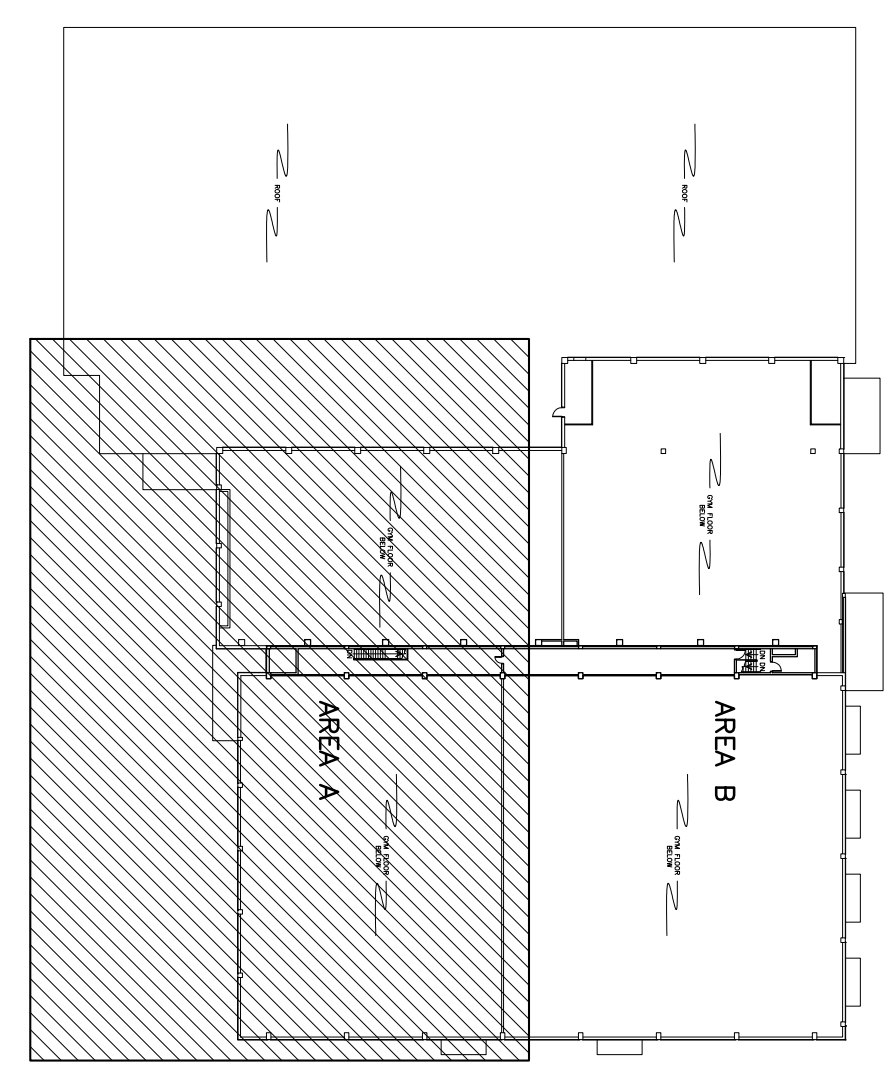
- NOTES**
1. RACEWAY ROUTINGS SHOWN ON PLAN ARE TO BE USED TO RISE/UP SHOP DRAWINGS FOR FIRE ALARM DETECTION AND NOTIFICATION SYSTEM WIRING.
 2. RACEWAYS FOR POWER WIRES TO TRANSPODER PANELS ARE NOT INDICATED ON PLAN, BUT SHALL BE PROVIDED AS NOTED ON DRAWING E02 (FIELD TO ROUTE).
 3. RISER RACEWAYS FOR FIRE ALARM RISER JUNCTION BOXES AND TRANSPODER NOTED ON DRAWING E02 (FIELD TO ROUTE).





1 THIRD FLOOR MEZZANINE FIRE ALARM PLAN - AREA A
 SCALE: 1/8" = 1'-0"

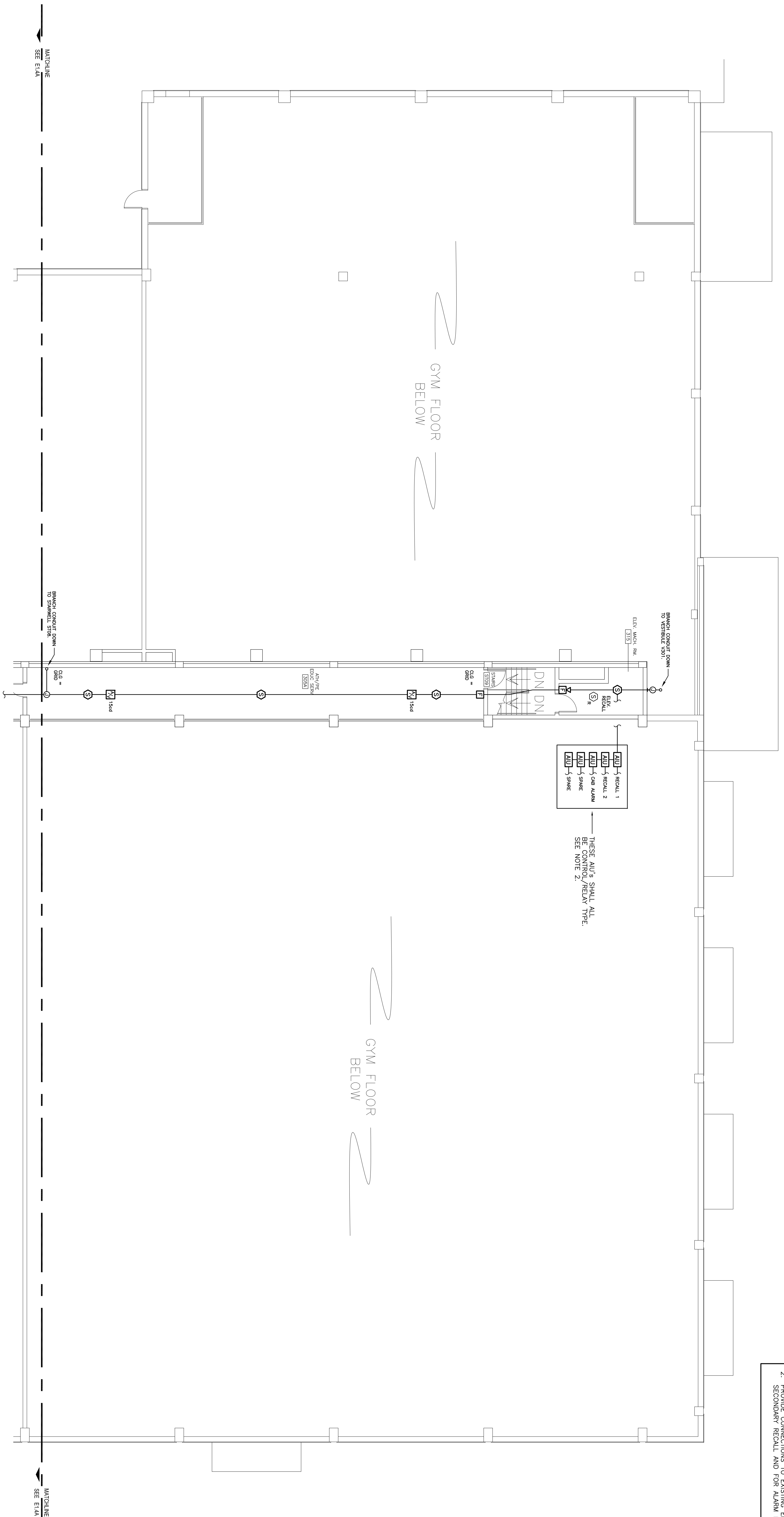
KEYPLAN
 NOT TO SCALE



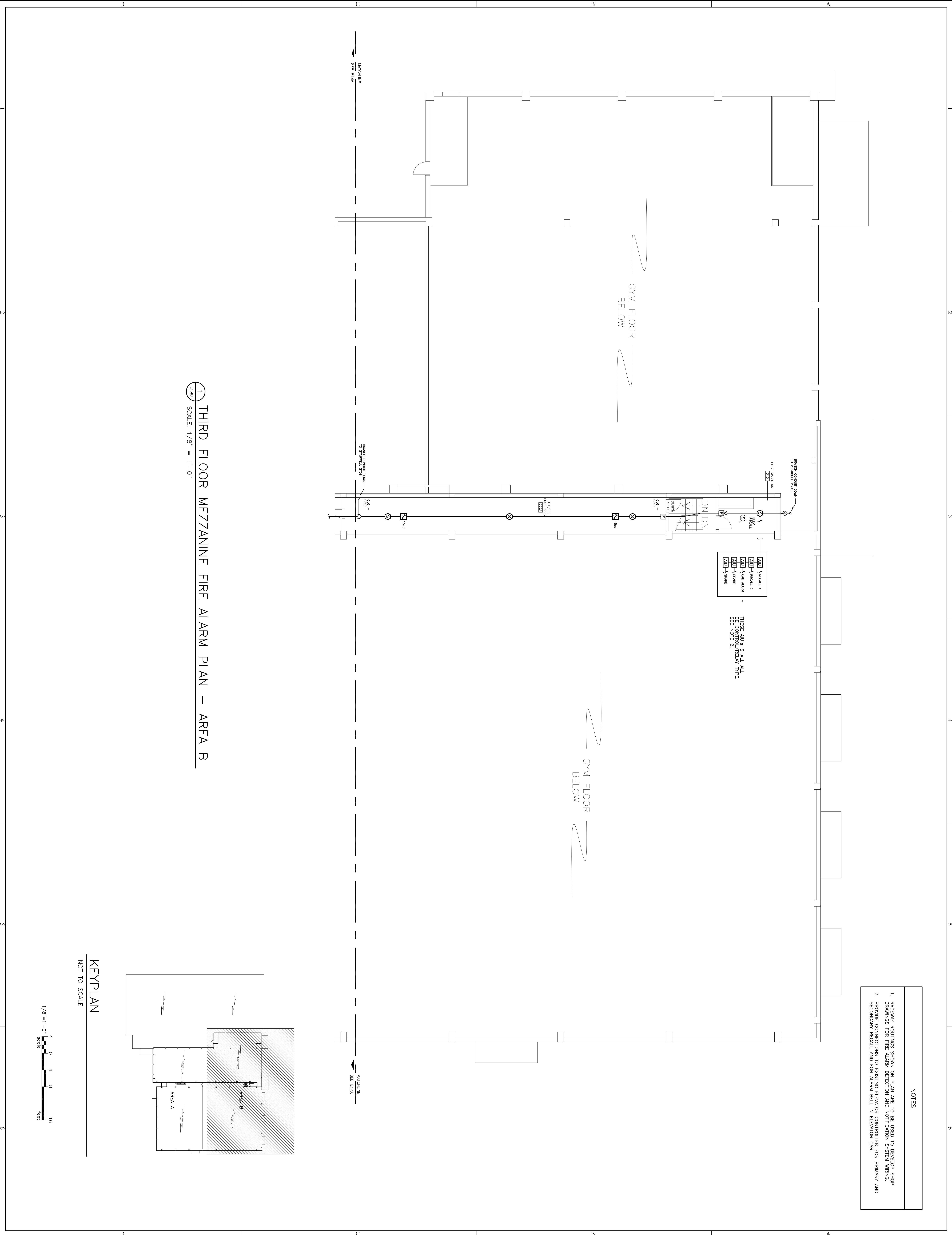
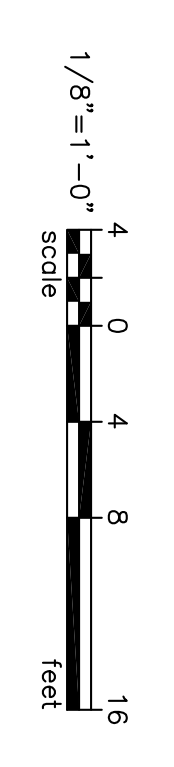
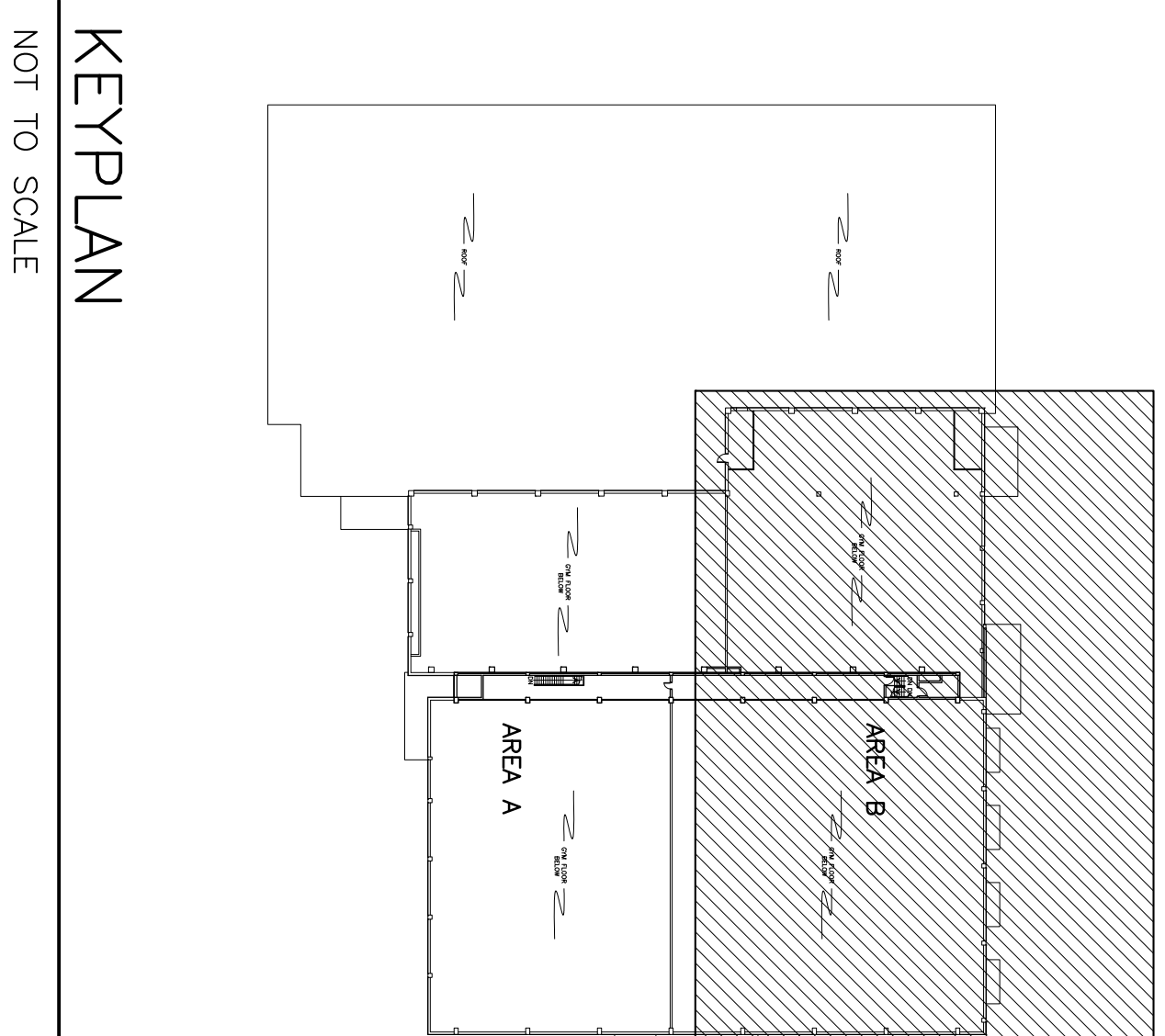
NOTES
 1. RACEWAY ROUTINGS SHOWN ON PLAN ARE TO BE USED TO DEVELOP SHOP DRAWINGS FOR FIRE ALARM DETECTION AND NOTIFICATION SYSTEM WIRING.

17 OF 18 SHEET IN SET E1.4A	 University of South Carolina	PROJECT TITLE: BLATT PE CENTER FIRE ALARM UPGRADES State Project H27-1851	BUILDING: 138	DRAWING:	DATE: 18 SEP 12	DRAWN BY: JWJ	CHECKED BY: JWJ	SEAL:	 	 BEA BELKA ENGINEERING ASSOCIATES, INC. 7 CLUSTERS COURT, SUITE 201 COLUMBIA, SOUTH CAROLINA 29210 (803) 731-0650 fax (803) 731-2880 EMAIL: jwland@bellsouth.net	US21016 OFFICE OF FACILITIES MANAGEMENT COLUMBIA, SC 29208
		REV. DESCRIPTION DATE ORIG. BY DRAWN BY									

1 THIRD FLOOR MEZZANINE FIRE ALARM PLAN -- AREA B
 SCALE: 1/8" = 1'-0"



- NOTES**
1. FACEWORK ROUTINGS SHOWN ON PLAN ARE TO BE USED TO DEVELOP SHOP DRAWINGS FOR FIRE ALARM DETECTION AND NOTIFICATION SYSTEM DRAWINGS.
 2. PROVIDE CONNECTIONS TO EXISTING ELEVATOR CONTROLLER FOR PRIMARY AND SECONDARY RECALL AND FOR ALARM BELL IN ELEVATOR SHAFT.



OFFICE OF FACILITIES MANAGEMENT
 COLUMBIA, SC 29208

BEA BELKA ENGINEERING ASSOCIATES, INC.
 7 CLUSTERS COURT, SUITE 201
 COLUMBIA, SOUTH CAROLINA 29210
 (803) 731-0650 fax (803) 731-2880
 EMAIL: jwlond@bellsouth.net

US21016
 BELKA ENGINEERING ASSOC. INC.
 No. 19085
 04/18/12
 No. C00953

REV.	DESCRIPTION	DATE	ORIG. BY	DRAWN BY
138		18 SEP 12	JWL	JWL

University of South Carolina
 PROJECT TITLE: BLATT PE CENTER FIRE ALARM UPGRADES
 State Project H27-1851
E1.4B
 SHEET 18 OF 18