

SITE PLAN
SCALE: 1" = 60'-0" @ FULL PLOT (30X42)



DESIGN PROFESSIONAL STATEMENT

THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS, AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF POT ITEMS WITHIN SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT

LEGEND

- ■ ■ ■ ■ PATH OF TRAVEL (A03-122595), TECHNICAL REQUIREMENTS FOR ACCESSIBLE ROUTE: ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE WITHOUT ABRUPT LEVEL CHANGES EXCEEDING 1" IF BEVELED AT 1:2 MAXIMUM SLOPE OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1" MAXIMUM AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM, AND SLIP RESISTANT. CROSS SLOPE SHALL NOT BE STEEPER THAN 1:48 AND SLOPE IN THE DIRECTION OF TRAVEL SHALL NOT BE STEEPER THAN 1:30. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND FREE OF OBJECTS PROTRUDING MORE THAN 4" FROM THE WALL, ABOVE 27" AND LESS THAN 80" ABOVE THE FLOOR. ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.
- ■ ■ ■ ■ PATH OF TRAVEL (A03-114778)

CERT TABLE

ACCESSIBLE POT ELEMENTS	A03-113248	CERTIFIED LTR. #1 (3/5/2012)
	A03-122595	APPROVED (UNDER CONSTRUCTION)
CAMPUS WIDE FIRE ALARM	A03-113046	CERTIFIED LTR. #1 (4/8/2011)
UNIT B	A21402 A59880	CERTIFIED LTR. #1 (9/19/2002)
ALTERATIONS TO TRACK / FIELD	A03-114778	CERTIFIED LTR. #1 (3/6/2015)

SCIENCE LABS
RENOVATION AT
GAREY H.S.

321 W. LEXINGTON AVE.
POMONA, CALIFORNIA 91766

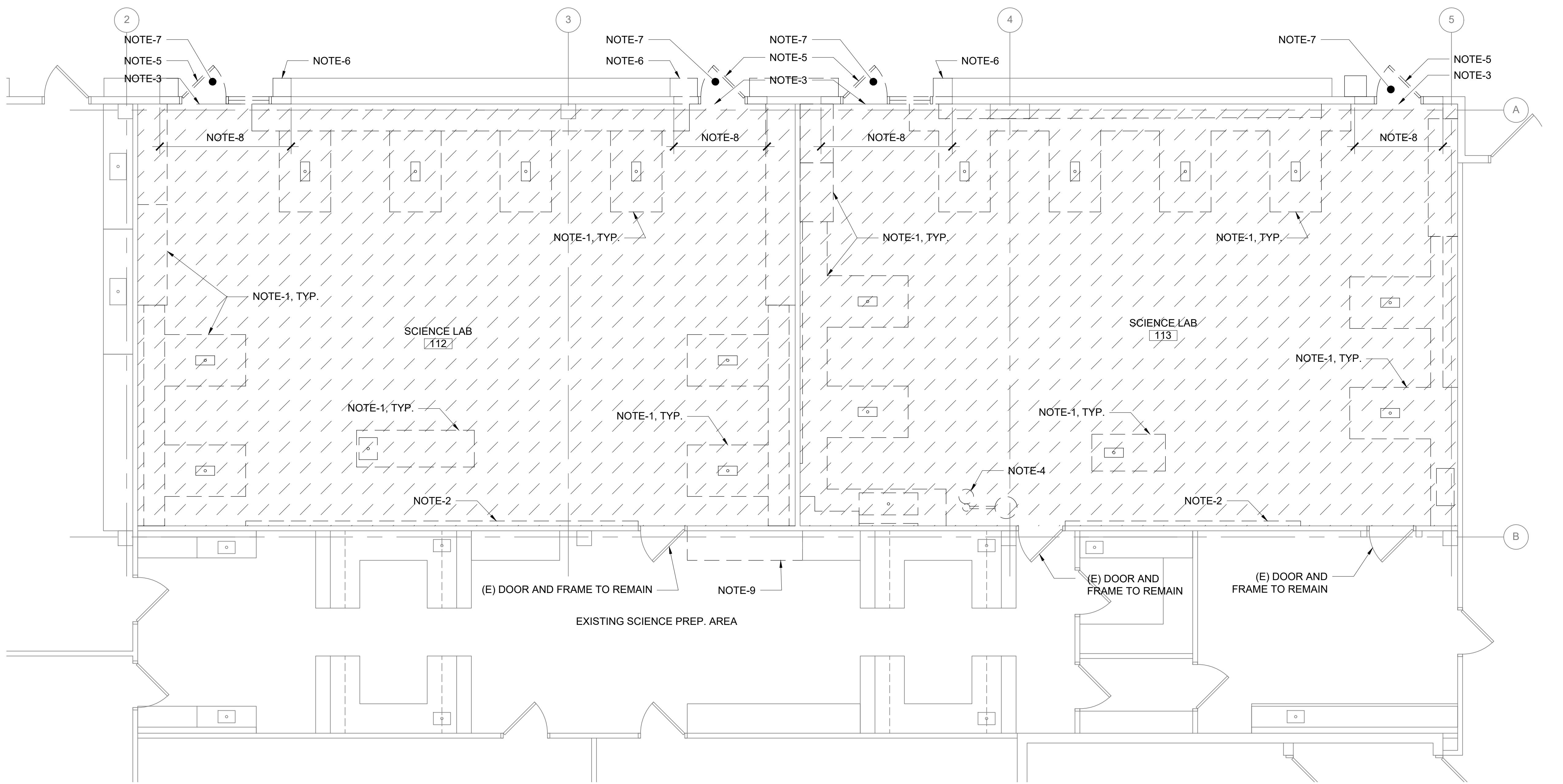
POMONA UNIFIED
SCHOOL DISTRICT
800 S. GAREY AVENUE
POMONA, CALIFORNIA 91766

SITE PLAN

DATE
08/01
FILE NO. 19-H20
SHEET

A0.1

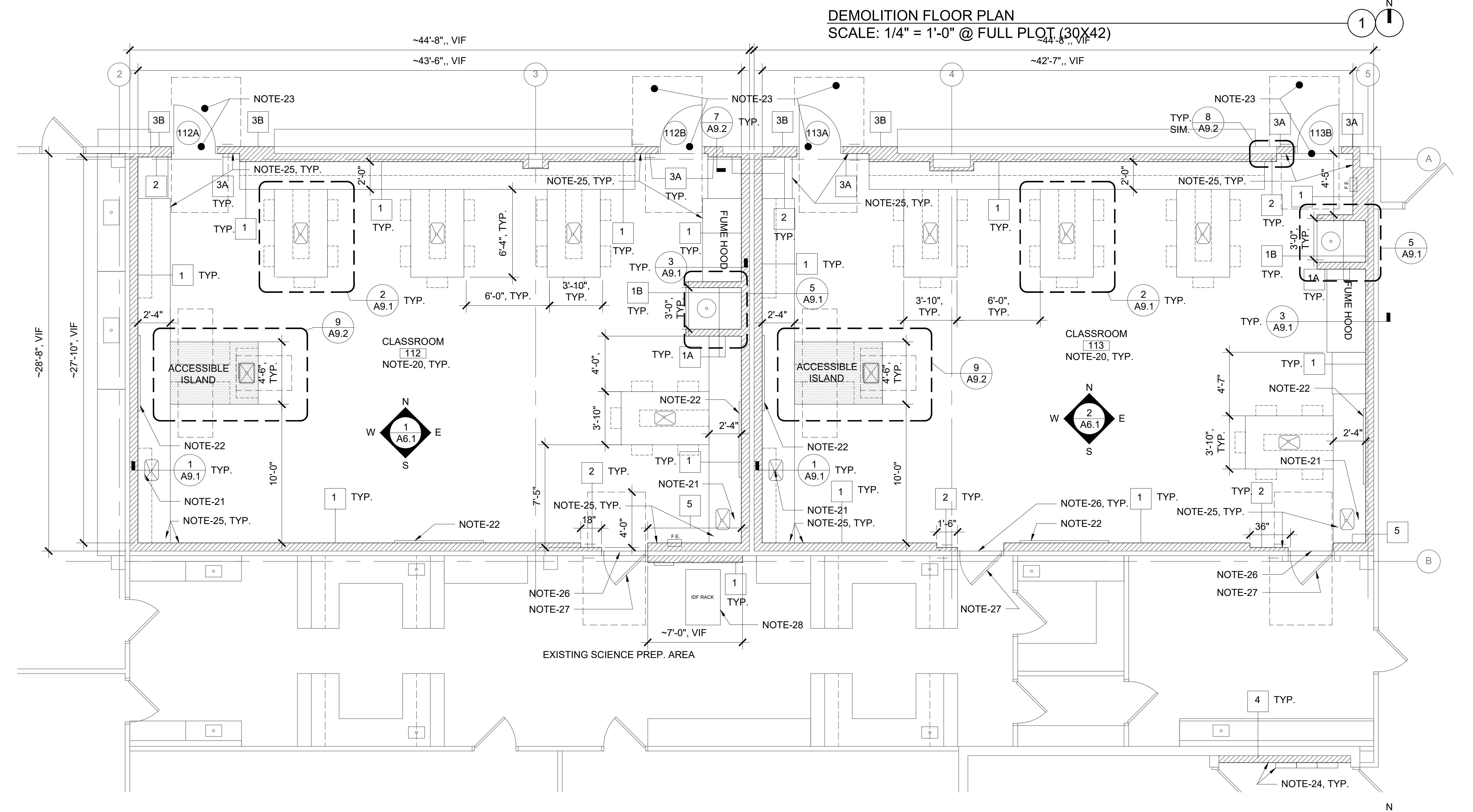
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125098 INC:
REVIEWED FOR
SS FLS ACS
DATE: 10/31/2025



LEGEND

	REMOVE (E) BASE AND FLOORING DOWN TO EXISTING CONCRETE SLAB. CLEAN AND PREP. AD NEEDED TO RECEIVE NEW FLOORING. TRENCH AS NEEDED FOR NEW UNDERGROUND UTILITIES. SEE PLUMBING DRAWINGS FOR MORE INFORMATION. MATCH FLOOR AND BASE AS NEEDED FOR NEW WORK
	DOOR TAG, SEE DOOR SCHEDULE ON A10.1
	ACCESSIBLE ISLAND AND SINK, SEE 9/A9.2

YnL Architects
architecture | interior



NEW FLOOR PLAN NOTES

- NOTE-20 PROVIDE NEW CHEMICAL RESISTANT RESILIENT TILE FLOORING AND BASE
- NOTE-21 PROVIDE "NON-POTABLE WATER" SIGN, SEE 6/A9.3
- NOTE-22 TV, MONITOR, PROVIDE BLOCKING PER 20/51
- NOTE-23 PROVIDE NEW CONCRETE LANDING AND ACCESSIBLE THRESHOLDS AT DOOR, SEE 9.10 ON A9.3
- NOTE-24 ELECTRICAL PANELS, SEE ELECTRICAL DRAWINGS
- NOTE-25 PROVIDE VINYL COVE BASE
- NOTE-26 PROVIDE TRANSITION STRIP AT TRANSITION BETWEEN NEW AND EXISTING FLOORING
- NOTE-27 PAINT (E) DOOR AND FRAME (ALL SIDES / EDGES)
- NOTE-28 FLOOR MOUNTED IDF RACK, SEE STRUCTURAL DRAWINGS FOR ANCHORAGE

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NON STRUCTURAL WALL SCHEDULE

- 1 358S162-54 @ 16" O.C. WITH GYPSUM BOARD ON ONE SIDE.
- 1A 358S162-54 @ 16" O.C. WITH GYPSUM BOARD ON ONE SIDE AND EPOXY COATING ON THE EMERGENCY COMPARTMENT SIDE.
- 1B 358S162-54 @ 16" O.C. WITH EPOXY COATING ON ONE SIDE.
- 2 250S162-54 @ 8" O.C. WITH GYPSUM BOARD ON ONE SIDE.
- 3A 400S162-54 @ 16" O.C. WITH PORTLAND CEMENT PLASTER ON METAL LATH ON WATERPROOFING MEMBRANE ON $\frac{1}{2}$ " DENSGLASS ON ONE SIDE AND GYPSUM BOARD ON THE INSIDE
- 3B 400S162-54 @ 16" O.C. WITH PORTLAND CEMENT PLASTER ON METAL LATH ON WATERPROOFING MEMBRANE ON $\frac{1}{2}$ " DENSGLASS ON ONE SIDE.
- 4 400S162-54 @ 16" O.C. WITH GYPSUM BOARD ON ONE SIDE.
- 5 600S162-54 METAL STUDS @ 16" O.C. WITH GYPSUM BOARD ON ONE SIDE.

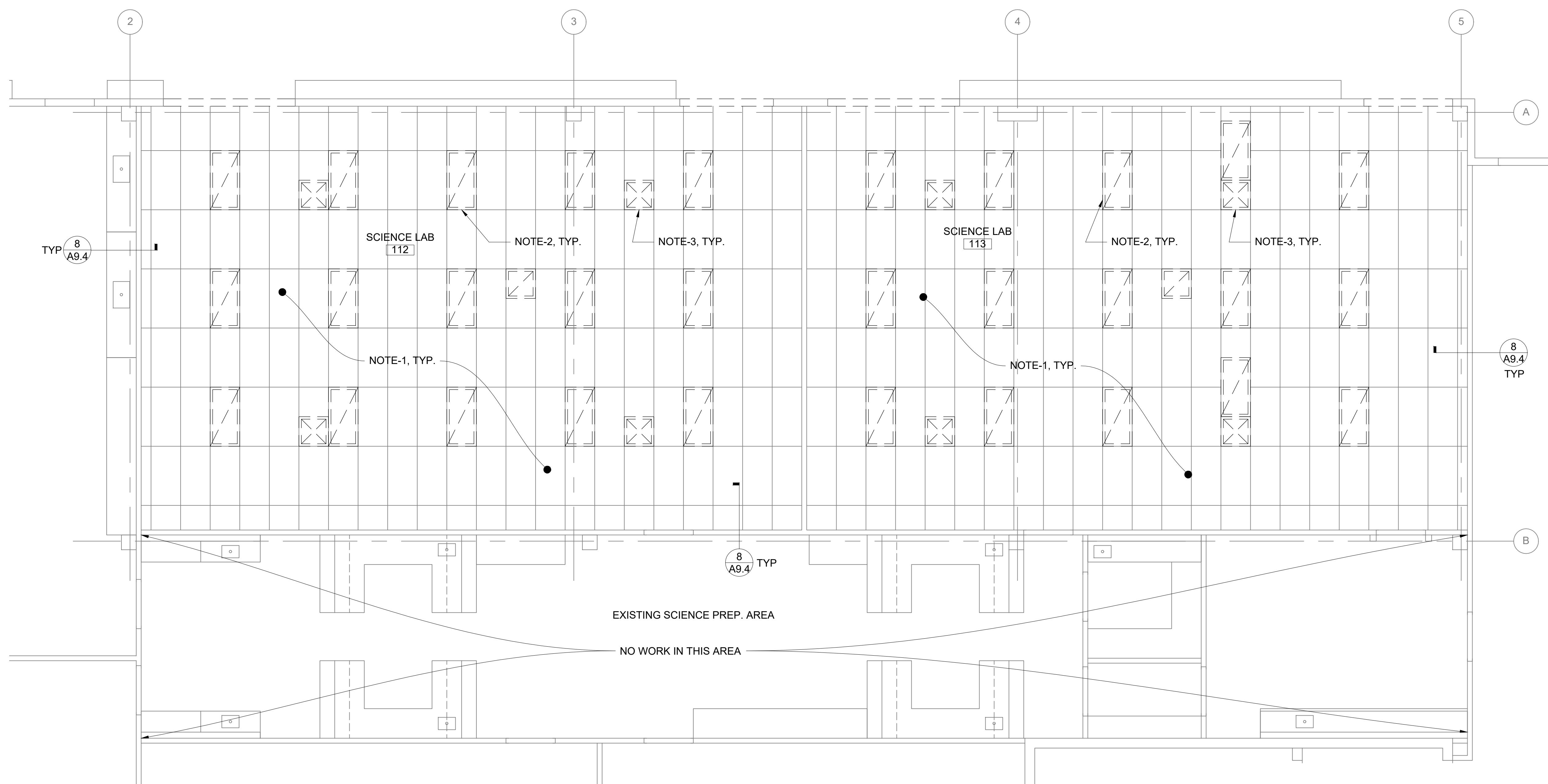
**DEMOLITION
AND NEW
FLOOR PLANS**

GENERAL NOTES

- DEMOLITION WORK SHOWN IS DIAGRAMMATIC IN NATURE. CONTRACTOR SHALL VERIFY EXACT CONDITIONS IN THE FIELD AND DEMO ADDITIONAL ITEMS (REGARDLESS SHOWN ON THE DRAWINGS OR NOT) AS NEEDED TO COMPLETE WORK.
- SEE A1.0 FOR ADDITIONAL SIGNAGE.
- SEE TYPICAL DETAILS 7/A9.3 FOR TYPICAL TRENCHING REPAIR DETAIL.

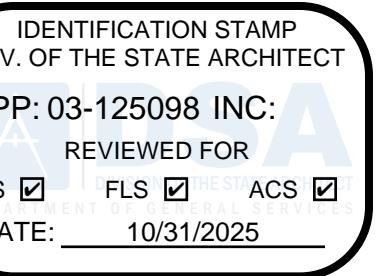
DATE: 10/31/2025
DRAWING: A# 03-125098
FILE NO. 19-H20
SHEET: 1

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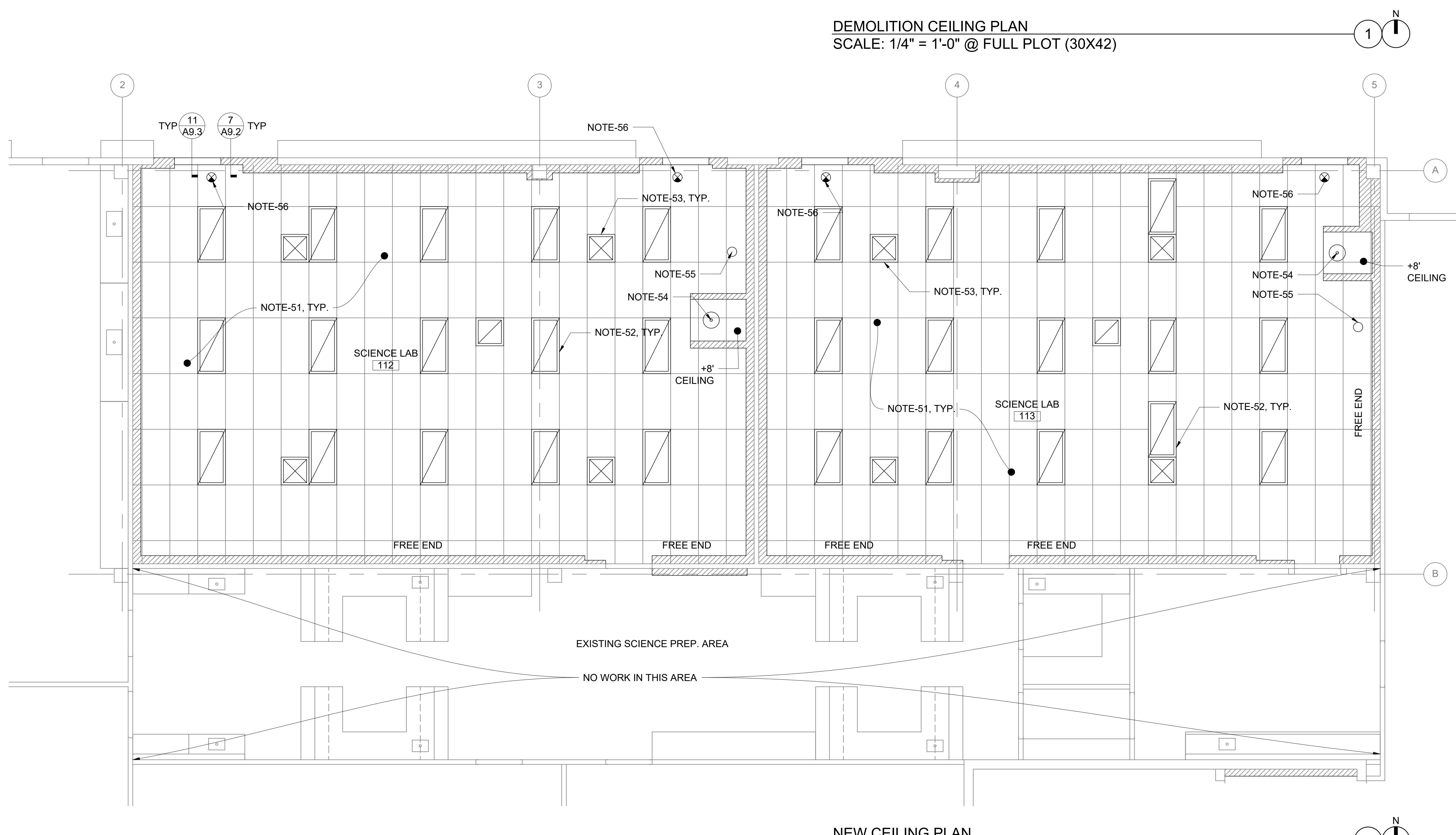
LEGEND

REMOVE (E) CEILING TILES, EXISTING T BAR GRID TO REMAIN
PAINT EXISTING T BAR GRID



DEMOLITION CEILING PLAN

SCALE: 1/4" = 1'-0" @ FULL PLOT (30X42)



CEILING NOTES

- NOTE-51 PROVIDE NEW SUSPENDED ACOUSTICAL CEILING TILE AT EXISTING GRID. PAINT (E) CEILING GRID
- NOTE-52 PROVIDE NEW LIGHT FIXTURES, SEE 6/A9.4
- NOTE-53 PROVIDE NEW HVAC REGISTERS, SEE 1/M4.1
- NOTE-54 EMERGENCY SHOWER, SEE 4,5/A9.1
- NOTE-55 FUME HOOD EXHAUST DUCT. PROVIDE NEW OPENING AND NEW PRE-FAB CURB AT ROOF, SEE DETAILS 2 AND 11 ON SHEET A9.2
- NOTE-56 ILLUMINATED EXIT SIGN, SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION

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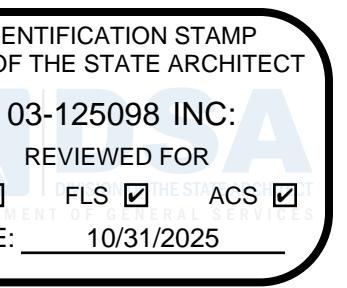
DEMOLITION AND NEW CEILING PLANS

GENERAL NOTES

1. SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR MORE INFORMATION.

DATE _____
DSA A# _____
A# 03-125098
FILE NO. 19-H20

A2.2



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TYP. EMERGENCY SHOWER COMPARTMENT PLAN

SCALE

1-1/2"=1'-0"

TYP. EMERGENCY SHOWER COMPARTMENT PLAN

SCALE
1-1/2"=1'-0"

5

6"

34" MAX

1'-4"

1"

6"

7.25"

SEE SHEET A2.1 FOR DEPTH

SEE 25/S1

5/8" GYPSUM BOARD

EPOXY COUNTERTOP AND BACK SPLASH

BACKING PER 20/S1, TYP.

CONT. 16GA BENT PLATE W/ #10 SMS TO TRACK AND BACKING @ 16"O.C. (1.5" LEG, TYP.)

(2) #10 SMS AT EA UNISTRUT, TYP.

1-5/8" UNISTRUT P1000 @ 6'-0" MAX O.C. TOTAL MAX OPERATING WEIGHT IS 22 LBS

358S162-54 @ 16" O.C. W/ 358T150-54 TOP AND BOTTOM

PT 2X4, TYP.

BASE CABINET WITH CHEMICAL RESISTANT PLASTIC LAMINATE

ADJUSTABLE SHELVING

#10 SMS @ 16" O.C. INTO BACKING TOP AND BOTTOM (MIN. 8 SCREW PER CABINET)

#10X2" WOOD SCREWS @ 6" O.C.

SIMPSON A34 @ 16" O.C. AND 6" O.C TYP.

3/8" DIA. HILTI KH-EZ ICC-ESR-3027 @ 16" O.C. WITH 2.5" EMBED. INTO (E) CONCRETE SLAB. (4) PER CABINET 6" MIN FROM EDGE, TYP.

(E) 4" THICK CONCRETE SLAB ON GRADE

TYP. UTILITY CHASE AND CABINET

SCAL

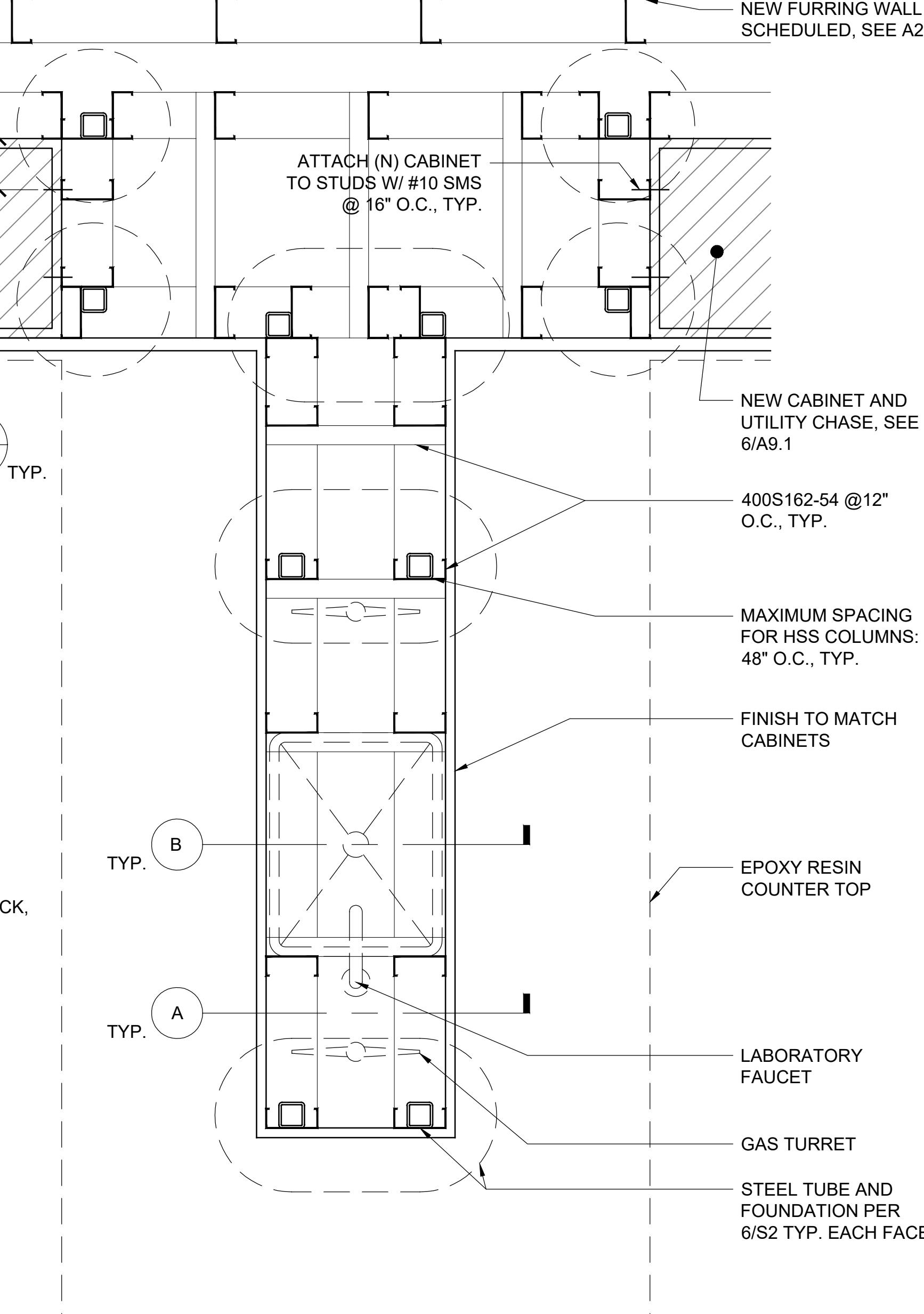
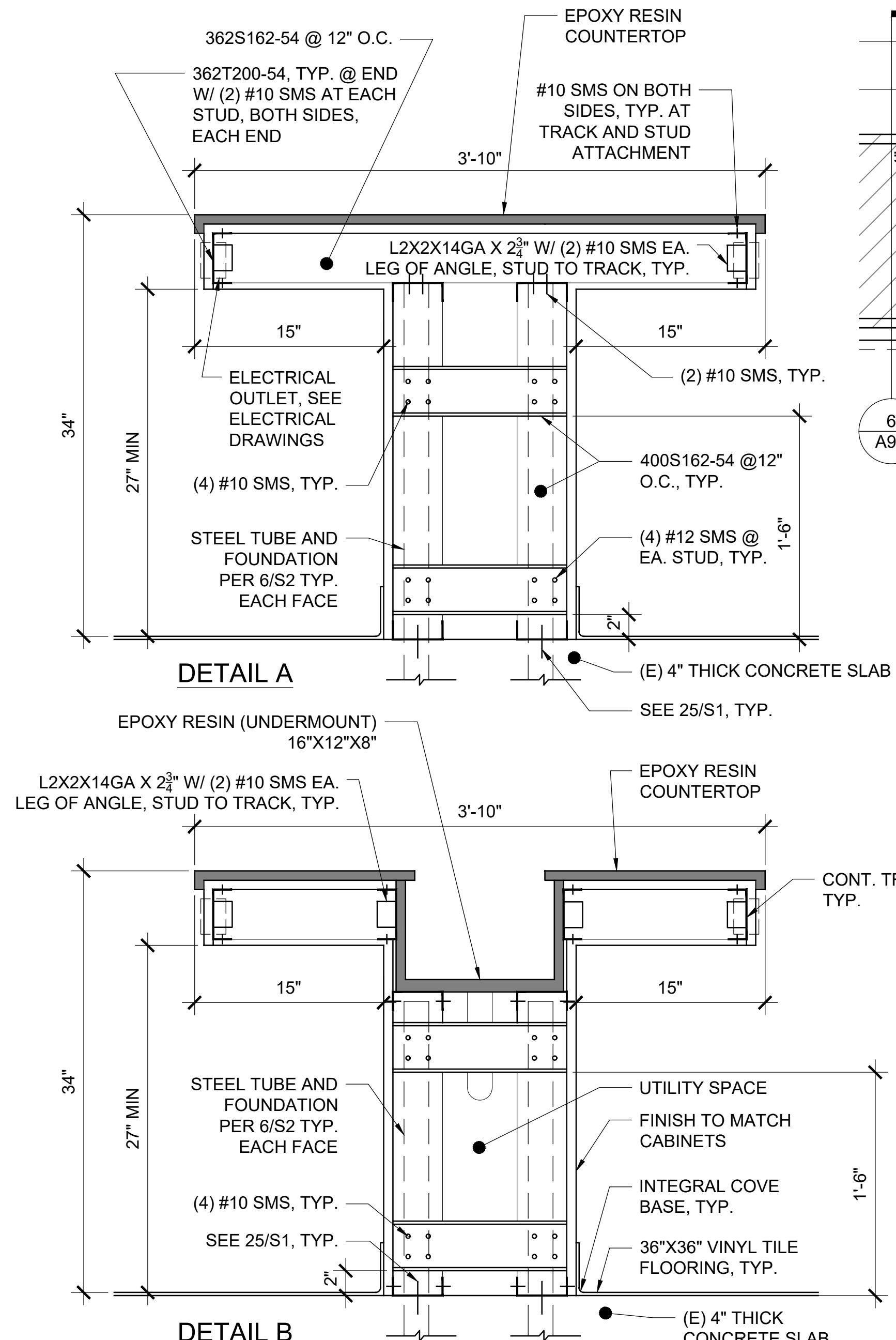
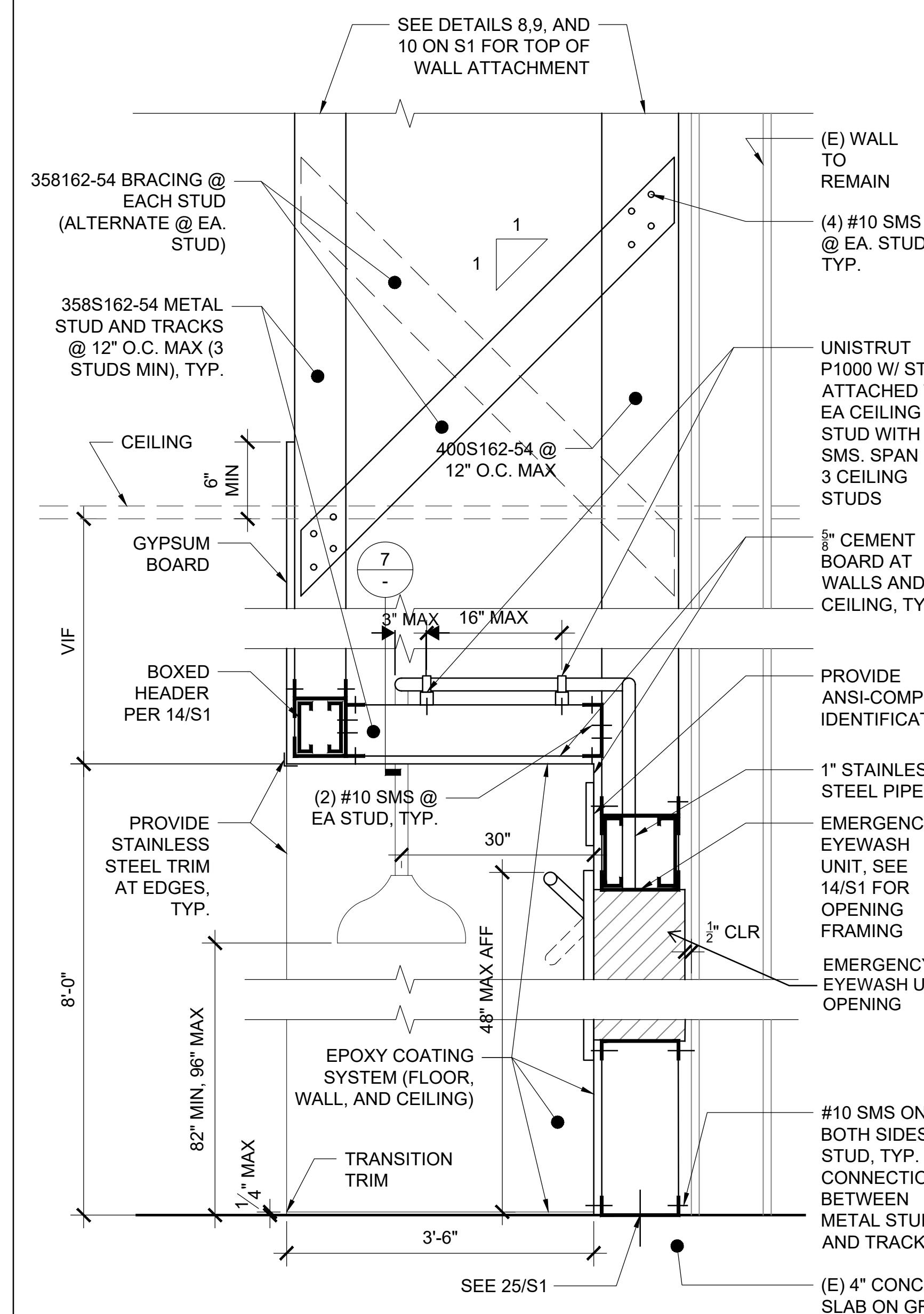
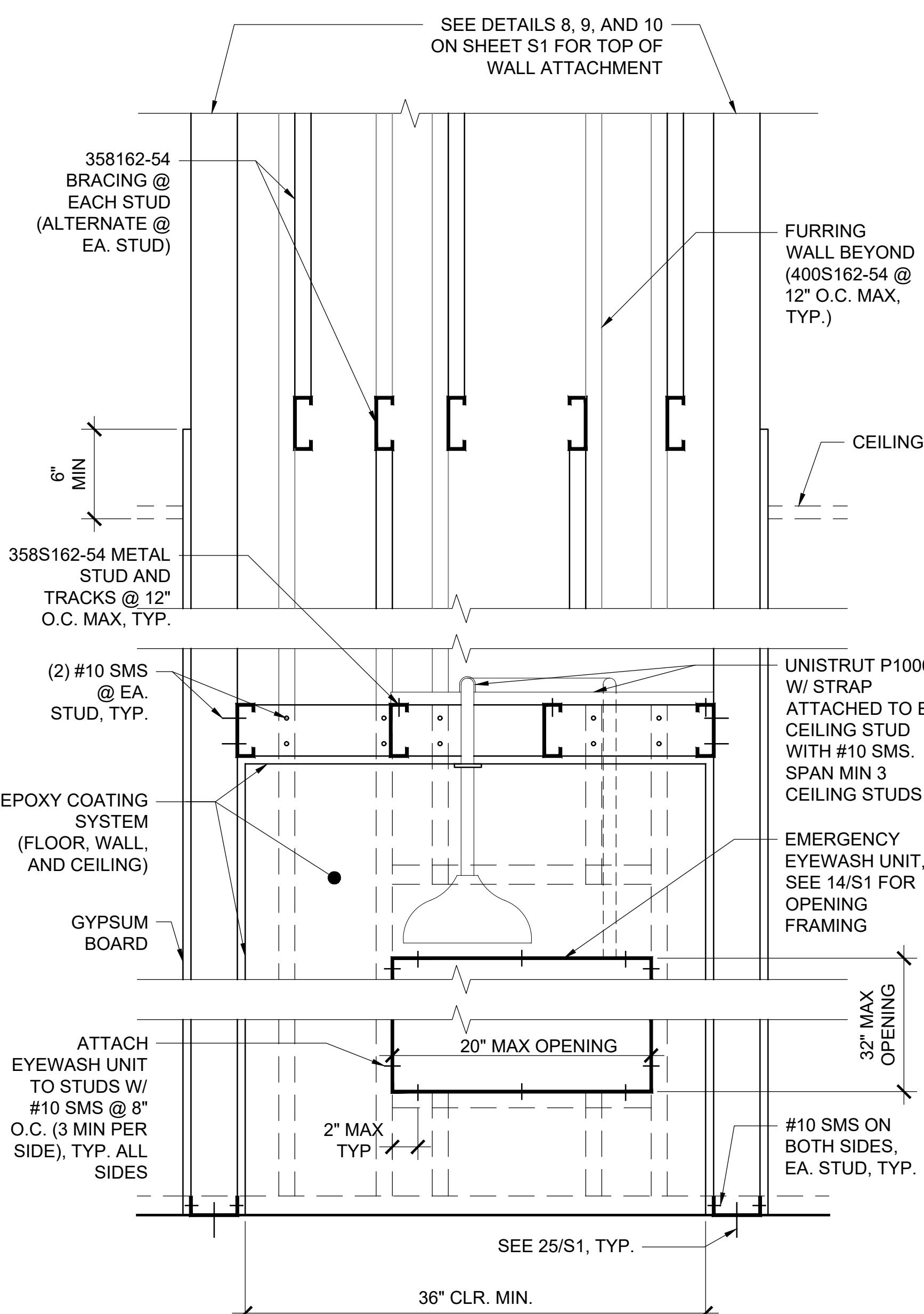
NIS

6 TYP. FUME HOOD SECTION

SCALE	3	TYP. LAB SINK AT LAB CASEWORK
1 1/2" - 1 1/2"		

SCALE

$$1-1/2''=1\text{'}-0''$$



TYP EMERGENCY SHOWER COMPARTMENT SECT

SCALE

1-1/2"=1'-0"

7 TYP EMERGENCY SHOWER COMPARTMENT S

SECTION

"=1'-0"

TYP LAB ISI AND (NON ACCESSIBLE)

SCALE

$$1\frac{1}{2}'' = 1'-0''$$

GENERAL

- ALL WORKMANSHIP, MATERIAL, AND TESTING SHALL CONFORM TO THE REQUIREMENTS OF THE 2022 CALIFORNIA BUILDING CODE.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS, TO VERIFY CONCRETE AT THE TIME OF CONCRETE PLACEMENT, AND DIMENSIONS ON THE STRUCTURAL DRAWINGS WITH RELATED REQUIREMENTS ON THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND ALL OTHER PERTINENT DRAWINGS BEFORE PROCEEDING WITH CONSTRUCTION.
- ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION. WHERE CONFLICTS OCCUR BETWEEN VARIOUS ELEMENTS OF THE WORKING DRAWINGS, THE MORE STRINGENT REQUIREMENTS SHALL APPLY.
- DETAILS MARKED TYPICAL SHALL APPLY IN ALL CASES, UNLESS SPECIFICALLY DETAILED OTHERWISE. WHERE NO DETAIL IS SHOWN, CONSTRUCTION SHALL BE AS SHOWN FOR OTHER SIMILAR WORK.
- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION, WHERE DISCREPANCIES OCCUR BETWEEN THE SPECIFICATIONS AND THE DRAWINGS, THE MORE STRINGENT REQUIREMENTS SHALL APPLY.
- THE DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, AND SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEASURES, TECHNIQUES, SEQUENCES AND PROCEDURES, INCLUDING BRACING, SHORING, AND LAYDOWN OF CONSTRUCTION MATERIALS, UNLESS SPECIFICALLY INDICATED OTHERWISE. THE DESIGN AND INSTALLATION OF TEMPORARY SHORING AND BRACING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- UNLESS OTHERWISE STATED IN WRITING, SITE VISITS BY REPRESENTATIVES OF THE STRUCTURAL ENGINEER:
 - DO NOT INCLUDE INSPECTION OF PROTECTIVE OR TEMPORARY CONSTRUCTION.
 - ARE GENERAL IN NATURE AND ARE NOT CONTINUOUS OR DETAILED.
 - DO NOT GUARANTEE CONTRACTOR'S PERFORMANCE.
 - SHALL NOT BE CONSIDERED AS SUPERVISION OF CONSTRUCTION.
- DIMENSIONS SHALL GOVERN OVER SCALES SHOWN ON DRAWINGS.
- PRIOR TO DRILLING FOR NEW ANCHORS OR CORING FOR NEW OPENINGS, CONTRACTOR SHALL SCAN THE EXISTING STRUCTURE TO LOCATE REBAR TO AVOID DAMAGING THE EXISTING REBAR.
- ALL CONDUIT, DUCTWORK, CEILING AND OTHER MISCELLANEOUS ITEMS AND THEIR SUPPORTING CONNECTIONS SHALL BE RELOCATED OR REMOVED AND RECONNECTED IN KIND AS REQUIRED TO PERFORM THE STRUCTURAL WORK.

SEISMIC DESIGN DATA

- SEISMIC RISK CATEGORY = III
- IMPORTANCE FACTOR I = 1.25
- MAPPED ACCELERATION PARAMETERS:

$S_a = 1.791$
$S_d = 0.642$
- SITE CLASS = D (DEFAULT)
- DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS:

$S_{9s} = 1.433$
$S_{9d} = 0.728$
- SEISMIC DESIGN CATEGORY = D

REINFORCING STEEL

- ALL REINFORCING SHALL BE PLACED AND SUPPORTED IN CONFORMANCE WITH "THE MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION" LATEST EDITION, PUBLISHED BY C.R.S.I.
- TIE WIRE SHALL BE 16 GAGE, FULLY ANNEALED, CONFORMING TO ASTM A-1064.
- ALL REINFORCING STEEL SHALL HAVE THE FOLLOWING MINIMUM CONCRETE COVERAGE, UNLESS NOTED OTHERWISE:

A. CONCRETE PLACED AGAINST EARTH	= 3"
B. CONCRETE WITH FORMED SURFACES IN CONTACT WITH EARTH	= 2"
C. CONCRETE EXPOSED TO WEATHER, #5 BAR AND SMALLER	= 1 1/2"

- CONTINUOUS REINFORCING STEEL IN CONCRETE MUST BE SPLICED WITH A MINIMUM LAP ACCORDING TO THE TABLES BELOW, U.N.O.:

TYPICAL CLASS B REBAR LAP SPLICES (INCHES) $f_c = 3,000 \text{ psi}$		
BAR SIZE	TOP BARS	OTHER BARS
#3	28"	22"
#4	37"	29"
#5	47"	36"
#6	56"	43"
#7	61"	48"
#8	71"	52"
#9	81"	57"
#10	101"	61"
#11	111"	66"

NOTES:

- TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BARS.
- OTHER BARS ARE ALL EXCEPT TOP BARS.
- MULTIPLY LAP SPLICE LENGTHS BY 1.33 WHEN USED IN LIGHTWEIGHT CONCRETE.

- ALL HORIZONTAL REINFORCING STEEL IN CONCRETE WALLS SHALL BE CONTINUOUS AROUND CORNERS IN EACH DIRECTION FOR 40 BAR DIAMETERS OR 1'-6" MINIMUM.
- STAGGER REBAR SPLICES A MINIMUM OF TWICE THE LAP LENGTH FOR HORIZONTAL REINFORCING.
- DOWELS SHALL BE PROVIDED AT ALL POUR JOINTS AND SHALL BE THE SAME SIZE AND SPACING AS REINFORCING DIRECTLY BEYOND POUR JOINTS.

WIND DESIGN DATA

- BASIC WIND SPEED (3 SECOND GUST) = 102 MPH
- RISK CATEGORY = III
- WIND EXPOSURE = C

FOUNDATIONS

- ALL FOUNDATION BEARING AND FILL MATERIALS SHALL BE INSPECTED AND APPROVED BY THE D.S.A. INSPECTOR PRIOR TO PLACING CONCRETE.
- ALLOWABLE BEARING VALUE = 1500 PSF.
- ALLOWABLE LATERAL BEARING PRESSURE = 100 PSF.

COLD-FORMED METAL FRAMING

- STEEL STUDS SHALL BE IN ACCORDANCE WITH THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) SPECIFICATIONS AND ICC ESR-306AP, CONFORMING TO ASTM A653SS OR A1011SS, MINIMUM YIELD = 33.0 KSI U.N.O. AND GALVANIZED CONFORMING TO ASTM A525, G90, HAVING THE MINIMUM VALUES IN ACCORDANCE WITH THE CHART BELOW:

SIZE	DESIGNATION	GAGE	AREA (IN ²)	I _x (IN ⁴)	S _x (IN ³)	REMARKS
4"	400S162-54	16	0.443	1.098	0.526	
2 1/2"	250S162-54	16	0.358	0.370	0.296	
3 1/2"	362S162-54	16	0.422	0.873	0.481	
6"	600S162-54	16	0.556	2.860	0.953	
- REFER TO ARCHITECTURAL DRAWINGS FOR STUDS AND DETAILS NOT SHOWN.
- REFER TO ARCHITECTURAL DRAWINGS FOR INTERIOR STUD SIZES, OTHER THAN THOSE INDICATED.
- STUD TRACKS SHALL BE SAME GAGE AS STUDS WITH 1 1/2" FLANGES, U.N.O.
- STUD TO TRACK CONNECTION SHALL BE 1-#10 SMS AT EACH FLANGE U.N.O.
- SCREW PENETRATION THROUGH JOINED MATERIAL SHALL NOT BE LESS THAN THREE EXPOSED THREADS.
- SCREWS FOR COLD-FORMED METAL FRAMING SHALL BE GALVANIZED THREAD-FORMING OR THREAD-CUTTING PAN HEAD SCREWS, WITH A SELF DRILLING POINT. SCREWS SHALL BE INSTALLED AND TIGHTENED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

GENERAL NOTES

- GENERAL NOTES
- TYP. FURRING WALL
- DAMAGED STUD REPAIR DETAIL
- DETAIL

CONCRETE

- CONCRETE SHALL BE AS FOLLOWS:

LOCATION	MIN. COMPRESSIVE STRENGTH, f'c @ 28 DAYS (PSI)	CEMENT TYPE	AGGREGATE TYPE	MAXIMUM SIZE AGGREGATE (IN.)	MAXIMUM SLUMP (IN.)	MAXIMUM WATER/CEMENT RATIO (W/C)
SLABS ON GRADE	3,000	II/V	HARDROCK	1"	4"	0.45
OTHER	3,000	II/V	HARDROCK	1"	4"	0.50

- ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE CONFORMING TO ASTM C-33.
- CEMENT SHALL BE PORTLAND CEMENT CONFORMING TO ASTM C-150 AND SHALL BE TESTED.
- ALL REINFORCING BARS, DOWELS, ANCHOR BOLTS AND OTHER INSERTS SHALL BE SECURED IN POSITION PRIOR TO PLACING OF CONCRETE.
- CONTRACTOR SHALL SUBMIT A DRAWING FOR REVIEW INDICATING LOCATION OF CONCRETE CONSTRUCTION JOINTS PRIOR TO POURING CONCRETE. LOCATE JOINTS AT POINTS OF LOW STRESS AND TO MINIMIZE EFFECTS OF SHRINKAGE. PROVIDE KEYS UNLESS DETAILED OTHERWISE. ROUGHEN SURFACE TO RECEIVE CONCRETE TO 1/4" AMPLITUDE.
- NO PIPES OR DUCTS SHALL BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED. SEE MECHANICAL AND/OR ELECTRICAL DRAWINGS FOR LOCATION OF SLEEVES THROUGH WALLS AND FLOORS.
- REFER TO ARCHITECTURAL DRAWINGS FOR ALL MOULDS, GROOVES, CLIPS, ORNAMENTS, GROUNDS AND OTHER INSERTS TO BE CAST IN CONCRETE.

STRUCTURAL STEEL

- STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE FABRICATED IN ACCORDANCE WITH THE 2016 EDITION A.I.S.C. "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS".
- STRUCTURAL AND MISCELLANEOUS STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:
 - CHANNELS AND ANGLES: A36
 - STEEL TUBES: A500, GRADE C (Fy = 50 KSI)
- ANCHOR BOLTS AND THREADED RODS AT STEEL BASE PLATES SHALL CONFORM TO ASTM F1554 GRADE 36.
- SHOP DRAWINGS FOR STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE REVIEWED PRIOR TO FABRICATION.
- ALL WELDING SHALL CONFORM TO A.W.S. A.5.1 AND A.W.S. D.1 OF THE STRUCTURAL WELDING CODE.
- ALL WELDING SHALL BE DONE BY AWS CERTIFIED OPERATORS QUALIFIED BY AN INSPECTOR APPROVED BY D.S.A. FOR THE TYPE OF OPERATION INVOLVED.
- E-70XX ELECTRODES SHALL BE USED.
- SPECIAL INSPECTION IS REQUIRED FOR ALL SHOP AND FIELD WELDING BY A SPECIAL WELDING INSPECTOR APPROVED BY THE D.S.A.
- TYPE OF WELD (SHOP OR FIELD) SHALL BE DETERMINED BY CONTRACTOR.
- MINIMUM SIZE OF FILLET WELDS SHALL BE IN ACCORDANCE WITH AISC WHERE SMALLER WELDS ARE INDICATED OR WHERE NO SIZE IS INDICATED.
- ALL WELDS TO EXISTING STEEL SHALL BE PERFORMED USING LOW-HYDROGEN ELECTRODES.

ADHESIVE ANCHORS IN CONCRETE

- ALL ADHESIVE ANCHORS SHALL CONSIST OF SET-3G ADHESIVE MANUFACTURED BY SIMPSON STRONG-TIE, INC.
- ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ICC ESR-4507.
- COMPLY WITH ALL MANUFACTURER'S RECOMMENDATIONS.
- CONTINUOUS INSPECTION IS REQUIRED FOR ANCHOR INSTALLATION.
- ANCHORS SHALL BE STAINLESS STEEL OR HOT-DIP GALVANIZED AT EXTERIOR OR EXPOSED ANCHORS.
- DO NOT CUT OR DAMAGE EXISTING REBAR FOR ANCHOR INSTALLATION. REBAR SHOULD BE LOCATED PRIOR TO ANCHOR INSTALLATION BY NONDESTRUCTIVE METHODS.

POWER DRIVEN FASTENERS (SHOTPINS)

- HILTI LOW-VELOCITY POWER-DRIVEN FASTENERS (SHOTPINS) MAY BE USED TO ATTACH WOOD OR LIGHT GAGE COATED-STEEL FRAMING TO CONCRETE AND STEEL BASE MATERIALS IN ACCORDANCE WITH ESR-2269.
- SHOTPIN SHALL NOT BE USED IN CONCRETE CURBS.
- THE ALLOWABLE LOADS SHALL BE 100 POUNDS OR 80% OF ICC APPROVAL VALUES, WHICHEVER IS LESS.
- QUALIFICATION FOR USE OF ALL POWER ACTUATED TOOLS MUST MEET ANSI A10.3 STANDARD AS REQUIRED BY THE MANUFACTURER AND ALL OSHA REQUIREMENTS.
- TESTING:
 - THE OPERATOR, TOOL AND FASTENER SHALL BE PREQUALIFIED BY THE PROJECT INSPECTOR. THE INSPECTOR SHALL OBSERVE THE TESTING OF THE FIRST 10 FASTENER INSTALLATIONS.
 - A TEST "PULL-OUT" LOAD OF NOT LESS THAN TWICE THE DESIGN LOAD SHALL BE APPLIED TO THE PIN IN SUCH A MANNER AS NOT TO RESIST THE SPALLING TENDENCY OF THE CONCRETE SURROUNDING THE PIN. THEREAFTER, RANDOM TESTS UNDER THE PROJECT INSPECTOR'S SUPERVISION SHALL BE MADE OF APPROXIMATELY 1 IN 10 PINS.
 - IF ANY PIN FAILS TESTING, TEST ALL PINS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE PASS, THEN RESUME THE INITIAL TESTING FREQUENCY.

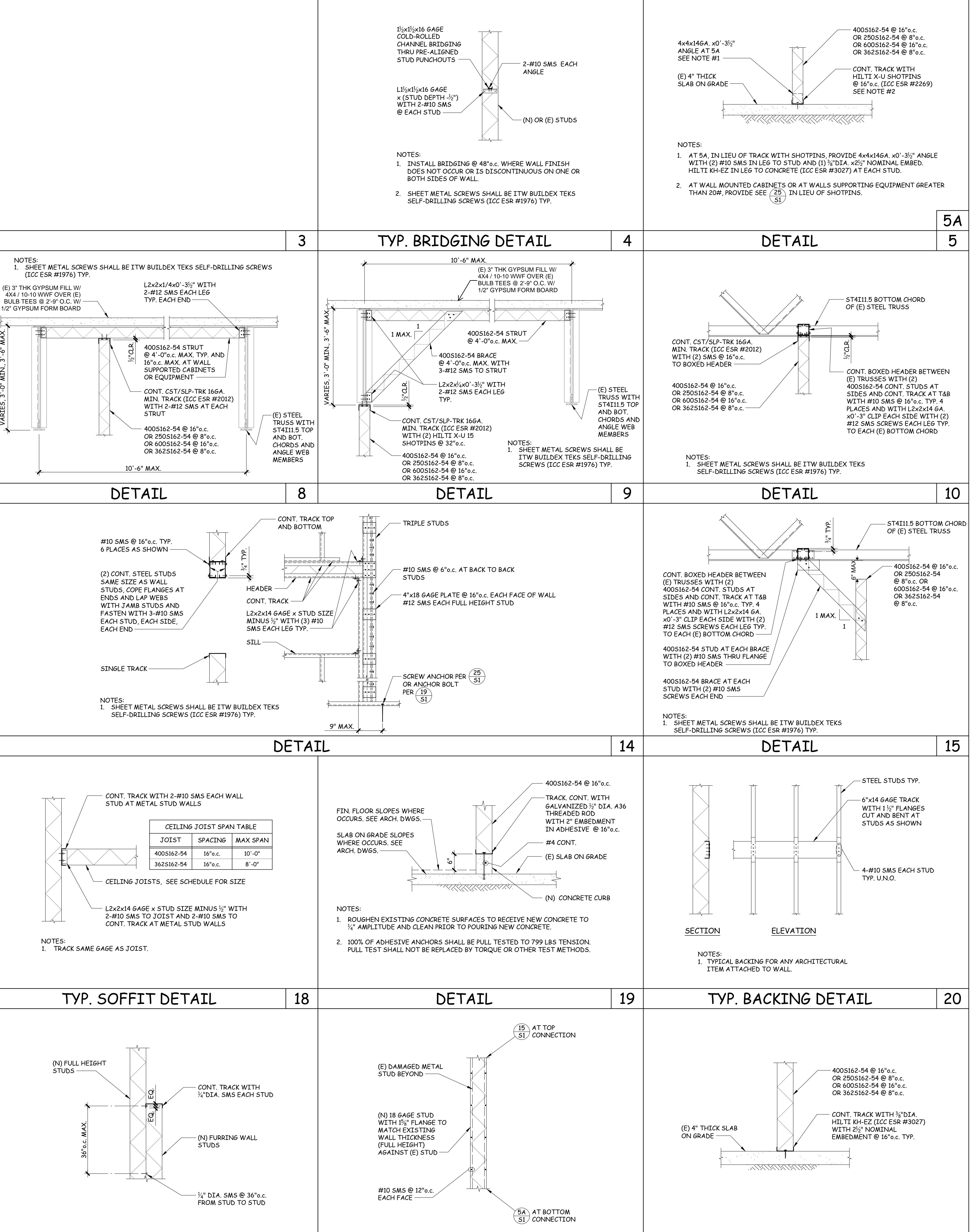
COLD-FORMED METAL FRAMING

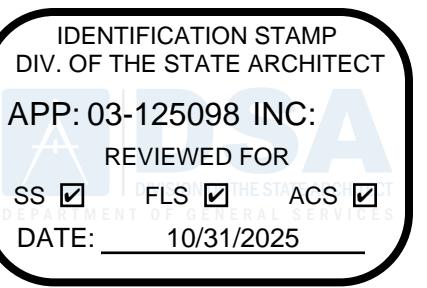
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2 1/2"	250S162-54	16	0.358	0.370	0.296	
3 1/2"	362S162-54	16	0.422	0.873	0.481	
6"	600S162-54	16	0.556	2.860	0.953	
- REFER TO ARCHITECTURAL DRAWINGS FOR STUDS AND DETAILS NOT SHOWN.
- REFER TO ARCHITECTURAL DRAWINGS FOR INTERIOR STUD SIZES, OTHER THAN THOSE INDICATED.
- STUD TRACKS SHALL BE SAME GAGE AS STUDS WITH 1 1/2" FLANGES, U.N.O.
- STUD TO TRACK CONNECTION SHALL BE 1-#10 SMS AT EACH FLANGE U.N.O.
- SCREW PENETRATION THROUGH JOINED MATERIAL SHALL NOT BE LESS THAN THREE EXPOSED THREADS.
- SCREWS FOR COLD-FORMED METAL FRAMING SHALL BE GALVANIZED THREAD-FORMING OR THREAD-CUTTING PAN HEAD SCREWS, WITH A SELF DRILLING POINT. SCREWS SHALL BE INSTALLED AND TIGHTENED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

GENERAL NOTES

- GENERAL NOTES
- TYP. FURRING WALL
- DAMAGED STUD REPAIR DETAIL
- DETAIL





The logo for Ynl Architects features the letters 'Y' and 'nl' in a large, bold, black, sans-serif font. The letter 'Y' is oriented vertically on the left, and 'nl' is positioned to its right and below it. To the right of 'nl', the word 'Architects' is written in a large, bold, black, sans-serif font. Below 'Architects', the words 'architecture | interior' are written in a smaller, black, sans-serif font.

**GROSSMAN & SPEER
ASSOCIATES, INC.
STRUCTURAL ENGINEERS**

SCIENCE LABS RENOVATION AT GAREY H.S.

POMONA UNIFIED
SCHOOL DISTRICT

800 S. GAREY AVENUE

DETAILS

DETAILS

5

MAIN ELEVATION

4'-0" MIN

3'-0" MAX

4"-CLR.

12" DIA. CONCRETE

400S162-54 @ 12" o.c. WITH #10 SMS EACH FLANGE TO TRACK T&B SEE ARCH. DWGS. FOR STUD SIZE

400T150-54

CONT. 400T150-54 BETWEEN HSS WITH ANCHORS PER 5 OR 25 S1 SEE ARCH. DWGS.

400S162-54 EACH SIDE OF HSS

4-#10 SMS STUD TO POST T&B TYP.

(E) 4" THICK SLAB ON GRADE

HSS2x2x $\frac{3}{16}$ @ 4'-0" o.c. MAXIMUM AND 9" MAX. FROM EACH END OF WALL. OFFSET HSS WITHIN WALL AS REQUIRED FOR PLUMBING LINES

DETAIL A

HOLE FOR ANCHOR CENTERED ON BENT PLATE

HOLE FOR ANCHOR CENTERED ON BENT PLATE

12 GAGE x2" WIDE STEEL BENT PLATE CLIP

CABLE BRACE

2-WIRE ROPE CLIPS SIZED AS REQUIRED BY CABLE

1" 1"

1"

3"

DETAIL B

ST4I11.5 BOTTOM CHORD OF (E) STEEL TRUSS @ 10'-6" o.c. MAX.

1/4" DIA. A307 THRU-BOLT TO BOXED HEADER

CONT. BOXED HEADER BETWEEN (E) TRUSSES WITH (2) 400S162-54 CONT. STUDS AT SIDES AND CONT. TRACK AT T&B WITH #10 SMS @ 16" o.c. TYP. 4 PLACES WITH L2x2x14 GA. x0'-3" CLIP EACH SIDE WITH (2) #12 SMS SCREWS EACH LEG TYP. TO EACH (E) BOTTOM CHORD

CABLE BRACE WITH 2" x2" x12 GAGE x0'-2" STEEL BENT PLATE CLIP. WHERE BRACE ALIGNS WITH (E) STEEL TRUSS, ACCEPTABLE TO OMIT THE BOXED HEADER AND PROVIDE 1/4" DIA. A307 BOLT TO BOTTOM CHORD OF (E) STEEL TRUSS

3/4" TYP.

DETAIL C

ST4I11.5 BOTTOM CHORD OF (E) STEEL TRUSS @ 10'-6" o.c. MAX.

1/4" DIA. A307 THRU-BOLT TO BOXED HEADER

CONT. 400S162-54, 600S162-54 OR 3x3x $\frac{3}{8}$ (10'-6" MAX. SPAN) BETWEEN (E) TRUSSES WITH (2) #12 SMS TO EACH (E) BOTTOM CHORD

CABLE BRACE WITH 2" x2" x12 GAGE x0'-2" STEEL BENT PLATE CLIP WITH 1/4" DIA. A307 BOLT TO (E) STEEL TRUSS TOP CHORD

HANGER CABLE OR THREADED ROD WITH SPRING JNT A REQUIRED

Pmax 50#

DETAIL D

ST4I11.5 BOTTOM CHORD OF (E) STEEL TRUSS @ 10'-6" o.c. MAX.

1/4" DIA. A307 THRU-BOLT TO BOXED HEADER

CONT. 400S162-54, 600S162-54 OR 3x3x $\frac{3}{8}$ (10'-6" MAX. SPAN) BETWEEN (E) TRUSSES WITH (2) #12 SMS TO EACH (E) BOTTOM CHORD

CABLE BRACE WITH 2" x2" x12 GAGE x0'-2" STEEL BENT PLATE CLIP WITH 1/4" DIA. A307 BOLT TO (E) STEEL TRUSS TOP CHORD

HANGER CABLE OR THREADED ROD WITH SPRING JNT A REQUIRED

Pmax 50#

DETAIL E

ST4I11.5 BOTTOM CHORD OF (E) STEEL TRUSS @ 10'-6" o.c. MAX.

1/4" DIA. A307 THRU-BOLT TO BOXED HEADER

CONT. 400S162-54, 600S162-54 OR 3x3x $\frac{3}{8}$ (10'-6" MAX. SPAN) BETWEEN (E) TRUSSES WITH (2) #12 SMS TO EACH (E) BOTTOM CHORD

CABLE BRACE WITH 2" x2" x12 GAGE x0'-2" STEEL BENT PLATE CLIP WITH 1/4" DIA. A307 BOLT TO (E) STEEL TRUSS TOP CHORD

HANGER CABLE OR THREADED ROD WITH SPRING JNT A REQUIRED

Pmax 50#

NOTES:

1. THIS DETAIL SHALL BE USED ONLY WHERE SPECIFICALLY REFERENCED.

TAILS

NOTES:
1. WHERE ADJACENT FOOTING OCCURS, ACCEPTABLE TO MERGE FOOTINGS

LAB ISLAND DETAIL

11 12 13 14 15

16 17 18 19 20

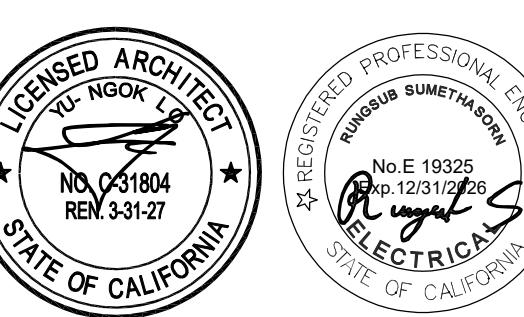
GENERAL NOTES

- THE FOLLOWING GENERAL NOTES ARE APPLICABLE AS STATED BELOW, EXCEPT WHERE SPECIFICALLY INDICATED AND NOTED OTHERWISE ON THE DRAWINGS OR IN THE SPECIFICATIONS. REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION REQUIREMENTS AND SCOPE OF WORK.
- THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OR ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHERE THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, THE CONTRACTOR SHALL SUBMIT A CORRECTIVE ACTION DOCUMENT (CAD) OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND THE REQUIRED WORK SHALL BE SUBMITTED TO DSA AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. SECTION 43-7(C), CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, C.C.R.).
- WORKMANSHIP AND ALL EQUIPMENT/STANDARDS SHALL CONFORM TO 2022 CALIFORNIA CODE REGULATIONS (CCR), TITLE 24 C.C.R., SPECIFICATIONS AND DETAILS FOR CONSTRUCTION AS FURNISHED BY THE CONTRACT DRAWINGS, WORKMANSHIP AND MATERIALS NOT IN CONFORMANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS ARE SUBJECT TO REMOVAL AND/OR REPLACEMENT BY CONTRACTORS EXPENSE.
- BEFORE SUBMITTING A CORRECTIVE ACTION DOCUMENT, THE CONTRACTOR SHALL MATCH THE EXISTING JOB CONDITIONS, VERIFY EXISTING AND NEW EQUIPMENT, INCLUDING NECESSARY PULL BOXES, SIZE AND NUMBER OF CONDUITS AND CONDUCTORS, PANELS, DISCONNECT SWITCHES, CABLES, TIME CLOCKS ETC., WHETHER SHOWN ON DRAWINGS OR NOT, BUT REQUIRED FOR PROVIDING A COMPLETE AND OPERABLE, WITHOUT ADDITIONAL COST TO THE DISTRICT.
- AFTER AWARD OF THE CONTRACT, THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT/ENGINEER FOR APPROVAL, ELECTRONIC DOCUMENTS (PDF) OF ALL REQUIRED SHOP DRAWINGS, BROCHURES AND OTHER DOCUMENTS, INCLUDING THE MANUFACTURER'S CATALOG NUMBER, DIMENSIONS AND PERIODIC TESTS FOR THE EQUIPMENT, WHICH HAVE NOT BEEN PROVIDED, DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING ALL APPROVALS OF SHOP DRAWINGS SUBMITTED HAVE BEEN APPROVED BY ARCHITECT/ENGINEER OF THE PROJECT.
- IRRELEVANT INFORMATION ON DRAWINGS AND DATA SHEETS SHALL BE COMPLETELY MARKED OUT LEAVING ONLY DATA THAT PERTAINS TO THE ITEMS SUBMITTED FOR APPROVAL. EQUIPMENT SHALL NOT BE DELIVERED TO THE SITE UNTIL SHOW DRAWINGS HAVE BEEN APPROVED. APPROVAL OF THE SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO CONFORM TO THE PLANS AND SPECIFICATIONS NOR OF RESPONSIBILITY FOR SATISFACTORY PERFORMANCE OF EQUIPMENT.
7. A SET OF APPROVED DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.
8. ANY DISCREPANCIES BETWEEN THESE DRAWINGS AND ACTUAL FIELD CONDITIONS MUST BE REPORTED TO THE ARCHITECT/ENGINEER OF THE PROJECT. ANY DEVIATIONS FROM THESE DRAWINGS AS FURNISHED BY THE CONTRACTOR MUST BE APPROVED BY THE ARCHITECT/ENGINEER OF THE PROJECT AND DOCUMENTED ON THE DRAWINGS AS FURNISHED BY THE CONTRACTOR.
9. EQUIPMENT AND DEVICE LOCATIONS, ELEVATIONS, RISER DIAGRAMS, CONTROLS, WIRING DIAGRAMS, SCHEMATICS AND DETAILS SHOWN ON PLANS ARE CONCEPTUAL AND ILLUSTRATE ONLY THE FUNCTIONAL RELATIONSHIPS BETWEEN COMPONENTS OF THE SYSTEM AND THE DESIGN INTENT OF THE PROJECT. CONTRACTOR SHALL INSTALL DEVICE AS SITE CONDITIONS PERMITS.
10. CONTRACTOR TO PROVIDE ALL NECESSARY COMPONENTS REQUIRED TO MEET THE SPECIFIED SYSTEM OPERATIONAL PER DESIGN INTENT OF THE CONTRACTOR TO MAKE THE SYSTEM FUNCTIONAL, OPERATIVE AND ACCEPTABLE TO DISTRICT.
11. PROVIDE ADDITIONAL CONDUITS, BOXES AND ADAPTER PLATES AS REQUIRED FOR ALL SURFACE MOUNTED CONDUITS/EQUIPMENT/DEVICES.
12. THE CONTRACTOR SHALL ADJUST/INSTALL ALL EQUIPMENT, DEVICES AND CONTROLS TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FAILURE OF THE SYSTEM.
13. ALLOW FOR RELOCATION OF DEVICES WITHIN THE SAME AREA WHERE OBSTRUCTION ARE ENCOUNTERED IN THE LOCATIONS SHOWN ON PLANS, SUBJECT TO REQUIRED WORK SPACES, CODE REQUIRED CLEARANCES ACCESS TO MAINTENANCE ETC.
14. THE CONTRACTOR SHALL FURNISH ALL LABOR, SUPERVISION, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, WAREHOUSING AND ANY OTHER SERVICES REQUIRED TO COMPLETE THE PROJECT IN A TIMELY AND EFFICIENT MANNER.
15. ALL WORK IS TO BE COMPLETED ON REGULAR HOURS AS DIRECTED BY THE DISTRICT.
16. CONTRACTORS TO COMPLY WITH ALL CABLE, SAFETY LAWS (OSHA, CAL/OSHA ETC.). IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT THE PROJECT IS SAFELY LAID OUT AND PROTECTIVE ENFORCED AND TO MAINTAIN A SAFE CONSTRUCTION PROJECT.
17. ERECT AND MAINTAIN SUITABLE BARRIERS, PROTECTIVE DEVICES, LIGHTS AND WARNING SIGNS WHERE REQUIRED FOR THE PROTECTION OF THE PUBLIC AND EMPLOYEES, ENTREES TO ROOMS AND OTHER GUARDED LOCATIONS THAT CONTAIN LIVE PARTS SHALL BE MARKED WITH A CONSCIOUS WARNING SIGN FORBIDDING UNQUALIFIED PERSONS TO ENTER.
18. ALL WORK THAT INVOLVES "SHUT-DOWN" OF EXISTING UTILITIES OR PORTIONS THEREOF, SHALL BE DONE AT SUCH TIMES THAT WILL CAUSE THE LEAST INCONVENIENCE TO THE DISTRICTS ACTIVITIES. THE EXACT TIME AND LENGTH OF "SHUT-DOWN" SHALL BE APPROVED BY DISTRICT WITH WRITTEN NOTICE AT LEAST 7 DAYS IN ADVANCE OF THE REQUIRED SHUT-DOWN.
19. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-3/8, PART 1, TITLE 24, C.C.R.
20. UPON COMPLETION OF THE INSTALLATION OF THE SYSTEM, COOPERATE IN CONDUCTING AN OPERATING TEST TO DEMONSTRATE THAT ALL EQUIPMENT IS OPERATING IN A SATISFACTORIAL MANNER. CONTRACTOR SHALL SUBMIT STATEMENT OF COMPLIANCE AND REQUEST FINAL INSPECTION. A SATISFACTORIAL TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA INSPECTOR AND DISTRICT PERSONNEL. PROVIDE TRAINING FOR M & O STAFF.
21. DSA, I.O.R., ARCHITECT/ENGINEER AND SCHOOL DISTRICT SHALL BE NOTIFIED A MINIMUM OF 48 HRS. PRIOR TO THE FINAL INSPECTION AND/OR TESTING.
22. INDIVIDUAL ITEMS OF WORK ARE DETAILED IN THE VARIOUS SECTIONS OF THIS SCOPE OF WORK. THE ATTACHED DRAWINGS AND THE NOTES AND LEGENDS ON THE DRAWINGS, THE CONTRACTOR IS RESPONSIBLE TO COMPLETE THE REQUIREMENTS FOUND IN ANY ONE OF THE ABOVE.
23. THE CONTRACTOR SHALL PROVIDE A RECORD OF COMPLETION ("AS-BUILT") DRAWINGS UPON COMPLETION OF CONSTRUCTION, INCLUDING TESTING OF ALL EQUIPMENT, DEVICES, CONTROLS, AND ENSURING THE ENTIRE SYSTEM IS OPERATIONAL AND PROGRAMMED. A COPY OF THIS COMPLETED RECORD ("AS-BUILT" DRAWINGS) SHALL BE SUBMITTED TO THE I.O.R, ARCHITECT/ENGINEER, AND DISTRICT FOR FINAL ACCEPTANCE.
24. NOTIFY THE SUPPLIER OF ANY MISSING OR BROKEN PARTS OR ANY MISSING OR BROKEN FIXTURES AT LEAST FOURTEEN (14) DAYS PRIOR TO JOB COMPLETION. EQUIPMENT INSTALLED WITHOUT APPROVAL THEREOF SHALL BE DONE AT THE RISK OF THE CONTRACTOR AND THE COST OF REMOVAL OF SUCH EQUIPMENT OR RELATED WORK WHICH IS JUDGED UNSATISFACTORY FOR ANY REASON SHALL BE AT THE EXPENSE OF THE CONTRACTOR.
25. CONTRACTOR SHALL WARRANTY MATERIALS AND INSTALLATION FROM THE DATE OF CONTRACT COMPLETION. PER CONTRACT REQUIREMENTS
26. THE CONTRACTOR SHALL REPAIR OR REPLACE ALL AREAS DAMAGED BY DEMOLITION OR CONSTRUCTION AND FINISH TO MATCH EXISTING ADJACENT SURFACES.
27. PROVIDE ALL PATCHING, PAINTING AND FINISHES, INCLUDING BUT NOT LIMITED TO FLOOR/WALL ETC., FOR ALL DEVICES LOCATED IN EXISTING AREAS TO RESTORE TO ORIGINAL CONDITIONS AND MUST BE APPROVED AND COORDINATED WITH THE ARCHITECT/ENGINEER AND DISTRICT.
28. ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM (PFS) OR OTHER APPROVED DEVICE TO MAINTAIN INTEGRITY OF THE EXISTING RATING. APPROVED TYPES OF MATERIALS SHALL BE IDENTIFIED WITHIN THE PROJECT SPECIFICATIONS.
29. A "DSA CERTIFIED" INSPECTOR EMPLOYED BY THE DISTRICT OWNER AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-3/2, CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, C.C.R.).
30. A "DSA CERTIFIED" INSPECTOR WITH CLASS (2) CERTIFICATION IS REQUIRED FOR THIS PROJECT. SEE ARCHITECTURAL.
31. AN INSPECTOR WHO IS SPECIALLY QUALIFIED IN MECHANICAL AND ELECTRICAL WORK WILL BE REQUIRED FOR THIS PROJECT.
32. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.

DEMOLITION NOTES

- BEFORE COMMENCING DEMOLITION WORK, THE CONTRACTOR SHALL REVIEW THE COMPLETE SET OF CONSTRUCTION DOCUMENTS AND WORKING DRAWINGS AND FIELD VERIFY ALL EXISTING CONDITIONS AND ANY QUESTIONABLE WORK ASSOCIATED WITH DISCONNECTING AND/OR REMOVING OF EXISTING ALARM SYSTEMS AND EQUIPMENT. SHOP DRAWINGS FOR THE REMOVAL OF EXISTING EQUIPMENT AND DEMOLITION OF EXISTING CONDUITS AND EQUIPMENT, INTERFACED WITH EQUIPMENT THAT IS TO REMAIN OR INTERFERE WITH THE NEW EQUIPMENT INSTALLATION. IN SUCH SITUATIONS CONTRACTOR SHALL EXTEND PATHWAYS AND WIRING TO MATCH EXISTING BY TYPE & SIZE TO PROVIDE OPERABLE SYSTEM.
- THESE DRAWINGS INDICATE EXISTING CONDITIONS WHICH WERE TAKEN FROM RECORD DRAWINGS/FIELD VISUAL INSPECTIONS. THE ARCHITECT/ENGINEER ASSUMES NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF THESE CONDITIONS. THE CONTRACTOR SHALL VERIFY AND INVESTIGATE ALL EXISTING FIELD CONDITIONS AND EXERCISE CAUTION IN THE DEMOLITION PROCESS, AND PROMPTLY NOTIFY THE CONSTRUCTION MANAGEMENT OF ANY UNEXPECTED CONDITIONS.
- EXISTING EQUIPMENT AND EQUIPMENT NOT TO BE REMOVED, RELOCATED OR DISMANTLED SHALL BE LEFT IN PLACE AND NOT DISTURBED. THE CONTRACTOR SHALL NOTIFY THE DISTRICT, CONTRACTOR AND ARCHITECT/ENGINEER IMMEDIATELY OF PLANS FOR REMOVAL OF EXISTING CONDUITS AND EQUIPMENT, INTERFACED WITH EQUIPMENT THAT IS TO REMAIN OR INTERFERE WITH THE NEW EQUIPMENT INSTALLATION. IN SUCH SITUATIONS CONTRACTOR SHALL EXTEND PATHWAYS AND WIRING TO MATCH EXISTING BY TYPE & SIZE TO PROVIDE OPERABLE SYSTEM.
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DWG_V2		07/15/25
DWG_V3		10/07/25



SCIENCE LAB RENOVATION AT GAREY HIGH SCHOOL

321 W. LEXINGTON AVE.
POMONA, CA 91766

POMONA UNIFIED SCHOOL DISTRICT

800 S. GAREY AVENUE
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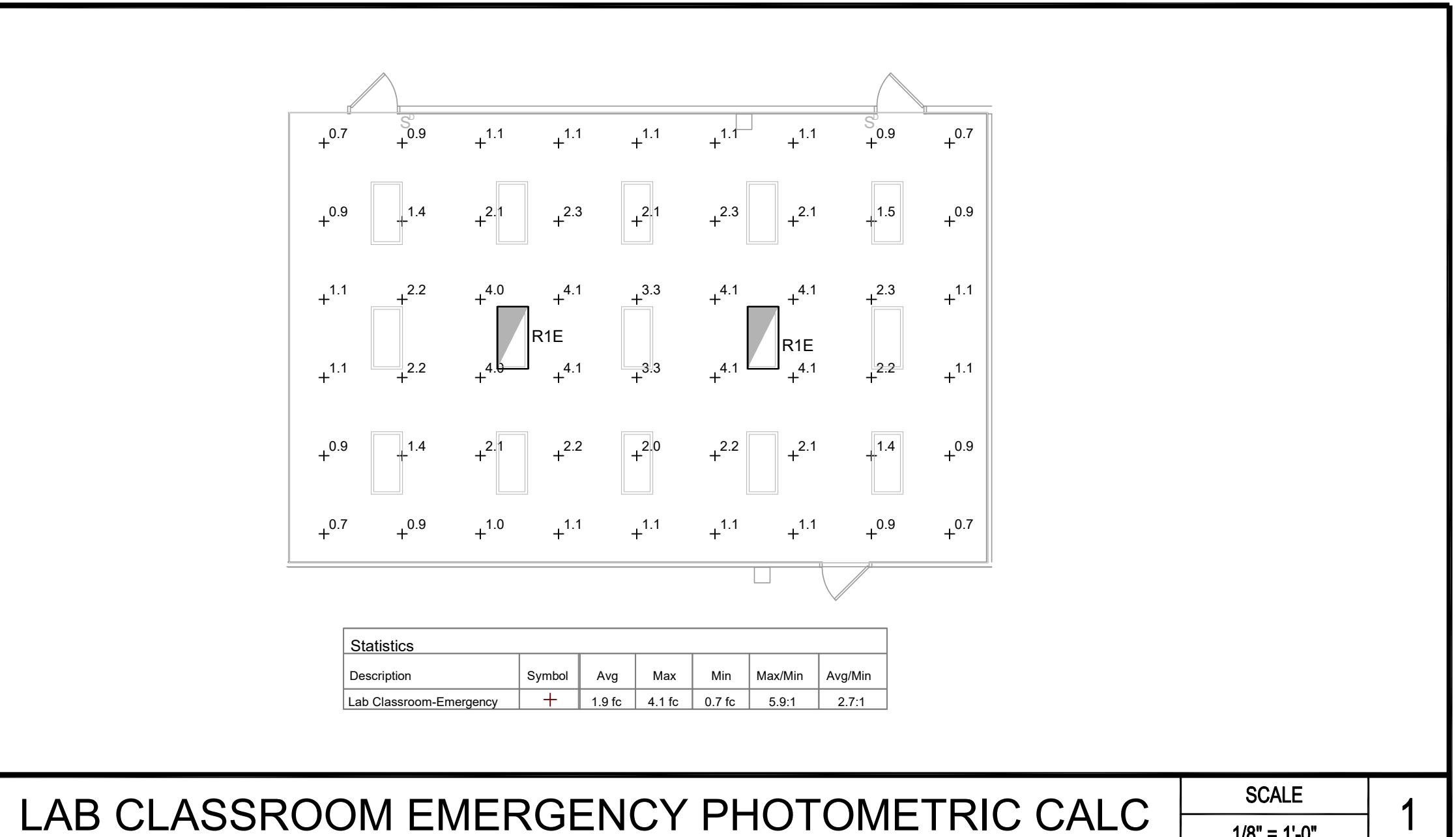
ELECTRICAL LIGHTING FIXTURE SCHEDULE & TITLE 24 CALCS

DATE	10/07/2025
QSA/M	A# 03-125098
	FILE NO. 19-H20

SHEET

E0.3

LIGHTING FIXTURE SCHEDULE							
Fixture Type	Manufacturer	Model	Description	Mounting	Lamp	Watt	Voltage
R1	LITHONIA LIGHTING	2BLT4-48L-ADP-EZ1-LP840-NLTAIR2-REST7	RECESSED LED 2x4 FIXTURE eLdLED 48W (1% 0-10 volt dimming) nLight AIR control with PIR integral occupancy sensor and automatic dimming photocell	SURFACE	LED 4000K	39.3	M VOLT
R1E	LITHONIA LIGHTING	2BLT4-48L-ADP-EZ1-LP840-NLTAIR2-REST7-E10WLCP	RECESSED LED 2x4 FIXTURE eLdLED dims to 1% (0-10 volt dimming) nLight AIR PIR integral occupancy sensor with automatic dimming photocell and UL924 Emergency Operation, via power interrupt detection EM Self-Diagnostic battery pack, 10W Constant Power, Certified in CA Title 20 MAEDBS	RECESSED	LED 4000K	39.3	MVOLT
E1	LITHONIA LIGHTING	LQM-S-W-3-R-MVOLT-EL-N-SD	EXIT SIGN	CEILING		1	MVOLT



LAB CLASSROOM EMERGENCY PHOTOMETRIC CALC

SCALE 1/8" = 1'-0"

STATE OF CALIFORNIA
Indoor Lighting
CERTIFICATE OF COMPLIANCE
NRCC-114
Project Name: Garey HS
Report Page: (Page 3 of 7)
Date Prepared: 2/7/2025

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Schema Version: rev 2020101
Compliance ID: EnergyPro-9702-0225-0043
Report Generated: 2025-02-07 09:38:48

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NRCC-114
Project Name: Garey HS
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
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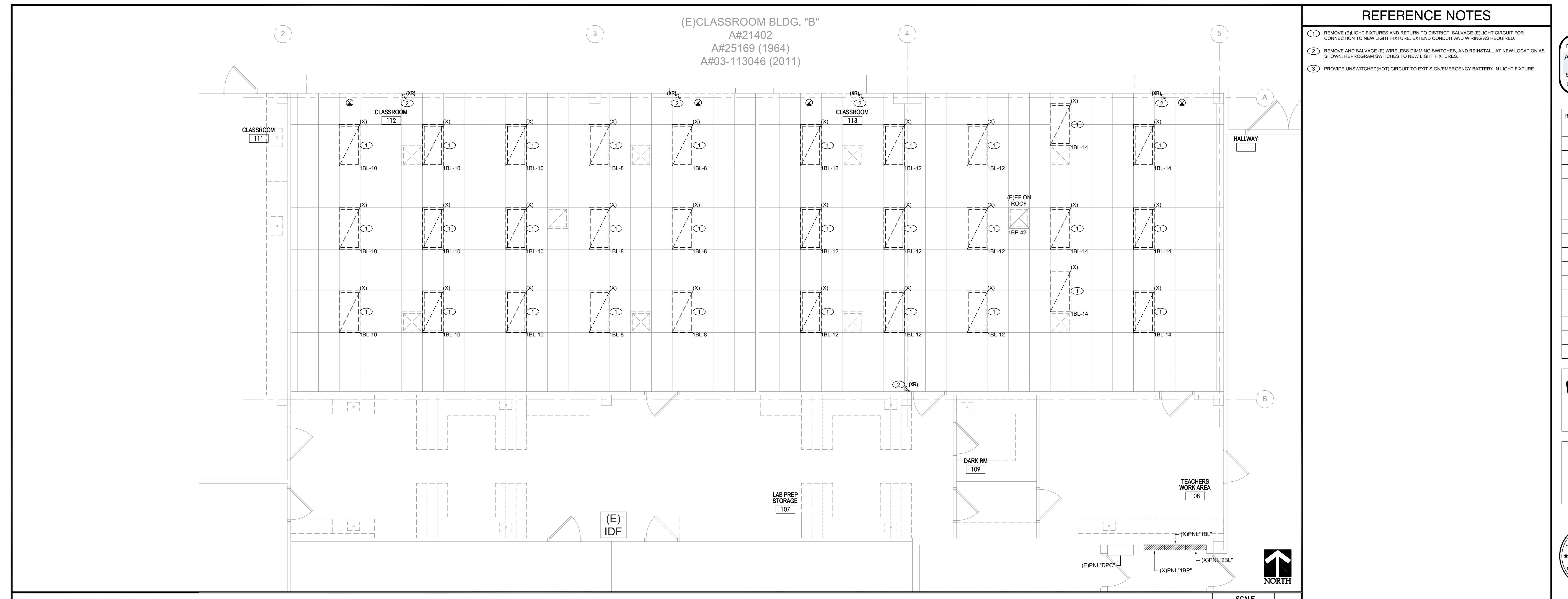
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QSA/M A# 03-125098
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SHEET

E0.3





REFERENCE NOTES

- ① REMOVE (E)LIGHT FIXTURES AND RETURN TO DISTRICT. SALVAGE (E)LIGHT CIRCUIT FOR CONNECTION TO NEW LIGHT FIXTURE. EXTEND CONDUIT AND WIRING AS REQUIRED.
- ② REMOVE AND SALVAGE (E)WIRELESS DIMMING SWITCHES, AND REINSTALL AT NEW LOCATION AS SHOWN. REPROGRAM SWITCHES TO NEW LIGHT FIXTURES.
- ③ PROVIDE UNSWITCHED(HOT) CIRCUIT TO EXIT SIGN/EMERGENCY BATTERY IN LIGHT FIXTURE.

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APP: 03-125098 INC:
REVIEWED FOR
SS FLS ACS
DATE: 10/31/2025

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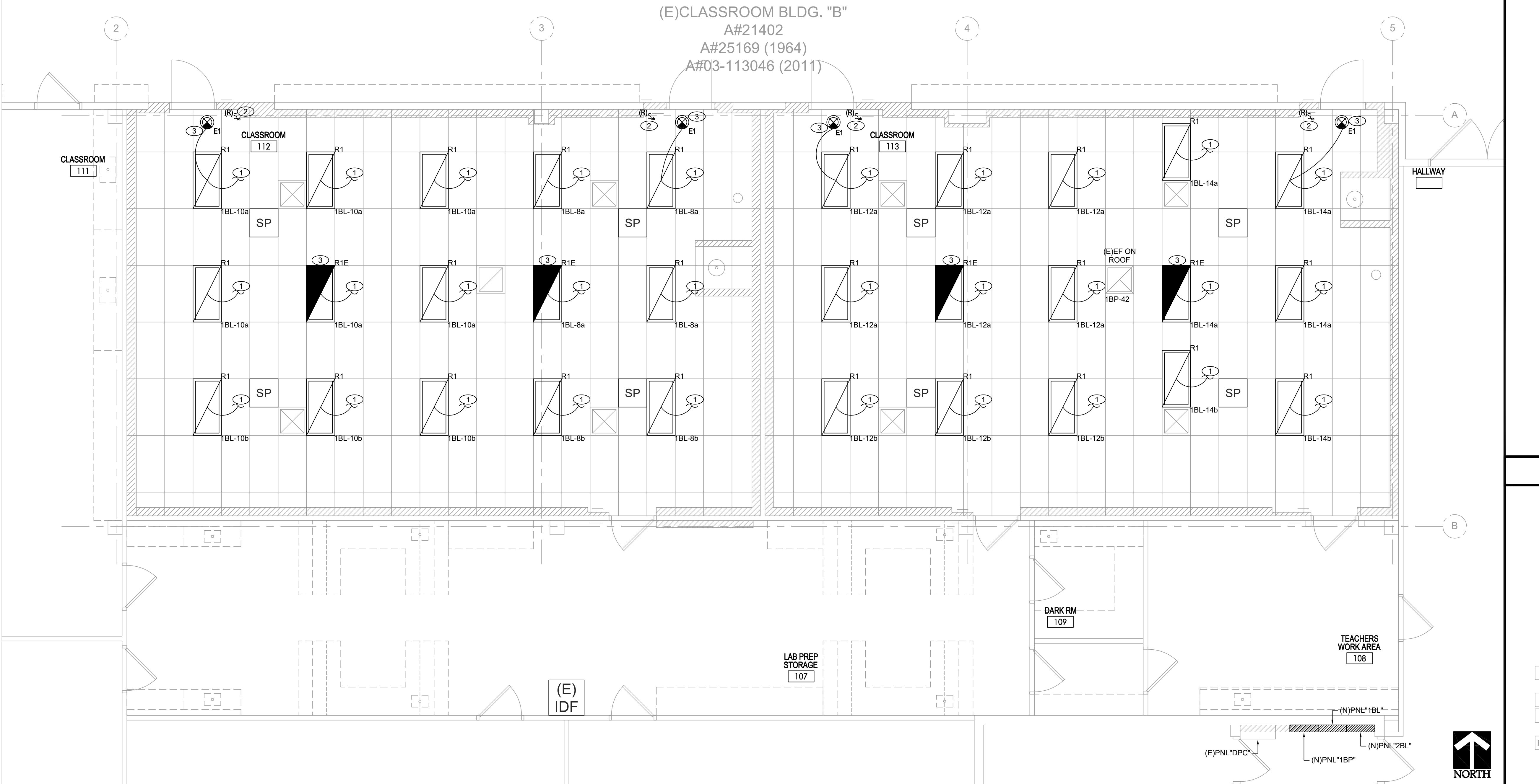
Yul Architects
architecture | interior

MDC
engineers, INC
Consulting Engineers
5101 E La Palma Ave, Suite 205
Anaheim Hills, CA 92807-2096
Tel: (714) 942-3344
Fax: (714) 942-3343

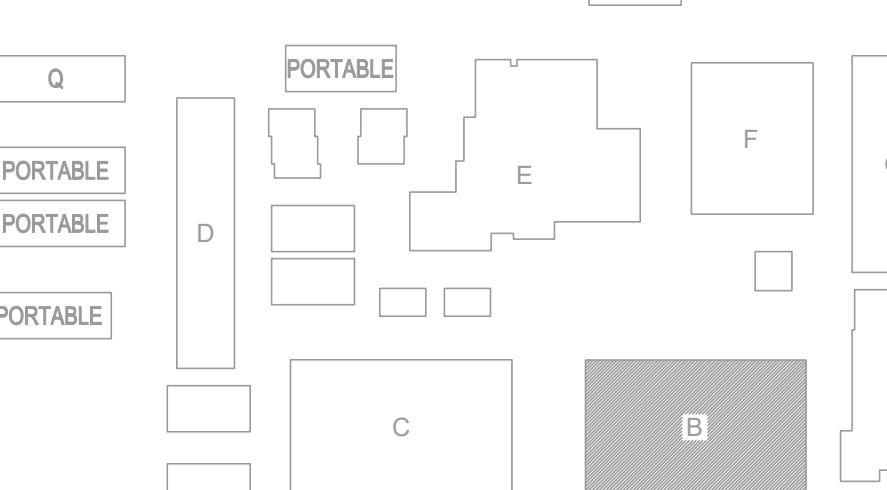


SCIENCE LAB [B112] & [B113] BUILDING "B" - ELECTRICAL DEMOLITION LIGHTING PLAN

SCALE 1



KEY PLAN



ELECTRICAL LIGHTING PLAN

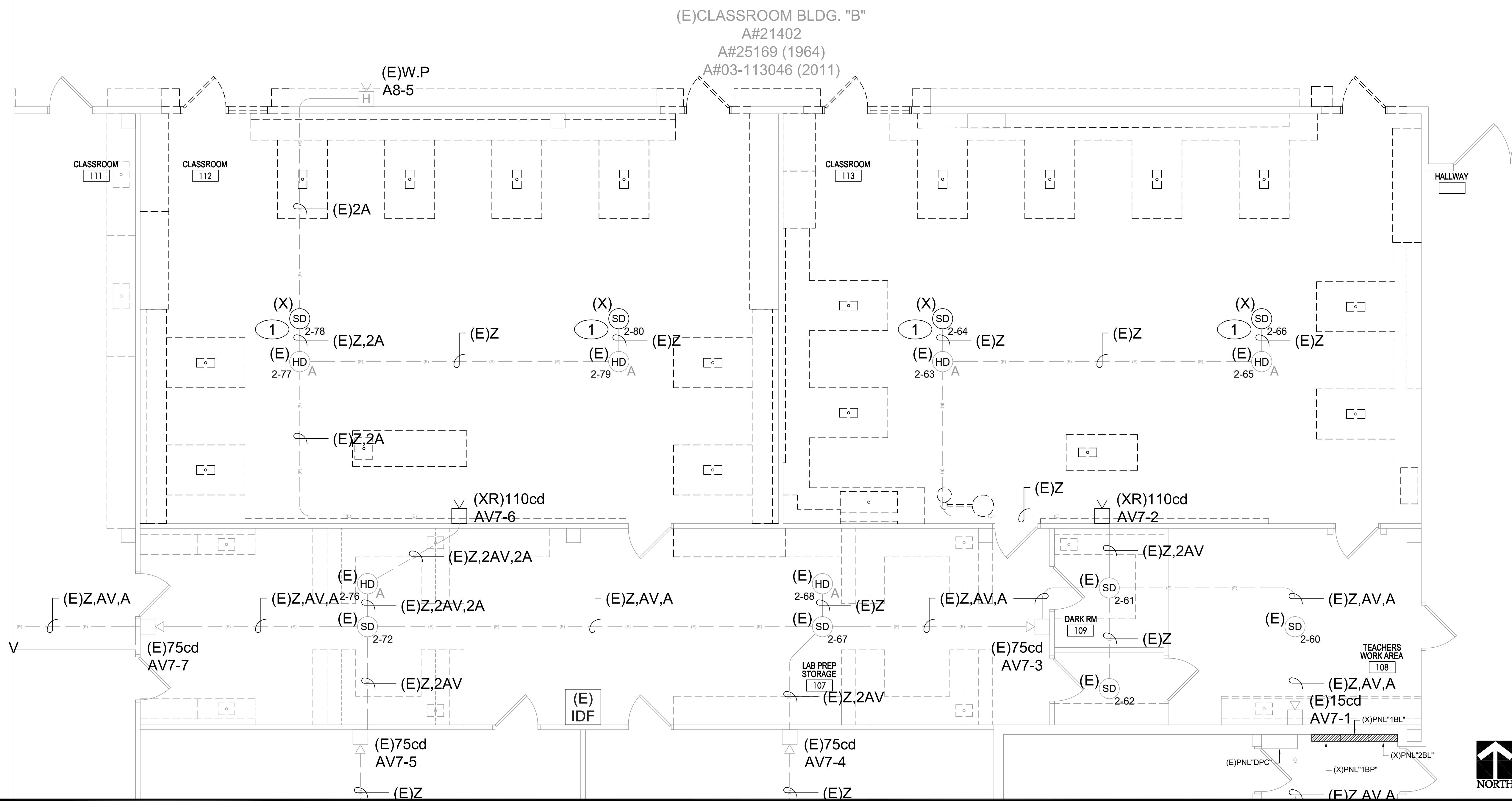
DATE 10/07/2025
DSA # A# 03-125098
FILE NO. 19-H20

SHEET

E2.1

SCIENCE LAB
RENOVATION
AT
GAREY HIGH SCHOOL
321 W. LEXINGTON AVE.
POMONA, CA 91766

POMONA UNIFIED
SCHOOL DISTRICT
800 S. GAREY AVENUE
POMONA, CALIFORNIA 91766



GENERAL NOTES

1. FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION SHALL BE IN COMPLIANCE WITH CFC 2022, CHAPTER 9, 11, AND 13 & CBC 2022, CHAPTER 30.
 2. EXISTING FIRE ALARM SYSTEM SHALL REMAIN IN SERVICE, UNIMPAIRED, AT ALL TIMES DURING CONSTRUCTION, UNLESS UNDER FIRE WATCH.
 3. PROVIDE FIRE WATCH UNTIL THE NEW SYSTEM IS IN OPERATION AND APPROVED BY I.O.R., DSA (IRP) AND OTHER APPROPRIATE PERMIT.
 4. RE-PROGRAM AND TEST FIRE ALARM DEVICES AT EXISTING FAFC PRIOR COMPLETION OF WORK.
 5. PROVIDE EXTENSION BOX AND EXTEND CONDUIT AS REQUIRED. AT ALL FURRED WALLS, REFER TO DRAWINGS (A#03-113046, 2011). ENGINEER ASSUMES NO RESPONSIBILITY FOR ACCURACY AND CONTRACTOR SHALL FIELD VERIFY AND PROVIDE ANY REMEDIATION TO PROVIDE FULLY OPERABLE FIRE ALARM SYSTEM.
 6. EXISTING CONDUIT MAY BE RE-USED FOR NEW WORK, PROVIDED THEY MEET MINIMUM CONDUIT SIZE REQUIREMENTS AND WIRE FILL CAPACITY (40%). OTHERWISE PROVIDE NEW CONDUITS. CONTRACTOR AT HIS OPTION MAY REUSE EXISTING CONDUITS WITHIN THE BUILDING/SITE AND PROVIDE NEW CONDUITS TO EXTEND TO NEW DEVICE LOCATIONS AS NECESSARY.

REFERENCE NOTES

(1) REPLACE EXISTING SMOKE DETECTOR WITH NEW MULTI-SENSOR SMOKE AND CO DETECTOR (SIGA-02CD) INCLUDING ADDRESSABLE (SOUNDER BASE (SIGA-A840T) AND IMPORAL PATTERN (SIGA-02CD)) TO EACH SMOKE DETECTOR. EACH SMOKE DETECTOR SHALL BE IN A SEPARATE LOOP AND CONNECTED TO THE NEW SYSTEM AS REQUIRED TO ACCOMMODATE NEW DEVICES (SEE WIRING DETAIL ON SHEET E8.2) AND RE-PROGRAM AT EXISTING FAFC (A#03-113046).
 (2) PROVIDE CONTROL RELAY MODULE (SIGA-CR) FOR UTILITY CONTROLLER. FIELD VERIFY LOCATION, DISABLE ALL UTILITY AND FIRE ALARM SIGNAL. THE UTILITIES CAN BE ACTIVATED ONCE THE FIRE ALARM SIGNAL IS CLEARED AND MANUALLY OPERATING KEY AT UTILITY CONTROLLER. REFER TO SPECIFICATION 11.33.33

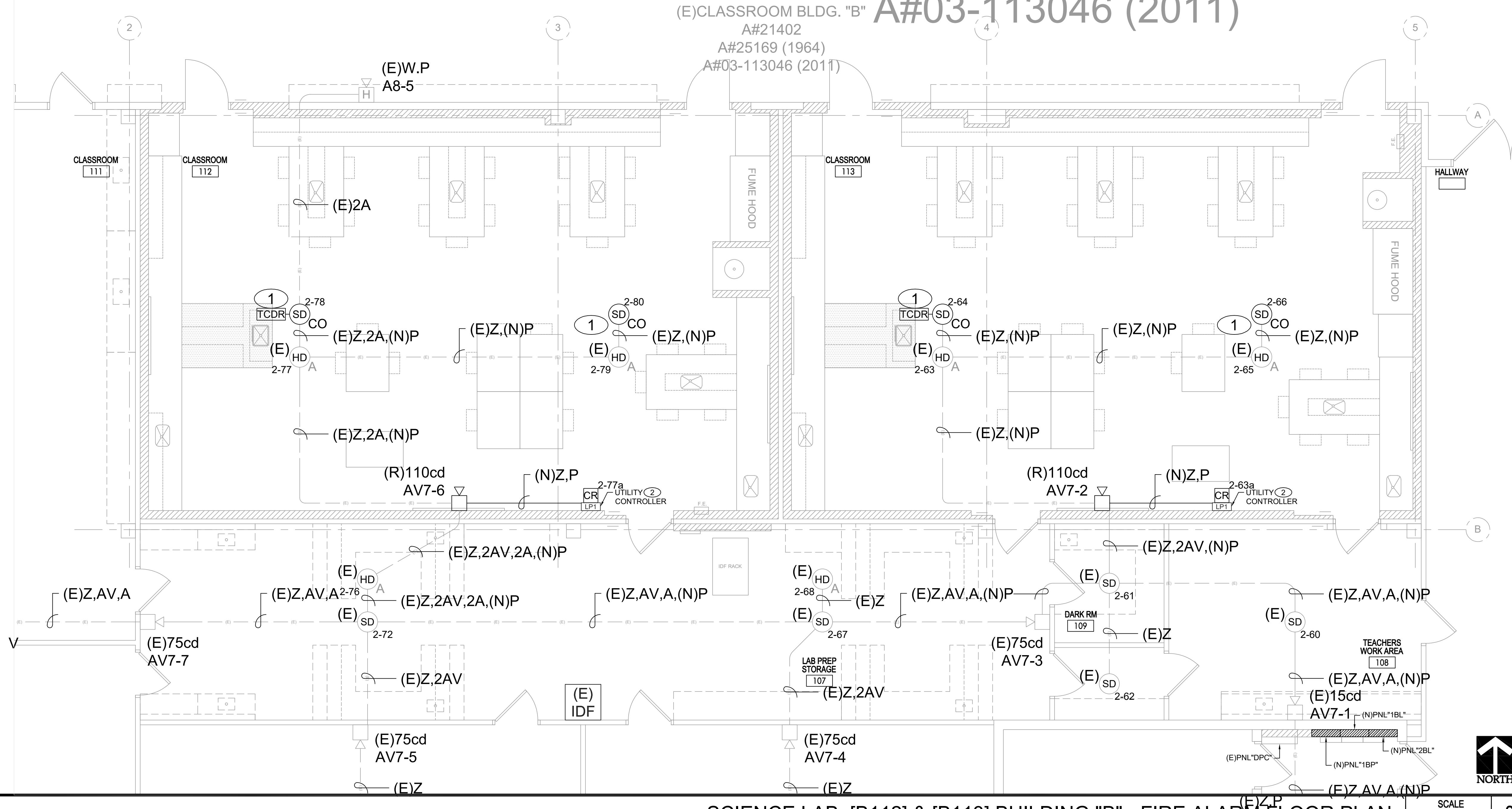
Ynl Architects
architecture | interior

multidisciplinary collaborative
MDC engineers,inc
Consulting Engineers

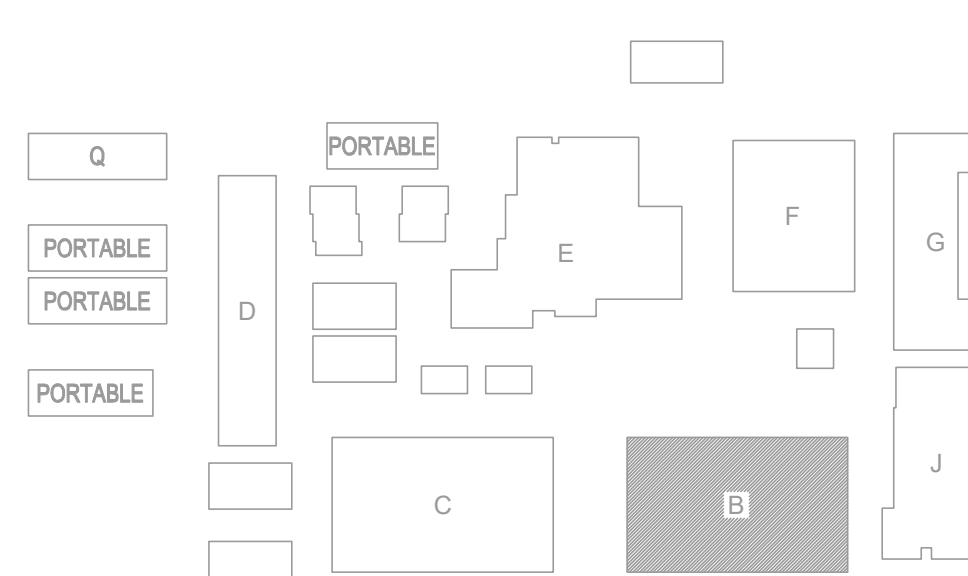
NO. C41804
REV. 3-31-27
NAME: RICHARD SUMMERS
LICENSED ARCHITECT
STATE OF CALIFORNIA
NO. E 12125
REV. 3-31-27
NAME: RICHARD SUMMERS
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

SCIENCE LAB [B112] & [B113] BUILDING "B" - FIRE ALARM DEMOLITION FLOOR PLAN (E) CLASSROOM BLDG. 'B' A#03-113046 (2011)

SCALE
1/4" = 1'-0"



KEY PLAN



FIRE ALARM FLOOR PLAN

DATE 10/07/2025
DSA # A# 03-125098
FILE NO. 19-H20

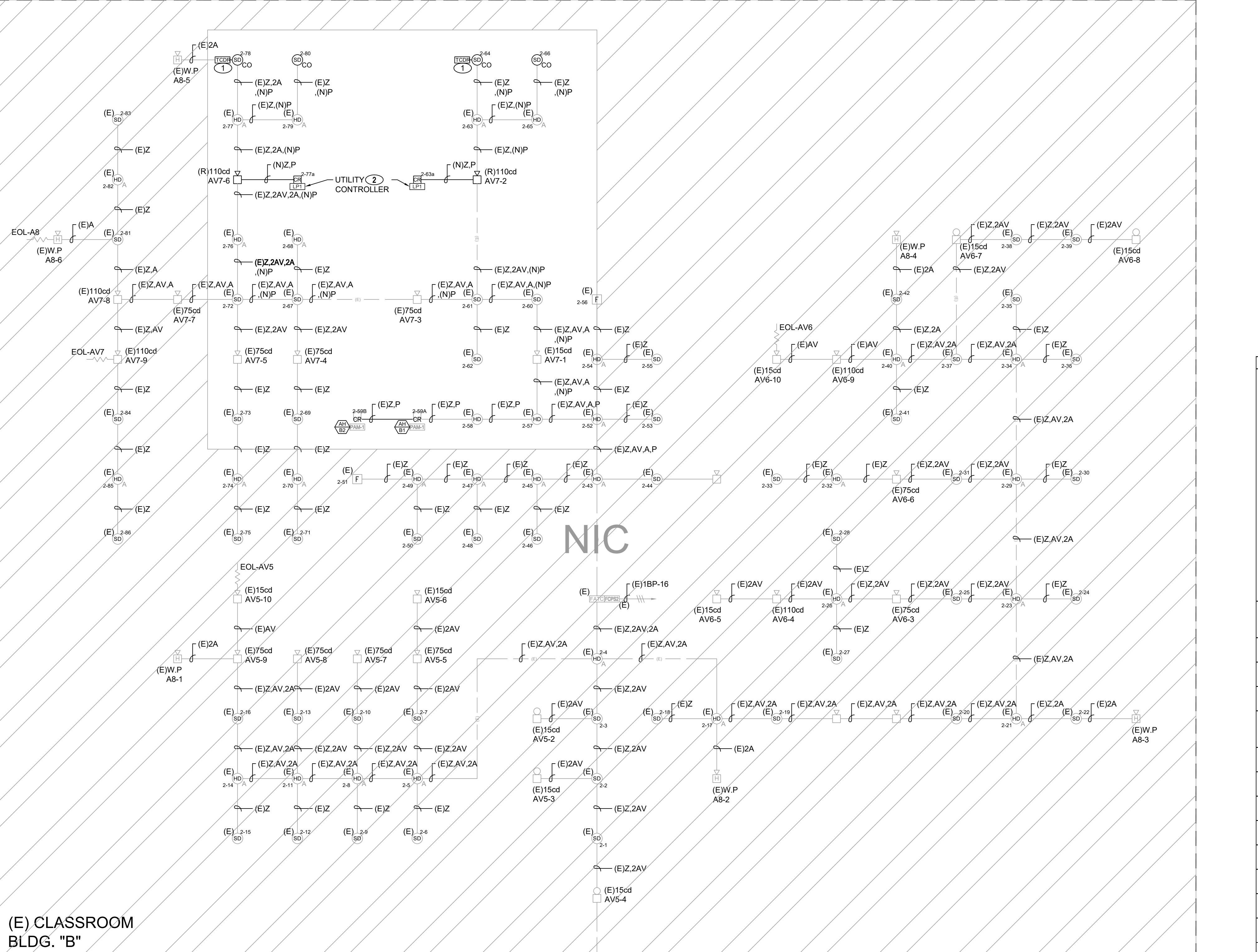
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(E) CLASSROOM
BLDG. "B"

Sequence of Operation	Initiating Device	MANUAL PULL STATION	AREA SMOKE DETECTOR	AREA HEAT DETECTOR	CO DETECTOR	SHORT CIRCUIT	BATTERY FAILURE	GROUND FAULT	120VAC POWER FAILURE
ANNUNCIATE AT FACP / ANN (ALARM)	YES	YES	YES	YES	NO	NO	NO	NO	NO
ANNUNCIATE AT FACP / ANN (TROUBLE)	YES	YES	YES	YES	YES	YES	YES	YES	YES
ACTIVATE RELAY FOR MONITORING (ALARM OR TROUBLE)	YES	YES	YES	YES	YES	YES	YES	YES	YES
ACTIVATE VISUAL ALARM THROUGHOUT BUILDING	YES	YES	YES	YES	NO	NO	NO	NO	NO
ACTIVATE AUDIBLE ALARM (3-pulse, temporal pattern) THROUGHOUT BUILDING	YES	YES	YES	NO	NO	NO	NO	NO	NO
ACTIVATE AUDIBLE ALARM AT DETECTION UNDER BASE (4-pulse temporal pattern) THROUGHOUT BUILDING	NO	NO	NO	YES	NO	NO	NO	NO	NO
SILENCE ALL PA SYSTEM	YES	YES	YES	YES	NO	NO	NO	NO	NO
SCOUND SPRINKLER BELL	NO	NO	NO	NO	NO	NO	NO	NO	NO
SHUT DOWN ALL AIR HANDLING (HVAC) THROUGHOUT BUILDING	NO	YES	YES	YES	NO	NO	NO	NO	NO
DISABLE UTILITY CONTROLLER	NO	YES	YES	YES	NO	NO	NO	NO	NO
OFF-SITE REPORTING	YES	YES	YES	YES	YES	YES	YES	YES	YES

DEVICE	MODEL#	CON	QUANTITY	SUPERVISORY CURRENT		ALARM CURRENT	
				EACH UNIT	SUBTOTAL	EACH UNIT	SUBTOTAL
Fire Alarm Control Panel	EST3	(E)	1	0.045000	0.045000	0.050000	0.050000
Central Processing Unit Module	3-CPU3	(E)	1	0.050000	0.050000	0.150000	0.150000
Network Communication Card	3-RSC32	(E)	1	0.050000	0.050000	0.080000	0.080000
3-RSC32	(E)	1	0.050000	0.050000	0.050000	0.050000	
Booster Power Supply 120V	3-BPS1M***	(E)	1	0.050000	0.050000	0.050000	0.050000
Liquid Crystal Display Module	3-LCD	(E)	1	0.050000	0.050000	0.050000	0.050000
12 switches with 12 Red LED Display/Control Module	3-LCD	(E)	12	0.050000	0.600000	0.160000	0.160000
Single Signature Driver Controller Module	3-SSDC1 *	(E)	1	0.020000	0.020000	0.020000	0.020000
Dual Signature Driver Controller Module	3-SSDC1 *	(E)	3	0.144000	0.432000	0.204000	0.204000
Modem Communicator	3-MODCOM	(E)	1	0.060000	0.060000	0.095000	0.095000
MNEC Serial Communications/LAN interface	MNC-OM1S	(E)	1	0.000000	0.000000	0.000000	0.000000
Single Input Signal Module	SIGA-CC1*	(E)	0	0.00223	0.000000	0.000100	0.000000
Synchronization Output Module	SIGA-CC1*	(E)	12	0.00223	0.002676	0.001200	0.001200
Remote LCD Command Module Annunciator	3-LCDANN	(E)	1	0.170000	0.170000	0.192000	0.192000
Double Action (One Stage) Fire Alarm Station	SIGA-278	(E)	31	0.000250	0.007750	0.004000	0.012400
Intelligent Photoelectric Detector	SIGA-PD	(E)	323	0.00045	0.014535	0.00045	0.014535
Multisensor Smoke and CO Detector	SIGA-OSCD	(N)	94	0.000032	0.003008	0.00045	0.004230
Intelligent Fixed Temp./Rate-of-Rise Heat Detector	SIGA-HRD	(E)	27	0.00045	0.001215	0.00045	0.001215
Multi-Sensor Heat and CO Detector	SIGA-HCD	(N)	3	0.000175	0.000525	0.000400	0.000400
Heat Detector, Fixed Temperature with SIGA-CT1	SIGA-CT1	(E)	287	0.000250	0.004250	0.002400	0.002800
Single Input Module	SIGA-CT1	(E)	8	0.000250	0.002000	0.002000	0.001600
Dual Input Module	SIGA-CT2	(E)	2	0.000396	0.000792	0.001360	0.001360
Control Relay Module	SIGA-CR	(E)	14	0.000100	0.001400	0.000100	0.001400
SUB TOTAL				1.729779		2.117544	

* CURRENT DRAW INCLUDED WITH DEVICE ADDRESSES USED
STAND BY = 24 HRS X SUPERVISORY CURRENT
ALARM TIME = 5 MINUTES (0.0833HRS)
ADDITIONAL SPARE CAPACITY @ 25% OF TOTAL CURRENT
TOTAL BATTERY REQUIRED(Ah)
BATTERIES SUPPLIED 60 Ah

THE FIRE ALARM SIGNALS WILL OPERATE ACCORDING TO NFPA 72 REQUIREMENTS. IF THE FIRE ALARM SYSTEM IS ACTIVATED AND VOICE EVALUATION MESSAGE IS SIMULTANEOUSLY ACTIVATED, THE FIRE ALARM SIGNAL WILL BE EXTINGUISHED, AND VOICE EVALUATION MESSAGE WILL BE ACTIVATED. THE FIRE ALARM SIGNALS WILL BE REINSTATED ONCE THE VOICE EVALUATION MESSAGE IS COMPLETED

Table C1. Maximum Number of Conductors in Electrical Metallic Tubing (EMT)
(Based on Table 1, Chapter 9)

Conductor Size AWG	3/4" Conduit		1" Conduit	
	Maximum Number of Conductors	Maximum Weight (lbs/ft)	Maximum Number of Conductors	Maximum Weight (lbs/ft)
14 and smaller	22	0.802	35	1.210
12	16	0.834	26	1.274

Note: This table is for concentric THHN stranded conductors only. For cables with compact conductors, the dimensions in table 5A shall be used.

Symbol	Circuit Type	Cable Desc.	Page #	Conduit Color	Jacket Stripe	Notes
Z	Signature Analog Addressable Loop	#16 TWP	162MRN	Red	Yellow	Loop Controller (3-SSDC1) to signature devices
AV	Notification Appliance Circuit (NAC) 24dc	#12/14 TWP	122MRN/142MRN	Red	Orange	Output circuit on 3-DCB/4 and modules (CC1, C1C1, C2C2)
P	24V DC Power Distribution	#14 TWP	142MRN	Grey	4 wire detector/Relay/Ann/Door Holder	
N	Notification Appliance Circuit (NAC) 24dc	#12/14 TWP	122MRN/142MRN	Blue	Blue	500' max between modules

Note: All fire alarm cables installed in conduits outdoor and under ground shall be West Penn "Aqua Seal" or equivalent or equivalent. Provide new FATC 12x8x4" NEEMA 1 screw cover box with terminal strips for termination. Locate FATC within building at the point of entry to building or as directed by district.

No wiring splices are permitted, all cables shall be terminated at devices terminals at FATC.

Provide conduct duct sealant water block. FATC-Base duct sealing system at all conduit openings (both ends) at each underground pull boxes (existing new).

Sheet

GENERAL NOTES

1. FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION SHALL BE IN COMPLIANCE WITH CFC 2022, CHAPTER 11 AND 33 & CBC 2022, CHAPTER 33.
2. EXTINGUISHING EQUIPMENT MUST REMAIN IN SERVICE, UNIMPAIRED, AT ALL TIMES DURING CONSTRUCTION, UNLESS UNDER FIRE WATCH.
3. PROVIDE FIRE WATCH PER CFC 901.7 SYSTEM OUT OF SERVICE. REFER TO SPECIFICATION DIV. 10, CFC 2022, CHAPTER 33.
4. AUTOMATIC SHUT-OFF DEVICE REQUIRED WHEN:

 - A. AIR-MOVING SYSTEMS SUPPLYING AIR LESS THAN 2000 CFM TO ENCLOSED SPACES WITHIN BUILDING. CMC 608.1
 - B. ALL OCCUPANCIES SERVED BY THE AIR-HANDLING EQUIPMENT HAVE DIRECT EXIT TO THE EXTERIOR AND THE TRAVEL DISTANCE DOES NOT EXCEED 100 FEET. (CMC 608.1 EXCITION#2)

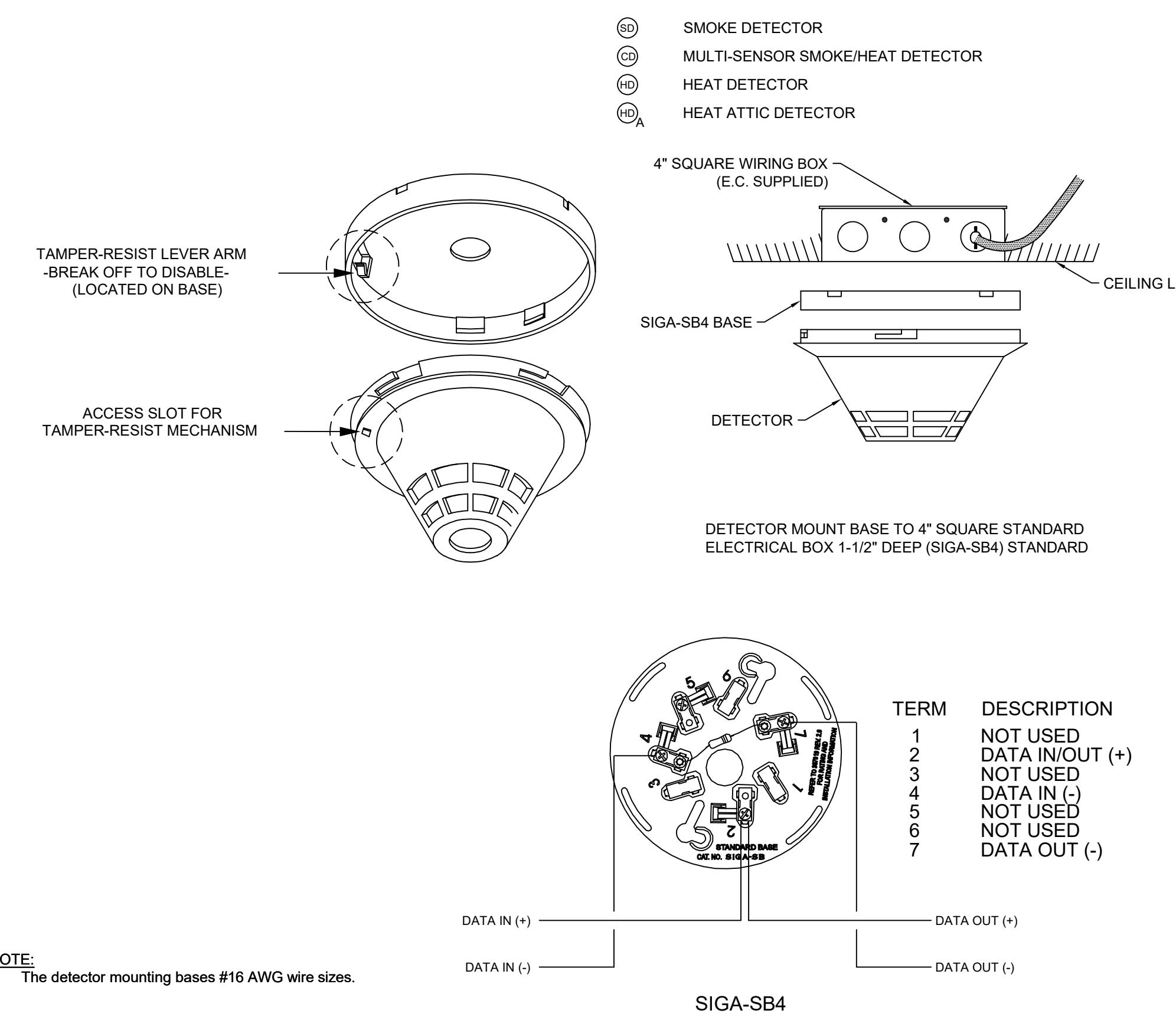
5. ALL EXISTING CONDUITS AND CONDUIT SUPPORTS SHALL BE REMOVED. REFER TO DRAWINGS (A#03-13046-2011) ENGINEER ASSUMES NO RESPONSIBILITY FOR ACCURACY AND CONTRACTOR SHALL VERIFY AND PROVIDE FULLY OPERABLE FIRE ALARM SYSTEM.
6. RE-PROGRAM AND TEST FIRE ALARM DEVICES AT EXISTING FACP PRIOR COMPLETION OF WORK.
7. PROVIDE EXTENSION CABLES AND CONDUIT AS REQUIRED AT ALL FURRED WALLS.
8. EXISTING CONDUIT MAY BE RE-USED FOR NEW WORK, PROVIDED THEY MEET MINIMUM CONDUIT SIZE REQUIREMENTS AND WIRE FILL CAPACITY (40%). OTHERWISE PROVIDE NEW CONDUITS.
9. CONTRACTOR AT HIS OPTION MAY REUSE EXISTING CONDUITS WITHIN THE BUILDING/SITE AND PROVIDE NEW CONDUITS TO EXTEND TO NEW DEVICE LOCATIONS AS NECESSARY.

REFERENCE NOTES

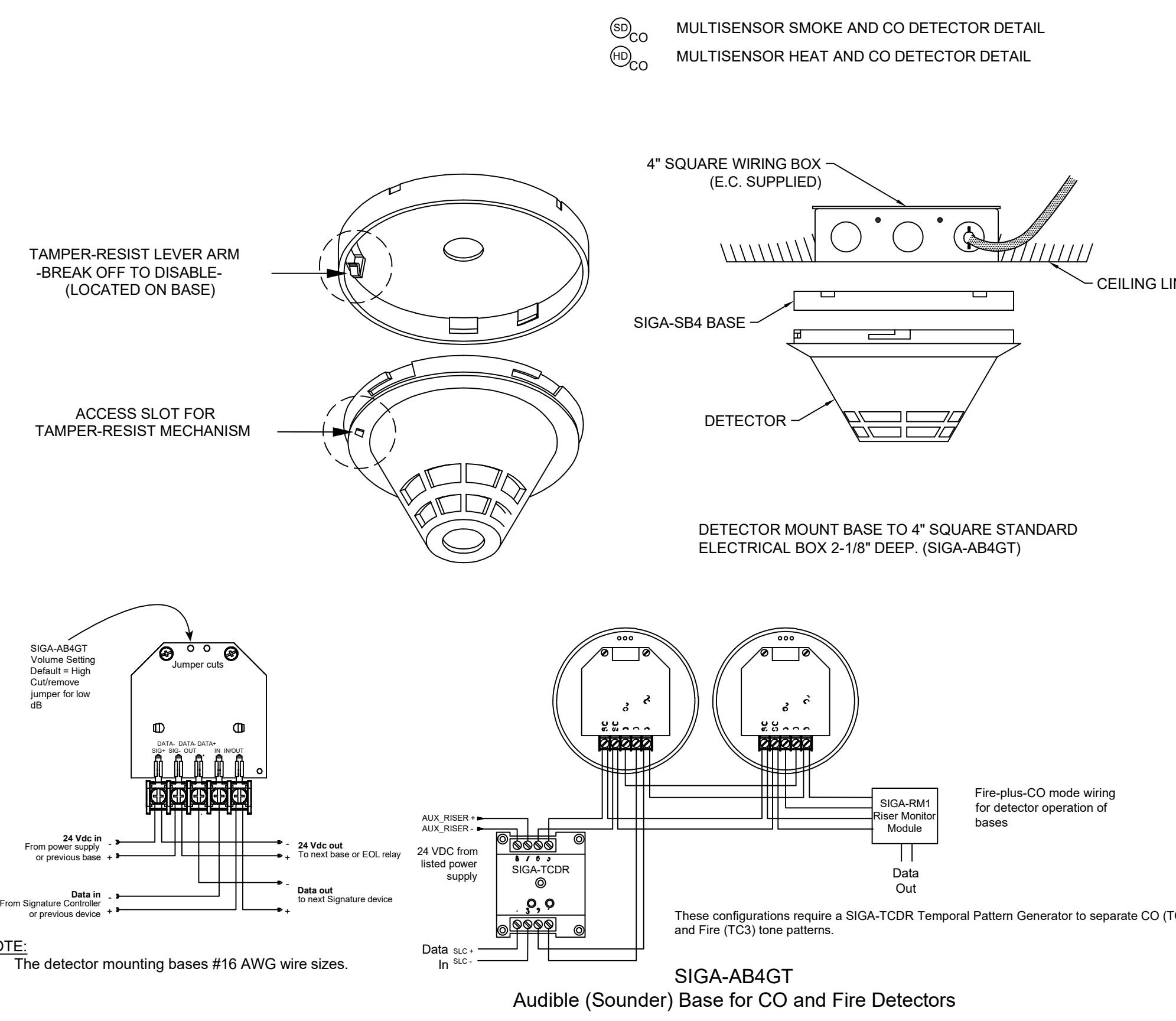
1. REPLACE EXISTING SMOKE DETECTOR WITH NEW MULTI-SENSOR SMOKE AND CO DETECTOR (SIGA-OSCD) INCLUDING AUDIBLE (BEEP/ALARM), VISUAL (BRIGHT/ALARM) AND TEMPORAL PATTERN (FLASHING) FEATURES. PROVIDE NEW SMOKE DETECTOR AS REQUIRED. PROVIDE NEW CONDUIT AS REQUIRED TO ACCOMMODATE NEW DEVICES (SEE WIRING DETAIL ON SHEET EX-1 AND RE-PROGRAM AT EXISTING FACP (A#03-13046).
2. PROVIDE CONTROL RELAY MODULE (SIGA-CR) FOR UTILITY CONTROLLER. FIELD VERIFY LOCATION, PROVIDE NEW CONDUIT AND FIRE ALARM SIGNAL IS CLEARED AND MANUALLY OPERATING KEY AT UTILITY CONTROLLER. REFER TO SPECIFICATION DIV. 11 53 33.

SYMBOL	CON	MODEL	MANUFACTURER	DESCRIPTION		CSFM #	INSTALLATION/MOUNTING
				1	2		
(E)		EST3	EST	Fire Alarm Control Panel		7165-1657-0186	Wallbox provided
(E)		3-CPU3	EST	Central Processing Unit Module		7165-1657-0186	Mount on 2-Leg most LRM spaces
(E)		3-RS485B	EST	Network Communication Card		7165-1657-0186	Back of 3-CPU3
(E)		3-RSC32	EST	Communication Card		7165-1657-0186	Back of 3-CPU3
(E)		3-PPS1M	EST	Primary Power Supply 120V		7165-1657-0186	Mount on 1 LRM space
(E)		3-BPS1M**	EST	Booster Power Supply 120V		7165-1657-0186	Mount on 1 LRM space
(E)		3-LCD	EST	Liquid Crystal Display Module		7165-1657-0186	Mount on 4 LRM space
(E)		3-12SR	EST	12 switches with 12 Red LED Display/Control Module		7165-1657-0186	Mount on 1 LRM

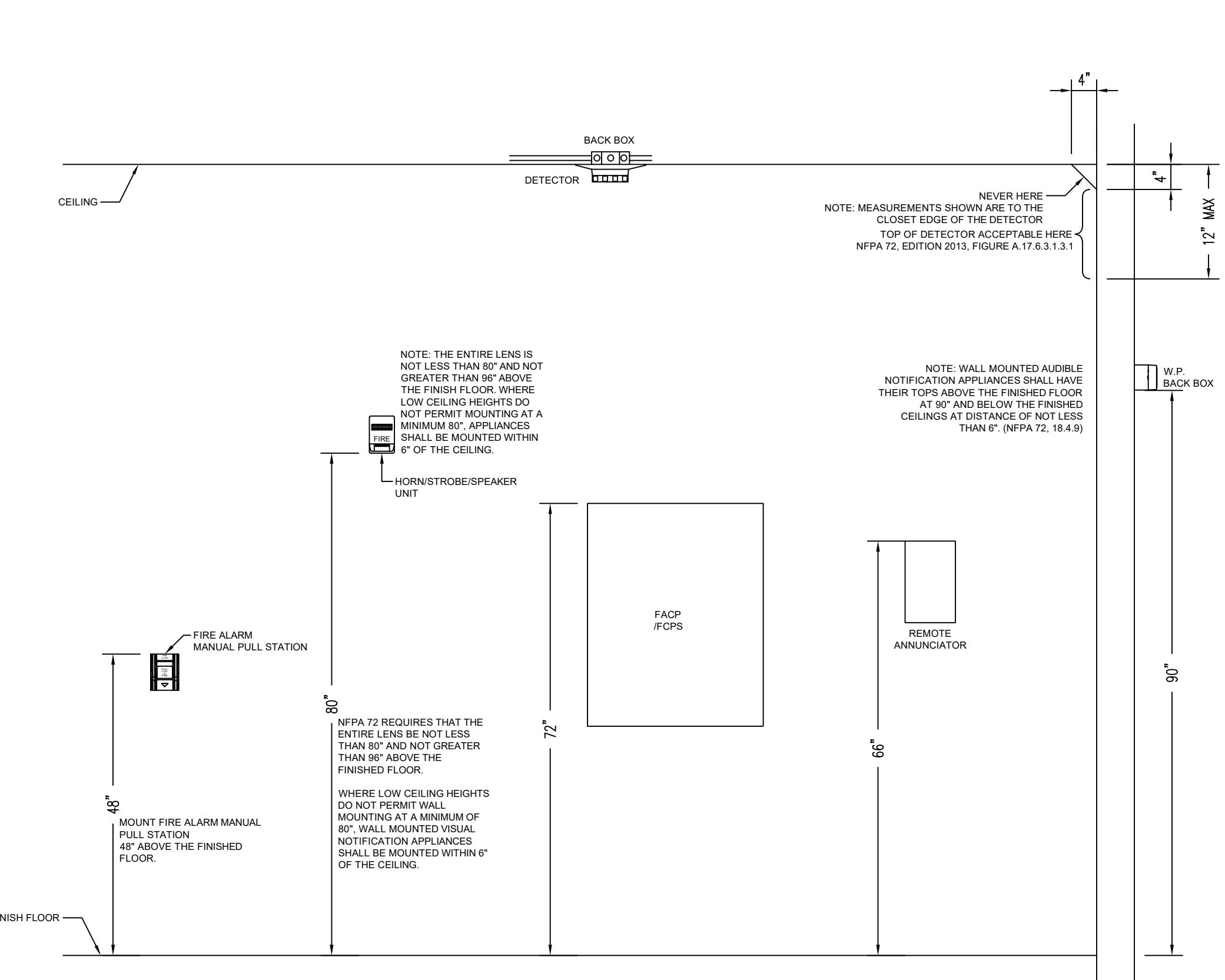
REV	DESCRIPTION	DATE
DWG_V1	04/25/25	
DWG_V2	07/15/25	
DWG_V3	10/07/25	



SMOKE/HEAT DETECTOR DETAIL SCALE N.T.S. 1



MULTISENSOR SMOKE AND CO DETECTOR DETAIL SCALE N.T.S. 2

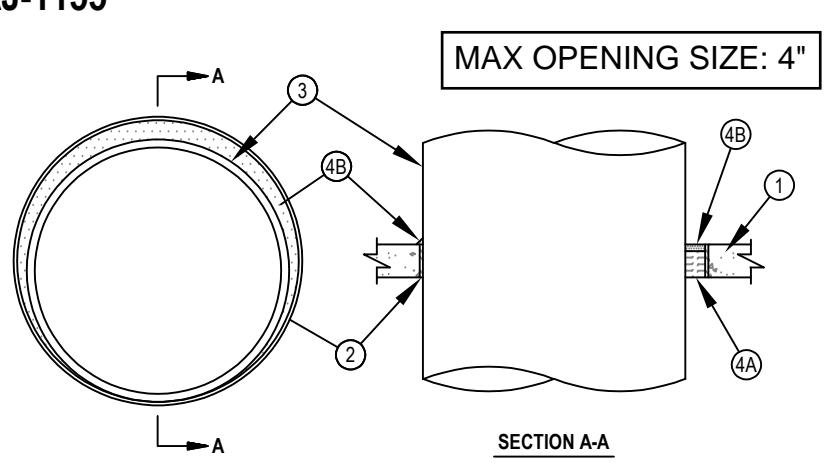


DEVICE ELEVATIONS SCALE N.T.S. 3



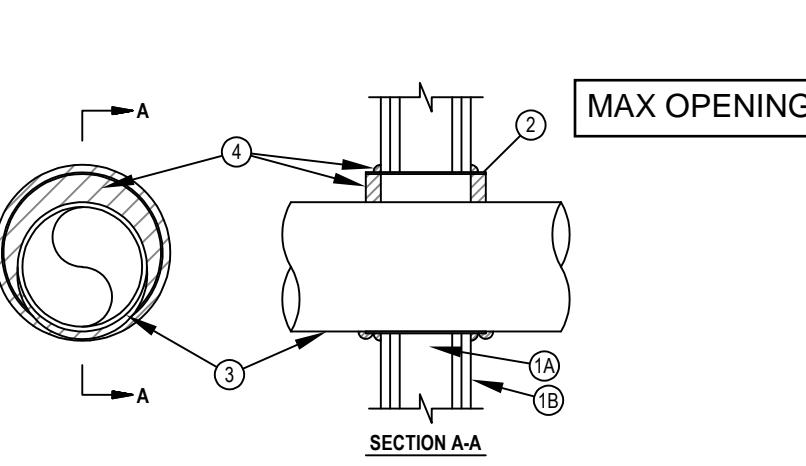
System No. C-AJ-1155

ANSI/UL1479 (ASTM E814)
F Rating — 2 and 3 Hr (See Item 3)
T Rating — 0 Hr
L Rating At Ambient — Less than 1 CFM/Sq ft
L Rating At 400 F — 4 CFM/Sq ft
W Rating — Class 1 (See Item 4)



System No. W-L-1465

ANSI/UL1479 (ASTM E814)
F Rating — 1 or 2 Hr (See Item 1)
T Rating — 0 and 1/4 Hr (See Item 1)
L Rating At Ambient — Less Than 1 CFM/Sq Ft
L Rating At 400 F — Less Than 1 CFM/Sq Ft

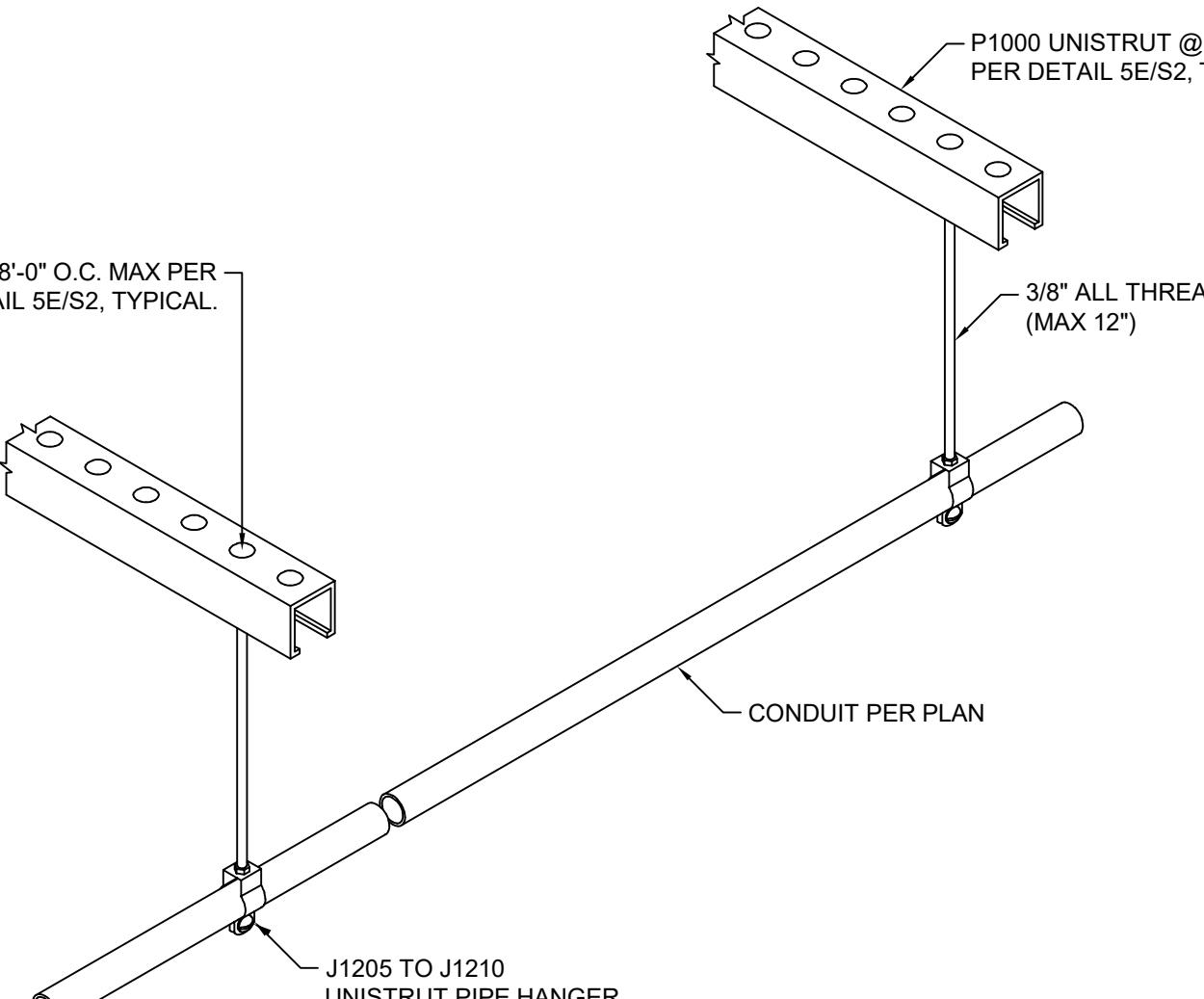


X-RAY ALL MASONRY/CONCRETE WALL/CEILING PENETRATIONS PRIOR TO WORK. USE SLEEVES OR CORE DRILLING FOR PENETRATIONS (LOCATIONS TO BE DETERMINED BY THE PROJECT TEAM). EXISTING OBSTRUCTIONS, CONDITIONS, EXISTING OBSTRUCTIONS, AND FIELD CONDITIONS, AND COORDINATED WITH THE DISTRICT). NO CONDUITS THROUGH STRUCTURAL SLABS.

HOLES IN WALL AND FLOOR SHALL BE DONE BY CORE DRILLING ONLY. DO NOT DAMAGE REINFORCING STEEL BAR IN WALL LOCATE BY NON-DESTRUCTIVE MEANS PRIOR TO CORING.

ALL WALL AND FLOOR PENETRATIONS MADE UNDER THIS PROJECT SHALL BE SEALED PER THE APPLICABLE DETAIL WHETHER THE WALL OR FLOOR IS KNOWN TO BE FIRE RATED OR NOT

CONCRETE/MASONRY WALL/FLOOR PENETRATION DETAIL SCALE N.T.S. 4

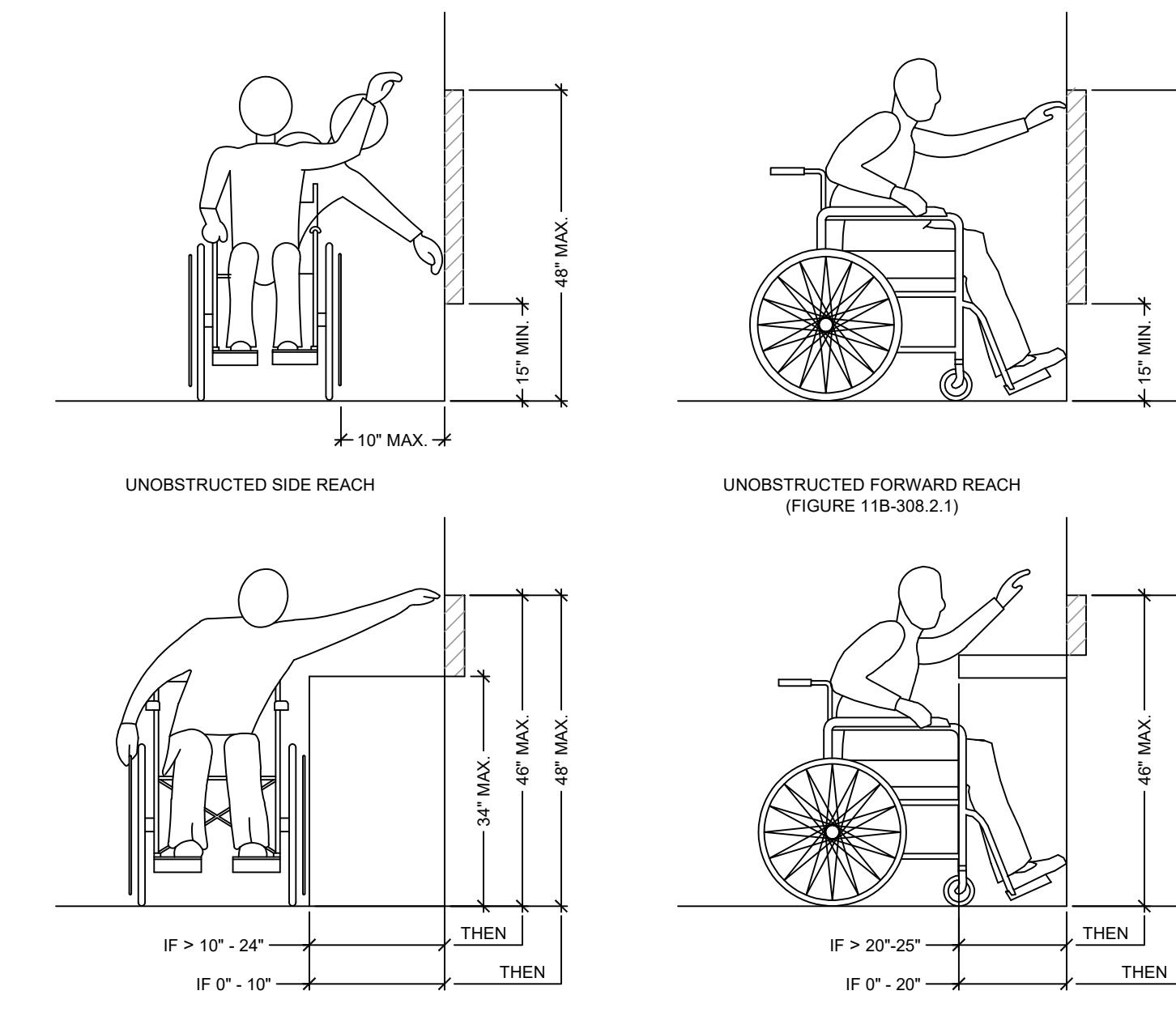


USE TABLE 358.30, 2022 NEC FOR MT CONDUIT SECURING AND SUPPORTING

NOTE: 1. THIS SYSTEM IS DESIGNED FOR SINGLE CONDUITS 3/4" C AND 1" C
2. PROVIDE 12" SEPARATION FROM EXISTING ANCHOR(S), IF ANY.

CEILING SINGLE CONDUIT HANGER DETAIL SCALE N.T.S. 7

GYPSUM WALL PENETRATION DETAIL SCALE N.T.S. 5



NOTE:
1. CBC2022, 11B-308.1.1 ELECTRICAL SWITCHES, CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF A ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES OR COOLING, HEATING AND VENTILATING EQUIPMENT, SHALL COMPLY WITH SECTION 11B-308 EXCEPT THE LOW REACH SHALL BE MEASURED TO THE CENTER OF THE OUTLET BOX AND THE HIGH REACH SHALL BE MEASURED TO THE TOP OF THE OUTLET BOX.
2. CBC2022, 11B-309.2.1 ELECTRICAL RECEPTACLE OUTLETS, APPLIANCES OR COOLING, HEATING AND VENTILATING EQUIPMENT, RECEPTACLE OUTLETS OR BRANCH CIRCUITS OF 30 AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES SHALL COMPLY WITH SECTION 11B-308 EXCEPT THE LOW REACH SHALL BE MEASURED TO THE BOTTOM OF THE OUTLET BOX AND THE HIGH REACH SHALL BE MEASURED TO THE TOP OF THE OUTLET BOX.
3. CBC2022, 11B-309.4 OPERATION: OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST.
4. THE OPERABLE PARTS SHALL NOT REQUIRE THE USE OF BOTH HANDS MAXIMUM.
5. OPERABLE PARTS CANNOT BE LOCATED WHERE A PERSON USING A WHEELCHAIR WOULD BE FORCED TO REACH OVER AN OBSTRUCTION.
6. PROVIDE FRONT AND PARALLEL APPROACH AT NEWLY INSTALLED FIRE ALARM INITIATING DEVICE.

MOUNTING HEIGHT OVER OBSTRUCTION SCALE N.T.S. 9

ELECTRICAL DETAILS



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POMONA, CALIFORNIA 91766

DATE 10/07/2025
DRAWING A# 03-125098
FILE NO. 19-H200
SHEET

REV	DESCRIPTION	DATE
DWG_V1	04/25/25	
DWG_V2	07/15/25	
DWG_V3	10/07/25	



multidisciplinary
MDC engineers, INC
Consulting Engineers 5101 E La Palma Ave., Suite 205
Anaheim, CA 92805 Tel: (714) 564-2944
Fax: (714) 564-6463

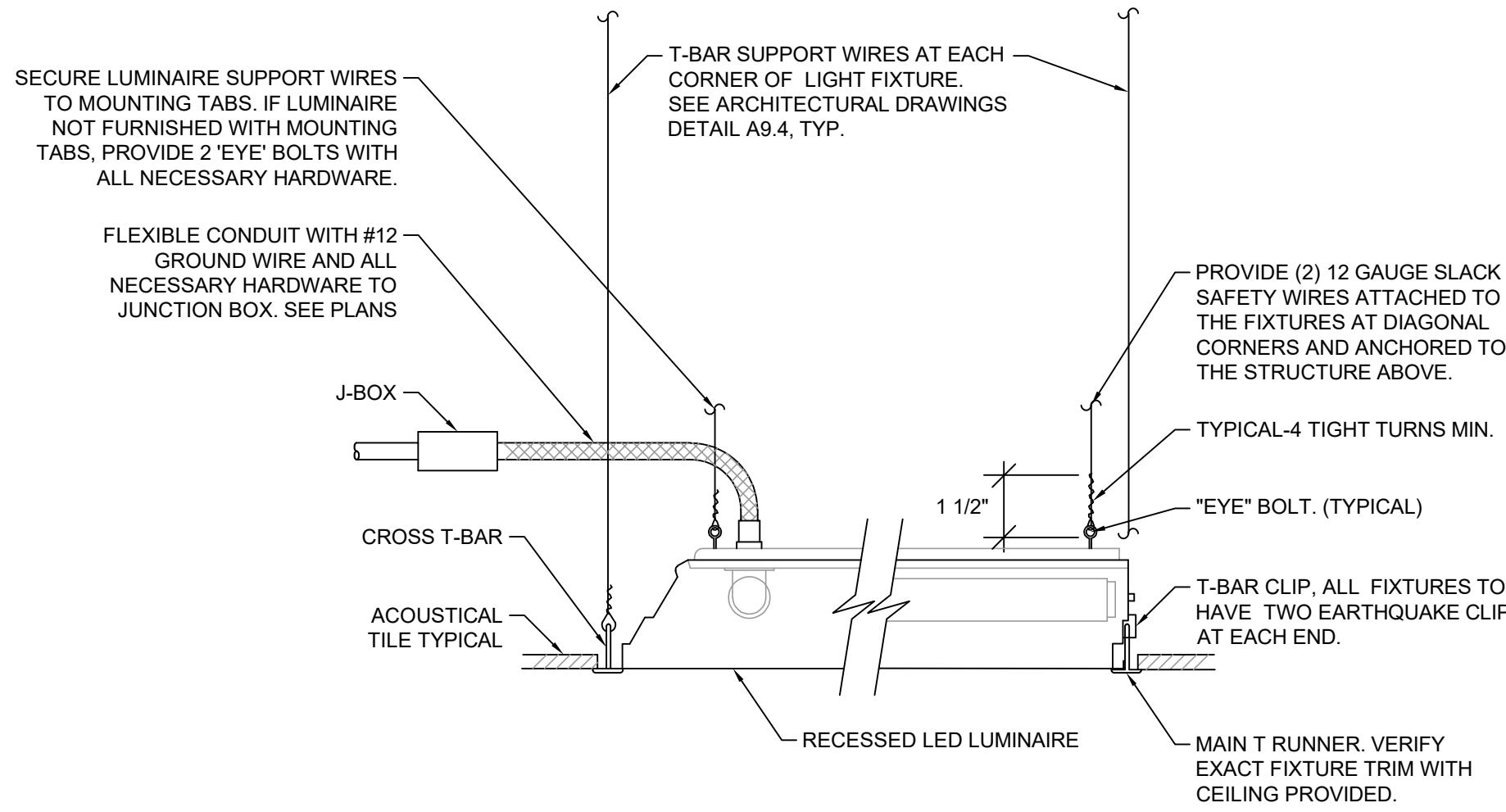


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ELECTRICAL
DETAILS

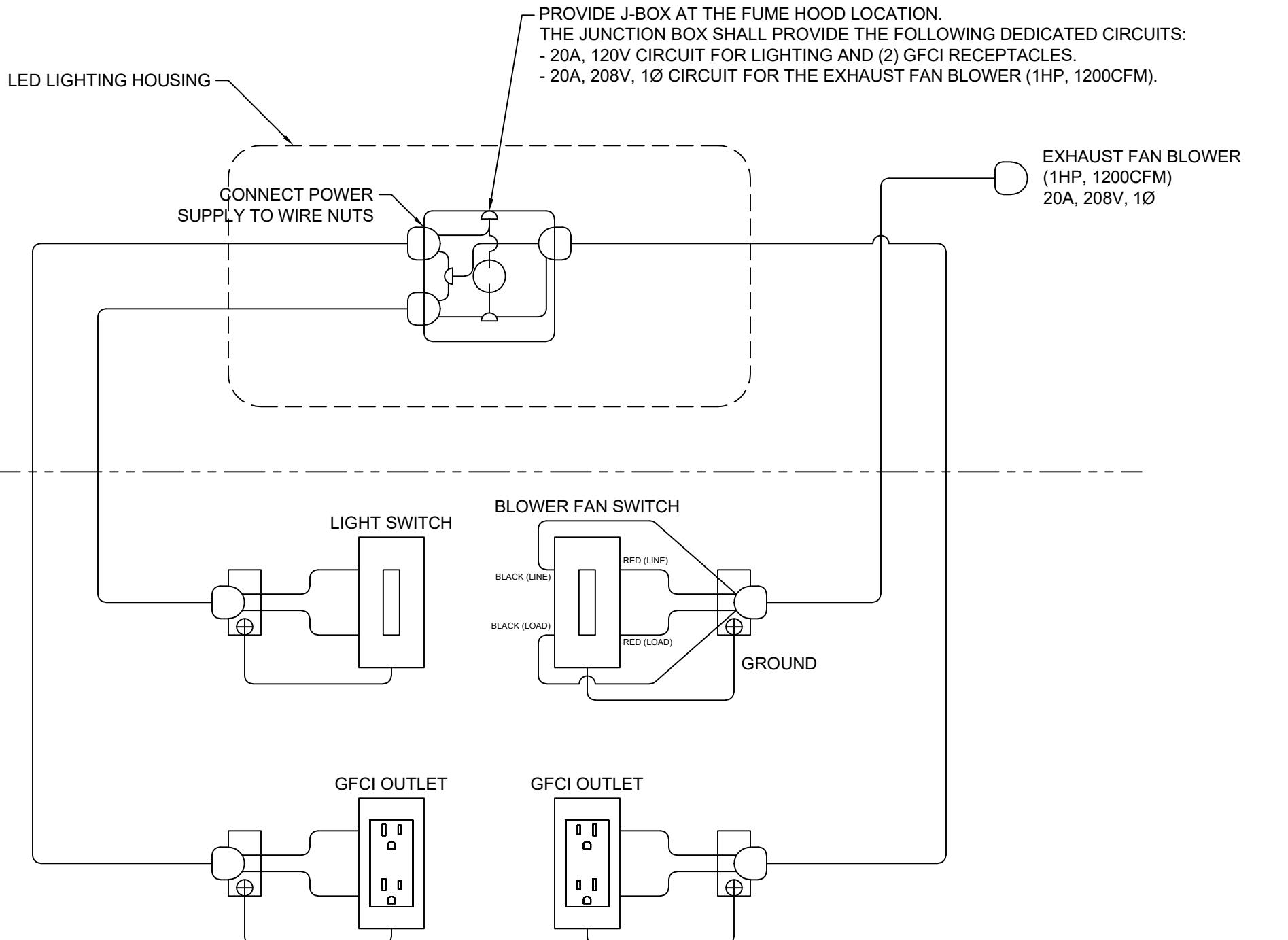
ELECTRICAL PANEL
SQUARE-D: NQ 100A/225A TYPE
1
PRODUCT MAX WEIGHT: 200 Lbs
REFER TO STRUCTURAL
MOUNTING DETAIL.



RECESSED LED LIGHT FIXTURE-CEILING MOUNTING

SCALE
N.T.S.

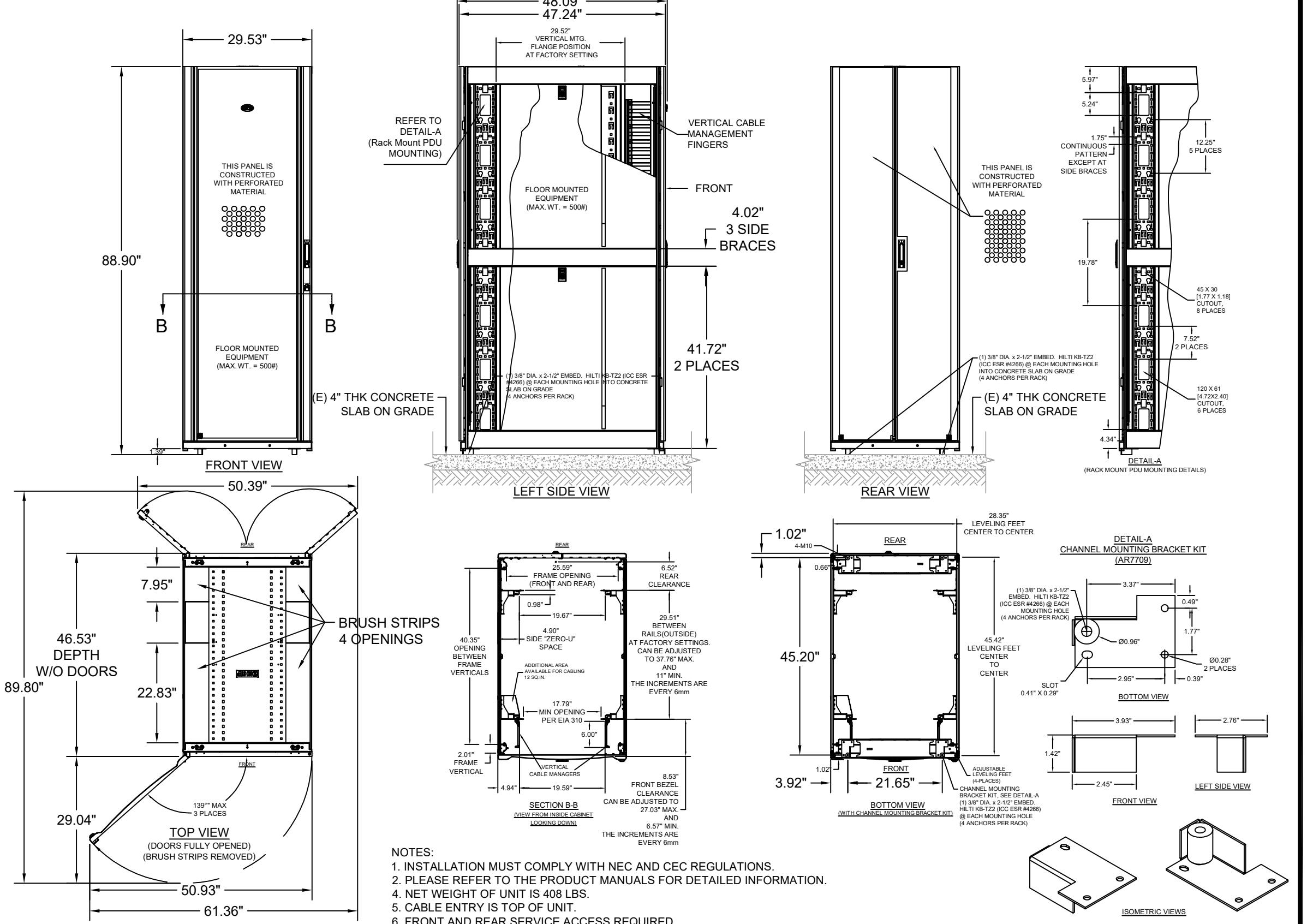
1



FUME HOOD WIRING DIAGRAM

SCALE
N.T.S.

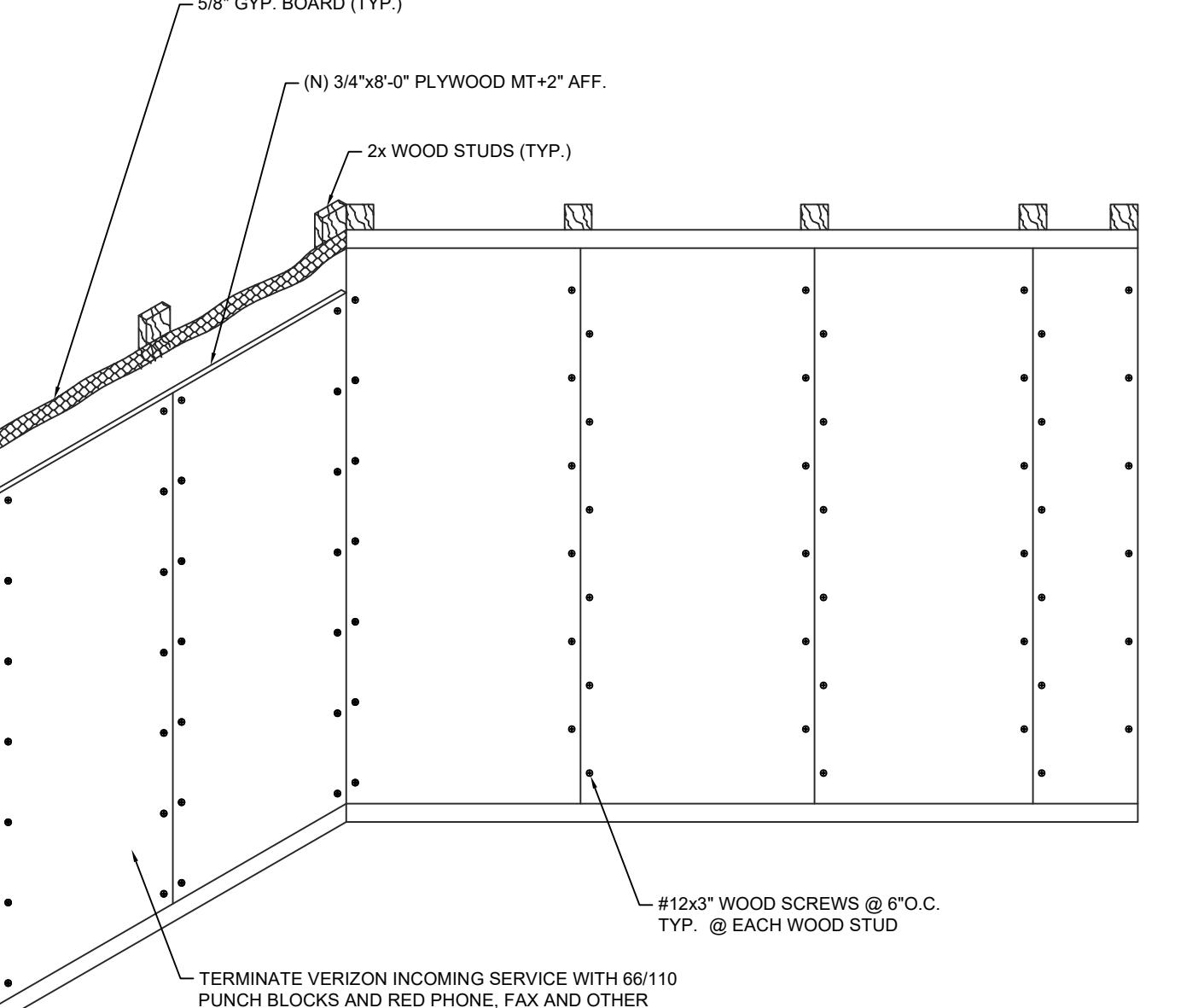
2



AV & IDF EQUIPMENT RACK ANCHORAGE DETAIL

SCALE
N.T.S.

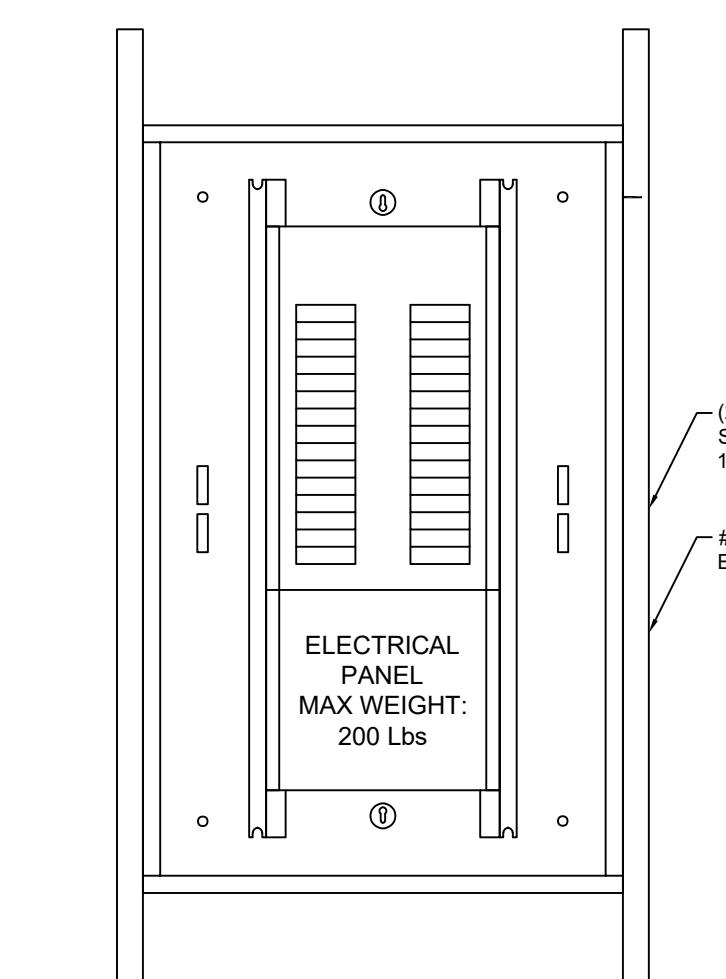
4



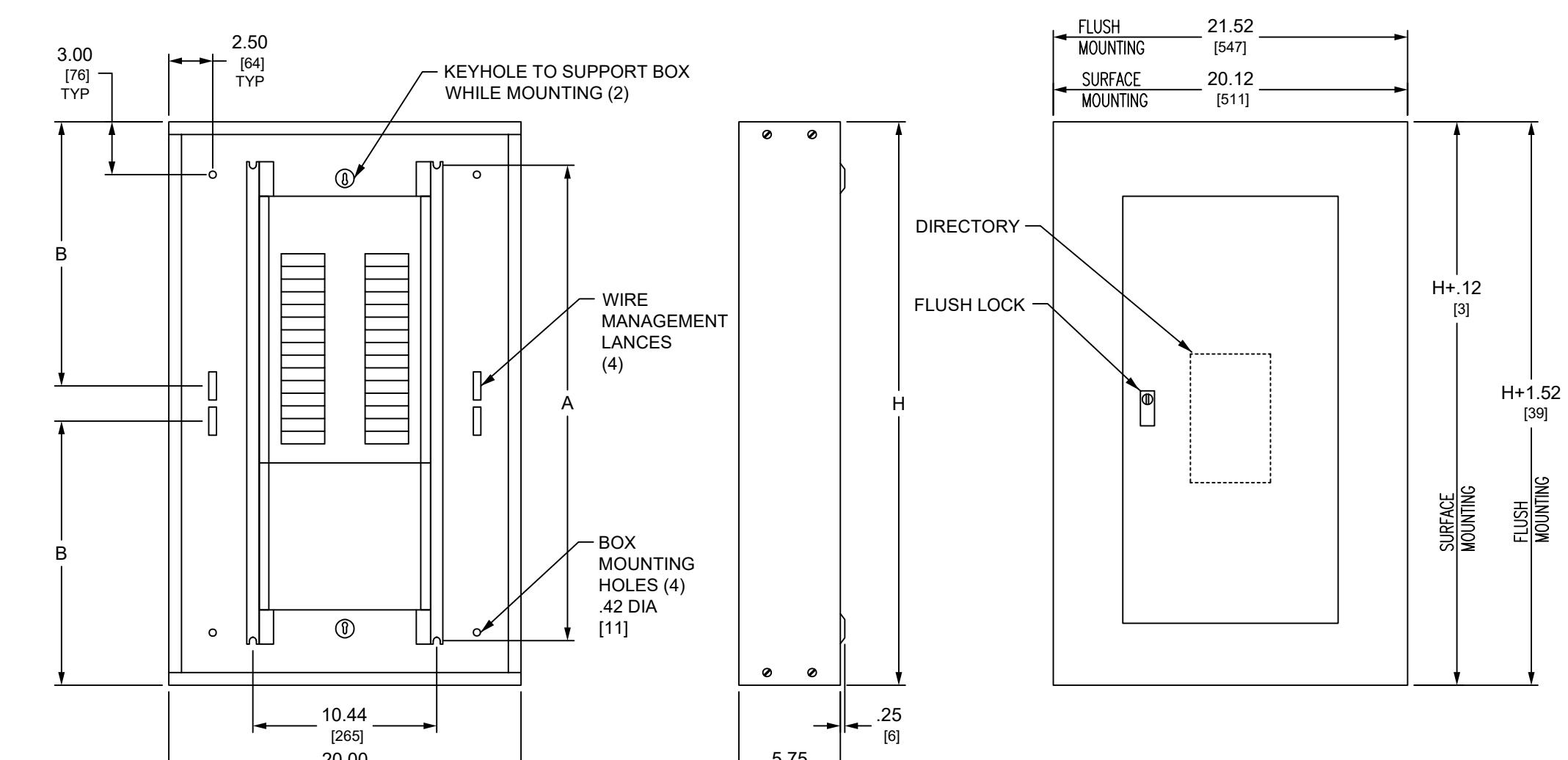
(NEW) BACKBOARD INSTALLATION

SCALE
N.T.S.

5

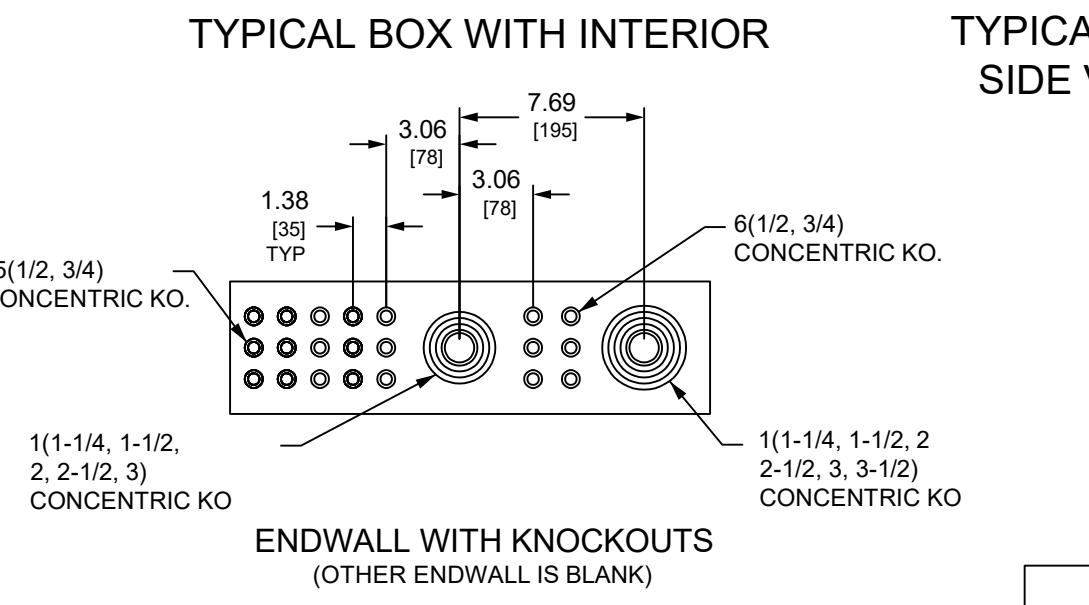


NOTES:
1. REFER TO TYPICAL WALL OPENING DETAILS IF PANEL BOARD IS WIDER THAN ONE STUD BAY WIDTH.
2. PROVIDE PATCHING AND FINISHES OF WALL AFTER NEW PANEL INSTALLATION.



TYPICAL FRONT

TYPICAL BOX SIDE VIEW

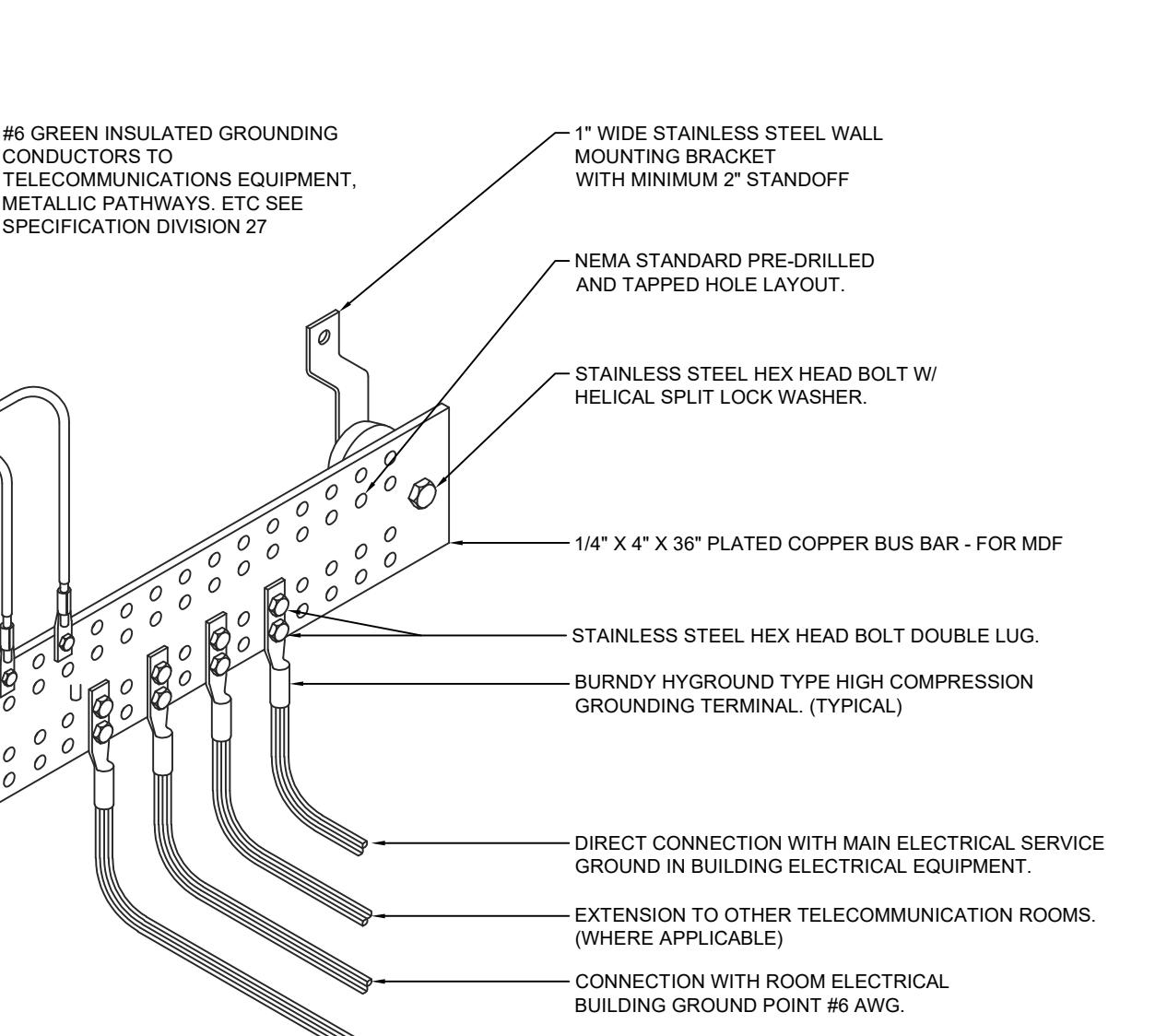


TYPICAL BOX WITH INTERIOR

TYPICAL MOUNTING OF
QO, QOB BREAKERS

MAXIMUM MAIN LUGS AMPERE RATING	MAXIMUM NUMBER OF CIRCUITS	H		A		B	
		IN	MM	IN	MM	IN	MM
100A	18	26.00	660	21.00	533	15.00	379
	30	32.00	813	27.00	698	15.00	381
225A	42 & 54	38.00	965	33.00	838	15.00	381
100A WITH SUB FEED LUGS OR FEED THRU LUGS	18	26.00	660	21.00	533	15.00	381
	30	32.00	813	27.00	686	15.00	381
225A WITH SUB FEED LUGS	42 & 54	38.00	965	33.00	838	15.00	381
	72	44.00	1118	39.00	991	15.00	381
225A WITH FEED THRU LUGS	54	50.00	1270	45.00	1143	15.00	381
	84	56.00	1422	51.00	1295	15.00	381
225A WITH SUB FEED BREAKER	30 & 42	38.00	965	33.00	838	15.00	381
	42 & 54	50.00	1118	39.00	991	15.00	381
	72	56.00	1270	45.00	1143	15.00	381
	84	62.00	1422	51.00	1295	15.00	381

FOR TYPE 3R APPLICATIONS USE IN CONJUNCTION WITH PBA711
NQ PANELBOARDS MEET THE APPLICABLE REQUIREMENTS OF UL LISTED.
BOX: CODE GAUGE GALVANIZED STEEL. ONE ENDWALL IS BLANK,
THE OTHER HAS KNOCKOUTS.
FRONT: MONO-FLAT CONSTRUCTION WITH CONCEALED TRIM SCREWS AND
DOOR HINGES. ANSI-49 GRAY BAKED ENAMEL FINISH
ELECTRODEPOSITED OVER CLEARED PHOSPHATIZED STEEL.
LOCK: FLUSH LOCK WITH BRUSHED STAINLESS STEEL SCUTCHON.
NSR-251 KEY.



TELECOMMUNICATIONS(MAIN) GROUNDING BUS BAR- 'TMGB'

SCALE
N.T.S.

6

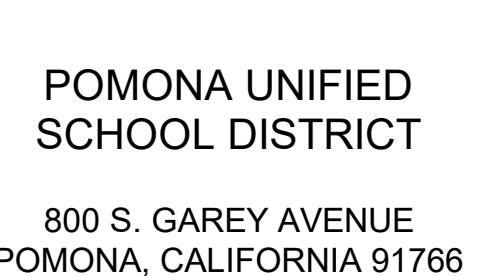
DATE 10/07/2025
DRAWING A# 03-125098
FILE NO. 19-H20
SHEET

E4.2

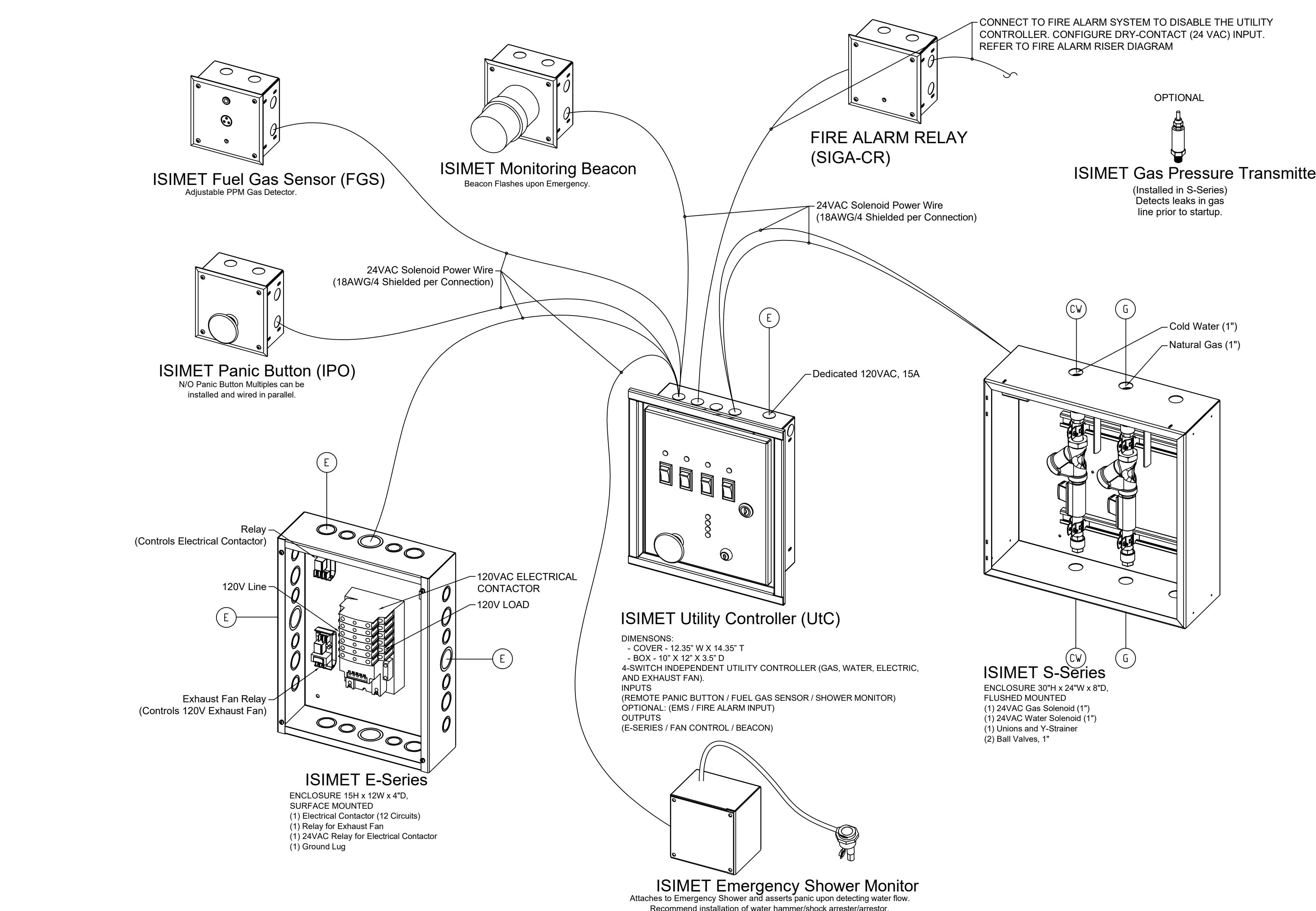


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AT
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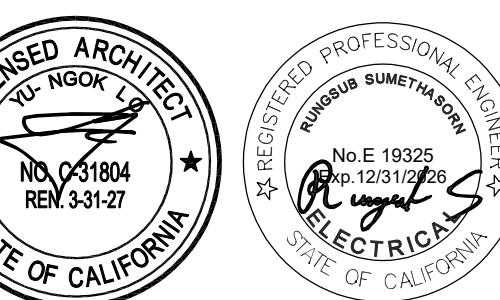
ELECTRICAL DETAILS



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DWG_V2		
DWG_V3		10/07/25



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