RUSSO-McENTEE ACADEMY- HVAC UPGRADES

2851 GAY AVE., SAN JOSE, CA 95127

ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

DSA FILE NUMBER 43-04
DSA APPLICATION NUMBER 01-117267
OPSC TRACKING NUMBER 69369-80

GENERAL NOTES

PRE-BID SITE VISIT

CONTRACTOR SHALL VISIT THE PROJECT AREA IN ORDER TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND THE REQUIREMENTS OF THE PROJECT. THE CONTRACTOR MAY CONTACT THE ARCHITECT DURING THE BIDDING PHASE REGARDING CLARIFICATIONS AND PROJECT REQUIREMENTS.

SAFETY

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

DAMAGE TO STRUCTURE OR SYSTEMS TO REMAIN

CONTRACTOR SHALL REIMBURSE THE OWNER FOR REPAIR AND REPLACEMENT, INCLUDING ARCHITECT'S FEES, FOR ANY DAMAGE CAUSED TO STRUCTURES, LANDSCAPE, SITE WORK, OR EXISTING SYSTEMS TO REMAIN, AS THE RESULT OF CONSTRUCTION OPERATIONS.

EXISTING CONDITIONS

ALL EXISTING CONDITIONS ARE SHOWN BASED ON THE BEST INFORMATION AVAILABLE AT THE TIME, BUT WITHOUT GUARANTEE OF ACCURACY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, AND BUILDING DATA AT THE JOB SITE. ANY DISCREPANCIES REQUIRING MODIFICATION TO THE CONSTRUCTION DOCUMENTS SHALL BE REPORTED TO THE ARCHITECT IMMEDIATELY. NO MODIFICATIONS SHALL BE MADE BY THE CONTRACTOR WITHOUT PRIOR APPROVAL FROM THE ARCHITECT.

CONTRACTOR'S EQUIPMENT

COORDINATE WITH OWNER'S REPRESENTATIVE FOR APPROVED LOCATION OF JOB SITE ACCESS, PARKING, AND LOCATION OF CONTRACTOR'S EQUIPMENT AND MATERIAL STORAGE AREA. SEE SITE PLAN FOR ADDITIONAL NOTES.

UTILITY SHUT-DOWNS AND CONNECTIONS

ALL REQUIRED UTILITY SHUT DOWNS SHALL HAVE PRIOR APPROVAL FROM THE OWNER'S REPRESENTATIVE. REQUEST SHALL BE SUBMITTED WITH ADEQUATE ADVANCE NOTICE PER PROJECT REQUIREMENTS.

ASBESTOS AND ASBESTOS PRODUCTS

THE OWNER/OPERATOR AND CONTRACTOR SHALL BE AWARE THAT BUILDINGS CONSTRUCTED PRIOR TO 1978 (OR THERE ABOUT) POSSIBILITY CONTAIN ASBESTOS IN SOME EXISTING CONSTRUCTION MATERIALS, AND WILL LIKELY BE ENCOUNTERED DURING ALTERATIONS OR REMODELING.

UNDER CALIFORNIA TITLE 8, THE OWNER AND CONTRACTOR BOTH HAVE RESPONSIBILITIES TO DETERMINE THE EXISTENCE OF ASBESTOS CONTAINING MATERIALS IN AREAS TO BE ALTERED OR REMODELED PRIOR TO COMMENCEMENT OF WORK AND TO TAKE APPROPRIATE MEASURES TO PROTECT PERSONNEL. CAL-OSHA HAS JURISDICTION OVER ASBESTOS RELATED WORK. ASBESTOS RELATED WORK SHALL BE DONE IN ACCORDANCE WITH CALIFORNIA GENERAL INDUSTRIAL SAFETY ORDERS, TITLE 8, SECTION 341.6 THROUGH 341.14. ASBESTOS IN THE WORK ENVIRONMENT IS REGULATED BY TITLE 8, SECTION 5208.

THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT AND DISTRICT REGULATION 11-2-401.3 REQUIRES EVERY RENOVATION INVOLVING THE REMOVAL OF 100 SQ.FT., LN.FT, OR GREATER OF REGULATED ASBESTOS CONTAINING MATERIAL, AND FOR EVERY DEMOLITION (EVEN WHEN NO ASBESTOS IS PRESENT), A NOTIFICATION MUST BE SENT TO THE BAAQMD AT LEAST 10 WORKING DAYS PRIOR TO COMMENCEMENT OF DEMOLITION / RENOVATION.

ALL BUILDING MATERIALS MUST BE ASBESTOS FREE.

THESE DOCUMENTS DO NOT ADDRESS CONTAINMENT FOR EXISTING AREAS OF ASBESTOS WHICH MAY BE DISCOVERED DURING CONSTRUCTION. THE OWNER'S ABATEMENT SUBCONTRACTOR IS SOLELY RESPONSIBLE FOR THE DETECTION, REMOVAL, AND THE DISPOSAL OF ANY EXISTING ASBESTOS MATERIAL. ARCHITECTURAL AND ENGINEERING FEES FOR ADDITIONAL DESIGN EFFORT TO OBTAIN STATE APPROVALS, AS WELL AS THE COST OF ANY REPAIRS, FOR DAMAGE CAUSED OR REPLACEMENT OF EXISTING SYSTEMS TO REMAIN, DUE TO WORK PERFORMED BY THE ASBESTOS ABATEMENT SUBCONTRACTOR, SHALL BE THE RESPONSIBILITY OF SAID SUBCONTRACTOR.

CONSTRUCTION SCHEDULING

CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION OPERATIONS WITH OWNER'S REPRESENTATIVE PRIOR TO SCHEDULING AND START OF THE WORK. CONTRACTOR SHALL PROVIDE PROTECTION TO ALL EXISTING SPACES AND SYSTEMS WHICH ARE IN USE, ADJOINING THE PROJECT, AND NOT PART OF THE PROJECT.

INTERIOR FINISHES

INTERIOR FINISHES AND ALL WALL COVERING MATERIAL SHALL CONFORM TO CCR TITLE 24, PART 2, CHAPTER 8.

TITLE 24 COMPLIANCE

THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS (2013 CBC). SHOULD ANY EXISTING CONDITIONS BE DISCOVERED NOT COVERED BY THE CONTRACT DOCUMENTS WHERE IN THE FINISHED WORK DOES NOT COMPLY WITH 2013 CBC, A CONSTRUCTION CHANGE DOCUMENT OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK, SHALL BE SUBMITTED TO AND APPROVED BY THE DSA BEFORE PROCEEDING WITH THE WORK.

ADMINISTRATIVE REQUIREMENTS FROM PART 1., TITLE 24, C.C.R.

- ADDENDA AND CHANGES AS PER SECTION 4-338
- INSPECTOR APPROVED BY DSA
- INSPECTOR AND CONTINUOUS INSPECTION OF WORK PER SECTION 4-333 (B) AND 4-342
- TESTS AND TESTING LABORATORY PER SECTION 4-335 (OWNER SHALL PAY THE TESTING LABORATORY)
- SPECIAL INSPECTION PER SECTION 4-333 (C)
- CONTRACTOR SHALL SUBMIT VERIFIED REPORT OR SECTION 4-336 & 4-343 (C)
- ADMINISTRATION OR CONSTRUCTION PER PART 1, TITLE 24, C.C.R.
  - DUTIES OF ARCHITECT, STRUCTURAL ENGINEER, OR PROFESSIONAL ENGINEER PER SECTION 4-333 (A) AND 4-341
  - DUTIES OF CONTRACTOR PER SECTION 4-343
  - VERIFIED REPORTS PER SECTION 4-343 AND 4-336
- A COPY OF PARTS 1 TO 5 OF TITLE 24 SHALL BE KEPT AND AVAILABLE IN THE FIELD DURING CONSTRUCTION
- DSA SHALL BE NOTIFIED AT START OF CONSTRUCTION AND PRIOR TO PLACEMENT OF CONCRETE PER SECTION 4-331
- SUPERVISION BY DSA PER SECTION 4-334
- DSA IS NOT SUBJECT TO ARBITRATION

PIPES, DUCTS AND CONDUIT - SUPPORT AND BRACING

PIPES, DUCTS, AND CONDUITS SHALL BE SUPPORTED AND BRACED PER THE SMACNA "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS", OPA 0003 SUPERSTRUT, OPA 0114 B-LINE, OPA 0215 NUSIG, OR OPA 0485 ISAT SEISMIC RESTRAINT SYSTEMS FOR PIPES AND CONDUITS.

DRILLED-IN EXPANSION ANCHORS

WHEN INSTALLING DRILLED-IN ANCHORS AND/OR POWDER DRIVEN PINS IN EXISTING NON-PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. WHEN INSTALLING THEM INTO EXISTING PRESTRESSED CONCRETE (PRE- OR POST-TENSIONED), LOCATE THE PRESTRESSED TENDONS BY USING A NON-DESTRUCTIVE METHOD PRIOR TO INSTALLATION. EXERCISE EXTREME CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE TENDONS DURING INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHOR AND/OR PIN.

GENERAL NOTES

ADMINISTRATIVE REQUIREMENTS

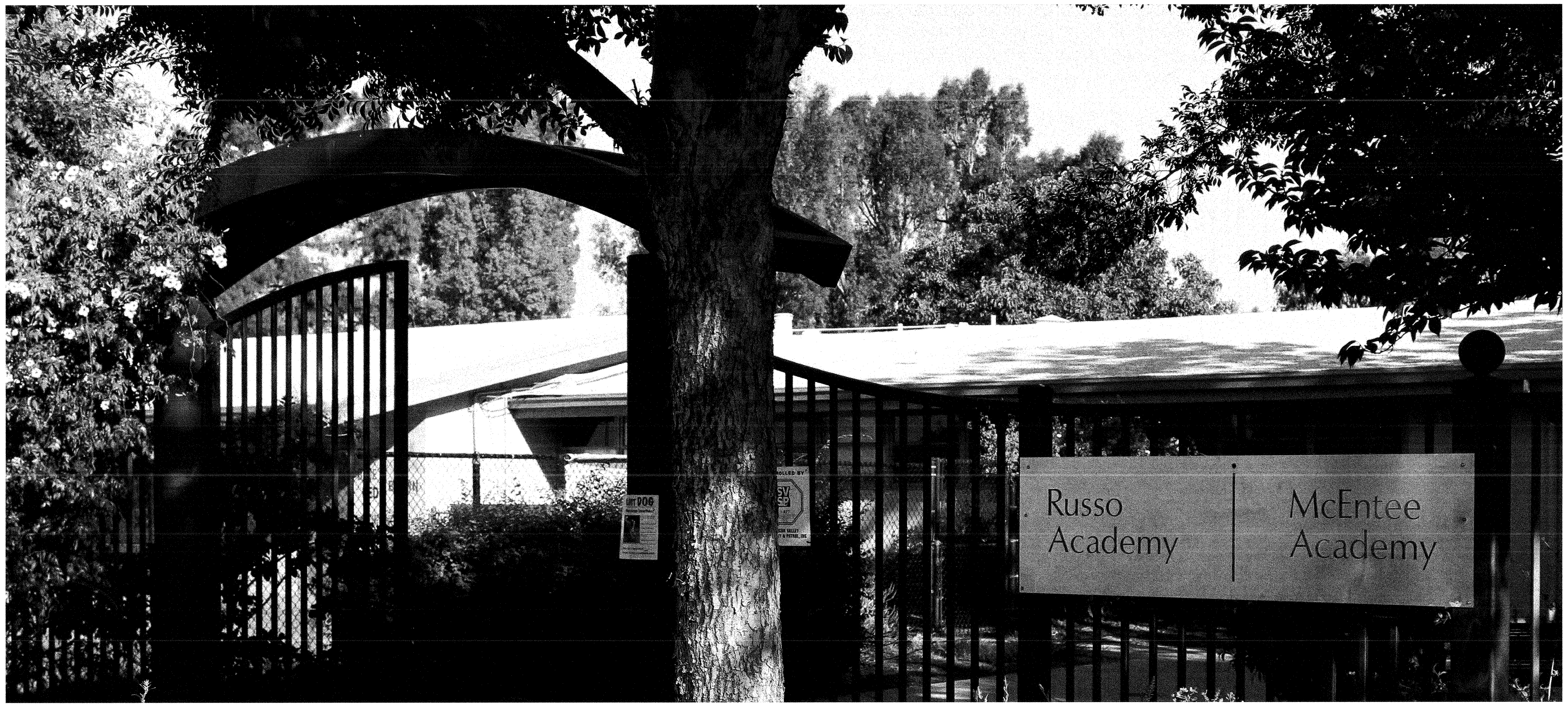
- ADDENDA MUST BE SIGNED BY ARCHITECT AND APPROVED BY DSA
- NO CHANGED OR REVISIONS SHALL BE MADE FOLLOWING WRITTEN APPROVAL WHICH AFFECTS ACCESS COMPLIANCE ITEM UNLESS SUCH CHANGES TO REVISIONS ARE SUBMITTED TO DSA FOR APPROVAL.
- SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS SHALL BE SUBMITTED AS A CONSTRUCTION CHANGE DOCUMENT OR ADDENDA, AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION
- CONSTRUCTION CHANGE DOCUMENTS MUST BE SIGNED BY THE FOLLOWING:
  - ARCHITECT OR ENGINEER OF RECORD
  - STRUCTURAL ENGINEER (WHEN APPLICABLE)
  - DELEGATED PROFESSIONAL ENGINEER
  - DSA
- MATERIALS AND THEIR INSTALLATIONS SHALL COMPLY WITH APPLICABLE CODES.
- PER CBC 11B-104.1 "ALL DIMENSIONS ARE SUBJECT TO CONVENTIONAL INDUSTRY TOLERANCES EXCEPT WHERE THE REQUIREMENT IS STATED AS A RANGE WITH SPECIFIC MINIMUM AND MAXIMUM END POINTS.

ABBREVIATIONS

(REFER TO CONSULTANT DRAWINGS FOR ADDITIONAL ABBREVIATIONS)

A.F.F.	ABOVE FINISHED FLOOR
A.P.	ACCESS PANEL
ACT	ACOUSTIC TILE
ADJ.	ADJUSTABLE
ALUM.	ALUMINUM
A.B.	ANCHOR BOLT
APPROX.	APPROXIMATELY
ARCH.	ARCHITECT
AC	ASPHALTIC CONCRETE
@	AT
B.M.	BENCH MARK
BLKG.	BLOCKING
BD.	BOARD
B.W.	BOTH WAYS
BOT.	BOTTOM
BLDG.	BUILDING
B.U.R.	BUILT-UP ROOFING
B.B.	BULLETIN BOARD
CAB.	CABINET
C.I.	CAST IRON
C.B.	CATCH BASIN and/or CHALKBOARD
CLG.	CEILING
CEM.	CEMENT
C.C or O.C.	CENTER TO CENTER
	CENTERLINE
CER. TILE	CERAMIC TILE
C.O.	CLEANOUT
C.O.T.G.	CLEANOUT TO GRADE
CLR.	CLEAR
C.A.H.R.	CLEAR ALL HEART REDWOOD
C.W.	COLD WATER
COL.	COLUMN
COM.	COMMON
CONC.	CONCRETE
C.P.	CONCRETE PIPE
CONST.	CONSTRUCTION
C.H.	CONSTRUCTION HEART
C.J.	CONSTRUCTION JOINT
CONT.	CONTINUOUS
CONTR.	CONTRACTOR
CTR.	COUNTER
CTSK.	COUNTER SUNK
DET.	DETAIL
DIA. or Ø	DIAMETER
DIM.	DIMENSION
D.A.	DISABLED ACCESS
DW	DISHWASHER
DISP.	DISPOSAL
DO	DITTO
DR.	DOOR
D.S.	DOWNSPOUT
DWG.	DRAWING
D.F.	DRINKING FOUNTAIN and/or DOUGLAS FIR
EA.	EACH
E.W.	EACH WAY
ELEC.	ELECTRIC or ELECTRICAL
E.W.C.	ELECTRIC WATER COOLER
EL. or ELEV.	ELEVATION
ENCL.	ENCLOSE and/or ENCLOSURE
EQ.	EQUAL
EQUIP.	EQUIPMENT
(E)	EXISTING
EX.	EXPANSION
E.J.	EXPANSION JOINT
EXP.	EXPOSED
EXT.	EXTERIOR
F.O.C.	FACE OF CONCRETE
F.O.M.	FACE OF MASONRY
F.O.S.	FACE OF STUD
F.O.F.	FACE OF FINISH
FIN.	FINISH
F.F.	FINISHED FLOOR
F.S.	FINISH SLAB
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
F.H.	FIRE HYDRANT
F.H.C.	FIRE HOSE CABINET
F.H.M.S.	FLAT HEAD METAL SCREW
F.H.W.S.	FLAT HEAD WOOD SCREW
FL. or FLR.	FLOOR
F.D.	FLOOR DRAIN
FTG.	FOOTING
FND.	FOUNDATION
GALV.	GALVANIZED
G.I.	GALVANIZED IRON
GA.	GAUGE
GL.	GLASS
GLU-LAM	GLUE-LAMINATED
GRD.	GRADE
GYP. BD.	GYPSUM BOARD
HDW.	HARDWARE
HT.	HEIGHT
H.C.	HOLLOW CORE
H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
H.B.	HOSE BIBB
HR.	HOUR
I.D.	INSIDE DIAMETER
INSUL.	INSULATION
INT.	INTERIOR
INV.	INVERT
JAN.	JANITOR
JT	JOINT
J.H.	JOIST HANGER
K.D.	KILN DRIED

LAB.	LABORATORY
LAM.	LAMINATE
LAV.	LAVATORY
M.B.	MACHINE BOLT
M.S.	MACHINE SCREW
M.H.	MANHOLE
MFG.	MANUFACTURER
M.B.	MARKER BOARD
M.O.	MASONRY OPENING
MATL.	MATERIAL
MAX.	MAXIMUM
MECH.	MECHANICAL
MTL.	METAL
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MTD.	MOUNTED
MUL.	MULLION
(N)	NEW
NOM.	NOMINAL
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
NO. or #	NUMBER
OBS.	OBSCURE
OCC.	OCCUPANT(CY)
O.C.	ON CENTER
OPNG.	OPENING
OPP.	OPPOSITE
O.H.	OPPOSITE HAND
O.F.O.S.	OUTSIDE FACE OF STUD
O.H.W.S.	OVAL HEAD WOOD SCREW
O.D.	OVERFLOW DRAIN and/or OUTSIDE DIAMETER
O.F.C.I.	OWNER FURNISHED and CONTRACTOR INSTALLED
PR.	PAIR
PART.	PARTITION
PL	PLATE
d	PENNY (NAILS)
PLAS.	PLASTER
PLYWD.	PLYWOOD
P.V.C.	POLY VINYL CHLORIDE
P.A.F.	POWDER ACTUATED FASTENER
P.T.	PRESSURE TREATED
P.L.	PROPERTY LINE
R. or RAD.	RADIUS
R.W.L.	RAIN WATER LEADER
RWD./R.W.	REDWOOD
R.C.P.	REINFORCED CONCRETE PIPE
REINF.	REINFORCING
REQ'D	REQUIRED
R.A.G.	RETURN AIR GRILLE
R.E.	RIM ELEVATION
R.D.	ROOF DRAIN
RM.	ROOM
R.O.	ROUGH OPENING
RND.	ROUND
R.H.M.S.	ROUND HEAD METAL SCREW
R.H.W.S.	ROUND HEAD WOOD SCREW
S.D.	SASH DIMENSION
SSD.	SEE STRUCTURAL DRAWINGS
S.T.S.M.S.	SELF TAPPING SHEET METAL SCREW
SHEATH.	SHEATHING
SHT.	SHEET METAL
S.M.	SHEET METAL SCREW
S.M.S.	
S.O.V.	SHUT OFF VALVE
SIM.	SIMILAR
S.C.	SOLID CORE
SPEC.	SPECIFICATION
SQ.	SQUARE
S.F.	SQUARE FEET
STAG.	STAGGERED
STD.	STANDARD
S.S.	STAINLESS STEEL
STL.	STEEL
STOR.	STORAGE
STRUCT.	STRUCTURAL
S.A.G.	SUPPLY AIR GRILLE
TEL.	TELEPHONE
T.T.B.	TELEPHONE TERMINAL BOARD
TERR.	TERRAZZO
THRES.	THRESHOLD
T&G	TONGUE & GROOVE
T.J.	TOOLED JOINT
T.O.B.	TOP OF BEAM
T.O.C.	TOP OF CURB or CONCRETE
T.O.S.	TOP OF STEEL or SHEATHING
T.O.W.	TOP OF WALK
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
U.O.S.	UNLESS OTHERWISE SHOWN
V.T.R.	VENT THROUGH ROOF
VERT.	VERTICAL
V.G.	VERTICAL GRAIN
V.I.F.	VERIFY IN FIELD
V.C.T.	VINYL COMPOSITION TILE
V.W.C.	VINYL WALL COVERING
V.C.P.	VITRIFIED CLAY PIPE
W.C.	WATER CLOSET
W.H.	WATER HEATER
WP.	WATERPROOF
W.R.	WATER RESISTANT
W.W.M.	WELDED WIRE MESH
W.D.	WINDOW DIMENSION
W/	WITH
W/O	WITHOUT
WD.	WOOD



BUILDING CODES AND STANDARDS:

2016	CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2016	CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, C.C.R. (2015 INTERNATIONAL BUILDING CODE, VOLUMES 1 AND 2, WITH 2016 CALIFORNIA AMENDMENTS.)
2016	CALIFORNIA ELECTRIC CODE (CEC), PART 3, TITLE 24, C.C.R. (2014 NATIONAL ELECTRIC CODE WITH 2016 CALIFORNIA AMENDMENTS).
2016	CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, C.C.R. (2015 UNIFORM MECHANICAL CODE WITH 2016 CALIFORNIA AMENDMENTS).
2016	CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, C.C.R. (2015 UNIFORM PLUMBING CODE WITH 2016 CALIFORNIA AMENDMENTS).
2016	CALIFORNIA ENERGY CODE (CENC), PART 6, TITLE 24, C.C.R.
2016	CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, C.C.R. (2015 INTERNATIONAL FIRE CODE WITH 2016 CALIFORNIA AMENDMENTS).
2016	CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24, C.C.R.
2016	CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24, C.C.R.
2013	ASME A17.1 (W/A17.1a/CSA B44a-08 ADDENDA) SAFETY CODE FOR ELEVATORS AND ESCALATORS
2010	ADA STANDARDS FOR ACCESSIBLE DESIGN (28 CFR PART 35 FOR TITLE II ENTITIES)

CCR TITLE-19, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

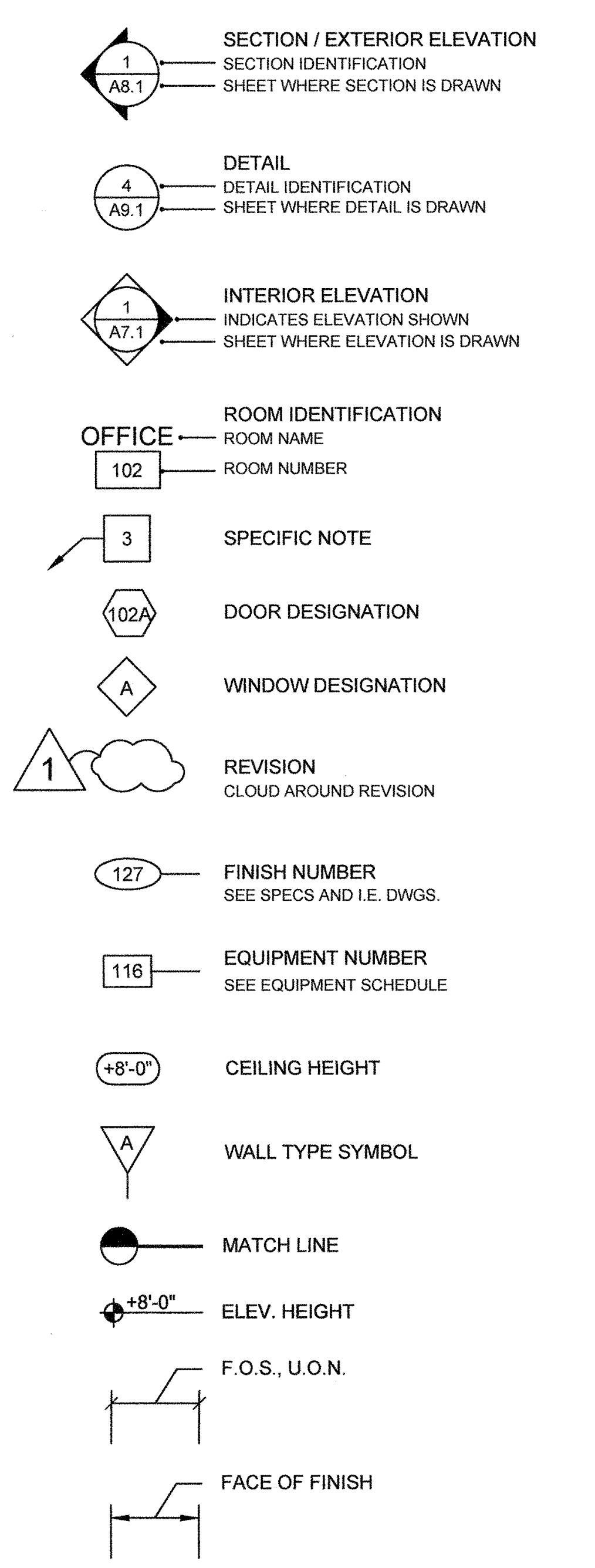
NFPA 13	INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED)	2016 EDITION
NFPA 14	INSTALLATION OF STANDPIPE & HOSE SYSTEMS (CA AMENDED)	2013 EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2013 EDITION
NFPA 17A	WET CHEMICAL EXTINGUISHING SYSTEM	2013 EDITION
NFPA 20	STATIONARY FIRE PUMPS TO FIRE PROTECTION	2016 EDITION
NFPA 22	WATER TANKS FOR PRIVATE FIRE PROTECTION	2013 EDITION
NFPA 24	PRIVATE FIRE SERVICE MAINS (CA AMENDED).	2016 EDITION
NFPA 25	INSPECTION, TESTING AND MAINTENANCE OF WATER BASED FIRE PROTECTION SYSTEMS	2013 CALIFORNIA EDITION
NFPA 72	NATIONAL FIRE ALARM CODE (CA AMENDED)	2016 EDITION
NFPA 80	FIRE DOORS AND OTHER OPENING PROTECTIVES	2016 EDITION
NFPA 92	STANDARD FOR SMOKE CONTROL SYSTEMS	2012 EDITION
NFPA 110	EMERGENCY AND STANDBY POWER SYSTEMS	2013 EDITION
NFPA 170	STANDARD FOR FIRE SAFETY AND EMERGENCY SYMBOLS	2013 EDITION
NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS	2006 EDITION
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2015 EDITION
ICC 300	STANDARDS FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS	2012 EDITION

SFM 12-10-1	POWER OPERATED EXIT DOORS
SFM 12-10-2	SINGLE POINT LATCHING OR LOCKING DEVICES
SFM 12-10-3	EMERGENCY EXIT & PANIC HARDWARE

UL 38	MANUAL OPERATING SIGNAL BOXES	1999/2005 EDITION
UL 268	SMOKE DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS	2009 EDITION
UL 268A	SMOKE DETECTORS DUCT APPLICATIONS	1998/2003 EDITION
UL 300	FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT	2005 (R2010)
UL 305	PANIC HARDWARE	2012 EDITION
UL 464	AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, AND ACCESSORIES	2003 EDITION
UL 521	HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS	1999 EDITION
UL 864	CONTROL UNITS FOR FIRE PROTECTIVE SIGNALING SYSTEMS (W/ REVISIONS THROUGH JULY 14, 2005)	2003 EDITION
UL 1971	SIGNALING DEVICES FOR THE HEARING IMPAIRED	2002 EDITION

COMPLIANCE WITH CFC CHAPTER 33, FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION AND CBC CHAPTER 33, SAFETY DURING CONSTRUCTION WILL BE ENFORCED.

SYMBOLS LEGEND



SECTION / EXTERIOR ELEVATION
SECTION IDENTIFICATION
SHEET WHERE SECTION IS DRAWN

DETAIL
DETAIL IDENTIFICATION
SHEET WHERE DETAIL IS DRAWN

INTERIOR ELEVATION
INDICATES ELEVATION SHOWN
SHEET WHERE ELEVATION IS DRAWN

ROOM IDENTIFICATION
ROOM NAME
ROOM NUMBER

SPECIFIC NOTE

DOOR DESIGNATION

WINDOW DESIGNATION

REVISION
CLOUD AROUND REVISION

FINISH NUMBER
SEE SPECS AND I.E. DWGS.

EQUIPMENT NUMBER
SEE EQUIPMENT SCHEDULE

CEILING HEIGHT

WALL TYPE SYMBOL

MATCH LINE

ELEV. HEIGHT

F.O.S., U.O.N.

FACE OF FINISH

PROJECT SUMMARY

THE FOLLOWING IS A SUMMARY OF THE SCOPE OF WORK:

-HVAC REPLACEMENT IN EXISTING BUILDINGS; ADMINISTRATION/KINDERGARTEN,CLASSROOMS UNITS A,B,C,D,& MULTI-PURPOSE BUILDING,
AND ASSOCIATED SITE WORK RELATED TO THE INSTALLATION OF CONDENSING UNITS/PUMPS INCLUDING PLUMBING, MECHANICAL AND ELECTRICAL WORK.
-INTERIOR LIGHTING AND FIRE ALARM UPGRADES IN BUILDINGS: ADMINISTRATION/KINDERGARTEN, CLASSROOMS-A,B,C,D & MULTI-PURPOSE BUILDING.
-ACCESSIBILITY UPGRADES

THERE ARE NO DEFERRED SUBMITTALS FOR THIS PROJECT.

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DRAWING INDEX

T1 TITLE SHEET

ARCHITECTURAL

A0.1 SITE PLAN
A0.2 SITE DETAILS
A0.3 SITE DETAILS
A2.1 DEMOLITION/NEW FLOOR PLANS- MULTI-PURPOSE BUILDING
A2.2 DEMOLITION/NEW FLOOR PLANS- ADMIN/KINDERGARTEN BUILDING
A2.3 DEMOLITION/NEW FLOOR PLANS- UNIT A
A2.4 DEMOLITION/NEW FLOOR PLANS- UNIT B
A2.5 DEMOLITION/NEW FLOOR PLANS- UNIT C
A2.6 DEMOLITION/NEW FLOOR PLANS- UNIT D
A3.1 REFLECTED CEILING PLAN- MULTI-PURPOSE BUILDING
A3.2 REFLECTED CEILING PLAN- ADMIN/KINDERGARTEN BUILDING
A3.3 REFLECTED CEILING PLAN- UNIT A
A3.4 REFLECTED CEILING PLAN- UNIT B
A3.5 REFLECTED CEILING PLAN- UNIT C
A3.6 REFLECTED CEILING PLAN- UNIT D
A9.1 TYPICAL DETAILS
A9.2 TYPICAL DETAILS
A9.3 TYPICAL DETAILS

STRUCTURAL

S1.0 GENERAL STRUCTURAL NOTES
S2.1 PARTIAL FOUNDATION & PARTIAL ROOF FRAMING PLAN
S5.1 TYPICAL CONCRETE DETAILS
S8.1 TYPICAL WOOD DETAILS

MECHANICAL

M0.1 LEGENDS, SCHEDULES & NOTES - MECHANICAL
M0.2 SCHEDULES - MECHANICAL
M2.1 FLOOR PLANS BUILDING 1 - MECHANICAL
M2.2 FLOOR PLANS ADMINISTRATION BUILDING - MECHANICAL
M2.3 FLOOR PLANS UNIT A - MECHANICAL
M2.4 FLOOR PLANS UNIT B - MECHANICAL
M2.5 FLOOR PLANS UNIT C - MECHANICAL
M2.6 FLOOR PLANS UNIT D - MECHANICAL
M3.1 PIPING PLANS BUILDINGS 1 & ADMIN - MECHANICAL
M3.2 PIPING PLANS UNIT A & B - MECHANICAL
M3.3 PIPING PLANS UNIT C & D - MECHANICAL
M5.1 CONTROLS - MECHANICAL
M5.2 CONTROLS - MECHANICAL
M5.3 CONTROLS - MECHANICAL
M6.1 DETAILS - MECHANICAL
M6.2 DETAILS - MECHANICAL
M7.1 TITLE 24 DOCUMENTATION - MECHANICAL

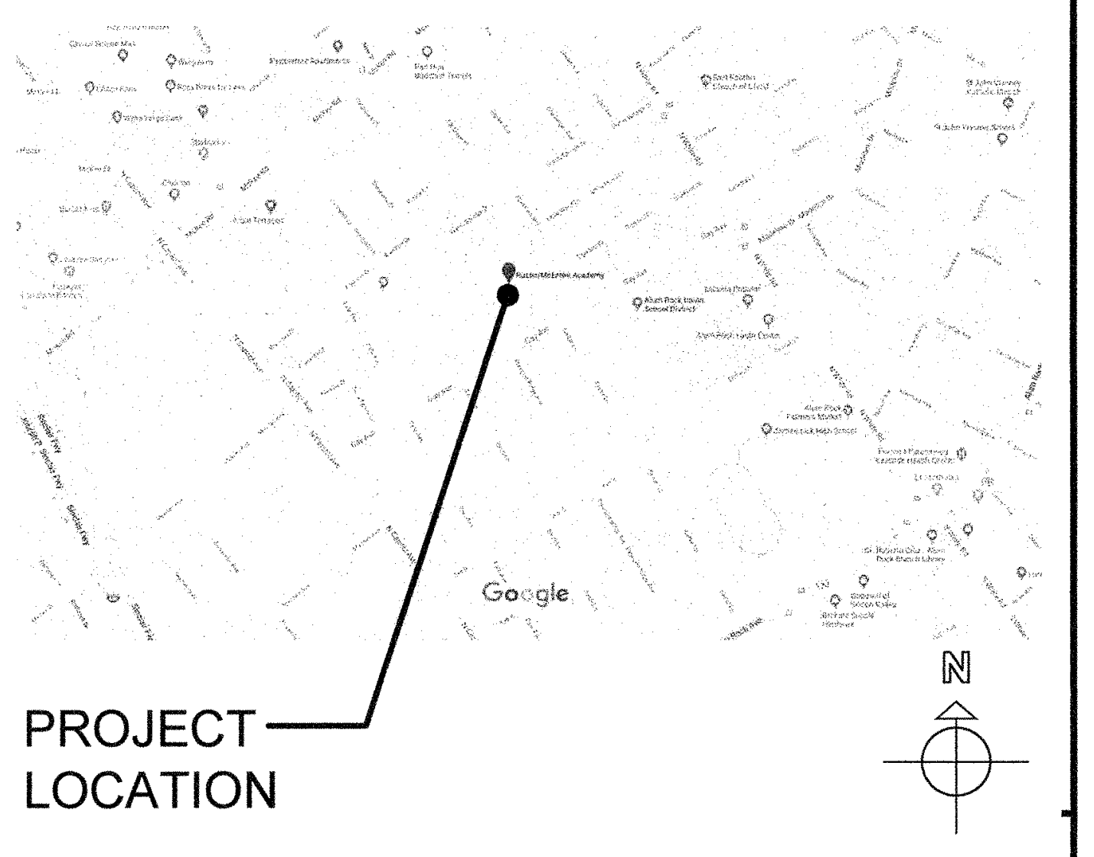
PLUMBING

P0.1 LEGENDS, SCHEDULES & NOTES -PLUMBING
P2.1 FLOOR PLANS BUILDING 1 - PLUMBING
P2.2 FLOOR PLANS ADMINISTRATION BUILDING - PLUMBING
P2.3 FLOOR PLANS UNIT A - PLUMBING
P2.4 FLOOR PLANS UNIT B - PLUMBING
P2.5 FLOOR PLANS UNIT C - PLUMBING
P2.6 FLOOR PLANS UNIT D - PLUMBING

ELECTRICAL

E0.1 ELECTRICAL SYMBOLS, ABBREVIATIONS, GENERAL NOTES AND DRAWING INDEX
E0.2 ELECTRICAL - TITLE 24 COMPLIANCE
E1.1 ELECTRICAL SITE PLAN
E2.1 MULTIPURPOSE ELECTRICAL PLANS
E2.2 KINDER-ADMIN ELECTRICAL PLANS
E2.3 UNIT A ELECTRICAL PLANS
E2.4 UNIT B ELECTRICAL PLANS
E2.5 UNIT C ELECTRICAL PLANS
E2.6 UNIT D ELECTRICAL PLANS
E4.1 FIXTURE SCHEDULE AND DETAILS
E4.2 PANEL SCHEDULES
E7.1 FIRE ALARM NOTES AND DETAILS
E7.2 FIRE ALARM RISER DIAGRAM

VICINITY MAP



STATEMENT OF GENERAL CONFORMANCE

FOR ARCHITECTS / ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND / OR OTHER CONSULTANTS

APPLICATION NO.: 01-117267 FILE NO.: 43-04

☒ THE DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET
☐ THIS DRAWING, PAGE OF SPECIFICATIONS / CALCULATIONS

HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND / OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR:

1) DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND

2) COORDINATION WITH MY PLANS AND SPECIFICATIONS AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336, 4-341 AND 4-344" OF TITLE 24, PART 1. *(TITLE 24, PART 1, SECTION 4-317(B))*

I FIND THAT:
☒ ALL DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET
☐ THIS DRAWING OR PAGE

☒ IS / ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN, AND
☒ HAS / HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS.

Mark Finney
MARK FINNEY, ~~AIA~~
C-24673
LICENSE NUMBER

5-21-18
DATE
SEPTEMBER 30, 2019
EXPIRATION DATE

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MARK C. FINNEY
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REN. 9-30-19

TITLE SHEET

RUSSO-McENTEE ACADEMY- HVAC UPGRADES
2851 GAY AVE., SAN JOSE, CA 95127
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

REVISIONS

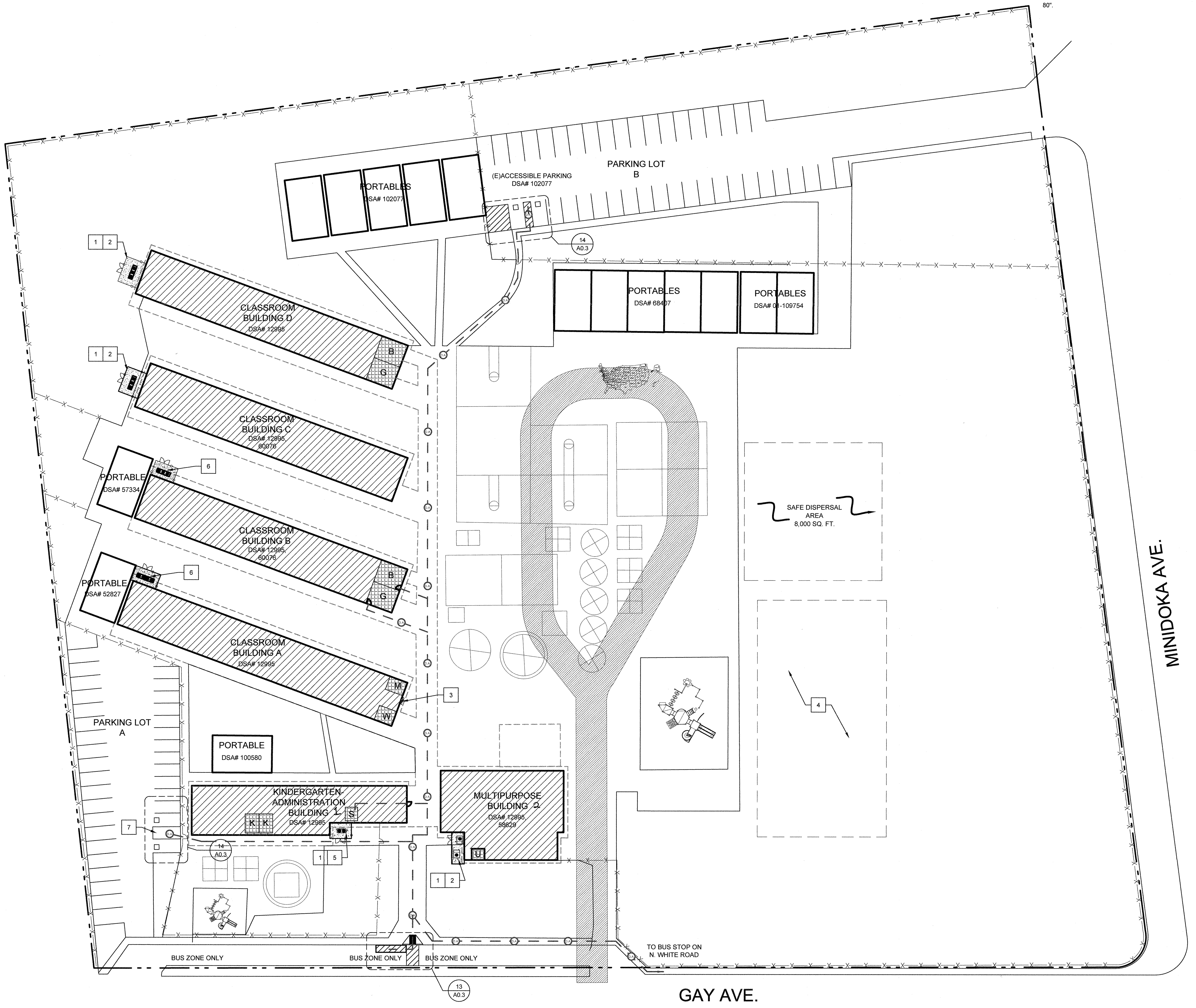
NO.	ITEM	DATE
	DD SUBMITTAL	12-8-17
	DSA SUBMITTAL	01-31-18
	BID SET	04-09-18
	DSA BACKCHECK	05-22-18

DSA FILE NUMBER 43-04

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL 01-117267
AC FLS SS
KARLENE GULLONE
DATE MAY 22 2018

DRAWN BY: KU
CHECKED BY: -
JOB NO: 17116 DATE: 10/16/2017

T1



1 RUSSO ACADEMY- SITE PLAN

1" = 30'-0"
0 7.5' 15' 30' 60' 90'

REF NORTH TRUE NORTH

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT:

DSA PR 15-01

THE PATH OF TRAVEL IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENT FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T . 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 P.O.T. 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 P.O.T. ITEMS WITHIN THE SCOPE OF THIS 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.
ACCESSIBLE PATH OF TRAVEL (P.O.T.), AS INDICATED, IS A COMMON BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING A 1/2" BEVELED AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL AND AT LEAST 48" WIDE. THE PATH SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH. CROSS SLOPE SHALL NOT BE STEEPER THAN 1:48 AND SLOPE IN THE DIRECTION OF TRAVEL SHALL NOT BE STEEPER THAN 1:20. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80".

GRAPHIC KEY

— - - —	EXISTING PROPERTY LINE
- - - -	ROOF OVERHANG
—×—×—	CHAINLINK FENCE
—□—□—□—	WOOD FENCE
—○—○—○—	DECORATIVE FENCE
—D.A— —D.A—	ACCESSIBLE PATH OF TRAVEL
▨	FIRE DEPARTMENT ACCESS. FIRE DEPARTMENT ACCESS IS 20'-0" WIDE AND RATED FOR 96,000 LBS.
▨	EXISTING BUILDING- AREA OF NEW WORK
☐	EXISTING BUILDING- NO WORK
▦	EXISTING RESTROOMS- NO WORK
-○-	(E) DRY STAND PIPE
D.F.	DRINKING FOUNTAIN
	(E) FIRE HYDRANT
-⊖-	(E) SIGN
M	(E) MENS TOILET ROOM
W	(E) WOMENS TOILET ROOM
G	(E) GIRLS TOILET ROOM
B	(E) BOYS TOILET ROOM
S	(E) STAFF TOILET ROOM
U	(E) UNISEX TOILET ROOM
K	KINDERGARTEN TOILET ROOM

GENERAL NOTES

A. REFER TO MECHANICAL, ELECTRICAL, DRAWINGS FOR EXTENT OF MECHANICAL, ELECTRICAL WORK.

B. PROVIDE TEMPORARY FENCING PERIMETER TYP. AT AREA OF CONSTRUCTION, SEE DETAIL 1/A0.2.

C. REMOVE ALL EXISTING ITEMS/EQUIPMENT TO ALLOW NEW CONSTRUCTION, INCLUDING BUT NOT LIMITED TO TREES, SHRUBS, FENCING, AC/CONC. PAVING, STORAGE UNITS

D. GENERAL CONTRACTOR SHALL SURVEY AREA OF SITE CONSTRUCTION PRIOR TO DEMOLITION WORK TO VERIFY LOCATION OF EXISTING UNDERGROUND UTILITIES, RELOCATE UNDERGROUND UTILITIES AS NEEDED TO ALLOW THE NEW WORK

E. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE ON-SITE A/O OFF-SITE STORAGE AND PROPER PROTECTION AGAINST LOSS, DAMAGE OR DETERIORATION OF NEW MATERIALS & EQUIPMENT ACQUIRED PRIOR TO THE START OF CONSTRUCTION. ON-SITE DELIVERY AND INSTALLATION OF PORTABLE CONSTRUCTION STORAGE CONTAINERS MUST BE COORDINATED IN FIELD WITH THE CONSTRUCTION MANAGER.

F. GENERAL CONTRACTOR IS RESPONSIBLE FOR MOVING, STORAGE, AND PROTECTION OF EXISTING FURNITURE AND EQUIPMENT WITHIN THE AREA OF CONSTRUCTION. GC WILL DOCUMENT EXISTING CONDITIONS AND COORDINATE WITH THE CONSTRUCTION MANAGER PRIOR TO START OF CONSTRUCTION

G. GENERAL CONTRACTOR IS RESPONSIBLE FOR CONDUCTING UNDERGROUND SURVEY OF ALL LOCATIONS FOR THE NEW CONCRETE PADS AND ENCLOSURES, AND RE-ROUTING OF EXISTING UTILITIES TO ALLOW THE NEW WORK. SEE CIVIL SITE AS-BUILTS FOR YOUR REFERENCE.

H. GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL, STORAGE AND RE-INSTALLATION OF ALL WINDOW SHADES AND TRACK SYSTEM, INCLUDING ADJUSTING/CUTTING OF SHADES TO FIT FOR RE-INSTALLATION TO ALLOW THE INSTALLATION OF NEW CEILING SYSTEMS.

I. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE INFILL, PATCH, AND REPAIR OF EXISTING ROOFING SYSTEM WHERE DEMOLITION OR NEW WORK OCCURS, AND SHALL COORDINATE WITH GARLAND ROOFING COMPANY DISTRICT'S REP.

J. EXISTING BUS LOADING ZONE COMPLIES W/CBC 11B-209.2.2 & 11B-810.2

SITE PLAN NOTES

1. MECHANICAL UNIT O/ CONCRETE PAD, SEE SHEET A0.2 DETAIL 7 AND MECHANICAL DRAWINGS.
2. PROVIDE FENCING ENCLOSURE AND A PAIR OF DOUBLE GATES, SEE SHEET A0.2 FOR CHAIN LINK FENCE DETAILS 2-5,11, & 13.
3. NEW DRINKING FOUNTAIN, SEE DETAILS 2 AND 10/A0.3.
4. AREA FOR STORAGE UNITS. CONTRACTOR SHALL MOVE ALL FURNITURE AND EQUIPMENT FROM ALL ROOMS INTO STORAGE UNITS PRIOR TO CONSTRUCTION WORK AND MOVE BACK AFTER COMPLETION OF WORK. GC IS RESPONSIBLE FOR THE INSTALLATION AND REMOVAL OF STORAGE UNITS ON SITE, COORDINATE LOCATION IN FIELD WITH OWNER.
5. PROVIDE FENCING ENCLOSURE AND A PAIR OF DOUBLE GATES, SEE SHEET A0.2 FOR CHAIN LINK FENCE DETAILS 2-5,11, & 14.
6. MECHANICAL UNIT O/ CONCRETE PAD, O/(E)AC PAVING, SEE DETAIL 15/A0.2 FOR CONC. PAD, SHEET A0.2 FOR CHAIN LINK FENCE DETAILS 2-5,11, & 13, AND MECHANICAL DRAWINGS.
7. EXISTING ACCESSIBLE PARKING, RE-STRIPE AND PROVIDE SIGNAGE PER DETAIL 14/A0.3.

SAFE DISPERSAL AREA

TOTAL 'E' OCCUPANCY BUILDINGS WITH OCCUPANTS = 40,317 SF
40,317 SF @ 20 SF/OCC = 2,016 OCCUPANTS
TOTAL 'B' OCCUPANCY BUILDINGS WITH OCCUPANTS = 1,200 SF
1,200 SF @ 100 SF/OCC = 12 OCCUPANTS
TOTAL 'A2.1' OCCUPANCY BUILDINGS WITH OCCUPANTS = 4,598 SF
4,598 SF @ 15 SF/OCC = 307 OCCUPANTS
TOTAL OCCUPANTS = = 2,335
MINIMUM DISPERSAL AREA REQUIRED: OCCUPANTS x 3 SF/OCC
2,335 X 3 SF = 7,005 SF
AREA PROVIDED = 8,000 SF THEREFORE OK.

PARKING COUNT

PARKING LOT	STANDARD STALLS	ACCESSIBLE STALLS PROVIDED	ACCESSIBLE STALLS REQUIRED	COMPLIANT
A	32	2*	2	√
B	38	2*	2	√
TOTAL	68	5	4	√

PER 2016 CBC,TABLE 11B-208.2
* INCLUDING STANDARD VEHICLE AND VAN ACCESSIBLE STALL

BUILDING CODE ANALYSIS

BUILDING	CONSTRUCTION TYPE & OCCUPANCY TYPE	AREA (SQ.FT.)
ADMIN-KINDER	VB - B/E	1,200 2,880
MULTIPURPOSE	VA - A2.1	4,598
BUILDING "A" CLASSROOMS	VB - E	6,896
BUILDING "B" PORTABLE	VB - E	5,887
BUILDING "C" CLASSROOMS	VB - E	6,281
BUILDING "D" CLASSROOMS	VB - E	5,893
PORTABLE	VB - E	960
PORTABLES (12X)	VB - E	11,520

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MARK C. FINNEY
NO. C-24673
REN. 9-30-19

SITE PLAN

RUSSO-McENTEE ACADEMY- HVAC UPGRADES
2851 GAY AVE., SAN JOSE, CA 95127
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

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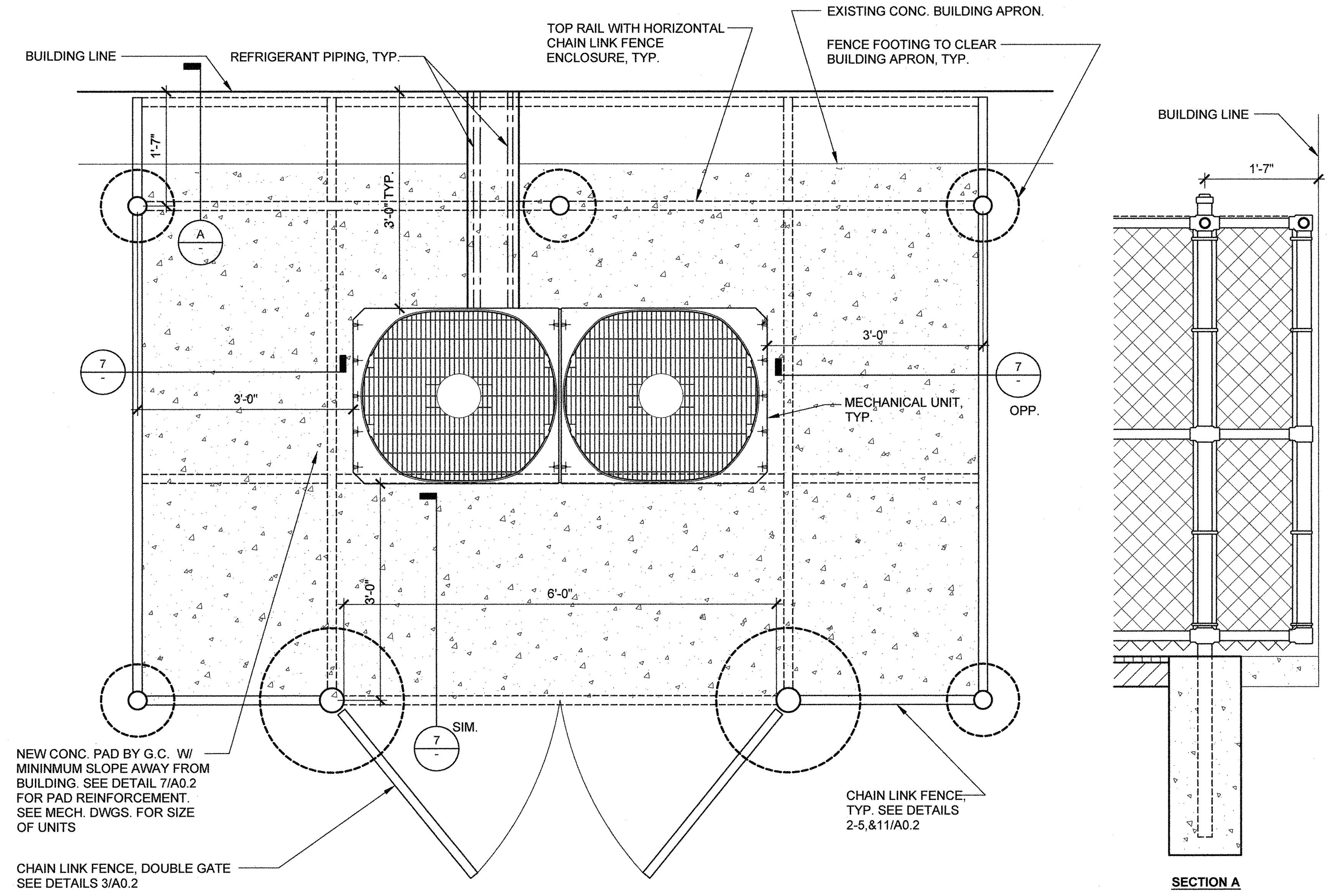
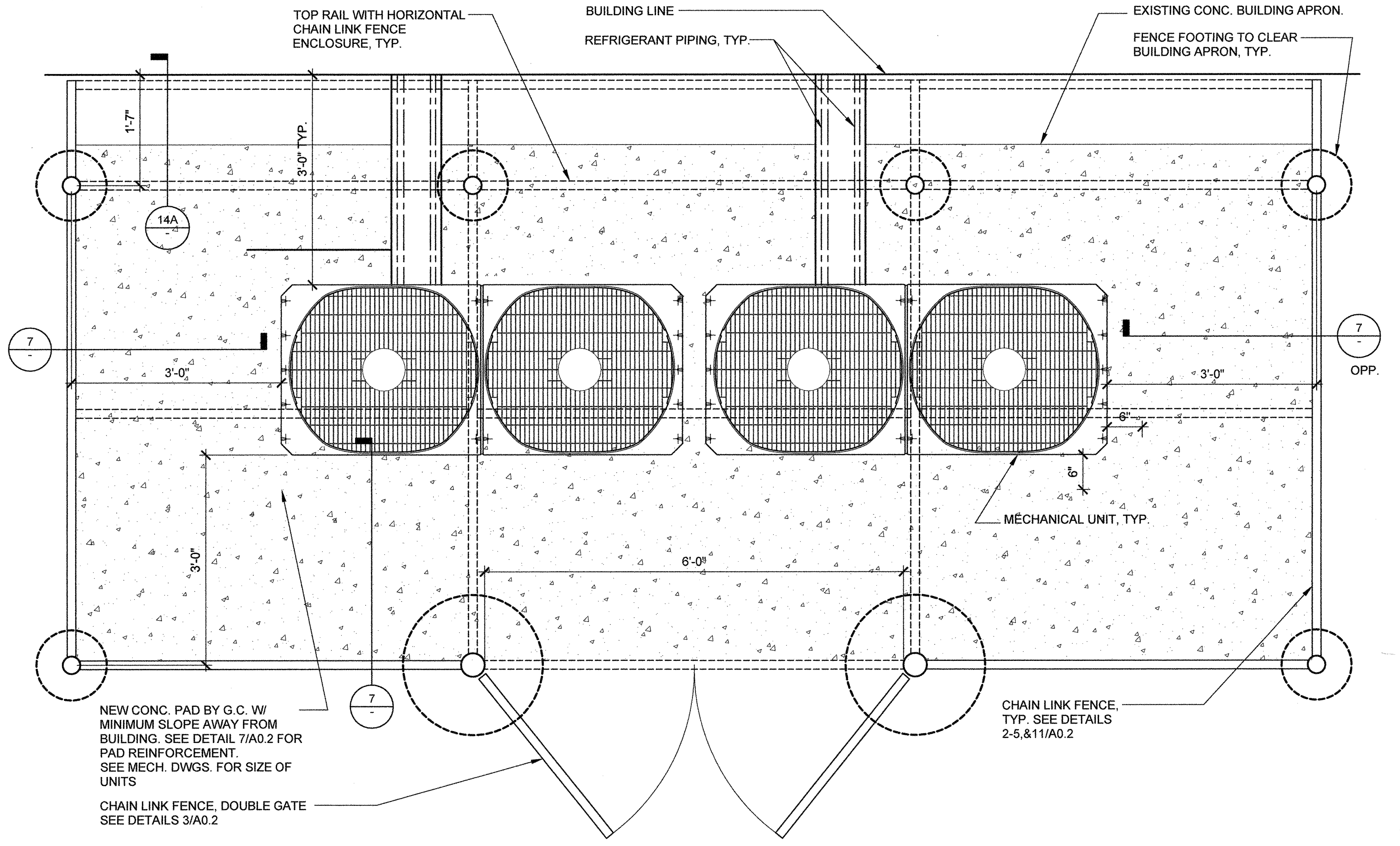

BUILDING LINE
REFRIGERANT PIPING, TYP.
TOP RAIL WITH HORIZONTAL CHAIN LINK FENCE ENCLOSURE, TYP.
EXISTING CONC. BUILDING APRON.
FENCE FOOTING TO CLEAR BUILDING APRON, TYP.
1'-7"
3'-0" TYP.
A
7
3'-0"
3'-0"
MECHANICAL UNIT, TYP.
OPP.
3'-0"
6'-0"
SIM.
NEW CONC. PAD BY G.C. W/ MININMUM SLOPE AWAY FROM BUILDING. SEE DETAIL 7/A0.2 FOR PAD REINFORCEMENT. SEE MECH. DWGS. FOR SIZE OF UNITS
CHAIN LINK FENCE, DOUBLE GATE SEE DETAILS 3/A0.2
CHAIN LINK FENCE, TYP. SEE DETAILS 2-5,&11/A0.2
BUILDING LINE
1'-7"
SECTION A

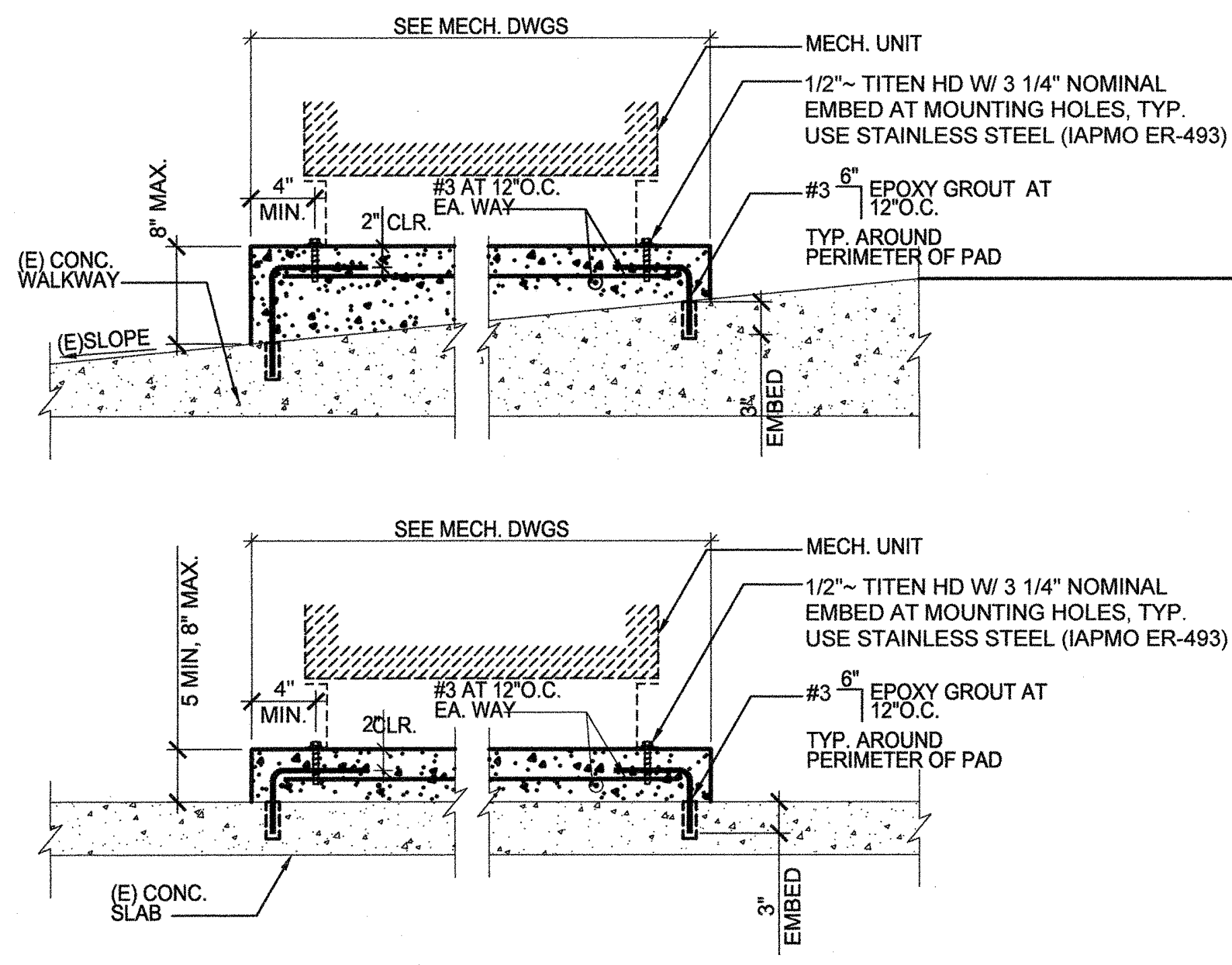
14 HOUSE KEEPING PAD ENCLOSURE

3/4"=1'-0"


TOP RAIL WITH HORIZONTAL CHAIN LINK FENCE ENCLOSURE, TYP.
BUILDING LINE
REFRIGERANT PIPING, TYP.
EXISTING CONC. BUILDING APRON.
FENCE FOOTING TO CLEAR BUILDING APRON, TYP.
1'-7"
3'-0" TYP.
14A
7
3'-0"
3'-0"
OPP.
6"
6"
MECHANICAL UNIT, TYP.
3'-0"
6'-0"
NEW CONC. PAD BY G.C. W/ MINIMUM SLOPE AWAY FROM BUILDING. SEE DETAIL 7/A0.2 FOR PAD REINFORCEMENT. SEE MECH. DWGS. FOR SIZE OF UNITS
CHAIN LINK FENCE, DOUBLE GATE SEE DETAILS 3/A0.2
CHAIN LINK FENCE, TYP. SEE DETAILS 2-5,&11/A0.2

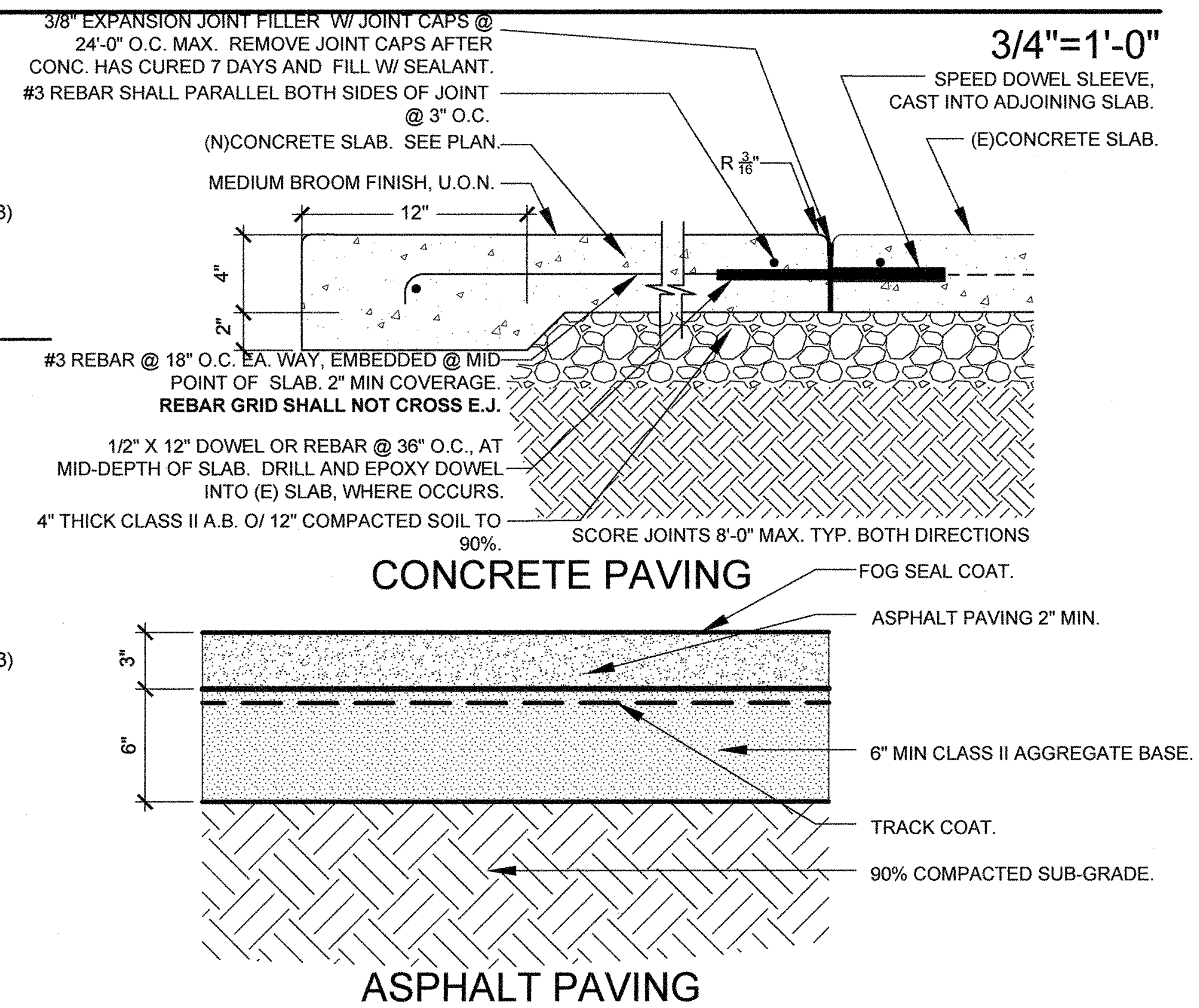
13 HOUSE KEEPING PAD ENCLOSURE

3/4"=1'-0"


SEE MECH. DWGS
MECH. UNIT
1/2"~ TITEN HD W/ 3 1/4" NOMINAL EMBED AT MOUNTING HOLES, TYP. USE STAINLESS STEEL (IAPMO ER-493)
8" MAX.
4" MIN.
2" CLR.
#3 AT 12"O.C. EA. WAY
#3 6" EPOXY GROUT AT 12"O.C.
TYP. AROUND PERIMETER OF PAD
(E) CONC. WALKWAY
(E)SLOPE
3" EMBED
SEE MECH. DWGS
MECH. UNIT
1/2"~ TITEN HD W/ 3 1/4" NOMINAL EMBED AT MOUNTING HOLES, TYP. USE STAINLESS STEEL (IAPMO ER-493)
5 MIN, 8" MAX.
4" MIN.
2CLR.
#3 AT 12"O.C. EA. WAY
#3 6" EPOXY GROUT AT 12"O.C.
TYP. AROUND PERIMETER OF PAD
(E) CONC. SLAB
3" EMBED

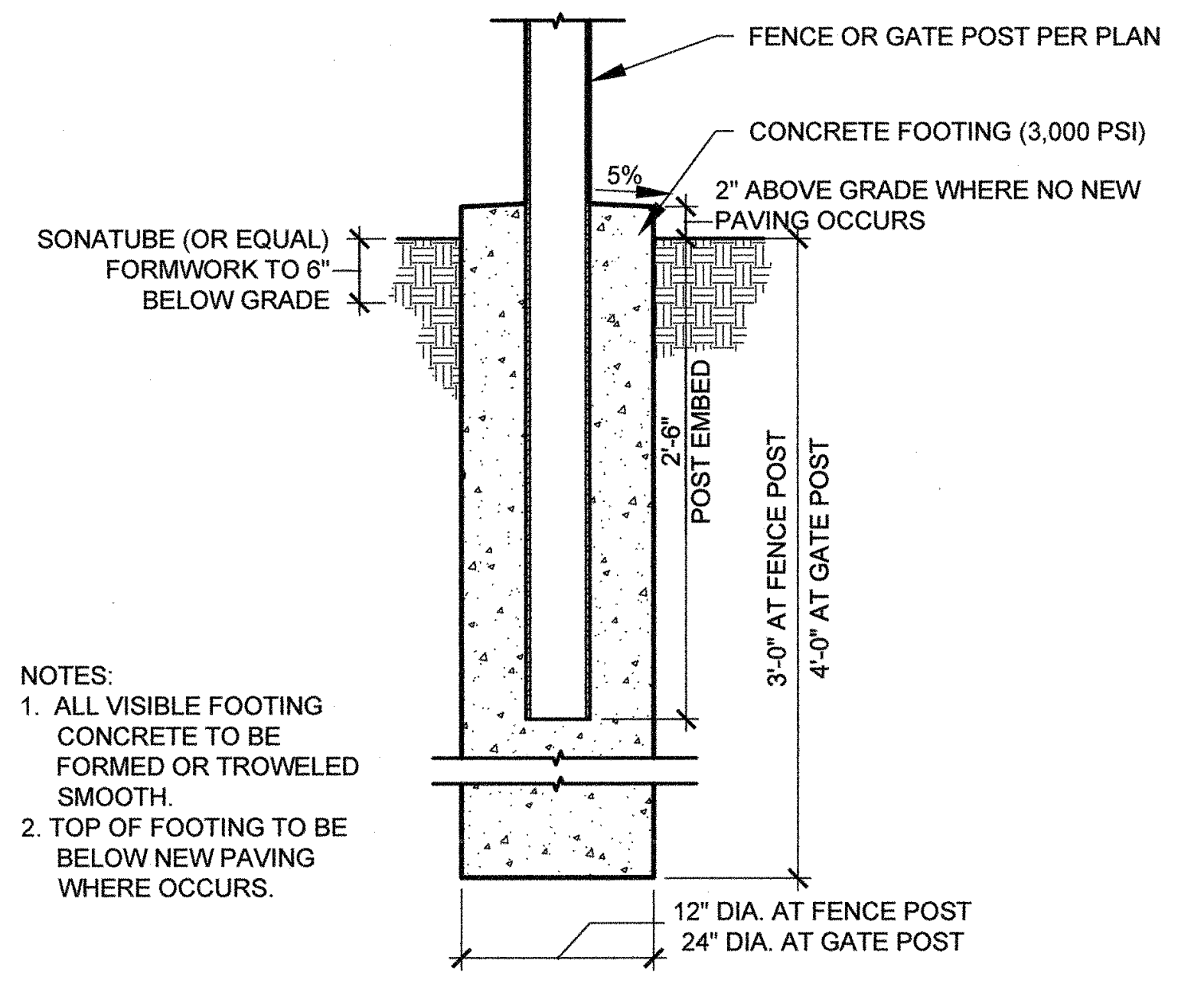
15 HOUSE KEEPING PAD

AT (E) CONCRETE 3/4"=1'-0"


3/8" EXPANSION JOINT FILLER W/ JOINT CAPS @ 24'-0" O.C. MAX. REMOVE JOINT CAPS AFTER CONC. HAS CURED 7 DAYS AND FILL W/ SEALANT.
#3 REBAR SHALL PARALLEL BOTH SIDES OF JOINT @ 3" O.C.
(N)CONCRETE SLAB. SEE PLAN.
MEDIUM BROOM FINISH, U.O.N.
SPEED DOWEL SLEEVE, CAST INTO ADJOINING SLAB.
(E)CONCRETE SLAB.
R 3/16"
12"
4"
2"
#3 REBAR @ 18" O.C. EA. WAY, EMBEDDED @ MID POINT OF SLAB. 2" MIN COVERAGE.
REBAR GRID SHALL NOT CROSS E.J.
1/2" X 12" DOWEL OR REBAR @ 36" O.C., AT MID-DEPTH OF SLAB. DRILL AND EPOXY DOWEL INTO (E) SLAB, WHERE OCCURS.
4" THICK CLASS II A.B. O/ 12" COMPACTED SOIL TO 90%.
SCORE JOINTS 8'-0" MAX. TYP. BOTH DIRECTIONS
CONCRETE PAVING
FOG SEAL COAT.
ASPHALT PAVING 2" MIN.
3"
6"
6" MIN CLASS II AGGREGATE BASE.
TRACK COAT.
90% COMPACTED SUB-GRADE.
ASPHALT PAVING

12 (N) PAVING

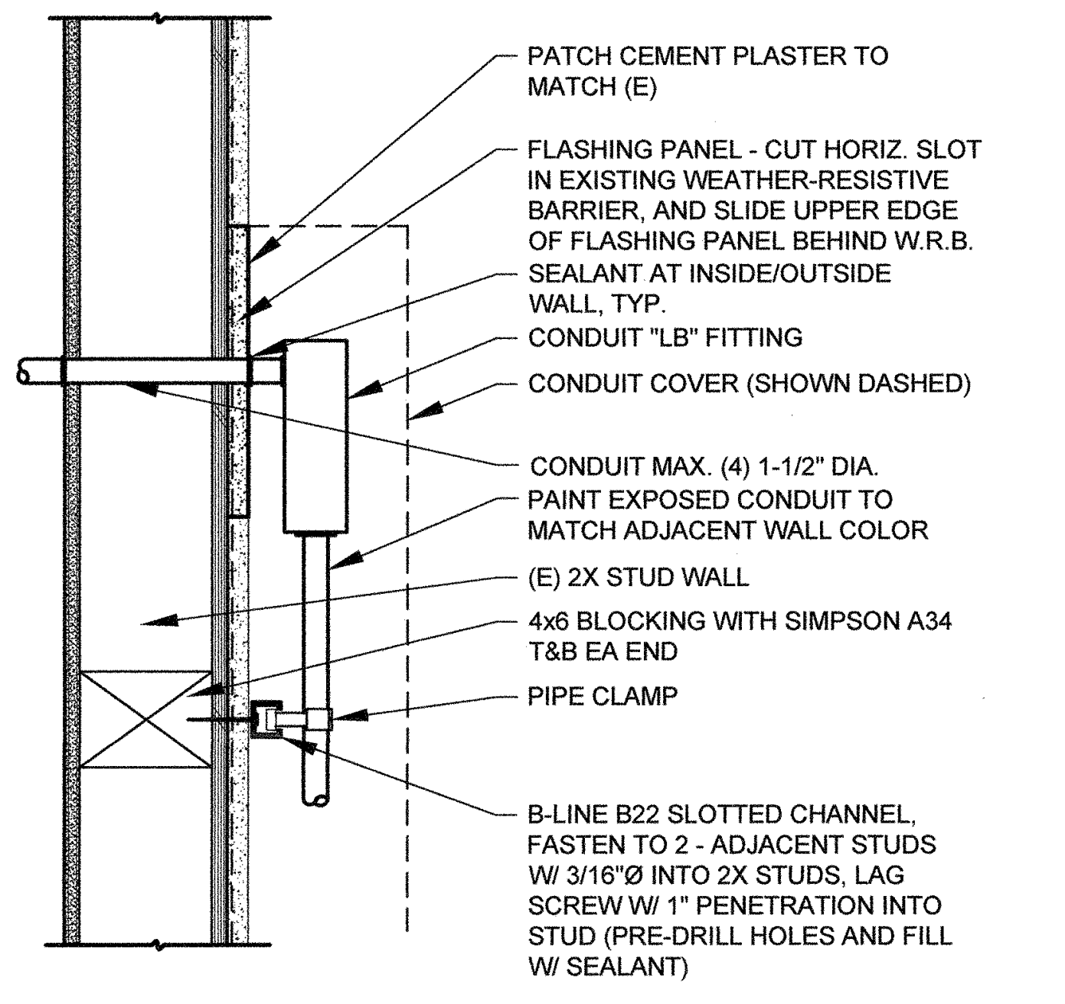
1-1/2"=1'-0"


FENCE OR GATE POST PER PLAN
CONCRETE FOOTING (3,000 PSI)
5%
2" ABOVE GRADE WHERE NO NEW PAVING OCCURS
SONATUBE (OR EQUAL) FORMWORK TO 6" BELOW GRADE
2'-6" POST EMBED
3'-0" AT FENCE POST
4'-0" AT GATE POST
12" DIA. AT FENCE POST
24" DIA. AT GATE POST

NOTES:
1. ALL VISIBLE FOOTING CONCRETE TO BE FORMED OR TROWELED SMOOTH.
2. TOP OF FOOTING TO BE BELOW NEW PAVING WHERE OCCURS.

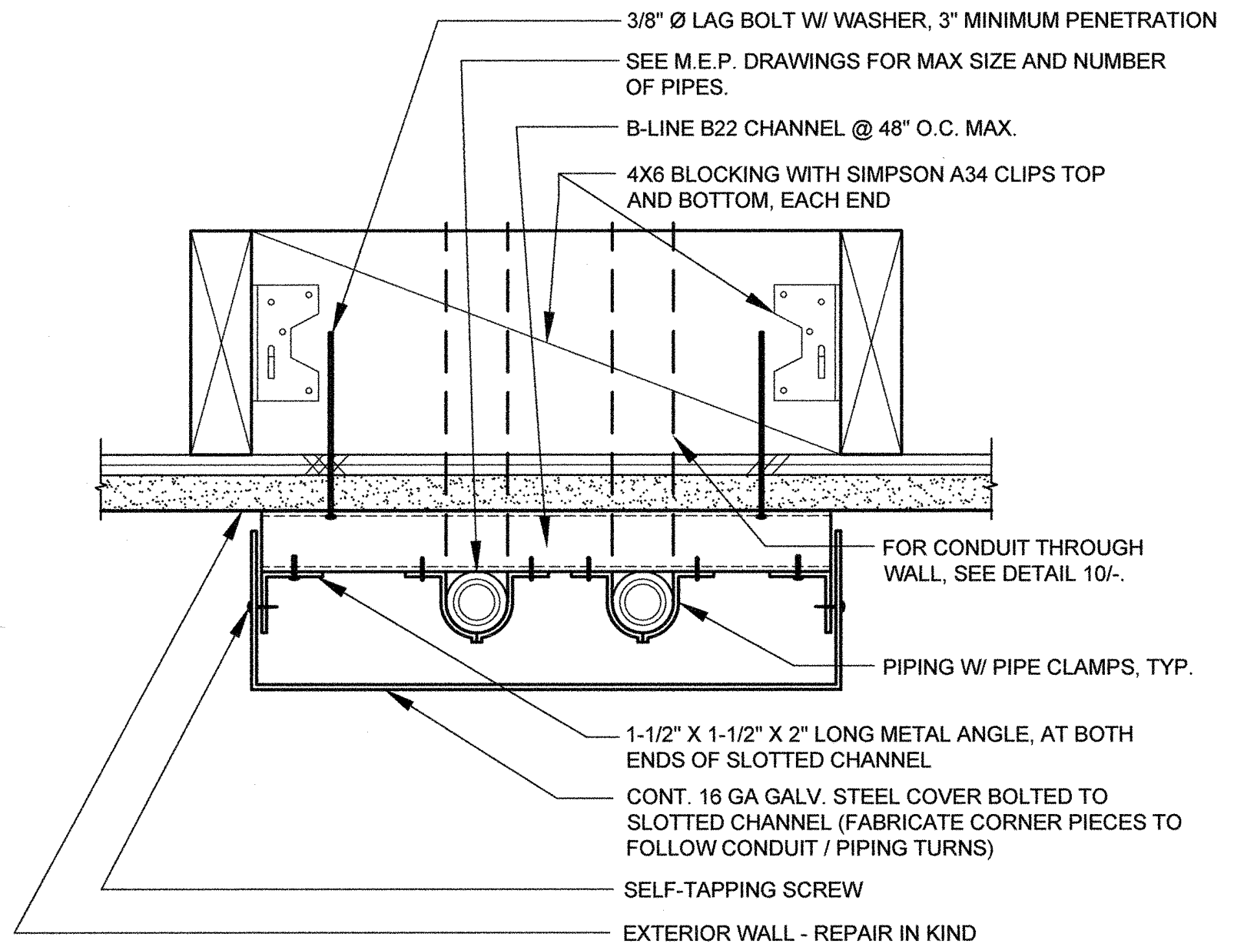
11 TYP. CHAIN LINK FENCE FOOTING

1"=1'-0"


PATCH CEMENT PLASTER TO MATCH (E)
FLASHING PANEL - CUT HORIZ. SLOT IN EXISTING WEATHER-RESISTIVE BARRIER, AND SLIDE UPPER EDGE OF FLASHING PANEL BEHIND W.R.B.
SEALANT AT INSIDE/OUTSIDE WALL, TYP.
CONDUIT "LB" FITTING
CONDUIT COVER (SHOWN DASHED)
CONDUIT MAX. (4) 1-1/2" DIA.
PAINT EXPOSED CONDUIT TO MATCH ADJACENT WALL COLOR
(E) 2X STUD WALL
4x6 BLOCKING WITH SIMPSON A34 T&B EA END
PIPE CLAMP
B-LINE B22 SLOTTED CHANNEL, FASTEN TO 2 - ADJACENT STUDS W/ 3/16"Ø INTO 2X STUDS, LAG SCREW W/ 1" PENETRATION INTO STUD (PRE-DRILL HOLES AND FILL W/ SEALANT)

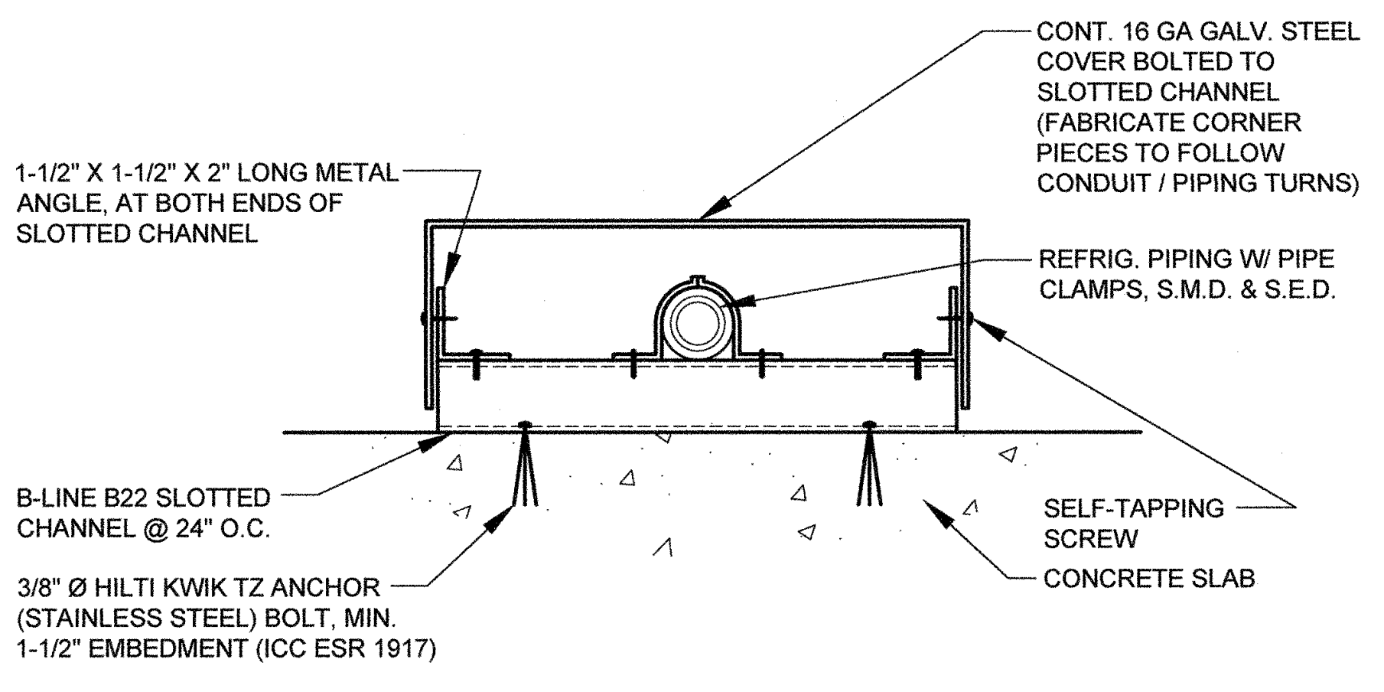
10 CONDUIT THRU WALL

1 1/2"=1'-0"


3/8" Ø LAG BOLT W/ WASHER, 3" MINIMUM PENETRATION
SEE M.E.P. DRAWINGS FOR MAX SIZE AND NUMBER OF PIPES.
B-LINE B22 CHANNEL @ 48" O.C. MAX.
4X6 BLOCKING WITH SIMPSON A34 CLIPS TOP AND BOTTOM, EACH END
FOR CONDUIT THROUGH WALL, SEE DETAIL 10/-.
PIPING W/ PIPE CLAMPS, TYP.
1-1/2" X 1-1/2" X 2" LONG METAL ANGLE, AT BOTH ENDS OF SLOTTED CHANNEL
CONT. 16 GA GALV. STEEL COVER BOLTED TO SLOTTED CHANNEL (FABRICATE CORNER PIECES TO FOLLOW CONDUIT / PIPING TURNS)
SELF-TAPPING SCREW
EXTERIOR WALL - REPAIR IN KIND

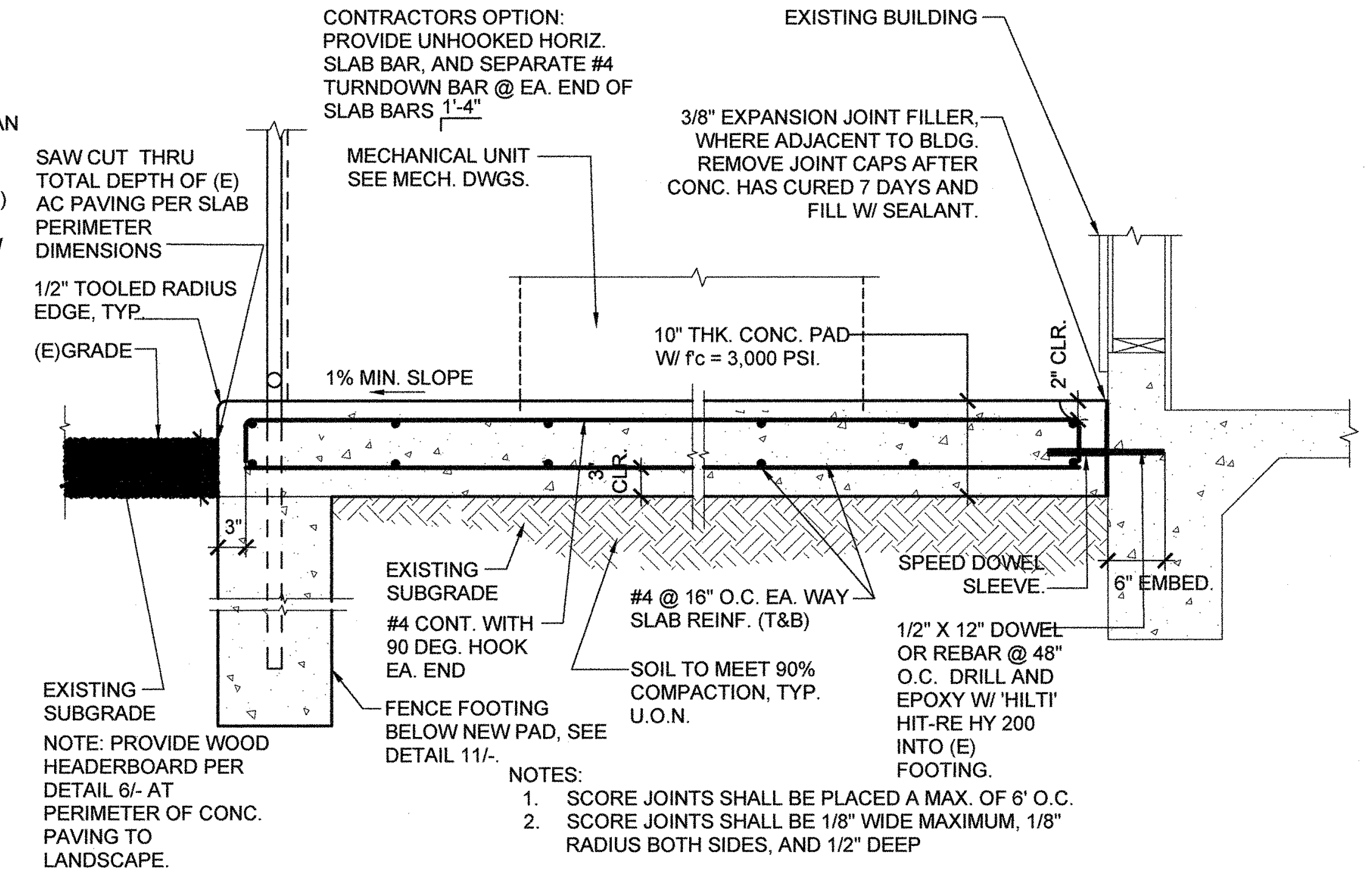
9 CONDUIT COVER @ EXT. WALL

PLAN VIEW 3"=1'-0"


CONT. 16 GA GALV. STEEL COVER BOLTED TO SLOTTED CHANNEL (FABRICATE CORNER PIECES TO FOLLOW CONDUIT / PIPING TURNS)
1-1/2" X 1-1/2" X 2" LONG METAL ANGLE, AT BOTH ENDS OF SLOTTED CHANNEL
REFRIG. PIPING W/ PIPE CLAMPS, S.M.D. & S.E.D.
B-LINE B22 SLOTTED CHANNEL @ 24" O.C.
SELF-TAPPING SCREW
CONCRETE SLAB
3/8" Ø HILTI KWIK TZ ANCHOR (STAINLESS STEEL) BOLT, MIN. 1-1/2" EMBEDMENT (ICC ESR 1917)

8 CONDUIT COVER SECTION

@ CONCRETE SLAB 3"=1'-0"

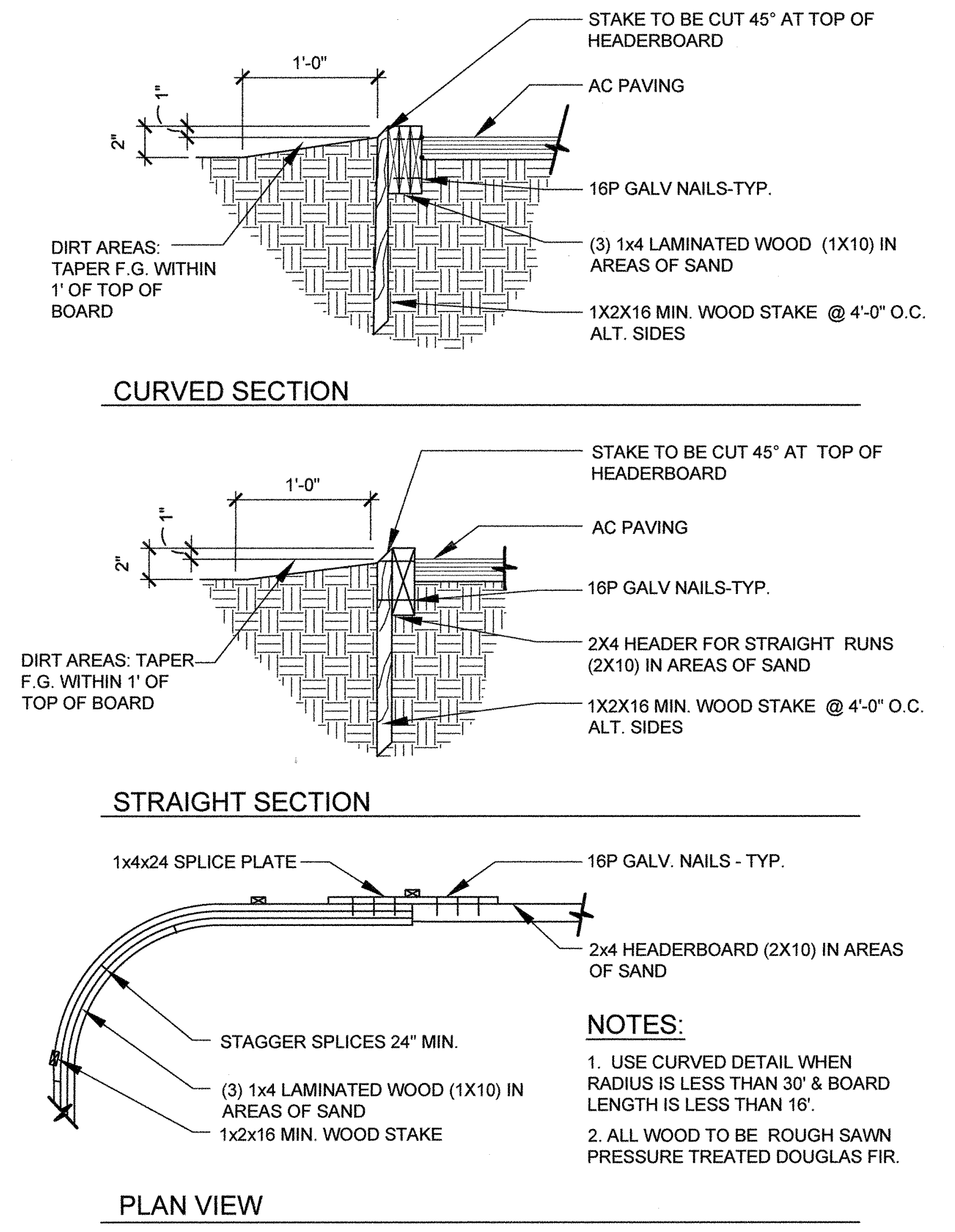

CONTRACTORS OPTION: PROVIDE UNHOOKED HORIZ. SLAB BAR, AND SEPARATE #4 TURNDOWN BAR @ EA. END OF SLAB BARS 1'-4"
EXISTING BUILDING
SAW CUT THRU TOTAL DEPTH OF (E) AC PAVING PER SLAB PERIMETER DIMENSIONS
MECHANICAL UNIT SEE MECH. DWGS.
3/8" EXPANSION JOINT FILLER, WHERE ADJACENT TO BLDG. REMOVE JOINT CAPS AFTER CONC. HAS CURED 7 DAYS AND FILL W/ SEALANT.
1/2" TOOLED RADIUS EDGE, TYP.
(E)GRADE
10" THK. CONC. PAD W/ f'c = 3,000 PSI.
1% MIN. SLOPE
2" CLR.
3" CLR.
3"
EXISTING SUBGRADE
#4 CONT. WITH 90 DEG. HOOK EA. END
#4 @ 16" O.C. EA. WAY SLAB REINF. (T&B)
SPEED DOWEL SLEEVE.
6" EMBED.
EXISTING SUBGRADE
FENCE FOOTING BELOW NEW PAD, SEE DETAIL 11/-.
SOIL TO MEET 90% COMPACTION, TYP. U.O.N.
1/2" X 12" DOWEL OR REBAR @ 48" O.C. DRILL AND EPOXY W/ 'HILTI' HIT-RE HY 200 INTO (E) FOOTING.

NOTE: PROVIDE WOOD HEADERBOARD PER DETAIL 6/- AT PERIMETER OF CONC. PAVING TO LANDSCAPE.

NOTES:
1. SCORE JOINTS SHALL BE PLACED A MAX. OF 6' O.C.
2. SCORE JOINTS SHALL BE 1/8" WIDE MAXIMUM, 1/8" RADIUS BOTH SIDES, AND 1/2" DEEP

7 HOUSE KEEPING PAD

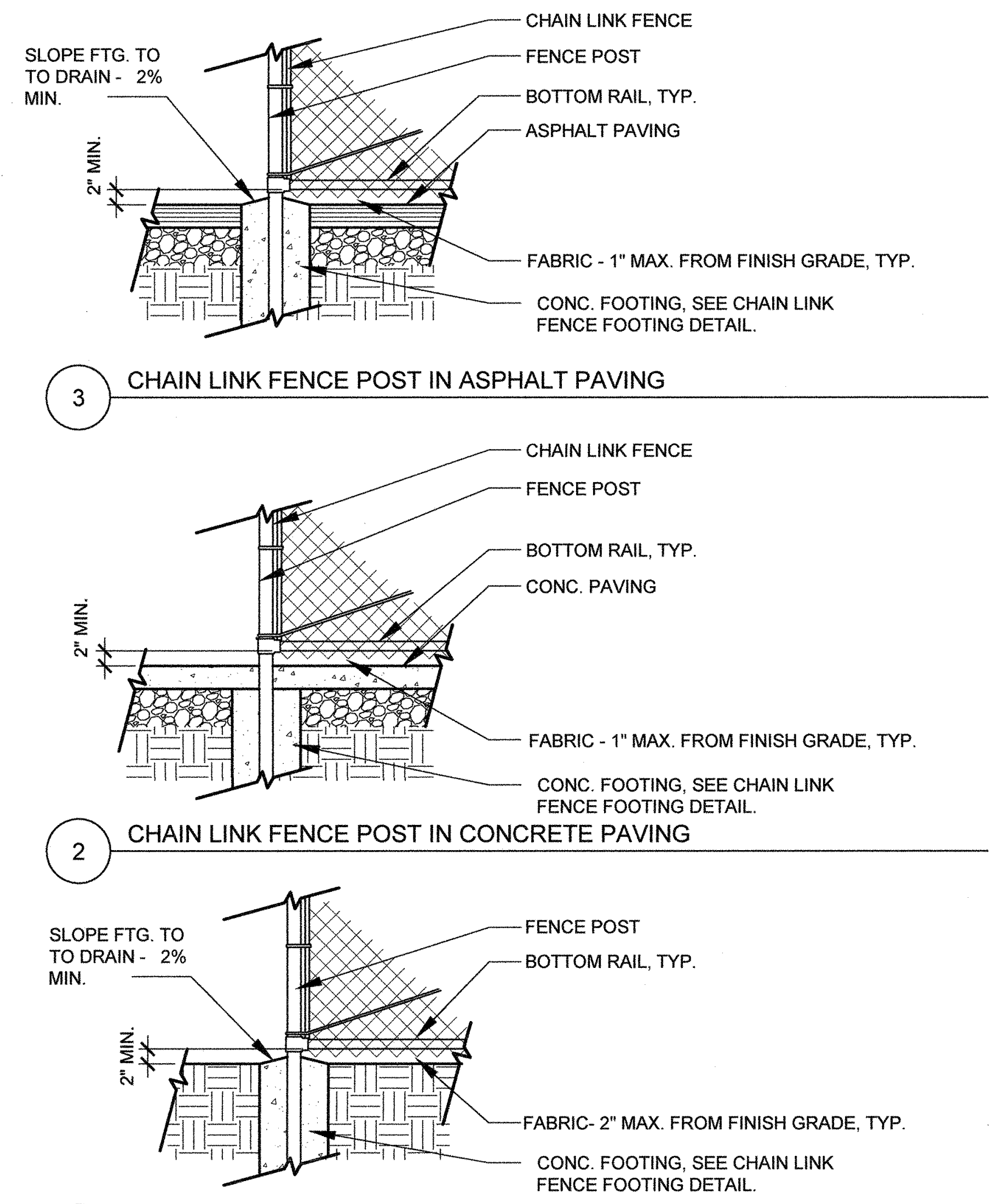
@ EXISTING PAVING/LANDSCAPE 3/4"=1'-0"


STAKE TO BE CUT 45° AT TOP OF HEADERBOARD
AC PAVING
1'-0"
1"
2"
16P GALV NAILS-TYP.
DIRT AREAS: TAPER F.G. WITHIN 1' OF TOP OF BOARD
(3) 1x4 LAMINATED WOOD (1X10) IN AREAS OF SAND
1X2X16 MIN. WOOD STAKE @ 4'-0" O.C. ALT. SIDES
CURVED SECTION
STAKE TO BE CUT 45° AT TOP OF HEADERBOARD
AC PAVING
1'-0"
1"
2"
16P GALV NAILS-TYP.
DIRT AREAS: TAPER F.G. WITHIN 1' OF TOP OF BOARD
2X4 HEADER FOR STRAIGHT RUNS (2X10) IN AREAS OF SAND
1X2X16 MIN. WOOD STAKE @ 4'-0" O.C. ALT. SIDES
STRAIGHT SECTION
1x4x24 SPLICE PLATE
16P GALV. NAILS - TYP.
2x4 HEADERBOARD (2X10) IN AREAS OF SAND
STAGGER SPLICES 24" MIN.
(3) 1x4 LAMINATED WOOD (1X10) IN AREAS OF SAND
1x2x16 MIN. WOOD STAKE
PLAN VIEW

NOTES:
1. USE CURVED DETAIL WHEN RADIUS IS LESS THAN 30' & BOARD LENGTH IS LESS THAN 16'.
2. ALL WOOD TO BE ROUGH SAWN PRESSURE TREATED DOUGLAS FIR.

6 WOOD HEADERBOARD

N.T.S


SLOPE FTG. TO TO DRAIN - 2% MIN.
CHAIN LINK FENCE
FENCE POST
BOTTOM RAIL, TYP.
ASPHALT PAVING
2" MIN.
FABRIC - 1" MAX. FROM FINISH GRADE, TYP.
CONC. FOOTING, SEE CHAIN LINK FENCE FOOTING DETAIL.
CHAIN LINK FENCE
FENCE POST
BOTTOM RAIL, TYP.
CONC. PAVING
2" MIN.
FABRIC - 1" MAX. FROM FINISH GRADE, TYP.
CONC. FOOTING, SEE CHAIN LINK FENCE FOOTING DETAIL.
SLOPE FTG. TO TO DRAIN - 2% MIN.
FENCE POST
BOTTOM RAIL, TYP.
2" MIN.
FABRIC- 2" MAX. FROM FINISH GRADE, TYP.
CONC. FOOTING, SEE CHAIN LINK FENCE FOOTING DETAIL.

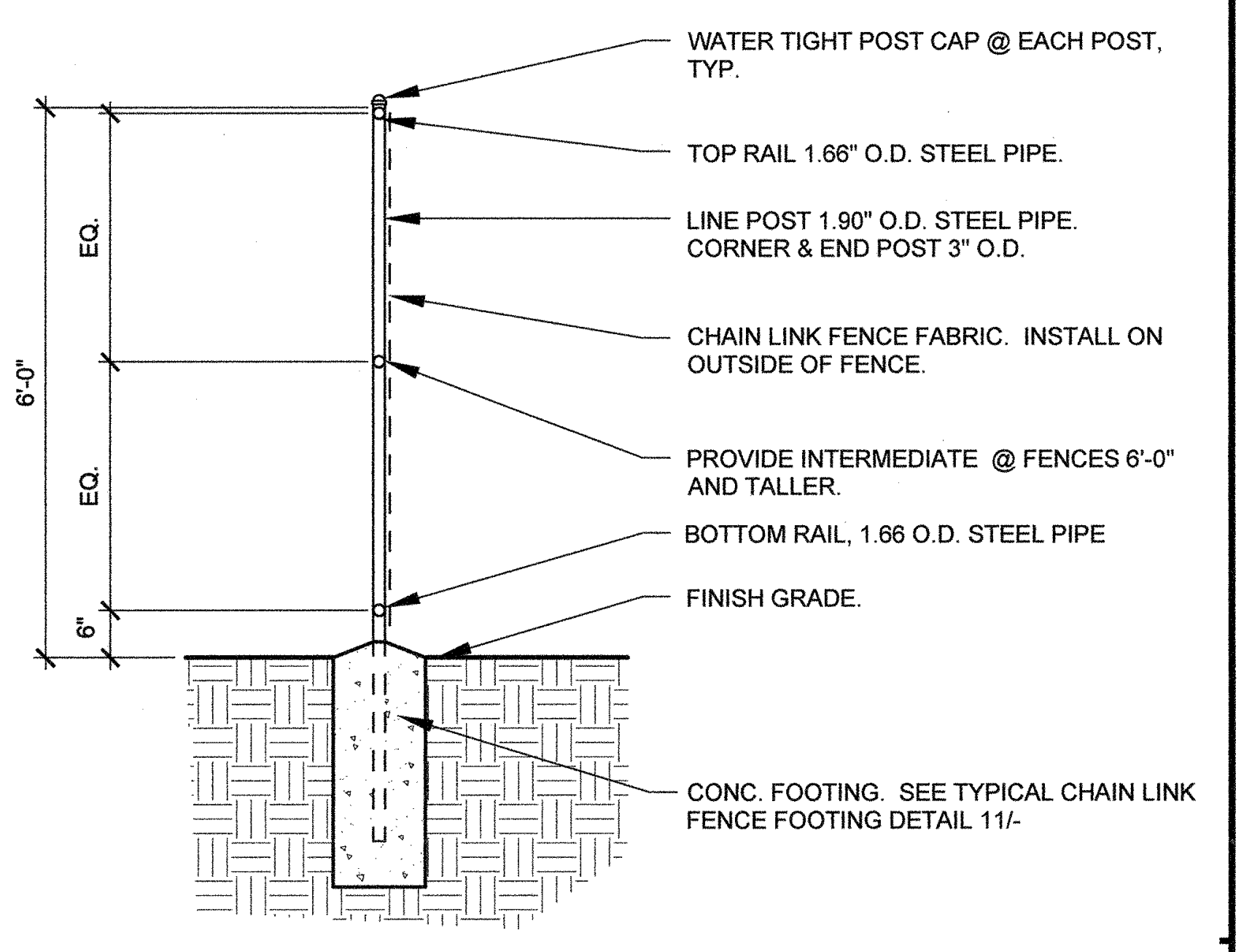
3 CHAIN LINK FENCE POST IN ASPHALT PAVING

2 CHAIN LINK FENCE POST IN CONCRETE PAVING

1 CHAIN LINK FENCE POST IN PLANTING AREA

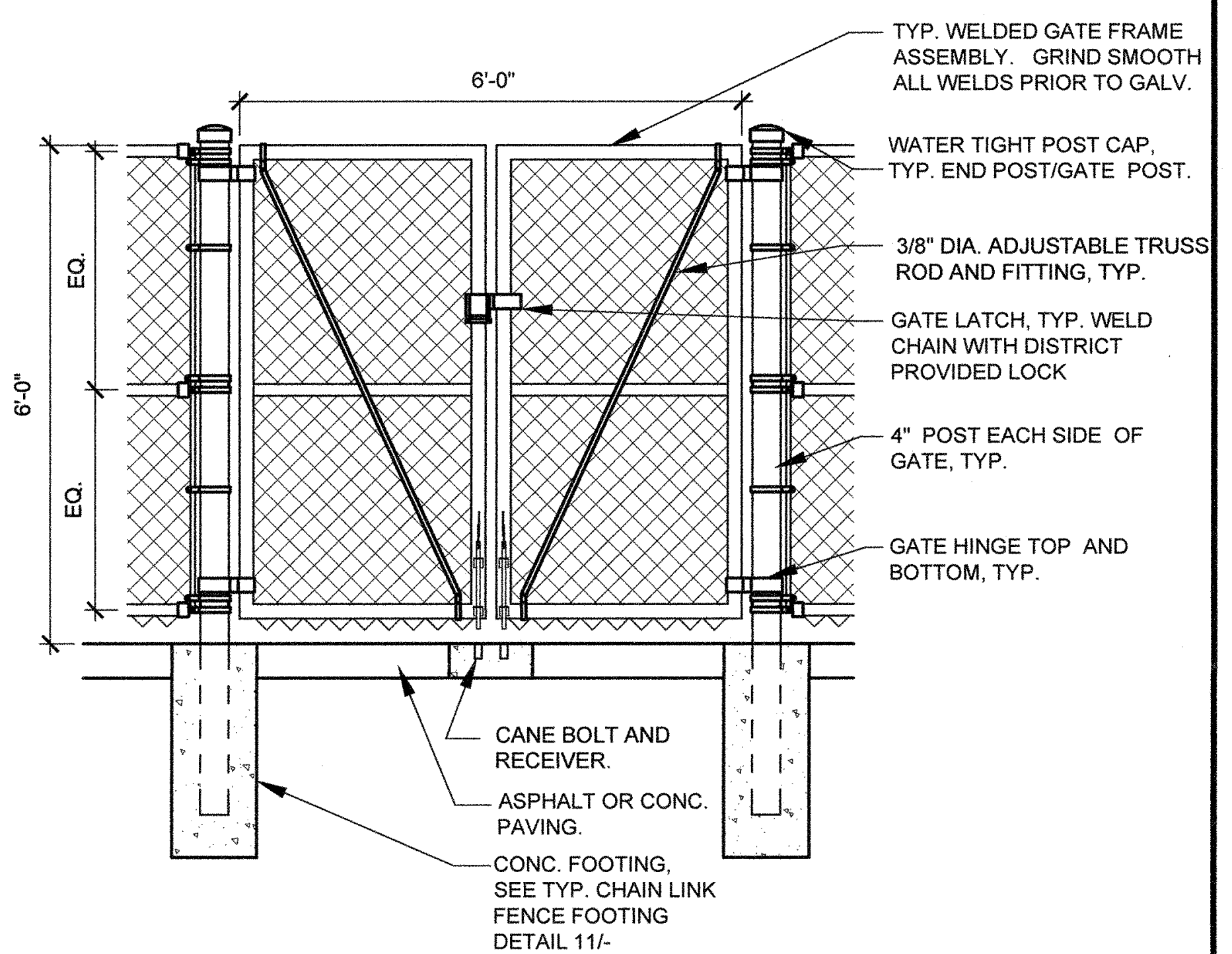
5 CHAIN LINK FENCE CONNECTIONS

1/2"=1'-0"


WATER TIGHT POST CAP @ EACH POST, TYP.
TOP RAIL 1.66" O.D. STEEL PIPE.
LINE POST 1.90" O.D. STEEL PIPE. CORNER & END POST 3" O.D.
CHAIN LINK FENCE FABRIC. INSTALL ON OUTSIDE OF FENCE.
PROVIDE INTERMEDIATE @ FENCES 6'-0" AND TALLER.
BOTTOM RAIL, 1.66 O.D. STEEL PIPE
FINISH GRADE.
CONC. FOOTING. SEE TYPICAL CHAIN LINK FENCE FOOTING DETAIL 11/-
6'-0"
EQ.
EQ.
6"

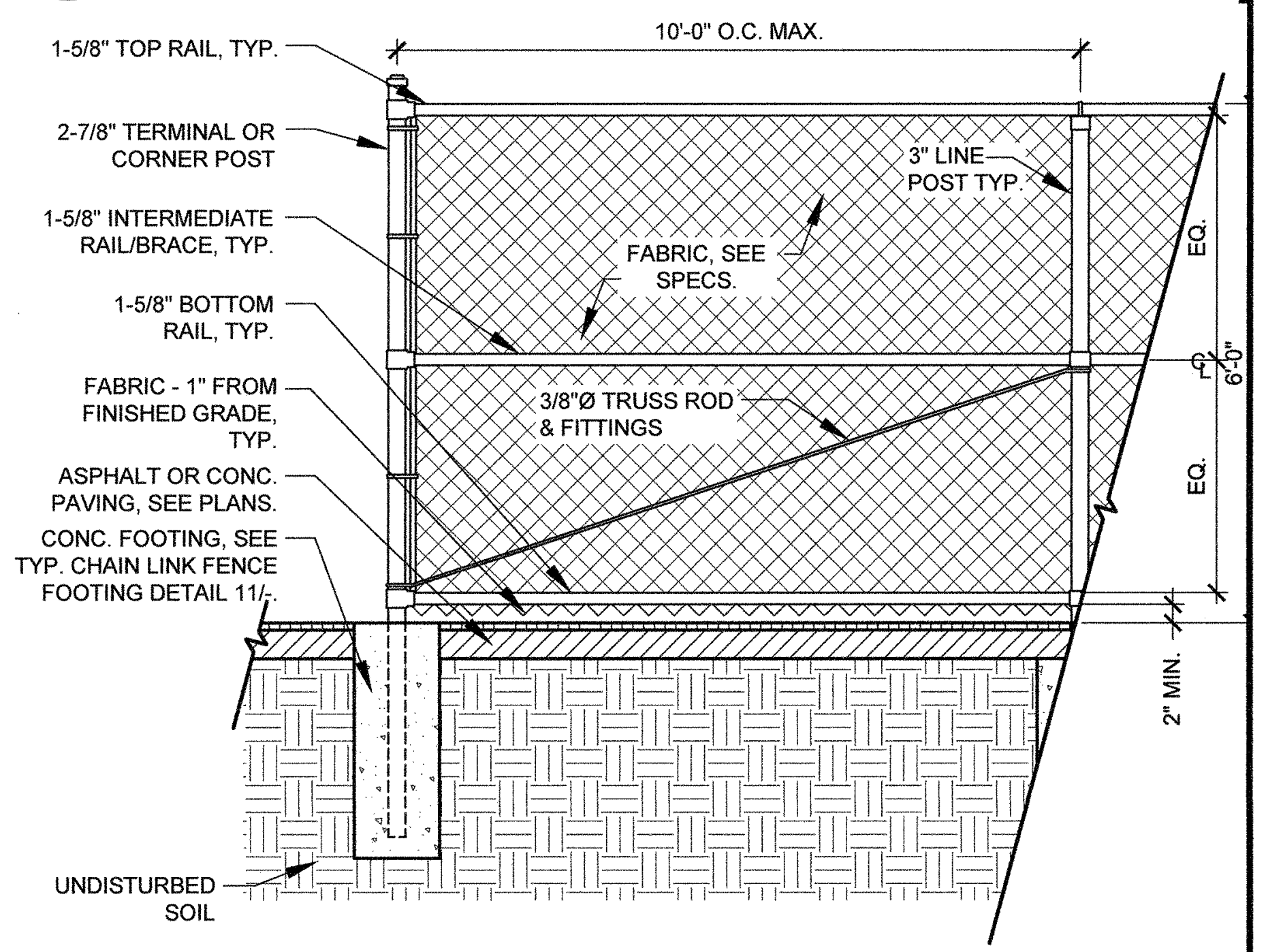
4 TYPICAL CHAIN LINK FENCE

SECTION 1/2"=1'-0"


6'-0"
TYP. WELDED GATE FRAME ASSEMBLY. GRIND SMOOTH ALL WELDS PRIOR TO GALV.
WATER TIGHT POST CAP, TYP. END POST/GATE POST.
3/8" DIA. ADJUSTABLE TRUSS ROD AND FITTING, TYP.
GATE LATCH, TYP. WELD CHAIN WITH DISTRICT PROVIDED LOCK
4" POST EACH SIDE OF GATE, TYP.
GATE HINGE TOP AND BOTTOM, TYP.
6'-0"
EQ.
EQ.
CANE BOLT AND RECEIVER.
ASPHALT OR CONC. PAVING.
CONC. FOOTING, SEE TYP. CHAIN LINK FENCE FOOTING DETAIL 11/-

3 CHAIN LINK DOUBLE GATE

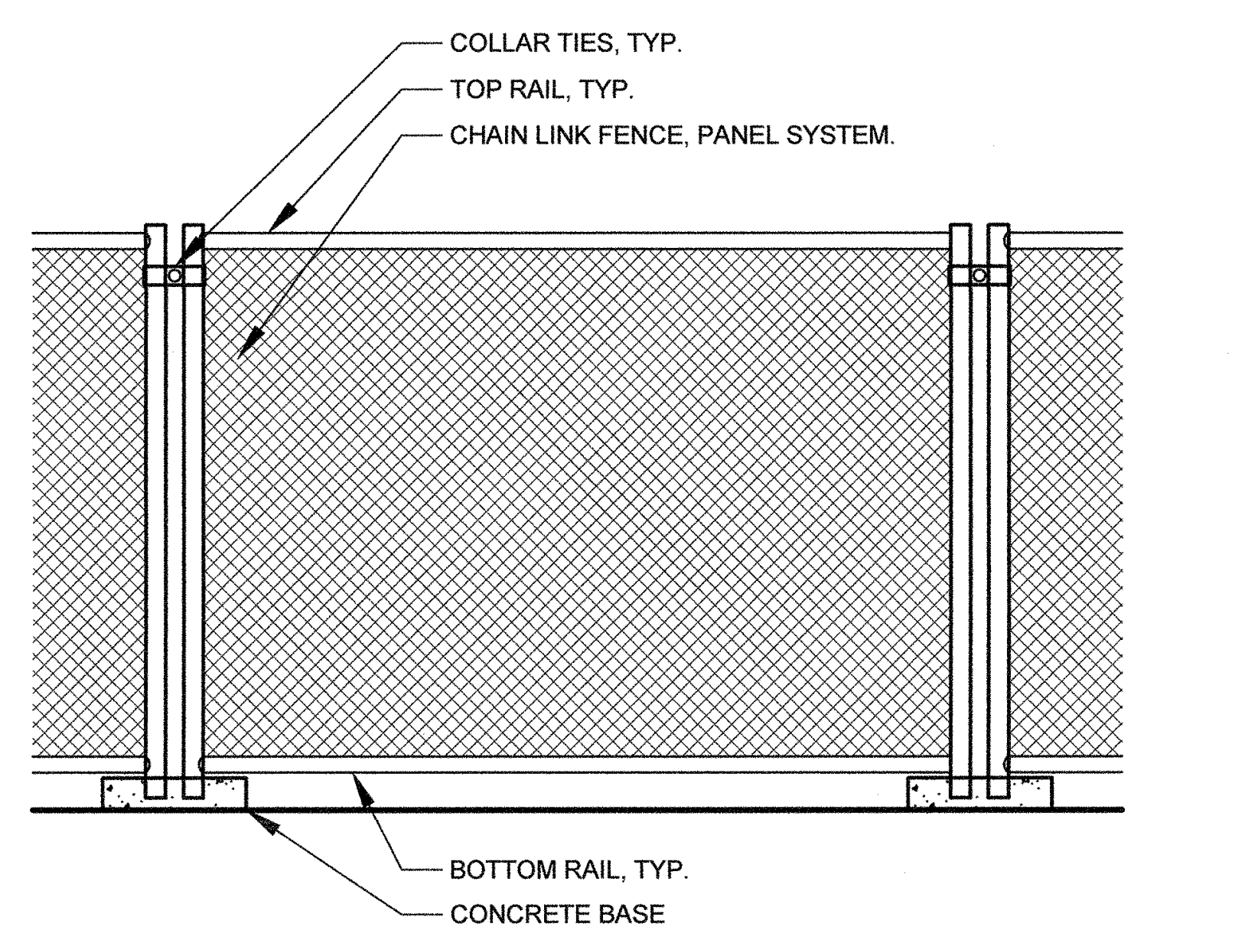
1/2"=1'-0"


10'-0" O.C. MAX.
1-5/8" TOP RAIL, TYP.
2-7/8" TERMINAL OR CORNER POST
1-5/8" INTERMEDIATE RAIL/BRACE, TYP.
1-5/8" BOTTOM RAIL, TYP.
FABRIC - 1" FROM FINISHED GRADE, TYP.
ASPHALT OR CONC. PAVING, SEE PLANS.
CONC. FOOTING, SEE TYP. CHAIN LINK FENCE FOOTING DETAIL 11/-.
3" LINE POST TYP.
FABRIC, SEE SPECS.
3/8"Ø TRUSS ROD & FITTINGS
EQ.
6'-0"
EQ.
2" MIN.
UNDISTURBED SOIL

NOTES:
1. FENCE FABRIC TO BE FLUSH W/ TOP OF TOP RAIL. FINISH TO BE KNUCKLED SALVAGE.
2. FENCE POSTS TO BE TRUE & LEVEL

2 TYPICAL CHAIN LINK FENCE

ELEVATION 1/2"=1'-0"



1 REQ'D TEMPORARY FENCING

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

SUGIMURA
FINNEY
ARCHITECTS
SFA
ARCHITECTURE INTERIORS PLANNING

2155 SOUTH BASCOM AVE.
SUITE 200
CAMPBELL, CA 95008
PHONE: 408-879-0600
FAX: 408-377-6066

LICENSED ARCHITECT
MARK C. FINNEY
NO. C-24673
REN. 9-30-19
STATE OF CALIFORNIA

SITE DETAILS

RUSSO-McENTEE ACADEMY- HVAC UPGRADES
2851 GAY AVE., SAN JOSE, CA 95127
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

REVISIONS

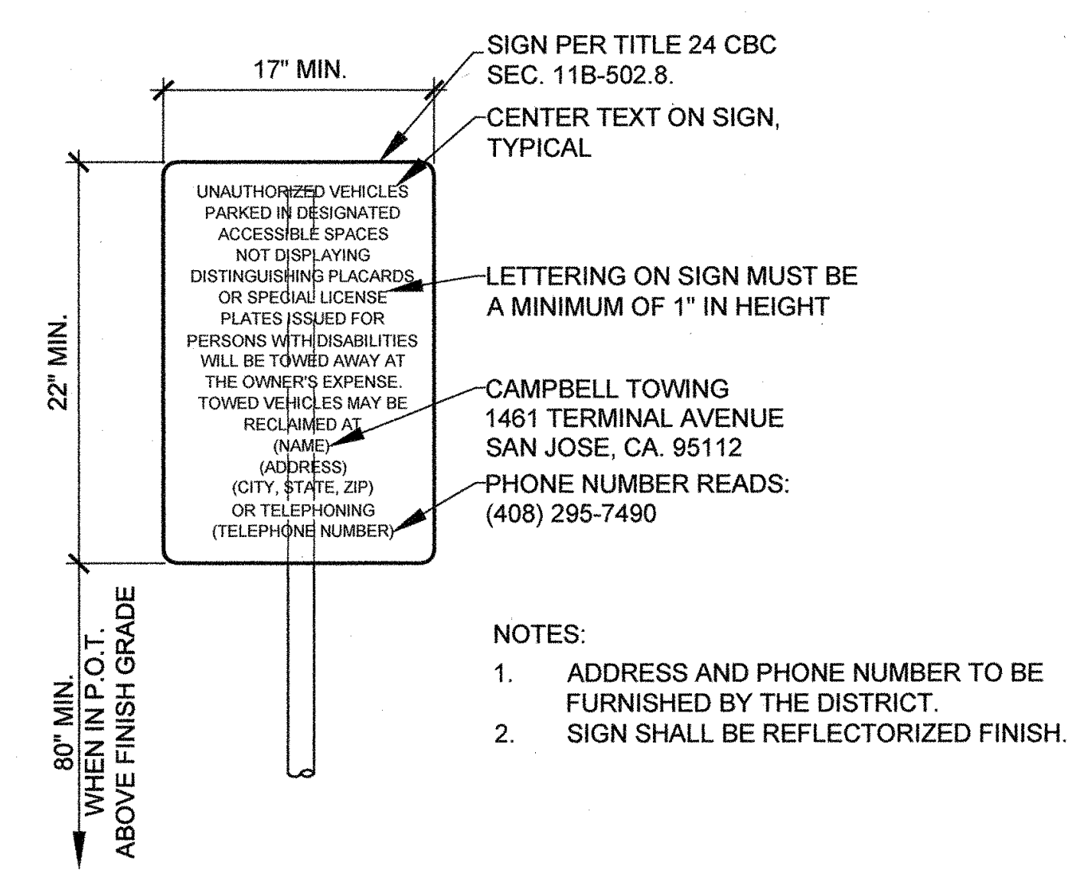
NO.	ITEM	DATE
	DD SUBMITTAL	12-8-17
	DSA SUBMITTAL	01-31-18
	BID SET	04-09-18
	DSA BACKCHECK	05-22-18

DSA FILE NUMBER 43-04

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL 01-117267
AC KG FLS MC SS
DATE MAY 22 2018

DRAWN BY: KU
CHECKED BY: -
JOB NO: 17116
DATE: 10/16/2017

A0.2

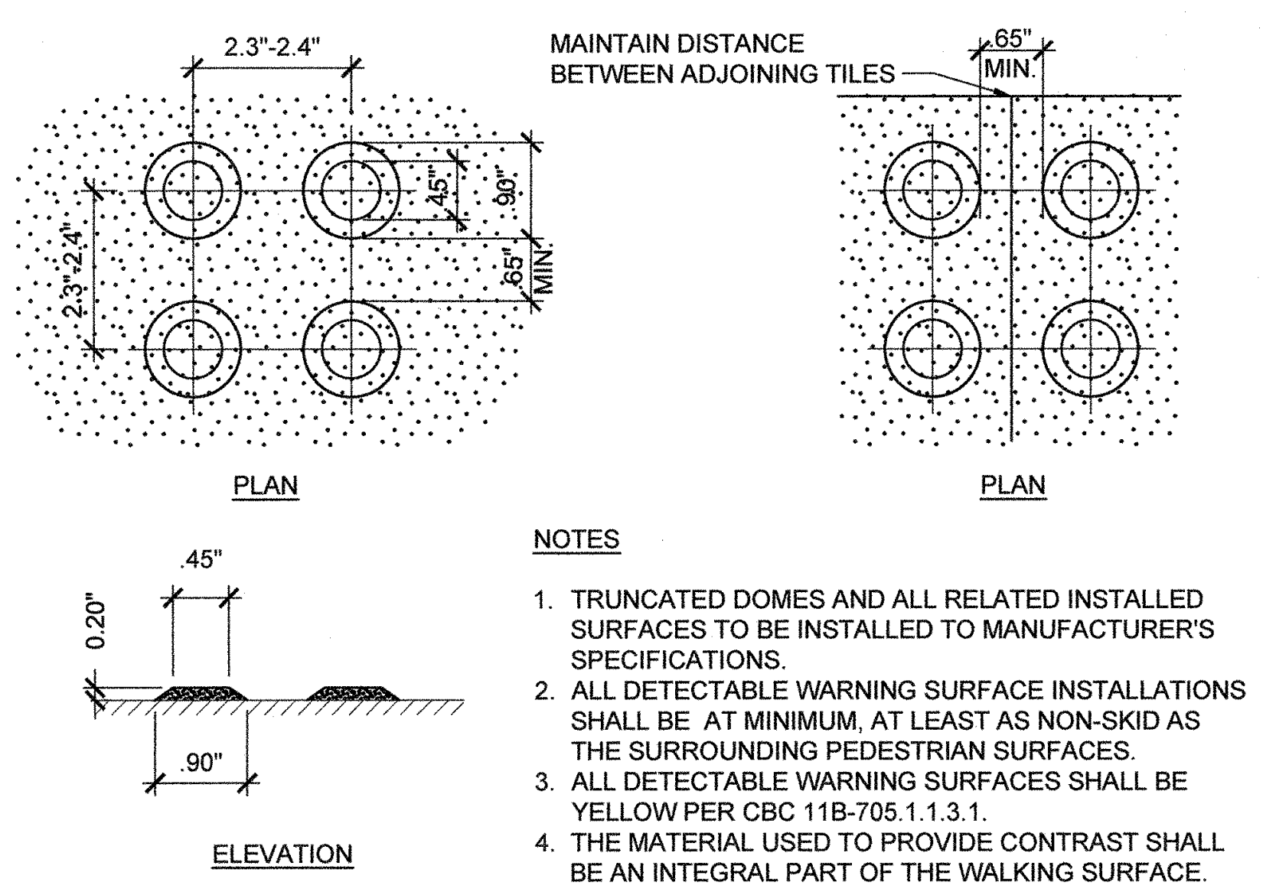

17" MIN.
22" MIN.
80" MIN. WHEN IN P.O.T. ABOVE FINISH GRADE
UNAUTHORIZED VEHICLES PARKED IN DESIGNATED ACCESSIBLE SPACES NOT DISPLAYING DISTINGUISHING PLACARDS OR SPECIAL LICENSE PLATES ISSUED FOR PERSONS WITH DISABILITIES WILL BE TOWED AWAY AT THE OWNER'S EXPENSE. TOWED VEHICLES MAY BE RECLAIMED AT (NAME) (ADDRESS) (CITY, STATE, ZIP) OR TELEPHONING (TELEPHONE NUMBER)
SIGN PER TITLE 24 CBC SEC. 11B-502.8.
CENTER TEXT ON SIGN, TYPICAL
LETTERING ON SIGN MUST BE A MINIMUM OF 1" IN HEIGHT
CAMPBELL TOWING 1461 TERMINAL AVENUE SAN JOSE, CA. 95112
PHONE NUMBER READS: (408) 295-7490

NOTES:

1. ADDRESS AND PHONE NUMBER TO BE FURNISHED BY THE DISTRICT.
2. SIGN SHALL BE REFLECTORIZED FINISH.

20 ENTRY WARNING SIGN

1"=1'-0"

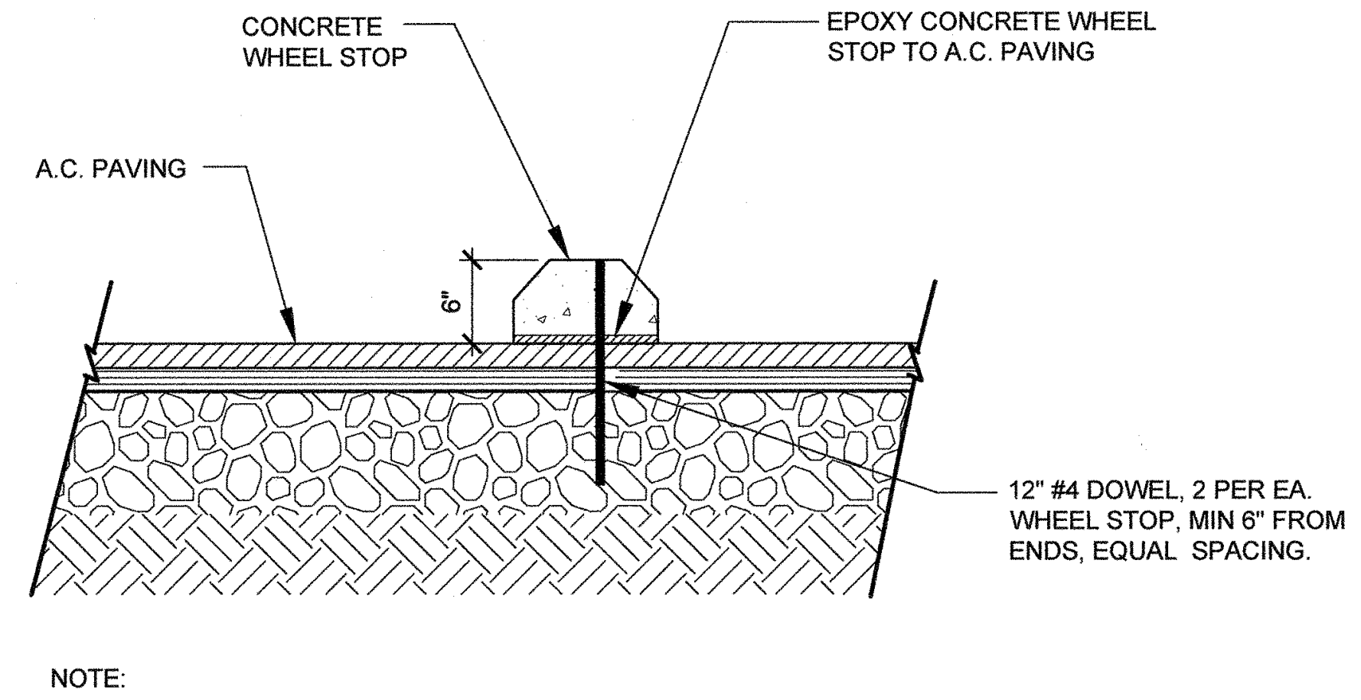


NOTES

1. TRUNCATED DOMES AND ALL RELATED INSTALLED SURFACES TO BE INSTALLED TO MANUFACTURER'S SPECIFICATIONS.
2. ALL DETECTABLE WARNING SURFACE INSTALLATIONS SHALL BE AT MINIMUM, AT LEAST AS NON-SKID AS THE SURROUNDING PEDESTRIAN SURFACES.
3. ALL DETECTABLE WARNING SURFACES SHALL BE YELLOW PER CBC 11B-705.1.1.3.1.
4. THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE.
5. REFER TO CBC SEC. 11B-705 FOR MORE INFORMATION.

16 TRUNCATED DOMES

1/2"=1'-0"

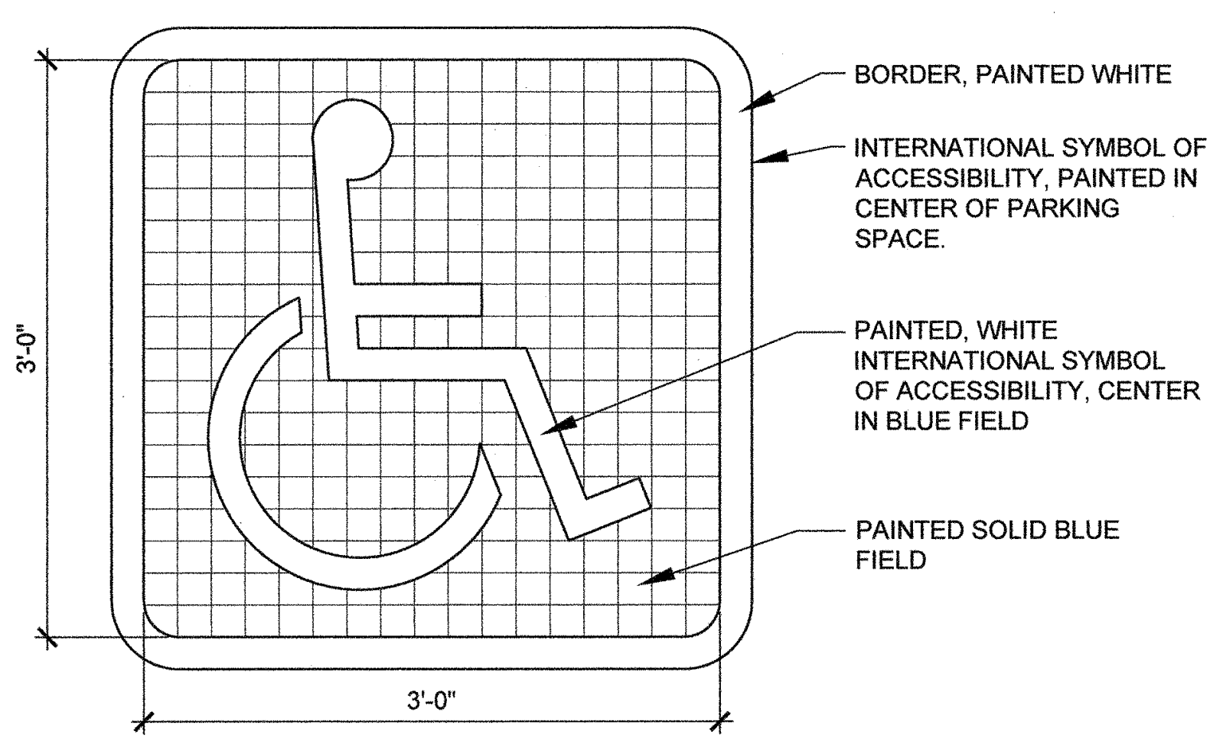

CONCRETE WHEEL STOP
EPOXY CONCRETE WHEEL STOP TO A.C. PAVING
A.C. PAVING
6"
12" #4 DOWEL, 2 PER EA. WHEEL STOP, MIN 6" FROM ENDS, EQUAL SPACING.

NOTE:

1. REFER TO SPECIFICATIONS FOR ADDITIONAL INFO. ON WHEEL STOP & EPOXY.

12 WHEEL STOP

1"=1'-0"

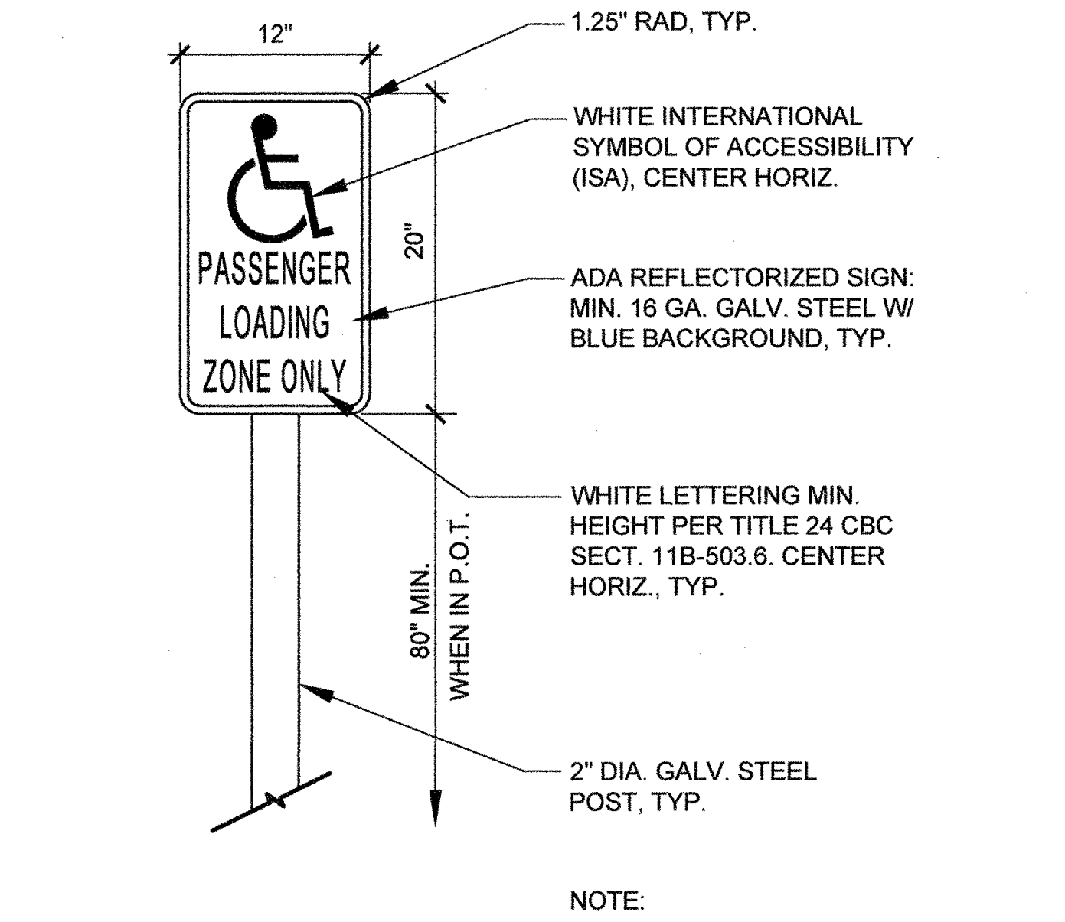

3'-0"
3'-0"
BORDER, PAINTED WHITE
INTERNATIONAL SYMBOL OF ACCESSIBILITY, PAINTED IN CENTER OF PARKING SPACE.
PAINTED, WHITE INTERNATIONAL SYMBOL OF ACCESSIBILITY, CENTER IN BLUE FIELD
PAINTED SOLID BLUE FIELD

NOTES:

1. GRID LINES ARE SHOWN FOR PROPORTION ONLY AND ARE NOT TO APPEAR AS PART OF SYMBOL.
2. DA SIGNAGE SHALL COMPLY WITH THE CALIFORNIA BUILDING CODE.
3. SYMBOL SHALL BE LOCATED SO THAT IT IS VISIBLE TO A TRAFFIC ENFORCEMENT OFFICER WHEN A VEHICLE IS PARKED IN THE SPACE.
4. PAINT TO BE TRAFFIC PAINT
5. SYMBOL PROPORTIONS SHALL MATCH CBC FIGURE 11B-703.7.2.1.

8 INTERNATIONAL SYMBOL FOR
ACCESSIBILITY (I.S.A.)

1"=1'-0"

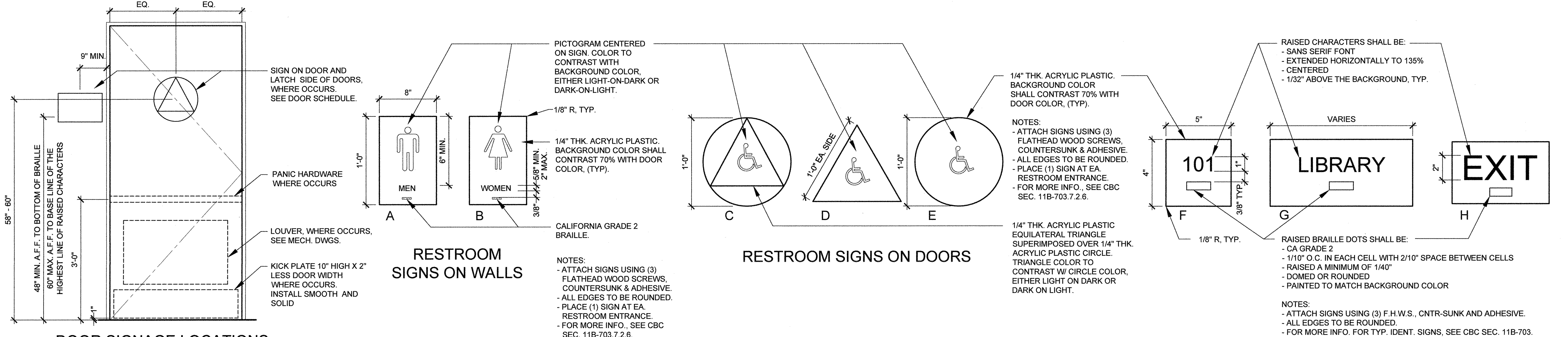

12"
20"
PASSENGER LOADING ZONE ONLY
80" MIN. WHEN IN P.O.T.
1.25" RAD, TYP.
WHITE INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA), CENTER HORIZ.
ADA REFLECTORIZED SIGN: MIN. 16 GA. GALV. STEEL W/ BLUE BACKGROUND, TYP.
WHITE LETTERING MIN. HEIGHT PER TITLE 24 CBC SECT. 11B-503.6. CENTER HORIZ., TYP.
2" DIA. GALV. STEEL POST, TYP.

NOTE:

1. FOOTING & ATTACHMENT PER DETAIL 17/-.

19 PASSENGER LOADING ZONE SIGN
ELEVATION

1"=1'-0"


EQ.
EQ.
9" MIN.
58" - 60"
48" MIN. A.F.F. TO BOTTOM OF BRAILLE
60" MAX. A.F.F. TO BASE LINE OF THE HIGHEST LINE OF RAISED CHARACTERS
3'-0"
1"
SIGN ON DOOR AND LATCH SIDE OF DOORS, WHERE OCCURS. SEE DOOR SCHEDULE.
PANIC HARDWARE WHERE OCCURS
LOUVER, WHERE OCCURS, SEE MECH. DWGS.
KICK PLATE 10" HIGH X 2" LESS DOOR WIDTH WHERE OCCURS. INSTALL SMOOTH AND SOLID
8"
1'-0"
6" MIN.
5/8" MIN. 2" MAX.
3/8"
MEN
WOMEN
A
B
PICTOGRAM CENTERED ON SIGN. COLOR TO CONTRAST WITH BACKGROUND COLOR, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT.
1/8" R, TYP.
1/4" THK. ACRYLIC PLASTIC. BACKGROUND COLOR SHALL CONTRAST 70% WITH DOOR COLOR, (TYP).
CALIFORNIA GRADE 2 BRAILLE.
1'-0"
1'-0" EA. SIDE
1'-0"
C
D
E
1/4" THK. ACRYLIC PLASTIC. BACKGROUND COLOR SHALL CONTRAST 70% WITH DOOR COLOR, (TYP).
1/4" THK. ACRYLIC PLASTIC EQUILATERAL TRIANGLE SUPERIMPOSED OVER 1/4" THK. ACRYLIC PLASTIC CIRCLE. TRIANGLE COLOR TO CONTRAST W/ CIRCLE COLOR, EITHER LIGHT ON DARK OR DARK ON LIGHT.
RAISED CHARACTERS SHALL BE:
- SANS SERIF FONT
- EXTENDED HORIZONTALLY TO 135%
- CENTERED
- 1/32" ABOVE THE BACKGROUND, TYP.
5"
4"
1"
3/8" TYP.
101
VARIES
LIBRARY
2"
EXIT
F
G
H
1/8" R, TYP.

DOOR SIGNAGE LOCATIONS

RESTROOM SIGNS ON WALLS

NOTES:
- ATTACH SIGNS USING (3) FLATHEAD WOOD SCREWS, COUNTERSUNK & ADHESIVE.
- ALL EDGES TO BE ROUNDED.
- PLACE (1) SIGN AT EA. RESTROOM ENTRANCE.
- FOR MORE INFO., SEE CBC SEC. 11B-703.7.2.6.

NOTE:
- SIGNS AND IDENTIFICATION REQUIRED BY SECTION 11B-703 AND 1011.4 OF THE CBC SHALL BE INSPECTED PER CBC 11B-703.2.5.

RESTROOM SIGNS ON DOORS

NOTES:
- ATTACH SIGNS USING (3) FLATHEAD WOOD SCREWS, COUNTERSUNK & ADHESIVE.
- ALL EDGES TO BE ROUNDED.
- PLACE (1) SIGN AT EA. RESTROOM ENTRANCE.
- FOR MORE INFO., SEE CBC SEC. 11B-703.7.2.6.

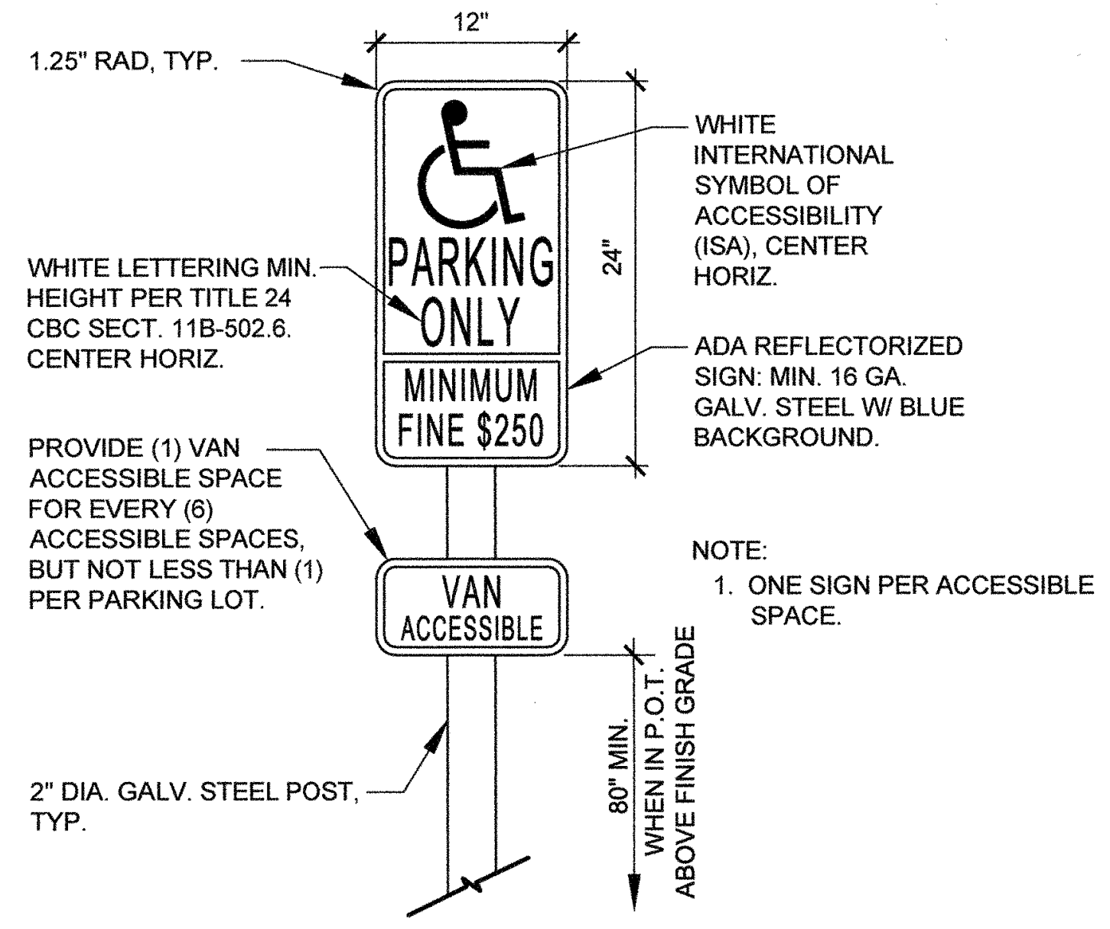
RAISED BRAILLE DOTS SHALL BE:
- CA GRADE 2
- 1/10" O.C. IN EACH CELL WITH 2/10" SPACE BETWEEN CELLS
- RAISED A MINIMUM OF 1/40"
- DOMED OR ROUNDED
- PAINTED TO MATCH BACKGROUND COLOR

NOTES:
- ATTACH SIGNS USING (3) F.H.W.S., CNTR-SUNK AND ADHESIVE.
- ALL EDGES TO BE ROUNDED.
- FOR MORE INFO. FOR TYP. IDENT. SIGNS, SEE CBC SEC. 11B-703.
- FOR MORE INFO. FOR EXIT SIGNS, SEE CBC SEC. 1011.4.
- ALL EDGES TO BE ROUNDED.

IDENTIFICATION SIGNS ON WALLS

15 TYPICAL SIGNAGE

N.T.S.

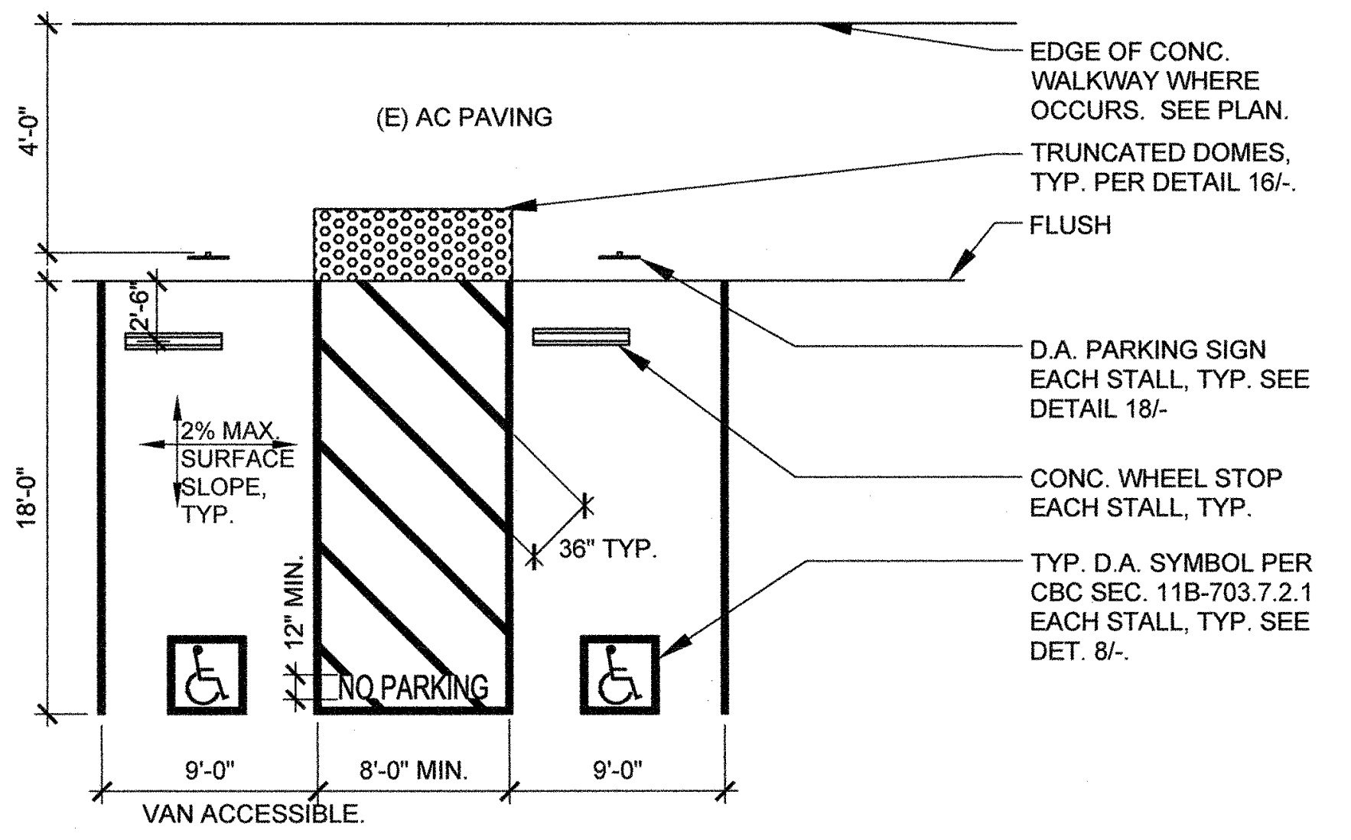

12"
24"
PARKING ONLY
MINIMUM FINE $250
VAN ACCESSIBLE
80" MIN. WHEN IN P.O.T. ABOVE FINISH GRADE
1.25" RAD, TYP.
WHITE INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA), CENTER HORIZ.
WHITE LETTERING MIN. HEIGHT PER TITLE 24 CBC SECT. 11B-502.6. CENTER HORIZ.
ADA REFLECTORIZED SIGN: MIN. 16 GA. GALV. STEEL W/ BLUE BACKGROUND.
PROVIDE (1) VAN ACCESSIBLE SPACE FOR EVERY (6) ACCESSIBLE SPACES, BUT NOT LESS THAN (1) PER PARKING LOT.
2" DIA. GALV. STEEL POST, TYP.

NOTE:

1. ONE SIGN PER ACCESSIBLE SPACE.

18 ACCESSIBLE PARKING SIGN
ELEVATION

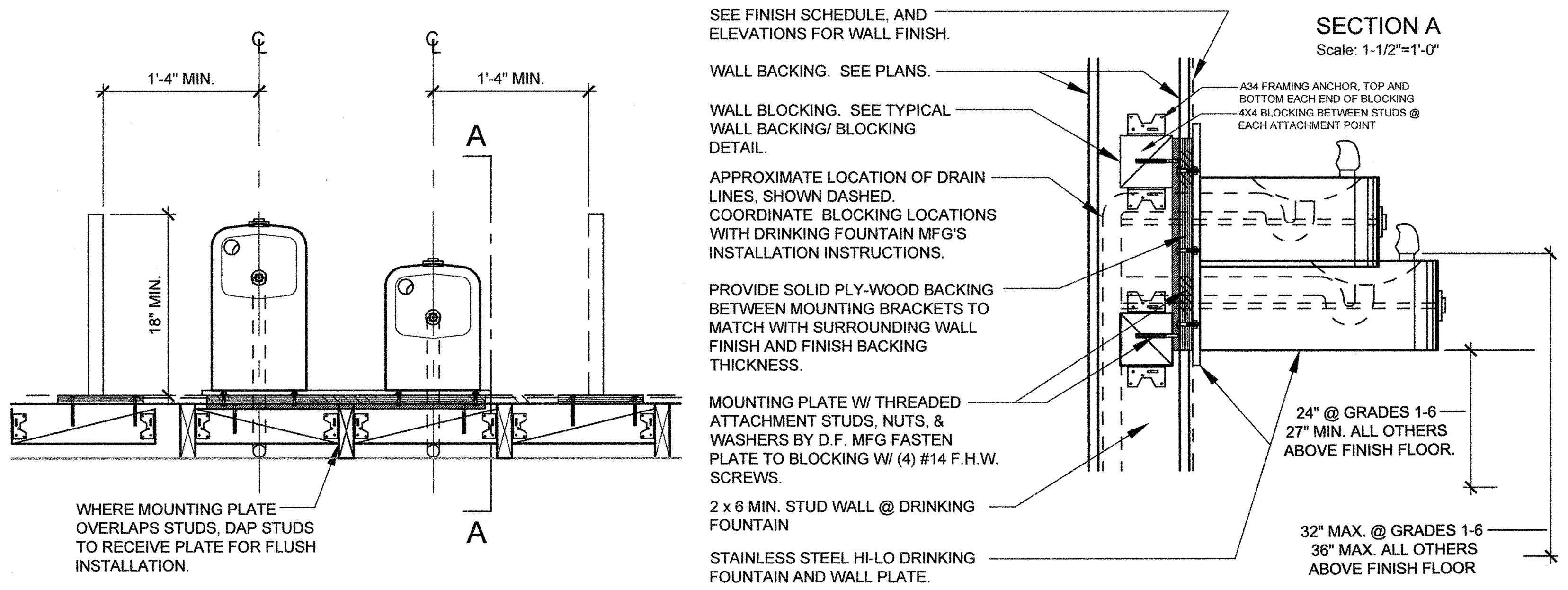
1"=1'-0"


4'-0"
18'-0"
(E) AC PAVING
2'-6"
2% MAX. SURFACE SLOPE, TYP.
12" MIN.
36" TYP.
NO PARKING
9'-0"
8'-0" MIN.
9'-0"
VAN ACCESSIBLE.
EDGE OF CONC. WALKWAY WHERE OCCURS. SEE PLAN.
TRUNCATED DOMES, TYP. PER DETAIL 16/-.
FLUSH
D.A. PARKING SIGN EACH STALL, TYP. SEE DETAIL 18/-
CONC. WHEEL STOP EACH STALL, TYP.
TYP. D.A. SYMBOL PER CBC SEC. 11B-703.7.2.1 EACH STALL, TYP. SEE DET. 8/-.

NOTE:
THE BORDER OF LOADING AND UNLOADING ACCESS AISLES SHALL BE PAINTED BLUE. THE HATCHING WITHIN SHALL BE PAINTED A SUITABLE CONTRASTING COLOR TO THE PARKING SPACE AT 3'-0" MAX. ON CENTER. BLUE OR WHITE PAINT IS PREFERRED. "NO PARKING" LETTERS TO BE WHITE.

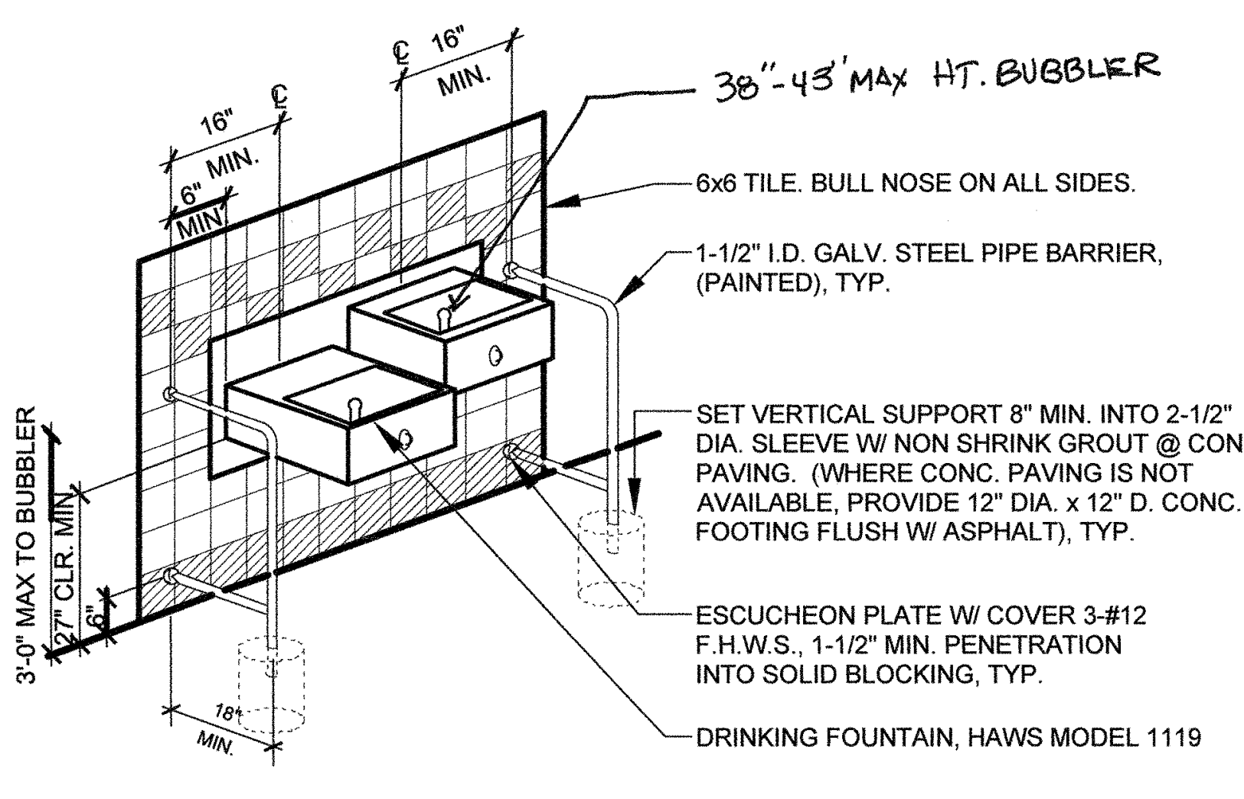
14 ACCESSIBLE PARKING STALLS

1/8"=1'-0"


℄
℄
1'-4" MIN.
1'-4" MIN.
18" MIN.
A
A
WHERE MOUNTING PLATE OVERLAPS STUDS, DAP STUDS TO RECEIVE PLATE FOR FLUSH INSTALLATION.
SEE FINISH SCHEDULE, AND ELEVATIONS FOR WALL FINISH.
WALL BACKING. SEE PLANS.
WALL BLOCKING. SEE TYPICAL WALL BACKING/ BLOCKING DETAIL.
APPROXIMATE LOCATION OF DRAIN LINES, SHOWN DASHED. COORDINATE BLOCKING LOCATIONS WITH DRINKING FOUNTAIN MFG'S INSTALLATION INSTRUCTIONS.
PROVIDE SOLID PLY-WOOD BACKING BETWEEN MOUNTING BRACKETS TO MATCH WITH SURROUNDING WALL FINISH AND FINISH BACKING THICKNESS.
MOUNTING PLATE W/ THREADED ATTACHMENT STUDS, NUTS, & WASHERS BY D.F. MFG FASTEN PLATE TO BLOCKING W/ (4) #14 F.H.W. SCREWS.
2 x 6 MIN. STUD WALL @ DRINKING FOUNTAIN
STAINLESS STEEL HI-LO DRINKING FOUNTAIN AND WALL PLATE.
SECTION A
Scale: 1-1/2"=1'-0"
A34 FRAMING ANCHOR, TOP AND BOTTOM EACH END OF BLOCKING
4X4 BLOCKING BETWEEN STUDS @ EACH ATTACHMENT POINT
24" @ GRADES 1-6 27" MIN. ALL OTHERS ABOVE FINISH FLOOR.
32" MAX. @ GRADES 1-6 36" MAX. ALL OTHERS ABOVE FINISH FLOOR

10 HI-LO DRINKING FOUNTAIN ANCHORAGE

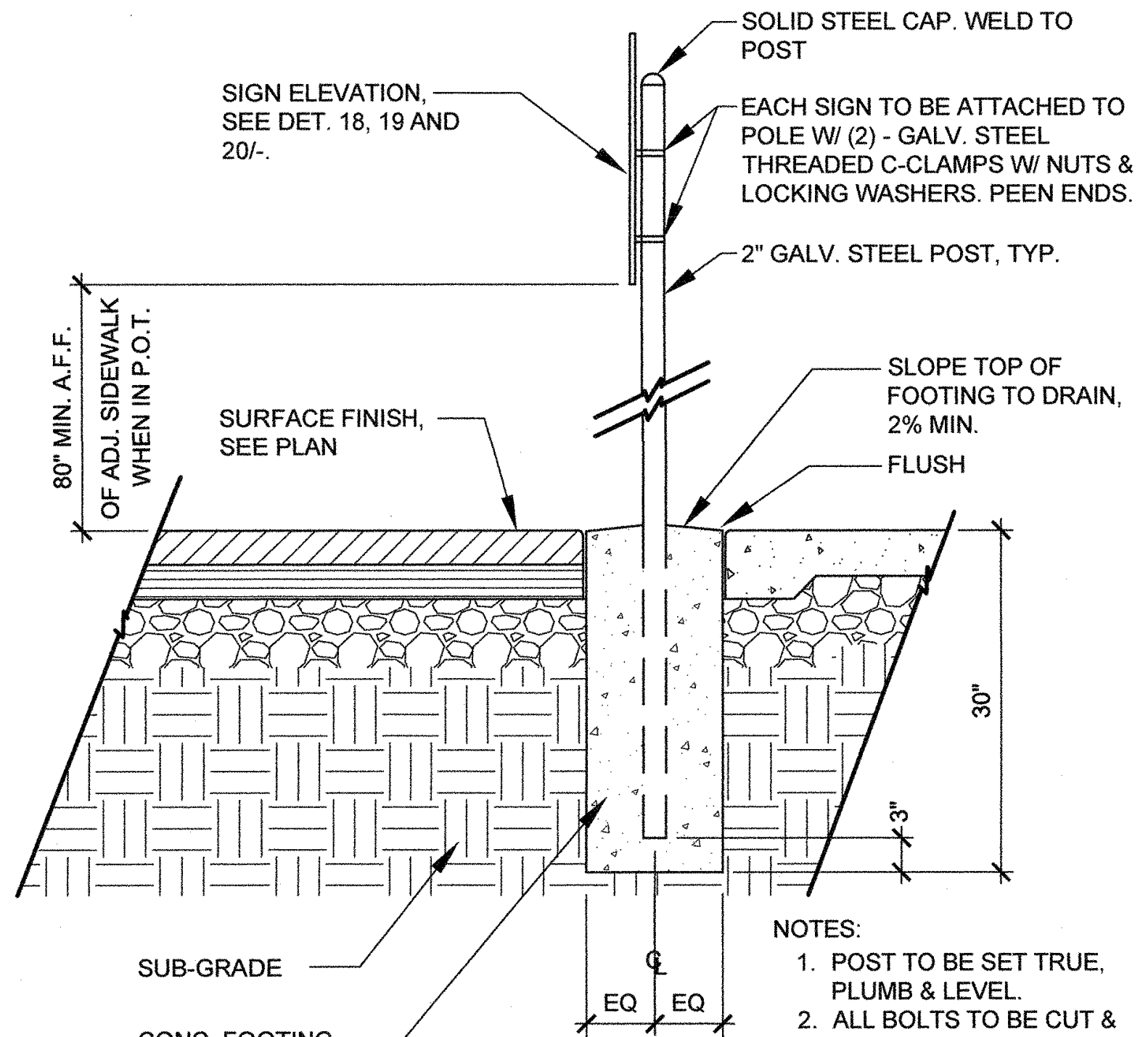
1"=1'-0"


38"-43' MAX HT. BUBBLER
℄ 16" MIN.
16" MIN. ℄
6" MIN
3'-0" MAX TO BUBBLER
27" CLR. MIN
6"
18" MIN.
6x6 TILE. BULL NOSE ON ALL SIDES.
1-1/2" I.D. GALV. STEEL PIPE BARRIER, (PAINTED), TYP.
SET VERTICAL SUPPORT 8" MIN. INTO 2-1/2" DIA. SLEEVE W/ NON SHRINK GROUT @ CONC. PAVING. (WHERE CONC. PAVING IS NOT AVAILABLE, PROVIDE 12" DIA. x 12" D. CONC. FOOTING FLUSH W/ ASPHALT), TYP.
ESCUCHEON PLATE W/ COVER 3-#12 F.H.W.S., 1-1/2" MIN. PENETRATION INTO SOLID BLOCKING, TYP.
DRINKING FOUNTAIN, HAWS MODEL 1119

NOTE: REMOVE (E) FINISH AND SHEATHING TO PROVIDE BACKING AND BLOCKING AS PER 10/-. PATCH AS REQUIRED. FINISH TO MATCH (E) U.O.N.

2 DRINKING FOUNTAIN

NTS

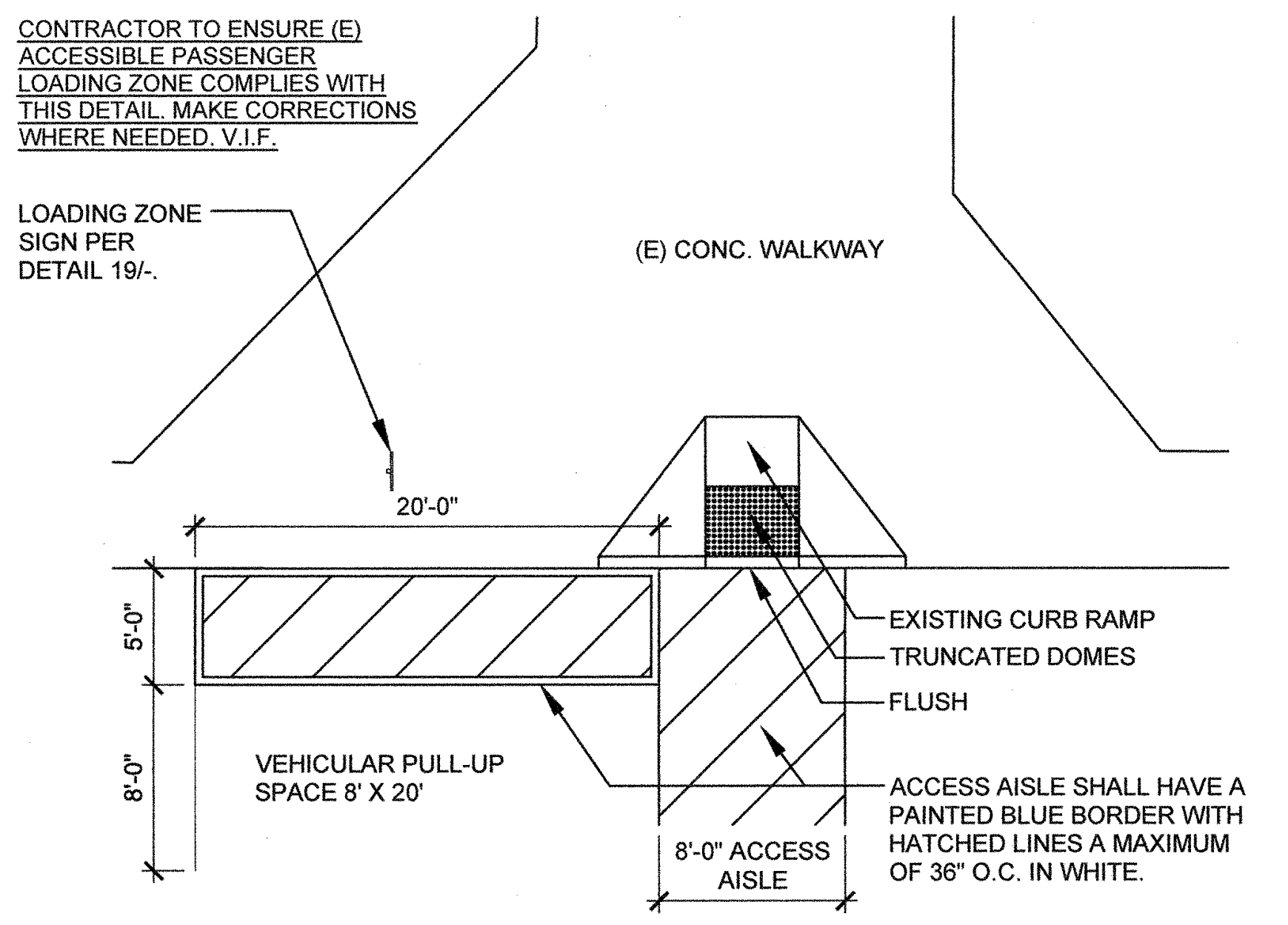

SOLID STEEL CAP. WELD TO POST
SIGN ELEVATION, SEE DET. 18, 19 AND 20/-.
EACH SIGN TO BE ATTACHED TO POLE W/ (2) - GALV. STEEL THREADED C-CLAMPS W/ NUTS & LOCKING WASHERS. PEEN ENDS.
2" GALV. STEEL POST, TYP.
80" MIN. A.F.F. OF ADJ. SIDEWALK WHEN IN P.O.T.
SURFACE FINISH, SEE PLAN
SLOPE TOP OF FOOTING TO DRAIN, 2% MIN.
FLUSH
30"
3"
SUB-GRADE
CONC. FOOTING
℄
EQ
EQ
12"

NOTES:

1. POST TO BE SET TRUE, PLUMB & LEVEL.
2. ALL BOLTS TO BE CUT & PEENED.

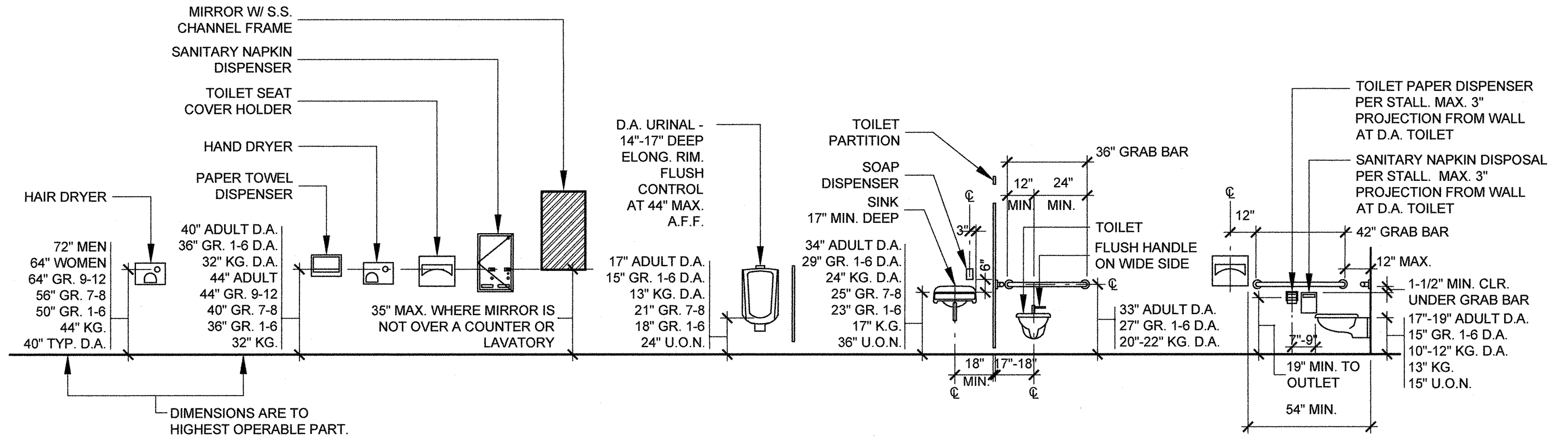
17 ACCESSIBLE PARKING SIGN
SECTION

3/4"=1'-0"


CONTRACTOR TO ENSURE (E) ACCESSIBLE PASSENGER LOADING ZONE COMPLIES WITH THIS DETAIL. MAKE CORRECTIONS WHERE NEEDED. V.I.F.
LOADING ZONE SIGN PER DETAIL 19/-.
(E) CONC. WALKWAY
20'-0"
5'-0"
8'-0"
VEHICULAR PULL-UP SPACE 8' X 20'
8'-0" ACCESS AISLE
EXISTING CURB RAMP
TRUNCATED DOMES
FLUSH
ACCESS AISLE SHALL HAVE A PAINTED BLUE BORDER WITH HATCHED LINES A MAXIMUM OF 36" O.C. IN WHITE.

13 PASSENGER LOADING ZONE

1/8"=1'-0"



ACCESSIBILE MOUNTING HEIGHTS

A = ADULT DIMENSIONS (AGE 12 AND OVER)
E = ELEMENTARY DIMENSIONS
K = KINDERGARTEN AND PRE-SCHOOL DIMENSIONS

DIMENSION	A (Inches)	E (Inches)	K (Inches)
Toilet centering from wall	18	15	12
Toilet seat height	17 - 19	15	10 - 12
Grab bar height (side)	33	27	20 - 22
Toilet Paper in front of Toilet	7 - 9 ℄	6 max.	6 max.
Napkin disposal in front of toilet	12 max.	12 max.	N/A
Dispenser or mirror height	40 max.	36 max.	32 max.
Lavatory/sink top height	34 max.	29 max.	24 max.
Lavatory/sink knee clearance	27 min.	24 min.	19 min.
Urinal lip height	17 max.	15 max.	13 min.
Urinal flush handle height	44 max.	37 max.	32 max.
Drinking fountain bubbler height	36 max.	32 max.	30 max.
Drinking fountain knee clearance	27 min.	24 min.	22 min.

9 TYPICAL FIXTURE MOUNTING HEIGHTS

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

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CAMPBELL, CA 95008
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FAX: 408-377-6066

LICENSED ARCHITECT
MARK C. FINNEY
NO. C-24673
REN. 9-30-19
STATE OF CALIFORNIA

SITE DETAILS

RUSSO-McENTEE ACADEMY- HVAC UPGRADES
2851 GAY AVE., SAN JOSE, CA 95127
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

REVISIONS

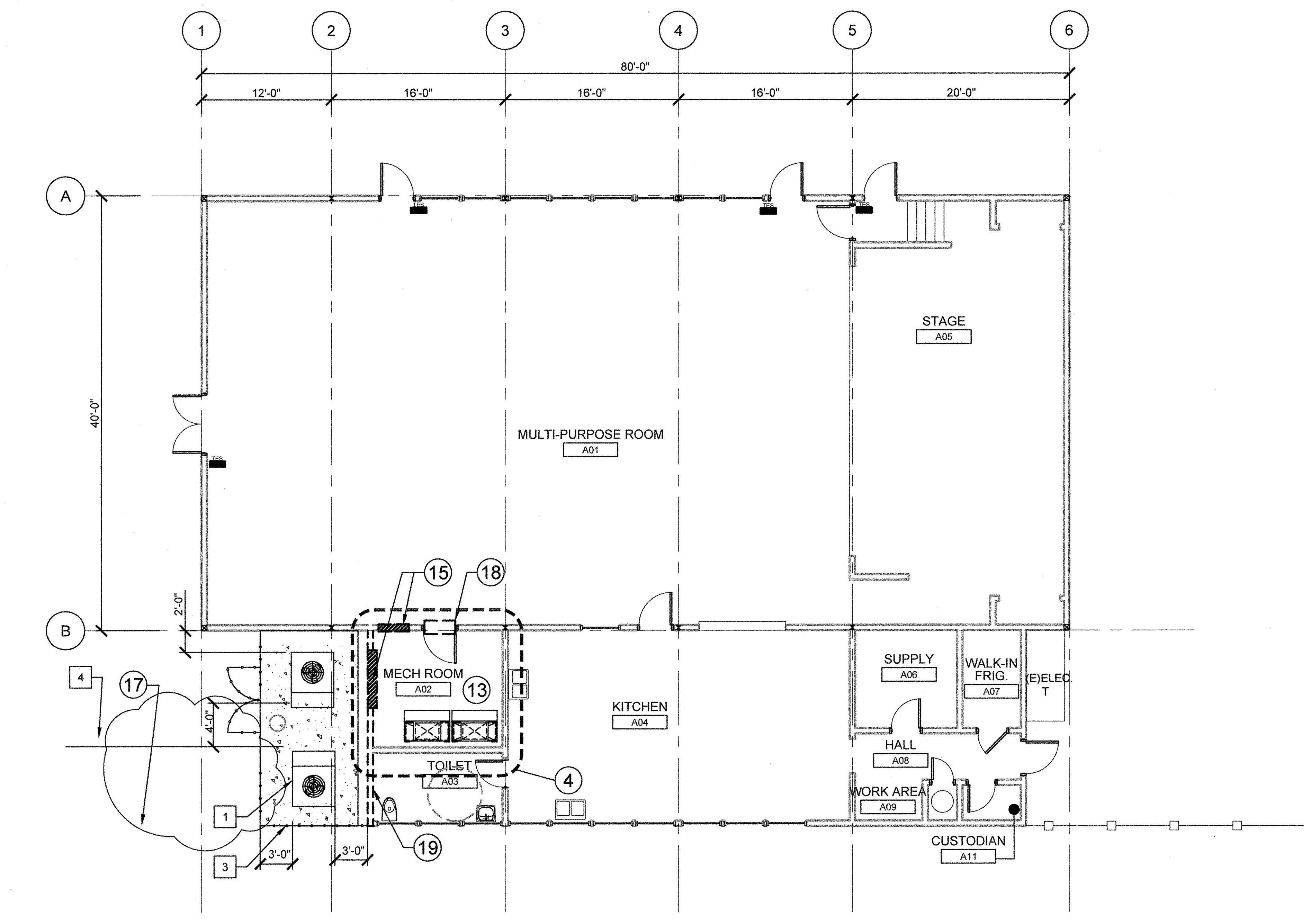
NO.	ITEM	DATE
	DD SUBMITTAL	12-8-17
	DSA SUBMITTAL	01-31-18
	BID SET	04-09-18
	DSA BACKCHECK	05-22-18

DSA FILE NUMBER 43-04

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL 01-117267
AC KG FLS MF SS
DATE MAY 2 2 2018

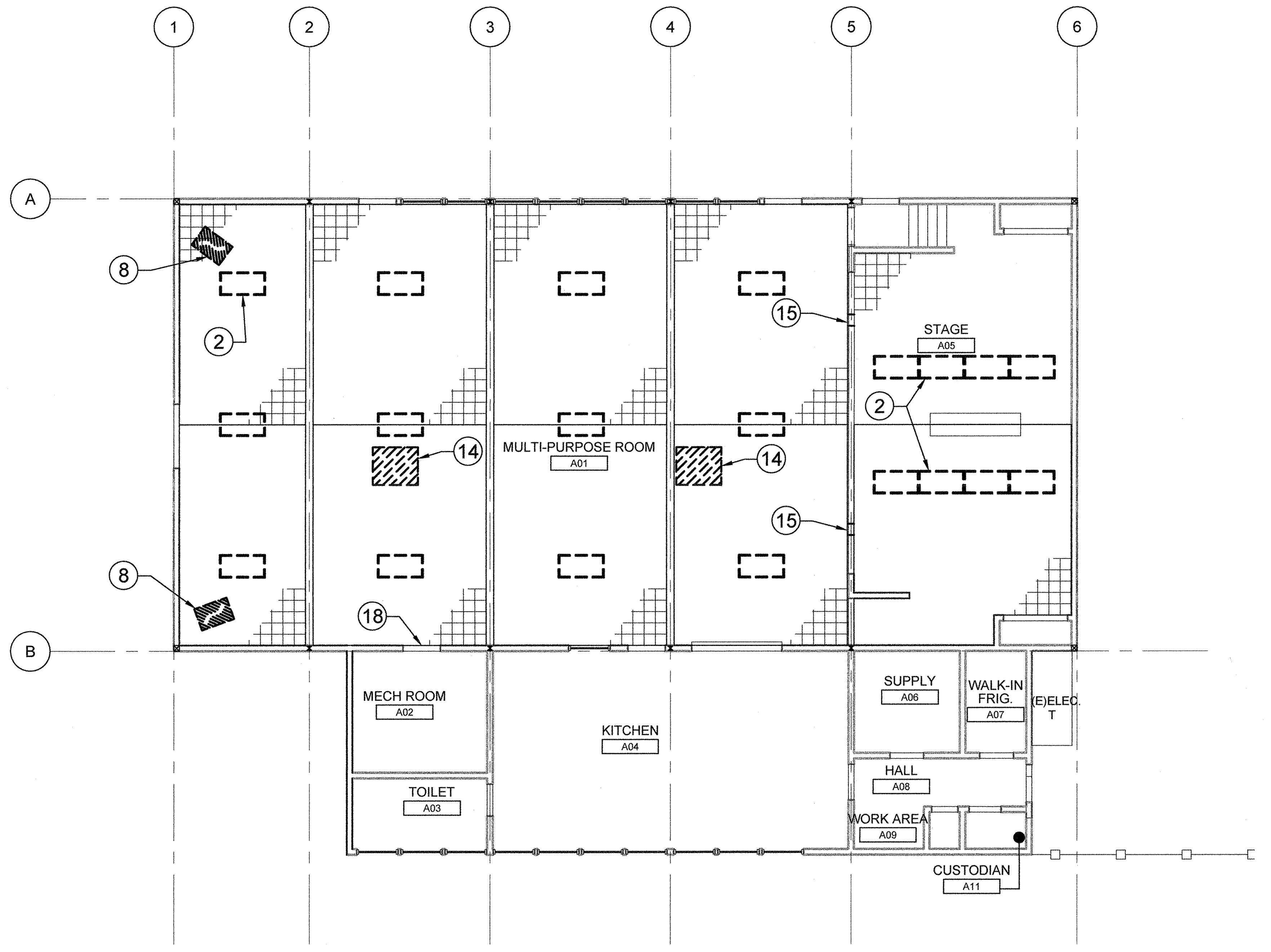
DRAWN BY: KU
CHECKED BY: -
JOB NO: 17116
DATE: 10/16/2017

A0.3



1 DEMOLITION AND NEW FLOOR PLAN - MULTI-PURPOSE BUILDING

1/8" = 1'-0"   0 2' 4' 8' 16' 24'   REF NORTH   TRUE NORTH



2 DEMOLITION CEILING PLAN - MULTI-PURPOSE BUILDING

1/8" = 1'-0"   0 2' 4' 8' 16' 24'   REF NORTH   TRUE NORTH

GENERAL NOTES

A. GENERAL CONTRACTOR SHALL SURVEY AREA FOR UNDERGROUND UTILITY LOCATIONS PRIOR TO DEMOLITION AND NEW WORK ON SITE.
B. ROOM NAMES AND NUMBERS MAY NOT BE CONSISTENT BETWEEN DEMOLITION FLOOR PLANS AND NEW FLOOR PLANS.
C. REFER TO MECHANICAL/PLUMBING AND ELECTRICAL DRAWINGS FOR EXTENT OF MECHANICAL/PLUMBING AND ELECTRICAL DEMOLITION WORK AND NEW CONSTRUCTION.
D. PAINT ALL EXPOSED CONDUITS, FITTINGS, AND CONDUIT COVERS ASSOCIATED WITH THE NEW WORK TO MATCH EXISTING ADJACENT SURFACE AT BOTH EXTERIOR AND INTERIOR LOCATIONS.
E. REMOVE ALL EXISTING ITEMS TO ALLOW THE NEW WORK, INCLUDING BUT NOT LIMITED TO TREES, SHRUBS, ASPHALT PAVING, FENCING.
F. COORDINATE EXACT LOCATION OF NEW HVAC UNITS IN FIELD WITH THE OWNER AND ARCHITECT PRIOR TO INSTALLATION. PATCH AND REPAIR ADJACENT FLOOR AND WALL SURFACE AREAS ASSOCIATED WITH THE INSTALLATION OF THESE UNITS .
G. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL, STORAGE AND REINSTALLATION OF CEILING MOUNTED DEVICES INCLUDING BUT NOT LIMITED TO SPEAKERS, HVAC GRILLES, EXIT SIGNS, FIRE ALARM, CEILING MOUNTED PROJECTORS, U.O.N. VERIFY AND COORDINATE EXISTING CONDITIONS IN FIELD.
H. FOR HVAC UNIT REFRIGERANT LINES THROUGH WALL, SEE MECHANICAL DRAWINGS AND DETAILS 7/A9.1 & 10/S8.1 FOR CONDUIT SPACING. SPACE PENETRATIONS TO CLEAR STUDS. COORDINATE LAYOUT IN FIELD. PATCH, REPAIR, AND PAINT EXTERIOR WALL SOFFIT, AND INTERIOR CEILING AFTER INSTALLATION TO MATCH EXISTING ADJACENT FINISHES.
I. REMOVE AND REINSTALL PROJECTORS PER DETAIL 16/A9.3.
J. REFER TO SHEET A9.1 FOR TYPICAL FRAMING DETAILS.
K. CONTRACTOR TO PATCH, REPAIR AND PAINT ALL DAMAGED SURFACES AND/OR SURFACES TO BE EXPOSED TO VIEW AS A RESULT OF DEMOLITION WORK. PROTECT FLOOR SURFACES DURING CONSTRUCTION, REPLACE IF DAMAGED AS RESULT OF DEMOLITION/NEW WORK.
L. COORDINATE LOCATION OF NEW THERMOSTATS IN FIELD, AVOID SWING OF DOORS, CASEWORK, AND WALL MOUNTED EQUIPMENT. SEE MECH. DWGS.
M. CONTRACTOR IS RESPONSIBLE FOR REMOVAL/DEMOLITION OF (E) CONCRETE PADS AFTER DEMOLITION OF MECHANICAL/PLUMBING EQUIPMENT AND TO REPAIR/PATCH & INFILL CONCRETE SLAB AS NEEDED.
N. CONTRACTOR IS RESPONSIBLE FOR DEMOLTION OF PARTIAL ROOF FOR NEW MECHANICAL EQUIPMENT. COORDINATE WITH MECH. PLANS FOR LOCATIONS & WITH GARLAND ROOFING FOR PATCHING OF (E) ROOFING.
L. CONTRACTOR TO REFERENCE DEMOLITION / ABATEMENT REPORT PRIOR TO DEMOLITION WORK.
M. PROVIDE WALL-MOUNTED TACTILE EXIT SIGNS WHERE NON IS PROVIDED AT DOORS WITH AN ILLUMINATED EXIT SIGN, SEE DETAIL 15/A0.3.
O. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL, STORAGE AND RE-INSTALLATION OF ALL WINDOW SHADES AND TRACK SYSTEM, INCLUDING ADJUSTING/CUTTING OF SHADES TO FIT FOR RE-INSTALLAITON AND TO ALLOW THE INSTALLATION OF NEW CEILING SYSTEMS.

DEMOLITION PLAN NOTES

(1.) REMOVE AND REPLACE EXISTING ACOUSTICAL LAY-IN T-BAR SUSPENDED CEILING SYSTEM.
2. REMOVE AND REPLACE ALL EXISTING LIGHT FIXTURES , REFER TO ELEC. DWGS. FOR EXTENT OF WORK. VERIFY QUANTITIES AND LAYOUT IN FIELD.
3. REMOVE AND REPLACE EXISTING HVAC DUCT, REFER TO MECHANICAL DWGS. FOR EXTENT OF WORK.
4. REFER TO MECHANICAL/PLUMBING DRAWINGS FOR EXTENT OF NEW WORK FOR THIS ROOM
5. REMOVE CEILING SYSTEM AND INSULATION PREPARE FOR NEW.
6. REMOVE EXISTING GLUE-ON ACOUSTICAL TILE CEILING SYSTEM, TO BARE RAFTER, PREPARE FOR NEW CEILING SYSTEM.
7. REMOVE EXISTING PARTIAL CEILING TO ALLOW NEW HVAC COMPONENTS AND REPLACEMENT OF LIGHT FIXTURES, PATCH AND REPAIR.
8. REMOVE EXISTING MECHANICAL SYSTEMS, REFER TO MECHANICAL DWGS. FOR THE EXTENT OF DEMOLITION WORK.
9. REMOVE EXISTING HARD CEILING SYSTEM TO BARE RAFTERS, PREPARE FOR NEW CEILING AND INSULATION.
10. EXISTING ACOUSTICAL LAY-IN T-BAR SUSPENDED GRID SYSTEM TO REMAIN, REMOVE EXITING ACOUSTICAL TILES TO ALLOW FOR NEW HVAC WORK, STORE CEILING TILES FOR REINSTALLATION, TYP.
11. REMOVE EXISTING PORTABLE INDOOR AC UNIT SYSTEM, WINDOW MOUNTED EXHAUST VENT AND CONDENSATE DRAIN PIPE, RETURN UNIT TO THE DISTRICT AND INFILL WINDOW FRAME WITH SPANDREL ACOUSTICAL PANEL TO MATCH ADJACENT. TYPICAL AT ALL CLASSROOMS AND WHERE OCCURS, VERIFY QUANTITIES AND LOCATIONS IN FIELD.
12. N/A.
13. REMOVE ALL EXISTING CASE WORK, SHELVING, FURNITURE AND OR EQUIPMENT TO COMPLETELY EVACUATE ROOM PRIOR TO ANY DEMOLITION OR NEW WORK AND RETURN TO DISTRICT.
14. DEMOLISH (E) PARTIAL ROOF TO ALLOW FOR NEW HVAC EQUIPMENT PENETRATION. PATCH, REPAIR ROOF TO MATCH EXISTING AFTER INSTALLATION OF MECHANICAL EQUIPMENT. COORDINATE WITH MECHANICAL DRAWINGS FOR DEMOTION AND NEW EQUIPMENT LOCATIONS
15. REMOVE PARTIAL WALL FOR NEW OA LOUVER. PATCH AND REPAIR AFTER INSTALLATION TO MATCH ADJACENT INTERIOR AND EXTERIOR. COORDINATE OPENING LOCATION WITH MECH. EQUIPMENT REQUIREMENTS.
16. REMOVE EXISTING ROOF MOUNTED MECHANICAL EQUIPMENT. PATCH, REPAIR CEILING AND ROOF TO MATCH EXISTING. SEE MECH. DWGS FOR EXTENT OF WORK.
17. CUT AND REMOVE TREE TO ALLOW FOR NEW HVAC EQUIPMENT AND FENCING.
18. REMOVE EXISTING CLERESTORY WINDOWS ABOVE ROOF FOR HVAC DUCT PENETRATION. INFILL, PATCH AND REPAIR WALL AND WINDOW TO MATCH ADJACENT. CONTRACTOR TO REFERENCE DEMOLITION / ABATEMENT REPORT.
19. REMOVE EXISTING INT./EXT. WALL FINISHES, TO ALLOW STRUCTURAL WALL REINFORCEMENT, SEE STRUCTURAL DRAWINGS. PATCH AND REPAIR WALL FINISHES TO MATCH EXISTING ADJACENT.

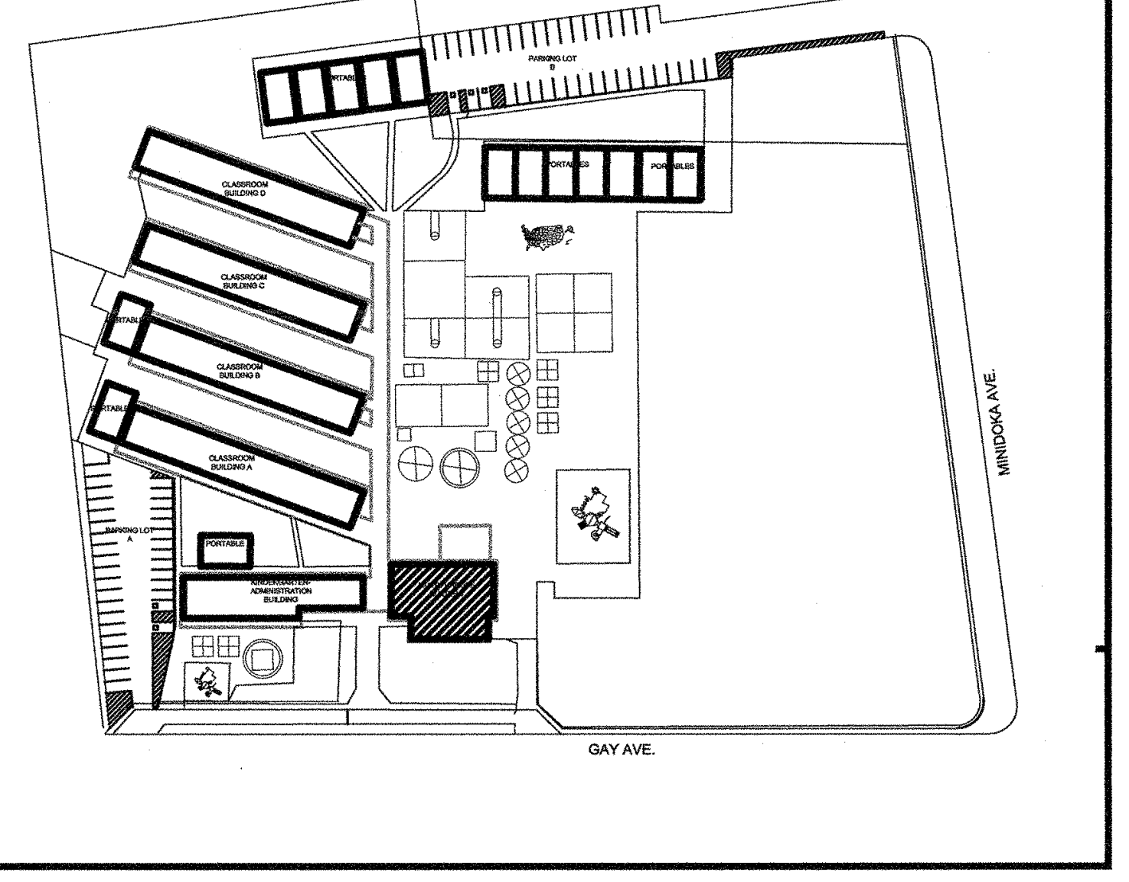
NEW FLOOR PLAN NOTES

1. NEW CONDENSING UNITS OVER NEW CONCRETE PAD, SEE DETAIL 7/A0.2, MECHANICAL/PLUMB. AND ELEC. DRAWINGS FOR EXTENT OF WORK.
2. EXISTING CHAIN LINK FENCE.
3. NEW CHAIN LINK FENCE ENCLOSURE WITH DOUBLE GATES, SEE SHEET 2-5, 11/A0.2 FOR DETAILS AND MECHANICAL DWGS. FOR SIZE REQUIREMENTS.
4. EXISTING CONCRETE WALKWAY.
5. EXISTING ASPHALT PAVING.

GRAPHIC KEY

▭	(E) STUD WALL
TES ■	(N) TACTILE EXIT SIGN, SEE DETAIL 15/A0.3-H

BUILDING KEY



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LICENSED ARCHITECT
MARK C. FINNEY
NO. C-24673
REN. 9-30-17
STATE OF CALIFORNIA

DEMOLITION-NEW FLOOR PLANS
MULTI-PURPOSE & KITCHEN

RUSSO-McENTEE ACADEMY- HVAC UPGRADES
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ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

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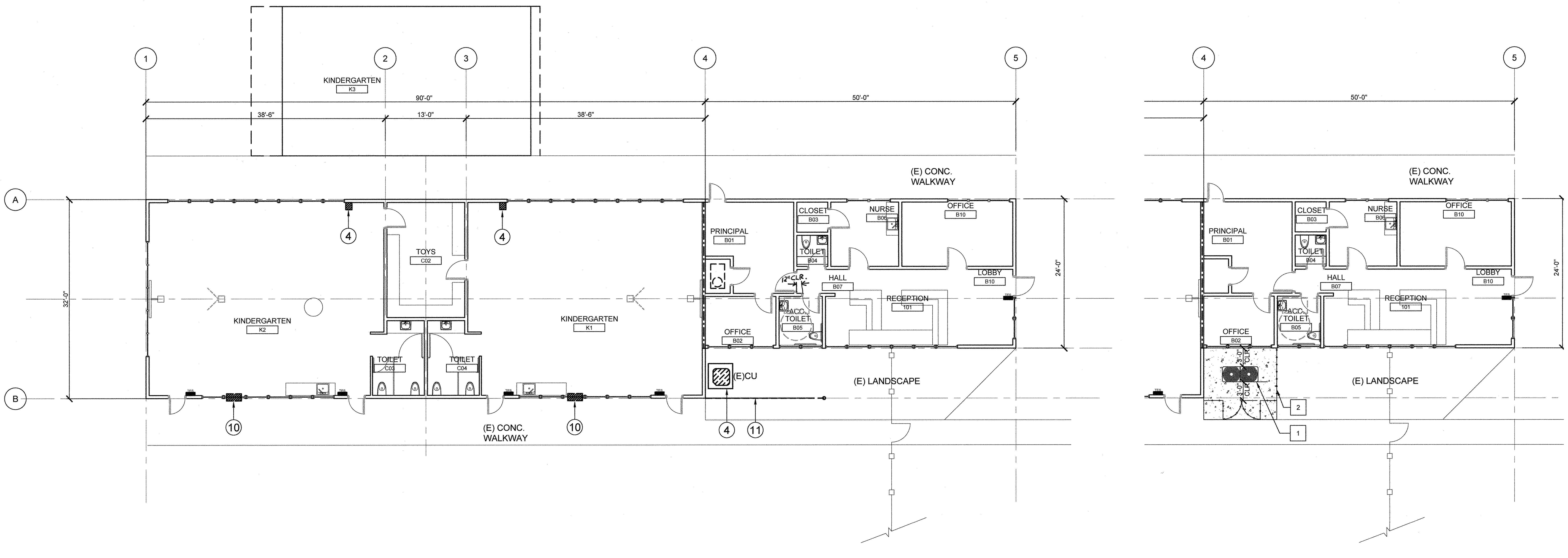
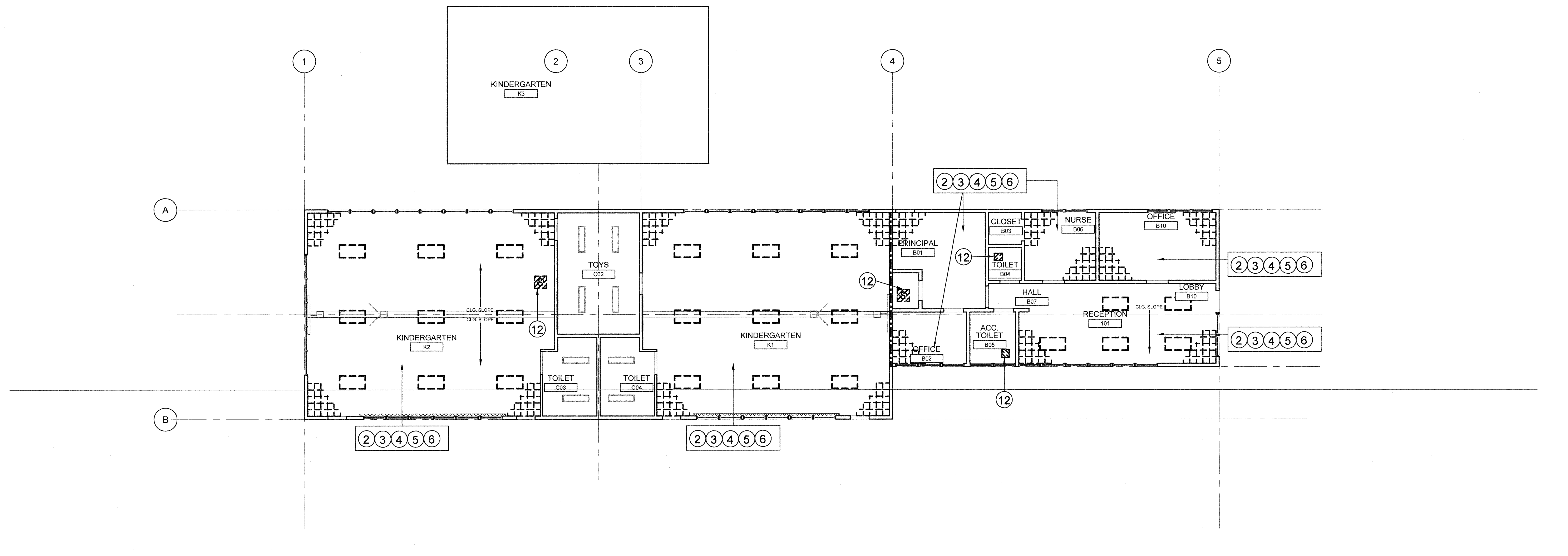


1 DEMOLITION AND NEW FLOOR PLAN - ADMIN-KINDERGARTEN BUILDING

1/8" = 1'-0"



2 DEMOLITION CEILING PLAN - ADMIN-KINDERGARTEN BUILDING

1/8" = 1'-0"

GENERAL NOTES

A. ROOM NAMES AND NUMBERS MAY NOT BE CONSISTENT BETWEEN DEMOLITION FLOOR PLANS AND NEW FLOOR PLANS.

B. REFER TO MECHANICAL/PLUMBING, ELECTRICAL, DRAWINGS FOR EXTENT OF MECHANICAL/PLUMBING, AND ELECTRICAL WORK.

C. PAINT ALL EXPOSED CONDUITS, FITTINGS, AND CONDUIT COVERS ASSOCIATED WITH THE NEW WORK TO MATCH EXISTING ADJACENT SURFACE AT BOTH EXTERIOR AND INTERIOR LOCATIONS.

D. REMOVE ALL EXISTING ITEMS TO ALLOW THE NEW WORK, INCLUDING BUT NOT LIMITED TO TREES, SHRUBS, ASPHALT PAVING, FENCING.

E. COORDINATE EXACT LOCATION OF NEW HVAC UNITS IN FIELD WITH THE OWNER AND ARCHITECT PRIOR TO INSTALLATION. PATCH AND REPAIR ADJACENT FLOOR AND WALL SURFACE AREAS ASSOCIATED WITH THE INSTALLATION OF THESE UNITS .

F. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL, STORAGE AND REINSTALLATION OF CEILING MOUNTED DEVICES INCLUDING BUT NOT LIMITED TO SPEAKERS, HVAC GRILLES, EXIT SIGNS, FIRE ALARM, CEILING MOUNTED PROJECTORS, U.O.N. VERIFY AND COORDINATE EXISTING CONDITIONS IN FIELD.

G. FOR HVAC UNIT REFRIGERANT LINES THROUGH WALL, SEE MECHANICAL DRAWINGS AND DETAILS 7/A9.1 FOR CONDUIT SPACING. SPACE PENETRATIONS TO CLEAR STUDS. COORDINATE LAYOUT IN FIELD. PATCH, REPAIR, AND PAINT EXTERIOR WALL SOFFIT, AND INTERIOR CEILING AFTER INSTALLATION TO MATCH EXISTING ADJACENT FINISHES.

H. REMOVE EXISTING CEILING MOUNTED PROJECTORS AND REINSTALL PER DETAIL 16/A9.3.

I. REFER TO SHEET A9.1 FOR TYPICAL FRAMING DETAILS.

J. CONTRACTOR TO PATCH, REPAIR AND PAINT ALL DAMAGED SURFACES AND/OR SURFACES TO BE EXPOSED TO VIEW AS A RESULT OF DEMOLITION WORK. PROTECT FLOOR SURFACES DURING CONSTRUCTION, REPLACE IF DAMAGED AS RESULT OF DEMOLITION/NEW WORK.

K. COORDINATE LOCATION OF NEW THERMOSTATS IN FIELD, AVOID SWING OF DOORS, CASEWORK, AND WALL MOUNTED EQUIPMENT. SEE MECH. DWGS.

L. CONTRACTOR TO REFERENCE DEMOLITION / ABATEMENT REPORT PRIOR TO DEMOLITION WORK.

M. PROVIDE WALL-MOUNTED TACTILE EXIT SIGNS TYPICAL AT ALL EXIT DOORS , SEE DETAIL 15/A0.3.

N. CONTRACTOR IS RESPONSIBLE FOR REMOVAL/DEMOLITION OF (E) CONCRETE PADS AFTER DEMOLITION OF MECHANICAL/PLUMBING EQUIPMENT AND TO REPAIR/PATCH & INFILL CONCRETE SLAB AS NEEDED.

O. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF PARTIAL ROOF FOR NEW MECHANICAL EQUIPMENT. COORDINATE WITH MECHANICAL PLANS FOR LOCATIONS & WITH GARLAND ROOFING FOR PATCHING OF EXISTING ROOFING.

O. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL, STORAGE AND RE-INSTALLATION OF ALL WINDOW SHADES AND TRACK SYSTEM, INCLUDING ADJUSTING/CUTTING OF SHADES TO FIT FOR RE-INSTALLAITON AND TO ALLOW THE INSTALLATION OF NEW CEILING SYSTEMS.

DEMOLITION PLAN NOTES

1. REMOVE AND REPLACE EXISTING ACOUSTICAL LAY-IN T-BAR SUSPENDED CEILING SYSTEM.
2. REMOVE AND REPLACE ALL EXISTING LIGHT FIXTURES , REFER TO ELEC. DWGS. FOR EXTENT OF WORK. VERIFY QUANTITIES AND LAYOUT IN FIELD.
3. REMOVE AND REPLACE EXISTING HVAC DUCT, REFER TO MECHANICAL DWGS. FOR EXTENT OF WORK.
4. REMOVE AND REPLACE EXISTING MECHANICAL/PLUMBING SYSTEMS & PIPING, REFER TO MECHANICAL/PLUMBING DRAWINGS FOR EXTENT OF WORK.
5. REMOVE AND REPLACE CEILING/ROOF INSULATION.
6. REMOVE EXISTING GYP. BOARD, FURRING, SUBSTRATE CEILING SYSTEM, TO BARE RAFTERS, PREPARE FOR NEW CEILING SYSTEM.
7. EXISTING CEILING TO REMAIN, PATCH AND REPAIR.
8. REFER TO MECHANICAL DWGS. FOR THE EXTENT OF DEMOLITION WORK IN THIS ROOM.
9. REMOVE EXISTING GLUED-ON ACOUSTICAL TILE, FURRING, SUBSTRATE CEILING SYSTEM TO BARE RAFTERS, PREPARE FOR NEW CEILING SYSTEM.
10. REMOVE EXISTING WALL/WINDOW MOUNTED AC UNIT SYSTEM, PANEL AND SUPPORT BRACKETS, DISCONNECT/REMOVE ASSOCIATED PIPING AND ELECTRICAL. PROVIDE NEW WINDOW GLASS AND OR ALUMINUM PANEL TO MATCH ADJACENT.
11. REMOVE AND REPLACE EXISTING CHAIN LINK FENCE AND SINGLE GATE WITH DOUBLE GATES, TO ALLOW THE INSTALLATION OF NEW HVAC SYSTEMS. REMOVE AND CLEAR AREA OF TREES AND SHRUBS.
12. CONTRACTOR TO DEMOLISH PORTION OF ROOF TO ALLOW FOR NEW HVAC EQUIPMENT PENETRATION. PATCH AND REPAIR ROOF TO MATCH EXISTING. CONTRACTOR TO COORDINATE WITH GARLAND CO. FOR ROOFING MATERIAL, APPROVED DISTRICT CONTRACTOR TO INSTALL, TYP.

NEW FLOOR PLAN NOTES

1. NEW HEAT PUMP UNIT OVER NEW CONCRETE PAD, SEE DETAIL 7/A0.2 AND MECHANICAL/PLUMB. AND ELEC. DRAWINGS FOR EXTENT OF WORK.
2. NEW CHAIN LINK FENCE AND DOUBLE GATES, SEE SHEET 14/A0.2 & 2-5/A0.2 FOR DETAILS.
3. EXISTING CONCRETE WALKWAY.

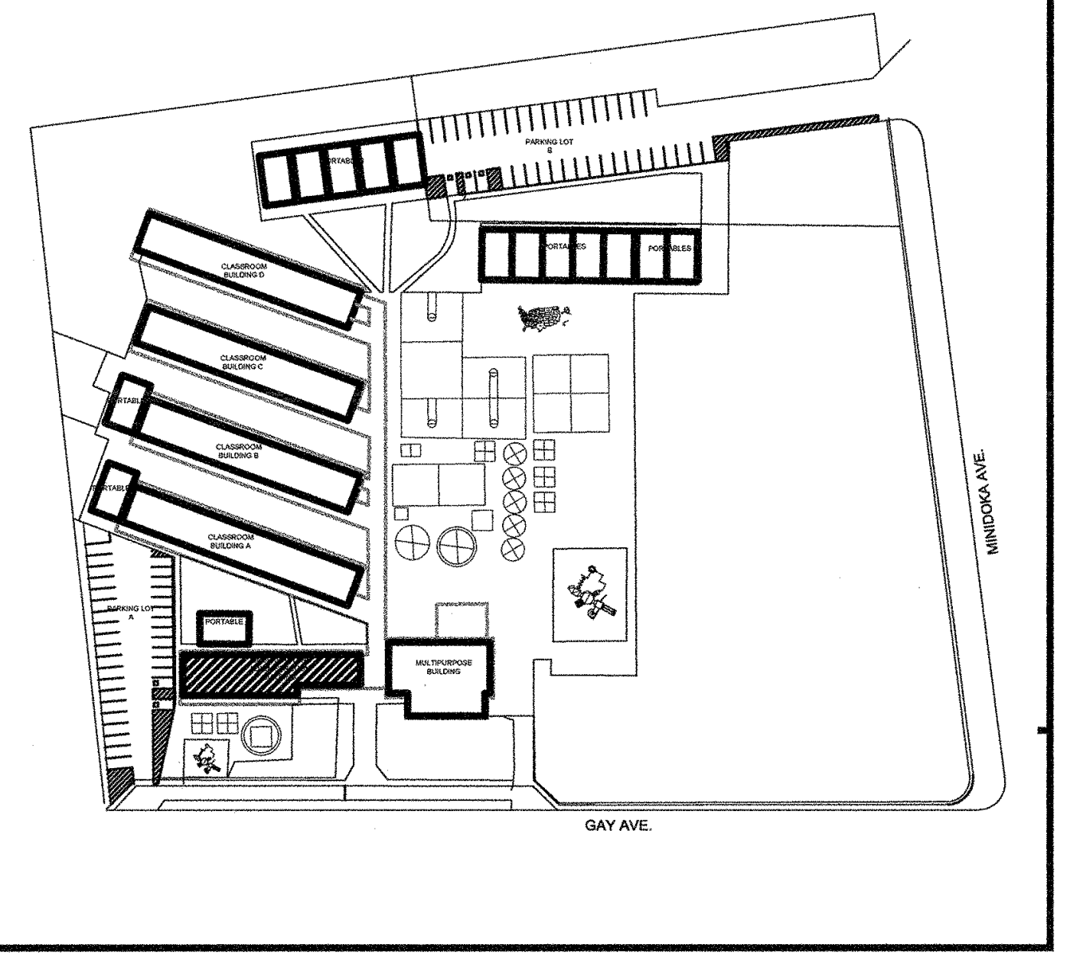
GRAPHIC KEY

▭ (E) STUD WALL

▬ (E) 1 HR. FIRE RATED WALL

TES ▬ (N) TACTILE EXIT SIGN, SEE DETAIL 15/A0.3-H

BUILDING KEY



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LICENSED ARCHITECT
MARK C. FINNEY
NO. C-24673
REN. 9-30-19
STATE OF CALIFORNIA

DEMOLITION PLANS
ADMINISTRATION- KINDERGARTEN BUILDING

RUSSO-McENTEE ACADEMY- HVAC UPGRADES
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ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

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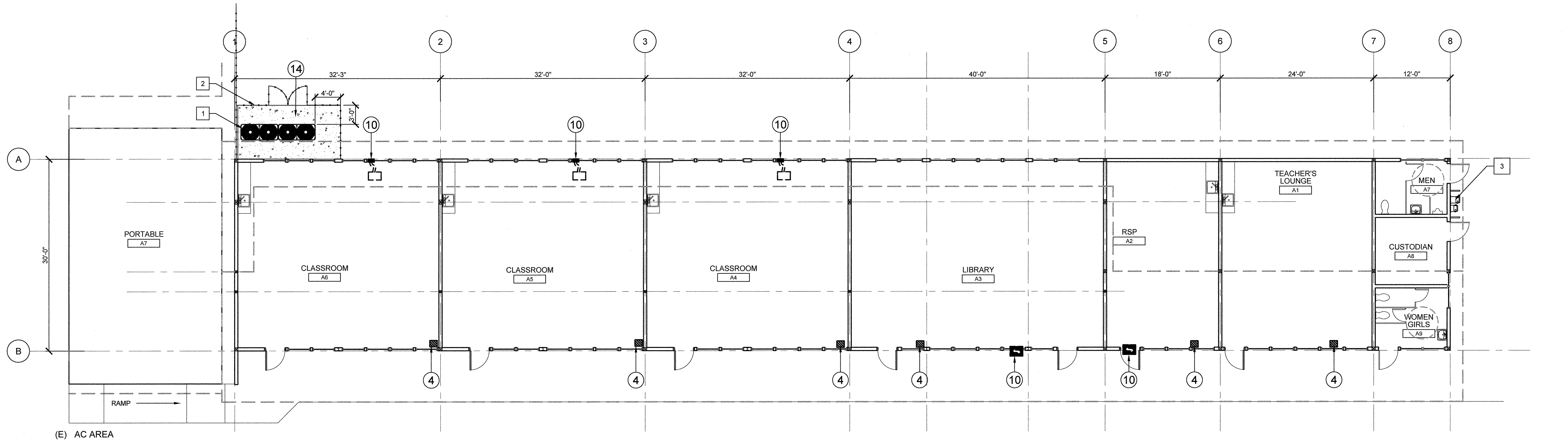
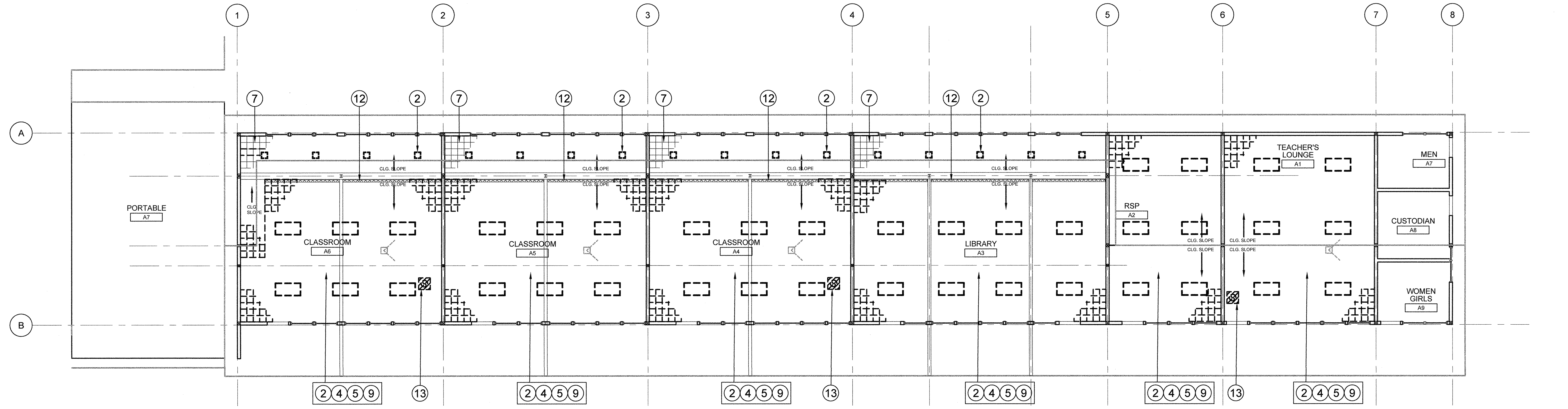


1 DEMOLITION AND NEW FLOOR PLAN - UNIT A

1/8" = 1'-0"



2 DEMOLITION CEILING PLAN - UNIT A

1/8" = 1'-0"

GENERAL NOTES

A. ROOM NAMES AND NUMBERS MAY NOT BE CONSISTENT BETWEEN DEMOLITION FLOOR PLANS AND NEW FLOOR PLANS.
B. REFER TO MECHANICAL/PLUMBING, ELECTRICAL, DRAWINGS FOR EXTENT OF MECHANICAL/PLUMBING, AND ELECTRICAL WORK.
C. PAINT ALL EXPOSED CONDUITS, FITTINGS, AND CONDUIT COVERS ASSOCIATED WITH THE NEW WORK TO MATCH EXISTING ADJACENT SURFACE AT BOTH EXTERIOR AND INTERIOR LOCATIONS.
D. REMOVE ALL EXISTING ITEMS TO ALLOW THE NEW WORK, INCLUDING BUT NOT LIMITED TO TREES, SHRUBS, ASPHALT PAVING, FENCING.
E. COORDINATE EXACT LOCATION OF NEW HVAC UNITS IN FIELD WITH THE OWNER AND ARCHITECT PRIOR TO INSTALLATION. PATCH AND REPAIR ADJACENT FLOOR AND WALL SURFACE AREAS ASSOCIATED WITH THE INSTALLATION OF THESE UNITS .
F. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL, STORAGE AND REINSTALLATION OF CEILING MOUNTED DEVICES INCLUDING BUT NOT LIMITED TO SPEAKERS, HVAC GRILLES, EXIT SIGNS, FIRE ALARM, CEILING MOUNTED PROJECTORS, U.O.N. VERIFY AND COORDINATE EXISTING CONDITIONS IN FIELD.
G. FOR HVAC UNIT REFRIGERANT LINES THROUGH WALL, SEE MECHANICAL DRAWINGS AND DETAILS 7/A9.1 FOR CONDUIT SPACING. SPACE PENETRATIONS TO CLEAR STUDS. COORDINATE LAYOUT IN FIELD. PATCH, REPAIR, AND PAINT EXTERIOR WALL SOFFIT, AND INTERIOR CEILING AFTER INSTALLATION TO MATCH EXISTING ADJACENT FINISHES.
H. REMOVE EXISTING CEILING MOUNTED PROJECTORS AND REINSTALL PER DETAIL 16/A9.3.
I. REFER TO SHEET A9.1 FOR TYPICAL FRAMING DETAILS.
J. CONTRACTOR TO PATCH, REPAIR AND PAINT ALL DAMAGED SURFACES AND/OR SURFACES TO BE EXPOSED TO VIEW AS A RESULT OF DEMOLITION WORK. PROTECT FLOOR SURFACES DURING CONSTRUCTION, REPLACE IF DAMAGED AS RESULT OF DEMOLITION/NEW WORK.
K. COORDINATE LOCATION OF NEW THERMOSTATS IN FIELD, AVOID SWING OF DOORS, CASEWORK, AND WALL MOUNTED EQUIPMENT. SEE MECH. DWGS.
L. ALL ROOF PENETRATIONS MUST BE GARLAND CO. MATERIAL AND APPROVED ROOFING CONTRACTOR TO INSTALL, TYPICAL.
M. FOR CEILING DETAILS, SEE SHEET A9.2 & A9.3.
N. CONTRACTOR TO REFERENCE DEMOLITION / ABATEMENT REPORT PRIOR TO DEMOLITION WORK.
O. CONTRACTOR IS RESPONSIBLE FOR REMOVAL/DEMOLITION OF (E) CONCRETE PADS AFTER DEMOLITION OF MECHANICAL/PLUMBING EQUIPMENT AND TO REPAIR/PATCH & INFILL CONCRETE SLAB AS NEEDED.
P. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF PARTIAL ROOF FOR NEW MECHANICAL EQUIPMENT. COORDINATE WITH MECHANICAL PLANS FOR LOCATIONS & WITH GARLAND ROOFING FOR PATCHING OF EXISTING ROOFING.
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M. PROVIDE WALL-MOUNTED TACTILE EXIT SIGNS TYPICAL AT ALL EXIT DOORS SEE DETAIL 15/A0.3.

DEMOLITION PLAN NOTES

① REMOVE AND REPLACE EXISTING ACOUSTICAL LAY-IN T-BAR SUSPENDED CEILING SYSTEM.
2. REMOVE AND REPLACE ALL EXISTING LIGHT FIXTURES , REFER TO ELEC. DWGS. FOR EXTENT OF WORK. VERIFY QUANTITIES AND LAYOUT IN FIELD.
3. REMOVE AND REPLACE EXISTING HVAC DUCT, REFER TO MECHANICAL DWGS. FOR EXTENT OF WORK.
4. REMOVE EXISTING MECHANICAL/PLUMBING SYSTEMS & PIPING, REFER TO MECHANICAL/PLUMBING DRAWINGS FOR EXTENT OF WORK. PATCH BACK, REPAIR, FINISH, AND PAINT TO MATCH EXISTING ADJACENT SURFACE. RETURN TO DISTRICT ALL PORTABLE DEVICES THAT ARE REMOVED.
5. REMOVE AND REPLACE CEILING/ROOF INSULATION.
6. REMOVE EXISTING GYP. BOARD, FURRING, SUBSTRATE CEILING SYSTEM, TO BARE RAFTERS, PREPARE FOR NEW CEILING SYSTEM.
7. EXISTING CEILING TO REMAIN, PATCH/REPAIR AND PAINT.
8. REFER TO MECHANICAL DWGS. FOR THE EXTENT OF DEMOLITION WORK IN THIS ROOM.
9. REMOVE EXISTING GLUED-ON ACOUSTICAL TILE, FURRING, SUBSTRATE CEILING SYSTEM TO BARE RAFTERS, PREPARE FOR NEW CEILING SYSTEM.
10. REMOVE EXISTING WALL/WINDOW MOUNTED AC UNIT SYSTEM, PANEL AND SUPPORT BRACKETS, DISCONNECT/REMOVE ASSOCIATED PIPING AND ELECTRICAL. PROVIDE NEW WINDOW GLASS AND OR ALUMINUM PANEL TO MATCH ADJACENT.
11. REMOVE AND REPLACE EXISTING CHAIN LINK FENCE AND SINGLE GATE WITH DOUBLE GATES, TO ALLOW THE INSTALLATION OF NEW HVAC SYSTEMS. REMOVE AND CLEAR AREA OF TREES AND SHRUBS.
12. REMOVE EXISTING BLINDS W/TRACKS WITHOUT DAMAGING AND STORE IN SAFE AREA AS NOT TO GET DAMAGED. BLINDS TO BE RE-INSTALLED AFTER NEW CEILING INSTALL. COORDINATE WITH ARCHITECT FOR LOCATION/INSTALLATION INSTRUCTIONS.
13. CONTRACTOR TO DEMOLISH PORTION OF ROOF TO ALLOW FOR NEW HVAC EQUIPMENT PENETRATION. PATCH AND REPAIR ROOF TO MATCH EXISTING. CONTRACTOR TO COORDINATE WITH GARLAND CO. FOR ROOFING MATERIAL, APPROVED DISTRICT CONTRACTOR TO INSTALL, TYP.
14. REROUTE (E) UNDERGROUND UTILITIES TO CLEAR THE NEW CONC. PADS AND FENCING ENCLOSURE FOOTINGS.

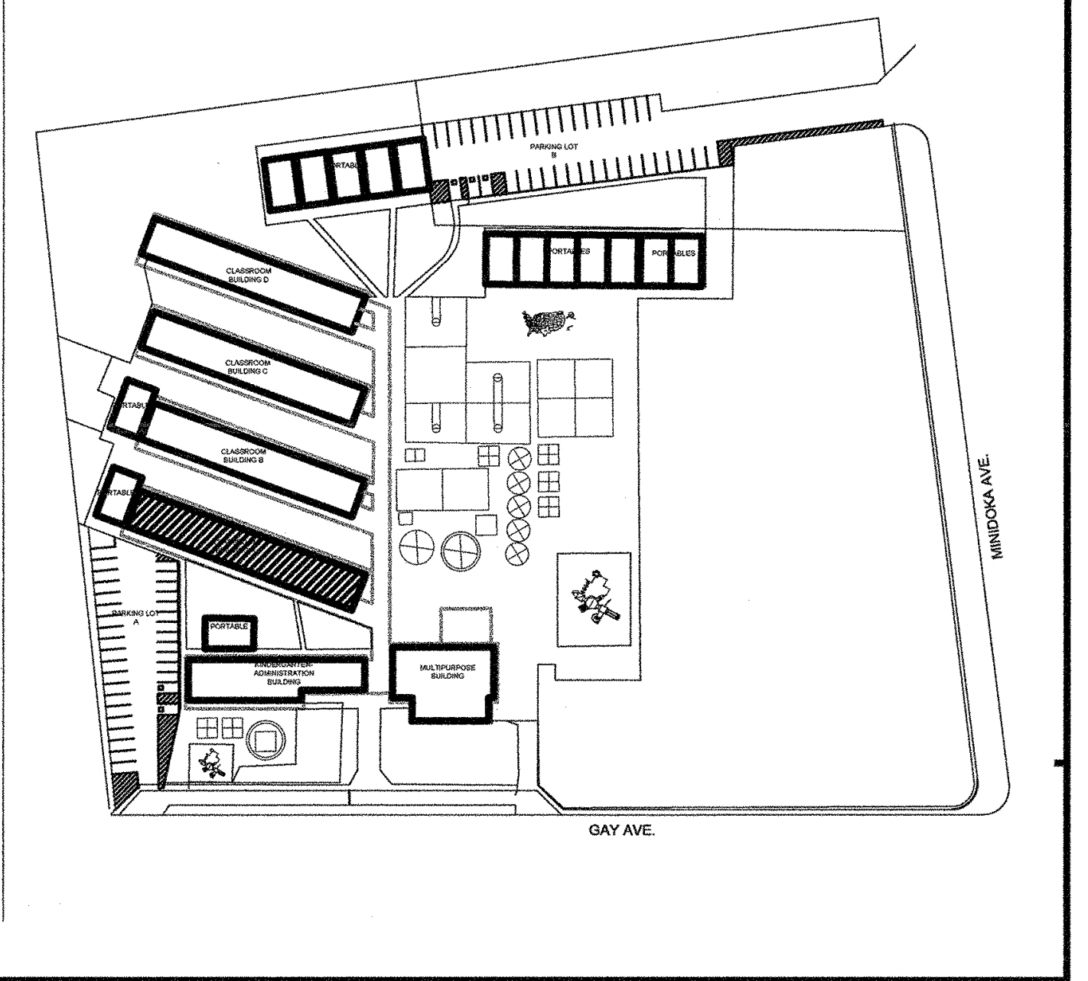
NEW FLOOR PLAN NOTES

1. NEW CONDENSING UNIT OVER NEW CONCRETE PAD, SEE DETAILS 7/A0.2 AND MECHANICAL/PLUMB. AND ELEC. DRAWINGS FOR EXTENT OF WORK.
2. NEW CHAIN LINK FENCE AND GATES, SEE SHEET 13/A0.2 & 2-5,11/A0.2 FOR DETAILS.
3. REMOVE AND REPLACE EXISTING DRINKING FOUNTAIN WITH NEW AND PROVIDE GUARDRAILS, SEE DETAILS 2 AND 10/A0.3.

GRAPHIC KEY

▭ (E) STUD WALL

BUILDING KEY



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DEMOLITION-NEW FLOOR PLANS
UNIT A - CLASSROOMS-LIBRARY

RUSSO-McENTEE ACADEMY - HVAC UPGRADES
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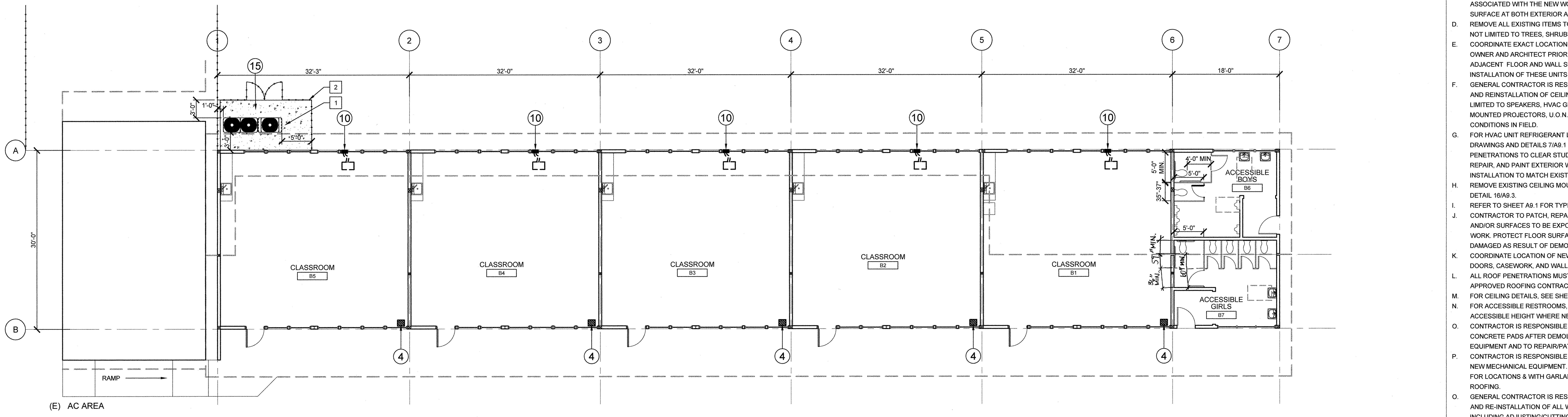
APPL 01-117267
AC KG FLS MS SS
DATE MAY 22 2018

DRAWN BY: KU
CHECKED BY: -
JOB NO: 17116
DATE: 10/16/2017

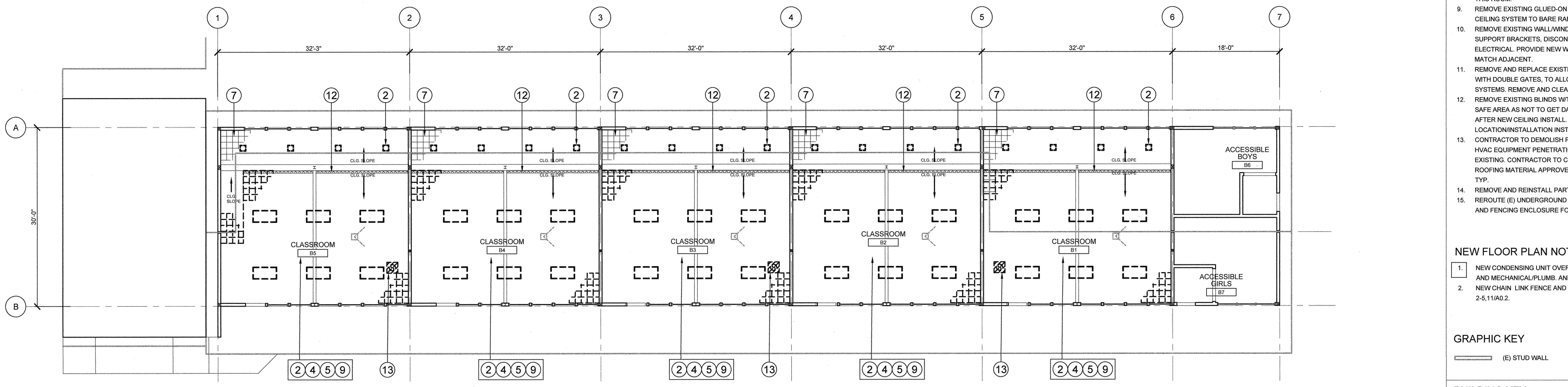
A2.3



1 DEMOLITION AND NEW FLOOR PLAN - UNIT B

1/8" = 1'-0"

0 2' 4' 8' 16' 24'



2 DEMOLITION CEILING PLAN - UNIT B

1/8" = 1'-0"

0 2' 4' 8' 16' 24'

GENERAL NOTES

A. ROOM NAMES AND NUMBERS MAY NOT BE CONSISTENT BETWEEN DEMOLITION FLOOR PLANS AND NEW FLOOR PLANS.
B. REFER TO MECHANICAL/PLUMBING, ELECTRICAL, DRAWINGS FOR EXTENT OF MECHANICAL/PLUMBING, AND ELECTRICAL WORK.
C. PAINT ALL EXPOSED CONDUITS, FITTINGS, AND CONDUIT COVERS ASSOCIATED WITH THE NEW WORK TO MATCH EXISTING ADJACENT SURFACE AT BOTH EXTERIOR AND INTERIOR LOCATIONS.
D. REMOVE ALL EXISTING ITEMS TO ALLOW THE NEW WORK, INCLUDING BUT NOT LIMITED TO TREES, SHRUBS, ASPHALT PAVING, FENCING.
E. COORDINATE EXACT LOCATION OF NEW HVAC UNITS IN FIELD WITH THE OWNER AND ARCHITECT PRIOR TO INSTALLATION. PATCH AND REPAIR ADJACENT FLOOR AND WALL SURFACE AREAS ASSOCIATED WITH THE INSTALLATION OF THESE UNITS .
F. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL, STORAGE AND REINSTALLATION OF CEILING MOUNTED DEVICES INCLUDING BUT NOT LIMITED TO SPEAKERS, HVAC GRILLES, EXIT SIGNS, FIRE ALARM, CEILING MOUNTED PROJECTORS, U.O.N. VERIFY AND COORDINATE EXISTING CONDITIONS IN FIELD.
G. FOR HVAC UNIT REFRIGERANT LINES THROUGH WALL, SEE MECHANICAL DRAWINGS AND DETAILS 7/A9.1 FOR CONDUIT SPACING. SPACE PENETRATIONS TO CLEAR STUDS. COORDINATE LAYOUT IN FIELD. PATCH, REPAIR, AND PAINT EXTERIOR WALL SOFFIT, AND INTERIOR CEILING AFTER INSTALLATION TO MATCH EXISTING ADJACENT FINISHES.
H. REMOVE EXISTING CEILING MOUNTED PROJECTORS AND REINSTALL PER DETAIL 16/A9.3.
I. REFER TO SHEET A9.1 FOR TYPICAL FRAMING DETAILS.
J. CONTRACTOR TO PATCH, REPAIR AND PAINT ALL DAMAGED SURFACES AND/OR SURFACES TO BE EXPOSED TO VIEW AS A RESULT OF DEMOLITION WORK. PROTECT FLOOR SURFACES DURING CONSTRUCTION, REPLACE IF DAMAGED AS RESULT OF DEMOLITION/NEW WORK.
K. COORDINATE LOCATION OF NEW THERMOSTATS IN FIELD, AVOID SWING OF DOORS, CASEWORK, AND WALL MOUNTED EQUIPMENT. SEE MECH. DWGS.
L. ALL ROOF PENETRATIONS MUST BE GARLAND CO. MATERIAL AND APPROVED ROOFING CONTRACTOR TO INSTALL, TYPICAL.
M. FOR CEILING DETAILS, SEE SHEET A9.2 & A9.3.
N. FOR ACCESSIBLE RESTROOMS, RE-MOUNT PLUMBING FIXTURES TO ACCESSIBLE HEIGHT WHERE NECESSARY PER DETAIL 9/A0.3.
O. CONTRACTOR IS RESPONSIBLE FOR REMOVAL/DEMOLITION OF (E) CONCRETE PADS AFTER DEMOLITION OF MECHANICAL/PLUMBING EQUIPMENT AND TO REPAIR/PATCH & INFILL CONCRETE SLAB AS NEEDED.
P. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF PARTIAL ROOF FOR NEW MECHANICAL EQUIPMENT. COORDINATE WITH MECHANICAL PLANS FOR LOCATIONS & WITH GARLAND ROOFING FOR PATCHING OF EXISTING ROOFING.
O. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL, STORAGE AND RE-INSTALLATION OF ALL WINDOW SHADES AND TRACK SYSTEM, INCLUDING ADJUSTING/CUTTING OF SHADES TO FIT FOR RE-INSTALLAITON AND TO ALLOW THE INSTALLATION OF NEW CEILING SYSTEMS.
M. PROVIDE WALL-MOUNTED TACTILE EXIT SIGNS TYPICAL AT ALL EXIT DOORS, SEE DETAIL 15/A0.3.

DEMOLITION PLAN NOTES

① REMOVE AND REPLACE EXISTING ACOUSTICAL LAY-IN T-BAR SUSPENDED CEILING SYSTEM.
2. REMOVE AND REPLACE ALL EXISTING LIGHT FIXTURES , REFER TO ELEC. DWGS. FOR EXTENT OF WORK. VERIFY QUANTITIES AND LAYOUT IN FIELD.
3. REMOVE AND REPLACE EXISTING HVAC DUCT, REFER TO MECHANICAL DWGS. FOR EXTENT OF WORK.
4. REMOVE EXISTING MECHANICAL/PLUMBING SYSTEMS & PIPING, REFER TO MECHANICAL/PLUMBING DRAWINGS FOR EXTENT OF WORK. PATCH BACK, REPAIR, FINISH, AND PAINT TO MATCH EXISTING ADJACENT SURFACE. RETURN TO DISTRICT ALL PORTABLE DEVICES THAT ARE REMOVED.
5. REMOVE AND REPLACE CEILING/ROOF INSULATION.
6. REMOVE EXISTING GYP. BOARD, FURRING, SUBSTRATE CEILING SYSTEM, TO BARE RAFTERS, PREPARE FOR NEW CEILING SYSTEM.
7. EXISTING CEILING TO REMAIN, PATCH AND REPAIR.
8. REFER TO MECHANICAL DWGS. FOR THE EXTENT OF DEMOLITION WORK IN THIS ROOM.
9. REMOVE EXISTING GLUED-ON ACOUSTICAL TILE, FURRING, SUBSTRATE CEILING SYSTEM TO BARE RAFTERS, PREPARE FOR NEW CEILING SYSTEM.
10. REMOVE EXISTING WALL/WINDOW MOUNTED AC UNIT SYSTEM, PANEL AND SUPPORT BRACKETS, DISCONNECT/REMOVE ASSOCIATED PIPING AND ELECTRICAL. PROVIDE NEW WINDOW GLASS AND OR ALUMINUM PANEL TO MATCH ADJACENT.
11. REMOVE AND REPLACE EXISTING CHAIN LINK FENCE AND SINGLE GATE WITH DOUBLE GATES, TO ALLOW THE INSTALLATION OF NEW HVAC SYSTEMS. REMOVE AND CLEAR AREA OF TREES AND SHRUBS.
12. REMOVE EXISTING BLINDS W/TRACKS WITHOUT DAMAGING AND STORE IN SAFE AREA AS NOT TO GET DAMAGED. BLINDS TO BE RE-INSTALLED AFTER NEW CEILING INSTALL. COORDINATE WITH ARCHITECT FOR LOCATION/INSTALLATION INSTRUCTIONS.
13. CONTRACTOR TO DEMOLISH PORTION OF ROOF TO ALLOW FOR NEW HVAC EQUIPMENT PENETRATION. PATCH AND REPAIR ROOF TO MATCH EXISTING. CONTRACTOR TO COORDINATE WITH GARLAND CO. FOR ROOFING MATERIAL APPROVED BY DISTRICT, CONTRACTOR TO INSTALL, TYP.
14. REMOVE AND REINSTALL PARTITION DOOR TO SWING OUTWARD.
15. REROUTE (E) UNDERGROUND UTILITIES TO CLEAR THE NEW CONC. PADS AND FENCING ENCLOSURE FOOTINGS.

NEW FLOOR PLAN NOTES

1. NEW CONDENSING UNIT OVER NEW CONCRETE PAD, SEE DETAIL 7/A0.2 AND MECHANICAL/PLUMB. AND ELEC. DRAWINGS FOR EXTENT OF WORK.
2. NEW CHAIN LINK FENCE AND DOUBLE GATES, SEE DETAILS 13/A0.2 & 2-5,11/A0.2.

GRAPHIC KEY

▭ (E) STUD WALL

BUILDING KEY

SUGIMURA
FINNEY
ARCHITECTS
SFA
ARCHITECTURE INTERIORS PLANNING

2155 SOUTH BASCOM AVE.
SUITE 200
CAMPBELL, CA 95008
PHONE: 408-879-0600
FAX: 408-377-6066

MARK C. FINNEY
NO. C-24673
REN. 9-30-17

DEMOLITION PLANS
UNIT B - CLASSROOMS

RUSSO-McENTEE ACADEMY- HVAC UPGRADES
2851 GAY AVE., SAN JOSE, CA 95127
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

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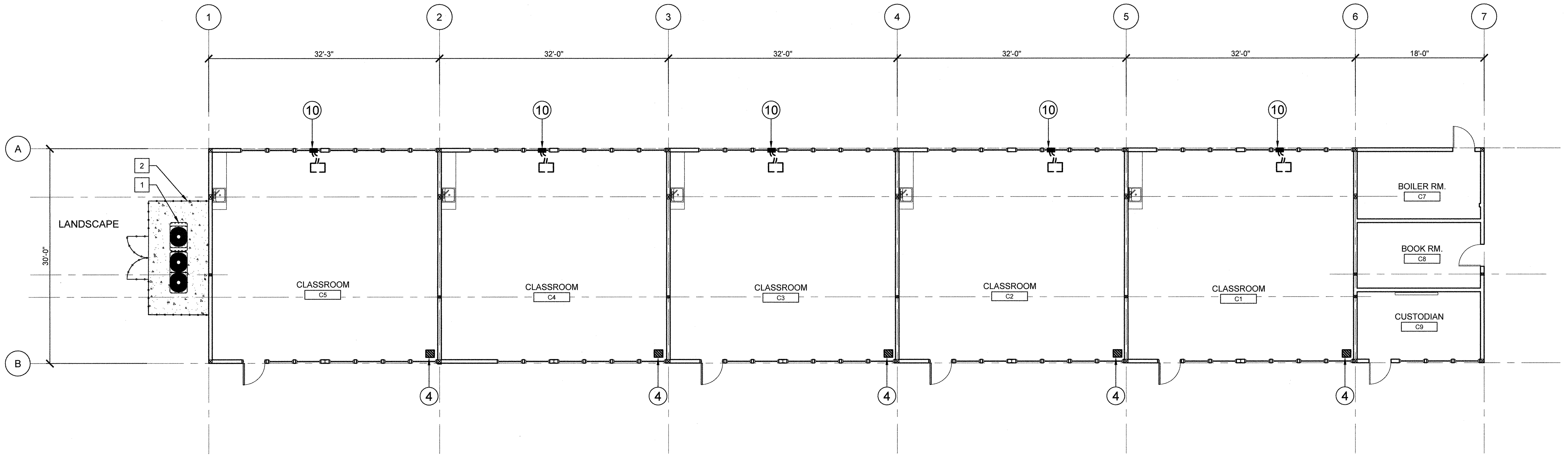
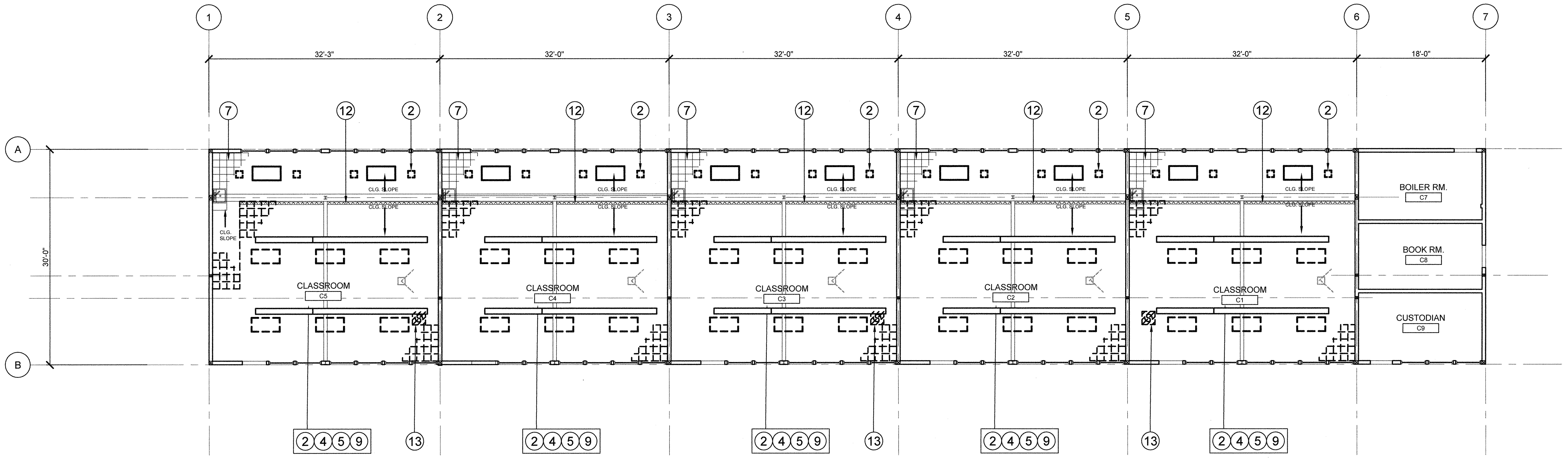


1 DEMOLITION AND NEW FLOOR PLAN - UNIT C

1/8" = 1'-0"

0 2' 4' 8' 16' 24'

REF. NORTH TRUE NORTH



2 DEMOLITION CEILING PLAN - UNIT C

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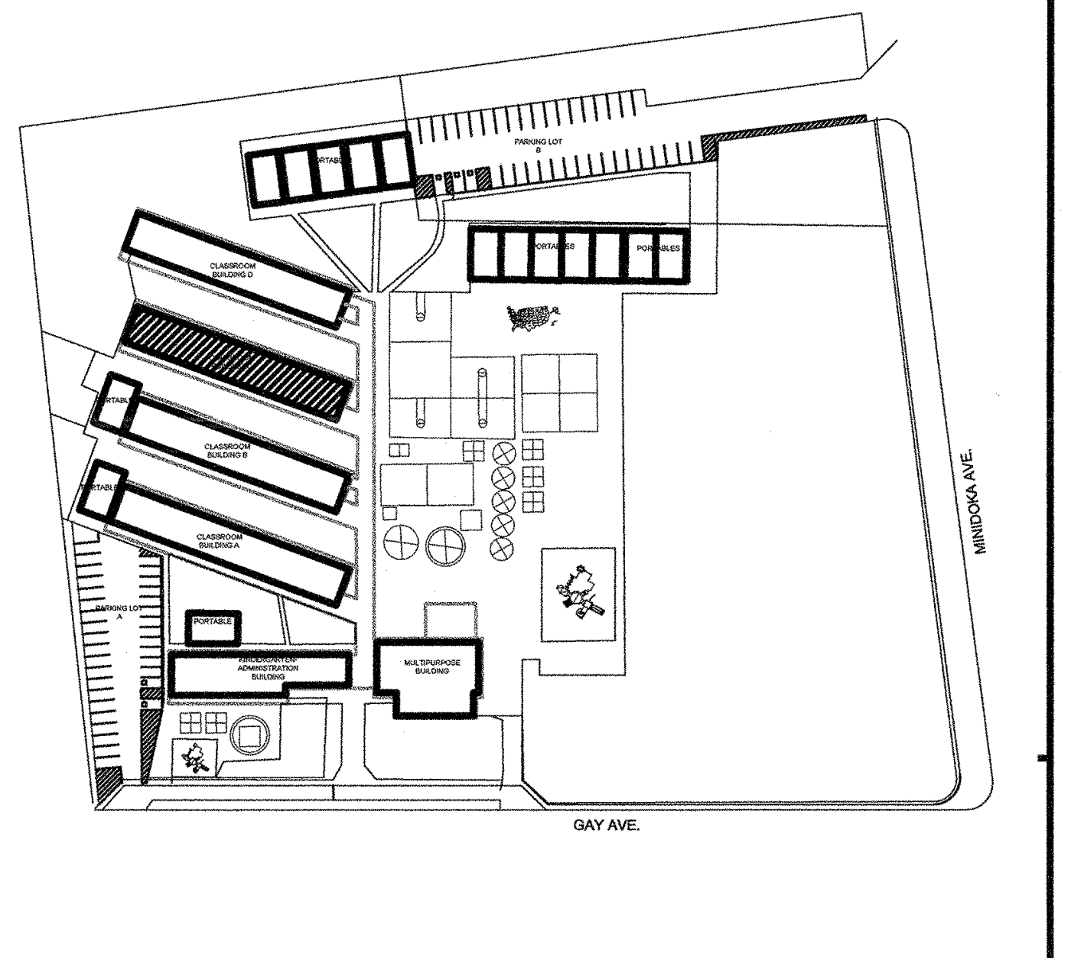
NEW FLOOR PLAN NOTES

1. NEW CONDENSING UNIT OVER NEW CONCRETE PAD, SEE DETAIL 7/A0.2 AND MECHANICAL/PLUMB. AND ELEC. DRAWINGS FOR EXTENT OF WORK.
2. NEW CHAIN LINK FENCE AND GATES, SEE DETAIL 13/A0.2-SIMILAR & 2-5,11/A0.2.

GRAPHIC KEY

▭ (E) STUD WALL

BUILDING KEY



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FAX: 408-377-6066

LICENSED ARCHITECT
MARK C. FINNEY
NO. C-24673
REN. 9-30-19
STATE OF CALIFORNIA

DEMOLITION PLANS
UNIT C - CLASSROOMS

RUSSO-McENTEE ACADEMY- HVAC UPGRADES
2851 GAY AVE., SAN JOSE, CA 95127
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

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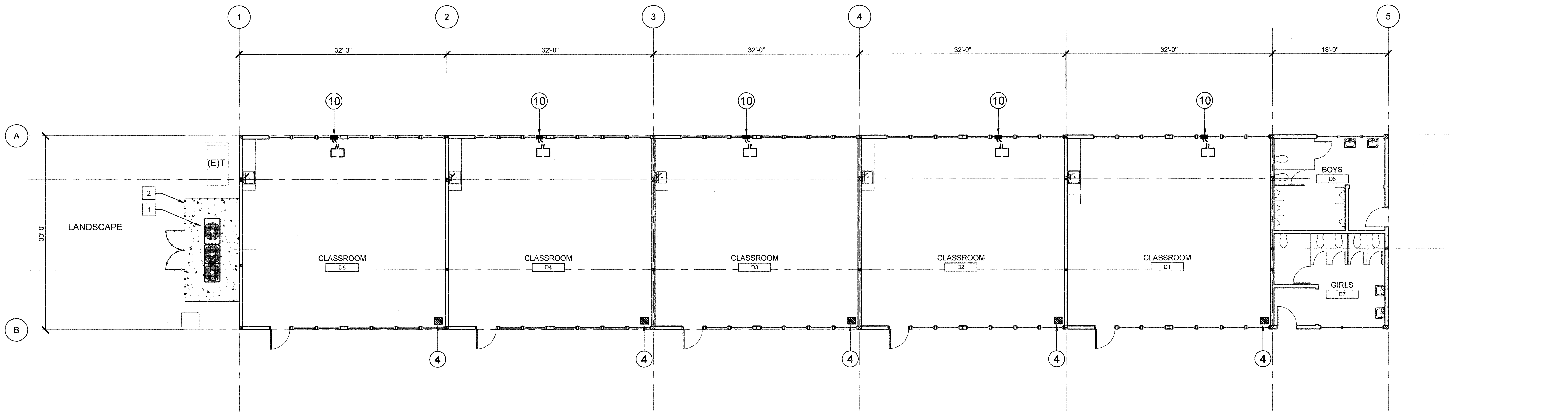

1 DEMOLITION AND NEW FLOOR PLAN - UNIT D

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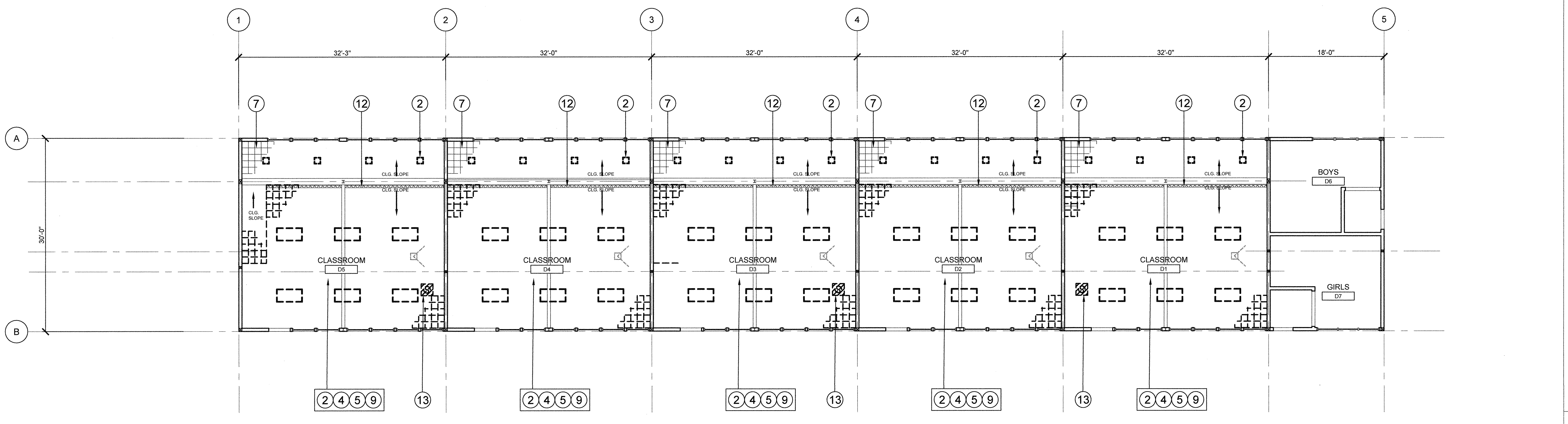

2 DEMOLITION CEILING PLAN - UNIT D

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H. REMOVE EXISTING CEILING MOUNTED PROJECTORS AND REINSTALL PER DETAIL 16/A9.3.

I. REFER TO SHEET A9.1 FOR TYPICAL DETAILS.

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K. COORDINATE LOCATION OF NEW THERMOSTATS IN FIELD, AVOID SWING OF DOORS, CASEWORK, AND WALL MOUNTED EQUIPMENT. SEE MECH. DWGS.

L. ALL ROOF PENETRATIONS REPAIRS MUST BE GARLAND CO. MATERIAL APPROVED, ROOFING CONTRACTOR TO PROVIDE AND INSTALL, TYPICAL.

M. FOR CEILING DETAILS, SEE SHEET A9.2 & A9.3.

N. CONTRACTOR TO REFERENCE DEMOLITION / ABATEMENT REPORT PRIOR TO DEMOLITION WORK.

O. CONTRACTOR IS RESPONSIBLE FOR REMOVAL/DEMOLITION OF (E) CONCRETE PADS AFTER DEMOLITION OF MECHANICAL/PLUMBING EQUIPMENT AND TO REPAIR/PATCH & INFILL CONCRETE SLAB AS NEEDED.

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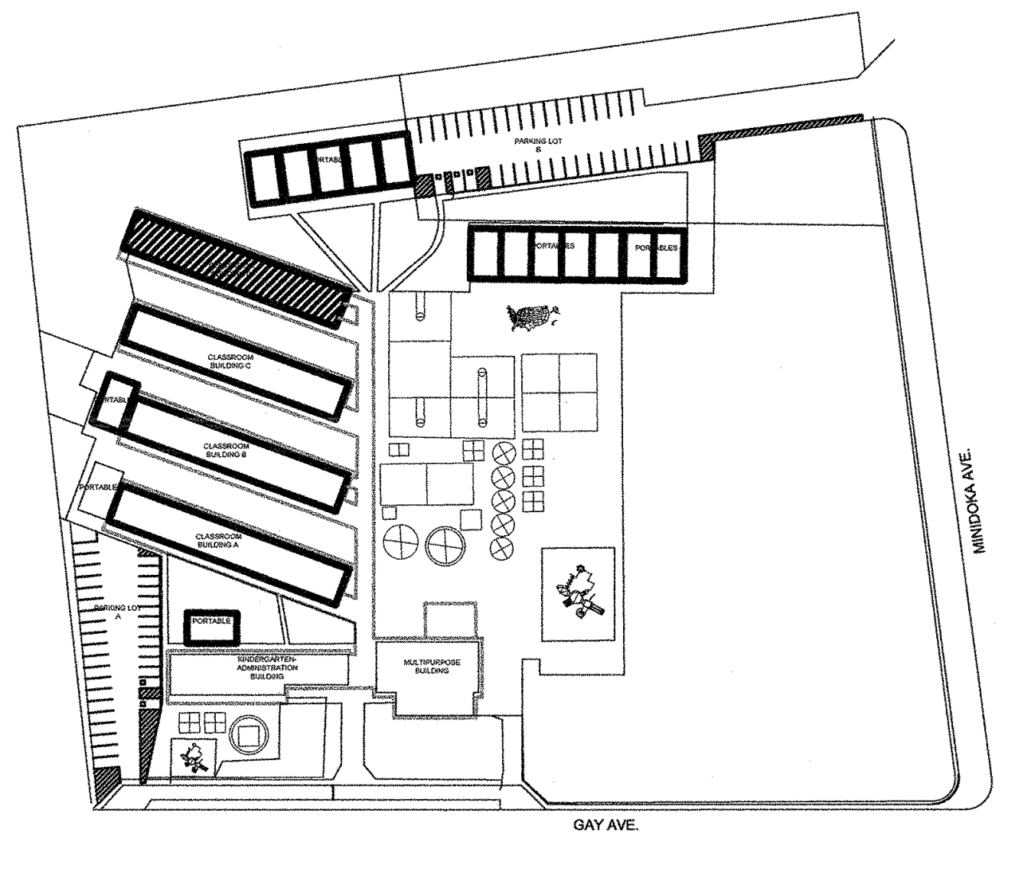

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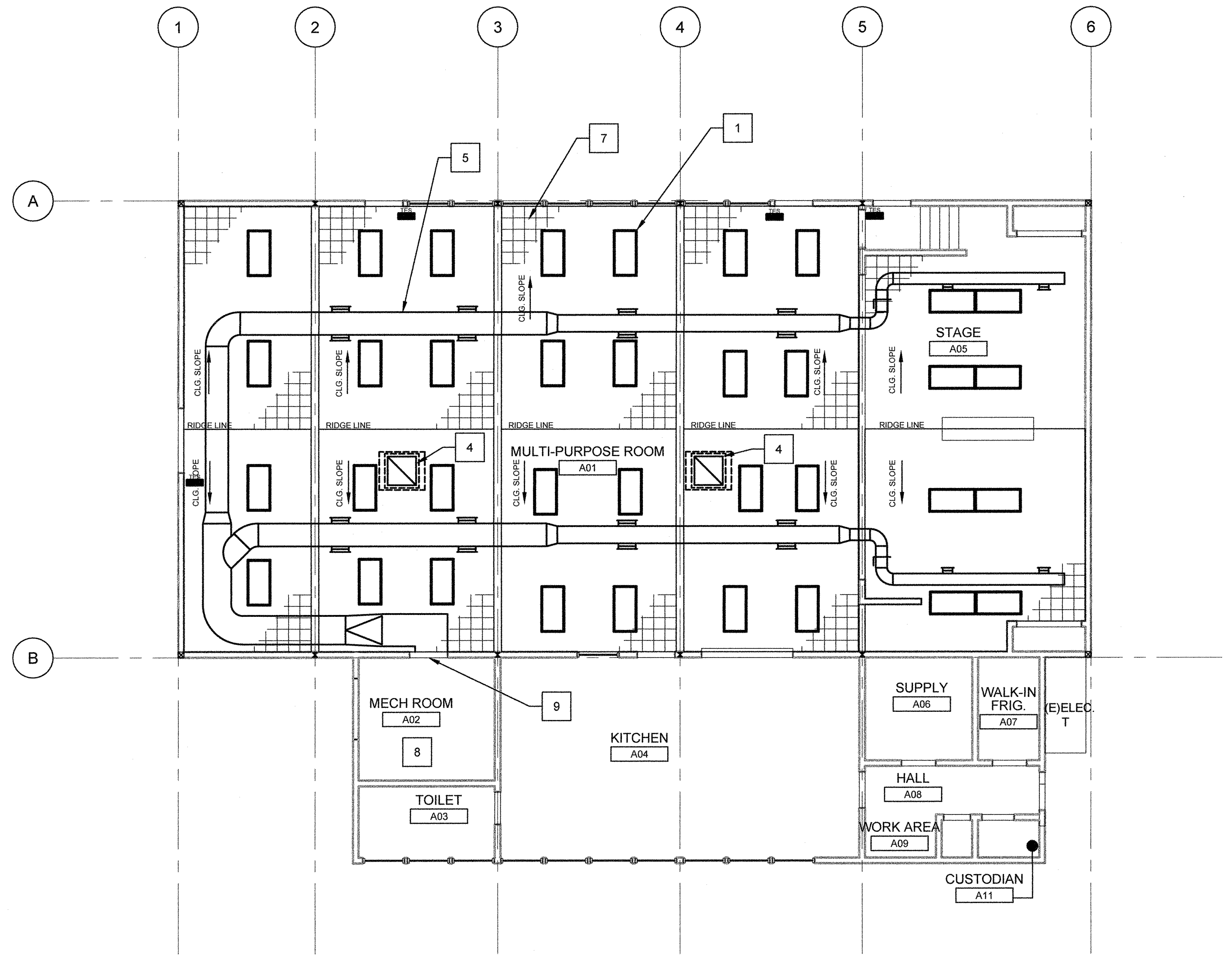


1 REFLECTED CEILING PLAN - BUILDING 1

1/8" = 1'-0"

0 2' 4' 8' 16' 24'

GENERAL NOTES

A. PROVIDE NEW CEILING / ROOF FRAMING R-30 INSULATION WHERE NEW CEILING SYSTEM OCCURS.
B. COORDINATE LOCATION OF NEW THERMOSTATS IN FIELD, AVOID SWING OF DOORS, CASEWORK, AND WALL MOUNTED EQUIPMENT. SEE MECH. DWGS.
L. ALL ROOF PENETRATIONS SHALL BE COORDINATED WITH GARLAND ROOFING INC.
M. FOR CEILING DETAILS, SEE SHEET A9.2 & A9.3.
N. PAINT ALL NEW EXPOSED DUCT, TYP.
O. PAINT ALL EXISTING CEILINGS, WHERE NEW WORK OCCURS, TYP.

REFLECTED CEILING PLAN NOTES

1. NEW LIGHT FIXTURE TYP., SEE ELEC. DWGS.
2. NEW SURFACE MOUNTED LIGHT FIXTURE, TYP. SEE ELECTRICAL DRAWINGS FOR TYPE AND EXTENT OF WORK.
3. PATCH AND PAINT EXISTING GYP. BD. CEILING.
4. NEW ROOF HOOD, PARTIAL DEMOLITION OF ROOF. PATCH AND REPAIR TO MATCH ADJACENT. SEE MECHANICAL DRAWINGS FOR EXTENT OF WORK.
5. NEW EXPOSED DUCT TO RUN BELOW EXISTING BEAMS, PAINT TYP
6. NEW LOUVER, PATCH AND REPAIR INTERIOR AND EXTERIOR TO MATCH ADJACENT.
7. PATCH, REPAIR AND PAINT ALL EXISTING CEILING TILES. INCLUDING ON BEAMS.
8. NEW MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS FOR EXTENT OF WORK.
9. PARTIAL WALL DEMOLITION FOR WALL PENETRATION ABOVE ROOF FOR NEW MECHANICAL EQUIPMENT. PATCH AND REPAIR AFTER INSTALLATION TO MATCH ADJACENT. SEE MECH. DWGS. FOR EXTENT OF WORK.

GRAPHIC KEY

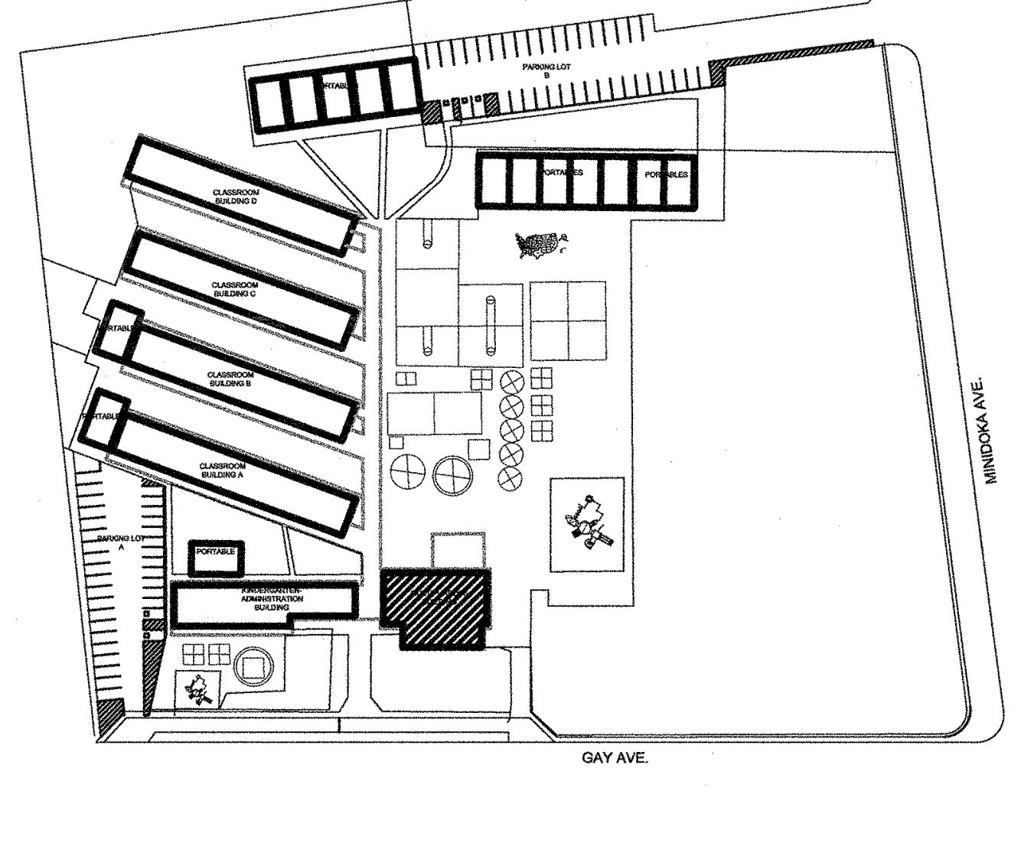
MECHANICAL

☒	SUPPLY DIFFUSER
⧄	RETURN AIR GRILLE
⧄	EXHAUST GRILLE

ELECTRICAL

▭	SURFACE MOUNTED LIGHT FIXTURE
▭	2' X 4' LIGHT FIXTURE
□	2' X 2' LIGHT FIXTURE
○	RECESSED DOWNLIGHT
⊗	EXIT SIGN
SD	SMOKE DETECTOR
TV	TELEVISION AND BRACKET
S	SPEAKER

BUILDING KEY



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NO. C-24673
REN. 9-30-17
STATE OF CALIFORNIA

REFLECTED CEILING PLAN-
MULTI-PURPOSE BUILDING

RUSSO-McENTEE ACADEMY- HVAC UPGRADES
2851 GAY AVE., SAN JOSE, CA 95127
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

REVISIONS

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DSA FILE NUMBER 43-04

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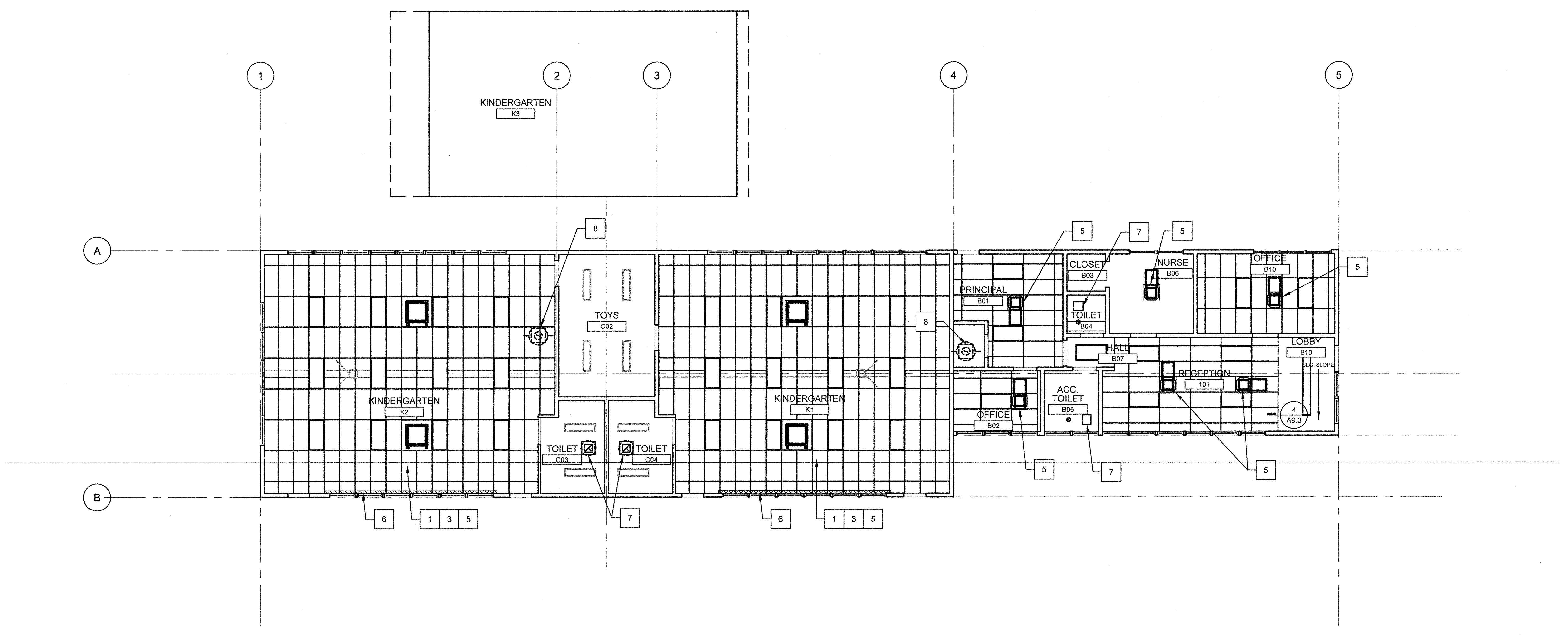
A3.1



1 REFLECTED CEILING PLAN - ADMIN-KINDERGARTEN BUILDING

1/8" = 1'-0"

GENERAL NOTES

- A. PROVIDE NEW CEILING / ROOF FRAMING R-30 INSULATION WHERE NEW CEILING SYSTEM OCCURS.
- B. INSTALL NEW CEILING SYSTEMS AT SAME HEIGHT OF EXISTING, V.I.F.
- C. COORDINATE LOCATION OF NEW THERMOSTATS IN FIELD, AVOID SWING OF DOORS, CASEWORK, AND WALL MOUNTED EQUIPMENT. SEE MECH. DWGS.
- L. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE T-BAR CEILING GRID & PANEL MODIFICATIONS AND NEW SUSPENSION FRAME SYSTEM ACCESSORIES FOR THE INSTALLATION OF THE INDOOR CASSETTE SUPPLY UNITS, COORDINATE WITH AC AND CEILING MANUFACTURER FOR REQUIREMENTS.
- M. ALL ROOF PENETRATIONS MUST BE GARLAND CO. MATERIAL AND APPROVED ROOFING CONTRACTOR TO INSTALL, TYPICAL.
- N. FOR CEILING DETAILS, SEE SHEET A9.2 & A9.3.

REFLECTED CEILING PLAN NOTES

1. NEW LAY-IN ACOUSTICAL PANEL, T-BAR GRID SUSPENDED CEILING SYSTEM, TYP. SEE SHEET A9.2 & A9.3 FOR DETAILS.
2. NEW LIGHT FIXTURE TYP., SEE ELEC. DWGS.
3. NEW SURFACE MOUNTED LIGHT FIXTURE, TYP. SEE ELECTRICAL DRAWINGS FOR TYPE AND EXTENT OF WORK.
4. PATCH AND PAINT EXISTING GYP. BD. CEILING.
5. CASSETTE TYPE FAN COIL UNIT WITH BOTTOM FLUSH WITH FINISHED CEILING, TYP. SEE MECH. DRAWINGS, 1/M6.1.
6. RE-INSTALL WINDOW BLINDS, TYP.
7. NEW EXHAUST FANS, ROOF MOUNT. CONTRACTOR TO PATCH, REPAIR CEILING AND ROOF PENETRATIONS TO MATCH ADJACENT. SEE MECH. DWGS.
8. NEW INTAKE AIR HOOD, ROOF MOUNT WITH ROOF CURB AND CURB SEAL, SEE MECH. DRAWINGS. CONTRACTOR TO PATCH, REPAIR ROOF TO MATCH ADJACENT AFTER INSTALLATION, SEE MECH. DWGS.

GRAPHIC KEY

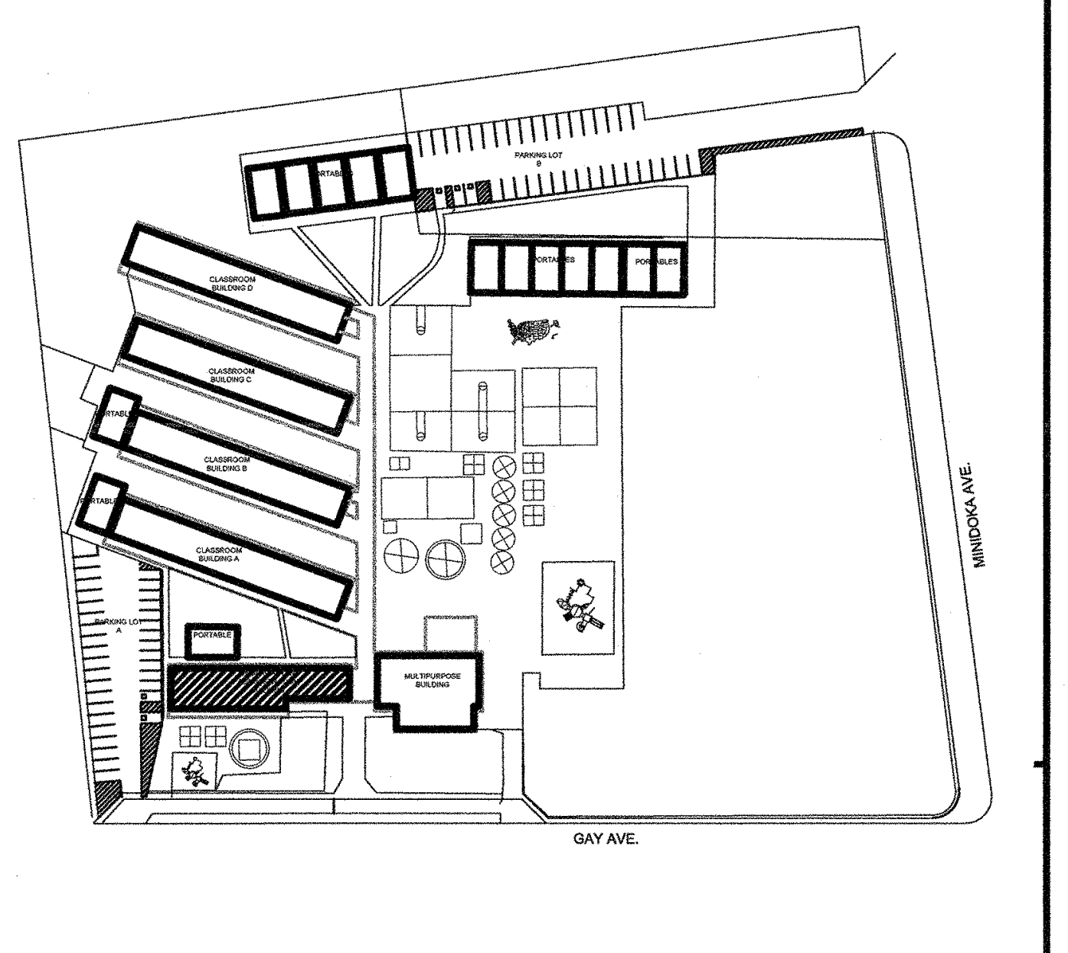
MECHANICAL

☒	SUPPLY DIFFUSER
▨	RETURN AIR GRILLE
☒	EXHAUST GRILLE
▣	CASSETTE SUPPLY UNIT

ELECTRICAL

▭	SURFACE MOUNTED LIGHT FIXTURE
▭	2' X 4' LIGHT FIXTURE
□	2' X 2' LIGHT FIXTURE
○	RECESSED DOWNLIGHT
⊗	EXIT SIGN
SD	SMOKE DETECTOR
TV	TELEVISION AND BRACKET
S	SPEAKER

BUILDING KEY



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REN. 9-30-19
STATE OF CALIFORNIA

REFLECTED CEILING PLAN- ADMINISTRATION/KINDERGARTEN BUILDING

RUSSO-McENTEE ACADEMY- HVAC UPGRADES
2851 GAY AVE., SAN JOSE, CA 95127
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

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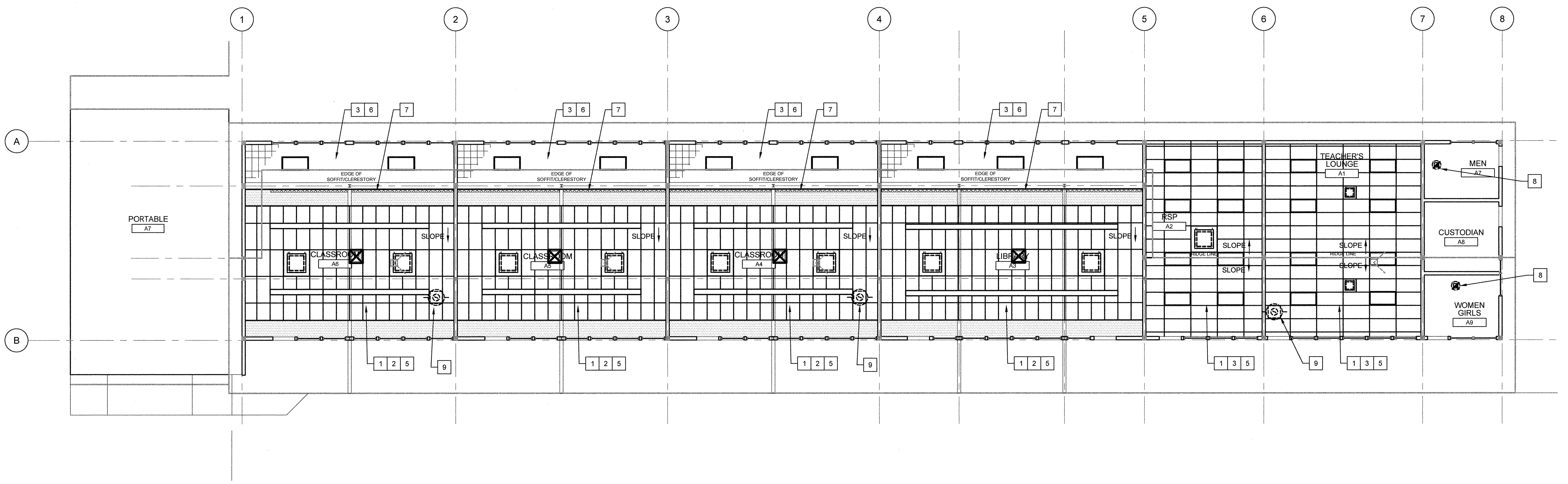
A3.2



1 REFLECTED CEILING PLAN - UNIT A

1/8" = 1'-0"

0 2' 4' 8' 16' 24'

REF NORTH TRUE NORTH

GENERAL NOTES

A. PROVIDE R-30 INSULATION TYP. AT CEILING/ROOF.

B. ALL ROOMS TO RECEIVE NEW CEILING SYSTEMS AND LIGHT FIXTURES TYPICAL, U.O.N. SEE ELECTRICAL AND MECHANICAL DRAWINGS.

C. COORDINATE LOCATION OF NEW THERMOSTATS IN FIELD, AVOID SWING OF DOORS, CASEWORK, AND WALL MOUNTED EQUIPMENT. SEE MECH. DWGS.

D. INSTALL NEW CEILING SYSTEMS TO CLEAR NEW HVAC SYSTEMS, COORDINATE WITH HVAC MANUF. FOR REQUIRED CLEARANCE.

REFLECTED CEILING PLAN NOTES

1. NEW LAY-IN ACOUSTICAL PANEL, T-BAR GRID SUSPENDED CEILING SYSTEM, TYP. SEE SHEET A9.2 & A9.3 FOR DETAILS.
2. NEW LIGHT FIXTURE TYP., SEE ELEC. DWGS.
3. NEW SURFACE MOUNTED LIGHT FIXTURE, TYP. SEE ELECTRICAL DRAWINGS FOR TYPE AND EXTENT OF WORK.
4. PATCH AND PAINT EXISTING GYP. BD. CEILING.
5. CASSETTE TYPE FAN COIL UNIT WITH BOTTOM FLUSH WITH FINISHED CEILING, TYP. SEE MECH. DRAWING 1/M6.1.
6. PATCH/REPAIR AND PAINT EXISTING GLUE-ON ACCOUSTICAL TILES.
7. RE-INSTALL BLINDS. BLINDS TO BE INSTALLED AFTER NEW CEILING INSTALL. COORDINATE WITH ARCHITECT FOR INSTALLATION LOCATION/INSTRUCTIONS.
8. NEW EXHAUST FANS, ROOF MOUNT. CONTRACTOR TO PATCH, REPAIR CEILING AND ROOF PENETRATIONS TO MATCH ADJACENT. SEE MECH. DWGS
9. NEW INTAKE AIR HOOD, ROOF MOUNT WITH ROOF CURB AND CURB SEAL, SEE MECH. DRAWINGS. CONTRACTOR TO PATCH, REPAIR ROOF TO MATCH ADJACENT AFTER INSTALLATION, SEE MECH. DWG.

GRAPHIC KEY

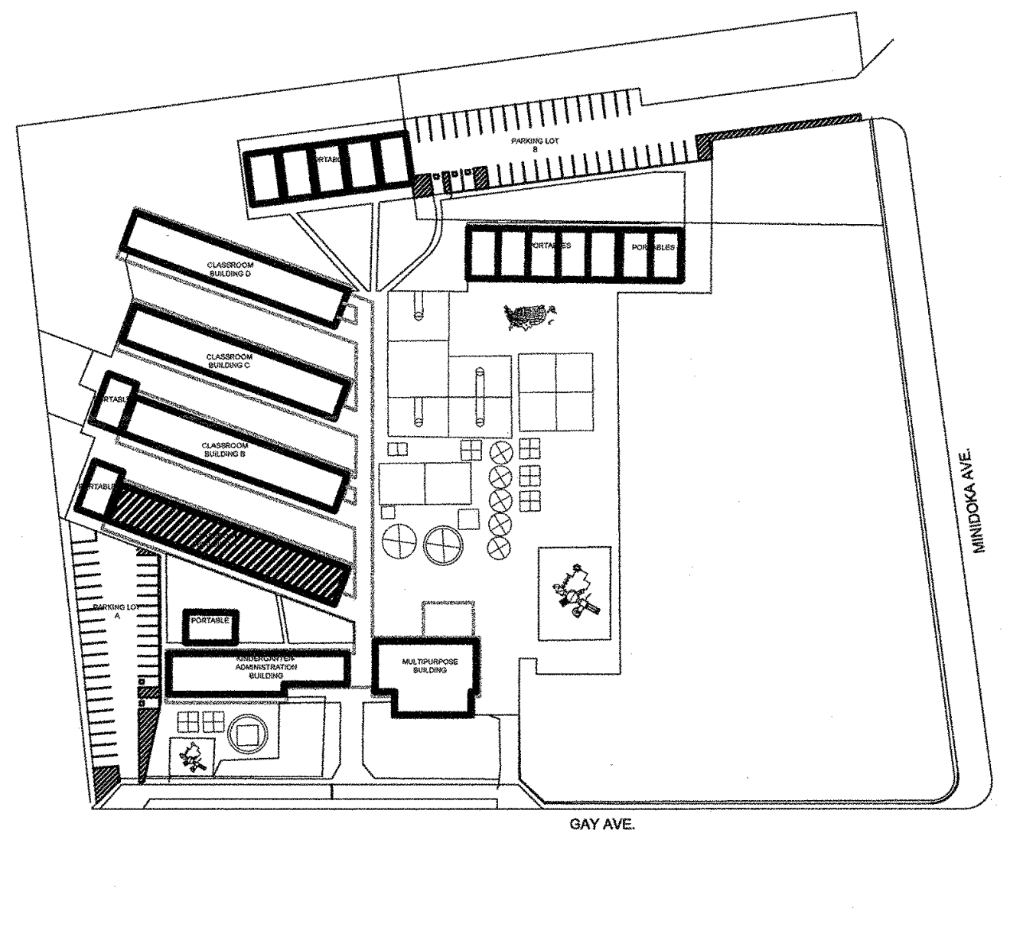
MECHANICAL

☒	SUPPLY DIFFUSER
⧄	RETURN AIR GRILLE
☒	EXHAUST GRILLE
▣	CASSETTE SUPPLY UNIT

ELECTRICAL

▭	SURFACE MOUNTED LIGHT FIXTURE
▭	2' X 4' LIGHT FIXTURE
□	2' X 2' LIGHT FIXTURE
○	RECESSED DOWNLIGHT
⊗	EXIT SIGN
(SD)	SMOKE DETECTOR
TV	TELEVISION AND BRACKET
(S)	SPEAKER

BUILDING KEY



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REN. 9-30-19
STATE OF CALIFORNIA

REFLECTED CEILING PLAN-
UNIT A - CLASSROOMS-LIBRARY

RUSSO-McENTEE ACADEMY- HVAC UPGRADES
2851 GAY AVE., SAN JOSE, CA 95127
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

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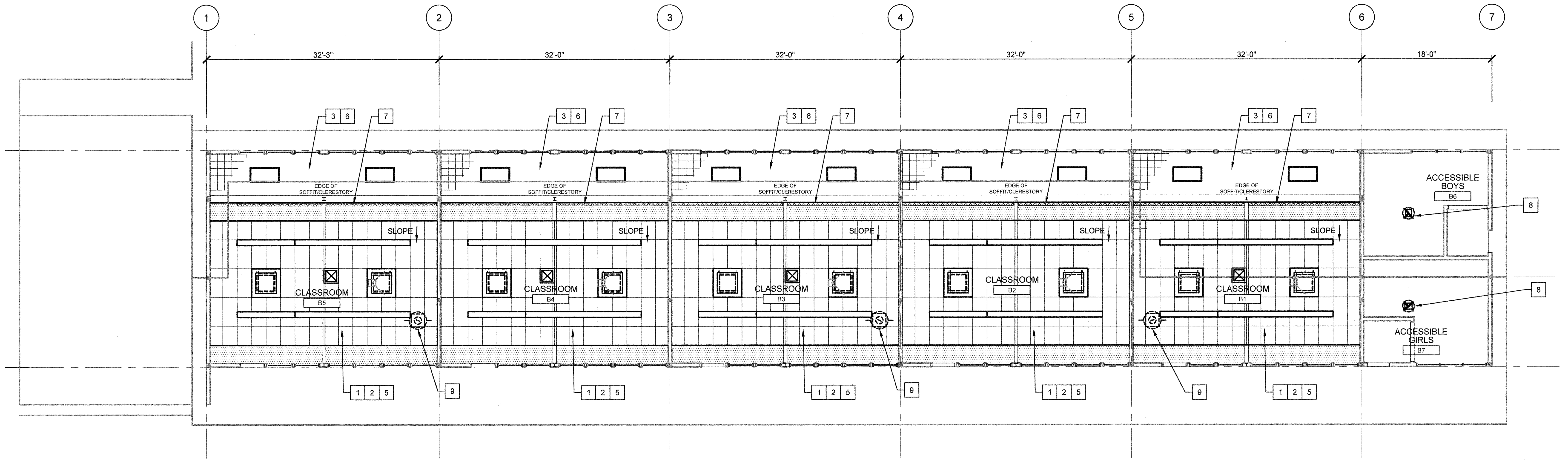
A3.3



1 REFLECTED CEILING PLAN - UNIT B

1/8" = 1'-0"

0 2' 4' 8' 16' 24'

REF NORTH TRUE NORTH

GENERAL NOTES

A. PROVIDE R-30 INSULATION TYP. AT CEILING/ROOF.
B. ALL ROOMS TO RECEIVE NEW CEILING SYSTEMS AND LIGHT FIXTURES TYPICAL, U.O.N. SEE ELECTRICAL AND MECHANICAL DRAWINGS.
C. COORDINATE LOCATION OF NEW THERMOSTATS IN FIELD, AVOID SWING OF DOORS, CASEWORK, AND WALL MOUNTED EQUIPMENT. SEE MECH. DWGS.
D. INSTALL NEW CEILING SYSTEMS TO CLEAR NEW HVAC SYSTEMS, COORDINATE WITH HVAC MANUF. FOR REQUIRED CLEARANCE.

REFLECTED CEILING PLAN NOTES

1. NEW LAY-IN ACOUSTICAL PANEL, T-BAR GRID SUSPENDED CEILING SYSTEM, TYP. SEE SHEET A9.2 & A9.3 FOR DETAILS.
2. NEW LIGHT FIXTURE TYP., SEE ELEC. DWGS.
3. NEW SURFACE MOUNTED LIGHT FIXTURE, TYP. SEE ELECTRICAL DRAWINGS FOR TYPE AND EXTENT OF WORK.
4. PATCH AND PAINT EXISTING GYP. BD. CEILING.
5. CASSETTE TYPE FAN COIL UNIT WITH BOTTOM FLUSH WITH FINISHED CEILING, TYP. SEE MECH. DRAWINGS, 1/M6.1.
6. PATCH/REPAIR AND PAINT EXISTING GLUE-ON ACCOUSTICAL TILES.
7. RE-INSTALL WINDOW BLINDS, TYP.
8. NEW EXHAUST FANS, ROOF MOUNT. CONTRACTOR TO PATCH, REPAIR CEILING AND ROOF PENETRATIONS TO MATCH ADJACENT. SEE MECH. DWGS
9. NEW INTAKE AIR HOOD, ROOF MOUNT WITH ROOF CURB AND CURB SEAL, SEE MECH. DRAWINGS. CONTRACTOR TO PATCH, REPAIR ROOF TO MATCH ADJACENT AFTER INSTALLATION, SEE MECH. DWG.

GRAPHIC KEY

MECHANICAL

☒	SUPPLY DIFFUSER
⧄	RETURN AIR GRILLE
☒	EXHAUST GRILLE
▢	CASSETTE SUPPLY UNIT

ELECTRICAL

▭	SURFACE MOUNTED LIGHT FIXTURE
▭	2' X 4' LIGHT FIXTURE
□	2' X 2' LIGHT FIXTURE
○	RECESSED DOWNLIGHT
⊗	EXIT SIGN
SD	SMOKE DETECTOR
TV	TELEVISION AND BRACKET
S	SPEAKER

BUILDING KEY

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REFLECTED CEILING PLAN-
UNIT B - CLASSROOMS

RUSSO-McENTEE ACADEMY- HVAC UPGRADES
2851 GAY AVE., SAN JOSE, CA 95127
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

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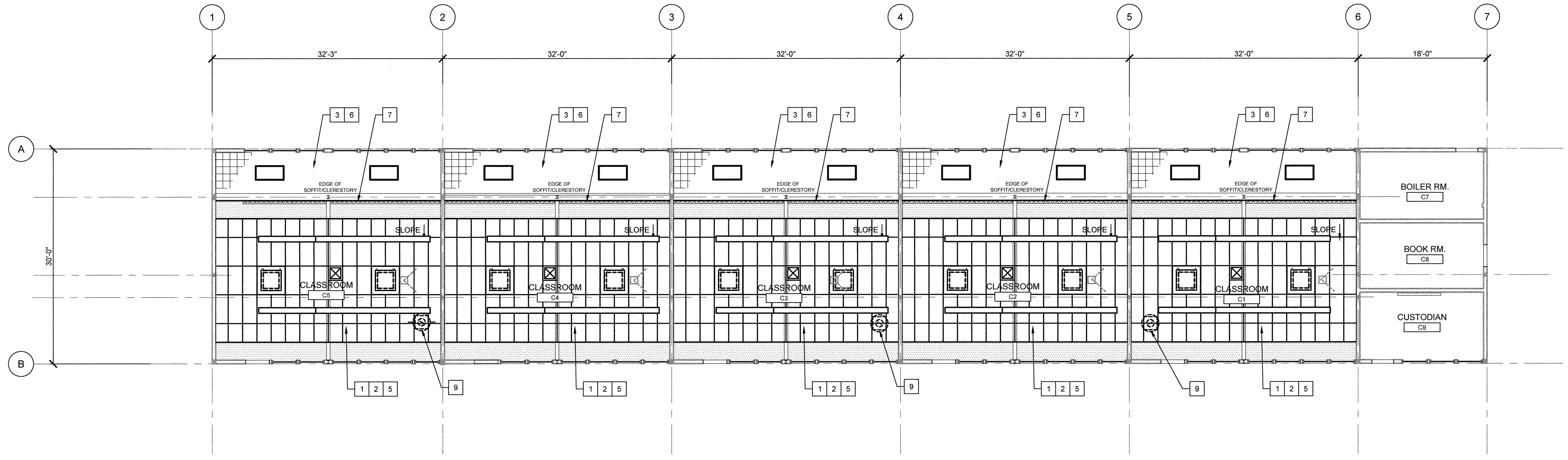
17116	10/16/2017

A3.4



1 REFLECTED CEILING PLAN - UNIT C

1/8" = 1'-0"

GENERAL NOTES

A. PROVIDE R-30 INSULATION TYP. AT CEILING/ROOF.
B. ALL ROOMS TO RECEIVE NEW CEILING SYSTEMS AND LIGHT FIXTURES TYPICAL, U.O.N. SEE ELECTRICAL AND MECHANICAL DRAWINGS.
C. COORDINATE LOCATION OF NEW THERMOSTATS IN FIELD, AVOID SWING OF DOORS, CASEWORK, AND WALL MOUNTED EQUIPMENT. SEE MECH. DWGS.
D. INSTALL NEW CEILING SYSTEMS TO CLEAR NEW HVAC SYSTEMS, COORDINATE WITH HVAC MANUF. FOR REQUIRED CLEARANCE.

REFLECTED CEILING PLAN NOTES

1. NEW LAY-IN ACOUSTICAL PANEL, T-BAR GRID SUSPENDED CEILING SYSTEM, TYP. SEE SHEET A9.2 & A9.3 FOR DETAILS.
2. NEW LIGHT FIXTURE TYP., SEE ELEC. DWGS.
3. NEW SURFACE MOUNTED LIGHT FIXTURE, TYP. SEE ELECTRICAL DRAWINGS FOR TYPE AND EXTENT OF WORK.
4. PATCH AND PAINT EXISTING GYP. BD. CEILING.
5. CASSETTE TYPE FAN COIL UNIT WITH BOTTOM FLUSH WITH FINISHED CEILING, TYP. SEE MECH. DRAWINGS, 1/M6.1.
6. PATCH/REPAIR AND PAINT EXISTING GLUE-ON ACCOUSTICAL TILES.
7. RE-INSTALL BLINDS. BLINDS TO BE INSTALLED AFTER NEW CEILING INSTALL. COORDINATE WITH ARCHITECT FOR INSTALLATION LOCATION/INSTRUCTIONS.
8. NEW EXHAUST FANS, ROOF MOUNT. CONTRACTOR TO PATCH, REPAIR CEILING AND ROOF PENETRATIONS TO MATCH ADJACENT. SEE MECH. DWGS
9. NEW INTAKE AIR HOOD, ROOF MOUNT WITH ROOF CURB AND CURB SEAL, SEE MECH. DRAWINGS. CONTRACTOR TO PATCH, REPAIR ROOF TO MATCH ADJACENT AFTER INSTALLATION, SEE MECH. DWG.

GRAPHIC KEY

MECHANICAL

☒	SUPPLY DIFFUSER
⧄	RETURN AIR GRILLE
☒	EXHAUST GRILLE
▣	CASSETTE SUPPLY UNIT

ELECTRICAL

▭	SURFACE MOUNTED LIGHT FIXTURE
▭	2' X 4' LIGHT FIXTURE
☐	2' X 2' LIGHT FIXTURE
○	RECESSED DOWNLIGHT
⊗	EXIT SIGN
SD	SMOKE DETECTOR
TV	TELEVISION AND BRACKET
S	SPEAKER

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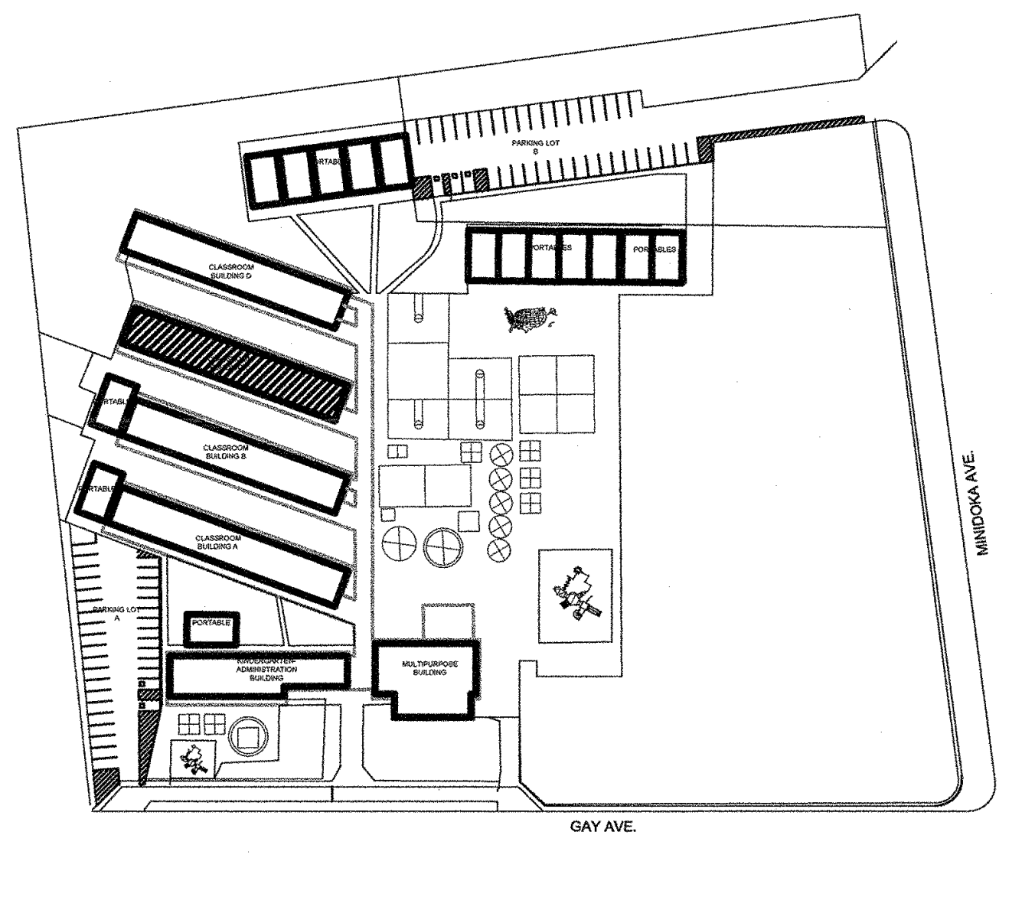

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REN. 9-30-17
STATE OF CALIFORNIA

REFLECTED CEILING PLAN-
UNIT C - CLASSROOMS

RUSSO-McENTEE ACADEMY- HVAC UPGRADES
2851 GAY AVE., SAN JOSE, CA 95127
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

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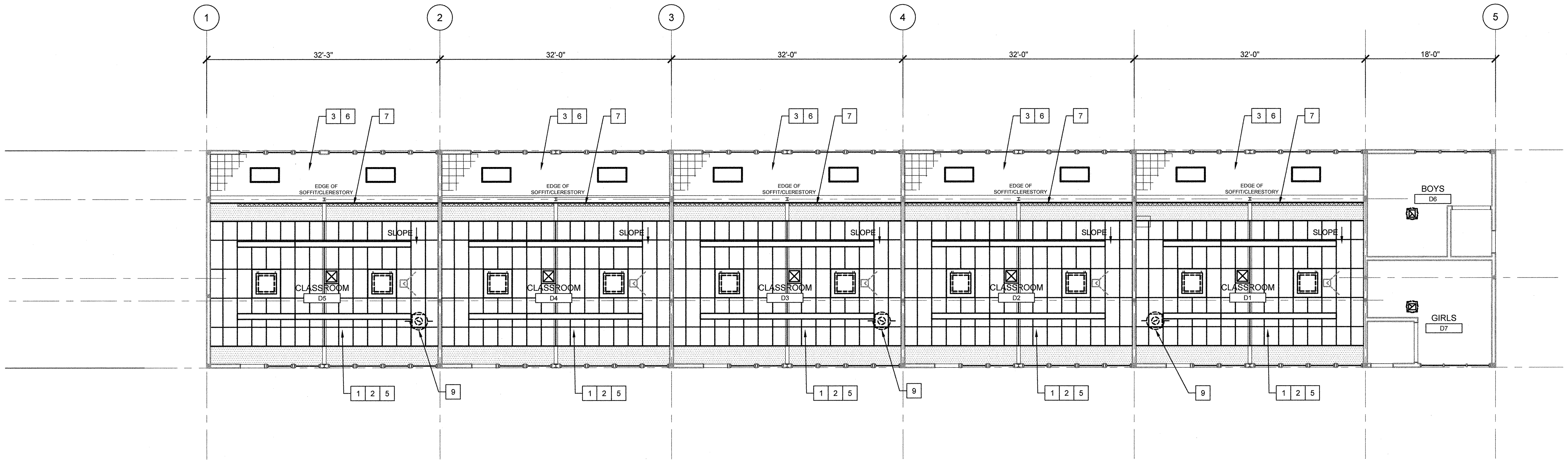
A3.5



1 REFLECTED CEILING PLAN - UNIT D

1/8" = 1'-0"

0 2' 4' 8' 16' 24'

REF NORTH TRUE NORTH

GENERAL NOTES

A. PROVIDE R-30 INSULATION TYP. AT CEILING/ROOF.
B. ALL ROOMS TO RECEIVE NEW CEILING SYSTEMS AND LIGHT FIXTURES TYPICAL, U.O.N. SEE ELECTRICAL AND MECHANICAL DRAWINGS.
C. COORDINATE LOCATION OF NEW THERMOSTATS IN FIELD, AVOID SWING OF DOORS, CASEWORK, AND WALL MOUNTED EQUIPMENT. SEE MECH. DWGS.
D. INSTALL NEW CEILING SYSTEMS TO CLEAR NEW HVAC SYSTEMS, COORDINATE WITH HVAC MANUF. FOR REQUIRED CLEARANCE.

REFLECTED CEILING PLAN NOTES

1. NEW LAY-IN ACOUSTICAL PANEL, T-BAR GRID SUSPENDED CEILING SYSTEM, TYP. SEE SHEET A9.2 & A9.3 FOR DETAILS.
2. NEW LIGHT FIXTURE TYP., SEE ELEC. DWGS.
3. NEW SURFACE MOUNTED LIGHT FIXTURE, TYP. SEE ELECTRICAL DRAWINGS FOR TYPE AND EXTENT OF WORK.
4. PATCH AND PAINT EXISTING GYP. BD. CEILING.
5. CASSETTE TYPE FAN COIL UNIT WITH BOTTOM FLUSH WITH FINISHED CEILING, TYP. SEE MECH. DRAWINGS, 1/M6.1.
6. PATCH/REPAIR AND PAINT EXISTING GLUE-ON ACCOUSTICAL TILES.
7. RE-INSTALL BLINDS. BLINDS TO BE INSTALLED AFTER NEW CEILING INSTALL.
8. NEW EXHAUST FANS, ROOF MOUNT. CONTRACTOR TO PATCH, REPAIR CEILING AND ROOF PENETRATIONS TO MATCH ADJACENT. SEE MECH. DWGS
9. NEW INTAKE AIR HOOD, ROOF MOUNT WITH ROOF CURB AND CURB SEAL, SEE MECH. DRAWINGS. CONTRACTOR TO PATCH, REPAIR ROOF TO MATCH ADJACENT AFTER INSTALLATION, SEE MECH. DWG.

GRAPHIC KEY

MECHANICAL

☒	SUPPLY DIFFUSER
⧄	RETURN AIR GRILLE
⧄	EXHAUST GRILLE
▣	CASSETTE SUPPLY UNIT

ELECTRICAL

▭	SURFACE MOUNTED LIGHT FIXTURE
▭	2' X 4' LIGHT FIXTURE
□	2' X 2' LIGHT FIXTURE
○	RECESSED DOWNLIGHT
⊗	EXIT SIGN
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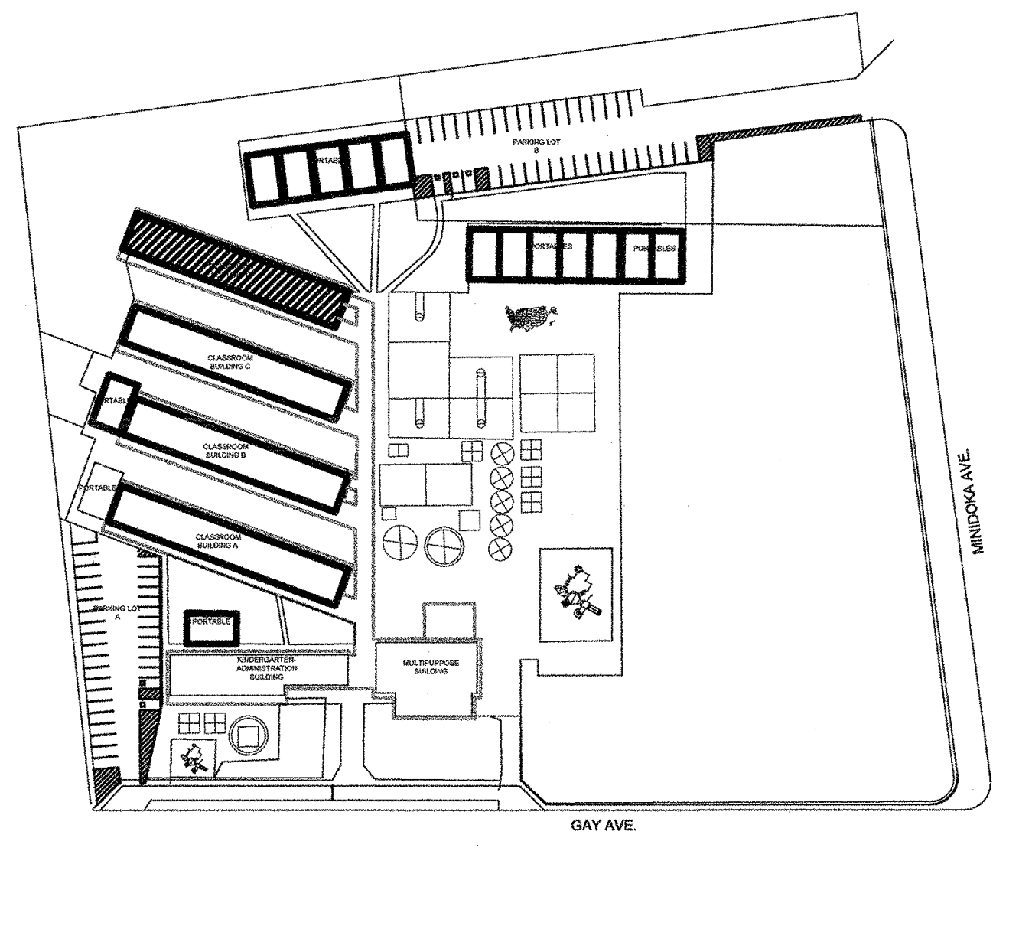

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REN. 9-30-19

REFLECTED CEILING PLAN-
UNIT D - CLASSROOMS

RUSSO-McENTEE ACADEMY- HVAC UPGRADES
2851 GAY AVE., SAN JOSE, CA 95127
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

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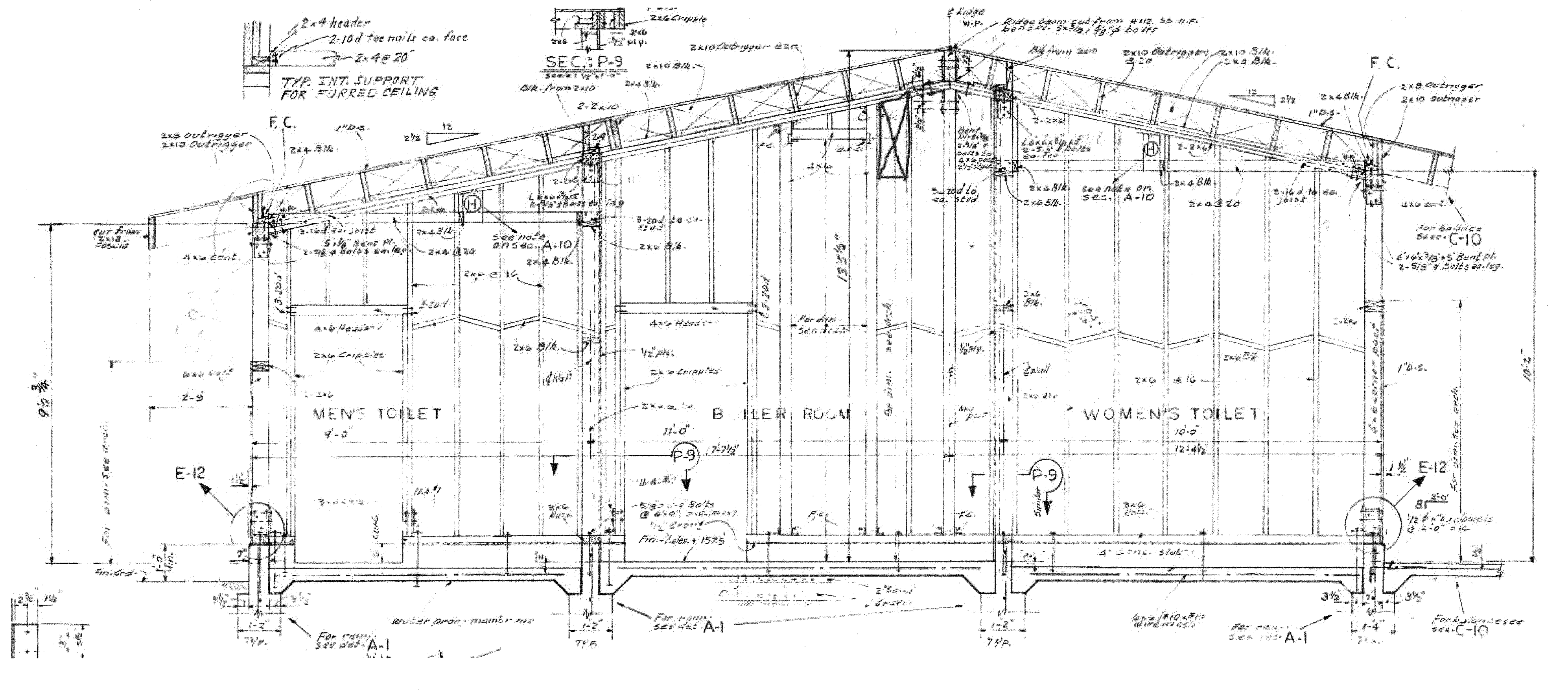
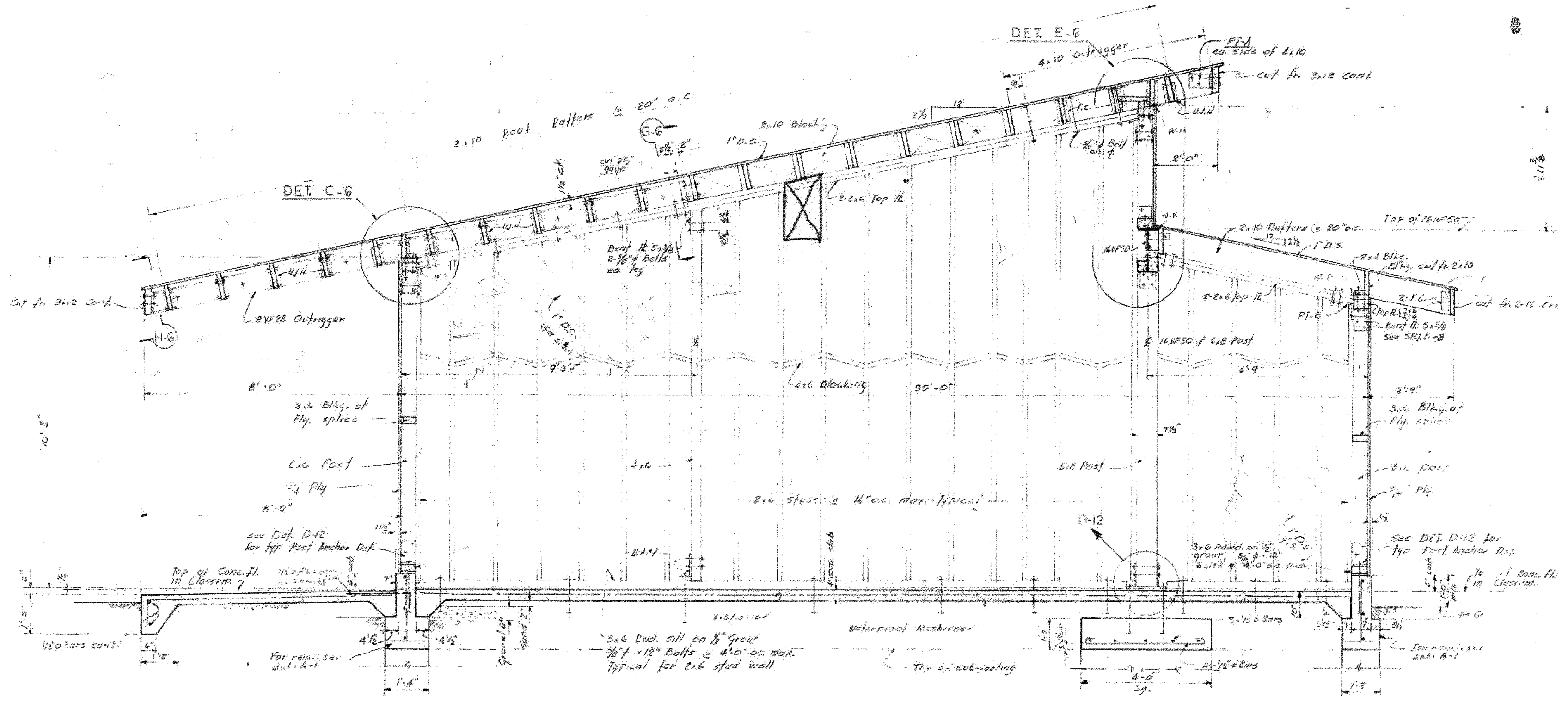
A3.6

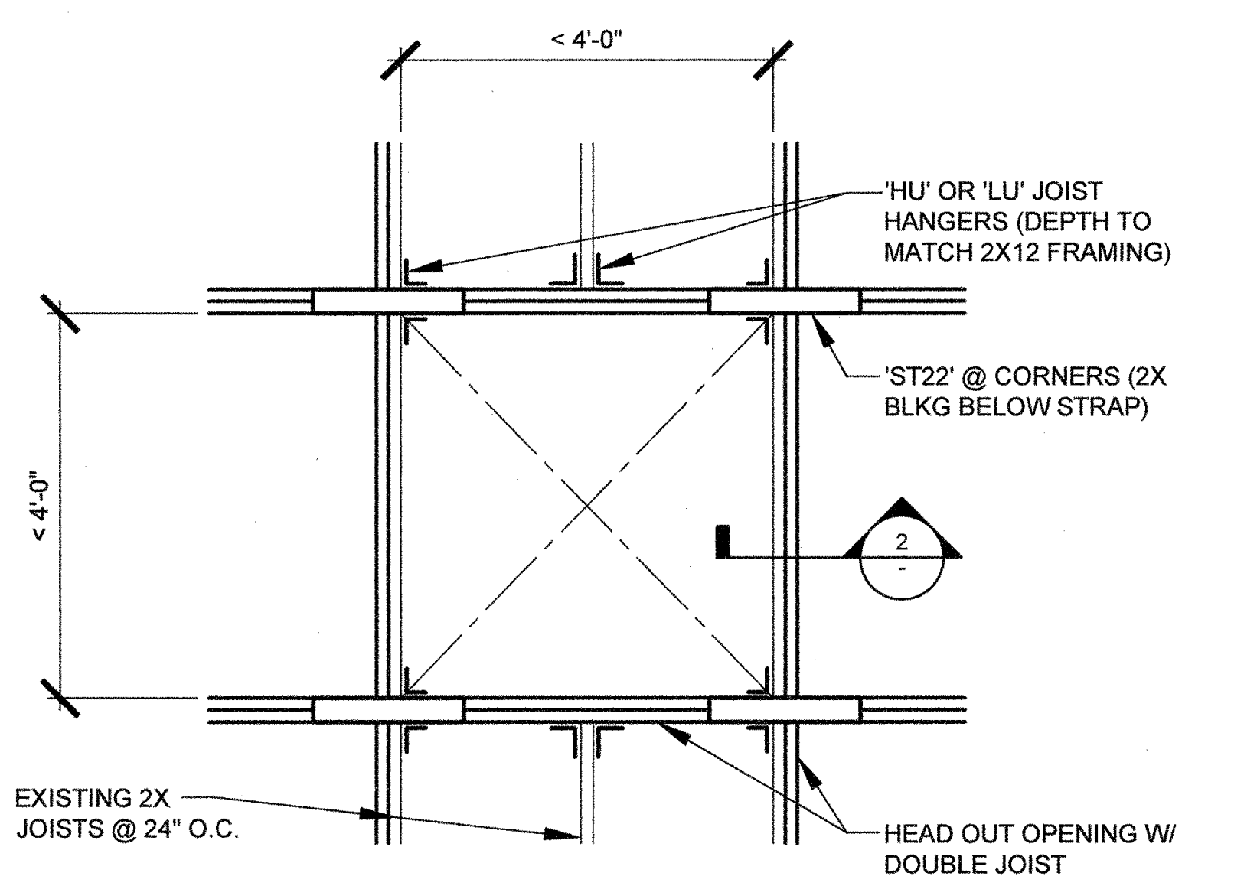




SECTION A-6

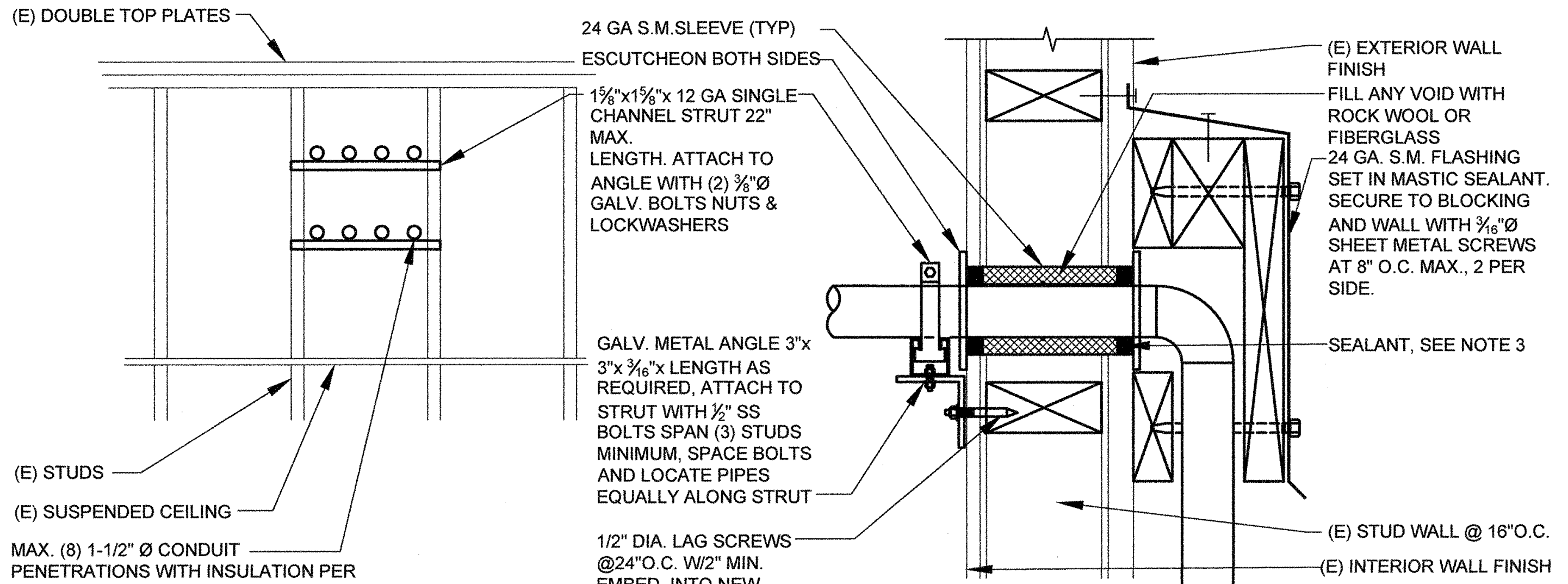
scale 3/8" = 1'-0"

Note: for footing Details & dimensions not indicated see Sect. A-5.


< 4'-0"
< 4'-0"
'HU' OR 'LU' JOIST HANGERS (DEPTH TO MATCH 2X12 FRAMING)
'ST22' @ CORNERS (2X BLKG BELOW STRAP)
2
-
EXISTING 2X JOISTS @ 24" O.C.
HEAD OUT OPENING W/ DOUBLE JOIST

4 TYPICAL ROOF FRAMED OPENING

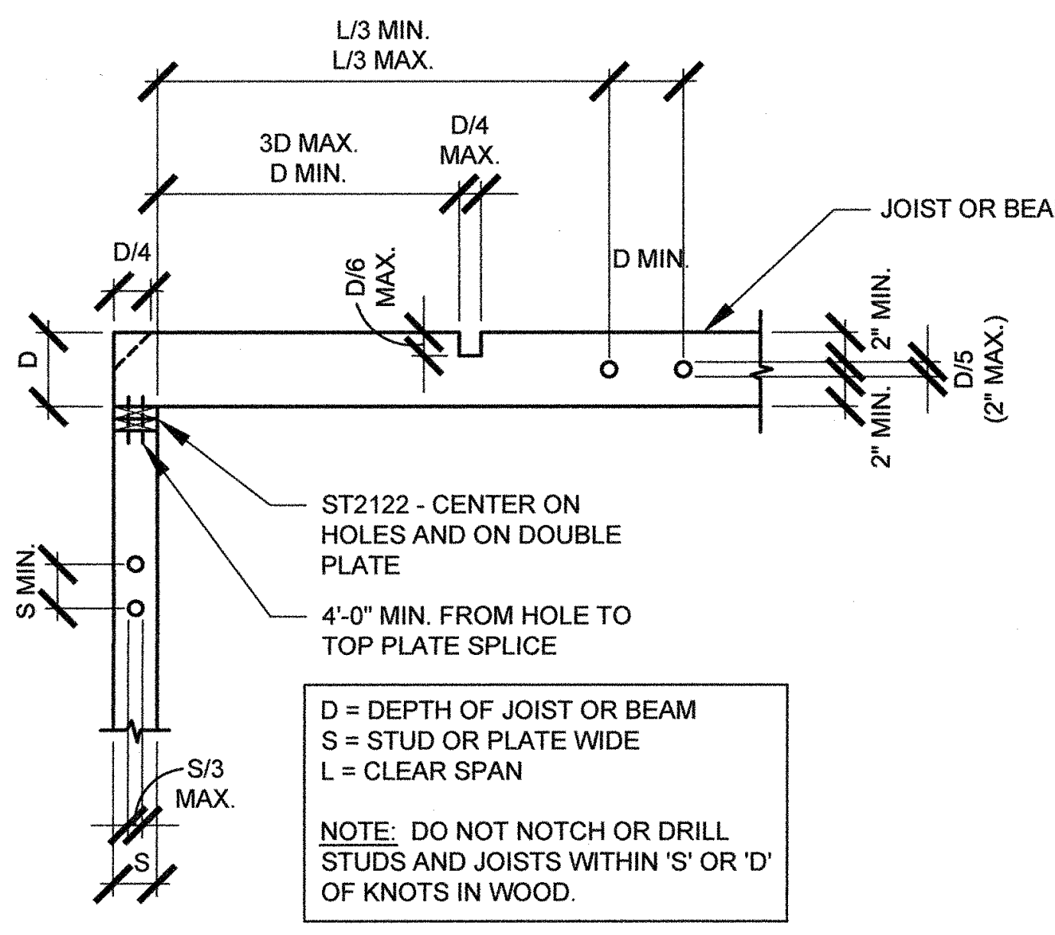
1/2"=1'-0"


(E) DOUBLE TOP PLATES
24 GA S.M.SLEEVE (TYP)
ESCUTCHEON BOTH SIDES
1⅝"x1⅝"x 12 GA SINGLE CHANNEL STRUT 22" MAX. LENGTH. ATTACH TO ANGLE WITH (2) ⅜"Ø GALV. BOLTS NUTS & LOCKWASHERS
(E) EXTERIOR WALL FINISH
FILL ANY VOID WITH ROCK WOOL OR FIBERGLASS
24 GA. S.M. FLASHING SET IN MASTIC SEALANT. SECURE TO BLOCKING AND WALL WITH $\frac{3}{16}$"Ø SHEET METAL SCREWS AT 8" O.C. MAX., 2 PER SIDE.
GALV. METAL ANGLE 3"x 3"x $\frac{3}{16}$"x LENGTH AS REQUIRED, ATTACH TO STRUT WITH ½" SS BOLTS SPAN (3) STUDS MINIMUM, SPACE BOLTS AND LOCATE PIPES EQUALLY ALONG STRUT
SEALANT, SEE NOTE 3
(E) STUDS
(E) SUSPENDED CEILING
MAX. (8) 1-1/2" Ø CONDUIT PENETRATIONS WITH INSULATION PER STUD BAY, SEE M.E.P. DRAWINGS FOR ACTUAL SIZES, TYPICAL. AND STRUCTURAL 10/S8.1.
1/2" DIA. LAG SCREWS @24"O.C. W/2" MIN. EMBED. INTO NEW BLOCKING
(E) STUD WALL @ 16"O.C.
(E) INTERIOR WALL FINISH

NOTE:
1. SEE DETAIL STRUCT. DWGS. FOR PENETRATION LIMITATIONS.
2. AVOID CUTTING (E)STUDS, COLUMNS, & BRACING. PROVIDE UL APPROVED PENETRATION WITH ESCUTCHEON AND WEATHER TIGHT SEAL AS REQUIRED.
3. TWO PART CHEMICAL CURING, GUN GRADE POLYURETHANE SEALANT TYPE II NON SAG.
4. MANUFACTURED WALL SLEEVES MAY BE USED IN PLACE OF CONTRACTOR FABRICATED SLEEVES.

7 CONDUIT SPACING

THRU WALLS 3/4"=1'-0"

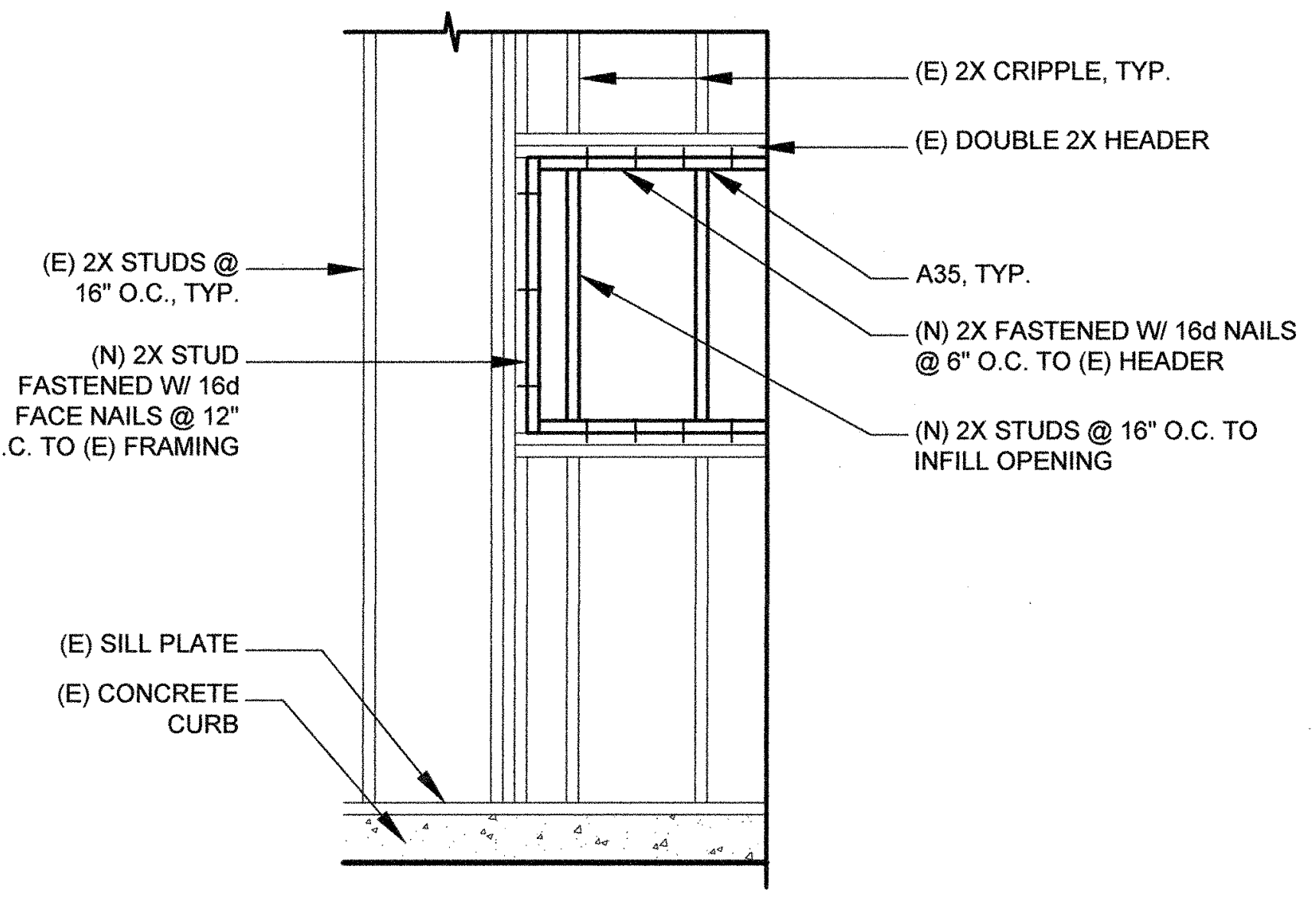


D = DEPTH OF JOIST OR BEAM
S = STUD OR PLATE WIDE
L = CLEAR SPAN

NOTE: DO NOT NOTCH OR DRILL STUDS AND JOISTS WITHIN 'S' OR 'D' OF KNOTS IN WOOD.

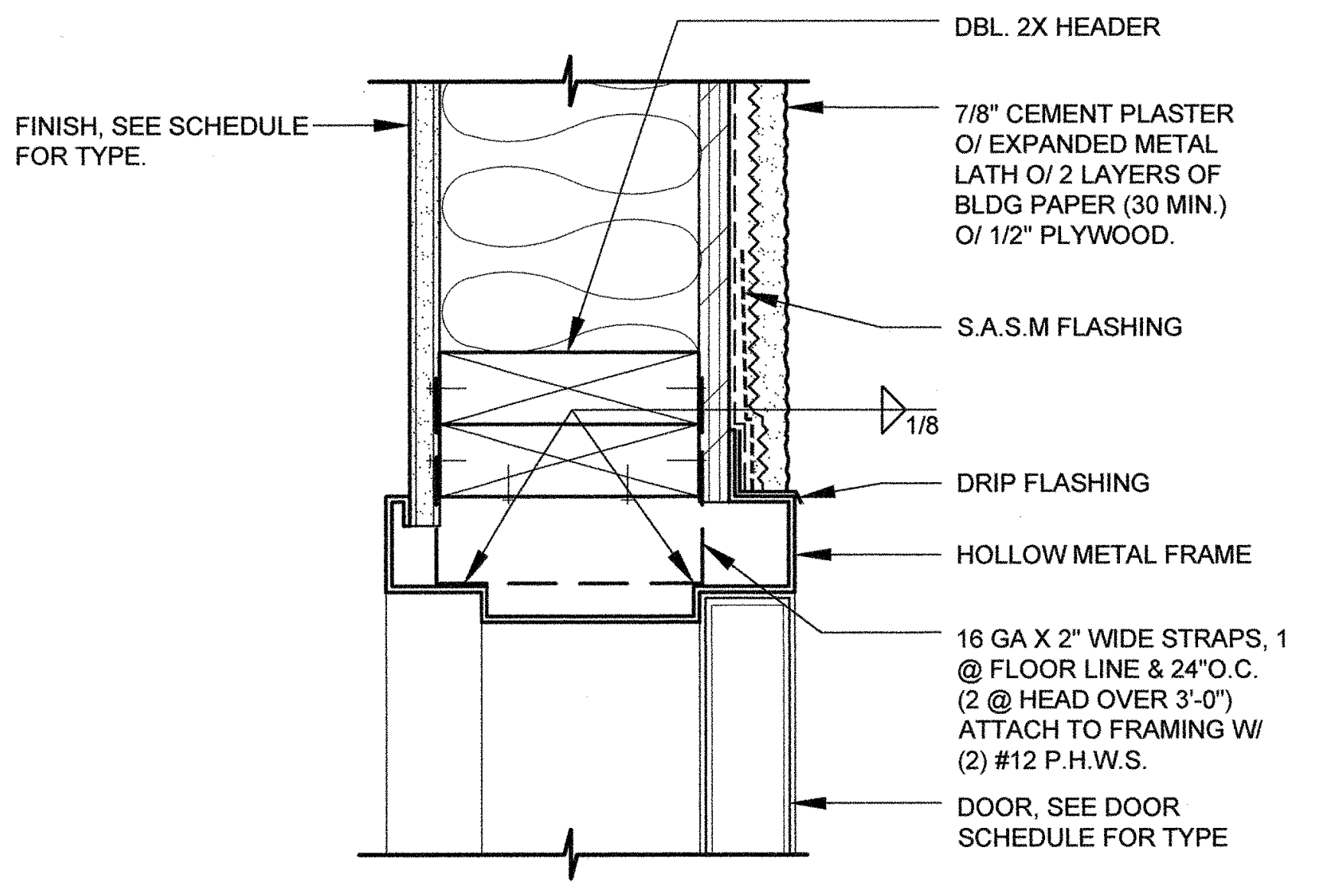
6 HOLES & NOTCHES IN WOOD STUDS, JOISTS, BEAMS & PLATES

1/2"=1'-0"


(E) 2X CRIPPLE, TYP.
(E) DOUBLE 2X HEADER
(E) 2X STUDS @ 16" O.C., TYP.
A35, TYP.
(N) 2X STUD FASTENED W/ 16d FACE NAILS @ 12" O.C. TO (E) FRAMING
(N) 2X FASTENED W/ 16d NAILS @ 6" O.C. TO (E) HEADER
(N) 2X STUDS @ 16" O.C. TO INFILL OPENING
(E) SILL PLATE
(E) CONCRETE CURB

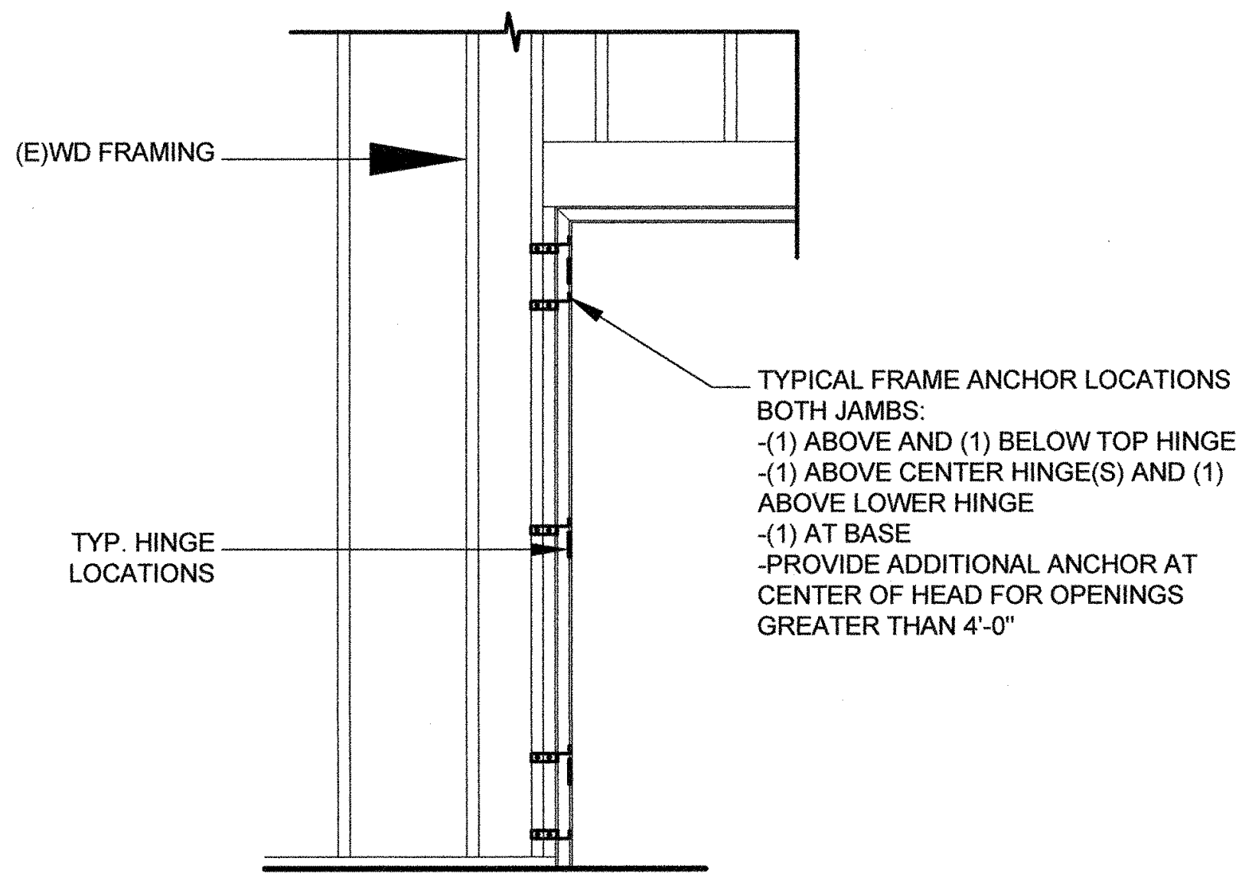
3 INFILL @ (E) WALL OPENING

1/2"=1'-0"


DBL. 2X HEADER
FINISH, SEE SCHEDULE FOR TYPE.
7/8" CEMENT PLASTER O/ EXPANDED METAL LATH O/ 2 LAYERS OF BLDG PAPER (30 MIN.) O/ 1/2" PLYWOOD.
S.A.S.M FLASHING
1/8
DRIP FLASHING
HOLLOW METAL FRAME
16 GA X 2" WIDE STRAPS, 1 @ FLOOR LINE & 24"O.C. (2 @ HEAD OVER 3'-0") ATTACH TO FRAMING W/ (2) #12 P.H.W.S.
DOOR, SEE DOOR SCHEDULE FOR TYPE

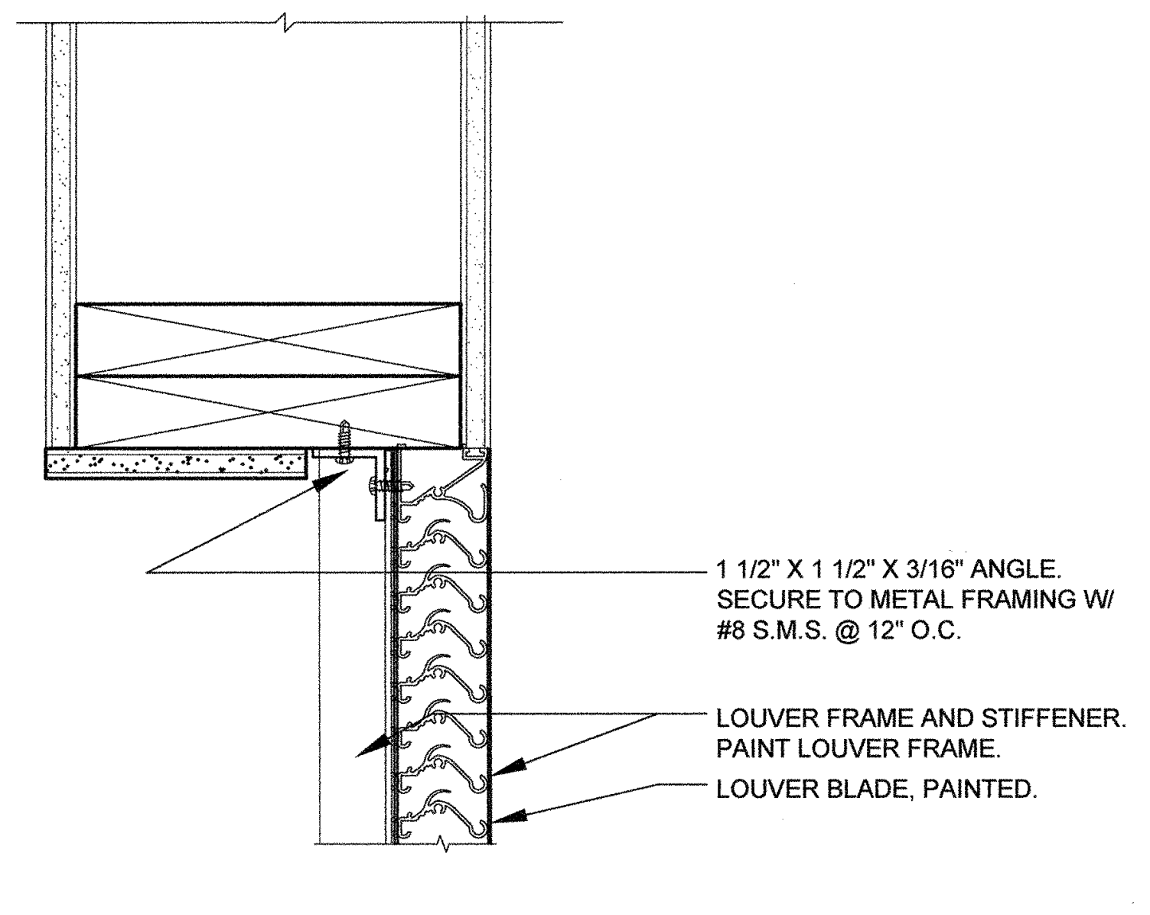
18 TYP. EXTERIOR DOOR HEAD

JAMB SIMILAR 3"=1'-0"


(E)WD FRAMING
TYPICAL FRAME ANCHOR LOCATIONS BOTH JAMBS:
-(1) ABOVE AND (1) BELOW TOP HINGE
-(1) ABOVE CENTER HINGE(S) AND (1) ABOVE LOWER HINGE
-(1) AT BASE
-PROVIDE ADDITIONAL ANCHOR AT CENTER OF HEAD FOR OPENINGS GREATER THAN 4'-0"
TYP. HINGE LOCATIONS

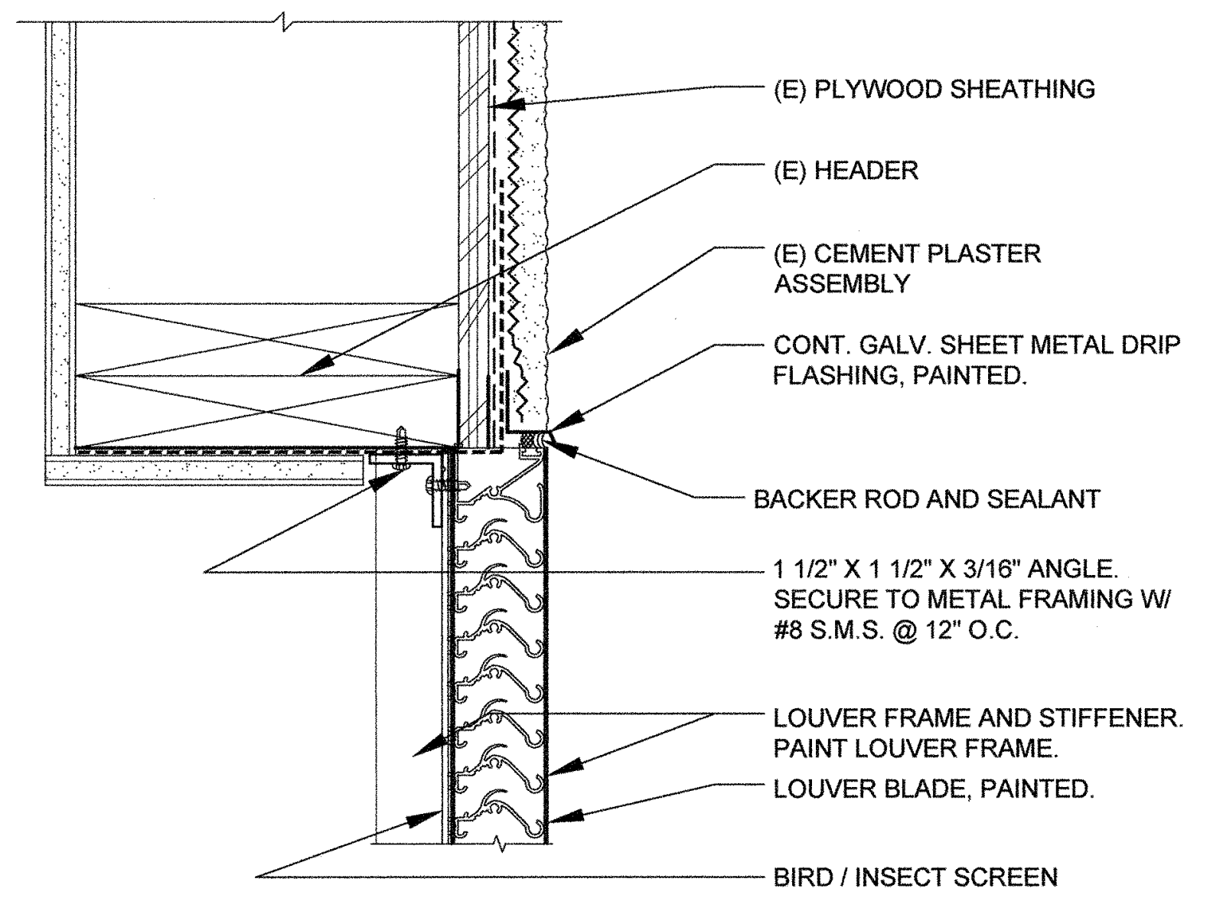
14 FRAME ANCHOR LOCATIONS

1/2"=1'-0"


1 1/2" X 1 1/2" X 3/16" ANGLE. SECURE TO METAL FRAMING W/ #8 S.M.S. @ 12" O.C.
LOUVER FRAME AND STIFFENER. PAINT LOUVER FRAME.
LOUVER BLADE, PAINTED.

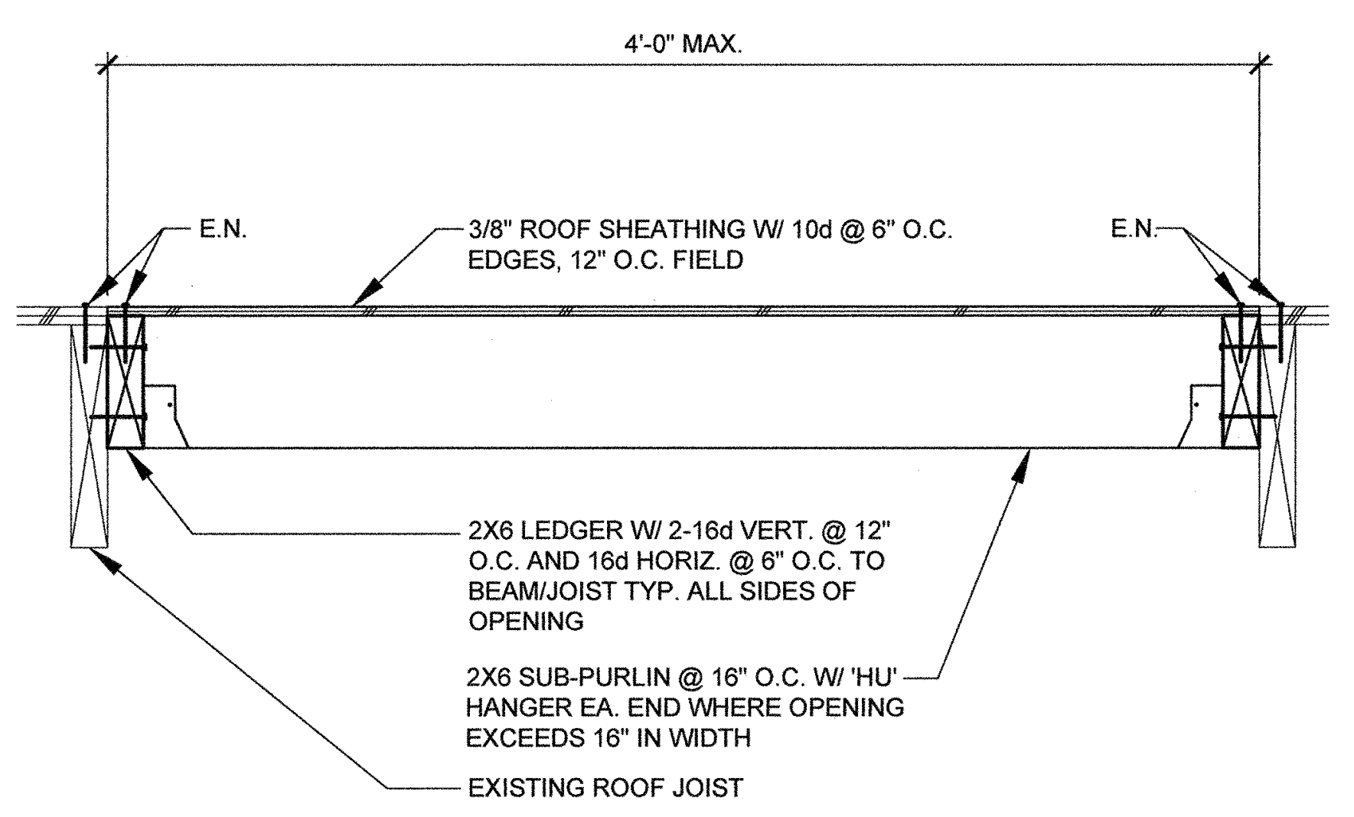
LOUVER OPENING

@ INTERIOR HEAD 3"=1'-0"


(E) PLYWOOD SHEATHING
(E) HEADER
(E) CEMENT PLASTER ASSEMBLY
CONT. GALV. SHEET METAL DRIP FLASHING, PAINTED.
BACKER ROD AND SEALANT
1 1/2" X 1 1/2" X 3/16" ANGLE. SECURE TO METAL FRAMING W/ #8 S.M.S. @ 12" O.C.
LOUVER FRAME AND STIFFENER. PAINT LOUVER FRAME.
LOUVER BLADE, PAINTED.
BIRD / INSECT SCREEN

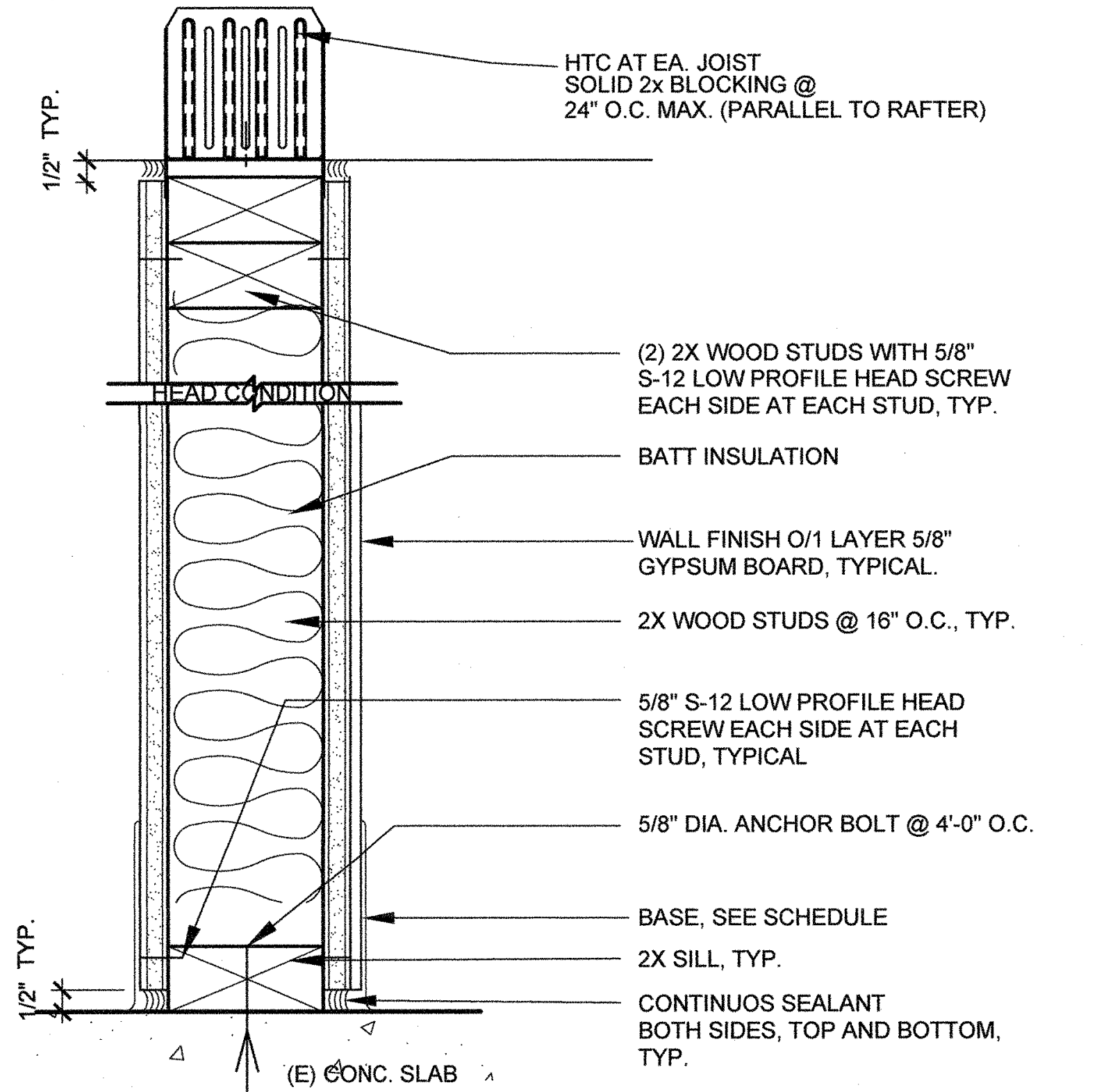
LOUVER OPENING

@ EXTERIOR HEAD 3"=1'-0"


4'-0" MAX.
E.N.
3/8" ROOF SHEATHING W/ 10d @ 6" O.C. EDGES, 12" O.C. FIELD
E.N.
2X6 LEDGER W/ 2-16d VERT. @ 12" O.C. AND 16d HORIZ. @ 6" O.C. TO BEAM/JOIST TYP. ALL SIDES OF OPENING
2X6 SUB-PURLIN @ 16" O.C. W/ 'HU' HANGER EA. END WHERE OPENING EXCEEDS 16" IN WIDTH
EXISTING ROOF JOIST

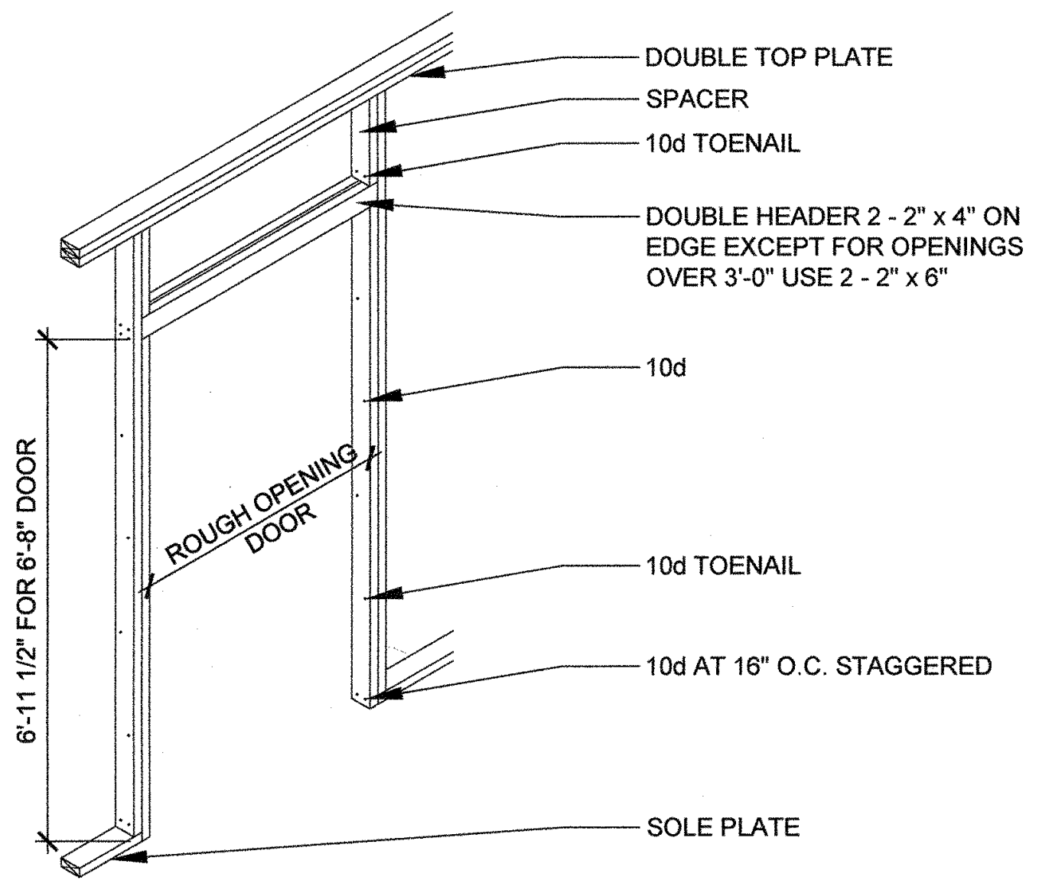
2 (N) INFILL AT (E) ROOF OPENING

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


HTC AT EA. JOIST SOLID 2x BLOCKING @ 24" O.C. MAX. (PARALLEL TO RAFTER)
1/2" TYP.
HEAD CONDITION
(2) 2X WOOD STUDS WITH 5/8" S-12 LOW PROFILE HEAD SCREW EACH SIDE AT EACH STUD, TYP.
BATT INSULATION
WALL FINISH O/1 LAYER 5/8" GYPSUM BOARD, TYPICAL.
2X WOOD STUDS @ 16" O.C., TYP.
5/8" S-12 LOW PROFILE HEAD SCREW EACH SIDE AT EACH STUD, TYPICAL
5/8" DIA. ANCHOR BOLT @ 4'-0" O.C.
BASE, SEE SCHEDULE
2X SILL, TYP.
CONTINUOS SEALANT BOTH SIDES, TOP AND BOTTOM, TYP.
1/2" TYP.
(E) CONC. SLAB

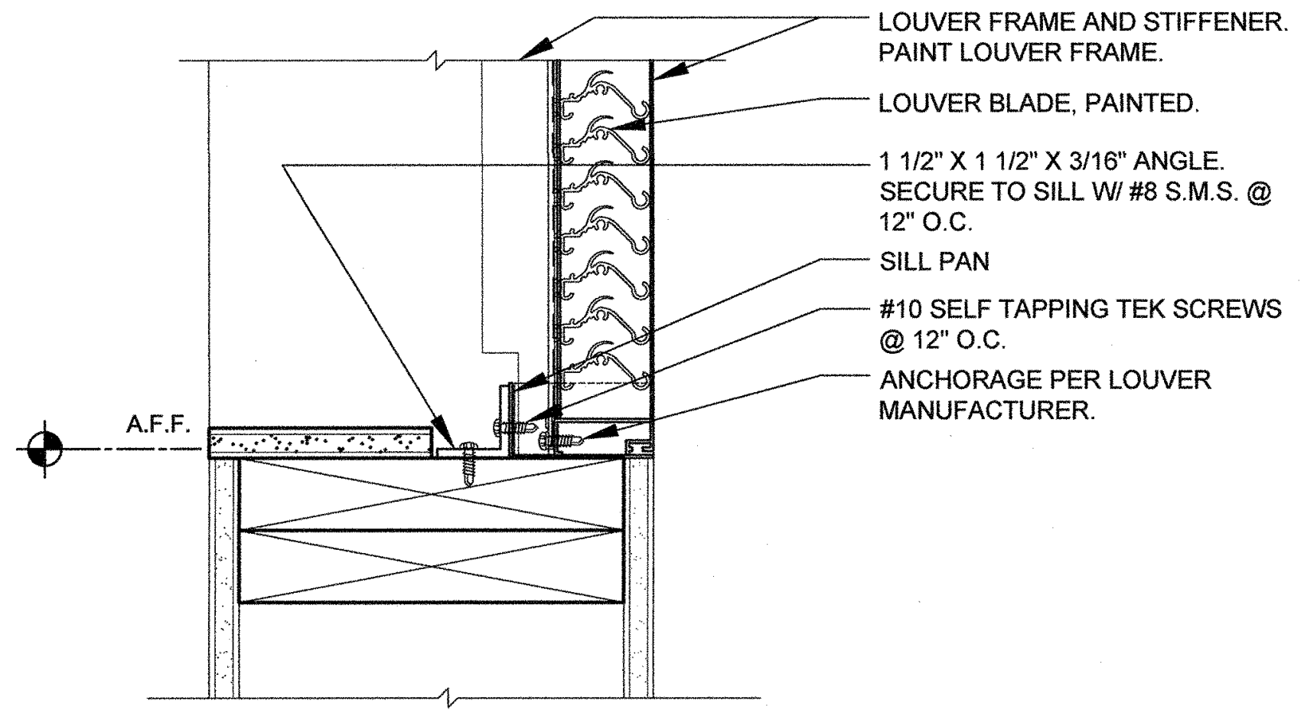
17 NON-STRUCTURAL PARTITION

3"=1'-0"


DOUBLE TOP PLATE
SPACER
10d TOENAIL
DOUBLE HEADER 2 - 2" x 4" ON EDGE EXCEPT FOR OPENINGS OVER 3'-0" USE 2 - 2" x 6"
10d
ROUGH OPENING DOOR
6'-11 1/2" FOR 6'-8" DOOR
10d TOENAIL
10d AT 16" O.C. STAGGERED
SOLE PLATE

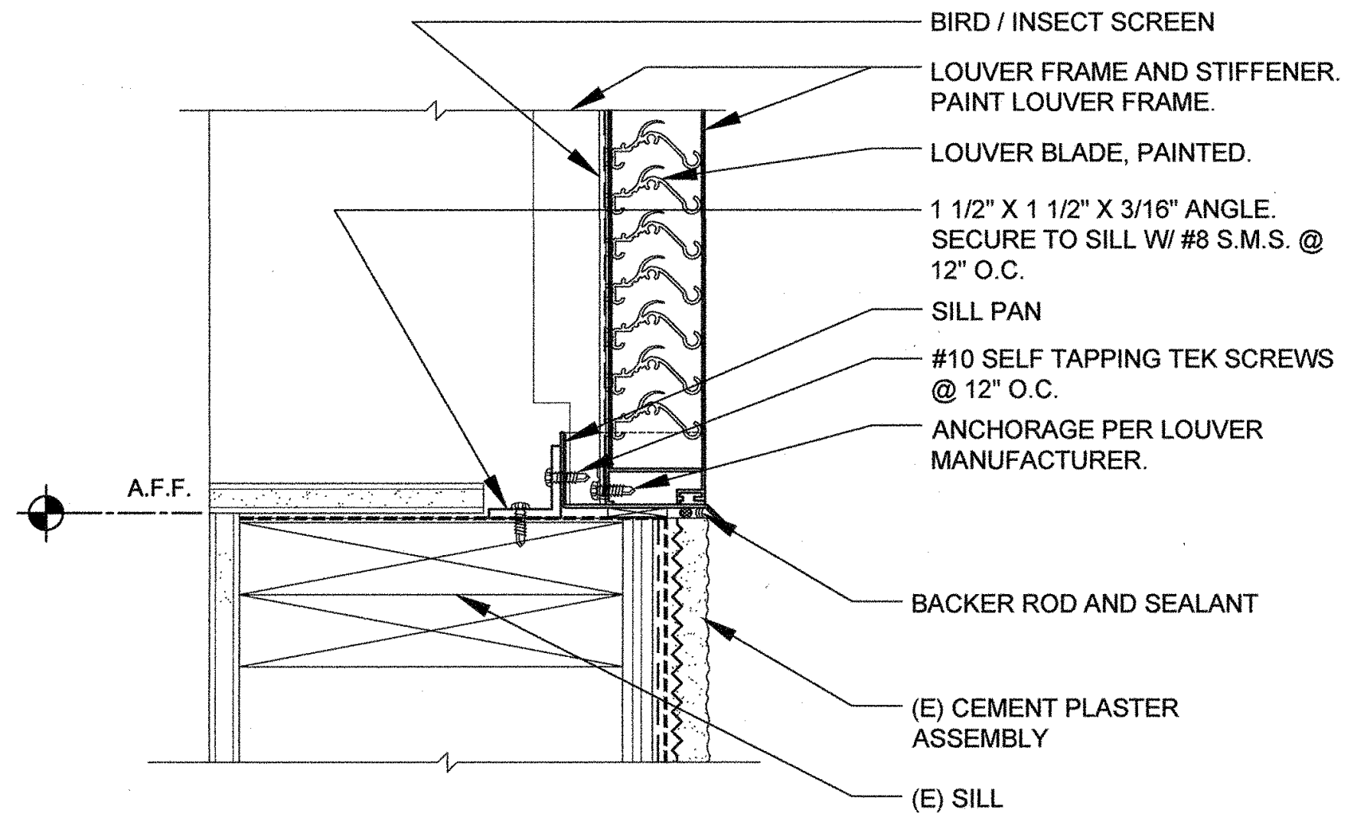
13 DOOR OPENING

3/8"=1'-0"


LOUVER FRAME AND STIFFENER. PAINT LOUVER FRAME.
LOUVER BLADE, PAINTED.
1 1/2" X 1 1/2" X 3/16" ANGLE. SECURE TO SILL W/ #8 S.M.S. @ 12" O.C.
SILL PAN
#10 SELF TAPPING TEK SCREWS @ 12" O.C.
ANCHORAGE PER LOUVER MANUFACTURER.
A.F.F.

LOUVER OPENING

@ INTERIOR SILL 3"=1'-0"


BIRD / INSECT SCREEN
LOUVER FRAME AND STIFFENER. PAINT LOUVER FRAME.
LOUVER BLADE, PAINTED.
1 1/2" X 1 1/2" X 3/16" ANGLE. SECURE TO SILL W/ #8 S.M.S. @ 12" O.C.
SILL PAN
#10 SELF TAPPING TEK SCREWS @ 12" O.C.
ANCHORAGE PER LOUVER MANUFACTURER.
A.F.F.
BACKER ROD AND SEALANT
(E) CEMENT PLASTER ASSEMBLY
(E) SILL

LOUVER OPENING

@ EXTERIOR SILL 3"=1'-0"

5 LOUVER DETAILS

3"=1'-0"

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LICENSED ARCHITECT
MARK C. FINNEY
NO. C-24673
REN. 9-30-17
STATE OF CALIFORNIA

TYPICAL DETAILS

RUSSO-McENTEE ACADEMY - HVAC UPGRADES
2851 GAY AVE., SAN JOSE, CA 95127
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE
	DD SUBMITTAL	12-8-17
	DSA SUBMITTAL	01-31-18
	BID SET	04-09-18
	DSA BACKCHECK	05-22-18

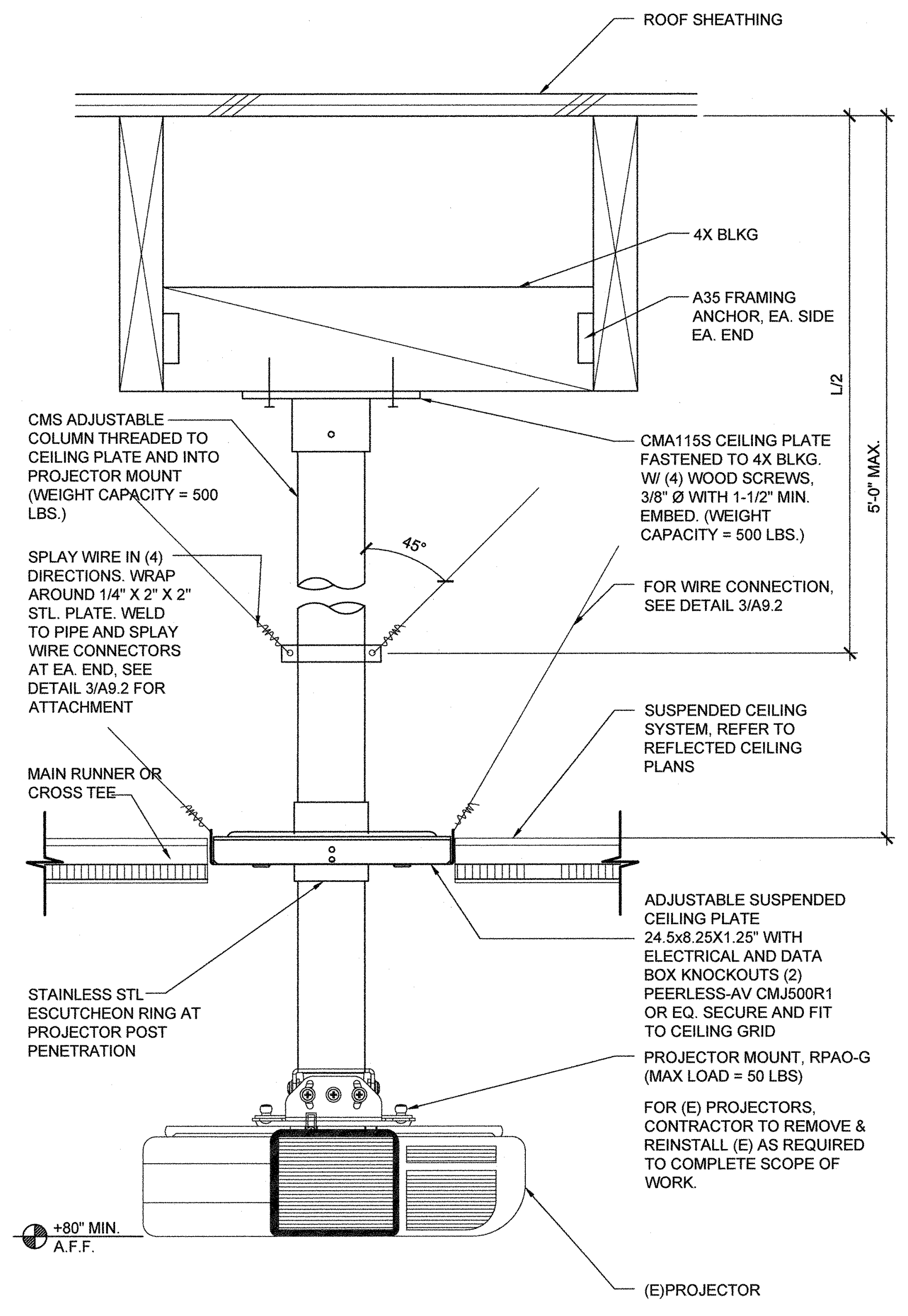
DSA FILE NUMBER 43-04

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APPL 01-117267
AC KG FLS MS SS
DATE MAY 22 2018

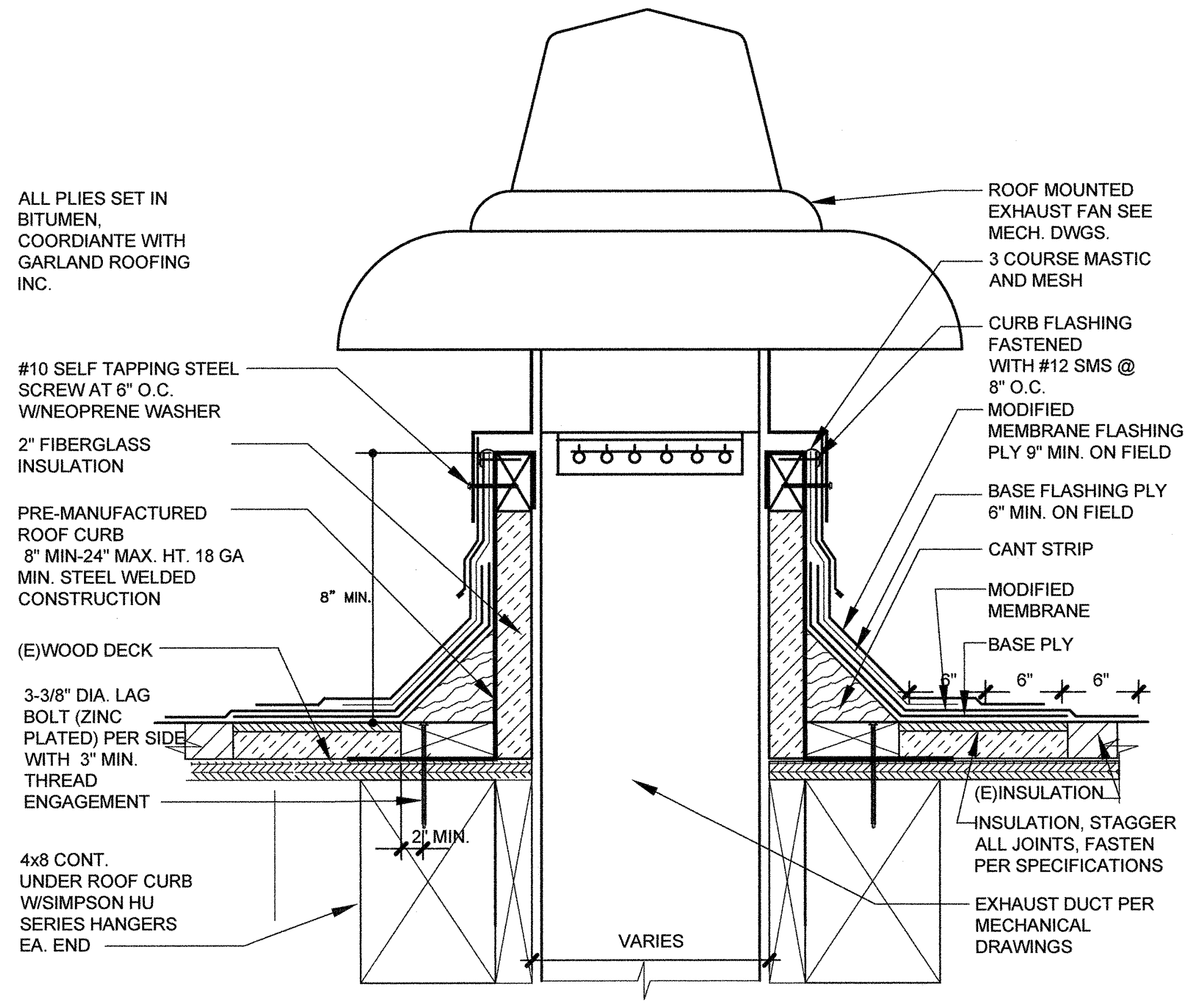
DRAWN BY: KU
CHECKED BY: -
JOB NO: 17116
DATE: 10/16/2017

A9.1


ROOF SHEATHING
4X BLKG
A35 FRAMING ANCHOR, EA. SIDE EA. END
L/2
5'-0" MAX.
CMS ADJUSTABLE COLUMN THREADED TO CEILING PLATE AND INTO PROJECTOR MOUNT (WEIGHT CAPACITY = 500 LBS.)
CMA115S CEILING PLATE FASTENED TO 4X BLKG. W/ (4) WOOD SCREWS, 3/8" Ø WITH 1-1/2" MIN. EMBED. (WEIGHT CAPACITY = 500 LBS.)
45°
SPLAY WIRE IN (4) DIRECTIONS. WRAP AROUND 1/4" X 2" X 2" STL. PLATE. WELD TO PIPE AND SPLAY WIRE CONNECTORS AT EA. END, SEE DETAIL 3/A9.2 FOR ATTACHMENT
FOR WIRE CONNECTION, SEE DETAIL 3/A9.2
SUSPENDED CEILING SYSTEM, REFER TO REFLECTED CEILING PLANS
MAIN RUNNER OR CROSS TEE
ADJUSTABLE SUSPENDED CEILING PLATE 24.5x8.25X1.25" WITH ELECTRICAL AND DATA BOX KNOCKOUTS (2) PEERLESS-AV CMJ500R1 OR EQ. SECURE AND FIT TO CEILING GRID
STAINLESS STL ESCUTCHEON RING AT PROJECTOR POST PENETRATION
PROJECTOR MOUNT, RPAO-G (MAX LOAD = 50 LBS)
FOR (E) PROJECTORS, CONTRACTOR TO REMOVE & REINSTALL (E) AS REQUIRED TO COMPLETE SCOPE OF WORK.
+80" MIN. A.F.F.
(E)PROJECTOR

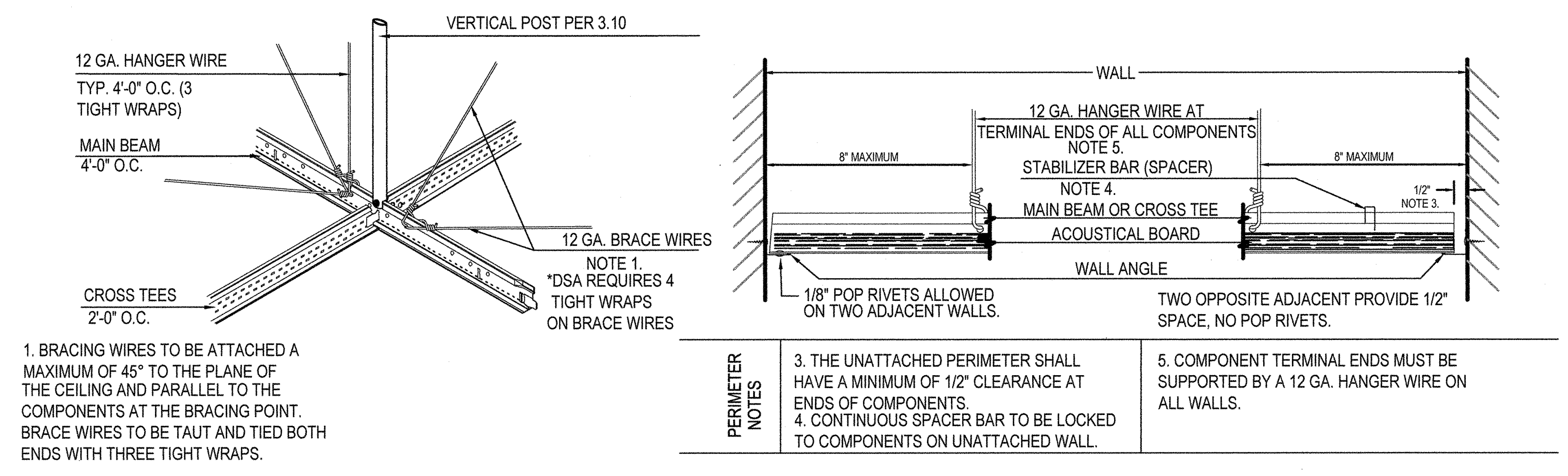
16 PROJECTOR

CEILING CONNECTION 3"=1'-0"


ALL PLIES SET IN BITUMEN, COORDIANTE WITH GARLAND ROOFING INC.
#10 SELF TAPPING STEEL SCREW AT 6" O.C. W/NEOPRENE WASHER
2" FIBERGLASS INSULATION
PRE-MANUFACTURED ROOF CURB 8" MIN-24" MAX. HT. 18 GA MIN. STEEL WELDED CONSTRUCTION
8" MIN.
(E)WOOD DECK
3-3/8" DIA. LAG BOLT (ZINC PLATED) PER SIDE WITH 3" MIN. THREAD ENGAGEMENT
2" MIN.
4x8 CONT. UNDER ROOF CURB W/SIMPSON HU SERIES HANGERS EA. END
VARIES
ROOF MOUNTED EXHAUST FAN SEE MECH. DWGS.
3 COURSE MASTIC AND MESH
CURB FLASHING FASTENED WITH #12 SMS @ 8" O.C.
MODIFIED MEMBRANE FLASHING PLY 9" MIN. ON FIELD
BASE FLASHING PLY 6" MIN. ON FIELD
CANT STRIP
MODIFIED MEMBRANE
BASE PLY
6"
6"
6"
(E)INSULATION
INSULATION, STAGGER ALL JOINTS, FASTEN PER SPECIFICATIONS
EXHAUST DUCT PER MECHANICAL DRAWINGS

14 EXHAUST FAN

3"=1'-0"

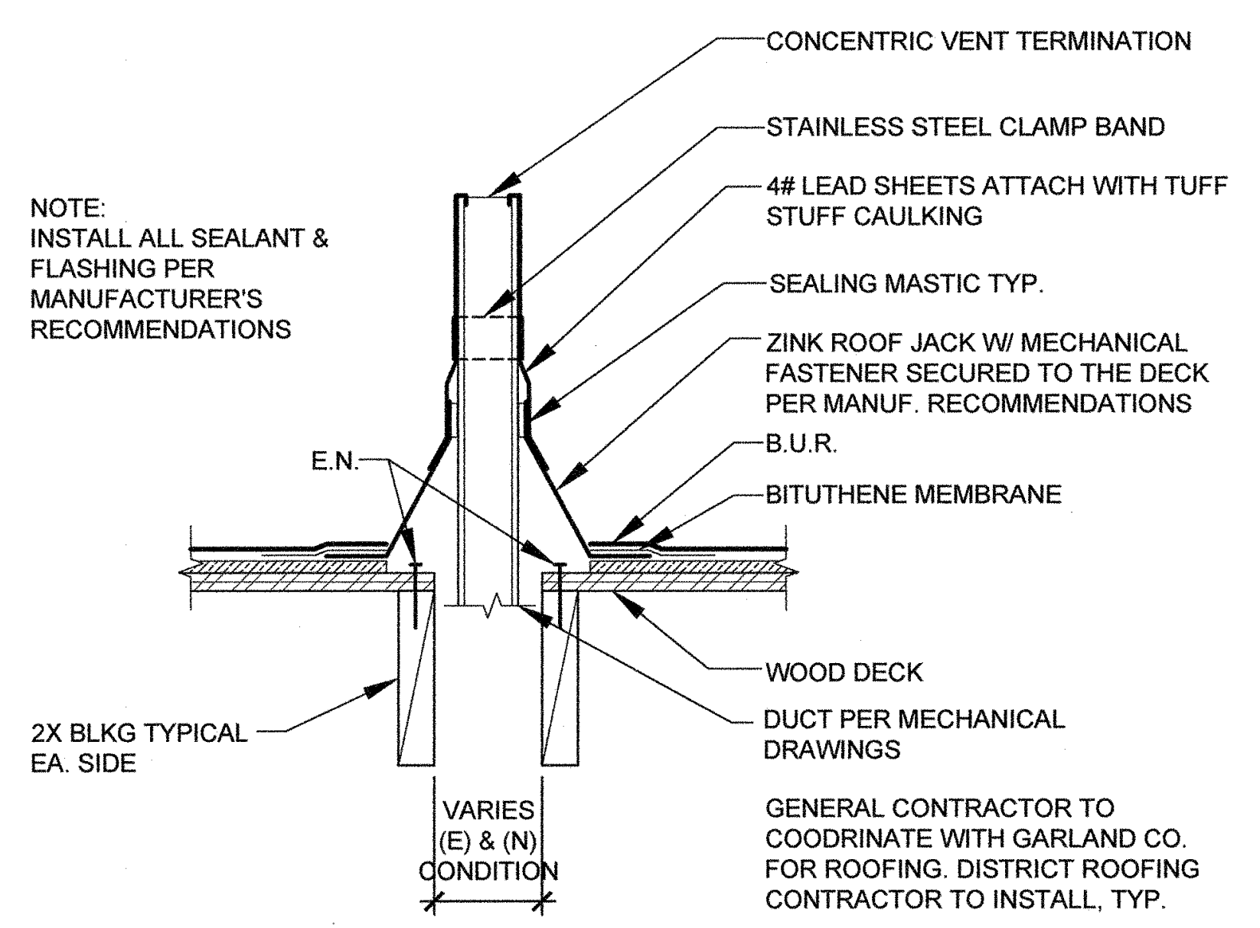

VERTICAL POST PER 3.10
12 GA. HANGER WIRE TYP. 4'-0" O.C. (3 TIGHT WRAPS)
MAIN BEAM 4'-0" O.C.
12 GA. BRACE WIRES NOTE 1. *DSA REQUIRES 4 TIGHT WRAPS ON BRACE WIRES
CROSS TEES 2'-0" O.C.
WALL
12 GA. HANGER WIRE AT TERMINAL ENDS OF ALL COMPONENTS NOTE 5.
8" MAXIMUM
8" MAXIMUM
STABILIZER BAR (SPACER) NOTE 4.
1/2" NOTE 3.
MAIN BEAM OR CROSS TEE
ACOUSTICAL BOARD
WALL ANGLE
1/8" POP RIVETS ALLOWED ON TWO ADJACENT WALLS.
TWO OPPOSITE ADJACENT PROVIDE 1/2" SPACE, NO POP RIVETS.

1. BRACING WIRES TO BE ATTACHED A MAXIMUM OF 45° TO THE PLANE OF THE CEILING AND PARALLEL TO THE COMPONENTS AT THE BRACING POINT. BRACE WIRES TO BE TAUT AND TIED BOTH ENDS WITH THREE TIGHT WRAPS.

PERIMETER NOTES	3. THE UNATTACHED PERIMETER SHALL HAVE A MINIMUM OF 1/2" CLEARANCE AT ENDS OF COMPONENTS. 4. CONTINUOUS SPACER BAR TO BE LOCKED TO COMPONENTS ON UNATTACHED WALL.	5. COMPONENT TERMINAL ENDS MUST BE SUPPORTED BY A 12 GA. HANGER WIRE ON ALL WALLS.

9 DIAGRAMATIC ATTACHMENT

SLOPED CEILINGS NTS

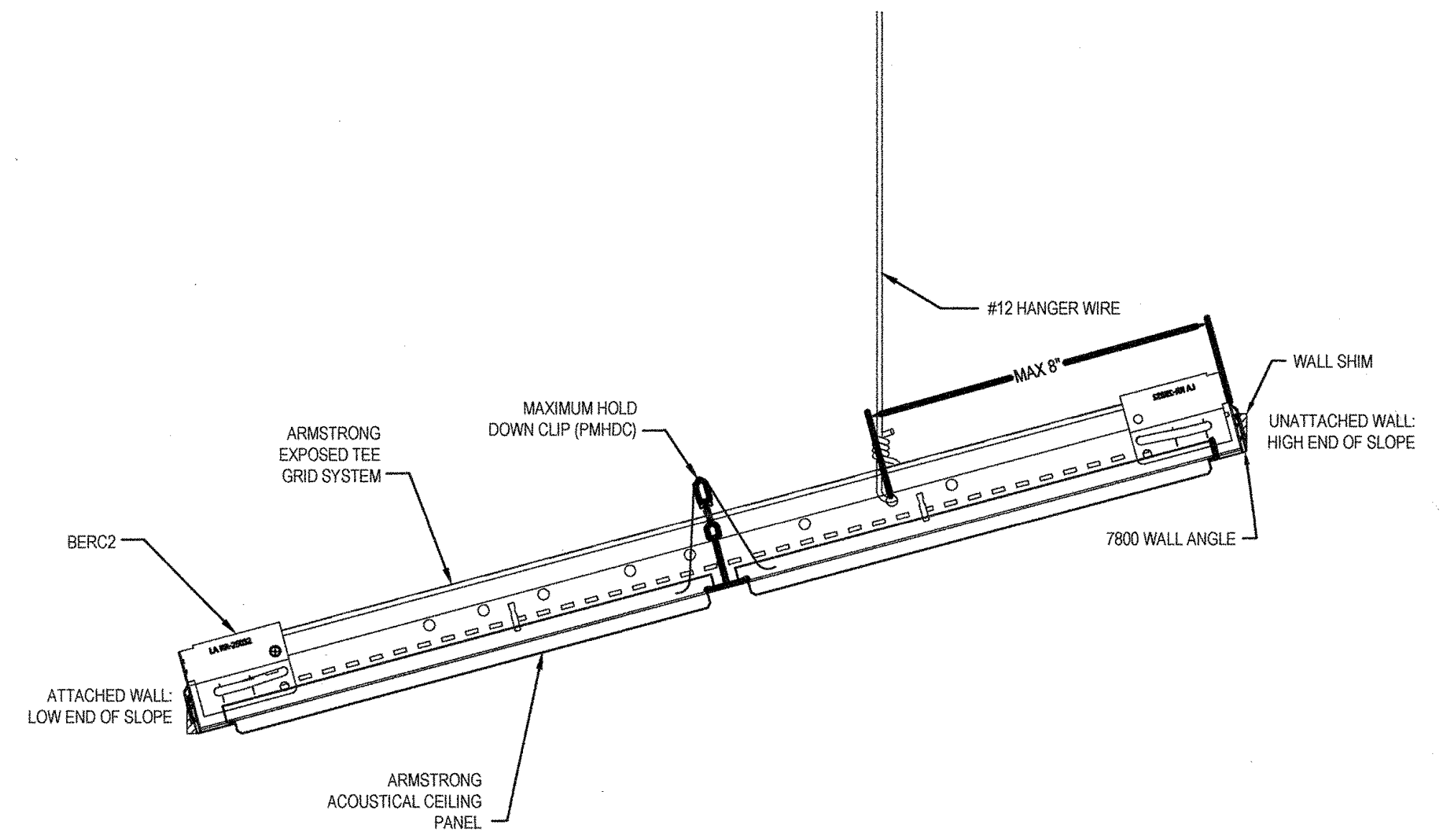

CONCENTRIC VENT TERMINATION
STAINLESS STEEL CLAMP BAND
4# LEAD SHEETS ATTACH WITH TUFF STUFF CAULKING
SEALING MASTIC TYP.
ZINK ROOF JACK W/ MECHANICAL FASTENER SECURED TO THE DECK PER MANUF. RECOMMENDATIONS
B.U.R.
BITUTHENE MEMBRANE
E.N.
WOOD DECK
DUCT PER MECHANICAL DRAWINGS
2X BLKG TYPICAL EA. SIDE
VARIES (E) & (N) CONDITION

NOTE:
INSTALL ALL SEALANT & FLASHING PER MANUFACTURER'S RECOMMENDATIONS

GENERAL CONTRACTOR TO COODRINATE WITH GARLAND CO. FOR ROOFING. DISTRICT ROOFING CONTRACTOR TO INSTALL, TYP.

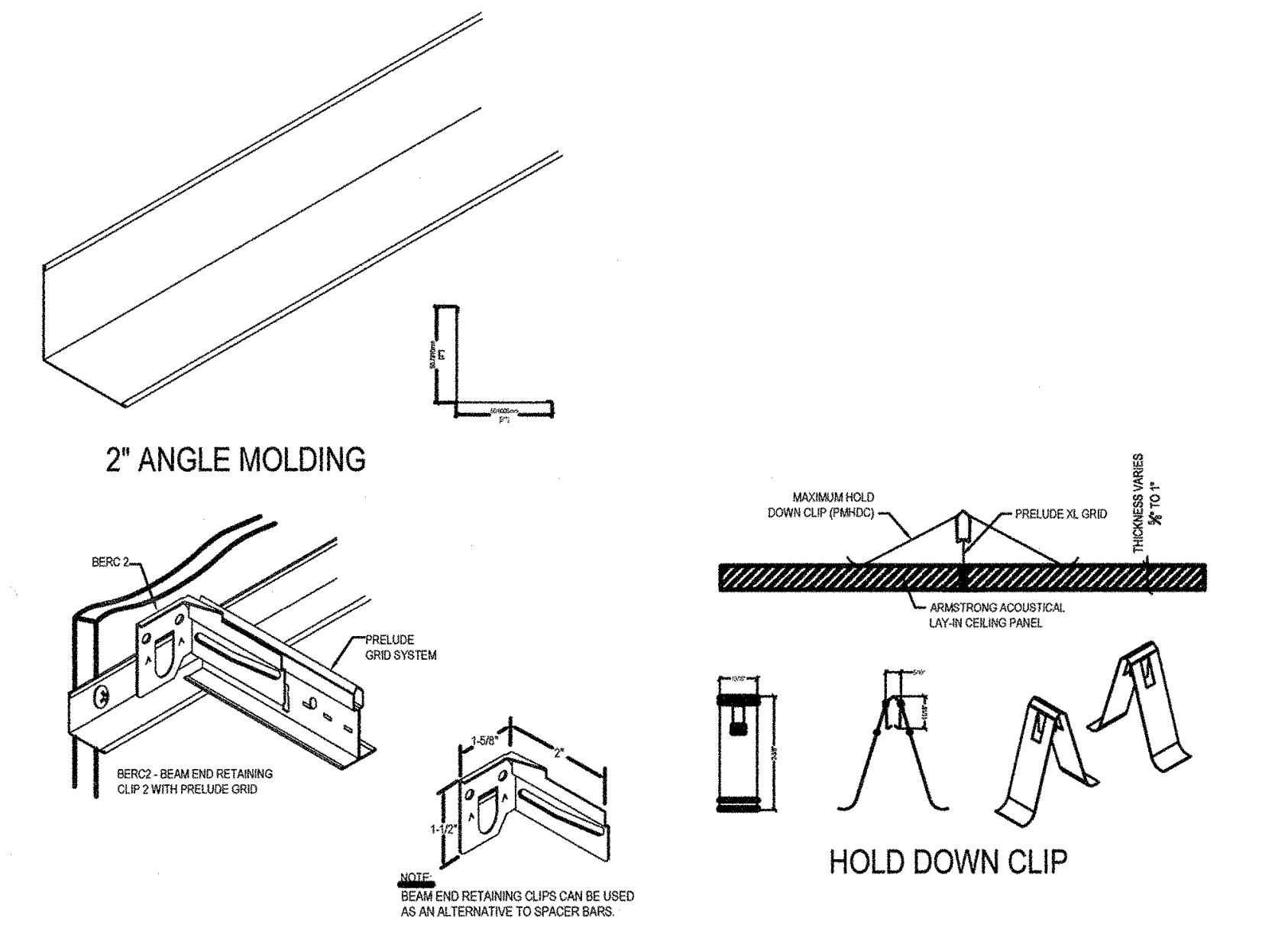
3 DUCT THROUGH ROOF

1 1/2"=1'-0"


#12 HANGER WIRE
MAX 8"
WALL SHIM
UNATTACHED WALL: HIGH END OF SLOPE
7800 WALL ANGLE
MAXIMUM HOLD DOWN CLIP (PMHDC)
ARMSTRONG EXPOSED TEE GRID SYSTEM
BERC2
ATTACHED WALL: LOW END OF SLOPE
ARMSTRONG ACOUSTICAL CEILING PANEL

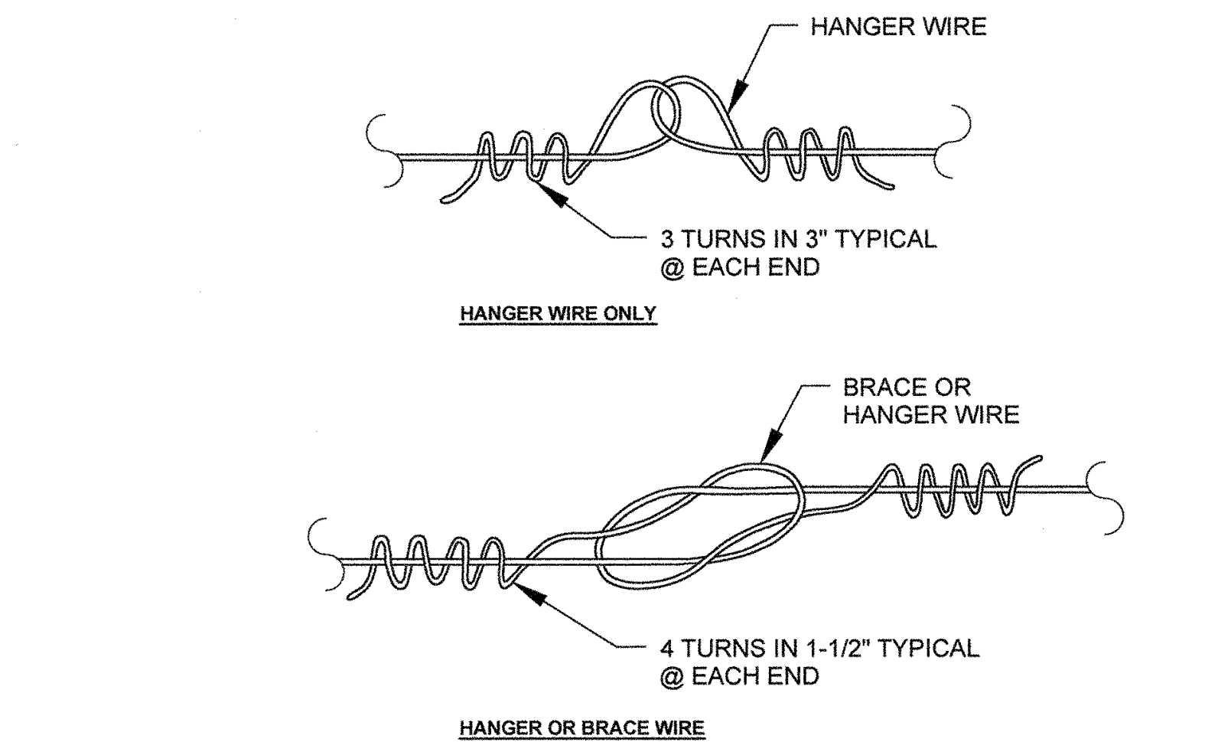
8 SLOPED CEILING DETAIL

NTS


2" ANGLE MOLDING
BERC 2
PRELUDE GRID SYSTEM
BERC2 - BEAM END RETAINING CLIP 2 WITH PRELUDE GRID
1-5/8"
2"
1-1/2"
NOTE: BEAM END RETAINING CLIPS CAN BE USED AS AN ALTERNATIVE TO SPACER BARS.
MAXIMUM HOLD DOWN CLIP (PMHDC)
PRELUDE XL GRID
THICKNESS VARIES 5/8" TO 1"
ARMSTRONG ACOUSTICAL LAY-IN CEILING PANEL
HOLD DOWN CLIP

6 CLIPS AND MOLDINGS

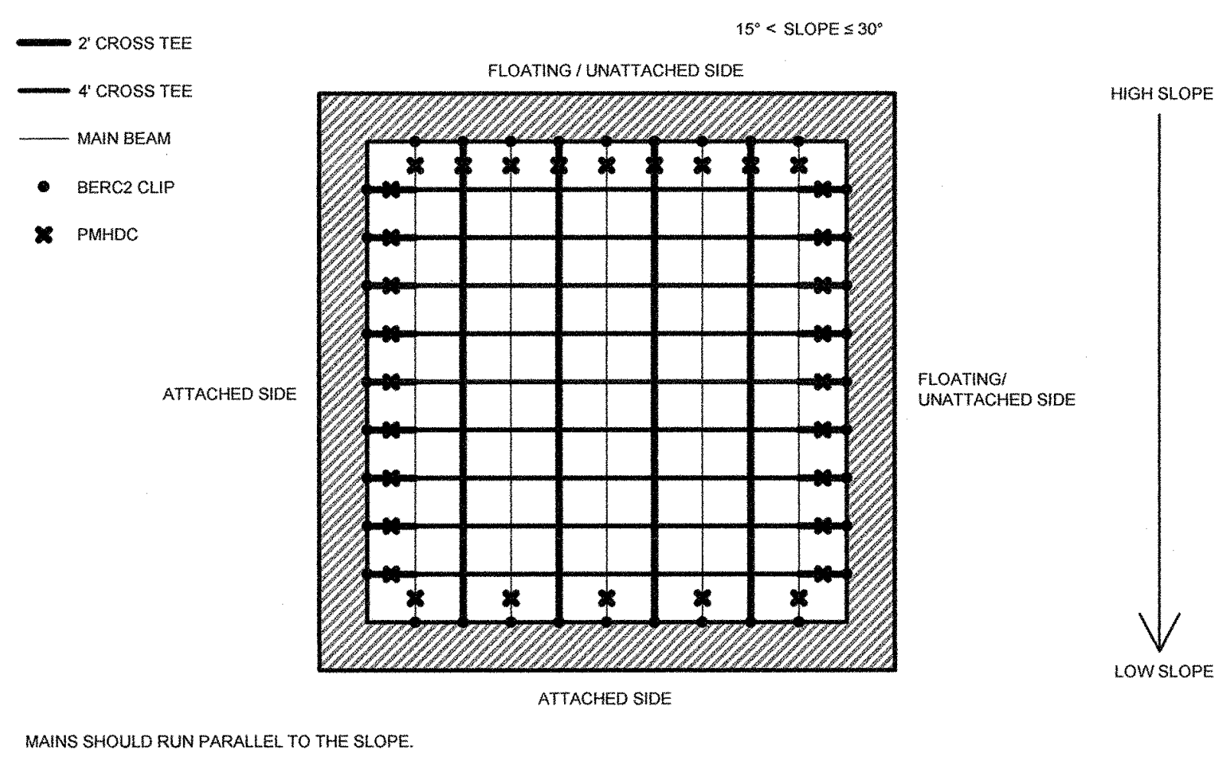
SLOPED CEILINGS NTS


HANGER WIRE
3 TURNS IN 3" TYPICAL @ EACH END
HANGER WIRE ONLY
BRACE OR HANGER WIRE
4 TURNS IN 1-1/2" TYPICAL @ EACH END
HANGER OR BRACE WIRE

NOTES:
WIRE SPLICES ARE SHOWN LOOSELY TIED FOR ILLUSTRATIVE PURPOSES ONLY AND SHALL BE DRAWN TIGHT TO COMPLETE INSTALLATION WHEN CONSTRUCTED.

2 CEILING WIRE SPLICES

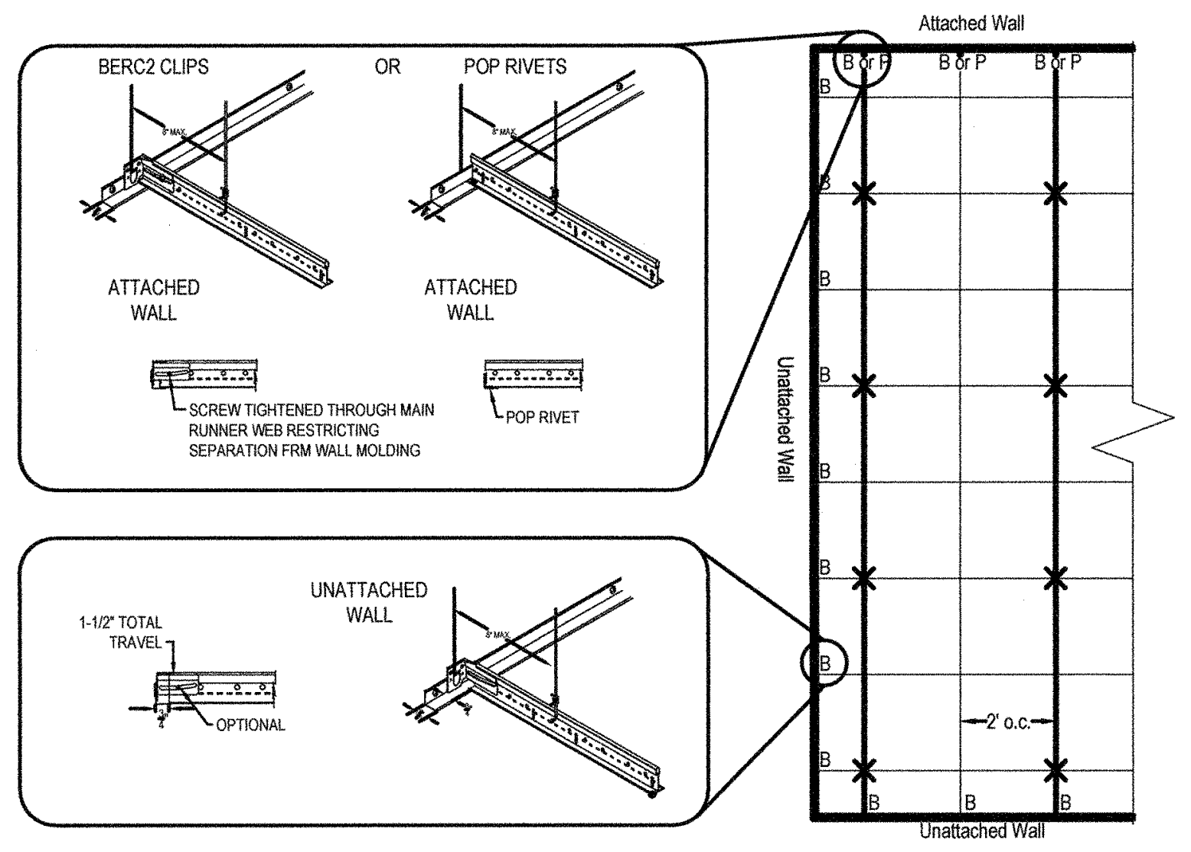
(SHEET # 6.10) 3"=1'-0"



MAINS SHOULD RUN PARALLEL TO THE SLOPE.

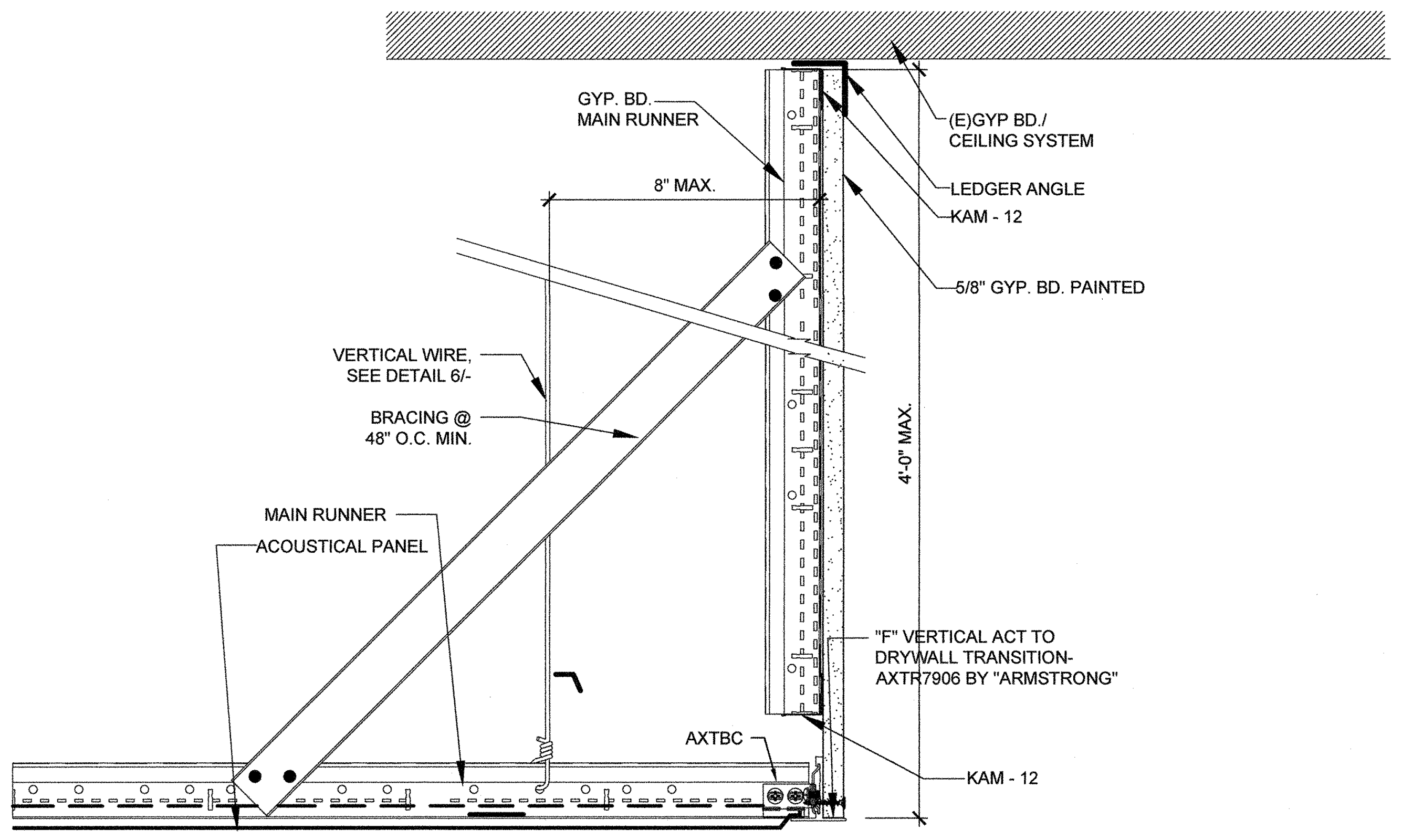
7 DIAGRAMATIC CEILING PLAN

SLOPED CEILING LAYOUT 1/8"=1'-0"



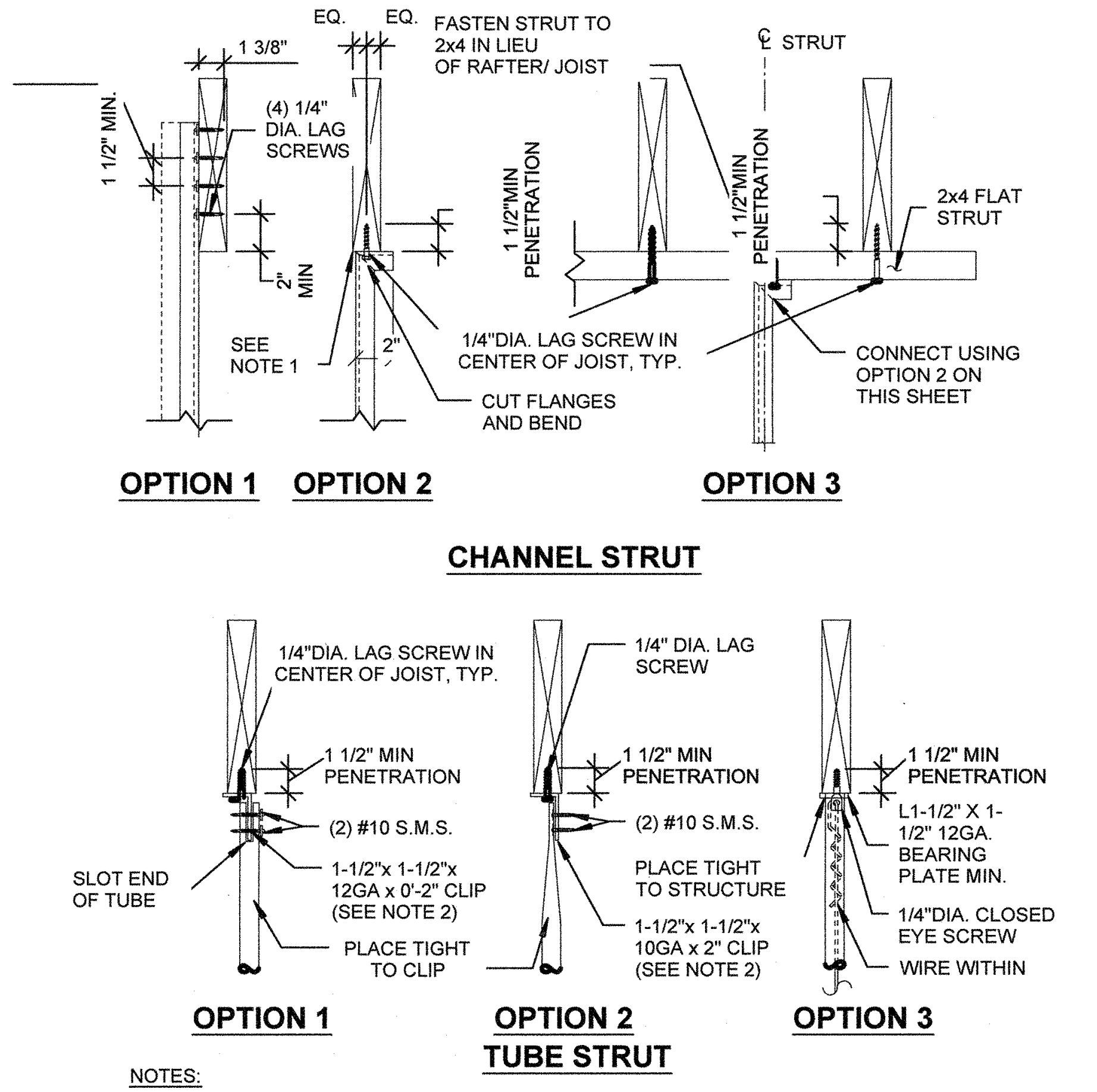
5 DIAGRAMATIC ATTACHMENT

SLOPED CEILING LAYOUT 1"=1'-0"



4 CEILING TRANSITION DETAIL

(SUSPENDED T-BAR) 3"=1'-0"



NOTES:
1. WEB OF CHANNEL TO BEAR WITHIN WIDTH OF WOOD MEMBER.
2. VERTICAL LEG OF MEMBER TO FALL WITHIN THE WIDTH OF THE WOOD MEMBER.

1 CHANNEL/TUBE STRUT CONNECTION

TO SAWN TIMBER 1-1/2"=1'-0"

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LICENSED ARCHITECT
MARK C. FINNEY
NO. C-24673
REN. 9-30-17
STATE OF CALIFORNIA

TYPICAL DETAILS

RUSSO-McENTEE ACADEMY- HVAC UPGRADES
2851 GAY AVE., SAN JOSE, CA 95127
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE
	DD SUBMITTAL	12-8-17
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	BID SET	04-09-18
	DSA BACKCHECK	05-22-18

DSA FILE NUMBER 43-04

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL 01-117267
AC KG FLS MS SS
DATE MAY 22 2018

DRAWN BY: KU
CHECKED BY: -
JOB NO: 17116
DATE: 10/16/2017

A9.3

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GENERAL STRUCTURAL NOTES

- GENERAL

A. THESE DRAWINGS ARE COPY RIGHTED INSTRUMENTS OF SERVICE OF HOHBACH-LEWIN, INC. FOR USE ONLY ON THIS PROJECT.

B. CONTRACTOR RESPONSIBILITY - CONSTRUCTION DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, SEQUENCES AND SAFETY PRECAUTIONS, INCLUDING BUT NOT LIMITED TO SHORING AND TEMPORARY BRACING.

C. DIMENSIONS - USE WRITTEN DIMENSIONS ONLY. VERIFY ALL DIMENSIONS AT JOB SITE BEFORE COMMENCING WORK AND REPORT ANY DISCREPANCIES. WHERE NO DIMENSIONS ARE PROVIDED, OBTAIN CLARIFICATION PRIOR TO PROCEEDING WITH WORK.

D. COORDINATION - OPENINGS THROUGH WALLS AND FLOORS FOR MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE COORDINATED BY CONTRACTOR AND CONSTRUCTED PER TYPICAL DETAILS SHOWN IN THESE DOCUMENTS. NO MECHANICAL OR ELECTRICAL SYSTEM COMPONENTS SHALL BE EMBEDDED IN SLABS OR WALLS UNLESS SPECIFICALLY DETAILED IN THESE DOCUMENTS.

E. OMISSIONS AND CONFLICTS - OMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE CONSTRUCTION DOCUMENTS SHOULD BE BROUGHT TO THE ATTENTION OF THE DESIGN TEAM. IF CERTAIN FEATURES ARE NOT FULLY DELINEATED IN THE CONSTRUCTION DOCUMENTS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE DELINEATED.

F. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK.

G. THERE SHALL BE NO CHANGE IN SIZE OR DIMENSION OF A STRUCTURAL MEMBER, NOR SHALL ANY OPENINGS BE MADE IN ANY STRUCTURAL MEMBER, WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.

H. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON THE STRUCTURE. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE STRUCTURE AT THE TIME THE LOADS ARE IMPOSED.

I. THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS.

J. SEE DRAWINGS OTHER THAN STRUCTURAL FOR: TYPES OF FLOOR FINISH AND J. THEIR LOCATION, DEPRESSIONS IN FLOOR SLABS, OPENINGS IN WALLS AND FLOORS REQUIRED BY ARCHITECTURAL AND MECHANICAL FEATURES, AND ROADWAY PAVING, WALKS, RAMPS, STAIRS, CURBS, ETC.

- EXISTING CONSTRUCTION/ CONDITIONS:

A. SHORING: THE CONTRACTOR SHALL PROVIDE SHORING WHEREVER NECESSARY TO ALLOW INSTALLATION OF THE WORK. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE DESIGN, INSTALLATION AND MAINTENANCE OF ALL SHORING AND TEMPORARY WORK REQUIRED THROUGHOUT THE PROGRESS OF THE WORK.

B. EXISTING CONSTRUCTION: EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS WAS OBTAINED FROM LIMITED VISUAL OBSERVATIONS. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND SHALL NOTIFY THE STRUCTURAL ENGINEER OF RECORD OF ALL EXCEPTIONS AND RECEIVE DIRECTION PRIOR TO PROCEEDING WITH THE WORK IN QUESTION.

C. DEMOLITION: THE REMOVAL, CUTTING, DRILLING. ETC. OF EXISTING WORK SHALL BE PERFORMED WITH GREAT CARE AND WITH APPROPRIATE TOOLS IN ORDER TO NOT JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE BUILDING. SEE ARCHITECTURAL DRAWINGS FOR REQUIRED DEMOLITION.

- DESIGN BASIS (NEW CONSTRUCTION ONLY)

A. APPLICABLE CODE: CALIFORNIA BUILDING CODE (CBC), 2016 EDITION.

B. VERTICAL LOADS:
  1. ROOF DEAD LOAD: 20 psf
  2. ROOF LIVE LOAD: VARIES WITH SLOPE (20 psf max.)

C. LATERAL LOADS:
  1. DESIGN WIND CRITERIA: PER ASCE 7-10
     NOMINAL DESIGN WIND SPEED: 115 mph
     WIND EXPOSURE: C
  2. DESIGN SEISMIC CRITERIA:
     SITE CLASS: D
     S_{DS} = 1.00g
     S_{D1} = 0.60g
     IMPORTANCE FACTOR, I= 1.25
     SEISMIC DESIGN CATEGORY= D
     RISK CATEGORY = III
     RESPONSE MODIFICATION COEFF., R= 6.5
     DESIGN SEISMIC COEFF., V= 0.192W (STRENGTH)

- EPOXY ANCHORS (CONCRETE INSTALLATION ONLY)

A. EPOXY ADHESIVE SHALL BE SIMPSON "SET-XP" ADHESIVE ANCHOR (ESR-2508) OR EQUAL PRODUCT. ALTERNATE PRODUCTS MUST BE SUBMITTED TO E.O.R. FOR SUBSTITUTION PRIOR TO INSTALLATION PER SPECIFICATIONS.

B. INSTALLATION: INSTALL THE EPOXY ANCHORS IN ACCORDANCE WITH THE REQUIREMENTS GIVEN IN MANUFACTURER'S RECOMMENDATIONS FOR THE SPECIFIC ANCHOR.

C. SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 1704 OF THE CBC. (1704A OF THE CBC FOR DSA PROJECTS)

D. NOTIFY ARCHITECT IMMEDIATELY IF ELEMENTS WITH EXISTING STRUCTURE PREVENT DRILLING IN THE LOCATIONS SHOWN ON THE DRAWINGS.

E. EPOXIED DOWELS DO NOT SUBSTITUTE FOR HOOKED BARS. CONTRACTOR TO NOTIFY ENGINEER OF EPOXIED DOWEL LOCATIONS.

F. WHEN EPOXY ANCHORS ARE USED FOR SILL PLATE BOLTING, 10% OF THE ANCHORS SHALL BE TENSION TESTED. FOR ALL OTHER STRUCTURAL APPLICATIONS, ALL SUCH EPOXY ANCHOR SHALL BE TENSION TESTED. WHEN EPOXY ANCHORS ARE USED FOR NON-STRUCTURAL APPLICATIONS, 50% OF ANCHORS SHALL BE TENSION TESTED. IF ANY ANCHOR FAILS TESTING, TEST ALL ANCHORS OF THE SAME TYPE NOT PREVIOUSLY TESTED UNTIL 20 CONSECUTIVE ANCHORS PASS. (PER IR-19.1 FOR DSA PROJECTS ONLY)

G. CONCRETE AT TIME OF INSTALLATION SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI AND SHALL HAVE A MINIMUM AGE OF 21 DAYS

MIN. WITH f'c= 2500 PSI CONCRETE (NORMAL WEIGHT CONCRETE)
VERIFY MINIMUM EXISTING CONCRETE STRENGTH IN FIELD. **

REINF. DOWEL	THREADED ANCHOR ROD	HOLE DIAMETER	MIN. EMBED.	MIN. EDGE DISTANCE *	MIN. SPACING	TENSION TEST VALUE ***
#4	1/2"Φ	5/8"Φ	2 3/4"	1 3/4"	8"	1,675#
#4	1/2"Φ	5/8"Φ	4"	4 1/2"	12"	3,890#
#5	5/8"Φ	3/4"Φ	5"	4 3/4"	15"	3,750#
#6	3/4"Φ	7/8"Φ	6"	5 1/2"	18"	6,475#
#7	7/8"Φ	1"Φ	8"	7"	24"	6,400#
#8	1"Φ	1 1/8"Φ	8 1/2"	7"	26"	10,260#

MIN. WITH f'c= 3000 PSI CONCRETE (NORMAL WEIGHT CONCRETE) VERIFY MINIMUM EXISTING CONCRETE STRENGTH IN FIELD. **

REINF. DOWEL	THREADED ANCHOR ROD	HOLE DIAMETER	MIN. EMBED.	MIN. EDGE DISTANCE *	MIN. SPACING	TENSION TEST VALUE ***
#4	1/2"Φ	5/8"	2 3/4"	1 3/4"	8"	1,840#
#4	1/2"Φ	5/8"	4"	4 1/2"	12"	3,890#
#5	5/8"Φ	3/4"	5"	4 3/4"	15"	3,750#
#6	3/4"Φ	7/8"	6"	5 1/2"	18"	7,100#
#7	7/8"Φ	1"	8"	7"	24"	6,400#
#8	1"Φ	1 1/8"	8 1/2"	7"	26"	11,240#

* MINIMUM EDGE DISTANCE LIMITATION ASSUMED FROM ONE EDGE ONLY.

** FOR SINGLE ANCHORS WITH NO ADDITIONAL EDGE DISTANCE OR SPACING REDUCTIONS. FOR OTHER CASES, REDUCTION OF VALUES CALCULATED PER ACI 318 IS REQUIRED.

*** TENSION TEST VALUES CORRESPOND WITH 1.5x CRACKED CONCRETE SEISMIC TENSION LOADS (STRENGTH).

- EXPANSION ANCHORS (SIMPSON)

A. EXPANSION BOLTS SHALL BE SIMPSON STRONG BOLT 2 CARBON STEEL ANCHOR (ESR-3037) OR EQUAL PRODUCTS. ALTERNATE PRODUCTS MUST BE SUBMITTED TO E.O.R. FOR SUBSTITUTION PRIOR TO INSTALLATION PER SPECIFICATIONS,

B. INSTALLATION: INSTALL THE EXPANSION ANCHORS IN ACCORDANCE WITH THE REQUIREMENTS GIVEN MANUFACTURER'S RECOMMENDATIONS FOR THE SPECIFIC ANCHOR.

C. SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 1704 OF THE CBC. (1704A OF THE CBC FOR DSA PROJECTS)

D. WHEN EXPANSION ANCHORS ARE USED FOR SILL PLATE BOLTING, 10% OF THE ANCHORS SHALL BE TENSION TESTED. FOR ALL OTHER STRUCTURAL APPLICATIONS, ALL SUCH EXPANSION ANCHOR SHALL BE TENSION TESTED. WHEN EXPANSION ANCHORS ARE USED FOR NON-STRUCTURAL APPLICATIONS, 50% OF ANCHORS SHALL BE TENSION TESTED. IF ANY ANCHOR FAILS TESTING, TEST ALL ANCHORS OF THE SAME TYPE NOT PREVIOUSLY TESTED UNTIL 20 CONSECUTIVE ANCHORS PASS. (PER IR-19.1 FOR DSA PROJECTS ONLY)

E. CONCRETE AT TIME OF INSTALLATION SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI AND SHALL HAVE A MINIMUM AGE OF 21 DAYS

MIN. f'c = 2500 PSI (NORMAL WEIGHT CONCRETE) VERIFY MINIMUM EXISTING CONCRETE STRENGTH IN FIELD. *

DIA.	MIN. EMBED = MIN. HOLE DEPTH	MIN. EDGE DISTANCE	MIN. SPACING	TENSION TEST VALUE **
1/2"	3 7/8"	7 7/8"	11 5/8"	2,200#
5/8"	5 1/8"	9 5/8"	15 3/8"	3,800#
3/4"	5 3/4"	11 3/4"	17 1/4"	5,800#
1"	9 3/4"	13 1/2"	29 1/4"	6,900#

* FOR SINGLE ANCHORS WITH NO EDGE DISTANCE OR SPACING REDUCTIONS. FOR OTHER CASES, REDUCTION OF VALUES CALCULATED PER ACI 318 IS REQUIRED

** TENSION TEST VALUES ONLY AND CORRESPOND WITH 1.5x CRACKED CONCRETE SEISMIC TENSION LOADS.

- WOOD

A. FRAMING LUMBER - DOUGLAS FIR U.O.N.;
  1. JOISTS AND RAFTERS: NO. 1
  2. POSTS, BEAMS, AND HEADERS: NO. 1
  3. STUDS, PLATES, BLOCKS, LIGHT FRAMING AND MISC: NO. 1
  4. ALL LUMBER IN CONTACT WITH CONCRETE OR MASONRY TO BE PRESERVATIVE TREATED.
  5. THE MOISTURE CONTENT OF ALL LUMBER 4x OR GREATER SHALL BE VERIFIED BY PROJECT INSPECTOR AT THE TIME OF FRAMING.
  6. MOISTURE CONTENT SHALL NOT EXCEED 19% FOR ROOF SUPPORT MEMBERS AND SHALL NOT EXCEED 15% FOR WALL STRUCTURAL MEMBERS (i.e. HEADERS, TOP PLATES, SILLS AND STUDS. 2x MEMBERS SHALL BE STAMPED "S-DRY". RMT PRE-MANUFACTURED MEMBERS PER IR 23-10 IS AN ACCEPTABLE ALTERNATE TO SOLID SAWN LUMBER.

B. SHEATHING:
  1. ROOF SHEATHING STRUCTURAL 1: 15/32 INCH APA RATED 24/0 EXPOSURE 1. (4 PLY MIN). S.A.D. WHEN RADIANT BARRIER SHEATHINGS REQUIRED.
  2. WALL SHEATHING STRUCTURAL 1: 15/32 INCH APA C-D, INTERIOR WITH EXTERIOR GLUE. (4 PLY MIN.)

C. FRAMING HARDWARE: AS MANUFACTURED BY SIMPSON, OR ALTERNATE APPROVED BY THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT. SIMPSON DESIGNATIONS USED.

D. NAILS:
  1. COMMON WIRE GAGE U.O.N. NAILING TO CONFORM TO CBC TABLE 2304.10.1 U.O.N.
  2. MACHINE APPLIED NAILS: USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOB SITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL BY THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. MACHINE NAILING WILL NOT BE APPROVED IN 5/16" PLYWOOD. IF NAIL HEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY. MACHINE NAILING IS PROHIBITED AT DOUBLE SHEATHED PLYWOOD WALLS OR OTHER APPLICATIONS WHERE THE PRESENCE OF "SHINERS" CAN NOT BE DETECTED BY VISUAL OBSERVATION. FOR DOUBLE SIDED PLYWOOD SHEARWALL, USE HAND NAILING FOR SECOND SIDE OF PLYWOOD.
  3. GALVANIZED NAILS SHALL BE HOT-DIPPED WHERE OCCURS.

E. BOLTS: ASTM A307. PROVIDE WASHER UNDER HEADS AND NUTS.

F. PROVIDE LATERAL SUPPORT FOR BEAMS, JOISTS AND RAFTERS PER CBC SECTION 2308.4.6.

G. LAG SCREWS PER ANSI/ ASME STANDARD B18.2.1 PROVIDE LEAD HOLE SAME DIAMETER AND DEPTH AS SHANK AND THEN DRILL HOLE 60% - 70% OF SHANK DIAMETER FOR THREADED PORTIONS.

H. HOLDOWNS: AS MANUFACTURED BY SIMPSON OR APPROVED EQUIVALENT.

I. PRESSURE TREATED LUMBER:
  1. PRESSURE TREATED D.F. SHALL BE AWPB STAMPED. AMMONIACAL COPPER QUAT (ACQ), COPPER BORON AZOLE (CBA), OR BORATE TREATED AWPA STANDARD C2, MINIMUM 0.40 INCH. PENETRATION INCISED.
  2. ALL PRESERVATIVE TREATED LUMBER SHALL BE FIELD-APPLIED WITH PRESERVATIVE WHERE CUT AND DRILLED ON SITE WITH COPPER NAPHATHENATE (2% COPPER AS METAL).
  3. USE HOT DIPPED GALVANIZED HARDWARE, IE. BOLTS, NAIL, ETC. FOR ALL ATTACHMENT TO ACQ OR CBA TREATED MEMBERS.

NAILING SCHEDULE (CBC TABLE 2304.10.1)

CONNECTION [1]	NAILING [2]	NAILING [2]
1. Blocking between ceiling joists, rafters or trusses to top plate or other framing below (Roof)	(3) 8d	Ea. end, toenail
2. Ceiling joist to top plate	(3) 8d	Toenail
3. Ceiling joist not attached to parallel rafter, laps over partitions	(3) 16d	Face nail
4. Collar tie to rafter	(3) 10d	Face nail
5. Rafter or roof truss to top plate	(3) 10d	Toenail
6. Roof rafters to ridge valley or hip rafters; or roof rafter to 2 inch ridge beam.	(2) 16d	End nail
	(3) 10d	Toenail
7. Stud to stud (not a braced wall panels)	16d	24" o.c face nail
8. Stud to stud and abutting studs at intersecting wall corners (at braced wall panels)	16d	16" o.c face nail
9. Built-up header (2" to 2" header)	16d	16" o.c each edge, face nail
10. Continuous header to stud	(4) 8d	Toenail
11. Top plate to top plate	16d	16" o.c face nail
12. Top plate to top plate, at end joists	(8) 16d	Each side of end joist
13. Bottom plate to joist, rim joist, band joist or blocking (not at braced wall panels)	16d	12" o.c face nail
14. Bottom plate to joist, rim joist, band joist or blocking at braced wall panels	(2) 16d	16" o.c face nail
15. Stud to bottom plate	(4) 8d	Toenail
16. Top plate to stud	(2) 16d	End nail
17. Top plates, laps at corners and intersections	(2) 16d	Face nail
18. Joist to sill, top plate, or girder	(3) 8d	Toenail
19. Rim joist, band joist, or blocking to top plate, sill or other framing below	8d	6" o.c toenail
20. 2" planks (plank & beam - floor & roof)	(2) 16d	Each bearing
21. Built-up girders and beams, 2" lumber layers	20d	32" o.c face nail at top and bottom staggered on sides.
	(2) 20d	Ends and at each splice, face nail
22. Ledger strip supporting joists or rafters	(3) 16d	Each joist or rafter, face nail
23. Joists to band joist or rim joist	(3) 16d	End nail
24. Bridging or blocking to joist, rafter or truss (floor)	(2) 8d	Each end toe nail

NOTES:

1. NAILING PER SCHEDULE ABOVE IS TO BE USED WHERE NAILING IS NOT SPECIFIED ON PLANS OR DETAILS. NAILING PER PLANS AND DETAILS SUPERCEDE NAILING SCHEDULE UNLESS APPROVED BY ENGINEER.
2. NAIL SPECIFIED ARE COMMON:
   8d= 2 1/2"x0.131"
   10d= 3"x0.148"
   16d= 3 1/2"x0.162"

FOR ALTERNATE NAILING AND INFORMATION NOT SHOWN, SEE COMPLETE TABLE CBC 2304.10.1

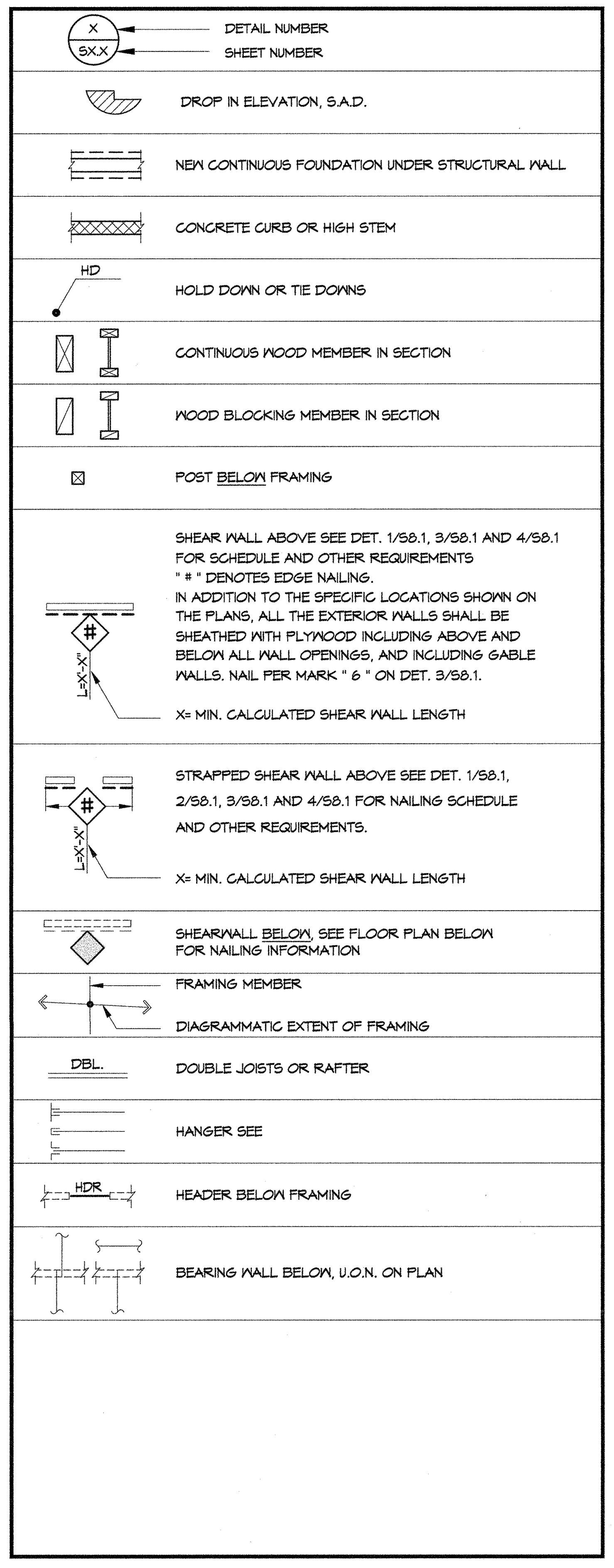
STRUCTURAL SHEET INDEX

S1.0	GENERAL STRUCTURAL NOTES
S2.1	PARTIAL FOUNDATION & PARTIAL ROOF FRAMING PLAN
S5.1	TYPICAL CONCRETE DETAILS
S8.1	TYPICAL WOOD DETAILS

ABBREVIATIONS

&	AND
@	AT
A.B.	ANCHOR BOLT
ARCH.	ARCHITECTURAL
AYC	ALASKAN YELLOW CEDAR
BLDG.	BUILDING
BLKG.	BLOCKING
BM.	BEAM
B.N.	BOUNDARY NAIL
B.O.C.	BOTTOM OF CONCRETE
BOT.	BOTTOM
℄	CENTER LINE
C.G.S.	CENTER OF GRAVITY OF POST-TENSIONING STRAND
C.J.	CONTROL JOINT
CLR.	CLEAR COVER
COL.	COLUMN
CONC.	CONCRETE
CONT.	CONTINUOUS
DBL.	DOUBLE
DBO.	DRAWING BY OTHER
DET.	DETAIL
D.C.	DEMAND CRITICAL
D.F.	DOUGLAS FIR
DWG.	DRAWING
(E)	EXISTING
EA.	EACH
EL.	ELEVATION
E.N.	EDGE NAIL
E.W.	EACH WAY
EXT.	EXTERIOR
FDN.	FOUNDATION
F.F.	FINISH FLOOR
FLR.	FLOOR
F.N.	FIELD NAIL
F.O.C.	FACE OF CONCRETE
F.O.S.	FACE OF STUD
F.S.	FAR SIDE
FTG.	FOOTING
G.C.	GENERAL CONTRACTOR
H.D.	HOLD DOWN
HDR.	HEADER
HORIZ.	HORIZONTAL
HSS	HOLLOW STEEL SECTION
J.H.	JOIST HANGER
LONG.	LONGITUDINAL
L.V.F.	LOW-VELOCITY FASTENER
MAX.	MAXIMUM
M.B.	MACHINE BOLTS (UNFINISHED)
MIN.	MINIMUM
(N)	NEW
N.S.	NEAR SIDE
NTS.	NOT TO SCALE
O.C.	ON CENTER
OPP.	OPPOSITE
℘	PLATE
PLY.	PLYWOOD
P/T	POST TENSIONING
R.C.J.	ROUGHENED CONSTRUCTION JOINT
REINF.	REINFORCEMENT
REQD.	REQUIRED
S.A.D.	SEE ARCHITECTURAL DRAWINGS
S.C.D.	SEE CIVIL DRAWINGS
SCHED.	SCHEDULE
S.D.B.O.	SEE DRAWINGS BY OTHERS
SIM.	SIMILAR
S.J.	SEISMIC JOINT
S.L.R.S.	SEISMIC LOAD RESISTING SYSTEM
S.M.D.	SEE MECHANICAL DRAWINGS
SPEC.	SPECIFICATION
SQ.	SQUARE
SYM.	SYMMETRICAL
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
T.D.	TIE DOWN
T.O.C.	TOP OF CONCRETE
T.O.F.	TOP OF FOOTING
T.O.S.	TOP OF STEEL FRAMING
T.P.	TOP OF PLATE
TRAN.	TRANSVERSE
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
VERT.	VERTICAL
V.I.F.	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT

SYMBOLS



DETAIL NUMBER

SHEET NUMBER

DROP IN ELEVATION, S.A.D.

NEW CONTINUOUS FOUNDATION UNDER STRUCTURAL WALL

CONCRETE CURB OR HIGH STEM

HOLD DOWN OR TIE DOWNS

CONTINUOUS WOOD MEMBER IN SECTION

WOOD BLOCKING MEMBER IN SECTION

POST BELOW FRAMING

SHEAR WALL ABOVE SEE DET. 1/S8.1, 3/S8.1 AND 4/S8.1 FOR SCHEDULE AND OTHER REQUIREMENTS " # " DENOTES EDGE NAILING. IN ADDITION TO THE SPECIFIC LOCATIONS SHOWN ON THE PLANS, ALL THE EXTERIOR WALLS SHALL BE SHEATHED WITH PLYWOOD INCLUDING ABOVE AND BELOW ALL WALL OPENINGS, AND INCLUDING GABLE WALLS. NAIL PER MARK " 6 " ON DET. 3/S8.1.

X= MIN. CALCULATED SHEAR WALL LENGTH

STRAPPED SHEAR WALL ABOVE SEE DET. 1/S8.1, 2/S8.1, 3/S8.1 AND 4/S8.1 FOR NAILING SCHEDULE AND OTHER REQUIREMENTS.

X= MIN. CALCULATED SHEAR WALL LENGTH

SHEARWALL BELOW, SEE FLOOR PLAN BELOW FOR NAILING INFORMATION

FRAMING MEMBER

DIAGRAMMATIC EXTENT OF FRAMING

DOUBLE JOISTS OR RAFTER

HANGER SEE

HEADER BELOW FRAMING

BEARING WALL BELOW, U.O.N. ON PLAN

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Architect Of Record

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Consultant's Stamp

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Consultant's Logo

GENERAL STRUCTURAL NOTES

RUSSO-McENTEE ACADEMY- HVAC UPGRADES
2851 GAY AVE., SAN JOSE, CA 95127
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE
	DD SUBMITTAL	12-8-17
	DSA SUBMITTAL	01-31-18

DSA FILE NUMBER 43-04

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL 01-117267
AC — FLS — SS
DATE MAY 2 2 2018

DRAWN BY: JC
CHECKED BY: SAL
JOB NO: 17116
DATE: 10/16/2017

S1.0

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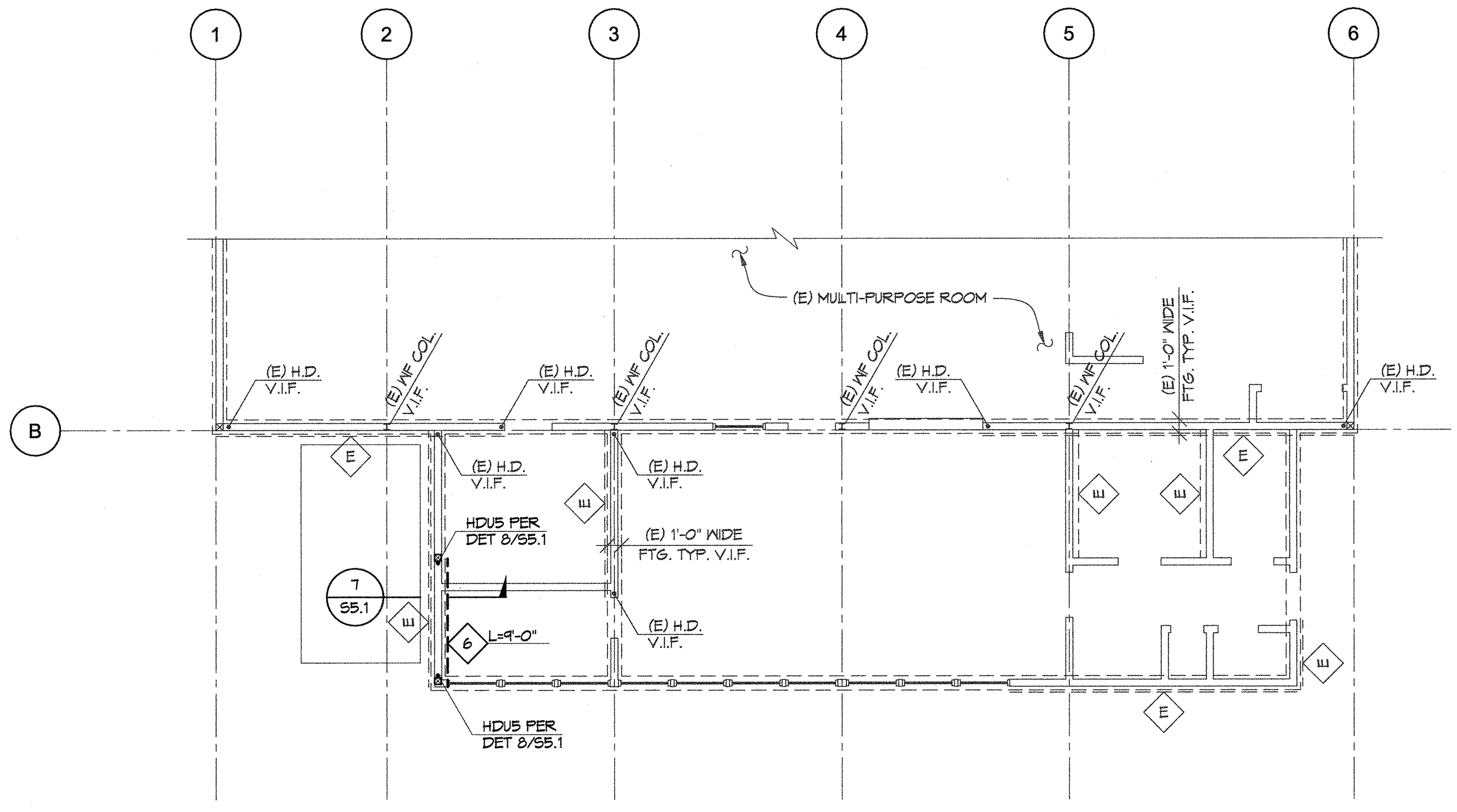
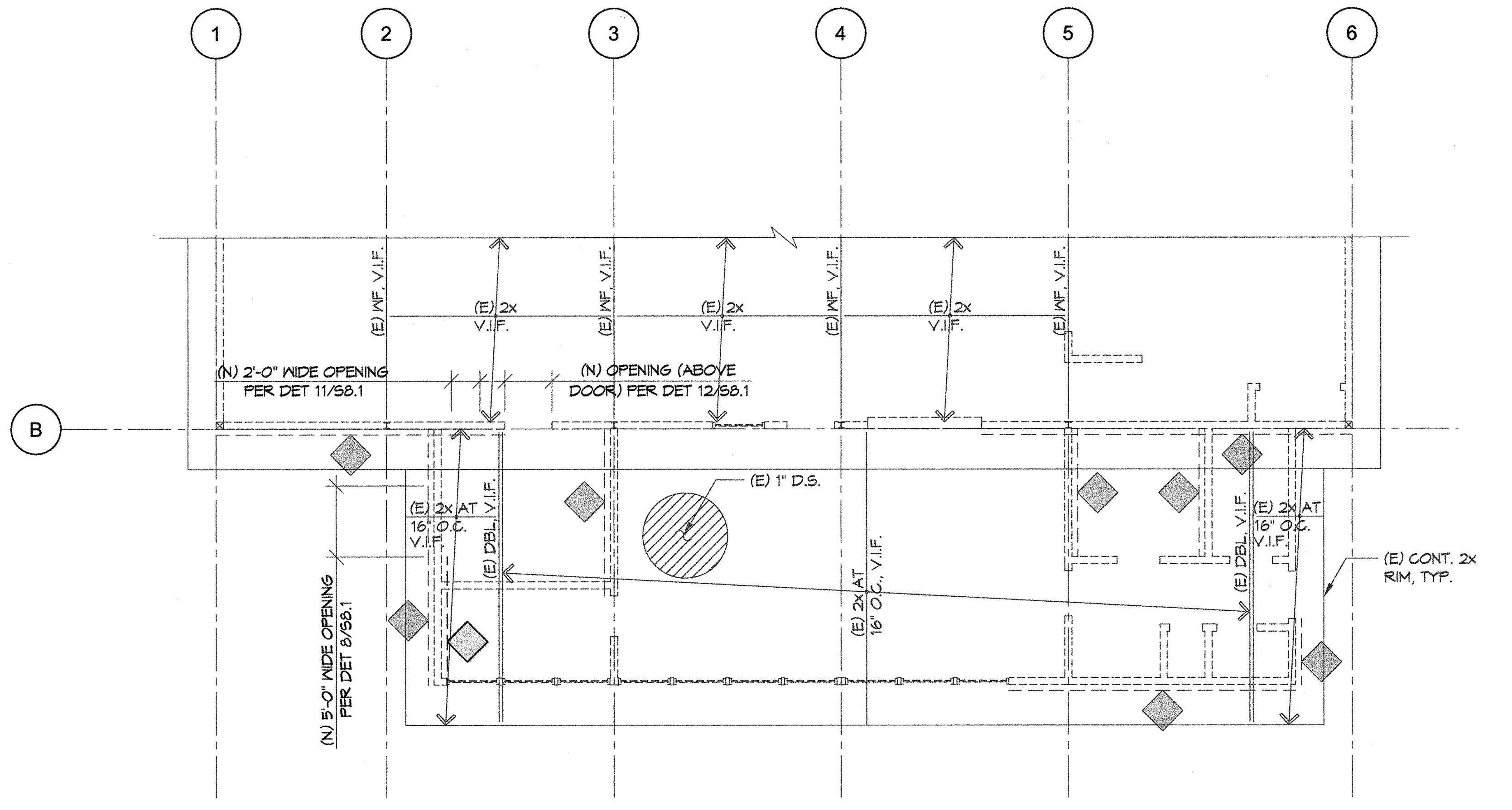
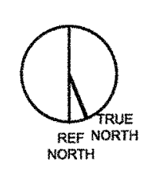



1
2
3
4
5
6
B
(E) WF, V.I.F.
(E) 2x V.I.F.
(E) WF, V.I.F.
(E) 2x V.I.F.
(E) WF, V.I.F.
(E) 2x V.I.F.
(E) WF, V.I.F.
(N) 2'-0" WIDE OPENING PER DET 11/S8.1
(N) OPENING (ABOVE DOOR) PER DET 12/S8.1
(E) 1" D.S.
(E) 2x AT 16" O.C. V.I.F.
(E) DBL, V.I.F.
(E) 2x AT 16" O.C., V.I.F.
(E) DBL, V.I.F.
(E) 2x AT 16" O.C. V.I.F.
(E) CONT. 2x RIM, TYP.
(N) 5'-0" WIDE OPENING PER DET 8/S8.1

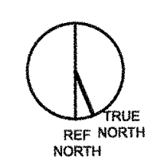
FOUNDATION PLAN

1/8"=1'-0"



ROOF FRAMING PLAN

1/8"=1'-0"

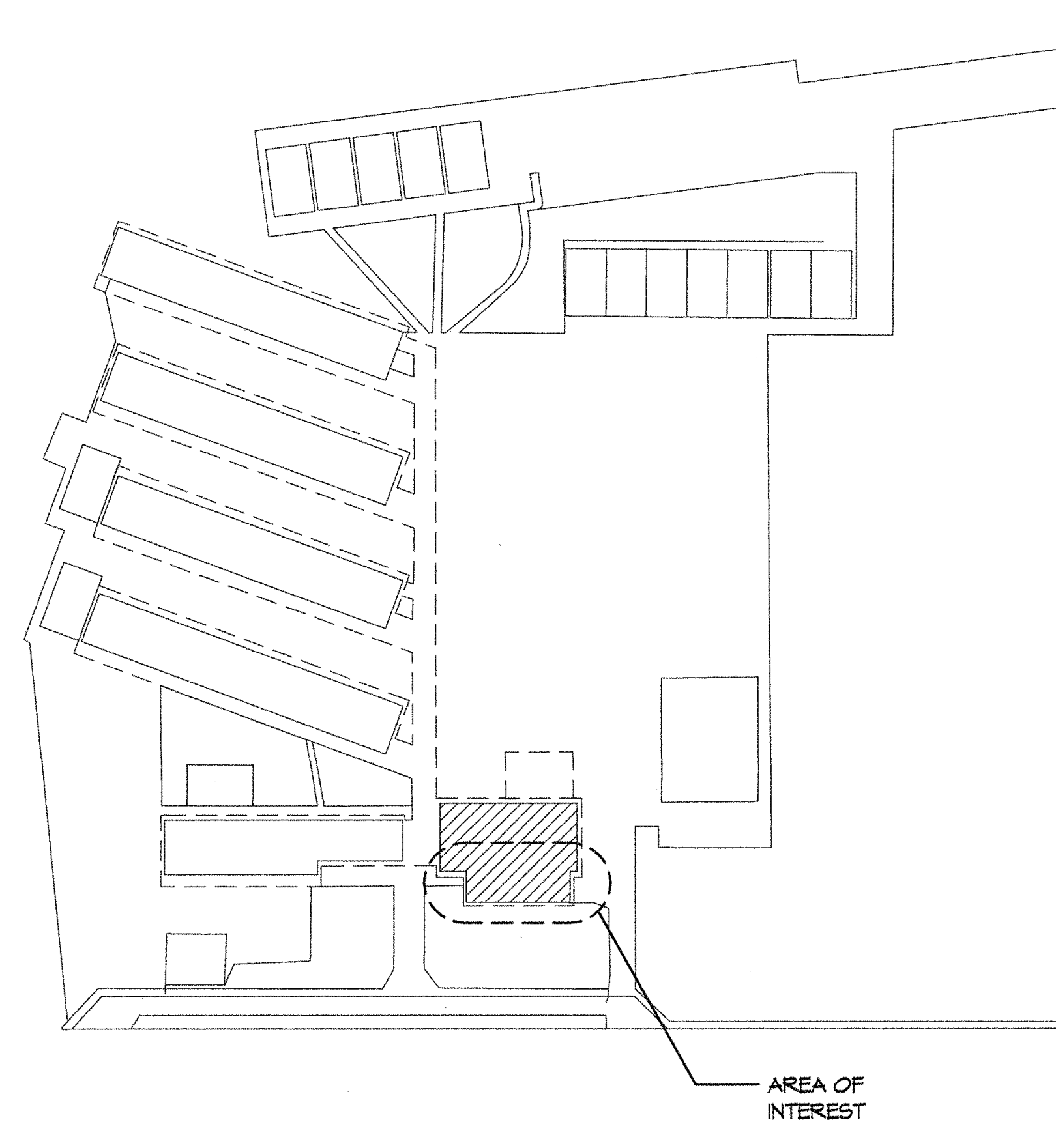


FOUNDATION NOTES

1. SEE SHEET S1.0 FOR GENERAL NOTES.
2. GENERAL CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AS SHOWN ON THIS PLAN. CONTACT HOHBACH-LEWIN, INC. IF ANY DISCREPANCIES ARE ENCOUNTERED.
3. EXCAVATIONS SHALL BE MADE AS NEAR AS POSSIBLE TO THE NEAT LINES REQUIRED BY THE SIZE AND SHAPE OF THE STRUCTURE. NO MATERIAL IS TO BE EXCAVATED UNNECESSARILY.
4. VERIFY LOCATION OF UNDERGROUND UTILITIES BEFORE EXCAVATION. NOTIFY ARCHITECT PRIOR TO EXCAVATION IN THE EVENT SUCH UTILITIES ARE ENCOUNTERED.
5. FOR DRAINAGE DETAILS, PITS, DAMP PROOFING, TRENCHES, CURBS, EXTERIOR WALKS, UTILITIES, EQUIPMENT DETAILS, STEPS, ETC., SEE DRAWINGS OTHER THAN STRUCTURAL.
6. SEE ARCHITECTURAL DRAWING FOR DIMENSIONS NOT SHOWN.
7. ◇E DENOTES EXISTING DIAGONAL SHEATHED SHEAR WALL, V.I.F.

ROOF FRAMING NOTES:

1. SEE SHEET S1.0 FOR GENERAL NOTES.
2. GENERAL CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AS SHOWN ON THIS PLAN. CONTACT HOHBACH-LEWIN, INC. IF ANY DISCREPANCIES ARE ENCOUNTERED.
3. NOTIFY HOHBACH-LEWIN, INC OF ANY ADDITIONAL MECHANICAL EQUIPMENT AND SPRINKLERS TO BE HUNG FROM ROOF. ALL MECHANICAL EQUIPMENT AND SPRINKLERS SHALL BE REVIEWED AND APPROVED BY HOHBACH-LEWIN, INC. PRIOR TO INSTALLATION.
4. EXACT LOCATIONS OF ALL MECHANICAL UNITS TO BE COORDINATED WITH DRAWINGS OTHER THAN STRUCTURAL DRAWINGS FOR DEPRESSIONS, CURBS, MECHANICAL, ELECTRICAL AND SHAFT OPENINGS, ETC.
5. SEE DRAWINGS OTHER THAN STRUCTURAL FOR DEPRESSIONS, CURBS, MECHANICAL, ELECTRICAL, SHAFT OPENINGS. ETC.
6. SEE ARCHITECTURAL DRAWING FOR INFORMATION NOT SHOWN.



KEY PLAN

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STUART A. LOWE
S 5166

DATE SIGNED: 5/14/2018

Consultant's Stamp

HOHBACH-LEWIN, INC.
STRUCTURAL & CIVIL ENGINEERS
545 Sansome Street, Suite 850
San Francisco, CA 94111
(415) 318-8520

Consultant's Logo

PARTIAL FOUNDATION &
PARTIAL ROOF FRAMING PLAN

RUSSO-McENTEE ACADEMY- HVAC UPGRADES
2851 GAY AVE., SAN JOSE, CA 95127
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE
	DD SUBMITTAL	12-8-17
	DSA SUBMITTAL	01-31-18

DSA FILE NUMBER 43-04

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APPL 01-117267

AC ___ FLS ___ SS tm
DATE MAY 2 2 2018

DRAWN BY:	JC
CHECKED BY:	SAL
JOB NO:	DATE:
17116	10/16/2017

S2.1

HOHBACH-LEWIN #12482

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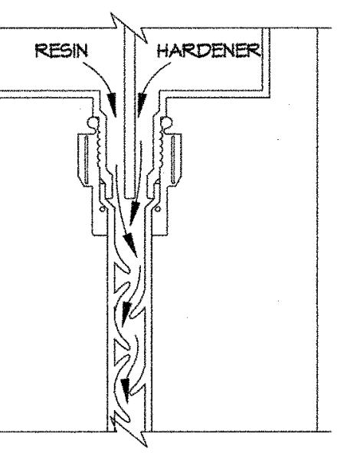
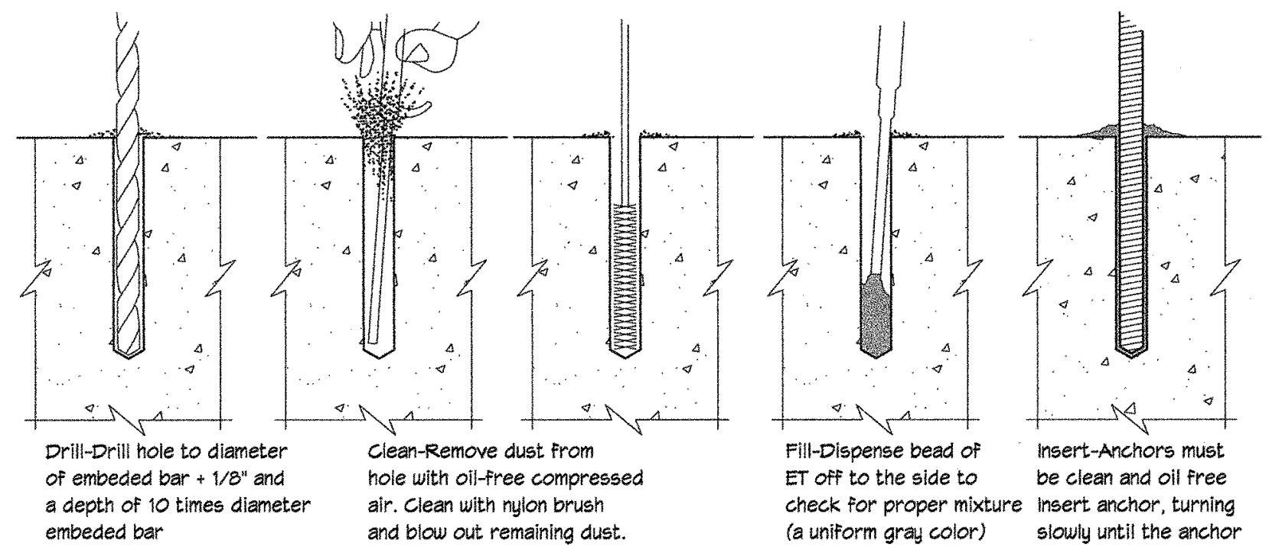
Epoxy-Tie Preparation
- * Insert cartridge into dispensing tool.
- * Remove plugs from cartridge and attach a mixing nozzle. Before injecting, check that nozzle is free of gelled or hardened material.
- * Dispense bead of Epoxy-Tie off to the side to check for proper mixture (a uniform gray color) before using.
- * Tighten retaining nut on nozzle. DO NOT OVER-TIGHTEN.
- * Caution: Epoxy will start to harden in the mixing nozzle after 7-8 minutes. Epoxy will harden faster as the air temperature increases. Replace nozzle to avoid blowouts.
- * If using a pneumatic dispensing tool, air pressure must be regulated at 80-100 psi.
- * A partially cartridge may be stored up to one year for future use. Store at a temperature above 45° F.



Installation into CONCRETE



Drill-Drill hole to diameter of embeded bar + 1/8" and a depth of 10 times diameter embeded bar

Clean-Remove dust from hole with oil-free compressed air. Clean with nylon brush and blow out remaining dust. Dust left in hole will reduce the epoxy's holding capacity.

Fill-Dispense bead of ET off to the side to check for proper mixture (a uniform gray color) before using. Fill hole halfway, starting from bottom of hole to avoid air pockets. Withdraw nozzle as hole fills up.

Insert-Anchors must be clean and oil free insert anchor, turning slowly until the anchor hits the bottom of the hole. Do not disturb during set time.

NOTE:
SPECIAL INSPECTION REQUIRED

1 INSTALLATION OF EPOXY - SIMPSON SET-XP ICC-ES ESR-2508

N.T.S.

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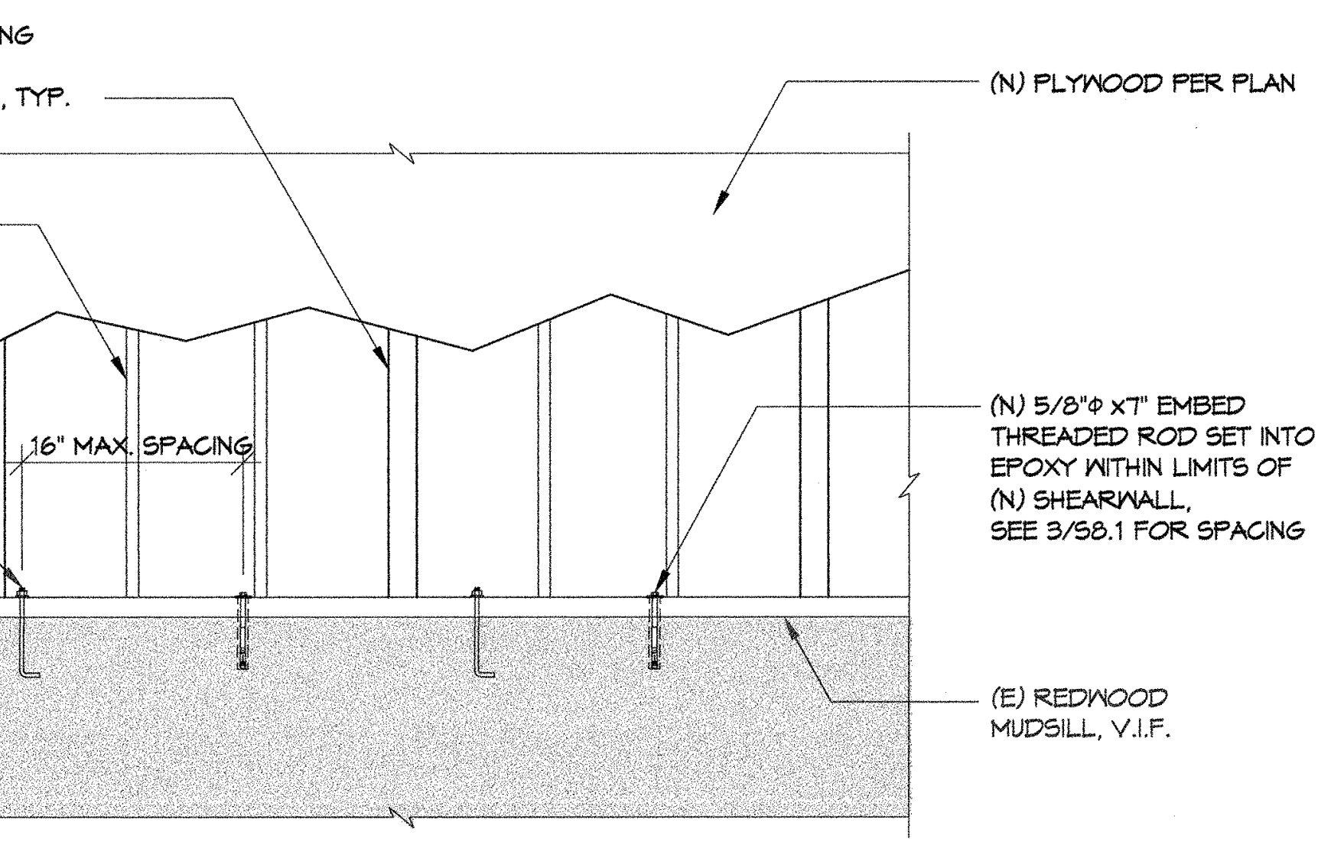
(N) 3X STUDS, AT ADJOINING PLYWOOD PANEL EDGES, PER SCHEDULE ON 3/S8.1, TYP.
(N) PLYWOOD PER PLAN
(E) OR (N) STUDS, TYP.
16" MAX. SPACING
(E) SILL BOLT, TYP.
(N) 5/8"Φ x7" EMBED THREADED ROD SET INTO EPOXY WITHIN LIMITS OF (N) SHEARWALL, SEE 3/S8.1 FOR SPACING
(E) REDWOOD MUDSILL, V.I.F.

2 SILL BOLTING

1/2"=1'-0"

15

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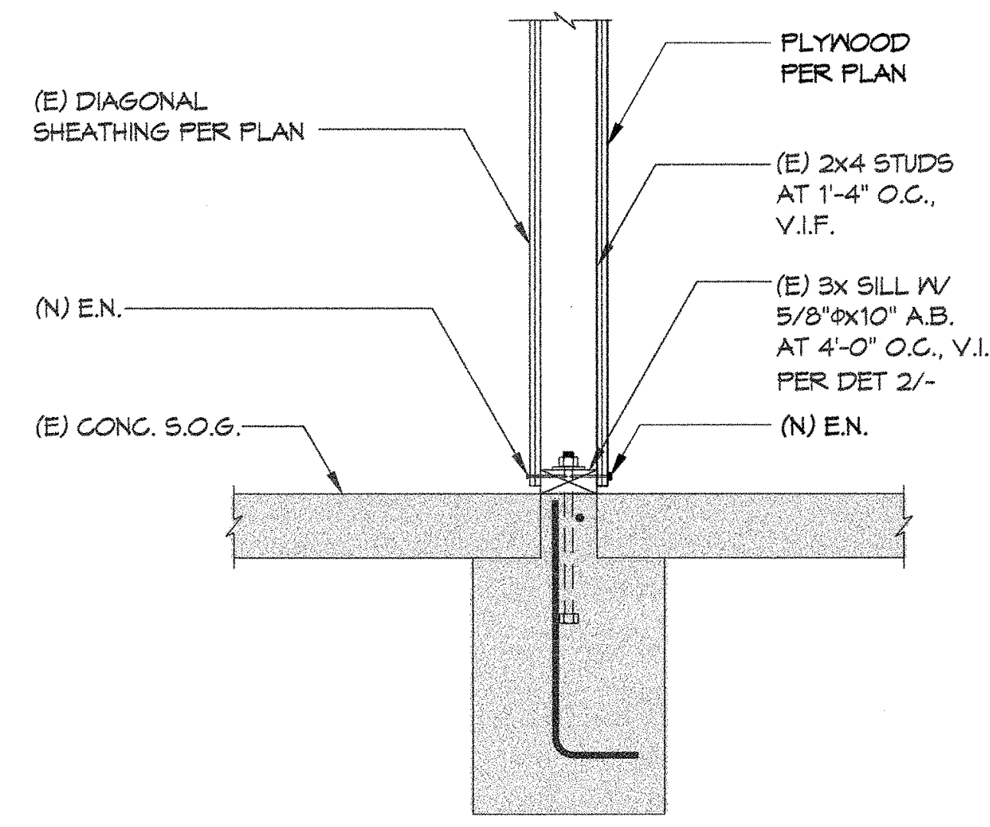
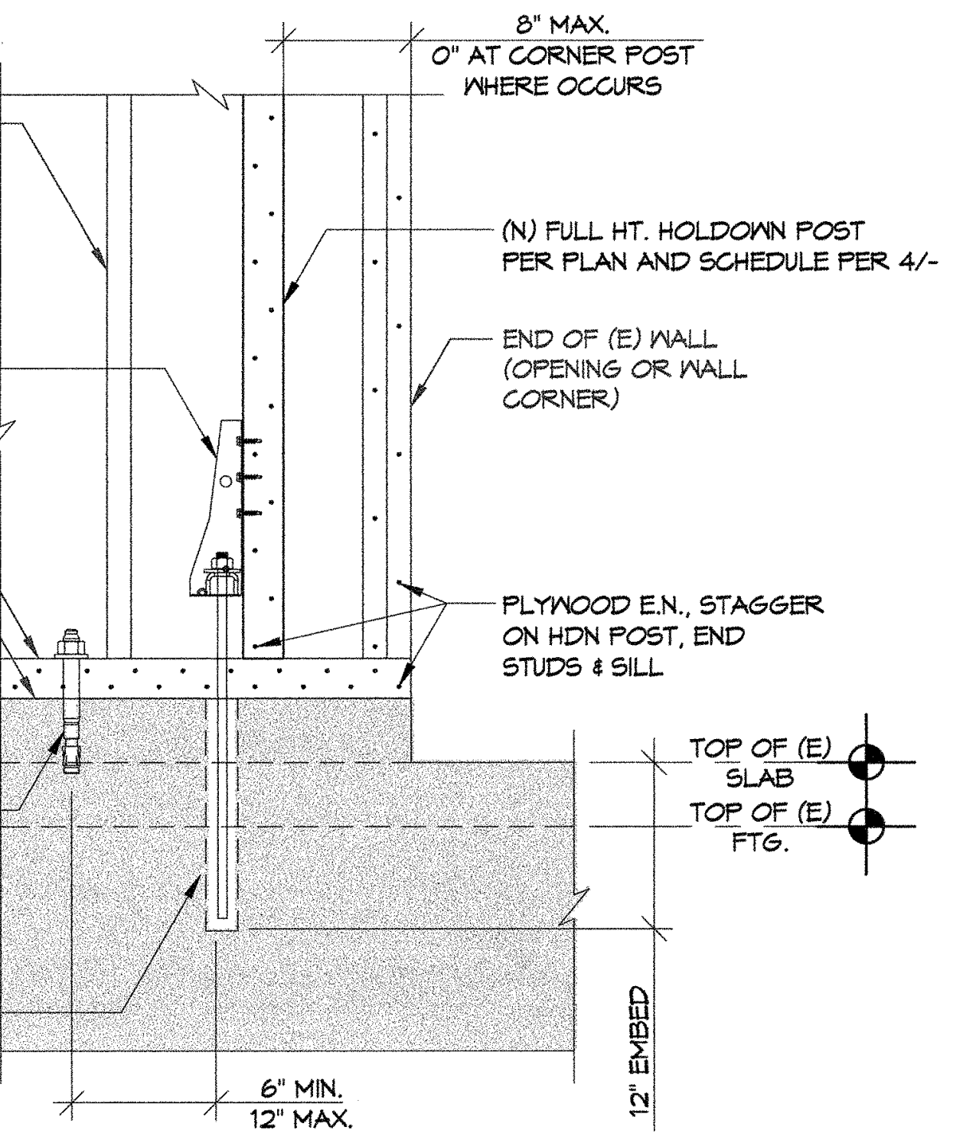

PLYWOOD PER PLAN
(E) DIAGONAL SHEATHING PER PLAN
(E) 2x4 STUDS AT 1'-4" O.C., V.I.F.
(N) E.N.
(E) 3x SILL W/ 5/8"Φx10" A.B. AT 4'-0" O.C., V.I.F. PER DET 2/-
(E) CONC. S.O.G.
(N) E.N.

7 DETAIL

1"=1'-0"


8" MAX.
0" AT CORNER POST WHERE OCCURS
(E) STUDWALL
(N) FULL HT. HOLDOWN POST PER PLAN AND SCHEDULE PER 4/-
HOLDOWN PER PLAN, CENTER ON POST, SEE DETAILS ON THIS SHEET
END OF (E) WALL (OPENING OR WALL CORNER)
(E) SILL PLATE
(E) CURB WHERE OCCURS
PLYWOOD E.N., STAGGER ON HDN POST, END STUDS & SILL
(E) OR (N) SILL ANCHOR BOLT AS REQUIRED BY FDN. PLAN
TOP OF (E) SLAB
TOP OF (E) FTG.
THREADED ROD SET IN EPOXY
12" EMBED
6" MIN.
12" MAX.

3 HOLDOWN AT (E) FOUNDATION

1"=1'-0"

16

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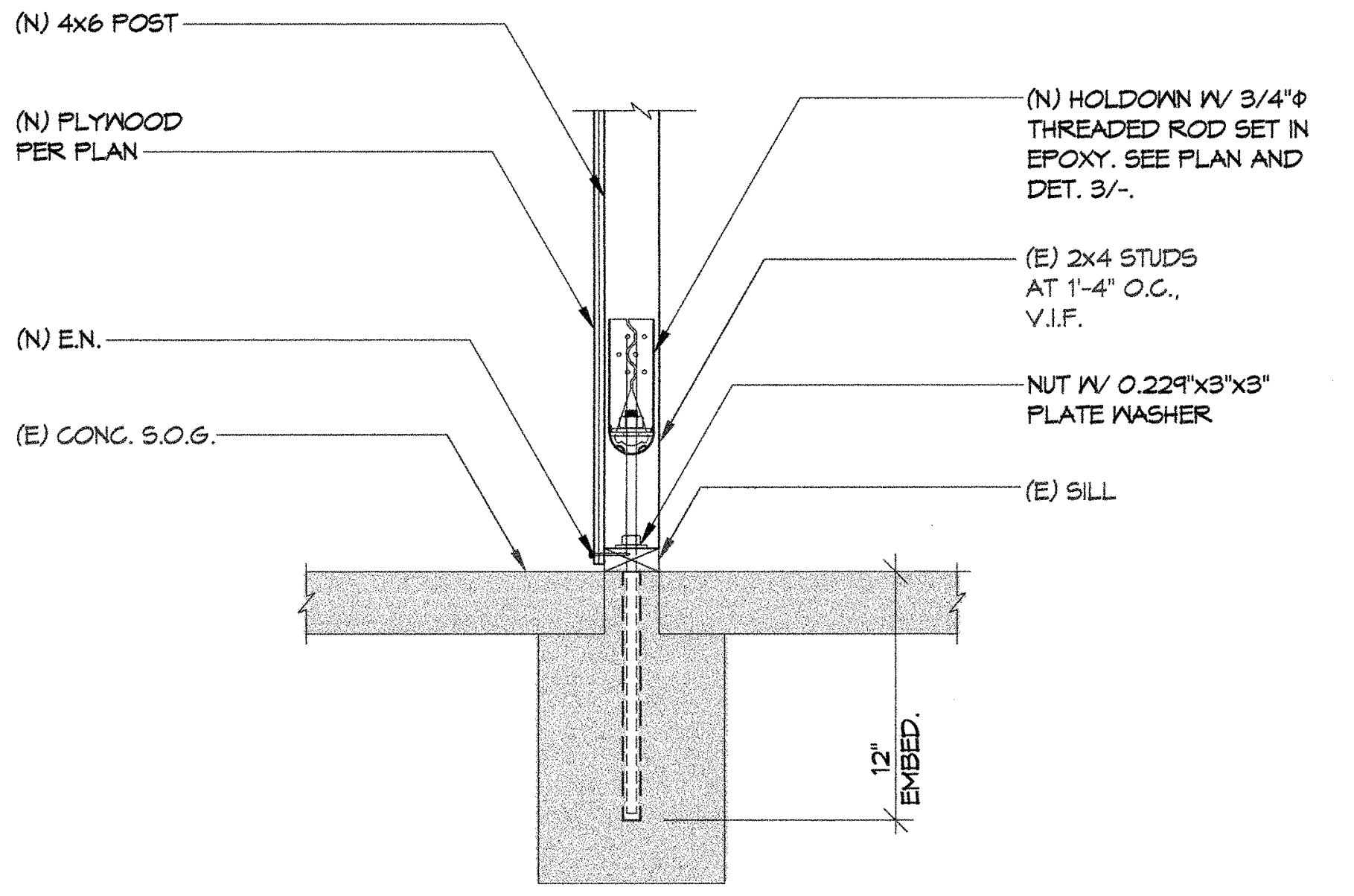
(N) 4x6 POST
(N) PLYWOOD PER PLAN
(N) HOLDOWN W/ 3/4"Φ THREADED ROD SET IN EPOXY. SEE PLAN AND DET. 3/-.
(E) 2x4 STUDS AT 1'-4" O.C., V.I.F.
(N) E.N.
NUT W/ 0.229"x3"x3" PLATE WASHER
(E) CONC. S.O.G.
(E) SILL
12" EMBED.

8 DETAIL

1"=1'-0"

1. SW = STUD WALL WIDTH
2. MIN. POST SIZE U.O.N. ON FOUNDATION PLAN.
3. DO NOT DAMAGE (E) REINFORCING FOR ANCHOR BOLT INSTALLATION, EXCEPT THAT (E) CURB REINF. MAY BE CUT IF REQUIRED.
4. REMOVE, REPAIR, REPLACE (E) WALL FINISHES & UTILITIES AS REQUIRED TO INSTALL NEW HOLDOWNS. WHERE (E) PLYWOOD OCCURS, REMOVE NO LESS THAN 2'-0" IN THE LEAST DIMENSION TO INSTALL HOLDOWN REPLACE PLYWOOD & BLOCKING & EN ALL AROUND.
5. HOLD DOWN SHALL BE INSTALLED TIGHT TO THE HOLD DOWN POST WITHOUT FILLERS OR DAPPING. DO NOT BEND HOLDOWN ANCHORS.
6. CUTTING OR DAMAGING THE EXISTING REINFORCEMENT DURING THE INSTALLATION OF NEW ANCHORAGE SYSTEM IS NOT PERMITTED. THE CONTRACTOR SHALL USE DRILLS EQUIPPED WITH GROUND FAULT INTERRUPTER, OR DETERMINE THE EXACT LOCATION OF THE EXISTING REINFORCING BARS PRIOR TO DRILLING OPERATIONS

4 HOLDOWN SCHEDULE

N.T.S.

SUGIMURA
FINNEY
ARCHITECTS
SFA
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Architect Of Record

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1 SHEAR WALL SCHEDULE NOTES

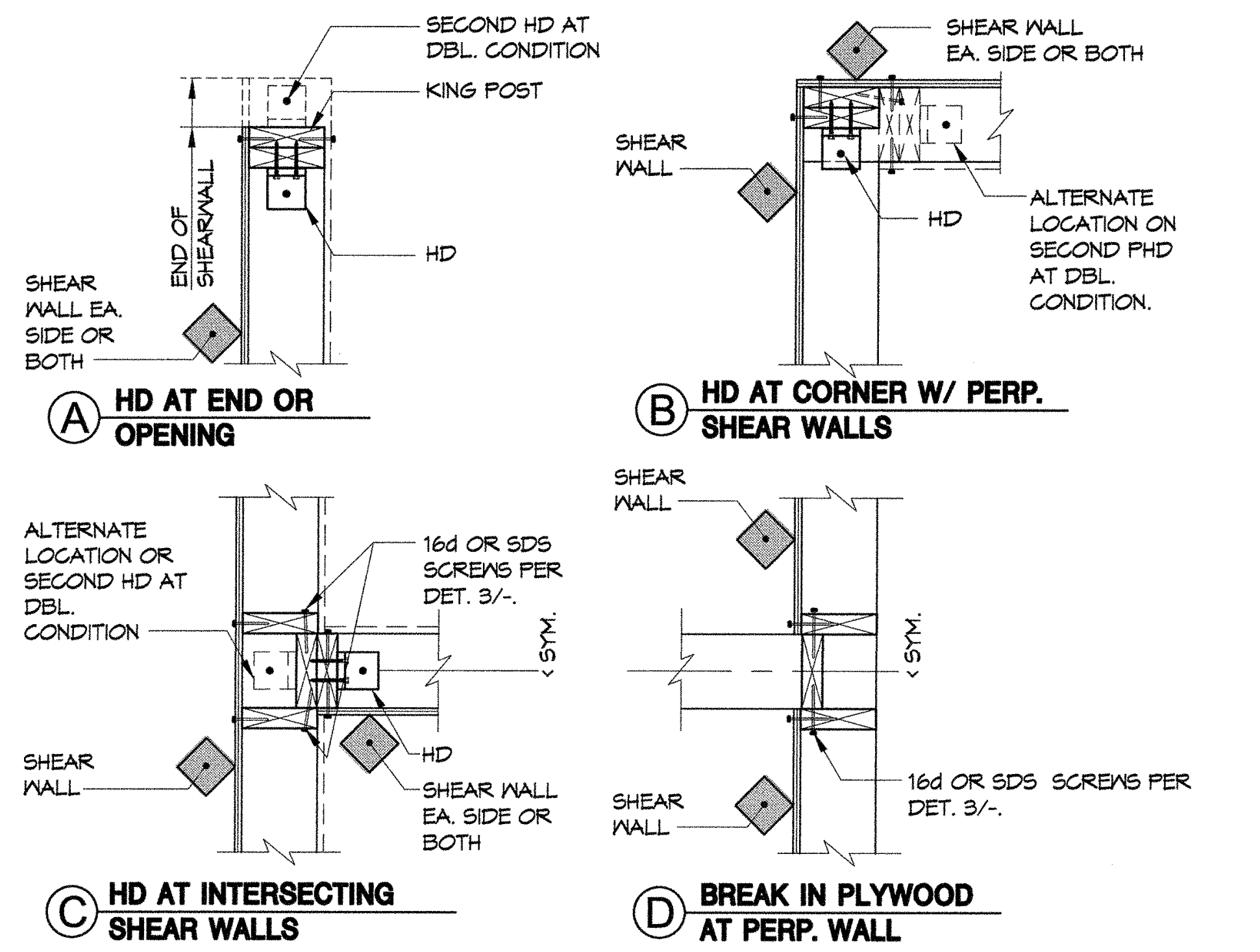
N.T.S.

1. USE 10d SHORTS (2 1/4"x0.148") COMMON WIRE NAILS U.O.N.
2. ◆# NUMBER SHOWN IN SYMBOL REPRESENTS PLYWOOD PANEL EDGE NAILING IN INCHES.

   ◆#◆# DENOTES DOUBLE SHEAR WALL WITH PLYWOOD ON BOTH SIDES. NUMBER SHOWN IN SYMBOL REPRESENTS PLYWOOD PANEL EDGE NAILING IN INCHES.
3. LTP4 OR RBC MAY BE USED AS AN ALTERNATE TO A35.
4. FOR ANCHOR BOLT AND MUD SILL DETAIL. SEE DET. 9/-.
5. SOLE PLATE NAILING AND SCREWS AT FLOOR SHALL BE SPACED PER SCHEDULE FOR SHEAR WALL BELOW AS SHOWN ON DETAIL DET. 3A/-.
6. ALL FRAMING MEMBERS RECEIVING EDGE NAILING FROM ABUTTING PLYWOOD PANELS SHALL BE 3x OR GREATER, SEE DET. 3/- FOR NAILING PATTERN. ALTERNATIVELY, USE DOUBLE 2x STUDS NAILED TOGETHER WITH 16d NAILS SPACED TO MATCH SHEARWALL E.N. SPACING, SEE NOTE 2.
7. FOLLOW MANUFACTURER'S INSTALLATION REQUIREMENTS FOR ALL MANUFACTURED PRODUCTS.
8. FOR ADDITIONAL SHEAR WALL FRAMING INFORMATION SEE DET. 4/-.
9. SOLE > SCREWS ARE FOR INTERIOR SHEAR WALLS.
10. 2x MUD SILL MAY BE USED AT 6" NAILED SHEAR WALLS WITH 5/8"φ ANCHOR BOLTS AT 3'-4" O.C. MINIMUM.
11. 8d COMMON NAILS SHALL BE USED WITH LTP4 SHEAR CLIPS.
12. SEE DETAILS 3/- FOR SHEAR WALL SCHEDULE.
13. SEE DETAILS 4/- FOR SHEAR WALL ELEVATION.

2 SHEAR TRANSFER AND/OR HD LOCATION

N.T.S.


SECOND HD AT DBL. CONDITION
KING POST
END OF SHEARWALL
HD
SHEAR WALL EA. SIDE OR BOTH
SHEAR WALL EA. SIDE OR BOTH
SHEAR WALL
HD
ALTERNATE LOCATION ON SECOND PHD AT DBL. CONDITION.
ALTERNATE LOCATION OR SECOND HD AT DBL. CONDITION
16d OR SDS SCREWS PER DET. 3/-.
SYM.
SHEAR WALL
HD
SHEAR WALL EA. SIDE OR BOTH
SHEAR WALL
SYM.
SHEAR WALL
16d OR SDS SCREWS PER DET. 3/-.

Ⓐ HD AT END OR OPENING

Ⓑ HD AT CORNER W/ PERP. SHEAR WALLS

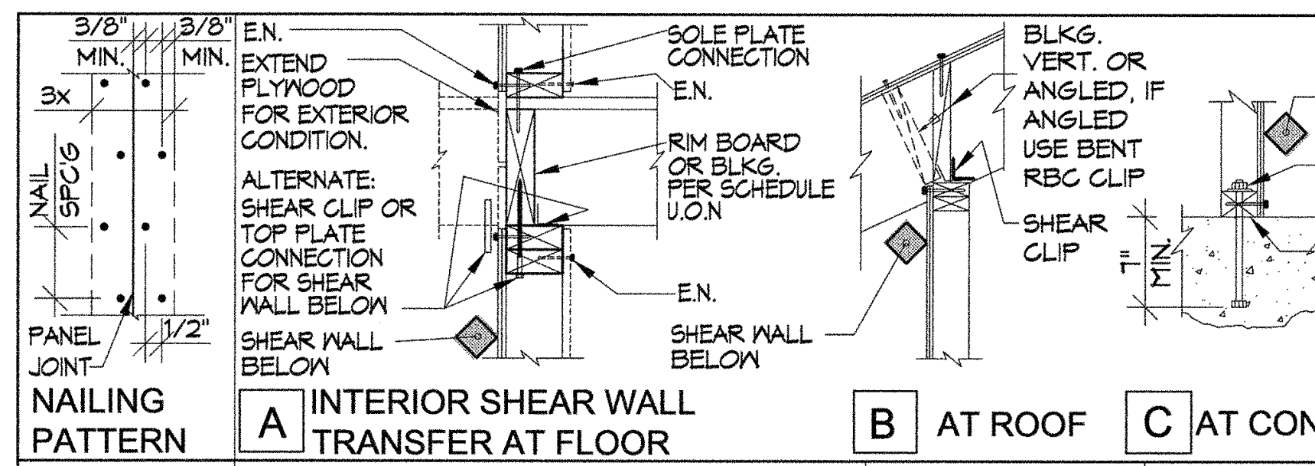
Ⓒ HD AT INTERSECTING SHEAR WALLS

Ⓓ BREAK IN PLYWOOD AT PERP. WALL

NOTES:
1. ALL SHEATHING NAILING SHOWN IS PANEL E.N. U.O.N.
2. FOR HOLDOWN INFO. SEE DET. 3 & 5/S5.1

3 SHEAR WALL SCHEDULE - 15/32" STRUCT 1 PLYWOOD

N.T.S.


3/8" MIN.
3/8" MIN.
3x
NAIL SPC'G
1/2"
PANEL JOINT
E.N.
EXTEND PLYWOOD FOR EXTERIOR CONDITION.
ALTERNATE: SHEAR CLIP OR TOP PLATE CONNECTION FOR SHEAR WALL BELOW
SHEAR WALL BELOW
SOLE PLATE CONNECTION
E.N.
RIM BOARD OR BLKG. PER SCHEDULE U.O.N
E.N.
SHEAR WALL BELOW
BLKG. VERT. OR ANGLED, IF ANGLED USE BENT RBC CLIP
SHEAR CLIP
1'-0" MIN.
SHEAR-WALL
ANCHOR BOLT (4)
TYP. 3x MUD SILL U.O.N.

NAILING PATTERN

A INTERIOR SHEAR WALL TRANSFER AT FLOOR

B AT ROOF

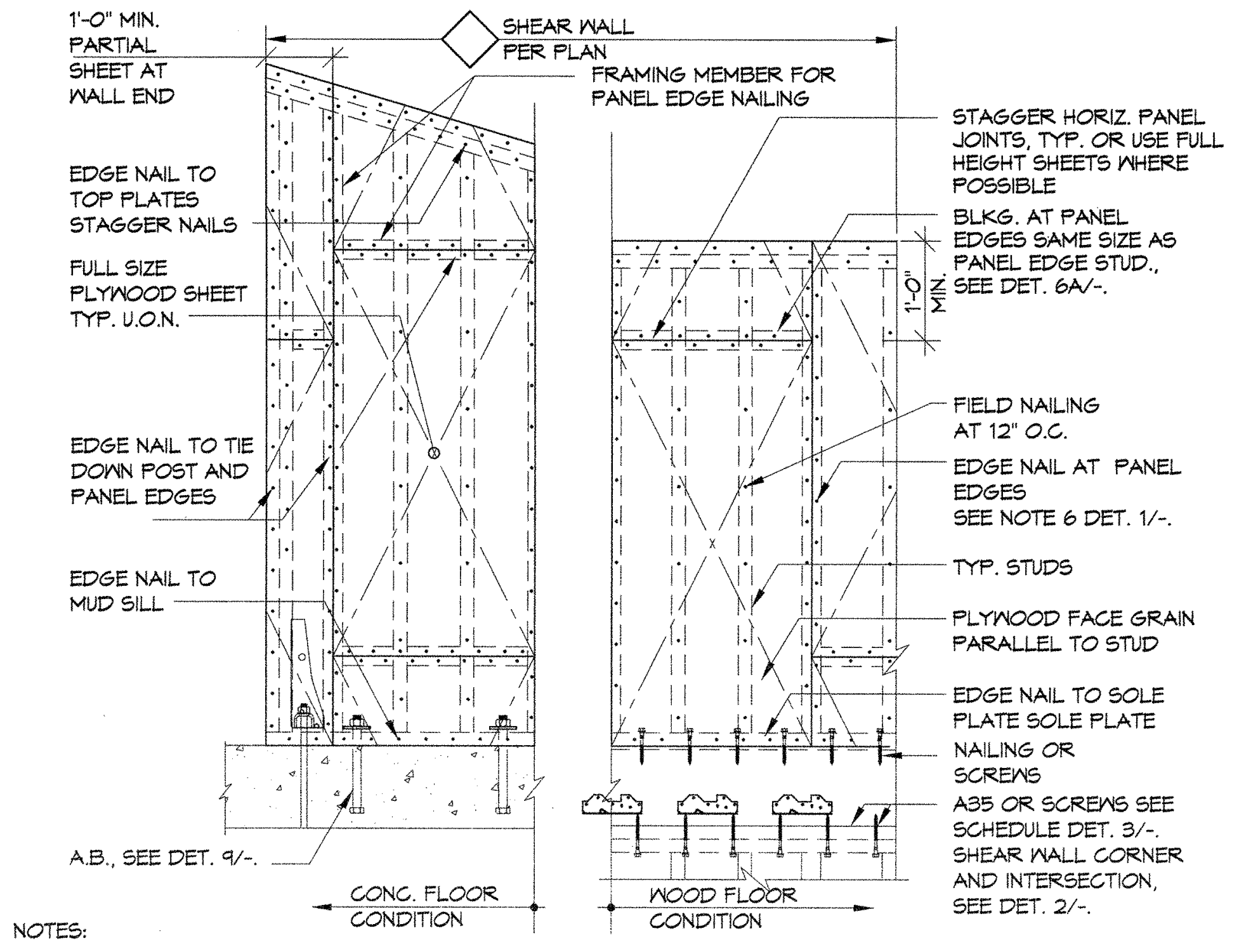
C AT CONCRETE

SHEAR WALL SYMBOL, MARK	SOLE PLATE OR TOP PLATE CONNECTIONS (A)			SHEAR CLIPS (B)	ANCHOR BOLT SIZE & MAX. SPACING
	16d SINKER NAILS	SDS 1/4x6	MIN. RIM	LTP4 OR A35 (3)	
◆6 (10)	6" O.C.	16" O.C.	1 1/2"	24" O.C.	5/8"φ AT 4'-0" O.C.
◆4 (6)	4" O.C.	12" O.C.	1 1/2"	16" O.C.	5/8"φ AT 2'-0" O.C.

(#) INDICATES NOTES PER DET. 1/-
(A) EITHER NAILS OR SCREWS MAY BE USED FOR SOLE PLATE CONNECTION PER SCHEDULE
(B) EITHER A35 OR LTP4 MAY BE USED FOR SHEAR CLIPS AS APPLICABLE PER SCHEDULE

4 SHEAR WALL ELEVATION

N.T.S.

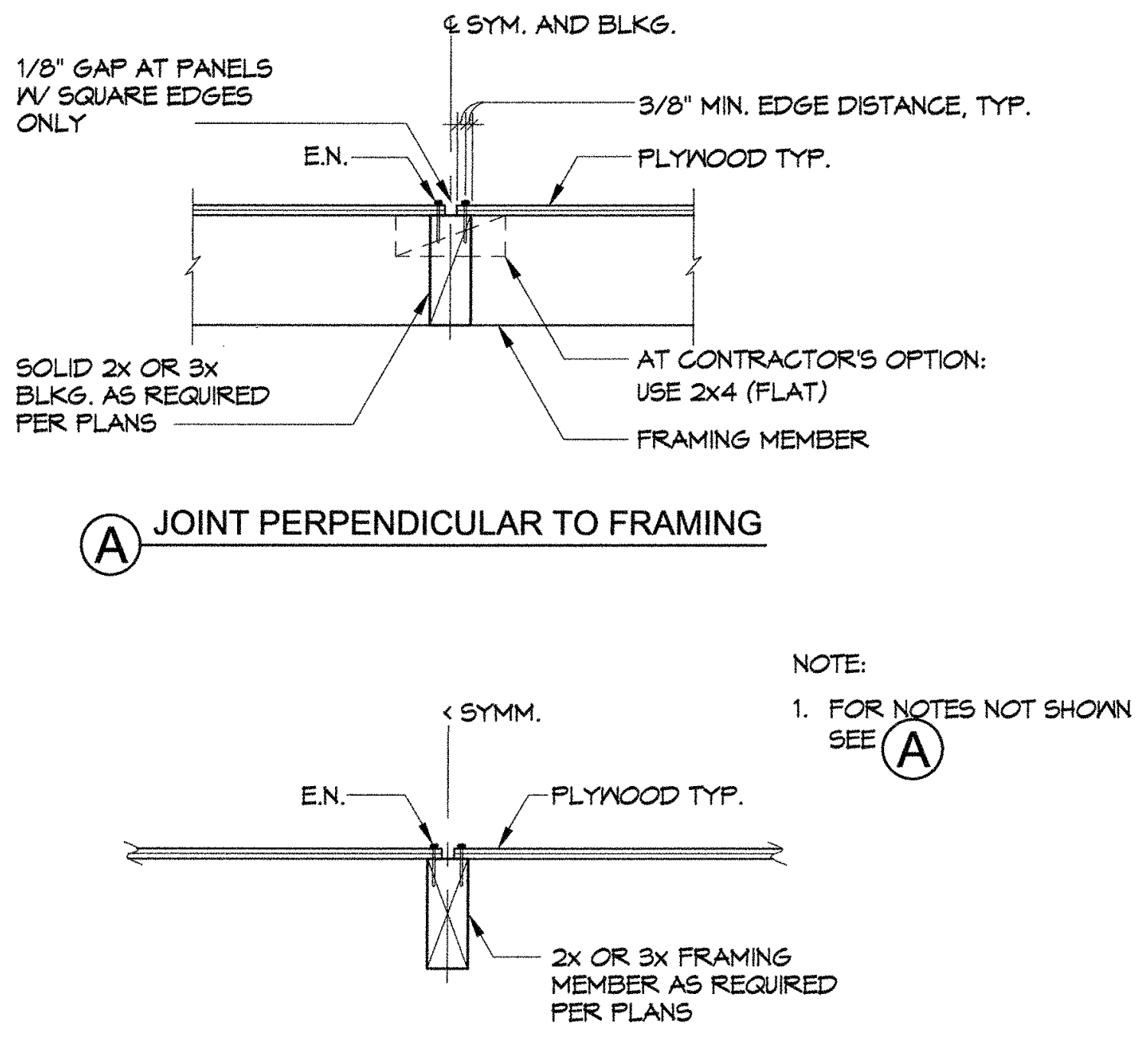

1'-0" MIN. PARTIAL SHEET AT WALL END
SHEAR WALL PER PLAN
FRAMING MEMBER FOR PANEL EDGE NAILING
EDGE NAIL TO TOP PLATES STAGGER NAILS
FULL SIZE PLYWOOD SHEET TYP. U.O.N.
EDGE NAIL TO TIE DOWN POST AND PANEL EDGES
EDGE NAIL TO MUD SILL
A.B., SEE DET. 9/-.
CONC. FLOOR CONDITION
WOOD FLOOR CONDITION
STAGGER HORIZ. PANEL JOINTS, TYP. OR USE FULL HEIGHT SHEETS WHERE POSSIBLE
BLKG. AT PANEL EDGES SAME SIZE AS PANEL EDGE STUD., SEE DET. 6A/-.
1'-0" MIN.
FIELD NAILING AT 12" O.C.
EDGE NAIL AT PANEL EDGES SEE NOTE 6 DET. 1/-.
TYP. STUDS
PLYWOOD FACE GRAIN PARALLEL TO STUD
EDGE NAIL TO SOLE PLATE SOLE PLATE NAILING OR SCREWS
A35 OR SCREWS SEE SCHEDULE DET. 3/-. SHEAR WALL CORNER AND INTERSECTION, SEE DET. 2/-.

NOTES:
1. SEE SHEET S1.0 FOR PANEL THICKNESS AND GRADE.
2. HOLD DOWNS NOT SHOWN FOR CLARITY.

5

6 PLYWOOD NAILING

N.T.S.


℄ SYM. AND BLKG.
1/8" GAP AT PANELS W/ SQUARE EDGES ONLY
3/8" MIN. EDGE DISTANCE, TYP.
E.N.
PLYWOOD TYP.
SOLID 2x OR 3x BLKG. AS REQUIRED PER PLANS
AT CONTRACTOR'S OPTION: USE 2x4 (FLAT)
FRAMING MEMBER
SYMM.
E.N.
PLYWOOD TYP.
2x OR 3x FRAMING MEMBER AS REQUIRED PER PLANS

Ⓐ JOINT PERPENDICULAR TO FRAMING

NOTE:
1. FOR NOTES NOT SHOWN SEE Ⓐ

Ⓑ JOINT PARALLEL TO FRAMING

7 WINDOW/ DOOR FRAMING SCHEDULE

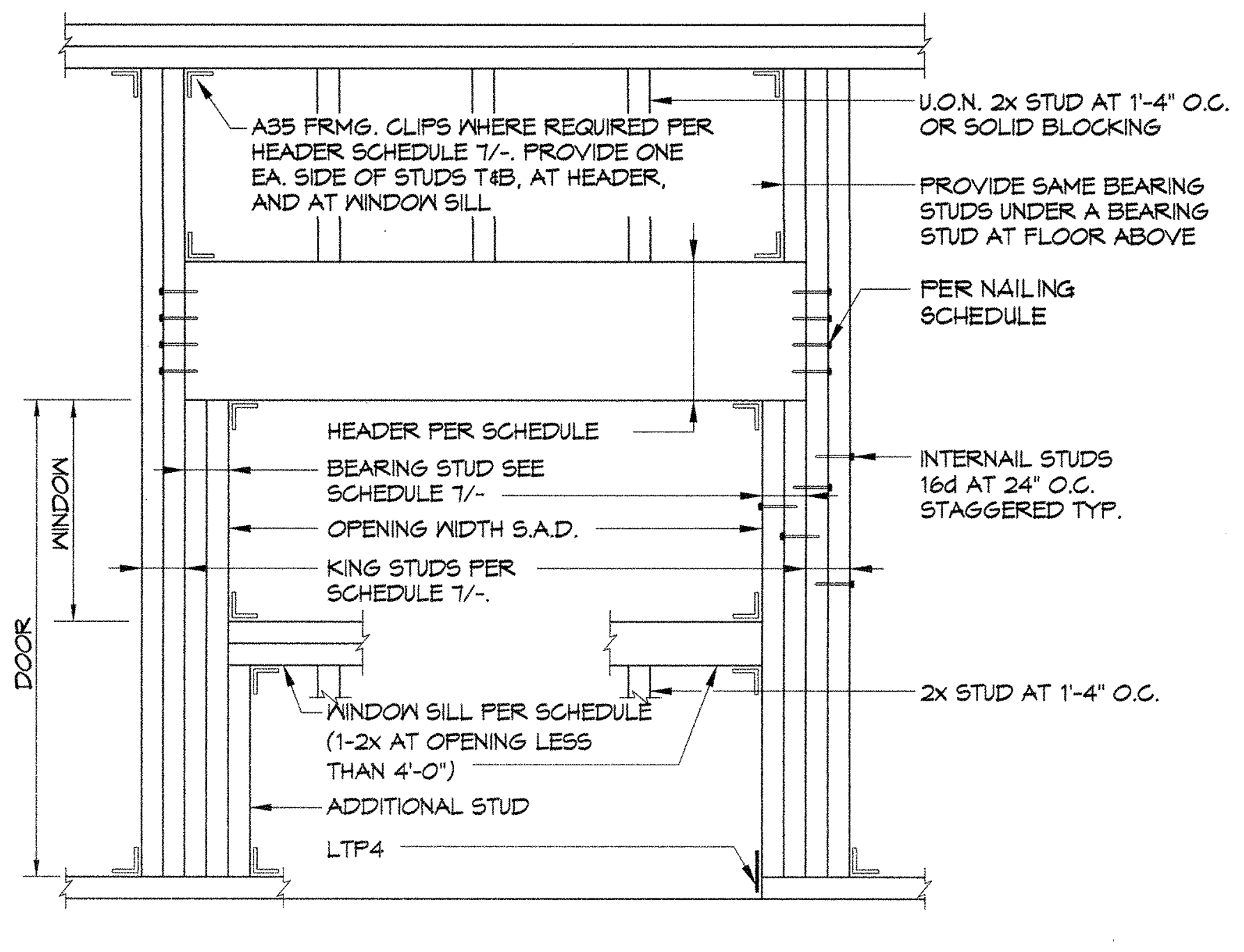
N.T.S.

NOTES:
1. UNLESS OTHERWISE NOTED ON PLANS USE CBC 2013 TABLE 2304.10.1 FOR OTHER NAILING REQUIREMENTS NOT NOTED.
2. FOR ADDITIONAL FRAMING INFO., SEE DET. 8/-.

MAX. OPENING WIDTH	EXTERIOR WALL					INTERIOR WALL			
	BEARING STUD	KING STUD	MIN. HEADER SIZE(1)	WINDOW SILL	FRAMING CLIPS	BEARING STUD	KING STUD	MIN. HEADER SIZE	WINDOW SILL
4'-0"	2x6	2x6	6x6	2x6	NONE	2x4	2x4	4x6	2x4
6'-0"	2x6	2x6	6x6	2x6	NONE	2x4	2x4	4x8	2x4
8'-0"	(2) 2x6	(2) 2x6	6x8	(2) 2x6	A35'S WHERE SHOWN	2x4	2x4	4x10	(2) 2x4

8 TYPICAL FRAMING OPENINGS IN WALL

1"=1'-0"

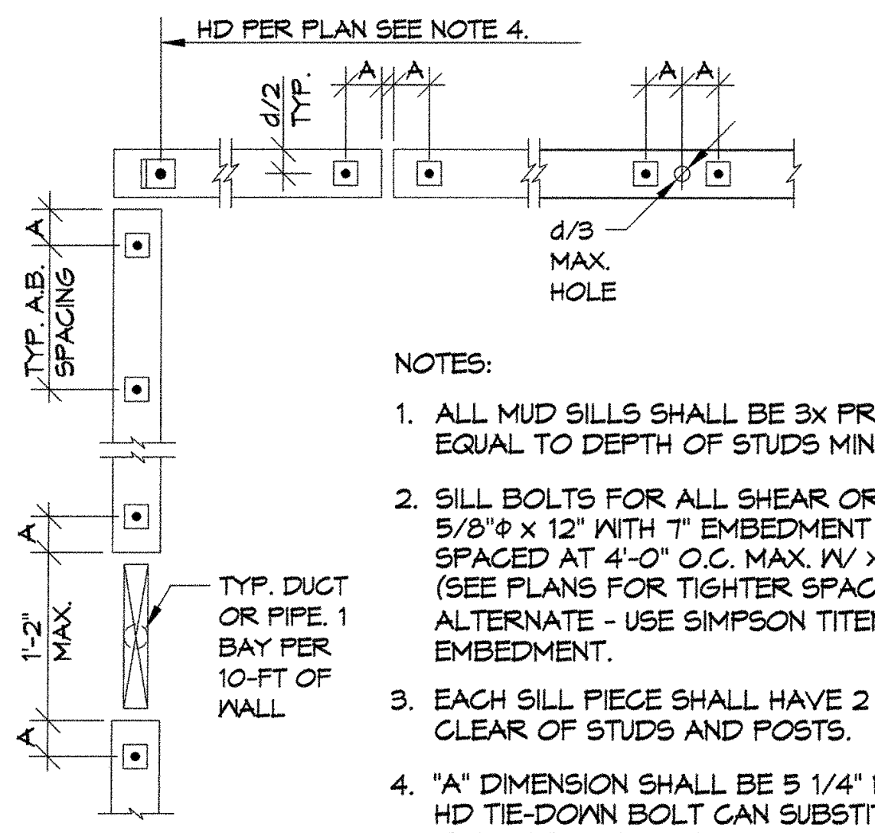

A35 FRMG. CLIPS WHERE REQUIRED PER HEADER SCHEDULE 7/-. PROVIDE ONE EA. SIDE OF STUDS T&B, AT HEADER, AND AT WINDOW SILL
U.O.N. 2x STUD AT 1'-4" O.C. OR SOLID BLOCKING
PROVIDE SAME BEARING STUDS UNDER A BEARING STUD AT FLOOR ABOVE
PER NAILING SCHEDULE
HEADER PER SCHEDULE
BEARING STUD SEE SCHEDULE 7/-
OPENING WIDTH S.A.D.
KING STUDS PER SCHEDULE 7/-.
INTERNAIL STUDS 16d AT 24" O.C. STAGGERED TYP.
WINDOW
DOOR
WINDOW SILL PER SCHEDULE (1-2x AT OPENING LESS THAN 4'-0")
2x STUD AT 1'-4" O.C.
ADDITIONAL STUD
LTP4

Ⓐ BASE AT WINDOW

Ⓑ BASE AT DOOR

9 MUD SILL & ANCHOR BOLT REQUIREMENTS

N.T.S.

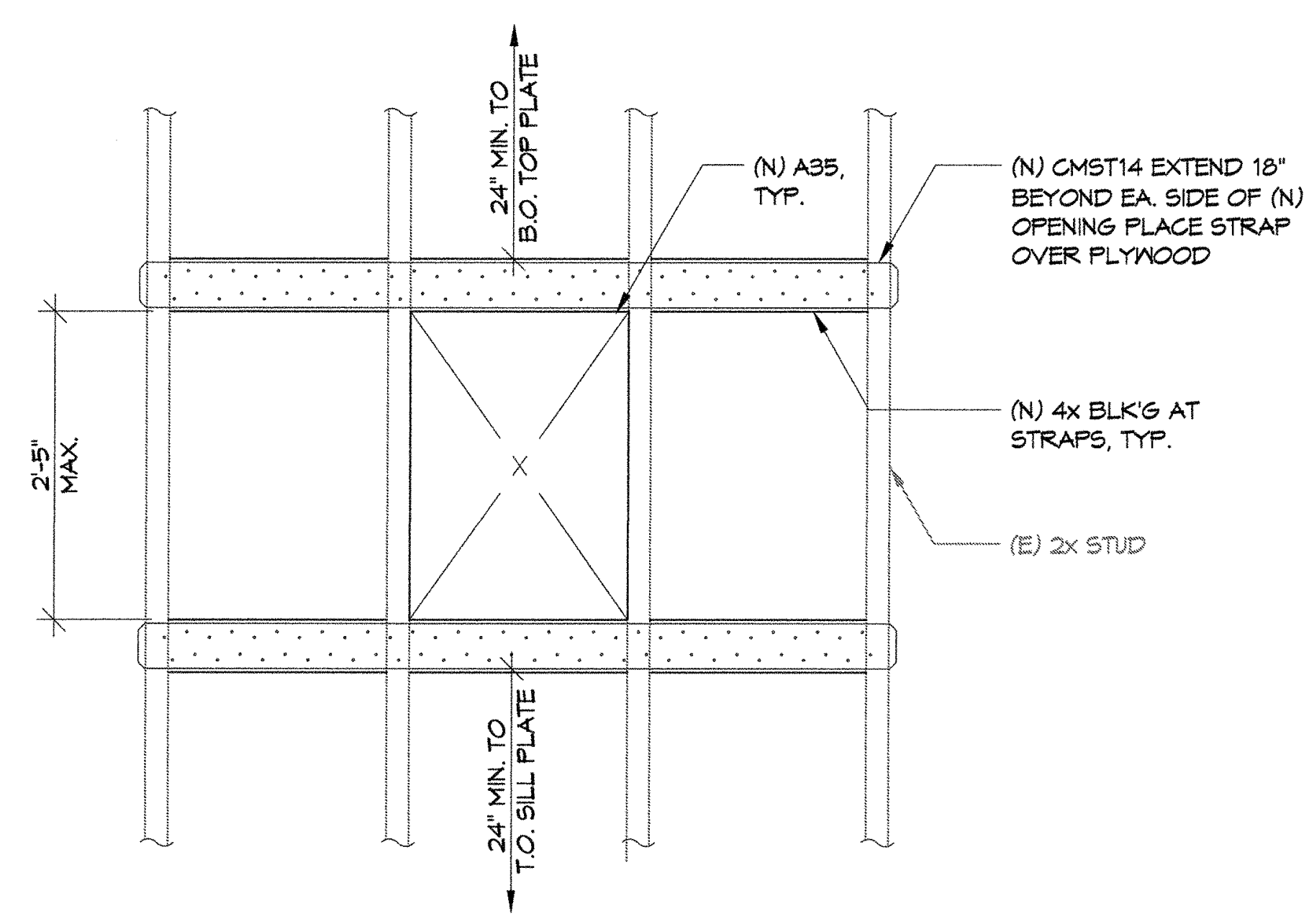


NOTES:
1. ALL MUD SILLS SHALL BE 3x PRESSURE TREATED D.F. OF WIDTH EQUAL TO DEPTH OF STUDS MIN. U.O.N.
2. SILL BOLTS FOR ALL SHEAR OR BEARING WALLS SHALL BE 5/8"φ x 12" WITH 7" EMBEDMENT OR THREADED ROD W/ NUT SPACED AT 4'-0" O.C. MAX. W/ > 3"x3"x0.229" WASHERS U.O.N. (SEE PLANS FOR TIGHTER SPACING AND DETAIL 4/S8.1) ALTERNATE - USE SIMPSON TITEN HD SAME DIAMETER W/ 2 3/4" EMBEDMENT.
3. EACH SILL PIECE SHALL HAVE 2 BOLTS MINIMUM. LOCATE BOLTS CLEAR OF STUDS AND POSTS.
4. "A" DIMENSION SHALL BE 5 1/4" MINIMUM AND 1'-0" MAXIMUM A HD TIE-DOWN BOLT CAN SUBSTITUTE FOR AN ANCHOR BOLT IF IT IS INSTALLED WITH AN ADDITIONAL NUT AND > WASHER SNUG TIGHT TO THE MUD SILL.
5. IF ANCHOR BOLT IS NOT PROTECTED BY HOT-DIP GALVANIZING, APPLY A PROTECTIVE COAT AROUND THE PORTION OF ANCHOR NEAR THE PRESERVATIVE TREATED WOOD MEMBER WITH CONSTRUCTION ADHESIVE OR CAULKING.
6. ALL NAILS INTO P.T. MUD SILL SHALL BE HOT-DIP GALVANIZED.

10 (N) SMALL OPENING IN (E) SHEAR WALL

1"=1'-0"

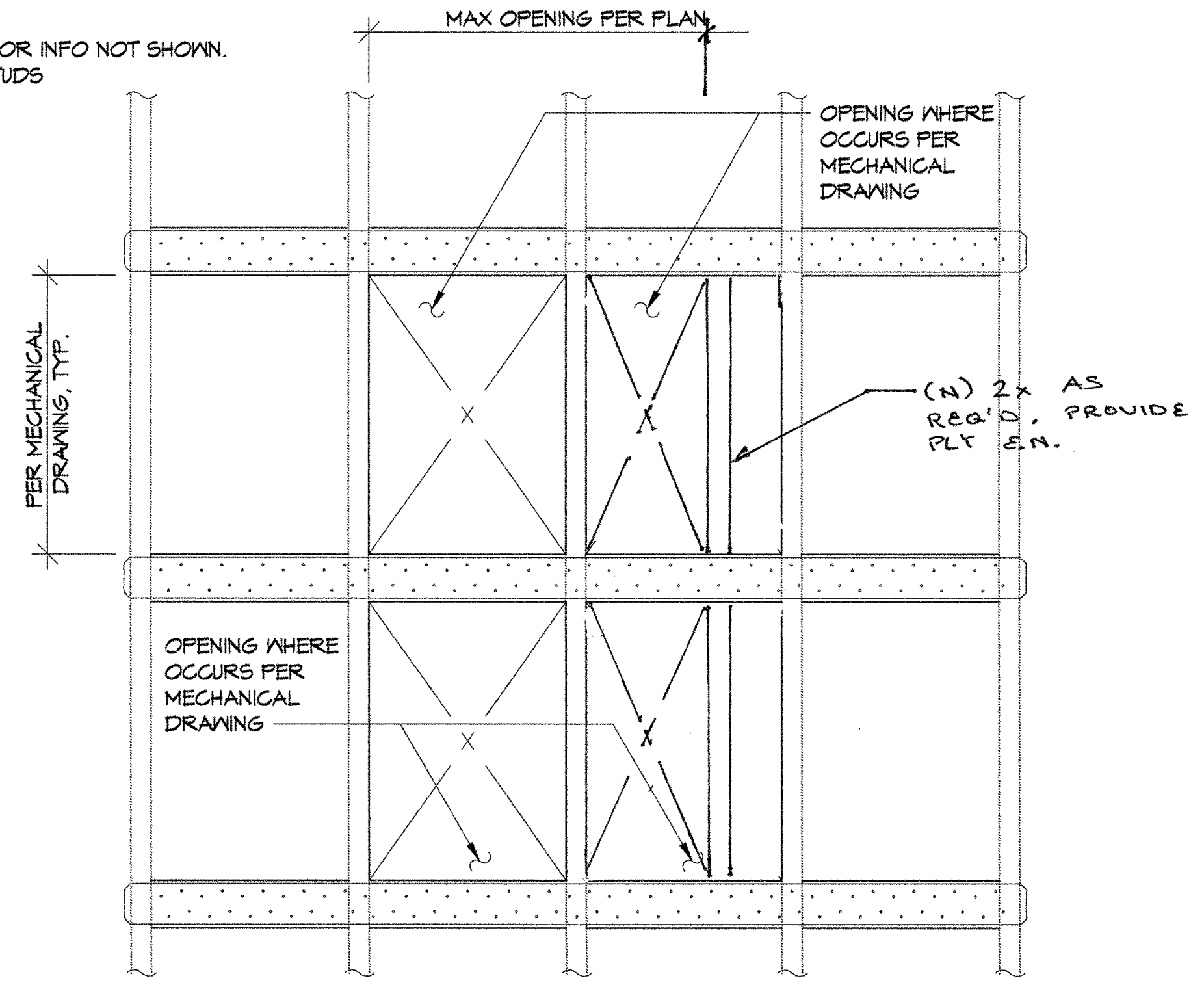
NOTES:
1. PLYWOOD NOT SHOWN FOR CLARITY.
2. G.C. TO NOTIFY HOHBACH-LEWIN INC. IF OPENING IS LARGER THAN SHOWN OR IF MORE THAN ONE OPENING IS NEEDED.
3. DO NOT CUT STUDS.


24" MIN. TO B.O. TOP PLATE
(N) A35, TYP.
(N) CMST14 EXTEND 18" BEYOND EA. SIDE OF (N) OPENING PLACE STRAP OVER PLYWOOD
2'-5" MAX.
(N) 4x BLK'G AT STRAPS, TYP.
(E) 2x STUD
24" MIN. TO T.O. SILL PLATE

11 (N) MULTIPLE OPENINGS IN (E) SHEAR WALL

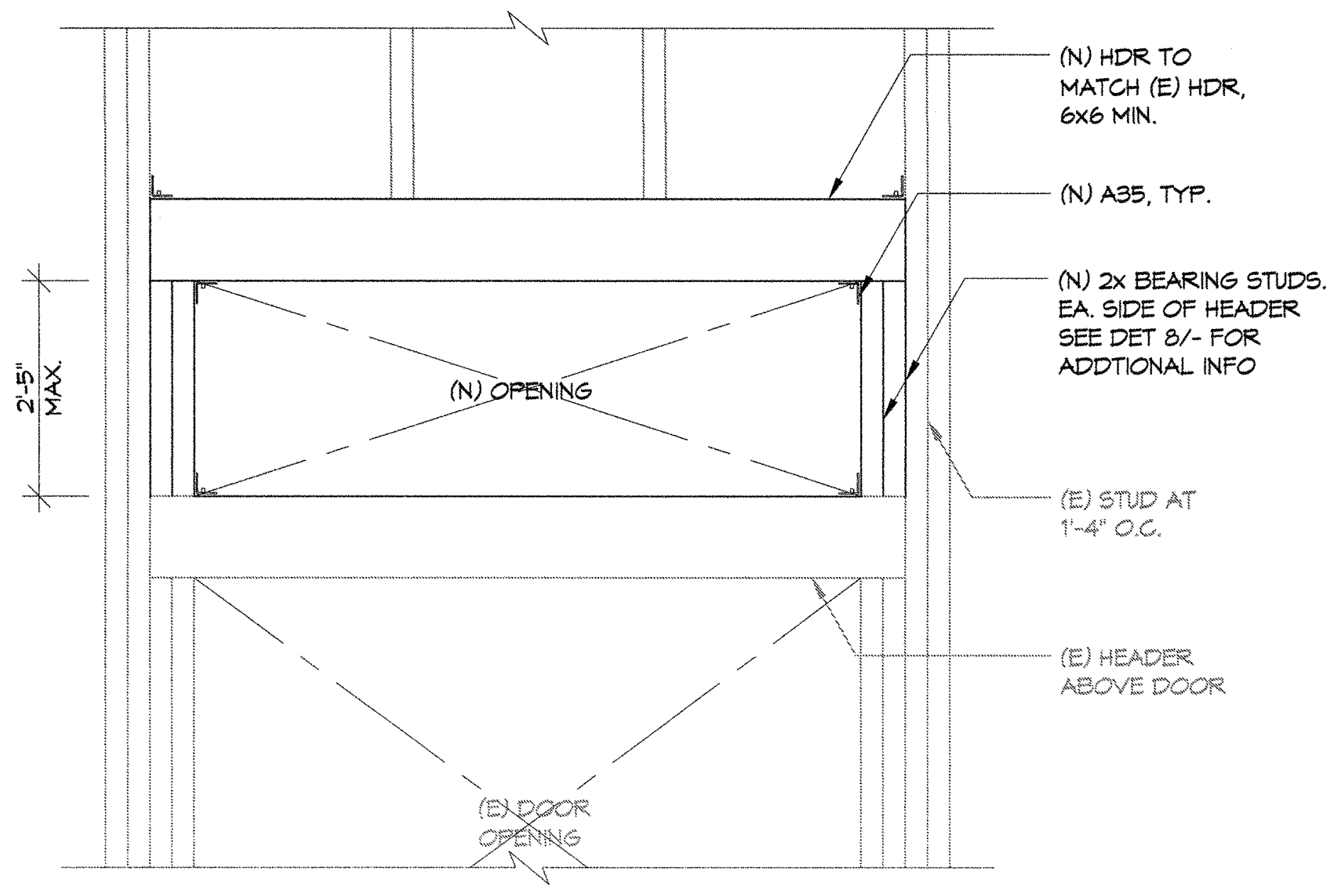
1"=1'-0"

NOTES:
1. SEE DET 10/- FOR INFO NOT SHOWN.
2. DO NOT CUT STUDS


MAX OPENING PER PLAN
OPENING WHERE OCCURS PER MECHANICAL DRAWING
PER MECHANICAL DRAWING, TYP.
(N) 2x AS REQ'D. PROVIDE PLT E.N.
OPENING WHERE OCCURS PER MECHANICAL DRAWING

12 (N) OPENING IN (E) WALL ABOVE DOOR

1"=1'-0"


(N) HDR TO MATCH (E) HDR, 6x6 MIN.
(N) A35, TYP.
(N) 2x BEARING STUDS. EA. SIDE OF HEADER SEE DET 8/- FOR ADDTIONAL INFO
2'-5" MAX.
(N) OPENING
(E) STUD AT 1'-4" O.C.
(E) HEADER ABOVE DOOR
(E) DOOR OPENING

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HOHBACH-LEWIN #12482

GENERAL NOTES:

1. THIS PROJECT IS A REMODEL. THE PLANS AND SPECIFICATIONS INDICATE THE GENERAL EXTENT OF THE WORK BASED ON OWNER PROVIDED RECORD DRAWINGS AND LIMITED FIELD VERIFICATION. CONTRACTOR SHALL VISIT SITE, VERIFY EXISTING CONDITIONS, AND REPORT ANY DISCREPANCIES NOTED TO THE ARCHITECT PRIOR TO SUBMITTING A BID. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISCONNECTION AND RECONNECTION OF MECHANICAL, PLUMBING, AND ELECTRICAL SYSTEMS NECESSARY TO ACCOMPLISH THE WORK WHETHER OR NOT SPECIFIED AND/OR INDICATED.
2. CUTTING OR CORING OF STRUCTURAL MEMBERS OR FOOTINGS IS PROHIBITED WITHOUT THE PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER AND THE ARCHITECT.
3. CONTRACTOR SHALL VERIFY THAT THE ELECTRICAL CONNECTIONS TO THE UNITS, INCLUDING CIRCUIT PROTECTION, CONFORM TO UNIT LABELS AND MANUFACTURER'S DIRECTIONS. WHERE WIRE SIZES SHOWN ON DRAWING EXCEED MANUFACTURER'S RECOMMENDATIONS, THE DRAWINGS SHALL GOVERN. ALL WIRING SHALL BE PER THE NATIONAL ELECTRICAL CODE. AS AMENDED AND ENFORCED BY JURISDICTIONAL AUTHORITY.
4. PROVIDE SHOP DRAWINGS OF ALL MECHANICAL LAYOUTS SHOWING EQUIPMENT, DUCTWORK, REGISTERS, PIPING, FILTER RACKS, CONTROL DAMPERS, LIGHTS, ACCESS PANELS AND ACCESS SPACES, ETC.. OBTAIN AND COORDINATE WITH APPROVED FIRE SPRINKLER PLUMBING, ELECTRICAL, CASE WORK AND OTHER TRADES SHOP DRAWINGS PRIOR TO MECHANICAL DRAWING SUBMITTAL.
5. COORDINATE EXACT GRILLE, DIFFUSER AND ACCESS DOOR LAYOUT WITH LIGHTS AND CEILING MOUNTED APPLIANCES.
6. PROVIDE STEEL DUCTS ABOVE RATED CEILINGS AND MINIMUM 18" BEYOND RATED WALLS.
7. SUPPORT DUCTS TIGHT BELOW STRUCTURE WHEREVER POSSIBLE.
8. PROVIDE ACOUSTICAL LINING IN ALL DUCTS WITHIN 15 FEET OF UNITS. PROVIDE FLEXIBLE CONNECTION ON INLET AND OUTLET DUCT CONNECTIONS TO EQUIPMENT.
9. FLASHING AND WEATHERPROOFING AT EXTERIOR PENETRATIONS ARE SHOWN ON THE ARCHITECTURAL DRAWINGS.
10. COORDINATE WITH OWNER ON SPACE REQUIRED AND TIME SCHEDULE FOR DELIVERY OF ALL ITEMS WHICH ARE TO BE GIVEN TO THE OWNER FOR HIS DISPOSITION.
11. FOR ROOF PENETRATIONS WITHOUT CURBS, PROVIDE WEATHERPROOF FLASHING PER SMACNA ARCHITECTURAL SHEET METAL MANUAL AND DRAWING NOTES.
12. ALL TRANSITIONS IN DUCTWORK SHALL BE MADE AT 15 DEGREES MAXIMUM EACH FACE UNLESS OTHERWISE NOTED OR SPECIFICALLY APPROVED.
13. ALL DUCTWORK IS CONCEALED UNLESS OTHERWISE NOTED.
14. LABEL ALL PIECES OF EQUIPMENT WITH MARK MATCHING SCHEDULE OR EQUIPMENT LIST WITH ENGRAVED PLASTIC LABELS WITH MINIMUM 1/4" HIGH LETTERS. LABELS EXPOSED TO WEATHER SHALL BE ENGRAVED BRASS.
15. PRIME AND PAINT ALL EXPOSED DUCTWORK PER ARCHITECTURAL SPECIFICATIONS. PAINT SHALL NOT EXCEED THE FOLLOWING VOLATILE ORGANIC COMPOUND CONTENT LIMITS: FLATS < 50 GRAMS PER LITER, NON-FLATS < 100 GRAMS PER LITER.
16. ALL DUCTS, REGISTERS, EQUIPMENT, ETC. SHOWN IS NEW UNLESS OTHERWISE NOTED.
17. THE HEATING, VENTILATION AND AIR CONDITIONING SYSTEM(S) FOR THE BUILDING(S) WERE DESIGNED IN COMPLIANCE WITH THE LATEST EDITIONS OF THE CALIFORNIA CODES, STANDARDS AND REGULATIONS INCLUDING BUT NOT LIMITED TO CALIFORNIA MECHANICAL CODE (CMC), CALIFORNIA ENERGY CODE (CEC – TITLE 24, PART 6), AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS (ASHRAE) AND SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA).

   THE INDOOR AND OUTDOOR DESIGN CONDITIONS ARE THOSE ESTABLISHED FOR SAN JOSE BY THE CALIFORNIA ENERGY CODE AS FOLLOWS:
   1. OUTDOOR CONDITIONS
      SUMMER: 86°F DB/68°F WB
      WINTER: 29°F DB
   2. INDOOR CONDITIONS
      SUMMER: 74°F DB ±2°F
      WINTER: 70°F DB ±2°F

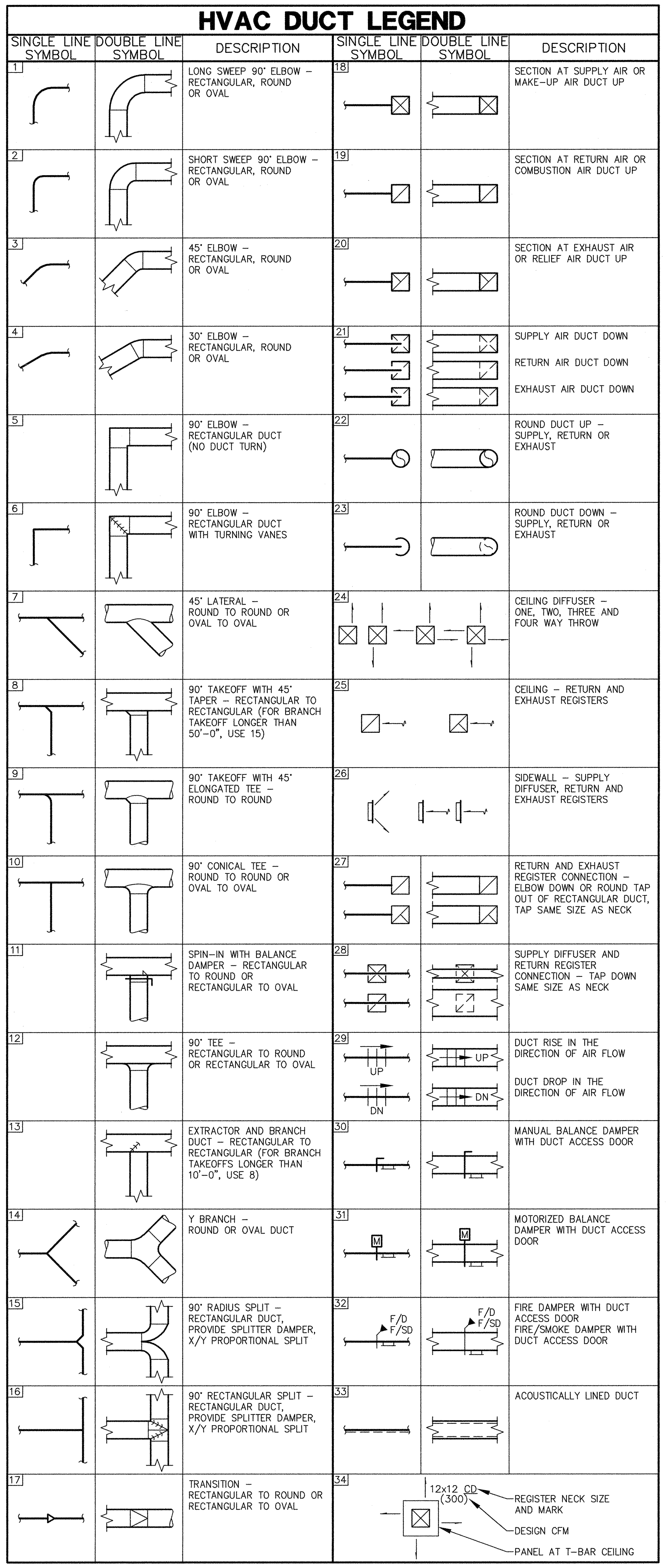
   IF THE OUTDOOR TEMPERATURES ARE HIGHER OR LOWER THAN DESIGN TEMPERATURES ESTABLISHED BY THE CALIFORNIA ENERGY CODE, THERE IS THE POTENTIAL THAT THE INSTALLED HVAC SYSTEM WILL NOT BE ABLE TO MAINTAIN THE DESIRED INDOOR TEMPERATURE. THE INCREASE OR DECREASE OF INDOOR TEMPERATURE COULD BE AS HIGH AS THE DIFFERENCE BETWEEN THE ACTUAL OUTDOOR TEMPERATURE AND THE DESIGN CONDITION.
18. ADHESIVES, SEALANTS AND CAULKS USED INDOORS SHALL NOT EXCEED THE FOLLOWING VOLATILE ORGANIC COMPOUND LIMITS PER TITLE 24, PART 11, SECTION 5.504.
    - METAL TO METAL < 30 GRAMS PER LITER
    - FIBERGLASS < 80 GRAMS PER LITER
    - CONTACT ADHESIVE < 80 GRAMS PER LITER
    - MASTICS < 100 GRAMS PER LITER
    - ZINC-RICH PRIMERS < 340 GRAMS PER LITER
    - FIRE RESISTANT COATINGS < 350 GRAMS PER LITER
19. HVAC EQUIPMENT SHALL NOT CONTAIN CFC'S OR HALONS PER TITLE 24, PART 11, SECTION 5.508.
20. AT THE TIME OF ROUGH INSTALLATION, OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING AND COOLING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENTS OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC OR SHEET METAL TO PROTECT THE AIR DISTRIBUTION SYSTEM FROM CONTAMINATION WITH DUST AND DEBRIS.
21. ALL DUCT MOUNTED SMOKE DETECTORS SHALL BE ADDRESSABLE TYPE AND COMPATIBLE WITH FIRE ALARM SYSTEM. DUCT SMOKE DETECTORS SHALL BE PROVIDED, INSTALLED AND WIRED BY FIRE ALARM CONTRACTOR. ENTIRE SYSTEM SHALL COMPLY WITH THE CALIFORNIA MECHANICAL CODE, THE CALIFORNIA FIRE CODE, AND THE NATIONAL FIRE PROTECTION ASSOCIATION.

LIST OF GOVERNING CODES:

2016 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24, C.C.R.
2016 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, C.C.R.
2016 CALIFORNIA ELECTRICAL CODE, PART 3, TITLE 24, C.C.R.
2016 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, C.C.R.
2016 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, C.C.R.
2016 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24, C.C.R.
2016 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, C.C.R.
2016 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24, C.C.R.
2016 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, C.C.R.
TITLE 19, C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

ALL SECTION NUMBERS BELOW REFER TO GROUP 1, CHAPTER 4, PART 1, TITLE 24, C.C.R.
1. ADDENDA, CONSTRUCTION CHANGES PER SECTION 4-338.
2. INSPECTOR APPROVED BY DSA. INSPECTOR AND CONTINUOUS INSPECTION OF WORK PER SECTION 4-333(b) AND 4-342.
3. TESTS AND TESTING LABORATORY PER SECT. 4-335.
4. SPECIAL INSPECTION PER SECT. 4-333(d).
5. CONTRACTOR SHALL SUBMIT VERIFIED REPORTS PER SECT. 4-336 AND 4-343(c).
6. ADMINISTRATION OF CONSTRUCTION PER PART 1, TITLE 24, C.C.R. – DUTIES OF ARCHITECT, STRUCTURAL ENGINEER OR PROFESSIONAL ENGINEER PER SECT. 4-333(a) AND 4-341.
7. GOVERNING CODES: TITLE 24.
8. A COPY OF PARTS 1, 2, 3, 4, AND 5 OF TITLE 24 SHALL BE KEPT AVAILABLE IN THE FIELD DURING CONSTRUCTION.
9. DSA SHALL BE NOTIFIED OF START OF CONSTRUCTION PER SECT. 4-331.
10. SUPERVISION BY THE OFFICE OF REGULATION SERVICE PER SECT. 4-334.

HVAC DUCT LEGEND



SINGLE LINE SYMBOL	DOUBLE LINE SYMBOL	DESCRIPTION	SINGLE LINE SYMBOL	DOUBLE LINE SYMBOL	DESCRIPTION
1		LONG SWEEP 90° ELBOW – RECTANGULAR, ROUND OR OVAL	18		SECTION AT SUPPLY AIR OR MAKE-UP AIR DUCT UP
2		SHORT SWEEP 90° ELBOW – RECTANGULAR, ROUND OR OVAL	19		SECTION AT RETURN AIR OR COMBUSTION AIR DUCT UP
3		45° ELBOW – RECTANGULAR, ROUND OR OVAL	20		SECTION AT EXHAUST AIR OR RELIEF AIR DUCT UP
4		30° ELBOW – RECTANGULAR, ROUND OR OVAL	21		SUPPLY AIR DUCT DOWN RETURN AIR DUCT DOWN EXHAUST AIR DUCT DOWN
5		90° ELBOW – RECTANGULAR DUCT (NO DUCT TURN)	22		ROUND DUCT UP – SUPPLY, RETURN OR EXHAUST
6		90° ELBOW – RECTANGULAR DUCT WITH TURNING VANES	23		ROUND DUCT DOWN – SUPPLY, RETURN OR EXHAUST
7		45° LATERAL – ROUND TO ROUND OR OVAL TO OVAL	24		CEILING DIFFUSER – ONE, TWO, THREE AND FOUR WAY THROW
8		90° TAKEOFF WITH 45° TAPER – RECTANGULAR TO RECTANGULAR (FOR BRANCH TAKEOFF LONGER THAN 50'-0", USE 15)	25		CEILING – RETURN AND EXHAUST REGISTERS
9		90° TAKEOFF WITH 45° ELONGATED TEE – ROUND TO ROUND	26		SIDEWALL – SUPPLY DIFFUSER, RETURN AND EXHAUST REGISTERS
10		90° CONICAL TEE – ROUND TO ROUND OR OVAL TO OVAL	27		RETURN AND EXHAUST REGISTER CONNECTION – ELBOW DOWN OR ROUND TAP OUT OF RECTANGULAR DUCT, TAP SAME SIZE AS NECK
11		SPIN-IN WITH BALANCE DAMPER – RECTANGULAR TO ROUND OR RECTANGULAR TO OVAL	28		SUPPLY DIFFUSER AND RETURN REGISTER CONNECTION – TAP DOWN SAME SIZE AS NECK
12		90° TEE – RECTANGULAR TO ROUND OR RECTANGULAR TO OVAL	29		DUCT RISE IN THE DIRECTION OF AIR FLOW DUCT DROP IN THE DIRECTION OF AIR FLOW
13		EXTRACTOR AND BRANCH DUCT – RECTANGULAR TO RECTANGULAR (FOR BRANCH TAKEOFFS LONGER THAN 10'-0", USE 8)	30		MANUAL BALANCE DAMPER WITH DUCT ACCESS DOOR
14		Y BRANCH – ROUND OR OVAL DUCT	31		MOTORIZED BALANCE DAMPER WITH DUCT ACCESS DOOR
15		90° RADIUS SPLIT – RECTANGULAR DUCT, PROVIDE SPLITTER DAMPER, X/Y PROPORTIONAL SPLIT	32		FIRE DAMPER WITH DUCT ACCESS DOOR FIRE/SMOKE DAMPER WITH DUCT ACCESS DOOR
16		90° RECTANGULAR SPLIT – RECTANGULAR DUCT, PROVIDE SPLITTER DAMPER, X/Y PROPORTIONAL SPLIT	33		ACOUSTICALLY LINED DUCT
17		TRANSITION – RECTANGULAR TO ROUND OR RECTANGULAR TO OVAL	34		

HVAC LEGEND

SYMBOL	ABBRV.	IDENTIFICATION	ABBRV.	IDENTIFICATION
///////////		REMOVE EXISTING	FT	FEET
—//—//—//—		ABANDON IN PLACE	FTR	FLUE THRU ROOF
———		AIR DUCT	GPM	GALLONS PER MINUTE
〰〰〰		FLEXIBLE AIR DUCT	GA	GAUGE
——F——	BD	BALANCING DAMPER	HP	HORSEPOWER
▬ ▪ ▪ ▬		RATED WALL, SEE ARCHITECTS DRAWINGS	HR	HOUR
→		AIR FROM DEVICE	HTG	HEATING
→		AIR TO DEVICE	HZ	HERTZ
⊠		SECTION THROUGH SUPPLY	IN	INCH
▱		SECTION THROUGH RETURN	KW	KILOWATTS
⊠		SECTION THROUGH EXHAUST	LAT	LEAVING AIR TEMPERATURE
Ⓣ		THERMOSTAT AT 48" AFF	LBS	POUNDS
©		CO2 SENSOR	LRA	LOCKED ROTOR AMPS
——◀ F/SD	F/SD	VERTICAL FIRE/SMOKE DAMPER	LVG	LEAVING
——◆ F/SD	F/SD	HORIZONTAL FIRE/SMOKE DAMPER	LWB	LEAVING WET BULB
$	SW	SWITCH AT 48" AFF	MAX	MAXIMUM
℄		CENTERLINE	MBH	1000 BTU PER HOUR
◐	P.O.C.	POINT OF CONNECTION	MCA	MINIMUM CIRCUIT AMPS
	&	AND	MECH	MECHANICAL
	@	AT	MFR	MANUFACTURER
	°F	DEGREES FAHRENHEIT	MIN	MINIMUM
	AC	AIR CONDITIONER	MOCP	MAXIMUM OVERCURRENT PROTECTION
	AC/H	AIR CHANGES PER HOUR	(N)	NEW
	AFF	ABOVE FINISH FLOOR	NIC	NOT IN CONTRACT
	AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	NTS	NOT TO SCALE
	AL	ACOUSTICALLY LINED	OA	OUTSIDE AIR
	AMB	AMBIENT	OC	ON CENTER
	AMP	AMPERE	PD	PRESSURE DROP
	APPROX	APPROXIMATE	PH	PHASE
	ARCH	ARCHITECT/ARCHITECTURAL	P/N	PART NUMBER
	BHP	BRAKE HORSEPOWER	PRESS	PRESSURE
	BLDG	BUILDING	PSI	POUNDS PER SQUARE INCH
	BTUH	BRITISH THERMAL UNITS PER HOUR	P/T	PRESSURE/TEMPERATURE
	CA	COMBUSTION AIR	QTY	QUANTITY
	CFM	CUBIC FEET PER MINUTE	RA	RETURN AIR
	CIRC	CIRCULATING	REQD	REQUIRED
	CLG	CEILING	REQS	REQUIREMENTS
	CONN	CONNECTION	RLA	RATED/RUNNING LOAD AMPS
	CONT	CONTINUED, CONTINUATION	RM	ROOM
	COOL	COOLING	RPM	REVOLUTIONS PER MINUTE
	COORD	COORDINATE	RRL	RECIRCULATED REFRIGERATION LIQUID
	COP	COEFFICIENT OF PERFORMANCE	RRS	RECIRCULATED REFRIGERATION SUCTION
	DB	DRY BULB	SA	SUPPLY AIR
	DN	DOWN	SC	SENSIBLE COOLING
	DWGS	DRAWINGS	SEER	SEASONAL ENERGY EFFICIENCY RATIO
	(E)	EXISTING	SP	STATIC PRESSURE
	EA	EXHAUST AIR	SPEC	SPECIFICATION
	EAT	ENTERING AIR TEMPERATURE	SQ	SQUARE
	EER	ENERGY EFFICIENCY RATIO	STD	STANDARD
	ELEC	ELECTRICAL	STRUCT	STRUCTURAL
	ELEV	ELEVATION	STSL	STAINLESS STEEL
	ENT	ENTERING	TEMP	TEMPERATURE
	EQUIP	EQUIPMENT	TSP	TOTAL STATIC PRESSURE
	ESP	EXTERNAL STATIC PRESSURE	TV	TURNING VANES
	EWB	ENTERING WET BULB	TYP	TYPICAL
	EXP	EXPANSION	UCD	UNDERCUT DOOR
	EXT	EXTERIOR	UL	UNDERWRITER'S LABORATORIES
	FFE	FINISHED FLOOR ELEVATION	UON	UNLESS OTHERWISE NOTED
	FLA	FULL LOAD AMPS	V	VOLT
	FLEX	FLEXIBLE	W/	WITH
	FLR	FLOOR	WB	WET BULB
	FPM	FEET PER MINUTE	WC	WATER COLUMN
			WT	WEIGHT

DSA GENERAL NOTES

1. THE INTENT OF THE CONTRACT DOCUMENTS IS TO MODERNIZE AN EXISTING BUILDING. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS, A CONSTRUCTION CHANGE DOCUMENT DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.
2. LATERAL SUPPORT FOR PIPE AND DUCTS TO COMPLY WITH SMACNA "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING SYSTEMS".
3. THE SEISMIC SUPPORT AND ANCHORAGE OF THE EQUIPMENT DESCRIBED ON THESE DRAWINGS HAVE BEEN ENGINEERED BY THE ENGINEER OF RECORD FOR CONFORMANCE WITH APPROPRIATE BUILDING CODES. THE ENGINEER OF RECORD WAS NOT RESPONSIBLE FOR THE EQUIPMENT DESIGN.
4. ALL MECHANICAL AND PLUMBING EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE CRITERIA FROM CHAPTER 16A CALIFORNIA BUILDING CODE (CBC) 2016.
5. WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER AND THE FIELD REPRESENTATIVE OF THE DIVISION OF THE STATE ARCHITECT.

COMPONENT ANCHORAGE NOTES

ALL MECHANICAL AND PLUMBING COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTERS 13, 26, AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (EG HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICAL, GAS, OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING MECHANICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

1. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4'-0" OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORTS THE EQUIPMENT.
2. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING AND DUCTWORK DISTRIBUTION SYSTEM BRACING NOTES

PIPING AND DUCTWORK DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6., 13.6.8, 13.6.7, AND 2016 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25, AND 1616A.1.26.

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPA #) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318-14, CHAPTER 17.

COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPING AND DUCTWORK DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

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LEGEND, SCHEDULES AND NOTES - MECHANICAL

RUSSO-McENTEE ACADEMY- HVAC UPGRADES
2851 GAY AVE., SAN JOSE, CA 95127
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE
	DD SUBMITTAL	12-8-17
	DSA SUBMITTAL	01-31-18
	BID SET	04-09-18

DSA FILE NUMBER 43-04

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL 01-117267
AC ZG FLS MS SS [illegible]
DATE MAY 2 2 2018

DRAWN BY: CADD
CHECKED BY: MS
JOB NO: 17102
DATE: 04/09/2018

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May 14, 2018 9:28:19 a.m.
Drawing: H:\PROJ2017\20170293\DRAWINGS\LNA-FILS\HVA-M01.DWG
Xrefs: MAS-BORD.DWG,

GAS FIRED EQUIPMENT

MARK	HEAT MBH		CFM			FAN RPM	MOTOR		WT LBS	AFUE	MAKE & MODEL	REMARKS
	IN	OUT	TOTAL	ESP	OA		HP	V/PH				
F-1-1	250	200	3000	0.8"	800	MEDIUM	(2) 1	208/3	380	80%	REZNOR CAUA 250	① ②
F-1-2	250	200	3000	0.8"	800	MEDIUM	(2) 1	208/3	380	80%	REZNOR CAUA 250	① ②

① WITH TWO STAGE GAS VALVE, VERTICAL CONCENTRIC COMBUSTION AIR KIT, AND DIRECT DRIVE BLOWER MOTORS.

② FOR MOUNTING SEE 13/M6.1

CONDENSING UNITS AND COOLING COILS

MARK	COOL MBH		MCA	FAN RPM	FAN HP	V/PH	COMP. RLA	FAN FLA	WT LBS	EER SEER	LINE SIZE		MAKE & MODEL	REMARKS
	TC	SC									GAS	LIQ		
CU-1-1	90.7	65.9	42.6	–	0.5	208/3	32.9	8	465	13.0	7/8"	1/2"	REZNOR MASA 090	① ② ③
CC-1-1			–	–	–	–	–	–	110	–	7/8"	(2) 3/8"	REZNOR ACUB 090	①
CU-1-2	90.7	65.9	42.6	–	0.5	208/3	32.9	8	465	13.0	7/8"	1/2"	REZNOR MASA 090	① ② ③
CC-1-2			–	–	–	–	–	–	110	–	7/8"	(2) 3/8"	REZNOR ACUB 090	①

① COOLING CAPACITIES ARE AT 95° FAHRENHEIT AMBIENT, 80° FAHRENHEIT DRY BULB/67° FAHRENHEIT WET BULB ENTERING AIR TEMPERATURE.

② WITH ANTI-SHORT CYCLE TIMER AND CONDENSER COIL GUARD.

③ FOR MOUNTING, SEE 9/M6.1

ROOF HOODS

MARK	CFM	THROAT AREA SF	THROAT VELOCITY	THROAT SIZE	HOOD SIZE	CURB CAP SIZE	WT LBS	MAKE & MODEL	REMARKS
IH-1	800	1.45	552 FPM	16"ø	29"ø	26" x 26"	40	GREENHECK GRSI 16	① ②
IH-2	400	0.82	488 FPM	12"ø	29"ø	22" x 22"	30	GREENHECK GRSI 12	① ②
IH-3	900	1.83	432 FPM	18"ø	36"ø	30" x 30"	45	GREENHECK GRSI 18	① ②
IH-4	170	0.37	459 FPM	8"ø	20"ø	19" x 19"	25	GREENHECK GRSI 8	① ②
RH-1-1	3000	6.25	480 FPM	30" x 30"	40" x 48"	36" x 36"	105	GREENHECK FGR 30X30	② ③

① WITH GREENHECK GPIP ROOF CURB AND CURB SEAL, ALL ALUMINUM CONSTRUCTION, AND BIRD SCREEN.

② FOR MOUNTING, SEE 7/M6.1

③ WITH GREENHECK GPIP ROOF CURB, CURB SEAL, BIRD SCREEN, AND GRAVITY OPERATED DAMPER.

AIR DISTRIBUTION

MARK	TYPE	MAKE & MODEL	REMARKS
HSS-1	HIGH SIDEWALL SUPPLY	TITUS 300RL	① ②
HSR-1	HIGH SIDEWALL RETURN	TITUS 350RS	① ③
HSE-1	HIGH SIDEWALL EXHAUST	TITUS 8R	① ④
CD-1	CEILING DIFFUSER	TITUS MCD	⑤ ⑥
RG-1	RETURN GRILLE	TITUS 8R	① ⑦
DL-1	DOOR LOUVER	TITUS T-700L	⑧

① WITH BORDER TYPE 1 SURFACE MOUNT.

② FOR MOUNTING, SEE 11/M6.1

③ FOR MOUNTING, SEE 14/M6.1

④ FOR MOUNTING, SEE 8/M6.1

⑤ WITH BORDER TYPE 3 (LAY-IN).

⑥ FOR MOUNTING, SEE 16/M6.1

⑦ FOR MOUNTING, SEE 3/M6.2

⑧ WITH BORDER TYPE 1 SURFACE MOUNT AND AUXILIARY FRAME.

VRF OUTDOOR HEAT PUMPS

MARK	COOL MBH	HEAT MBH	MOCP	V/PH	MCA	WT LBS	EER IEER	LINE SIZE		MAKE & MODEL	REMARKS
								GAS	LIQ		
HP-2-1	168	188	110	208/3	68	702	11.2 19.6	1 1/8"	7/8"	MITSUBISHI PURY-P168TLMU-A	① ③ ④
HP-A-1	240	270	60 60	208/3	42 42	1390	12.9 22.3	1 3/8"	1 1/8"	MITSUBISHI PURY-P240TSLMU-A	② ③ ④
HP-B-1	216	243	60 50	208/3	42 33	1198	12.4 22.9	1 1/8"	1 1/8"	MITSUBISHI PURY-P216TSLMU-A	① ③ ④
HP-C-1	216	243	60 50	208/3	42 33	1198	12.4 22.9	1 1/8"	1 1/8"	MITSUBISHI PURY-P216TSLMU-A	① ③ ④
HP-D-1	216	243	60 50	208/3	42 33	1198	12.4 22.9	1 1/8"	1 1/8"	MITSUBISHI PURY-P216TSLMU-A	① ③ ④

① WITH MITSUBISHI CMB-P1010NU-HA1 MAIN BRANCH CIRCUIT (BC) CONTROLLER, 208V/1PH, 1.60 MCA. WEIGHT = 131 LBS. SEE FLOOR PLANS FOR LOCATION. PROVIDE WITH BLUE DIAMOND CONDENSATE PUMP.

② WITH MITSUBISHI CMB-P1013NU-GA1 MAIN BRANCH CIRCUIT (BC) CONTROLLER, 208V/1PH, 1.08 MCA. WEIGHT = 148 LBS. SEE FLOOR PLANS FOR LOCATION. PROVIDE WITH BLUE DIAMOND CONDENSATE PUMP.

③ CONTRACTOR SHALL PROVIDE SHOP DRAWINGS SHOWING UNIT LOCATIONS, REFRIGERANT PIPE ROUTING, REFRIGERANT CIRCUIT DIAGRAMS, REFRIGERANT PIPE SIZES, VALVE LOCATIONS, ACCESS PANELS, AND SUPPORT DETAILS. SYSTEM SHALL BE DESIGNED BY MITSUBISHI DIAMOND DESIGNER AND INSTALLED BY A CONTRACTOR THAT HAS SUCCESSFULLY COMPLETED THE MITSUBISHI ELECTRIC THREE DAY COURSE.

④ FOR MOUNTING, SEE 2/M6.1

EXHAUST FANS

MARK	CFM	ESP	SONES	MOTOR		FAN RPM	WT LBS	MAKE & MODEL	REMARKS
				HP	V/PH				
EF-2-1	200	0.25"	5.0	1/10	115/1	1641	42	GREENHECK G-065-VG	① ③ ⑤
EF-2-2	200	0.25"	5.0	1/10	115/1	1641	42	GREENHECK G-065-VG	① ③ ⑤
EF-2-3	55	0.25"	0.7	13 WATTS	115/1	950	15	GREENHECK SP-A70	② ③ ④
EF-2-4	100	0.25"	0.6	18 WATTS	115/1	850	20	GREENHECK SP-A110	② ③ ④
EF-A-1	200	0.25"	5.0	1/10	115/1	1641	42	GREENHECK G-065-VG	① ③ ⑤
EF-A-2	200	0.25"	5.0	1/10	115/1	1641	42	GREENHECK G-065-VG	① ③ ⑤
EF-B-1	450	0.25"	5.2	1/10	115/1	1260	47	GREENHECK G-090-VG	① ③ ⑤
EF-B-2	450	0.25"	5.2	1/10	115/1	1260	47	GREENHECK G-090-VG	① ③ ⑤
EF-D-1	450	0.25"	5.2	1/10	115/1	1260	47	GREENHECK G-090-VG	① ③ ⑤
EF-D-2	450	0.25"	5.2	1/10	115/1	1260	47	GREENHECK G-090-VG	① ③ ⑤

① WITH UL705 LISTING, NEMA-3R DISCONNECT SWITCH, GRAVITY OPERATED BACKDRAFT DAMPER, 14" TALL GREENHECK GPIP CURB, AND CURB SEAL.

② WITH UL507 LISTING, UNIT MOUNTED SPEED CONTROL, AND ISOLATION KIT.

③ SWITCH WITH LIGHTS.

④ FOR MOUNTING, SEE 6/M6.1

⑤ FOR MOUNTING, SEE 7/M6.1

SUPPLY FANS

MARK	CFM	ESP	SONES	MOTOR		FAN RPM	WT LBS	MAKE & MODEL	REMARKS
				WATTS	V/PH				
SF-2-1	450	0.25"	0.4	153	115/1	870	40	GREENHECK CSP-A710	① ②
SF-2-2	450	0.25"	0.4	153	115/1	870	40	GREENHECK CSP-A710	① ②
SF-2-3	170	0.25"	<0.3	40	115/1	803	25	GREENHECK CSP-A200	① ②
SF-A-1	400	0.25"	<0.3	126	115/1	823	40	GREENHECK CSP-A710	① ②
SF-A-2	400	0.25"	<0.3	126	115/1	823	40	GREENHECK CSP-A710	① ②
SF-A-3	400	0.25"	<0.3	126	115/1	823	40	GREENHECK CSP-A710	① ②
SF-A-4	400	0.25"	<0.3	126	115/1	823	40	GREENHECK CSP-A710	① ②
SF-A-5	400	0.25"	<0.3	126	115/1	823	40	GREENHECK CSP-A710	① ②
SF-B-1	400	0.25"	<0.3	126	115/1	823	40	GREENHECK CSP-A710	① ②
SF-B-2	400	0.25"	<0.3	126	115/1	823	40	GREENHECK CSP-A710	① ②
SF-B-3	400	0.25"	<0.3	126	115/1	823	40	GREENHECK CSP-A710	① ②
SF-B-4	400	0.25"	<0.3	126	115/1	823	40	GREENHECK CSP-A710	① ②
SF-B-5	400	0.25"	<0.3	126	115/1	823	40	GREENHECK CSP-A710	① ②
SF-C-1	400	0.25"	<0.3	126	115/1	823	40	GREENHECK CSP-A710	① ②
SF-C-2	400	0.25"	<0.3	126	115/1	823	40	GREENHECK CSP-A710	① ②
SF-C-3	400	0.25"	<0.3	126	115/1	823	40	GREENHECK CSP-A710	① ②
SF-C-4	400	0.25"	<0.3	126	115/1	823	40	GREENHECK CSP-A710	① ②
SF-C-5	400	0.25"	<0.3	126	115/1	823	40	GREENHECK CSP-A710	① ②
SF-D-1	400	0.25"	<0.3	126	115/1	823	40	GREENHECK CSP-A710	① ②
SF-D-2	400	0.25"	<0.3	126	115/1	823	40	GREENHECK CSP-A710	① ②
SF-D-3	400	0.25"	<0.3	126	115/1	823	40	GREENHECK CSP-A710	① ②
SF-D-4	400	0.25"	<0.3	126	115/1	823	40	GREENHECK CSP-A710	① ②
SF-D-5	400	0.25"	<0.3	126	115/1	823	40	GREENHECK CSP-A710	① ②

① WITH UL507 LISTING, UNIT MOUNTED SPEED CONTROL, BACKDRAFT DAMPER, AND ISOLATION KIT.

② FOR MOUNTING, SEE 5/M6.1

VRF INDOOR FAN COILS

MARK	CONNECTS TO	COOL MBH	HEAT MBH	CFM			MOCP	V/PH	MCA	WT LBS	LINE SIZE		MAKE & MODEL	REMARKS
				TOTAL	OSA	ESP					GAS	LIQ		
FC-2-1A	HP-2-1	30	34	812	225	–	15	208/1	0.57	66	5/8"	3/8"	MITSUBISHI PLFY-EP30NEMU-E	① ② ③ ④ ⑤ ⑦
FC-2-1B	HP-2-1	30	34	812	225	–	15	208/1	0.57	66	5/8"	3/8"	MITSUBISHI PLFY-EP30NEMU-E	① ② ③ ④ ⑤ ⑦
FC-2-2A	HP-2-1	30	34	812	225	–	15	208/1	0.57	66	5/8"	3/8"	MITSUBISHI PLFY-EP30NEMU-E	① ② ③ ④ ⑤ ⑦
FC-2-2B	HP-2-1	30	34	812	225	–	15	208/1	0.57	66	5/8"	3/8"	MITSUBISHI PLFY-EP30NEMU-E	① ② ③ ④ ⑤ ⑦
FC-2-3	HP-2-1	12	13	390	35	–	15	208/1	0.35	44	1/2"	1/4"	MITSUBISHI PLFY-P12NCMU-ER4	① ② ④ ⑤ ⑧
FC-2-4	HP-2-1	8	9	350	25	–	15	208/1	0.29	41	1/2"	1/4"	MITSUBISHI PLFY-P08NCMU-ER4	① ② ④ ⑤ ⑧
FC-2-5	HP-2-1	8	9	350	25	–	15	208/1	0.29	41	1/2"	1/4"	MITSUBISHI PLFY-P08NCMU-ER4	① ② ④ ⑤ ⑧
FC-2-6	HP-2-1	12	13	390	35	–	15	208/1	0.35	44	1/2"	1/4"	MITSUBISHI PLFY-P12NCMU-ER4	① ② ④ ⑤ ⑧
FC-2-7	HP-2-1	8	9	350	25	–	15	208/1	0.29	41	1/2"	1/4"	MITSUBISHI PLFY-P08NCMU-ER4	① ② ④ ⑤ ⑧
FC-2-8	HP-2-1	8	9	350	25	–	15	208/1	0.29	41	1/2"	1/4"	MITSUBISHI PLFY-P08NCMU-ER4	① ② ④ ⑤ ⑧
FC-A-1A	HP-A-1	24	27	812	200	–	15	208/1	0.54	66	5/8"	3/8"	MITSUBISHI PLFY-EP24NEMU-E	① ② ⑤ ⑥ ⑦
FC-A-1B	HP-A-1	24	27	812	200	–	15	208/1	0.54	66	5/8"	3/8"	MITSUBISHI PLFY-EP24NEMU-E	① ② ⑤ ⑥ ⑦
FC-A-2A	HP-A-1	24	27	812	200	–	15	208/1	0.54	66	5/8"	3/8"	MITSUBISHI PLFY-EP24NEMU-E	① ② ⑤ ⑥ ⑦
FC-A-2B	HP-A-1	24	27	812	200	–	15	208/1	0.54	66	5/8"	3/8"	MITSUBISHI PLFY-EP24NEMU-E	① ② ⑤ ⑥ ⑦
FC-A-3A	HP-A-1	24	27	812	200	–	15	208/1	0.54	66	5/8"	3/8"	MITSUBISHI PLFY-EP24NEMU-E	① ② ⑤ ⑥ ⑦
FC-A-3B	HP-A-1	24	27	812	200	–	15	208/1	0.54	66	5/8"	3/8"	MITSUBISHI PLFY-EP24NEMU-E	① ② ⑤ ⑥ ⑦
FC-A-4A	HP-A-1	24	27	812	200	–	15	208/1	0.54	66	5/8"	3/8"	MITSUBISHI PLFY-EP24NEMU-E	① ② ⑤ ⑥ ⑦
FC-A-4B	HP-A-1	24	27	812	200	–	15	208/1	0.54	66	5/8"	3/8"	MITSUBISHI PLFY-EP24NEMU-E	① ② ⑤ ⑥ ⑦
FC-A-5	HP-A-1	24	27	812	200	–	15	208/1	0.54	66	5/8"	3/8"	MITSUBISHI PLFY-EP24NEMU-E	① ② ⑤ ⑥ ⑦
FC-A-6	HP-A-1	15	17	390	100	–	15	208/1	0.35	44	1/2"	1/4"	MITSUBISHI PLFY-P15NCMU-ER4	① ② ④ ⑤ ⑧
FC-A-7	HP-A-1	15	17	390	100	–	15	208/1	0.35	44	1/2"	1/4"	MITSUBISHI PLFY-P15NCMU-ER4	① ② ④ ⑤ ⑧
FC-B-1A	HP-B-1	24	27	812	200	–	15	208/1	0.54	66	5/8"	3/8"	MITSUBISHI PLFY-EP24NEMU-E	① ② ⑤ ⑥ ⑦
FC-B-1B	HP-B-1	24	27	812	200	–	15	208/1	0.54	66	5/8"	3/8"	MITSUBISHI PLFY-EP24NEMU-E	① ② ⑤ ⑥ ⑦
FC-B-2A	HP-B-1	24	27	812	200	–	15	208/1	0.54	66	5/8"	3/8"	MITSUBISHI PLFY-EP24NEMU-E	① ② ⑤ ⑥ ⑦
FC-B-2B	HP-B-1	24	27	812	200	–	15	208/1	0.54	66	5/8"	3/8"	MITSUBISHI PLFY-EP24NEMU-E	① ② ⑤ ⑥ ⑦
FC-B-3A	HP-B-1	24	27	812	200	–	15	208/1	0.54	66	5/8"	3/8"	MITSUBISHI PLFY-EP24NEMU-E	① ② ⑤ ⑥ ⑦
FC-B-3B	HP-B-1	24	27	812	200	–	15	208/1	0.54	66	5/8"	3/8"	MITSUBISHI PLFY-EP24NEMU-E	① ② ⑤ ⑥ ⑦
FC-B-4A	HP-B-1	24	27	812	200	–	15	208/1	0.54	66	5/8"	3/8"	MITSUBISHI PLFY-EP24NEMU-E	① ② ⑤ ⑥ ⑦
FC-B-4B	HP-B-1	24	27	812	200	–	15	208/1	0.54	66	5/8"	3/8"	MITSUBISHI PLFY-EP24NEMU-E	① ② ⑤ ⑥ ⑦
FC-B-5A	HP-B-1	24	27	812	200	–	15	208/1	0.54	66	5/8"	3/8"	MITSUBISHI PLFY-EP24NEMU-E	① ② ⑤ ⑥ ⑦
FC-B-5B	HP-B-1	24	27	812	200	–	15	208/1	0.54	66	5/8"	3/8"	MITSUBISHI PLFY-EP24NEMU-E	① ② ⑤ ⑥ ⑦
FC-C-1A	HP-C-1	24	27	812	200	–	15	208/1	0.54	66	5/8"	3/8"	MITSUBISHI PLFY-EP24NEMU-E	① ② ⑤ ⑥ ⑦
FC-C-1B	HP-C-1	24	27	812	200	–	15	208/1	0.54	66	5/8"	3/8"	MITSUBISHI PLFY-EP24NEMU-E	① ② ⑤ ⑥ ⑦
FC-C-2A	HP-C-1	24	27	812	200	–	15	208/1	0.54	66	5/8"	3/8"	MITSUBISHI PLFY-EP24NEMU-E	① ② ⑤ ⑥ ⑦
FC-C-2B	HP-C-1	24	27	812	200	–	15	208/1	0.54	66	5/8"	3/8"	MITSUBISHI PLFY-EP24NEMU-E	① ② ⑤ ⑥ ⑦
FC-C-3A	HP-C-1	24	27	812	200	–	15	208/1	0.54	66	5/8"	3/8"	MITSUBISHI PLFY-EP24NEMU-E	① ② ⑤ ⑥ ⑦
FC-C-3B	HP-C-1	24	27	812	200	–	15	208/1	0.54	66	5/8"	3/8"	MITSUBISHI PLFY-EP24NEMU-E	① ② ⑤ ⑥ ⑦
FC-C- 4A	HP-C-1	24	27	812	200	–	15	208/1	0.54	66	5/8"	3/8"	MITSUBISHI PLFY-EP24NEMU-E	① ② ⑤ ⑥ ⑦
FC-C-4B	HP-C-1	24	27	812	200	–	15	208/1	0.54	66	5/8"	3/8"	MITSUBISHI PLFY-EP24NEMU-E	① ② ⑤ ⑥ ⑦
FC-C-5A	HP-C-1	24	27	812	200	–	15	208/1	0.54	66	5/8"	3/8"	MITSUBISHI PLFY-EP24NEMU-E	① ② ⑤ ⑥ ⑦
FC-C-5B	HP-C-1	24	27	812	200	–	15	208/1	0.54	66	5/8"	3/8"	MITSUBISHI PLFY-EP24NEMU-E	① ② ⑤ ⑥ ⑦
FC-D-1A	HP-D-1	24	27	812	200	–	15	208/1	0.54	66	5/8"	3/8"	MITSUBISHI PLFY-EP24NEMU-E	① ② ⑤ ⑥ ⑦
FC-D-1B	HP-D-1	24	27	812	200	–	15	208/1	0.54	66	5/8"	3/8"	MITSUBISHI PLFY-EP24NEMU-E	① ② ⑤ ⑥ ⑦
FC-D-2A	HP-D-1	24	27	812	200	–	15	208/1	0.54	66	5/8"	3/8"	MITSUBISHI PLFY-EP24NEMU-E	① ② ⑤ ⑥ ⑦
FC-D-2B	HP-D-1	24	27	812	200	–	15	208/1	0.54	66	5/8"	3/8"	MITSUBISHI PLFY-EP24NEMU-E	① ② ⑤ ⑥ ⑦
FC-D-3A	HP-D-1	24	27	812	200	–	15	208/1	0.54	66	5/8"	3/8"	MITSUBISHI PLFY-EP24NEMU-E	① ② ⑤ ⑥ ⑦
FC-D-3B	HP-D-1	24	27	812	200	–	15	208/1	0.54	66	5/8"	3/8"	MITSUBISHI PLFY-EP24NEMU-E	① ② ⑤ ⑥ ⑦
FC-D-4A	HP-D-1	24	27	812	200	–	15	208/1	0.54	66	5/8"	3/8"	MITSUBISHI PLFY-EP24NEMU-E	① ② ⑤ ⑥ ⑦
FC-D-4B	HP-D-1	24	27	812	200	–	15	208/1	0.54	66	5/8"	3/8"	MITSUBISHI PLFY-EP24NEMU-E	① ② ⑤ ⑥ ⑦
FC-D-5A	HP-D-1	24	27	812	200	–	15	208/1	0.54	66	5/8"	3/8"	MITSUBISHI PLFY-EP24NEMU-E	① ② ⑤ ⑥ ⑦
FC-D-5B	HP-D-1	24	27	812	200	–	15	208/1	0.54	66	5/8"	3/8"	MITSUBISHI PLFY-EP24NEMU-E	① ② ⑤ ⑥ ⑦

① NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COAL EAT OF 80/67°F (DB/WB), OUTDOOR OF 95°F (DB). NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB), OUTDOOR OF 43°F (WB).

② OUTSIDE AIR IS PROVIDED BY SUPPLY FAN, SEE FLOOR PLANS AND SUPPLY FANS SCHEDULE.

③ WITH MITSUBISHI PLFY-1TP1 TRIM PANEL FOR INSTALLATION IN 48" x 48" SUSPENDED T-BAR CEILING.

④ FOR MOUNTING, SEE 1/M6.1

⑤ CONTRACTOR SHALL PROVIDE SHOP DRAWINGS SHOWING UNIT LOCATIONS, REFRIGERANT PIPE ROUTING, REFRIGERANT CIRCUIT DIAGRAMS, REFRIGERANT PIPE SIZES, VALVE LOCATIONS, ACCESS PANELS, AND SUPPORT DETAILS. SYSTEM SHALL BE DESIGNED BY MITSUBISHI DIAMOND DESIGNER AND INSTALLED BY A CONTRACTOR THAT HAS SUCCESSFULLY COMPLETED THE MITSUBISHI ELECTRIC THREE DAY COURSE.

⑥ FOR MOUNTING, SEE 4/M6.2

⑦ PROVIDE MITSUBISHI PAC-SJ42TM-E MULTI-FUNCTION CASEMENT WITH MERV 13 FILTER.

⑧ PROVIDE 1" MERV 8 FILTER FOR CONTRACTOR INSTALL

SUGIMURA
FINNEY
ARCHITECTS
SFA
ARCHITECTURE INTERIORS PLANNING

2155 SOUTH BASCOM AVE.
SUITE 200
CAMPBELL, CA 95008
PHONE: 408-879-0600
FAX: 408-377-6066

REGISTERED PROFESSIONAL ENGINEER
No. M31059
EXP. JUNE 30, 2019
MECHANICAL
STATE OF CALIFORNIA

vc. (831) 649-8000
fx. (831) 649-8038
AXIOM ENGINEERS℠
LEE & ASSOCIATES
CONSULTING ENGINEERS
email: mail@axiomengineers.com
22 Lower Ragsdale Dr., Suite A
Monterey, California 93940-5788
AE Project # : 20170293

SCHEDULES - MECHANICAL

RUSSO-McENTEE ACADEMY- HVAC UPGRADES
2851 GAY AVE., SAN JOSE, CA 95127
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE
	DD SUBMITTAL	12-8-17
	DSA SUBMITTAL	01-31-18
	BID SET	04-09-18

DSA FILE NUMBER 43-04

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL 01-117267
AC KG FLS MS SS
DATE MAY 22 2018

DRAWN BY: CADD
CHECKED BY: MS
JOB NO: 17102
DATE: 04/09/2018

M0.2

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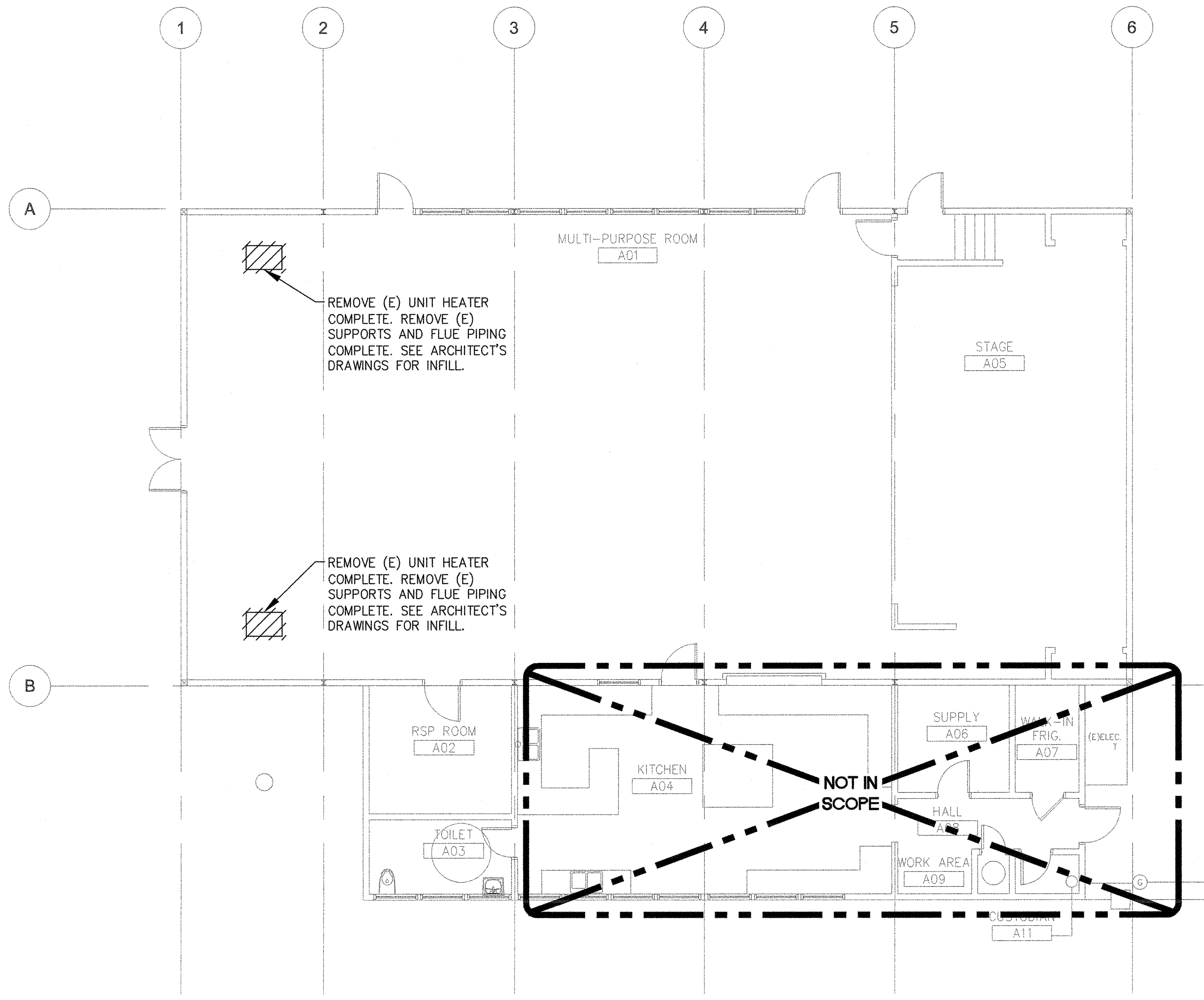
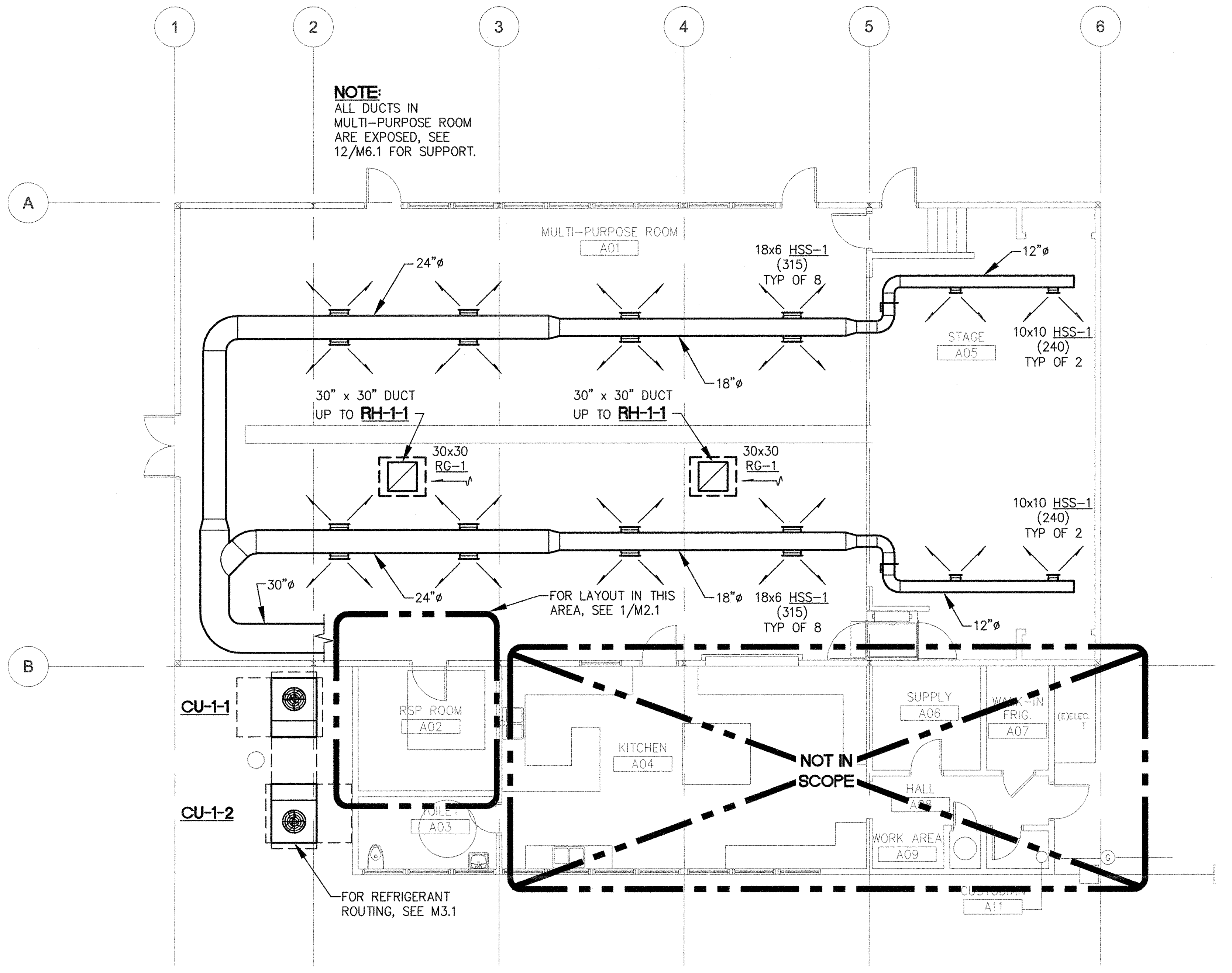

1
2
3
4
5
6
A
B
MULTI-PURPOSE ROOM
A01
REMOVE (E) UNIT HEATER COMPLETE. REMOVE (E) SUPPORTS AND FLUE PIPING COMPLETE. SEE ARCHITECT'S DRAWINGS FOR INFILL.
STAGE
A05
REMOVE (E) UNIT HEATER COMPLETE. REMOVE (E) SUPPORTS AND FLUE PIPING COMPLETE. SEE ARCHITECT'S DRAWINGS FOR INFILL.
RSP ROOM
A02
KITCHEN
A04
NOT IN SCOPE
SUPPLY
A06
WALK-IN FRIG.
A07
(E)ELEC.
TOILET
A03
HALL
WORK AREA
A09
A11

MULTI-PURPOSE AND KITCHEN WING A, BLDG 1 - MECHANICAL DEMOLITION

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

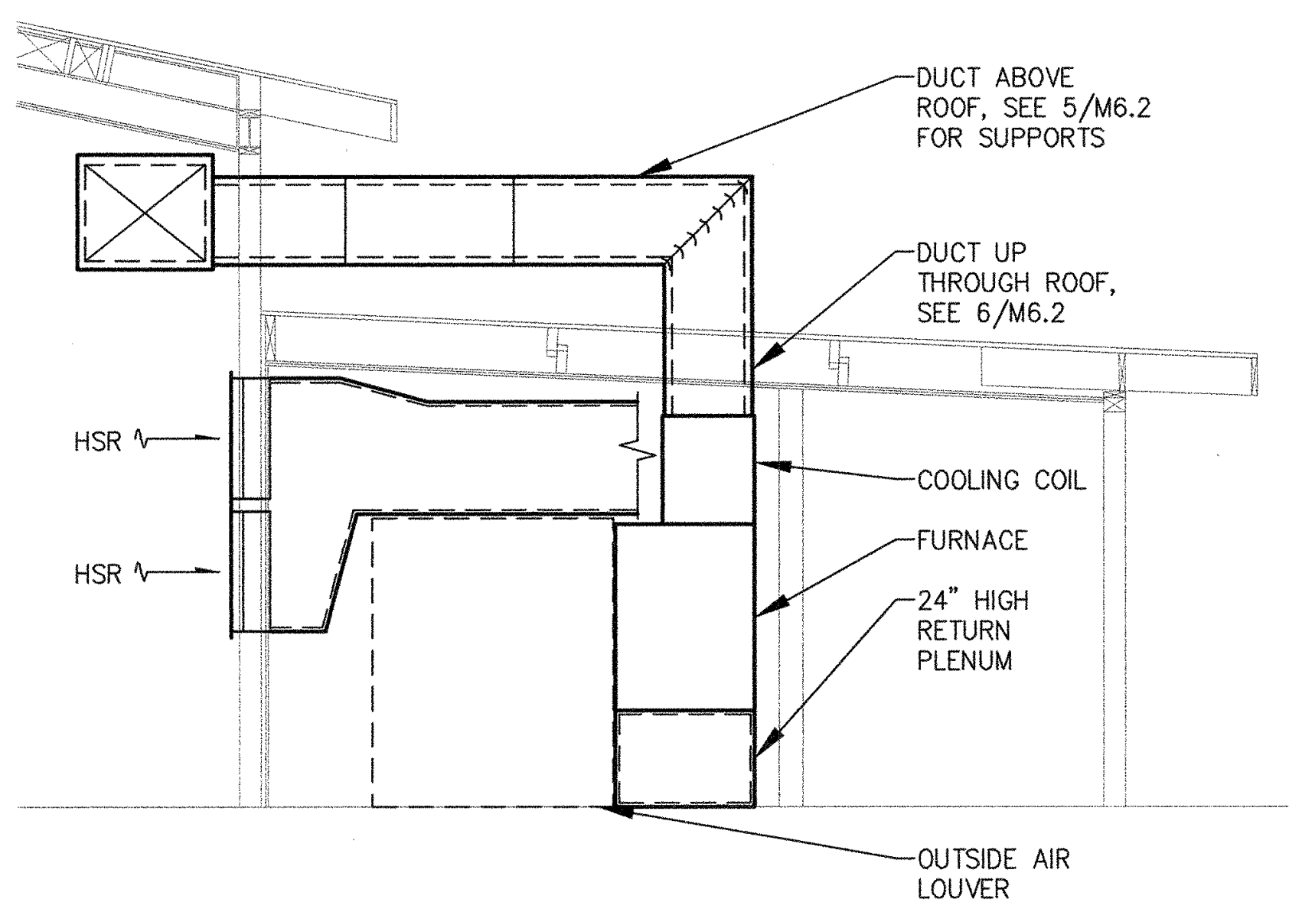
TRUE NORTH
REF NORTH



MULTI-PURPOSE AND KITCHEN WING A, BLDG 1 - MECHANICAL

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

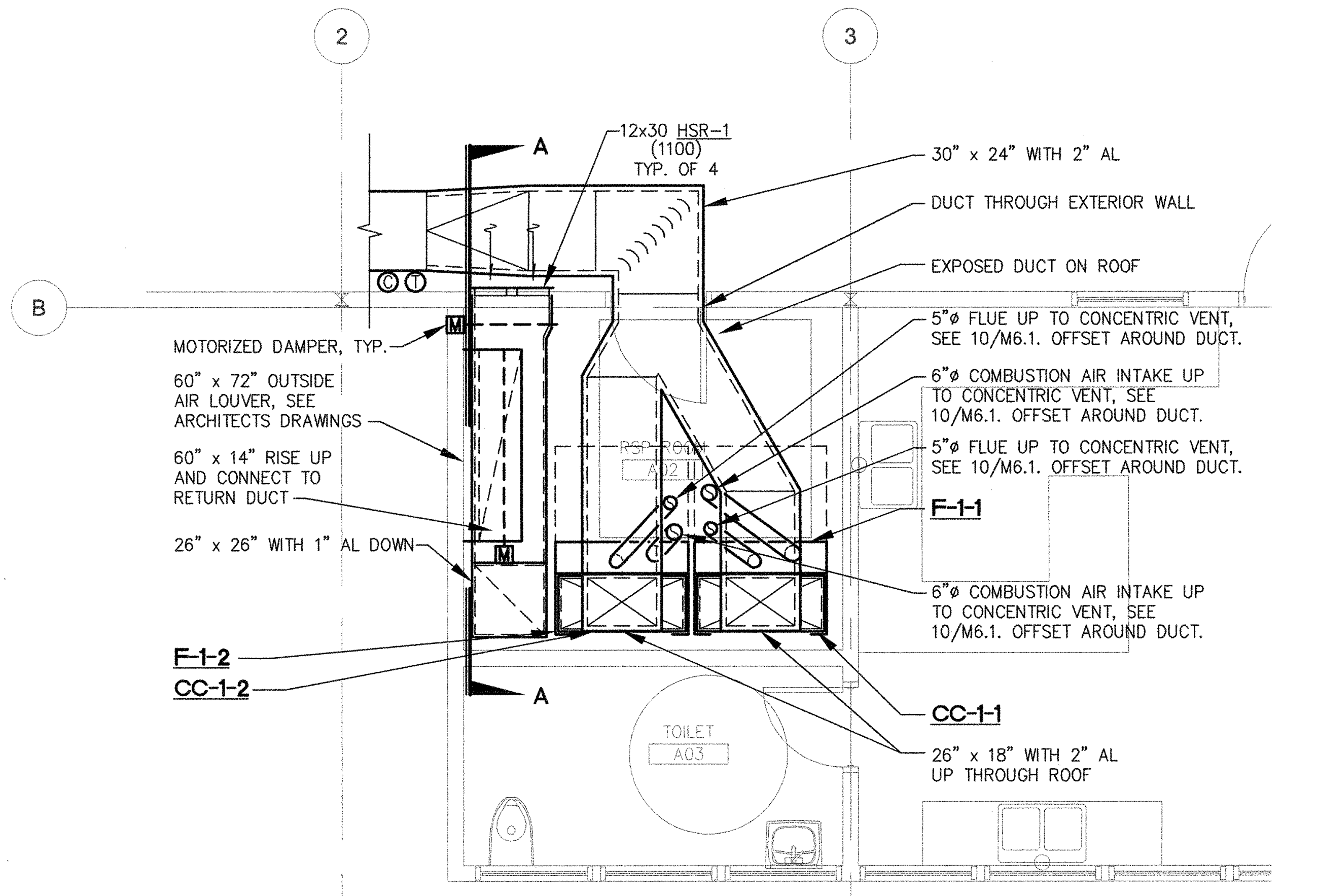
TRUE NORTH
REF NORTH


DUCT ABOVE ROOF, SEE 5/M6.2 FOR SUPPORTS
DUCT UP THROUGH ROOF, SEE 6/M6.2
HSR
HSR
COOLING COIL
FURNACE
24" HIGH RETURN PLENUM
OUTSIDE AIR LOUVER

A-A
M2.1

RSP ROOM SECTION - MECHANICAL

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


2
3
B
A
A
12x30 HSR-1
(1100)
TYP. OF 4
30" x 24" WITH 2" AL
DUCT THROUGH EXTERIOR WALL
EXPOSED DUCT ON ROOF
MOTORIZED DAMPER, TYP.
M
M
C
T
60" x 72" OUTSIDE AIR LOUVER, SEE ARCHITECTS DRAWINGS
60" x 14" RISE UP AND CONNECT TO RETURN DUCT
26" x 26" WITH 1" AL DOWN
5"ø FLUE UP TO CONCENTRIC VENT, SEE 10/M6.1. OFFSET AROUND DUCT.
6"ø COMBUSTION AIR INTAKE UP TO CONCENTRIC VENT, SEE 10/M6.1. OFFSET AROUND DUCT.
5"ø FLUE UP TO CONCENTRIC VENT, SEE 10/M6.1. OFFSET AROUND DUCT.
F-1-1
6"ø COMBUSTION AIR INTAKE UP TO CONCENTRIC VENT, SEE 10/M6.1. OFFSET AROUND DUCT.
RSP ROOM
A02
F-1-2
CC-1-2
CC-1-1
TOILET
A03
26" x 18" WITH 2" AL UP THROUGH ROOF

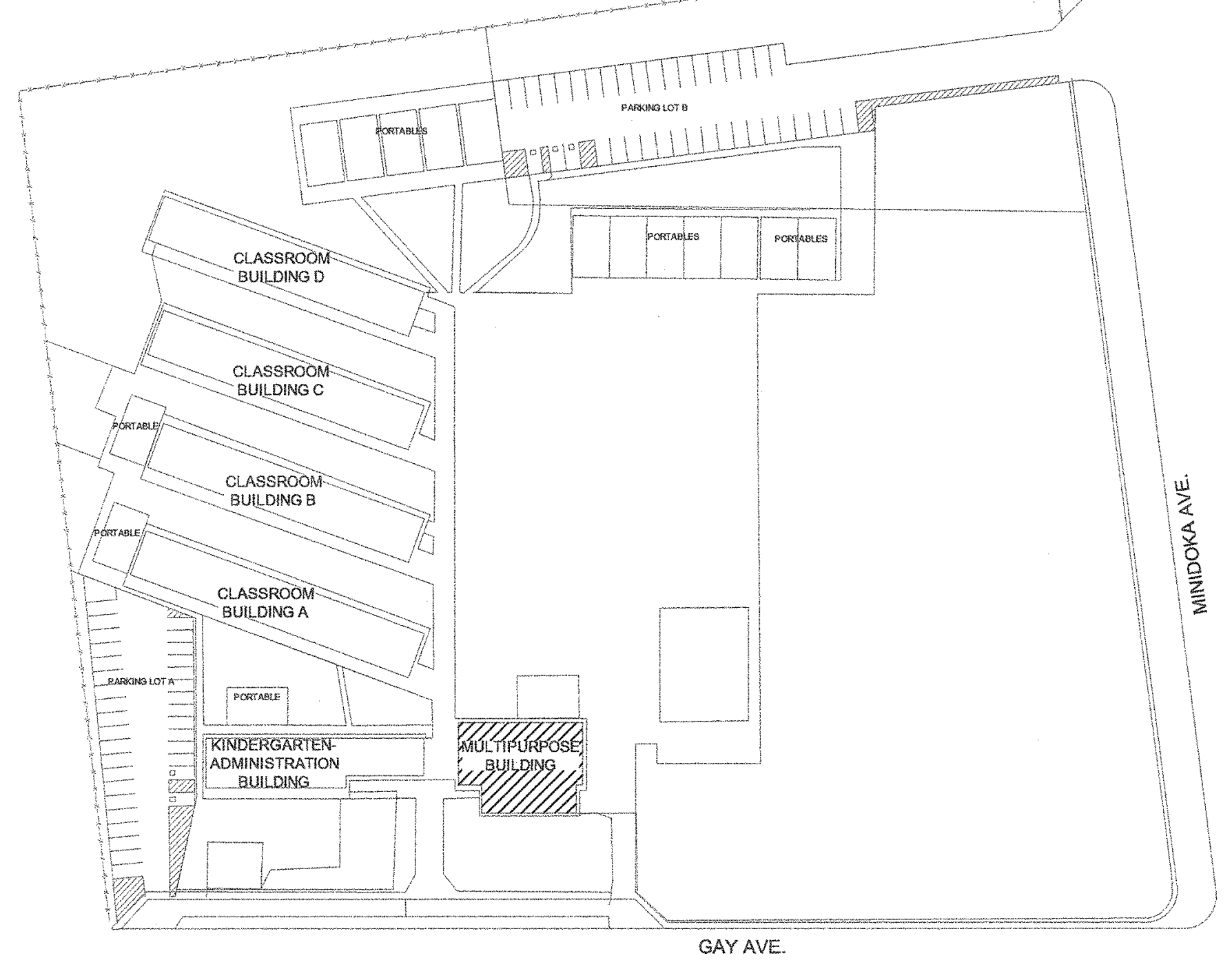
1
M2.1

RSP ROOM PLAN - MECHANICAL

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

TRUE NORTH
REF NORTH

BUILDING KEY



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AE Project # : 20170293

MULTI-PURPOSE AND KITCHEN WING A, BUILDING 1 -
FLOOR PLANS MECHANICAL

RUSSO-McENTEE ACADEMY- HVAC UPGRADES
2851 GAY AVE., SAN JOSE, CA 95127
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE
	DD SUBMITTAL	12-8-17
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	BID SET	04-09-18

DSA FILE NUMBER 43-04

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M2.1

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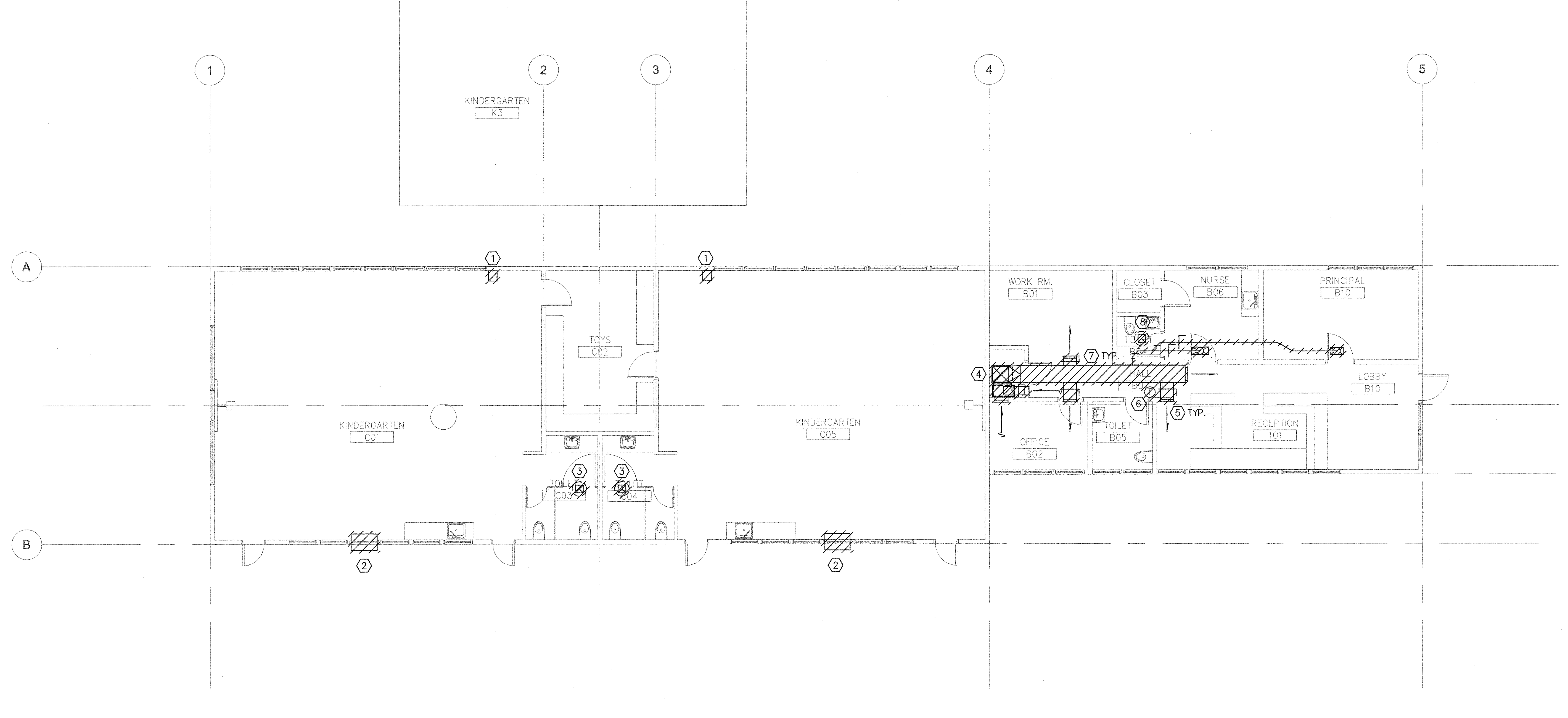
May 14, 2018 9:28:26 a.m.
Drawing: H:\PROJ2017\20170293\DRAWINGS\LNA-FILS\HVA-M21.DWG
Xrefs: DTMP-M21.DWG, HVAMP-MAIN.DWG, MASMP-BKG.DWG, MAS-BORD.DWG,

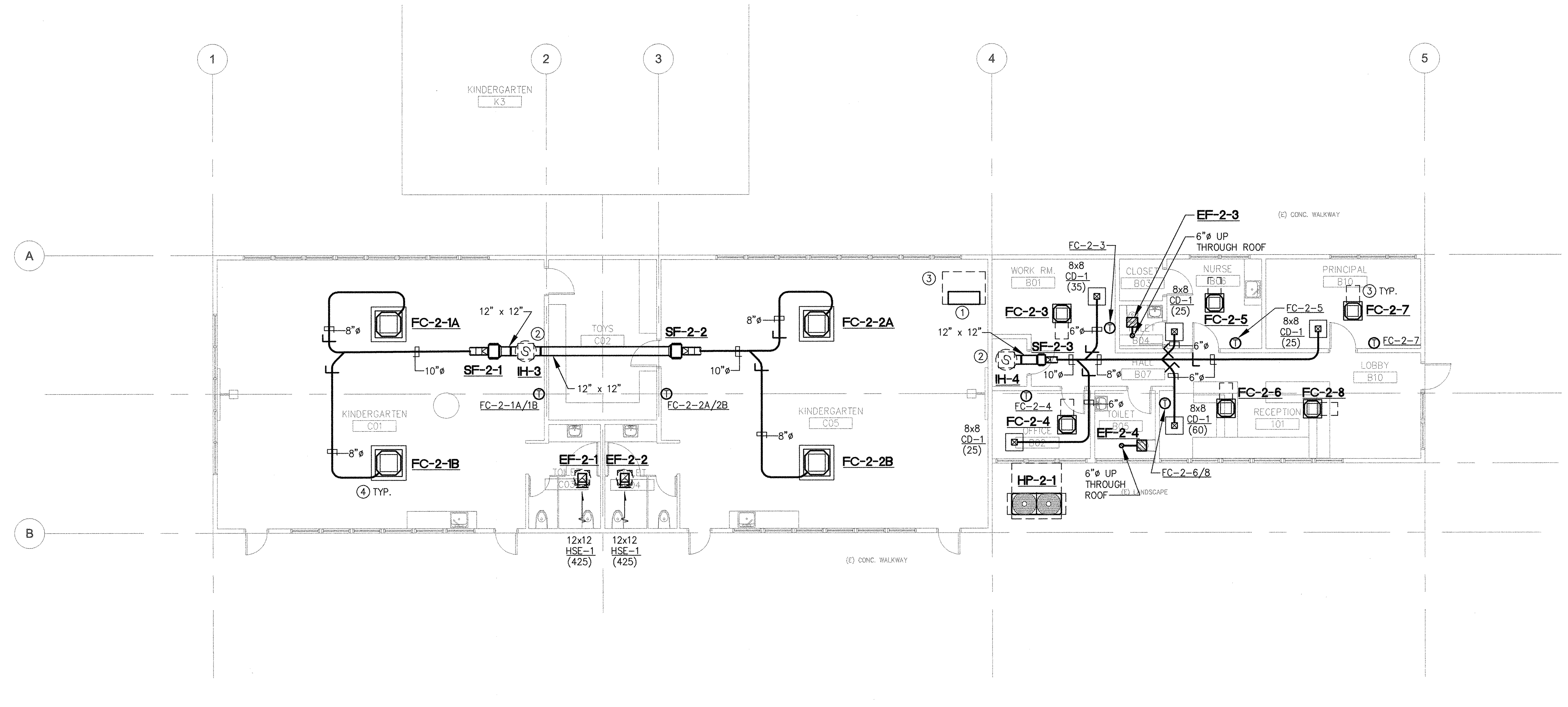


ADMINISTRATION - KINDERGARTEN BUILDING - MECHANICAL DEMOLITION

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

DEMOLITION NOTES:

1. REMOVE (E) WALL HEATER COMPLETE. REMOVE (E) SUPPORTS, COMBUSTION AIR AND FLUE PIPING COMPLETE. SEE ARCHITECT'S DRAWINGS FOR INFILL.
2. REMOVE (E) WALL AC UNIT COMPLETE. SEE ARCHITECT'S DRAWINGS FOR INFILL.
3. REMOVE (E) EXHAUST FAN AND SUPPORTS COMPLETE.
4. REMOVE (E) FURNACE COMPLETE. REMOVE (E) SUPPORTS, COMBUSTION AIR AND FLUE PIPING COMPLETE. SEE ARCHITECT'S DRAWINGS FOR INFILL.
5. REMOVE (E) SIDEWALL SUPPLY REGISTERS AND SUPPORTS COMPLETE. SEE ARCHITECT'S DRAWINGS FOR INFILL.
6. REMOVE (E) THERMOSTAT AND WIRING COMPLETE.
7. REMOVE (E) SUPPLY AND RETURN DUCT AND SUPPORTS COMPLETE.
8. REMOVE (E) RELIEF VENT AND SUPPORTS COMPLETE. SEE ARCHITECT'S DRAWINGS FOR INFILL.



ADMINISTRATION - KINDERGARTEN BUILDING - MECHANICAL

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

NEW NOTES:

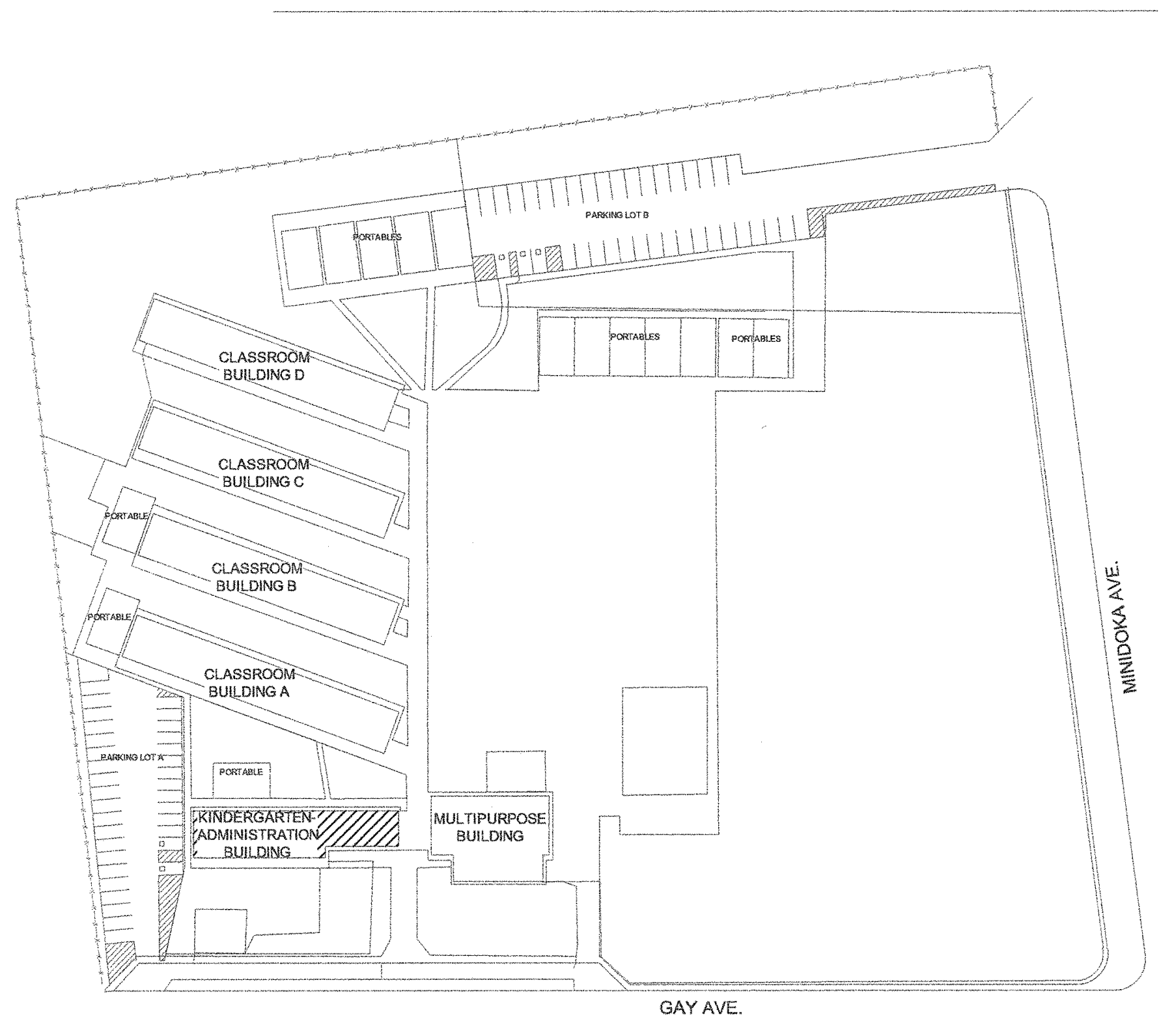
① BRANCH CIRCUIT CONTROLLER ABOVE CEILING. FOR MOUNTING SEE 2/M6.1. FOR REFRIGERANT ROUTING, SEE M3.1.

② INSTALL AIR INTAKE HOOD ON ROOF, MINIMUM 10'-0" AWAY FROM ANY PLUMBING VENTS OR EXHAUST OUTLETS. FOR DUCT CONNECTION AND FILTER BOX, SEE 17/M6.1.

③ REQUIRED ACCESS CLEARANCE.

④ USE FLEX DUCT FOR LAST 5'-0" OF CONNECTION TO UNIT.

BUILDING KEY



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ADMINISTRATION - KINDERGARTEN BUILDING -
FLOOR PLANS MECHANICAL

RUSSO-McENTEE ACADEMY- HVAC UPGRADES
2851 GAY AVE., SAN JOSE, CA 95127
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

REVISIONS

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AC KG FLS MS SS LN
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JOB NO: 17102	DATE: 04/09/2018

M2.2

May 14, 2018 9:28:29 a.m.
Drawing: H:\PROJ2017\20170293\DRAWINGS\LNA-FILS\HVA-M22.DWG
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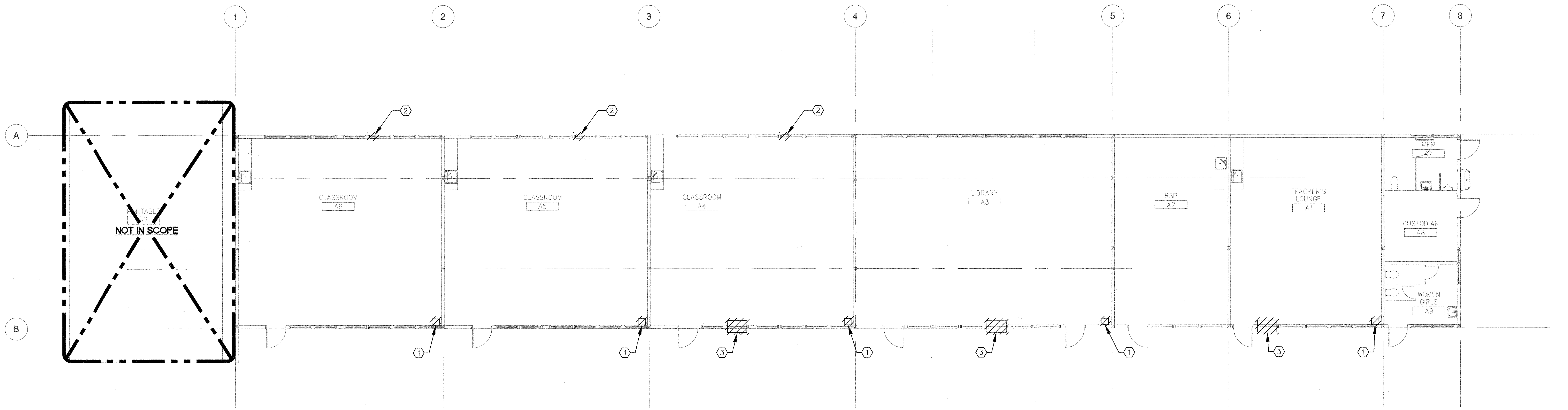


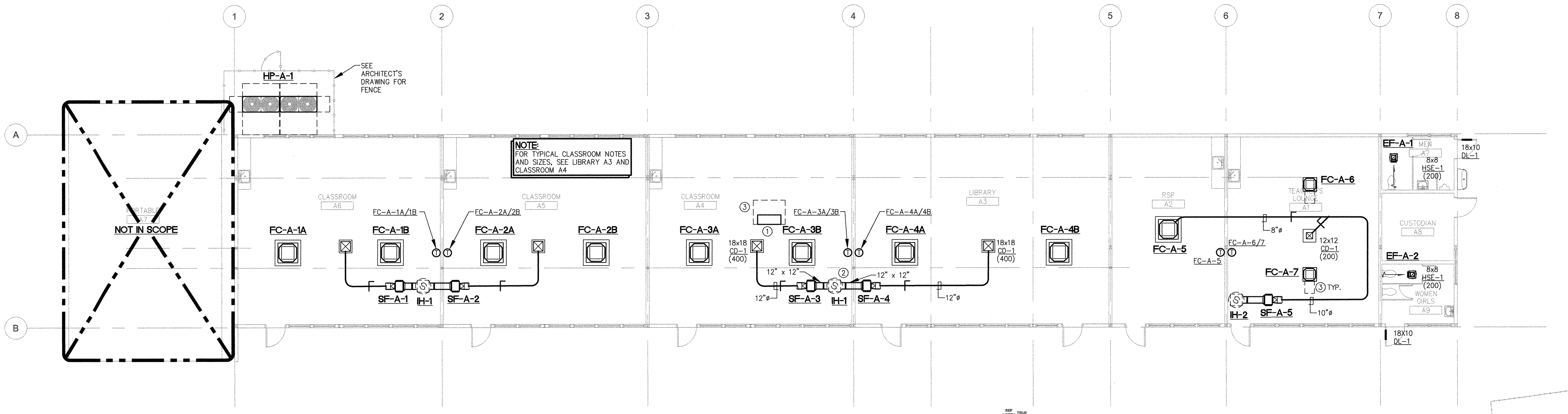
UNIT A CLASSROOMS, LIBRARY - MECHANICAL DEMOLITION

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

REF NORTH TRUE NORTH

DEMOLITION NOTES:

1. REMOVE (E) WALL HEATER COMPLETE. REMOVE (E) SUPPORTS, COMBUSTION AIR AND FLUE PIPING COMPLETE. SEE ARCHITECT'S DRAWINGS FOR INFILL
2. REMOVE (E) PORTABLE AC LOUVER. SEE ARCHITECT'S DRAWINGS FOR INFILL. RETURN (E) PORTABLE AC TO SCHOOL DISTRICT.
3. REMOVE (E) WALL AC UNIT COMPLETE. SEE ARCHITECT'S DRAWINGS FOR INFILL.



NOTE:
FOR TYPICAL CLASSROOM NOTES AND SIZES, SEE LIBRARY A3 AND CLASSROOM A4

UNIT A CLASSROOMS, LIBRARY - MECHANICAL

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

REF NORTH TRUE NORTH

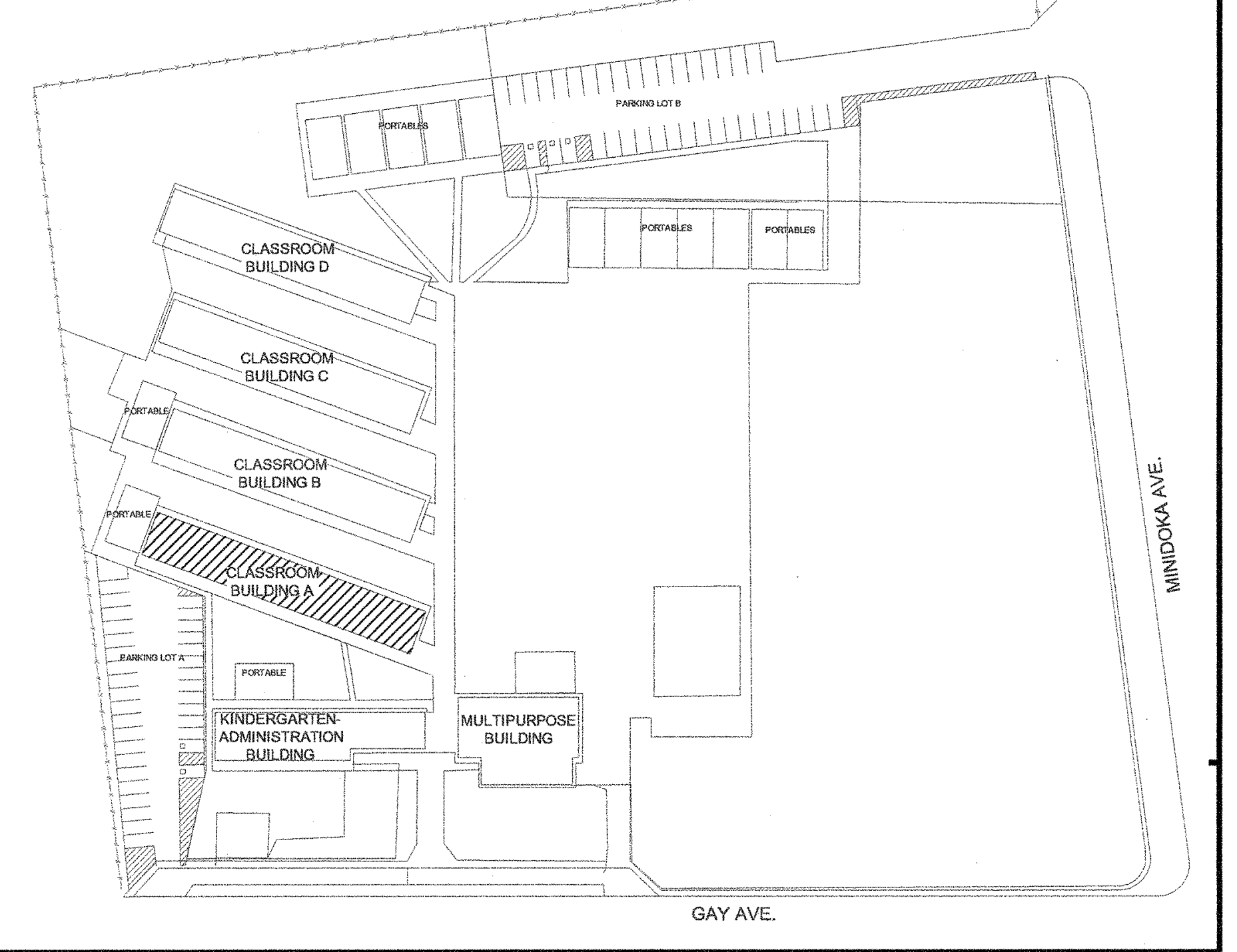
NEW NOTES:

① BRANCH CIRCUIT CONTROLLER ABOVE CEILING. FOR MOUNTING SEE 2/M6.1. FOR REFRIGERANT ROUTING, SEE M3.2.

② INSTALL AIR INTAKE HOOD ON ROOF, MINIMUM 10'–0" AWAY FROM ANY PLUMBING VENTS OR EXHAUST OUTLETS. FOR DUCT CONNECTION AND FILTER BOX, SEE 17/M6.1.

③ REQUIRED ACCESS CLEARANCE.

BUILDING KEY



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UNIT A CLASSROOMS - LIBRARY -
FLOOR PLANS MECHANICAL

RUSSO-McENTEE ACADEMY- HVAC UPGRADES
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ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

REVISIONS

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M2.3

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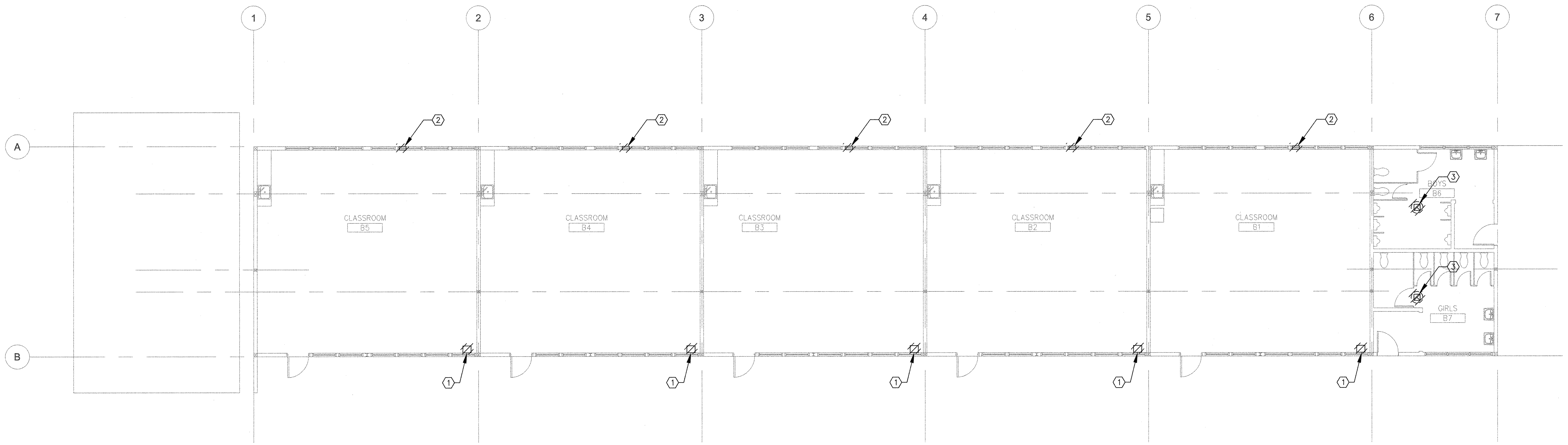
Xrefs: HVAB–MAIN.DWG, MASB–BKG.DWG, MAS–BORD.DWG,



UNIT B CLASSROOMS - MECHANICAL DEMOLITION

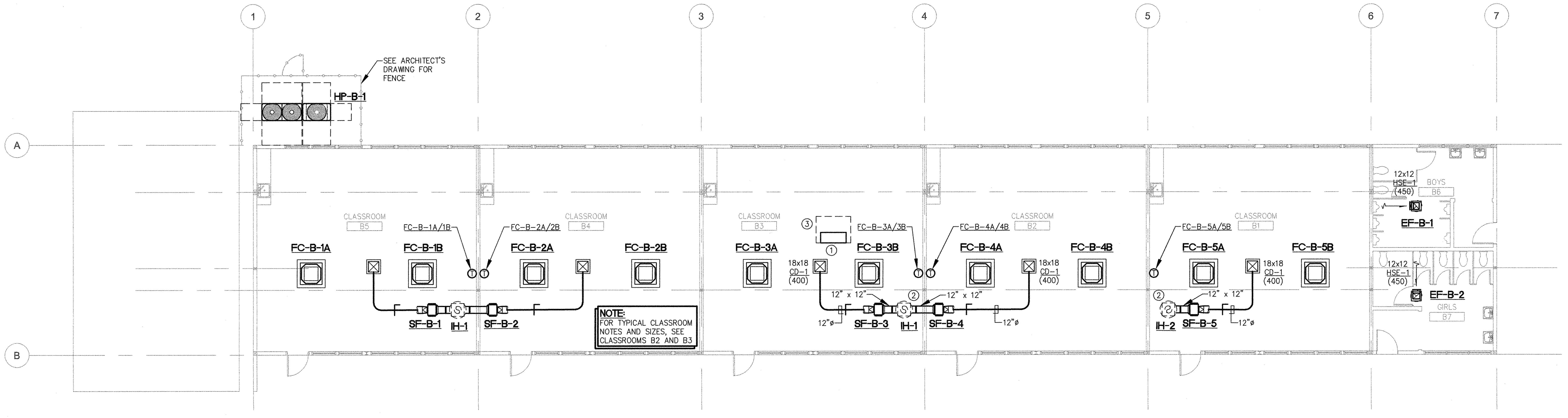
SCALE: 1/8" = 1'-0"

DEMOLITION NOTES:

⟨1⟩ REMOVE (E) WALL HEATER COMPLETE. REMOVE (E) SUPPORTS, COMBUSTION AIR AND FLUE PIPING COMPLETE. SEE ARCHITECT'S DRAWINGS FOR INFILL

⟨2⟩ REMOVE (E) PORTABLE AC LOUVER. SEE ARCHITECT'S DRAWINGS FOR INFILL. RETURN (E) PORTABLE AC TO SCHOOL DISTRICT.

⟨3⟩ REMOVE (E) EXHAUST FAN AND SUPPORTS COMPLETE.



NOTE:
FOR TYPICAL CLASSROOM NOTES AND SIZES, SEE CLASSROOMS B2 AND B3

UNIT B CLASSROOMS - MECHANICAL

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

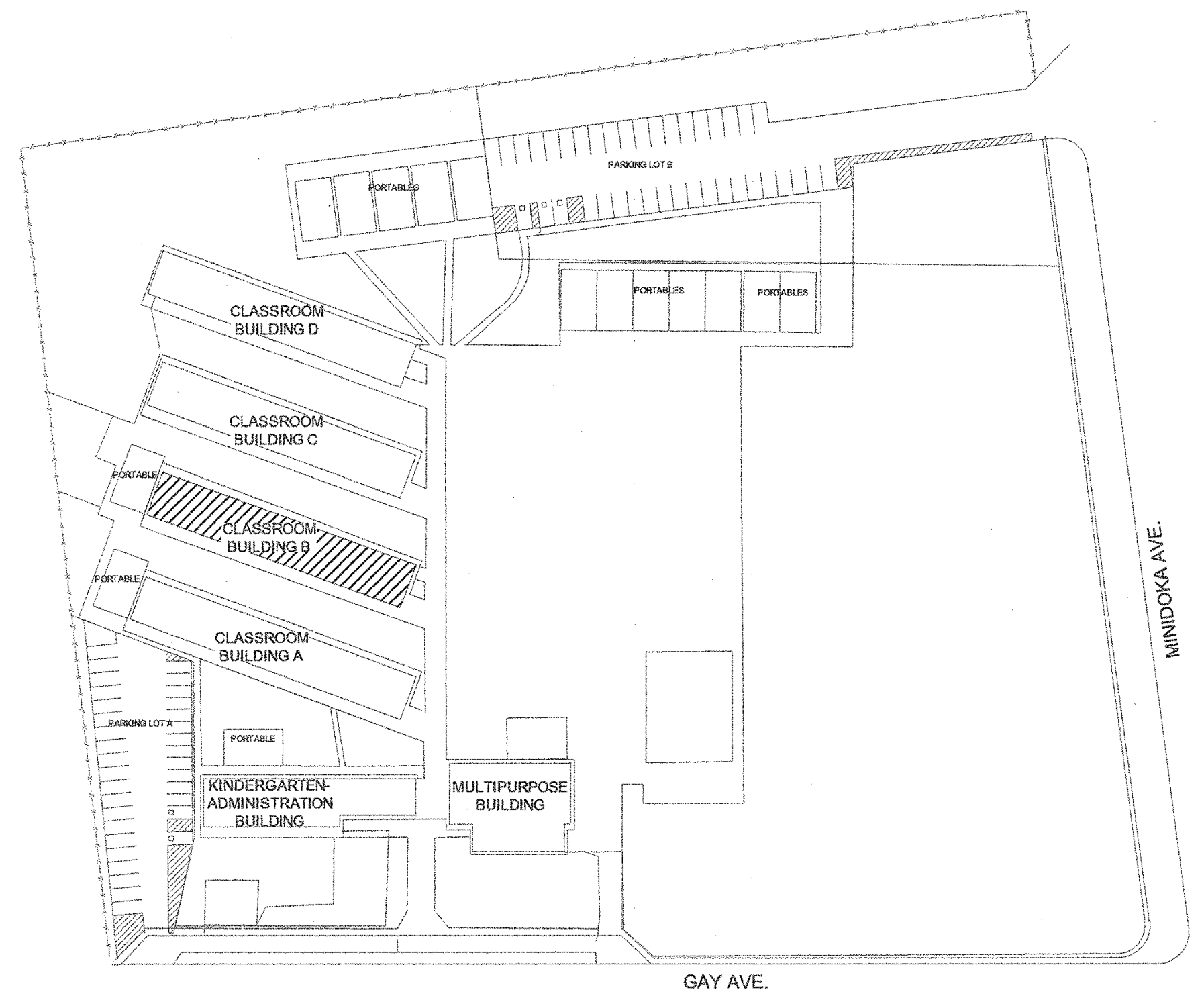
NEW NOTES:

① BRANCH CIRCUIT CONTROLLER ABOVE CEILING. FOR MOUNTING SEE 2/M6.1. FOR REFRIGERANT ROUTING, SEE M3.2.

② INSTALL AIR INTAKE HOOD ON ROOF, MINIMUM 10'–0" AWAY FROM ANY PLUMBING VENTS OR EXHAUST OUTLETS. FOR DUCT CONNECTION AND FILTER BOX, SEE 17/M6.1.

③ REQUIRED ACCESS CLEARANCE.

BUILDING KEY



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UNIT B CLASSROOMS -
FLOOR PLANS MECHANICAL

RUSSO-McENTEE ACADEMY- HVAC UPGRADES
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ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

REVISIONS

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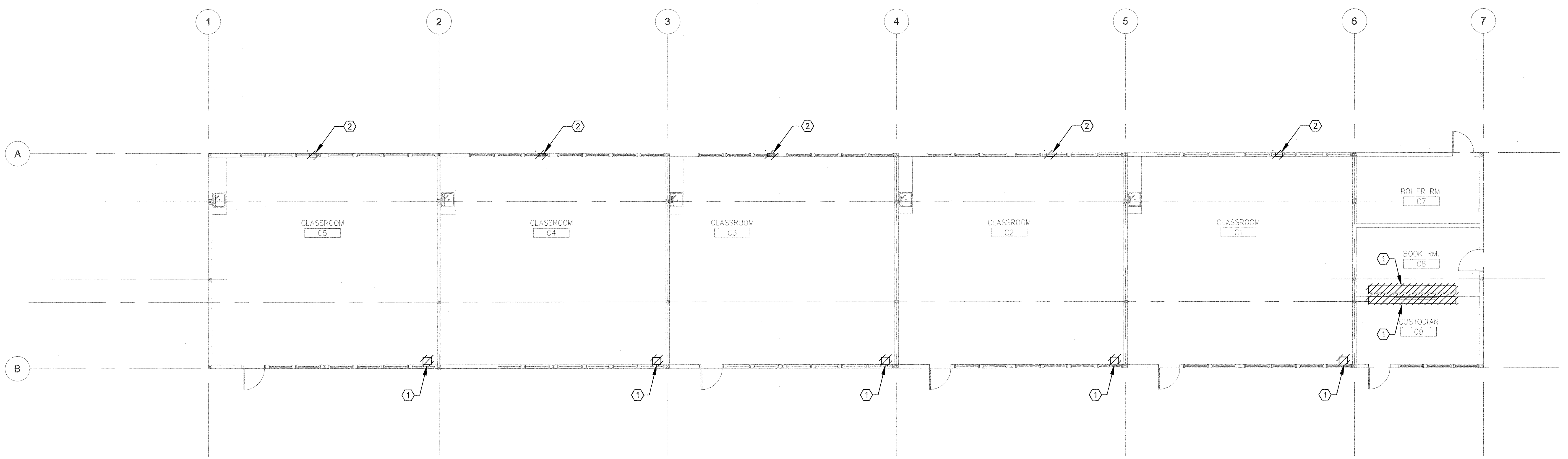


UNIT C CLASSROOMS - MECHANICAL DEMOLITION

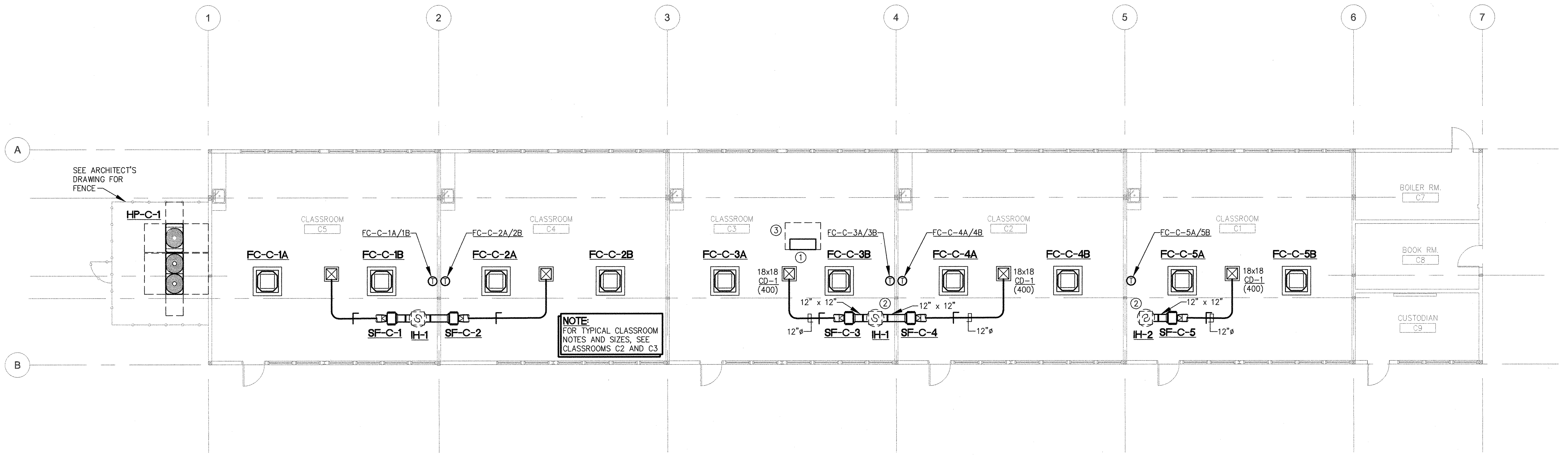
SCALE: 1/8" = 1'-0"

DEMOLITION NOTES:

⟨1⟩ REMOVE (E) WALL HEATER COMPLETE. REMOVE (E) SUPPORTS, COMBUSTION AIR AND FLUE PIPING COMPLETE. SEE ARCHITECT'S DRAWINGS FOR INFILL

⟨2⟩ REMOVE (E) PORTABLE AC LOUVER. SEE ARCHITECT'S DRAWINGS FOR INFILL. RETURN (E) PORTABLE AC TO SCHOOL DISTRICT.

⟨3⟩ REMOVE (E) EXHAUST FAN AND SUPPORTS COMPLETE.



NOTE:
FOR TYPICAL CLASSROOM NOTES AND SIZES, SEE CLASSROOMS C2 AND C3

UNIT C CLASSROOMS - MECHANICAL

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

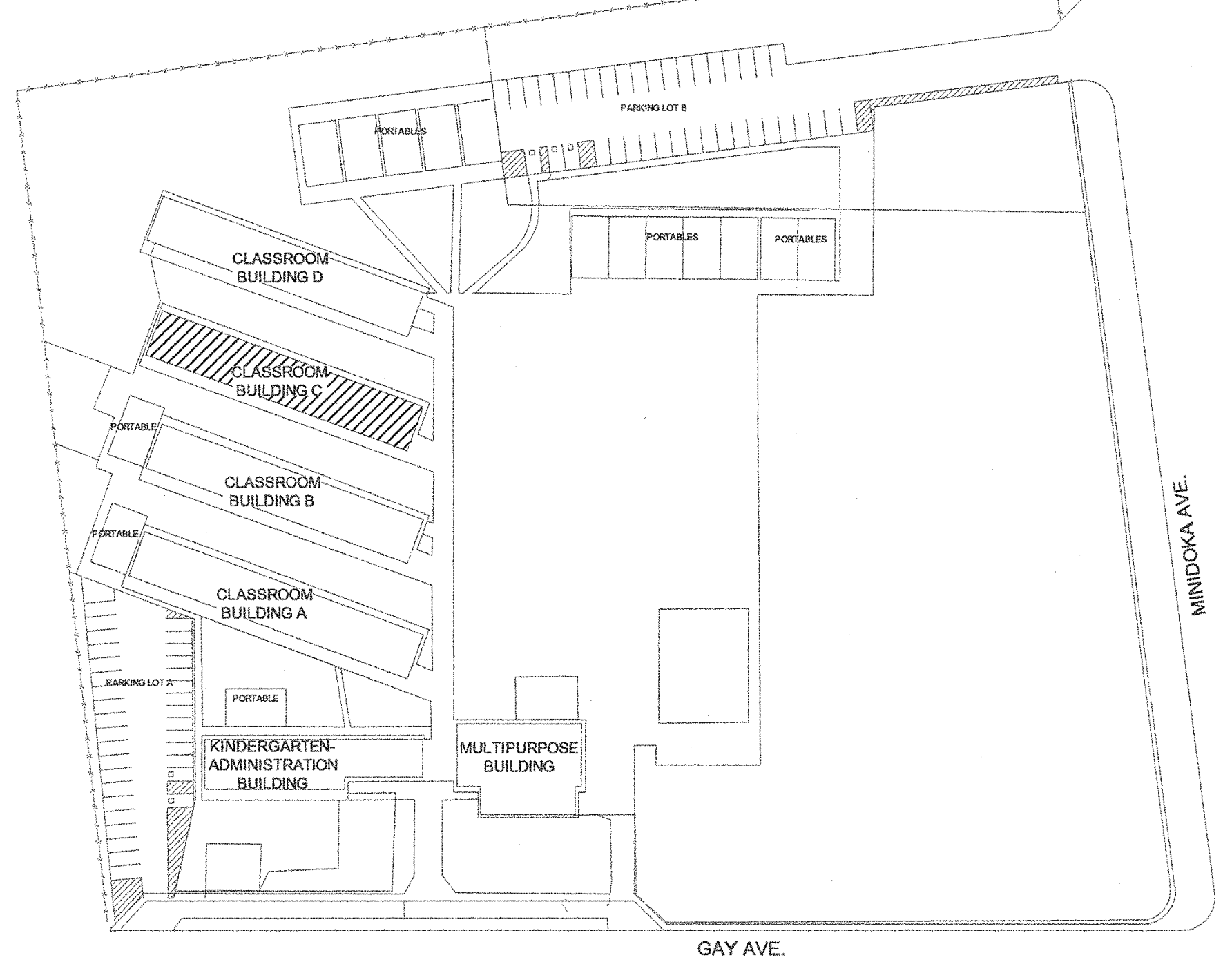
NEW NOTES:

① BRANCH CIRCUIT CONTROLLER ABOVE CEILING. FOR MOUNTING SEE 2/M6.1. FOR REFRIGERANT ROUTING, SEE M3.3.

② INSTALL AIR INTAKE HOOD ON ROOF, MINIMUM 10'-0" AWAY FROM ANY PLUMBING VENTS OR EXHAUST OUTLETS. FOR DUCT CONNECTION AND FILTER BOX, SEE 17/M6.1.

③ REQUIRED ACCESS CLEARANCE.

BUILDING KEY



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UNIT C CLASSROOMS -
FLOOR PLANS MECHANICAL

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Xrefs: HVAC-MAIN.DWG, MASC-BKG.DWG, MAS-BORD.DWG,

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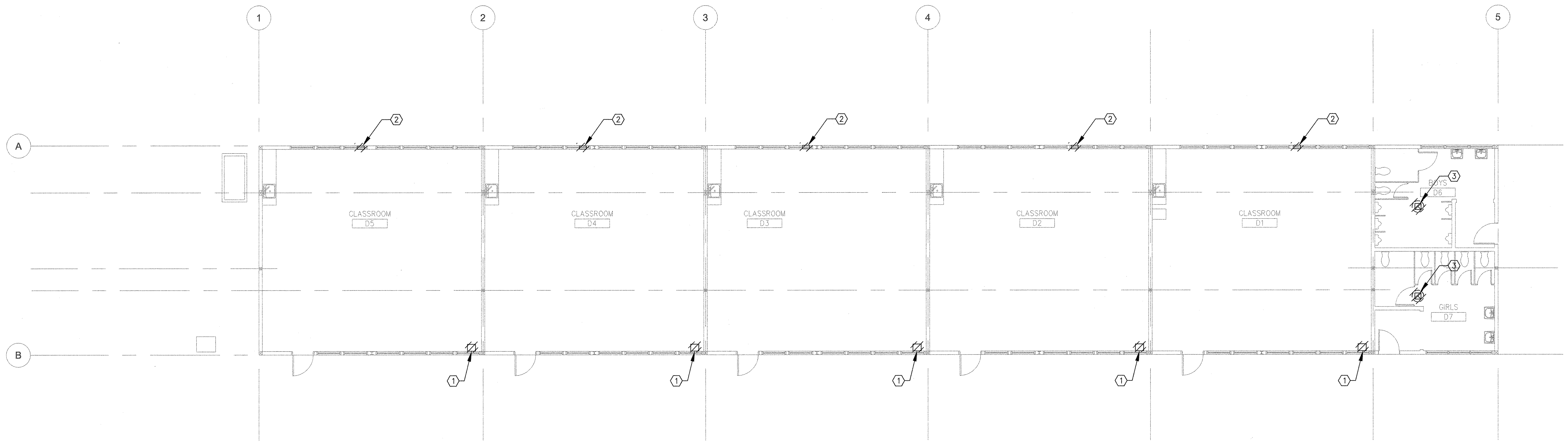


UNIT D CLASSROOMS - MECHANICAL DEMOLITION

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

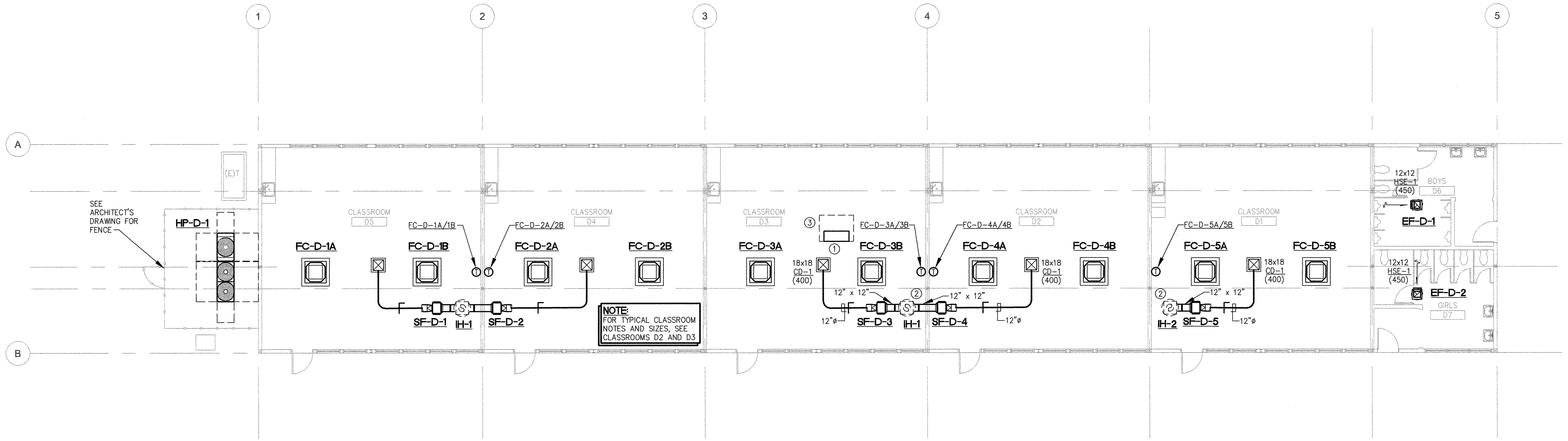
REF NORTH TRUE NORTH

DEMOLITION NOTES:

⟨1⟩ REMOVE (E) WALL HEATER COMPLETE. REMOVE (E) SUPPORTS, COMBUSTION AIR AND FLUE PIPING COMPLETE. SEE ARCHITECT'S DRAWINGS FOR INFILL

⟨2⟩ REMOVE (E) PORTABLE AC LOUVER. SEE ARCHITECT'S DRAWINGS FOR INFILL. RETURN (E) PORTABLE AC TO SCHOOL DISTRICT.

⟨3⟩ REMOVE (E) EXHAUST FAN AND SUPPORTS COMPLETE.



NOTE:
FOR TYPICAL CLASSROOM NOTES AND SIZES, SEE CLASSROOMS D2 AND D3

UNIT D CLASSROOMS - MECHANICAL

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

REF NORTH TRUE NORTH

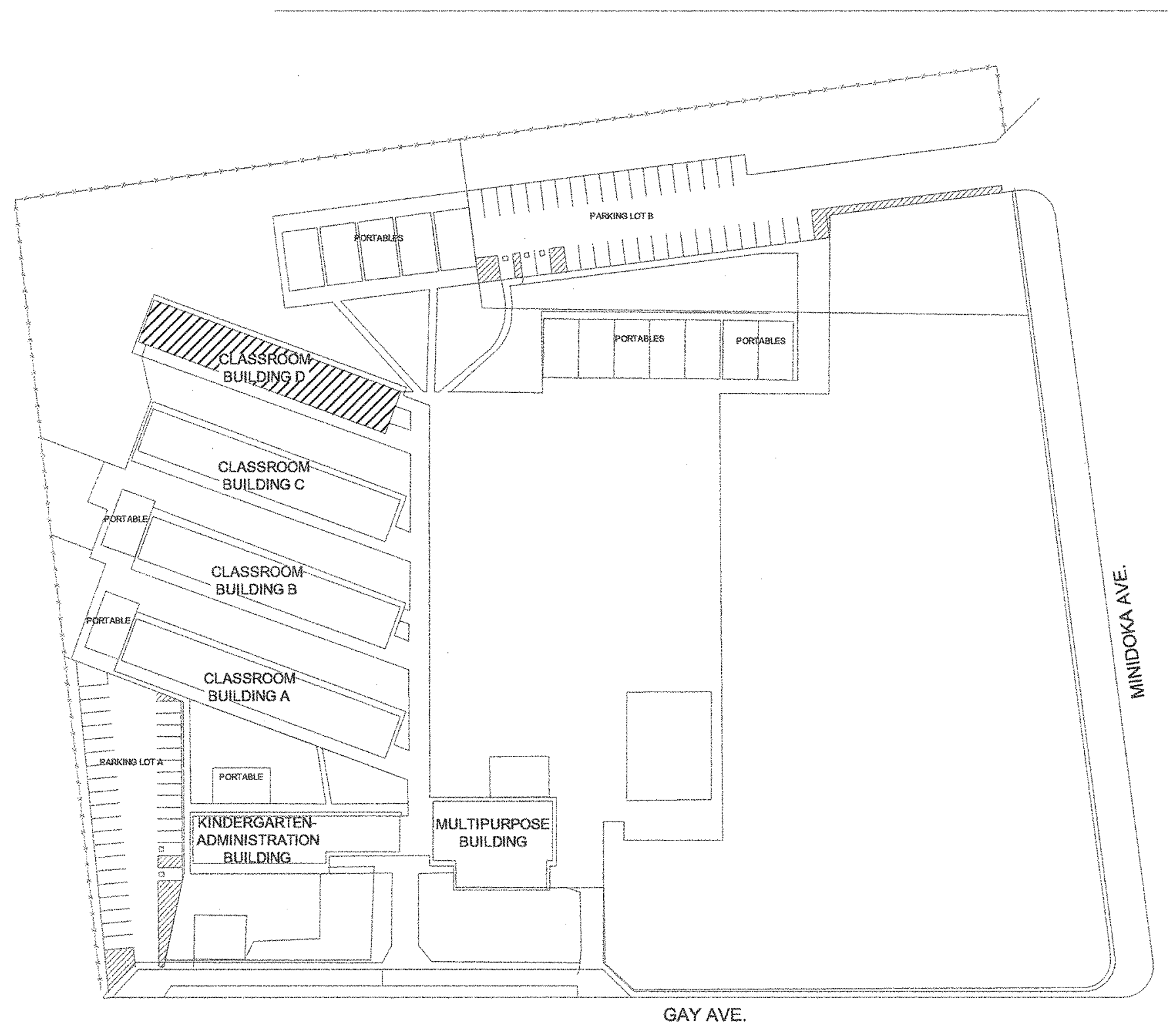
NEW NOTES:

① BRANCH CIRCUIT CONTROLLER ABOVE CEILING. FOR MOUNTING SEE 2/M6.1. FOR REFRIGERANT ROUTING, SEE M3.3.

② INSTALL AIR INTAKE HOOD ON ROOF, MINIMUM 10'-0" AWAY FROM ANY PLUMBING VENTS OR EXHAUST OUTLETS. FOR DUCT CONNECTION AND FILTER BOX, SEE 17/M6.1.

③ REQUIRED ACCESS CLEARANCE.

BUILDING KEY



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22 Lower Ragsdale Dr., Suite A
Monterey, California 93940-5788
AE Project # : 20170293

UNIT D CLASSROOMS - FLOOR PLANS MECHANICAL

RUSSO-McENTEE ACADEMY- HVAC UPGRADES
2851 GAY AVE., SAN JOSE, CA 95127
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

REVISIONS

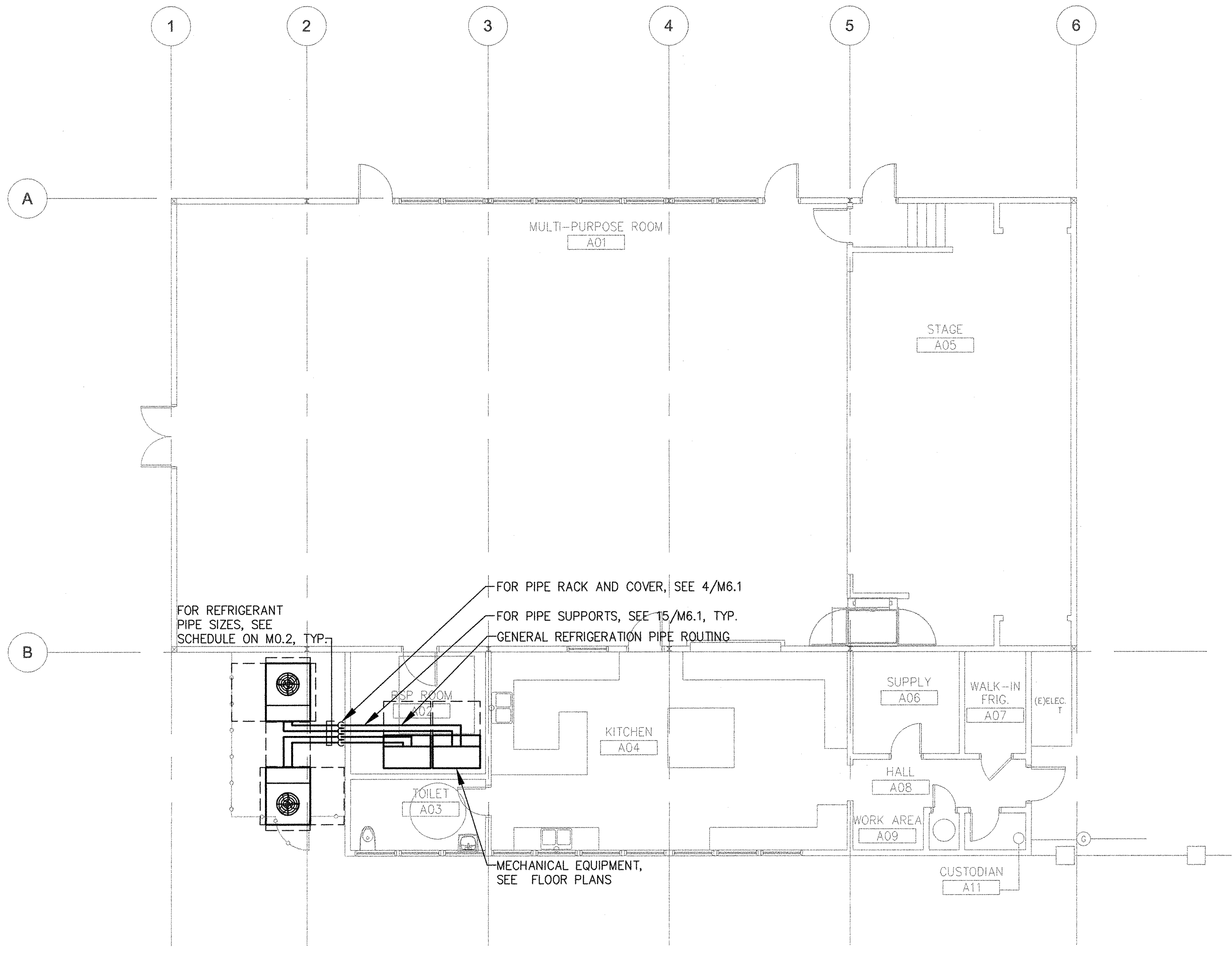
NO.	ITEM	DATE
	DD SUBMITTAL	12-8-17
	DSA SUBMITTAL	01-31-18
	BID SET	04-09-18

DSA FILE NUMBER 43-04

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL 01-117267
AC KG FLS MS SS
DATE MAY 2 2 2018

DRAWN BY: CADD
CHECKED BY: MS
JOB NO: 17102
DATE: 04/09/2018

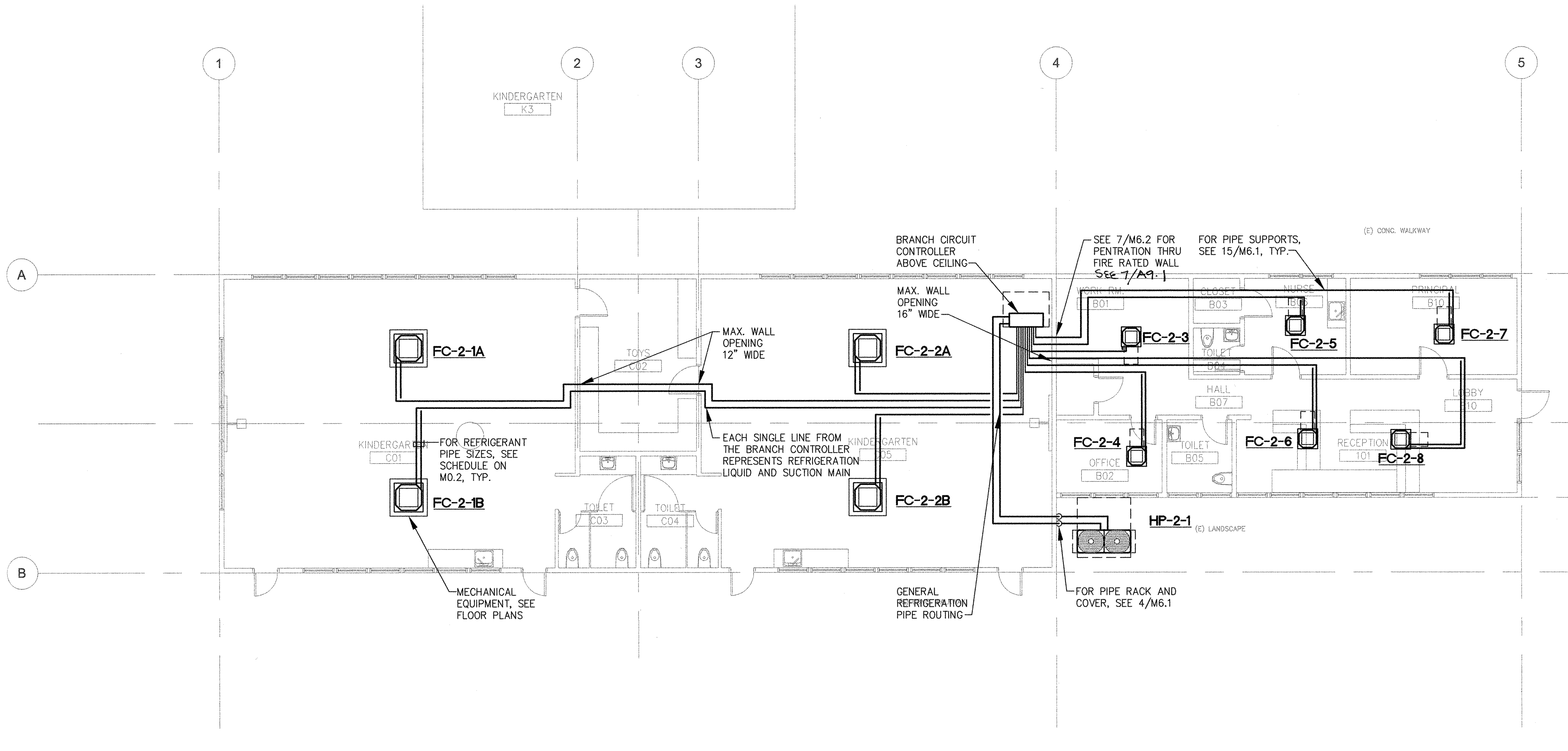
M2.6


1
2
3
4
5
6
A
B
MULTI-PURPOSE ROOM
A01
STAGE
A05
RSP ROOM
A02
TOILET
A03
KITCHEN
A04
SUPPLY
A06
WALK-IN FRIG.
A07
(E)ELEC.
HALL
A08
WORK AREA
A09
CUSTODIAN
A11
FOR REFRIGERANT PIPE SIZES, SEE SCHEDULE ON M0.2, TYP.
FOR PIPE RACK AND COVER, SEE 4/M6.1
FOR PIPE SUPPORTS, SEE 15/M6.1, TYP.
GENERAL REFRIGERATION PIPE ROUTING
MECHANICAL EQUIPMENT, SEE FLOOR PLANS

MULTI-PURPOSE AND KITCHEN WING A, BLDG 1 - MECHANICAL

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

TRUE NORTH
REF NORTH

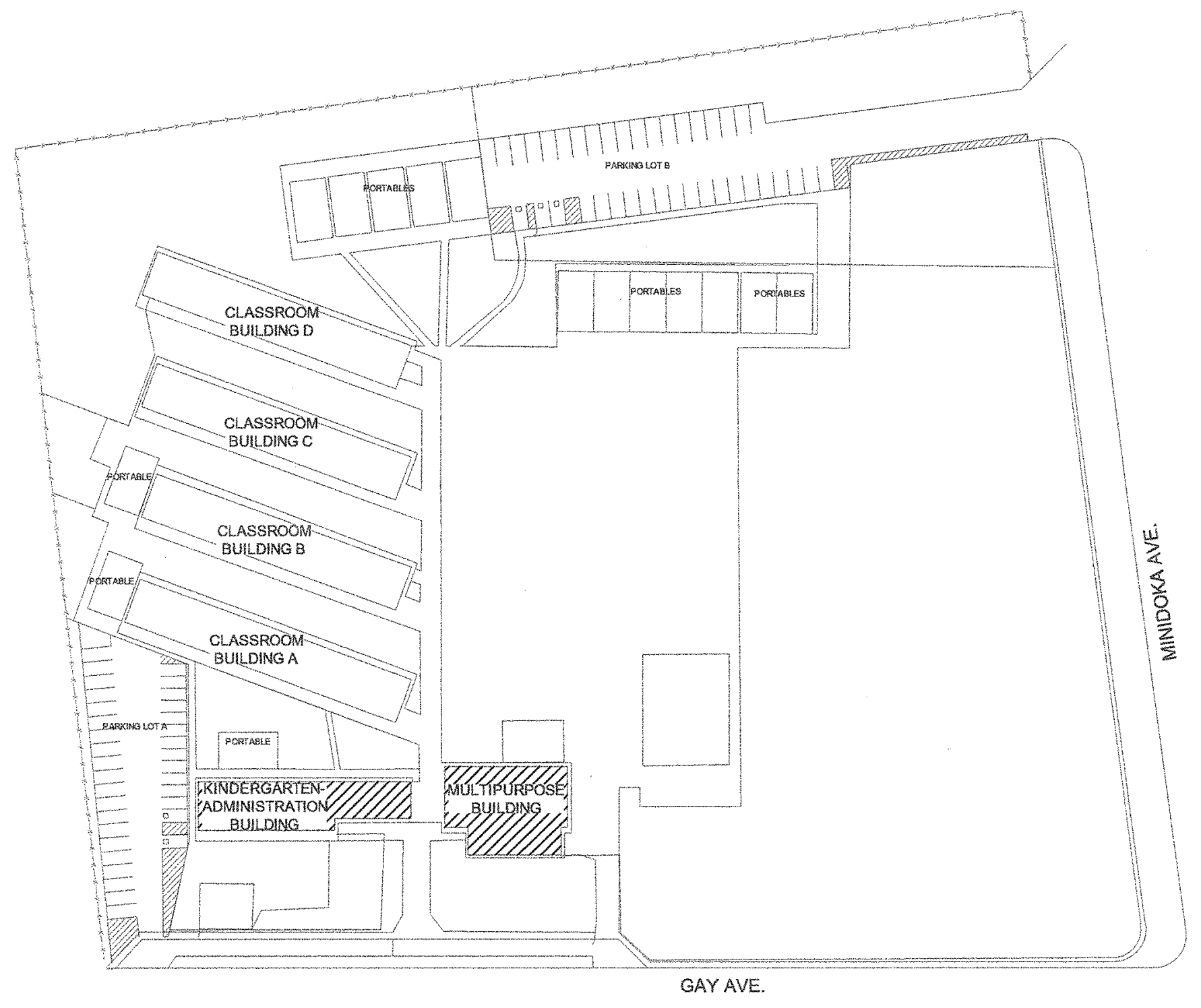

1
2
3
4
5
A
B
KINDERGARTEN
K3
FC-2-1A
FC-2-1B
FC-2-2A
FC-2-2B
FC-2-3
FC-2-4
FC-2-5
FC-2-6
FC-2-7
FC-2-8
HP-2-1
TOYS
C02
KINDERGARTEN
C01
KINDERGARTEN
C05
TOILET
C03
TOILET
C04
WORK RM.
B01
OFFICE
B02
CLOSET
B03
TOILET
B04
TOILET
B05
NURSE
B06
HALL
B07
PRINCIPAL
B10
LOBBY
110
RECEPTION
101
(E) CONC. WALKWAY
(E) LANDSCAPE
FOR REFRIGERANT PIPE SIZES, SEE SCHEDULE ON M0.2, TYP.
MECHANICAL EQUIPMENT, SEE FLOOR PLANS
MAX. WALL OPENING 12" WIDE
EACH SINGLE LINE FROM THE BRANCH CONTROLLER REPRESENTS REFRIGERATION LIQUID AND SUCTION MAIN
BRANCH CIRCUIT CONTROLLER ABOVE CEILING
MAX. WALL OPENING 16" WIDE
GENERAL REFRIGERATION PIPE ROUTING
SEE 7/M6.2 FOR PENTRATION THRU FIRE RATED WALL SEE 7/A9.1
FOR PIPE SUPPORTS, SEE 15/M6.1, TYP.
FOR PIPE RACK AND COVER, SEE 4/M6.1

ADMINISTRATION - KINDERGARTEN BUILDING - MECHANICAL

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

TRUE NORTH
REF NORTH

BUILDING KEY



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Drawing: H:\PROJ2017\20170293\DRAWINGS\LNA-FILS\HVA-M31.DWG May 14, 2018 9:28:45 a.m.
Xrefs: HVAMP-MAIN.DWG, MASMP-BKG.DWG, HVAKA-MAIN.DWG, MASKA-BKG.DWG, MAS-BORD.DWG,

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EXP. JUNE 30, 2019
MECHANICAL

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AE Project # : 20170293

MULTI-PURPOSE & ADMINISTRATION - KINDERGARTEN
BUILDING - PIPING PLANS MECHANICAL

RUSSO-McENTEE ACADEMY- HVAC UPGRADES
2851 GAY AVE., SAN JOSE, CA 95127
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

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17102	04/09/2018

M3.1

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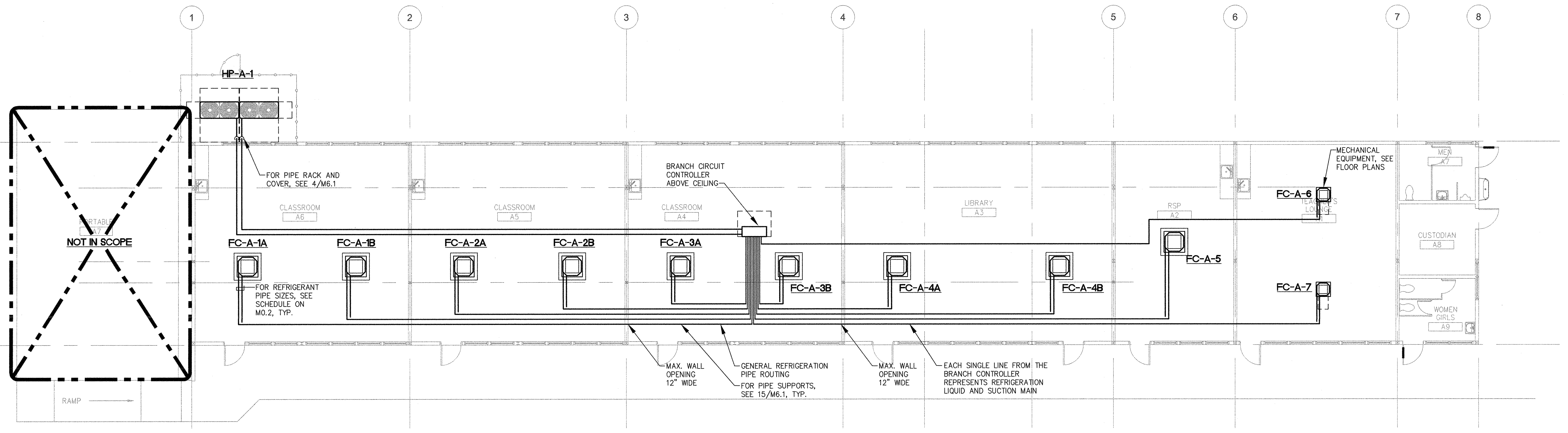
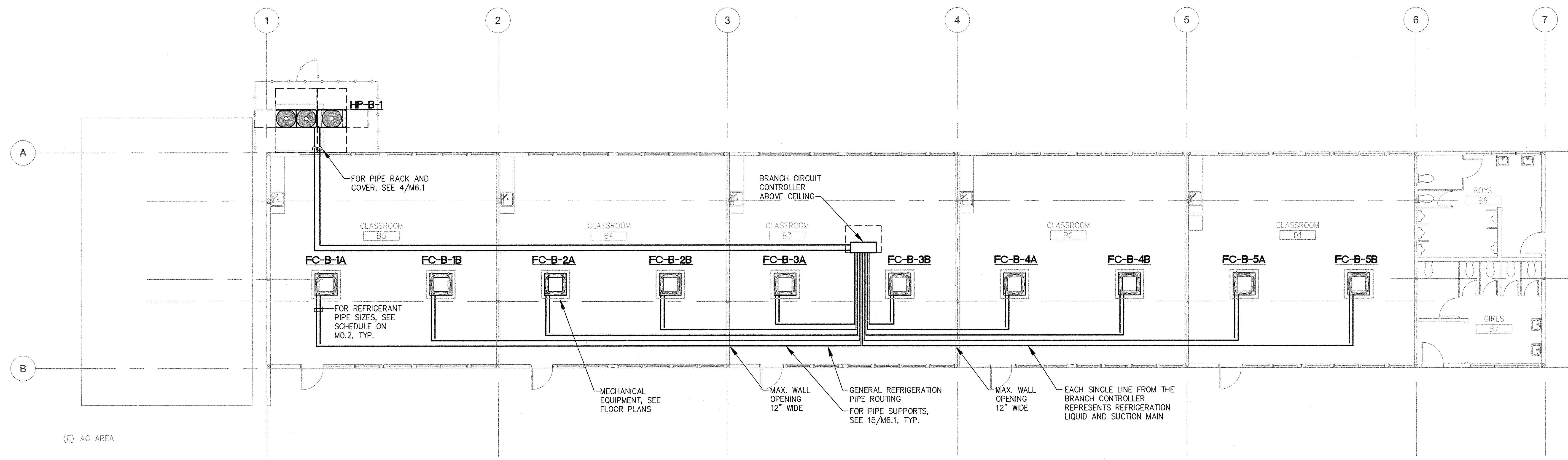
Xrefs: MASB-BKG.DWG, HVAB-MAIN.DWG, HVAA-MAIN.DWG, MASA-BKG.DWG, MAS-BORD.DWG,


1
2
3
4
5
6
7
8
HP-A-1
PORTABLE
A7
NOT IN SCOPE
FOR PIPE RACK AND COVER, SEE 4/M6.1
BRANCH CIRCUIT CONTROLLER ABOVE CEILING
CLASSROOM A6
CLASSROOM A5
CLASSROOM A4
LIBRARY A3
RSP A2
TEACHER'S LOUNGE A1
MECHANICAL EQUIPMENT, SEE FLOOR PLANS
MEN A7
CUSTODIAN A8
WOMEN GIRLS A9
FC-A-1A
FC-A-1B
FC-A-2A
FC-A-2B
FC-A-3A
FC-A-3B
FC-A-4A
FC-A-4B
FC-A-5
FC-A-6
FC-A-7
FOR REFRIGERANT PIPE SIZES, SEE SCHEDULE ON M0.2, TYP.
MAX. WALL OPENING 12" WIDE
GENERAL REFRIGERATION PIPE ROUTING
FOR PIPE SUPPORTS, SEE 15/M6.1, TYP.
MAX. WALL OPENING 12" WIDE
EACH SINGLE LINE FROM THE BRANCH CONTROLLER REPRESENTS REFRIGERATION LIQUID AND SUCTION MAIN
RAMP

UNIT A CLASSROOMS, LIBRARY - MECHANICAL

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

TRUE NORTH
REF NORTH

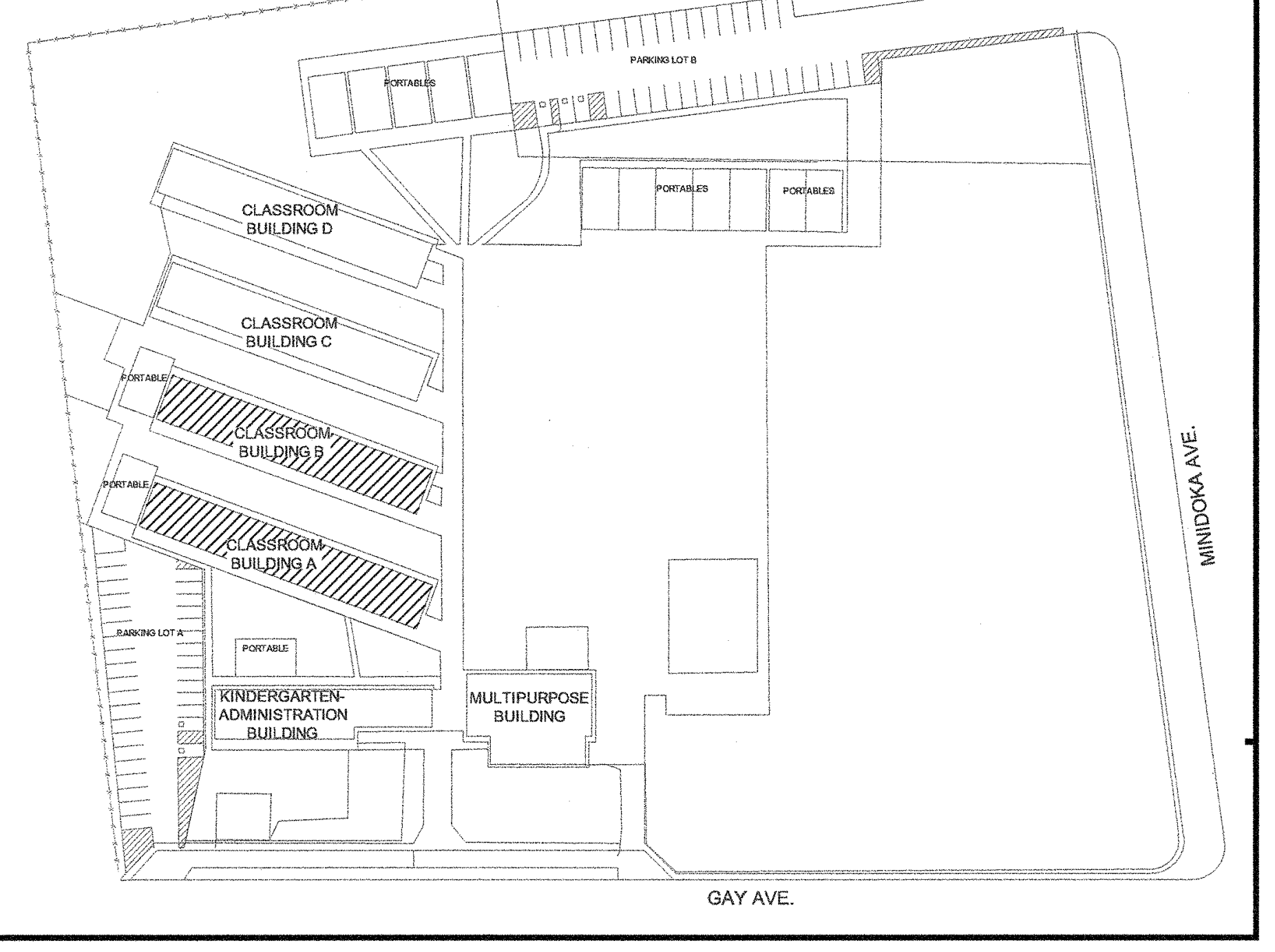

1
2
3
4
5
6
7
A
B
HP-B-1
FOR PIPE RACK AND COVER, SEE 4/M6.1
BRANCH CIRCUIT CONTROLLER ABOVE CEILING
CLASSROOM B5
CLASSROOM B4
CLASSROOM B3
CLASSROOM B2
CLASSROOM B1
BOYS B6
GIRLS B7
FC-B-1A
FC-B-1B
FC-B-2A
FC-B-2B
FC-B-3A
FC-B-3B
FC-B-4A
FC-B-4B
FC-B-5A
FC-B-5B
FOR REFRIGERANT PIPE SIZES, SEE SCHEDULE ON M0.2, TYP.
MECHANICAL EQUIPMENT, SEE FLOOR PLANS
MAX. WALL OPENING 12" WIDE
GENERAL REFRIGERATION PIPE ROUTING
FOR PIPE SUPPORTS, SEE 15/M6.1, TYP.
MAX. WALL OPENING 12" WIDE
EACH SINGLE LINE FROM THE BRANCH CONTROLLER REPRESENTS REFRIGERATION LIQUID AND SUCTION MAIN
(E) AC AREA

UNIT B CLASSROOMS - MECHANICAL

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

TRUE NORTH
REF NORTH

BUILDING KEY



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Monterey, California 93940-5788

UNIT A & UNIT B CLASSROOM - PIPING PLANS MECHANICAL

RUSSO-McENTEE ACADEMY- HVAC UPGRADES
2851 GAY AVE., SAN JOSE, CA 95127
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

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17102	04/09/2018

M3.2

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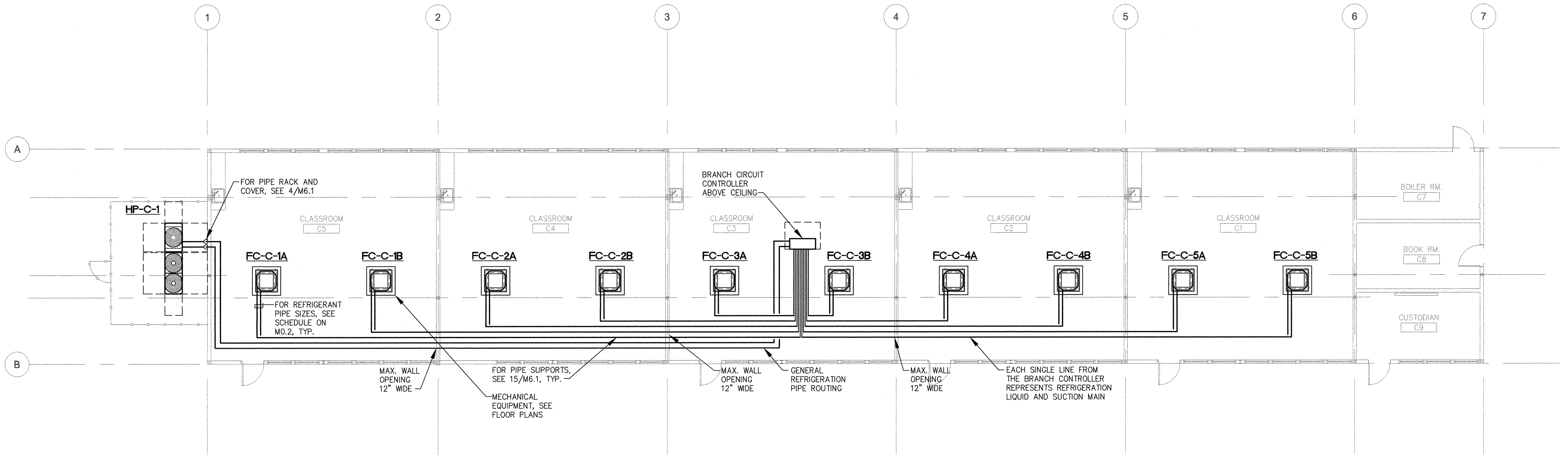
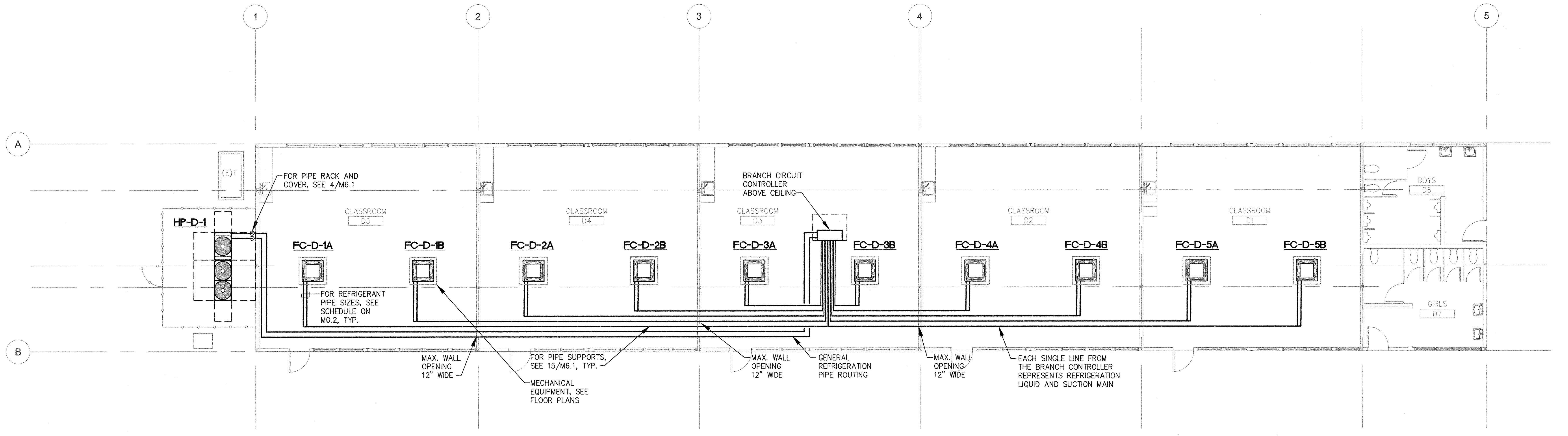
May 14, 2018 9:28:53 a.m.
Drawing: H:\PROJ2017\20170293\DRAWINGS\LNA-FILS\HVA-M33.DWG
Xrefs: MASD-BKG.DWG, HVAD-MAIN.DWG, HVAC-MAIN.DWG, MASC-BKG.DWG, MAS-BORD.DWG,


1
2
3
4
5
6
7
A
B
HP-C-1
FOR PIPE RACK AND COVER, SEE 4/M6.1
CLASSROOM C5
CLASSROOM C4
CLASSROOM C3
CLASSROOM C2
CLASSROOM C1
BOILER RM. C7
BOOK RM. C8
CUSTODIAN C9
BRANCH CIRCUIT CONTROLLER ABOVE CEILING
FC-C-1A
FC-C-1B
FC-C-2A
FC-C-2B
FC-C-3A
FC-C-3B
FC-C-4A
FC-C-4B
FC-C-5A
FC-C-5B
FOR REFRIGERANT PIPE SIZES, SEE SCHEDULE ON M0.2, TYP.
MAX. WALL OPENING 12" WIDE
FOR PIPE SUPPORTS, SEE 15/M6.1, TYP.
MECHANICAL EQUIPMENT, SEE FLOOR PLANS
MAX. WALL OPENING 12" WIDE
GENERAL REFRIGERATION PIPE ROUTING
MAX. WALL OPENING 12" WIDE
EACH SINGLE LINE FROM THE BRANCH CONTROLLER REPRESENTS REFRIGERATION LIQUID AND SUCTION MAIN
REF NORTH
TRUE NORTH

UNIT C CLASSROOMS - MECHANICAL

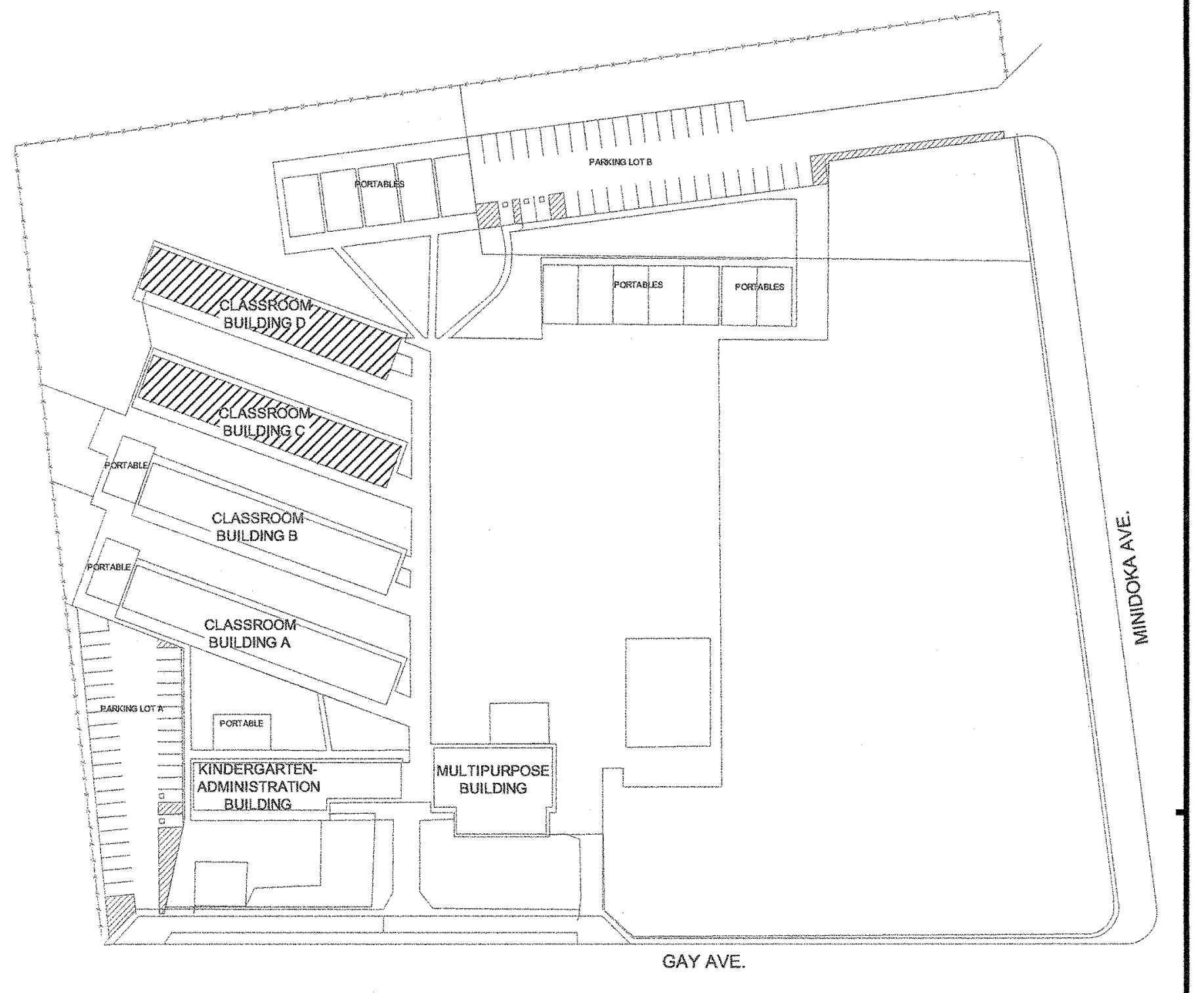
SCALE: 1/8" = 1'-0"


1
2
3
4
5
A
B
(E)T
HP-D-1
FOR PIPE RACK AND COVER, SEE 4/M6.1
CLASSROOM D5
CLASSROOM D4
CLASSROOM D3
CLASSROOM D2
CLASSROOM D1
BOYS D6
GIRLS D7
BRANCH CIRCUIT CONTROLLER ABOVE CEILING
FC-D-1A
FC-D-1B
FC-D-2A
FC-D-2B
FC-D-3A
FC-D-3B
FC-D-4A
FC-D-4B
FC-D-5A
FC-D-5B
FOR REFRIGERANT PIPE SIZES, SEE SCHEDULE ON M0.2, TYP.
MAX. WALL OPENING 12" WIDE
FOR PIPE SUPPORTS, SEE 15/M6.1, TYP.
MECHANICAL EQUIPMENT, SEE FLOOR PLANS
MAX. WALL OPENING 12" WIDE
GENERAL REFRIGERATION PIPE ROUTING
MAX. WALL OPENING 12" WIDE
EACH SINGLE LINE FROM THE BRANCH CONTROLLER REPRESENTS REFRIGERATION LIQUID AND SUCTION MAIN
REF NORTH
TRUE NORTH

UNIT D CLASSROOMS - MECHANICAL

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

BUILDING KEY



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AE Project # : 20170293

UNIT C & UNIT D CLASSROOMS -
PIPING PLANS MECHANICAL

RUSSO-McENTEE ACADEMY- HVAC UPGRADES
2851 GAY AVE., SAN JOSE, CA 95127
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

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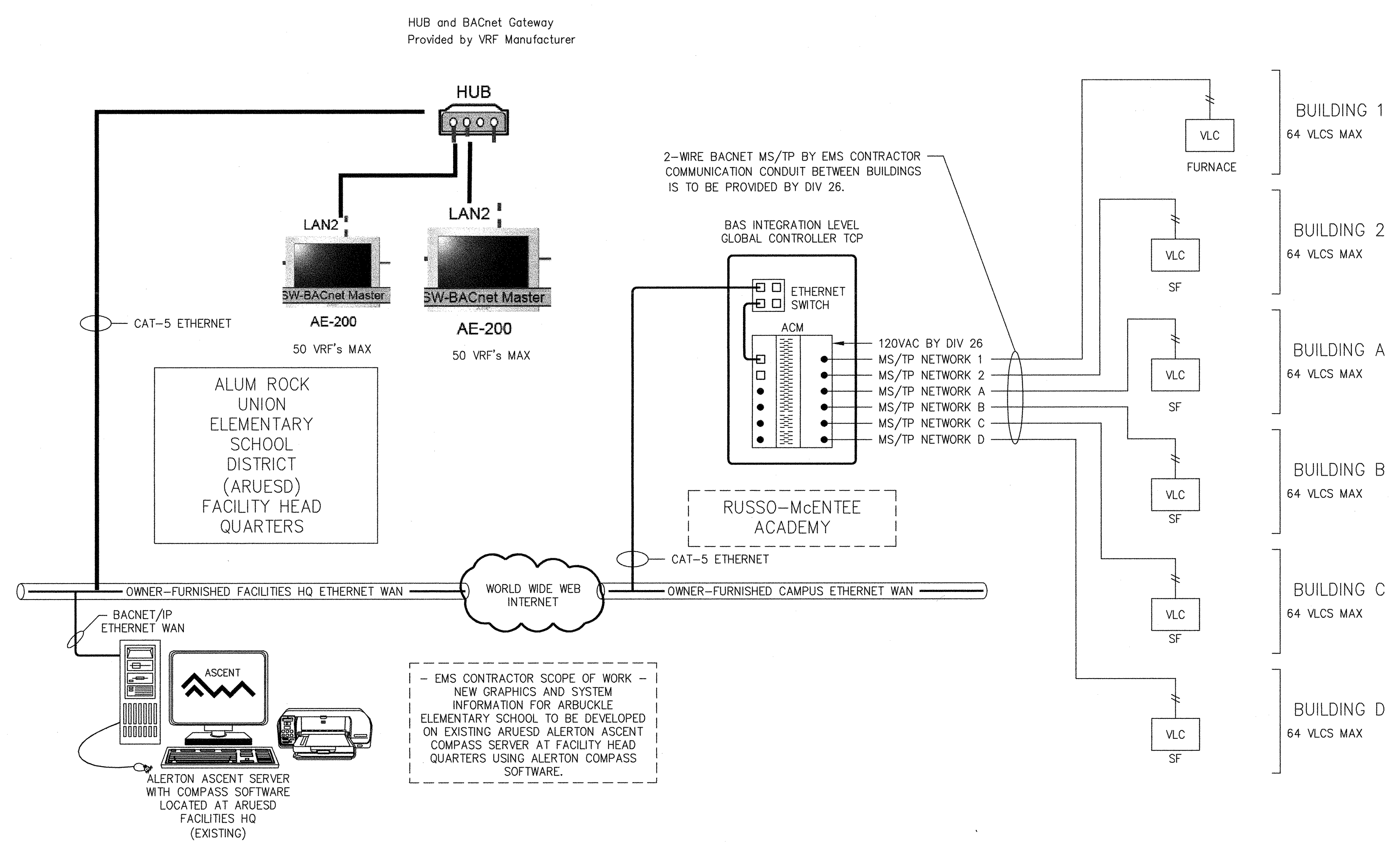
M3.3



2-WIRE BACNET MS/TP BY EMS CONTRACTOR COMMUNICATION CONDUIT BETWEEN BUILDINGS IS TO BE PROVIDED BY DIV 26.

– EMS CONTRACTOR SCOPE OF WORK – NEW GRAPHICS AND SYSTEM INFORMATION FOR ARBUCKLE ELEMENTARY SCHOOL TO BE DEVELOPED ON EXISTING ARUESD ALERTON ASCENT COMPASS SERVER AT FACILITY HEAD QUARTERS USING ALERTON COMPASS SOFTWARE.

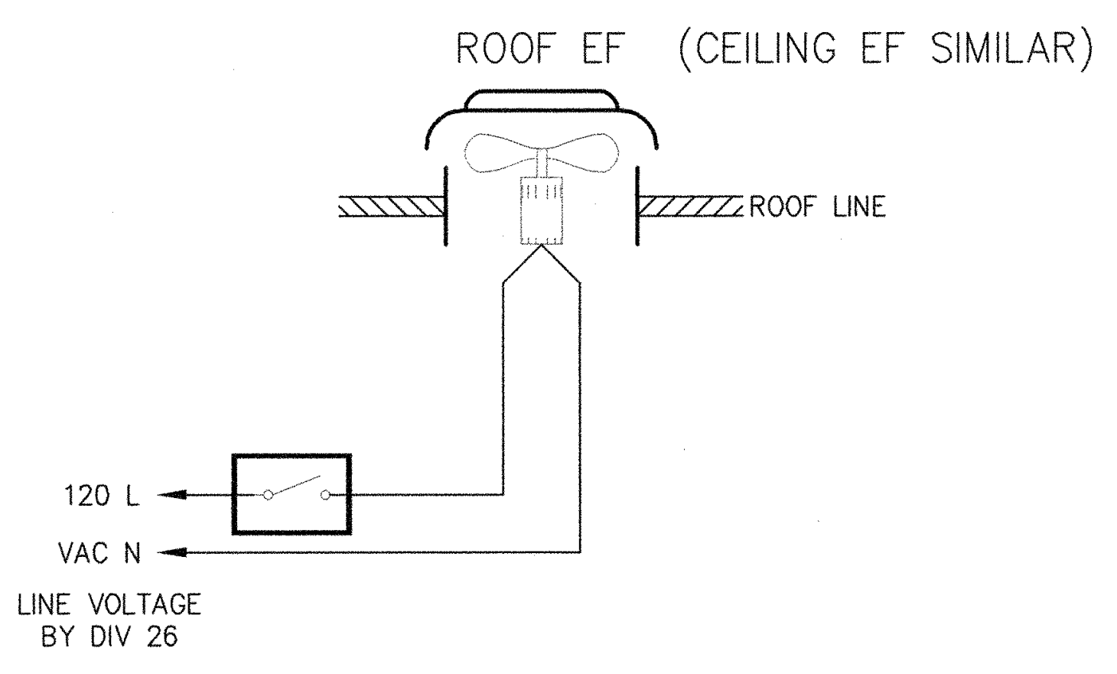
1
M5.1

ALERTON BACNET EMS SYSTEM

SCALE: NONE

SEQUENCE OF OPERATION

1. THE EXHAUST FAN STARTS WHEN LIGHT SWITCH IS ON.
2. EXHAUST FAN STOPS WHEN LIGHT SWITCH IS OFF.



2
M5.1

BATHROOM EXHAUST FAN

SCALE: NONE

EQUIPMENT INTERLOCK/CONTROLS

BUILDING	EQUIPMENT	CONTROL	INTERLOCK	REMARKS
BUILDING D	FC-D-1A	①	HP-D-1 SF-D-1	③
	FC-D-1B	①	HP-D-1 SF-D-1	③
	FC-D-2A	①	HP-D-1 SF-D-1	③
	FC-D-2B	①	HP-D-1 SF-D-1	③
	FC-D-3A	①	HP-D-1 SF-D-3	③
	FC-D-3B	①	HP-D-1 SF-D-3	③
	FC-D-4A	①	HP-D-1 SF-D-4	③
	FC-D-4B	①	HP-D-1 SF-D-4	③
	FC-D-5A	①	HP-D-1 SF-D-5	③
	FC-D-5B	①	HP-D-1 SF-D-5	③
	EF-D-1	②	–	
	EF-D-2	②	–	

① VRF SYSTEMS WILL OPERATE UNDER INTERNAL MITSUBISHI CONTROLS. EMS SYSTEM WILL COMMUNICATE WITH CENTRALIZED CONTROLLER THROUGH BACNET TO PROGRAM SCHEDULES AND SETPOINTS, AND ENABLE / DISABLE UNITS. BMS WILL MONITOR ROOM TEMPERATURE THROUGH CENTRALIZED CONTROLLER BACNET POINTS.

② SWITCH WITH LIGHTS.

③ SUPPLY FAN OPERATION WILL BE CONTROLLED BY EMS SYSTEM.

EQUIPMENT INTERLOCK/CONTROLS

BUILDING	EQUIPMENT	CONTROL	INTERLOCK	REMARKS
BUILDING 1	F-1-1	④	CU-1-1	
	F-1-2	④	CU-1-2	
BUILDING 2	FC-2-1A	①	HP-2-1 SF-2-1	③
	FC-2-1B	①	HP-2-1 SF-2-1	③
	FC-2-2A	①	HP-2-1 SF-2-2	③
	FC-2-2B	①	HP-2-1 SF-2-2	③
	FC-2-3	①	HP-2-1 SF-2-3	③
	FC-2-4	①	HP-2-1 SF-2-3	③
	FC-2-5	①	HP-2-1 SF-2-3	③
	FC-2-6	①	HP-2-1 SF-2-3	③
	FC-2-7	①	HP-2-1 SF-2-3	③
	FC-2-8	①	HP-2-1 SF-2-3	③
	EF-2-1	②	–	
	EF-2-2	②	–	
	EF-2-3	②	–	
	EF-2-4	②	–	
BUILDING A	FC-A-1A	①	HP-A-1 SF-A-1	③
	FC-A-1B	①	HP-A-1 SF-A-1	③
	FC-A-2A	①	HP-A-1 SF-A-2	③
	FC-A-2B	①	HP-A-1 SF-A-2	③
	FC-A-3A	①	HP-A-1 SF-A-3	③
	FC-A-3B	①	HP-A-1 SF-A-3	③
	FC-A-4A	①	HP-A-1 SF-A-4	③
	FC-A-4B	①	HP-A-1 SF-A-4	③
	FC-A-5	①	HP-A-1 SF-A-5	③
	FC-A-6	①	HP-A-1 SF-A-5	③
	FC-A-7	①	HP-A-1 SF-A-5	③
	EF-A-1	②	–	
	EF-A-2	②	–	
BUILDING B	FC-B-1A	①	HP-B-1 SF-B-1	③
	FC-B-1B	①	HP-B-1 SF-B-1	③
	FC-B-2A	①	HP-B-1 SF-B-1	③
	FC-B-2B	①	HP-B-1 SF-B-1	③
	FC-B-3A	①	HP-B-1 SF-B-3	③
	FC-B-3B	①	HP-B-1 SF-B-3	③
	FC-B-4A	①	HP-B-1 SF-B-4	③
	FC-B-4B	①	HP-B-1 SF-B-4	③
	FC-B-5A	①	HP-B-1 SF-B-5	③
	FC-B-5B	①	HP-B-1 SF-B-5	③
	EF-B-1	②	–	
	EF-B-2	②	–	
BUILDING C	FC-C-1A	①	HP-C-1 SF-C-1	③
	FC-C-1B	①	HP-C-1 SF-C-1	③
	FC-C-2A	①	HP-C-1 SF-C-1	③
	FC-C-2B	①	HP-C-1 SF-C-1	③
	FC-C-3A	①	HP-C-1 SF-C-3	③
	FC-C-3B	①	HP-C-1 SF-C-3	③
	FC-C-4A	①	HP-C-1 SF-C-4	③
	FC-C-4B	①	HP-C-1 SF-C-4	③
	FC-C-5A	①	HP-C-1 SF-C-5	③
	FC-C-5B	①	HP-C-1 SF-C-5	③

① VRF SYSTEMS WILL OPERATE UNDER INTERNAL MITSUBISHI CONTROLS. EMS SYSTEM WILL COMMUNICATE WITH CENTRALIZED CONTROLLER THROUGH BACNET TO PROGRAM SCHEDULES AND SETPOINTS, AND ENABLE / DISABLE UNITS. BMS WILL MONITOR ROOM TEMPERATURE THROUGH CENTRALIZED CONTROLLER BACNET POINTS.

② SWITCH WITH LIGHTS.

③ SUPPLY FAN OPERATION WILL BE CONTROLLED BY EMS SYSTEM.

④ CONTROLLED BY EMS SYSTEM.

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No. M31059
EXP. JUNE 30, 2019
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AXIOM ENGINEERS℠
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22 Lower Ragsdale Dr., Suite A
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AE Project # : 20170293

CONTROLS - MECHANICAL

RUSSO-McENTEE ACADEMY- HVAC UPGRADES
2851 GAY AVE., SAN JOSE, CA 95127
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE
	DD SUBMITTAL	12-8-17
	DSA SUBMITTAL	01-31-18
	BID SET	04-09-18

DSA FILE NUMBER 43-04

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DRAWN BY: CADD
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May 14, 2018 9:28:56 a.m.
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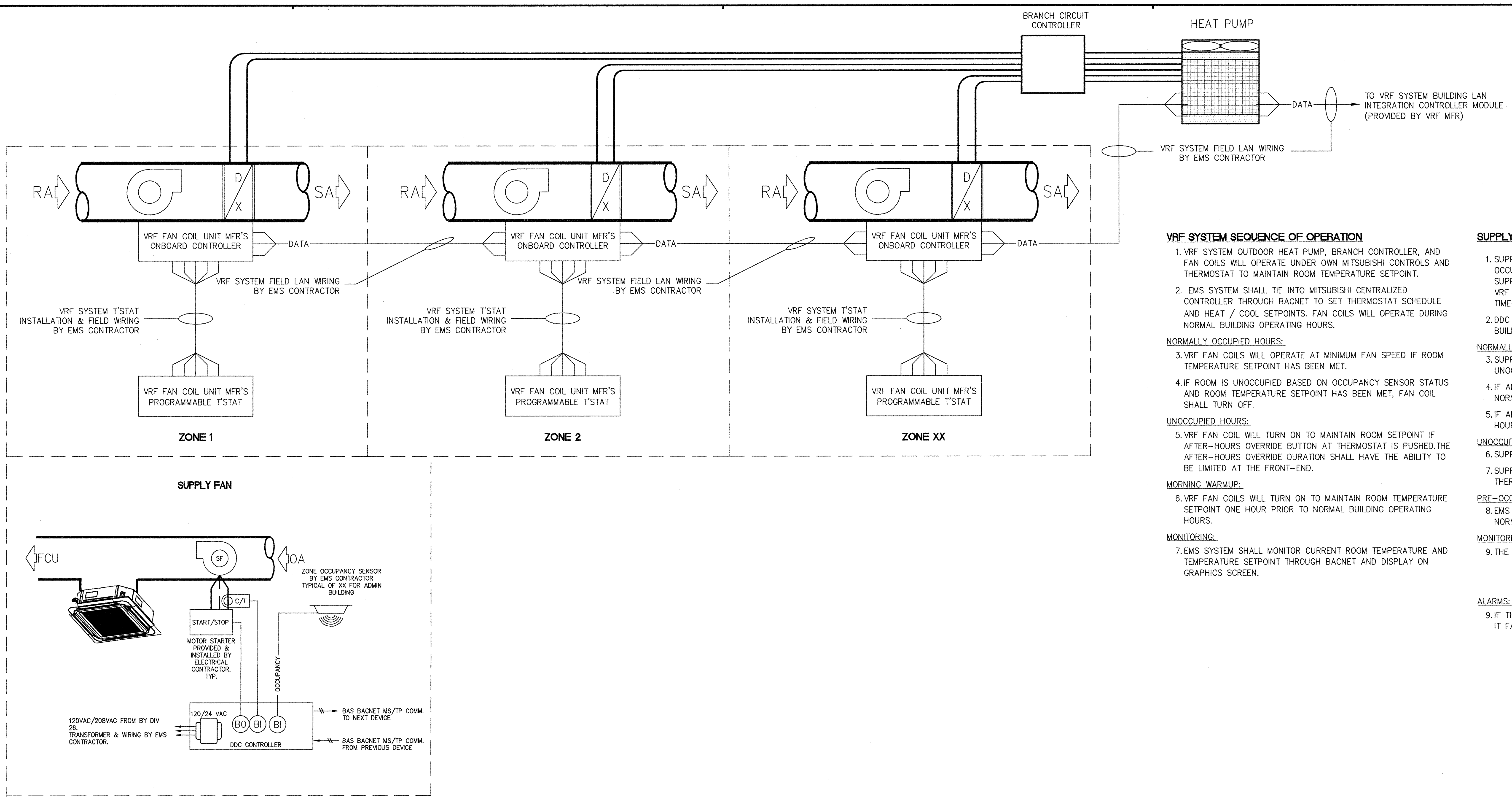
Xrefs: MAS-BORD.DWG,


BRANCH CIRCUIT CONTROLLER
HEAT PUMP
DATA
TO VRF SYSTEM BUILDING LAN INTEGRATION CONTROLLER MODULE (PROVIDED BY VRF MFR)
VRF SYSTEM FIELD LAN WIRING BY EMS CONTRACTOR
RA
SA
D/X
VRF FAN COIL UNIT MFR'S ONBOARD CONTROLLER
DATA
VRF SYSTEM FIELD LAN WIRING BY EMS CONTRACTOR
VRF SYSTEM T'STAT INSTALLATION & FIELD WIRING BY EMS CONTRACTOR
VRF FAN COIL UNIT MFR'S PROGRAMMABLE T'STAT
ZONE 1
ZONE 2
ZONE XX
SUPPLY FAN
FCU
SF
OA
ZONE OCCUPANCY SENSOR BY EMS CONTRACTOR TYPICAL OF XX FOR ADMIN BUILDING
C/T
START/STOP
MOTOR STARTER PROVIDED & INSTALLED BY ELECTRICAL CONTRACTOR, TYP.
OCCUPANCY
120/24 VAC
BO
BI
BI
DDC CONTROLLER
120VAC/208VAC FROM BY DIV 26. TRANSFORMER & WIRING BY EMS CONTRACTOR.
BAS BACNET MS/TP COMM. TO NEXT DEVICE
BAS BACNET MS/TP COMM. FROM PREVIOUS DEVICE

1
M5.2

ADMIN VRF FAN COIL SYSTEM - EMS FIELD WIRING DIAGRAM

SCALE: NONE

VRF SYSTEM SEQUENCE OF OPERATION

1. VRF SYSTEM OUTDOOR HEAT PUMP, BRANCH CONTROLLER, AND FAN COILS WILL OPERATE UNDER OWN MITSUBISHI CONTROLS AND THERMOSTAT TO MAINTAIN ROOM TEMPERATURE SETPOINT.
2. EMS SYSTEM SHALL TIE INTO MITSUBISHI CENTRALIZED CONTROLLER THROUGH BACNET TO SET THERMOSTAT SCHEDULE AND HEAT / COOL SETPOINTS. FAN COILS WILL OPERATE DURING NORMAL BUILDING OPERATING HOURS.

NORMALLY OCCUPIED HOURS:

3. VRF FAN COILS WILL OPERATE AT MINIMUM FAN SPEED IF ROOM TEMPERATURE SETPOINT HAS BEEN MET.
4. IF ROOM IS UNOCCUPIED BASED ON OCCUPANCY SENSOR STATUS AND ROOM TEMPERATURE SETPOINT HAS BEEN MET, FAN COIL SHALL TURN OFF.

UNOCCUPIED HOURS:

5. VRF FAN COIL WILL TURN ON TO MAINTAIN ROOM SETPOINT IF AFTER–HOURS OVERRIDE BUTTON AT THERMOSTAT IS PUSHED.THE AFTER–HOURS OVERRIDE DURATION SHALL HAVE THE ABILITY TO BE LIMITED AT THE FRONT–END.

MORNING WARMUP:

6. VRF FAN COILS WILL TURN ON TO MAINTAIN ROOM TEMPERATURE SETPOINT ONE HOUR PRIOR TO NORMAL BUILDING OPERATING HOURS.

MONITORING:

7. EMS SYSTEM SHALL MONITOR CURRENT ROOM TEMPERATURE AND TEMPERATURE SETPOINT THROUGH BACNET AND DISPLAY ON GRAPHICS SCREEN.

SUPPLY FAN SEQUENCE OF OPERATION

1. SUPPLY FAN WILL BE SCHEDULED SAME TIME AS ANY ZONE VRF SYSTEM. THE VRF OCCUPANCY SCHEDULE WILL BE AVAILABLE THROUGH THE BACNET INTERFACE, WHILE SUPPLY FAN WILL BE SCHEDULED THROUGH THE DDC CONTROLLER. THE SUPPLY FAN AND VRF FCs WILL OPERATE DURING NORMAL BUILDING OPERATING HOURS THROUGH EMS TIME–CLOCK.
2. DDC CONTROLLER MONITORS OCCUPANCY SENSOR STATUS OF ALL ZONES IN ADMIN BUILDING.

NORMALLY OCCUPIED HOURS:

3. SUPPLY FAN SHALL BE ON DURING SCHEDULED HOURS UNLESS ALL ZONES ARE UNOCCUPIED.
4. IF ALL ZONES ARE UNOCCUPIED BASED ON OCCUPANCY SENSOR STATUS DURING NORMALLY SCHEDULED HOURS, THE SUPPLY FAN WILL TURN OFF.
5. IF ALL ZONES REMAIN UNOCCUPIED DURING SCHEDULED HOURS FOR MORE THAN ONE HOUR, SUPPLY FAN SHALL CYCLE ON TO PROVIDE OUTSIDE AIR FOR 15 MINUTES.

UNOCCUPIED HOURS:

6. SUPPLY FAN SHALL BE OFF DURING SCHEDULED BUILDING UNOCCUPIED HOURS.
7. SUPPLY FAN WILL TURN ON IF AFTER–HOURS OVERRIDE BUTTON IS PUSHED AT THERMOSTAT AND STAY ON FOR DURATION OF AFTER–HOURS OVERRIDE.

PRE–OCCUPANCY PURGE:

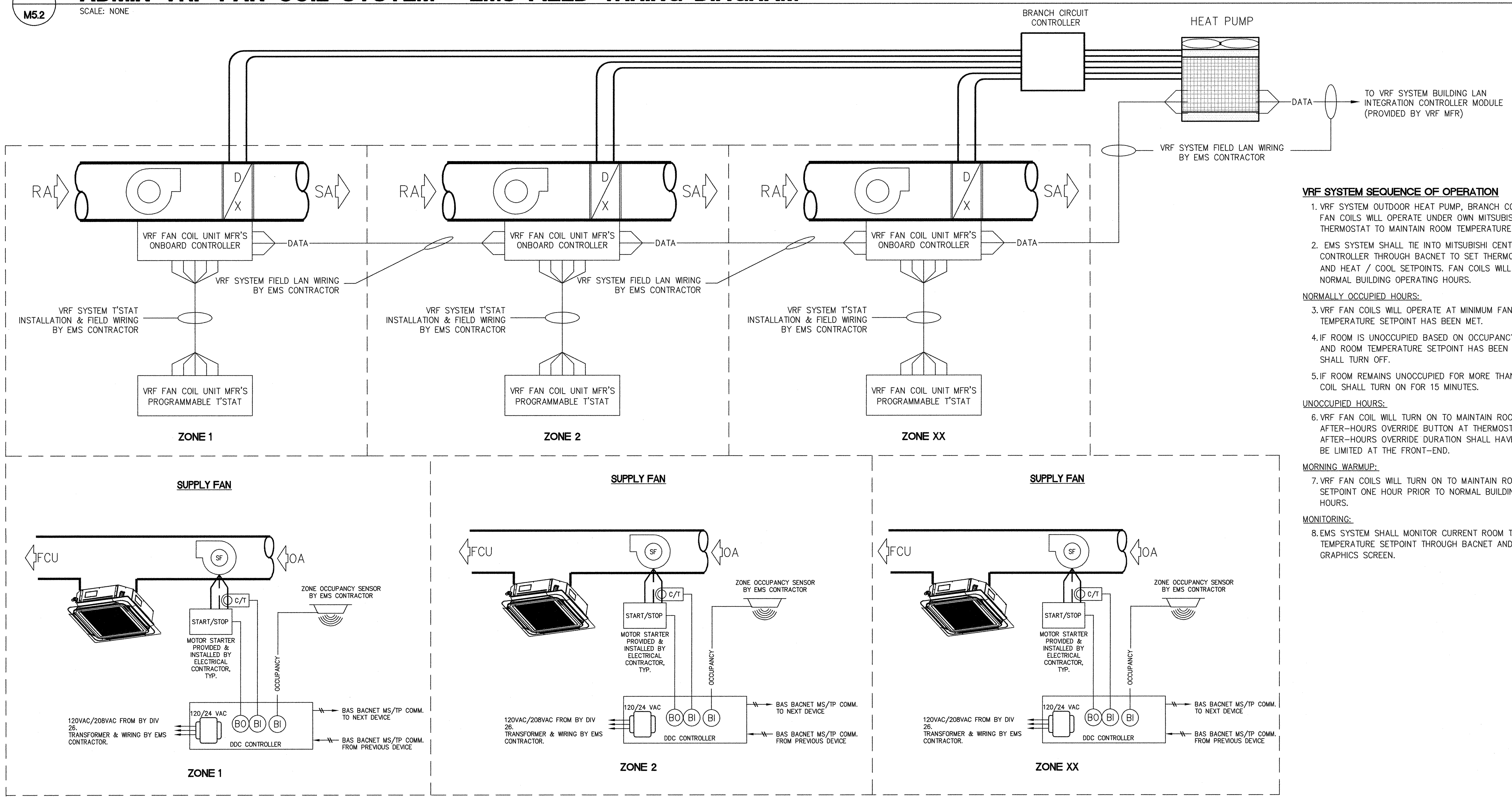
8. EMS SYSTEM WILL COMMAND SUPPLY FAN TO TURN ON ONE HOUR PRIOR TO SCHEDULED NORMAL BUILDING OPERATING HOURS.

MONITORING:

9. THE FOLLOWING CONDITIONS SHALL BE MONITORED:
   a. STATUS OF SUPPLY FAN.
   b. OCCUPANCY SENSOR STATUS

ALARMS:

9. IF THE SUPPLY FAN FAN RUNS WHILE COMMANDED BY THE EMS TO THE OFF STATE OR IF IT FAILS TO RUN WHILE COMMANDED TO THE ON STATE, AN ALARM SHALL BE DISPLAYED.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120VAC/208VAC FROM BY DIV 26. TRANSFORMER & WIRING BY EMS CONTRACTOR.
BAS BACNET MS/TP COMM. TO NEXT DEVICE
BAS BACNET MS/TP COMM. FROM PREVIOUS DEVICE
ZONE 1
ZONE 2
ZONE XX

2
M5.2

CLASSROOM VRF FAN COIL SYSTEM - EMS FIELD WIRING DIAGRAM

SCALE: NONE

VRF SYSTEM SEQUENCE OF OPERATION

1. VRF SYSTEM OUTDOOR HEAT PUMP, BRANCH CONTROLLER, AND FAN COILS WILL OPERATE UNDER OWN MITSUBISHI CONTROLS AND THERMOSTAT TO MAINTAIN ROOM TEMPERATURE SETPOINT.
2. EMS SYSTEM SHALL TIE INTO MITSUBISHI CENTRALIZED CONTROLLER THROUGH BACNET TO SET THERMOSTAT SCHEDULE AND HEAT / COOL SETPOINTS. FAN COILS WILL OPERATE DURING NORMAL BUILDING OPERATING HOURS.

NORMALLY OCCUPIED HOURS:

3. VRF FAN COILS WILL OPERATE AT MINIMUM FAN SPEED IF ROOM TEMPERATURE SETPOINT HAS BEEN MET.
4. IF ROOM IS UNOCCUPIED BASED ON OCCUPANCY SENSOR STATUS AND ROOM TEMPERATURE SETPOINT HAS BEEN MET, FAN COIL SHALL TURN OFF.
5. IF ROOM REMAINS UNOCCUPIED FOR MORE THAN ONE HOUR, FAN COIL SHALL TURN ON FOR 15 MINUTES.

UNOCCUPIED HOURS:

6. VRF FAN COIL WILL TURN ON TO MAINTAIN ROOM SETPOINT IF AFTER–HOURS OVERRIDE BUTTON AT THERMOSTAT IS PUSHED.THE AFTER–HOURS OVERRIDE DURATION SHALL HAVE THE ABILITY TO BE LIMITED AT THE FRONT–END.

MORNING WARMUP:

7. VRF FAN COILS WILL TURN ON TO MAINTAIN ROOM TEMPERATURE SETPOINT ONE HOUR PRIOR TO NORMAL BUILDING OPERATING HOURS.

MONITORING:

8. EMS SYSTEM SHALL MONITOR CURRENT ROOM TEMPERATURE AND TEMPERATURE SETPOINT THROUGH BACNET AND DISPLAY ON GRAPHICS SCREEN.

SUPPLY FAN SEQUENCE OF OPERATION

1. SUPPLY FAN WILL BE SCHEDULED SAME TIME AS ANY ZONE VRF SYSTEM. THE VRF OCCUPANCY SCHEDULE WILL BE AVAILABLE THROUGH THE BACNET INTERFACE, WHILE SUPPLY FAN WILL BE SCHEDULED THROUGH THE DDC CONTROLLER. THE SUPPLY FAN AND VRF FCs WILL OPERATE DURING NORMAL BUILDING OPERATING HOURS THROUGH EMS TIME–CLOCK.
2. SUPPLY FAN WILL NOT RUN UNLESS VRF FAN COIL IS ALSO ON.
3. DDC CONTROLLER MONITORS OCCUPANCY SENSOR STATUS OF ALL ZONES IN ADMIN BUILDING.

NORMALLY OCCUPIED HOURS:

4. SUPPLY FAN SHALL BE ON DURING SCHEDULED HOURS UNLESS CLASSROOM IS UNOCCUPIED.
5. IF CLASSROOM IS UNOCCUPIED BASED ON OCCUPANCY SENSOR STATUS DURING NORMALLY SCHEDULED HOURS, THE SUPPLY FAN WILL TURN OFF.
6. IF CLASSROOM REMAINS UNOCCUPIED DURING SCHEDULED HOURS FOR MORE THAN ONE HOUR, SUPPLY FAN SHALL CYCLE ON TO PROVIDE OUTSIDE AIR FOR 15 MINUTES.

UNOCCUPIED HOURS:

7. SUPPLY FAN SHALL BE OFF DURING SCHEDULED BUILDING UNOCCUPIED HOURS.
8. SUPPLY FAN WILL TURN ON IF AFTER–HOURS OVERRIDE BUTTON IS PUSHED AT THERMOSTAT AND STAY ON FOR DURATION OF AFTER–HOURS OVERRIDE.

PRE–OCCUPANCY PURGE:

9. EMS SYSTEM WILL COMMAND SUPPLY FAN TO TURN ON ONE HOUR PRIOR TO SCHEDULED NORMAL BUILDING OPERATING HOURS.

MONITORING:

10. THE FOLLOWING CONDITIONS SHALL BE MONITORED:
    a. STATUS OF SUPPLY FAN.
    b. OCCUPANCY SENSOR STATUS

ALARMS:

9. IF THE SUPPLY FAN FAN RUNS WHILE COMMANDED BY THE EMS TO THE OFF STATE OR IF IT FAILS TO RUN WHILE COMMANDED TO THE ON STATE, AN ALARM SHALL BE DISPLAYED.

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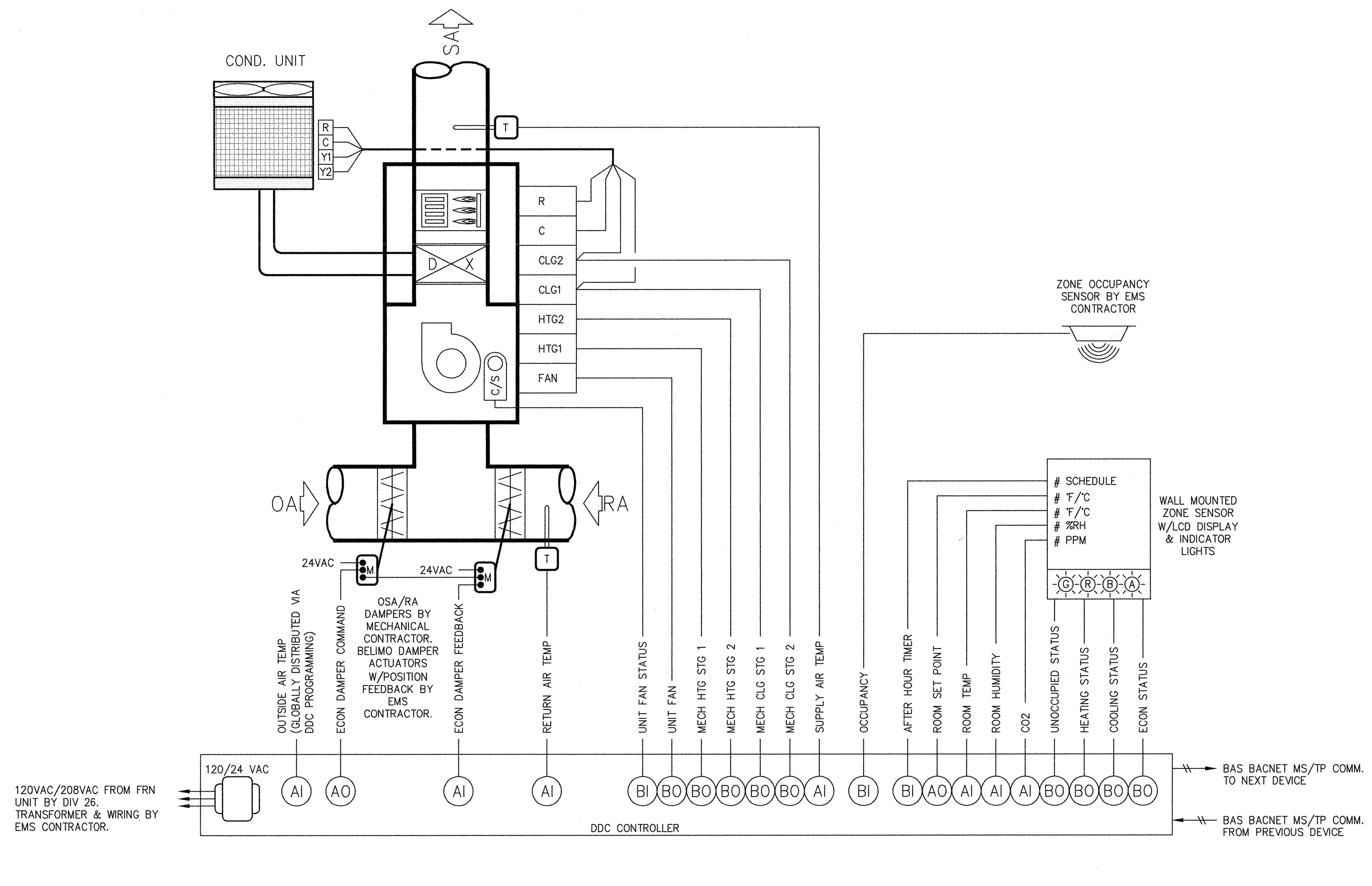

1
M5.3

FURNACE WITH SPLIT SYSTEM DX COOLING WITH ECONOMIZER, DEMAND CONTROL VENTILATION AND OCCUPANCY MONITORING

SCALE: NONE

FURNACE WITH DX COOLING, ECONOMIZER, DVC, AND ZONE OCCUPANCY MONITORING SEQUENCE OF OPERATION

1. SYSTEM OVERVIEW

A. EACH FURNACE AND CONDENSING UNIT UNIT WILL BE DIRECTLY CONTROLLED BY ITS OWN DEDICATED EMS (ENERGY MANAGEMENT SYSTEM) UNITARY CONTROLLER.

B. EMS UNITARY CONTROLLER WILL BE CONNECTED TO A WALL MOUNTED ELECTRONIC ZONE TEMPERATURE SENSOR WITH INTEGRAL CO2 SENSOR.

C. ELECTRONIC ZONE TEMPERATURE SENSOR SHALL HAVE A TOUCH SCREEN LCD INTERFACE WHICH INCLUDES: 1) DIGITAL PUSHBUTTONS FOR WARMER/COOLER SETPOINT CONTROL; 2) VISUAL DISPLAY OF ROOM TEMPERATURE, ROOM HUMIDITY, ROOM CO2 AND AMBIENT OSA TEMPERATURE; AND 3) DIGITAL PUSHBUTTON AFTER-HOURS OVERRIDE TIMER CONTROL, WITH USER ADJUSTABLE DURATION. THE AFTER-HOURS OVERRIDE DURATION SHALL HAVE THE ABILITY TO BE LIMITED FROM THE FRONT-END.

2. OCCUPANCY/VACANCY MONITORING

A. EMS CONTRACTOR SHALL PROVIDE ZONE OCCUPANCY SENSOR FOR OCCUPANCY MONITORING.

3. UNIT FAN OPERATION

A. WHEN THE ZONE IS IN OCCUPIED MODE OR IN AFTERHOURS MODE, THE LEAD FAN SHALL RUN CONTINUOUSLY, UNLESS VACANT MODE HAS BEEN TRIGGERED. LEAD/LAG ON THE FANS WILL ALTERNATE ON WEEKLY BASIS TO EQUALIZE RUNTIME. IF THE LEAD SUPPLY FAN RUNS WHILE COMMANDED BY THE EMS TO THE OFF STATE OR IF IT FAILS TO RUN WHILE COMMANDED TO THE ON STATE, AN ALARM SHALL BE DISPLAYED AND ANNUNCIATED AT THE OPERATOR'S CONSOLE AND LAG SUPPLY FAN WILL BE ENABLED.

B. DURING THE UNOCCUPIED MODE AS DETERMINED BY EMS TIME SCHEDULE, THE UNIT FAN CYCLES WITH DEMAND AND THE TEMPERATURE IS CONTROLLED BY THE UNOCCUPIED SPACE TEMPERATURE HEATING AND COOLING SETPOINTS.

4. MINIMUM OUTDOOR AIR VENTILATION

A. DURING OCCUPIED MODE OR AFTERHOURS MODE, THE ECONOMIZER DAMPER SHALL BE COMMANDED BY THE EMS UNITARY CONTROLLER TO MAINTAIN A POSITION WHICH SATISFIES THE MINIMUM OUTDOOR AIR VENTILATION REQUIREMENTS FOR THE ZONE. DAMPER POSITION(S) DETERMINED BY AIR BALANCING CONTRACTOR.

5. DEMAND CONTROL VENTILATION

A. EMS UNITARY CONTROLLER WILL BE CONNECTED TO A WALL MOUNTED CO2 SENSOR TO MONITOR ZONE CO2 CONCENTRATION.

B. DURING OCCUPIED MODE OR AFTERHOURS MODE, THE EMS UNITARY CONTROLLER SHALL RESET THE OUTSIDE AIR DAMPER MINIMUM POSITION TO MAINTAIN THE CO2 CONCENTRATION BELOW 1,000 PPM.

6. AUTOMATIC DEMAND REDUCTION CONTROLS

A. EMS SHALL BE PROGRAMMED WITH CAPABILITY TO IMPLEMENT CENTRALIZED DEMAND SHED FOR ALL NON-CRITICAL ZONES UPON CALL FOR AUTOMATIC DEMAND REDUCTION. CRITICAL ZONES SHALL NOT BE IMPACTED BY DEMAND SHED CONSERVATION MEASURES.

7. VACANT MODE CONTROL

A. WHEN THE ZONE HAS BEEN SCHEDULED FOR OCCUPANCY FOR AT LEAST ONE HOUR AND THE OCCUPANCY SENSOR HAS CONFIRMED THAT ZONE HAS BEEN VACANT FOR 5 MINUTES (ADJUSTABLE: MAXIMUM 30 MINUTES), ZONE SHALL BE PLACED INTO VACANT MODE.

B. RESET COOLING AND HEATING SETPOINTS UP AND DOWN BY 2°F (ADJUSTABLE) OR MORE.

C. MINIMUM OUTDOOR AIR VENTILATION REQUIREMENTS IN THE ZONE NEED ONLY BE MAINTAINED 15 MINUTES OUT OF EVERY 60 MINUTES WHILE THE ZONE IS IN VACANT MODE.

D. UPON DETECTION OF OCCUPANCY, VACANT MODE SHALL BE CLEARED.

8. ZONE PRE-OCCUPANCY PURGE

A. THE EMS SHALL SCHEDULE THE ZONE TO BE IN OCCUPIED MODE ONE HOUR PRIOR TO THE ACTUAL TIME OF ANTICIPATED OCCUPANCY.

9. ECONOMIZER CONTROL

A. EMS UNITARY CONTROLLER SHALL BE DIRECTLY CONNECTED TO DISCHARGE AIR AND RETURN AIR TEMPERATURE SENSORS. GLOBAL DDC PROGRAMMING SHALL BE USED TO BROADCAST CENTRALIZED AMBIENT OUTSIDE AIR TEMPERATURE.

B. EMS UNITARY CONTROLLER SHALL ALSO BE DIRECTLY CONNECTED TO ECONOMIZER (OUTSIDE/RETURN AIR) DAMPER ACTUATOR, INCLUDING POSITION FEEDBACK SIGNAL.

C. SEE MINIMUM OUTDOOR AIR VENTILATION FOR OUTSIDE AIR DAMPER MIN CFM SETPOINT.

D. THE EMS UNITARY CONTROLLER SHALL CONTINUOUSLY COMPARE THE CURRENT OSA TEMPERATURE TO THE ESTABLISHED AIR ECONOMIZER HIGH LIMIT SHUT OFF (ECON LOCK OUT) TEMPERATURE SET POINT (ADJUSTABLE) AND RETURN AIR TEMPERATURE.

E. WHEN CURRENT OSA TEMP IS LESS THAN OR EQUAL TO ECON LOCK OUT TEMP AND THE RETURN AIR TEMPERATURE, EMS UNITARY CONTROLLER SHALL USE THE OUTSIDE AIR FOR FREE COOLING.

F. THE ECONOMIZER WILL REMAIN IN USE DURING MECHANICAL COOLING AS LONG AS DISCHARGE AIR TEMPERATURE REMAINS ABOVE 45°F (ADJUSTABLE) AND CURRENT OSA TEMP IS LESS THAN OR EQUAL TO ECON LOCK OUT TEMP AND RETURN AIR TEMP.

G. WHEN OSA TEMP IS ABOVE ECON LOCK OUT TEMP OR RETURN AIR TEMP, ECONOMIZER WILL BE DEACTIVATED AND ECONOMIZER SHALL BE COMMANDED TO MIN CFM SETPOINT.

H. ECONOMIZER WILL BE COMMANDED TO MIN CFM SETPOINT WHEN UNIT IS IN HEATING MODE.

I. WHEN UNIT FAN IS NOT OPERATING, OUTSIDE AIR DAMPER SHALL BE COMMANDED CLOSED.

10. HEATING OPERATION

A. THE CONTROLLER COMPARES THE HEATING SETPOINT WITH THE SPACE TEMPERATURE AND DETERMINES A NEED-HEATING CONTROL SIGNAL TO STAGE A GAS REGULATING VALVE ON THE UNIT.

B. ECONOMIZER TO BE COMMANDED TO MIN OUTSIDE AIR CFM SETPOINT AND MECHANICAL COOLING TO BE LOCKED OUT DURING HEATING MODE.

C. IF THE LEAD FURNACE IS NOT ABLE TO SATISFY THE HEATING SETPOINT, LAG FURNACE WILL BE TURNED ON TO SATISFY HEATING SETPOINT.

11. COOLING OPERATION

A. THE CONTROLLER COMPARES THE COOLING SETPOINT WITH THE SPACE TEMPERATURE AND DETERMINES A NEED-COOLING SIGNAL.

B. THE FIRST STAGE OF COOLING WILL ENABLE THE ECONOMIZER TO PROVIDE FREE COOLING FOR AS LONG AS POSSIBLE.

C. THE SECOND STAGE WILL ENABLE THE COMPRESSOR(S) TO MAINTAIN THE ROOM SET POINT.

D. MECHANICAL HEATING TO BE LOCKED OUT DURING COOLING MODE.

E. IF THE LEAD FURNACE IS NOT ABLE TO SATISFY THE COOLING SETPOINT, LAG FURNACE WILL BE TURNED ON TO SATISFY COOLING SETPOINT.

12. FAULT DETECTION DIAGNOSTICS

A. THE EMS DDC CONTROLLER SHALL MONITOR THE FOLLOWING ECONOMIZER ACTUATOR FAULT DETECTION DIAGNOSTIC CONDITIONS AND BROADCAST RESULTS VIA EMS NETWORK:

i. TEMPERATURE SENSOR FAILURE/FAULT

ii. ECONOMIZER NOT ECONOMIZING WHEN ENABLED

iii. ECONOMIZER ECONOMIZING WHEN DISABLED

iv. ECONOMIZER DAMPER MODULATION FAILURE

v. EXCESS OUTDOOR AIR

13. MONITORING – THE FOLLOWING CONDITIONS SHALL BE MONITORED AND DISPLAYED AT EMS OPERATOR WORKSTATION/GRAPHICAL USER INTERFACE:

A. SUPPLY AIR TEMPERATURE.

B. ROOM TEMPERATURE.

C. ROOM HUMIDITY.

D. ROOM CO2 CONCENTRATION.

E. ROOM OCCUPANCY STATUS.

F. CURRENT MODE (HEATING/COOLING/FAN).

G. SUPPLY AIR TEMPERATURE ATTAINED LAST TIME UNIT WAS IN HEATING.

H. SUPPLY AIR TEMPERATURE ATTAINED LAST TIME UNIT WAS IN COOLING.

I. CURRENT COMMAND STATUS OF FAN, ECONOMIZER, COMPRESSOR AND GAS VALVE.

J. RUN TIME METERS ON FAN, COMPRESSOR, AND HEAT.

K. FAN STATUS THRU CURRENT SWITCH.

L. ECONOMIZER ACTUATOR FEEDBACK STATUS.

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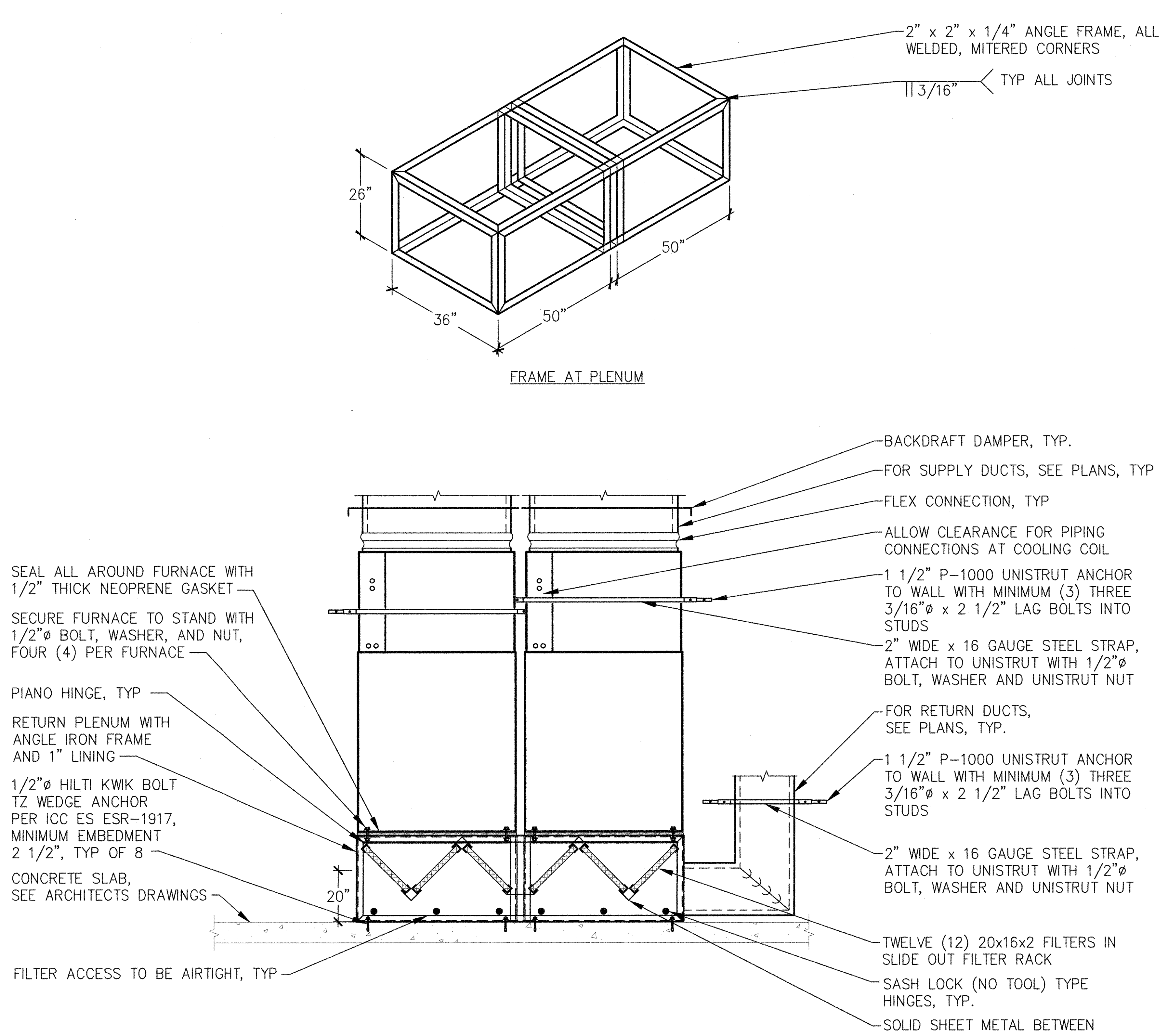
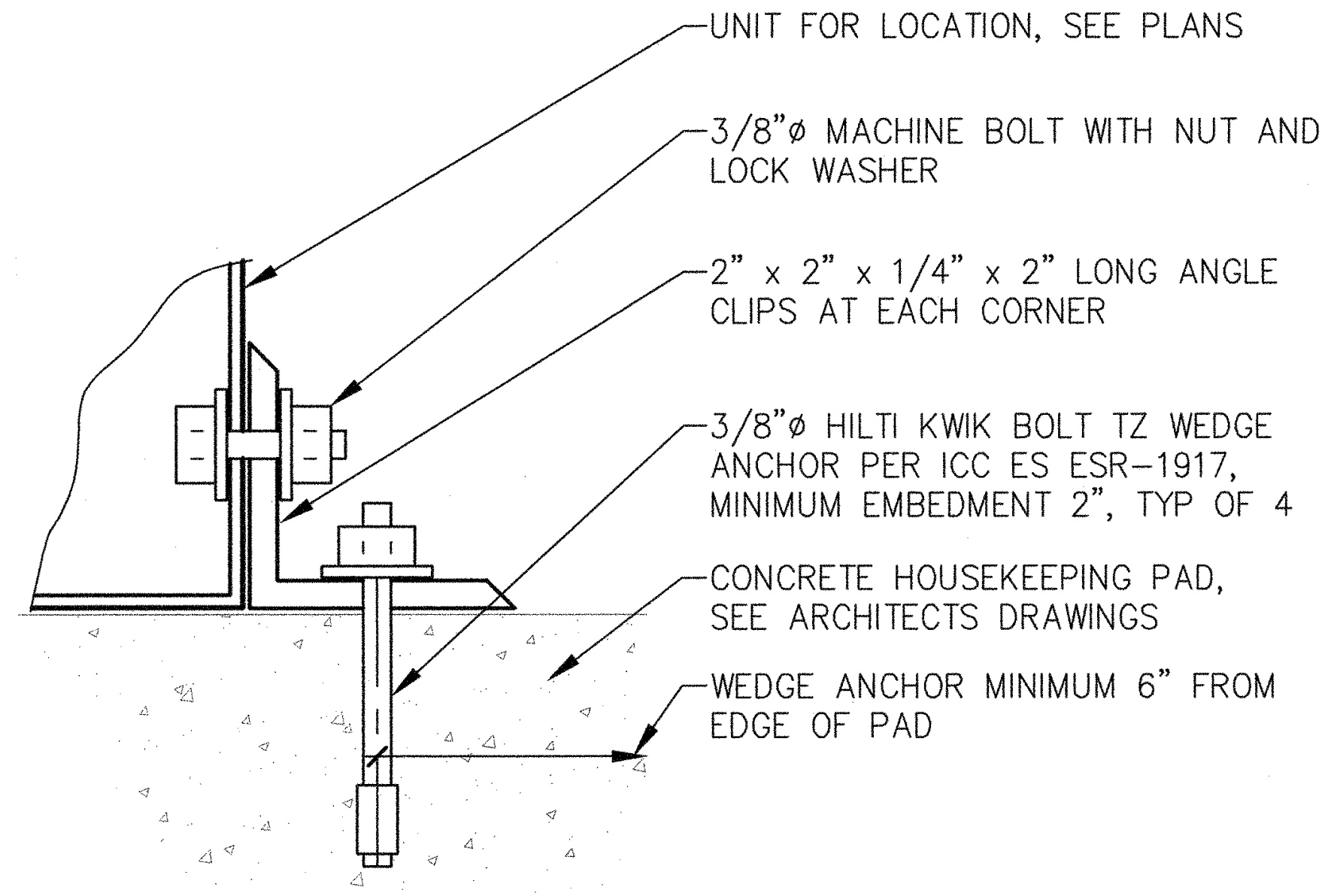

2" x 2" x 1/4" ANGLE FRAME, ALL WELDED, MITERED CORNERS
3/16"
TYP ALL JOINTS
26"
36"
50"
50"
FRAME AT PLENUM
BACKDRAFT DAMPER, TYP.
FOR SUPPLY DUCTS, SEE PLANS, TYP
FLEX CONNECTION, TYP
ALLOW CLEARANCE FOR PIPING CONNECTIONS AT COOLING COIL
1 1/2" P-1000 UNISTRUT ANCHOR TO WALL WITH MINIMUM (3) THREE 3/16"ø x 2 1/2" LAG BOLTS INTO STUDS
2" WIDE x 16 GAUGE STEEL STRAP, ATTACH TO UNISTRUT WITH 1/2"ø BOLT, WASHER AND UNISTRUT NUT
FOR RETURN DUCTS, SEE PLANS, TYP.
1 1/2" P-1000 UNISTRUT ANCHOR TO WALL WITH MINIMUM (3) THREE 3/16"ø x 2 1/2" LAG BOLTS INTO STUDS
2" WIDE x 16 GAUGE STEEL STRAP, ATTACH TO UNISTRUT WITH 1/2"ø BOLT, WASHER AND UNISTRUT NUT
TWELVE (12) 20x16x2 FILTERS IN SLIDE OUT FILTER RACK
SASH LOCK (NO TOOL) TYPE HINGES, TYP.
SOLID SHEET METAL BETWEEN END OF FILTERS AND PLENUM
SEAL ALL AROUND FURNACE WITH 1/2" THICK NEOPRENE GASKET
SECURE FURNACE TO STAND WITH 1/2"ø BOLT, WASHER, AND NUT, FOUR (4) PER FURNACE
PIANO HINGE, TYP
RETURN PLENUM WITH ANGLE IRON FRAME AND 1" LINING
1/2"ø HILTI KWIK BOLT TZ WEDGE ANCHOR PER ICC ES ESR-1917, MINIMUM EMBEDMENT 2 1/2", TYP OF 8
CONCRETE SLAB, SEE ARCHITECTS DRAWINGS
20"
FILTER ACCESS TO BE AIRTIGHT, TYP

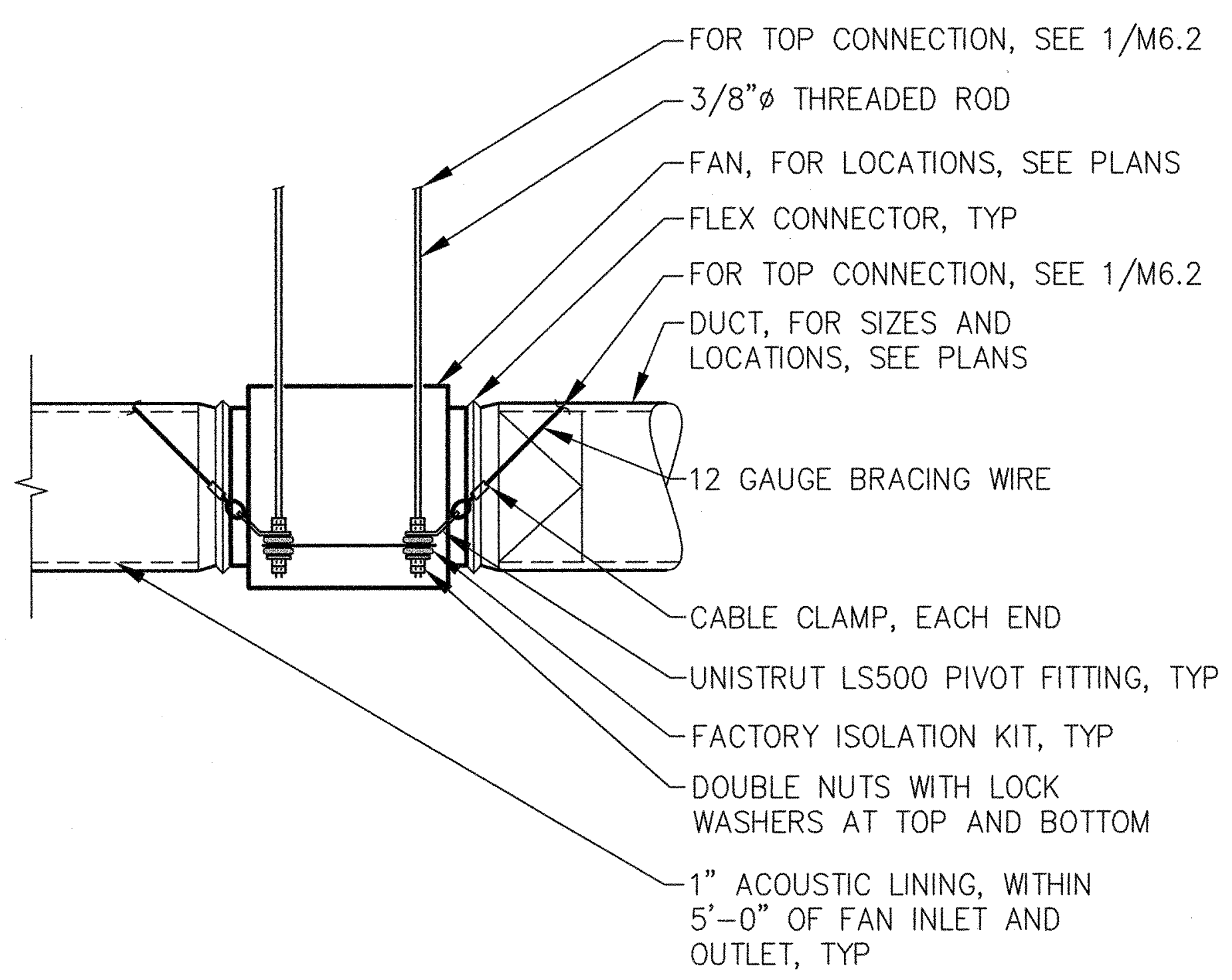
13 M6.1 FURNACE AND COIL MOUNTING

NO SCALE


UNIT FOR LOCATION, SEE PLANS
3/8"ø MACHINE BOLT WITH NUT AND LOCK WASHER
2" x 2" x 1/4" x 2" LONG ANGLE CLIPS AT EACH CORNER
3/8"ø HILTI KWIK BOLT TZ WEDGE ANCHOR PER ICC ES ESR-1917, MINIMUM EMBEDMENT 2", TYP OF 4
CONCRETE HOUSEKEEPING PAD, SEE ARCHITECTS DRAWINGS
WEDGE ANCHOR MINIMUM 6" FROM EDGE OF PAD

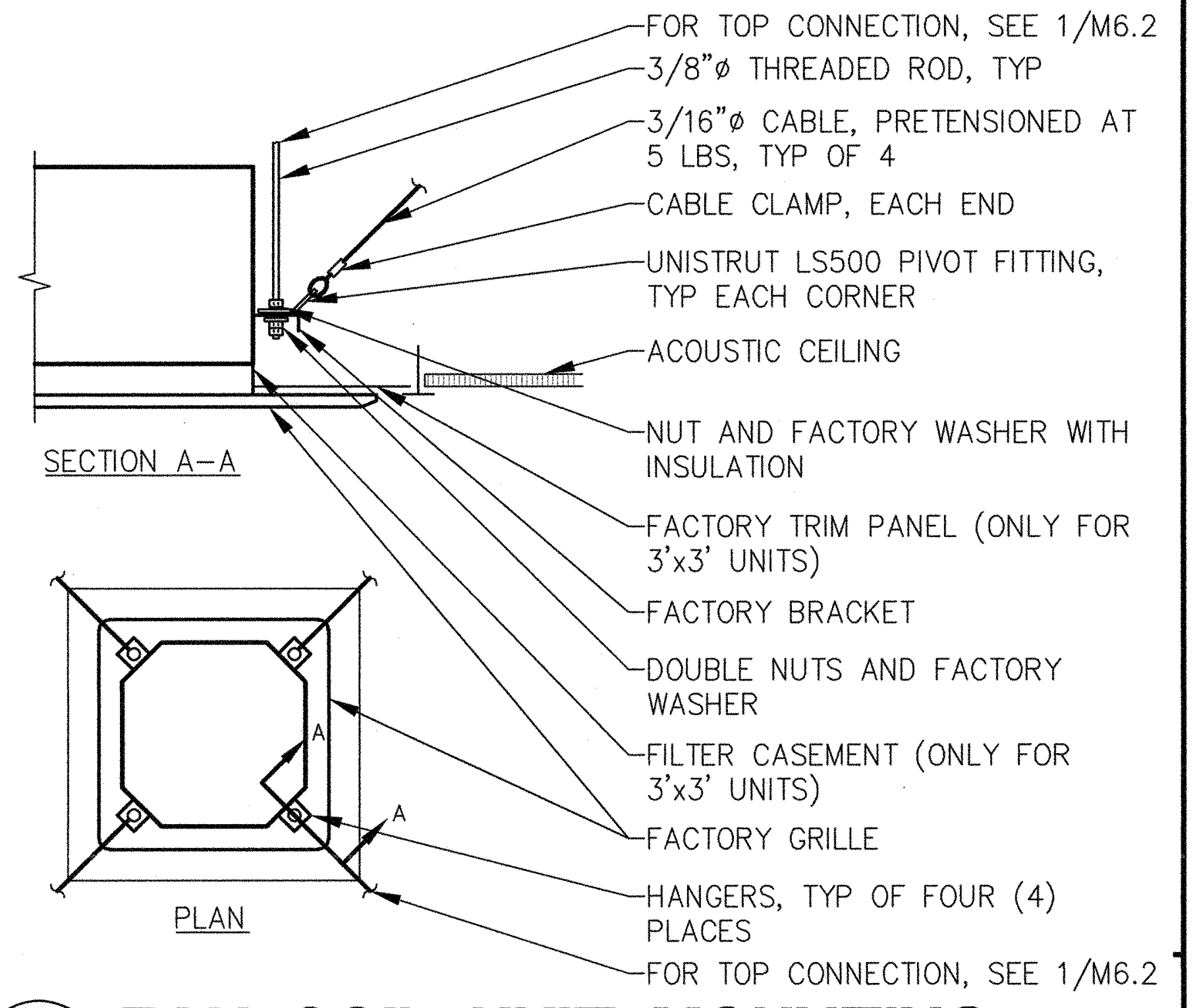
9 M6.1 CONDENSING UNIT MOUNTING

NO SCALE


FOR TOP CONNECTION, SEE 1/M6.2
3/8"ø THREADED ROD
FAN, FOR LOCATIONS, SEE PLANS
FLEX CONNECTOR, TYP
FOR TOP CONNECTION, SEE 1/M6.2
DUCT, FOR SIZES AND LOCATIONS, SEE PLANS
12 GAUGE BRACING WIRE
CABLE CLAMP, EACH END
UNISTRUT LS500 PIVOT FITTING, TYP
FACTORY ISOLATION KIT, TYP
DOUBLE NUTS WITH LOCK WASHERS AT TOP AND BOTTOM
1" ACOUSTIC LINING, WITHIN 5'-0" OF FAN INLET AND OUTLET, TYP

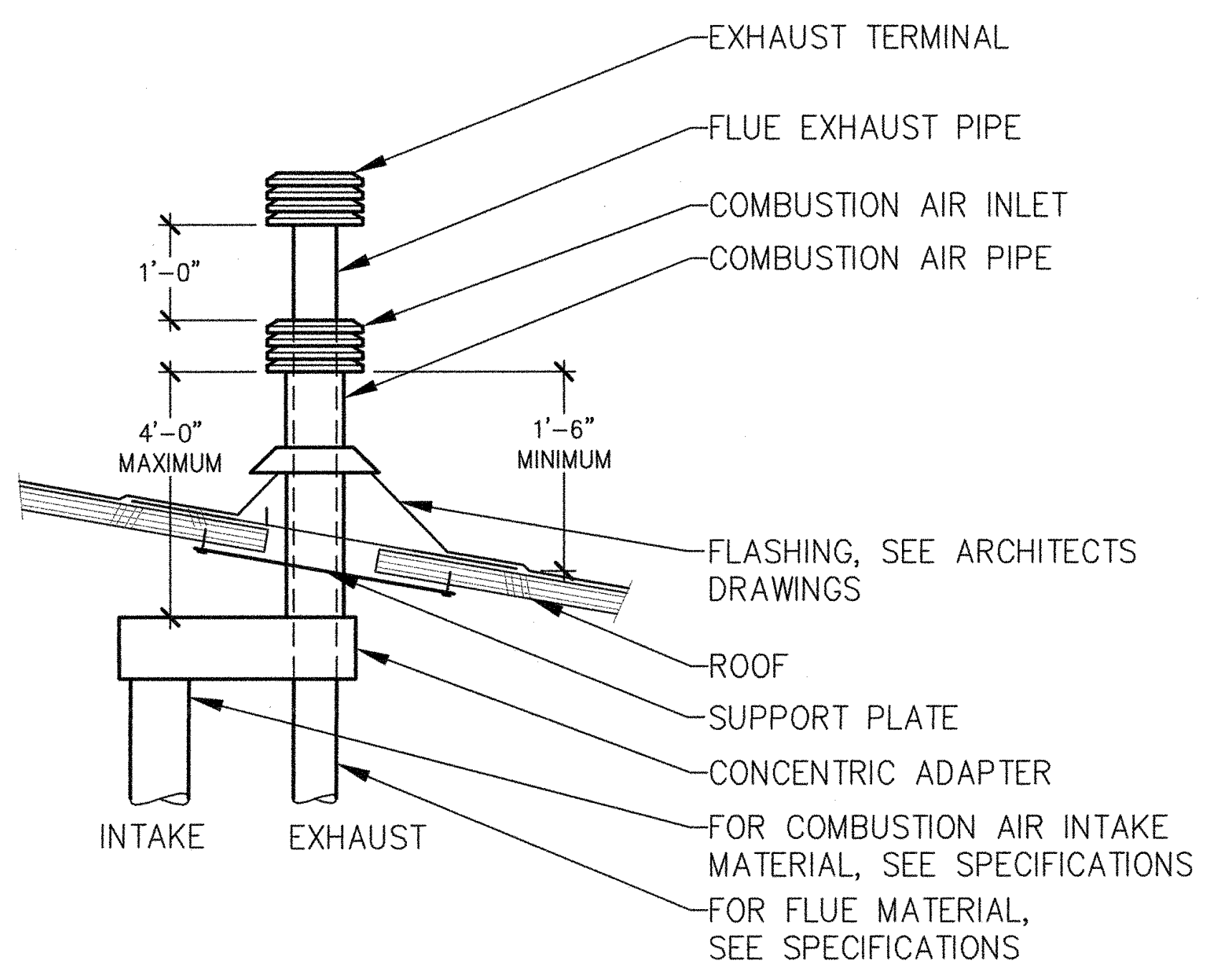
5 M6.1 INLINE FAN MOUNTING

NO SCALE


FOR TOP CONNECTION, SEE 1/M6.2
3/8"ø THREADED ROD, TYP
3/16"ø CABLE, PRETENSIONED AT 5 LBS, TYP OF 4
CABLE CLAMP, EACH END
UNISTRUT LS500 PIVOT FITTING, TYP EACH CORNER
ACOUSTIC CEILING
SECTION A-A
NUT AND FACTORY WASHER WITH INSULATION
FACTORY TRIM PANEL (ONLY FOR 3'x3' UNITS)
FACTORY BRACKET
DOUBLE NUTS AND FACTORY WASHER
FILTER CASEMENT (ONLY FOR 3'x3' UNITS)
A
A
FACTORY GRILLE
PLAN
HANGERS, TYP OF FOUR (4) PLACES
FOR TOP CONNECTION, SEE 1/M6.2

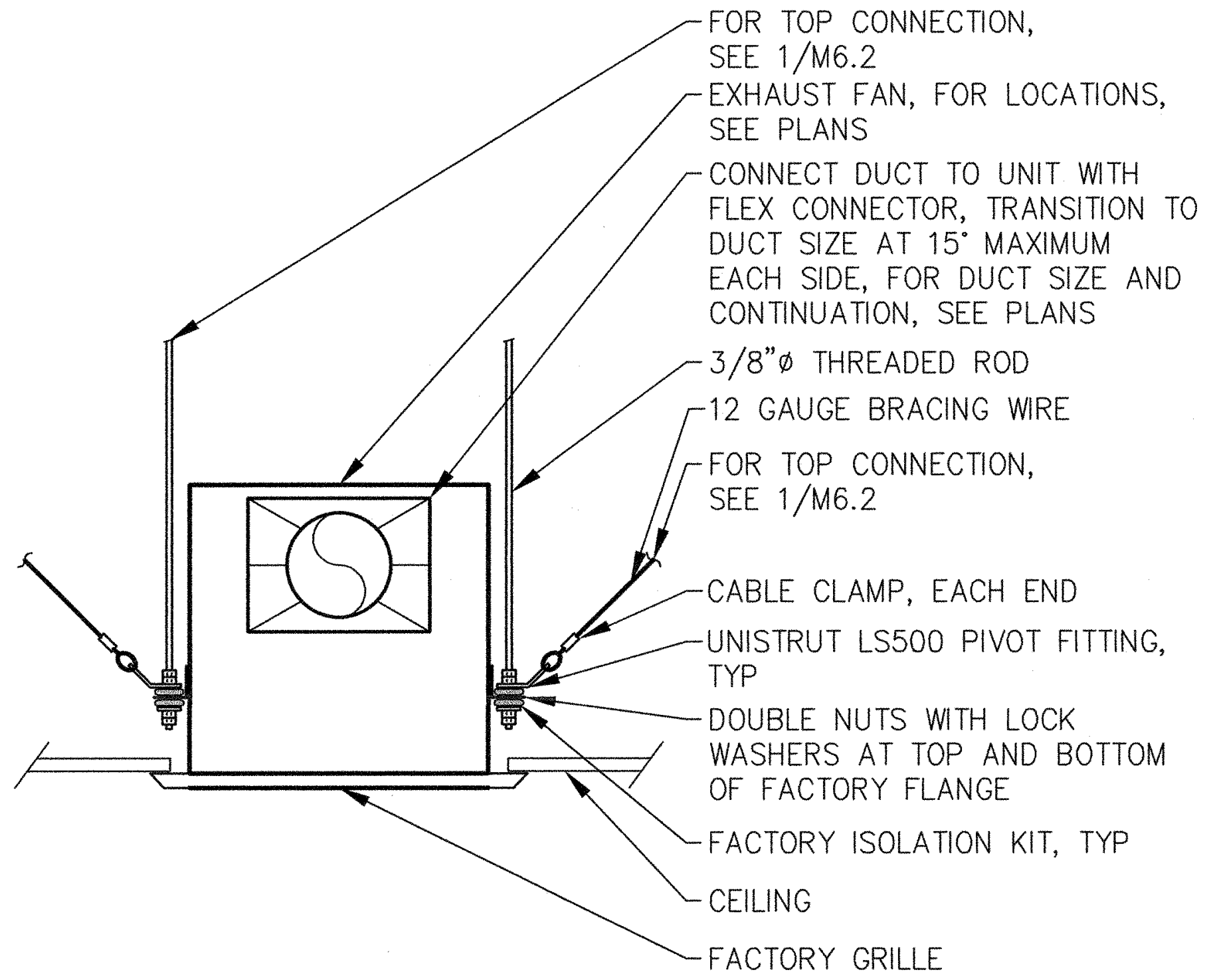
1 M6.1 FAN COIL UNIT MOUNTING

NO SCALE



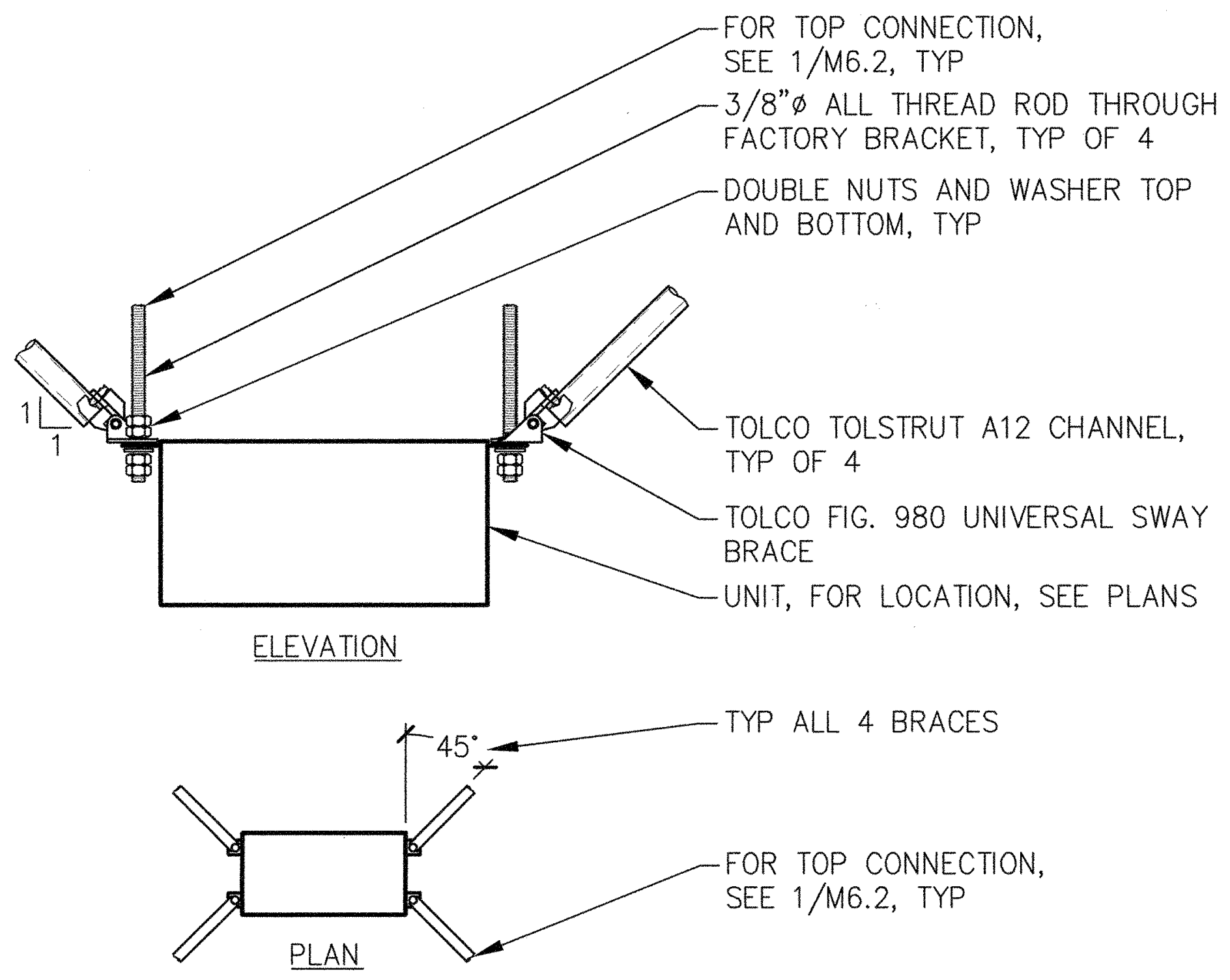
10 M6.1 CONCENTRIC VENT THROUGH ROOF

NO SCALE


FOR TOP CONNECTION, SEE 1/M6.2
EXHAUST FAN, FOR LOCATIONS, SEE PLANS
CONNECT DUCT TO UNIT WITH FLEX CONNECTOR, TRANSITION TO DUCT SIZE AT 15° MAXIMUM EACH SIDE, FOR DUCT SIZE AND CONTINUATION, SEE PLANS
3/8"ø THREADED ROD
12 GAUGE BRACING WIRE
FOR TOP CONNECTION, SEE 1/M6.2
CABLE CLAMP, EACH END
UNISTRUT LS500 PIVOT FITTING, TYP
DOUBLE NUTS WITH LOCK WASHERS AT TOP AND BOTTOM OF FACTORY FLANGE
FACTORY ISOLATION KIT, TYP
CEILING
FACTORY GRILLE

6 M6.1 CEILING MOUNTED FAN

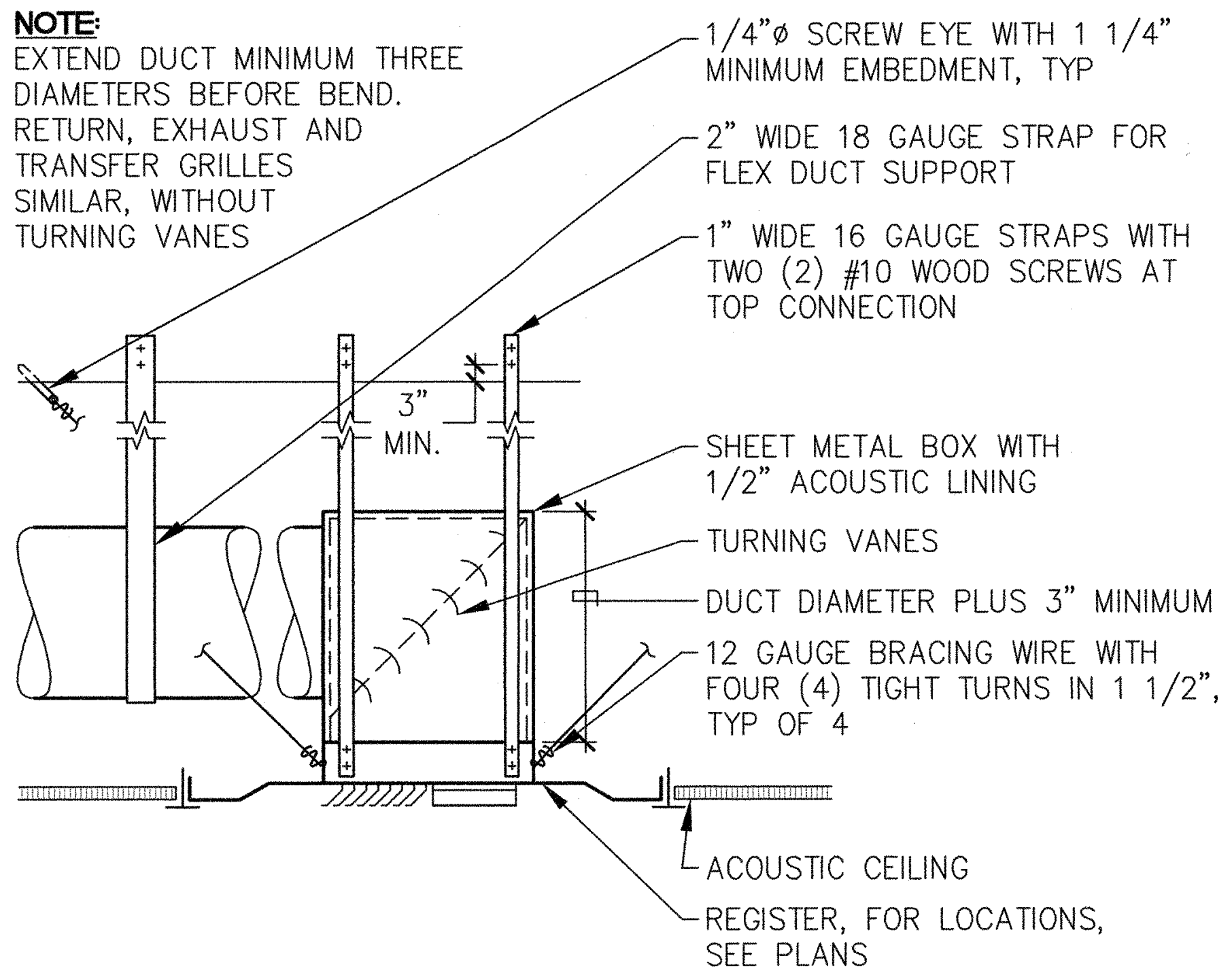
NO SCALE


FOR TOP CONNECTION, SEE 1/M6.2, TYP
3/8"ø ALL THREAD ROD THROUGH FACTORY BRACKET, TYP OF 4
DOUBLE NUTS AND WASHER TOP AND BOTTOM, TYP
1
1
TOLCO TOLSTRUT A12 CHANNEL, TYP OF 4
TOLCO FIG. 980 UNIVERSAL SWAY BRACE
UNIT, FOR LOCATION, SEE PLANS
ELEVATION
45°
TYP ALL 4 BRACES
FOR TOP CONNECTION, SEE 1/M6.2, TYP
PLAN

2 M6.1 CONTROLLER MOUNTING

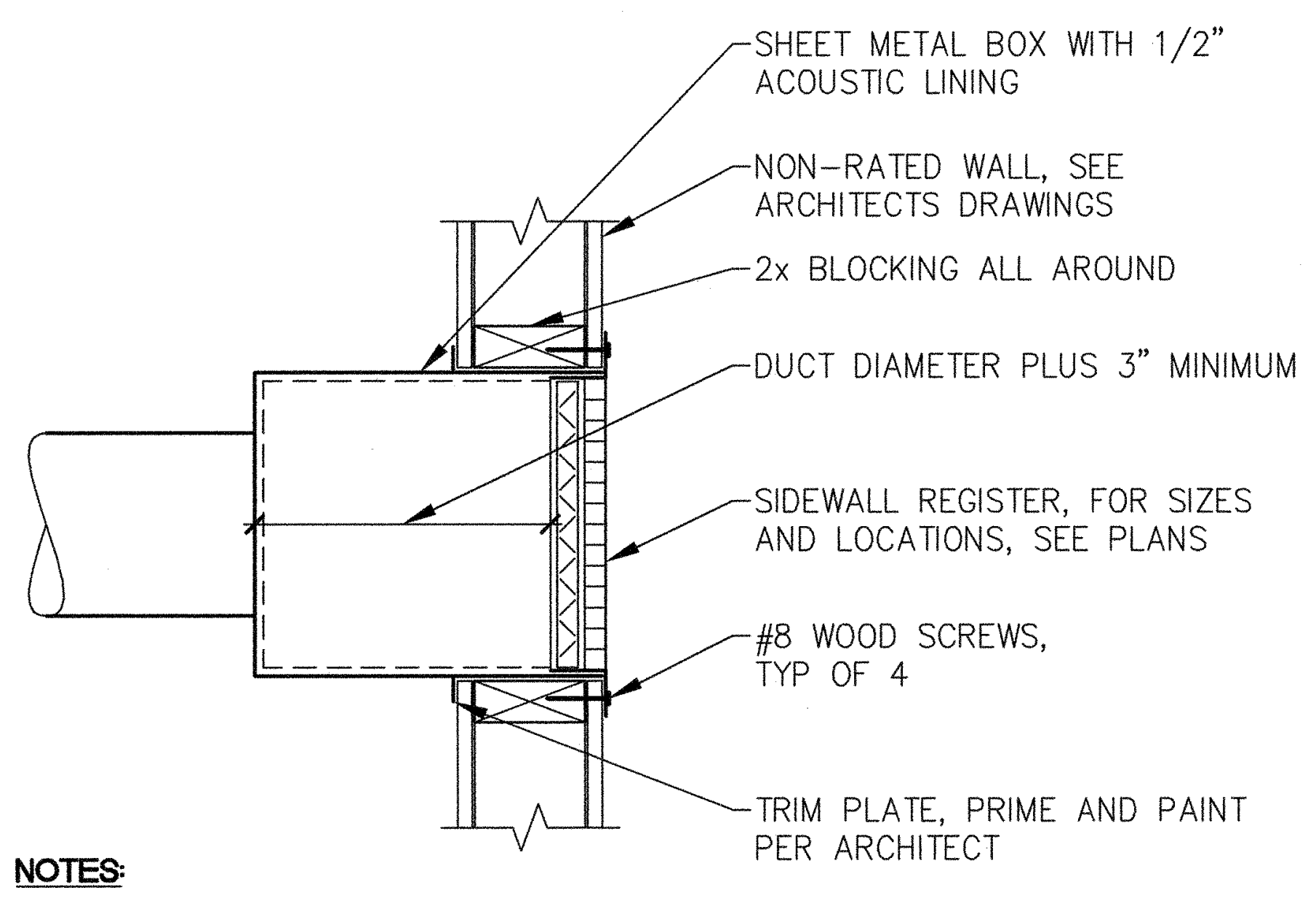
NO SCALE

NOTE:
EXTEND DUCT MINIMUM THREE DIAMETERS BEFORE BEND. RETURN, EXHAUST AND TRANSFER GRILLES SIMILAR, WITHOUT TURNING VANES


1/4"ø SCREW EYE WITH 1 1/4" MINIMUM EMBEDMENT, TYP
2" WIDE 18 GAUGE STRAP FOR FLEX DUCT SUPPORT
1" WIDE 16 GAUGE STRAPS WITH TWO (2) #10 WOOD SCREWS AT TOP CONNECTION
3" MIN.
SHEET METAL BOX WITH 1/2" ACOUSTIC LINING
TURNING VANES
DUCT DIAMETER PLUS 3" MINIMUM
12 GAUGE BRACING WIRE WITH FOUR (4) TIGHT TURNS IN 1 1/2", TYP OF 4
ACOUSTIC CEILING
REGISTER, FOR LOCATIONS, SEE PLANS

16 M6.1 DIFFUSER MOUNTING T-BAR CEILING

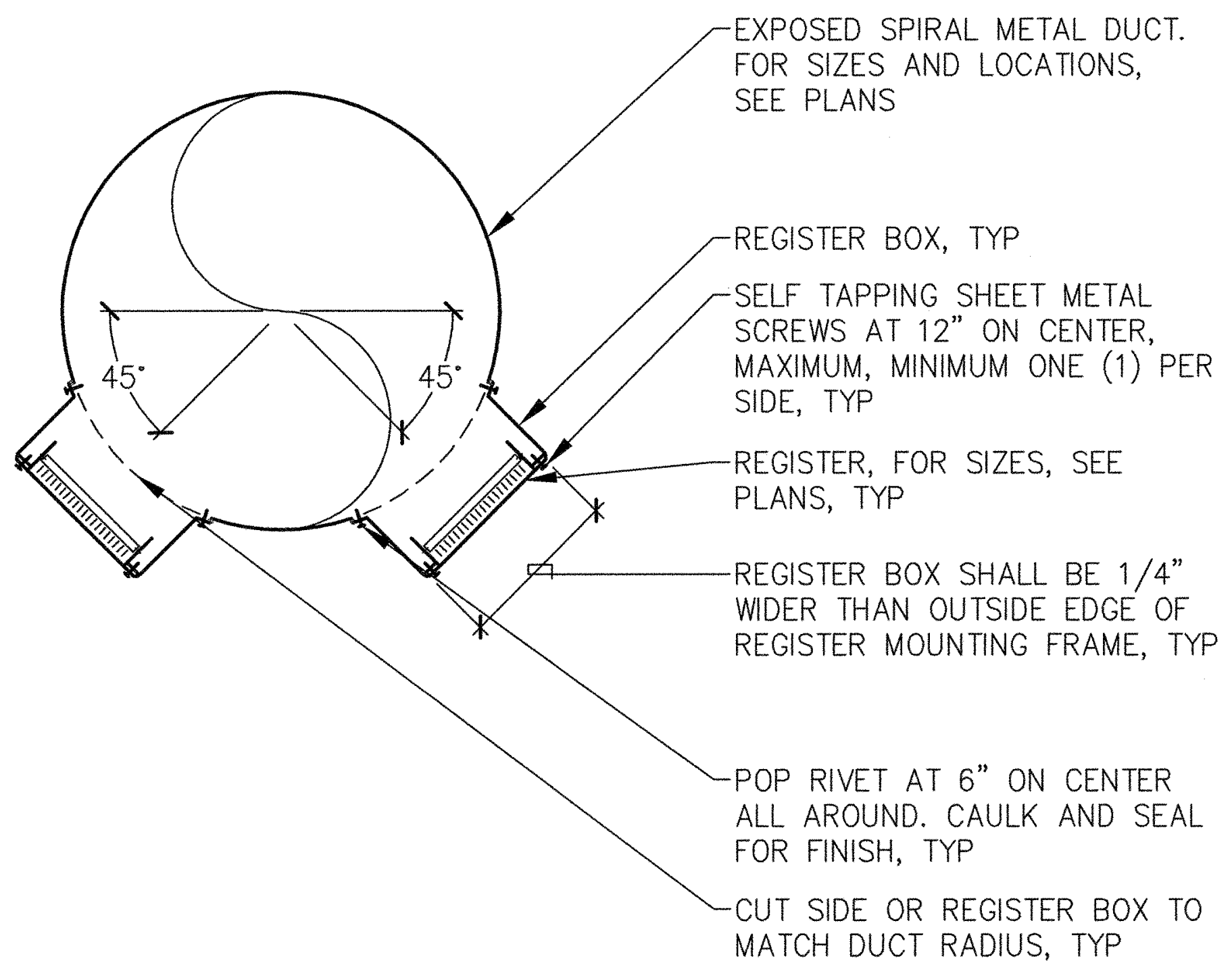
NO SCALE


SHEET METAL BOX WITH 1/2" ACOUSTIC LINING
NON-RATED WALL, SEE ARCHITECTS DRAWINGS
2x BLOCKING ALL AROUND
DUCT DIAMETER PLUS 3" MINIMUM
SIDEWALL REGISTER, FOR SIZES AND LOCATIONS, SEE PLANS
#8 WOOD SCREWS, TYP OF 4
TRIM PLATE, PRIME AND PAINT PER ARCHITECT

NOTES:
1. SUPPLY, EXHAUST AND TRANSFER GRILLES SIMILAR.
2. EXTEND DUCT MINIMUM THREE DIAMETERS BEFORE BEND.

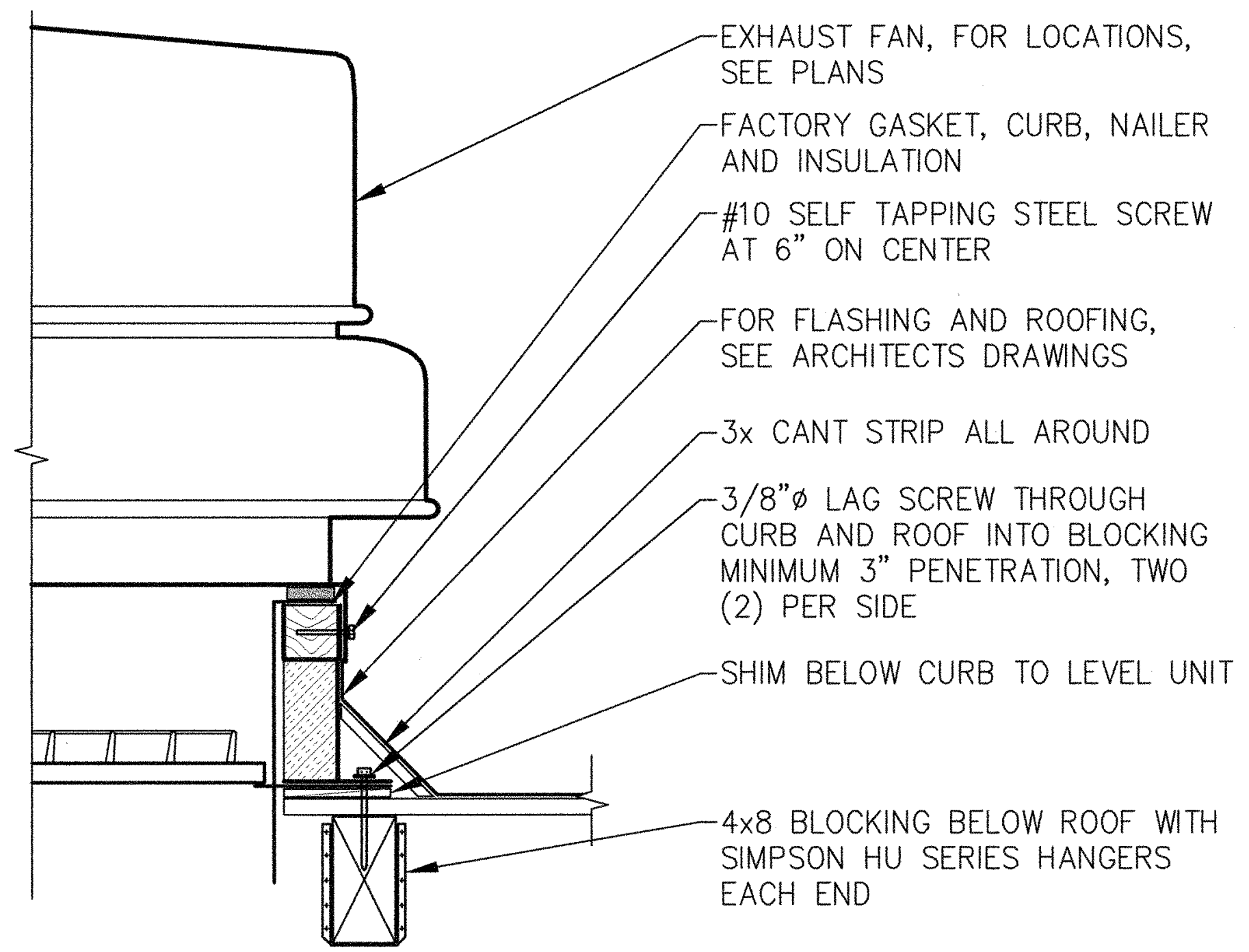
14 M6.1 SIDEWALL MOUNTING

NO SCALE


EXPOSED SPIRAL METAL DUCT. FOR SIZES AND LOCATIONS, SEE PLANS
45°
45°
REGISTER BOX, TYP
SELF TAPPING SHEET METAL SCREWS AT 12" ON CENTER, MAXIMUM, MINIMUM ONE (1) PER SIDE, TYP
REGISTER, FOR SIZES, SEE PLANS, TYP
REGISTER BOX SHALL BE 1/4" WIDER THAN OUTSIDE EDGE OF REGISTER MOUNTING FRAME, TYP
POP RIVET AT 6" ON CENTER ALL AROUND. CAULK AND SEAL FOR FINISH, TYP
CUT SIDE OR REGISTER BOX TO MATCH DUCT RADIUS, TYP

11 M6.1 DUCT MOUNTED REGISTER

NO SCALE


EXHAUST FAN, FOR LOCATIONS, SEE PLANS
FACTORY GASKET, CURB, NAILER AND INSULATION
#10 SELF TAPPING STEEL SCREW AT 6" ON CENTER
FOR FLASHING AND ROOFING, SEE ARCHITECTS DRAWINGS
3x CANT STRIP ALL AROUND
3/8"ø LAG SCREW THROUGH CURB AND ROOF INTO BLOCKING MINIMUM 3" PENETRATION, TWO (2) PER SIDE
SHIM BELOW CURB TO LEVEL UNIT
4x8 BLOCKING BELOW ROOF WITH SIMPSON HU SERIES HANGERS EACH END

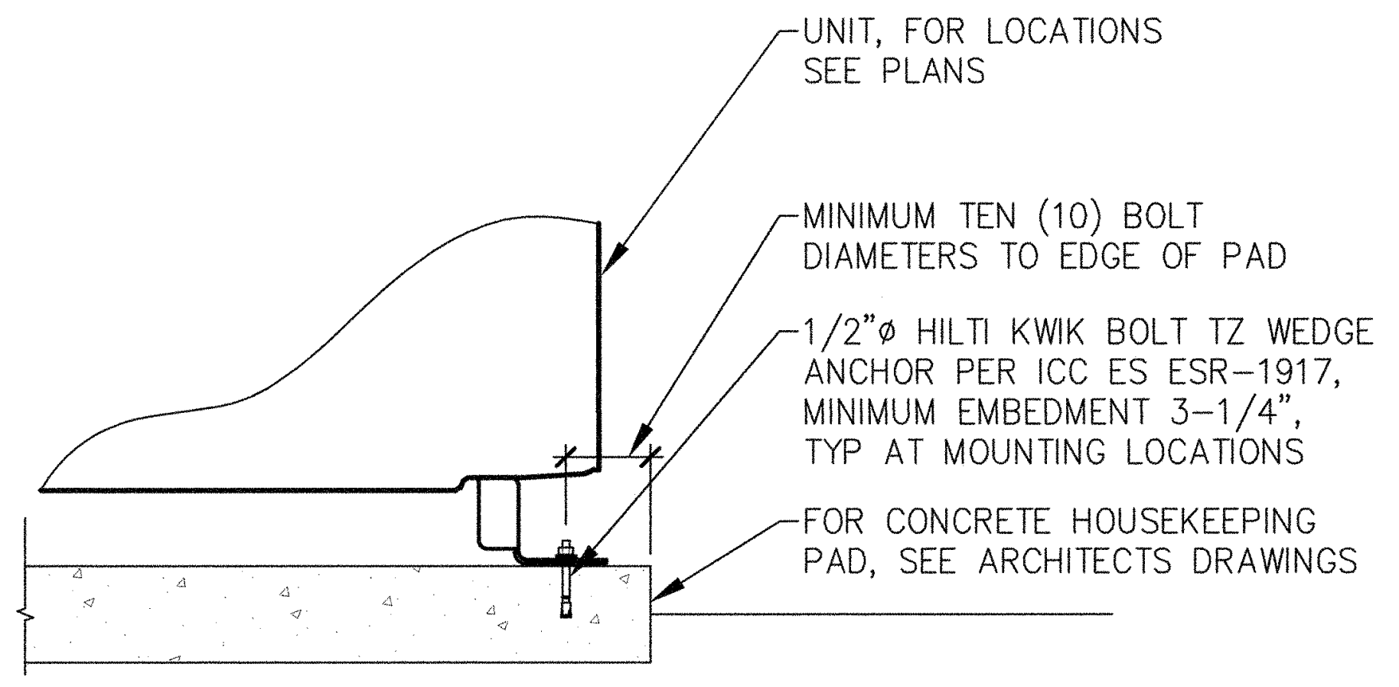
NOTE:
CRICKET FLASHING ON HIGH SIDE OF CURB AND SLOPE TO DRAIN

7 M6.1 ROOF MOUNTED FAN

NO SCALE

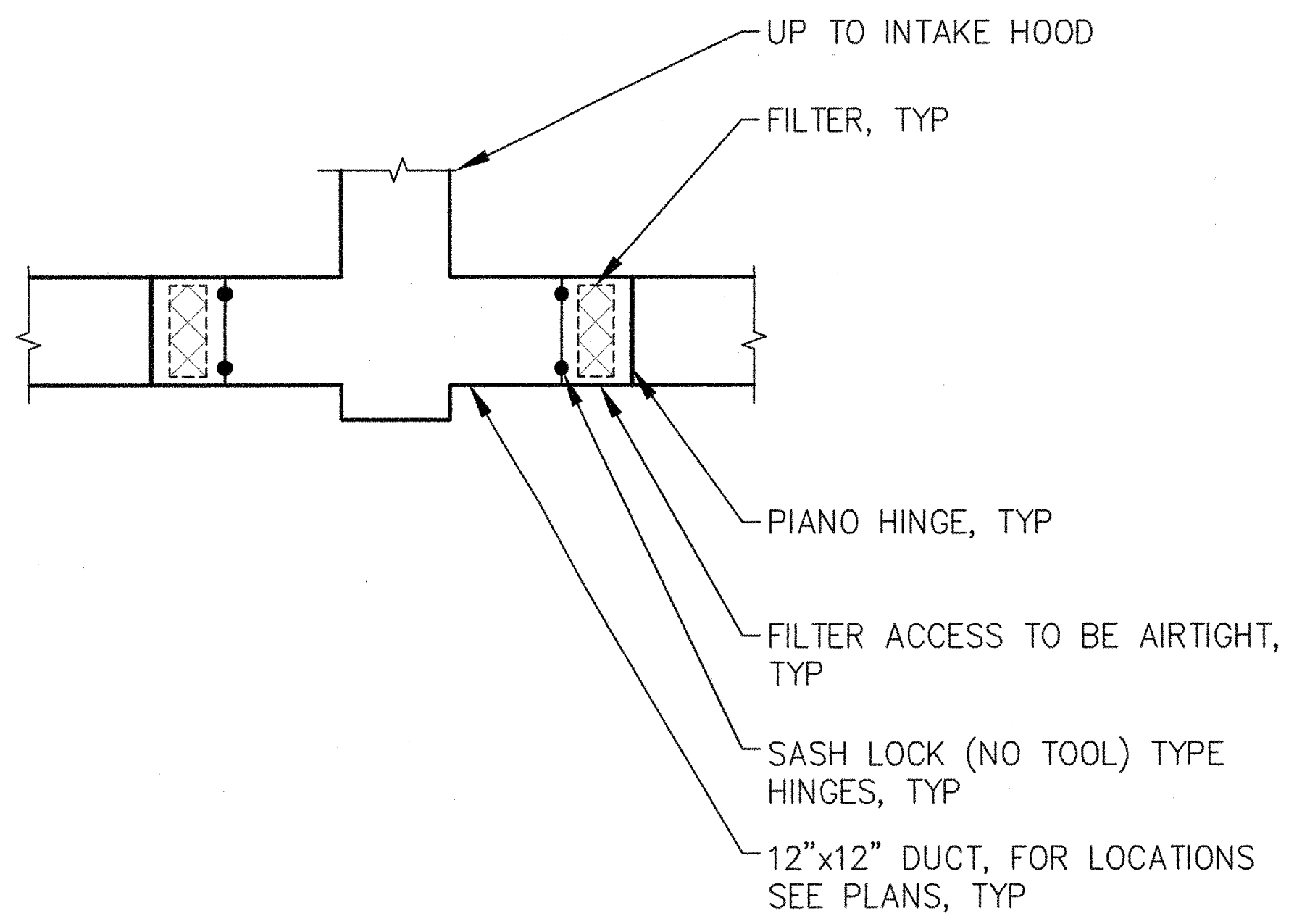
(HOODS AND CAPS SIMILAR)

NOTE:
HP-2-1 – TYP. OF 6 MOUNTING LOCATIONS
HP-A-1 – TYP. OF 12 MOUNTING LOCATIONS
HP-B-1 – TYP. OF 10 MOUNTING LOCATIONS
HP-C-1 – TYP. OF 10 MOUNTING LOCATIONS
HP-D-1 – TYP. OF 10 MOUNTING LOCATIONS


UNIT, FOR LOCATIONS SEE PLANS
MINIMUM TEN (10) BOLT DIAMETERS TO EDGE OF PAD
1/2"ø HILTI KWIK BOLT TZ WEDGE ANCHOR PER ICC ES ESR-1917, MINIMUM EMBEDMENT 3-1/4", TYP AT MOUNTING LOCATIONS
FOR CONCRETE HOUSEKEEPING PAD, SEE ARCHITECTS DRAWINGS

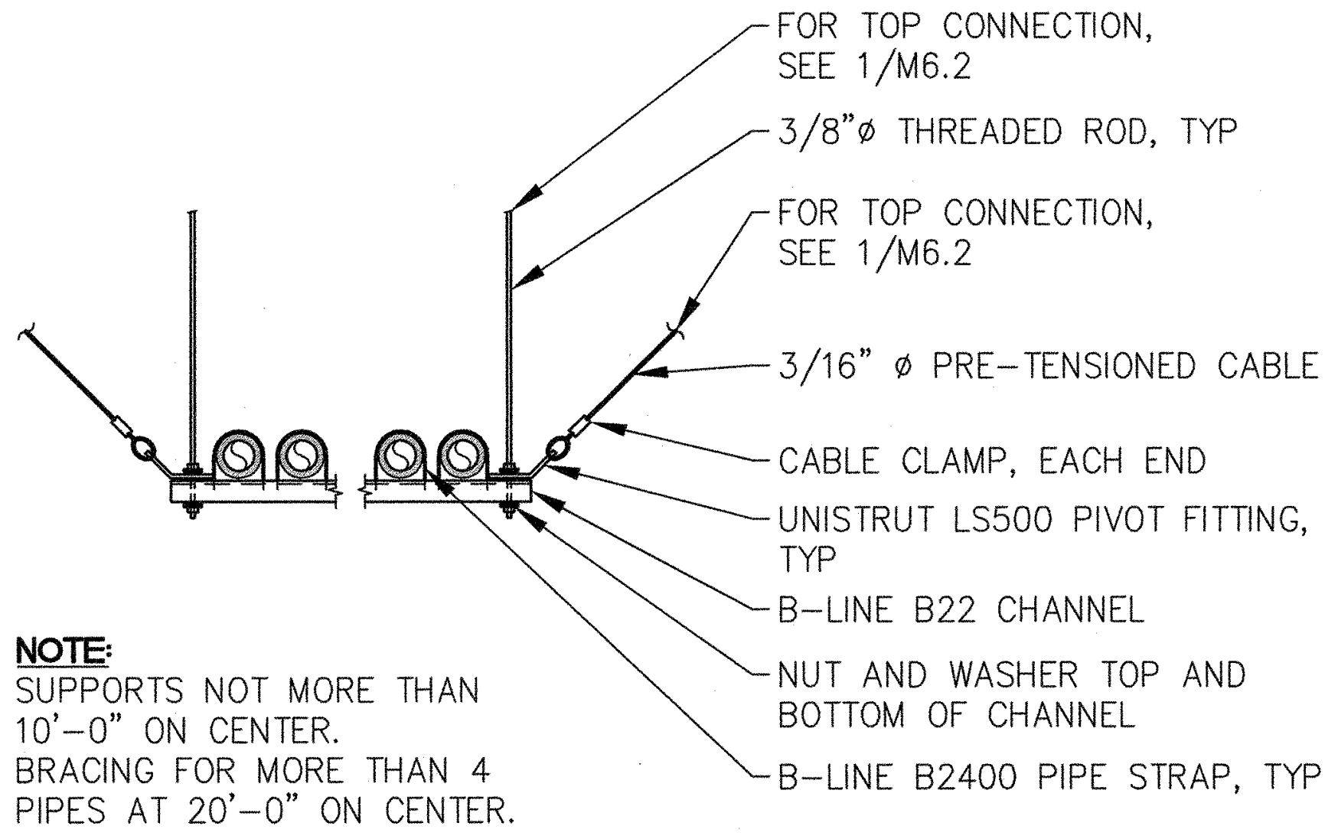
3 M6.1 HEAT PUMP MOUNTING

NO SCALE


UP TO INTAKE HOOD
FILTER, TYP
PIANO HINGE, TYP
FILTER ACCESS TO BE AIRTIGHT, TYP
SASH LOCK (NO TOOL) TYPE HINGES, TYP
12"x12" DUCT, FOR LOCATIONS SEE PLANS, TYP

17 M6.1 DUCT TRANSITION AT INTAKE HOOD AND FILTER BOX

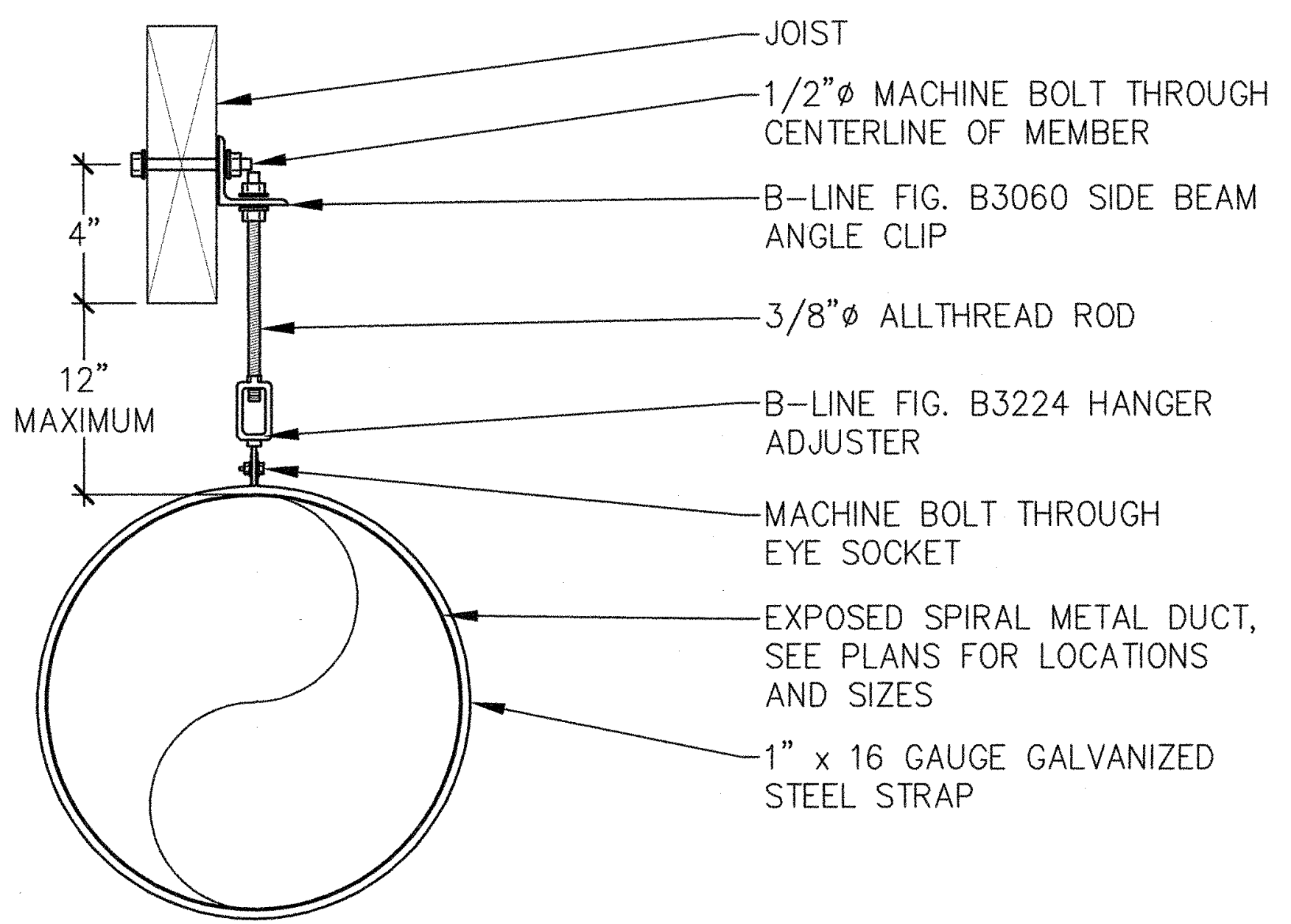
NO SCALE


FOR TOP CONNECTION, SEE 1/M6.2
3/8"ø THREADED ROD, TYP
FOR TOP CONNECTION, SEE 1/M6.2
3/16" ø PRE-TENSIONED CABLE
CABLE CLAMP, EACH END
UNISTRUT LS500 PIVOT FITTING, TYP
B-LINE B22 CHANNEL
NUT AND WASHER TOP AND BOTTOM OF CHANNEL
B-LINE B2400 PIPE STRAP, TYP

NOTE:
SUPPORTS NOT MORE THAN 10'-0" ON CENTER.
BRACING FOR MORE THAN 4 PIPES AT 20'-0" ON CENTER.
BRACING FOR LESS THAN 4 PIPES AT 40'-0" ON CENTER.

15 M6.1 REFRIGERANT PIPE SUPPORTS

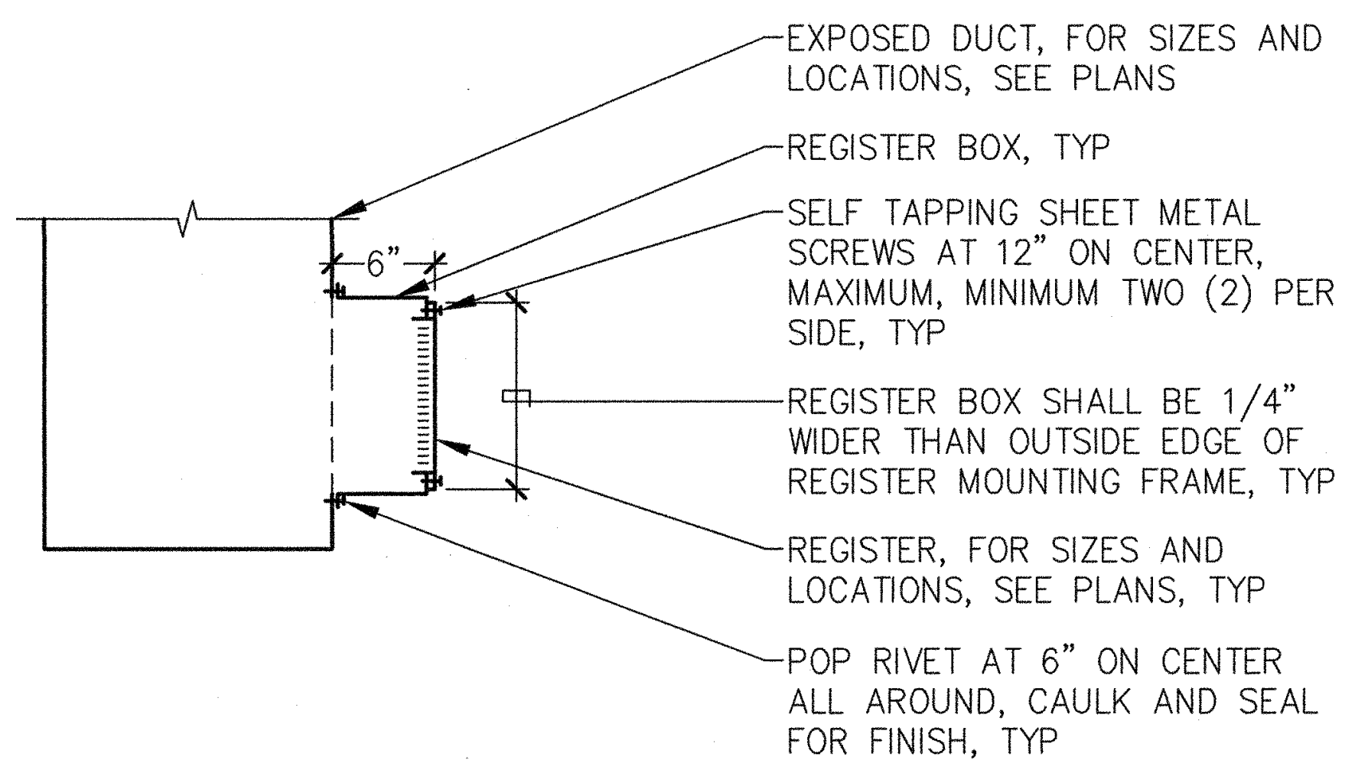
NO SCALE


JOIST
1/2"ø MACHINE BOLT THROUGH CENTERLINE OF MEMBER
B-LINE FIG. B3060 SIDE BEAM ANGLE CLIP
4"
3/8"ø ALLTHREAD ROD
12" MAXIMUM
B-LINE FIG. B3224 HANGER ADJUSTER
MACHINE BOLT THROUGH EYE SOCKET
EXPOSED SPIRAL METAL DUCT, SEE PLANS FOR LOCATIONS AND SIZES
1" x 16 GAUGE GALVANIZED STEEL STRAP

NOTE:
SUPPORTS NOT MORE THAN 12'-0" ON CENTER.
PROVIDE SEISMIC BRACING AS REQUIRED, SEE SPECIFICATIONS.

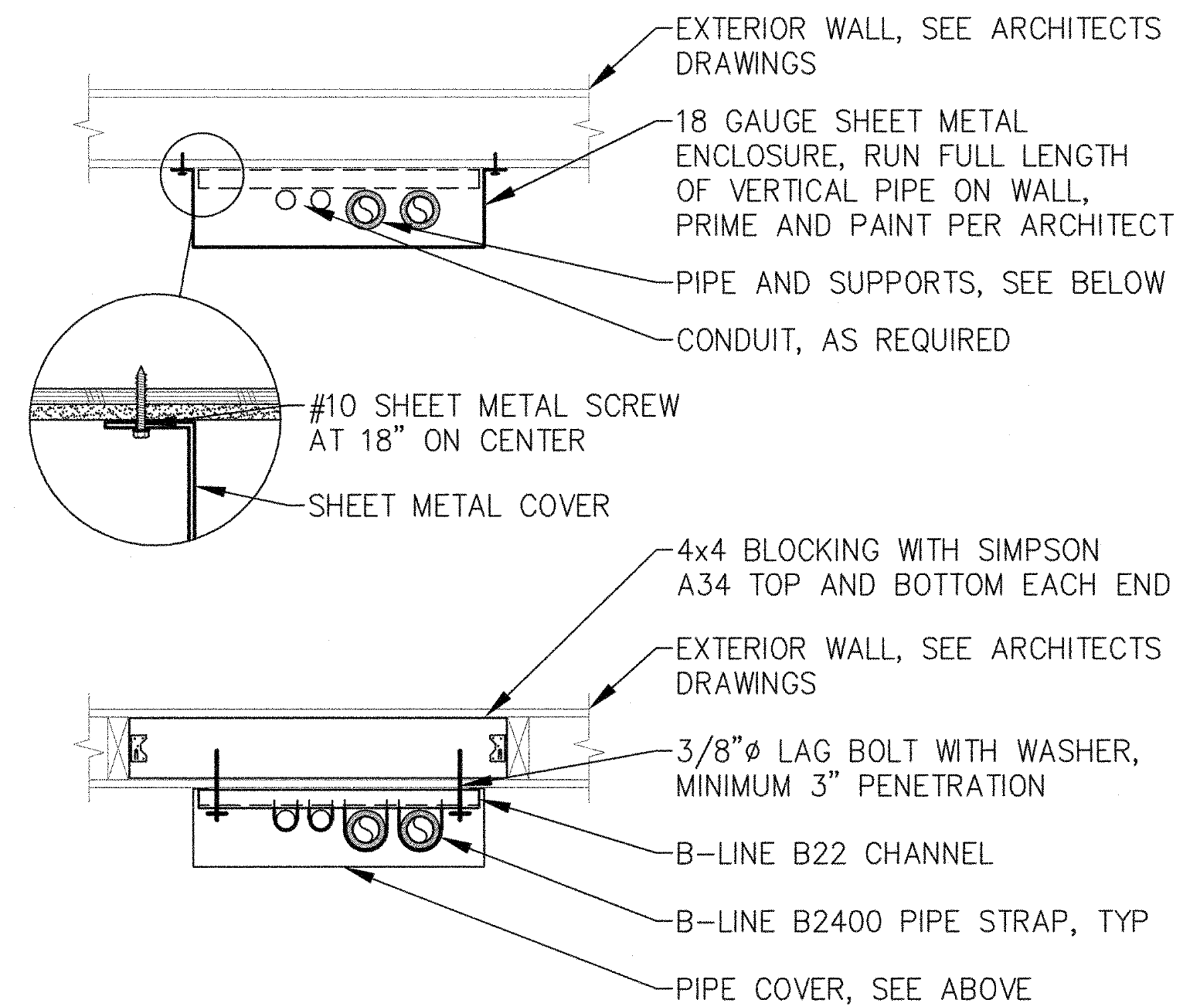
12 M6.1 EXPOSED DUCT SUPPORT

NO SCALE


EXPOSED DUCT, FOR SIZES AND LOCATIONS, SEE PLANS
6"
REGISTER BOX, TYP
SELF TAPPING SHEET METAL SCREWS AT 12" ON CENTER, MAXIMUM, MINIMUM TWO (2) PER SIDE, TYP
REGISTER BOX SHALL BE 1/4" WIDER THAN OUTSIDE EDGE OF REGISTER MOUNTING FRAME, TYP
REGISTER, FOR SIZES AND LOCATIONS, SEE PLANS, TYP
POP RIVET AT 6" ON CENTER ALL AROUND, CAULK AND SEAL FOR FINISH, TYP

8 M6.1 DUCT MOUNTED REGISTER

NO SCALE


EXTERIOR WALL, SEE ARCHITECTS DRAWINGS
18 GAUGE SHEET METAL ENCLOSURE, RUN FULL LENGTH OF VERTICAL PIPE ON WALL, PRIME AND PAINT PER ARCHITECT
PIPE AND SUPPORTS, SEE BELOW
CONDUIT, AS REQUIRED
#10 SHEET METAL SCREW AT 18" ON CENTER
SHEET METAL COVER
4x4 BLOCKING WITH SIMPSON A34 TOP AND BOTTOM EACH END
EXTERIOR WALL, SEE ARCHITECTS DRAWINGS
3/8"ø LAG BOLT WITH WASHER, MINIMUM 3" PENETRATION
B-LINE B22 CHANNEL
B-LINE B2400 PIPE STRAP, TYP
PIPE COVER, SEE ABOVE

4 M6.1 PIPE RACK AND COVER

NO SCALE

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No. M31059
EXP. JUNE 30, 2019
MECHANICAL

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REVISIONS

NO.	ITEM	DATE
	DD SUBMITTAL	12-8-17
	DSA SUBMITTAL	01-31-18
	BID SET	04-09-18

DSA FILE NUMBER 43-04

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL 01-117267
AC KG FLS MS SS
DATE MAY 22 2018

DRAWN BY: CADD
CHECKED BY: MS
JOB NO: 17102
DATE: 04/09/2018

M6.1

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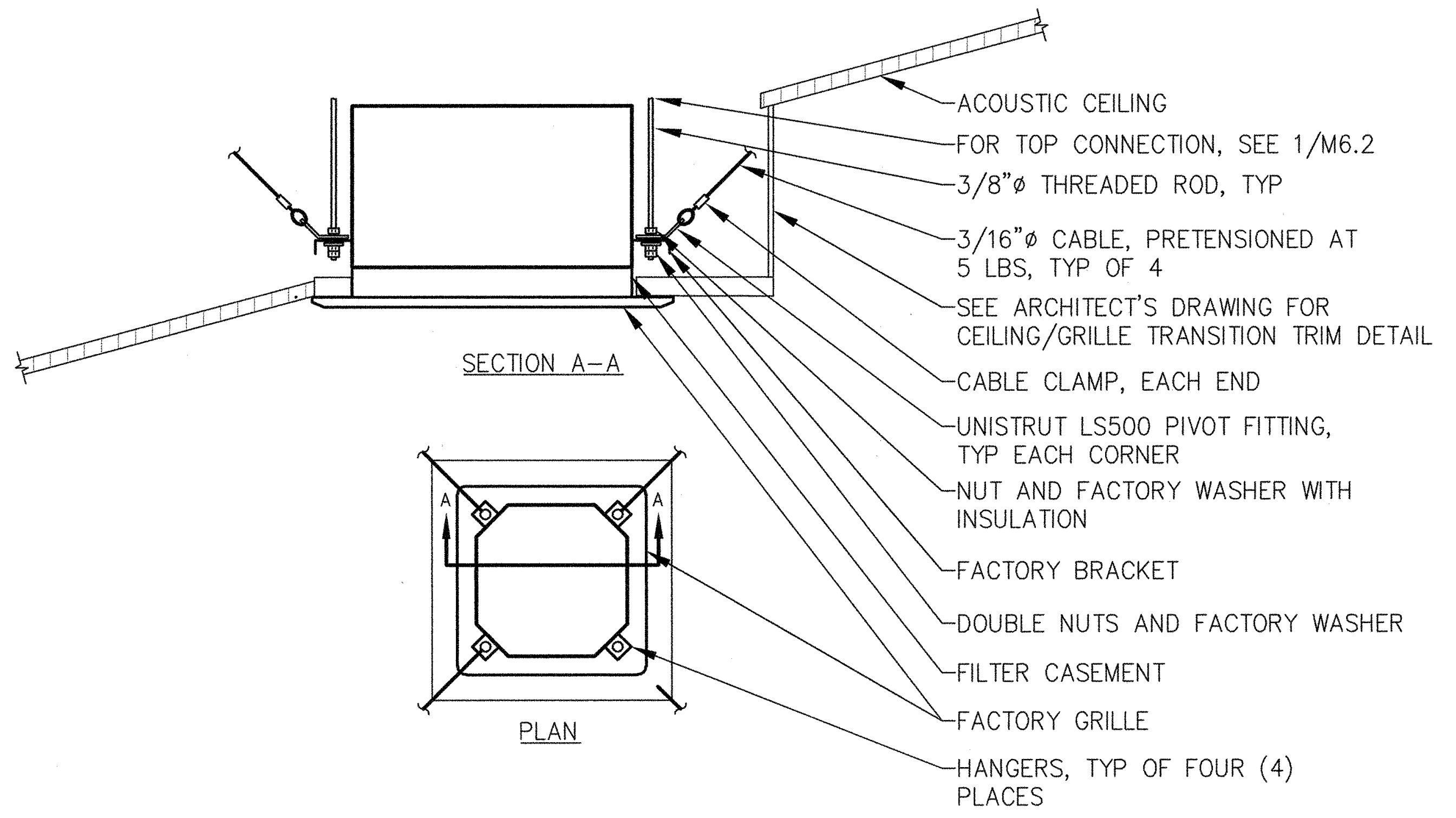
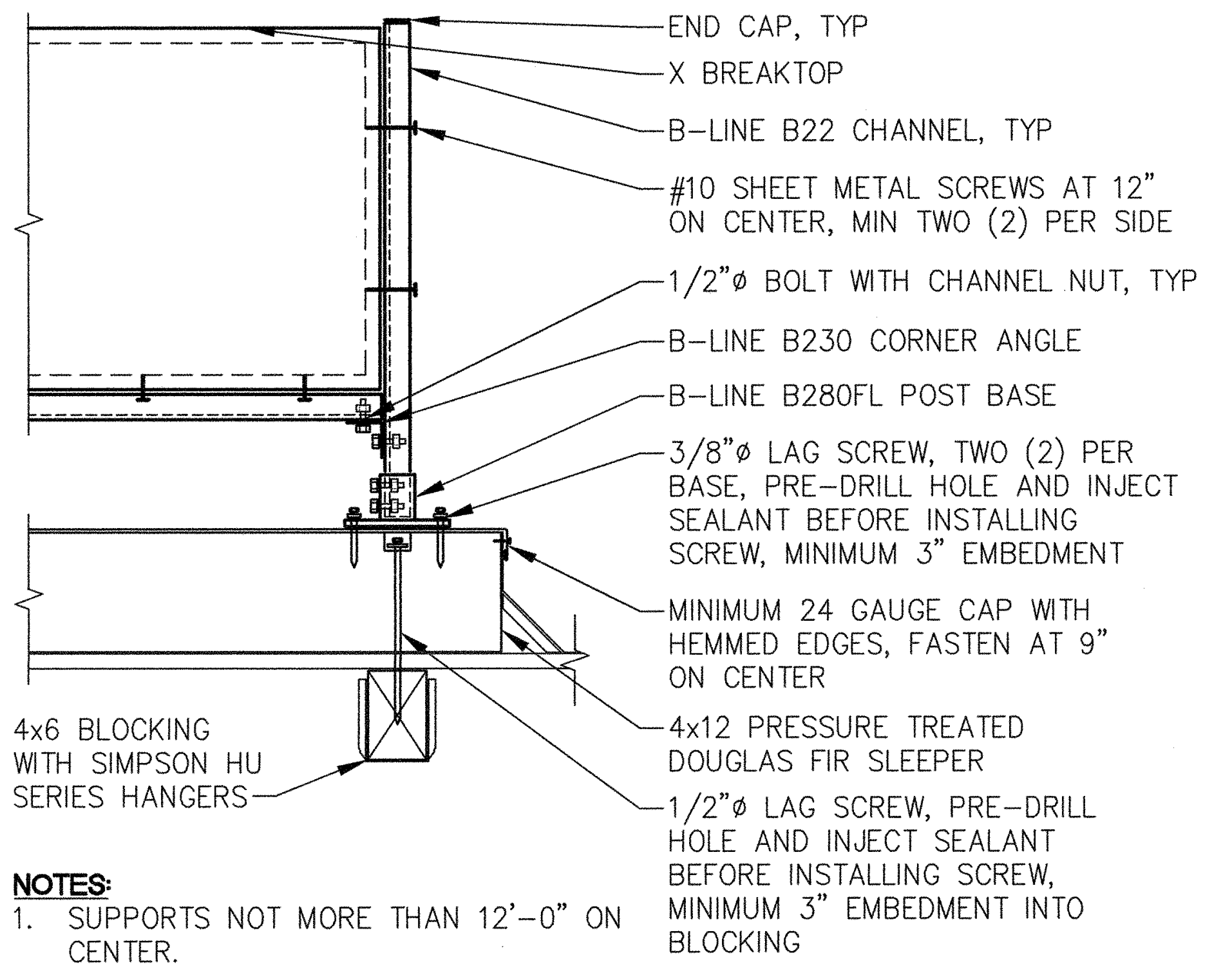
May 14, 2018 9:29:08 a.m.
Drawing: H:\PROJ2017\20170293\DRAWINGS\LNA-FILS\HVA-M61.DWG
Xrefs: DT17-M61.DWG, DT16-M61.DWG, DT15-M61.DWG, DT14-M61.DWG, DT13-M61.DWG, DT12-M61.DWG, DT11-M61.DWG, DT10-M61.DWG, DT9-M61.DWG, DT8-M61.DWG, DT7-M61.DWG, DT6-M61.DWG, DT5-M61.DWG, DT4-M61.DWG, DT3-M61.DWG, DT2-M61.DWG, DT1-M61.DWG, MAS-BORD.DWG,


SECTION A-A
PLAN
A
A
ACOUSTIC CEILING
FOR TOP CONNECTION, SEE 1/M6.2
3/8"ø THREADED ROD, TYP
3/16"ø CABLE, PRETENSIONED AT 5 LBS, TYP OF 4
SEE ARCHITECT'S DRAWING FOR CEILING/GRILLE TRANSITION TRIM DETAIL
CABLE CLAMP, EACH END
UNISTRUT LS500 PIVOT FITTING, TYP EACH CORNER
NUT AND FACTORY WASHER WITH INSULATION
FACTORY BRACKET
DOUBLE NUTS AND FACTORY WASHER
FILTER CASEMENT
FACTORY GRILLE
HANGERS, TYP OF FOUR (4) PLACES

4 M6.2 FAN COIL UNIT MOUNTING

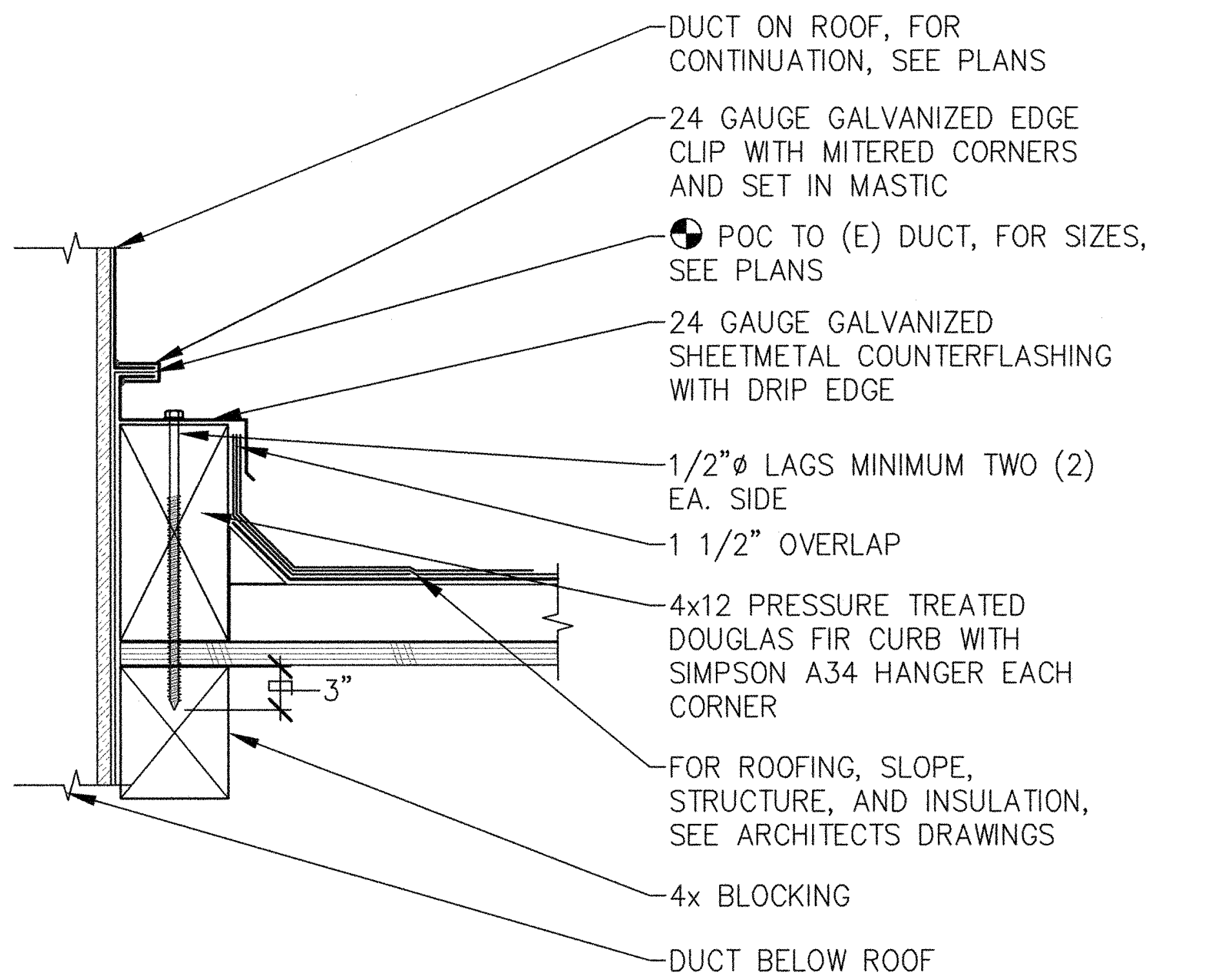
NO SCALE


END CAP, TYP
X BREAKTOP
B-LINE B22 CHANNEL, TYP
#10 SHEET METAL SCREWS AT 12" ON CENTER, MIN TWO (2) PER SIDE
1/2"ø BOLT WITH CHANNEL NUT, TYP
B-LINE B230 CORNER ANGLE
B-LINE B280FL POST BASE
3/8"ø LAG SCREW, TWO (2) PER BASE, PRE-DRILL HOLE AND INJECT SEALANT BEFORE INSTALLING SCREW, MINIMUM 3" EMBEDMENT
MINIMUM 24 GAUGE CAP WITH HEMMED EDGES, FASTEN AT 9" ON CENTER
4x12 PRESSURE TREATED DOUGLAS FIR SLEEPER
1/2"ø LAG SCREW, PRE-DRILL HOLE AND INJECT SEALANT BEFORE INSTALLING SCREW, MINIMUM 3" EMBEDMENT INTO BLOCKING
4x6 BLOCKING WITH SIMPSON HU SERIES HANGERS

NOTES:
1. SUPPORTS NOT MORE THAN 12'-0" ON CENTER.

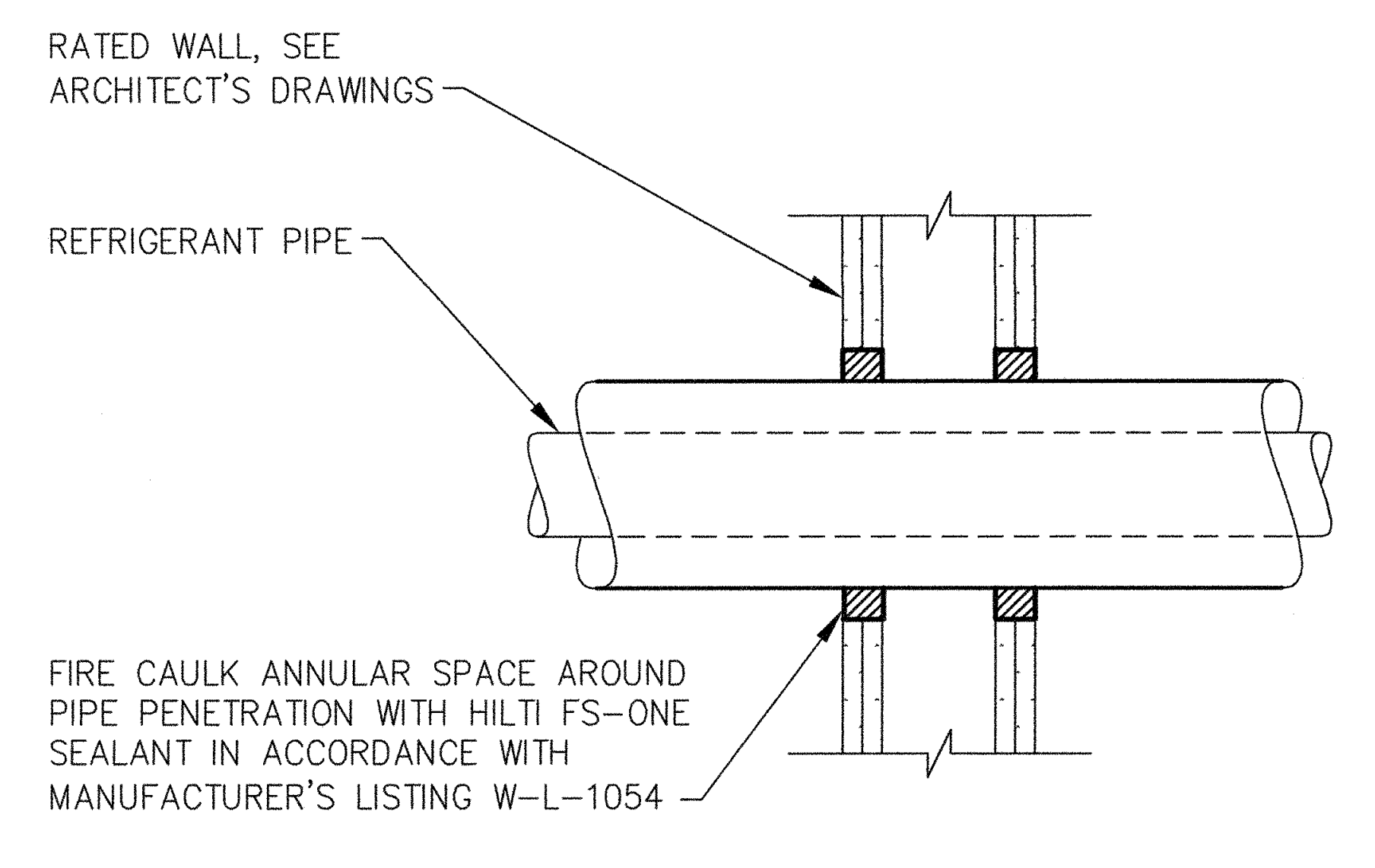
5 M6.2 DUCT SUPPORT ON ROOF

NO SCALE


DUCT ON ROOF, FOR CONTINUATION, SEE PLANS
24 GAUGE GALVANIZED EDGE CLIP WITH MITERED CORNERS AND SET IN MASTIC
POC TO (E) DUCT, FOR SIZES, SEE PLANS
24 GAUGE GALVANIZED SHEETMETAL COUNTERFLASHING WITH DRIP EDGE
1/2"ø LAGS MINIMUM TWO (2) EA. SIDE
1 1/2" OVERLAP
4x12 PRESSURE TREATED DOUGLAS FIR CURB WITH SIMPSON A34 HANGER EACH CORNER
FOR ROOFING, SLOPE, STRUCTURE, AND INSULATION, SEE ARCHITECTS DRAWINGS
4x BLOCKING
DUCT BELOW ROOF
3"

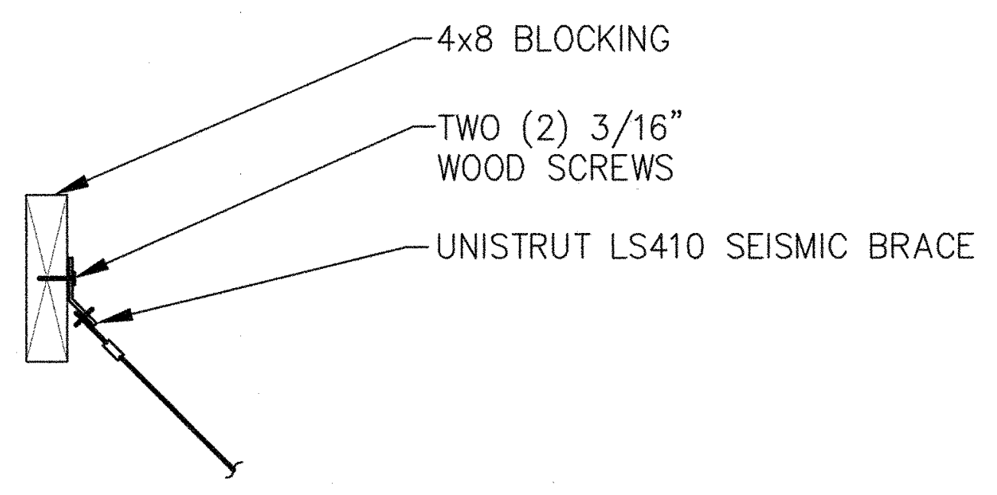
6 M6.2 DUCT THROUGH ROOF

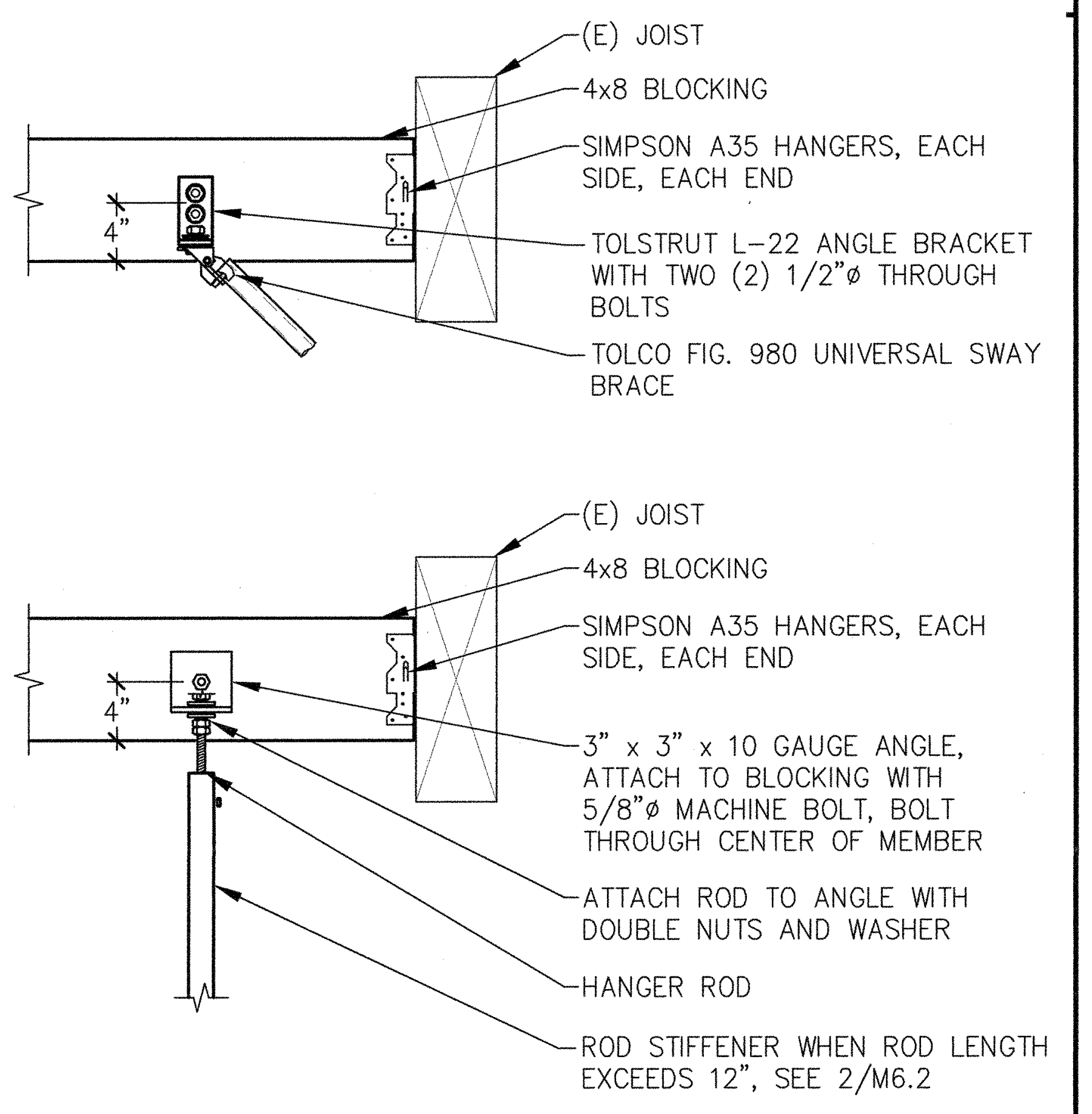
NO SCALE


RATED WALL, SEE ARCHITECT'S DRAWINGS
REFRIGERANT PIPE
FIRE CAULK ANNULAR SPACE AROUND PIPE PENETRATION WITH HILTI FS-ONE SEALANT IN ACCORDANCE WITH MANUFACTURER'S LISTING W-L-1054

7 M6.2 PIPE THRU RATED WALL

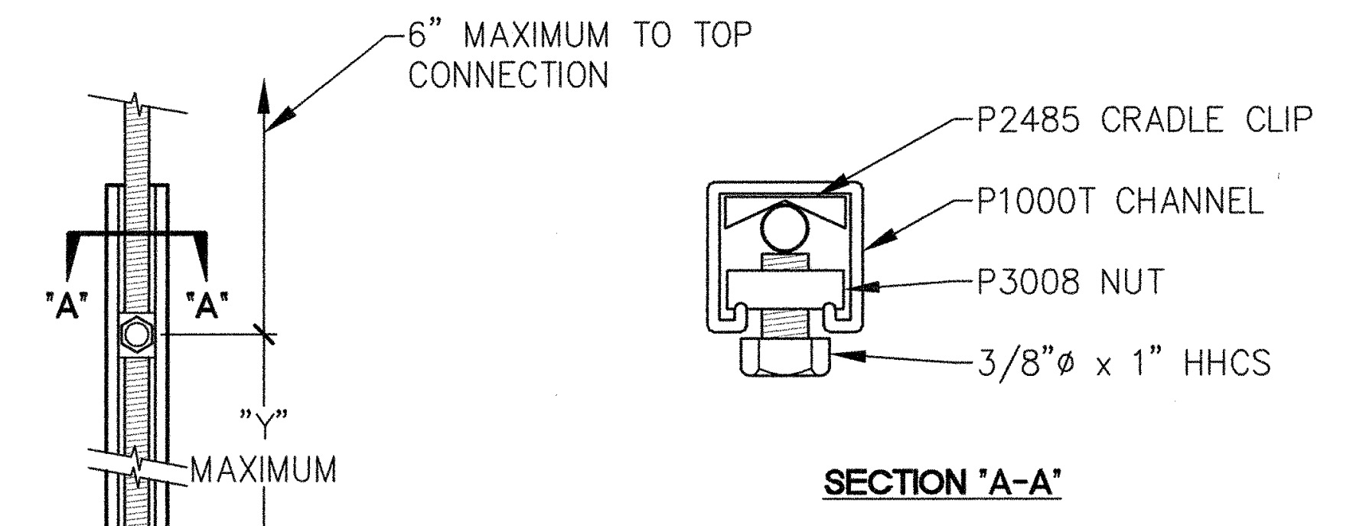
NO SCALE




(E) JOIST
4x8 BLOCKING
SIMPSON A35 HANGERS, EACH SIDE, EACH END
TOLSTRUT L-22 ANGLE BRACKET WITH TWO (2) 1/2"ø THROUGH BOLTS
TOLCO FIG. 980 UNIVERSAL SWAY BRACE
4"
(E) JOIST
4x8 BLOCKING
SIMPSON A35 HANGERS, EACH SIDE, EACH END
3" x 3" x 10 GAUGE ANGLE, ATTACH TO BLOCKING WITH 5/8"ø MACHINE BOLT, BOLT THROUGH CENTER OF MEMBER
ATTACH ROD TO ANGLE WITH DOUBLE NUTS AND WASHER
HANGER ROD
ROD STIFFENER WHEN ROD LENGTH EXCEEDS 12", SEE 2/M6.2
4"

1 M6.2 TOP CONNECTIONS

NO SCALE



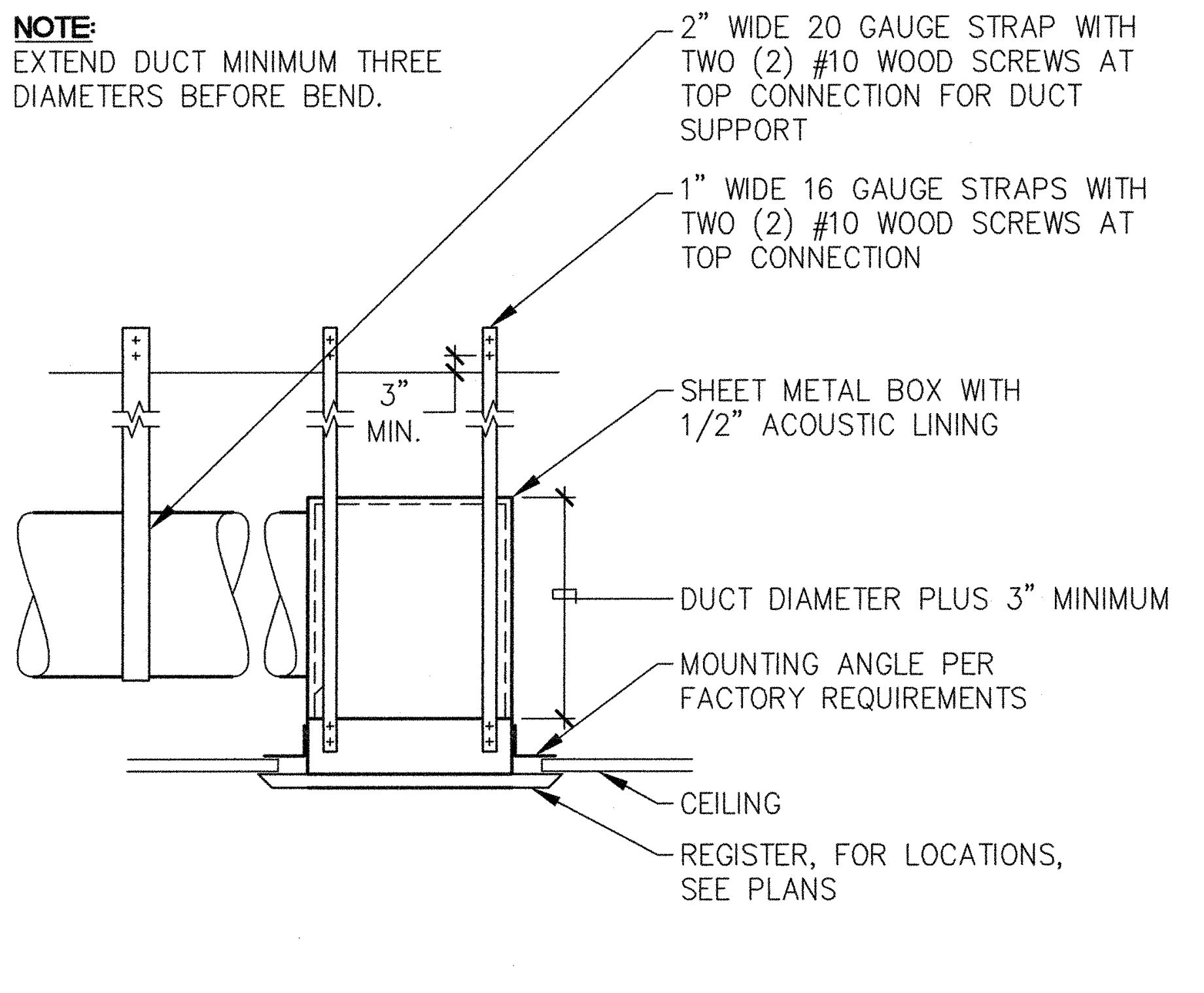
HANGER ROD	"Y"
3/8"ø	12.7"
1/2"ø	16.7"
5/8"ø	21.1"
3/4"ø	25.8"

NOTES:
1. VERTICAL STIFFENER NOT REQUIRED IF TOTAL ROD LENGTH DOES NOT EXCEED THE "Y" DIMENSION.
2. MINIMUM OF STIFFENER ASSEMBLY CLAMPS AS REQUIRED BY MANUFACTURER.
3. ALL PART NUMBERS ARE UNISTRUT.

2 M6.2 ROD STIFFENER

NO SCALE

NOTE:
EXTEND DUCT MINIMUM THREE DIAMETERS BEFORE BEND.


2" WIDE 20 GAUGE STRAP WITH TWO (2) #10 WOOD SCREWS AT TOP CONNECTION FOR DUCT SUPPORT
1" WIDE 16 GAUGE STRAPS WITH TWO (2) #10 WOOD SCREWS AT TOP CONNECTION
3" MIN.
SHEET METAL BOX WITH 1/2" ACOUSTIC LINING
DUCT DIAMETER PLUS 3" MINIMUM
MOUNTING ANGLE PER FACTORY REQUIREMENTS
CEILING
REGISTER, FOR LOCATIONS, SEE PLANS

3 M6.2 REGISTER MOUNTING

NO SCALE

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ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE
	DD SUBMITTAL	12-8-17
	DSA SUBMITTAL	01-31-18
	BID SET	04-09-18

DSA FILE NUMBER 43-04

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL 01-117267
AC KG FLS MS SS
DATE MAY 2 2 2018

DRAWN BY: CADD
CHECKED BY: MS
JOB NO: 17102
DATE: 04/09/2018

M6.2

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May 14, 2018 9:29:11 a.m.
Drawing: H:\PROJ2017\20170293\DRAWINGS\LNA-FILS\HVA-M62.DWG
Xrefs: DT7-M62.DWG, DT4-M62.DWG, DT6-M62.DWG, DT5-M62.DWG, DT3-M62.DWG, DT2-M62.DWG, DT1-M62.DWG, MAS-BORD.DWG,

May 14, 2018 9:29:14 a.m.
Drawing: H:\PROJ2017\20170293\DRAWINGS\LNA-FILS\HVA-M71.DWG
Xrefs: MAS-BORD.DWG,

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CEC-NRCC-MCH-01-E (Revised 01/16)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-01-E
Mechanical Systems	Page 1 of 3
Project Name: RUSSO-MCENTEE ACADEMY - HVAC UPGRADES	Date Prepared: JANUARY 22, 2018

A. MECHANICAL COMPLIANCE DOCUMENTS & WORKSHEETS (check box if worksheet is included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, refer to the 2016 Nonresidential Manual
Note: The Enforcement Agency may require all forms to be incorporated onto the building plans.

YES	NO	Comp. Doc./Worksheet #	Title
●	○	NRCC-MCH-01-E (Part 1 of 3)	Certificate of Compliance, Declaration. Required on plans for all submittals.
●	○	NRCC-MCH-01-E (Part 2 of 3)	Certificate of Compliance, Required Acceptance Tests (MCH-02-A to 11-A). Required on plans for all submittals.
●	○	NRCC-MCH-01-E (Part 3 of 3)	Certificate of Compliance, Required Acceptance Tests (MCH-12-A to 18-A). Required on plans where applicable.
○	●	NRCC-MCH-02-E (Part 1 of 2)	Mechanical Dry Equipment Summary is required for all submittals with Central Air Systems. It is optional on plans.
○	●	NRCC-MCH-02-E (Part 2 of 2)	Mechanical Wet Equipment Summary is required for all submittals with chilled water, hot water or condenser water systems. It is optional on plans.
○	●	NRCC-MCH-03-E	Mechanical Ventilation and Reheat is required for all submittals with multiple zone heating and cooling systems. It is optional on plans.
○	●	NRCC-MCH-07-E (Part 1 of 2)	Power Consumption of Fans. Required on plans where applicable
○	●	NRCC-MCH-07-E (Part 2 of 2)	Power Consumption of Fans, Declaration. Required on plans where applicable

B. MECHANICAL HVAC ACCEPTANCE FORMS (check box for required compliance documents)

Test Performed By:

Designer:
This compliance document is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for HVAC systems. The designer is required to check the applicable boxes for all acceptance tests that apply and list all equipment that requires an acceptance test. All equipment of the same type that requires a test, list the equipment description and the number of systems.

Installing Contractor:
The contractor who installed the equipment is responsible to either conduct the acceptance test themselves or have a qualified entity run the test for them. If more than one person has responsibility for the acceptance testing, each person shall sign and submit the Certificate of Acceptance applicable to the portion of the construction or installation for which they are responsible.

Enforcement Agency:
Plancheck - The NRCC-MCH-01-E compliance document is not considered a completed document and is not to be accepted by the building department unless the correct boxes are checked.
Inspector - Before occupancy permit is granted all newly installed process systems must be tested to ensure proper operations.

Test Description		MCH-02-A	MCH-03-A	MCH-04-A	MCH-05-A	MCH-06-A	MCH-07-A	MCH-08-A	MCH-09-A	MCH-10-A	MCH-11-A
Equipment Requiring Testing or Verification	# of Units	Outdoor Air	Single Zone Unitary	Air Distribution Ducts	Economizer Controls	Demand Controlled Ventilation (DCV)	Supply Fan VAV	Valve Leakage Test	Supply Water Temp. Reset	Hydronic System Variable Flow Control	Automatic Demand Shed Control
VRF FAN COILS / HEAT PUMPS	51 / 5	☑	☑	☐	☐	☐	☐	☐	☐	☐	☐
FURNACE WITH DX COOLING	2	☑	☑	☑	☑	☑	☐	☐	☐	☐	☐

Add Row | Remove Last

CERTIFICATE OF COMPLIANCE	NRCC-MCH-01-E
Mechanical Systems	Page 2 of 3
Project Name: RUSSO-MCENTEE ACADEMY - HVAC UPGRADES	Date Prepared: JANUARY 22, 2018

C. MECHANICAL HVAC ACCEPTANCE FORMS (check box for required compliance documents)

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Enforcement Agency:
Plancheck - The NRCC-MCH-01-E compliance document is not considered a completed document and is not to be accepted by the building department unless the correct boxes are checked.
Inspector - Before occupancy permit is granted all newly installed process systems must be tested to ensure proper operations.

Test Description		MCH-12-A	MCH-13-A	MCH-14-A	MCH-15-A	MCH-16-A	MCH-17-A	MCH-18-A
Equipment Requiring Testing or Verification	# of Units	Fault Detection & Diagnostics for DX Units	Automatic Fault Detection & Diagnostics for Air & Zone	Distributed Energy Storage DX AC Systems	Thermal Energy Storage (TES) Systems	Supply Air Temperature Reset Controls	Condenser Water Reset Controls	ECMS
VRF FAN COILS / HEAT PUMPS	51 / 5	☑	☐	☐	☐	☐	☐	☑
FURNACE WITH DX COOLING	2	☑	☐	☐	☐	☐	☐	☑

Add Row | Remove Last

CERTIFICATE OF COMPLIANCE	NRCC-MCH-01-E
Mechanical Systems	Page 3 of 3
Project Name: RUSSO-MCENTEE ACADEMY - HVAC UPGRADES	Date Prepared: JANUARY 22, 2018

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: CHAHAN SHAH	Documentation Author Signature: Chahan. S. Shah
Company: AXIOM ENGINEERS	Signature Date: JANUARY 29, 2018
Address: 22 LOWER RAGSDALE DR., SUITE A	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: MONTEREY, CA, 93940	Phone: 8316498000

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: METIN SERTTUNC	Responsible Designer Signature:
Company : AXIOM ENGINEERS	Date Signed: JANUARY 29, 2018
Address: 22 LOWER RAGSDALE DR., SUITE A	License: M-31059
City/State/Zip: MONTEREY, CA, 93940	Phone: 8316498000

SUGIMURA
FINNEY
ARCHITECTS
SFA
ARCHITECTURE INTERIORS PLANNING

2155 SOUTH BASCOM AVE.
SUITE 200
CAMPBELL, CA 95008
PHONE: 408-879-0600
FAX: 408-377-6066

REGISTERED PROFESSIONAL ENGINEER
METIN SERTTUNC
No. M31059
EXP. JUNE 30, 2019
MECHANICAL
STATE OF CALIFORNIA

vc. (831) 649-8000
fx. (831) 649-8038
email: mail@axiomengineers.com
AXIOM ENGINEERS SM
LEE & ASSOCIATES
CONSULTING ENGINEERS
AE Project # : 20170293
22 Lower Ragsdale Dr., Suite A
Monterey, California 93940-5788

TITLE 24 DOCUMENTATION - MECHANICAL

RUSSO-McENTEE ACADEMY- HVAC UPGRADES
2851 GAY AVE., SAN JOSE, CA 95127
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

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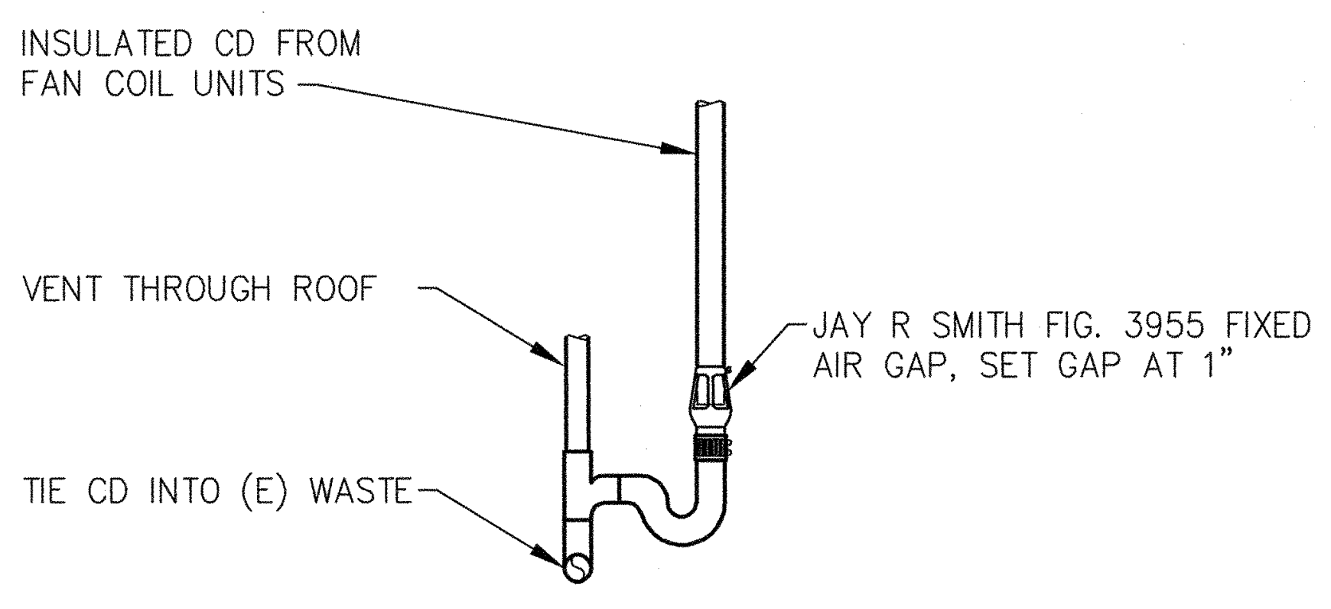
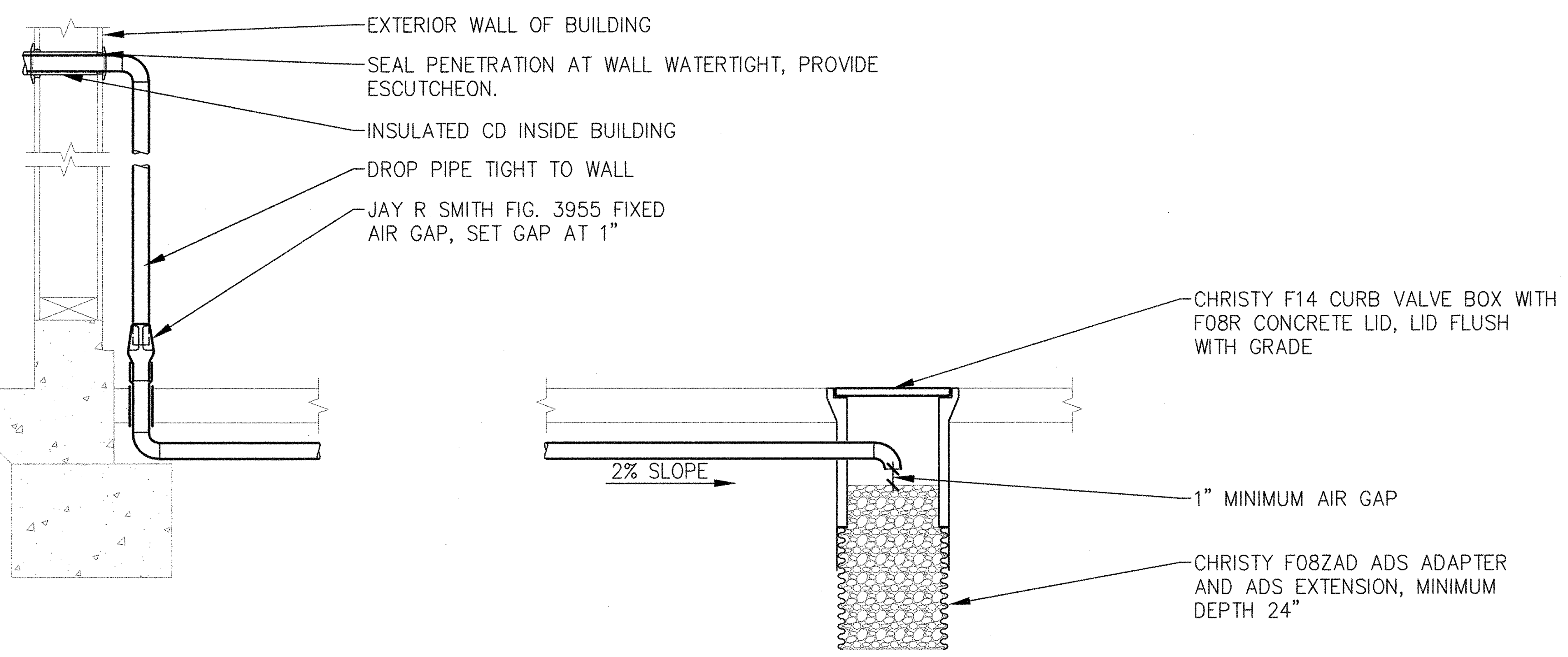
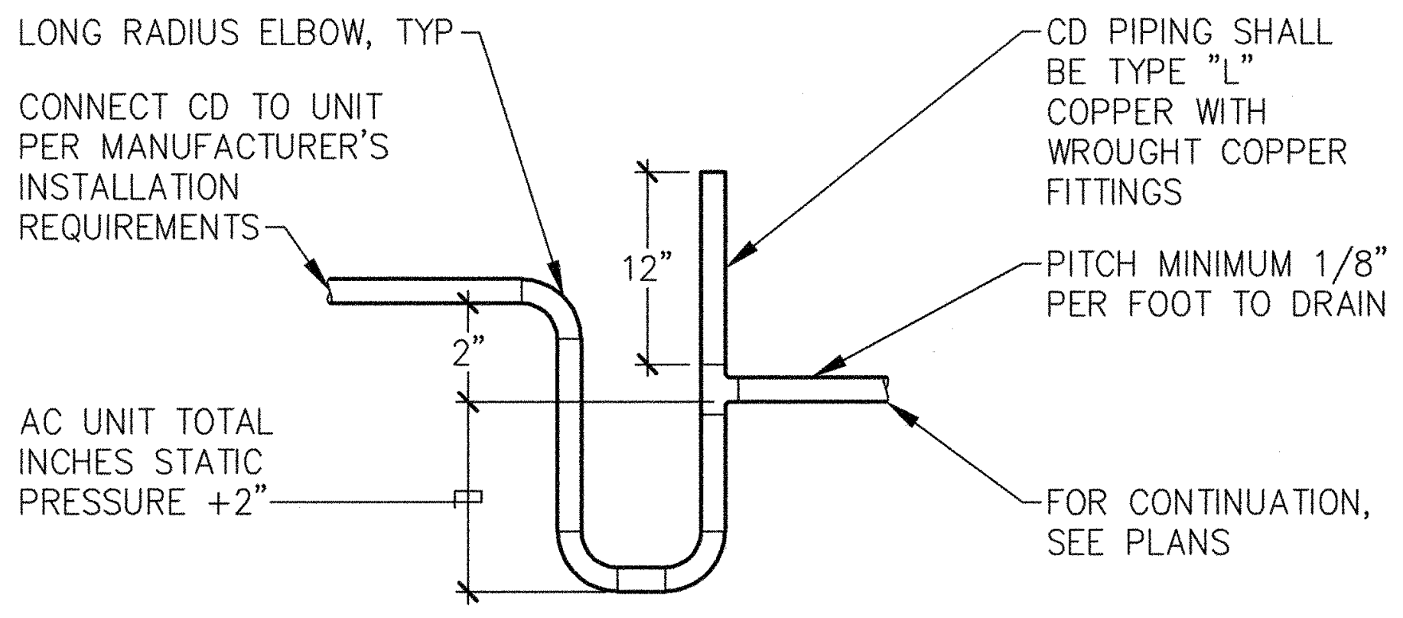

INSULATED CD FROM FAN COIL UNITS
VENT THROUGH ROOF
JAY R SMITH FIG. 3955 FIXED AIR GAP, SET GAP AT 1"
TIE CD INTO (E) WASTE

4 FIXED AIR GAP CONDENSATE
P0.1
NO SCALE

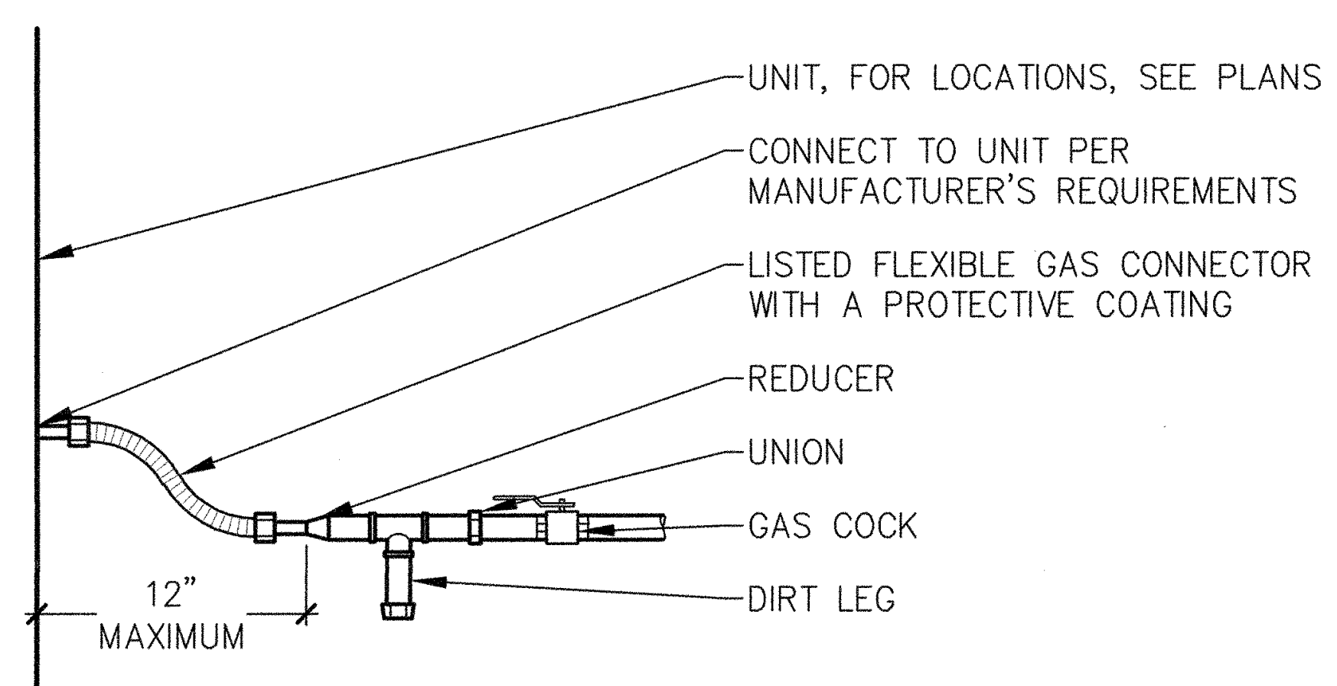

EXTERIOR WALL OF BUILDING
SEAL PENETRATION AT WALL WATERTIGHT, PROVIDE ESCUTCHEON.
INSULATED CD INSIDE BUILDING
DROP PIPE TIGHT TO WALL
JAY R SMITH FIG. 3955 FIXED AIR GAP, SET GAP AT 1"
CHRISTY F14 CURB VALVE BOX WITH F08R CONCRETE LID, LID FLUSH WITH GRADE
2% SLOPE
1" MINIMUM AIR GAP
CHRISTY F08ZAD ADS ADAPTER AND ADS EXTENSION, MINIMUM DEPTH 24"

1 CONDENSATE DRY WELL
P0.1
NO SCALE


LONG RADIUS ELBOW, TYP
CONNECT CD TO UNIT PER MANUFACTURER'S INSTALLATION REQUIREMENTS
12"
2"
AC UNIT TOTAL INCHES STATIC PRESSURE +2"
CD PIPING SHALL BE TYPE "L" COPPER WITH WROUGHT COPPER FITTINGS
PITCH MINIMUM 1/8" PER FOOT TO DRAIN
FOR CONTINUATION, SEE PLANS

NOTES:
1. CD PIPE SIZE SHALL NOT BE SMALLER THAN UNIT DRAIN CONNECTION SIZE.
2. FOR PIPE SIZES AND LOCATIONS, SEE PLANS.

3 COOLING COIL CONDENSATE TRAP
P0.1
NO SCALE


UNIT, FOR LOCATIONS, SEE PLANS
CONNECT TO UNIT PER MANUFACTURER'S REQUIREMENTS
LISTED FLEXIBLE GAS CONNECTOR WITH A PROTECTIVE COATING
REDUCER
UNION
GAS COCK
DIRT LEG
12" MAXIMUM

2 GAS CONNECTION AT UNIT
P0.1
NO SCALE

PLUMBING LEGEND

SYMBOL	ABBRV.	IDENTIFICATION	ABBRV.	IDENTIFICATION
——— — ———	CW	COLD WATER (DOMESTIC)	COORD	COORDINATE
——— — — ———	HW	HOT WATER	CONST	CONSTRUCTION
—— – – – – ——	HWR	HOT WATER RETURN	DN	DOWN
– – – – – – – –	V	VENT	DWGS	DRAWINGS
——TP——	TP	TRAP PRIMER LINE	(E)	EXISTING
——G——	G	GAS (7"WC)	ELEC	ELECTRICAL
——MPG——	MPG	MEDIUM PRESSURE GAS	ELEV	ELEVATION
——W——	S OR W	SOIL OR WASTE ABOVE GRADE	EMBT	EMBEDMENT
— —W— —	S OR W	SOIL OR WASTE BELOW GRADE	EQUIP	EQUIPMENT
——RWL——	RWL	RAIN WATER LEADER	FFE	FINISHED FLOOR ELEVATION
——RD——	RD	ROOF DRAIN	FLA	FULL LOAD AMPS
——CD——	CD	CONDENSATE DRAIN	FLEX	FLEXIBLE
E——		CAP	FLR	FLOOR
ʃ——	CONT	CONTINUATION	FT	FEET
—⋈— OR —⋈—		GATE VALVE	FT HD	FEET HEAD
			GPM	GALLONS PER MINUTE
——⋈——	SOV	SHUT-OFF VALVE	HP	HORSEPOWER
——‖——		BUTTERFLY VALVE	HR	HOUR
——○——		BALL VALVE	HZ	HERTZ
⋈——	T&PRV	TEMP. & PRESS. RELIEF VALVE	IE	INVERT ELEVATION
			IN	INCH
⋈— OR —⋈—		ANGLE VALVE	INV	INVERT
			KW	KILOWATTS
——N——	CKV	CHECK VALVE	LBS	POUNDS
			LRA	LOCKED ROTOR AMPS
——⊬——		STRAINER	MAX	MAXIMUM
—⋈— OR —⋈—	GC	GAS COCK	MBH	1000 BTU PER HOUR
			MCA	MINIMUM CIRCUIT AMPS
——⋈——	GPR	GAS PRESSURE REGULATOR	MFR	MANUFACTURER
——‖——		UNION	MIN	MINIMUM
——▨——	FC	FLEXIBLE CONNECTION	MOCP	MAXIMUM OVERCURRENT PROTECTION
T●T	WHA	WATER HAMMER ARRESTOR	(N)	NEW
——⊃+	HB	HOSE BIBB	NC	NORMALLY CLOSED
——ф——	GCO/FCO	GRADE CLEANOUT/FLOOR CLEANOUT	NO	NORMALLY OPEN
⊖‖	WCO	WALL CLEANOUT	NTS	NOT TO SCALE
——◯——		CIRCULATION PUMP (DOMESTIC)	PD	PRESSURE DROP
⊞		THERMOMETER	PH	PHASE
			PRESS	PRESSURE
▬ ▬ ▬ ▬		RATED WALL, SEE ARCHITECTS DRAWINGS	PSI	POUNDS PER SQUARE INCH
——‖		CONDENSATE CLEAN OUT	QTY	QUANTITY
⊘T		TEMPERATURE GAUGE	REQD	REQUIRED
◕	P.O.C.	POINT OF CONNECTION	REQS	REQUIREMENTS
℄		CENTERLINE	RM	ROOM
	&	AND	RPM	REVOLUTIONS PER MINUTE
	@	AT	SOV	SHUT-OFF VALVE
	°F	DEGREES FAHRENHEIT	SPEC	SPECIFICATION
	AC	AIR CONDITIONER	SQ	SQUARE
	AFF	ABOVE FINISH FLOOR	STD	STANDARD
	AGGR	AGGREGATE	STRUCT	STRUCTURAL
	AMP	AMPERE	STSL	STAINLESS STEEL
	APPROX	APPROXIMATE	TDH	TOTAL DYNAMIC HEAD
	ARCH	ARCHITECT/ARCHITECTURAL	TEMP	TEMPERATURE
	BHP	BRAKE HORSEPOWER	TYP	TYPICAL
	BJ	BETWEEN JOISTS	UL	UNDERWRITER'S LABORATORIES
	BLDG	BUILDING	UON	UNLESS OTHERWISE NOTED
	BTU	BRITISH THERMAL UNIT	V	VOLT
	CFH	CUBIC FEET PER HOUR	VTR	VENT THROUGH ROOF
	CIRC	CIRCULATING	W/	WITH
	CLG	CEILING	WC	WATER COLUMN
	CONC	CONCRETE	WT	WEIGHT
	CONN	CONNECTION		

LIST OF GOVERNING CODES:

2016 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24, C.C.R.
2016 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, C.C.R.
2016 CALIFORNIA ELECTRICAL CODE, PART 3, TITLE 24, C.C.R.
2016 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, C.C.R.
2016 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, C.C.R.
2016 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24, C.C.R.
2016 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, C.C.R.
2016 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24, C.C.R.
2016 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, C.C.R.
TITLE 19, C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

ALL SECTION NUMBERS BELOW REFER TO GROUP 1, CHAPTER 4, PART 1, TITLE 24, C.C.R.
1. ADDENDA, CONSTRUCTION CHANGES PER SECTION 4-338.
2. INSPECTOR APPROVED BY DSA. INSPECTOR AND CONTINUOUS INSPECTION OF WORK PER SECTION 4-333(b) AND 4-342.
3. TESTS AND TESTING LABORATORY PER SECT. 4-335.
4. SPECIAL INSPECTION PER SECT. 4-333(d).
5. CONTRACTOR SHALL SUBMIT VERIFIED REPORTS PER SECT. 4-336 AND 4-343(c).
6. ADMINISTRATION OF CONSTRUCTION PER PART 1, TITLE 24, C.C.R. – DUTIES OF ARCHITECT, STRUCTURAL ENGINEER OR PROFESSIONAL ENGINEER PER SECT. 4-333(a) AND 4-341.
7. GOVERNING CODES: TITLE 24.
8. A COPY OF PARTS 1, 2, 3, 4, AND 5 OF TITLE 24 SHALL BE KEPT AVAILABLE IN THE FIELD DURING CONSTRUCTION.
9. DSA SHALL BE NOTIFIED OF START OF CONSTRUCTION PER SECT. 4-331.
10. SUPERVISION BY THE OFFICE OF REGULATION SERVICE PER SECT. 4-334.

GENERAL NOTES:

1. THIS PROJECT IS NEW CONSTRUCTION AT AN EXISTING CAMPUS. THE PLANS AND SPECIFICATIONS INDICATE THE GENERAL EXTENT OF THE WORK BASED ON OWNER PROVIDED RECORD DRAWINGS AND LIMITED FIELD VERIFICATION. CONTRACTOR SHALL VISIT SITE, VERIFY EXISTING CONDITIONS, AND REPORT ANY DISCREPANCIES NOTED TO THE ARCHITECT PRIOR TO SUBMITTING A BID. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISCONNECTION AND RECONNECTION OF MECHANICAL, PLUMBING, AND ELECTRICAL SYSTEMS NECESSARY TO ACCOMPLISH THE WORK WHETHER OR NOT SPECIFIED AND/OR INDICATED.

2. CUTTING OR CORING OF STRUCTURAL MEMBERS OR FOOTINGS IS PROHIBITED WITHOUT THE PRIOR WRITTEN CONSENT OF THE STRUCTURAL ENGINEER AND THE ARCHITECT.

3. CONTRACTOR SHALL VERIFY THAT THE ELECTRICAL CONNECTIONS TO THE UNITS, INCLUDING CIRCUIT PROTECTION, CONFORM TO UNIT LABELS AND MANUFACTURER'S DIRECTIONS. WHERE WIRE SIZES SHOWN ON DRAWING EXCEED MANUFACTURER'S RECOMMENDATIONS, THE DRAWINGS SHALL GOVERN. ALL WIRING SHALL BE PER THE NATIONAL ELECTRICAL CODE.

4. FLASHING AND WEATHERPROOFING AT EXTERIOR PENETRATIONS ARE SHOWN ON THE ARCHITECTURAL DRAWINGS.

5. COORDINATE WITH OWNER ON SPACE REQUIRED AND TIME SCHEDULE FOR DELIVERY OF ALL ITEMS WHICH ARE TO BE GIVEN TO THE OWNER FOR HIS DISPOSITION.

6. FOR ROOF PENETRATIONS WITHOUT CURBS, PROVIDE WEATHERPROOF FLASHING PER SMACNA ARCHITECTURAL SHEET METAL MANUAL AND DRAWING NOTES.

7. LABEL ALL PIECES OF EQUIPMENT WITH MARK MATCHING SCHEDULE OR EQUIPMENT LIST WITH ENGRAVED PLASTIC LABELS WITH MINIMUM 1/4" HIGH LETTERS. LABELS EXPOSED TO WEATHER SHALL BE ENGRAVED BRASS.

8. PRIME AND PAINT ALL EXPOSED PIPING PER ARCHITECTURAL SPECIFICATIONS. PAINT SHALL NOT EXCEED THE FOLLOWING VOLATILE ORGANIC COMPOUND CONTENT LIMITS: FLATS < 50 GRAMS PER LITER, NON-FLATS < 100 GRAMS PER LITER.

9. COORDINATE WITH ELECTRICAL ON REQUIRED POWER OUTLETS AND LIGHT SWITCHES NEAR PLUMBING EQUIPMENT.

10. BRACE ALL PIPING IN MECHANICAL ROOMS THAT IS 1 1/4" NOMINAL OR LARGER. BRACE ALL PIPING 2 1/2" NOMINAL OR LARGER. PIPING SUSPENDED BY INDIVIDUAL HANGERS 12" OR LESS IN LENGTH, AS MEASURED FROM THE TOP OF THE PIPE TO THE BOTTOM OF THE SUPPORT WHERE THE HANGER IS ATTACHED, NEED NOT BE BRACED.

11. ALL PIPING, VALVES, EQUIPMENT, ETC. SHOWN IS NEW UNLESS OTHERWISE NOTED.

PLUMBING GENERAL NOTES:

1. SEE ARCHITECTS PLANS AND DETAILS FOR ACCESSIBLE PLUMBING FIXTURE MOUNTING HEIGHTS, ETC.

2. ACCESSIBLE FIXTURES SHALL HAVE LEVER OR PUSH TYPE OPERATORS THAT REQUIRE LESS THAN FIVE (5) POUNDS FORCE TO ACTIVATE.

3. OPERATING CONTROLS FOR ACCESSIBLE FIXTURES TO BE OPERABLE WITH ONE HAND, NO TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST.

4. FAUCETS WITH SELF-CLOSING VALVES SHALL REMAIN OPEN FOR NO LESS THAN 10 SECONDS AND NO MORE THAN 15 SECONDS.

5. INSULATE ALL PIPING UNDER ACCESSIBLE FIXTURES AND COVER ANY SHARP OR ABRASIVE SURFACES WITH PROTECTIVE PIPE COVERS.

6. ALL PLUMBING VENTS THROUGH ROOF SHALL OFFSET ABOVE CEILING AND NOT PENETRATE WALL TOP PLATE.

7. MAXIMUM DEPTH OF ACCESSIBLE SINKS SHALL BE 6 1/2".

DSA GENERAL NOTES

1. THE INTENT OF THE CONTRACT DOCUMENTS IS TO MODERNIZE AN EXISTING BUILDING. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS, A CONSTRUCTION CHANGE DOCUMENT DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.

2. LATERAL SUPPORT FOR PIPE AND DUCTS TO COMPLY WITH SMACNA "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING SYSTEMS".

3. THE SEISMIC SUPPORT AND ANCHORAGE OF THE EQUIPMENT DESCRIBED ON THESE DRAWINGS HAVE BEEN ENGINEERED BY THE ENGINEER OF RECORD FOR CONFORMANCE WITH APPROPRIATE BUILDING CODES. THE ENGINEER OF RECORD WAS NOT RESPONSIBLE FOR THE EQUIPMENT DESIGN.

4. ALL MECHANICAL AND PLUMBING EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE CRITERIA FROM CHAPTER 16A CALIFORNIA BUILDING CODE (CBC) 2016.

5. WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER AND THE FIELD REPRESENTATIVE OF THE DIVISION OF THE STATE ARCHITECT.

COMPONENT ANCHORAGE NOTES

ALL MECHANICAL AND PLUMBING COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTERS 13, 26, AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (EG HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICAL, GAS, OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING MECHANICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

1. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4'-0" OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORTS THE EQUIPMENT.
2. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING AND DUCTWORK DISTRIBUTION SYSTEM BRACING NOTES

PIPING AND DUCTWORK DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6., 13.6.8, 13.6.7, AND 2016 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25, AND 1616A.1.26.

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPA #) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318-14, CHAPTER 17.

COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPING AND DUCTWORK DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

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LEGEND, SCHEDULES AND NOTES - PLUMBING

RUSSO-McENTEE ACADEMY- HVAC UPGRADES
2851 GAY AVE., SAN JOSE, CA 95127
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

REVISIONS

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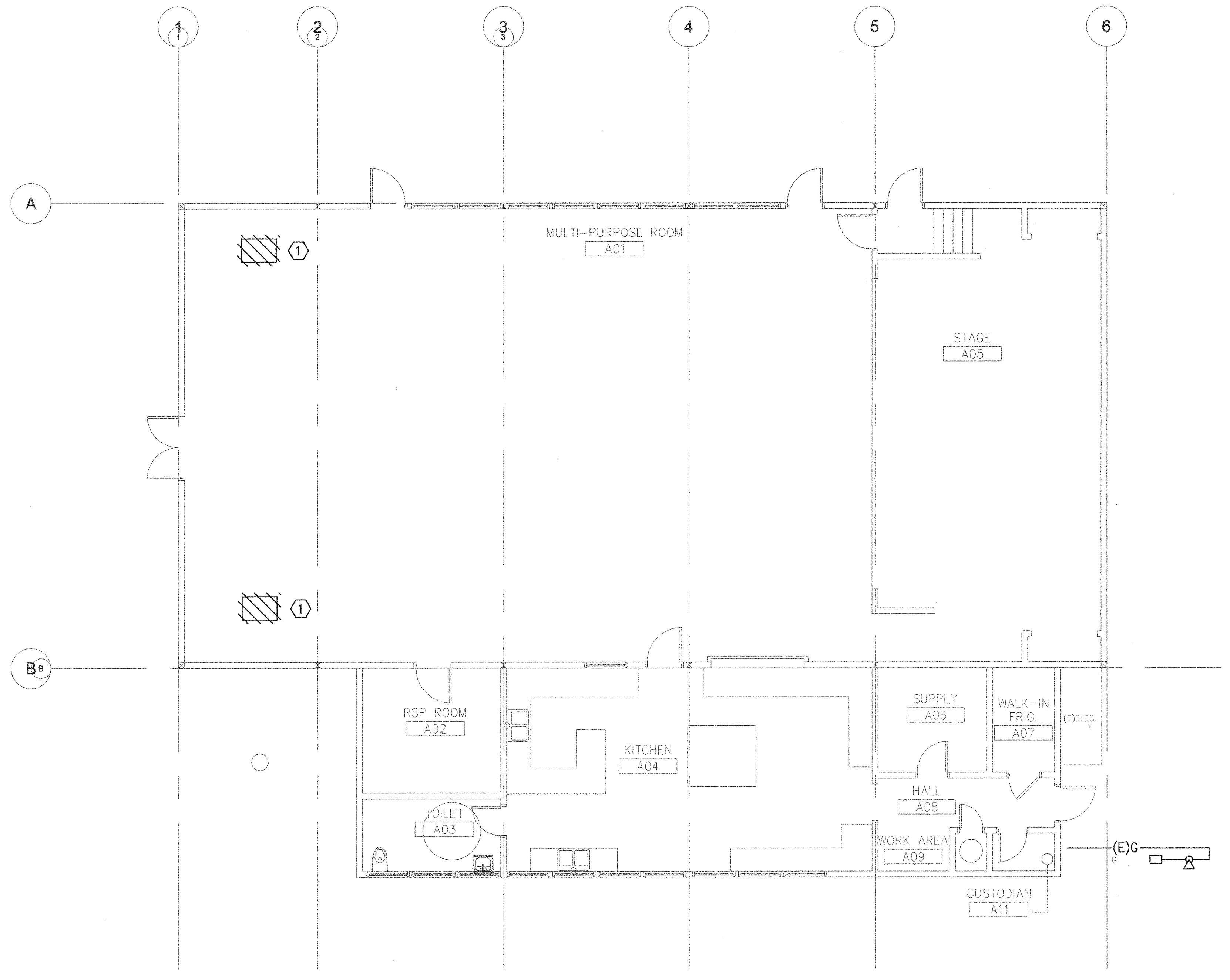
Xrefs: PLBMP-MAIN.DWG, MASMP-BKG.DWG, MAS-BORD.DWG,

DEMOLITION KEY NOTES:

⟨1⟩ DISCONNECT (E) GAS FROM (E) HEATER AND REMOVE (E) GAS. CAP ON ROOF.

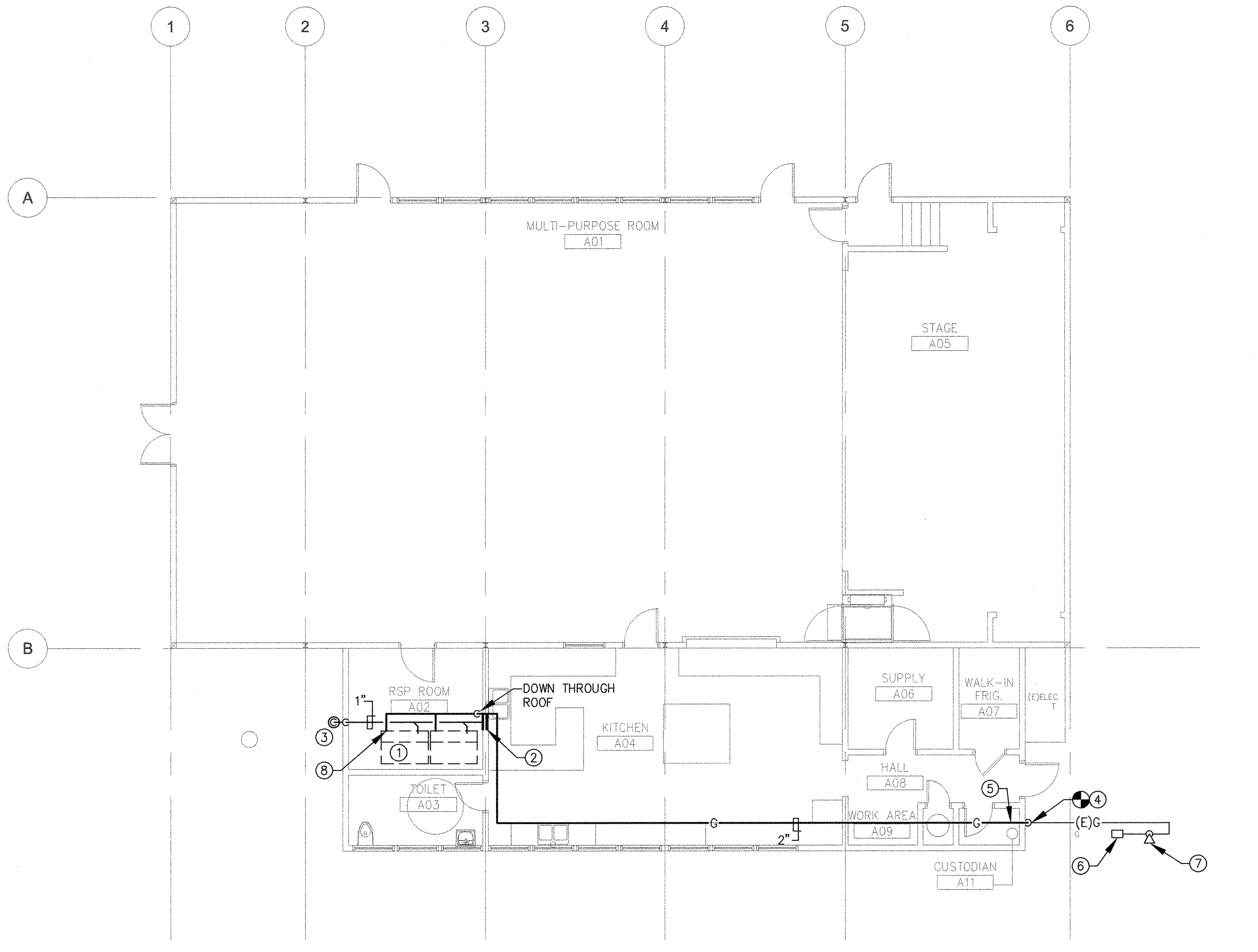
KEY NOTES:

① ALL CD PIPING TO INDIVIDUAL UNITS SHALL BE 1", TYP.
② CONDENSATE CLEANOUT
③ DROP CONDENSATE TO DRY WELL, SEE DETAIL 1/P0.1
④ POINT OF CONNECTION TO (E) GAS ABOVE GRADE
⑤ RUN GAS ON ROOF ABOVE KITCHEN
⑥ (E) GAS METER
⑦ (E) GAS BUILDING SHUT-OFF VALVE
⑧ FOR GAS CONNECTION TO UNIT, SEE 2/P0.1



MULTI-PURPOSE AND KITCHEN WING A, BLDG 1 - PLUMBING DEMOLITION

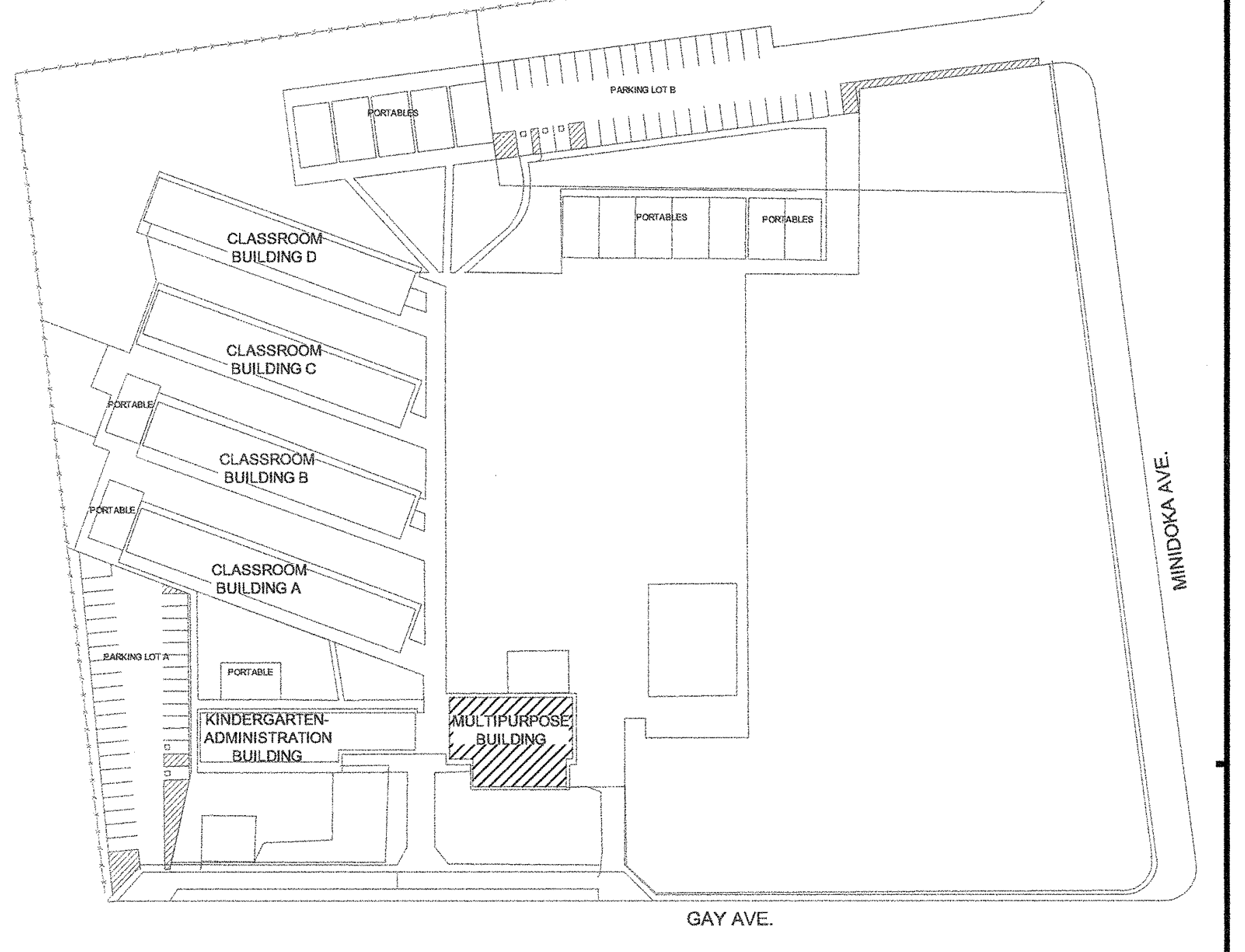
SCALE: 1/8" = 1'-0"



MULTI-PURPOSE AND KITCHEN WING A, BLDG 1 - PLUMBING

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

BUILDING KEY



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BUILDING 1 MULTI-PURPOSE AND KITCHEN WING A - FLOOR PLANS PLUMBING

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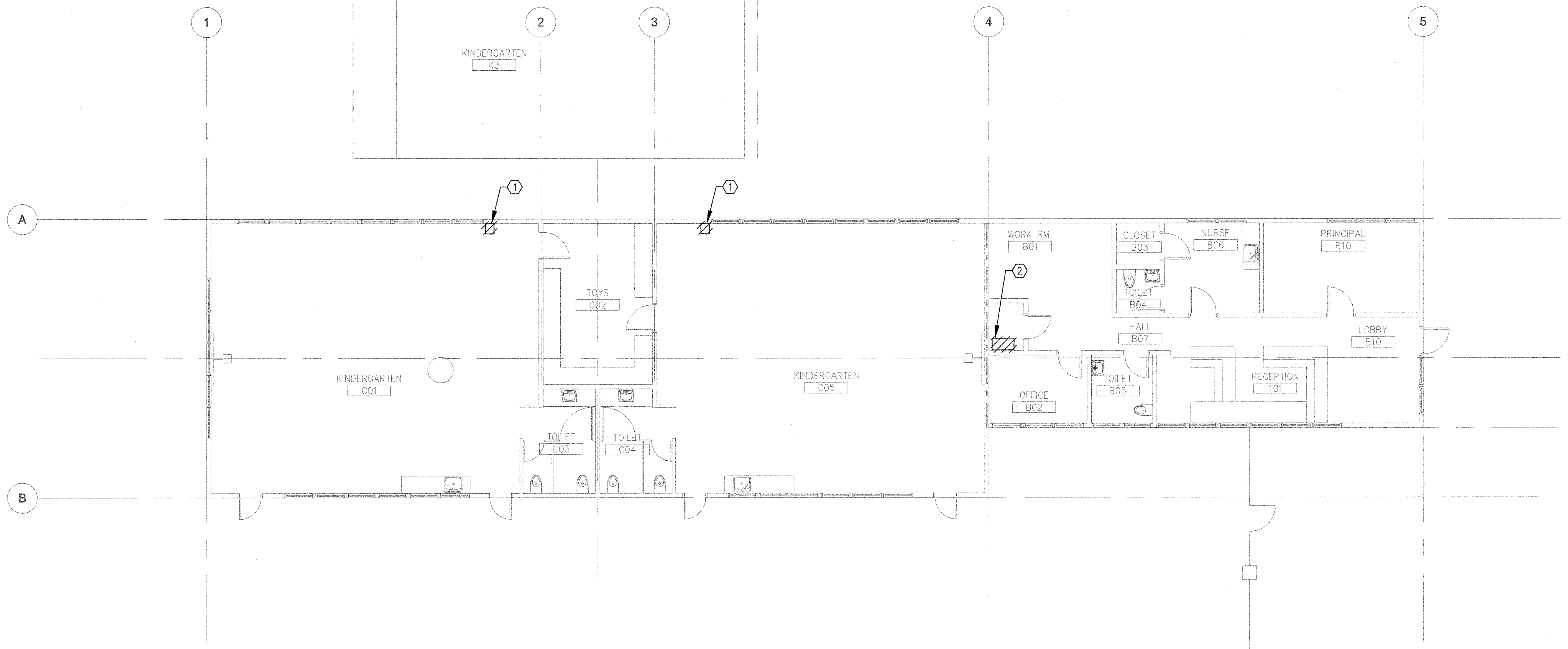


ADMINISTRATION - KINDERGARTEN BUILDING - PLUMBING DEMOLITION

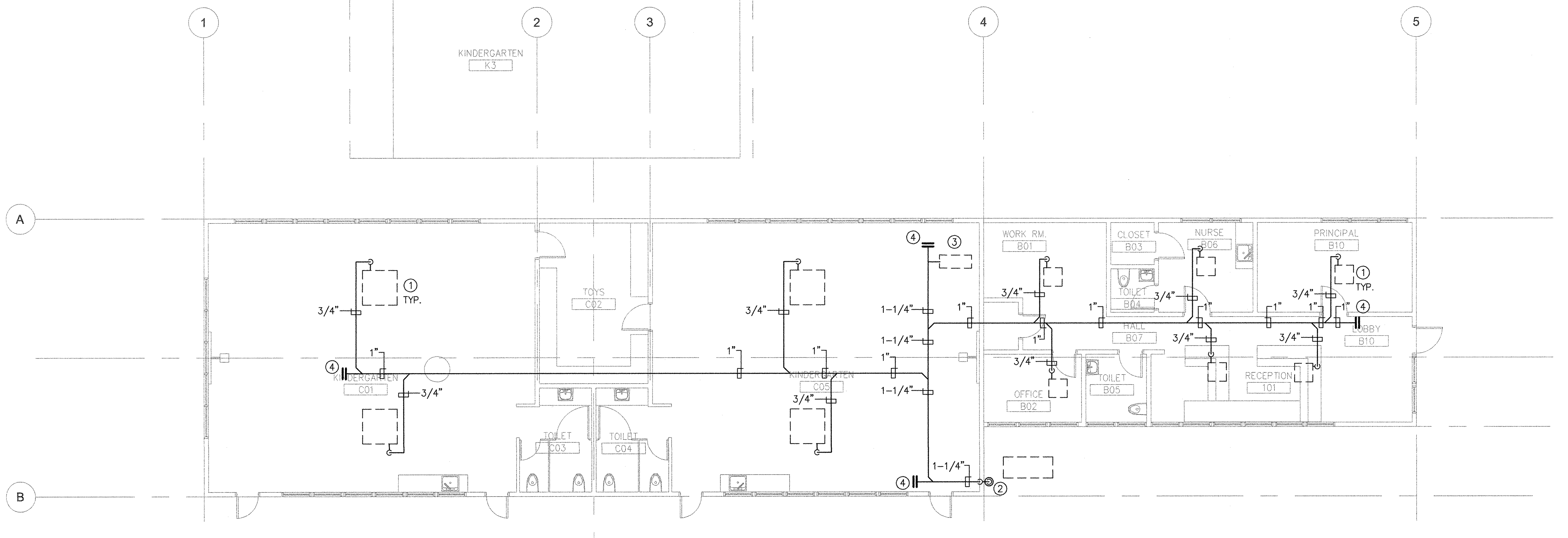
SCALE: 1/8" = 1'-0"

TRUE NORTH
REF NORTH

DEMOLITION KEY NOTES:

① DISCONNECT (E) GAS FROM (E) HEATER AND REMOVE (E) GAS AND CAP ON ROOF.

② DISCONNECT (E) GAS FROM (E) FURNACE AND REMOVE (E) GAS AND CAP ON ROOF.



ADMINISTRATION - KINDERGARTEN BUILDING - PLUMBING

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

TRUE NORTH
REF NORTH

KEY NOTES:

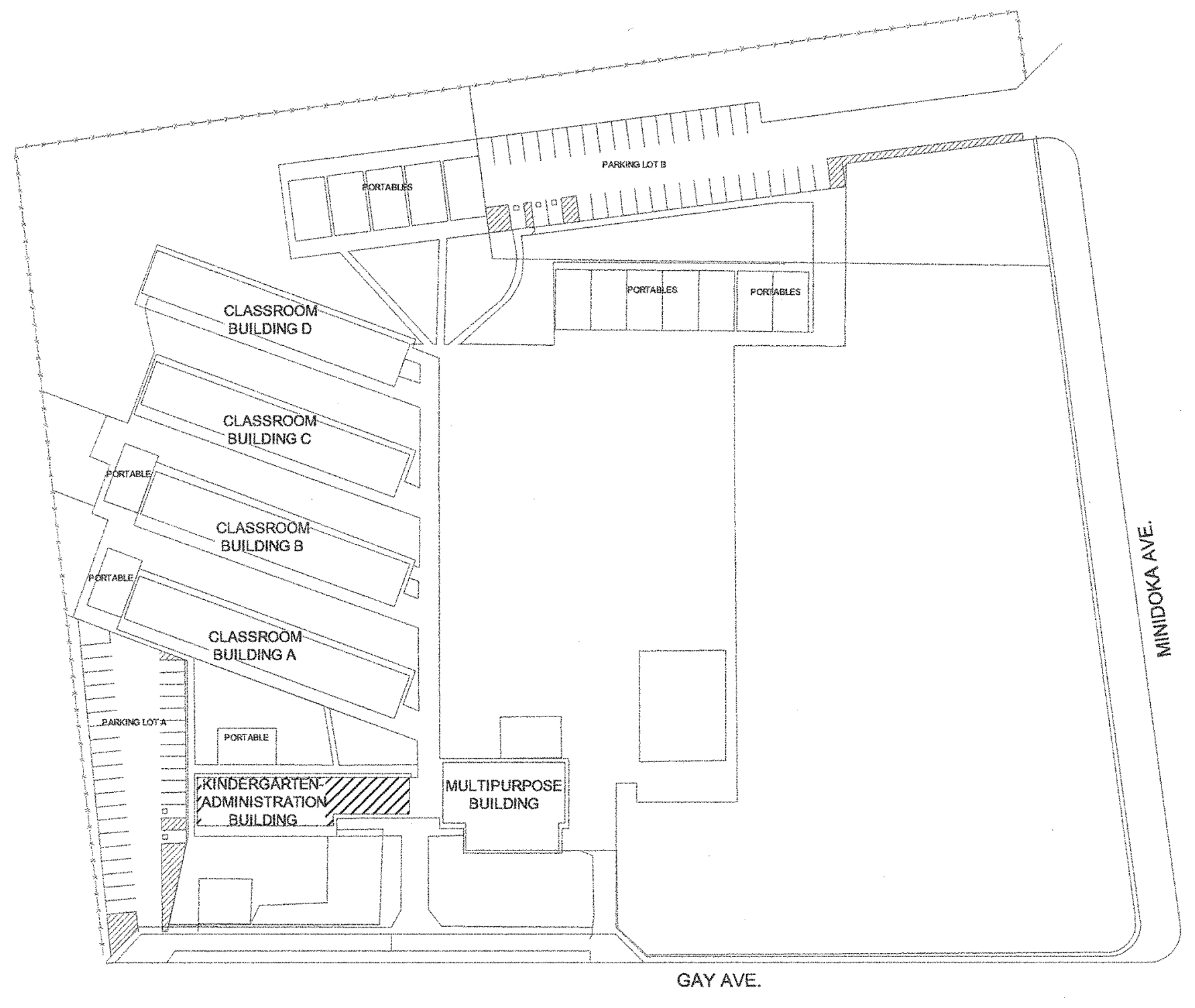
① FAN COIL UNIT, SEE MECHANICAL DRAWINGS.

② DROP CONDENSATE TO DRY WELL, SEE DETAIL 1/P0.1.

③ BRANCH CONTROLLER, SEE MECHANICAL DRAWINGS.

④ CONDENSATE CLEAN OUT

BUILDING KEY



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ADMINISTRATION - KINDERGARTEN BUILDING - FLOOR PLANS PLUMBING

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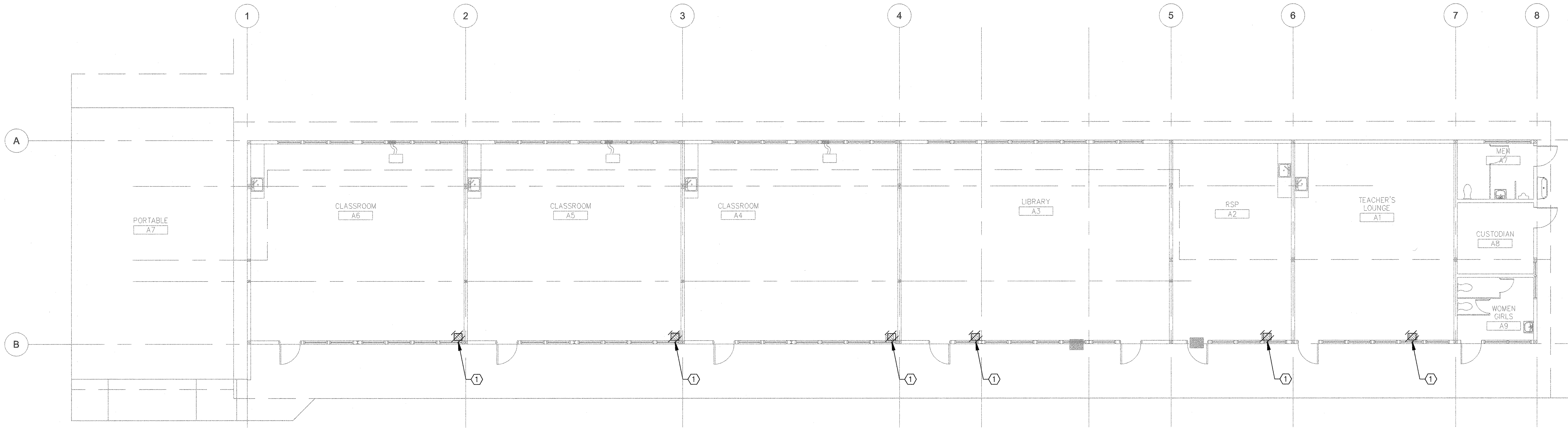
DEMOLITION NOTES:

① DISCONNECT (E) GAS FROM (E) HEATER AND REMOVE (E) GAS AND CAP ON ROOF.



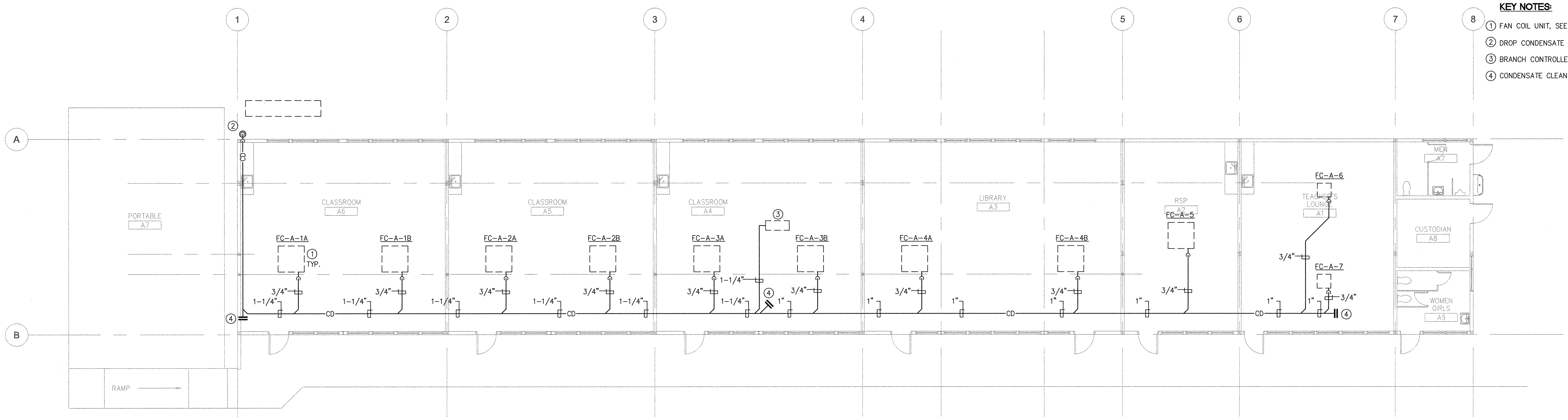
UNIT A CLASSROOMS, LIBRARY - PLUMBING DEMOLITION

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

RSP NORTH TRUE NORTH

KEY NOTES:

① FAN COIL UNIT, SEE MECHANICAL DRAWINGS.
② DROP CONDENSATE TO DRY WELL, SEE DETAIL 1/P0.1.
③ BRANCH CONTROLLER, SEE MECHANICAL DRAWINGS.
④ CONDENSATE CLEAN OUT

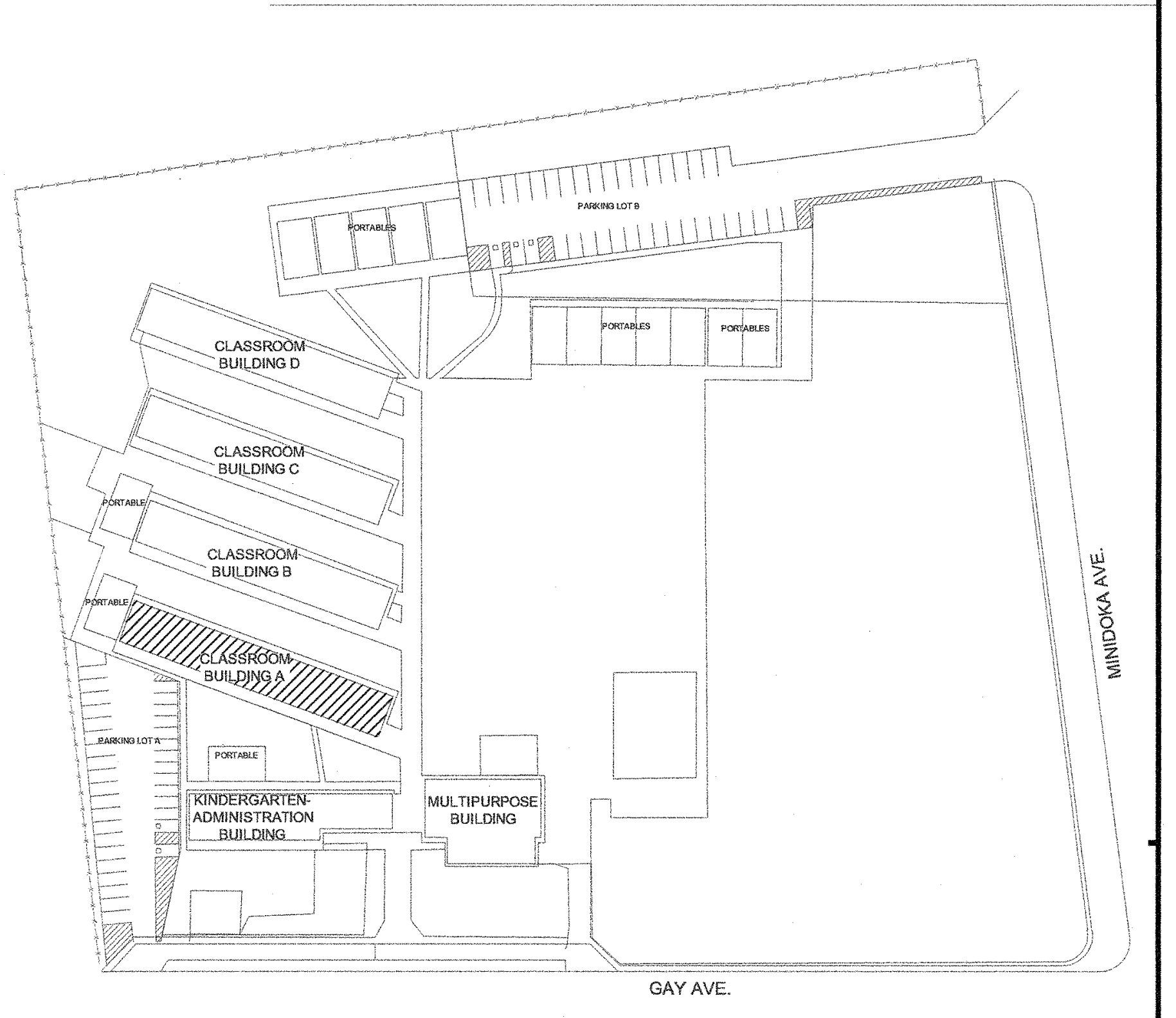


UNIT A CLASSROOMS, LIBRARY - PLUMBING

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

RSP NORTH TRUE NORTH

BUILDING KEY



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UNIT A CLASSROOMS - LIBRARY - FLOOR PLANS PLUMBING

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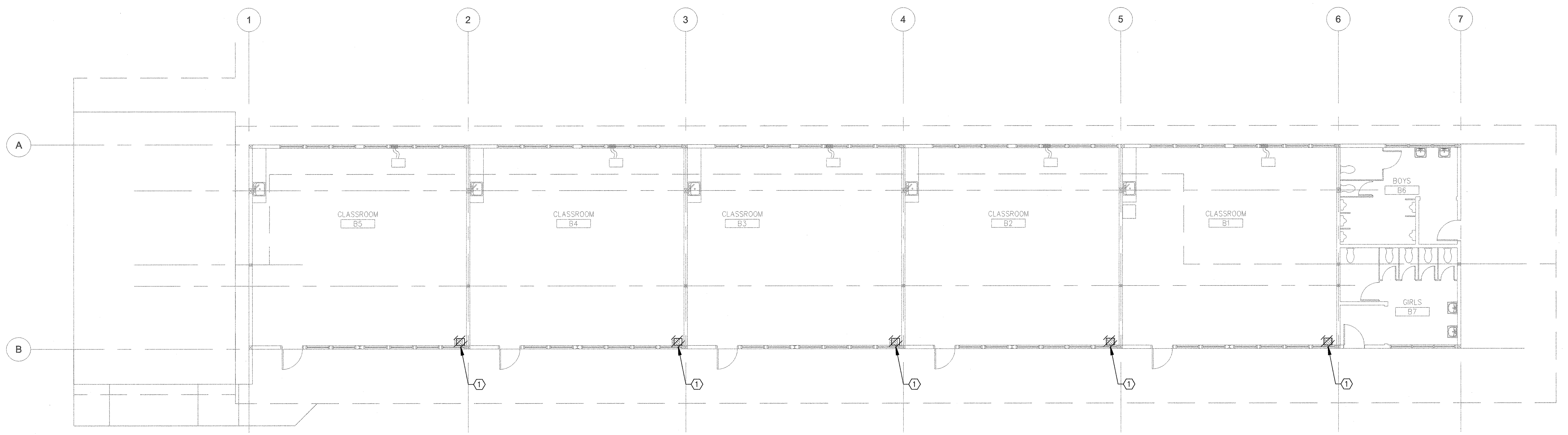
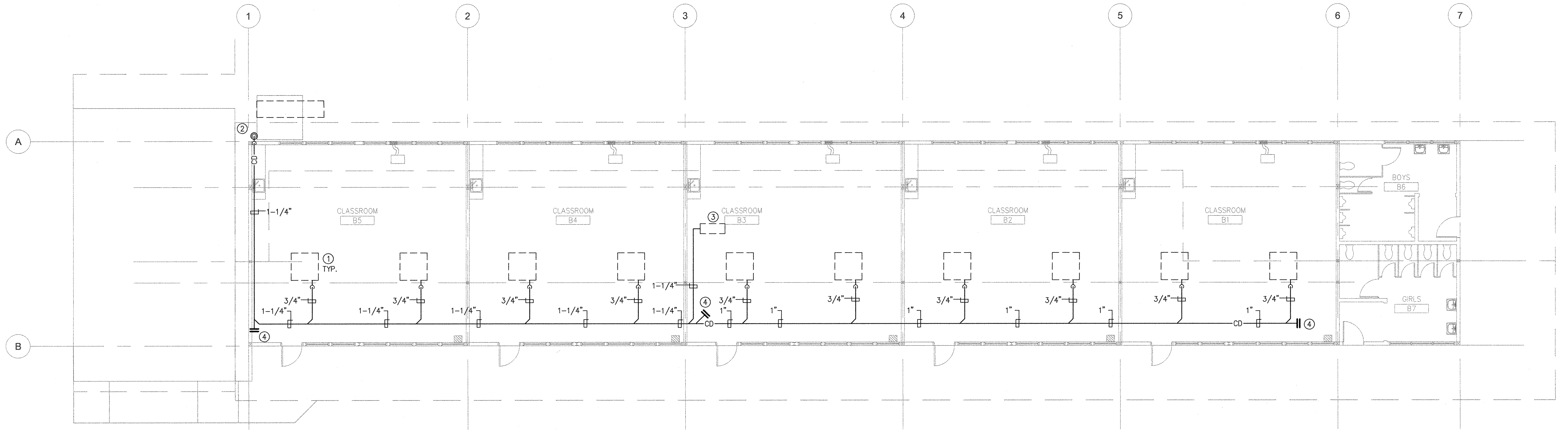


UNIT B CLASSROOMS - PLUMBING DEMOLITION

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

DEMOLITION KEY NOTES:

1. DISCONNECT (E) GAS FROM (E) HEATER AND REMOVE (E) GAS AND CAP ON ROOF.



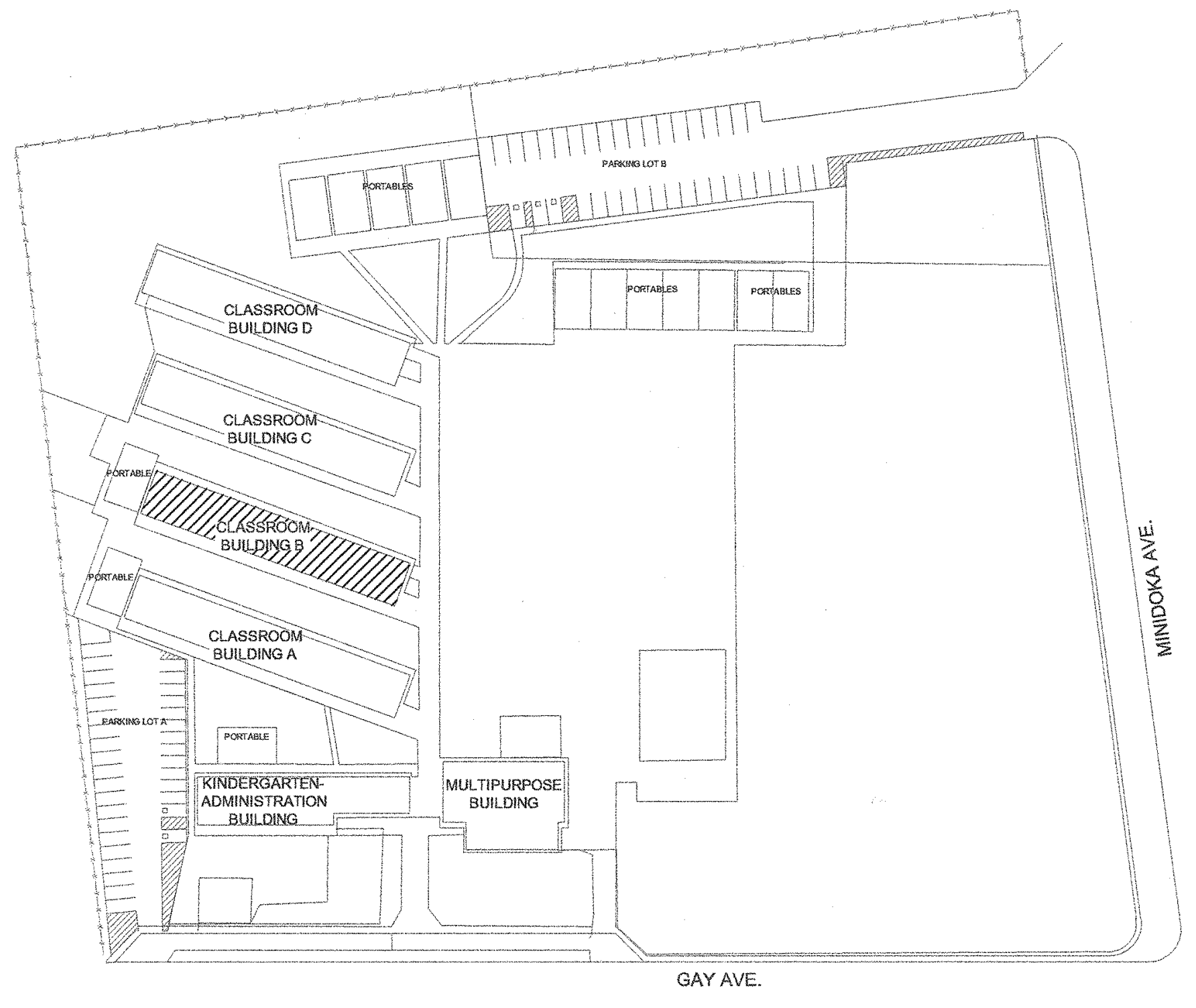
UNIT B CLASSROOMS - PLUMBING

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

KEY NOTES:

① FAN COIL UNIT, SEE MECHANICAL DRAWINGS.
② DROP CONDENSATE TO DRY WELL, SEE DETAIL 1/P0.1.
③ BRANCH CONTROLLER, SEE MECHANICAL DRAWINGS.
④ CONDENSATE CLEAN OUT

BUILDING KEY



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UNIT B CLASSROOMS -
FLOOR PLANS PLUMBING

RUSSO-McENTEE ACADEMY- HVAC UPGRADES
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ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

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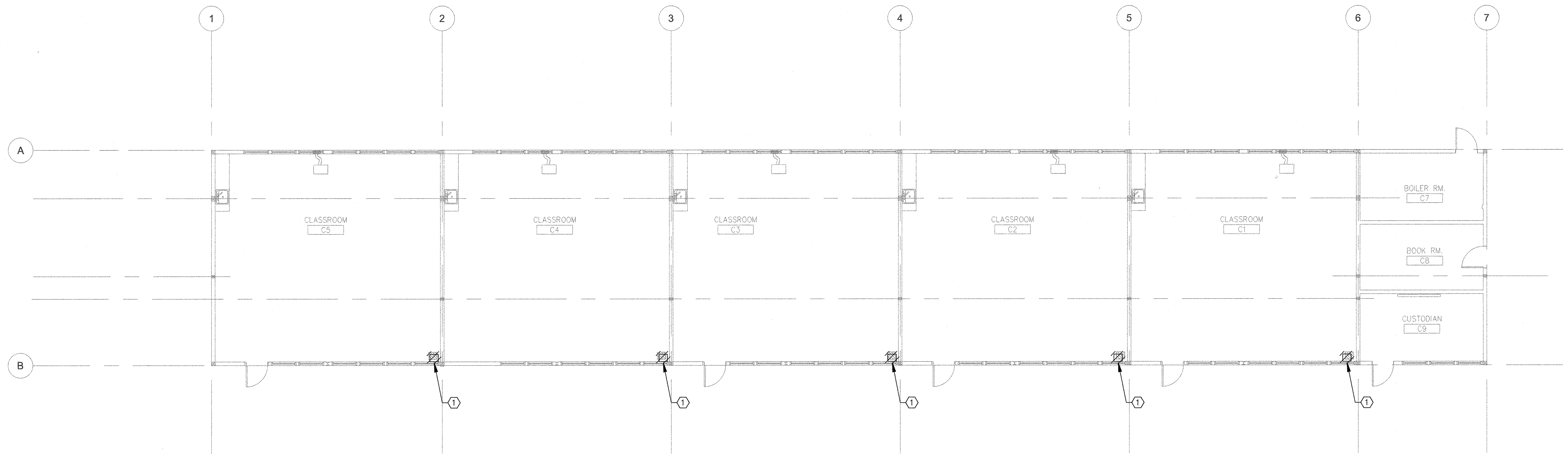


UNIT C CLASSROOMS – PLUMBING DEMOLITION

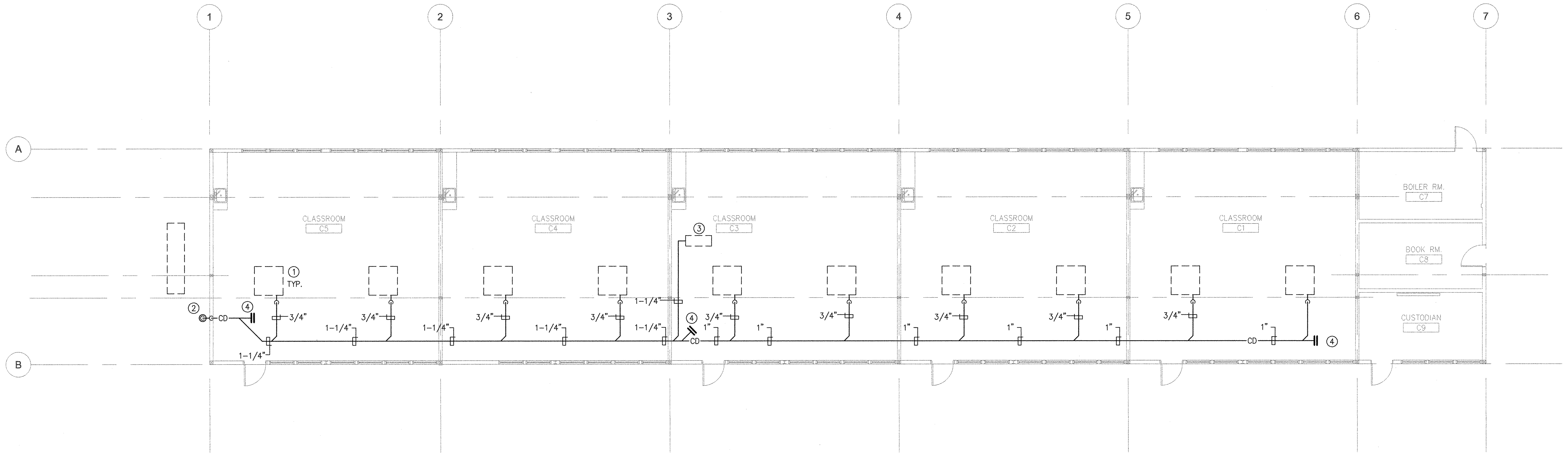
SCALE: 1/8" = 1'-0"

DEMOLITION KEY NOTES:

⟨1⟩ DISCONNECT (E) GAS FROM (E) HEATER AND REMOVE (E) GAS AND CAP ON ROOF.

KEY NOTES:

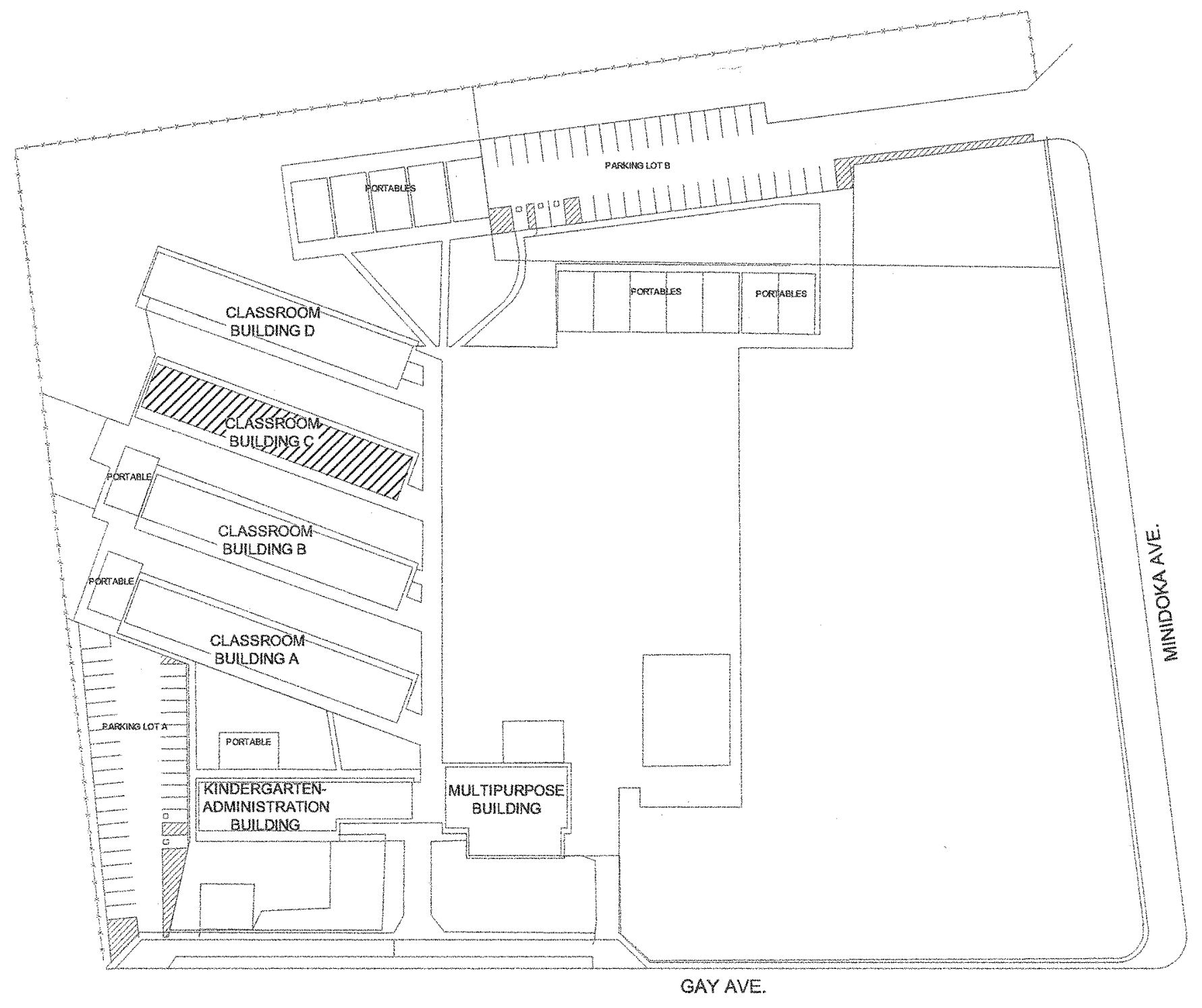
① FAN COIL UNIT, SEE MECHANICAL DRAWINGS.
② DROP CONDENSATE TO DRY WELL, SEE DETAIL 1/P0.1.
③ BRANCH CONTROLLER, SEE MECHANICAL DRAWINGS.
④ CONDENSATE CLEAN OUT



UNIT C CLASSROOMS – PLUMBING

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

BUILDING KEY



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UNIT C CLASSROOMS -
FLOOR PLANS PLUMBING

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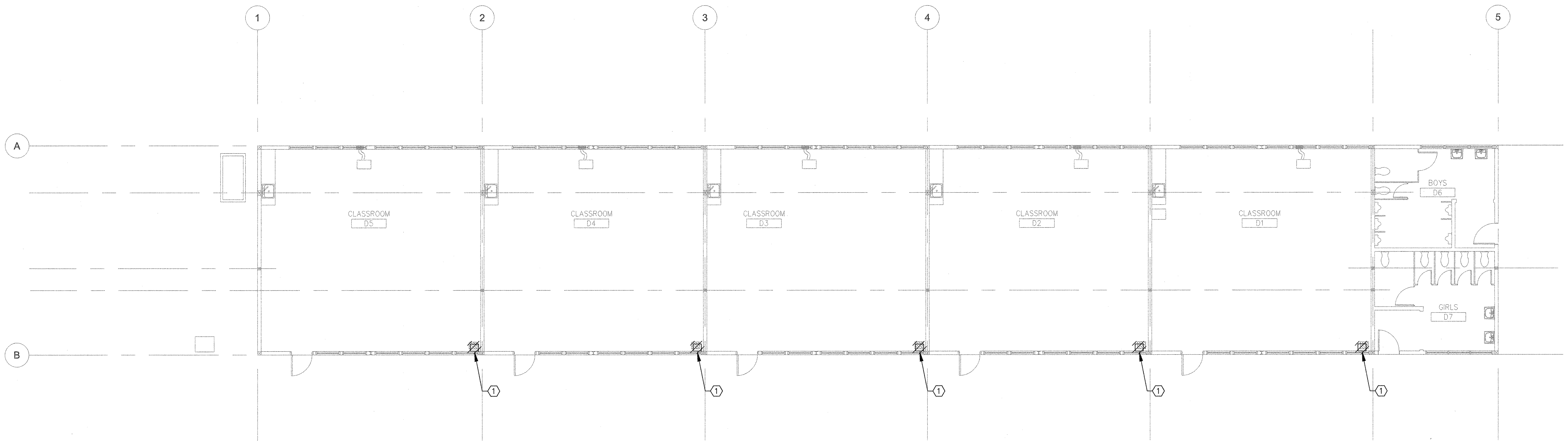
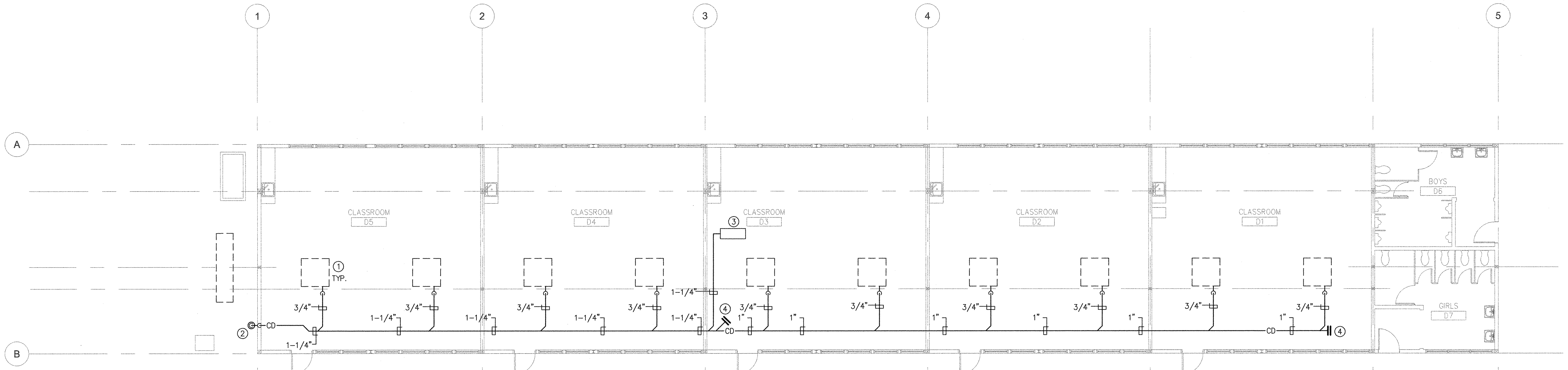


UNIT D CLASSROOMS - PLUMBING DEMOLITION

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

DEMOLITION KEY NOTES:

⟨1⟩ DISCONNECT (E) GAS FROM (E) HEATER AND REMOVE (E) GAS AND CAP ON ROOF.



UNIT D CLASSROOMS - PLUMBING

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

KEY NOTES:

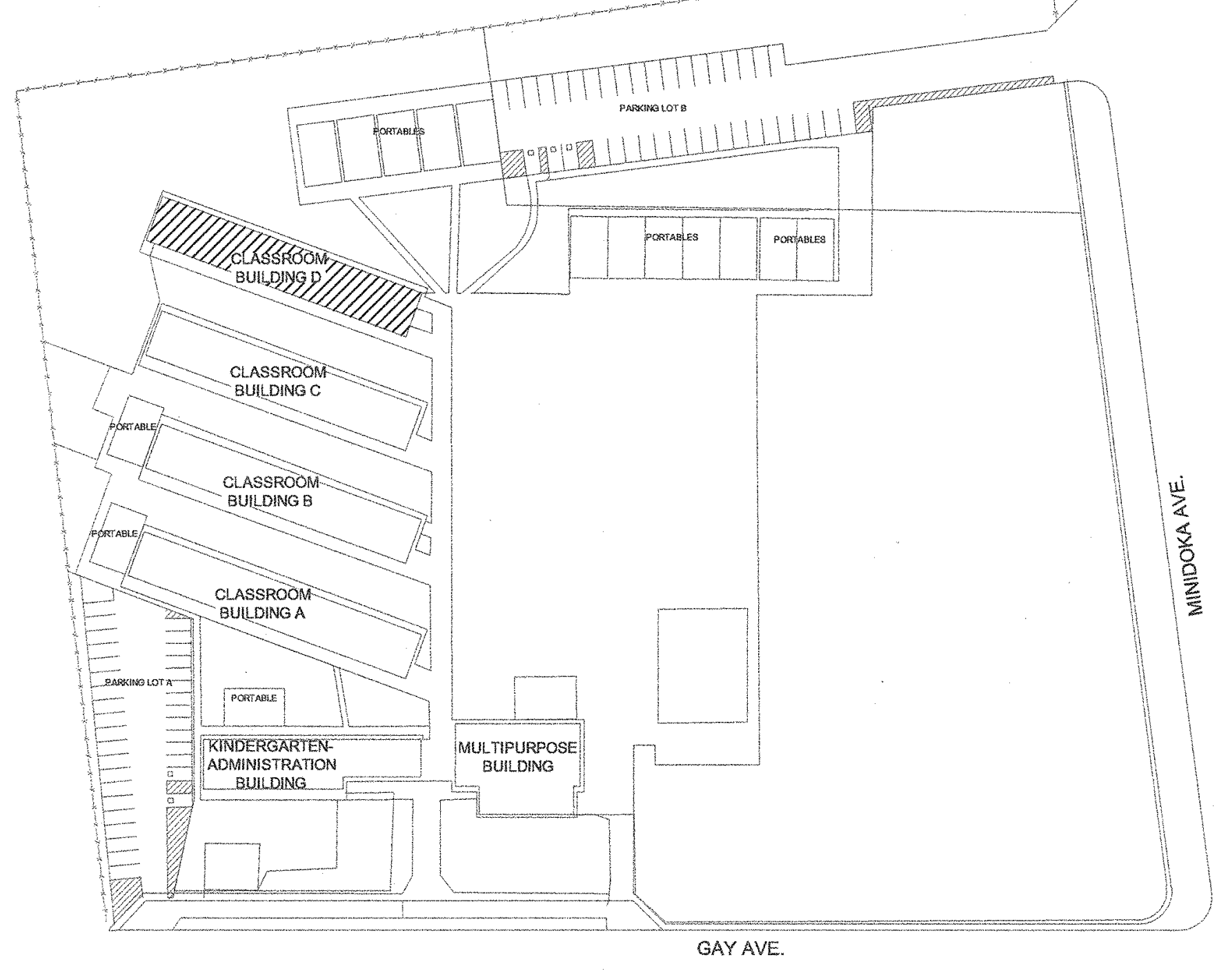
① FAN COIL UNIT, SEE MECHANICAL DRAWINGS.

② DROP CONDENSATE TO DRY WELL, SEE DETAIL 1/P0.1.

③ BRANCH CONTROLLER, SEE MECHANICAL DRAWINGS.

④ CONDENSATE CLEAN OUT

BUILDING KEY



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UNIT D CLASSROOMS - FLOOR PLANS PLUMBING

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	BID SET	04-09-18

DSA FILE NUMBER 43-04

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APPL 01-117267

AC KQ FLS MS SS ON
DATE MAY 2 2 2018

DRAWN BY:	CADD
CHECKED BY:	MS
JOB NO:	DATE:
17102	04/09/2018

P2.6

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May 14, 2018 9:29:36 a.m.
Drawing: H:\PROJ2017\20170293\DRAWINGS\LNA-FILS\PLB-P26.DWG
Xrefs: PLBD-MAIN.DWG, MASD-BKG.DWG, MAS-BORD.DWG,

ELECTRICAL SYMBOLS

○	SURFACE OR PENDANT MOUNTED FIXTURE AND OUTLET	REFER TO FIXTURE SCHEDULE FOR EXACT TYPE
⊢○	WALL MOUNTED FIXTURE AND OUTLET	
▣	CEILING RECESS MOUNTED FIXTURE AND OUTLET	
◨	CEILING RECESS MOUNTED WALL WASHER FIXTURE	
□ ▯ ▯	LIGHT FIXTURE	◪ DENOTES FIXTURE W/BATTERY PACK BACK-UP UNIT (EMERGENCY LIGHT)
⊢—⊣	STRIP FIXTURE	
⊗	UNIVERSAL MOUNTED EXIT FIXTURE AND OUTLET	PROVIDE ARROW AND NUMBER OF FACES AS REQUIRED "L" DENOTES LOW LEVEL
⊢⊗	WALL RECESS OR SURFACE MOUNTED EXIT FIXTURE AND OUTLET.	
⬡	FIXTURE IDENTIFICATION TAG – SEE SCHEDULE	
$a	1 POLE, 20A SPECIFICATION GRADE SWITCH. MOUNTED +44" U.O.N. a INDICATES LAMP SWITCHING.	
$3	3 WAY, 20A SPECIFICATION GRADE SWITCH MOUNTED +44" U.O.N.	
$4	4 WAY, 20A SPECIFICATION GRADE SWITCH MOUNTED +44" U.O.N.	
$M	MOMENTARY CONTACT SWITCH MOUNTED +44" U.O.N.	
$K	KEY OPERATED SWITCH	
$T	MANUAL MOTOR STARTER SWITCH FOR 3/4HP MOTORS AND BELOW	
⊢D	LED 0–10v DIMMING SWITCH WATT STOPPER DCLV1 WITH BZ POWER PACK OR EQUAL MOUINTED +44" U.O.N.	
D	LED 0–10V LUTRON DIMMING SWITCH WATT STOPPER LMDM–101 MOUINTED +44" U.O.N.	
RC	DIGITAL ROOM CONTROLLER MOUNTED ABOVE CEILING. WATT STOPPER LMRC–212/213	
PC	PHOTOELECTRIC CONTROL	
OS W	CEILING MOUNTED OCCUPANCY SENSOR WITH POWER PACK, W DENOTES WALL MOUNTED AT +8' AFF U.O.N..	
OS W	CEILING MOUNTED OCCUPANCY SENSOR WITH NO POWER PACK, W DENOTES WALL MOUNTED AT +8' AFF U.O.N.	
⊢OD	WALL MOUNTED OCCUPANCY SENSOR WITH OVERRIDE DIMMING SWITCH. MOUNTED +44" U.O.N. LUTRON MS–Z101–WH OR EQUAL	
⊢OS	WALL MOUNTED OCCUPANCY SENSOR WITH DUAL OVERRIDE SWITCHES. MOUNTED +44" U.O.N.	
⊢OS	WALL MOUNTED OCCUPANCY SENSOR WITH SINGLE ON/OFF SWITCH. MOUNTED +44" U.O.N.	
PP	OCCUPANCY SENSOR POWER PACK	
Ⓙ	JUNCTION BOX WITH COVER	
⊢⊳	SPECIAL RECEPTACLE OUTLET. AMPERE, VOLTAGE, PHASE AND NEMA RATING AS NOTED ON THE DRAWINGS	
⊢⊖	20A–120V DUPLEX RECEPTACLE OUTLET, NEMA 520R SPECIFICATION GRADE. WALL MOUNTED +18" U.O.N.	
⊢⊖	20A–120V DUPLEX RECEPTACLE OUTLET, NEMA 520R SPECIFICATION GRADE. MOUNTED ABOVE COUNTER SPLASH	
⊢⊕	20A–120V QUADRUPLEX RECEPTACLE OUTLET, NEMA 520R SPECIFICATION GRADE. MOUNTED ABOVE COUNTER SPLASH	
⊖	20A–120V CEILING MOUNTED DUPLEX RECEPTACLE OUTLET, NEMA 520R SPECIFICATION GRADE	
⊗	20A–120V CEILING MOUNTED QUADRUPLEX RECEPTACLE OUTLET NEMA 520R SPECIFICATION GRADE	
⊟	20A–120V DUPLEX FLOOR RECEPTACLE OUTLET	
⊢⊕	20A–120V TWO DUPLEX RECEPTACLE OUTLET IN ONE COVER PLATE. WALL MOUNTED +18" U.O.N.	
⊢⊟	20A–120V DUPLEX RECEPTACLE OUTLET FLUSH MOUNTED ON WIREMOLD.	
⊢⊞	20A–120V TWO DUPLEX RECEPTACLE OUTLET FLUSH MOUNTED ON WIREMOLD.	
◉	FLOOR MOUNTED POWER FEED MONUMENT OR POKE THROUGH	
— PD —	SURFACE MOUNTED NON–METALIC RACEWAY, 2 SECTION, 5 1/4" HIGH X 1 3/4" DEEP WITH COVER, WIREMOLD 5400 SERIES OR HUBBELL EQUAL WITH INLINE DUPLEX RECEPTACLES AND DATA OUTLET AS SHOWN AND ENTRANCE END FITTING ACCESSORIES FOR CONCEALED CONDUIT CONNECTION, U.O.N. MOUNT BOTTOM OF WIREMOLD AT +30" AFF.	
⬡	MECHANICAL EQUIPMENT TAG – SEE MECHANICAL EQUIPMENT SCHEDULE	
Ø	MOTOR CONNECTION	
⊠□	COMBINATION MAGNETIC MOTOR STARTER WITH NON–AUTOMATIC CIRCUIT BREAKER	
⊠	COMBINATION MAGNETIC MOTOR STARTER WITH FUSED DISCONNECT SWITCH	
□	HEAVY–DUTY FUSED DISCONNECT SWITCH, N.F. DENOTES NON FUSED, MOUNTED +6'–6" MAXIMUM	
□	MECHANICAL PACKAGED EQUIPMENT WITH INTEGRAL STARTER AND CONTROL PANEL	
VFD	VARIABLE FREQUENCY DRIVE CONTROLLER, PROVIDED BY MECH.	
▬	FLUSH MOUNTED PANELBOARD – SEE SCHEDULES	
▬	SURFACE MOUNTED PANELBOARD – SEE SCHEDULES	
▨	SWITCHBOARD, DISTRIBUTION PANEL, MCC – SEE SINGLE LINE DIAGRAM	
▭	RECESS MOUNTED TERMINAL CABINET/CONTROL PANEL	
▭	SURFACE MOUNTED TERMINAL CABINET/CONTROL PANEL	
T	TRANSFORMER	
PC	PHOTOELECTRIC CONTROL	
P	POWER PULL BOX	
S	SIGNAL PULL BOX	

—◠—	CIRCUIT BREAKER	
—◠—▭	CIRCUIT BREAKER WITH CURRENT LIMITING FUSES – SIZE AS SHOWN ON PLANS	
∮	CURRENT TRANSFORMER	
W/H	WATT/HOUR METER	
VA	VOLT/AMP METER	
⊣	NEUTRAL LINK	
≋	TRANSFORMER	
◎	COPPER WELD GROUND ROD AND INSPECTION WELL – SEE TYPICAL DETAIL ON PLANS	
G —	BARE COPPER GROUND CABLE BURRIED 24" MINIMUM BELOW FINISH GRADE U.O.N.	
—///—	CONDUIT AND CONDUCTORS INSTALLED UNDERGROUND OR BELOW SLAB	╱● DENOTES GROUND WIRE CROSS LINES DENOTES QUANTITY OF #12 CONDUCTORS UNLESS NOTED OTHERWISE NO CROSS LINES DENOTES 2#12 & 1#12 G UNLESS NOTED OTHERWISE
—///—	CONDUIT AND CONDUCTORS CONCEALED IN WALL OR CEILING	
—///—	CONDUIT AND CONDUCTORS INSTALLED EXPOSED	
A–1 —///→	HOMERUN TO SWITCHBOARD, PANELBOARD, TERMINAL CABINET, ETC.	
——○	WIRING TURNED UP	
——●	WIRING TURNED DOWN	
——]	CONDUIT OR DUCT STUB AND CAP	
—▶—	CONDUIT SEAL CROUSE–HINDS "EYS"	
∿	FLEXIBLE RACEWAY	
◁ W	SINGLE JACK DATA OUTLET, CEILING MOUNTED FOR WIRELESS ACCESS WITH (1) CAT 6 CABLE TO BUILDING MDF/IDF AS SHOWN.	
◁	DUAL JACKS DATA OUTLET, CEILING MOUNTED WITH (2) CAT 6 CABLES TO BUILDING MDF/IDF AS SHOWN.	
MS	CEILING MOUNTED SECURITY MOTION SENSOR	
FSD	FIRE SMOKE DAMPER	
RM	FIRE SMOKE RELAY CONTROL MODULE	
☓	FIRE ALARM STROBE.	
□◁ WP	FIRE ALARM SPEAKER, OUTDOOR TYPE MOUNTED MIN. OF 90" AFF.	
⊠◁	FIRE ALARM SPEAKER/STROBE MOUNTED 80"-90" A.F.F.	
Ⓢ	SMOKE DETECTOR	
⏀	HEAT DETECTOR	
◇1	SHEET NOTE IDENTIFICATION TAG, SEE RESPECTIVE "SHEET NOTES"	

SCHOOL EQUIPMENT ANCHORAGE NOTE

ALL ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7–10 CHAPTER 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED PIPING, AND CONDUIT.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT

B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THESE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7–10 SECTION 13.3 AS DEFINED IN ASCE 7–10 SECTION 13.6.5.6, 13.6.7, 13.6.8 AND 2016 CBC, SECTIONS 1616A.1.24, 1616A 1.25 AND 1616A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE–APPROVED INSTALLATION GUIDE (e.g. SMACNA OR OSHPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS.

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE–APPROVALS (OPM OR OSP) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.

ELECTRICAL DISTRIBUTION SYSTEM:

☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

☐ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE–APPROVAL (OPM #) # ________.

☐ OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009), INCLUDING ANY ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL _____ AND CONNECTION LEVEL ______ FOR THE PROJECT AND CONDITIONS.

ABBREVIATIONS

A, AMPS	AMPERES
A/C	AIR CONDITIONER
AC	ALTERNATE CURRENT
AF	AMPERE FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTION CURRENT
AL	ALUMINUM
APP.	APPROXIMATE
ARCH	ARCHITECT/ARCHITECTURAL
AT	AMPERES TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
BKBD	BACKBOARD
BKR	BREAKER
BLDG	BUILDING
C	CONDUIT
CB	CIRCUIT BREAKER
CC	CENTER TO CENTER
CAB.	CABINET
CKT	CIRCUIT
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
CO	CONDUIT ONLY
CTR	CENTER
CU	COPPER
DC	DIRECT CURRENT
DET.	DETAIL
DIA	DIAMETER
DIST	DISTRIBUTION
DN	DOWN
DP	DISTRIBUTION PANEL
DWG	DRAWING
EMERG	EMERGENCY
EMS	ENERGY MANAGEMENT SYSTEM
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE/ENCLOSED
ELR	END–OF–LINE RESISTOR
EPO	EMERGENCY POWER OFF
EQ	EQUAL
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
<E>	EXISTING TO REMAIN
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPERES
FLEX	FLEXIBLE
FUT, <F>	FUTURE
G	GROUND
GALV	GALVANIZED
GRS	GALVANIZED RIGID STEEL
GFI	GROUND FAULT INTERRUPTER
HD	HEAT DETECTOR
HH	HANDHOLE
HID	HIGH INTENSITY DISCHARGE
HO	HIGH OUTPUT
HOA	HAND–OFF–AUTO
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HSP	HOUSE SERVICE PANEL
HV	HIGH VOLTAGE
HZ	HERTZ
IC	INTERCOM
ISC	INTERRUPTING SHORT CIRCUIT
IG	ISOLATED GROUND
INST	INSTANTANEOUS
JB	JUNCTION BOX
KCMIL	KILO CIRCULAR MILLS
KV	KILOVOLTS
KVA	KILOVOLT–AMPERES
KW	KILOWATTS
KWH	KILOWATT–HOURS
LCP	LIGHTING CONTROL PANEL
LPS	LOW PRESSURE SODIUM
LTG	LIGHTING
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
MFG	MANUFACTURING
MFR	MANUFACTURER
MECH	MECHANICAL
MH	MANHOLE
MIC	MICROPHONE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MTG. HT.	MOUNTING HEIGHT
MSB	MAIN SWITCHBOARD
MSG	MAIN SWITCH GEAR
<N>	NEW
N	NEUTRAL
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN, NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OH	OVERHEAD
P	POLE
PH, ø	PHASE
PA	PUBLIC ADDRESS
PB	PUSHBUTTON
PDU	POWER DISTRIBUTION UNIT
PNL	PANEL
PVC	POLYVINYL CHLORIDE
<R>	REMOVED
<RE>	NEW LOCATION OF RELOCATED DEVICE
REC	RECEPTACLE
REQ'D	REQUIRED
<RL>	EXISTING TO BE RELOCATED
RS	RAPID START
RSC	RIGID STEEL CONDUIT
SEC	SECONDARY
SN	SOLID NEUTRAL
SPECS	SPECIFICATIONS
STD	STANDARD
SWBD	SWITCHBOARD
TEL	TELEPHONE
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
V	VOLTS
VA	VOLT–AMPERES
W	WATTS, WIRE
WH	WATER HEATER
WP	WEATHERPROOF
WT	WATERTIGHT
XFMR	TRANSFORMER
XP	EXPLOSION PROOF
+4–6"	TYPICAL MOUNTING HEIGHT 4'–6" ABOVE FLOOR OR GRADE TO CENTER OF BOX

GENERAL NOTES

1. ALL ELECTRICAL WORK SHALL COMPLY WITH THE CURRENT APPROVED EDITION OF THE NATIONAL ELECTRICAL CODE, AS ACCEPTED AND AMENDED BY LOCAL ORDINANCES.
2. ANY EQUIPMENT AND MATERIALS FURNISHED BY THE CONTRACTOR SHALL BE NEW, UNUSED AND FREE FROM DEFECTS.
3. CONTRACTOR SHALL VERIFY FINAL PLACEMENT AND CONNECTION REQUIREMENTS PRIOR TO ROUGHING IN EQUIPMENT UTILITIES.
4. FINAL ACCEPTANCE OF WORK IN PLACE SHALL BE SUBJECT TO APPROVAL BY OWNER'S REPRESENTATIVE AND ARCHITECT/ENGINEER. INSTALLATION APPROVAL SHALL BE BASED ON APPROVED SUBMITTAL, SHOP DRAWINGS AND LOCAL INSPECTIONS.
5. ALL WORK SHOWN ON DRAWINGS IS IN PART SCHEMATIC, INTENDED TO CONVEY SCOPE OF WORK AND GENERAL LAYOUT. VERIFY ALL EXISTING CONDITIONS AND MAKE ADJUSTMENTS AS REQUIRED.
6. CONTRACTOR SHALL PROVIDE UPDATED/CORRECTED PANEL DIRECTORIES WITHIN EACH PANELBOARD PRIOR TO FINAL ACCEPTANCE OF WORK IN PLACE.
7. BRANCH CIRCUIT RACEWAY SHALL BE A MINIMUM OF 3/4" ELECTRICAL METALLIC TUBING (EMT) UNLESS OTHERWISE NOTED. RACEWAYS IN RAISED FLOOR OR IN PLENUM SPACE SHALL BE A MINIMUM OF 3/4" RIGID GALVANIZED STEEL (RGS) OR RIGID ALUMINUM (RAL) UNLESS OTHERWISE NOTED. RACEWAY BETWEEN RECESSED LIGHT FIXTURES SHALL BE A MINIMUM OF 1/2" FLEXIBLE STEEL METAL CONDUIT UNLESS OTHERWISE NOTED.
8. ALL INTERIOR OUTLETS, JUNCTION AND PULL BOXES SHALL BE METALLIC, SIZED PER CODE FOR THE NUMBER OF CONDUCTORS THEREIN.
9. ALL ELECTRICAL RACEWAYS SHALL BE CONCEALED IN THE WALLS AND ABOVE SUSPENDED CEILING OR BELOW RAISED FLOOR UNLESS OTHERWISE NOTED.
10. ALL CONDUCTORS SHALL BE #12 AWG MINIMUM TYPE THHN/THWN UNLESS NOTED OTHERWISE.
11. PROVIDE AND INSTALL MISCELLANEOUS STEEL FOR PROPER INSTALLATION OF THE ELECTRICAL EQUIPMENT. DETAILS OF THE STEEL SUPPORTS SHALL BE INDICATED ON THE SHOP DRAWINGS SUBMITTED FOR APPROVAL.
12. MC CABLE IS NOT ACCEPTABLE FOR ANY ELECTRICAL INSTALLATION.

DRAWING INDEX

E0.1 ELECTRICAL SYMBOLS, ABBREVIATIONS, GENERAL NOTES AND DRAWING INDEX
E0.2 ELECTRICAL – TITLE 24 COMPLIANCE

E1.1 ELECTRICAL SITE PLAN
E2.1 MULTIPURPOSE ELECTRICAL PLANS
E2.2 KINDER–ADMIN ELECTRICAL PLANS
E2.3 UNIT A ELECTRICAL PLANS
E2.4 UNIT B ELECTRICAL PLANS
E2.5 UNIT C ELECTRICAL PLANS
E2.6 UNIT D ELECTRICAL PLANS

E4.1 FIXTURE SCHEDULE AND DETAILS
E4.2 PANEL SCHEDULES

E7.1 FIRE ALARM NOTES AND DETAILS
E7.2 FIRE ALARM RISER DIAGRAM

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S. MARK FISHER
E16525
Exp. 12-31-19

Date Signed 05/22/2018

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PROJECT # 217279

ELECTRICAL SYMBOLS, ABBREVIATIONS,
GENERAL NOTES AND DRAWING INDEX

RUSSO-McENTEE ACADEMY- HVAC UPGRADES
2851 GAY AVE., SAN JOSE, CA 95127
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE
	DD SUBMITTAL	12-8-17
	DSA SUBMITTAL	01-31-18
	BID SET	04-06-18
	DSA BACKCHECK	05-22-18

DSA FILE NUMBER 43-04

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL 01-117267
AC KG FLS MS SS
DATE MAY 2 2 2018

DRAWN BY: AT
CHECKED BY: AT
JOB NO: 17116
DATE: 05/22/18

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 1 of 6)
Project Name: Russo-McEntee Academy - HVAC Upgrades	Date Prepared: 1/22/2018

A. General Information

Climate Zone: 4	Conditioned Floor Area: 24,790					
	Unconditioned Floor Area: 0					
Building Type:	☑	Nonresidential	☐	High-Rise Residential	☐	Hotel/Motel
☐ Schools	☐	Relocatable Public Schools	☑	Conditioned Spaces	☐	Unconditioned Spaces
Phase of Construction:	☐	New Construction	☐	Addition	☑	Alteration
Method of Compliance:	☐	Complete Building	☑	Area Category	☐	Tailored
Project Address: 2851 Gay Avenue, San Jose, CA. 95127						

B. Lighting Compliance Documents (select yes for each document included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

YES	NO	COMP. DOC.	TITLE
☑	☐	NRCC-LTI-01-E	Certificate of Compliance. All Pages required on plans for all submittals.
☑	☐	NRCC-LTI-02-E	Lighting Controls, Certificate of Compliance, and PAF Calculation. All Pages required on plans for all submittals.
☑	☐	NRCC-LTI-03-E	Indoor Lighting Power Allowance
☐	☑	NRCC-LTI-04-E	Tailored Method Worksheets
☐	☑	NRCC-LTI-05-E	Line Voltage Track Lighting Worksheets
☐	☐	NRCC-LTI-06-E	Indoor Lighting Existing Conditions

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 2 of 6)
Project Name: Russo-McEntee Academy - HVAC Upgrades	Date Prepared: 1/22/2018

C. Summary of Allowed Lighting Power

Conditioned and Unconditioned space Lighting must not be combined for compliance

	Indoor Lighting Power for Conditioned Spaces		Watts	Indoor Lighting Power for Unconditioned Spaces		Watts
01	**Installed** Lighting NRCC-LTI-01-E, Table H, page 5	+	18,971	**Installed** Lighting NRCC-LTI-01-E, Table H, page 5	+	0
02	Portable Only for Offices NRCC-LTI-01-E, Table G, page 4	+				
03	Minus Lighting Control Credits NRCC-LTI-02-E, page 2	-	0	Minus Lighting Control Credits NRCC-LTI-02-E, page 2	-	0
04	Adjusted **Installed** Lighting Power (row 1 plus row 2 minus row 3)	=	18,971	Adjusted **Installed** Lighting Power (row 1 minus row 3)	=	0
	Complies ONLY if **Installed** ≤ **Allowed** (Box 04 < Box 05)			Complies ONLY if **Installed** ≤ **Allowed** (Box 04 < Box 05)		
05	**Allowed** Lighting Power Conditioned NRCC-LTI-03-E, page 1 Alterations with replacement luminaires that have at least 50/35% lower power compared to the original existing luminaires, may instead use the allowed wattage from NRCC-LTI-06, page 2		29,339	**Allowed** Lighting Power Unconditioned NRCC-LTI-03-E, page 1 Alterations with replacement luminaires that have at least 50/35% lower power compared to the original existing luminaires, may instead use the allowed wattage from NRCC-LTI-06, page 2		0

D. Declaration of Required Certificates of Installation

Declare by selecting yes for all of the Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	Compliance Document/Title	
☑	☐	NRCI-LTI-01-E - Must be submitted for all buildings	☐ Field Inspector
☑	☐	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐ Field Inspector
☐	☑	NRCI-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance.	☐ Field Inspector
☐	☑	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	☐ Field Inspector
☐	☑	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐ Field Inspector
☐	☑	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐ Field Inspector

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STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 3 of 6)
Project Name: Russo-McEntee Academy - HVAC Upgrades	Date Prepared: 1/22/2018

E. Declaration of Required Certificates of Acceptance

Declare by selecting yes for all of the Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	Compliance Document/Title	
☑	☐	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐ Field Inspector
☑	☐	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐ Field Inspector
☐	☑	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐ Field Inspector
☐	☑	NRCA-LTI-05-A – Must be submitted for institutional tuning power adjustment factor (PAF).	☐ Field Inspector

A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
☐ **CONDITIONED SPACE** ☐ **UNCONDITIONED SPACE**

F. Indoor Lighting Schedule and Field Inspection Energy Checklist

- ☐ The actual indoor lighting power listed on the next 2 pages includes all installed permanent and planned portable lighting systems.
- ☐ When Complete Building Method is used for compliance, list each different type of luminaire on separate lines.
- ☐ When Area Category Method or Tailored Method is used for compliance, list each different type of luminaire by each different function area on separate lines
- ☐ Also include track lighting in schedule, and submit the track lighting compliance document (NRCC-LTI-05-E) when line-voltage track lighting is installed.

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 4 of 6)
Project Name: Russo-McEntee Academy - HVAC Upgrades	Date Prepared: 1/22/2018

G. Installed Portable Luminaires in Offices – Exception to Section 140.6(a)

- ☐ This section shall be filled out ONLY for portable luminaires in offices (As defined in §100.1). All other planned portable luminaires shall be documented on next page of this compliance document.
- ☐ This section is used to determine if greater than 0.3 watts of portable lighting is planned for any office
- ☐ Fill out a separate line for each different office. Small offices that are typical (having the same general and portable lighting) may be grouped together. This allowance shall not be traded between offices having different lighting systems.

Office Portable Luminaire Schedule	Office Installed Portable Luminaire W/ft²							Office Location	Field Inspector	
1	2	3	4	5	6	7	8	9	10	
Complete Luminaire Description (i.e., LED, under cabinet, furniture mounted direct/indirect)	Watts per Luminaire	Number of Luminaires	Installed portable luminaire watts in this office (G02 x G03)	Square feet of this office	Watts per square foot (G04 / G05)	If G06 ≤ 0.3, enter zero; if G06 > 0.3, (G06-0.3)	(G05 x G07)	Identify Office area in which these portable luminaires are installed	Pass	Fail
									☐	☐
									☐	☐
									☐	☐
									☐	☐
									☐	☐
Total installed portable luminaire watts that are greater than 0.3 W/ft² per office:								Enter sum total of all pages into NRCC-LTI-01-E; Page 1		

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 5 of 6)
Project Name: Russo-McEntee Academy - HVAC Upgrades	Date Prepared: 1/22/2018

A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
☑ **CONDITIONED SPACE** ☐ **UNCONDITIONED SPACE**

H. Indoor Lighting Schedule and Field Inspection Energy Checklist

Luminaire Schedule		Installed Watts					Location	Field Inspector[1]	
01	02	03	04		05	06	07	08	
			How wattage was determined						
Name or Item Tag	Complete Luminaire Description (i.e, 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per Luminaire	CEC Default from NA8	According to §130.0(c)	Number Luminaires	Total Installed Watts in this area (H03 x H05)	Primary Function area in which these luminaires are installed	Pass	Fail
A	2x4 Recessed Led	41.0	☑	☐	30	1,230	Classroom, Lecture, Training	☐	☐
A/A1	2x4 Recessed Led	41.0	☑	☐	4	164	Lobby, Main Entry	☐	☐
A/A1	2x4 Recessed Led	41.0	☑	☐	8	328	Lounge, Recreation	☐	☐
A/A1	2x4 Recessed Led	41.0	☑	☐	5	205	Office <= 250 sqft	☐	☐
A/A1	2x4 Recessed Led	41.0	☑	☐	49	2,009	Classroom, Lecture, Training	☐	☐
A1	2x4 Recessed Led	41.0	☑	☐	1	41	Corridor/Restroom/Support	☐	☐
A3	2x4 Surfaces Led	59.0	☑	☐	36	2,124	Convention/Conference/Meeting	☐	☐
C	Direct/indirect Suspended Led	55.0	☑	☐	232	12,760	Classroom, Lecture, Training	☐	☐
C	Direct/indirect Suspended Led	55.0	☑	☐	2	110	Lobby, Main Entry	☐	☐
INSTALLED WATTS PAGE TOTAL:						18,971	Enter sum total of all pages into NRCC-LTI-01-E; Page 2		

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 01/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 1 of 3)
Project Name: Russo-McEntee Academy - HVAC Upgrades	Date Prepared: 1/22/2018

A. Mandatory Lighting Control Declaration Statements (Indicate if the measure applies by checking yes or no below.)

YES	NO	Control Requirements
☑	☐	Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with Section 110.9.
☑	☐	Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with Section 130.4(b).
☐	☑	One or more Track Lighting Integral Current Limiters shall be installed which have been certified to the Energy Commission in accordance with §110.9 and §130.0. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b).
☐	☑	A Track Lighting Supplementary Overcurrent Protection Panel shall be installed in accordance with Section 110.9 and Section 130.0. Additionally, an Installation Certificate shall be installed in accordance with Section 130.4(b).
☑	☐	All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with Section 130.1.
☑	☐	All luminaires shall be functionally controlled with manually switched ON and OFF lighting controls in accordance with Section 130.1(a).
☑	☐	General lighting shall be separately controlled from all other lighting systems in an area. Floor and wall display, window display, case display, ornamental, and special effects lighting shall each be separately controlled on circuits that are 20 amps or less. When track lighting is used, general, display, ornamental, and special effects lighting shall each be separately controlled; in accordance with Section 130.1(a)4.
☑	☐	The general lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.5 watts per square foot shall meet the multi-level lighting control requirements in accordance with Section 130.1(b).
☑	☐	All installed indoor lighting shall be equipped with controls that meet the applicable Shut-OFF control requirements in Section 130.1(c).
☑	☐	Lighting in all Daylit Zones shall be controlled in accordance with the requirements in Section 130.1(d) and daylit zones are shown on the plans.
☐	☑	Lighting power in buildings larger than 10,000 square feet shall be capable of being automatically reduced in response to a Demand Responsive Signal in accordance with Section 130.1(e).
☑	☐	Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with Section 130.4.(a). The controls required to meet the Acceptance Requirements include automatic daylight controls, automatic shut-OFF controls, and demand responsive controls.

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 01/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 2 of 3)
Project Name: Russo-McEntee Academy - HVAC Upgrades	Date Prepared: 1/22/2018

A separate document must be filled out for Conditioned and Unconditioned Spaces. This page is used only for the following:
☑ CONDITIONED SPACES ☐ UNCONDITIONED SPACES

B. Mandatory and Prescriptive Indoor Lighting Control Schedule, PAF Calculation, and Field Inspection Checklist

Lighting Control Schedule			Standards Complying With[1] (✓ all that apply, or enter 'E' if Exempted)							PAF Credit Calculation[2]			✓ if Acceptance Test Required	Field Inspector	
										Watts of Controlled Lighting	PAF	Control Credit (K x L)			
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
Location in Building	Type/Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc...)	# of Units	§130.1(a)	§130.0(b)	§130.1(c)	§130.1(d)	§130.1(e)	§140.6(a)2	§140.6(d)					Pass	Fail
Admin,Multi,Unit A.B.C.D	Multi Level	1	☐	☑	☐	☐	☐	☐	☐				✓	☐	☐
Admin,Multi,Unit A.B.C.D	Occupancy Sensor	1	☐	☐	☑	☐	☐	☐	☐				✓	☐	☐
Admin,Multi,Unit A.B.C.D	Automatic Time Switch	1	☐	☐	☑	☐	☐	☐	☐				✓	☐	☐
Admin,Multi,Unit A.B.C.D	Automatic Daylighting	1	☐	☐	☐	☑	☐	☐	☐				✓	☐	☐
Admin,Multi,Unit A.B.C.D	Secondary Daylighting	1	☐	☐	☐	☐	☐	☐	☑				✓	☐	☐
Admin,Multi,Unit A.B.C.D	Manual Area	1	☑	☐	☐	☐	☐	☐	☐				✓	☐	☐
Control Credit PAGE TOTAL (Sum of Column 13):												0			
IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for all pages HERE (Sum of all Column 13):												0			
												Enter Control Credit total into NRCC-LTI-01-E; Page 1.			

1. §130.1(a) = Manual area controls; §130.0(b) = Multi Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive; §140.6(d) = Additional lighting controls installed to earn a PAF; §140.6(d) = Prescriptive Secondary Sidelit Daylight Controls.
2. Check Table 140.6-A for correct Factor. PAFs shall not be traded between conditioned and unconditioned spaces. As a condition to earn a PAF, an Installation Certificate is also required to be filled out, signed, and submitted.

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 6 of 6)
Project Name: Russo-McEntee Academy - HVAC Upgrades	Date Prepared: 1/22/2018

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Mark Fisher	Documentation Author Signature:
Company: Alfa Tech	Signature Date: 1/22/2018
Address: 1321 Ridder Park Drive, No. 50	CEA Certification Identification (if applicable): E16525
City/State/Zip: San Jose, CA 95131	Phone: (408)487-1200

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Mark Fisher	Responsible Designer Signature:
Company : ALFATECH	Date Signed: 01-29-18
Address: 1321 Ridder Park Drive, No. 50	License: E16525
City/State/Zip: San Jose, CA 95131	Phone: (408)487-1200

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 1 of 4)
Project Name: Russo-McEntee Academy - HVAC Upgrades	Date Prepared: 1/22/2018

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
☑ CONDITIONED spaces ☐ UNCONDITIONED spaces

A. SUMMARY TOTALS OF LIGHTING POWER ALLOWANCES

- ☐ If using Complete Building Method for compliance, use only the total in column (a) as total allowed building watts.
- ☐ If using Area Category Method, Tailored Method, or a combination of Area Category and Tailored Method for compliance, use only the total in column (b) as the total allowed building watts

	(a)	(b)
01 Complete Building Method Allowed Watts. Documented in section B of NRCC-LTI-03-E (below on this page)		▨
02 Area Category Method Allowed Watts. Documented in section C-1 of NRCC-LTI-03-E (below on this page)	▨	29,339
03 Tailored Method Allowed Watts. Documented in section A of NRCC-LTI-04-E	▨	0
TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRCC-LTI-01, Page 2, Row 1		29,339

☐ Check here if building contains both conditioned and unconditioned areas.

B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE

01	02		03		04
TYPE OF BUILDING (From §140.6 Table 140.6-B)	WATTS PER ft²	X	COMPLETE BLDG. AREA	=	ALLOWED WATTS
Total Area:					▨
Total Watts. Enter Total Watts into section A, row 1 (Above on this page)					

C -1 AREA CATEGORY METHOD TOTAL LIGHTING POWER ALLOWANCES	Watts
Total from section C-2.	29,339
Total from section C-3.	0
Total Watts. Enter Total Watts into section A, row 2 (Above on this page).	29,339
For Alterations Only – Reduced lighting power option (Total Allowed Watts x 0.85). Enter this value into section A, row 2 if using this option.	

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 2 of 4)
Project Name: Russo-McEntee Academy - HVAC Upgrades	Date Prepared: 1/22/2018

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
☑ CONDITIONED spaces ☐ UNCONDITIONED spaces

C -2 AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE

- ☐ Do not include portable lighting for offices. Portable lighting for offices shall be documented only in Section G of NRCC-LTI-01-E.
- ☐ Separately list lighting for each primary function area as defined in §100.1 of the Standards.

01		02		03		04
AREA CATEGORY (From §140.6 Table 140.6-C)						
Location in Building	Primary Function Area per Table 140.6-C	WATTS PER ft²	X	AREA (ft²)	=	ALLOWED WATTS
Classrooms	Classroom, Lecture, Training	1.20		20,191		24,229
Multi-Purpose	Convention/Conference/Meeting	1.20		3,045		3,654
Reception	Lobby, Main Entry	0.95		361		343
Offices <250 sqft	Office <= 250 sqft	1.00		481		481
Corridors/Restrooms/Supports	Corridor/Restroom/Support	0.60		30		18
Lounge	Lounge, Recreation	0.90		682		614
		TOTALS		24,790		
Enter sum total Area Category allowed watts into section C-1 of NRCC-LTI-03-E (this compliance document)						29,339
						WATTS

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 3 of 4)
Project Name: Russo-McEntee Academy - HVAC Upgrades	Date Prepared: 1/22/2018

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
☑ CONDITIONED spaces ☐ UNCONDITIONED spaces

C-3 AREA CATEGORY METHOD ADDITIONAL LIGHTING WATTAGE ALLOWANCE (from Table 140.6-C Footnotes)

01	02	03[2]	04	05	06	07
Primary Function	Sq Ft or Linear ft[1]	Additional Watts Allowed	Wattage Allowance (02 x 03)	Description(s) and Quantity of Special Luminaire Types in each Primary Function Area	Total Design Watts[3]	ALLOWED WATTS Smaller of 04 or 06
TOTALS – Enter into TOTAL AREA CATEGORY METHOD ADDITIONAL ALLOWANCES – Section C-1						0

1. Use linear feet only for additional allowance for white board or chalk board. All other additional Area Category allowances shall use watts per square foot.
2 . Additional watts are available only when allowed according to the footnotes on bottom of Table 140.6-C, which include: Specialized task work; Ornamental lighting; Precision commercial and industrial work; Per linear foot of white board or chalk board; Accent, display and feature lighting; and Videoconferencing studio lighting..
3. Luminaire classification and wattage shall be determined in accordance with §130.0(c) of the Standards.

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 01/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 3 of 3)
Project Name: Russo-McEntee Academy - HVAC Upgrades	Date Prepared: 1/22/2018

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Mark Fisher	Documentation Author Signature:
Company: Alfa Tech	Signature Date: 1/22/2018
Address: 1321 Ridder Park Drive, No. 50	CEA Certification Identification (if applicable): E16525
City/State/Zip: San Jose, CA 95131	Phone: (408)487-1200

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4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

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Company : ALFATECH	Date Signed: 01-29-18
Address: 1321 Ridder Park Drive, No. 50	License: E16525
City/State/Zip: San Jose, CA 95131	Phone: (408)487-1200

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 4 of 4)
Project Name: Russo-McEntee Academy - HVAC Upgrades	Date Prepared: 1/22/2018

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Company : ALFATECH	Date Signed: 01-29-18
Address: 1321 Ridder Park Drive, No. 50	License: E16525
City/State/Zip: San Jose, CA 95131	Phone: (408)487-1200

SUGIMURA FINNEY ARCHITECTS
SFA
ARCHITECTURE INTERIORS PLANNING
2155 SOUTH BASCOM AVE.
SUITE 200
CAMPBELL, CA 95008
PHONE: 408-879-0600
FAX: 408-377-6066

MARK C. FINNEY
NO. C-24673
REN. 9-30-17

S. MARK FISHER
E16525
Exp. 12-31-19

Date Signed 05/22/2018

ALFATECH
1321 RIDDER PARK DRIVE, SUITE 50 408-487-1200
SAN JOSE, CALIFORNIA 95131 FAX: 408-487-1422
SAN JOSE SAN FRANCISCO • THAILAND SINGAPORE
SYDNEY MELBOURNE • DUBLIN • CORK LONDON DUBAI
PROJECT # 217279

ELECTRICAL TITLE 24 COMPLIANCE

RUSSO-McENTEE ACADEMY- HVAC UPGRADES
2851 GAY AVE., SAN JOSE, CA 95127
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE
	DD SUBMITTAL	12-8-17
	DSA SUBMITTAL	01-31-18
	BID SET	04-06-18
	DSA BACKCHECK	05-22-18

DSA FILE NUMBER 43-04

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL 01-117267
AC KG FLS MS SS CH
DATE MAY 22 2018

DRAWN BY:	AT
CHECKED BY:	AT
JOB NO: 17116	DATE: 05/22/18

E0.2

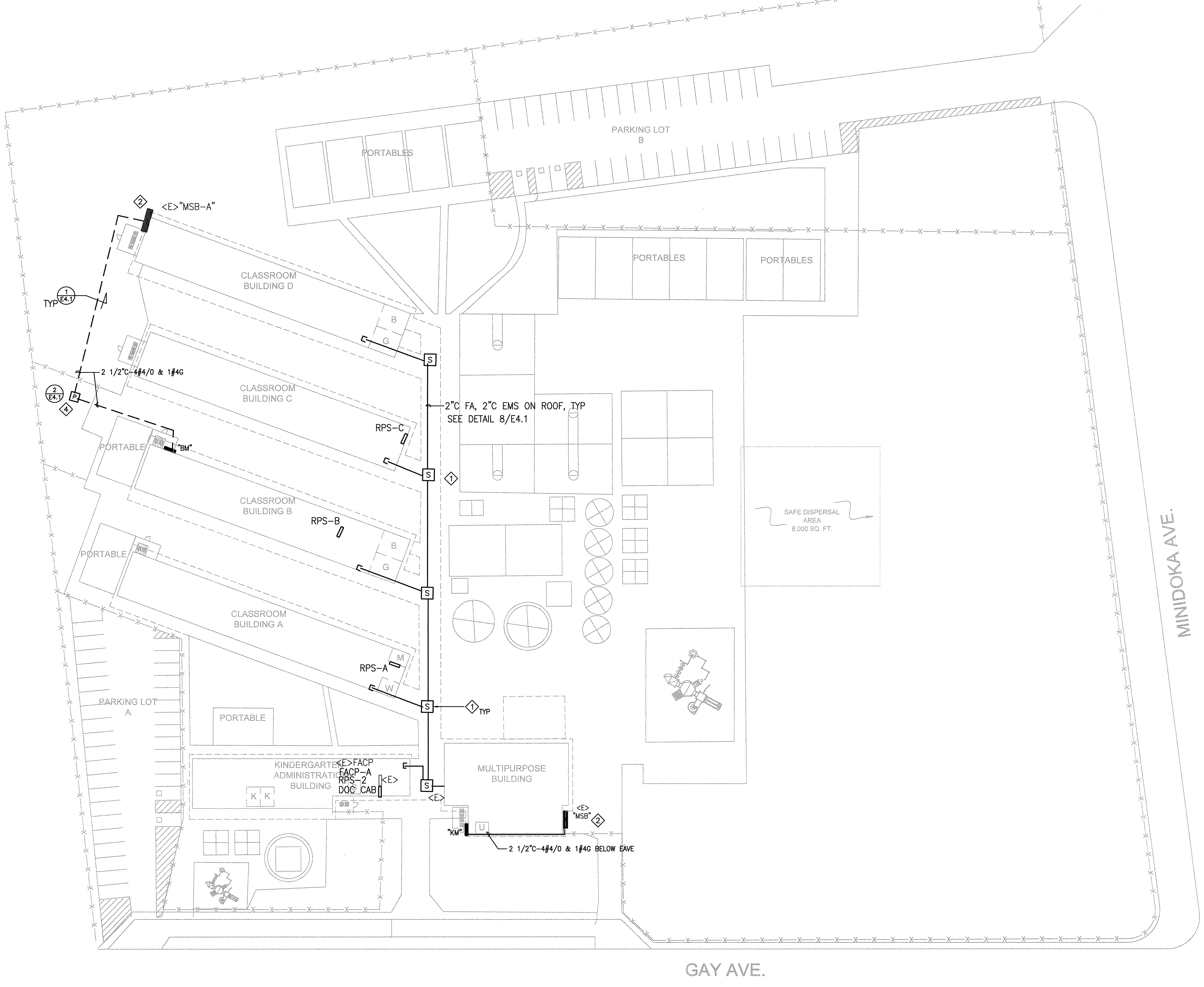
(-)2017\217279 ARUSD Russo HVAC Upgrade Electrical Design\CAD\279E02.dwg TIME: May08, 18-08:47AM LOGIN: jgnec

GENERAL NOTES

1. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN AN INDEPENDANT UTILITY LOCATER TO IDENTIFY ALL <E> UTILITIES PRIOR TO TRENCHING / BORING.

SHEET NOTES

- ◇1 PROVIDE 12"X12"X6" WP PULL BOX ON ROOF FOR FA AND EMS CABLING.
- ◇2 PROVIDE (1) 225A/3P BREAKER AT <E> SPACES. THE NEW BREAKER SHALL BE COMPATIBLE WITH <E> PANEL AIC RATING.
- ◇3 18"X24" CONCRETE PULL BOX WITH TRAFFIC COVER LABELED "ELECT" FOR POWER, CHRISTY OR EQAUL.



ELECTRICAL SITE PLAN

SCALE: 1" = 30'-0"

SUGIMURA
FINNEY
ARCHITECTS
SFA
ARCHITECTURE INTERIORS PLANNING

2155 SOUTH BASCOM AVE.
SUITE 200
CAMPBELL, CA 95008
PHONE: 408-879-0600
FAX: 408-377-6066

LICENSED ARCHITECT
MARK C. FINNEY
NO. C-24673
REN. 9-30-17
STATE OF CALIFORNIA

S. MARK FISHER
E16525
Exp. 12-31-19

Date Signed 05/22/2018

ALFATECH
1321 RIDDER PARK DRIVE, SUITE 50 408-487-1200
SAN JOSE, CALIFORNIA 95131 FAX: 408-487-1422
SAN JOSE SAN FRANCISCO • THAILAND SINGAPORE
SYDNEY MELBOURNE • DUBLIN • CORK LONDON DUBAI
PROJECT # 217279

ELECTRICAL SITE PLAN

RUSSO-McENTEE ACADEMY- HVAC UPGRADES
2851 GAY AVE., SAN JOSE, CA 95127
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE
	DD SUBMITTAL	12-8-17
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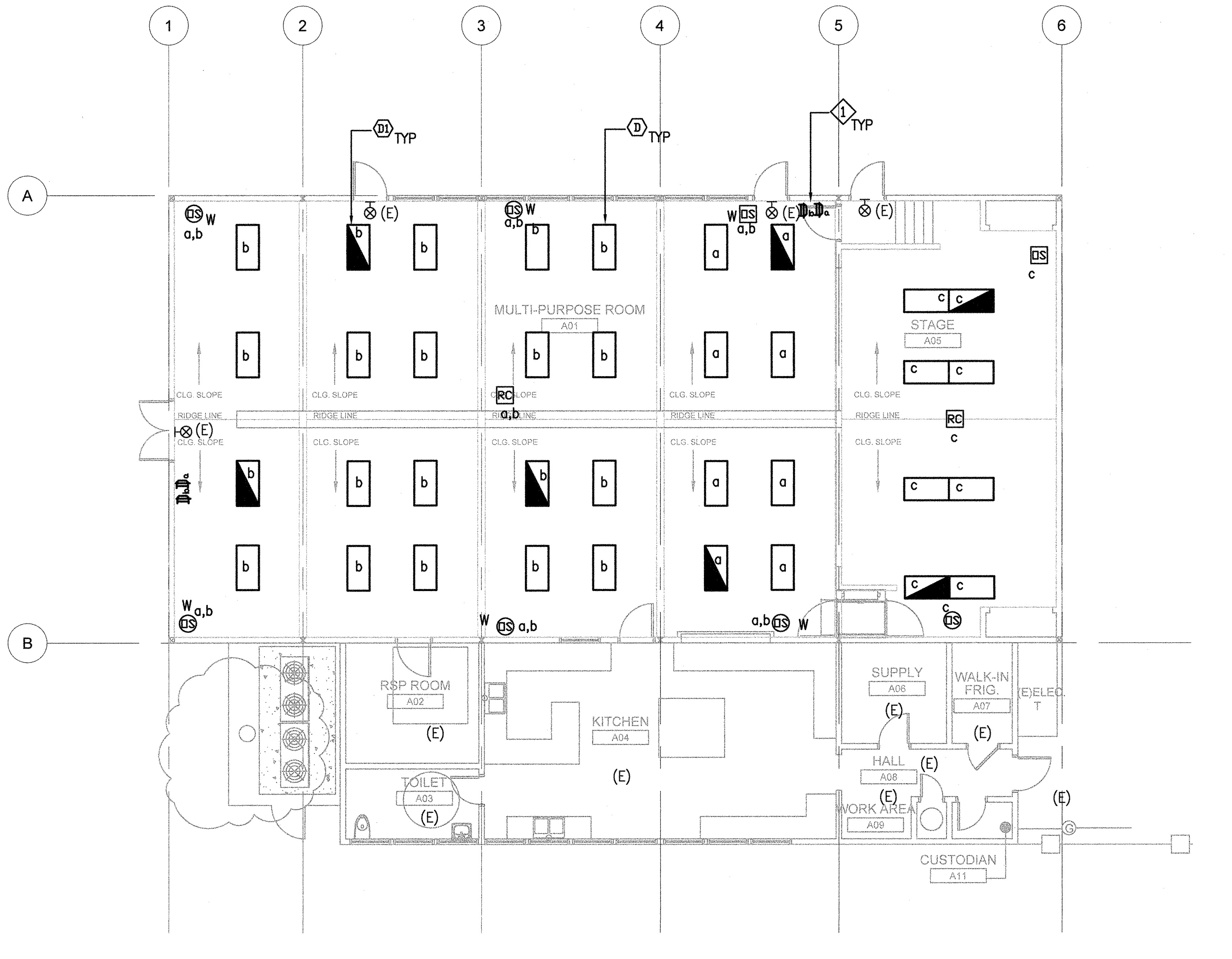
	BID SET	04-06-18
	DSA BACKCHECK	05-22-18

DSA FILE NUMBER 43-04

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL 01-117267
AC KG FLS MS SS
DATE MAY 22 2018

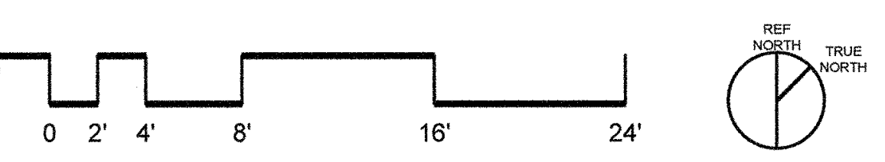
DRAWN BY: AT
CHECKED BY: AT
JOB NO: 17116
DATE: 05/22/18

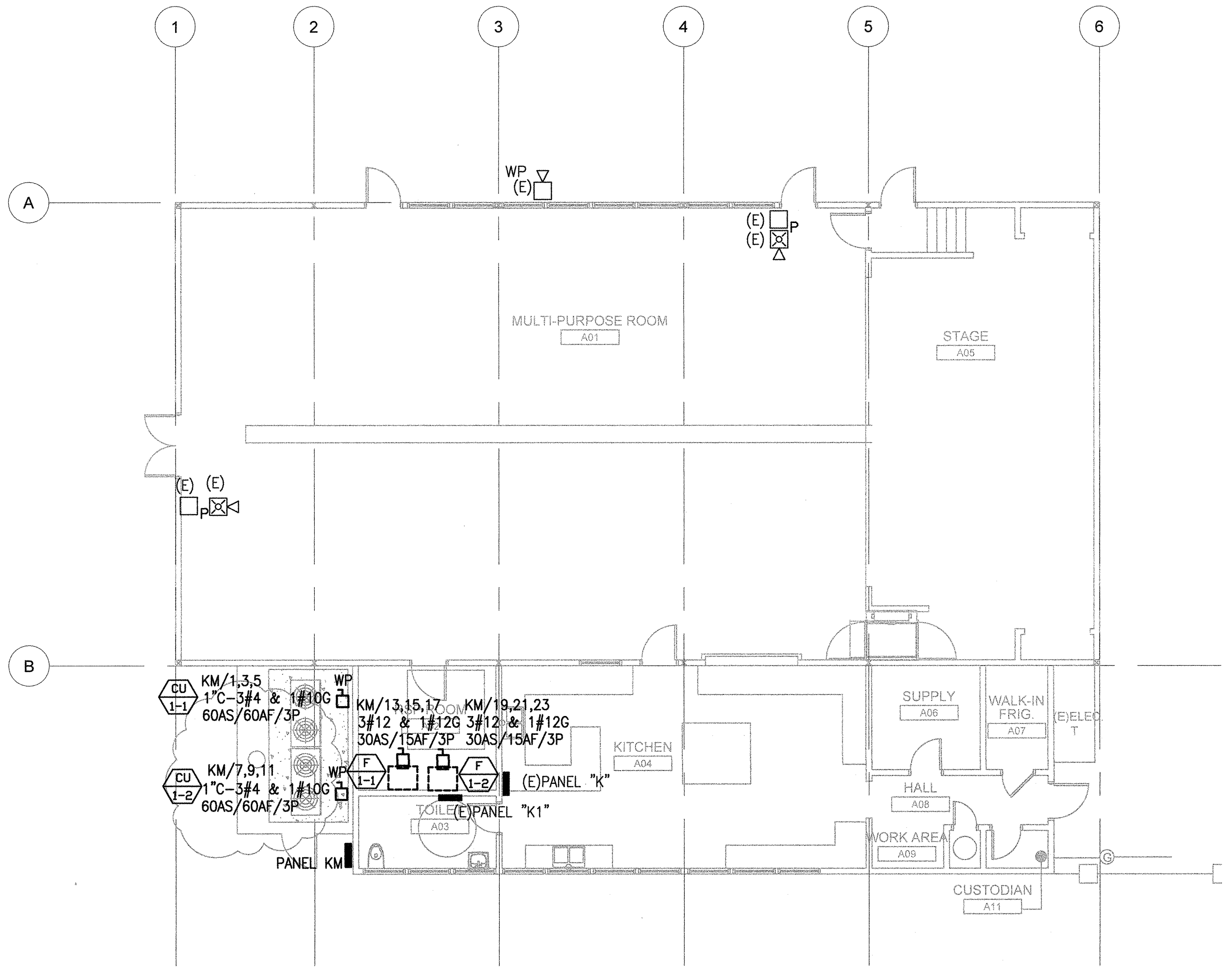
E1.1



1 MULTIPURPOSE - LIGHTING PLAN

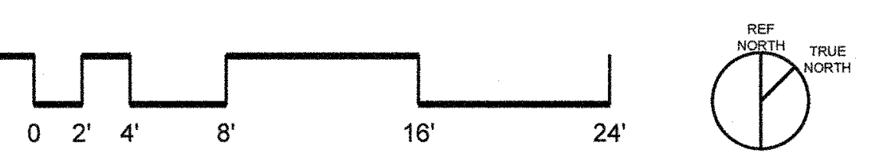
1/8" = 1'-0"





2 MULTIPURPOSE - ELECTRICAL PLAN

1/8" = 1'-0"



DEMOLITION NOTES:

1. DISCONNECT AND REMOVE ALL EXISTING LIGHT FIXTURES AND CONTROL FOR INSTALLATION OF NEW FIXTURE/CONTROL AS SHOWN AT NEW CEILING AREA, U.O.N. RETAIN AND MODIFY <E> CIRCUITRY FOR RECONNECTION OF NEW FIXTURES WITH SWITCHING ZONES AS SHOWN. CONNECT EMERGENCY LIGHT AND EXIT SIGN TO <E> UN-SWITCHED CIRCUIT IN THE AREA.
2. DISCONNECT AND REMOVE EXISTING CEILING MOUNTED WIRELESS ACCESS DATA JACK AS SHOWN. RETAIN <E> JACKS / CABLES FOR REINSTALLATION AND RECONNECTION AT NEW CEILING. PROVIDE TESTING TO ENSURE PROPER OPERATION.
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4. COORDINATE WITH MECH TO DISCONNECT AND REMOVE <E> POWER CONNECTIONS OF REMOVED MECH UNITS. REMOVE CONDUITS AND WIRES BACK TO SOURCE.
5. DISCONNECT AND REMOVE <E> UN-USED SURFACE MOUNTED RACEWAY / WIREMOLD BACK TO THE NEAREST SOURCE.
6. DISCONNECT AND REMOVE <E> SECURITY MOTION SENSOR FOR REINSTALLATION AND RECONNECTION AFTER NEW CEILING IS COMPLETE. PROVIDE SYSTEM TESTING TO ENSURE PROPER OPERATION.

GENERAL NOTES:

1. SEE WIRING DIAGRAM FOR LIGHTING CONTROL REQUIREMENT.
2. PROVIDE SURFACE WIREMOLD 2300 AT NON-ACCESSIBLE WALL /CEILING SURFACE FOR CABLING AS NEEDED.
3. ALL CONDUITS SHALL BE CONCEALED IN WALLS, ABOVE CEILING AND NOT ALLOWED ON ROOF, U.O.N.

SHEET NOTES:

◇1 REPLACE <E> SWITCHES WITH NEW CONTROL AS SHOWN.

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SYDNEY MELBOURNE • DUBLIN • CORK LONDON DUBAI
PROJECT # 217279

MULTIPURPOSE - ELECTRICAL PLANS

RUSSO-McENTEE ACADEMY- HVAC UPGRADES
2851 GAY AVE., SAN JOSE, CA 95127
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE
	DD SUBMITTAL	12-8-17
	DSA SUBMITTAL	01-31-18
	BID SET	04-06-18
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DSA FILE NUMBER 43-04

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL 01-117267
AC KQ FLS MS SS
DATE MAY 22 2018

DRAWN BY: AT
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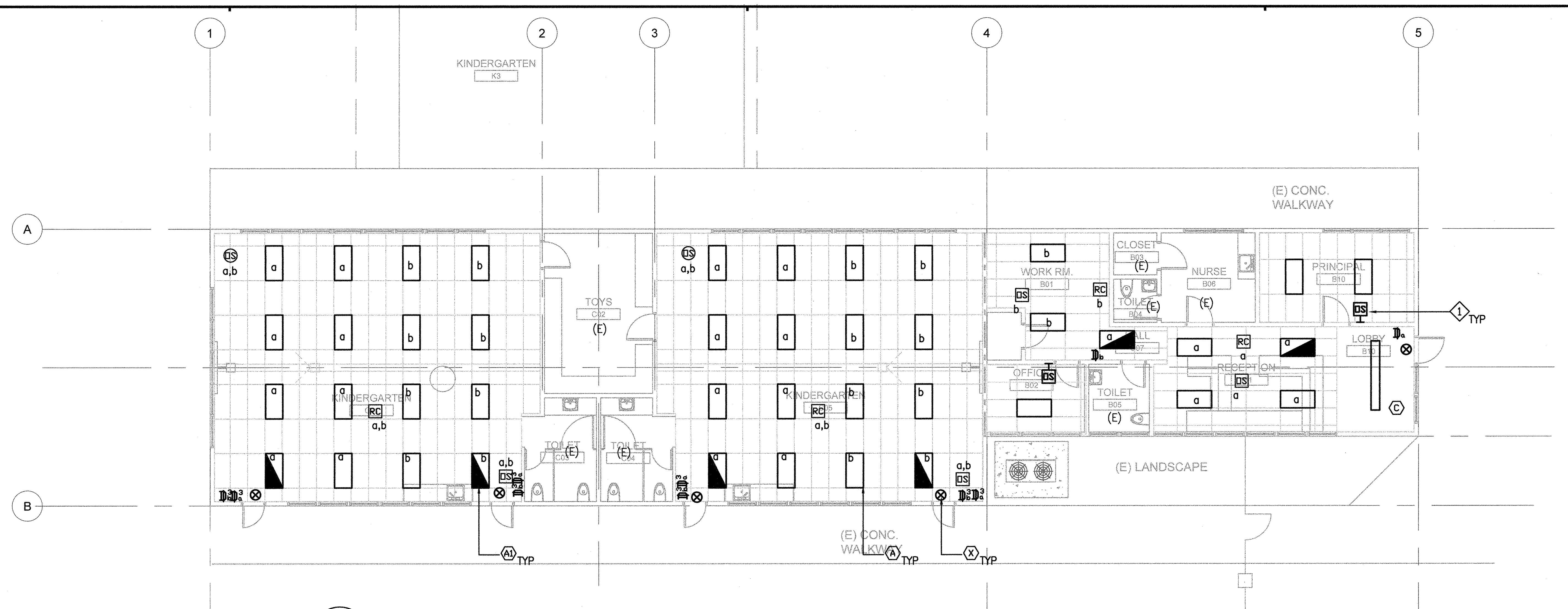
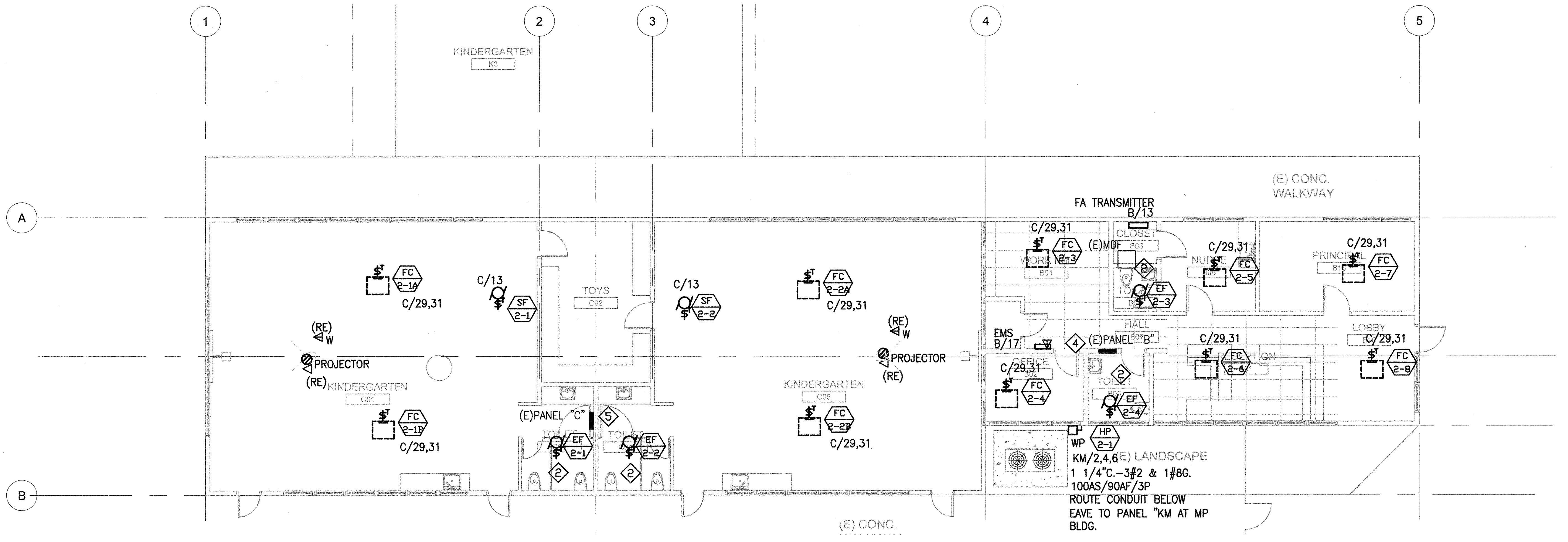
E2.1



1 KINDER-ADMIN - LIGHTING PLAN

1/8" = 1'-0"

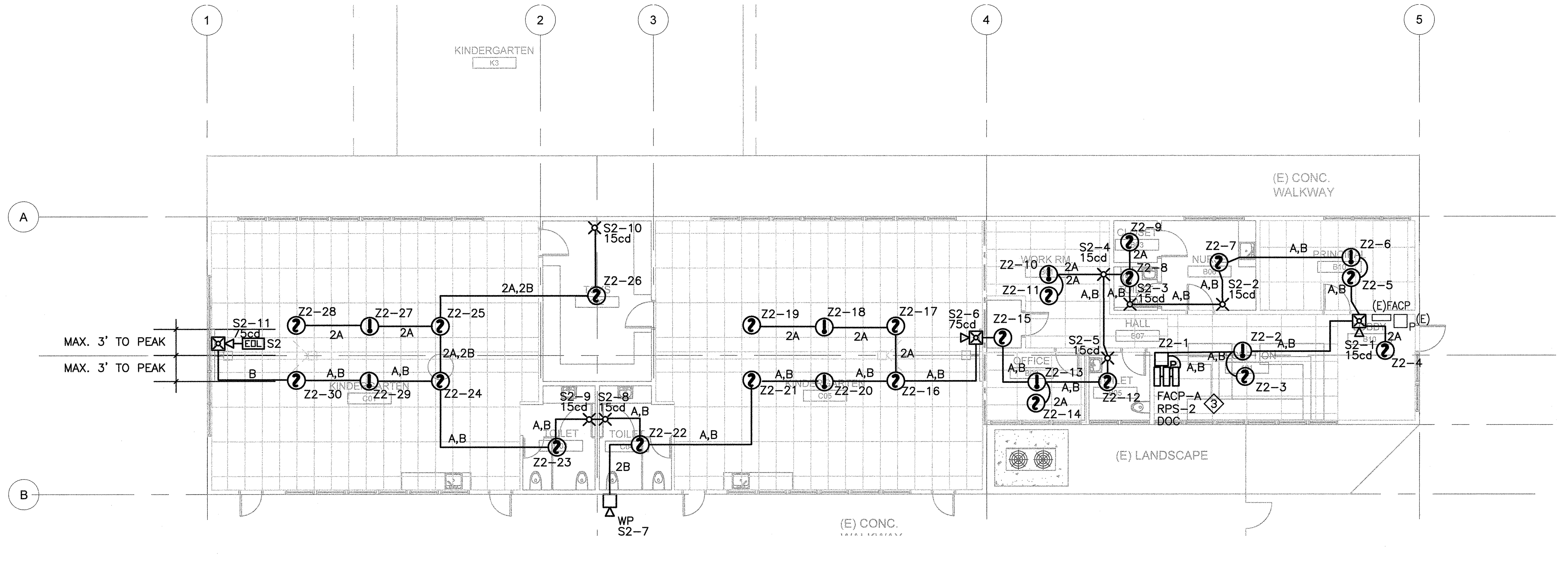
0 2' 4' 8' 16' 24'



2 KINDER-ADMIN - ELECTRICAL PLAN

1/8" = 1'-0"

0 2' 4' 8' 16' 24'



3 KINDER-ADMIN - FIRE ALARM PLAN

1/8" = 1'-0"

0 2' 4' 8' 16' 24'

DEMOLITION NOTES:

1. DISCONNECT AND REMOVE ALL EXISTING LIGHT FIXTURES AND CONTROL FOR INSTALLATION OF NEW FIXTURE/CONTROL AS SHOWN AT NEW CEILING AREA, U.O.N. RETAIN AND MODIFY <E> CIRCUITRY FOR RECONNECTION OF NEW FIXTURES WITH SWITCHING ZONES AS SHOWN. CONNECT EMERGENCY LIGHT AND EXIT SIGN TO <E> UN-SWITCHED CIRCUIT IN THE AREA.
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4. COORDINATE WITH MECH TO DISCONNECT AND REMOVE <E> POWER CONNECTIONS OF REMOVED MECH UNITS. REMOVE CONDUITS AND WIRES BACK TO SOURCE.
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6. DISCONNECT AND REMOVE POWER CONNECTION FOR THE OVERHEAD PROJECTOR. RETAIN AND EXTEND <E> CIRCUITRY TO NEW POWER OUTLET MOUNTED AT NEW T BAR CEILING FOR THE REINSTALLED PROJECTOR. REFER TO ARCH DWG. FOR MOUNTING DETAIL. PROVIDE TESTING TO ENSURE PROPER OPERATION.

GENERAL NOTES:

1. SEE WIRING DIAGRAM FOR LIGHTING CONTROL REQUIREMENT.
2. PROVIDE SURFACE WIREMOLD 2300 AT NON-ACCESSIBLE WALL /CEILING SURFACE FOR CABLING AS NEEDED.
3. ALL CONDUITS SHALL BE CONCEALED IN WALLS, ABOVE CEILING AND NOT ALLOWED ON ROOF, U.O.N.

SHEET NOTES:

◇1 REPLACE <E> SWITCHES WITH NEW CONTROL AS SHOWN.

◇2 CONNECT EXHAUST FAN TO <E> LIGHTING CIRCUIT VIA LIGHTING CONTROL.

◇3 CONNECT NEW FACP-1 TO <E> FACP DEDICATED 20A CIRCUIT.

◇4 PROVIDE (1) 20A/1P BREAKER AT AVAILABLE SPACE. THE NEW BREAKERS SHALL BE COMPATIBLE WITH THE <E> PANEL AIC RATING. PROVIDE LABELS AT NEW BREAKERS.

◇5 PROVIDE (1) 20A/2P BREAKER AT AVAILABLE SPACES. THE NEW BREAKERS SHALL BE COMPATIBLE WITH THE <E> PANEL AIC RATING. PROVIDE LABELS AT NEW BREAKERS.

FA CABLE LEGEND

INITIATION
'A' = WEST PENN 994 – ABOVE GRADE
WEST PENN AQ226 – BELOW GRADE

VISUAL NOTIFICATION
'B' = 2 EACH THHN #12 – RACEWAY
2 EACH THWN #12 – BELOW GRADE
WEST PENN 998 – ABOVE GRADE WITHOUT RACEWAY

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KINDER-ADMIN ELECTRICAL PLANS

RUSSO-McENTEE ACADEMY- HVAC UPGRADES
2851 GAY AVE., SAN JOSE, CA 95127
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

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E2.2

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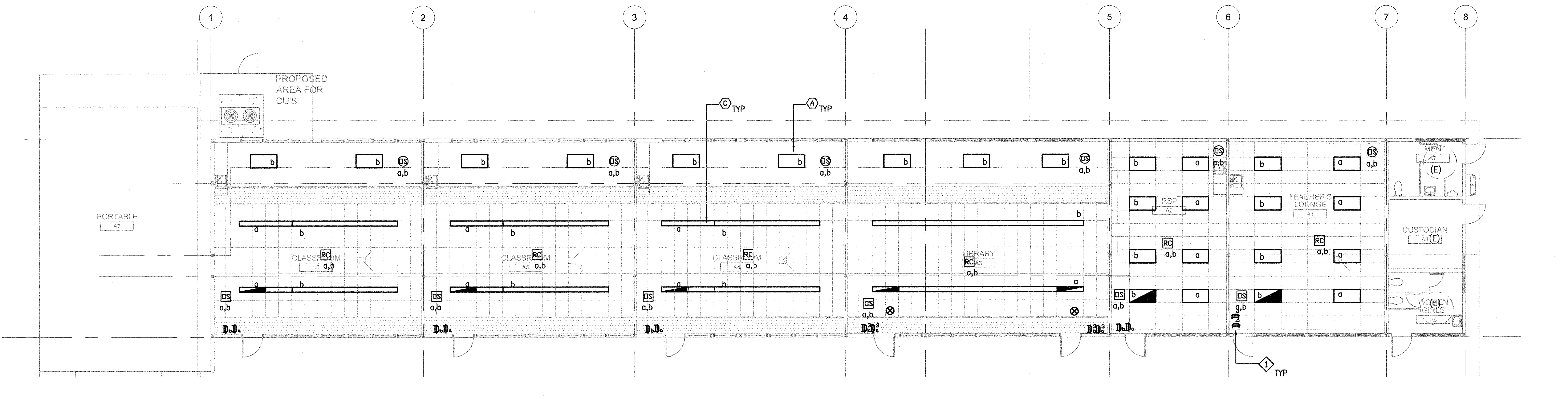
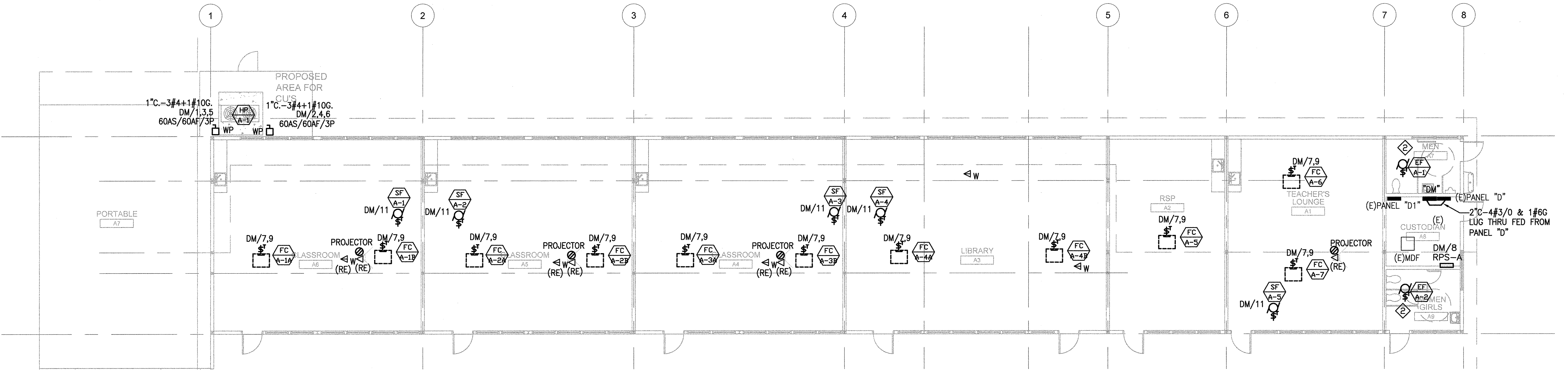


1 UNIT A - LIGHTING PLAN

1/8" = 1'-0"

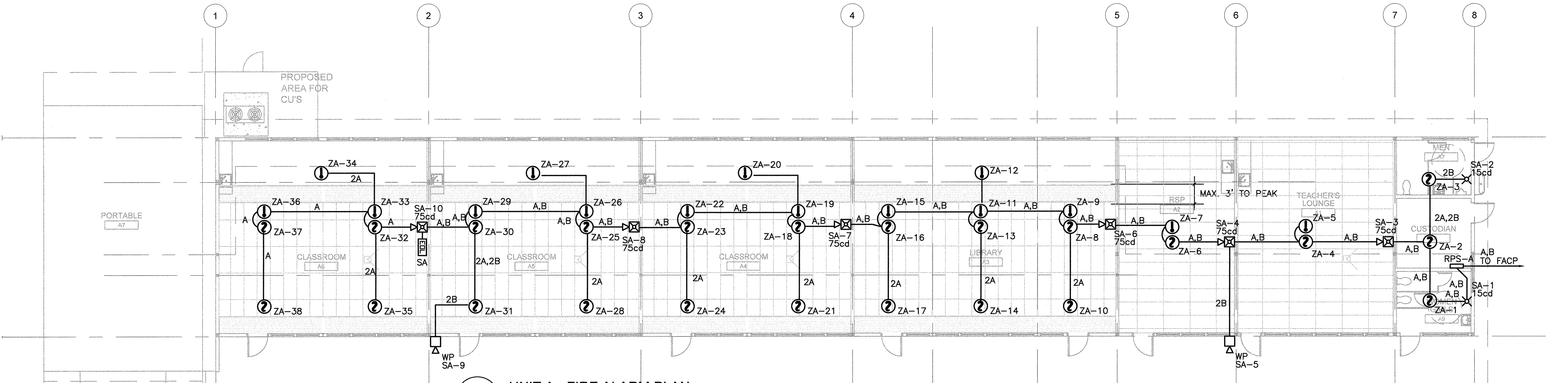
0 2' 4' 8' 16' 24'



2 UNIT A - ELECTRICAL PLAN

1/8" = 1'-0"

0 2' 4' 8' 16' 24'



3 UNIT A - FIRE ALARM PLAN

1/8" = 1'-0"

0 2' 4' 8' 16' 24'

DEMOLITION NOTES:

1. DISCONNECT AND REMOVE ALL EXISTING LIGHT FIXTURES AND CONTROL FOR INSTALLATION OF NEW FIXTURE/CONTROL AS SHOWN AT NEW CEILING AREA, U.O.N. RETAIN AND MODIFY <E> CIRCUITRY FOR RECONNECTION OF NEW FIXTURES WITH SWITCHING ZONES AS SHOWN. CONNECT EMERGENCY LIGHT AND EXIT SIGN TO <E> UN-SWITCHED CIRCUIT IN THE AREA.
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SHEET NOTES:

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◇2 CONNECT EXHAUST FAN TO <E> LIGHTING CIRCUIT VIA LIGHTING CONTROL.

FA CABLE LEGEND

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PROJECT # 217279

UNIT A ELECTRICAL PLANS

RUSSO-McENTEE ACADEMY- HVAC UPGRADES
2851 GAY AVE., SAN JOSE, CA 95127
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

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E2.3

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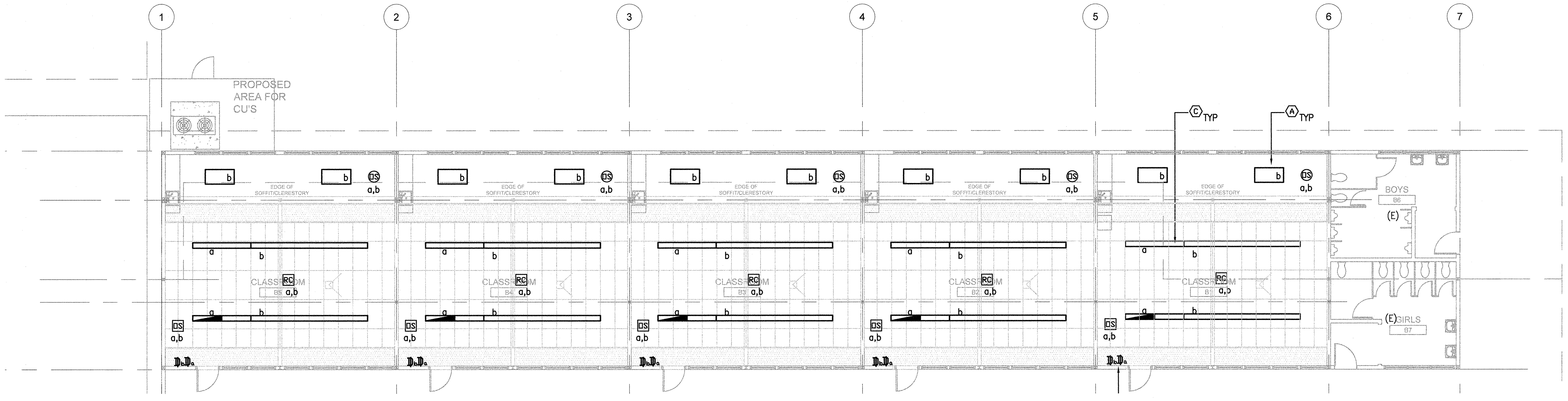
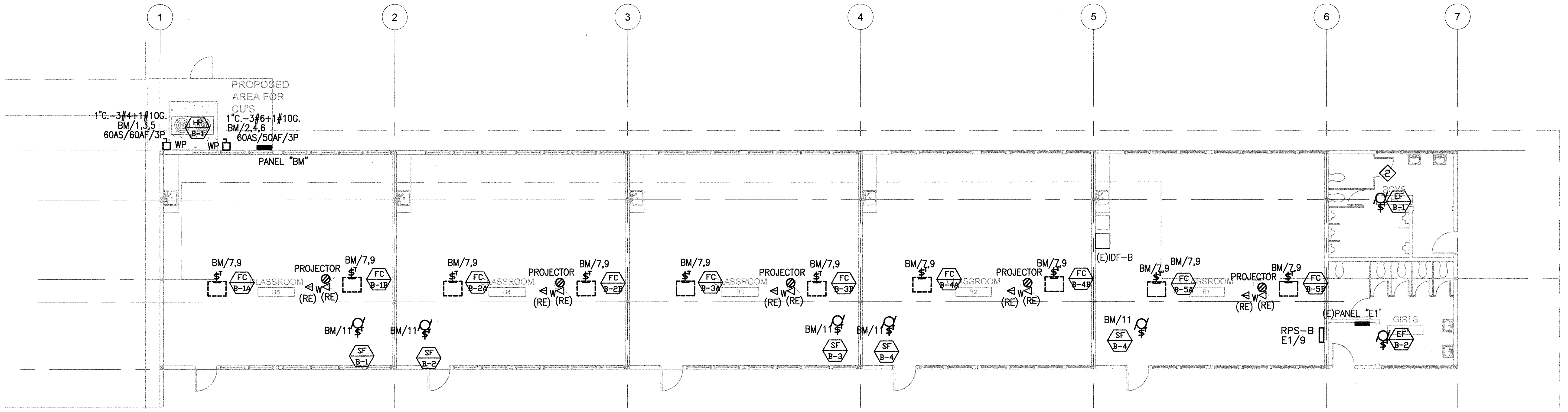


1 UNIT B - LIGHTING PLAN

1/8" = 1'-0"

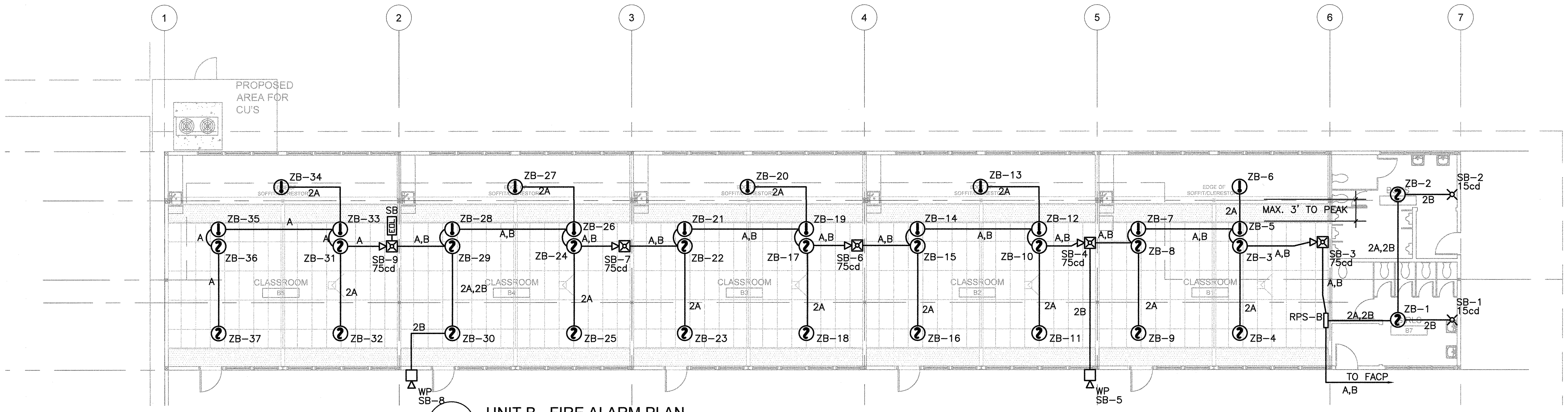
0 2' 4' 8' 16' 24'



2 UNIT B - ELECTRICAL PLAN

1/8" = 1'-0"

0 2' 4' 8' 16' 24'



3 UNIT B - FIRE ALARM PLAN

1/8" = 1'-0"

0 2' 4' 8' 16' 24'

DEMOLITION NOTES:

1. DISCONNECT AND REMOVE ALL EXISTING LIGHT FIXTURES AND CONTROL FOR INSTALLATION OF NEW FIXTURE/CONTROL AS SHOWN AT NEW CEILING AREA, U.O.N. RETAIN AND MODIFY <E> CIRCUITRY FOR RECONNECTION OF NEW FIXTURES WITH SWITCHING ZONES AS SHOWN. CONNECT EMERGENCY LIGHT AND EXIT SIGN TO <E> UN-SWITCHED CIRCUIT IN THE AREA.
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SHEET NOTES:

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FA CABLE LEGEND

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WEST PENN AQ226 – BELOW GRADE

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2 EACH THWN #12 – BELOW GRADE
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PROJECT # 217279

UNIT B - ELECTRICAL PLANS

RUSSO-McENTEE ACADEMY- HVAC UPGRADES
2851 GAY AVE., SAN JOSE, CA 95127
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

REVISIONS

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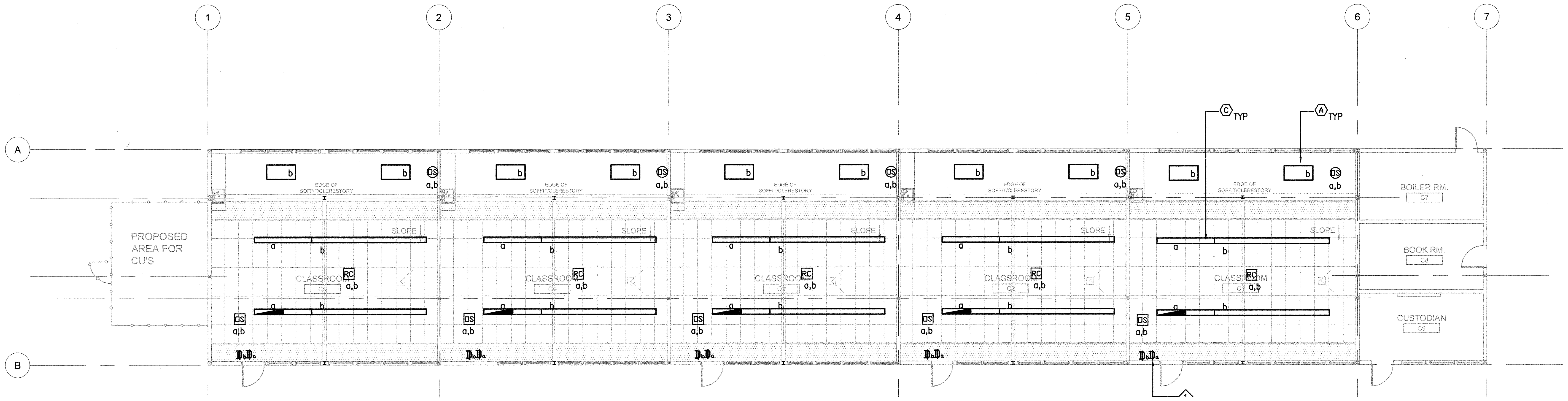
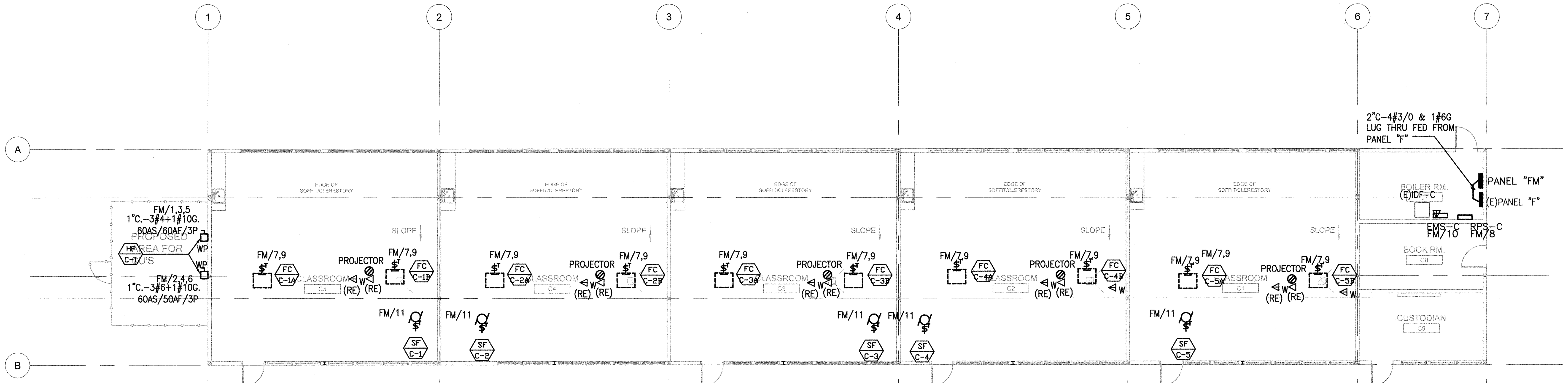


1 UNIT C - LIGHTING PLAN

1/8" = 1'-0"

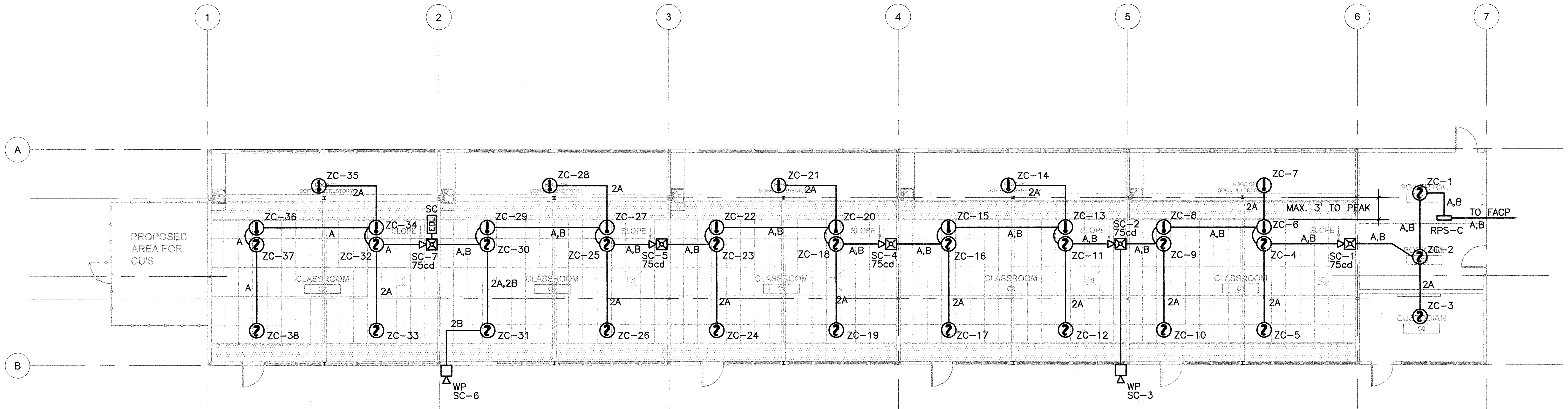
0 2' 4' 8' 16' 24'



2 UNIT C - ELECTRICAL PLAN

1/8" = 1'-0"

0 2' 4' 8' 16' 24'



3 UNIT C - FIRE ALARM PLAN

1/8" = 1'-0"

0 2' 4' 8' 16' 24'

DEMOLITION NOTES:

1. DISCONNECT AND REMOVE ALL EXISTING LIGHT FIXTURES AND CONTROL FOR INSTALLATION OF NEW FIXTURE/CONTROL AS SHOWN AT NEW CEILING AREA, U.O.N. RETAIN AND MODIFY <E> CIRCUITRY FOR RECONNECTION OF NEW FIXTURES WITH SWITCHING ZONES AS SHOWN. CONNECT EMERGENCY LIGHT AND EXIT SIGN TO <E> UN-SWITCHED CIRCUIT IN THE AREA.
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SHEET NOTES:

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WEST PENN AQ226 – BELOW GRADE

VISUAL NOTIFICATION
'B' = 2 EACH THHN #12 – RACEWAY
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S. MARK FISHER
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PROJECT # 217279

UNIT C - ELECTRICAL PLANS

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ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

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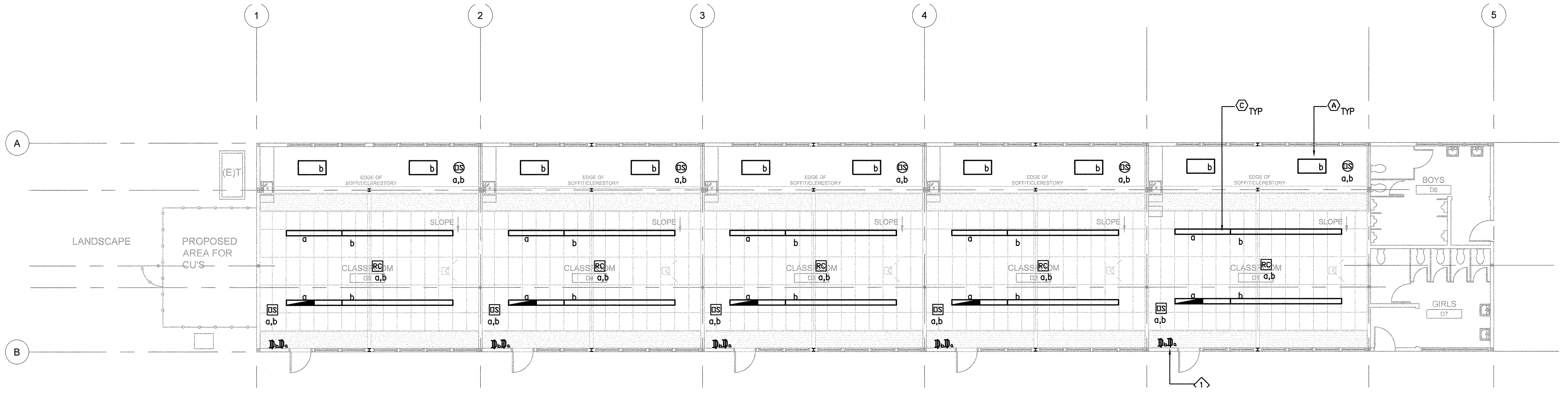
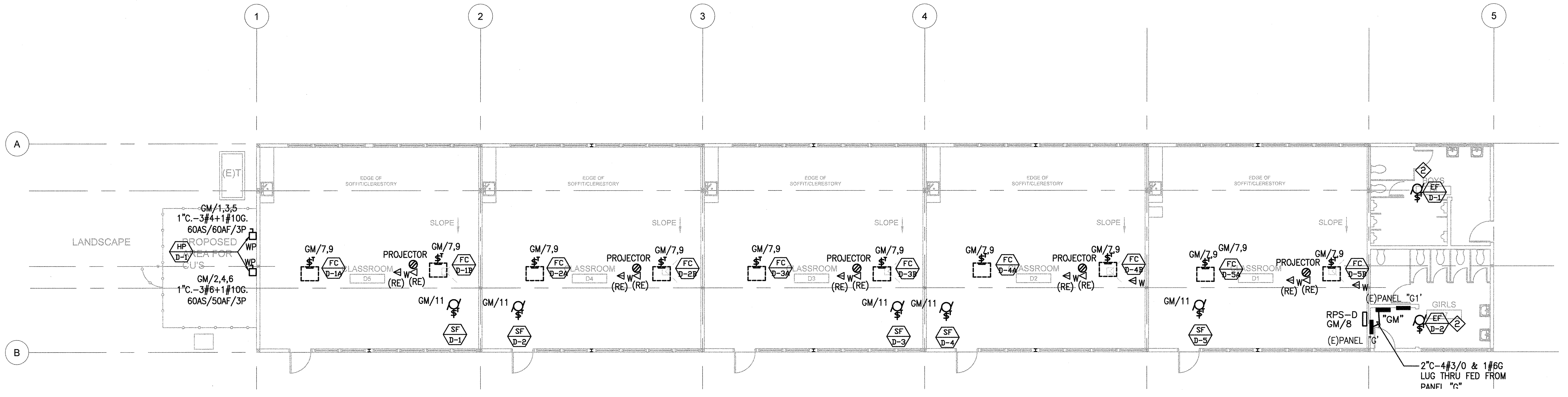


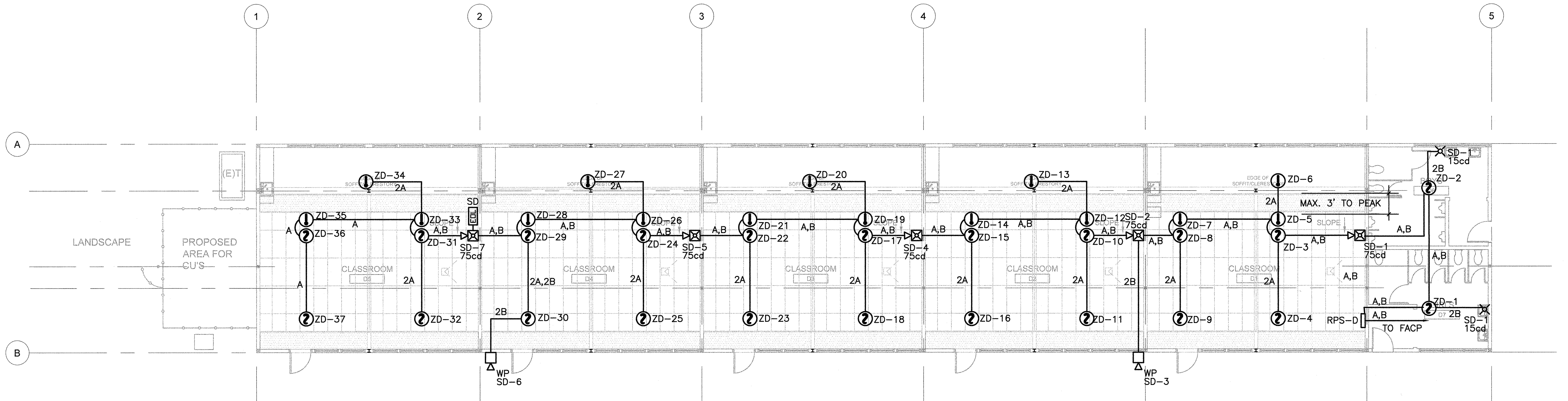
1 UNIT D - LIGHTING PLAN

1/8" = 1'-0"



2 UNIT D - ELECTRICAL PLAN

1/8" = 1'-0"



3 UNIT D - FIRE ALARM PLAN

1/8" = 1'-0"

DEMOLITION NOTES:

1. DISCONNECT AND REMOVE ALL EXISTING LIGHT FIXTURES AND CONTROL FOR INSTALLATION OF NEW FIXTURE/CONTROL AS SHOWN AT NEW CEILING AREA, U.O.N. RETAIN AND MODIFY <E> CIRCUITRY FOR RECONNECTION OF NEW FIXTURES WITH SWITCHING ZONES AS SHOWN. CONNECT EMERGENCY LIGHT AND EXIT SIGN TO <E> UN-SWITCHED CIRCUIT IN THE AREA.
2. DISCONNECT AND REMOVE EXISTING CEILING MOUNTED WIRELESS ACCESS DATA JACK AS SHOWN. RETAIN <E> JACKS / CABLES FOR REINSTALLATION AND RECONNECTION AT NEW CEILING. PROVIDE TESTING TO ENSURE PROPER OPERATION.
3. DISCONNECT AND REMOVE <E> FA DEVICES AND CABLES IN THE SCOPE AREA. REMOVE WIRES BACK TO THE NEAREST SOURCE. PROVIDE BLANK COVERS PLATE AT REMOVED DEVICES. RETAIN <E> CONDUIT FOR INSTALLATION OF NEW CABLES.
4. COORDINATE WITH MECH TO DISCONNECT AND REMOVE <E> POWER CONNECTIONS OF REMOVED MECH UNITS. REMOVE CONDUITS AND WIRES BACK TO SOURCE.
5. DISCONNECT AND REMOVE <E> UN-USED SURFACE MOUNTED RACEWAY / WIREMOLD BACK TO THE NEAREST SOURCE.
6. DISCONNECT AND REMOVE POWER CONNECTION FOR THE OVERHEAD PROJECTOR. RETAIN AND EXTEND <E> CIRCUITRY TO NEW POWER OUTLET MOUNTED AT NEW T BAR CEILING FOR THE REINSTALLED PROJECTOR. REFER TO ARCH DWG. FOR MOUNTING DETAIL. PROVIDE TESTING TO ENSURE PROPER OPERATION.

GENERAL NOTES:

1. SEE WIRING DIAGRAM FOR LIGHTING CONTROL REQUIREMENT.
2. PROVIDE SURFACE WIREMOLD 2300 AT NON-ACCESSIBLE WALL /CEILING SURFACE FOR CABLING AS NEEDED.
3. ALL CONDUITS SHALL BE CONCEALED IN WALLS, ABOVE CEILING AND NOT ALLOWED ON ROOF, U.O.N.

SHEET NOTES:

◇1 REPLACE <E> SWITCHES WITH NEW CONTROL AS SHOWN.

◇2 CONNECT EXHAUST FAN TO <E> LIGHTING CIRCUIT VIA LIGHTING CONTROL.

FA CABLE LEGEND

INITIATION
'A' = WEST PENN 994 – ABOVE GRADE
WEST PENN AQ226 – BELOW GRADE

VISUAL NOTIFICATION
'B' = 2 EACH THHN #12 – RACEWAY
2 EACH THWN #12 – BELOW GRADE
WEST PENN 998 – ABOVE GRADE WITHOUT RACEWAY

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LICENSED ARCHITECT
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NO. C-24673
REN. 9-30-17
STATE OF CALIFORNIA

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E16525
Exp. 12-31-19
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Date Signed 05/22/2018

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SYDNEY MELBOURNE • DUBLIN • CORK LONDON DUBAI
PROJECT # 217279

UNIT D - ELECTRICAL PLANS

RUSSO-McENTEE ACADEMY- HVAC UPGRADES
2851 GAY AVE., SAN JOSE, CA 95127
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE
	DD SUBMITTAL	12-8-17
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DSA FILE NUMBER 43-04

IDENTIFICATION STAMP
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DATE MAY 2 2 2018

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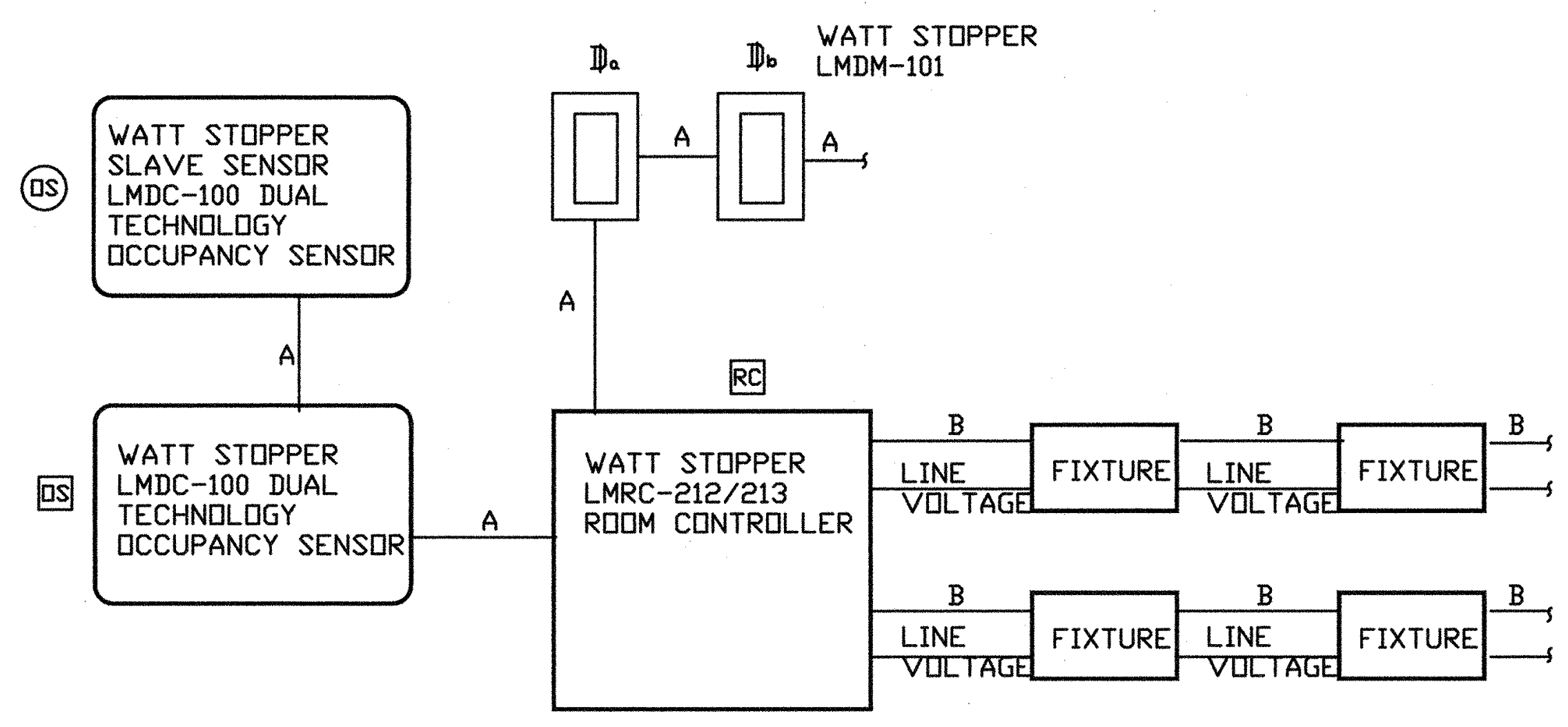
E2.6



NOTE:

1. REFER TO PLAN FOR EXACT LOCATION AND ZONE CONTROL REQUIREMENT.
2. CONTRACTOR SHALL PROVIDE ALL COMPONENT REQUIRED FOR DIGITAL CONTROL SYSTEM IN EACH AREA.
3. CONTRACTOR SHALL SCHEDULE A PRE-INSTALLATION SITE VISIT WITH WATT STOPPER REPRESENTATIVE AFTER RECEIPT OF APPROVED SUBMITTAL FOR THE CONTROL FUNCTION OVERVIEW AND INSTALLATION REQUIREMENTS.

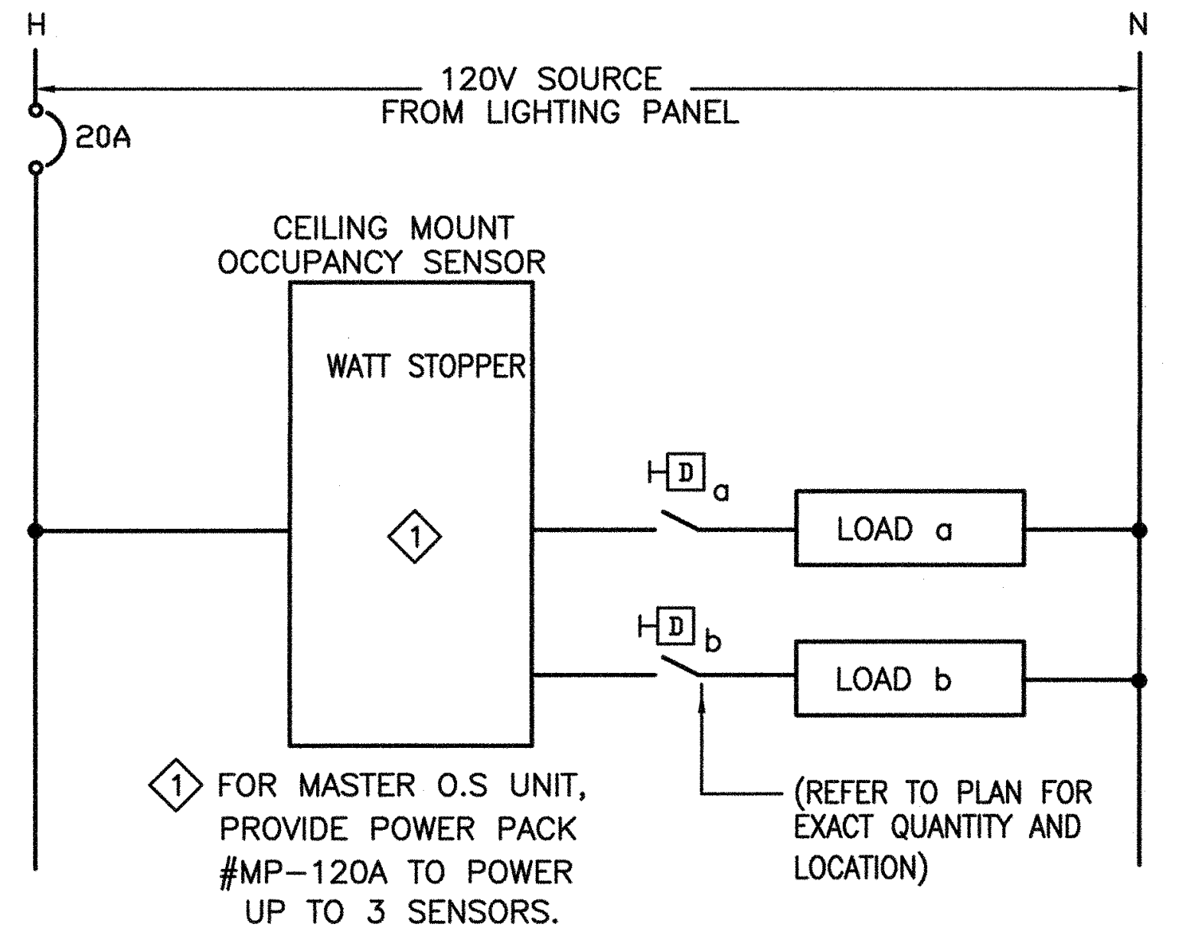
CABLE LEGEND:

A = WATT STOPPER LMRJ CABLE

B = CLASS 2 0-10V CONTROL CABLE

6 DIGITAL CONTROL DIAGRAM

SCALE: NOT TO SCALE



1 FOR MASTER O.S UNIT, PROVIDE POWER PACK #MP-120A TO POWER UP TO 3 SENSORS.

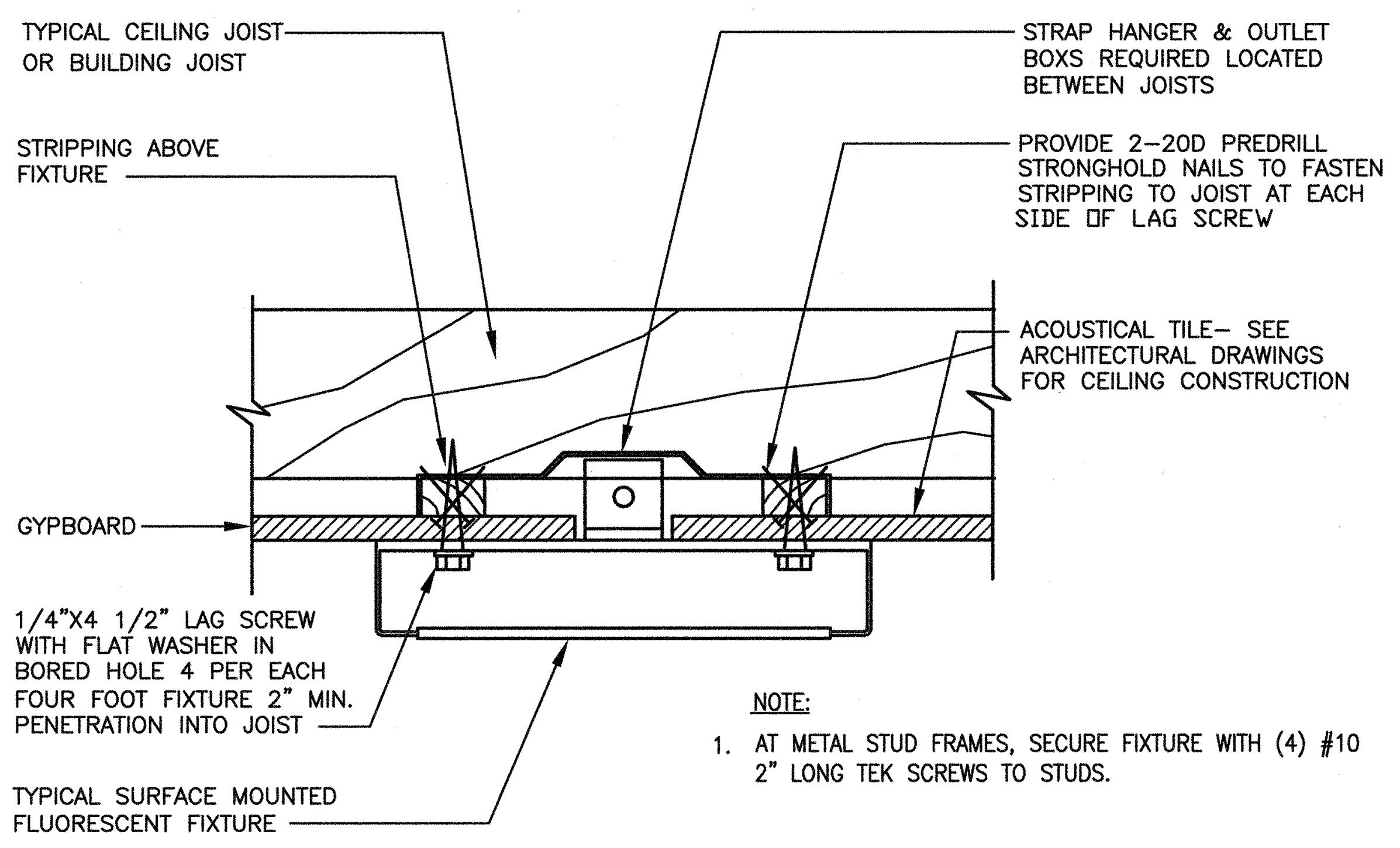
(REFER TO PLAN FOR EXACT QUANTITY AND LOCATION)

NOTE:

1. CONFIRM WITH WATT STOPPER FOR APPROPRIATE SENSOR USED IN EACH AREA SHOWN ON THE PLANS PRIOR TO ORDERING. PROVIDE ALL NECESSARY POWER PACK FOR A COMPLETE DIMMING CONTROL SYSTEM.

7 CEILING-MOUNTED OS WITH WALL MOUNTED DIMMER CONTROL

SCALE: NOT TO SCALE

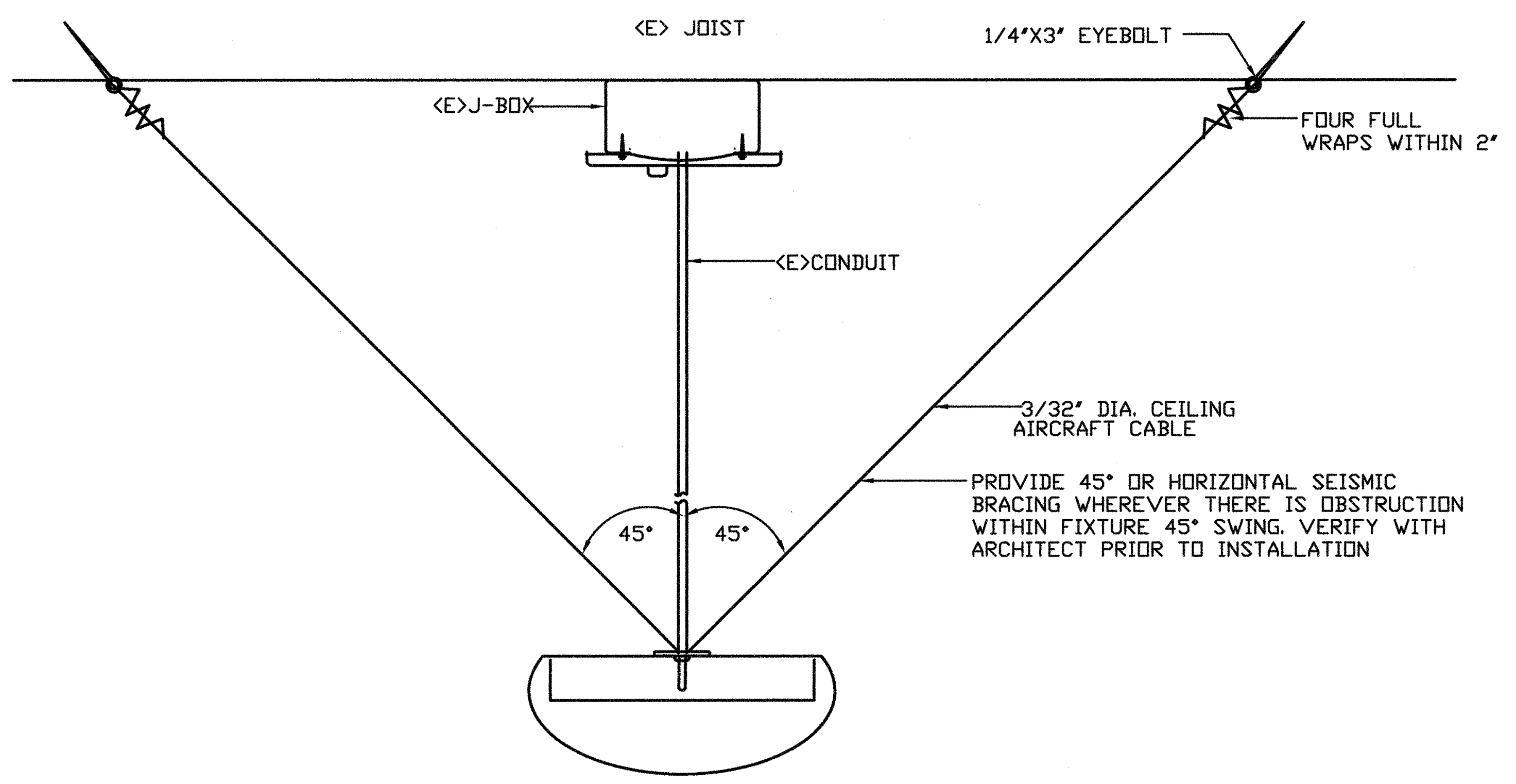

TYPICAL CEILING JOIST OR BUILDING JOIST
STRIPPING ABOVE FIXTURE
GYPBOARD
1/4"X4 1/2" LAG SCREW WITH FLAT WASHER IN BORED HOLE 4 PER EACH FOUR FOOT FIXTURE 2" MIN. PENETRATION INTO JOIST
TYPICAL SURFACE MOUNTED FLUORESCENT FIXTURE
STRAP HANGER & OUTLET BOXS REQUIRED LOCATED BETWEEN JOISTS
PROVIDE 2-20D PREDRILL STRONGHOLD NAILS TO FASTEN STRIPPING TO JOIST AT EACH SIDE OF LAG SCREW
ACOUSTICAL TILE- SEE ARCHITECTURAL DRAWINGS FOR CEILING CONSTRUCTION

NOTE:

1. AT METAL STUD FRAMES, SECURE FIXTURE WITH (4) #10 2" LONG TEK SCREWS TO STUDS.

3 SURFACE MOUNTED FIXTURE

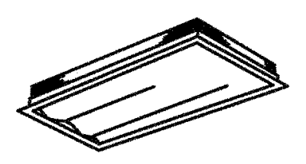
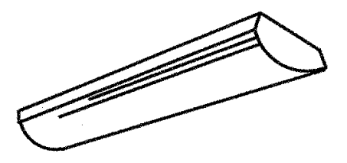
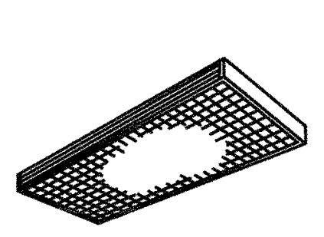
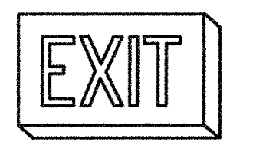
SCALE: NOT TO SCALE


<E> JOIST
1/4"X3" EYEBOLT
<E>J-BOX
FOUR FULL WRAPS WITHIN 2"
<E>CONDUIT
3/32" DIA. CEILING AIRCRAFT CABLE
PROVIDE 45° OR HORIZONTAL SEISMIC BRACING WHEREVER THERE IS OBSTRUCTION WITHIN FIXTURE 45° SWING. VERIFY WITH ARCHITECT PRIOR TO INSTALLATION
45°
45°

4 PENDANT MOUNTED FIXTURE

SCALE: NOT TO SCALE

FIXTURE SCHEDULE-INTERIOR

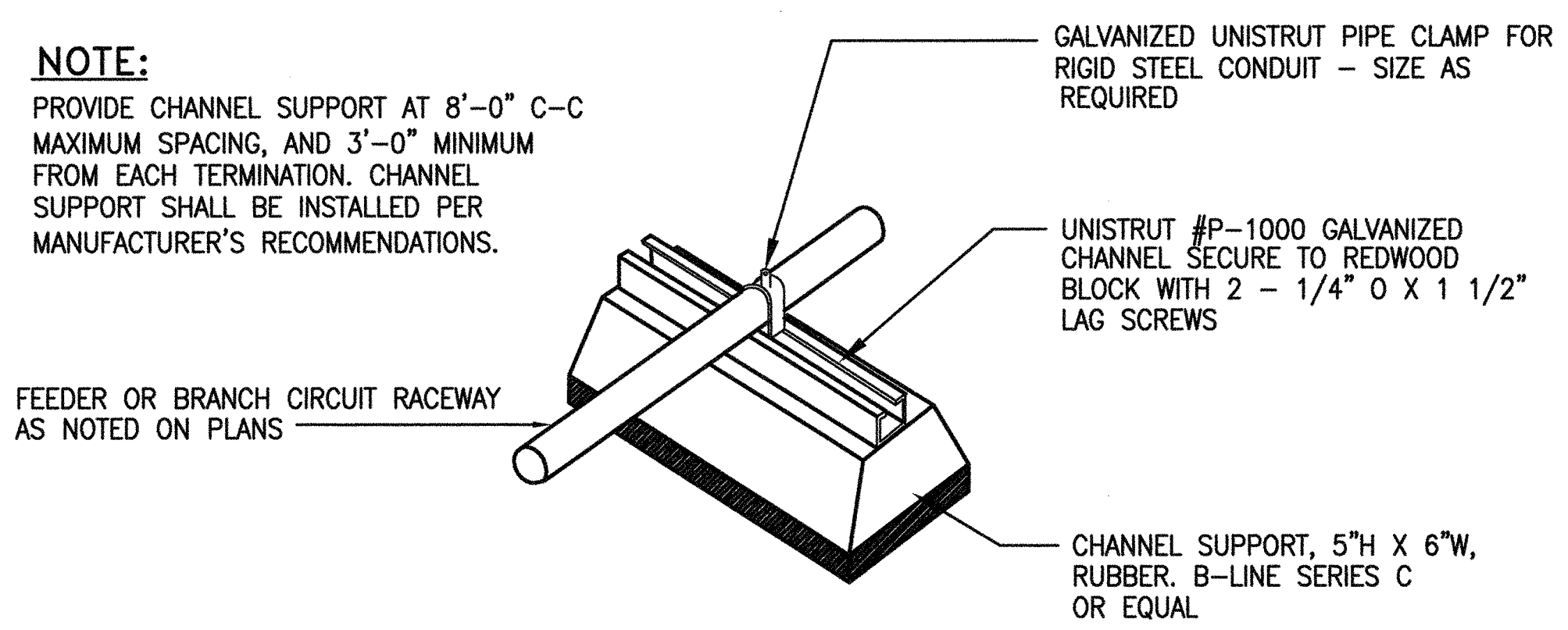
TYPE	SKETCH	DESCRIPTION	FINISH	MANUFACTURER	LAMP
A		2'X4' T BAR LAY IN LED LUMINAIRE WITH COLD ROLLED STEEL HOUSING, REFLECTORS, DIFFUSE CENTER OPTIC IMPACT RESISTANT FROSTED WAVE ACRYLIC LENS, 0-10V LED DIMMING DRIVER. 120VAC	WHITE	FINELITE HPR-LED-WAV2X4-DCO-HO-3500K-120V-SC-C1	41W LED 3500K 90 CRI
A1		SIMILAR TO TYPE "A" EXCEPT WITH 1700 LUMEN EMERGENCY BATTERY PACK.	WHITE	FINELITE HPR-LED-WAV2X4-DCO-HO-3500K-120V-SC-C1-EM	41W LED 3500K 90 CRI
A2		SIMILAR TO TYPE "A" EXCEPT 2'X2'.	WHITE	FINELITE HPR-LED-WAV2X2-DCO-HO-3500K-120V-SC-C1	43W LED 3500K 90 CRI
A3		SIMILAR TO TYPE "A2" EXCEPT WITH EMERGENCY BATTERY PACK.	WHITE	FINELITE HPR-LED-WAV2X2-DCO-HO-3500K-120V-SC-C1-EM	43W LED 3500K 90 CRI
B		4' SURFACE MOUNTED LED WRAPAROUND WITH COLD GAUGE STEEL HOUSING, ACRYLIC PRISMATIC DIFFUSER, IRON PHOSPHATE FINISH, CURVED PRISMATIC DIFFUSER LENS, LED DRIVERS. 120VAC	WHITE	WILLIAMS 394-L52-835-DRV-UNV OR DAYBRITE, METALUX EQUAL	51W LED 3500K
B1		SIMILAR TO TYPE "B" EXCEPT WITH EMERGENCY BATTERY PACK.	WHITE	WILLIAMS 394-L52-835-EM-DRV-UNV OR DAYBRITE, METALUX EQUAL	51W LED 3500K
C		HIGH PERFORMANCE LED INDIRECT/INDIRECT AIRCRAFT CABLE SUSPENDED FIXTURE, EXTRUDED ALUMINUM BODY OF LENGTH AS SHOWN ON PLAN, DIE FORMED 20 GAUGE CRS REFLECTOR, FROSTED SHANP-IN LENS, 120V DIMMING DRIVER AND EMERGENCY BATTERY PACK AT LOCATION AS SHOWN ON PLAN	WHITE	FINELITE HP-4ID-XX-SO-HO-3500K-TG-120V-FA-SC-C1 OR APPROVAL EQUAL	55W LED 3500K
D		2'X4' SURFACE MOUNTED LED LUMINAIRE WITH COLD ROLLED STEEL POST PAINTED HOUSING, FROSTED ACRYLIC LENS, FLAT DOOR FRAME, LED DIMMING DRIVER. 120VAC	WHITE	WILLIAMS 124-L52/935-FAF12125-DIM-120V OR APPROVED EQUAL	59W LED 3500K 90 CRI
D1		SIMILAR TO TYPE "D" EXCEPT WITH EMERGENCY BATTERY PACK.	WHITE	WILLIAMS 124-L52/935-FAF12125-EM-DIM-120V OR APPROVED EQUAL	59W LED 3500K 90 CRI
X		WALL MOUNTED LED EXIT SIGN WITH GREEN LETTERS ON WHITE BACKGROUND, THERMOPLASTIC HOUSING, INDICATING ARROWS AS SHOWN AND EMERGENCY BATTERY PACK. 277VAC	WHITE W/GREEN LETTERS	SURE-LITES LPX SERIES LPX70DG-WH EMERGI-LITE OR APPROVED EQUAL	LED

GENERAL NOTES:

1. ALL LED FIXTURES SHALL HAVE EFFICACY OF 85 LUMEN/WATT MIN. AND 85 CRI MIN. TO QUALIFY FOR UTILITY ENGERGY REBATE.
2. EMERGENCY FIXTURE SHALL BE WIRED TO BE SWITCH & SHALL NOT BE WIRED AS NIGHT LIGHT.

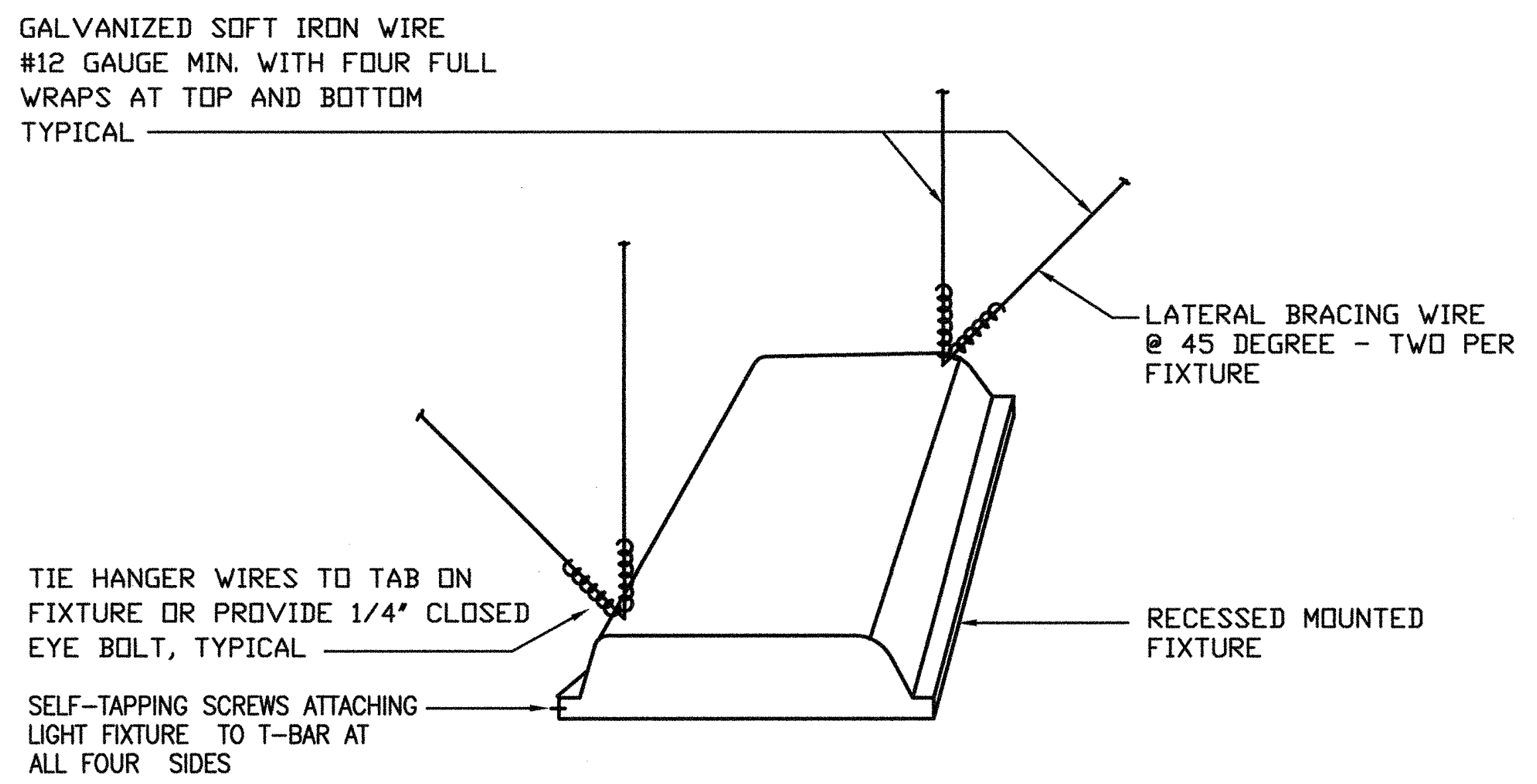
NOTE:

PROVIDE CHANNEL SUPPORT AT 8'-0" C-C MAXIMUM SPACING, AND 3'-0" MINIMUM FROM EACH TERMINATION. CHANNEL SUPPORT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.


GALVANIZED UNISTRUT PIPE CLAMP FOR RIGID STEEL CONDUIT - SIZE AS REQUIRED
UNISTRUT #P-1000 GALVANIZED CHANNEL SECURE TO REDWOOD BLOCK WITH 2 - 1/4" O X 1 1/2" LAG SCREWS
FEEDER OR BRANCH CIRCUIT RACEWAY AS NOTED ON PLANS
CHANNEL SUPPORT, 5"H X 6"W, RUBBER. B-LINE SERIES C OR EQUAL

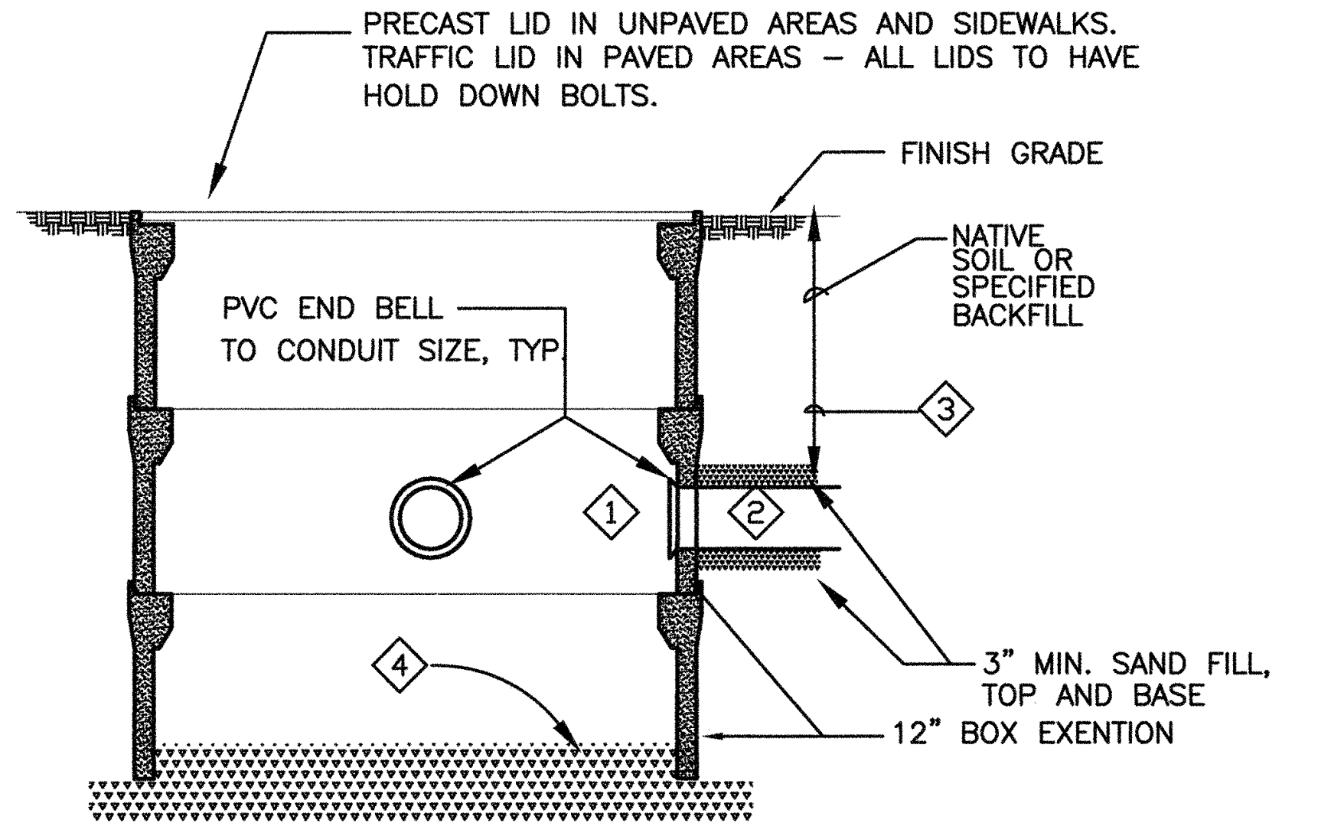
8 ROOF SLEEPER/CONDUIT SUPPORT

SCALE: NOT TO SCALE


GALVANIZED SOFT IRON WIRE #12 GAUGE MIN. WITH FOUR FULL WRAPS AT TOP AND BOTTOM TYPICAL
LATERAL BRACING WIRE @ 45 DEGREE - TWO PER FIXTURE
TIE HANGER WIRES TO TAB ON FIXTURE OR PROVIDE 1/4" CLOSED EYE BOLT, TYPICAL
SELF-TAPPING SCREWS ATTACHING LIGHT FIXTURE TO T-BAR AT ALL FOUR SIDES
RECESSED MOUNTED FIXTURE

5 TYPICAL RECESSED FIXTURE IN T-BAR CEILING

SCALE: NOT TO SCALE


PRECAST LID IN UNPAVED AREAS AND SIDEWALKS. TRAFFIC LID IN PAVED AREAS - ALL LIDS TO HAVE HOLD DOWN BOLTS.
FINISH GRADE
NATIVE SOIL OR SPECIFIED BACKFILL
PVC END BELL TO CONDUIT SIZE, TYP.
1
2
3
4
3" MIN. SAND FILL, TOP AND BASE
12" BOX EXENTION

NOTE:

1 ALL CONDUIT(S) AS SPECIFIED TO ENTER HORIZONTALLY INTO PULL BOXES

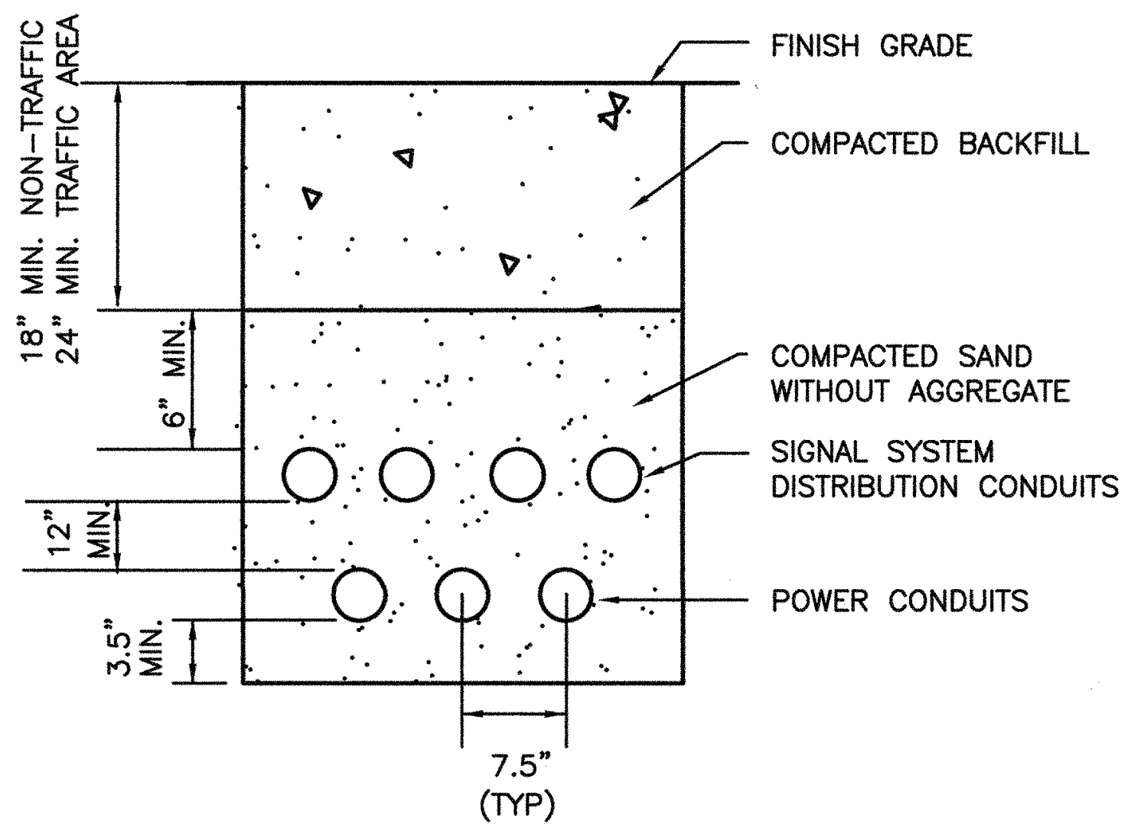
2 ALL CONDUIT TO SLOPE 3° FROM CENTER OF RUN BACK TO EACH BOX

3 DEPTH PER NFPA 70 (NEC) ARTICLE 300-5 AND TABLE 300-5

4 BOXES TO BE PLACED ON 1" MIN. SIZE DRAIN ROCK 3" MIN. DEPTH WITH 3" MIN. IN BOTTOM OF BOX

2 PULL BOX INSTALLATION

SCALE: NOT TO SCALE



NOTES:

1. SEE SITE PLAN FOR NUMBER AND SIZE OF CONDUITS PER TRENCH.

1 TYPICAL TRENCH DETAIL

SCALE: NOT TO SCALE

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PROJECT # 217279

FIXTURE SCHEDULE AND DETAILS

RUSSO-McENTEE ACADEMY- HVAC UPGRADES
2851 GAY AVE., SAN JOSE, CA 95127
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DSA FILE NUMBER 43-04

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL 01-117267
AC KG FLS MS SS JM
DATE MAY 22 2018

DRAWN BY: AT
CHECKED BY: AT
JOB NO: 17116
DATE: 05/22/18

E4.1

PANEL "FM"

LOCATION: BLDG C

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	DESCRIPTION	TYPE
M3	HP-C-1	5000	60/3	1	9000			2	50/3	4000	HP-C-1	M3
M3	-	5000	-	3		9000		4	-	4000	-	M3
M3	-	5000	-	5			9000	6	-	4000	-	M3
M2	FC-C-1A TO FC-C-5B	800	20/2	7	1000			8	20/1	200	RPS-C	O
M2	-	800	-	9		1000		10	20/1	200	EMS-C	O
M1	SF-C-1 TO SF-C-5	800	20/1	11			800	12	20/1		SPARE	
	SPARE		20/1	13	0			14	20/1		SPARE	
	SPARE		20/1	15		0		16	20/1		SPARE	
	SPARE		20/1	17			0	18	20/1		SPARE	
	SPARE		20/1	19	0			20	20/1		SPARE	
	SPARE		20/1	21		0		22	20/1		SPARE	
	SPARE		20/1	23			0	24	20/1		SPARE	
	SPACE			25	0			26			SPACE	
	SPACE			27		0		28			SPACE	
	SPACE			29			0	30			SPACE	
	SPACE			31	0			32			SPACE	
	SPACE			33		0		34			SPACE	
	SPACE			35			0	36			SPACE	
	SPACE			37	0			38			SPACE	
	SPACE			39		0		40			SPACE	
	SPACE			41			0	42			SPACE	
				VA	10000	10000	9800					
				AMPS	83	83	82					

BUS RATING:	225			GROUND:	BUS	NOTES:
VOLTAGE:	208 /120V			MOUNTING:	SURFACE	
PHASE:	3			ENCLOSURE:	NEMA 1	
WIRE:	4			FEED:		
MCB OR LUGS:	200	MLO	80%	CONNECTED KVA:	29.8	
AIC RATING:	10K			CONNECTED AMPS:	82.7	
BUS:	200			R - RECEPTACLE KVA LOAD:	0.0	
NEUTRAL:	100%			L - LIGHTING KVA LOAD:	0.0	
MAX. ALLOWED AMPS	160			M1, M2 OR M3 - MOTOR KVA LOAD:	33.2	
				O - OTHER KVA LOAD:	0.4	
				FEEDER LOAD AMP:	93.1	

PANEL "GM"

LOCATION: BLDG. D

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	DESCRIPTION	TYPE
M3	HP-D-1	5000	60/3	1	9000			2	50/3	4000	HP-D-1	M3
M3	-	5000	-	3		9000		4	-	4000	-	M3
M3	-	5000	-	5			9000	6	-	4000	-	M3
M2	FC-D-1A TO FC-D-5B	800	20/1	7	1000			8	20/1	200	RPS-D	O
M2	-	800	20/1	9		800		10	20/1		SPARE	
M1	SF-D-1 TO SF-D-5	500	20/1	11			500	12	20/1		SPARE	
	SPARE		20/1	13	0			14	20/1		SPARE	
	SPARE		20/1	15		0		16	20/1		SPARE	
	SPARE		20/1	17			0	18	20/1		SPARE	
	SPARE		20/1	19	0			20	20/1		SPARE	
	SPARE		20/1	21		0		22	20/1		SPARE	
	SPARE		20/1	23			0	24	20/1		SPARE	
	SPACE			25	0			26			SPACE	
	SPACE			27		0		28			SPACE	
	SPACE			29			0	30			SPACE	
	SPACE			31	0			32			SPACE	
	SPACE			33		0		34			SPACE	
	SPACE			35			0	36			SPACE	
	SPACE			37	0			38			SPACE	
	SPACE			39		0		40			SPACE	
	SPACE			41			0	42			SPACE	
				VA	10000	9800	9500					
				AMPS	83	82	79					

BUS RATING:	225			GROUND:	BUS	NOTES:
VOLTAGE:	208 /120V			MOUNTING:	SURFACE	
PHASE:	3			ENCLOSURE:	NEMA 1	
WIRE:	4			FEED:		
MCB OR LUGS:	200	MLO	80%	CONNECTED KVA:	29.3	
AIC RATING:	10K			CONNECTED AMPS:	81.3	
BUS:	200			R - RECEPTACLE KVA LOAD:	0.0	
NEUTRAL:	100%			L - LIGHTING KVA LOAD:	0.0	
MAX. ALLOWED AMPS	160			M1, M2 OR M3 - MOTOR KVA LOAD:	32.9	
				O - OTHER KVA LOAD:	0.2	
				FEEDER LOAD AMP:	91.7	

PANEL "KM"

LOCATION: MP BLDG.

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	DESCRIPTION	TYPE
M3	CU-1-1	5000	60/3	1	13000			2	90/3	8000	HP-2-1 ADMIN	M3
M3	-	5000	-	3		13000		4	-	8000	-	M3
M3	-	5000	-	5			13000	6	-	8000	-	M3
M3	CU-1-2	5000	60/3	7	5000			8	20/1		SPARE	
M3	-	5000	-	9		5000		10	20/1		SPARE	
M3	-	5000	-	11			5000	12	20/1		SPARE	
M3	F-1-1	800	15/3	13	800			14	20/1		SPARE	
M3	-	800	-	15		800		16	20/1		SPARE	
M3	-	800	-	17			800	18	20/1		SPARE	
M3	F-1-2	800	15/3	19	800			20	20/1		SPARE	
M3	-	800	-	21		800		22	20/1		SPARE	
M3	-	800	-	23			800	24	20/1		SPARE	
	SPACE			25	0			26			SPACE	
	SPACE			27		0		28			SPACE	
	SPACE			29			0	30			SPACE	
	SPACE			31	0			32			SPACE	
	SPACE			33		0		34			SPACE	
	SPACE			35			0	36			SPACE	
	SPACE			37	0			38			SPACE	
	SPACE			39		0		40			SPACE	
	SPACE			41			0	42			SPACE	
				VA	19600	19600	19600					
				AMPS	163	163	163					

BUS RATING:	225			GROUND:	BUS	NOTES:
VOLTAGE:	208 /120V			MOUNTING:	SURFACE	
PHASE:	3			ENCLOSURE:	NEMA 3R	
WIRE:	4			FEED:		
MCB OR LUGS:	225	MCB	80%	CONNECTED KVA:	58.8	
AIC RATING:	10K			CONNECTED AMPS:	163.2	
BUS:	225			R - RECEPTACLE KVA LOAD:	0.0	
NEUTRAL:	100%			L - LIGHTING KVA LOAD:	0.0	
MAX. ALLOWED AMPS	180			M1, M2 OR M3 - MOTOR KVA LOAD:	64.8	
				O - OTHER KVA LOAD:	0.0	
				FEEDER LOAD AMP:	179.9	

PANEL "DM"

LOCATION: BLDG. A

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	DESCRIPTION	TYPE
M3	HP-A-1	5000	60/3	1	10000			2	60/3	5000	HP-A-1	M3
M3	-	5000	-	3		10000		4	-	5000	-	M3
M3	-	5000	-	5			10000	6	-	5000	-	M3
M2	FC-A-1A TO FC-A-7	800	20/2	7	1000			8	20/1	200	RPS-A	
M2	-	800	-	9		800		10	20/1		SPARE	
M1	SF-A-1 TO SF-A-5	800	20/1	11			800	12	20/1		SPARE	
	SPARE		20/1	13	0			14	20/1		SPARE	
	SPARE		20/1	15		0		16	20/1		SPARE	
	SPARE		20/1	17			0	18	20/1		SPARE	
	SPARE		20/1	19	0			20	20/1		SPARE	
	SPARE		20/1	21		0		22	20/1		SPARE	
	SPARE		20/1	23			0	24	20/1		SPARE	
	SPACE			25	0			26			SPACE	
	SPACE			27		0		28			SPACE	
	SPACE			29			0	30			SPACE	
	SPACE			31	0			32			SPACE	
	SPACE			33		0		34			SPACE	
	SPACE			35			0	36			SPACE	
	SPACE			37	0			38			SPACE	
	SPACE			39		0		40			SPACE	
	SPACE			41			0	42			SPACE	
				VA	11000	10800	10800					
				AMPS	92	90	90					

BUS RATING:	225			GROUND:	BUS	NOTES:
VOLTAGE:	208 /120V			MOUNTING:	SURFACE	
PHASE:	3			ENCLOSURE:	NEMA 1	
WIRE:	4			FEED:		
MCB OR LUGS:	200	MLO	80%	CONNECTED KVA:	32.6	
AIC RATING:	10K			CONNECTED AMPS:	90.5	
BUS:	200			R - RECEPTACLE KVA LOAD:	0.0	
NEUTRAL:	100%			L - LIGHTING KVA LOAD:	0.0	
MAX. ALLOWED AMPS	160			M1, M2 OR M3 - MOTOR KVA LOAD:	36.2	
				O - OTHER KVA LOAD:	0.2	
				FEEDER LOAD AMP:	100.9	

PANEL "BM"

LOCATION: BLDG. B

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	DESCRIPTION	TYPE
M3	HP-B-1	5000	60/3	1	9000			2	50/3	4000	HP-B-1	M3
M3	-	5000	-	3		9000		4	-	4000	-	M3
M3	-	5000	-	5			9000	6	-	4000	-	M3
M2	FC-B-1A TO FC-B-5B	800	20/2	7	1000			8	20/1	200	RPS-A	O
M2	-	800	-	9		800		10	20/1		SPARE	
M1	SF-A-1 TO SF-A-5	800	20/1	11			800	12	20/1		SPARE	
	SPARE		20/1	13	0			14	20/1		SPARE	
	SPARE		20/1	15		0		16	20/1		SPARE	
	SPARE		20/1	17			0	18	20/1		SPARE	
	SPARE		20/1	19	0			20	20/1		SPARE	
	SPARE		20/1	21		0		22	20/1		SPARE	
	SPARE		20/1	23			0	24	20/1		SPARE	
	SPACE			25	0			26			SPACE	
	SPACE			27		0		28			SPACE	
	SPACE			29			0	30			SPACE	
	SPACE			31	0			32			SPACE	
	SPACE			33		0		34			SPACE	
	SPACE			35			0	36			SPACE	
	SPACE			37	0			38			SPACE	
	SPACE			39		0		40			SPACE	
	SPACE			41			0	42			SPACE	
				VA	10000	9800	9800					
				AMPS	83	82	82					

BUS RATING:	225			GROUND:	BUS	NOTES:
VOLTAGE:	208 /120V			MOUNTING:	SURFACE	
PHASE:	3			ENCLOSURE:	NEMA 3R	
WIRE:	4			FEED:		
MCB OR LUGS:	225	MCB	80%	CONNECTED KVA:	29.6	
AIC RATING:	10K			CONNECTED AMPS:	82.2	
BUS:	225			R - RECEPTACLE KVA LOAD:	0.0	
NEUTRAL:	100%			L - LIGHTING KVA LOAD:	0.0	
MAX. ALLOWED AMPS	180			M1, M2 OR M3 - MOTOR KVA LOAD:	33.2	
				O - OTHER KVA LOAD:	0.2	
				FEEDER LOAD AMP:	92.6	

SUGIMURA
FINNEY
ARCHITECTS
SFA
ARCHITECTURE INTERIORS PLANNING

2155 SOUTH BASCOM AVE.
SUITE 200
CAMPBELL, CA 95008
PHONE: 408-879-0600
FAX: 408-377-6066

MARK C. FINNEY
NO. C-24673
REN. 9-30-17

S. MARK FISHER
E16525
Exp. 12-31-19

Date Signed 05/22/2018

ALFATECH
1321 RIDDER PARK DRIVE, SUITE 50 408-487-1200
SAN JOSE, CALIFORNIA 95131 FAX: 408-487-1422
SAN JOSE SAN FRANCISCO • THAILAND SINGAPORE
SYDNEY MELBOURNE • DUBLIN • CORK LONDON DUBAI
PROJECT # 217279

PANEL SCHEDULES

RUSSO-McENTEE ACADEMY- HVAC UPGRADES
2851 GAY AVE., SAN JOSE, CA 95127
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE
	DD SUBMITTAL	12-8-17
	DSA SUBMITTAL	01-31-18
	BID SET	04-06-18
	DSA BACKCHECK	05-22-18

DSA FILE NUMBER 43-04

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL 01-117267
AC ____ FLS MS SS ____
DATE MAY 22 2018

DRAWN BY: AT
CHECKED BY: AT
JOB NO: 17116
DATE: 05/22/18

E4.2

FIRE ALARM MATERIAL LIST

SYMBOL	NAME	DESCRIPTION	CALIFORNIA STATE FIRE MARSHAL LISTING
FACP	FIRE ALARM CONTROL PANEL ADDRESSIBLE WITH UDACT AND CELLUAR TRANSMITTER	GAMEWELL/FCI S3 CONTROL PANEL IPGSM-4G	7165-1703:0176
RPS	NEW FIRE ALARM REMOTE POWER SUPPLY WITH 8 AMP BATTERY BACK-UP	GAMEWELL/FCI HPF24S8	7315-1637:0102
✕	FIRE ALARM STROBE LIGHT WITH CANDELLA AS NOTED	WHEELOCK STR	7125-0785:0168
⊠◁	FIRE ALARM HORN/STROBE WITH CANELLA AS NOTED	WHEELOCK HS	7125-0785:0168
☐◁ WP	FIRE ALARM EXTERIOR HORN WITH WEATHERPROOF BACK-BOX	WHEELOCK AH-24WP-R	7125-0785:0131
☐P	FIRE ALARM ADDRESSABLE MANUAL PULL STATION	GAMEWELL/FCI MS-7AF	7150-1703:0109
②	FIRE ALARM PHOTOELECTRONIC SMOKE DETECTOR 30 FT. RECOMMENDED SPACING	GAMEWEEL/FCI #ASD-PL2F/ADB-FLF	7272-1703:0121 7300-1703:0103
①	FIRE ALARM HEAT DETECTOR ABOVE CEILING, "C" INDICATES BELOW CEILING	GAMEWELL/FCI #ATD-HL2F/ADB-FLF	7270-1703:0115 7300-1703:0103
MM	MONITOR MODULE	GAMEWELL/FCI #AMM-2F	7300-1703:0102
RM	RELAY MODULE	GAMEWELL/FCI #AOM-2RF	7300-1703:0102
DOC	RECORD DOCUMENT CABINET	SPACE AGE SRD	7300-0553:0110
EOL	END OF LINE DEVICE		

INITIATION
'A' = WEST PENN 994 – ABOVE GRADE
WEST PENN AQ226 – BELOW GRADE

VISUAL NOTIFICATION
'B' = 2 EACH THHN #12 – RACEWAY
2 EACH THWN #12 – BELOW GRADE
WEST PENN 998 – ABOVE GRADE WITHOUT RACEWAY

APPLICABLE CODES:

2016 BUILDING STANDARDS' ADMINISTRATIVE CODE, PART 1, TITLE 24, C.C.R.
2016 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, C.C.R.
(2015 INTERNATIONAL BUILDING CODE AND 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24, C.C.R.
(2011 NATIONAL ELECTRICAL CODE AND 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, C.C.R.
(2015 UNIFORM MECHANICAL CODE AND 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, C.C.R.
(2015 UNIFORM PLUMBING CODE AND 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA ENERGY CODE, PART 6, TITLE 24, C.C.R.
2016 CALIFORNIA FIRE CODE, PART 9, TITLE 24, C.C.R.
(2015 INTERNATIONAL FIRE CODE AND 2016 CALIFORNIA AMENDMENTS)
TITLE 19 C.C.R. PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
PARTIAL LIST OF APPLICABLE STANDARDS:

NFPA 13	AUTOMATIC SPRINKLER SYSTEMS	2016 EDITION
NFPA 14	STANDPIPE SYSTEMS (CA AMENDED)	2013 EDITION
NFPA 17A	WET CHEMICAL SYSTEMS	2013 EDITION
NFPA 24	PRIVATE FIRE MAINS (CA AMENDED)	2016 EDITION
NFPA 72	NATIONAL FIRE ALARM CODE (CA AMENDED)	2016 EDITION

REFERENCE CODE SECTION FOR NFPA STANDARDS, 2016 CBC (SFM) CHAPTER 35.

SCOPE OF WORK :

PROVIDE NEW ADDRESSABLE, AUTOMATIC FIRE ALARM DEVICES AND CABLING AT KINDER/ADMIN AND BLDGS A, B, C, D NEW CEILING AREAS WITH CROSS TRIP CONNECTION TO <E> CAMPUS FIRE ALARM SYSTEM.

THE NEW FIRE ALARM SYSTEM COMPLIES WITH GREEN OAKS FAMILY ACADEMY ELEMENTRY SCHOOL FIRE PROTECTION ACT (SB 575)

CLASSROOMS DO NOT CONTAIN FUEL-BURNING APPLIANCE, FUEL BURNING FIREPLACE OR GAS FIRED FORCED-AIR FURNACE HENCE CARBON MONOXIDE DETECTION IS NOT REQUIRED.

TYPE OF SYSTEM

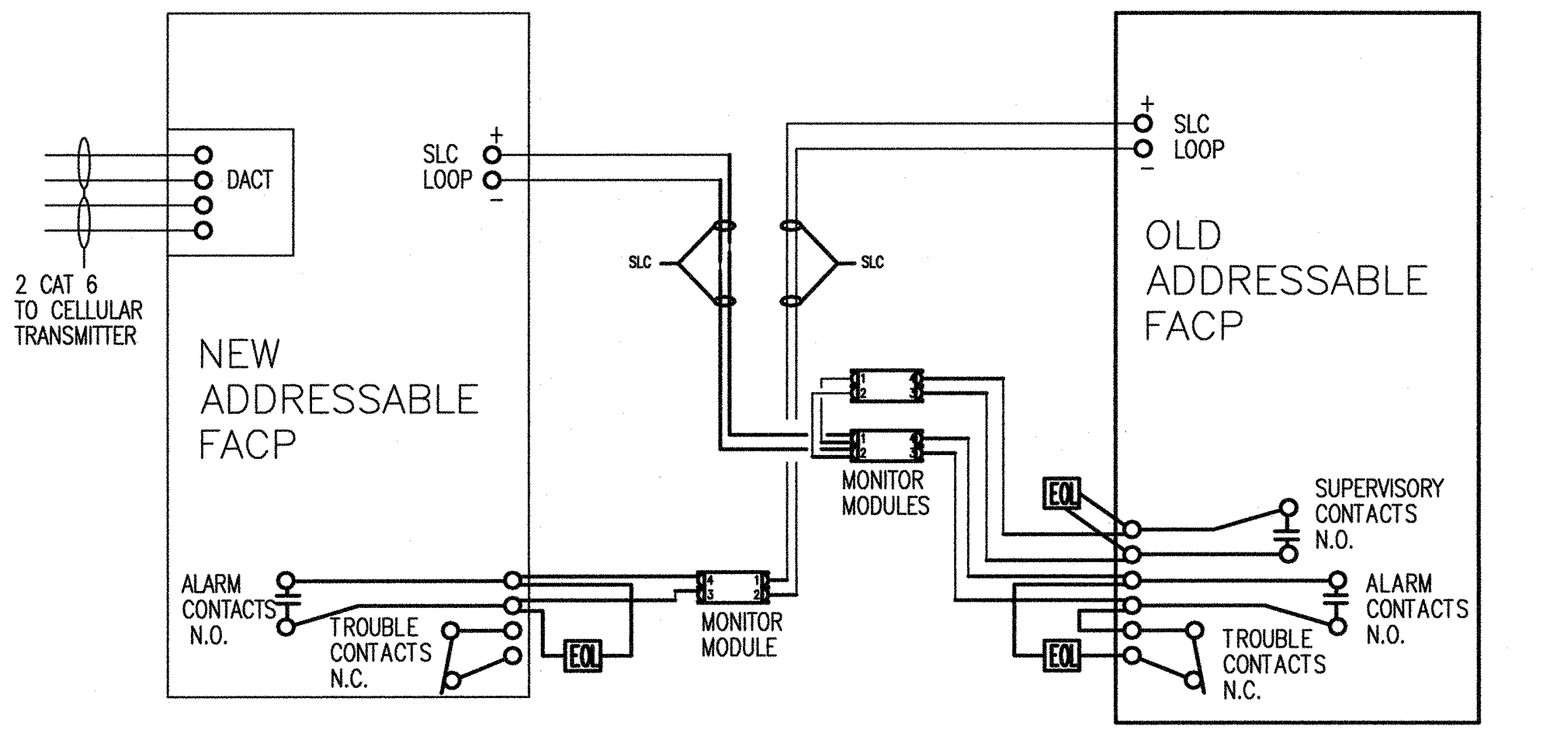
THIS IS A MANUAL / AUTOMATIC ADDRESSABLE FIRE ALARM SYSTEM.
CLASS "B" PER 2016 NFPA 72 SECTION 12.3.2.

FIRE ALARM NOTES

1. POWER SERVICE SHALL BE ON A DEDICATED BRANCH CIRCUIT WITH A RED MARKING AND IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL".
2. PROVIDE TEMPORAL-THREE DISTINCTIVE FIRE ALARM SOUND.
3. AUDIBLE FIRE ALARM SOUND LEVEL SHALL BE AT LEAST 15 dBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL IN ALL OCCUPIABLE AREAS. (I.E. CLASSROOM AVERAGE AMBIENT ROOM NOISE IS 45 dBA PLUS 15 dBA EQUALS = 60 dBA MINIMUM ALARM TONE REQUIRED.)
4. STROBES SHALL FLASH AT A RATE OF NOT EXCEEDING TWO FLASHES PER SECOND NOR BE LESS THAN ONE FLASH EVERY SECOND.
5. AUDIBLE SIGNALS INTENDED FOR OPERATION IN THE PUBLIC MODE SHOULD HAVE A SOUND LEVEL OF NOT LESS THAN 75 dBA AT 10 FEET OR MORE THAN 100 dBA AT THE MINIMUM HEARING DISTANCE FROM THE AUDIBLE APPLIANCE.
6. FINAL FIRE ALARM TEST SHALL BE MADE WITH THE DSA INSPECTOR OF RECORD (IOR). LOCAL FIRE AUTHORITY SHALL BE NOTIFIED OF DATE AND TIME OF FINAL FIRE ALARM TESTING AND SHALL ASSIST/WITNESS SUCH TESTING AT THEIR DISCRETION.
7. FIRE ALARM CONTRACTOR SHALL PROVIDE A "RECORD OF COMPLETION" TO THE INSPECTOR OF RECORD (IOR)/DSA AFTER COMPLETION OF OPERATIONAL ACCEPTANCE TEST.
8. FINAL FIRE ALARM TEST SHALL BE MADE WITH DSA INSPECTOR OF RECORD. LOCAL FIRE AUTHORITY SHALL BE NOTIFIED OF DATE AND TIME OF FINAL FIRE ALARM TESTING AND SHALL ASSIST/WITNESS SUCH TESTING WHEN AVAILABLE.
9. ALL FIRE ALARM WIRE SHALL BE INSTALLED IN CONDUIT MIN. SIZE 3/4" OR 800 WIREMOLD AT FINISHED AREA UNLESS OTHERWISE NOTED. EXTERIOR AND UNDERGROUND CONDUITS SHALL HAVE WATER TIGHT FITTINGS. (CEC 110-11 AND 300-6). FIRE RATED CABLE MAY BE ROUTED IN OPEN AIR ABOVE T-BAR CEILING WITHOUT CONDUITS.
10. CONTRACTOR SHALL VERIFY EXACT DEVICE AND CABLE TYPE WITH FACP MANUFACTURER TO ENSURE COMPATIBILITY PRIOR TO ORDERING.PROVIDE ALL NECESSARY MODULES, RELAYS, ETC TO ENSURE A COMPLETE OPERATING SYSTEM.

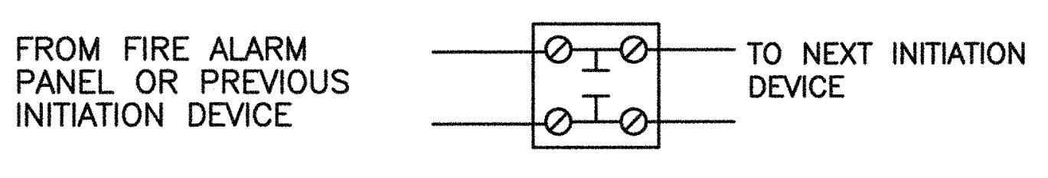
OPERATION MATRIX

	ACTUATE COMMON ALARM SIGNAL INDICATOR	ACTUATE AUDIBLE ALARM SIGNAL	ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	ACTUATE AUDIBLE SUPERVISORY SIGNAL	TRANSMIT ALARM SIGNAL TO SUPERVISING STATAION		
MANUAL STATIONS	✕	✕			✕		
SMOKE DETECTOR	✕	✕			✕		
HEAT DETECTOR	✕	✕			✕		

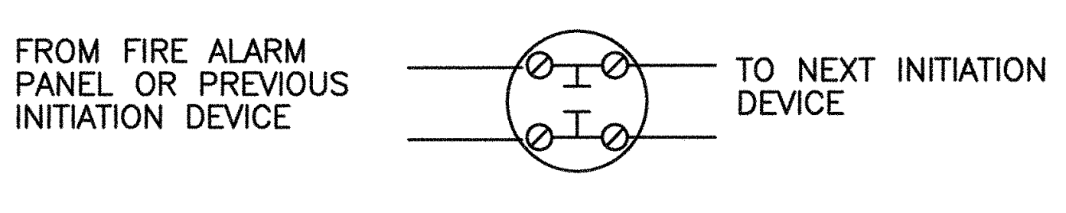


TYPICAL FACP CROSS CONNECT CIRCUIT DETAIL

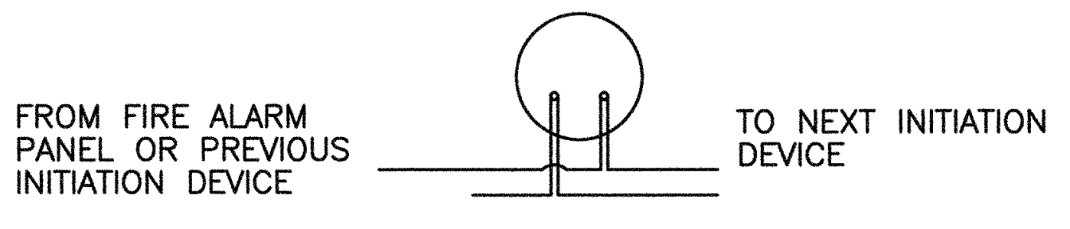
TYPICAL FIRE ALARM DETAILS



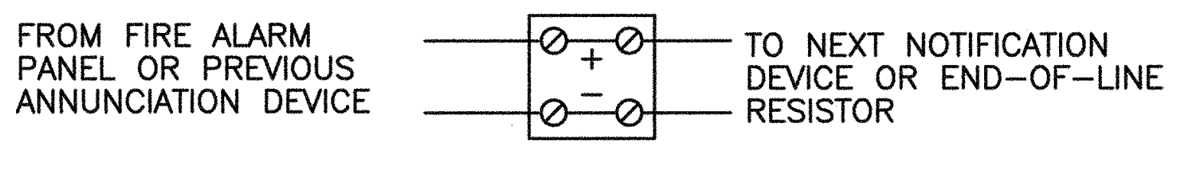
TYPICAL PULL STATION



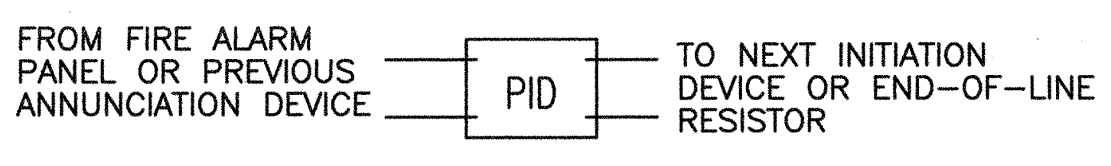
TYPICAL HEAT DETECTOR



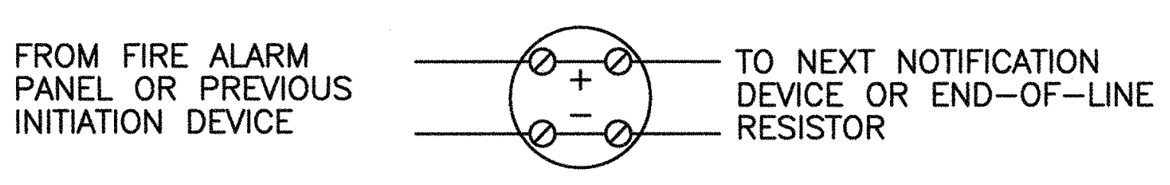
TYPICAL SMOKE DETECTOR



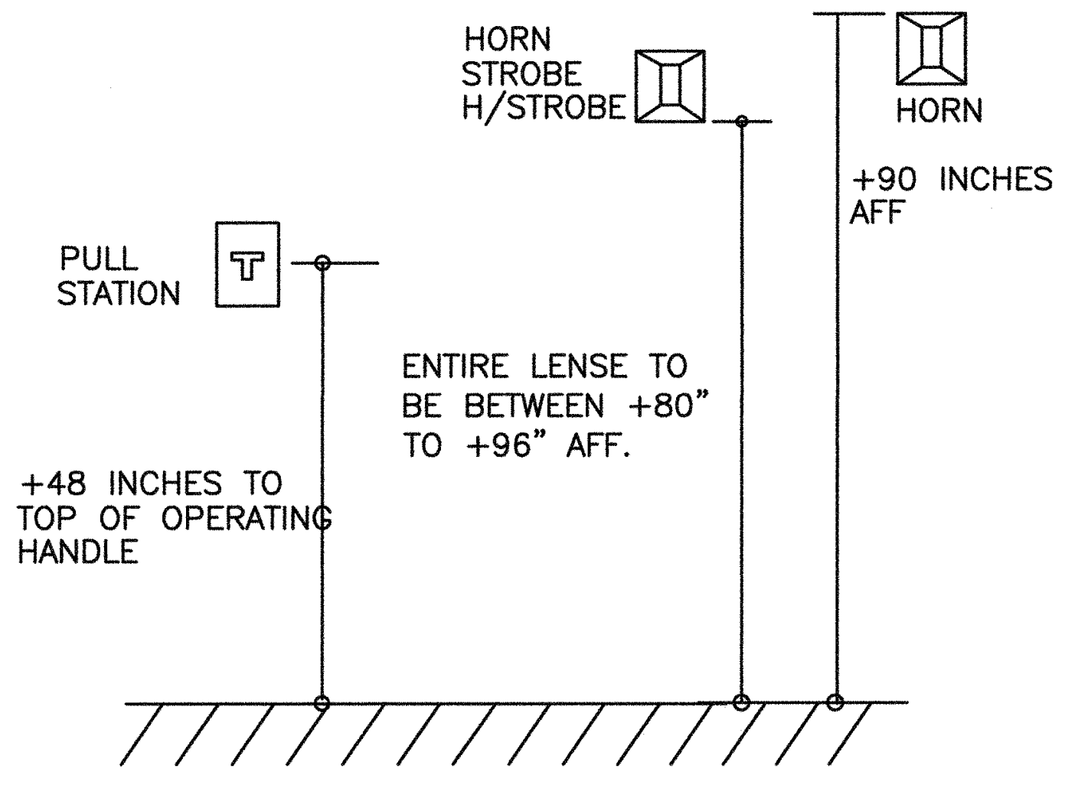
TYPICAL HORN



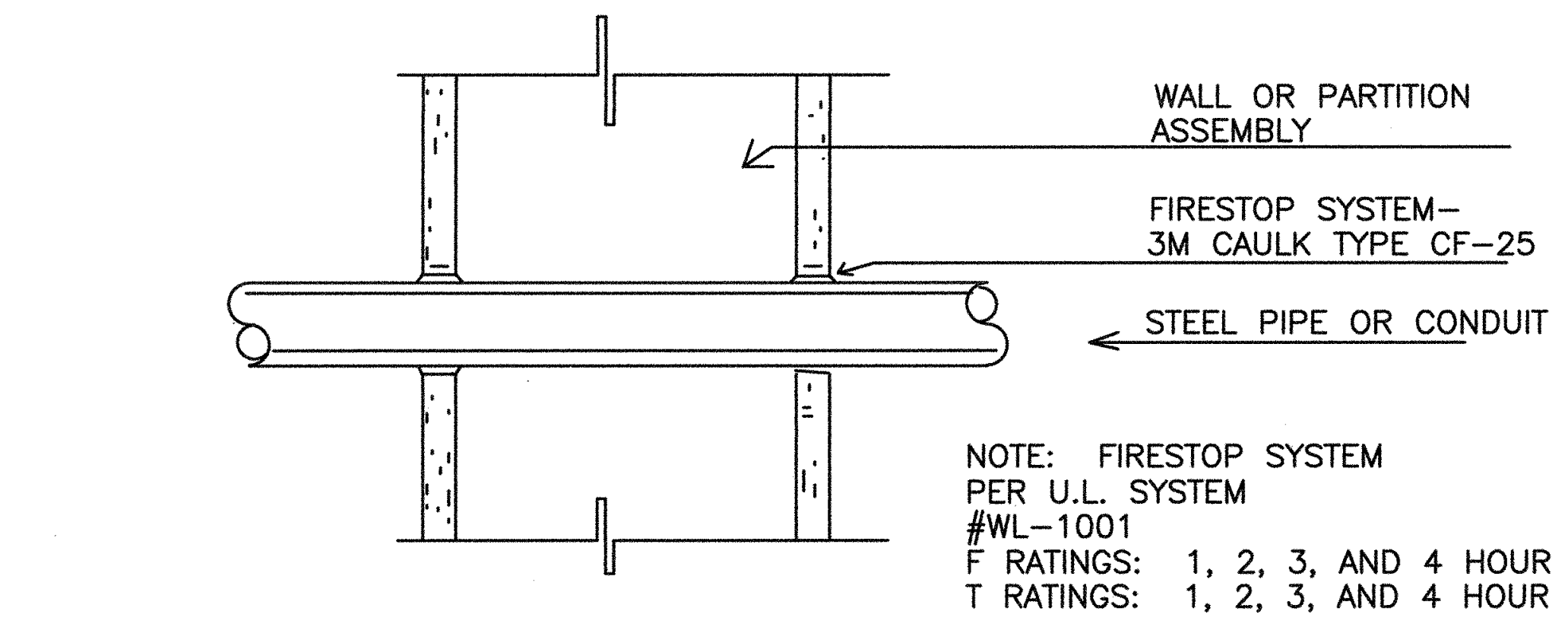
TYPICAL ADDRESSABLE MODULE



TYPICAL STROBE LIGHT



TYPICAL ELEVATIONS
PULLS/HORN/STROBE



NOTE: FIRESTOP SYSTEM
PER U.L. SYSTEM
#WL-1001
F RATINGS: 1, 2, 3, AND 4 HOUR
T RATINGS: 1, 2, 3, AND 4 HOUR

CONDUIT PENETRATION
U.L. SYSTEM #WL-1001

FACP

CONTROL PANEL BATTERY CALCULATION

QTY <N>	QTY <E>	PRODUCT ID	DESCRIPTION	STANDBY EACH	STANDBY TOTAL	ALARM EACH	ALARM TOTAL
1	0	S3	CONTROL PANEL	0.125000	0.125000	0.171000	0.171000
1	0	ILI-MB-E3	ANALOG MODULE	0.055000	0.055000	0.055000	0.055000
67	0	AST-HL2F	HEAT DETECTORS	0.000300	0.020100	0.006500	0.435500
0	0	DNR	DUCT SMOKE DETECTORS	0.000300	0.000000	0.006500	0.000000
113	0	ASD-PL2F	SMOKE DETECTORS	0.000300	0.033900	0.006500	0.734500
1	0	MS-7AF	PULL STATION	0.000300	0.000300	0.010000	0.010000
0	0	AMM-2F	MONITOR MODULE	0.000375	0.000000	0.000600	0.000000
2	0	AOM-2RF	RELAY CONTROL MODULE	0.000375	0.000750	0.000600	0.001200

TOTAL STANDBY CURRENT	0.235050
X 24 HOURS STANDBY	5.641200
TOTAL ALARM CURRENT	1.407200
5 MINUTES OF ALARM (X ..83)	0.116798
TOTAL BATTERY WITH 20% SPARE	6.909597
BATTERY SUPPLIED	17 AH

RPS-2

BATTERY CALCULATION

QTY	PRODUCT ID	DESCRIPTION	STANDBY EACH	STANDBY TOTAL	ALARM EACH	ALARM TOTAL
1	HPF24S8	POWER SUPPLY	0.040000	0.040000	0.050000	0.050000
1	HS-2415	HORN/STROBE 15cd	0.000000	0.000000	0.082000	0.082000
0	HS-2430	HORN/STROBE 30cd	0.000000	0.000000	0.102000	0.000000
2	HS-2475	HORN/STROBE 75cd	0.000000	0.000000	0.148000	0.296000
0	HS-24110	HORN/STROBE 110cd	0.000000	0.000000	0.197000	0.000000
7	ST-2415	STROBE 15cd	0.000000	0.000000	0.057000	0.399000
0	ST-2430	STROBE 30cd	0.000000	0.000000	0.085000	0.000000
0	ST-2475	STROBE 75cd	0.000000	0.000000	0.135000	0.000000
0	ST-24110	STROBE 110cd	0.000000	0.000000	0.182000	0.000000
1	AH-24WP	EXTERIOR HORN	0.000000	0.000000	0.080000	0.080000

TOTAL DEVICE STANDBY CURRENT	0.040000
X 24 HOURS STANDBY	0.960000
TOTAL DEVICE ALARM CURRENT	0.827000
TOTAL ALARM CURRENT	0.827000
5 MINUTES OF ALARM (X .083)	0.068641
TOTAL BATTERY WITH 20% SPARE	1.234369
BATTERY SUPPLIED	7AH

RPS-A

BATTERY CALCULATION

QTY	PRODUCT ID	DESCRIPTION	STANDBY EACH	STANDBY TOTAL	ALARM EACH	ALARM TOTAL
1	HPF24S8	POWER SUPPLY	0.040000	0.040000	0.050000	0.050000
0	HS-2415	HORN/STROBE 15cd	0.000000	0.000000	0.082000	0.000000
0	HS-2430	HORN/STROBE 30cd	0.000000	0.000000	0.102000	0.000000
6	HS-2475	HORN/STROBE 75cd	0.000000	0.000000	0.148000	0.888000
0	HS-24110	HORN/STROBE 110cd	0.000000	0.000000	0.197000	0.000000
2	ST-2415	STROBE 15cd	0.000000	0.000000	0.057000	0.114000
0	ST-2430	STROBE 30cd	0.000000	0.000000	0.085000	0.000000
0	ST-2475	STROBE 75cd	0.000000	0.000000	0.135000	0.000000
0	ST-24110	STROBE 110cd	0.000000	0.000000	0.182000	0.000000
2	AH-24WP	EXTERIOR HORN	0.000000	0.000000	0.080000	0.160000

TOTAL DEVICE STANDBY CURRENT	0.040000
X 24 HOURS STANDBY	0.960000
TOTAL DEVICE ALARM CURRENT	1.052000
TOTAL ALARM CURRENT	1.052000
5 MINUTES OF ALARM (X .083)	0.087316
TOTAL BATTERY WITH 20% SPARE	1.256779
BATTERY SUPPLIED	7AH

RPS-B

BATTERY CALCULATION

QTY	PRODUCT ID	DESCRIPTION	STANDBY EACH	STANDBY TOTAL	ALARM EACH	ALARM TOTAL
1	HPF24S8	POWER SUPPLY	0.040000	0.040000	0.050000	0.050000
0	HS-2415	HORN/STROBE 15cd	0.000000	0.000000	0.082000	0.000000
0	HS-2430	HORN/STROBE 30cd	0.000000	0.000000	0.102000	0.000000
5	HS-2475	HORN/STROBE 75cd	0.000000	0.000000	0.148000	0.740000
0	HS-24110	HORN/STROBE 110cd	0.000000	0.000000	0.197000	0.000000
2	ST-2415	STROBE 15cd	0.000000	0.000000	0.057000	0.114000
0	ST-2430	STROBE 30cd	0.000000	0.000000	0.085000	0.000000
0	ST-2475	STROBE 75cd	0.000000	0.000000	0.135000	0.000000
0	ST-24110	STROBE 110cd	0.000000	0.000000	0.182000	0.000000
2	AH-24WP	EXTERIOR HORN	0.000000	0.000000	0.080000	0.160000

TOTAL DEVICE STANDBY CURRENT	0.040000
X 24 HOURS STANDBY	0.960000
TOTAL DEVICE ALARM CURRENT	0.904000
TOTAL ALARM CURRENT	0.904000
5 MINUTES OF ALARM (X .083)	0.075032
TOTAL BATTERY WITH 20% SPARE	1.242038
BATTERY SUPPLIED	7AH

RPS-C

BATTERY CALCULATION

QTY	PRODUCT ID	DESCRIPTION	STANDBY EACH	STANDBY TOTAL	ALARM EACH	ALARM TOTAL
1	HPF24S8	POWER SUPPLY	0.040000	0.040000	0.050000	0.050000
0	HS-2415	HORN/STROBE 15cd	0.000000	0.000000	0.082000	0.000000
0	HS-2430	HORN/STROBE 30cd	0.000000	0.000000	0.102000	0.000000
5	HS-2475	HORN/STROBE 75cd	0.000000	0.000000	0.148000	0.740000
0	HS-24110	HORN/STROBE 110cd	0.000000	0.000000	0.197000	0.000000
0	ST-2415	STROBE 15cd	0.000000	0.000000	0.057000	0.000000
0	ST-2430	STROBE 30cd	0.000000	0.000000	0.085000	0.000000
0	ST-2475	STROBE 75cd	0.000000	0.000000	0.135000	0.000000
0	ST-24110	STROBE 110cd	0.000000	0.000000	0.182000	0.000000
2	AH-24WP	EXTERIOR HORN	0.000000	0.000000	0.080000	0.160000

TOTAL DEVICE STANDBY CURRENT	0.040000
X 24 HOURS STANDBY	0.960000
TOTAL DEVICE ALARM CURRENT	0.790000
TOTAL ALARM CURRENT	0.790000
5 MINUTES OF ALARM (X .083)	0.065570
TOTAL BATTERY WITH 20% SPARE	1.230684
BATTERY SUPPLIED	7AH

RPS-D

BATTERY CALCULATION

QTY	PRODUCT ID	DESCRIPTION	STANDBY EACH	STANDBY TOTAL	ALARM EACH	ALARM TOTAL
1	HPF24S8	POWER SUPPLY	0.040000	0.040000	0.050000	0.050000
0	HS-2415	HORN/STROBE 15cd	0.000000	0.000000	0.082000	0.000000
0	HS-2430	HORN/STROBE 30cd	0.000000	0.000000	0.102000	0.000000
5	HS-2475	HORN/STROBE 75cd	0.000000	0.000000	0.148000	0.740000
0	HS-24110	HORN/STROBE 110cd	0.000000	0.000000	0.197000	0.000000
2	ST-2415	STROBE 15cd	0.000000	0.000000	0.057000	0.114000
0	ST-2430	STROBE 30cd	0.000000	0.000000	0.085000	0.000000
0	ST-2475	STROBE 75cd	0.000000	0.000000	0.135000	0.000000
0	ST-24110	STROBE 110cd	0.000000	0.000000	0.182000	0.000000
2	AH-24WP	EXTERIOR HORN	0.000000	0.000000	0.080000	0.160000

TOTAL DEVICE STANDBY CURRENT	0.040000
X 24 HOURS STANDBY	0.960000
TOTAL DEVICE ALARM CURRENT	0.904000
TOTAL ALARM CURRENT	0.904000
5 MINUTES OF ALARM (X .083)	0.075032
TOTAL BATTERY WITH 20% SPARE	1.242038
BATTERY SUPPLIED	7AH

VOLTAGE DROP (VD) CALCULATION
PROJ. NAME------- RUSSO-McENTEE ACADEMY - HVAC UPGRADES
SIG CKT #-------- S2

DEVICE #	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	51	47	31	26	29	43	82	37	22	75
AMPS @ DEVICE	0.082	0.057	0.057	0.057	0.057	0.148	0.08	0.057	0.057	0.057
AMPS DEVELOPE	0.857	0.775	0.718	0.661	0.604	0.547	0.399	0.319	0.262	0.205
VOLT. DROP	0.13898826	0.1158315	0.07078044	0.05465148	0.05570088	0.0747968	0.1040432	0.03753354	0.0183295	0.0488925

** FORMULA **
I X FEET X OHMS/ /FT

SIGNAL CIRCUIT = S2
TOTAL CKT V.D.= 0.75484614
CKT VOLTAGE= 20.4
VOLTAGE AT
FINAL DEVICE= 19.64515386

% VOLTAGE DR 3.70022618

WIRE SIZE	RESIS. /M FT.	CIRC. MILS.
10	1.21	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020
22	16.2	640
24	25.7	404

VOLTAGE DROP (VD) CALCULATION
PROJ. NAME------- RUSSO-McENTEE ACADEMY - HVAC UPGRADES
SIG CKT #-------- S2

DEVICE #	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	51	47	31	26	29	43	82	37	22	75	75
AMPS @ DEVICE	0.082	0.057	0.057	0.057	0.057	0.148	0.08	0.057	0.057	0.057	0.148
AMPS DEVELOPE	0.857	0.775	0.718	0.661	0.604	0.547	0.399	0.319	0.262	0.205	0.148
VOLT. DROP	0.13898826	0.1158315	0.07078044	0.05465148	0.05570088	0.0747968	0.1040432	0.03753354	0.0183295	0.0488925	0.035298

** FORMULA **
I X FEET X OHMS/ /FT

SIGNAL CIRCUIT = S2
TOTAL CKT V.D.= 0.75484614
CKT VOLTAGE= 20.4
VOLTAGE AT
FINAL DEVICE= 19.64515386

% VOLTAGE DR 3.70022618

WIRE SIZE	RESIS. /M FT.	CIRC. MILS.
10	1.21	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020
22	16.2	640
24	25.7	404

VOLTAGE DROP (VD) CALCULATION
PROJ. NAME------- RUSSO-McENTEE ACADEMY - HVAC UPGRADES
SIG CKT #-------- SB

DEVICE #	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	38	54	66	56	37	73	57	72	50	0
AMPS @ DEVICE	0.057	0.057	0.148	0.148	0.08	0.148	0.148	0.08	0.148	0
AMPS DEVELOPE	1.014	0.957	0.9	0.752	0.604	0.524	0.376	0.228	0.148	0
VOLT. DROP	0.12253176	0.16433604	0.188892	0.13391616	0.07106664	0.121641	0.0681538	0.0522029	0.023532	0

** FORMULA **
I X FEET X OHMS/ /FT

SIGNAL CIRCUIT = SB
TOTAL CKT V.D.= 0.9462726
CKT VOLTAGE= 20.4
VOLTAGE AT
FINAL DEVICE= 19.4537274

% VOLTAGE DR 4.63859118

WIRE SIZE	RESIS. /M FT.	CIRC. MILS.
10	1.21	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020
22	16.2	640
24	25.7	404

VOLTAGE DROP (VD) CALCULATION
PROJ. NAME------- RUSSO-McENTEE ACADEMY - HVAC UPGRADES
SIG CKT #-------- SC

DEVICE #	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	45	57	36	73	57	72	50	0	22	0
AMPS @ DEVICE	0.148	0.148	0.08	0.148	0.148	0.08	0.148	0	0	0
AMPS DEVELOPE	0.9	0.752	0.604	0.524	0.376	0.228	0.148	0	0	0
VOLT. DROP	0.12879	0.13630752	0.06914592	0.12164136	0.06815376	0.052203	0.023532	0	0	0

** FORMULA **
I X FEET X OHMS/ /FT

SIGNAL CIRCUIT = SC
TOTAL CKT V.D.= 0.59977344
CKT VOLTAGE= 20.4
VOLTAGE AT
FINAL DEVICE= 19.80022656

% VOLTAGE DR 2.94006588

WIRE SIZE	RESIS. /M FT.	CIRC. MILS.
10	1.21	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020
22	16.2	640
24	25.7	404

VOLTAGE DROP (VD) CALCULATION
PROJ. NAME------- RUSSO-McENTEE ACADEMY - HVAC UPGRADES
SIG CKT #-------- SD

DEVICE #	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	30	40	35	57	36	73	57	72	49	0
AMPS @ DEVICE	0.057	0.057	0.148	0.148	0.08	0.148	0.148	0.08	0.148	0
AMPS DEVELOPE	1.014	0.957	0.9	0.752	0.604	0.524	0.376	0.228	0.148	0
VOLT. DROP	0.0967356	0.1217304	0.10017	0.13630752	0.06914592	0.121641	0.0681538	0.0522029	0.0230614	0

** FORMULA **
I X FEET X OHMS/ /FT

SIGNAL CIRCUIT = SD
TOTAL CKT V.D.= 0.7891488
CKT VOLTAGE= 20.4
VOLTAGE AT
FINAL DEVICE= 19.6108512

% VOLTAGE DR 3.86837647

WIRE SIZE	RESIS. /M FT.	CIRC. MILS.
10	1.21	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020
22	16.2	640
24	25.7	404

SFA
SUGIMURA
FINNEY
ARCHITECTS
ARCHITECTURE INTERIORS PLANNING

2155 SOUTH BASCOM AVE.
SUITE 200
CAMPBELL, CA 95008
PHONE: 408-879-0600
FAX: 408-377-6066

MARK C. FINNEY
NO. C-24673
REN. 9-30-19

E16525
Exp. 12-31-19

Date Signed 05/22/2018

ALFATECH

1321 RIDDER PARK DRIVE, SUITE 50 408-487-1200
SAN JOSE, CALIFORNIA 95131 FAX: 408-487-1422
SAN JOSE • SAN FRANCISCO • THAILAND • SINGAPORE
SYDNEY • MELBOURNE • DUBLIN • CORK • LONDON • DUBAI
PROJECT # 217279

FIRE ALARM NOTES AND DETAILS

RUSSO-McENTEE ACADEMY - HVAC UPGRADES
2851 GAY AVE., SAN JOSE, CA 95127
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE
	DD SUBMITTAL	12-8-17
	DSA SUBMITTAL	01-31-18
	BID SET	04-06-18
	DSA BACKCHECK	05-22-18

DSA FILE NUMBER 43-04

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL 01-117267
AC ____ FLS ____ SS ____
DATE MAY 22 2018

DRAWN BY: AT
CHECKED BY: AT
JOB NO: 17116
DATE: 05/22/18

E7.1

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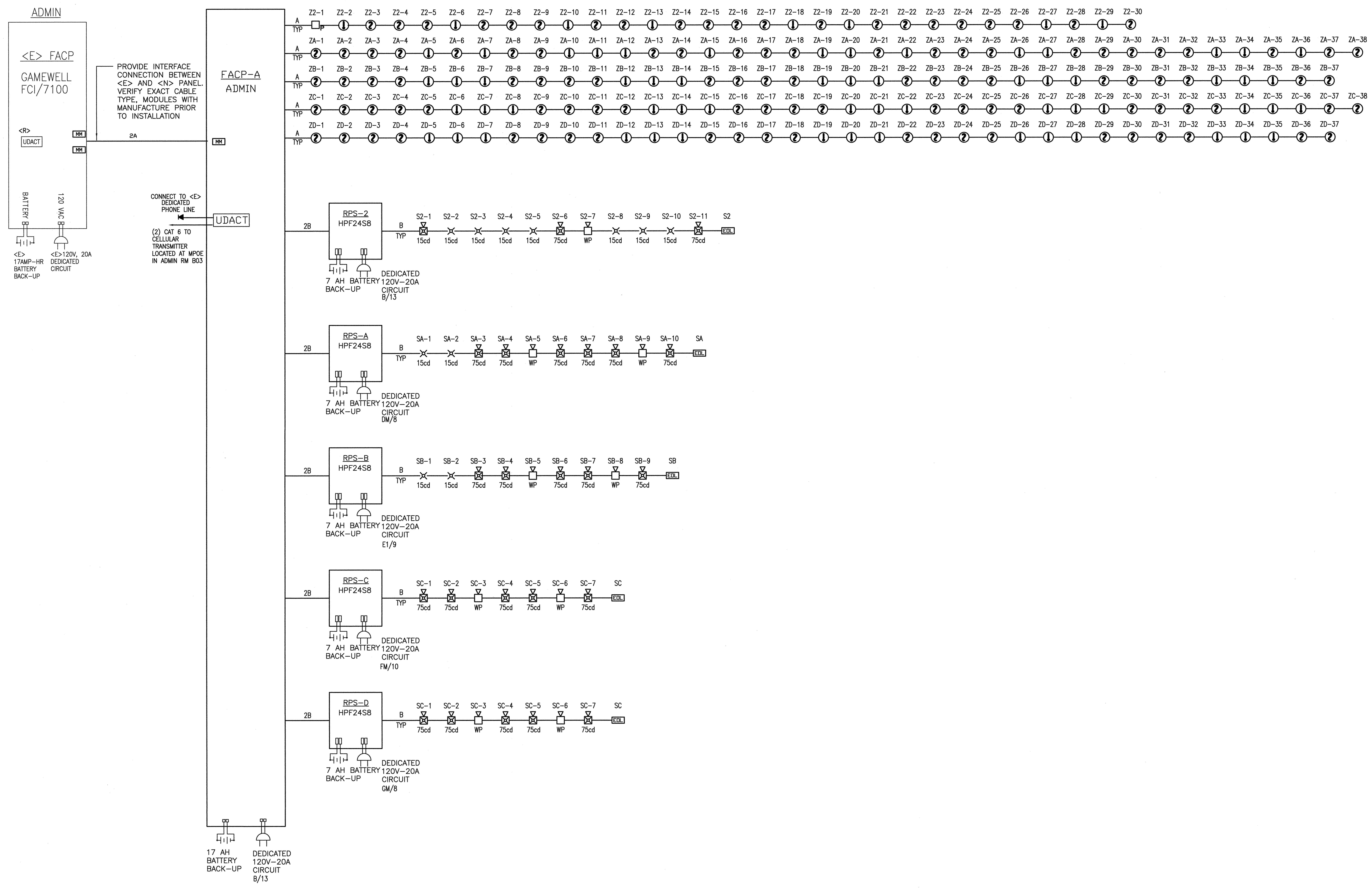
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GAMEWELL FCI/7100
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MM
MM
2A
BATTERY
120 VAC
<E> 17AMP-HR BATTERY BACK-UP
<E>120V, 20A DEDICATED CIRCUIT
FACP-A
ADMIN
MM
UDACT
A TYP
Z2-1 Z2-2 Z2-3 Z2-4 Z2-5 Z2-6 Z2-7 Z2-8 Z2-9 Z2-10 Z2-11 Z2-12 Z2-13 Z2-14 Z2-15 Z2-16 Z2-17 Z2-18 Z2-19 Z2-20 Z2-21 Z2-22 Z2-23 Z2-24 Z2-25 Z2-26 Z2-27 Z2-28 Z2-29 Z2-30
P
ZA-1 ZA-2 ZA-3 ZA-4 ZA-5 ZA-6 ZA-7 ZA-8 ZA-9 ZA-10 ZA-11 ZA-12 ZA-13 ZA-14 ZA-15 ZA-16 ZA-17 ZA-18 ZA-19 ZA-20 ZA-21 ZA-22 ZA-23 ZA-24 ZA-25 ZA-26 ZA-27 ZA-28 ZA-29 ZA-30 ZA-31 ZA-32 ZA-33 ZA-34 ZA-35 ZA-36 ZA-37 ZA-38
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ZD-1 ZD-2 ZD-3 ZD-4 ZD-5 ZD-6 ZD-7 ZD-8 ZD-9 ZD-10 ZD-11 ZD-12 ZD-13 ZD-14 ZD-15 ZD-16 ZD-17 ZD-18 ZD-19 ZD-20 ZD-21 ZD-22 ZD-23 ZD-24 ZD-25 ZD-26 ZD-27 ZD-28 ZD-29 ZD-30 ZD-31 ZD-32 ZD-33 ZD-34 ZD-35 ZD-36 ZD-37
2B
RPS-2 HPF24S8
B TYP
S2-1 15cd, S2-2 15cd, S2-3 15cd, S2-4 15cd, S2-5 15cd, S2-6 75cd, S2-7 WP, S2-8 15cd, S2-9 15cd, S2-10 15cd, S2-11 75cd, S2 EOL
7 AH BATTERY BACK-UP
DEDICATED 120V-20A CIRCUIT B/13
2B
RPS-A HPF24S8
B TYP
SA-1 15cd, SA-2 15cd, SA-3 75cd, SA-4 75cd, SA-5 WP, SA-6 75cd, SA-7 75cd, SA-8 75cd, SA-9 WP, SA-10 75cd, SA EOL
7 AH BATTERY BACK-UP
DEDICATED 120V-20A CIRCUIT DM/8
2B
RPS-B HPF24S8
B TYP
SB-1 15cd, SB-2 15cd, SB-3 75cd, SB-4 75cd, SB-5 WP, SB-6 75cd, SB-7 75cd, SB-8 WP, SB-9 75cd, SB EOL
7 AH BATTERY BACK-UP
DEDICATED 120V-20A CIRCUIT E1/9
2B
RPS-C HPF24S8
B TYP
SC-1 75cd, SC-2 75cd, SC-3 WP, SC-4 75cd, SC-5 75cd, SC-6 WP, SC-7 75cd, SC EOL
7 AH BATTERY BACK-UP
DEDICATED 120V-20A CIRCUIT FM/10
2B
RPS-D HPF24S8
B TYP
SC-1 75cd, SC-2 75cd, SC-3 WP, SC-4 75cd, SC-5 75cd, SC-6 WP, SC-7 75cd, SC EOL
7 AH BATTERY BACK-UP
DEDICATED 120V-20A CIRCUIT GM/8
17 AH BATTERY BACK-UP
DEDICATED 120V-20A CIRCUIT B/13

PROVIDE INTERFACE CONNECTION BETWEEN <E> AND <N> PANEL. VERIFY EXACT CABLE TYPE, MODULES WITH MANUFACTURE PRIOR TO INSTALLATION

CONNECT TO <E> DEDICATED PHONE LINE

(2) CAT 6 TO CELLULAR TRANSMITTER LOCATED AT MPOE IN ADMIN RM B03

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MARK C. FINNEY
NO. C-24673
REN. 9-30-17

S. MARK FISHER
E16525
Exp. 12-31-19

Date Signed 05/22/2018

ALFATECH
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SAN JOSE SAN FRANCISCO • THAILAND SINGAPORE
SYDNEY MELBOURNE • DUBLIN • CORK LONDON DUBAI
PROJECT # 217279

FIRE ALARM RISER DIAGRAM

RUSSO-McENTEE ACADEMY- HVAC UPGRADES
2851 GAY AVE., SAN JOSE, CA 95127
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

REVISIONS

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APPL 01-117267
AC KQ FLS MB SS
DATE MAY 22 2018

DRAWN BY: AT
CHECKED BY: AT
JOB NO: 17116
DATE: 05/22/18

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