IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121814 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/11/2023

PBK

WESTMINSTER SCHOOL DISTRICT

FINLEY ES HVAC UPGRADE & MODERNIZATION

DSA SUBMITTAL

05-16-2023

FINLEY ES HVAC UPGRADE
& MODERNIZATION
13521 Edwards St.,
Westminster, CA 92683
DSA SUBMITTAL

Other

Architect

LICENSED ARCHITECT
Tong Yao
No. C-31162
REN. 10-31-2023
STATE OF CALIFORNIA

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G1 - SHEET INDEX, DRAWING CONVENTIONS, AND LOCATION MAP

0" 1"

ABBREVIATIONS

A	A.D.	AREA DRAIN
A	A.D.A.	AMERICANS WITH DISABILITIES ACT
A	A.D.A.	2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
A	A.D.A.A.G.	AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES
A	A.F.F.	ABOVE FINISH FLOOR
A	A.F.G.	ABOVE FINISH GRADE
A	A.H.J.	ATHORITY HAVING JURISDICTION
A	A/C	AIR CONDITIONING
A	ACC.	ACCESSIBLE, ACCESSIBILITY
A	ACP.	ACOUSTICAL PANEL
A	ACT.	ACOUSTICAL TILE
A	ADJ.	ABADJUSTABLE
A	ALT.	ALTERNATE
A	ALUM.	ALUMINUM
A	ASPH.	ASPHALT
A	∠	ANGLE
B	B.O.D.	BOTTOM OF DECK
B	B.U.R.	BUILT-UP ROOF
B	BD.	BOARD
B	BLDG.	BUILDING
B	BLK.	BLOCK
B	BM.	BEAM
C	C	CHANNEL
C	C.J.	CONTROL JOINT
C	C.M.U.	CONCRETE MASONRY UNIT
C	C.W.	COLD WATER
C	CAB, CABT	CABINET
C	CFMF	COLD-FORMED METAL FRAMING
C	CFSF	COLD-FORMED STEEL FRAMING
C	CL	CENTERLINE
C	CLG.	CEILING
C	CLR	CLEAR
C	COL.	COLUMN
C	COMP.	COMPRESSIBLE
C	CONC.	CONCRETE
C	COND.	CONDITION
C	CONT.	CONTINUOUS
C	CORR.	CORRIDOR
C	CPT.	CARPET (ED)
C	CT.	CERAMIC TILE
C	CTSK.	COUNTER SINK
D	D	DRYER
D	D.F.	DRINKING FOUNTAIN
D	D.P.	DAMPPROOFING
D	D.S.	DOWN SPOUT
D	DIA.	DIAMETER
D	DIM.	DIMENSION
D	DN	DOWN
D	DTL.	DETAIL
D	DWG.	DRAWING
E	E.J.	EXPANSION JOINT
E	E.Q.	EQUAL
E	EA.	EACH
E	EDF	ELECTRIC DRINKING FOUNTAIN
E	EL.	ELEVATION (HEIGHT)
E	ELEC.	ELECTRICAL
E	ELECT.	ELECTRICAL
E	ELEV	ELEVATION (DRAWING)
E	EQUIP	EQUIPMENT
E	EXIST	EXISTING
E	EXP	EXPANSION
E	EXT	EXTERIOR
F	F.E.	FIRE EXTINGUISHER
F	F.E.C.	FIRE EXTINGUISHER CABINET
F	F.H.C.	FIRE HOSE CABINET
F	FB.	FACE BRICK
F	FD.	FLOOR DRAIN
F	FIN.	FINISH (ED)
F	FIXT.	FIXTURE
F	FLR.	FLOOR (ING)
F	FLSHG.	FLASHING
F	FLUOR	FLUORESCENT
F	FRP	FIBER REINFORCED PLASTIC
G	G.B.	GRAB BAR
G	G.I.	GALVANIZED IRON
G	GA.	GAUGE
G	GALV.	GALVANIZED
G	GCMU	GLAZED CONCRETE MASONRY UNIT
G	GEN.	GENERAL
G	GEN.	GENERAL
G	GL.	GLASS / GLAZING
G	GL.	GLASS
G	GR.	GRADE
G	GTP.	GLAZED TILE PAVER
G	GYP.	GYPSUM DRYWALL
H	H.W.	HOT WATER
H	HM	HOLLOW METAL FRAME
H	HORIZ.	HORIZONTAL
H	HT.	HEIGHT
I	I.D.	INSIDE DIAMETER
I	I.P.S.	IRON PIPE SIZE
I	INSUL	INSULATE (ED), (ION)
I	INT.	INTERIOR
J	JT.	JOINT
L	L.P.	LIGHT POLE
L	LAM.	LAMINATE (D)
L	LAV.	LAVATORY
L	LT.	LIGHT
L	LT. WT.	LIGHTWEIGHT
M	M.O.	MASONRY OPENING
M	MAS.	MASONRY
M	MATL.	MATERIAL (S)
M	MAX.	MAXIMUM
M	MB.	MARKER BOARD
M	MECH.	MECHANICAL
M	MEM	MEMBRANE
M	MEM. WP.	MEMBRANE WATERPROOFING
M	MEP	MECHANICAL, ELECTRICAL, PLUMBING
M	MEPT	MECHANICAL, ELECTRICAL, PLUMBING, TECHNOLOGY
M	MEZZ.	MEZZANINE
M	MFR. / MANUF.	MANUFACTURE (R)
M	MH.	MANHOLE
M	MIN.	MINIMUM
M	MISC.	MISCELLANEOUS
M	MOD	MODULAR
M	MTL	METAL
M	MTP.	METAL TOILET PARTITION
N	N.D.	NAPKIN DISPOSAL
N	N.I.C.	NOT IN CONTRACT
N	N.T.S.	NOT TO SCALE
N	N.V.	NAPKIN VENDOR
N	NO.	NUMBER
N	NOM.	NOMINAL
O	O.C.	ON CENTER (S)
O	O.C.E.W.	ON CENTER EACH WAY
O	O.D.	OUTSIDE DIAMETER
O	O.F.C.I.	OWNER FURNISHED, CONTRACTOR INSTALLED
O	O.H.	OPPOSITE HAND
O	OPNG.	OPENING
O	OPP.	OPPOSITE
P	P. LAM. / PLAM	PLASTIC LAMINATE
P	P.C.	PRECAST
P	P.H.	PAPER HOLDER
P	P.L.	PROPERTY LINE
P	P.P.	POWER POLE
P	P.W.B.	PREFINISHED WALL BOARD
P	PL.	PLATE
P	PLUMB.	PLUMBING
P	PLYWD.	PLYWOOD
P	POL.	POLISHED
P	PR.	PAIR
P	PREFIN.	PRE-FINISHED
P	PT	PRESSURE-TREATED
P	PT.	POINT
P	PTD.	PAINTED
Q	Q.T.	QUARRY TILE
R	R / RAD	RADIUS
R	RCP	REFLECTED CEILING PLAN
R	RD	ROOF DRAIN
R	RE. , REF.	REFER TO / REFERENCE / SEE
R	RECP.	RECEPTACLE
R	REINF.	REINFORCE (D), (ING)
R	REQ'D.	REQUIRED
R	RES.	RESILIENT
R	REV.	REVISION (S), REVISED
R	RF	RECREATIONAL RESILIENT FLOORING
R	RPG.	RELOCATABLE PAINTED GYPSUM BOARD
R	RSS.	ROD STOCK AND SEALANT
S	S.C.	SEALED CONCRETE
S	S.D.	SOAP DISPENSER
S	S.N.D.	SANITARY NAPKIN DISPOSAL
S	SCHED	SCHEDULE
S	SCPL	SOLID CORE PLASTIC LAMINATE
S	SECT	SECTION
S	SHT	SHEET
S	SIM	SIMILAR
S	SPC	SPECIAL COATING SYSTEM
S	SPEC	SPECIFICATION (S)
S	SQ.	SQUARE
S	SS / SS. STL.	STAINLESS STEEL
S	STL	STEEL
S	STRUC / STRUCT	STRUCTURAL
S	SUSP	SUSPENDED
S	SVDF	SHEET VINYL DANCE FLOORING
S	SVF	SHEET VINYL FLOORING
T	T.A.S.	TEXAS ACCESSIBLITY STANDARDS (2012)
T	T.B.	TACK BOARD
T	T.D.R.	TOWEL DISPENSER AND RECEPTACL
T	T.O.	TOP OF
T	T.O.B.	TOP OF (WOOD) BLOCKING
T	T.O.M.	TOP OF MASONRY
T	T.O.P.	TOP OF PARAPET
T	T.O.S.	TOP OF STEEL
T	T.T.D.	TOILET TISSUE DISPENSER
T	TEL	TELEPHONE
T	TERR	TERRAZZO
T	THK	THICK (NESS)
T	TYP	TYPICAL
U	U.N.O.	UNLESS NOTED OTHERWISE
U	UR.	URINAL
V	V	VENT
V	V.C.T.	VINYL COMPOSITION TILE
V	V.I.F.	VERIFY IN FIELD
V	VENT.	VENTILATING, VENTILATED
V	VER.	VERIFY
V	VERT.	VERTICAL
V	VGB	(PREFINISHED) VINYL CLAD GYPSUM BOARD
V	VWC	VINYL WALL COVERING
W	W	WASHING MACHINE
W	W.P.	WATER PROOFING
W	W.S.	WEATHERSTRIP
W	W.W.	WATER WELL
W	W.W.F.	WELDED WIRE FABRIC
W	W.W.M.	WOVEN WIRE MESH
W	W/	WITH
W	WC	WATER CLOSET
W	WD	WOOD
W	WDW	WINDOW
W	WT	WEIGHT

STATEMENT OF GENERAL CONFORMANCE

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 CONSULTANTS

(Application No. O4-121814 **File No.** 30-43 **)**

[X] The drawings or sheets listed on the cover or index sheet (see asterisk *)
[ ] 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: [X] The drawings or sheets listed on the cover or index sheet
[ ] This drawing or page

[X] is/are in general conformance with the project design intent, and	[ ] is/are in general conformance with the project design intent, and
[X] has/have been coordinated with the project plans and specifications.	[ ] have been coordinated with the project plans and specifications.
Signature **Date**	**Signature** **Date**
Architect or Engineer designated to be in general responsible charge	**Architect or Engineer deligated responsibility for this portion of the work**
YONG YOO	
Print Name	**Print Name**
C-31162 10/31/2023	
License Number **Expiration Date**	**License Number** **Expiration Date**

GENERAL NOTES

1. CONSTRUCTION DOCUMENTS DESCRIBE THE PRODUCTS, SYSTEMS, QUANTITIES, CONFIGURATION AND PERFORMANCE SPECIFICATIONS THAT DELIVER THE OVERALL DESIGN INTENT OF THE PROJECT.
2. THE CONSTRUCTION DOCUMENT DRAWINGS AND SPECIFICATIONS ARE COMPLIMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY BOTH.
3. PERFORMANCE BY THE CONSTRUCTION TEAM SHALL BE CONSISTENT WITH THE CONSTRUCTION DRAWINGS AND SPECIFICATIONS AS NECESSARY TO DELIVER THE INDICATED RESULTS OF THE DESIGN INTENT.
4. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH ALL GOVERNING CODES, ORDINANCES, REGULATIONS AND LAWS.
5. THE DESIGN ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS AND SCAFFOLDING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
6. WHERE ANY CONFLICT OCCURS BETWEEN THE REQUIREMENTS OF LAWS, CODES, ORDINANCES, RULES AND REGULATIONS, THE MOST STRINGENT SHALL GOVERN.
7. ENACT ALL MEASURES TO PROTECT AND SAFEGUARD ALL EXISTING ELEMENTS TO REMAIN FROM BEING DAMAGED. REPLACE OR REPAIR EXISTING ELEMENTS DAMAGED BY THE EXECUTION OF THIS CONTRACT TO EQUAL OR BETTER CONDITION.
8. CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE EXISTING OR NEW STRUCTURAL ELEMENTS SHALL NOT BE STARTED UNTIL THE DETAILS HAVE BEEN REVIEWED AND APPROVED BY THE ARCHITECT, AND STRUCTURAL ENGINEER OF RECORD.
9. VERIFY DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. REPORT DISCREPANCIES TO THE ARCHITECT PRIOR TO PROCEEDING WITH AFFECTED WORK.
10. REFLECTED CEILING PLAN DIMENSIONS ARE REFERENCED FROM FINISHED SURFACES UNLESS NOTED OTHERWISE. CEILING HEIGHTS ARE DIMENSIONED FROM FLOOR TO FINISHED CEILING HEIGHT.
11. DIMENSIONS NOTED AS "FIELD VERIFY" SHALL BE CHECKED AT THE SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCHITECT BEFORE INCORPORATING INTO THE WORK.
12. DO NOT SCALE DRAWING. WRITTEN DIMENSIONS TAKE PRECEDENCE. IF CLARIFICATION IS REQUIRED IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS, CONTACT THE ARCHITECT.
13. NOTES OR DIMENSIONS LABELED "TYPICAL" SHALL APPLY TO SITUATIONS THAT ARE THE SAME OR SIMILAR.
14. ALL DIMENSIONS ARE TO FACE OF STUD, UNLESS NOTED OTHERWISE.
15. ALL SPACES WITH FLOOR DRAINS TO HAVE FINISHED FLOORS SLOPED TO DRAIN NOT TO EXCEED ONE IN FIFTY.
16. ALL FLOORS FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS UNLESS NOTED OTHERWISE. ALL FLOOR FINISH CHANGES SHALL HAVE THRESHOLDS OR REDUCER STRIPS.
17. COORDINATE HOUSEKEEPING PAD DIMENSIONS AND LOCATIONS WITH EQUIPMENT TO BE INSTALLED.
18. ALL DOORS IN INTERIOR GYP. BD STUD WALLS SHALL BE SET 4" OFF THE PERP. ADJ. WALL ON THE HINGE SIDE OF THE DOOR UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL CONTACT THE ARCHITECT IF ANY CONFLICTS OCCUR.
19. ALUM. THRESHOLDS TO BE SET IN FULL BED OF SEALANT AT ALL EXT. DOORS.
20. UNLESS OTHERWISE NOTED, ALL ELECTRICAL AND MECHANICAL OPERABLE DEVICES SHALL BE MOUNTED WITH THE HIGHEST OPERABLE CONTROL AT MAX. OF 42" AFF.
21. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE DSA APPROVED DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CONSTRUCTION CHANGE DOCUMENT, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK, PER CAC, 2013, 4-317(c)

DRAWING INDEX

GENERAL

G0	COVER SHEET
G1	SHEET INDEX, DRAWING CONVENTIONS, AND LOCATION MAP
G2	ACCESSIBILITY SITE PLAN
G2.1	ENLARGED SITE PLANS
G3	FIRE ACCESS SITE PLAN
G4	SITE DETAILS
G5	SITE DETAILS

CIVIL *

C1.00	DEMOLITION PLAN
C2.00	GRADING PLAN
C3.00	DETAIL SHEET

DEMOLITION

D0.1	SITE DEMOLITION PLAN
D0.2	SITE DEMOLITION PLAN
D1.1	DEMO FLOOR PLAN BLDG CK, C1,C2,C6 & ADMIN
D1.2	DEMO FLOOR PLAN BLDG C3, C4, & C5
D2.1	DEMO RCP BLDG CK,C1,C2,C6 ,C3 & ADMIN
D2.2	DEMO RCP BLDG C4 & C5

ARCHITECTURAL

A1.01	FLOOR PLANS BLDG CK, C1,C2,C6 & ADMIN
A1.02	FLOOR PLANS BLDG C3,C4 & C5
A2.01	REFLECTED CEILING PLANS BLDG CK, C1, C2, C6, C3 & ADMIN
A2.02	REFLECTED CEILING PLANS BLDG C4 & C5
A3.01	OVERALL ROOF PLAN & DETAILS
A3.02	ENLARGED ROOF PLAN
A3.03	ROOF DETAILS - MOD. BIT.
A4.01	BUILDING SECTIONS
A4.02	BUILDING SECTIONS
A5.01	ENLARGED RESTROOM PLANS & INTERIOR ELEVATIONS
A6.01	EXTERIOR ELEVATIONS
A6.02	EXTERIOR ELEVATIONS
A6.03	EXTERIOR ELEVATIONS
A7.01	INTERIOR ELEVATIONS
A8.01	DOORS, WINDOW FRAME DETAILS
A8.02	PARTITION TYPES AND MISC. DETAILS
A8.03	CEILING & MISC DETAILS
A9.01	DOORS SCHEDULE & WINDOWS FRAMING ELEVATION
A10.01	FINISH PLANS & SCHEDULE

STRUCTURAL *

SN1	GENERAL NOTES
S1	ROOF PLANS - BLDG C1, C2 & CK
S2	ROOF PLANS - BLDG C3, C4 & C5
S3	ROOF PLANS - BLDG C6, ADMIN
SD1	CONCRETE DETAILS
SD2	RTU DETAILS
SD3	HUNG UNITS DETAILS

MECHANICAL *

M0.00	MECHANICAL SYMBOLS, LEGENDS & GENERAL NOTES
M0.01	MECHANICAL TITLE 24
M0.02	MECHANICAL TITLE 24
M0.03	MECHANICAL TITLE 24
M1.01	MECHANICAL SITE PLAN
MD2.01	MECHANICAL DEMOLITION FLOOR PLANS
MD2.02	MECHANICAL DEMOLITION FLOOR PLANS
M2.01	MECHANICAL FLOOR PLANS
M2.02	MECHANICAL FLOOR PLANS
M4.01	MECHANICAL ROOF PLANS
M4.02	MECHANICAL ROOF PLANS
M5.01	MECHANICAL SCHEDULES
M6.01	MECHANICAL DETAILS
M6.02	MECHANICAL DETAILS
M7.01	MECHANICAL CONTROLS

ELECTRICAL *

E0.00	ELECTRICAL SYMBOLS, LEGENDS & GENERAL NOTES
E0.01	ELECTRICAL TITLE 24
E1.01	ELECTRICAL SITE PLAN
E2.01	ELECTRICAL POWER PLANS
E2.02	ELECTRICAL POWER PLANS
E3.01	ELECTRICAL LIGHTING PLAN
E3.02	ELECTRICAL LIGHTING PLAN
E4.01	ELECTRICAL ROOF PLANS
E4.02	ELECTRICAL ROOF PLANS
E5.01	ELECTRICAL SINGLE LINE DIAGRAMS & SCHEDULES
E5.02	ELECTRICAL SCHEDULES
E5.03	ELECTRICAL SCHEDULES
E6.01	ELECTRICAL DETAILS

PLUMBING *

P0.00	PLUMBING SYMBOLS, LEGENDS & GENERAL NOTES
P1.01	PLUMBING SITE PLAN
PD2.01	PLUMBING DEMOLITION FLOOR PLANS
PD2.02	PLUMBING DEMOLITION FLOOR PLANS
P2.01	PLUMBING FLOOR PLANS
P2.02	PLUMBING FLOOR PLANS
P4.01	PLUMBING ROOF PLANS
P4.02	PLUMBING ROOF PLANS
P5.01	PLUMBING SCHEDULES
P6.01	PLUMBING DETAILS

FIRE ALARM *

FA0.0	FIRE ALARM SYMBOLS, LEGENDS & GENERAL NOTES
FA1.0	FIRE ALARM SITE PLAN
FA2.1	FIRE ALARM FLOOR PLANS
FA2.2	FIRE ALARM FLOOR PLANS
FA2.3	FIRE ALARM FLOOR PLANS
FA4.1	FIRE ALARM RISER DIAGRAM
FA5.1	FIRE ALARM PANEL SCHEDULES
FA6.1	FIRE ALARM DETAILS

TOTAL SHEET: 88

CODES & STANDARDS

PARTIAL LIST OF APPLICABLE CODES

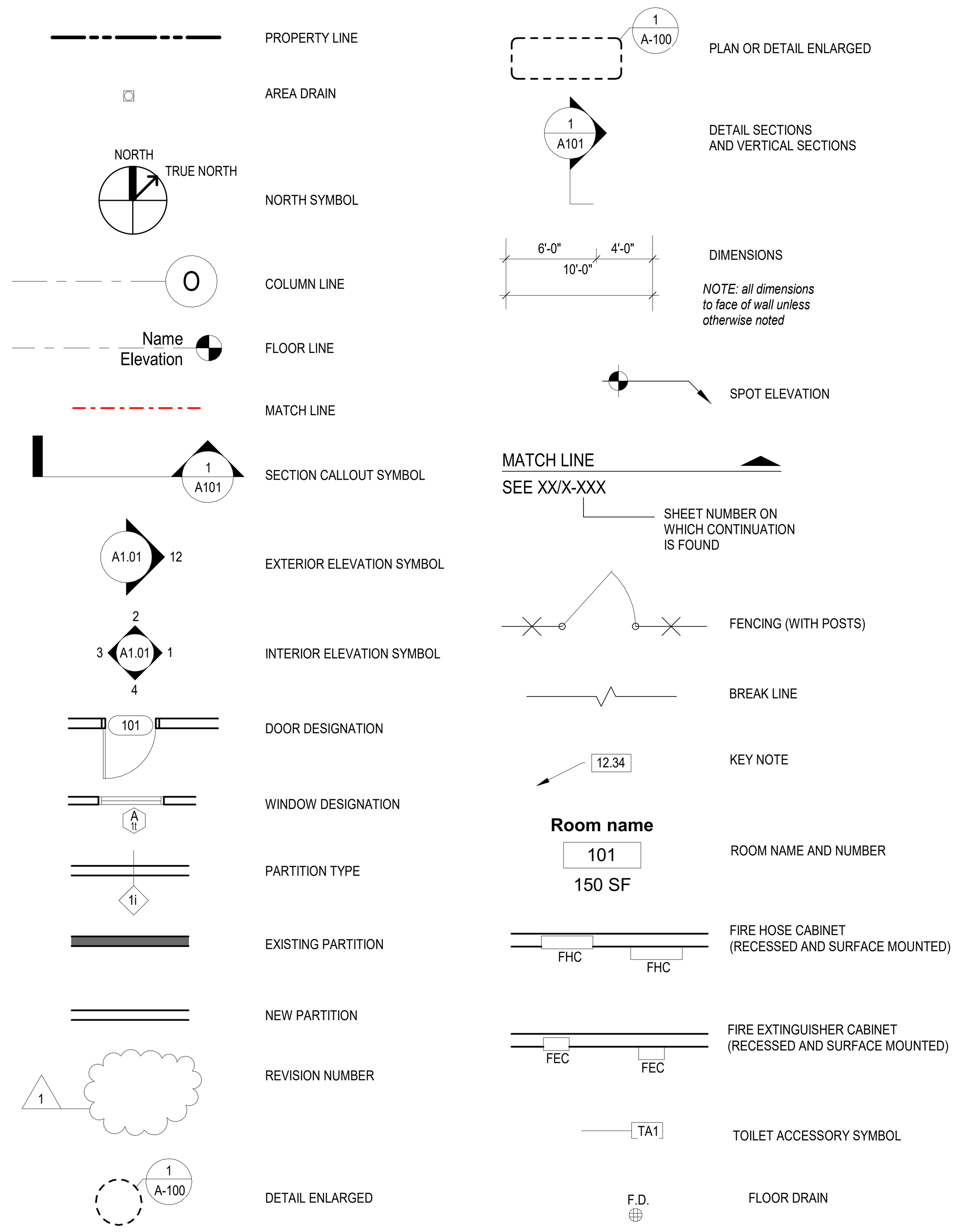
2022 Building Standards Administrative Code	**(Part 1, Title 24, CCR)**
2019 California Building Code (CBC) (2018 International Building Code with 2019 California Ammendments)	**(Part 2, Title 24, CCR)**
2019 California Electrical Code (CEC) (2017 National Electrical Code and 2019 California Amendments)	**(Part 3, Title 24, CCR)**
2019 California Mechanical Code (CMC) (2018 IAMPO Uniform Mechanical Code and 2019 California Amendments)	**(Part 4, Title 24, CCR)**
2019 California Plumbing Code (CPC) (2018 IAMPO Uniform Plumbing Code and 2019 California Amendments)	**(Part 5, Title 24, CCR)**
2019 California Energy Code (CEC)	**(Part 6, Title 24, CCR)**
2019 California Fire Code (CFC) (2018 International Fire Code and 2019 California Amendments)	**(Part 9, Title 24, CCR)**
2019 California Existing Building Code (CEBC) (2018 International Existing Building Code and 2019 California Amendments)	**(Part 10, Title 24, CCR)**
2019 California Green Building Standards Code	**(Part 11, Title 24, CCR)**
2019 California Referenced Standards Code	**(Part 12, Title 24, CCR)**
Regulations of the State Fire Marshall	**(Title 19, CCR)**
2016 ASME A17.1/CSA B44-16 Safety Code for Elevators and Escalators	**(per 2019 CBC Part 2 Ch 35)**

PARTIAL LIST OF FIRE LIFE SAFETY APPLICABLE STANDARDS

NFPA 13 Automatic Fire Sprinkler Systems	**(2016 Edition, CA Amended)**
NFPA 14 Standpipe and Hose Systems	**(2016 Edition, CA Amended)**
NFPA 17 Dry Chemical Extinguishing Systems	**(2017 Edition)**
NFPA 17A Wet Chemical Extinguishing Systems	**(2017 Edition)**
NFPA 20 Stationary Pumps for Fire Protection	**(2016 Edition)**
NFPA 22 Standard for the Installation of Private Fire Service Mains and Their Appurtenances	**(2013 Edition)**
NFPA 24 Private Fire Mains & their Appurtenances	**(2016 Edition, CA Amended)**
NFPA 72 National Fire Alarm & Signaling Code	**(2016 Edition, CA Amended)**
NFPA 80 Fire Doors and Other Opening Protectives	**(2016 Edition)**
NFPA 2001 Clean Agent Fire Extinguishing Systems	**(2015 Edition)**
UL 300 Standard Fire Extinguishing Systems For Protection of Commercial Cooking Equipment	**(2005, R2010)**
UL 464 Audible Signal Appliances	**(2018 Edition)**
UL 521 Standard for Heat Detectors for Fire Protective Signaling Systems	**(1999 Edition)**
UL 1971 Standard for Signaling Devices for the Hearing Impared	**(2002, R2012)**
ICC 300 Standard for Bleachers, Folding and Telescopic Seating, and Grandstands	**(2017 Edition)**

For a complete list of all applicable NFPA standards refer to 2019 CBC (SFM) Chapter 35 and California Fire Code (CFC) Chapter 80.
See California Building Code, Chapter 35, for State of California ammendments to the NFPA Standards

DRAWING CONVENTIONS



CALIFORNIA ENERGY CODE NOTES

1. THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.
2. LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).
3. MECHANICAL SYSTEM ACCEPTANCE TEST MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.
4. ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER / ARCHITECT OF RECORD OR THE OWNER'S AGENT.
5. A LISTING OF CERTIFIED ATT CAN BE FOUND AT: HTTPS.//WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICSPROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE.
6. THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.
7. PROJECT INSPECTORS WILL CORRECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

DSA NOTES

1. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART I, TITLE 24, CCR
2. A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR; CLASS 3
3. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
4. ALL WORK SHALL CONFORM TO 2019 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
5. THE SCOPE OF WORK - CLEARLY INDICATE THE SCOPE OF WORK ON THE COVER SHEET OR GENERAL NOTE SHEET OF THE DRAWINGS.
6. FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY DSA. LIST DEFERRED SUBMITTAL ITEMS FOR THIS PROJECT.
7. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERNATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR,. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(c), PART 1, TITLE 24, CCR).
8. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

SCOPE OF WORK

BUILDING IMPROVEMENTS INCLUDE, BUT ARE NOT LIMITED TO;

FIRE ALARM AND ROOFING UPGRADE ONLY
- EXISTING RELOCATABLE CLASSROOMS CR#A1, A2, A3, A5, A6, A8
- EXISTING CHILD CARE RELOCATABLE BLDG CC
- EXISTING MULTI PURPOSE

ADMIN BUILDING (EXISTING ADMINISTRATION BUILDING)
- (N) HVAC, CEILINGS, WINDOWS, LIGHTS, FINISHES
- (N) BUILT-UP ROOFING MEMBRANE & ASSOCIATED ACCESSORIES ON (E) ROOF STRUCTURE
- TOILET MODERNIZATION
- FIRE ALARM UPGRADE

BUILDING CK (EXISTING KINDERGARTEN CLASSROOM)
- (N) HVAC, CEILINGS, WINDOWS, LIGHTS, FINISHES
- (N) BUILT-UP ROOFING MEMBRANE & ASSOCIATED ACCESSORIES ON (E) ROOF STRUCTURE
- TOILET MODERNIZATION
- FIRE ALARM UPGRADE

BUILDING C1, C2, C3, C4, C5, C6, (EXISTING CLASSROOMS)
- (N) HVAC, CEILINGS, WINDOWS, LIGHTS, FINISHES
- (N) BUILT-UP ROOFING MEMBRANE & ASSOCIATED ACCESSORIES ON (E) ROOF STRUCTURE
- FIRE ALARM UPGRADE

EXISTING COVERED WALKWAYS
- (N) BUILT-UP ROOFING MEMBRANE & ASSOCIATED ACCESSORIES ON (E) ROOF STRUCTURE

NEW INTERIOR AND EXTERIOR PAINT IN ALL BUILDINGS AND STRUCTURES INCLUDING LUNCH SHELTER AND ALL RELOCATABLES.

SHEET NUMBERING

A2.01A

- **SHEET NUMBER**
- **BUILDING AREA**
- **SEQUENCE (.01 - .99......etc.)**
- **SHEET DISCIPLINE TYPE**

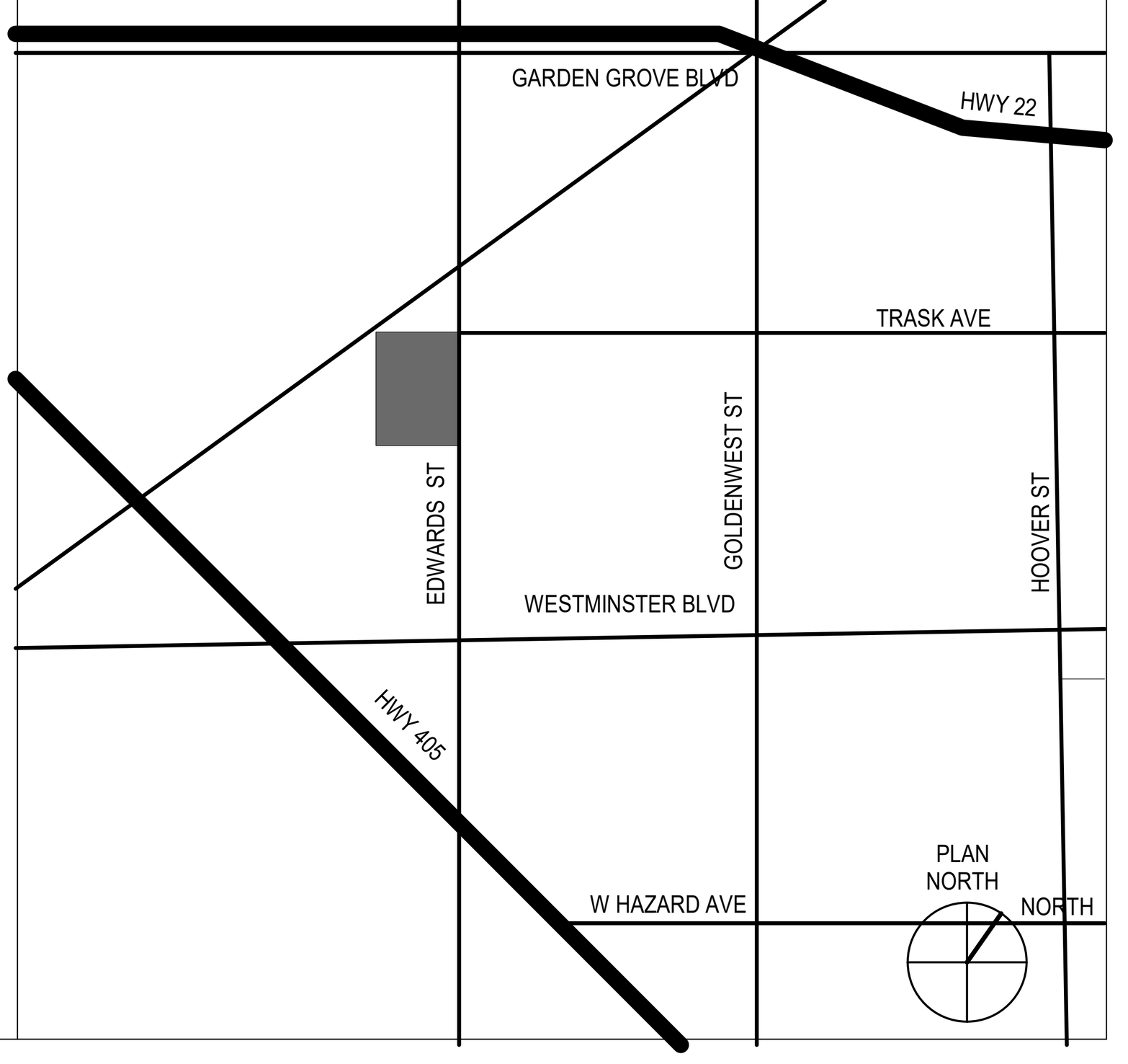
DISCIPLINE

G	GENERAL
C	CIVIL
L	LANDSCAPE
CA	SPORTS
S	STRUCTURAL
D	DEMOLITION
A	ARCHITECTURAL
M	MECHANICAL
E	ELECTRICAL
P	PLUMBING
T	TECHNOLOGY
FS	FOOD SERVICE
AV	ACOUSTICAL
TH	THEATRICAL

SHEET DISCIPLINE TYPE

0 - GENERAL
0 - SITE PLANS & DETAILS
1 - FLOOR PLANS
2 - REFLECTED CEILING PLANS & DETAILS
3 - ROOF PLANS & DETAILS
4 - BUILDING SECTIONS
5 - ADA & ENLARGED PLANS
6 - ENLARGED PLAN DETAILS
7 - ENLARGED MILLWORK & DETAILS
8 - PARTITION TYPES & WALL SECTIONS
9 - WINDOWS, DOORS, FRAME ELEVATIONS & DETAILS
10 - FINISH SCHEDULES
11 - ELEVATIONS (EXTERIOR & INTERIOR)
12 - CASEWORK ELEVATIONS

SITE LOCATION MAP



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DATE: 08/11/2023

PBK

ARCHITECT	PBK Architects, Inc.

ANAHEIM
2400 E. Katella Ave. #910
Anaheim, CA 92806
P 949-548-5000
PBK.com

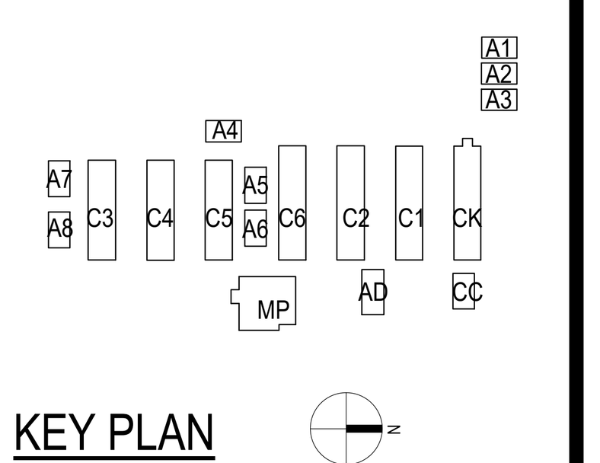
FINLEY ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
13521 Edwards St.,
Westminster, CA 92683

DSA SUBMITTAL

DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43

WESTMINSTER SCHOOL DISTRICT EST. 1872



KEY PLAN
NORTH: PLAN

Consultant

Architect
LICENSED ARCHITECT
Yong Yoo
No. C-31162
REN. 10-31-2023
STATE OF CALIFORNIA

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
05-16-2023	220307

REVISIONS

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DSA SUBMITTAL

SHEET INDEX, DRAWING CONVENTIONS, AND LOCATION MAP

G1

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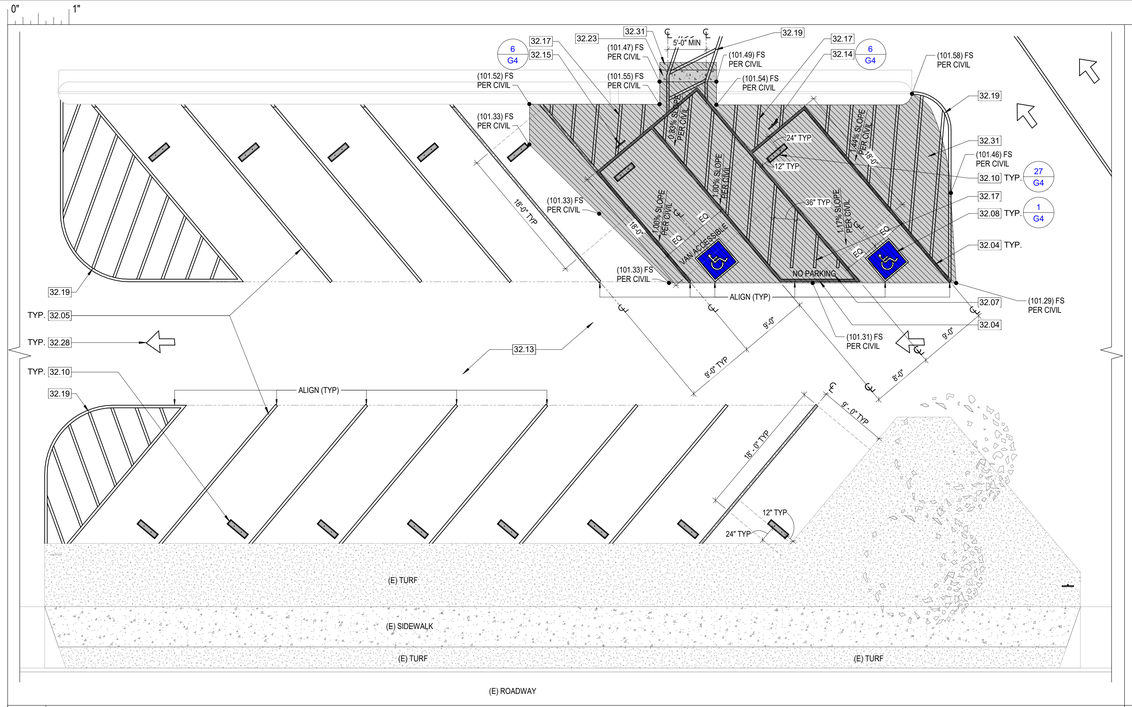
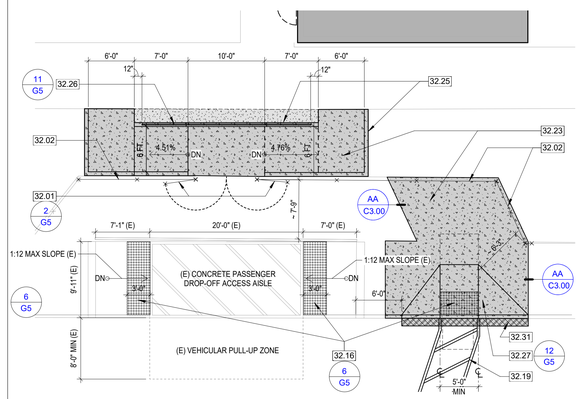
G2 - ACCESSIBILITY SITE PLAN



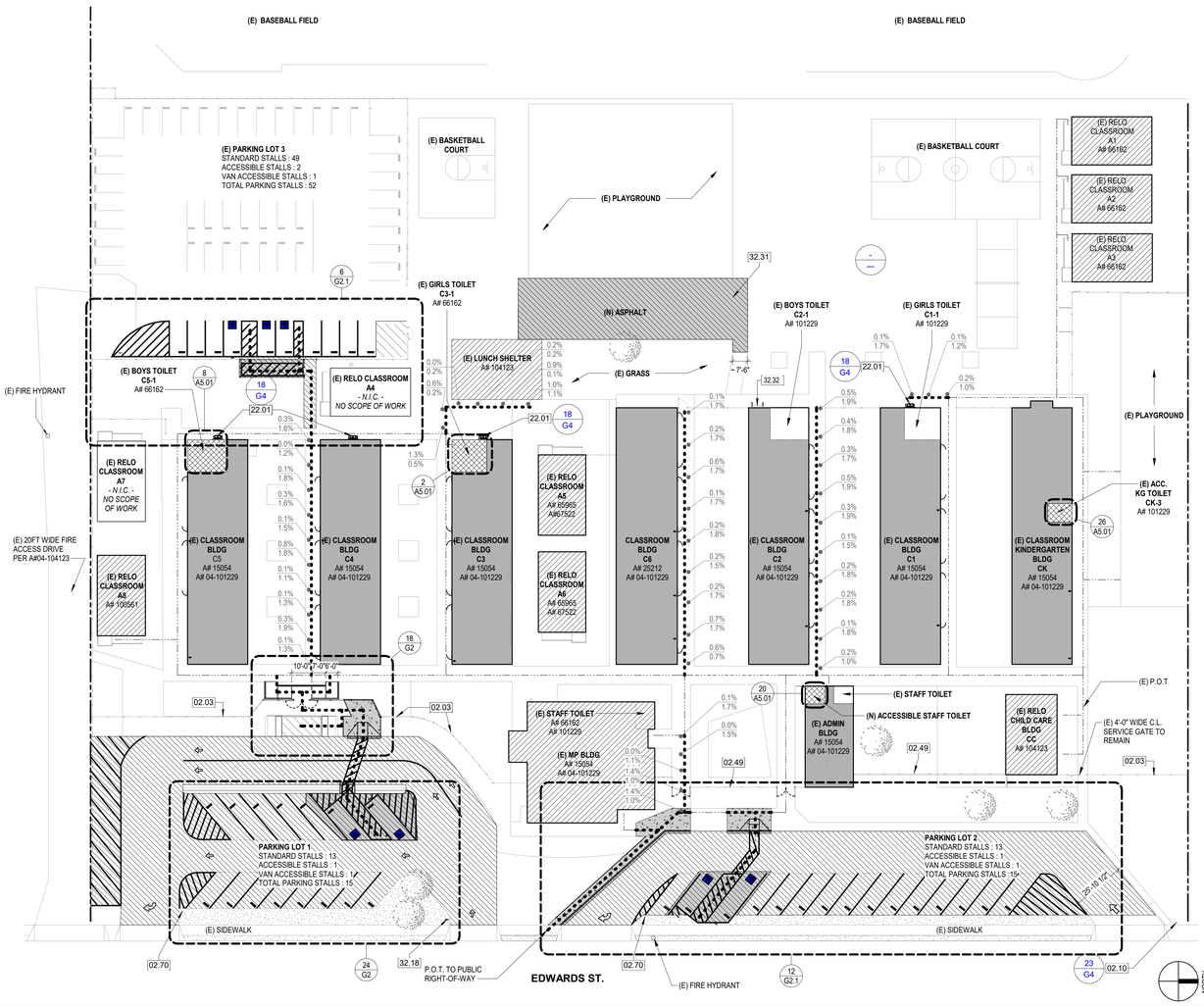
24 PARKING LOT 1 - ENLARGED SITE PROPOSED PLAN

1/8" = 1'-0"



18 PASSENGER DROP-OFF ZONE - ENLARGED SITE PROPOSED PLAN

1/8" = 1'-0"



6 ACCESSIBILITY SITE PLAN

1" = 30'-0"

PATH OF TRAVEL

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

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

PARKING CALCULATION

PARKING LOT 1 :
STANDARD STALLS..... 13
VAN ACCESSIBLE STALLS PROVIDED..... 1
STD ACCESSIBLE STALLS PROVIDED..... 1

TOTAL P-LOT STALLS..... 15
NO. OF REQUIRED ACCESSIBLE PARKING SPACES..... 1

PARKING LOT 2 :
STANDARD STALLS..... 13
VAN ACCESSIBLE STALLS..... 1
STD ACCESSIBLE STALLS..... 1

TOTAL P-LOT STALLS..... 15
NO. OF REQUIRED ACCESSIBLE PARKING SPACES..... 1

(E) PARKING LOT 3 :
STANDARD STALLS..... 49
VAN ACCESSIBLE STALLS..... 1
STD ACCESSIBLE STALLS..... 2

TOTAL P-LOT STALLS..... 52
NO. OF REQUIRED ACCESSIBLE PARKING SPACES..... 3

TOTAL NO. OF REQUIRED ACCESSIBLE PARKING SPACES..... 5
TOTAL NO. OF ACCESSIBLE PARKING SPACES PROVIDED..... 7
TOTAL NO. OF REQUIRED PARKING SPACES FOR THIS LOT..... 82

ACCESSIBILITY KEYED NOTES

02.03 (E) 6'-0"H GALV STEEL CHAIN LINK FENCE TO REMAIN
02.10 (E) TOW AWAY SIGN, PER DETL 23/G4
02.19 (E) DRINKING FOUNTAIN TO REMAIN
02.49 (E) METAL FENCE AND POSTS TO REMAIN
02.70 (E) "DO NOT ENTER" SIGNAGE
22.01 (N) ACCESSIBLE DRINKING FOUNTAIN W/ BOTTLE FILLER AND WING GUARDS. SEE DETAIL 18/G4
32.01 (N) 6'-0" HIGH DBL LEAF GALV. STEEL CHAIN LINK GATE WITH PANIC HARDWARE PER DETAIL 2/G5
32.02 (N) 6'-0" HIGH GALV. STEEL CHAIN LINK FENCE, PER DETAIL 22/G4
32.04 (N) 4" WIDE PAINTED BLUE STRIPING
32.05 (N) 4" WIDE PAINTED WHITE STRIPING
32.07 (N) 12" HIGH MIN. LETTERS IN WHITE PAINT, READING 'NO PARKING'. NO DIAGONAL STRIPING THROUGH TEXT, TYP.
32.08 (N) INTERNATIONAL SYMBOL OF ACCESSIBILITY PER DETAIL 1/G4
32.10 (N) CONCRETE WHEELSTOP PER DETAIL 27/G4
32.13 (N) ASPHALT SLURRY COAT
32.14 (N) VAN ACCESSIBLE PARKING SIGN PER DETAIL 6/G4
32.15 (N) ACCESSIBLE PARKING SIGN PER DETAIL 6/G4
32.16 (N) TRUNCATED DOMES PER DETAIL 6/G5
32.17 (N) 4" WIDE PAINTED WHITE HATCH LINES AT 36" OC
32.18 (N) TOW AWAY SIGNAGE PER DETAIL 23/G4
32.19 (N) 4" WIDE PAINTED WHITE BORDER & HATCH LINES AT 36" OC
32.23 (N) CONCRETE PAVEMENT PER CIVIL
32.25 (N) CONC CURB PER CIVIL
32.26 (N) CURB MOUNTED HANDRAIL PER DETL 11/G5
32.27 (N) ACCESSIBLE CURB RAMP PER CIVIL DWGS & DETL 12/G5
32.28 (N) PAINTED WHITE DRIVE AISLE DIRECTIONAL SIGNAGE
32.31 AREA OF (N) ASPHALT PAVEMENT PER CIVIL
32.32 PROVIDE BARRIER RAIL AT (E) DRINKING FOUNTAIN PER DETAIL 3/G4

ACCESSIBILITY LEGEND

- (E) PATH OF TRAVEL (PER A#66162)
- (E) PATH OF TRAVEL (PER A#04-100561)
- (E) PATH OF TRAVEL (PER A#04-104123)
- (N) PATH OF TRAVEL
- PROPERTY LINE
- (E) BUILDING N.I.C. - NO SCOPE OF WORK
- (E) BUILDING - FIRE ALARM SCOPE ONLY (IN SCOPE OF WORK)
- (E) BUILDING TO BE REMODELED (IN SCOPE OF WORK)
- TOILET ROOMS
  RR = GENDER NEUTRAL RESTROOM
  B = BOYS
  G = GIRLS
  S = STAFF
- AREAS OF MODIFICATION
- AREA OF (N) CONCRETE PAVING
- AREA OF (N) ASPHALT PAVING
- AREA OF (N) ASPHALT SLURRY COAT AND (N) PARKING STRIPING
- SLOPE IN DIRECTION OF TRAVEL — (E) SLOPES PER SMART LEVEL, VERIFIED IN FIELD. — CROSS SLOPE

GENERAL NOTES

1. REFER TO CIVIL DRAWINGS FOR NEW PAVING AREAS AND DETAILS.

DSA CERTIFICATION LIST

1. THE FOLLOWING PROJECT... **A# 04-101229** CLOSED WITH DSA CERTIFICATION ON 7/8/2016
2. THE FOLLOWING PROJECT... **A# 04-104123** CLOSED WITH DSA CERTIFICATION ON 7/31/2009
3. THE FOLLOWING PROJECT... **A# 04-100561** CLOSED WITH DSA CERTIFICATION ON 7/17/2013
4. THE FOLLOWING PROJECT... **A# 04-66162** CLOSED WITH DSA CERTIFICATION ON 6/16/2009
5. THE FOLLOWING PROJECT... **A# 25212** CLOSED WITH DSA CERTIFICATION ON 10/15/1964
6. THE FOLLOWING PROJECT... **A# 15054** CLOSED WITH DSA CERTIFICATION ON 1/3/1957
7. THE FOLLOWING PROJECT... **A# 04-118246** PROJECT CANCELLED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121814 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 08/11/2023

PBK

ARCHITECT PBK Architects, Inc.
PBK.com
ANAHEIM
2400 E. Katella Ave, #910
Anaheim, CA 92806
P 949-548-6000

FINLEY ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
13521 Edwards St.
Westminster, CA 92683

DSA SUBMITTAL

DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43

WESTMINSTER SCHOOL DISTRICT

KEY PLAN
NORTH: PLAN

Consultant

Architect
LICENSED ARCHITECT
Yong Yoo
No. C-31162
REN. 10-31-2023
STATE OF CALIFORNIA

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
05-16-2023	220307

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No.	Description	Date

DSA SUBMITTAL

ACCESSIBILITY SITE PLAN

G2

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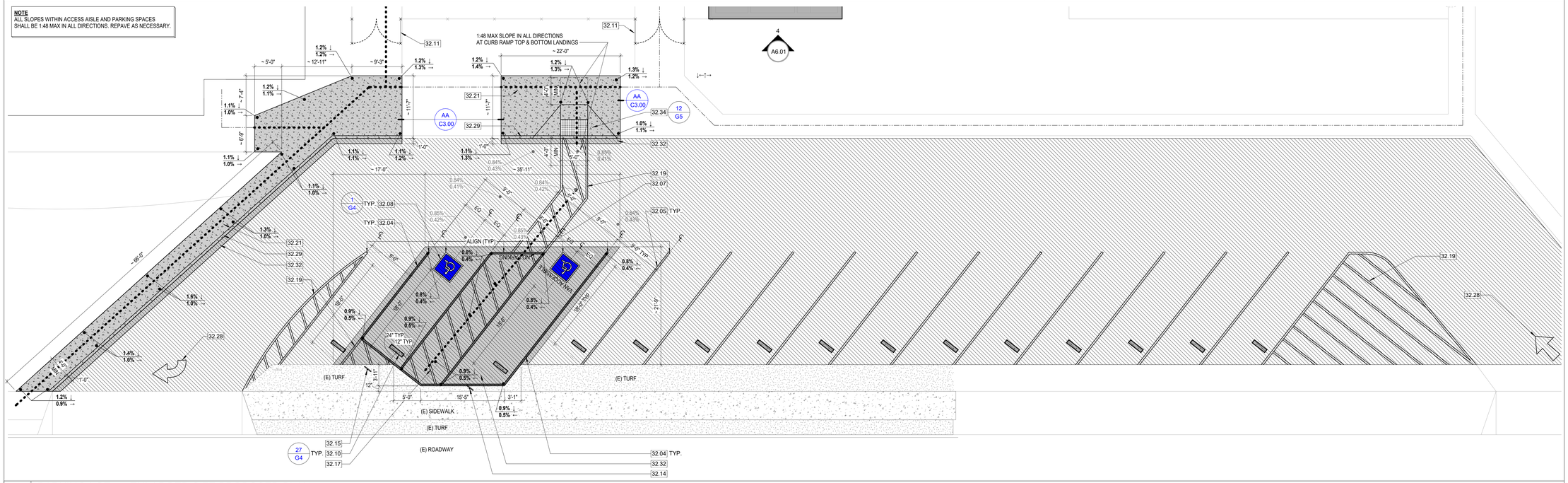
0" 1"

ACCESSIBILITY LEGEND

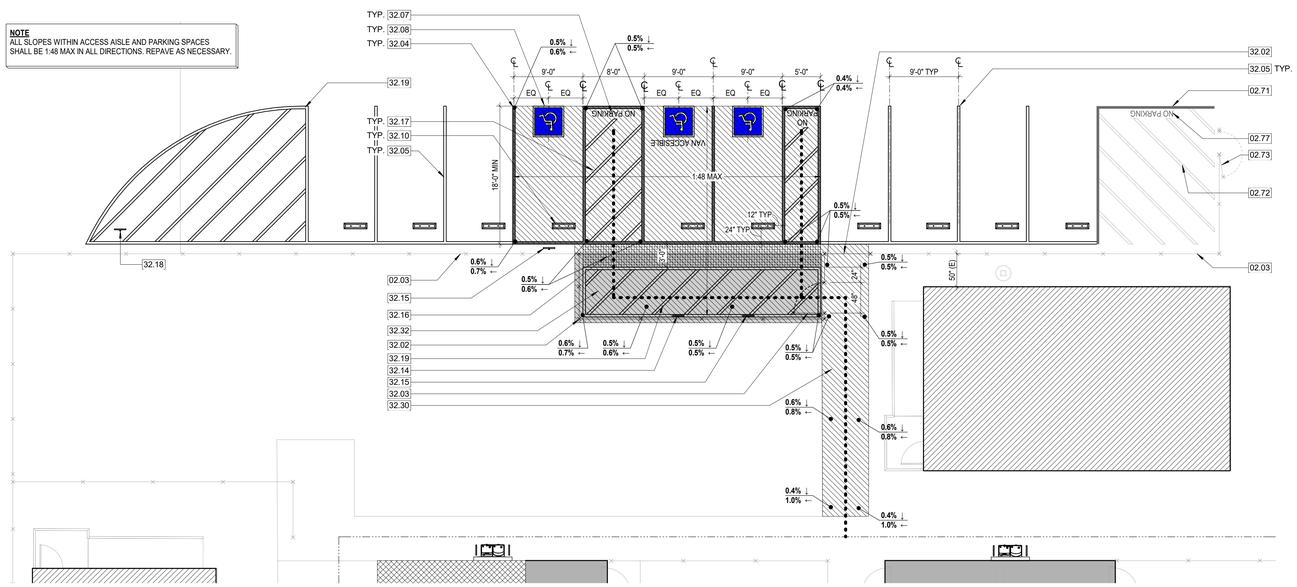
- (E) PATH OF TRAVEL (PER A#04-100561)
- (E) PATH OF TRAVEL (PER A#04-104123)
- (N) PATH OF TRAVEL
- (E) BUILDING FIRE ALARM SCOPE ONLY
- BUILDING TO BE REMODELED
- AREA OF (N) CONCRETE PAVING
- AREA OF (N) ASPHALT PAVING
- AREA OF (N) ASPHALT SLURRY COAT AND (N) PARKING STRIPING
- 0.0% / 0.0% — SLOPE IN DIRECTION OF TRAVEL / CROSS SLOPE — (E) SLOPES PER SMART LEVEL, VERIFIED IN FIELD.
- 0.0% / 0.0% — ARROW INDICATING DIRECTION OF SLOPE (DN) — (N) SLOPES

ACCESSIBILITY KEYED NOTES

02.03 (E) 6'-0"H GALV STEEL CHAIN LINK FENCE TO REMAIN
02.71 (E) 4" WIDE PAINTED BLUE STRIPING TO REMAIN
02.72 (E) 4" WIDE PAINTED WHITE STRIPING @ 36" OC TO REMAIN
02.73 (E) CHAINLINK GATE TO REMAIN
02.77 (E) 12" HIGH MIN. LETTERS IN WHITE PAINT, READING 'NO PARKING'. NO DIAGONAL STRIPING THROUGH TEXT
32.02 (N) 6'-0" HIGH GALV. STEEL CHAIN LINK FENCE, PER DETAIL 22/G4
32.03 (N) 6'-0" HIGH GALV. STEEL CHAIN LINK GATE, PER DETAIL 14/G5
32.04 (N) 4" WIDE PAINTED BLUE STRIPING
32.05 (N) 4" WIDE PAINTED WHITE STRIPING
32.07 (N) 12" HIGH MIN. LETTERS IN WHITE PAINT, READING 'NO PARKING'. NO DIAGONAL STRIPING THROUGH TEXT, TYP.
32.08 (N) INTERNATIONAL SYMBOL OF ACCESSIBILITY PER DETAIL 1/G4
32.10 (N) CONCRETE WHEELSTOP PER DETAIL 27/G4
32.11 (N) PAIR OF ORNAMENTAL GATES WITH PANIC HARDWARE PER DETAIL 20/G4
32.14 (N) VAN ACCESSIBLE PARKING SIGN PER DETAIL 6/G4
32.15 (N) ACCESSIBLE PARKING SIGN PER DETAIL 6/G4
32.16 (N) TRUNCATED DOMES PER DETAIL 6/G5
32.17 (N) 4" WIDE PAINTED WHITE HATCH LINES AT 36" OC
32.18 (N) TOW AWAY SIGNAGE PER DETAIL 23/G4
32.19 (N) 4" WIDE PAINTED WHITE BORDER & HATCH LINES AT 35° OC
32.21 (N) CONC PAVEMENT W/ 5% MAX SLOPE IN DIRECTION OF TRAVEL & 2% MAX CROSS SLOPE PER DETAIL 2/C3.00
32.28 (N) PAINTED WHITE DRIVE AISLE DIRECTIONAL SIGNAGE
32.29 (N) CONC CURB PER DETL 3/C3.00
32.30 AREA OF (N) ASPHALT SLURRY COAT W/ 5% MAX SLOPE IN DIRECTION OF TRAVEL & 2% MAX CROSS SLOPE
32.32 AREA OF (N) ASPHALT PAVEMENT W/ 1:48 MAX SLOPE IN ALL DIRECTIONS, PARKING LOT SECTION, PER TABLE 1/C3.00
32.34 (N) ACCESSIBLE CURB RAMP PER DETAILS 12/G5 & 2/C3.00



12 PARKING LOT 2 - ENLARGED SITE PROPOSED PLAN
1/8" = 1'-0"



6 PARKING LOT 3 ACCESSIBLE PARKING - ENLARGED SITE PLAN
1/8" = 1'-0"

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DATE: 08/11/2023

PBK

ARCHITECT PBK Architects, Inc.
PBK.com
ANAHEIM
2400 E. Katella Ave. #910
Anaheim, CA 92806
P 949-548-6000

FINLEY ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
13621 Edwards St.
Westminster, CA 92683

DSA SUBMITTAL

DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43

WESTMINSTER SCHOOL DISTRICT

A1 A2 A3 A4 A5 A6 A7 A8 C3 C4 C5 C6 C2 C1 CK AD CC MP

KEY PLAN
NORTH: PLAN

Consultant

Architect

LICENSED ARCHITECT
Tong Yoo
No. C-31162
REN. 10-31-2023
STATE OF CALIFORNIA

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
05-16-2023	220307

REVISIONS

No.	Description	Date

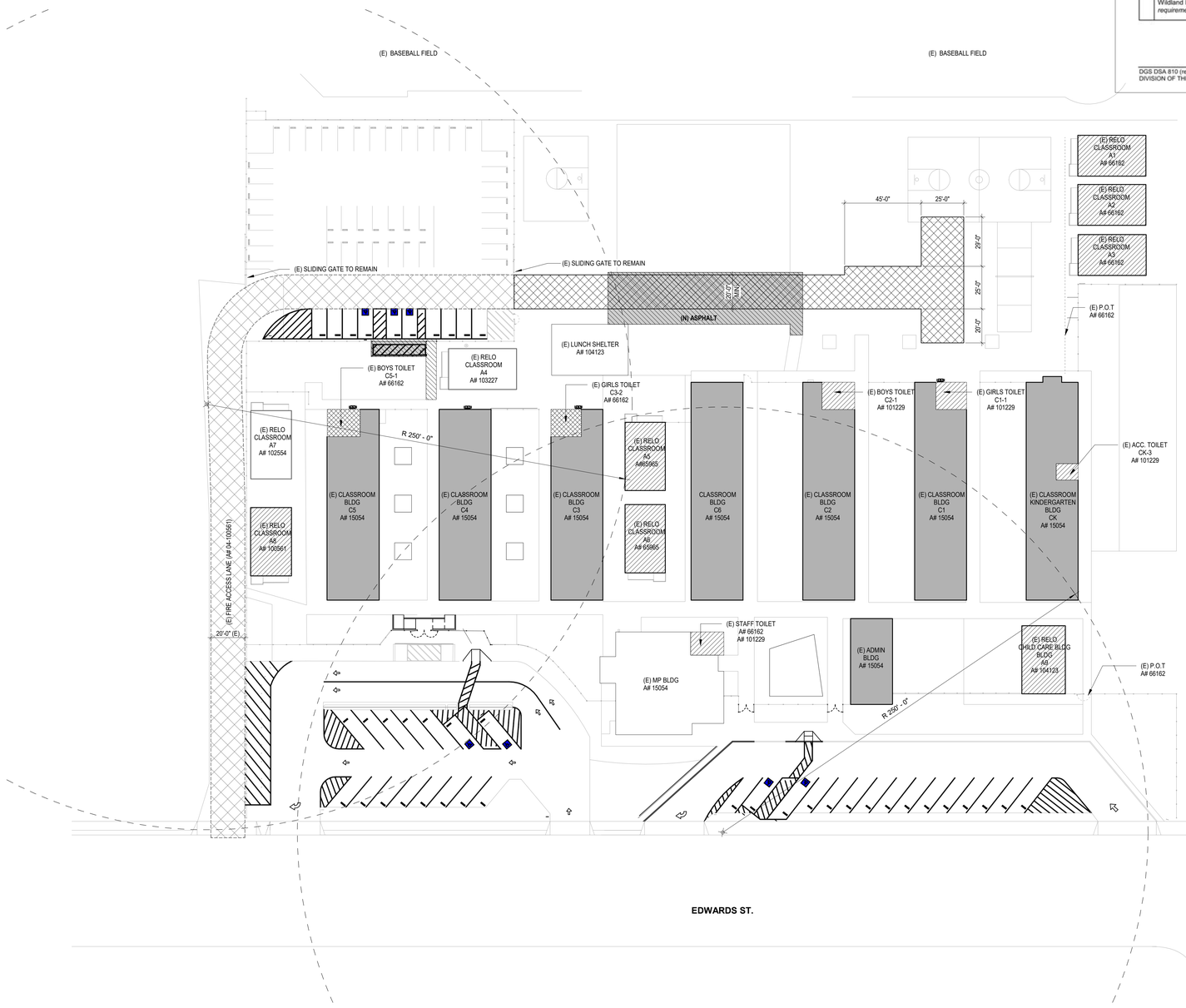
DSA SUBMITTAL

ENLARGED SITE PLANS

G2.1

G3 - FIRE ACCESS SITE PLAN

0" 1"



1 FIRE ACCESS SITE PLAN
1" = 30'-0"

DSA 810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

Division of the State Architect (DSA) documents referenced within this publication are available on the DSA Forms or DSA Publications webpages.

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply.

Information associated with compliance items 1 through 3 below is to be provided for all project types indicated above. Information associated with items 4 through 7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the Local Fire Authority (LFA) is only required when an alternate design means is being requested.

The Project Information and Fire & Life Safety Information sections are to be completed for all projects and imaged onto the fire access site plan. When an alternate design/means is proposed, all sections on pages 1 and 2 are to be completed and imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy *PL 09-01: Fire Flow for Buildings*.

PROJECT INFORMATION	
School District/Owner:	Westminster Unified School District
Project Name/School:	Finley Elementary School HVAC Upgrade & Modernization
Project Address:	13521 Edwards Street, Westminster, CA 92683

FIRE & LIFE SAFETY INFORMATION				
1.	Has a fire hydrant flow test been performed within the past 12 months? *(If yes, provide a copy of the test data.)*	Yes ☐		No ☑
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes ☐		No ☑
3.	Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? *(If yes, indicate FHSZ classification below.)*	Yes ☐		No ☑
	Refer to the following website for FHSZ locations: http://egis.fire.ca.gov/FHSZ/	Moderate ☐	High ☐	Very High ☐
	Wildland Interface Area (WIFA) *(If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)*			WIFA ☐

FIRE ACCESS LEGEND / CODE INFORMATION

- PROPERTY LINE
- (E) BUILDING NOT IN SCOPE
- (E) FIRE ACCESS LANE (A# 04-100561)
- (N) FIRE ACCESS LANE
- ACCESSIBLE RESTROOM TO BE PROVIDED AS PART OF THE CONTRACT
  RR = GENDER NEUTRAL RESTROOM
  B = BOYS
  G = GIRLS
  S = STAFF
- 150' MAX. FIRE HOSE
- 250' MAX. DISTANCE TO FH

NOTE:
COMPLY WITH CFC CHAPTER 33 - FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION.

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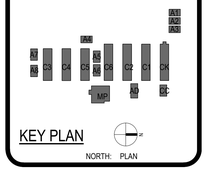

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Architect
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Yong Yoo
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WESTMINSTER SCHOOL DISTRICT

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DSA SUBMITTAL

FIRE ACCESS SITE PLAN

G3

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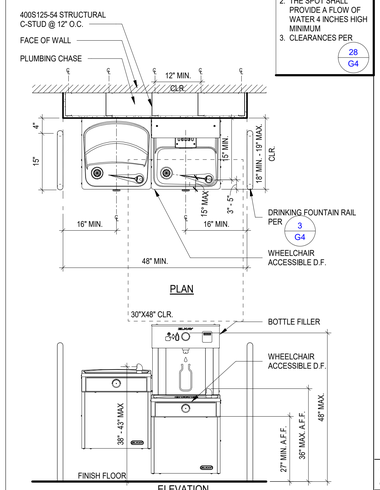
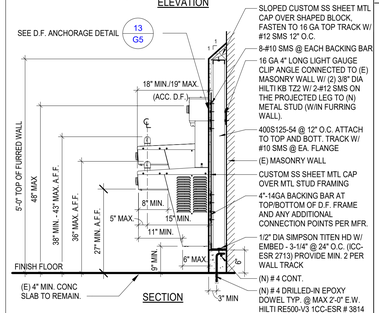
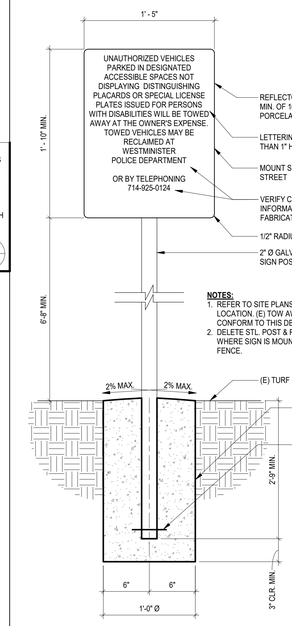
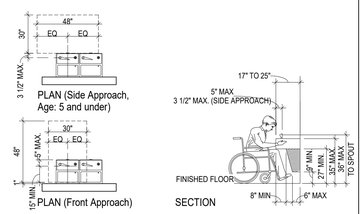
DRINKING FOUNTAIN
MFR: EKLAY
MODEL: EZH2O
DESCRIPTION: BOTTLE FILLER REFER TO PLUMBING SPOUT TO PROVIDE A FLOW OF WATER 4" HIGH MIN.

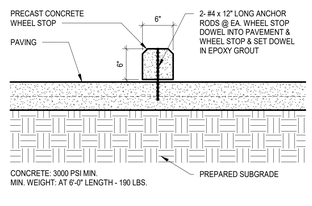
NOTES:
1. UNDERSIDE OF D.F. IS FREE OF SHARP OR ABRASIVE EDGES OR SURFACES
2. THE SPOT SHALL PROVIDE A FLOW OF WATER 4 INCHES HIGH MINIMUM
3. CLEARANCES PER 28/G4

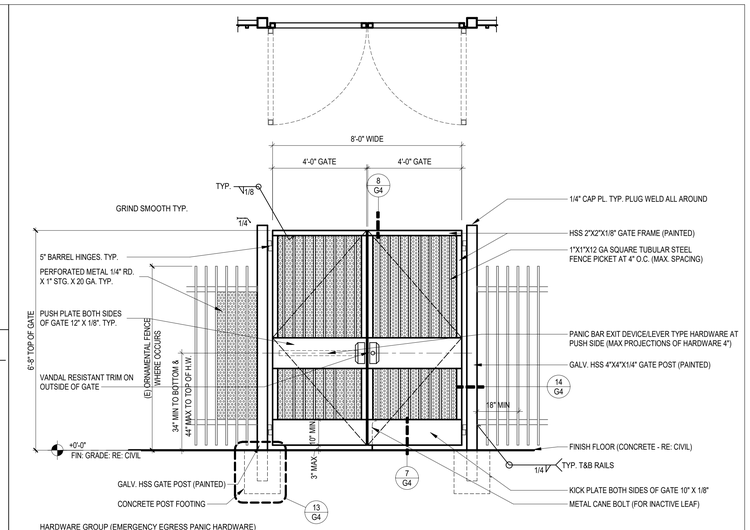












HARDWARE GROUP (EMERGENCY EGRESS PANIC HARDWARE)
- 3 HINGE (HEAVY WEIGHT): T4A3386 4-1/2" X 4-1/2" NRP
- EXIT HARDWARE: VON DUPRIN AXPA-98EO-US26D - 3 OR 4 FT LENGTH DEPENDING ON GATE SIZE (PUSH BAR EXIT DEVICE) VON DUPRIN 996L-NL-R/V-US26D (OUTSIDE TRIM FOR PUSH BAR NIGHT LATCH FUNCTION)
- EXIT PULL DEVICE: VON DUPRIN 996L-DT
- FORMAT IC CORE (KEYED PER DISTRICT REQUIREMENT)
- CLOSURE: LOCINOX PART # MAMMOTH 180-ZILV (HYDRAULIC GATE CLOSER)
- KICK PLATE: 10 GA. GALV.
- HARDWARE BACKING-PLATE: 24" TALL X WIDTH OF GATE 16 GA GALV.
- CLOSURE BACKING PLATE: SIZED FIT ITEM C. CLOSURE.
- FLAT MOUNTED GORILLA WELD ON HINGES.

***DOOR CLOSERS AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM
*** THE FORCE REQUIRED TO ACTIVATE GATE OPERABLE PARTS (SWING & UNLATCHING) SHALL BE 5 LBS. MAXIMUM.

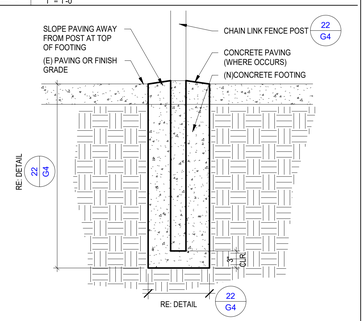
PROVIDE NEW SECURITY GATES WITH POWDER COATED PAINTS.

NOTE:
*GATES SHALL HAVE AN OPENING FORCE OF FIVE POUNDS MAXIMUM PER CBC 11B-404.2.9.
*HARDWARE SHALL UNLATCH WITH FIVE POUNDS MAXIMUM FORCE PER CBC 11B-309.4.

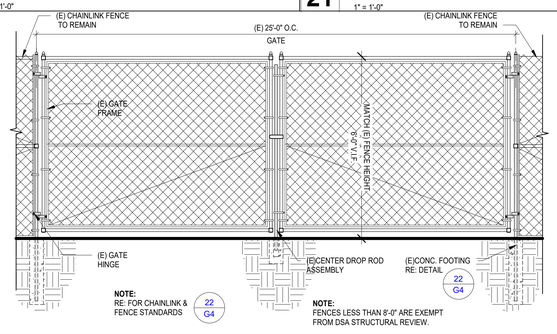
28 DRINKING FOUNTAIN GUIDELINE
1/4" = 1'-0"

Item	Height	Nominal Pipe Size (Inches)	Outside Diameter (Inches)	Weight (pounds per foot)	Conc Footings f'c=3000 psi min.	
					Diameter (Inches)	Depth (Inches)
Top Rail, Brace Rails and Transom Rails	Up to 10'-0"	1-1/4	1.660	2.27	N/A	N/A
	10'-1" to 16'-0"	1-1/2	1.900	2.72	N/A	N/A
Line Posts	Up to 6'-0"	2	2.375	2.65	12	30
	6'-1" to 8'-0"	2	2.375	2.65	12	36
	8'-1" to 10'-0"	2-1/2	2.875	5.79	12	42
	10'-1" to 16'-0"	3	3.500	7.58	14	60
Terminal, Corner, Angle & Pull Posts	Up to 8'-0"	2-1/2	2.875	5.79	12	36
	8'-1" to 10'-0"	2-1/2	2.875	5.79	14	42
	10'-1" to 16'-0"	3	3.500	7.58	14	60
Pedestrian Gate Posts	Up to 8'-0"	2-1/2	2.875	5.79	14	36
Gate Frames	Up to 8'-0"	1-1/2	1.900	2.72	N/A	N/A
Driveway Double-Leaf Swing Gate Posts: Opening						
Up to 17' - 3-1/2"	Up to 8'-0"	3-1/2	4.000	9.11	16	42
17'-4" to 20'- 3 1/2"	Up to 8'-0"	3-1/2	4.000	9.11	16	42

27 CONCRETE WHEEL STOP
1" = 1'-0"

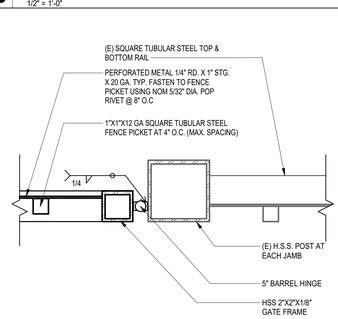


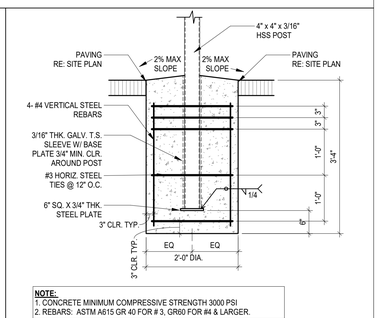
26 CHAINLINK & FENCE SCHEDULE
3" = 1'-0"



21 CHAIN LINK FENCE POST FOOTING
1" = 1'-0"

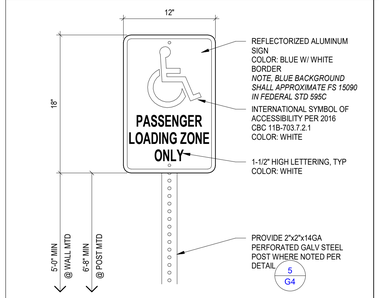
20 ORNAMENTAL FENCE - DOUBLE GATE CUSTOM
1/2" = 1'-0"





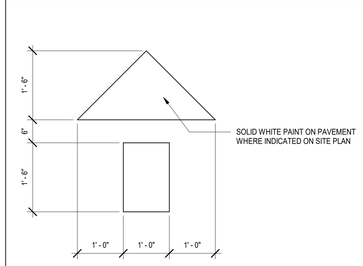
NOTE:
1. CONCRETE MINIMUM COMPRESSIVE STRENGTH 3000 PSI
2. REBARS: ASTM A615 GR 40 FOR # 3, GR60 FOR #4 & LARGER.

18 ACCESSIBLE DRINKING FOUNTAIN
3/4" = 1'-0"



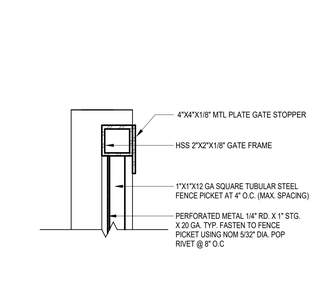
101400.03-S
CBC 2016 - Rev 09/16

17 GUARD POST/ BOLLARD
1/2" = 1'-0"

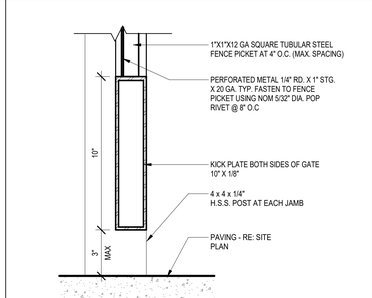


16 CHAINLINK VEHICLE ACCESS GATE
3/8" = 1'-0"

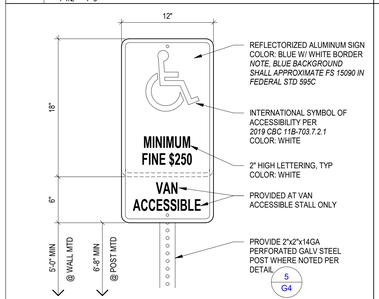
14 HM GATE JAMB DETAIL
3" = 1'-0"



13 STEEL COLUMN AT METAL GATES
3/4" = 1'-0"



12 SIGNAGE - PASSENGER LOADING ZONE
1 1/2" = 1'-0"



101400.02-S

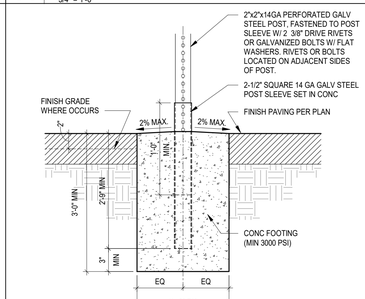
11 PAVEMENT DIRECTIONAL ARROW
3/4" = 1'-0"

10 NOT USED
NA

8 HM GATE HEAD DETAIL
3" = 1'-0"

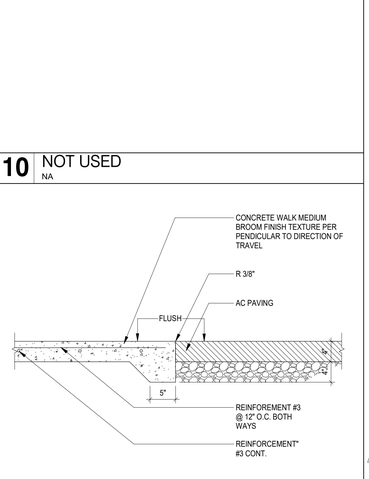
7 HM GATE SILL DETAIL
3" = 1'-0"

6 SIGNAGE - ACCESSIBLE PARKING
1 1/2" = 1'-0"

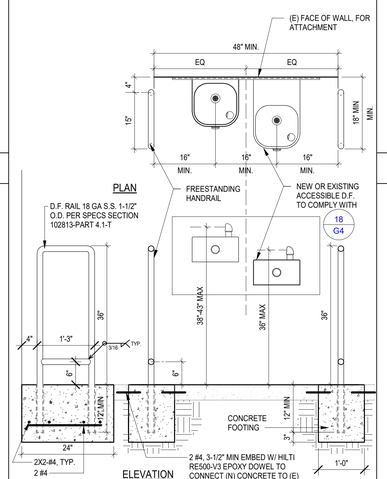


5 SIGN POST DETAIL
1 1/2" = 1'-0"

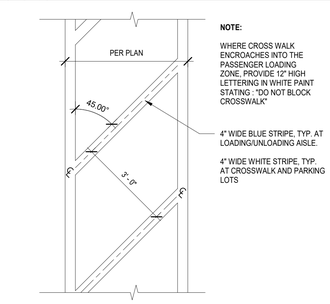
4 (E) CONC. SIDEWALK @ AC PAVING
1" = 1'-0"



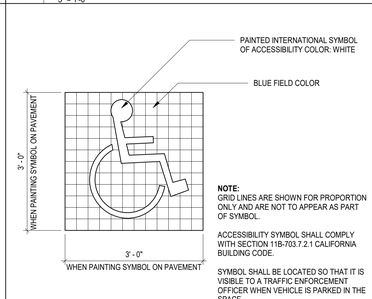
3 DRINKING FOUNTAIN RAILS
3/4" = 1'-0"



2 ACCESSIBLE PEDESTRIAN PATH
1/2" = 1'-0"



1 ACCESSIBLE PARKING SYMBOL
3/4" = 1'-0"



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6/6/2023 11:41:28 AM

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121814 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/11/2023

PBK

ARCHITECT PBK Architects, Inc. PBK.com
ANAHEIM
2400 E. Katella Ave. #910
Anaheim, CA 92806
P 949-548-5000

FINLEY ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
13521 Edwards St.
Westminster, CA 92683

DSA SUBMITTAL

DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43

WESTMINSTER SCHOOL DISTRICT

A1 A2 A3 A4 A5 A6 A7 A8 B C1 C2 C3 C4 C5 C6 C7 C8 C1 CK AB CC MP

KEY PLAN
NORTH: PLAN

Consultant

Architect
LICENSED ARCHITECT Tong Yao No. C-31162 REN. 10-31-2023 STATE OF CALIFORNIA

CLIENT
WESTMINSTER SCHOOL DISTRICT
DATE 05-16-2023
PROJECT NUMBER 220307

REVISIONS

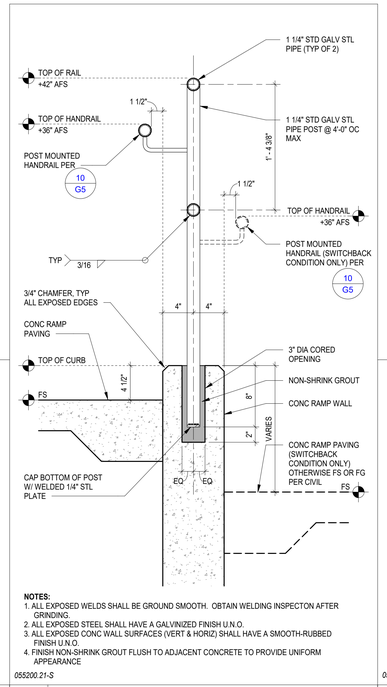
No.	Description	Date

DSA SUBMITTAL

SITE DETAILS

G4

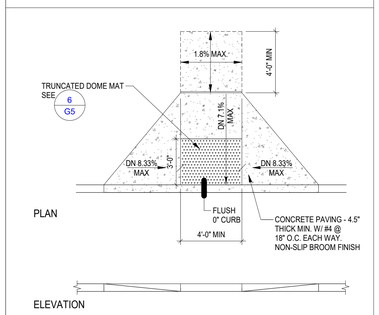
0" 1"



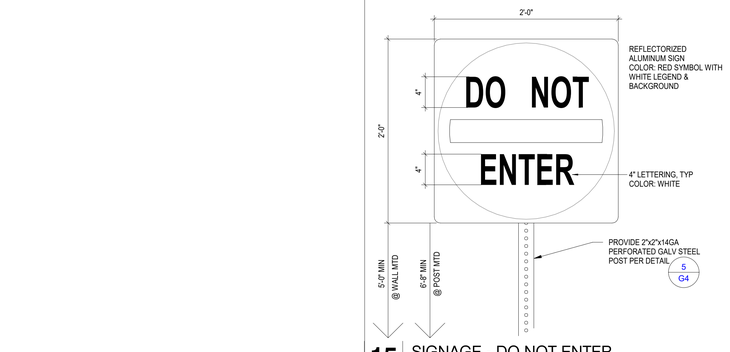
NOTES:
1. ALL EXPOSED WELDS SHALL BE GROUND SMOOTH. OBTAIN WELDING INSPECTON AFTER GRINDING.
2. ALL EXPOSED STEEL SHALL HAVE A GALVINIZED FINISH U.N.O.
3. ALL EXPOSED CONC WALL SURFACES (VERT & HORIZ) SHALL HAVE A SMOOTH-RUBBED FINISH U.N.O.
4. FINISH NON-SHRINK GROUT FLUSH TO ADJACENT CONCRETE TO PROVIDE UNIFORM APPEARANCE

055200.21-S

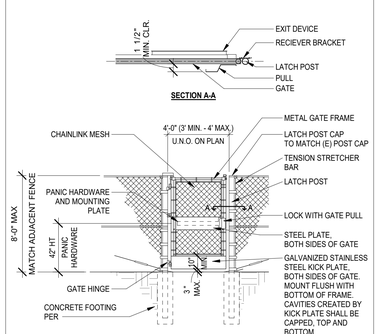
11 CURB MOUNTED HANDRAIL AT RAMP
1 1/2" = 1'-0"



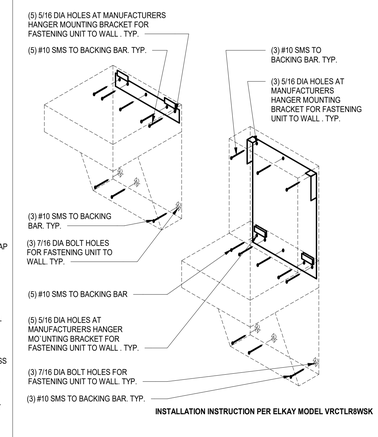
12 ACCESSIBLE CURB RAMP
1/4" = 1'-0"



15 SIGNAGE - DO NOT ENTER
1 1/2" = 1'-0"

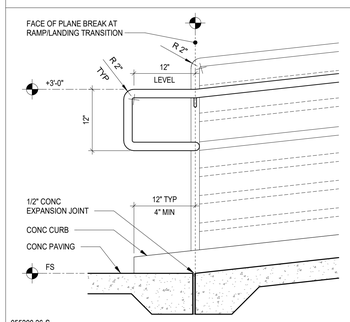


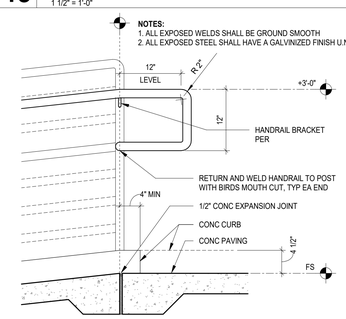
14 CHAINLINK GATE W/ PANIC HARDWARE
1/4" = 1'-0"



INSTALLATION INSTRUCTION PER ELKAY MODEL VRCTLR8WSK

13 D.F. ANCHORAGE DETAIL
1/4" = 1'-0"

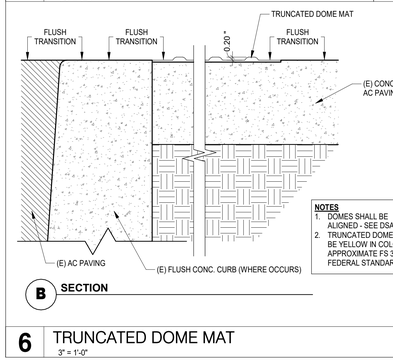




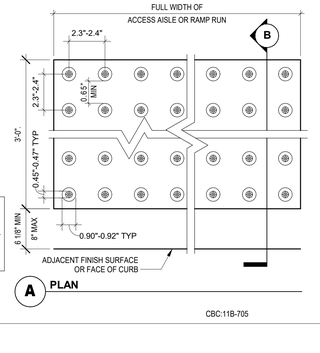
NOTES:
1. ALL EXPOSED WELDS SHALL BE GROUND SMOOTH
2. ALL EXPOSED STEEL SHALL HAVE A GALVINIZED FINISH U.N.O.

055200.20-S

10 CURB MOUNTED HANDRAIL AT RAMP -ELEVATION
1" = 1'-0"

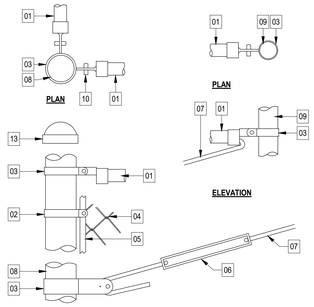


NOTES
1. DOMES SHALL BE ALIGNED - SEE DSA IR11B-4
2. TRUNCATED DOMES SHALL BE YELLOW IN COLOR AND APPROXIMATE FS 33538 OF FEDERAL STANDARD 595A



CBC:11B-705

6 TRUNCATED DOME MAT
3" = 1'-0"



NOTES:

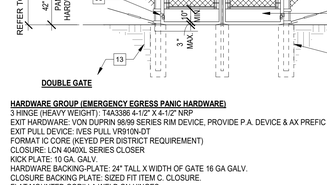
-CONTRACTOR TO VERIFY ALL ATTACHMENTS/DIMENSIONS AND INSTALL PER MANUFACTURER RECOMMENDATIONS

-ALL COMPONENTS ARE TO MATCH COLOR AND FINISH OF EXISTING

-ANY COMPONENTS REQUIRED FOR A COMPLETE FENCE SYSTEM, BUT NOT SHOWN, SHOULD BE CONSIDERED A PART OF THESE DRAWINGS AND INCLUDED IN THE FINAL INSTALLED SYSTEM.

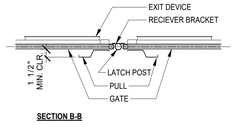
01	BRACE RAIL
02	TENSION CLIP/BAND
03	BRACE BAND PER MANUF. TO BE 4" MAX. FROM TOP & BOT., SPACED 1'-2" O.C. MAX.
04	CHAIN LINK MESH 1" MAX
05	TENSION FLAT BAR PER MANUF.
06	TURNBUCKLE
07	TRUSS ROD PER MANUF.
08	CORNER OR END POST
09	LINE POST
10	BOLT AND NUT. VERY WITH MANUFACTURER
11	NO. 9 GA. ALUM. TIE WIRES, 18" O.C., ALONG TOP & BOT. RAILS; 7 PER 10'-0" SECTION
12	TOP RAIL
13	DOME POST CAP. SIZE TO MATCH POST

4 CHAIN LINK CONNECTIONS
1 1/2" = 1'-0"



DOUBLE GATE

NOTE:
- GATES AND DOORS SHALL BE EQUIPPED WITH SELF-CLOSING AND SELF-LATCHING DEVICES. (CBC 2019 SECTION 11B-404.2.8)
-CLOSE FROM 90° TO 12° IN 5 SECONDS.



SECTION B-B

HARDWARE GROUP (EMERGENCY EGRESS PANIC HARDWARE)
3 HINGE (HEAVY WEIGHT): T4A3386 4-1/2" X 4-1/2" NRP
EXIT HARDWARE: VON DUPRIN 98/99 SERIES RIM DEVICE, PROVIDE P.A. DEVICE & AX PREFIC
EXIT PULL DEVICE: IVES PULL VR910N-DT
FORMAT IC CORE (KEYED PER DISTRICT REQUIREMENT)
CLOSURE: LCN 4040XL SERIES CLOSER
KICK PLATE: 10 GA. GALV.
HARDWARE BACKING-PLATE: 24" TALL X WIDTH OF GATE 16 GA GALV.
CLOSURE BACKING PLATE: SIZED FIT ITEM C. CLOSURE.
FLAT MOUNTED GORILLA WELD ON HINGES.

***DOOR CLOSERS AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS S SECONDS MINIMUM
*** THE FORCE REQUIRED TO ACTIVATE GATE OPERABLE PARTS (SWING & UNLATCHING) SHALL BE 5 LBS. MAXIMUM.

FINISH NOTES:
ALL GATES, DOOR, DOOR FRAME STRUCTURE AND WWM TO BE GALVANIZED

DOOR/DOOR FRAME:	PAINT TO MATCH FENCE
CHAINLIKE FABRIC:	PAINT TO MATCH FENCE
DOOR SUPPORT (HSS):	PAINT TO MATCH FENCE

01	1" - 9 GAUGE GALV. CHAINLIKE FENCE
02	METAL GATE FRAME, REF. 22 G4
03	TENSION FLAT BAR, THREAD TENSION BAR TO CHAIN LINK AND ATTACH TO POST WITH TENSION CLIPS EACH SIDE OF GATE PER MANUF. RECOMMENDATIONS.
04	SCH 40 POST EACH SIDE OF GATE, REF. 22 G4
05	LATCH POST CAP TO MATCH (E) POST CAP.
06	LOCK WITH GATE PULL SEE SECTION A-A AND B-B, TO BE INSTALLED BETWEEN 34"-44" ABOVE GROUND TO HANDLE
07	END POST CAP TO MATCH (E) END POST CAP, REF. 4 G5
08	HINGE AT GATE.
09	10" MIN. HT. GALVANIZED STAINLESS STEEL KICK PLATE, 12 GAUGE, BOTH SIDES OF GATE. WELD TO GATE FRAME. MOUNT FLUSH WITH BOTTOM OF FRAME.
10	PANIC HARDWARE AND MOUNTING PLATE ON SIDE OF GATE. PANIC HARDWARE AND LEVER ON PULL SIDE OF GATE.
11	FINISH GRADE
12	CONCRETE POST FOOTING, REF. 21 G4
13	90% COMPACTED SUBGRADE
14	STEEL PLATE WELDED TO GATE, SMOOTH FINISH, BOTH SIDES OF GATE, WELD TO GATE FRAME.
15	LATCH CENTER POST, 3 1/2" STD. WT. STEEL PIPE, SCH. 40, HOT - DIP GALV.

2 PEDESTRIAN GATE W/ PANIC HARDWARE
1/4" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121814 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/11/2023

PBK

ARCHITECT PBK Architects, Inc.
PBK.com
ANAHEIM
2400 E. Katella Ave. #910
Anaheim, CA 92806
P 949-548-5000

FINLEY ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
13521 Edwards St.
Westminster, CA 92683

DSA SUBMITTAL

DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43

WESTMINSTER SCHOOL DISTRICT

A1 A2 A3 A4 A5 A6 A7 A8 B C1 C2 C3 C4 C5 C6 CK MP AD CC

KEY PLAN NORTH: PLAN

Consultant

Architect

LICENSED ARCHITECT Tong You No. C-31162 REN. 10-31-2023 STATE OF CALIFORNIA

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
05-16-2023	220307

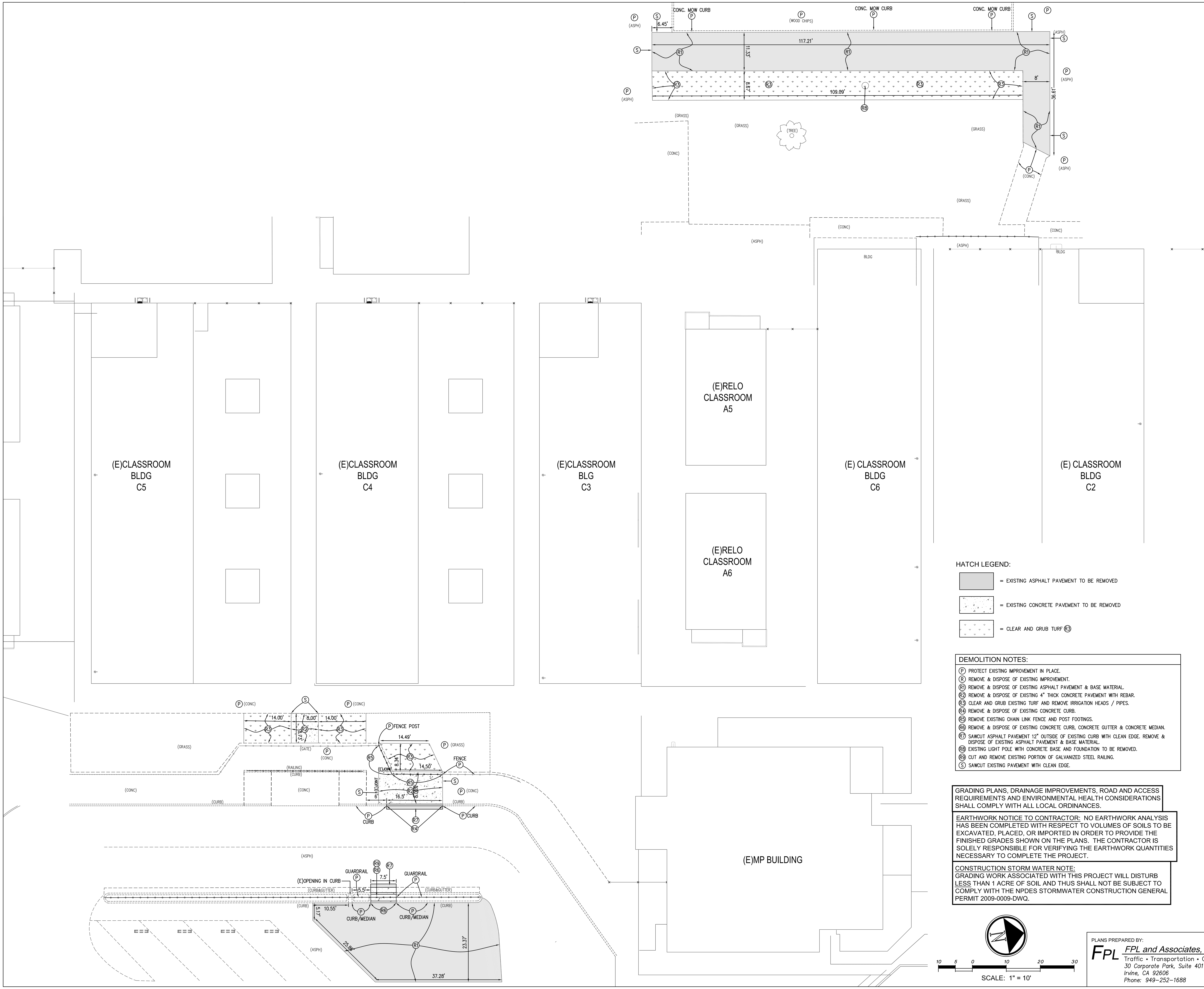
REVISIONS

No.	Description	Date

DSA SUBMITTAL

SITE DETAILS

G5



HATCH LEGEND:

= EXISTING ASPHALT PAVEMENT TO BE REMOVED

= EXISTING CONCRETE PAVEMENT TO BE REMOVED

= CLEAR AND GRUB TURF (R3)

DEMOLITION NOTES:

- (P) PROTECT EXISTING IMPROVEMENT IN PLACE.
- (R) REMOVE & DISPOSE OF EXISTING IMPROVEMENT.
- (R1) REMOVE & DISPOSE OF EXISTING ASPHALT PAVEMENT & BASE MATERIAL.
- (R2) REMOVE & DISPOSE OF EXISTING 4" THICK CONCRETE PAVEMENT WITH REBAR.
- (R3) CLEAR AND GRUB EXISTING TURF AND REMOVE IRRIGATION HEADS / PIPES.
- (R4) REMOVE & DISPOSE OF EXISTING CONCRETE CURB.
- (R5) REMOVE EXISTING CHAIN LINK FENCE AND POST FOOTINGS.
- (R6) REMOVE & DISPOSE OF EXISTING CONCRETE CURB, CONCRETE GUTTER & CONCRETE MEDIAN.
- (R7) SAWCUT ASPHALT PAVEMENT 12" OUTSIDE OF EXISTING CURB WITH CLEAN EDGE. REMOVE & DISPOSE OF EXISTING ASPHALT PAVEMENT & BASE MATERIAL.
- (R8) EXISTING LIGHT POLE WITH CONCRETE BASE AND FOUNDATION TO BE REMOVED.
- (R9) CUT AND REMOVE EXISTING PORTION OF GALVANIZED STEEL RAILING.
- (S) SAWCUT EXISTING PAVEMENT WITH CLEAN EDGE.

GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

EARTHWORK NOTICE TO CONTRACTOR: NO EARTHWORK ANALYSIS HAS BEEN COMPLETED WITH RESPECT TO VOLUMES OF SOILS TO BE EXCAVATED, PLACED, OR IMPORTED IN ORDER TO PROVIDE THE FINISHED GRADES SHOWN ON THE PLANS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING THE EARTHWORK QUANTITIES NECESSARY TO COMPLETE THE PROJECT.

CONSTRUCTION STORM WATER NOTE:
GRADING WORK ASSOCIATED WITH THIS PROJECT WILL DISTURB LESS THAN 1 ACRE OF SOIL AND THUS SHALL NOT BE SUBJECT TO COMPLY WITH THE NPDES STORMWATER CONSTRUCTION GENERAL PERMIT 2009-0009-DWQ.

PLANS PREPARED BY:
FPL and Associates, Inc.
Traffic • Transportation • Civil
30 Corporate Park, Suite 401
Irvine, CA 92606
Phone: 949-252-1688

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121814 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/11/2023

ARCHITECT PBK Architects, Inc.
PBK.com
ANAHEIM
2400 E. Katella Ave. #910
Anaheim, CA 92806
P 949-548-5000

FINLEY ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
13521 Edwards St.,
Westminster, CA 92683

DSA SUBMITTAL
DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43

KEY PLAN
NORTH: PLAN

Consultant

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
5-05-2023	220307

REVISIONS

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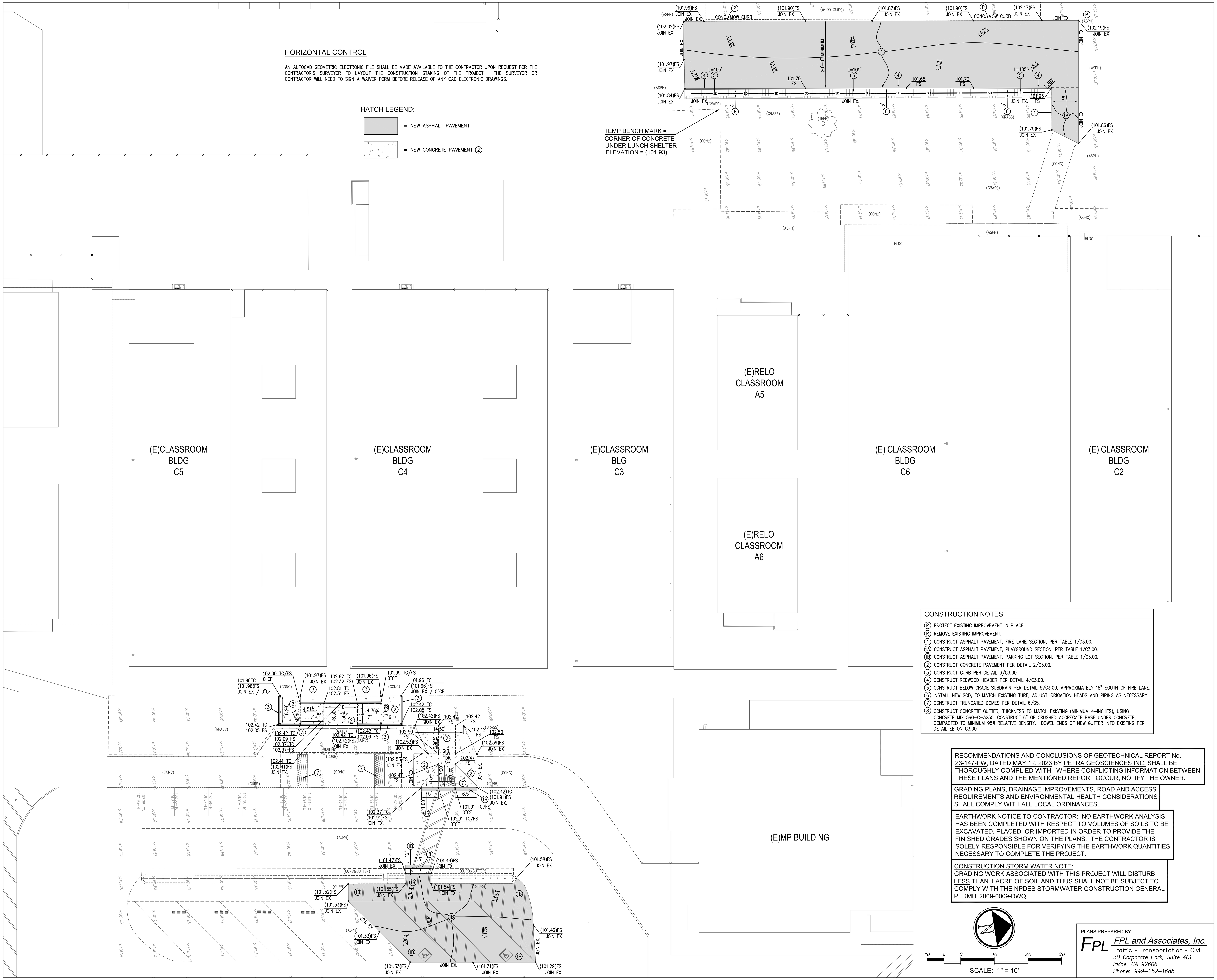
DSA SUBMITTAL

DEMOLITION PLAN

C1.00



HORIZONTAL CONTROL

AN AUTOCAD GEOMETRIC ELECTRONIC FILE SHALL BE MADE AVAILABLE TO THE CONTRACTOR UPON REQUEST FOR THE CONTRACTOR'S SURVEYOR TO LAYOUT THE CONSTRUCTION STAKING OF THE PROJECT. THE SURVEYOR OR CONTRACTOR WILL NEED TO SIGN A WAIVER FORM BEFORE RELEASE OF ANY CAD ELECTRONIC DRAWINGS.

HATCH LEGEND:

= NEW ASPHALT PAVEMENT

= NEW CONCRETE PAVEMENT (2)

CONSTRUCTION NOTES:

(P) PROTECT EXISTING IMPROVEMENT IN PLACE.
(R) REMOVE EXISTING IMPROVEMENT.
(1) CONSTRUCT ASPHALT PAVEMENT, FIRE LANE SECTION, PER TABLE 1/C3.00.
(1A) CONSTRUCT ASPHALT PAVEMENT, PLAYGROUND SECTION, PER TABLE 1/C3.00.
(1B) CONSTRUCT ASPHALT PAVEMENT, PARKING LOT SECTION, PER TABLE 1/C3.00.
(2) CONSTRUCT CONCRETE PAVEMENT PER DETAIL 2/C3.00.
(3) CONSTRUCT CURB PER DETAIL 3/C3.00.
(4) CONSTRUCT REDWOOD HEADER PER DETAIL 4/C3.00.
(5) CONSTRUCT BELOW GRADE SUBDRAIN PER DETAIL 5/C3.00, APPROXIMATELY 18" SOUTH OF FIRE LANE.
(6) INSTALL NEW SOD, TO MATCH EXISTING TURF, ADJUST IRRIGATION HEADS AND PIPING AS NECESSARY.
(7) CONSTRUCT TRUNCATED DOMES PER DETAIL 6/G5.
(8) CONSTRUCT CONCRETE GUTTER, THICKNESS TO MATCH EXISTING (MINIMUM 4-INCHES), USING CONCRETE MIX 560-C-3250. CONSTRUCT 6" OF CRUSHED AGGREGATE BASE UNDER CONCRETE, COMPACTED TO MINIMUM 95% RELATIVE DENSITY. DOWEL ENDS OF NEW GUTTER INTO EXISTING PER DETAIL EE ON C3.00.

RECOMMENDATIONS AND CONCLUSIONS OF GEOTECHNICAL REPORT No. 23-147-PW, DATED MAY 12, 2023 BY PETRA GEOSCIENCES INC. SHALL BE THOROUGHLY COMPLIED WITH. WHERE CONFLICTING INFORMATION BETWEEN THESE PLANS AND THE MENTIONED REPORT OCCUR, NOTIFY THE OWNER.

GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

EARTHWORK NOTICE TO CONTRACTOR: NO EARTHWORK ANALYSIS HAS BEEN COMPLETED WITH RESPECT TO VOLUMES OF SOILS TO BE EXCAVATED, PLACED, OR IMPORTED IN ORDER TO PROVIDE THE FINISHED GRADES SHOWN ON THE PLANS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING THE EARTHWORK QUANTITIES NECESSARY TO COMPLETE THE PROJECT.

CONSTRUCTION STORM WATER NOTE:
GRADING WORK ASSOCIATED WITH THIS PROJECT WILL DISTURB LESS THAN 1 ACRE OF SOIL AND THUS SHALL NOT BE SUBJECT TO COMPLY WITH THE NPDES STORMWATER CONSTRUCTION GENERAL PERMIT 2009-0009-DWQ.

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DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43

KEY PLAN
NORTH: PLAN

Consultant

Architect

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WESTMINSTER SCHOOL DISTRICT

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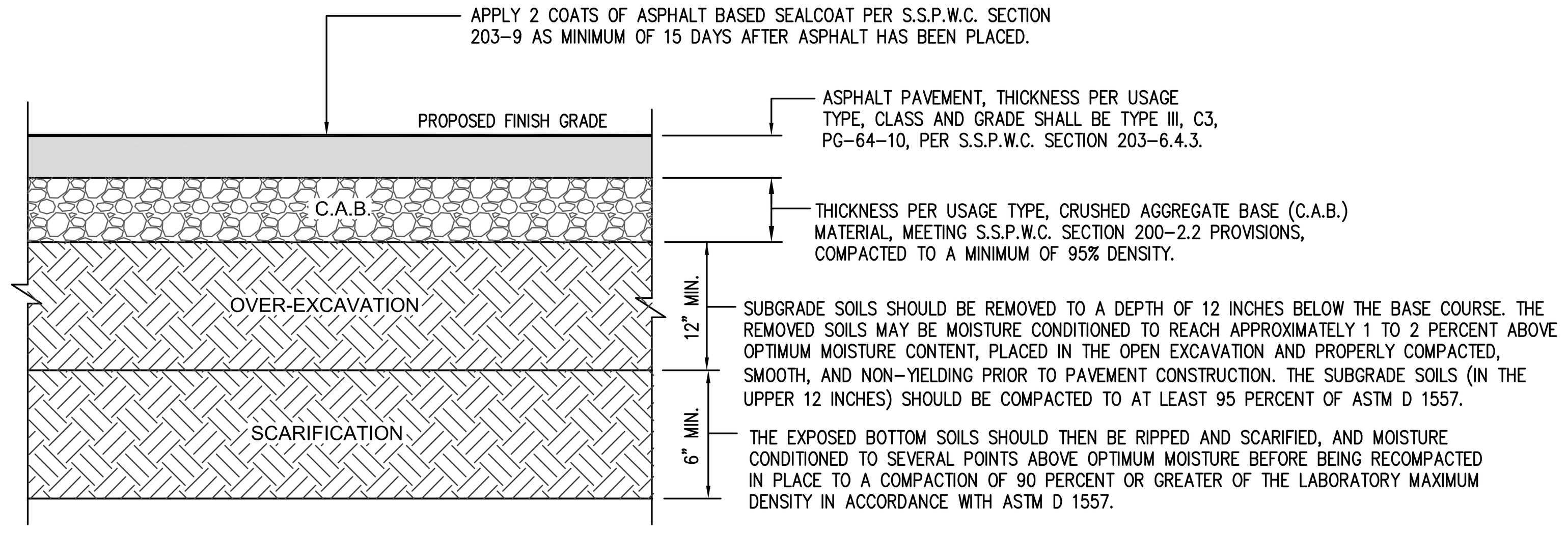
GRADING PLAN

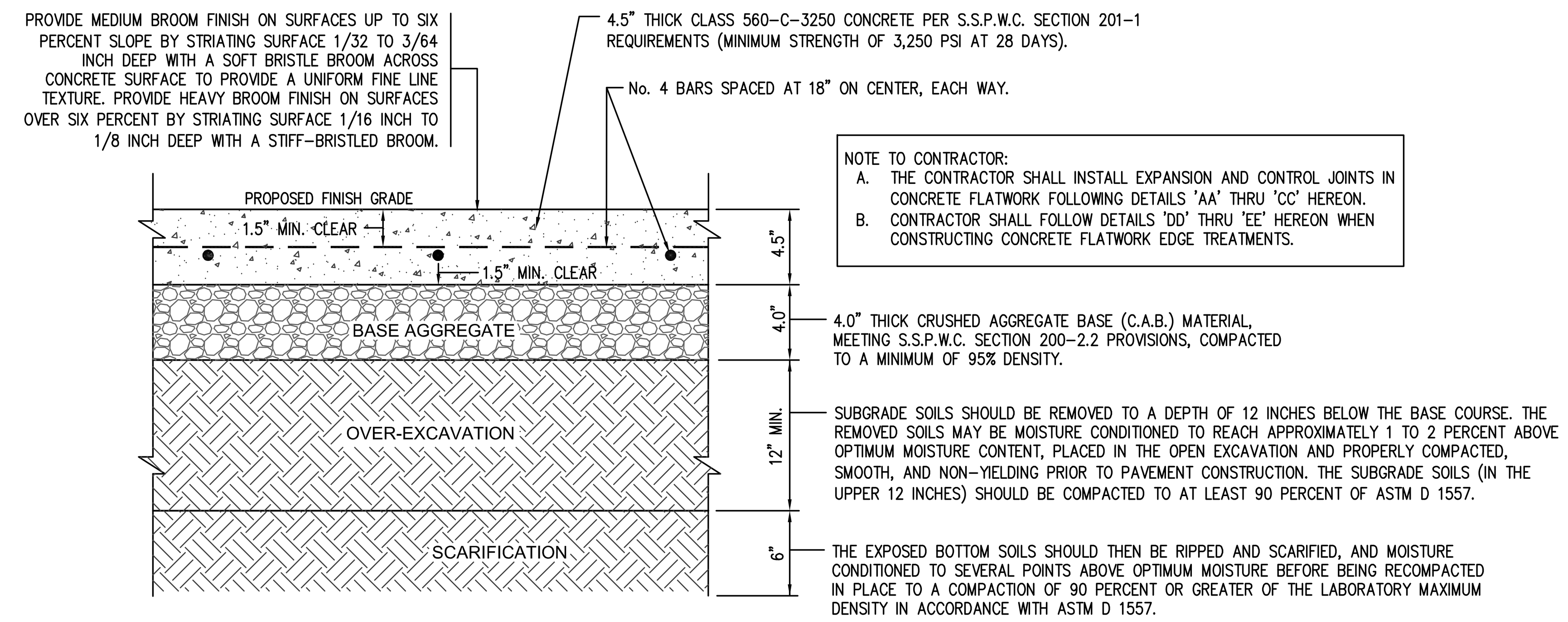
C2.00

USAGE TYPE	TABLE 1 ASPHALT PAVEMENT STRUCTURAL SECTION
(1) FIRE LANE	4.0" THICK ASPHALT PAVEMENT OVER 3.0" THICK BASE OVER PREPARED SUBGRADE PER DETAIL BELOW (THIS COMPLIES WITH A TRAFFIC INDEX OF 6.0 PER GEOTECHNICAL REPORT).
(1A) PLAYGROUND	2.0" THICK ASPHALT PAVEMENT OVER 3.0" THICK BASE OVER PREPARED SUBGRADE PER DETAIL BELOW.
(1B) PARKING LOT	3.0" THICK ASPHALT PAVEMENT OVER 3.0" THICK BASE OVER PREPARED SUBGRADE PER DETAIL BELOW (THIS COMPLIES WITH A TRAFFIC INDEX OF 5.0 PER GEOTECHNICAL REPORT).



FLOOD TEST NOTE:

BEFORE ACCEPTANCE, ALL NEW ASPHALT SHALL BE WATER TESTED TO ENSURE PROPER DRAINAGE AS DIRECTED BY THE INSPECTOR. THE CONTRACTOR SHALL PROVIDE WATER FOR THIS PURPOSE. THE FLOODING SHALL BE DONE BY WATER TANK TRUCK. DEPRESSIONS WHERE THE WATER PONDS TO A DEPTH OF MORE THAN 0.01 FOOT SHALL BE FILLED WITH TYPE E ASPHALT MIX OR THE SLOPE CORRECTED TO PROVIDE PROPER DRAINAGE. THE EDGES OF THE FILL SHALL BE FEATHERED AND SMOOTHED SO THAT THE JOINT BETWEEN THE FILL AND THE ORIGINAL SURFACE IS INVISIBLE. PRACTICAL FIELD MEASUREMENT: 0.01 FOOT = TWO QUARTERS STACKED. NO STANDING WATER SHALL REMAIN AFTER 60 MINUTES ON A 70 DEGREE F (OR WARMER) DAY. INSTALL FIRST COAT OF SEAL COAT ON ASPHALT BEFORE FLOOD TESTING OCCURS.

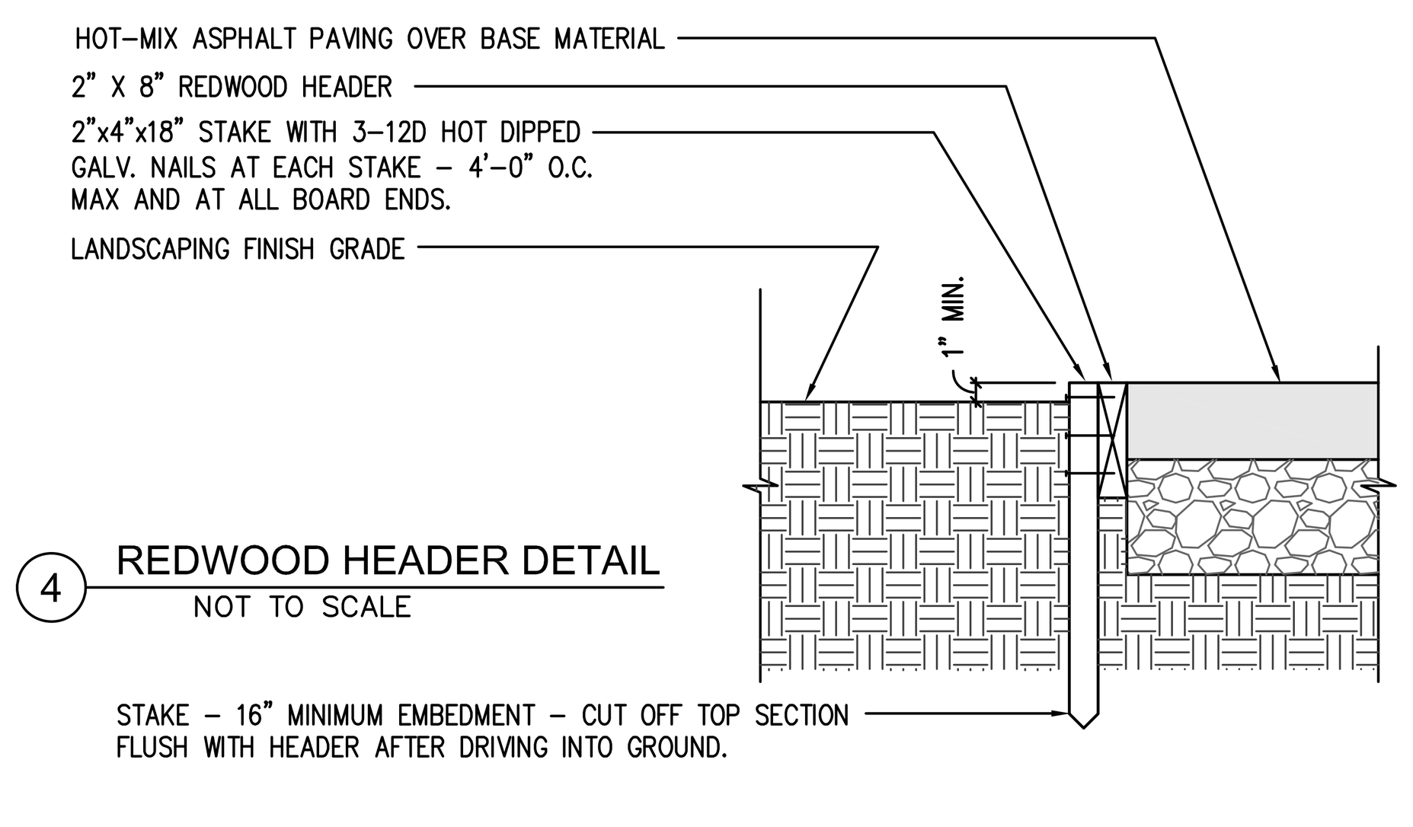


NOTE TO CONTRACTOR:
A. THE CONTRACTOR SHALL INSTALL EXPANSION AND CONTROL JOINTS IN CONCRETE FLATWORK FOLLOWING DETAILS "AA" THRU "CC" HEREON.
B. CONTRACTOR SHALL FOLLOW DETAILS "DD" THRU "EE" HEREON WHEN CONSTRUCTING CONCRETE FLATWORK EDGE TREATMENTS.

(2) CONCRETE PAVEMENT DETAIL
NOT TO SCALE

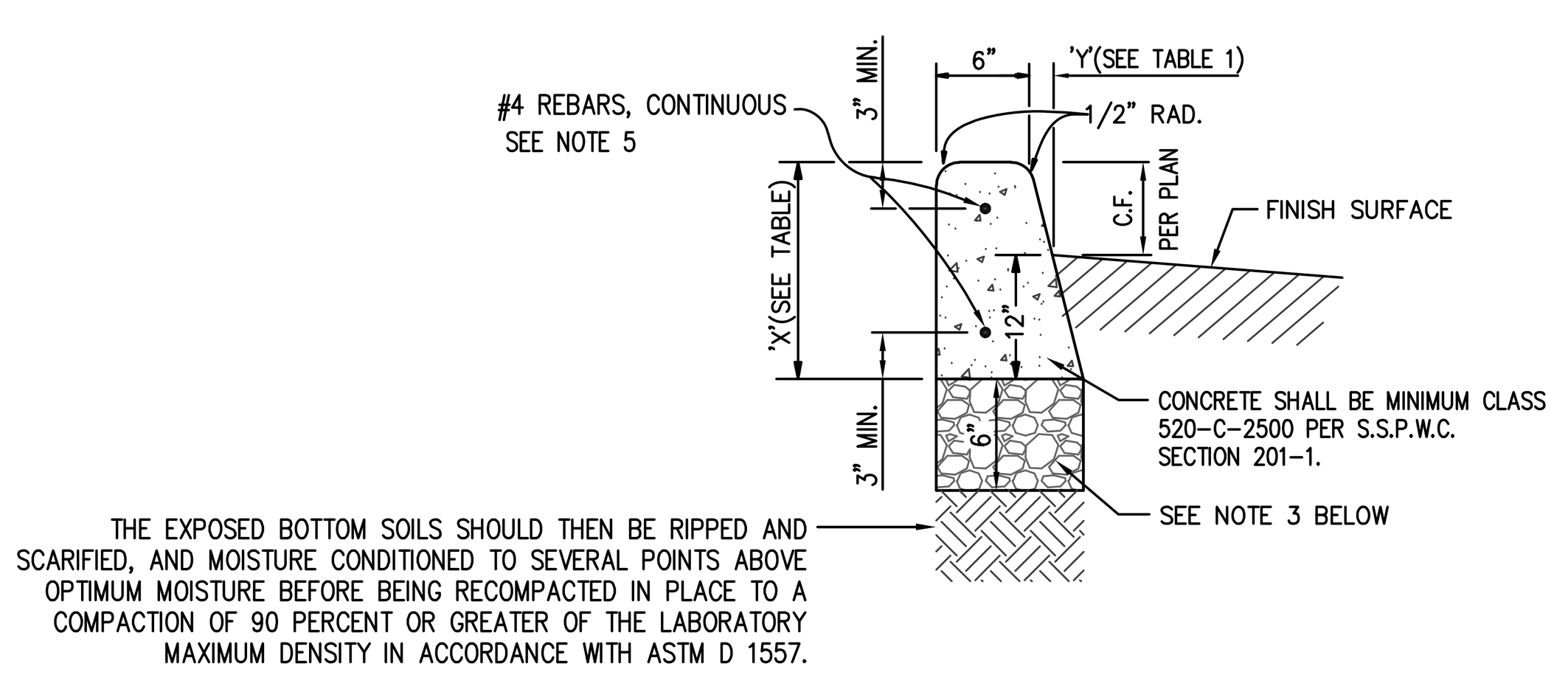
FLOOD TEST NOTE:

BEFORE ACCEPTANCE, ALL NEW CONCRETE SHALL BE WATER TESTED TO ENSURE PROPER DRAINAGE AS DIRECTED BY THE INSPECTOR. THE CONTRACTOR SHALL PROVIDE WATER FOR THIS PURPOSE. THE FLOODING SHALL BE DONE BY WATER TANK TRUCK. DEPRESSIONS WHERE THE WATER PONDS TO A DEPTH OF MORE THAN 1/8-INCH SHALL BE FILLED OR THE SLOPE CORRECTED TO PROVIDE PROPER DRAINAGE. THE EDGES OF THE FILL SHALL BE FEATHERED AND SMOOTHED SO THAT THE JOINT BETWEEN THE FILL AND THE ORIGINAL SURFACE IS INVISIBLE. NO STANDING WATER SHALL REMAIN AFTER 60 MINUTES ON A 70 DEGREE F (OR WARMER) DAY.



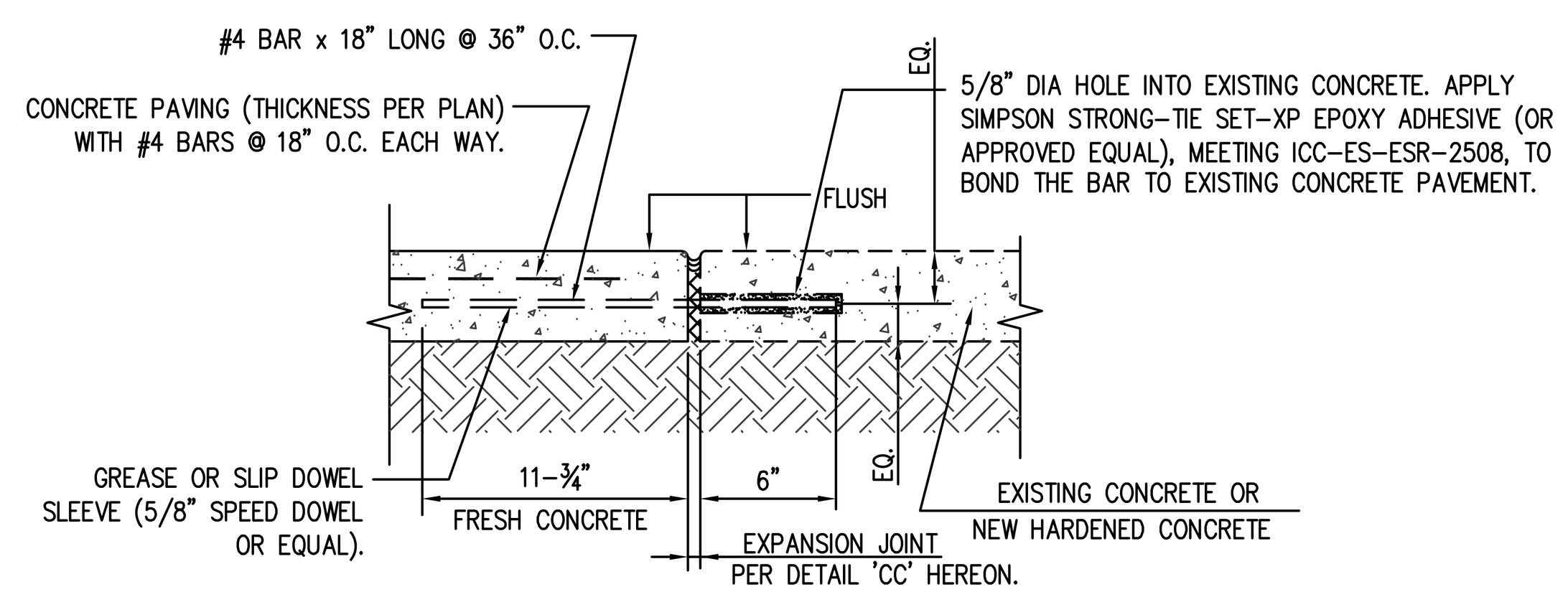
(4) REDWOOD HEADER DETAIL
NOT TO SCALE

CURB FACE	0"	2"	4"	5"	6"	8"
"X"	12"	14"	16"	17"	18"	20"
"Y"	0"	0.5"	1"	1.25"	1.5"	2"



(3) CONCRETE CURB DETAIL
NOT TO SCALE

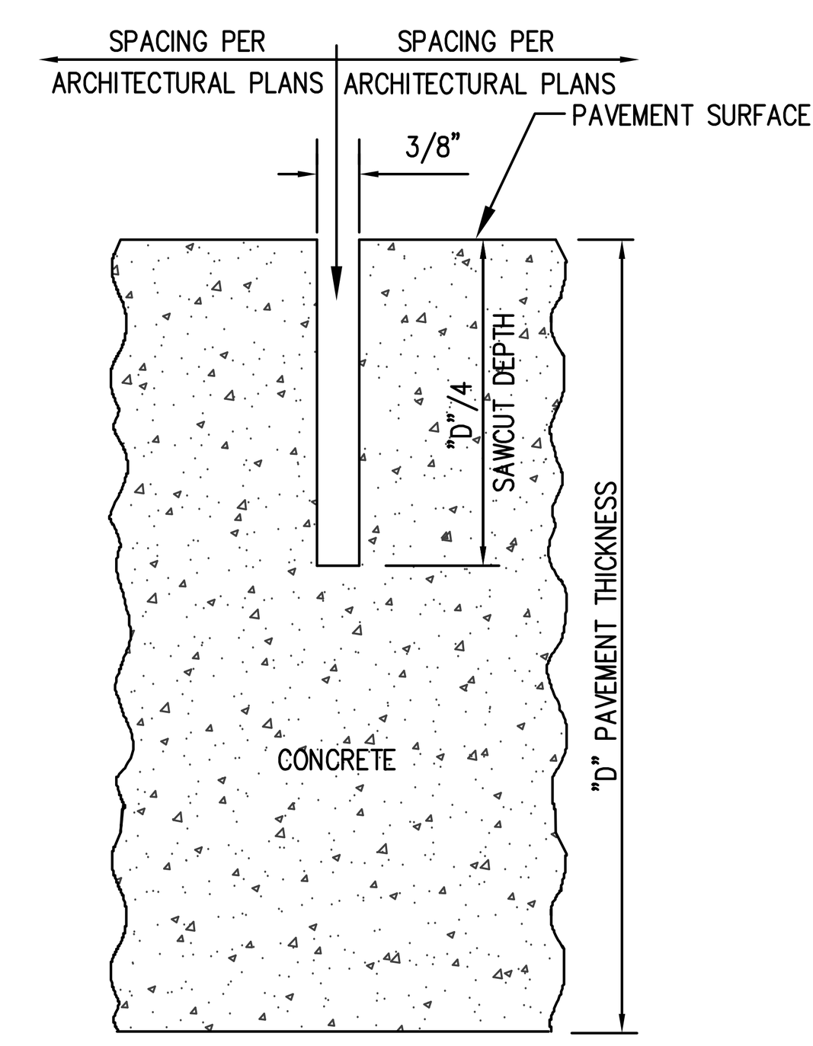
CURB GENERAL NOTES:
1. ALL EXPOSED EDGES SHALL HAVE A 1/2" RADIUS.
2. CONTROL JOINTS SHALL BE PLACED IN CURBING AT REGULAR INTERVALS OF 10'. EXPANSION JOINTS AT 30' INTERVALS, AND AT DRIVE APPROACHES, B.C.'S, E.C.'S, CROSS GUTTERS AND CATCH BASIN TRANSITIONS PER JOINT DETAILS HEREON.
3. A 6" THICK LAYER OF CRUSHED AGGREGATE BASE SHALL BE PLACED UNDER ALL CURB. MINIMUM COMPACTION OF 95% RELATIVE DENSITY UNLESS WAIVED BY CIVIL ENGINEER.
4. CONCRETE CURB SHALL BE MINIMUM CLASS 560-C-3250 PER S.S.P.W.C. SECTION 201-1.
5. PLACE NO. 4 REBARS 3" MINIMUM FROM TOP AND BOTTOM OF CURB.



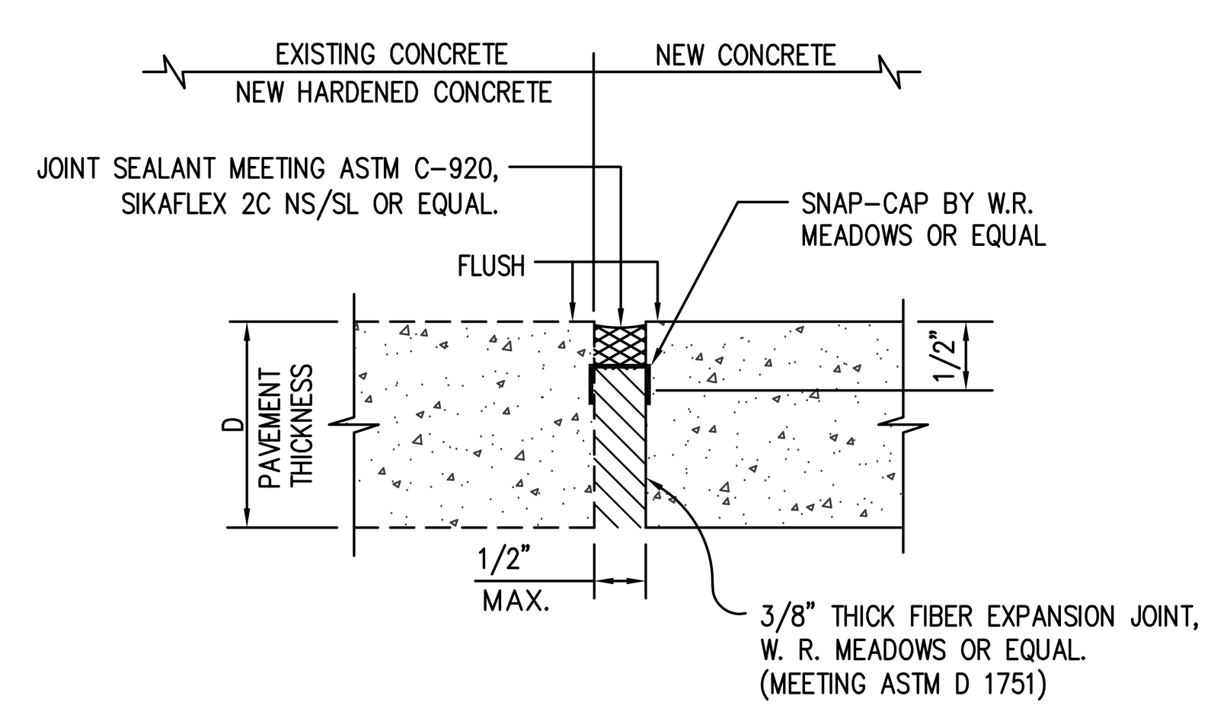
NOTE: 1. VERTICAL CHANGE IN ELEVATION ALONG ACCESSIBLE PATH OF TRAVEL CANNOT EXCEED 1/4" PER CBC 11B-303.2

2. LEVEL CHANGE BETWEEN 1/4"-1/2" MUST BE BEVELED AT 1:2 MAX PER CBC 11B-303.3

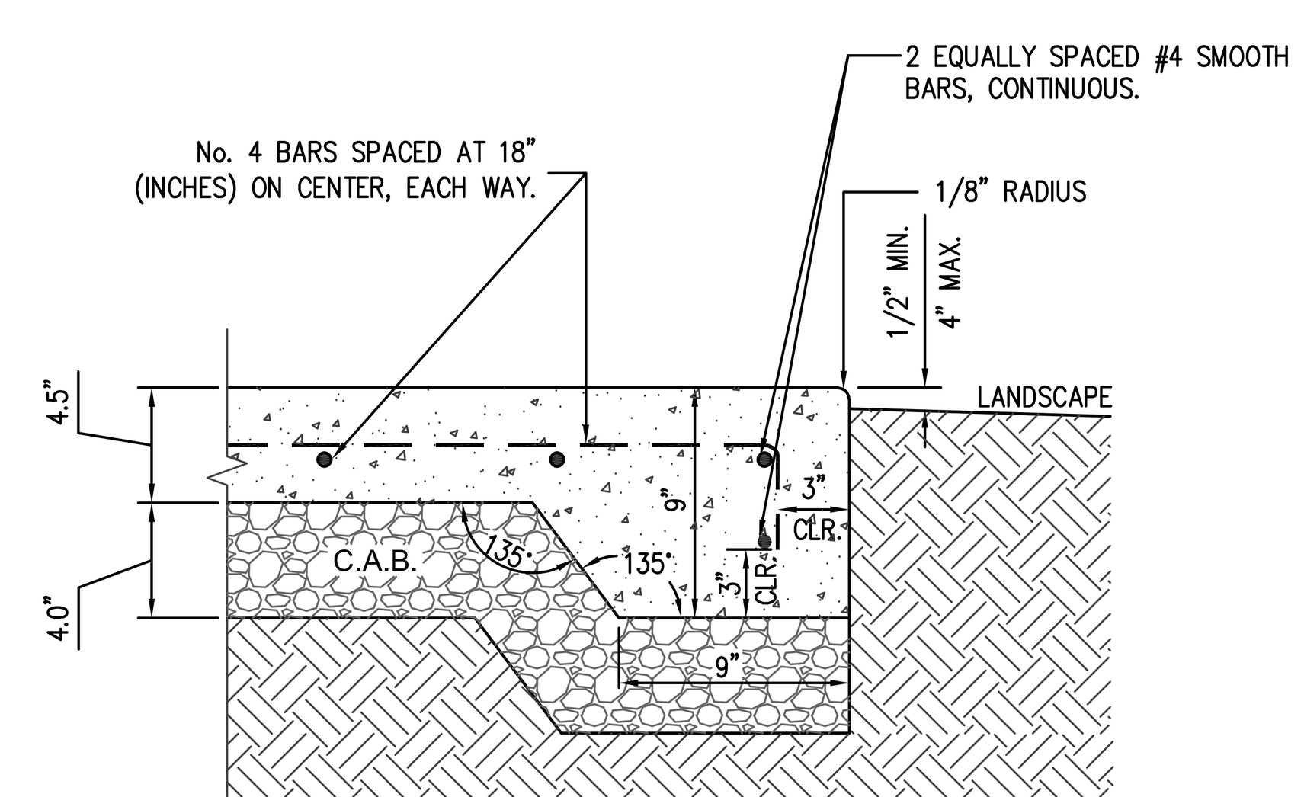
(AA) EXPANSION JOINT (E.J.) WITH REBAR
NOT TO SCALE



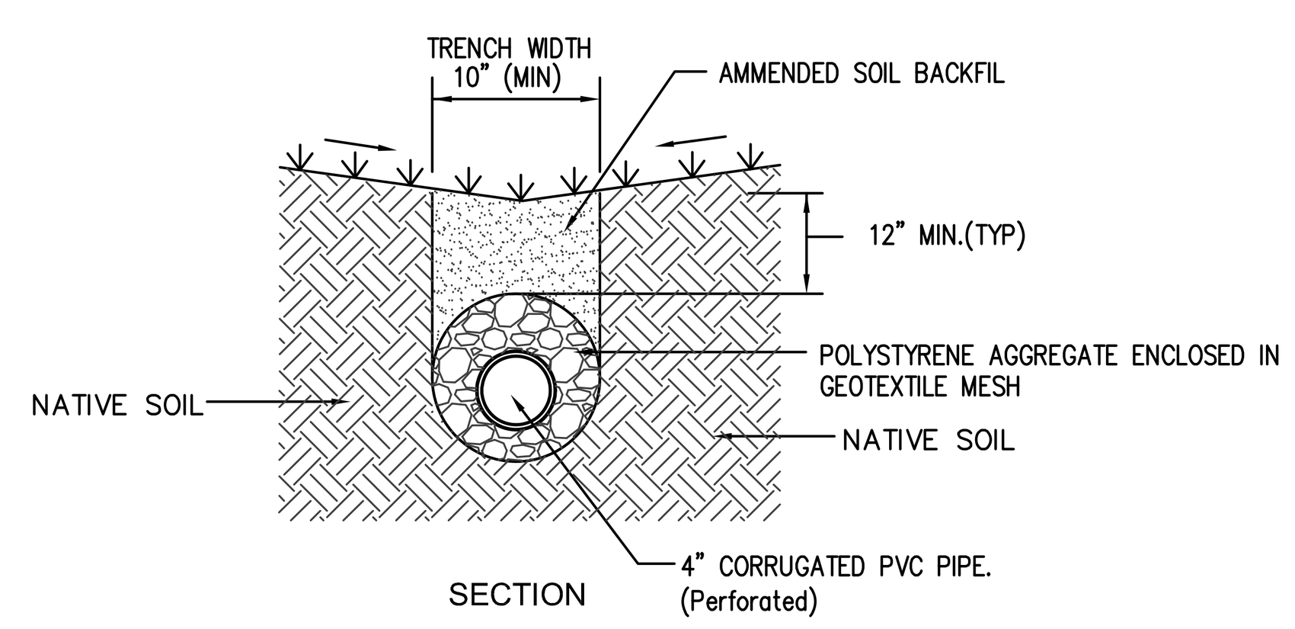
(BB) CONTROL JOINT (C.J.)
NOT TO SCALE



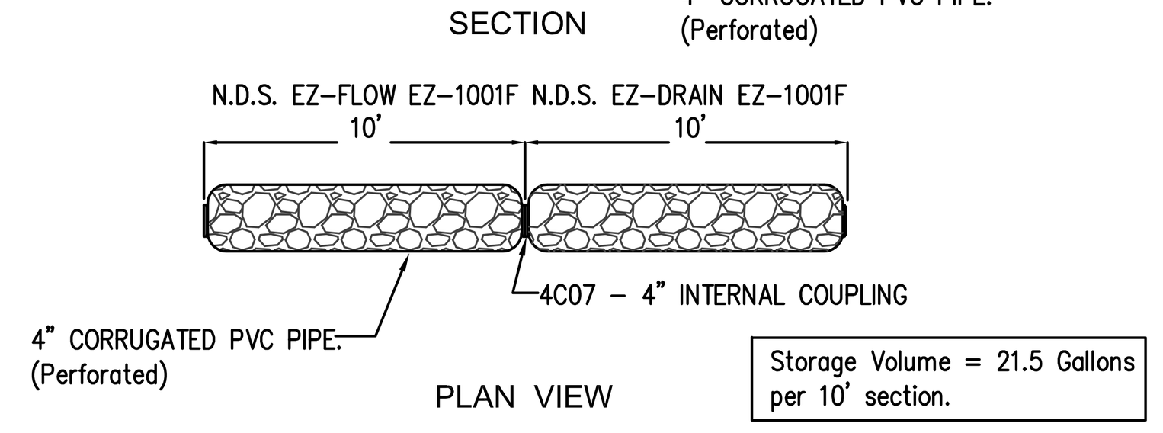
(CC) EXPANSION JOINT (E.J.)
NOT TO SCALE



(DD) EDGE OF CONCRETE SLAB DETAIL
WHERE CONCRETE MEETS SOFTSCAPE
NOT TO SCALE



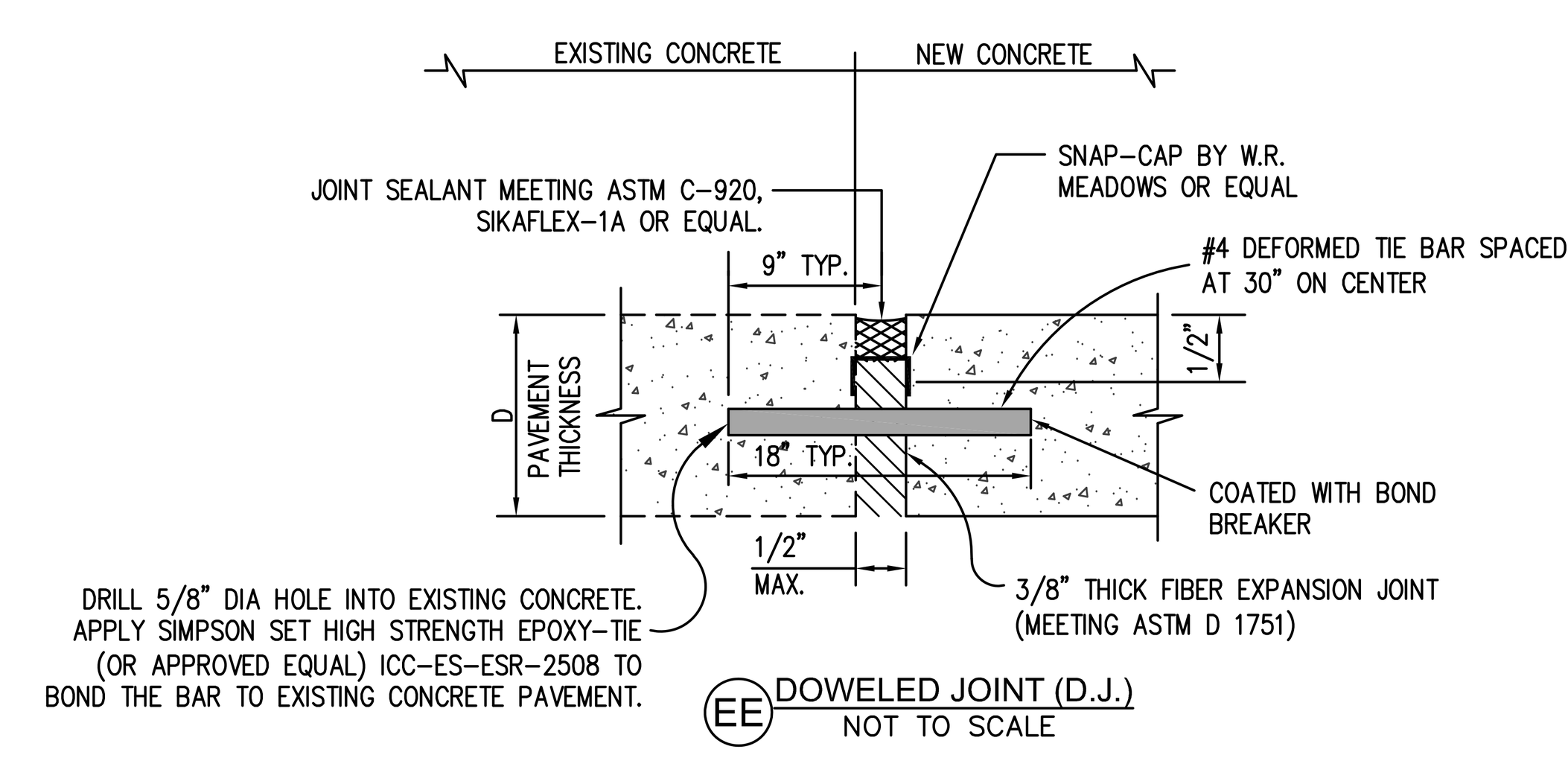
SECTION



PLAN VIEW

Storage Volume = 21.5 Gallons per 10' section.

(5) SUBDRAIN DETAIL
N.D.S. PRODUCTS EZ-FLOW
(NOT TO SCALE)



(EE) DOWELED JOINT (D.J.)
NOT TO SCALE

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FINLEY ES HVAC UPGRADE & MODERNIZATION

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DSA SUBMITTAL
DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43

KEY PLAN
NORTH: PLAN

Consultant

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT

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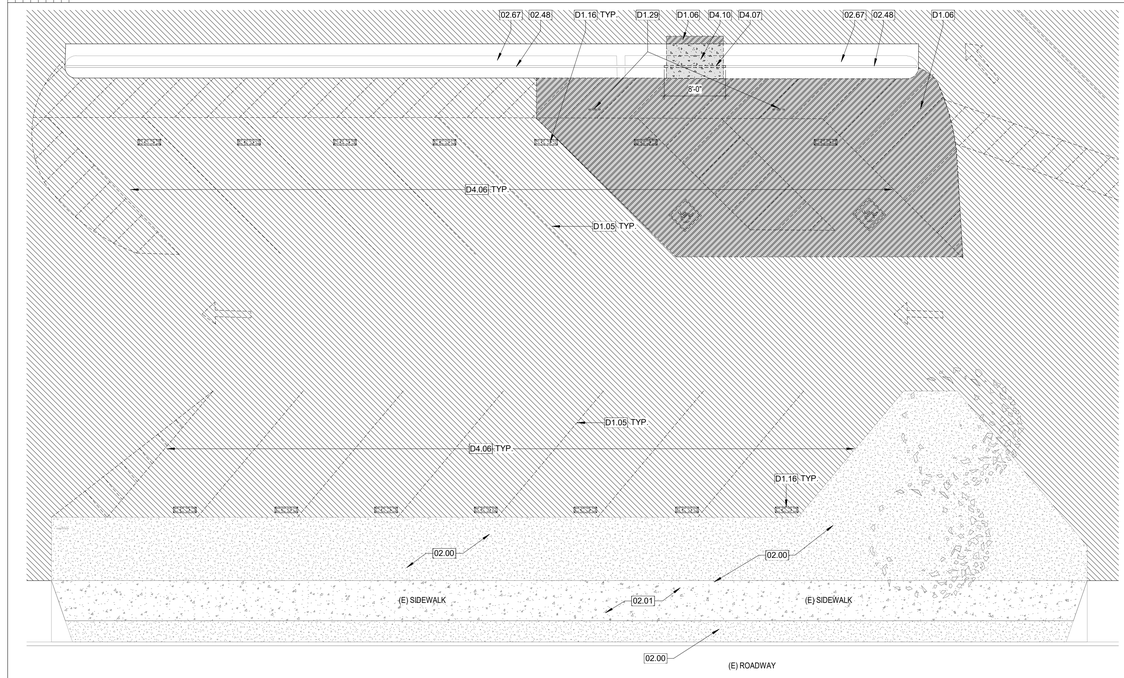
DETAIL SHEET

C3.00

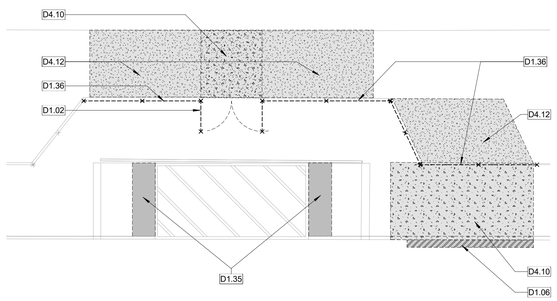
D0.1 - SITE DEMOLITION PLAN

0" 1"



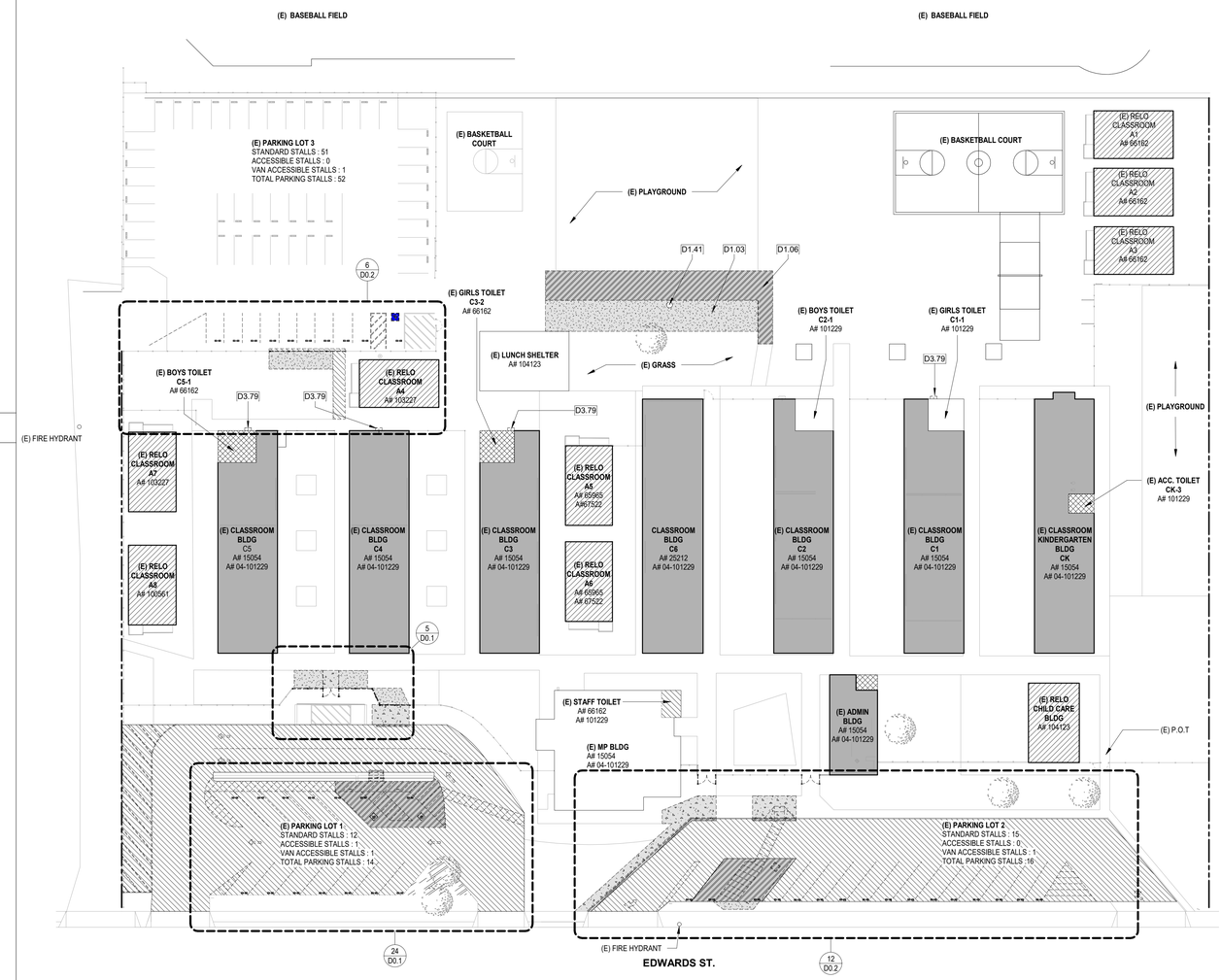
24 PARKING LOT 1 - ENLARGED SITE DEMO PLAN

1/8" = 1'-0"



5 ENLG SITE DEMO PLAN - ENTRY

1/8" = 1'-0"



4 SITE DEMOLITION PLAN

1" = 30'-0"

NORTH

SITE DEMOLITION KEYED NOTES

	DESCRIPTION
02.00	(E) TURF TO REMAIN
02.01	(E) CONCRETE TO REMAIN
02.48	(E) METAL FENCE AND POSTS TO REMAIN. PROTECT IN PLACE. PREPARE FOR (N) PAINT FINISH
02.67	(E) CONCRETE CURB TO REMAIN
D1.02	REMOVE (E) DOUBLE-LEAF CHAIN LINK GATE AND PREPARE FOR (N) DOUBLE-LEAF CHAIN LINK GATE W/ PANIC HARDWARE PER ACCESSIBILITY SITE PLAN
D1.03	REMOVE PORTION OF (E) TURF. PREPARE FOR NEW ASPHALT PAVING PER CIVIL
D1.05	REMOVE (E) STRIPING AS INDICATED
D1.06	REMOVE (E) ASPHALT IN THE HATCHED AREA. REF. CIVIL DWGS.
D1.16	REMOVE (E) CONCRETE WHEEL STOP
D1.29	(E) ACCESSIBLE PARKING SIGN TO BE REMOVED
D1.35	PREPARE (E) CONCRETE FOR (N) TRUNCATED DOME MAT
D1.36	REMOVE PORTION OF (E) 6'-0"H GALV STEEL CHAIN LINK FENCE, DISPOSE
D1.41	(E) LIGHT POLE W/ CONCRETE BASE TO BE REMOVED
D3.79	REMOVE (E) DRINKING FOUNTAINS. PREPARE FOR NEW DRINKING FOUNTAIN
D4.10	REMOVE AND DISPOSE OF (E) CONCRETE PAVEMENT AS INDICATED PER CIVIL
D4.12	PREPARE (E) TURF FOR NEW CONC PAVEMENT PER CIVIL

SITE DEMOLITION LEGEND

- (E) PATH OF TRAVEL PER A#66162, A#04-102554, A#04-104123, A#04-100561
- PROPERTY LINE
- (E) BUILDING FIRE ALARM SCOPE ONLY
- BUILDING TO BE REMODELED
- ACCESSIBLE RESTROOM TO BE PROVIDED AS PART OF THE CONTRACT
  RR = GENDER NEUTRAL RESTROOM
  B = BOYS
  G = GIRLS
  S = STAFF
- AREAS OF MODIFICATION
- AREA OF (E) ASPHALT TO BE PREPARED FOR (N) ASPHALT SLURRY COAT
- AREA OF (E) TURF TO BE PREPARED FOR (N) PAVING
- AREA OF (E) ASPHALT TO BE REMOVED & REPLACED PER CIVIL
- AREA OF (E) CONCRETE PAVING TO BE REMOVED, PREPARE FOR (N) CONCRETE PAVING.

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KEY PLAN
NORTH: PLAN

Consultant

Architect

LICENSED ARCHITECT
Yong Yoo
No. C-31162
REN. 10-31-2023
STATE OF CALIFORNIA

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
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SITE DEMOLITION PLAN

D0.1

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5/30/2023 10:18:02 AM

D0.2 - SITE DEMOLITION PLAN

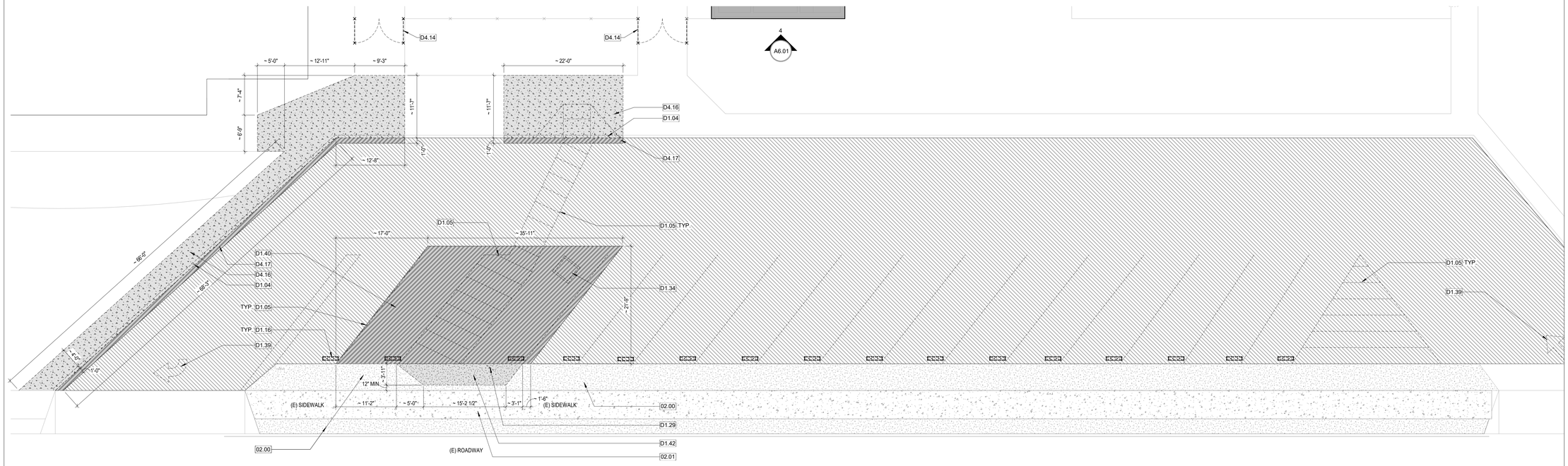
0" 1"

SITE DEMOLITION LEGEND

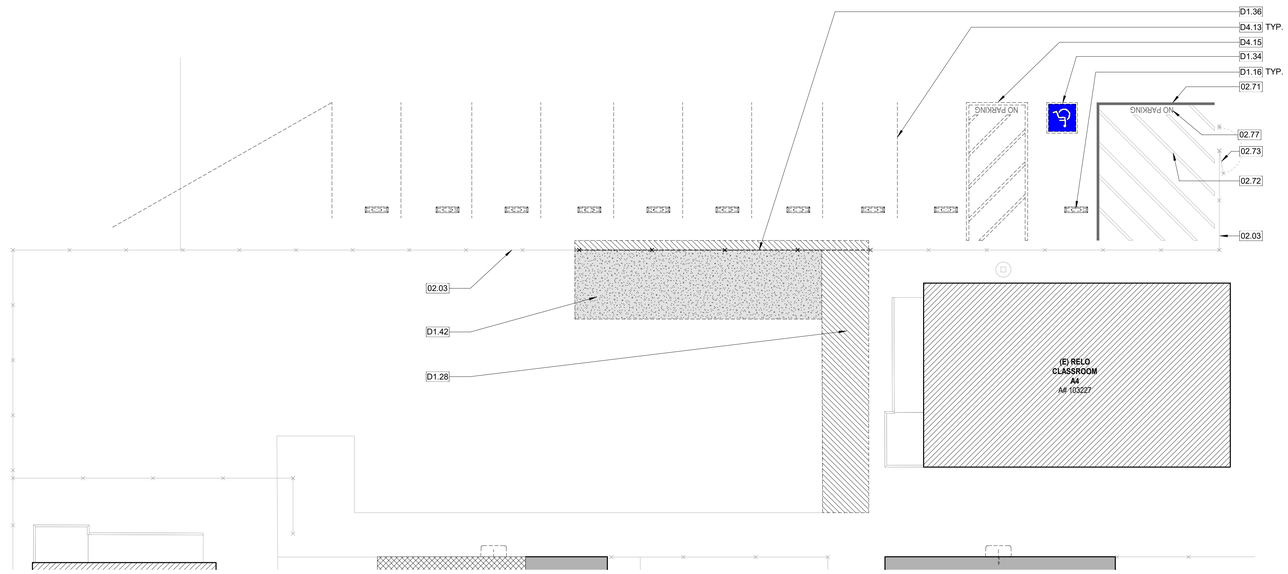
- BUILDING TO BE REMODELED
- (E) BUILDING FIRE ALARM SCOPE ONLY
- AREA OF (E) ASPHALT PAVING TO BE PREPARED FOR (N) SLURRY COAT
- AREA OF (E) TURF TO BE PREPARED FOR (N) ASPHALT PAVING
- AREA OF (E) CONCRETE PAVING TO BE REMOVED
- AREA OF (E) ASPHALT PAVING TO BE REMOVED

SITE DEMOLITION KEYED NOTES

	DESCRIPTION
02.00	(E) TURF TO REMAIN
02.01	(E) CONCRETE TO REMAIN
02.03	(E) 6'-0"H GALV STEEL CHAIN LINK FENCE TO REMAIN
02.71	(E) 4" WIDE PAINTED BLUE STRIPING TO REMAIN
02.72	(E) 4" WIDE PAINTED WHITE STRIPING @ 36" OC TO REMAIN
02.73	(E) CHAINLINK GATE TO REMAIN
02.77	(E) 12" HIGH MIN. LETTERS IN WHITE PAINT, READING 'NO PARKING': NO DIAGONAL STRIPING THROUGH TEXT
D1.04	REMOVE AND DISPOSE OF (E) CONCRETE CURB AS INDICATED
D1.05	REMOVE (E) STRIPING AS INDICATED
D1.16	REMOVE (E) CONCRETE WHEEL STOP
D1.28	(E) ASPHALT AND PARKING STRIPING TO BE PREPARED FOR (N) ASPHALT SLURRY COAT
D1.29	(E) ACCESSIBLE PARKING SIGN TO BE REMOVED
D1.34	REMOVE (E) PAINTED INTERNATIONAL SYMBOL OF ACCESSIBILITY
D1.36	REMOVE PORTION OF (E) 6'-0"H GALV STEEL CHAIN LINK FENCE, DISPOSE
D1.39	REMOVE (E) PAINTED WHITE DRIVE AISLE DIRECTIONAL SIGNAGE
D1.40	REMOVE AND DISPOSE OF (E) ASPHALT PAVEMENT & BASE MATERIAL AS INDICATED, PREPARE FOR (N) ASPHALT PAVEMENT
D4.13	REMOVE (E) 4" WIDE PAINTED WHITE STRIPING
D4.14	REMOVE (E) DOUBLE LEAF METAL GATE AND DISPOSE, PREPARE FOR (N) DOUBLE LEAF METAL GATE
D4.15	REMOVE (E) ACCESSIBLE AISLE STRIPING AND TEXT
D4.16	REMOVE AND DISPOSE OF (E) CONCRETE PAVEMENT W/ REBAR



12 PARKING LOT 2 - ENLARGED SITE DEMO PLAN
1/8" = 1'-0"



6 PRKG LOT 3 - ENLARGED SITE DEMO PLAN
1/8" = 1'-0"

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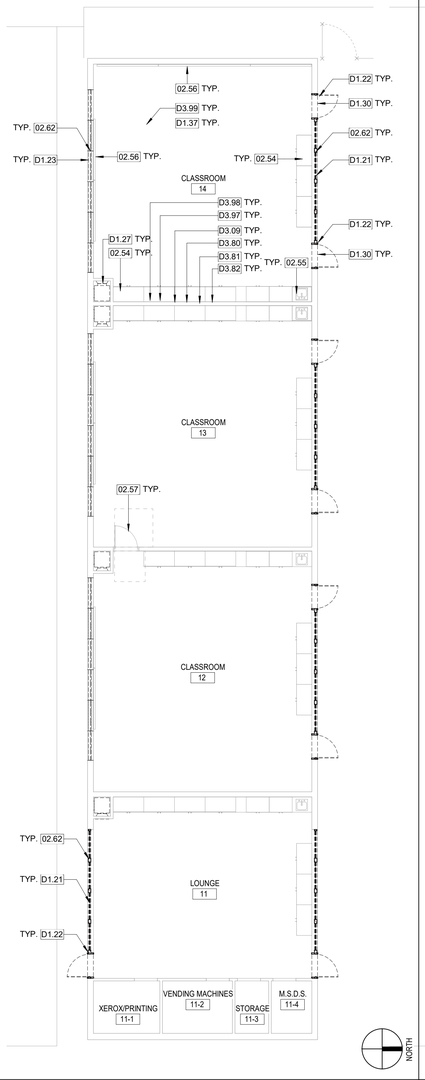
SITE DEMOLITION PLAN

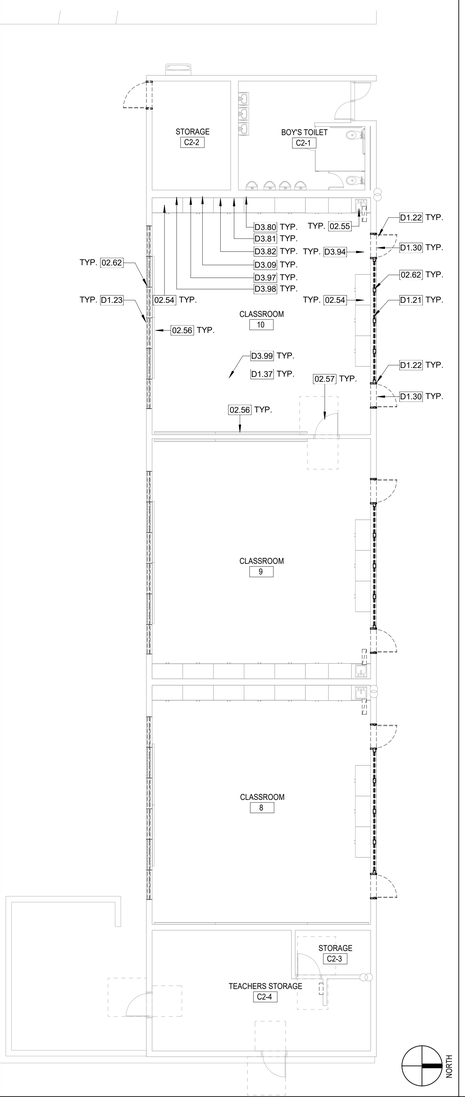
D0.2

0" 1"

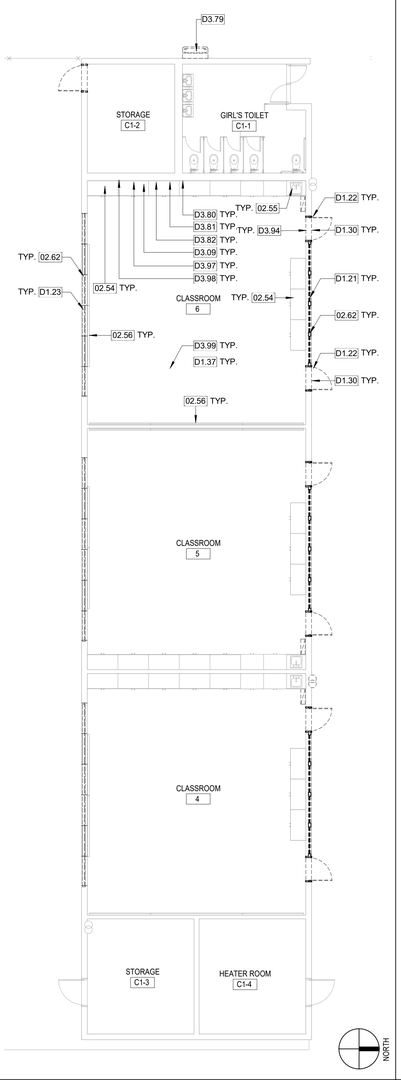
D1.1 - DEMO FLOOR PLAN BLDG CK, C1,C2,C6 & ADMIN



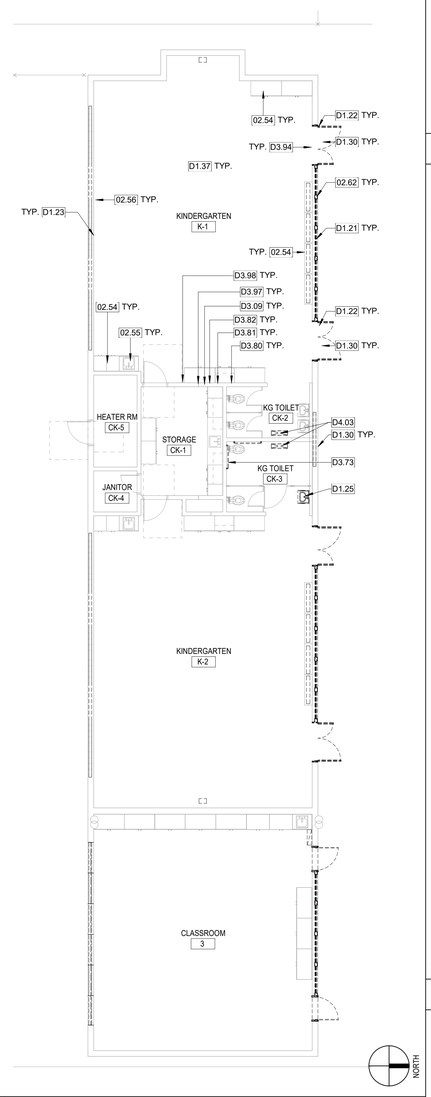
5 DEMO FLOOR PLAN - BUILDING C6
1/8" = 1'-0"



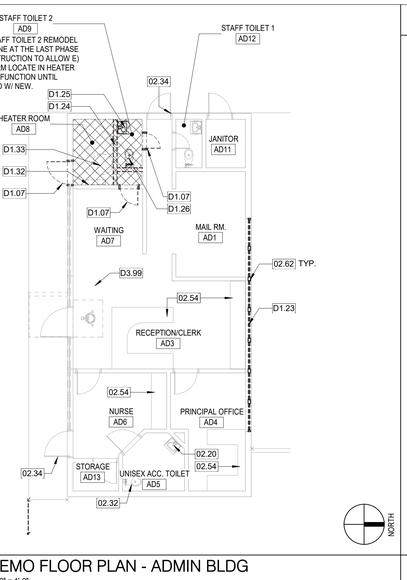
4 DEMO FLOOR PLAN - BUILDING C2
1/8" = 1'-0"



3 DEMO FLOOR PLAN - BUILDING C1
1/8" = 1'-0"



2 DEMO FLOOR PLAN - BUILDING CK
1/8" = 1'-0"



20 DEMO FLOOR PLAN - ADMIN BLDG
1/8" = 1'-0"

KEYNOTE LEGEND

#	DESCRIPTION
02.20	(E) LAVATORY TO REMAIN
02.32	(E) FLOOR MOUNTED WATER CLOSET TO REMAIN
02.34	(E) H.M. DOOR FRAME & DOOR PANEL TO REMAIN
02.54	(E) CASEWORK TO REMAIN, RE-PAINT & PROTECT IN PLACE
02.55	(E) ACCESSIBLE SINK TO REMAIN. PROTECT IN PLACE
02.56	(E) MARKER/TACKBOARD TO BE REMOVED & REPLACED WITH NEW PER DETAIL 5&6/A8.02
02.57	(E) DOOR FRAME & PANEL TO REMAIN. PROTECT IN PLACE.
02.62	(E) WINDOW MULLION/COLUMN TUBE STEEL TO REMAIN, PROTECT IN PLACE, WHERE OCCURS

DEMOLITION KEYNOTES

#	DESCRIPTION
D1.07	(E) DOOR TO BE REMOVED AND DISPOSED
D1.21	(E) ALUMINUM FRAME & GLAZING STOREFRONT SYSTEM TO BE REMOVED AND DISPOSED
D1.22	(E) HM DOOR FRAME & (E) DOOR PANEL TO BE REMOVED AND DISPOSED
D1.23	(E) ALUMINUM FRAME & GLAZING WINDOW SYSTEM TO BE REMOVED AND DISPOSED
D1.24	(E) INTERIOR PARTITION TO BE REMOVED
D1.25	(E) LAVATORY TO BE REMOVED AND DISPOSED, PATCH AND REPLACE WALL FINISH MATERIALS TO MATCH EXISTING
D1.26	(E) WATERCLOSET TO BE REMOVED AND DISPOSED, PATCH AND REPLACE FLOOR AND WALL FINISH MATERIALS TO MATCH EXISTING
D1.27	(E) VERTICAL DUCT CHASE, (E) LOUVERED VENT TO BE REMOVED, DISPOSED & COVERED WITH SIMILAR FRAMING & DRYWALL MATERIAL. (E) MECH DUCT TO BE CAPPED & SEALED
D1.30	(E) TRANSOM WINDOW TO BE REMOVED AND DISPOSED
D1.32	(E) FIRE ALARM PANEL TO BE REMOVED, DISPOSED & REPLACED DURING PHASED CONSTRUCTION OF STAFF TOILET 2. SEE FIRE ALARM DWG.
D1.33	(E) WATER HEATER TO BE REMOVED & DISPOSED DURING PHASED CONSTRUCTION OF STAFF TOILET 2. SEE PLUMBING DWG.
D1.37	(E) MARKER/TACK BOARD TO BE REMOVED AND DISPOSED. WHERE OCCURS
D3.09	(E) GLUE-ON/STAPLED ACOUSTIC TILE TO BE DEMOLISHED AND DISPOSED, INCLUDING SUBSTRATES AND (E) 2"X3" WOOD STRIPPING. WHERE OCCURS
D3.73	REMOVE (E) GRAB BAR AND RELOCATE PER ELEVATION, PATCH AND REPLACE WALL FINISH MATERIALS TO MATCH EXISTING
D3.79	REMOVE (E) DRINKING FOUNTAINS, PREPARE FOR NEW DRINKING FOUNTAIN
D3.80	(E) TELEVISION, PROJECTOR & BRACKET TO BE REMOVED AND DISPOSED. WHERE OCCURS.
D3.81	(E) ANALOG WALL CLOCK TO BE REMOVED AND DISPOSED. WHERE OCCURS.
D3.82	(E) AUDIO SPEAKER TO BE REMOVED AND DISPOSED. WHERE OCCURS.
D3.94	(E) EXIT SIGNAGE TO BE REMOVED, DISPOSED AND REPLACED
D3.97	(E) ELECTRICAL OUTLETS, WIREMOLDS & RACEWAYS TO BE REMOVED, PER ELECTRICAL PLAN, WHERE OCCURS.
D3.98	REMOVE (E) WALL PANELS AND REPLACE WITH NEW PER SPECS SECTION 10 11 00, WHERE OCCURS.
D3.99	REMOVE & DISPOSE OF EXISTING ABOVE CEILING ROOF INSULATION WHERE OCCURS
D4.03	(E) DUCT OPENINGS IN SLAB TO BE REMOVED AND IN-FILLED WITH CONCRETE WHERE OCCURS

DEMOLITION LEGEND

- EXISTING NON-BEARING WALL TO BE REMOVED
- DOOR TO BE REMOVED
- WINDOW TO BE REMOVED (SEE SCHEDULE)
- DEMO ALL (E) WALL FINISH, FLOOR SLAB, DUCTS, PIPES, CONDUITS & FIXTURES, U.N.O.
- (E) DUCT OPENINGS IN SLAB TO BE REMOVED AND IN-FILLED WITH CONCRETE WHERE OCCURS. PER DETAIL 4/SD1

GENERAL DEMOLITION NOTES

1. DEMOLITION PLANS INDICATE SOME OF THE SCOPE-OF-WORK INVOLVED FOR THE DEMOLITION PHASE OF THIS PROJECT. CONTRACTOR SHALL REVIEW ALL SHEETS FOR ADDITIONAL DEMOLITION SCOPE.
2. CONTRACTOR SHALL VERIFY EXISTING SITE AND BUILDING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO DEMOLITION ACTIVITIES AND WORK.
3. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING. PRIOR TO COMMENCING WITH WORK.
4. CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER OF ANY POSSIBLE ASBESTOS CONTAINING MATERIALS DISCOVERED BEFORE PROCEEDING WITH WORK, PROTECT INTERIOR CONSTRUCTION TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
5. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS BEFORE COMMENCING WORK.
6. CONTRACTOR SHALL NOT SCALE DRAWINGS.
7. ALL FURNITURE WILL BE REMOVED OR RELOCATED BY THE OWNER AS NECESSARY PRIOR TO THE DEMOLITION WORK OF THIS PROJECT. CONTRACTOR SHALL COORDINATE WITH OWNER AS REQUIRED.
8. REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION TO REMAIN, THE CONTRACTOR SHALL REPAIR THE DAMAGE TO MATCH EXISTING AND OR ADJACENT CONSTRUCTION.
9. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO DEMOLITION ACTIVITIES AND WORK.
10. NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE DEEMED SALVAGEABLE. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD CONDITION.
11. THE CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
12. MAINTAIN ANY AND ALL EXISTING FIRE-RATED ASSEMBLIES THAT ARE TO REMAIN, AND THEIR ASSOCIATED FIRE-RATINGS, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED EXISTING FIRE-RATED OPENINGS, ALL ASSOCIATED EXISTING FIRE-RATED PENETRATIONS, AND ALL ASSOCIATED EXISTING FIRE-RATED FIRESTOPPING CONDITIONS.
13. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, DETERMINE THE NATURE AND EXTENT OF THE CONFLICT AND NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
14. CONTRACTOR SHALL RE-LOCATE UTILITIES AND EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW HVAC, ELECTRICAL, PLUMBING, AND TECHNOLOGY REQUIREMENTS FOR NEW WORK.
15. SAW-CUT AND REMOVE EXISTING FLOOR FINISHES AND FLOOR SLAB AS REQUIRED TO INSTALL NEW FIXTURES, ITEMS, AND OR DEVISES FOR ALL SCOPE-OF-WORK PERTAINING TO NEW MECHANICAL WORK, NEW PLUMBING UTILITIES, NEW PLUMBING WORK, NEW ELECTRICAL WORK, AND NEW TECHNOLOGY WORK. SPLICE NEW REINFORCING BARS DOWELED INTO EXISTING CONCRETE AND PROVIDE NEW VAPOR RETARDER AND NEW CONTINUOUS WATERSTOPS AT JOINT BETWEEN NEW CONCRETE FLOOR SLAB AND EXISTING CONCRETE FLOOR SLAB. PATCH WITH NEW 3,500 PSI MINIMUM CONCRETE AND PREPARE FLOOR, INCLUDING NEW CONCRETE, TO RECEIVE NEW FLOOR FINISHES. COORDINATE WITH STRUCTURAL.
16. EXISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTING WITH WALLS TO REMAIN. REMAINING WALLS TO BE PATCHED AND FINISHED SMOOTH.
17. NEW OPENING TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT ONLY AT LOCATIONS INDICATED IN STRUCTURAL DRAWINGS TO THE HEIGHT AND WIDTH INDICATED. NEW LINTELS SHALL BE INSTALLED TO SUPPORT EXISTING **NOT USED** ABOVE AS INDICATED ON THE DRAWINGS, OR IF NOT INDICATED, AS REQUIRED FOR NEW WALL CONSTRUCTION PER STRUCTURAL DRAWINGS.
18. WHERE EXISTING INTERIOR WALLS ARE REPLACED OR REMOVED, REMOVE MEPT SYSTEMS BACK TO PANEL, OR MECHANICAL ROOM, OR FARTHEST POSSIBLE POINT WITHOUT DISTURBING EXISTING CONSTRUCTION. REMOVE EXISTING MECHANICAL EQUIPMENT, RELOCATE POWER PER MEPT DRAWINGS.
19. PATCH FLOORS, WALLS CEILINGS WHICH REMAIN AT LOCATIONS WHERE PIPES, CONDUITS, ETC. ARE REMOVED AS REQUIRED TO MATCH EXISTING CONDITIONS OR TO RECEIVE NEW FINISHES.
20. WHERE EXISTING FINISH FLOOR IS REMOVED, PREPARE FLOOR SURFACE TO RECEIVE NEW FLOORING.
21. ALL DASHED LINES ARE DEMOLITION LINES UNLESS NOTED OTHERWISE.
22. REMOVE ALL EXISTING ROOM AND BUILDING SIGNAGE.
23. DEMOLISH PORTION OF (E) WALL AS REQ'D TO PROVIDE ACCESSIBLE SIDE STRIKE CLEARANCE, RE: TO REMODEL PLAN FOR EXTENT.
24. EXISTING HHW BOILERS TO BE DECOMMISSIONED, DISCONNECT EXISTING HHW PIPING AT BOILER ROOM, DRAIN PIPING SYSTEM AND CAP. EXISTING RADIATORS IN CLASSROOMS TO BE REMOVED. EXPOSED HHW PIPING IN CLASSROOMS SHALL BE REMOVED BACK TO WALL PENETRATION AND CAPPED INSIDE WALL. ALL WALL OPENINGS, INCLUDING EXTERIOR WALL, SHALL BE SEALED AIR AND WATER TIGHT AND PAINTED TO MATCH EXISTING WALL COLOR. COORDINATE WITH DISTRICT ON REMOVAL OF EXISTING BOILER, PUMPS AND ASSOCIATED EQUIPMENT IN BOILER ROOM.
25. EXISTING EXHAUST FANS AND DUCTWORK IN RESTROOMS TO BE REMOVED.
26. DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES AND DISPOSE OF IN A LEGAL MANNER. RETAIN EXISTING CIRCUITS TO ALLOW EXTENSION TO NEW LIGHT FIXTURES.
27. CONTRACTOR TO DEMOLISH PLUMBING PIPING BACK TO POINTS OF CONNECTION (POC) AS IDENTIFIED ON ENGINEERING DRAWINGS FOR WATER AND SANITARY SEWER.
28. CONTRACTOR WILL REMOVE FROM SITE AND PATCH AND REPAIR AS NECESSARY TO ACCOMMODATE NEW WORK.
29. CONTRACTOR TO REMOVE ALL EXISTING WINDOW SHADES.
30. ALL EXISTING FIRE ALARM SYSTEM TO BE REMOVED.
31. ALL EXISTING ROUTERS TO BE REMOVED AND RELOCATED.
32. CONTRACTOR SHALL PROTECT ALL EXISTING WALL MURALS AND SCHEDULE A MEETING WITH THE OWNER AND ARCHITECT TO REVIEW ALL PROTECTION IN PLACE PRIOR TO INITIATING DEMOLITION.
33. CONTRACTOR TO REMOVE AND DISPOSE OF ALL ITEMS THAT ARE NOT BEING REUSED. DISPOSAL SHALL BE IN COMPLIANCE WITH ALL LOCAL AND STATE CODES AND SHALL BE RECYCLED PER SPECIFICATIONS AND LOCAL AND STATE CODES.

NOTE: CONTRACTOR SHALL PROTECT ALL EXISTING WALL MURALS AND SCHEDULE A MEETING WITH THE OWNER AND ARCHITECT TO REVIEW ALL PROTECTION IN PLACE PRIOR TO INITIATING DEMOLITION.

BUILDING MPE NOTES

1. EXISTING GAS AND WATER PIPES: REMOVE AND REPLACE ANY RUSTED OR DETERIORATED PIPES, VALVES AND YARD BOXES TO REMAIN.
2. RELOCATE / RE-ROUTE ANY ELECTRICAL CONDUITS AND LOW VOLTAGE RACEWAYS AND WIRING ABOVE & BELOW CEILING TO ACCOMMODATE NEW WORK.
3. RELOCATE / RE-ROUTE ANY VENT PIPES INTERFERING WITH NEW WORK.
4. REMOVE AND DISPOSE OLD CLOCK AND SPEAKERS NO LONGER IN USE.
5. REMOVE AND DISPOSE ELECTRICAL CABLING AND DEVICES NOT IN USE.
6. REMOVE AND DISPOSE FAU HEATING UNITS IN EACH ROOM AND ALL ASSOCIATED DUCTWORK, REGISTERS, CONDUITS AND WIRING.
7. REMOVE PROJECTORS IN WORKROOM AND LIBRARY ROOMS RETURN TO DISTRICT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121814 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/11/2023

PBK

ARCHITECT
PBK Architects, Inc.
PBK.com
ANAHEIM
2400 E. Katella Ave. #910
Anaheim, CA 92806
P 949-548-5000

FINLEY ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
13521 Edwards St.
Westminster, CA 92683

DSA SUBMITTAL

DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43

WESTMINSTER SCHOOL DISTRICT

KEY PLAN
NORTH: PLAN

Consultant

Architect
LICENSED ARCHITECT
Jong Yoo
No. C-31162
REN. 10-31-2023
STATE OF CALIFORNIA

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
05-16-2023	220307

REVISIONS

No.	Description	Date

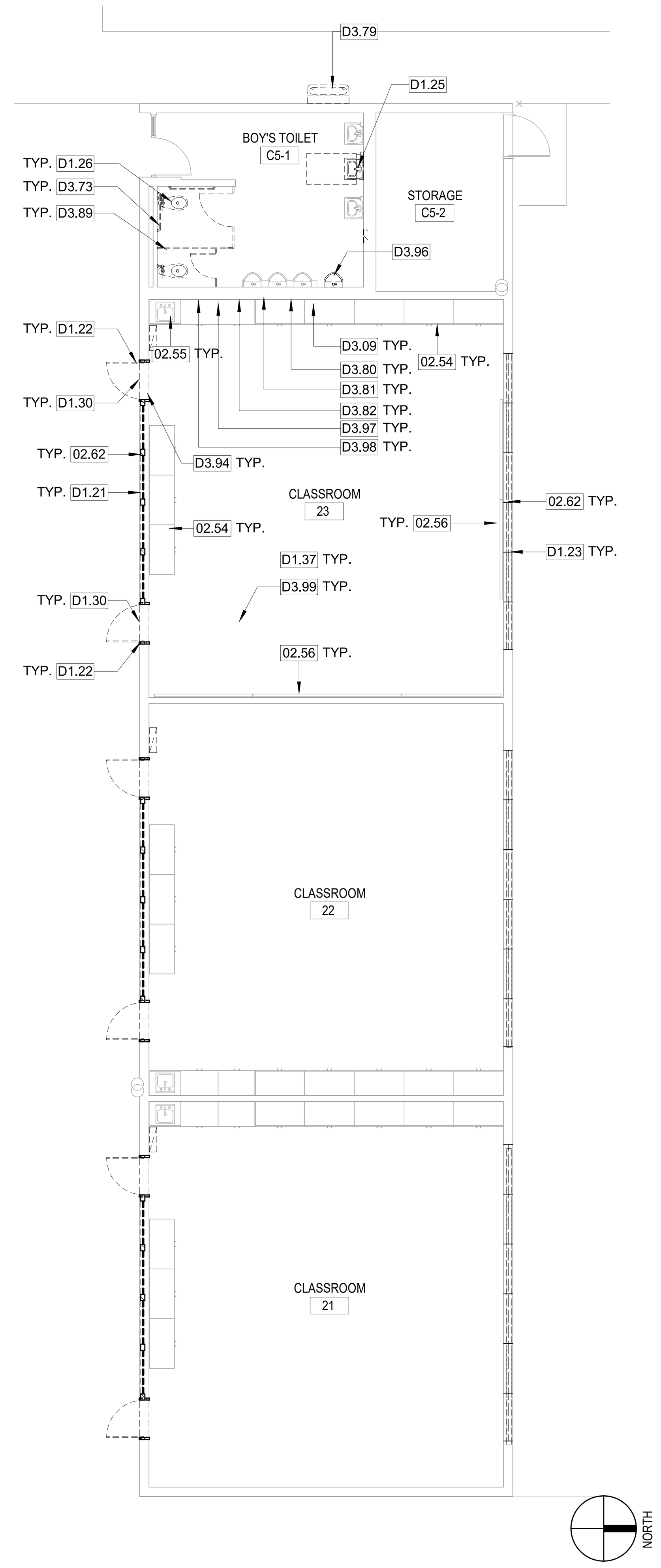
DSA SUBMITTAL

DEMO FLOOR PLAN BLDG CK, C1,C2,C6 & ADMIN

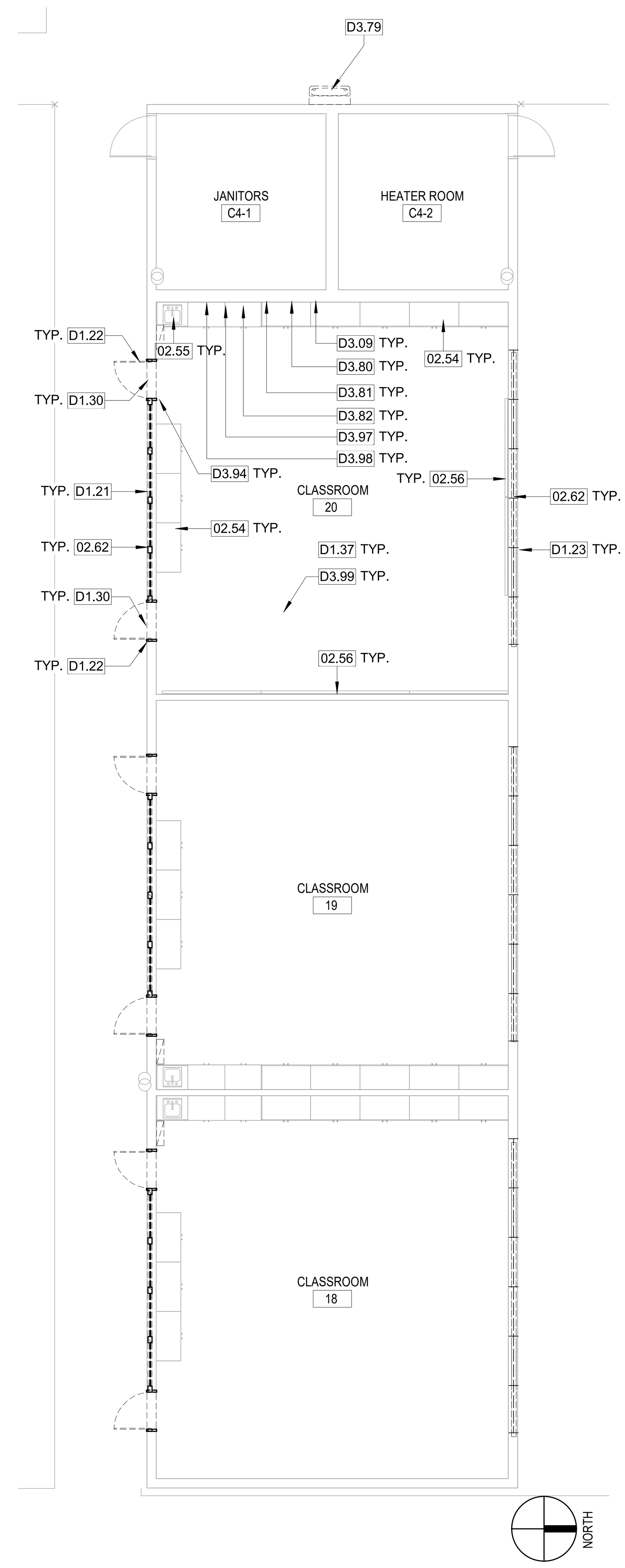
D1.1

FILE PATH: Z:\Projects\...
5/30/2023 10:18:10 AM

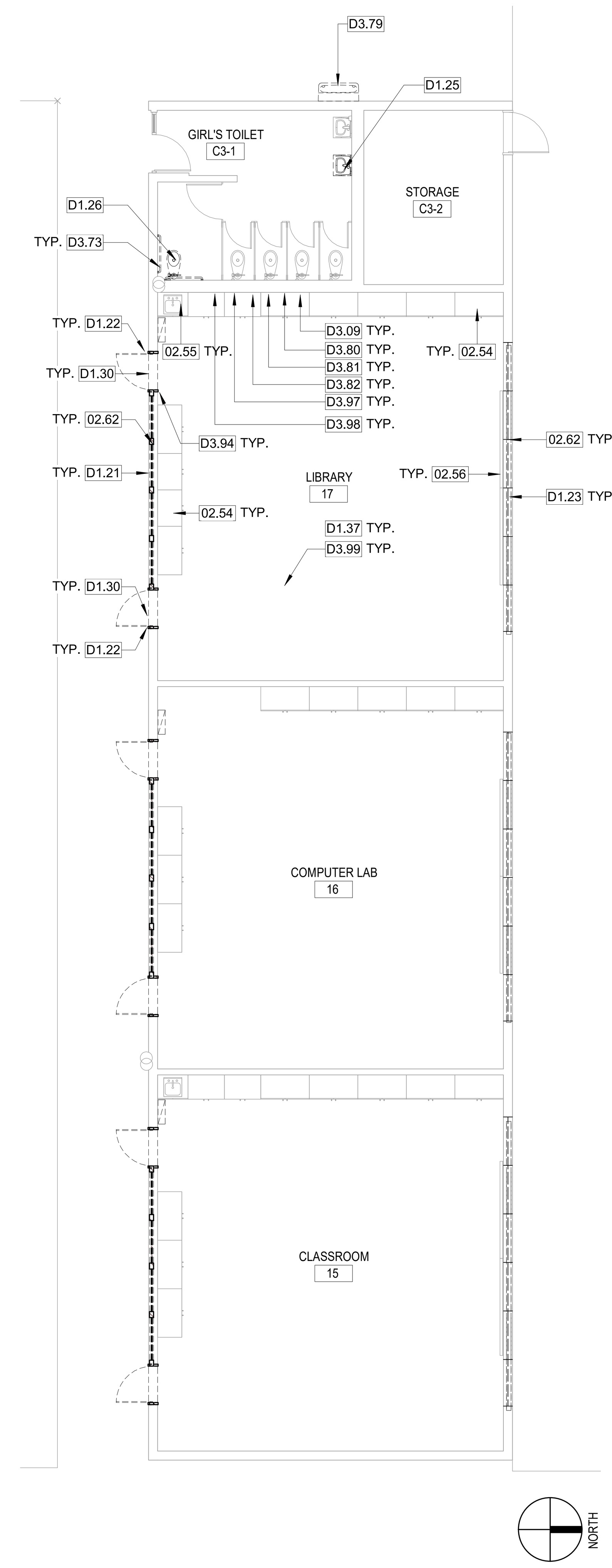
D1.2 - DEMO FLOOR PLAN BLDG C3, C4, & C5



3 DEMO FLOOR PLAN - BUILDING C5
1/8" = 1'-0"



2 DEMO FLOOR PLAN - BUILDING C4
1/8" = 1'-0"



1 DEMO FLOOR PLAN - BUILDING C3
1/8" = 1'-0"

KEYNOTE LEGEND

#	DESCRIPTION
02.54	(E) CASEWORK TO REMAIN, RE-PAINT & PROTECT IN PLACE
02.55	(E) ACCESSIBLE SINK TO REMAIN. PROTECT IN PLACE
02.56	(E) MARKER/TACKBOARD TO BE REMOVED & REPLACED WITH NEW PER DETAIL 5&6/A8.02
02.62	(E) WINDOW MULLION/COLUMN TUBE STEEL TO REMAIN, PROTECT IN PLACE, WHERE OCCURS

DEMOLITION KEYNOTES

#	DESCRIPTION
D1.21	(E) ALUMINUM FRAME & GLAZING STOREFRONT SYSTEM TO BE REMOVED AND DISPOSED
D1.22	(E) HM DOOR FRAME & (E) DOOR PANEL TO BE REMOVED AND DISPOSED
D1.23	(E) ALUMINUM FRAME & GLAZING WINDOW SYSTEM TO BE REMOVED AND DISPOSED
D1.25	(E) LAVATORY TO BE REMOVED AND DISPOSED, PATCH AND REPLACE WALL FINISH MATERIALS TO MATCH EXISTING
D1.26	(E) WATERCLOSET TO BE REMOVED AND DISPOSED, PATCH AND REPLACE FLOOR AND WALL FINISH MATERIALS TO MATCH EXISTING
D1.30	(E) TRANSOM WINDOW TO BE REMOVED AND DISPOSED
D1.37	(E) MARKER/TACK BOARD TO BE REMOVED AND DISPOSED. WHERE OCCURS
D3.09	(E) GLUE-ON/STAPLED ACOUSTIC TILE TO BE DEMOLISHED AND DISPOSED, INCLUDING SUBSTRATES AND (E) 2"X3" WOOD STRIPPING. WHERE OCCURS
D3.73	REMOVE (E) GRAB BAR AND RELOCATE PER ELEVATION, PATCH AND REPLACE WALL FINISH MATERIALS TO MATCH EXISTING
D3.79	REMOVE (E) DRINKING FOUNTAINS, PREPARE FOR NEW DRINKING FOUNTAIN
D3.80	(E) TELEVISION, PROJECTOR & BRACKET TO BE REMOVED AND DISPOSED. WHERE OCCURS.
D3.81	(E) ANALOG WALL CLOCK TO BE REMOVED AND DISPOSED. WHERE OCCURS.
D3.82	(E) AUDIO SPEAKER TO BE REMOVED AND DISPOSED. WHERE OCCURS.
D3.89	REMOVE (E) SOLID PLASTIC TOILET PARTITION, PREPARE FOR NEW TOILET PARTITION, PATCH AND REPLACE FLOOR AND WALL FINISH MATERIALS TO MATCH EXISTING
D3.94	(E) EXIT SIGNAGE TO BE REMOVED, DISPOSED AND REPLACED
D3.96	(E) URINAL TO BE REMOVED AND REPLACED, PATCH AND REPLACE WALL FINISH MATERIALS TO MATCH EXISTING
D3.97	(E) ELECTRICAL OUTLETS, WIREMOLDS & RACEWAYS TO BE REMOVED, PER ELECTRICAL PLAN, WHERE OCCURS.
D3.98	REMOVE (E) WALL PANELS AND REPLACE WITH NEW PER SPECS SECTION 10 11 00, WHERE OCCURS.
D3.99	REMOVE & DISPOSE OF EXISTING ABOVE CEILING ROOF INSULATION WHERE OCCURS

DEMOLITION LEGEND

EXISTING NON-BEARING WALL TO BE REMOVED

DOOR TO BE REMOVED

WINDOW TO BE REMOVED (SEE SCHEDULE)

DEMO ALL (E) WALL FINISH, FLOOR SLAB, DUCTS, PIPES, CONDUITS & FIXTURES, U.N.O.

(E) DUCT OPENINGS IN SLAB TO BE REMOVED AND IN-FILLED WITH CONCRETE WHERE OCCURS. PER DETAIL 4/SD1

GENERAL DEMOLITION NOTES

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3. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING. PRIOR TO COMMENCING WITH WORK.
4. CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER OF ANY POSSIBLE ASBESTOS CONTAINING MATERIALS DISCOVERED BEFORE PROCEEDING WITH WORK, PROTECT INTERIOR CONSTRUCTION TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
5. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS BEFORE COMMENCING WORK.
6. CONTRACTOR SHALL NOT SCALE DRAWINGS.
7. ALL FURNITURE WILL BE REMOVED OR RELOCATED BY THE OWNER AS NECESSARY PRIOR TO THE DEMOLITION WORK OF THIS PROJECT. CONTRACTOR SHALL COORDINATE WITH OWNER AS REQUIRED.
8. REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION TO REMAIN, THE CONTRACTOR SHALL REPAIR THE DAMAGE TO MATCH EXISTING AND OR ADJACENT CONSTRUCTION.
9. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO DEMOLITION ACTIVITIES AND WORK.
10. NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE DEEMED SALVAGEABLE. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD CONDITION.
11. THE CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
12. MAINTAIN ANY AND ALL EXISTING FIRE-RATED ASSEMBLIES THAT ARE TO REMAIN, AND THEIR ASSOCIATED FIRE-RATINGS, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED EXISTING FIRE-RATED OPENINGS, ALL ASSOCIATED EXISTING FIRE-RATED PENETRATIONS, AND ALL ASSOCIATED EXISTING FIRE-RATED FIRESTOPPING CONDITIONS.
13. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, DETERMINE THE NATURE AND EXTENT OF THE CONFLICT AND NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
14. CONTRACTOR SHALL RE-LOCATE UTILITIES AND EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW HVAC, ELECTRICAL, PLUMBING, AND TECHNOLOGY REQUIREMENTS FOR NEW WORK.
15. SAW-CUT AND REMOVE EXISTING FLOOR FINISHES AND FLOOR SLAB AS REQUIRED TO INSTALL NEW FIXTURES, ITEMS, AND OR DEVISES FOR ALL SCOPE-OF-WORK PERTAINING TO NEW MECHANICAL WORK, NEW PLUMBING UTILITIES, NEW PLUMBING WORK, NEW ELECTRICAL WORK, AND NEW TECHNOLOGY WORK. SPLICE NEW REINFORCING BARS DOWELED INTO EXISTING CONCRETE AND PROVIDE NEW VAPOR RETARDER AND NEW CONTINUOUS WATERSTOPS AT JOINT BETWEEN NEW CONCRETE FLOOR SLAB AND EXISTING CONCRETE FLOOR SLAB. PATCH WITH NEW 3,500 PSI MINIMUM CONCRETE AND PREPARE FLOOR, INCLUDING NEW CONCRETE, TO RECEIVE NEW FLOOR FINISHES. COORDINATE WITH STRUCTURAL.
16. EXISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTING WITH WALLS TO REMAIN. REMAINING WALLS TO BE PATCHED AND FINISHED SMOOTH.
17. ~~NEW OPENING TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT ONLY AT LOCATIONS INDICATED IN STRUCTURAL DRAWINGS TO THE HEIGHT AND WIDTH INDICATED. NEW LINTELS SHALL BE INSTALLED TO SUPPORT EXISTING WA[...]ON ABOVE AS INDICATED ON THE DRAWINGS, OR IF NOT INDICATED, AS REQUIRED FOR NEW WALL CONSTRUCTION PER STRUCTURAL DRAWINGS.~~ **NOT USED**
18. WHERE EXISTING INTERIOR WALLS ARE REPLACED OR REMOVED, REMOVE MEPT SYSTEMS BACK TO PANEL, OR MECHANICAL ROOM, OR FARTHEST POSSIBLE POINT WITHOUT DISTURBING EXISTING CONSTRUCTION. REMOVE EXISTING MECHANICAL EQUIPMENT, RELOCATE POWER PER MEPT DRAWINGS.
19. PATCH FLOORS, WALLS CEILINGS WHICH REMAIN AT LOCATIONS WHERE PIPES, CONDUITS, ETC. ARE REMOVED AS REQUIRED TO MATCH EXISTING CONDITIONS OR TO RECEIVE NEW FINISHES.
20. WHERE EXISTING FINISH FLOOR IS REMOVED, PREPARE FLOOR SURFACE TO RECEIVE NEW FLOORING.
21. ALL DASHED LINES ARE DEMOLITION LINES UNLESS NOTED OTHERWISE.
22. REMOVE ALL EXISTING ROOM AND BUILDING SIGNAGE.
23. DEMOLISH PORTION OF (E) WALL AS REQ'D TO PROVIDE ACCESSIBLE SIDE STRIKE CLEARANCE, RE: TO REMODEL PLAN FOR EXTENT.
24. EXISTING HHW BOILERS TO BE DECOMMISSIONED, DISCONNECT EXISTING HHW PIPING AT BOILER ROOM, DRAIN PIPING SYSTEM AND CAP. EXISTING RADIATORS IN CLASSROOMS TO BE REMOVED. EXPOSED HHW PIPING IN CLASSROOMS SHALL BE REMOVED BACK TO WALL PENETRATION AND CAPPED INSIDE WALL. ALL WALL OPENINGS, INCLUDING EXTERIOR WALL, SHALL BE SEALED AIR AND WATER TIGHT AND PAINTED TO MATCH EXISTING WALL COLOR. COORDINATE WITH DISTRICT ON REMOVAL OF EXISTING BOILER, PUMPS AND ASSOCIATED EQUIPMENT IN BOILER ROOM.
25. EXISTING EXHAUST FANS AND DUCTWORK IN RESTROOMS TO BE REMOVED.
26. DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES AND DISPOSE OF IN A LEGAL MANNER. RETAIN EXISTING CIRCUITS TO ALLOW EXTENSION TO NEW LIGHT FIXTURES.
27. CONTRACTOR TO DEMOLISH PLUMPING PIPING BACK TO POINTS OF CONNECTION (POC) AS IDENTIFIED ON ENGINEERING DRAWINGS FOR WATER AND SANITARY SEWER.
28. CONTRACTOR WILL REMOVE FROM SITE AND PATCH AND REPAIR AS NECESSARY TO ACCOMMODATE NEW WORK.
29. CONTRACTOR TO REMOVE ALL EXISTING WINDOW SHADES.
30. ALL EXISTING FIRE ALARM SYSTEM TO BE REMOVED.
31. ALL EXISTING ROUTERS TO BE REMOVED AND RELOCATED.
32. CONTRACTOR SHALL PROTECT ALL EXISTING WALL MURALS AND SCHEDULE A MEETING WITH THE OWNER AND ARCHITECT TO REVIEW ALL PROTECTION IN PLACE PRIOR TO INITIATING DEMOLITION.
33. CONTRACTOR TO REMOVE AND DISPOSE OF ALL ITEMS THAT ARE NOT BEING REUSED. DISPOSAL SHALL BE IN COMPLIANCE WITH ALL LOCAL AND STATE CODES AND SHALL BE RECYCLED PER SPECIFICATIONS AND LOCAL AND STATE CODES.

NOTE: CONTRACTOR SHALL PROTECT ALL EXISTING WALL MURALS AND SCHEDULE A MEETING WITH THE OWNER AND ARCHITECT TO REVIEW ALL PROTECTION IN PLACE PRIOR TO INITIATING DEMOLITION.

BUILDING MPE NOTES

1. EXISTING GAS AND WATER PIPES: REMOVE AND REPLACE ANY RUSTED OR DETERIORATED PIPES, VALVES AND YARD BOXES TO REMAIN.
2. RELOCATE / RE-ROUTE ANY ELECTRICAL CONDUITS AND LOW VOLTAGE RACEWAYS AND WIRING ABOVE & BELOW CEILING TO ACCOMMODATE NEW WORK.
3. RELOCATE / RE-ROUTE ANY VENT PIPES INTERFERING WITH NEW WORK.
4. REMOVE AND DISPOSE OLD CLOCK AND SPEAKERS NO LONGER IN USE.
5. REMOVE AND DISPOSE ELECTRICAL CABLING AND DEVICES NOT IN USE.
6. REMOVE AND DISPOSE FAU HEATING UNITS IN EACH ROOM AND ALL ASSOCIATED DUCTWORK, REGISTERS, CONDUITS AND WIRING.
7. REMOVE PROJECTORS IN WORKROOM AND LIBRARY ROOMS RETURN TO DISTRICT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121814 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/11/2023

PBK

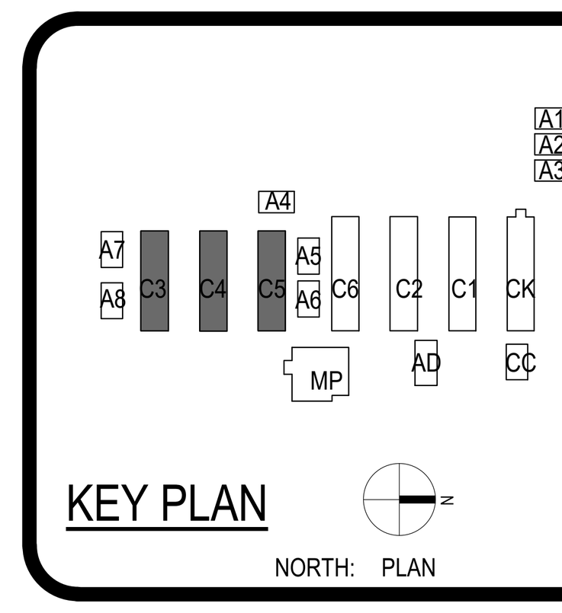
ARCHITECT PBK Architects, Inc.
PBK.com
ANAHEIM
2400 E. Katella Ave. #910
Anaheim, CA 92806
P 949-548-5000

FINLEY ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
13521 Edwards St.,
Westminster, CA 92683

DSA SUBMITTAL

DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43



KEY PLAN

Consultant

Architect

LICENSED ARCHITECT
No. C-31162
REN. 10-31-2023
STATE OF CALIFORNIA

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
05-16-2023	220307

REVISIONS

No.	Description	Date

DSA SUBMITTAL

DEMO FLOOR PLAN BLDG C3, C4, & C5

D1.2

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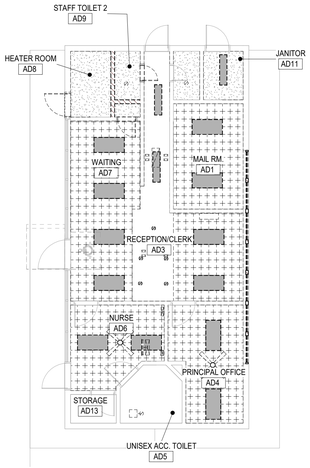
0" 1"

D2.1 - DEMO RCP BLDG CK,C1,C2,C6 ,C3 & ADMIN



21 DEMO RCP BUILDING A
1/8" = 1'-0"

DEMOLITION RCP LEGEND

- EXISTING CEILING TO REMAIN
- EXISTING PLASTER /GYP.BD. CEILING & SUBSTRATE TO BE REMOVED AND DISPOSED.
- EXISTING NON-BEARING WALL TO BE REMOVED
- EXISTING 12"x12" GLUE UP / STAPLED ACOUSTIC TILE AND (E) SUBSTRATES TO BE REMOVED AND DISPOSED.
- REMOVE AND DISPOSE (E) LIGHT FIXTURES AND WIRING
- MECHANICAL GRILLES, REFER TO MECHANICAL DRAWINGS (REMOVE WHEN SHOWN DASHED)
- (E) CEILING FAN AND ACCESSORIES TO BE REMOVED BY G.C. AND RETURNED TO THE DISTRICT.
- (E) ACCESS PANEL TO BE REMOVED & DISPOSED, WHERE OCCURS.

NOTE:
1. REMOVE & DISPOSE OF EXISTING ABOVE CEILING ROOF INSULATION. WHERE OCCURS.

GENERAL DEMOLITION NOTES

1. DEMOLITION PLANS INDICATE SOME OF THE SCOPE-OF-WORK INVOLVED FOR THE DEMOLITION PHASE OF THIS PROJECT. CONTRACTOR SHALL REVIEW ALL SHEETS FOR ADDITIONAL DEMOLITION SCOPE.
2. CONTRACTOR SHALL VERIFY EXISTING SITE AND BUILDING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO DEMOLITION ACTIVITIES AND WORK.
3. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING.
4. CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER OF ANY POSSIBLE ASBESTOS CONTAINING MATERIALS DISCOVERED BEFORE PROCEEDING WITH WORK. PROTECT INTERIOR CONSTRUCTION TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
5. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS BEFORE COMMENCING WORK.
6. AFTER AWARD OF THE CONTRACT, CHANGE ORDER REQUESTS FOR ADDITIONAL MONEY WILL NOT BE APPROVED IF THE WORK COULD HAVE BEEN ANTICIPATED DURING A SITE VISIT BY THE CONTRACTOR.
7. CONTRACTOR SHALL NOT SCALE DRAWINGS.
8. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY SHORING, TEMPORARY BRACING, AND OR TEMPORARY SUPPORTS AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY OF EXISTING STRUCTURE TO REMAIN AND OR EXISTING BUILDING ELEMENTS TO REMAIN.
9. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO DEMOLITION ACTIVITIES AND WORK.
10. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS REGULARLY AS NECESSARY TO ELIMINATED INTERFERENCE WITH ROADS, STREET, WALKS, AND ALL OTHER ADJACENT FACILITIES.
11. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
12. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF TEMPORARY DUST AND OR SOUND PARTITION BETWEEN CONSTRUCTION AREA AND AREAS NOT IN SCOPE AS NECESSARY. DEMOLITION ACTIVITIES SHALL BE PERFORMED SO AS TO PRODUCE MINIMAL DISTURBANCE TO EXISTING FACILITY AND OCCUPANTS (I.E. MINIMIZE EXCESSIVE AND PROLONGED NOISE LEVELS AND DUST).
13. CONTRACTOR SHALL REPAIR, REPLACE, OR PATCH EXISTING BUILDINGS, DRIVEWAYS, SIDEWALKS, CANOPIES, AND OR PARKING AREAS DAMAGED, MODIFIED, AND OR DISTURBED BY DEMOLITION WORK AT NO COST TO THE OWNER.
14. ALL EXISTING EQUIPMENT THAT REMAINS SHALL BE PROTECTED DURING DEMOLITION AND OR CONSTRUCTION TO PREVENT DAMAGE. ANY DAMAGE TO REMAINING EXISTING EQUIPMENT SUSTAINED DURING DEMOLITION AND OR CONSTRUCITON SHALL BE EQUIVALENTLY REPLACED OR EQUIVALENTLY REPAIRED AT NO COST TO THE OWNER.
15. CONTRACTOR SHALL PROVIDE TRAFFIC HANDLING MEASURES TO PROTECT THE GENERAL PUBLIC AT ALL TIMES, AS NECESSARY AND AS REQURED BY AUTHORITIES HAVING JURISDICTION.
16. DO NOT INTERRUPT EXISTING UTILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
17. WHEN UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE BEFORE PROCEEDING WITH DEMOLITION.
18. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING: ELECTRIC, GAS, WATER, TELEPHONE, STORM SEWER, AND SANITARY SEWER FOR FIELD LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITY LINES. PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK, CONTRACTOR SHALL IDENTIFY ALL ELECTRICAL CIRCUITS SERVICING THE AREA INVOLVED WITH THIS DEMOLITION. THOSE CIRCUITS SHALL THEN BE LOCKED OUT AND TAGGED OUT IF THEY DO NOT SERVICE ANY OF THE REMAINING BUILDING. THOSE CIRCUITS WHICH ARE IDENTIFIED TO SERVICE BOTH THE AREA TO BE DEMOLISHED AND THE REMAINING BUILDING SHALL BE SPLIT SO AS TO KILL ALL ELECTRICAL POWER TO THE AREA TO BE DEMOLISHED WHILE MAINTAINING POWER TO THE REMAINDER OF THE BUILDING.
19. CONTRACTOR SHALL RELOCATE UTILITIES AND EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW HVAC, ELECTRICAL, PLUMBING, AND TECHNOLOGY REQUIREMENTS FOR NEW WORK.
20. PROTECT EXISTING SITE ELEMENTS AND EXISTING LANDSCAPING TO REMAIN. PROTECTION SHALL INCLUDE BUT NOT BE LIMITED TO EXISTING TREES AND OTHER EXISTING VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIAL OR EXCAVATED MATERIAL WITHIN DRIP LINES.
21. CONTRACTOR SHALL REGRADE AND HYDROMULCH AREAS AFFECTED BY DEMOLITION.
22. OWNER HAS RIGHT OF FIRST REFUSAL OF ALL ITEMS REMOVED AS PART OF THE SOCPE OF WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT.
23. NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE DEEMED SALVAGEABLE. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD AND CLEAN CONDITION.
24. ALL FURNITURE WILL BE REMOVED OR RELOCATED BY THE OWNER AS NECESSARY PRIOR TO THE DEMOLITION WORK OF THIS PROJECT. CONTRACTOR SHALL COORDINATE WITH OWNER AS REQUIRED.
25. REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION TO REMAIN, THE CONTRACTOR SHALL REPAIR THE DAMAGE TO MATCH EXISTING AND OR ADJACENT CONSTRUCTION AT NO COST TO THE OWNER.
26. MAINTAIN ANY AND ALL EXISTING FIRE-RATED ASSEMBLIES THAT ARE TO REMAIN, AND THEIR ASSOCIATED FIRE-RATINGS, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED EXISTING FIRE-RATED OPENINGS, ALL ASSOCIATED EXISTING FIRE-RATED PENETRATIONS, AND ALL ASSOCIATED EXISTING FIRE-RATED FIRESTOPPING CONDITIONS.
27. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, DETERMINE THE NATURE AND EXTENT OF THE CONFLICT AND NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
28. REMOVE, PATCH, AND REPAIR ALL ABANDONED ROOF PENETRATIONS RESULTING FROM WORK.
29. SAW-CUT AND REMOVE EXISTING FLOOR FINISHES AND FLOOR SLAB AS REQUIRED TO INSTALL NEW FIXTURES, ITEMS, AND OR DEVISES FOR ALL SCOPE-OF-WORK PERTAINING TO NEW MECHANICAL WORK, NEW PLUMBING UTILITIES, NEW PLUMBING WORK, NEW ELECTRICAL WORK, AND NEW TECHNOLOGY WORK. SPLICE NEW REINFORCING BARS DOWELED INTO EXISTING CONCRETE AND PROVIDE NEW VAPOR RETARDER AND NEW CONTINUOUS WATERSTOPS AT JOINT BETWEEN NEW CONCRETE FLOOR SLAB AND EXISTING CONCRETE FLOOR SLAB. PATCH WITH NEW 3,500 PSI MINIMUM CONCRETE AND PREPARE FLOOR, INCLUDING NEW CONCRETE, TO RECEIVE NEW FLOOR FINISHES. COORDINATE WITH STRUCTURAL.
30. EXISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTING WITH WALLS TO REMAIN. REMAINING WALLS TO BE PATCHED AND FINISHED SMOOTH.
31. NEW OPENING TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED TO THE HEIGHT AND WIDTH INDICATED. NEW LINTELS SHALL BE INSTALLED TO SUPPORT EXISTING WALL CONSTRUCTION ABOVE AS INDICATED. **NOT USED** OR IF NOT INDICATED, AS REQUIRED FOR NEW WALL CONSTRUCTION PER STRUCTURAL DRAWINGS. COORDINATE LOCATIONS OF ALL NEW OPENINGS IN EXISTING WALLS AND PARTITIONS WITH ARCHITECTURAL PLANS.
32. WHERE EXISTING WALL OPENINGS ARE TO BE NEWLY CLOSED-OFF, REMOVE ANY EXISTING OPENING FRAME AND PATCH AND REPAIR EXISTING WALL TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES, UNLESS NOTED OTHERWISE.
33. WHERE EXISTING INTERIOR WALLS ARE REPLACED OR REMOVED, REMOVE MEPT SYSTEMS BACK TO PANEL, OR MECHANICAL ROOM, OR FARTHEST POSSIBLE POINT WITHOUT DISTURBING EXISTING CONSTRUCTION. REMOVE EXISTING MECHANICAL EQUIPMENT, RELOCATE POWER PER MEPT DRAWINGS
34. REFER TO MEPT DRAWINGS FOR DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.
35. PATCH FLOORS, WALLS CEILINGS WHICH REMAIN AT LOCATIONS WHERE PIPES, CONDUITS, ETC. ARE REMOVED AS REQUIRED TO MATCH EXISTING CONDITIONS OR TO RECEIVE NEW FINISHES.
36. WHERE EXISTING FINISH FLOOR IS REMOVED, PREPARE FLOOR SURFACE TO RECEIVE NEW FLOORING.
37. ALL DASHED LINES ARE DEMOLITION LINES U.N.O.

BUILDING MPE NOTES

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5 DEMO RCP BUILDING C3
1/8" = 1'-0"

5 DEMO RCP BUILDING C6
1/8" = 1'-0"

4 DEMO RCP BUILDING C2
1/8" = 1'-0"

3 DEMO RCP BUILDING C1
1/8" = 1'-0"

2 DEMO RCP BUILDING CK
1/8" = 1'-0"

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121814 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/11/2023

PBK

ARCHITECT PBK Architects, Inc.
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ANAHEIM
2400 E. Katella Ave. #910
Anaheim, CA 92806
P 949-548-6000

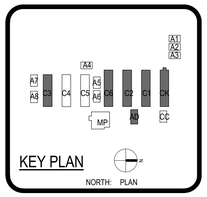
FINLEY ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
13521 Edwards St.
Westminster, CA 92683

DSA SUBMITTAL

DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43

WESTMINSTER SCHOOL DISTRICT



KEY PLAN
NORTH: PLAN

Consultant

Architect
LICENSED ARCHITECT
Yong Yoo
No. C-31162
RENEW 10-31-2025
STATE OF CALIFORNIA

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
05-16-2023	220307

REVISIONS

No.	Description	Date

DSA SUBMITTAL

DEMO RCP BLDG CK,C1,C2,C6 ,C3 & ADMIN

D2.1

D2.2 - DEMO RCP BLDG C4 & C5

0" 1"

DEMOLITION RCP LEGEND

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28. REMOVE, PATCH, AND REPAIR ALL ABANDONED ROOF PENETRATIONS RESULTING FROM WORK.
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33. WHERE EXISTING INTERIOR WALLS ARE REPLACED OR REMOVED, REMOVE MEPT SYSTEMS BACK TO PANEL, OR MECHANICAL ROOM, OR FARTHEST POSSIBLE POINT WITHOUT DISTURBING EXISTING CONSTRUCTION. REMOVE EXISTING MECHANICAL EQUIPMENT, RELOCATE POWER PER MEPT DRAWINGS.
34. REFER TO MEPT DRAWINGS FOR DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.
35. PATCH FLOORS, WALLS CEILINGS WHICH REMAIN AT LOCATIONS WHERE PIPES, CONDUITS, ETC. ARE REMOVED AS REQUIRED TO MATCH EXISTING CONDITIONS OR TO RECEIVE NEW FINISHES.
36. WHERE EXISTING FINISH FLOOR IS REMOVED, PREPARE FLOOR SURFACE TO RECEIVE NEW FLOORING.
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BUILDING MPE NOTES

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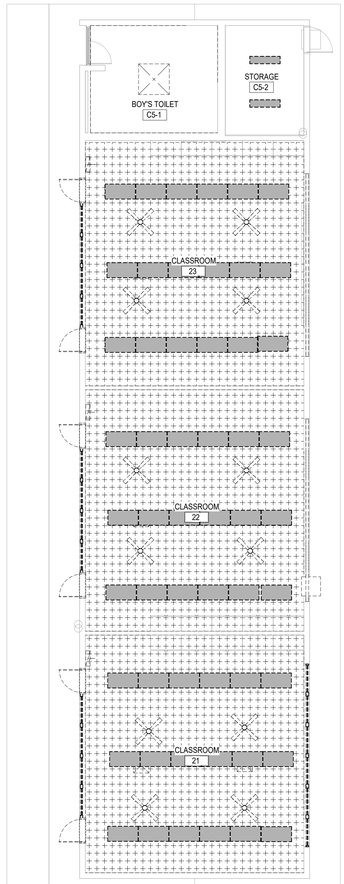
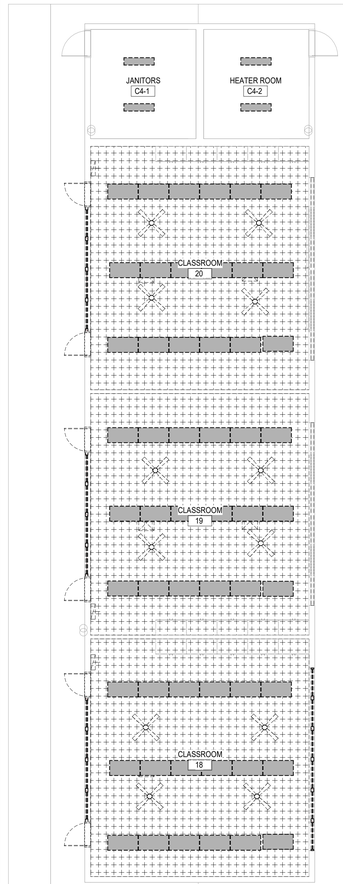


2 DEMO RCP BUILDING C5
1/8" = 1'-0"



1 DEMO RCP BUILDING C4
1/8" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121814 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/11/2023

PBK

ARCHITECT PBK Architects, Inc.
PBK.com
ANAHEIM
2400 E. Katella Ave. #910
Anaheim, CA 92806
P 949-548-5000

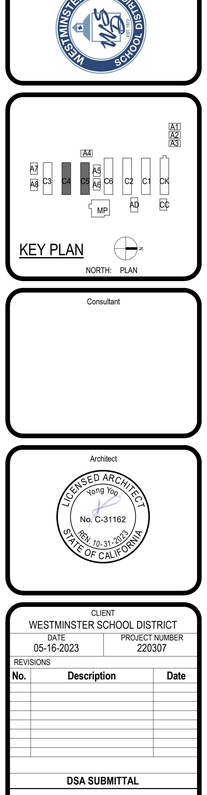
FINLEY ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
13521 Edwards St.
Westminster, CA 92683

DSA SUBMITTAL

DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43

WESTMINSTER SCHOOL DISTRICT



KEY PLAN
NORTH: PLAN

Consultant

Architect
LICENSED ARCHITECT
Yong Yoo
No. C-31162
REN. 10-31-2023
STATE OF CALIFORNIA

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
05-16-2023	220307

REVISIONS

No.	Description	Date

DSA SUBMITTAL

DEMO RCP BLDG C4 & C5

D2.2

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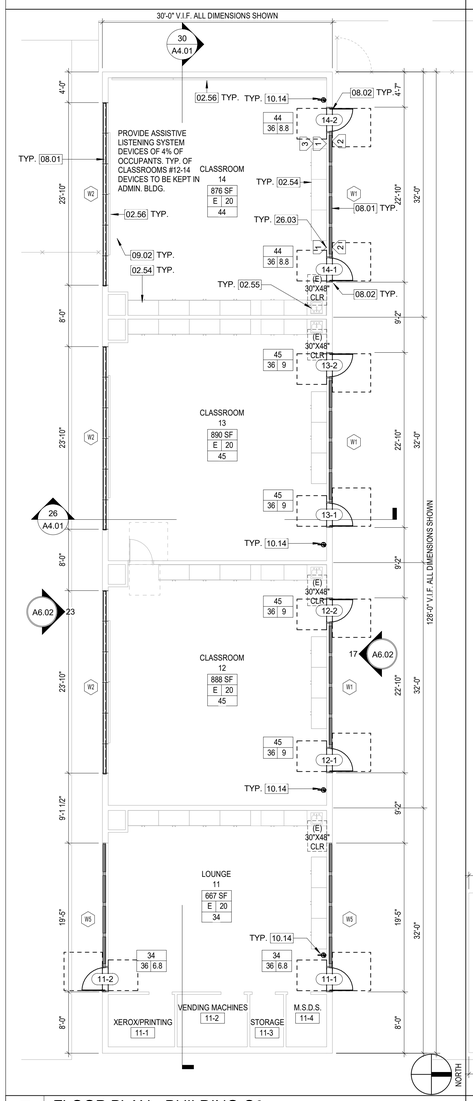
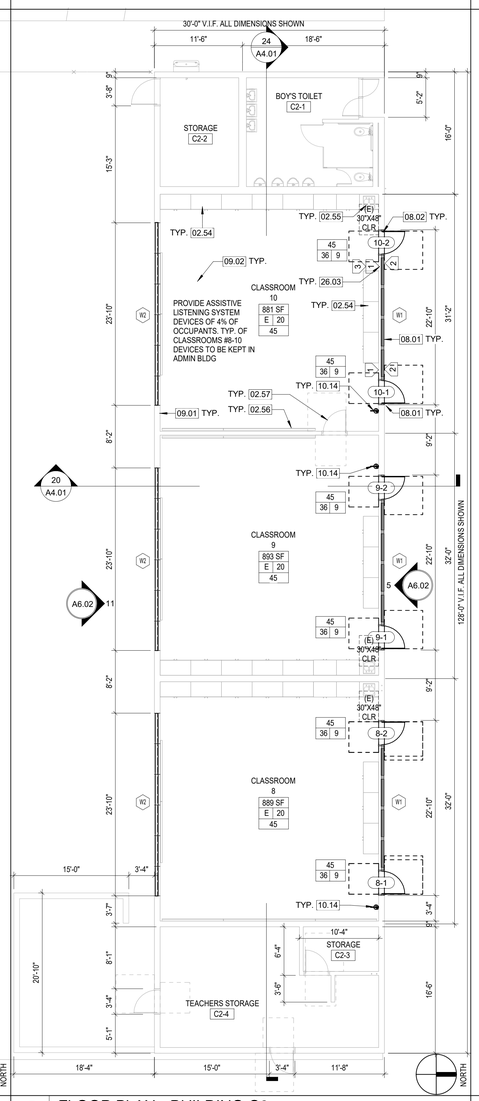
A1.01 - FLOOR PLANS BLDG CK, C1,C2,C6 & ADMIN

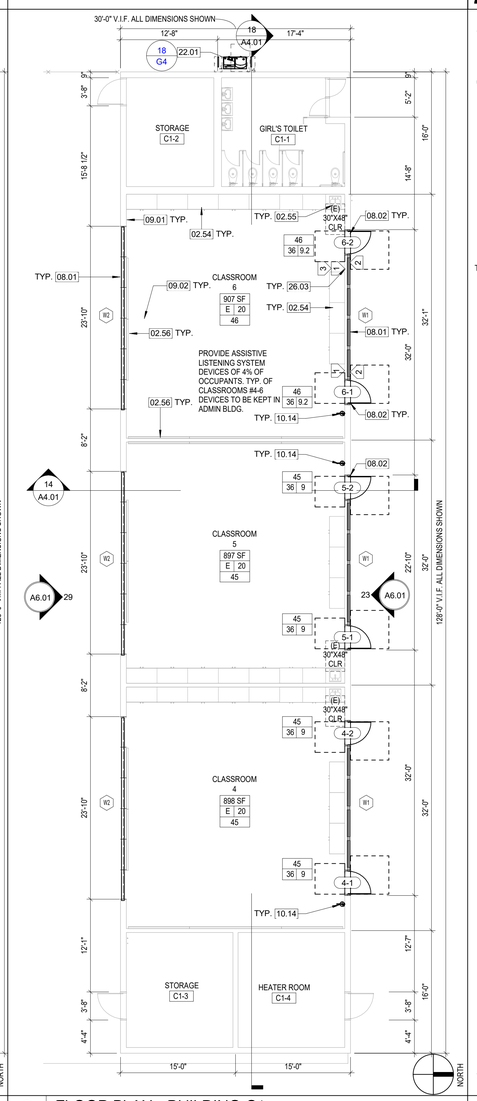
0" 1"



5 FLOOR PLAN - BUILDING C6
1/8" = 1'-0"



4 FLOOR PLAN - BUILDING C2
1/8" = 1'-0"



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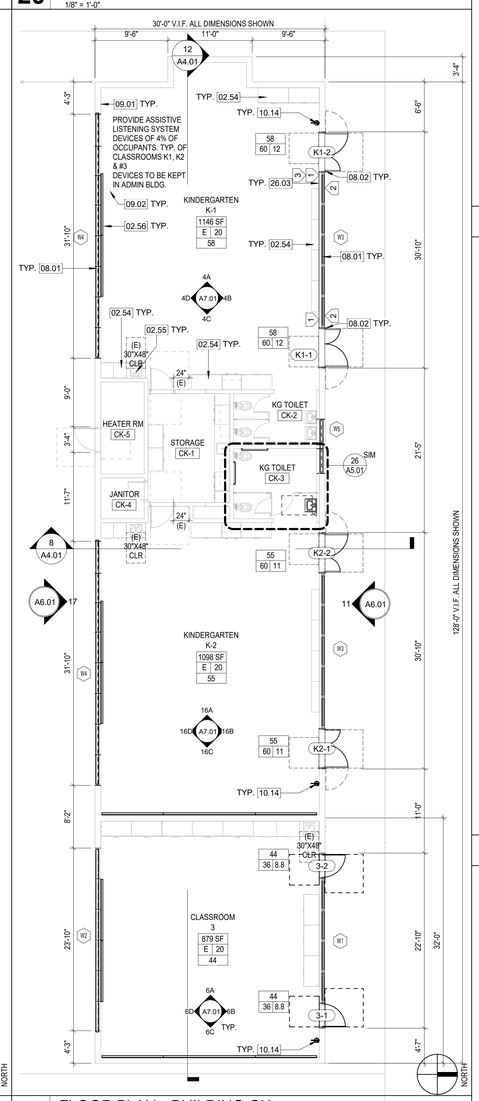
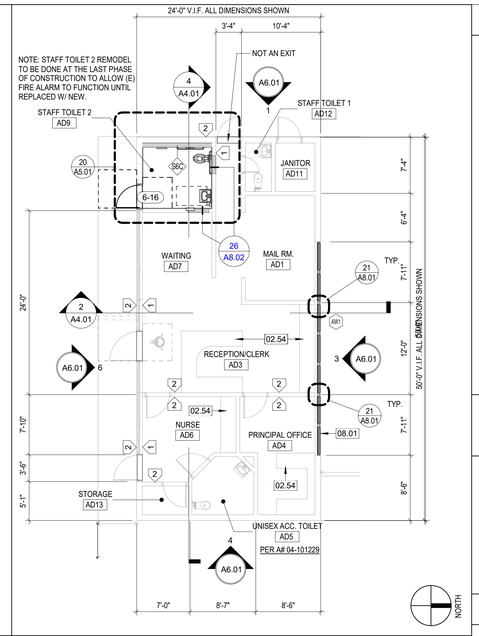
1/8" = 1'-0"



2 FLOOR PLAN - BUILDING CK
1/8" = 1'-0"



20 FLOOR PLAN - ADMIN BLDG
1/8" = 1'-0"

CONSTRUCTION KEYED NOTES

02.54 (E) CASEWORK TO REMAIN, RE-PAINT & PROTECT IN PLACE
02.55 (E) ACCESSIBLE SINK TO REMAIN. PROTECT IN PLACE
02.56 (E) MARKER/TACKBOARD TO BE REMOVED & REPLACED WITH NEW PER DETAIL 5&6/A8.02
02.57 (E) DOOR FRAME & PANEL TO REMAIN. PROTECT IN PLACE.
08.01 (N) ALUMINUM FRAME & GLAZING WINDOW SYSTEM.SEE WINDOWS FRAMING ELEVATION A9.01, PER ALUMINUM-FRAMED STOREFRONT SPEC SECTION 084113, ALUMINUM WINDOWS SPECS SECTION 085100 & GLAZING SPEC SECTION 088000
08.02 (N) INTEGRAL ALUMINUM FRAME DOOR SYSTEM.SEE FRAMING ELEVATION A9.01 & DOOR SCHEDULE, PER ALUMINUM-FRAMED STOREFRONT SPEC SECTION 084113, & DOOR SPEC SECTION IN DIV 8
09.01 (N) INTERIOR PAINT FINISH, SEE FINISH SCHEDULE
09.02 (N) FLOOR FINISH AND BASEBOARD, SEE FINISH SCHEDULE
10.14 (N) FIRE EXTINGUISHER, SURFACE MOUNTED TO (E) WALL. SEE DETAIL 18/A8.02
22.01 (N) ACCESSIBLE DRINKING FOUNTAIN W/ BOTTLE FILLER AND WING GUARDS. SEE DETAIL 18/G4
26.03 NEW EXIT SIGN, PER ELEC DWGS. SEE DETAIL 16/A8.02

EXTERIOR AND INTERIOR PAINT SCOPE OF WORK

1. CONTRACTOR SHALL PAINT ALL EXTERIOR AND INTERIOR SURFACES OF ALL BUILDINGS INCLUDING PORTABLES PER SPECIFICATION, THIS WORK INCLUDES ALL FLASHING, FASCIA, PLASTER, LOUVER, DRYWALL, DOORS AND FRAMES WITH THE EXCEPTION OF BRICK SURFACES. MINIMUM OF 4 COLORS TO BE SELECTED BY THE ARCHITECTS.
2. GENERAL CONTRACTOR TO NOTIFY AND DOCUMENT ANY AREAS WITH DRYROT AND / OR TERMITE DAMAGE IN WRITTEN FORMAT PRIOR TO BID.
3. PROVIDE APPROPRIATE PREPARATION , CLEANING AND BASE MATERIAL AT EXISTING EXTERIOR FINISHES BEFORE RECEIVING NEW FINISHES. PER FINISH SPECIFICATION.

GENERAL ARCH PLAN NOTES

1. COORDINATE ALL SPOT ELEVATIONS AND DIMENSIONS WITH CIVIL
2. PROVIDE AND INSTALL POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS OF 1 % MINIMUM, 2 % MAXIMUM AT ALL EXTERIOR PAVED PEDESTRIAN AREAS, INCLUDING BUT NOT LIMITED TO, SIDEWALKS, PATIOS, STAIRS, PAVING, U.N.O.
3. PROVIDE AND INSTALL POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS OF 5 % FOR A HORIZ. DISTANCE OF 10 FEET AT ALL EXTERIOR NON-PAVED AREAS U.N.O
4. REFER TO CIVIL DOCUMENTS FOR CONCRETE SIDEWALK EXPANSION JOINTS AND CONCRETE SIDEWALK CONTROL JOINTS
5. PROVIDE AND INSTALL CONCRETE SIDEWALK CONTROL JOINTS AT DISTANCES EQUIVALENT TO SIDEWALK WIDTH, BUT NOT TO EXCEED 10 FEET ON-CENTER MAX.

NOTE: ALL BUILDINGS ARE NON-SPRINKLERED

REMODEL PLAN LEGEND

EXISTING WALL TO REMAIN
NEW NON-BEARING WALL TO BE PROVIDED. AND SEE WALL PARTITIONS TAG FOR TOP & BOTTOM CONNECTION
(N) DOOR MARK
(N) WINDOWLOCATION
(N) WINDOW NUMBER
REFER TO A9.10 FOR WINDOW FRAMES AND GLAZING TYPES
1'-0" INT.
1'-6" INT.
2'-0" EXT.
(N) DOOR TO BE PROVIDED. REFER TO A9.01 FOR DOOR SCHEDULE AND TYPES
(N) WINDOW (SEE WINDOW FRAMING ELEVATION ON SHEET A9.01)
WALL PARTITIONS TAG
LETTER INDICATES PARTITION TYPE, REF. DETAIL 1 A8.02 2 A8.02
# INDICATES CORE WIDTH
LETTER INDICATES CORE TYPE (S=STUD)
CLASSROOM — ROOM NAME
400 — ROOM NUMBER
960 — ROOM AREA (SQ. FT.)
E 20 — OCCUPANT LOAD FACTOR
48 — ROOM OCCUPANT
OCCUPANCY TYPE
100 — COMBINED EXIT LOAD
32 20 — REQUIRED CLEAR EXIT WIDTH (IN INCHES)
PROVIDED CLEAR EXIT WIDTH (IN INCHES)

NOTE: 1. ALL EXTERIOR CLASSROOM/ADMIN WINDOW FRAMES AND GLAZING TO BE REPLACED. PATCH AND REPAIR WALLS, AS NEEDED, FOLLOWING WINDOW INSTALLATION
2. FIELD VERIFY ALL DIMENSIONS .

SIGNAGE LEGEND

ALL SIGNAGE IS (E) TO REMAIN. WHERE (E) SIGNAGE IS MISSING OR DAMAGED PROVIDE NEW SIGNAGE TO MATCH EXISTING PER DETAIL REFERENCES BELOW...

SIGNAGE TAG #

1. TACTILE EXIT SIGNAGE, SEE DETAIL 16 / A8.02 AND/OR SEE ELECTRICAL PLANS FOR ILLUMINATED EXIT REQUIREMENTS.
2. ROOM IDENTIFICATION SIGNAGE, SEE DETAIL 19 / A8.02 (VERIFY ROOM NAME & NUMBER w/ OWNER). WHERE TWO ROOMS ADJOIN ONE ANOTHER, PROVIDE SIGNAGE ON EACH SIDE OF THE WALL, TYP. ALL ROOMS
3. ASSISTIVE LISTENING SIGNAGE, SEE DETAIL 23 / A8.02

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WESTMINSTER SCHOOL DISTRICT

Consultant

Architect

CLIENT
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FLOOR PLANS BLDG CK, C1,C2,C6 & ADMIN

A1.01

FILE PATH: Z:\Projects\...
5/30/2023 10:15:20 AM

A1.02 - FLOOR PLANS BLDG C3,C4 & C5

0" 1"

CONSTRUCTION KEYED NOTES

02.54	(E) CASEWORK TO REMAIN, RE-PAINT & PROTECT IN PLACE
02.55	(E) ACCESSIBLE SINK TO REMAIN. PROTECT IN PLACE
02.56	(E) MARKER/TACKBOARD TO BE REMOVED & REPLACED WITH NEW PER DETAIL 5&6/A8.02
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08.02	(N) INTEGRAL ALUMINUM FRAME DOOR SYSTEM SEE FRAMING ELEVATION A9.01 & DOOR SCHEDULE, PER ALUMINUM-FRAMED STOREFRONT SPEC SECTION 084113, & DOOR SPEC SECTION IN DIV 8
09.01	(N) INTERIOR PAINT FINISH. SEE FINISH SCHEDULE
10.14	(N) FIRE EXTINGUISHER, SURFACE MOUNTED TO (E) WALL. SEE DETAIL 18/A8.02
22.01	(N) ACCESSIBLE DRINKING FOUNTAIN W/ BOTTLE FILLER AND WING GUARDS. SEE DETAIL 18/G4
26.03	NEW EXIT SIGN, PER ELEC DWGS. SEE DETAIL 16/A8.02

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REMODEL PLAN LEGEND

- EXISTING WALL TO REMAIN
- NEW NON-BEARING WALL TO BE PROVIDED. AND SEE WALL PARTITIONS TAG FOR TOP & BOTTOM CONNECTION
- (N) DOOR MARK
- (N) WINDOWLOCATION / (N) WINDOW NUMBER — REFER TO A9.10 FOR WINDOW FRAMES AND GLAZING TYPES
- (N) DOOR TO BE PROVIDED. REFER TO A9.01 FOR DOOR SCHEDULE AND TYPES
- (N) WINDOW (SEE WINDOW FRAMING ELEVATION ON SHEET A9.01)
- WALL PARTITIONS TAG
- LETTER INDICATES PARTITION TYPE, REF. DETAIL - 1 A8.02 / 2 A8.02
- # INDICATES CORE WIDTH
- LETTER INDICATES CORE TYPE (S=STUD)

CLASSROOM — ROOM NAME
400 — ROOM NUMBER
960 — ROOM AREA (SQ. FT.)
E 20 — OCCUPANT LOAD FACTOR
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OCCUPANCY TYPE

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32 | 20 — REQUIRED CLEAR EXIT WIDTH (IN INCHES) / PROVIDED CLEAR EXIT WIDTH (IN INCHES)

NOTE: 1. ALL EXTERIOR CLASSROOM/ADMIN WINDOW FRAMES AND GLAZING TO BE REPLACED, PATCH AND REPAIR WALLS, AS NEEDED, FOLLOWING WINDOW INSTALLATION

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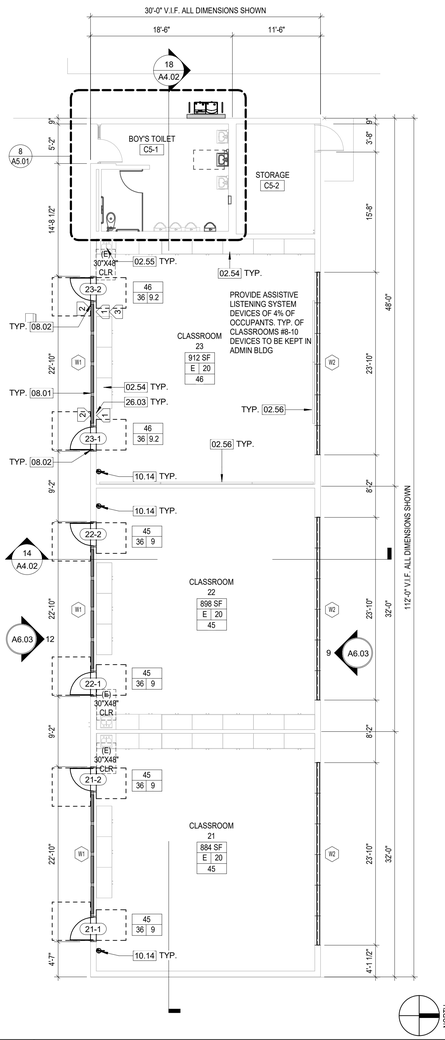
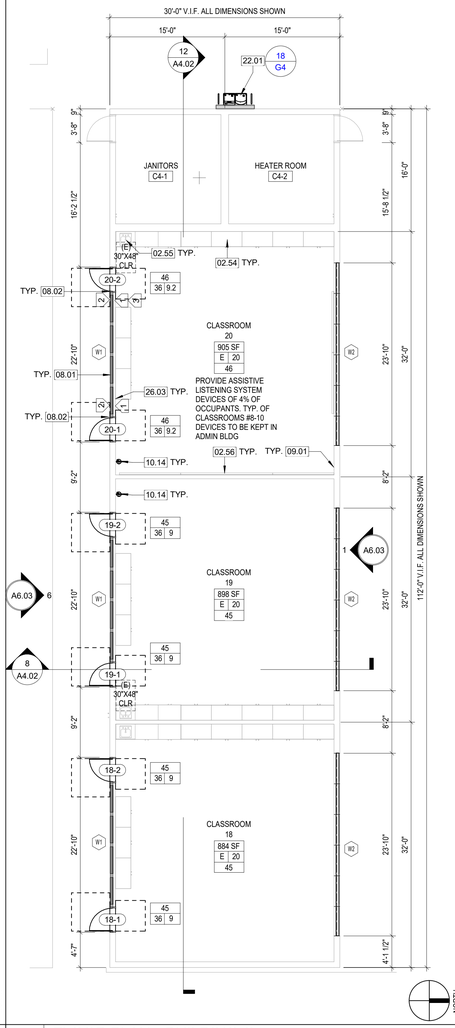
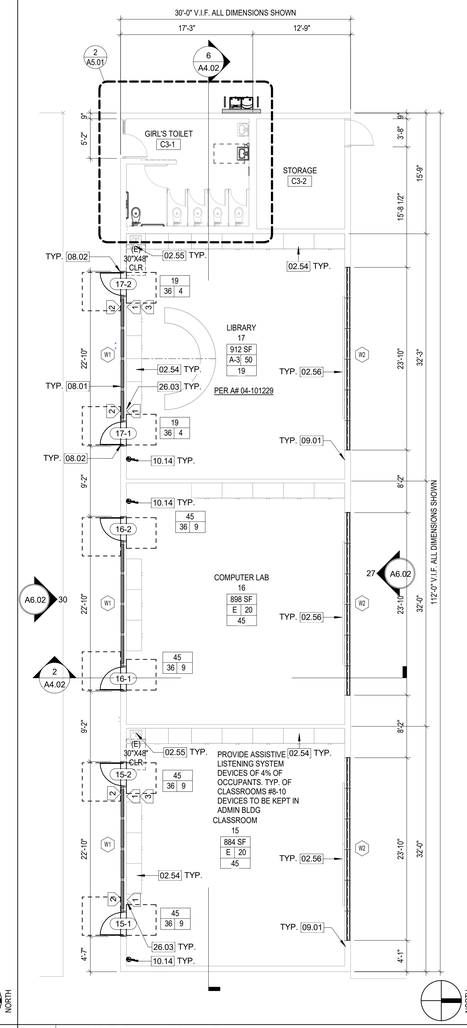
3. ASSISTIVE LISTENING SIGNAGE, SEE DETAIL 23 / A8.02



3 FLOOR PLAN - BUILDING C5
1/8" = 1'-0"



2 FLOOR PLAN - BUILDING C4
1/8" = 1'-0"



1 FLOOR PLAN - BUILDING C3
1/8" = 1'-0"

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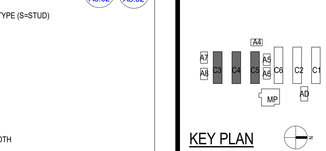

KEY PLAN NORTH: PLAN

Consultant

Architect

LICENSED ARCHITECT
Yong Yoo
No. C-31162
REN. 10-31-2023
STATE OF CALIFORNIA

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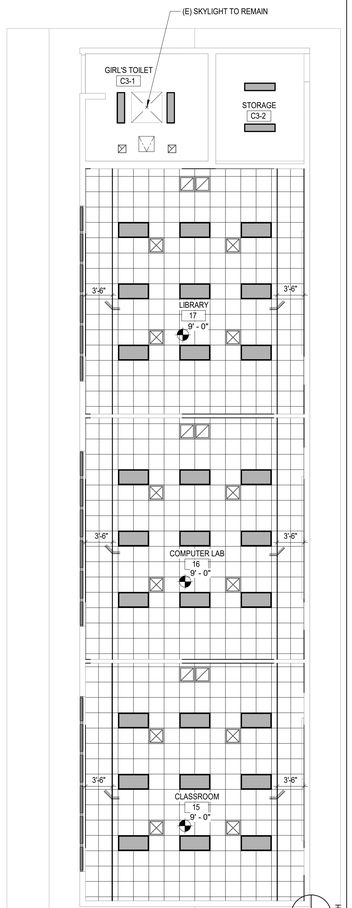
FLOOR PLANS BLDG C3,C4 & C5

A1.02

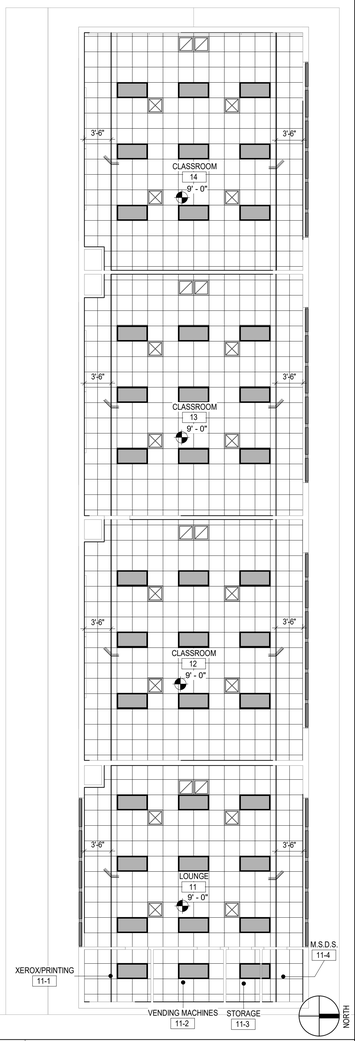
FILE PATH: Z:\Projects\...
5/30/2023 10:15:24 AM

A2.01 - REFLECTED CEILING PLANS BLDG CK, C1, C2, C6, C3 & ADMIN

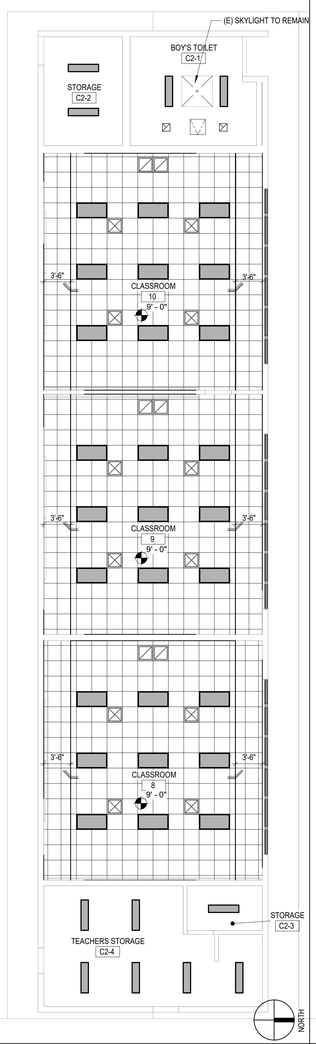
0" 1"



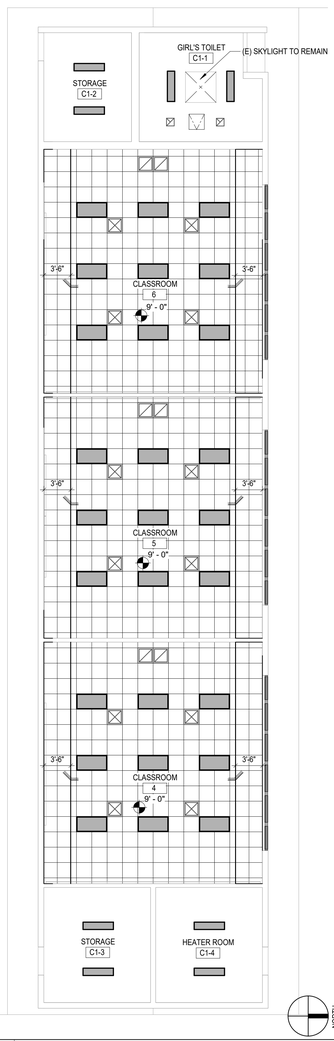
6 BUILDING C3 REFLECTED CEILING PLAN
1/8" = 1'-0"



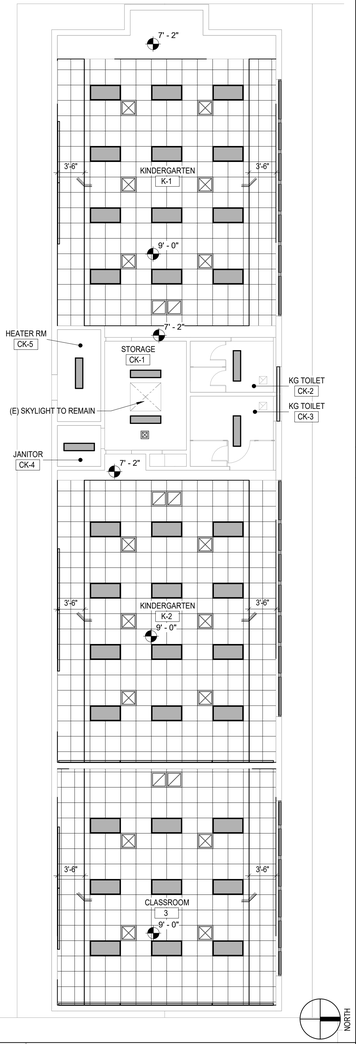
5 BUILDING C6 REFLECTED CEILING PLAN
1/8" = 1'-0"



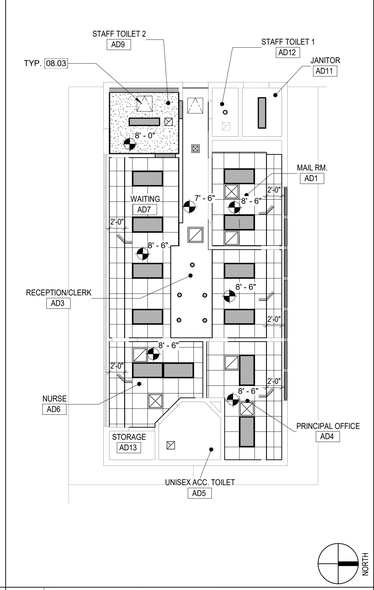
4 BUILDING C2 REFLECTED CEILING PLAN
1/8" = 1'-0"



3 BUILDING C1 REFLECTED CEILING PLAN
1/8" = 1'-0"



2 BUILDING CK REFLECTED CEILING PLAN
1/8" = 1'-0"



20 ADMIN BUILDING RCP
1/8" = 1'-0"

-CONSTRUCTION KEYED NOTES

#	Description
08.03	(N) CEILING ACCESS PANEL, MIN. 22"X30" ROUGH FRAME OPENING, AS REQUIRED PER CODE. TO ACCESS HEAT DETECTOR AND RELATED MECH/ELEC SYSTEMS. MATCH CEILING FINISH

REFLECTED CEILING PLAN LEGEND

- EXISTING PLASTER /GYP. BD. CEILING TO REMAIN. RE-PAINT TO MATCH EXISTING.
- NEW GYPSUM BOARD CEILING ATTACHED TO (E) CEILING JOIST. SEE DETAIL 5 / A8.03
- NEW 24" x 24" SUSPENDED ACOUSTIC CEILING TILE. SEE DETAIL 7 / A8.03
- NEW LIGHT FIXTURE(S). SEE ELECTRICAL DRAWINGS.
- MECHANICAL GRILLES, REFER TO MECHANICAL DRAWINGS AND STRUCTURAL DETAIL FOR HUNG UNITS. 10/M6.01 11/M6.01 19/M6.01 4/SD3
- ACCESS PANEL. SEE DETAIL 4 / A8.03
- CEILING SLOPE TRANSITION.
- CEILING HEIGHT

NOTE:
ALL (E) BLDGS ARE NON-SPRINKLERED

GENERAL CEILING PLAN NOTES

1. REFER TO AND COORD. WITH ROOM FINISH SCHEDULES FOR SPECIFIC CEILING TYPES.
2. ALL SCHEDULED CEILING HEIGHTS ARE FROM THE MAIN FLOOR LEVEL WITHIN THE ROOM AND OR SPACE. AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.
3. NO FIRE SPRINKLER HEADS ARE SHOWN ON ARCH. CEILING PLANS. ALL SPRINKLER HEADS SHALL BE CENTERED WITHIN CEILING TILES U.N.O.
4. ONLY CEILING MOUNTED FIXTURES AND EQUIP. IS SHOWN ON ARCH. CEILING PLANS. REFER TO INTERIOR ELEVATIONS FOR WALL MOUNTED FIXTURES. REFER TO MEPT DOCUMENTS FOR ADDITIONAL INFORMATION CONCERNING CEILING MOUNTED FIXTURES AND OR WALL MOUNTED FIXTURES.
5. CEILING MOUNTED LIGHT FIXTURES ARE SHOWN FOR LOCATION PURPOSES ONLY. COORD. WITH ELEC. DOCUMENTS FOR LIGHT FIXTURE DESIGNATIONS.
6. CEILING MOUNTED LIGHT FIXTURES WITHIN FIRE RATED CEILING ASSEMBLIES SHALL HAVE LIGHT FIXTURE PROTECTION AND BE TENTED OR OTHERWISE FIRE RATED TO MATCH CEILING ASSEMBLY FIRE RATING.
7. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEPT DOCUMENTS. COORD. LOCATIONS OF CEILING ACCESS PANELS WITH ARCH. PRIOR TO INSTALLATION. CEILING ACCESS PANEL FIRE RATINGS SHALL MATCH CEILING ASSEMBLY FIRE RATINGS.
8. REFER TO WALL SECTIONS FOR WALL-CEILING INTERFACE
9. EXISTING CEILING ACCESS PANEL TO REMAIN.
10. PROVIDE NEW CEILING ACCESS PANEL WHERE REQUIRED PER CODE.

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A2.01

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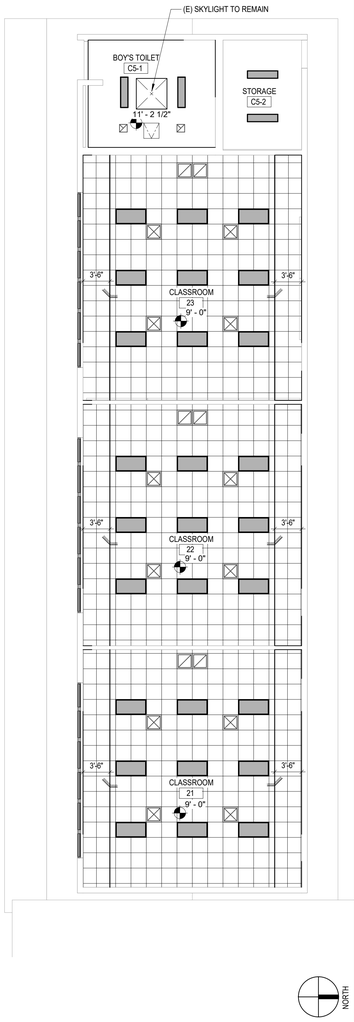
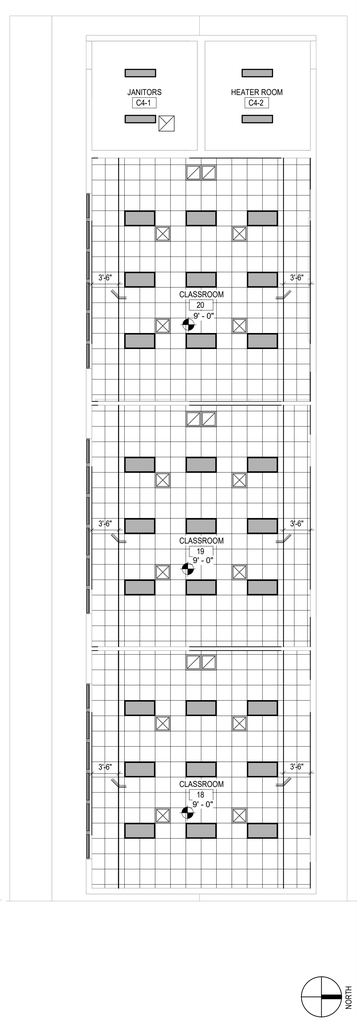
A2.02 - REFLECTED CEILING PLANS BLDG C4 & C5

0" 1"



2 BUILDING C5 REFLECTED CEILING PLAN
1/8" = 1'-0"



1 BUILDING C4 REFLECTED CEILING PLAN
1/8" = 1'-0"

REFLECTED CEILING PLAN LEGEND

- EXISTING PLASTER /GYP. BD. CEILING TO REMAIN. RE-PAINT TO MATCH EXISTING.
- NEW GYPSUM BOARD CEILING ATTACHED TO (E) CEILING JOIST. SEE DETAIL 5 / A8.03
- NEW 24" x 24" SUSPENDED ACOUSTIC CEILING TILE. SEE DETAIL 7 / A8.03
- NEW LIGHT FIXTURE(S). SEE ELECTRICAL DRAWINGS.
- MECHANICAL GRILLES, REFER TO MECHANICAL DRAWINGS AND STRUCTURAL DETAIL FOR HUNG UNITS. 10 / M6.01, 11 / M6.01, 19 / M6.01, 4 / SD3
- ACCESS PANEL. SEE DETAIL 4 / A8.03
- CEILING SLOPE TRANSITION.
- CEILING HEIGHT

NOTE:
ALL (E) BLDGS ARE NON-SPRINKLERED

GENERAL CEILING PLAN NOTES

1. REFER TO AND COORD. WITH ROOM FINISH SCHEDULES FOR SPECIFIC CEILING TYPES.
2. ALL SCHEDULED CEILING HEIGHTS ARE FROM THE MAIN FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.
3. NO FIRE SPRINKLER HEADS ARE SHOWN ON ARCH. CEILING PLANS. ALL SPRINKLER HEADS SHALL BE CENTERED WITHIN CEILING TILES U.N.O.
4. ONLY CEILING MOUNTED FIXTURES AND EQUIP. IS SHOWN ON ARCH. CEILING PLANS. REFER TO INTERIOR ELEVATIONS FOR WALL MOUNTED FIXTURES. REFER TO MEPT DOCUMENTS FOR ADDITIONAL INFORMATION CONCERNING CEILING MOUNTED FIXTURES AND OR WALL MOUNTED FIXTURES.
5. CEILING MOUNTED LIGHT FIXTURES ARE SHOWN FOR LOCATION PURPOSES ONLY. COORD. WITH ELEC. DOCUMENTS FOR LIGHT FIXTURE DESIGNATIONS.
6. CEILING MOUNTED LIGHT FIXTURES WITHIN FIRE RATED CEILING ASSEMBLIES SHALL HAVE LIGHT FIXTURE PROTECTION AND BE TENTED OR OTHERWISE FIRE RATED TO MATCH CEILING ASSEMBLY FIRE RATING.
7. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEPT DOCUMENTS. COORD. LOCATIONS OF CEILING ACCESS PANELS WITH ARCH. PRIOR TO INSTALLATION. CEILING ACCESS PANEL FIRE RATINGS SHALL MATCH CEILING ASSEMBLY FIRE RATINGS.
8. REFER TO WALL SECTIONS FOR WALL-CEILING INTERFACE
9. EXISTING CEILING ACCESS PANEL TO REMAIN.
10. PROVIDE NEW CEILING ACCESS PANEL WHERE REQUIRED PER CODE.

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DIV. OF THE STATE ARCHITECT
APP: 04-121814 INC:
REVIEWED FOR
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DATE: 08/11/2023

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FINLEY ES HVAC UPGRADE & MODERNIZATION

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DSA SUBMITTAL

DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43

KEY PLAN
NORTH: PLAN

Consultant

Architect
LICENSED ARCHITECT
Jong Yoo
No. C-31162
REN. 10-31-2023
STATE OF CALIFORNIA

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
05-16-2023	220307

REVISIONS

No.	Description	Date

DSA SUBMITTAL

REFLECTED CEILING PLANS BLDG C4 & C5

A2.02

EXISTING AREAS TO REMAIN - NIC

28 LEGEND

1. REMOVE AND PROPERLY DISPOSE OF EXISTING ROOFING (WEIGHING APPROXIMATELY 8 LBS/SF) / INSULATION (RE: 3/A4.11) DOWN TO EXISTING ROOF DECK AT ROOF AREAS ADMIN, KINDERGARTEN, BLDG C1, C2, C3, C4, C5,C6, MPR & ALL RELOCATABLES. PREPARE / REPAIR EXISTING VERTICAL FASCIA NAILER (INCLUDE 100 IN FT OF REPLACEMENT) FOR INSTALLATION OF NEW CLASS "A" ROOF SYSTEM. PREPARE / REPAIR EXISTING ROOF DECK WITH LIKE KIND MATERIAL AND ATTACHMENT. MECHANICALLY ATTACH NEW BASE SHEET, HEAT WELD MODIFIED BITUMEN BASE PLY ROOF MEMBRANE, ENSURE IS WATER TIGHT PRIOR TO COVERING UP. HEAT WELD MODIFIED BITUMEN TITLE 24 FINISH PLY ROOF MEMBRANE WITH ASSOCIATED ROOF RELATED SHEET METAL, GUTTERS, DOWNSPOUTS, EDGE METALS AND TRIM. THE TOTAL WEIGHT OF THE NEW COMPLETED ROOF IS NOT TO EXCEED 5 LBS/SF.

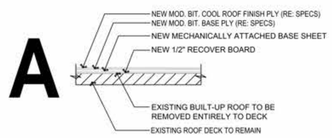
2. PROVIDE R-30 BATT INSULATION UNDER ROOF DECK PER SPEC SECTION 07 21 00.

3. REPLACE OR REPAIR ALL EXISTING ROOF DAMAGE.

4. REPLACE EXISTING ROOF FASCIA WITH "TREX" COMPOSITE FASCIA, MATCH EXISTING FACIA PROFILE.

5. ROOFING TO BE CLASS A ASSEMBLY.

27 SCOPE OF WORK



26 NEW NOMENCLATURE

ROOF SCHEDULE

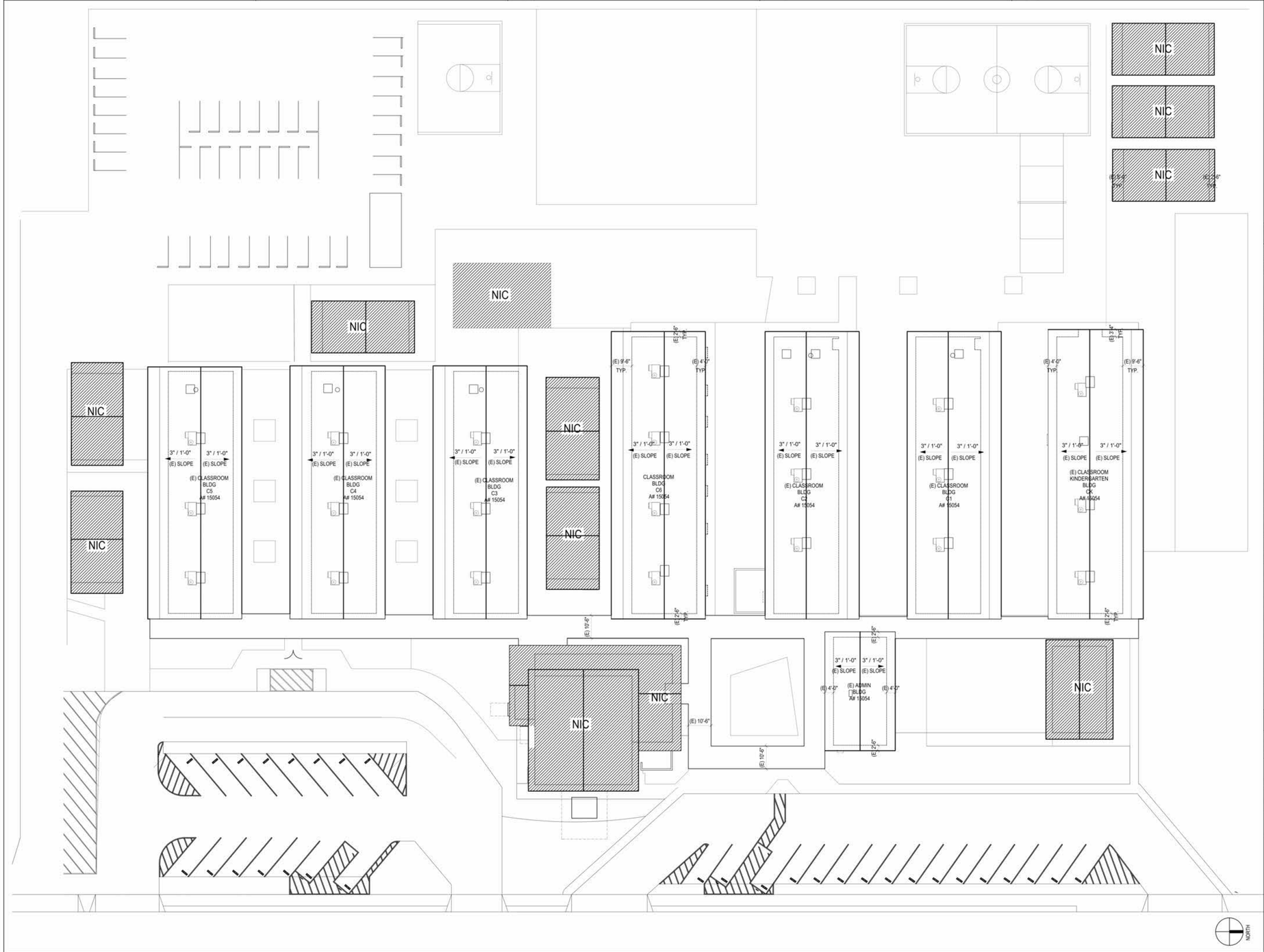
ROOF AREA	APPROX. SQ.FT.	EXISTING ROOF	NEW ROOF PER 19/A3.01	REMARKS
BLDG ADMIN	1845 SF	WD/SS/BUR-A	A	
BLDG C1	5210 SF	WD/SS/BUR-A	A	
BLDG C1 OVERHANG	754 SF	WD/SS/BUR-A	A	
BLDG C2	5210 SF	WD/SS/BUR-A	A	
BLDG C2 OVERHANG	754 SF	WD/SS/BUR-A	A	
BLDG C3	4586 SF	WD/SS/BUR-A	A	
BLDG C3 OVERHANG	664 SF	WD/SS/BUR-A	A	
BLDG C4	4646 SF	WD/SS/BUR-A	A	
BLDG C4 OVERHANG	664 SF	WD/SS/BUR-A	A	
BLDG C5	4565 SF	WD/SS/BUR-A	A	
BLDG C5 OVERHANG	661 SF	WD/SS/BUR-A	A	
BLDG C6	5210 SF	WD/SS/BUR-A	A	
BLDG C6 OVERHANG	754 SF	WD/SS/BUR-A	A	
BLDG CK	5313 SF	WD/SS/BUR-A	A	
BLDG CK OVERHANG	758 SF	WD/SS/BUR-A	A	
COVERED WALKWAY	6833 SF	WD/SS/BUR-A	A	
RELO CC BLDG A9	1426 SF	N/A	N/A	
RELO CLASSROOM A1	1140 SF	N/A	N/A	
RELO CLASSROOM A2	1141 SF	N/A	N/A	
RELO CLASSROOM A3	1140 SF	N/A	N/A	
RELO CLASSROOM A4	1140 SF	N/A	N/A	
RELO CLASSROOM A5	1140 SF	N/A	N/A	
RELO CLASSROOM A6	1140 SF	N/A	N/A	
RELO CLASSROOM A7	1140 SF	N/A	N/A	
RELO CLASSROOM A8	1140 SF	N/A	N/A	

NOTE:
SQUARE FOOTAGES SHOWN ARE FOR REFERENCE ONLY - (FIELD VERIFY) CONSTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS AND FOR ENSURING NEW CONDITIONS ADHERE TO ALL LOCAL AND FEDERAL CODES ALONG WITH INDUSTRY STANDARD GUIDELINES AND REMAIN IN A WATERTIGHT CONDITION.

SEE SPECIFICATION DIVISION 7 FOR OTHER ROOF RELATED COMPONENTS.

ABBREVIATIONS:

WD: WOOD ROOF DECK
SS: SLIP SHEET
BUR-A: MULTI-PLY BUILT-UP OOF SYSTEM W/ ALUMINUM COATING



6 OVERALL ROOF PLAN
1" = 20'-0"

19 EXISTING NOMENCLATURE

A. CONTRACTOR SHALL VISIT SITE TO ASCERTAIN EXACT EXISTING CONDITIONS AND COMPONENTS RELATED TO THE WORK DESCRIBED BY THESE DOCUMENTS. AFTER AWARD OF THE CONTRACT, CHANGE ORDER REQUEST FOR ADDITIONAL MONEY SHALL NOT BE APPROVED IF THE WORK COULD HAVE BEEN ANTICIPATED DURING THE SITE VISIT BY THE CONTRACTOR. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ACCEPTED MANUFACTURER'S PRINTED INSTRUCTIONS & WARRANTY REQUIREMENTS.

B. DIMENSIONS,DETAILS, EQUIPMENT SIZE AND LOCATION SHOWN IN THESE DOCUMENTS ARE FOR INFORMATION AND REFERENCE ONLY. EXACT SIZE, LOCATION, TYPE OF MATERIAL AND TYPE OF CONSTRUCTION OF EXISTING CONDITIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR TO ASCERTAIN & CONFIRM.

C. ALL NEW CRICKETS AND TAPERED INSULATION SHALL BE INSTALLED WITH A FINISHED 1/4" PER FOOT MIN. SLOPE. CRICKET THE UP SLOPE SIDE OF ALL SQUARE CURBS AND PROJECTIONS.

D. REMOVE ALL ABANDONED EQUIP. IDENTIFIED ON ROOF TOP AND AS SHOWN ON DRAWINGS -(PATCH DECK) HOLES LESS THAN 10" WIDE- SCREW 22 GA. STAINLESS STEEL SHEET METAL TO EXISTING DECK HOLES GREATER THAN 10" WIDE- SCREW NEW METAL DECK (MATCH EXISTING) SPAN FROM JOIST TO JOIST.

E. ALL HVAC AND/OR DX UNITS, ELECTRICAL TRANSFORMERS, ROOF TOP EQUIPMENT, ETC. THAT ARE ON SLEEPERS SHALL BE DISCONNECTED/REMOVED, RAISED, & PLACED ON NEW CURBED PLATFORMS (RE: DETAIL), AND RECONNECTED/RE-INSTALLED. VERIFY ALL EXISTING CURB MOUNTED UNITS, EQUIPMENT, ETC. HAVE A MINIMUM 10" CURB HEIGHT (RAISED AS REQUIRED) - ALL DISCONNECTS AND RECONNECTS SHALL BE PERFORMED BY A LICENSED ELECTRICIAN.

F. IF EXISTING ELECTRICAL/GAS/WATER/ETC. LINES ARE MODIFIED- ONLY LICENSED SUBCONTRACTORS SPECIALIZING IN HVAC, PLUMBING AND ELECTRICAL SHALL PERFORM THAT TYPE OF WORK. PERMITS AND INSPECTIONS REQUIRED- PROVIDE "MERCURY" GAS LINE TEST (COORDINATE OWNER/ARCHITECT WITNESS OF TEST), REPAIR ALL LEAKS AND RE-TEST

G. REPLACE AND RAISE (AS REQUIRED) ALL EXISTING EXPANSION JOINTS/AREA DIVIDERS/ CURB MOUNTED EQUIPMENT/ SKYLIGHTS A MIN. 10" ABOVE ROOF DECK. (UNLESS INDICATED OTHER WISE ON DRAWING.)

H. ENSURE ALL SOIL STACK FLASHING IS MIN. 10" ABOVE ROOF. COUPLE PVC PIPE ABOVE DECK, COUPLE CAST IRON PIPE UNDER DECK.

I. PROVIDE SHEET METAL HOODED (w/METAL FACE CLOSURE), WOOD CURB, BOX COVER AT ALL GAS LINE AND WATER LINE ROOF PENETRATIONS (RE: DETAILS). ENSURE LINES SLOPE AWAY FROM FACE COVER.

J. PROVIDE WALKWAY PROTECTION PADS (AS ACCEPTABLE TO MANUFACTURER-RE: SPECS.) AROUND ALL ROOF HATCHES, A/C UNITS, DOORS THAT OPEN ONTO ROOF, AND AT ALL ROOF TOP ACCESS LADDERS (TOP & BOTTOM)

K. ISOLATE ALL HEAT PIPES/FLUES AS RECOMMENDED & OUTLINED IN THE NRCA MANUAL FOR ISOLATED STACK FLASHING- (RE:DETAILS)

L. ALL OUTSIDE AIR INTAKES SHALL BE COVERED TO ELIMINATE ODORS AND FUMES FROM ENTERING INTO THE BUILDING DURING WORK.

M. EXAMINE AND CLEAN EXISTING DRAIN LINES OF DEBRIS AND BLOCKAGE, FLUSH WITH WATER TO ENSURE THAT DRAINS FLOW FREELY.

N. OWNER WILL VERIFY CORRECT OPERATION OF ALL ROOF TOP EQUIPMENT BEFORE AND AFTER PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING ALL INOPERABLE EQUIPMENT PRIOR TO RELEASE OF RETAINAGE.

O. REPLACE ALL RUSTED/DETERIORATED EXISTING METAL VENT FLASHING AND FLUES.

P. COORDINATE WALK OF ENTIRE ROOF (PRIOR TO STARTING) WITH ROOFING MANUFACTURER'S TECHNICAL REP. TO IDENTIFY AND LOCATE ALL AREAS OF HIGH SLOPE WHICH MIGHT REQUIRE SPECIAL PROCEDURES FOR SYSTEM ATTACHMENT.

Q. PROVIDE ONE-WAY MOISTURE VENTS 1 PER 900 SF AT ALL LT. WT. OVER POUR AREAS

7 GENERAL NOTES
3" = 1'-0"

GENERAL
SHEET NUMBER SHEET NAMES

BUILDING ENVELOPE

A3.01	SITE PLAN
A3.02	ENLARGE ROOF PLAN
A3.03	ROOF DETAILS

1 INDEX OF DRAWINGS

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DATE: 08/11/2023

PBK

WESTMINSTER SCHOOL DISTRICT

BEAM PROFESSIONALS

LICENSED ARCHITECT
Tong You
No. C-31162
RENEWAL 10-31-2023
STATE OF CALIFORNIA

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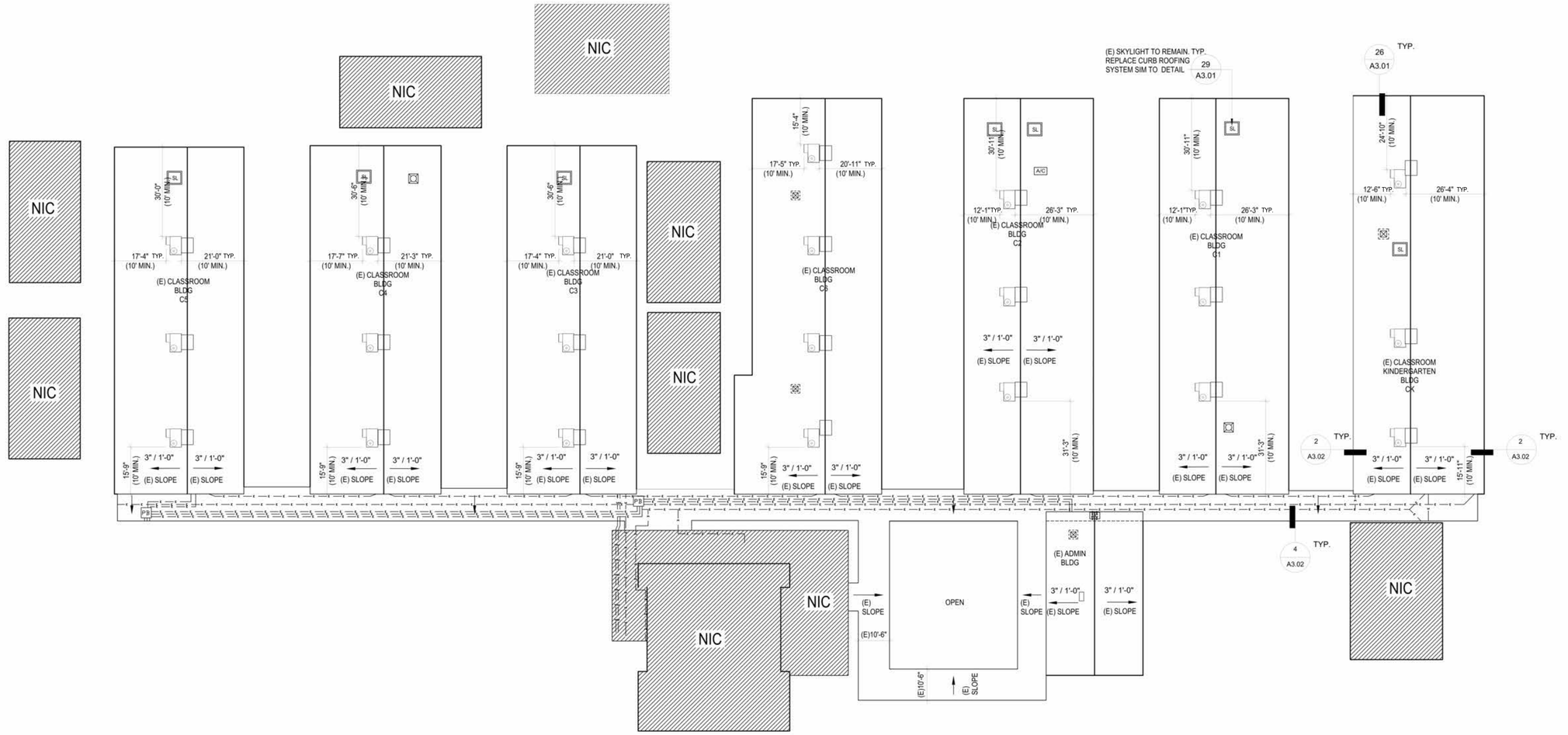
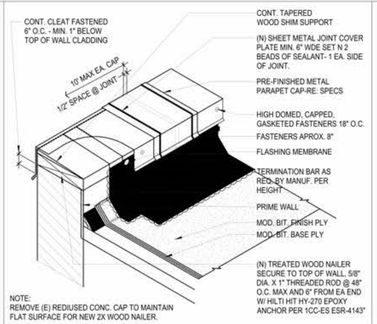
A3.02 - ENLARGED ROOF PLAN

0" 1"



18 ENLARGED ROOF PLAN 1/16"=1'-0"



8 (N) PARAPET BASE + CAP

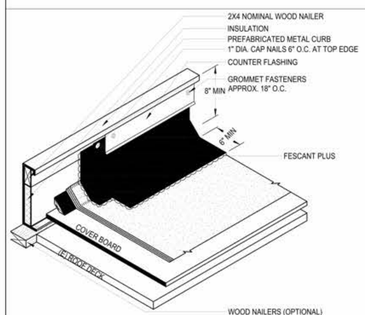
7 KEYNOTES

GENERAL INFO. BASE SYSTEM

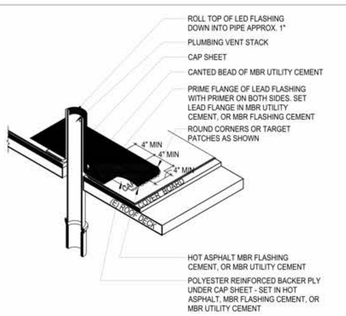
PLUMBING VENT	GOOSE NECK VENT	PB	PIPE BOX
FLANGE VENT	A/C CURB MOUNTED A/C		RIDGE LINE
PITCH PAN	SPLASH BLOCK		EXISTING AREAS TO REMAIN - NIC
NEW ROOF DRAIN	SPLASH PAN		
EXIST. ROOF DRAIN	A/C ON POSTS		NEW TAPERED INSULATION / CRICKET
OVERFLOW DRAIN	ROOF HATCH	A1	ROOF AREA DESIGNATION
WALL DRAIN	SL SKYLIGHT		
CURB MOUNTED VENT	ANTENNA		TAPERED LIGHTWEIGHT CONCRETE
CURB MOUNTED VENT	SATELLITE DISH		
ABANDONED CURB TO BE REMOVED/PATCHED	SC SCUPPER		DESIGNATES EXTENTS OF WORK IDENTIFIED BY KEYED NOTES
GUY WIRE	GUTTER		
POWER VENT	DS DOWNSPOUT		EXPANSION JOINT
HEATER VENT	WALL LADDER		CONDINSATE LINE
BOILER VENT	SWING LADDER		
TURBINE VENT	G GAS LINE	W	WATER LINE
A ABANDON EQUIP.	E ELEC. LINE		

1 GENERAL LEGEND

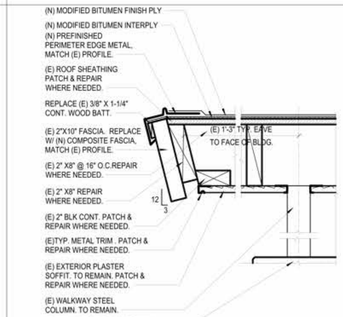
GENERAL INFO. BASE SYSTEM



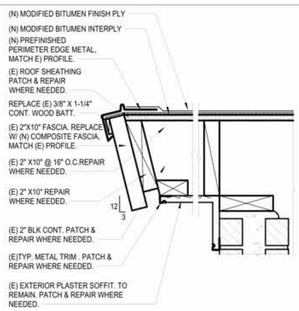
6 (N) PREFABRICATED CURB NTS



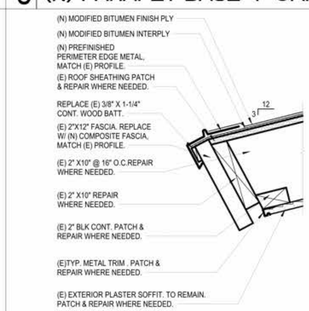
5 (N) PLUMBING VENT THRU ROOF NTS



4 TYP COVERED WALKWAY DETAIL



3 TYP ROOF RAKE DETAIL NTS



2 TYP ROOF EAVE DETAIL NTS

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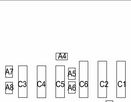
13621 Edwards St.
Westminster, CA 92683

DSA SUBMITTAL

DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43

WESTMINSTER SCHOOL DISTRICT



KEY PLAN NORTH: PLAN

BEAM PROFESSIONALS

Architect

LICENSED ARCHITECT
Tong You
No. C-31162
REN. 10-31-2023
STATE OF CALIFORNIA

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
05-16-2023	220307

REVISIONS

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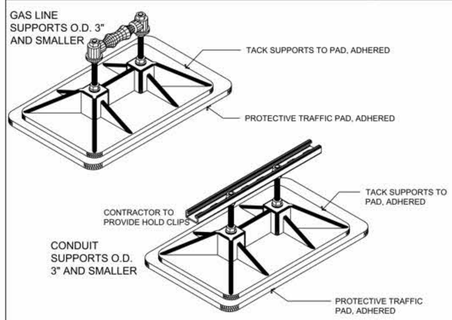
ENLARGED ROOF PLAN

A3.02

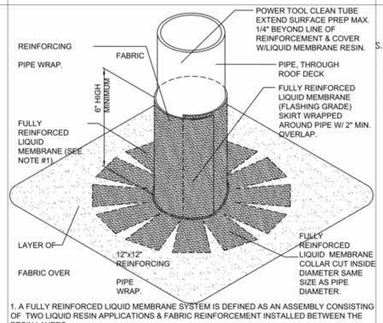
A3.03 - ROOF DETAILS - MOD. BIT.

0" 1"



18 PIPE SUPPORT

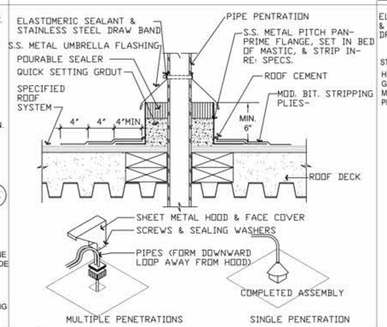
07M-PS01.dwg N.T.S



1. A FULLY REINFORCED LIQUID MEMBRANE SYSTEM IS DEFINED AS AN ASSEMBLY CONSISTING OF TWO LIQUID RESIN APPLICATIONS & FABRIC REINFORCEMENT INSTALLED BETWEEN THE RESIN LAYERS.

16 TYPICAL VENT PIPE FLASHING

07M-FP01.dwg NTS



15 PITCH PAN

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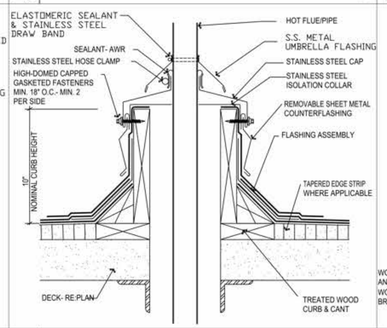
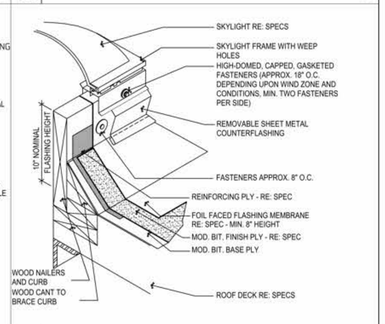


14 HOT STACK - GENERAL INFORMATION

N.T.S.



13 SKYLIGHT CURB

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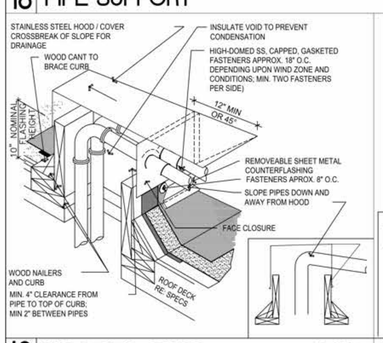

12 HOODED CURB

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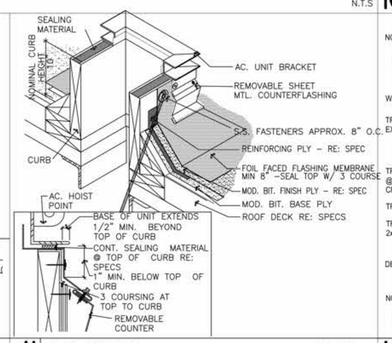

11 AC CURB

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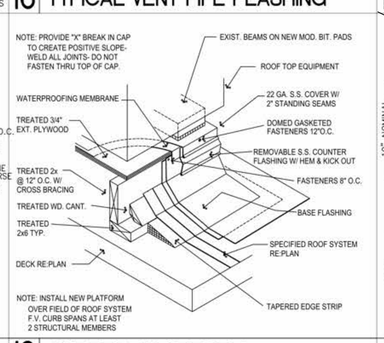
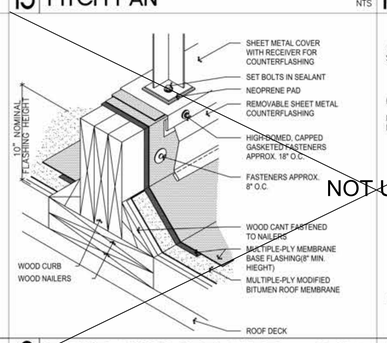


10 CURBED PLATFORM -



NOT USED

9 EQUIP. SUPPORT CURB

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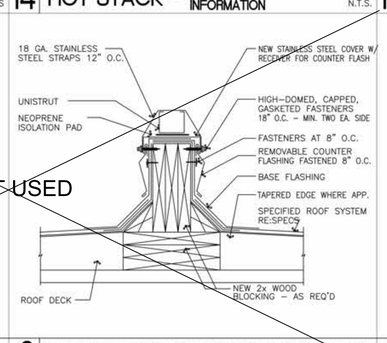
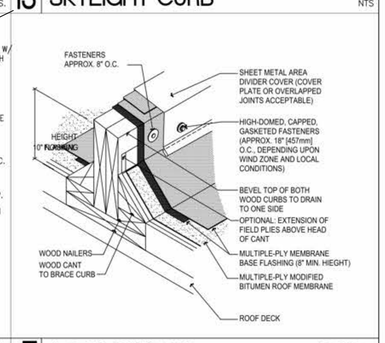


8 EQUIPMENT SUPPORT CURB

07M-CF06 NTS



7 AREA DIVIDER

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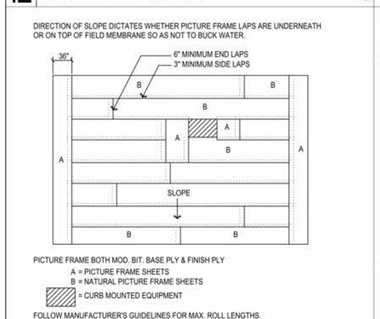

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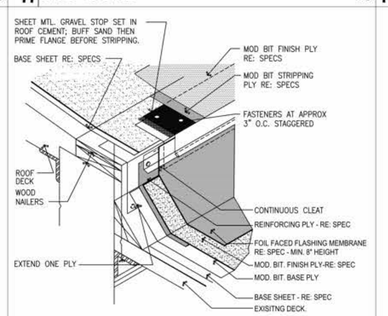
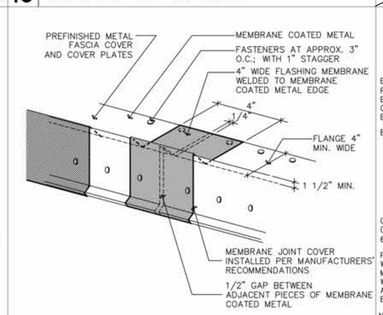


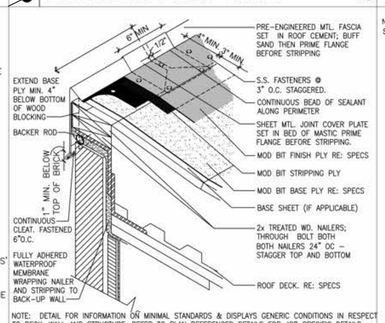
5 ROOF HIGH/LOW

NTS



4 COVER PLATE

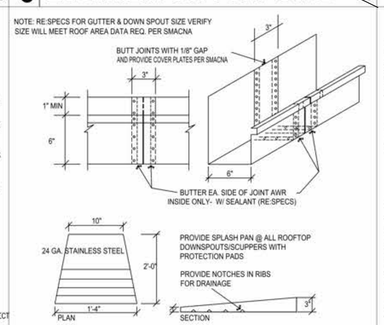
NTS



NOTE: DETAIL FOR INFORMATION ON MINIMAL STANDARDS & DISPLAYS GENERIC CONDITIONS IN RESPECT TO DECK, WALL AND STRUCTURE. REFER TO PLAN REFERENCED DETAILS FOR JOB SPECIFIC DETAILS.

3 ROOF EDGE

07M-PE01.dwg NTS



2 GUTTER JOINT

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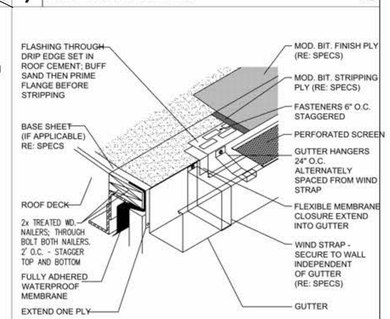

1 ROOF EDGE

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SS ☑ FLS ☑ ACS ☑
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PBK

ARCHITECT PBK Architects, Inc.
PBK.com
ANAHEIM
2400 E. Katella Ave. #910
Anaheim, CA 92806
P 949-548-5000

FINLEY ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
13521 Edwards St.
Westminster, CA 92683

DSA SUBMITTAL

DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43

WESTMINSTER SCHOOL DISTRICT

A1 A2 A3 A4 A5 A6 A7 A8 A9 C1 C2 C3 C4 C5 C6 C7 C8 MP

KEY PLAN NORTH: PLAN

BEAM PROFESSIONALS

Architect
LICENSED ARCHITECT Yong Yoo No. C-31162 REN. 10-31-2023 STATE OF CALIFORNIA

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
05-16-2023	220307

REVISIONS

No.	Description	Date

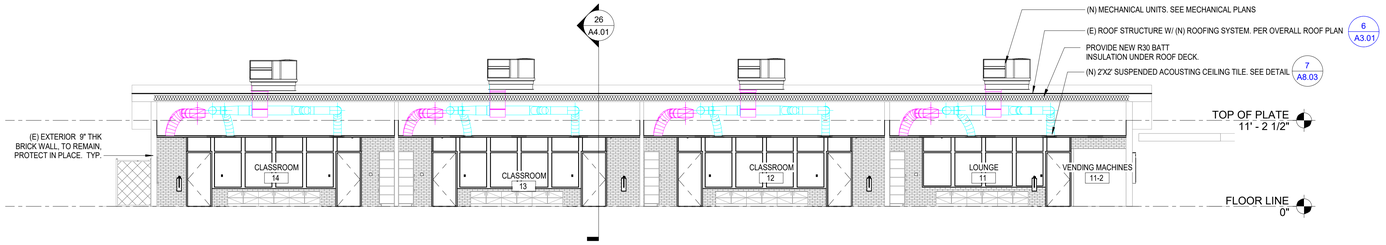
DSA SUBMITTAL

ROOF DETAILS - MOD. BIT.

A3.03

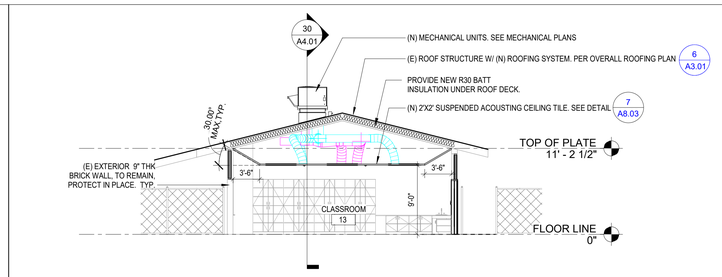
A4.01 - BUILDING SECTIONS

0" 1"



30 BLDG C6 - SECTION B

1/8" = 1'-0"



26 BLDG C6 - SECTION A

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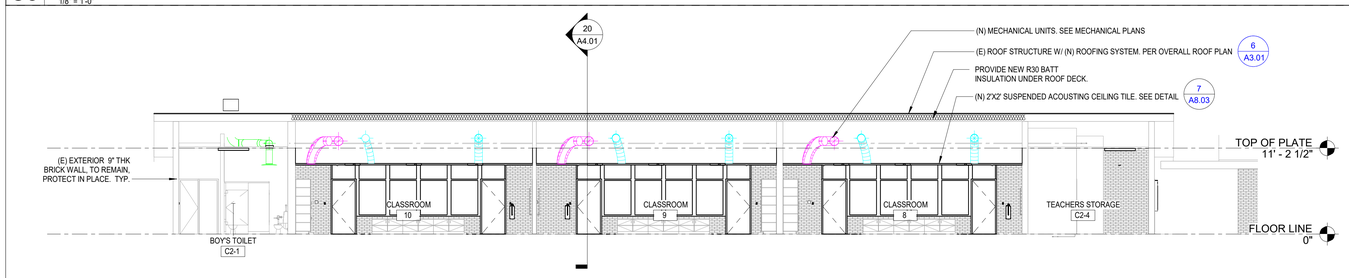

24 BLDG C2 - SECTION B

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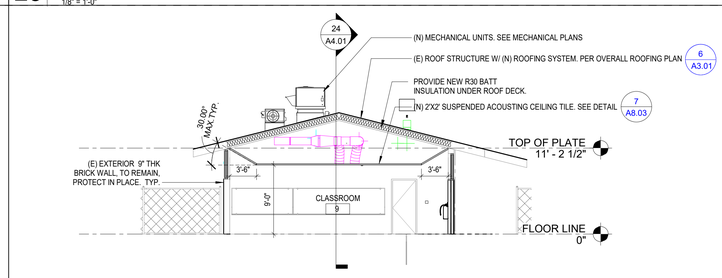
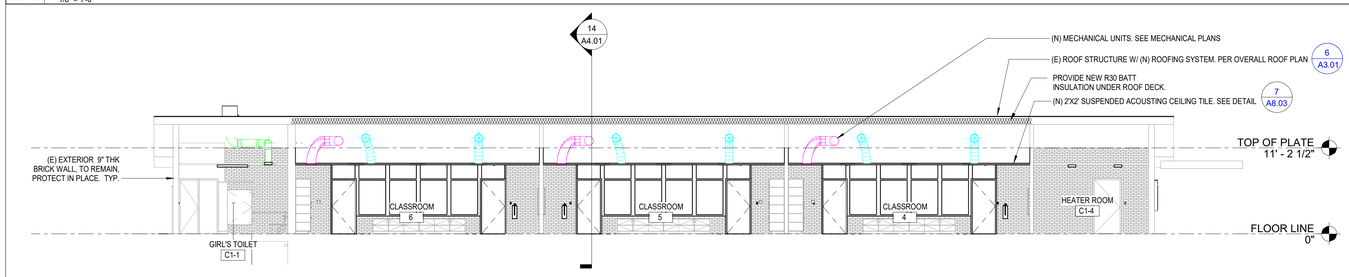


20 BLDG C2 - SECTION A

1/8" = 1'-0"



18 BLDG C1 - SECTION B

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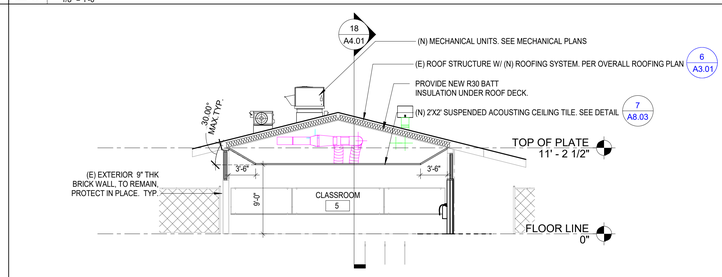
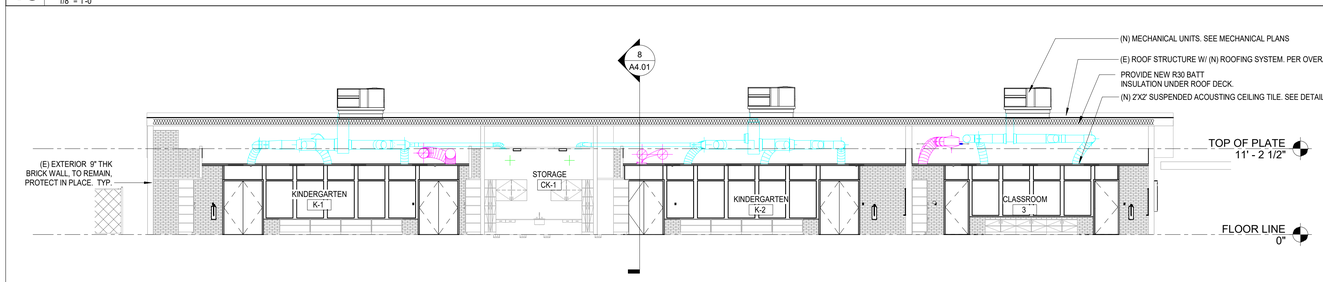


14 BLDG C1 - SECTION A

1/8" = 1'-0"



12 BLDG CK - SECTION B

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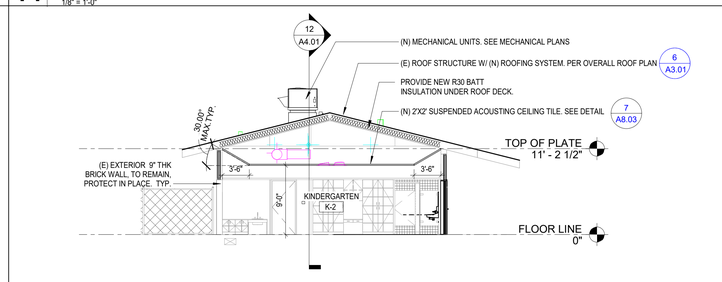

8 BLDG CK - SECTION A

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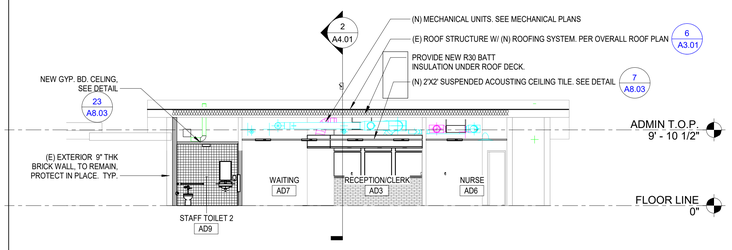

4 BLDG ADMIN - SECTION B

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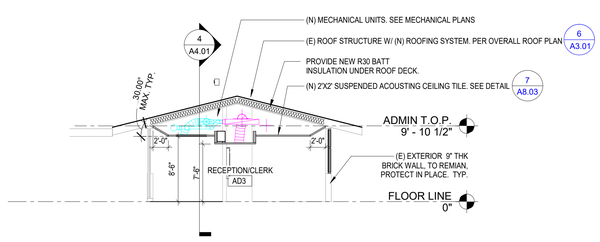

2 BLDG ADMIN - SECTION A

1/8" = 1'-0"

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Westminster, CA 92683

DSA SUBMITTAL

DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43

WESTMINSTER SCHOOL DISTRICT

KEY PLAN

NORTH: PLAN

Consultant

Architect

LICENSED ARCHITECT
Tong Yao
No. C-31162
RENEW 10-31-2023
STATE OF CALIFORNIA

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
05-16-2023	220307

REVISIONS

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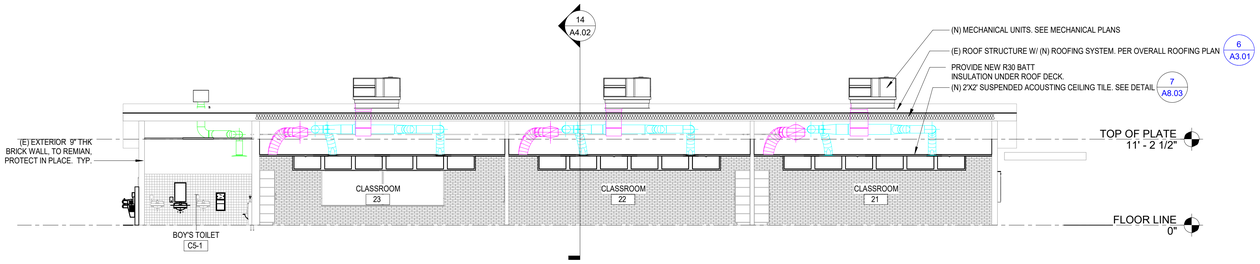
DSA SUBMITTAL

BUILDING SECTIONS

A4.01

A4.02 - BUILDING SECTIONS

0" 1"



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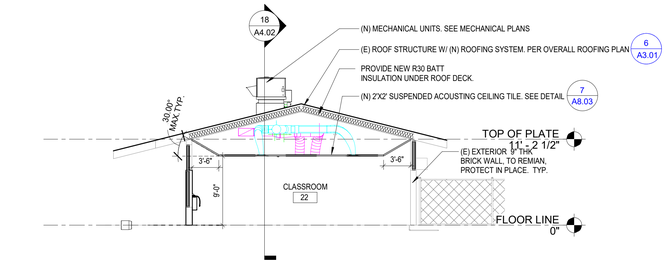
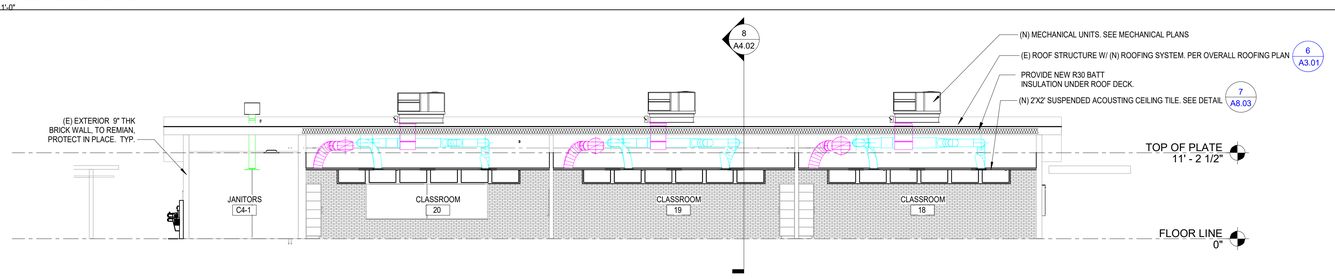


14 BLDG C5 - SECTION A
1/8" = 1'-0"



12 BLDG C4 - SECTION B
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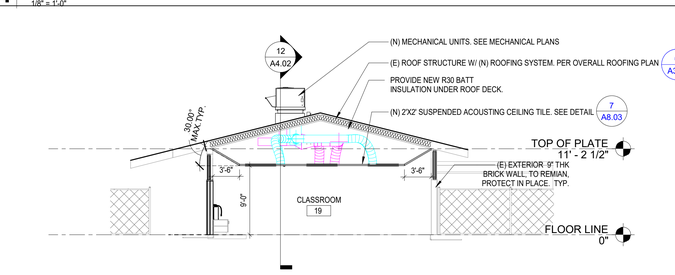

8 BLDG C4 - SECTION A
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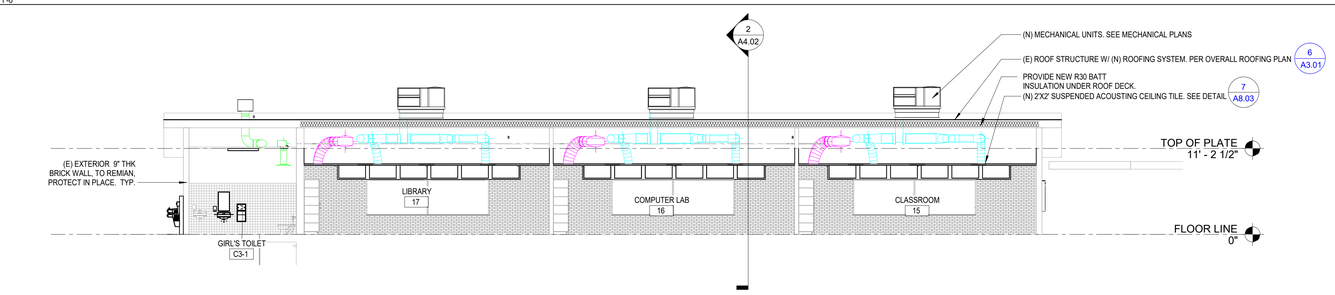
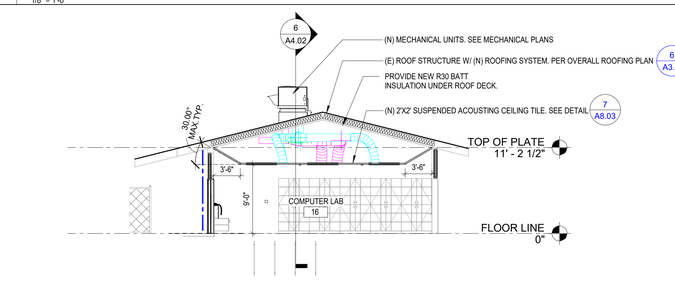


6 BLDG C3 - SECTION B
1/8" = 1'-0"



2 BLDG C3 - SECTION A
1/8" = 1'-0"

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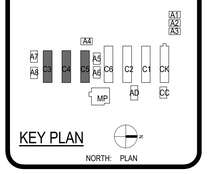
WESTMINSTER SCHOOL DISTRICT



KEY PLAN
NORTH: PLAN

Consultant

Architect
LICENSED ARCHITECT
Tong Yao
No. C-31162
RENEW 10-31-2023
STATE OF CALIFORNIA

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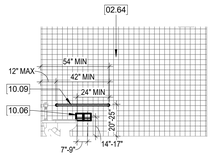
BUILDING SECTIONS

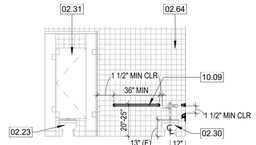
A4.02

A5.01 - ENLARGED RESTROOM PLANS & INTERIOR ELEVATIONS

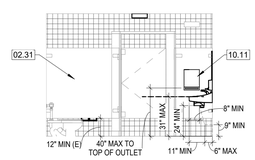
0" 1"



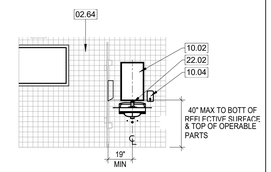
30D WEST
1/4" = 1'-0"



30C SOUTH
1/4" = 1'-0"

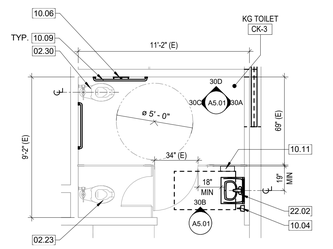


30B LAV. WEST
1/4" = 1'-0"



30A NORTH
1/4" = 1'-0"

30 ELEVATIONS - CK-3 KINDERGARTEN TOILETS (AGES 5-8)
1/4" = 1' - 0"



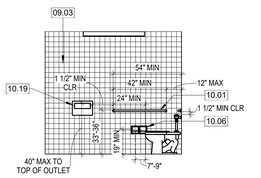
PER A# 04-101229

NORTH

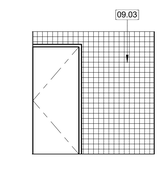
26 PLAN - CK-3 KINDER TOILET (AGES 5-8)
1/4" = 1'-0"

CONSTRUCTION KEYED NOTES

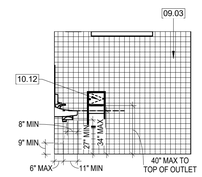
02.20	(E) LAVATORY TO REMAIN
02.21	(E) SOAP DISPENSER TO REMAIN
02.22	(E) URINAL TO REMAIN
02.23	(E) TOILET FIXTURE TO REMAIN
02.30	(E) ACCESSIBLE TOILET FIXTURE TO REMAIN
02.31	(E) FLOOR MOUNTED OVERHEAD BRACED SOLID PLASTIC TOILET PARTITION TO REMAIN
02.64	(E) CERAMIC TILE TO REMAIN, PROTECT IN PLACE
02.65	(E) WALL FINISH TO REMAIN, PROTECT IN PLACE
09.01	(N) INTERIOR PAINT FINISH, SEE FINISH SCHEDULE
09.03	(N) 4X4 CERAMIC TILE. PROVIDE GREENBOARD SUBSTRATE AT (E) BRICK SURFACES.
10.01	(N) WALL MOUNTED GRAB BAR, MOUNT PER DETAIL 27/A8.02
10.02	(N) WALL MOUNTED MIRROR
10.03	NEW LOCATION FOR (E) HAND SOAP DISPENSER
10.04	(N) WALL MOUNTED HAND SOAP DISPENSER
10.06	(N) SEMI-RECESSED TOILET PAPER DISPENSER, 4" MAX PROTRUSION
10.08	(N) SOLID PLASTIC TOILET PARTITION, FOR MOUNTING SEE DETL 12/A8.03
10.09	NEW LOCATION FOR (E) GRAB BAR, FOR MOUNTING SEE DETL 27/A8.02
10.11	(N) PAPER TOWEL DISPENSER, 4" MAX PROTRUSION
10.12	(N) COMBO PAPER TOWEL DISPENSER & WASTE RECEPTACLE, 4" MAX PROTRUSION
10.13	(N) SURFACE MOUNT TOILET PAPER DISPENSER, 4" MAX PROTRUSION
10.15	TACTILE RESTROOM DOOR & WALL SIGN, REF DETAIL 24/A8.02
10.19	(N) TOILET SEAT COVER DISPENSER, 4" MAX PROTRUSION
22.01	(N) ACCESSIBLE DRINKING FOUNTAIN W/ BOTTLE FILLER AND WING GUARDS. SEE DETAIL 18/G4
22.02	(N) WALL MOUNTED LAVATORY, BACKING SUPPORT PER DETL 6/A8.03
22.03	(N) FLOOR MOUNTED ACCESSIBLE WATER CLOSET
22.05	(N) WALL MOUNTED URINAL, BACKING SUPPORT PER DETL 6/A8.03



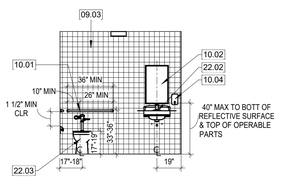
21D WEST
1/4" = 1'-0"



21C SOUTH
1/4" = 1'-0"

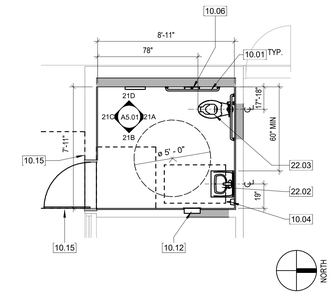


21B EAST
1/4" = 1'-0"



21A NORTH
1/4" = 1'-0"

24 ELEVATIONS - AD9 STAFF TOILET 2 (ADULT)
1/4" = 1' - 0"

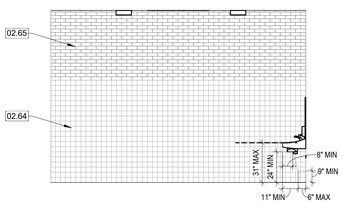


NORTH

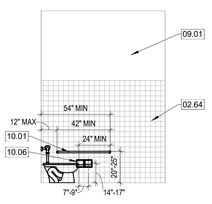
20 PLAN - AD9 STAFF TOILET 2 (ADULT)
1/4" = 1'-0"

18 NOT USED
NTS

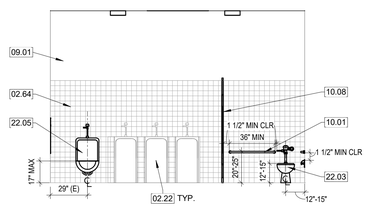
14 NOT USED
NTS



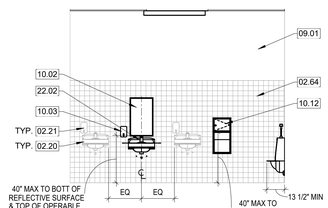
8D WEST
1/4" = 1'-0"



8C SOUTH
1/4" = 1'-0"

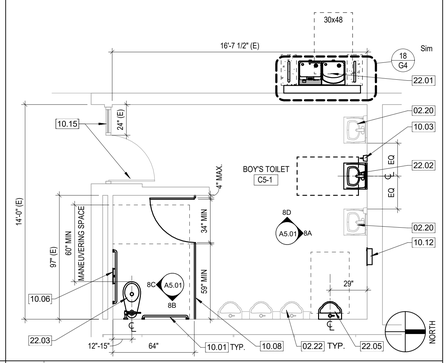


8B EAST
1/4" = 1'-0"

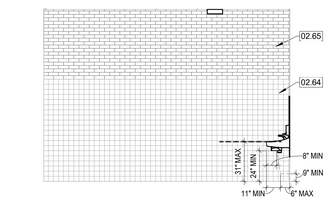


8A NORTH
1/4" = 1'-0"

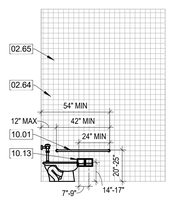
12 ELEVATIONS - C5-1 BOYS RR (AGES 5-8)
1/4" = 1' - 0"



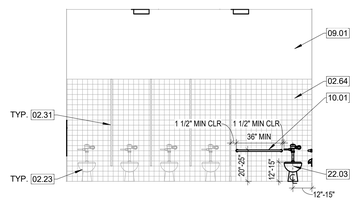
8 PLAN - C5-1 BOYS RR (AGES 5-8)
1/4" = 1'-0"



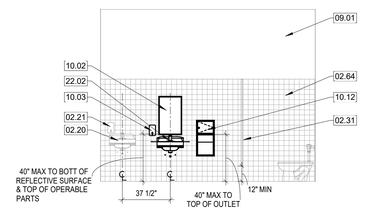
2D WEST
1/4" = 1'-0"



2C SOUTH
1/4" = 1'-0"

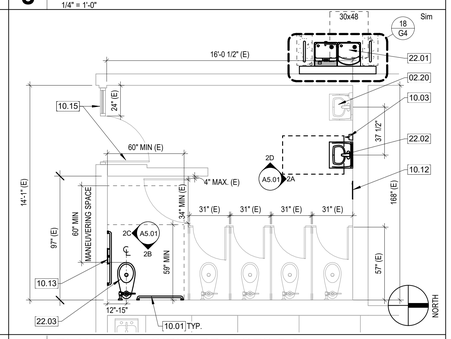


2B EAST
1/4" = 1'-0"



2A NORTH
1/4" = 1'-0"

6 ELEVATIONS - C3-1 GIRLS RR (AGES 5-8)
1/4" = 1' - 0"



2 PLAN - C3-1 GIRLS RR (AGES 5-8)
1/4" = 1'-0"

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DATE: 08/11/2023

PBK

ARCHITECT PBK Architects, Inc.
PBK.com
ANAHEIM
2400 E. Katella Ave. #910
Anaheim, CA 92806
P 949-548-9000

FINLEY ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
13521 Edwards St.
Westminster, CA 92683

DSA SUBMITTAL

DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43

WESTMINSTER SCHOOL DISTRICT

KEY PLAN
NORTH: PLAN

Consultant

Architect
LICENSED ARCHITECT
Yong Yoo
No. C-31162
REN. 10-31-2023
STATE OF CALIFORNIA

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
05-16-2023	220307

REVISIONS

No.	Description	Date

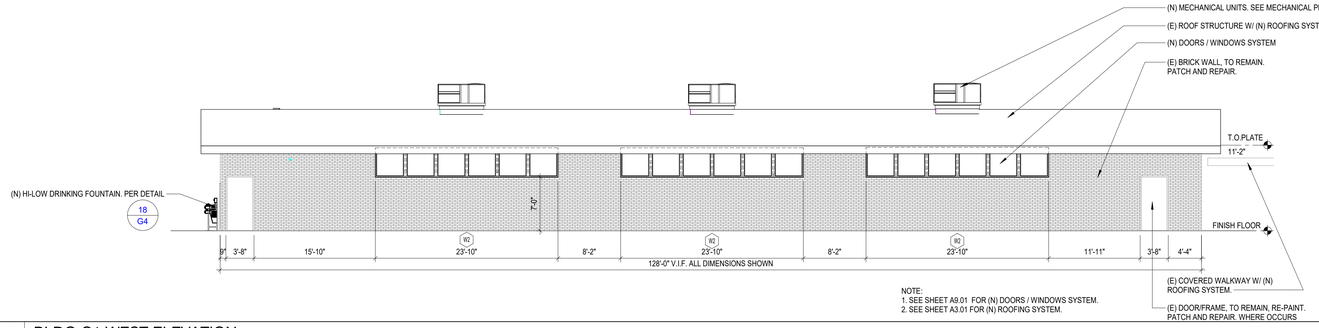
DSA SUBMITTAL

ENLARGED RESTROOM PLANS & INTERIOR ELEVATIONS

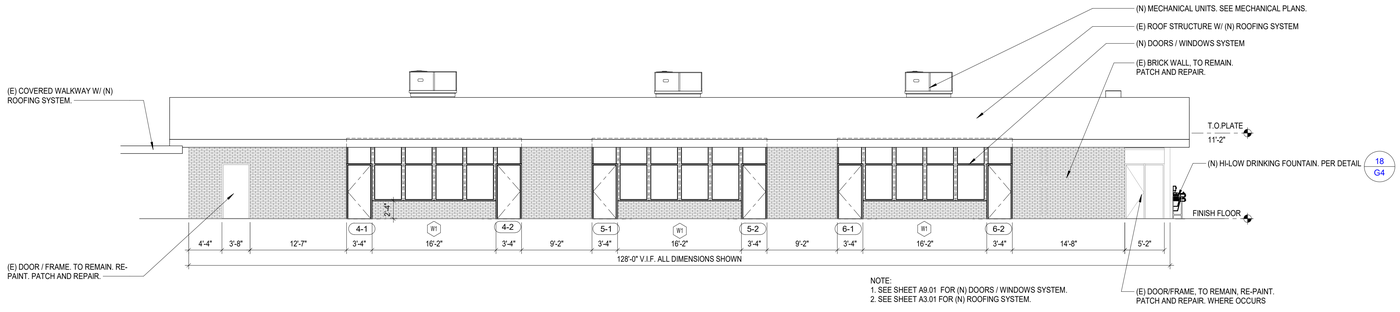
A5.01

A6.01 - EXTERIOR ELEVATIONS

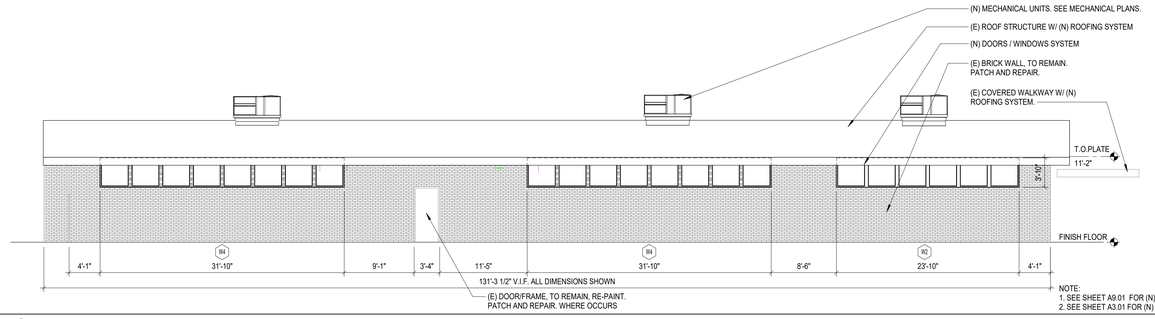
0" 1"



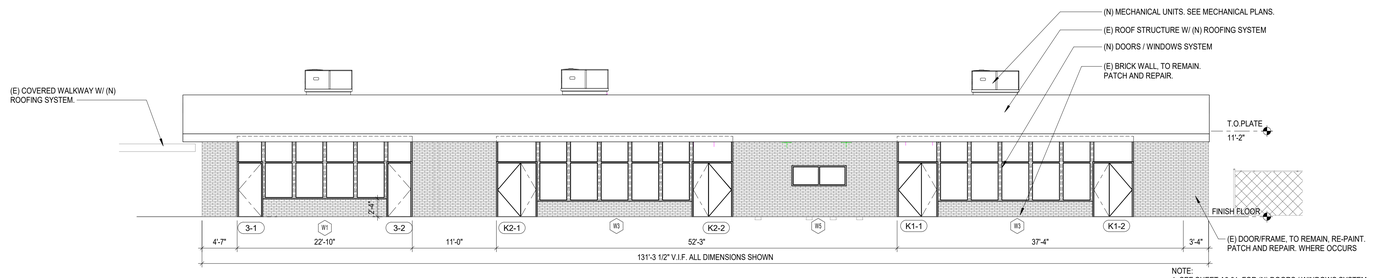
29 BLDG C1 WEST ELEVATION
1/8" = 1'-0"



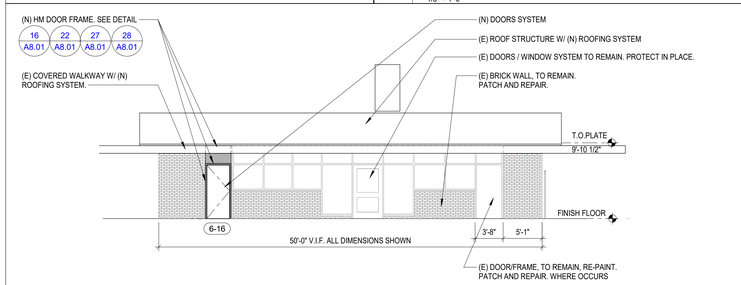
23 BLDG C1 EAST ELEVATION
1/8" = 1'-0"



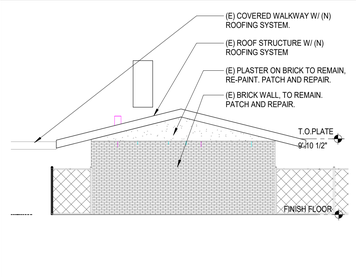
17 BLDG CK WEST ELEVATION
1/8" = 1'-0"



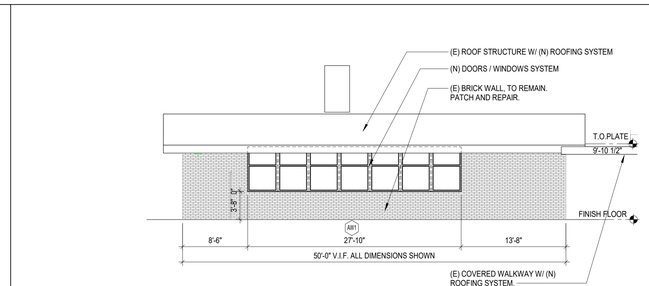
11 BLDG CK EAST ELEVATION
1/8" = 1'-0"



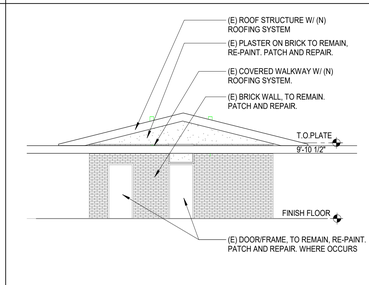
6 BLDG ADMIN SOUTH ELEV
1/8" = 1'-0"



4 BLDG ADMIN EAST ELEVATION
1/8" = 1'-0"



3 BLDG ADMIN NORTH ELEVATION
1/8" = 1'-0"



1 BLDG ADMIN WEST ELEVATION
1/8" = 1'-0"

EXTERIOR AND INTERIOR PAINT SCOPE OF WORK

1. CONTRACTOR SHALL PAINT ALL EXTERIOR AND INTERIOR SURFACES OF ALL BUILDINGS INCLUDING PORTABLES PER SPECIFICATION, THIS WORK INCLUDES ALL FLASHING, FASCIA, PLASTER, LOUVER, DRYWALL, DOORS AND FRAMES WITH THE EXCEPTION OF BRICK SURFACES. MINIMUM OF 4 COLORS TO BE SELECTED BY THE ARCHITECTS.
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3. PROVIDE APPROPRIATE PREPARATION , CLEANING AND BASE MATERIAL AT EXISTING EXTERIOR FINISHES BEFORE RECEIVING NEW FINISHES. PER FINISH SPECIFICATION.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121814 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/11/2023

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Westminster, CA 92683

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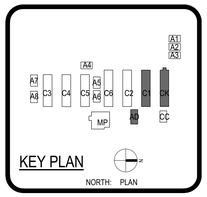
DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43

WESTMINSTER SCHOOL DISTRICT



KEY PLAN
NORTH: PLAN

Consultant

Architect

LICENSED ARCHITECT
Jong Yoo
No. C-31162
REN. 10-31-2023
STATE OF CALIFORNIA

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
05-16-2023	220307

REVISIONS

No.	Description	Date

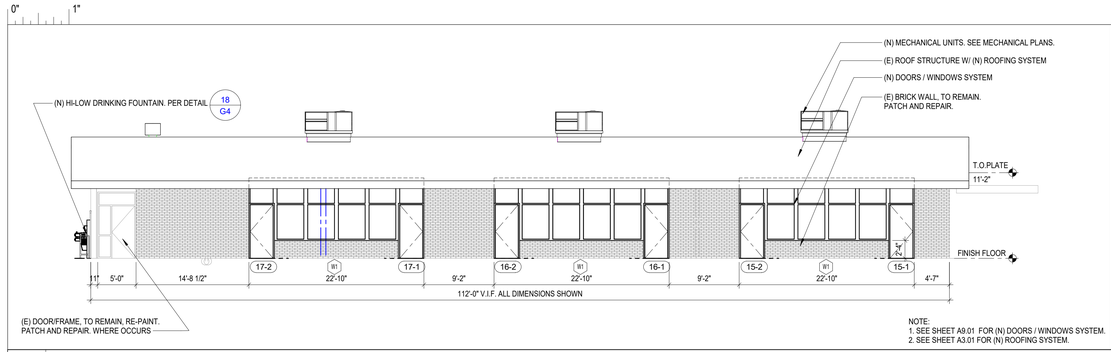
DSA SUBMITTAL

EXTERIOR ELEVATIONS

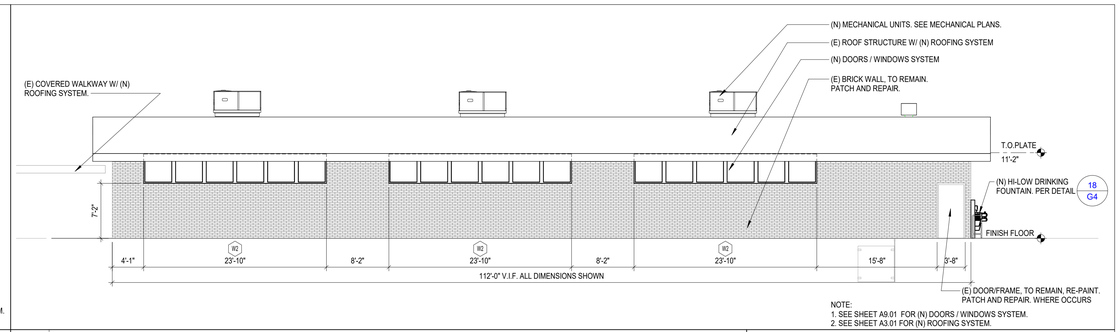
A6.01

FILE PATH: Z:\Projects\...
5/10/2023 10:17:26 AM

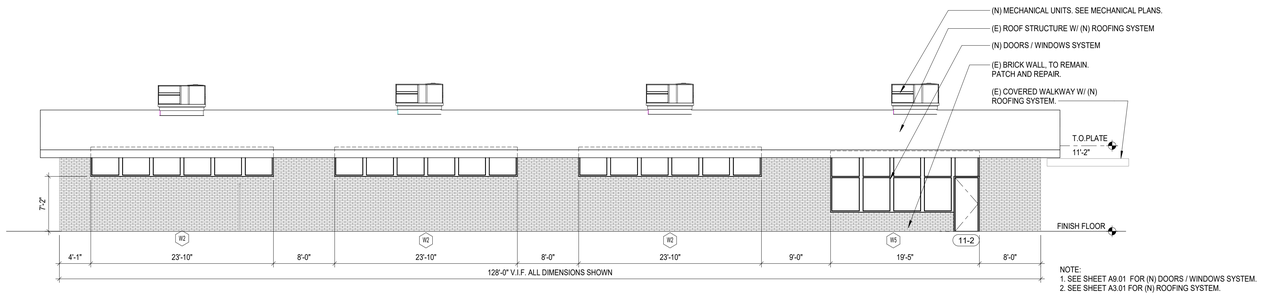
A6.02 - EXTERIOR ELEVATIONS



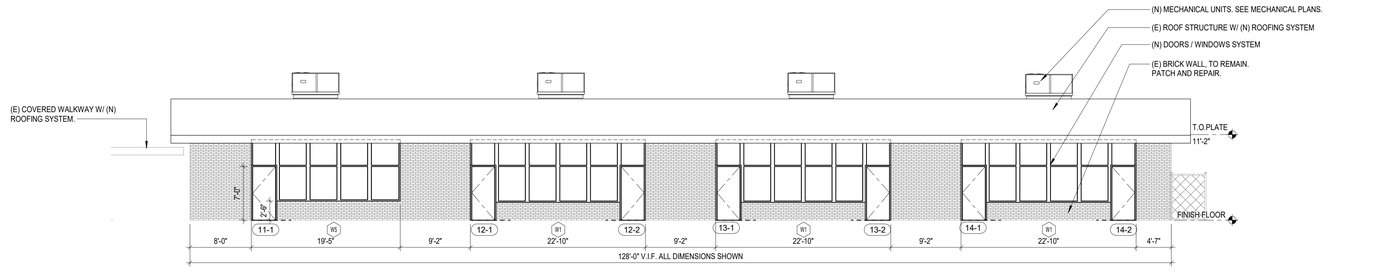
30 BLDG C3 WEST ELEVATION
1/8" = 1'-0"



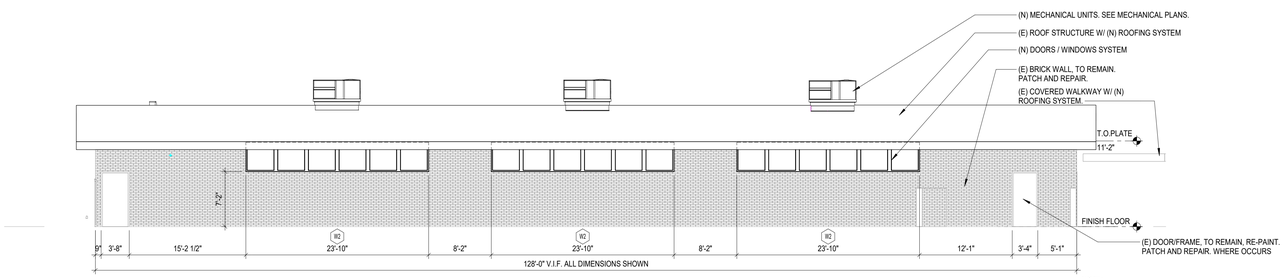
27 BLDG C3 EAST ELEVATION
1/8" = 1'-0"



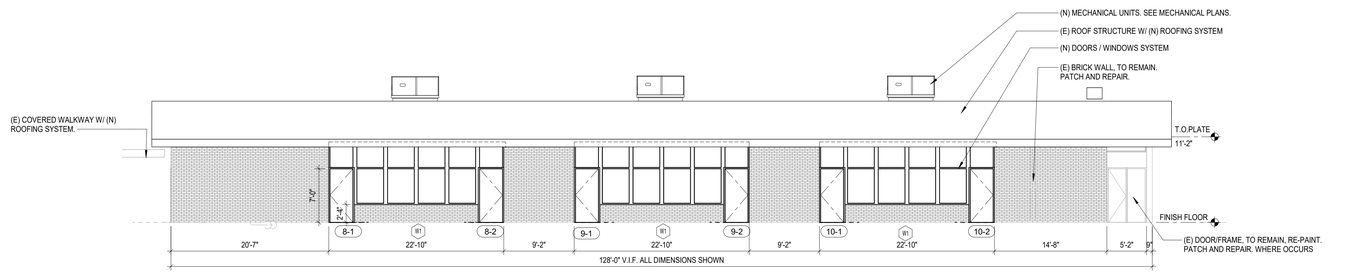
23 BLDG C6 WEST ELEVATION
1/8" = 1'-0"



17 BLDG C6 EAST ELEVATION
1/8" = 1'-0"



11 BLDG C2 WEST ELEVATION
1/8" = 1'-0"



5 BLDG C2 EAST ELEVATION
1/8" = 1'-0"

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PBK

ARCHITECT PBK Architects, Inc.
PBK.com
ANAHEIM
2400 E. Katella Ave. #910
Anaheim, CA 92806
P 949-548-5000

FINLEY ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
13621 Edwards St.
Westminster, CA 92683

DSA SUBMITTAL

DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43

WESTMINSTER SCHOOL DISTRICT

A1 A2 A3 A4 A5 A6 A7 A8 C3 C4 C5 C6 C2 C1 CK MP A9 C7

KEY PLAN
NORTH: PLAN

Consultant

Architect

LICENSED ARCHITECT
Tong You
No. C-31162
REN. 10-31-2023
STATE OF CALIFORNIA

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
05-16-2023	220307

REVISIONS

No.	Description	Date

DSA SUBMITTAL

EXTERIOR ELEVATIONS

A6.02

FILE PATH: Z:\Projects\...
5/30/2023 10:17:29 AM

A6.03 - EXTERIOR ELEVATIONS

0" 1"

EXTERIOR AND INTERIOR PAINT SCOPE OF WORK

1. CONTRACTOR SHALL PAINT ALL EXTERIOR AND INTERIOR SURFACES OF ALL BUILDINGS INCLUDING PORTABLES PER SPECIFICATION, THIS WORK INCLUDES ALL FLASHING, FASCIA, PLASTER, LOUVER, DRYWALL, DOORS AND FRAMES WITH THE EXCEPTION OF BRICK SURFACES. MINIMUM OF 4 COLORS TO BE SELECTED BY THE ARCHITECTS.
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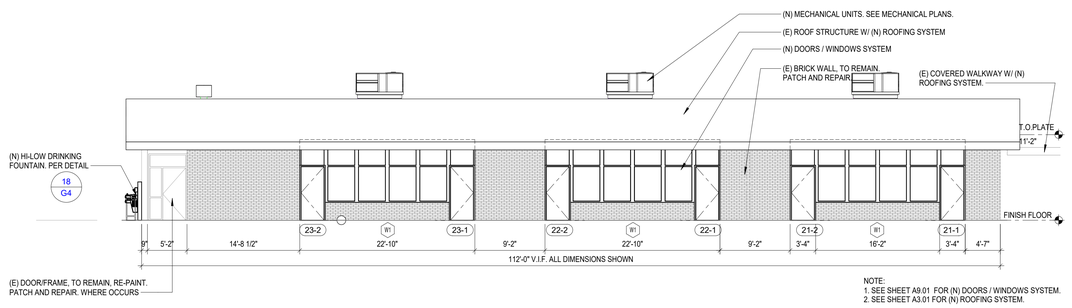
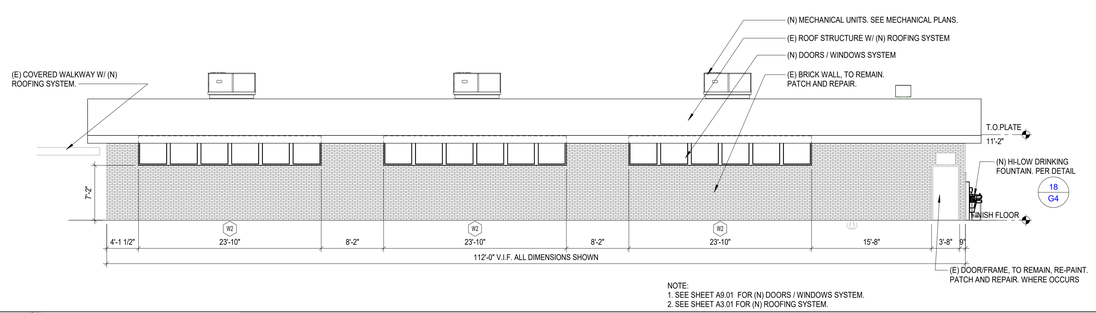
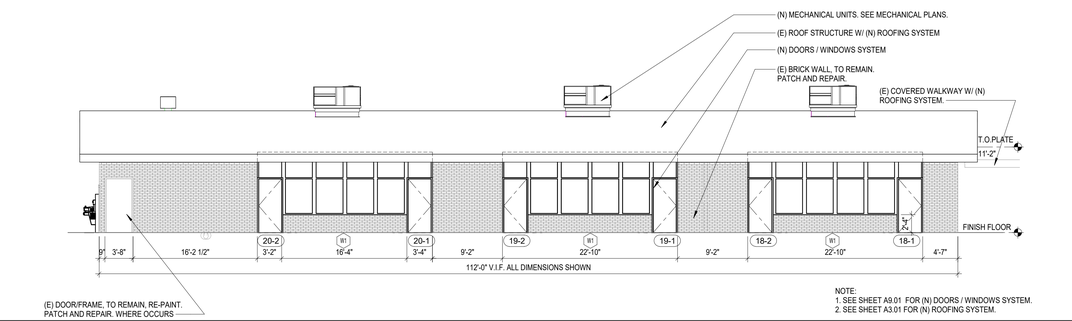


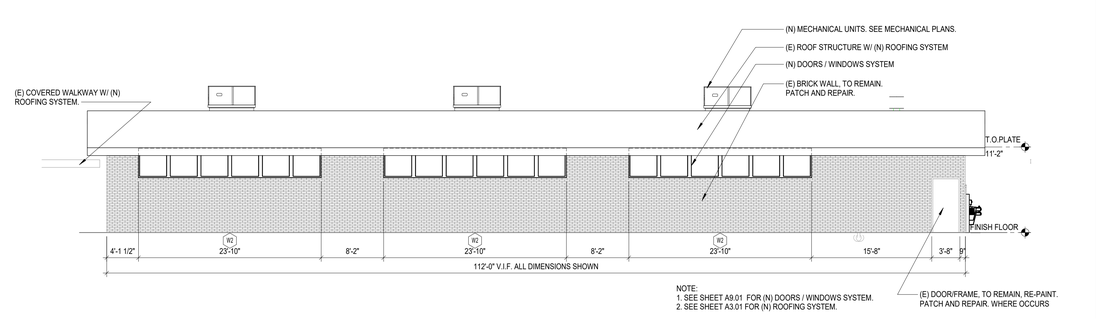
12 BLDG C5 WEST ELEVATION
1/8" = 1'-0"



9 BLDG C5 EAST ELEVATION
1/8" = 1'-0"



6 BLDG C4 WEST ELEVATION
1/8" = 1'-0"



1 BLDG C4 EAST ELEVATION
1/8" = 1'-0"

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5/30/2023 10:17:32 AM

IDENTIFICATION STAMP
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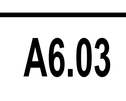

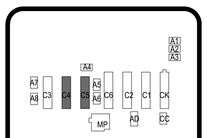

KEY PLAN
NORTH: PLAN

Consultant

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
05-16-2023	220307

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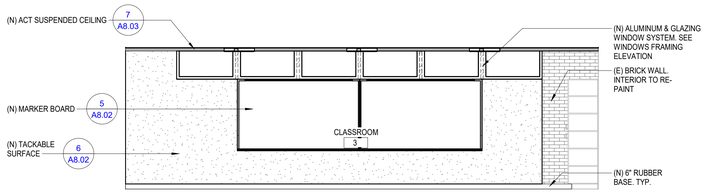
EXTERIOR ELEVATIONS

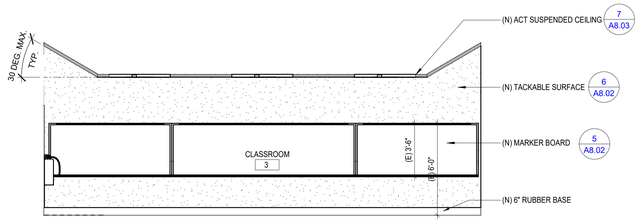
A6.03

A7.01 - INTERIOR ELEVATIONS

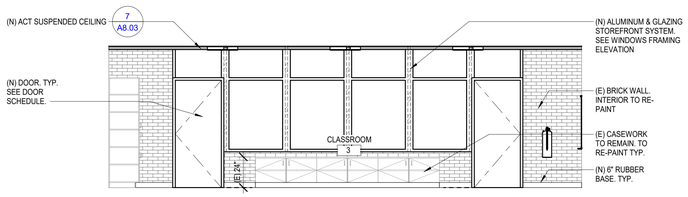
0" 1"



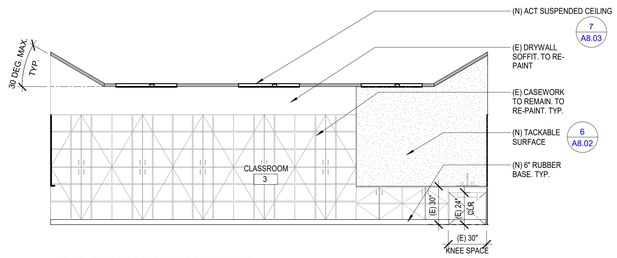
6D TYP. CLASSROOM - SOUTH INTERIOR ELEVATION
1/4" = 1'-0"



6C TYP. CLASSROOM - EAST INTERIOR ELEVATION
1/4" = 1'-0"

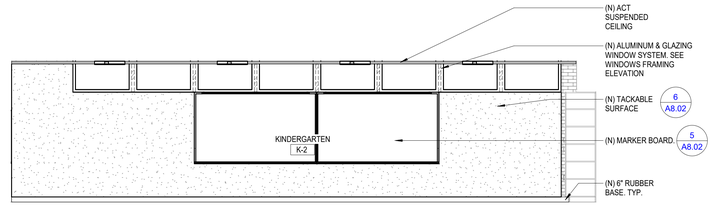


6B TYP. CLASSROOM - NORTH INTERIOR ELEVATION
1/4" = 1'-0"

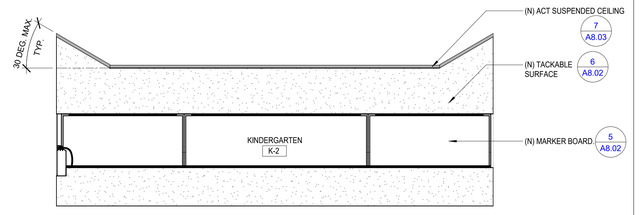


6A TYP. CLASSROOM - WEST INTERIOR ELEVATION
1/4" = 1'-0"

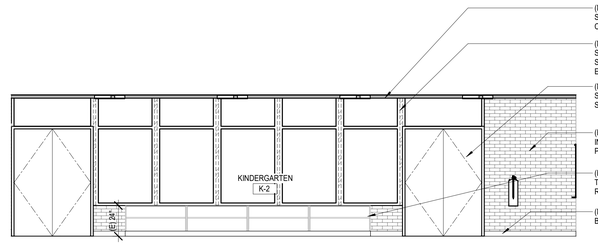
6 TYPICAL CLASSROOM AT BLDG CK , C1 , C2, C6 - INTERIOR ELEVATIONS
1/4" = 1'-0"



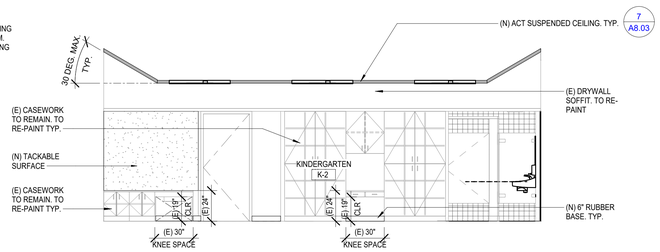
16D K2 - SOUTH INTERIOR ELEVATION
1/4" = 1'-0"



16C K2 - EAST INTERIOR ELEVATION
1/4" = 1'-0"

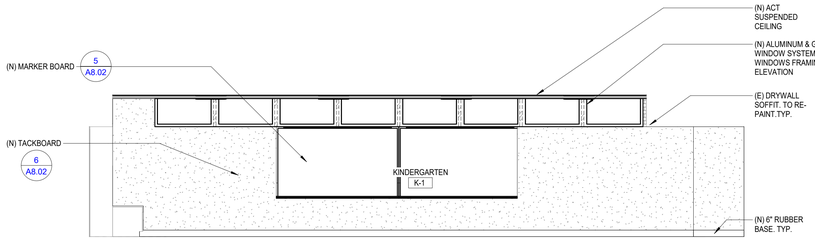


16B K2 - NORTH INTERIOR ELEVATION
1/4" = 1'-0"

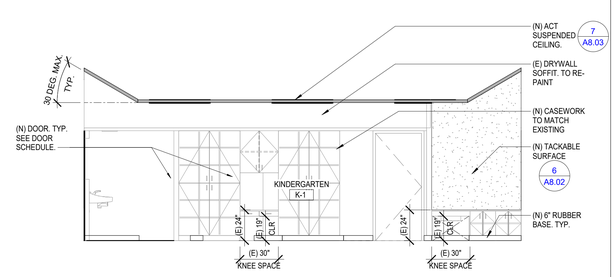


16A K2 - WEST INTERIOR ELEVATION
1/4" = 1'-0"

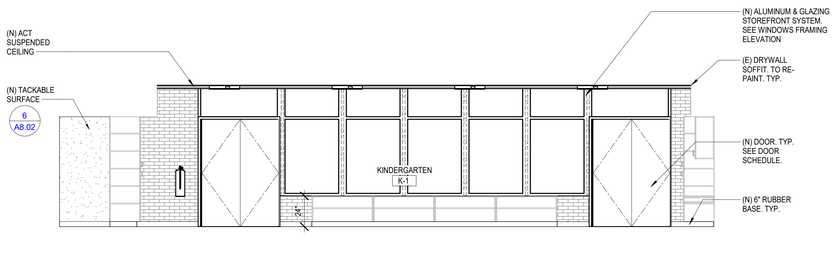
16 KINDERGARTEN K2 - INTERIOR ELEVATIONS
1/4" = 1'-0"



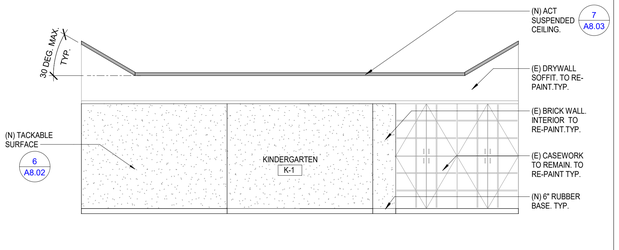
4D K1 - SOUTH INTERIOR ELEVATION
1/4" = 1'-0"



4C K1 - EAST INTERIOR ELEVATION
1/4" = 1'-0"



4B K1 NORTH INTERIOR ELEVATION
1/4" = 1'-0"



4A K1 WEST INTERIOR ELEVATION
1/4" = 1'-0"

4 KINDERGARTEN K1 - INTERIOR ELEVATIONS
1/4" = 1'-0"

FILE PATH: Z:\Projects\...
5/30/2023 10:17:36 AM

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121814 INC:
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SS ☑ FLS ☑ ACS ☑
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DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43

WESTMINSTER SCHOOL DISTRICT

A1 A2 A3 A4 A5 A6 A7 C1 C2 C3 C4 C5 C6 CK MP AD CC

KEY PLAN
NORTH: PLAN

Consultant

Architect
LICENSED ARCHITECT Tong You No. C-31162 REN. 10-31-2023 STATE OF CALIFORNIA

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
05-16-2023	220307

REVISIONS

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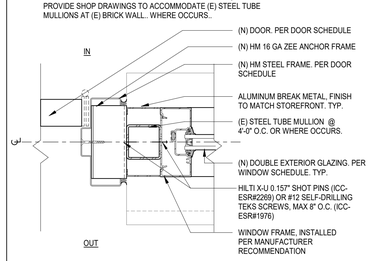
DSA SUBMITTAL

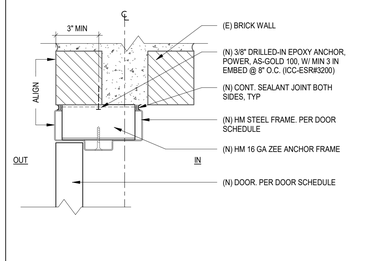
INTERIOR ELEVATIONS

A7.01

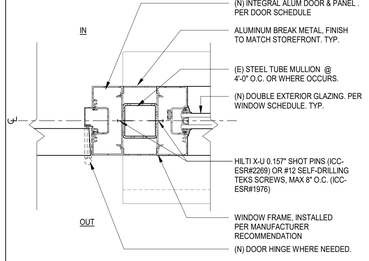
0" 1"



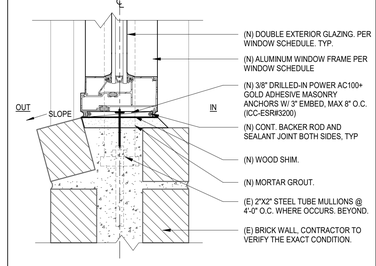
28 HM DOOR FRAME (E) MULLION ATTACH
3" = 1'-0"



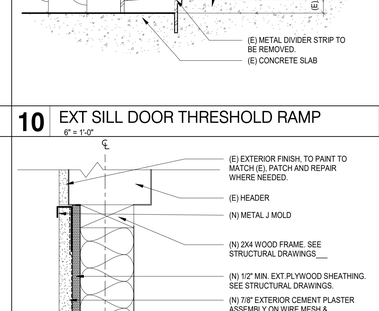
27 HM DOOR JAMB/HEAD @ BRICK
3" = 1'-0"



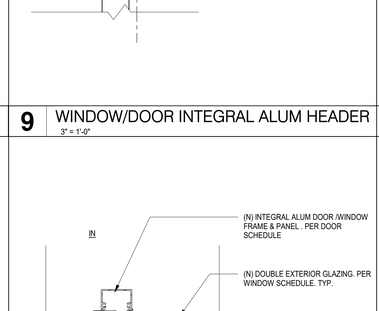
26 WINDOW/DOOR (E) MULLION ATTACHMENT
3" = 1'-0"



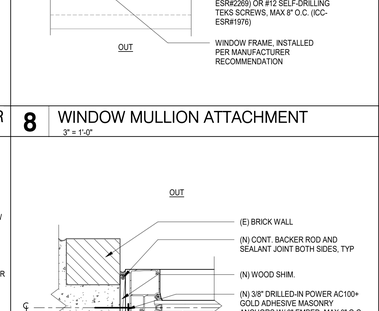
25 WINDOW SILL @ BRICK WALL
3" = 1'-0"



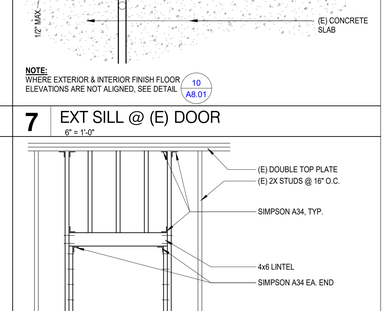
22 HM TRANSOM @ (E) HEADER BEAM
3" = 1'-0"



21 WINDOW JAMB/WALL INTERSECTION
3" = 1'-0"



20 INTEGRAL ALUM DOOR FRAME @ BRICK
3" = 1'-0"



19 INT SILL AT CERAMIC TILE
6" = 1'-0"

16 HM DOOR W/ TRANSOM FRAME & PANEL
3" = 1'-0"

15 WINDOW HEADER
3" = 1'-0"

14 WINDOW MULLION VERT/HORIZ
3" = 1'-0"

NOTES:
1. FRAME DEPTH TO BE DETERMINED BY OVERALL WALL THICKNESS (TYP.)

13 HM FRAME INT JAMB / HEAD @ (N) WALL
3" = 1'-0"

10 EXT SILL DOOR THRESHOLD RAMP
6" = 1'-0"

9 WINDOW/DOOR INTEGRAL ALUM HEADER
3" = 1'-0"

8 WINDOW MULLION ATTACHMENT
3" = 1'-0"

NOTE:
WHERE EXTERIOR & INTERIOR FINISH FLOOR ELEVATIONS ARE NOT ALIGNED, SEE DETAIL 10 A8.01

7 EXT SILL @ (E) DOOR
6" = 1'-0"

5 WINDOW HEAD @ BRICK WALL
3" = 1'-0"

4 WINDOW INFILL
3" = 1'-0"

3 WINDOW/DOOR MULLION ATTACHMENT
3" = 1'-0"

2 WINDOW JAMB @ BRICK WALL
3" = 1'-0"

1 (N) DOOR OPENING
1/2" = 1'-0"

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121814 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/11/2023

PBK

ARCHITECT PBK Architects, Inc.
PBK.com
ANAHEIM
2400 E. Katella Ave. #910
Anaheim, CA 92806
P 949-548-6000

FINLEY ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
13521 Edwards St.
Westminster, CA 92683

DSA SUBMITTAL

DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43

WESTMINSTER SCHOOL DISTRICT

KEY PLAN
NORTH: PLAN

Consultant

Architect
LICENSED ARCHITECT
Tong Yao
No. C-31162
REN. 10-31-2023
STATE OF CALIFORNIA

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
05-16-2023	220307

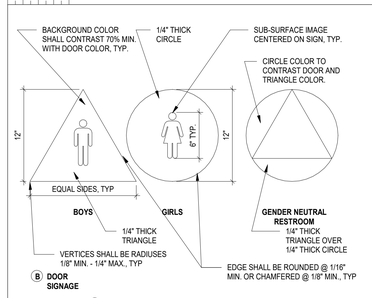
REVISIONS

No.	Description	Date

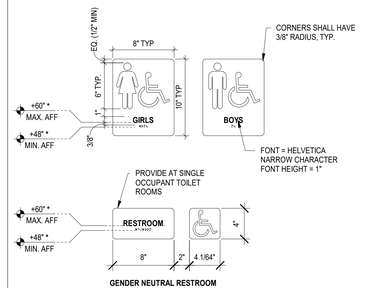
DSA SUBMITTAL

DOORS, WINDOW FRAME DETAILS

A8.01



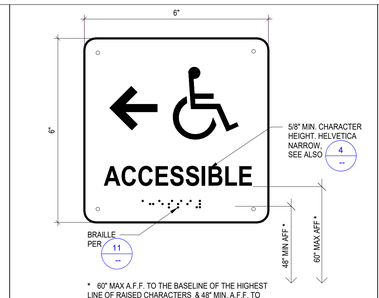
B DOOR SIGNAGE



A WALL SIGNAGE

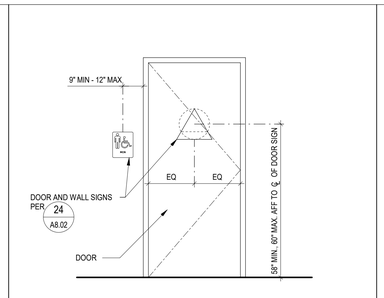
* 60" MAX A.F.F. TO THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS & 48" MIN. A.F.F. TO THE BASELINE OF THE LOWEST BRAILLE CELLS

NOTE:
FOR CHARACTER TYPE AND BRAILLE REQUIREMENTS SEE DETAILS 12 (A8.02) 11 (A8.02)

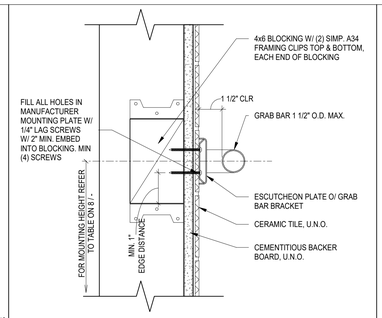


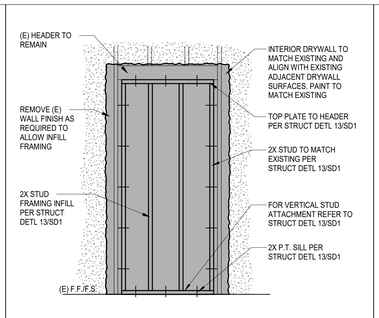
* 60" MAX A.F.F. TO THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS & 48" MIN. A.F.F. TO THE BASELINE OF THE LOWEST BRAILLE CELLS

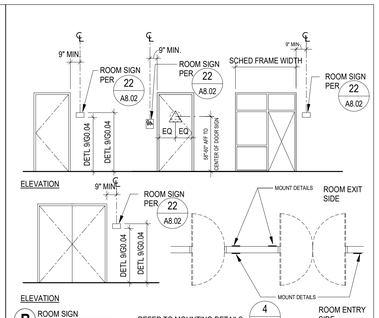
101400.15-S Rev 10/17



101400.04-S CBC 2019 - Rev 10/19

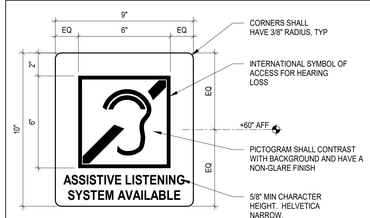






NOTES:
1. FOR CHARACTER TYPE & BRAILLE. SEE ALSO DETAIL 12 (A8.02) 11 (A8.02)
2. SIGN MATERIAL SHALL BE PAINTED, 1/8" THICK ES PLASTIC USING GRAPHIC PROCESS SAND-CARVED W/ 3/32" RAISED GRAPHIC AND LETTERS. PROVIDE MECHANICAL MOUNTING W/ COUNTERSUNK VANDAL RESISTANT #8 FASTENERS. MOUNT ON GLAZING WITH CLEAR SILICONE ADHESIVE AND A SECOND SIGN OR BLANK ALIGNED ON THE OTHER SIDE OF GLAZING TO MASK THE ADHESIVE.
3. PROVIDE ONE SIGN WHERE INDICATED ON PLANS OR SCHEDULE.
4. SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, INCLUDING DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT. MOUNTING LOCATION SHALL BE DETERMINED SO THAT A PERSON MAY APPROACH WITHIN 3" OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR. FOR PAIRS OF DOORS WHERE DOOR SWING IS LIMITED TO 90 DEGREES, MOUNT SIGN 9" FROM EDGE OF DOOR. FOR PAIRS OF DOORS WHERE DOOR SWING EXCEEDS 90 DEGREES, MOUNT SIGN DOOR WIDTH PLUS 9" FROM EDGE OF DOOR.

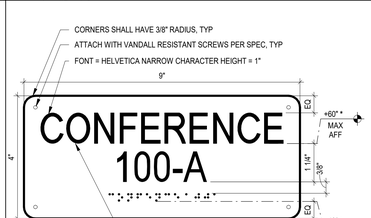
29 ACCESSIBLE ROUTE SIGN
6" = 1'-0"



NOTES:
1. SIGN MATERIAL SHALL BE 1/4" THICK PLASTIC W/ 1/32" RAISED LETTERS
2. MOUNT W/ VANDAL RESISTANT FASTENERS

101400.13-S CBC 2016 - Rev 3/17

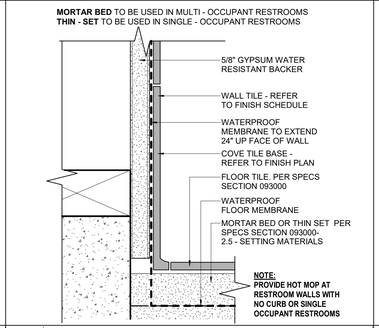
28 RESTROOM SIGNAGE
1/2" = 1'-0"



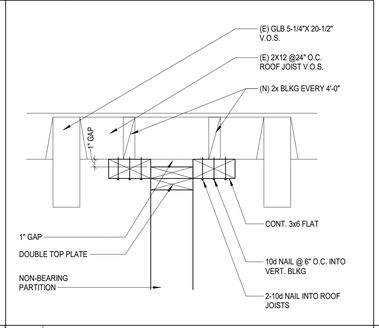
* 60" MAX A.F.F. TO THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS & 48" MIN. A.F.F. TO THE BASELINE OF THE LOWEST BRAILLE CELLS

101400.11-S CBC 2019- Rev 09/19

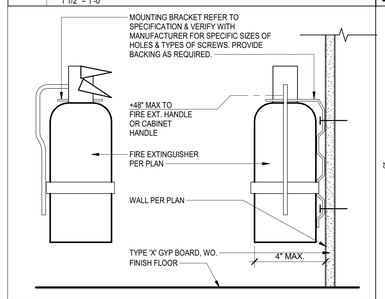
27 GRAB BAR MOUNT1
3" = 1'-0"



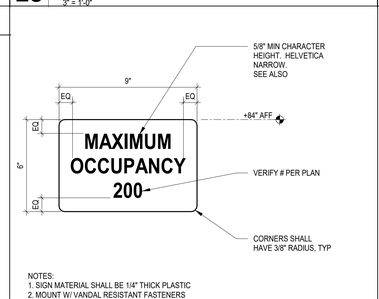
26 DOOR INFILL DETAIL
1/2" = 1'-0"



24 RESTROOM DOOR & WALL SIGNS
1 1/2" = 1'-0"



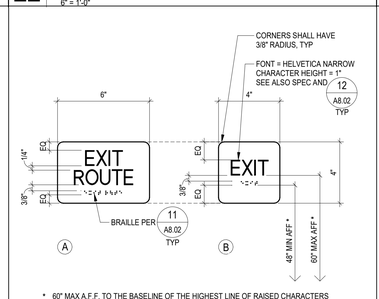
23 ASSISTIVE LISTENING SIGNAGE
3" = 1'-0"



NOTES:
1. SIGN MATERIAL SHALL BE 1/4" THICK PLASTIC
2. MOUNT W/ VANDAL RESISTANT FASTENERS

101400.14-S CBC 2016 - Rev 7/17

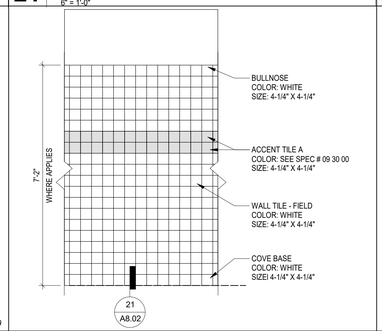
22 TYP. ROOM ID SIGN
6" = 1'-0"



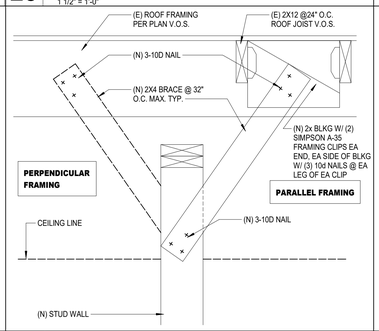
* 60" MAX A.F.F. TO THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS & 48" MIN. A.F.F. TO THE BASELINE OF THE LOWEST BRAILLE CELLS

101400.12-S CBC 2019 - Rev 10/19

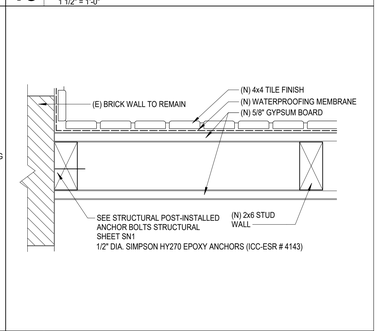
21 TYPICAL TILE WALL BASE
6" = 1'-0"



20 TOP CONNECTION - PERPENDICULAR
1 1/2" = 1'-0"



19 ROOM IDENTIFICATION SIGNAGE
1 1/2" = 1'-0"



18 WALL MOUNT FIRE EXTINGUISHER
3" = 1'-0"

CHARACTER REQUIREMENTS:

A. CHARACTER REQUIREMENTS FOR ALL SIGNS PER 2019 CBC 11B-703:
1. 3 CHARACTERS SHALL BE UPPERCASE.
2. CHARACTERS SHALL BE SANS SERIF. CHARTERS SHALL NOT BE ITALLIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OF OTHER UNUSUAL FORMS.
3. CHARACTER SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER 'O' IS 60 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER 'I'.
4. SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF RAISED CHARACTERS WITHIN A MESSAGE SHALL BE 135 PERCENT MINIMUM AND 170 PERCENT MAXIMUM OF THE CHARACTER HEIGHT.
5. TEXT SHALL BE IN HORIZONTAL FORMAT.
6. CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH AND CONTRAST WITH ONE ANOTHER

B. RAISED CHARACTER REQUIREMENTS FOR SIGNS WITH BRAILLE PER 2019 CBC 11B-703.2:
1. RAISED CHARACTERS SHALL COMPLY WITH REQUIREMENTS NOTED IN PARAGRAPH 'A' ABOVE
2. RAISED CHARACTERS SHALL BE 1/32 INCH MIN ABOVE BACKGROUND.
3. RAISED CHARACTER HEIGHT MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8 INCH MINIMUM AND 2 INCHES MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER 'I'.
4. STROKE THICKNESS OF THE UPPERCASE LETTER 'I' SHALL BE 10 PERCENT MINIMUM AND 15 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER.
5. CHARACTER SPACING BETWEEN INDIVIDUAL RAISED LETTERS SHALL BE 1/8 INCH MINIMUM AND FOUR (4) TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM.

C. VISUAL CHARACTER REQUIREMENTS FOR SIGNS WITHOUT BRAILLE PER 2019 CBC 11B-703.5:
1. VISUAL CHARACTERS SHALL COMPLY WITH REQUIREMENTS NOTED IN PARAGRAPH 'A' ABOVE
2. MINIMUM CHARACTER HEIGHT SHALL CONFORM TO 2019 CBC TABLE 11B-703.5.5 BUT IN NO CASE SHALL BE LESS THAN 5/8 INCH.
3. HEIGHT FROM FINISH FLOOR SHALL BE NO LESS THAN 40 INCHES.
4. STROKE THICKNESS OF THE UPPERCASE LETTER 'I' SHALL BE 10 PERCENT MINIMUM AND 20 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER.
5. SPACING BETWEEN INDIVIDUAL CHARACTERS SHALL BE 10 PERCENT MINIMUM AND 35 PERCENT MAXIMUM OF CHARACTER HEIGHT.

CHARACTER AND STROKE WIDTH TO HEIGHT PROPORTIONS:

1:1:1 MAX 110%	3:5 MIN 60%	3:20 MAX 15% (TACTILE)	1:5 MAX 20% (NON-TACTILE)	1:10 MIN 10%
CHARACTER WIDTH (UPPERCASE LETTER "O")		STROKE THICKNESS(UPPERCASE LETTER "I")		

17 OCCUPANT LOAD SIGN
3" = 1'-0"

BRAILLE REQUIREMENTS PER 2019 CBC 11B-703.3:
1. CONTRACTED CALIFORNIA GRADE 2 BRAILLE SHALL COMPLY WITH SECTIONS 11B-703.3 AND 11B-703.4
2. BRAILLE DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE AND COMPLY WITH TABLE 11B-703.3.1
3. DOT BASE DIAMETER = 0.059 TO 0.063 INCHES
4. DISTANCE BETWEEN TWO DOTS IN THE SAME CELL = 0.100 INCHES
5. DISTANCE BETWEEN CORRESPONDING DOTS IN ADJACENT CELLS = 0.300 INCHES
6. DOT HEIGHT = 0.025 TO 0.037 INCHES
7. DISTANCE BETWEEN CORRESPONDING DOTS FROM ONE CELL DIRECTLY BELOW = 0.395 TO 0.400 INCHES
8. SPACING BETWEEN DOTS AND CELLS PER BELOW, MEASURED CENTER TO CENTER...

9. BRAILE SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT IN A HORIZONTAL FORMAT, FLUSH LEFT OR CENTERED. IF TEXT IS MULTI-LINED, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT. BRAILLE SHALL BE SEPARATED 3/8" (9.5MM) MIN. AND 1/2 INCH (12.7MM) MAXIMUM FROM ANY OTHER TACTILE CHARACTERS AND 3/8" MIN. FROM RAISED BORDERS AND DECORATIVE ELEMENTS.

16 TACTILE EXIT SIGNS
3" = 1'-0"

NOTE:
PROVIDE SPACES AS NEEDED SO SIGNAGE IS WITHIN 3" OF WINDOW FRAME

15 TILE FINISH ELEVATION
1/2" = 1'-0"

NOTE:
SEE WOOD FRAMING AT STRUCTURAL DWGS SN1

14 TOP CONNECTION - PARALLEL
1 1/2" = 1'-0"

13 (N) WALL TO (E) BRICK WALL
3" = 1'-0"

12 CHARACTER REQ. FOR SIGNAGE
1" = 1'-0"

11 BRAILLE STANDARDS FOR SIGNAGE
6" = 1'-0"

6 TACKBOARD DETAIL
3" = 1'-0"

5 MARKERBOARD DETAIL
3" = 1'-0"

4 ROOM IDENTIFICATION SIGN MOUNTING
3" = 1'-0"

3 C- PARTITION TYPE (WALL FURRING)
1 1/2" = 1'-0"

2 B- PARTITION TYPE
3" = 1'-0"

1 A- PARTITION TYPE
3" = 1'-0"

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121814 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/11/2023

PBK

ARCHITECT
PBK Architects, Inc.
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2400 E. Katella Ave. #910
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P 949-548-5000

FINLEY ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
13521 Edwards St.
Westminster, CA 92683

DSA SUBMITTAL

DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43

WESTMINSTER SCHOOL DISTRICT

KEY PLAN
NORTH: PLAN

Consultant

Architect
LICENSED ARCHITECT Yong Yoo No. C-31162 REN. 10-31-2025 STATE OF CALIFORNIA

CLIENT
WESTMINSTER SCHOOL DISTRICT
DATE 05-16-2023
PROJECT NUMBER 220307

REVISIONS

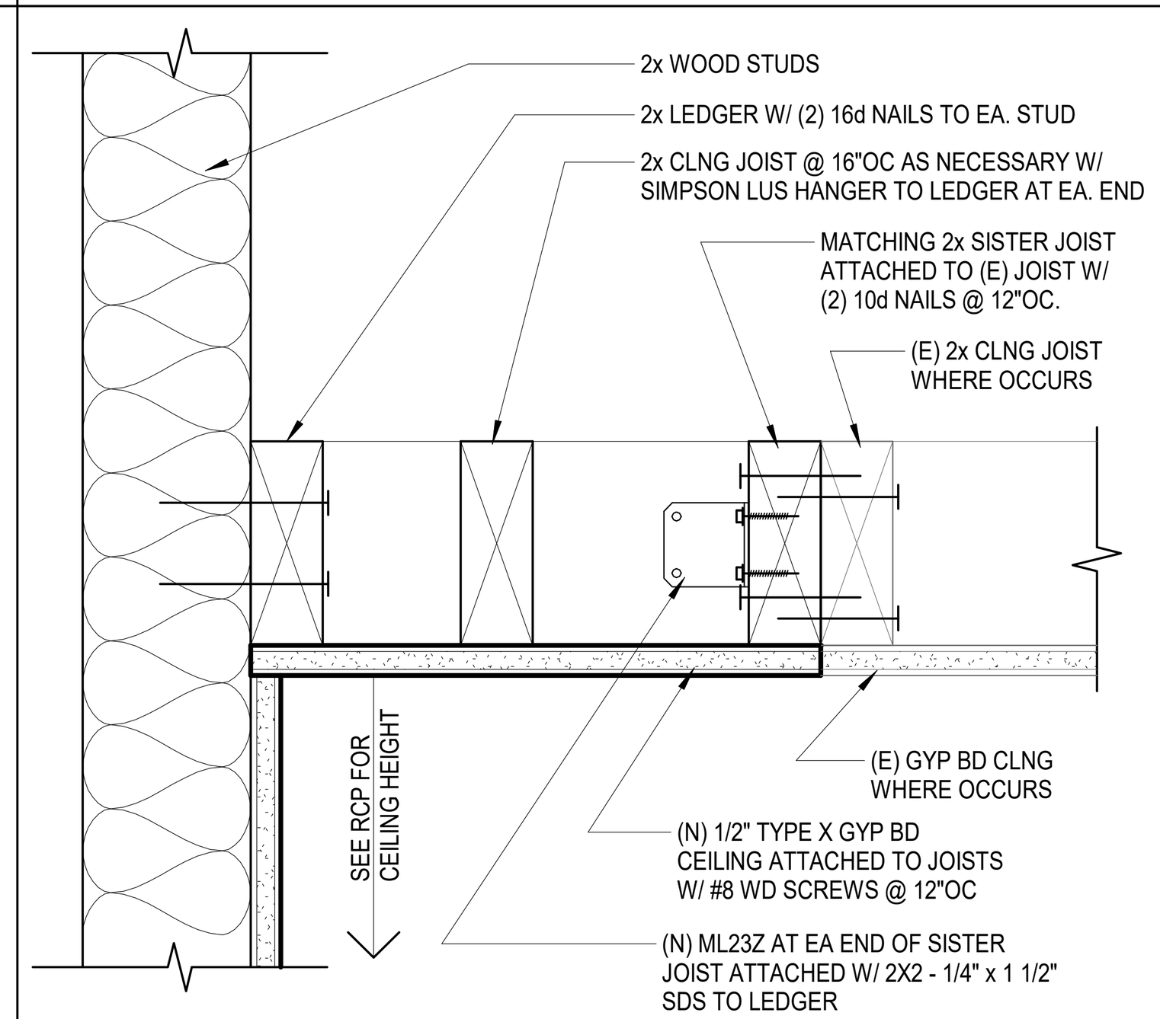
No.	Description	Date

DSA SUBMITTAL

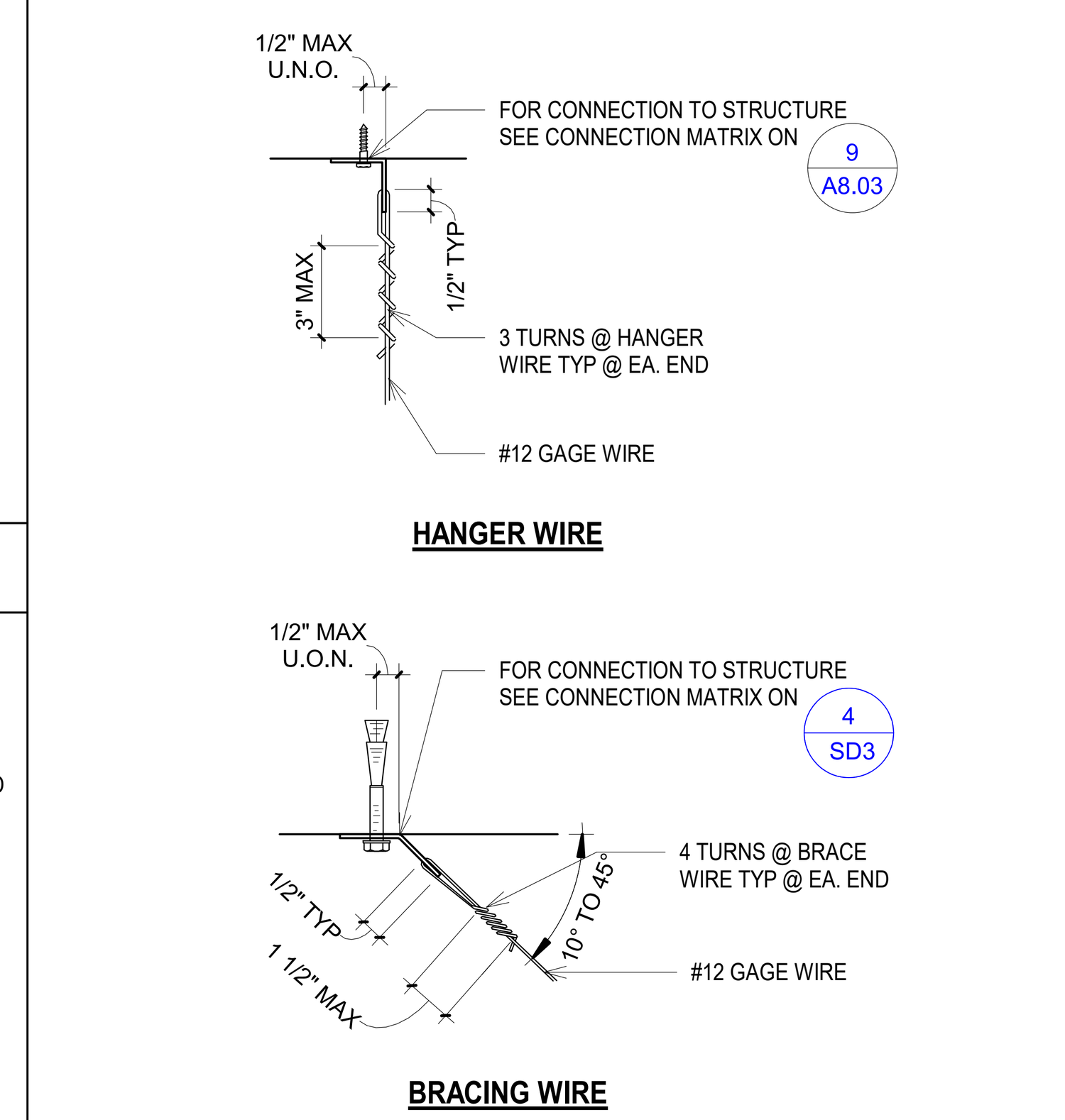
PARTITION TYPES AND MISC. DETAILS

A8.02

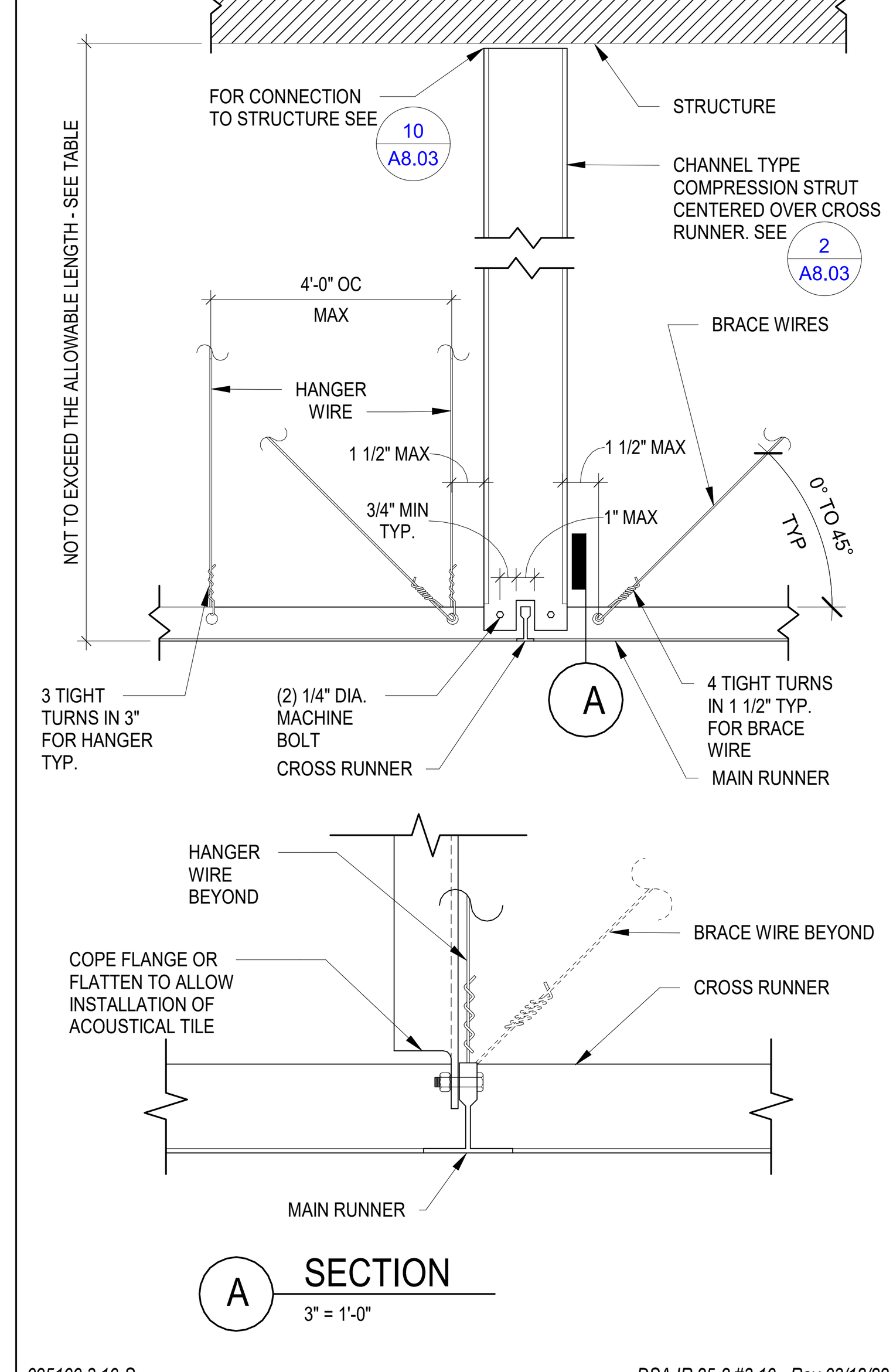
A8.03 - CEILING & MISC DETAILS



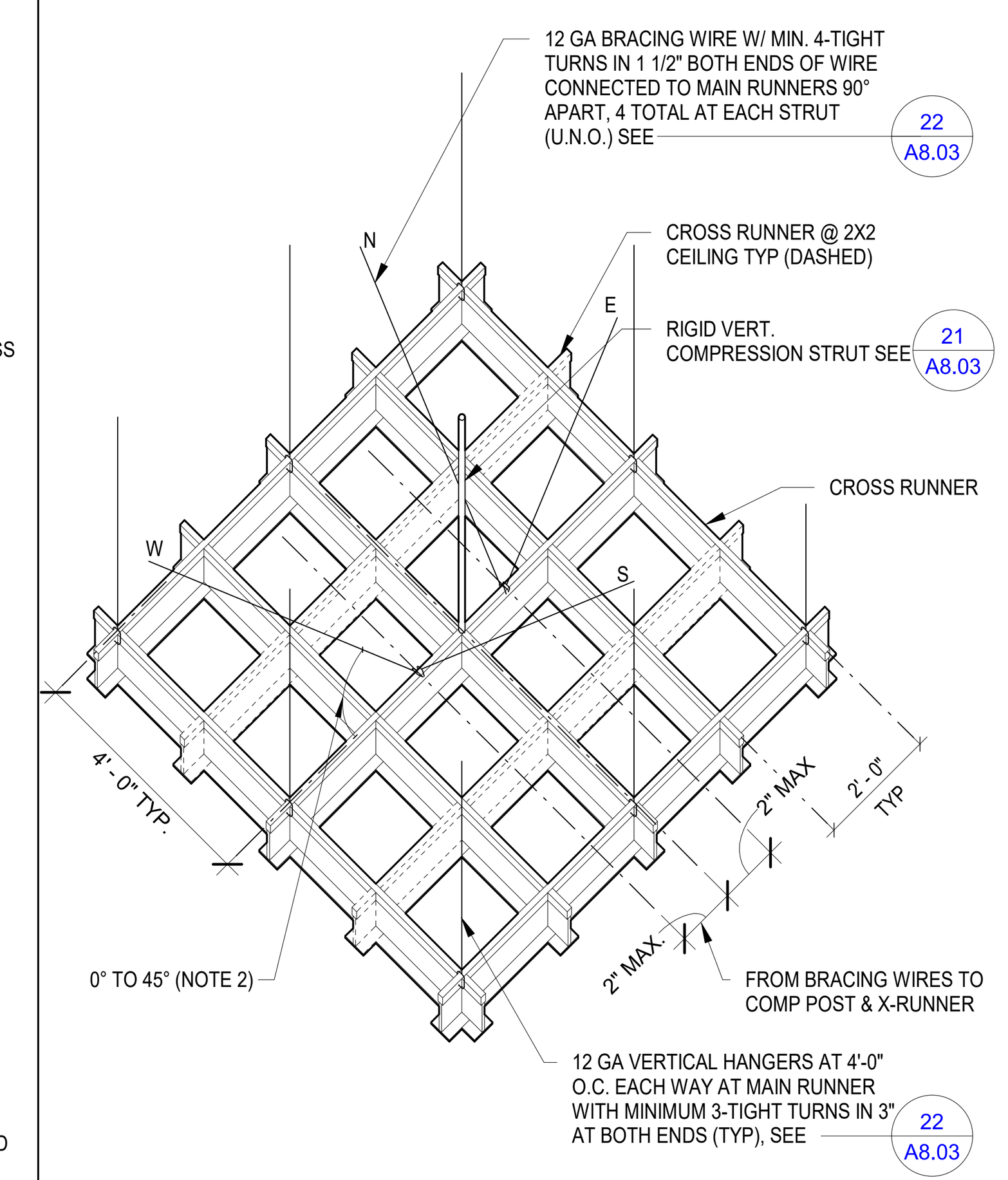
23 (N) HARD LID CLNG FRAMING
3" = 1'-0"



22 TYPICAL WIRE TURNS
3" = 1'-0"



21 COMPRESSION STRUT - CHANNEL
1 1/2" = 1'-0"



NOTES:
1. SUSPENDED CEILING SHALL COMPLY WITH DSA IR 25-2.13
2. STRUTS SHALL NOT REPLACE HANGER WIRES
3. THE MINIMUM ACCEPTABLE ANGLE IS DETERMINED SUCH THAT THE WIRES DO NOT INTERFERE WITH THE RUNNERS, LIGHT FIXTURES, ETC. AND REMAIN STRAIGHT AND UNOBSTRUCTED.
4. FOR TYPICAL SUSPENDED CEILING NOTES, SEE 13/A8.03
5. FOR TYPICAL CEILING PLAN & COMPRESSION STRUT LAYOUT, SEE 7/A8.03
6. FOR HANGER AND/OR BRACING WIRE SPLICING, SEE 3/A8.03

095100.2.35-S DSA IR 25-2 #2.35 - Rev 03/18/22

20 SUSPENDED CEILING SYSTEM
3/8" = 1'-0"

1. CEILING SYSTEM GENERAL NOTES: PER IR 25-2 REV 3/18/22

1.01 CEILING SYSTEM COMPONENTS SHALL COMPLY WITH ASTM C635-07 AND SECTION 5.1 OF ASTM E580-10a.
1.02 THE CEILING GRID SYSTEM MUST BE RATED HEAVY DUTY AS DEFINED BY ASTM C635-08.
1.03 CEILING SYSTEMS. THE FOLLOWING CEILING SYSTEM(S) IS/ARE PART OF THE SCOPE OF THIS PROJECT:
MANUFACTURER'S NAME ARMSTRONG WORLD INDUSTRIES, INC.
PRODUCT EVALUATION REPORT TYPE AND NUMBER ICC ESR-1308
MANUFACTURER'S MODEL NUMBER - MAIN RUNNER ARMSTRONG:HEAVY DUTY PRELUDE XL 7301
MANUFACTURER'S CATALOG NUMBER - CROSS RUNNER ARMSTRONG: XL7328
1.04 SEISMIC WALL CLIP:
MANUFACTURER'S MODEL BERC2
1.05 CEILING PANELS SHALL NOT SUPPORT ANY LIGHT FIXTURES, AIR TERMINALS OR DEVICES.
1.06 FOR CEILING INSTALLATIONS UTILIZING ACOUSTICAL TILE PANELS OF MINERAL OR GLASS FIBER, IT IS NOT MANDATORY TO PROVIDE 3/4" CLEARANCE BETWEEN THE ACOUSTICAL TILE PANELS AND THE WALL ON THE SIDES OF THE CEILING WHICH ARE FREE TO SLIP. FOR ALL OTHER CEILING PANEL TYPES, PROVIDE 3/4" CLEARANCE BETWEEN THE CEILING PANEL AND THE WALL ON THE SIDES OF THE CEILING FREE TO SLIP. CLEARANCE BETWEEN CEILING GRID RUNNERS/MEMBERS AND WALLS SHALL COMPLY WITH THE DETAILS ON THESE DRAWINGS REGARDLESS OF CEILING TILE MATERIAL.

2. MATERIALS:

2.01 CEILING WIRE SHALL BE CLASS 1 ZINC COATED (GALVINIZED) CARBON STEEL CONFORMING TO ASTM A641-09a. WIRE SHALL BE #12 GAGE (0.106" DIAMETER) WITH SOFT TEMPER AND MINIMUM TENSILE STRENGTH = 70 KSI.
2.02 GALVANIZED SHEET STEEL (INCLUDING THAT USED FOR METAL STUD AND TRACK COMPRESSION STRUTS/POST) SHALL CONFORM TO ASTM A6453-11, OR OTHER EQUIVALENT SHEET STEEL LISTED IN SECTION A2.1 OF THE NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS 2007, INCLUDING SUPPLEMENT 2 DATED 2010 (AISI S100-07/S2-10). MATERIAL 43 MIL (18 GAGE) AND LIGHTER SHALL HAVE A MINIMUM YIELD STRENGTH OF 32 KSI. MATERIAL 54 MIL (16 GAGE) AND HEAVIER SHALL HAVE A MINIMUM YIELD STRENGTH OF 50 KSI.
2.03 ELECTRICAL METALLIC TUBE (EMT) SHALL BE ANSI C80.3/UL 797 CARBON STEEL WITH G90 GALVANIZING. EMT SHALL HAVE MINIMUM YIELD STRENGTH (Fy) OF 30 KSI AND MINIMUM ULTIMATE STRENGTH (Fu) OF 48 KSI.

3. ATTACHMENT OF HANGER AND BRACING WIRES:

3.01 SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST SIX (6) INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT, ETC.
3.02 HANGER AND BRACING WIRES SHALL NOT ATTACH TO OR BEND AROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO: PIPING, DUCTWORK, CONDUIT AND EQUIPMENT.
3.03 HANGER WIRES THAT ARE MORE THAN ONE (HORIZONTAL) IN SIX (VERTICAL) OUT OF PLUMB SHALL HAVE COUNTER-SLOPING WIRES.
3.04 SLACK SAFETY WIRES SHALL BE CONSIDERED HANGER WIRES FOR INSTALLATION AND TESTING REQUIREMENTS.
3.05 HANGER AND BRACING WIRE ANCHORAGE TO THE STRUCTURE SHALL BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHORAGE ALIGNS CLOSELY WITH THE DIRECTION OF THE WIRE. (E.G. BRACING WIRE CEILING CLIPS MUST BE BENT AS SHOWN IN THE DETAILS AND ROTATED AS REQUIRED TO ALIGN CLOSELY WITH THE DIRECTION OF THE WIRE, ETC.)

4. FASTENERS AND WELDING:

4.01 SHEET METAL SCREWS SHALL COMPLY WITH ASTM C1513-10, ASME B18.6.4-89 (R2005). PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHALL NOT BE LESS THAN THREE EXPOSED THREADS.
4.02 EXPANSION ANCHORS SHALL BE: NA
4.03 POWER-ACTUATED FASTENERS SHALL BE: NA
4.04 IF NOT OTHERWISE SPECIFIED IN THE EVALUATION REPORT, POWER-ACTUATED FASTENERS INSTALLED IN STEEL SHALL BE INSTALLED SO THE ENTIRE POINTED END OF THE FASTENER IS DRIVEN THROUGH THE STEEL MEMBER.
4.05 POWER-ACTUATED FASTENERS IN CONCRETE ARE NOT PERMITTED FOR BRACING WIRES.
4.06 CONCRETE REINFORCEMENT AND PRESTRESSING TENDONS SHALL BE LOCATED BY NON DESTRUCTIVE MEANS PRIOR TO INSTALLING POST - INSTALLED ANCHOR.
4.07 WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3 USING E60XX SERIES ELECTRODES.

5. TESTING: ALL FIELD TESTING MUST BE PERFORMED IN THE PRESENCE OF THE PROJECT INSPECTOR.

5.01 POST-INSTALLED ANCHORS IN CONCRETE USED TO SUPPORT HANGER WIRES SHALL BE TESTED AT A FREQUENCY OF 10 PERCENT. POWER ACTUATED FASTENERS IN CONCRETE SHALL BE FIELD TESTED FOR 200 LBS. IN TENSION. ALL OTHER POST-INSTALLED ANCHORS IN CONCRETE SHALL BE TESTED IN ACCORDANCE WITH CBC SECTION 1913A.7.
5.02 POST-INSTALLED ANCHORS IN CONCRETE USED TO ATTACH BRACING WIRES SHALL BE TESTED AT A FREQUENCY OF 50 PERCENT IN ACCORDANCE WITH CBC SECTION 1913A.7.

6. LUMINAIRES:

6.01 ALL LUMINAIRES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURE. A MINIMUM OF TWO SCREWS OR APPROVED FASTENERS ARE REQUIRED AT EACH LUMINAIRES, PER ASTM E580, SECTION 5.3.1.
6.02 SURFACE-MOUNTED LUMINAIRES SHALL BE ATTACHED TO THE MAIN RUNNER WITH AT LEAST TWO POSITIVE CLAMPING DEVICES. THE CLAMPING DEVICE SHALL COMPLETELY SURROUND THE SUPPORTING CEILING RUNNER AND BE MADE OF STEEL WITH A MINIMUM THICKNESS OF #14 GAGE. ROTATIONAL SPRING CATCHES DO NOT COMPLY. A #12 GAGE SLACK SAFETY WIRE SHALL BE CONNECTED FROM EACH CLAMPING DEVICE TO THE STRUCTURE ABOVE. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE EIGHT (8) FEET OR LONGER OR EXCEED 56 LB. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED EIGHT (8) FEET.
6.03 LUMINAIRES WEIGHING LESS THAN OR EQUAL TO 10 LB. SHALL HAVE A MINIMUM OF ONE (1) #12 GAGE SLACK SAFETY WIRE CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE.
6.04 LUMINAIRES WEIGHING GREATER THAN 10 LB. BUT LESS THAN OR EQUAL TO 56 LBS. MAY BE SUPPORTED DIRECTLY ON THE CEILING RUNNERS, BUT THEY SHALL HAVE A MINIMUM OF TWO (2) #12 GAGE SLACK SAFETY WIRE CONNECTED FROM THE FIXTURE HOUSING AT DIAGONAL CORNERS TO THE STRUCTURE ABOVE.
EXCEPTION: ALL LUMINAIRES GREATER THAN TWO BY FOUR FEET WEIGHING LESS THAN 56LBS. SHALL HAVE A #12 GAGE SLACK SAFETY WIRE AT EACH CORNER.
6.05 ALL LUMINAIRES WEIGHING GREATER THAN 56 LB. SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR (4) TAUT #12 GAGE HANGER WIRES (ONE AT EACH CORNER) ATTACHED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS. THE FOUR (4) TAUT #12 GAGE WIRES OR OTHER APPROVED HANGERS, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, SHALL BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE FIXTURE.

7. SERVICES WITHIN THE CEILING:

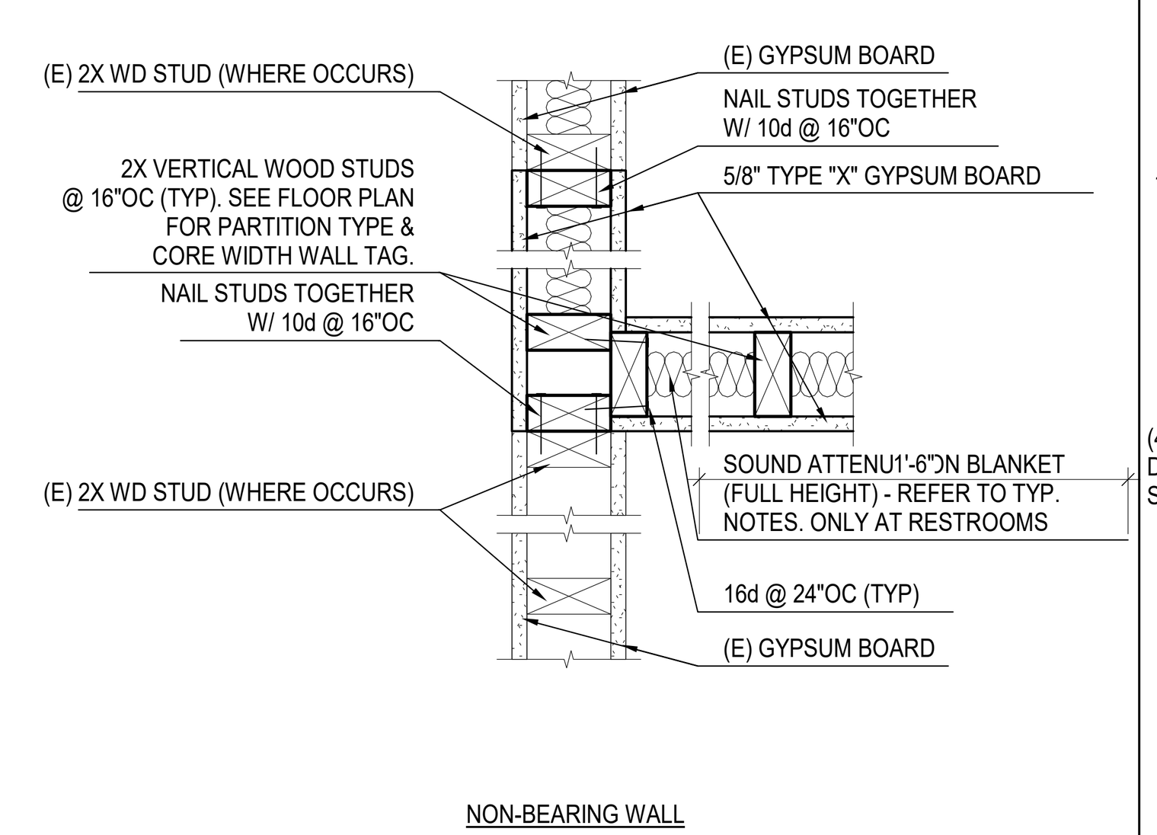
7.01 ALL FLEXIBLE SPRINKLER HOSE FITTING MOUNTING BRACKETS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS. SCREWS OR APPROVED FASTENERS ARE REQUIRED. A MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH COMPONENT.
7.02 CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING LESS THAN OR EQUAL TO 20 LB. SHALL HAVE ONE (1) #12 GAGE SLACK SAFETY WIRE ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.
7.03 FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 20 LB. BUT LESS THAN OR EQUAL TO 56 LB. SHALL HAVE TWO (2) #12 GAGE SLACK SAFETY WIRES (AT DIAGONAL CORNERS) CONNECTED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.
7.04 FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 56 LB. SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY NOT LESS THAN FOUR (4) TAUT #12 GAGE HANGER WIRES ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS.

8. OTHER DEVICES WITHIN THE CEILING:

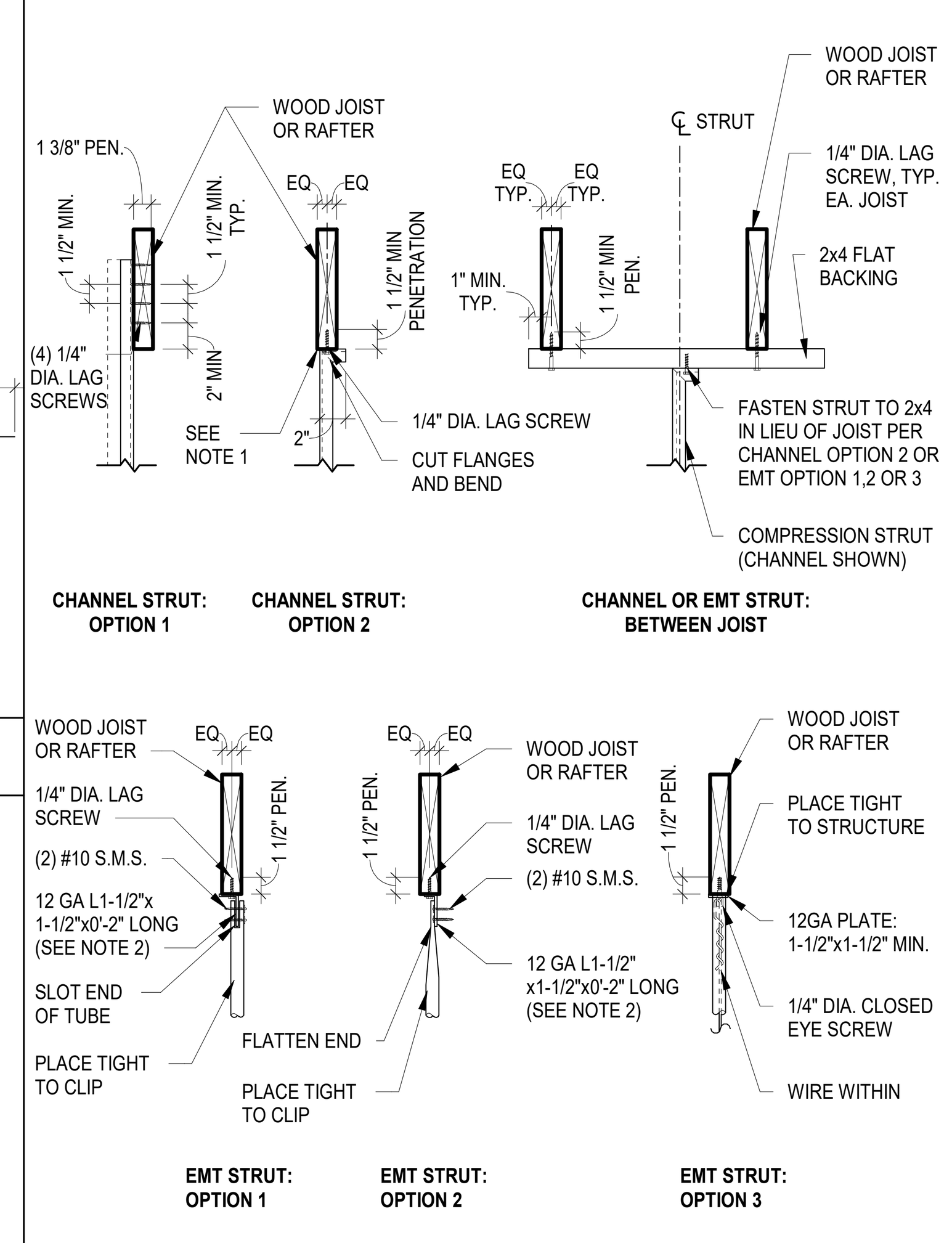
8.01 ALL LIGHTWEIGHT MISCELLANEOUS DEVICES, SUCH AS STROBE LIGHTS, OCCUPANCY SENSORS, SPEAKERS, EXIT SIGNS, ETC., SHALL BE ATTACHED TO THE CEILING GRID. IN ADDITION, DEVICES WEIGHING MORE THAN 10 LBS. SHALL HAVE A #12 GAGE SLACK SAFETY WIRE ANCHORED TO THE STRUCTURE ABOVE. DEVICES WEIGHING MORE THAN 20 LB. SHALL BE SUPPORTED INDEPENDENTLY FROM THE STRUCTURE ABOVE.

095100.1.00-S DSA IR 25-2 #1.00 - Rev 03/18/22

13 SUSPENDED CEILING NOTES
1/2" = 1'-0"



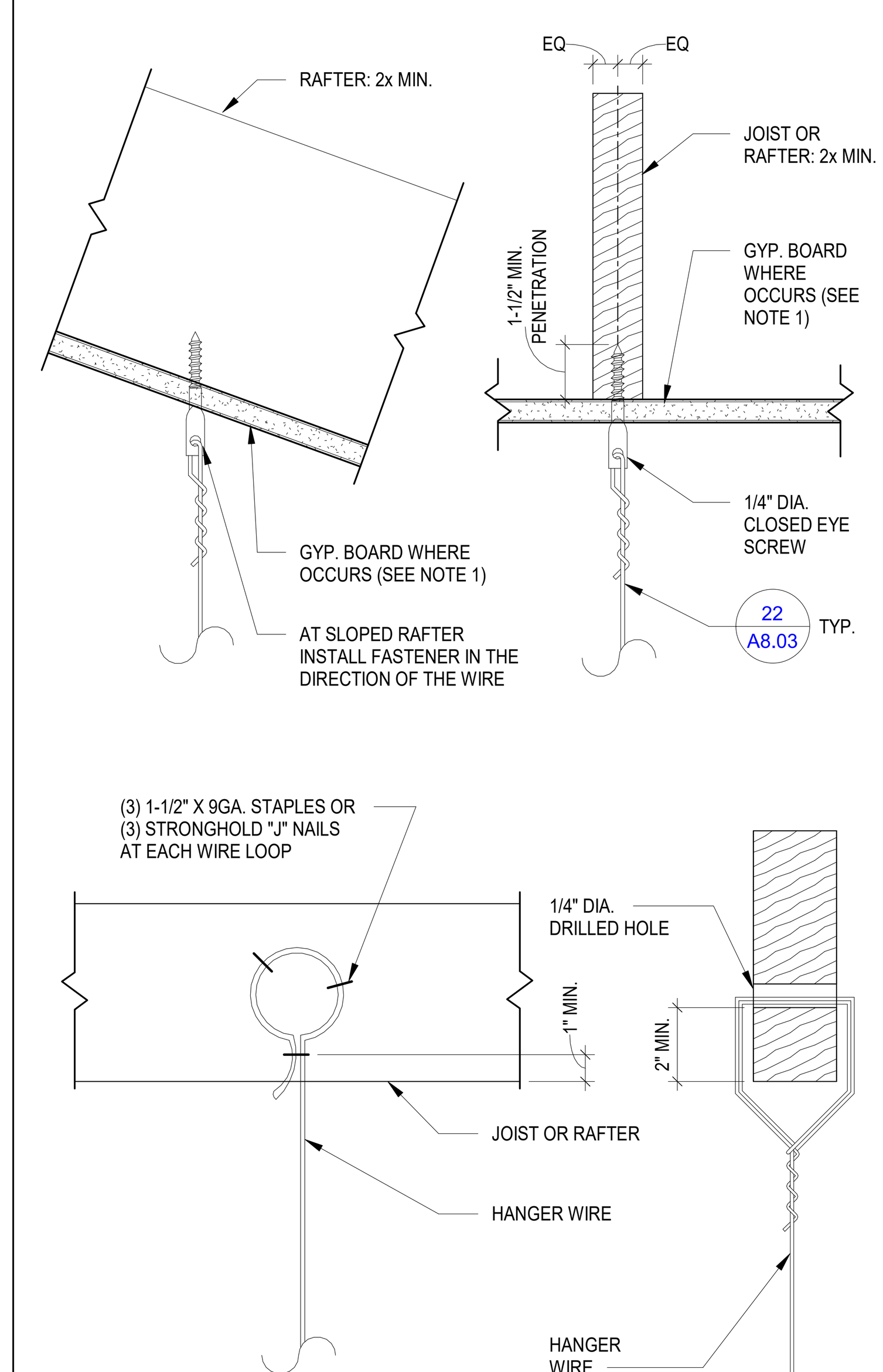
17 (E) WALL TO (N) WALL CONNECTION
1 1/2" = 1'-0"



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.
3. PEN. = MINIMUM PENETRATION OF LAG SCREW THREADS INTO THE WOOD MEMBER.
4. NO. 14 WOOD SCREW MAY BE USED IN LIEU OF 1/4" LAG SCREW.

095100.5.60-S DSA IR 25-2 #5.51 - Rev 03/18/22

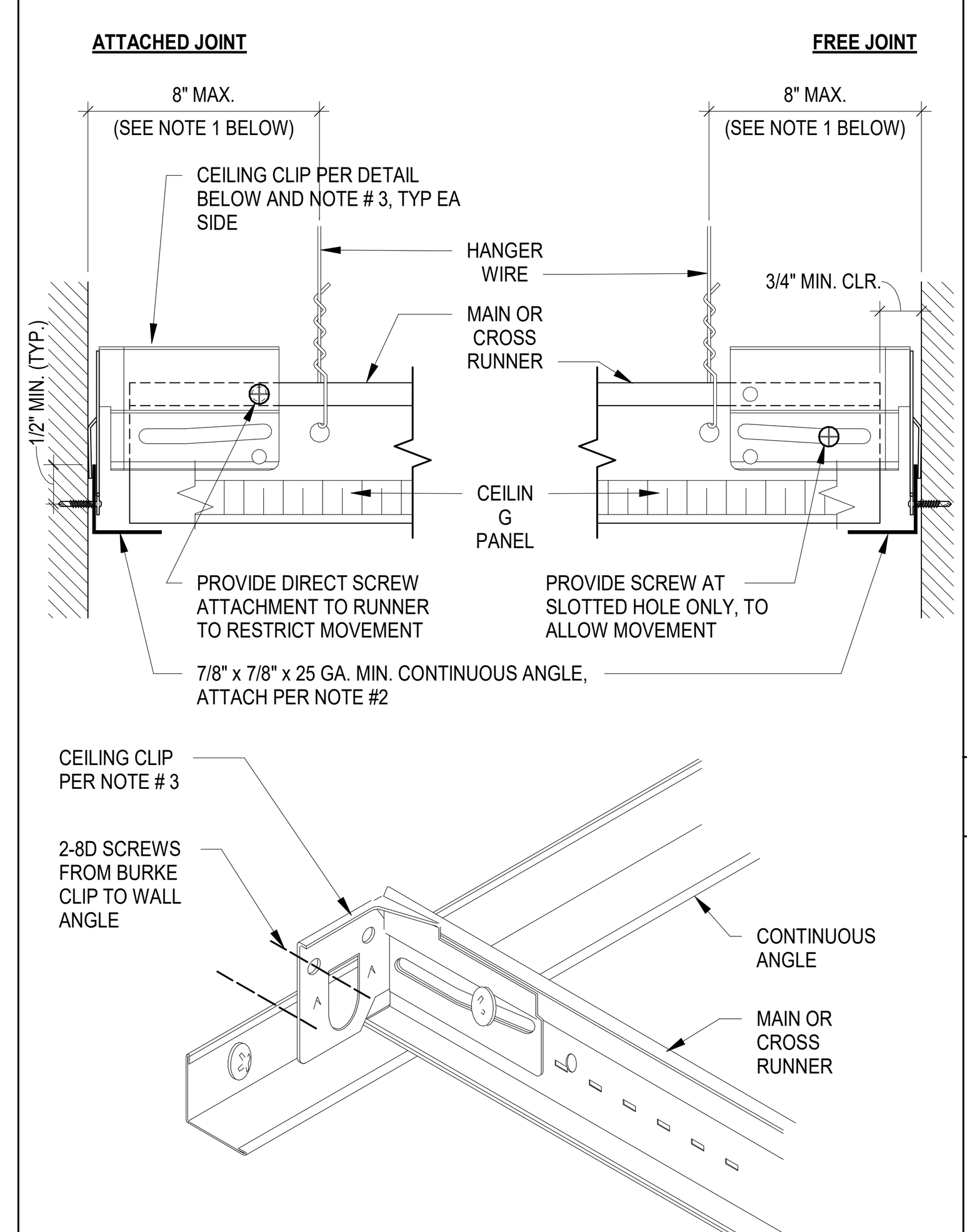
10 STRUT TO WOOD FRAMING
1" = 1'-0"



NOTE:
1. WHEN FIRE RATED GYP. BOARD IS INSTALLED ON THE BOTTOM FLANGES, USE SCREW EYES W/ SUFFICIENT LENGTH TO AVOID DAMAGING THE FIRE RATED GYP. BOARD AND MEET MIN. PENETRATION.

095100.4.25-S DSA IR 25-2 #4.25 - Rev 03/18/22

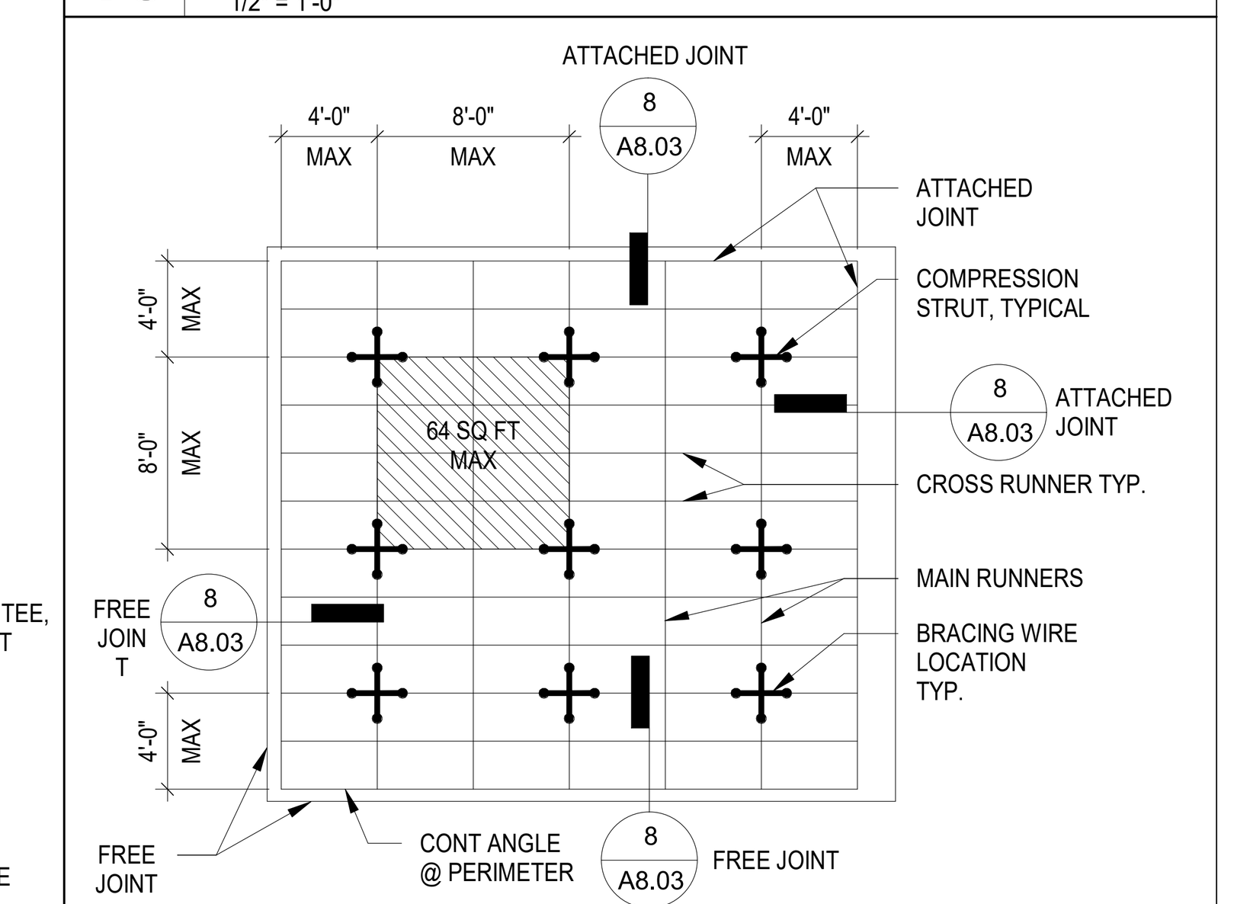
9 HANGER WIRE TO WOOD
3" = 1'-0"



NOTES:
1. PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FORTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.
2. AT METAL STUD FRAMING: (1) #10 SMS TO 20 GA. MIN. WALL STUD @ 24" O.C. AT WOOD STUD FRAMING: (1) #10 WOOD SCREW TO 2X MIN. WALL STUD @ 24" O.C.
3. CELING CLIP: ARMSTRONG BERC2 CLIP, OR EQUAL
4. SLOPED CEILING: USE ACCEPTABLE SUSPENSION SYSTEM & ACCESSORIES. WALL ANGLE ARE PAINTED AND WALL SHIMMED TO ACHIEVE THE CORRECT ANGLE. 7/8" WALL ANGLE ITEM 7800 SHOULD BE USED. PER MANUFACTURERS RECOMMENDATION.

095100.2.60-S DSA IR 25-2 #2.60 - Rev 03/18/22

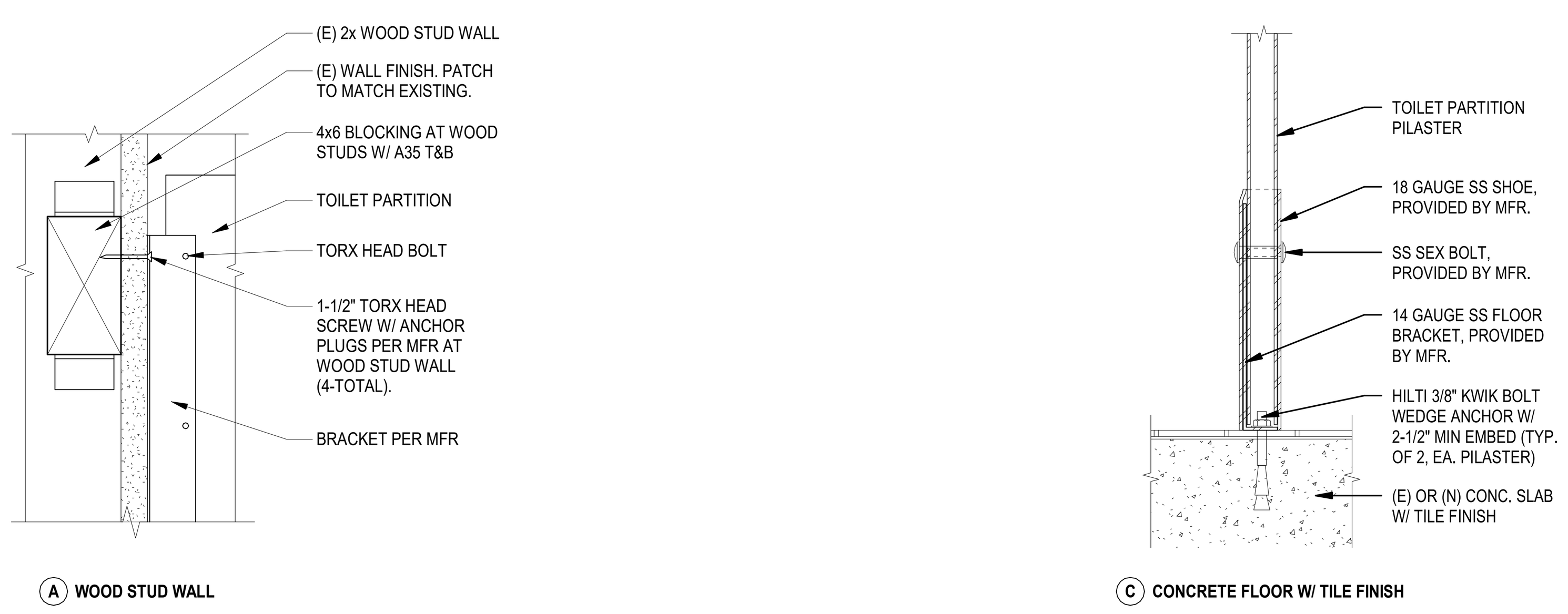
8 SUSPENDED CEILING PERIMETER JOINTS
6" = 1'-0"



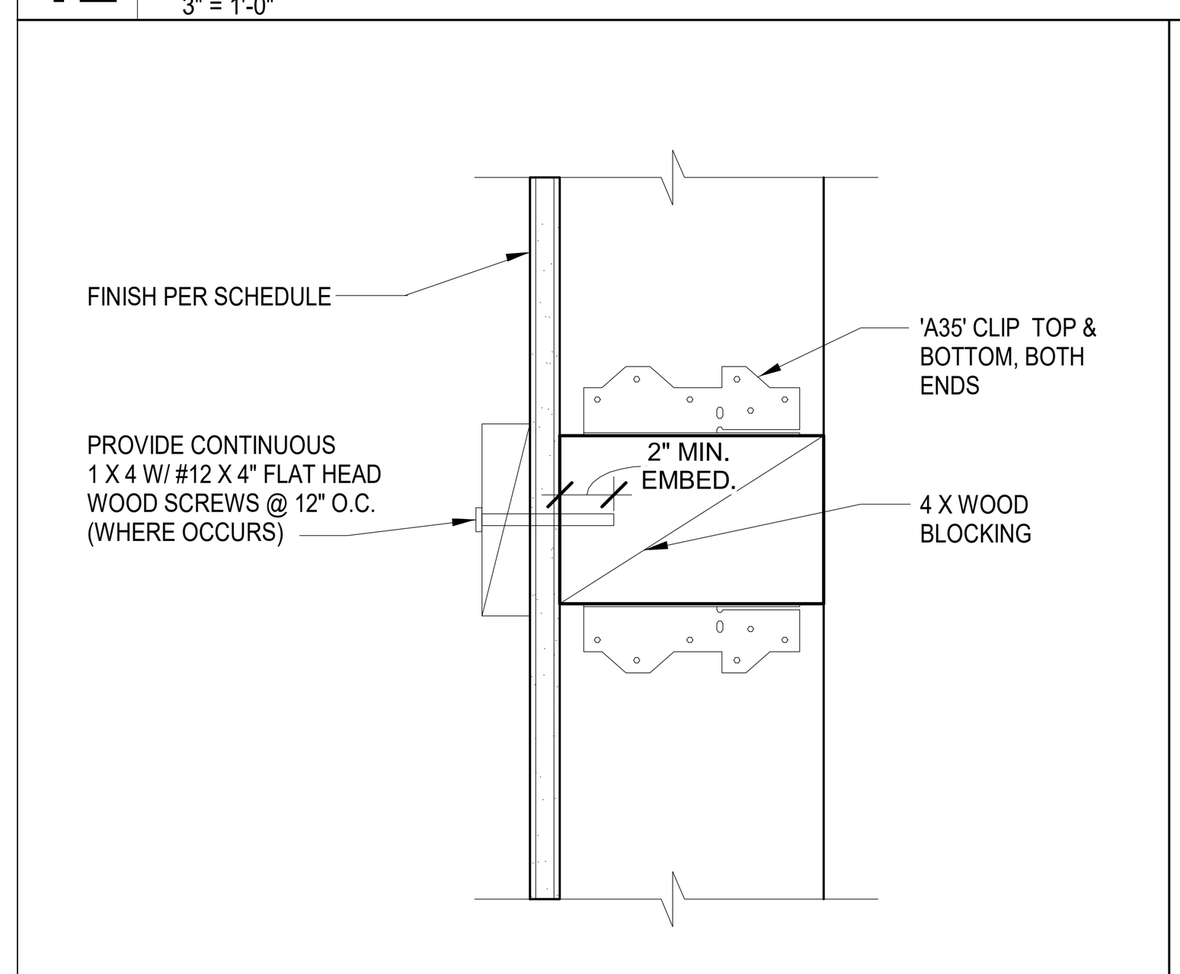
NOTE: BRACING WIRES AND COMP. STRUT SHALL OCCUR AT EVERY 64 SQ. FT. MAX. IN ROOMS OVER 144 SQ. FT.

095100.2.10-S DSA IR 25-2 #2.10 - Rev 03/18/22

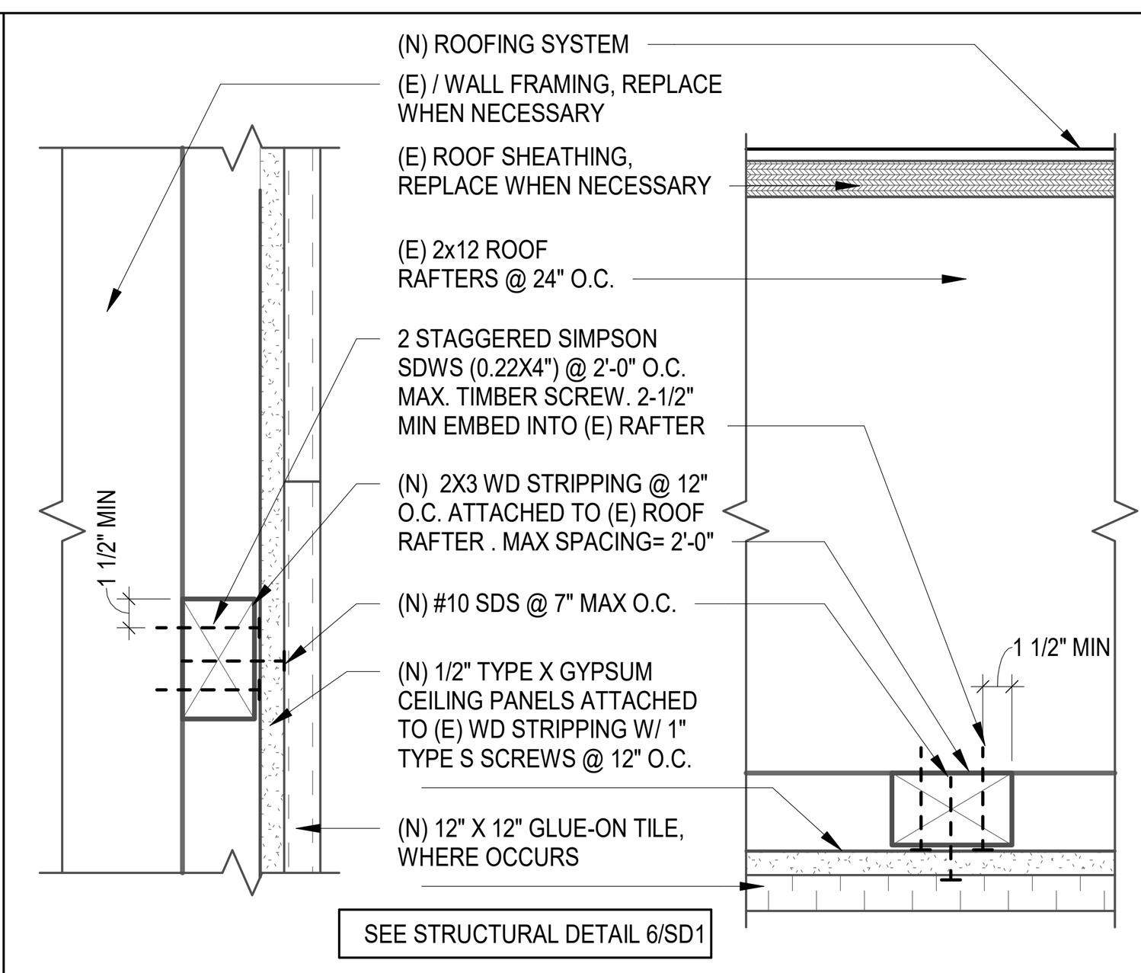
7 TYP CEILING PLAN
1/8" = 1'-0"



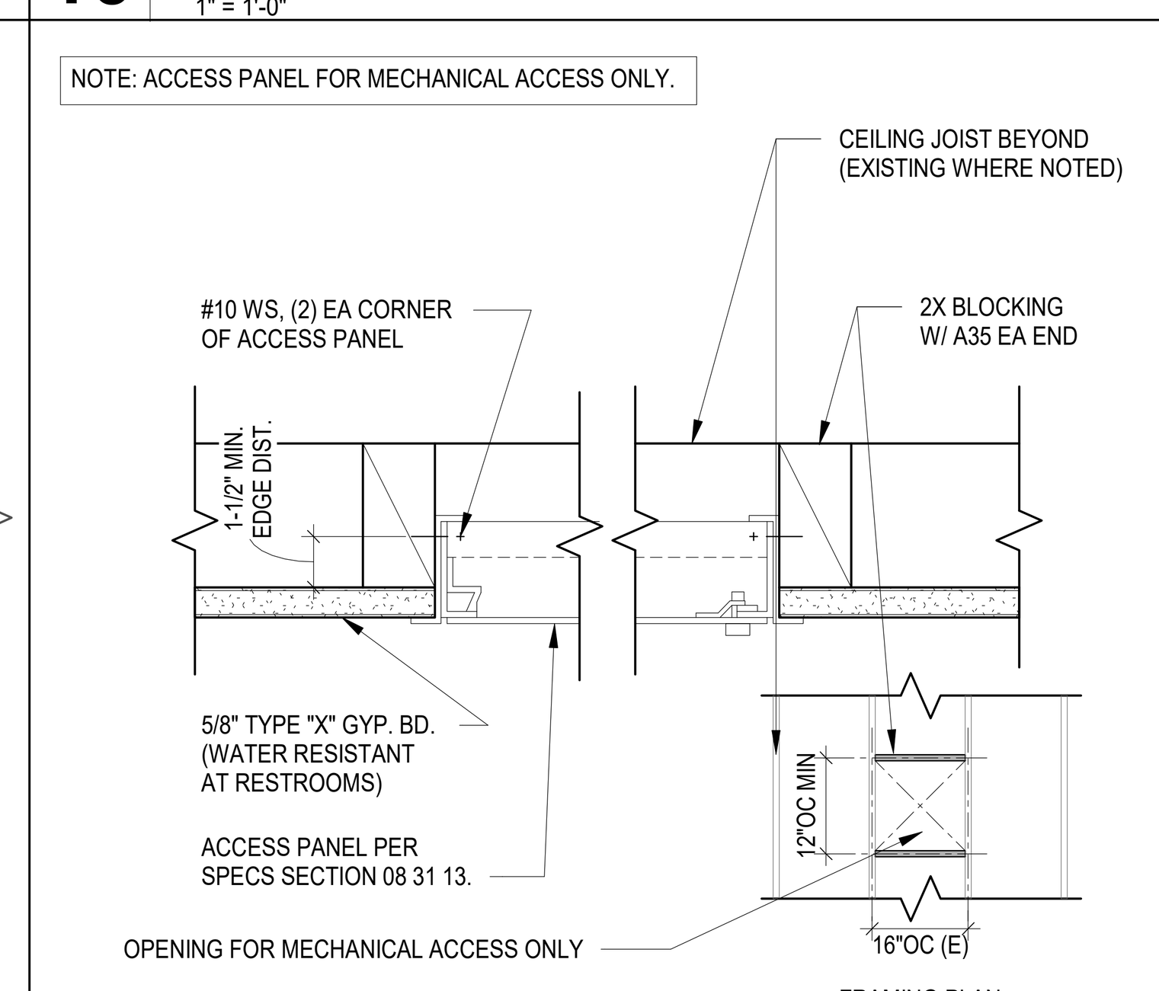
12 PARTITION MOUNTING DETAILS
3" = 1'-0"



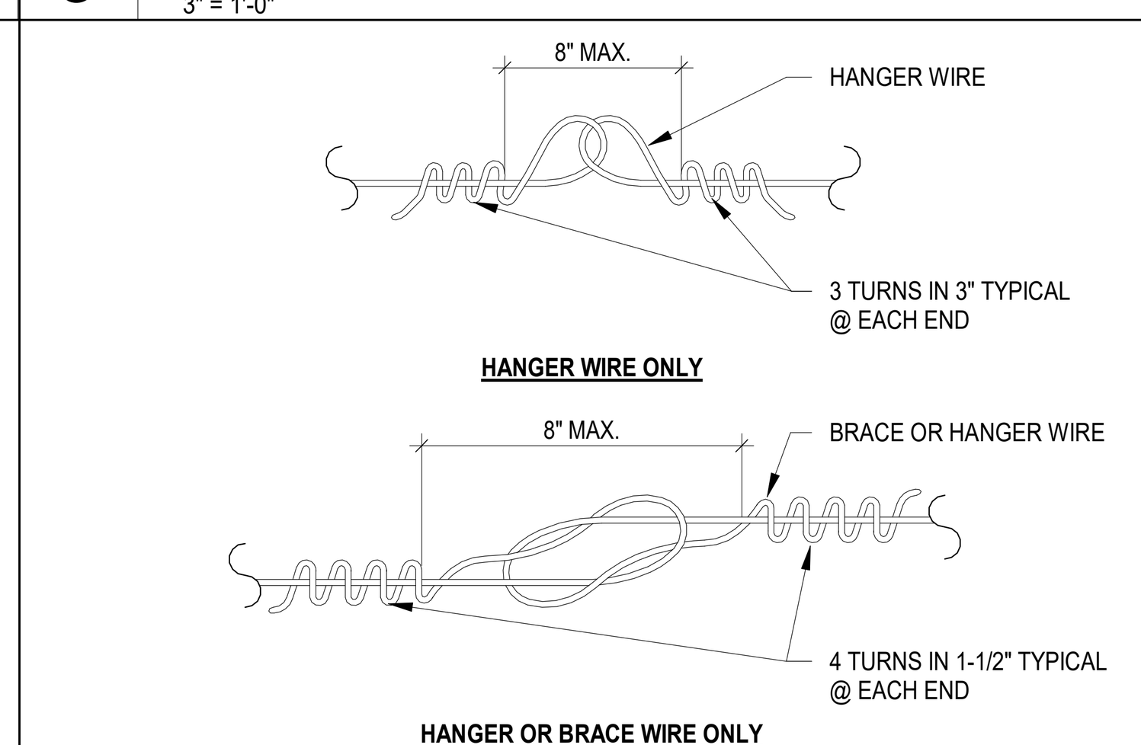
6 TYPICAL BACKING SUPPORT DETAIL
3" = 1'-0"



5 GYP. BD. WALL / CEILING
3" = 1'-0"



4 ACCESS PANEL
3" = 1'-0"



NOTES:
1. WIRE SPLICES ARE SHOWN LOOSELY TIED FOR ILLUSTRATIVE PURPOSES ONLY AND SHALL BE DRAWN TIGHT TO COMPLETE INSTALLATION WHEN CONSTRUCTED.
2. WIRE LOOPS SHALL BE TIGHTLY WRAPPED AND SHARPLY BENT TO PREVENT ANY VERTICAL MOVEMENT OR ROTATION WITHIN THE LOOPS.
3. EACH HANGER AND BRACE WIRE SHALL BE SPLICED NO MORE THAN ONCE ALONG ITS LENGTH

095100.6.10-S DSA IR 25-2 #6.10 - Rev 03/18/22

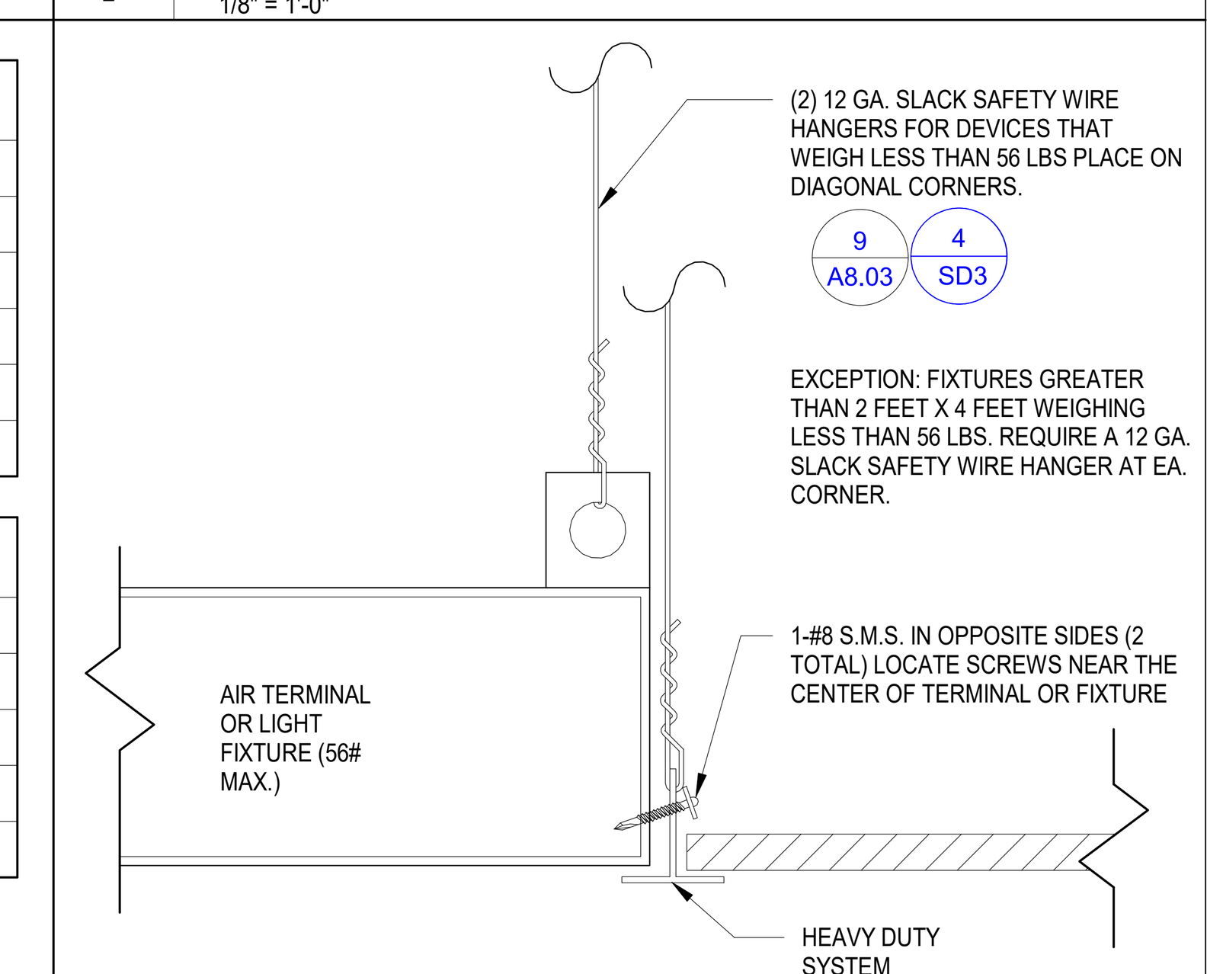
3 CEILING WIRE SPLICES
6" = 1'-0"

COMPRESSION STRUT EMT SECTION	MAXIMUM LENGTH
1/2" DIAMETER EMT (0.042" WALL THICKNESS)	3'-11"
3/4" DIAMETER EMT (0.049" WALL THICKNESS)	6'-4"
1" DIAMETER EMT (0.057" WALL THICKNESS)	9'-9"
1 1/4" DIAMETER EMT (0.065" WALL THICKNESS)	12'-9"
1 1/2" DIAMETER EMT (0.065" WALL THICKNESS)	14'-9"
2" DIAMETER EMT (0.065" WALL THICKNESS)	18'-10"

COMPRESSION STRUT CHANNEL SECTION	MAXIMUM LENGTH
250S125-33	5'-10"
250S137-33	6'-10"
362S137-33	8'-0"
250S137-43	8'-10"
400S137-43	10'-10"

095100.3.21-S DSA IR 25-2 #3.21 - Rev 03/18/22

2 COMPRESSION STRUT TABLE
1/2" = 1'-0"



095100.2.80-S DSA IR 25-2 #2.80 - Rev 03/18/22

1 SUSPENDED LIGHT FIXT./AIR TERMINALS
3" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121814 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/11/2023

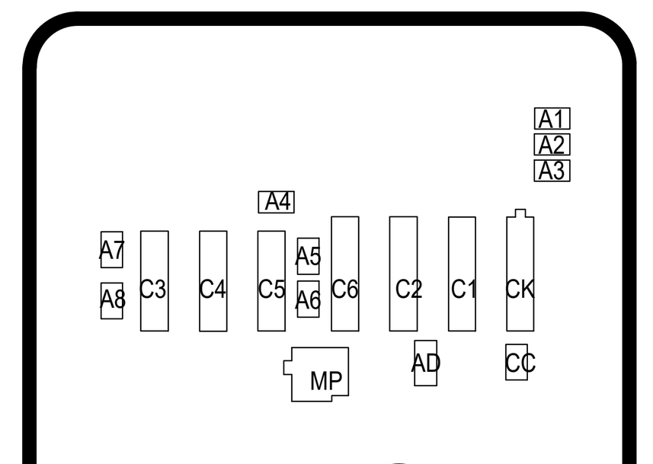
PBK

ARCHITECT PBK Architects, Inc.
PBK.com
ANAHEIM
2400 E. Katella Ave. #910
Anaheim, CA 92806
P 949-548-5000

FINLEY ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
13521 Edwards St.,
Westminster, CA 92683

DSA SUBMITTAL
DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43



KEY PLAN
NORTH PLAN

Consultant

Architect
LICENSED ARCHITECT
Yong Yoo
No. C-31162
REN. 10-31-2023
STATE OF CALIFORNIA

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
05-16-2023	220307

REVISIONS

No.	Description	Date

DSA SUBMITTAL

CEILING & MISC DETAILS

A8.03

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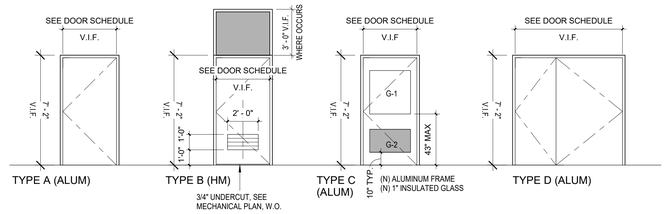
6/6/2023 11:58:55 AM

A9.01 - DOORS SCHEDULE & WINDOWS FRAMING ELEVATION

0" 1"

DOOR SCHEDULE

DOOR #	ROOM NAME	BUILDING NAME	DOOR Pair/Single	DOOR SIZE W x H WIDTH	DOOR SIZE W x H HEIGHT	DOOR MATL	DOOR Finish	FRAME TYPE	FRAME MATL	FRAME FINISH	DETAILS SILL	DETAILS JAMB	DETAILS HEAD	HARDWARE	Fire Rating	Panic Hardware	ACCESSIBLE LOCKING HARDWARE	COMMENTS
3-1	CLASSROOM 3	BLDG CK	SINGLE	3' - 0"	7' - 0"	SC/WD	PTD	A	ALUM	PTD	7/A8.01	20&26/A8.01	9/A8.01	1		Yes	X	Lockable from inside
3-2	CLASSROOM 3	BLDG CK	SINGLE	3' - 0"	7' - 0"	SC/WD	PTD	A	ALUM	PTD	7/A8.01	20&26/A8.01	9/A8.01	1		No	X	Lockable from inside
4-1	CLASSROOM 4	BLDG C1	SINGLE	3' - 0"	7' - 0"	SC/WD	PTD	A	ALUM	PTD	7/A8.01	20&26/A8.01	9/A8.01	1		Yes	X	Lockable from inside
4-2	CLASSROOM 4	BLDG C1	SINGLE	3' - 0"	7' - 0"	SC/WD	PTD	A	ALUM	PTD	7/A8.01	20&26/A8.01	9/A8.01	1		No	X	Lockable from inside
5-1	CLASSROOM 5	BLDG C1	SINGLE	3' - 0"	7' - 0"	SC/WD	PTD	A	ALUM	PTD	7/A8.01	20&26/A8.01	9/A8.01	1		Yes	X	Lockable from inside
5-2	CLASSROOM 5	BLDG C1	SINGLE	3' - 0"	7' - 0"	SC/WD	PTD	A	ALUM	PTD	7/A8.01	20&26/A8.01	9/A8.01	1		No	X	Lockable from inside
6-1	CLASSROOM 6	BLDG C1	SINGLE	3' - 0"	7' - 0"	SC/WD	PTD	A	ALUM	PTD	7/A8.01	20&26/A8.01	9/A8.01	1		Yes	X	Lockable from inside
6-2	CLASSROOM 6	BLDG C1	SINGLE	3' - 0"	7' - 0"	SC/WD	PTD	A	ALUM	PTD	7/A8.01	20&26/A8.01	9/A8.01	1		No	X	Lockable from inside
6-16	STAFF TOILET 2	ADMIN	SINGLE	3' - 0"	7' - 0"	WOOD	PTD	B	HM	PTD	7/A8.01	27/A8.01	16 & 22/A8.01	3		No		
8-1	CLASSROOM 8	BLDG C2	SINGLE	3' - 0"	7' - 0"	SC/WD	PTD	A	ALUM	PTD	7/A8.01	20&26/A8.01	9/A8.01	1		Yes	X	Lockable from inside
8-2	CLASSROOM 8	BLDG C2	SINGLE	3' - 0"	7' - 0"	SC/WD	PTD	A	ALUM	PTD	7/A8.01	20&26/A8.01	9/A8.01	1		No	X	Lockable from inside
9-1	CLASSROOM 9	BLDG C2	SINGLE	3' - 0"	7' - 0"	SC/WD	PTD	A	ALUM	PTD	7/A8.01	20&26/A8.01	9/A8.01	1		Yes	X	Lockable from inside
9-2	CLASSROOM 9	BLDG C2	SINGLE	3' - 0"	7' - 0"	SC/WD	PTD	A	ALUM	PTD	7/A8.01	20&26/A8.01	9/A8.01	1		No	X	Lockable from inside
10-1	CLASSROOM 10	BLDG C2	SINGLE	3' - 0"	7' - 0"	SC/WD	PTD	A	ALUM	PTD	7/A8.01	20&26/A8.01	9/A8.01	1		Yes	X	Lockable from inside
10-2	CLASSROOM 10	BLDG C2	SINGLE	3' - 0"	7' - 0"	SC/WD	PTD	A	ALUM	PTD	7/A8.01	20&26/A8.01	9/A8.01	1		No	X	Lockable from inside
11-1	CLASSROOM 11	BLDG C6	SINGLE	3' - 0"	7' - 0"	SC/WD	PTD	A	ALUM	PTD	7/A8.01	20&26/A8.01	9/A8.01	1		Yes	X	Lockable from inside
11-2	CLASSROOM 11	BLDG C6	SINGLE	3' - 0"	7' - 0"	SC/WD	PTD	A	ALUM	PTD	7/A8.01	20&26/A8.01	9/A8.01	1		No	X	Lockable from inside
12-1	CLASSROOM 12	BLDG C6	SINGLE	3' - 0"	7' - 0"	SC/WD	PTD	A	ALUM	PTD	7/A8.01	20&26/A8.01	9/A8.01	1		Yes	X	Lockable from inside
12-2	CLASSROOM 12	BLDG C6	SINGLE	3' - 0"	7' - 0"	SC/WD	PTD	A	ALUM	PTD	7/A8.01	20&26/A8.01	9/A8.01	1		No	X	Lockable from inside
13-1	CLASSROOM 13	BLDG C6	SINGLE	3' - 0"	7' - 0"	SC/WD	PTD	A	ALUM	PTD	7/A8.01	20&26/A8.01	9/A8.01	1		Yes	X	Lockable from inside
13-2	CLASSROOM 13	BLDG C6	SINGLE	3' - 0"	7' - 0"	SC/WD	PTD	A	ALUM	PTD	7/A8.01	20&26/A8.01	9/A8.01	1		No	X	Lockable from inside
14-1	CLASSROOM 14	BLDG C6	SINGLE	3' - 0"	7' - 0"	SC/WD	PTD	A	ALUM	PTD	7/A8.01	20&26/A8.01	9/A8.01	1		Yes	X	Lockable from inside
14-2	CLASSROOM 14	BLDG C6	SINGLE	3' - 0"	7' - 0"	SC/WD	PTD	A	ALUM	PTD	7/A8.01	20&26/A8.01	9/A8.01	1		No	X	Lockable from inside
15-1	CLASSROOM 15	BLDG C3	SINGLE	3' - 0"	7' - 0"	SC/WD	PTD	A	ALUM	PTD	7/A8.01	20&26/A8.01	9/A8.01	1		Yes	X	Lockable from inside
15-2	CLASSROOM 15	BLDG C3	SINGLE	3' - 0"	7' - 0"	SC/WD	PTD	A	ALUM	PTD	7/A8.01	20&26/A8.01	9/A8.01	1		No	X	Lockable from inside
16-1	CLASSROOM 16	BLDG C3	SINGLE	3' - 0"	7' - 0"	SC/WD	PTD	A	ALUM	PTD	7/A8.01	20&26/A8.01	9/A8.01	1		Yes	X	Lockable from inside
16-2	CLASSROOM 16	BLDG C3	SINGLE	3' - 0"	7' - 0"	SC/WD	PTD	A	ALUM	PTD	7/A8.01	20&26/A8.01	9/A8.01	1		No	X	Lockable from inside
17-1	CLASSROOM 17	BLDG C3	SINGLE	3' - 0"	7' - 0"	SC/WD	PTD	A	ALUM	PTD	7/A8.01	20&26/A8.01	9/A8.01	1		Yes	X	Lockable from inside
17-2	CLASSROOM 16	BLDG C3	SINGLE	3' - 0"	7' - 0"	SC/WD	PTD	A	ALUM	PTD	7/A8.01	20&26/A8.01	9/A8.01	1		No	X	Lockable from inside
18-1	CLASSROOM 18	BLDG C4	SINGLE	3' - 0"	7' - 0"	SC/WD	PTD	A	ALUM	PTD	7/A8.01	20&26/A8.01	9/A8.01	1		Yes	X	Lockable from inside
18-2	CLASSROOM 18	BLDG C4	SINGLE	3' - 0"	7' - 0"	SC/WD	PTD	A	ALUM	PTD	7/A8.01	20&26/A8.01	9/A8.01	1		No	X	Lockable from inside
19-1	CLASSROOM 19	BLDG C4	SINGLE	3' - 0"	7' - 0"	SC/WD	PTD	A	ALUM	PTD	7/A8.01	20&26/A8.01	9/A8.01	1		Yes	X	Lockable from inside
19-2	CLASSROOM 19	BLDG C4	SINGLE	3' - 0"	7' - 0"	SC/WD	PTD	A	ALUM	PTD	7/A8.01	20&26/A8.01	9/A8.01	1		No	X	Lockable from inside
20-1	CLASSROOM 20	BLDG C4	SINGLE	3' - 0"	7' - 0"	SC/WD	PTD	A	ALUM	PTD	7/A8.01	20&26/A8.01	9/A8.01	1		Yes	X	Lockable from inside
20-2	CLASSROOM 20	BLDG C4	SINGLE	3' - 0"	7' - 0"	SC/WD	PTD	A	ALUM	PTD	7/A8.01	20&26/A8.01	9/A8.01	1		No	X	Lockable from inside
21-1	CLASSROOM 21	BLDG C4	SINGLE	3' - 0"	7' - 0"	SC/WD	PTD	A	ALUM	PTD	7/A8.01	20&26/A8.01	9/A8.01	1		Yes	X	Lockable from inside
21-2	CLASSROOM 21	BLDG C4	SINGLE	3' - 0"	7' - 0"	SC/WD	PTD	A	ALUM	PTD	7/A8.01	20&26/A8.01	9/A8.01	1		No	X	Lockable from inside
22-1	CLASSROOM 22	BLDG C4	SINGLE	3' - 0"	7' - 0"	SC/WD	PTD	A	ALUM	PTD	7/A8.01	20&26/A8.01	9/A8.01	1		Yes	X	Lockable from inside
22-2	CLASSROOM 22	BLDG C4	SINGLE	3' - 0"	7' - 0"	SC/WD	PTD	A	ALUM	PTD	7/A8.01	20&26/A8.01	9/A8.01	1		No	X	Lockable from inside
23-1	CLASSROOM 23	BLDG C4	SINGLE	3' - 0"	7' - 0"	SC/WD	PTD	A	ALUM	PTD	7/A8.01	20&26/A8.01	9/A8.01	1		Yes	X	Lockable from inside
23-2	CLASSROOM 23	BLDG C4	SINGLE	3' - 0"	7' - 0"	SC/WD	PTD	A	ALUM	PTD	7/A8.01	20&26/A8.01	9/A8.01	1		No	X	Lockable from inside
K1-1	KINDERGARTEN K1	BLDG CK	PAIR	5' - 0" (30" / 24")	7' - 0"	SC/WD	PTD	D	ALUM	PTD	7/A8.01	20&26/A8.01	9/A8.01	4		Yes	X	Lockable from inside
K1-2	KINDERGARTEN K1	BLDG CK	PAIR	5' - 0" (30" / 24")	7' - 0"	SC/WD	PTD	D	ALUM	PTD	7/A8.01	20&26/A8.01	9/A8.01	4		No	X	Lockable from inside
K2-1	KINDERGARTEN K2	BLDG CK	PAIR	5' - 0" (30" / 24")	7' - 0"	SC/WD	PTD	D	ALUM	PTD	7/A8.01	20&26/A8.01	9/A8.01	4		Yes	X	Lockable from inside
K2-2	KINDERGARTEN K2	BLDG CK	PAIR	5' - 0" (30" / 24")	7' - 0"	SC/WD	PTD	D	ALUM	PTD	7/A8.01	20&26/A8.01	9/A8.01	4		No	X	Lockable from inside



NOTE:

G-1 = TG (TEMPERED GLASS)
G-2 = TG/TINT (TEMPERED GLASS/TINTED GLASS
REFERENCE SCHEDULE ABBREVIATIONS

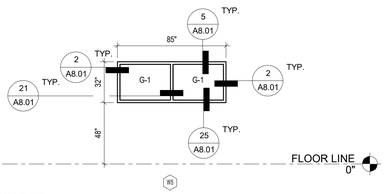
GLASS COLOR TO BE VERIFIED BY THE DISTRICT

DOOR TYPE LEGEND

1/4" = 1'-0"

DOOR & WINDOW SCHEDULE ABBREVIATIONS

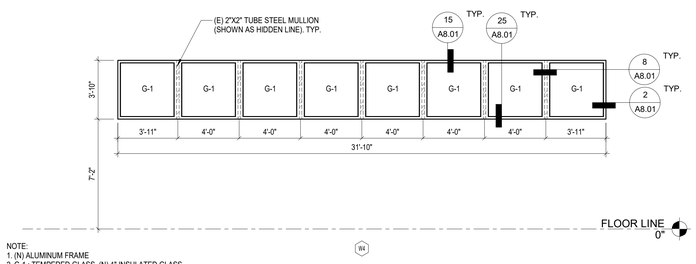
ALUM	ALUMINUM
FF	FACTORY FINISH
HM	HOLLOW METAL
N/A	NOT APPLICABLE
PTD	PAINT
SC	SOLID CORE
ST	STAIN
WD	WOOD



NOTE:
1. (N) ALUMINUM FRAME
2. G-1 : TEMPERED GLASS (N) 1" INSULATED GLASS. SEE GLAZING SPECS.
3. USE BRONZE GLAZING COLOR
4. FIELD VERIFY ALL DIMENSIONS

12 WINDOW FRAMING ELEVATION - W5

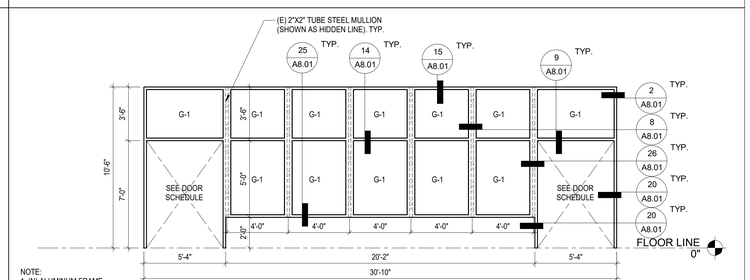
1/4" = 1'-0"



NOTE:
1. (N) ALUMINUM FRAME
2. G-1 : TEMPERED GLASS (N) 1" INSULATED GLASS. SEE GLAZING SPECS.
3. USE BRONZE GLAZING COLOR
4. FIELD VERIFY ALL DIMENSIONS

10 WINDOW FRAMING ELEVATION - W4

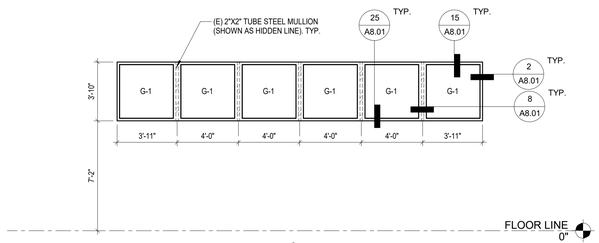
1/4" = 1'-0"



NOTE:
1. (N) ALUMINUM FRAME
2. G-1 : TEMPERED GLASS (N) 1" INSULATED GLASS. SEE GLAZING SPECS.
3. USE BRONZE GLAZING COLOR
4. FIELD VERIFY ALL DIMENSIONS

8 WINDOW FRAMING ELEVATION - W3

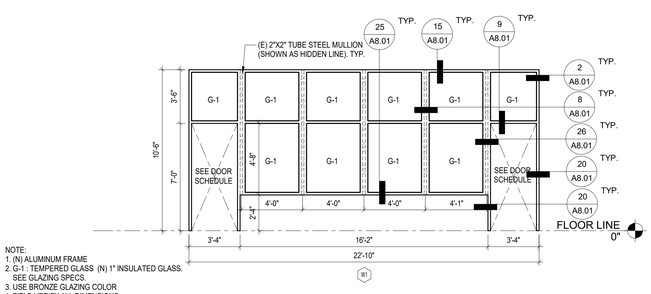
1/4" = 1'-0"



NOTE:
1. (N) ALUMINUM FRAME
2. G-1 : TEMPERED GLASS (N) 1" INSULATED GLASS. SEE GLAZING SPECS.
3. USE BRONZE GLAZING COLOR
4. FIELD VERIFY ALL DIMENSIONS

6 WINDOW FRAMING ELEVATION - W2

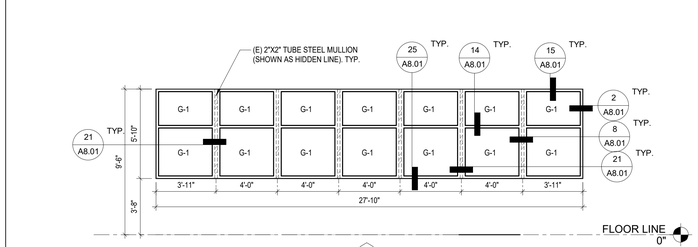
1/4" = 1'-0"



NOTE:
1. (N) ALUMINUM FRAME
2. G-1 : TEMPERED GLASS (N) 1" INSULATED GLASS. SEE GLAZING SPECS.
3. USE BRONZE GLAZING COLOR
4. FIELD VERIFY ALL DIMENSIONS

4 WINDOW FRAMING ELEVATION - W1

1/4" = 1'-0"



NOTE:
1. (N) ALUMINUM FRAME
2. G-1 : TEMPERED GLASS (N) 1" INSULATED GLASS. SEE GLAZING SPECS.
3. USE BRONZE GLAZING COLOR
4. FIELD VERIFY ALL DIMENSIONS

2 WINDOW FRAMING ELEVATION - AW1

1/4" = 1'-0"

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DATE: 08/11/2023

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FINLEY ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
13521 Edwards St.
Westminster, CA 92683

DSA SUBMITTAL

DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43

WESTMINSTER SCHOOL DISTRICT

A1 A2 A3 A4 A7 A8 C3 C4 A5 A6 C5 C6 C2 C1 CK MP A9 CC

KEY PLAN NORTH: PLAN

Consultant

Architect

LICENSED ARCHITECT Yong Yoo No. C-31162 REN. 10-31-2023 STATE OF CALIFORNIA

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
05-16-2023	220307

REVISIONS

No.	Description	Date

DSA SUBMITTAL

DOORS SCHEDULE & WINDOWS FRAMING ELEVATION

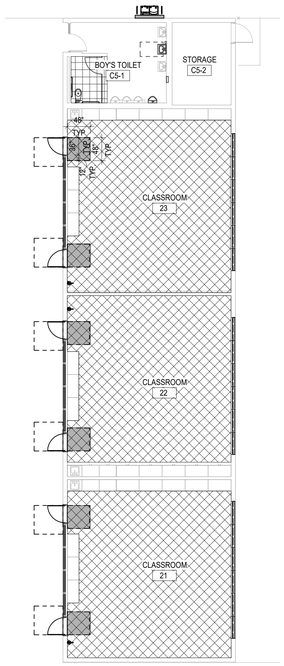
A9.01

0" 1"

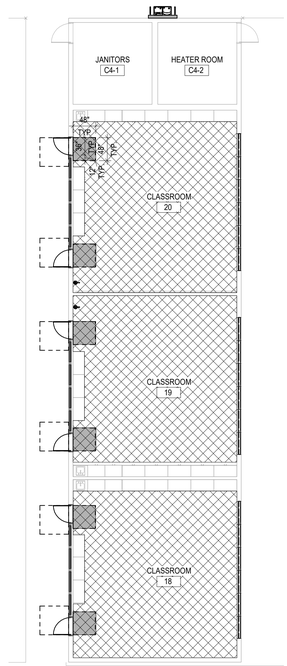
A10.01 - FINISH PLANS & SCHEDULE

FINISH SCHEDULE

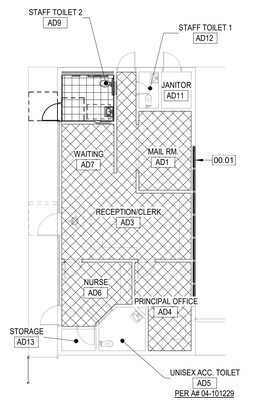
ROOM NUMBER	ROOM NAME	(E) FLOOR MATERIAL	FLOOR		BASE		NORTH WALL		EAST WALL		SOUTH WALL		WEST WALL		CEILING	
			MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH
3	CLASSROOM	CPT	VCT	VCT1	RB	RB1	(E) BRICK	P1	(E) BRICK	TS1	(E) BRICK	P1 & TS1	(E) GYP	P1 & TS1	ACP	ACP1
4	CLASSROOM	CPT	VCT	VCT1	RB	RB1	(E) BRICK	P1	(E) BRICK	TS1	(E) BRICK	P1 & TS1	(E) GYP	P1 & TS1	ACP	ACP1
5	CLASSROOM	CPT	VCT	VCT1	RB	RB1	(E) BRICK	P1	(E) GYP	P1 & TS1	(E) BRICK	P1 & TS1	(E) GYP	TS1	ACP	ACP1
6	CLASSROOM	CPT	VCT	VCT1	RB	RB1	(E) BRICK	P1	(E) GYP	TS1	(E) BRICK	P1 & TS1	(E) BRICK	P1 & TS1	ACP	ACP1
8	CLASSROOM	CPT	VCT	VCT1	RB	RB1	(E) BRICK	P1	(E) GYP	TS1	(E) BRICK	P1 & TS1	(E) GYP	P1 & TS1	ACP	ACP1
9	CLASSROOM	CPT	VCT	VCT1	RB	RB1	(E) BRICK	P1	(E) GYP	P1 & TS1	(E) BRICK	P1 & TS1	(E) GYP	TS1	ACP	ACP1
10	CLASSROOM	CPT	VCT	VCT1	RB	RB1	(E) BRICK	P1	(E) GYP	TS1	(E) BRICK	P1 & TS1	(E) BRICK	P1 & TS1	ACP	ACP1
11	LOUNGE	VCT	VCT	VCT1	RB	RB1	(E) BRICK	P1	(E) GYP	P1	(E) BRICK	P3	(E) GYP	P1	ACP	ACP1
11-1	XEROX/PRINTING	VCT	VCT	VCT1	RB	RB1	(E) GYP	P1	(E) BRICK	P1	(E) BRICK	P3	(E) GYP	P1	ACP	ACP1
11-2	VENDING MACHINES	VCT	VCT	VCT1	RB	RB1	(E) GYP	P1	(E) BRICK	P1	(E) GYP	P3	(E) GYP	P1	ACP	ACP1
11-3	STORAGE	VCT	VCT	VCT1	RB	RB1	(E) GYP	P1	(E) BRICK	P1	(E) GYP	P3	(E) GYP	P1	ACP	ACP1
11-4	M.S.D.S.	VCT	VCT	VCT1	RB	RB1	(E) BRICK	P1	(E) BRICK	P1	(E) GYP	P3	(E) GYP	P1	ACP	ACP1
12	CLASSROOM	CPT	VCT	VCT1	RB	RB1	(E) BRICK	P1	(E) GYP	P1	(E) BRICK	P1	(E) GYP	P1	ACP	ACP1
13	CLASSROOM	CPT	VCT	VCT1	RB	RB1	(E) BRICK	P1	(E) GYP	P1	(E) BRICK	P1	(E) GYP	P1	ACP	ACP1
14	CLASSROOM	CPT	VCT	VCT1	RB	RB1	(E) BRICK	P1	(E) GYP	P1	(E) BRICK	P1	(E) BRICK	P1	ACP	ACP1
15	CLASSROOM	CPT	VCT	VCT1	RB	RB1	(E) GYP	P1	(E) BRICK	P1	(E) BRICK	P1	(E) GYP	P1	ACP	ACP1
16	COMPUTER LAB	CPT	VCT	VCT1	RB	RB1	(E) BRICK	P1	(E) GYP	P1	(E) BRICK	P1	(E) GYP	P1	ACP	ACP1
17	LIBRARY	CPT	VCT	VCT1	RB	RB1	(E) BRICK	P1	(E) GYP	P1	(E) BRICK	P1	(E) GYP	P1	ACP	ACP1
18	CLASSROOM	CPT	VCT	VCT1	RB	RB1	(E) BRICK	P1	(E) BRICK	P1	(E) BRICK	P1	(E) GYP	P1	ACP	ACP1
19	CLASSROOM	CPT	VCT	VCT1	RB	RB1	(E) BRICK	P1	(E) GYP	P1	(E) BRICK	P1	(E) GYP	P1	ACP	ACP1
20	CLASSROOM	CPT	VCT	VCT1	RB	RB1	(E) BRICK	P1	(E) GYP	P1	(E) BRICK	P1	(E) GYP	P1	ACP	ACP1
21	CLASSROOM	CPT	VCT	VCT1	RB	RB1	(E) BRICK	P1	(E) BRICK	P1	(E) BRICK	P1	(E) GYP	P1	ACP	ACP1
22	CLASSROOM	CPT	VCT	VCT1	RB	RB1	(E) BRICK	P1	(E) GYP	P1	(E) BRICK	P1	(E) GYP	P1	ACP	ACP1
23	CLASSROOM	CPT	VCT	VCT1	RB	RB1	(E) BRICK	P1	(E) GYP	P1	(E) BRICK	P1	(E) GYP	P1	ACP	ACP1
AD1	MAIL RM	VCT	VCT	VCT1	RB	RB1	(E) BRICK	P1	(E) GYP	P1	(E) GYP	P4	(E) GYP	P1	ACP	ACP1
AD3	RECEPTION/CLERK	VCT	VCT	VCT1	RB	RB1	(E) GYP	P1	(E) GYP	P1	(E) GYP	P4	(E) GYP	CT1	ACP	ACP1
AD4	PRINCIPAL OFFICE	VCT	VCT	VCT1	RB	RB1	(E) BRICK	P1	(E) BRICK	P1	(E) GYP	P4	(E) GYP	P1	ACP	ACP1
AD5	UNISEX ACC. TOILET	CT	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	ACP	ACP1
AD6	NURSE	VCT	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	ACP	ACP1
AD7	WAITING	VCT	VCT	VCT1	RB	RB1	(E) GYP	P1	-	-	(E) BRICK	P4	(E) &(N) GYP	P1	ACP	ACP1
AD12	STAFF TOILET 1															
C3-1	GIRL'S TOILET	CT	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	GYP	P1
C5-1	BOY'S TOILET	CT	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	GYP	P1
CK-1	STORAGE	VCT	(E)	(E)	RB	RB	GYP	P1	(E) GYP	P1	(E)	(E)	(E) GYP	P1	GYP	P1
CK-2	KG TOILET	CT	CT	CT	CT	CT	CT	CT	CT	CT	CT	CT	CT	CT	GYP	P1
CK-3	KG TOILET	CT	CT	CT	CT	CT	CT	CT	CT	CT	CT	CT	CT	CT	GYP	P1
K-1	KINDERGARTEN	CPT/VCT	VCT	VCT1	RB	RB1	(E) BRICK	P1	(E) GYP	P1	(E) BRICK	P2	(E) BRICK	P1	ACP	ACP1
K-2	KINDERGARTEN	CPT/VCT	VCT	VCT1	RB	RB1	(E) BRICK	P1	(E) GYP	P1	(E) BRICK	P2	(E) GYP	P1	ACP	ACP1



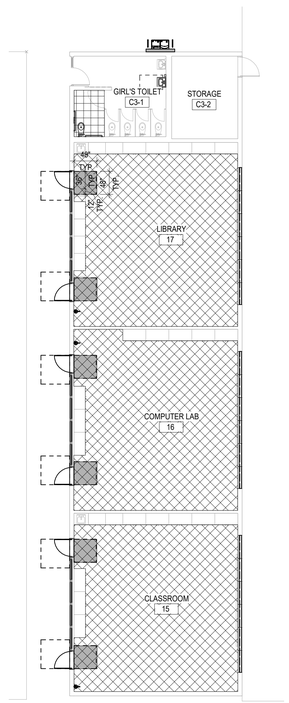
22 FINISH FLOOR PLAN - BUILDING C5
3/32" = 1'-0"



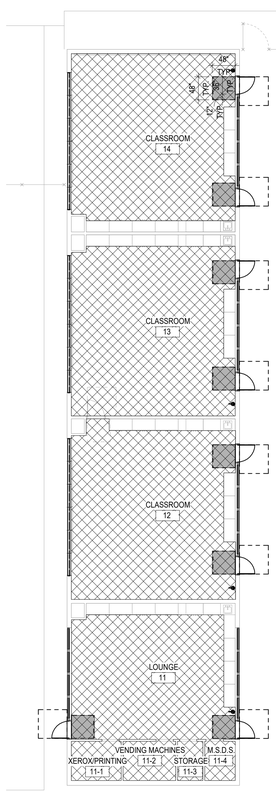
21 FINISH FLOOR PLAN - BUILDING C4
3/32" = 1'-0"



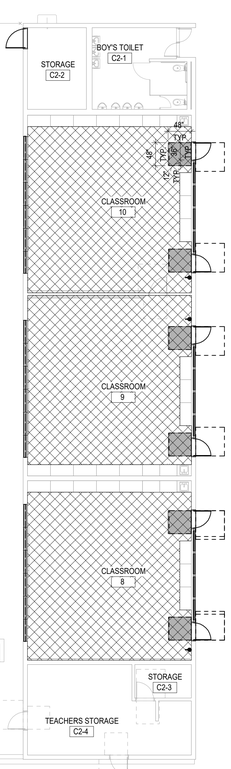
19 FINISH FLOOR PLAN - ADMIN BLDG
3/32" = 1'-0"



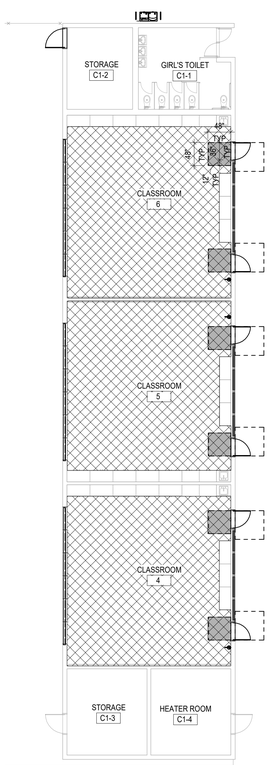
6 FINISH FLOOR PLAN - BUILDING C3
3/32" = 1'-0"



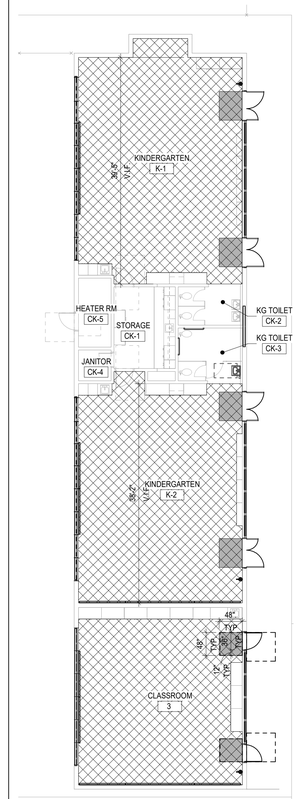
5 FINISH FLOOR PLAN - BUILDING C6
3/32" = 1'-0"



4 FINISH FLOOR PLAN - BUILDING C2
3/32" = 1'-0"



3 FINISH FLOOR PLAN - BUILDING C1
3/32" = 1'-0"



2 FINISH FLOOR PLAN - BUILDING CK
3/32" = 1'-0"

FINISH FLOOR MATERIALS LEGEND

VCT-1, VINYL COMPOSITION TILE
RE: FINISH SCHEDULE

CT-1 CERAMIC TILE FLOORING
RE: FINISH SCHEDULE

WALK-OFF MAT,
TRANSITION FLUSH WITH ADJACENT VCT
RE: FLOOR FINISH PLAN
48" DEPTH, 12" EXTEND ON PUSH SIDE

GENERAL FINISH LEGEND NOTES

1. ALL FINISH MATERIALS SHALL MEET THE FLAME SPREAD RATINGS PER THE BUILDING CODE.
2. REFER TO INTERIOR ELEVATIONS FOR SPECIFIC MATERIAL LOCATIONS.
3. PAINT ALL EXPOSED STRUCT. MEMBERS, STRUCT. DECK, DUCTWORK, DIFFUSERS, PIPING, CONDUIT, EQUIP. HOUSINGS, LIGHT FIXTURE HOUSINGS, CABLE SUPPORTS, CABLE TRAYS, EQUIP. SUPPORTS, HANGERS, ETC. TO MATCH ADJACENT SURFACES.
4. PAINT ALL NON-FACTORY FINISHED EXPOSED METAL.
5. REFER TO TYPICAL FLOORING TRANSITION DETAILS FOR FLOORING MATERIAL TRANSITIONS.
6. ALL FLOORING TRANSITIONS AT DOORS SHALL BE LOCATED UNDER THE DOOR IN THE CLOSED POSITION, U.N.O.
7. PROTECT ALL FINISHED FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.
8. PROVIDE AND INSTALL BULLNOSE TRIM AT ALL TRANSITIONS FROM CERAMIC WALL TILE TO OTHER MATERIAL U.N.O.
9. REFER TO REFLECTED CEILING PLANS FOR CEILING HEIGHTS.
10. ALL ELECTRICAL DEVICE COVERS ARE TO BE WHITE U.N.O.
11. ALL CARPET PATTERNS TO RUN PARALLEL TO CORRIDOR, U.N.O.
12. PAINT ALL HOLLOW METAL DOOR FRAMES TO MATCH ADJACENT WALL COLOR U.N.O.
13. REMOVE EXISTING PAINT AT EXISTING BRICK WALL. PREPARE BRICK WALL SMOOTH TO RECEIVE NEW PAINT FINISH. WHERE OCCURS.
14. RE-PAINT ALL EXISTING CASEWORK (EXCLUDE PLAMISTONE COUNTERTOPS).
15. PROVIDE APPROPRIATE PREPARATION, CLEANING AND BASE MATERIAL TO EXISTING INTERIOR SURFACES TO RECEIVE NEW FINISHES PER FINISH SPECS.
16. PROVIDE APPROPRIATE PREPARATION, CLEANING AND BASE MATERIALTO EXISTING BRICK WALL BEFORE RECEIVING NEW FINISH MATERIAL. PER FINISH SPECIFICATION.
17. PROVIDE CONSISTENT FLAT SURFACE USING CEMENT FLOAT AND APPROPRIATE BASE MATERIAL AT EXISTING BRICK WALL TO RECEIVE NEW TILE FINISH, PER FINISH SPECIFICATIONS.

MATERIAL FINISH ABBREVIATIONS

ACP1	2'X2' ACOUSTICAL CEILING PANEL , SEE SPECIFICATIONS
CPT1	CARPET TYPE 1, SEE SPECIFICATIONS
CT1	CERAMIC TILE 1, SEE SPECIFICATIONS
CTB1	CERAMIC TILE BASE 1, SEE SPECIFICATIONS
VCT1	VINYL COMPOSITE TILE 1, SEE SPECIFICATIONS
P1	PAINT TO BE SELECTED BY OWNER, SEE SPECIFICATIONS
RB1	RUBBER BASE , SEE SPECIFICATIONS
(E)	(E) FINISH TO REMAIN
MF	MANUFACTURERS FINISH, SEE SPECIFICATIONS

MATERIAL ABBREVIATIONS

ACP	ACOUSTIC CEILING PANEL
CONC	CONCRETE
CPT	CARPET
CT	CERAMIC TILE
CTB	CERAMIC TILE BASE
GUT	GLUE UP TILE
GYP	GYPSUM BOARD
P	PAINT
RB	RUBBER BASE
VCT	VINYL COMPOSITE TILE
(E)	(E) FINISH TO REMAIN

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FINLEY ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
13521 Edwards St.
Westminster, CA 92683

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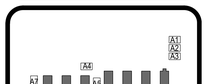
DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43

WESTMINSTER SCHOOL DISTRICT



Consultant

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REN: 10-31-2023
STATE OF CALIFORNIA

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
05-16-2023	220307

REVISIONS

No.	Description	Date

DSA SUBMITTAL

FINISH PLANS & SCHEDULE

A10.01

GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH TITLE 24 CALIFORNIA BUILDING CODE, 2019 EDITION.
2. ALL DRAWINGS AND SPECIFICATIONS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE EOR, THE ARCHITECT AND THE OWNER REPRESENTATIVE. PRIOR TO THE START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE AND AT NO EXPENSE TO THE OWNER.
3. ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS. IF CLARIFICATION IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE EOR AND THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
4. ALL DIMENSIONS AND THE SITE CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE JOB SITE PRIOR TO BID SUBMITTAL, START OF SHOP DRAWINGS, START OF CONSTRUCTION, AND/OR FABRICATION OF MATERIALS. IF DISCREPANCIES ARE ENCOUNTERED, OR CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS, THE OWNER SHALL BE NOTIFIED FOR CLARIFICATION.
5. CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF ADJACENT EXISTING SURFACES AND AREAS WHICH MAY BE DAMAGED AS A RESULT OF NEW WORK.
6. DO NOT SCALE DRAWINGS. PRINTED DIMENSIONS HAVE PRECEDENCE OVER SCALED DRAWINGS AND LARGE SCALE OVER SMALL.
7. TYPICAL DETAILS SHALL APPLY IN GENERAL CONSTRUCTION UNLESS SPECIFICALLY DETAILED. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK & PER TYP DETAILS.
8. THE CONTRACT DOCUMENTS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THESE DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND SAFETY OF WORKMEN DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE CITY OR STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS AND DOES NOT IN ANY WAY RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES FOR THE ABOVE.
9. FOR TRENCHES OR EXCAVATIONS (5) FIVE FEET OR MORE IN DEPTH INTO WHICH A PERSON IS REQUIRED TO DESCEND, THE CONTRACTOR IS TO OBTAIN THE NECESSARY PERMIT FROM THE STATE OF CALIFORNIA, DIVISION OF INDUSTRIAL SAFETY, PRIOR TO THE ISSUANCE OF A BUILDING PERMIT.
10. NO HOLES, NOTCHES, BLOCKOUTS, ETC. ARE ALLOWED IN STRUCTURAL ELEMENTS UNLESS DETAILED ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER AND OWNER.
11. ALL INFORMATION SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE FROM PLANS SUPPLIED BY THE OWNER, BUT WITHOUT GUARANTEE OF ACCURACY. WHERE ACTUAL CONDITIONS CONFLICT WITH THE DRAWINGS, THEY SHALL BE REPORTED TO THE UNIVERSITY REPRESENTATIVE OR ENGINEER SO THAT PROPER CLARIFICATION MAY BE MADE. MODIFICATION OF DETAILS OF CONSTRUCTION SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF STRUCTURAL ENGINEER AND OWNER.
12. IN CASE OF DISCREPANCIES BETWEEN NOTES ON THIS SHEET & PROJECT SPECIFICATIONS, THE PROVIDED NOTES SHALL TAKE PRECEDENCE OVER SPECS.
13. CUTTING, BORING, SAW CUTTING OR DRILLING INTO (E) OR (NEW) STRUCTURAL ELEMENTS SHALL BE SPECIFICALLY DETAILED OR OTHERWISE APPROVED BY STRUCTURAL. ENGINEER OF RECORD.

QUALITY ASSURANCE PROGRAM

A) STRUCTURAL TESTS AND SPECIAL INSPECTION PROGRAM.

PER SECTION 4-335 OF CALIFORNIA ADMINISTRATION CODE, THE ARCHITECT OR REGISTERED ENGINEER IN GENERAL RESPONSIBLE CHARGE OF THE PROJECT, OR WITHIN THEIR DELEGATED PORTION OF THE WORK, SHALL ESTABLISH THE EXTENT OF THE STRUCTURAL TESTS AND SPECIAL INSPECTION PROGRAM CONSISTENT WITH THE NEEDS OF THE PROJECT, AND SIGN DSA-103.

THE ARCHITECT OR REGISTERED ENGINEER SHALL RECEIVE VERIFIED REPORTS FROM THE PROJECT INSPECTOR, SPECIAL INSPECTORS, TESTING FACILITY, THE GEOTECHNICAL ENGINEER, CONTRACTORS AND THE OTHER ARCHITECTS AND ENGINEERS ARE SUBMITTED AS REQUIRED. THE RESPONSIBLE PARTY SHALL NOTIFY DSA AS TO THE DISPOSITION OF MATERIALS NOTED ON LABORATORY TESTING, AND/ OR SPECIAL INSPECTION, REPORTS AS NOT CONFORMING TO THE DSA APPROVED DOCUMENTS.

B) STRUCTURAL OBSERVATION

PERIODIC STRUCTURAL OBSERVATION SHALL BE CONDUCTED, PER SECTION 1710 OF THE CALIFORNIA BUILDING CODE AND SECTION 4-341(F) OF THE CALIFORNIA ADMINISTRATION CODE, TO ASSURE CONFORMANCE WITH THE DESIGN INTENT AND THE APPROVED PLANS AND SPECIFICATIONS. STRUCTURAL OBSERVATION DOES NOT WAIVE THE REQUIREMENT ANS/OR RESPONSIBILITY FOR THE INSPECTION BY IOR.

A REGISTERED PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OF THE PROJECT, INCLUDING LICENSED ARCHITECT OR STRUCTURAL ENGINEER, SHALL OBSERVE HIS/HER PORTION OF WORK DURING THE CONSTRUCTION OF THE PROJECT.

OBSERVATION SHOULD INCLUDE VISITS TO THE PROJECT SITE BY THE ARCHITECT AND/OR ENGINEER OR THEIR QUALIFIED REPRESENTATIVES IN COORDINATION WITH THE DISTRICT AND DSA. PRIOR NOTIFICATION SHALL BE MADE TO REQUEST THE REQUIRED OBSERVATIONS. ELINQUENT NOTIFICATION MAY REQUIRE DEMOLITION OF COVERING MATERIAL TO FACILITATE OBSERVATION.

STRUCTURAL OBSERVATIONS MAY CONSIST OF VISUAL OBSERVATION OF MAJOR STRUCTURAL MEMBERS, AND THEIR IMMEDIATE CONNECTIONS, AT SIGNIFICANT CONSTRUCTION STAGES. THE FREQUENCY OF SUCH OBSERVATION SHALL BE COORDINATED WITH THE DISTRICT ENGINEER OR ASSIGNED IOR PER SECTION 4-336.

AT THE COMPLETION OF THE PROJECT, A FINAL VERIFIED REPORT (DSA-6) MUST BE SUBMITTED WHICH SHOWS THAT THE STRUCTURAL SYSTEM IS COMPLETE AND GENERALLY CONFORMS TO THE APPROVED PLANS AND SPECIFICATIONS.

DEMOLITION

1. REFER TO MECH. SHEETS FOR DEMOLITION NOTES. SEE DEMOLITION PLANS ON SHEET MD2 SERIES
2. ALL (E) UTILITIES, DUCTS, CONDUITS, PIPES, SIGNS, JOINTS, ELEC PANELS & BOXES, DOOR, WINDOW, CHAIN FRAME CEILINGS & OTHER ARCH'L TREATMENTS SHALL BE REMOVED TEMPORARILY AS NEEDED & REINSTALLED TO IT'S ORIGINAL CONDITION & IN AGREEMENT WITH CODE STANDARDS. SUPPORTS & BRACES FOR DUCT WORK SHALL BE IN ACCORDANCE WITH SMACNA GUIDELINES.
3. DEMOLITION WORK SHALL BE FULLY COORDINATED WITH THE DISTRICT & DSA 'S REPRESENTATIVES FOR SEQUENCE AND TIME FRAME.
4. CONTRACTOR TO PROVIDE TEMP. SHORING, AS REQUIRED.
5. UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBERS SHALL BE CUT, DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DISTRICT ENGINEER FROM THE DIVISION OF THE STATE ARCHITECT.

CONCRETE AND REINFORCEMENT

1. ALL CEMENT SHALL CONFORM AT ASTM C-150, TYPE II OR V
2. FINE AND COARSE AGGREGATE SHALL CONFORM TO ASTM C-33.
3. AGGREGATE GRADATION FOR CONCRETE SHALL CONFORM TO ASTM C-33 AND CBC 2019. AGGREGATE FOR ELEMENT WITH 4 HOURS RATING SHALL BE SILICEOUS.
4. CONCRETE SHALL HAVE THE FOLLOWING MINIMUM 28 DAY STRENGTH:
   - ALL STRUCTURAL CONCRETE SHALL HAVE A MINIMUM STRENGTH OF 3000 PSI, UNLESS NOTED OTHERWISE.
   - CAST IN DRILLED-HOLE PILES - 4000 PSI.
   - CONCRETE SLAB ON GRADE/HOUSEKEEPING PAD - 3000 PSI.
   - EXTERIOR CONCRETE WALKS, CURBS, ETC. AND MISC. CONCRETE - 2500 PSI STONE.
5. LIGHTWEIGHT CONCRETE . (NOT APPLICABLE)
6. CONCRETE DESIGN MIXES SHALL CONFORM TO THE STANDARD SPECIFICATIONS. MIX DESIGNS SHALL BE SIGNED BY A CALIFORNIA LICENSED ENGINEER & SUBMITTED FOR REVIEW & APPROVAL. SUPPORTING DATA SHALL BE PROVIDED PER CBC 1903A. THE TEST DATA SHALL BE REPORTED BY AN INDEPENDENT TESTING AGENCY.
7. PLACING OF ALL CONCRETE SHALL BE INSPECTED BY THE JOB INSPECTOR TO VERIFY THAT REINFORCING STEEL IS SECURELY SUPPORTED IN PLACE DURING THE POUR. CONTRACTOR TO PROVIDE NECESSARY MEASURE TO PROTECT REINFORCING AND TENDONS DURING PLACEMENT USING TIES AND SUPPORTS. USE TREMY FOR PLACEMENT OF CONCRETE FOR POURS DEEPER THAN 6'-0". USE OF BUCKET OR DROPPING IS NOT ALLOWED TO AVOID SEGREGATION.
8. LOCATION OF CONSTRUCTION JOINTS OR POUR JOINTS SHALL BE AS SHOWN ON PLANS OR AS APPROVED BY THE ENGINEER OR THE ARCHITECT PRIOR TO POURING CONCRETE. SEE NOTE 19 BELOW.
9. ANCHOR BOLTS, DOWELS, REINFORCING STEEL, INSERTS, ETC., SHALL BE SECURELY TIED IN PLACE PRIOR TO POURING CONCRETE. CONCRETE BLOCKS ONLY SHALL BE USED TO SUPPORT REINFORCING OFF GRADE.
10. CONCRETE SLABS SHALL BE CURED BY KEEPING CONTINUOUSLY WET FOR 7 DAYS. FORMS FOR CONCRETE WALLS SHALL BE LEFT IN PLACE FOR 7 DAYS OR THEY MAY BE STRIPPED AFTER 3 DAYS AND THEN COVERED WITH BURLAP WHICH SHALL BE KEPT WET FOR AN ADDITIONAL 7 DAYS. IN LIEU OF BURLAP, CURING COMPOUNDS MAY BE USED IF APPROVED BY THE STRUCTURAL ENGINEER. FORMS FOR CONCRETE COLUMNS SHALL BE LEFT IN PLACE FOR 3 DAYS. IF STRIPPED EARLY, THEN SHALL BE COVERED FOR ANOTHER 3 DAYS OR BE PROTECTED BY CURING COMPOUNDS. IF CONTRACTOR SELECTS TO DEVIATE FROM THESE INSTRUCTIONS, ALL CRACKS AND OTHER DEFECTS SHALL BE AT CONTRACTORS EXPENSE.
11. NOTIFY THE STRUCTURAL ENGINEER 48 HOURS MINIMUM PRIOR TO ALL POURS.
12. PROVIDE 3/4" CHAMFER ON ALL EXPOSED CONCRETE CORNERS.
13. MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL COMPLY WITH CBC SECTION TABLE 1808A.8.2
14. ALL CONCRETE SHALL BE VIBRATED IN PLACE DURING PLACING OF CONCRETE.
15. THE STRUCTURAL STEEL AND STEEL FORM WILL DEFLECT WHILE CONCRETE IS BEING PLACED ON IT. THIS WILL RESULT IN THE NEED TO ADJUST THE SCREEDS AFTER THE CONCRETE HAS BEEN PLACED TO PRODUCE A LEVEL CONCRETE SURFACE. ALSO, THERE WILL BE ADDITIONAL CONCRETE REQUIRED, WHICH IS TO BE ANTICIPATED, AND NO REQUEST FOR EXTRA COST WILL BE CONSIDERED.
16. NO STAKES, STEEL OR WOOD, SHALL BE PERMITTED IN ANY CONCRETE POUR. SUSPEND FORMS FROM ABOVE GRADE.
17. DRYPACK SHALL BE 1:3-1/2 PORTLAND CEMENT TO SAND WITH A MINIMUM 28 DAY STRENGTH OF 4500 PSI. OR SET GROUT BY AN APPROVED EOR.
18. NON-SHRINK GROUT SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 7000 PSI.
19. CONSTRUCTION JOINTS: CONSTRUCTION JOINTS SHALL HAVE ENTIRE SURFACE REMOVED TO MIN ~4" TO EXPOSE CLEAN, SOLIDLY EMBEDDED AGGREGATE. PER TYP. DETAILS PROVIDED IN THIS SET, CONSTRUCTION JOINTS SHALL BE PROVIDED TO LIMIT SHRINKAGE CRACKS. A MAX DISTANCE OF 50 FEET SHALL BE CONSIDERED IF NO CONSTRUCTION JOINTS IS CALLED ON PLANS. THE CONTRACTOR SHALL OBTAIN THE ENGINEER'S APPROVAL OF CONSTRUCTION & CONTROL JOINT LOCATION IN SLABS, WALLS AND BEAMS.
20. TEMPERATURE AND SHRINKAGE REINFORCEMENT: SHALL HAVE A LAP OF THIRTY (30) BAR DIAMETERS, BUT NOT LESS THAN 18 IN. AND THE SPLICES IN ADJACENT BARS SHALL BE NOT LESS THAN FIVE (5) FEET APART.
21. REBAR GRADES: **ALL REINFORCING STEEL SHALL BE NEW STOCK DEFORMED BARS CONFORMING TO ASTM A615 AS FOLLOWS:**
   - ALL SIZES NOT SUBJECT TO WELDING.......................................GRADE 60.

   ALL REINFORCING BARS TO BE WELDED SHOULD CONFORM TO ASTM A706.
22. TYP. REBAR COVER: MINIMUM REBAR COVER FOR REINFORCED CONCRETE SHALL BE AS SHOWN IN THIS TABLE:
23. MAX W/C RATIO = 0.45

EXPOSURE CONDITION	COVER	TOLERANCE (-)
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:	3"	3/8 INCH
EXPOSED TO EARTH OR WEATHER:		
NO. 5 AND SMALLER BARS	1-1/2"	1/4 INCH
NO. 6 AND LARGER BARS	2"	1/4 INCH
NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND:		
ROOF SLAB	1"	1/8 INCH
STRUCTURAL SLABS & WALLS	1"	1/8 INCH
BEAMS AND COLUMNS (PRIMARY REINFORCEMENT, TIES, STIRRUPS & SPIRALS)	1-1/2"	1/4 INCH
SLABS ON GRADE	1-1/2"	1/4 INCH

NON-SHRINK GROUT

"NON-SHRINK GROUT" SHALL BE DEFINED AS A HIGH-STRENGTH MORTAR OR GROUT WHICH DOES NOT SHRINK IN THE PLASTIC STATE, IS DIMENSIONALLY STABLE IN THE HARDENED STATE, AND BONDS PERMANENTLY TO CLEAN METAL SURFACES AND CONCRETE SUBSTRATE.

DRY PACK OR NON-SHRINK GROUT SHALL CONFORM TO THE ASTM C1107, SPECIFICATION FOR PACKAGED DRY, HYDRAULIC-CEMENT GROUT (NON-SHRINKABLE). NO SHRINKAGE BEFORE HARDENING (0.00 SHRINKAGE WHEN TESTED IN ACCORDANCE WITH ASTM C827), IS ALLOWED

COMPRESSIVE STRENGTH, SHALL REACH THE FOLLOWING COMPRESSIVE STRENGTH

a. AT ONE DAY: 1000 PSI
b. AT THREE DAYS: 2500 PSI
c. AT SEVEN DAYS: 4000 PSI
d. AT 28 DAYS: 7000 PSI

A MANUFACTURER'S PRODUCT DATA SHALL BE SUBMITTED PRIOR TO THE INSTALLATION, SHOWING THE MATERIAL MEET SPECIFIED SHRINKAGE AND COMPRESSIVE STRENGTH REQUIREMENTS, ABOVE.

SHOP DRAWINGS:

1. SHOP DRAWINGS ARE AN AID FOR FIELD PLACEMENT, AND ARE SUPERSEDED BY THE STRUCTURAL DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO MAKE CERTAIN THAT ALL CONSTRUCTION IS IN FULL AGREEMENT WITH THE LATEST STRUCTURAL DRAWINGS.
2. SHOP DRAWINGS SHALL BE SUBMITTED BY CONTRACTOR TO ENGINEER OF RECORD (EOR) FOR REVIEW AND APPROVAL, AND IF REUIRED TO THE BUILDING OFFICIALS FOR THEIR REVIEW AND APPROVAL, ALSO SEE SUBMITTALS AND DEFERRED APPROVAL.
3. A SET OF APPROVED SHOP DRAWINGS SHALL BE MAINTAINED @ THE JOB SITE & PRESENTED TO THE INSPECTOR PRIOR TO PLACEMENT OF THE REINFORCEMENT.

STRUCTURAL STEEL AND MISC. IRON

1. WELDING SHALL BE DONE IN CONFORMANCE WITH AWS-D1.1 & OTHER APPLICABLE CODES & STANDARDS USE ELECTRIC SHIELDED ARC PROCESS USING E-70XX ELECTRODES. ALL WELDS SHALL BE UNIFORM IN SIZE AND APPEARANCE, AND FREE OF PINHOLES, POROSITY, UNDERCUTTING, OR OTHER DEFECTS. ALL BUTT WELDS SHALL BE FULL PENETRATION.
2. WELDS SHALL BE DONE IN THE SHOP OF AN ICC OR ASCE APPROVED FABRICATOR UNLESS OTHERWISE NOTED ON PLANS. ALL FIELD WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS APPROVED BY THE BUILDING OFFICIAL.
3. CONTINUOUS INSPECTION BY AN APPROVED DEPUTY INSPECTOR IS REQUIRED FOR ALL ON SITE WELDING, U.N.O.
4. STRUCTURAL STEEL NOT ENCASED IN CONCRETE OR MASONRY SHALL BE SHOP PAINTED AS SPECIFIED. ANY ABRASIONS SHALL BE TOUCHED UP AFTER ERECTION.
5. FABRICATOR SHALL SUBMIT SHOP DRAWINGS TO STRUCTURAL ENGINEER FOR REVIEW PRIOR TO START OF FABRICATION. FABRICATION SHALL CONFORM TO A.I.S.C. SPECIFICATION.
6. ALL FULL PENETRATION WELDS IN FIELD AND SHOP SHALL BE ULTRASONICALLY TESTED AND APPROVED.
7. CONTINUOUS INSPECTION IS REQUIRED FOR ALL HIGH STRENGTH BOLTING CONNECTIONS.
8. SPLICE MEMBERS ONLY WHERE INDICATED.
9. BOLT HOLES IN STEEL SHALL BE STANDARD HOLES, 1/16 INCH LARGER IN DIAMETER THAN NORMAL SIZE OF BOLT USED, UNLESS NOTED OTHERWISE. BOLT HOLES IN BASE PLATES MAY BE OVERSIZED PER AISC TABLE 14-2 IF WASHERS ARE PROVIDED IN ACCORDANCE WITH THIS TABLE.
10. STRUCTURAL STEEL SHALL CONFORM TO ASTM DESIGNATION AS INDICATED BELOW UNLESS NOTED OTHERWISE:
   - ALL WIDE FLANGE AND WT SHAPES — A992, GRADE 50
   - STEEL ANGLES AND CHANNELS — A36 U.N.O.
   - BEAM SHEAR PLATES, STIFFENER PLATES, ALL OTHER PLATES — A572, GRADE 50 U.N.O.
   - MACHINE BOLTS USE ONLY WHERE INDICATED) — A307
   - THREADED AND SMOOTH ROD — F1554, GR50
   - NUTS FOR BOLTS AND MACHINE BOLTS — A563
   - HARDENED WASHERS — F436
   - UNHARDENED WASHERS — F844
   - PLAIN WASHERS — ANSI B18.22.1
   - STRUCTURAL TUBES — A-500, GRADE C
   - STRUCTURAL PIPES — A-53, TYPE E OR S, GRADE B
   - STAINLESS STEEL CABLE (DET 2/SD2) — TYPE 304, MIN Fu: 73.2 ksi
12. ALL EXPOSED STRUCTURAL STEEL MEMBERS SHALL BE HOT-DIP ZINC GALVANIZED

WOOD FRAMING

1. ALL SAWN LUMBER SHALL BE DOUGLAS FIR OR WESTERN LARCH, U.N.O.
2. GRADE MARKED BY A RECOGNIZED GRADING AGENCY (WWPA OR WCLIB). WOOD GRADES ARE TO BE AS FOLLOWS U.N.O.:
   - BEAMS____________________LSL OR PRL OR GLB UNO
   - HEADERS____________________SEE SCHEDULE (4/SD5.2)
   - POSTS AND TIMBERS____________________NO.1
   - PLATES____________________NO.2
   - STUDS @ NON-BEARING WALLS____________________NO.2
   - STUDS @ BEARING/SHEAR WALLS NO.2 U.N.O.___SEE SCHEDULE (8/SD5.2)
   - RAFTERS AND ROOF JOISTS____________________NO.2
   - FLOOR JOIST____________________NO.1
   - SILL PLATES PRESSURE TREATED FOR MOISTURE RESISTANCE (SEE NOTE #23.)____NO.1
   - TJI____________________PER PLAN OR EQ.
   - OPEN WEB TRUSSES____________________PER PLAN & APPROVED MANUF.
   - ROOF TRUSSES____________________PER PLAN & APPROVED MANUF.
3. WHERE WOOD IS IN CONTACT WITH CONCRETE OR MASONRY USE FOUNDATION REDWOOD OR DOUGLAS FIR PRESSURE TREATED FOR MOISTURE RESISTANCE. CORROSION RESISTANCE BOLTS ARE REQUIRED FOR "CHEMICALLY THREATED SILLS".
4. PLYWOOD SHALL BE DOUGLAS FIR CONFORMING TO U.S. PRODUCT STANDARDS PS 1-83, WITH EXTERIOR GLUE AND SHALL BE GRADE MARKED BY APA. PLYWOOD AT EXPOSED EAVES SHALL BE EXPOSURE I GRADE PLYWOOD. PLYWOOD SHALL BE STRUCTURAL- I FOR FLOOR DIAPHRAGMS & SHEAR WALLS. OSB PANELS MAY BE USED IF HAVE EQUIVALENT PROPERTIES.
5. U.N.O. ALL DAMAGED OR DETERIORATED LUMBER SHALL BE REPLACED WITH EQUAL SECTION AND EQUAL OR BETTER GRADE AS SPECIFIED ON THESE DRAWINGS.
6. ALL BOLTS FOR WOOD CONNECTIONS SHALL BE A307, GRADE A. WHERE WOOD IS BOLTED TO STEEL, USE A LOCK WASHER UNDER THE NUT ON THE STEEL SIDE.
7. ALL BOLT HEADS AND NUTS THAT BEAR AGAINST THE FACE OF WOOD MEMBERS SHALL BE PROVIDED WITH METAL SQUARE WASHERS AS INDICATED ON PLANS.
8. ALL STUD WALLS SHALL HAVE FIRE BLOCKING AT 5'-0" O.C. MAXIMUM, VERTICAL UNLESS ALLOWED BY CODE.
9. BLOCKING SHALL BE INSTALLED AT THE TOP OF ALL BEARING AND SHEAR WALLS.
10. PROVIDE DOUBLE FLOOR JOISTS UNDER PARALLEL PARTITIONS.
11. PROVIDE 2X3 CROSS-BRIDGING OR 2X SOLID BLOCKING AT A MINIMUM OF 8'-0" O.C. FOR FLOOR JOISTS (CONTACT METAL BRIDGING OR EQUAL MAY BE USED).
12. HOLES AND NOTCHES IN STRUCTURAL MEMBERS FOR PIPES AND CONDUIT SHALL COMPLY WITH THE BUILDING CODE & PROVIDED TYP. DETAILS.
13. ALL BOLT HOLES SHALL BE DRILLED A MIN. OF 1/32" TO A MAX. OF 1/16" LARGER IN DIAMETER THAN THE NOMINAL SIZE OF BOLT USED.
14. EACH SHEET OF PLYWOOD SHALL HAVE 2' MIN. SHEET DIMENSION UNLESS ALL EDGES OF THE UNDERSIZED SHEETS ARE SUPPORTED BY FRAMING MEMBERS OR BLOCKING.
15. THREADED PORTION OF LAG SCREWS SHALL BE TURNED NOT DRIVEN INTO THE PRE-DRILLED HOLE.
16. ALL NAILS SHALL BE COMMON WIRE NAILS U.N.O.
17. IF GUN NAILING IS USED, REDUCE THE SPECIFIED NAIL SPACING BY 20% UNLESS THE HEADS DO NOT PENETRATE INTO THE SHT'G..
18. ALL NAILS SHALL BE GALVANIZED WHERE EXPOSED TO WEATHER.
19. EXCEPT WHERE TOE NAIL IS REQUIRED, NAILS SHALL BE DRIVEN PERPENDICULAR. PRE-DRILL FOR ALL NAILS 20d OR LARGER.
20. TJI, PARALLAM, AND TIMBER STRANDS SHALL BE ICC APPROVED PER SPECIFICATIONS. ALSO SEE SPECIAL INSPECTION & SHOP DRAWING NOTES ON THIS SHEET.
21. USE SIMPSON OR OTHER EQUIVALENT ICC APPROVED HARDWARE FOR ALL CONNECTION PER PLAN NOTES AND SPECIFICATIONS.
22. ROOF TRUSSES SHALL BE DESIGNED & STAMPED BY MANUFACTURE'S ENGINEER. SHOP DRAWING SHALL BE PREPARED PER NOTES ON THIS SHEET.
23. FASTENERS AND ANCHOR BOLTS INSTALLED IN CHEMICALLY OR PRESSURE TREATED LUMBERS SHALL BE CORROSION RESISTANT USING HOT-DIPPED ZINC COATED GALVANIZED OR STAINLESS STEEL PER CBC SECTION 2304A.3
24. EDGE OF SHEATHING PLYWOOD PANELS SHALL BE BLOCKED OR T&G AS SPECIFIED ON PLANS.
25. PARTICLE PANELS (OSB) MAY BE USED IN LIEU OF PLYWOOD, IF IT IS PROVED TO BE EQUIVALENT TO CDX-STRUCT-I, AND MEETS UL-FIRE-RATED ASSEMBLY FOR THE FLOOR SYSTEM, AS SPECIFIED ON THE PROJECT REQUIREMENTS. PLYWOOD SHEATHING PANELS SHALL HAVE TONGUE & GROOVE EDGES FOR INTERLOCKING OR BE SUPPORTED BY 3X BLOCKING ALONG THE PANEL WITH SQUARE EDGES. PLACING DECK CLIPS FOR SUPPORT OF PANELS IS NOT ACCEPTABLE AS ALTERNATIVE SUPPORT METHODS ALONG FREE EDGES.

POST-INSTALLED ANCHOR BOLTS

ANCHOR BOLTS SHALL BE ONE OF THE FOLLOWING ACCEPTABLE PRODUCTS, OR AN EQUIVALENT. NO DRILLED-IN ANCHOR IS ALLOWED IN POST TENSIONED SLABS TO AVOID DAMAGING/CUTTING TENDONS & REINFORCEMENT, UNLESS THE LOCATION IS CLEARED BY NONDESTRUCTIVE TESTING OF UNDERGROUND PENETRATING RADAROR X-RAY. (PACHOMETER READING IS NOT ACCEPTABLE)

- EXPANSION-TYPE ANCHORS
  HILTI -TZ2 (ESR#4266) (FOR CONCRETE)
  HILTI -TZ2 (ESR#4561) (FOR MASONRY)
  (FOR INSTALLATION SEE TABLE A)
- EPOXY/ADHESIVE ANCHORS
  HILTI RESD500-V3 ADHESIVE SYSTEM, ESR#3814
  (FOR TEST FREQUENCY SEE NOTES BELOW AND FOR TESTING LOADS SEE TABLE B)
- SIMPSON HY270 EPOXY ANCHORS (ICC-ESR # 4143) FOR USE IN BRICK
- SCREW TYPE ANCHORS
  SIMPSON TITEN HD (ESR#1056) (FOR MASONRY)

1. EQUIVALENT PRODUCTS, WITH VALID & CURRENT ICC REPORTS WHICH ALLOW APPLICATION FOR SEISMIC LOADING, ARE ACCEPTABLE.
2. FOR MIN. EMBEDMENT AND OTHER INFO., REFER TO DETAILS.
3. FOR REPRESSION AND INSTALLATION, REFER TO MANUFACTURES' RECOMMENDATIONS & NOTE/TABLES BELOW

POST-INSTALLED EXPANSIVE ANCHOR BOLTS

TABLE A

SETTING INFORMATION	SYM.	UNITS	NOMINAL ANCHOR DIAMETER (IN.)													
			1/4	3/8			1/2				5/8			3/4		
NOMINAL BIT DIAMETER	d_0	IN	1/4	3/8			1/2				5/8			3/4		
EFFECTIVE MIN. EMBEDMENT	h_{ef}	IN	1½	1½	2	2½	1½	2	2½	3¼	2¾	3¼	4	3¼	3¾	4¾
NOMINAL EMBEDMENT	h_{nom}	IN	1¾	1⅞	2½	3	2	2½	3	3¾	3¼	3¾	4½	4	4½	5½
MIN. HOLE DEPTH	h_o	IN	2	2	2¾	3¼	2¼	2¾	3¼	4¼	3¾	4¼	4¾	4¼	4¾	5¾
INSTALLATION TORQUE C.S.	T_{inst}	FT-LB	4	30			50				40			110		
INSTALLATION TORQUE S.S.	T_{inst}	FT-LB	6	30			40				60			125		
FIXTURE HOLE DIAMTER	d_h	IN	5/16	7/16			9/16				11/16			13/16		

ADHESIVE ANCHOR BOLTS AND DOWELS:

1. MANUFACTURER'S FIELD REPRESENTATIVE SHALL PROVIDE INSTALLATION TRAINING FOR ALL PRODUCTS TO BE USED PRIOR TO COMMENCEMENT OF WORK; INSTALLATION.
2. INSTALLATION OF ADHESIVE ANCHORS IN HORIZONTAL TO VERTICAL ORIENTATION SHALL BE DONE BY A CERTIFIED ADHESIVE INSTALLER (AAI) AS CERTIFIED THROUGH ACI AND IN ACCORDANCE WITH THE CURRENT EDITION OF ACI 318.
3. EMBEDMENT DEPTH FOR ANCHORS AND DOWELS IS AS FOLLOWS, UNLESS OTHERWISE NOTED THE TESTING LABORATORY WILL PERFORM TENSION TESTS ON 25% OF ANCHORS AND DOWELS TO THE SPECIFIED TEST LOADS:

TABLE B

ROD DIA. OR BAR SIZE	EMBEDMENT	TEST LOAD	BASE MATERIAL
3/8"	4"	3,000#	CONCRETE
1/2"	5"	4,500#	CONCRETE
5/8"	6"	6,500#	CONCRETE
3/4"	7"	9,000#	CONCRETE
7/8"	9"	11,000#	CONCRETE
1"	11"	15,000#	CONCRETE
1-1/4"	14"	20,000#	CONCRETE
#3	5"	3,500#	CONCRETE
#4	6-1/2"	5,500#	CONCRETE
#5	8"	8,500#	CONCRETE
#6	10"	12,000#	CONCRETE
#7	12"	16,500#	CONCRETE
#8	14"	12,500#	CONCRETE
#9	16"	23,000#	CONCRETE
#10	19"	26,000#	CONCRETE

4. ANCHORS SHALL CONFIRM WITH ASTM A193 GRADE B7 THREADED RODS USING ASTM A 563 GRADE DH HEAVY HEX NUTS AND ASTM F436 WASHERS U.N.O..
5. REPLACE ANCHORS AND DOWELS THAT FAIL DURING TESTING AND RETEST. IF MORE THAN 10% OF THE TESTED DOWELS AND ANCHORS FAIL TO ACHIEVE THE SPECIFIED TEST LOAD, TEST 100% OF THE DOWELS AND ANCHORS INSTALLED IN THE LAST 2 DAYS OF ANCHOR INSTALLATION.
6. CENTER BAR IN THE HOLE AND WEDGE TIGHT WITH WOODEN WEDGES TO HOLD IT IN PLACE UNTIL THE ADHESIVE SETS.
7. IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON AND SHIFT THE HOLE LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM OF 2 ANCHOR DIAMETERS OR 1 INCH, WHICHEVER IS LARGER, OF SOUND CONCRETE BETWEEN THE DOWEL AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. IF THE ANCHOR OR DOWEL MAY NOT BE SHIFTED AS NOTED ABOVE. THE ENGINEER WILL DETERMINE A NEW LOCATION.
8. LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLES ATTACHED WITH ADHESIVE ANCHORS.
9. BOLTS SET IN EXPOSED SURFACE SHALL BE STAINLESS STEEL OR CORROSION RESISTANT
10. **TEST REQUIRMENT:**
   - **A. FREQUENCY** 50% OR ALTERNATE BOLTS IN A GROUP, INCLUDING AT LEAST ONE-HALF THE ANCHORS IN EACH GROUP, SHALL BE TESTED.
   - **B. TEST LOADS:** TEST LOADS SHALL BE TWICE THE MAXIMUM ALLOWABLE TENSION LOAD OR ONE AND A QUARTER (1¼) TIMES THE MAXIMUM DESIGN STRENGTH OF ANCHORS AS PROVIDED IN THE APPROVED ICC REPORT TENSION TEST LOAD NEED NOT EXCEED 80% OF THE NOMINAL YIELD STRENGTH OF THE ANCHOR ELEMENT.
11. TEST LOADS FOR EPOXY ANCHOR IN BRICK USE SIMPSON HY 270 UP TO 1/2" DIA. USE 450 LBS. FOR TESTING LOAD. TEST 1 OUT OF 5. IN CASE OF FAILURE TEST ANOTHER 20% , 2 OUT OF 5.

STRUCTURAL INDEX OF DRAWINGS

DESIGN LOADS:

LATITUDE: 33.764562° N
LONGITUDE: -118.017431° W

S_S = 1.429 S_{DS}= 1.144
S_1= 0.51 S_{D1} = N/A

SITE CLASS "DEFAULT"
SEISMIC DESIGN CATEGORY "D"
I_e =1.25 RISK CATEGORY: III

WIND CRITERIA:
BASIC WIND SPEED 101 MPH
EXPOSURE "C"
I_W = 1.00

STRUCTURAL ABBREVIATIONS

#	NUMBER OR POUNDS	FRMG.	FRAMING
CL	CENTER LINE	FLR.	FLOOR
BM.	BEAM	MTL.	METAL
BEAM	BEAM	PL.	PLATE
DET.	DETAIL	REINF.	REINFORCING
CLR.	CLEAR	PLCS.	PLACES
CONT.	CONTINUOUS	P.H.	PENTHOUSE
CONC.	CONCRETE	O.C.	ON CENTER
COL.	COLUMN	NO.	NUMBER
BTWN.	BETWEEN	PSF	POUNDS PGR SQ.FT.
BOTT.	BOTTOM	N.T.S.	NOT TO SCALE
B.O.F.	BOTTOM OF FOOTING	N.I.C.	NOT IN CONTRACT
ANCH.	ANCHOR	SIM.	SIMILAR
A.B.	ANCHOR BOLT	SIMP.	SIMPSON
DWG.	DRAWING	SEPN.	SEPARATION
DIM.	DIMENSION	SECT.	SECTION
-3"	SLAB DEPRESSION	S.W.S.	SHEAR WALL
EA.	EACH	SCHL.	SCHEDULE
FIN.	FINISH	S.	FOOTING STEP
EXP.	EXPANSION	MIN.	MINIMUM
EXIST.	EXISTING	STL.	STEEL
ELECTL.	ELECTRICAL	THK.	THICK
EL	ELEVATION	STIFF.	STIFFENER
E.W.	EACH WAY	T.O.W.	TOP OF WALL
E.F.	EACH FACE	T.O.S.	TOP OF STEEL
EXTR.	EXTERIOR	T.O.	TOP OF DRAWINGS
F.O.W.	FACE OF WALL	S.O.G.	SLAB ON GRADE
F.O.S.	FACE OF STUD	S.A.D.	SEE ARCHITECTURAL
F.O.C.	FACE OF CONCRETE	SYM.	SYMMETRICAL
FDN.	FOUNDATION	SUPPT.	SUPPORT
ELEV.	ELEVATOR OR ELEVATION	STD.	STANDARD
GA.	GAUGE	SQ.	SQUARE
JT.	JOINT	V.O.S.	VERIFY ON SITE
INTR.	INTERIOR	V.O.J.	VERIFY ON JOB
MFR.	MANUFACTURER	TYP.	TYPICAL
MECHL.	MECHANICAL	SPEC.	SPECIFICATION
MAX.	MAXIMUM	U.N.O.	UNLESS NOTED OTHERWISE
M.B.	MACHINE BOLT	DWL.	DOWEL
LT.	WT. LIGHTWEIGHT	W/	WITH
HORIZ.	HORIZONTAL	WT.	WEIGHT
H.S.B.	HIGH STRENGTH BOLT	WJ.	WALL JOINT
GR. BM.	GRADE BEAM	VERT.	VERTICAL
FRT.	FIRE RETARDANT		

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PROJECT ADDRESS:
13521 Edwards St.,
Westminster, CA 92683

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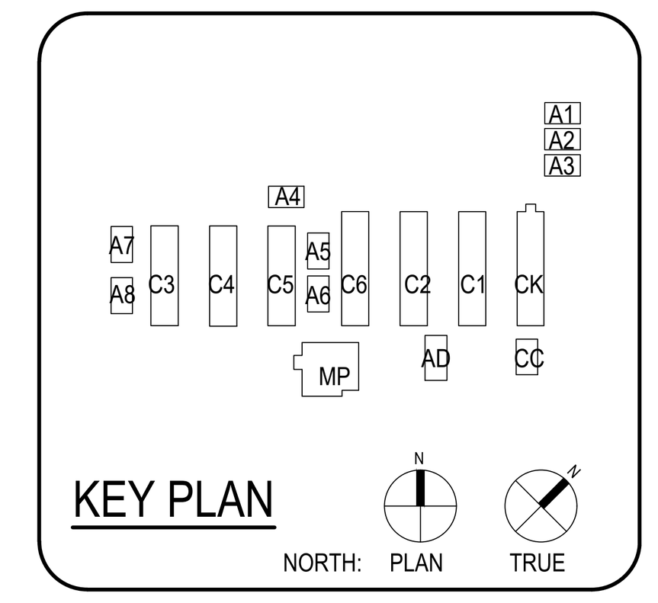

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STRUCTURAL ENGINEERING CONSULTANTS
23 CORPORATE PLAZA DR. SUITE 150
NEWPORT BEACH, CA 92660
NIC PROJECT NO.2224.07
REGISTERED PROFESSIONAL ENGINEER TOURAJ EIMANI No. S4302 Exp. 09/30/23 STRUCTURAL STATE OF CALIFORNIA

Architect

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WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
__-__-____	17391

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No.	Description	Date

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GENERAL NOTES

SN1

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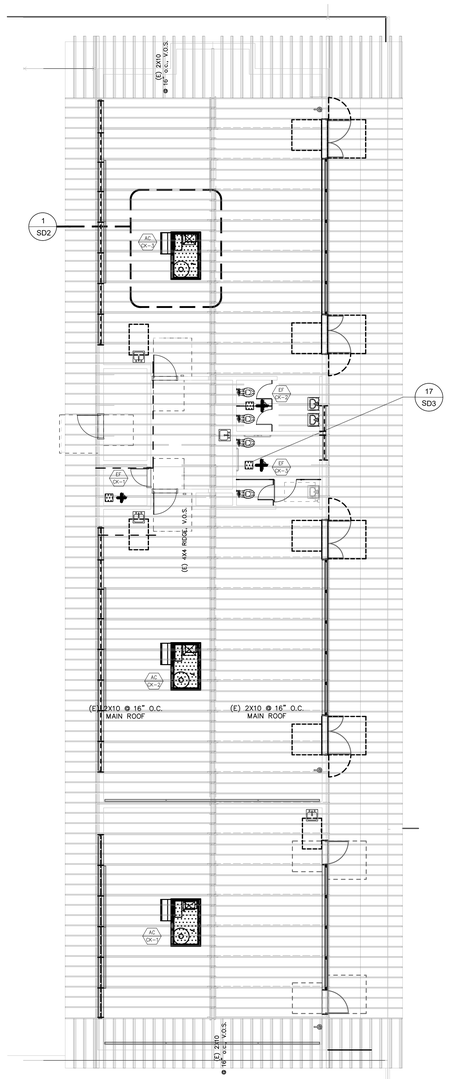
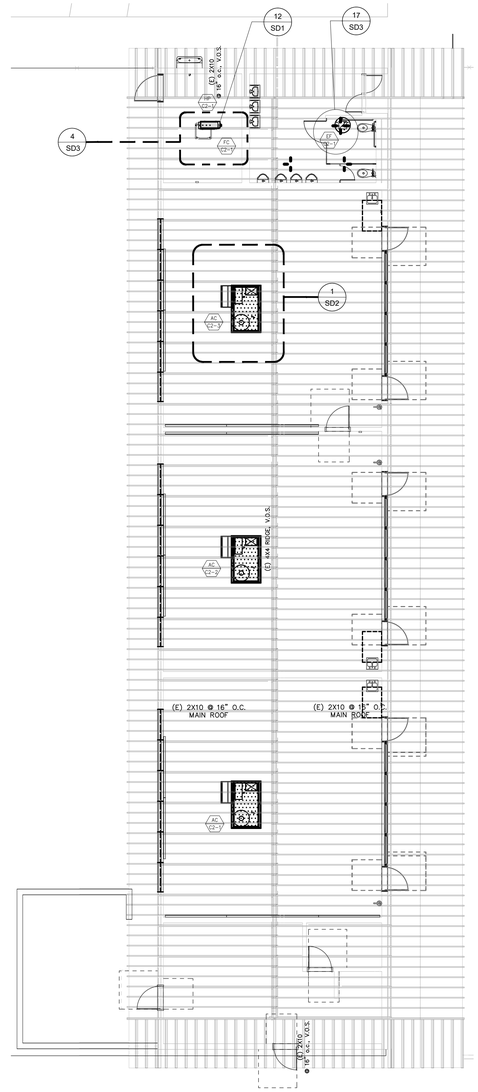
0" 1"

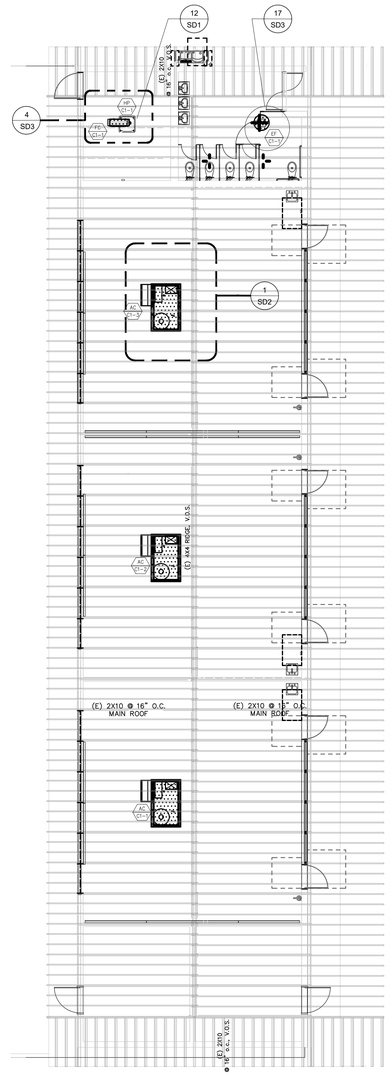


ROOF PLAN

FLOOR/ROOF PLAN - BLDG CK 1/8" = 1'-0" **3**



ROOF PLAN - BLDG C2 1/8" = 1'-0" **2**



ROOF PLAN - BLDG C1 1/8" = 1'-0" **1**

1. THE MAXIMUM OPERATIONAL WEIGHTS OF NEW UNITS ARE LISTED IN THE ANCHORAGE SCHEDULE IN DETAIL 4/SD2. EXACT SIZE AND WEIGHT OF UNITS MAY SLIGHTLY DIFFER FROM THE ONES SPECIFIED ON THESE DRAWINGS/SCHEDULE. SHOULD THE ACTUAL WEIGHT OF ANY UNITS EXCEED MORE THAN 10% OF THE LISTED WEIGHTS, IMMEDIATELY NOTIFY SE OR AND DSA DISTRICT ENGINEER FOR FURTHER INSTRUCTION.
2. THE OPERATABLE WEIGHT OF UNITS SHALL BE LESS OR EQUAL TO THE VALUES SHOWN, CONTRACTOR SHALL NOTIFY SEoR ABOUT HEAVIER UNITS. (MORE THAN 5% OF LISTED VALUES)
3. UNIT DIMENSION SHOWN HERE REPRESENT THE BEST ESTIMATE BASED ON THE AVAILABLE DATA.
4. MINOR ADJUSTMENTS IN UNIT POSITION WITH RESPECT TO EXISTING ROOF FRAMING MAY BE NECESSARY TO MISS CONFLICT, ALIGN NEW BLOCKINGS TO MATCH THE EXACT UNIT LOCATION/DIMENSIONS.
5. FINAL CONFIGURATION OF EACH UNIT, WITH RESPECT TO THE EXISTING ROOF FRAMING, SHALL BE FIELD VERIFY TO AVOID CONFLICT.
6. THE EXACT LOCATION AND SIZE OF MECH UNIT SHALL BE VERIFIED BY VENDOR/INSTALLER IN COORDINATION WITH THE LATEST MECH DRAWING/ CUT SHEETS.

A. PRIOR TO DEMOLITION WORK, SEE GENERAL NOTES ON SN1. FOR EXACT EXTENT OF DEMOLITION WORK REFER TO THE ARCH. DWG'S.

B. ALL EXISTING FRAMING MEMBERS THAT ARE BEING CUT/NOTCHED/TRIMMED SHALL BE PROPERLY SECURED BY SHORING.

C. SIZES SPACING LOCATIONS OF ALL EXISTING STRUCTURAL ELEMENTS SHALL BE FIELD VERIFIED & ANY DISCREPANCIES BE REPORTED TO SEoR.

D. IF EXISTING MEMBERS ARE SMALLER THAN WHAT IS SHOWN IN DRAWINGS AND CONSIDERED IN CALCULATIONS, PLEASE NOTICE SEOR FOR DETAIL OR FURTHER INFO

LEGEND

	(E) BEAM , V.O.S., PER PLAN SEE NOTE A-D
	(E) HEADER, V.O.S., PER PLAN, SEE NOTES A-D
	(E) ROOF FRAMING, PER PLAN, WHERE OCCURS, SEE NOTES A-D
	(E) STL POST, V.O.S.
	(N) MATCHING SISTER JOIST, PER PLAN FOR EXACT LOCATION, SEE DETAIL 1/SD2
	(N) CONC. SLAB-ON-GRADE
FT HP	(N) ROOFTOP UNIT, PER PLAN, SEE 1/SD2 SEE NOTE 1-7
FC	(N) SUSPENDED UNIT, PER PLAN, SEE 4/SD3 SEE NOTE 1-7
	(N) HVAC UNIT, PER MECH. PLANS SEE NOTE 1-7
	DUCT THROUGH ROOF PENETRATION PER MECH.

EQUIPMENT SCHEDULE (*)

UNIT DESCRIPTION	OVERALL WEIGHT(LBS)	DIMENSIONS	DETAIL REF.
	AC C-7 AC C-2 AC C-7 AC C-7 AC C-7 AC C-7 AC C-7		
HEAT PUMP (CURB)	595...640 347	74"L x 44"W x 41"H	FOR DETAL SEE SHEET SD2
	FC C-7 FT C-7		
FAN COIL	40		FOR DETAL SEE SHEET 4/SD3
	FT C-7 FT C-7 FT C-7 FT C-7		
EXHAUST FAN	15...75		FOR DETAL SEE SHEET 17/SD3
	HP C-7 HP C-7		
HEAT PUMP	75		FOR DETAL SEE SHEET 12/SD1

(*) SUBJECT TO CHANGE REFER TO LATEST MECHANICAL PACKAGE. SEE NOTES 1-7

(+) AC UNIT WEIGHT INCLUDES RTU SELF WEIGHT AND WEIGHT OF MECH. CURB

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DATE: 08/11/2023

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FINLEY ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS: 13521 Edwards St. Westminster, CA 92683

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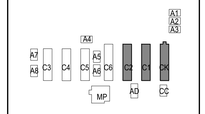

KEY PLAN NORTH: PLAN TRUE

Consultant

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REGISTERED PROFESSIONAL ENGINEER OMAR EMAM No. S4302 Exp. 09/30/23 STRUCTURAL STATE OF CALIFORNIA

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ROOF PLANS - BLDG C1, C2 & CK

S1

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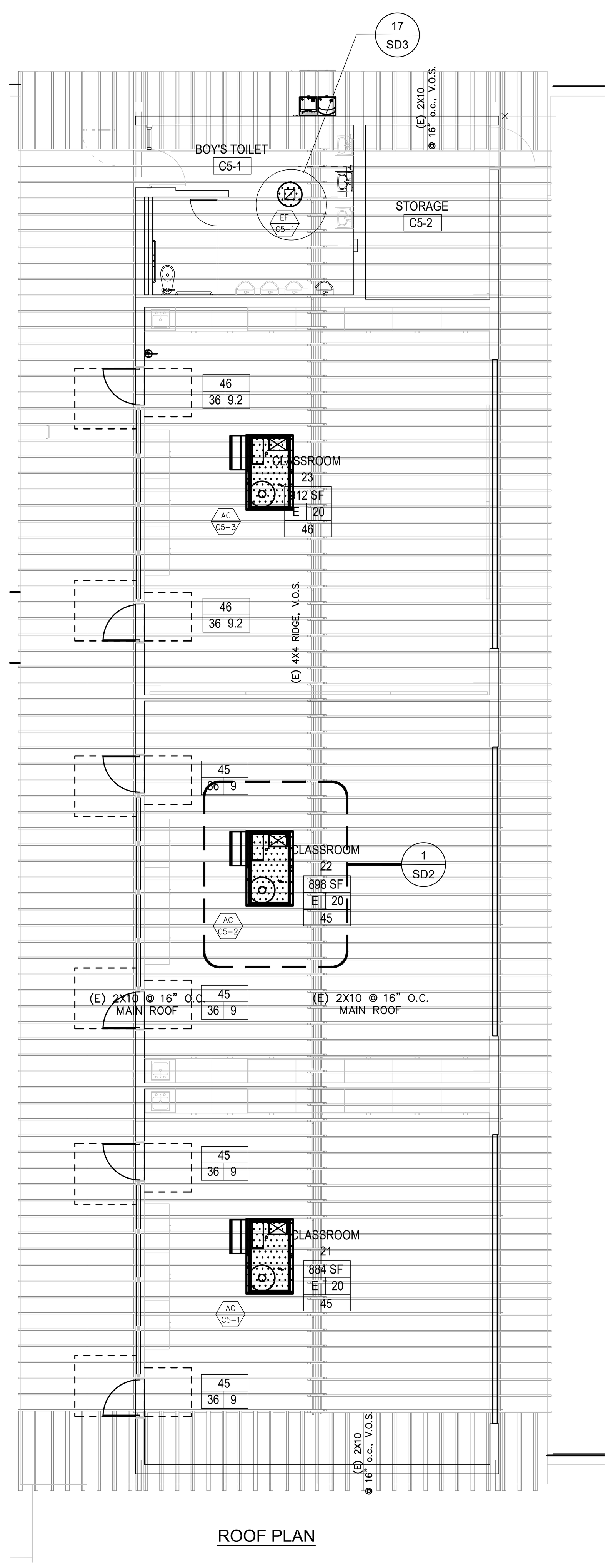
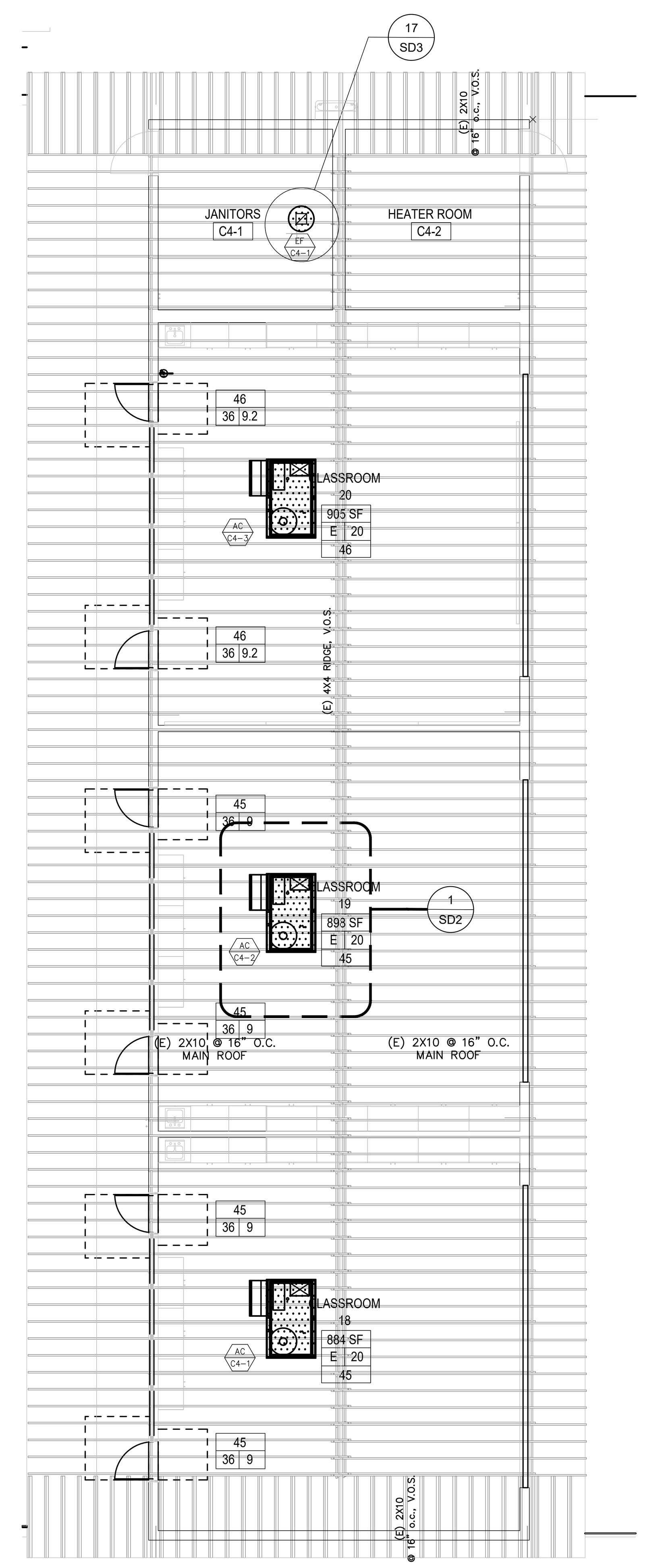
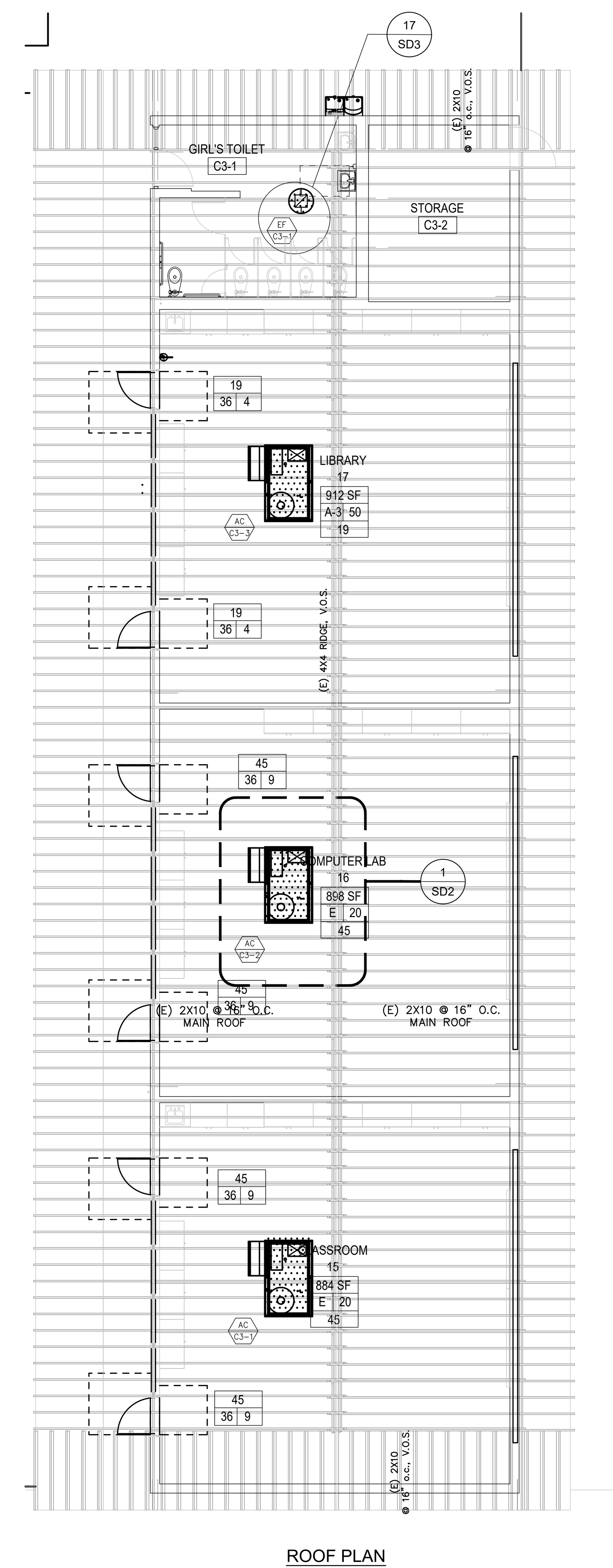


FLOOR/ROOF PLAN - BLDG C5 3
3/16" = 1'-0"



ROOF PLAN - BLDG C4 2
3/16" = 1'-0"



FLOOR/ROOF PLAN - BLDG C3 1
3/16" = 1'-0"

1. THE MAXIMUM OPERATIONAL WEIGHTS OF NEW UNITS ARE LISTED IN THE ANCHORAGE SCHEDULE IN DETAIL 4/SD2. EXACT SIZE AND WEIGHT OF UNITS MAY SLIGHTLY DIFFER FROM THE ONES SPECIFIED ON THESE DRAWINGS/SCHEDULE. SHOULD THE ACTUAL WEIGHT OF ANY UNITS EXCEED MORE THAN 10% OF THE LISTED WEIGHTS, IMMEDIATELY NOTIFY SE OR AND DSA DISTRICT ENGINEER FOR FURTHER INSTRUCTION.
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LEGEND

Symbol	Description
	(E) BEAM, V.O.S., PER PLAN SEE NOTE A-D
	(E) HEADER, V.O.S., PER PLAN, SEE NOTES A-D
	(E) ROOF FRAMING, PER PLAN, WHERE OCCURS, SEE NOTES A-D
	(E) STL POST, V.O.S.
	(N) MATCHING SISTER JOIST, PER PLAN FOR EXACT LOCATION, SEE DETAIL 1/SD2
	(N) CONC. SLAB-ON-GRADE
	(N) ROOFTOP UNIT, PER PLAN, SEE 1/SD2 SEE NOTE 1-7
	(N) SUSPENDED UNIT, PER PLAN, SEE 4/SD3 SEE NOTE 1-7
	(N) HVAC UNIT, PER MECH. PLANS SEE NOTE 1-7
	DUCT THROUGH ROOF PENETRATION PER MECH.

EQUIPMENT SCHEDULE (*)

UNIT DESCRIPTION	OVERALL WEIGHT(LBS)	DIMENSIONS	DETAIL REF.
AC C3-1, AC C3-2, AC C3-3, AC C4-1, AC C4-2, AC C4-3, AC C5-1, AC C5-2, AC C5-3			
HEAT PUMP (CURB)	595...610 347	74"L x 44"W x 41"H	FOR DETAIL SEE SHEET SD2
EF C3-1, EF C4-1, EF C5-1			
EXHAUST FAN	75		FOR DETAIL SEE 17/SD3

(*) SUBJECT TO CHANGE REFER TO LATEST MECHANICAL PACKAGE. SEE NOTES 1-7

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FINLEY ES HVAC UPGRADE & MODERNIZATION

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13521 Edwards St.,
Westminster, CA 92683

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KEY PLAN NORTH: PLAN TRUE

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NEWPORT BEACH, CA 92660
NIC PROJECT NO.2224.07

Architect

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WESTMINSTER SCHOOL DISTRICT

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ROOF PLANS - BLDG C3, C4 & C5

S2

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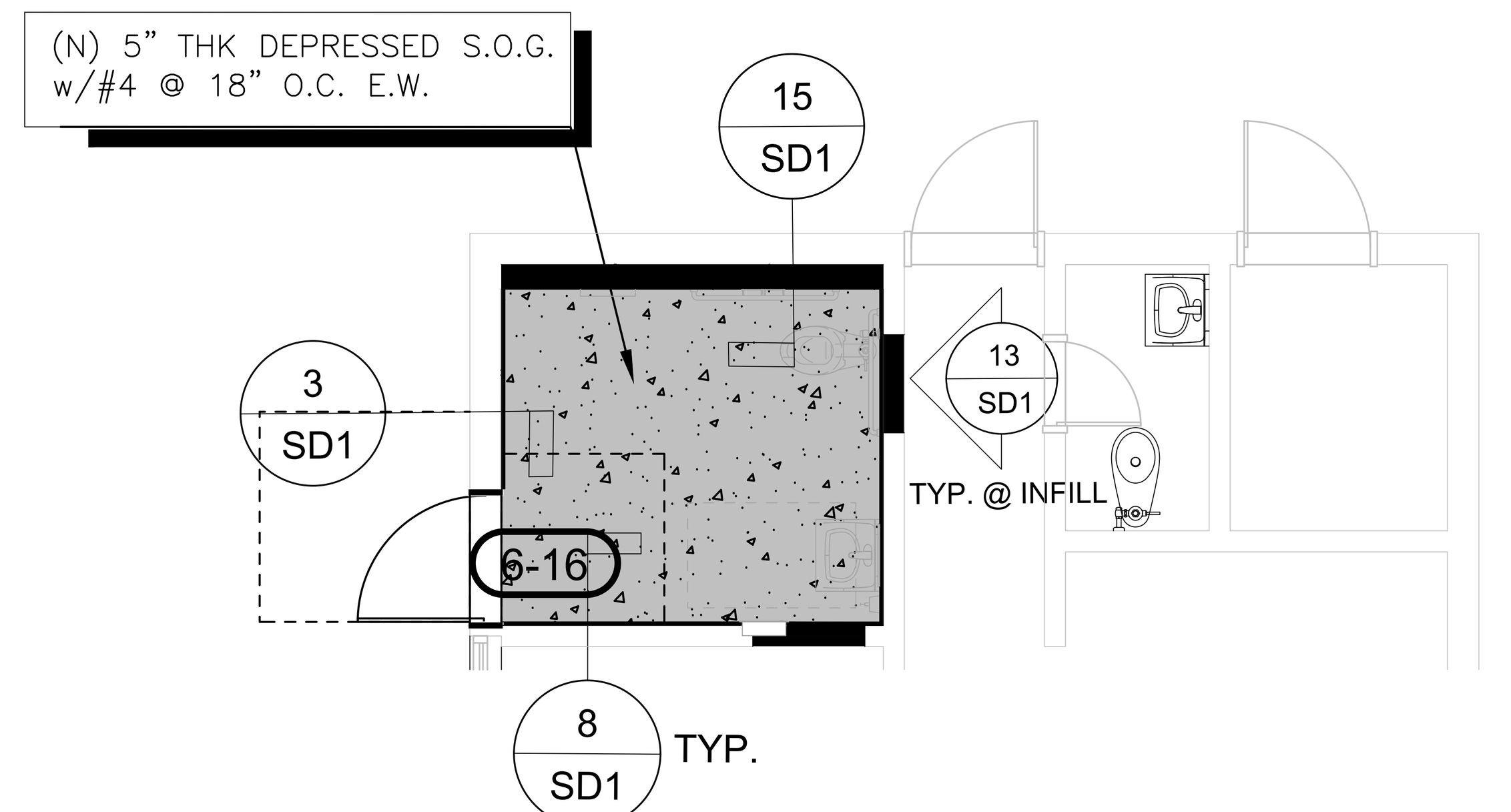
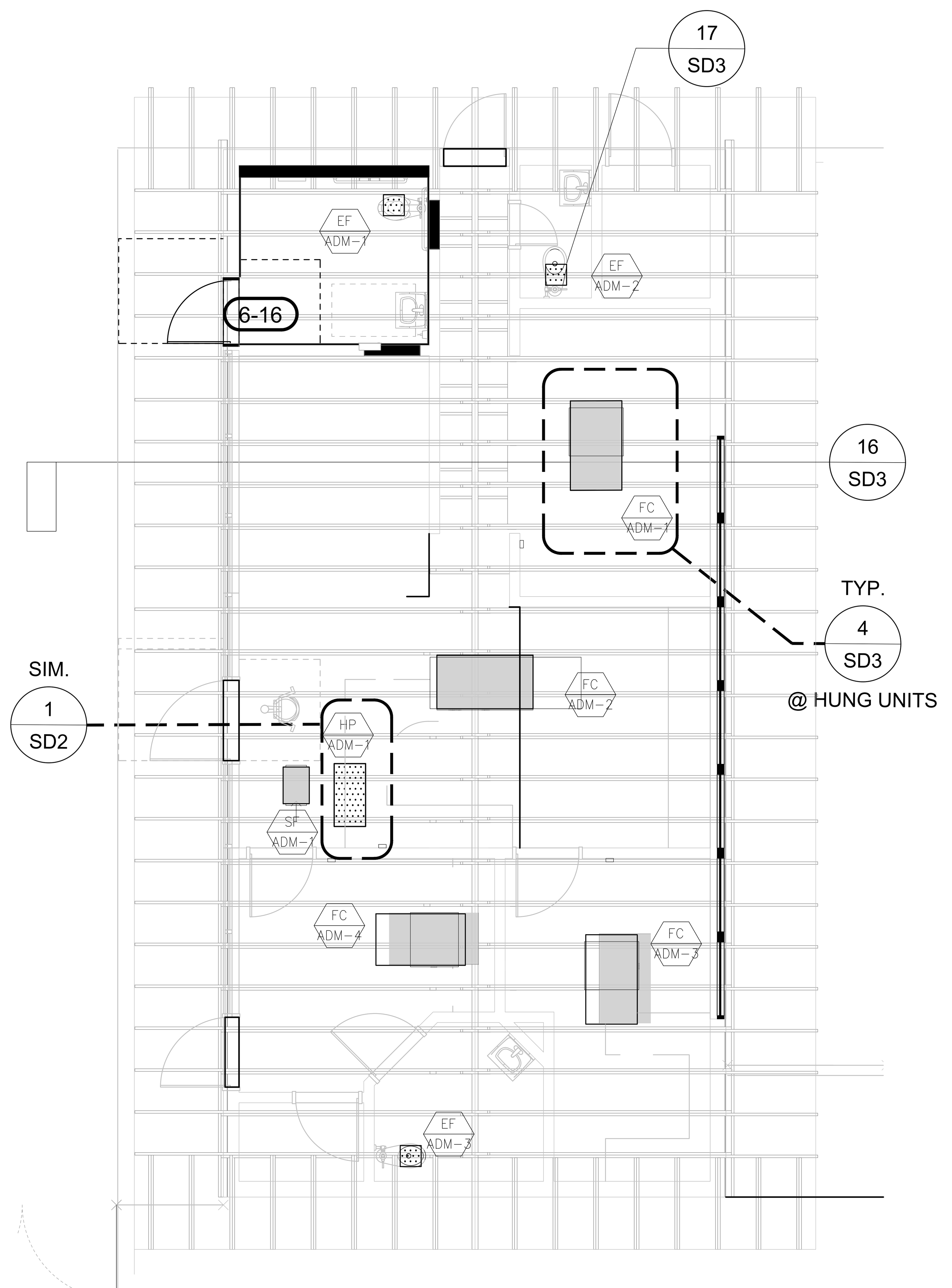
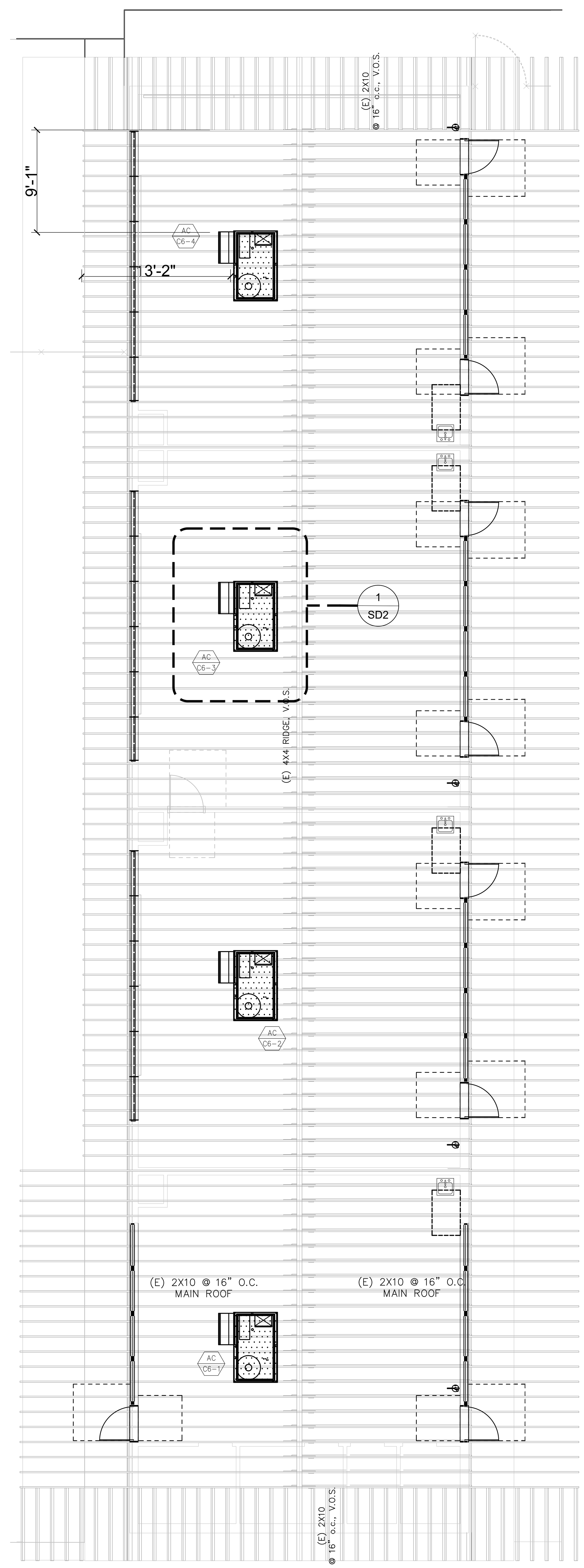


FLOOR PLAN



ROOF PLAN

FLOOR/ROOF PLAN - BLDG ADMIN 2
1/4" = 1'-0"



ROOF PLAN - BLDG C6 1
3/16" = 1'-0"

1. THE MAXIMUM OPERATIONAL WEIGHTS OF NEW UNITS ARE LISTED IN THE ANCHORAGE SCHEDULE IN DETAIL 4/SD2. EXACT SIZE AND WEIGHT OF UNITS MAY SLIGHTLY DIFFER FROM THE ONES SPECIFIED ON THESE DRAWINGS/SCHEDULE. SHOULD THE ACTUAL WEIGHT OF ANY UNITS EXCEED MORE THAN 10% OF THE LISTED WEIGHTS, IMMEDIATELY NOTIFY SE OR AND DSA DISTRICT ENGINEER FOR FURTHER INSTRUCTION.
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LEGEND

Symbol	Description
(thin grey line)	(E) BEAM, V.O.S., PER PLAN SEE NOTE A-D
(heavy line)	(E) HEADER, V.O.S., PER PLAN, SEE NOTES A-D
(thin line)	(E) ROOF FRAMING, PER PLAN, WHERE OCCURS, SEE NOTES A-D
(square)	(E) STL POST, V.O.S.
(dashed line)	(N) MATCHING SISTER JOIST, PER PLAN FOR EXACT LOCATION, SEE DETAIL 1/SD2
(stippled box)	(N) CONC. SLAB-ON-GRADE
EF / HP (dashed box)	(N) ROOFTOP UNIT, PER PLAN, SEE 1/SD2 SEE NOTE 1-7
FC (grey box)	(N) SUSPENDED UNIT, PER PLAN, SEE 4/SD3 SEE NOTE 1-7
(hexagon)	(N) HVAC UNIT, PER MECH. PLANS SEE NOTE 1-7
(crossed box)	DUCT THROUGH ROOF PENETRATION PER MECH.

EQUIPMENT SCHEDULE (*)

UNIT DESCRIPTION	OVERALL WEIGHT(LBS)	DIMENSIONS	DETAIL REF.
AC C6-1, AC C6-2, AC C6-3, AC C6-4, HP ADM-1			
HEAT PUMP (CURB)	595 347	74"L x 44"W x 41"H	FOR DETAIL SEE SHEET SD2
FC ADM-1, FC ADM-2, FC ADM-3, FC ADM-4			
FAN COIL (SUSPENDED)	60...100		FOR DETAIL SEE 4/SD3
EF ADM-1, EF ADM-2, EF ADM-3, SF ADM-1			
FAN	15...50		

(*) SUBJECT TO CHANGE REFER TO LATEST MECHANICAL PACKAGE. SEE NOTES 1-7

(+) AC UNIT WEIGHT INCLUDES RTU SELF WEIGHT AND WEIGHT OF MECH. CURB

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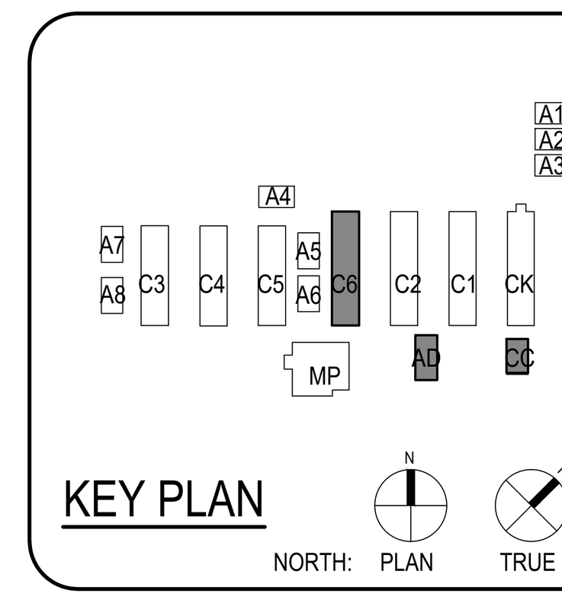

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WESTMINSTER SCHOOL DISTRICT

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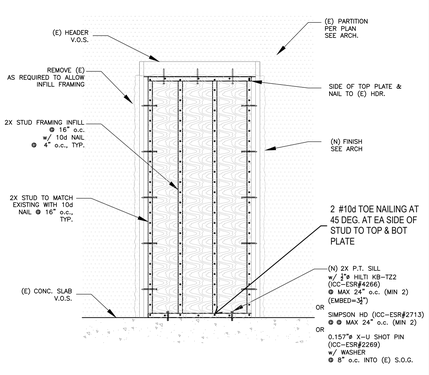
ROOF PLANS - BLDG C6 & ADMIN

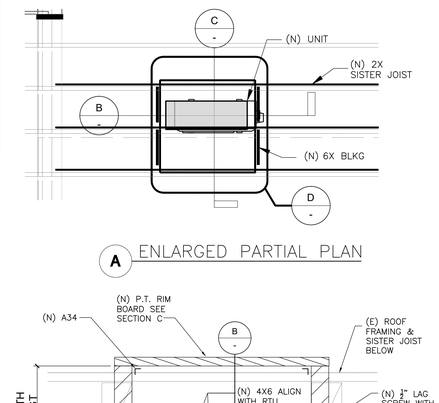
S3

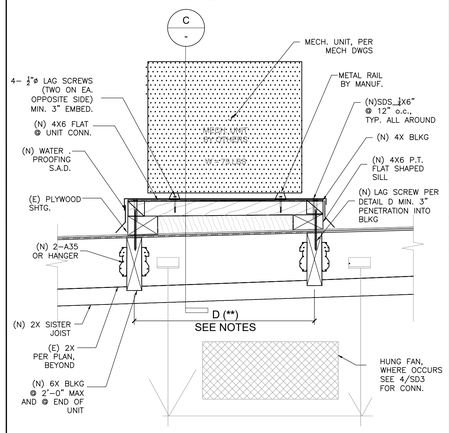
FILE PATH: Z:\Projects\...

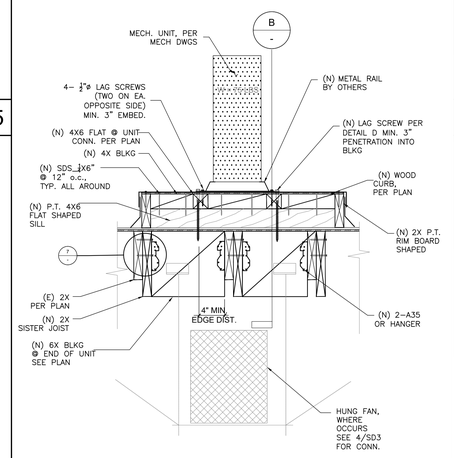
0" 1"



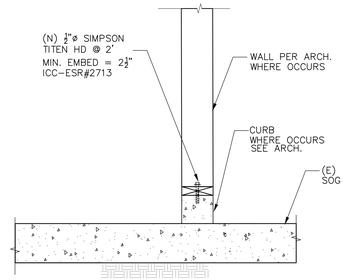
17 TYP. INFILL @ DOOR OPNG. 13



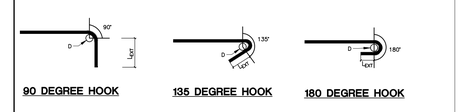




12 SUPPORT FOR LIGHT WT. UNITS



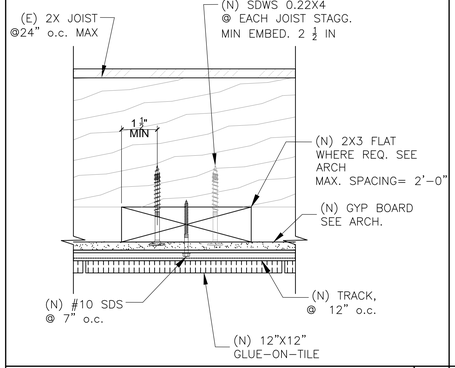
TYP. BOT. CONN. @ PARTN. NB WALL 5



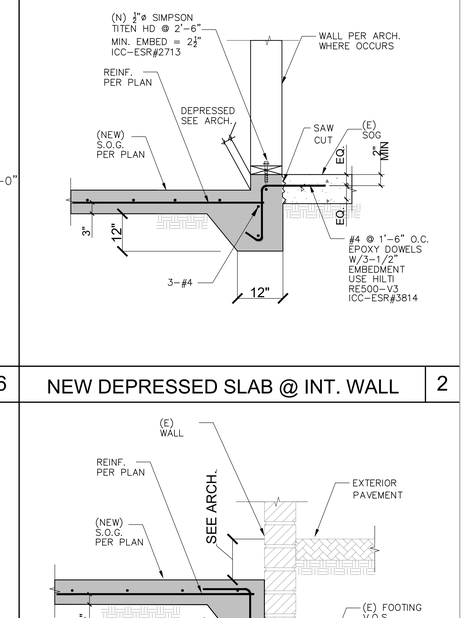
	TYPE OF HOOK	BAR SIZE	MIN D (IN)	L_{EXT} (IN)
STIRRUP	90–DEGREE HOOK	#3–5	$4d_b$	GREATER OF $6d_b$ AND 3"
		#6–8	$6d_b$	$12d_b$
	135–DEGREE HOOK	#3–5	$4d_b$	GREATER OF $6d_b$ AND 3"
		#6–8	$6d_b$	
	180–DEGREE HOOK	#3–5	$4d_b$	GREATER OF $4d_b$ AND 2.5"
		#6–8	$6d_b$	
BENT BAR	90–DEGREE HOOK	#3–8	$6d_b$	$12d_b$
		#9–11	$8d_b$	
	180–DEGREE HOOK	#3–8	$6d_b$	GREATER OF $4d_b$ AND 2.5"
		#9–11	$8d_b$	

D = INSIDE BENT DIAMTER

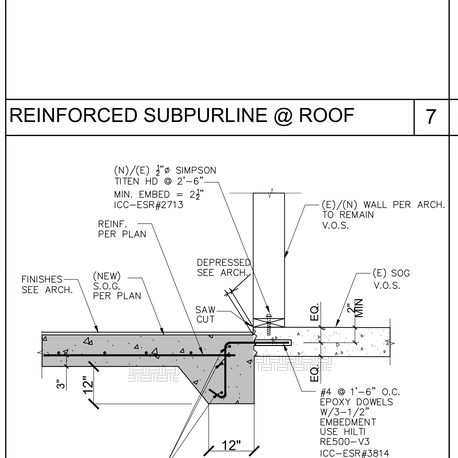
BAR BENDING & STIRRUPS 1



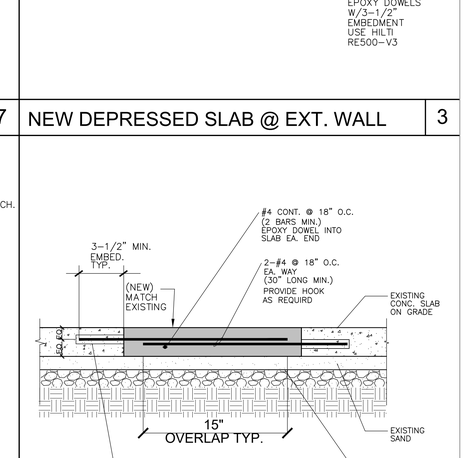
CEILING JOIST DETAIL 6



NEW DEPRESSED SLAB @ INT. WALL 2



CEILING JOIST DETAIL 6



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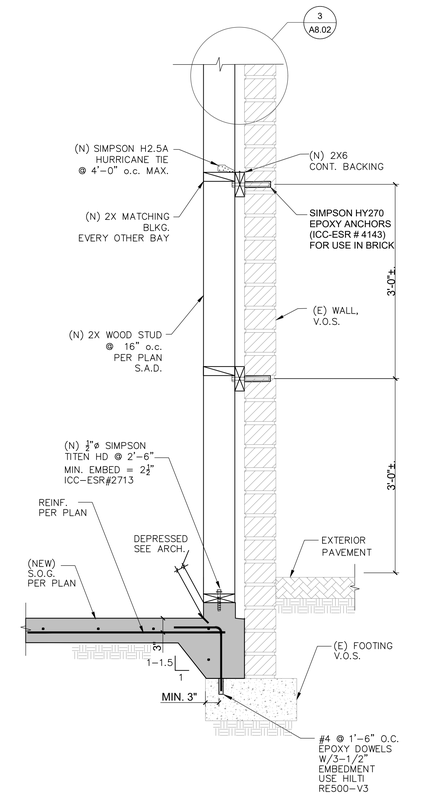

19 TYP. FURRING WALL SUPPORT 15

REINFORCED SUBPURLINE @ ROOF 7

NEW DEPRESSED SLAB @ EXT. WALL 3

20 16

NEW DEPRESSED SLAB @ INT. WALL 8

TYPICAL REPAIR AT SLAB ON GRADE 4

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DATE: 08/11/2023

PBK

ARCHITECT
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COSTA MESA
PBK.com
600 Anton Boulevard, Suite 1375
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FINLEY ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
13521 Edwards St.
Westminster, CA 92683

DSA SUBMITTAL

DSA APPL NO.: ##-###### DSA FILE NO.: ###

A1 A2 A3 A4 A5 A6 A7 A8 C1 C2 C3 C4 C5 C6 CK MP

KEY PLAN
NORTH: PLAN TRUE

Consultant
STRUCTURAL ENGINEERING CONSULTANTS
23 CORPORATE PLAZA DR. SUITE 150
NEWPORT BEACH, CA 92660
NIC PROJECT NO.2224.07
REGISTERED PROFESSIONAL ENGINEER TUNG LAM No. S4302 Exp. 09/30/23 STRUCTURAL STATE OF CALIFORNIA

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
_-_-_	17391

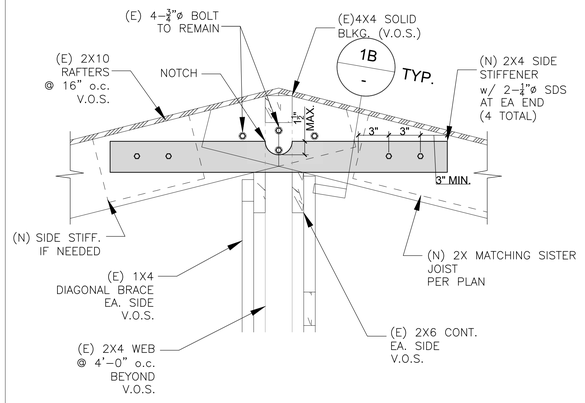
REVISIONS

No.	Description	Date

DSA SUBMITTAL

CONCRETE DETAILS

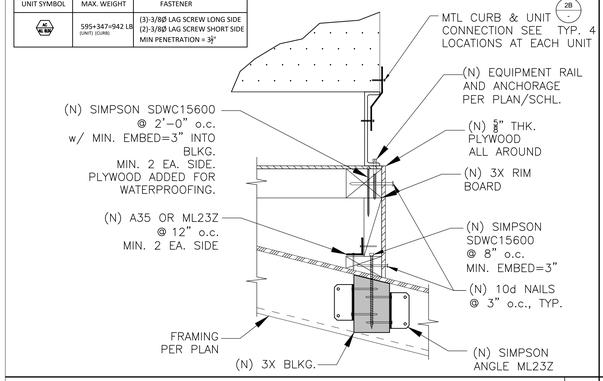
SD1



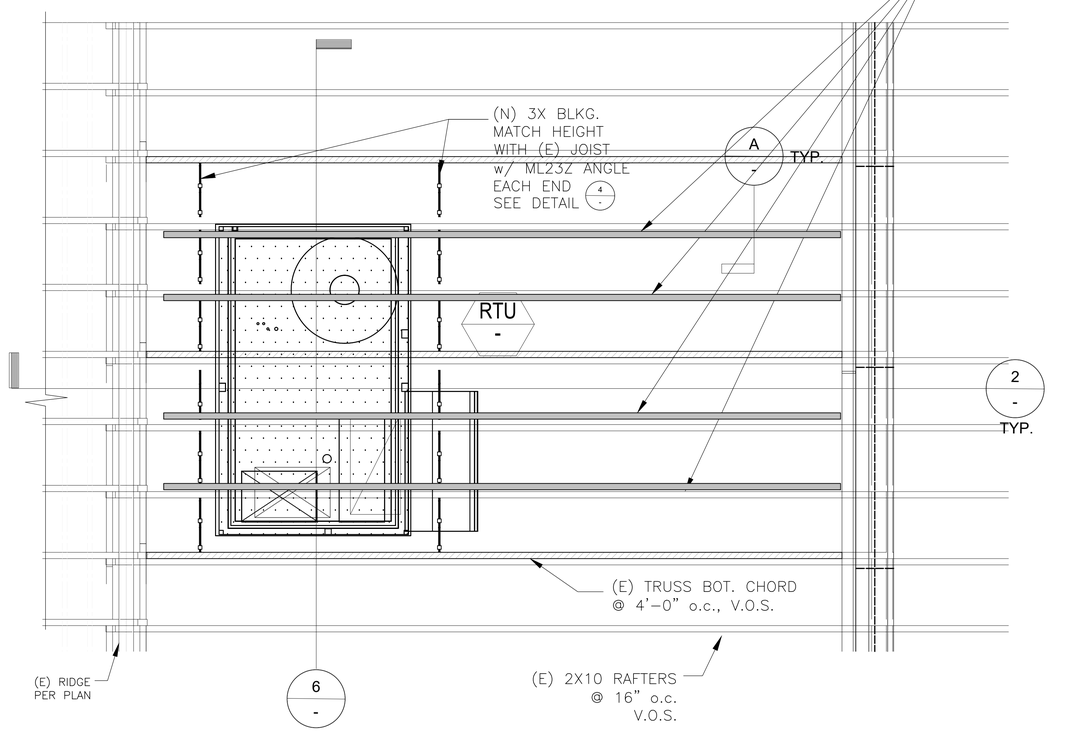
DETAIL 3

RTU ANCHORAGE SCHEDULE

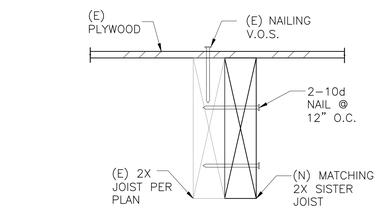
UNIT SYMBOL	MAX. WEIGHT	FASTENER
AC, EU, HP	595+347=942 LB (UNIT) (CURB)	(3)-3/8ø LAG SCREW LONG SIDE (2)-3/8ø LAG SCREW SHORT SIDE MIN PENETRATION = 3½"



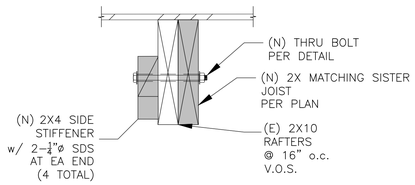
DETAIL 4



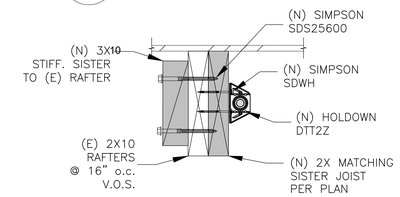
NEW MECH. UNIT @ CLASSROOM 1



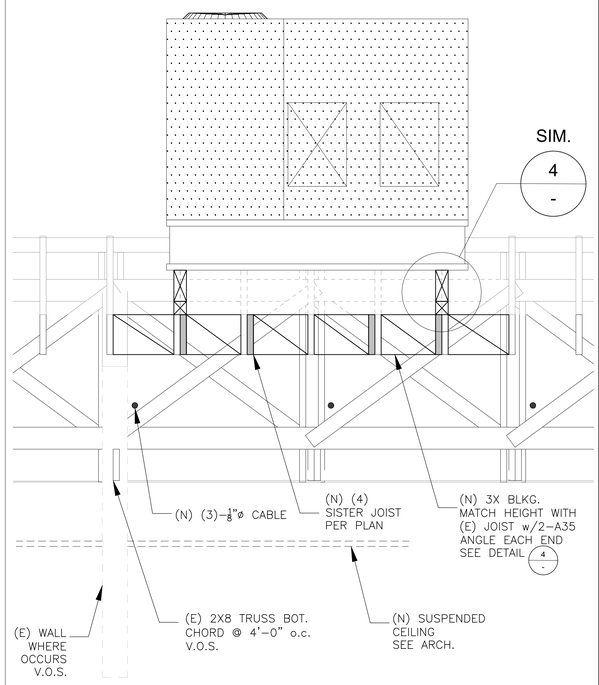
A TYP. SISTER JOIST CONN.



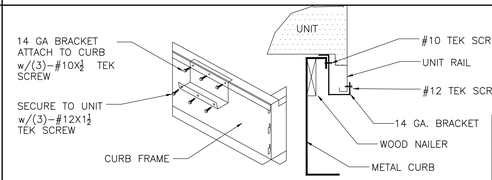
B TYP. SISTER JOIST CONN.



C TYP. SISTER JOIST CONN.



SECTION 6



B RTU TO CURB CONN. (TYP. TWO ON EA. SIDE)

A DETAIL

NEW MECH. UNIT @ CLASSROOM 2

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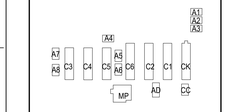

KEY PLAN
NORTH: PLAN TRUE

Consultant
STRUCTURAL ENGINEERING CONSULTANTS
23 CORPORATE PLAZA DR. SUITE 150
NEWPORT BEACH, CA 92660
NIC PROJECT NO.2224.07

REGISTERED PROFESSIONAL ENGINEER
RUBAJ EMAD
No. 84302
Exp. 09/30/23
STRUCTURAL
STATE OF CALIFORNIA

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
-/-/-	17391

REVISIONS

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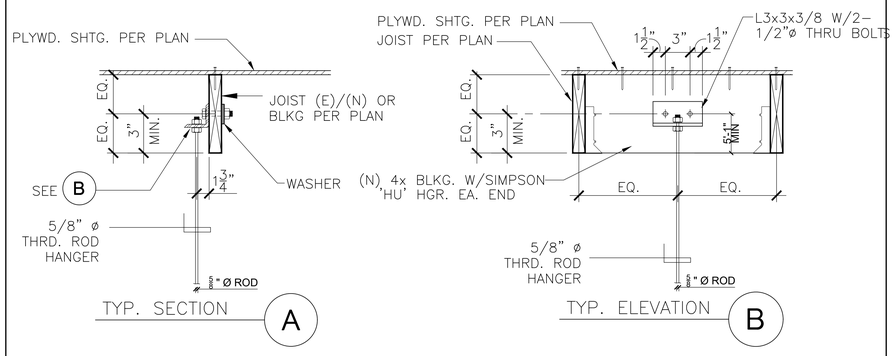
DSA SUBMITTAL

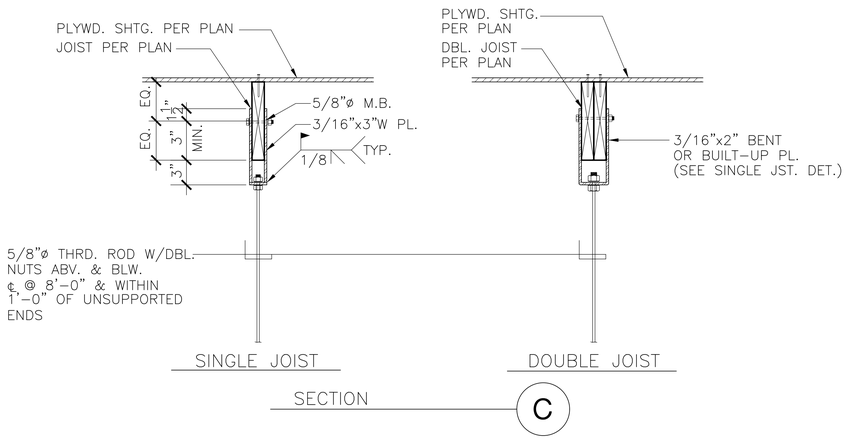
RTU DETAILS

SD2



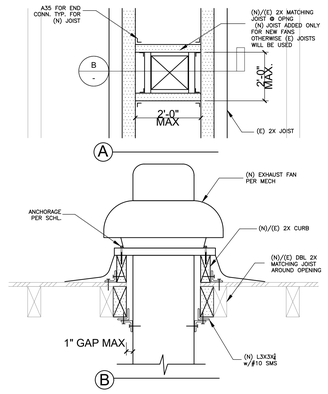
TYP. SECTION A

TYP. ELEVATION B

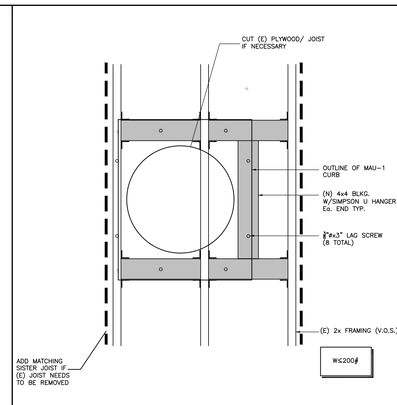


SECTION C

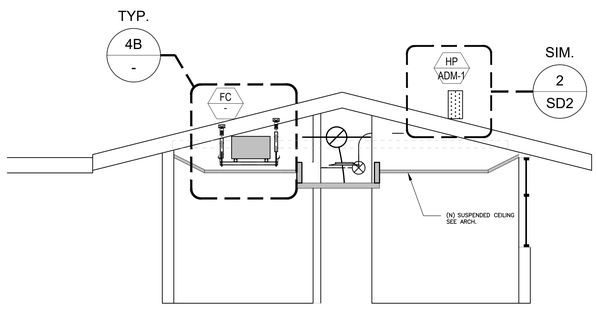
HANGER FOR SAWN LUMBER (UP TO 250 LB) | 14



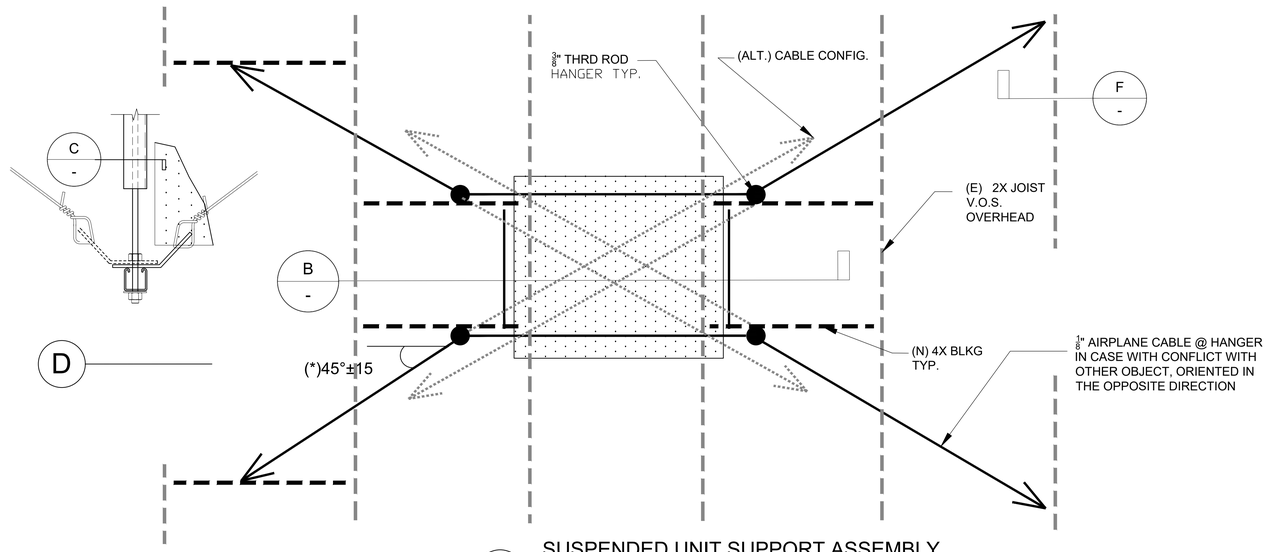
DETAIL | 17



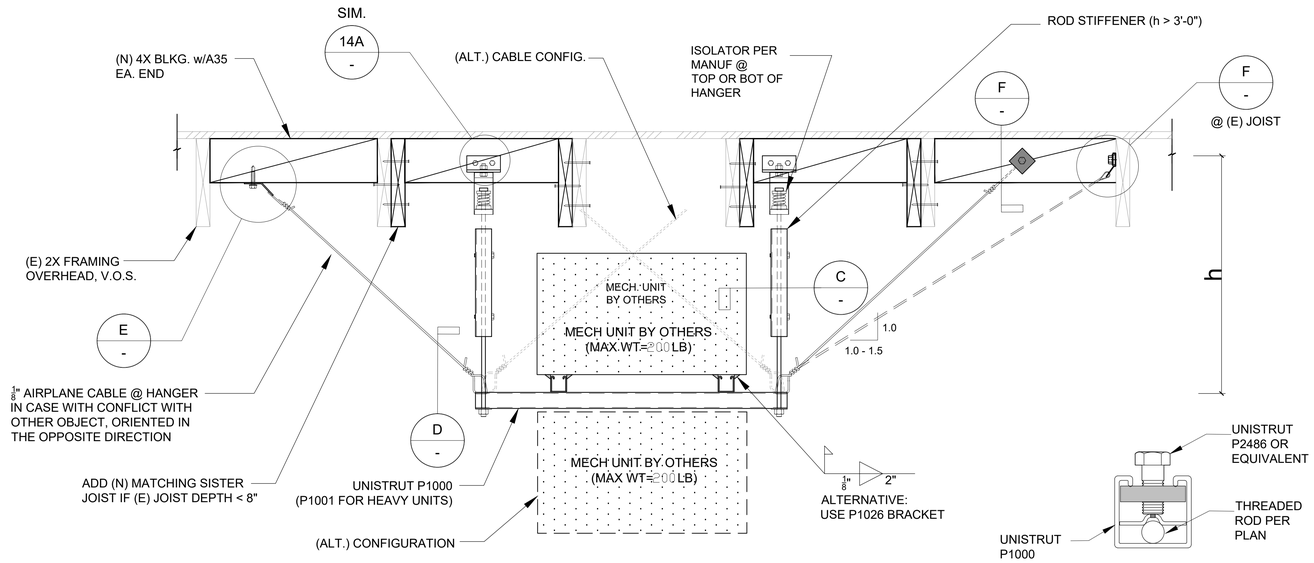
LIGHT WT EQUIP. SUPPORT FRAMING | 15



BLDG SECTION | 16

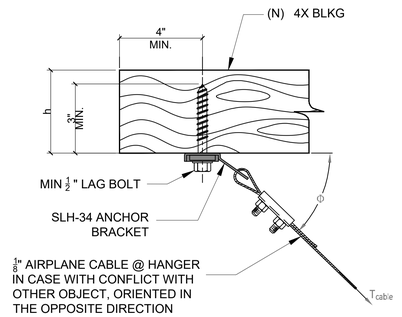


A SUSPENDED UNIT SUPPORT ASSEMBLY
PARTIAL PLAN



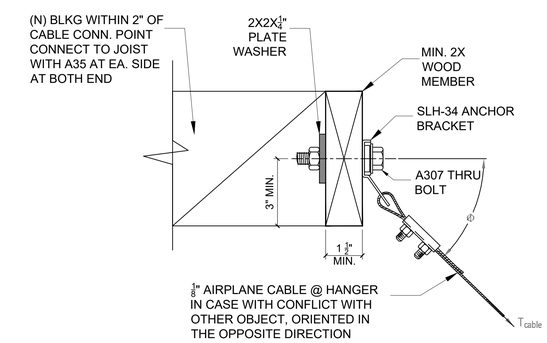
B SECTION

C ROD STIFFENER ("h">3'-0")



MAX SERVICE LOAD: 100 lbs

E LAG BOLT TO WOOD MEMBER



MAX SERVICE LOAD: 100 lbs

F THRU BOLT PERPENDICULAR TO WOOD MEMBER

BLDG SECTION | 16 — HANGER SUPPORT/ SEISMIC BRACING @ HUNG UNITS (MAX 400-lbs) | 4

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NIC PROJECT NO.2224.07

REGISTERED PROFESSIONAL ENGINEER TOMAJ EMAMI No. S4302 Exp. 09/30/23 STRUCTURAL STATE OF CALIFORNIA

Architect

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HUNG UNITS DETAILS

SD3

M0.00 - MECHANICAL SYMBOLS, LEGENDS & GENERAL NOTES

0" 1"

TITLE 24 NOTES

THE FOLLOWING SHALL BE REQUIRED WHETHER OR NOT SPECIFICALLY SHOWN OR MENTIONED IN DRAWINGS AND/OR SPECIFICATIONS:

1. EQUIPMENT SHALL MEET EFFICIENTY REQUIREMENTS OF TABLES 110.2-A THROUGH 110.2-K.
2. ALL AIR-COOLED, UNITARY, DX UNITS (PACKAGED, SPLIT-SYSTEM, HEAT PUMPS AND VRF) WITH ECONOMIZERS SHALL BE EQUIPPED WITH FAULT DETECTION AND DIAGNOSTICS SYSTEMS.
3. PIPE INSULATION FOR SPACE CONDITIONING AND SERVICE WATER-HEATING WITH FLUID TEMPERATURES LISTED IN TABLE 120.3-A SHALL HAVE INSULATION LEVELS AS SPECIFIED IN SUBSECTION (A) AND (B).
4. MECHANICAL HEATING AND COOLING EQUIPMENT SHALL BE THE SMALLEST SIZE, WITHIN THE AVAILABLE OPTIONS OF THE DESIRED EQUIPMENT LINE, NECESSARY TO MEET THE DESIGN HEATING AND COOLING LOADS OF THE BUILDING, AS CALCULATED ACCORDING TO THE REQUIREMENTS OF SECTION 140.4(B).
5. HVAC MOTORS FOR FANS THAT ARE LESS THAN 1 HP AND 1/12 HP OR GREATER SHALL BE ECM OR HAVE A MINIMUM MOTOR EFFICIENCY OF 70%. MOTORS SHALL ALSO HAVE MEANS TO ADJUST MOTOR SPEED FOR BALANCING OR REMOTE CONTROL.
6. ELECTRIC RESISTANCE HEATING SYSTEMS ARE NOT PROVIDED FOR SPACE HEATING.
7. IN DRIER CLIMATES AND WHEN LARGE OUTDOOR AIR FRACTIONS ARE REQUIRED, EVAPORATIVE PRE-COOLING PACKAGES WERE EVALUATED TO PRE-COOL OUTSIDE AIR AND COOL THE AIR FLOWING OVER THE DX CONDENSING UNIT.
8. ZONE EACH AIR HANDLER TO SERVE ONLY AREAS WITH COMMON LOADS TO ALLOW MORE AGGRESSIVE CONTROL STRATEGIES AND IMPROVE COMFORT. HAVE DIFFERENT AHU'S SERVING CORE VS. PERIMETER AREAS.
9. THE DESIGN ACCOMMODATES PARTIAL OCCUPANCY ENERGY SAVINGS WHEN THE OWNER'S REQUIREMENTS OR NARRATIVE DESCRIBE ANY POSSIBLITY OF PARTIAL OCCUPANCY, BY ZONING AIR HANDLERS BY FLOOR OR BY PART OF A FLOOR, OR BY INCORPORATING CONTROLLED FLOOR DAMPERS, OR VAV AIR TERMINALS GOING TOTALLY SHUT WHEN NOT OCCUPIED, ETC.
10. EACH ZONE IS CONTROLLED BY AN INDIVIDUAL THERMOSTATIC CONTROL. CONTROLS SHALL BE CAPABLE OF SETTING TEMPERATURES TO 55 DEG F FOR HEATING AND 85 DEG F FOR COOLING AND PROVIDE A TEMPERATURE DEADBAND OF AT LEAST 5 DEG F IF CONTROLLING BOTH HEATING AND COOLING.
11. EACH SPACE CONDITIONING SYSTEM SHALL BE EQUIPPED WITH CONTROLS TO SHUT THE SYSTEM OFF DURING PERIODS OF NONUSE AND WILL TEMPORARILY OPERATE THE SYSTEM TO MAINTAIN SETBACK AND SETUP TEMPERATURES WHILE KEEPING VENTILATION DAMPERS CLOSED.
12. SYSTEMS SERVING MULTIPURPOSE ROOMS LESS THAN 100 SF AND CLASSROOMS, CONFERENCE, AUDITORIUM OR MEETING CENTER ROOMS GREATER THAN 750 SF SHALL HAVE OCCUPANCY SENSORS THAT INTERFACE WITH HVAC CONTROLS TO AUTOMATICALLY SETUP THE COOLING SETPOINT BY 2F OR MORE AND AUTOMATICALLY RESET THE MINIMUM REQUIRED VENTILATION RATE. THESE OCCUPANT SENSOR VENTILATION CONTROL DEVICES MUST MEET THE REQUIREMENTS OF SECTION 120.1(C)5.
13. OUTDOOR AIR SUPPLY AND EXHAUST EQUIPMENT SHALL BE INSTALLED WITH DAMPERS THAT AUTOMATICALLY CLOSE UPON EF FAN SHUTDOWN.
14. HVAC SYSTEMS WITH DDC TO THE ZONE LEVEL SHALL BE PROGRAMMED TO ALLOW CENTRALIZED DEMAND SHED FOR NON-CRITICAL ZONES.
15. ZONE CONTROLS PREVENT REHEATING, RECOOLING AND SIMULTANEOUS PROVISIONS OF HEATING AND COOLING TO THE SAME ZONE.
16. EACH WALL MOUNTED THRMOSTAT SHALL BE LOCATED AWAY FROM POTENTIAL SOURCES THAT WOULD ADVERSELY AFFECT THE READING (CLOSE TO COPIERS, DIRECT SUNLIGHT, BELOW OR ABOVE A SUPPLY AIR DIFFUSER OR CONVECTOR, ETC.). ANY THERMOSTATS MOUNTED ON EXTERIOR WALLS SHALL BE INSTALLED IN SEALED AND INSULATED JUNCTION BOXES.
17. CORNER OFFICE SHALL ALWAYS HAVE THEIR OWN THERMOSTATS, AIR TERMINAL BOXES OR FIN-TUBE RADIATORS.
18. CONTROL SEQUENCES SHALL BE LISTED FOR EQUIPMENT OPERATED BY STAND-ALONE PACKAGED CONTROLS. UNOCCUPIED SEQUENCES SHALL BE INCLUDED.
19. CONTROL SEQUENCES SHALL BE PROVIDED FOR EACH PIECE OF EQUIPMENT LISTED IN THE EQUIPMENT SCHEDULE THAT IS MONITORED OR CONTROLLED BY THE BUILDING AUTOMATION SYSTEM (BAS). UNOCCUPIED SEQUENCES SHALL BE INCLUDED.
20. OUTSIDE AIR TEMPERATURE SENSORS SHALL BE IN A COMMERCIALLY DESIGNED SOLAR SHIELD LOCATED ON A NORTH WALL OR SOME OTHER LOCATION OUT OF DIRECT SUNLIGHT AND AWAY FROM BUILDING EXHAUST OR HEAT REJECTION EQUIPMENT.
21. THE OUTDOOR AIR-VENTILATION RATE AND AIR-DISTRIBUTION ASSUMPTIONS MADE IN THE DESIGN OF THE VENTILATING SYSTEM ARE CLEARLY IDENTIFIED ON THE PLANS.
22. EACH SPACE IS DESIGNED TO HAVE NATURAL VENTILATION OR MECHANICAL VENTILATION THAT IS NO LESS THAN THE LARGER OF CONDITIONED FLOOR AREA TIMES THE REQUIREMENTS IN TABLE 120.1-A OR 15 CFM TIMES THE EXPECTED NUMBER OF OCCUPANTS.
23. THE MINIMUM AND MAXIMUM OUTDOOR AIR RATES FOR EACH AIR HANDLER ARE LISTED ON THE EQUIPMENT SCHEDULES.
24. THE OUTDOOR AIR-VENTILATION RATES ARE BASED ON PLANNED OWNER OCCUPANCY AS DEFINED IN OWNER'S DESIGN INTENT AND ARE NOT BASED ON MAXIMUM EGRESS OCCUPANCY RATES.
25. HVAC SYSTEMS THAT HAVE AN ECONOMIZER, SERVE A SPACE WITH A DESIGN OCCUPANT DENSITY GREATER THAN OR EQUAL TO 25 PEOPLE PER 1000 SF, AND ARE EITHER A SINGLE ZONE SYSTEM WITH ANY CONTROLS OR MULTIPLE ZONE SYSTEM WITH DDC CONTROLS TO THE ZONE LEVEL MUST HAVE DEMAND CONTROL VENTILATION CONTROLS. THE FOLLOWING MUST BE MET:
    A. CO2 SENSORS INSTALLED IN EACH ROOM SERVED BY SYSTEMS WITH DCV CONTROLS.
    B. CO2 SENSORS ARE LOCATED BETWEEN 3 FT AND 6 FT ABOVE THE FLOOR.
    C. CO2 CONCENTRATIONS MAINTAINED AT LESS THAN OR EQUAL TO 600 PPM PLUS OUTDOOR PPM.
    D. DURING HOURS OF EXPECTED OCCUPANCY, CONTROLS MAINTAIN THE SYSTEM VENTILATION RATE.
26. EACH COOLING FAN SYSTEM THAT HAS A DESIGN MECHANICAL COOLING CAPACITY OVER 54,000 BTU/H SHALL HAVE AN AIR ECONOMIZER OR A WATER ECONOMIZER. AIR ECONOMIZERS MUST COMPLY WITH THE HIGH LIMIT SHUTOFF CONTROLS SHOWN IN TABLE 140.4-B.
27. INTEGRATED ECONOMIZER CONTROLS SHALL BE SET UP SUCH THAT PARTIAL COOLING IS PROVIDED BY THE ECONOMIZER EVEN WHEN ADDITIONAL MECHANICAL COOLING ID REQUIRED.
28. ECONOMIZER DAMPERS SHALL BE DRIVEN BY DIRECT DRIVE ACTUATORS RATHER THAN ROD LINKAGES, WHICH CAN BE A MAJOR CAUSE OF ECONOMIZER MALFUNCTION.
29. BAROMETRIC RELIEF IS USED, IF POSSIBLE. IF NOT, RELIEF FANS (RATHER THAN RETURN FANS) SHALL BE USED IN MOST CASES.
30. OUTDOOR AND RETURN AIR SENSORS SHALL BE PROPERLY SELECTED, PROPERLY LOCATED TO PROVIDE ACCURATE AND REPEATABLE MEASUREMENTS FOR CONTROLLING ECONOMIZER OPERATION. AVERAGING SENSORS COVER THE ENTIRE DUCT OR COIL FACE AREAS.
31. ALL AIR DISTRIBUTION SYSTEM DUCTS AND PLENUMS MUST BE INSTALLED, SEALED AND INSULATED AS REQUIRED BY 120.4(A).
32. DUCT SEALING LEAKAGE RATES SHALL BE NO MORE THAN 6% OF AIR FLOW FOR NEW DUCT SYSTEMS AND NO MORE THAN 15% OF AIR FLOW FOR ALTERED EXISTING DUCT SYSTEMS.
33. DUCT SHALL UTILIZE LOW STATIC PRESSURE DESIGN. IDENTIFY THE MOST RESTRICTIVE BRANCH FROM THE FAN TO THE LAST AIR TERMINAL UNIT. IDENTIFY POSSIBLE MEANS OF SIGNIFICANTLY REDUCING THE PRESSURE DROP. BRANCH DUCT SYSTEMS SHALL DESIGNED FOR EQUAL PRESSURE DROP, WHEN POSSIBLE.
34. DUCT BRANCHES WITH SIGNIFICANTLY DIFFERING STATIC PRESSURE REQUIREMENTS SHALL HAVE VOLUME CONTROL STRATEGICALLY PLACED TO AID IN TAB WORK.
35. FAN SHALL DISCHARGE INTO DUCT SECTIONS THAT REMAIN STRAIGHT FOR AS LONG AS POSSIBLE (IDEALLY 10 DUCT DIAMETERS) TO REDUCE FAN INEFFICIENCIES FROM SYSTEM EFFECTS.
36. DUCT VELOCITIES SHALL GENERALLY BE BELOW 2,000 FPM FOR DUCTS IN CEILING PLENUMS, 1500 FPM FOR EXPOSED DUCTS AND 3500 FPM IN MECHANICAL ROOMS AND NON-NOISE SENSITIVE SHAFTS AND DO NOT REDUCE ANY DUCT SIZES LISTED ON PLANS.
37. DUCT FRICTION RATES SHALL GENERALLY BE LESS THAN O.25" WC PER 100 LINEAL FEET NEARER THE FAN, 0.15 TO 0.20" IN THE MAIN DUCTS AND 0.08 TO 0.12" WC/100' NEARER THE END OF THE SYSTEM. DESIGNS OVER THESE RATES SHALL BE QUESTIONED. VERY ENERGY EFFICIENT DESIGN CAN LOWER THESE VALUES BY UP TO 40%.
38. CONTRACTOR SHOP DRAWINGS SHALL BE SUFFICIENTLY DETAILED TO ENSURE THAT DISTRIBUTION SYSTEM DESIGN INTENT IS ADEQUATELY CONVEYED TO MATCH PLANS. IF SUFFICIENT DETAIL IS NOT INCLUDED IN DRAWINGS, INSTALLATIONS MAY RESULT IN SIGNIFICANTLY HIGHER PRESSURE DROPS AND HENCE HIGHER ENERGY CONSUMPTION AND OTHER OPERATING ISSUES.
39. ACCEPTANCE REQUIREMENTS ARE CLEARLY IDENTIFIED IN CONSTRUCTION DOCUMENTS.
40. COMMISSIONING MEASURES OR REQUIREMENTS ARE REFLECTED IN THE CONSTRUCTION DOCUMENTS.
41. REQUIREMENTS FOR FUNCTIONAL PERFORMANCE TESTS ARE REFLECTED IN THE CONSTRUCTION DOCUMENTS.
42. COOLING SYSTEMS IDENTIFIED IN TABLE 140.4-D SHALL HAVE FAN CONTROLS TO VARY THE INDOOR FAN AIRFLOW AS A FUNCTION OF LOAD:
    A. DX AND CHILLED WATER COOLING SYSTEMS THAT CONTROL CAPACITY BASED ON OCCUPIED SPACE TEMPERATURE SHALL HAVE A MINIMUM OF 2 STAGES OF CONTROL.
    B. SYSTEMS THAT CONTROL SPACE TEMPERATURE BY MODULATING AIRFLOW TO THE SPACE SHALL HAVE PROPORTIONAL FAN CONTROL.
    C. SYSTEMS WITH AIR SIDE ECONOMIZER SHALL HAVE A MINIMUM OF 2 SPEEDS OF FAN CONTROL DURING ECONOMIZER OPERATION.
43. FAN CABINET ENCLOSURE AND INTERNAL COMPONENTS SHALL BE ELECTED TO MINIMIZE PRESSURE DROP, E.G. FACE VELOCITY IS LESS THAN 500 FPM, LOW PRESSURE DROP COILS, FILTERS, ETC.
44. FAN WHEEL SHALL BE SELECTED FOR EFFICIENT OPERATION, E.G. LARGER DIAMETER ROTATING AT LOWER SPEED.
45. SYSTEMS THAT SERVE MULTIPLE ZONES SHALL HAVE CONTROLS THAT AUTOMATICALLY RESET SUPPLY AIR TEMPERATURE. ZONES WITH HIGH INTERNAL LOADS WITH NEAR CONSTANT AIRFLOW SHALL BE DESIGNED FOR THE ELEVATED RESET SUPPLY AIR TEMPERATURE. RESET CONTROLS SHALL BE IN RESPONSE TO BUILDING LOADS OR TO OUTDOOR AIT TEMPERATURE AND SHALL BE AT LEAST 25% OF THE DIFFERENCE BETWEEN SUPPLY AIR AND DESIGN ROOM AIR TEMPERATURE. CONTROL SEQUENCES ARE IDENTIFIED IN CONSTRUCTION DOCUMENTS.
46. SAT RESET SHALL BE ESTABLISHED WITH AN AGGRESSIVE RESET SCHEDULE OF 10F, E.G. 55F DURING WARM WEATHER AND 65F DURING COOL WEATHER.

GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH CURRENT CALIFORNIA CODE OF REGULATIONS TITLE 24, ALL OTHER APPLICABLE CODES AND REGULATIONS, SMACNA AND ASHRAE GUIDELINES, AND LOCAL CODES.
2. ALL HVAC EQUIPMENT SHALL BE COMPLIANT WITH EFFICIENCY STANDARDS PER TITLE-24, PART 6.
3. ALL FRESH AIR INTAKES SHALL BE AT LEAST 10 FEET IN A HORIZONTAL DIRECTION FROM ALL EXHAUST, FLUE, FUEL BURNING APPLIANCE AND PLUMBING VENT OUTLETS. FOR GAS/ELECTRIC AIR CONDITIONING UNITS WHERE THE CODE REQUIRED CLEARANCES ARE NOT MET, A FACTORY FLUE GAS DEFLECTOR AND EXTENSION SHALL BE USED TO MINIMIZE THESE CLEARANCES. CONTRACTOR SHALL DETERMINE LOCATIONS WHERE REQUIRED PRIOR TO BID. THIS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
4. AIR FILTERS SHALL BE STATE FIRE MARSHAL APPROVED AND LISTED. PREFORMED FILTERS HAVING COMBUSTIBLE FRAMING SHALL BE TESTED AS A COMPLETE ASSEMBLY. AIR FILTERS IN ALL OCCUPANCIES SHALL BE PER TITLE-24 PART 6 AND APPLICABLE ASHRAE REQUIREMENTS. FILTERS SHALL BE ACCESSIBLE
5. REVIEW THESE PLANS AND SPECIFICATIONS PRIOR TO BID. REVIEW PLANS AND SPECIFICATIONS OF OTHER RELATED TRADES INCLUDING ARCHITECTURAL, STRUCTURAL, ELECTRICAL, AND FIRE PROTECTION.
6. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AS THESE ARE PART OF THE CONTRACT DOCUMENTS. WHERE A CONFLICT OCCURS BETWEEN THIS SPECIFICATION AND OTHER SPECIFICATIONS ISSUED AS A PART OF THE CONTRACT DOCUMENTS, THE MORE STRINGENT REQUIREMENT SUPERCEDES.
7. THESE DRAWINGS ARE DIAGRAMMATIC ONLY AND NOT INTENDED TO INDICATE ALL REQUIRED OFFSETS, BENDS, ELBOWS, TRANSITIONS, FITTINGS AS REQUIRED TO CONFORM TO THE BUILDING STRUCTURE, CLEARANCE INSIDE CEILINGS, AVOIDANCE OF OBSTRUCTIONS, AND MAINTAINING HEAD CLEARANCE.
8. COORDINATE INSTALLATION WITH ALL OTHER TRADES PRIOR TO INSTALLATION OF EQUIPMENT OR MATERIALS, INCLUDING BUT NOT LIMITED TO, STRUCTURAL, ARCHITECTURAL, ELECTRICAL, AND PLUMBING.
9. COORDINATE THE LOCATIONS OF ALL CEILING DIFFUSERS, REGISTERS, AND GRILLES WITH THE ARCHITECTURAL REFLECTIVE CEILING PLANS, ELECTRICAL LIGHTING LAYOUT, AND ARCHITECTURAL ROOM ELEVATIONS. THE ARCHITECT AND ENGINEER SHALL BE IMMEDIATELY NOTIFIED OF ANY CONFLICTS PRIOR TO FABRICATION AND INSTALLATION.
10. COORDINATE THE LOCATION OF ALL ROOF OPENINGS AND THE LOCATIONS OF ALL ROOF MOUNTED EQUIPMENT WITH THE STRUCTURAL AND ARCHITECTURAL WEIGHTS FOR PLATFORM AND CURB SIZES, FOR ROOF AND WALL PENETRATION DETAILS AND REQUIREMENTS, SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS. REQUIRED PLATFORMS AND FLASHINGS FOR MECHANICAL EQUIPMENT SHALL BE AS INDICATED ON THE STRUCTURAL AND ARCHITECTURAL PLANS, UNLESS NOTED OTHERWISE.
11. HIRE A TEST AND BALANCE AGENCY TO PERFORM THE TESTING PROCEDURES, REQUIRED BY THE MECH-2A THROUGH MECH-11A CERTIFICATE OF ACCEPTANCE FORMS, AS APPLICABLE FOR ALL NEWLY INSTALLED HEATING AND COOLING SYSTEMS. THE CONTRACTOR AND TEST AND BALANCE AGENCY ARE RESPONSIBLE FOR OBTAINING THE CERTIFICATE OF ACCEPTANCE FORMS REQUIRED BY THE IOR. THE TEST AND BALANCE AGENCY SHALL BE WELL VERSED WITH ALL THE REQUIREMENTS OF THESE CERTIFICATE OF ACCEPTANCE FORMS, AND SHALL COORDINATE AND WORK WITH THE EQUIPMENT AND CONTROLS INSTALLERS TO COMPLY WITH THESE REQUIREMENTS IN A TIMELY MANNER WITHIN THE PROJECT SCHEDULE. THE AIR BALANCE CONTRACTOR SHALL BE A MEMBER OF AABC (ASSOCIATED AIR BALANCE COUNCIL).
12. PAINT ALL EXPOSED DUCTWORK, DUCT SUPPORTS, ACCESSORIES, REGISTERS, GRILLES, DIFFUSERS, AND APPURTENANCES, WHETHER OR NOT COLORS ARE DESIGNATED IN SCHEDULES, EXCEPT WHERE A SURFACE OR MATERIAL IS SPECIFICALLY INDICATED NOT TO BE PAINTED OR IS TO REMAIN NATURAL. WHERE AN ITEM OR SURFACE IS NOT SPECIFICALLY MENTIONED, PAINT THE SAME AS SIMILAR ADJACENT MATERIALS OR SURFACES. IF COLOR OR FINISH IS NOT DESIGNATED, THE ARCHITECT WILL SELECT FROM STANDARD COLORS OR FINISHES AVAILABLE. PAINTING INCLUDES FIELD PAINTING EXPOSED BARE AND COVERED PIPES AND DUCTS (INCLUDING COLOR CODING), HANGERS, EXPOSED STEEL AND IRON WORK, AND PRIMED METAL SURFACES OF MECHANICAL EQUIPMENT.
13. PROVIDE ALL LABOR, MATERIAL, INSURANCE, EQUIPMENT, INSTALLATION, CONSTRUCTION TOOLS, TRANSPORTATION, AND OTHER WORK AS REQUIRED. FOR A COMPLETE AND PROPERLY OPERATING MECHANICAL SYSTEM.
14. ALL MATERIALS SHALL BE NEW AND OF THE SAME MANUFACTURER FOR EACH CLASS OR GROUP OF EQUIPMENT. EQUIPMENT SHALL BE LISTED AND APPROVED BY UNDERWRITER'S LABORATORIES, AND SHALL BEAR THE INSPECTION LABEL WHERE SUBJECT TO SUCH APPROVAL. MATERIALS SHALL MEET WITH THE APPROVAL OF THE GOVERNING BODIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY THE LATEST EDITION OF CMC, CBC U.L., SMACNA AND ASHRAE GUIDELINES. INSTALL PER MANUFACTURERS' RECOMMENDATIONS, AND INSTALLATION INSTRUCTIONS.
15. OBTAIN AND PAY FOR ALL NECESSARY BUILDING PERMITS AND VARIANCES. COORDINATE TEMPORARY CONSTRUCTION REQUIREMENTS WITH ALL TRADES PRIOR TO CONSTRUCTION. INCLUDE ALL COSTS IN THE BID.
16. IF THE CONTRACTOR PROPOSES ALTERNATE EQUIPMENT OR MATERIAL, THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL DSA APPROVALS, PAY ALL RELATED FEES AND OBTAIN APPROVAL FROM OWNER & ENGINEER OF RECORD. PROVIDE TITLE-24 COMPLIANCE CERTIFICATION AND ALL ASSOCIATED FEES REQUIRED. COORDINATE SUBMITTED EQUIPMENT WITH OTHER TRADES. INCLUDE IN THE SHOP DRAWINGS THE EQUIPMENT SUBMITTED FOR APPROVAL WITH A DIFFERENT PHYSICAL SIZE OR ARRANGEMENT FROM THAT SHOWN.
17. PROVIDE SHOP DRAWINGS PER PROJECT SCHEDULE, SEE 23 00 00 SPECIFICATIONS FOR REQUIREMENTS. IF SHOP DRAWINGS ARE NOT PROVIDED TO THE ENGINEER FOR REVIEW, AND ANY CONFLICTS OCCUR BETWEEN TRADES, DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK NECESSARY TO RESOLVE THE CONFLICT AND BEAR ALL COSTS INCURRED FOR ALL REVISIONS, AT NO ADDITIONAL COST TO THE DISTRICT. THE DISTRICT AND ENGINEER SHALL BE NOTIFIED IMMEDIATELY PRIOR TO FABRICATION AND INSTALLATION OF ALL WORK THAT CAUSES CONFLICTS BETWEEN TRADES.
18. PROVIDE ALL MANUFACTURER'S PRODUCT DATA CLEARLY INDICATING MODEL NUMBERS, CAPACITIES, CONSTRUCTION, ELECTRICAL INFORMATION, AND OPTIONAL ACCESSORIES, PER PROJECT SCHEDULE AND PRIOR TO THE START OF WORK. THESE SHALL BE REVIEWED BY THE MECHANICAL ENGINEER PRIOR TO PURCHASING.
19. SUBMIT TO THE OWNER ALL BROCHURES, OPERATING MANUALS, CATALOGS, SHOP DRAWINGS, "AS-BUILTS", ETC. AT THE COMPLETION OF THE JOB. PROVIDE THE OWNER WITH COMPLETE MECHANICAL "AS-BUILTS" INDICATING FINAL EQUIPMENT LOCATIONS, DUCTWORK AND PIPE ROUTING, ETC.
20. OBTAIN APPROVAL FROM THE OWNER ON ALL ADDENDA AND CONSTRUCTION CHANGE DOCUMENT (CCD) PRIOR TO DOING THE WORK.
21. INSTALL ALL EQUIPMENT, ACCESSORIES, AND MATERIAL IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS.
22. PROVIDE FIRESTOPPING FOR PIPE AND DUCT PENETRATIONS THROUGH RATED WALLS. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AS NECESSARY PRIOR TO INSTALLATION.
23. ANY MATERIAL EXPOSED WITHIN A PLENUM OR DUCT MUST HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25, AND A SMOKE DEVELOPED RATING OF NOT MORE THAN 50, AND A MOLD/HUMIDITY RESISTANCE PER U.L. 181.
24. ALL EQUIPMENT, DUCTS, PIPING, AND OTHER DEVICES AND MATERIALS OUTSIDE OF THE BUILDING OR OTHERWISE EXPOSED TO THE WEATHER SHALL BE COMPLETELY WEATHERPROOFED.
25. LOCATE ALL EQUIPMENT SUCH THAT CODE REQUIRED ACCESS IS MAINTAINED, INCLUDING N.E.C. REQUIREMENTS. ACCESS PANELS WHERE REQUIRED, SHALL BE COORDINATED WITH ARCHITECT, AND PROVIDED BY FACTORY OR BE FIELD-PROVIDED. FOR ATTIC EQUIPMENT, G.C. TO PROVIDE A CATWALK & LIGHT PER CMC FOR ATTIC EQUIPMENT.
26. FOR INACCESSIBLE AREAS THE CONTRACTOR SHALL PROVIDE ACCESS PANELS FOR ALL DAMPERS, EQUIPMENT, SMOKE DETECTORS, AND CONTROL DEVICES. THESE PANELS SHALL MATCH THE RATING OF THE WALL AND/OR CEILING WHERE THEY ARE LOCATED IN. MINIMUM ACCESS PANEL SIZES SHALL BE AS FOLLOWS:
    1) HAND ACCESS: 12"x12" MIN.
    2) BODY ACCESS: 30"x30" MIN.
27. ALL EQUIPMENT WITH MOVING PARTS SHALL BE PROVIDED WITH FLEXIBLE DUCT AND PIPE CONNECTIONS.
28. LABEL ALL EQUIPMENT AS TO THE SPACE IT SERVES. SEE SPECIFICATIONS FOR IDENTIFICATION STANDARDS. LABEL DUCT SMOKE DETECTOR LOCATIONS (AT CEILING) AS TO THE EQUIPMENT IT SERVES.
29. A/C UNITS PROVIDED WITH ECONOMIZER CYCLE DAMPERS SHALL HAVE OSA DAMPERS SET UP TO CLOSE AUTOMATICALLY ON FAN SHUT DOWN.
30. PROVIDE MANUAL VOLUME DAMPERS AND BACKDRAFT DAMPERS FOR FRESH AIR INTAKES ON ALL AIR HANDLING EQUIPMENT AND EXHAUST FANS SERVING CONDITIONED SPACES. EXCEPTION: EQUIPMENT WITH FACTORY-ECONOMIZERS.
31. DRAWINGS ARE FOR REFERENCE ONLY. CONTRACTOR TO FIELD VERIFY EXISTING CONDITION PRIOR TO BID DATE.
32. OWNER RETAINS SALVAGE RIGHTS, PROVIDE A MINIMUM OF 72 HOURS NOTICE PRIOR TO REMOVAL OF ROOF TOP UNITS AND EXHAUST FANS.
33. PATCH AND SEAL ALL SLAB, ROOF AND WALL OPENINGS WITH LIKE MATERIAL WHERE MECHANICAL EQUIPMENT ONCE PENETRATED.
34. REMOVE EXISTING AND PROVIDE ALL NEW DUCT AND PIPE HANGER SUPPORTS WHERE DUCT AND PIPE IS BEING REPLACED.
35. PROVIDE ALL NEW PIPE SUPPORTS WHERE PIPING IS SCHEDULED TO BE REPLACED.
36. OUTDOOR REFRIGERANT PIPING TO BE INSULATED AND ALUMINUM WRAPPED.
37. CONTRACTOR IS RESPONSIBLE FOR COMPLETE AND OPERABLE SYSTEM.
38. ALL MECHANICAL EQUIPMENTS, PIPES AND DUCTS SHALL BE SUPPORTED AND BRACED PER THE CURRENT CALIFORNIA BUILDING CODE. ALL MECHANICAL COMPONENTS SHALL BE ABLE TO RESIST THE EFFECTS OF SEISMIC FORCES.
39. MECHANICAL WORK SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL CODES AND REGULATIONS.
40. CONTRACTOR SHALL PROTECT EXISTING BUILDING INFRASTRUCTURE DURING CONSTRUCTION FROM OUTDOOR ELEMENT. IF DAMAGED, CONTRACTOR SHALL REPLACE DAMAGED BUILDING COMPONENTS WITH NEW AT NO ADDITIONAL COST TO THE OWNER.
41. ALL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA LOW PRESSURE DUCT CONSTRUCTION STANDARDS.
42. ALL DUCT JOINTS SHALL BE MADE WITH MASTIC SEALANT, SHEET METAL SCREWS AND TAPED AIR TIGHT WITH HARDCAST OR EQUIV., MINIMUM 2-1/2" WIDTH.
43. WHERE BRACING DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT, MECHANICAL ENGINEER AND DSA FIELD ENGINEER.
44. A COPY OF THE GUIDELINES PUBLISHED BY SMACNA AND APPROVED BY DSA SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB AT ALL TIMES.
45. CONTRACTOR SHALL COORDINATE ALL DUCTWORK ROUTING WITH WORK OF OTHER TRADES AND MAKE ANY OFFSET AS REQUIRED TO AVOID CONFLICT WITH PIPING, LIGHT FIXTURES, TRUSSES, ETC.
46. COORDINATE ALL EQUIPMENT VOLTAGES WITH ELECTRICAL PRIOR TO ORDERING ANY EQUIPMENT
47. UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBERS SHALL BE CUT, DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DISTRICT STRUCTURAL ENGINEER FROM THE DIVISION OF THE STATE ARCHITECT.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRIC, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

1. 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.
2. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUND PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTION 1617A.1.24, 1617A.1.25, AND 1617A.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 PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO START OF AND DURING THE HANGING AND BRACING OF DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP ☐ MD ☐ PP ☐ E ☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES & DETAILS.

MP ☒ MD ☒ PP ☐ E ☐ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) # 0203-13.

CAL GREEN NOTES

1. TESTING AND ADJUSTING. TESTING AND ADJUSTING OF SYSTEMS SHALL BE REQUIRED FOR NEW BUILDING LESS THAN 10,000 SQUARE FEET OR NEW SYSTEMS TO SERVE AN ADDITION OR ALTERATION SUBJECT TO SECTION 303.1
2. SYSTEMS. DEVELOP A WRITTEN PLAN OF PROCEDURES FOR TESTING AND ADJUSTING SYSTEMS. SYSTEMS TO BE INCLUDED FOR TESTING AND ADJUSTING SHALL INCLUDE, AS APPLICABLE TO THE PROJECT:
    A. HVAC SYSTEMS AND CONTROLS.
    B. INDOOR AND OUTDOOR LIGHTING AND CONTROLS.
    C. WATER HEATING SYSTEMS.
    D. RENEWABLE ENERGY SYSTEMS.
    E. LANDSCAPE IRRIGATION SYSTEMS.
    F. WATER REUSE SYSTEMS.
3. PROCEDURES. PERFORM TESTING AND ADJUSTING PROCEDURES IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND APPLICABLE STANDARDS ON EACH SYSTEM.
    A. HVAC BALANCING. IN ADDITION TO TESTING AND ADJUSTING, BEFORE A NEW SPACE-CONDITIONING SYSTEM SERVING A BUILDING OR SPACE IS OPERATED FOR NORMAL USE, BALANCE THE SYSTEM IN ACCORDANCE WITH THE PROCEDURES DEFINED BY THE TESTING ADJUSTING AND BALANCING BUREAU NATIONAL STANDARDS; THE NATIONAL ENVIRONMENTAL BALANCING BUREAU PROCEDURAL STANDARDS; ASSOCIATED AIR BALANCE COUNCIL NATIONAL STANDARDS OR AS APPROVED BY THE ENFORCING AGENCY.
4. REPORTING. AFTER COMPLETION OF TESTING, ADJUSTING AND BALANCING, PROVIDE A FINAL REPORT OF TESTING SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES.
5. OPERATION AND MAINTENANCE (O & M) MANUAL. PROVIDE THE BUILDING OWNER OR REPRESENTATIVE WITH DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OF GUARANTIES/WARRANTIES FOR EACH SYSTEM. O & M INSTRUCTIONS SHALL BE CONSISTENT WITH OSHA REQUREMENTS IN CCR, TITLE 8, SECTION 5142, AND OTHER RELATED REGULATIONS.
    A. INSPECTIONS AND REPORTS. INCLUDE A COPY OF ALL INSPECTION VERIFICATIONS AND REPORTS REQUIRED BY THE ENFORCING AGENCY.
6. TEMPORARY VENTILATION. THE PERMANENT HVAC SYSTEM SHALL ONLY BE USED DURING CONSTRUCTION IF NECESSARY TO CONDITION THE BUILDING WITHIN THE REQUIRED TEMPERATURE RANGE FOR MATERIAL AND EQUIPMENT INSTALLATION. IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION, USE RETURN AIR FILTERS WITH A MINIMUM REPORTING VALUE (MERV 13) OF 13, BASED ON ASHRAE 52.2-1999 OR AN AVERAGE EFFICIENCY OF 30 PERCENT BASED ON ASHRAE 52.1-1992. REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY, OR, IF THE BUILDING IS OCCUPIED DURING ALTERATIONS, AT THE CONCLUSION OF CONSTRUCTION.
7. COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION. AT THE TIME OF ROUGH INSTALLATION AND DURING STORAGE ON THE CONSTRUCTION SITE UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATION EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH WRAP, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST, WATER AND DEBRIS WHICH MAY ENTER THE SYSTEM.
8. FILTERS. IN MECHANICALLY VENTILATED BUILDINGS, PROVIDE REGULARLY OCCUPIED AREAS OF THE BUILDING WITH AIR FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR PRIOR TO OCCUPANCY THAT PROVIDE AT LEAST A MINIMUM EFFICIENCY REPORTING VALUE (MERV 13) OF 13. MERV 13 FILTERS SHALL BE INSTALLED PRIOR TO OCCUPANCY AND RECOMMENDATIONS FOR MAINTENANCE WITH FILTERS OF THE SAME VALUE SHALL BE INCLUDED IN THE OPERATION AND MAINTENANCE MANUAL.

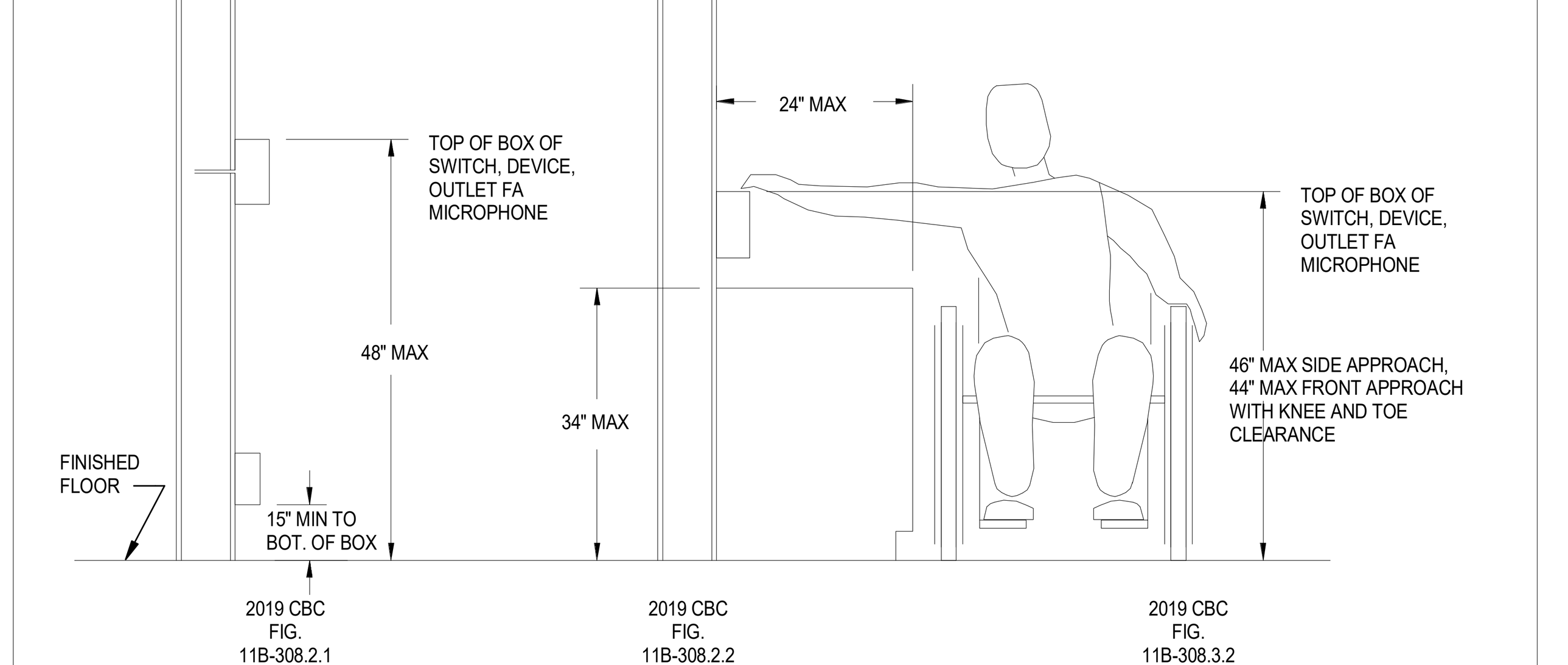
    EXCEPTIONS:
    A. AN ASHRAE 10-PERCENT TO 15-PERCENT EFFICIENCY FILTER SHALL BE PERMITTED FOR AN HVAC UNIT MEETING THE 2019 CALIFORNIA ENERGY CODE HAVING 60,000 BTU/H OR LESS CAPACITY PER FAN COIL, IF THE ENERGY USE OF THE AIR DELIVERY SYSTEM IS 0.4 W/CFM OR LESS AT DESIGN AIR FLOW.
    B. EXISTING MECHANICAL EQUIPMENT.
9. OZONE DEPLETION AND GREENHOUSE GAS REDUCTIONS. INSTALLATIONS OF HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT SHALL COMPLY WITH SECTIONS 5.508.1.1 AND 5.508.1.2.
    A. CHLOROFLOUROCARBONS (CFCS). INSTALL HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT THAT DO NOT CONTAIN CFCS.
    B. HALONS. INSTALL HVAC REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT THAT DO NOT CONTAIN HALONS.
10. ADHESIVES, ADHESIVE BONDING PRIMERS, ADHESIVE PRIMERS, SEALANTS, SEALANT PRIMERS AND CAULKS SHALL COMPLY WITH LOCAL OR REGIONAL AIR POLLUTION CONTROL OR AIR QUALITY MANAGEMENT DISTRICT RULES WHERE APPLICABLE, OR SCAQMD RULE 1168 VOC LIMITS, AS SHOWN IN TABLES 5.504.4.1.

MECHANICAL LEGEND

SYMBOL	DESCRIPTION
1	KEY NOTES
1	DEMOLITION KEY NOTES
01 / M-2	DETAIL DESIGNATION DETAIL NUMBER SHEET NO. WHERE SHOWN
AC / 1	EQUIPMENT DESIGNATION UNIT ABBREVIATION NUMBER
A 10X10-3 120 F/S	GRILLE DESIGNATION NECK SIZE & BLOW FIRE/SMOKE DAMPER WHERE REQ'D CFM
- / -	SECTION CALLOUT
	POINT OF CONNECTION
	POINT OF DISCONNECTION
	NEW LINEWORK
	EXISTING LINEWORK
	DEMOLITION LINEWORK
16"x12"	SHEET METAL DUCT
16"x12"	HIDDEN SHEET METAL DUCT
16"x12"	INTERNALLY INSULATED SHEET METAL DUCT
	DIRECTION OF FLOW
	STANDARD BRANCH FOR SUPPLY AND RETURN
	ROUND ELBOW DOWN
	ROUND ELBOW UP
	RECTANGULAR TO ROUND TRANSITION
8"	FLEXIBLE DUCT
FC	FLEX CONNECTION
BDD	BACK DRAFT DAMPER
FD	FIRE DAMPER
F/S	COMBINATION FIRE AND SMOKE DAMPER
M	MOTORIZED DAMPER
	SUPPLY DIFFUSER: 2-WAY/3-WAY/4-WAY
	GRILLE: RETURN/EXHAUST
	1'x2' RETURN AIR GRILLE
	2'x2' RETURN AIR GRILLE
UP DN	SUPPLY AIR DUCT SECTION
UP DN	RETURN AIR DUCT SECTION
UP DN	EXHAUST AIR DUCT SECTION
	POWER OR GRAVITY ROOF VENTILATOR - EXHAUST
	POWER OR GRAVITY ROOF VENTILATOR - SUPPLY
UC	UNDERCUT DOOR
TG	TRANSFER GRILLE OR LOUVER
DG	DOOR GRILLE OR LOUVER

SYMBOL	DESCRIPTION
D / X	DX COOLING COIL
H / C	HEATING COIL
	DAMPER, OPPOSED BLADE
	DAMPER, PARALLEL BLADE
	FILTER
	HUMIDIFIER
	LOUVER
AD	ACCESS DOOR OR ACCESS PANEL (AP) IN DUCTWORK
1" 2"	STATIC PRESSURE CHANGE TAG
2"	STATIC PRESSURE TAG
	TURNING VANES (RECTANGULAR)
	DRAIN, FUNNEL
	CENTRIFUGAL FAN
	ANALOG SIGNAL
	DIGITAL SIGNAL
	ELECTRIC LEAD
	INSTRUMENT CAPILLARY TUBING
	ELECTRONIC 3-WAY VALVE
	ELECTRONIC 2-WAY VALVE
	DDC INPUT
	DDC OUTPUT
	LOCALLY MOUNTED INSTRUMENT
C02	CARBON DIOXIDE SENSOR
DPS	DIFFERENTIAL PRESSURE SENSOR
FM	FLOW METER
FS	AIRFLOW SENSOR
HS	RELATIVE HUMIDITY SENSOR
TS	TEMPERATURE SENSOR
TS	AVERAGING TEMPERATURE SENSOR
	METAL DUCT
R	EMS CO2 SENSOR
T	THERMOSTAT
PS	PRESSURE SWITCH
SD	SMOKE DETECTOR
SP	STATIC PRESSURE SENSOR
RS	REFRIGERANT SENSOR
D	DEW POINT SENSOR
H	SPACE HUMIDITY SENSOR
S	SWITCH
▲	FIRE WALL PENETRATION
(E)	EXISTING
(N)	NEW

MOUNTING OVER OBSTRUCTION DETAIL



NOTE:
1. THIS DETAIL APPLIES TO MOUNTING OF ANY MECHANICAL AND ELECTRICAL DEVICE WHICH CONTAINS AN OPERABLE PART THAT IS ADJUSTABLE BY THE OCCUPANT. THIS DOES NOT APPLY TO SENSORS OR CONTROLS THAT ARE ONLY ADJUSTABLE THROUGH THE BUILDING AUTOMATION SYSTEM (IE: TEMPERATURE AND HUMIDITY SENSORS).

DRAWING INDEX

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
AAV	AUTOMATIC AIR VENT
ABV	ABOVE
AC	AIR CONDITIONING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AI	ANALOG INPUT
ALUM	ALUMINUM
AO	ANALOG OUTPUT
AP	ACCESS PANEL
B	BOILER
BDD	BACK DRAFT DAMPER
BEL	BELOW
BFC	BELOW FINISHED CEILING
BFP	BACK FLOW PREVENTER
BG	BLAST GATE
BHP	BREAK HORSEPOWER
BLDG	BUILDING
BOB	BOTTOM OF BEAM
BOP	BOTTOM OF PIPE
BSMT	BASEMENT
BTU	BRITISH THERMAL UNIT
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
CL	CENTER LINE
CLG	CEILING
CO	CLEANOUT
COL	COLUMN
CP	CONDENSATE PUMP
CT	COOLING TOWER
CU	CONDENSING UNIT
CV	CONSTANT VOLUME BOX
D	DRAIN
DB	DRY BULB
DEG	DEGREES
DI	DIGITAL INPUT
DIA	DIAMETER
DL	DOOR LOUVER
DN	DOWN
DO	DIGITAL OUTPUT
DP	DIFFERENATIAL PRESSURE
DS	DUCT SILENCER
DX	DIRECT EXPANSION
EA	EACH
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EFF	EFFICIENCY
EGC	EGGCRATE GRILLE
EJ	EXPANSION JOINT
EL	ELEVATION
EQ	EQUAL
ER	EXHAUST REGISTER
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EWC	ELECTRIC WATER COOLER
EXIST / (E)	EXISTING
°F	DEGREES FAHRENHEIT
FA	FREE AREA
FC	FAN COIL UNIT
FD	FIRE DAMPER
FG	FILTER GRILLE
FLA	FULL LOAD AMPS
FLR	FLOOR
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FP	FIRE PUMP
FPI	FINS PER INCH
FPM	FEET PER MINUTE
FS	FLOW SWITCH
FT	FEET / FOOT
FX	FLEXIBLE CONNECTION
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HD	HEAD
HOA	HANDS OFF AUTO
HP	HEAT PUMP
HP	HORSEPOWER
HT	HEIGHT
HV	HEATING AND VENTILATING UNIT
HWC	HOT WATER CONVERTER
HWP	HEATING HOT WATER RETURN
HWR	HOT WATER PUMP
HWS	HEATING HOT WATER SUPPLY
HZ	HERTZ
IC	MOTOR STATUS
ICW	INDUSTRIAL COLD WATER
ID	INSIDE DIAMETER
IN	INCHES
IW	INDIRECT WASTE

ABBREVIATION	DESCRIPTION
KW	KILOWATTS
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LD	LINEAR DIFFUSER
LF	LINEAR FEET
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPS
MH	MANHOLE
MIN	MINIMUM
MOCP	MAXIMUM OVERLOAD CIRCUIT PROTECTION
MOD	MOTOR OPERATED DAMPER
MTD	MOUNTED
MUA	MAKE-UP AIR UNIT
(N)	NEW
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
OAT	OUTSIDE AIR TEMPERATURE
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OD	OUTSIDE DIAMETER
OSA	OUTSIDE AIR
PBD	PARALLEL BLADE DAMPER
PD	PRESSURE DROP
PERF	PERFORATED
PH	PHASE
PR	PRESSURE RELIEF
PS	PRESSURE SWITCH
PSID	POUNDS PER SQUARE INCH DIFFERENTIAL
PSIG	POUNDS PER SQUARE INCH GAUGE
PT	PRESSURE TRANSMITTER
PTAC	PACKAGED TERMINAL AIR CONDITIONER
PVC	POLYVINYL CHLORIDE
RA	RETURN AIR
RAR	RETURN AIR REGISTER
RD	ROOF DRAIN
RF	RETURN FAN
RG	RETURN AIR GRILLE
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RLA	RATED LOAD AMPS
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SAR	SUPPLY AIR REGISTER
SAV	STAGED AIR VOLUME
SD	SMOKE DAMPER
SF	SUPPLY FAN
SI	SPEED INDICATOR
SK	SPEED CONTROL
SMBH	SENSIBLE MBH
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SS	STAINLESS STEEL
STD	STANDARD
TAD	TRANSFER AIR DUCT
TEFC	TOTALLY ENCLOSED FAN COOLED
TEMP	TEMPERATURE
TG	TRANSFER GRILLE
TI	TEMPERATURE INDICATOR
TMBH	TOTAL MBH
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UC	UNDERCUT
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
UTR	UP THROUGH ROOF
V	VOLTS
VA	DAMPER/VALVE ACTUATOR
VAV	VARIABLE AIR VOLUME UNIT
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VP	VELOCITY PRESSURE
VTR	VENT THROUGH ROOF
W/	WITH
W/O	WITHOUT
WB	WET BULB
WC	WATER COLUMN
WG	WATER GAUGE
WT	WEIGHT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121814 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/11/2023

PBK

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CONSULTANT LEAF Engineers
LEAF ENGINEERS
8163 Rochester Avenue, Suite 100
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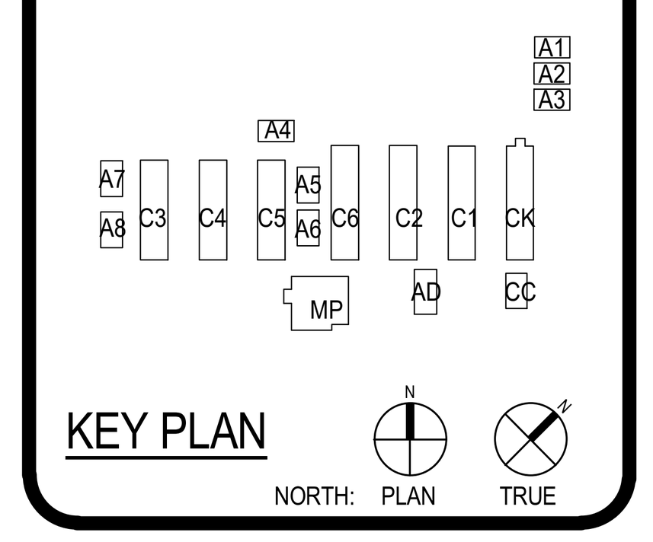
909.987-0909
leafengineers.com

FINLEY ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
13521 Edwards St.,
Westminster, CA 92683

DSA SUBMITTAL

DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43



Consultant

REGISTERED PROFESSIONAL ENGINEER
REX DAVID WANG
No.M36155
Exp.09-30-2024
MECHANICAL
STATE OF CALIFORNIA

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
12-28-2022	220307

REVISIONS

No.	Description	Date

DSA SUBMITTAL

MECHANICAL SYMBOLS, LEGENDS & GENERAL NOTES

M0.00

FILE PATH: Z:\Projects\...
5/15/2023 8:48:02 AM

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Finley Elementary School HVAC Upgrade & Modernization	Report Page: (Page 1 of 21)
Project Address:	13521 Edwards St, Westminster, CA 92683	Date Prepared: 2022-12-19T21:05:17-05:00

This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations.

A. GENERAL INFORMATION

01	Project Location (city)	Westminster	04	Total Conditioned Floor Area	21950
02	Climate Zone	6	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1
☐ Office (B)		☐ Retail (M)		☐ Non-refrigerated Warehouse (S)	
☐ Hotel/ Motel Guest Rooms (R-1)		☒ School (E)		☐ Healthcare Facility (I)	
☐ High-Rise Residential (R-2/R-3)		☐ Relocatable Class Bldg (E)		☒ Other (Write In)	

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations.

01 Air System(s)	02 Wet System Components	03 Dry System Components
☒ Heating Air System	☐ Water Economizer	☒ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ System Piping	☐ Fan Systems
☒ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☒ Ductwork (existing to remain, altered or new)
	☐ Chillers	☒ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

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STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Finley Elementary School HVAC Upgrade & Modernization	Report Page: (Page 2 of 21)
Project Address:	13521 Edwards St, Westminster, CA 92683	Date Prepared: 2022-12-19T21:05:17-05:00

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08	09
System Summary §110.1, §110.2, §140.4	AND	Pumps §140.4(k)	AND	Fans/ Economizers §140.4(c), §140.4(e)	AND	System Controls §110.2, §120.2, §140.4(f)	AND	Ventilation §120.1	AND	Terminal Box Controls §140.4(d)	AND	Distribution §120.3, §140.4(l)	AND	Cooling Towers §110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND	Yes	AND	Yes	AND	Yes	AND		AND	Yes	AND		COMPLIES with Exceptional Conditions
Mandatory Measures Compliance (See Table Q for Details)															COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

The permit applicant has indicated on Table J that ventilation calculations have been attached or included elsewhere on the plans.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

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STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Finley Elementary School HVAC Upgrade & Modernization	Report Page: (Page 3 of 21)
Project Address:	13521 Edwards St, Westminster, CA 92683	Date Prepared: 2022-12-19T21:05:17-05:00

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

This table is used to demonstrate compliance for mechanical equipment with mandatory requirements found in §110.1 and §110.2(a) and prescriptive requirements found in §140.4(a), §140.4(b) and §140.4(k) or §141.0(b)2 for alterations.

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2	Equipment Type per Tables 110.2 / Title 20	Smallest Size Available[1] §140.4(a)	Equipment Sizing per Mechanical Schedule (kBtu/h) §140.4 (a&b)						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
HP/ADM-1	Variable Refrigerant Flow	VRF heat pump, air cooled	Yes	77000	72000	0	69000	72000	30800	47800
AC/C1-1	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (3 phase)	Yes	41910	48000	0	42680	49400	30300	42000
AC/C1-2	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (3 phase)	Yes	41910	48000	0	42680	49400	30300	42000
AC/C1-3	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (3 phase)	Yes	41900	48000	0	42680	49400	30300	42000
AC/C2-1	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (3 phase)	Yes	41900	48000	0	42680	49400	30300	42000
AC/C2-2	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (3 phase)	Yes	41900	48000	0	42680	49400	30300	42000
AC/C2-3	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (3 phase)	Yes	41900	48000	0	42680	49400	30300	42000
AC/C3-1	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (3 phase)	Yes	51690	60000	0	55910	61620	34300	47500
AC/C3-2	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (3 phase)	Yes	51690	60000	0	55910	61620	34300	47500

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STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Finley Elementary School HVAC Upgrade & Modernization	Report Page: (Page 4 of 21)
Project Address:	13521 Edwards St, Westminster, CA 92683	Date Prepared: 2022-12-19T21:05:17-05:00

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters)

01	02	03	04	05	06	07	08	09	10	11
AC/C3-3	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (3 phase)	Yes	41900	48000	0	42680	49400	30300	42000
AC/C4-1	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (3 phase)	Yes	51690	60000	0	55910	61620	34300	47500
AC/C4-2	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (3 phase)	Yes	41900	48000	0	42680	49400	30300	42000
AC/C4-3	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (3 phase)	Yes	41900	48000	0	42680	49400	30300	42000
AC/C5-1	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (3 phase)	Yes	51690	60000	0	55910	61620	34300	47500
AC/C5-2	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (3 phase)	Yes	41900	48000	0	42680	49400	30300	42000
AC/C5-3	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (3 phase)	Yes	41900	48000	0	42680	49400	30300	42000
AC/C6-1	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (3 phase)	Yes	41900	48000	0	42680	49400	30300	42000
AC/C6-2	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (3 phase)	Yes	41900	48000	0	42680	49400	30300	42000
AC/C6-3	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (3 phase)	Yes	41900	48000	0	42680	49400	30300	42000
AC/C6-4	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (3 phase)	Yes	41900	48000	0	42680	49400	30300	42000
AC/CK-1	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (3 phase)	Yes	41900	48000	0	42680	49400	30300	42000
AC/CK-2	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (3 phase)	Yes	58890	72000	0	65590	74960	34700	49500
AC/CK-3	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (3 phase)	Yes	58890	72000	0	65590	74960	34700	49500

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STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Finley Elementary School HVAC Upgrade & Modernization	Report Page: (Page 5 of 21)
Project Address:	13521 Edwards St, Westminster, CA 92683	Date Prepared: 2022-12-19T21:05:17-05:00

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters)

01	02	03	04	05	06	07	08	09	10	11

[1] *FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per §140.4(a). Healthcare facilities are excepted.*
[2] *It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.*
[3] *If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.*
[4] *Authority Having Jurisdiction may ask for load calculations used for compliance per §140.4(b).*

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP))

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Heating Mode				Cooling Mode		
		Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
HP/ADM-1	>=65,000 and <135,000	47 °Fdb/ 43 °Fwb OSA	HSPF	3.3	26.9	EER IEER	11 14.6	12.6 19.5
AC/C1-1	<65,000		HSPF	8	8.1	SEER	14	14.3
AC/C1-2	<65,000		HSPF	8	8.1	SEER	14	14.3
AC/C1-3	<65,000		HSPF	8	8.1	SEER	14	14.3
AC/C2-1	<65,000		HSPF	8	8.1	SEER	14	14.3
AC/C2-2	<65,000		HSPF	8	8.1	SEER	14	14.3
AC/C2-3	<65,000		HSPF	8	8.1	SEER	14	14.3
AC/C3-1	<65,000		HSPF	8	8.1	SEER	14	14.3
AC/C3-2	<65,000		HSPF	8	8.1	SEER	14	14.3
AC/C3-3	<65,000		HSPF	8	8.1	SEER	14	14.3
AC/C4-1	<65,000		HSPF	8	8.1	SEER	14	14.3
AC/C4-2	<65,000		HSPF	8	8.1	SEER	14	14.3
AC/C4-3	<65,000		HSPF	8	8.1	SEER	14	14.3

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STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Finley Elementary School HVAC Upgrade & Modernization	Report Page: (Page 6 of 21)
Project Address:	13521 Edwards St, Westminster, CA 92683	Date Prepared: 2022-12-19T21:05:17-05:00

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP))

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Heating Mode				Cooling Mode		
		Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
AC/C5-1	<65,000		HSPF	8	8.1	SEER	14	14.3
AC/C5-2	<65,000		HSPF	8	8.1	SEER	14	14.3
AC/C5-3	<65,000		HSPF	8	8.1	SEER	14	14.3
AC/C6-1	<65,000		HSPF	8	8.1	SEER	14	14.3
AC/C6-2	<65,000		HSPF	8	8.1	SEER	14	14.3
AC/C6-3	<65,000		HSPF	8	8.1	SEER	14	14.3
AC/C6-4	<65,000		HSPF	8	8.1	SEER	14	14.3
AC/CK-1	<65,000		HSPF	8	8.1	SEER	14	14.3
AC/CK-2	>=65,000 and <135,000	47 °Fdb/ 43 °Fwb OSA	COP	3.3	3.6	EER IEER	10.8 12	11.2 15
AC/CK-3	>=65,000 and <135,000	47 °Fdb/ 43 °Fwb OSA	COP	3.3	3.6	EER IEER	10.8 12	11.2 15

G. PUMPS

This section does not apply to this project.

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STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Finley Elementary School HVAC Upgrade & Modernization	Report Page: (Page 7 of 21)
Project Address:	13521 Edwards St, Westminster, CA 92683	Date Prepared: 2022-12-19T21:05:17-05:00

H. FAN SYSTEMS & AIR ECONOMIZERS

This table is used to demonstrate compliance with prescriptive requirements found in §140.4(c), §140.4(e) and §140.4(m) for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

System Name:	HP/ADM-1	Economizer:[1]	NA: Efficiency per Table 140.4-D	Economizer Controls:		System Fan Type:	Variable Air Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
FC/ADM-1	Supply	1	395	Nameplate HP	0.75	NA	NA
FC/ADM-2	Supply	1	1130	Nameplate HP	0.75	NA	NA
FC/ADM-3	Supply	1	395	Nameplate HP	0.75	NA	NA
FC/ADM-4	Supply	1	395	Nameplate HP	0.75	NA	NA
Total System Design Supply Airflow (CFM):			2315	Total System Design (B)HP:	3	Maximum System Fan Power (B)HP:	

System Name:	AC/C1-1	Economizer:[1]	Differential Enthalpy	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
AC/C1-1	Supply	1	1600	Nameplate HP	0.75	NA	NA
Total System Design Supply Airflow (CFM):			1600	Total System Design (B)HP:	0.75	Maximum System Fan Power (B)HP:	

Registration Number: — Generated Date/Time: — Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003, Schema Version: rev 20200601 — Compliance ID: 80030, Report Generated: 2022-12-19 18:05:18

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Finley Elementary School HVAC Upgrade & Modernization	Report Page: (Page 8 of 21)
Project Address:	13521 Edwards St, Westminster, CA 92683	Date Prepared: 2022-12-19T21:05:17-05:00

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name:	AC/C1-2	Economizer:[1]	Differential Enthalpy	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
AC/C1-2	Supply	1	1600	Nameplate HP	0.75	NA	NA
Total System Design Supply Airflow (CFM):			1600	Total System Design (B)HP:	0.75	Maximum System Fan Power (B)HP:	

System Name:	AC/C1-3	Economizer:[1]	Differential Enthalpy	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
AC/C1-3	Supply	1	1600	Nameplate HP	0.75	NA	NA
Total System Design Supply Airflow (CFM):			1600	Total System Design (B)HP:	0.75	Maximum System Fan Power (B)HP:	

System Name:	AC/C2-1	Economizer:[1]	Differential Enthalpy	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
AC/C2-1	Supply	1	1600	Nameplate HP	0.75	NA	NA
Total System Design Supply Airflow (CFM):			1600	Total System Design (B)HP:	0.75	Maximum System Fan Power (B)HP:	

Registration Number: — Generated Date/Time: — Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003, Schema Version: rev 20200601 — Compliance ID: 80030, Report Generated: 2022-12-19 18:05:18

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Finley Elementary School HVAC Upgrade & Modernization	Report Page: (Page 9 of 21)
Project Address:	13521 Edwards St, Westminster, CA 92683	Date Prepared: 2022-12-19T21:05:17-05:00

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name:	AC/C2-2	Economizer:[1]	Differential Enthalpy	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
AC/C2-2	Supply	1	1600	Nameplate HP	0.75	NA	NA
Total System Design Supply Airflow (CFM):			1600	Total System Design (B)HP:	0.75	Maximum System Fan Power (B)HP:	

System Name:	AC/C2-3	Economizer:[1]	Differential Enthalpy	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
AC/C2-3	Supply	1	1600	Nameplate HP	0.75	NA	NA
Total System Design Supply Airflow (CFM):			1600	Total System Design (B)HP:	0.75	Maximum System Fan Power (B)HP:	

System Name:	AC/C3-1	Economizer:[1]	Differential Enthalpy	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
AC/C3-1	Supply	1	2000	Nameplate HP	0.75	NA	NA
Total System Design Supply Airflow (CFM):			2000	Total System Design (B)HP:	0.75	Maximum System Fan Power (B)HP:	

Registration Number: — Generated Date/Time: — Documentation Software: Energy Code Ace
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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121814 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/11/2023

PBK

ARCHITECT — PBK Architects, Inc.
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FINLEY ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
13521 Edwards St.
Westminster, CA 92683

DSA SUBMITTAL

DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43

A1 A2 A3 A4 A5 A6 A7 A8 C1 C2 C3 C4 C5 CK MP

KEY PLAN
NORTH: PLAN TRUE

Consultant

REGISTERED PROFESSIONAL ENGINEER REX DAVID WARD No.M36155 Exp.09-30-2024 MECHANICAL STATE OF CALIFORNIA

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
12-28-2022	220307

REVISIONS

No.	Description	Date

DSA SUBMITTAL

MECHANICAL TITLE 24

M0.01

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H. FAN SYSTEMS & AIR ECONOMIZERS

System Name:	AC/C3-2	Economizer:[1]	Differential Enthalpy	Economizer Controls:	Designed per §140.4(e) and (m)		System Fan Type:	Constant Volume
01	02	03	04		05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)		HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
							Device	Design Airflow through Device (CFM)
AC/C3-2	Supply	1	2000		Nameplate HP	0.75	NA	NA
Total System Design Supply Airflow (CFM):			2000		Total System Design (B)HP:	0.75	Maximum System Fan Power (B)HP:	

System Name:	AC/C3-3	Economizer:[1]	Differential Enthalpy	Economizer Controls:	Designed per §140.4(e) and (m)		System Fan Type:	Constant Volume
01	02	03	04		05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)		HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
							Device	Design Airflow through Device (CFM)
AC/C3-3	Supply	1	1600		Nameplate HP	0.75	NA	NA
Total System Design Supply Airflow (CFM):			1600		Total System Design (B)HP:	0.75	Maximum System Fan Power (B)HP:	

System Name:	AC/C4-1	Economizer:[1]	Differential Enthalpy	Economizer Controls:	Designed per §140.4(e) and (m)		System Fan Type:	Constant Volume
01	02	03	04		05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)		HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
							Device	Design Airflow through Device (CFM)
AC/C4-1	Supply	1	2000		Nameplate HP	0.75	NA	NA
Total System Design Supply Airflow (CFM):			2000		Total System Design (B)HP:	0.75	Maximum System Fan Power (B)HP:	

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name:	AC/C4-2	Economizer:[1]	Differential Enthalpy	Economizer Controls:	Designed per §140.4(e) and (m)		System Fan Type:	Constant Volume
01	02	03	04		05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)		HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
							Device	Design Airflow through Device (CFM)
AC/C4-2	Supply	1	1600		Nameplate HP	0.75	NA	NA
Total System Design Supply Airflow (CFM):			1600		Total System Design (B)HP:	0.75	Maximum System Fan Power (B)HP:	

System Name:	AC/C4-3	Economizer:[1]	Differential Enthalpy	Economizer Controls:	Designed per §140.4(e) and (m)		System Fan Type:	Constant Volume
01	02	03	04		05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)		HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
							Device	Design Airflow through Device (CFM)
AC/C4-3	Supply	1	1600		Nameplate HP	0.75	NA	NA
Total System Design Supply Airflow (CFM):			1600		Total System Design (B)HP:	0.75	Maximum System Fan Power (B)HP:	

System Name:	AC/C5-1	Economizer:[1]	Differential Enthalpy	Economizer Controls:	Designed per §140.4(e) and (m)		System Fan Type:	Constant Volume
01	02	03	04		05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)		HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
							Device	Design Airflow through Device (CFM)
AC/C5-1	Supply	1	2000		Nameplate HP	0.75	NA	NA
Total System Design Supply Airflow (CFM):			2000		Total System Design (B)HP:	0.75	Maximum System Fan Power (B)HP:	

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name:	AC/C5-2	Economizer:[1]	Differential Enthalpy	Economizer Controls:	Designed per §140.4(e) and (m)		System Fan Type:	Constant Volume
01	02	03	04		05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)		HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
							Device	Design Airflow through Device (CFM)
AC/C5-2	Supply	1	1600		Nameplate HP	0.75	NA	NA
Total System Design Supply Airflow (CFM):			1600		Total System Design (B)HP:	0.75	Maximum System Fan Power (B)HP:	

System Name:	AC/C5-3	Economizer:[1]	Differential Enthalpy	Economizer Controls:	Designed per §140.4(e) and (m)		System Fan Type:	Constant Volume
01	02	03	04		05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)		HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
							Device	Design Airflow through Device (CFM)
AC/C5-3	Supply	1	1600		Nameplate HP	0.75	NA	NA
Total System Design Supply Airflow (CFM):			1600		Total System Design (B)HP:	0.75	Maximum System Fan Power (B)HP:	

System Name:	AC/C6-1	Economizer:[1]	Differential Enthalpy	Economizer Controls:	Designed per §140.4(e) and (m)		System Fan Type:	Constant Volume
01	02	03	04		05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)		HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
							Device	Design Airflow through Device (CFM)
AC/C6-2	Supply	1	1600		Nameplate HP	0.75	NA	NA
Total System Design Supply Airflow (CFM):			1600		Total System Design (B)HP:	0.75	Maximum System Fan Power (B)HP:	

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name:	AC/C6-3	Economizer:[1]	Differential Enthalpy	Economizer Controls:	Designed per §140.4(e) and (m)		System Fan Type:	Constant Volume
01	02	03	04		05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)		HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
							Device	Design Airflow through Device (CFM)
AC/C6-3	Supply	1	1600		Nameplate HP	0.75	NA	NA
Total System Design Supply Airflow (CFM):			1600		Total System Design (B)HP:	0.75	Maximum System Fan Power (B)HP:	

System Name:	AC/C6-4	Economizer:[1]	Differential Enthalpy	Economizer Controls:	Designed per §140.4(e) and (m)		System Fan Type:	Constant Volume
01	02	03	04		05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)		HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
							Device	Design Airflow through Device (CFM)
AC/C6-4	Supply	1	1600		Nameplate HP	0.75	NA	NA
Total System Design Supply Airflow (CFM):			1600		Total System Design (B)HP:	0.75	Maximum System Fan Power (B)HP:	

System Name:	AC/CK-1	Economizer:[1]	Differential Enthalpy	Economizer Controls:	Designed per §140.4(e) and (m)		System Fan Type:	Constant Volume
01	02	03	04		05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)		HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
							Device	Design Airflow through Device (CFM)
AC/CK-1	Supply	1	1600		Nameplate HP	0.75	NA	NA
Total System Design Supply Airflow (CFM):			1600		Total System Design (B)HP:	0.75	Maximum System Fan Power (B)HP:	

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name:	AC/CK-2	Economizer:[1]	Differential Enthalpy	Economizer Controls:	Designed per §140.4(e) and (m)		System Fan Type:	Constant Volume
01	02	03	04		05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)		HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
							Device	Design Airflow through Device (CFM)
AC/CK-2	Supply	1	2400		Nameplate HP	1	NA	NA
Total System Design Supply Airflow (CFM):			2400		Total System Design (B)HP:	1	Maximum System Fan Power (B)HP:	

System Name:	AC/CK-3	Economizer:[1]	Differential Enthalpy	Economizer Controls:	Designed per §140.4(e) and (m)		System Fan Type:	Constant Volume
01	02	03	04		05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)		HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
							Device	Design Airflow through Device (CFM)
AC/CK-3	Supply	1	2400		Nameplate HP	1	NA	NA
Total System Design Supply Airflow (CFM):			2400		Total System Design (B)HP:	1	Maximum System Fan Power (B)HP:	

[1] *FOOTNOTES: Computer room economizers must meet requirements of §140.9(a) and will be documented on the NRCC-PRC-E document.*

[2] *The unit used for HP must be consistent for all fans within a system.*

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in §110.2 and §120.2 and prescriptive controls in §140.4(f) and (n) or requirements in §141.0(b)2E for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats §110.2(b) & (c)[1], §120.2(a)or §141.0(b)2E	Shut-Off Controls §120.2(e)	Isolation Zone Controls §120.2(g)	Demand Response §110.12 and §120.2(b)	Supply Air Temp. Reset §140.4(f)	Window Interlocks per §140.4(n)
HP/ADM-1	Multi-zone w/ DDC to zone	<= 25,000 ft²	EMCS	EMCS	EMCS	EMCS	NA: Alteration	NA: No operable windows
AC/C1-1	Single zone	<= 25,000 ft²	EMCS	EMCS	EMCS	EMCS	NA: Alteration	NA: No operable windows
AC/C1-2	Single zone	<= 25,000 ft²	EMCS	EMCS	EMCS	EMCS	NA: Alteration	NA: No operable windows
AC/C1-3	Single zone	<= 25,000 ft²	EMCS	EMCS	EMCS	EMCS	NA: Alteration	NA: No operable windows
AC/C2-1	Single zone	<= 25,000 ft²	EMCS	EMCS	EMCS	EMCS	NA: Alteration	NA: No operable windows
AC/C2-2	Single zone	<= 25,000 ft²	EMCS	EMCS	EMCS	EMCS	NA: Alteration	NA: No operable windows
AC/C2-3	Single zone	<= 25,000 ft²	EMCS	EMCS	EMCS	EMCS	NA: Alteration	NA: No operable windows
AC/C3-1	Single zone	<= 25,000 ft²	EMCS	EMCS	EMCS	EMCS	NA: Alteration	NA: No operable windows
AC/C3-2	Single zone	<= 25,000 ft²	EMCS	EMCS	EMCS	EMCS	NA: Alteration	NA: No operable windows
AC/C3-3	Single zone	<= 25,000 ft²	EMCS	EMCS	EMCS	EMCS	NA: Alteration	NA: No operable windows
AC/C4-1	Single zone	<= 25,000 ft²	EMCS	EMCS	EMCS	EMCS	NA: Alteration	NA: No operable windows

I. SYSTEM CONTROLS

AC/C4-2	Single zone	<= 25,000 ft²	EMCS	EMCS	EMCS	EMCS	NA: Alteration	NA: No operable windows
AC/C4-3	Single zone	<= 25,000 ft²	EMCS	EMCS	EMCS	EMCS	NA: Alteration	NA: No operable windows
AC/C5-1	Single zone	<= 25,000 ft²	EMCS	EMCS	EMCS	EMCS	NA: Alteration	NA: No operable windows
AC/C5-2	Single zone	<= 25,000 ft²	EMCS	EMCS	EMCS	EMCS	NA: Alteration	NA: No operable windows
AC/C5-3	Single zone	<= 25,000 ft²	EMCS	EMCS	EMCS	EMCS	NA: Alteration	NA: No operable windows
AC/C6-1	Single zone	<= 25,000 ft²	EMCS	EMCS	EMCS	EMCS	NA: Alteration	NA: No operable windows
AC/C6-2	Single zone	<= 25,000 ft²	EMCS	EMCS	EMCS	EMCS	NA: Alteration	NA: No operable windows
AC/C6-3	Single zone	<= 25,000 ft²	EMCS	EMCS	EMCS	EMCS	NA: Alteration	NA: No operable windows
AC/C6-4	Single zone	<= 25,000 ft²	EMCS	EMCS	EMCS	EMCS	NA: Alteration	NA: No operable windows
AC/CK-1	Single zone	<= 25,000 ft²	EMCS	EMCS	EMCS	EMCS	NA: Alteration	NA: No operable windows
AC/CK-2	Single zone	<= 25,000 ft²	EMCS	EMCS	EMCS	EMCS	NA: Alteration	NA: No operable windows
AC/CK-3	Single zone	<= 25,000 ft²	EMCS	EMCS	EMCS	EMCS	NA: Alteration	NA: No operable windows

[1] *FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.*

*Notes: Controls with a * require a note in the space below explaining how compliance is achieved. EX: system 1: SA Temp Reset: Exempt because zones compliant with §140.4(d) ; EXCEPTION 1 to §140.4(f)

J. VENTILATION AND INDOOR AIR QUALITY

This table is used to demonstrate compliance with mandatory ventilation requirements in §120.1 and §120.2(e)3B for all nonresidential, high-rise residential and hotel/motel occupancies. For alterations, only ventialtion systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet.

01	☒	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
02	☐	Check this box if the project included Nonresidential or Hotel/Motel spaces
	☐	Check this box if the project included new or altered high-rise residential dwelling units.
03	☐	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per §120.1(c)2.

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This table is used to show compliance with mandatory pipe insulation requirements found in §120.3 and prescriptive requirements found in §140.4(l) for duct leakage testing.

Duct Leakage Sealing				
The answers to the questions below apply to the following duct systems:		Supply	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities		
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.		
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.		
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:		
		☐ Outdoors		
		☐ In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces		
		☐ In an unconditioned crawl space		
		☐ In other unconditioned spaces		
15	No	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.		
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.		
17		Duct system shall be sealed in acordance with the California Mechanical Code		

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title
NRCI-MCH-01-E - Must be submitted for all buildings

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121814 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/11/2023

PBK

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FINLEY ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
13521 Edwards St.
Westminster, CA 92683

DSA SUBMITTAL

DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43

WESTMINSTER SCHOOL DISTRICT

A1 A2 A3 A4 A7 A8 C3 C4 C5 A6 A5 C6 C2 C1 CK A9 C7 MP

KEY PLAN
NORTH: PLAN TRUE

9;<=>?>

REGISTERED PROFESSIONAL ENGINEER REX DAVID WARNER No.M36155 Exp.09-30-2024 STATE OF CALIFORNIA

@ABC>5A>

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
12-28-2022	220307

REVISIONS

No.	Description	Date

DSA SUBMITTAL

MECHANICAL TITLE 24

M0.02

/0 12,0333

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-MCH-E**
Project Name:	Finley Elementary School HVAC Upgrade & Modernization	**Report Page:**	**(Page 19 of 21)**
Project Address:	13521 Edwards St, Westminster, CA 92683	**Date Prepared:**	2022-12-19T21:05:17-05:00

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Form/Title	Systems/Spaces To Be Field Verified
NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.	AC/C1-1; AC/C1-2; AC/C1-3; AC/C2-1; AC/C2-2; AC/C2-3; AC/C3-1; AC/C3-2; AC/C3-3; AC/C4-1; AC/C4-2; AC/C4-3; AC/C5-1; AC/C5-2; AC/C5-3; AC/C6-1; AC/C6-3; AC/C6-4; AC/CK-1; AC/CK-2; AC/CK-3
NRCA-MCH-05-A - Air Economizer Controls	AC/C1-1; AC/C1-2; AC/C1-3; AC/C2-1; AC/C2-2; AC/C2-3; AC/C3-1; AC/C3-2; AC/C3-3; AC/C4-1; AC/C4-2; AC/C4-3; AC/C5-1; AC/C5-2; AC/C5-3; AC/C6-1; AC/C6-3; AC/C6-4; AC/CK-1; AC/CK-2; AC/CK-3
NRCA-MCH-07-A Supply Fan Variable Flow Controls	FC/ADM-1; FC/ADM-2; FC/ADM-3; FC/ADM-4
NRCA-MCH-11-A Automatic Demand Shed Controls	HP/ADM-1
NRCA-MCH-18-A Energy Management Control Systems	HP/ADM-1; AC/C1-1; AC/C1-2; AC/C1-3; AC/C2-1; AC/C2-2; AC/C2-3; AC/C3-1; AC/C3-2; AC/C3-3; AC/C4-1; AC/C4-2; AC/C4-3; AC/C5-1; AC/C5-2; AC/C5-3; AC/C6-1; AC/C6-2; AC/C6-3; AC/C6-4; AC/CK-1; AC/CK-2; AC/CK-3

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-MCH-E**
Project Name:	Finley Elementary School HVAC Upgrade & Modernization	**Report Page:**	**(Page 20 of 21)**
Project Address:	13521 Edwards St, Westminster, CA 92683	**Date Prepared:**	2022-12-19T21:05:17-05:00

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	No	
03		**04**
Mandatory Measure		**Plan sheet or construction document location**
Heating Equipment Efficiency per §110.1		M5.01
Cooling Equipment Efficiency per §110.1		M5.01
Furnace Standby Loss Control per §110.2(d)		N/A
Duct Insulation per §120.4		M0.00
Heat Pump with Supplemental electric Resistance Heater Controls per §110.2(b)		M0.00
The air duct and plenum system is designed per §120.4(a) -(f)		Yes
Kitchen range hoods shall be rated for sound in accordance with Section 7.2 of ASHRAE 62.2		N/A

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-MCH-E**
Project Name:	Finley Elementary School HVAC Upgrade & Modernization	**Report Page:**	**(Page 21 of 21)**
Project Address:	13521 Edwards St, Westminster, CA 92683	**Date Prepared:**	2022-12-19T21:05:17-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Maher Dandachi	Documentation Author Signature:
Company: LEAF Engineers	Signature Date: 12/19/2022
Address: 8163 Rochester Avenue	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Rancho Cucamonga, CA 91730	Phone: 909.987.0909

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: rex wang	Responsible Designer Signature:
Company: LEAF Engineers	Date Signed: 12/19/2022
Address: 8163 Rochester Avenue	License: M36155
City/State/Zip: Rancho Cucamonga, CA 91730	Phone: 909.987.0909

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121814 INC:
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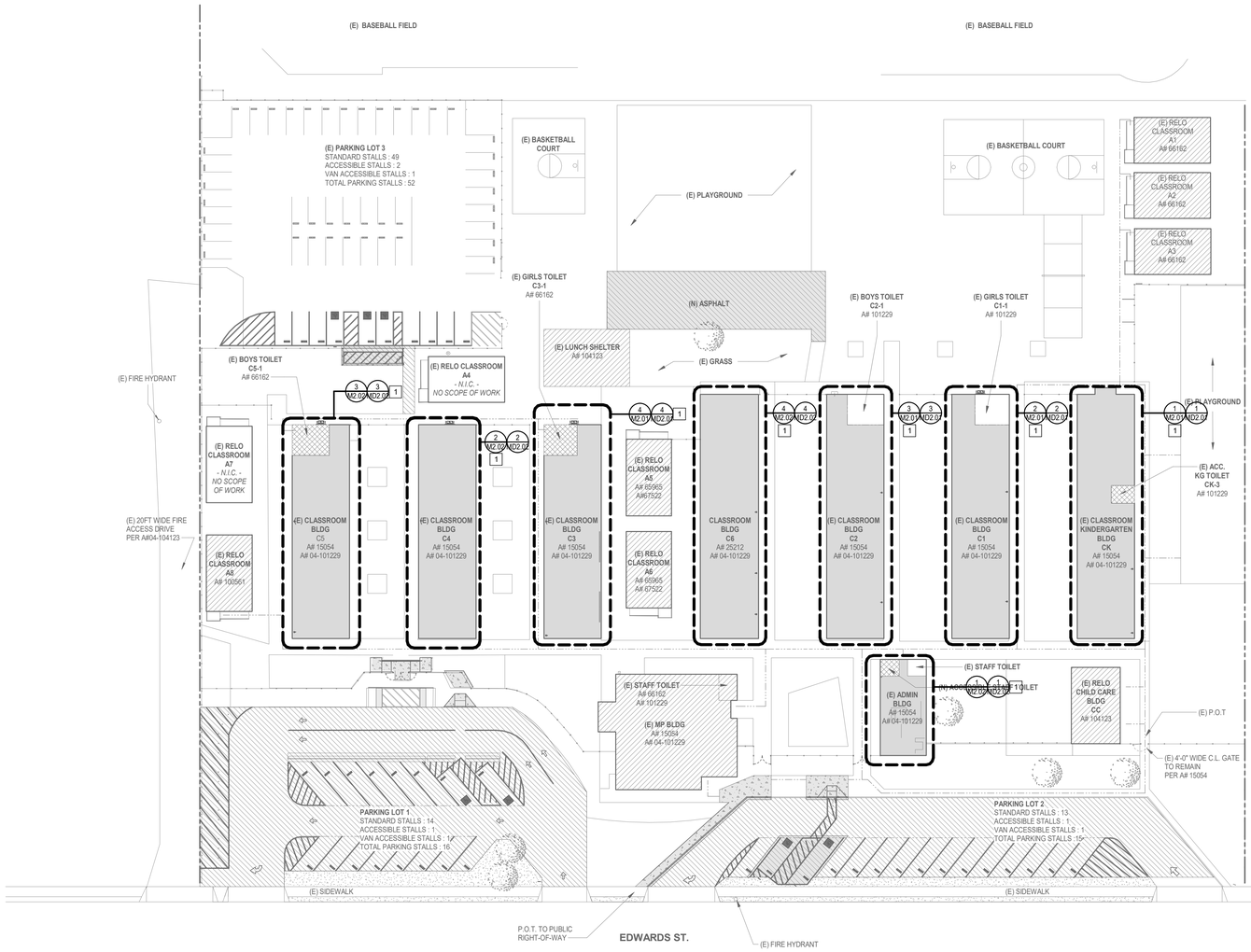
DATE: 08/11/2023

PBK

REGISTERED PROFESSIONAL ENGINEER
REX DAVID WANG
No.M36155
Exp.09-30-2024
STATE OF CALIFORNIA

M1.01 - MECHANICAL SITE PLAN

0" 1"



KEY NOTES

1 SCOPE OF WORK.

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PBK

ARCHITECT PBK Architects, Inc.
COSTA MESA
600 Anton Boulevard, Suite 1375
Costa Mesa, CA 92626
P 949-548-5000
PBK.com

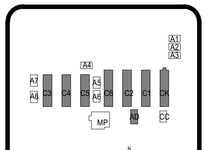
CONSULTANT LEAF Engineers
LEAF ENGINEERS
8163 Rochester Avenue, Suite 100
Rancho Cucamonga, CA 91730
909.987-0909
leafengineers.com

FINLEY ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
13521 Edwards St.
Westminster, CA 92683

DSA SUBMITTAL

DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43



KEY PLAN
NORTH: PLAN TRUE

Consultant

REGISTERED PROFESSIONAL ENGINEER
RAY DAVID IRANO
No.M36155
Exp.09-30-2024
STATE OF CALIFORNIA

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
12-28-2022	220307

REVISIONS

No.	Description	Date

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MECHANICAL SITE PLAN

M1.01

1 MECHANICAL SITE PLAN
1" = 30'-0"

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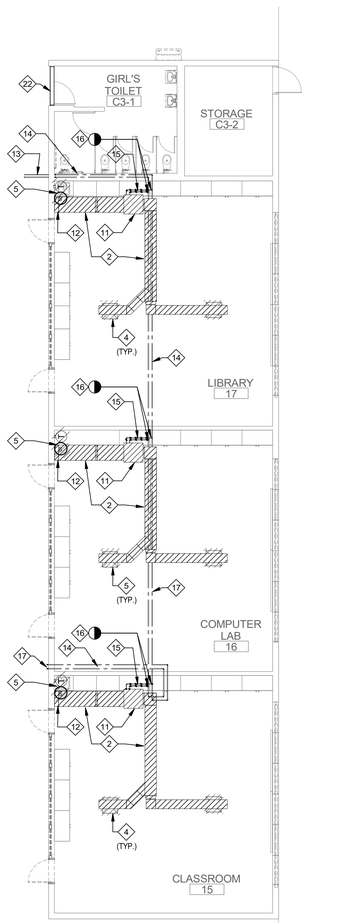
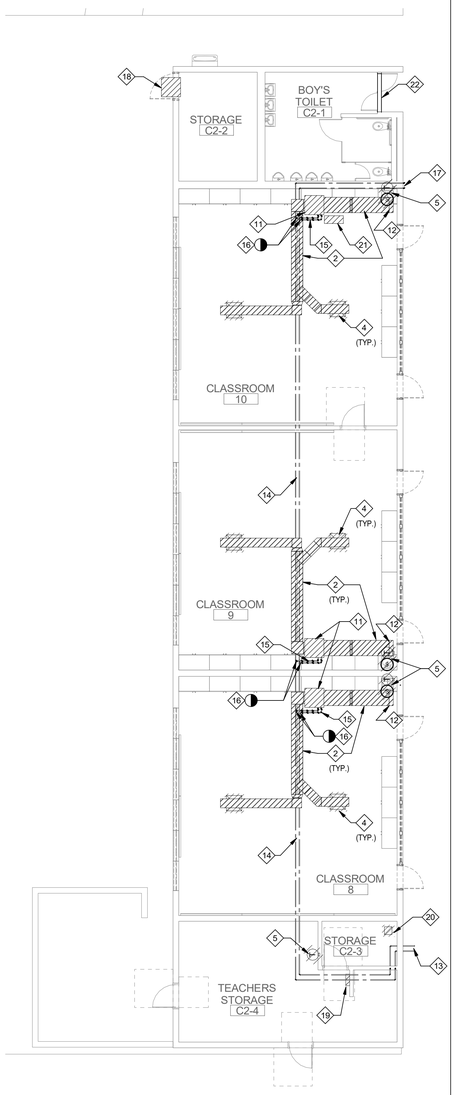
0" 1"



4 FLOOR PLAN - BUILDING C3 - DEMO
1/8" = 1'-0"



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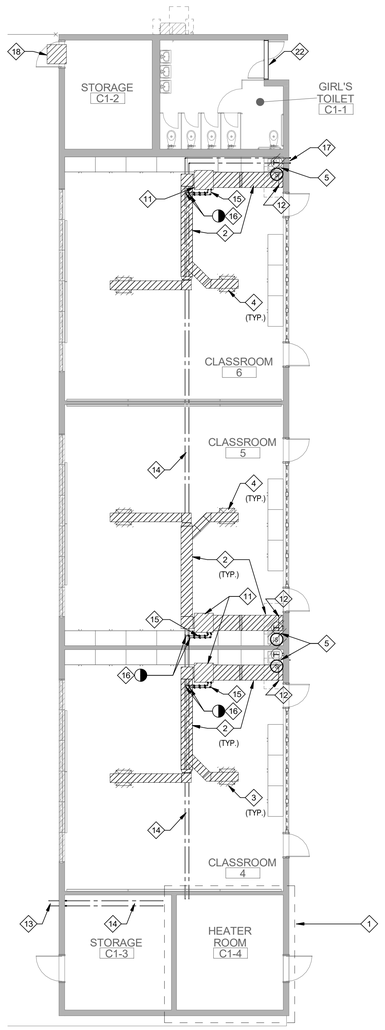
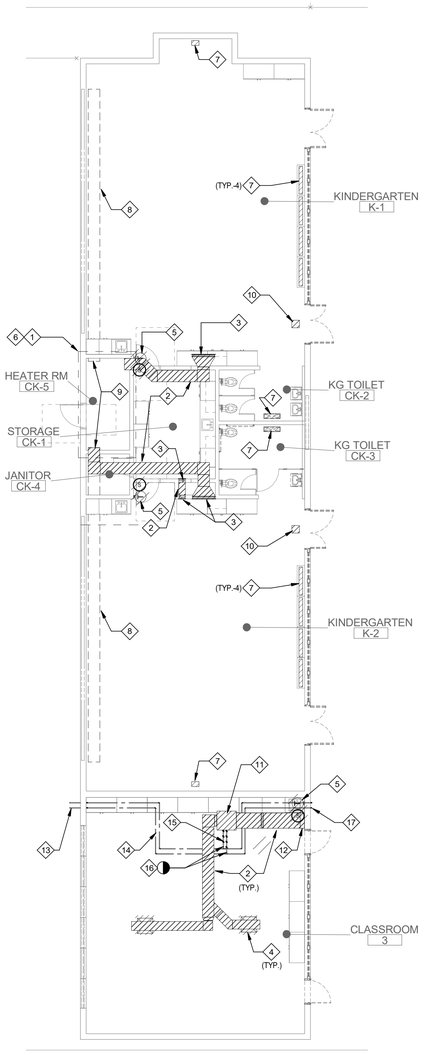
1/8" = 1'-0"



2 FLOOR PLAN - BUILDING C1 - DEMO
1/8" = 1'-0"



1 FLOOR PLAN - BUILDING CK - DEMO
1/8" = 1'-0"

DEMOLITION GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND SIZES OF ALL EXISTING EQUIPMENT, DUCTWORK, LOUVERS, ACCESSORIES, ETC. BEFORE COMMENCING WORK.
2. ALL EXISTING DUCT, DIFFUSER, REGISTER, THERMOSTAT, DAMPER, ETC. TO BE DEMOLISHED WITH ALL ASSOCIATED ACCESSORIES.
3. CONTRACTOR SHALL REMOVE ALL EXISTING CEILING FANS AND TURN THEM TO THE SCHOOL DISTRICT.

DEMOLITION KEY NOTES

1. ALL EXISITNG MECHANICAL EQUIPMENT, HOUSEKEEPING PAD, DUCT, GAS FLUE DUCT AND UTR, DAMPERS, LOUVERS, PIPE, ETC. TO BE DEMOLISHED WITH ALL ASSOCIATED ACCESSORIES, ETC. PATCH, REPAIR, AND PAINT ALL EXISTING SURFACES (WALLS, FLOOR, ROOF, ETC.) TO MATCH EXISTING.
2. (E) DUCT TO BE DEMOLISHED WITH ALL ASSOCIATED DAMPER, ACCESSORIES, ETC.
3. (E) SIDE WALL GRILLE TO BE DEMOLISHED WITH ALL ASSOCIATED ACCESSORIES, ETC.
4. (E) DIFFUSER/REGISTER TO BE DEMOLISHED WITH ALL ASSOCIATED ACCESSORIES, ETC.
5. (E) THERMOSTAT/SENSOR TO BE DEMOLISHED WITH ALL ASSOCIATED WIRING, ACCESSORIES, ETC. PATCH, REPAIR, AND PAINT EXISTING SURFACES TO MATCH EXISTING.
6. REFER TO PLUMBING DRAWINGS FOR EXISTING WATER HEATER AND PIPING.
7. (E) FLOOR GRILLE TO BE DEMOLISHED. DISCONNECT (E) DUCT BELOW FLOOR AND CAP. PATCH, REPAIR AND PAINT EXISTING SURFACE TO MATCH EXISTING.
8. (E) UNDERGROUND DUCT TO BE ABONDONED.
9. DISCONNECT (E) DUCT BELOW GROUND AND CAP. PATCH, REPAIR AND PAINT EXISTING SURFACE TO MATCH EXISTING.
10. (E) FLY FAN TO BE DEMOLISHED WITH ALL ASSOCIATED ACCESSORIES, ETC. PATCH, REPAIR AND PAINT EXISTING SURFACE TO MATCH EXISTING.
11. (E) HEATING UNIT TO BE DEMOLISHED WITH ALL ASSOCIATED CUCT, WIRING, ACCESSORIES, ETC. PATCH, REPAIR AND PAINT EXISTING SURFACE TO MATCH EXISTING.
12. (E) SIDE WALL GRILLE (ABOVE FLOOR) TO BE DEMOLISHED WITH ALL ASSOCIATED ACCESSORIES, ETC. PATCH, REPAIR AND PAINT EXISTING SURFACE TO MATCH EXISTING.
13. (E) UNDERGROUND HWS&R FROM BUILDING ADJACENT BUILDING TO REMAIN. REFER TO AS-BUILT DRAWINGS FOR CONTINUATION.
14. (E) HWS&R ABOVE CEILING TO REMAIN.
15. (E) HWS&R ABOVE CEILING TO BE DEMOLISHED.
16. DISCONNECT (E) HWS&R PIPES AT POINT OF DISCONNECT, AS SHOWN, AND CAP.
17. (E) HWS&R PIPES DN. TO REMAIN. REFER TO AS-BUILT DRAWINGS FOR CONTINUATION.
18. (E) WINDOW TYPE (ABOVE DOOR) A/C UNIT TO DEMOLISHED WITH ALL ASSOCIATED WIRING, HANGER, ACCESSORIES, ETC. PATCH, REPAIR AND PAINT SURFACES TO MATCH EXISTING, REFER TO ARCHITECTURAL DRAWINGS..
19. (E) WALL HEATER TO BE DEMOLISHED WITH ALL ASSOCIATED WIRING, PIPE, ACCESSORIES, ETC. DISCONNECT (E) GAS PIPE INSIDE WALL AND CAP. PATCH, REPAIR AND PAINT EXISTING SURFACE TO MATCH EXISTING.
20. (E) DIFFUSER/GRILLE TO BE DEMOLISHED WITH ALL ASSOCIATED DUCT, DAMPER, ACCESSORIES, ETC. ALL EXISTING DUCTS CONNECTED TO THIS DIFFUSER/REGISTER TO BE DEMOLISHED. PATCH, REPAIR AND PAINT EXISTING SURFACE TO MATCH EXISTING.
21. (E) SPLITY SYSTEM INDOOR UNIT AND OUDOOR UNIT (ON ROOF) TO BE DEMOLISHED WITH ALL ASSOCIATED PIPING, WIRING, DISCONNECT, CONDUIT, CURB, ASCCESSORIES, ETC. PATCH REPAIR AND PAINT ALL EXISTING SURFACES (WALLS, FLOOR, ROOF, ETC.) TO MATCH EXISTING.
22. (E) LOUVER (ABOVE DOOR) TO REMAIN.

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FINLEY ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
13521 Edwards St.
Westminster, CA 92683

DSA SUBMITTAL

DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43

KEY PLAN
NORTH: PLAN TRUE

Consultant

REGISTERED PROFESSIONAL ENGINEER REX DAVID BAND No.M36159 Exp.09-30-2024 CIVIL STATE OF CALIFORNIA

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
12-28-2022	220307

REVISIONS

No.	Description	Date

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MECHANICAL DEMOLITION FLOOR PLANS

MD2.01

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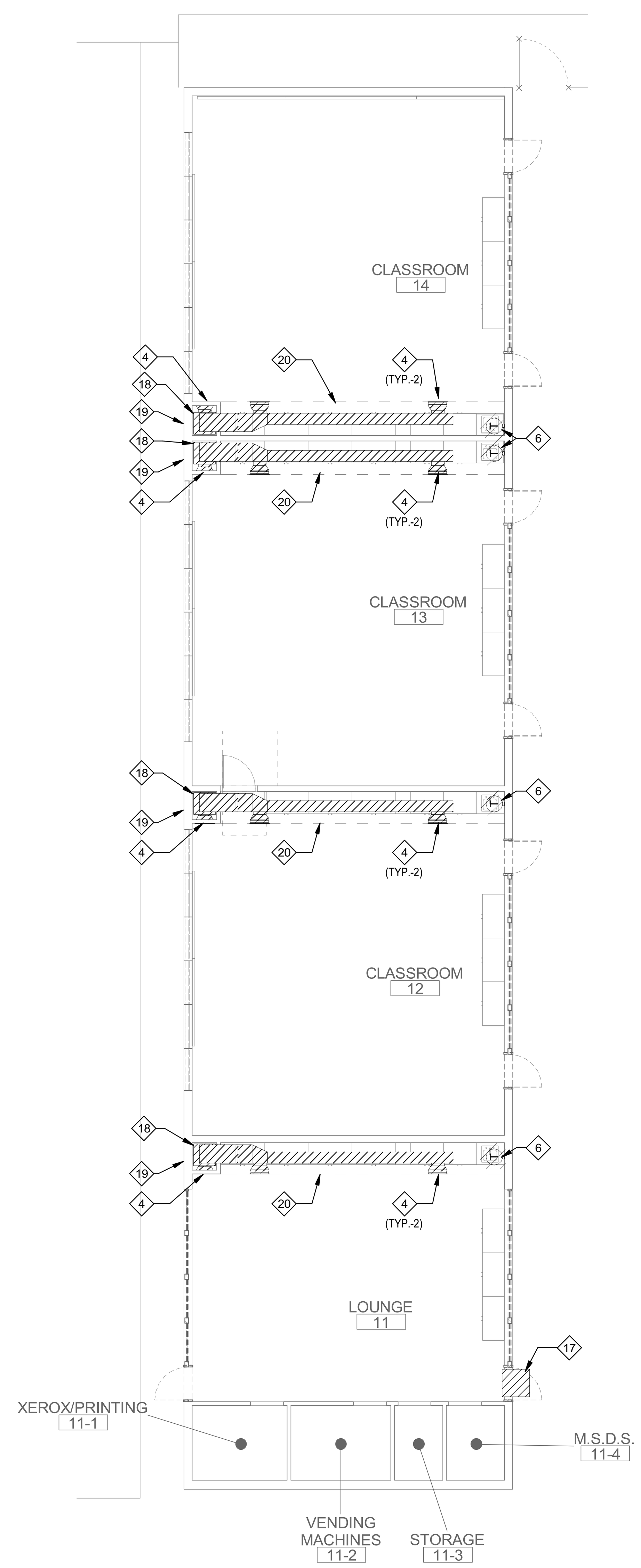
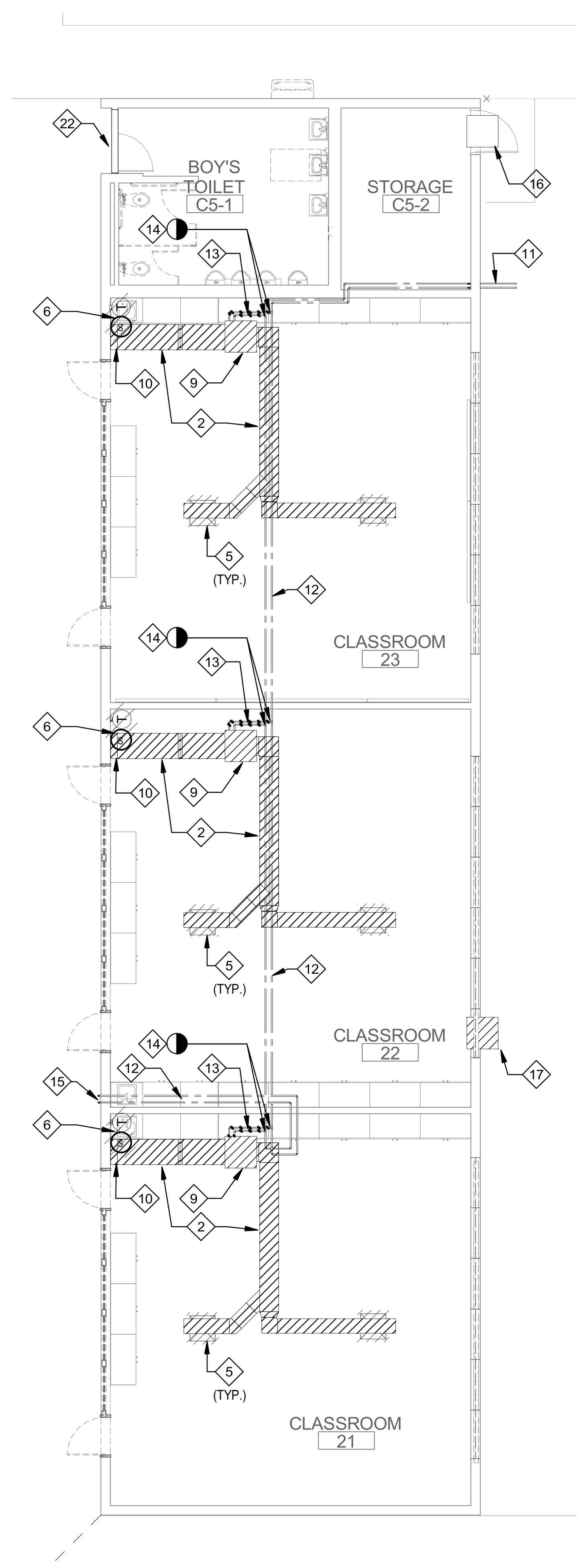
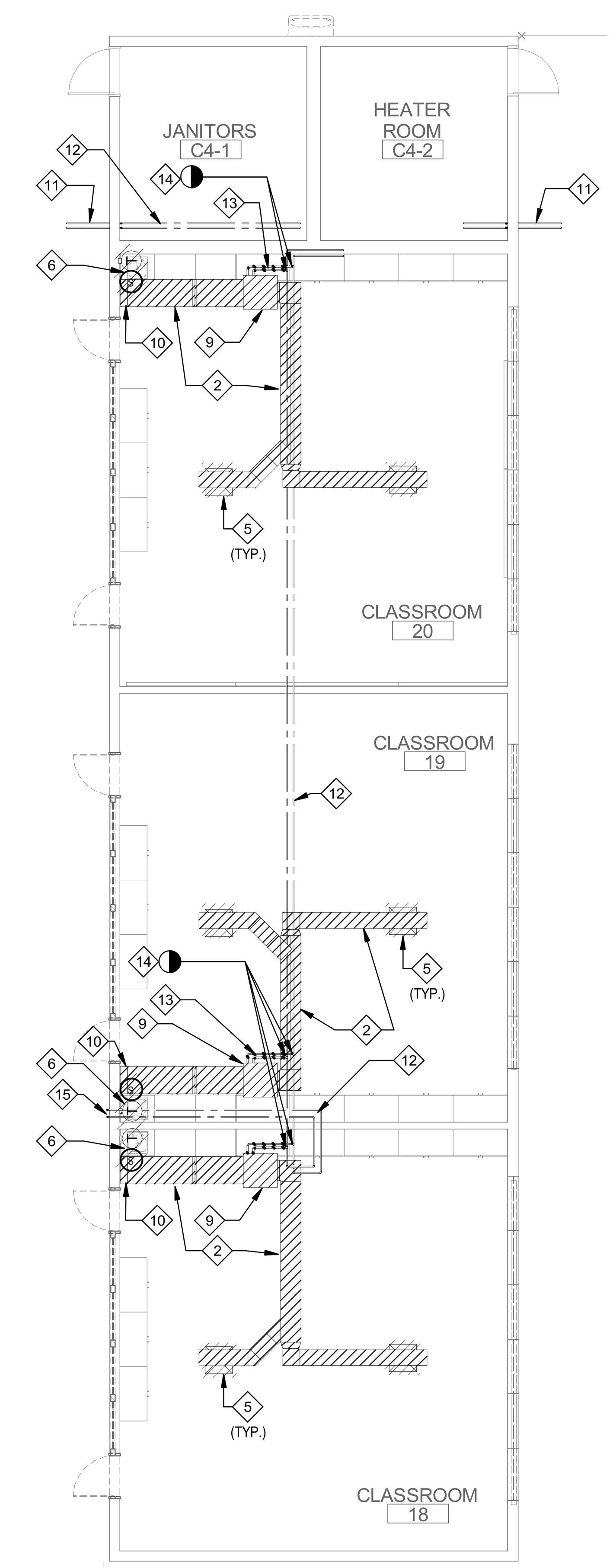
MD2.02 - MECHANICAL DEMOLITION FLOOR PLANS



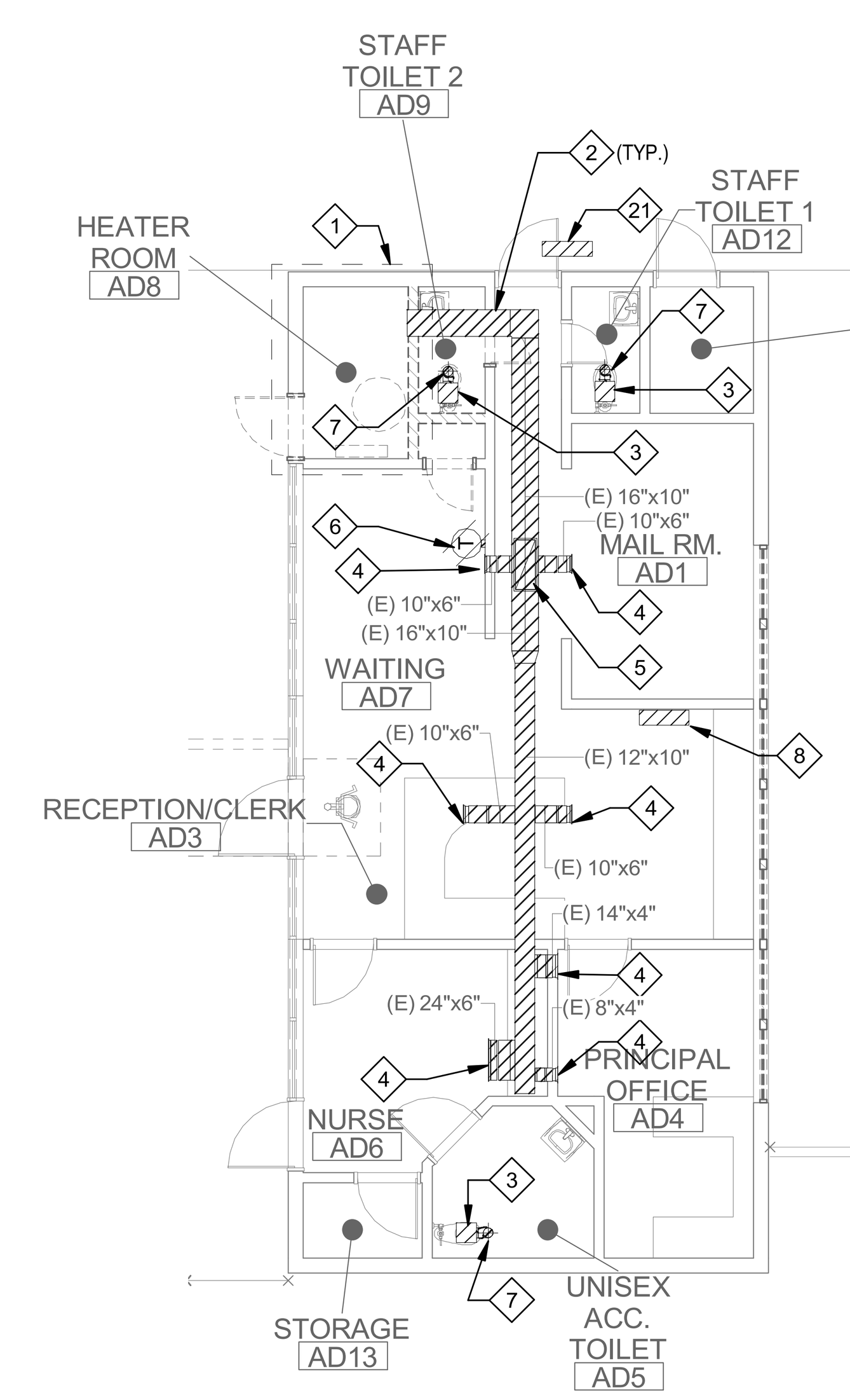
4 FLOOR PLAN - BUILDING C6 - DEMO
1/8" = 1'-0"



3 FLOOR PLAN - BUILDING C5 - DEMO
1/8" = 1'-0"



2 FLOOR PLAN - BUILDING C4 - DEMO
1/8" = 1'-0"



1 FLOOR PLAN - ADMIN BLDG - DEMO
1/8" = 1'-0"

DEMOLITION GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND SIZES OF ALL EXISTING EQUIPMENT, DUCTWORK, LOUVERS, ACCESSORIES, ETC. BEFORE COMMENCING WORK.
2. ALL EXISTING DUCT, DIFFUSER, REGISTER, THERMOSTAT, DAMPER, ETC. TO BE DEMOLISHED WITH ALL ASSOCIATED ACCESSORIES.
3. CONTRACTOR SHALL REMOVE ALL EXISTING CEILING FANS AND TURN THEM TO THE SCHOOL DISTRICT.

DEMOLITION KEY NOTES

1. ALL EXISITNG MECHANICAL EQUIPMENT, HOUSEKEEPING PAD, DUCT, DAMPERS, LOUVERS, PIPE, ETC. TO BE DEMOLISHED WITH ALL ASSOCIATED ACCESSORIES, ETC. PATCH, REPAIR, AND PAINT EXISTING SURFACES TO MATCH EXISTING.
2. (E) DUCT TO BE DEMOLISHED WITH ALL ASSOCIATED DAMPER, ACCESSORIES, ETC.
3. (E) CEILING MOUNTED EXHAUST FAN TO BE DEMOLISHED WITH ALL ASSOCIATED DUCT, WIRING, DAMPER, ACCESSORIES, ETC. PATCH, REPAIR, AND PAINT EXISTING SURFACES TO MATCH EXISTING.
4. (E) SIDE WALL GRILLE TO BE DEMOLISHED WITH ALL ASSOCIATED ACCESSORIES, ETC.
5. (E) DIFFUSER/REGISTER TO BE DEMOLISHED WITH ALL ASSOCIATED ACCESSORIES, ETC.
6. (E) THERMOSTAT/SENSOR TO BE DEMOLISHED WITH ALL ASSOCIATED WIRING, ACCESSORIES, ETC. PATCH, REPAIR, AND PAINT EXISTING SURFACES TO MATCH EXISTING.
7. (E) EA DUCT UTR TO BE DEMOLISHED WITH ALL ASSOCIATED DAMPER, ACCESSOIRES, ETC.
8. E) SPLIT SYSTEM WALL MOUNTED FAN COIL UNIT TO BE DEMOLISHIED WITH ALL ASSOCIATED WIRING, PIPING, T'STAT, ACCESSORIES, ETC. PATCH, REPAIR, AND PAINT EXISTING SURFACE TO MATCH EXISTING.
9. (E) HEATING UNIT TO BE DEMOLISHED WITH ALL ASSOCIATED CUCT, WIRING, ACCESSORIES, ETC. PATCH, REPAIR AND PAINT EXISTING SURFACE TO MATCH EXISTING.
10. (E) SIDE WALL GRILLE (ABOVE FLOOR) TO BE DEMOLISHED WITH ALL ASSOCIATED ACCESSORIES, ETC. PATCH, REPAIR AND PAINT EXISTING SURFACE TO MATCH EXISTING.
11. (E) UNDERGROUND HWS&R FROM BUILDING ADJACENT BUILDING TO REMAIN. REFER TO AS-BUILT DRAWINGS FOR CONTINUATION.
12. (E) HWS&R ABOVE CEILING TO REMAIN.
13. (E) HWS&R ABOVE CEILING TO BE DEMOLISHED.
14. DISCONNECT (E) HWS&R PIPES AT POINT OF DISCONNECT, AS SHOWN, AND CAP.
15. (E) HWS&R PIPES DN. TO REMAIN. REFER TO AS-BUILT DRAWINGS FOR CONTINUATION.
16. (E) WINDOW TYPE (ABOVE DOOR) A/C UNIT TO REMAIN.
17. (E) WINDOW TYPE (ABOVE DOOR) A/C UNIT TO BE DEMOLISHED WITH ALL ASSOCIATED WIRING, ACCESSORIES, ETC. PATCH, REPAIR, AND PAINT EXISTING SURFACE TO MATCH EXISTING.
18. (E) FURNACE (INSIDE CLOSET) TO BE DEMOLISHED WITH ALL ASSOCIATED PLENUM, DUCT, WIRING, DAMPER, GAS FLUE DUCT, ACCESSORIES, ETC. PATCH, REPAIR, AND PAINT EXISTING SURFACE TO MATCH EXISTING.
19. (E) OSA LOUVER TO BE DEMOLISHED WITH ALL ASSOCIATED DUCT, DAMPER, ACCESSOIES, ETC. PATCH, REPAIR, AND PAINT EXISTING SURFACE TO MATCH EXISTING.
20. (E) SOFFIT, SEE ARCHITECTURAL DRAWING.
21. (E) SPLIT SYSTEM OUTDOOR UNT (ON OVERHANG) TO BE DEMOLISHED WITH ALL ASSOCIATED PIPING, WIRING, DISCONNECT, CONDUIT, CURB, ACCESSORIES , ETC. PATCH, REPAIR AND PAINT EXISTING SURFACE TO MATCH EXISTING.
22. (E) LOUVER (ABOVE DOOR) TO REMAIN.

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DIV. OF THE STATE ARCHITECT
APP: 04-121814 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/11/2023

ARCHITECT PBK Architects, Inc.
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CONSULTANT LEAF Engineers
LEAF ENGINEERS
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Rancho Cucamonga, CA 91730
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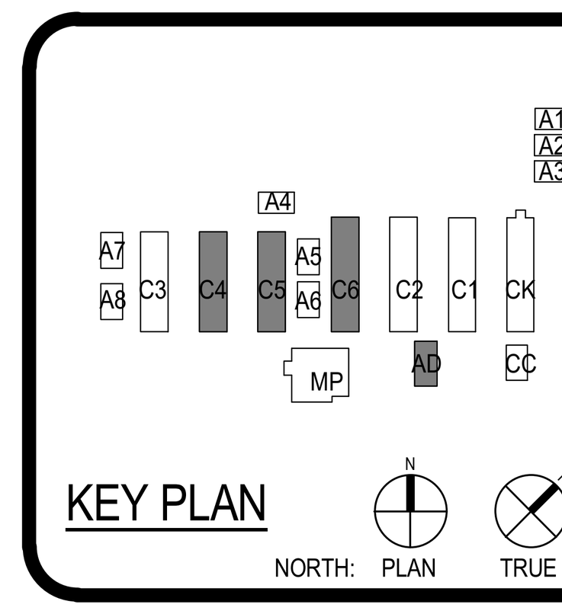
leafengineers.com

FINLEY ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
13521 Edwards St.,
Westminster, CA 92683

DSA SUBMITTAL

DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43



Consultant

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
12-28-2022	220307

REVISIONS

No.	Description	Date

DSA SUBMITTAL

MECHANICAL DEMOLITION FLOOR PLANS

MD2.02

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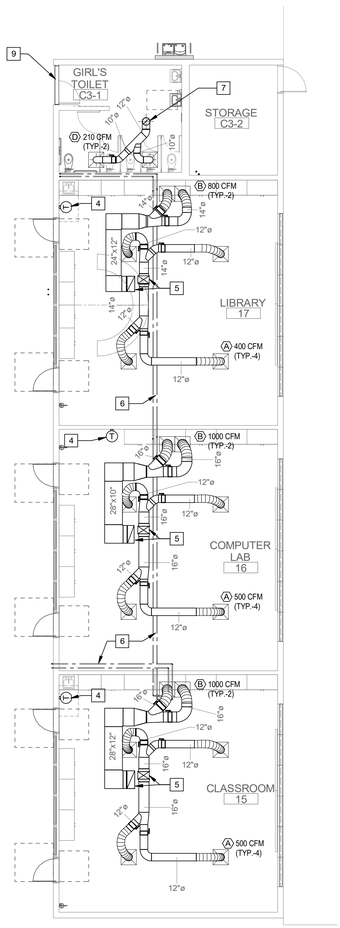
M2.01 - MECHANICAL FLOOR PLANS

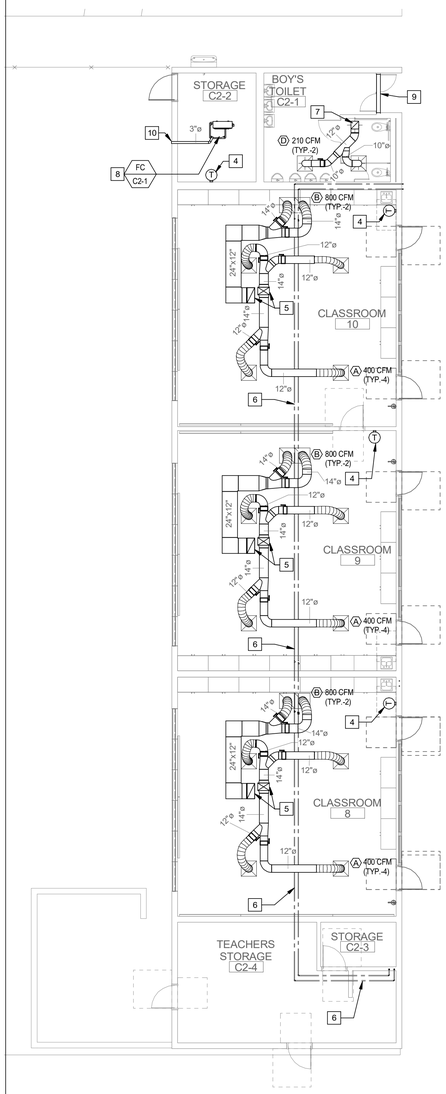
0" 1"

KEY NOTES

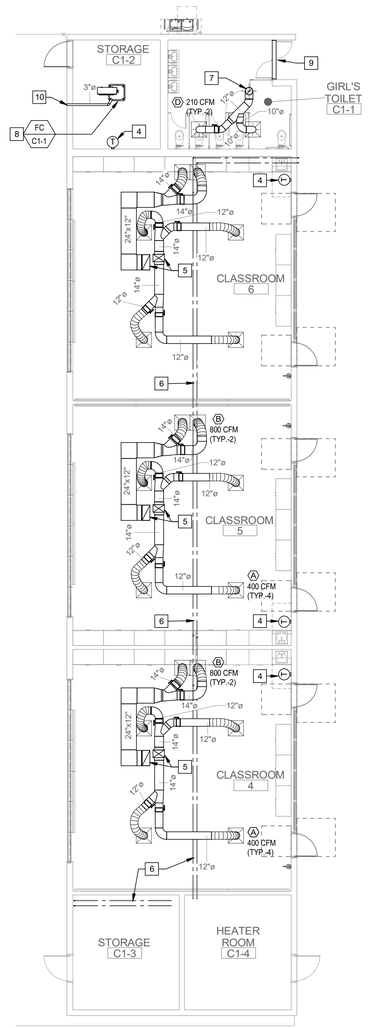
1. CEILING MOUTNED EXHAUST FAN, SEE SCHEDULE SHEET M5.01 FOR INFORMATION. SEE DETAIL #11/M6.01.
2. 6"ø EA DUCT UTR, SEE DETAIL #21/M6.01.
3. 8"ø EA DUCT UTR, SEE DETAIL #21/M6.01.
4. THERMOSTAT, SEE MOUNTING OVER OBSTRUCTION DETAIL ON SHEET M0.00.
5. SA & RA DUCT UTR TO A/C UNIT ON ROOF, SEE DETAIL #2/M6.01.
6. (E) HWS&R PIPES.
7. 12"ø EA DUCT UTR, SEE DETAIL #21/M6.01.
8. SPLITY SYSTEM DUCTLESS (CASSETTE TYPE) FAN COIL UNIT, SEE SCHEDULE SHEET M5.01 FOR INFORMATION. SEE DETAIL #19/M6.01
9. (E) MAKE-UP AIR LOUVER (ABOVE DOOR).
10. 8"x4" OSA LOUVER (0.2 SQUARE FEET, 50% FREE AREA), REFER TO ARCHITECTURAL DRAWINGS.



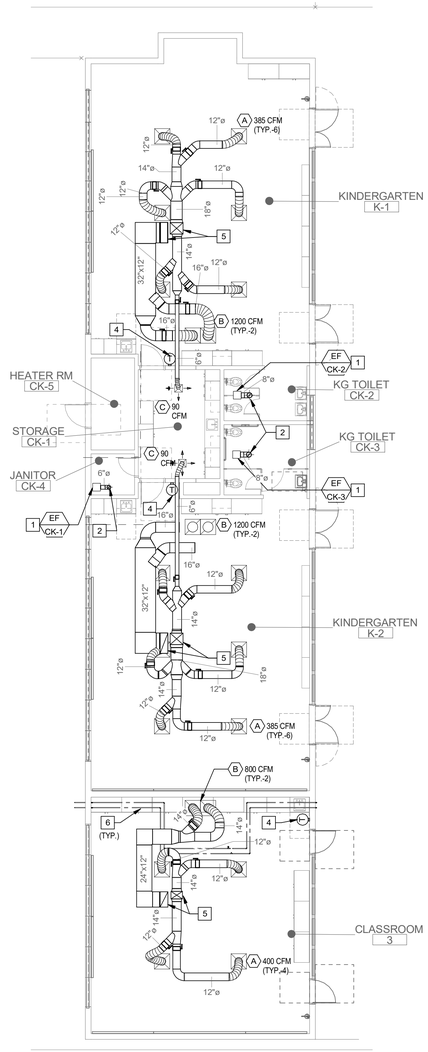
4 FLOOR PLAN - BUILDING C3
1/8" = 1'-0"



3 FLOOR PLAN - BUILDING C2
1/8" = 1'-0"



2 FLOOR PLAN - BUILDING C1
1/8" = 1'-0"



1 FLOOR PLAN - BUILDING CK
1/8" = 1'-0"

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PBK

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8163 Rochester Avenue, Suite 100
Rancho Cucamonga, CA 91730
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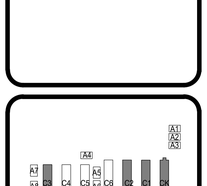
FINLEY ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
13521 Edwards St.
Westminster, CA 92683

DSA SUBMITTAL

DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43



KEY PLAN
NORTH: PLAN TRUE

Consultant

REGISTERED PROFESSIONAL ENGINEER
REX DAVID WARNER
No.M36155
Exp.09-30-2024
STATE OF CALIFORNIA

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
12-28-2022	220307

REVISIONS

No.	Description	Date

DSA SUBMITTAL

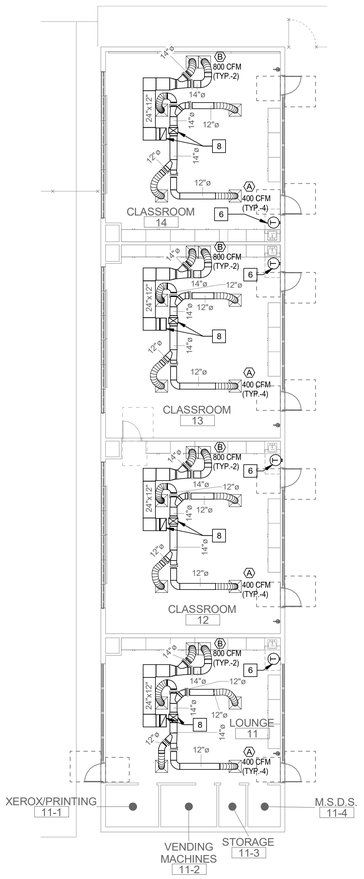
MECHANICAL FLOOR PLANS

M2.01

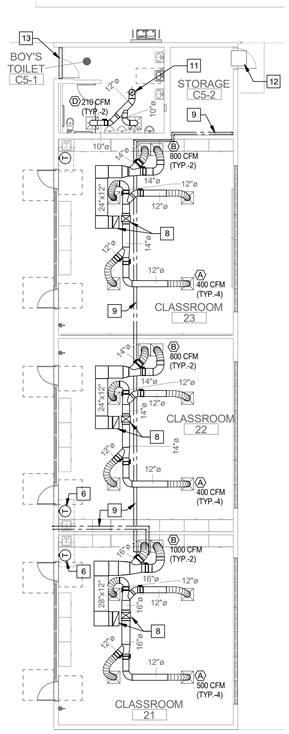
0" 1"

KEY NOTES

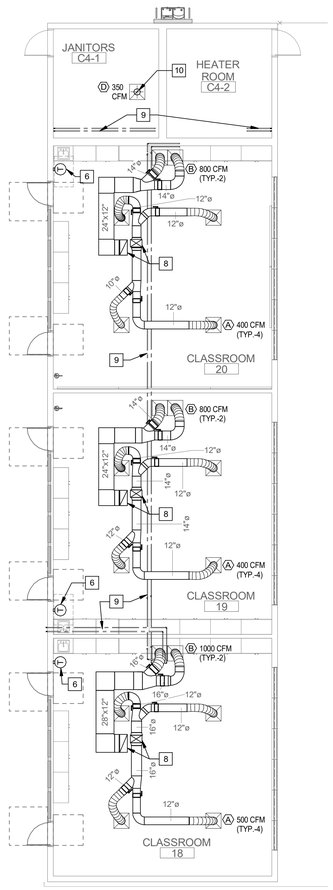
1. DUCTED VRF SYSTEM FAN COIL UNIT, SEE SCHEDULE SHEET M5.01 FOR INFORMATION. SEE DETAIL #20/M6.01
2. SUSPENDED SUPPLY FAN, SEE SCHEDULE SHEET M5.01 FOR INFORMATION.
3. CEILING MOUTNED EXHAUST FAN, SEE SCHEDULE SHEET M5.01 FOR INFORMATION, SEE DETAIL # 11/M6.01.
4. 6"ø EA DUCT UTR, SEE DETAIL #21/M6.01.
5. 10"ø OSA DUCT UTR, SEE DETAIL #21/M6.01.
6. THERMOSTAT, SEE MOUNTING OVER OBSTRUTION DETAIL ON SHEET M0.00..
7. MIXING BOX, SEE DETAIL #20/M6.01.
8. SA & RA DUCT UTR TO A/C UNIT ON ROOF, SEE DETAIL #2/M6.01.
9. (E) HWS&R PIPES.
10. 10"ø EA DUCT UTR, SEE DETAIL #21/M6.01.
11. 12"ø EA DUCT UTR, SEE DETAIL #21/M6.01.
12. (E) WINDOW TYPE A/C UNIT (ABOVE DOOR).
13. (E) MAKE-UP AIR LOUVER (ABOVE DOOR).



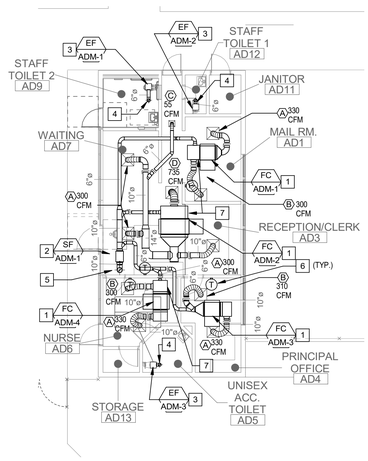
4 FLOOR PLAN - BUILDING C6
1" = 10'-0"



3 FLOOR PLAN - BUILDING C5
1" = 10'-0"



2 FLOOR PLAN - BUILDING C4
1/8" = 1'-0"



1 FLOOR PLAN - ADMIN BLDG
1" = 10'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121814 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/11/2023

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DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43

A1 A2 A3 A4 A5 A6 A7 A8 C1 C2 C3 C4 C5 C6 MP

KEY PLAN
NORTH: PLAN TRUE

Consultant

REGISTERED PROFESSIONAL ENGINEER REX DAVID WARD No.M36165 Exp.09-30-2024 STATE OF CALIFORNIA

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT
DATE 12-28-2022
PROJECT NUMBER 220307

REVISIONS

No.	Description	Date

DSA SUBMITTAL

MECHANICAL FLOOR PLANS

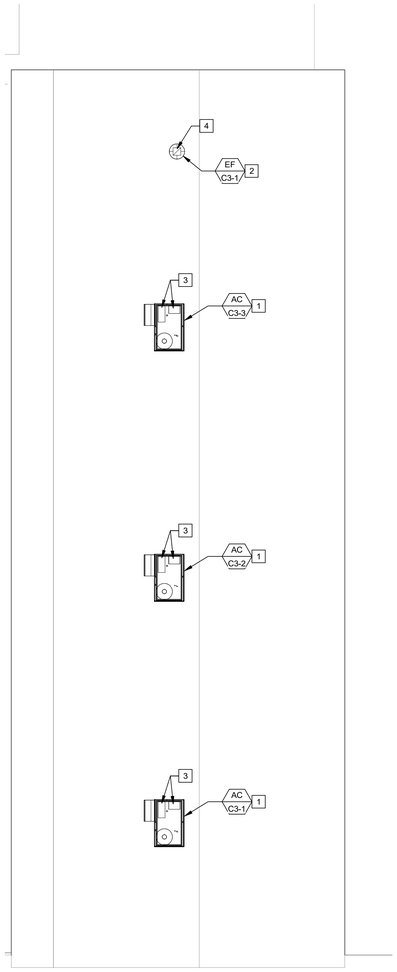
M2.02

FILE PATH: Z:\Projects\...
5/15/2023 8:48:11 AM

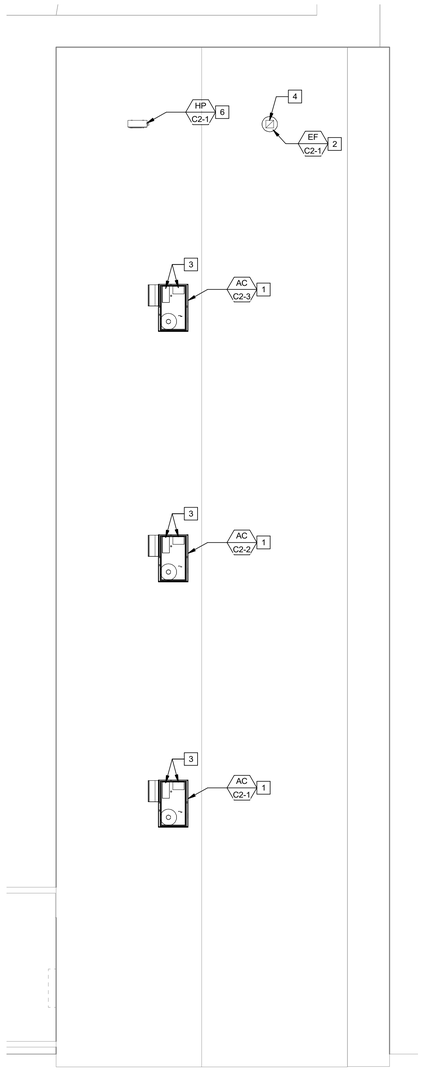
0" 1"

KEY NOTES

1. ROOFTOP PACKAGE HEAT PUMP UNIT, SEE SCHEDULE SHEET M5.01 FOR INFORMATION. SEE DETAIL #2/M6.01.
2. ROOF MOUNTED EXHAUST FAN, SEE SCHEDULE SHEET M5.01 DOR INFORMAITON. SEE DETAIL #25/M6.01
3. SA & RA DUCT DN. THROUGH ROOF, SEE DETAIL #2/M6.01.
4. EA DUCT DN. THROUGH ROOF, SEE DETAIL #25/M6.01.
5. EA DUCT DN. THROUGH ROOF, TERMINATE ON ROOF WITH ROOF JACK. SEE DETAIL #21/M6.01.
6. ROOF MOUNTED SPLIT SYSTEM (OUTDOOR) HEAT PUMP UNIT, SEE SCHEDULE SHEET M5.01 FOR INFORMATION. SEE DETAIL #6/M6.01.



4 MECHANICAL ROOF PLAN - BUILDING C3
1/8" = 1'-0"



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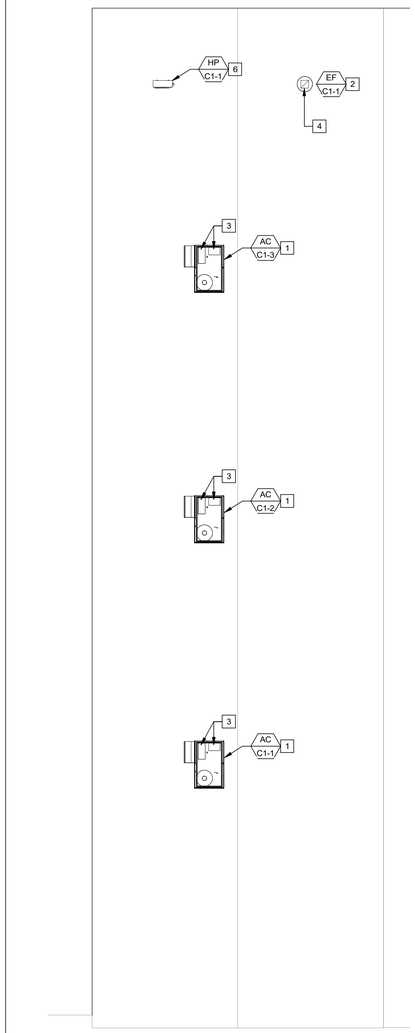
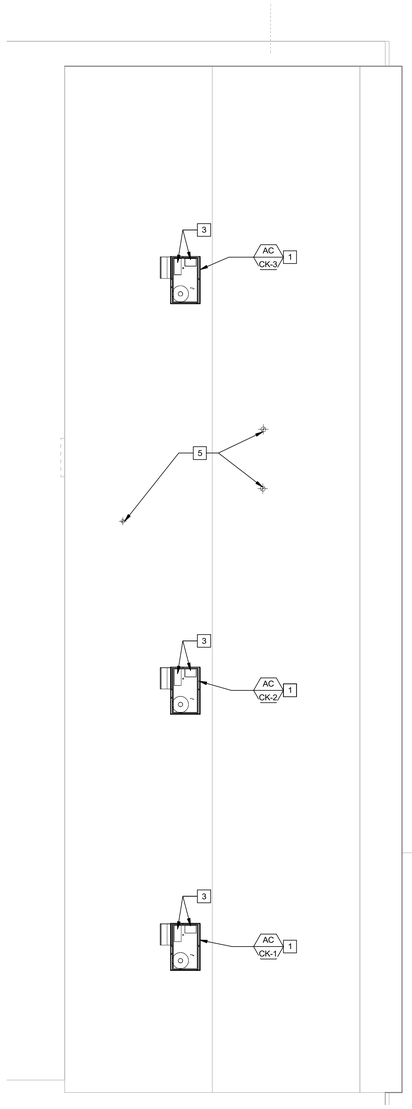
1/8" = 1'-0"



2 MECHANICAL ROOF PLAN - BUILDING C1
1/8" = 1'-0"



1 MECHANICAL ROOF PLAN - BUILDING CK
1/8" = 1'-0"

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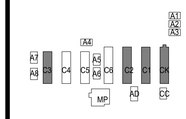

KEY PLAN NORTH: PLAN TRUE

Consultant

REGISTERED PROFESSIONAL ENGINEER
RAY DAVID WANG
No.M36193
Exp.09-30-2024
MECHANICAL
STATE OF CALIFORNIA

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
12-26-2022	220307

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MECHANICAL ROOF PLANS

M4.01

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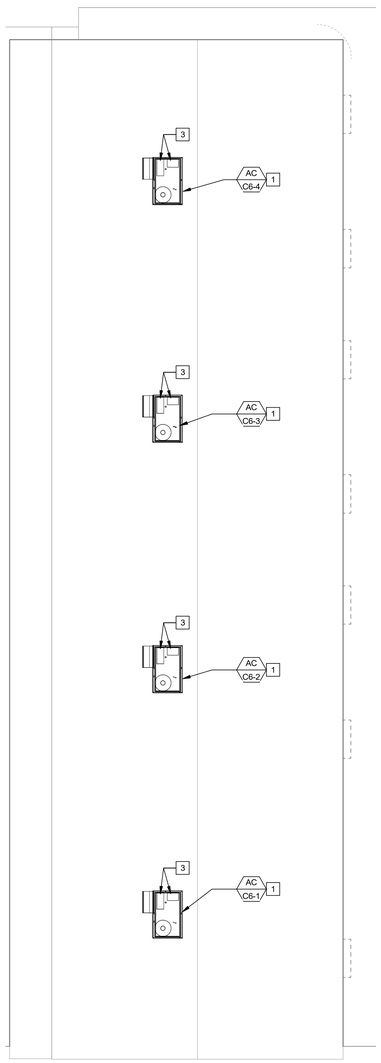
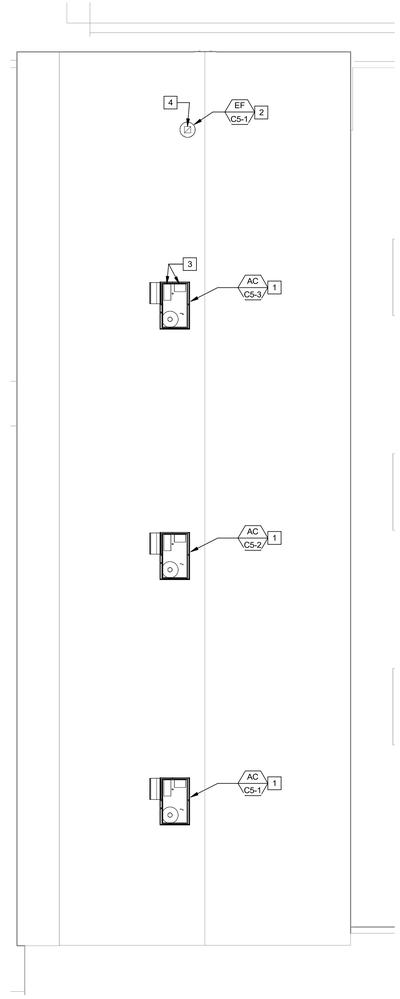
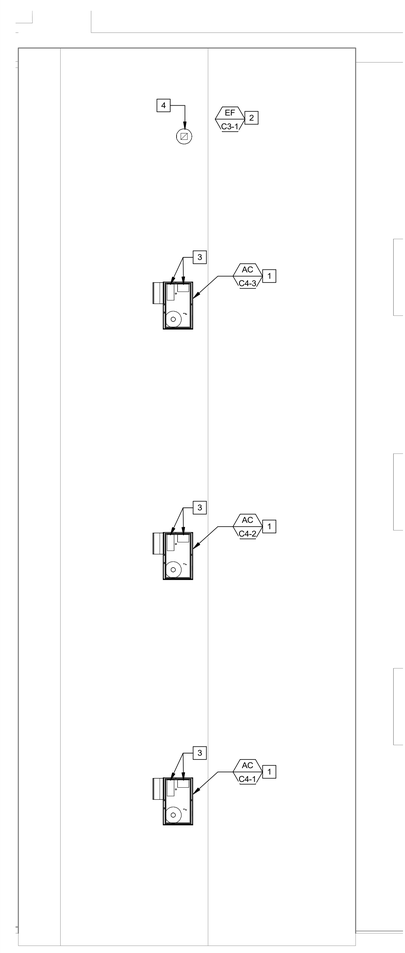
0" 1"



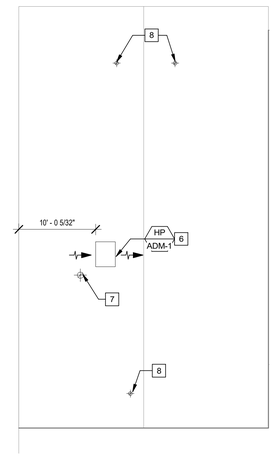
4 MECHANICAL ROOF PLAN - BUILDING C6
1/8" = 1'-0"



3 MECHANICAL ROOF PLAN - BUILDING C5
1/8" = 1'-0"



2 MECHANICAL ROOF PLAN - BUILDING C4
1/8" = 1'-0"



1 MECHANICAL ROOF PLAN - ADMIN
1/8" = 1'-0"

KEY NOTES

1. ROOFTOP PACKAGE HEAT PUMP UNIT, SEE SCHEDULE SHEET M5.01 FOR INFORMATION. SEE DETAIL #2/M6.01.
2. ROOF MOUNTED EXHAUST FAN, SEE SCHEDULE SHEET M5.01 DOR INFORMAITON. SEE DETAIL #25/M6.01.
3. SA & RA DUCT DN. THROUGH ROOF, SEE DETAIL #2/M6.01..
4. EA DUCT DN. THROUGH ROOF, SEE DETAIL #25/M6.01..
5. EA DUCT DN. THROUGH ROOF, TERMINATE ON ROOF WITH ROOF JACK. SEE DETAIL #21/M6.01.
6. VRF SYSTEM OUTDOOR HEAT PUMP, SEE SCHEDULE SHEET M5.01 FOR INFORMATION. SEE DETAIL #6/M6.01.
7. 10"ø OSA DUCT DN. TERMINATE ON ROOF WITH ROOF JACK. SEE DETAIL #21/M6.01.
8. 6"ø EA DUCT DN. TERMINATE ON ROOF WITH ROOF JACK. SEE DETAIL #21/M6.01.

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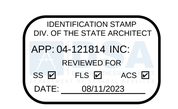

Consultant

REGISTERED PROFESSIONAL ENGINEER
RAY DAVID WARD
No. M36193
Exp. 09-30-2024
STATE OF CALIFORNIA

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
12-26-2022	220307

REVISIONS

No.	Description	Date

DSA SUBMITTAL

MECHANICAL ROOF PLANS

M4.02

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0" 1"

M5.01 - MECHANICAL SCHEDULES

ROOFTOP PACKAGED AIR CONDITIONING (HEAT PUMP) UNIT SCHEDULE

UNIT	MANUFACTURER & MODEL NO.	CFM	TONNAGE	TYPE	ESP (IN. WG)	COOLING CAP (MBH) TOTAL	COOLING CAP (MBH) SENS.	EVAP. ENT. AIR TEMP. (°F) DB	EVAP. ENT. AIR TEMP. (°F) WB	EVAP. LEAV. AIR TEMP. (°F) DB	EVAP. LEAV. AIR TEMP. (°F) WB	ENT. COND. TEMP. (°F) SUMMER DB	ENT. COND. TEMP. (°F) SUMMER WB	ENT. COND. TEMP. (°F) WINTER DB	EER SEER	HEATING CAPACITIES (MBH) TOTAL	HEATING CAPACITIES (MBH) INTEGRATED	COP HIGH TEMP.	COP LOW TEMP.	HSPF	INDOOR FAN NO.	INDOOR FAN RPM	INDOOR FAN HP/ BHP	INDOOR FAN DRIVE	COMPRESSOR NO.	COMPRESSOR RLA	COMPRESSOR LRA	POWER EXHAUST PART #	POWER EXHAUST CFM	POWER EXHAUST HP	POWER EXHAUST FLA	POWER EXHAUST MCA	POWER EXHAUST MOCP	POWER EXHAUST V	POWER EXHAUST PHASE	POWER EXHAUST HZ	POWER EXHAUST OPER. WT. (LBS)	ELECTRICAL OFM NO.	ELECTRICAL OFM (FLA)	ELECTRICAL IFM (FLA)	ELECTRICAL V	ELECTRICAL PHASE	ELECTRICAL HZ	ELECTRICAL UNIT MCA	ELECTRICAL UNIT MCOP	FILTERS (IN.) MERV 13	OPER. WT. (LBS) (UNIT + CURB)	OSA CFM	ANCHORAGE DETAIL	REMARKS
AC C1-1	CARRIER 50FCQM05	1,600	4.0	VERTICAL	1.0	49.40	42.68	80.3	64.4	55.5	54.0	88.0	68.0	41.0	- 14.3	41.91	41.0	3.7	2.3	8.2	1	1680	3.0/ 0.51	Direct	1	13.7	83	MICROMETL PECD-SRT12CB-D2DH-2LH	1,600	1/2	3.9	4.9	8.8	230	3	60	191	1	1.5	5.0	230	3	60	24	30	(4) 16"x16"x2"	595 + 347 = 942	360	2 / M6.01	(1)(2)(3)(4)(5)(7)(8)(9)(10)(11)(12)(13)
AC C1-2	CARRIER 50FCQM05	1,600	4.0	VERTICAL	1.0	49.40	42.68	80.3	64.4	55.5	54.0	88.0	68.0	41.0	- 14.3	41.91	41.0	3.7	2.3	8.2	1	1680	3.0/ 0.51	Direct	1	13.7	83	MICROMETL PECD-SRT12CB-D2DH-2LH	1,600	1/2	3.9	4.9	8.8	230	3	60	191	1	1.5	5.0	230	3	60	24	30	(4) 16"x16"x2"	595 + 347 = 942	360	2 / M6.01	(1)(2)(3)(4)(5)(7)(8)(9)(10)(11)(12)(13)
AC C1-3	CARRIER 50FCQM05	1,600	4.0	VERTICAL	1.0	49.40	42.68	80.3	64.4	55.5	54.0	88.0	68.0	41.0	- 14.3	41.91	41.0	3.7	2.3	8.2	1	1680	3.0/ 0.51	Direct	1	13.7	83	MICROMETL PECD-SRT12CB-D2DH-2LH	1,600	1/2	3.9	4.9	8.8	230	3	60	191	1	1.5	5.0	230	3	60	24	30	(4) 16"x16"x2"	595 + 347 = 942	360	2 / M6.01	(1)(2)(3)(4)(5)(7)(8)(9)(10)(11)(12)(13)
AC C2-1	CARRIER 50FCQM05	1,600	4.0	VERTICAL	1.0	49.40	42.68	80.3	64.4	55.5	54.0	88.0	68.0	41.0	- 14.3	41.91	41.0	3.7	2.3	8.2	1	1680	3.0/ 0.51	Direct	1	13.7	83	MICROMETL PECD-SRT12CB-D2DH-2LH	1,600	1/2	3.9	4.9	8.8	230	3	60	191	1	1.5	5.0	230	3	60	24	30	(4) 16"x16"x2"	595 + 347 = 942	360	2 / M6.01	(1)(2)(3)(4)(5)(7)(8)(9)(10)(11)(12)(13)
AC C2-2	CARRIER 50FCQM05	1,600	4.0	VERTICAL	1.0	49.40	42.68	80.3	64.4	55.5	54.0	88.0	68.0	41.0	- 14.3	41.91	41.0	3.7	2.3	8.2	1	1680	3.0/ 0.51	Direct	1	13.7	83	MICROMETL PECD-SRT12CB-D2DH-2LH	1,600	1/2	3.9	4.9	8.8	230	3	60	191	1	1.5	5.0	230	3	60	24	30	(4) 16"x16"x2"	595 + 347 = 942	360	2 / M6.01	(1)(2)(3)(4)(5)(7)(8)(9)(10)(11)(12)(13)
AC C2-3	CARRIER 50FCQM05	1,600	4.0	VERTICAL	1.0	49.40	42.68	80.3	64.4	55.5	54.0	88.0	68.0	41.0	- 14.3	41.91	41.0	3.7	2.3	8.2	1	1680	3.0/ 0.51	Direct	1	13.7	83	MICROMETL PECD-SRT12CB-D2DH-2LH	1,600	1/2	3.9	4.9	8.8	230	3	60	191	1	1.5	5.0	230	3	60	24	30	(4) 16"x16"x2"	595 + 347 = 942	360	2 / M6.01	(1)(2)(3)(4)(5)(7)(8)(9)(10)(11)(12)(13)
AC C3-1	CARRIER 50FCQM06	2,000	5.0	VERTICAL	1.0	61.62	55.91	80.8	64.4	54.8	54.0	88.0	68.0	41.0	- 14.3	51.69	50.56	3.8	2.3	8.2	1	1790	3.0/ 0.6	Direct	1	16.0	110	MICROMETL PECD-SRT12CB-D2DH-2L1	2,000	1	6.4	8.0	14.4	230	3	60	191	1	1.5	7.2	230	3	60	29	40	(4) 16"x16"x2"	610 + 347 = 957	360	2 / M6.01	(1)(2)(3)(4)(5)(6)(7)(8)(9)(10)(11)(12)(13)
AC C3-2	CARRIER 50FCQM06	2,000	5.0	VERTICAL	1.0	61.62	55.91	80.8	64.4	54.8	54.0	88.0	68.0	41.0	- 14.3	51.69	50.56	3.8	2.3	8.2	1	1790	3.0/ 0.6	Direct	1	16.0	110	MICROMETL PECD-SRT12CB-D2DH-2L1	2,000	1	6.4	8.0	14.4	230	3	60	191	1	1.5	7.2	230	3	60	29	40	(4) 16"x16"x2"	610 + 347 = 957	360	2 / M6.01	(1)(2)(3)(4)(5)(6)(7)(8)(9)(10)(11)(12)(13)
AC C3-3	CARRIER 50FCQM05	1,600	4.0	VERTICAL	1.0	49.40	42.68	80.3	64.4	55.5	54.0	88.0	68.0	41.0	- 14.3	41.91	41.0	3.7	2.3	8.2	1	1680	3.0/ 0.51	Direct	1	13.7	83	MICROMETL PECD-SRT12CB-D2DH-2LH	1,600	1/2	3.9	4.9	8.8	230	3	60	191	1	1.5	5.0	230	3	60	24	30	(4) 16"x16"x2"	595 + 347 = 942	170	2 / M6.01	(1)(2)(3)(4)(5)(7)(8)(9)(10)(11)(12)(13)
AC C4-1	CARRIER 50FCQM06	2,000	5.0	VERTICAL	1.0	61.62	55.91	80.8	64.4	54.8	54.0	88.0	68.0	41.0	- 14.3	51.69	50.56	3.8	2.3	8.2	1	1790	3.0/ 0.6	Direct	1	16.0	110	MICROMETL PECD-SRT12CB-D2DH-2L1	2,000	1	6.4	8.0	14.4	230	3	60	191	1	1.5	7.2	230	3	60	29	40	(4) 16"x16"x2"	610 + 347 = 957	360	2 / M6.01	(1)(2)(3)(4)(5)(6)(7)(8)(9)(10)(11)(12)(13)
AC C4-2	CARRIER 50FCQM05	1,600	4.0	VERTICAL	1.0	49.40	42.68	80.3	64.4	55.5	54.0	88.0	68.0	41.0	- 14.3	41.91	41.0	3.7	2.3	8.2	1	1680	3.0/ 0.51	Direct	1	13.7	83	MICROMETL PECD-SRT12CB-D2DH-2LH	1,600	1/2	3.9	4.9	8.8	230	3	60	191	1	1.5	5.0	230	3	60	24	30	(4) 16"x16"x2"	595 + 347 = 942	360	2 / M6.01	(1)(2)(3)(4)(5)(7)(8)(9)(10)(11)(12)(13)
AC C4-3	CARRIER 50FCQM05	1,600	4.0	VERTICAL	1.0	49.40	42.68	80.3	64.4	55.5	54.0	88.0	68.0	41.0	- 14.3	41.91	41.0	3.7	2.3	8.2	1	1680	3.0/ 0.51	Direct	1	13.7	83	MICROMETL PECD-SRT12CB-D2DH-2LH	1,600	1/2	3.9	4.9	8.8	230	3	60	191	1	1.5	5.0	230	3	60	24	30	(4) 16"x16"x2"	595 + 347 = 942	220	2 / M6.01	(1)(2)(3)(4)(5)(7)(8)(9)(10)(11)(12)(13)
AC C5-1	CARRIER 50FCQM06	2,000	5.0	VERTICAL	1.0	61.62	55.91	80.8	64.4	54.8	54.0	88.0	68.0	41.0	- 14.3	51.69	50.56	3.8	2.3	8.2	1	1790	3.0/ 0.6	Direct	1	16.0	110	MICROMETL PECD-SRT12CB-D2DH-2L1	2,000	1	6.4	8.0	14.4	230	3	60	191	1	1.5	7.2	230	3	60	29	40	(4) 16"x16"x2"	610 + 347 = 957	360	2 / M6.01	(1)(2)(3)(4)(5)(6)(7)(8)(9)(10)(11)(12)(13)
AC C5-2	CARRIER 50FCQM05	1,600	4.0	VERTICAL	1.0	49.40	42.68	80.3	64.4	55.5	54.0	88.0	68.0	41.0	- 14.3	41.91	41.0	3.7	2.3	8.2	1	1680	3.0/ 0.51	Direct	1	13.7	83	MICROMETL PECD-SRT12CB-D2DH-2LH	1,600	1/2	3.9	4.9	8.8	230	3	60	191	1	1.5	5.0	230	3	60	24	30	(4) 16"x16"x2"	595 + 347 = 942	360	2 / M6.01	(1)(2)(3)(4)(5)(7)(8)(9)(10)(11)(12)(13)
AC C5-3	CARRIER 50FCQM05	1,600	4.0	VERTICAL	1.0	49.40	42.68	80.3	64.4	55.5	54.0	88.0	68.0	41.0	- 14.3	41.91	41.0	3.7	2.3	8.2	1	1680	3.0/ 0.51	Direct	1	13.7	83	MICROMETL PECD-SRT12CB-D2DH-2LH	1,600	1/2	3.9	4.9	8.8	230	3	60	191	1	1.5	5.0	230	3	60	24	30	(4) 16"x16"x2"	595 + 347 = 942	220	2 / M6.01	(1)(2)(3)(4)(5)(7)(8)(9)(10)(11)(12)(13)
AC C6-1	CARRIER 50FCQM05	1,600	4.0	VERTICAL	1.0	49.40	42.68	80.3	64.4	55.5	54.0	88.0	68.0	41.0	- 14.3	41.91	41.0	3.7	2.3	8.2	1	1680	3.0/ 0.51	Direct	1	13.7	83	MICROMETL PECD-SRT12CB-D2DH-2LH	1,600	1/2	3.9	4.9	8.8	230	3	60	191	1	1.5	5.0	230	3	60	24	30	(4) 16"x16"x2"	595 + 347 = 942	130	2 / M6.01	(1)(2)(3)(4)(5)(7)(8)(9)(10)(11)(12)(13)
AC C6-2	CARRIER 50FCQM05	1,600	4.0	VERTICAL	1.0	49.40	42.68	80.3	64.4	55.5	54.0	88.0	68.0	41.0	- 14.3	41.91	41.0	3.7	2.3	8.2	1	1680	3.0/ 0.51	Direct	1	13.7	83	MICROMETL PECD-SRT12CB-D2DH-2LH	1,600	1/2	3.9	4.9	8.8	230	3	60	191	1	1.5	5.0	230	3	60	24	30	(4) 16"x16"x2"	595 + 347 = 942	360	2 / M6.01	(1)(2)(3)(4)(5)(7)(8)(9)(10)(11)(12)(13)
AC C6-3	CARRIER 50FCQM05	1,600	4.0	VERTICAL	1.0	49.40	42.68	80.3	64.4	55.5	54.0	88.0	68.0	41.0	- 14.3	41.91	41.0	3.7	2.3	8.2	1	1680	3.0/ 0.51	Direct	1	13.7	83	MICROMETL PECD-SRT12CB-D2DH-2LH	1,600	1/2	3.9	4.9	8.8	230	3	60	191	1	1.5	5.0	230	3	60	24	30	(4) 16"x16"x2"	595 + 347 = 942	360	2 / M6.01	(1)(2)(3)(4)(5)(7)(8)(9)(10)(11)(12)(13)
AC C6-4	CARRIER 50FCQM05	1,600	4.0	VERTICAL	1.0	49.40	42.68	80.3	64.4	55.5	54.0	88.0	68.0	41.0	- 14.3	41.91	41.0	3.7	2.3	8.2	1	1680	3.0/ 0.51	Direct	1	13.7	83	MICROMETL PECD-SRT12CB-D2DH-2LH	1,600	1/2	3.9	4.9	8.8	230	3	60	191	1	1.5	5.0	230	3	60	24	30	(4) 16"x16"x2"	595 + 347 = 942	360	2 / M6.01	(1)(2)(3)(4)(5)(7)(8)(9)(10)(11)(12)(13)
AC CK-1	CARRIER 50FCQM05	1,600	4.0	VERTICAL	1.0	49.40	42.68	80.3	64.4	55.5	54.0	88.0	68.0	41.0	- 14.3	41.91	41.0	3.7	2.3	8.2	1	1680	3.0/ 0.51	Direct	1	13.7	83	MICROMETL PECD-SRT12CB-D2DH-2LH	1,600	1/2	3.9	4.9	8.8	230	3	60	191	1	1.5	5.0	230	3	60	24	30	(4) 16"x16"x2"	595 + 347 = 942	360	2 / M6.01	(1)(2)(3)(4)(5)(7)(9)(10)(11)(12)(13)
AC CK-2	CARRIER 50FCQM07	2,400	6.0	VERTICAL	1.0	74.96	65.59	80.0	64.3	54.6	53.8	88.0	68.0	41.0	11.2 15.0	58.89	57.63	3.6	2.4	-	1	2008	3.0/ 0.84	Direct	1	18	136	MICROMETL PECD-SRT12CB-D2DH-2L1	2,400	1.0	6.4	8.0	14.4	230	3	60	191	1	1.5	7.8	230	3	60	32	45	(4) 16"x16"x2"	640	415	2 / M6.01	(1)(2)(3)(4)(5)(6)(7)(8)(9)(10)(11)(12)(13)
AC CK-3	CARRIER 50FCQM07	2,400	6.0	VERTICAL	1.0	74.96	65.59	80.0	64.3	54.6	53.8	88.0	68.0	41.0	11.2 15.0	58.89	57.63	3.6	2.4	-	1	2008	3.0/ 0.84	Direct	1	18	136	MICROMETL PECD-SRT12CB-D2DH-2L1	2,400	1.0	6.4	8.0	14.4	230	3	60	191	1	1.5	7.8	230	3	60	32	45	(4) 16"x16"x2"	640	440	2 / M6.01	(1)(2)(3)(4)(5)(6)(7)(8)(9)(10)(11)(12)(13)

NOTES:
1. SCHEDULED LOADS INCLUDE FAN AND MOTOR HEAT.
2. PROVIDE ANTI-RECYCLE TIMER, CRANKCASE HEATER, LOW AMBIENT KIT AND HIGH CAPACITY FILTER RACK.
3. PROVIDE FACTORY "MICROMETL" MODULATING ECONOMIZER WITH POWER EXHAUST. AC UNIT SHALL HAVE C02 CONTROL. PROVIDE WITH LOCKING MESH COVER. POWER EXHAUST SHALL BE PROVIDED WITH A SEAPARTE DISCONNECT SWITCH, FIELD WIRED BY ELECTRICAL.
4. PROVIDE VIBRATION ISOLATORS.
5. BYPASS UNIT ANTI-RECYCLE TIMER WHEN ANTI-RECYCLE FUNCTION IS INCLUDED IN THE THERMOSTAT.
6. OVERALL SMOKE DETECTION SYSTEM PROVIDED BY ELECTRICAL FOR ALL UNITS TO SHUT-OFF UPON DETECTION OF SMOKE AND SIGNAL THE FIRE ALARM SYSTEM, INSTALL IN STRICT ACCORDANCE WITH THE 2019 CALIFORNIA MECHANICAL CODE, SECTION 608. REFER TO ELECTRICAL PLANS AND MECHANICAL TO CONNECT TO ELECTRICAL RELAY. PRIOR TO MECHANICAL PERMIT FINAL, A SMOKE DETECTOR SYSTEM SHUT-OFF TEST WILL BE REQUIRED.
7. PROVIDE WITH FACTORY MOUNTED NON-FUSED DISCONNECT SWITCH.
8. PROVIDE FACTORY CONDENSER COIL GUARDS.
9. PROVIDE T-24 COMPLIANT INTERNET PROGRAMMABLE THERMOSTAT "NT" MODEL X7C WITH DEMAND CONTROL VENTILATION (DCV), C02 SENSORS.
10. UNITS SHALL HAVE DUCT FLEX CONNECTIONS INSTALLED WITHIN ROOF CURB.
11. ALL AC UNITS SHALL HAVE R-410A REFRIGERANT.
12. PROVIDE WITH FACTORY MOUNTED NON-POWERED CONVENIENT OUTLET.
13. UNIT SHALL BE INSTALLED ON A LEVELED BUILT-UP CURB (PROVIDED BY OTHERS).

VRF SYSTEM INDOOR FAN COIL UNIT SCHEDULE

UNIT	MANUFACTURER AND MODEL NO.	SERVICE/ LOCATION	TYPE	CAPACITY (MBH) COOLING TOTAL	CAPACITY (MBH) COOLING SENSIBLE	CAPACITY (MBH) HEATING	OSA TEMP. (°F) SUMMER (DB/WB)	OSA TEMP. (°F) WINTER (DB)	EAT. (°F) (DB/WB)	SUPPLY FAN CFM (H/M/L)	SUPPLY FAN E.S.P. (IN.)	FLOW SELECTOR BOX MANUFACTURER & MODEL NO.	FLOW SELECTOR BOX VOLTAGE	FLOW SELECTOR BOX CURRENT DRAW (AMP)	FLOW SELECTOR BOX MOCP	FLOW SELECTOR BOX TOTAL WT. (LBS.)	ELECTRICAL VOLTAGE	ELECTRICAL UNIT FLA	ELECTRICAL UNIT MCA	ELECTRICAL MOCP	OPER. WT. (LBS.)	ANCHORAGE DETAIL	REMARKS
FC ADM-1	TOSHIBA/CARRIER MMD-AP0126BHPUL	ADMIN. 'ADM' WORKROOM AD1	CONSEALED DUCT	12.0	9.0	13.5	88.0/68.0	41.0	80.0/67.0	395/ 329/ 263	0.4	230V/1∅/60HZ	TOSHIBA/CARRIER RBM-Y0383FUL	<1	15	11	230V/1∅/60HZ	0.88	1.1	15	60	20 / M6.01	
FC ADM-2	TOSHIBA/CARRIER MMD-AP0366BHPUL	ADMIN. 'ADM' RECEPTION/CLERK AD3	CONSEALED DUCT	36.0	28.44	40.0	88.0/68.0	41.0	80.0/67.0	1,130/ 954/ 812	0.6	230V/1∅/60HZ	TOSHIBA/CARRIER RBM-Y0613FUL	<1	15	13	230V/1∅/60HZ	2.71	3.39	15	100	20 / M6.01	
FC ADM-3	TOSHIBA/CARRIER MMD-AP0126BHPUL	ADMIN. 'ADM' OFFICE AD4	CONSEALED DUCT	12.0	28.44	40.0	88.0/68.0	41.0	80.0/67.0	-/ -/ -	0.4	230V/1∅/60HZ	TOSHIBA/CARRIER RBM-Y0383FUL	<1	15	11	230V/1∅/60HZ	0.88	1.1	15	60	20 / M6.01	
FC ADM-4	TOSHIBA/CARRIER MMD-AP0126BHPUL	ADMIN. 'ADM' NURSE AD6	CONSEALED DUCT	12.0	28.44	40.0	88.0/68.0	41.0	80.0/67.0	-/ -/ -	0.4	230V/1∅/60HZ	TOSHIBA/CARRIER RBM-Y0383FUL	<1	15	11	230V/1∅/60HZ	1.85	2.31	15	100	20 / M6.01	

NOTES:
1. PROVIDE WITH CONDENSATE DRAIN PAN (PRIMARY AND SECONDARY) FOR FAN COIL UNIT AND ASSOCIATED PIPING.
2. PROVIDE WITH FACTORY FURNISHED & INSTALLED CONDENSATE DRAIN LIFT PUMP (CONDENSATE PUMP SHALL BE POWERED THRU INDOOR FAN COIL UNIT).
3. SIZE REFRIGERANT LINES PER MANUFACTURERS RECOMMENDATIONS.
4. PROVIDE T-24 COMPLIANT INTERNET PROGRAMMABLE THERMOSTAT.
5. CONCEALED/DUCTGED FAN COIL UNIT.
6. PROVIDE DISCONNECT SWITCH.
7. PROVIDE WITH MDEDIUM STATIC MOTOR.

SPLIT SYSTEM (INDOOR) FAN COIL UNIT SCHEDULE

UNIT	MANUFACTURER AND MODEL NO.	CAPACITY (MBH) COOLING (TOTAL/SENSIBLE)	CAPACITY (MBH) HEATING	OSA TEMP. (°F) SUMMER (DB/WB)	OSA TEMP. (°F) WINTER (DB)	EAT. (°F) (DB/WB)	LAT. (°F) (DB/WB)	SUPPLY FAN CFM	SUPPLY FAN E.S.P. (IN.)	ELECTRICAL VOLTAGE	ELECTRICAL UNIT MCA	ELECTRICAL MOCP	OPER. WT. (LBS.)	ANCHORAGE DETAIL	REMARKS
FC C1-1	CARRIER 40MBCQ12	12.0	12.0	91.0/68.0	36.0	57.6	109.7	400 H 340 M 280 L	-	208V/ 1Ø / 60HZ	0.2	(6)	40	19 / M6.01	(1)(2)(3)(4)(5)(6)
FC C2-1	CARRIER 40MBCQ12	12.0	12.0	91.0/68.0	36.0	57.6	109.7	400 H 340 M 280 L	-	208V/ 1Ø / 60HZ	0.2	(6)	40	19 / M6.01	(1)(2)(3)(4)(5)(6)

NOTES:
1. PROVIDE WITH CONDENSATE DRAIN PAN (PRIMARY AND SECONDARY) FOR FAN COIL UNIT AND ASSOCIATED PIPING.
2. PROVIDE WITH FACTORY FURNISHED & INSTALLED CONDENSATE DRAIN LIFT PUMP (CONDENSATE PUMP SHALL BE POWERED THRU INDOOR FAN COIL UNIT).
3. SIZE REFRIGERANT LINES PER MANUFACTURERS RECOMMENDATIONS.
4. PROVIDE T-24 COMPLAINT INTERNET PROGRAMMABLE THERMOSTAT.
5. CASSETTE TYPE DUCTLESS FAN COIL UNIT, POWERED BY OUTDOOR HEAT PUMP.
6. PROVIDE WITH MDEDIUM STATIC MOTOR.

SPLIT SYSTEM (OUTDOOR) HEAT PUMP UNIT SCHEDULE

UNIT	MANUFACTURER AND MODEL NO.	COOLING CAP. (MBH) COOLING (TOTAL/SENSIBLE)	COOLING CAP. (MBH) HEATING	COP/ HSPF	AMB. TEMP.(°F) SUMMER (DB/WB)	AMB. TEMP.(°F) WINTER (DB)	E.E.R. I.E.E.R.	ELECTRICAL COMPRESSOR QTY.	ELECTRICAL COMPRESSOR RLA	ELECTRICAL OUTDOOR FAN QTY.	ELECTRICAL MCA	ELECTRICAL MOCP	ELECTRICAL VOLTAGE	OPER WT. (LBS)	ANCHORAGE DETAIL	REMARKS
HP C1-1	CARRIER 38MARBQ12AA3	12.0	12.0	3.22/ 10.6	91.0/68.0	36.0	12.7 EER 21.5 SEER	1	8.5	1	15	15	208V / 1Ø / 60HZ	75	6 / M6.01	
HP C2-1	CARRIER 38MARBQ12AA3	12.0	12.0	3.22/ 10.6	91.0/68.0	36.0	12.7 EER 21.5 SEER	1	8.5	1	15	15	208V / 1Ø / 60HZ	75	6 / M6.01	

NOTES:
1. PROVIDE CRANKCASE HEATER, HIGH & LOW PRESSURE SWITCHES.
2. PROVIDE LOW AMBIENT KIT.
3. PROVIDE 3/4" EXPAND METAL CONDENSING COIL GUARD.
4. PROVIDE MINIMUM CLEARANCE AROUND EACH UNIT PER THE MANUFACTURER'S RECOMMENDATIONS.
5. SIZE REFRIGERANT (R410A) LINES PER MANUFACTURERS RECOMMENDATIONS. PROVIDE LONG LINE KIT IF REQUIRED.
6. PROVIDE HAIL-GUARD.
7. PROVIDE WITH HOUSEKEEPING PAD.
8. ALL HEAT PUMP UNITS ARE ROOF MOUNTED.

VRF SYSTEM OUTDOOR HEAT RECOVERY UNIT SCHEDULE

UNIT	MANUFACTURER AND MODEL NO.	TYPE	COOLING CAP. (MBH) COOLING (TOTAL/SENSIBLE)	COOLING CAP. (MBH) HEATING	COP	AMB. TEMP.(°F) SUMMER (DB/WB)	AMB. TEMP.(°F) WINTER (DB)	SCHE	E.E.R. I.E.E.R.	ELECTRICAL COMPRESSOR QTY.	ELECTRICAL COMPRESSOR RLA	ELECTRICAL OUTDOOR FAN QTY.	ELECTRICAL MCA	ELECTRICAL MOCP	ELECTRICAL VOLTAGE	OPER WT. (LBS)	ANCHORAGE DETAIL	REMARKS
HP ADM-1	TOSHIBA/CARRIER MMY-MAP0726FT2P-UL	ROOF MOUNTED	69.0	77.0	3.42	88.0/68.0	41.0	26.9	12.6 19.5	2	-	2	47	50	230V / 3Ø / 60HZ	600	6 / M6.01	

NOTES:
1. PROVIDE CRANKCASE HEATER, HIGH & LOW PRESSURE SWITCHES.
2. PROVIDE LOW AMBIENT KIT.
3. PROVIDE 3/4" EXPAND METAL CONDENSING COIL GUARD.
4. PROVIDE MINIMUM CLEARANCE AROUND EACH UNIT PER THE MANUFACTURER'S RECOMMENDATIONS.
5. SIZE REFRIGERANT (R410A) LINES PER MANUFACTURERS RECOMMENDATIONS. PROVIDE LONG LINE KIT IF REQUIRED.
6. PROVIDE HAIL-GUARD.
7. PROVIDE WITH HOUSEKEEPING PAD.
8. ALL HEAT PUMP UNITS ARE ROOF MOUNTED.
9. PROVIDE UNIT WITH HEAT RECOVERY.

FANS SCHEDULE

UNIT	MANUFACTURER & MODEL NO.	SERVICE	TYPE	CFM	SP IN W.G.	FAN RPM	MOTOR HP/ BHP	MOTOR FLA	MOTOR VOLT	MOTOR PH	MOTOR HZ	SONES	OPER WT. (LBS)	ANCHORAGE DETAIL	REMARKS
EF ADM-1	GREENHECK SP-A50-90-VG	BUILDING "ADM" MEN'S TOILET AD9	CEILING/SUSPENDED	70	0.25	838	6 WATTS	0.29	115	1	60	2.0	15	11 / M6.01	(2)(5)(6)(8)(9)(10)
EF ADM-2	GREENHECK SP-A50-90-VG	BUILDING "ADM" WOMEN'S TOILET AD12	CEILING/SUSPENDED	70	0.25	838	6 WATTS	0.29	115	1	60	2.0	15	11 / M6.01	(2)(5)(6)(8)(9)(10)
EF ADM-3	GREENHECK SP-A50-90-VG	BUILDING "ADM" UNISEX ACC. TOILET AD5	CEILING/SUSPENDED	70	0.25	838	6 WATTS	0.29	115	1	60	2.0	15	11 / M6.01	(2)(5)(6)(8)(9)(10)
EF C1-1	GREENHECK GB100HP-4	BUILDING "C1" GIRL'S TOILET C1-1	ROOF MOUNTED	350	0.5	1326	1/4 0.09	5.8	115	1	60	5.5	75	25 / M6.01	(1)(2)(3)(4)(6)(8)
EF C2-1	GREENHECK GB100-4	BUILDING "C2" BOY'S TOILET C2-1	ROOF MOUNTED	420	0.5	1151	1/4 0.09	5.8	115	1	60	3.9	75	25 / M6.01	(1)(2)(3)(4)(6)(8)
EF C3-1	GREENHECK GB100HP-4	BUILDING "C3" GIRL'S TOILET C3-1	ROOF MOUNTED	350	0.5	1326	1/4 0.09	5.8	115	1	60	5.5	75	25 / M6.01	(1)(2)(3)(4)(6)(8)
EF C4-1	GREENHECK GB100HP-4	BUILDING "C4" JANITORS C4-1	ROOF MOUNTED	350	0.5	1326	1/4 0.09	5.8	115	1	60	5.5	75	25 / M6.01	(1)(2)(3)(4)(6)(8)
EF C5-1	GREENHECK GB100-4	BUILDING "C5" BOY'S TOILET C5-1	ROOF MOUNTED	420	0.5	1151	1/4 0.09	5.8	115	1	60	3.9	75	25 / M6.01	(1)(2)(3)(4)(6)(8)
EF CK-1	GREENHECK SP-A50-90-VG	BUILDING "CK" JANITOR CK-4	CEILING/SUSPENDED	70	0.25	838	6 WATTS	0.29	115	1	60	2.0	15	11 / M6.01	(2)(4)(6)(8)
EF CK-2	GREENHECK SP-A200	BUILDING "CK" KG TOILET CK-2	CEILING/SUSPENDED	140	0.25	695	23 WATTS	0.46	115	1	60	1.2	30	11 / M6.01	(2)(4)(6)(8)
EF CK-3	GREENHECK SP-A200	BUILDING "CK" KG TOILET CK-3	CEILING/SUSPENDED	140	0.25	695	23 WATTS	0.46	115	1	60	1.2	30	11 / M6.01	(2)(4)(6)(8)
EF CK-4					DELETTED										
EF CK-5					DELETTED										
SF ADM-1	GREENHECK SQ-90	BUILDING "ADM" ADMIN. AREA	CEILING MOUNTED INLINE	300	0.507	1550	1/10 0.06	-	115	1	60	7.4	50	11 / M6.01	(3)(5)(6)(7)

NOTES:
1. PROVIDE FACTORY ROOF CURB. SLOPE TO MATCH EXISTING ROOF SLOPE, AS REQUIRED.
2. FAN SHALL OPERATE ON A TIME CLOCK SCHEDULE PROVIDED BY THE SCHOOL DISTRICT.
3. PROVIDE BACKDRAFT DAMPER FOR ALL FANS.
4. INTERLOCK FAN WITH A/C UNIT SERVING ADJAMENT CLASSROOM.
5. INTERLOCK SUPPLY FAN WITH ALL FAN COIL UNITS SERVING ADMIN. AREA.
6. PROVIDED FACTORY SOLID STATE CONTROLLER MOUNTED WITHIN THE FAN'S CASING.
7. PROVIDE WITH MERV 13 FILTERS.
8. PROVIDE WITH FACTORY SEISMIC HANKING KIT.
9. PROVIDE WITH FACTORY WHITE GRILLE.
10. PROVIDE WITH FACTORY BACKDRAFT DAMPER.

AIR DISTRIBUTION SCHEDULE

SYMBOL	TYPE	MAKE & MODEL	DESCRIPTION
(A)	CEILING SUPPLY	TITUS MODEL MCD	MODULAR CORE DIFFUSER WITH FRAME FOR LAY-IN T-BAR CEILING, FLUSH FACE MOUNTING.
(B)	CEILING RETURN	TITUS MODEL PAR	PERFORATED FACE DIFFUSER WITH FRAME FOR LAY-IN T-BAR CEILING, FLUSH FACE MOUNTING.
(C)	CEILING SUPPLY	TITUS MODEL MCD	MODULAR CORE DIFFUSER WITH RAPID MOUNT FRAME MODEL TRM FOR SURFACE MOUNTING.
(D)	CEILING RETURN/EXHASUT	TITUS MODEL 50F	EGG CRATE GRILLE REGISTER WITH RAPID MOUNT FRAME TRM FOR SURFACE MOUNTING.
(E)	SIDEWALL SUPPLY	TITUS MODEL 1700	DOUBLE DEFLECTION HORIZONTAL 5° DOWN FRONT GRILLE WITH 1/2" BLADE SPACING, FRAME FOR WALL MOUNTING.
(F)	CEILING SUPPLY	TITUS MODEL ML-38-2B	ALUMINUM LINEAR SLOT DIFFUSER, 3/4" SLOT,4-SLOT, PATTERN CONTROLLER, FLANGED BORDER FOR SURFACE MOUNTING, OPTIONAL PLENUM IN 2,3,4 OR 5 FOOT SECTIONS PER PLANS, COLOR PER ARCHITECT.

NOTES:
1. REFER TO THE FLOOR PLANS FOR NECK SIZE, CFM, AIR DIFFUSION PATTERN AND FIRE/DAMPER, IF REQUIRED.
2. PROVIDE AIR CONTROL GRID FOR ALL CEILING SUPPLY DIFFUSERS SET AT 90°.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121814 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/11/2023

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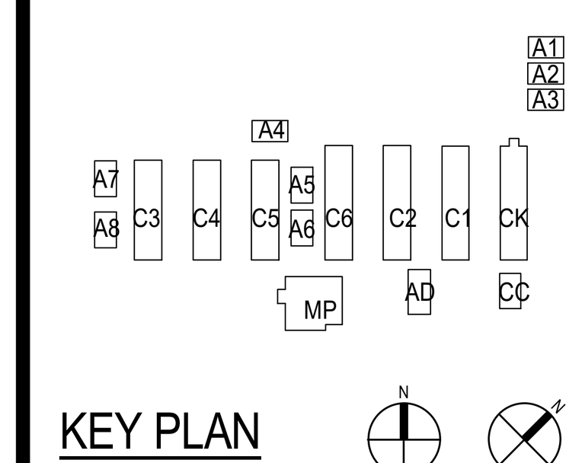
Westminster, CA 92683

DSA SUBMITTAL

DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43



KEY PLAN
NORTH: PLAN TRUE

Consultant

REGISTERED PROFESSIONAL ENGINEER
REX DAVID WANG
No.M36155
Exp.09-30-2024
MECHANICAL
STATE OF CALIFORNIA

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
12-28-2022	220307

REVISIONS

No.	Description	Date

DSA SUBMITTAL

MECHANICAL SCHEDULES

M5.01

FILE PATH: Z:\Projects\...

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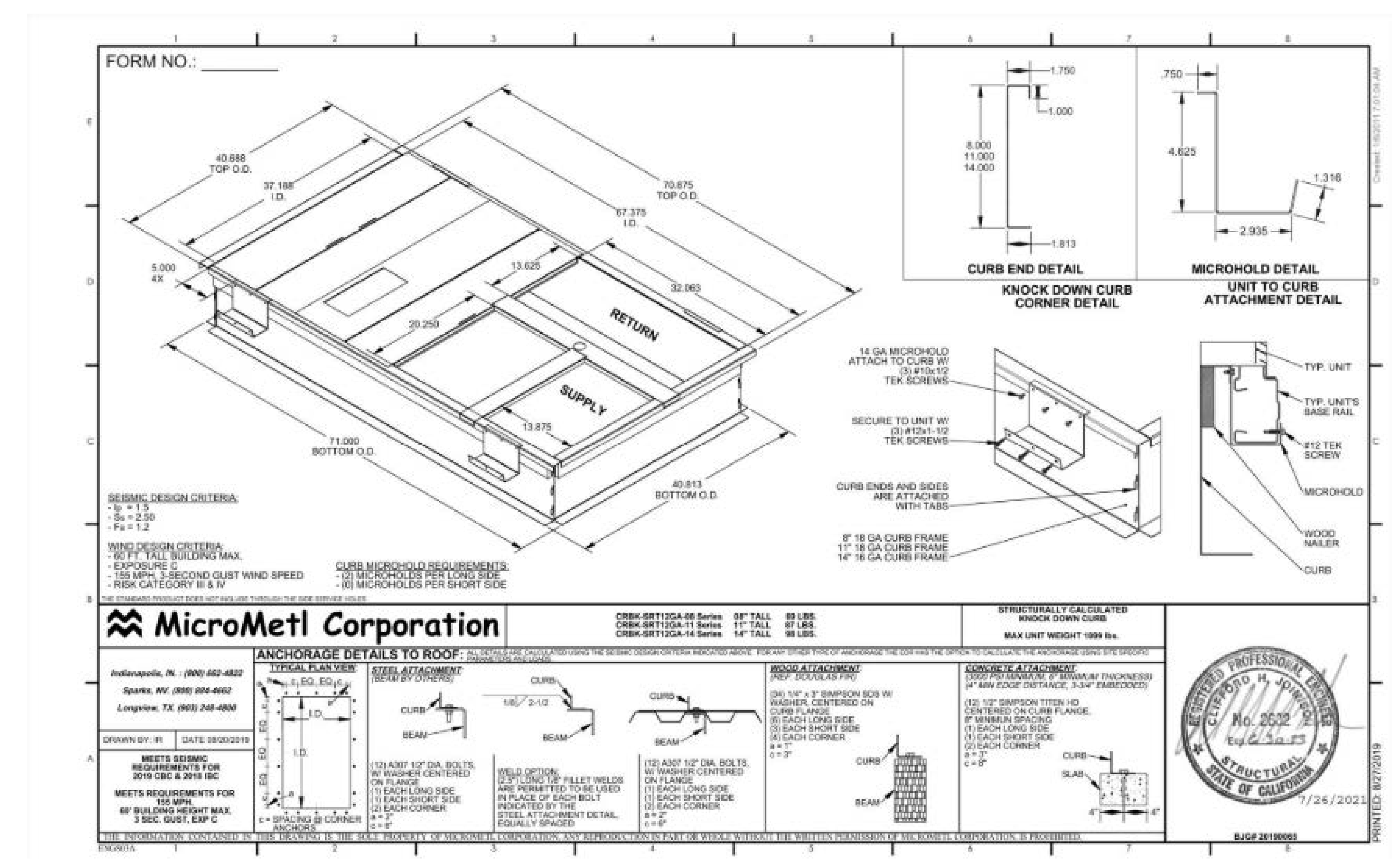
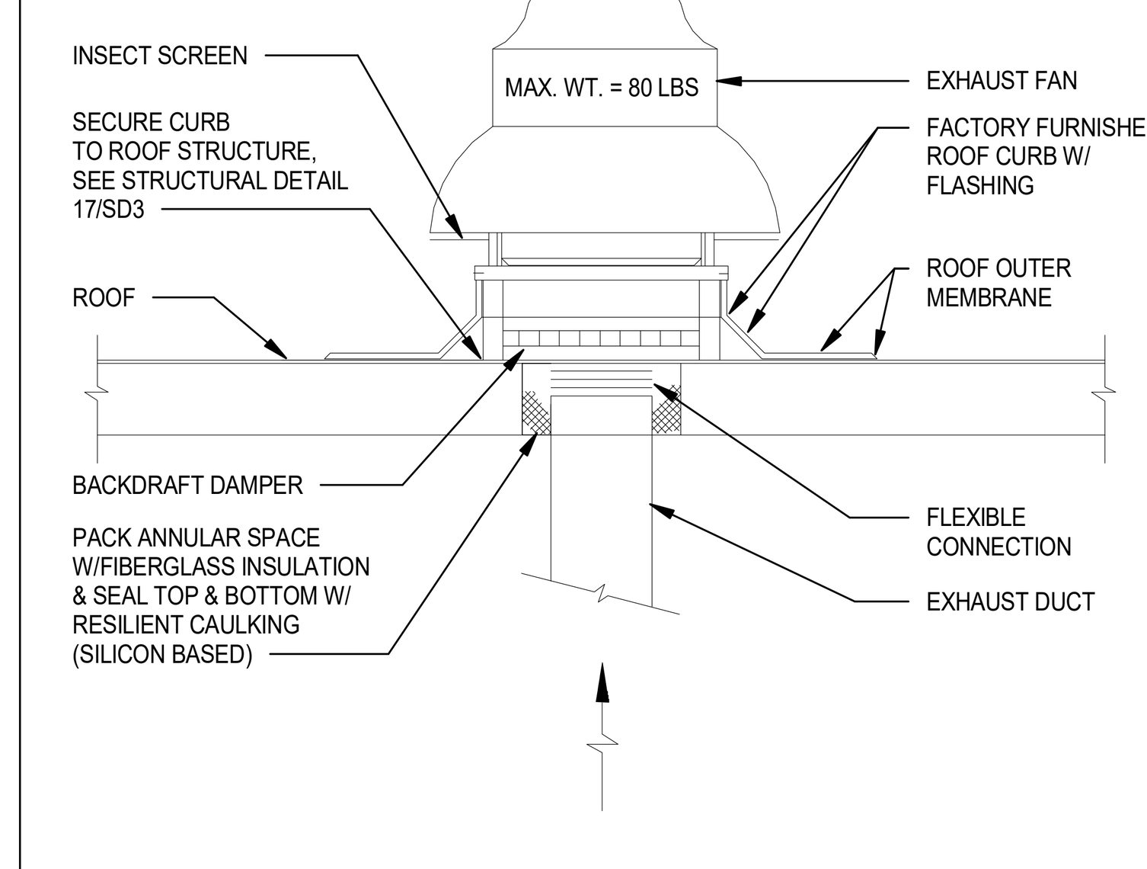
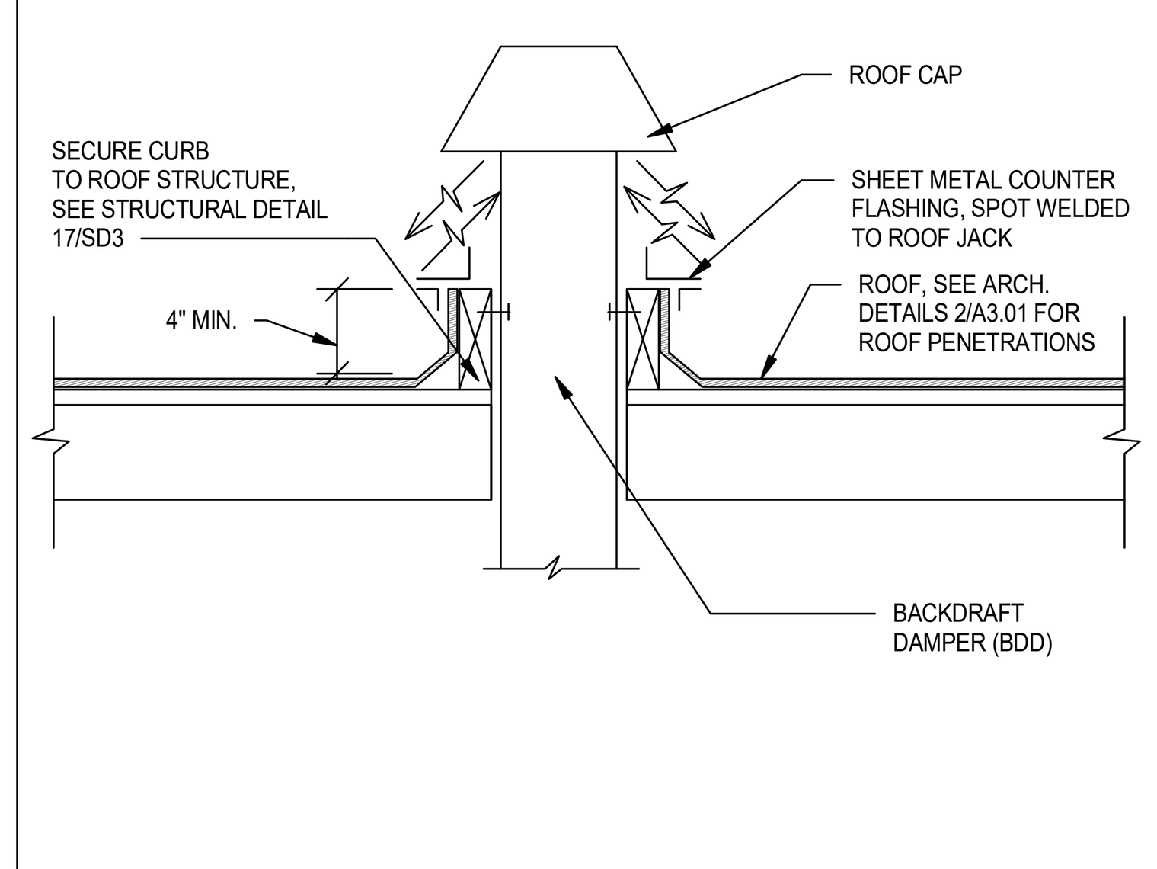


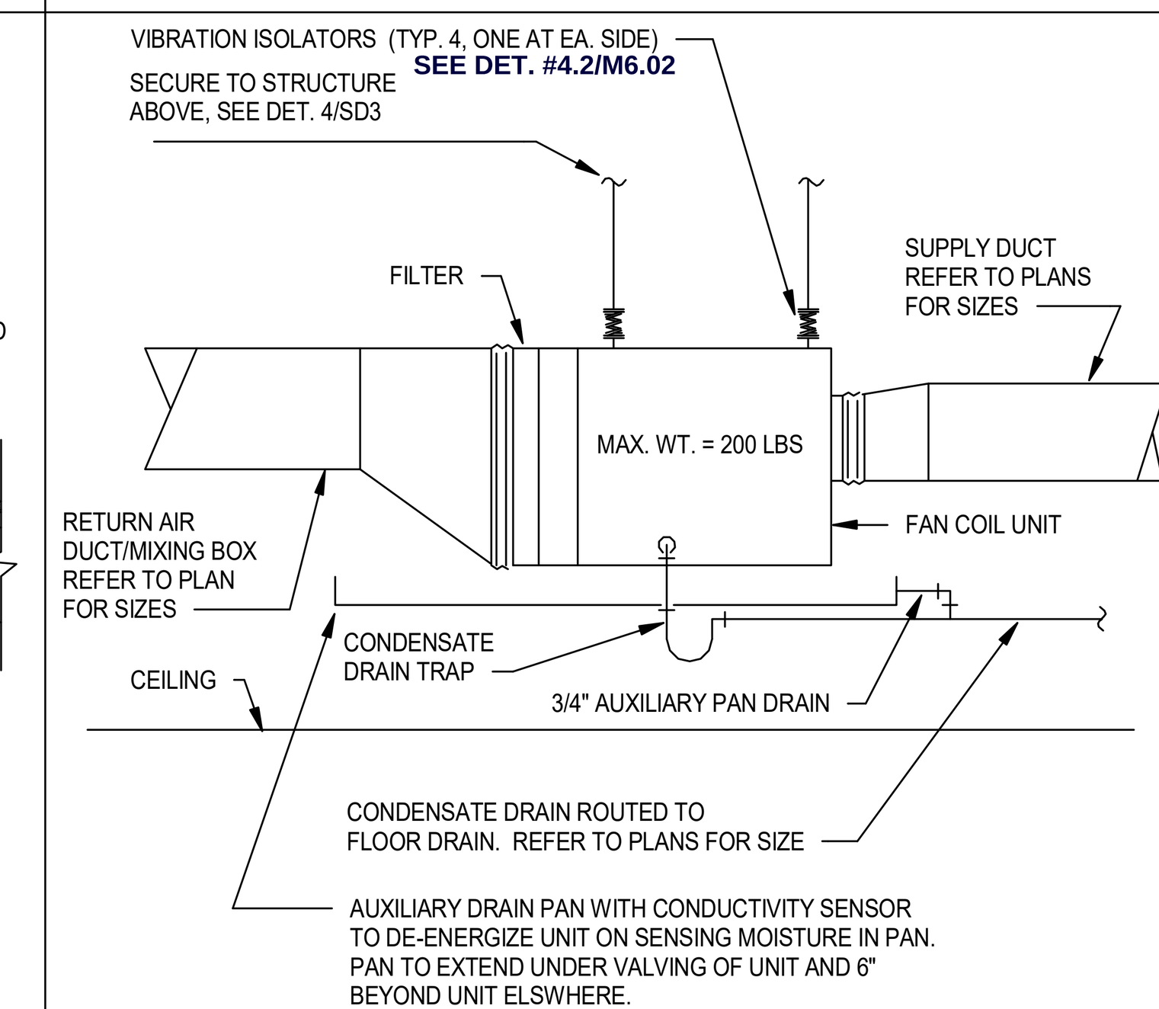
24 ROOF CURB DETAIL FOR A/C UNITS
1 1/2" = 1'-0"



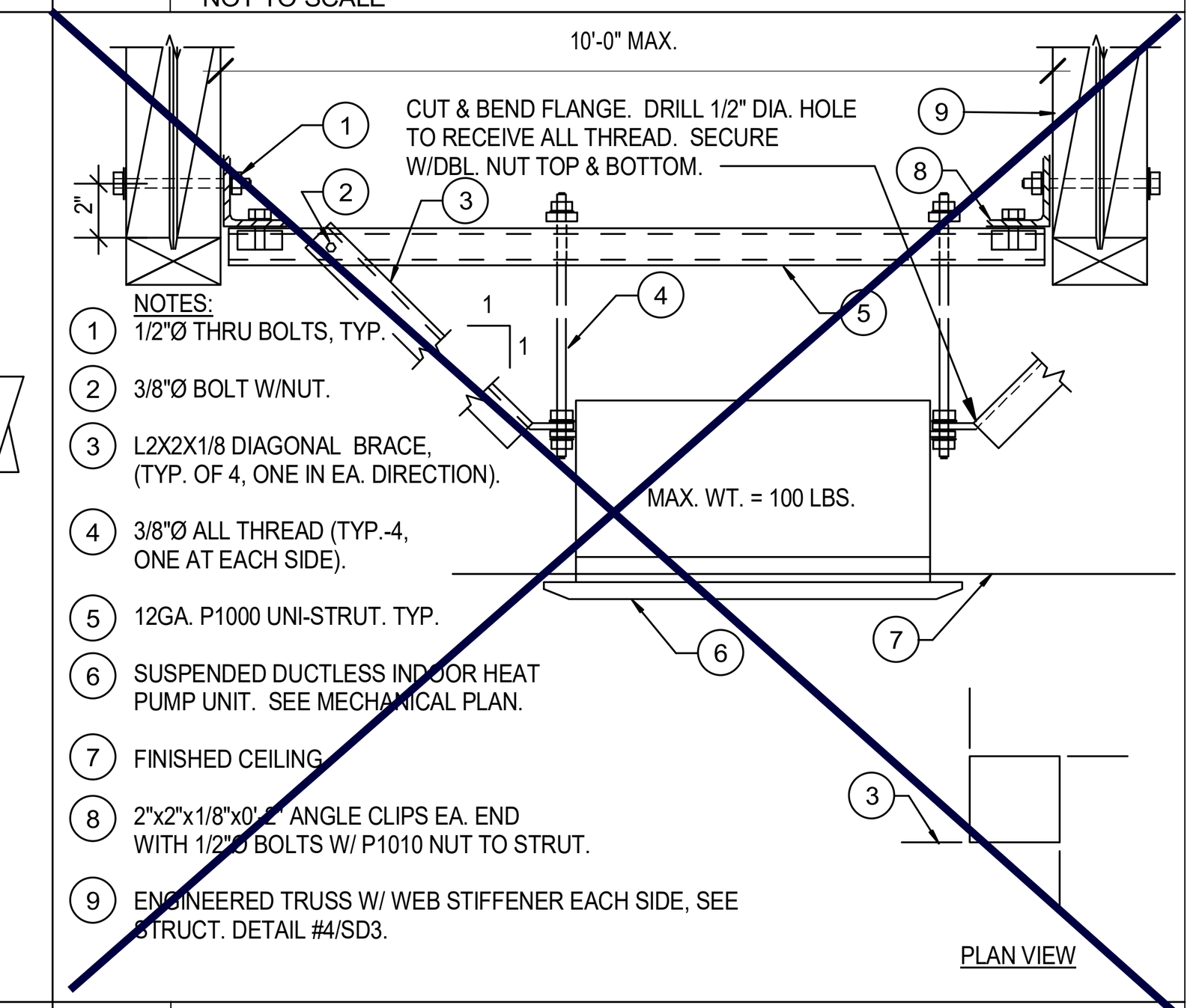
25 ROOF MOUNTED EXHAUST FAN DETAIL
NOT TO SCALE



21 ROOF JACK DETAIL
12" = 1'-0"

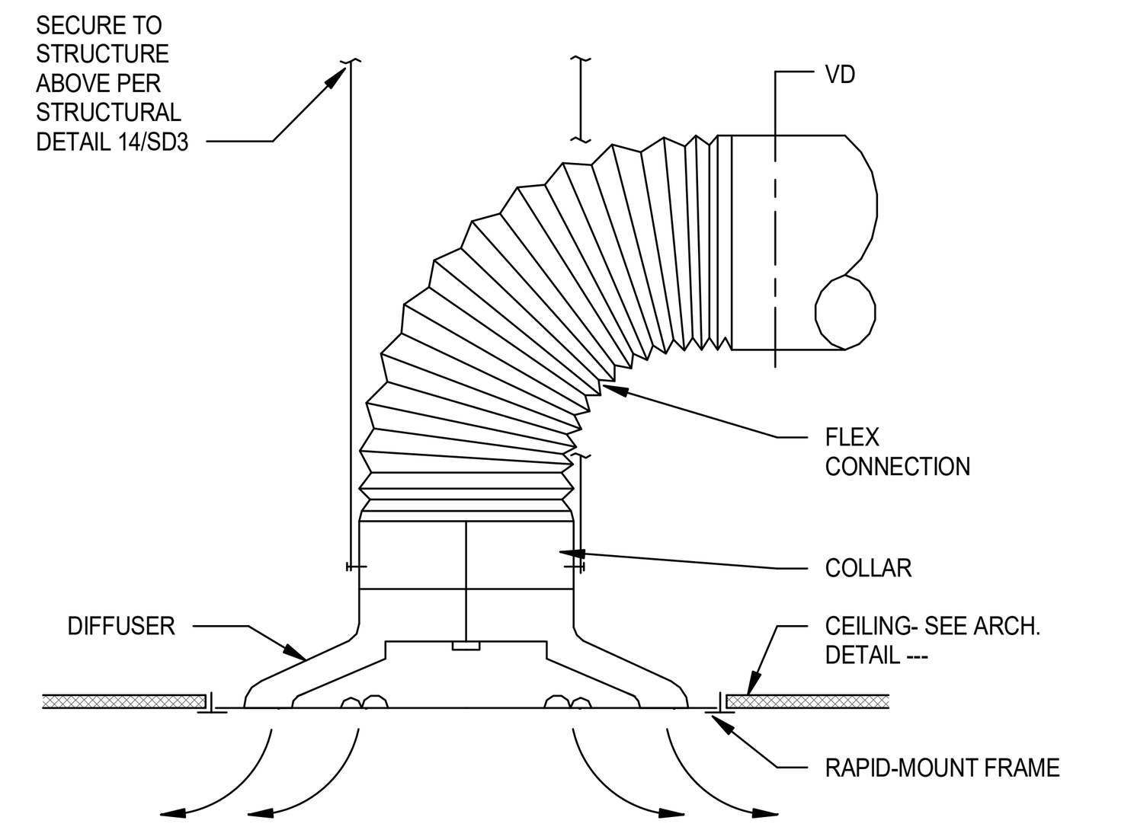


20 DUCTED FAN COIL UNIT DETAIL
NOT TO SCALE



19 DUCTLESS FAN COIL UNIT DETAIL
NOT TO SCALE

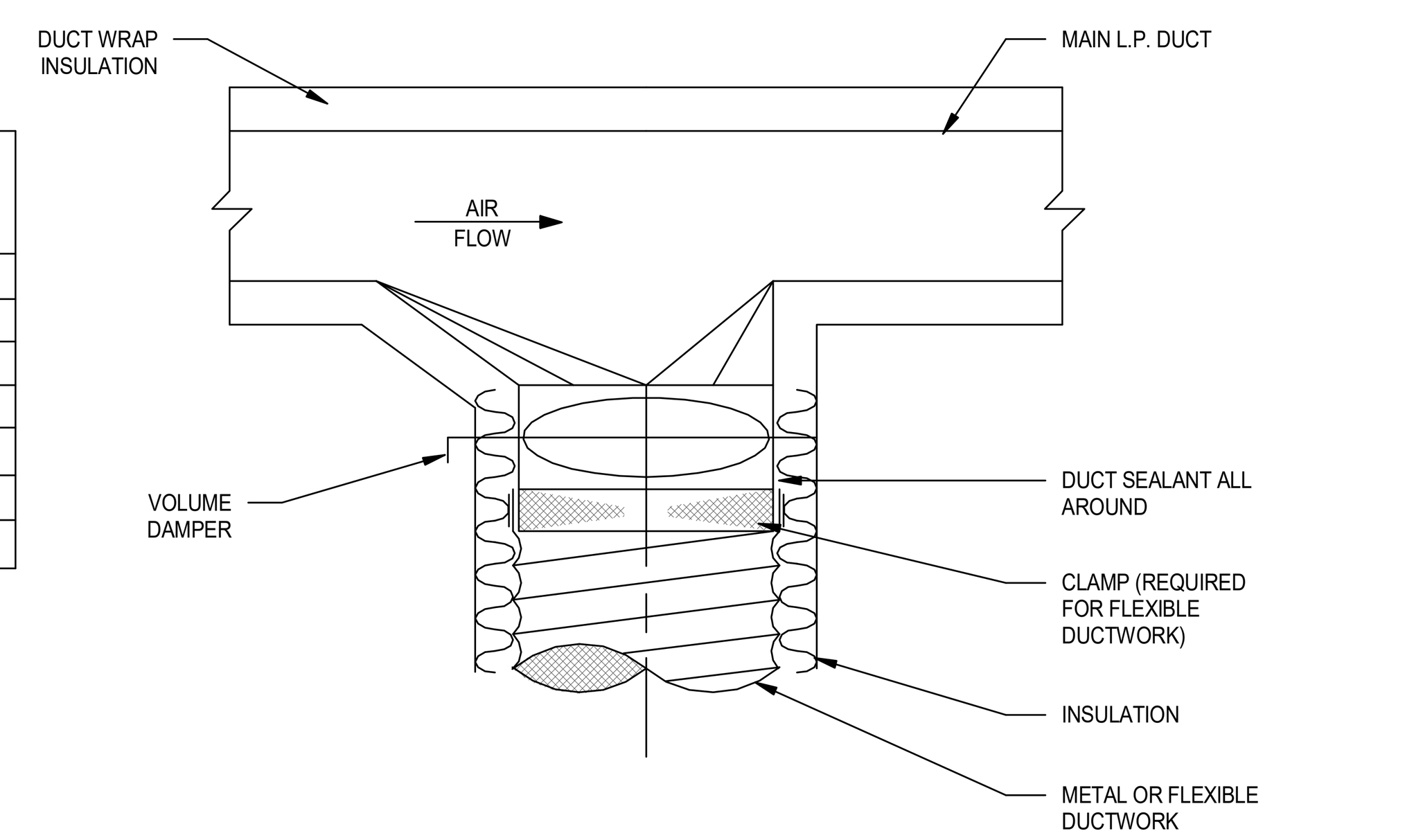
REFER TO STRUCTURAL DETAIL #4/SD3 FOR HANGING AND SUPPORT



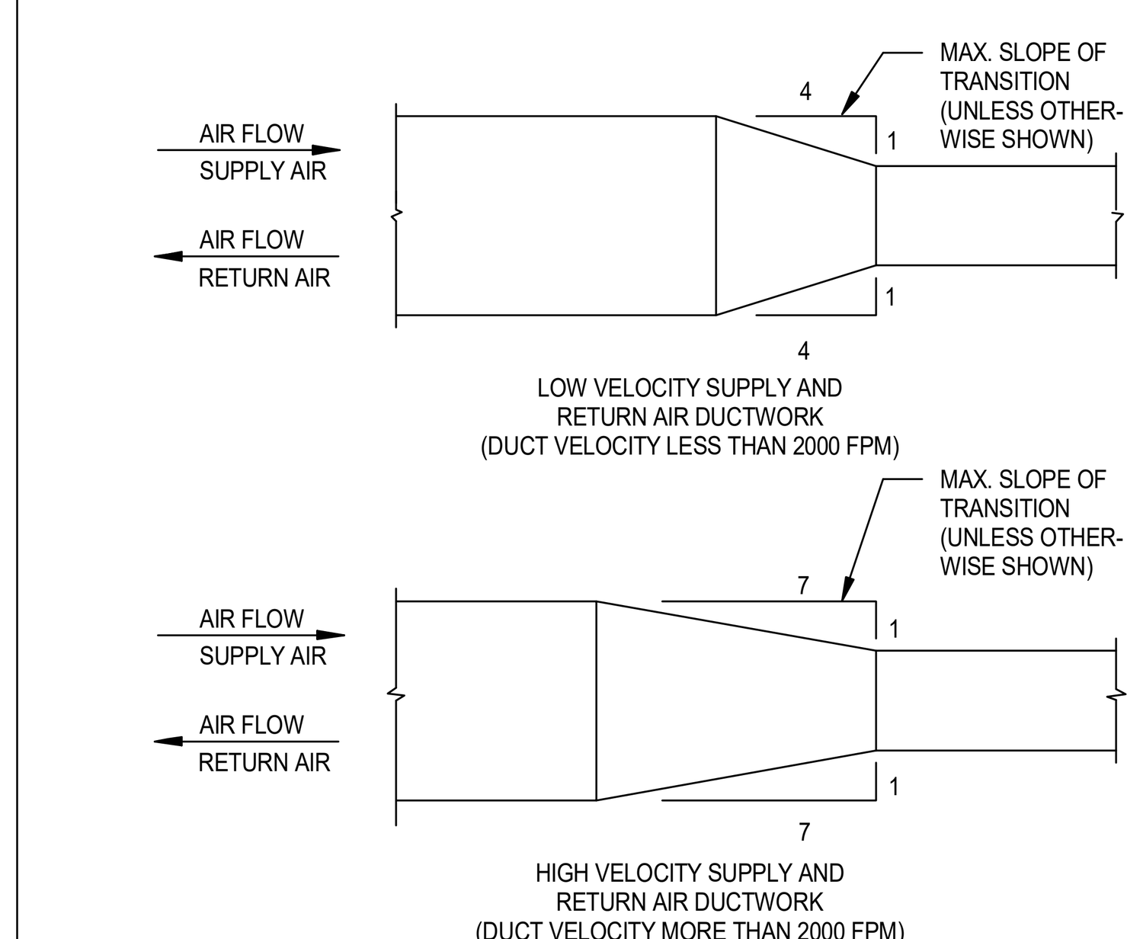
NOTES:
1. REFER TO DETAIL #14/M6.01 FOR FLEXIBLE DUCTWORK DETAIL.
2. LOCATE VOLUME DAMPER AS FAR AWAY FROM DIFFUSER OR GRILLE AS POSSIBLE.

18 HARD LID DIFFUSER CONNECTION DETAIL
NOT TO SCALE

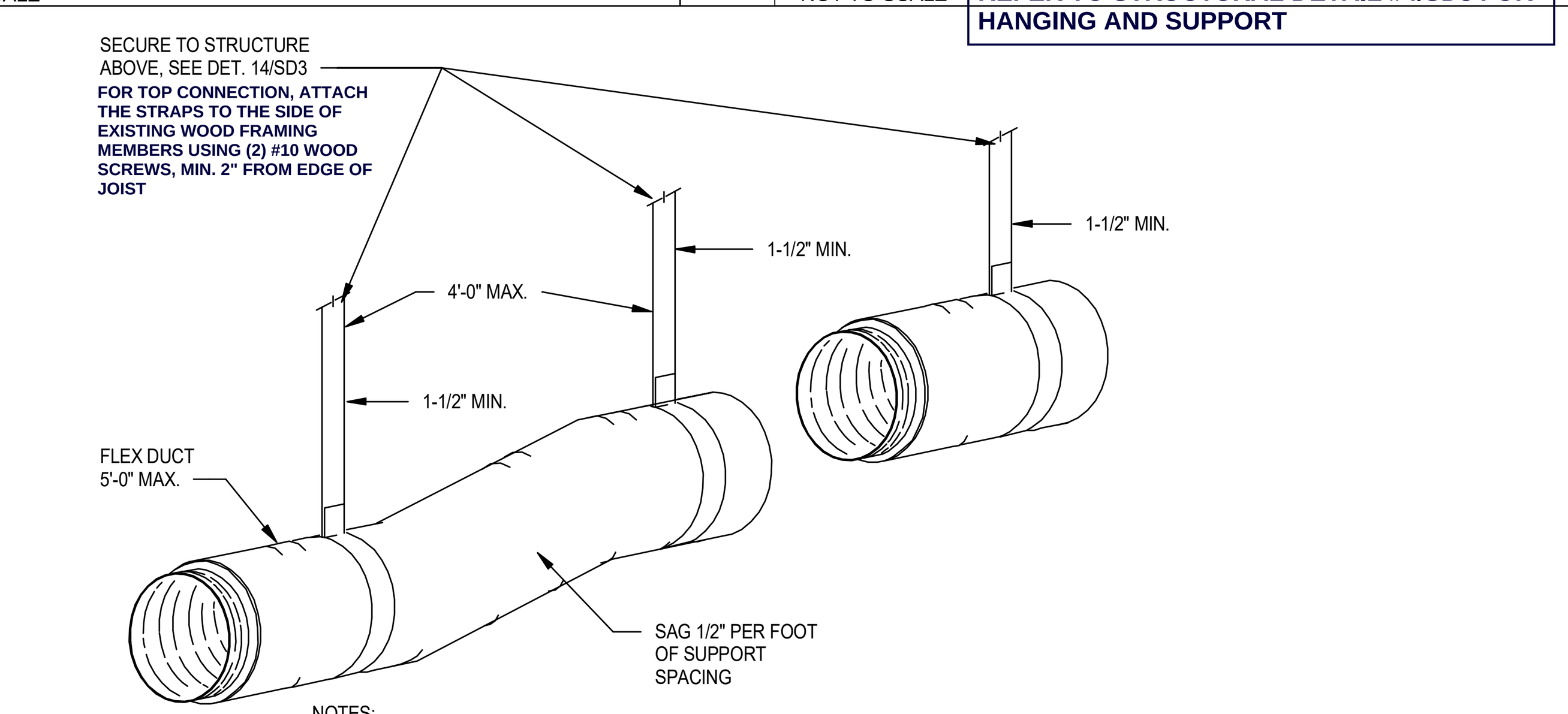
ROUND DUCT SIZE	BUCKLEY TAKE-OFF SIZE	MINIMUM MAIN DUCT DEPTH
6"	6"X12"	8"
8"	6"X12"	8"
9"	6"X14"	8"
10"	6 1/2" X16"	8 1/2"
12"	7 3/4"X18"	9 3/4"
14"	9"X20"	11"
16"	10"X20"	12"



17 RECTANGULAR TO ROUND TRANSITION TAKE-OFF DETAIL
NOT TO SCALE

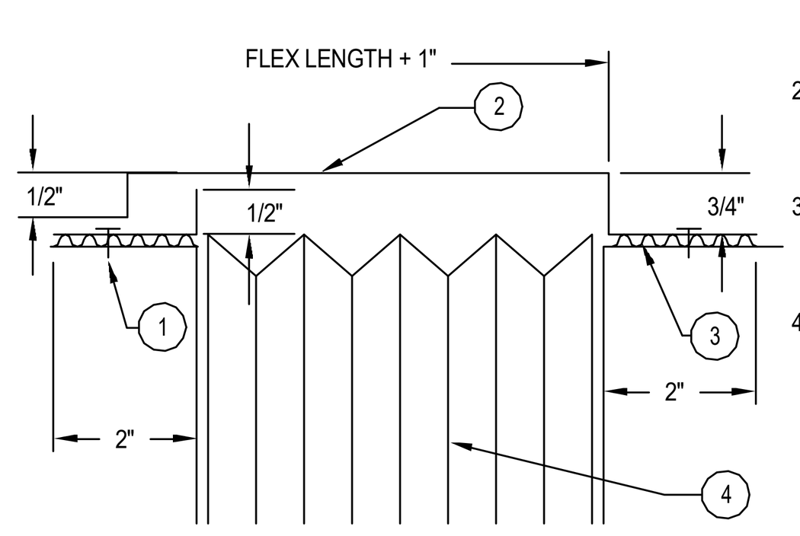


15 RECTANGULAR DUCT TRANSITION DETAIL
NOT TO SCALE



NOTES:
1. INSTALL DUCTWORK PER SMACNA GUIDLINES. REFER TO "SMACNA DUCT CONSTRUCTION STANDARDS, "LATEST EDITION.

14 FLEXIBLE DUCTWORK HANGER DETAIL
NOT TO SCALE

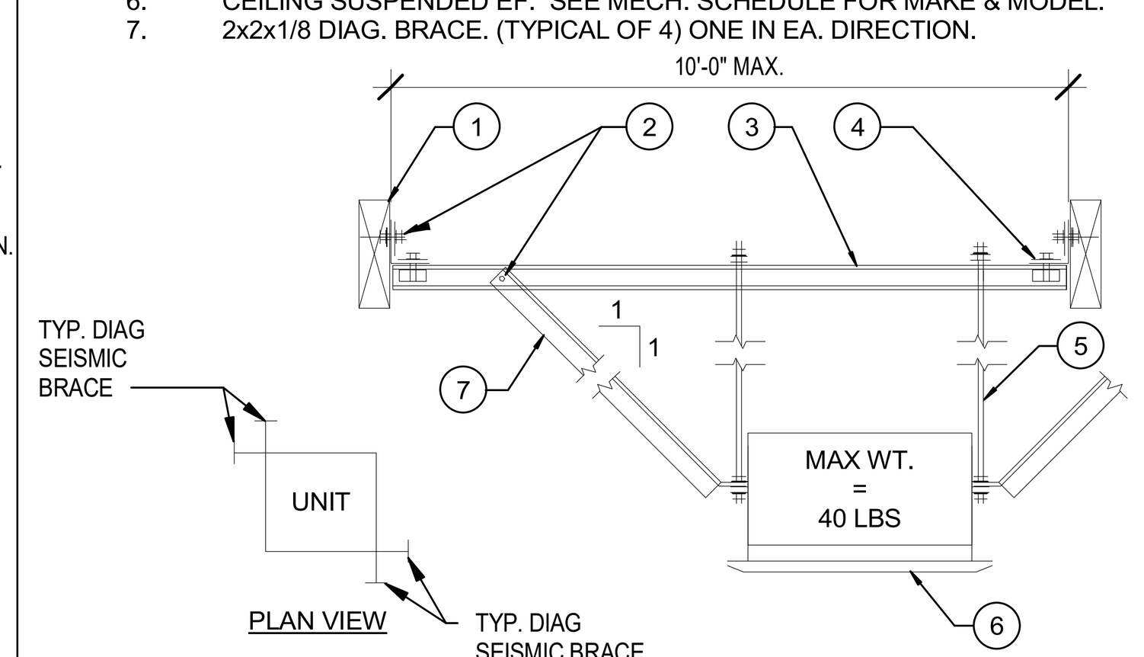


1. SHEET METAL SCREWS @ 16" O.C. SET IN MASTIC (TYPICAL).
2. 24 GAUGE GALVANIZED SHEET METAL COVER (TOP AND SIDES).
3. DUCT SEAL; DURO-DYNE, GLEN-KOTE OR EQUIVALENT. NO MASTIC TO METAL SEAM.
4. FLEXIBLE DUCT CONNECTION.

NOTE:
TO BE INSTALLED ON ALL FLEXIBLE DUCT

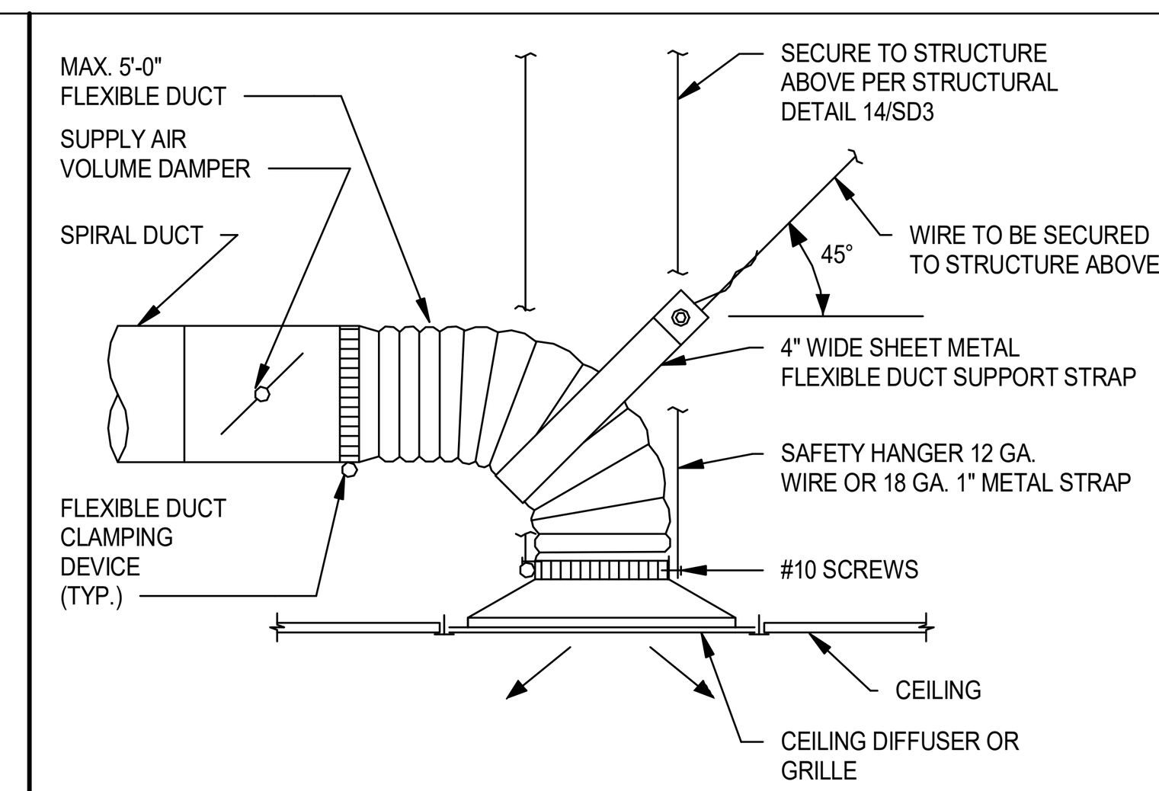
12 FLEX CONNECTOR DETAIL
NOT TO SCALE

1. (E) WOOD BLOCK (TYP.)
2. 3/8"Ø BOLT WITH WASHER AND NUT.
3. L1-5/8"x1"-5/8"x12GA. P-1000 UNI-STRUT C-CHANNEL. (TYP.)
4. UNI-STRUT P1010 NUT TO STRUT (TYP.).
5. 3/8"Ø THREADED ROD, (1) EACH CORNER.
6. CEILING SUSPENDED EF. SEE MECH. SCHEDULE FOR MAKE & MODEL.
7. 2x2x1/8 DIAG. BRACE. (TYPICAL OF 4) ONE IN EA. DIRECTION.



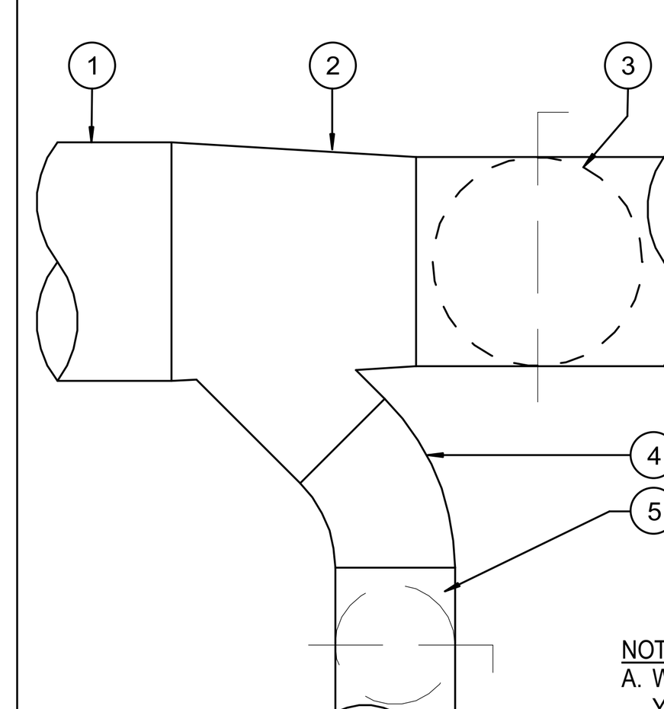
NOTES:
1. REFER TO STRUCTURAL DETAIL 4/SD3 FOR ATTACHMENT TO STRUCTURE.

11 SUSPENDED SUPPLY/EXHAUST FAN DET.
NOT TO SCALE



NOTES:
1. REFER TO DETAIL #14/M6.01 FOR FLEXIBLE DUCTWORK DETAIL.
2. LOCATE VOLUME DAMPER AS FAR AWAY FROM DIFFUSER OR GRILLE AS POSSIBLE.

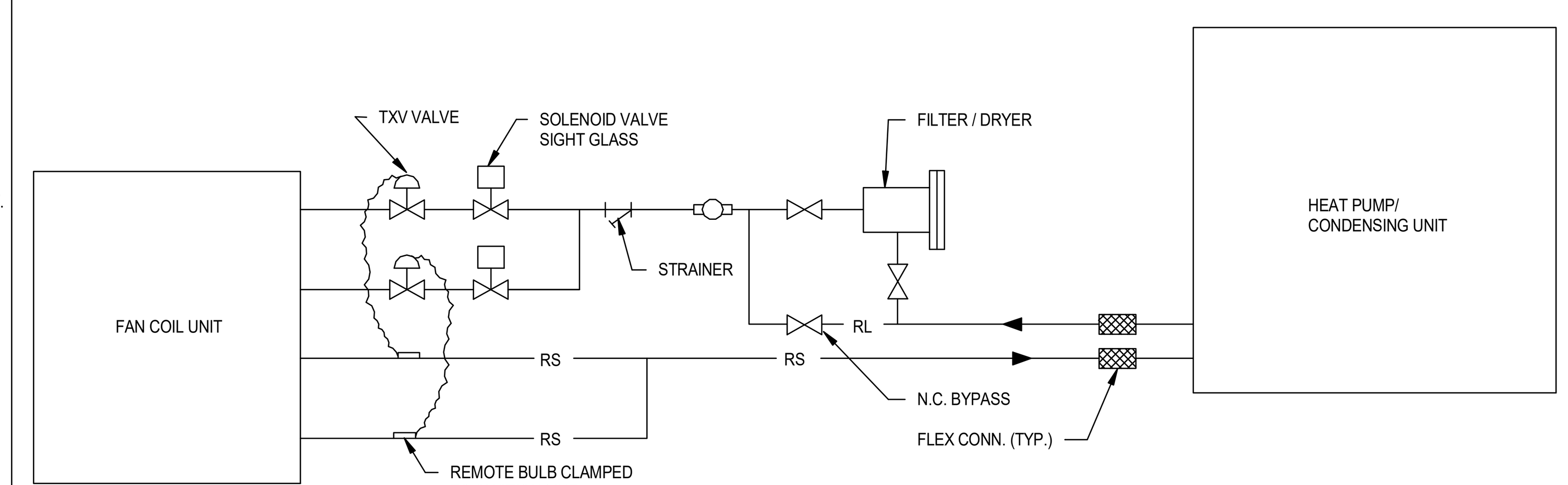
10 LAY IN DIFFUSER CONNECTION DETAIL
NOT TO SCALE



1. SHEET METAL DUCT.
2. SHEET METAL TAPER WITH BRANCH STUB.
3. DAMPER AT END OF DUCT RUN ONLY.
4. BRANCH TAKE-OFF.
5. BUTTERFLY DAMPER W/ LOCKING QUAD. (TYP)

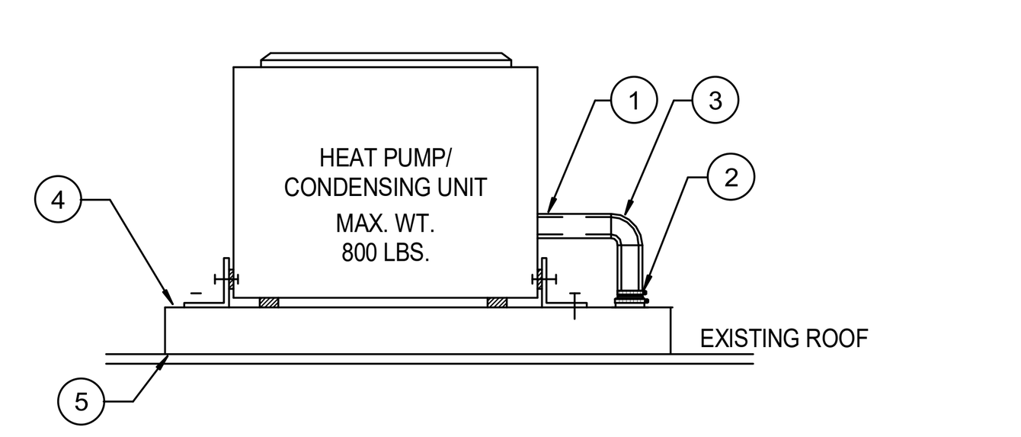
NOTE:
A. WHERE DAMPER IS INACCESSIBLE PROVIDE YOUNG REGULATOR MODEL 270-301 CABLE KIT WITH EITHER 820A-CC (RECTANGULAR OR 5020-CC (ROUND) DAMPER.
B. PROVIDE DAMPER WITH LOCKING QUADRANT AT ALL SINGLE RUNOUTS.

9 BRANCH DUCT DAMPER DETAIL
NOT TO SCALE



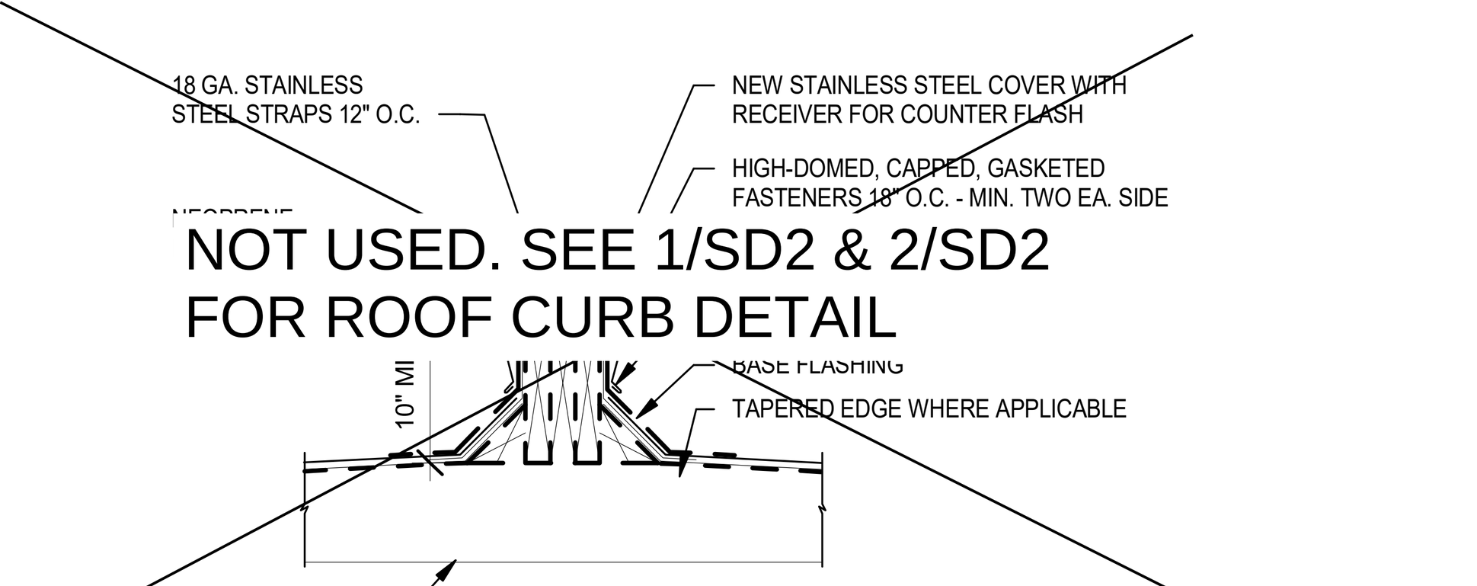
NOTE:
1. TYPICAL OF 2 INDEPENDENT CIRCUTS.
2. ALL REFRIGERANT PIPING TO BE SIZED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

8 REFRIGERANT PIPING SCHEMATIC DETAIL
NOT TO SCALE



NOTES:
1. INSULATED REFRIGERANT PIPES THRU CURB. PIPES, THRU CURB.
2. PROVIDE GRADULATED STEP BOOT WITH STSAINLESS STEEL CLAMPS BY THE PATE COMPANY. BOOT JOINT AT CURB, SHALL BE MADE WATER TIGHT.
3. INSULATED, ALUMINUM WRAP REFRIGERANT PIPES, THRU CURB.
4. HEAT PUMP/CONDENSING UNIT'S PLATFORM WITH NEOPRENE PAD.
5. SEE STRUCTURAL DETAIL 12/SD1 FOR ATTACHEMENT TO STRUCTURE.

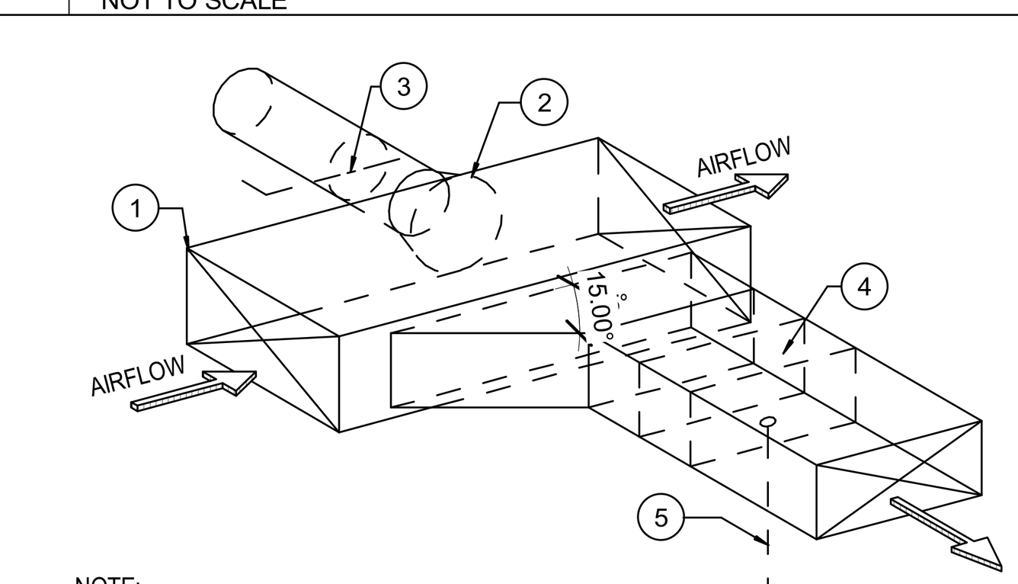
6 HP/CU ROOF MOUNTING DETAIL
NOT TO SCALE



NOT USED. SEE 1/SD2 & 2/SD2 FOR ROOF CURB DETAIL

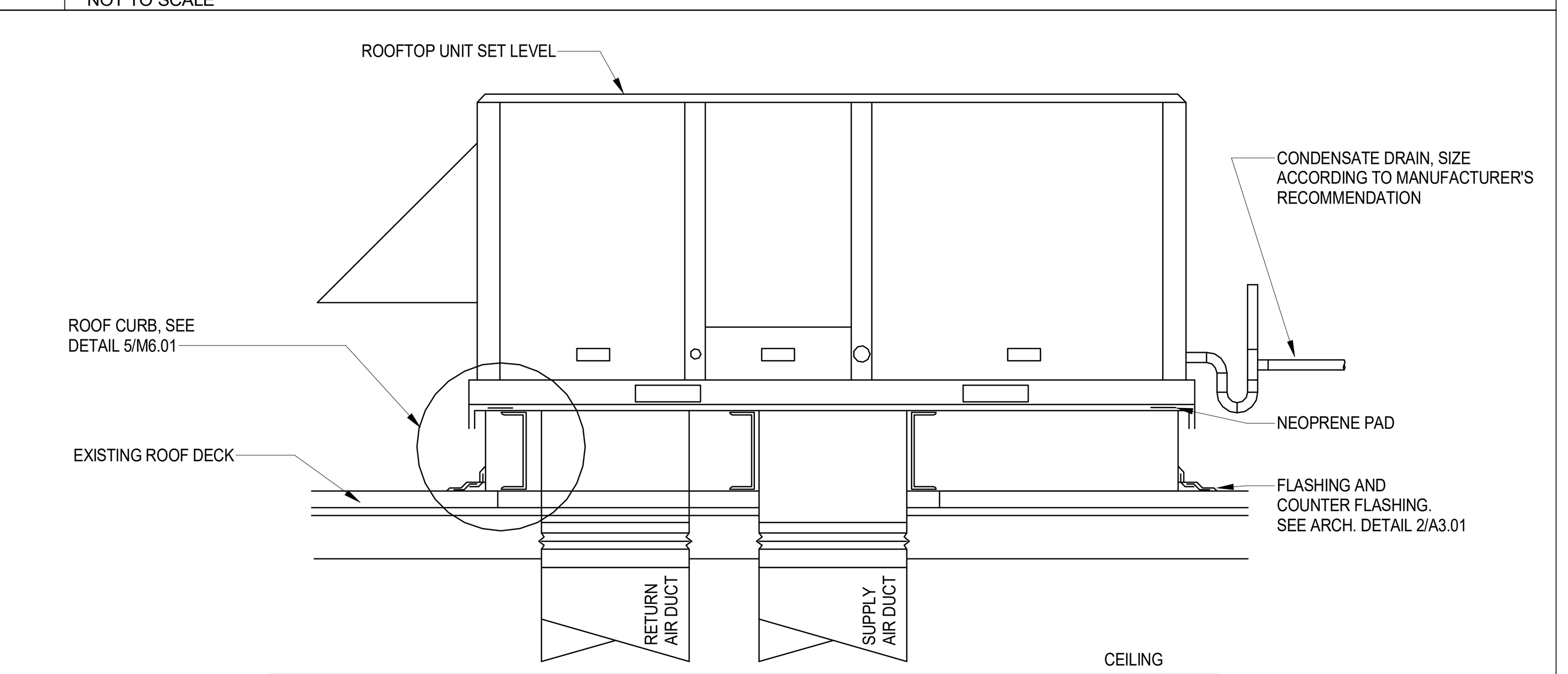
NOTES:
1. REFER TO STRUCTURAL DETAILS 1/SD2 AND 2/SD2 FOR CURB DETAILS AND ATTACHMENT TO STRUCTURE.

5 A/C UNIT'S ROOF CURB DETAIL
NOT TO SCALE



NOTE:
WHERE DAMPER IS INACCESSIBLE PROVIDE YOUNG REGULATOR MODEL 270-301 CABLE KIT WITH EITHER 830A-CC (RECTANGULAR) OR 5020-CC (ROUND) DAMPER.
1. RECTANGULAR GALVANIZED SHEET METAL SUPPLY AIR DUCT - SEE MECHANICAL PLAN FOR SIZE.
2. CUT OPENING ACCURATELY FOR SPIN IN (FLARED) FITTING - WHERE POSSIBLE.
3. BUTTERFLY DAMPER W/ LOCKING QUAD. (TYP)
4. VOLUME CONTROL DAMPER WITH LOCKING QUADRANT.
5. DAMPER REGULATOR

3 BRANCH DUCT TAKE-OFF & DMP. DETAIL
NOT TO SCALE



2 ROOF TOP UNIT DETAIL
NOT TO SCALE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121814 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/11/2023

PBK

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Costa Mesa, CA 92626
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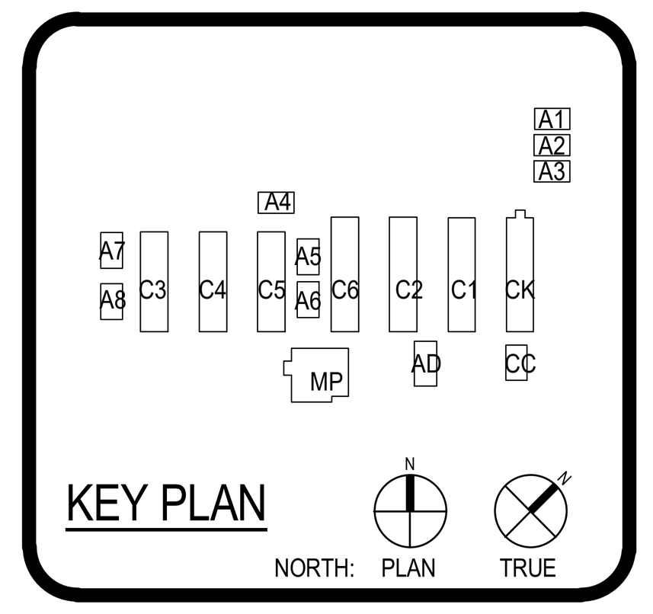
LEAF ENGINEERS
8163 Rochester Avenue, Suite 100
Rancho Cucamonga, CA 91730
909.987-0909
leafengineers.com

FINLEY ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
13521 Edwards St.,
Westminster, CA 92683

DSA SUBMITTAL
DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43



Consultant

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
12-28-2022	220307

REVISIONS

No.	Description	Date

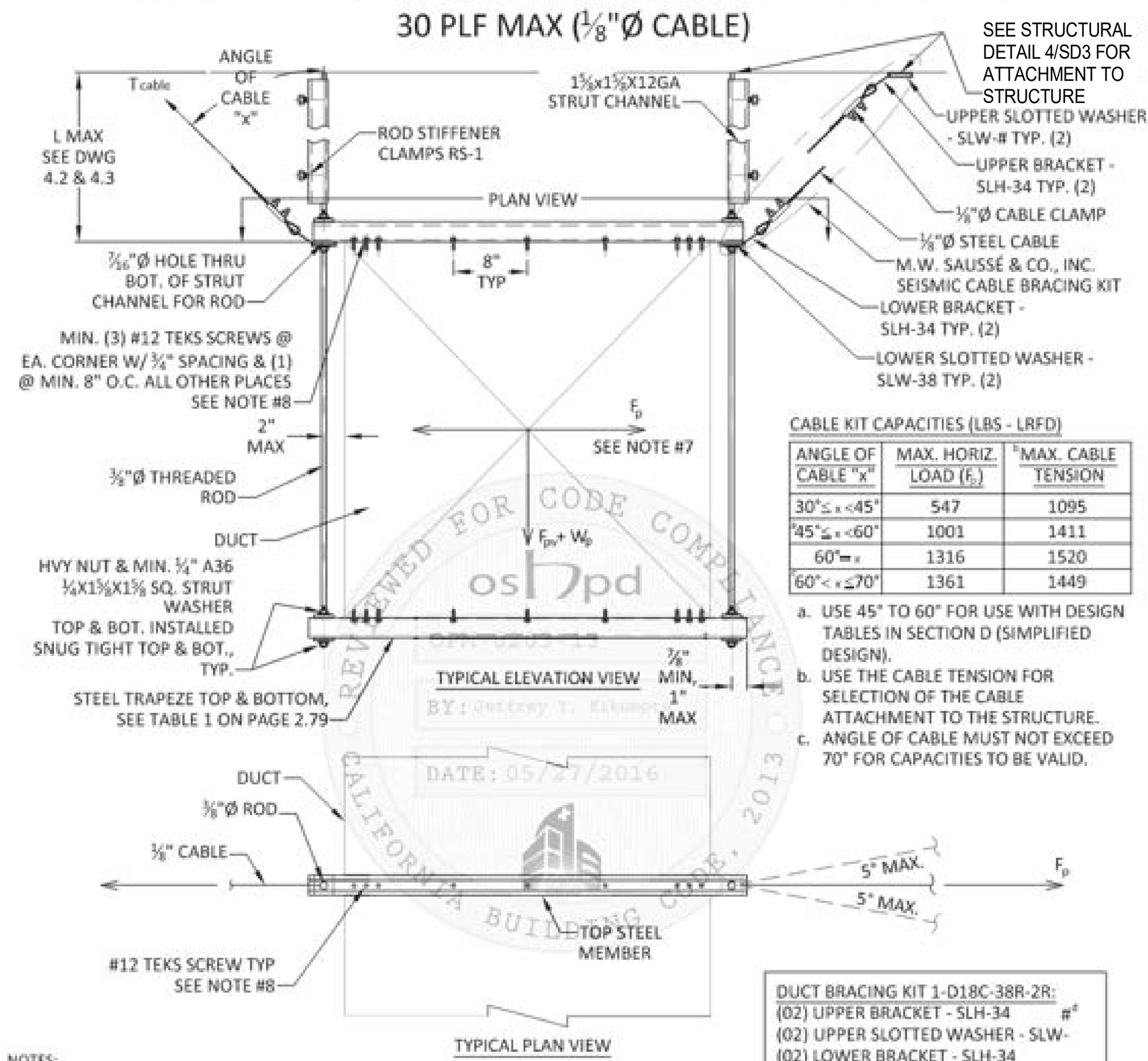
DSA SUBMITTAL

MECHANICAL DETAILS

M6.01

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121814 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/11/2023

CABLE BRACING SYSTEM - TRAPEZE HUNG DUCT - TRANSVERSE 30 PLF MAX (1/8"Ø CABLE)



CABLE KIT CAPACITIES (LBS - LRFD)

ANGLE OF CABLE "x"	MAX. HORIZ. LOAD (F_p)	[b]MAX. CABLE TENSION
30°≤ x <45°	547	1095
[a]45°≤ x <60°	1001	1411
60°= x	1316	1520
[c]60°< x ≤70°	1361	1449

a. USE 45° TO 60° FOR USE WITH DESIGN TABLES IN SECTION D (SIMPLIFIED DESIGN).
b. USE THE CABLE TENSION FOR SELECTION OF THE CABLE ATTACHMENT TO THE STRUCTURE.
c. ANGLE OF CABLE MUST NOT EXCEED 70° FOR CAPACITIES TO BE VALID.

DUCT BRACING KIT 1-D18C-38R-2R:
(02) UPPER BRACKET - SLH-34
(02) UPPER SLOTTED WASHER - SLW-#[d]
(02) LOWER BRACKET - SLH-34
(02) LOWER SLOTTED WASHER - SLW-38
(04) ROD STIFFENER CLAMPS - RS-1
(02) ⅛" CABLE - 10 FT.
(04) ⅛" CABLE CLAMPS

d. UPPER SLOTTED WASHER TO MATCH SELECTED ATTACHMENT.

NOTES:
1. CABLE IS 7 X 19 GALVANIZED STEEL CABLE. SEE PG 4.5
2. CABLES TO BE INSTALLED TAUT W/O SLACK. CAUTION - CABLE MUST NOT SUSTAIN ANY DEAD LOAD.
3. SEE PAGE 4.2 & 3 FOR ROD STIFFENER DETAIL & REQUIREMENTS.
4. SEE PAGE 4.4 FOR BRACKET - SLH-34 AND SLOTTED WASHER - SLW-XX DETAIL.
5. SEE PAGE 4.5 FOR CABLE CLAMP DETAIL.
6. TEKS SCREWS MUST BE PER ICC ESR-1976.
7. RDP SHALL CONSIDER THE ECCENTRIC LOAD DISTRIBUTION WHEN DETERMINING THE F_p VALUE USED IN THE DESIGN
8. USE SHORTEST SMS POSSIBLE WHEN PENETRATING DUCTWORK TO MINIMIZE AIRFLOW NOISE INSIDE THE DUCT (FEMA 414).

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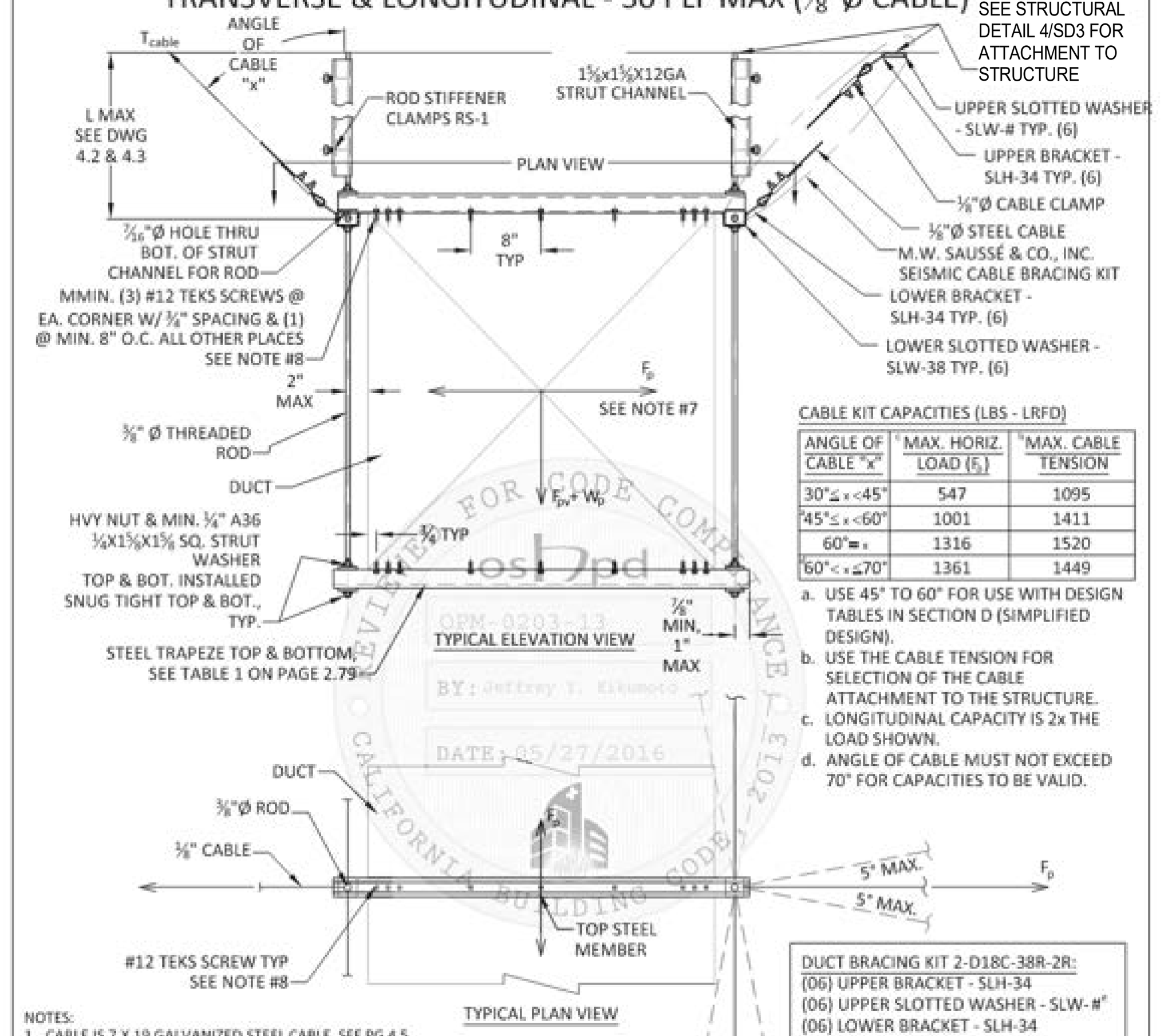
CABLE BRACING SYSTEM - TRAPEZE HUNG DUCT TRANSVERSE & LONGITUDINAL - 30 PLF MAX (1/8"Ø CABLE)



CABLE KIT CAPACITIES (LBS - LRFD)

ANGLE OF CABLE "x"	[c]MAX. HORIZ. LOAD (F_p)	[b]MAX. CABLE TENSION
30°≤ x <45°	547	1095
[a]45°≤ x <60°	1001	1411
60°= x	1316	1520
[d]60°< x ≤70°	1361	1449

a. USE 45° TO 60° FOR USE WITH DESIGN TABLES IN SECTION D (SIMPLIFIED DESIGN).
b. USE THE CABLE TENSION FOR SELECTION OF THE CABLE ATTACHMENT TO THE STRUCTURE.
c. LONGITUDINAL CAPACITY IS 2x THE LOAD SHOWN.
d. ANGLE OF CABLE MUST NOT EXCEED 70° FOR CAPACITIES TO BE VALID.

DUCT BRACING KIT 2-D18C-38R-2R:
(06) UPPER BRACKET - SLH-34
(06) UPPER SLOTTED WASHER - SLW-#[e]
(06) LOWER BRACKET - SLH-34
(06) LOWER SLOTTED WASHER - SLW-38
(04) ROD STIFFENER CLAMPS - RS-1
(06) ⅛" CABLE - 10 FT.
(12) ⅛" CABLE CLAMPS

e. UPPER SLOTTED WASHER TO MATCH SELECTED ATTACHMENT.

NOTES:
1. CABLE IS 7 X 19 GALVANIZED STEEL CABLE. SEE PG 4.5
2. CABLES TO BE INSTALLED TAUT W/O SLACK. CAUTION - CABLE MUST NOT SUSTAIN ANY DEAD LOAD.
3. SEE PAGE 4.2 & 3 FOR ROD STIFFENER DETAIL & REQUIREMENTS.
4. SEE PAGE 4.4 FOR BRACKET - SLH-34 AND SLOTTED WASHER - SLW-XX DETAIL.
5. SEE PAGE 4.5 FOR CABLE CLAMP DETAIL.
6. TEKS SCREWS MUST BE PER ICC ESR-1976.
7. RDP SHALL CONSIDER THE ECCENTRIC LOAD DISTRIBUTION WHEN DETERMINING THE F_p VALUE USED IN THE DESIGN
8. USE SHORTEST SMS POSSIBLE WHEN PENETRATING DUCTWORK TO MINIMIZE AIRFLOW NOISE INSIDE THE DUCT (FEMA 414).

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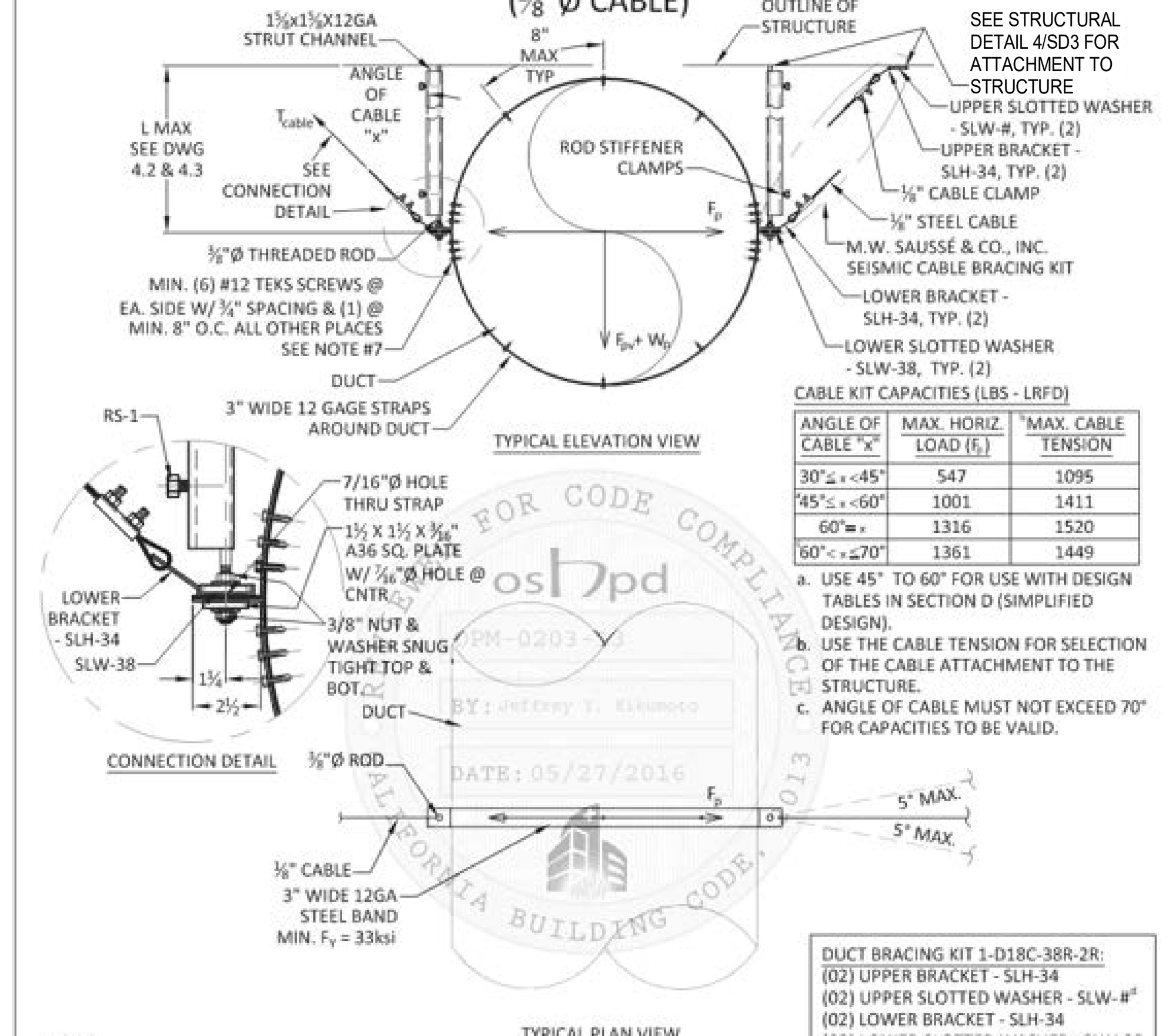
CABLE BRACING SYSTEM - HUNG ROUND DUCT - TRANSVERSE - 30 PLF MAX (1/8"Ø CABLE)



CABLE KIT CAPACITIES (LBS - LRFD)

ANGLE OF CABLE "x"	MAX. HORIZ. LOAD (F_p)	[b]MAX. CABLE TENSION
30°≤ x <45°	547	1095
[a]45°≤ x <60°	1001	1411
60°= x	1316	1520
[c]60°< x ≤70°	1361	1449

a. USE 45° TO 60° FOR USE WITH DESIGN TABLES IN SECTION D (SIMPLIFIED DESIGN).
b. USE THE CABLE TENSION FOR SELECTION OF THE CABLE ATTACHMENT TO THE STRUCTURE.
c. ANGLE OF CABLE MUST NOT EXCEED 70° FOR CAPACITIES TO BE VALID.

DUCT BRACING KIT 1-D18C-38R-2R:
(02) UPPER BRACKET - SLH-34
(02) UPPER SLOTTED WASHER - SLW-#[d]
(02) LOWER BRACKET - SLH-34
(02) LOWER SLOTTED WASHER - SLW-38
(04) ROD STIFFENER CLAMPS - RS-1
(02) ⅛" CABLE - 10 FT.
(04) ⅛" CABLE CLAMPS

d. UPPER SLOTTED WASHER TO MATCH SELECTED ATTACHMENT.

NOTES:
1. CABLE IS 7 X 19 GALVANIZED STEEL CABLE. SEE PAGE 4.5.
2. CABLES TO BE INSTALLED TAUT W/O SLACK. CAUTION - CABLE MUST NOT SUSTAIN ANY DEAD LOAD.
3. SEE PAGE 4.2 & 3 FOR ROD STIFFENER DETAIL & REQUIREMENTS.
4. SEE PAGE 4.4 FOR BRACKET - SLH-34 AND SLOTTED WASHER - SLW-XX DETAIL.
5. SEE PAGE 4.5 FOR CABLE CLAMP DETAIL.
6. TEKS SCREWS MUST BE PER ICC ESR-1976.
7. USE SHORTEST SMS POSSIBLE WHEN PENETRATING DUCTWORK TO MINIMIZE AIRFLOW NOISE INSIDE THE DUCT (FEMA 414).

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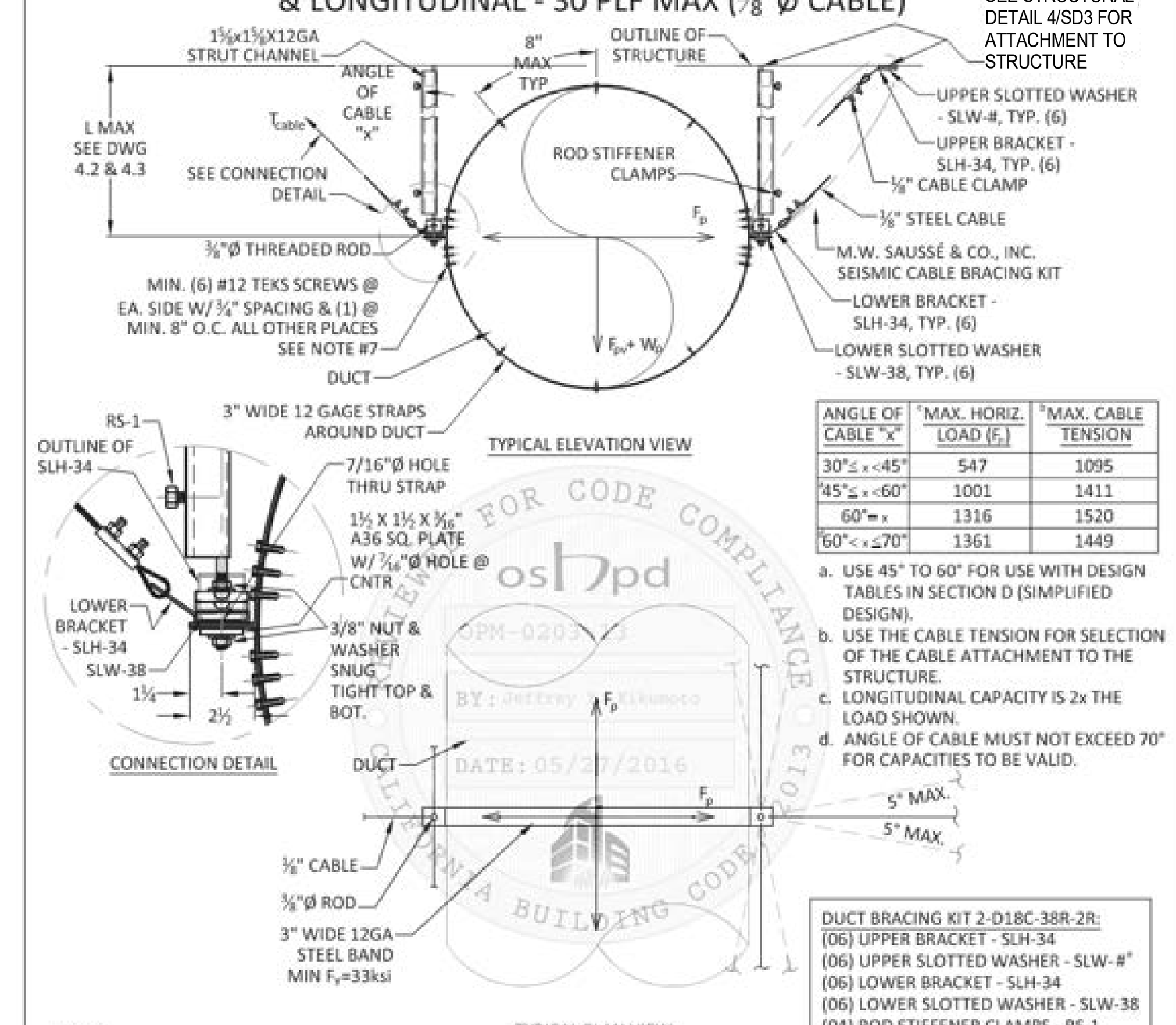
CABLE BRACING SYSTEM - HUNG ROUND DUCT - TRANSVERSE & LONGITUDINAL - 30 PLF MAX (1/8"Ø CABLE)



ANGLE OF CABLE "x"	[c]MAX. HORIZ. LOAD (F_p)	[b]MAX. CABLE TENSION
30°≤ x <45°	547	1095
[a]45°≤ x <60°	1001	1411
60°= x	1316	1520
[d]60°< x ≤70°	1361	1449

a. USE 45° TO 60° FOR USE WITH DESIGN TABLES IN SECTION D (SIMPLIFIED DESIGN).
b. USE THE CABLE TENSION FOR SELECTION OF THE CABLE ATTACHMENT TO THE STRUCTURE.
c. LONGITUDINAL CAPACITY IS 2x THE LOAD SHOWN.
d. ANGLE OF CABLE MUST NOT EXCEED 70° FOR CAPACITIES TO BE VALID.

DUCT BRACING KIT 2-D18C-38R-2R:
(06) UPPER BRACKET - SLH-34
(06) UPPER SLOTTED WASHER - SLW-#[e]
(06) LOWER BRACKET - SLH-34
(06) LOWER SLOTTED WASHER - SLW-38
(04) ROD STIFFENER CLAMPS - RS-1
(06) ⅛" CABLE - 10 FT.
(12) ⅛" CABLE CLAMPS

e. UPPER SLOTTED WASHER TO MATCH SELECTED ATTACHMENT.

NOTES:
1. CABLE IS 7 X 19 GALVANIZED STEEL CABLE. SEE PAGE 4.5.
2. CABLES TO BE INSTALLED TAUT W/O SLACK. CAUTION - CABLE MUST NOT SUSTAIN ANY DEAD LOAD.
3. SEE PAGE 4.2 & 3 FOR ROD STIFFENER DETAIL & REQUIREMENTS.
4. SEE PAGE 4.4 FOR BRACKET - SLH-34 AND SLOTTED WASHER - SLW-XX DETAIL.
5. SEE PAGE 4.5 FOR CABLE CLAMP DETAIL.
6. TEKS SCREWS MUST BE PER ICC ESR-1976.
7. USE SHORTEST SMS POSSIBLE WHEN PENETRATING DUCTWORK TO MINIMIZE AIRFLOW NOISE INSIDE THE DUCT (FEMA 414).

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RS-1 - ROD STIFFENER DETAILS & REQUIREMENTS

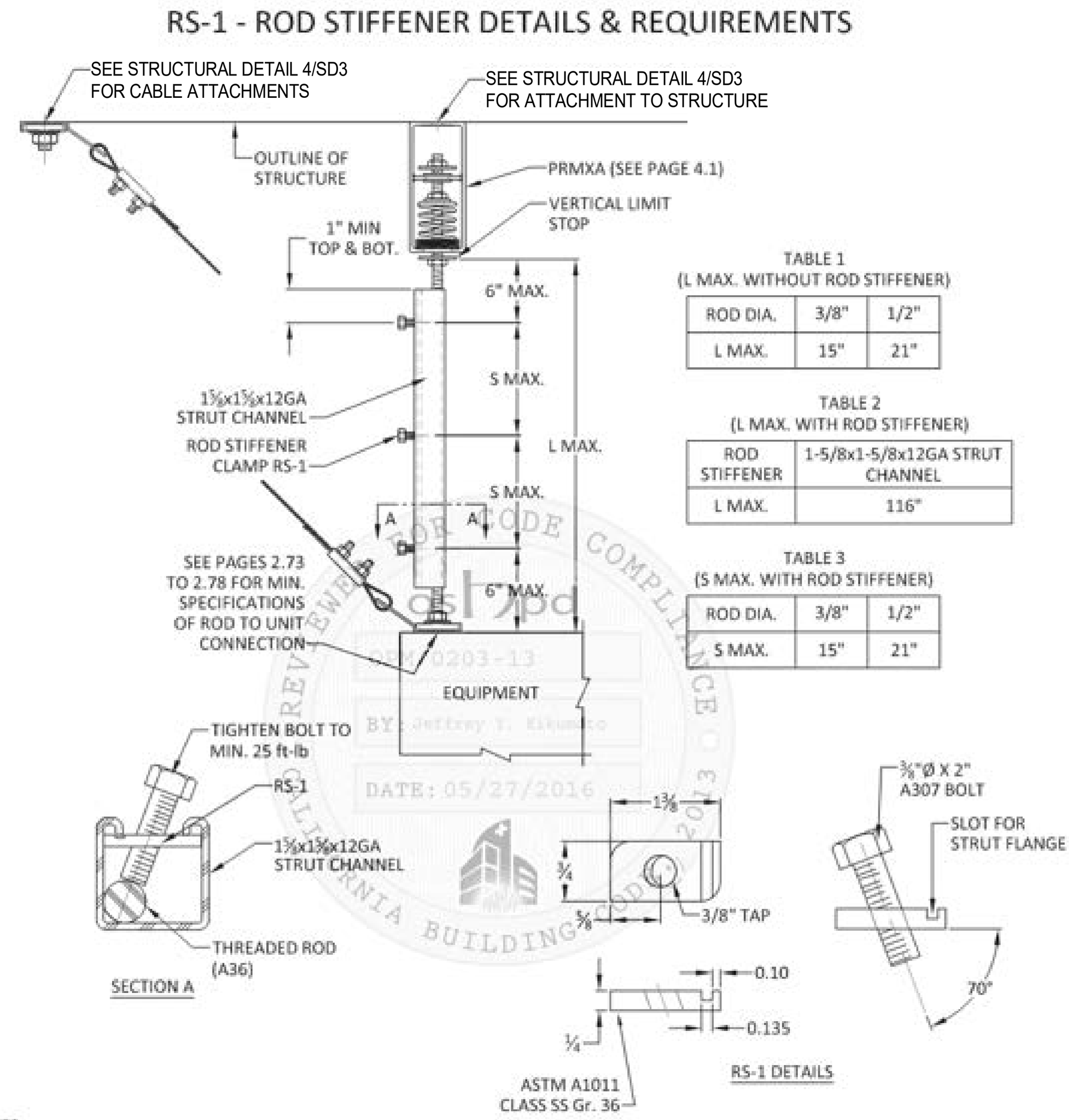

TABLE 1 (L MAX. WITHOUT ROD STIFFENER)

ROD DIA.	3/8"	1/2"
L MAX.	15"	21"

TABLE 2 (L MAX. WITH ROD STIFFENER)

ROD STIFFENER	1-5/8x1-5/8x12GA STRUT CHANNEL
L MAX.	116"

TABLE 3 (S MAX. WITH ROD STIFFENER)

ROD DIA.	3/8"	1/2"
S MAX.	15"	21"

NOTES:
1. SEE TABLE 1 FOR MAXIMUM LENGTH OF ⅜" THRU ⅝"Ø RODS WITHOUT ROD STIFFENER.
2. SEE TABLE 2 FOR MAXIMUM LENGTH OF ⅜" THRU ⅝"Ø RODS WITH ROD STIFFENER.
3. SEE TABLE 3 TO DETERMINE NUMBER OF ROD STIFFENER CLIPS REQUIRED.
4. PROVIDE ROD STIFFENING ONLY WHERE SEISMIC BRACKETS ARE ATTACHED TO THE ROD.
5. SEE SECTION 3 FOR STRUCTURAL ATTACHMENTS FOR HANGER BOX AND CABLE BRACING

Vibrex vibration & seismic control systems | M.W. Saussé & Co., Inc. 28744 Witherspoon Parkway | Valencia, CA 91355 Ph: (661) 257-3311 | Fax: (661) 257-6050 | Civil Engineer: P.K. Sachdeva California PE No. C59644 | Page No.: 4.2 | Date: May 9, 2016

RS-1 - ROD STIFFENER DETAILS & REQUIREMENTS

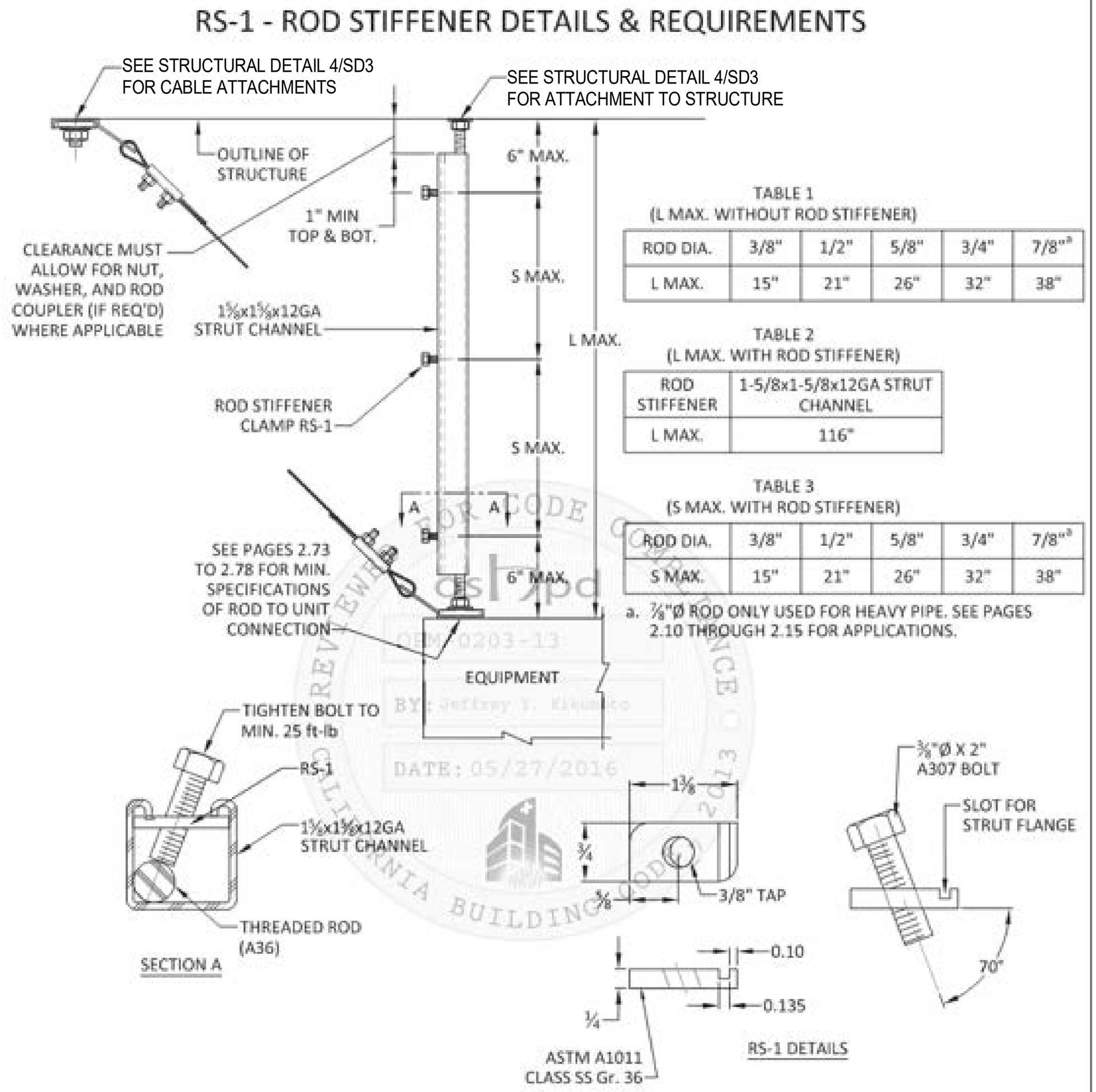

TABLE 1 (L MAX. WITHOUT ROD STIFFENER)

ROD DIA.	3/8"	1/2"	5/8"	3/4"	7/8"[a]
L MAX.	15"	21"	26"	32"	38"

TABLE 2 (L MAX. WITH ROD STIFFENER)

ROD STIFFENER	1-5/8x1-5/8x12GA STRUT CHANNEL
L MAX.	116"

TABLE 3 (S MAX. WITH ROD STIFFENER)

ROD DIA.	3/8"	1/2"	5/8"	3/4"	7/8"[a]
S MAX.	15"	21"	26"	32"	38"

a. ⅞"Ø ROD ONLY USED FOR HEAVY PIPE. SEE PAGES 2.10 THROUGH 2.15 FOR APPLICATIONS.

NOTES:
1. SEE TABLE 1 FOR MAXIMUM LENGTH OF ⅜" THRU ⅞"Ø RODS WITHOUT ROD STIFFENER.
2. SEE TABLE 2 FOR MAXIMUM LENGTH OF ⅜" THRU ⅞"Ø RODS WITH ROD STIFFENER.
3. SEE TABLE 3 TO DETERMINE NUMBER OF ROD STIFFENER CLIPS REQUIRED.
4. PROVIDE ROD STIFFENING ONLY WHERE SEISMIC BRACKETS ARE ATTACHED TO THE ROD.
5. SEE SECTION 3 FOR STRUCTURAL ATTACHMENTS FOR HANGER BOX AND CABLE BRACING

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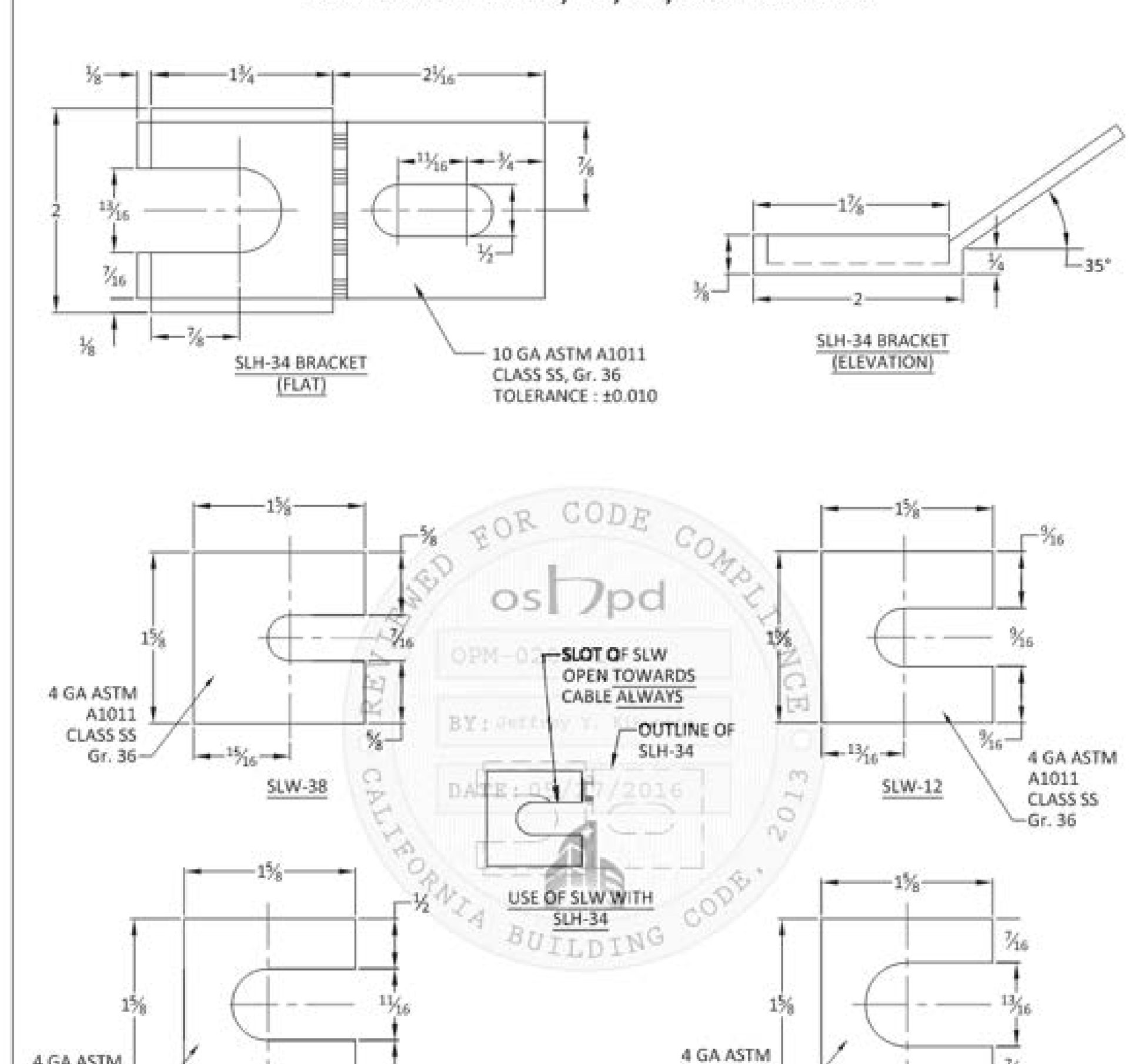
SLH-34 & SLW-38, 12, 58, & 34 DETAILS



USE SLW-38 WITH ⅜"Ø ROD
USE SLW-12 WITH ½"Ø ROD
USE SLW-58 WITH ⅝"Ø ROD
USE SLW-34 WITH ¾"Ø ROD

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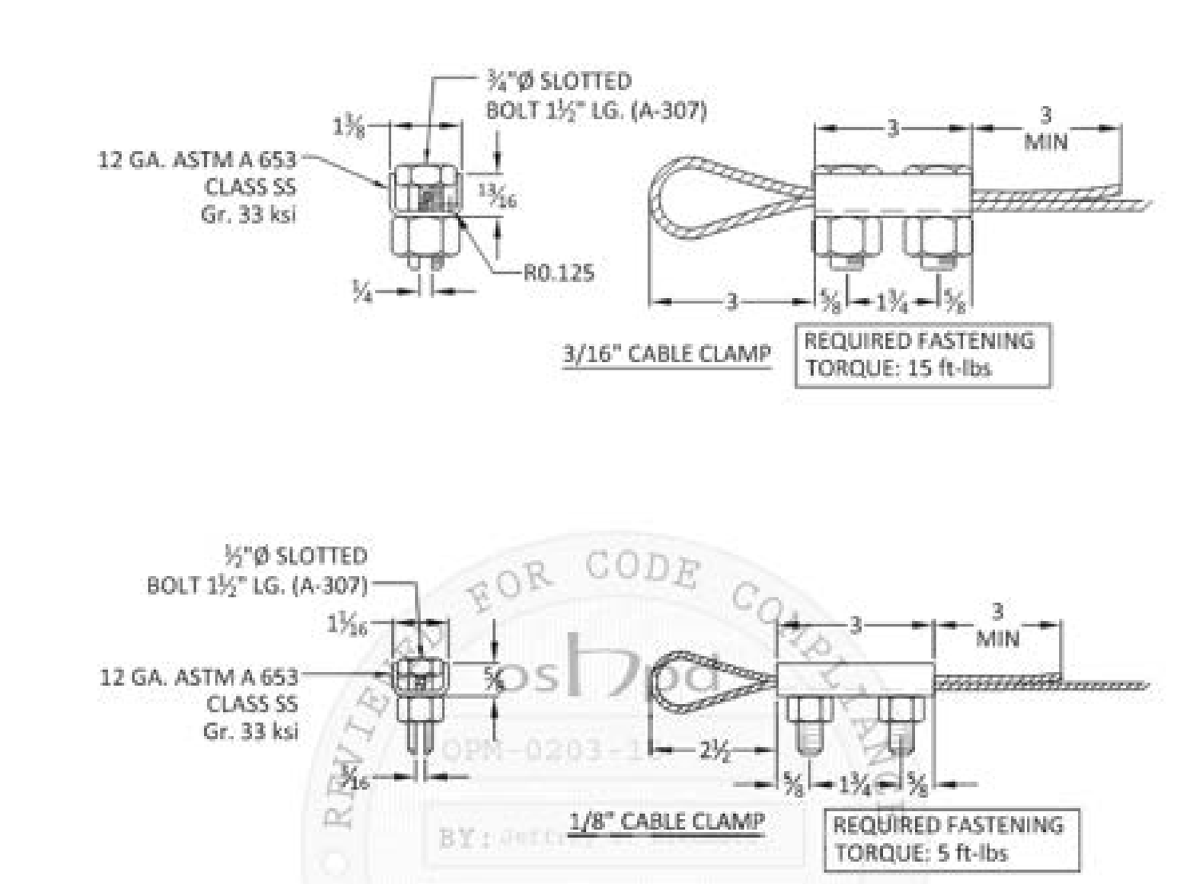
CABLE CLAMP DETAILS



CABLE INFORMATION

CABLE Ø	CLASSIFICATION/ CONSTRUCTION	BREAKING STRENGTH
⅛"	7X19	2,000 LBS
3/16"	7X19	4,200 LBS

CABLE IS SMALL DIA. (GALVANIZED) SPECIALTY CORD & MEETS ASTM A1023/A1023M STANDARDS & FEDERAL U.S. SPECIFICATION RR-W-410G, TYPE VI, CLASS 3.

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1 PRE-APPROVED OPM HANGER DETAILS
NOT TO SCALE

PBK

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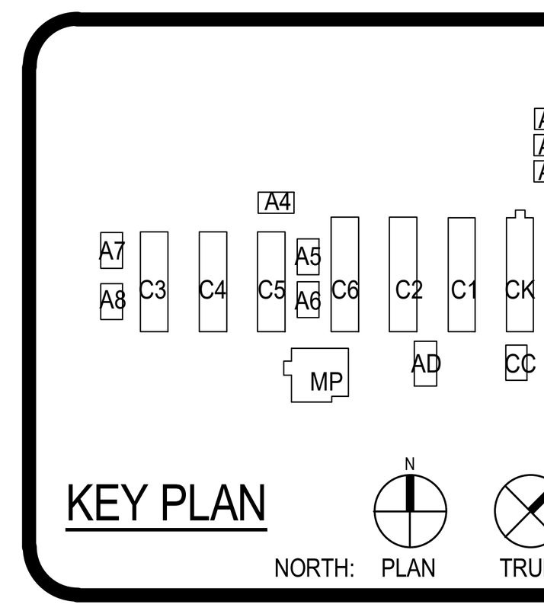
FINLEY ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
13521 Edwards St.
Westminster, CA 92683
DSA SUBMITTAL
DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43



Consultant

REGISTERED PROFESSIONAL ENGINEER
DAVID [illegible]
STATE OF CALIFORNIA

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
12-28-2022	220307

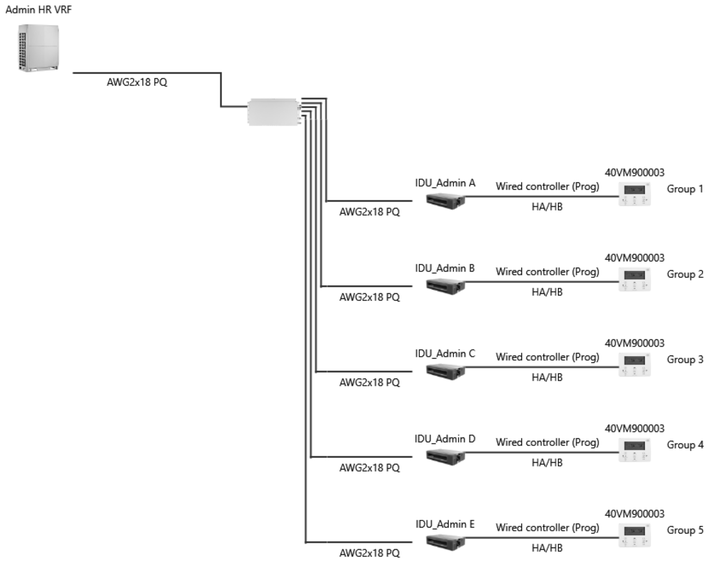
REVISIONS

No.	Description	Date

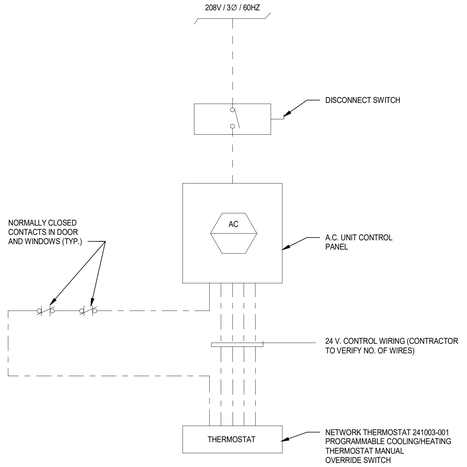
DSA SUBMITTAL

MECHANICAL DETAILS

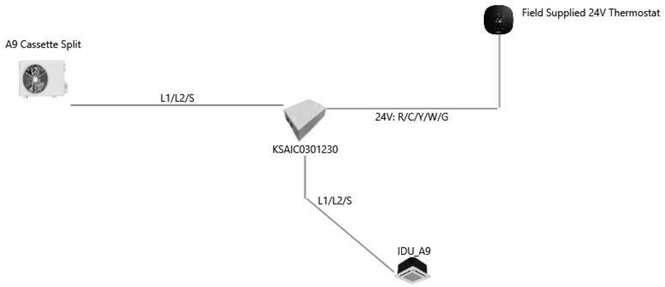
M6.02



06 PIPING DIAGRAMS
NOT TO SCALE



21 AC UNIT WIRING DIAGRAM
12" = 1'-0"



Indoor Units:	5 / 1 to 24	
Capacity:	99 / 60 to 180 (82.5%)	
Total Pipe Length:	145.0 / 1900.0	feet
Furthest Actual:	55.0 / 541.0	feet
Furthest Equiv.:	58.4 / 623.0	feet
After 1st Branch Actual:	30.0 / 182.3	feet
After 1st Branch Equiv.:	31.1 / 182.3	feet
Max Height Between IDU/IDU:	0.0 / 98.0	feet
Max Height Between IDU/ODU (Above):	5.0 / 164.0	feet
Max Height Between IDU/ODU (Below):	0.0 / 131.2	feet

Correction Factors

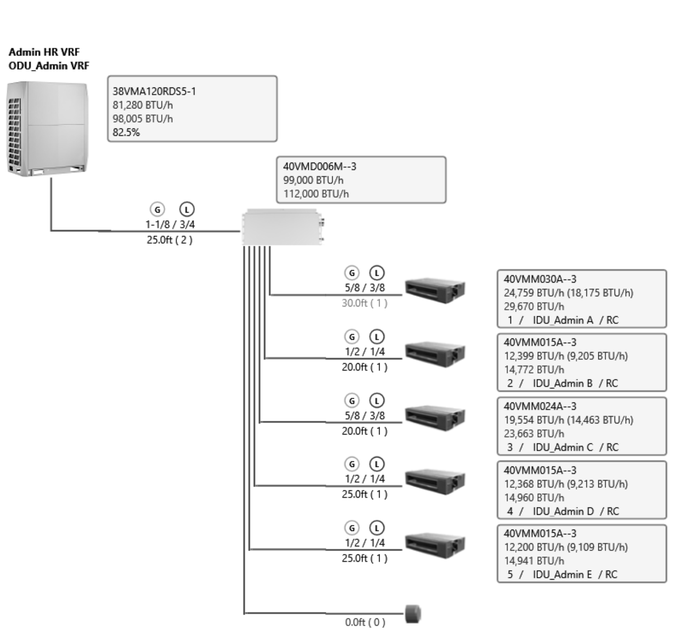
System Capacity:	0.68	0.78
Temperature:	0.68	0.92
Piping Length:	0.99	0.99
Altitude:	1.00	1.00
Defrosting:	-	0.85
Additional Derates:	1.00	1.00

Additional Refrigerant:	16.3	lb
Total Refrigerant Amount:	42.8	lb
Min Allowable Room Volume(cuft):	1646.0	

Design Temperatures (°F)

Cooling:
Indoor DB 80.0 Humidity 51.8% Indoor WB 67.0
Outdoor DB 91.0

Heating:
Indoor DB 70.0
Outdoor DB 36.0 Humidity 49.5% Outdoor WB 31.0



Indoor Units:	1 / 1 to 1	
Capacity:	12 / 6 to 12 (100.0%)	
Total Pipe Length:	25.0 / 82.0	feet
Furthest Actual:	25.0 / 82.0	feet
Furthest Equiv.:	25.0 / 82.0	feet
After 1st Branch Actual:	0.0 / 0.0	feet
After 1st Branch Equiv.:	0.0 / 0.0	feet
Max Height Between IDU/IDU:	0.0 / 0.0	feet
Max Height Between IDU/ODU (Above):	0.0 / 32.0	feet
Max Height Between IDU/ODU (Below):	10.0 / 32.0	feet

Correction Factors

System Capacity:	1.00	1.00
Temperature:	0.00	0.00
Piping Length:	0.99	0.99
Altitude:	1.00	1.00
Defrosting:	-	1.00
Additional Derates:	1.00	1.00

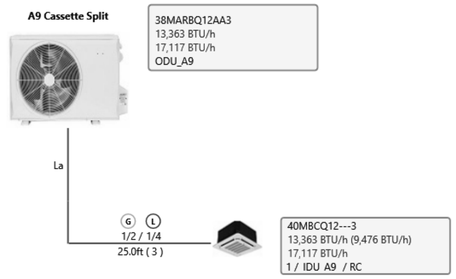
Additional Refrigerant:	0.0	lb
Total Refrigerant Amount:	2.6	lb
Min Allowable Room Volume(cuft):	100.1	

Design Temperatures (°F)

Cooling:
Indoor DB 80.0 Humidity 51.8% Indoor WB 67.0
Outdoor DB 91.0

Heating:
Indoor DB 70.0
Outdoor DB 36.0 Humidity 49.5% Outdoor WB 31.0

⚠ Indoor Unit Cooling Range Error: This unit is only rated to 59.0°F, but derates are based upon minimum and maximum values.



3 PIPING DIAGRAM
12" = 1'-0"

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5/15/2023 8:48:21 AM

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121814 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/11/2023

PBK

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FINLEY ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
13521 Edwards St.
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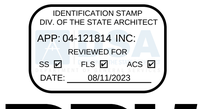
DSA SUBMITTAL

DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43



KEY PLAN
NORTH: PLAN TRUE

Consultant

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
12-28-2022	220307

REVISIONS

No.	Description	Date

DSA SUBMITTAL

MECHANICAL CONTROLS

M7.01

E0.00 - ELECTRICAL SYMBOLS, LEGENDS & GENERAL NOTES

ELECTRICAL SYMBOL LEGEND

1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS.
2. DASHED ELEECTRICAL EQUIPMENT GENERALLY INDICATES EXISTING EQUIPMENT.
3. LONG-SHORT-SHORT-LONG DASHING GENERALLY INDICATES MATCH LINE OR DEFINES AREA FOR SPECIAL NOTE.

CIRCUIT RELATED:

- LIGHTING OR POWER CIRCUIT(S). ARROW INDICATES HOME RUN, LONGER TICK(S) INDICATE NEUTRAL WIRE(S), SHORTER STRAIGHT TICK(S) INDICATE PHASE WIRE(S), SLANTED SHORTER TICK(S) INDICATE SWITCH LEG(S), DOT(S) INDICATE GROUNDING CONDUCTOR(S), DASHED WIRING (LONG-SHORT-LONG DASHES) INDICATES WIRING BELOW SLAB OR GRADE, DASHED WIRING (SERIES OF SHORT DASHES) INDICATES EXISTING WIRING, SLASH THROUGH ARROW INDICATES PARTIAL CIRCUIT, "D" ON HOMERUN ARROW INDICATES DEDICATED CIRCUIT: PROVIDE A SEPARATE NEUTRAL FOR EACH PHASE CONDUCTOR FOR ENTIRE LENGTH OF CIRCUIT FROM PANEL TO OUTLET; COUNT EACH NEUTRAL AS CURRENT-CARRYING AND GROUP A MAXIMUM OF SIX THHN/THWN CONDUCTORS IN A SINGLE RACEWAY; GROUNDING CONDUCTOR IS NOT COUNTED.
  NOTE: HOMERUN INDICATES INSTALLATION OF NEW WIRE AND CONDUIT (#12 WIRE, 3/4"C, UNLESS OTHERWISE NOTED) FROM SOURCE PANELBOARD TO LOAD. HOMERUN INDICATES CONNECTION OF NEW LOADS TO EXISTING CIRCUITS IN LIEU OF PANELBOARD WHERE NOTED ON PLANS.
- (J) JUNCTION BOX
- GROUNDING FIXTURE

LIGHTING:

- LED LIGHTING FIXTURE. LETTER INDICATES TYPE, SMALL LETTER INDICATES SWITCH CONTROL, NUMBER INDICATES CIRCUIT, CROSS HATCHING INDICATES FIXTURE ON EMERGENCY SYSTEM, FOR SOLID CIRCLE WITHIN FIXTURE REFERENCE APPROPRIATE CATEGORY "A" CIRCUIT RELATED SYMBOL
- STRIP TYPE LED LIGHTING FIXTURE. LETTER INDICATES TYPE, SMALL LETTER INDICATES SWITCH CONTROL, NUMBER INDICATES CIRCUIT, FOR SOLID CIRCLE ATTACHED TO FIXTURE REFERENCE APPROPRIATE CATEGORY "A" CIRCUIT RELATED SYMBOL
- LED LIGHTING FIXTURE. LETTER INDICATES TYPE, SMALL LETTER INDICATES SWITCH CONTROL, NUMBER INDICATES CIRCUIT, FOR SOLID CIRCLE REFERENCE APPROPRIATE CATEGORY "A" CIRCUIT RELATED SYMBOL
- DESIGNATES FIXTURE ON EMERGENCY POWER. RE: LIGHTING PLAN NOTES AND FIXTURE SCHEDULE NOTES FOR ADDITIONAL INFORMATION
- WALL OR BRACKET MOUNTED FIXTURE OR DEVICE
- EXIT LIGHT FIXTURE. LETTER INDICATES TYPE, NUMBER INDICATES CIRCUIT, NUMBER AND LOCATION OF SHADED TRIANGLE SECTIONS INDICATE NUMBER OF EXIT SIGN FACES AND DIRECTION OF EACH FACE. PROVIDE CHEVRON DIRECTIONAL INDICATORS AS SHOWN ON DRAWINGS

CONTROL:

- $ SWITCH. SMALL LETTER INDICATES FIXTURES CONTROLLED, "P" INDICATES PILOT LIGHT, "WP" INDICATES WEATHERPROOF, "K" INDICATES KEY POERATED, "MO" INDICATES SPDT MOMENTARY CONTACT, "2" INDICATES DPDT, "3" INDICATES 3-WAY, "4" INDICATES 4-WAY, "M" INDICATES MANUAL MOTOR STARTER, CIRCUIT DESIGNATION NEXT TO SWITCH INDICATES BRANCH CIRCUIT NUMBER
- $D WALL BOX DIMMER SWITCH. "MARK" INDICATES WATTAGE IF OTHER THAN 600, "3D" INDICATES 3-WAY DIMMER
- $$ MULTI-LEVEL SWITCH. CIRCUIT DESIGNATION NEXT TO SWITCH INDICATES BRANCH CIRCUIT NUMBER
- $T DIGITAL TIME SWITCH
- (PC) PHOTOELECTRIC CONTROL
- EMERGENCY POWER OFF (EPO) PUSHBUTTON
- PUSH BUTTON
- $OC WALL MOUNT OCCUPANCY SENSOR
- $OC/D WALL MOUNT OCCUPANCY SENSOR WITH DIMMING CONTROLS
- DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR
- (R) CEILING MOUNTED RESTROOM OCCUPANCY SENSOR
- (C) CEILING MOUNTED CORRIDOR OCCUPANCY SENSOR
- (HB) CEILING MOUNTED HIGH CEILING OCCUPANCY SENSOR

POWER OUTLETS:

- 20A-125V DUPLEX RECEPTACLE
- 20A-125V GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE. "WP" INDICATES WEATHER PROOF DEVICE
- 20A-125V DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER TOP. REFER TO ARCHITECT FOR EXACT HEIGHT ABOVE COUNTER
- C: 20A-125V CONTROLLED DUPLEX RECEPTACLE
- 20A-125V ISOLATED GROUND TYPE DUPLEX RECEPTACLE
- CH: 20A-125V DUPLEX TAMPER RESISTANT RECEPTACLE WITH (2) USB CHARGING PORTS
- 20A-125V FOURPLEX RECEPTACLE. SAME SYMBOLOGY AS DUPLEX RECEPTACLE
- SPECIAL PURPOSE SINGLE POWER RECEPTACLE. RATED AS INDICATED (IF NO RATING INDICATED, RECEPTACLE RATING SHALL MATCH BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICE AND SHALL MEET REQUIREMENTS OF EQUIPMENT BEING CONNECTED), "C" INDICATES CLOCK OUTLET
- 20A-125V FLUSH FLOOR DUPLEX RECEPTACLE. 20A WHEN INDICATED OR IF BRANCH CIRCUIT SERVES ONLY SINGLE DUPLEX. PROVIDE CARPED FLANGE WHERE APPLICABLE
- LC1-X CIRCUIT DESIGNATION NEXT TO RECEPTACLE DEVICES INDICATES BRANCH CIRCUIT NUMBER. SEE PANEL SCHEDULES FOR INFORMATION.

TELEPHONE/DATA:

- FLUSH FLOOR TELEPHONE OUTLET WITH CARPET FLANGE WHERE APPLICABLE
- WALL COMMUNICATIONS OR DATA OUTLET. REFER TO 'TS' SERIES SHEETS FOR EXACT BOX / CONDUIT REQUIREMENTS
- FLUSH FLOOR COMMUNICATIONS OR DATA OUTLET. REFER TO 'TS' SERIES SHEETS FOR EXACT BOX / CONDUIT REQUIREMENTS. PROVIDE CARPET FLANGE WHERE APPLICABLE
- SURFACE FLOOR COMMUNICATIONS OR DATA OUTLET. REFER TO 'TS' SERIES SHEETS FOR EXACT BOX / CONDUIT REQUIREMENTS. PROVIDE CARPET FLANGE WHERE APPLICABLE

EQUIPMENT:

- +42" A NOTATION INDICATING THE MOUNTING HEIGHT OF A DEVICE AS MEASURED FROM FINISHED FLOOR OR GRADE TO CENTER LINE OF DEVICE
- MOTOR
- DISCONNECT SWITCH. FRAME SIZE/FUSE SIZE/POLES AS INDICATED, "NF" INDICATES NON-FUSIBLE. NEMA 1 ENCLOSURE UNLESS OTHERWISE NOTED. PROVIDE FUSED BUSWAY PLUG WHEN SWITCH IS INDICATED ON BUSWAY. ALL DISCONNECT SWITCHES SHALL BE 30/NF/3 UNLESS OTHERWISE NOTED
- SINGLE CIRCUIT BREAKER IN INDIVIDUAL ENCLOSURE
- MAGNETIC MOTOR CONTROLLER. NUMBER INDICATES NEMA SIZE. STARTER NEMA SIZE SHALL BE "NEMA 1" UNLESS OTHERWISE NOTED
- COMBINATION DISCONNECT SWITCH / MOTOR CONTROLLER
- CONTACTOR
- PANELBOARD
- SWITCHBOARD / DP
- (T) TRANSFORMER
- GROUNDING CONNECTION TO GROUNDING ELECTRODE AS DEFINED IN CEC ARTICLE 250
- (B) BELL. "WP" INDICATED OUTDOOR RATED

REMODEL:

- (E) EQUIPMENT WITH "E" ADJACENT IS EXISTING TO REMAIN.
- (R) EXISTING EQUIPMENT WITH "R" ADJACENT IS TO BE COMPLETELY DISCONNECTED AND REMOVED.
- (RR) EXISTING EQUIPMENT WITH "RR" ADJACENT IS TO BE DISCONNECTED, REMOVED AND RELOCATED TO NEW LOCATION AND RECONNECTED AS REQUIRED.
- (ER) EQUIPMENT WITH "ER" ADJACENT IS RELOCATED EQUIPMENT SHOWN IN NEW LOCATION.
- NO TAG INDICATES NEW EQUIPMENT.
- (E) PNL-CKT CIRCUIT DESIGNATION WITH PREFIX "(E)" DENOTES EXISTING CIRCUIT AND EQUIPMENT IS TO REMAIN.

GENERAL NOTES

1. THE CONTRACTOR SHALL VISIT THE SITE INCLUDING ALL AREAS INDICATED ON THE DRAWINGS. HE SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND BY SUBMITTING A BID, ACCEPTS THE CONDITIONS UNDER WHICH HE SHALL BE REQUIRED TO PERFORM HIS WORK.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COMPLETE SET OF CONTRACT DOCUMENTS AND ADDENDA (DRAWINGS AND SPECIFICATIONS.) HE SHALL CHECK THE CONTRACT DOCUMENTS OF THE OTHER TRADES AND DETERMINE HIS RESPONSIBILITIES. FAILURE TO DO SO SHALL NOT RELEASE THE CONTRACTOR FROM COMPLETING ALL RESPONSIBLE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. THE CONTRACTOR SECURE AND PAY FOR ALL PERMITS, FEES, CHARGES, AND INCIDENTAL COSTS NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK, INCLUDING ALL CHARGES BY STATE, COUNTY AND LOCAL GOVERNMENTAL AGENCIES.
4. ALL ELECTRICAL WORK REFERENCED HEREIN SHALL BE COORDINATED WITH OTHER TRADES AND SITE CONDITIONS. ANY COSTS TO INSTALL WORK TO ACCOMPLISH SAID COORDINATION WHICH DIFFERS FROM THE WORK AS SHOWN ON THE CONTRACT DOCUMENTS SHALL BE INCURRED BY THE CONTRACTOR. ANY DISCREPANCIES, AMBIGUITIES OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT DURING BID TIME FOR CLARIFICATION. ANY SUCH CONFLICTS NOT CLARIFIED PRIOR TO BID SHALL BE SUBJECT TO THE INTERPRETATION OF THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
5. PROVIDE TEMPORARY POWER FACILITIES AND CONNECTIONS FOR ALL FEEDERS, BRANCH CIRCUITS OR SIGNAL AND COMMUNICATIONS SYSTEMS BEING DISCONNECTED IN ORDER TO MAINTAIN SYSTEMS IN OPERATION.
6. ALL INTERRUPTION OF ELECTRICAL POWER SHALL BE KEPT TO A MINIMUM. HOWEVER WHEN AN INTERRUPTION IS NECESSARY, THE SHUTDOWN MUST BE COORDINATED WITH THE OWNER AND ENGINEER 14 DAYS PRIOR TO THE OUTAGE AND OVERTIME PAY SHALL BE INCLUDED IN THE CONTRACTOR'S BID. WORK IN EXISTING SWITCHBOARDS OR PANEL BOARDS SHALL BE COORDINATED WITH THE OWNER PRIOR TO REMOVING ACCESS PANELS OR DOORS.
7. AFTER ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS HAVE BEEN FULLY COMPLETED. REPRESENTATIVES OF THE OWNERS WILL INSPECT THE WORK. THE CONTRACTOR SHALL PROVIDE COMPETENT PERSONNEL TO DEMONSTRATE THE OPERATION OF ANY ITEM OR SYSTEM TO THE FULL SATISFACTION OF EACH REPRESENTATIVE. FINAL ACCEPTANCE OF THE WORK WILL BE MADE BY THE OWNER AFTER RECEIPT OF APPROVAL AND RECOMMENDATION OF ACCETANCE FROM EACH REPRESENTATIVE.
8. FURNISH A ONE YEAR WRITTEN GUARANTEE OF MATERIALS AND WORKMANSHIP FROM THE DATE OF PUNCH LIST COMPLETION.
9. ALL FINAL CONNECTIONS TO OWNER FURNISHED EQUIPMENT SHALL BE MADE BY THE CONTRACTOR.
10. EXACT METHOD AND LOCATION OF CONDUIT PENETRATION AND OPENINGS IN CONCRETE OR MASONARY WALLS, GRADEBEAMS, FLOORS OR STRUCTURAL STEEL MEMBER SHALL BE AS DIRECTED BY THE STRUCTURAL ENGINEER. PERFORM CORING, SAWCUTTING, PATCHING, AND REFINISHING OF WALLS AND SURFACES WHEREVER IT IS NECESSARY TO PENETRATE. OPENINGS SHALL BE SEALED IN AN APPROVED METHOD TO MEET THE FIRE RATING OF THE PARTICULAR WALL. FLOOR OR CEILING EXACT METHOD AND LOCATION OF CONDUIT PENETRATIONS AND OPENINGS IN CONCRETE WALLS OR FLOORS SHALL BE UL APPROVED.
11. FINAL CONNECTIONS TO VIBRATING EQUIPMENT AND AT SEISMIC SEPARATIONS SHALL BE FLEXIBLE STEEL CONDUIT IN DRY INTERIOR LOCATIONS, AND LIQUID-TIGHT FLEXIBLE STEEL CONDUIT IN AREAS EXPOSED TO WEATHER, DAMP LOCATIONS, CONNECTIONS TO TRANSFORMER ENCLOSURES, AND FINAL CONNECTIONS TO MOTORS.
12. EQUIPMENT OUTLETS, LIGHTING FIXTURES, CONDUIT, WIRE AND CONNECTION METHODS IN HVAC AIR-PLENUMS SHALL BE APPROVED FOR USE IN PLENUMS AND SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE.
13. ROUTE EXPOSED CONDUIT AND CONDUIT ABOVE ACCESSIBLE CEILING SPACES PARALLEL AND PERPENDICULAR TO WALLS AND ADJACENT PIPING, ARRANGE CONDUIT TO MAINTAIN HEADROOM AND TO PRESENT A NEAT APPEARANCE.
14. CONDUIT SHALL NOT BE INSTALLED IN ANY FLOOR SLAB. CONDUIT SHALL BE INSTALLED CONCEALED IN THE CEILING SPACE, CONCEALED WALLS, OR 24" MINIMUM BELOW SLAB ON GRADE UNLESS NOTED OTHERWISE.
15. LOCATE ELECTRICAL EQUIPMENT AND BOXES IN ACCESSIBLE CEILING SPACE OR PROVIDE AN ACCESS PANEL FOR INACCESSIBLE CEILING SYSTEMS. ACCESS DOORS SHALL BE A MINIMUM DIMENSION OF 24" x 24" ACCESS DOOR LOCATIONS SHALL SUIT ACCESSIBILITY AND CONSTRUCTION CONDITIONS. ACCESS DOORS SHALL HAVE A FIRE RATING EQUAL TO THE CEILING ASSEMBLY IN WHICH THEY ARE INSTALLED.
16. COORDINATE REQUIRED ACCESS DOORS IN NON-ACCESSIBLE CEILING TO SUIT FIELD CONDITIONS. THE EXACT SIZES AND PHYSICAL LOCATIONS SHALL SUIT ACCESSIBILITY AND CONSTRUCTION CONDITIONS. ACCESS DOORS SHALL BE PROVIDED IN OTHER SECTIONS OF THE SPECIFICATIONS. ACCESS DOORS SHALL HAVE A FIRE RATING EQUAL TO THE CEILING ASSEMBLY IN WHICH THEY ARE INSTALLED.
17. WHENEVER A DISCREPANCY OF ANY SYSTEM AND/OR EQUIPMENT ARISES ON THE CONTRACT DOCUMENTS OR SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIAL AND SERVICES REQUIRED BY THE STRICTEST CONDITIONS NOTED ON THE DRAWINGS OR SPECIFICATIONS TO ENSURE COMPLETE AND OPERABLE SYSTEMS AS REQUIRED BY THE OWNER AND ARCHITECT/ENGINEER.
18. STRAIGHT FEEDER BRANCH CIRCUIT AND CONDUIT RUNS SHALL BE PROVIDED WITH SUFFICIENT PULL BOXES OR JUNCTION BOXES TO LIMIT THE MAXIMUM LENGTH OF ANY SINGLE CABLE PULL TO 100 FEET. PULL BOXES SHALL BE SIZED PER CODE OR AS INDICATED ON DRAWINGS.
19. PANEL SCHEDULES SHALL BE REVISED TO REFLECT FINAL ROOM NAMES AND NUMBERS USING OWNER'S ROOM NAMES AND NUMBERS DESIGNATIONS. CONTRACTOR TO PROVIDE FINAL PANEL SCHEDULE TO EEOR AT COMPLETION OF PROJECT.
20. WHERE OUTLETS OCCUR AT TACKABLE WALL PANELS OR OTHER WALL FINISHES. PROVIDE EXTENSION RINGS AS REQUIRED SO THAT NO SPACE WILL EXIST BETWEEN DEVICE PLATE AND BACKBOX PER CALIFORNIA ELECTRICAL CODE 314.20 SEE ARCHITECTURAL ELEVATIONS FOR WALL FINISHES AND LOCATIONS.
21. COORDINATE LOCATIONS OF ALL SEISMIC SEPARATIONS.
22. ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF ALL LOW VOLTAGE / TECHNOLOGY SYSTEMS SHALL BE A DEDICATED CIRCUIT AND ON EMERGENCY POWER WHEN AVAILABLE. CABLING CONTRACTOR SHALL COORDINATE ALL 120V POWER REQUIREMENTS AND LOCATIONS WITH ELECTRICAL CONTRACTOR FOR ALL EQUIPMENT.
23. SYSTEM WIRING AND EQUIPMENT INSTALLATION SHALL BE IN ACCORDANCE WITH GOOD ENGINEERING PRACTICES AS ESTABLISHED BY THE EIA AND THE CEC.
24. ALL AC POWER CABLES ARE TO BE INSTALLED WITH A MINIMUM OF 12 INCHES OF SEPARATION FROM TECHNOLOGY LOW VOLTAGE CABLES, INTERCOM, FIRE ALARM, SECURITY CABLES IN ANY PARALLEL OPEN WIRE RUN.
25. CONTRACTOR SHALL PROVIDE AND INSTALL ALL SLEEVES REQUIRED TO INSTALL COMMUNICATION CABLING THROUGH RATED WALLS. ALL TECHNOLOGY SYSTEM CONDUIT SLEEVES SHALL HAVE PROTECTIVE BUSHING ON BOTH ENDS, BE DEDICATED FOR TECHNOLOGY SYSTEMS ONLY AND SHALL NOT SHARE WITH OTHER BUILDING TRADES.
26. CONTRACTOR SHALL MAINTAIN WALL RATING WITH PROPER FIRE BLOCKING METHODS.
27. ALL CONDUCTORS SHALL BE UL LISTED, COPPER #12 MINIMUM SIZE, TYPE THHN/THWN THERMOPLASTIC, 600 VOLT, 75 DEGREES CELSIUS WET AND 90 DEGREES CELSIUS DRY, UNLESS NOTED OTHERWISE.
28. ALL CABLING SHALL BE ROUTED IN CONDUIT. SIZE CONDUIT AS REQUIRED TO ROUTE SYSTEMS WITH MAXIMUM 40% CABLE FILL. MINIMUM CONDUIT SIZE SHALL BE 3/4" INTERIOR & 1" EXTERIOR.
29. ALL CONDUIT STUB OUTS AND SLEEVES SHALL HAVE PROTECTIVE BUSHINGS TO PREVENT CABLE DAMAGE. BUSHING TO BE INSTALLED PRIOR TO CABLE INSTALLATION. CUTTING BUSHING AND INSTALLING AFTER CABLE IS INSTALLED WILL NOT BE ACCEPTED.

UTILITY PENETRATIONS NOTE

UTILITY PENETRATIONS OF ANY KIND IN FIRE AND SMOKE PARTITIONS AND CEILING ASSEMBLIES SHALL BE FIRESTOPPED AND SEALED WITH AN APPROVED UL LISTED SYSTEM OR MATERIAL.

STEEL ELECTRICAL OUTLET BOXES WHICH DO NOT EXCEED 16 SQUARE INCHES IN AREA, NEED NOT BE PROTECTED IN ONE HOUR OR TWO HOUR FIRE RATED WALLS, PARTITIONS, CEILING, OR AREA SEPARATION UNLESS THEY:

1. OCCUR ON OPPOSITE SIDES OF THE WALL WITHIN 24 INCH HORIZONTAL DISTANCE OF ONE ANOTHER IN THIS CASE , ONLY ONE OUTLET BOX NEEDS TO BE PROTECTED BY AN APPROVED FIRESTOP MATERIAL OR DETAIL TO CORRECT THIS CONDITION.
2. OCCUR IN COMBINATION WITH OUTLET BOXES OF ANY SIZE SUCH THAT THE AGGREGATE AREA OF UNPROTECTED OUTLET BOXES EXCEEDS 100 SQUARE INCHES IN ANY 100 SQUARE FEET OF WALL AREA IN THIS CASE, ONLY A SUFFICIENT NUMBER OF OUTLET BOXES NEED TO BE PROTECTED BY AN APPROVED MATERIAL OR DETAIL TO DECREASE THE AGGREGATE AREA OF UNPROTECTED UTILITY BOXES TO LESS THAN 100 SQUARE FEET OF WALL.

STEEL ELECTRICAL OUTLET BOXES WHICH EXCEED 16 SQUARE INCHES IN AREA, AND ALL OTHER STEEL UTILITY OUTLET BOXES REGARDLESS OF SIZE, SHALL BE PROTECTED BY AN APPROVED FIRESTOP MATERIAL AS LISTED OR EQUAL.

FIRESTOPPING MATERIAL:
MPP-1 MOLDABLE PUTTY PADS

3M CONTRACTOR PRODUCTS
MINNEAPOLIS,
MN 3M TEST REPORT NO. 1167
DATED AUGUST 21, 1987

FLAMESAFE FSP 1077 FIRESTOP PADS
INTERNATIONAL PROTECTIVE COATINGS
OAKHURST, NJ

FSP FIRESTOP PUTTY PADS
HEVI-DUTY NELSON PRODUCTS
TULSA, OK

STEEL UTILITY BOXES WHICH EXCEED 100 SQUARE INCHES IN AREA SHALL BE PROTECTED BY ENCASEMENT.

UTILITY AND ELECTRICAL OUTLETS OR BOXES SHALL BE SECURELY FASTENED TO THE STUD FRAMING OF THE WALL, PARTITION OR CEILING ASSEMBLY. THE OPENING IN THE GYPSUM BOARD FACING SHALL BE CUT SO THAT THE CLEARANCE BETWEEN THE BOX AND THE GYPSUM BOARD DOES NOT EXCEED 1/8 INCH IN SMOKE WALLS OR PARTITIONS, THE 1/8 INCH CLEARANCE SHALL BE FILLED WITH AN APPROVED FIRE-RATED SEALANT.

APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2020 *
2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR *
2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
(2018 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2019 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
(2017 NATIONAL ELECTRICAL CODE AND 2019 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2019 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
(2018 INTERNATIONAL FIRE CODE AND 2019 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
(2018 INTERNATIONAL EXISTING BUILDING CODE AND 2019 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2019 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
2016 ASME A17.1(CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS (PER 2019 CBC PART 2 CH 35)
NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION

EQUIPMENT ANCHORAGE NOTES

MEP COMPONENT ANCHORAGE NOTES:

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRIC, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

1. 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.
2. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUND PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTION 1617A.1.24, 1617A.1.25, AND 1617A.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 PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO START OF AND DURING THE HANGING AND BRACING OF DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP ☐ MD ☐ PP ☐ E ☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES & DETAILS.

MP ☐ MD ☐ PP ☐ E ☐ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #____________.

DRAWING INDEX

DIAGRAMMATIC NOTE

DRAWINGS ARE DIAGRAMMATIC AND DO NOT INDICATE DETAILED CONDUIT ROUTING OR LENGTHS REQUIRED FOR COMPLETE INSTALLATION. ROUTING OF RACEWAYS SHALL BE AT THE OPTION OF THE CONTRACTOR BUT SHALL BE IN STRICT COMPLIANCE WITH STRUCTURAL REQUIREMENTS, CONTRACT DOCUMENTS AND SPECS UNLESS OTHERWISE NOTED. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES. DO NOT SCALE THE ELECTRICAL DRAWINGS FOR LOCATIONS OF ANY ELECTRICAL, ARCHITECTURAL, STRUCTURAL AND/OR MECHANICAL ITEMS OR FEATURES. REFER TO ARCHITECTURAL AND STRUCTURAL CONTRACT DOCUMENTS FOR FEATURES, REFER TO ARCHITECTURAL AND STRUCTURAL CONTRACT DOCUMENTS FOR DIMENSIONS.

DEVICE LOCATIONS NOTE

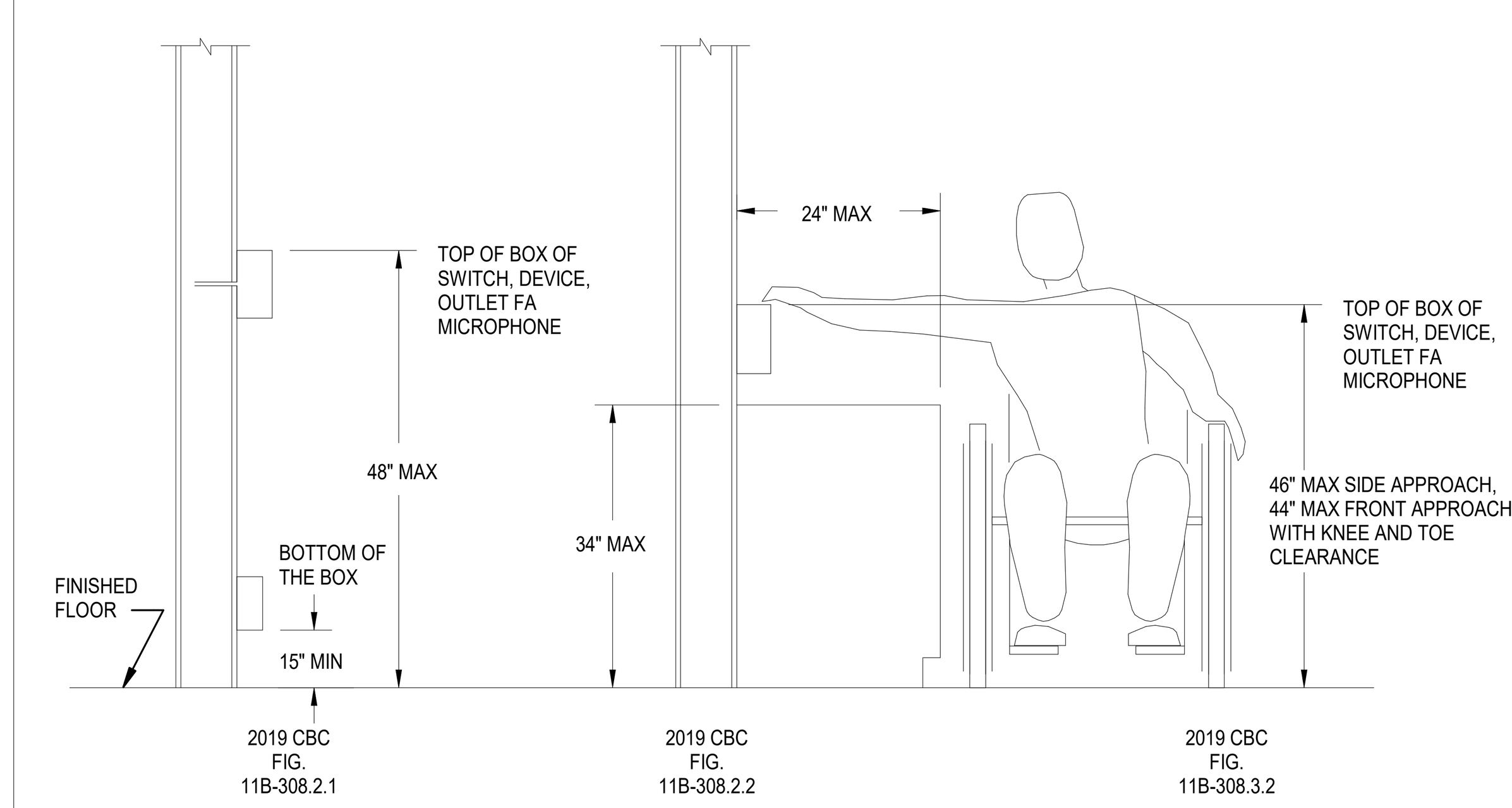
THE LOCATION OF ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE COORDINATED WITH THE ARCHITECTURAL ELEVATIONS, DETAILS, OR SECTIONS PRIOR TO INSTALLATION. ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE RECESSED IN WALLS UNLESS OTHERWISE NOTED. OUTLETS NOT INDICATED ON ARCHITECTURAL ELEVATIONS SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO ROUGH-IN, UNLESS OTHERWISE NOTED. ELECTRICAL DEVICES SHALL BE MOUNTED PER "ACCESSIBLE DEVICE MOUNTING HEIGHT" DETAIL.

COORDINATE WITH OTHER TRADES AS TO THE EXACT LOCATION OF THEIR RESPECTIVE EQUIPMENT SUPPLY POWER AND MAKE CONNECTION TO MOTORS AND EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS AS INDICATED ON THE SINGLE LINE DIAGRAM, ELECTRICAL DRAWINGS, AND DRAWINGS OF OTHER TRADES. REVIEW THE DRAWINGS OF OTHER TRADES FOR CONTROL DIAGRAMS, SIZE AND LOCATION OF EQUIPMENT, DISCONNECT SWITCHES, STARTERS, WIRING, CONTROLS, AND CONDUIT FOR MECHANICAL AND PLUMBING OPERATIONS.. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING MANUFACTURER'S SHOP DRAWINGS PRIOR TO ROUGHING IN ALL CONDUIT TO THIS EQUIPMENT.

STRUCTURAL NOTE

UNLESS SPECIFICALLY SHOWN ON THESE PLANS, STRUCTURAL MEMBERS SHALL NOT BE CUT, DRILLED, OR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT.

MOUNTING OVER OBSTRUCTION DETAIL



NOTE:

1. THIS DETAIL APPLIES TO MOUNTING OF ANY MECHANICAL AND ELECTRICAL DEVICE WHICH CONTAINS AN OPERABLE PART THAT IS ADJUSTABLE BY THE OCCUPANT. THIS DOES NOT APPLY TO SENSORS OR CONTROLS THAT ARE ONLY ADJUSTABLE THROUGH THE BUILDING AUTOMATION SYSTEM (IE: TEMPERATURE AND HUMIDITY SENSORS).

UL LISTINGS NOTE

ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE LISTED BY UNDERWRITER'S LABORATIES (UL) AND BEAR THEIR LABEL OR LISTED AND CERTIFIED BY A NATIONALLY RECOGNIZED TESTING AUTHORITY.

ALL EQUIPMENT/DEVICES INSTALLED RECESSED IN FIRE RATED CEILINGS OR WALLS SHALL BE ENCLOSED WITH AN APPROVED UL LISTED ENCLOSURE CARRYING THE SAME FIRE RATING AS THE CEILING OR WALL.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121814 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/11/2023

PBK

ARCHITECT PBK Architects, Inc.
COSTA MESA PBK.com
600 Anton Boulevard, Suite 1375
Costa Mesa, CA 92626
P 949-548-5000

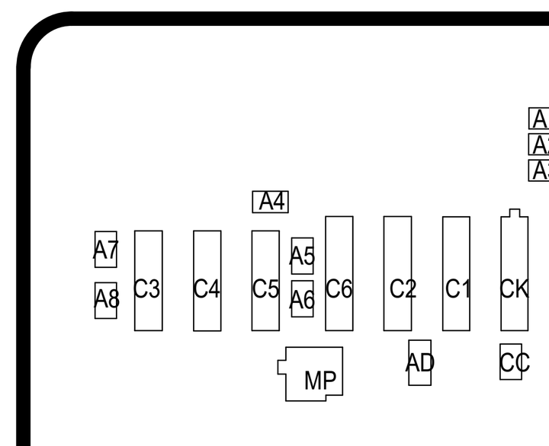
CONSULTANT LEAF Engineers
LEAF ENGINEERS
8163 Rochester Avenue, Suite 100
Rancho Cucamonga, CA 91730
909.987-0909
leafengineers.com

FINLEY ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
13521 Edwards St.,
Westminster, CA 92683

DSA SUBMITTAL

DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43



KEY PLAN
NORTH: PLAN TRUE

Consultant

REGISTERED PROFESSIONAL ENGINEER RONALD C DELA CRUZ No. E 23576 Exp. 09-30-2023 ELECTRICAL STATE OF CALIFORNIA

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
12-28-2022	220307

REVISIONS

No.	Description	Date

DSA SUBMITTAL

ELECTRICAL SYMBOLS, LEGENDS & GENERAL NOTES

E0.00

FILE PATH: Z:\Projects\...
5/15/2023 11:29:36 AM

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E (Created 04/21) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6, and §141.0(b)2 for indoor lighting scopes using the prescriptive path.		
Project Name: Finley Elementary - HVAC Upgrade & Modernization	Report Page:	Page 1 of 6
Project Address: 13521 Edwards St. Westminster CA. 92683	Date Prepared:	12-15-2022

A. GENERAL INFORMATION

01	Project Location (city)	Westminster	04	Total Conditioned Floor Area (ft²)	22,563
02	Climate Zone	6	05	Total Unconditioned Floor Area (ft²)	
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

☐ Office ☐ Retail ☐ Warehouse ☐ Hotel/Motel ☑ School ☐ Support Areas
☐ Parking Garage ☐ High-Rise Residential ☐ Relocatable ☐ Healthcare ☐ Other (write in):

B. PROJECT SCOPE

Table Instructions: Include any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations. WARNING: Changing the Calculation Method in this table will result in the deletion of data previously input. If you need to change the calculation method, please open a new form or use "Save As".

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☐ New Lighting System				
☑ Altered Lighting System	Complete Building	22,563		
Total Area of Work (ft²):	**22,563**			

C. COMPLIANCE RESULTS

Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1.	Allowed Lighting Power per §140.6(b) (Watts)						Adjusted Lighting Power per §140.6(a) (Watts)				Compliance Results
	01	02	03	04	05		06	07		08	09
	Complete Building §140.6(c)1	Area Category §140.6(c)2	Area Category Additional §140.6(c)2G (+)	Tailored §140.6(c)3 (+)	Total Allowed (Watts)	≥	Total Designed (Watts)	Adjustments PAF Control Credits §140.6(a)2 (-)	=	Total Adjusted (Watts) *Includes Adjustments	05 Must be ≥ 08 §140.6
	(See Table I)	(See Table I)	(See Table J)	(See Table K)			(See Table F)	(See Table P)			
Conditioned:	14,015.95				= **14,015.95**	≥	9,399		=	**9,399**	**COMPLIES**
Unconditioned:					=	≥			=		

Table Continued

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E (Created 04/21) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Finley Elementary - HVAC Upgrade & Modernization	Report Page:	Page 2 of 6
Project Address: 13521 Edwards St. Westminster CA. 92683	Date Prepared:	12-15-2022

Controls Compliance (See Table H for Details)	**COMPLIES**
Rated Power Reduction Compliance (See Table Q for Details)	**Not Applicable**

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

No exceptional conditions apply to this project.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. INDOOR LIGHTING FIXTURE SCHEDULE

Table Instructions: Include all permanent designed lighting and all portable lighting in offices.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How Wattage is determined	Total number luminaires	Exempt per §140.6(a)3	Design Watts	Field Inspector Pass	Field Inspector Fail
FX-A & C	2x4 TROFFER	☐	☐	38	Mfr. Spec[2]	221	☐	8,398	☐	☐
FX-B & E	1x4 TROFFER	☐	☐	37	Mfr. Spec[2]	26	☐	962	☐	☐
FX-D	7" DOWNLIGHT	☐	☐	13	Mfr. Spec[2]	3	☐	39	☐	☐
					Total Designed Watts CONDITIONED SPACES:			**9,399**		

[1] *FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)4B is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*
[2] *Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) Wattage used must be the maximum rated for the luminaire, not the lamp.*

G. MODULAR LIGHTING SYSTEMS

This Section Does Not Apply

H. INDOOR LIGHTING CONTROLS (Not Including PAFs)

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E (Created 04/21) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Finley Elementary - HVAC Upgrade & Modernization	Report Page:	Page 3 of 6
Project Address: 13521 Edwards St. Westminster CA. 92683	Date Prepared:	12-15-2022

*Table Instructions: Please include lighting controls for conditioned and unconditioned spaces in this table. When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Building Level Controls

01	02	03	
Mandatory Demand Response §110.12(c)	Shut-Off Controls §130.1(c)	Field Inspector	
		Pass	Fail
Required > 10,000 SF	See Area/Space Level Controls	☐	☐

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Skylit Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)1	Field Inspector Pass	Field Inspector Fail
CLASSROOM	School Building	Manual ON/ OFF	Dimmer	Occ. Sensor	NA	NA	☐	☐	☐
ADMIN	Office Building	Manual ON/ OFF	Dimmer	Occ. Sensor	NA	NA	☐	☐	☐
RESTROOM	School Building	Manual ON/ OFF	Dimmer	Occ. Sensor	NA	NA	☐	☐	☐

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2

13
Plan Sheet Showing Daylit Zones:

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Table Instructions: Complete the table for each area complying using the Complete Building or Area Category Methods per §140.6(b). Indicate if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used.

Conditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowances / Adjustment	
					Area Category	PAF
CLASSROOM	School Building	0.65	21,563	14,015.95	☐	☐
			TOTAL:	**21,563**	**14,015.95**	See Tables J or P for detail

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E (Created 04/21) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Finley Elementary - HVAC Upgrade & Modernization	Report Page:	Page 4 of 6
Project Address: 13521 Edwards St. Westminster CA. 92683	Date Prepared:	12-15-2022

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowances / Adjustment	
					Area Category	PAF

J. ADDITIONAL LIGHTING ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This Section Does Not Apply

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This Section Does Not Apply

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This Section Does Not Apply

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This Section Does Not Apply

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS

This Section Does Not Apply

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This Section Does Not Apply

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This Section Does Not Apply

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS

This Section Does Not Apply

R. 80% LIGHTING POWER FOR ALTERATIONS - CONTROLS EXCEPTIONS

This Section Does Not Apply

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E (Created 04/21) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Finley Elementary - HVAC Upgrade & Modernization	Report Page:	Page 5 of 6
Project Address: 13521 Edwards St. Westminster CA. 92683	Date Prepared:	12-15-2022

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This Section Does Not Apply

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://ww2.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
◉	○	NRCI-LTI-01-E - Must be submitted for all buildings	☐	☐
○	◉	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.	☐	☐
○	◉	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.	☐	☐
○	◉	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐	☐
○	◉	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐	☐

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
◉	○	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐	☐
○	◉	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐	☐
◉	○	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐	☐
○	◉	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF).	☐	☐
○	◉	NRCA-ENV-03-F - Must be submitted for daylighting design power adjustment factors (PAF).	☐	☐

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E (Created 04/21) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Finley Elementary - HVAC Upgrade & Modernization	Report Page:	Page 6 of 6
Project Address: 13521 Edwards St. Westminster CA. 92683	Date Prepared:	12-15-2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	NICOLE OROPEZA	Documentation Author Signature:	Nicole Oropeza
Company:	LEAF ENGINEERS	Signature Date:	12-15-2022
Address:	8163 ROCHESTER AVE.	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	RANCHO CUCAMONGA, CA. 91730	Phone:	909-987-0909

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:	RONALD DELA CRUZ	Responsible Designer Signature:	
Company :	LEAF ENGINEERS	Date Signed:	12-15-2022
Address:	8163 ROCHESTER AVE.	License:	E23576
City/State/Zip:	RANCHO CUCAMONGA, CA. 91730	Phone:	909-987-0909

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121814 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/11/2023

PBK

ARCHITECT PBK Architects, Inc.
COSTA MESA PBK.com
600 Anton Boulevard, Suite 1375
Costa Mesa, CA 92626
P 949-548-5000

CONSULTANT LEAF Engineers
LEAF ENGINEERS
8163 Rochester Avenue, Suite 100
Rancho Cucamonga, CA 91730
909.987-0909
leafengineers.com

FINLEY ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
13521 Edwards St.
Westminster, CA 92683

DSA SUBMITTAL

DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43

A1 A2 A3 A4 A5 A6 A7 A8 A9 C1 C2 C3 C4 C5 C6 C7 C8 MP

KEY PLAN
NORTH: PLAN TRUE

Consultant

REGISTERED PROFESSIONAL ENGINEER RONALD C DELA CRUZ No. E 23576 Exp. 09-30-2023 ELECTRICAL STATE OF CALIFORNIA

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
12-28-2022	220307

REVISIONS

No.	Description	Date

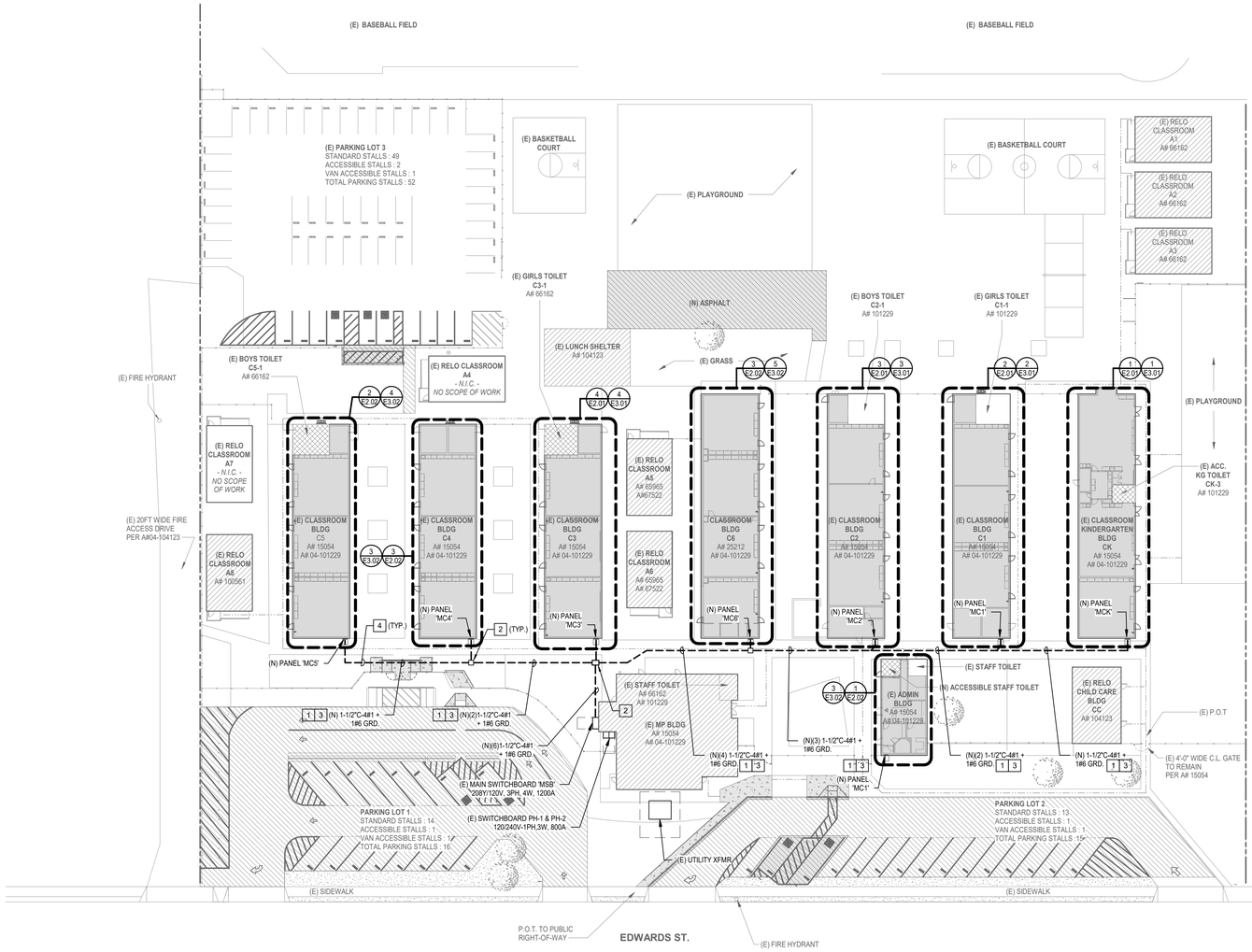
DSA SUBMITTAL

ELECTRICAL TITLE 24

E0.01

E1.01 - ELECTRICAL SITE PLAN

0" 1"



GENERAL NOTES

1. THE EXISTING BUILDING INCLUDING PORTIONS OF THE RENOVATED AREA SHALL REMAIN IN SERVICE DURING THE CONSTRUCTION PHASE OF THIS PROJECT. ANY MODIFICATIONS TO THE EXISTING ELECTRICAL SYSTEMS THAT MAY REQUIRE THE TEMPORARY INTERRUPTION OF EXISTING SERVICES SHALL BE COORDINATED AND PRE-SCHEDULED WITH THE OWNER'S REPRESENTATIVE PRIOR TO STARTING ANY WORK.
2. COORDINATE ROUTING FOR ALL UNDERGROUND ELECTRICAL BRANCH CIRCUITS AND FEEDERS WITH OTHER DISCIPLINES PRIOR TO TRENCHING.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES CAUSED BY INSTALLATION OF NEW WORK.
4. CONTRACTOR SHALL BE RESPONSIBLE TO DEMOLISH TEMPORARY INFRASTRUCTURE SERVING THE INTERIM HOUSING AND BRING IT BACK TO ORIGINAL CONDITION, UPON COMPLETION OF THE MODERNIZATION PROJECT.

KEY NOTES

1. PROVIDE UNDERGROUND CONDUIT AND WIRING.
2. PROVIDE AND INSTALL IN-GROUND H-20 TRAFFIC RATED PULLBOX . SIZE PER NEC 314.28(A).
3. SEE SINGLE LINE DIAGRAM FOR WIRE SIZING AND QUANTITY ON SHEET E5.01.
4. SAWCUT, TRENCH AND EXCAVATE AS REQUIRED TO INSTALL CONDUITS AND FEEDERS AS INDICATED. BACKFILL, TAMP AND RESURFACE TO ORIGINAL CONDITION. STUB UP INTO EXTERIOR ABOVE GROUND JUNCTION BOX AND CONNECT LOAD SIDE TO NEW PANELBOARD. REFER TO DETAIL 6/E6.01 FOR FURTHER CONDUIT TRENCHING REQUIREMENTS.

1 ELECTRICAL SITE PLAN
1" = 30'-0"

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APP: 04-121814 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 08/11/2023

PBK

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leafengineers.com

FINLEY ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
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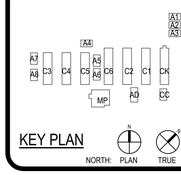
Westminster, CA 92683

DSA SUBMITTAL

DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43



KEY PLAN NORTH: PLAN TRUE

Consultant

REGISTERED PROFESSIONAL ENGINEER RONALD C DELA CRUZ No. E 23678 Exp. 06-30-2023 ELECTRICAL STATE OF CALIFORNIA

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
12-28-2022	220307

REVISIONS

No.	Description	Date

DSA SUBMITTAL

ELECTRICAL SITE PLAN

E1.01

FILE PATH: Z:\Projects\...
5/15/2023 11:29:47 AM

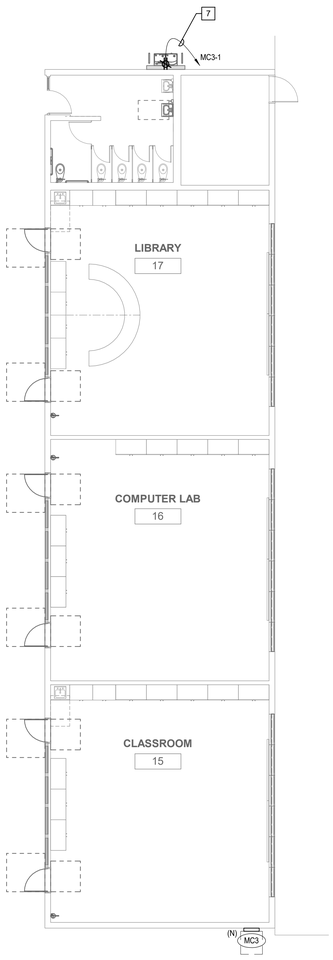
0" 1"

GENERAL NOTES

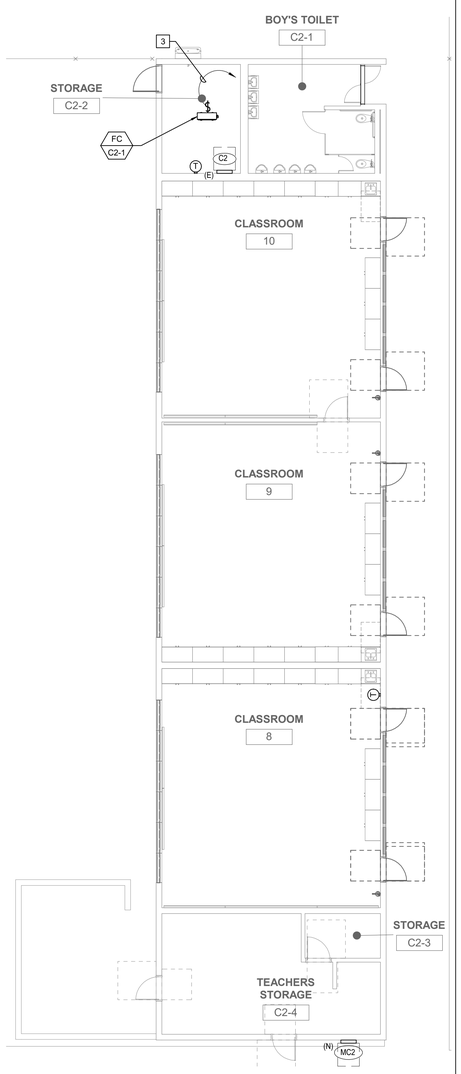
1. THE EXISTING BUILDING INCLUDING PORTIONS OF THE RENOVATED AREA SHALL REMAIN IN SERVICE DURING THE CONSTRUCTION PHASE OF THIS PROJECT. ANY MODIFICATIONS TO THE EXISTING ELECTRICAL SYSTEMS THAT MAY REQUIRE THE TEMPORARY INTERRUPTION OF EXISTING SERVICES SHALL BE COORDINATED AND PRE-SCHEDULED WITH THE OWNER'S REPRESENTATIVE PRIOR TO STARTING ANY WORK.
2. ALL EXISTING POWER/DATA OUTLETS SHALL REMAIN AND BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.
3. ALL EXISTING CEILING MOUNTED DEVICES SHALL BE REMOVED, STORED AND PROTECTED FOR RE-INSTALLATION.
4. FOR ALL EXISTING CIRCUITS AND DEVICES THAT ARE TO REMAIN, CONTRACTOR TO INCLUDE IN THEIR BID TO REMOVE AND REPLACE ALL MC CABLES ABOVE CEILING SPACES. INTERCEPT ALL CONDUITS ABOVE THE CEILING, PROVIDE NEW HOMERUNS WITH MINIMUM 3/4" EMT AND NEW WIRING THAT MATCHES THE EXISTING, BACK TO THE PANEL SOURCE.

KEY NOTES

1. EXISTING POWER/DATA OUTLETS SHALL REMAIN AND BE PROTECTED IN PLACE.
2. PROVIDE LOCAL DISCONNECT SWITCH TO NEW MECHANICAL UNITS.
3. NEW FAN COIL IS POWERED FROM OUTDOOR HEAT PUMP, PROVIDE 2#12 + 1#12 GRD., STUB UP TO ROOFTOP PACKAGE UNIT.
4. PROVIDE 120V POWER CONNECTION TO SUPPLY FAN.
5. NEW 208/120V-3PH PANEL DEDICATED TO NEW MECHANICAL EQUIPMENT.
6. NEW WALL MOUNTED PULLBOX, 12"x12"xDEPTH REQ'D.
7. PROVIDE 120V POWER CONNECTION TO NEW DRINKING FOUNTAIN. INSTALL 20A/1P GFCI TYPE CIRCUIT BREAKER IN PANEL AND GFCI TYPE RECEPTACLE AT DRINKING FOUNTAIN. 3/4"C-2#12 + 1#12 GRD.

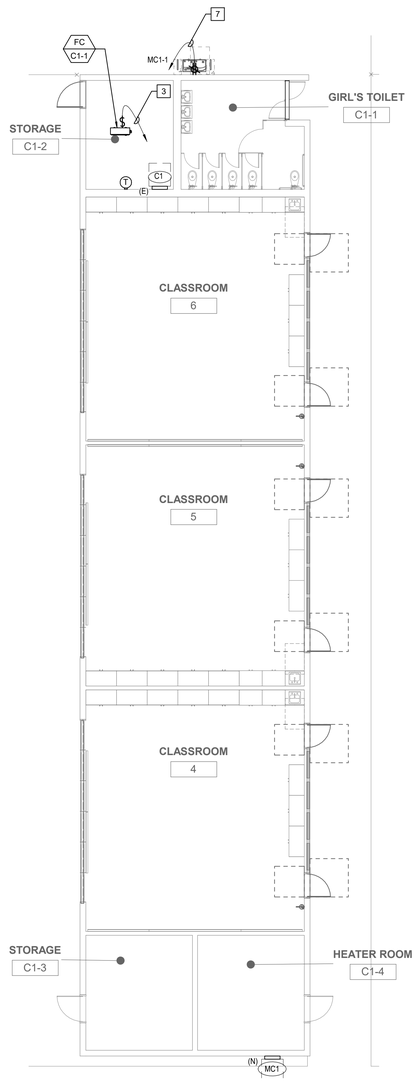


4 POWER PLAN - BUILDING C3
1/8" = 1'-0"

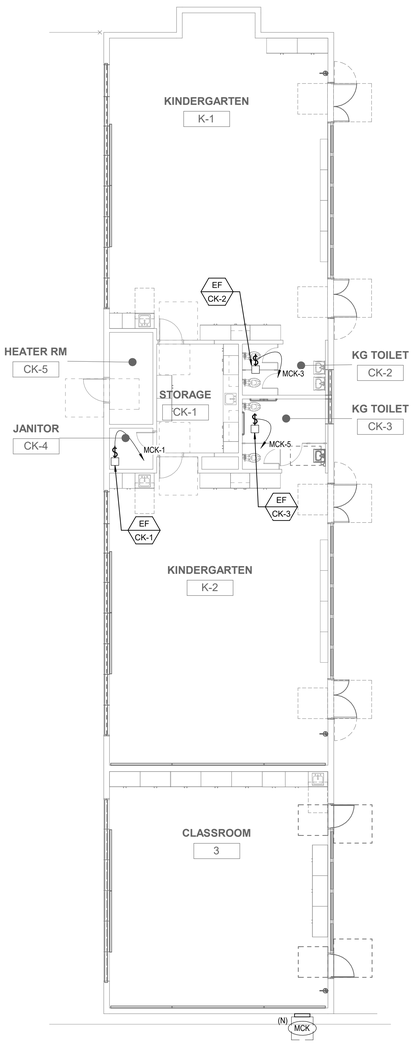


FOR REFERENCE ONLY

3 POWER PLAN - BUILDING C2
1/8" = 1'-0"



2 POWER PLAN - BUILDING C1
1/8" = 1'-0"



1 POWER PLAN - BUILDING CK
1/8" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121814 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/11/2023

PBK

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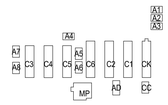
FINLEY ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
13521 Edwards St.
Westminster, CA 92683

DSA SUBMITTAL

DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43



KEY PLAN
NORTH: PLAN TRUE

Consultant
REGISTERED PROFESSIONAL ENGINEER
RONALD C DELA CRUZ
No. E 23678
Exp. 12-31-2023
ELECTRICAL
STATE OF CALIFORNIA

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
12-28-2022	220307

REVISIONS

No.	Description	Date

DSA SUBMITTAL

ELECTRICAL POWER PLANS

E2.01

FILE PATH: Z:\Projects\...
5/15/2023 11:29:49 AM

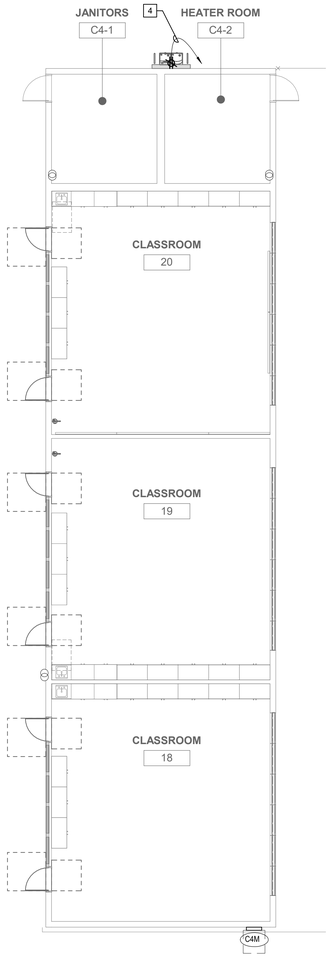
0" 1"

GENERAL NOTES

1. THE EXISTING BUILDING INCLUDING PORTIONS OF THE RENOVATED AREA SHALL REMAIN IN SERVICE DURING THE CONSTRUCTION PHASE OF THIS PROJECT. ANY MODIFICATIONS TO THE EXISTING ELECTRICAL SYSTEMS THAT MAY REQUIRE THE TEMPORARY INTERRUPTION OF EXISTING SERVICES SHALL BE COORDINATED AND PRE-SCHEDULED WITH THE OWNER'S REPRESENTATIVE PRIOR TO STARTING ANY WORK.
2. ALL EXISTING POWER/DATA OUTLETS SHALL REMAIN AND BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.
3. ALL EXISTING CEILING MOUNTED DEVICES SHALL BE REMOVED, STORED AND PROTECTED FOR RE-INSTALLATION.
4. FOR ALL EXISTING CIRCUITS AND DEVICES THAT ARE TO REMAIN, CONTRACTOR TO INCLUDE IN THEIR BID TO REMOVE AND REPLACE ALL MC CABLES ABOVE CEILING SPACES. INTERCEPT ALL CONDUITS ABOVE THE CEILING, PROVIDE NEW HOMERUNS WITH MINIMUM 3/4" EMT AND NEW WIRING THAT MATCHES THE EXISTING, BACK TO THE PANEL SOURCE.

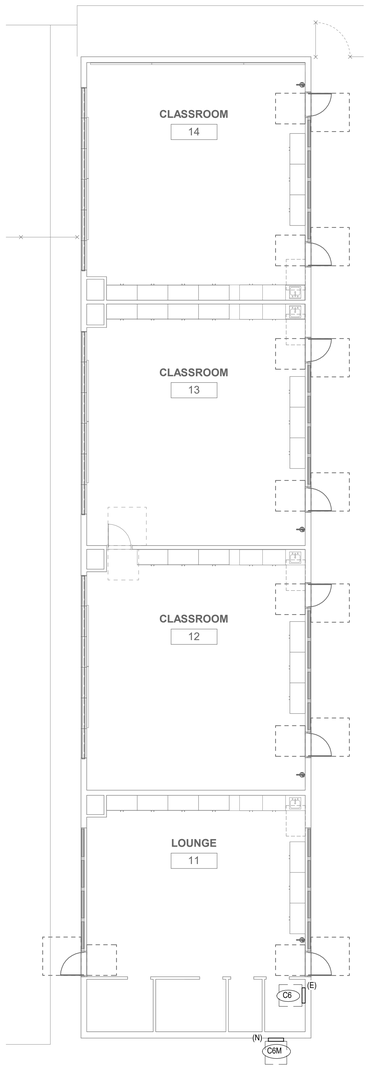
KEY NOTES

1. PROVIDE LOCAL DISCONNECT SWITCH TO NEW MECHANICAL UNITS.
2. NEW FAN COIL IS POWERED FROM OUTDOOR HEAT PUMP, PROVIDE 2#12 + 1#12 GRD., STUB UP TO ROOFTOP PACKAGE UNIT.
3. PROVIDE 120V POWER CONNECTION TO SUPPLY FAN, 3/4"C-2#12 + 1#12 GRD.
4. PROVIDE 120V POWER CONNECTION TO NEW DRINKING FOUNTAIN. INSTALL 20A/1P GFCI TYPE CIRCUIT BREAKER IN NEAREST 120V PANEL AND GFCI TYPE RECEPTACLE AT DRINKING FOUNTAIN. 3/4"C-2#12 + 1#12 GRD.



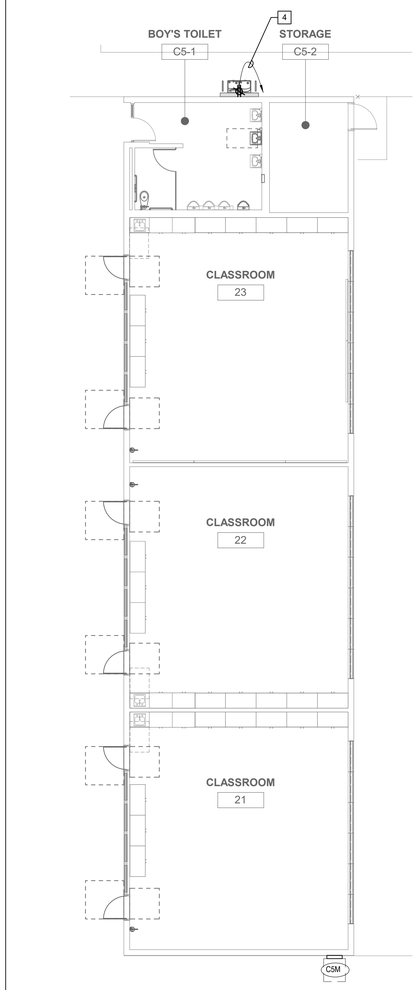
FOR REFERENCE ONLY

4 POWER PLAN - BUILDING C4
1/8" = 1'-0"

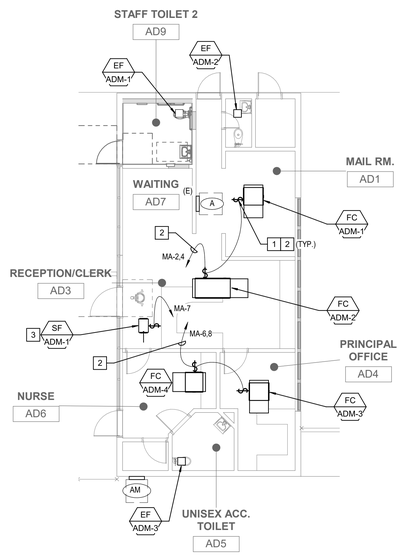


FOR REFERENCE ONLY

3 POWER PLAN - BUILDING C6
1/8" = 1'-0"



2 POWER PLAN - BUILDING C5
1/8" = 1'-0"



1 POWER PLAN - ADMIN BLDG
1/8" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121814 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/11/2023

PBK

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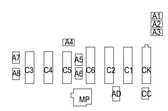
Rancho Cucamonga, CA 91730
909.987-0909
leafengineers.com

FINLEY ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
13521 Edwards St.
Westminster, CA 92683

DSA SUBMITTAL

DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43



Consultant

REGISTERED PROFESSIONAL ENGINEER
RONALD C DELA CRUZ
No. E 23676
Exp. 9-30-23
ELECTRICAL
STATE OF CALIFORNIA

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
12-28-2022	220307

REVISIONS

No.	Description	Date

DSA SUBMITTAL

ELECTRICAL POWER PLANS

E2.02

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5/15/2023 11:29:50 AM

E3.01 - ELECTRICAL LIGHTING PLAN

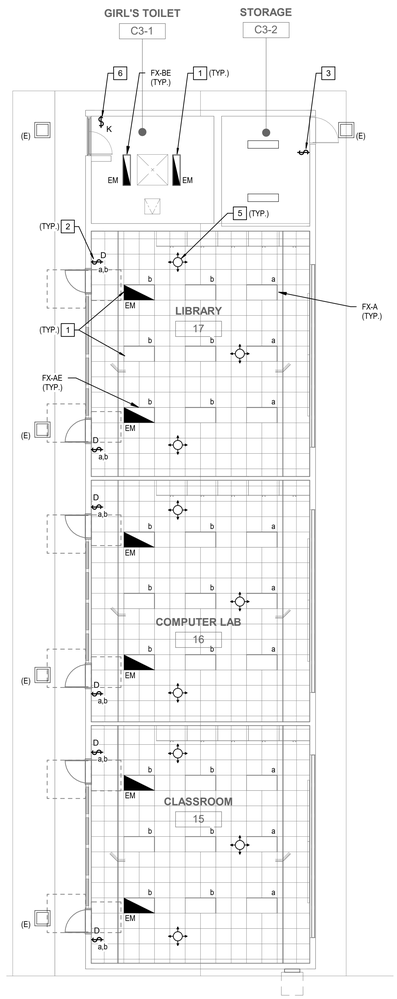
0" 1"

GENERAL NOTES

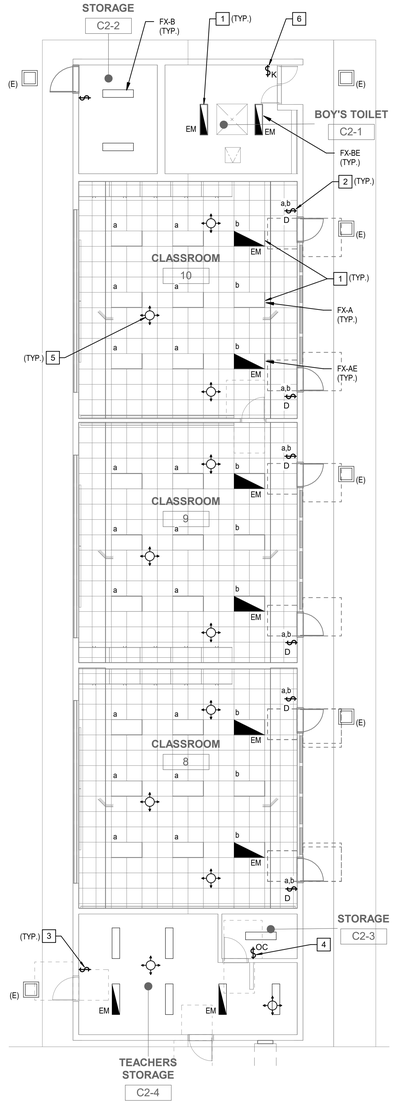
1. THE EXISTING BUILDING INCLUDING PORTIONS OF THE RENOVATED AREA SHALL REMAIN IN SERVICE DURING THE CONSTRUCTION PHASE OF THIS PROJECT. ANY MODIFICATIONS TO THE EXISTING ELECTRICAL SYSTEMS THAT MAY REQUIRE THE TEMPORARY INTERRUPTION OF EXISTING SERVICES SHALL BE COORDINATED AND PRE-SCHEDULED WITH THE OWNER'S REPRESENTATIVE PRIOR TO STARTING ANY WORK.
2. EXTEND EXISTING CIRCUIT TO THE NEW LIGHT FIXTURES WITH NEW FIXTURE WHIPS WITH 2 #12, #12G WIRING AND ADDITIONAL LOW VOLTAGE WIRING FOR DIMMING AS REQUIRED.
3. PROVIDE A COMPLETE AND OPERATIONAL SYSTEM OF OCCUPANCY SENSORS FOR ON/OFF CONTROL OF ALL LIGHT FIXTURES INCLUDING BUT NOT LIMITED TO POWER PACKS, WIRING, ETC. RE: DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. PROVIDE EMERGENCY BATTERY PACKS FOR ALL LIGHTING FIXTURES DESIGNATED TO BE ON EMERGENCY POWER AND EXIT SIGNS. PROVIDE CONNECTION TO CENTER LAMP BALLAST ONLY. PROVIDE UNSWITCHED HOT TO BATTERY SO THAT LAMPS CAN BE SWITCHED OFF AND ON WITHOUT DRAINING BATTERY. RE: DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION. PROVIDE 20A UNSWITCHED BRANCH CIRCUIT (2#12, 1#12G, 3/4"C) FROM LIGHTING PANEL TO ALL EXIT SIGNS IN THIS AREA.
5. FOR ALL EXISTING CIRCUITS AND DEVICES THAT ARE TO REMAIN, CONTRACTOR TO INCLUDE IN THEIR BID TO REMOVE AND REPLACE ALL MC CABLES ABOVE CEILING SPACES. INTERCEPT ALL CONDUITS ABOVE THE CEILING, PROVIDE NEW HOMERUNS WITH MINIMUM 3/4" EMT AND NEW WIRING THAT MATCHES THE EXISTING, BACK TO THE PANEL SOURCE.

KEY NOTES

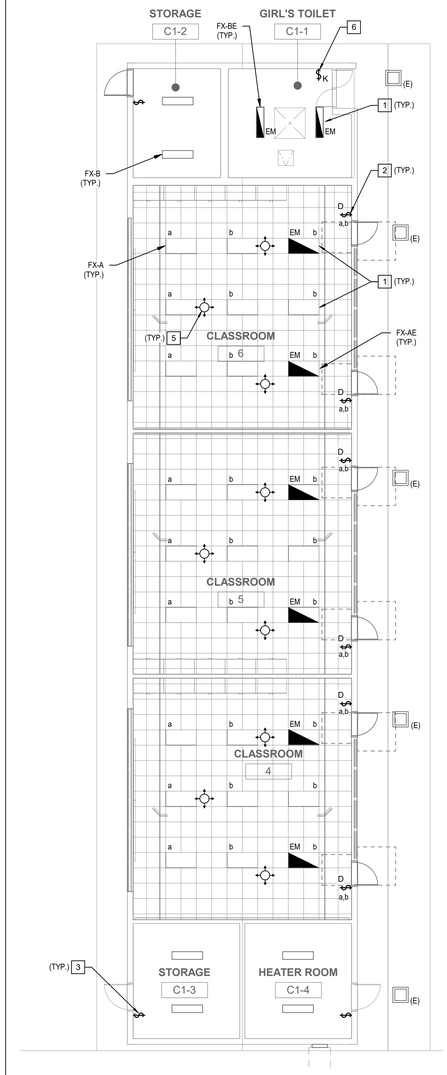
1. REMOVE AND REPLACE EXSTING LIGHT FIXTURE WITH NEW LED LIGHT FIXTURE. CONTRACTOR TO EXTEND EXISTING CIRCUIT FROM JUNCTION BOX TO ALL THE FIXTURES IN THE ROOM. PROVIDE NEW FIXTURE WHIPS AS REQUIRED WITH 2#12, #12GRD FOR LINE VOLTAGE. PLUS DIMMING WIRES AS REQUIRED. SEE LIGHT FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.
2. LOW VOLTAGE ON/OFF WALL SWITCH WITH DIMMING, LUTRON MAESTRO SERIES
3. LOW VOLTAGE ON/OFF MANUAL WALL SWITCH, LUTRON MAESTRO SERIES
4. LOW VOLTAGE ON/OFF WALL SWITCH WITH DIMMING AND OCCUPANCY SENSOR, LUTRON MAESTRO SERIES
5. LOW VOLTAGE CEILING MOUNTED WIRELESS OCCUPANCY SENSOR, RADIO PWR SAVR SERIES
6. LOW VOLTAGE ON/OFF WALL KEYSWITCH, LUTRON QS SERIES.



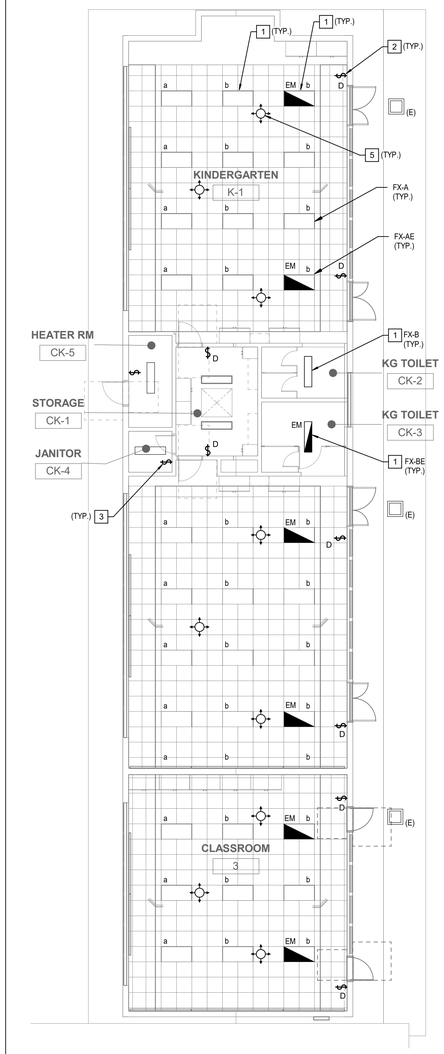
4 LIGHTING PLAN - BUILDING C3
1/8" = 1'-0"



3 LIGHTING PLAN - BUILDING C2
1/8" = 1'-0"



2 LIGHTING PLAN - BUILDING C1
1/8" = 1'-0"



1 LIGHTING PLAN - BUILDING CK
1/8" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121814 INC:
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SS ☑ FLS ☑ ACS ☑
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PBK

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FINLEY ES HVAC UPGRADE & MODERNIZATION

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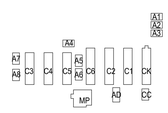
DSA SUBMITTAL

DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43



KEY PLAN NORTH: PLAN TRUE

Consultant

REGISTERED PROFESSIONAL ENGINEER
RONALD C DELA CRUZ
No. E 23574
Exp. 09-30-2023
ELECTRICAL
STATE OF CALIFORNIA

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
12-28-2022	220307

REVISIONS

No.	Description	Date

DSA SUBMITTAL

ELECTRICAL LIGHTING PLAN

E3.01

FILE PATH: Z:\Projects\...
5/15/2023 11:29:52 AM

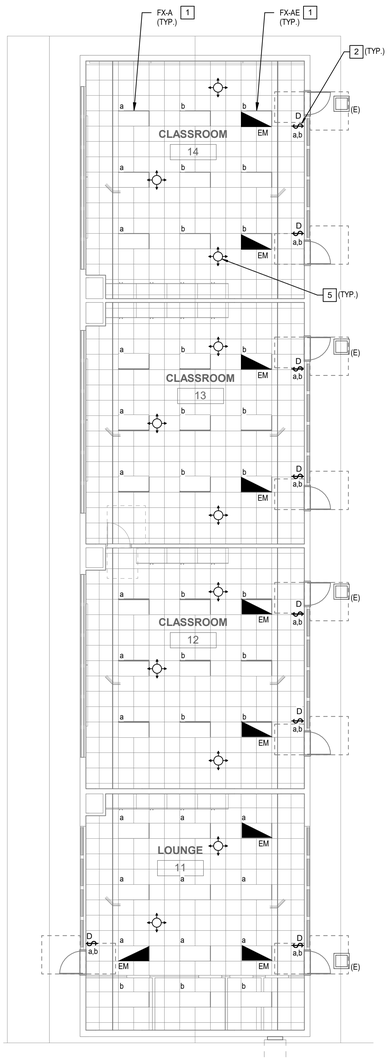
0" 1"

GENERAL NOTES

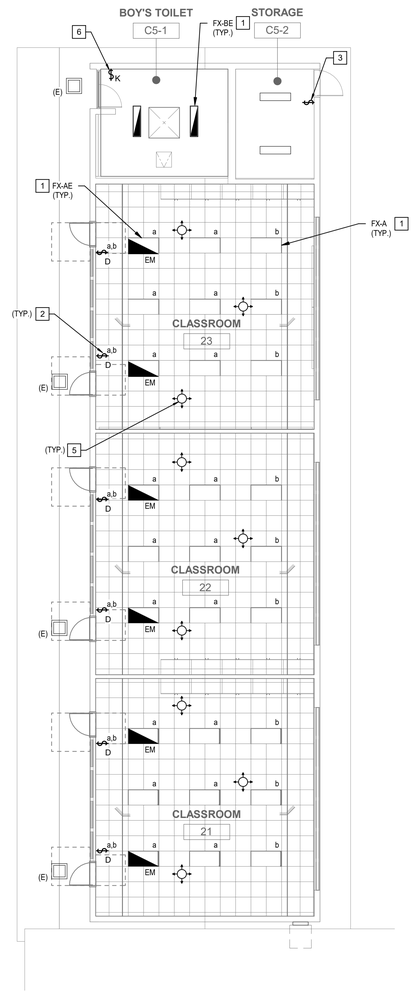
1. THE EXISTING BUILDING INCLUDING PORTIONS OF THE RENOVATED AREA SHALL REMAIN IN SERVICE DURING THE CONSTRUCTION PHASE OF THIS PROJECT. ANY MODIFICATIONS TO THE EXISTING ELECTRICAL SYSTEMS THAT MAY REQUIRE THE TEMPORARY INTERRUPTION OF EXISTING SERVICES SHALL BE COORDINATED AND PRE-SCHEDULED WITH THE OWNER'S REPRESENTATIVE PRIOR TO STARTING ANY WORK.
2. EXTEND EXISTING CIRCUIT TO THE NEW LIGHT FIXTURES WITH NEW FIXTURE WHIPS WITH 2 #12, #12G WIRING AND ADDITIONAL LOW VOLTAGE WIRING FOR DIMMING AS REQUIRED.
3. PROVIDE A COMPLETE AND OPERATIONAL SYSTEM OF OCCUPANCY SENSORS FOR ON/OFF CONTROL OF ALL LIGHT FIXTURES INCLUDING BUT NOT LIMITED TO POWER PACKS, WIRING, ETC. RE: DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. PROVIDE EMERGENCY BATTERY PACKS FOR ALL LIGHTING FIXTURES DESIGNATED TO BE ON EMERGENCY POWER AND EXIT SIGNS. PROVIDE CONNECTION TO CENTER LAMP BALLAST ONLY. PROVIDE UNSWITCHED HOT TO BATTERY SO THAT LAMPS CAN BE SWITCHED OFF AND ON WITHOUT DRAINING BATTERY. RE: DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION. PROVIDE 20A UNSWITCHED BRANCH CIRCUIT (2#12, 1#12G, 3/4"C) FROM LIGHTING PANEL TO ALL EXIT SIGNS IN THIS AREA.

KEY NOTES

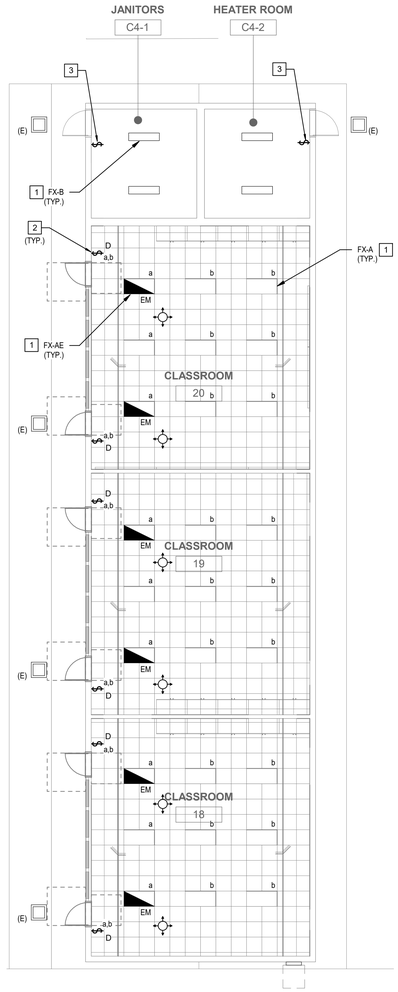
1. REMOVE AND REPLACE EXSTING LIGHT FIXTURE WITH NEW LED LIGHT FIXTURE. CONTRACTOR TO EXTEND EXISTING CIRCUIT FROM JUNCTION BOX TO ALL THE FIXTURES IN THE ROOM. PROVIDE NEW FIXTURE WHIPS AS REQUIRED WITH 2#12 + 1 #12 GRD. FOR LINE VOLTAGE, PLUS DIMMING WIRES AS REQUIRED. SEE LIGHT FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.
2. LOW VOLTAGE ON/OFF WALL SWITCH WITH DIMMING, LUTRON MAESTRO SERIES
3. LOW VOLTAGE ON/OFF MANUAL WALL SWITCH, LUTRON MAESTRO SERIES
4. LOW VOLTAGE ON/OFF WALL SWITCH WITH DIMMING AND OCCUPANCY SENSOR, LUTRON MAESTRO SERIES
5. LOW VOLTAGE CEILING MOUNTED WIRELESS OCCUPANCY SENSOR, RADIO PWR SAVR SERIES
6. LOW VOLTAGE ON/OFF WALL KEYSWITCH, LUTRON QS SERIES.



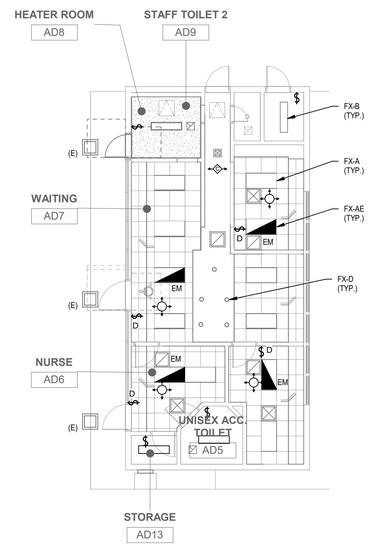
5 LIGHTING PLAN - BUILDING C6
1/8" = 1'-0"



4 LIGHTING PLAN - BUILDING C5
1/8" = 1'-0"



3 LIGHTING PLAN - BUILDING C4
1/8" = 1'-0"



1 LIGHTING PLAN - ADMIN BLDG
1/8" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121814 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/11/2023

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909.987-0909
leafengineers.com

FINLEY ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
13521 Edwards St.
Westminster, CA 92683

DSA SUBMITTAL

DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43

A1 A2 A3 A4 A7 A8 C3 C4 C5 A5 A6 C6 C2 C1 CK A9 MP C7

KEY PLAN
NORTH: PLAN TRUE

Consultant

REGISTERED PROFESSIONAL ENGINEER
RONALD C DELA CRUZ
No. E 23576
Exp. 09-30-2023
ELECTRICAL
STATE OF CALIFORNIA

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
12-28-2022	220307

REVISIONS

No.	Description	Date

DSA SUBMITTAL

ELECTRICAL LIGHTING PLANS

E3.02

FILE PATH: Z:\Projects\...
5/15/2023 11:29:53 AM

E4.01 - ELECTRICAL ROOF PLANS

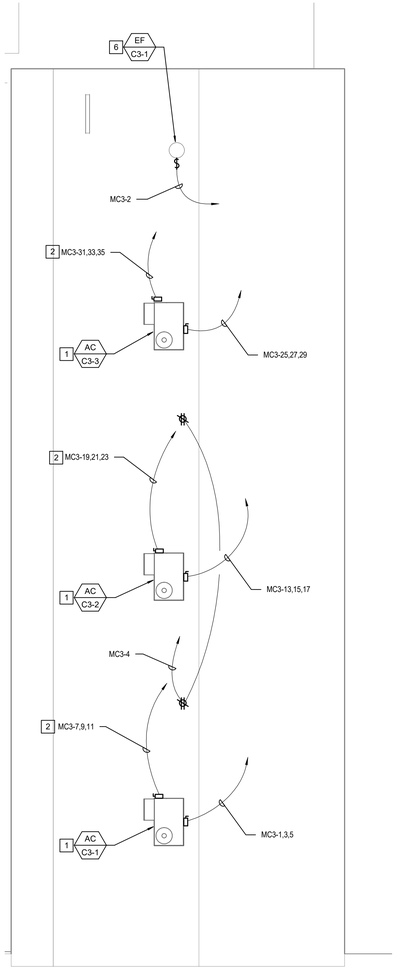
0" 1"

GENERAL NOTES

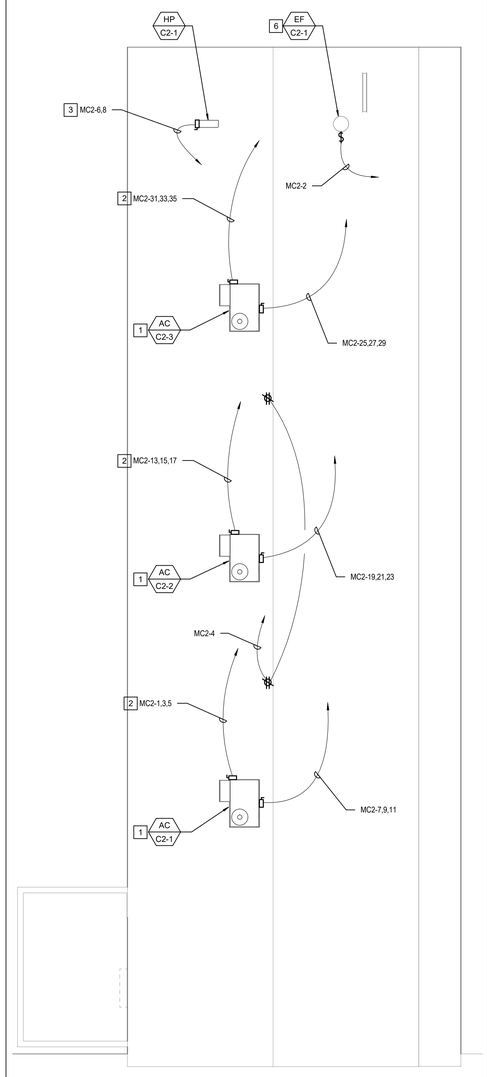
1. THE EXISTING BUILDING INCLUDING PORTIONS OF THE RENOVATED AREA SHALL REMAIN IN SERVICE DURING THE CONSTRUCTION PHASE OF THIS PROJECT. ANY MODIFICATIONS TO THE EXISTING ELECTRICAL SYSTEMS THAT MAY REQUIRE THE TEMPORARY INTERRUPTION OF EXISTING SERVICES SHALL BE COORDINATED AND PRE-SCHEDULED WITH THE OWNER'S REPRESENTATIVE PRIOR TO STARTING ANY WORK.
2. ALL ELECTRICAL EQUIPMENT/DEVICES ON THE ROOF SHALL BE WEATHER PROOF, NEMA 3R AND +8" ABOVE FINISHED ROOF LEVEL AND ROOF PENETRATIONS SHALL BE FLASHED.

KEY NOTES

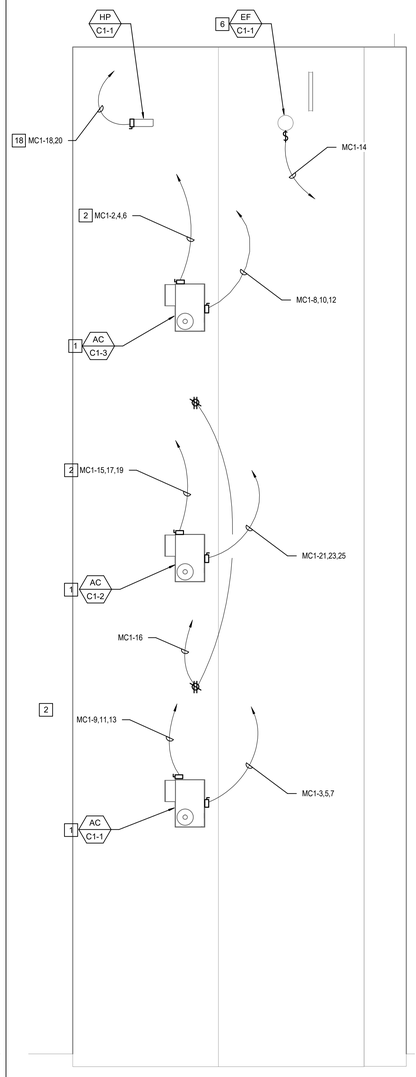
1. PROVIDE 208V/3PH POWER CONNECTION TO AC UNIT, 1"C-3#10+1#10 GRD. (TYP.)
2. PROVIDE 208V/3PH POWER CONNECTION TO POWER EXHAUST. 3/4"C-3#12+1#12 GRD. (TYP.)
3. PROVIDE 208V/1PH POWER CONNECTION TO HP UNITS, 3/4"C 3#12 + 1#12 GRD. (TYP.)
4. FUSED DISCONNECT SWITCH, NEMA 3R FACTORY MOUNTED BY MECHANICAL. SEE MECHANICAL SCHEDULES FOR ADDITIONAL INFORMATION.
5. PROVIDE NEW ROOF TOP RECEPTACLE (WP) GFCI TYPE.
6. PROVIDE 120V/1PH POWER CONNECTION TO EXHAUST FAN, 3/4"C - 2#12 + 1#12 GRD. (TYP.)



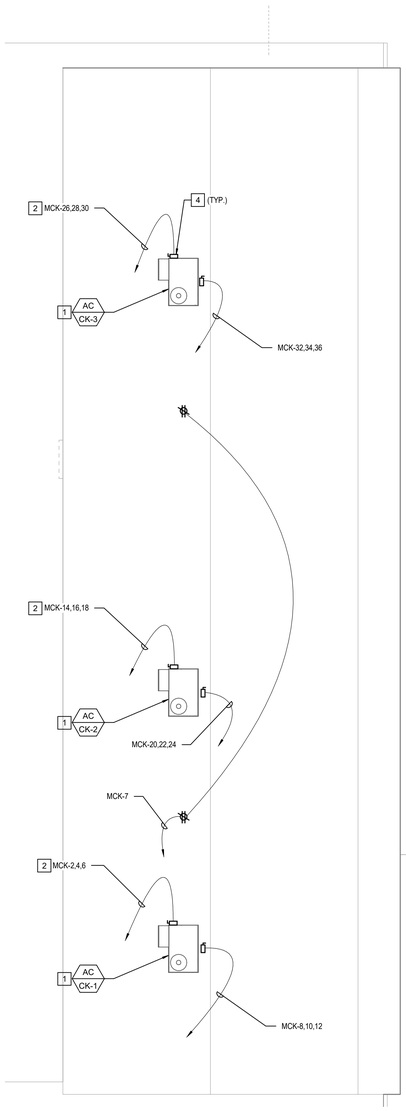
4 ELECTRICAL ROOF PLAN - BLDG C3
1/8" = 1'-0"



3 ELECTRICAL ROOF PLAN - BLDG C2
1/8" = 1'-0"



2 ELECTRICAL ROOF PLAN - BLDG C1
1/8" = 1'-0"



1 ELECTRICAL ROOF PLAN - BLDG CK
1/8" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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SS ☑ FLS ☑ ACS ☑
DATE: 08/11/2023

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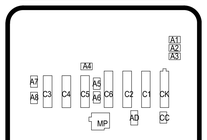
FINLEY ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
13521 Edwards St.
Westminster, CA 92683

DSA SUBMITTAL

DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43



KEY PLAN
NORTH: PLAN TRUE

Consultant

REGISTERED PROFESSIONAL ENGINEER
RONALD C DELA CRUZ
No. E 23676
Exp. 09-30-2023
ELECTRICAL
STATE OF CALIFORNIA

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
12-28-2022	220307

REVISIONS

No.	Description	Date

DSA SUBMITTAL

ELECTRICAL ROOF PLANS

E4.01

FILE PATH: Z:\Projects\...
5/15/2023 11:29:55 AM

E4.02 - ELECTRICAL ROOF PLANS

0" 1"

GENERAL NOTES

1. THE EXISTING BUILDING INCLUDING PORTIONS OF THE RENOVATED AREA SHALL REMAIN IN SERVICE DURING THE CONSTRUCTION PHASE OF THIS PROJECT. ANY MODIFICATIONS TO THE EXISTING ELECTRICAL SYSTEMS THAT MAY REQUIRE THE TEMPORARY INTERRUPTION OF EXISTING SERVICES SHALL BE COORDINATED AND PRE-SCHEDULED WITH THE OWNER'S REPRESENTATIVE PRIOR TO STARTING ANY WORK.
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3. PROVIDE 208V/1PH POWER CONNECTION TO HP UNITS, 3/4"C 3#12 + 1#12 GRD. (TYP.)
4. FUSED DISCONNECT SWITCH, NEMA 3R FACTORY MOUNTED BY MECHANICAL. SEE MECHANICAL SCHEDULES FOR ADDITIONAL INFORMATION.
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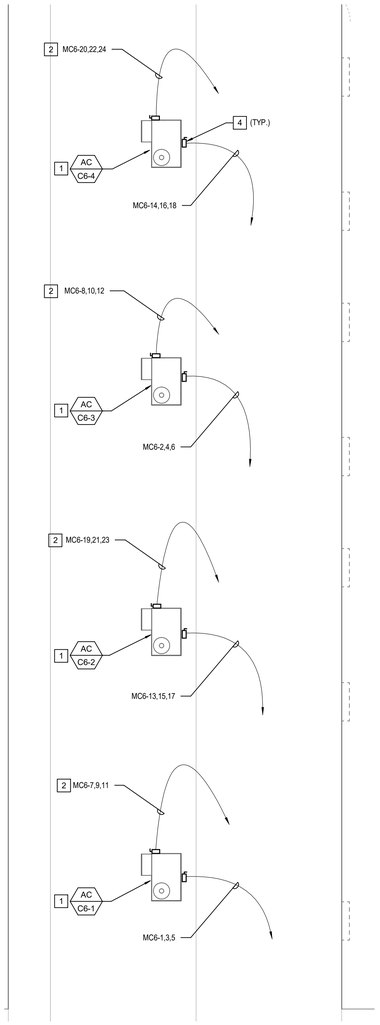
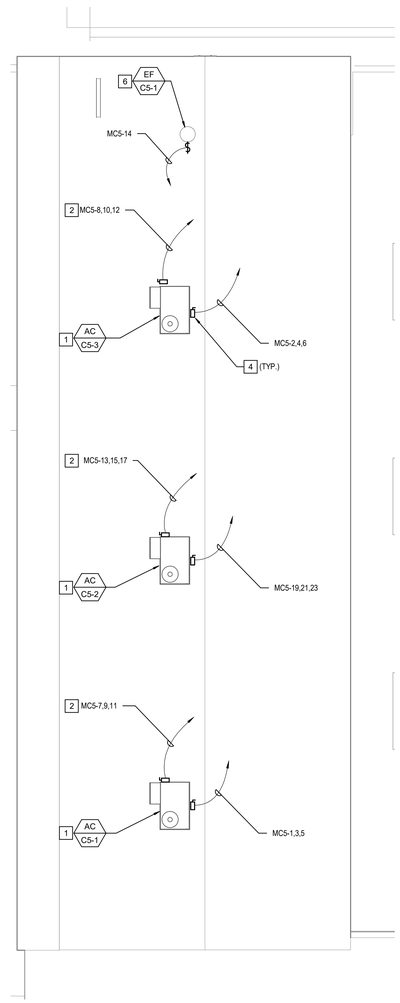
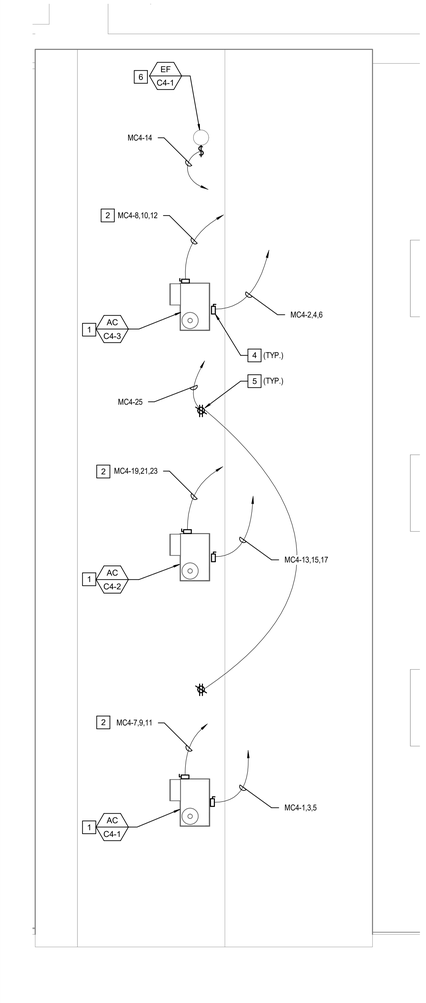


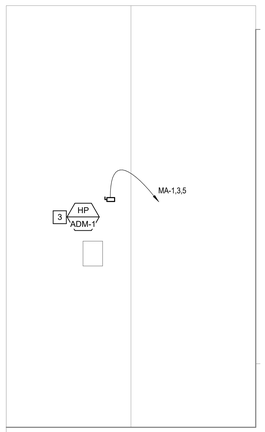
4 ELECTRICAL ROOF PLAN - BLDG C6
1/8" = 1'-0"



3 ELECTRICAL ROOF PLAN - BLDG C5
1/8" = 1'-0"



2 ELECTRICAL ROOF PLAN - BLDG C4
1/8" = 1'-0"



1 ELECTRICAL ROOF PLAN - ADMIN BLDG
1/8" = 1'-0"

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IDENTIFICATION STAMP
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leafengineers.com

FINLEY ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
13521 Edwards St.
Westminster, CA 92683

DSA SUBMITTAL

DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43

KEY PLAN
NORTH: PLAN TRUE

Consultant
REGISTERED PROFESSIONAL ENGINEER
RONALD C DELA CRUZ
No. E 22676
Exp. 9-30-23
ELECTRICAL
STATE OF CALIFORNIA

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
12-28-2022	220307

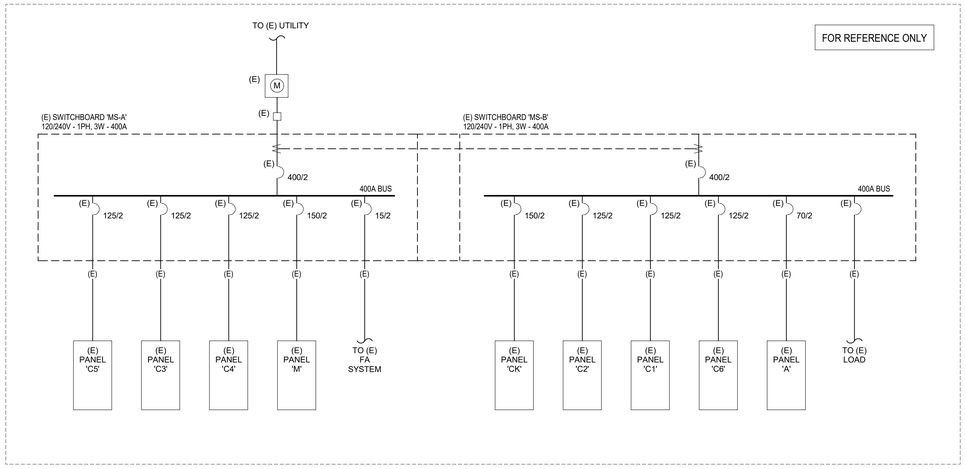
REVISIONS

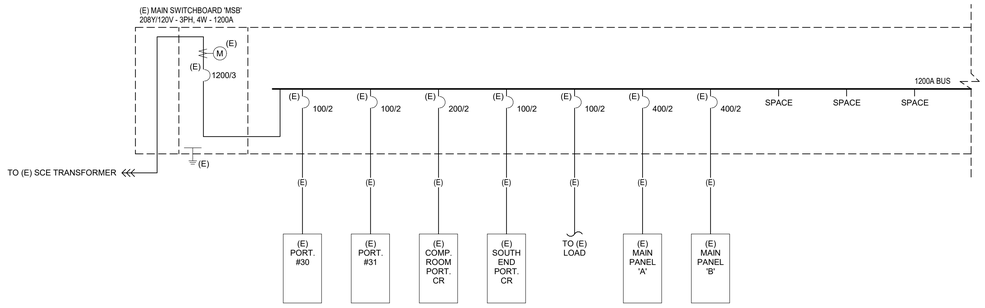
No.	Description	Date

DSA SUBMITTAL

ELECTRICAL ROOF PLANS

E4.02





ELECTRICAL ONE-LINE DIAGRAM NOTES:

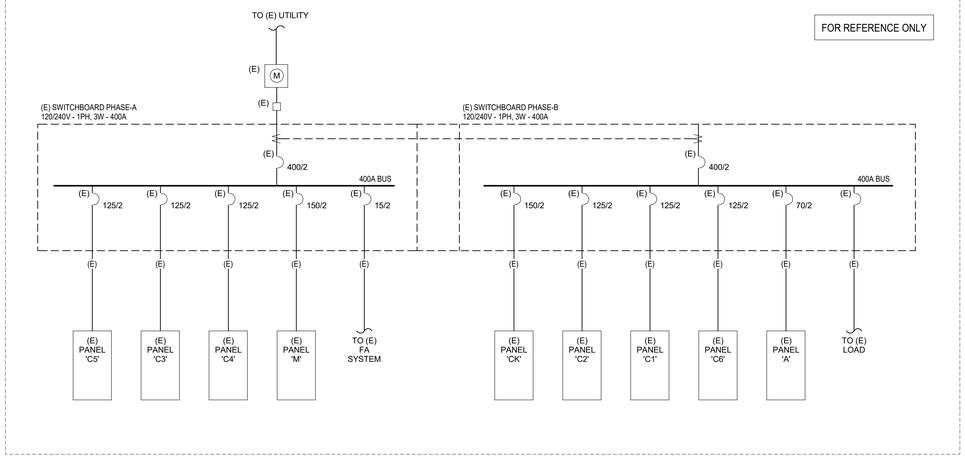
#. INDICATES GENERAL NOTE.
Ⓚ INDICATES KEYED NOTE.

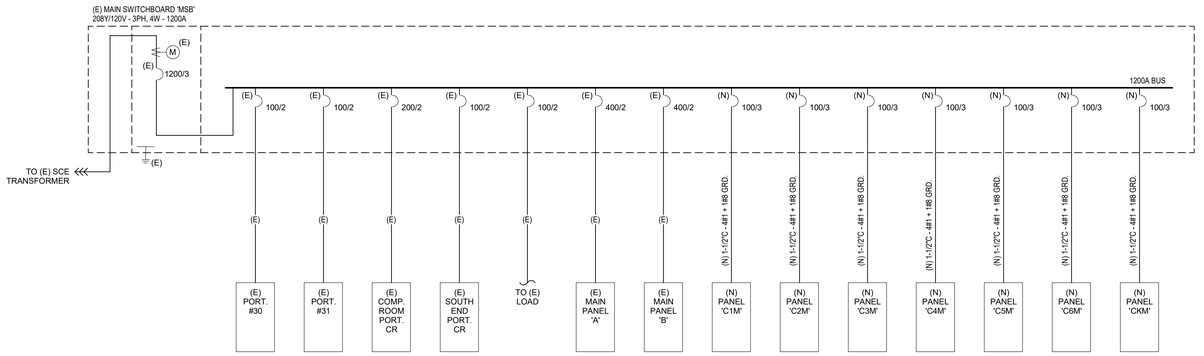
1. REFER TO RISER DIAGRAM FOR FEEDER WIRE / CONDUIT SIZES AND FOR ALL FEEDER SIZES NOT SHOWN ON THIS SHEET.

(1) NEC 285 SURGE PROTECTIVE DEVICE. RE: DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION.

1 ELECTRICAL ONE-LINE DIAGRAM - EXISTING

NOT TO SCALE





ELECTRICAL ONE-LINE DIAGRAM NOTES:

#. INDICATES GENERAL NOTE.
Ⓚ INDICATES KEYED NOTE.

1. REFER TO RISER DIAGRAM FOR FEEDER WIRE / CONDUIT SIZES AND FOR ALL FEEDER SIZES NOT SHOWN ON THIS SHEET.

(1) NEC 285 SURGE PROTECTIVE DEVICE. RE: DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION.

2 ELECTRICAL ONE-LINE DIAGRAM - NEW

NOT TO SCALE

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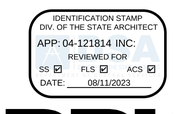

KEY PLAN
NORTH: PLAN TRUE

Consultant

REGISTERED PROFESSIONAL ENGINEER
RONALD C DELA CRUZ
No. E 23574
Exp. 12-31-2023
ELECTRICAL
STATE OF CALIFORNIA

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
12-28-2022	220307

REVISIONS

No.	Description	Date

DSA SUBMITTAL

ELECTRICAL SINGLE LINE DIAGRAM & SCHEDULES

E5.01

0" 1"

Job: Finley ES Modernization   Job No. 220307AR

Mounting SURFACE
Main Type MCB (100A)
Neutral 100%
Voltage: 208Y/120V-3PH 4W
Main Size: 125 AMPS
AIC Rating 10000
Ground Equipment Ground
Lugs SINGLE

PANEL: MA

ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
		1615					0.00	HP 'ADM-1'	30/3	10	1	A	2	12	15/2	FC 'ADM-1' & 'ADM-2'			467					0.00
		1615					0.00	----	--	10	3	B	4	12	--	----			467					0.00
		1615					0.00	----	--	10	5	C	6	12	15/2	FC 'ADM-3' & 'ADM-4			354					0.00
		200					0.00	SF 'ADM-1'	15/1	12	7	A	8	12	--	----			354					0.00
	360						0.00	Rooftop Recept.	20/1	12	9	B	10		20/1	SPARE								1.00
							1.00	SPARE	20/1		11	C	12		20/1	SPARE								1.00
							1.00	SPARE	20/1		13	A	14		20/1	SPARE								1.00
							1.00	SPARE	20/1		15	B	16		20/1	SPARE								1.00
							1.00	SPARE	20/1		17	C	18		20/1	SPARE								1.00
							1.00	SPARE	20/1		19	A	20		20/1	SPARE								1.00
							1.00	SPARE	20/1		21	B	22		20/1	SPARE								1.00
							1.00	SPARE	20/1		23	C	24		20/1	SPARE								1.00
							1.00	SPARE	20/1		25	A	26			SPACE								0.00
							0.00	SPACE			27	B	28			SPACE								0.00
							0.00	SPACE			29	C	30			SPACE								0.00
							0.00	SPACE			31	A	32			SPACE								0.00
							0.00	SPACE			33	B	34			SPACE								0.00
							0.00	SPACE			35	C	36			SPACE								0.00
							0.00	SPACE			37	A	38			SPACE								0.00
							0.00	SPACE			39	B	40			SPACE								0.00
							0.00	SPACE			41	C	42			SPACE								0.00
0	360	5046	0	0	0	0	8.00	TOTALS								TOTALS	0	0	1642	0	0	0	0	8.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	0.4	6.7	0.0	0.0	0.0	0.0	16.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	0.4	6.7	0.0	0.0	0.0	0.0	8.0	Design KVA

Phase Load

Ph	KVA
A	2.6
B	2.4
C	2.0

Panel Remarks:
NEW PANEL

*Input div. factor per descriptions as required for calculations.
**100% of 1st 10 KVA, 50% of remaining.

	Con. KVA	Con. Amps	Des. KVA	Des. Amps
TOTAL	23.0	64.0	15.0	41.8

PANEL **MA**

Date: 4/14/2023   By: N.OROPEZA

Job: Finley ES Modernization   Job No. 220307AR

Mounting SURFACE
Main Type MCB (200A)
Neutral 100%
Voltage: 208Y/120V-3PH 4W
Main Size: 225 AMPS
AIC Rating 42000
Ground Equipment Ground
Lugs SINGLE

PANEL: MC3

ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
		2011					0.00	AC 'C3-1'	40/3	8	1	A	2	12	15/1	EF 'C3-1'			40					0.00
		2011					0.00	---	--	8	3	B	4	12	20/1	Rooftop Recept.		360						0.00
		2011					0.00	---	--	8	5	C	6		20/1	SPARE								1.00
		555					0.00	AC 'C3-1' PWR EXH	15/3	12	7	A	8		20/1	SPARE								1.00
		555					0.00	---	--	12	9	B	10		20/1	SPARE								1.00
		555					0.00	---	--	12	11	C	12		20/1	SPARE								1.00
		2011					0.00	AC 'C3-2'	40/3	8	13	A	14		20/1	SPARE								1.00
		2011					0.00	---	--	8	15	B	16		20/1	SPARE								1.00
		2011					0.00	---	--	8	17	C	18		20/1	SPARE								1.00
		555					0.00	AC 'C3-2' PWR EXH	15/3	12	19	A	20			SPACE								0.00
		555					0.00	---	--	12	21	B	22			SPACE								0.00
		555					0.00	---	--	12	23	C	24			SPACE								0.00
		1664					0.00	AC 'C3-3'	30/3	10	25	A	26			SPACE								0.00
		1664					0.00	---	--	10	27	B	28			SPACE								0.00
		1664					0.00	---	--	10	29	C	30			SPACE								0.00
		340					0.00	AC 'C3-3' PWR EXH	15/3	12	31	A	32			SPACE								0.00
		340					0.00	---	--	12	33	B	34			SPACE								0.00
		340					0.00	---	--	12	35	C	36			SPACE								0.00
							0.00	SPACE			37	A	38			SPACE								0.00
							0.00	SPACE			39	B	40			SPACE								0.00
							0.00	SPACE			41	C	42			SPACE								0.00
0	0	21403	0	0	0	0	0.00	TOTALS								TOTALS	0	360	40	0	0	0	0	7.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	0.4	21.4	0.0	0.0	0.0	0.0	7.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	0.4	21.4	0.0	0.0	0.0	0.0	3.5	Design KVA

Phase Load

Ph	KVA
A	7.2
B	7.5
C	7.1

Panel Remarks:
NEW PANEL

*Input div. factor per descriptions as required for calculations.
**100% of 1st 10 KVA, 50% of remaining.

	Con. KVA	Con. Amps	Des. KVA	Des. Amps
TOTAL	28.8	79.9	25.3	70.2

PANEL **MC3**

Date: 4/14/2023   By: N.OROPEZA

Job: Finley ES Modernization   Job No. 220307AR

Mounting SURFACE
Main Type MCB (100A)
Neutral 100%
Voltage: 208Y/120V-3PH 4W
Main Size: 125 AMPS
AIC Rating 10000
Ground Equipment Ground
Lugs SINGLE

PANEL: MC1

ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	200						0.00	DRINKING FOUNTAIN	20/1	12	1	A	2	8	40/3	AC 'C1-3'								0.00
							0.00	AC 'C1-1'	40/3	8	3	B	4	8	--	---								0.00
							0.00	---	--	8	5	C	6	8	--	---								0.00
							0.00	---	--	8	7	A	8	12	15/3	AC 'C1-3' PWR EXH								0.00
							0.00	AC 'C1-1' PWR EXH	15/3	12	9	B	10	12	--	---								0.00
							0.00	---	--	12	11	C	12	12	--	---								0.00
							0.00	---	--	12	13	A	14	12	15/1	EF 'C1-1'			40					0.00
							0.00	AC 'C1-2'	40/3	8	15	B	16	12	20/1	Rooftop Recept.		360						0.00
							0.00	---	--	8	17	C	18	12	20/2	HP 'C1-1'			1560					0.00
							0.00	---	--	8	19	A	20	12	--	----			1560					0.00
							0.00	AC 'C1-2' PWR EXH	15/3	12	21	B	22		20/1	SPARE								1.00
							0.00	---	--	12	23	C	24		20/1	SPARE								1.00
							0.00	---	--	12	25	A	26		20/1	SPARE								1.00
							1.00	SPARE	20/1		27	B	28			SPACE								0.00
							1.00	SPARE	20/1		29	C	30			SPACE								0.00
							1.00	SPARE	20/1		31	A	32			SPACE								0.00
							1.00	SPARE	20/1		33	B	34			SPACE								0.00
							0.00	SPACE			35	C	36			SPACE								0.00
							0.00	SPACE			37	A	38			SPACE								0.00
							0.00	SPACE			39	B	40			SPACE								0.00
							0.00	SPACE			41	C	42			SPACE								0.00
0	200	0	0	0	0	0	4.00	TOTALS								TOTALS	0	360	3160	0	0	0	0	3.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	0.6	3.2	0.0	0.0	0.0	0.0	7.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	0.6	3.2	0.0	0.0	0.0	0.0	3.5	Design KVA

Phase Load

Ph	KVA
A	1.8
B	0.4
C	1.6

Panel Remarks:
NEW PANEL

*Input div. factor per descriptions as required for calculations.
**100% of 1st 10 KVA, 50% of remaining.

	Con. KVA	Con. Amps	Des. KVA	Des. Amps
TOTAL	10.7	29.8	7.2	20.0

PANEL **MC1**

Date: 4/14/2023   By: N.OROPEZA

Job: Finley ES Modernization   Job No. 220307AR

Mounting SURFACE
Main Type MCB (100A)
Neutral 100%
Voltage: 208Y/120V-3PH 4W
Main Size: 125 AMPS
AIC Rating 10000
Ground Equipment Ground
Lugs SINGLE

PANEL: MC4

ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
		2011					0.00	AC 'C4-1'	40/3	8	1	A	2	10	30/3	AC 'C4-3'			1664					0.00
		2011					0.00	----	--	8	3	B	4	10	--	----			1664					0.00
		2011					0.00	----	--	8	5	C	6	10	--	----			1664					0.00
		555					0.00	AC 'C4-1' PWR EXH.	15/3	12	7	A	8	12	15/3	AC 'C4-3' PWR EXH.			340					0.00
		555					0.00	----	--	12	9	B	10	12	--	----			340					0.00
		555					0.00	----	--	12	11	C	12	12	--	----			340					0.00
		1664					0.00	AC 'C4-2'	30/3	10	13	A	14	12	15/1	EF 'C4-1'			200					0.00
		1664					0.00	----	--	10	15	B	16		20/1	SPARE								1.00
		1664					0.00	----	--	10	17	C	18		20/1	SPARE								1.00
		340					0.00	AC 'C4-2' PWR EXH.	15/3	12	19	A	20		20/1	SPARE								1.00
		340					0.00	----	--	12	21	B	22		20/1	SPARE								1.00
		340					0.00	----	--	12	23	C	24		20/1	SPARE								1.00
							1.00	SPARE	20/1		25	A	26			SPACE								0.00
							1.00	SPARE	20/1		27	B	28			SPACE								0.00
							1.00	SPARE	20/1		29	C	30			SPACE								0.00
							1.00	SPARE	20/1		31	A	32			SPACE								0.00
							0.00	SPACE			33	B	34			SPACE								0.00
							0.00	SPACE			35	C	36			SPACE								0.00
							0.00	SPACE			37	A	38			SPACE								0.00
							0.00	SPACE			39	B	40			SPACE								0.00
							0.00	SPACE			41	C	42			SPACE								0.00
0	0	13707	0	0	0	0	4.00	TOTALS								TOTALS	0	0	6211	0	0	0	0	5.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	0.0	19.9	0.0	0.0	0.0	0.0	9.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	0.0	19.9	0.0	0.0	0.0	0.0	4.5	Design KVA

Phase Load

Ph	KVA
A	6.8
B	6.6
C	6.6

Panel Remarks:
NEW PANEL

*Input div. factor per descriptions as required for calculations.
**100% of 1st 10 KVA, 50% of remaining.

	Con. KVA	Con. Amps	Des. KVA	Des. Amps
TOTAL	28.9	80.3	24.4	67.8

PANEL **MC4**

Date: 4/14/2023   By: N.OROPEZA

Job: Finley ES Modernization   Job No. 220307AR

Mounting SURFACE
Main Type MCB (100A)
Neutral 100%
Voltage: 208Y/120V-3PH 4W
Main Size: 125 AMPS
AIC Rating 10000
Ground Equipment Ground
Lugs SINGLE

PANEL: MC2

ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
		2011					0.00	AC 'C2-1'	40/3	8	1	A	2	12	15/1	EF 'C3-1'			40					0.00
		2011					0.00	---	--	8	3	B	4	12	20/1	Rooftop Recept.		360						0.00
		2011					0.00	---	--	8	5	C	6	12	20/2	HP 'C1-1'			1560					0.00
		555					0.00	AC 'C2-1' PWR EXH	15/3	12	7	A	8	12	--	----			1560					0.00
		555					0.00	---	--	12	9	B	10		20/1	SPARE								1.00
		555					0.00	---	--	12	11	C	12		20/1	SPARE								1.00
		2011					0.00	AC 'C2-2'	40/3	8	13	A	14		20/1	SPARE								1.00
		2011					0.00	---	--	8	15	B	16		20/1	SPARE								1.00
		2011					0.00	---	--	8	17	C	18		20/1	SPARE								1.00
		555					0.00	AC 'C2-2' PWR EXH	15/3	12	19	A	20		20/1	SPARE								1.00
		555					0.00	---	--	12	21	B	22		20/1	SPARE								1.00
		555					0.00	---	--	12	23	C	24		20/1	SPARE								1.00
		1664					0.00	AC 'C2-3'	30/3	10	25	A	26		20/1	SPARE								1.00
		1664					0.00	---	--	10	27	B	28		20/1	SPARE								1.00
		1664					0.00	---	--	10	29	C	30		20/1	SPARE								1.00
		340					0.00	AC 'C2-3' PWR EXH	15/3	12	31	A	32		20/1	SPARE								1.00
		340					0.00	---	--	12	33	B	34		20/1	SPARE								1.00
		340					0.00	---	--	12	35	C	36		20/1	SPARE								1.00
							0.00	SPACE			37	A	38			SPACE								0.00
							0.00	SPACE			39	B	40			SPACE								0.00
							0.00	SPACE			41	C	42			SPACE								0.00
0	0	21403	0	0	0	0	0.00	TOTALS								TOTALS	0	360	3160	0	0	0	0	14.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	0.4	24.6	0.0	0.0	0.0	0.0	14.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	0.4	24.6	0.0	0.0	0.0	0.0	7.0	Design KVA

Phase Load

Ph	KVA
A	8.7
B	7.5
C	8.7

Panel Remarks:
NEW PANEL

*Input div. factor per descriptions as required for calculations.
**100% of 1st 10 KVA, 50% of remaining.

	Con. KVA	Con. Amps	Des. KVA	Des. Amps
TOTAL	38.9	108.0	31.9	88.6

PANEL **MC2**

Date: 4/14/2023   By: N.OROPEZA

Job: Finley ES Modernization   Job No. 220307AR

Mounting SURFACE
Main Type MCB (100A)
Neutral 100%
Voltage: 208Y/120V-3PH 4W
Main Size: 125 AMPS
AIC Rating 10000
Ground Equipment Ground
Lugs SINGLE

PANEL: MC5

ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
		2011					0.00	AC 'C5-1'	40/3	8	1	A	2	10	30/3	AC 'C5-3'			1664					0.00
		2011					0.00	----	--	8	3	B	4	10	--	----			1664					0.00
		2011					0.00	----	--	8	5	C	6	10	--	----			1664					0.00
		555					0.00	AC 'C5-1' PWR EXH.	15/3	12	7	A	8	12	15/3	AC 'C5-3' PWR EXH.			340					0.00
		555					0.00	----	--	12	9	B	10	12	--	----			340					0.00
		555					0.00	----	--	12	11	C	12	12	--	----			340					0.00
		1664					0.00	AC 'C5-2'	30/3	10	13	A	14	12	15/1	EF 'C5-1'			200					0.00
		1664					0.00	----	--	10	15	B	16		20/1	SPARE								1.00
		1664					0.00	----	--	10	17	C	18		20/1	SPARE								1.00
		340					0.00	AC 'C5-2' PWR EXH.	15/3	12	19	A	20		20/1	SPARE								1.00
		340					0.00	----	--	12	21	B	22		20/1	SPARE								1.00
		340					0.00	----	--	12	23	C	24		20/1	SPARE								1.00
							1.00	SPARE	20/1		25	A	26			SPACE								0.00
							1.00	SPARE	20/1		27	B	28			SPACE								0.00
							1.00	SPARE	20/1		29	C	30			SPACE								0.00
							1.00	SPARE	20/1		31	A	32			SPACE								0.00
							0.00	SPACE			33	B	34			SPACE								0.00
							0.00	SPACE			35	C	36			SPACE								0.00
							0.00	SPACE			37	A	38			SPACE								0.00
							0.00	SPACE			39	B	40			SPACE								0.00
							0.00	SPACE			41	C	42			SPACE								0.00
0	0	13707	0	0	0	0	4.00	TOTALS								TOTALS	0	0	6211	0	0	0	0	5.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	0.0	19.9	0.0	0.0	0.0	0.0	9.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	0.0	19.9	0.0	0.0	0.0	0.0	4.5	Design KVA

Phase Load

Ph	KVA
A	6.8
B	6.6
C	6.6

Panel Remarks:
NEW PANEL

*Input div. factor per descriptions as required for calculations.
**100% of 1st 10 KVA, 50% of remaining.

	Con. KVA	Con. Amps	Des. KVA	Des. Amps
TOTAL	28.9	80.3	24.4	67.8

PANEL **MC5**

Date: 4/14/2023   By: N.OROPEZA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121814 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/11/2023

ARCHITECT — PBK Architects, Inc.
COSTA MESA
600 Anton Boulevard, Suite 1375
Costa Mesa, CA 92626
P 949-548-5000

CONSULTANT — LEAF Engineers
8163 Rochester Avenue, Suite 100
Rancho Cucamonga, CA 91730
909.987-0909
leafengineers.com

FINLEY ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
13521 Edwards St.
Westminster, CA 92683

DSA SUBMITTAL
DSA APPL NO.: 04-121814   DSA FILE NO.: 30-43

KEY PLAN

NORTH: PLAN TRUE

Consultant

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
12-28-2022	220307

REVISIONS

No.	Description	Date

DSA SUBMITTAL

ELECTRICAL SCHEDULES

E5.02

Job:Finley ES Modernization | Job No.:220307AR

Mounting:**SURFACE** | Main Type:**MCB (100A)** | Neutral:**100%** | Voltage:**208Y/120V-3PH 4W** | Main Size:**125 AMPS** | AIC Rating:**10000** | Ground:**Equipment Ground** | Lugs:**SINGLE**

PANEL: **MC6**

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
		1664					0.00	AC 'C6-1'	30/3	10	1	A	2	10	30/3	AC 'C6-3'			1664					0.00
		1664					0.00	----	--	10	3	B	4	10	--	----			1664					0.00
		1664					0.00	----	--	10	5	C	6	10	--	----			1664					0.00
		610					0.00	AC 'C6-1' PWR EXH.	15/3	12	7	A	8	12	15/3	AC 'C6-3' PWR EXH.			610					0.00
		610					0.00	----	--	12	9	B	10	12	--	----			610					0.00
		610					0.00	----	--	12	11	C	12	12	--	----			610					0.00
		1664					0.00	AC 'C6-2'	30/3	10	13	A	14	10	30/3	AC 'C6-4'			1664					0.00
		1664					0.00	----	--	10	15	B	16	10	--	----			1664					0.00
		1664					0.00	----	--	10	17	C	18	10	--	----			1664					0.00
		610					0.00	AC 'C6-2' PWR EXH.	15/3	12	19	A	20	12	15/3	AC 'C6-4' PWR EXH.			610					0.00
		610					0.00	----	--	12	21	B	22	12	--	----			610					0.00
		610					0.00	----	--	12	23	C	24	12	--	----			610					0.00
	360						0.00	Rooftop Recept.	20/1	12	25	A	26		20/1	SPARE								1.00
							1.00	SPARE	20/1		27	B	28		20/1	SPARE								1.00
							1.00	SPARE	20/1		29	C	30		20/1	SPARE								1.00
							1.00	SPARE	20/1		31	A	32		20/1	SPARE								1.00
							1.00	SPARE	20/1		33	B	34		20/1	SPARE								1.00
							0.00	SPACE			35	C	36			SPACE								0.00
							0.00	SPACE			37	A	38			SPACE								0.00
							0.00	SPACE			39	B	40			SPACE								0.00
							0.00	SPACE			41	C	42			SPACE								0.00
0	360	13645	0	0	0	0	4.00	**TOTALS**								**TOTALS:**	0	0	13645	0	0	0	0	5.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	0.4	27.3	0.0	0.0	0.0	0.0	9.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	0.4	27.3	0.0	0.0	0.0	0.0	4.5	Design KVA

Phase Load

Ph	KVA
A	9.5
B	9.1
C	9.1

Panel Remarks: *NEW PANEL*

*Input div. factor per descriptions as required for calculations.
**100% of 1st 10 KVA, 50% of remaining.

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	36.6	101.7		32.1	89.2

PANEL: **MC6**

Date: 4/14/2023 | By: N.OROPEZA

Job:Finley ES Modernization | Job No.:220307AR

Mounting:**SURFACE** | Main Type:**MCB (100A)** | Neutral:**100%** | Voltage:**208Y/120V-3PH 4W** | Main Size:**125 AMPS** | AIC Rating:**10000** | Ground:**Equipment Ground** | Lugs:**SINGLE**

PANEL: **MCK**

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
		40					0.00	EF 'CK-1'	15/1	12	1	A	2	8	40/3	AC 'CK-1'			2011					0.00
		40					0.00	EF 'CK-2'	15/1	12	3	B	4	8	--	---			2011					0.00
		40					0.00	EF 'CK-3'	15/1	12	5	C	6	8	--	---			2011					0.00
	360						0.00	Rooftop Recpt.	20/1	12	7	A	8	12	15/3	AC 'CK-1' PWR EXH			555					0.00
							1.00	SPARE	20/1		9	B	10	12	--	---			555					0.00
							1.00	SPARE	20/1		11	C	12	12	--	---			555					0.00
							1.00	SPARE	20/1		13	A	14	8	40/3	AC 'CK-2'			2011					0.00
							1.00	SPARE	20/1		15	B	16	8	--	---			2011					0.00
							1.00	SPARE	20/1		17	C	18	8	--	---			2011					0.00
							1.00	SPARE	20/1		19	A	20	12	15/3	AC 'CK-2' PWR EXH			555					0.00
							0.00	SPACE			21	B	22	12	--	---			555					0.00
							0.00	SPACE			23	C	24	12	--	---			555					0.00
							0.00	SPACE			25	A	26	8	30/3	AC 'CK-3'			1664					0.00
							0.00	SPACE			27	B	28	8	--	---			1664					0.00
							0.00	SPACE			29	C	30	8	--	---			1664					0.00
							0.00	SPACE			31	A	32	12	15/3	AC 'CK-3' PWR EXH			340					0.00
							0.00	SPACE			33	B	34	12	--	---			340					0.00
							0.00	SPACE			35	C	36	12	--	---			340					0.00
							0.00	SPACE			37	A	38			SPACE								0.00
							0.00	SPACE			39	B	40			SPACE								0.00
							0.00	SPACE			41	C	42			SPACE								0.00
0	360	120	0	0	0	0	6.00	**TOTALS**								**TOTALS:**	0	0	21403	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	0.4	21.5	0.0	0.0	0.0	0.0	6.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	0.4	21.5	0.0	0.0	0.0	0.0	3.0	Design KVA

Phase Load

Ph	KVA
A	7.5
B	7.2
C	7.2

Panel Remarks: *NEW PANEL*

*Input div. factor per descriptions as required for calculations.
**100% of 1st 10 KVA, 50% of remaining.

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	27.9	77.4		24.9	69.1

PANEL: **MCK**

Date: 4/14/2023 | By: N.OROPEZA

TYPE	DESCRIPTION	VOLTAGE	MOUNTING	MANUFACTURER & NO.	REMARKS
FX-A	2X4 TROFFER	MVOLT	RECESSED	LITHONIA LIGHTING EPANL 2X4 4000LM 80CRI 35K MIN1 MVOLT	
FX-AE	2X4 TROFFER - EMERG.	MVOLT	RECESSED	LITHONIA LIGHTING EPANL 2X4 4000LM 80CRI 35K MIN1 MVOLT E10WCP	PROVIDE 90 MIN. EMERGENCY BATTERY BACKUP 'E10WCP'
FX-B	1X4 TROFFER	MVOLT	RECESSED	LITHONIA LIGHTING EPANL 1X4 4000LM 80CRI 35K MIN1 MVOLT	
FX-BE	1X4 TROFFER - EMERG.	MVOLT	RECESSED	LITHONIA LIGHTING EPANL 1X4 4000LM 80CRI 35K MIN1 MVOLT E10WCP	PROVIDE 90 MIN. EMERGENCY BATTERY BACKUP 'E10WCP'
FX-C	2X4 TROFFER	MVOLT	SURFACE	LITHONIA LIGHTING EPANL 2X4 4000LM 80CRI 35K MIN1 MVOLT	PROVIDE SURFACE MOUNT KIT 'SMKSH'.
FX-D	5" DOWNLIGHT	MVOLT	SURFACE	JUNO LIGHTING J5F 5IN 07LM 35K 90CRI 120 FRPC WH E10WLCP	PROVIDE EMERGENCY BATTERY BACKUP 'E10WLCP'
FX-E	1X4 TROFFER	MVOLT	SURFACE	LITHONIA LIGHTING EPANL 1X4 4000LM 80CRI 35K MIN1 MVOLT	PROVIDE SURFACE MOUNT KIT 'SMKSH'.
FX-EE	1X4 TROFFER	MVOLT	SURFACE	LITHONIA LIGHTING EPANL 1X4 4000LM 80CRI 35K MIN1 MVOLT E10WCP	PROVIDE 90 MIN. EMERGENCY BATTERY BACKUP 'E10WCP'
FX-EX	EMERGENCY EXIT	MVOLT	SURFACE	LITHONIA LIGHTING LE S 1 R EL N SD - WITH MOUNTING KIT 'ELA WG1'	COORDINATE WITH MANUFACTURER AND ARCHITECT PRIOR TO PROCUREMENT.

3 LIGHT FIXTURE SCHEDULE
NOT TO SCALE

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121814 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/11/2023

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FINLEY ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
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DSA SUBMITTAL

DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43

KEY PLAN
NORTH: PLAN TRUE

Consultant

REGISTERED PROFESSIONAL ENGINEER
RONALD C DE LA CRUZ
No. E 23578
Exp. 09-30-2023
ELECTRICAL
STATE OF CALIFORNIA

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
12-28-2022	220307

REVISIONS

No.	Description	Date

DSA SUBMITTAL

ELECTRICAL SCHEDULES

E5.03

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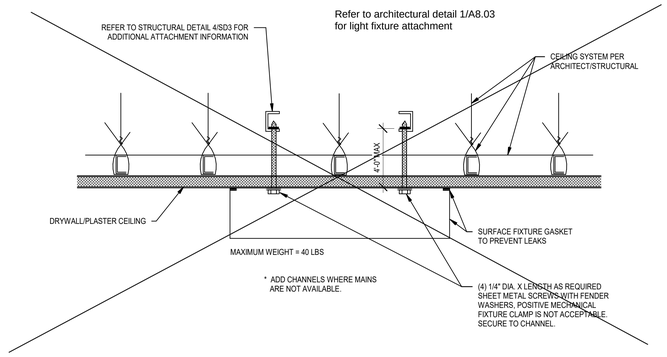
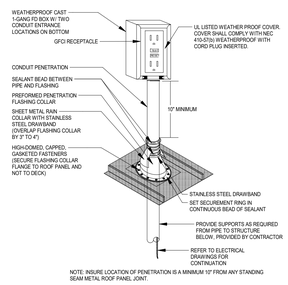


10 SURFACE MOUNTED FIXTURE DETAIL
NOT TO SCALE

VOID

4 EXTERIOR JUNCTION BOX
NOT TO SCALE

7 TYPICAL PIPE TRENCH/FOOTING DETAIL
NOT TO SCALE



2 CONDUIT ROOF PENETRATION DETAIL (RECEPTACLE)
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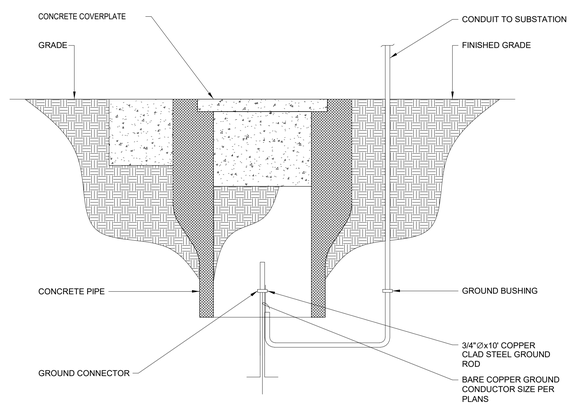

5 GROUND ROD DETAIL
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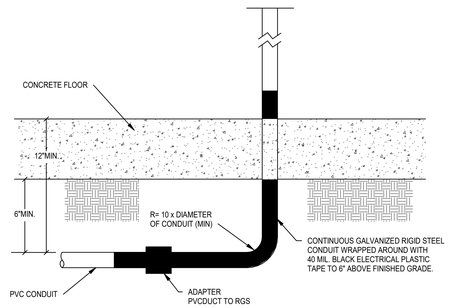

1 CONDUIT RISER DETAIL
NOT TO SCALE

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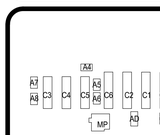
DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43



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STATE OF CALIFORNIA

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
12-28-2022	220307

REVISIONS

No.	Description	Date

DSA SUBMITTAL

ELECTRICAL DETAILS

E6.01

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PLUMBING LEGEND

NOTE: NOT ALL SYMBOLS TABULATED BELOW ARE NECESSARILY USED ON THE DRAWINGS.

SYMBOL	ITEM	ABBR.
S / 1	FIXTURE DESIGNATION UNIT ABBREVIATION NUMBER	
01 / P-1	DETAIL DESIGNATION DETAIL NUMBER SHEET NO. WHERE SHOWN	
	DOMESTIC COLD WATER	CW
	DOMESTIC HOT WATER	HW
	DOMESTIC HW RETURN	HWR
	EXISTING PIPING	
X	POINT OF CONNECTION	POC
C	CONDENSATE DRAIN	
SOV	SHUT-OFF VALVE IN BOX	SOV
	PIPING RISE	
	PIPING DROP	
S / W	SOIL OR WASTE	S OR W
V	VENT	V
	VENT THRU ROOF	VTR
FCO	FLOOR CLEANOUT	FCO
COTG	CLEANOUT TO GRADE	COTG
	WALL CLEANOUT	WCO
	HOSE BIBB	HB
RD	ROOF DRAIN	RD
OD	OVERFLOW DRAIN	OD
	DOWN SPOUT	DS
	UNDERGROUND	UG
TP	TRAP PRIMER	TP
SD	STORM DRAIN	SD
(E)	EXISTING	EXIST.
(N)	NEW	NEW
	UNDERFLOOR	UF
	OVERHEAD	OH
R	RELIEF	
D	DRAIN	
	CONDENSATE DRAIN CLEAN OUT	CO
SC	SECONDARY CONDENSATE DRAIN	
FC	FURNACE CONDENSATE	
	GAS SHUT OFF VALVE	GSOV
	CONDENSATE DRAIN TRAP	CDT
LPG	LIQUIFIED PETROLEUM GAS	LPG
G	NATURAL GAS	G
	FIRE SPRINKLER RISER	FSR
FSL	FIRE SPRINKLER LINE	FSL
	FIRE DEPARTMENT CONNECTION	FDC
	FINISHED FLOOR	FF
	FLOW LINE	FL
▲	FIRE RATED PENETRATION	
	POINT OF DISCONNECTION	POD
	POINT OF CONNECTION	POC

CALIFORNIA GREEN BUILDING STANDARDS

THE FOLLOWING SHALL BE REQUIRED WHETHER OR NOT SPECIFICALLY SHOWN OR MENTIONED IN DRAWINGS AND/OR SPECIFICATIONS:

5.303.1 METERS: SEPARATE SUBMETERS OR METERING DEVICES SHALL BE INSTALLED FOR USES DESCRIBED IN SECTIONS
5.303.1.1 AND 5.303.1.2.

5.303.1.1 NEW BUILDINGS OR ADDITIONS IN EXCESS OF 50,000 SQUARE FEET:
1. FOR EACH INDIVIDUAL LEASED, RENTED, OR OTHER TENANT SPACE WITHIN THE BUILDING PROJECTEED TO CONSUME MORE THAN 100 GALLONS PER DAY, INCLUDING, BUT NOT LIMITED TO, SPACES USED FOR LAUNDRY OR CLEANERS, RESTAURANT OR FOOD SERVICE, MEDICAL OR DENTAL OFFICE, LABORATORY, OR BEAUTY SALON OR BARBER SHOP.
2. WHERE SEPARATE SUBMETERS FOR INDIVIDUAL BUILDING TENANTS ARE UNFEASIBLE, FOR WATER SUPPLIED TO THE FOLLOWING SUBSYSTEMS:
   a. MAKE-UP WATER FOR COOLING TOWERS WHERE FLOW THROUGH IS GREATER THAN 500 GPM.
   b. MAKE-UP WATER FOR EVAPORATIVE COOLERS GREATER THAN 6 GPM.
   c. STEAM AND HOT-WATER BOILERS WITH ENERGY INPUT MORE THAN 500,000 BTUH/H.

5.303.1.2 EXCESS CONSUMPTION: A SEPARATE SUBMETER OR BE PROVIDED FOR ANY TENANT WITHIN A NEW BUILDING OR WITHIN AN ADDITION THAT IS PROJECTED TO CONSUME MORE THAN 1,000 GAL/DAY.

5.303.2 RESERVED

5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS: PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL COMPLY WITH THE FOLLOWING:

5.303.3.1 WATER CLOSETS: THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSETS SHALL NOT EXCEED 1.28 GALLONS PER FLUSH. TANK-TYPE WATER CLOSETS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR TANK-TYPE TOILETS. NOTE: THE EFFECTIVE FLUSH VOLUME OF DUAL FLUSH TOILETS IS DEFINED AS THE COMPOSITE, AVERAGE FLUSH VOLUME OF TWO REDUCED FLUSHES AND ONE FULL FLUSH.

5.303.3.2 URINALS:

5.303.3.2.1 WALL-MOUNTED URINALS: THE EFFECTIVE FLUSH VOLUME OF WALL-MOUNTED URINALS SHALL NOT EXCEED 0.125 GALLONS PER FLUSH.

5.303.3.2.2 FLOOR-MOUNTED URINALS: THE EFFECTIVE FLUSH VOLUME OF FLOOR-MOUNTED URINALS SHALL NOT EXCEED 0.5 GALLONS PER FLUSH.

5.303.3.2.1 WALL-MOUNTED URINALS: THE EFFECTIVE FLUSH VOLUME OF WALL-MOUNTED URINALS SHALL NOT EXCEED 0.125 GALLONS PER FLUSH.

5.303.3.2.2 FLOOR-MOUNTED URINALS: THE EFFECTIVE FLUSH VOLUME OF FLOOR-MOUNTED URINALS SHALL NOT EXCEED 0.5 GALLONS PER FLUSH.

5.303.3.3 SHOWERHEADS:

5.303.3.3.1 SINGLE SHOWERHEAD: SHOWERHEADS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 2.0 GALLONS PER MINUTE AT 80 PSI. SHOWERHEADS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR SHOWERHEADS.

5.303.3.3.2 MULTIPLE SHOWERHEADS SERVING ONE SHOWER: WHEN A SHOWER IS SERVED BY MORE THAN ONE SHOWERHEAD, THE COMBINED FLOW RATE OF ALL SHOWERHEADS AND/OR SHOWER OUTLETS CONTROLLED BY A SINGLE VALVE SHALL NOT EXCEED 2.0 GALLONS PER MINUTE AT 80 PSI, OR THE SHOWER SHALL BE DESIGNED TO ALLOW ONLY ONE SHOWER OUTLET TO BE IN OPERATION AT A TIME. NOTE: A HAND-HELD SHOWER SHALL BE CONSIDERED A SHOWERHEAD.

5.303.3.4 FAUCETS AND FOUNTAINS:

5.303.3.4.1 NONRESIDENTIAL LAVATORY FAUCETS: LAVATORY FAUCETS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 0.5 GALLONS PER MINUTE AT 60 PSI.

5.303.3.4.2 KITCHEN FAUCETS: KITCHEN FAUCETS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GALLONS PER MINUTE AT 60 PSI. KITCHEN FAUCETS MAY TEMPORARILY INCREASE FLOW ABOVE THE MAXIMUM RATE, BUT NOT TO EXCEED 2.2 GALLONS PER MINUTE AT 60 PSI, AND MUST DEFAULT TO A MAXIMUM FLOW RATE OF 1.8 GALLONS PER MINUTE AT 60 PSI.

5.303.3.4.3 WASH FOUNTAINS: WASH FOUNTAINS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GALLONS PER MINUTE/20 [RIM SPACE (INCHES) AT 60 PSI].

5.303.3.4.4 METERING FAUCETS: METERING FAUCETS SHALL NOT DELIVER MORE THAN 0.20 GALLONS PER CYCLE.

5.303.3.4.5 METERING FAUCETS FOR WASH FOUNTAINS: METERING FAUCETS FOR WASH FOUNTAINS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 0.20 GALLONS PER CYCLE/20 [RIM SPACE (INCHES) AT 60 PSI]. NOTE: WHERE COMPLYING FAUCETS ARE UNAVAILABLE, AERATORS OR OTHER MEANS MAY BE USED TO ACHIEVE REDUCTION.

PLUMBING TESTING

1. ALL EQUIPMENT AND/OR SYSTEMS NOTED ON THE DRAWINGS "TO REMAIN" SHALL BE INSPECTED AND TESTED ON SITE TO CERTIFY WORKING CONDITION. A WRITTEN REPORT ON THE CONDITION OF ALL EQUIPMENT TO REMAIN, INCLUDING A COPY OF THE TEST RESULTS AND RECOMMENDED REMEDIAL ACTIONS AND COSTS SHALL BE MADE BY THIS CONTRACTOR TO THE ARCHITECT/ENGINEER FOR REVIEW.

2. PIPE COVER AND BACKFILLING:
   A. AFTER HYDROSTATIC TEST, EVENLY BACKFILL ENTIRE TRENCH WIDTH BY HAND PLACING BACKFILL MATERIAL AND HAND TAMPING IN FOUR (4) ICHES COMPACTED LAYERS TO 12 INCHES MINIMUM COVER OVER TOP OF JACKET. COMPACT TO 95 PERCENT MAXIMUM DENSITY.
   B. EVENLY AND CONTINUOUSLY BACKFILL REMAINING TRENCH DEPTH IN
   C. UNIFORM LAYERS WITH BACKFILL MATERIAL
   D. DO NOT USE WHEELED OR TRACKED VEHICLES FOR TAMPING.

3. PRESSURE TEST ALL DOMESTIC WATER PIPING. AFTER INSTALLATION AND PRIOR TO BACKFILL OR COVER-UP, RINSE PIPING SYSTEM OF PARTICULATE CONTAMINANTS, CAP AND SUBJECT TO STATIC WATER PRESSURE OF 125 PSIG FOR FOUR (4) HOURS. REPAIR LEAKS AND DEFECTS AND RE-TEST ANY PORTION OF PIPING SYSTEM THAT FAILS. PROVIDE WRITTEN TEST REPORT INCLUDING DATE AND TIME OF TEST, PASS OR FAIL INDICATION, SUMMARY OF REMEDIAL WORK REQUIRED AND DATE AND TIME OF EACH RE-TEST.

4. PRIOR TO COVER UP, WATER PIPE, SANITARY PIPE, AND GAS PIPING SHALL BE PRESSURE TESTED. TESTS SHALL BE WITNESSED BY CONSULTANT AND OWNER. NOTIFY OWNER 48 HOURS PRIOR TO TEST. TEST SHALL BEWITNESSED BY CLIENT PLUMBING TECHNICIAN.

5. UPON COMPLETION OF THE SANITARY PIPING SYSTEM, THE CONTRACTOR SHALL NOTIFY ENGINEER AND OWNER TO OBSERVE A SMOKE TEST OF THE SYSTEM. SMOKE TESTING SHALL BE PERFORMED ON SANITARY PIPING SYSTEM TWICE DURING CONSTRUCTION.

6. PRESSURE TEST NATURAL GAS PIPING IN ACCORDANCE WITH NFPA 54. CA PLUMBING CODE SECTION 1213

GENERAL PLUMBING NOTES

1. ALL BRACING OF PIPING SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA GUIDELINES, HAZARD LEVEL 'A'.
2. WHERE BRACING DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT, MECHANICAL ENGINEER AND FIELD INSPECTOR.
3. SUPPORT AND BRACING OF ALL PIPING SHALL BE IN ACCORDANCE WITH THE SMACNA "GUIDELINES FOR SEISMIC RESTRAINTS OF PLUMBING PIPING SYSTEMS", OR THE "SUPERSTRUT SEISMIC RESTRAINT SYSTEM" FOR PIPING ONLY.
4. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PROCEEDING WITH INSTALLATION. CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER OF ANY EXISTING CONDITIONS WHICH CONFLICT WITH INFORMATION PROVIDED IN CONSTRUCTION DOCUMENTS.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL PIPE ROUTING WITH WORK OF OTHER TRADES AND MAKE ANY OFFSETS AS REQUIRED TO AVOID CONFLICT WITH DUCTWORK, LIGHT FIXTURES, SKYLIGHTS, ETC.
6. PLUMBING CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR ALL CONDENSATE DRAIN CONNECTIONS TO MECHANICAL EQUIPMENT.
7. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING PLUMBING CONDITIONS PRIOR TO PROCEEDING WITH INSTALLATION. CONTRACTOR SHALL NOTIFY ARCHITECT/ ENGINEER OF ANY EXISTING CONDITIONS WHICH CONFLICT WITH INFORMATION PROVIDED IN CONSTRUCTION DOCUMENTS.
8. FOR PLUMBING FIXTURE MOUNTING HEIGHTS AND LOCATIONS, REFER TO THE ARCHITECTURAL DRAWINGS.
9. ALL PLUMBING CONVEYING OR DISPENSING WATER FOR HUMAN CONSUMPTION SHALL COMPLY WITH AB 1953 FOR LEAD CONTENT.
10. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. DO NOT SCALE FROM PLUMBING DRAWINGS.
11. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.
12. PROVIDE A DOUBLE EXTERIOR CLEAN-OUT (DFCO) ON ALL SANITARY LINES EXITING THE BUILDING.
13. ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH A TRAP PRIMER.
14. FIXTURES DESIGNATED AS ADA ACCESSIBLE BY ARCHITECT SHALL BE INSTALLED AT ADA ACCESSIBLE HEIGHT PER ARCHITECTURAL DETAILS.
15. ALL DOMESTIC COLD AND HOT WATER TAKE-OFFS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.
16. CONTRACTOR SHALL DEWATER ANY AREA AT OR BELOW GRADE PRIOR TO SETTING EQUIPMENT.
17. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED TO PREVENT FREEZING.
18. ALL WORK AND MATERIAL SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH THE FOLLOWING CODES AS ADOPTED BY THE INSPECTION AUTHORITY. NOTHING IN THESE PLANS IS TO BE CONSTUED TO PERMIT WORK NOT CONFORMING TO THESE CODES OR OTHER APPLICABLE PROJECT SPECIFICATIONS:

LIST OF APPLICABLE CODES
2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
2022 CALIFORNIA GREEN BUILDING STANDARD CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCE STANDARDS CODE (CBC), PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

APPLICABLE STANDARDS
FOR A LIST OF APPLICABLE STANDARDS, INCLUDING CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS, REFER TO CBC CHAPTER 35 AND CFC CHAPTER 80.

19. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE FACILITY, UTILITIES AND APPURTENANCE CAUSED BY THE WORK IN THEIR SCOPE. CONTRACTOR SHALL RESTORE AND REPAIR ANY DAMAGE AT NO ADDITIONAL COST TO THE OWNERS BY INSTALLATION THE FACILITY OF NEW WORK.
20. UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBERS SHALL BE CUT, DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DISTRICT STRUCTURAL ENGINEER FROM THE DIVISION OF THE STATE ARCHITECT.

MEP COMPONENT ANCHORAGE NOTES:

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRIC, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

1. 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.
2. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUND PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.8, 13.6.7, 13.6.8, AND 2019 CBC, SECTION 1617A.1.24, 1617A.1.25, AND 1617A.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 PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO START OF AND DURING THE HANGING AND BRACING OF DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☒ E☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES & DETAILS.

MP☐ MD☐ PP☐ E☐ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) # _____.

DRAWING INDEX

ABBREVIATIONS

NOTE: 1. ALL ABBREVIATIONS MAY NOT BE USED ON THESE DRAWINGS.

AAP	AREA ALARM PANEL	MH	MANHOLE
AAV	AUTOMATIC AIR VENT	MS	MOP SINK
A.F.F.	ABOVE FINISHED FLOOR	N.C.	NORMALLY CLOSED
AP	ACCESS PANEL	NIC	NOT IN CONTRACT
B.F.F.	BELOW FINISHED FLOOR	N.O.	NORMALLY OPEN
BFP	BACKFLOW PREVENTER	O.F./C.I.	OWNER FURNISHED/CONTRACTOR INSTALLED
BOB	BOTTOM OF BEAM	O.F./O.I.	OWNER FURNISHED/OWNER INSTALLED
BOP	BOTTOM OF PIPE	OFD	OVERFLOW DRAIN
BTUH	BRITISH THERMAL UNITS PER HOUR	PH	PHASE
CA	COMPRESSED AIR	PIV	POST INDICATOR VALVE
C/C	CUT AND CAP	PRV	PRESSURE REDUCING VALVE
CFH	CUBIC FEET PER HOUR	RD	ROOF DRAIN
CFS	CUBIC FEET PER SECOND	RE:	REFER TO
CI	CAST IRON	R.I.C.	ROUGH-IN AND CONNECT
CLG	CEILING	RO	REVERSE OSMOSIS
CO	CLEANOUT	RPBFP	REDUCED PRESSURE BACKFLOW PREVENTER
CONN	CONNECTION	RPM	REVOLUTIONS PER MINUTE
CONT.	CONTINUATION	RVB	REFRIGERATOR VALVE BOX
DF	DRINKING FOUNTAIN	SD	STORM DRAIN
DPV	DRY PIPE VALVE	S.F.	SQUARE FEET
DWG.	DRAWING	SIA.	SIAMESE
EA	EACH	SK	SINK
EL.	ELEVATION	T.O.P.	TOP OF PIPE
EDF	ELECTRIC DRINKING FOUNTAIN	TP	TRAP PRIMER
FCO	FLOOR CLEANOUT	TYP	TYPICAL
FD	FLOOR DRAIN	U	URINAL
FDV	FIRE DEPARTMENT VALVE	U/F	UNDERFLOOR
F.F.	FINISHED FLOOR	U/S	UNDERSLAB
FHC	FIRE HOSE CABINET	VAC. BRKR.	VACUUM BREAKER
F.L.	FLOW LINE	VIF	VERIFY IN FIELD
FS	FLOOR SINK	VTR	VENT THRU ROOF
FT	FEET	WC	WATER CLOSET
FU	FIXTURE UNITS	WCO	WALL CLEANOUT
GC	GENERAL CONTRACTOR	WH	WALL HYDRANT
GPH	GALLONS PER HOUR	WMB	WASHING MACHINE BOX
GPM	GALLONS PER MINUTE	YH	YARD HYDRANT
HB	HOSE BIBB	ZV	ZONE VALVE
HP	HORSEPOWER	(A)	ITEM NOTED TO BE ABANDONED
I.E.	INVERT ELEVATION	(D)	ITEM NOTED TO BE DEMOLISHED
KW	KILOWATTS	(E)	EXISTING ITEM
LAV	LAVATORY	(N)	NEW ITEM
MAP	MASTER ALARM PANEL	(R)	ZFITEM NOTED TO RELOCATED
MECH	MECHANICAL		

IDENTIFICATION STAMP
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REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/11/2023

PBK

ARCHITECT PBK Architects, Inc.
COSTA MESA PBK.com
600 Anton Boulevard, Suite 1375
Costa Mesa, CA 92626
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CONSULTANT LEAF Engineers
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8163 Rochester Avenue, Suite 100
Rancho Cucamonga, CA 91730
909.987-0909
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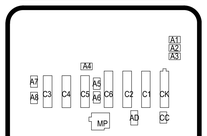
FINLEY ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
13521 Edwards St.
Westminster, CA 92683

DSA SUBMITTAL

DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43



KEY PLAN NORTH: PLAN TRUE

Consultant

REGISTERED PROFESSIONAL ENGINEER
REA DAVID WANG
No.M36155
Exp.09-30-2024
STATE OF CALIFORNIA

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
12-28-2022	220307

REVISIONS

No.	Description	Date

DSA SUBMITTAL

PLUMBING SYMBOLS, LEGENDS & GENERAL NOTES

P0.00

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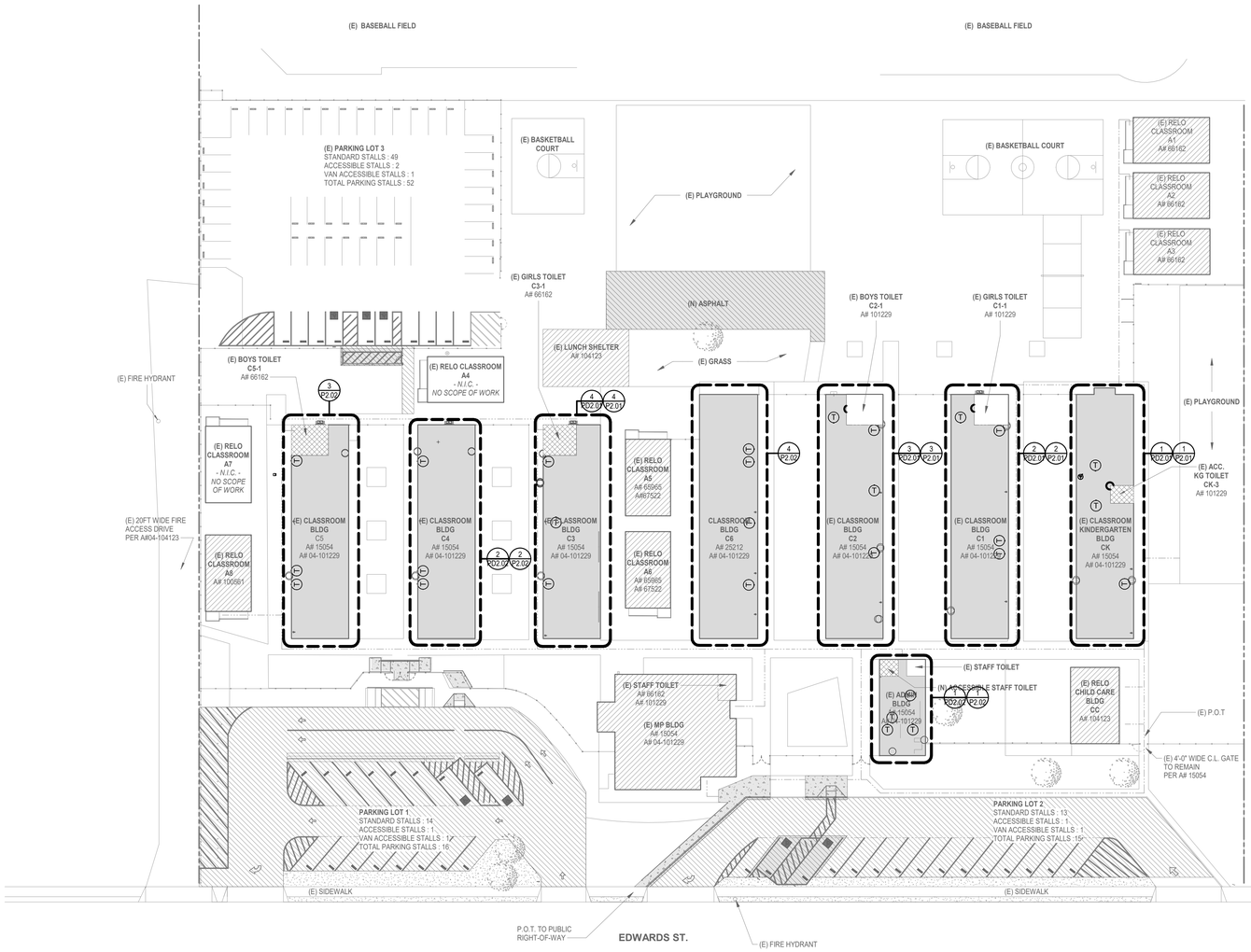
P1.01 - PLUMBING SITE PLAN

0" 1"



1 PLUMBING SITE PLAN
1" = 30'-0"

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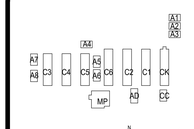

KEY PLAN NORTH: PLAN TRUE

Consultant

REGISTERED PROFESSIONAL ENGINEER
REX DAVID WANG
No.M36155
Exp.09-30-2024
CIVIL
STATE OF CALIFORNIA

Architect

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WESTMINSTER SCHOOL DISTRICT

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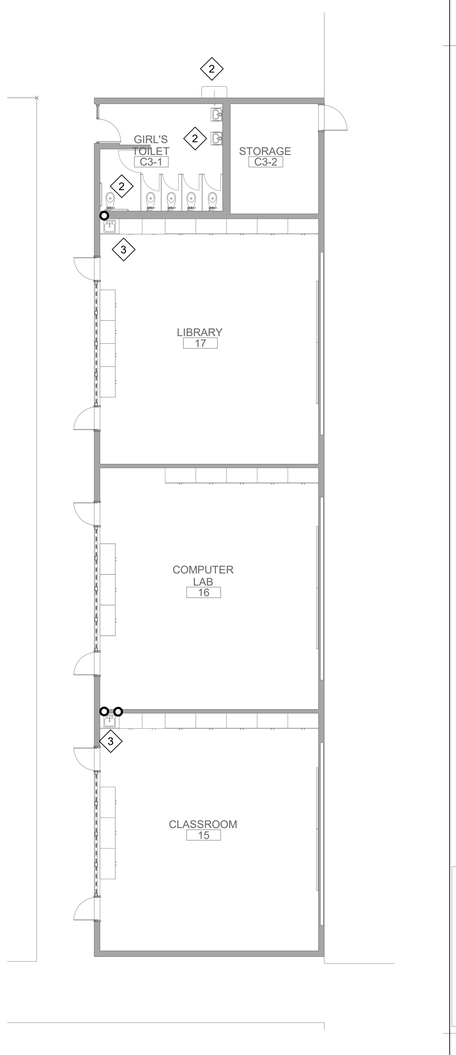
PLUMBING SITE PLAN

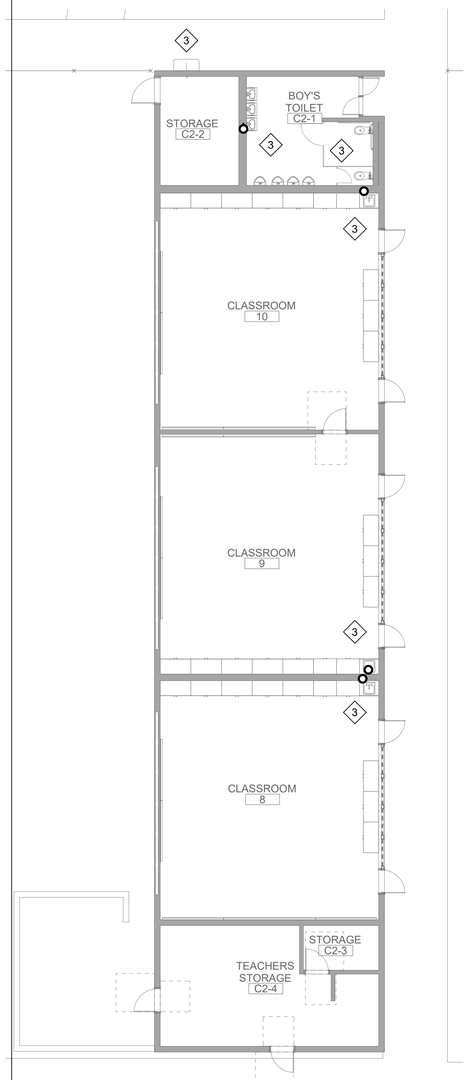
P1.01

PD2.01 - PLUMBING DEMOLITION FLOOR PLANS

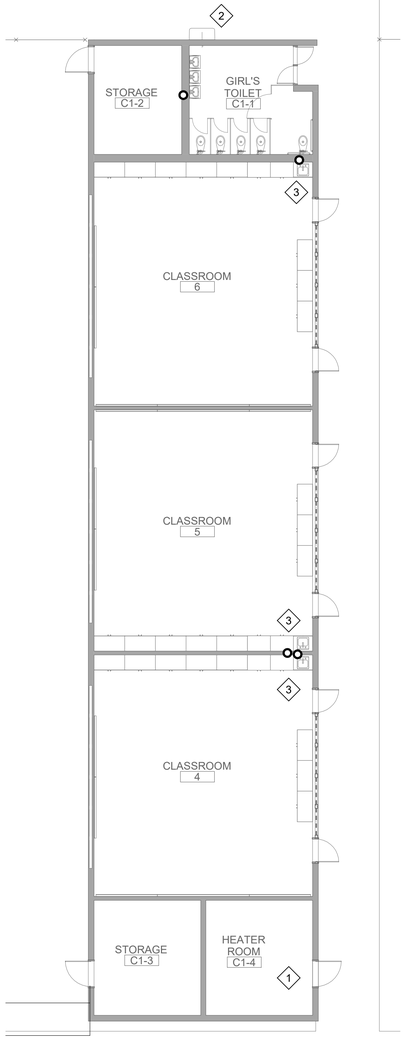
0" 1"



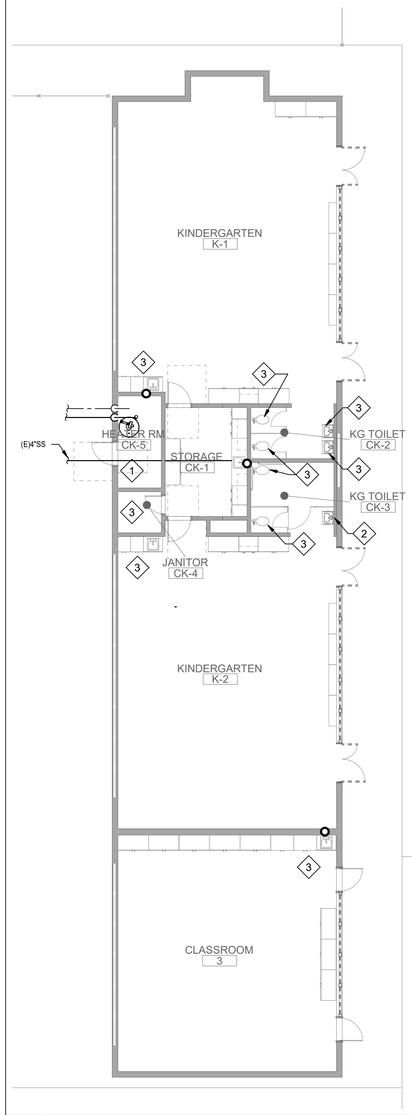
4 FLOOR PLAN - BUILDING C3 - DEMO
1/8" = 1'-0"



3 FLOOR PLAN - BUILDING C2 - DEMO
1/8" = 1'-0"



2 FLOOR PLAN - BUILDING C1 - DEMO
1/8" = 1'-0"



1 FLOOR PLAN - BUILDING CK - DEMO
1/8" = 1'-0"

DEMO KEY NOTES

1. MECHANICAL EQUIPMENT TO BE DEMOLISHED. REFER TO HVAC PLANS.
2. EXISTING PLUMBING FIXTURE TO BE REMOVED AND REPLACED. CAP SEWER, VENT AND WATER LINE TEMPORARILY FOR NEW REPLACEMENT. MODIFY AND EXTEND PIPING AS REQUIRED.
3. EXISTING PLUMBING FIXTURE TO REMAIN

CONSTRUCTION NOTES

1. FOR CONTINUATION OF ALL UTILITIES SEE BUILDING AS-BUILTS
2. BEFORE COMMENCEMENT OF WORK , THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, ELEVATIONS AND CHARACTERISTICS OF ALL UTILITIES AND PIPING BY PHYSICAL EXCAVATION AND SHALL IMMEDIATLEY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES
3. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES AND POINTS OF CONNECTIONS PRIOR TO BIDDING THE PROJECT.
4. WHERE PLANS INDICATE NEW FIXTURES OR EQUIPMENT CONNECTING TO EXISTING SERVICES, PLUMBING CONTRACTOR SHALL MODIFY AND OR EXTEND EXISTING PIPING OR ROUGH INS AS REQUIRED TO SUIT THE NEW FIXTURE.

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DSA SUBMITTAL

DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43

KEY PLAN
NORTH: PLAN TRUE

Consultant

REGISTERED PROFESSIONAL ENGINEER
REX DAVID WANG
No.M36155
Exp.09-30-2024
STATE OF CALIFORNIA

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT

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PLUMBING DEMOLITION FLOOR PLANS

PD2.01

FILE PATH: Z:\Projects\...
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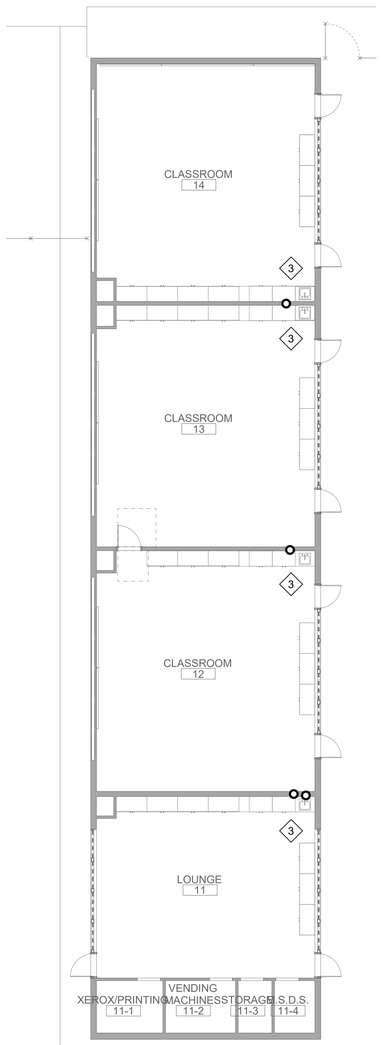
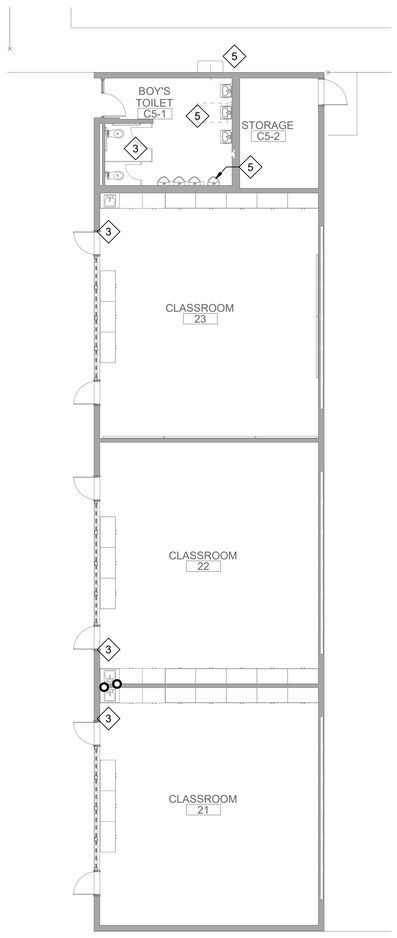
0" 1"

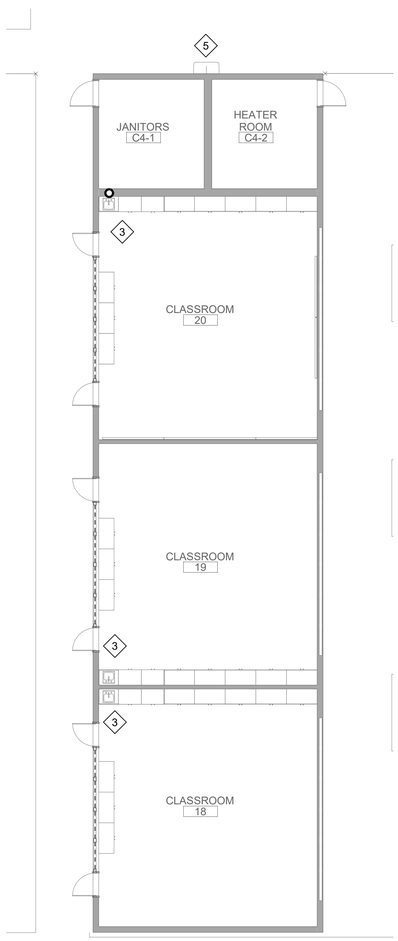
PD2.02 - PLUMBING DEMOLITION FLOOR PLANS



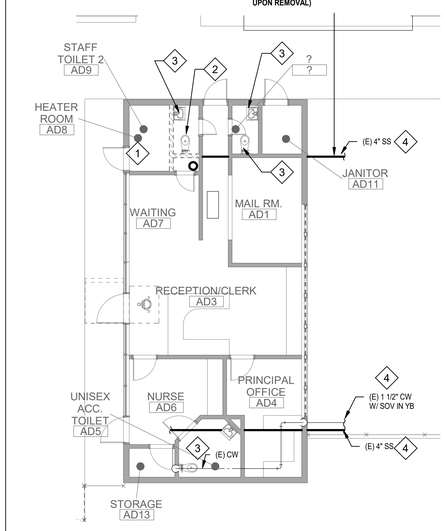
4 FLOOR PLAN - BUILDING C6 - DEMO
1/8" = 1'-0"



3 FLOOR PLAN - BUILDING C5 - DEMO
1/8" = 1'-0"



2 FLOOR PLAN - BUILDING C4 - DEMO
1/8" = 1'-0"



1 FLOOR PLAN - ADMIN BLDG - DEMO
1/8" = 1'-0"

DEMO KEY NOTES

1. MECHANICAL EQUIPMENT TO BE DEMOLISHED. REFER TO HVAC PLANS. CAP EXISTING 1 1/2" GAS AND 2" MAKE UP WATER TO MECHANICAL BOILER
2. EXISTING TOILET ROOM WALLS TO BE DEMOLISHED AND RECONFIGURED (PER ARCHITECTURAL DRAWINGS.) REMOVE PLUMBING FIXTURES. REMOVE AND REPLACE EXISTING SEWER BELOW FLOOR (WITHIN SCOPE), CAP VENT AND WATER LINE ABOVE CEILING.
3. EXISTING PLUMBING FIXTURE TO REMAIN
4. EXISTING PIPING BELOW FLOOR / GRADE
5. EXISTING PLUMBING FIXTURE TO BE REMOVED AND REPLACED. CAP SEWER, VENT AND WATER LINE TEMPORARILY FOR NEW REPLACEMENT. MODIFY AND EXTEND PIPING AS REQUIRED.

CONSTRUCTION NOTES

1. FOR CONTINUATION OF ALL UTILITIES SEE BUILDING AS-BUILTS
2. BEFORE COMMENCEMENT OF WORK , THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, ELEVATIONS AND CHARACTERISTICS OF ALL UTILITIES AND PIPING BY PHYSICAL EXCAVATION AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES
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4. WHERE PLANS INDICATE NEW FIXTURES OR EQUIPMENT CONNECTING TO EXISTING SERVICES, PLUMBING CONTRACTOR SHALL MODIFY AND OR EXTEND EXISTING PIPING OR ROUGH INS AS REQUIRED TO SUIT THE NEW FIXTURE.

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FINLEY ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
13521 Edwards St.
Westminster, CA 92683

DSA SUBMITTAL

DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43

KEY PLAN
NORTH: PLAN TRUE

Consultant

REGISTERED PROFESSIONAL ENGINEER
REX DAVID WANG
No.M36155
Exp.09-30-2024
MECHANICAL
STATE OF CALIFORNIA

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
12-28-2022	220307

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PLUMBING DEMOLITION FLOOR PLANS

PD2.02

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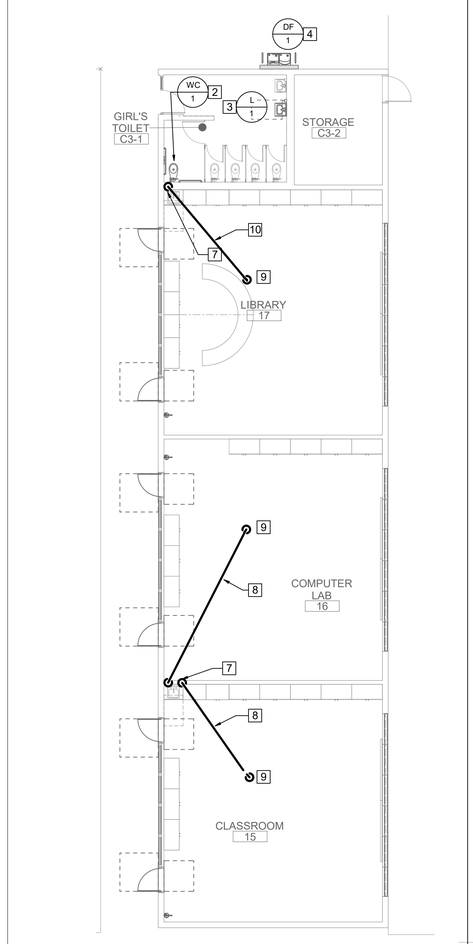
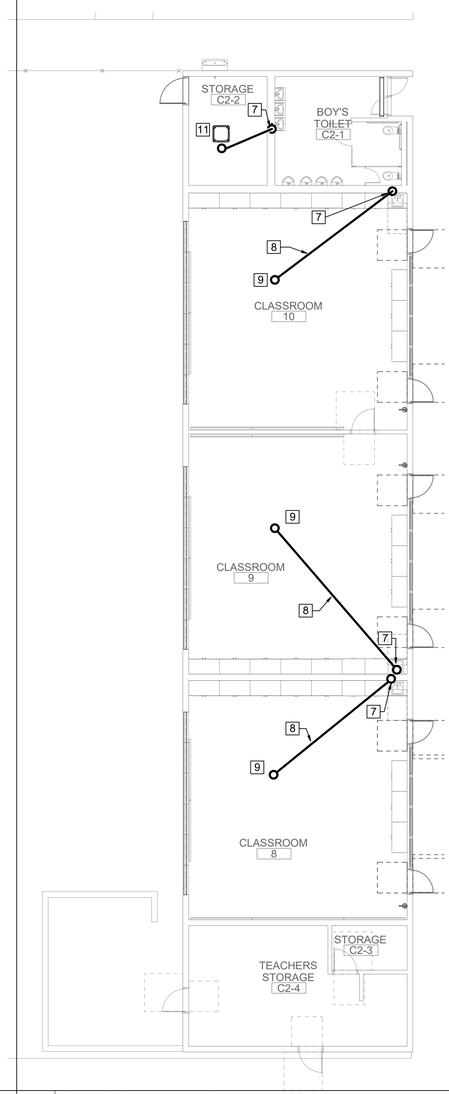
P2.01 - PLUMBING FLOOR PLANS

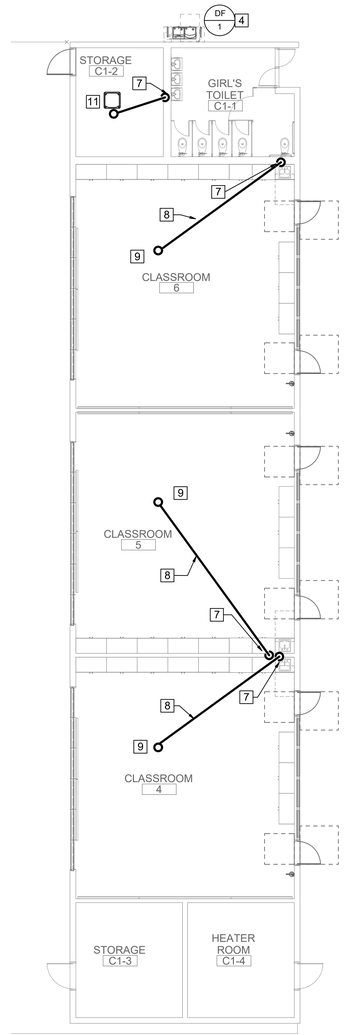
0" 1"



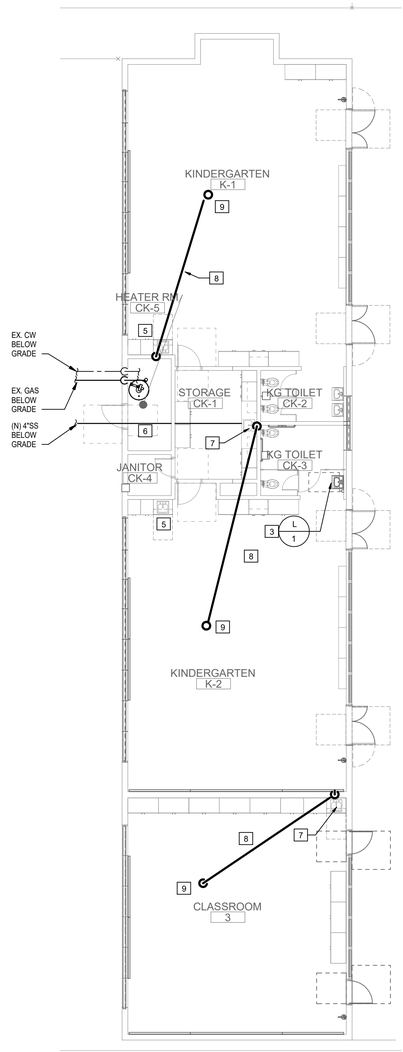
4 FLOOR PLAN - BUILDING C3
1/8" = 1'-0"



3 FLOOR PLAN - BUILDING C2
1/8" = 1'-0"



2 FLOOR PLAN - BUILDING C1
1/8" = 1'-0"



1 FLOOR PLAN - BUILDING CK
1/8" = 1'-0"

KEY NOTES

1. PIPING ABOVE IN ATTIC SPACE
2. ROUGH IN AND CONNECT 4" SANITARY SEWER , 2" VENT AND 1 -1/4" CW TO WATER CLOSET. WHERE PLANS INDICATE NEW FIXTURES OR EQUIPMENT CONNECTING TO EXISTING SERVICES, PLUMBING CONTRACTOR SHALL MODIFY AND/OR EXTEND EXISTING PIPING OR ROUGH-INS AS REQUIRED TO SUIT THE NEW FIXTURE.
3. LAVATORY AND FAUCET TO BE INSTALLED ACCESSIBLE COMPLIANT. PLUMBING CONTRACTOR TO SUPPLY & INSTALL NEW ANGLE STOP, SINK SUPPLY, COMPLETE WITH LOOSE KEY, CHROME ESCUTCHEON PLATE COMPRESSION INLET, HEAVY DUTY OUTLET RISER. ROUGH IN AND CONNECT 2" SANITARY SEWER , 2" VENT AND 1/2" CW, WHERE PLANS INDICATE NEW FIXTURES OR EQUIPMENT CONNECTING TO EXISTING SERVICES, PLUMBING CONTRACTOR SHALL MODIFY AND/OR EXTEND EXISTING PIPING OR ROUGH-INS AS REQUIRED TO SUIT THE NEW FIXTURE.
4. DRINKING FOUNTAIN POC TO (E) 2" SS AND 2" VENT AND (E) 3/4" CW . WHERE PLANS INDICATE NEW FIXTURES OR EQUIPMENT CONNECTING TO EXISTING SERVICES, PLUMBING CONTRACTOR SHALL MODIFY AND/OR EXTEND EXISTING PIPING OR ROUGH-INS AS REQUIRED TO SUIT THE NEW FIXTURE.
5. EXISTING PLUMBING FIXTURE
6. EXISTING WATER HEATER
7. 3/4" CONDENSATE FROM ABOVE. DROP DN. IN WALL TO LAV TAIL PIECE SEE DETAIL 01/ P6.01
8. 3/4" CONDENSATE IN ATTIC SPACE SLOPE @ 1%
9. 3/4" CONDENSATE UP TO A/C UNIT ON ROOF.
10. SINK AND FAUCET TO BE INSTALLED ACCESSIBLE COMPLIANT. PLUMBING CONTRACTOR TO SUPPLY & INSTALL NEW ANGLE STOP, SINK SUPPLY, COMPLETE WITH LOOSE KEY, CHROME ESCUTCHEON PLATE COMPRESSION INLET, HEAVY DUTY OUTLET RISER. ROUGH IN AND CONNECT 2" SANITARY SEWER , 2" VENT AND 1/2" H/ CW, WHERE PLANS INDICATE NEW FIXTURES OR EQUIPMENT CONNECTING TO EXISTING SERVICES, PLUMBING CONTRACTOR SHALL MODIFY AND/OR EXTEND EXISTING PIPING OR ROUGH-INS AS REQUIRED TO SUIT THE NEW FIXTURE.
11. NEW FAN COIL UNITS (BY MECHANICAL) PROVIDE CONDENSATE TRAP AND VENT AS REQUIRED SEE DETAIL 03 / P6.01

CONSTRUCTION NOTES

1. FOR CONTINUATION OF ALL UTILITIES SEE BUILDING AS-BUILTS
2. BEFORE COMMENCEMENT OF WORK , THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, ELEVATIONS AND CHARACTERISTICS OF ALL UTILITIES AND PIPING BY PHYSICAL EXCAVATION AND SHALL IMMEDIATLEY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES
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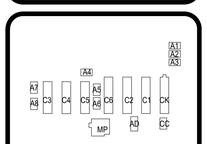

KEY PLAN
NORTH: PLAN TRUE

Consultant

REGISTERED PROFESSIONAL ENGINEER
REX DAVID WANG
No.M36155
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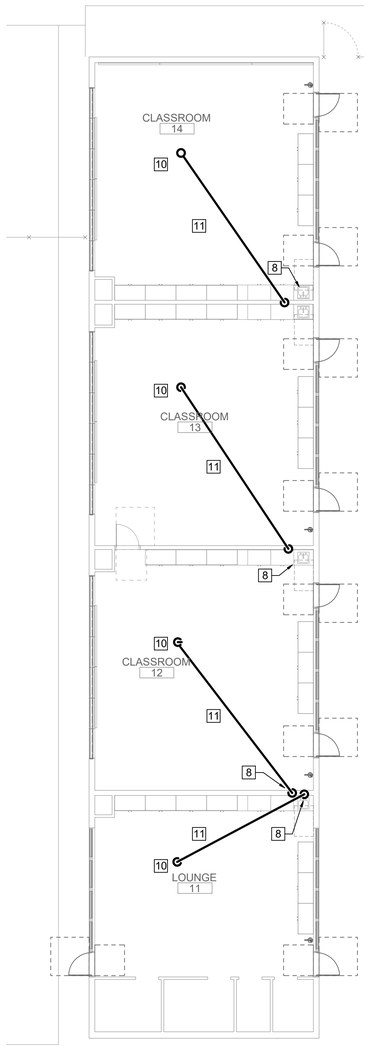
PLUMBING FLOOR PLANS

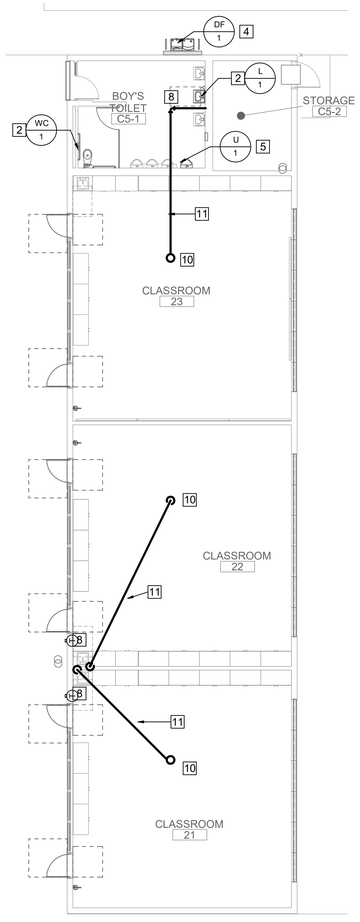
P2.01

FILE PATH: Z:\Projects\...
5/11/2023 6:15:59 PM

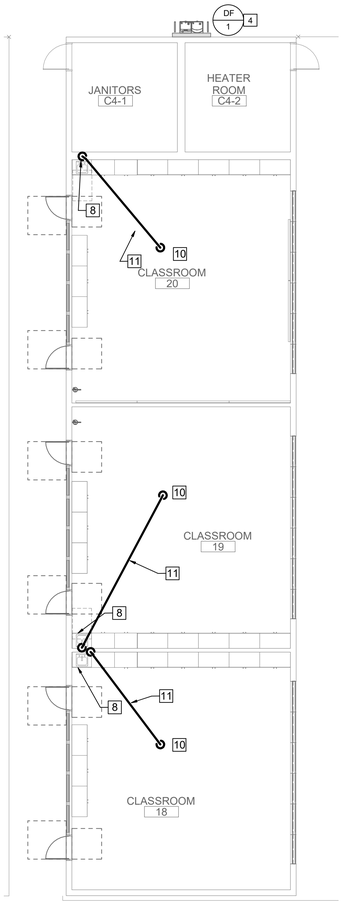
0" 1"



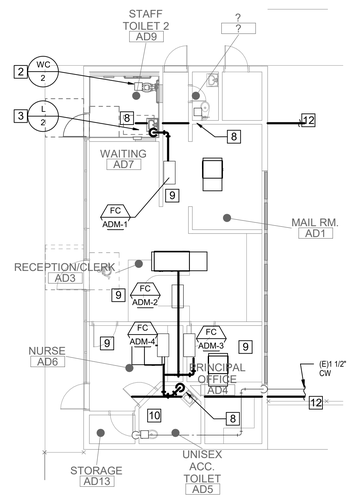
4 FLOOR PLAN - BUILDING C6
1/8" = 1'-0"



3 FLOOR PLAN - BUILDING C5
1/8" = 1'-0"



2 FLOOR PLAN - BUILDING C4
1/8" = 1'-0"



1 FLOOR PLAN - ADMIN BLDG
1/8" = 1'-0"

KEY NOTES

1. PIPING ABOVE IN ATTIC SPACE
2. ROUGH IN AND CONNECT 4" SANITARY SEWER , 2" VENT AND 1 -1/4" CW TO WATER CLOSET. WHERE PLANS INDICATE NEW FIXTURES OR EQUIPMENT CONNECTING TO EXISTING SERVICES, PLUMBING CONTRACTOR SHALL MODIFY AND/OR EXTEND EXISTING PIPING OR ROUGH-INS AS REQUIRED TO SUIT THE NEW FIXTURE.
3. LAVATORY AND FAUCET TO BE INSTALLED ADA COMPLIANT. PLUMBING CONTRACTOR TO SUPPLY & INSTALL NEW ANGLE STOP, SINK SUPPLY, COMPLETE WITH LOOSE KEY, CHROME ESCUTCHEON PLATE COMPRESSION INLET, HEAVY DUTY OUTLET RISER. ROUGH IN AND CONNECT 2" SANITARY SEWER , 2" VENT AND 1/2" HI/ CW WHERE PLANS INDICATE NEW FIXTURES OR EQUIPMENT CONNECTING TO EXISTING SERVICES, PLUMBING CONTRACTOR SHALL MODIFY AND/OR EXTEND EXISTING PIPING OR ROUGH-INS AS REQUIRED TO SUIT THE NEW FIXTURE.
4. DRINKING FOUNTAIN POC TO (E) 2" SS AND 2" VENT AND (E) 3/4" CW WHERE PLANS INDICATE NEW FIXTURES OR EQUIPMENT CONNECTING TO EXISTING SERVICES, PLUMBING CONTRACTOR SHALL MODIFY AND/OR EXTEND EXISTING PIPING OR ROUGH-INS AS REQUIRED TO SUIT THE NEW FIXTURE.
5. ROUGH IN AND CONNECT 2" SANITARY SEWER , 2" VENT AND 1 1/4" CW TO URINAL WHERE PLANS INDICATE NEW FIXTURES OR EQUIPMENT CONNECTING TO EXISTING SERVICES, PLUMBING CONTRACTOR SHALL MODIFY AND/OR EXTEND EXISTING PIPING OR ROUGH-INS AS REQUIRED TO SUIT THE NEW FIXTURE.
6. EXISTING PLUMBING FIXTURE
7. EXISTING WATER HEATER
8. 3/4" CONDENSATE FROM ABOVE. DROP DN. IN WALL TO LAV TAIL PIECE SEE DETAIL 01/ P6.01
9. NEW FAN COIL UNITS (BY MECHANICAL) PROVIDE CONDENSATE TRAP AND VENT AS REQUIRED SEE DETAIL 03 / P6.01
10. 3/4" CONDENSATE UP TO A/C UNIT ON ROOF.
11. 3/4" CONDENSATE IN ATTIC SPACE SLOPE @ 1%
12. NEW 4" SEWER LINE BELOW GRADE PROVIDE NEW CLEANOUT 5'-0" OUTSIDE FACE OF BUILDING. RE-CONNECT TO EXISITNG.

CONSTRUCTION NOTES

1. FOR CONTINUATION OF ALL UTILITIES SEE BUILDING AS-BUILTS
2. BEFORE COMMENCEMENT OF WORK , THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, ELEVATIONS AND CHARACTERISTICS OF ALL UTILITIES AND PIPING BY PHYSICAL EXCAVATION AND SHALL IMMEDIATLEY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES
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DSA SUBMITTAL

DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43

KEY PLAN
NORTH: PLAN TRUE

Consultant
REGISTERED PROFESSIONAL ENGINEER REX DAVID WANG No.M36155 Exp.09-30-2024 STATE OF CALIFORNIA

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT
DATE 12-28-2022
PROJECT NUMBER 220307

REVISIONS

No.	Description	Date

DSA SUBMITTAL

PLUMBING FLOOR PLANS

P2.02

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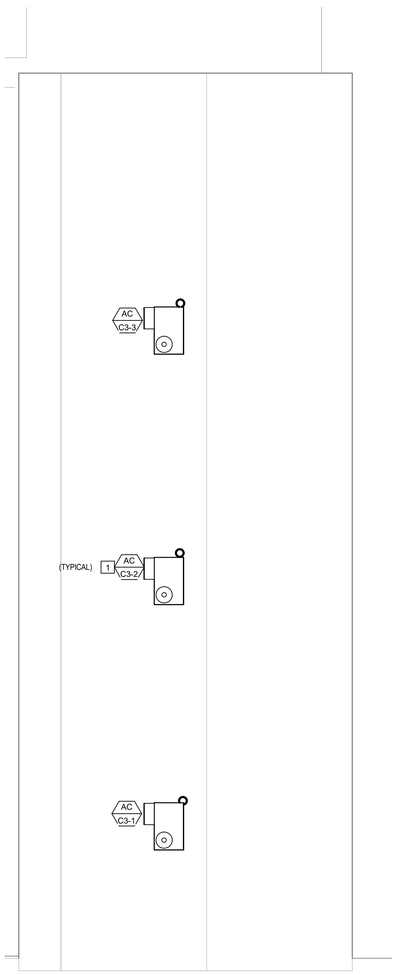
P4.01 - PLUMBING ROOF PLANS

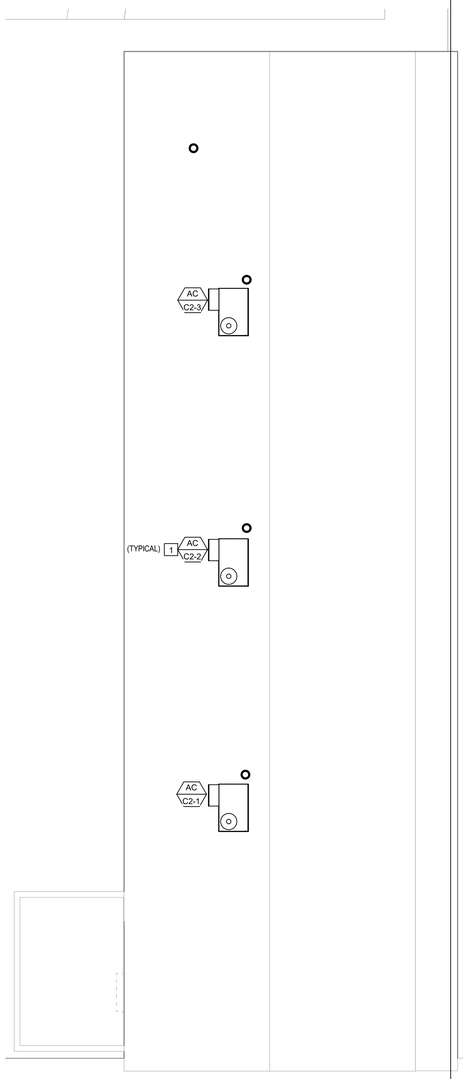
0" 1"

KEY NOTES

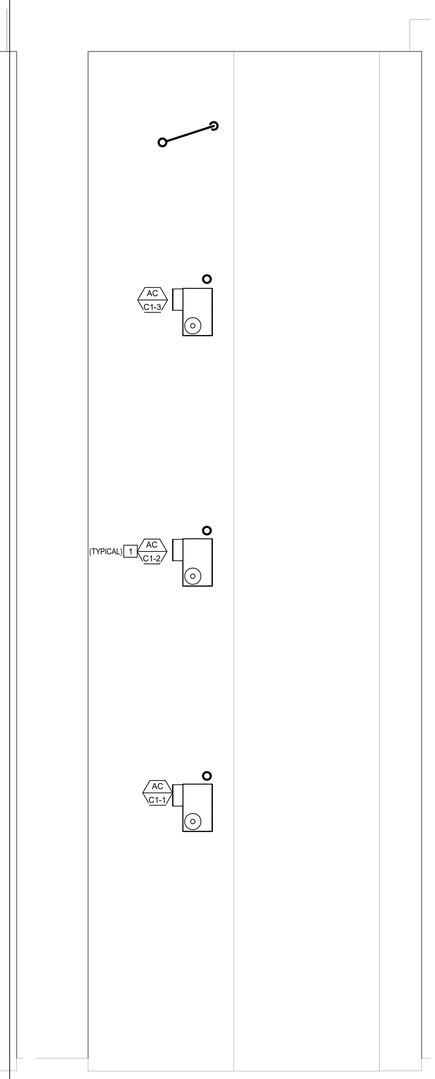
1 NEW A/C UNITS (BY MECHANICAL) PROVIDE 3/4" CONDENSATE LINE, TRAP AND VENT AS REQUIRED. ROUTE 3/4" CONDENSATE DOWN THROUGH ROOF



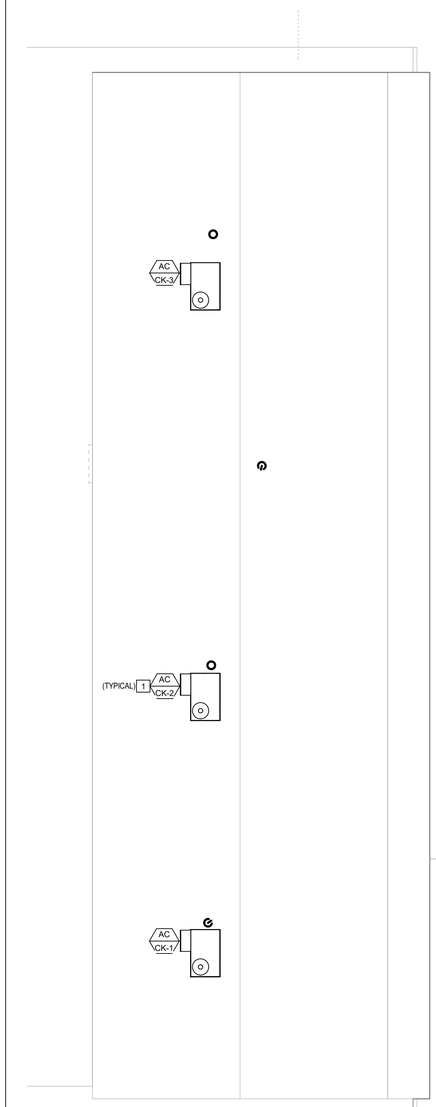
4 PLUMBING ROOF PLAN - BUILDING C3
1/8" = 1'-0"



3 PLUMBING ROOF PLAN - BUILDING C2
1/8" = 1'-0"



2 PLUMBING ROOF PLAN - BUILDING C1
1/8" = 1'-0"



1 PLUMBING ROOF PLAN - BUILDING CK
1/8" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121814 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/11/2023

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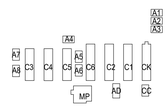
FINLEY ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
13521 Edwards St.
Westminster, CA 92683

DSA SUBMITTAL

DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43



KEY PLAN NORTH: PLAN TRUE

Consultant

REGISTERED PROFESSIONAL ENGINEER
REX DAVID WANG
No.M36158
Exp.09-30-2024
MECHANICAL
STATE OF CALIFORNIA

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
12-28-2022	220307

REVISIONS

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PLUMBING ROOF PLANS

P4.01

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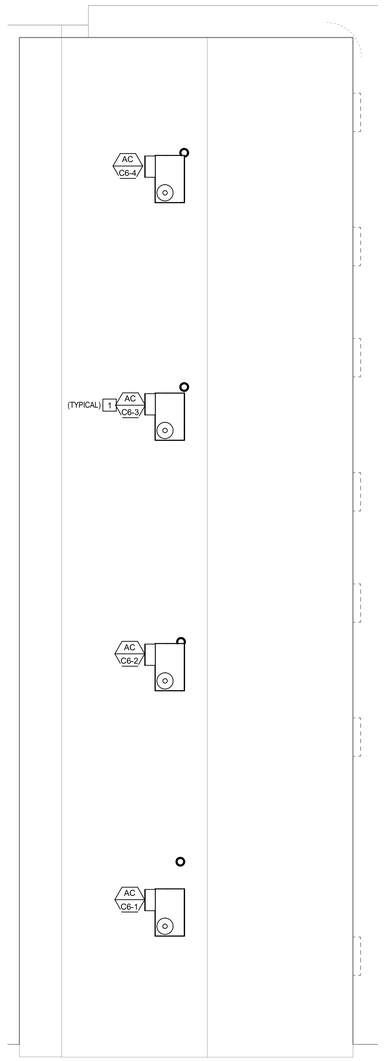
0" 1"



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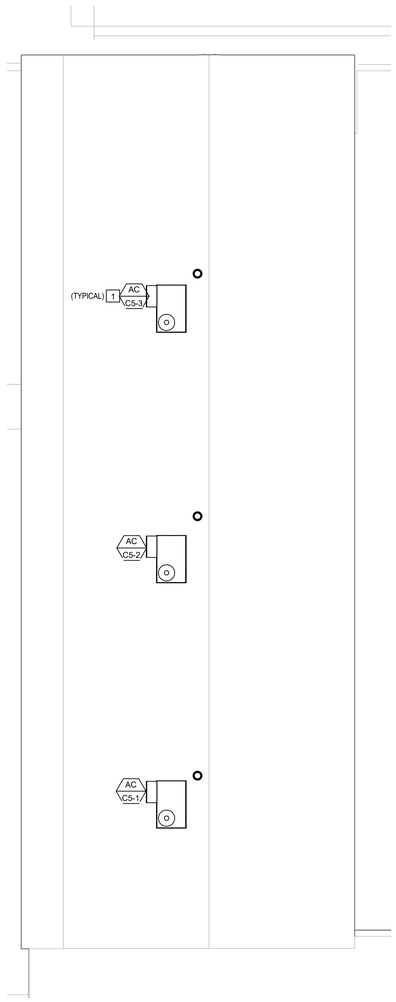
1/8" = 1'-0"



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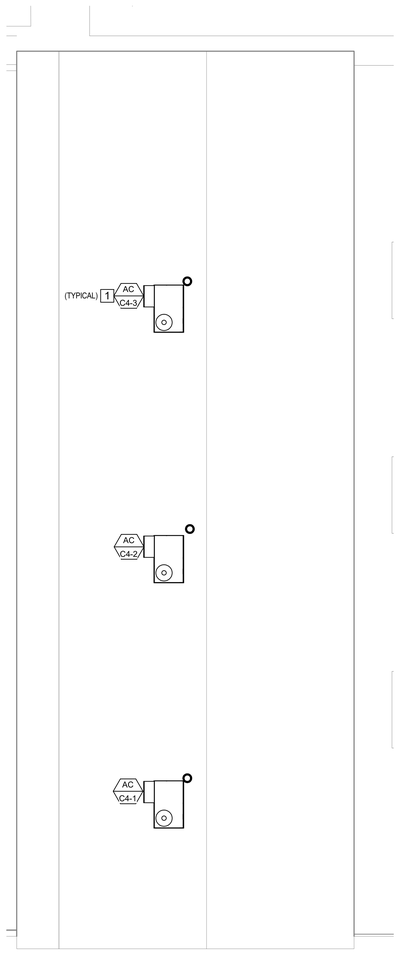
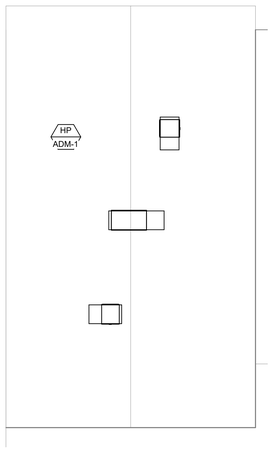
1/8" = 1'-0"



2 PLUMBING ROOF PLAN - BUILDING C4
1/8" = 1'-0"



1 PLUMBING ROOF PLAN - ADMIN BLDG
1/8" = 1'-0"

KEY NOTES

1 NEW A/C UNITS (BY MECHANICAL) PROVIDE 3/4" CONDENSATE LINE, TRAP AND VENT AS REQUIRED. ROUTE 3/4" CONDENSATE DOWN THROUGH ROOF

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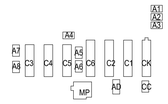

KEY PLAN NORTH: PLAN TRUE

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MECHANICAL
STATE OF CALIFORNIA

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT

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PLUMBING ROOF PLANS

P4.02

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5/11/2023 6:16:05 PM

0" 1"

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	S or W	V	CW	HW	DESCRIPTION
WC 1	WATER CLOSET (KINDER)	4"	2"	1-1/2"	---	AMERICAN STANDARD MADERA YOUTHWISE # 2599.001.128 FLOOR MOUNTED TOILET SYSTEM WITH 6047.161.002 MANUAL FLUSH VALVE WITH METAL COVER AND 5901.100 HEAVY DUTY OPEN FRONT SEAT. FLUSH VALVE HANDLE TO BE MOUNTED ON WIDE SIDE OF STALL , CBC COMPLIANT
WC 2	WATER CLOSET (ADA)	4"	2"	1-1/2"	---	AMERICAN STANDARD MADERA FLOWISE # 2854.128 FLOOR MOUNTED TOILET SYSTEM WITH SLOAN ROYAL 111-1.28 MANUAL FLUSH VALVE WITH METAL COVER AND 5901.100 HEAVY DUTY OPEN FRONT SEAT. FLUSH VALVE HANDLE TO BE MOUNTED ON WIDE SIDE OF STALL . (ACCESSIBLE) CBC COMPLIANT
U 1	URINAL	2"	1-1/2"	1"	---	AMERICAN STANDARD # 6590.001 WASHBROOK FLOWISE WALL HUNG URINAL " VITREOUS CHINA" 0.125 GPF, SLOAN ROYAL 186.125 EXPOSED MANUAL FLUSH VALVE J.R. SMITH # 0600 SERIES URINAL SUPPORTS. INSTALL IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. FOR MOUNTING HEIGHT REFER TO ARCH PLANS. CBC COMPLIANT
L 1	LAVATORY	2"	1-1/2"	1/2"	-	AMERICAN STANDARD NO. 0356.041"LUCERNE WALL HUNG LAVATORY" 20"X18" WALL HUNG, COMPLETE WITH FAUCET WITH 0.5 GPM AERATOR AND VANDAL RESISTANT COVER PLATE, MCGUIRE NO. 155A 1-1/4" OUTLET "OPEN GRID P.O. PLUG" MCGUIRE NO. PW8090NCO 1-1/4" L.A. PATTERN P-TRAP WITH TRAP AND SUPPLYCOVERS, GALVANIZED NIPPLE AND CHROMIUM PLATED BRASS CASING, CHICAGO NO. 1017 -ABCP LOOSE KEY STOPSWITH RIGID SUPPLIES, AND ZURN NO. Z-1231CARRIER WITH STEEL PLATE, MOUNT PER ARCHITECTURAL DWGS.
L 2	LAVATORY (STAFF)	2"	1-1/2"	1/2"	1/2"	SAME AS L-1 MOUNT AT ADULT ACCESIBLE HEIGHT
S 1	SINK (STAFF)	2"	2"	1/2"	1/2"	JUST SL -ADA ,2225 - B - GR 18 GA STAINLESS STEEL , SINGLE COMPARTMENT , 25" X 22" X 0-1/2, 3-HOLE PUNCH WITH CHICAGO 1100-GN8AE35-369AB WRISTBLADE LEVER, FAUCET WITH 1.5 GPM FLOW RETRICTOR, J-35-FS PERFORATED GRID DRAIN , SPEEDWAY COMPRESSION WALL STOPS & SUPPLY, P-TRAP . SYMMONS "MAXLINE" NO. 7-225-CK-MS-BT-X THERMOSTATIC MIXING VALVE WITH STAINLES STEEL CABINET,CBC COMPLIANT FOR ACCESS.
DF 1	DRINKING FOUNTAIN	2"	2"	1/2"	---	ELKAY NO. VRC8TLWS / FILTERED DUAL LZ COOLER, WALL MOUNTED. W TOUCHLESS BOTTLE FILLER EZH2O, W/ SOLENOID VALVE, CONTROLLED BY TRANSFORMER 115 / 60HZ / 4.2 FLA 14 GAUGE STAINLESS STEEL W/ INTEGRAL 1/4" STAINLESS STEEL MOUNTING PLATE. ADA APPROVED, COMPLETE WITH VANDAL PROOF BOTTOM CHICAGO NO. 45LKABCP ANGLE STOP W/ 1/2" FEMALE INLET & OUTLET. MOUNT AT ADA ACCESSIBLE HEIGHT.
WHA 1	WATER HAMMER ARRESTER	---	---	VARIES	VARIES	PPP SC SERIES HYDRA-RESTER, SEAMLESS COPPER CHAMBER SUITABLE FOR CONCEALED INSTALLATION, SIZE INDICATED ON PLANS. INSTALL PER MANUFACTURER RECOMMENDATION.
TP 1	TRAP PRIMER	---	---	1/2"	--- ---	PRECISION PLUMBING PRODUCTS INC. BRASS DIAPHRAM TYPE TRAP PRIMER W/INTEG. VAC. BREAKER & GRAVITY OUTLET, PROVIDE INLET BALL VALVE & ACCESS PANEL. SEE PLANS FOR NUMBER OF TRAPS SERVED.

NOTES:

1. REFER TO ARCHITECHTURAL DRAWINGS FOR EXACT SPECIFICATIONS AND LOCATIONS OF ALL APPLIANCES, PLUMBING FIXTURES AND FAUCETS. WHERE THERE IS A DISCREPANCY BETWEEN THE ENGINEERING AND ARCHITECTURAL DRAWINGS OF APPLIANCES AND FIXTURE SPECIFICATIONS, NOTIFY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
2. ALL FIXTURES AND APPLIANCES SHALL BE APPROVED BY THE LOCAL AUTHORITIES HAVING JURISDICTION.
3. PLUMBING CONTRACTOR TO COORDINATE NUMBER OF REQUIRED HOLES FOR ALL SINKS BASED ON EQUIPMENT / ACCESSORIES SPECIFIED. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
4. ALL FITTINGS AND FAUCETS TO BE USED SHALL BE IN COMLIANCE WITH STATE ASSEMBLY BILL AB1953 (LEAD FREE)

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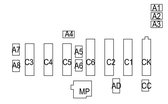
DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43



KEY PLAN NORTH: PLAN TRUE

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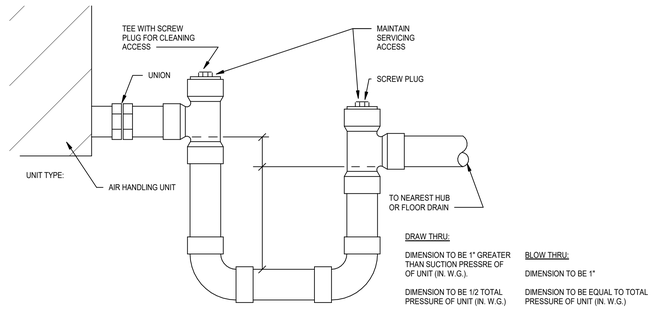
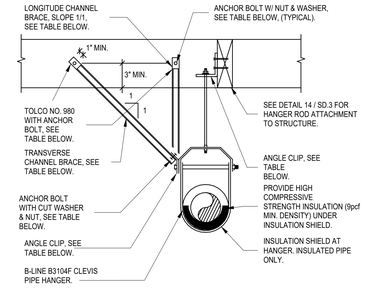
PLUMBING SCHEDULES

P5.01

0" 1"



3 CONDENSATE TRAP PIPING DETAIL
12" = 1'-0"

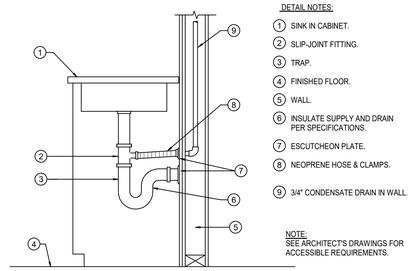


TYPICAL SEISMIC BRACING FOR PIPE

PIPE SIZE	* CHANNEL BRACE	ROD SIZE	MAX. VERT. SUPPORT SPACING	MAX. TRANS./ LONGITUDE SUPPORT SPACING	ANCHOR BOLT SIZE	ANGLE CLIP
1/2"	1-5/8"x1-5/8"x12 GA	1/4"	5'	10'	1/4"	2"x2"x1/8"x0'-2"
3/4"	1-5/8"x1-5/8"x12 GA	1/4"	6'	12'	3/8"	2"x2"x1/8"x0'-2"
1"	1-5/8"x1-5/8"x12 GA	3/8"	7'	14'	3/8"	3"x3"x1/4"x0'-3"
1-1/4"	1-5/8"x1-5/8"x12 GA	3/8"	8'	16'	3/8"	3"x3"x1/4"x0'-3"
1-1/2"	1-5/8"x1-5/8"x12 GA	3/8"	9'	18'	3/8"	3"x3"x1/4"x0'-3"
2"	1-5/8"x1-5/8"x12 GA	3/8"	10'	20'	3/8"	3"x3"x1/4"x0'-3"
2-1/2"	1-5/8"x1-5/8"x12 GA	3/8"	10'	22'	3/8"	3"x3"x1/4"x0'-3"
3", 4"	1-5/8"x1-5/8"x12 GA	3/8"	11'	24'	1/2"	3"x3"x1/4"x0'-3"

* CHANNEL MAX. 5'-0" LENGTH

2 PIPE SUPPORT DETAIL (WOOD STRUCTURE)
12" = 1'-0"



DETAIL NOTES:

1. SINK IN CABINET.
2. SLIP-JOINT FITTING.
3. TRAP.
4. FINISHED FLOOR.
5. WALL.
6. INSULATE SUPPLY AND DRAIN PER SPECIFICATIONS.
7. ESCUTCHEON PLATE.
8. NEOPRENE HOSE & CLAMPS.
9. 3/4" CONDENSATE DRAIN IN WALL.

NOTE:
SEE ARCHITECT'S DRAWINGS FOR ACCESSIBLE REQUIREMENTS.

1 CONDENSATE TO TAILPIECE DETAIL
12" = 1'-0"

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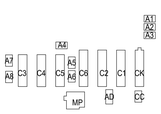

KEY PLAN
NORTH: PLAN TRUE

Consultant

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REX DAVID WANG
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STATE OF CALIFORNIA

Architect

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PLUMBING DETAILS

P6.01

DEVICE SCHEDULE

SYM.	MODEL	MANUFACTURER	DESCRIPTION	MOUNTING	CSFM #
FACP	IFP-2100ECS	FARENHYT	EMERGENCY VOICE/ALARM COMMUNICATION PANEL ECS-INT50W, INTERNAL 50 WATT AMPLIFIER 6815, SLC EXPANDER	WALL MOUNTED	7165-0559:0505 7300-0559:0176
	HWF2V-COM	HONEYWELL/ADEMCO	CELLULAR FIRE ALARM COMMUNICATOR	WALL MOUNTED	7300-1645:0511
	SSU00672	SAE	FIRE DOCUMENT BOX-RED	WALL MOUNT @ FACP	UL LISTED
AMP	ECS-50W	FARENHYT	SINGLE CHANNEL 50W, 25/70V AMPLIFIER	WALL MOUNTED	7165-0559:0505
FAPS	RPS-1000	FARENHYT	INTELLIGENT 6 AMP NAC POWER SUPPLY	WALL MOUNTED	7165-0559:0505
FATC	SSU00636	SAE	FIRE ALARM TERMINAL CABINET	WALL MOUNTED	UL & NEMA LISTED
CR	IDP-RELAY	FARENHYT	ADDRESSABLE RELAY MODULE	4-11/16" SQUARE BOX 2-1/8" MIN. DEPTH	7300-0559:0155
S P	IDP-PHOTO-W B210LP	FARENHYT	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR HEAD 6" DETECTOR BASE	4-11/16" SQUARE BOX 2-1/8" MIN. DEPTH	7272-0559:0149 7300-1653:0109
! A / ! C	IDP-HEAT-W B210LP	FARENHYT	ADDRESSABLE FIXED (135°F) HEAT SENSOR HEAD (F = FIXED, A = ATTIC) 6" DETECTOR BASE	4-11/16" SQUARE BOX 2-1/8" MIN. DEPTH	7270-0559:0147 7300-1653:0109
F	IDP-PULL-DA	FARENHYT	ADDRESSABLE DOUBLE ACTION MANUAL PULL STATION	4-11/16" SQUARE BOX 2-1/8" MIN. DEPTH	7150-0559:0157
	SRL	SYSTEM SENSOR	MULTI CANDELA STROBE, CEILING MOUNT-RED	4-11/16" SQUARE BOX 2-1/8" MIN. DEPTH	7125-1653:0504
	SPSRL	SYSTEM SENSOR	MULTI CANDELA TEMPORAL SPEAKER STROBE, CEILING MOUNT-RED	4-11/16" SQUARE BOX 2-1/8" MIN. DEPTH	7320-1653:0505
WP	SPRK	SYSTEM SENSOR	WEATHER PROOF SPEAKER, WALL MOUNT-RED	WBB BACK BOX IS INCLUDED	7320-1653:0201
JB	TBD	TBD	ELECTRICAL JUNCTION BOX (SIZES WILL VARY)	TBD	UL LISTED
ANN	RA-2000	FARENHYT	FIRE ALARM REMOTE ANNUNCIATOR	4-11/16" SQUARE BOX	7165-0559:0505
****	PS-12260VdS	POWER SONIC	12VDC, 26AH RECHARGEABLE SEALED LEAD ACID BATTERY	INSTALL IN EVAC ENCLOSURE	UL LISTED
****	PS-1270	POWER SONIC	12VDC, 7AH RECHARGEABLE SEALED LEAD ACID BATTERY	INSTALL IN POWER SUPPLY, AMPLIFIER & FAC ENCLOSURES	UL LISTED

NOTES:

1. INSTALL TWO 12VDC, 26Ah BATTERIES IN EVAC ENCLOSURE.
2. INSTALL TWO 12VDC, 7AH BATTERIES IN EACH NAC POWER SUPPLY & AMPLIFIER ENCLOSURES.
3. INSTALL ONE 12VDC, 7AH BATTERY IN COMMUNICATOR ENCLOSURE.

LEGENDS

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
A OR AMP	AMPERES	NIC	NOT IN CONTRACT
AFF	ABOVE FINISHED FLOOR	NO.	NUMBER
AIC	AMPERES INTERRUPTING CAPACITY	PH. OR Ø	PHASE
ARCH.	ARCHITECT; ARCHITECTURAL	PNL	PANEL
AWG	AMERICAN WIRE GAUGE	PWR	POWER
C	CONDUIT	REC/RECEPT	RECEPTACLE
CKT	CIRCUIT	REQ'D	REQUIRED
CL.	CEILING MOUNTED DEVICE	RM	ROOM
C.O.	CONDUIT ONLY WITH PULL WIRE	SF	SQUARE FEET
CU	COPPER	SHT	SHEET
DWG	DRAWING	SP	SINGLE POLE
ER	EXISTING DEVICE TO BE REMOVED	SPECS	SPECIFICATIONS
EMT	ELECTRICAL METALLIC TUBING	SW	SWITCH
EQUIP	EQUIPMENT	TYP	TYPICAL
EXIST / (E)	EXISTING	UG	UNDERGROUND
FIN.	FINISH	U.O.N.	UNLESS OTHERWISE NOTED
FLR	FLOOR	V	VOLTS
FT	FEET	V-A	VOLT-AMPERES
GFI	GROUND FAULT INTERRUPTER	W	WATTS
GND	GROUND	W/	WITH
LTG.	LIGHTING	W/O	WITHOUT
MTG	MOUNTING	WP	WEATHERPROOF
N	NEW	CEC	CALIFORNIA ELECTRICAL CODE
FS	FLOW SWITCH		
JB	JUNCTION BOX		
PIV	POST INDICATOR VALVE		
TS	TEMPER SWITCH		
	PULL BOX (WEATHERPROOF)		
##	RISER UP AND DOWN		

APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2020 *
2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR *
2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
(2018 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2019 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
(2017 NATIONAL ELECTRICAL CODE AND 2019 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
(2018 IAPMO UNIFORM MECHANICAL CODE AND 2019 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
(2018 IAPMO UNIFORM PLUMBING CODE AND 2019 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2019 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
(2018 INTERNATIONAL FIRE CODE AND 2019 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
(2018 INTERNATIONAL EXISTING BUILDING CODE AND 2019 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2019 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

PARTIAL LIST OF APPLICABLE STANDARDS
NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED): 2016 EDITION
NFPA 720 STANDARD FOR THE INSTALLATION OF CARBON MONOXIDE DETECTION AND WARNING EQUIPMENT; 2016 EDITION
NFPA 80 STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES; 2016 EDITION
UL 464 AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES; 2003 EDITION
UL 521 STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS; 1999 EDITION
UL 1971 STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED; 2002 EDITION (R2010)
ICC 300 STANDARD FOR BLEACHERS, FOLDING AND TELESCOPING SEATING AND GRANDSTANDS; 2017 EDITION

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.

SEE CALIFORNIA BUILDING CODE, CHAPTER 35, FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

DRAWING INDEX

FIRE WATCH NOTE

A FIRE WATCH SHALL BE ESTABLISHED AND THE FIRE DEPARTMENT & FIRE CODE OFFICIAL SHALL BE NOTIFIED IMMEDIATELY WHENEVER THE FIRE PROTECTION / ALARM SYSTEM IS RENDERED OUT OF SERVICE. A FIRE WATCH SHALL BE STAGED WHENEVER THE BUILDING IS OCCUPIED (PARTIAL OR WHOLE) PER DSA IR F-2 AND CFC 901.7.

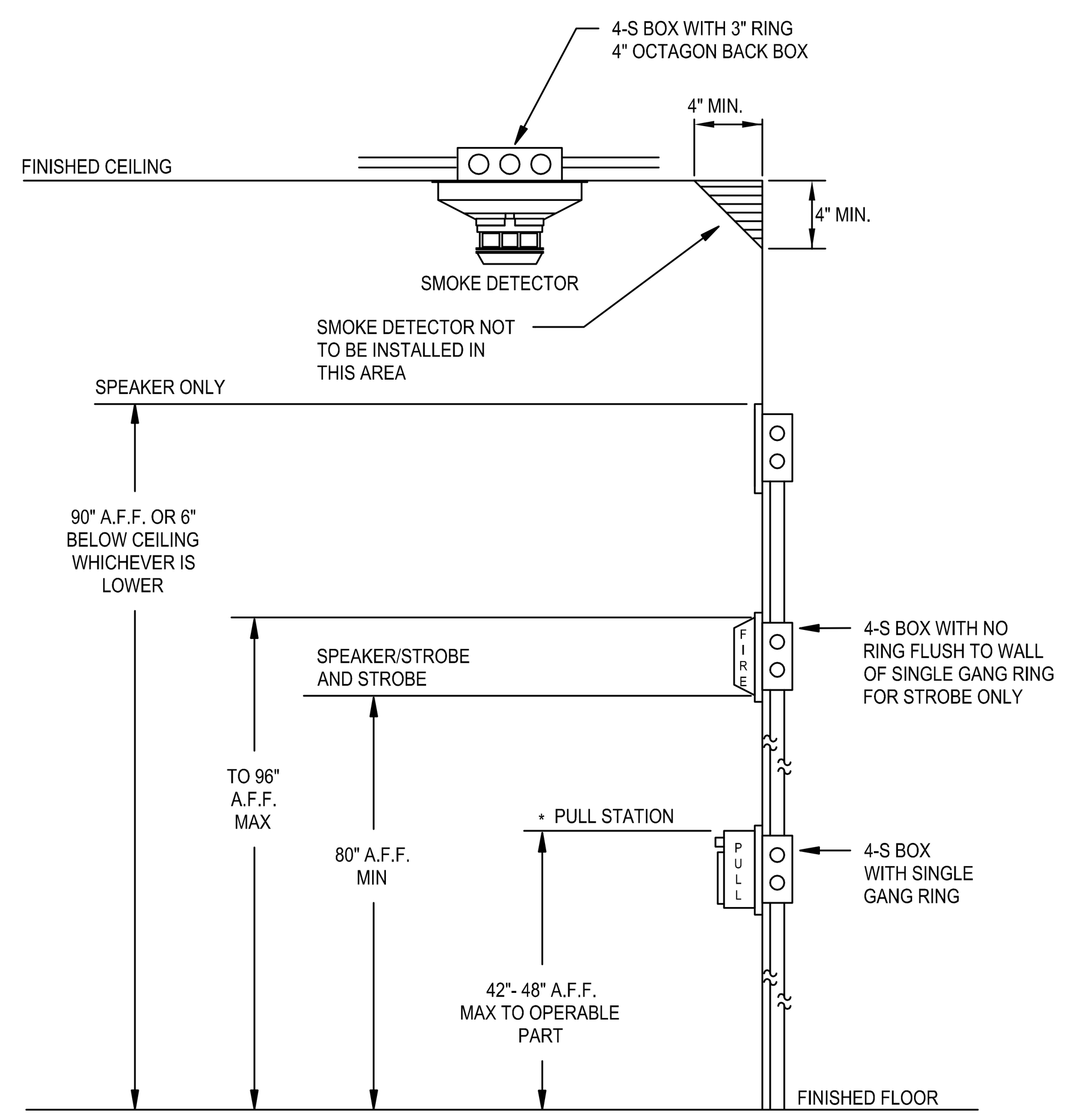
SCOPE OF WORK

PROVIDE COMPLETE FULL AUTOMATIC ADDRESSABLE FIRE ALARM SYSTEM WITHIN THE AREA OF WORK. PROVIDE FIRE ALARM SYSTEM DEVICES AS SHOWN IN EQUIPMENT LEGEND, FLOOR PLANS, AND SPECIFICATIONS IN THIS CONSTRUCTION DOCUMENT SET. USE NEW FIRE ALARM CONTROL PANEL TO CONNECT NEW FIRE ALARM SYSTEM DEVICES SHOWN PER DRAWING AND SPECIFICATION DOCUMENT. UPON COMPLETION, A COMPLETE PRE TEST SHALL BE PERFORMED TO VERIFY FUNCTIONALITY, IF FUNCTIONALITY IS COMPLETE THEN THE PROPER DOCUMENTATION SHALL BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION PRIOR TO SCHEDULING A FINAL INSPECTION.

GENERAL NOTES

1. APPLICABLE STANDARD 2016, NFPA 72, AS ADOPTED AND AMENDED IN CBC CHAPTER 35
2. INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM, HAS BEEN APPROVED BY DSA.
3. UPON COMPLETION OF SYSTEM INSTALLATION, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR.
4. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.
5. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT/ENGINEER OF THE PROJECT.
6. DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND /OR TESTING.
7. ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7, UL OR OTHER APPROVED LAB TESTING CRITERIA. APPROVED TYPES OF MATERIALS SHALL BE IDENTIFIED WITHIN THE PROJECT SPECIFICATIONS WITHIN THE FIRE ALARM SECTION.
8. WALL MOUNTED VISIBLE NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND 96" MAXIMUM FROM FINISHED FLOOR.
9. WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM AND 100" MAXIMUM FROM FINISHED FLOOR AND NO CLOSER THEN 6" TO A HORIZONTAL STRUCTURE.
10. AUDIBLE DEVICES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 DECIBELS (DBA) ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR FIVE DBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, IN EVERY OCCUPIABLE SPACE WITHIN THE BUILDING.
11. AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN.
12. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
13. VISIBLE DEVICES SHOULD NOT EXCEED TWO FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN ONE FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELLA. VISIBLE DEVICES WITHIN 55' FROM EACH OTHER SHALL BE SYNCHRONIZED.
14. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER TIGHT FITTINGS AND WIRE TO BE APPROVED FOR WET LOCATIONS.
15. ALL FIRE ALARM WIRING SHALL BE FPLOR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE TYPE THHN OR THWN.
16. PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE THE WIRE. ALL BOXES TO BE SIZED PER CEC.
17. SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1' FROM FIRE SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM, DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.
18. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAY OR OPEN RUN ABOVE CEILINGS, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANOR AS INDICATED ON DESIGN DOCUMENTS.
19. EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS.
20. FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.
21. A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL." CIRCUIT ID TO BE LABELED AT FIRE PANEL/EXTENDERS.
22. THE INSTALLING CONTRACTOR SHALL PROVIDE A COMPLETED "SYSTEM RECORD OF COMPLETION" PER NFPA 72, FIGURE 7.8.2.
23. FIRE ALARM CONTROL PANELS AND REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48" ABOVE THE FINISHED FLOOR.
24. MICROPHONES ASSOCIATED WITH EMERGENCY VOICE ALARM COMMUNICATION SYSTEMS (EVAC) SHALL BE ACCESSIBLE FOR USE, INSTALLED IN COMPLIANCE WITH CBC SECTIONS 11B-305 AND 11B-308.
25. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 901.6.2.
26. SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST.
27. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.
28. ALL CARBON MONOXIDE SIGNALS SHALL SOUND A FOUR-PULSE TEMPORAL PATTERN PER NFPA 720, 5.8.6.5.1.
29. ALL EQUIPMENT SHALL BE U.L. AND C.S.F.M. LISTED.
30. ELECTRICAL CONTRACTOR SHALL FURNISH ACCESS PANELS TO AREAS THAT REQUIRE ACCESS FOR ATTIC HEAT DETECTOR, SERVICING, TROUBLESHOOTING, ETC.
31. DO NOT DEVIATE FROM CONDUIT RUNS AS SHOWN ON FLOOR PLANS WITHOUT PRIOR APPROVAL FROM SYSTEM SUPPLIER. FACTORS SUCH AS EXCESSIVE VOLTAGE DROP, ADDITIONAL PARTS, ENGINEERING, ETC., THAT ARE A RESULT OF CONDUIT RUN DEVIATIONS SHALL BE THE SOLE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
32. ALL FAN SHUTDOWN FUNCTIONS, DAMPER CLOSURES, AND ASSOCIATED MECHANICAL SYSTEM FIRE ALARM I NTERFACE SHALL BE BY MECHANICAL CONTRACTOR.
34. ALL 120VAC POWER REQUIREMENTS FOR THE FIRE ALARM SYSTEM SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR AND SHALL MEET ALL REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.
35. ALL FIRE ALARM DEVICE BACKBOXES, FIRE ALARM TERMINAL CABINETS, GUTTERS, JUNCTION BOXES, AND ASSOCIATED CONDUITS SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED. REFER TO FIRE ALARM SYMBOL LIST AND/OR MOUNTING DETAILS FOR ADDITIONAL INFORMATION. SYSTEM SUPPLIER PROVIDED BACKBOXES SHALL BE INSTALLED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.
36. SMOKE DETECTOR TESTING SHALL BE ACCOMPLISHED PER THE MANUFACTURER'S INSTRUCTIONS.
37. ALL WIRING, INITIATING DEVICES AND ANNUNCIATOR PANEL SHALL BE SUPERVISED TO THE PRINCIPAL POINT OF ANNUNCIATION. THE FIRE ALARM CONTROL PANEL TO SUPERVISE THE ANNUNCIATOR PANEL, ALL INITIATING AND INDICATING DEVICE CIRCUITS.
38. ALL WIRING SHALL BE CUT FOR IN AND OUT. WIRING SHALL NOT BE LOOPED THROUGH DEVICES.
39. POINT, COMMON ANNUNCIATION, AND T-TAPPING ARE PROHIBITED.
40. PROVIDE 3/4" CONDUIT FROM FIRE ALARM CONTROL PANEL TO TELEPHONE BACKBOARD FOR OWNER PROVIDED CENTRAL STATION MONITORING.
41. ALL CONDUIT SHALL BE 3/4" UNLESS OTHERWISE NOTED.
42. ALL FLOW SWITCHES SHALL BE 2 WIRE WITH NON-ELECTRONIC RETARD TYPE SIMILAR TO THE SYSTEM SENSOR MODEL "WFD SERIES" ONLY.
43. ALL DEVICES IN THE ALARM SYSTEM SHALL BE COMPATIBLE AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
44. FIRE ALARM SYSTEM SHALL BE UL LISTED (UUJS).
45. CBC 907.6.5.3 (SFM AMENDMENT) REQUIRES FIRE ALARM TO... "TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISORY STATION IN ACCORDANCE WITH NFPA 72. THE SUPERVISORY STATION SHALL BE LISTED AS EITHER UUFX (CENTRAL STATION) OR UUJS (REMOTE AND PROPRIETARY) BY THE UNDERWRITERS LABORATORY INC. (UL) OR OTHER APPROVED LISTING AND TESTING LABORATORY OR SHALL COMPLY WITH THE REQUIREMENTS OF STANDARD, FM 3011)."
46. SUBSTITUTION OF SYSTEM COMPONENTS OR MANUFACTURER WILL REQUIRE THE CONTRACTOR TO SEPARATELY OBTAIN APPROVAL WITH THE DSA AT CONTRACTOR'S EXPENSE AND SHALL MEET ALL REQUIREMENTS OF THE SYSTEM AS DESIGNED AND PRE-APPROVED. ALL PROPOSED SUBSTITUTIONS SHALL BE LISTED WITH THE CALIFORNIA STATE FIRE MARSHAL.
47. FINAL ACCEPTANCE TEST TO INCLUDE TESTING THE CONNECTION BETWEEN THE FIRE ALARM PANEL AND THE SUPERVISING STATION.
48. COORDINATE WITH THE ENGINEER FOR USE OF EXISTING CONDUIT ON A CASE BY CASE BASIS.
49. PRIOR TO DEMOLITION, CONTRACTOR SHALL TEST THE INTERCOM SYSTEM TO ENSURE FULL FUNCTIONALITY. GENERATE A LIST OF FAULTY EQUIPMENT AND PROVIDE TO THE OWNER AND THE ARCHITECT. PROVIDE PRICING FOR ANY REQUIRED EQUIPMENT REPAIRS OR REPLACEMENT.
50. CONTRACTOR SHALL DISCONNECT EXISTING FIRE ALARM SYSTEM FROM THE EXISTING INTERCOM SYSTEM. ENSURE THE INTERCOM SYSTEM IS COMPLETELY FUNCTIONAL AFTER DISCONNECTION.
51. CONTRACTOR SHALL CLEARLY MARK THE ABANDON SECTION OF PUBLIC ADDRESS SYSTEM.
52. PROVIDE A FIRE ALARM DOCUMENTATION CABINET PER NFPA72,7.7.
53. FIRE SAFETY DURING DEMOLITION AND CONSTRUCTION SHALL COMPLY WITH CBC CHAPTER 33 AND CFC CHAPTER 33.
54. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE DSA APRROVED DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATION CHANGE DOCUMENT, OR A SEPERATE SET OF PLANS AND SPECIFICATIONS,DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK (CAC 4-317(C)).
55. CHANGES TO THE DIVISION OF THE STATE ARCHITECT APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENTS FOR CHANGES TO THE STRUCTURAL, ACCESSIBILITY OR FIRE -SAFETY PORTIONS OF THE PROJECT. CHANGES SHALL BE SUBMITTED TO AND APPROVED BY DSA PRIOR TO COMMENCEMENT OF THE WORK SHOWN THEREON CAC 4-338(C)).
56. PROJECT INSPECTOR TO APPROVE SYSTEM VOICE-EVACUATION INTELLIGIBILITY DURING TESTING PHASE.
57. CONTRACTOR SHALL PROVIDE ALL CABLING, RELAYS, MOUNTING HARDWARE AND ANY OTHER DEVICES (FIRE ALARM SYSTEM DEVICES) TO PROVIDE A FULLY FUNCTIONING FIRE ALARM OVERRIDE SYSTEM. WHEN FIRE ALARM CEASES, EACH LOCAL SOUND SYSTEM SHALL AUTOMATICALLY REVERT TO NORMAL OPERATION. FIRE ALARM MODULES AND CABLING BY FIRE ALARM CONTRACTOR.
58. FOR ALL HEAT DETECTORS THAT ARE LOCATED ABOVE CEILING/ATTIC SPACES, CONTRACTOR SHALL PROVIDE STICKER AND LABEL "HD" AT THE REFLECTED CEILING DIRECTLY BELOW THE DEVICE TO INDICATE LOCATION.
59. NOTIFICATION APPLIANCES USED FOR SIGNALING OTHER THAN FIRE SHALL NOT HAVE THE WORD "FIRE" OR ANY FIRE SYMBOL, IN ANY FORM (I.E., STAMPED, IMPRINTED, ETC.) ON THE APPLIANCE VISIBLE TO THE PUBLIC. NOTIFICATION APPLIANCES WITH MULTIPLE VISIBLE ELEMENTS SHALL BE PERMITTED TO HAVE FIRE MARKING ONLY ON THOSE VISIBLE ELEMENTS USED FOR FIRE SIGNALING. PER NFPA 72, 18.3.3.2/ NFPA 720, 6.3.3.2/ IR 9-2, 5.4.4 & 5.4.5.
60. AUTOMATIC FIRE ALARM SYSTEMS SHALL BE MONITORED AND SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX (CENTRAL STATION) OR UUJS (REMOTE & PROPRIETARY) BY THE UNDERWRITERS LABORATORY INC. (UL) OR OTHER APPROVED LISTING AND TESTING LABORATORY OR SHALL COMPLY WITH THE REQUIREMENTS OF FM 3011. TERMINATION OF MONITORING SERVICES SHALL BE IN ACCORDANCE WITH SECTION 907.6.6.2.
61. THE NEW PROJECT SUBMITTAL TO INCLUDE DIRECTION THAT FIRE ALARM SYSTEM RECORD OF COMPLETION AND FIRE ALARM SYSTEM RECORD OF INSPECTION AND TESTING FORM THESE TWO DOCUMENTS FROM NFPA 72 ARE TO BE COMPLETED AND SUBMITTED PRIOR TO CLOSE OUT OF THE PROJECT. A COPY OF COMPLETED AND SIGNED FORM SHALL BE GIVEN TO THE ARCHITECT OR ENGINEER OF RECORD, THE PROJECT INSPECTOR, THE OWNER (SCHOOL DISTRICT) AND LOCAL FIRE AUTHORITY.
62. UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBERS SHALL BE CUT, DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DISTRICT STRUCTURAL ENGINEER FROM THE DIVISION OF THE STATE ARCHITECT.

ELEVATION MOUNTING DETAIL



NOTES:

THE ENTIRE LENS OF STROBE LIGHTS MUST BE BETWEEN 80" AND 96" ABOVE FLOOR FINISH (AFF)

IF CEILING HEIGHTS EXCEED 30 FEET, STROBE LIGHTS MUST BE SUSPENDED AT OR BELOW 30 FEET

MANUAL FIRE ALARM BOXES SHALL BE INSTALLED IN ACCORDANCE WITH SECTIONS 907.3.1 THROUGH 907.3.5

MANUAL FIRE ALARM BOXES SHALL BE LOCATED NOT MORE THAN 5 FEET FROM THE ENTRANCE TO EACH EXIT. ADDITIONAL MANUAL FIRE ALARM BOXES SHALL BE LOCATED SO THAT THE TRAVEL DISTANCE TO THE NEAREST BOX DOES NOT EXCEED 200 FEET.

THE HEIGHT OF THE MANUAL FIRE ALARM BOXES SHALL BE A MINIMUM OF 42 INCHES AND A MAXIMUM OF 48 INCHES, MEASURED VERTICALLY, FROM THE FLOOR LEVEL TO THE HIGHEST POINT OF THE ACTIVATING HANDLE OR LEVER OF THE BOX. MANUAL FIRE ALARM BOXES SHALL ALSO COMPLY WITH 2019 CBC SECTION 11B-309.4.

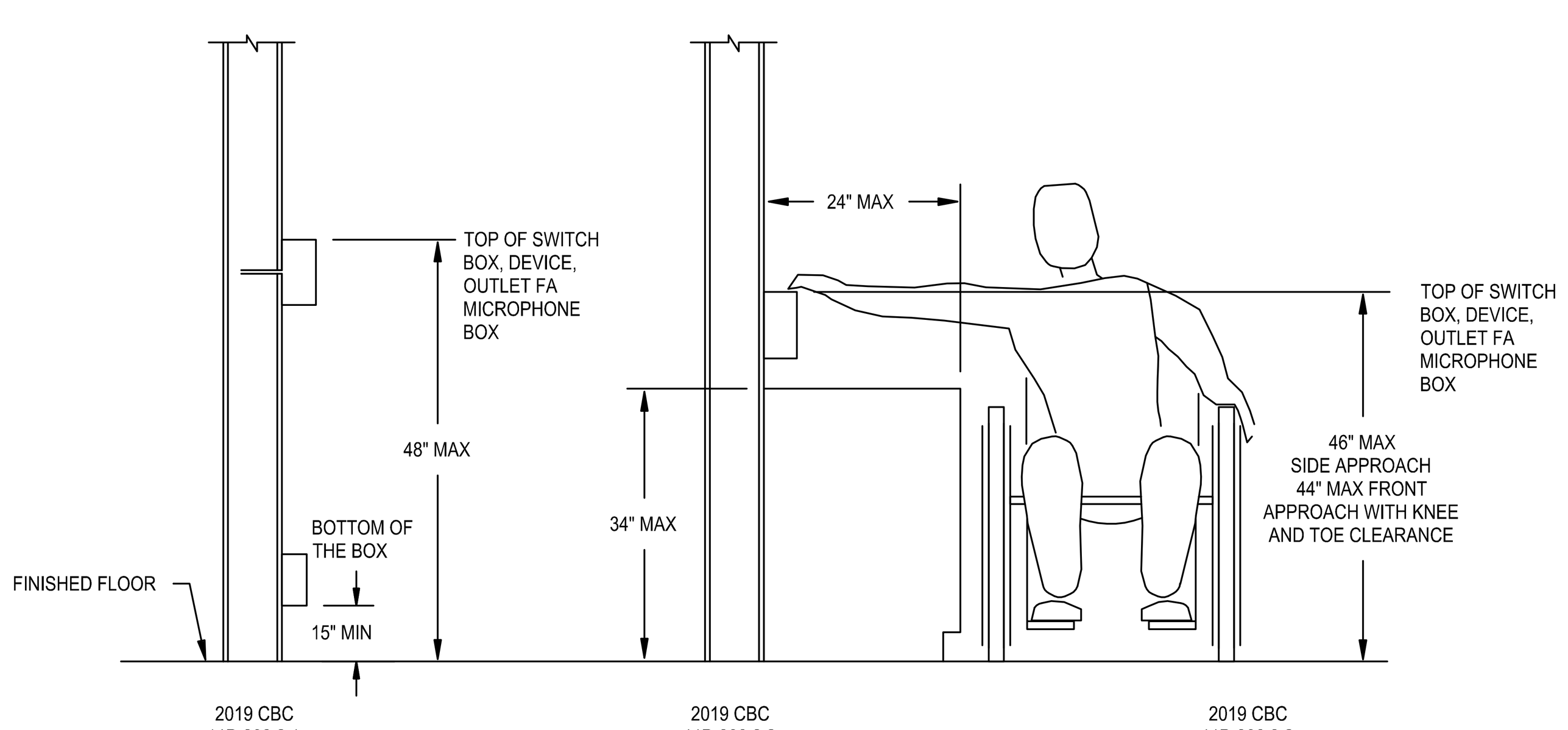
PER NFPA 72 CHAPTER A.17.7.4.1 DETECTORS SHOULD NOT BE LOCATED IN ADIRECT AIRFLOW OR CLOSER THAN 36 IN. (910 MM) FROM AN AIR SUPPLY DIFFUSER OR RETURN AIR OPENING. SUPPLY OR RETURN SOURCES LARGER THAN THOSE COMMONLY FOUND IN RESIDENTIAL AND SMALL COMMERCIAL ESTABLISHMENT CAN REQUIRE GREATER CLEARANCE TO SMOKE DETECTORS. SIMILARLY, SMOKE DETECTORS SHOULD BE LOCATED FARTHER AWAY FROM HIGH VELOCITY AIR SUPPLIES.

EXCEPTIONS: [DSA-AC] IN EXISTING BUILDINGS THERE IS NO REQUIREMENT TO RETROACTIVELY RELOCATE EXISTING MANUAL FIRE ALARM BOXES TO A MINIMUM OF 42 INCHES AND A MAXIMUM OF 48 INCHES FROM THE FLOOR LEVEL TO THE ACTIVATING HANDLE OR LEVER OF THE BOX.

SEQUENCE OF OPERATIONS

ACTION \ DEVICE	MANUAL PULL STATION	AREA SMOKE DETECTOR	HEAT DETECTOR	120VAC POWER FAILURE	SHORT CIRCUIT	GROUND FAULT	BATTERY FAILURE
SOUND ALARM AT "FACP"	**YES**	**YES**	**YES**	NO	NO	NO	NO
SOUND TROUBLE BUZZER AT "FACP"	NO	NO	NO	**YES**	**YES**	**YES**	**YES**
ANNUNCIATE AT "FACP" AND THE REMOTE ANNUNCIATOR (ALARM OR TROUBLE)	**YES**	**YES**	**YES**	**YES**	**YES**	**YES**	**YES**
ACTIVATE AUDIBLE / VISUAL ALARM SIGNAL THROUGHOUT BUILDING	**YES**	**YES**	**YES**	NO	NO	NO	NO
ACTIVATE SIGNAL FOR OFF-SITE MONITORING	**YES**	**YES**	**YES**	**YES**	**YES**	**YES**	**YES**
MUTE AUTONOMOUS LOCAL SOUND SYSTEM	**YES**	**YES**	**YES**	NO	NO	NO	NO

MOUNTING OVER OBSTRUCTION DETAIL



NOTES:

1. THIS DETAIL APPLIES TO MOUNTING OF ANY MECHANICAL AND ELECTRICAL DEVICE WHICH CONTAINS AN OPERABLE PART THAT IS ADJUSTABLE BY THE OCCUPANT. THIS DOES NOT APPLY TO SENSORS OR CONTROLS THAT ARE ONLY ADJUSTABLE THROUGH THE BUILDING AUTOMATION SYSTEM (IE: TEMPERATURE AND HUMIDITY SENSORS).
2. FORWARD OR FRONT APPROACH FOR DEVICES MOUNTED ABOVE COUNTERS ASSUMES THAT DIRECTLY BELOW THE DEVICE, THE COUNTER HAS A 30"MIN. WIDTH x27" HIGH x19" MIN. DEEP CLEAR OPENING. CBC SECTIONS 11B-306 & 11B-308.

WIRE SCHEDULE

WIRE DESIGNATION	WIRE IN CONDUIT	WIRE IN CONDUIT UNDERGROUND/WET LOC.	UNDERGROUND/WET WIRE DESIGNATION
INIT. LOOP Z	2 CONDUCTOR #16 FPL TWISTED/ SHIELDED WEST PENN #D991	2 CONDUCTOR #16 FPLP SHIELDED WEST PENN #AQ-294	INIT. LOOP Z
SBUS B	4 CONDUCTOR #18 TWISTED SHIELDED PAIR CABLE	4 CONDUCTOR #18 TWISTED SHIELDED PAIR CABLE	SBUS B
VBUS C	2 CONDUCTOR #18 TWISTED SHIELDED PAIR CABLE	2 CONDUCTOR #18 TWISTED SHIELDED PAIR CABLE	VBUS C
SPEAKER CKT. S	2 CONDUCTOR #14 THHN/THWN STRANDED	2 CONDUCTOR #14 THHN/THWN STRANDED	SPEAKER CKT. S
VISUAL CKT. V	2 CONDUCTOR #12 THHN/THWN STRANDED	2 CONDUCTOR #12 THHN/THWN STRANDED	VISUAL CKT. V
POWER CKT. P	2 CONDUCTOR #12 THHN/THWN STRANDED	2 CONDUCTOR #12 THHN/THWN STRANDED	POWER CKT. P

NOTE:

ALL WIRE MODEL NUMBERS ARE WEST PENN.
EQUIVALENT BY OTHER MANUFACTURER IS ACCEPTABLE.

FIRE ALARM REQUIREMENTS

THE CONTRACTOR SHALL PROVIDE AND SUBMIT THE FIRE ALARM SHOP DRAWINGS TO THE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION OF THE FIRE ALARM SYSTEM. THE SUBMITTAL SHALL CONTAIN THE FOLLOWING:

A. SHOP DRAWINGS: COMPLETE 1/8" SCALE FLOOR PLANS SHOWING ALL DEVICES, COMPONENTS, CONDUIT AND WIRING INDICATING A COMPLETE AND OPERABLE SYSTEM AS DESIGNED AND SPECIFIED. REPRODUCED COPIES OF BID SET FIRE ALARM PLANS ARE NOT ACCEPTABLE AS SHOP DRAWINGS. SHOP DRAWINGS MUST ALSO INDICATE DEVICE MOUNTING HEIGHTS, ROOM NAMES AND NUMBERS AND THE LOCATION OF ALL FIRE RATED WALLS.
B. ELECTRICAL CONTRACTOR'S AND FIRE ALARM SYSTEM INSTALLER'S NAME, ADDRESS, PHONE NUMBER AND C-10 LICENSE NUMBER.
C. LIST OF SYSTEM COMPONENTS, EQUIPMENT AND DEVICES, INCLUDING MANUFACTURERS' MODEL NUMBER(S) AND CALIFORNIA STATE FIRE MARSHALL LISTING NUMBERS.
D. ORIGINAL COPIERS OF MANUFACTURERS' SPECIFICATION SHEETS FOR ALL EQUIPMENT AND DEVICES INDICATED.
E. VOLTAGE DROP CALCULATIONS -- INCLUDE THE FOLLOWING INFORMATION FOR THE WORST CASE:
   1. POINT-TO-POINT OR OHMS LAW CALCULATIONS.
   2. IDENTIFICATION OF ZONE USED IN CALCULATIONS.
   3. VOLTAGE DROP PERCENT (NOT TO EXCEED MANUFACTURERS' REQUIREMENTS).
      a. NOTE: IF VOLTAGE DROP EXCEEDS 10%, INDICATE MANUFACTURERS' LISTED OPERATING RANGE(S) OR EQUIPMENT AND DEVICES.
   4. NOTE CIRCUIT NUMBER FOR WORST CASE CALCULATION.
F. BATTERY TYPE(S), AMPS HOURS AND LOAD CALCULATIONS -- INCLUDE THE FOLLOWING INFORMATION:
   1. NORMAL OPERATION: 100% OF APPLICABLE DEVICES FOR 24 HOURS = CONTROL PANEL AMPS PLUS LIST OF AMPS PER DEVICE WHICH DRAW POWER FROM THE PANEL DURING STANDBY POWER -- I.E.:
      a. ZONE MODULES
      b. DETECTORS
      c. OTHER DEVICES (IDENTIFY)
   2. ALARM CONDITION: 100% OF APPLICABLE DEVICES FOR 15 MINUTES = CONTROL PANEL AMPS PLUS LIST OF AMPS PER DEVICE WHICH DRAW POWER FROM THE PANEL DURING STANDBY POWER -- I.E.:
      a. ZONE MODULES
      b. SIGNAL MODULES
      c. DETECTORS
      d. SIGNAL DEVICES
      e. ANNUNCIATOR
      f. OTHER DEVICES (IDENTIFY)
   3. NORMAL OPERATION + ALARM OPERATION
      a. TOTAL AMP HOURS REQUIRED.
      b. TOTAL AMP HOURS PROVIDED.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121814 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/11/2023

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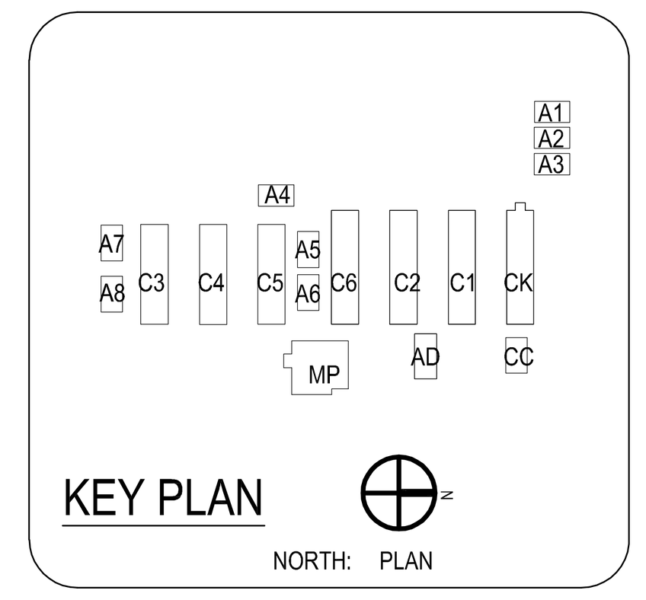
DSA SUBMITTAL

DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43



KEY PLAN
NORTH: PLAN

Consultant

REGISTERED PROFESSIONAL ENGINEER
RONALD C DELA CRUZ
No. E 23576
Exp. 09-30-2023
ELECTRICAL
STATE OF CALIFORNIA

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
12-28-2022	220307

REVISIONS

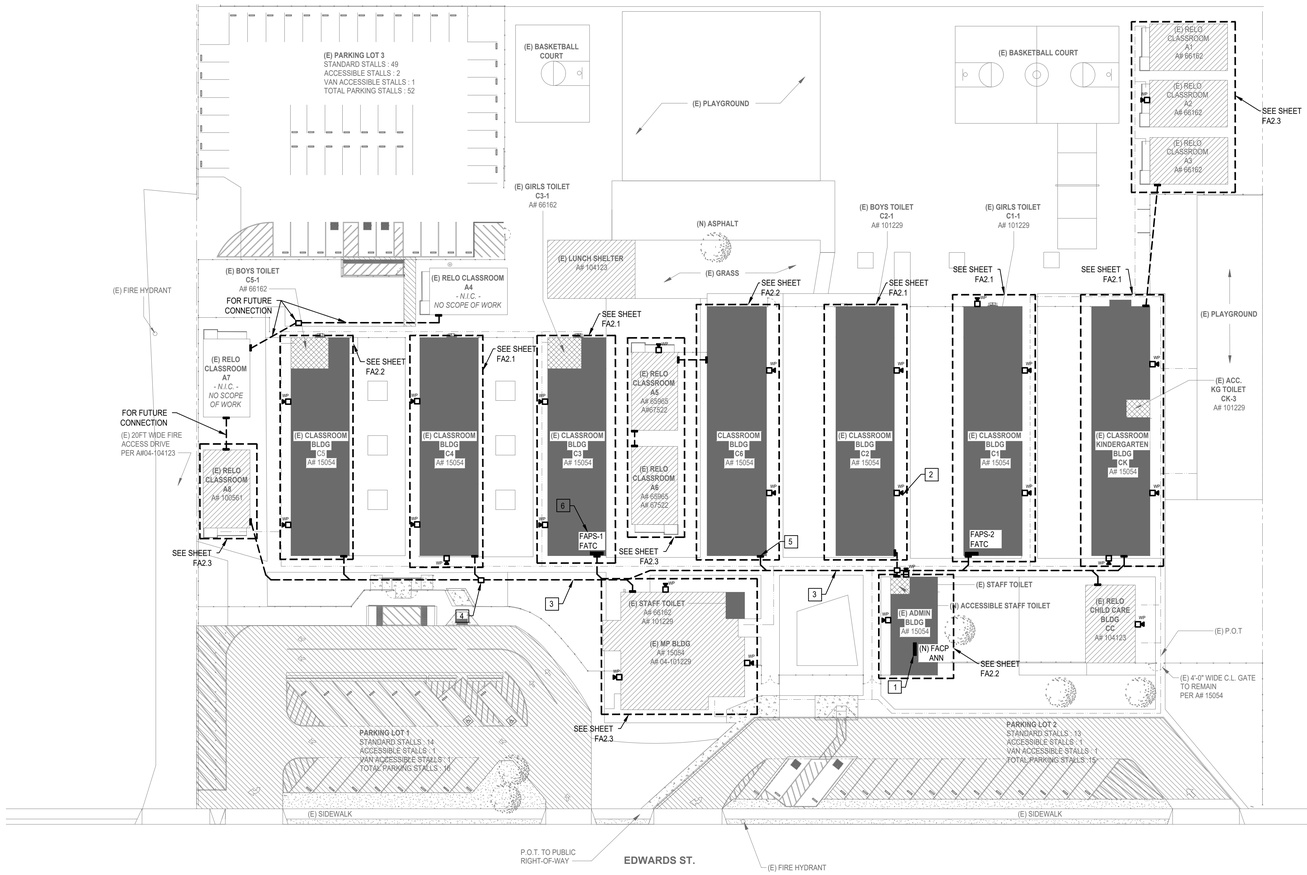
No.	Description	Date

DSA SUBMITTAL

FIRE ALARM SYMBOLS, LEGENDS & GENERAL NOTES

FA0.0

FILE PATH: Z:\Projects\...



NORTH

1 FIRE ALARM SITE PLAN
1" = 30'-0"

GENERAL NOTES

1. ALL SPEAKER TAP SETTING SHALL BE SET AT 1/2 WATT FOR INTERIOR SPEAKER AND 2 WATT FOR EXTERIOR SPEAKERS UNLESS NOTED OTHERWISE (U.N.O.)
2. RUN FIRE ALARM CABLES IN CONDUIT CONCEALED IN WALLS AND CEILING WHEN POSSIBLE. EXPOSED CONDUITS ARE NOT ACCEPTABLE.

KEY NOTES

1. NEW VOICE EVAC FIRE ALARM CONTROL PANEL AS SHOWN. FIELD VERIFY THE EXACT LOCATION.
2. PROVIDE WEATHERPROOF WALL MOUNTED SPEAKER AS SHOWN (TYPICAL). SEE DETAIL 6/ SHEET FA6.1.
3. PROVIDE (2) 2" UNDERGROUND CONDUIT (PVC. SCHEDULE 40, 24" BELOW GRADE),ONE CONDUIT IS FOR SPARE AND FIRE ALARM. CABLE AS INDICATED. BACK FILL TO MATCH EXISTING SURFACES. RUN CONDUIT IN DIRT/PLANNER AREA AS MUCH AS POSSIBLE.
4. PROVIDE CONCRETE UNDERGROUND PULL BOXES AS 11" X 17" X 18" DEEP ON A 6" DEEP GRAVEL BASE.
5. PROVIDE NEMA 3R WEATHERPROOF PULLBOX 18"X18"X6" FOR FIRE-ALARM. SEE DETAIL 3/ SHEET FA6.1.
6. NEW FIRE ALARM POWER SUPPLY AND TERMINAL CABINET AS SHOWN. SEE DETAIL 9/ SHEET FA6.1.

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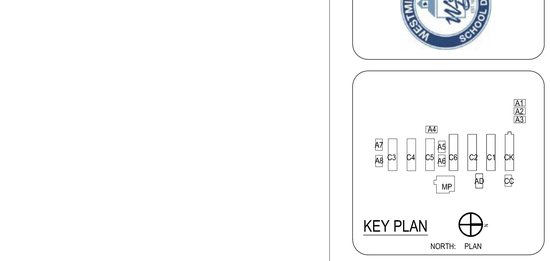
FINLEY ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
13521 Edwards St.
Westminster, CA 92683

DSA SUBMITTAL

DSA FILE NO.: 30-43
DSA APPL NO.: 04-121814



Consultant

REGISTERED PROFESSIONAL ENGINEER
RONALD C. DELA CRUZ
No. E 23576
Exp. 09-30-2023
ELECTRICAL
STATE OF CALIFORNIA

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
12-28-2022	220307

REVISIONS

No.	Description	Date

DSA SUBMITTAL

FIRE ALARM SITE PLAN

FA1.0

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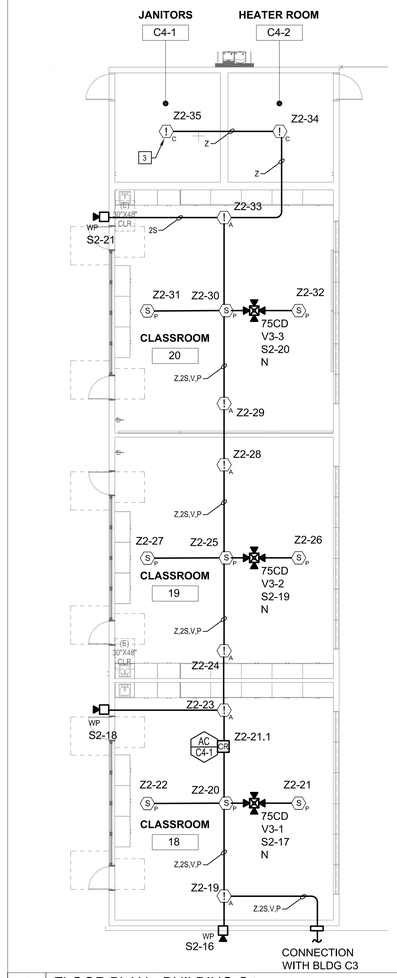
0" 1"

GENERAL NOTES

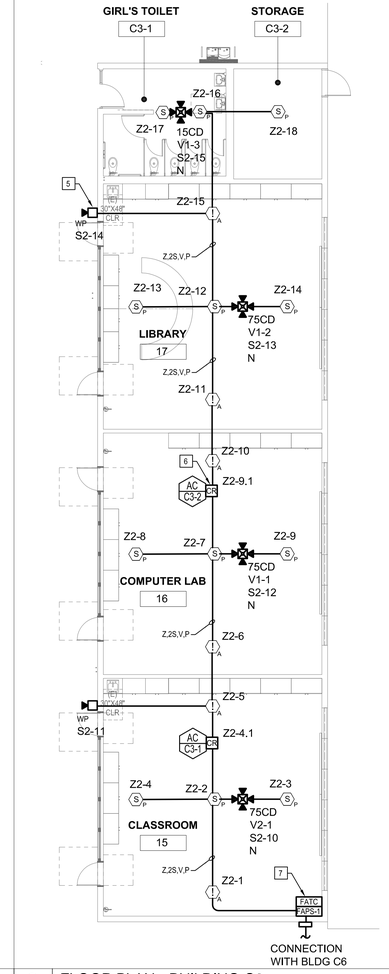
1. ALL SPEAKER TAP SETTING SHALL BE SET AT 1/2 WATT FOR INTERIOR SPEAKER AND 2 WATT FOR EXTERIOR SPEAKERS UNLESS NOTED OTHERWISE (U.N.O.)
2. PROVIDE 24 VDC POWER FROM FACP TO ALL CO DETECTOR BASES.
3. RUN FIRE ALARM CABLES IN CONDUIT CONCEALED IN WALLS AND CEILING WHEN POSSIBLE. EXPOSED CONDUITS ARE NOT ACCEPTABLE.
4. SMOKE ALARMS AND SMOKE DETECTORS SHALL NOT BE INSTALLED WITHIN 36 IN. (910 MM) HORIZONTAL PATH FROM THE SUPPLY REGISTERS OF A FORCED AIR HEATING OR COOLING SYSTEM AND SHALL BE INSTALLED OUTSIDE OF THE DIRECT AIRFLOW FROM THOSE REGISTERS PER CBC 907.2.11.8.
5. DEMOLISH AND REMOVE ALL THE EXISTING FIRE ALARM DEVICES WHETHER SHOWN ON THE PLAN OR NOT AND REPLACE WITH BLANK COVER PLATES IF NECESSARY. DISCONNECT AND REMOVE ALL THE EXISTING CABLES BACK TO CONTROL PANEL.
6. EXISTING FIRE ALARM SYSTEM SHALL BE OPERTIONAL UNTIL NEW SYSTEMS ARE FULLY FUNCTIONAL.
7. FOR ALL HEAT DETECTORS THAT ARE LOCATED ABOVE CEILING/ATTIC SPACES, CONTRACTOR SHALL PROVIDE STICKER AND LABEL "HD" AT THE REFLECTED CEILING DIRECTLY BELOW THE DEVICE TO INDICATE LOCATION.
8. ELECTRICAL CONTRACTOR SHALL FURNISH ACCESS PANELS TO AREAS THAT REQUIRE ACCESS FOR ATTIC HEAT DETECTOR, SERVICING, TROUBLESHOOTING, ETC.

KEY NOTES

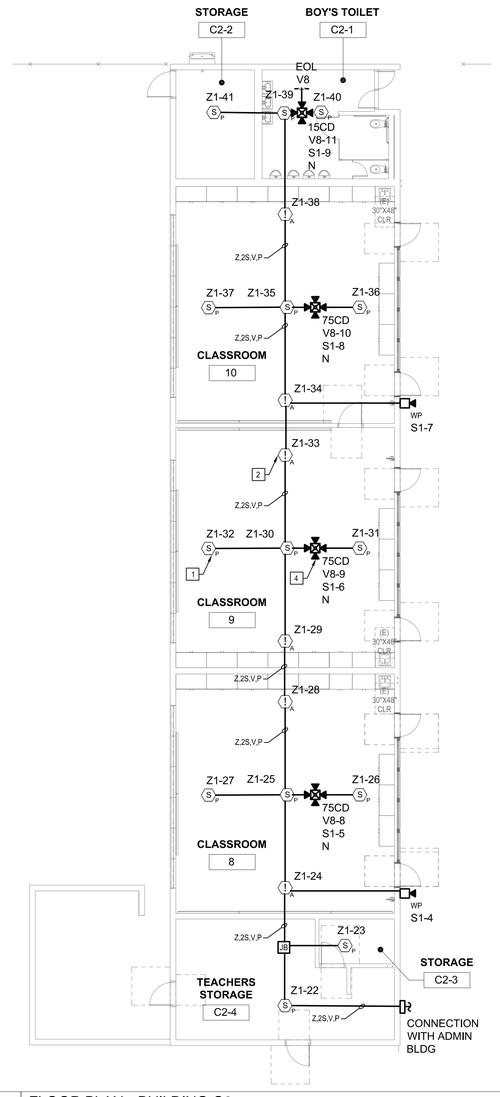
1. PROVIDE FIRE ALARM ADDRESSABLE SMOKE DETECTOR AS SHOWN (TYP).
2. PROVIDE FIRE ALARM ADDRESSABLE ATTIC HEAT DETECTOR AS SHOWN (TYP).
3. PROVIDE FIRE ALARM ADDRESSABLE CEILING MOUNTED HEAT DETECTOR AS SHOWN.
4. PROVIDE FIRE ALARM CEILING MOUNTED SPEAKER STROBE AS SHOWN (TYP).
5. PROVIDE FIRE ALARM WEATHERPROOF SPEAKER AS SHOWN (TYP).
6. PROVIDE FIRE ALARM CONTROL RELAY/MULTI VOLTAGE RELAYS TO SHUT DOWN THE MECHANICAL UNITS LOCATED AT THE ROOF PER 2019 CMC (CALIFORNIA MECHANICAL CODE), SECTION 608 (TYP). CONTRACTOR TO FIELD VERIFY THE EXACT UNIT LOCATION.
7. PROVIDE NEW FIRE ALARM POWER SUPPLY AND TERMINAL CABINET AS SHOWN.



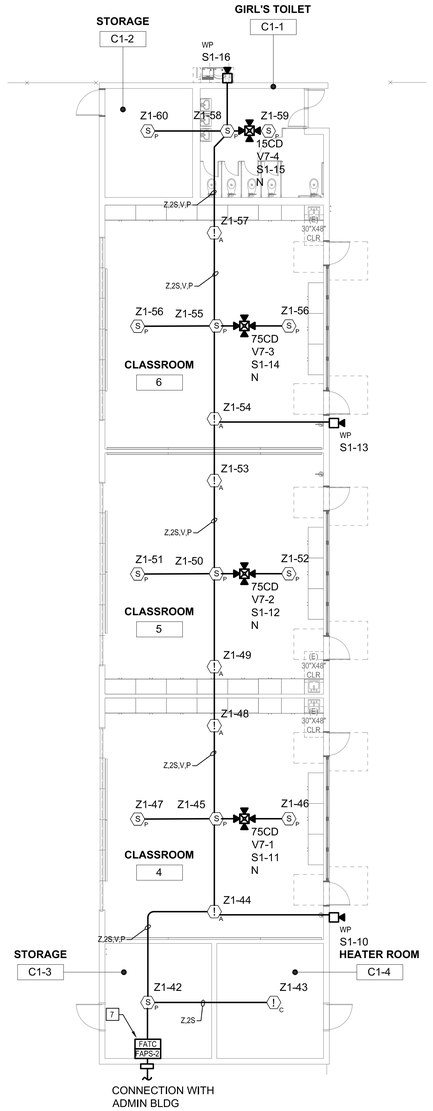
4 FLOOR PLAN - BUILDING C4
1/8" = 1'-0"



3 FLOOR PLAN - BUILDING C3
1/8" = 1'-0"



2 FLOOR PLAN - BUILDING C2
1/8" = 1'-0"



1 FLOOR PLAN - BUILDING C1
1/8" = 1'-0"

NORTH

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DSA SUBMITTAL

DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43

WESTMINSTER SCHOOL DISTRICT

KEY PLAN
NORTH: PLAN

Consultant
REGISTERED PROFESSIONAL ENGINEER RONALD C DELA CRUZ No. E 23676 Exp. 09-30-2023 ELECTRICAL STATE OF CALIFORNIA

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT
DATE 12-28-2022
PROJECT NUMBER 220307

REVISIONS

No.	Description	Date

DSA SUBMITTAL

FIRE ALARM FLOOR PLANS

FA2.1

0" 1"

GENERAL NOTES

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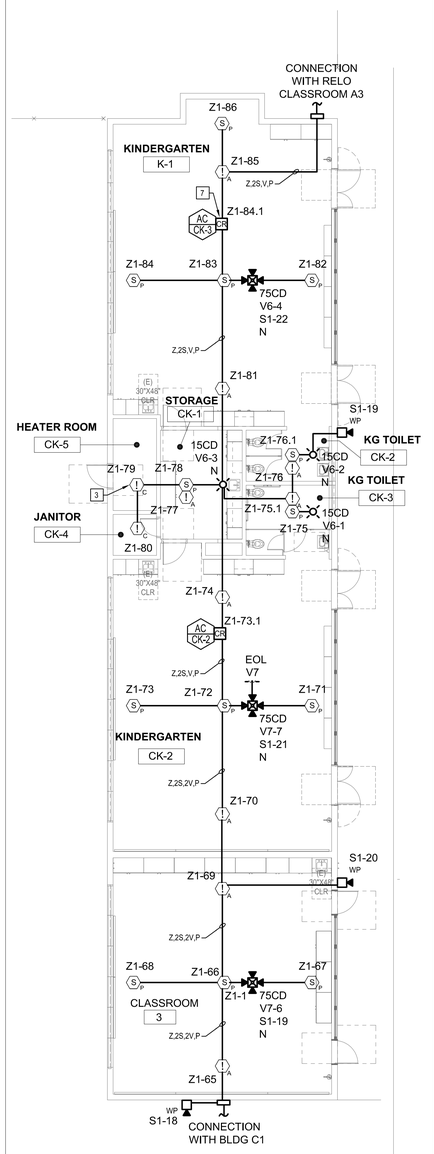
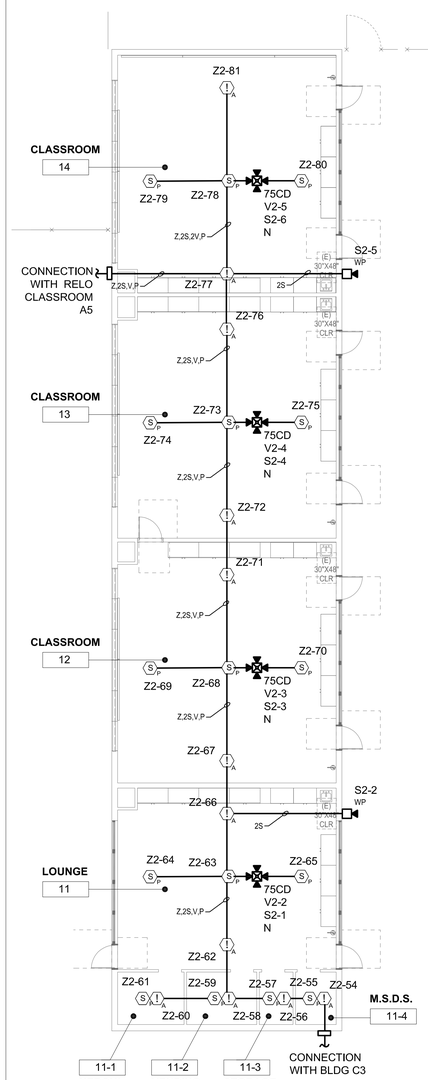
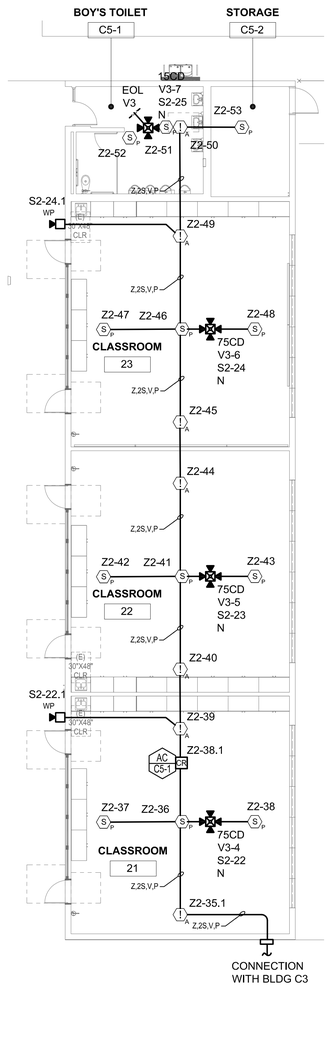
8. NEW FIRE ALARM REMOTE ANNUNCIATOR AS SHOWN AND FIRE ALARM MANUAL PULL STATION RIGHT NEXT TO THE ANNUNCIATOR.
9. PROVIDE NEW VOICE EVAC FIRE ALARM CONTROL PANEL AS SHOWN.
10. LOCATION OF EXISTING FIRE ALARM CONTROL PANEL (A#04-100880). STAFF TOILET 2 AD9 REMODEL TO BE DONE AT THE LAST PHASE OF CONSTRUCTION TO ALLOW EXISTING FACP TO BE OPERATIONAL UNTIL REPLACED WITH THE NEW FACP.



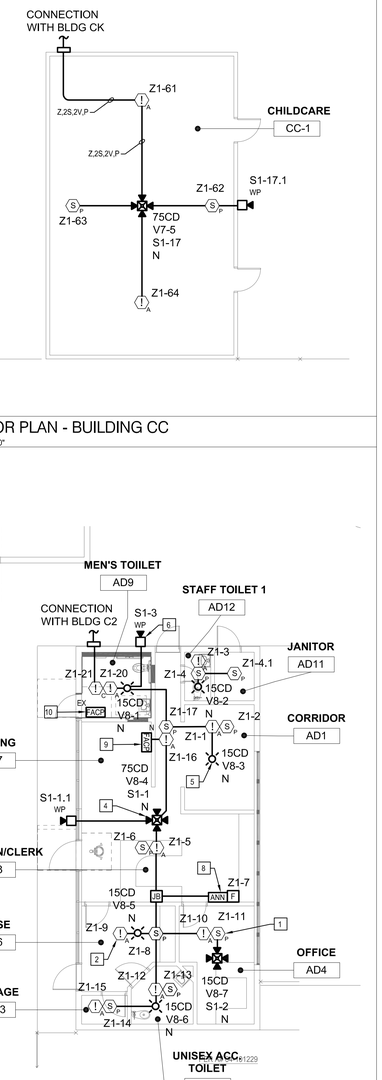
4 FLOOR PLAN - BUILDING CK
1/8" = 1'-0"



3 FLOOR PLAN - BUILDING C6
1/8" = 1'-0"



2 FLOOR PLAN - BUILDING C5
1/8" = 1'-0"



5 FLOOR PLAN - BUILDING CC
1/8" = 1'-0"

1 FLOOR PLAN - ADMIN BLDG
1/8" = 1'-0"

NORTH

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Westminster, CA 92683

DSA SUBMITTAL

DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43

WESTMINSTER SCHOOL DISTRICT

KEY PLAN
NORTH: PLAN

Consultant
REGISTERED PROFESSIONAL ENGINEER BRIAN C DE LA CRUZ No. E 23578 Exp. 09-30-2023 ELECTRICAL STATE OF CALIFORNIA

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT
DATE 12-28-2022
PROJECT NUMBER 220307

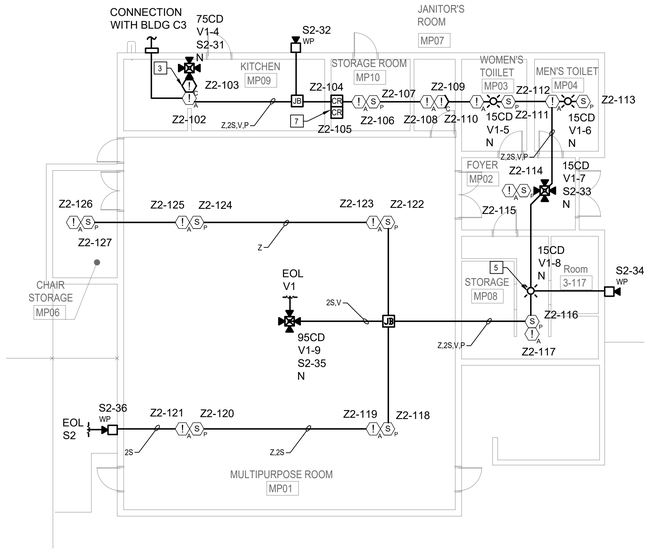
REVISIONS

No.	Description	Date

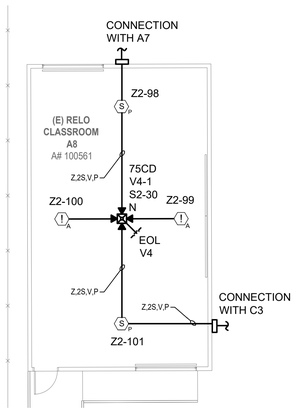
DSA SUBMITTAL

FIRE ALARM FLOOR PLANS

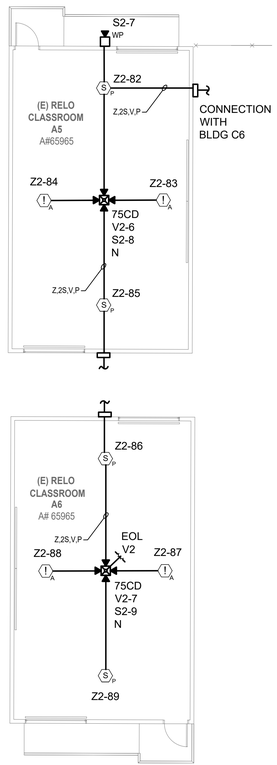
FA2.2



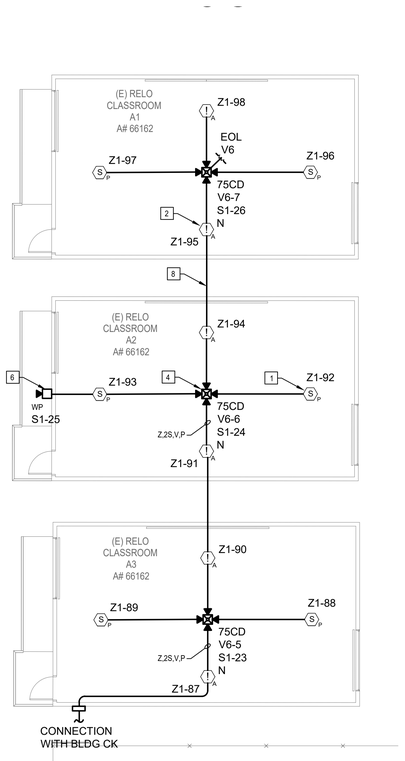
4 MPR BLDG
1/8" = 1'-0"



3 FLOOR PLAN - RELO CLASSROOMS A8
1/8" = 1'-0"



2 FLOOR PLAN - RELO CLASSROOMS A5, A6
1/8" = 1'-0"



1 FLOOR PLAN - RELO CLASSROOMS A1, A2, A3
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8. PROVIDE 2" CONDUIT FLEXIBLE LIQUID TIGHT SLEEVE AT ATTIC SPACE HEIGHT (TYP).

NORTH

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DSA APPL NO.: 04-121814 DSA FILE NO.: 30-43

KEY PLAN
NORTH: PLAN

Consultant

REGISTERED PROFESSIONAL ENGINEER
RONALD C. DELA CRUZ
No. E 23578
Exp. 09-30-2023
ELECTRICAL
STATE OF CALIFORNIA

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
12-28-2022	220307

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FIRE ALARM FLOOR PLANS

FA2.3

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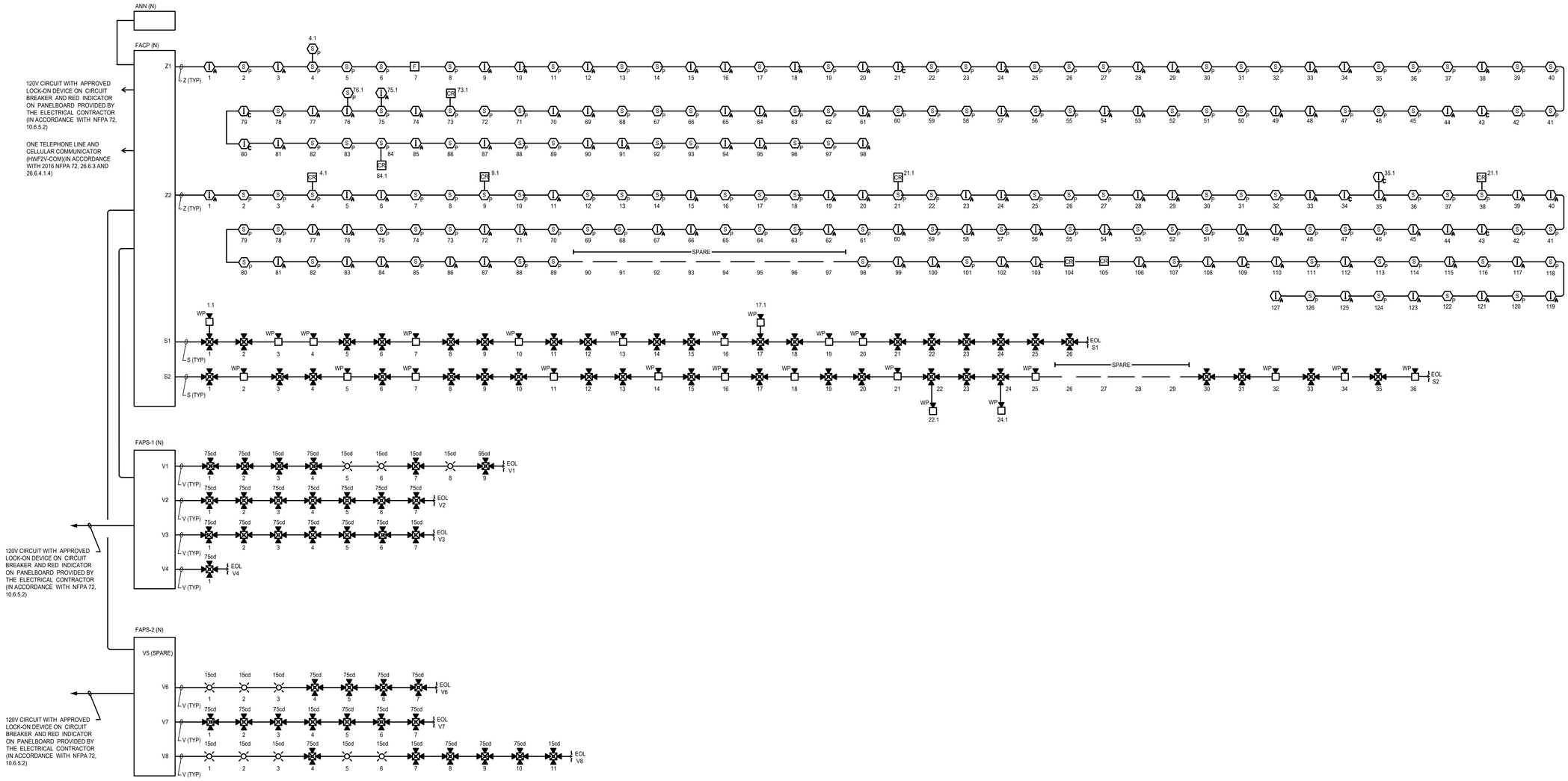

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WESTMINSTER SCHOOL DISTRICT

A1 A2 A3 A4 A5 A6 A7 A8 C3 C4 C5 C6 C2 C1 CK MP AD CC

KEY PLAN NORTH: PLAN

Consultant

REGISTERED PROFESSIONAL ENGINEER RONALD C. DELA CRUZ No. E 23576 Exp. 09-30-2023 ELECTRICAL STATE OF CALIFORNIA

Architect

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DSA SUBMITTAL

FIRE ALARM RISER DIAGRAM

FA4.1

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FACP BATTERY CALCULATION SHEET

FACP WITH VOICE EVAC
LOCATION: ADMIN

QUANTITY		UNIT STANDBY CURRENT(A)	TOTAL STANDBY CURRENT(A)	UNIT ALARM CURRENT(A)	TOTAL ALARM CURRENT(A)
1	MAIN BOARD	0.08100	0.08100	0.15000	0.15000
1	SUPPLEMENT BOARD	0.08100	0.08100	0.15000	0.15000
1	INTERFACE MAIN BOARD	0.05000	0.05000	0.09100	0.09100
1	INTERFACE SUPPLEMENT BOARD	0.05000	0.05000	0.09100	0.09100
1	120V POWER SUPPLY SUB-ASSEMPLY	0.05000	0.05000	0.05000	0.05000
1	DIGITAL COMMUNICATOR (DACT-E3)	0.01800	0.01800	0.01800	0.01800
1	ANNUNCIATOR	0.20000	0.20000	0.20000	0.20000
1	AMPLIFIER KIT	0.10300	0.10300	0.14000	0.14000
1	FIRE PHONE CARD	0.05300	0.05300	0.07500	0.07500
1	AMPLIFIER CARD	0.05200	0.05200	0.31500	0.31500
122	SMOKE DETECTOR	0.00020	0.02428	0.00200	0.24400
96	HEAT DETECTOR	0.00020	0.01910	0.00200	0.19200
1	PULL STATION	0.00000	0.00000	0.00300	0.00300
8	RELAY MODULE	0.00000	0.00000	0.00650	0.05200
	SUB TOTAL		0.781		1.771
	STANDBY CURRENT x 24 Hrs. (AH)		18.753 AH		
	ALARM CURRENT x 15 MINUTES (AH)		0.443 AH		
	TOTAL (AH)		19.196 AH		
	25% DERATING		4.799 AH		
	TOTAL DEMAND (AH)		23.995 AH		
	BATTERY REQUIRED		55 AH		

BATTERY CAPACITY CALCULATION SHEET

FAPS-1
LOCATION: C3

QUANTITY	Description	Unit Standby Current(A)	Total Standby Current(A)	Unit Alarm Current(A)	Total Alarm Current(A)
1	NAC TRIP	0.075	0.075	0.175	0.175
3	15cd ceiling strobes	0.000	0.000	0.071	0.213
3	15cd ceiling speaker/strobe	0.000	0.000	0.071	0.213
19	75cd ceiling speaker/strobe	0.000	0.000	0.153	2.907
1	95cd ceiling speaker/strobe	0.000	0.000	0.176	0.176
	Sub Total		0.075		3.684
	A - Battery Backup - Standby (Hour)	24			
	B - Battery Backup (minutes)	15			
	C - Allowable Error (%)	25			
	D - Total Standby Backup (Amp-Hour)	1.800			
	E - Total Alarm Backup (Amp-Hour)	0.921			
	F - Allowable Error (C x (D + E))	0.680			
	Total Amp-Hour Required (D + E + F)	3.401			
	Battery Submitted	7 Amp-Hour			

BATTERY CAPACITY CALCULATION SHEET

FAPS-2
LOCATION: C1

QUANTITY	Description	Unit Standby Current(A)	Total Standby Current(A)	Unit Alarm Current(A)	Total Alarm Current(A)
1	NAC TRIP	0.075	0.075	0.175	0.175
9	15cd ceiling strobes	0.000	0.000	0.060	0.540
3	15cd ceiling speaker/strobe	0.000	0.000	0.071	0.213
12	75cd ceiling speaker/strobe	0.000	0.000	0.153	1.836
	Sub Total		0.075		2.764
	A - Battery Backup - Standby (Hour)	24			
	B - Battery Backup (minutes)	15			
	C - Allowable Error (%)	25			
	D - Total Standby Backup (Amp-Hour)	1.800			
	E - Total Alarm Backup (Amp-Hour)	0.691			
	F - Allowable Error (C x (D + E))	0.623			
	Total Amp-Hour Required (D + E + F)	3.114			
	Battery Submitted	7 Amp-Hour			

STROBES WORST CASE VOLTAGE DROP

PANEL NAME	CIRCUIT NUMBER	CEILING STROBE 15cd 0.071	30cd 0.096	75cd 0.153	95cd 0.176	CEILING SPEAKER/STROBE 15cd 0.071	30cd 0.096	75cd 0.153	95cd 0.176	TOTAL CURRENT (AMPS)	TOTAL DISTANCE (FEET)	TOTAL VOLTAGE DROP (%)	TOTAL DEVICES
FAPS-1	V1	3				2		3	1	0.990	425	5.80%	9
	V2							7		1.071	510	7.53%	7
	V3					1		6		0.989	550	7.50%	7
	V4							1		0.153	200	0.42%	1
TOTAL		3	0	0	0	3	0	17	1				
FAPS-2	V5 (spare)									0.000	0	0.00%	0
	V6	4						4		0.896	377	4.66%	8
	V7					1		6		0.989	520	7.09%	7
	V8	5				2		4		1.109	410	6.27%	11
TOTAL		9	0	0	0	3	0	14	0				

BATTERY CALCULATION SHEET

AMP
LOCATION: ADMIN. BUILDING

QUANTITY		UNIT STANDBY CURRENT(A)	TOTAL STANDBY CURRENT(A)	UNIT ALARM CURRENT(A)	TOTAL ALARM CURRENT(A)
1	50 WATT AMPLIFIER	0.110	0.110	0.5810	0.5810
38	SPEAKER (1/2 W)	0.000	0.000	0.0071	0.2698
24	WP SPEAKER (2W)	0.000	0.000	0.0283	0.6792
	SUB TOTAL		0.110		1.530
	STANDBY CURRENT x 24 Hrs. (AH)		2.640 AH		
	ALARM CURRENT x 15 MINUTES (AH)		0.383 AH		
	TOTAL (AH)		3.023 AH		
	25% DERATING		0.756 AH		
	TOTAL DEMAND (AH)		3.778 AH		
	BATTERY REQUIRED		7 AH		

SPEAKER CIRCUIT LOAD CALCULATION

MFG. REC. MAXIMUM LOSS IS: -0.5dB

SPEAKER CIRCUIT DESCRIPTION		PANEL CIRCUIT NUMBER	WIRE GAUGE (18, 16,14 12)	CIRCUIT VOLTAGE (25 OR 70 VRMS)	APPLIANCES QUANTITIES / TAP VALUES SPEAKER TAPPED AT 0.25 WATTS	SPEAKER TAPPED AT 0.5 WATTS	SPEAKER TAPPED AT 1 WATTS	SPEAKER TAPPED AT 2 WATTS	TOTAL CIRCUIT LOAD (WATT)	ESTIMATED CIRCUIT LENGTH (FEET)	ACTUAL WIRE/LOSS (dB)	MAXIMUM ALLOWABLE CKT, LENGTH (FEET)	TOTAL CIRCUIT RESISTANCE (OHMS)
AMPLIFIER#	CIRCUIT LOCATION												
AMP	ADMIN,C2,C1,CK,PORTABLE,A1-3	S1	14 AWG	70		18		10	29.00	900	-0.25	1,630	4.64
	C6,C3,C4,C5,A(5,6,8)	S2	14 AWG	70		20		14	38.00	1000	-0.36	1,260	5.15
								TOTAL	67.00				

1 FIRE ALARM VOLTAGE DROP AND BATTERY CALCULATIONS
NOT TO SCALE

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REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
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FINLEY ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
13521 Edwards St.
Westminster, CA 92683

DSA SUBMITTAL

DSA FILE NO.: 30-43
DSA APPL NO.: 04-121814

WESTMINSTER SCHOOL DISTRICT

A1 A2 A3 A4 A7 A8 C3 C4 C5 A5 A6 C6 C2 C1 CK A9 MP C8

KEY PLAN
NORTH: PLAN

Consultant
REGISTERED PROFESSIONAL ENGINEER RONALD C. DELA CRUZ No. E 23578 Exp. 09-30-2023 ELECTRICAL STATE OF CALIFORNIA

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT
DATE 12-28-2022
PROJECT NUMBER 220307

REVISIONS

No.	Description	Date

DSA SUBMITTAL

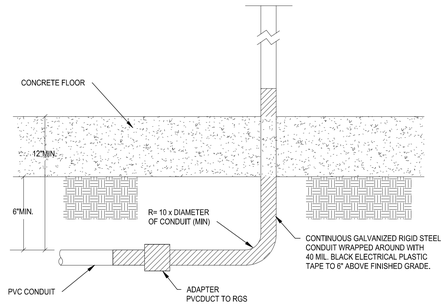
FIRE ALARM CALCULATIONS

FA5.1

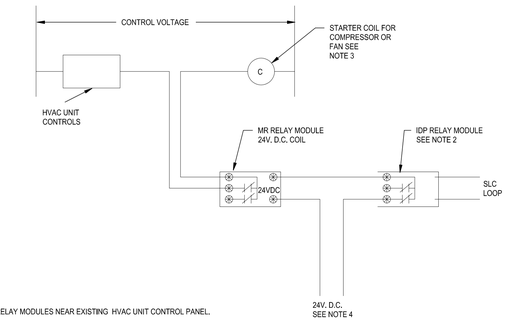
0" 1"

9 NOT USED

8 CONDUIT RISER DETAIL
NOT TO SCALE

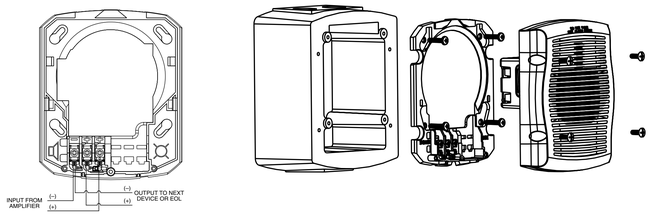


7 HVAC UNIT SHUT-DOWN DETAIL
NOT TO SCALE



NOTES:

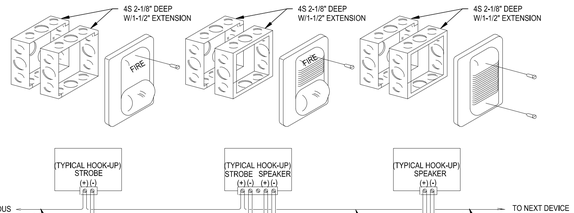
1. LOCATE NEW F.A. RELAY MODULES NEAR EXISTING HVAC UNIT CONTROL PANEL.
2. IDP RELAY IS ACTIVATED BY THE AREA SMOKE/HEAT DETECTORS VIA SLC LOOP.
3. VERIFY NUMBER OF STARTER COILS AT EACH HVAC UNIT. SOME UNITS REQUIRE 2 OR MORE RELAYS FOR SHUTDOWN OF COMPRESSORS AND FANS.
4. PROVIDE 24V. D.C. SOURCE (LOW VOLTAGE TRANSFORMER) FROM POWER SUPPLY UNIT.
5. A LISTED RELAY TO THE FIRE ALARM SYSTEM SHALL BE LOCATED WITHIN 3 FEET OF THE CONTROLLED CIRCUIT PER 2010 NFPA 6.16.2.2.



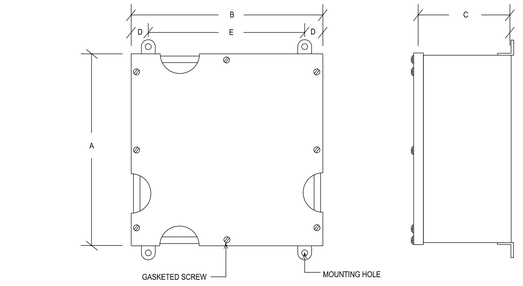
* PER UNIT MAXIMUM WEIGHT APPROXIMATELY 1.8 LBS. THIS WEIGHT IS SUBJECT TO VARY DEPENDING ON THE MODEL NUMBER AND MANUFACTURER.

6 TYPICAL OUTDOOR SPEAKER DETAIL
NOT TO SCALE

5 SMOKE/HEAT DETECTOR DETAIL
NOT TO SCALE

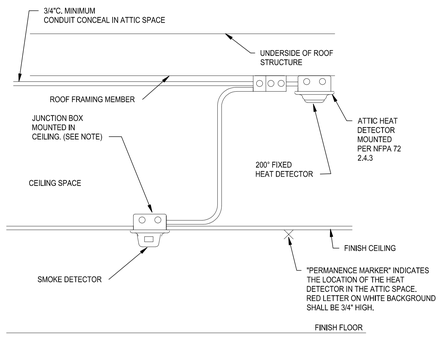


4 SPEAKER/STROBE DETAIL
NOT TO SCALE



HEIGHT (A) X WIDTH (B) X DEPTH (C)	D	E
18" X 18" X 6"	1"	10"

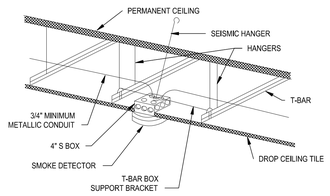
3 TYPICAL PULL BOX DETAIL
NOT TO SCALE

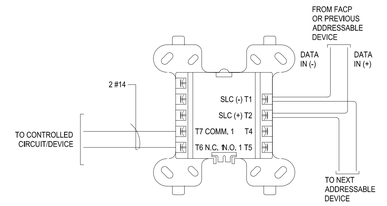


NOTE:

MOUNT MONITOR MODULE INSIDE BOX FOR THE HEAT DETECTOR. SEE WIRING DETAIL ON THIS SHEET.

2 DROP CEILING DEVICE INSTALLATION DETAIL
NOT TO SCALE





1 RELAY MODULE DETAIL
NOT TO SCALE

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WESTMINSTER SCHOOL DISTRICT

KEY PLAN NORTH: PLAN

Consultant

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT

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No.	Description	Date

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FIRE ALARM DETAILS

FA6.1