LYDIKSEN ELEMENTARY SCHOOL MODERNIZATION

7700 Highland Oaks Dr, Pleasanton, CA 94588

PLEASANTON UNIFIED SCHOOL DISTRICT

CONSTRUCTION DOCUMENTS

DSA FILE NUMBER 1-32
DSA APPLICATION NUMBER 01-119816
PTN 75101-101

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119816 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 02/25/2022

aedis architects
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387 S. 1st Street, Suite 300
San Jose, CA 95113
tel: (408)-300-5160
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ABBREVIATIONS

&	AND	MAX.	MAXIMUM
@	AT	M.B.	MACHINE BOLT
A.B.	ANCHOR BOLT	MECH.	MECHANICAL
ABV.	ABOVE	MFR.	MANUFACTURER
A.C.	ASPHALTIC CONCRETE	M.H.	MANHOLE
ACT	ACOUSTIC TILE	MIN.	MINIMUM
ADJ.	ADJUSTABLE	MIR.	MIRROR
A.F.F.	ABOVE FINISHED FLOOR	MISC.	MISCELLANEOUS
ALUM.	ALUMINUM	M.O.	MASONRY OPENING
A.P.	ACCESS PANEL	M.S.	MACHINE SCREW
APPROX.	APPROXIMATELY	MTD.	MOUNTED
ARCH.	ARCHITECT	MTL.	METAL
		MUL.	MULLION
BD.	BOARD		
BLDG.	BUILDING	(N)	NEW
BLKG.	BLOCKING	N.	NORTH
BM	BEAM	N.I.C.	NOT IN CONTRACT
B.M.	BENCH MARK	NO. or #	NUMBER
BOT.	BOTTOM	NOM.	NOMINAL
BTWN	BETWEEN	N.T.S.	NOT TO SCALE
B.W.	BOTH WAYS		
		OBS.	OBSCURE
CAB.	CABINET	O.C.	ON CENTER
C.B.	CATCH BASIN	OCC.	OCCUPANT(CY)
C.C or O.C.	CENTER TO CENTER	O.D.	OVERFLOW DRAIN and/or OUTSIDE DIAMETER
CEM.	CEMENT	O.F.O.S.	OUTSIDE FACE OF STUD
CER. TILE	CERAMIC TILE	O.F.C.I.	OWNER FURNISHED and CONTRACTOR INSTALLED
C.G.	CORNER GUARD	O.H.	OPPOSITE HAND
C.I.	CAST IRON	OPNG.	OPENING
CLT	CROSS LAMINATED TIMBER	OPP.	OPPOSITE
C.J.	CONTROL JOINT		
CLG.	CEILING		
CLKG.	CAULKING	P.A.F.	POWDER ACTUATED FASTENER
CLR.	CLEAR	PL	PLATE
CMU	CONCRETE MASONRY UNIT	P.L.	PROPERTY LINE
CNTR.	COUNTER	P. LAM	PLASTIC LAMINATE
C.O.	CLEANOUT	PLAS.	PLASTER
COL.	COLUMN	PLYWD.	PLYWOOD
CONC.	CONCRETE	PR.	PAIR
CONST.	CONSTRUCTION	PTD.	PAINTED
CONT.	CONTINUOUS	PTN.	PARTITION
CONTR.	CONTRACTOR		
C.P.	CONCRETE PIPE	Q.T.	QUARRY TILE
CTR.	CENTER		
CTSK.	COUNTER SUNK	R. or RAD.	RADIUS
C.W.	COLD WATER	R.C.P.	REINFORCED CONCRETE PIPE
		R.D.	ROOF DRAIN
D.A.	DISABLED ACCESS	R.E.	RIM ELEVATION
DBL	DOUBLE	REF.	REFERENCE
D.F.	DRINKING FOUNTAIN	REINF.	REINFORCING
D.FIR	DOUGLAS FIR	REQ'D	REQUIRED
DTL.	DETAIL	R.H.M.S.	ROUND HEAD METAL SCREW
DIA. or Ø	DIAMETER	R.H.W.S.	ROUND HEAD WOOD SCREW
DIM.	DIMENSION	RM.	ROOM
DISP.	DISPOSAL	R.O.	ROUGH OPENING
DN	DOWN	RWD.	REDWOOD
DO	DITTO	R.W.L.	RAIN WATER LEADER
DR.	DOOR		
DS.	DOWNSPOUT	S	SOUTH
DWG.	DRAWING	S.A.D.	SEE ARCHITECTURAL DRAWINGS
		S.C.	SOLID CORE
(E)	EXISTING	S.C.D.	SEE CIVIL DRAWINGS
E.	EAST	SCHED.	SCHEDULE
EA.	EACH	S.E.D.	SEE ELECTRICAL DRAWINGS
E.J.	EXPANSION JOINT	S.F.	SQUARE FEET
ELEC.	ELECTRIC or ELECTRICAL	SHEATH.	SHEATHING
EL.	ELEVATION	SHT.	SHEET
ELEV.	ELEVATOR	SIM.	SIMILAR
ENCL.	ENCLOSE and/or ENCLOSURE	S.L.D.	SEE LANDSCAPE DRAWINGS
EQ.	EQUAL	S.M.	SHEET METAL
EQUIP.	EQUIPMENT	S.M.D.	SEE MECHANICAL DRAWINGS
E.W.	EACH WAY	S.M.S.	SHEET METAL SCREW
E.W.C.	ELECTRIC WATER COOLER	S.O.V.	SHUT OFF VALVE
EX.	EXPANSION	S.P.D.	SEE PLUMBING DRAWINGS
EXP.	EXPOSED	SPEC.	SPECIFICATIONS
EXT.	EXTERIOR	SQ. or Ø	SQUARE
		S.S.	STAINLESS STEEL
F.A.	FIRE ALARM	S.S.D.	SEE STRUCTURAL DRAWINGS
F.D.	FLOOR DRAIN	STAG.	STAGGERED
FDN.	FOUNDATION	STD.	STANDARD
F.E.	FIRE EXTINGUISHER	STL.	STEEL
F.E.C.	FIRE EXTINGUISHER CABINET	STOR.	STORAGE
F.H.	FIRE HYDRANT	STRUCT.	STRUCTURAL
F.H.C.	FIRE HOSE CABINET	S.T.S.M.S.	SELF TAPPING SHEET METAL SCREW
F.H.S.M.S.	FLAT HEAD SHEET METAL SCREW	SUSP.	SUSPENDED
F.H.W.S.	FLAT HEAD WOOD SCREW		
FIN.	FINISH	T.& G.	TONGUE & GROOVE
FL. or FLR.	FLOOR	TEL.	TELEPHONE
F.O.C.	FACE OF CONCRETE	TERR.	TERRAZZO
F.O.F.	FACE OF FINISH	THRES.	THRESHOLD
F.O.M.	FACE OF MASONRY	T.J.	TOOLED JOINT
F.O.S.	FACE OF STUD	T.O.B.	TOP OF BEAM
F.S.	FINISH SLAB	T.O.C.	TOP OF CURB or CONCRETE
FT.	FOOT OR FEET	T.O.S.	TOP OF STEEL or SLAB
FTG.	FOOTING	T.O.W.	TOP OF WALL
FURR.	FURRING	TYP.	TYPICAL
GA.	GAUGE	U.O.N.	UNLESS OTHERWISE NOTED
GALV.	GALVANIZED		
G.B.	GRAB BAR	VERT.	VERTICAL
G.I.	GALVANIZED IRON	V.C.P.	VITRIFIED CLAY PIPE
GL.	GLASS	V.C.T.	VINYL COMPOSITION TILE
GLU-LAM	GLUE-LAMINATED	V.G.	VERTICAL GRAIN
GND.	GROUND	V.I.F.	VERIFY IN FIELD
GR.	GRADE	V.T.R.	VENT THROUGH ROOF
GYP.	GYPSUM	V.W.C.	VINYL WALL COVERING
H.B.	HOSE BIBB	W	WEST
H.C.	HOLLOW CORE	W/	WITH
HDWD.	HARDWOOD	W.C.	WATER CLOSET
HDWR.	HARDWARE	WD.	WOOD
H.M.	HOLLOW METAL	W.H.	WATER HEATER
HORIZ.	HORIZONTAL	W/O	WITHOUT
HR.	HOUR	W.O.	WHERE OCCURS
HT.	HEIGHT	WP.	WATERPROOF / WEATHERPROOF
		W. PT.	WORKING POINT
I.D.	INSIDE DIAMETER	W.R.	WATER RESISTANT
INSUL.	INSULATION	WT.	WEIGHT
INT.	INTERIOR		
INV.	INVERT	X	
JAN.	JANITOR	Y	
JT	JOINT		
		Z	
K.D.	KILN DRIED		
LAB.	LABORATORY		
LAM.	LAMINATE		
LAV.	LAVATORY		
LKR.	LOCKER		
LT.	LIGHT		

SYMBOL LEGEND

REFER TO ARCHITECTURAL FLOOR PLAN SHEETS AND CONSULTANT DRAWINGS FOR ADDITIONAL SYMBOLS AND REFERENCE DESIGNATIONS

DIMENSION REFERENCE

10" — FACE OF OBJECT
10" — CENTER LINE OF OBJECT

TAGS AND MARKERS

0 — PLAN REFERENCE GRID
STRUCTURAL GRID LINE
1 — REVISION MARKER
1 — PLAN KEY NOTES
Room name — ROOM LABEL
101 — ROOM NAME / ROOM NUMBER
150 SF — ROOM AREA
1 — WALL TYPE MARKER
101a — DOOR ID
DOOR DESIGNATION
ROOM NUMBER
℄ — CENTER LINE
XX-1 — FINISH TAG

MATERIALS REFERENCE

EARTH
GRAVEL / ROCK
CONCRETE
CONCRETE BLOCK (CMU)
SAND, GROUT, OR PLASTER
STEEL
PLYWOOD
WOOD, CONTINUOUS MEMBER
WOOD, BLOCKING
WOOD, FINISH GRADE

SECTION REFERENCE

1 / A12.08 — SECTION NUMBER
SIM — REFERENCE LABEL WHERE OCCURS
SHEET NUMBER

DETAIL REFERENCE

1 / A12.08 — DETAIL NUMBER
SIM — REFERENCE LABEL WHERE OCCURS
SHEET NUMBER

UNWRAPPED ELEVATION REFERENCE

1 / A12.08 — ELEVATION NUMBER
SIM
SHEET NUMBER

GENERAL NOTES

1. ITEMS OF A CIVIL, LANDSCAPE, STRUCTURAL, MECHANICAL, OR ELECTRICAL NATURE MAY NOT APPEAR ON THE ARCHITECTURAL DRAWINGS. SEE APPROPRIATE DRAWINGS FOR THESE ITEMS.
2. DIVISION OF THE STATE ARCHITECT (DSA) APPROVAL OF THIS APPLICATION DOES NOT INCLUDE FUTURE OR N.I.C. ITEMS.
3. ALL DEFERRED APPROVAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT AND THE APPROPRIATE CONSULTING ENGINEER FOR REVIEW & APPROVAL PRIOR TO SUBMITTING TO DSA FOR CHECKING & APPROVAL.
4. THE FIRE SUPPRESSION SYSTEM, I.E. AUTOMATIC SPRINKLERS, HOOD-DUCT SYSTEM, WET STANDPIPES, AND HYDRANTS SHALL NOT BE INSTALLED UNTIL SHOP DRAWINGS HAVE BEEN APPROVED BY THE FIRE & LIFE SAFETY SECTION AT DSA.
5. THE FIRE PROTECTION SIGNALING SYSTEM SHALL NOT BE INSTALLED UNTIL SHOP DRAWINGS, INCLUDING FIRE MARSHAL LISTING NUMBER FOR EACH COMPONENT OF THE SYSTEM, HAS BEEN SUBMITTED AND APPROVED BY THE STATE FIRE MARSHAL AT DSA.
6. FOOD HANDLING FACILITIES SHALL COMPLY WITH ALL LOCAL HEALTH DEPARTMENT REQUIREMENTS & CALIFORNIA UNIFORM RETAIL FOOD FACILITIES LAW.
7. PRIOR TO BIDDING, THE GENERAL CONTRACTOR SHALL VISIT & INSPECT THE SITE TO FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS AFFECTING THE NEW WORK. THE GENERAL CONTRACTOR SHALL NOT DISPUTE, COMPLAIN, OR ASSERT THAT THERE IS ANY MISUNDERSTANDING IN REGARDS TO LOCATION, EXTENT, NATURE, OR AMOUNT OF WORK TO BE PERFORMED UNDER THIS CONTRACT DUE TO THE CONTRACTOR'S FAILURE TO INSPECT THE SITE AND/OR FAILURE TO INSPECT THE CONTRACT DOCUMENTS.
8. THE GENERAL CONTRACTOR & SUBCONTRACTORS ARE RESPONSIBLE FOR LOCATING & VERIFYING ALL EXISTING UNDERGROUND UTILITIES IN ALL AREAS OF THE NEW WORK PRIOR TO COMMENCEMENT OF EXCAVATION. EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE ROUTING LOCATIONS AS BEST DETERMINED FROM EXISTING DRAWINGS & BY THE SCHOOL DISTRICT, BUT SHOULD NOT BE CONSTRUED TO REPRESENT ALL EXISTING UTILITIES.
9. ANY ALTERATIONS OF EXISTING FACILITIES TO ACCOMMODATE THE INSTALLATION OF NEW WORK SHALL BE REVIEWED BY THE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
10. ALL EXISTING FINISHES OR MATERIALS DAMAGED OR DEMOLISHED DUE TO NEW CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL STATE OR REPLACED WITH NEW MATERIALS FINISHED TO MATCH EXISTING.
11. CONTRACTOR SHALL COORDINATE ALL WORK TO AVOID DISRUPTION OF STUDENTS OR TEACHERS DURING SCHOOL HOURS. ANY DISRUPTION OF POWER, TELEPHONE, OR HVAC SYSTEMS MUST BE COORDINATED AND APPROVED BY THE DISTRICT REPRESENTATIVE PRIOR TO ANY WORK COMMENCING.
12. COMPLIANCE WITH CFC CHAPTER 33 (FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION) AND CBC CHAPTER 33 (SAFEGUARDS DURING CONSTRUCTION) WILL BE ENFORCED.
13. 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.
14. LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).
15. MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.
16. A LISTING OF CERTIFIED ATT CAN BE FOUND AT HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE
17. 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.
18. PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED

BOARD OF TRUSTEES

CONSULTANTS

STRUCTURAL
ELEMENT STRUCTURAL ENGINEERS, INC.
39675 CEDAR BLVD. STE #295C
NEWARK, CA 94560
510-573-1557

ELECTRICAL/ FIRE ALARM
OPTIMUM ELECTRICAL DESIGN
2600 10TH STREET #500
BERKELEY, CA 94710
(510) 779-3004

MECHANICAL/ PLUMBING
OPTIMUM ENERGY DESIGN, INC.
2600 10TH STREET #500
BERKELEY, CA 94710
(510) 837-9182

GEOTECHNICAL
CONSTRUCTION TESTING SERVICES, LLC
2118 RHEEM DRIVE,
PLEASANTON, CA 94588
(925) 462-5151

APPLICABLE CODES

1. 2019 CALIFORNIA BUILDING STANDARDS ADMINISTRATION CODE (PART 1, TITLE 24, CCR)
2. 2019 CALIFORNIA BUILDING CODE (PART 2, VOLUMES 1 AND 2, TITLE 24, CCR)
3. 2019 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR)
4. 2019 CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24, CCR)
5. 2019 CALIFORNIA PLUMBING CODE (PART 5, TITLE 24, CCR)
6. 2019 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR)
7. 2019 CALIFORNIA FIRE CODE (PART 9, TITLE 24, CCR)
8. 2019 CALGREEN BUILDING STANDARDS CODE (PART 11, TITLE 24, CCR)
9. 2019 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR)
10. TITLE 19, CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

REFERENCE STANDARDS

PARTIAL LIST OF APPLICABLE STANDARDS (AS REFERENCED IN 2019 CBC - CHAPTER 35 & CFC):

	ADA STANDARDS FOR ACCESSIBLE DESIGN (APPENDIX A OF 28 CFR PART 36)	2010 EDITION
NFPA 17	STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS	2017 EDITION
NFPA 17-A	STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS	2017 EDITION
NFPA 20	STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION	2016 EDITION
NFPA 24	STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES	2016 EDITION
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE	2016 EDITION
NFPA 80	STANDARD FOR FIRE DOOR AND OTHER OPENING PROTECTIVES	2016 EDITION
NFPA 110	STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS	2016 EDITION
NFPA 2001	STANDARD ON CLEAN AGENT FIRE EXTINGUISHER SYSTEMS	2015 EDITION

ADMINISTRATIVE REQUIREMENTS

1. A COPY OF ALL APPLICABLE PARTS REFERENCED BY THE PLANS AND SPECIFICATIONS OF CCR PART 1 AND 2 SHALL BE KEPT ON SITE AT ALL TIMES.
2. ALL CONSTRUCTION CHANGE DOCUMENTS AND ADDENDA TO BE SIGNED BY THE ARCHITECT, THE OWNER, AND APPROVED BY DSA. CONSTRUCTION CHANGE DOCUMENTS ARE NOT VALID UNTIL APPROVED BY DSA PER SECTION 4-338.
3. ALL TESTS TO CONFORM TO THE REQUIREMENTS OF SECTION 4-335.
4. TESTS OF MATERIALS AND TESTING LABORATORY SHALL BE IN ACCORDANCE WITH SECTION 4-335.
5. DSA SHALL BE NOTIFIED AT THE START OF CONSTRUCTION AND PRIOR TO PLACEMENT OF CONCRETE PER SECTION 4-331.
6. INSPECTOR SHALL BE APPROVED BY DSA. INSPECTOR SHALL BE IN ACCORDANCE WITH SECTION 4-333(b). THE DUTY OF THE INSPECTOR SHALL BE IN ACCORDANCE WITH SECTION 4-342.
7. SUPERVISION OF CONSTRUCTION BY DSA SHALL BE IN ACCORDANCE WITH 4-334.
8. CONTRACTOR, INSPECTOR, ARCHITECT, AND ENGINEERS SHALL SUBMIT VERIFIED REPORTS (FORM 6) IN ACCORDANCE WITH SECTION 4-336 AND 4-343.
9. THE ARCHITECT AND THE STRUCTURAL ENGINEERS SHALL PERFORM THEIR DUTIES IN ACCORDANCE WITH SECTIONS 4-333(a) AND 4-341.
10. THE CONTRACTOR SHALL PERFORM HIS DUTIES IN ACCORDANCE WITH SECTION 4-343.
11. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS THE (RE)CONSTRUCTION OF A SCHOOL BUILDING(S) IN ACCORDANCE WITH TITLE 24, C.C.R. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH SAID C.C.R. A CONSTRUCTION CHANGE DOCUMENT DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.
12. DSA IS NOT SUBJECT TO ARBITRATION.

SCOPE OF WORK

MODERNIZATION OF BUILDING C, PARTIAL MODERNIZATION OF BUILDING E AND ADDITION OF (1) SHADE STRUCTURE.

NOTE: DSA CERTIFICATION OF CURRENT PROJECT - #01-119816 IS CONTINGENT UPON THE CERTIFICATION OF THE DSA #01-117855

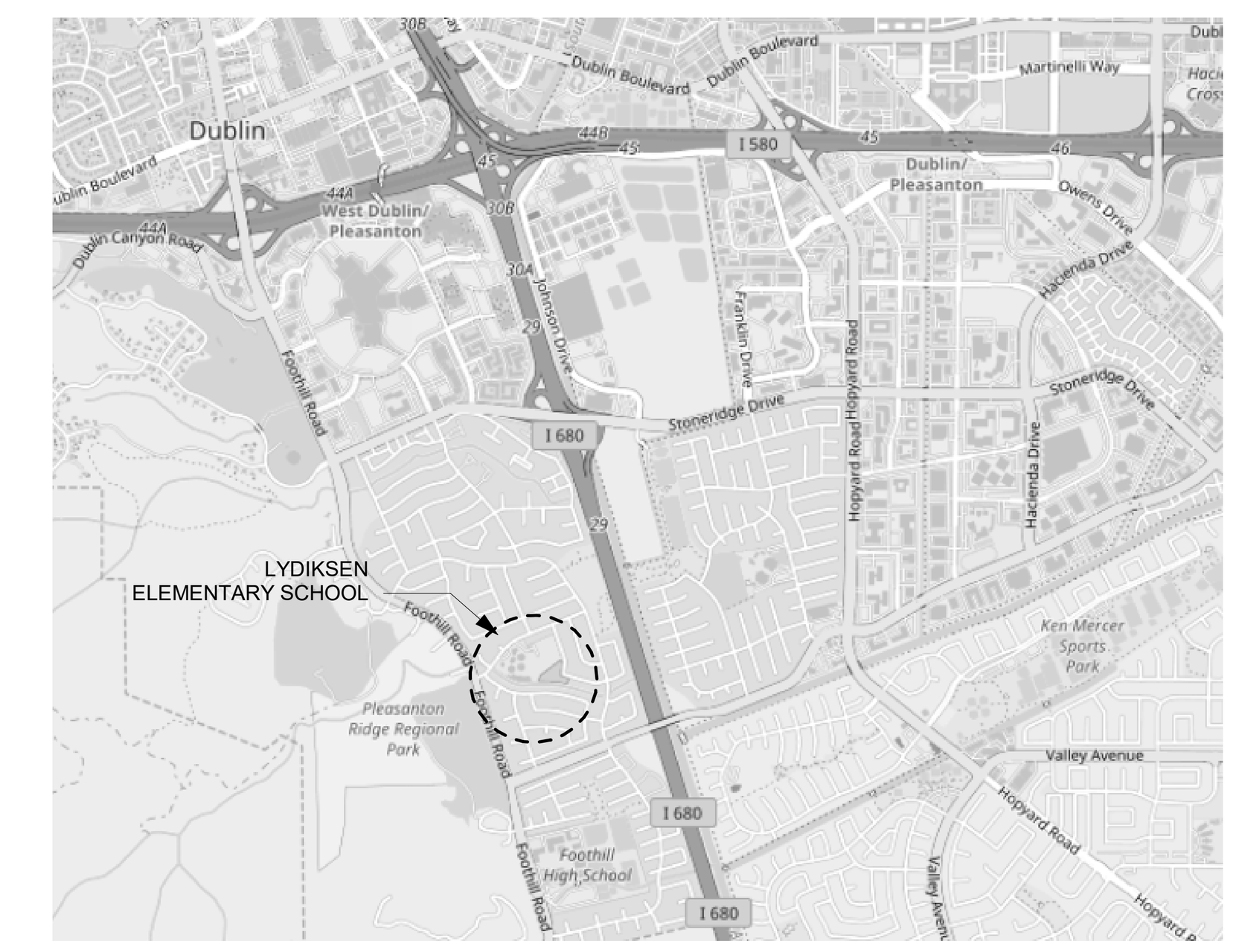
DEFERRED APPROVAL ITEMS

NONE

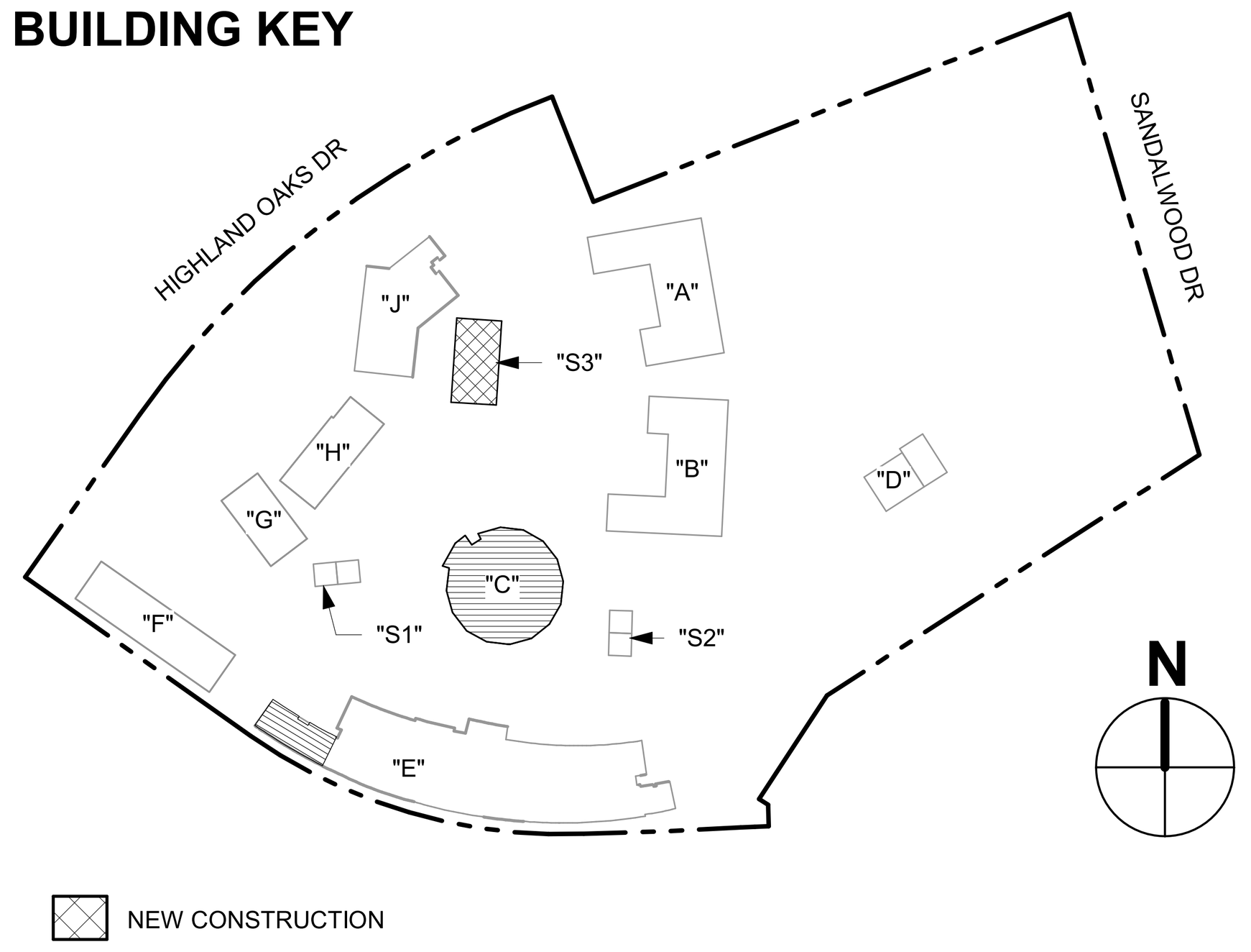
DRAWING INDEX

TOTAL: 90 SHEETS

LOCATION MAP



BUILDING KEY



▨ NEW CONSTRUCTION
▤ MODERNIZATION
□ EXISTING CONSTRUCTION TO REMAIN & MODERNIZED

* These drawings, and/or specifications, and/or calculations for the items listed above 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.
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))

[illegible]

	02/15/2022
THANG DO - PRINCIPAL IN CHARGE	**DATE -**
C-018127	11/30/2023
CALIFORNIA LICENSE NUMBER	**EXPIRATION DATE**

PROJECT
LYDIKSEN ELEMENTARY SCHOOL MODERNIZATION

PLEASANTON UNIFIED SCHOOL DISTRICT

CONSULTANT

STAMP
LICENSED ARCHITECT
THANG N. DO
No. C-018127
REN. 11/30/23
STATE OF CALIFORNIA

STATE
DSA FILE NUMBER 1-32
APPL # 01-119816

REVISIONS

No.	Description	Date
△		

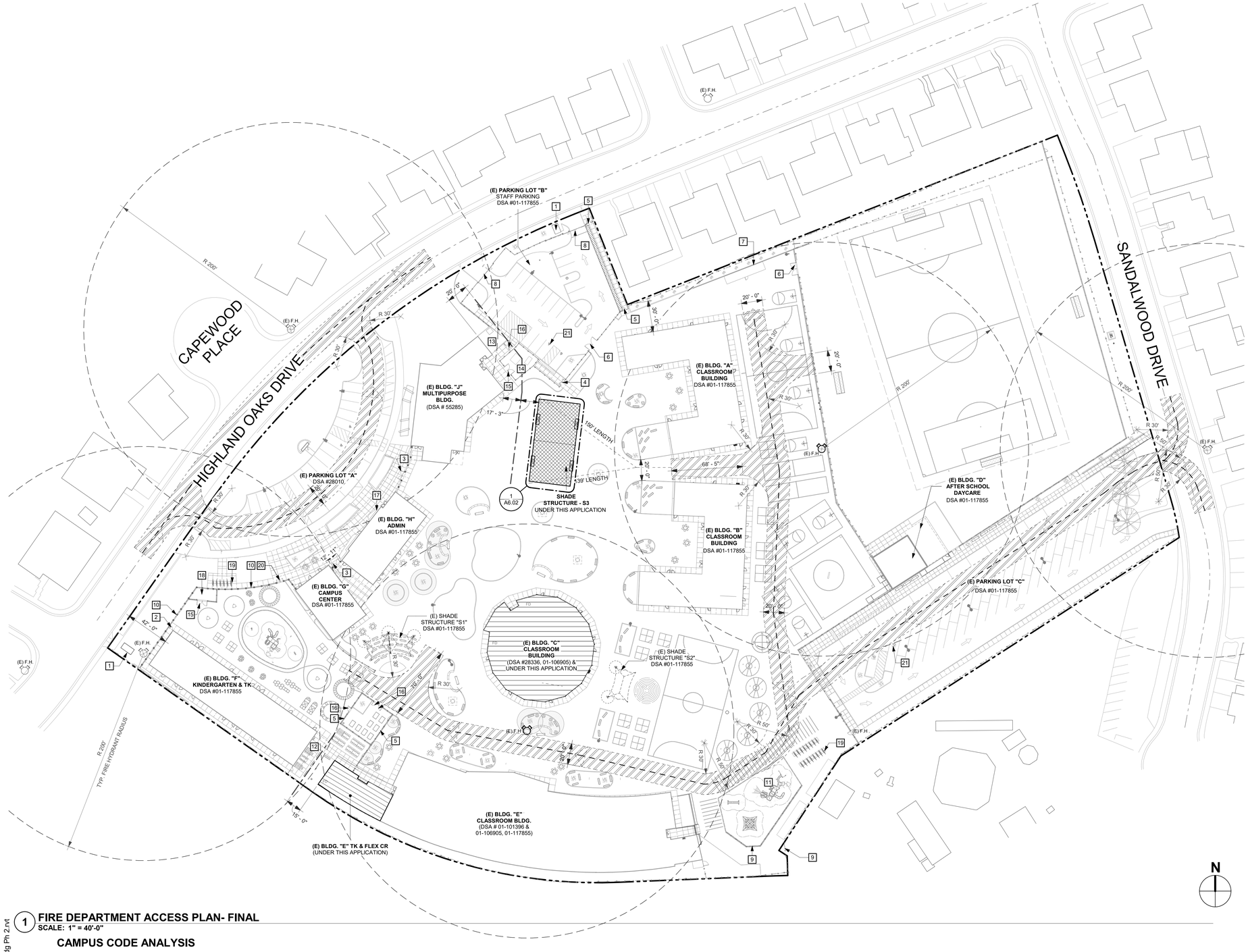
MILESTONES

SD	06/28/2021
DD	08/23/2021
50% CD	09/20/2021
90% CD	10/14/2021
DSA SUB	10/19/2021

SHEET
TITLE SHEET

DATE 02/15/2022
JOB # 2020029.02
SHEET # T1

2/16/2022 5:07:17 PM
BIM 360://Lydiksen ES New Classroom Bldg/2020029.02 - Lydiksen ES New Clsrm Bldg Ph 2.rvt



1 **FIRE DEPARTMENT ACCESS PLAN- FINAL**
SCALE: 1" = 40'-0"

CAMPUS CODE ANALYSIS

BUILDING A - (E) CLASSROOM (ONE STORY) :

USE	EDUCATION
OCCUPANCY GROUP	E
CONSTRUCTION TYPE	V-B
FIRE SPRINKLERED	NO
BUILDING HEIGHT	16 FT
ALLOWABLE HEIGHT PER TABLE 504.3	40 FT
BASIC ALLOWABLE AREA PER TABLE 506.02	9,500 SF
ACTUAL AREA	7,746 SF 7,746 SF < 9,500 SF **THEREFORE OKAY**

BUILDING B - (E) CLASSROOM (ONE STORY) :

USE	EDUCATION
OCCUPANCY GROUP	E
CONSTRUCTION TYPE	V-B
FIRE SPRINKLERED	NO
BUILDING HEIGHT	16 FT
ALLOWABLE HEIGHT PER TABLE 504.3	40 FT
BASIC ALLOWABLE AREA PER TABLE 506.2	9,500 SF
ACTUAL AREA	7,746 SF 7,746 SF < 9,500 SF **THEREFORE OKAY**

BUILDING D - (E) PORTABLES D1 AND D2 :

USE	EDUCATION
OCCUPANCY GROUP	E
CONSTRUCTION TYPE	V-B
FIRE SPRINKLERED	NO
BUILDING HEIGHT	10 FT
ALLOWABLE HEIGHT PER TABLE 504.3	40 FT
BASIC ALLOWABLE AREA PER TABLE 506.2	9,500 SF
ACTUAL AREA	2,400 SF 2,400 SF < 9,500 SF **THEREFORE OKAY**

BUILDING E - (E) CLASSROOM BUILDING (ONE STORY) :
DSA #: 01-101396 , NO CHANGE IN FOOTPRINT

USE	EDUCATION
OCCUPANCY GROUP	E
CONSTRUCTION TYPE	V-B
FIRE SPRINKLERED	YES
BUILDING HEIGHT	20 FT
ALLOWABLE HEIGHT PER TABLE 504.3	60 FT
BASIC ALLOWABLE AREA PER TABLE 506.2 FOR FIRE SPRINKLER	38,000 SF
ACTUAL AREA:	22,000 SF 22,000 SF < 38,000 SF **THEREFORE OKAY**

(E) BUILDING G - CAMPUS CENTER& BUILDING H - ADMIN (ONE STORY) :

USE	BUSINESS
OCCUPANCY GROUP	B
CONSTRUCTION TYPE	V-B
FIRE SPRINKLERED	NO
BUILDING HEIGHT	16 FT
ALLOWABLE HEIGHT PER TABLE 504.3	40 FT
BASIC ALLOWABLE AREA PER TABLE 506.2	9,000 SF
ACTUAL AREA	2,414(CAMPUS CENTER)+ 3,314(ADMIN) 5,728 SF < 9,000 SF **THEREFORE OKAY**

(E) S1 - PC APPROVED SHADE STRUCTURE

USE	ASSEMBLY
OCCUPANCY GROUP	A-3
CONSTRUCTION TYPE	II-B
FIRE SPRINKLERED	NO
BASIC ALLOWABLE AREA PER TABLE 506.2	9,500 SF
ACTUAL AREA	1000 SF 1000SF < 9,500 SF **THEREFORE OKAY**

(E) BUILDING F - KINDERGARTEN (ONE STORY) :

USE	EDUCATION
OCCUPANCY GROUP	E
CONSTRUCTION TYPE	V-B
FIRE SPRINKLERED	NO
BUILDING HEIGHT	16 FT
ALLOWABLE HEIGHT PER TABLE 504.3	40 FT
BASIC ALLOWABLE AREA PER TABLE 506.2	9,500 SF
ACTUAL AREA	6,831 SF 6,831 SF < 9,500 SF **THEREFORE OKAY**

(E) S2 - PC APPROVED SHADE STRUCTURE

USE	ASSEMBLY
OCCUPANCY GROUP	A-3
CONSTRUCTION TYPE	II-B
FIRE SPRINKLERED	NO
BASIC ALLOWABLE AREA PER TABLE 506.2	9,500 SF
ACTUAL AREA	600 SF 600SF < 9,500 SF **THEREFORE OKAY**

(E) BUILDING J - MULTIPURPOSE ROOM (ONE STORY) :
DSA #: 55285, NO CHANGE IN FOOTPRINT

USE	EDUCATION
OCCUPANCY GROUP	A-3
FIRE SPRINKLERED	NO
CONSTRUCTION TYPE	V-A
BUILDING HEIGHT	28 FT
ALLOWABLE AREA PER TABLE 504.3	50 FT
BASIC ALLOWABLE AREA PER TABLE 506.2	11,500 SF
ACTUAL AREA:	6,200 SF 6,200 SF < 11.500 SF **THEREFORE OK**

S3 - SHADE STRUCTURE
DSA # UNDER THIS APPLICATION

USE	ASSEMBLY
OCCUPANCY GROUP	A-3
CONSTRUCTION TYPE	V-B
FIRE SPRINKLERED	NO
BASIC ALLOWABLE AREA PER TABLE 506.2	6,000 SF
ACTUAL AREA	2,520 SF 2,520SF < 6,000 SF **THEREFORE OKAY**

GENERAL SHEET NOTES

A CONTRACTOR TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED OR WILL BE REMOVED UNDER THIS PROJECT AND PATH OF TRAVEL COMPLIES WITH CBC 11B-206.

C DO NOT INTERRUPT EXISTING UTILITY SERVICES SERVING OCCUPIED OR USED FACILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AND COORDINATED WITH THE OWNER.

D PROTECT EXISTING & NEW STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, TREES AND SHRUBS FROM DAMAGE DURING CONSTRUCTION.

E REFER TO PLUMBING AND ELECTRICAL DRAWINGS FOR EXTENT OF PLUMBIN AND ELECTRICAL WORK.

F THE GENERAL CONTRACTOR WILL BE RESPONSIBLE TO REMOVE ASBESTOS AND LEAD FOR DEMOLITION WORK.

G ALL EXISTING FINISHES OR MATERIALS DAMAGED OR DEMOLISHED DUE TO NEW CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL STATE, INCLUDING BUT NOT LIMITED TO REINSTALLING OR REPLACING EXISTING ITEMS AS REQUIRED AND RESTRIPING PAVING IN KIND. S.E.D. FOR TRENCH ROUTING. SEE ARCHITECTURAL SITE PLAN FOR STRIPING AT EXISTING

FIRE DEPARTMENT ACCESS PLAN KEYNOTES

1 (E) F.D.C.
2 (E) ADA ACCESSIBLE CHAIN LINK GATE DSA # 01-117855.
3 (E) ADA ACCESSIBLE ORNAMENTAL GATE, DSA # 01-117855.
4 (E) ADA ACCESSIBLE CHAIN LINK GATE, DSA# 01-117855.
5 (E) ADA ACCESSIBLE CHAIN LINK GATE, DSA # 01-117855.
6 (E) CHAIN LINK MAINTENANCE GATE
7 (E) P.E. STORAGE, INSULATED, OFCI.
8 (E) AUTOMATIC CANTILEVER CHAIN LINK SECURITY GATE.
9 (E) CHAIN LINK FENCE
10 (E) ORNAMENTAL FENCING.
11 (E) PLAYGROUND
12 (E) D.A. HI-LOW DRINKING FOUNTAIN, DSA # 01-117855.
13 (E) TRASH /WASH-DOWN AREA.
14 (E) ELECTRICAL EQUIPMENT
15 (E) CHAIN LINK MAINTENANCE GATE.
16 (E) ADA ACCESSIBLE CHAIN LINK GATE, DSA # 01-117855.
17 (E) FIRE DEPARTMENT KNOX BOX. MOUNT 60" ABOVE FINISH SURFACE.
18 (E) STORAGE.
19 (E) BIKE PARKING.
20 (E) ADA ACCESSIBLE ORNAMENTAL GATE, DSA # 01-117855.
21 (E) D.A ACCESSIBLE PARKING STALL, DSA#01-117855.

GRAPHIC KEY

NEW CONSTRUCTION

MODERNIZATION

EXISTING CONSTRUCTION TO REMAIN & MODERNIZED

PROPERTY LINE

ASSUMED PROPERTY LINE

(E) CHAIN LINK FENCE

(E) ORNAMENTAL FENCE

(E) FIRE DEPARTMENT ACCESS
FIRE DEPARTMENT ACCESS IS 20'-0" WIDE AND RATED FOR 96,000 LBS.

(E) F.H. EXISTING FIRE HYDRANT

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:	PLEASANTON UNIFIED SCHOOL DISTRICT
Project Name/School:	LYDIKSEN ELEMENTARY SCHOOL
Project Address:	7700 HIGHLAND OAKS DR, PLEASANTON, CA 94588

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 ☐

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DIV. OF THE STATE ARCHITECT
APP: 01-119816 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 02/25/2022

aedis architects
www.aedisarchitects.com
387 S. 1st Street, Suite 300
San Jose, CA 95113
tel: (408)-300-5160
fax: (408)-300-5121

PROJECT
LYDIKSEN ELEMENTARY SCHOOL MODERNIZATION

PLEASANTON UNIFIED SCHOOL DISTRICT

CONSULTANT

STAMP
LICENSED ARCHITECT JOHN A. AEDIS 018127 STATE OF CALIFORNIA

STATE
DSA FILE NUMBER 1-32
APPL # 01-119816

REVISIONS

No.	Description	Date

MILESTONES

SD	06/28/2021
DD	08/23/2021
50% CD	09/20/2021
90% CD	10/14/2021
DSA SUB	10/19/2021

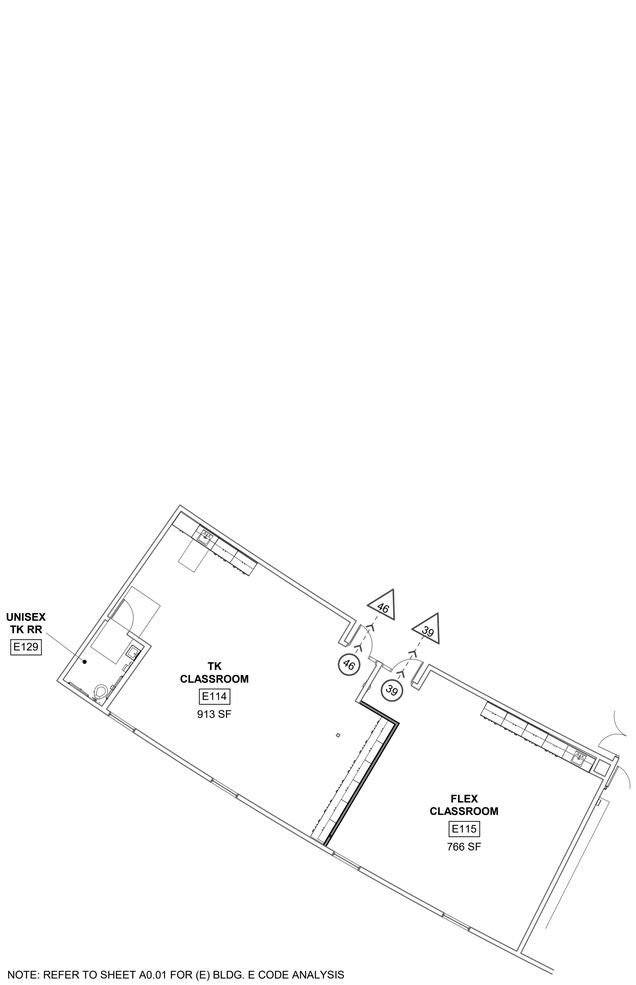
SHEET
FIRE DEPARTMENT ACCESS PLAN & CAMPUS CODE ANALYSIS

DATE 02/15/2022
JOB # 2020029.02
SHEET # A0.01

NUMBER	NAME	OCCUPANCY GROUP	AREA	OCCUPANCY LOAD FACTOR, SF/OCC.	OCC. LOAD	EXIT WIDTH REQUIRED, (INCHES)	REQ. # OF EXITS	EXIT WIDTH PROVIDED, (INCHES)
C1	CLASSROOM	E	853 SF	20	43	8.6	1	36
C2	CLASSROOM	E	849 SF	20	43	8.6	1	36
C3	CLASSROOM	E	853 SF	20	43	8.6	1	36
C4	CLASSROOM	E	858 SF	20	43	8.6	1	36
C5	STUDENT UNISEX RR.	-	77 SF	0	-	-	1	36
C6	INTERVENTION	B	534 SF	100	6	1.2	1	36
C7	STOR.	S	37 SF	300	1	0.2	1	36
C8	WORKROOM	B	643 SF	100	7	1.4	1	36
C9	ELECT.	S	65 SF	300	1	0.2	1	36
C10	BOYS RESTROOM	-	157 SF	0	-	-	1	36
C11	SPEECH 1	B	185 SF	100	2	0.4	1	36
C12	SPEECH 2	B	186 SF	100	2	0.4	1	36
C13	UNISEX RR.	-	59 SF	0	-	-	1	36
C14	CUSTODIAL	S	59 SF	300	1	0.2	1	36
C15	GIRLS RR.	-	154 SF	0	-	-	1	36
C16	DEAF/HEARING	B	169 SF	100	2	0.4	1	36
C17	COUNSELOR	B	185 SF	100	2	0.4	1	36
C18	UNASSIGNED	B	166 SF	100	2	0.4	1	36
C19	OCCU. THERAPY	B	180 SF	100	2	0.4	1	36
C20	PE STORAGE	S	307 SF	300	1	0.2	1	36
C21	PSYCHOLOGY	B	167 SF	100	2	0.4	1	36
C22	PE OFFICE	B	272 SF	100	3	0.6	1	36
C23	RESOURCE	B	537 SF	100	6	1.2	1	36
C24	STOR.	S	33 SF	300	1	0.2	1	36
C25	HALLWAY	-	273 SF	0	-	-	1	36

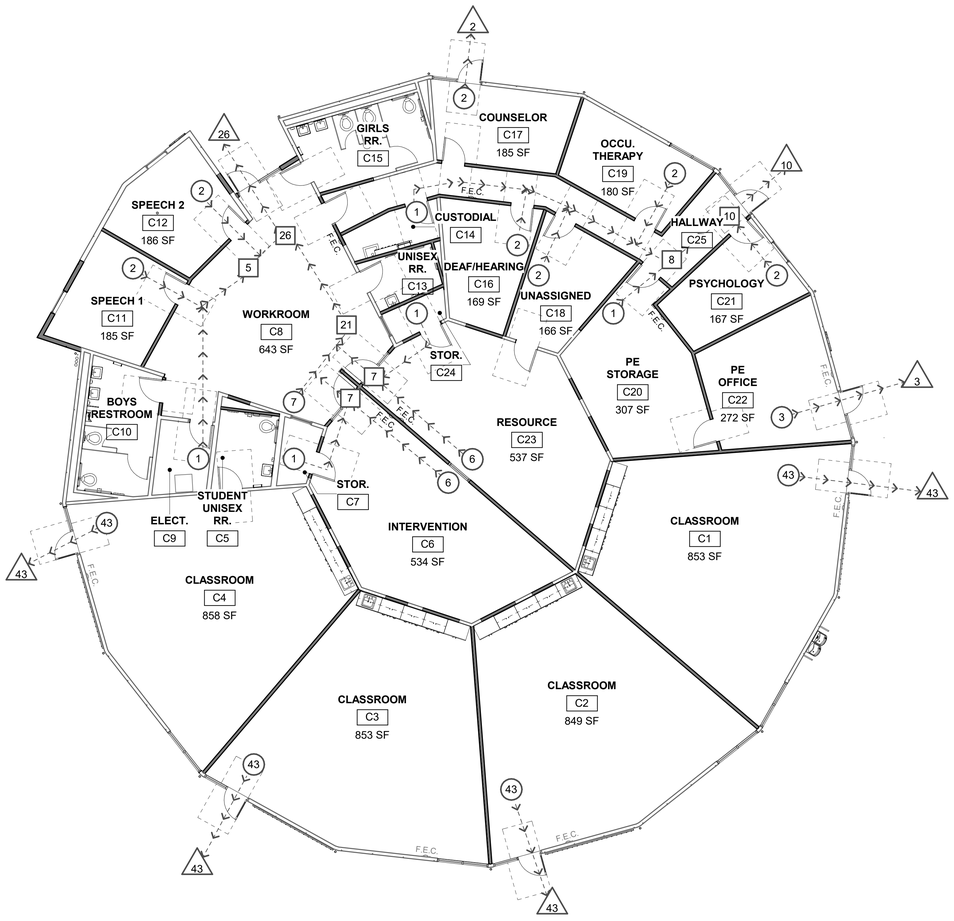
TOTAL OCCUPANT LOAD FROM BUILDING C: 213

NUMBER	NAME	OCCUPANCY GROUP	AREA	OCCUPANCY LOAD FACTOR, SF/OCC.	OCC. LOAD	EXIT WIDTH REQUIRED, (INCHES)	REQ. # OF EXITS	EXIT WIDTH PROVIDED, (INCHES)
E114	TK CLASSROOM	E	913 SF	20	46	9.2	1	36
E115	FLEX CLASSROOM	E	766 SF	20	39	7.8	1	36
E129	UNISEX TK RR	E	59 SF	0	-	-	1	36



NOTE: REFER TO SHEET A0.01 FOR (E) BLDG. E CODE ANALYSIS

2 BUILDING E - CLASSROOM BUILDING FLOOR PLAN - EXIT ANALYSIS
SCALE: 1/8" = 1'-0"



1 BUILDING C - CLASSROOM BUILDING FLOOR PLAN - EXIT ANALYSIS
SCALE: 1/8" = 1'-0"

N

BUILDING CODE ANALYSIS (PER 2019 C.B.C.)

BUILDING CONSTRUCTION TYPE

BUILDING "C"

TYPE V-B	REQ. FIRE RESISTANCE RATING (PER CBC TABLE 601)
PRIMARY STRUCTURAL FRAME	0 HR
EXTERIOR BEARING WALLS	0 HR
INTERIOR BEARING WALLS	0 HR
EXTERIOR NON-BEARING WALLS	0 HR
INTERIOR NON-BEARING WALLS	0 HR
FLOORS & FLOOR CEILINGS	0 HR
ROOFS & ROOF CEILINGS	0 HR

REQUIRED SPRINKLER SYSTEM

AUTOMATIC SPRINKLER SYSTEM REQUIRED BY SEC. 903.2.3 FOR ALL E OCCUPANCIES WITH FIRE AREA > 12,000 SF

8,394 SF<12,000 SF THEREFORE NOT REQUIRED

BUILDING HEIGHT ANALYSIS

BUILDING OCCUPANCY E

TOTAL HEIGHT:	16'-0", 1 STORY	
ALLOWABLE HEIGHT:	40'-0", 1 STORY = 16'-0" < 40'-0"	PER CBC TABLE 504.3

THEREFORE OK

BUILDING AREA ANALYSIS

USE	EDUCATION & BUSINESS
OCCUPANCY GROUP	E & B
CONSTRUCTION TYPE	V-B
FIRE SPRINKLERED	NO
BASIC ALLOWABLE AREA PER TABLE 508.3	9,000 SF (NON SEPARATED)
ACTUAL AREA	8,394 SF 8,394SF < 9,000 SF

THEREFORE OKAY

GRAPHIC KEY

WALL TYPES:

(E) STUD WALL

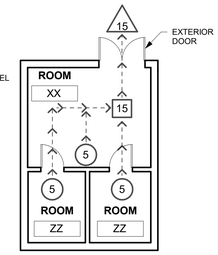
NEW STUD WALL.

EXIT ANALYSIS PATH OF TRAVEL

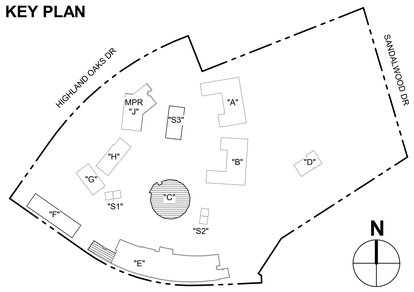
ROOM OCCUPANT LOAD

COMBINED OCCUPANT LOAD

TOTAL FLOOR OCCUPANT LOAD



KEY PLAN



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PROJECT

LYDIKSEN ELEMENTARY SCHOOL MODERNIZATION

PLEASANTON UNIFIED SCHOOL DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT
JOSEPH A. DEVINCENZI
No. C-31617
STATE OF CALIFORNIA

STATE
DSA FILE NUMBER 1-32
APPL # 01-119816

REVISIONS

No.	Description	Date

MILESTONES

SD	06/28/2021
DD	08/23/2021
50% CD	09/20/2021
90% CD	10/14/2021
DSA SUB	10/19/2021

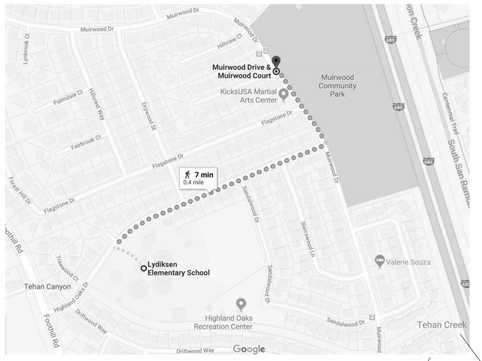
SHEET

BUILDING C & E - CODE AND EXIT ANALYSIS

DATE 02/15/2022

JOB # 2020029.02

SHEET # A0.02



MAP INDICATING THE NEAREST CITY BUS STOP

1 **NEW SITE PLAN**
SCALE: 1" = 40'-0"

PARKING COUNT

PARKING COUNT:	REQUIRED	ACTUAL
(E) PARKING LOT 'A' - VISITOR & STAFF		
- PARKING STALLS:		24
- D.A. PARKING STALLS :	1	1
- VAN D.A. PARKING STALLS :	1	1
(E) PARKING LOT 'B' - STAFF PARKING		
- PARKING STALLS:		21
- D.A. PARKING STALLS :	1	1
- VAN D.A. PARKING STALLS:	1	1
(E) PARKING LOT 'C' - VISITOR & STAFF		
- PARKING STALLS:		42
- D.A. PARKING STALLS :	1	1
- VAN D.A. PARKING STALLS:	1	1
TOTAL		**93**

PLUMBING FIXTURE COUNT

FIXTURE COUNT	STUDENTS (MALE)	STUDENTS (FEMALE)	STAFF (MALE)	STAFF (FEMALE)
POPULATION:	325	325	25	25
REQUIRED: - WATER CLOSETS	8 (1:50)	11 (1:30)	1 (1:50)	1 (1:30)
- URINAL	4 (1:100)	N/A	1 (1:100)	N/A
- LAVATORIES	9 (1:40)	9 (1:40)	1 (1:40)	1 (1:40)
- DRINKING FOUNTAINS	3 (1:150)	3 (1:150)		
PROVIDED: - WATER CLOSETS	15(E)+2(N)	20(E)+3(N)*	7(E)+1(N)	7(E)+1(N)
- URINAL	6(E)+1(N)	N/A	N/A	N/A
- LAVATORIES	16(E)+2(N)	16(E)+2(N)	7(E)+1(N)	7(E)+1(N)
- DRINKING FOUNTAINS	8(E)+1(N) (WATER STATIONS, PER CPC 415.2 & TABLE 422.1)			

* PER CPC TABLE 422.1 NOTE 3

GRAPHIC KEY

- NEW CONSTRUCTION
- MODERNIZATION
- EXISTING CONSTRUCTION TO REMAIN
- EXISTING TOILET TO BE MODERNIZED. REFER TO NOTES FOR ADDITIONAL INFORMATION.
- EXISTING TOILET ROOMS. REFER TO NOTES FOR ADDITIONAL INFORMATION.
- TRENCH FOR ELECTRICAL WORK, S.E.D. AND DETAIL ON SHEET A8.10
- PROPERTY LINE
- ASSUMED PROPERTY LINE
- (E) ORNAMENTAL FENCE
- (E) CHAIN LINK FENCE
- D.A. PATH OF TRAVEL
  D.A. PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER FREE ACCESS WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAXIMUM AND AT LEAST 48" WIDE. SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED. D.A. PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM HEIGHT AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL ABOVE 27" AND BELOW 80". ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.
- (E) F.H. EXISTING FIRE HYDRANT

GENERAL SHEET NOTES

A CONTRACTOR TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED OR WILL BE REMOVED UNDER THIS PROJECT AND PATH OF TRAVEL COMPLIES WITH CBC 11B-206.

C DO NOT INTERRUPT EXISTING UTILITY SERVICES SERVING OCCUPIED OR USED FACILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AND COORDINATED WITH THE OWNER.

D PROTECT EXISTING & NEW STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, TREES AND SHRUBS FROM DAMAGE DURING CONSTRUCTION.

E REFER TO PLUMBING AND ELECTRICAL DRAWINGS FOR EXTENT OF PLUMBIN AND ELECTRICAL WORK.

F THE GENERAL CONTRACTOR WILL BE RESPONSIBLE TO REMOVE ASBESTOS AND LEAD FOR DEMOLITION WORK.

G ALL EXISTING FINISHES OR MATERIALS DAMAGED OR DEMOLISHED DUE TO NEW CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL STATE, INCLUDING BUT NOT LIMITED TO REINSTALLING OR REPLACING EXISTING ITEMS AS REQUIRED AND RESTRIPING PAVING IN KIND. S.E.D. FOR TRENCH ROUTING. SEE ARCHITECTURAL SITE PLAN FOR STRIPING AT EXISTING

SITE PLAN KEYNOTES

1 (E) SOCCER FIELD AREA
2 (E) CHAIN-LINK FENCING TO REMAIN, PROTECT DURING CONSTRUCTION
3 (E) PLAYGROUND
4 (E) BIKE PARKING.
5 (E) VEGETABLE GARDEN.
6 (E) A.C. PAVING
7 (E) D.A. UNISEX STAFF RESTROOM, DSA #01-117855.
8 (E) D.A. BOYS RESTROOM, DSA #01-117855.
9 (E) D.A. GIRLS RESTROOM, DSA #01-117855.
10 (E) D.A. HI-LOW DRINKING FOUNTAIN, DSA # 01-117855.
11 (E) ADA ACCESSIBLE CHAIN LINK GATE, DSA# 01-117855.
12 (E) TRASH /WASH-DOWN AREA.
13 (E) ORNAMENTAL FENCING.
14 (E) BENCHES
15 (E) PLANTING AREA AND TREE
16 (E) PLANTING AREA
17 (E) BUS PARKING.
18 (E) ELECTRICAL EQUIPMENT
19 (E) F.D.C.
20 (E) CHAIN LINK FENCING.
21 (E) BIORETENTION AREA.
22 (E) OUTDOOR LEARNING AREA.
23 (E) IRRIGATION CONTROLLER.
24 (E) CHAIN LINK MAINTENANCE GATE
25 (E) TOW-AWAY SIGN, DSA# 01-117855
26 (E) ADA ACCESSIBLE CHAIN LINK GATE, DSA # 01-117855.
27 (E) AUTOMATIC CANTILEVER CHAIN LINK SECURITY GATE.
28 (E) CHAIN LINK FENCE
29 (E) PC SHADE STRUCTURE, DSA #01-117885 & PC#04-119455.
30 (E) ADA ACCESSIBLE ORNAMENTAL GATE, DSA # 01-117855.
31 (E) CONCRETE WALKWAY.
32 (E) UNISEX RESTROOM TO BE MODERNIZED, UNDER THIS APPLICATION.
33 (E) BOYS RESTROOM TO BE MODERNIZED, UNDER THIS APPLICATION.
34 (E) GIRLS RESTROOM TO BE MODERNIZED, UNDER THIS APPLICATION.
35 TOW-AWAY SIGN SEE DETAIL 5/A10.01
36 (E) ACCESSIBLE DROP-OFF, DSA #01-117855
37 SIGNAGE TO READ "COOKING PROHIBITED. NOT TO BE USED FOR STORAGE" SEE DET. 13/A10.01
38 LIGHT POLE S.E.D.
39 (E) STRIPING TO REMAIN
40 (E) D.A ACCESSIBLE PARKING STALL, DSA#01-117855.

"Design Professional in General Responsible Charge Statement: The POT identified in these construction documents meets the requirements of the current applicable California Building Code (CBC) accessibility provisions for path of travel requirements for alterations, additions and structural repairs. As part of the design of this project, the POT was examined and any elements, components or portions of the POT that were determined to be noncompliant with the CBC have been identified and the corrective work necessary to bring them into compliance has been included within the scope of this project's work through details, drawings and specifications incorporated into these construction documents. Any noncompliant elements, components or portions of the POT that will not be corrected by this project based on valuation threshold limitations or a finding of unreasonable hardship are indicated in these construction documents. During construction, if POT items within the scope of the project represented as CBC compliant are found to be nonconforming beyond reasonable construction tolerances, the items shall be brought into compliance with the CBC as a part of this project by means of a construction change document."

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PROJECT
LYDIKSEN ELEMENTARY SCHOOL MODERNIZATION

PLEASANTON UNIFIED SCHOOL DISTRICT

CONSULTANT

STAMP
LICENSED ARCHITECT 29818 STATE OF CALIFORNIA

STATE
DSA FILE NUMBER 1-32
APPL # 01-119816

REVISIONS

No.	Description	Date
△		
△		

MILESTONES

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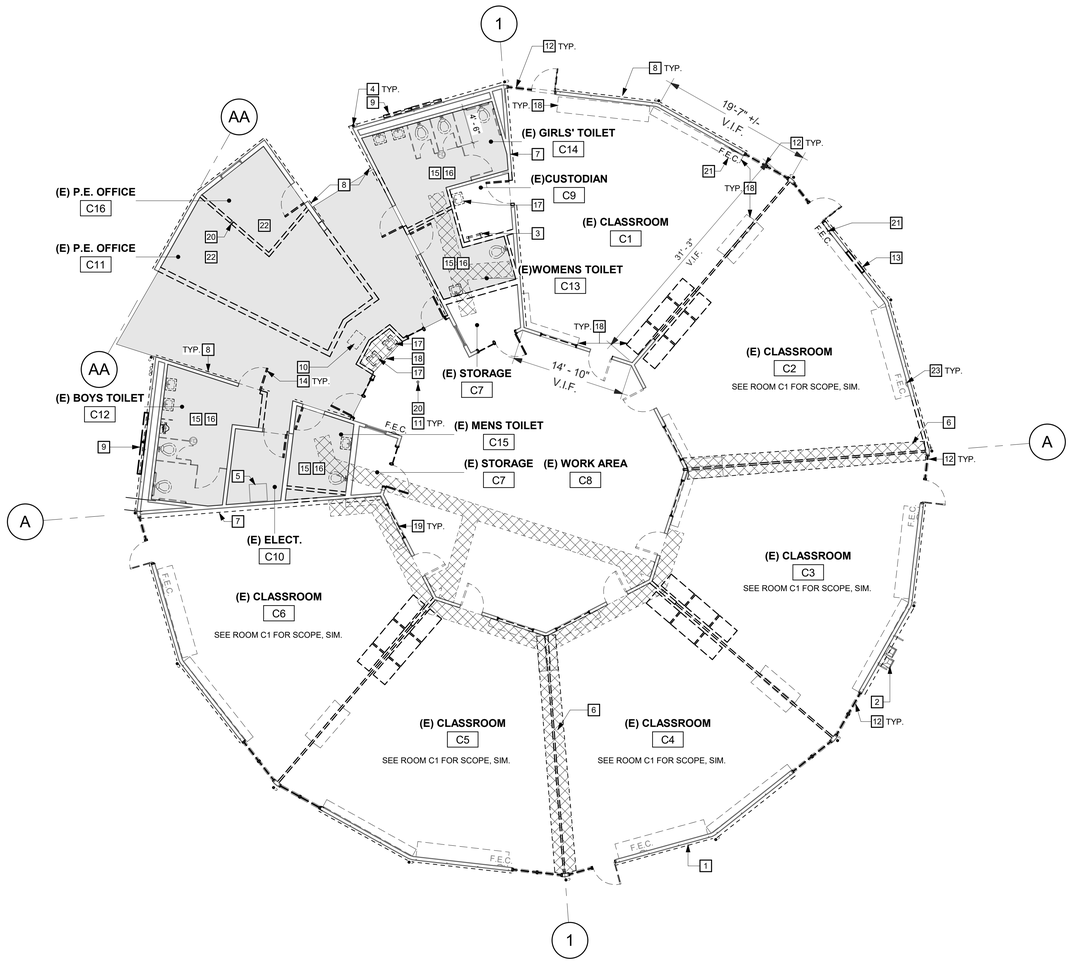
SHEET
SITE PLAN

DATE 02/15/2022
JOB # 2020029.02
SHEET # A1.02



1 **BUILDING C - DEMOLITION FLOOR PLAN**
SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

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

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

C VERIFY LIMITS OF DEMOLITION WITH SCOPE OF NEW WORK PRIOR TO COMMENCING WORK.

D ALL ITEMS SHOWN DASHED ARE TO BE DEMOLISHED UNLESS OTHERWISE NOTED ON PLANS.

E REMOVE ALL MISCELLANEOUS TRIM, CASEWORK, EQUIPMENT, CONDUIT, BASES, AND OTHER SURFACE MOUNTED ITEMS WHETHER SHOWN OR NOT ON PARTITIONS TO BE DEMOLISHED. REMOVE AND CAP ALL OUTLETS, SWITCHES, WIRES, THERMOSTATS, ETC. TO THEIR SOURCE AS REQUIRED. SEE CONSULTANTS' DRAWINGS FOR ADDITIONAL INFORMATION AND SCOPE OF WORK.

F EXISTING EQUIPMENT INDICATED TO BE RELOCATED PER NEW PLAN IS TO BE STORED AND PROTECTED DURING CONSTRUCTION.

G NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA

H REMOVE ALL (E) CURB AT THE EXISTING WALLS TO BE REMOVED. PATCH AND PREPARE THE FLOOR TO RECEIVE NEW FINISH.

DEMOLITION PLAN KEYNOTES

1 REMOVE (E) BUILDING SIGNAGE "C"
2 REMOVE (E) DRINKING FOUNTAIN AND PREPARE FOR THE INSTALLATION OF NEW DRINKING FOUNTAIN.
3 (E) ROOF LADDER TO BE REMOVED.
4 (E) RWL TO BE REMOVED.
5 (E) TRANSFORMER
6 TRENCH FOR PLUMBING & NEW FOUNDATION, S.M.D. & S.S.D.
7 REMOVE (E) WALL FINISH FOR PLYWOOD INSTALLATION, S.S.D.
8 REMOVE (E) EXTERIOR WALL WOOD SIDING & TRIM, TYPICAL
9 REMOVE (E) BULLETIN BOARD RETURN TO SCHOOL DISTRICT
10 REMOVE (E) CHRISTY BOX AND DEMOLISH EXISTING PIPES TO SOURCE
11 REMOVE (E) FLOOR FINISH.
12 REMOVE (E) STOREFRONT.
13 REMOVE PORTION OF (E) WALL, PREP FOR NEW WINDOW INSTALLATION.
14 REMOVE (E) DOOR AND FRAME
15 REMOVE (E) TOILET, SINK, PARTITION AND ALL THE ACCESSORIES.
16 REMOVE (E) CERAMIC TILE AND SUBSTRATE AT WALL AND FLOOR. PATCH AND PREPARE TO RECEIVE NEW FINISHES.
17 REMOVE (E) SINK.
18 REMOVE (E) CASEWORK.
19 REMOVE (E) WINDOW.
20 (E) COLUMN TO REMAIN, PAINTED, TYP.
21 REMOVE (E) FIRE EXTINGUISHER
22 REMOVE ALL (E) PERMANENT SHELVING.
23 (E) FIRE EXTINGUISHER TO REMAIN, PROTECT DURING CONSTRUCTION

GRAPHIC KEY

EXISTING WALL TO BE DEMOLISHED.

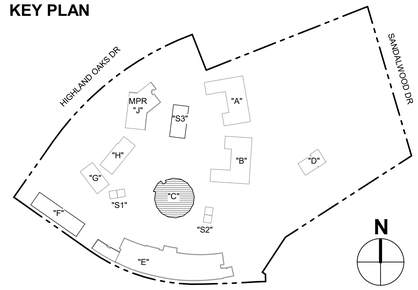
EXISTING WALL TO REMAIN.

REMOVE (E) DOOR, DOOR FRAME AND ALL ASSOCIATED HARDWARE U.O.N., REFER TO KEYNOTES FOR ADDITIONAL INFORMATION

3'-0" MIN. TRENCH AREA, S.S.D. AND S.P.D.

PREP THE AREA FOR TOPPING SLAB

KEY PLAN



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119816 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 02/25/2022

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387 S. 1st Street, Suite 300
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PROJECT

LYDIKSEN ELEMENTARY SCHOOL MODERNIZATION

PLEASANTON UNIFIED SCHOOL DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT — STATE OF CALIFORNIA — 29818 — EXP. 08-31-2023

STATE
DSA FILE NUMBER 1-32
APPL # 01-119816

REVISIONS

No.	Description	Date

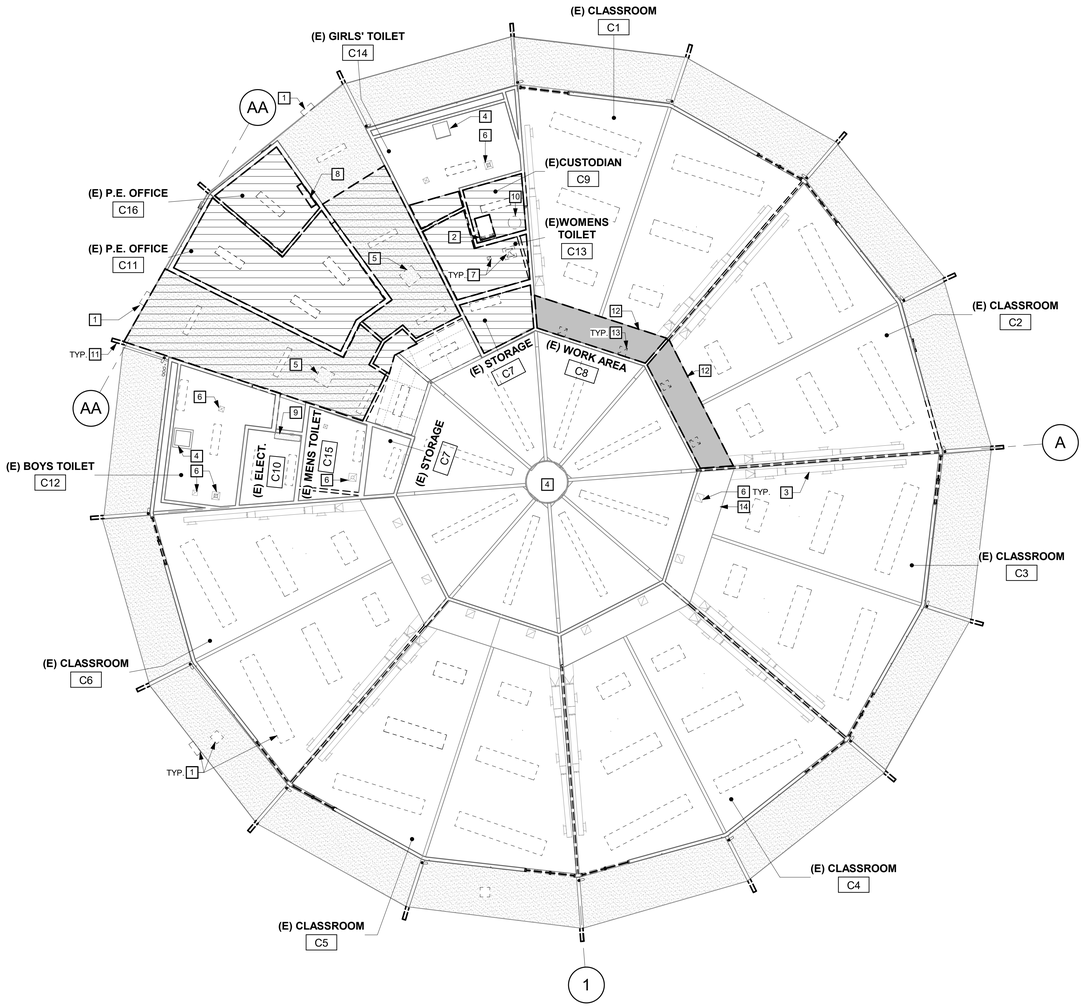
MILESTONES

SD	06/28/2021
DD	08/23/2021
50% CD	09/20/2021
90% CD	10/14/2021
DSA SUB	10/19/2021

SHEET

DEMOLITION FLOOR PLAN

DATE 02/15/2022
JOB # 2020029.02
SHEET # A2.01



1 BUILDING C - REFLECTED CEILING DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

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

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

C REFER TO FINISH SCHEDULE ON SHEET A11.01 FOR CEILING FINISHES NOT SHOWN

D DEMOLITION SHALL NOT BEGIN UNTIL PLANS(INCLUDING THE DEMOLITION WORK) HAVE BEEN APPROVED BY DSA

E REMOVE EXISTING FLASHING FROM THE TOP OF THE EXTERIOR WALL UNDERNEATH THE SOFFIT. EXTERIOR CEMENT PLASTER TO REMAIN AND PROTECTED. VERIFY LOCATION ON SITE.REFER TO DETAIL 14/A8.10 FOR THE NEW CONDITION

DEMOLITION REFLECTED CEILING PLAN KEYNOTES

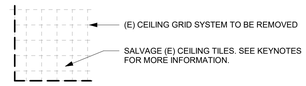
1 REMOVE (E) LIGHT FIXTURES, S.E.D.
2 (E) ROOF HATCH TO BE REMOVED AND INFILLED SEE DETAIL 19/A8.11.
3 (E) DUCT WORK, S.M.D.
4 (E) SKYLIGHT TO REMAIN AND PROTECTED DURING CONSTRUCTION.
5 REMOVE (E) SKYLIGHT, PREP TO RECEIVE TUBULAR SKYLIGHT
6 (E) CEILING REGISTER TO REMAIN, S.M.D.
7 (E) CEILING REGISTER TO BE REMOVED, S.M.D.
8 (E) SPLIT SYSTEM TO BE REMOVED, S.M.D.
9 (E) SPLIT SYSTEM TO REMAIN, S.M.D.
10 (E) WATER HEATER TO BE REMOVED, S.P.D.
11 CUT THE EXISTING GLULAM BEAM UP TO THE EXISTING ROOF FASCIA PREPARE TO RECIEVE GSM FLASHING CAP.
12 DEMO (E) GYP. BRD AT SOFFIT. PREP THE AREA FOR THE REMOVAL AND INSTALLATION OF NEW MECH. DUCTS. REFER TO MECH. DRAWING
13 REMOVE (E) CEILING REGISTER, S.M.D.
14 (E) SOFFIT, PAINTED TYP.

GRAPHIC KEY

(10'-0") CEILING HEIGHT.

(B.O.S.) BOTTOM OF ROOF DECK.

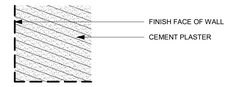
(E) SUSPENDED A.C.T. CEILING SYSTEM TO BE REMOVED



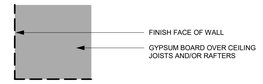
(E) GYP BOARD CEILING TO REMAIN, PAINTED, TYP.

(E) GYP BOARD CEILING TO BE REMOVED

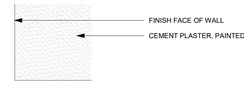
(E) CEMENT PLASTER TO BE REMOVED



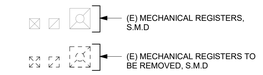
(E) GYP BOARD TO BE REMOVED



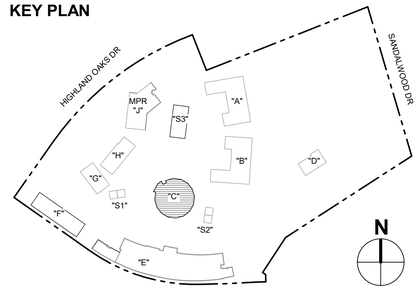
(E) CEMENT PLASTER TO REMAIN, PAINTED



MECHANICAL SYMBOLS



KEY PLAN



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PROJECT
LYDIKSEN ELEMENTARY SCHOOL MODERNIZATION

PLEASANTON UNIFIED SCHOOL DISTRICT

CONSULTANT

STAMP
LICENSED ARCHITECT JOSEPH A. DAVIS No. C-31812 STATE OF CALIFORNIA

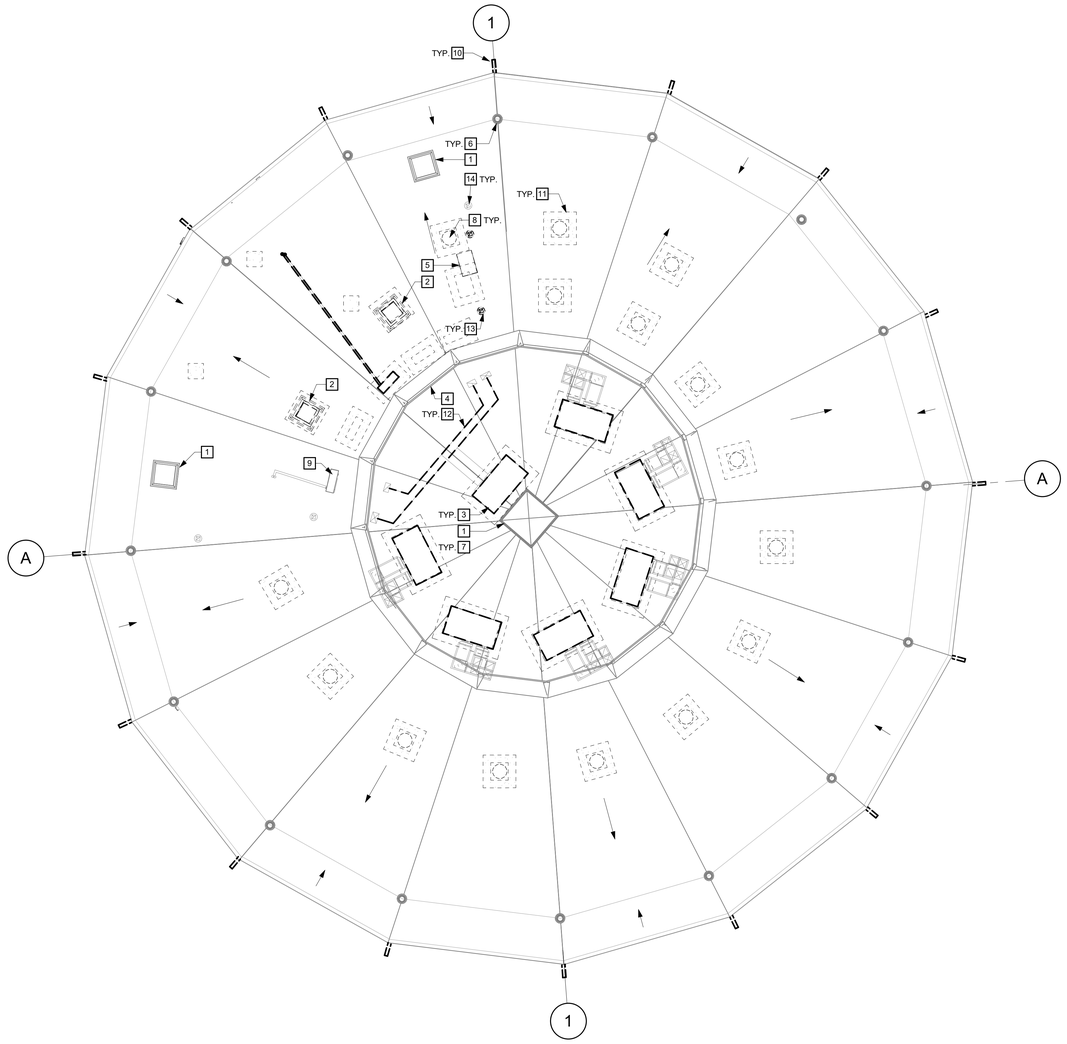
STATE
DSA FILE NUMBER 1-32
APPL # 01-119816

REVISIONS
No. Description Date

MILESTONES
SD 06/28/2021
DD 08/23/2021
50% CD 09/20/2021
90% CD 10/14/2021
DSA SUB 10/19/2021

SHEET
DEMOLITION REFLECTED CEILING PLAN

DATE 02/15/2022
JOB # 2020029.02
SHEET # A2.02



1 **BUILDING C-DEMOLITION ROOF PLAN**
SCALE: 1/8" = 1'-0"

N

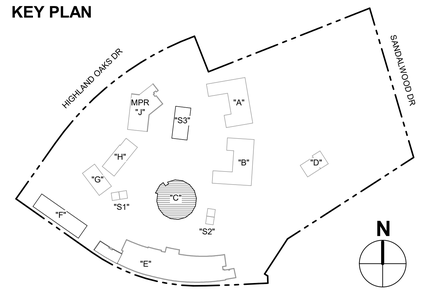
GENERAL SHEET NOTES

A	ROOM NAMES OR NUMBERS MAY NOT BE CONSISTENT BETWEEN DEMOLITION AND NEW PLANS
B	REFER TO STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR EXTENT OF STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL WORK.
C	REFER TO FINISH SCHEDULE ON SHEET A11.01 FOR CEILING FINISHES NOT SHOWN
D	DEMOLITION SHALL NOT BEGIN UNTIL PLANS(INCLUDING THE DEMOLITION WORK) HAVE BEEN APPROVED BY DSA
E	REMOVE EXISTING FLASHING FROM THE TOP OF THE EXTERIOR WALL UNDERNEATH THE SOFFIT. EXTERIOR CEMENT PLASTER TO REMAIN AND PROTECTED. VERIFY LOCATION ON SITE.REFER TO DETAIL 14/A8.10 FOR THE NEW CONDITION

DEMOLIITON REFLECTED CEILING PLAN KEYNOTES

1	(E) SKYLIGHT TO REMAIN AND PROTECTED DURING CONSTRUCTION.
2	REMOVE (E) SKYLIGHT, PREP TO RECEIVE TUBULAR SKYLIGHT
3	(E) MECHANICAL UNIT TO BE REPLACED, REFER TO MECHANICAL DRAWINGS.
4	(E) MECHANICAL EQUIPMENT SCREEN TO REMAIN, PAINTED, TYP.
5	(E) ROOF HATCH TO BE REMOVED AND INFILLED SEE DETAIL 19/A8.11.
6	(E) ROOF DRAIN TO REMAIN, TYP. CLEAN AND PROTECT DURING CONSTRUCTION
7	(E) ROOFING TO REMAIN AND PROTECTED DURING CONSTRUCTION, TYP.
8	REMOVE EXISTING ROOFING FOR THE LOCATION OF NEW TUBULAR SKYLIGHT, REFER TO REFLECTED CEILING PLANS AND STRUCTURAL DRAWINGS.
9	(E) MECHANICAL UNIT TO REMAIN AND PROTECTED DURING CONSTRUCTION.
10	CUT THE EXISTING GLULAM BEAM UP TO THE EXISTING ROOF FASCIA PREPARE TO RECIEVE GSM FLASHING CAP.
11	REMOVE AND PREPARE BUILT-UP ROOFING FOR LOCATION OF NEW SKYLIGHT AND MECH EQUIPMENTS.
12	REMOVE (E) DUCT WORK, S.M.D.
13	REMOVE (E) ROOF CAP, S.M.D.
14	(E) EXHAUSTFAN/ROOF CAP TO REMAIN, S.M.D.

KEY PLAN



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DATE: 02/25/2022

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PROJECT

LYDIKSEN ELEMENTARY SCHOOL MODERNIZATION

PLEASANTON UNIFIED SCHOOL DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT
STATE OF CALIFORNIA
02/15/22

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DSA FILE NUMBER 1-32
APPL # 01-119816

REVISIONS

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MILESTONES

SD	06/28/2021
DD	08/23/2021
50% CD	09/20/2021
90% CD	10/14/2021
DSA SUB	10/19/2021

SHEET

DEMOLITION ROOF PLAN

DATE 02/15/2022
JOB # 2020029.02
SHEET # A2.04

2/16/2022 5:05:33 PM
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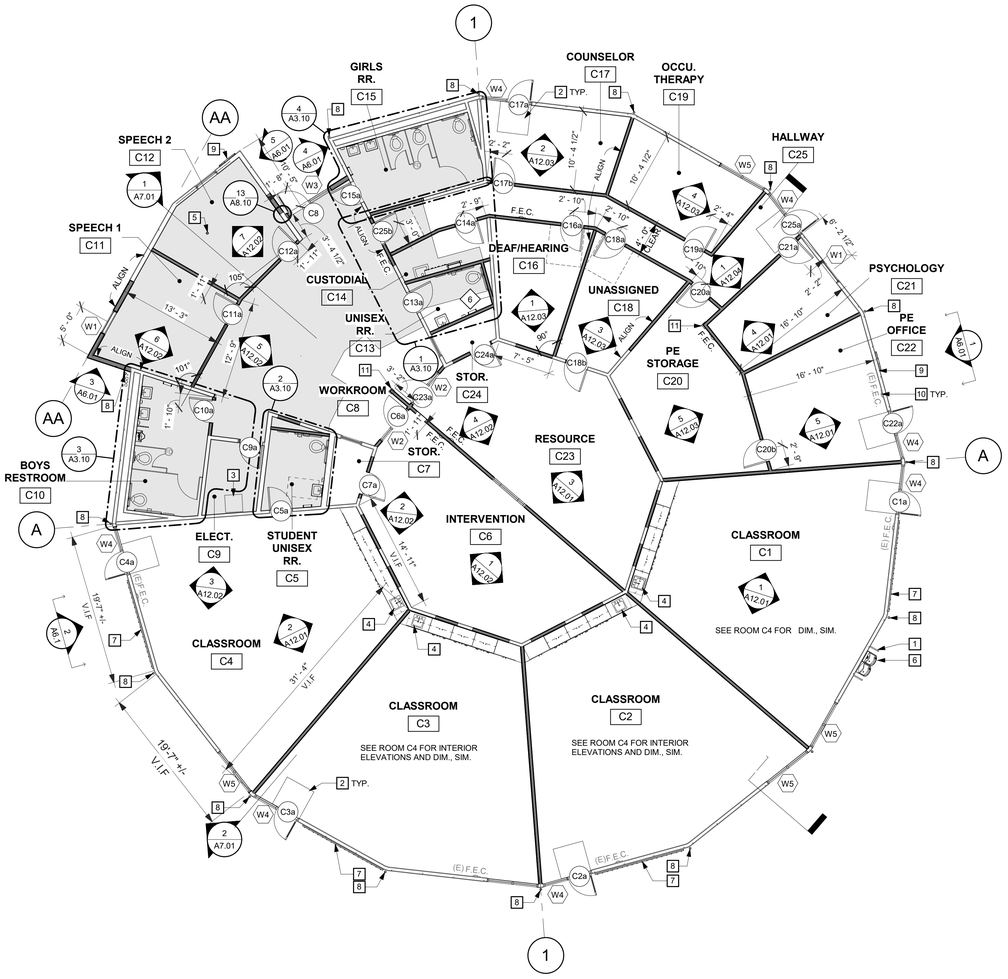


1 **BUILDING C - FLOOR PLAN**
SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

I EXISTING PLUMBING NOT IN USE FOR THE PROPOSED DESIGN, TO BE REMOVED. PATCH AND PREPARE THE WALL TO RECIEVE NEW FINISHES

J PROVIDE 6" CONCRETE CURB AT ALL EXTERIOR WALLS AND TOILET ROOM WALLS.

K PROVIDE WALL BLOCKING AT ALL TOILET FIXTURE AND ACCESSORY MOUNTING LOCATIONS AS REQUIRED.

L ALL TOILET ROOM STUD WALLS SHALL HAVE NEW SOUND ATTENUATION INSULATION.

M WATER SUPPLY AND DRAIN PIPES ACCESSIBLE UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE OBJECTS OR SURFACES UNDER LAVATORIES, TYP.

N REFER TO FINISH PLAN AND SCHEDULE FOR IDENTIFICATION OF ALL FINISHES.

P PATCH EXISTING GYPBOARD CEILING AT NEW WALLS .

NEW FLOOR PLAN KEYNOTES

1 (E) 18" DX 36"H ALCOVE RAIL TO REMAIN AND PROTECTED DURING THE CONSTRUCTION, PAINTED. DSA #01-106905.
2 LINE OF 4'X4' GLUE DOWN WALK-OFF MAT AT EXTERIOR DOOR ENTRY
3 (E) TRANSFORMER
4 D.A. SINK, S.P.D & DETAIL 3/A11.02
5 (E) COLUMN TO REMAIN, PAINTED, TYP.
6 D.A. HI-LOW DRINKING FOUNTAIN WITH HYDRATION STATION; SEE DETAIL 6/A8.10
7 BACKPACK HOOK RACK, SEE DETAIL 5/A8.10.
8 3" DIA. RWL, SEE FLOOR PLAN AND DETAILS 7/A8.10 & 9/A8.10.
9 BUILDING NAME SIGNAGE, 36" HIGH ARIAL FONT, PAINT TYP.
10 (E) FIRE EXTINGUISHER TO REMAIN, PROTECT DURING CONSTRUCTION
11 4'-0" HIGH CORNER GUARD, SEE DETAIL 5/A9.06.

GRAPHIC KEY

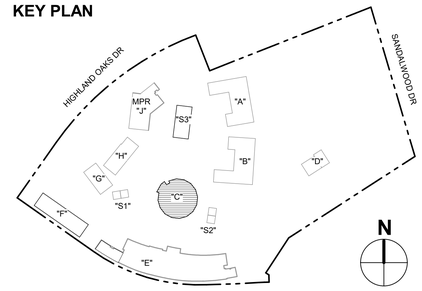
NEW STUD WALL.
EXSTING STUD WALL.

FIXTURE TYPES:

NEW SEMI RECESSED FIRE EXTINGUISHER CABINET.
EXISTING SEMI RECESSED FIRE EXTINGUISHER CABINET.
F.E.C. (E) F.E.C.
FIRE EXTINGUISHER CABINET

CONCRETE TOPPING SLAB TO MATCH (E) FINISH FLOOR AT RESOURCE AND INTERVENTION ROOM.

KEY PLAN



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PROJECT

LYDIKSEN ELEMENTARY SCHOOL MODERNIZATION

PLEASANTON UNIFIED SCHOOL DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT
C-28617
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

STATE
DSA FILE NUMBER 1-32
APPL # 01-119816

REVISIONS

No.	Description	Date

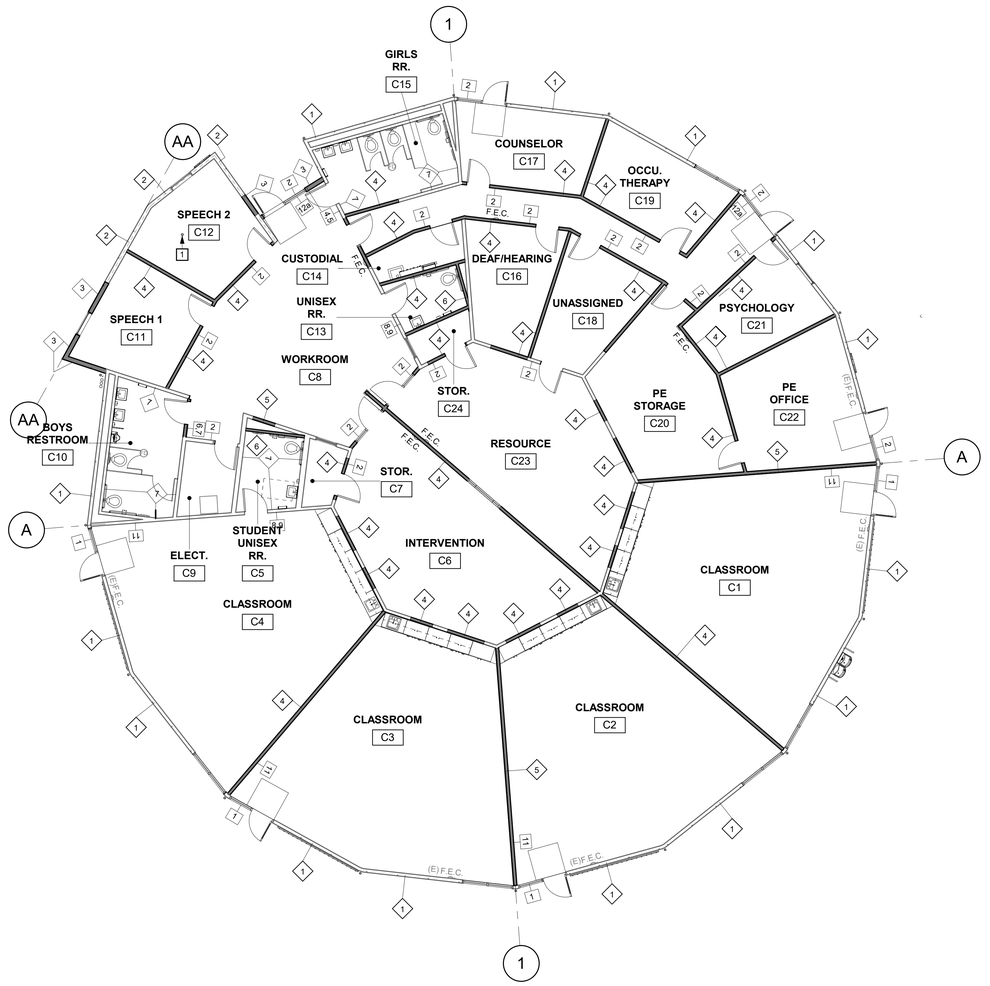
MILESTONES

SD	06/28/2021
DD	08/23/2021
50% CD	09/20/2021
90% CD	10/14/2021
DSA SUB	10/19/2021

SHEET

BUILDING C - FLOOR PLAN

DATE 02/15/2022
JOB # 2020029.02
SHEET # A3.01



1 BUILDING C - WALL TYPES AND SIGNAGE PLAN
SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

I EXISTING PLUMBING NOT IN USE FOR THE PROPOSED DESIGN. TO BE REMOVED. PATCH AND PREPARE THE WALL TO RECIEVE NEW FINISHES

J PROVIDE 6" CONCRETE CURB AT ALL EXTERIOR WALLS AND TOILET ROOM WALLS.

K PROVIDE WALL BLOCKING AT ALL TOILET FIXTURE AND ACCESSORY MOUNTING LOCATIONS AS REQUIRED.

L ALL TOILET ROOM STUD WALLS SHALL HAVE NEW SOUND ATTENUATION INSULATION.

M WATER SUPPLY AND DRAIN PIPES ACCESSIBLE UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE OBJECTS OR SURFACES UNDER LAVATORIES, TYP.

N REFER TO FINISH PLAN AND SCHEDULE FOR IDENTIFICATION OF ALL FINISHES.

P PATCH EXISTING GYPBOARD CEILING AT NEW WALLS .

GRAPHIC KEY

WALL TYPES:

WALL TYPE, REFER TO A9.01

SIGNAGE TYPE, REFER TO A10.01

NEW STUD WALL.

EXSTING STUD WALL.

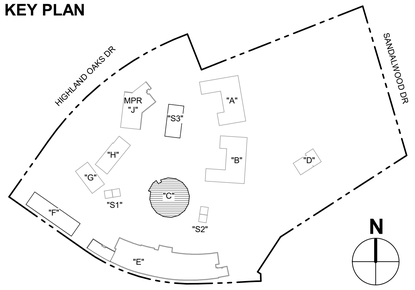
FIXTURE TYPES:

NEW SEMI RECESSED FIRE EXTINGUISHER CABINET.

EXISTING SEMI RECESSED FIRE EXTINGUISHER CABINET.

FIRE EXTINGUISHER CABINET

KEY PLAN



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STATE OF CALIFORNIA

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DSA FILE NUMBER 1-32

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DSA SUB	10/19/2021

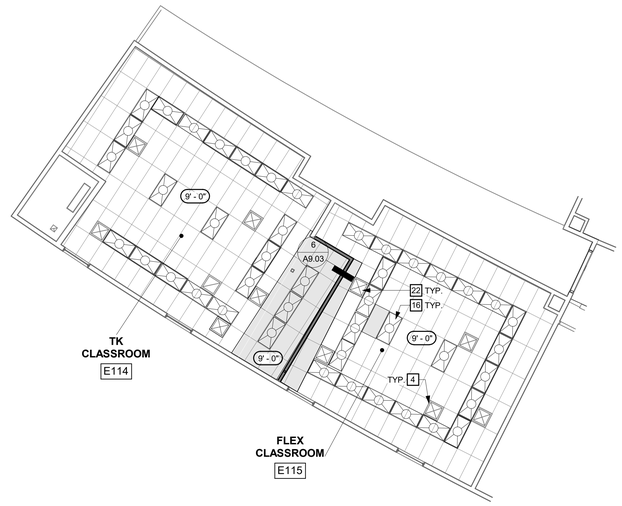
SHEET

BUILDING C- WALL TYPES AND SIGNAGE PLAN

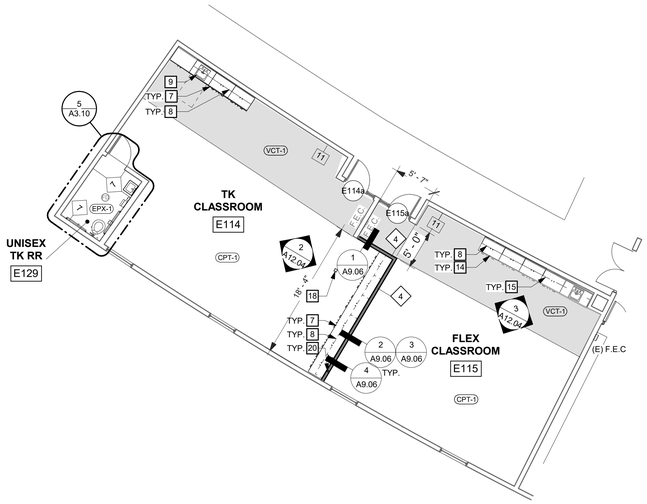
DATE 02/15/2022

JOB # 2020029.02

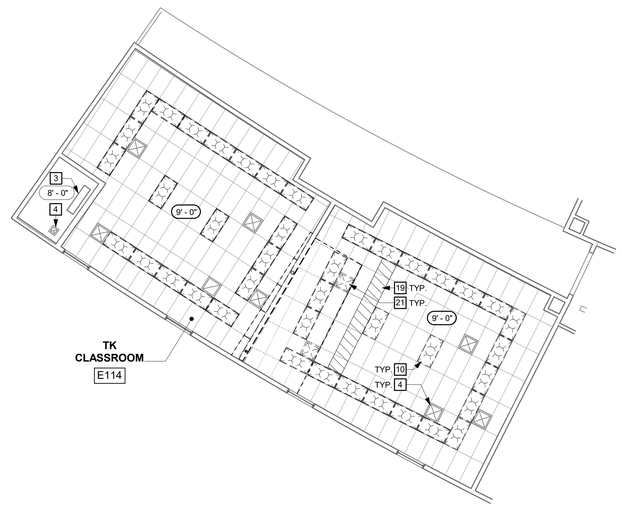
SHEET # A3.02



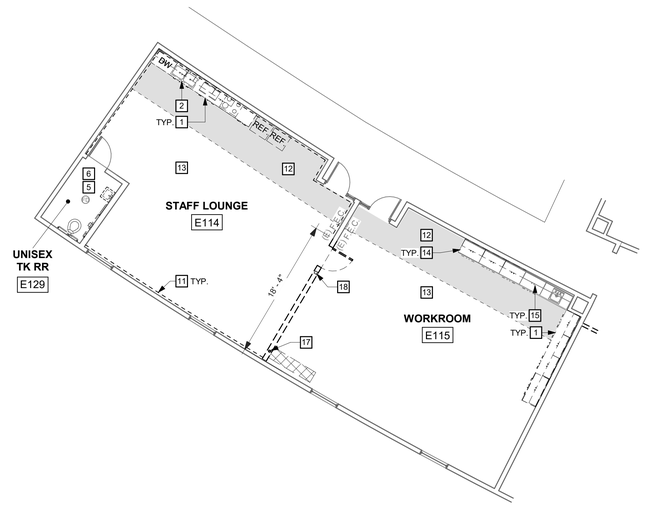
4 BUILDING E- REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"



3 BUILDING E - FLOOR PLAN
SCALE: 1/8" = 1'-0"



2 BUILDING E- REFLECTED CEILING DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



1 BUILDING E - DEMOLITON FLOOR PLAN
SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

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

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

C VERIFY LIMITS OF DEMOLITION WITH SCOPE OF NEW WORK PRIOR TO COMMENCING WORK.

D ALL ITEMS SHOWN DASHED ARE TO BE DEMOLISHED UNLESS OTHERWISE NOTED ON PLANS.

E REMOVE ALL MISCELLANEOUS TRIM, CASEWORK, EQUIPMENT, CONDUIT, BASES, AND OTHER SURFACE MOUNTED ITEMS WHETHER SHOWN OR NOT ON PARTITIONS TO BE DEMOLISHED. REMOVE AND CAP ALL OUTLETS, SWITCHES, WIRES, THERMOSTATS, ETC. TO THEIR SOURCE AS REQUIRED. SEE CONSULTANTS' DRAWINGS FOR ADDITIONAL INFORMATION AND SCOPE OF WORK.

F EXISTING EQUIPMENT INDICATED TO BE RELOCATED PER NEW PLAN IS TO BE STORED AND PROTECTED DURING CONSTRUCTION.

G NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA

H REMOVE ALL (E) CURB AT THE EXISTING WALLS TO BE REMOVED. PATCH AND PREPARE THE FLOOR TO RECEIVE NEW FINISH.

I EXISTING PLUMBING NOT IN USE FOR THE PROPOSED DESIGN, TO BE REMOVED. PATCH AND PREPARE THE WALL TO RECIEVE NEW FINISHES

J PROVIDE 6" CONCRETE CURB AT ALL EXTERIOR WALLS AND TOILET ROOM WALLS.

K PROVIDE WALL BLOCKING AT ALL TOILET FIXTURE AND ACCESSORY MOUNTING LOCATIONS AS REQUIRED.

L ALL TOILET ROOM STUD WALLS SHALL HAVE NEW SOUND ATTENUATION INSULATION.

M WATER SUPPLY AND DRAIN PIPES ACCESSIBLE UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE OBJECTS OR SURFACES UNDER LAVATORIES, TYP.

N REFER TO FINISH PLAN AND SCHEDULE FOR IDENTIFICATION OF ALL FINISHES.

P PATCH EXISTING GYPBOARD CEILING AT NEW WALLS .

Q EXISTING SIGNAGE TO REMAIN AND PROTECTED DURING CONSTRUCTION

KEYNOTES

1 REMOVE (E) CASEWORK.
2 REMOVE (E) SINK.
3 (E) LIGHT
4 (E) CEILING REGISTER TO REMAIN, S.M.D.
5 REMOVE (E) CERAMIC TILE AND SUBSTRATE AT WALL AND FLOOR. PATCH AND PREPARE TO RECEIVE NEW FINISHES.
6 REMOVE (E) TOILET, SINK, PARTITION AND ALL THE ACCESSORIES.
7 COUNTERTOP AND BASE CABINETS, REFER TO ATTACHMENT DETAILS, 12/A11.02
8 UPPER WALL CABINETS, REFER TO ATTACHMENT DETAILS, 12/A11.02.
9 D.A. SINK, S.P.D & DETAIL 3/A11.02
10 REMOVE (E) LIGHT FIXTURES, S.E.D.
11 REMOVE EXISTING WALL FINISH.
12 (E) VCT TO BE REPLACED.
13 (E) CARPET TO BE REPLACED.
14 (E) BASE CABINET TO REMAIN AND PROTECTED
15 (E) WALL CABINET TO REMAIN AND PROTECTED
16 LIGHT FIXTURE, S.E.D
17 (E) DOWN SPOUT TO RELOCATED
18 (E) STRUCTURAL POST TO REMAIN, PRIMED AND PAINTED TYP.
19 REMOVE (E) CEILING TILE FOR PLACEMENT OF FUTURE LIGHT FIXTURE, S.E.D.
20 DOWNSPOUT, S.P.D.
21 (E) CEILING REGISTER TO REMAIN, S.M.D.
22 CEILING REGISTER, S.M.D.

GRAPHIC KEY

TRENCH AREA, S.P.D.
EXISTING WALL TO BE DEMOLISHED.
EXISTING WALL TO REMAIN.
NEW WALL, SEE WALL TYPES.
B.O.S. BOTTOM OF ROOF DECK.
10'-0" CEILING HEIGHT.

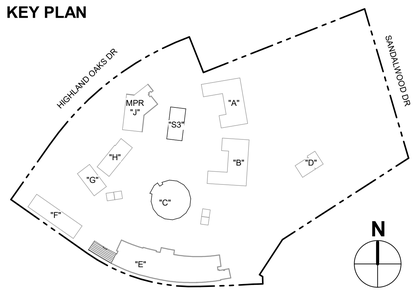
SUSPENDED A.C.T. CEILING SYSTEM
CEILING GRID SYSTEM
CEILING TILES. SEE KEYNOTES FOR MORE INFORMATION.

(E) SUSPENDED A.C.T. CEILING SYSTEM TO BE REMOVED
CEILING GRID SYSTEM TO BE REMOVED.
CEILING TILES TO BE REMOVED.

(E) SUSPENDED A.C.T. CEILING SYSTEM
CEILING GRID SYSTEM
CEILING TILES. SEE KEYNOTES FOR MORE INFORMATION.

(E) GYP BOARD CEILING TO REMAIN AND PAINTED, TYP. SEE FINISH SCHEDULE.
FINISH FACE OF WALL
GYPSUM BOARD OVER CEILING JOISTS AND/OR RAFTERS

KEY PLAN



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APP: 01-119816 INC:
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PROJECT
LYDIKSEN ELEMENTARY SCHOOL MODERNIZATION

PLEASANTON UNIFIED SCHOOL DISTRICT

CONSULTANT

STAMP
LICENSED ARCHITECT 29818 STATE OF CALIFORNIA

STATE
DSA FILE NUMBER 1-32
APPL # 01-119816

REVISIONS

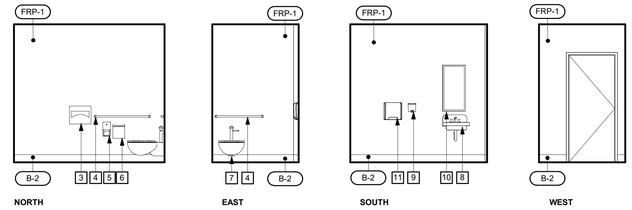
No.	Description	Date

MILESTONES

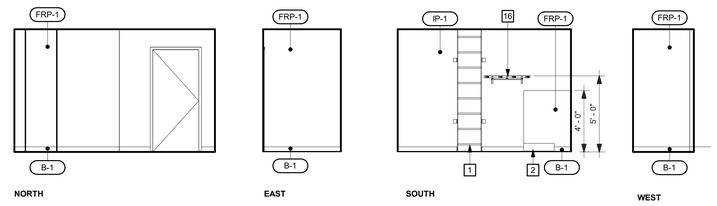
SD	06/28/2021
DD	08/23/2021
50% CD	09/20/2021
90% CD	10/14/2021
DSA SUB	10/19/2021

SHEET
BUILDING E - FLOOR & RCP DEMOLIITON PLAN

DATE 02/15/2022
JOB # 2020029.02
SHEET # A3.03



6 STAFF RESTROOM - C13 - INTERIOR ELEVATIONS
SCALE: 1/4" = 1'-0"



7 CUSTODIAN - C14 - INTERIOR ELEVATIONS
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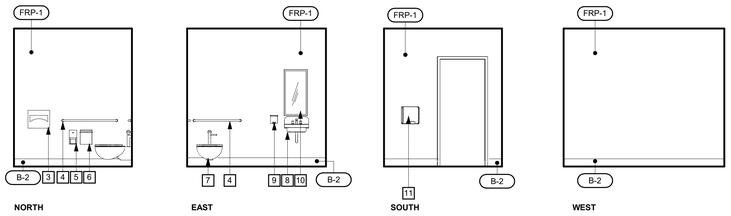
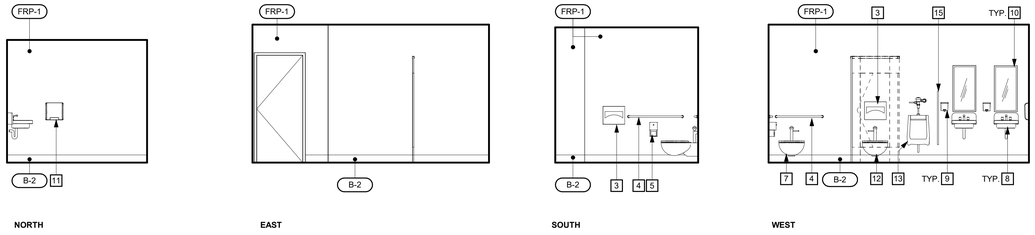


8 UNISEX RESTROOM - C5 - INTERIOR ELEVATIONS
SCALE: 1/4" = 1'-0"



9 BOYS RR- C10 - INTERIOR ELEVATIONS
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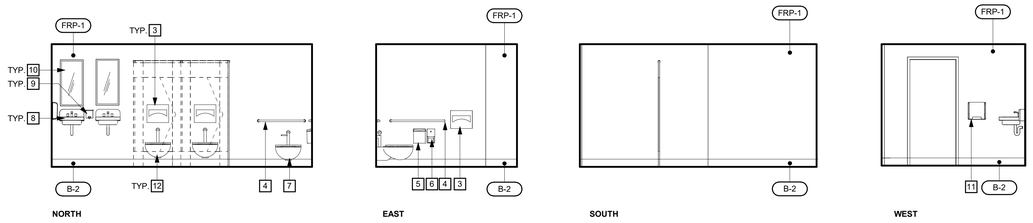
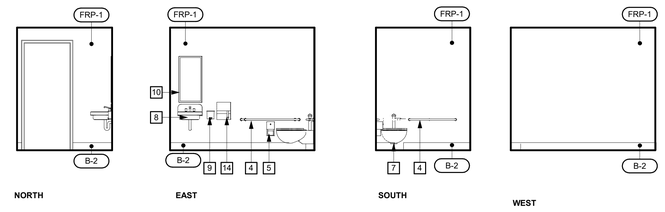
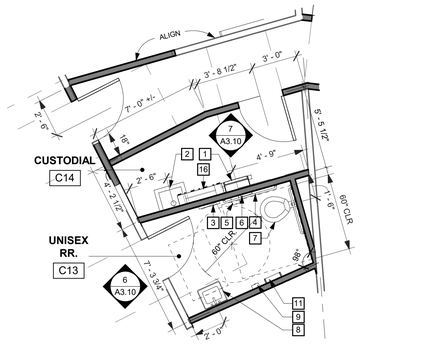


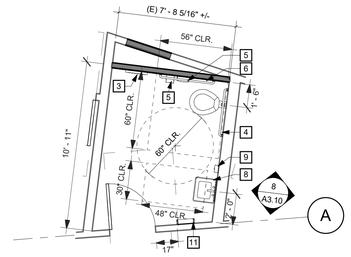
10 GIRLS RR - C15 - INTERIOR ELEVATIONS
SCALE: 1/4" = 1'-0"



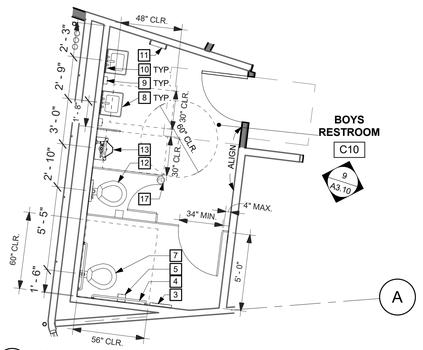
20 UNISEX TK RR - E129- INTERIOR ELEVATIONS
SCALE: 1/4" = 1'-0"



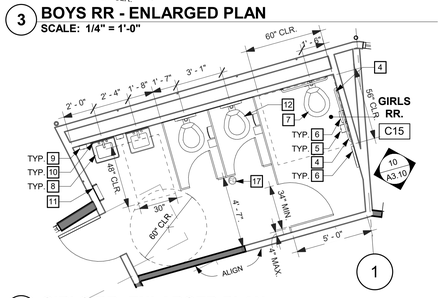
1 CUSTODIAN & STAFF RR - ENLARGED FLOOR PLAN
SCALE: 1/4" = 1'-0"



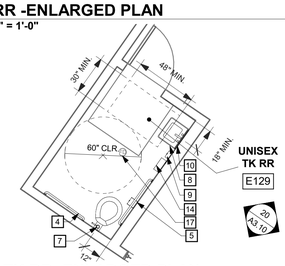
2 STUDENT UNISEX RR - ENLARGED PLAN
SCALE: 1/4" = 1'-0"



3 BOYS RR - ENLARGED PLAN
SCALE: 1/4" = 1'-0"



4 GIRLS RR -ENLARGED PLAN
SCALE: 1/4" = 1'-0"



5 UNISEX TK RR- ENLARGED PLAN
SCALE: 1/4" = 1'-0"

GENERAL SHEET NOTES

A FOR INTERIOR FINISHES NOT SHOWN ON ELEVATIONS REFER TO INTERIOR FINISH SCHEDULE.

B CABINET ELEVATIONS AS SHOWN IN THE INTERIOR ELEVATIONS ARE FOR REFERENCE ONLY. ACTUAL CABINET DESIGN CRITERIA AND SIZES ARE DESIGNATED IN THE CASEWORK SCHEDULE USING THE WOODWORK INSTITUTES' "CABINET DESIGN SERIES (CDS)" NUMBERING SYSTEM, WHERE INDIVIDUAL CASEWORK DESIGN REQUIREMENTS DO NOT FIT WITHIN THE CDS NUMBERING SYSTEM CABINETS ARE DETAILED SEPARATELY AS REFERENCED IN THE CASEWORK SCHEDULE.

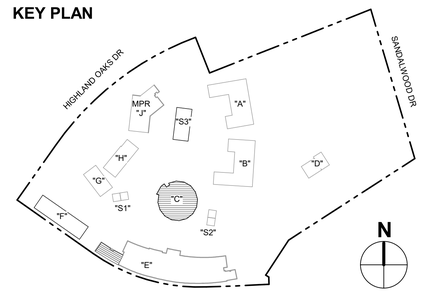
C ALL EXPOSED CONDUITS AND PIPES SHALL BE PAINTED U.O.N.

D ALL EXPOSED STRUCTURE AND CEILING BE PAINTED U.O.N.

ENLARGED RESTROOM PLANS KEYNOTES

1 ROOF HATCH & LADDER, SEE DETAIL 18/A9.05
2 MOP SINK, S.P.D.
3 TOILET SEAT COVER DISPENSER TYP., OFCI. REFER TO TYPICAL FIXTURE MOUNTING HEIGHTS AT DETAIL 10/A9.05
4 GRAB BARS, 36" AT BACK WALL & 42" AT SIDE WALL. REFER TO TYPICAL FIXTURE MOUNTING HEIGHTS AT DETAIL 10/A9.05 AND ANCHORAGE DETAIL 9/A9.05
5 TOILET PAPER DISPENSER, OFCI. REFER TO TYPICAL FIXTURE MOUNTING HEIGHTS AT DETAIL 10/A9.05
6 SANITARY NAPKIN DISPOSAL, REFER TO TYPICAL FIXTURE MOUNTING HEIGHTS AT DETAIL 10/A9.05
7 D.A. WATER CLOSET, REFER TO PLUMBING DWGS.
8 LAVATORY, S.P.D. & DETAIL 14/A9.05.
9 SOAP DISPENSER, OFCI. REFER TO TYPICAL FIXTURE MOUNTING HEIGHTS AT DETAIL 10/A9.05
10 36"X18" MIRROR, REFER TO TYPICAL FIXTURE MOUNTING HEIGHTS AT DETAIL 10/A9.05 AND ANCHORAGE DETAIL 5/A9.05.
11 HAND DRYER
12 WALL MOUNTED WATER CLOSET, REFER TO TYPICAL FIXTURE MOUNTING HEIGHTS AT DETAIL 10/A9.05
13 D.A. URINAL, REFER TO TYPICAL FIXTURE MOUNTING HEIGHTS AT DETAIL 10/A9.05
14 PAPER TOWEL DISPENSER, OFCI. REFER TO TYPICAL FIXTURE MOUNTING HEIGHTS AT DETAIL 10/A9.05
15 URINAL SCREEN, SEE DETAIL 15/A9.05.
16 MOP RACK.
17 (E) FLOOR DRAIN TO REMAIN.

KEY PLAN



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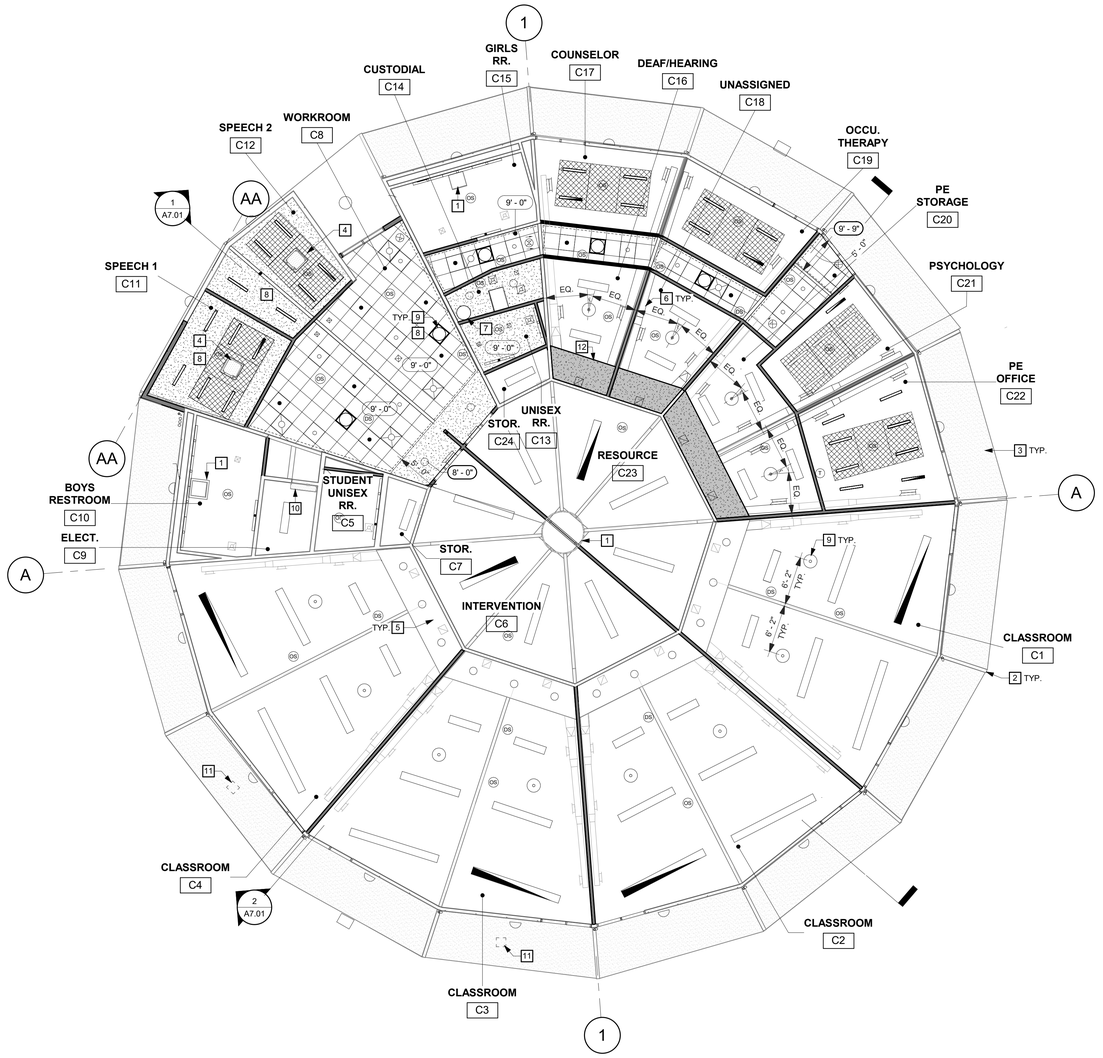
SHEET

ENLARGED RESTROOM PLANS AND ELEVATIONS

DATE 02/15/2022
JOB # 2020029.02
SHEET # A3.10



1 BUILDING C- REFLECTED CEILING PLAN

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

GENERAL SHEET NOTES

A REFER TO FINISH SCHEDULE ON SHEET A11.01 FOR CEILING FINISHES NOT SHOWN.

NEW REFLECTED CEILING PLAN KEYNOTES

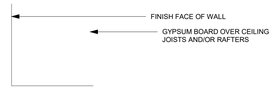
1 (E) SKYLIGHT TO REMAIN AND PROTECTED DURING CONSTRUCTION.
2 PROVIDE FLASHING OVER EXISTING MODIFIED GLULAM EDGE, SEE DETAIL 8/A8.11.
3 (E) SOFFIT, PAINTED TYP.
4 MECHANICAL EQUIPMENT, S.M.D.
5 (E) CEILING REGISTER TO REMAIN, S.M.D.
6 DUCT WORK, S.M.D.
7 WATER HEATER, S.P.D
8 PROVIDE INSULATION.
9 21" DIA. TUBULAR SKYLIGHT, SEE DETAIL 7/A8.11.
10 (E) SPLIT SYSTEM TO REMAIN, S.M.D.
11 PATCH WHERE LIGHT FIXTURES ARE REMOVED.
12 GYP. BRD. PAINTED, TYP. O/ (E) SOFFIT FRAMING.

GRAPHIC KEY

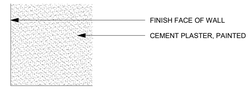
10'-0" CEILING HEIGHT.

B.O.S. BOTTOM OF ROOF DECK.

(E) GYP BOARD CEILING TO REMAIN, PAINTED, TYP.



(E) CEMENT PLASTER TO REMAIN, PAINTED

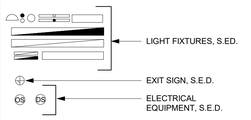


SUSPENDED A.C.T. CEILING SYSTEM

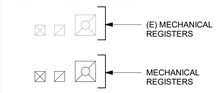
FRAMED GYP BOARD CEILING, PAINTED

ACOUSTICAL CEILING CLOUD, SEE DETAIL 5/A9.04

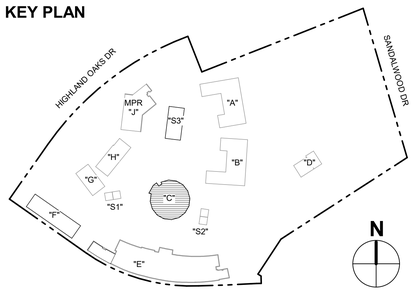
ELECTRICAL SYMBOLS



MECHANICAL SYMBOLS



KEY PLAN



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LICENSED ARCHITECT — STATE OF CALIFORNIA

STATE
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REVISIONS

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50% CD	09/20/2021
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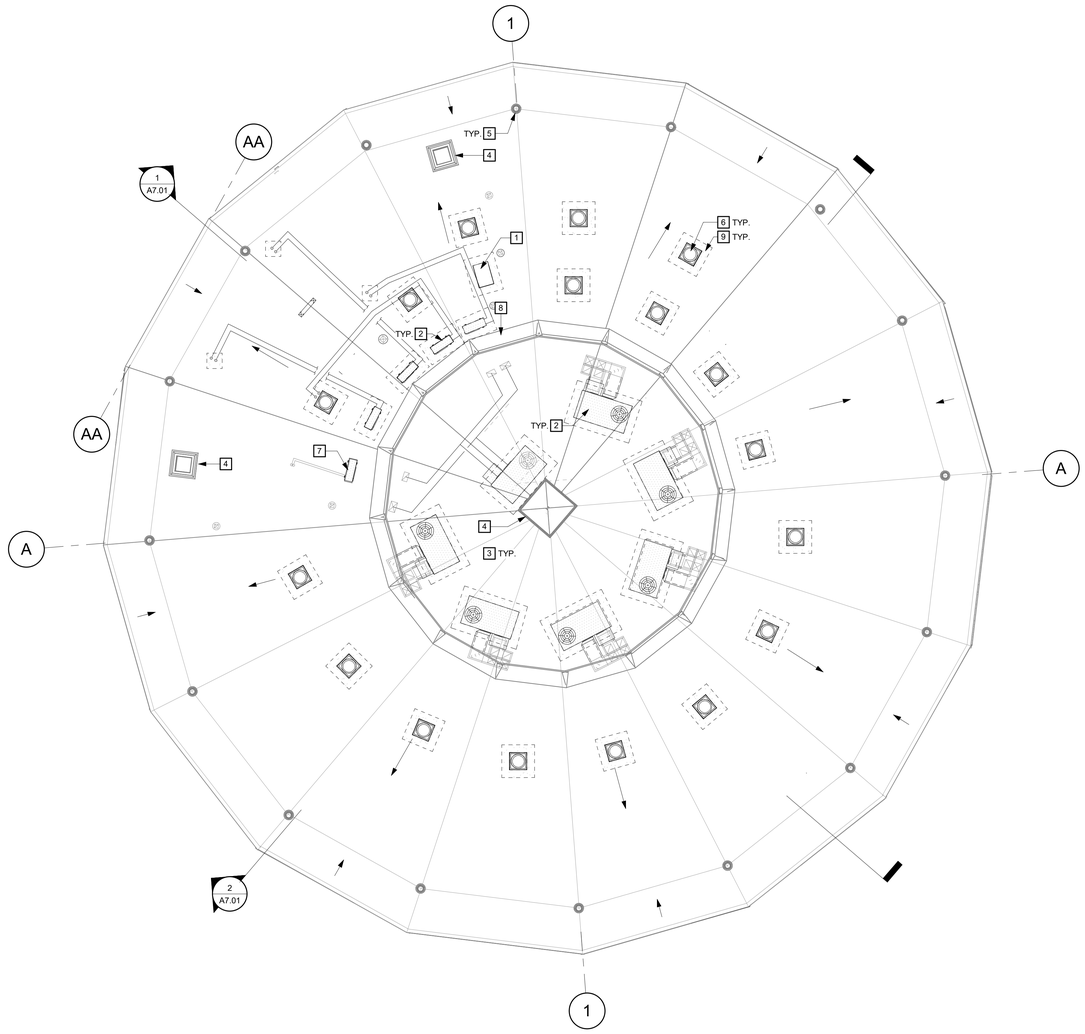
DSA SUB	10/19/2021

SHEET

BUILDING C - REFLECTED CEILING PLAN

DATE 02/15/2022
JOB # 2020029.02
SHEET # A4.01



1 **BUILDING C - ROOF PLAN**
SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

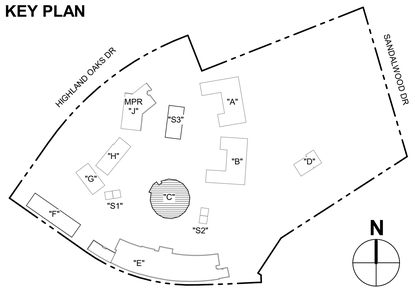
A REFER TO STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR EXTENT OF STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL WORK.

B ALL EXPOSED SHEET METAL SHALL BE KYNAR COATED ALUMINUM OR STAINLESS STEEL.

NEW ROOF PLAN KEYNOTES

1 ROOF HATCH, SEE DETAIL 18/A9.05.
2 MECHANICAL EQUIPMENT, S.M.D.
3 (E) ROOFING TO REMAIN AND PROTECTED DURING CONSTRUCTION, TYP.
4 (E) SKYLIGHT TO REMAIN AND PROTECTED DURING CONSTRUCTION.
5 (E) ROOF DRAIN TO REMAIN, TYP. CLEAN AND PROTECT DURING CONSTRUCTION
6 21" DIA. TUBULAR SKYLIGHT, SEE DETAIL 7/A8.11.
7 (E) MECHANICAL UNIT TO REMAIN AND PROTECTED DURING CONSTRUCTION.
8 (E) MECHANICAL EQUIPMENT SCREEN TO REMAIN, PAINTED, TYP.
9 REPAIR & PATCH BUILT-UP ROOFING TO MATCH (E) ADJACENT

KEY PLAN



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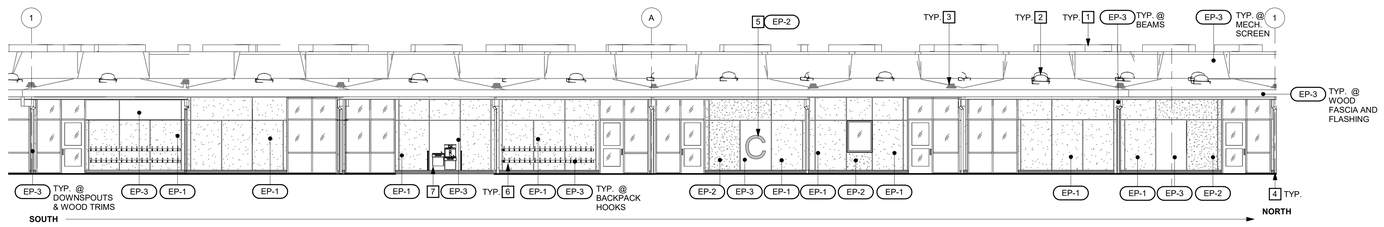
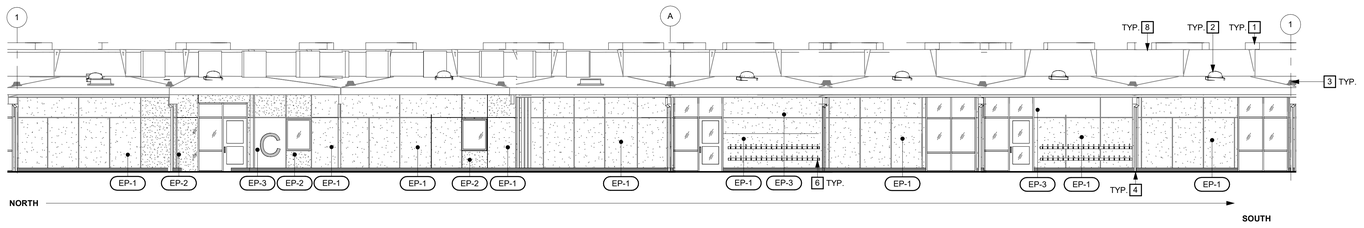
SHEET

BUILDING C - ROOF PLAN

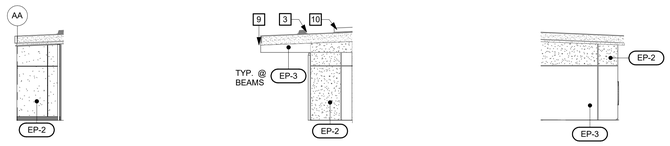
DATE 02/15/2022
JOB # 2020029.02
SHEET # A5.01



1 BLDG. C - EXT. ELEVATION UNWRAPPED
SCALE: 1/8" = 1'-0"



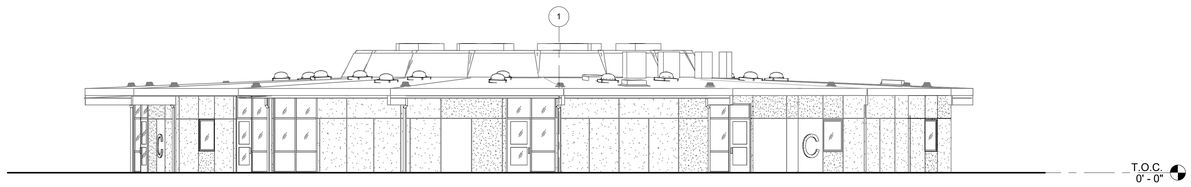
2 BLDG. C - EXT. ELEVATION UNWRAPPED
SCALE: 1/8" = 1'-0"



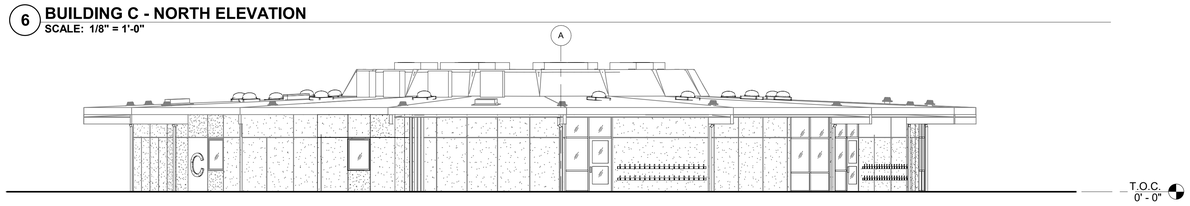
3 BLDG. C - EXT. ELEVATION
SCALE: 1/8" = 1'-0"

4 BLDG. C - EXT. ELEVATION
SCALE: 1/8" = 1'-0"

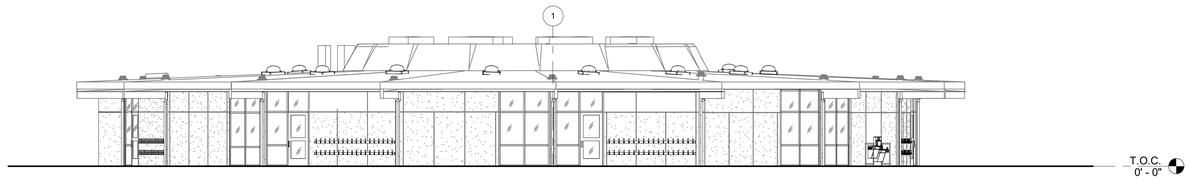
5 BLDG. C - EXT. ELEVATION
SCALE: 1/8" = 1'-0"



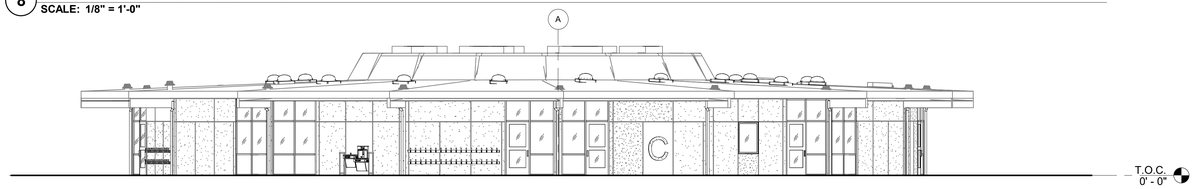
6 BUILDING C - NORTH ELEVATION
SCALE: 1/8" = 1'-0"



7 BUILDING C - WEST ELEVATION
SCALE: 1/8" = 1'-0"



8 BUILDING C - SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



9 BUILDING C - EAST ELEVATION
SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

A REFER TO A11.01 FINISH SCHEDULE FOR EXTERIOR FINISHES, MATERIALS AND COLORS.

B CONTRACTOR SHALL PAINT ALL VISIBLE, EXPOSED COMPONENTS INCLUDING BUT NOT LIMITED TO BEAMS, FASCIAS, SOFFITS, PIPES, CONDUITS, RAIN WATER LEADERS, GUTTERS, FLASHING, EQUIPMENT, VENTS, ETC. U.O.N

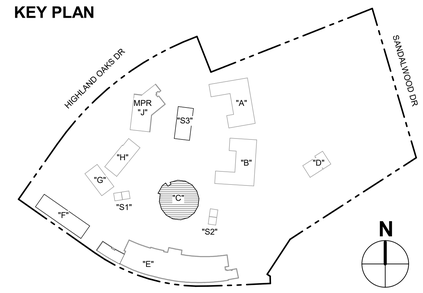
C SEE SIGNAGE PLANS AND DOOR SCHEDULE FOR SIGNAGE, TYP.

D EXTERIOR WALL MOUNTED LIGHT FIXTURES TO BE 9'-0" ABOVE FINISH GRADE, U.O.N.

EXTERIOR ELEVATION KEYNOTES

1	MECHANICAL EQUIPMENT, S.M.D.
2	21" DIA. TUBULAR SKYLIGHT, SEE DETAIL 7/A8.11.
3	(E) ROOF DRAIN TO REMAIN, TYP. CLEAN AND PROTECT DURING CONSTRUCTION
4	3" DIA. RWL, SEE FLOOR PLAN AND DETAILS 7/A8.10 & 9/A8.10.
5	BUILDING NAME SIGNAGE, 36" HIGH ARIAL FONT, PAINT TYP.
6	BACKPACK HOOK RACK, SEE DETAIL 5/A8.10.
7	HI-LOW DRINKING FOUNTAIN WITH BOTTLE FILLING STATION, SEE DETAIL 6/A8.10
8	(E) MECHANICAL EQUIPMENT SCREEN TO REMAIN, PAINTED, TYP.
9	PROVIDE FLASHING OVER EXISTING MODIFIED GLULAM EDGE, SEE DETAIL 8/A8.11.
10	(E) SKYLIGHT TO REMAIN AND PROTECTED DURING CONSTRUCTION.

KEY PLAN



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PROJECT
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LICENSED ARCHITECT RICHARD A. ZIMMERMAN 20818 STATE OF CALIFORNIA

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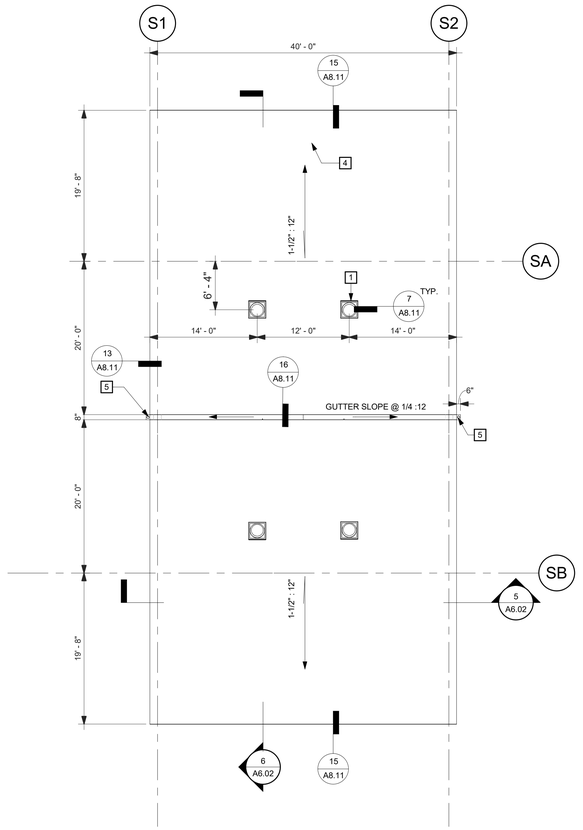
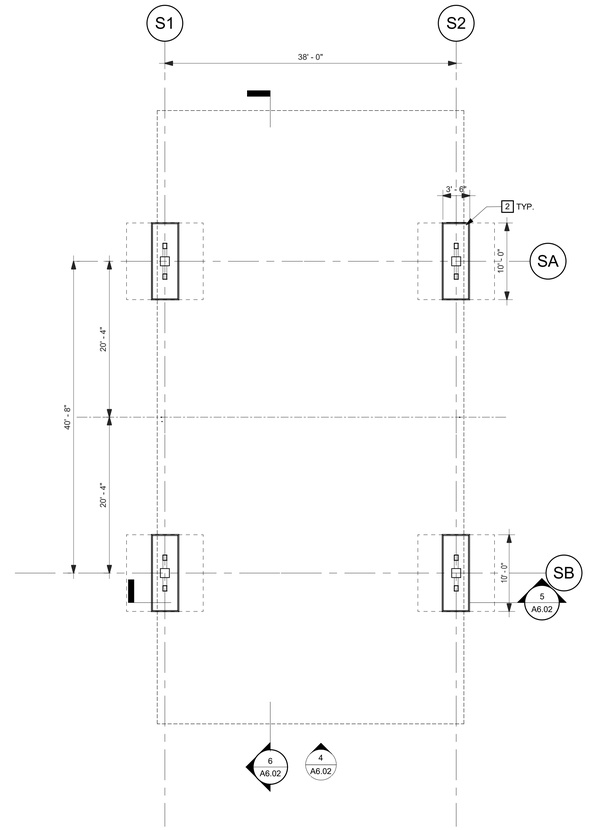
SHEET
EXTERIOR ELEVATIONS - BLDG C

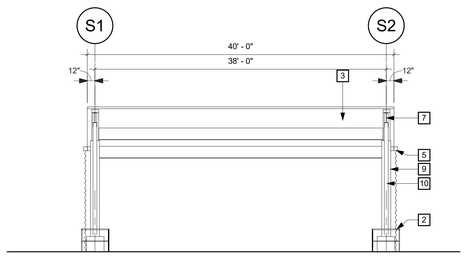
DATE 02/15/2022
JOB # 2020029.02
SHEET # A6.01



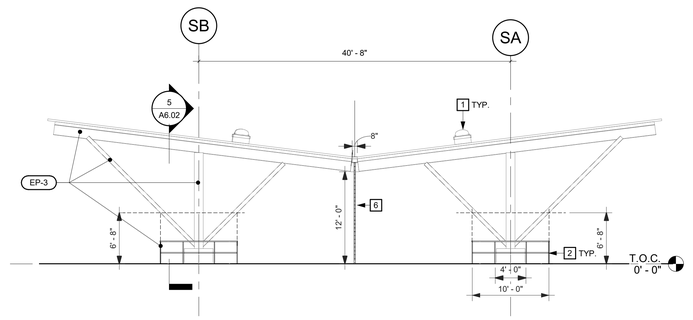
2 SHADE STRUCTURE- ROOF PLAN
SCALE: 1/8" = 1'-0"



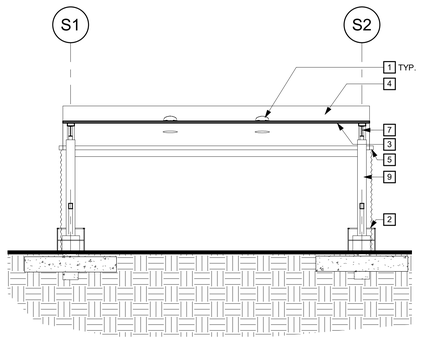
1 SHADE STRUCTURE- FLOOR PLAN
SCALE: 1/8" = 1'-0"



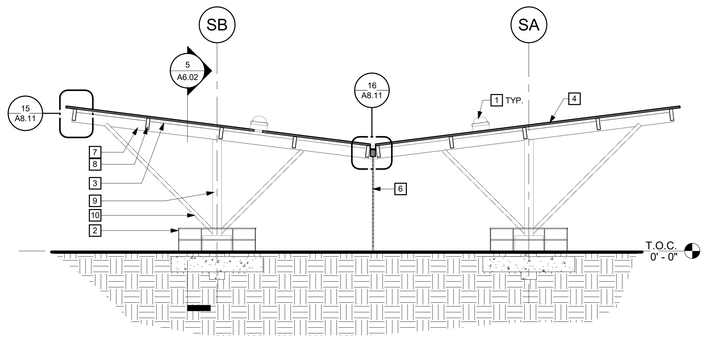
4 SHADE STRUCTURE - ELEVATION
SCALE: 1/8" = 1'-0"



3 SHADE STRUCTURE - ELEVATION
SCALE: 1/8" = 1'-0"



5 SHADE STRUCTURE- SECTION
SCALE: 1/8" = 1'-0"



6 SHADE STRUCTURE- SECTION
SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

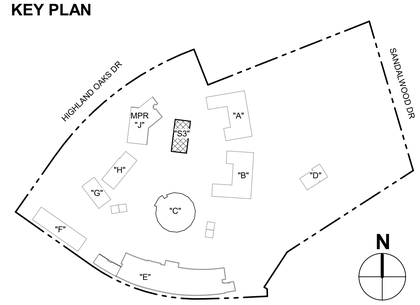
A. REFER & COORDINATE WITH STRUCTURAL DRAWINGS FOR EXTENT OF STRUCTURAL WORK.

B. ALL EXPOSED SHEET METAL SHALL BE KYNAR COATED ALUMINUM OR STAINLESS STEEL.

SHADE STRUCTURE KEYNOTES

1 21" DIA. TUBULAR SKYLIGHT, SEE DETAIL 7/A8.11.
2 METAL HANDRAIL, PAINTED, SEE DETAIL 8/A8.10.
3 3 PLY CROSS LAMINATED TIMBER PANEL TO BE EXPOSED AND STAINED FROM BOTTOM, S.S.D
4 SINGLE PLY THERMOPLASTIC CLASS A PVC ROOFING SEE DETAIL 18/A8.11
5 3" DIA. DRAIN HOLE CONNECTED TO POWDER COATED ALUMINUM 2.25" DIA RAIN CHAIN, 2.25" DIA (BOD- MONARCH).
6 POWDER COATED ALUMINUM 2.25" DIA. RAIN CHAIN(BOD-MONARCH) FROM THE BOTTOM OF G.S GUTTER CONNECTION TO STORM DRAIN AT FIN. GRADE
7 PAINTED WIDE FLANGE, TYP., S.S.D.
8 STAINED GLB, TYP., S.S.D.
9 PAINTED HSS COL., TYP., S.S.D.
10 PAINTED HSS BRACE, TYP., S.S.D.

KEY PLAN



IDENTIFICATION STAMP
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PROJECT

LYDIKSEN ELEMENTARY SCHOOL MODERNIZATION

PLEASANTON UNIFIED SCHOOL DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT
JOSEPH A. DAVIS
C-30818
EXP. 08-31-2022
STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 1-32

APPL # 01-119816

REVISIONS

No.	Description	Date

MILESTONES

SD	06/28/2021
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50% CD	09/20/2021
90% CD	10/14/2021
DSA SUB	10/19/2021

SHEET

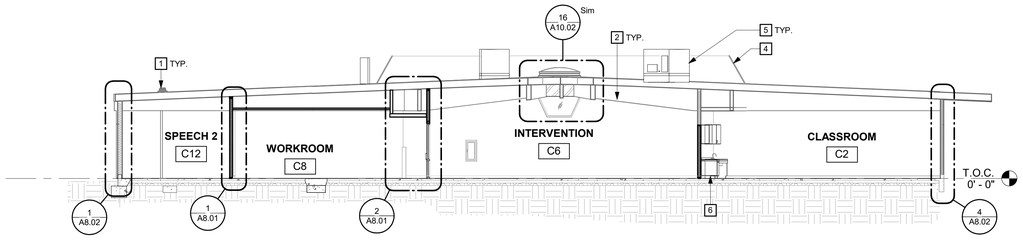
SHADE STRUCTURE PLANS & ELEVATIONS

DATE 02/15/2022

JOB # 2020029.02

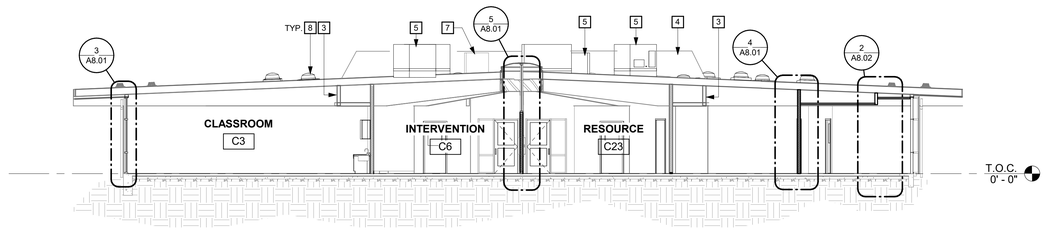
SHEET #

A6.02



1 BUILDING C- SECTION 1

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



2 BUILDING C - SECTION 2

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

GENERAL SHEET NOTES

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

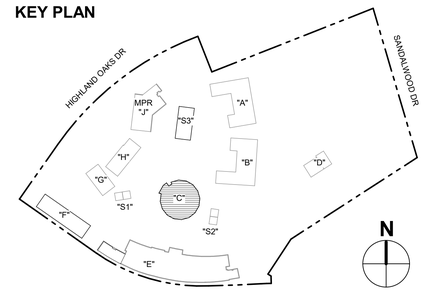
A REFER TO STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR THE EXTENT OF STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL WORK.

B REFER TO WALL TYPES PLANS AND WALL TYPE DETAILS FOR IDENTIFICATION OF ALL WALL TYPES.

BUILDING SECTION KEYNOTES

1	(E) ROOF DRAIN TO REMAIN, TYP. CLEAN AND PROTECT DURING CONSTRUCTION
2	(E) EXPOSED STRUCTURAL BEAM
3	(E) SOFFIT, PAINTED TYP.
4	(E) MECHANICAL EQUIPMENT SCREEN TO REMAIN, PAINTED, TYP.
5	MECHANICAL EQUIPMENT, S.M.D.
6	COUNTERTOP AND BASE CABINETS, REFER TO ATTACHMENT DETAILS, 12/A11.02
7	(E) MECHANICAL UNIT TO REMAIN AND PROTECTED DURING CONSTRUCTION.
8	21" DIA. TUBULAR SKYLIGHT, SEE DETAIL 7/A8.11.

KEY PLAN



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PROJECT

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PLEASANTON UNIFIED SCHOOL DISTRICT

CONSULTANT

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DSA SUB	10/19/2021

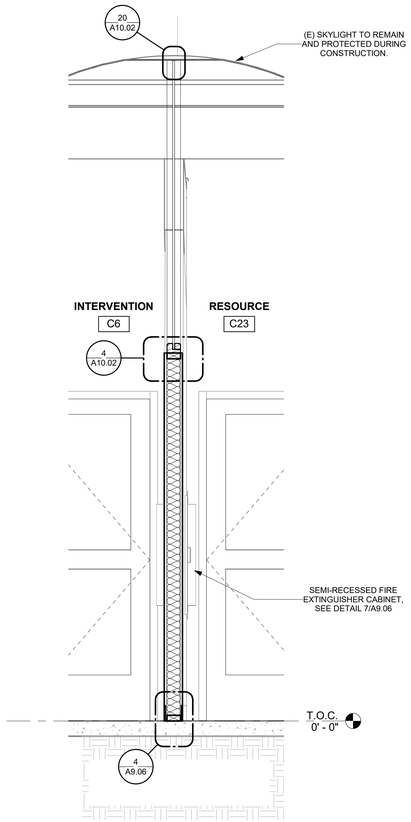
SHEET

BUILDING SECTIONS

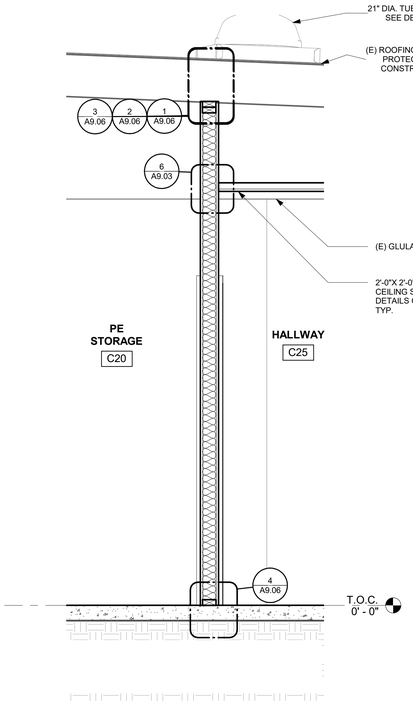
DATE 02/15/2022

JOB # 2020029.02

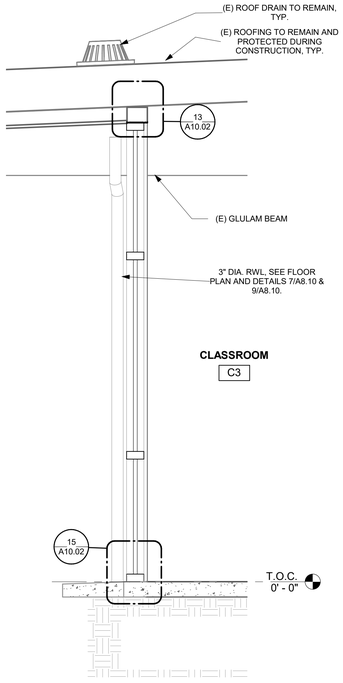
SHEET # A7.01



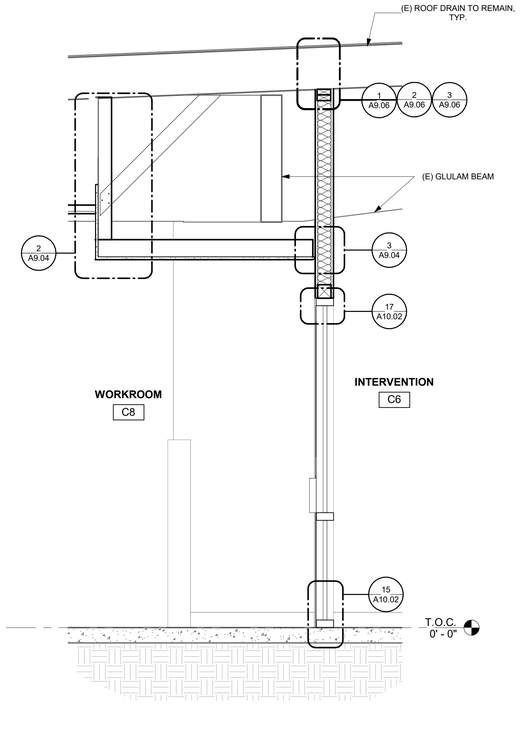
5 **WALL SECTION**
SCALE: 3/4" = 1'-0"



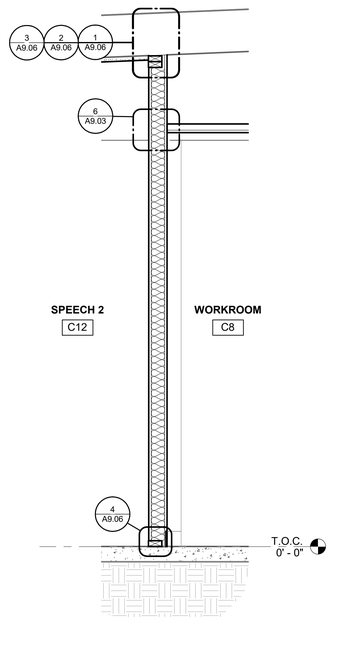
4 **WALL SECTION**
SCALE: 3/4" = 1'-0"



3 **wall section**
SCALE: 3/4" = 1'-0"



2 **WALL SECTION**
SCALE: 3/4" = 1'-0"



1 **WALL SECTION**
SCALE: 3/4" = 1'-0"

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PROJECT

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PLEASANTON UNIFIED SCHOOL DISTRICT

CONSULTANT

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LICENSED ARCHITECT
JOSEPH A. SCHAUER
C-31812
EXP. 08-31-2023
STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 1-32

APPL # 01-119816

REVISIONS

No.	Description	Date
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MILESTONES

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50% CD	09/20/2021
90% CD	10/14/2021
DSA SUB	10/19/2021

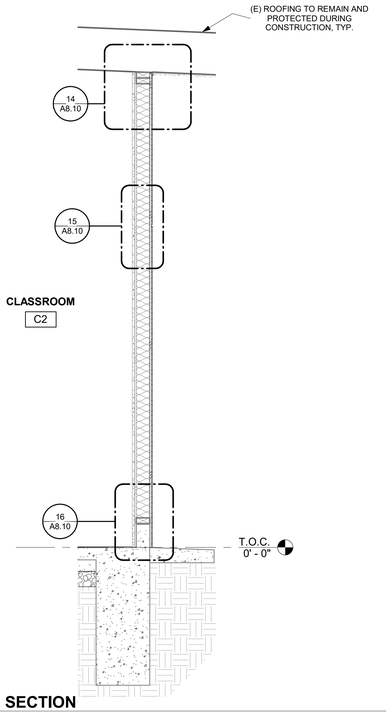
SHEET

WALL SECTIONS

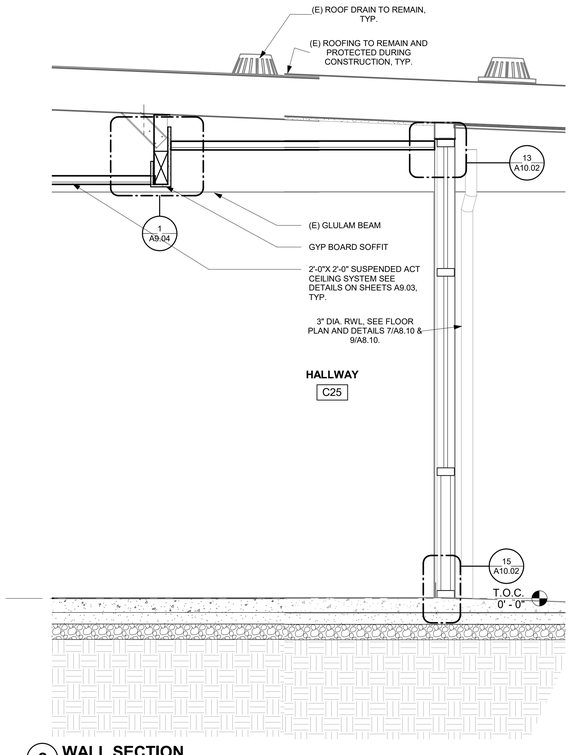
DATE 02/15/2022

JOB # 2020029.02

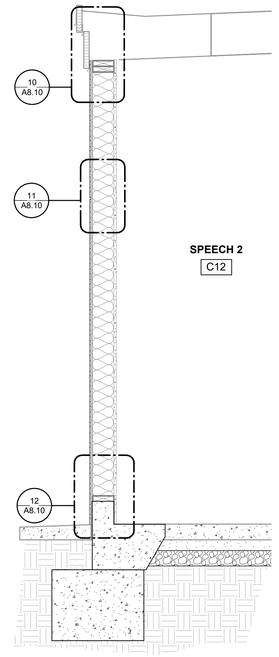
SHEET # A8.01



4 **WALL SECTION**
SCALE: 3/4" = 1'-0"



2 **WALL SECTION**
SCALE: 3/4" = 1'-0"



1 **WALL SECTION**
SCALE: 3/4" = 1'-0"

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PROJECT

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STATE OF CALIFORNIA
REGISTERED PROFESSIONAL ENGINEER
20718127

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DSA FILE NUMBER 1-32
APPL # 01-119816

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SHEET

WALL SECTIONS

DATE 02/15/2022
JOB # 2020029.02
SHEET # A8.02

2/16/2022 5:06:12 PM
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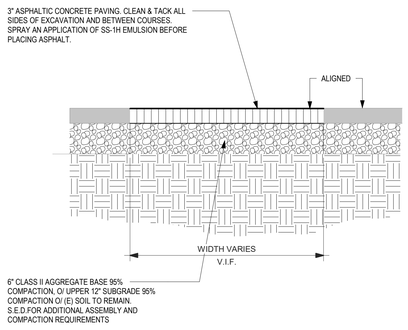
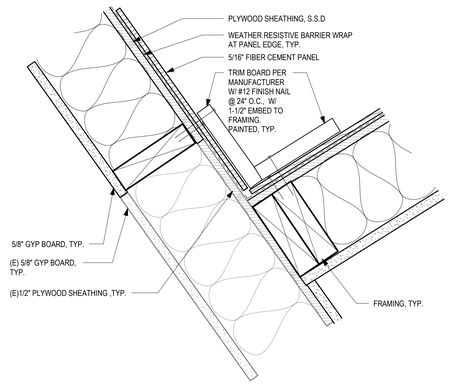
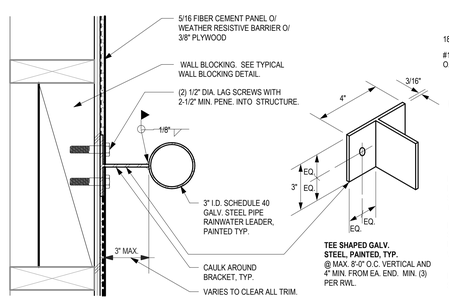


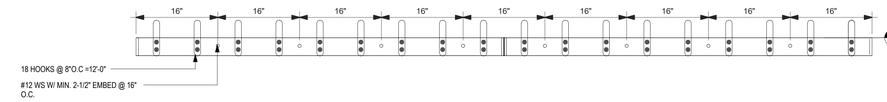
17 TRENCH PATCH AT ASPHALT PAVING
SCALE: 1 1/2" = 1'-0"



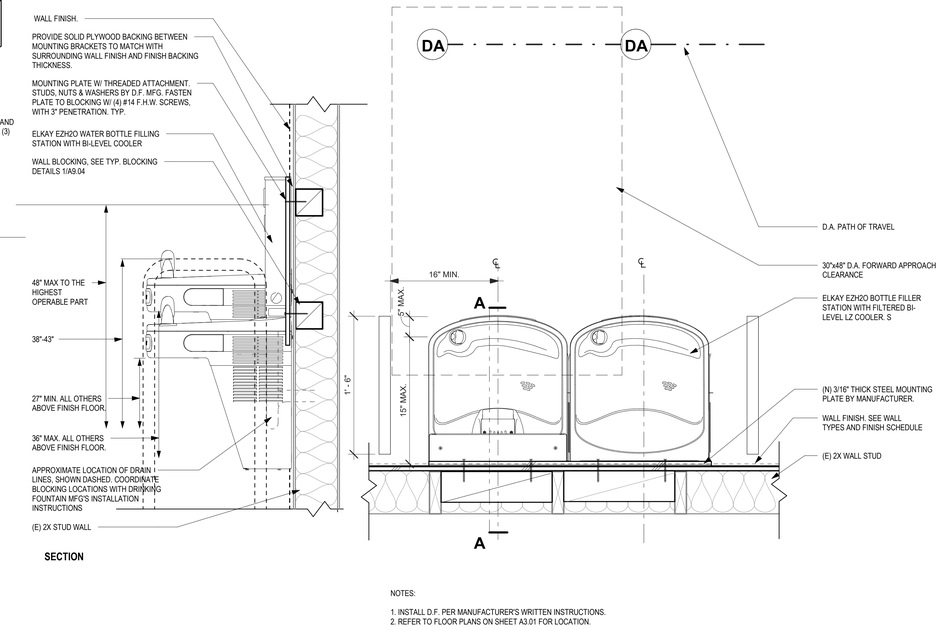
13 EXTERIOR WALL AT INTERSECTION DETAIL
SCALE: 3" = 1'-0"



9 RAIN WATER LEADER ANCHORAGE (2X STUDS)
SCALE: 3" = 1'-0"

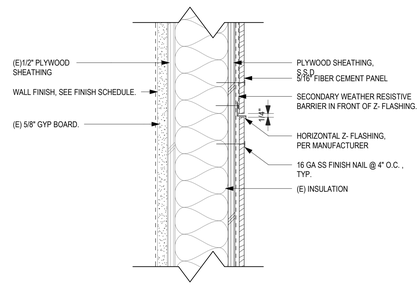


5 BACKPACK HOOK ATTACHMENT DETAIL
SCALE: 1" = 1'-0"

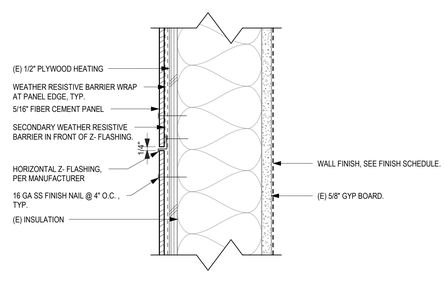


NOTES:
1. INSTALL D.F. PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
2. REFER TO FLOOR PLANS ON SHEET A3.01 FOR LOCATION.

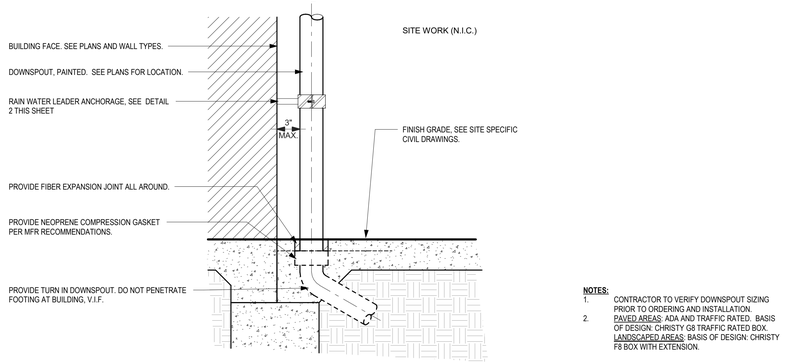
6 HI-LO DRINKING FOUNTAIN W/ BOTTLE FILLING STATION
SCALE: 1 1/2" = 1'-0"



15 HORIZONTAL Z- FLASHING @ (E) 2X4 WALL
SCALE: 3" = 1'-0"

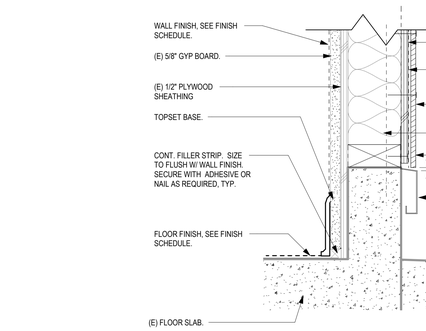


11 HORIZONTAL Z- FLASHING @ (E) 2X6 WALL
SCALE: 3" = 1'-0"

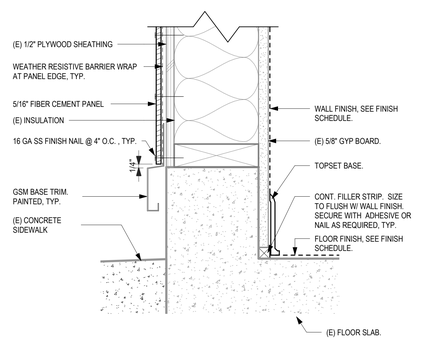


NOTES:
1. CONTRACTOR TO VERIFY DOWNSPOUT SIZING PRIOR TO ORDERING AND INSTALLATION.
2. PAVED AREAS: ADA AND TRAFFIC RATED. BASIS OF DESIGN: CHRISTY G8 TRAFFIC RATED BOX.
   LANDSCAPED AREAS: BASIS OF DESIGN: CHRISTY F8 BOX WITH EXTENSION.

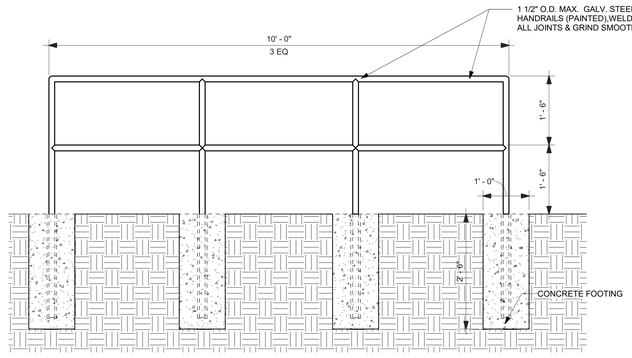
7 TYPICAL BELOW GROUND CLEANOUT AT DOWNSPOUT
SCALE: 1 1/2" = 1'-0"



16 EXTERIOR BASE DETAIL@ (E) 2x4 WALL
SCALE: 3" = 1'-0"



12 EXTERIOR BASE DETAIL@ (E) 2x6 WALL
SCALE: 3" = 1'-0"



8 HANDRAIL @ SHADE STRUCTURE
SCALE: 3/4" = 1'-0"

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PROJECT

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DSA SUB	10/19/2021

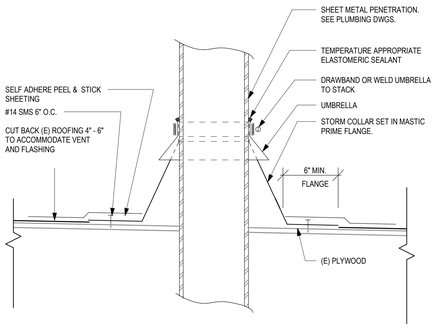
SHEET

EXTERIOR DETAILS

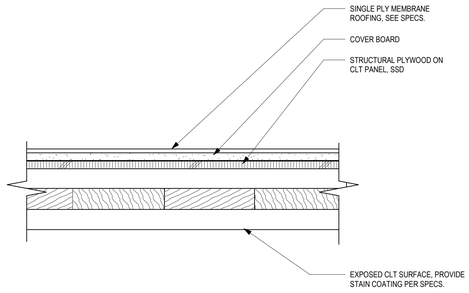
DATE 02/15/2022

JOB # 2020029.02

SHEET # A8.10

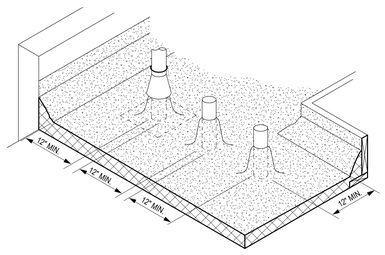


17 VENT THROUGH ROOF
SCALE: 12" = 1'-0"

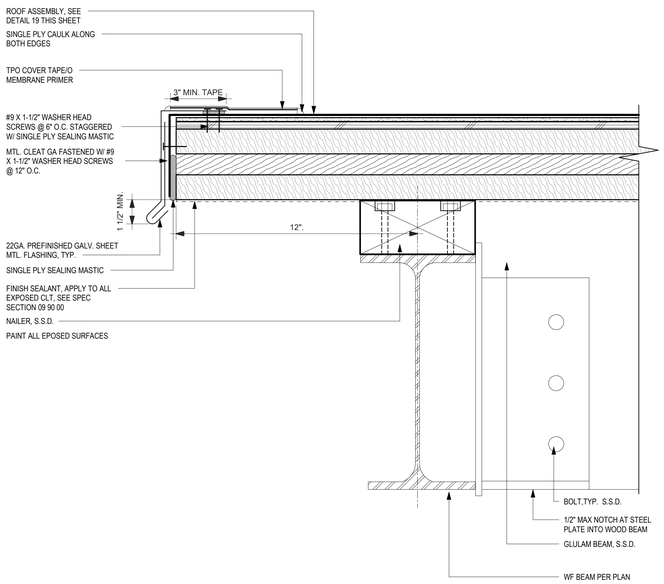


18 SINGLE PLY ROOF @ SHADE STRUCTURE
SCALE: 3" = 1'-0"

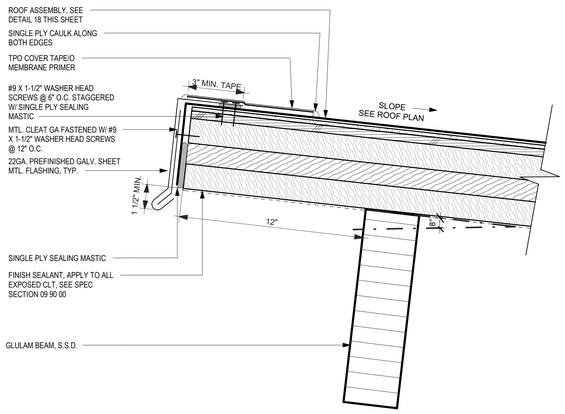
19 PLYWOOD JOINT SPLICE
SCALE: 1 1/2" = 1'-0"



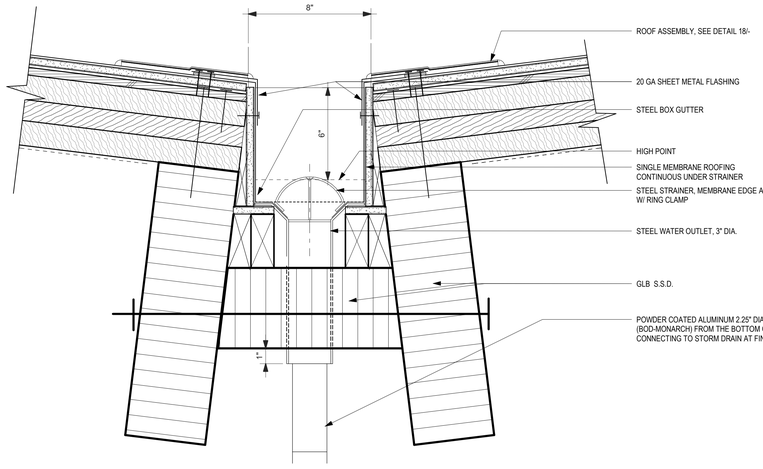
20 CLEARANCES BETWEEN PIPES, WALLS & CURBS
SCALE: 1" = 1'-0"



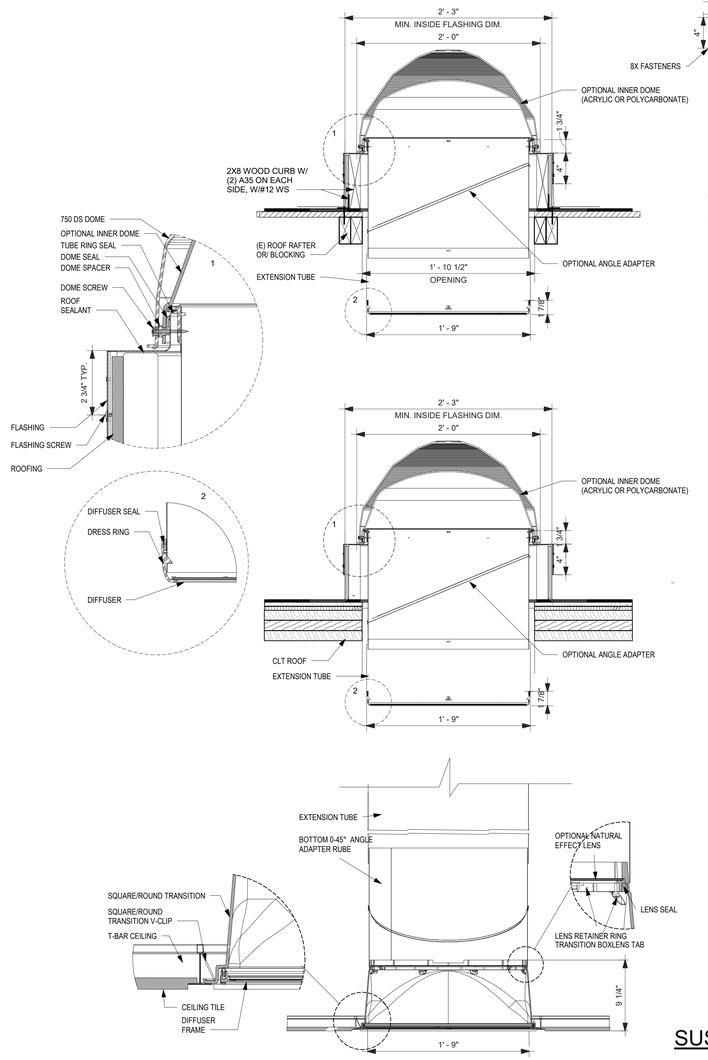
13 ROOF EDGE AT WIDE FLANGE BEAM DETAIL @ SHADE STRUCTURE
SCALE: 3" = 1'-0"

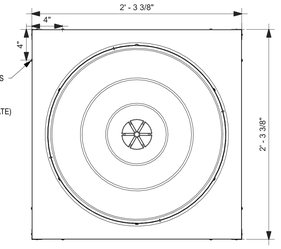


15 FASCIA DETAIL @ OVERHANG (END CONDITION)
SCALE: 3" = 1'-0"

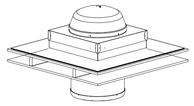


16 GUTTER DETAIL
SCALE: 3" = 1'-0"

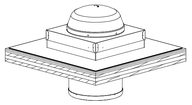


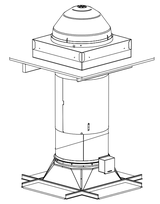


TOP VIEW



OPEN CEILING

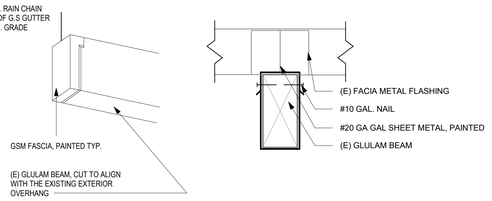




SUSPENDED CEILING

NOTES:
1. ALL TUBE JOINTS & SEAMS TAPED WITH 2" FOIL TAPE (NOT SHOWN).
2. DIMENSIONS IN BRACKETS ARE METRIC UNLESS OTHERWISE SPECIFIED.
3. 30" MIN. HEIGHT NEEDED FOR TRANSITION BOX.
4. 6" MIN CLEARANCE SHOULD BE MAINTAINED FROM ALL SOLATUBE

7 TUBULAR SKYLIGHT
SCALE: 1 1/2" = 1'-0"



8 BEAM CAP DETAIL
SCALE: 1 1/2" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119816 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 02/25/2022

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www.aedisarchitects.com
387 S. 1st Street, Suite 300
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tel: (408)-300-5160
fax: (408)-300-5121

PROJECT

LYDIKSEN ELEMENTARY SCHOOL MODERNIZATION

PLEASANTON UNIFIED SCHOOL DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT — RENEWAL 08/31/2023 — C-29187 — STATE OF CALIFORNIA

STATE
DSA FILE NUMBER 1-32
APPL # 01-119816

REVISIONS

No.	Description	Date
△		
△		

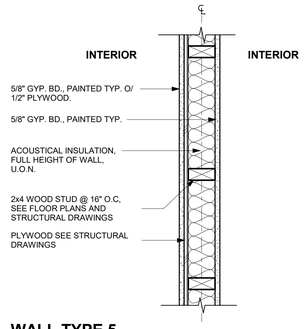
MILESTONES

SD	06/28/2021
DD	08/23/2021
50% CD	09/20/2021
90% CD	10/14/2021
DSA SUB	10/19/2021

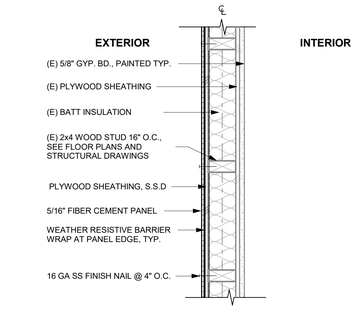
SHEET

EXTERIOR DETAILS

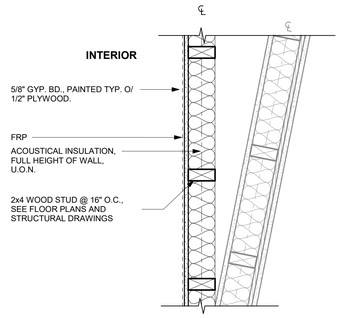
DATE 02/15/2022
JOB # 2020029.02
SHEET # A8.11



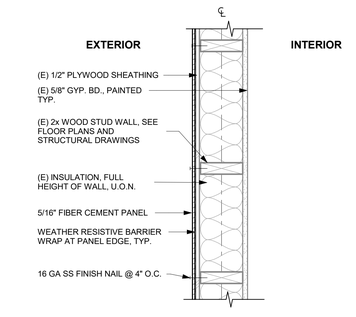
5 WALL TYPE 5
SCALE: 1 1/2" = 1'-0"



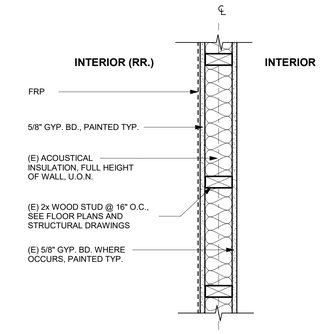
1 WALL TYPE 1
SCALE: 1 1/2" = 1'-0"



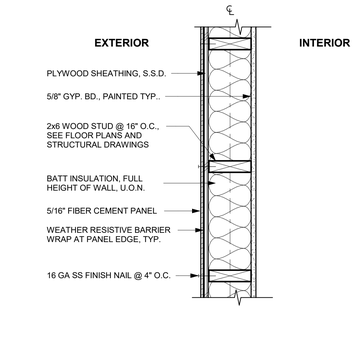
6 WALL TYPE 6
SCALE: 1 1/2" = 1'-0"



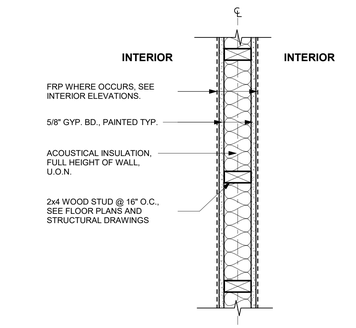
2 WALL TYPE 2
SCALE: 1 1/2" = 1'-0"



7 WALL TYPE 7
SCALE: 1 1/2" = 1'-0"



3 WALL TYPE 3
SCALE: 1 1/2" = 1'-0"



4 WALL TYPE 4
SCALE: 1 1/2" = 1'-0"

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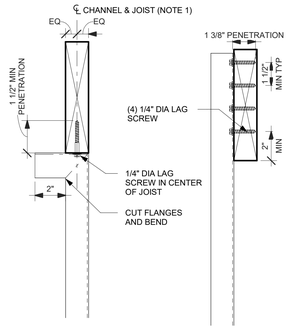
SHEET

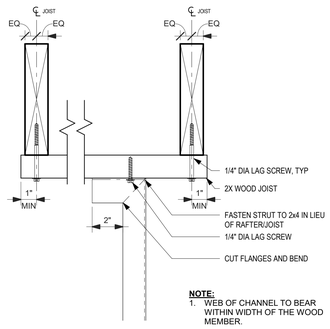
WALL TYPES

DATE 02/15/2022

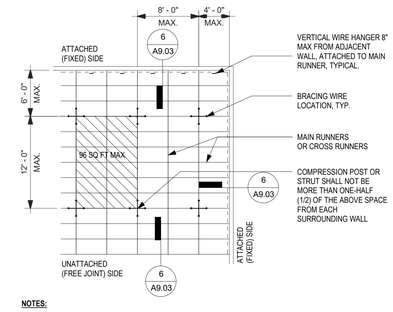
JOB # 2020029.02

SHEET # A9.01





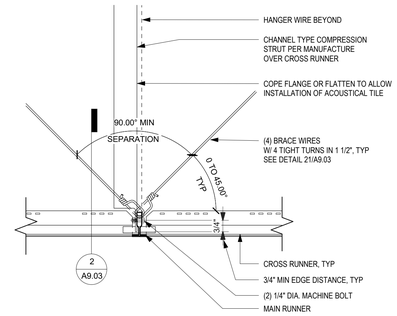
9 CHANNEL STRUT @ SAWN TIMBER
SCALE: 3" = 1'-0"



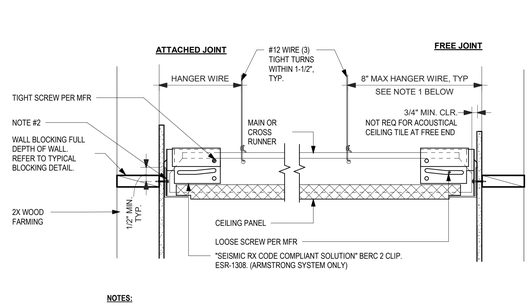
NOTES:

1. BRACING WIRES AND COMP. STRUT SHALL OCCUR AT EVERY 96 SQ FT MAX IN ROOMS OVER 144 SQ FT
2. MAIN RUNNER SPACING NO MORE THAN 4'-0" O.C. with A HANGER WIRE SPACING NOT TO EXCEED 4'-0" O.C. AND NO MORE THAN 6' FROM EACH END OF THE MAIN RUNNER.

1 TYPICAL CHANNEL STRUT SECTION
SCALE: 3" = 1'-0"



10 TYP. 8'-0" X 12'-0" CLG. PLN. BRACE
SCALE: 1/8" = 1'-0"

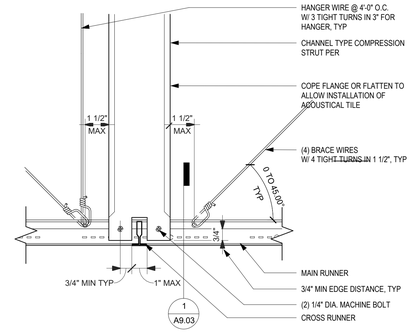


NOTES:

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-FOURTH (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. (1) #10 SMS TO 20 GA. MIN. WALL STUD @ 24" O.C.

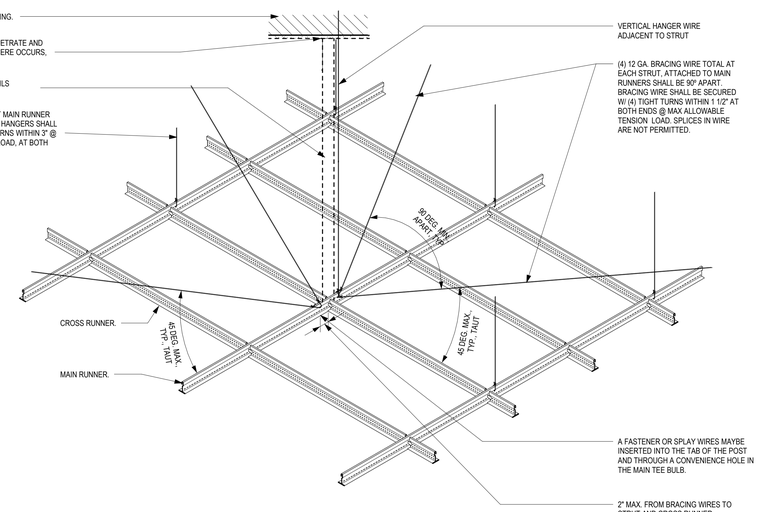
6 CEILING BEAM END RETAINING CLIP/SEISMIC CLIP
SCALE: 1 1/2" = 1'-0"

2 TYPICAL CHANNEL STRUT@ SUSPENDED CEILING
SCALE: 3" = 1'-0"



CHANNEL COMPRESSION STRUT	MAXIMUM LENGTH
250S125-33	5' - 0"
250S137-33	6' - 10"
362S137-33	8' - 0"
250137-43	8' - 10"
400S137-43	10' - 10"

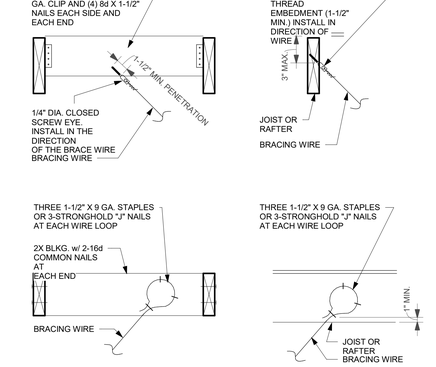
7 COMPRESSION STRUT TABLE
SCALE: 1 1/2" = 1'-0"



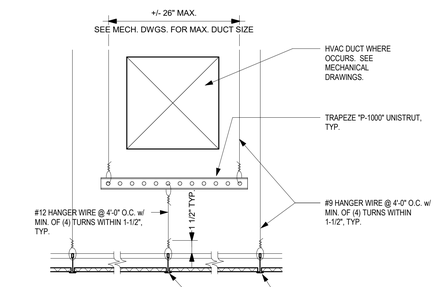
NOTES:

1. STRUTS SHALL NOT REPLACE HANGER WIRES.
2. THE MINIMUM ACCEPTABLE ANGELS IS DETERMINED SUCH THAT THE WIRES DO NOT INTERFERE WITH THE RUNNERS, LIGHT FIXTURES, ETC. AND REMAIN STRAIGHT AND UNOBSTRUCTED
3. HANGER/ BRACING WIRE ANCHORAGE AT STRUCTURE SHALL BE INSTALLED IN THE DIRECTIONS/ALIGNED OF THE WIRE

TYPICAL SUSPENDED CEILING BRACING ASSEMBLY



3 BRACING WIRE CONNECTION TO SAWN TIMBER
SCALE: 1 1/2" = 1'-0"



TYPICAL SUSPENDED CEILING TRAPEZE

TABLE 1

LATERAL FORCE BRACE ASSEMBLY SPACING

Design Spectral Acceleration Parameter, S_{DS}	Brace Assembly Spacing (ft.)	
	z/h ≤ 0.5[a]	z/h > 0.5[a, b]
$S_{DS} \leq 1.15$	12 x 12	12 x 12
• 1.15 < $S_{DS} \leq 1.73$	12 x 12	8 x 12
$S_{DS} > 1.73$	8 x 12	8 x 8

* APPLICAPLE TO CURRENT CONDITION DESIGN

1.03 CEILING SYSTEMS. THE FOLLOWING CEILING SYSTEM(S) IS/ARE PART OF THE SCOPE OF THE PROJECT:

MANUFACTURER'S NAME: ARMSTRONG
PRODUCT EVALUATION REPORT TYPE AND NUMBER: ICC-ES ESR-1308
MANUFACTURER'S MODEL NUMBER-MAIN RUNNER: PRELUDE HEAVY DUTY XL 15/16"
MANUFACTURER'S CATALOG NUMBER- CROSS RUNNER: XL7328(24" GRID), XL7341(48" GRID)

1.04 SEISMIC WALL CLIP:

MANUFACTURER'S MODEL: BERC 2

2 CEILING DESIGN & INSTALLATION REQUIREMENTS.

2.1 CEILING SYSTEM COMPONENTS:
a) SHALL COMPLY WITH ASTM C635 AND SECTION 5.1 OF ASTM E580.
b) THE CEILING GRID SYSTEM MUST BE RATED HEAVY DUTY AS DEFINED BY ASTM C635.
c) MAIN RUNNERS, CROSS RUNNERS, SPLICES, EXPANSION DEVICES, AND INTERSECTION CONNECTORS SHALL BE DESIGNED TO CARRY A MEAN ULTIMATE TEST LOAD OF NOT LESS THAN 180 LBS. IN COMPRESSION AND TENSION PER ASTM E580 SECTION 5.1.2.
d) CEILING WIRE SHALL BE CLASS 1 ZINC COATED (GALVANIZED) CARBON STEEL CONFORMING TO ASTM A641. WIRE SHALL BE #12 GAGE (0.106" DIAMETER) WITH SOFT TEMPER AND MINIMUM TENSILE STRENGTH = 70 KSI. THE MAXIMUM ALLOWABLE (ASD) TENSION LOAD FOR WIRE MEETING THIS SPECIFICATION IS 350 POUNDS.
- FOUR (4) TURNS OF THE WIRE WITHIN 1.5" WILL DEVELOP THE WIRE ALLOWABLE LOAD.
- THREE (3) TURNS OF THE WIRE WITHIN 3" IS ASSUMED TO DEVELOP NO MORE THAN 50 PERCENT OF WIRE ALLOWABLE LOAD.

SUSPENSION SYSTEM INSTALLATION:

2.2 a) SHALL COMPLY WITH ASTM C636 AND SECTION 5.2 OF ASTM E580.
b) #12 GAGE HANGER WIRES MAY BE USED FOR UP TO AND INCLUDING A 4 FOOT BY 4 FOOT GRID SPACING AND SHALL BE ATTACHED TO MAIN RUNNERS. SPLICES IN HANGER WIRES SHALL DEVELOP 50 PERCENT OF THE WIRE ALLOWABLE LOAD.
c) PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LEAST, 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.
d) CEILING GRID MEMBERS SHALL BE ATTACHED TO TWO (2) ADJACENT WALLS PER ASTM E580, SECTION 5.2.3. CEILING GRID MEMBERS SHALL BE AT LEAST 3/4 INCH CLEAR OF OTHER WALLS. IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD BE FREE, AND A MINIMUM OF 3/4 INCH CLEAR OF WALL.

LATERAL FORCE BRACING ASSEMBLY INSTALLATION:

a) LATERAL FORCE BRACING ASSEMBLIES CONSISTING OF A COMPRESSION STRUT AND FOUR (4) #12 GAGE SPLAYED BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER ARE REQUIRED FOR ALL CEILING AREAS.
EXCEPTION: LATERAL FORCE BRACING MAY BE OMITTED FOR SUSPENDED ACOUSTICAL CEILING SYSTEMS WITH A CEILING AREA NOT TO EXCEED 144 SQUARE FEET, FOR ALL VALUES OF SDS, WHEN PERIMETER SUPPORT IS PROVIDED IN ACCORDANCE WITH SECTION 2.2 OF THIS IR AND PERIMETER WALLS ARE DESIGNED TO CARRY THE CEILING LATERAL FORCES.
b) LATERAL FORCE BRACING ASSEMBLIES SHALL BE SPACED PER TABLE 1 FOR ALL VALUES OF THE COMPONENT IMPORTANCE FACTOR (IP) OF THE CEILING.
2.3 c) THERE SHALL BE A BRACE ASSEMBLY A DISTANCE OF NOT MORE THAN ONE HALF OF THE ABOVE SPACING FROM EACH SURROUNDING WALL, EXPANSION JOINT AND AT THE EDGES OF ANY CEILING VERTICAL OFFSET, FOR EXAMPLE, WHERE THE BRACE SPACING IS 8' X 12', THE EDGE DISTANCE SHALL BE 4 FEET IN THE DIRECTION OF THE 8 FOOT SPACING AND 6 FEET IN THE DIRECTION OF THE 12 FOOT SPACING.
d) THE SLOPE OF BRACING WIRES SHALL NOT EXCEED 45 DEGREES FROM THE HORIZONTAL PLANE AND WIRES SHALL BE TAUT. SPLICES IN BRACING WIRES SHALL DEVELOP THE WIRE ALLOWABLE LOAD.

2.4 ATTACHMENT OF HANGER AND BRACING WIRES:
a) FASTEN HANGER WIRES WITH NOT LESS THAN THREE (3) TIGHT TURNS IN THREE (3) INCHES. HANGER WIRE LOOPS SHALL BE TIGHTLY WRAPPED AND SHARPLY BENT TO PREVENT ANY VERTICAL MOVEMENT OR ROTATION OF THE MEMBER WITHIN THE LOOPS (SEE ASTM E580, SECTION 5.2.7.2).
b) FASTEN BRACING WIRES WITH NOT LESS THAN FOUR (4) TIGHT TURNS IN ONE AND ONE-HALF (1-1/2) INCHES.
c) 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, SCREW EYES IN WOOD MUST BE INSTALLED SO THEY ALIGN CLOSELY WITH THE DIRECTION OF THE WIRE, ETC.).
d) SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST SIX (6) INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT, ETC.
e) HANGER AND BRACING WIRES SHALL NOT ATTACH TO OR BEND AROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO: PIPING, DUCTWORK, CONDUIT AND EQUIPMENT. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO ALLOW TYPICAL HANGER SPACING. BRACE ASSEMBLIES MUST BE CONFIGURED AND/OR LOCATED IN ORDER TO AVOID OBSTRUCTIONS IN ADDITION TO MAINTAINING THE REQUIRED BRACE ASSEMBLY SPACING.
f) PROVIDE ADDITIONAL HANGERS, STRUTS AND BRACE ASSEMBLIES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS, OR DISCONTINUOUS AREAS.
g) HANGER WIRES THAT ARE MORE THAN ONE (HORIZONTAL) IN SIX (VERTICAL) OUT OF PLUMB SHALL HAVE COUNTER-SLOPING WIRES.
NOTE: SEE ASTM C636, FIGURE 1, FOR COUNTER-SLOPING METHODS.
h) ATTACHMENT OF THE BRACING WIRES TO THE STRUCTURE ABOVE AND TO THE MAIN RUNNERS SHALL BE ADEQUATE FOR THE LOAD IMPOSED. THE WEIGHT (WP) SHALL BE TAKEN AS NOT LESS THAN FOUR (4) PSF FOR CALCULATING SEISMIC FORCES (FP).

2.6 CEILING FIXTURES, TERMINALS, AND DEVICES:
a) ALL FIXTURES, TERMINALS, AND OTHER DEVICES SHALL BE MOUNTED IN A MANNER THAT WILL NOT COMPROMISE CEILING PERFORMANCE IN ACCORDANCE WITH SECTION 13.5.6.2.2 ITEM 5 OF ASCE 7 AS AMENDED BY CBC SECTION 1616A.1.20 (1616.10.1(5*) AND ASTM E580 SECTIONS 5.3 AND 5.4.
b) CEILING PANELS SHALL NOT SUPPORT ANY LIGHT FIXTURES, AIR TERMINALS OR DEVICES.
c) PENETRATIONS THROUGH THE CEILING FOR SPRINKLER HEADS AND OTHER SIMILAR DEVICES THAT ARE NOT INTEGRALLY TIED TO THE CEILING SYSTEM IN THE LATERAL DIRECTION SHALL HAVE A TWO (2) INCH OVERSIZED RING, SLEEVE OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FREE MOVEMENT OF ONE (1) INCH IN ALL HORIZONTAL DIRECTIONS. ALTERNATIVELY, PER ASTM E580, SECTION 5.2.8.5, A FLEXIBLE SPRINKLER HOSE FITTING THAT CAN ACCOMMODATE ONE (1) INCH OF CEILING MOVEMENT SHALL BE PERMITTED TO BE USED IN LIEU OF THE OVERSIZED RING, SLEEVE, OR ADAPTER.
d) SLACK SAFETY WIRES SHALL BE CONSIDERED HANGER WIRES FOR INSTALLATION AND TESTING REQUIREMENTS.

2.6.1 LIGHT FIXTURES:
a) ALL LIGHT FIXTURES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS PER CBC ARTICLE 410.36 TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURE A MINIMUM OF TWO SCREWS OR APPROVED FASTENERS ARE REQUIRED AT EACH LIGHT FIXTURE. PER ASTM E580, SECTION 5.3.1.
b) SURFACE-MOUNTED LIGHT FIXTURES SHALL BE ATTACHED TO THE MAIN RUNNER WITH AT LEAST TWO POSITIVE CLAMPING DEVICES ON EACH FIXTURE. 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.
c) LIGHT FIXTURES 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.
d) LIGHT FIXTURES 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 WIRES CONNECTED FROM THE FIXTURE HOUSING AT DIAGONAL CORNERS TO THE STRUCTURE ABOVE.
EXCEPTION: ALL LIGHT FIXTURES GREATER THAN TWO BY FOUR FEET WEIGHING LESS THAN 56 LBS. SHALL HAVE A #12 GAGE SLACK SAFETY WIRE AT EACH CORNER.
e) ALL LIGHT FIXTURES 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.

2.6.2 SERVICES WITHIN THE CEILING:
a) 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 TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE COMPONENT. SCREWS OR APPROVED FASTENERS ARE REQUIRED. A MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH COMPONENT.
b) 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.
c) 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.
d) 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. THE FOUR (4) TAUT #12 GAGE WIRES OR OTHER APPROVED HANGERS, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, MUST BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE UNIT.

2.6.3 OTHER DEVICES WITHIN THE CEILING:
ALL LIGHTWEIGHT MISCELLANEOUS DEVICES, SUCH AS STROBE LIGHTS, OCCUPANCY SENSORS, SPEAKERS, EXIT SIGNS, ETC., SHALL BE ATTACHED TO THE CEILING GRID PER SECTION 2.6.2 A) . IN ADDITION, DEVICES WEIGHING MORE THAN 10 LBS. SHALL HAVE A #12 GAGE SLACK SAFETY WIRE ANCHORED TO THE STRUCTURE ABOVE PER SECTION 2.6.1 B) . DEVICES WEIGHING MORE THAN 20 LBS. SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE.

ADDITIONAL REQUIREMENTS:

3 ACOUSTICAL CEILING TILE PANEL INSTALLATION
3.3 FOR CEILING INSTALLATIONS UTILIZING ACOUSTICAL TILE PANELS OF MINERAL OR GLASS FIBER, IT IS NOT MANDATORY TO PROVIDE ½" CLEARANCE BETWEEN THE ACOUSTICAL TILE PANELS AND THE WALL ON THE SIDES OF THE CEILING WHICH ARE FREE TO SLIP.

7 TESTING: ALL FIELD TESTING MUST BE PERFORMED IN THE PRESENCE OF THE PROJECT INSPECTOR OR A SPECIAL INSPECTOR.

REFERENCES:
California Code of Regulations (CCR) Title 24
CBC-2019 California Building Code:
Chapter 16A 2019 CBC,
Chapter 23 2019 CBC,
Chapter 25, 2019 CBC.
Part 3, 2019 California Electrical Code(CEC), Article 410.36
ASCE/SEI 7- American Society Of Civil Engineering/Structural Engineering Institute,Standard 7
ASTM C635,C636,E84,E580

TYPICAL SUSPENDED CEILING NOTES (Based upon DSA IR 25-2.13, REV 11/09/17)

20 TYP. METAL SUSPENSION CEILING SYSTEM FOR LAY-IN PANELS
SCALE: 1 1/2" = 1'-0"

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PROJECT

LYDIKSEN ELEMENTARY SCHOOL MODERNIZATION

PLEASANTON UNIFIED SCHOOL DISTRICT

CONSULTANT

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STATE
DSA FILE NUMBER 1-32
APPL # 01-119816

REVISIONS

No.	Description	Date
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△		

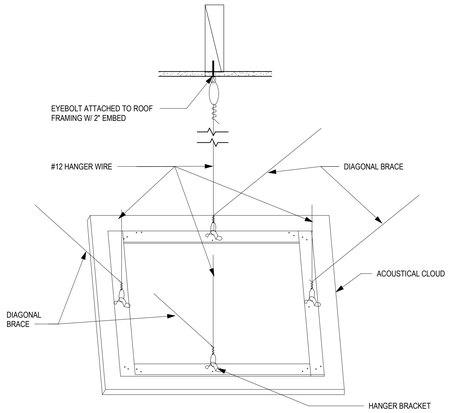
MILESTONES

SD	06/28/2021
DD	08/23/2021
50% CD	09/20/2021
90% CD	10/14/2021
DSA SUB	10/19/2021

SHEET

CEILING DETAILS

DATE 02/15/2022
JOB # 2020029.02
SHEET # A9.03



5 ACOUSTICAL CEILING PANEL ATTACHMENT
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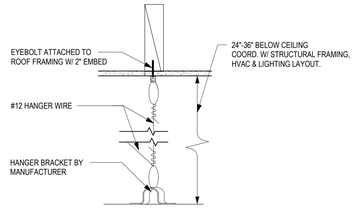
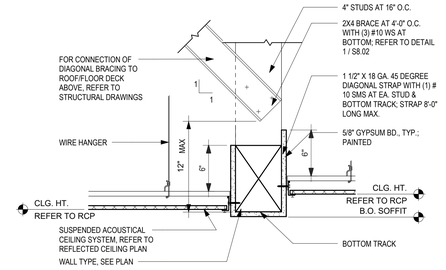
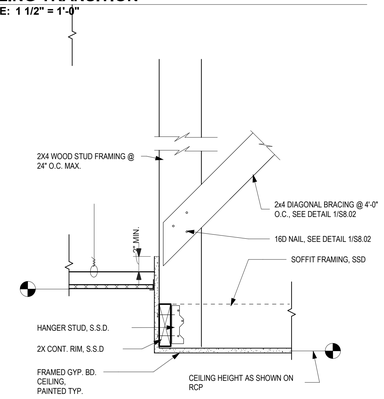
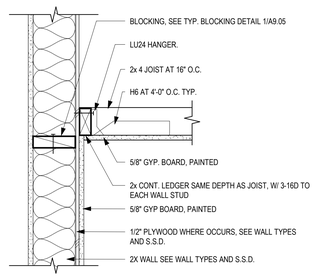




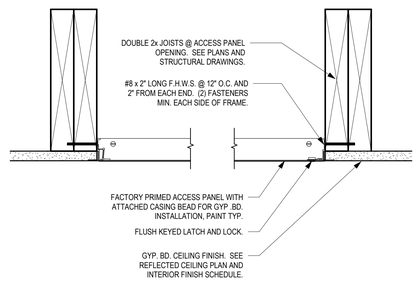
1 CEILING TRANSITION
SCALE: 1 1/2" = 1'-0"



2 GYP BOARD FRAMED SOFFIT
SCALE: 1 1/2" = 1'-0"



3 GYP BD. FRAMED CEILING AT WALL
SCALE: 1 1/2" = 1'-0"



4 CEILING ACCESS PANEL
SCALE: 3" = 1'-0"

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PROJECT

LYDIKSEN ELEMENTARY SCHOOL MODERNIZATION

PLEASANTON UNIFIED SCHOOL DISTRICT

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STATE

DSA FILE NUMBER 1-32

APPL # 01-119816

REVISIONS

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SHEET

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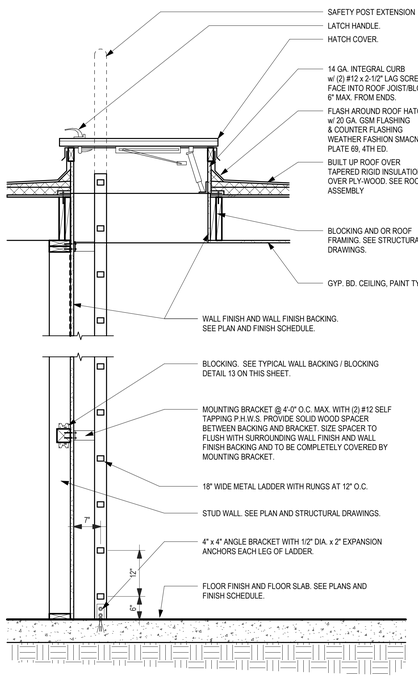
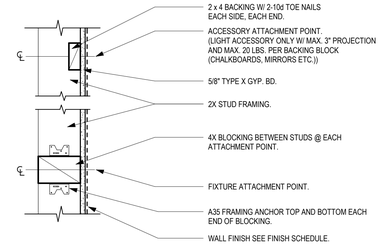
JOB # 2020029.02

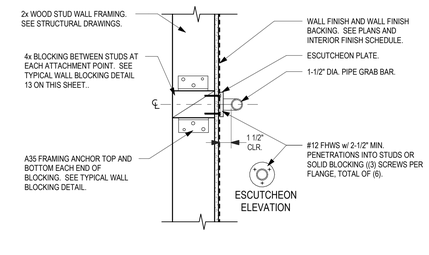
SHEET # A9.04



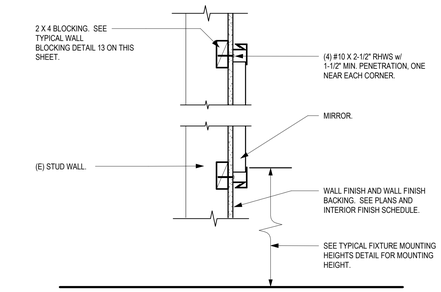
18 ROOF ACCESS LADDER AND HATCH (2x STUDS)
SCALE: 3/4" = 1'-0"



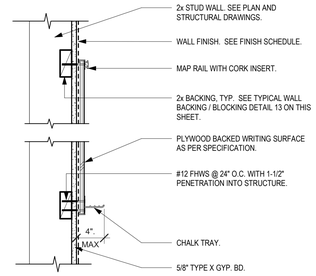
13 TYPICAL WALL BACKING / BLOCKING
SCALE: 1 1/2" = 1'-0"



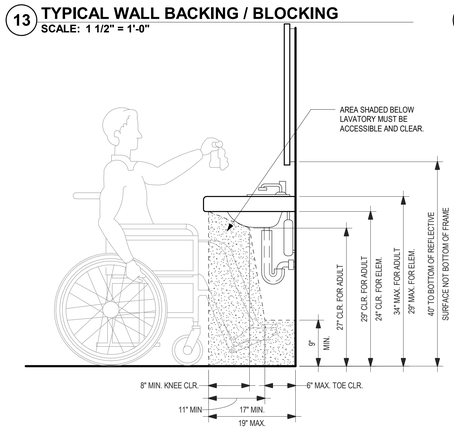
9 GRAB BAR ANCHORAGE (2X STUDS)
SCALE: 1 1/2" = 1'-0"



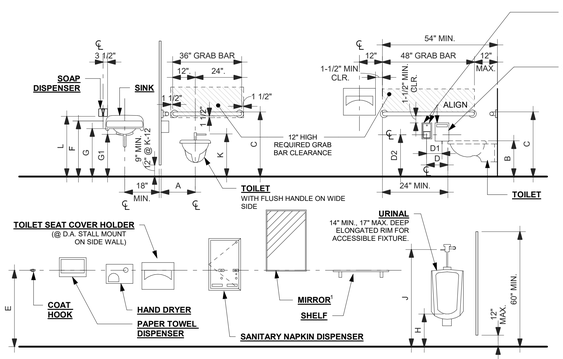
5 MIRROR MOUNTING
SCALE: 1 1/2" = 1'-0"



1 MARKER BD. ANCHORAGE
SCALE: 1 1/2" = 1'-0"



14 KNEE CLEARANCE AT LAVATORY
SCALE: 1" = 1'-0"

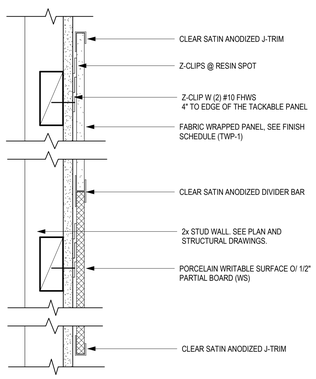


10 TYPICAL FIXTURE MOUNTING HEIGHTS
SCALE: 1/4" = 1'-0"

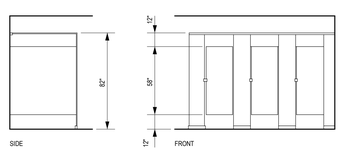
MOUNTING HEIGHTS

DIM.	DESCRIPTION	D.A. TK (INCHES)	D.A. KINDER (INCHES)	NON-DA ELEM. (INCHES)	D.A. ELEM. (INCHES)	D.A. ADULT[2] (INCHES)
A	TOILET CENTERING FROM WALL	12	15	15 - 18	15 - 18	17-18
B	TOILET SEAT HEIGHT	12	15	15 - 17	15 -17	17-19
C	T.O. GRAB BAR GRIPPING HEIGHT	18	25	25 - 27	25 - 27	33 - 36
D	TOILET PAPER IN FRONT OF TOILET	7-9	7-9	7-9	7-9	7-9
D1	NAPKIN DISPOSAL	-	-	12 MAX.	12 MAX.	12 MAX.
D2	NAPKIN DISPOSAL (OPENING HEIGHT)	-	-	14	14	19 MIN.
E	DISPENSER OR MIRROR HEIGHT	29 MAX.	31 MAX.	31 MAX.	31 MAX.	40 MAX.
F	LAVATORY/SINK TOP HEIGHT	29 MAX.	31 MAX.	31 MAX.	31 MAX.	34 MAX.
G	LAVATORY/SINK KNEE CLEARANCE	24 MIN.	24 MIN.	-	24 MIN.	27 MIN.
G1	LAVATORY/SINK (BOTTOM OF BOWL)	24	24 MIN.	24 MIN.	24 MIN.	27 MIN.
H	URINAL LIP HEIGHT	17	-	-	17 MAX.	17 MAX.
J	URINAL FLUSH HANDLE HEIGHT	-	-	-	44 MAX.	40 MAX.
K	TOILET FLUSH HANDLE HEIGHT	-	20 MAX.	22 MAX.	20 MAX.	40 MAX.
L	SOAP DISPENSER HEIGHT	36 MAX.	40 MAX.	-	44 MAX.	40 MAX.
	DRINKING FOUNTAIN BUBBLER HEIGHT	30 MAX.	30 MAX.	30 MAX.	30 MAX.	36 MAX.
	DRINKING FOUNTAIN KNEE CLEARANCE	-	23 MIN.	-	23 MIN.	27 MIN.

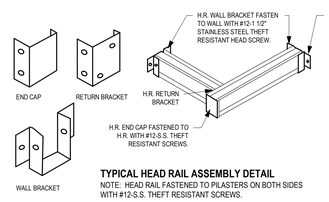
NOTES:
1. FOR MIRRORS NOT MOUNTED AT A LAVATORY, AT LEAST ONE MIRROR IS TO BE MOUNTED @ 35" MAX., PER CBC SEC. 11B-603.3, SEE DETAIL
2. ADULT DIMENSIONS ARE FOR THOSE AGED 12 AND OVER.
3. GRAB BARS REQUIRE 2X BLOCKING, ALL OTHER FIXTURES CAN BE ANCHORED INTO WALLS THAT HAVE PLY. WD. UNDER GYP OR CLT. REFER TO GRAB BAR AND MIRROR DETAILS ON THIS SHEET FOR ANCHORAGE.
4. COAT HOOKS AT ACCESSIBLE STALLS TO BE MAX. 48" A.F.F. 11B-308.2.1.
5. MOUNTING HEIGHT FOR SHELVES IN RESTROOMS TO BE 40"-48" A.F.F. THEY SHALL BE ACCESSIBLE BUT SHALL NOT BE LOCATED IN A CIRCULATION PATH. 11B-307.2



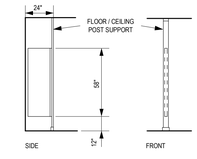
19 WALL PANEL ANCHORAGE
SCALE: 3" = 1'-0"



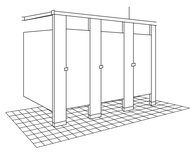
TYPICAL STALL ELEVATION



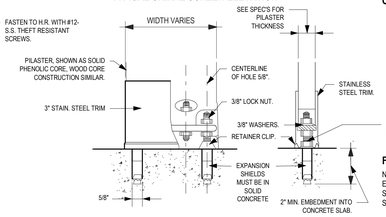
TYPICAL HEAD RAIL ASSEMBLY DETAIL
NOTE: HEAD RAIL FASTENED TO PILASTERS ON BOTH SIDES WITH #12-S.S. THEFT RESISTANT SCREWS.



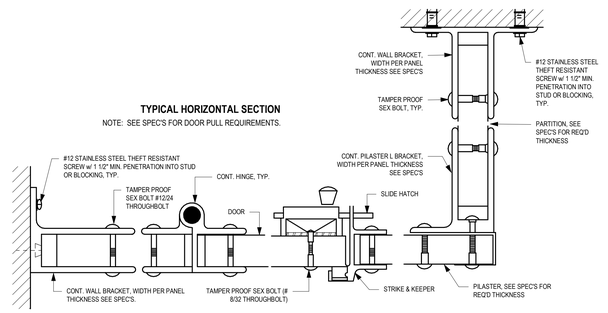
TYPICAL URINAL SCREEN ELEVATION



OVERHEAD BRACED



FLOOR ATTACHMENT DETAIL
NOTE: DRILL HOLES FOR FLOOR ATTACHMENT 5/8" FROM EDGE OF PILASTER. TYPICAL FOR ALL LOCATIONS. PLACE STAINLESS STEEL TRIM ON PILASTER, SLIDE UP BEFORE SECURING PILASTER TO FLOOR ATTACHMENT.



TYPICAL HORIZONTAL SECTION
NOTE: SEE SPEC'S FOR DOOR PULL REQUIREMENTS.

15 TOILET PARTITION ANCHORAGE DETAILS
SCALE: 1 : 1

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PROJECT
LYDIKSEN ELEMENTARY SCHOOL MODERNIZATION

PLEASANTON UNIFIED SCHOOL DISTRICT

CONSULTANT

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LICENSED ARCHITECT JAMES A. AEDIS 11-30-21 STATE OF CALIFORNIA

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APPL # 01-119816

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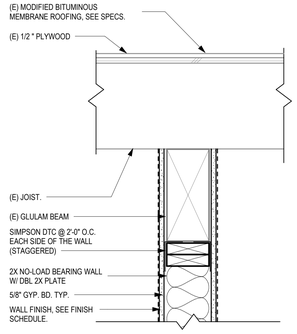
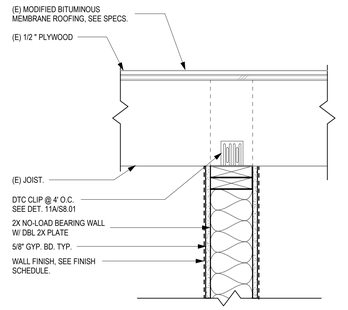
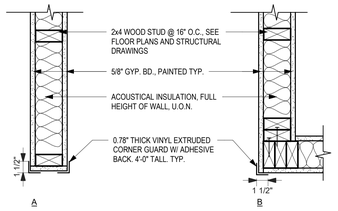
JOB # 2020029.02
SHEET # A9.05



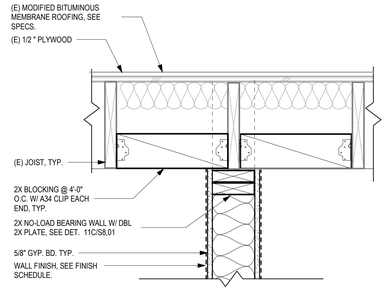
5 TOP OF PARTITION WALL UNDER GLB
SCALE: 1 1/2" = 1'-0"



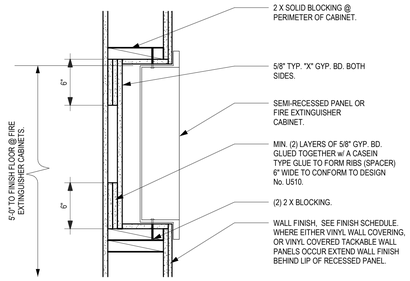
1 TOP OF PARTITION WALL @ PPERPENDICULAR TO JOIST
SCALE: 1 1/2" = 1'-0"



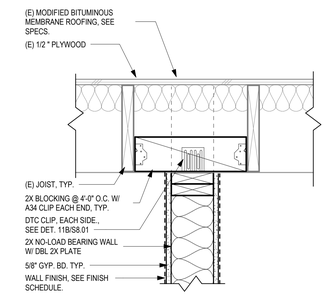
6 INT. CORNER GAURD
SCALE: 1 1/2" = 1'-0"



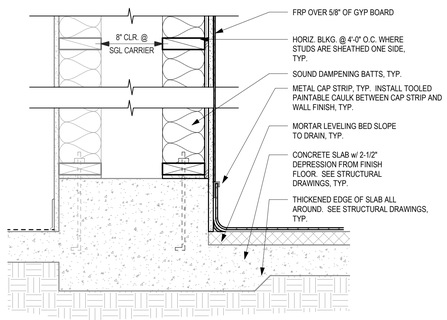
2 TOP OF PARTITION WALL @ PARALLEL TO JOIST
SCALE: 1 1/2" = 1'-0"



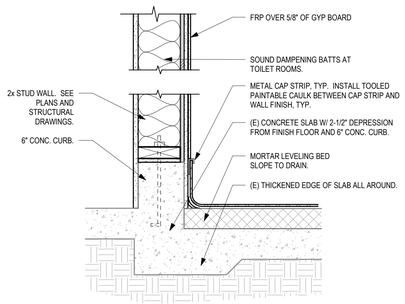
7 1 HR RATED RECESSED PANEL
SCALE: 1 1/2" = 1'-0"



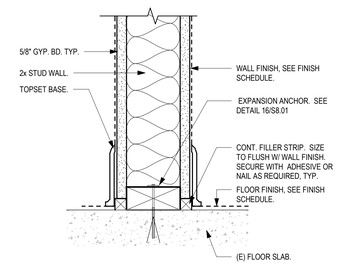
3 TOP OF PARTITION WALL @ PARALLEL TO JOIST
SCALE: 1 1/2" = 1'-0"



12 TOILET PLUMBING CHASE @ SINGLE CARRIER
SCALE: 1 1/2" = 1'-0"



8 COVED BASE @ TOILET ROOM
SCALE: 1 1/2" = 1'-0"



4 TYPICAL INTERIOR WALL BASE (2x STUDS)
SCALE: 3" = 1'-0"

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PROJECT

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PLEASANTON UNIFIED SCHOOL DISTRICT

CONSULTANT

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REVISIONS

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SHEET

INTERIOR DETAILS

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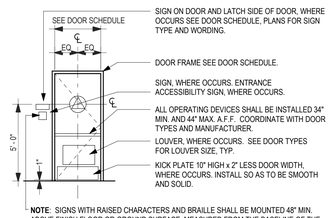
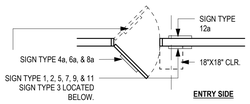
SHEET # A9.06



NOTE: SIGNS WITH RAISED CHARACTERS AND BRAILLE SHALL BE MOUNTED 48" MIN. ABOVE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST LINE OF BRAILLE, AND 60" MAX. ABOVE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS, PER CBC 2019 11B-703.4.1.

TYPICAL DOOR & FRAME ELEVATION

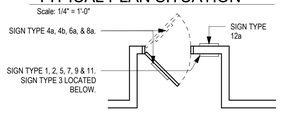
Scale: 1/4" = 1'-0"



NOTE: SEE ELEV. FOR MOUNTING HEIGHTS.

TYPICAL PLAN SITUATION

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



OPTIONAL PLAN SITUATION

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

NOTES:

1. PROVIDE TRIANGULAR SIGN (WITH 12" SIDES) AT ALL MEN'S AND BOY'S, AND CIRCULAR SIGN (WITH 12" DIAMETER) AT ALL WOMEN'S AND GIRL'S TOILET DOORWAYS AND WALL ADJACENT TO LATCH LEADING TO SANITARY FACILITIES PER CBC 2019 SECTION 11B-216.8 & 11B-703.7.2.6, MOUNTED AT 5'-0" TO CENTER OF SIGN TO FINISH FLOOR.
2. ALL RATED DOORS TO BE POSITIVE LATCHING AND SELF CLOSING. ALL DOORS TO COMPLY WITH 2019 CBC, SEC. 716.
3. ALL 20 MINUTE RATED ASSEMBLIES SHALL BE PROVIDED WITH APPROVED GASKETING MATERIAL INSTALLED TO PROVIDE A SEAL WHERE THE DOOR MEETS THE STOP ON BOTH SIDES AND ACROSS THE TOP. (PER U.B.C. STANDARDS)
4. ALL DOORS SHALL BE 1-3/4" THICK U.O.N.
5. ALUMINUM EXTERIOR SIGNAGE FRAMES SHALL BE ATTACHED TO SUBSTRATE WITH VANDAL PROOF FASTENERS WITH EXPANSION SHIELDS. NAME OR ROOM NAME PLATES SHALL BE ATTACHED TO FRAME WITH BRASS SCREWS, AS APPROVED BY ARCHITECT.
6. BRAILLE TEXT SHALL BE CALIFORNIA GRADE 2 BRAILLE PER TITLE 24, SECTION 11B-703.3, TYP.
7. ALL SIGNS AND IDENTIFICATION (AT MAIN ENTRANCE, TOILETS, PERMANENT ASSISTIVE LISTENING, ETC. SHALL COMPLY WITH TITLE 24 , AND CBC SECTIONS 11B-216 AND 11B-703.1 THROUGH 11B-703.7.
8. CONTRACTOR TO VERIFY ALL OPENING DIMENSIONS IN FIELD.

1 TYPICAL DOOR NOTES1

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

DOOR SCHEDULE

DOOR ID	OPENING SIZE		DOOR			FRAME		DETAILS (Sheet A10.02 U.O.N.)				FIRE RATING	HARDWARE GROUP	SIGN	
	WIDTH	HEIGHT	TYPE	FINISH	GLAZING	TYPE	FINISH	HEAD	JAMB-1	JAMB-2	SILL			TYPE	LANGUAGE
C1a	3' - 0"	7' - 0"	D	ANODIZED ALUM.	TG	F3	ANODIZED ALUM.	13/A10.02	14/A10.02	14/A10.02	11/A10.02		01	1,11	CLASSROOM
C2a	3' - 0"	7' - 0"	D	ANODIZED ALUM.	TG	F3	ANODIZED ALUM.	13/A10.02	14/A10.02	14/A10.02	11/A10.02		01	1,11	CLASSROOM
C3a	3' - 0"	7' - 0"	D	ANODIZED ALUM.	TG	F3	ANODIZED ALUM.	13/A10.02	14/A10.02	14/A10.02	11/A10.02		01	1,11	CLASSROOM
C4a	3' - 0"	7' - 0"	D	ANODIZED ALUM.	TG	F3	ANODIZED ALUM.	13/A10.02	14/A10.02	14/A10.02	11/A10.02		01	1,11	CLASSROOM
C5a	3' - 0"	7' - 0"	A	PAINTED		F1	PAINTED	13/A10.02	14/A10.02	14/A10.02	11/A10.02		11	8a,9	
C6a	3' - 0"	7' - 0"	D	ANODIZED ALUM.	TG	F4	ANODIZED ALUM.	20/A10.02	18/A10.02	18/A10.02			05	2	INTERVENTION
C7a	3' - 0"	6' - 8"	A	PAINTED		EXISTING	PAINTED						06	2	STORAGE
C8	3' - 0"	7' - 0"	D	ANODIZED ALUM.		F2	ANODIZED ALUM.	9/A10.02	14/A10.02	14/A10.02	11/A10.02		01	12a	ADMIN OFFICES
C9a	3' - 0"	6' - 8"	A	PAINTED		EXISTING	PAINTED						03	2	ELECTRICAL ROOM
C10a	3' - 0"	7' - 0"	A	PAINTED		EXISTING	PAINTED						07	6a, 7	
C11a	3' - 0"	7' - 0"	C	PAINTED	CL	F1	PAINTED	1/A10.02	5/A10.02	5/A10.02			09	2	SPEECH
C12a	3' - 0"	7' - 0"	C	PAINTED	CL	F1	PAINTED	1/A10.02	5/A10.02	5/A10.02			09	2	SPEECH
C13a	3' - 0"	7' - 0"	A	PAINTED		F1	PAINTED	1/A10.02	5/A10.02	5/A10.02		--	10	8a,9	
C14a	3' - 0"	6' - 8"	A	PAINTED		F1	PAINTED	1/A10.02	5/A10.02	5/A10.02			04	2	CUSTODIAN
C15a	3' - 0"	7' - 0"	A	PAINTED		F1	PAINTED	1/A10.02	5/A10.02	5/A10.02		--	08	4a, 5	
C16a	3' - 0"	7' - 0"	C	PAINTED	CL	F1	PAINTED	1/A10.02	5/A10.02	5/A10.02			09	2	DEAF HEARING
C17a	3' - 0"	7' - 0"	D	ANODIZED ALUM.	TG	F3	ANODIZED ALUM.	13/A10.02	14/A10.02	14/A10.02	11/A10.02		02	2	COUNSELOR
C17b	3' - 0"	7' - 0"	C	PAINTED	CL	F1	PAINTED	1/A10.02	5/A10.02	5/A10.02			09	2	COUNSELOR
C18a	3' - 0"	7' - 0"	C	PAINTED	CL	F1	PAINTED	1/A10.02	5/A10.02	5/A10.02			05	2	--
C18b	3' - 0"	7' - 0"	A	PAINTED		EXISTING	PAINTED			--		--	05	2	-
C19a	3' - 0"	7' - 0"	C	PAINTED	CL	F1	PAINTED	1/A10.02	5/A10.02	5/A10.02			09	2	COUNSELOR
C20a	3' - 0"	7' - 0"	A	PAINTED		F1	PAINTED	1/A10.02	5/A10.02	5/A10.02			06	2	PE STORAGE
C20b	3' - 0"	7' - 0"	A	PAINTED		F1	PAINTED	1/A10.02	5/A10.02	5/A10.02			06	2	PE STORAGE
C21a	3' - 0"	7' - 0"	C	PAINTED	CL	F1	PAINTED	1/A10.02	1 / A10.03	5/A10.02			09	2	PSYCHOLOGY
C22a	3' - 0"	7' - 0"	D	ANODIZED ALUM.	TG	F3	ANODIZED ALUM.	13/A10.02	14/A10.02	5/A10.02	11/A10.02		02	2	PE OFFICE
C23a	3' - 0"	7' - 0"	D	ANODIZED ALUM.	TG	F4	ANODIZED ALUM.	20/A10.02	18/A10.02	5/A10.02			05	2	RESOURCE
C24a	3' - 0"	6' - 8"	A	PAINTED		EXISTING	PAINTED						06	2	STORAGE
C25a	3' - 0 3/4"	7' - 0"	D	ANODIZED ALUM.	TG	F3	ANODIZED ALUM.	13/A10.02	14/A10.02	14/A10.02	11/A10.02		01	2	ADMIN OFFICES
C25b	3' - 0"	7' - 0"	C	PAINTED		F1	PAINTED	1/A10.02	5/A10.02	5/A10.02		--			

DOOR SCHEDULE GENERAL NOTES

1 CONTRACTOR SHALL COORDINATE, PRIOR TO FABRICATION, DOOR FRAME DEPTH TO ACCEPT ALL WALL FINISHES AS DETAILED IN THE DRAWINGS.

2 ALL ROOMS WITH AN OCCUPANCY OF 5 OR MORE PERSONS SHALL BE LOCKABLE FROM THE INSIDE IN COMPLIANCE WITH DSA BULLETIN 11-05, EXCEPTIONS AS NOTED IN THE BULLETIN.

3 CONTRACTOR SHALL VERIFY SIGN LANGUAGE WITH DISTRICT PRIOR TO FABRICATION.

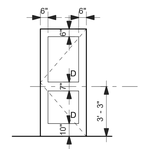
4 ALL ANODIZED ALUMINUM COLOR SHALL BE DARK BRONZE

A **HOLLOW METAL**

INTERIOR

C **WOOD**

SINGLE DOOR WITH VISION LITE

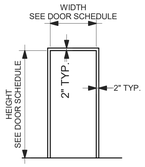


D **ALUMINUM FLUSH**

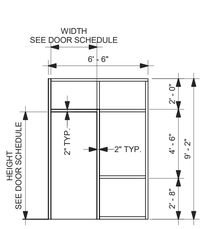
SINGLE DOOR WITH DOUBLE LITE

DOOR TYPES

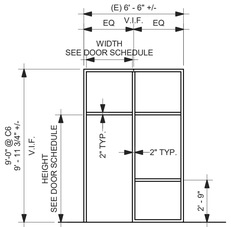
SCALE: 1/4" = 1'-0"



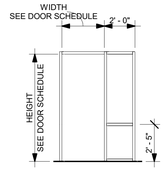
F1 **HOLLOW METAL**



F2 **ALUMINUM**



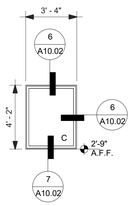
F3 **ALUMINUM**



F4 **ALUMINUM**

FRAME TYPES

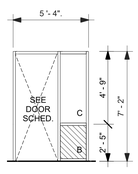
SCALE: 1/4" = 1'-0"



W1 **ALUMINUM**

GLAZING - **TYPE A**

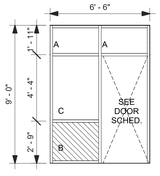
ROLLER SHADE - MANUAL



W2 **ALUMINUM STOREFRONT**

GLAZING - **TYPE B, C**

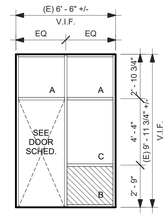
ROLLER SHADE - MANUAL



W3 **ALUMINUM STOREFRONT**

GLAZING - **TYPE A, B, C**

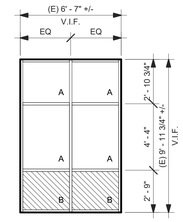
ROLLER SHADE - MANUAL



W4 **ALUMINUM STOREFRONT**

GLAZING - **TYPE A, B, C**

ROLLER SHADE - MANUAL



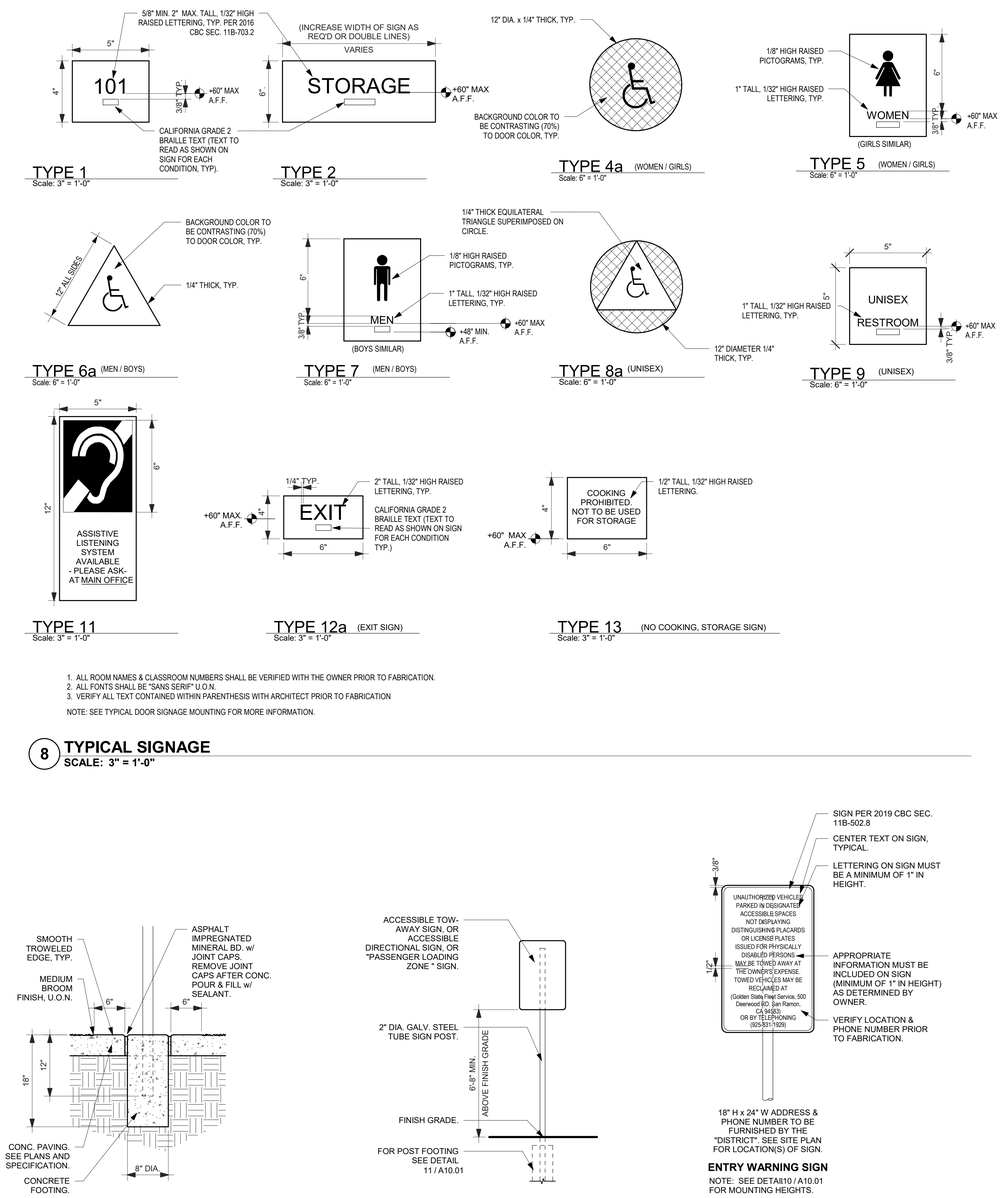
W5 **ALUMINUM STOREFRONT**

GLAZING - **TYPE A, B**

ROLLER SHADE - MANUAL

2 WINDOW TYPE - W1

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



1. ALL ROOM NAMES & CLASSROOM NUMBERS SHALL BE VERIFIED WITH THE OWNER PRIOR TO FABRICATION.
2. ALL FONTS SHALL BE "SANS SERIF" U.O.N.
3. VERIFY ALL TEXT CONTAINED WITHIN PARENTHESIS WITH ARCHITECT PRIOR TO FABRICATION

NOTE: SEE TYPICAL DOOR SIGNAGE MOUNTING FOR MORE INFORMATION.

8 TYPICAL SIGNAGE

SCALE: 3" = 1'-0"

11 SITE SIGN FOOTING DETAIL

SCALE: 1" = 1'-0"

10 SITE SIGN MOUNTING DETAIL

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

ENTRY WARNING SIGN

NOTE: SEE DETAIl10 / A10.01 FOR MOUNTING HEIGHTS.

5 TOW AWAY SIGNAGE

SCALE: 1" = 1'-0"

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PROJECT

LYDIKSEN ELEMENTARY SCHOOL MODERNIZATION

PLEASANTON UNIFIED SCHOOL DISTRICT

CONSULTANT

STAMP

STATE

DSA FILE NUMBER 1-32

APPL # 01-119816

REVISIONS

No.	Description	Date

MILESTONES

SD	06/28/2021
DD	08/23/2021
50% CD	09/20/2021
90% CD	10/14/2021
DSA SUB	10/19/2021

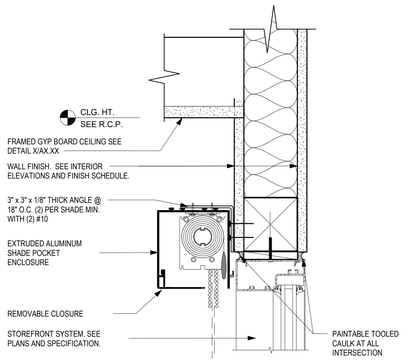
SHEET

OPENING SCHEDULE & TYPES, SIGNAGE

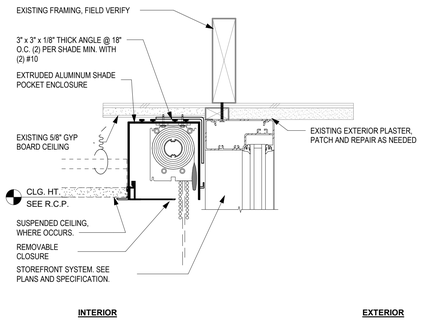
DATE 02/15/2022

JOB # 2020029.02

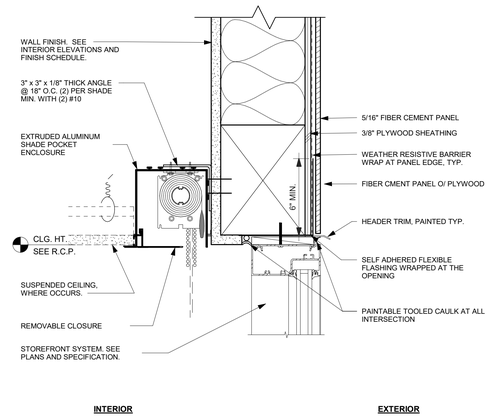
SHEET # A10.01



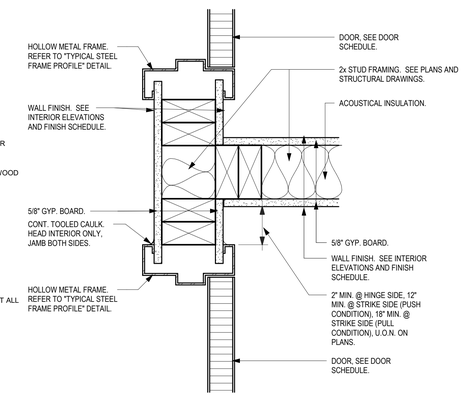
17 WINDOW HEAD DETAIL
SCALE: 3" = 1'-0"



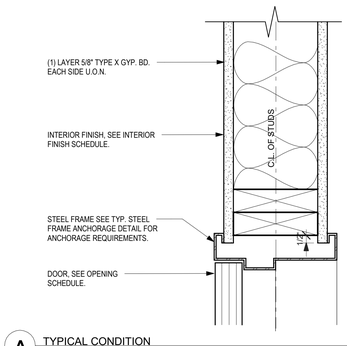
13 STOREFRONT HEAD AT EXISTING WALL
SCALE: 3" = 1'-0"



9 STOREFRONT HEAD AT NEW WALL
SCALE: 3" = 1'-0"

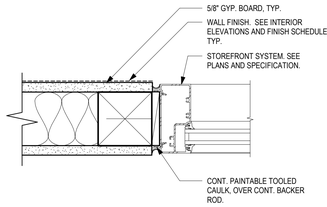


5 INTERIOR STEEL DOOR JAMB @ WALL INTERSECTION
SCALE: 3" = 1'-0"

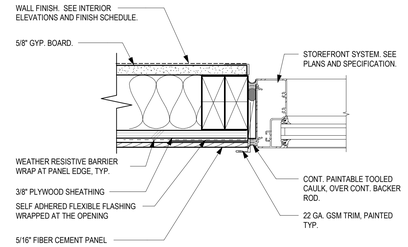


A TYPICAL CONDITION
SCALE: 3" = 1'-0"

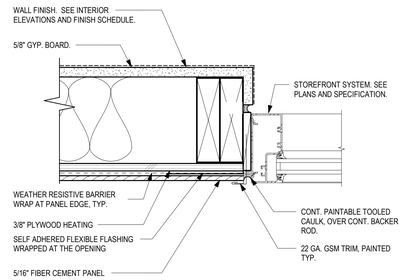
1 INTERIOR STEEL FRAME HEAD AND JAMB
SCALE: 3" = 1'-0"



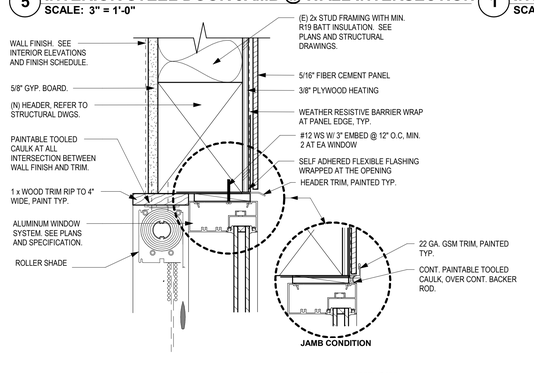
18 STOREFRONT JAMB AT INTERIOR WALL
SCALE: 3" = 1'-0"



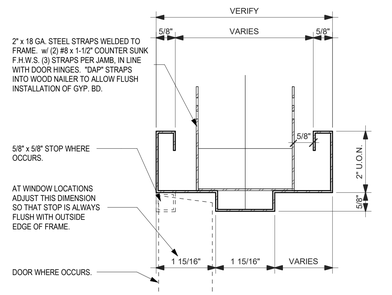
14 STOREFRONT JAMB AT EXISTING WALL
SCALE: 3" = 1'-0"



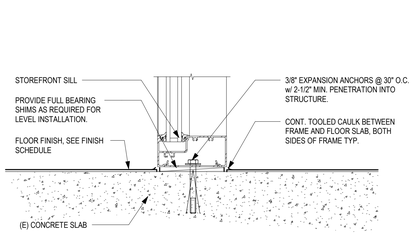
10 STOREFRONT JAMB AT NEW WALL
SCALE: 3" = 1'-0"



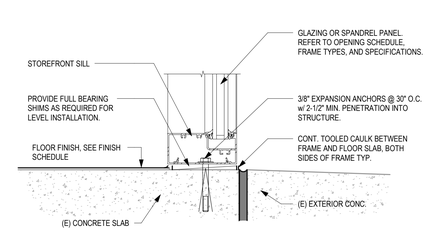
6 ALUMINUM WINDOW HEAD
SCALE: 3" = 1'-0"



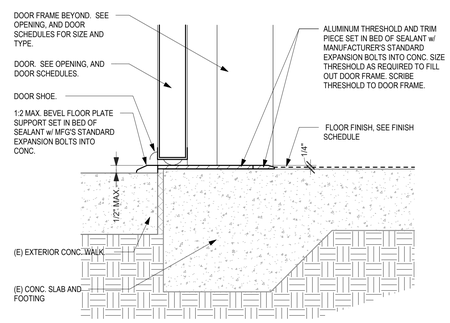
2 TYPICAL STEEL FRAME PROFILE-MOD
SCALE: 6" = 1'-0"



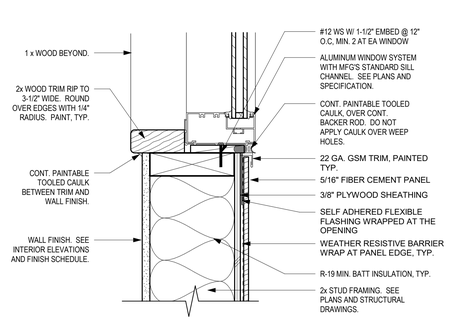
19 INTERIOR STOREFRONT SILL
SCALE: 3" = 1'-0"



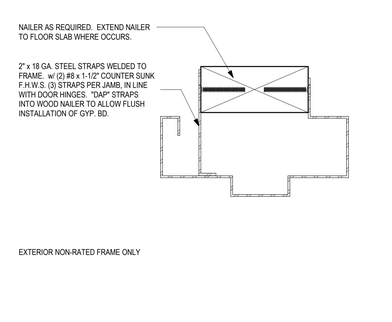
15 EXTERIOR STOREFRONT FRAME SILL
SCALE: 3" = 1'-0"



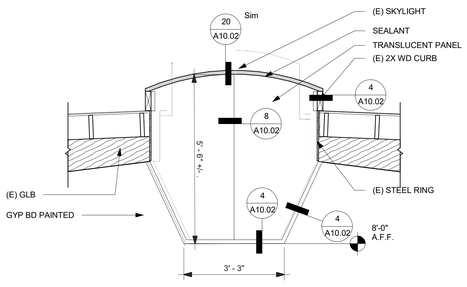
11 TYPICAL EXTERIOR DOOR SILL DETAIL
SCALE: 3" = 1'-0"



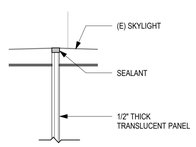
7 ALUMINUM WINDOW SILL
SCALE: 3" = 1'-0"



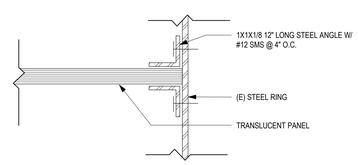
3 TYP. EXTERIOR STEEL FRAME ANCHORAGE-MOD
SCALE: 12" = 1'-0"



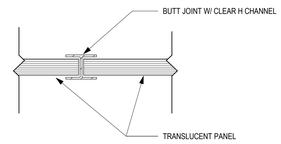
16 GLAZING AT SKYLIGHT
SCALE: 1/2" = 1'-0"



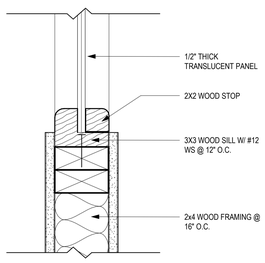
20 TRANSLUCENT PANEL HEAD
SCALE: 3" = 1'-0"



12 TRANSLUCENT PANEL AT STEEL RING
SCALE: 6" = 1'-0"



8 TRANSLUCENT PANEL LAP JOINT
SCALE: 6" = 1'-0"



4 TRANSLUCENT PANEL ATTACHMENT
SCALE: 3" = 1'-0"

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fax: (408)-300-5121

PROJECT

LYDIKSEN ELEMENTARY SCHOOL MODERNIZATION

PLEASANTON UNIFIED SCHOOL DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT — JOSEPH A. AEDIS — C-31812 — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 1-32

APPL # 01-119816

REVISIONS

No.	Description	Date

MILESTONES

SD	06/28/2021
DD	08/23/2021
50% CD	09/20/2021
90% CD	10/14/2021
DSA SUB	10/19/2021

SHEET

OPENING DETAILS

DATE 02/15/2022

JOB # 2020029.02

SHEET #

A10.02

FINISH LEGEND

MARK	DESCRIPTION	MFR. / BRAND	COLOR / FINISH	COMMENTS
ACC-1	ACOUSTICAL CEILING CLOUD	ARMSTRONG/SOUND SCAPES	WHITE	
ACT-1	ACOUSTICAL CEILING TILE	USG	2742 RADAR	
B-1	4" RUBBER TOP SET BASE	MANNINGTON COMMERCIAL BURKE	502/BROWN	
B-2	6" EPOXY COVED BASE	TERALITE TERRAGEM III DQ	BONE WHITE	
CPT-1	CARPET (TILE)	TANDUS/APPLAUSE II	MOSAIC/28502	
CPT-2	WALK-OFF MAT	TANDUS/ABRASIVE ACTION	CHARCOAL/19100	
EP-1	EXTERIOR PAINT	DUNN EDWARDS	DEC752/BIRCHWOOD	FIELD PAINT
EP-2	EXTERIOR PAINT	DUNN EDWARDS	DEC759/HICKORY	ACCENT PAINT
EP-3	EXTERIOR PAINT	DUNN EDWARDS	DE5977/MUTED BERRY	ACCENT PAINT
EPX-1	EPOXY FLOORING	TERALITE TERRAGEM III DQ	BONE WHITE	
FRP-1	FIBERGLASS REINFORCED PLASTIC PANELS	MARLITE	NATURAL ALMOND/P-118	
GB	GYPSUM BOARD	SEE SPECIFICATIONS	WHITEST WHITE/KMW43	PAINTED TYP., U.O.N
IP-1	INTERIOR PAINT	DUNN EDWARDS	STUCCO TAN/DE6205	
IP-2	INTERIOR PAINT	DUNN EDWARDS	BLUEMOON/DE5764	ACCENT PAINT
IP-3	INTERIOR PAINT	DUNN EDWARDS	CHEESECAKE/DE5309	
PL-1	PLASTIC LAMINATE	WILSONART	VERANDA TEAK	CASEWORK EXPOSED SURFACE
PL-2	PLASTIC LAMINATE	WILSONART	CHARCOAL VELVET	COUNTER TOP
RT-1	VINYL COMPOSITION TILE	ARMSTRONG/PREMIUM EXCELON	5C811/ANTIQUE WHITE/CROWN TEXTURE	FIELD MARMOLEUM TILE U.O.N
RWS	ROLLER WINDOW SHADE	MECHOSHADES/THERMOVEIL	1502 BEIGE	
SC-1	SEALED CONCRETE	SEE SPECIFICATIONS		
TWP-1	TACKABLE WALL PANELS (O/ GYP. BD.)	KOROSEAL/SONESTA	CERES TERN (B321-05)	
WS	WRITABLE WALL PANEL	NELSOM ADAMS	WHITE	

CASEWORK SCHEDULE

MARK	WOODWORK INSTITUTE CASEWORK DESIGN SERIES #	WIDTH	HEIGHT	DEPTH	COMMENTS
C-1	155-	3' - 0"	2' - 6"	2' - 0"	
C-2	222	3' - 0"	2' - 6"	2' - 0"	
C-2C	222	2' - 0"	2' - 8 1/2"	2' - 0"	
C-3	302	3' - 0"	2' - 6"	1' - 0 1/2"	
C-3C	302	4' - 0"	2' - 6"	1' - 0 1/2"	
C-4	530	3' - 0"	7' - 0"	2' - 0"	TALL CABINET
C-5	302	3' - 0"	2' - 6"	1' - 0 1/2"	
C-6	222	3' - 0"	2' - 6"	2' - 0"	
C-8	530	3' - 0"	7' - 0"	2' - 0"	TALL CABINET
C-10	155-	3' - 0"	2' - 0"	2' - 0"	
C-11	222	3' - 0"	2' - 0"	2' - 0"	

FINISH SCHEDULE

NUMBER	NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	COMMENTS
C1	CLASSROOM	CPT-1,CPT-2	B-1	IP-3, TWP-1, WS	(E) GB, IP-1	
C2	CLASSROOM	CPT-1,CPT-2	B-1	IP-3, TWP-1, WS	(E) GB, IP-1	
C3	CLASSROOM	CPT-1,CPT-2	B-1	IP-3, TWP-1, WS	(E) GB, IP-1	
C4	CLASSROOM	CPT-1,CPT-2	B-1	IP-3, TWP-1, WS	(E) GB, IP-1	
C5	STUDENT UNISEX RR.	EPX-1	B-2	FRP-1	(E) GB, IP-1	
C6	INTERVENTION	CPT-1	B-1	IP-3	(E) GB, IP-1	
C7	STOR.	SC-1	B-1	IP-1	(E) GB, IP-1	
C8	WORKROOM	RT-1	B-1	IP-2, IP-3	ACT-1, GB, IP-1	
C9	ELECT.	SC-1	B-1	IP-1	(E) GB, IP-1	
C10	BOYS RESTROOM	EPX-1	B-2	FRP-1	(E) GB, IP-1	
C11	SPEECH 1	CPT-1	B-1	IP-3	GB, IP-1, ACC-1	
C12	SPEECH 2	CPT-1	B-1	IP-3	GB, IP-1, ACC-1	
C13	UNISEX RR.	EPX-1	B-2	FRP-1	GB, IP-1	
C14	CUSTODIAL	SC-1	B-1	IP-1, FRP-1	GB, IP-1	
C15	GIRLS RR.	EPX-1	B-2	FRP-1	(E) GB, IP-1	
C16	DEAF/HEARING	CPT-1	B-1	IP-3	(E) GB, GB, IP-1	
C17	COUNSELOR	CPT-1,CPT-2	B-1	IP-3	(E) GB, IP-1, ACC-1	
C18	UNASSIGNED	CPT-1	B-1	IP-3	(E) GB, GB, IP-1	
C19	OCCU. THERAPY	CPT-1	B-1	IP-3	(E) GB, IP-1, ACC-1	
C20	PE STORAGE	SC-1	B-1	IP-1	(E) GB, GB, IP-1	
C21	PSYCHOLOGY	CPT-1	B-1	IP-3	(E) GB, IP-1, ACC-1	
C22	PE OFFICE	CPT-1,CPT-2	B-1	IP-3	(E) GB, IP-1, ACC-1	
C23	RESOURCE	CPT-1	B-1	IP-3	(E) GB, IP-1	
C24	STOR.	SC-1	B-1	IP-1	(E) GB, IP-1	
C25	HALLWAY	CPT-1,CPT-2	B-1	IP-3	ACT-1	
E114	TK CLASSROOM	VCT-1,CPT-1	B-1	IP-3, WS, TWP-1	(E) ACT, ACT-1	
E115	FLEX CLASSROOM	VCT-1,CPT-1	B-1	IP-3, WS, TWP-1	(E) ACT, ACT-1	
E129	UNISEX TK RR	EPX-1	B-2	FRP-1	(E) GB, IP-1	

GENERAL FINISH NOTES

A WHERE MULTIPLE WALL FINISHES ARE CALLED OUT, REFER TO INTERIOR ELEVATIONS FOR LOCATIONS OF INDIVIDUAL FINISHES.

B WHERE MULTIPLE FLOOR FINISHES ARE CALLED OUT, REFER TO FLOOR FINISH PLANS FOR LOCATIONS OF INDIVIDUAL FINISHES.

C PROVIDE FINISHES TO COMPLY WITH FLAME SPREAD & SMOKE DENSITY REQUIREMENTS OF CBC 803 and 804.

GENERAL CASEWORK NOTES

1 REFER TO INTERIOR ELEVATIONS FOR QUANTITIES, LOCATIONS, FINISHES.

2 CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL DIMENSIONS PRIOR TO FABRICATION.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119816 INC:
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DATE: 02/25/2022

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PROJECT

LYDIKSEN ELEMENTARY SCHOOL MODERNIZATION

PLEASANTON UNIFIED SCHOOL DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 1-32

APPL # 01-119816

REVISIONS

No.	Description	Date

MILESTONES

SD	06/28/2021
DD	08/23/2021
50% CD	09/20/2021
90% CD	10/14/2021
DSA SUB	10/19/2021

SHEET

FINISH SCHEDULE & LEGEND & CASEWORK SCHEDULE

DATE 02/15/2022

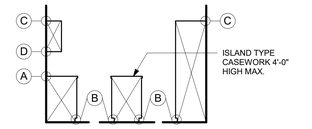
JOB # 2020029.02

SHEET # A11.01

CASEWORK GENERAL NOTES

1 REFER TO INTERIOR ELEVATIONS FOR QUANTITIES, LOCATIONS, FINISHES.

2 CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL DIMENSIONS PRIOR TO FABRICATION.



DETAIL LOCATION KEY
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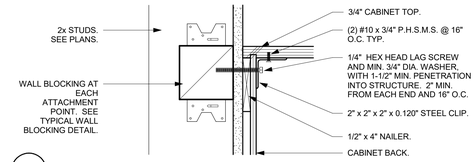

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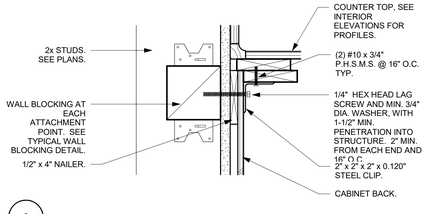

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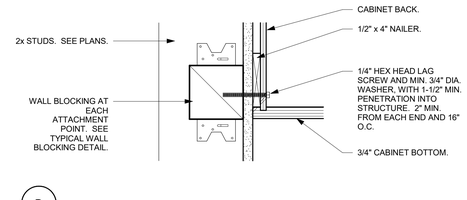

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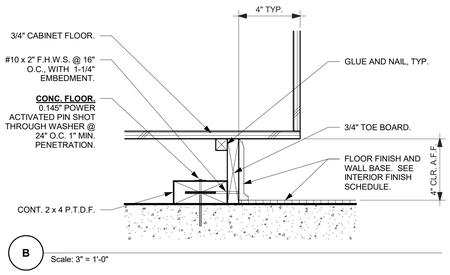
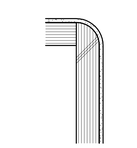


B
Scale: 3" = 1'-0"

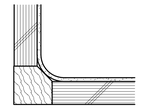
NOTE:

1 PAINT ALL ANCHORAGE HARDWARE TO MATCH THE CABINET FACE TO WHICH IT IS BEING ATTACHED, THIS INCLUDES ALL SCREW HEADS.
2 CONTRACTOR SHALL SCRIBE ALL CABINET EDGES TO WALL SURFACE EVERYWHERE CABINET COMES INTO CONTACT WITH WALL. CONTRACTOR SHALL ALSO PROVIDE A TOOLED BEAD OF CLEAR CAULK BETWEEN ALL CABINET EDGES AND WALL.
3 FASTEN CABINETS TOGETHER USING 1-1/4" F.H.W.S. THROUGH CABINET FACE FRAME, TOP AND BOTTOM.

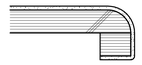
12 CABINET ANCHORAGE DETAILS
SCALE: 3" = 1'-0"



A WATERFALL TOP
TOP PROFILES

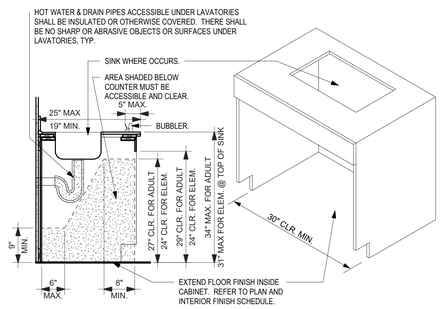


D INTEGRAL COVED SPLASH JOINT
SPLASH JOINT PROFILES



F WATERFALL EDGE
EDGE PROFILE

20 COUNTERTOP PROFILES
SCALE: 6" = 1'-0"



3 ACCESSIBLE CABINET BASE DETAIL NO DOORS
SCALE: 3/4" = 1'-0"

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PROJECT

LYDIKSEN ELEMENTARY SCHOOL MODERNIZATION

PLEASANTON UNIFIED SCHOOL DISTRICT

CONSULTANT

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LICENSED ARCHITECT
JOSEPH A. ALLEN
C-29812
EXP. 08-31-2023
STATE OF CALIFORNIA

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APPL # 01-119816

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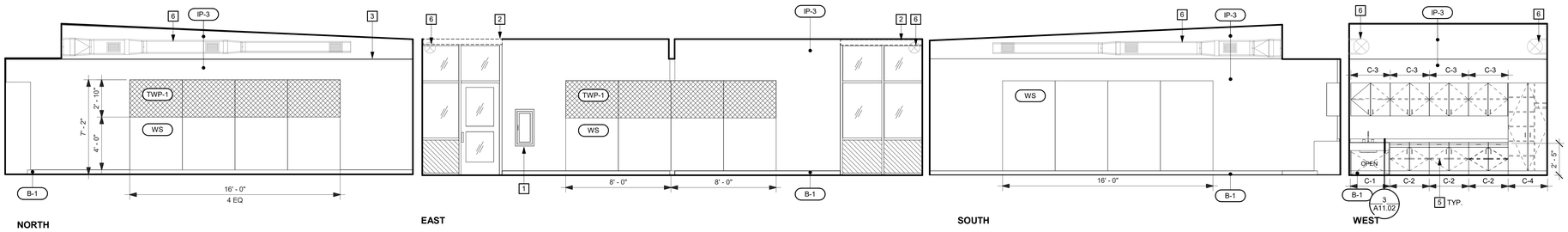
SHEET

CASEWORK DETAILS

DATE 02/15/2022

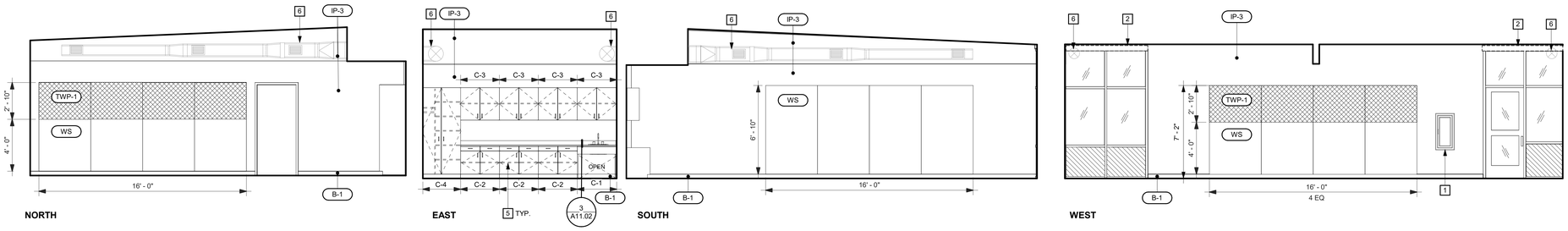
JOB # 2020029.02

SHEET # A11.02



1 CLASSROOM - C1 - INTERIOR ELEVATIONS

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

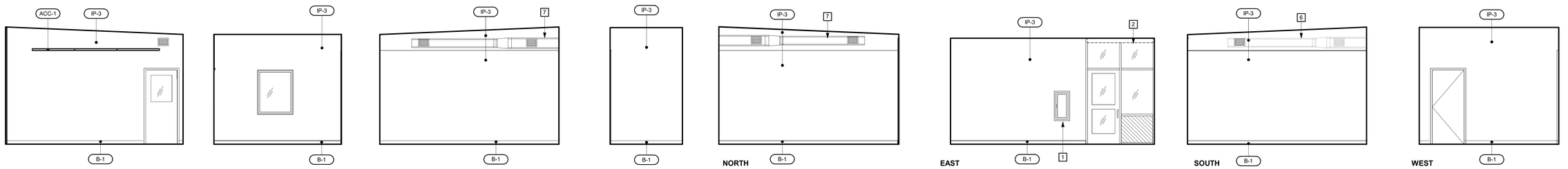


2 CLASSROOM - C4 - INTERIOR ELEVATIONS

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

3 RESOURCE - C23 - INTERIOR ELEVATIONS

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



4 PSYCHOLOGY - C21 - INTERIOR ELEVATIONS

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

5 PE OFFICE - C22 - INTERIOR ELEVATIONS

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

GENERAL SHEET NOTES

A FOR INTERIOR FINISHES NOT SHOWN ON ELEVATIONS REFER TO INTERIOR FINISH SCHEDULE.

B CABINET ELEVATIONS AS SHOWN IN THE INTERIOR ELEVATIONS ARE FOR REFERENCE ONLY. ACTUAL CABINET DESIGN CRITERIA AND SIZES ARE DESIGNATED IN THE CASEWORK SCHEDULE USING THE WOODWORK INSTITUTES' "CABINET DESIGN SERIES (CDS)" NUMBERING SYSTEM, WHERE INDIVIDUAL CASEWORK DESIGN REQUIREMENTS DO NOT FIT WITHIN THE CDS NUMBERING SYSTEM CABINETS ARE DETAILED SEPARATELY AS REFERENCED IN THE CASEWORK SCHEDULE.

C ALL EXPOSED CONDUITS AND PIPES SHALL BE PAINTED U.O.N.

D ALL EXPOSED STRUCTURE AND CEILING BE PAINTED U.O.N.

INTERIOR ELEVATION KEYNOTES

1 (E) FIRE EXTINGUISHER TO REMAIN, PROTECT DURING CONSTRUCTION
2 MANUALLY OPERATED SHADES WITH SINGLE ROLLERS.
3 (E) GLULAM BEAM.
4 SEMI-RECESSED FIRE EXTINGUISHER CABINET, SEE DETAIL 7/A9.06
5 PROVIDE FIXED SHELVE @ 15" MIN. A.F.F. TYP.
6 (E) DUCT WORK, S.M.D.
7 DUCT WORK, S.M.D.

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RENEWAL 08/31/2023
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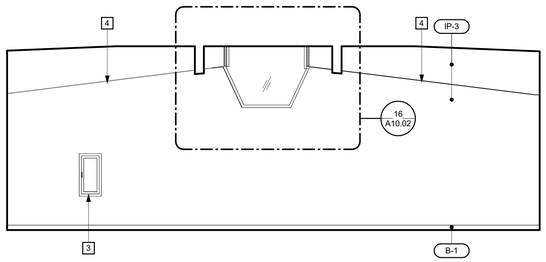
SHEET

INTERIOR ELEVATIONS

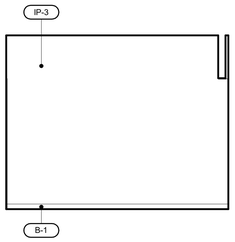
DATE 02/15/2022

JOB # 2020029.02

SHEET # A12.01



NORTH



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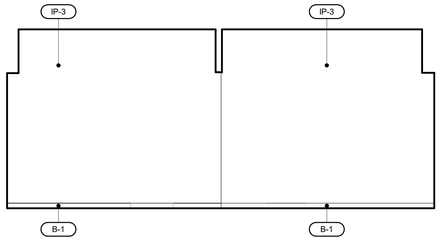
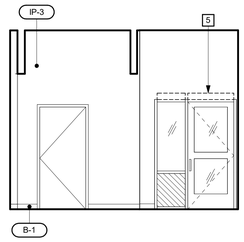


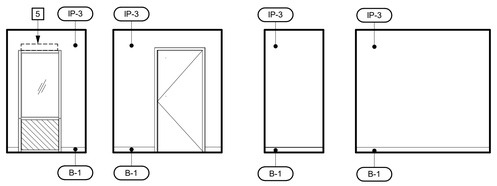
SOUTH



WEST

1 INTERVENTION - C6 - INTERIOR ELEVATIONS

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

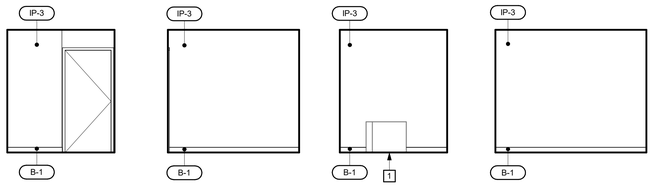


NORTH

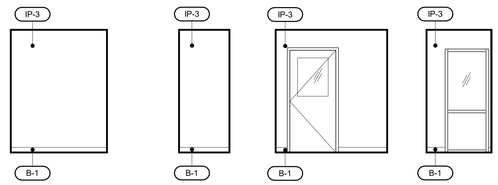
EAST

SOUTH

WEST



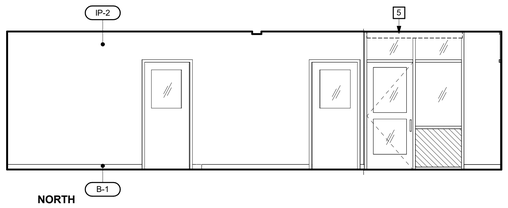
NORTH EAST SOUTH WEST



NORTH EAST SOUTH WEST

2 STORAGE - C7 - INTERIOR ELEVATIONS

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



NORTH

3 (E)ELECTRICAL - C9 - INTERIOR ELEVATIONS

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

EAST

SOUTH

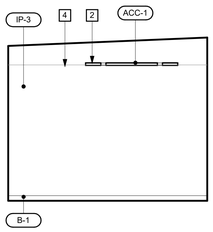
4 STORAGE - C24 - INTERIOR ELEVATIONS

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

WEST

5 WORK ROOM - C8 - INTERIOR ELEVATIONS

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



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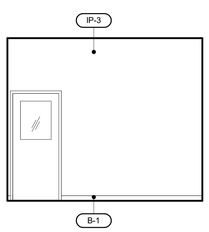

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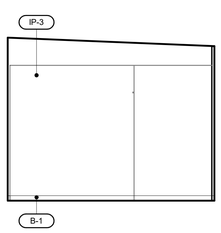

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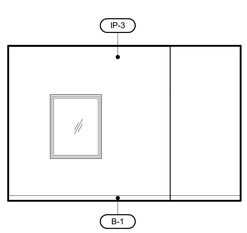
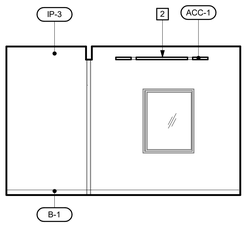


WEST

6 SPEECH 1 - C11 - INTERIOR ELEVATIONS

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



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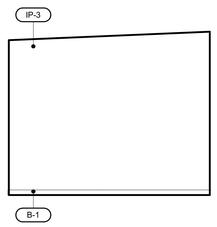

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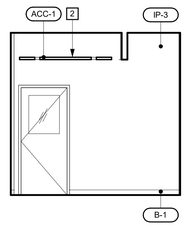

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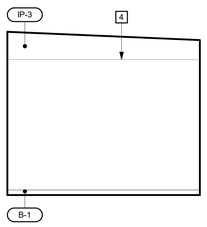

WEST

7 SPEECH 2 - C12 - NORTH

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

GENERAL SHEET NOTES

A FOR INTERIOR FINISHES NOT SHOWN ON ELEVATIONS REFER TO INTERIOR FINISH SCHEDULE.

B CABINET ELEVATIONS AS SHOWN IN THE INTERIOR ELEVATIONS ARE FOR REFERENCE ONLY. ACTUAL CABINET DESIGN CRITERIA AND SIZES ARE DESIGNATED IN THE CASEWORK SCHEDULE USING THE WOODWORK INSTITUTES' "CABINET DESIGN SERIES (CDS)" NUMBERING SYSTEM, WHERE INDIVIDUAL CASEWORK DESIGN REQUIREMENTS DO NOT FIT WITHIN THE CDS NUMBERING SYSTEM CABINETS ARE DETAILED SEPARATELY AS REFERENCED IN THE CASEWORK SCHEDULE.

C ALL EXPOSED CONDUITS AND PIPES SHALL BE PAINTED U.O.N.

D ALL EXPOSED STRUCTURE AND CEILING BE PAINTED U.O.N.

INTERIOR ELEVATION KEYNOTES

1 (E) TRANSFORMER.
2 ACOUSTICAL CEILING CLOUD, SEE DETAIL 17/A9.03.
3 SEMI-RECESSED FIRE EXTINGUISHER CABINET, SEE DETAIL 7/A9.06
4 (E) GLULAM BEAM.
5 MANUALLY OPERATED SHADES WITH SINGLE ROLLERS.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119816 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 02/25/2022

aedis architects
www.aedisarchitects.com
387 S. 1st Street, Suite 300
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tel: (408)-300-5160
fax: (408)-300-5121

PROJECT

LYDIKSEN ELEMENTARY SCHOOL MODERNIZATION

PLEASANTON UNIFIED SCHOOL DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT
C-31152
STATE OF CALIFORNIA

STATE
DSA FILE NUMBER 1-32
APPL # 01-119816

REVISIONS

No.	Description	Date

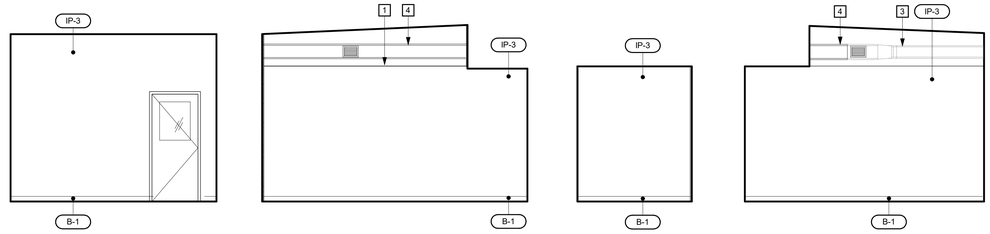
MILESTONES

SD	06/28/2021
DD	08/23/2021
50% CD	09/20/2021
90% CD	10/14/2021
DSA SUB	10/19/2021

SHEET

INTERIOR ELEVATIONS

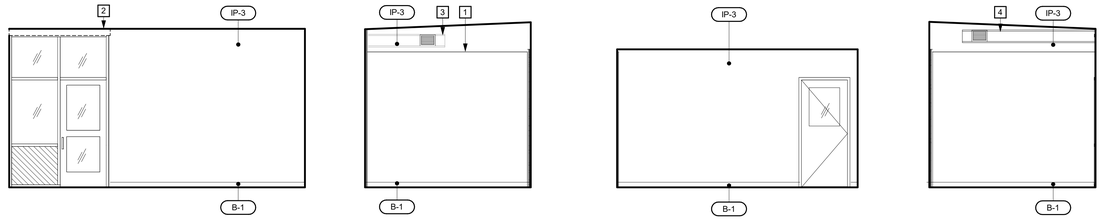
DATE 02/15/2022
JOB # 2020029.02
SHEET # A12.02



NORTH EAST SOUTH WEST

1 DEAF AND HEARING - C16 - INTERIOR ELEVATIONS

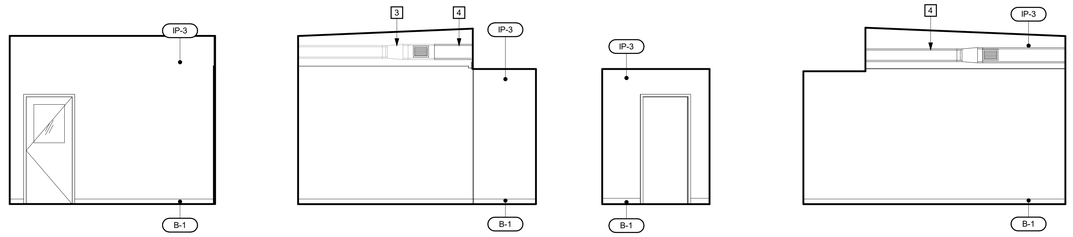
SCALE: 1/4" = 1'-0"



NORTH EAST SOUTH WEST

2 COUNSELOR - C17 - INTERIOR ELEVATIONS

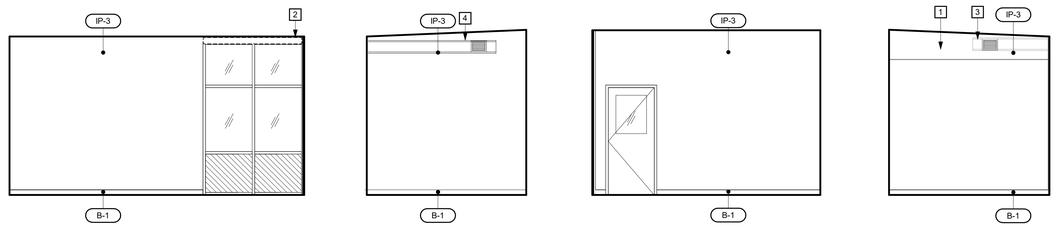
SCALE: 1/4" = 1'-0"



NORTH EAST SOUTH WEST

3 UNASSIGNED - C18 - INTERIOR ELEVATIONS

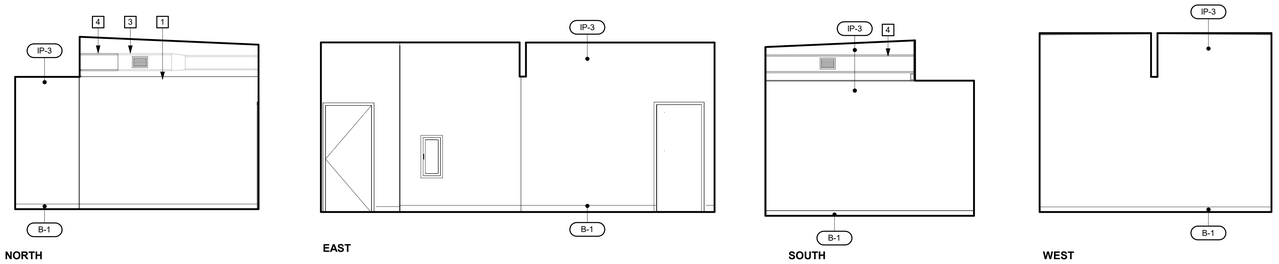
SCALE: 1/4" = 1'-0"



NORTH EAST SOUTH WEST

4 OCC. THERAPY - C19 - INTERIOR ELEVATIONS

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



NORTH EAST SOUTH WEST

5 PE STORAGE - C20 - INTERIOR ELEVATIONS

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

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C ALL EXPOSED CONDUITS AND PIPES SHALL BE PAINTED U.O.N.

D ALL EXPOSED STRUCTURE AND CEILING BE PAINTED U.O.N.

INTERIOR ELEVATION KEYNOTES

1 (E) GLULAM BEAM.
2 MANUALLY OPERATED SHADES WITH SINGLE ROLLERS.
3 (E) DUCT WORK, S.M.D.
4 DUCT WORK, S.M.D.

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PROJECT

LYDIKSEN ELEMENTARY SCHOOL MODERNIZATION

PLEASANTON UNIFIED SCHOOL DISTRICT

CONSULTANT

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LICENSED ARCHITECT — STATE OF CALIFORNIA — 29818 — 11-30-22

STATE
DSA FILE NUMBER 1-32
APPL # 01-119816

REVISIONS

No.	Description	Date
△		
△		

MILESTONES

SD	06/28/2021
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90% CD	10/14/2021
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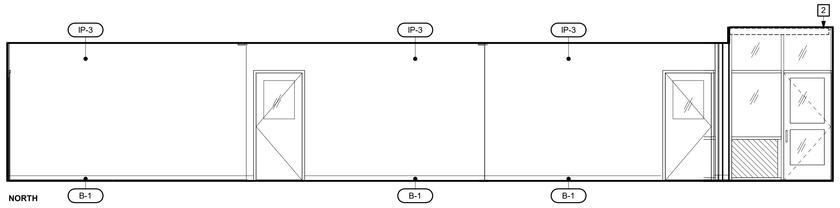
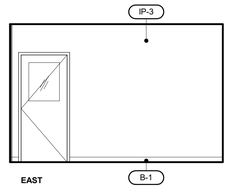
SHEET

INTERIOR ELEVATIONS

DATE 02/15/2022
JOB # 2020029.02
SHEET # A12.03



NORTH



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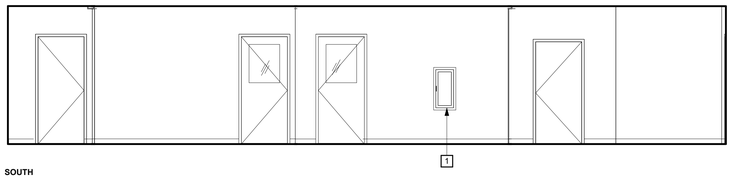
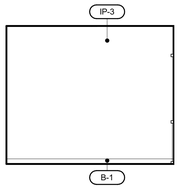
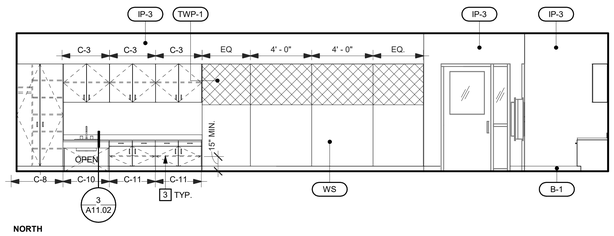


SOUTH



WEST

1 HALLWAY(C25)
SCALE: 1/4" = 1'-0"



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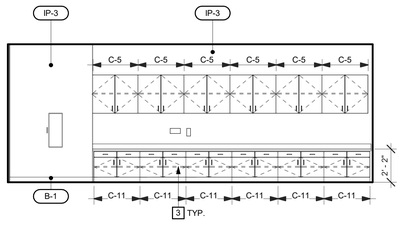

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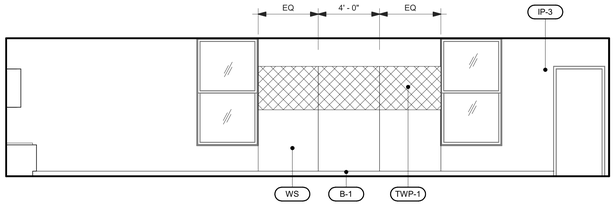

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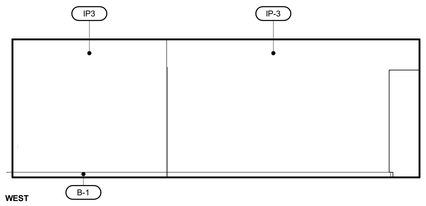
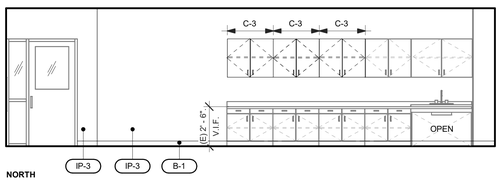


WEST

2 TK CLASSROOM (E114)
SCALE: 1/4" = 1'-0"



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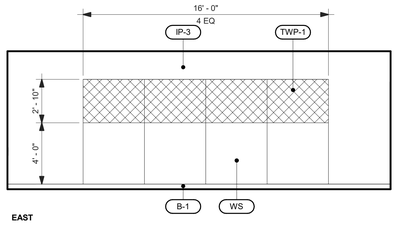

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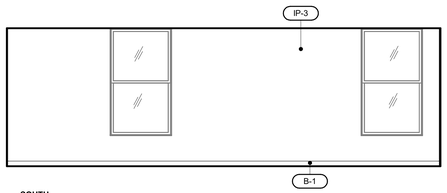
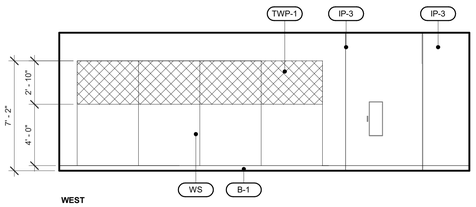


SOUTH



WEST

3 FLEX CLASSROOM (E115)
SCALE: 1/4" = 1'-0"

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D ALL EXPOSED STRUCTURE AND CEILING BE PAINTED U.O.N.

INTERIOR ELEVATION KEYNOTES

1 SEMI-RECESSED FIRE EXTINGUISHER CABINET, SEE DETAIL 7/A9.06
2 MANUALLY OPERATED SHADES WITH SINGLE ROLLERS.
3 PROVIDE FIXED SHELVE @ 15" MIN. A.F.F. TYP.

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PROJECT

LYDIKSEN ELEMENTARY SCHOOL MODERNIZATION

PLEASANTON UNIFIED SCHOOL DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT
JOSEPH A. AIELLO
No. C-31612
EXP. 11/30/22
STATE OF CALIFORNIA

STATE
DSA FILE NUMBER 1-32
APPL # 01-119816

REVISIONS

No.	Description	Date

MILESTONES

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50% CD	09/20/2021
90% CD	10/14/2021
DSA SUB	10/19/2021

SHEET

INTERIOR ELEVATIONS

DATE 02/15/2022
JOB # 2020029.02
SHEET # A12.04

GENERAL STRUCTURAL NOTES

GENERAL NOTES

1. THE INTENT OF THESE DRAWINGS IS TO SHOW ALL ITEMS NECESSARY TO COMPLETE THE STRUCTURE. FOR ITEMS, METHODS, AND/OR MATERIALS NOT SHOWN. THE MINIMUM REQUIREMENTS OF THE 2019 CBC SHALL GOVERN. ALL WORK AND CONSTRUCTION SHALL COMPLY WITH ALL OTHER APPLICABLE BUILDING CODES, SOIL REPORTS, REGULATIONS AND SAFETY REQUIREMENTS.
2. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. IF CERTAIN FEATURES ARE NOT FULLY SHOWN OR CALLED FOR ON THE DRAWINGS OR SPECIFICATIONS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE CALLED FOR OR SHOWN.
3. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO DESIGN AND PROVIDE ADEQUATE SHORING, TEMPORARY BRACING AND FORMWORK, ETC., AS REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY. DURING THE CONSTRUCTION OF THIS BUILDING SHOWING AND BRACING SHALL REMAIN IN PLACE UNTIL FLOORS, ROOF AND WALL SHEATHING HAVE BEEN ENTIRELY CONSTRUCTED. SHORING DRAWINGS AND CALCULATIONS SHALL BE SEALED BY REGISTERED ENGINEER AND SUBMITTED TO THE ARCHITECT AND OR ENGINEER FOR REVIEW. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT, ENGINEER OR CONSTRUCTION MANAGER SHALL NOT RELIEVE THE CONTRACTOR OF SUCH RESPONSIBILITY.
4. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS WITH THE ARCHITECTURAL, ELECTRICAL, MECHANICAL, AND PLUMBING DRAWINGS BEFORE PREPARING SHOP DRAWINGS, FABRICATION OR CONSTRUCTION. SEE ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS FOR SIZE AND LOCATIONS OF PIPES, SLEEVES, PITS, VENTS, DUCTS, ETC. AND DETAILS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
5. ALL DRAWINGS 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 ARCHITECT OR ENGINEER PRIOR TO 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 THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT OR ENGINEER.
6. SEE DRAWINGS OTHER THAN STRUCTURAL FOR: TYPES OF FLOOR FINISH AND THEIR LOCATION, FOR DEPRESSIONS IN FLOOR SLABS, FOR OPENINGS IN WALLS AND FLOORS REQUIRED BY ARCHITECTURAL AND MECHANICAL FEATURES, FOR ROADWAY PAVING, WALKS, RAMPS, STAIRS, CURBS, ETC.
7. CONSTRUCTION MATERIAL SHALL BE SPREAD OUT IF PLACED ON FRAMED ROOF OR FLOOR. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH.
8. HOLES AND OPENINGS THROUGH WALLS AND FLOORS FOR DUCTS, PIPING AND VENTILATION SHALL BE COORDINATED BY THE CONTRACTOR WHO SHALL VERIFY SIZES AND LOCATION OF SUCH HOLES OR OPENINGS WITH THE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS AND THEIR SUB-CONTRACTORS.
9. NO PIPES OR DUCTS SHALL BE EMBEDDED IN WALLS UNLESS SPECIFICALLY DETAILED OR APPROVED BY THE ENGINEER.
10. OMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE DRAWINGS, NOTES, AND DETAILS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER AND RESOLVED BEFORE PROCEEDING WITH THE WORK.
11. DO NOT USE SCALED DIMENSIONS; USE WRITTEN DIMENSIONS. WHERE NO DIMENSION IS PROVIDED, CONSULT THE ARCHITECT AND ENGINEER FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.

EXISTING CONSTRUCTION/ CONDITIONS:

1. SHORING: THE CONTRACTOR SHALL PROVIDE SHORING WHEREVER NECESSARY TO ALLOW INSTALLATION OF THE WORK. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE DESIGN, INSTALLATION AND MAINTENANCE OF ALL SHORING AND TEMPORARY WORK REQUIRED THROUGHOUT THE PROGRESS OF THE WORK.
2. EXISTING CONSTRUCTION: EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS WAS OBTAINED FROM LIMITED VISUAL OBSERVATIONS. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND SHALL NOTIFY THE STRUCTURAL ENGINEER OF RECORD OF ALL EXCEPTIONS AND RECEIVE DIRECTION PRIOR TO PROCEEDING WITH THE WORK IN QUESTION.
3. DEMOLITION: THE REMOVAL, CUTTING, DRILLING. ETC. OF EXISTING WORK SHALL BE PERFORMED WITH GREAT CARE AND WITH APPROPRIATE TOOLS IN ORDER TO NOT JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE BUILDING. SEE ARCHITECTURAL DRAWINGS FOR REQUIRED DEMOLITION.

DESIGN BASIS

APPLICABLE CODE:	2019 CALIFORNIA BUILDING CODE (CBC) WITH A CHAPTERS ADOPTED BY DSA, WITH ADOPTION OF THE INTERNATIONAL BUILDING CODE (IBC), 2018 EDITION.		
VERTICAL LIVE LOAD:	ROOF		VARIES, 20 psf MAX.
	FLOOR		40 psf
RAIN INTENSITY:	2019 CBC W/ ASCE 07-16 (CHAPTER 8):		
	RAIN INTENSITY: NOAA ATLAS 14 POINT PRECIPITATION FREQUENCY ESTIMATES: CA		i = 1.13 in/hr
WIND DESIGN:	ASCE 07-16		
	BASIC WIND SPEED		99 mph
	EXPOSURE		C
	RISK CATEGORY		III
	HILL SHAPE		NO TOPOGRAPHIC OBSTRUCTIONS
	MEAN ROOF HEIGHT (SHADE STRUCTURE)		18 ft
	COMPONENTS AND CLADDING DESIGN PER CHAPTER 30.7		
SEISMIC DESIGN:	2019 CBC W/ ASCE 07-16 REQUIREMENTS		
	SEISMIC DESIGN CATEGORY:	(SECTION 12.5)	D
	SOIL SITE CLASS	(ASSUMED)	D
	RISK CATEGORY	(TABLE 1.5-1)	III
	LIGHT FRAMED WOOD SYSTEM:		
	RESPONSE MODIFICATION COEFFICIENT	(TABLE 12.2-1)	R = 6.5
	SYSTEM OVERSTRENGTH FACTOR	(TABLE 12.2-1)	Ω_o = 2.5
	DEFLECTION AMPLIFICATION FACTOR	(TABLE 12.2-1)	Cd = 4
	IMPORTANCE FACTOR	(TABLE 1.5-2)	Ie = 1.25
	SPECIAL CANTILEVER COLUMN SYSTEM:		
	RESPONSE MODIFICATION COEFFICIENT	(TABLE 12.2-1)	R = 2.5
	SYSTEM OVERSTRENGTH FACTOR	(TABLE 12.2-1)	Ω_o = 1.25
	DEFLECTION AMPLIFICATION FACTOR	(TABLE 12.2-1)	Cd = 2.5
	IMPORTANCE FACTOR	(TABLE 1.5-2)	Ie = 1.25
	MAPPED SPECTRAL RESPONSE ACCELERATION:		
	MAPPED MCE SPECTRA RESPONSE	(SECTION 11.4.1)	Ss = 1.994g
	MAPPED MCE SPECTRA RESPONSE (ONE SECOND)	(SECTION 11.4.1)	S1 = 0.734g
	SPECTRAL RESPONSE COEFFICIENTS:		
	DESIGN SPECTRAL ACCELERATION	(SECTION 11.4.3)	Sds = 1.595g
	DESIGN SPECTRAL ACCELERATION (ONE SECOND)	(SECTION 11.4.4)	Sd1 = 0.734g
	SOIL FACTOR COEFFICIENTS:		
	SITE COEFFICIENT, Fa	(SECTION 11.4-1)	Fa = 1.2
	SITE COEFFICIENT, Fv	(SECTION 11.4-2)	Fv = 1.5
	SEISMIC COEFFICIENT FOR R=6.5:	(ASD DESIGN)	v = 0.215 W
	SEISMIC COEFFICIENT FOR R=2.5:	(ASD DESIGN)	v = 0.558 W

GEOTECHNICAL CRITERIA:

BASED ON THE PROVISIONS SET FORTH IN THE GEOTECHNICAL REPORT PREPARED BY:	CONSTRUCTION TESTING SERVICES
REPORT #	CTS JOB 13728
DATED	09/25/2018
ALLOWABLE SOIL BEARING PRESSURE:	
DEAD + LIVE	3000 psf
DEAD + LIVE + WIND OR SEISMIC	4000 psf
COEFFICIENT OF FRICTION:	
ON HARD NATIVE MATERIALS	0.3
PASSIVE PRESSURE:	250 pcf
ALL ENGINEERED FILL SHALL HAVE A MINIMUM RELATIVE COMPACTION PER PROJECT GEOTECHNICAL REPORT	

WOOD

1. ALL STRUCTURAL WOOD WORK SHALL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF THE 2019 CBC.
2. ALL STRUCTURAL LUMBER SHALL BE DOUGLAS FIR-LARCH OF THE GRADE INDICATED BELOW OR BETTER, UNLESS OTHERWISE NOTED ON PLANS. ALL WOOD WILL HAVE A MAXIMUM MOISTURE CONTENT OF 19% AT TIME OF USE AND SURFACE DRY-GREEN.

JOISTS AND RAFTERS	NO.1
POSTS, BEAMS AND HEADERS	NO.1
STUDS, BLOCKINGS, LIGHT FRAMING AND MISC.	NO.2
WALL PLATES	NO.2
WOOD SILL (P.T.)	NO.2
PRESSURE TREATED (P.T.) JOIST, BEAMS AND POSTS	NO.2

3. GLUE-LAMINATED BEAMS (GLB) SHALL BE IN ACCORDANCE WITH ANSI/AITC A190.1 AND ASTM D3737. CONTINUOUS IN-PLANT INSPECTION PER 2019 CBC REQUIREMENTS PERFORMED BY A CERTIFIED INSPECTOR IS REQUIRED FOR ALL NEW GLB LARGER THAN 5 1/8x18 OR FOR SPANS GREATER THAN 32 FEET. ALL GLB SHALL BE ARCHITECTURAL GRADE TYPICAL, CAMBER TO RADIUS OF 2,000 FEET, AND FABRICATED WITH EXTERIOR GLUE UNLESS OTHERWISE NOTED ON PLAN.

SIMPLE SPAN BEAM	24FV4
CANTILEVER AND CONTINUOUS BEAM	24FV8

4. ENGINEERED LUMBERS SHALL BE MANUFACTURED BY I LEVEL WEYERHAEUSER OR BOISE CASCADE EQUIVALENT APPROVED ICC MANUFACTURED PRODUCT.

WEYERHAEUSER:	
LVL MICRO-LAMS	2.2E
LSL TIMBER STRAND	1.55E
PSL PARALLEL STRAND LUMBER (BEAMS)	2.2E
PSL PARALLEL STRAND LUMBER (POSTS)	1.8E

5. PLYWOOD SHEATHING OR OSB SHEATHING:

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

6. PRESSURE TREATED LUMBER:
   A. PRESSURE TREATED D.F. SHALL BE AWPA STAMPED. AMMONIACAL COPPER QUAT (ACQ), COPPER BORON AZOLE (CBA), OR BORATE TREATED AWPA STANDARD U1, MINIMUM 0.40 INCH. PENETRATION INCISED.
   B. ALL PRESERVATIVE TREATED LUMBER SHALL BE FIELD-APPLIED WITH PRESERVATIVE WHERE CUT AND DRILLED ON SITE WITH COPPER NAPHTHENATE (2% COPPER AS METAL).
   C. USE HOT DIPPED GALVANIZED HARDWARE PER ASTM A153 OR STAINLESS STEEL OR SILICON BRONZ OR COPPER MATERIAL, IE. BOLTS, NAIL, ETC. FOR ALL ATTACHMENT TO ACQ OR CBA TREATED MEMBERS. (CBC 2304.10.5.1)
7. ALL NAILS SHALL BE COMMON STEEL WIRE NAILS SIZED AND SPACED AS SPECIFIED ON THE DRAWINGS, SCHEDULES AND IN TABLE 2304.10.1 OF THE CALIFORNIA BUILDING CODE. FASTENERS FOR P.T. WOOD SHALL BE HOT-DIPPED GALVANIZED. (CBC 2304.10.5.1)
8. ROUGH HARDWARE WHERE EXPOSED SHALL BE GALVANIZED AND CONFORM TO THE FOLLOWING:

BOLTS	ASTM 307
PLATE HARDWARE	SIMPSON OR EQUIVALENT
HANGERS	SIMPSON OR EQUIVALENT
OTHER ACCESSORIES	SIMPSON OR EQUIVALENT

   FOR SIZE AND SPACING SEE PLANS.
9. PENETRATIONS IN WOOD SILLS OR PLATES OF BEARING OR SHEAR WALLS SHALL BE PLACED IN THE CENTER AND SHALL BE NO GREATER IN DIAMETER THAN 1/3 THE WIDTH OF THE LUMBER. HOLES LARGER THAN THOSE NOTED ABOVE MAY BE BORED "ONLY" IF PLATES ARE CONSIDERED CUT AND ADEQUATE REINFORCEMENT IS PROVIDED.
10. CUTTING, BORING, OR NOTCHING OF GIRDERS, BEAMS, JOISTS AND OTHER STRUCTURAL ELEMENTS SHALL NOT BE PERMITTED WITHOUT THE APPROVAL OF THE ENGINEER UNLESS SPECIFICALLY DETAILED ON THESE DOCUMENTS.
11. HOLES FOR BOLTS IN WOOD SHALL BE DRILLED A MAXIMUM OF 1/16" LARGER THAN BOLT DIAMETER. METAL WASHERS SHALL BE PROVIDED FOR ALL HEAD AND NUTS OF BOLTS AND LAG SCREWS THAT BEAR ON WOOD. CUTS AND HOLES IN P.T. LUMBER SHALL BE SEALED AND TREATED.
12. ALL BOLTS AND SCREWS SHALL BE TIGHTENED AT THE TIME OF ERECTION AND RETIGHTENED BEFORE COMPLETION OF WORK OR INSTALLATIONS THAT WOULD MAKE THE BOLTS INACCESSIBLE.
13. PROVIDE 2x SOLID BLOCKING BETWEEN JOISTS OR RAFTERS OVER ALL SUPPORTS.
14. ALL WOOD MEMBERS IN CONTACT WITH CONCRETE, GROUT OR MASONRY SHALL BE PRESSURE-TREATED.
15. LIGHT GAUGE FRAMING HARDWARE AND HOLDOWN HARDWARE SHALL BE SIMPSON STRONG-TIE IN ACCORDANCE WITH CATALOGUE C-C-2019. SIMILAR PRODUCTS WITH ICC VALUES EXCEEDING THOSE PUBLISHED FOR SIMPSON STRONG-TIE (ESR-2549, ESR-2551, ESR-2552, AND ESR-2553) MAY BE CONSIDERED AS SUBSTITUTION. ALL SUBSTITUTIONS SHALL SHALL BE SUBMITTED TO THE ENGINEER ON RECORD FOR APPROVAL 10 WORKING DAY PRIOR TO INSTALLATION.
16. PROVIDE LATERAL SUPPORT FOR BEAMS, JOISTS AND RAFTERS AT ENDS AND POINTS OF BEARING.
17. LAG SCREWS PER ANSI/ ASME STANDARD B18.2.1 PROVIDE LEAD HOLE SAME DIAMETER AND DEPTH AS SHANK AND THEN DRILL HOLE 60% - 70% OF SHANK DIAMETER FOR THREADED PORTIONS.

CROSS LAMINATED TIMBER PANELS

1. CROSS LAMINATED TIMBER PANELS (CLT) SHALL BE MANUFACTURERED BY STRUCTURLAM PRODUCTS LTD. USE DOUGLAS FIR SPECIES. SEE SPECIFICATIONS 06 15 43 FOR ADDITIONAL REQUIREMENTS.
2. CLT TO BE PER ICC REPORT ESR-3631.
3. SCREWS TO BE SWG ASSY SCREWS OR EQUIVALENT. SEE ICC REPORT ESR-3179.
4. INSTALL PER MANUFACTURER'S RECOMMENDATION.

CONCRETE:

1. CONCRETE SHALL BE SUPPLIED AND PLACED IN ACCORDANCE WITH ACI 318-14 AND CBC 2019.
2. CONCRETE SHALL BE AS FOLLOWS:

CONCRETE USE	STRENGTH AT 28 DAYS U.O.N.	W/C RATIO	AGGREGATE SIZE	WEIGHT	SHRINKAGE
SLAB ON GRADE	3000 psi	0.45 MAX.	3/4" (LS)	145pcf	.045%
FOUNDATION	4000 psi	0.50 MAX.	3/4"	145pcf	-

(LS) CRUSHED LOW SHRINKAGE ROCK

3. STRENGTH: COMPRESSIVE STRENGTH IN PSI WHEN TESTED IN ACCORDANCE WITH ASTM C39.
4. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE II.
5. AGGREGATE FOR STONE CONCRETE SHALL CONFORM TO ASTM C-33. FOR LOW SHRINKAGE AGGREGATE; USE LIMESTONE OR GRANITE. AGGREGATE FOR LIGHTWEIGHT CONCRETE SHALL CONFORM TO ASTM C-330.
6. FLY ASH: ASTM C 618, CLASS F OR CLASS C. MINIMUM RECOMMENDED FLY ASH CONTENT BY MASS OF CEMENTITIOUS MATERIAL IS 20%. MAXIMUM RECOMMENDATION IS 25%.
7. ADMIXTURES: MIX SHALL CONTAIN POLYMER BASED, WATER REDUCING ADMIXTURE. THE FOLLOWING TYPES OF ADMIXTURES ARE ALLOWED AS PLASTICIZERS AND/ OR SET ACCELERATORS TO IMPROVE WORKABILITY.
   A. ASTM C494, TYPES A, C, E, G. HIGH RANGE WATER REDUCERS SHALL ALSO MEET REQUIREMENTS OF ASTM C 1017.
   B. THE INITIAL SLUMP OF THE CONCRETE BEFORE INTRODUCING ADMIXTURES SHOULD BE MINIMUM 2" INCHES
8. SHRINKAGE - CONTRACTOR TO PROVIDE CONCRETE MIX HISTORY DATA OR PROVIDE TESTING REPORT
9. MINIMUM REINF. COVER FOR CAST-IN-PLACE CONCRETE:

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
CONCRETE FORMED BELOW GRADE OR EXPOSED TO WEATHER:	
NO.6 AND GREATER	2"
NO.5 AND SMALLER	1 1/2"
CONCRETE NOT EXPOSED TO WEATHER NOR IN CONTACT WITH GROUND	
SLABS, WALLS, AND JOISTS: NO.11 AND SMALLER	1"
BEAMS AND COLUMNS: PRIMARY REINF., TIES, STIRRUPS, SPIRALS	1 1/2"

10. PLACEMENT
    A. ALL REINFORCING BARS, ANCHOR BOLTS, AND ALL OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
    B. CHAMFER ALL CORNERS OF CONCRETE TO PREVENT DAMAGE.
    C. CONSTRUCTION TOLERANCE SHALL COMPLY TO ACI 117.
    D. CONCRETE SHALL BE PLACED IN A CONTINUOUS OPERATION BETWEEN PREDETERMINED CONSTRUCTION JOINTS.
    E. USE VIBRATORS TO CONSOLIDATE CONCRETE. DO NOT USE VIBRATORS TO MOVE CONCRETE.
    F. CONCRETE SHALL BE CONTINUOUSLY CURED FOR 7 DAYS AFTER PLACEMENT IN ANY APPROVED MANNER. FOOTINGS ARE EXEMPTED FROM THIS REQUIREMENT.
    G. PATCHING OF CONCRETE: ALL INSERT HOLES AND OTHER IMPERFECTIONS ON THE SURFACES OF THE CONCRETE SHALL BE FILLED WITH GROUT, BRUSHED AND SACKED TO A UNIFORM FINISH.
11. CONSTRUCTION JOINTS:
    A. CONSTRUCTION JOINTS SHOWN MAY BE PROVIDED AT CONTRACTORS OPTION. ANY PROPOSED CONSTRUCTION JOINTS NOT SHOWN MUST BE SUBMITTED TO THE DESIGN PROFESSIONAL OF RECORD FOR APPROVAL.
    B. ROUGHENED CONSTRUCTION JOINTS (R.C.J.): WHERE NOTED ON DRAWINGS R.C.J. ROUGHEN JOINT TO MINIMUM 1/4 INCH AMPLITUDE:
12. INTERIOR SLAB ON GRADE:
    A. DO NOT ALLOW WATER TO COLLECT ON OR AROUND BUILDING PAD.
    B. INITIAL CURING: INITIAL CURING SHALL IMMEDIATELY FOLLOW THE FINISHING OPERATION. CONCRETE SHALL BE KEPT CONTINUOUSLY MOIST AT LEAST OVERNIGHT.
    C. FINAL CURING: IMMEDIATELY FOLLOWING THE INITIAL CURING AND BEFORE THE CONCRETE HAS DRIED. SLABS TO RECEIVE MOISTURE SENSITIVE FLOORING MATERIALS TO BE CONTINUOUSLY CURED FOR 7 DAYS BY WET COVERING OR MOISTURE RETAINING COVERING. LIQUID MEMBRANE CURING COMPOUNDS SHALL NOT BE PERMITTED.
    D. INTERIOR SLABS SHALL RECEIVE A LIGHT BROOM FINISH U.O.N., S.A.D. TOLERANCE SHALL BE 1/8" IN 10'-0". EDGES SHALL BE SMOOTH TROWELED.
13. ALL CONCRETE TO BE REINFORCED UNLESS SPECIFICALLY MARKED "NOT REINFORCED"
14. VAPOR BARRIER:
    A. 15 MIL ASTM E-1745 CLASS A, TYP. U.O.N. IN DET. 8/S5.01.

REINFORCING STEEL

1. REINFORCING STEEL SHALL BE PLACED IN ACCORDANCE WITH ACI 315 AND ACI 318.
2. REINFORCING STEEL SHALL BE AS FOLLOWS:

BAR TYPE	GRADE
#4 BARS AND SMALLER	ASTM A615 GR. 60
#5 BARS AND LARGER	ASTM A615 GR. 60
WELDED BARS	ASTM A706
TIE WIRES AND SPIRALS	ASTM A82
WELDED WIRE FABRIC	ASTM A185
MECHANICAL BAR SPLICE	BAR LOCK OR APPROVED EQUAL

3. DO NOT FIELD BEND OR STRAIGHTEN IN ANY MANNER THAT WILL DAMAGE REINFORCING.
4. PROVIDE SPLICES IN REINFORCING ONLY WHERE SHOWN ON DRAWINGS OR APPROVED IN WRITING BY PROFESSIONAL OF RECORD.
5. WELDING TO CONFORM TO AWS D1.4.

STEEL

1. STRUCTURAL STEEL TO BE SUPPLIED DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH A.I.S.C. SPECIFICATIONS.
2. U.O.N. STEEL SHALL BE AS FOLLOWS:

SHAPE	GRADE
WIDE FLANGE SECTION (WF)	ASTM A992 GR. 50
HOLLOW STRUCTURAL SECTION (HSS)	ASTM A500B GR. 46
OTHER SHAPES AND PLATES	ASTM A36, ASTM A572 GR. 50 WHERE SPECIFIED
BOLTS	ASTM A307
HIGH STRENGTH BOLTS	ASTM A325, U.O.N.
THREADED RODS	ASTM A36, U.O.N.
ANCHOR RODS	F1554 GR. 36 TYP., U.O.N.
WELDING ELECTRODES	E-70xx, U.O.N.
WELDED STUDS	FLUX FILLED HEADED STUDS ASTM A108 BY NELSON OR EQUAL.

3. WELDING TO CONFORM TO AWS AND TO BE PERFORMED BY CERTIFIED WELDERS.
4. BUTT WELDS ARE TO BE COMPLETE PENETRATION U.O.N. ALL FILLET WELDS SHOWN ARE MINIMUM REQUIRED BY STRESS. INCREASE WELDS TO A.I.S.C. MINIMUM SIZES BASED ON THICKNESS OF MATERIAL JOINED U.O.N.
5. STEEL BEAMS ARE EQUALLY SPACED BETWEEN DIMENSION POINTS OR GRID LINES, U.O.N.
6. STEEL NOT RECEIVING FIRE PROOFING SHALL BE SHOP PRIMED.
7. SHADE STRUCTURE STEEL EXPOSED TO WEATHER SHALL BE HOT DIP ZINC GALVANIZED U.O.N.
8. NON SHRINK GROUT: 7500 psi COMPRESSIVE STRENGTH, NON METALLIC CONFORMING TO ASTM 1107. MASTERFLOW 928 OR EQUAL.
9. THE STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE, AND DO NOT INDICATE THE MEANS AND METHODS OF CONSTRUCTION NOR THE ERECTION SEQUENCING. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONSTRUCT THE STRUCTURE AND PROVIDE ADEQUATE SHORING AND TEMPORARY BRACING AS REQUIRED.

POST-INSTALLED ANCHORS (CONCRETE INSTALLATION ONLY)

1. EPOXY ADHESIVE SHALL BE SIMPSON "SET-XP" ADHESIVE ANCHOR (ESR-2508) OR EQUAL PRODUCT. ALTERNATE PRODUCTS MUST BE SUBMITTED TO E.O.R. FOR SUBSTITUTION PRIOR TO INSTALLATION PER SPECIFICATIONS.
2. EXPANSION ANCHORS SHALL BE SIMPSON STRONG BOLT-2 (ESR-3037) OR EQUAL PRODUCT.
3. INSTALLATION: INSTALL THE POST-INSTALLED ANCHORS IN ACCORDANCE WITH THE REQUIREMENTS GIVEN IN MANUFACTURER'S RECOMMENDATIONS FOR THE SPECIFIC ANCHOR.
4. SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 1701A OF THE CBC FOR DSA PROJECTS.
5. NOTIFY ARCHITECT IMMEDIATELY IF ELEMENTS WITH EXISTING STRUCTURE PREVENT DRILLING IN THE LOCATIONS SHOWN ON THE DRAWINGS.
6. EPOXIED DOWELS DO NOT SUBSTITUTE FOR HOOKED BARS. CONTRACTOR TO NOTIFY ENGINEER OF EPOXIED DOWEL LOCATIONS.
7. WHEN POST-INSTALLED ANCHORS ARE USED FOR SILL PLATE BOLTING, 10% OF THE ANCHORS SHALL BE TENSION TESTED. FOR ALL OTHER STRUCTURAL APPLICATIONS, ALL SUCH EPOXY ANCHOR SHALL BE TENSION TESTED. WHEN ANCHORS ARE USED FOR NON-STRUCTURAL APPLICATIONS, 50% OF ANCHORS SHALL BE TENSION TESTED. IF ANY ANCHOR FAILS TESTING, TEST ALL ANCHORS OF THE SAME TYPE NOT PREVIOUSLY TESTED UNTIL 20 CONSECUTIVE ANCHORS PASS. (PER IR-19.1 FOR DSA PROJECTS ONLY)

STRUCTURAL SHEET INDEX

SCOPE OF WORK

- IN BUILDING C, ALTERATIONS TO SHEAR WALLS:
  - RETROFIT INTERIOR SHEAR WALLS (LINES 1 AND A) TO CURRENT CODE DESIGN PROVISIONS TO ALLOW FOR ALTERATIONS OF (E) INTERIOR SHEAR WALLS. RETROFIT INCLUDES CONSTRUCTION OF NEW SHEAR WALLS AND UPGRADES TO SHEAR WALL NAILING AND HOLDOWNS ON (E) SHEAR WALLS.
  - ALTER SHEAR WALL IN NEW PE STORAGE ROOM BY CREATING WINDOW OPENING IN EXTERIOR WALL.
- IN BUILDING C, VOLUNTARY SEISMIC RETROFIT TO INSTALL PLYWOOD SHEATHING ON FACE OF EXTERIOR WALL STUDS. PLYWOOD SHEATHING IS DESIGNED TO CURRENT CODE.
- IN BUILDING C, NEW EXTERIOR WALLS AT NEW SPEECH 1 ROOM.
- IN BUILDING C, NEW OPENINGS IN ROOF FOR TUBULAR SKYLIGHTS AND ROOF HATCH.
- IN BUILDING C, STRUCTURAL SUPPORT FOR NEW ROOF TOP MECHANICAL UNITS.
- NEW SHADE STRUCTURE AT LUNCH AREA.

STRUCTURAL OBSERVATION

OBSERVATION BY ELEMENT STRUCTURAL ENGINEERS, INC. OR THEIR DESIGNATED REPRESENTATIVE IS REQUIRED AT THE PROJECT MILESTONES GIVEN BELOW. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ELEMENT STRUCTURAL ENGINEERS, INC. AT LEAST 4 DAYS IN ADVANCE OF COMPLETING MILESTONES THAT REQUIRE OBSERVATION AND ALLOW SUITABLE TIME TO MAKE ANY REQUIRED CORRECTIONS TO THE WORK PRIOR TO ENGAGING IN THE NEXT PHASE OF THE PROJECT.

CONCRETE: FOUNDATION AND WALLS AND MEMBERS
PRIOR TO PLACING CONCRETE IT IS REQUIRED THAT ELEMENT STRUCTURAL ENGINEERS, INC. OBSERVE THE FOLLOWING:
FOOTING
FOOTING REINFORCEMENT AND EMBEDMENT
STEEL: FRAMING
PRIOR TO WOOD FRAMING BEING INSTALLED IT IS REQUIRED THAT ELEMENT STRUCTURAL ENGINEERS, INC. OBSERVE THE FOLLOWING:
WOOD: ROOF
PRIOR TO ROOF FINISHES BEING INSTALLED IT IS REQUIRED THAT ELEMENT STRUCTURAL ENGINEERS, INC. OBSERVE THE FOLLOWING:
ROOF HORIZONTAL STRAPS
ROOF DIAPHRAGM EDGE NAILING
WOOD: SHEAR WALLS AND DIAPHRAGM
PRIOR TO WALL AND FLOOR FINISHES BEING INSTALLED IT IS REQUIRED THAT ELEMENT STRUCTURAL ENGINEERS, INC. OBSERVE THE FOLLOWING:
SHEAR WALL NAILING
SHEAR WALL FRAMING HARDWARE
SHEAR WALL HOLD-DOWNS

ABBREVIATIONS

&	AND	J.H.	JOIST HANGER
@	AT	K.D.D.F.	KILN DRIED DOUGLAS FIR
A.B.	ANCHOR BOLT	LONG.	LONGITUDINAL
A.O.R.	ARCHITECT OF RECORD	L.V.F.	LOW-VELOCITY FASTENER
ARCH.	ARCHITECTURAL	MAX.	MAXIMUM
B.F.E.	BASE FLOOD ELEVATION	M.B.	MACHINE BOLTS (UNFINISHED)
BLDG.	BUILDING	MIN.	MINIMUM
BLK'G.	BLOCKING	(N)	NEW
BM.	BEAM	N/A	NOT APPLICABLE
B.N.	BOUNDARY NAIL	N.S.	NEAR SIDE
B.O.C.	BOTTOM OF CONCRETE	NTS.	NOT TO SCALE
BOT.	BOTTOM	O/	OVER
BTW.	BETWEEN	O.C.	ON CENTER
℄	CENTER LINE	OPP.	OPPOSITE
C.B.	CEILING BEAM	ℙ	PLATE
C.G.S.	CENTER OF GRAVITY OF POST-TENSIONING STRAND	P.A.D.	POWER ACTUATED DEVICE
C.J.	CONTROL JOINT	PLY.	PLYWOOD
CLR.	CLEAR COVER	P.T.	PRESSURE TREATED
CLT.	CROSS LAMINATED TIMBER	P/T	POST TENSIONING
COL.	COLUMN	R.C.J.	ROUGHENED CONSTRUCTION JOINT
CONC.	CONCRETE	REINF.	REINFORCEMENT
CONT.	CONTINUOUS	REQ'D.	REQUIRED
DBL.	DOUBLE	RTU	ROOF TOP UNIT
DBO.	DRAWING BY OTHER	S.A.D.	SEE ARCHITECTURAL DRAWINGS
DET.	DETAIL	S.C.D.	SEE CIVIL DRAWINGS
D.C.	DEMAND CRITICAL	SCHED.	SCHEDULE
D.F.	DOUGLAS FIR	S.D.B.O.	SEE DRAWINGS BY OTHERS
DWG.	DRAWING	SIM.	SIMILAR
(E)	EXISTING	S.J.	SEISMIC JOINT
EA.	EACH	S.L.R.S.	SEISMIC LOAD RESISTING SYSYEM
EL.	ELEVATION	S.L.D.	SEE LANDSCAPE DRAWINGS
E.N.	EDGE NAIL	S.M.D.	SEE MECHANICAL DRAWINGS
E.O.R.	ENGINEER OF RECORD	SPEC.	SPECIFICATION
E.Q.	EQUAL	SQ.	SQUARE
E.S.	EDGE SCREW	SYM.	SYMMETRICAL
E.W.	EACH WAY	T&B	TOP AND BOTTOM
EXT.	EXTERIOR	T&G	TONGUE AND GROOVE
FDN.	FOUNDATION	T.D.	TIE DOWN
FIN.	FINISH	T.O.C.	TOP OF CONCRETE
FL.	FLOOR	T.O.F.	TOP OF FINISH
F.O.C.	FACE OF CONCRETE	T.O.S.	TOP OF STEEL FRAMING
F.O.S.	FACE OF STUD	T.P.	TOP OF PLATE
F.S.	FAR SIDE	TRAN.	TRANSVERSE
FTG.	FOOTING	TYP.	TYPICAL
G.C.	GENERAL CONTRACTOR	U.O.N.	UNLESS OTHERWISE NOTED
G.C.T.	GIRDER COLLECTOR TRUSS	VERT.	VERTICAL
G.E.C.T.	GABLE END COLLECTOR TRUSS	V.I.F.	VERIFY IN FIELD
G.E.T.	GABLE END TRUSS	W/	WITH
G.T.	GIRDER TRUSS	W/O	WITHOUT
GEOTECH.	GEOTECHNICAL	WF	WIDE FLANGE
GLB.	GLULAM BEAM	WPSL	WOLMANIZED PSL
H.D.	HOLD DOWN		
HDR.	HEADER		
HORIZ.	HORIZONTAL		
HSS	HOLLOW STEEL SECTION		

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119816 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 02/25/2022

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PROJECT

LYDIKSEN ELEMENTARY SCHOOL MODERNIZATION

PLEASANTON UNIFIED SCHOOL DISTRICT

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REGISTERED PROFESSIONAL ENGINEER THUY N. FONTELERA S 5536 STRUCTURAL STATE OF CALIFORNIA

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STATE
DSA FILE NUMBER 1-32
APPL # 01-119816

REVISIONS

No.	Description	Date
△		
△		

MILESTONES

SD	06/15/2021
DD	08/23/2021
50% CD	09/14/2021
90% CD	10/14/2021
DSA SUB	10/19/2021

SHEET

GENERAL STRUCTURAL NOTES

DATE 02/15/2022

JOB # ESE # 3388

SHEET # S1.00

2/10/2022 9:48:00 AM
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GENERAL STRUCTURAL NOTES

SPECIAL INSPECTIONS

SPECIAL INSPECTIONS AND TESTING WILL BE PERFORMED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS, CBC SECTIONS 1704A, 1705A, 1707A, 1708A, AND FORM DSA 103-19.

WHERE FABRICATATION OF STRUCTURAL LOAD BEARING MEMBERS AND ASSEMBLIES IS BEING PERFORMED ON THE PREMISES OF A FABRICATOR'S SHOP THAT IS EXEMPT TO SPECIAL INSPECTION PER CBC SECTION 1704.2.5, THE FABRICATOR SHALL SUBMIT DOCUMENTATION THAT THEY MEET THE REQUIREMENTS OF THIS SECTION TO THE STRUCTURAL ENGINEER OF RECORD AND THE GOVERNING JURISDICTION PRIOR TO THE START OF FABRICATION

EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A SEISMIC FORCE RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM OR A SEISMIC RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF THE WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING:

1. ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS.
2. ACKNOWLEDGEMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.
3. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND THE DISTRIBUTION OF THE REPORTS.
4. IDENTIFICATION AND QUALIFICATION OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.

CONTRACTOR SUBMITTALS

THE FOLLOWING IS A LISTING OF REQUIRED ITEMS TO BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD AND/OR ARCHITECT FOR REVIEW AND COORDINATION PRIOR TO FABRICATION AND INSTALLATION. (TO BE PROVIDED IF MARKED):

SUBMITTAL	CERTIFICATE	SHOP DRAWINGS	CALCS W/ ENG. STAMP
CONCRETE REINF. STEEL	●	●	
CONCRETE MIX DESIGN		●	
STRUCTURAL STEEL	●	●	
GLUE-LAMINIATED BEAMS		●	
CROSS LAMINATED TIMBER PANELS	●	●	

NAILING SCHEDULE (CBC TABLE 2304.10.1)

DESCRIPTION OF ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION
ROOF		
1. Blocking between ceiling joists, rafters or trusses to top plate or other framing below	3-8d common (2 1/2"x0.131"); or 3-10d box (3"x0.128")	Each end, toenail
Blocking between rafters or truss not at the wall top plate, to rafter or truss	2-8d common (2 1/2"x0.131")	Each end, toenail
	2-16d common (3 1/2"x0.162")	End nail
Flat blocking to truss and web filler	16d common (3 1/2"x0.162")	Face nail
2. Ceiling joist to top plate	3-8d common (2 1/2"x0.131"); or 3-10d box (3"x0.128")	Each joist, toenail
3. Ceiling joist not attached to parallel rafter, laps over partitions (no thrust) (see Section 2308.7.3.1, Table 2308.7.3.1)	3-16d common (3 1/2"x0.162"); or 4-10d box (3"x0.128")	Face nail
5. Collar tie to rafter	3-10d common (3"x0.148"); or 4-10d box (3"x0.128")	Face nail
6. Rafter or roof truss to top plate (See Section 2308.7.5., Table 2308.7.5)	3-10d common (3"x0.148"); or 3-16d box (3 1/2"x0.135"); or 4-10d box (3"x0.128"	Toenail[1]
7. Roof rafters to ridge valley or hip rafters; or roof rafter to 2-inch ridge beam	2-16d common (3 1/2"x0.162"); or 3-10d box (3"x0.128")	End nail
	3-10d common (3 1/2"x0.148"); or 3-16d box (3 1/2"x0.135"); or 4-10d box (3"x0.128")	Toenail
WALL		
8. Stud to stud (not at braced wall panels)	16d common (3 1/2"x0.162");	24" o.c. face nail
	10d box (3"x0.128")	16" o.c. face nail
9. Stud to stud and abutting studs at intersecting wall corners (at braced wall panels)	16d common (3 1/2"x0.162"); or	16" o.c. face nail
	16d box (3 1/2"x0.135"); or	12" o.c. face nail
11. Continuous header to stud	4-8d common (2 1/2"x0.131"); or 4-10d box (3"x0.128")	Toenail
12. Top plate to top plate	16d common (3 1/2"x0.162"); or	16" o.c. face nail
	10d box (3"x0.128")	12" o.c. face nail
13. Top plate to top plate, at end joints	8-16d common (3 1/2"x0.162"); or 12-10d box (3"x0.128")	Each side of end joint, face nail (min. 24" lap splice length ea. side of end joint
14. Bottom plate to joist, rim joist, band joist or blocking (not at all braced wall panels)	16d common (3 1/2"x0.162"); or	16" o.c. face nail
	16d box (3 1/2"x0.135")	12" o.c. face nail
15. Bottom plate to joist, rim joist, band joist or blocking at braced wall panels	2-16d common (3 1/2"x0.162"); or 3-16d box (3 1/2"x0.135")	16" o.c. face nail
16. Stud to top or bottom plate	4-8d common (2 1/2"x0.131"); or 4-10d box (3"x0.128")	Toenail
	2-16d common (3 1/2"x0.162"); or 3-10d box (3"x0.128")	End nail
17. Top plates, laps at corners and intersections	2-16d common (3 1/2"x0.162"); or 3-10d box (3"x0.128")	Face nail
FLOOR		
21. Joist to sill, top plate, or girder	3-8d common (2 1/2"x0.131"); or 3-10d box (3"x0.128")	Toenail
22. Rim joist, band joist, or blocking to top plate, sill or other framing below	8d common (2 1/2"x0.131"); or 10d box (3"x0.128")	6" o.c., toenail
23. 1"x6" subfloor or less to each joist	2-8d common (2 1/2"x0.131"); or 2-10d box (3"x0.128")	Face nail
24. 2" subfloor to joist or girder	2-16d common (3 1/2"x0.162")	Face nail
25. 2" planks (plank & beam - floor & roof)	2-16d common (3 1/2"x0.162")	ea. bearing, face nail
26. Built-up girders and beams, 2" lumber layers	20d common (4"x0.192")	32" o.c., face nail at top and bottom staggered on opposite sides
	10d box (3"x0.128"); or 3"x0.131" nails; or 3" 14 gage staples, 7/16" crown	24" o.c., face nail at top and bottom staggered on opposite sides
	And: 20d common (4"x0.192") 10d box (3"x0.128")	Ends and at each splice, face nail
27. Ledger strip supporting joists or rafters	3-16d common (3 1/2"x0.162"); or 4-10d box (3"x0.128")	Each joist or rafter, face nail
28. Joist to band joist or rim joist	3-16d common (3 1/2"x0.162"); or 4-10d box (3"x0.128"	End nail
29. Joist to band joist or rim joist	2-8d common (2 1/2"x0.131"); or 2-10d box (3"x0.128")	Each end, toe nail

NOTES:

1. NAILING PER SCHEDULE ABOVE IS TO BE USED WHERE NAILING IS NOT SPECIFIED ON PLANS OR DETAILS. NAILING PER PLANS AND DETAILS SUPERCEDE NAILING SCHEDULE UNLESS APPROVED BY ENGINEER.
2. NAIL SPECIFIED ARE COMMMON: 8d= 2 1/2"x0.131" 10d= 3"x0.148" 16d= 3 1/2"x0.162" 20d= 4"x0.192"
3. FOR ALTERNATE NAILING AND INFORMATION NOT SHOWN, SEE COMPLETE TABLE CBC 2304.10.1

SYMBOLS

- DETAIL NUMBER / SHEET NUMBER
- DROP IN FLOOR ELEVATION
- SLOPE — SLOPED FINISH SEE ARCHITECTURAL DRAWING
- DEPRESSED FLOOR
- NEW CONTINUOUS FOUNDATION UNDER STRUCTURAL WALL
- 18" DIAMETER DRILLED PIER U.O.N. PIER SHALL BE EMBEDDED MINIMUM OF 8 FEET INTO THE UNDERLYING CLAYSTONE BEDROCK OR A DEPTH EQUAL TO THE THICKNESS OF OVERBURDEN, WHICHEVER IS GREATER.
- Fx — SPREAD FOOTING SEE SCHEDULE, SEE DETAIL XXX
- CONCRETE CURB OR HIGH STEM
- HD — HOLD DOWN, SEE DETAIL 12/S5.03 FOR HDU AT FOUNDATION AND SEE DETAIL 11/S8.02 FOR HOLD DOWN AT FLOOR.
- * HD — HOLD DOWN IN EPOXY AT EXISTING CONCRETE SEE 10/S5.03
- CONTINUOUS WOOD MEMBER IN SECTION
- WOOD BLOCKING MEMBER IN SECTION
- POST ABOVE FRAMING
- POST BELOW FRAMING
- POST ABOVE AND BELOW FRAMING
- WALLS ABOVE FOR ANCHOR BOLT REQUIREMENTS SEE 8/S8.02
- WALLS BELOW FLOOR/ ROOF FRAMING SEE 1/S8.01
- SHEAR WALL ABOVE SEE SHEARWALL SCHEDULE ON DETAIL 5/S8.02. "#" DENOTES EDGE NAILING. IN ADDITION TO THE SPECIFIC LOCATIONS SHOWN ON THE PLANS, ALL THE EXTERIOR WALLS SHALL BE SHEATHED WITH PLYWOOD INCLUDING ABOVE AND BELOW ALL WALL OPENINGS, AND INCLUDING GABLE WALLS. NAIL PER MARK " 6 " ON SCHEDULE. X'-X" = MIN. CALCULATED SHEAR WALL LENGTH, S.A.D. FOR ACTUAL WALL DIMENSIONS.
- E X'-X" — EXISTING SHEAR WALL ABOVE
- STRAPPED SHEAR WALL ABOVE SEE DETAIL 4/S8.02 AND 5/S8.02 FOR NAILING SCHEDULE AND OTHER REQUIREMENTS. # X'-X" X'-X" — X'-X" = MIN. CALCULATED SHEAR WALL LENGTH, LEFT TO RIGHT, S.A.D. FOR ACTUAL WALL DIMENSIONS
- SHEAR WALL BELOW SEE FLOOR PLAN BELOW FOR NAILING INFORMATION
- FRAMING MEMBER — DIAGRAMMATIC EXTENT OF FRAMING
- DBL — DOUBLE JOISTS OR RAFTER
- HDR — HEADER BELOW FRAMING USE TYP. HEADER PER SCHED. 5/S8.01, U.O.N. ON PLAN
- BEARING WALL — INDICATES JOIST SPLICE — BEAM/GIRDER
- CEILING BEAM OR DROPPED BEAM BELOW FRAMING
- CMSTXX (X,Y) — X=LENGTH TO LEFT Y=LENGTH TO RIGHT BOTH IN FEET — HORIZONTAL COLLECTOR STRAP — CENTER OF STRAP
- WF / HSS — STRUCTURAL STEEL COLUMN, SEE SHEET S7.01, S7.02
- SEISMIC MOMENT CONNECTION, SEE DETAIL XXX
- SEISMIC MOMENT CONNECTION WITH REDUCED BEAM SECTION, SEE DETAIL XXX
- DENOTE NON-SEISMIC MOMENT RESISTING CONNECTIONS. SEE DETAIL 8/S7.01
- MEMBERS ARE PART OF S.L.R.S., SEE NOTES ON SHEETS S3.01 AND S7.03
- C=XX" — BEAM CAMBER AT MIDSPAN
- DENOTES CONNECTION IS PART OF THE SEISMIC LOAD RESISTING SYSTEM. SEE DETAILS XXX AND XXX FOR REQUIREMENTS.

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DSA FILE NUMBER 1-32

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No.	Description	Date

MILESTONES

SD	06/15/2021
DD	08/23/2021
50% CD	09/14/2021
90% CD	10/14/2021
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SHEET

GENERAL STRUCTURAL NOTES

DATE 02/15/2022

JOB # ESE # 3388

SHEET # S1.01

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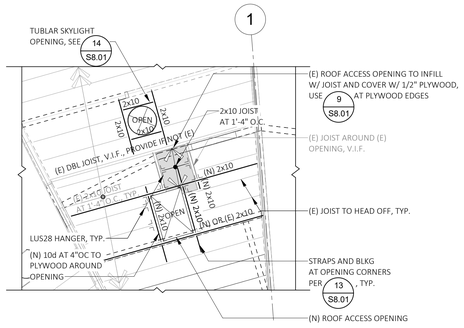
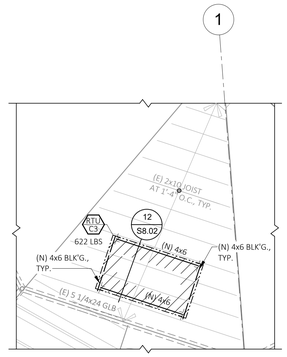
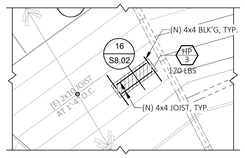


5 ENLARGED ROOF FRAMING PLAN
BUILDING C
1/4" = 1'-0"



4 ENLARGED ROOF FRAMING PLAN AT RTU
BUILDING C
1/4" = 1'-0"



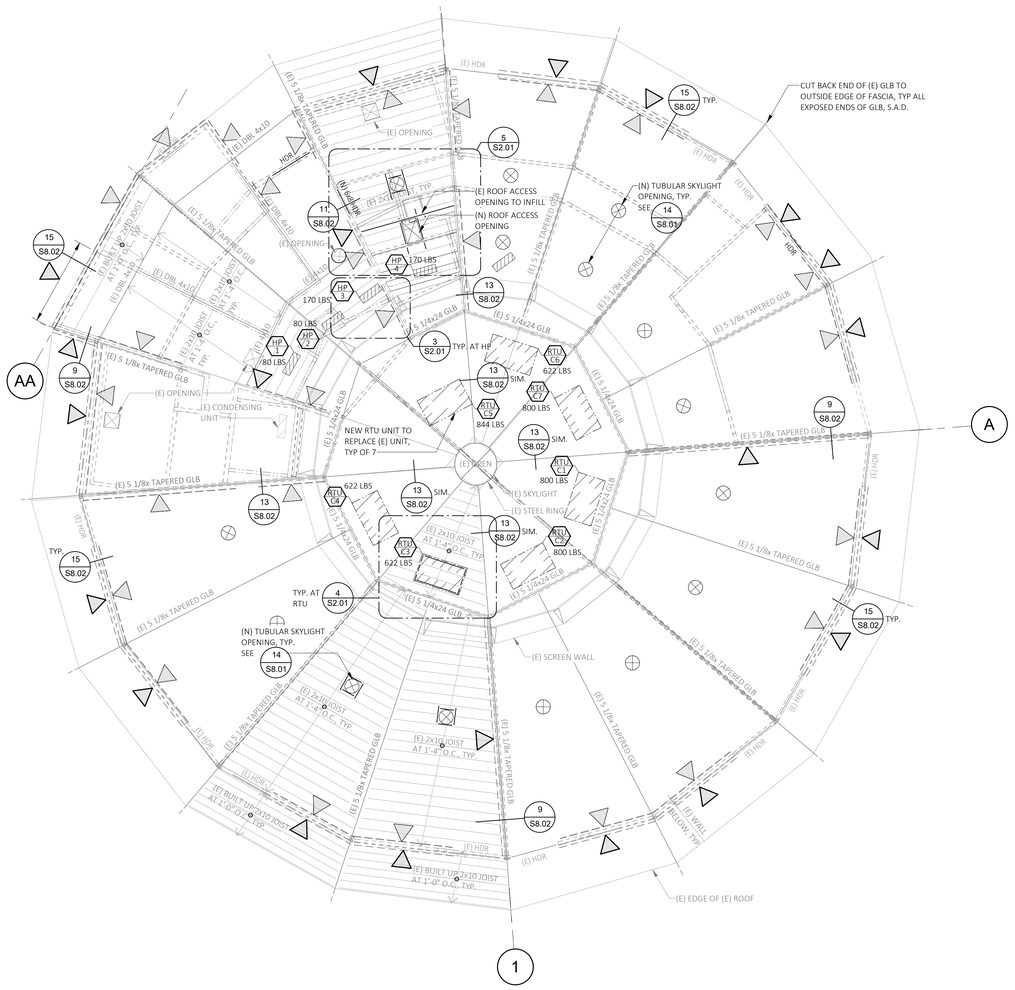
3 ENLARGED ROOF FRAMING PLAN AT HP
BUILDING C
1/4" = 1'-0"

FOUNDATION NOTES

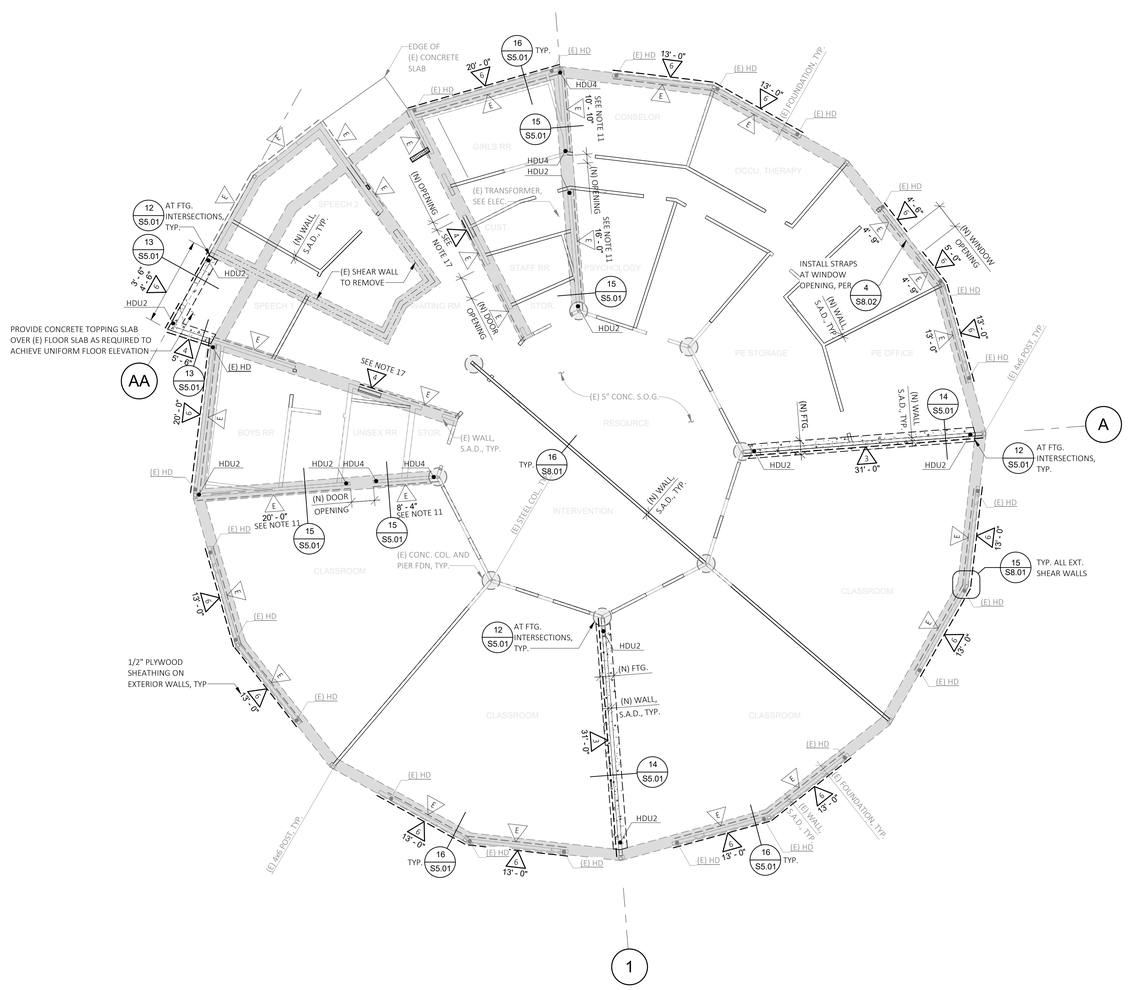
1. SEE GENERAL NOTES AND SYMBOLS ON SHEET S1.00 AND S1.01.
2. SEE TYPICAL DETAILS 1, 2, 3, 4, 6, 7, 8, 9, 10, 11 ON SHEET S5.01.
3. SEE ARCHITECTURAL PLANS FOR ACTUAL FINISH FLOOR AND PAD ELEVATIONS.
4. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.
5. EXCAVATION SHALL BE MADE AS NEAR AS POSSIBLE TO THE LINES REQUIRED BY THE FOOTING. NO MATERIAL IS TO BE OVER EXCAVATED UNNECESSARILY. EXCAVATION SHALL BE MADE IN COMPLIANCE WITH CAL/OSHA REGULATIONS.
6. VERIFY LOCATION OF UNDERGROUND UTILITIES BEFORE EXCAVATION. NOTIFY ARCHITECT PRIOR TO EXCAVATION IN THE EVENT SUCH UTILITIES ARE ENCOUNTERED.
7. FOR DRAINAGE DETAILS, SUMPS, PITS, DAMPROOFING, TRENCHES, CURBS, EXTERIOR WALKS, UTILITIES EQUIPMENT DETAILS, STEPS, DIMENSIONS NOT SHOWN, ETC., SEE DRAWINGS OTHER THAN STRUCTURAL.
8. COORDINATE UNDERGROUND CONDUIT AND FOUNDATION PRIOR TO CONCRETE POUR.
9. CONTRACTOR TO DETERMINE REQUIRED HEIGHT OF CONCRETE CURB TO MAINTAIN REQUIRED 8" MIN. SEPARATION FROM FINISH GRADE TO WOOD AND 6" SEPARATION FROM FINISHED FLATWORK TO WOOD. PROVIDE CONCRETE CURB AS REQUIRED AND SHOWN IN DETAILS. STEP CURBS AS NEEDED, TYPICAL AT ALL PERIMETER WALLS.
10. ALL HOLD DOWN CONNECTIONS SHALL BE RE-TIGHTENED JUST PRIOR TO CLOSURE.
11. ADD 10d E.N. TO ALL EDGES OF ALL (E) PLYWOOD PANELS ON WALL TO ACHIEVE AT MAXIMUM E.N. SPACING OF 3"O.C. (EXISTING NAILING AND NEW NAILING COMBINED).
12. HOLD DOWN ANCHORS TO BE SET AND POSITIONED IN PLACE PRIOR TO CALLING FOR FOUNDATION INSPECTION.
13. THE FASTENERS EMBEDDED INTO CONCRETE SHALL BE ATTACHED TO OR HOOKED AROUND REINFORCING STEEL OR OTHERWISE TERMINATED TO EFFECTIVELY TRANSFER FORCES TO THE REINFORCING STEEL.
14. FASTENERS IN PRESERVATIVE-TREATED WOOD (ANCHOR BOLTS, NAILS, SCREWS, ETC. AT ALL EXTERIOR WALL CONSTRUCTION) SHALL BE APPROVED SILICON BRONZE OR COPPER, STAINLESS STEEL OR HOT-DIPPED ZINC-COATED STEEL. (CBC SECTION 2304.10.5.1)
15. PROJECT SOIL ENGINEER MUST REVIEW FINAL GRADING. DO NOT POUR FOUNDATION CONCRETE UNTIL OBTAINING SOIL ENGINEER'S WRITTEN APPROVAL. IN NO CIRCUMSTANCES SHALL CHANGES BE MADE TO THE BOTTOM OF FOOTING ELEVATIONS SHOWN EXCEPT AS DIRECTED BY THE ENGINEER.
16. ALL EARTHWORK AND SITE DRAINAGE, INCLUDING BUILDING PAD PREPARATION, SPREAD FOOTING EXCAVATIONS, PREPARATION OF SUBGRADE BENEATH HARDSCAPE, PLACEMENT AND COMPACTION OF ENGINEERED FILL BENEATH HARDSCAPE, UTILITY TRENCH BACKFILL, AND INSTALLATION OF SURFACE DRAINAGE SHOULD BE PERFORMED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT PREPARED BY CONSTRUCTION TESTING SERVICES DATED 09/25/2018 SHOULD BE PROVIDED AT LEAST 48 HOURS ADVANCE NOTIFICATION OF ANY EARTHWORK OPERATIONS AND SHOULD BE PRESENT TO OBSERVE AND TEST, AS NECESSARY, THE EARTHWORK AND FOUNDATION INSTALLATION PHASES OF THE PROJECT.
17. SEE DETAIL 10/S8.02 FOR INFILL OF (E) OPENINGS IN (E) SHEAR WALLS.

ROOF FRAMING NOTES

1. SEE GENERAL NOTES AND SYMBOLS ON SHEET S1.00 AND S1.01.
2. SEE TYPICAL DETAILS 1, 2, 3, 4, 5, 6, 7, 11, 12, AND 13 ON SHEET S8.01.
3. SEE TYPICAL DETAILS 2, 3, 4, 5, 6, 7, AND 8 ON SHEET S8.02.
4. SEE DETAIL 7/S8.01 FOR ALLOWABLE HOLES AND NOTCHES AT FRAMING MEMBERS.
5. SEE DRAWINGS OTHER THAN STRUCTURAL FOR FLOOR DEPRESSIONS, MECHANICAL, ELECTRICAL AND SHAFT OPENINGS, ETC.
6. SAWN LUMBER BEAMS SPECIFIED MAY BE SUBSTITUTED WITH PREFABRICATED BEAMS (ie. LSL) AS A CONTRACTOR OPTION. THIS SUBSTITUTION SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER OF RECORD.
7. SEE DETAILS 13/S8.01 AND 14/S8.01 FOR FRAMING AT NEW OPENINGS.
8. ALL LUMBER EXPOSED TO WEATHER SHALL BE P.T. OR WOLMANIZED.
9. REFER TO DETAIL 3/S8.01 FOR REQUIRED TOP PLATE SPLICE INFORMATION.



2 ROOF FRAMING PLAN
BUILDING C
1/8" = 1'-0"



1 FOUNDATION PLAN
BUILDING C
1/8" = 1'-0"

KEY PLAN

DENOTES (E) SHEAR WALL TO REMOVE

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SHEET

BUILDING C - FOUNDATION AND ROOF FRAMING PLAN

DATE 02/15/2022
JOB # ESE # 3388
SHEET # S2.01

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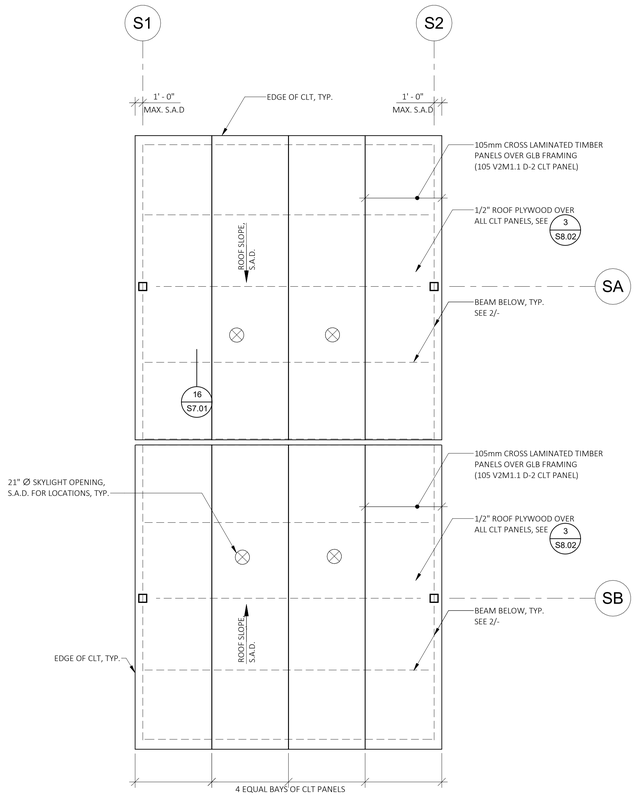
ROOF FRAMING NOTES

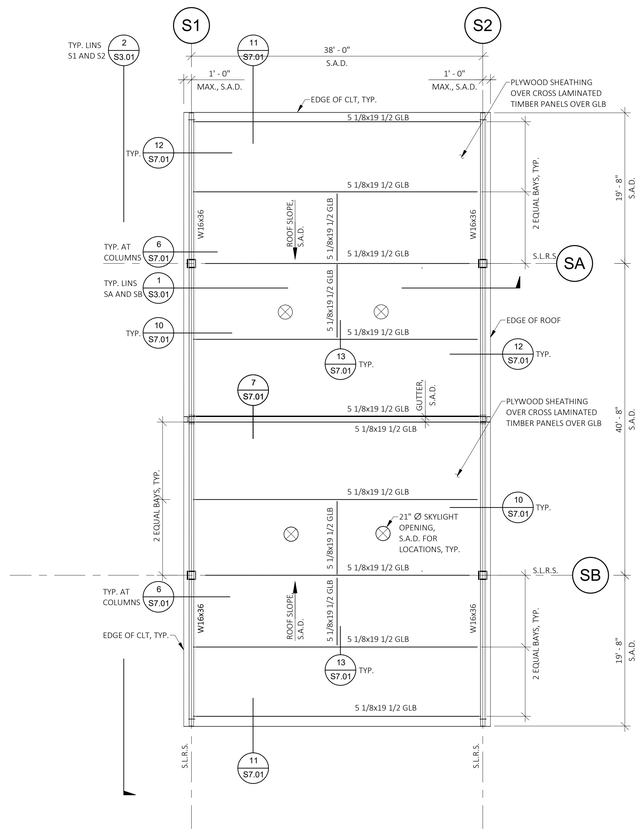
1. SEE GENERAL NOTES AND SYMBOLS ON SHEET S1.00 AND S1.01.
2. SEE DRAWINGS OTHER THAN STRUCTURAL FOR FLOOR DEPRESSIONS, MECHANICAL, ELECTRICAL AND SHAFT OPENINGS, ETC.
3. THE STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE, AND DO NOT INDICATE THE MEANS AND METHODS OF CONSTRUCTION NOR THE ERECTION SEQUENCING. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONSTRUCT THE STRUCTURE AND PROVIDE ADEQUATE SHORING AND TEMPORARY BRACING AS REQUIRED.
4. BEAMS ARE EQUAL SPACED UNLESS OTHERWISE NOTED.
5. CAMBER GLULAM BEAMS TO A RADIUS OF 2,000 FEET.

FOUNDATION NOTES

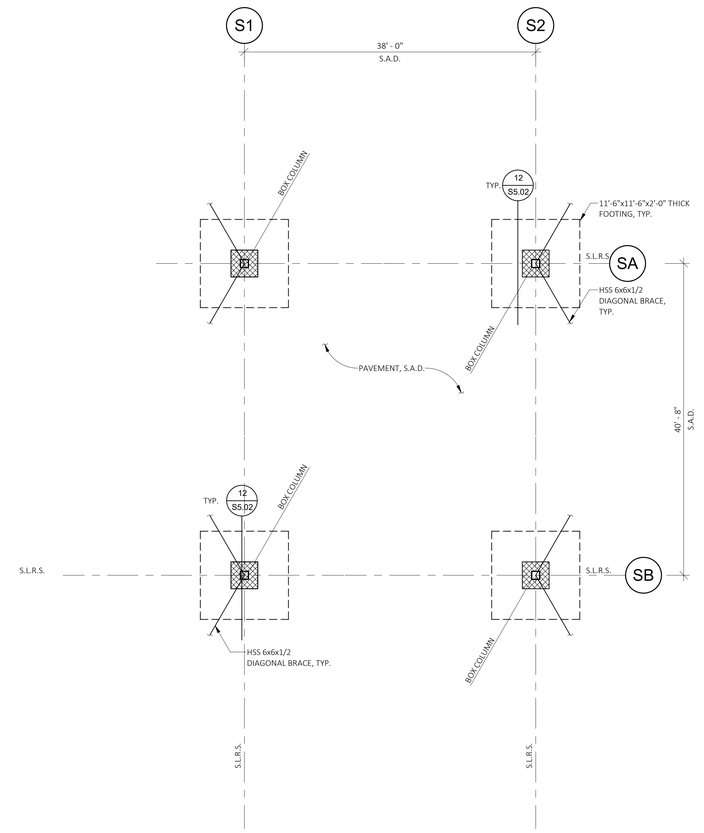
1. SEE GENERAL NOTES AND SYMBOLS ON SHEET S1.00 AND S1.01.
2. SEE TYPICAL DETAILS 1, 2, 3, 4, 6, 7, 8, 9, 10, 11 ON SHEET S5.01.
3. SEE ARCHITECTURAL PLANS FOR ACTUAL FINISH FLOOR AND PAD ELEVATIONS
4. EXCAVATION SHALL BE MADE AS NEAR AS POSSIBLE TO THE LINES REQUIRED BY THE FOOTING. NO MATERIAL IS TO BE OVER EXCAVATED UNNECESSARILY. EXCAVATION SHALL BE MADE IN COMPLIANCE WITH CAL/OSHA REGULATIONS.
5. VERIFY LOCATION OF UNDERGROUND UTILITIES BEFORE EXCAVATION. NOTIFY ARCHITECT PRIOR TO EXCAVATION IN THE EVENT SUCH UTILITIES ARE ENCOUNTERED.
6. FOR DRAINAGE DETAILS, SUMPS, PITS, DAMPROOFING, TRENCHES, CURBS, EXTERIOR WALKS, UTILITIES EQUIPMENT DETAILS, STEPS, DIMENSIONS NOT SHOWN, ETC., SEE DRAWINGS OTHER THAN STRUCTURAL.
7. COORDINATE UNDERGROUND CONDUIT AND FOUNDATION PRIOR TO CONCRETE POUR.
8. SETBACK CONDITIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO TRENCHING AND FORMING FOUNDATION. THE FOUNDATION SUBCONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR, SURVEYOR AND THE ARCHITECT.
9. SEE DETAIL ON SHEET S5.01 FOR TYPICAL CONCRETE REINFORCING REQUIREMENTS.
10. THE FASTENERS EMBEDDED INTO CONCRETE SHALL BE ATTACHED TO OR HOOKED AROUND REINFORCING STEEL OR OTHERWISE TERMINATED TO EFFECTIVELY TRANSFER FORCES TO THE REINFORCING STEEL.
11. FASTENERS IN PRESERVATIVE-TREATED WOOD (ANCHOR BOLTS, NAILS, SCREWS, ETC. AT ALL EXTERIOR WALL CONSTRUCTION) SHALL BE APPROVED SILICON BRONZE OR COPPER, STAINLESS STEEL OR HOT-DIPPED ZINC-COATED STEEL. (CBC SECTION 2304.10.5.1)
12. PROJECT SOIL ENGINEER MUST REVIEW FINAL GRADING. DO NOT POUR FOUNDATION CONCRETE UNTIL OBTAINING SOIL ENGINEER'S WRITTEN APPROVAL. IN NO CIRCUMSTANCES SHALL CHANGES BE MADE TO THE BOTTOM OF FOOTING ELEVATIONS SHOWN EXCEPT AS DIRECTED BY THE ENGINEER.
13. ALL EARTHWORK AND SITE DRAINAGE, INCLUDING BUILDING PAD PREPARATION, SPREAD FOOTING EXCAVATIONS, PREPARATION OF SUBGRADE BENEATH HARDSCAPE, PLACEMENT AND COMPACTION OF ENGINEERED FILL BENEATH HARDSCAPE, UTILITY TRENCH BACKFILL, AND INSTALLATION OF SURFACE DRAINAGE SHOULD BE PERFORMED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT PREPARED BY CONSTRUCTION TESTING SERVICES DATED 09/25/2018. GEOTECHNICAL ENGINEER SHOULD BE PROVIDED AT LEAST 48 HOURS ADVANCE NOTIFICATION OF ANY EARTHWORK OPERATIONS AND SHOULD BE PRESENT TO OBSERVE AND TEST, AS NECESSARY, THE EARTHWORK AND FOUNDATION INSTALLATION PHASES OF THE PROJECT.
14. "BOX COLUMN" INDICATES COLUMN PER DETAIL 13/S5.02. AT CONTRACTOR OPTION. USE HSS13x13x7/8 COLUMN IN LIEU OF BOX COLUMN.



3 CROSS LAMINATED PANEL PLAN
SHADE STRUCTURE
1/8" = 1'-0"



2 ROOF FRAMING PLAN
SHADE STRUCTURE
1/8" = 1'-0"



1 FOUNDATION PLAN
SHADE STRUCTURE
1/8" = 1'-0"

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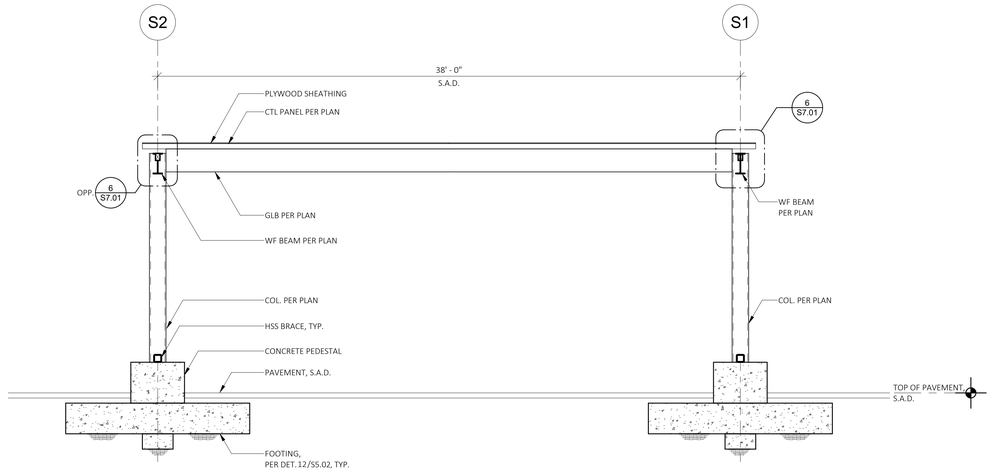
SHEET

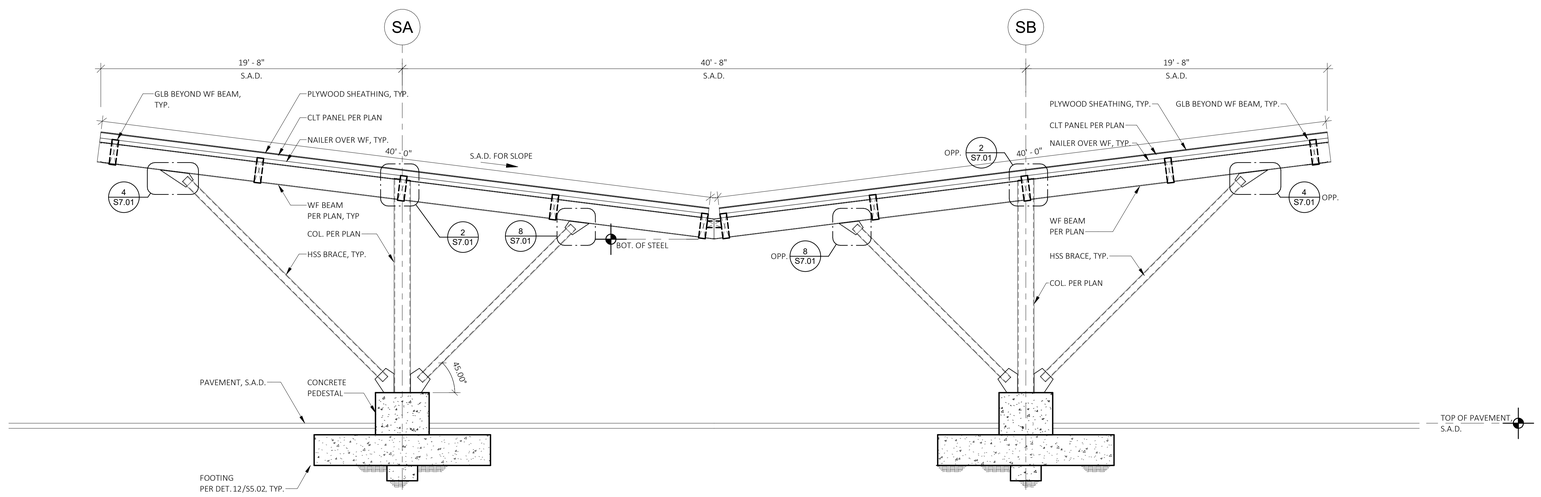
SHADE STRUCTURE - FOUNDATION AND ROOF FRAMING PLAN

DATE 02/15/2022
JOB # ESE # 3388
SHEET # S2.02



1 SHADE STRUCTURE SECTION - LINE SA AND SB

1/4" = 1'-0"



2 SHADE STRUCTURE WEST ELEVATION
(EAST ELEVATION SIMILAR)

1/4" = 1'-0"

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DSA SUB	10/19/2021

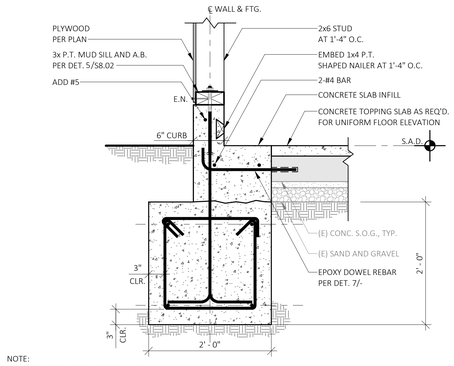
SHEET

SHADE STRUCTRE - ELEVATIONS

DATE 02/15/2022

JOB # ESE # 3388

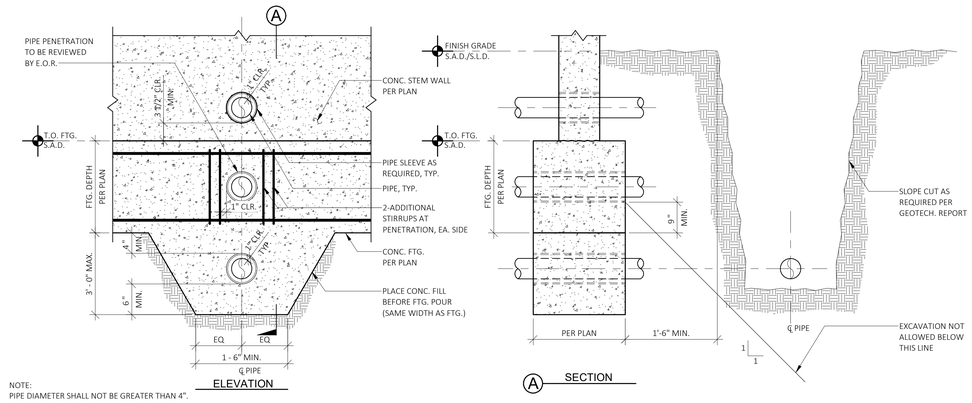
SHEET # S3.01



NOTE:
FOR INFO. NOT NOTED, SEE DET. 14/-.

13 EXTERIOR CONTINUOUS FOOTING AT SHEAR WALL

1" = 1'-0"



NOTE:
PIPE DIAMETER SHALL NOT BE GREATER THAN 4".

9 TYPICAL PIPE PENETRATION

05-100-06
1" = 1'-0"

TABLE 1A - STANDARD REINFORCING STEEL HOOKS

BAR SIZE	D (IN.)	STANDARD HOOK LENGTH (INCHES) 180° A or G	180° J	90° A or G
#3	2 1/4	5	3	6
#4	3	6	4	8
#5	3 3/4	7	5	10
#6	4 1/2	8	6	12
#7	5 1/4	10	7	14
#8	6	11	8	16

NOTES:
d = BAR DIAMETER
d = BAR DIAMETER
D = 6d FOR #3 THROUGH #8

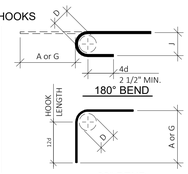
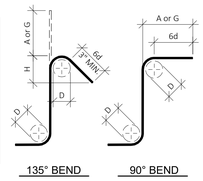


TABLE 1B - TYPICAL STIRRUP AND TIE HOOKS

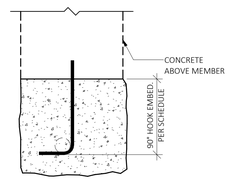
BAR SIZE	D (IN.)	STIRRUP HOOK LENGTH (INCHES) 90° A or G	135° A or G	135° Happrox.
#3	1 1/2	4	4	2 1/2
#4	2	4 1/2	4 1/2	3
#5	2 1/2	6	5 1/2	3 3/4
#6	4 1/2	12	8	4 1/2
#7	5 1/4	14	9	5 1/4
#8	6	16	10 1/2	6

NOTES:
d = BAR DIAMETER
d = BAR DIAMETER
D = 6d FOR #3 THROUGH #5 AND 12d FOR #6 THROUGH #8



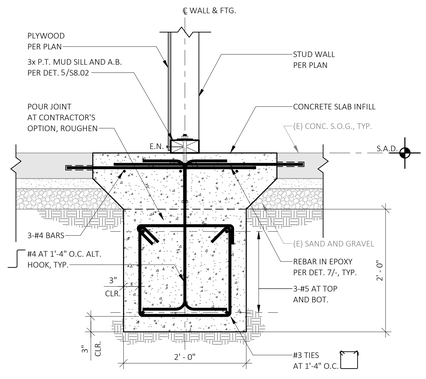
1 STANDARD HOOKS, STIRRUPS, AND TIES

05-100-01
N.T.S.



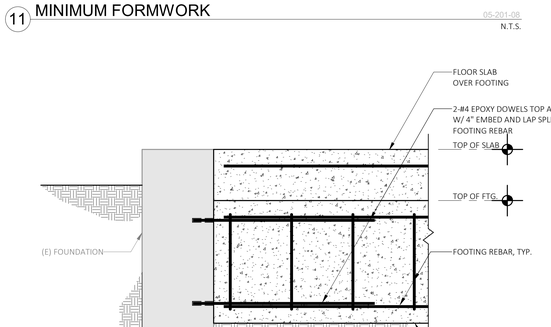
90° HOOK EMBEDMENT FOR GRADE 60 REINFORCING

f'c BAR SIZE	2,500 PSI EMBED. (IN.)	3,000 PSI EMBED. (IN.)	4,000 PSI EMBED. (IN.)	5,000 PSI EMBED. (IN.)
#3	9	9	8	7
#4	12	11	10	9
#5	15	14	12	11
#6	18	17	15	13
#7	21	20	17	15
#8	24	22	19	17



14 TYPICAL INTERIOR CONTINUOUS FOOTING AT SHEAR WALL

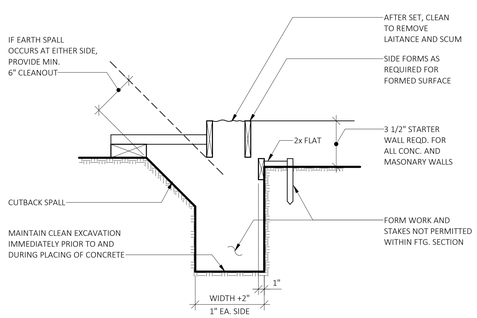
1" = 1'-0"



05-100-10

10 TYPICAL CURB AND RAISED PAD

N.T.S.

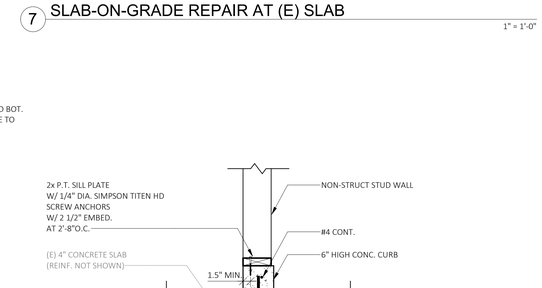


11 MINIMUM FORMWORK

05-201-08
N.T.S.

12 FOOTING INTERSECTION WITH (E) FOUNDATION

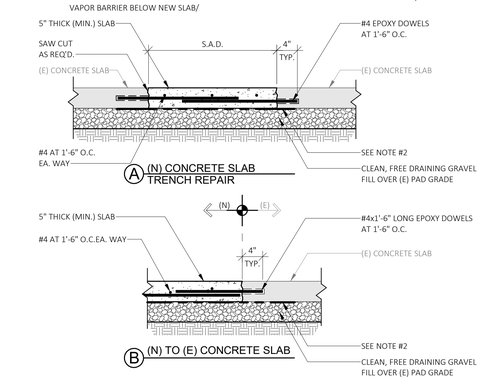
1" = 1'-0"



6 TYPICAL CONSTRUCTION JOINT AT FOUNDATION

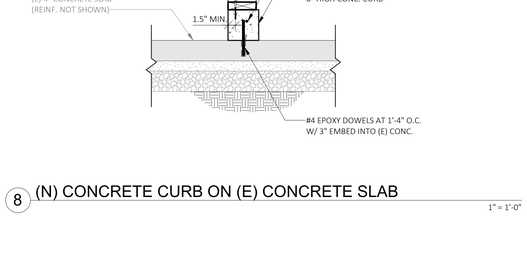
05-100-05
1" = 1'-0"

NOTES:
1. ROUGHEN (E) CONC. SURFACE AT JOINT.
2. WHERE GLUE APPLIED FINISH FLOOR MATERIALS ARE APPLIED TO TOP OF NEW CONCRETE SLAB, PROVIDE 12 MIL VAPOR BARRIER BELOW NEW SLAB/



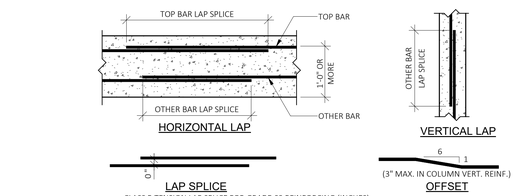
7 SLAB-ON-GRADE REPAIR AT (E) SLAB

1" = 1'-0"



8 (N) CONCRETE CURB ON (E) CONCRETE SLAB

1" = 1'-0"



CLASS B TENSION LAP SPLICE FOR GRADE 60 REINFORCING (INCHES)

BAR SIZE	TOP BARS f'c 2,500 PSI	3,000 PSI	4,000 PSI	5,000 PSI	OTHER BARS f'c 2,500 PSI	3,000 PSI	4,000 PSI	5,000 PSI
#3	23	21	18	17	18	16	14	13
#4	31	28	24	22	24	22	19	17
#5	38	35	31	27	30	27	24	21
#6	46	42	37	33	36	32	28	25
#7	67	61	53	48	52	47	41	37
#8	76	70	61	54	59	54	47	42

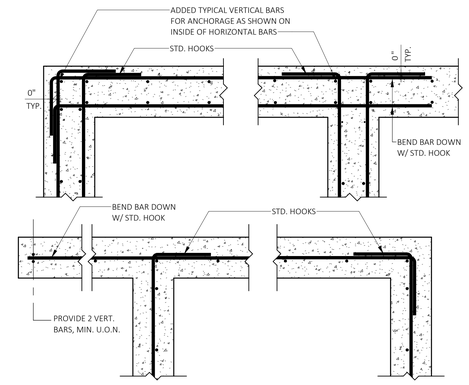
NOTES:
1. TOP BARS = HORIZONTAL BARS (OTHER THAN IN WALLS) PLACED WITH MORE THAN 1'-0" OF FRESH CONCRETE CAST BELOW THEM.
2. ABOVE TABLES ARE BASED UPON MINIMUM CLEAR COVER GREATER THAN 1.5db AND MINIMUM CLEAR SPACING GREATER THAN 4db. WHERE EITHER OF THESE REQUIREMENTS IS NOT MET, INCREASE THE LAP LENGTH BY 33%.
3. USE CLASS B LAP SPLICE FOR ALL BAR SPLICES TYPICAL

2 TYPICAL REINFORCEMENT EMBED

N.T.S.

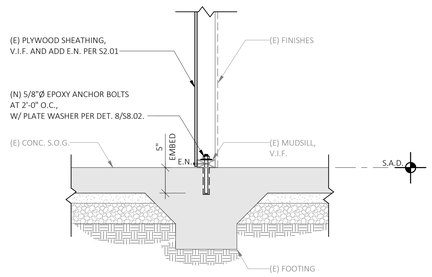
3 TYPICAL REINFORCEMENT LAP SPLICE

05-100-03
N.T.S.



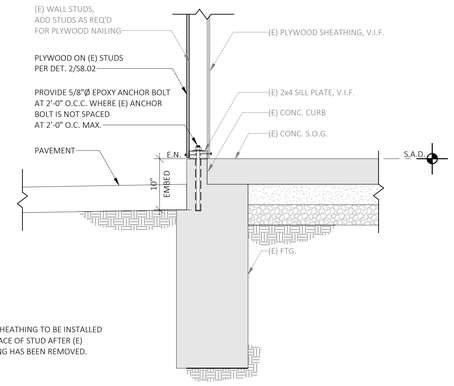
4 TYPICAL CONCRETE MEMBER AT INTERSECTIONS - PLAN VIEW

05-100-04
N.T.S.



15 PLYWOOD SHEATHING ON (E) INTERIOR WALL

1" = 1'-0"



16 PLYWOOD SHEATHING ON (E) EXTERIOR WALL

1" = 1'-0"

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DATE: 02/25/2022

aedis architects
www.aedisarchitects.com
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PROJECT

LYDIKSEN ELEMENTARY SCHOOL MODERNIZATION

PLEASANTON UNIFIED SCHOOL DISTRICT

CONSULTANT

element structural engineers, inc.
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www.elementse.com

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Date: 2022.02.10 12:05:12-08'00'

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DSA FILE NUMBER 1-32
APPL # 01-119816

REVISIONS

No.	Description	Date

MILESTONES

SD	06/15/2021
DD	08/23/2021
50% CD	09/14/2021
90% CD	10/14/2021
DSA SUB	10/19/2021

SHEET

CONCRETE DETAILS

DATE 02/15/2022
JOB # ESE # 3388
SHEET # S5.01

2/10/2022 9:48:16 AM
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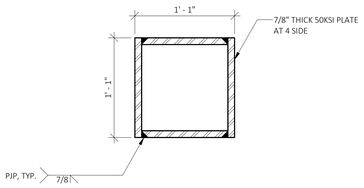
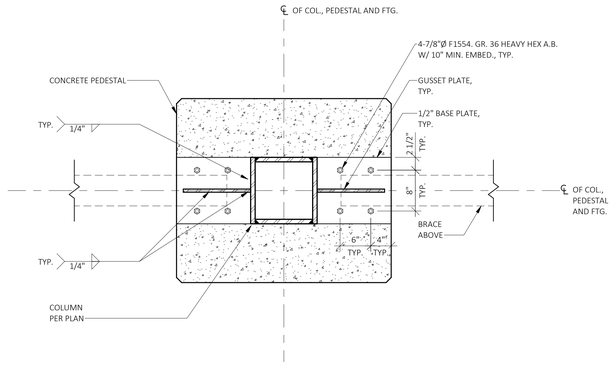
NOTES:
1. AT CONTRACTORS OPTION, HSS13x13x7/8 COLUMN MAY BE USED LIEU OF BOX COLUMN.



PLAN DETAIL

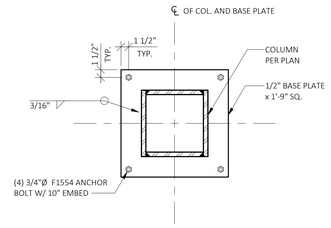
13 BOX COLUMN DETAIL

1 1/2" = 1'-0"



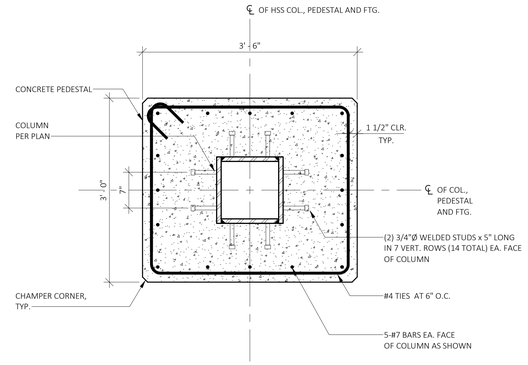
10 BASE PLATE PLAN VIEW

1" = 1'-0"



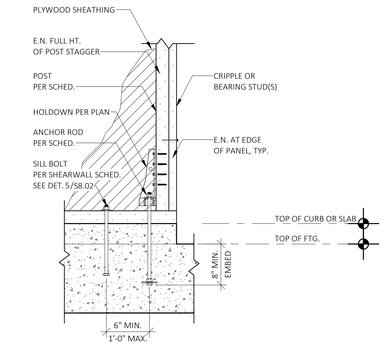
1 COLUMN BASE PLATE

1" = 1'-0"

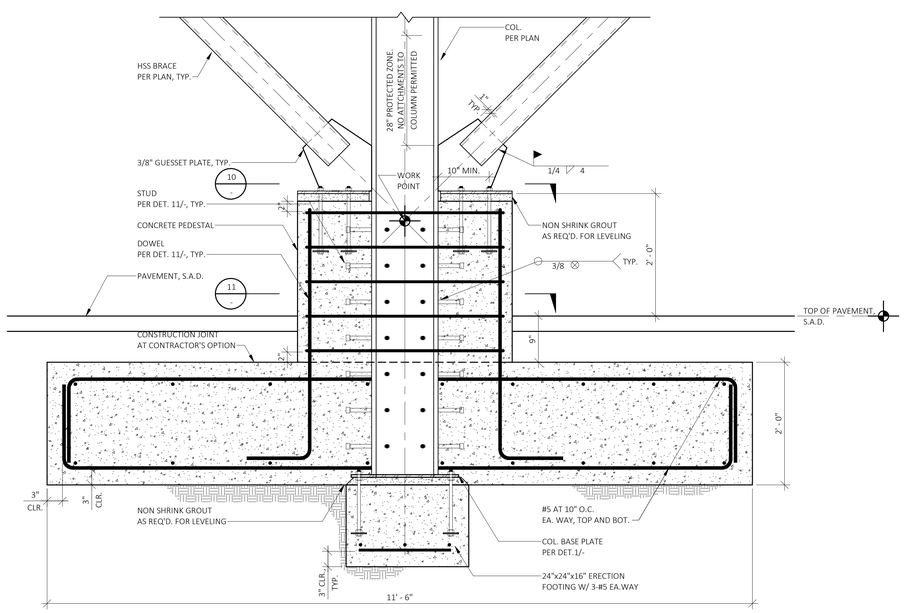


11 COLUMN PLAN VIEW

1" = 1'-0"

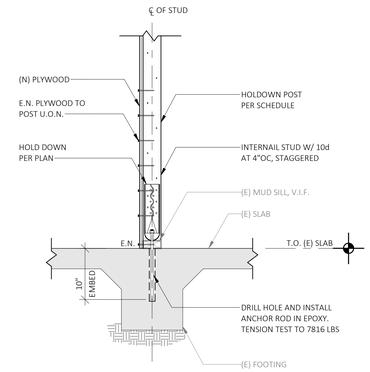


Ⓐ SINGLE HOLDOWN AT (N) FOUNDATION



12 COLUMN BASE AND FOUNDATION

1" = 1'-0"



Ⓑ HOLDOWN AT (E) FOUNDATION

HD TYPE	HOLDOWN POST SIZE	ANCHOR ROD IN EPOXY	ANCHOR ROD CAST IN CONCRETE
HDU2	2-2x	5/8" DIA.	SIMPSON PAB5H
HDU4	2-2x	5/8" DIA.	SIMPSON PAB5H
HDU5	2-2x	5/8" DIA.	SIMPSON PAB5H

NOTES:
HOLDOWN POST PER PLAN MAY BE LARGER.

4 HOLD DOWN DETAILS

1" = 1'-0"

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DSA FILE NUMBER 1-32

APPL # 01-119816

REVISIONS

No.	Description	Date
1		
2		

MILESTONES

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DSA SUB	10/19/2021

SHEET

CONCRETE DETAILS

DATE 02/15/2022

JOB # ESE # 3388

SHEET # S5.02

2/10/2022 9:48:19 AM
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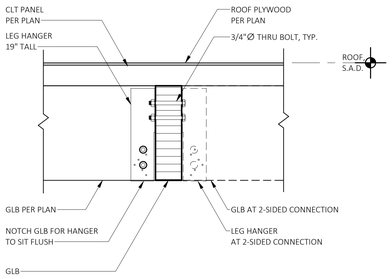
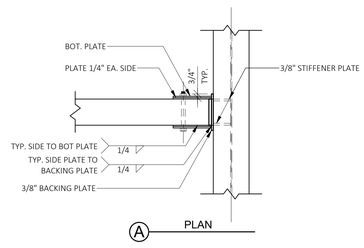
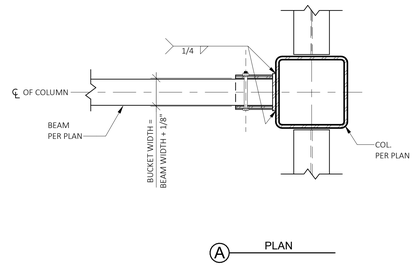


13 GLB TO GLB CONNECTION

1" = 1'-0"



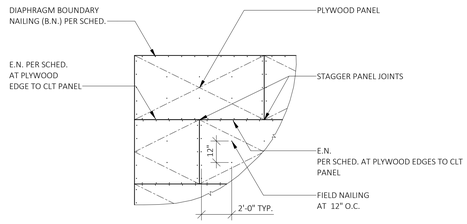


NOMINAL SIZE OF SUPPORTED MEMBER	NO. OF 7/8" DIA. A325N BOLTS (U.O.N.)	FILLET WELD SIZE "A"	SHEAR TAB THICKNESS (IN.)
W8, W10, C8, C10	2	1/4"	3/8
W12, W14, C12	3	1/4"	3/8
W16	4	1/4"	3/8
W18	4	1/4"	3/8

NOTES:
1. PROVIDE COMPLETE PENETRATION WELD BTWN. SHEAR TAB AND SUPPORTING MEMBER WHERE REQUIRED ANGLE IS OUTSIDE OF AWS PRE-QUALIFIED FILLET WELD LIMITATIONS.
2. AT CONNECTIONS DESIGNATED ON PLAN AS PART OF THE SLRS, PROVIDE SLIP CRITCAL SCHEDULED BOLT.

1 TYPICAL BOLTED CONNECTION SCHEDULE

N.T.S.

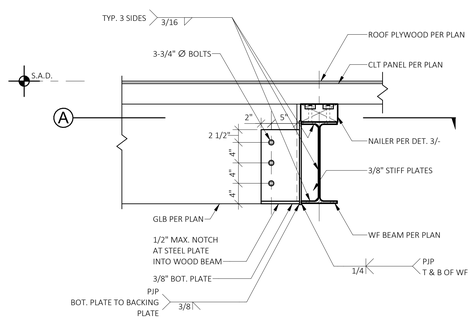


NOTES:
1. SEE GENERAL NOTES, SHEET S1.00 FOR PANEL THICKNESS AND GRADE.
2. INDIVIDUAL PANEL SHEETS SHALL BE A MINIMUM OF 4 FEETx8 FEET. EDGE PIECE SHALL NOT BE LESS THAN 2 FEET WIDE.

DIAPHRAGM NAILING SCHEDULE			
	NAIL SIZE	E.N.	B.N.
ROOFS	8d COMMON	6" O.C.	6" O.C.

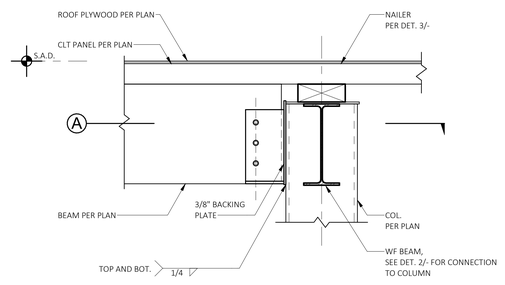
14 ROOF DIAPHRAGM ON CLT PANEL

N.T.S.



10 WOOD BEAM TO STEE BEAM

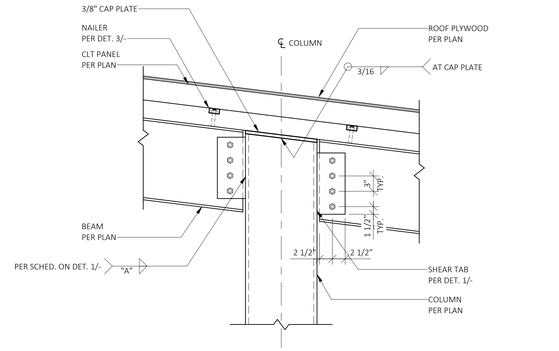
1" = 1'-0"



NOTE:
FOR STEEL BUCKET CONNECTION AND DETAIL, SEE DET. 9/-.

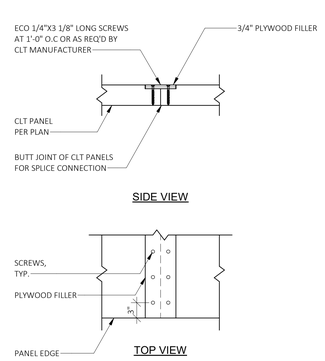
6 WOOD BEAM TO HSS POST

1" = 1'-0"



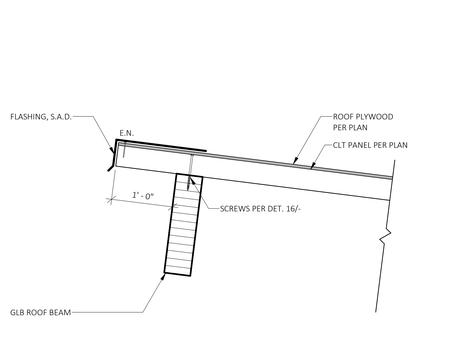
2 WF BEAM TO HSS COLUMN CONNECTION

1" = 1'-0"



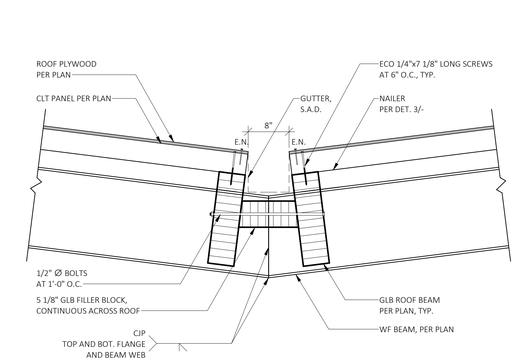
15 CLT PANEL TO PANEL CONNECTION

1" = 1'-0"



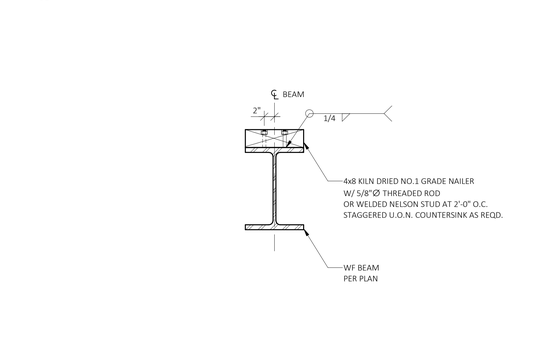
11 ROOF EDGE DETAIL

1" = 1'-0"



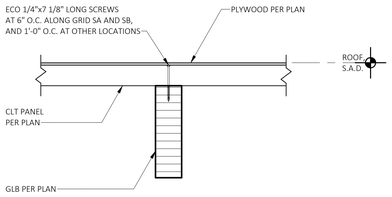
7 ROOF FRAMING AT GUTTER

1" = 1'-0"



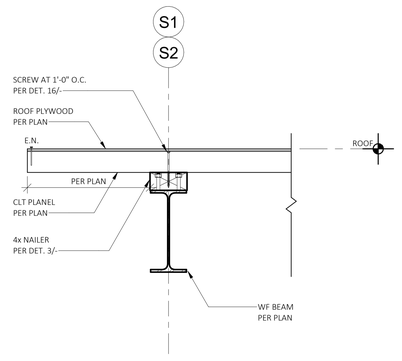
3 TYPICAL WOOD NAILERS AT STEEL MEMBERS

N.T.S.



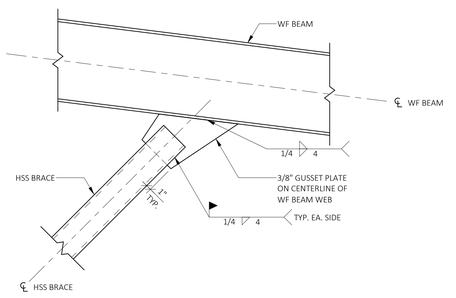
16 CLT PANEL TO GLB CONNECTION

1" = 1'-0"



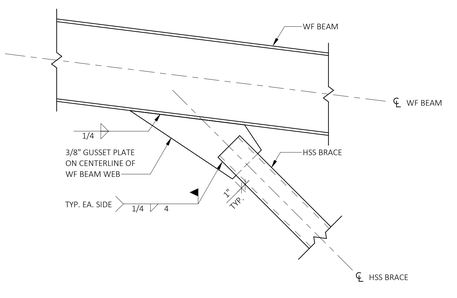
12 CLT PANEL TO STEEL BEAM

1" = 1'-0"



8 HSS BRACE CONNECTION DETAIL

1" = 1'-0"



4 HSS BRACE CONNECTION DETAIL

1" = 1'-0"

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www.aedisarchitects.com
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SD	06/15/2021
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50% CD	09/14/2021
90% CD	10/14/2021
DSA SUB	10/19/2021

SHEET

STEEL AND WOOD DETAILS

DATE 02/15/2022
JOB # ESE # 3388
SHEET # S7.01

2/10/2022 9:48:23 AM
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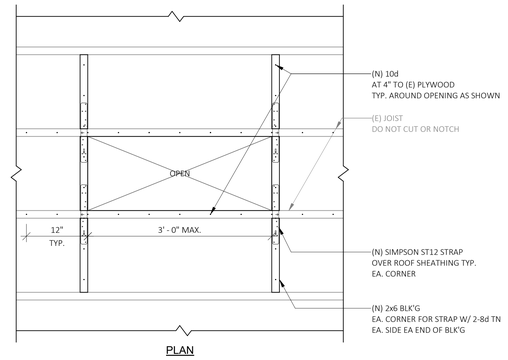
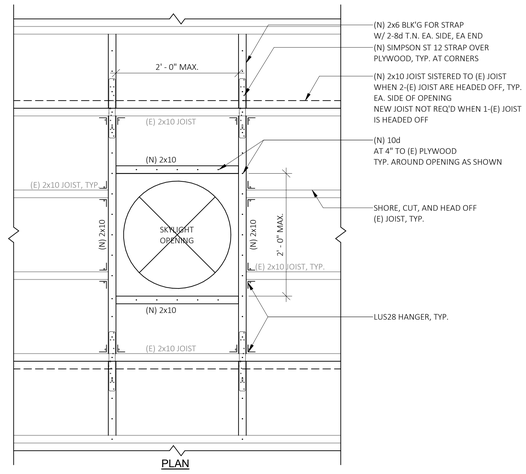


PLAN

NOTE:
BLK'G STRAP, AND E.N. ARE NOT REQUIRED
AT 6" DIA. OR LESS OPENING.

13 NEW OPENING BETWEEN (E) FRAMING

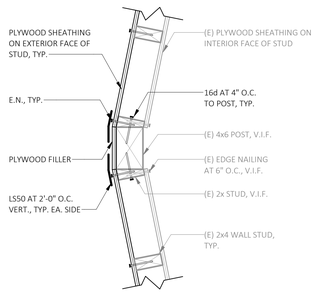
1" = 1'-0"



PLAN

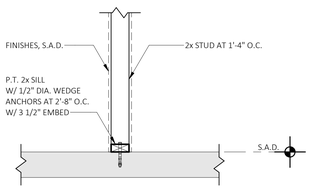
14 (N) OPENING BETWEEN (E) FRAMING

1" = 1'-0"



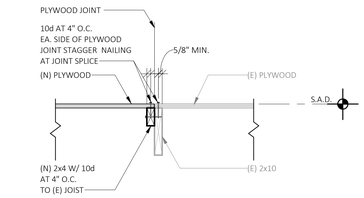
15 PLAN DETAIL AT POST IN SHEAR WALLS

1 1/2" = 1'-0"



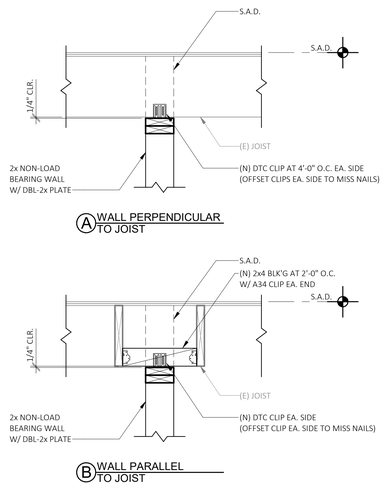
16 BOTTOM OF PARTITION WALL

1" = 1'-0"



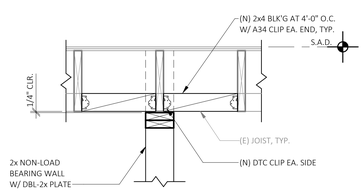
9 PLYWOOD JOINT SPLICE

1" = 1'-0"



A WALL PERPENDICULAR TO JOIST

B WALL PARALLEL TO JOIST

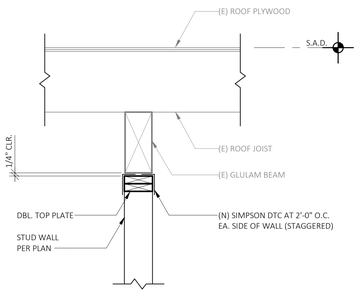


C WALL PARALLEL TO JOIST

NOTE:
ALLOW 1/16" GAP BETWEEN NAIL HEAD AND TRUSS CLIP TO HELP PREVENT SQUEAKING

11 TOP OF PARTITION WALL UNDER ROOF JOIST

1" = 1'-0"



12 TOP OF PARTITION WALL UNDER GLB

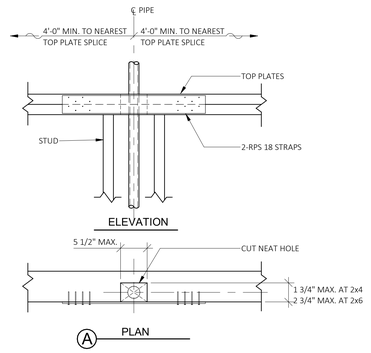
1" = 1'-0"

OPENING WIDTH "W"	EXTERIOR WALL (1), (2),(3)					INTERIOR WALL (1),(2),(3)			
	HDR SIZE	KING STUD	BEARING STUD LEVEL		FRAMING CLIPS	HDR SIZE	KING STUD	BEARING STUD LEVEL	
			2ND	1ST				2ND	1ST
4'-0"	S.W.x8	2xS.W.	2xS.W.	2xS.W.	NONE	4x8	2x4	2x4	2x4
5'-0"	S.W.x10	2xS.W.	2xS.W.	2xS.W.	A35	4x10	2x4	2x4	2-2x4
6'-0"	S.W.x10	2xS.W.	2xS.W.	2xS.W.	A35	4x10	2x4	2x4	2-2x4
8'-0"	S.W.x12	2-2xS.W.	2-2xS.W.	2-2xS.W.	A35	4x12	2x4	2x4	2-2x4

HEADER FRAMING SCHEDULE NOTES:
1. UNLESS OTHERWISE NOTED ON PLANS.
2. USE CBC TABLE 2304A.10.1 FOR OTHER NAILING REQUIREMENTS NOT NOTED.
3. SEE DETAIL 4/-.
4. "S.W." = STUD WIDTH.

5 WINDOW/DOOR FRAMING SCHEDULE

08-100-02
N.T.S.



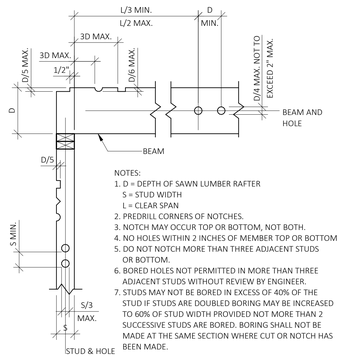
ELEVATION

A PLAN

NOTE:
NOT ALL NAILS SHOWN FOR CLARITY.

6 STRENGTHENING PENETRATION THROUGH BEARING OR SHEAR WALL

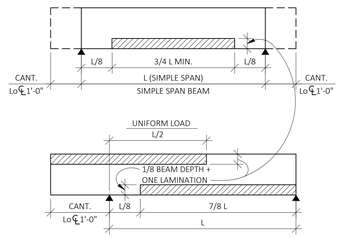
08-103-02
N.T.S.



NOTES:
1. D = DEPTH OF SAWN LUMBER RAFTER
   S = STUD WIDTH
   L = CLEAR SPAN
2. PREDRILL CORNERS OF NOTCHES.
3. NOTCH MAY OCCUR TOP OR BOTTOM, NOT BOTH.
4. NO HOLES WITHIN 2 INCHES OF MEMBER TOP OR BOTTOM
5. DO NOT NOTCH MORE THAN THREE ADJACENT STUDS OR BOTTOM.
6. BORED HOLES NOT PERMITTED IN MORE THAN THREE ADJACENT STUDS WITHOUT REVIEW BY ENGINEER.
7. STUDS MAY NOT BE BORED IN EXCESS OF 40% OF THE STUD IF STUDS ARE DOUBLED BORING MAY BE INCREASED TO 60% OF STUD WIDTH PROVIDED NOT MORE THAN 2 SUCCESSIVE STUDS ARE BORED. BORING SHALL NOT BE MADE AT THE SAME SECTION WHERE CUT OR NOTCH HAS BEEN MADE.

7 ALLOWABLE HOLES FOR STRUCTURAL SAWN LUMBER MEMBERS

08-103-01
N.T.S.

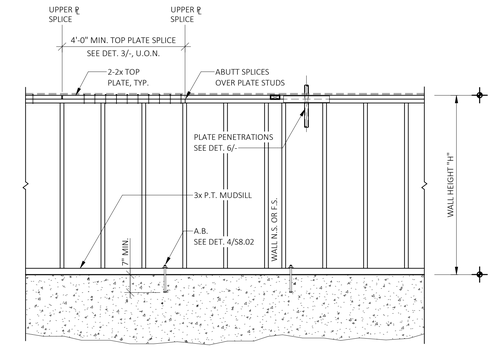


BEAM WITH ONE END CANTILEVERED

CROSS HATCHED AREA REPRESENTS THE PORTION OF THE BEAM REQUIRING 6" SPACING MINIMUM BETWEEN JOINT ENDS OF ADJACENT LAMINATIONS.

8 GLULAM BEAM LAMINATION SPLICE CRITERIA

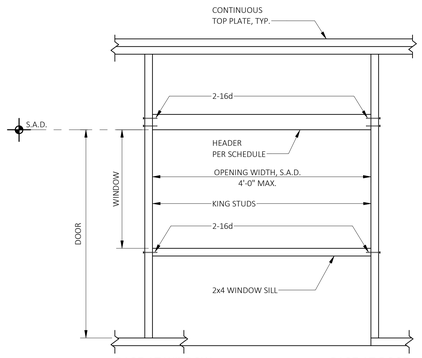
08-103-04
1" = 1'-0"



NOTES:
USE CBC TABLE 2304A.10.1 FOR OTHER NAILING REQUIREMENTS NOT NOTED.

1 BEARING OR SHEAR WALL FRAMING

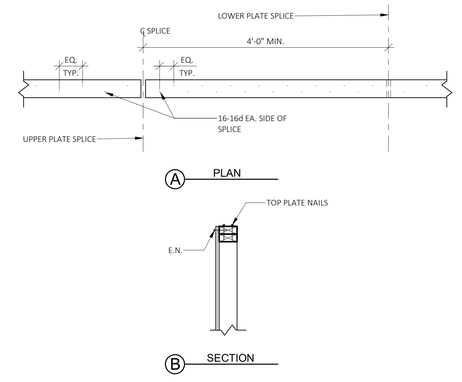
08-101-01
1/2" = 1'-0"



A BASE AT WINDOW B BASE AT DOOR

2 NON-STRUCTURAL INTERIOR WALL OPENING

08-101-09
N.T.S.

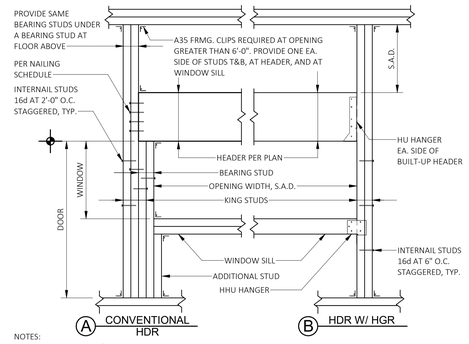


A PLAN

B SECTION

3 TOP PLATE SPLICE AT BEARING OR SHEAR WALLS

08-101-05
1" = 1'-0"



A CONVENTIONAL HDR B HDR W/ HGR

NOTES:
1. SEE SCHEDULE ON 5/- FOR STUD REQUIREMENT.
2. USE 1-2x BEARING STUD AT OPENING 4'-0" OR LESS, USE 2-2x BEARING STUD AT OPENING 4'-0" TO 6'-0". FOR OPENING GREATER THAN 6'-0", NOTIFY E.O.R.
3. FOR 2x4 WALLS USE A34 CLIPS.

4 TYPICAL FRAMING OPENINGS IN WALL

08-101-07
N.T.S.

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www.aedisarchitects.com
387 S. 1st Street, Suite 300
San Jose, CA 95113
tel: (408)-300-5160
fax: (408)-300-5121

PROJECT

LYDIKSEN ELEMENTARY SCHOOL MODERNIZATION

PLEASANTON UNIFIED SCHOOL DISTRICT

CONSULTANT

element structural engineers, inc.
39675 Cedar Blvd., Suite 295C
Newark, California 94560
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eFax: 973.924.0663
www.elementse.com

Digitally signed by Thuy Fontelera
Date: 2022.02.10 12:05:50-08'00'

STATE
DSA FILE NUMBER 1-32
APPL # 01-119816

REVISIONS

No.	Description	Date

MILESTONES

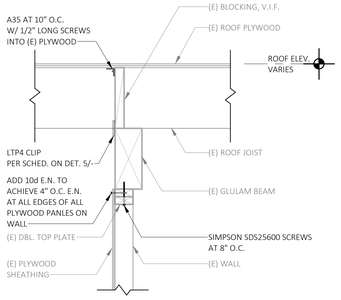
SD	06/15/2021
DD	08/23/2021
50% CD	09/14/2021
90% CD	10/14/2021
DSA SUB	10/19/2021

SHEET

WOOD DETAILS

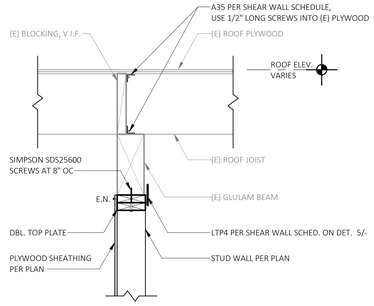
DATE 02/15/2022
JOB # ESE # 3388
SHEET # S8.01

NOTES:
1. AT SIM. CONDITION, WALL BELOW GLB DOES NOT OCCUR.
2. AT SIM. CONDITION, A35 TO PLYWOOD SPACED AT 1'-4" O.C.



13 TOP OF SHEAR WALL WITH (E) PLYWOOD

1" = 1'-0"



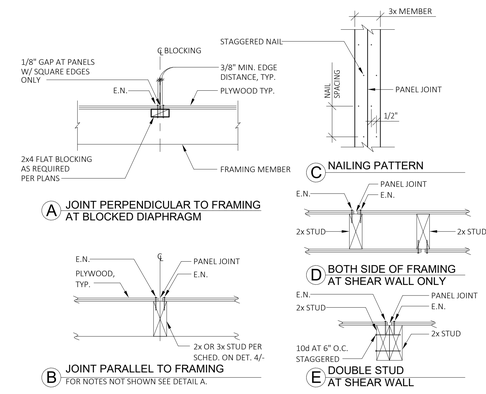
9 TOP OF SHEAR WALL DETAIL

1" = 1'-0"

MARK	NO. OF SIDES	EDGE NAIL 10d COMMON SHORTS (2 1/2"x0.148") SEE DETAIL 6C/- WHERE SPECIFIED AS STAGGERED	STUD WIDTH AT EDGE NAILING		SOLE PLATE OR TOP PLATE CONNECTIONS (EITHER NAILS OR SCREWS)		SHEAR CLIPS W/ 8d COMMON NAIL U.O.N.		MUDSILL ANCHORS, SEE DET. 8/-.	EPOXY ROD INTO CONCRETE AT RETROFIT CONDITION	ALLOWABLE SHEAR (plf)
			SIZE	DETAIL	16d SINKER NAILS	SDS 1/4x5	LTP4	A35	MUDSILL		
6	SINGLE	6"	2x	6B/-	6" O.C.	1'-6" O.C.	1'-6" O.C.	1'-10" O.C.	5/8" AT 4'-0"	AT 4'-0"	340
4	SINGLE	4"	2x	6B/-	4" O.C.	1'-0" O.C.	1'-0" O.C.	1'-2" O.C.	5/8" AT 2'-8"	AT 2'-8"	510
3	SINGLE	3" STAGGERED	2x	6B/-	3" O.C.	10" O.C.	10" O.C.	10" O.C.	5/8" AT 2'-0"	AT 2'-0"	665
2	SINGLE	2" STAGGERED	3x	6B/- or 6E/-	N/A	6" O.C.	6" O.C.	8" O.C.	5/8" AT 1'-6"	AT 1'-6"	870
6D	DOUBLE	6"	2x	6B/-	3" O.C.	10" O.C.	8" O.C.	10" O.C.	5/8" AT 2'-0"	AT 2'-0"	680
4D	DOUBLE	4"	3x	6B/- or 6D/-	N/A	6" O.C.	6" O.C.	6" O.C.	N/A	AT 1'-4"	1020

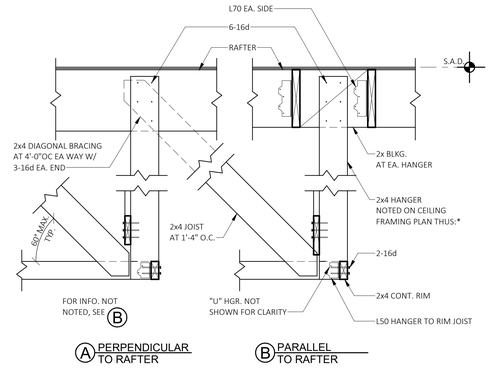
5 SHEAR WALL SCHEDULE - STRUCT 1 PLYWOOD

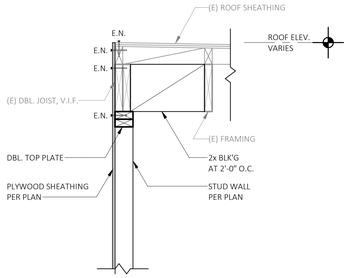
N.T.S.



1 TYPICAL CEILING/SOFFIT HANGER

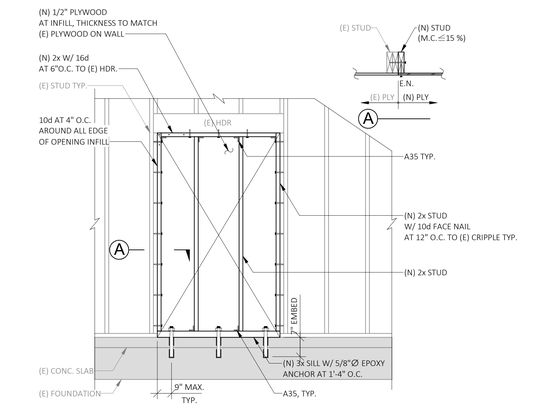
1" = 1'-0"





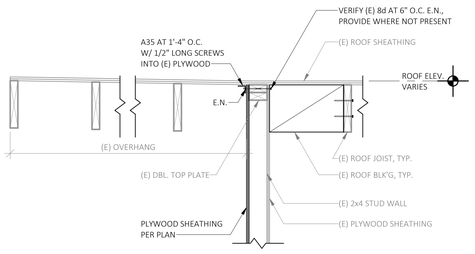
14 TOP OF SHEAR WALL AT (E) ROOF

1" = 1'-0"



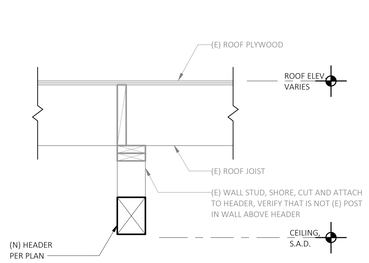
10 ELEVATION INFILL AT (E) DOOR OPENING

N.T.S.



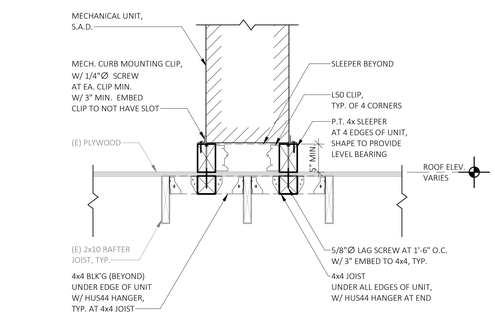
14 TOP OF SHEAR WALL AT (E) ROOF

1" = 1'-0"



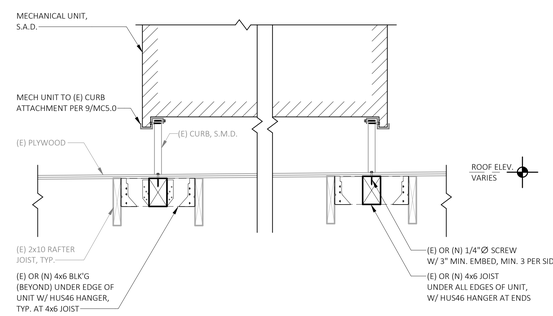
10 ELEVATION INFILL AT (E) DOOR OPENING

N.T.S.



15 TOP OF SHEAR WALL AT (E) ROOF

1" = 1'-0"



11 HEADER BEAM IN (E) WALL

1" = 1'-0"

16 HEAT PUMP TO SLEEPER CONNECTION

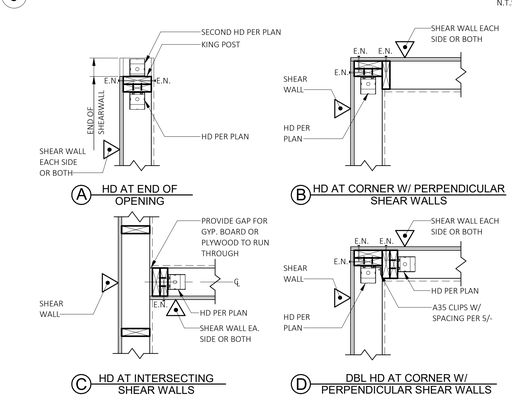
1" = 1'-0"

12 RTU UNIT TO SLEEPER CONNECTION

1" = 1'-0"

6 PLYWOOD NAILING

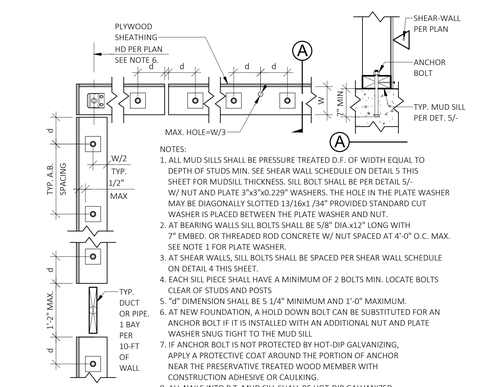
N.T.S.



7 SHEAR TRANSFER AND/OR HD LOCATION

08-204-07

1" = 1'-0"



NOTES:
1. ALL MUD SILLS SHALL BE PRESSURE TREATED D.F. OF WIDTH EQUAL TO DEPTH OF STUDS MIN. SEE SHEAR WALL SCHEDULE ON DETAIL 5 THIS SHEET FOR MUDSILL THICKNESS. SILL BOLT SHALL BE PER DETAIL 5/- W/ NUT AND PLATE 3"x3"x0.229" WASHERS. THE HOLE IN THE PLATE WASHER MAY BE DIAGONALLY SLOTTED 13/16x1 /34" PROVIDED STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND NUT.
2. AT BEARING WALLS SILL BOLTS SHALL BE 5/8" DIA.x12" LONG WITH 7" EMBED. OR THREADED ROD CONCRETE W/ NUT SPACED AT 4'-0" O.C. MAX. SEE NOTE 1 FOR PLATE WASHER.
3. AT SHEAR WALLS, SILL BOLTS SHALL BE SPACED PER SHEAR WALL SCHEDULE ON DETAIL 4 THIS SHEET.
4. EACH SILL PIECE SHALL HAVE A MINIMUM OF 2 BOLTS MIN. LOCATE BOLTS CLEAR OF STUDS AND POSTS
5. "d" DIMENSION SHALL BE 5 1/4" MINIMUM AND 1'-0" MAXIMUM.
6. AT NEW FOUNDATION, A HOLD DOWN BOLT CAN BE SUBSTITUTED FOR AN ANCHOR BOLT IF IT IS INSTALLED WITH AN ADDITIONAL NUT AND PLATE WASHER SNUG TIGHT TO THE MUD SILL
7. IF ANCHOR BOLT IS NOT PROTECTED BY HOT-DIP GALVANIZING, APPLY A PROTECTIVE COAT AROUND THE PORTION OF ANCHOR NEAR THE PRESERVATIVE TREATED WOOD MEMBER WITH CONSTRUCTION ADHESIVE OR CAULKING.
8. ALL NAILS INTO P.T. MUD SILL SHALL BE HOT-DIP GALVANIZED.

8 MUD SILL AND ANCHOR BOLT REQUIREMENTS

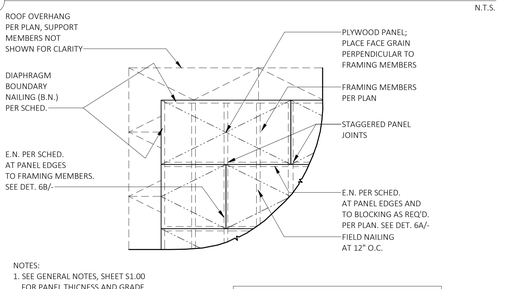
08-200-04

1" = 1'-0"

2 SHEAR WALL ELEVATION

08-200-05

N.T.S.

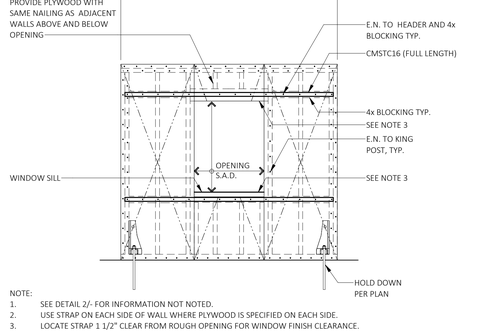


NOTES:
1. SEE GENERAL NOTES, SHEET S1.00 FOR PANEL THICNESS AND GRADE.
2. SEE FRAMING PLANS FOR SEPCIAL NAILING AND BLOCKING REQUIREMENTS.
3. INDIVIDUAL PANEL SHEETS SHALL BE A MINIMUM OF 4 FEETx8 FEET. EDGE PIECE SHALL NOT BE LESS THAN 2 FEET WIDE.
4. IF BLOCKING SPECIFIED AT FLOORS PANELS, TONGUE & GROOVE EDGES ARE NOT REQUIRED.

DIAPHRAGM NAILING SCHEDULE				
	NAIL SIZE	E.N.	B.N.	BLOCKING
ROOFS	8d COMMON	6" O.C.	6" O.C.	PER PLAN

3 ROOF OR FLOOR DIAPHRAGM

N.T.S.



NOTE:
1. SEE DETAIL 2/- FOR INFORMATION NOT NOTED.
2. USE STRAP ON EACH SIDE OF WALL WHERE PLYWOOD IS SPECIFIED ON EACH SIDE.
3. LOCATE STRAP 1 1/2" CLEAR FROM ROUGH OPENING FOR WINDOW FINISH CLEARANCE.

4 STRAPPED SHEAR WALL ELEVATION

08-200-06

N.T.S.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119816 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 02/25/2022

aedis architects
www.aedisarchitects.com
387 S. 1st Street, Suite 300
San Jose, CA 95113
tel: (408)-300-5160
fax: (408)-300-5121

PROJECT

LYDIKSEN ELEMENTARY SCHOOL MODERNIZATION

PLEASANTON UNIFIED SCHOOL DISTRICT

CONSULTANT

element structural engineers, inc.
39675 Cedar Blvd., Suite 295C
Newark, California 94560
Tel: 510.573.1557
eFax: 973.924.0663
www.elementse.com

Digitally signed by Thuy Fontelera
Date: 2022.02.10 12:06:01 -08'00'

Digitally signed by Thuy N. Fontelera
Date: 2022.02.16 13:26:11 -08'00'

STATE

DSA FILE NUMBER 1-32

APPL # 01-119816

REVISIONS

No.	Description	Date

MILESTONES

SD	06/15/2021
DD	08/23/2021
50% CD	09/14/2021
90% CD	10/14/2021
DSA SUB	10/19/2021

SHEET

WOOD DETAILS

DATE 02/15/2022

JOB # ESE # 3388

SHEET #

S8.02

2/16/2022 8:49:29 AM
C:\Users\yl\Documents\3388 Lydiksen_Rvt.20_ylVDB2D.rvt

MECHANICAL GENERAL NOTES

1. ENTIRE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE 2019 CALIFORNIA MECHANICAL CODE, 2019 CALIFORNIA BUILDING CODE, AND ALL OTHER APPLICABLE CODES AND REGULATIONS, INCLUDING 2019 CALIFORNIA ENERGY CONSERVATION STANDARDS DIVISION T-24.

2. 2019 CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE INCLUDING THE APPLICABLE MANDATORY MEASURES:

   a. COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION PER CALGREEN REQUIREMENTS.

   b. ADHESIVES, SEALANTS AND CAULKS SHALL MEET CALGREEN REQUIREMENTS.

   c. FILTERS SHALL BE A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 8 OR AS SPECIFIED.

   d. INSTALLATIONS OF HVAC AND REFRIGERATION EQUIPMENT SHALL COMPLY WITH SECTIONS 5.508.1.1 AND 5.508.1.2.

3. ENTIRE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE 2019 CALIFORNIA MECHANICAL CODE, 2019 CALIFORNIA BUILDING CODE, AND ALL OTHER APPLICABLE CODES AND REGULATIONS, INCLUDING 2019 CALIFORNIA ENERGY CONSERVATION STANDARDS DIVISION T-20.

4. COORDINATE ENTIRE INSTALLATION OF THE HVAC SYSTEM WITH THE WORK OF ALL OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. PROVIDE ALL FITTINGS, OFFSETS, AND TRANSITIONS AS REQUIRED FOR A COMPLETE WORKABLE INSTALLATION. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ITEMS TO BE PROVIDED BY OTHER TRADES WHERE MENTIONED IN THE CONTRACT DOCUMENTS PRIOR TO BID - NO EXCEPTIONS.

5. COORDINATE THE LOCATIONS OF ALL CEILING DIFFUSERS, REGISTERS, AND GRILLES WITH THE ARCHITECTURAL REFLECTIVE CEILING PLAN, ELECTRICAL LIGHTING LAYOUT AND ARCHITECTURAL ROOM ELEVATIONS. THE ARCHITECT AND ENGINEER SHALL BE IMMEDIATELY NOTIFIED OF ANY CONFLICTS PRIOR TO FABRICATION AND INSTALLATION.

6. CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER OF CONSTRUCTION PHASING PRIOR TO START OF CONSTRUCTION, REMOVAL, AND/OR REPLACEMENT OF ANY EQUIPMENT. CONTRACTOR SHALL RECEIVE PERMISSION IN WRITING PRIOR TO THE START OF ANY WORK DURING ANY PHASE FOR WORK SHOWN HEREIN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT WORK AND ARRANGE HIS WORK IN A MANNER THAT WILL CAUSE MINIMAL INTERFERENCE WITH DAILY FUNCTIONS WITHIN THE FACILITY. ANY EXPECTED DOWNTIME SHALL BE COORDINATED WITH THE OWNER.

7. ALL EQUIPMENT, DUCTS, PIPING, AND OTHER DEVICES AND MATERIALS INSTALLED OUTSIDE OF THE BUILDING OR OTHERWISE EXPOSED TO THE WEATHER SHALL BE COMPLETELY WEATHER-PROOFED AND PAINTED TO MATCH, COORDINATE WITH ARCHITECT PRIOR TO PAINTING.

8. THE OWNER ACKNOWLEDGES THAT THE DESIGN PROFESSIONAL'S PLANS AND SPECIFICATIONS ARE INSTRUMENTS OF PROFESSIONAL SERVICE. NEVERTHELESS, THE PLANS AND SPECIFICATIONS PREPARED UNDER THIS AGREEMENT SHALL BECOME THE PROPERTY OF THE OWNER UPON COMPLETION OF THE WORK. THE OWNER AGREES TO HOLD HARMLESS AND INDEMNIFY THE DESIGN PROFESSIONAL AGAINST ALL DAMAGES, CLAIMS AND LOSSES, INCLUDING DEFENSE COSTS, ARISING OUT OF ANY RESCUE OF THE PLANS AND SPECIFICATIONS WITHOUT THE WRITTEN AUTHORIZATION OF THE DESIGN PROFESSIONAL.

9. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH AND BE CONSIDERED TO BE PART OF A SEPARATE AND COMPLETE MECHANICAL SPECIFICATION.

10. ALL DIMENSIONS SHOWN ON THESE PLANS ARE APPROXIMATE AND MUST BE CONFIRMED ON SITE.

11. PRIOR TO OCCUPANCY, THE ENTIRE H.V.A.C. SYSTEMS SHALL BE BALANCED IN ACCORDANCE WITH (AABC) ASSOCIATED AIR BALANCE COUNCIL STANDARDS BY AN INDEPENDENT AIR BALANCE CONTRACTOR. CERTIFICATION SHALL BE PROVIDED BY THE CONTRACTOR FOR AIR AND HYDRONIC AS APPLICABLE. SYSTEMS SHALL BE BALANCED AS INDICATED ON PLANS INCLUDING FRESH AIR VENTILATION. WHERE THERE IS A CONFLICT WITH THE MECHANICAL PLANS, THE AIR BALANCE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO BALANCING OF SYSTEM. IF NOT THE AIR BALANCE CONTRACTOR SHALL BEAR ALL COSTS INCURRED FOR WORK THAT MUST BE RE-BALANCED DUE TO CONFLICTS ON CONTRACT DOCUMENTS. CONTRACTOR SHALL PROVIDE THREE COPIES OF THE AIR BALANCE REPORT TO THE ENGINEER FOR APPROVAL.

12. 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 THAT THEY ARE LOCATED IN. MINIMUM ACCESS PANEL SIZES SHALL BE AS FOLLOWS:

    a. HAND ACCESS: 12"x12"

    b. BODY ACCESS: 30"x30" MIN. WHERE A LARGER ACCESS SIZE IS REQUIRED DUE TO INSTALLATION CONSTRAINTS, THE CONTRACTOR SHALL DO SO AT NO ADDITIONAL COST AND SHALL NOTIFY THE ARCHITECT AND ENGINEER OF DEVIATIONS PRIOR TO INSTALLATION.

13. ALL EQUIPMENT, ACCESSORIES, AND RELATED PIPING SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL FITTINGS, TRANSITIONS, DAMPERS, VALVES, AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.

14. MAINTENANCE LABEL SHALL BE AFFIXED TO ALL MECHANICAL EQUIPMENT AND A MAINTENANCE MANUAL SHALL BE PROVIDED FOR THE OWNER'S USE.

15. PROVIDE 30% MIN. EFFICIENCY THROWAWAY FILTERS FOR ALL AIR CONDITIONING UNITS. SEE EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR TYPE. SIZES SHALL BE AS RECOMMENDED BY THE MANUFACTURER, UNLESS OTHERWISE SPECIFIED.

16. AIR FILTERS SHALL BE STATE FIRE MARSHALL APPROVED AND LISTED. PREFORMED FILTERS HAVING COMBUSTIBLE FRAMING SHALL BE TESTED AS A COMPLETE ASSEMBLY. AIR FILTERS SHALL BE ACCESSIBLE FOR CLEANING OR REPLACEMENT.

17. ALL EQUIPMENT WITH MOVING PARTS SHALL BE PROVIDED WITH FLEXIBLE DUCT AND PIPE CONNECTIONS.

18. ALL EQUIPMENT SHALL BE LABELED AS TO THE SPACE IT SERVES. SEE PLANS AND SPECIFICATIONS FOR IDENTIFICATION STANDARDS.

19. ALL HVAC EQUIPMENT SHALL BE CERTIFIED BY THE CALIFORNIA ENERGY COMMISSION TO COMPLY WITH LATEST EFFICIENCY STANDARDS.

20. ALL FRESH AIR INTAKES SHALL MEET CODE REQUIRED CLEARANCES FROM 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.

21. ALL AIR HANDLING EQUIPMENT SERVING CONDITIONED SPACES SHALL PROVIDE CONTINUOUS FRESH AIR TO SPACES IN OCCUPIED MODE.

22. CONTRACTOR SHALL VERIFY ALL CLEARANCES AND AVAILABLE SPACE FOR DUCTWORK PRIOR TO ORDERING AND/OR FABRICATING MATERIAL.

23. CONTRACTOR TO SUBMIT ALL EQUIPMENT, DUCTWORK, AIR DISTRIBUTION DEVICES, AND OTHER ACCESSORIES TO THE ENGINEER FOR APPROVAL PRIOR TO ANY ORDERING OF SUCH ITEMS.

24. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS WITHIN 45 DAYS OF AWARD OF CONTRACT. IF SHOP DRAWINGS ARE NOT PROVIDED TO THE ENGINEER FOR APPROVAL, AND ANY CONFLICTS OCCUR BETWEEN TRADES, DURING CONSTRUCTION, & ETC. THEN THE CONTRACTOR SHALL BE RESPONSIBLE AND BEAR ALL COST INCURRED FOR ANY REVISIONS AT NO ADDITIONAL COST TO THE OWNER. THE OWNER AND ENGINEER SHALL BE NOTIFIED IMMEDIATELY PRIOR TO FABRICATION AND INSTALLATION OF ANY CONFLICTS BETWEEN TRADES, DURING CONSTRUCTION, & ETC.

25. CONTRACTOR SHALL BE RESPONSIBLE FOR COMMISSIONING OF EQUIPMENT AS STIPULATED ON MECH-1-C FORM ON PLANS UNLESS NOTED OTHERWISE.

26. PAINT EXPOSED SURFACES, 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 OWNER'S REPRESENTATIVE WILL SELECT FROM STANDARD COLORS OR FINISHES AVAILABLE.

    1) 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 AND ELECTRICAL EQUIPMENT.

----- CONTROLS -----

27. CONTROL SCHEMATICS ARE FOR SEQUENCE ONLY. REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ALL ELECTRICAL DEVICES REQUIRED.

28. ALL LINE VOLTAGE WIRING SHALL BE INSTALLED IN CONDUIT. ALL LINE VOLTAGE CONDUIT AND WIRING, INCLUDING FINAL CONNECTIONS, SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR AS INDICATED ON THE ELECTRICAL DRAWINGS OR SPECIFIED IN THE ELECTRICAL SECTION OF THE SPECIFICATIONS. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS OF ALL GOVERNING BODIES HAVING JURISDICTION THEREOF.

29. ALL LOW VOLTAGE CONDUIT AND WIRING AS APPLICABLE, INCLUDING FINAL CONNECTIONS, SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR AS INDICATED ON THE MECHANICAL DRAWINGS OR SPECIFIED IN THE MECHANICAL SECTION OF THE SPECIFICATIONS.

    A1) ALL LOW VOLTAGE WIRING SHALL BE INSTALLED IN CONDUIT.

    A2) ALL LOW VOLTAGE WIRING SHALL BE PLENUM - RATED.

    B) WHERE THE CONTROLS CONTRACTOR IS RETAINED BY THE OWNER, THEY SHALL BE RESPONSIBLE FOR THE FOLLOWING:

    1) FURNISH AND INSTALL ALL DEVICES, WIRING, AND TERMINATIONS REQUIRED FOR A COMPLETE AND FUNCTIONAL INSTALLATION.

    2) COORDINATE ALL WORK AND REQUIREMENTS WITH OTHER TRADES INCLUDING GENERAL, MECHANICAL, AND ELECTRICAL CONTRACTORS PRIOR TO BID.

    3) CONTRACTOR SHALL FOLLOW ALL SUBMITTAL REQUIREMENTS PER DRAWINGS AND SPECIFICATIONS.

30. CONTRACTOR SHALL BE RESPONSIBLE FOR ORDERING AIR CONDITIONING EQUIPMENT WITH THRU-THE-BASE POWER, CONTROL, AND GAS CONNECTIONS. VERIFY ALL CONNECTION LOCATIONS WITH UNIT MANUFACTURER AND COORDINATE WITH OTHER TRADES AS NECESSARY.

31. ALL THERMOSTATS SHALL HAVE LOCKABLE COVERS (WHERE INDICATED ON PLANS) AND SHALL BE OF THE ELECTRONIC, PROGRAMMABLE, AUTOMATIC CHANGEOVER TYPE TO SEQUENCE HEATING OR COOLING. SET POINT RANGE SHALL BE 10 DEGREES F. BETWEEN FULL HEATING AND COOLING. THEY SHALL HAVE CAPABILITY OF TERMINATING ALL HEATING AT A TEMPERATURE NO MORE THAN 70 DEGREES F., AND COOLING AT A TEMPERATURE NOT LESS THAN 78 DEGREES F. ADJUSTABLE TEMPERATURE DIFFERENTIAL SHALL BE 1- 1/2 DEGREES F. CONTROL LIMITS SHALL BE FROM 55 DEGREES F. TO 85 DEGREES F. MOUNT AT 48 INCHES ABOVE FLOOR OR AS REQUIRED BY LOCAL AUTHORITIES OR HANDICAP CODES.

    NOTES: 1) THERMOSTATS THAT ARE PART OF AN ENERGY MANAGEMENT SYSTEM SHALL FOLLOW CONTROL SPECIFICATIONS AND DRAWING REQUIREMENTS.

    2) SHOULD THE LOCATION OF THE THERMOSTAT NOT MEET THE ADA HEIGHT REQUIREMENTS DUE TO OBSTRUCTIONS, THEN AN ALTERNATE LOCATION SHALL BE PROPOSED OR REQUESTED BY THE CONTRACTOR THAT SHALL BE APPROVED BY THE ENGINEER AND ARCHITECT.

32. LINE VOLTAGE THERMOSTATS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

33. CONTROLS CONTRACTOR AND AIR BALANCE CONTRACTOR SHALL COORDINATE WORK AND PERFORM NECESSARY TASKS AS REQUIRED TO OBTAIN AIR AND WATER FLOW QUANTITIES FOR SYSTEMS SHOWN HEREIN.

34. CONTROLS SHALL BE PROVIDED TO PROVIDE THE MINIMUM RATE OF OUTDOOR AIR REQUIRED BY THE STATE ENERGY REGULATIONS.

----- AIR DISTRIBUTION -----

35. ALL DUCTWORK SHALL BE SHEET METAL CONSTRUCTED OR SPIRAL, ERECTED, AND TESTED IN ACCORDANCE WITH THE MOST RESTRICTIVE OF LOCAL REGULATIONS, PROCEDURES DETAILED IN THE ASHRAE HANDBOOK OF FUNDAMENTALS, CHAPTER 6 OF THE MECHANICAL CODE, OR THE APPLICABLE STANDARDS ADOPTED BY THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION.

36. ALL FLEXIBLE DUCTWORK SHALL NOT EXCEED 5 FEET IN LENGTH TO RESPECTIVE DIFFUSERS, GRILLES, AND REGISTERS, OR OTHER AIR DEVICES.

37. PROVIDE SEISMIC RESTRAINTS TO ALL DUCTWORK, PIPE, AND EQUIPMENT SUPPORTS IN ACCORDANCE WITH THE LATEST SMACNA GUIDELINES FOR SEISMIC RESTRAINT OF MECHANICAL SYSTEMS. SUSPENDED EQUIPMENT SHALL BE PROVIDED WITH SEISMIC ANCHORAGE AND ISOLATION SUPPORTS.

38. ALL DUCT TURNS IN SUPPLY, RETURN, AND EXHAUST DUCTS SHALL HAVE TURNING VANES UNLESS OTHERWISE NOTED.

39. DUCTWORK HANDLING CONDITIONED AIR SHALL BE INSULATED OR LINED AS INDICATED ON DRAWINGS. SUPPLY AND RETURN DUCT INSULATION SHALL BE MIN. 1.5" THICK, 3/4 LB./CUBIC FT. DENSITY AND HAVE A MIN. VALUE OF R-8 WHERE LOCATED IN ONE OR MORE OF THE FOLLOWING SPACES:

    A) OUTDOORS, OR

    B) IN A SPACE BETWEEN THE ROOF AND AN INSULATED CEILING, OR

    C) IN A SPACE DIRECTLY UNDER A ROOF WITH FIXED VENTS OR OPENINGS TO THE OUTSIDE OR UNCONDITIONED SPACES, OR

    D) IN AN UNCONDITIONED CRAWLSPACE; OR

    E) IN OTHER UNCONDITIONED SPACES

    OTHERWISE PROVIDE R-8 WHEN LOCATED IN CONDITIONED ATTIC SPACES ABOVE CEILINGS . ALL DUCTWORK EXPOSED ON ROOF SHALL BE INTERNALLY LINED WITH 1.5" THICK, 1.5LB./CUBIC FT. DENSITY DUCT LINER UNLESS OTHERWISE INDICATED OR SPECIFIED. ALL DUCT SIZES ARE NET CLEAR INSIDE DIMENSIONS. ALL DUCT JOINTS SHALL BE SEALED PER CHAPTER 6 MECHANICAL CODE REQUIREMENTS. PROVIDE PIPING AND DUCT INSULATION IN ACCORDANCE WITH THE LATEST STANDARDS OF THE CALIFORNIA ENERGY COMMISSION.

40. ALL INSULATION SHALL HAVE A FLAME SPREAD OF NOT MORE THAN 25 AND A SMOKE DENSITY NOT EXCEEDING 50.

41. MANUAL VOLUME DAMPERS SHALL BE PROVIDED IN ALL DUCT BRANCHES TO INDIVIDUAL DIFFUSERS, GRILLES, AND REGISTERS, AS WELL AS FRESH AIR INTAKE DUCTS. DAMPERS SHALL BE LOCATED AT THE BRANCH DUCT LOCATIONS. THE MECHANICAL CONTRACTOR SHALL COORDINATE LOCATIONS OF DAMPERS WITH THE AIR BALANCE CONTRACTOR PRIOR TO BID, SO THEY ARE ACCESSIBLE PRIOR TO INSTALLATION. IN LOCATIONS WHERE THESE DAMPERS ARE INACCESSIBLE, CABLE OPERATED ADJUSTMENT CONTROLS SHALL BE PROVIDED AT NO ADDITIONAL COST. OPPOSED BLADE DAMPERS SHALL NOT BE PERMITTED UNLESS NOTED OTHERWISE.

42. AUTOMATIC FIRE DAMPER REQUIREMENTS ARE AS FOLLOWS:

    A) PROVIDE AUTOMATIC FIRE DAMPERS AT ALL PENETRATIONS OF FIRE-RATED CEILINGS AND WALLS THROUGHOUT. CONTRACTOR SHALL COORDINATE FIRE-RATED AREAS WITH THE ARCHITECTURAL DRAWINGS AND OTHER TRADES PRIOR TO INSTALL AND SHALL NOTIFY PERTINENT PARTIES PRIOR TO ANY WORK PERFORMED IN THESE AREAS. IN ADDITION, CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE PROPER ACCESS FOR DAMPERS INSTALLED. THE DAMPER FIRE RATING SHALL BE COMPATIBLE WITH THE CEILING/WALL RATING.

    B) LOCATION OF FIRE-RATED CEILINGS AND WALLS ARE AS INDICATED ON THE ARCHITECTURAL DRAWINGS.

    C) FIRE AND/OR SMOKE DAMPER(S) SHALL BE PROVIDED AS REQUIRED BY THE LATEST UNIFORM/CALIFORNIA BUILDING CODE.

    D) CONTRACTOR SHALL FURNISH FLUSH MOUNTED FIRE AND/OR SMOKE DAMPERS, SO THAT DAMPER DO NOT EXTEND PASS WALLS, FOR AREAS WITHOUT CEILINGS FOR QUALITY WORKMANSHIP.

43. ALL DUCTWORK PASSING THROUGH FIRE RATED CORRIDORS AND LOBBIES SHALL BE MIN. 26 GAGE SHEET METAL CONSTRUCTION.

44. ALL DUCTWORK, PIPING, CONDUIT, & ETC. PENETRATING FIRE RATED CONSTRUCTION SHALL HAVE APPROVED FIRE STOPPING.

45. ALL DUCTWORK FROM THE UNIT TO TEN FEET IN LENGTH SHALL BE MIN. 20 GA. THESE SPECIFIED GAGES SHALL SUPERSEDE ANY LESSER GAGES INDICATED IN THE PLANS AND SPECIFICATIONS.

---- EXISTING CONDITIONS ----

46. BEFORE BIDDING ON THIS WORK, THE CONTRACTOR SHALL MAKE A CAREFUL EXAMINATION OF THE PREMISES, EXISTING EQUIPMENT AND SERVICES. HE SHALL DEFINITELY DETERMINE IN ADVANCE, THE METHODS OF INSTALLING AND CONNECTING THE NEW EQUIPMENT, DUCTWORK, AND PIPING THE MEANS TO BE PROVIDED FOR GETTING THE EQUIPMENT AND MATERIALS INTO PLACE AND SHALL MAKE HIMSELF THOROUGHLY FAMILIAR WITH ALL OF THE REQUIREMENTS OF THE PROJECT. FAILURE TO VISIT THE SITE WILL IN NO WAY RELIEVE THE SUCCESSFUL CONTRACTOR OF THE NECESSITY OF FURNISHING ANY MATERIAL OR PERFORMING ANY WORK THAT MAY BE REQUIRED TO COMPLETE THE WORK IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. THIS ADDITIONAL SHALL BE PERFORMED WITHOUT ADDITIONAL COST TO THE OWNER.

47. CONTRACTOR SHALL VERIFY PRIOR TO CONSTRUCTION THE CONDITION OF EXISTING EQUIPMENT, DUCTWORK, ASSOCIATED CONTROLS, AND T-STATS. SHOULD ANY OF THESE ITEMS NOT BE PERFORMING SATISFACTORILY OR MALFUNCTIONING, CONTRACTOR SHALL NOTIFY TENANT AND/OR OWNER AND PROVIDE A COST TO ENSURE PROPER OPERATION PRIOR TO COMPLETION OF WORK.

48. BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS AND DIMENSIONS OF ALL EXISTING EQUIPMENT AND ELECTRICAL SERVICES IN THE AREA OF CONSTRUCTION AND NOTIFY THE ENGINEER AND ARCHITECT OF ANY DISCREPANCIES.

49. ALL CONNECTIONS AND DISCONNECTIONS TO EXISTING EQUIPMENT SHALL BE MADE IN SUCH A MANNER THAT INTERRUPTION TIME SHALL BE KEPT TO A MINIMUM. THE CONTRACTOR SHALL GIVE THE OWNER'S REPRESENTATIVE SUFFICIENT NOTICE OF SUCH INTERRUPTION AND THE ACTUAL SHUTDOWN TIME SHALL BE AT A TIME DESIGNATED BY THE OWNER'S REPRESENTATIVE.

LEGEND

SYMBOL	ABBR.	DESCRIPTION
	-	SUPPLY AIR RISER
	-	RETURN AIR RISER
	-	EXHAUST AIR RISER
	SAG	SUPPLY AIR GRILLE
	RAG	RETURN AIR GRILLE
	EAG	EXHAUST AIR GRILLE
	SWR	SIDEWALL REGISTER
	(L)	LINED DUCTWORK
	-	FLEXIBLE CONNECTION
	FC	FLEXIBLE CONNECTION
	-	NEW DUCT (SEE PLAN)
	-	EXISTING DUCT (SEE PLAN)
	-	DEMO DUCT (SEE PLAN)
	MVD	MANUAL VOLUME DAMPER
	BDD	BACKDRAFT DAMPER
S/F	SFD	SMOKE / FIRE DAMPER
F	FD	FIRE DAMPER
	DL	DOOR LOUVER
U.C.	UC	UNDERCUT DOOR 3/4"
RS	RS	REFRIGERANT SUCTION LINE
RL	RL	REFRIGERANT LIQUID LINE
CD	CD	CONDENSATE DRAIN
	S.D.	SMOKE DETECTOR
	P.O.C.	POINT OF CONNECTION
T	T-STAT	THERMOSTAT
H	H	HUMIDISTAT
TS	TS	TEMPERATURE SENSOR
OS	OS	OVERRIDE SWITCH
PD	PD	PRESSURE DIFFERENTIAL SWITCH
S	S	SWITCH
	O.C.	ON CENTER
	HWR	HOT-WATER RETURN
	HWS	HOT-WATER SUPPLY
	I.D.	INSIDE DIAMETER
	O.D.	OUTSIDE DIAMETER
	W/	WITH
	S/M	SHEET METAL
	S/S	STAINLESS STEEL
	G.C.	GENERAL CONTRACTOR
	VTR	VENT THRU ROOF
	EMS	ENERGY MANAGEMENT SYSTEM
	OBD	OPPOSED BLADE DAMPER
	FSC	FAN SPEED CONTROL
E	E	ITEMS FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR AS SPECIFIED ON THE ELECTRICAL CONTRACT DOCUMENTS
M	M	ITEMS FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR AS SPECIFIED ON THE MECHANICAL CONTRACT DOCUMENTS
EM	EM	ITEMS FURNISHED BY ELECTRICAL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR.
ME	ME	ITEMS FURNISHED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR.
CC	C.C.	CONTROLS CONTRACTOR
	CBD	COUNTER-BALANCE DAMPER
DS	D.S.	DOOR SWITCH

MECHANICAL SHEET LIST

Sheet Number	Sheet Title
MC0.1	MECHANICAL GENERAL NOTES AND LEGEND
MC0.2	MECHANICAL SCHEDULES
MDC2.0	MECHANICAL - BUILDING C - DEMOLITION FLOOR PLAN
MDC3.0	MECHANICAL - BUILDING C - DEMOLITION - ROOF PLAN
MC2.0	MECHANICAL - BUILDING C - NEW FLOOR PLAN
MC3.0	MECHANICAL - BUILDING C - NEW ROOF PLAN
ME2.0	MECHANICAL - PARTIAL BUILDING E - FLOOR PLANS
MC4.0	MECHANICAL INTERIOR ELEVATIONS
MC5.0	MECHANICAL DETAILS
MC5.1	MECHANICAL DETAILS
MC6.0	MECHANICAL CONTROLS
M8.0	TITLE 24 COMPLIANCE REPORT
M8.1	TITLE 24 COMPLIANCE REPORT

APPLICABLE CODES AND STANDARDS

PARTIAL LIST OF APPLICABLE CODES AS OF January 1, 2020*
2019 California Administrative Code (CAC), Part 1, Title 24 CCR* FOR
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
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

PARTIAL LIST OF APPLICABLE STANDARDS
NFPA 13 - Standard for the Installation of Sprinkler Systems (CA amended)......................2016 Edition
NFPA 14 - Standard for the Installation of Standpipe and Hose Systems (CA amended)....2016 Edition
NFPA 17 - Standard for Dry Chemical Extinguishing Systems..2017 Edition
NFPA 17A - Standard for Wet Chemical Extinguishing Systems..2017 Edition
NFPA 20 - Standard for the Installation of Stationary Pumps for Fire Protection.................2016 Edition
NFPA 22 - Standard for Water Tanks for Private Fire Protection...2013 Edition
NFPA 24 - Standard for the Installation of Private Fire Service Mains and
Their Appurtenances (CA amended)...2016 Edition
NFPA 72 - National Fire Alarm and Signaling Code (CA amended)....................................2016 Edition
NFPA 80 - Standard for Fire Doors and Other Opening Protectives....................................2016 Edition
NFPA 2001 - Standard on Clean Agent Fire Extinguishing Systems (CA amended)............2015 Edition
UL 300 - Standard for Fire Testing of Fire Extinguishing Systems for
Protection of Commercial Cooking Equipment...2005 (R2010)
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 (R2010)
ICC 300 - Standard for Bleachers, Folding and Telescopic 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.

*All parts of the 2019 California Building Code become effective January 1, 2020 except the effective date for the use of the 2019 Building Energy Efficiency Standards (Title 24, Part 1, Chapter 10) is January 8, 2019 and the effective date for the use of the California Administrative Code (Title 24, Part 1, Chapter 4) is January 8, 2019.

SEISMIC NOTES

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 ELECTRICITY, 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.

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

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

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

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 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTIONS 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 FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE 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 AND DETAILS.

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
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PROJECT

LYDIKSEN ELEMENTARY SCHOOL MODERNIZATION

PLEASANTON UNIFIED SCHOOL DISTRICT

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
ABBY BANERJEE
No. M29253
Exp. 6/30/23
MECHANICAL
STATE OF CALIFORNIA

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STAMP

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DSA FILE NUMBER 1-32
APPL # 01-119816

REVISIONS

MILESTONES

SD	06/21/2021
DD	
50% CD	09/20/2021
90% CD	10/14/2021
DSA SUB	10/19/2021

SHEET

MECHANICAL GENERAL NOTES AND LEGEND

DATE 10/19/2021

JOB # 2020029.02

SHEET # MC0.1

ROOFTOP PACKAGED GAS A/C UNIT SCHEDULE

SYM	MFR & MODEL #	AREA SERVICED	DISCHARGE TYPE	TONNAGE	COOLING CAPACITY (MBH) TOTAL	COOLING CAPACITY (MBH) SENSIBLE	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	ARI SEER	HEATING CAPACITY (MBH) INPUT	HEATING CAPACITY (MBH) OUTPUT	EAT DB (°F)	LAT DB (°F)	CFM	OSA CFM	ESP	ELECTRICAL V	ELECTRICAL PH	ELECTRICAL FLA	ELECTRICAL MCA	ELECTRICAL MOCP	UNIT WT.	(E) CURB WT.	P.E./ ECON. WT.	TOTAL WT.	LIFE SAFETY REQUIREMENT	REMARK	ANCHORAGE DETAIL
RTU C1	YORK ZE048K07B4A1AAA1A2	SEE PLAN	HORIZONTAL	4	50.80	36.70	80.0	67.0	58.8	56.9	14.0	75.0	59.0	60.0	94.1	1600	480	1.25	460	3	9.4	11	15	658	92	50	800	CARBON MONOXIDE DETECTION	1,2,3,4,5,6,8,9,10	9/MC5.0
RTU C2	YORK ZE048K07B4A1AAA1A2	SEE PLAN	HORIZONTAL	4	50.80	36.70	80.0	67.0	58.8	56.9	14.0	75.0	59.0	60.0	94.1	1600	480	1.25	460	3	9.4	11	15	658	92	50	800	CARBON MONOXIDE DETECTION	1,2,3,4,5,6,8,9,10	9/MC5.0
RTU C3	YORK ZE036K05D4A1AAA1A2	SEE PLAN	HORIZONTAL	3	36.90	27.10	80.0	67.0	59.1	57.3	14.0	50.0	40.0	60.0	90.9	1200	480	1.25	460	3	9.0	10.5	15	520	92	50	662	CARBON MONOXIDE DETECTION	1,2,3,4,5,6,8,9,10	9/MC5.0
RTU C4	YORK ZE036K05D4A1AAA1A2	SEE PLAN	HORIZONTAL	3	36.90	27.10	80.0	67.0	59.1	57.3	14.0	50.0	40.0	60.0	90.9	1200	480	1.25	460	3	9.0	10.5	15	520	92	50	662	CARBON MONOXIDE DETECTION	1,2,3,4,5,6,8,9,10	9/MC5.0
RTU C5	YORK ZE060K10D4A1AAA1A2	SEE PLAN	HORIZONTAL	5	53.00	46.90	80.0	67.0	62.6	60.5	14.0	100.0	80.0	60.0	89.6	2500	480	1.25	460	3	15.1	15.1	20	702	92	50	844	CARBON MONOXIDE DETECTION	1,2,3,4,5,6,7,8,9,10	9/MC5.0
RTU C6	YORK ZE036K05D4A1AAA1A2	SEE PLAN	HORIZONTAL	3	36.90	27.10	80.0	67.0	59.1	57.3	14.0	50.0	40.0	60.0	90.9	1200	480	1.25	460	3	9.0	10.5	15	520	92	50	662	CARBON MONOXIDE DETECTION	1,2,3,4,5,6,8,9,10	9/MC5.0
RTU C7	YORK ZE048K07B4A1AAA1A2	SEE PLAN	HORIZONTAL	4	50.80	36.70	80.0	67.0	58.8	56.9	14.0	75.0	59.0	60.0	94.1	1600	480	1.25	460	3	9.4	11	15	658	92	50	800	CARBON MONOXIDE DETECTION	1,2,3,4,5,6,8,9,10	9/MC5.0

REMARKS
1. PROVIDE CORROSION RESISTANT COILS FOR CONDENSER.
2. PROVIDE STAINLESS STEEL HEAT EXCHANGER
3. PROVIDE CORROSION RESISTANT DRAIN PAN.
4. PROVIDE ELECTRO-MECHANICAL INTERFACE.
5. PROVIDE MERV 13 FILTERS.
6. PROVIDE HIGH STATIC MOTOR.
7. PROVIDE DUCT SMOKE DETECTOR TO SHUT DOWN UNIT UPON DETECTION AND SEND SIGNAL TO BLDG. FIRE ALARM PANEL. DUCT SMOKE DETECTOR AND WIRING TERMINATION BY ELECTRICAL AND INSTALLED BY MECHANICAL..
8. PROVIDE 100% DRY-BULB MODULATED ECONOMIZER
9. PROVIDE LOW NOx, LOW AMBIENT KIT AND HAIL GUARD.
10. PROVIDE PELICAN THERMOSTAT TS250H WITH HUMIDITY AND CO2 SENSOR. PROVIDE PELICAN PEARL CONTROLS FOR ECONOMIZER. REPLACE OR BY-PASS EXISTING FACTORY ECONOMIZER CONTROLS TO INSTALL PELICAN CONTROLS. COORDINATE WITH PELICAN CONTROLS AND RTU MANUFACTURE FOR ALL COMPONENETS AND ACCESSORIES PRIOR TO ORDER. PROVIDE ALL COMPONANTS AND ACCESSORIES FOR FULLY FUNCTION SYSTEM.

NOTES:
A. AREAS WITH UNIT SUPPLYING MORE THAN 2,000 CFM SHALL BE EQUIPPED WITH DUCT SMOKE DETECTION SYSTEM. THE SYSTEM SHALL SHUT DOWN UNIT(S) IN THAT COVERED AREA AND SEND A SIGNAL TO THE BUILDING FIRE ALARM PANEL PER SECTION 609 OF THE CMC. SEE FIRE ALARM DRAWINGS FOR COMPLETE WIRING AND UNIT SHUT-DOWN SEQUENCE.
B. CONTRACTOR SHALL COORDINATE WITH THE A/C UNIT MFR. FOR ALL REQUIRED ACCESSORIES FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM AND INSTALLATION PRIOR TO FINAL BID.
C. ALL UNITS SHALL BE EQUIPPED WITH PREMIUM EFFICIENCY MOTORS.
D. EXISTING UNITS HAVE WEIGHT AS FOLLOWS -
B-102 (RTU-C7), B-103 (RTU-C1), B-104 (RTU-C2) - 670 LBS
B-105 (RTU-C3), B-106 (RTU-C4), B-101 (RTU-C6) - 625 LBS
B-110 & B-114 (RTU-C5) - 705 LBS
(E) ECONOMIZER WEIGHT = 50 LBS PER EACH UNIT
(E) CURB WEIGHT=92 LBS

HEAT PUMP UNIT SCHEDULE

SYM	MFR & MODEL #	AREA SERVICED	COOLING CAPACITY	HEATING CAPACITY	SEER/ EER	ELECTRICAL V	ELECTRICAL PH	ELECTRICAL FLA	ELECTRICAL MCA	ELECTRICAL MOP	WT	INTERLOCK WITH	ANCHORAGE DETAIL	REMARKS
HP 1	CARRIER 38MARBQ09AA3	SPEECH 1	9,000	11,800	20.5/ 13.0	208/230	1	-	15	15	80	FC 1	8/MC5.0	1,2,3,4
HP 2	CARRIER 38MARBQ09AA3	SPEECH 2	9,000	11,800	20.5/ 13.0	208/230	1	-	15	15	80	FC 2	8/MC5.0	1,2,3,4
HP 3	CARRIER 25HHA418A003	WORK ROOM/WAITING AREA	18,000	NONE	14.0/ 11.5	208/230	1	-	11.8	20	170	FC 3	8/MC5.0	1,2,3,5
HP 4	CARRIER 25HHA418A003	WORK ROOM/WAITING AREA	18,000	NONE	14.0/ 11.5	208/230	1	-	11.8	20	170	FC 4	8/MC5.0	1,2,3,5

REMARKS
1. PROVIDE NEAOPRONE PAD.
2. PROVIDE LOW AMBIENT KIT.
3. PROVIDE HAILGUARD.
4. PROVIDE 1/4" LIQUID LINE AND 1/2" SUCTION REFRIGERANT LINE FOR 1.5 TON UNIT. INSULATE LIQUID AND SUCTION LINE. PROVIDE OUTDOOR JACKETING FOR OUTDOOR REFRIGERANT LINE.
5. PROVIDE DIA. 1/4" LIQUID LINE AND 3/8" SUCTION LINE FOR 0.75 TON UNIT. INSULATE LIQUID AND SUCTION LINE. PROVIDE OUTDOOR JACKETING FOR OUTDOOR REFRIGERANT LINE.

NOTES
INSTALL REFRIGERANT LINES PER MANUFACTURER GUIDELINES.
INSTALL UNITS PER MANUFACTURE GUIDELINES.

FAN COIL SCHEDULE

SYM	MFR & MODEL #	AREA SERVICED	CFM	OSA	ESP	FAN HP	ELECTRICAL V	ELECTRICAL PH	ELECTRICAL FLA	WT	INTERLOCK WITH	ANCHORAGE DETAIL	REMARKS
FC 1	CARRER 40MBCQ09---3	SPEECH 1	380	30	-	-	FAN COIL UNIT POWERED BY HEAT PUMP UNIT			40	HP 1	7/MC5.0	1,4
FC 2	CARRER 40MBCQ09---3	SPEECH 2	380	30	-	-	FAN COIL UNIT POWERED BY HEAT PUMP UNIT			40	HP 2	7/MC5.0	1,4
FC 3	CARRER FMC4Z1800AL	WORK ROOM/WAITING AREA	600	60	0.50	.33	208	1	0.8	110	HP 3	1/MC5.1	1,2,3,4
FC 4	CARRER FMC4Z1800AL	WORK ROOM/WAITING AREA	600	55	0.50	.33	208	1	0.8	110	HP 3	1/MC5.1	1,2,3,4

REMARKS
1. PROVIDE CONDENSATE PUMP.
2. PROVIDE SECONDARY DRAIN PAN OR SENSOR TO SHUT DOWN FAN COIL IN CASE OF OVERFLOW.
3. PROVIDE 1" LINED SUPPLY AND RETURN PLENUM. PROVIDE FIELD FABRICATED FILTER RACK WITH 2" MERV 13 FILTER.
4. PROVIDE PELICAN TS200H THERMOSTAT FOR VIRTUAL MANAGEMENT. COORDINATE WITH PELICAN CONTROLS AND HEAT PUMP MANUFACTURE FOR ALL COMPONENTS AND ACCESSORIES PRIOR TO ORDER. PROVIDE ALL COMPONENTS AND ACCESSORIES FOR FULLY FUNCTION SYSTEM.

NOTES
INSTALL UNITS PER MANUFACTURE GUIDELINES.

AIR DISTRIBUTION SCHEDULE

SYM.	MFR. & MODEL #	NECK SIZE	CFM RANGE	MAX. NECK VELOCITY	MAX. N.C.	S.P. DROP	TYPE	DAMPER	REMARKS
- SD-1	KRUEGER 1240	8"x8" 10"x10" 12"x12" 14"x14" 16"x16" 18"x18"	0-170 171-270 271-390 391-540 541-700 701-900	400	30	.06	MODULAR	NONE	FRAME 23 FOR T-BAR
- SD-2	KRUEGER 1240	8"x8" 10"x10" 12"x12" 14"x14" 16"x16" 18"x18"	0-170 171-270 271-390 391-540 541-700 701-900	400	30	.06	MODULAR	O.B.D.	FRAME 22 FOR GYP.BOARD CEILING
- SD-3	KRUEGER RA2	8" 10" 12" 14" 16"	0-150 181-280 281-400 401-550 551-700	400	30	.06	ROUND	VOLUME DAMPER	-
- SD-4	KRUEGER 880H	12"x8" 14"x10" 16"x12" 18"x12" 24"x12"	0-200 200-350 350-500 600 600-800	400	30	.06	35 DEG. ADJUSTABLE	O.B.D.	-
- RG-1	KRUEGER EGC5	24"X24"	0-1400	400	30	.03	EGG-CRATE	NONE	FRAME 23 FOR T-BAR
- RG-2	KRUEGER EGC5	8"x8" 10"x10" 12"x12" 14"x14" 16"x16" 18"x18"	0-170 171-270 271-390 391-540 541-700 701-900	400	30	.03	EGG-CRATE	O.B.D.	FRAME 22 FOR GYP. BOARD CEILING
- RG-3	KRUEGER EGC5	48"X24"	0-3600	400	30	.03	EGG-CRATE	NONE	-
- RG-4	KRUEGER S80H	12"x8" 14"x10" 16"x12" 18"x12" 24"x12"	0-200 200-350 350-500 600 600-800	400	30	.03	35 DEG.	O.B.D.	-
- TG-1	KRUEGER EGC5	24"X24"	0-1400	400	30	.03	EGG-CRATE	NONE	FRAME 23 FOR T-BAR
- TG-2	KRUEGER EGC5	8"x8" 10"x10" 12"x12" 14"x14"	0-150 151-230 231-350 350-500	400	30	.03	EGG-CRATE	NONE	FRAME 22 FOR GYP.BOARD CEILING
- EG-1	KRUEGER S80H	8"x8" 10"x10" 12"x12" 14"x14" 16"x16" 18"x18"	0-170 171-270 271-390 391-540 541-700 701-900	400	30	.03	35 DEG.	O.B.D.	-

LEGEND

400 / SD-1 — CFM / AIR DISTRIBUTION DEVICE

SD	SUPPLY DIFFUSER
RG	RETURN GRILLE
TG	TRANSFER GRILLE
EG	EXHAUST GRILLE

SUPPLY FAN SCHEDULE

SYM	MFR & MODEL #	AREA SERVICED	CFM	ESP	MOTOR HP	ELECTRICAL V	ELECTRICAL PH	FAN RPM	TIP SPEED	WT. (LBS.)	ANCHORAGE DETAIL	REMARK
SF 1	GREENHECK SQ-98-VG	OSA TO FAN COIL	175	0.6	1/4	120	1	1282	3756	50	5/MC5.1	1,2,3,4,5,6.

NOTES
1. BACKDRAFT DAMPER.
2. PROVIDE 0-10 V VARI GREEN MOTOR WITH DIAL.
3. PROVIDE FIELD FABRICATED FILTER RACK WITH 2" MERV 13 FILTER. 300 FPM MAX. AIR VELOCITY AT FILTER.
4. PROVIDE ROOF CAP FOR OSA INTAKE. MINIMUM 8"x8" ROOF CAP PROVIDE BIRD SCREEN.
5. PROVIDE INSULATED HOUSING.
6. PROVIDE PELICAN PM5-120/240 WIRELESS POWER CONTROL MODULE. FOR VIRTUAL MANAGEMENT. TOTAL TWO PM5-120/240 WIRELESS CONTROL MODULE. SEE CONTROL DIAGRAM FOR MORE INFORMATION.

EXHAUST FAN SCHEDULE

SYM	MFR & MODEL #	AREA SERVICED	CFM	ESP	POWER	ELECTRICAL V	ELECTRICAL PH	FAN RPM	TIP SPEED	WT. (LBS.)	ANCHORAGE DETAIL	REMARK
EF 1	PANASONIC FV-0511VK2	CUSTODIAN C14	125	0.25	9.6 KW	120	1	1113	-	15	11/MC5.0	1,2,3,4.
EF 2	PANASONIC FV-0511VK2	STAFF RESTROOM C13	125	0.25	9.6 KW	120	1	1113	-	15	11/MC5.0	1,2,3,4.

NOTES
1. BACKDRAFT DAMPER.
2. PROVIDE MIN. 6"x6" ROOF CAP.
3. ENCLOSED BRUSHLESS ECM SMART MOTOR.
4. CONNECT EXISTING FAN TO PELICAN PM5-120/240 WIRELESS POWER CONTROL MODULE.

EXISTING ROOFTOP PACKAGED GAS A/C UNIT SCHEDULE - FOR REFERENCE ONLY

E. TAG	N. TAG	MFR & MODEL #	TONNAGE	COOLING CAPACITY (MBH) TOTAL	COOLING CAPACITY (MBH) SENSIBLE	ARI SEER	HEATING CAPACITY (MBH) INPUT	HEATING CAPACITY (MBH) OUTPUT	CFM	ELECTRICAL V	ELECTRICAL PH	UNIT WT.	(E) CURB WT.	P.E./ ECON. WT.	TOTAL WT.
(E) RTU B103	RTU C1	YORK DH048N06P4AAA1B	4	46.5	-	13.2	75.0	59.0	1600	460	3	670	92	50	812
(E) RTU B104	RTU C2	YORK DH048N06P4AAA1B	4	46.5	-	13.2	75.0	59.0	1600	460	3	670	92	50	812
(E) RTU B105	RTU C3	YORK DH036N04P4AAA1A	3	42.5	-	12.25	50.0	40.0	1200	460	3	625	92	50	767
(E) RTU B106	RTU C4	YORK DH036N04P4AAA1A	3	42.5	-	12.25	50.0	40.0	1200	460	3	625	92	50	767
(E) RTU B110	RTU C5	YORK DH060N08P4AAA2A	5	57	-	12.20	100.0	79.0	2000	460	3	705	92	50	847
(E) RTU B101	RTU C6	YORK DH036N04P4AAA1A	3	42.5	-	12.25	50.0	40.0	1200	460	3	625	92	50	767
(E) RTU B102	RTU C7	YORK DH048N06P4AAA1B	4	46.5	-	13.2	75.0	59.0	1600	460	3	670	92	50	812

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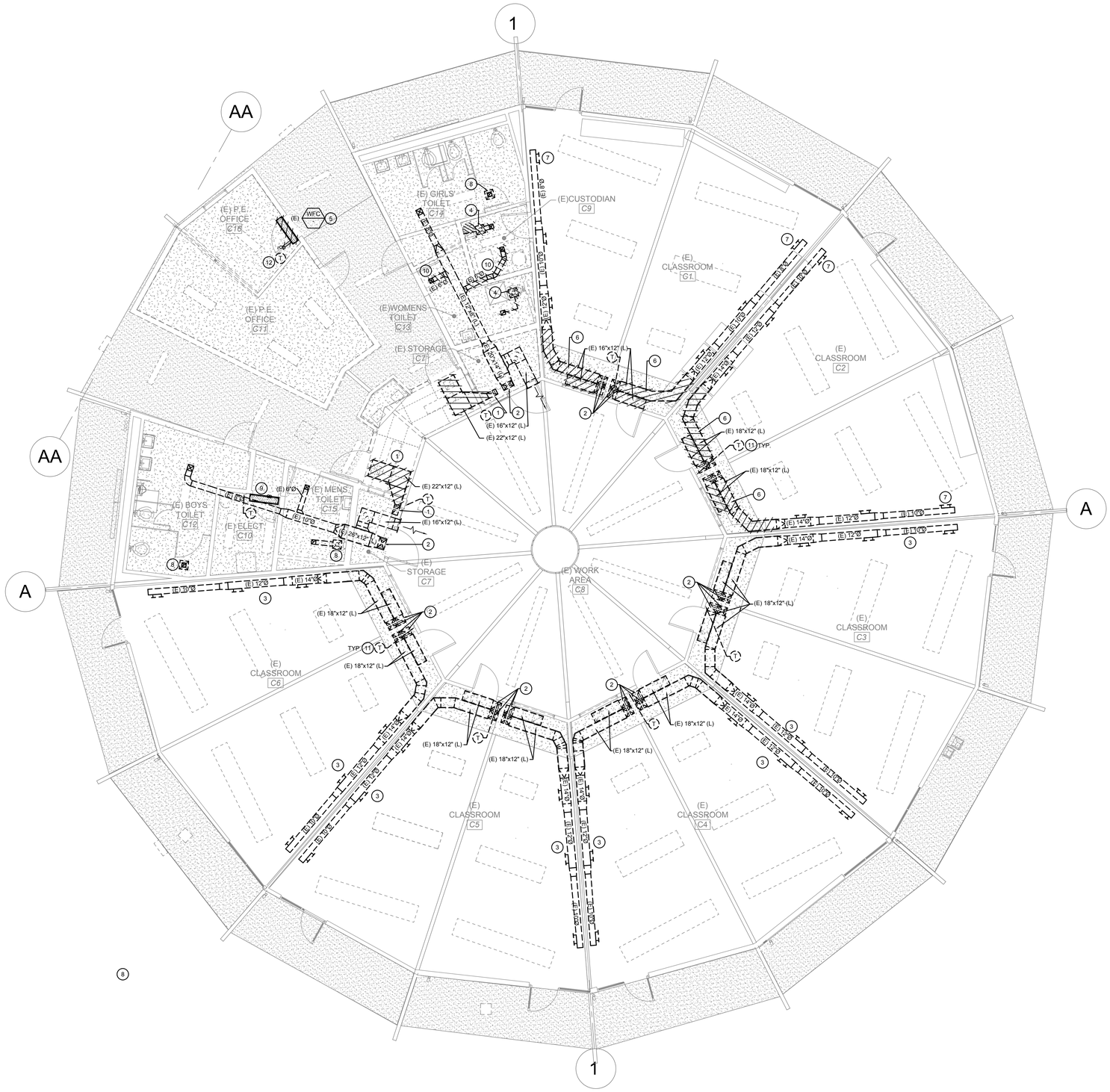
SHEET
MECHANICAL SCHEDULES

DATE 10/19/2021
JOB # 2020029.02
SHEET # MC0.2



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MECHANICAL - BUILDING C - EXISTING FLOOR PLAN | 3/16" = 1'-0" | 1

DEMOLITION GENERAL NOTES

1. CONTRACTOR SHALL MODIFY DUCT CONNECTIONS AS NECESSARY TO MATCH NEW REGISTER SIZE.
2. CONTRACTOR SHALL REUSE EXISTING OPENING(S) IN ROOF FOR FUTURE DUCTWORK AND ETC, WHEREVER POSSIBLE COORDINATE WITH OTHER TRADES AS NECESSARY.
3. ALL EXISTING DUCTWORK, EXTERIOR LOUVERS, AND REGISTER(S) TO REMAIN SHALL BE CLEANED PER SPECIFICATIONS BY APPROVED DUCT CLEANING CONTRACTOR.
4. PATCHED AND REPAIR EXISTING SURFACES AS REQUIRED TO COMPLETE NEW WORK.
5. ALL NEW WORK SHALL MATCH EXISTING IN KIND, QUALITY AND FINISH UNLESS OTHERWISE NOTED.
6. CONTRACTOR SHALL INCLUDE IN SCOPE OF WORK. ALL WORK REQUIRED TO PATCH, FINISH, MATCH, AND BLEND NEW SURFACES TO EXISTING AS IMPACTED BY AREAS OF NEW WORK.
7. CONTRACTOR SHALL VISIT THE JOB SITE AND VERIFY THE SCOPE OF DEMOLITION WORK. DEMOLITION IS INDICATED AS A CONVENIENCE FOR THE CONTRACTOR AND MAY NOT INDICATE THE FULL SCOPE OF DEMOLITION REQUIRED TO COMPLETE THE NEW WORK.
8. CONTRACTOR SHALL COORDINATE WITH OWNER PRIOR TO ANY WORK BEING DONE FOR THE REMOVAL, RELOCATION, AND/OR REUSE OF MECHANICAL EQUIPMENT DURING CONSTRUCTION.
9. PRIOR TO ANY WORK BEING DONE, CONTRACTOR SHALL MAKE A CAREFUL EVALUATION OF EXISTING CONDITIONS AND VERIFY ALL METHODS OF REMOVAL AND INSTALLATION OF MECHANICAL EQUIPMENT.
10. CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH THE WORK OF ALL OTHER TRADE PARTNERS.

DEMOLITION KEYNOTES

1. (E) EXISTING RETURN DUCT DROP FROM AC UNIT ON ROOF TO REMAIN. VERIFY EXACT LOCATION & SIZES IN FIELD PRIOR TO CONSTRUCTION. REMOVE EXISTING RETURN DUCTWORK, REGISTER, MOUNTING AND SUPPORT HARDWARE. REPAIR & PATCH AFFECTED AREAS AS REQUIRED.
2. (E) EXISTING SUPPLY AND RETURN DUCT DROP FROM AC UNIT ON ROOF TO REMAIN. VERIFY EXACT LOCATION & SIZES IN FIELD PRIOR TO CONSTRUCTION.
3. (E) EXISTING SUPPLY AND RETURN DUCTWORK, DIFFUSER TO REMAIN. VERIFY EXACT LOCATION & SIZES IN FIELD
4. (E) REMOVE EXHAUST FAN, DUCTWORK AND SUPPORT HARDWARE. MODIFY EXISTING ROOF OPENING AS REQUIRED FOR NEW EXHAUST DUCTWORK.
5. (E) REMOVE EXISTING FAN COIL, RELATED ACCESSORIES AND ALL MOUNTING BRACKETS AND SUPPORT HARDWARE. DISCONNECT (E) ELECTRICAL AND CONDENSATE. ALL EXISTING UTILITIES TO BE REMOVED SHALL BE REMOVED BACK TO SOURCE.
6. REMOVE EXISTING SUPPLY AND RETURN DUCTWORK, REGISTER, MOUNTING AND SUPPORT HARDWARE. REPAIR & PATCH AFFECTED CEILING AREAS AS REQUIRED.
7. EXISTING SUPPLY DUCTWORK TO REMAIN AND DEMO EXISTING DIFFUSERS. PATCH EXISTING DUCTWORK AS REQUIRED. EXISTING SUPPLY DUCTWORK TO BE RE-USED AS RETURN DUCTWORK. SEE REMODEL PLAN FOR MORE INFORMATION.
8. EXISTING EXHAUST DUCTWORK, GRILL AND FAN TO REMAIN.
9. EXISTING FAN COIL, ASSOCIATED CONDENSING UNIT ON ROOF AND ALL RELATED ACCESSORIES TO REMAIN. FIELD VERIFY EXACT LOCATION.
10. EXISTING SUPPLY DUCTWORK BRANCH AND AIR DISTRIBUTION TO REMOVED. MAIN EXISTING SUPPLY DUCTWORK TO REMAIN.
11. FIELD VERIFY EXISTING THERMOSTAT LOCATION. DEMO EXISTING THERMOSTAT AND CONTROL WIRING. PATCH AND REPAIR EXISTING WALL AS REQUIRED TO MATCH.
12. REPLACE EXISTING THERMOSTAT WITH PELICAN THERMOSTAT TS200H. MOUNT NEW THERMOSTAT AT 48" A.F.F.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119816 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 02/25/2022

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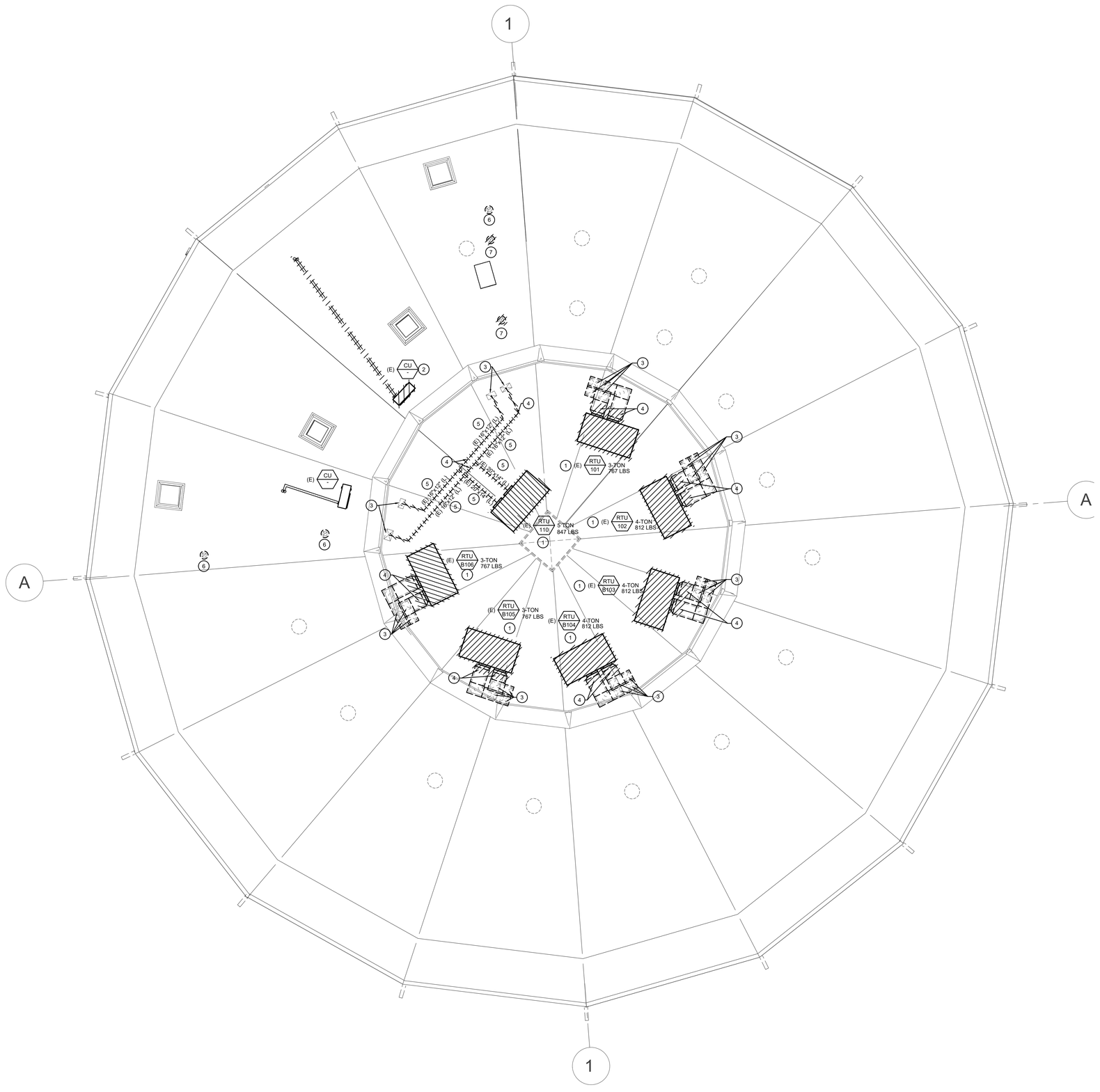
SHEET

MECHANICAL - BUILDING C - DEMOLITION FLOOR PLAN

DATE 10/19/2021

JOB # 2020029.02

SHEET # MDC2.0



DEMOLITION GENERAL NOTES

1. CONTRACTOR SHALL MODIFY DUCT CONNECTIONS AS NECESSARY TO MATCH NEW REGISTER SIZE.
2. CONTRACTOR SHALL REUSE EXISTING OPENING(S) IN ROOF FOR FUTURE DUCTWORK AND ETC. WHEREVER POSSIBLE COORDINATE WITH OTHER TRADES AS NECESSARY.
3. ALL EXISTING DUCTWORK, EXTERIOR LOUVERS, AND REGISTER(S) TO REMAIN SHALL BE CLEANED PER SPECIFICATIONS BY APPROVED DUCT CLEANING CONTRACTOR.
4. PATCHED AND REPAIR EXISTING SURFACES AS REQUIRED TO COMPLETE NEW WORK.
5. ALL NEW WORK SHALL MATCH EXISTING IN KIND, QUALITY AND FINISH UNLESS OTHERWISE NOTED.
6. CONTRACTOR SHALL INCLUDE IN SCOPE OF WORK, ALL WORK REQUIRED TO PATCH, FINISH, MATCH, AND BLEND NEW SURFACES TO EXISTING AS IMPACTED BY AREAS OF NEW WORK.
7. CONTRACTOR SHALL VISIT THE JOB SITE AND VERIFY THE SCOPE OF DEMOLITION WORK. DEMOLITION IS INDICATED AS A CONVENIENCE FOR THE CONTRACTOR AND MAY NOT INDICATE THE FULL SCOPE OF DEMOLITION REQUIRED TO COMPLETE THE NEW WORK.
8. CONTRACTOR SHALL COORDINATE WITH OWNER PRIOR TO ANY WORK BEING DONE FOR THE REMOVAL, RELOCATION, AND/OR REUSE OF MECHANICAL EQUIPMENT DURING CONSTRUCTION.
9. PRIOR TO ANY WORK BEING DONE, CONTRACTOR SHALL MAKE A CAREFUL EVALUATION OF EXISTING CONDITIONS AND VERIFY ALL METHODS OF REMOVAL AND INSTALLATION OF MECHANICAL EQUIPMENT.
10. CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH THE WORK OF ALL OTHER TRADE PARTNERS.

DEMOLITION KEYNOTES

1. (E) EXISTING ROOFTOP UNIT TO BE REMOVED AND REPLACE WITH LIKE FOR LIKE. EXISTING CURB TO REMAIN. RE-USE EXISTING CURB. FIELD VERIFY EXISTING CURB CONDITION AND WEATHERPROOFING CONDITION PRIOR TO NEW UNIT INSTALLATION.
2. (E) REMOVE EXISTING CONDENSING UNIT, REFRIGERATION PIPING, PLATFORM AND ALL MOUNTING BRACKETS AND SUPPORT HARDWARE. DISCONNECT (E) ELECTRICAL. ALL EXISTING UTILITIES TO BE REMOVED SHALL BE REMOVED BACK TO SOURCE. PATCH AND REPAIR ROOF AS REQUIRED.
3. (E) EXISTING SUPPLY AND RETURN DUCT DROP DOWN THROUGH ROOF TO REMAIN. VERIFY EXACT LOCATION & SIZES IN FIELD PRIOR TO CONSTRUCTION. FIELD VERIFY EXISTING DUCT DROPS THROUGH ROOF CONDITION AND WEATHERPROOFING CONDITION PRIOR TO NEW UNIT INSTALLATION.
4. EXISTING SUPPLY AND RETURN DUCTWORK FROM PACKGED UNIT TO DUCT DROP TO BE REMOVED AND REPLACED WITH NEW LIKE FOR LIKE DUCTWORK. VERIFY EXACT LOCATION & SIZES IN FIELD PRIOR TO CONSTRUCTION.
5. EXISTING DUCTWORK SIZES ARE FOR REFERENCE. FIELD VERIFY EXISTING DUCTWORK SIZES.
6. EXISTING EXHAUST FAN/ ROOF CAP TO REMAIN.
7. REMOVE DUCTWORK, ROOF CAP AND SUPPORT HARDWARE. MODIFY EXISTING ROOF OPENING AS REQUIRED FOR NEW EXHAUST DUCTWORK.

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PROJECT

LYDIKSEN ELEMENTARY SCHOOL MODERNIZATION

PLEASANTON UNIFIED SCHOOL DISTRICT

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER BANERJEE No. M29353 Exp. 6/30/23 MECHANICAL STATE OF CALIFORNIA

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APPL # 01-119816

REVISIONS

MILESTONES

SD	06/21/2021
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50% CD	09/20/2021
90% CD	10/14/2021
DSA SUB	10/19/2021

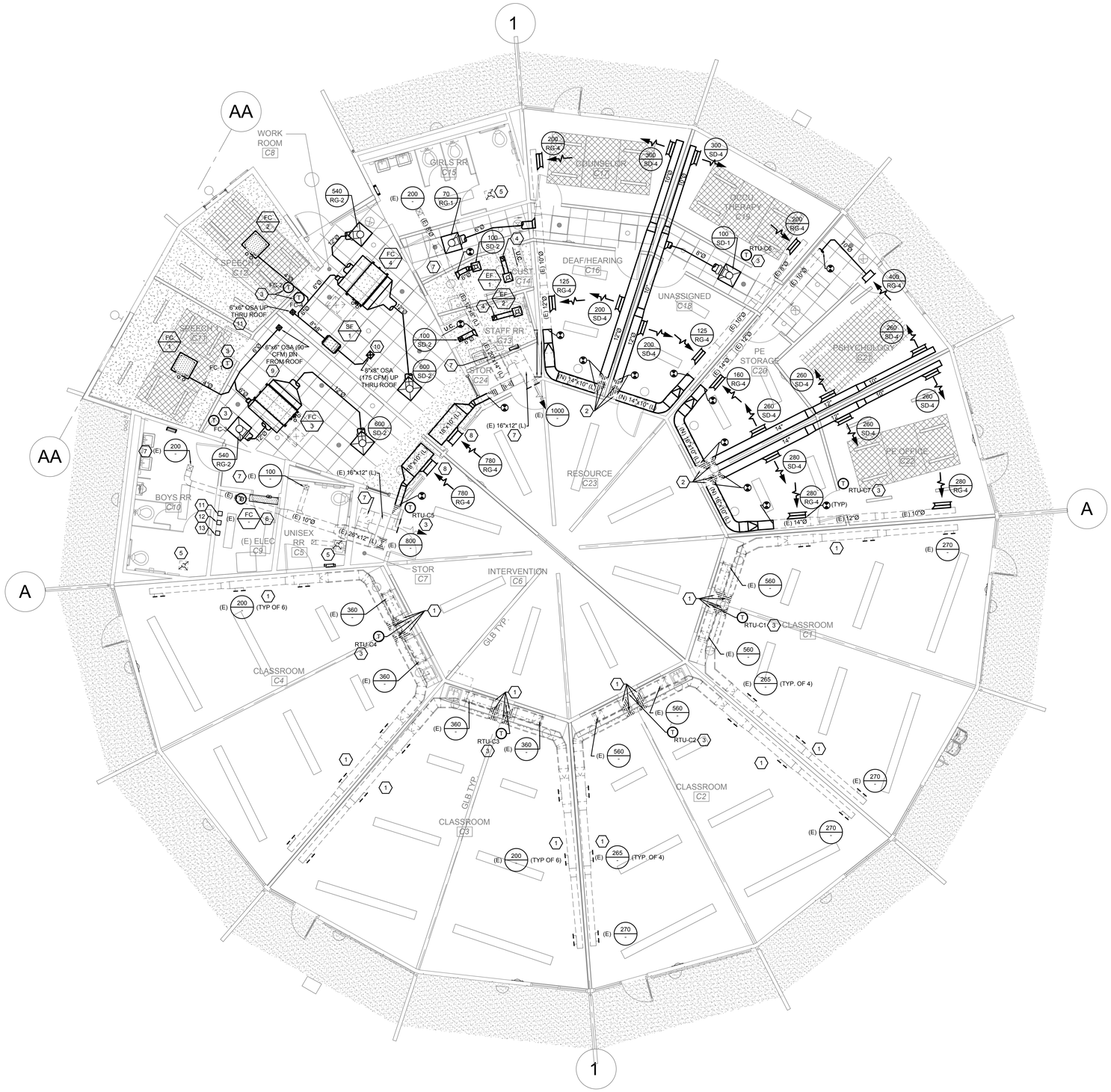
SHEET

MECHANICAL - BUILDING C - DEMOLITION - ROOF PLAN

DATE 10/19/2021
JOB # 2020029.02
SHEET # MDC3.0

MECHANICAL - BUILDING C - DEMOLITION ROOF PLAN | 3/16" = 1'-0" | 1

FILE: P:\2021\502-21-0007 - Lydiksen\Mech\502-21-0007_MDC3.0.dwg Feb 11, 2022 - 12:39pm JPatel



NEW CONSTRUCTION GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES AS NECESSARY PRIOR TO INSTALLATION.
2. CONTRACTOR SHALL MAINTAIN PROPER CLEARANCES FROM ALL ELECTRICAL EQUIPMENT AND SERVICE CLEARANCES FOR MECHANICAL EQUIPMENT.
3. CONTRACTOR SHALL INSTALL PIPING SUCH THAT EQUIPMENT AND ALL APPURTENANCES ARE EASILY SERVICEABLE.
4. FRESH AIR INTAKES SHALL BE 10'-0" MIN. AWAY FROM ALL EXHAUST OUTLETS,PLUMBING VENTS, AND FLUES.
5. MAINTAIN MANUFACTURER MIN. CLEARANCES ON ALL MECHANICAL EQUIPMENT.
6. CONTRACTOR SHALL INSULATE ALL REFRIGERANT SUCTION AND LIQUID PIPING INCLUDING JOINTS & PIPING SUPPORTS. INSULATION WALL THICKNESS SHALL BE PER 2019 ENERGY CODE REQUIREMENT. PROVIDE WEATHER JACKETING FOR ALL EXTERIOR REFRIGERANT PIPING.
7. BEFORE BIDDING ON THIS WORK, THE CONTRACTOR SHALL MAKE A CAREFUL EXAMINATION OF THE PREMISES, EXISTING EQUIPMENT AND SERVICES. HE SHALL DEFINITELY DETERMINE IN ADVANCE, THE METHODS OF INSTALLING AND CONNECTING THE NEW EQUIPMENT, DUCTWORK, AND PIPING THE MEANS TO BE PROVIDED FOR GETTING THE EQUIPMENT AND MATERIALS INTO PLACE AND SHALL MAKE HIMSELF THOROUGHLY FAMILIAR WITH ALL OF THE REQUIREMENTS OF THE PROJECT. FAILURE TO VISIT THE SITE WILL IN NO WAY RELIEVE THE SUCCESSFUL CONTRACTOR OF THE NECESSITY OF FURNISHING ANY MATERIAL OR PERFORMING ANY WORK THAT MAY BE REQUIRED TO COMPLETE THE WORK IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. THIS ADDITIONAL WORK SHALL BE PERFORMED WITHOUT ADDITIONAL COST TO THE OWNER.
8. BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS AND DIMENSIONS OF ALL EXISTING EQUIPMENT AND ELECTRICAL SERVICES IN THE AREA OF CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
9. PATCH AND REPAIR EXISTING SURFACES AS REQUIRED TO FACILITATE DEMOLITION AND/OR PERFORMANCE OF THE NEW WORK. ALL NEW WORK SHALL MATCH IN KIND, QUALITY AND FINISH U.O.N.
10. ALL NEW EXPOSED SHEET METAL DUCT WORK,SHEET METAL CURB/PLATFORM AND DUCT SUPPORT SHALL BE PREPARED AND PAINTED PER SPECIFICATIONS

CONSTRUCTION KEYNOTES

1. (E) EXISTING SUPPLY AND RETURN DUCT DROP AND DUCTWORK, DIFFUSER TO REMAIN. VERIFY EXACT LOCATION & SIZES IN FIELD. RE-BALANCE AIR DISTRIBUTION CFM PER MARKUP AFTER INSTALLATION OF NEW UNIT.
2. (E) EXISTING SUPPLY AND RETURN DUCT DROP FROM AC UNIT ON ROOF TO REMAIN. VERIFY EXACT LOCATION & SIZES IN FIELD PRIOR TO CONSTRUCTION. PROVIDE DUCT TRANSITION AS REQUIRED TO CONNECT NEW DUCTWORK. REPAIR & PATCH AFFECTED AREAS AS REQUIRED.
3. PROVIDE HARDWIRED THERMOSTAT MOUNT AT 48" A.F.F.
4. 6"X6" EXHAUST DUCT UP THROUGH ROOF TO ROOF CAP.
5. EXISTING EXHAUST DUCTWORK, GRILL AND FAN TO REMAIN.
6. EXISTING FAN COIL, ASSOCIATED CONDENSING UNIT ON ROOF AND ALL RELATED ACCESSORIES TO REMAIN. FIELD VERIFY EXACT LOCATION.
7. MAIN EXISTING SUPPLY DUCTWORK TO REMAIN.
8. NEW RETURN REGISTER SHALL BE INSTALLED AR SAME HEIGHT AS EXISTING SUPPLY REGISTER. PROVIDED DUCT TRANSITION AS REQUIRED TO CONNECT EXISTING RETURN DUCT DROP.
9. 6"x6" OSA DUCT UP THROUGH ROOF.
10. 8"x8" OSA DUCT UP THROUGH ROOF TO ROOF CAP.
11. PROVIDE PELICAN WIRELESS EXTENDED RANGE GATEWAYS GW400. INSTALL IN EXISTING ELECTRICAL ROOM C9. COORDINATE FINAL LOCATION IN FIELD. COORDINATE WITH DISTRICT FOR ETHERNET CONNECTION TO THE GATEWAY.
12. PROVIDE PELICAN PM5 (PM5-1)-120/240 WIRELESS POWER CONTROL MODULE TO VIRTUAL MANAGEMENT TWO NEW EXHAUST FAN (EF-1, EF-2) AND NEW SUPPLY FANS (SF-1). INSTALL IN EXISTING ELECTRICAL ROOM C9. SEE ELECTRICAL PLANS FOR LOCATION AND WIRING INFORMATION. INSTALL AS PER MANUFACTURER GUIDELINES.
13. PROVIDE PELICAN PM5 (PM5-2)-120/240 WIRELESS POWER CONTROL MODULE TO VIRTUAL MANAGEMENT THREE EXISTING EXHAUST FAN SERVING BOYSC10, UNISEX C5, GIRLS C15. INSTALL IN EXISTING ELECTRICAL ROOM C9. SEE ELECTRICAL PLANS FOR LOCATION AND WIRING INFORMATION. INSTALL AS PER MANUFACTURER GUIDELINES.

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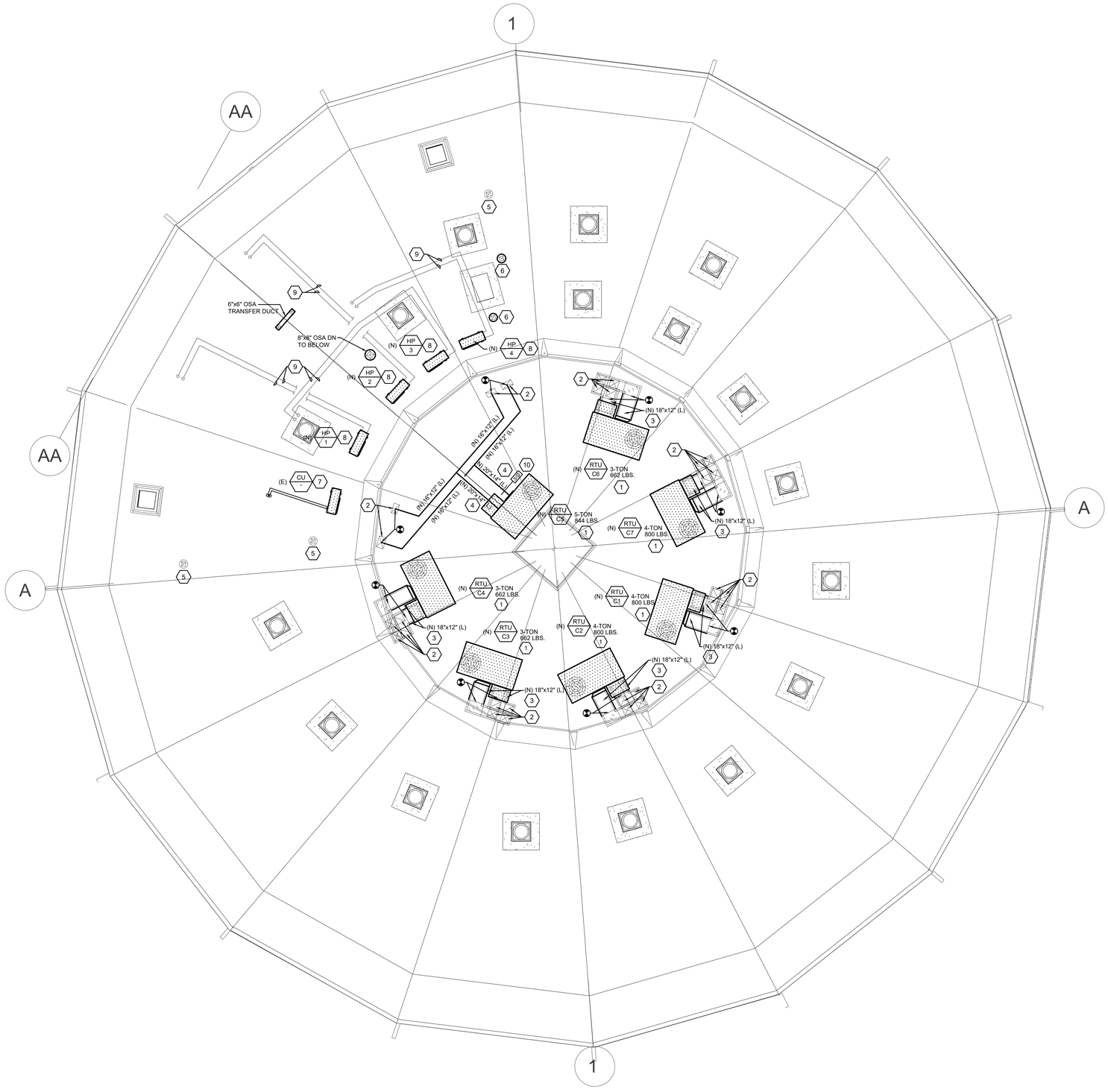
SHEET
MECHANICAL - BUILDING C - NEW FLOOR PLAN

DATE 10/19/2021
JOB # 2020029.02
SHEET # MC2.0

MECHANICAL - BUILDING C - NEW FLOOR PLAN | 3/16" = 1'-0" | 1



NEW CONSTRUCTION GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES AS NECESSARY PRIOR TO INSTALLATION.
2. CONTRACTOR SHALL MAINTAIN PROPER CLEARANCES FROM ALL ELECTRICAL EQUIPMENT AND SERVICE CLEARANCES FOR MECHANICAL EQUIPMENT.
3. CONTRACTOR SHALL INSTALL PIPING SUCH THAT EQUIPMENT AND ALL APPURTENANCES ARE EASILY SERVICEABLE.
4. FRESH AIR INTAKES SHALL BE 10'-0" MIN. AWAY FROM ALL EXHAUST OUTLETS,PLUMBING VENTS, AND FLUES.
5. MAINTAIN MANUFACTURER MIN. CLEARANCES ON ALL MECHANICAL EQUIPMENT.
6. CONTRACTOR SHALL INSULATE ALL REFRIGERANT SUCTION AND LIQUID PIPING INCLUDING JOINTS & PIPING SUPPORTS. INSULATION WALL THICKNESS SHALL BE PER 2019 ENERGY CODE REQUIREMENT. PROVIDE WEATHER JACKETING FOR ALL EXTERIOR REFRIGERANT PIPING.
7. BEFORE BIDDING ON THIS WORK, THE CONTRACTOR SHALL MAKE A CAREFUL EXAMINATION OF THE PREMISES, EXISTING EQUIPMENT AND SERVICES. HE SHALL DEFINITELY DETERMINE IN ADVANCE, THE METHODS OF INSTALLING AND CONNECTING THE NEW EQUIPMENT, DUCTWORK, AND PIPING THE MEANS TO BE PROVIDED FOR GETTING THE EQUIPMENT AND MATERIALS INTO PLACE AND SHALL MAKE HIMSELF THOROUGHLY FAMILIAR WITH ALL OF THE REQUIREMENTS OF THE PROJECT. FAILURE TO VISIT THE SITE WILL IN NO WAY RELIEVE THE SUCCESSFUL CONTRACTOR OF THE NECESSITY OF FURNISHING ANY MATERIAL OR PERFORMING ANY WORK THAT MAY BE REQUIRED TO COMPLETE THE WORK IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. THIS ADDITIONAL WORK SHALL BE PERFORMED WITHOUT ADDITIONAL COST TO THE OWNER.
8. BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS AND DIMENSIONS OF ALL EXISTING EQUIPMENT AND ELECTRICAL SERVICES IN THE AREA OF CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
9. PATCH AND REPAIR EXISTING SURFACES AS REQUIRED TO FACILITATE DEMOLITION AND/OR PERFORMANCE OF THE NEW WORK. ALL NEW WORK SHALL MATCH IN KIND, QUALITY AND FINISH U.O.N.
10. ALL NEW EXPOSED SHEET METAL DUCT WORK,SHEET METAL CURB/PLATFORM AND DUCT SUPPORT SHALL BE PREPARED AND PAINTED PER SPECIFICATIONS

CONSTRUCTION KEYNOTES

1. (E) EXISTING ROOFTOP UNIT TO BE REPLACED WITH NEW UNITS. RE-USE EXISTING CURB. OPEN ROOFING AROUND EXISTING CURB TO VERIFY ANCHORAGE OF EXISTING CURB TO ROOF STRUCTURE. SEE STRUCTURAL DRAWINGS FOR ANCHORAGE INFORMATION. PATCH AND REPAIR OR REROOF AROUND EXISTING CURB AS REQUIRED.
2. (E) EXISTING SUPPLY AND RETURN DUCT DROP DOWN THROUGH ROOF TO REMAIN. VERIFY EXACT LOCATION & SIZES IN FIELD PRIOR TO CONSTRUCTION.
3. 18"X12"(L) SUPPLY AND 18"x12"(L) RETURN DUCT FROM NEW UNIT. CONNECT TO EXISTING DUCT DROP. PROVIDE DUCT TRANSITION AS REQUIRED.
4. 20"X14"(L) SUPPLY AND 20"x14"(L) RETURN DUCT FROM NEW UNIT. NEW DUCTWORK SAME LAYOUT AS EXISTING DUCTWORK. CONNECT TO EXISTING DUCT DROP. PROVIDE DUCT TRANSITION AS REQUIRED.
5. EXISTING EXHAUST SYSTEM TO REMAIN.
6. MIN 6"X6" EXHAUST ROOF CAP.
7. EXISTING CONDENSING UNIT, PIPING AND ALL RELATED ACCESSORIES TO REMAIN. FIELD VERIFY EXACT LOCATION.
8. NEW HEAT PUMP UNIT. INSTALL PER MANUFACTURER'S GUIDELINES. PROVIDE MIN 6" HIGH PLATFORM. SEE STRUCTURE PLAN FOR MORE INFORMATION.
9. REFRIGERATION PIPING FROM HEAT PUMP UNIT TO INDOOR FAN COIL. REFRIGERATION PIPE SIZES PER MANUFACTURER'S REQUIREMENT. INSULATE ALL REFRIGERANT SUCTION AND LIQUID PIPING INCLUDING JOINTS & PIPING SUPPORTS. INSULATION WALL THICKNESS SHALL BE PER 2019 ENERGY CODE REQUIREMENT. PROVIDE WEATHER JACKETING FOR ALL EXTERIOR REFRIGERANT PIPING.
10. PROVIDE DUCT SMOKE DETECTOR TO SHUT DOWN UNIT UPON DETECTION AND SEND SIGNAL TO BLDG. FIRE ALARM PANEL. DUCT SMOKE DETECTOR AND WIRING TERMINATION BY ELECTRICAL AND INSTALLED BY MECHANICAL.

MECHANICAL - BUILDING C - NEW ROOF PLAN | 1/4" = 1'-0" | 1

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MECHANICAL - BUILDING C - NEW ROOF PLAN

DATE 10/19/2021

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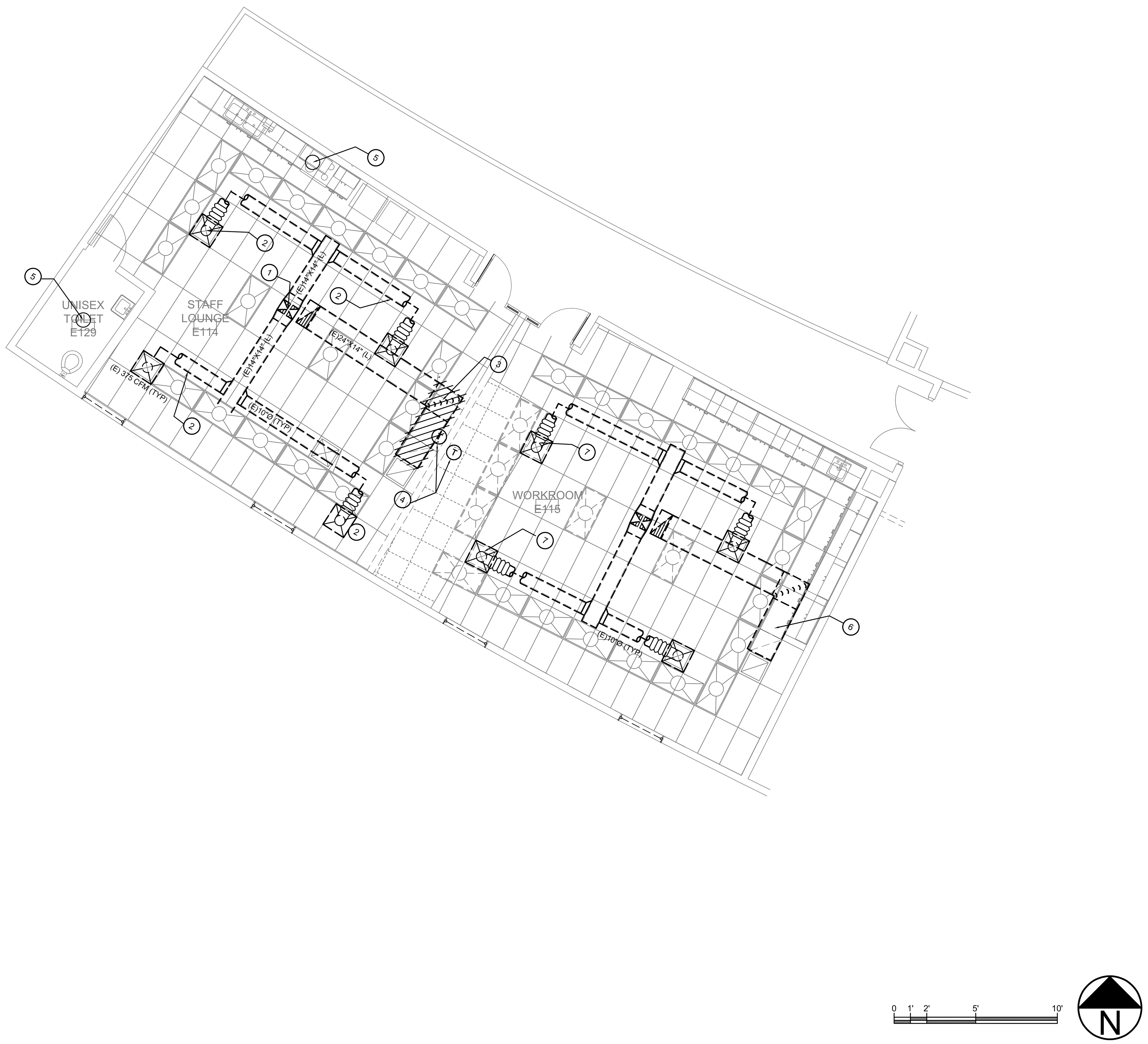
SHEET # MC3.0



MECHANICAL - BUILDING E - DEMOLITION FLOOR PLAN

3/16" = 1'-0" | 2

DEMOLITION GENERAL NOTES

1. CONTRACTOR SHALL MODIFY DUCT CONNECTIONS AS NECESSARY TO MATCH NEW REGISTER SIZE.
2. CONTRACTOR SHALL REUSE EXISTING OPENING(S) IN ROOF FOR FUTURE DUCTWORK AND ETC, WHEREVER POSSIBLE COORDINATE WITH OTHER TRADES AS NECESSARY.
3. ALL EXISTING DUCTWORK, EXTERIOR LOUVERS, AND REGISTER(S) TO REMAIN SHALL BE CLEANED PER SPECIFICATIONS BY APPROVED DUCT CLEANING CONTRACTOR.
4. PATCHED AND REPAIR EXISTING SURFACES AS REQUIRED TO COMPLETE NEW WORK.
5. ALL NEW WORK SHALL MATCH EXISTING IN KIND, QUALITY AND FINISH UNLESS OTHERWISE NOTED.
6. CONTRACTOR SHALL INCLUDE IN SCOPE OF WORK. ALL WORK REQUIRED TO PATCH, FINISH, MATCH, AND BLEND NEW SURFACES TO EXISTING AS IMPACTED BY AREAS OF NEW WORK.
7. CONTRACTOR SHALL VISIT THE JOB SITE AND VERIFY THE SCOPE OF DEMOLITION WORK. DEMOLITION IS INDICATED AS A CONVENIENCE FOR THE CONTRACTOR AND MAY NOT INDICATE THE FULL SCOPE OF DEMOLITION REQUIRED TO COMPLETE THE NEW WORK.
8. CONTRACTOR SHALL COORDINATE WITH OWNER PRIOR TO ANY WORK BEING DONE FOR THE REMOVAL, RELOCATION, AND/OR REUSE OF MECHANICAL EQUIPMENT DURING CONSTRUCTION.
9. PRIOR TO ANY WORK BEING DONE, CONTRACTOR SHALL MAKE A CAREFUL EVALUATION OF EXISTING CONDITIONS AND VERIFY ALL METHODS OF REMOVAL AND INSTALLATION OF MECHANICAL EQUIPMENT.
10. CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH THE WORK OF ALL OTHER TRADE PARTNERS.

DEMOLITION KEYNOTES

(1) EXISTING PACKAGED UNIT ON ROOF, SUPPLY AND RETURN DUCT DROP TO REMAIN. VERIFY EXACT LOCATION & SIZES IN FIELD.

(2) EXISTING SUPPLY DUCT WORK AND SUPPLY DIFFUSERS TO REMAIN.

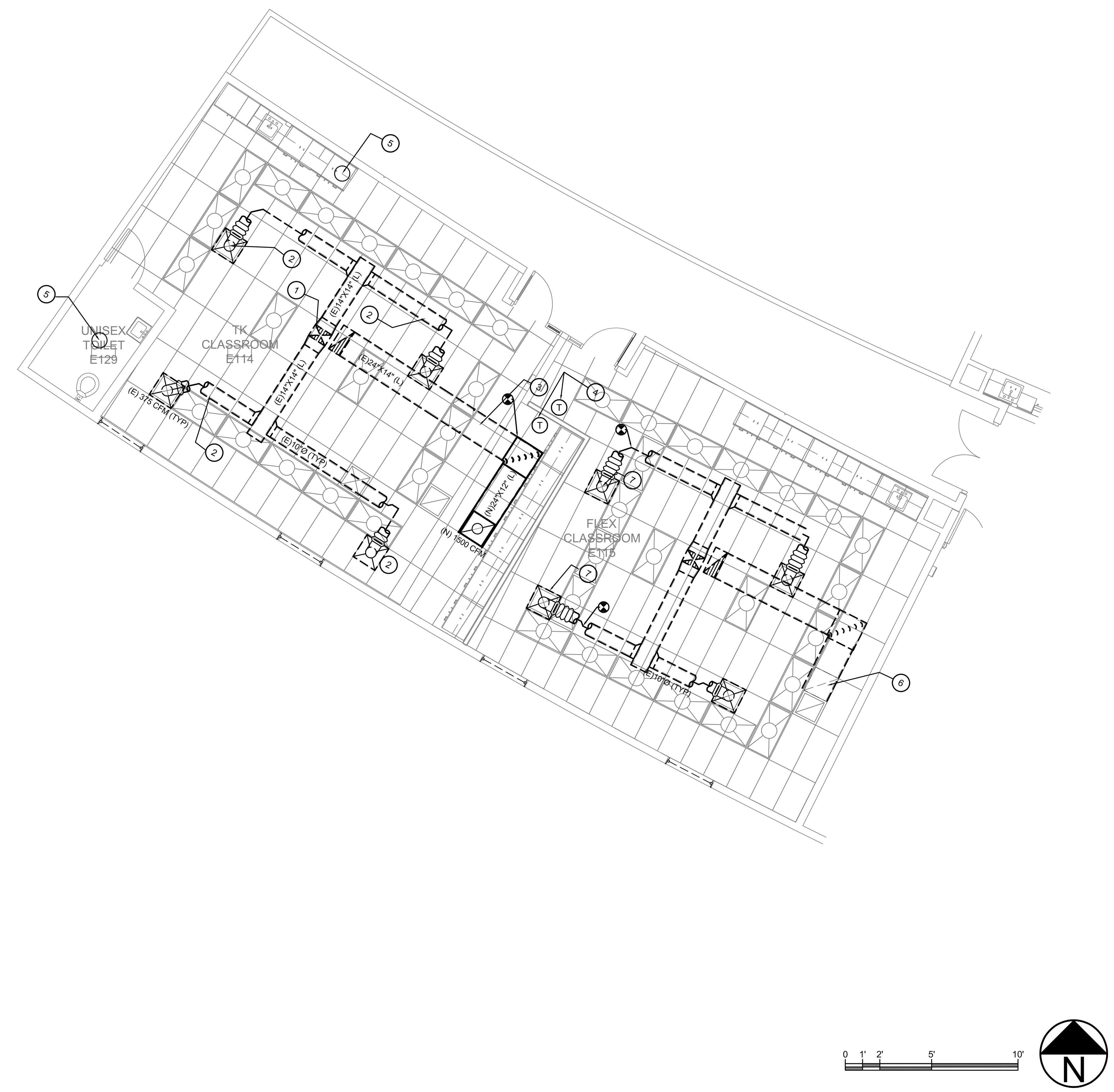
(3) DEMO EXISTING RETURN DUCTWORK AND REGISTER. VERIFY EXACT LOCATION & SIZES IN FIELD. SEE REMODEL PLAN FOR MORE INFORMATION

(4) EXISTING THERMOSTAT VERIFY EXACT LOCATION. RELOCATE EXISTING THERMOSTAT AND WIRING TO NEW WALL AS REQUIRED. SEE REMODEL PLAN FOR MORE INFORMATION.

(5) EXISTING EXHAUST SYSTEM TO REMAIN.

(6) EXISTING RETURN DUCTWORK AND RETURN REGISTER TO REMAIN

(7) RELOCATE EXISTING SUPPLY DIFFUSERS AS REQUIRED. VERIFY EXACT LOCATION & SIZES IN FIELD. SEE REMODEL PLAN FOR MORE INFORMATION. REPLACE EXISTING DIFFUSER WITH NEW SAME KIND IF DAMAGED.



MECHANICAL - BUILDING E - PROPOSED FLOOR PLAN

3/16" = 1'-0" | 1

CONSTRUCTION GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES AS NECESSARY PRIOR TO INSTALLATION.
2. CONTRACTOR SHALL MAINTAIN PROPER CLEARANCES FROM ALL ELECTRICAL EQUIPMENT AND SERVICE CLEARANCES FOR MECHANICAL EQUIPMENT.
3. CONTRACTOR SHALL INSTALL PIPING SUCH THAT EQUIPMENT AND ALL APPURTENANCES ARE EASILY SERVICEABLE.
4. FRESH AIR INTAKES SHALL BE 10'-0" MIN. AWAY FROM ALL EXHAUST OUTLETS,PLUMBING VENTS, AND FLUES.
5. MAINTAIN MANUFACTURER MIN. CLEARANCES ON ALL MECHANICAL EQUIPMENT.
6. CONTRACTOR SHALL INSULATE ALL REFRIGERANT SUCTION AND LIQUID PIPING INCLUDING JOINTS & PIPING SUPPORTS. INSULATION WALL THICKNESS SHALL BE PER 2019 ENERGY CODE REQUIREMENT. PROVIDE WEATHER JACKETING FOR ALL EXTERIOR REFRIGERANT PIPING.
7. BEFORE BIDDING ON THIS WORK, THE CONTRACTOR SHALL MAKE A CAREFUL EXAMINATION OF THE PREMISES, EXISTING EQUIPMENT AND SERVICES. HE SHALL DEFINITELY DETERMINE IN ADVANCE, THE METHODS OF INSTALLING AND CONNECTING THE NEW EQUIPMENT, DUCTWORK, AND PIPING THE MEANS TO BE PROVIDED FOR GETTING THE EQUIPMENT AND MATERIALS INTO PLACE AND SHALL MAKE HIMSELF THOROUGHLY FAMILIAR WITH ALL OF THE REQUIREMENTS OF THE PROJECT. FAILURE TO VISIT THE SITE WILL IN NO WAY RELIEVE THE SUCCESSFUL CONTRACTOR OF THE NECESSITY OF FURNISHING ANY MATERIAL OR PERFORMING ANY WORK THAT MAY BE REQUIRED TO COMPLETE THE WORK IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. THIS ADDITIONAL WORK SHALL BE PERFORMED WITHOUT ADDITIONAL COST TO THE OWNER.
8. BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS AND DIMENSIONS OF ALL EXISTING EQUIPMENT AND ELECTRICAL SERVICES IN THE AREA OF CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
9. PATCH AND REPAIR EXISTING SURFACES AS REQUIRED TO FACILITATE DEMOLITION AND/OR PERFORMANCE OF THE NEW WORK. ALL NEW WORK SHALL MATCH IN KIND, QUALITY AND FINISH U.O.N.
10. ALL NEW EXPOSED SHEET METAL DUCT WORK,SHEET METAL CURB/PLATFORM AND DUCT SUPPORT SHALL BE PREPARED AND PAINTED PER SPECIFICATIONS

CONSTRUCTION KEYNOTES

(1) EXISTING PACKAGED UNIT ON ROOF, SUPPLY AND RETURN DUCT DROP TO REMAIN. VERIFY EXACT LOCATION & SIZES IN FIELD.

(2) EXISTING SUPPLY DUCTWORK AND SUPPLY DIFFUSER TO TO REMAIN.

(3) NEW 24"x14"(L) RETURN DUCTWORK. SAME SIZE AS EXISTING DUCTWORK. VERIFY EXISTING RETURN DUCT SIZE IN FIELD.

(4) RELOCATED THERMOSTAT LOCATION. MOUNT AT 48" A.F.F.

(5) EXISTING EXHAUST SYSTEM TO REMAIN.

(6) EXISTING RETURN DUCTWORK AND RETURN REGISTER TO REMAIN.

(7) RELOCATED EXISTING SUPPLY DIFFUSERS AS REQUIRED. CONNECT TO EXISTING DUCTWORK. VERIFY EXACT LOCATION & SIZES IN FIELD. REPLACE EXISTING DIFFUSER WITH NEW SAME KIND IF DAMAGED

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PLEASANTON UNIFIED SCHOOL DISTRICT

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER — ABBY BANERJEE — No. M29253 — Exp. 6/30/23 — MECHANICAL — STATE OF CALIFORNIA

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DSA SUB	10/19/2021

SHEET

MECHANICAL - PARTIAL BUILDING E - FLOOR PLANS

DATE 10/19/2021

JOB # 2020029.02

SHEET # ME2.0

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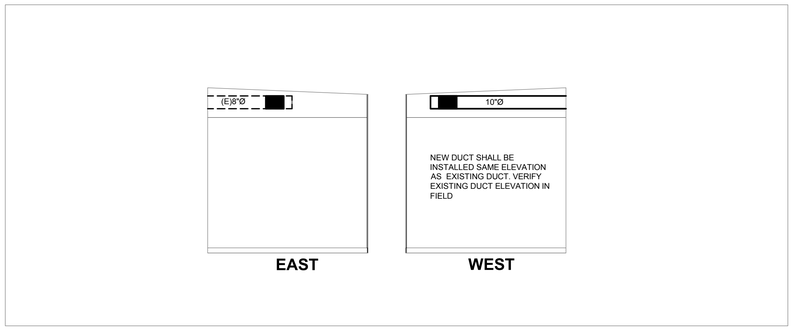
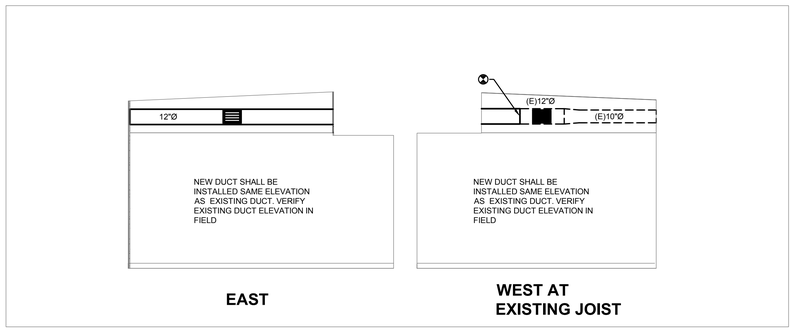


MECHANICAL - C17 COUNSELOR - INTERIOR ELEVATIONS | 1/4" = 1'-0" | 4



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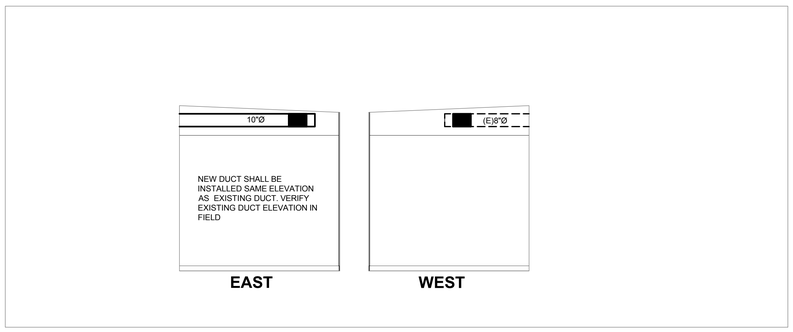
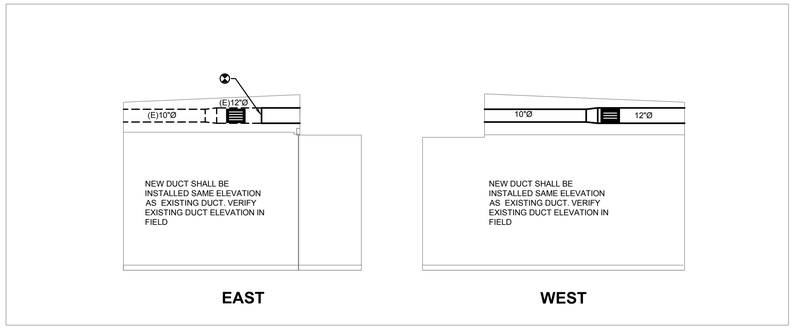


MECHANICAL - C19 OCCU. THERAPY - INTERIOR ELEVATIONS | 1/4" = 1'-0" | 3



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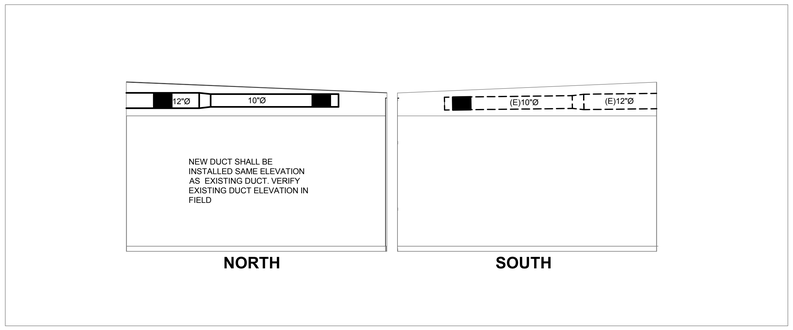
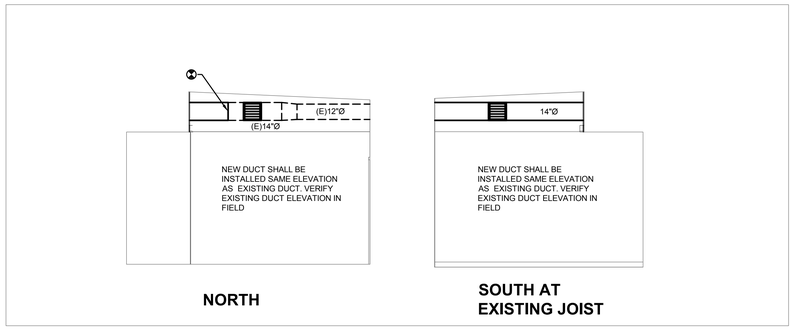


MECHANICAL - C22 PE OFFICE- INTERIOR ELEVATIONS | 1/4" = 1'-0" | 2



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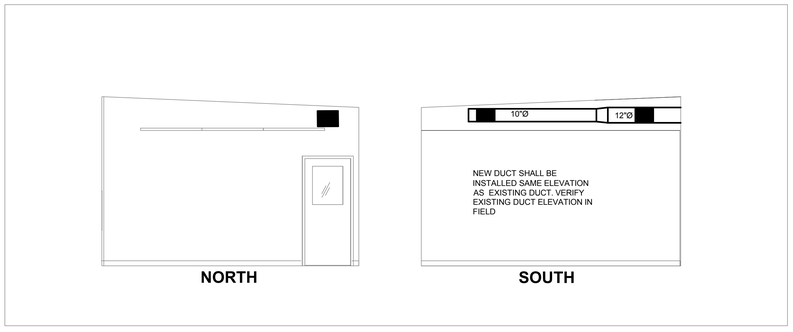

MECHANICAL - C21 PSHYCOLOGY- INTERIOR ELEVATIONS | 1/4" = 1'-0" | 1

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387 S. 1st Street, Suite 300
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tel: (408)-300-5160
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PROJECT

LYDIKSEN ELEMENTARY SCHOOL MODERNIZATION

PLEASANTON UNIFIED SCHOOL DISTRICT

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
BANERJEE
No. M29253
Exp. 6/30/23
MECHANICAL
STATE OF CALIFORNIA

oed optimum energy design
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DSA FILE NUMBER 1-32
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SD	06/21/2021
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50% CD	09/20/2021
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DSA SUB	10/19/2021

SHEET

MECHANICAL INTERIOR ELEVATIONS

DATE 10/19/2021
JOB # 2020029.02
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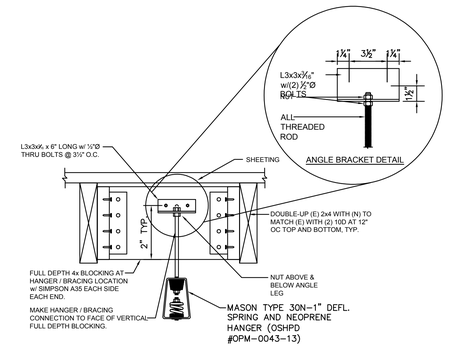
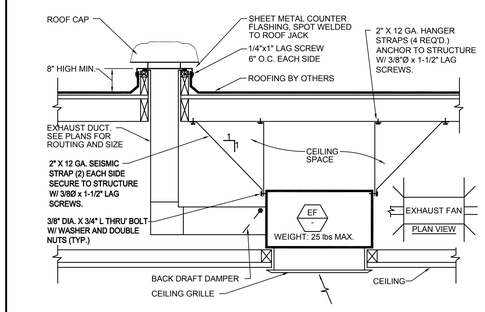


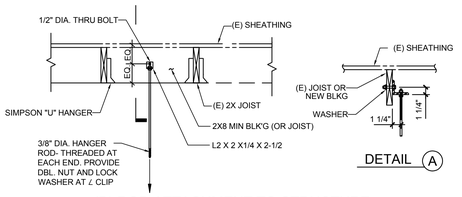
MECH DUCT/PIPING ANCHORAGE TO JOIST DETAIL

SCALE	
NONE	14

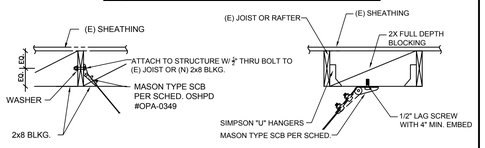


CEILING EXHAUST FAN MOUNTING DETAIL

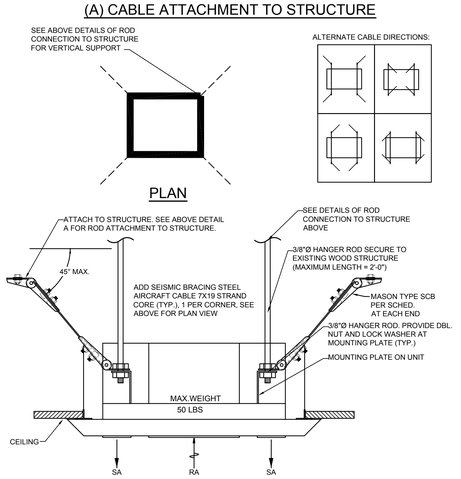
SCALE	
NONE	11



(B) ROD ATTACHMENT TO STRUCTURE



(A) CABLE ATTACHMENT TO STRUCTURE

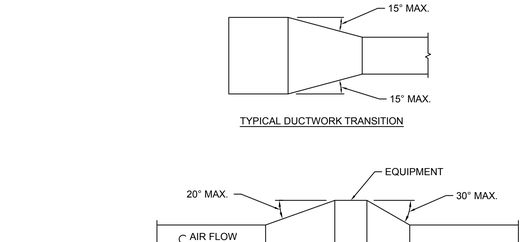


FOR REFERENCE SEE OPM# 0043-13

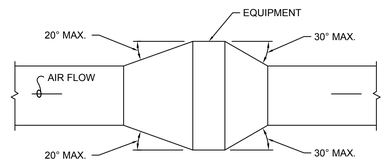
MAXIMUM EQUIPMENT WEIGHT	MASON SCB/SCBH SIZE	STEEL CABLE DIA.	MINIMUM ROD DIAMETER	MASON UC SIZE/ SPACING	SEISMIC ANCHORAGE
					WOOD
50	1	1/8	3/8	1/22"	1/2" DIA X 4" EMBED.

IN-CEILING FAN COIL CASSETTE MOUNTING DETAIL

SCALE	
NONE	7



TYPICAL DUCTWORK TRANSITION

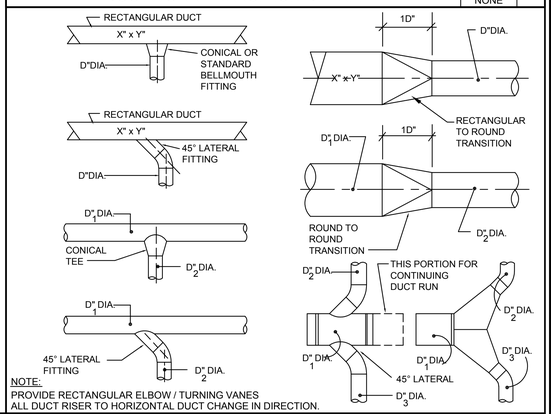


TYPICAL DUCTWORK TRANSITION WITH EQUIPMENT MOUNTED IN DUCT

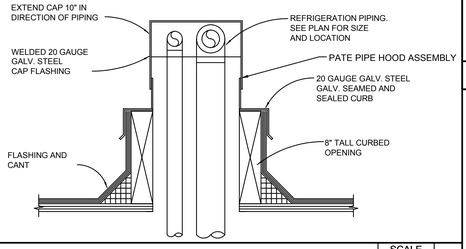
NOTE:
UNLESS OTHERWISE INDICATED ON PLANS, MAXIMUM ANGLES SHOWN SHALL APPLY.

DUCTWORK TRANSITION DETAIL

SCALE	
NONE	4

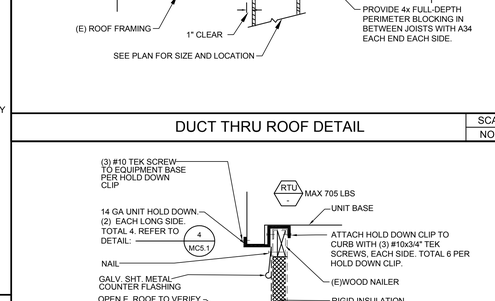


NOTE:
PROVIDE RECTANGULAR ELBOW / TURNING VANES
ALL DUCT RISER TO HORIZONTAL DUCT CHANGE IN DIRECTION.



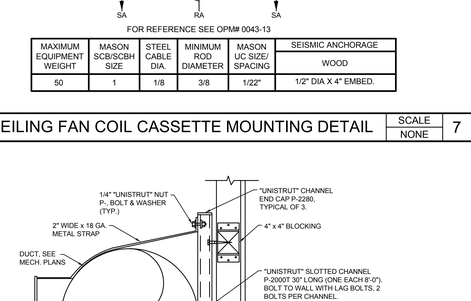
REFRIGERANT PIPING THRU' ROOF DETAIL

SCALE	
NONE	13



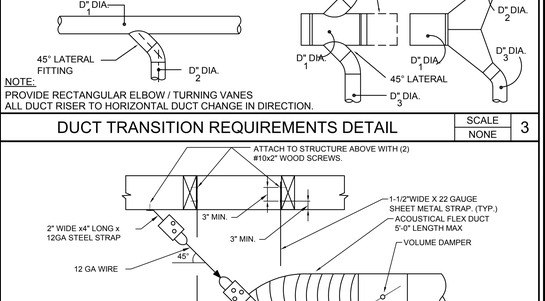
DUCT THRU ROOF DETAIL

SCALE	
NONE	10



TYPICAL DUCT MOUNTING DETAIL

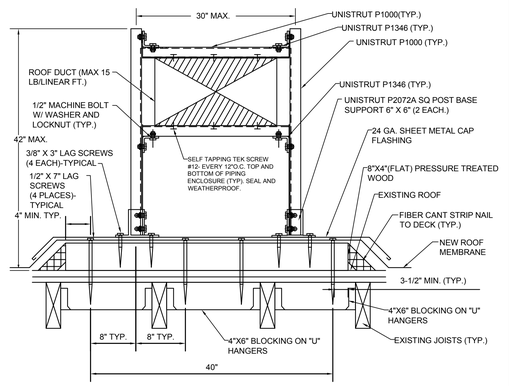
SCALE	
NONE	6



CEILING DIFFUSER MOUNTING DETAIL

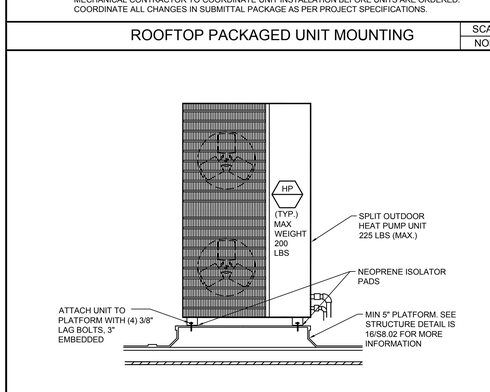
SCALE	
NONE	2

NOTE:
1. CONTRACTOR TO VERIFY FOR FINAL DIMENSIONS PRIOR ORDERING.
2. INSTALLATION PER LATEST SMACNA. MOUNT 12"-0" O.C AND AT ALL THE DUCTWORK CHANGE OF DIRECTION.



ROOF TOP DUCT SUPPORT DETAIL

SCALE	
NONE	12



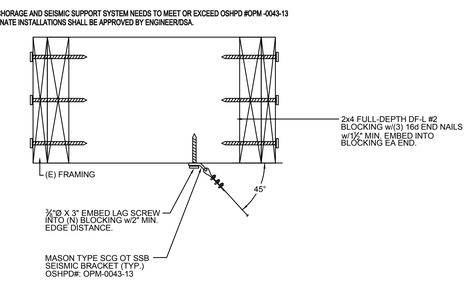
NOTE:
MECHANICAL CONTRACTOR TO COORDINATE UNIT INSTALLATION BEFORE UNITS ARE ORDERED. COORDINATE ALL CHANGES IN SUBMITTAL PACKAGE AS PER PROJECT SPECIFICATIONS.

ROOFTOP PACKAGED UNIT MOUNTING

SCALE	
NONE	9

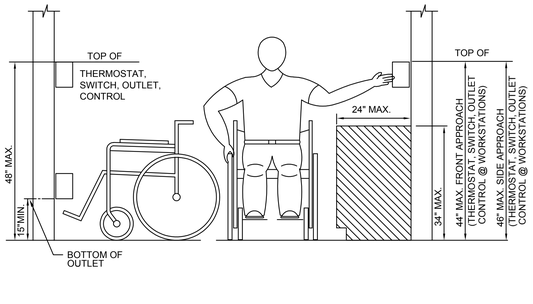
HEAT PUMP UNIT ANCHORAGE DETAIL

SCALE	
NONE	8



AIRCRAFT CABLE ANCHORAGE DETAIL

SCALE	
NONE	5



CONTROLS DEVICE MOUNTING DETAIL

SCALE	
NONE	1

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JOB # 2020029.02

SHEET # MC5.0

NOT USED

SCALE NONE 11

NOT USED

SCALE NONE 7

For wood, concrete and steel attachments see Roof Anchorage Detail, Form No. CB-60.

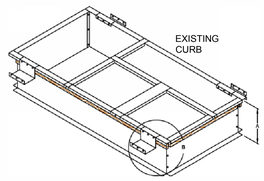
Will conform to seismic code requirements for knock-down or pre-assembled application. (Contact factory for assembled version.)

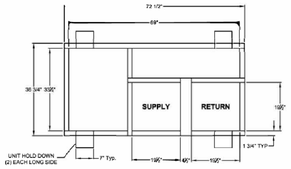
STRUCTURALLY CALCULATED HOLD DOWN CLIPS FOR KNOCK-DOWN ROOF CURBS FOR YORK UNITS

ZR, XN, XP 036-060
ZE, ZF 036-072

ProVent P/N	A	WEIGHT	SEISMIC KIT P/N	WEIGHT
CBKDSUN367206	6"	67 Lbs		
CBKDSUN367211	11"	79 Lbs	KDKITSUN3672	6 Lbs
CBKDSUN367214	14"	91 Lbs		

Meets seismic requirements for the following codes:
CEC 2019
IBC 2018





HOLD DOWN DETAIL

DETAIL B

CORNER DETAIL

ProVent

3847 WABASH DRIVE
MIRA LOMA, CA 91725

PHONE (951) 685-1101
FAX (619) 872-9799

SUBMITTED TO:
COMPANY:
JOB NAME:
EQUIPMENT:
NOTES:

FORM NO: CBKD-79
PART NUMBER: KDKITSUN3672
DATE: 9/9/2021
REV: 6
DRAWN BY: ALL

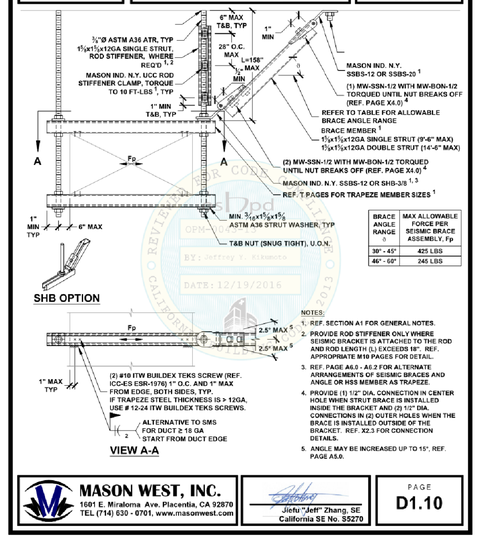
CURB MOUNTING DETAIL

SCALE NONE 4

HANGER ROD DIAMETER = 3/8"

RECTANGULAR DUCT TRANSVERSE SEISMIC SOLID BRACING SYSTEM 30 PLF MAX

KIT OPTIONS
TS12T
TS1220T
TSH312T
TSH320T



BRACE ANGLE RANGE ϕ	MAX ALLOWABLE FORCE PER SEISMIC BRACE ASSEMBLY, Fp
30° - 45°	425 LBS
46° - 60°	240 LBS

NOTES:
1. REF. SECTION A1 FOR GENERAL NOTES.
2. PROVIDE ROD STIFFENER ONLY WHERE SEISMIC BRACKET IS ATTACHED TO THE ROD AND ROD LENGTH (L) EXCEEDS 18". REF. APPROPRIATE M10 PAGES FOR DETAIL.
3. REF. PAGE A6.0 - A6.2 FOR ALTERNATE ARRANGEMENTS OF SEISMIC BRACES AND ANGLE OR HSS MEMBER AS TRAPEZE.
4. PROVIDE (1) 1/2" DIA. CONNECTION IN CENTER HOLE WHEN STRUT BRACE IS INSTALLED INSIDE THE BRACKET AND (2) 1/2" DIA. CONNECTIONS IN (2) OUTER HOLES WHEN THE BRACE IS INSTALLED OUTSIDE OF THE BRACKET. REF. X2.3 FOR CONNECTION DETAILS.
5. ANGLE MAY BE INCREASED UP TO 15°. REF. PAGE A5.0.

MASON WEST, INC.
1601 E. Miraloma Ave. Placentia, CA 92870
TEL (714) 630 - 0701, www.masonwest.com

Jiefu "Jeff" Zhang, SE
California SE No. S5270

PAGE **D1.10**

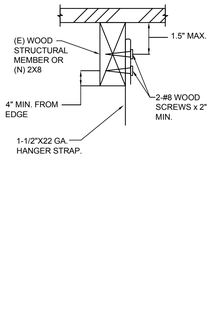
RECTANGULAR DUCT MOUNTING DETAIL

SCALE NONE 2

12/19/2016 OPM-0043-13: Reviewed for Code Compliance by Jeffrey Kikumoto Page 254 of 673

NOT USED

SCALE NONE 10

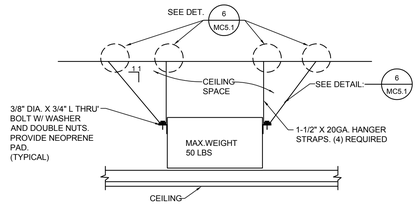


DUCTWORK CONNECTION TO WOOD STRUCTURE DETAIL

SCALE NONE 6

NOT USED

SCALE NONE 9



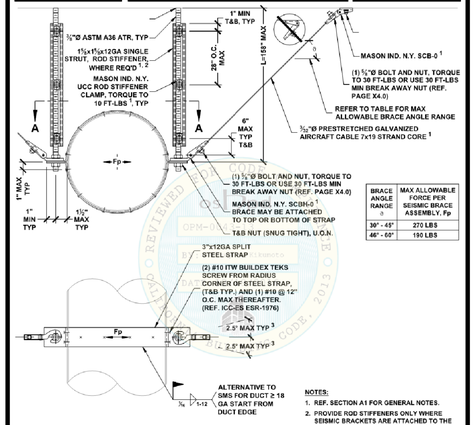
SUPPLY FAN MOUNTING DETAIL

SCALE NONE 5

HANGER ROD DIAMETER = 3/8"

ROUND DUCT TRANSVERSE SEISMIC CABLE BRACING SYSTEM 30 PLF MAX

KIT OPTIONS
TC0T



BRACE ANGLE RANGE ϕ	MAX ALLOWABLE FORCE PER SEISMIC BRACE ASSEMBLY, Fp
30° - 45°	270 LBS
46° - 60°	190 LBS

NOTES:
1. REF. SECTION A1 FOR GENERAL NOTES.
2. PROVIDE ROD STIFFENERS ONLY WHERE SEISMIC BRACKETS ARE ATTACHED TO THE ROD AND ROD LENGTH (L) EXCEEDS 18". REF. APPROPRIATE M10 PAGES FOR DETAIL.
3. ANGLE MAY BE INCREASED TO 15°. REF. PAGE A5.0.

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California SE No. S5270

PAGE **D6.10**

ROUND DUCT SUPPORT DETAIL

SCALE NONE 3

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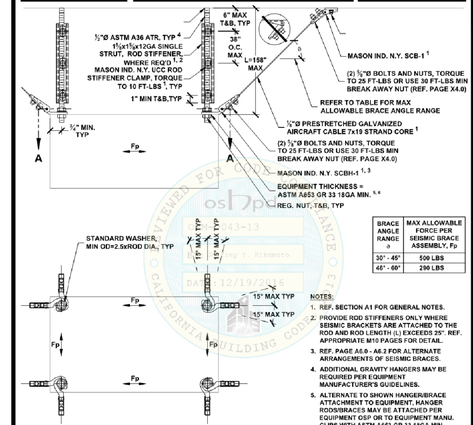
HANGER ROD DIAMETER = 3/8"

SUSPENDED EQUIPMENT SEISMIC CABLE BRACING SYSTEM 375 LB MAX VERTICAL LOAD PER HANGER

KIT OPTIONS
C1SE



BRACE ANGLE RANGE ϕ	MAX ALLOWABLE FORCE PER SEISMIC BRACE ASSEMBLY, Fp
30° - 45°	500 LBS
46° - 60°	290 LBS

NOTES:
1. REF. SECTION A1 FOR GENERAL NOTES.
2. PROVIDE ROD STIFFENERS ONLY WHERE SEISMIC BRACKETS ARE ATTACHED TO THE ROD AND ROD LENGTH (L) EXCEEDS 25". REF. APPROPRIATE M10 PAGES FOR DETAIL.
3. REF. PAGE A6.0 - A6.2 FOR ALTERNATE ARRANGEMENTS OF SEISMIC BRACES.
4. ADDITIONAL GRAVITY HANGERS MAY BE REQUIRED PER EQUIPMENT MANUFACTURER'S GUIDELINES.
5. ALTERNATE TO SHOWN HANGER/BRACE ATTACHMENT TO EQUIPMENT, HANGER RODS/BRACES MAY BE ATTACHED PER EQUIPMENT OSP OR TO EQUIPMENT MANU. CLIPS WITH ASTM A653 OR 33 16GA MIN. THICKNESS & 3/4" MIN. STEEL EDGE DISTANCE.
6. ATTACHMENT TO THE EQUIPMENT SHALL BE DESIGNED AND SUBMITTED TO OSHPD FOR APPROVAL.

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California SE No. S5270

PAGE **D12.11**

SUSPENDED FAN COIL MOUNTING DETAIL

SCALE NONE 1

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PLEASANTON UNIFIED SCHOOL DISTRICT

CONSULTANT

Registered Professional Engineer — Banerjee — No. M29253 Exp. 6/30/23 — Mechanical — State of California

oed optimum energy design
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MECHANICAL DETAILS

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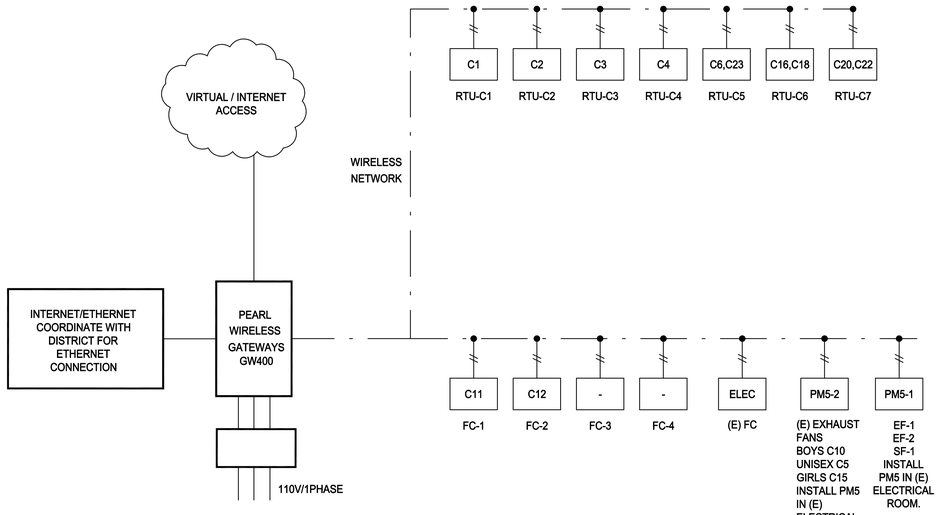
FILE M:\P - Projects\2021\502-21-0007 - AEDIS - Lydiksen ES - Phase 2\04_Mechanical\502-21-0007_MC5.1.dwg Feb 11, 2022 - 11:45am pbhujbal

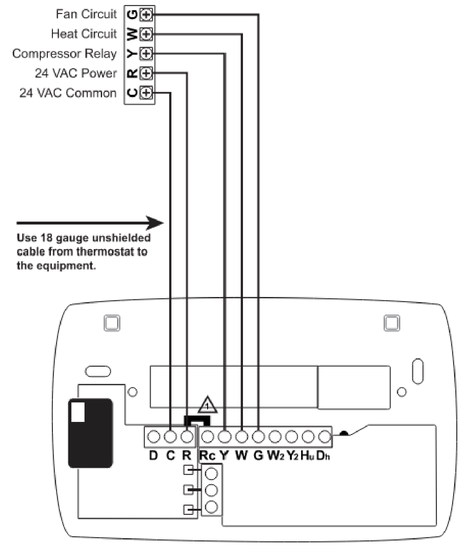


NOTES:

1. SEE MECHANICAL SCHEDULES AND SHEETS FOR FINAL EQUIPMENT COUNT.
2. CONTROL WIRING LOCATED IN CONCEALED SPACES SHALL BE PLENUM RATED CONTROL WIRING. BASE BID SHALL ASSUME CONTROL WIRING IS IN CONDUIT.
3. CONTRACTOR SHALL COORDINATE ALL CONTROL COMPONENTS AND ACCESSORIES WITH RTU AND HEAT PUMP MANUFACTURER PRIOR TO ORDERING EQUIPMENT. PROVIDE ALL COMPONENTS AND ACCESSORIES FOR FULLY FUNCTION SYSTEM.

PELICAN WIRELESS COMMUNICATION DIAGRAM

5 Wire, 24VAC Conventional 1 stage cooling with 1 stage heat



⚠1 For a Two Transformer System – remove jumper between R and Rc. Connect the 24VAC power for energizing the unit's Compressor to thermostat's (R) terminal. Connect second 24VAC power to thermostat's (Rc) terminal.

NOTES:

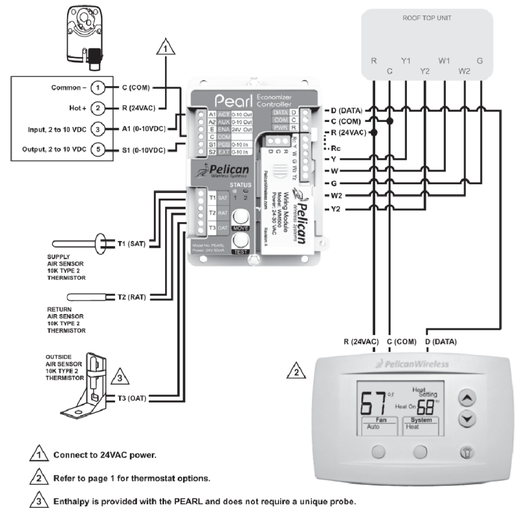
1.) COORDINATE WITH PELICAN CONTROLS AND SPLIT HEAT PUMP/FAN COIL UNIT MANUFACTURE FOR ALL COMPONENTS AND ACCESSORIES PRIOR TO ORDER. PROVIDE ALL COMPONENTS AND ACCESSORIES FOR FULLY FUNCTION SYSTEM.

2.) VERIFY WITH EXISTING COOLING ONLY UNIT MANUFACTURE IN ELEC. ROOM FOR ALL COMPONENTS AND ACCESSORIES PRIOR TO ORDER. PROVIDE ALL COMPONENT AND ACCESSORIES FOR FULLY FUNCTIONAL SYSTEM.

3.) FOR FC1/HP1 AND FC2/HP2, VERIFY NUMBER OF WIRING WITH MANUFACTURER AND COORDINATE WITH PELICAN CONTROLS PRIOR TO ORDER.

4

SPLIT HEAT PUMP / FAN COIL UNIT



NOTES:

1. REPLACE OR BY-PASS EXISTING FACTORY ECONOMIZER CONTROLS TO INSTALL PELICAN CONTROLS. COORDINATE WITH PELICAN CONTROLS AND RTU MANUFACTURE FOR ALL COMPONENTS AND ACCESSORIES PRIOR TO ORDER. PROVIDE ALL COMPONENTS AND ACCESSORIES FOR FULLY FUNCTION SYSTEM.

⚠1 Connect to 24VAC power.
⚠2 Refer to page 1 for thermostat options.
⚠3 Enthalpy is provided with the PEARL and does not require a unique probe.

RTU - PEARL ECONOMIZER CONFIGURATION

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STATE OF CALIFORNIA
Envelope Component Approach
NRCC-ENV-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ENV-E
Project Name:	Lydiksen Elementary School	Report Page:	(Page 6 of 8)
Project Address:	7700 Highland Oaks Dr.	Date Prepared:	10/25/2021

K. FENESTRATION AND GLAZED DOOR SCHEDULE

[2]The NA6 Default Calculation can only be used for buildings with less than 200ft² of site built glazing. If the project has greater than 200ft², the only options for determining fenestration values are NFRC Certification or the Default Tables in 110.6.

[3] Overhangs must extend past the left and right window the same distance as the depth of the overhang or greater to show an affect on the RSHGC. If an overhang does not meet this requirement, the affect of the overhang will be ignored.

[4]Projecting includes casement and awning windows.

Area-Weighted Average U-factor, SHGC, VT Compliance Calculation for Vertical Fenestration And Glazed Doors

01	02	03	04	05
Product Performance Unit	Total Area of Fenestration (ft²)	Area-weighted Calculation for Fenestration		Compliance Results Using Area-Weighted Calculation Option
		Required	Designed	
U-Factor	623	0	0	COMPLIES
(R)SHGC	623	0	0	COMPLIES
VT	623	0	0	COMPLIES

L. DAYLIGHT IN LARGE ENCLOSED SPACES

This section does not apply to this project.

M. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by the permit applicant, an explanation should be included 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/

Yes	No	Form/Title	Field Inspector Pass	Field Inspector Fail
●	○	NRCI-ENV-01-E - Must be submitted for all buildings	☐	☐

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft

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STATE OF CALIFORNIA
Envelope Component Approach
NRCC-ENV-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ENV-E
Project Name:	Lydiksen Elementary School	Report Page:	(Page 7 of 8)
Project Address:	7700 Highland Oaks Dr.	Date Prepared:	10/25/2021

N. 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, form user must provide an explanation 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/. Individals who perform the field testing and verification work, and provide the information required for completion of the fenestration Certificate of Acceptance documentation are not required to be licensed professionals. However, the person who signs the Certificate of Acceptance document to certify compliance with the acceptance requirements shall be licensed as specified in Standards Section 10-103(a)4 and NA7.3.1

Yes	No	Form/Title	Field Inspector Pass	Field Inspector Fail
●	○	NRCA-ENV-02-F must be submitted for all new, added or altered fenestration.	☐	☐

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft

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STATE OF CALIFORNIA
Envelope Component Approach
NRCC-ENV-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ENV-E
Project Name:	Lydiksen Elementary School	Report Page:	(Page 8 of 8)
Project Address:	7700 Highland Oaks Dr.	Date Prepared:	10/25/2021

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Priyanka Bhujbal	Documentation Author Signature:
Company: Optimum Energy Design	Signature Date:10-25-2021
Address: 5515 Doyle St., Suite 4	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Emeryville CA 94608	Phone: (510) 837-9182

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:	Responsible Designer Signature:
Company:	Date Signed: 2021-10-25
Address:	License:
City/State/Zip:	Phone:

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003 Schema Version: rev 20200601 — Report Generated: 2021-10-25 16:58:44

STATE OF CALIFORNIA
Envelope Component Approach
NRCC-ENV-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ENV-E
Project Name:	Lydiksen Elementary School	Report Page:	(Page 5 of 8)
Project Address:	7700 Highland Oaks Dr.	Date Prepared:	10/25/2021

K. FENESTRATION AND GLAZED DOOR SCHEDULE

Vertical Fenestration And Glazed Doors- U-factor, Solar Heat Gain Coefficient (RSHGC/ SHGC), Visible Transmittance (VT)

04 Tag/Plan Detail ID	05 Fenestration Type	06 Occupancy & Status	07 (R)SHGC Compliance Method	08 VT Compliance Method	09 Calculation Method for Performance Values per Design[2]	10 Product Performance Unit	11 Required Product Performance	12 Product Performance per Design	13 Area ft²
Window	Fixed window	Nonresidential/ Relocatable 1 CZ : New	Table 140.3-B/C/D	Table 140.3-B/C/D	§110.6 Defaults	U-factor (max)	1.19	1.19	61
					☐ Overhang used for RSHGC	(R)SHGC (max)	0.83	0.83	
						VT (min)	1	0	
Window	Fixed window	Nonresidential/ Relocatable 1 CZ : New	Table 140.3-B/C/D	Table 140.3-B/C/D	§110.6 Defaults	U-factor (max)	1.19	1.19	39
					☐ Overhang used for RSHGC	(R)SHGC (max)	0.83	0.83	
						VT (min)	1	0	
Window	Fixed window	Nonresidential/ Relocatable 1 CZ : New	Table 140.3-B/C/D	Table 140.3-B/C/D	§110.6 Defaults	U-factor (max)	1.19	1.19	24
					☐ Overhang used for RSHGC	(R)SHGC (max)	0.83	0.83	
						VT (min)	1	0	
Window	Fixed window	Nonresidential/ Relocatable 1 CZ : New	Table 140.3-B/C/D	Table 140.3-B/C/D	§110.6 Defaults	U-factor (max)	1.19	1.19	39
					☐ Overhang used for RSHGC	(R)SHGC (max)	0.83	0.83	
						VT (min)	1	0	
Window	Fixed window	Nonresidential/ Relocatable 1 CZ : New	Table 140.3-B/C/D	Table 140.3-B/C/D	§110.6 Defaults	U-factor (max)	1.19	1.19	60
					☐ Overhang used for RSHGC	(R)SHGC (max)	0.83	0.83	
						VT (min)	1	0	
Window	Fixed window	Nonresidential/ Relocatable 1 CZ : New	Table 140.3-B/C/D	Table 140.3-B/C/D	§110.6 Defaults	U-factor (max)	1.19	1.19	39
					☐ Overhang used for RSHGC	(R)SHGC (max)	0.83	0.83	
						VT (min)	1	0	

[1]FOOTNOTES: If any individual fenestration product is non-compliant, products may show compliance using an area-weighted calculation. Chromogenic glazing is not included in area-weighted calculations. Area-weighted calculation shown in separate area-weighted table below.

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft

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STATE OF CALIFORNIA
Envelope Component Approach
NRCC-ENV-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ENV-E
Project Name:	Lydiksen Elementary School	Report Page:	(Page 4 of 8)
Project Address:	7700 Highland Oaks Dr.	Date Prepared:	10/25/2021

K. FENESTRATION AND GLAZED DOOR SCHEDULE

Vertical Fenestration And Glazed Doors- U-factor, Solar Heat Gain Coefficient (RSHGC/ SHGC), Visible Transmittance (VT)

04 Tag/Plan Detail ID	05 Fenestration Type	06 Occupancy & Status	07 (R)SHGC Compliance Method	08 VT Compliance Method	09 Calculation Method for Performance Values per Design[2]	10 Product Performance Unit	11 Required Product Performance	12 Product Performance per Design	13 Area ft²
Window	Fixed window	Nonresidential/ Relocatable 1 CZ : New	Table 140.3-B/C/D	Table 140.3-B/C/D	§110.6 Defaults	U-factor (max)	1.19	1.19	60
					☐ Overhang used for RSHGC	(R)SHGC (max)	0.83	0.83	
						VT (min)	1	0	
Window	Fixed window	Nonresidential/ Relocatable 1 CZ : New	Table 140.3-B/C/D	Table 140.3-B/C/D	§110.6 Defaults	U-factor (max)	1.19	1.19	39
					☐ Overhang used for RSHGC	(R)SHGC (max)	0.83	0.83	
						VT (min)	1	0	
Window	Fixed window	Nonresidential/ Relocatable 1 CZ : New	Table 140.3-B/C/D	Table 140.3-B/C/D	§110.6 Defaults	U-factor (max)	1.19	1.19	61
					☐ Overhang used for RSHGC	(R)SHGC (max)	0.83	0.83	
						VT (min)	1	0	
Window	Fixed window	Nonresidential/ Relocatable 1 CZ : New	Table 140.3-B/C/D	Table 140.3-B/C/D	§110.6 Defaults	U-factor (max)	1.19	1.19	39
					☐ Overhang used for RSHGC	(R)SHGC (max)	0.83	0.83	
						VT (min)	1	0	
Window	Fixed window	Nonresidential/ Relocatable 1 CZ : New	Table 140.3-B/C/D	Table 140.3-B/C/D	§110.6 Defaults	U-factor (max)	1.19	1.19	61
					☐ Overhang used for RSHGC	(R)SHGC (max)	0.83	0.83	
						VT (min)	1	0	
Window	Fixed window	Nonresidential/ Relocatable 1 CZ : New	Table 140.3-B/C/D	Table 140.3-B/C/D	§110.6 Defaults	U-factor (max)	1.19	1.19	39
					☐ Overhang used for RSHGC	(R)SHGC (max)	0.83	0.83	
						VT (min)	1	0	

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003 Schema Version: rev 20200601 — Report Generated: 2021-10-25 16:58:44

STATE OF CALIFORNIA
Envelope Component Approach
NRCC-ENV-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ENV-E
Project Name:	Lydiksen Elementary School	Report Page:	(Page 3 of 8)
Project Address:	7700 Highland Oaks Dr.	Date Prepared:	10/25/2021

I. FLOOR ASSEMBLY SCHEDULE

This section does not apply to this project.

J. EXTERIOR DOOR SCHEDULE

This section does not apply to this project.

K. FENESTRATION AND GLAZED DOOR SCHEDULE

This table demonstrates compliance with prescriptive fenestration requirements in §140.3(a)5 for new constructions or additions, or §140.1(b)2A for alterations. Exterior doors that are more than one-half glass in area are considered Glazed Doors and should be documented on this table with fenestration.

01	Indicate fenestration types included in the project:[1]	☒ Vertical (alterations)	☐ Vertical (new)	☐ Skylights	☐ Glazed Doors (new only)

[1] FOOTNOTES: Floor types indicated above as "(new only)" do not have Title 24, Part 6 requirements for alterations. New construction and additions do have requirements and should be clicked above and compliance demonstrated within this table.

Vertical Fenestration And Glazed Doors- U-factor, Solar Heat Gain Coefficient (RSHGC/ SHGC), Visible Transmittance (VT)

01	☒	Calculate Area-Weighted Average U-factor for Vertical Fenestration and Glazed Doors[1]
02	☒	Calculate Area-Weighted Average (R)SHGC for Vertical Fenestration and Glazed Doors[1]
03	☒	Calculate Area-Weighted Average VT for Vertical Fenestration and Glazed Doors[1]

Vertical Fenestration And Glazed Doors- U-factor, Solar Heat Gain Coefficient (RSHGC/ SHGC), Visible Transmittance (VT)

04 Tag/Plan Detail ID	05 Fenestration Type	06 Occupancy & Status	07 (R)SHGC Compliance Method	08 VT Compliance Method	09 Calculation Method for Performance Values per Design[2]	10 Product Performance Unit	11 Required Product Performance	12 Product Performance per Design	13 Area ft²
Window	Fixed window	Nonresidential/ Relocatable 1 CZ : New	Table 140.3-B/C/D	Table 140.3-B/C/D	§110.6 Defaults	U-factor (max)	1.19	1.19	23
					☐ Overhang used for RSHGC	(R)SHGC (max)	0.83	0.83	
						VT (min)	1	0	
Window	Fixed window	Nonresidential/ Relocatable 1 CZ : New	Table 140.3-B/C/D	Table 140.3-B/C/D	§110.6 Defaults	U-factor (max)	1.19	1.19	39
					☐ Overhang used for RSHGC	(R)SHGC (max)	0.83	0.83	
						VT (min)	1	0	

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003 Schema Version: rev 20200601 — Report Generated: 2021-10-25 16:58:44

STATE OF CALIFORNIA
Envelope Component Approach
NRCC-ENV-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ENV-E
Project Name:	Lydiksen Elementary School	Report Page:	(Page 2 of 8)
Project Address:	7700 Highland Oaks Dr.	Date Prepared:	10/25/2021

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through L. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see the applicable table referenced below.

Opaque Envelope Components					Fenestration	Daylighting Spaces > 5,000ft²[1]	Compliance Results
Roof Assembly	Roofing Materials	Walls	Floors	Doors			
01	02	03	04	05	06	07	08
(See Table F)	(See Table G)	(See Table H)	(See Table I)	(See Table J)	(See Table K)	(See Table L)	COMPLIES
Yes	Yes	Yes		Yes	Yes		

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

F. ROOF ASSEMBLY SCHEDULE

This section does not apply to this project.

G. RATED ROOFING MATERIAL (COOL ROOF)

This section does not apply to this project.

H. WALL ASSEMBLY SCHEDULE

This table demonstrates compliance with prescriptive wall assembly requirements in §140.3(a)2 and §140.3(a)3 for new constructions or additions, or mandatory wall assembly requirements in §141.0(b)1B for alterations.

01	Indicate wall types included in the project:[1]	☐ Framed	☐ Mass (new only)	☐ Concrete Sandwich Panel (new only)	☐ SIPS	☐ ICF (new only)
		☐ Metal Panels	☐ Metal Building	☐ Spandrel/ Curtain Wall	☐ Straw Bale	☐ Log Home (new only)

[1] FOOTNOTES: Wall types indicated above as "(new only)" do not have Title 24, Part 6 requirements for alterations. New construction and additions do have requirements and should be clicked above and compliance demonstrated within this table.

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003 Schema Version: rev 20200601 — Report Generated: 2021-10-25 16:58:44

STATE OF CALIFORNIA
Envelope Component Approach
NRCC-ENV-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ENV-E
Project Name:	Lydiksen Elementary School	Report Page:	(Page 1 of 8)
Project Address:	7700 Highland Oaks Dr.	Date Prepared:	10/25/2021

This document is used to demonstrate compliance with mandatory requirements in §110.8(g) and §120.7(b) for newly constructed buildings, and §141.0(b)1 for alterations, related to roof, wall and floor assemblies. It is also used to demonstrate compliance with prescriptive requirements in §140.3 for newly constructed buildings, and §141.0 for additions and alterations, related to roof, wall, floor, door, fenestration and daylighting requirements.

A. GENERAL INFORMATION

01	Project Location (city)	Pleasanton	05	# of Stories (Habitable Above Grade)	1
02	Zipcode	94588	06	Total Conditioned Floor Area (ft²)	7711.3
03	Climate Zone	12	07	Total Unconditioned Floor Area (ft²)	192
04	Occupancy Types Within Project: (select all that apply): If one occupancy constitutes >= 80% of the conditioned floor area, the entire building envelope may be designed to comply with the provisions of that occupancy per §100.0(f).		08	☐ Project includes unconditioned enclosed space(s) > 5,000 ft² under a roof with a ceiling height of at least 15 ft.[1]	
☒ All Nonresidential, including Relocatable Public School Building certified for use in one climate zone Occupancy: A / B / E / F / H / M / S / U		☐ Relocatable Public School Building for use in all climate zones Occupancy: E	☐ High-Rise Residential Occupancy: R-2 / R-3	☐ Hotel/Motel Guest Rooms Occupancy: R-1	

[1] FOOTNOTE: Enclosed spcaces > 5,000 ft² directly under roof with ceiling height > 15 ft in climate zones 2 through 15 are required to meet the minimum daylighting requirements defined in §140.3(c). Compliance with §140.3(c) is documented in Table L. This is the only prescriptive requirement which applies to unconditioned spaces.

B. PROJECT SCOPE

This table specifies project envelope components within the permit application demonstrating compliance using the prescriptive paths outlined in §140.3, and §141.0(a)1 and §141.0(b)1 and 2 for additions and alterations.

My project consists of (check all that apply)		Component Types				
01		02				
☐ New Construction or Newly Conditioned Space		☐	Walls	☐	Exterior Doors	
☐ One or more enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15ft	☐ Roof	☐	Floors	☐	Fenestration/ Glazing Doors[1]	
☐ Addition of conditioned space		☐	Walls	☐	Exterior Doors	
☐ One or more enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15ft	☐ Roof	☐	Floors	☐	Fenestration/ Glazing Doors[1]	
☒ Alteration of conditioned space	☐ Roof Assembly	☒	Walls		Exterior Doors NA. for Alts.	
☐ One or more enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15ft and lighting system installed for the first time	☐ Roofing Material	☐	Floors	☒	Fenestration/ Glazing Doors	

[1]FOOTNOTE: Doors that are more than one-half glass in area are considered Glazed Doors and should be documented on table K with fenestration.

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003 Schema Version: rev 20200601 — Report Generated: 2021-10-25 16:58:44

PROJECT

LYDIKSEN ELEMENTARY SCHOOL MODERNIZATION

PLEASANTON UNIFIED SCHOOL DISTRICT

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER — BANERJEE — No. M29253 Exp. 6/30/23 — MECHANICAL — STATE OF CALIFORNIA

optimum energy design
Consulting Engineers
5515 Doyle Street
Suite 4
Emeryville, CA 94608
Telephone: (510) 837-9182

STAMP

STATE

DSA FILE NUMBER 1-32
APPL # 01-119816

REVISIONS

△
△

MILESTONES

SD	06/21/2021
DD	
50% CD	09/20/2021
90% CD	10/14/2021
DSA SUB	10/19/2021

SHEET

TITLE 24 COMPLIANCE REPORT

DATE 10/19/2021

JOB # 2020029.02

SHEET # M8.0

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

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 completed by a HERS Rater and provided to the building inspector during construction. The final documents must be created by a HERS Providers registry, but drafts can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCV/

YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
○	◉	NRCV-MCH-04-H Duct Leakage Test *NOTE: Must be completed by a HERS Rater*	☐	☐
○	◉	NRCV-MCH-24 Enclosure Air Leakage Worksheet *NOTE: Must be completed by a HERS Rater*	☐	☐
○	◉	NRCV-MCH-27 High-rise Residential *NOTE: Must be completed by a HERS Rater*	☐	☐
○	◉	NRCV-MCH-32 Local Mechanical Exhaust *NOTE: Must be completed by a HERS Rater*	☐	☐

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

Table Instructions: Indicate where mandatory measures are documented in the plan set or construction documentation. For any mandatory measures that do not apply, mark the plan sheet or construction document location as "N/A"; any active cells that are left blank will result in non-compliance in Table C.

	02
01	Plan sheet or construction document location
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block:	Yes — MC-0.1

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Priyanka Bhujbal	Documentation Author Signature:
Company: Optimum Energy Design	Signature Date:02/08/2022
Address: 5515 Doyle street, Suite 4	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Emeryville, CA,94608	Phone: 510-837-9182

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: Abby Banerjee	Responsible Designer Signature:
Company: Optimum Energy Design	Date Signed:02/08/2022
Address: 5515 Doyle Street , Suite 4	License:#m29253
City/State/Zip: Emeryville CA 94608	Phone:714-693-2277

O. 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 can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

YES	NO	Form/Title	Systems To Be Field Verified	Field Inspector Pass	Field Inspector Fail
○	◉	NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. *Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.*		☐	☐
○	◉	NRCA-MCH-03-A Constant Volume Single Zone HVAC *NOTE: This form does not automatically move to "Yes". If Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes".*		☐	☐
○	◉	NRCA-MCH-04-A Air Distribution Duct Leakage		☐	☐
◉	○	NRCA-MCH-05-A Air Economizer Controls		☐	☐
○	◉	NRCA-MCH-06-A Demand Control Ventilation Systems Acceptance must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO_2) concentration setpoints.		☐	☐
○	◉	NRCA-MCH-07-A Supply Fan Variable Flow Controls		☐	☐
○	◉	NRCA-MCH-08-A Valve Leakage Test		☐	☐
○	◉	NRCA-MCH-09-A Supply Water Temperature Reset Controls		☐	☐
○	◉	NRCA-MCH-10-A Hydronic System Variable Flow Controls		☐	☐
○	◉	NRCA-MCH-11-A Automatic Demand Shed Controls		☐	☐

○	◉	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units		☐	☐
◉	○	NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance		☐	☐
○	◉	NRCA-MCH-14-A Distributed Energy Storage DX AC Systems Acceptance *NOTE: This form does not automatically move to "Yes". If Distributed Energy Storage DX AC Systems are included in the scope, permit applicant should move this form to "Yes".*		☐	☐
○	◉	NRCA-MCH-15-A Thermal Energy Storage (TES) System Acceptance *NOTE: This form does not automatically move to "Yes". If Chilled Water Storage, Ice-on-Coil Internal Melt, Ice-on-Coil External Melt, Ice Harvestor, Brine, Ice-Slurry, Eutectic Salt, Clathrate Hydrate Slurry (CHS), Cryogenic or Encapulated (Ice Ball) Systems are included in the scope, permit applicant should move this form to "Yes".*		☐	☐
○	◉	NRCA-MCH-16-A Supply Air Temperature Reset Controls		☐	☐
○	◉	NRCA-MCH-17-A Condenser Water Temperature Reset Controls		☐	☐
○	◉	NRCA-MCH-18 Energy Management Control Systems		☐	☐
○	◉	NRCA-MCH-19 Occupancy Sensor Controls		☐	☐
○	◉	NRCA-MCH-20 Multi-Family Ventilation		☐	☐
○	◉	NRCA-MCH-21 Multi-Family Envelope Leakage		☐	☐

Table Continued

The answers to the questions below apply to the following duct system(s):	RTU-C1/C2/C3/C4/C5/C6/C7	Duct leakage testing triggered for these systems?	No

11	No	The scope of the project includes only duct systems serving healthcare facilites.
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 crawlspace
	☐	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 accordance with the California Mechanical Code.

M. COOLING TOWERS

This Section Does Not Apply

N. 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://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

YES	NO	Form/Title	Systems To Be Field Verified	Field Inspector Pass	Field Inspector Fail
◉		NRCI-MCH01-E - Must be submitted for all buildings.		☐	☐

Table Continued

Total System Design Supply Airflow (CFM):	2,500	Total System Design (BJHP:	2.12	**Maximum System Fan Power (BJHP:**	

[1] *FOOTNOTE: 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

Table Instructions: Complete the following Table 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 System Name	02 System Zoning	03 Conditioned Floor Area Being Served (ft²)	04 Thermostats	05 Shut-Off Controls §120.2(e)	06 Isolation Zone Controls §120.2(e)	07 Demand Response §110.12 and §120.2(h)	08 Supply Air Temp. Reset §140.4(f)	09 Window Interlocks per §140.4(n)
RTU-C1/C2/C3/C4/C5/C6/C7	single zone	≤ 25,000 ft²	Setback Thermostat	NA: 7 day per §120.2(e)1	NA: Single Zone	DR Tstat per §110.12	NA: Single Zone	NA: Alteration project

[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 Section Does Not Apply

K. TERMINAL BOX CONTROLS

This Section Does Not Apply

L. DISTRIBUTION (DUCTWORK AND PIPING)

Table Instructions: Complete the following tables 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

Table Continued

01 Fan Name or Item Tag	02 Fan Function	03 Qty	04 Maximum Design Supply Airflow (CFM)	05 HP Unit[2]	06 Design HP	07 Fan Power Pressure Drop Adjustment - Table 140.4-B: Device	08 Fan Power Pressure Drop Adjustment - Table 140.4-B: Design Airflow through Device (CFM)
RTU-C1/C2/C7	Supply	1	1,600	BHP	1.04	None used	
						Calculated Adjustment (in H_2O)	

Total System Design Supply Airflow (CFM):	1,600	Total System Design (BJHP:	1.04	**Maximum System Fan Power (BJHP:**	
System Name: RTU-C3/C4/C6	**Economizer:**[1]	Fixed Temperature	**Economizer Controls:**	Designed per §140.4(e) and (m)	**System Fan Type:** Constant Volume

01 Fan Name or Item Tag	02 Fan Function	03 Qty	04 Maximum Design Supply Airflow (CFM)	05 HP Unit[2]	06 Design HP	07 Fan Power Pressure Drop Adjustment - Table 140.4-B: Device	08 Fan Power Pressure Drop Adjustment - Table 140.4-B: Design Airflow through Device (CFM)
RTU-C3/C4/C6	Supply	1	1,200	BHP	0.79	None used	
						Calculated Adjustment (in H_2O)	

Total System Design Supply Airflow (CFM):	1,200	Total System Design (BJHP:	0.79	**Maximum System Fan Power (BJHP:**	
System Name: RTU-C5	**Economizer:**[1]	Fixed Temperature	**Economizer Controls:**	Designed per §140.4(e) and (m)	**System Fan Type:** Constant Volume

01 Fan Name or Item Tag	02 Fan Function	03 Qty	04 Maximum Design Supply Airflow (CFM)	05 HP Unit[2]	06 Design HP	07 Fan Power Pressure Drop Adjustment - Table 140.4-B: Device	08 Fan Power Pressure Drop Adjustment - Table 140.4-B: Design Airflow through Device (CFM)
RTU-C5	Supply	1	2,500	BHP	2.12	None used	
						Calculated Adjustment (in H_2O)	

Table Continued

Table Continued

[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
		Heating Mode				Cooling Mode		
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Min Efficiency Required per Tables 110.2/ Title 20	Design Efficiency	Efficiency Unit	Min Efficiency Required per Tables 110.2/ Title 20	Design Efficiency
RTU-C1/	<65kBtuh cooling/ <225kBtuh heating		AFUE	0.8	0.8			12
								14
RTU-C3/C4/	<65kBtuh cooling/ <225kBtuh heating		AFUE	0.8	0.8	EER	11	12
						SEER	14	14
RTU-C5	<65kBtuh cooling/ <225kBtuh heating		AFUE	0.8	0.8	EER	11	12
						SEER	14	14

G. PUMPS

This Section Does Not Apply

H. FAN SYSTEMS & AIR ECONOMIZERS

Table Instructions: Complete the following Table for fan systems to demonstrate compliance with prescriptive requirements found in §140.4(c), §140.4(d) and §140.4(m). First document the system details, then add fans within that system to document compliance with fan power requirements. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

System Name:	RTU-C1/C2/C7	**Economizer:**[1]	Fixed Temperature	**Economizer Controls:**	Designed per §140.4(e) and (m)	**System Fan Type:**	Constant Volume

Table Continued

D. EXCEPTIONAL CONDITIONS

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

Table H indicates a Fan Power System Index that exceeds the maximum allowed per §140.4(c). Please revise to demonstrate compliance.

E. ADDITIONAL REMARKS

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

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Table Instructions: Complete the following equipment schedules to show compliance 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
				Equipment Sizing per Mechanical Schedule (kBtu/h) §140.4 (a&b)						
				Heating Output[2,4]		Cooling Output[2,3]		Load Calculations[3,4]		
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)	Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible for Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
RTU-C1/C2	Furnace + AC	AC, air cooled, single pkg + warm-air central furnace, gas-fired	Yes	59	59	0	36.7	50.8	59	36.7
RTU-C3/C4	Furnace + AC	AC, air cooled, single pkg + warm-air central furnace, gas-fired	Yes	40	40	0	27.1	36.9	40	27.1
RTU-C5	Furnace + AC	AC, air cooled, single pkg + warm-air central furnace, gas-fired	Yes	80	80	0	46.9	53	80	46.9

Table Continued

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)	Pleasanton CA	04	Total Conditioned Floor Area	8,381
02	Climate Zone	12	05	Total Unconditioned Floor Area	
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):

[1] *FOOTNOTES: Climate zone can be determined on the California Energy Commission's website at http://www.energy.ca.gov/maps/renewable/building_climate_zones.html*

B. PROJECT SCOPE

Table Instructions: Include any 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.

My project consists of (check all that apply)

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:	☐ Hydronic System Piping	☑ Fan Systems
☑ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☑ Ducwork (existing to remain, altered or new)
	☐ Chillers	☐ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

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.

01 System Summary §110.1, §110.2, §140.4	AND	02 Pumps §140.4(k)	AND	03 Fans/ Economizers §140.4(c), §140.4(e)	AND	04 Ventilation Controls §110.2, §120.2, §140.4(l)	AND	05 Ventilation §120.1	AND	06 Terminal Box Controls §140.4(d)	AND	07 Distribution §120.3, §140.4(l)	AND	08 Cooling Towers §110.2(e)2	09 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		AND		AND	Yes	AND		COMPLIES
															Mandatory Measures Compliance (See Table Q for Details)
															COMPLIES

aedis architects
www.aedisarchitects.com
387 S. 1st Street, Suite 300
San Jose, CA 95113
tel: (408)-300-5160
fax: (408)-300-5121

PROJECT

LYDIKSEN ELEMENTARY SCHOOL MODERNIZATION

PLEASANTON UNIFIED SCHOOL DISTRICT

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER — ABBY BANERJEE — No. M29253 Exp. 6/30/23 — MECHANICAL — STATE OF CALIFORNIA

optimum energy design
Consulting Engineers
5515 Doyle Street
Suite 4
Emeryville, CA 94608
Telephone: (510) 837-9182

STAMP

STATE
DSA FILE NUMBER 1-32
APPL # 01-119816

REVISIONS

MILESTONES

SD	06/21/2021
DD	
50% CD	09/20/2021
90% CD	10/14/2021
DSA SUB	10/19/2021

SHEET

TITLE 24 COMPLIANCE REPORT

DATE 10/19/2021
JOB # 2020029.02
SHEET # M8.1

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 2019 CBC, SECTION 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, 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 RESTASTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT 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:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

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, SECTIONS 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 PRE-APPROVED INSTALLATION GUIDE (e.g., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE 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 AND DETAILS.

MP☐MD☐PP☐E☐ - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #0043-13. #_____.

GENERAL NOTES

1. BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, ELEVATIONS AND CHARACTERISTICS OF ALL UTILITIES AND PIPING, AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
2. ALL ACCESSIBLE WATER CLOSETS SHALL HAVE FLUSH VALVE WITH HANDLE ON OPEN SIDE.
3. ALL VALVES, UNIONS, ETC. TO BE SAME SIZE AS PIPE UNLESS OTHERWISE INDICATED ON DRAWINGS.
4. ALL PLUMBING FIXTURE VENTS TO TERMINATE A MINIMUM OF 12 INCHES FROM ANY VERTICAL SURFACE AND 10 FEET FROM ANY OUTSIDE AIR INTAKES.
5. EXACT LOCATIONS AND MOUNTING HEIGHTS OF PLUMBING FIXTURES SHALL BE OBTAINED FROM THE ARCHITECTURAL DRAWINGS.
6. ALL EXTERIOR GAS COCKS, WATER SHUT OFF VALVES AND/OR SEWER CLEANOUTS BELOW GROUND SHALL BE INSTALLED IN YARD BOXES WITH THE COVERS CONSPICUOUSLY MARKED "GAS", "WATER", AND "SEWER" RESPECTIVELY.
7. CONNECTION BETWEEN INCOMPATIBLE MATERIALS ABOVE GRADE AND INSIDE BUILDING SHALL BE MADE WITH TWO (2) DIELECTRIC UNIONS SEPARATED BY A TWELVE INCH (12") SECTION OF RED BRASS PIPE.
8. ALL CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. THE CONTRACTOR SHALL COORDINATE ALL CLEANOUT LOCATIONS WITH EQUIPMENT, CABINETS, ETC., AND THE ARCHITECT PRIOR TO ANY INSTALLATION.
9. SEE ARCHITECTURAL DRAWINGS FOR ACCESSIBLE FIXTURE LOCATIONS AND MOUNTING HEIGHTS. INSULATE ALL EXPOSED HOT WATER AND DRAIN PIPING BELOW ACCESSIBLE LAVATORIES AND SINKS.
10. ALL PLUMBING WORK SHALL BE INSTALLED SO AS TO AVOID INTERFERENCE WITH ELECTRICAL AND MECHANICAL EQUIPMENT AND STRUCTURAL FRAMING.
11. ALL WORK AND MATERIAL SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH CALIFORNIA PLUMBING CODE 2019.
12. THESE DRAWINGS INDICATE THE SEWER, WATER, AND STORM DRAIN SYSTEMS TO POINT OF CONNECTION 5'-0" OUTSIDE OF THE BUILDING. CONTINUATION OF THESE SYSTEMS IS SHOWN ON THE CIVIL DRAWINGS AND IS SPECIFIED UNDER ANOTHER SECTION OF THE SPECIFICATIONS. THE PIPING SHALL BE INSTALLED TO MEET THE INVERT ELEVATIONS SHOWN ON THE CIVIL DRAWINGS.
13. INSULATION (SEE SPECIFICATION FOR TYPE REQUIRED) AND COVERING ON PIPE AND TUBING SHALL HAVE A FLAME SPREAD RATING NOT TO EXCEED 25 AND A SMOKE DENSITY NOT TO EXCEED 50 WHEN TESTED IN ACCORDANCE WITH 2019 C.B.C. SECTION 720.7.
14. ANY ALTERATIONS TO A STRUCTURAL MEMBER, SUCH AS CUTTING, BORING, BRAZING, DRILLING, WELDING, ETC. SHALL HAVE PRIOR WRITTEN APPROVAL OF ARCHITECT, STRUCTURAL ENGINEER AND DSA.
15. ALL BUILDINGS SHALL BE PROVIDED WITH AN AUTOMATIC SPRINKLER SYSTEM PER C.B.C. CHAPTER 9 SECTION 904 & NFPA 13. ALL LOCAL CODES, AND INSURANCE UNDERWRITERS REQUIREMENTS. THE FIRE SPRINKLER CONTRACTOR SHALL SUBMIT AN APPROVED AND STAMPED SET OF DRAWINGS SHOWING ALL SIZES AND LOCATIONS OF FIRE SPRINKLER RISER, PIPING, DETECTOR CHECK VALVE AND ANY OTHER EQUIPMENT REQUIRED. IN ADDITION, SUBMITTAL SHALL BE MADE FOR ALL MATERIAL AND EQUIPMENT.
16. ALL PLUMBING FIXTURES SHALL COMPLY WITH CALGREEN SECTION 5.303.3 FOR WATER FLOW RATES AND VOLUME USAGE.
17. CONTRACTOR TO VERIFY EXACT LOCATION AND SIZES OF ALL PIPING FOR POINT OF CONNECTION PRIOR TO INSTALLATION. CONTACT ENGINEER AND/OR ARCHITECT PRIOR TO COMMENCEMENT OF WORK FOR ANY DISCREPANCIES DISCOVERED IN THE FIELD.

LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	S OR W	SOIL OR WASTE ABOVE FLOOR
	S OR W	SOIL OR WASTE BELOW FLOOR OR GRADE
	V	SANITARY VENT
	CW	COLD WATER
	HW	HOT WATER
	HWR	HOT WATER RETURN
CD	CD	CONDENSATE DRAIN
		DIRECTION OF FLOW
	SOV	SHUT-OFF VALVE
		CIRCUIT SOLVER
	FCO	FLOOR CLEANOUT
	WCO	WALL CLEANOUT
		RISER UP
		RISER DOWN
	ABV	ABOVE
	AP	ACCESS PANEL
	BEL	BELOW
	CLG	CEILING
	CONT	CONTINUATION
	COTG	CLEANOUT TO GRADE
	DN	DOWN
	(E)	EXISTING
	(N)	NEW
	FFE	FINISH FLOOR ELEVATION
	HDR	HEADER
	I.E.	INVERT ELEVATION
	POC	POINT OF CONNECTION
	POD	POINT OF DEMOLITION
	VTR	VENT THRU ROOF
	R.I. & C.	ROUGH-IN & CONNECT

PLUMBING SHEET LIST

Sheet Number	Sheet Title
PC0.1	PLUMBING SCHEDULES, GENERAL NOTES AND LEGEND
PCD2.0	PLUMBING BUILDING C - DEMOLITION FLOOR PLAN - WASTE AND VENT
PCD2.1	PLUMBING BUILDING C - DEMOLITION FLOOR PLAN - WATER AND GAS
PDC3.0	PLUMBING BUILDING C - DEMOLITION ROOF PLAN - GAS PIPING
PDC3.1	PLUMBING BUILDING C - DEMOLITION ROOF PLAN - CONDENSATE PIPING
PC2.0	PLUMBING - BUILDING C - NEW FLOOR PLAN - WASTE AND VENT
PC2.1	PLUMBING - BUILDING C - NEW FLOOR PLAN - WATER AND GAS
PC3.0	PLUMBING - BUILDING C - NEW ROOF PLAN - GAS PIPING
PC3.1	PLUMBING - BUILDING C - NEW ROOF PLAN - CONDENSATE PIPING
PE2.0	PLUMBING - BUILDING E - FLOOR PLANS
PC4.1	PLUMBING DETAILS

ABBREVIATIONS

Ø	DIAMETER
&	AND
@	AT
ADA	AMERICAN WITH DISABILITIES ACT
AP	ACCESS PANEL
ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
BEL	BELOW
CFH	CUBIC FEET PER HOUR
CLG	CEILING
CONN	CONNECT OR CONNECTION
CONT	CONTINUED OR CONTINUATION
DN	DOWN
FLR	FLOOR
FU	FIXTURE UNIT(S) (CODE)
GPF	GALLONS PER FLUSH
GR	GRADE OR GROUND
HDR	HEADER
I.E.	INVERT ELEVATION
MAX	MAXIMUM
MIN	MINIMUM
OFCI	OWNER FURNISHED-CONTRACTOR INSTALLED
PSI	POUNDS PER SQUARE INCH (GAUGE)
RI&C	ROUGH IN & CONNECT
SHT	SHEET
THRU	THROUGH
TYP	TYPICAL
VTR	VENT THRU ROOF
W/	WITH
W.C.	WATER COLUMN
FPS	FEET PER SECOND
VEL	VELOCITY
SOV	SHUT OFF VALVE

APPLICABLE CODES

BUILDING OCCUPANCY CLASSIFICATION: -

THE CONSTRUCTION OF THIS PROJECT SHALL CONFORM TO THE REQUIREMENTS OF:

	CODE
2019	California Building Standards Administrative Code PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
2019	California Building Code PART 2, TITLE 24, CCR
2019	California Electrical Code PART 3, TITLE 24, CCR
2019	California Mechanical Code PART 4, TITLE 24, CCR
2019	California Plumbing Code PART 5, TITLE 24, CCR
2019	California Energy Code PART 6, TITLE 24, CCR
2019	California Fire Code PART 9, TITLE 24, CCR
2019	California Green Building Standard Code (CALGreen), Part II, Title 24 C.C.R.
2019	California Referenced Standards, Part 12, Title 24 C.C.R. Title 18 C.C.R., Public Safety, State Fire Marshal Regulations.

PIPE MATERIAL SCHEDULE

NOTE:
ANY (T) PIPING SYSTEM SHALL BE SAME AS (N) OR EQUAL.

SERVICE			MATERIAL: SEAMLESS COPPER TUBING, TYPE L, DRAWN TEMPER, ASTM B88	ABS DWV, SCH 40 SOLID WALL	COPPER TYPE M 95/5 SOLDER	BACK STEEL SCH 40	CAST IRON SOIL PIPE & FITTING	PE, POLYETHYLENE SDR 11	COPPER TYPE K 95/5 SOLDER	REMARKS
WATER	(CW) (HW) (HWR)	ABOVE	●							5 PSI/100 FT. @ 8FT/S MAX VELOCITY
		BELOW							●	
WASTE & VENT	(W) (V)	ABOVE					●			GRAVITY @ 2% SLOPE
		BELOW					●			
CONDENSATE DRAIN	(CD)	ABOVE			●					
		BELOW								

ELECTRICAL WATER HEATER SCHEDULE

ITEM	MANUFACTURER & MODEL NO.	STORAGE	RECOVERY CAPACITY @ 70°F	INLET TEMP °F	OUTLET TEMPER °F	ELECTRICAL kW	ELECTRICAL V	ELECTRICAL PH	ELECTRICAL FLA	OPER. WT. LBS.	REMARKS
EWH 1	LOCHINVAR - JTC020GS	20 GAL.	18	50	125	3.0	208	1	-	235 LBS.	SEE NOTES: 1, 2, 3, 4, 5, 6 AND 7 MUST HAVE ASHRAE STICKER OR OTHERWISE COMPLY WITH TITLE 24 REQUIREMENT FOR SERVICE WATER HEATERS. ASTM RATED. ALL ELECTRICAL CONTACT MADE WATER PROOF. SEE DETAIL 7 ON SHEET PC4.1.

NOTES:

1. WATER HEATER MUST HAVE ASHRAE STICKER OR OTHERWISE COMPLY WITH TITLE 24 REQUIREMENTS FOR SERVICE WATER HEATERS.
2. PROVIDE HOLDRITE WATER HEATER PAN MODEL QP-30.
3. PROVIDE PREFABRICATED WATER HEATER STAND MODEL 40-S-34-U.
4. PROVIDE HOLDRITE WATER HEATER SEISMIC STRAP MODEL QS-50-D.
5. PROVIDE ISOLATION VALVES FOR EACH CONNECTION TO WATER HEATER.
6. FULLY INSULATE ALL DOMESTIC HOT WATER PIPING.
7. PROVIDE 6"-6"CLEAR FROM BOTTOM OF WATER HEATER SUPPORT TO FLOOR.

FIXTURE SCHEDULE

ITEM	FIXTURE	ROUGH-IN CONNECTIONS: TRAP	WASTE	VENT	HOT WATER	COLD WATER	GAS	DESCRIPTION
WC 1	WATER CLOSET STAFF (ADA)	INT	4"	2"	--	1 1/2"	--	AMERICAN STANDARD #3351.101 AFWALL, WALL MOUNTED, ELONGATED BOWL, VITREOUS CHINA 1 1/2"TOP SPUD. SLOAN ROYAL 111-1.28GPF CHROME PLATED FLUSH VALVE, OLSONITE NO. 95CC-SS SEAT AND A/S BOLT CAPS. DISTRICT STANDARD OR JR SMITH 100-200 SERIES CARRIER. PROVIDE COMPACT CARRIER AT 2X8 STUD WALL.
WC 2	WATER CLOSET (YOUTH)	INT	4"	2"	--	1 1/2"	--	AMERICAN STANDARD #3351.101 AFWALL, WALL MOUNTED, ELONGATED BOWL, VITREOUS CHINA 1 1/2"TOP SPUD. SLOAN ROYAL 111-1.28GPF CHROME PLATED FLUSH VALVE, OLSONITE NO. 95CC-SS SEAT AND A/S BOLT CAPS. DISTRICT STANDARD OR JR SMITH 100-200 SERIES CARRIER. SET ARCH DRAWINGS FOR SEAT HEIGHT
WC 3	WATER CLOSET (YOUTH)	INT	4"	2"	--	1 1/2"	--	AMERICAN STANDARD #2282.001 BABY DEVORO "FLOWISE", FLOOR MOUNTED, VITREOUS CHINA , 10 1/4" HIGH, 1 1/2"TOP SPUD. SLOAN ROYAL 111-1.28GPF CHROME PLATED FLUSH VALVE, CHURCH 1580C OPEN FRONT SEAT, LESS COVER, AND BOLT CAPS.
L 1	LAVATORY	1-1/4"	2"	2"	--	1/2"	--	AMERICAN STANDARD "LUCERNE" MODEL # 0355.012 WALL HUNG LAVATORY, VITREOUS CHINA. CHICAGO #807 METERING FAUCET, PUSH BUTTON LEVER HANDLE , 4" FIXED CENTERS, 0.5 GPM. CHICAGO 1006-ABCP STOPS AND SUPPLIES, P-TRAP.TRUEBRO LAVGUARD-2, ADA STOPS AND SUPPLY AND P-TRAP INSULATION.
L 2	LAVATORY (ADA)	1-1/4"	2"	2"	--	1/2"	--	AMERICAN STANDARD "LUCERNE" MODEL # 0355.012 WALL HUNG LAVATORY, VITREOUS CHINA. CHICAGO #807 METERING FAUCET, PUSH BUTTON LEVER HANDLE , 4" FIXED CENTERS, 0.5 GPM. CHICAGO 1006-ABCP STOPS AND SUPPLIES, P-TRAP.TRUEBRO LAVGUARD-2, ADA STOPS AND SUPPLY AND P-TRAP INSULATION.
SS 1	SERVICE SINK	3"	3"	2"	3/4"	3/4"	--	JUST #A-18665-TVB, STAINLESS STEEL WALL MOUNTED SERVICE SINK. JUST #JVB-1200 FAUCET WITH VACUUM BREAKER, HOSE END AND PAIL HOOK
S 1	SINK (ADA)	1-1/4"	2"	2"	1/2"	1/2"	--	ELKAY MODEL # LRAD221955, 25" FRONT TO BACK, 19" WIDE X 5.5" TOP MOUNTED ADA ACCESSIBLE, 18GA 304 STAINLESS STEEL SINK, VANDAL PROOF DRAIN, ANTI MICROBIAL FLEXIBLE MOUTH GUARD. CHICAGO #1017-ABCP. LOOSE KEY STOP RIGID SUPPLY. CHICAGO FAUCET #350-317-XK-ABCP, RIGID GOOSENECK SWING SPOUT, 4" SINGLE BLADE HANDLE, 0.35GPM AERATOR, VANDAL RESISTANT COVER PLATE. CHICAGO #748-665FHABCP, 5LB MAX OPERATING PRESSURE, 10SECOND MIN RUN TIME, BUBBLER TO BE 6" FROM EDGE OF COUNTER TOP. ROTATE BUBBLER APPROX20DEG SO SPOUT FLOWS SLIGHTLY TOWARDS CENTER OF SINK
LS 1	LOUNGE SINK (ADA)	1-1/4"	2"	2"	1/2"	1/2"	--	ELKAY MODEL # LRAD252165, 21 1/4" FRONT TO BACK, 25" WIDE X 6.5" DEPTH OVERALL. 18 GAUGE STAINLESS STEEL, SIDE LEDGES WITH SELF-RIM. PROVIDE REAR DRAIN LOCATION, #LK1001CR KITCHEN FAUCET WITH LEVER HANDLE AND HOSE PRAY. PROVIDE CHICAGO STOPS, SUPPLIES AND LA PATTERN P-TRAP
UR 1	URINAL (ADA)	INT	2"	1-1/2"	--	3/4"	--	AMERICAN STANDARD (A/S) #6550.001 "ALLBROOK URINAL", WALL HUNG, SIPHON JET. COMPLETE WITH SLOAN ROYAL #186-0.5 GPF FLUSH VALVE AND ZURN #Z-1222 WALL HANGER. MOUNT AT ADA ACCESSIBLE HEIGHT.
DF 1	DRINKING FOUNTAIN	1-1/2"	2"	1-1/2"	--	3/4"	--	ELKAY EZ-H20 #VRCTLRDDWS BOTTLE FILLING STATION & BI-LEVEL COOLER MODEL LZSTL8WSLP, WALL MOUNTED, 14-GAUGE STAINLESS STEEL ADA APPROVED, COMPLETE WITH VANDAL PROOF BOTTOM PLATES NO. 6800 SUPPORT CARRIER AND NO. 6717 MOUNTING PLATE. CHICAGO NO. 45LKABCP ANGLE STOP WITH 1/2" FEMALE INLET OUTLET, MOUNT AT ADA. 120V. 1PH.
TP 1	TRAP PRIMER	--	--	--	--	1/2"	--	PRECISION PLUMBING PRODUCTS P-1 TRAP PRIMER W/ SHUT-OFF VALVE
WHA 1	WATER HAMMER ARRESTOR	--	--	--	--	--	--	ZURN NO. Z-1700 SERIES "SHOKTROL" WATER HAMMER ARRESTOR COMPLETE BEHIND ACCESS PANEL. INSTALL PER MANUFACTURER'S RECOMMENDATION.

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PLEASANTON UNIFIED SCHOOL DISTRICT

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
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DSA SUB	10/19/2021

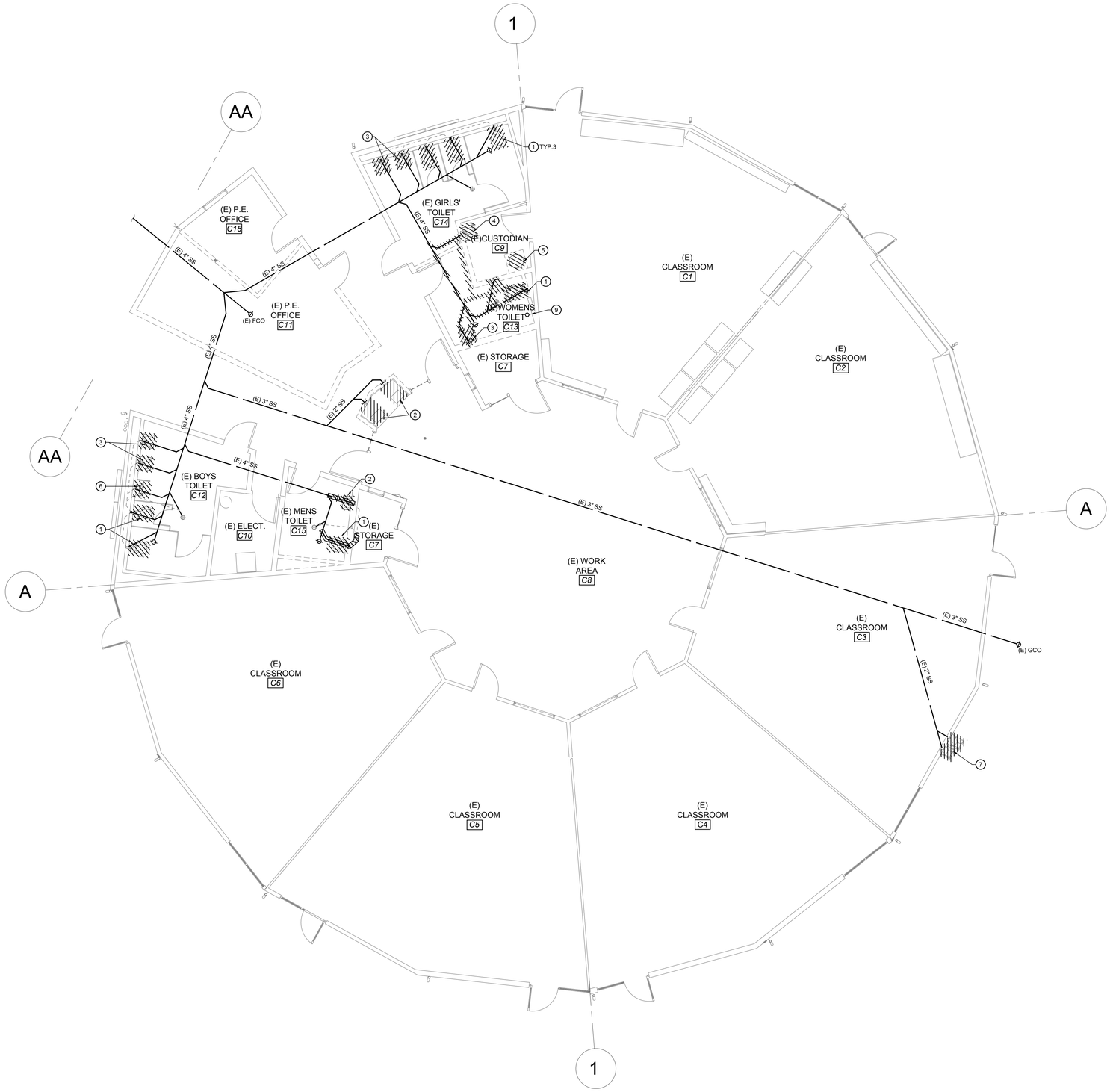
SHEET

PLUMBING SCHEDULES, GENERAL NOTES AND LEGEND

DATE 10/19/2021

JOB # 2020029.02

SHEET # PC0.1



DEMOLITION GENERAL NOTES

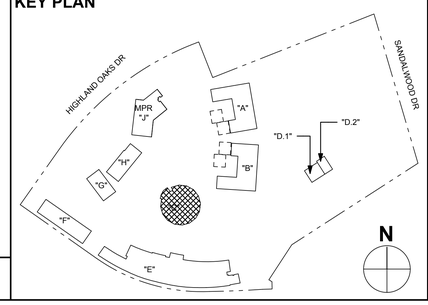
1. FOR CLARITY, NOT ALL EXISTING WORK IS SHOWN ON PLAN. PLUMBING WORK SHOWN ON PLAN IS DIAGRAMMATIC, CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS.
2. DEMOLISH/ REMOVE & PATCH EXISTING MATERIALS, ITEMS, OR FINISHES AS NECESSARY TO PERFORM NEW WORK WHERE INDICATED. PATCH EXISTING WALL/FLOOR TO MATCH ADJACENT MATERIALS/FINISHES.
3. COORDINATE EXTENT OF DEMOLITION/ REMOVAL WITH ARCHITECTURAL DRAWINGS.
4. CONDENSATE DRAIN PIPING SHALL SLOPE AT 1% UNLESS OTHERWISE NOTED ON PLANS.

DEMOLITION KEYNOTES

1. EXISTING WATER CLOSET, FLUSH VALVE, CARRIER AND RELATED PIPING TO BE REMOVED AND REPLACED WITH NEW. CAP SEWER BELOW FLOOR, VENT AND WATER PIPING ABOVE CEILING.
2. EXISTING LAVATORY, FAUCET, CARRIER AND RELATED FITTINGS TO BE REMOVED AND REPLACED. CAP SEWER, VENT AND WATER PIPING IN WALL.
3. EXISTING LAVATORY, FAUCET, CARRIER AND RELATED FITTINGS TO BE REMOVED. CAP SEWER BELOW FLOOR, VENT AND WATER PIPING ABOVE CEILING.
4. EXISTING SERVICE SINK, FAUCET, CARRIER AND RELATED FITTINGS TO BE REMOVED, RELOCATED, AND REPLACED WITH NEW. CAP SEWER BELOW FLOOR, VENT AND WATER PIPING ABOVE CEILING.
5. EXISTING WATER HEATER TO BE REMOVED. CAP WATER LINES ABOVE CEILING.
6. EXISTING URINAL, FLUSH VALVE, CARRIER, AND RELATED PIPING TO BE REMOVED AND REPLACED WITH NEW. CAP SEWER BELOW FLOOR, VENT AND WATER PIPING ABOVE CEILING.
7. EXISTING DRINKING FOUNTAIN TO BE REMOVED AND REPLACED WITH NEW.
8. EXISTING CHRISTY BOX AND SHUT-OFF VALVE TO BE REMOVED. CAP WATER PIPING BELOW GROUND.
9. EXISTING 1 1/4"CD ABOVE CEILING FROM ROOF TO BE REMAIN. PREP FOR NEW CONNECTION. SEE REMODEL FLOOR PLAN SHEET PC2.0

N

KEY PLAN



PLUMBING - BUILDING C - DEMOLITION FLOOR PLAN - WASTE AND VENT | 3/16" = 1'-0" | 1

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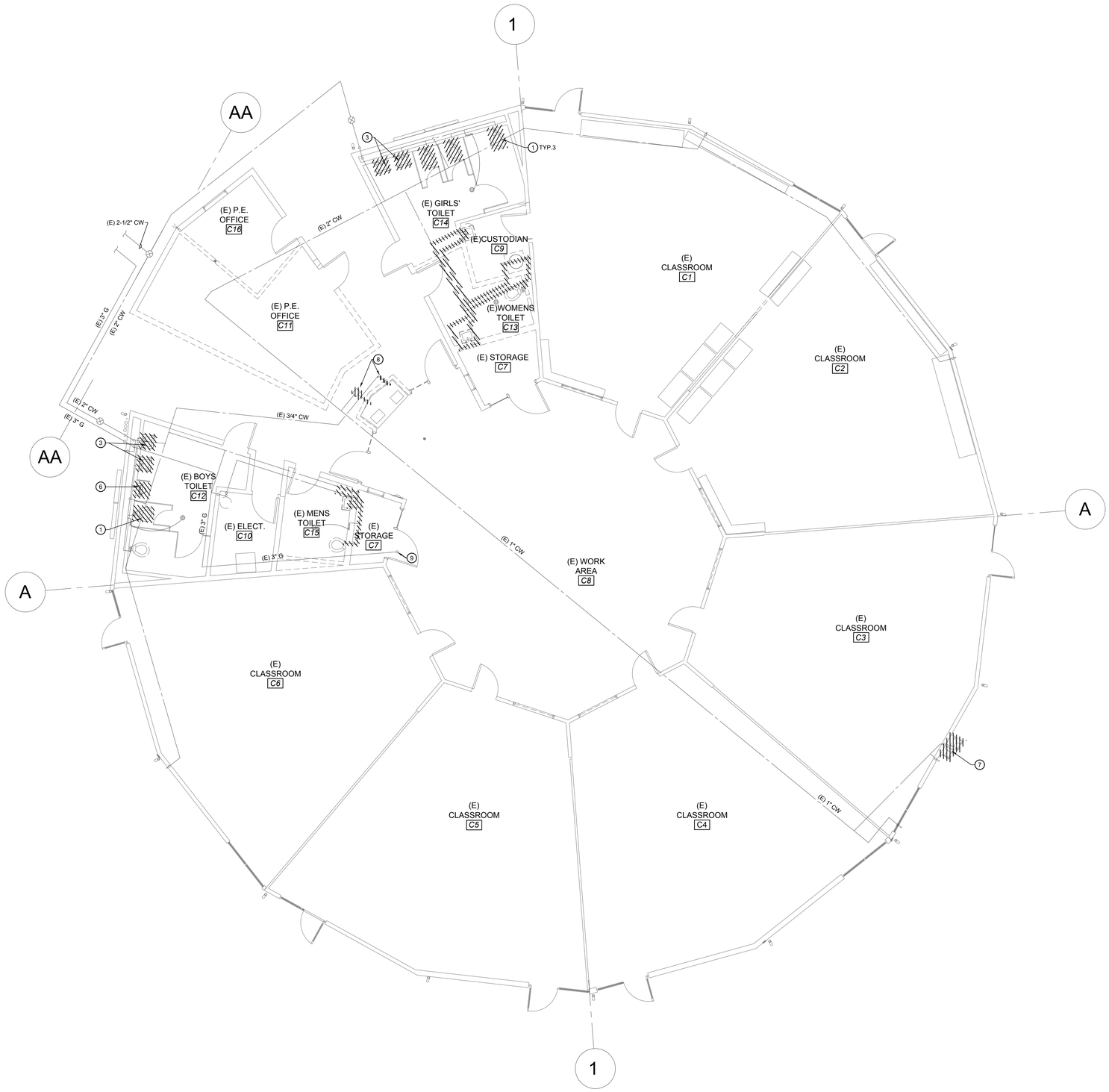
SHEET

PLUMBING BUILDING C - DEMOLITION FLOOR PLAN - WASTE AND VENT

DATE 10/19/2021

JOB # 2020029.02

SHEET # PDC2.0



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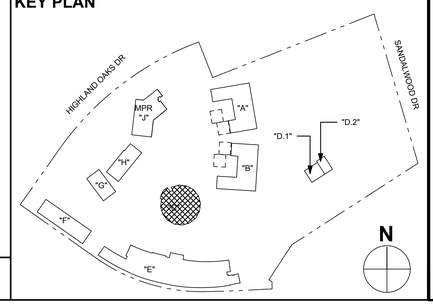
2. EXISTING LAVATORY, FAUCET, CARRIER AND RELATED FITTINGS TO BE REMOVED AND REPLACED. CAP SEWER, VENT AND WATER PIPING IN WALL.
3. EXISTING LAVATORY, FAUCET, CARRIER AND RELATED FITTINGS TO BE REMOVED, CAP SEWER BELOW FLOOR, VENT AND WATER PIPING ABOVE CEILING.
4. EXISTING SERVICE SINK, FAUCET, CARRIER AND RELATED FITTINGS TO BE REMOVED, RELOCATED, AND REPLACED WITH NEW. CAP SEWER BELOW FLOOR, VENT AND WATER PIPING ABOVE CEILING.
5. EXISTING WATER HEATER TO BE REMOVED AND RELOCATED.
6. EXISTING URINAL, FLUSH VALVE, CARRIER, AND RELATED PIPING TO BE REMOVED AND REPLACED WITH NEW. CAP SEWER BELOW FLOOR, VENT AND WATER PIPING ABOVE CEILING.
7. EXISTING DRINKING FOUNTAIN TO BE REMOVED AND REPLACED WITH NEW.
8. EXISTING CHRISTY BOX AND SHUT-OFF VALVE TO BE REMOVED. CAP WATER PIPING BELOW GROUND FROM SINKS REMOVED.
9. EXISTING 3" GAS PIPING UP TO ROOF TOP. REFER TO PLUMBING PLAN FOR ROUTING.

N

KEY PLAN



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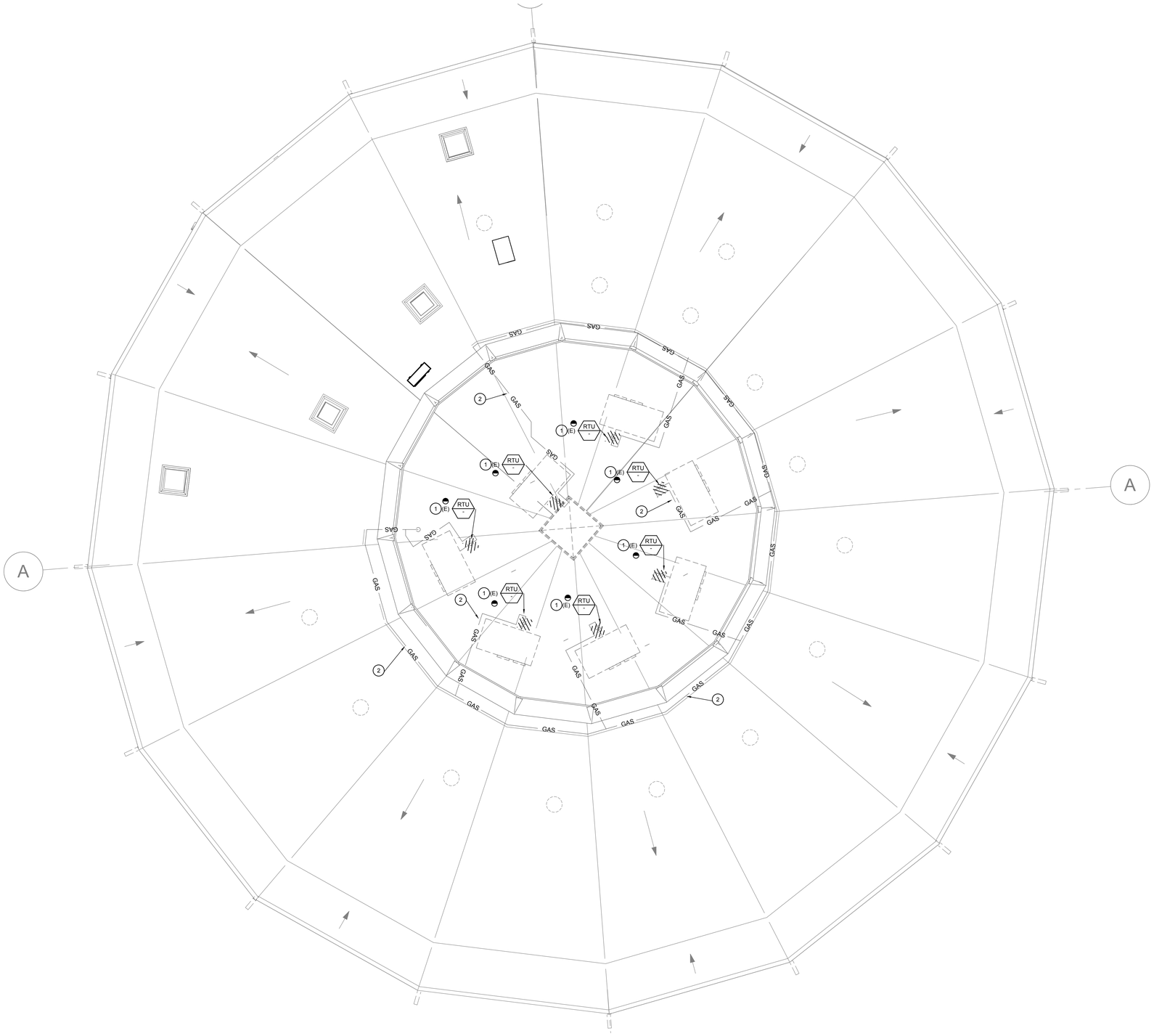
PLUMBING BUILDING C - DEMOLITION FLOOR PLAN - WATER AND GAS

DATE 10/19/2021

JOB # 2020029.02

SHEET # PCD2.1

PLUMBING - BUILDING C - DEMOLITION FLOOR PLAN - WATER AND GAS | 3/16" = 1'-0" | 1



DEMOLITION GENERAL NOTES

1. CONTRACTOR SHALL VERIFY EXACT LOCATIONS AND SIZES OF ALL EXISTING GAS PIPING IN FIELD PRIOR TO INSTALLATION.

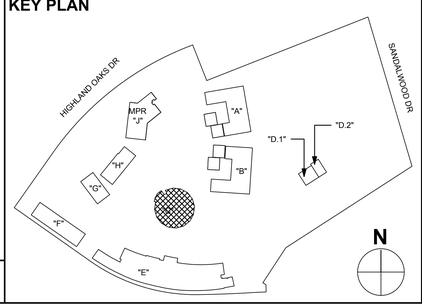
DEMOLITION KEYNOTES

(1) DISCONNECT EXISTING GAS PIPING AND RELATED SHUT-OFF VALVES AT EACH AC UNIT TO BE REPLACED. PREP GAS PIPING FOR NEW CONNECTION AT NEW AC UNIT. SEE MECH DWGS FOR NEW LOCATIONS OF AC UNITS.

(2) EXISTING GAS PIPING. VERIFY EXACT LOCATION AND SIZES IN FIELD.

N

KEY PLAN



PDC3.0 | PLUMBING - BUILDING C - DEMOLITION FLOOR PLAN- GAS | 3/16" = 1'-0" | 1

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PLUMBING BUILDING C - DEMOLITION ROOF PLAN - GAS PIPING

DATE 10/19/2021
JOB # 2020029.02
SHEET # PDC3.0

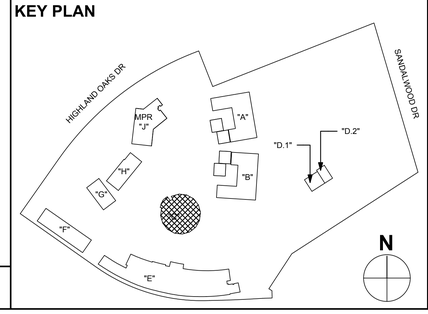
DEMOLITION GENERAL NOTES

1. CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EXISTING PIPING.

DEMOLITION KEYNOTES

1. DISCONNECT EXISTING CONDENSATE DRAIN PIPING WITH VENTED P-TRAP AT EACH AC UNIT TO BE REPLACED. PREP CONDENSATE DRAIN CONNECTION PIPING FOR NEW AC UNIT. SEE MECH DWGS FOR NEW LOCATIONS OF AC UNITS.
2. EXISTING CONDENSATE DRAIN PIPING AT 1% SLOPE MIN TO REMAIN. VERIFY EXACT LOCATION AND SIZES IN FIELD.

KEY PLAN



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PLUMBING - BUILDING C - DEMOLITION ROOF PLAN - CONDENSATE PIPING | 3/16" = 1'-0" | 1

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PLUMBING BUILDING C - DEMOLITION ROOF PLAN - CONDENSATE PIPING

DATE 10/19/2021
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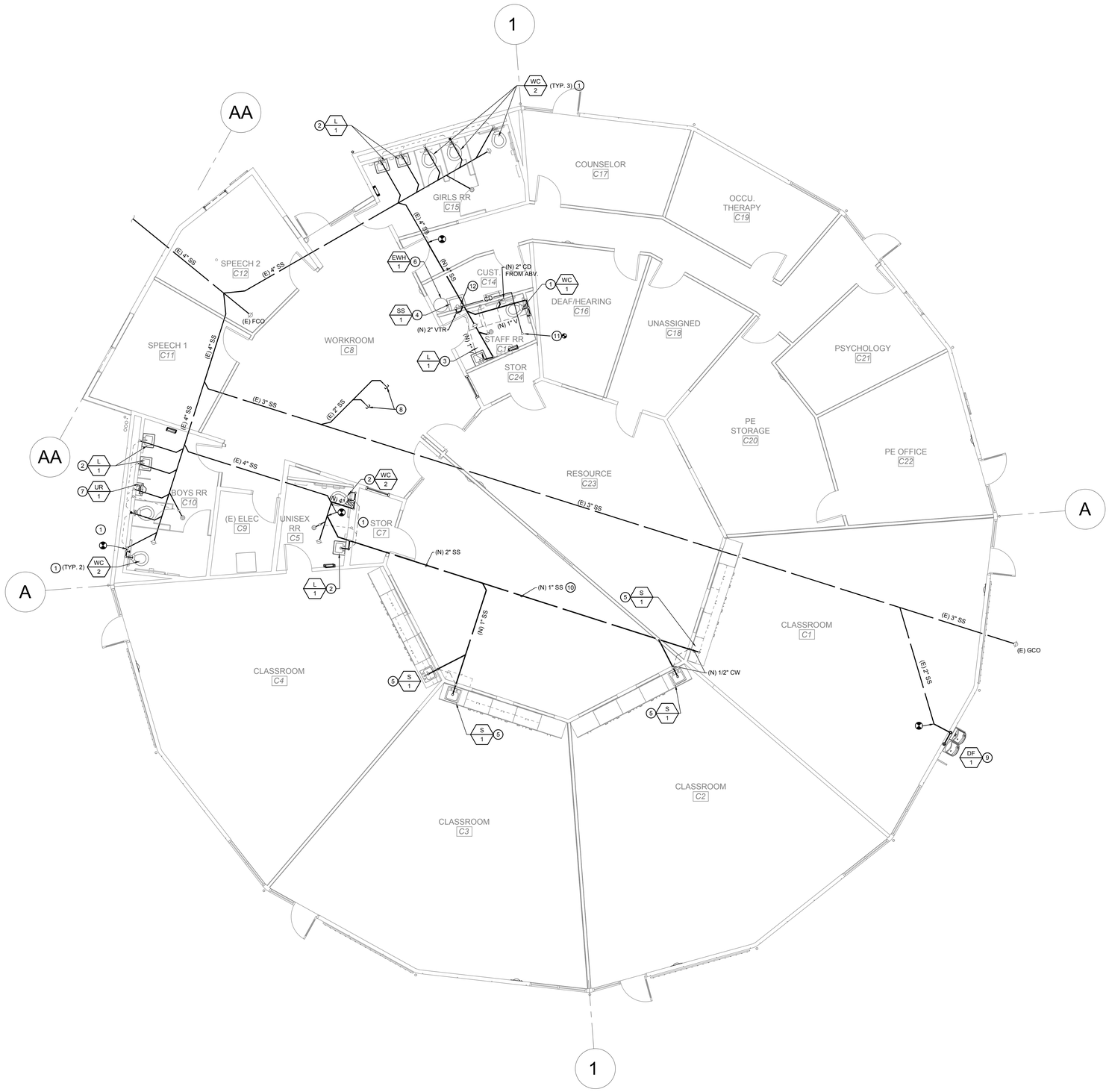


NEW CONSTRUCTION GENERAL NOTES

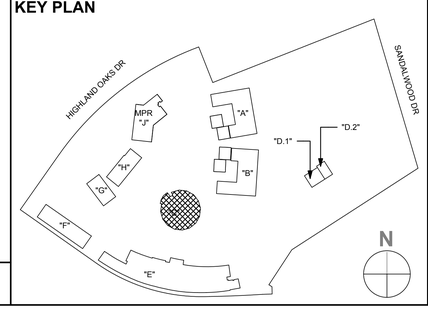
1. ALL WASTE PIPING TO SLOPE AT 2% MIN.
2. ALL CONDENSATE DRAIN PIPING TO SLOPE AT 1% MIN. PROVIDE INSULATION FOR CONDENSATE DRAIN PIPING.

CONSTRUCTION KEYNOTES

1. FURNISH AND INSTALL NEW WATER CLOSET, CARRIER AND FLUSH VALVE. MODIFY EXISTING SEWER BELOW FLOOR, VENT AND WATER IN WALL AS NEEDED TO ACCOMMODATE NEW FIXTURE. ROUGH-IN AND CONNECT AS REQUIRED.
2. FURNISH AND INSTALL NEW LAVATORY, FAUCET AND FITTINGS. MODIFY EXISTING SEWER, VENT AND WATER IN WALL AS NEEDED TO ACCOMMODATE NEW FIXTURE. ROUGH-IN AND CONNECT AS REQUIRED.
3. FURNISH AND INSTALL NEW LAVATORY, FAUCET AND FITTINGS. ROUGH-IN AND CONNECT AS REQUIRED.
4. FURNISH AND INSTALL NEW SERVICE SINK, FAUCET AND FITTINGS. ROUGH-IN AND CONNECT AS REQUIRED.
5. FURNISH AND INSTALL NEW SINK, FAUCET AND FITTINGS. ROUGH-IN AND CONNECT AS REQUIRED.
6. FURNISH AND INSTALL NEW WATER HEATER ON WALL. ROUGH-IN AND CONNECT AS REQUIRED.
7. FURNISH AND INSTALL NEW URINAL, CARRIER, AND FLUSH VALVE. MODIFY EXISTING SEWER BELOW FLOOR, VENT AND WATER IN WALL AS NEEDED TO ACCOMMODATE NEW FIXTURE. ROUGH-IN AND CONNECT AS REQUIRED.
8. EXISTING 2"S CAPPED BELOW GRADE FROM SINKS REMOVED.
9. FURNISH AND INSTALL NEW DRINKING FOUNTAIN. ROUGH-IN AND CONNECT TO EXISTING COLD WATER AS REQUIRED.
10. CONTRACTOR TO VERIFY THAT SANITARY SEWER PIPE HAS 2% SLOPE TO POINT OF CONNECTION.
11. CONNECT NEW 1 1/4"CD TO (E) 1 1/4"CD ABOVE CEILING.
12. NEW 1 1/4"CD DN IN WALL AND TERMINATE OVER JANITORS SINK.

N

KEY PLAN



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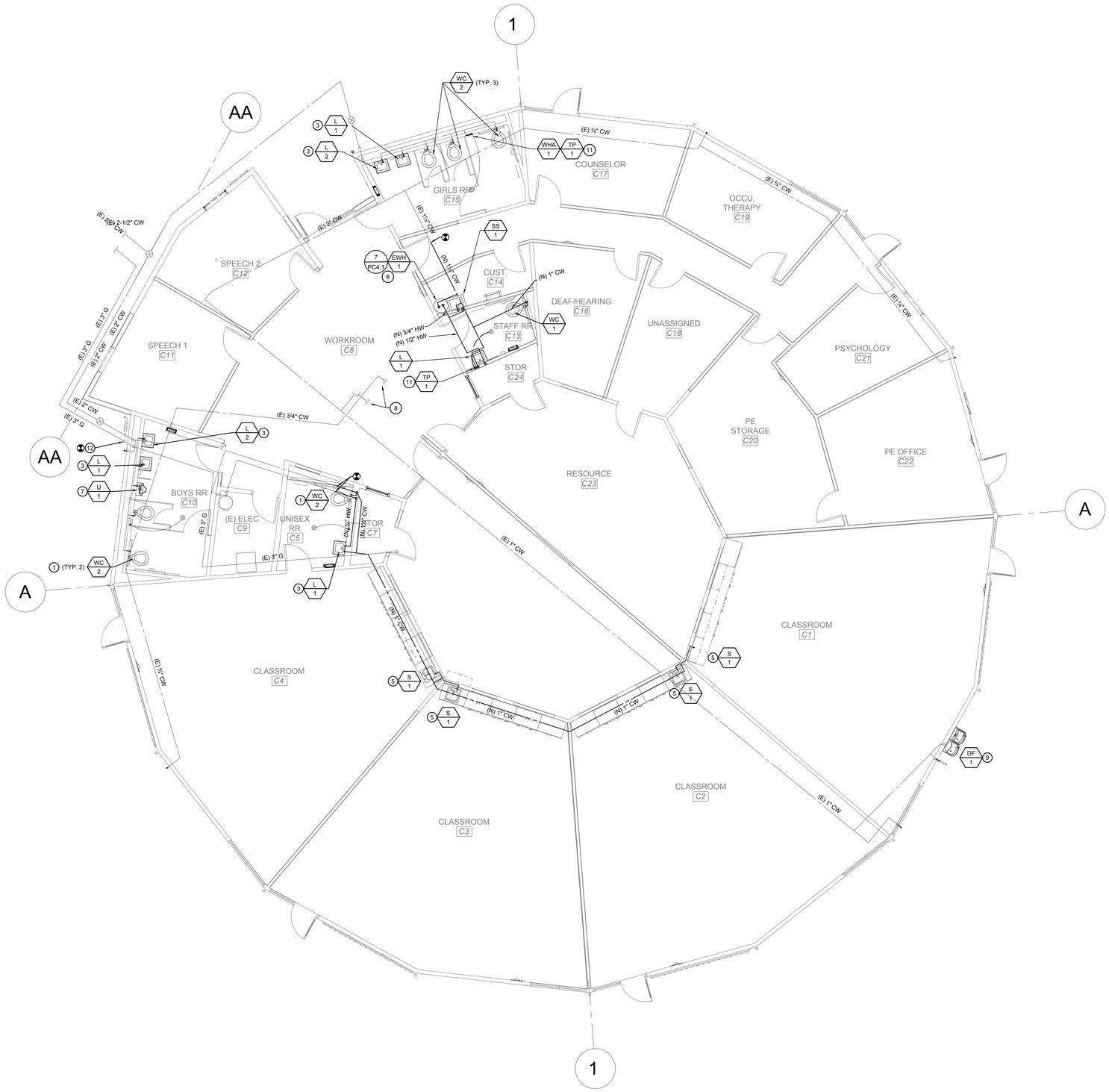
PLUMBING - BUILDING C - NEW FLOOR PLAN - WASTE AND VENT

DATE 10/19/2021
JOB # 2020029.02
SHEET # PC2.0

PLUMBING - BUILDING C - NEW FLOOR PLAN - WASTE & VENT | 3/16" = 1'-0" | 1



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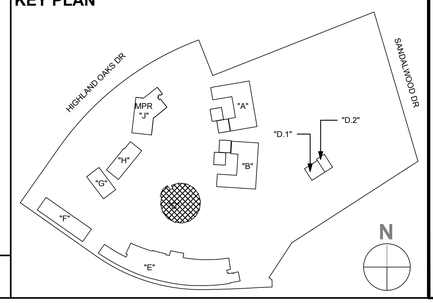
1. FURNISH AND INSTALL NEW WATER CLOSET, CARRIER AND FLUSH VALVE. MODIFY EXISTING SEWER BELOW FLOOR, VENT AND WATER IN WALL AS NEEDED TO ACCOMMODATE NEW FIXTURE. ROUGH-IN AND CONNECT AS REQUIRED.
2. FURNISH AND INSTALL NEW LAVATORY, FAUCET AND FITTINGS. MODIFY EXISTING SEWER, VENT AND WATER IN WALL AS NEEDED TO ACCOMMODATE NEW FIXTURE. ROUGH-IN AND CONNECT AS REQUIRED.
3. FURNISH AND INSTALL NEW LAVATORY, FAUCET AND FITTINGS. ROUGH-IN AND CONNECT AS REQUIRED.
4. FURNISH AND INSTALL NEW SERVICE SINK, FAUCET AND FITTINGS. ROUGH-IN AND CONNECT AS REQUIRED.
5. FURNISH AND INSTALL NEW SINK, FAUCET AND FITTINGS. ROUGH-IN AND CONNECT AS REQUIRED.
6. FURNISH AND INSTALL NEW WATER HEATER ON WALL. ROUGH-IN AND CONNECT AS REQUIRED.
7. FURNISH AND INSTALL NEW URINAL, CARRIER, AND FLUSH VALVE. MODIFY EXISTING SEWER BELOW FLOOR, VENT AND WATER IN WALL AS NEEDED TO ACCOMMODATE NEW FIXTURE. ROUGH-IN AND CONNECT AS REQUIRED.
8. EXISTING 3/4"CW PIPING CAPPED OFF BELOW GRADE (TYP)
9. FURNISH AND INSTALL NEW DRINKING FOUNTAIN. ROUGH-IN AND CONNECT TO EXISTING COLD WATER AS REQUIRED.
10. CONTRACTOR TO VERIFY THAT SANITARY SEWER PIPE HAS 2% SLOPE TO POINT OF CONNECTION.
11. TRAP PRIMER IN WALL WITH SOV. PROVIDE ACCESS PANEL ON WALL
12. PROVIDE NEW 3" EMERGENCY SHUT-OFF VALVE ON EXISTING 3" GAS SERVICE TO BUILDING. INSTALL PER CPC SECTION 1210.9.3 PROVIDE YARD BOX ON GRADE IF PIPING CONNECTION IS BELOW GRADE.

KEY PLAN



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PROJECT

LYDIKSEN ELEMENTARY SCHOOL MODERNIZATION

PLEASANTON UNIFIED SCHOOL DISTRICT

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER BAKER No. M29353 Exp. 6/30/23 MECHANICAL STATE OF CALIFORNIA

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SHEET

PLUMBING - BUILDING C - NEW FLOOR PLAN - WATER AND GAS

DATE 10/19/2021

JOB # 2020029.02

SHEET # PC2.1

PLUMBING - BUILDING C - NEW FLOOR PLAN - WATER & GAS | 3/16" = 1'-0" | 1

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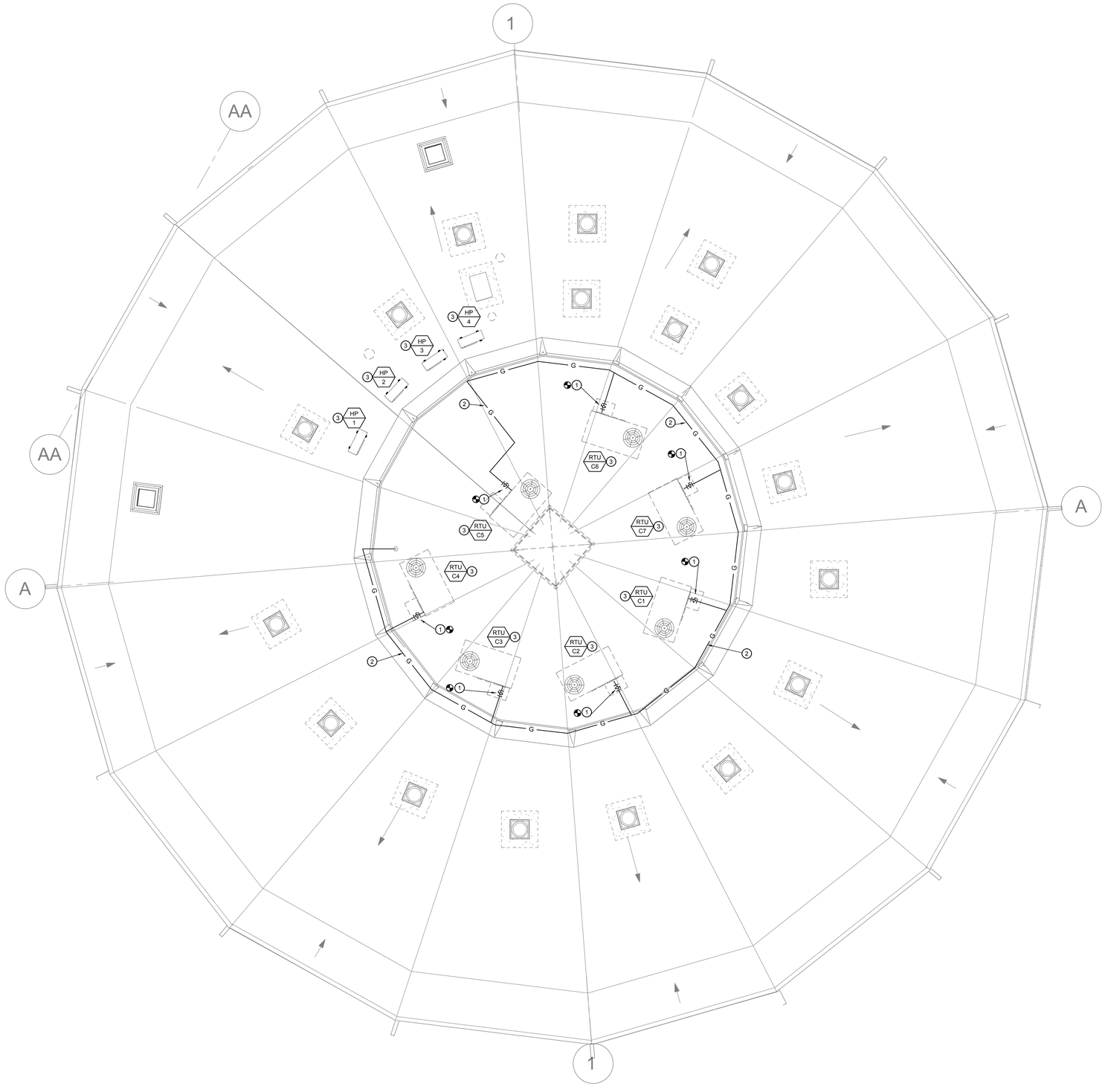


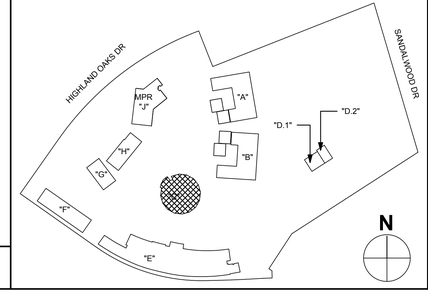
NEW CONSTRUCTION GENERAL NOTES

1. FOR CLARITY, NOT ALL EXISTING WORK IS SHOWN ON PLAN. PLUMBING WORK SHOWN ON PLAN IS DIAGRAMMATIC, CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS.
2. DEMOLISH/ REMOVE & PATCH EXISTING MATERIALS, ITEMS, OR FINISHES AS NECESSARY TO PERFORM NEW WORK WHERE INDICATED. PATCH EXISTING WALL/FLOOR TO MATCH ADJACENT MATERIALS/FINISHES.
3. COORDINATE EXTENT OF DEMOLITION/ REMOVAL WITH ARCHITECTURAL DRAWINGS.
4. CONDENSATE DRAIN PIPING SHALL SLOPE AT 1% UNLESS OTHERWISE NOTED ON PLANS.

CONSTRUCTION KEYNOTES

1. CONNECT TO GAS PIPING TO EXISTING GAS PIPING ON ROOF. PROVIDE NEW GAS COCK, UNION AND SEDIMENT TAP. SEDIMENT TRAP SHALL BE INSTALLED DOWNSTREAM OF AC UNIT GAS COCK. CONTRACTOR TO MODIFY EXISTING GAS PIPING AS NEEDED AND MATCH PIPE SIZE. SEE DETAIL 6/PC4.1
2. EXISTING GAS PIPING. VERIFY LOCATIONS AND SIZES IN FIELD PRIOR TO RECONNECTION TO NEW AC UNITS.
3. NEW AC UNIT ON ROOF. SEE MECH DWGS

KEY PLAN



PLUMBING - BUILDING C - NEW ROOF PLAN - GAS PIPING | 3/16" = 1'-0" | 1

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SHEET

PLUMBING - BUILDING C - NEW ROOF PLAN - GAS PIPING

DATE 10/19/2021
JOB # 2020029.02
SHEET # PC3.0

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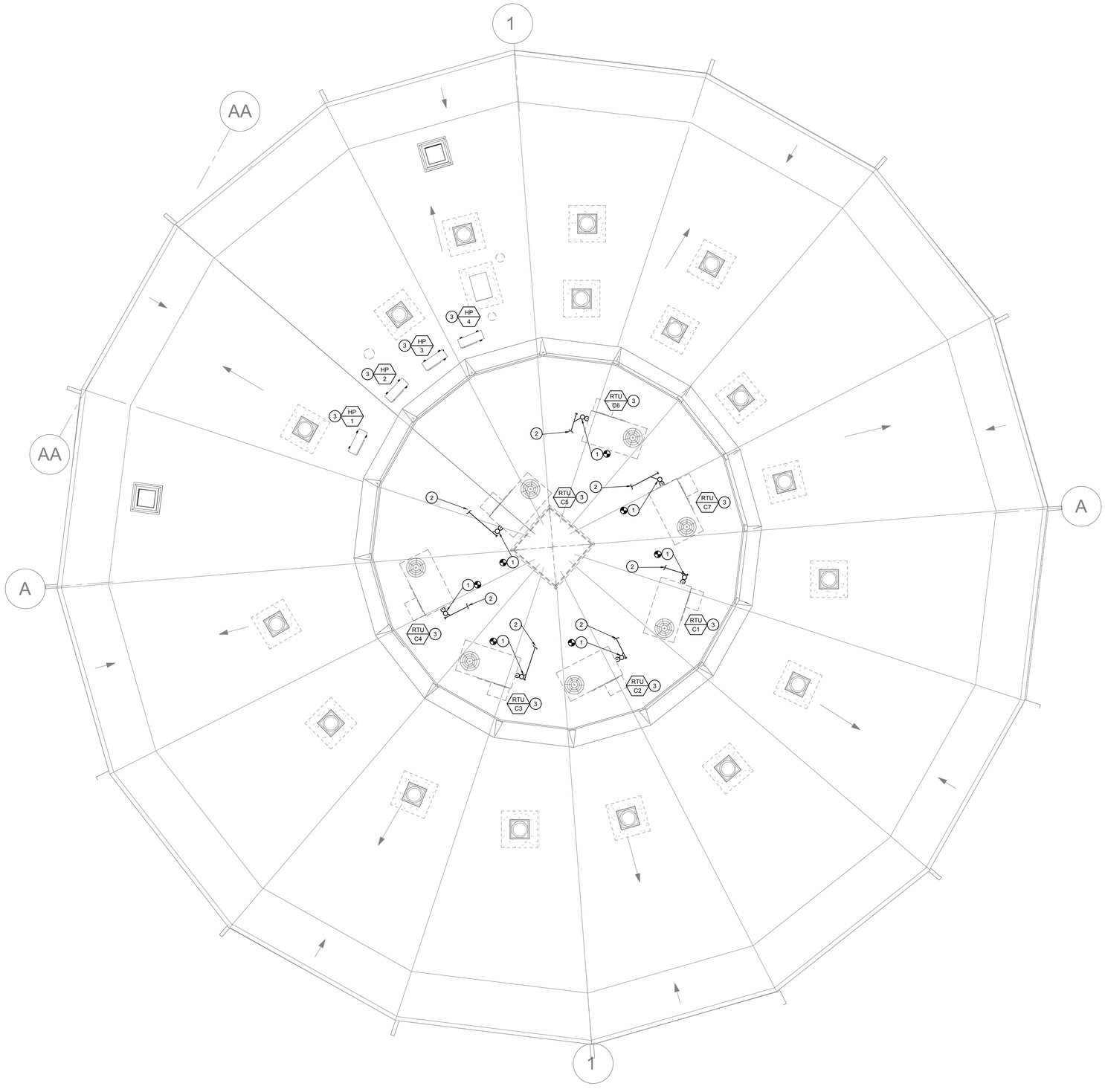

NEW CONSTRUCTION GENERAL NOTES

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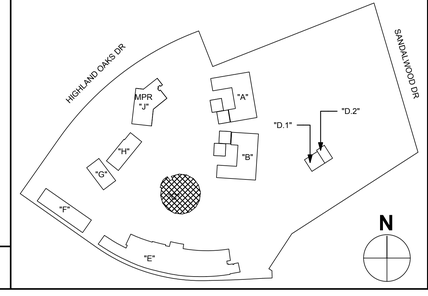
3. COORDINATE EXTENT OF DEMOLITION/ REMOVAL WITH ARCHITECTURAL DRAWINGS.
4. CONDENSATE DRAIN PIPING SHALL SLOPE AT 1% UNLESS OTHERWISE NOTED ON PLANS.

CONSTRUCTION KEYNOTES

1. CONNECT NEW 3/4"CD TO NEW AC UNIT ON ROOF WITH VENTED P-TRAP. CONNECT NEW 3/4"CD TO EXISTING 3/4"CD ON ROOF. SEE DETAIL SHEET 6/PC4.1
2. EXISTING CONDENSATE DRAIN PIPING AT 1% SLOPE MIN ON ROOF. VERIFY EXACT LOCATION AND SIZES IN FIELD. SEE DEMO PLAN SHEET PDC3.1 FOR CONTINUATION
3. NEW AC UNIT ON ROOF. SEE MECH DWGS

N

KEY PLAN



PLUMBING - BUILDING C - NEW ROOF PLAN - CONDENSATE PIPING | 3/16" = 1'-0" | 1

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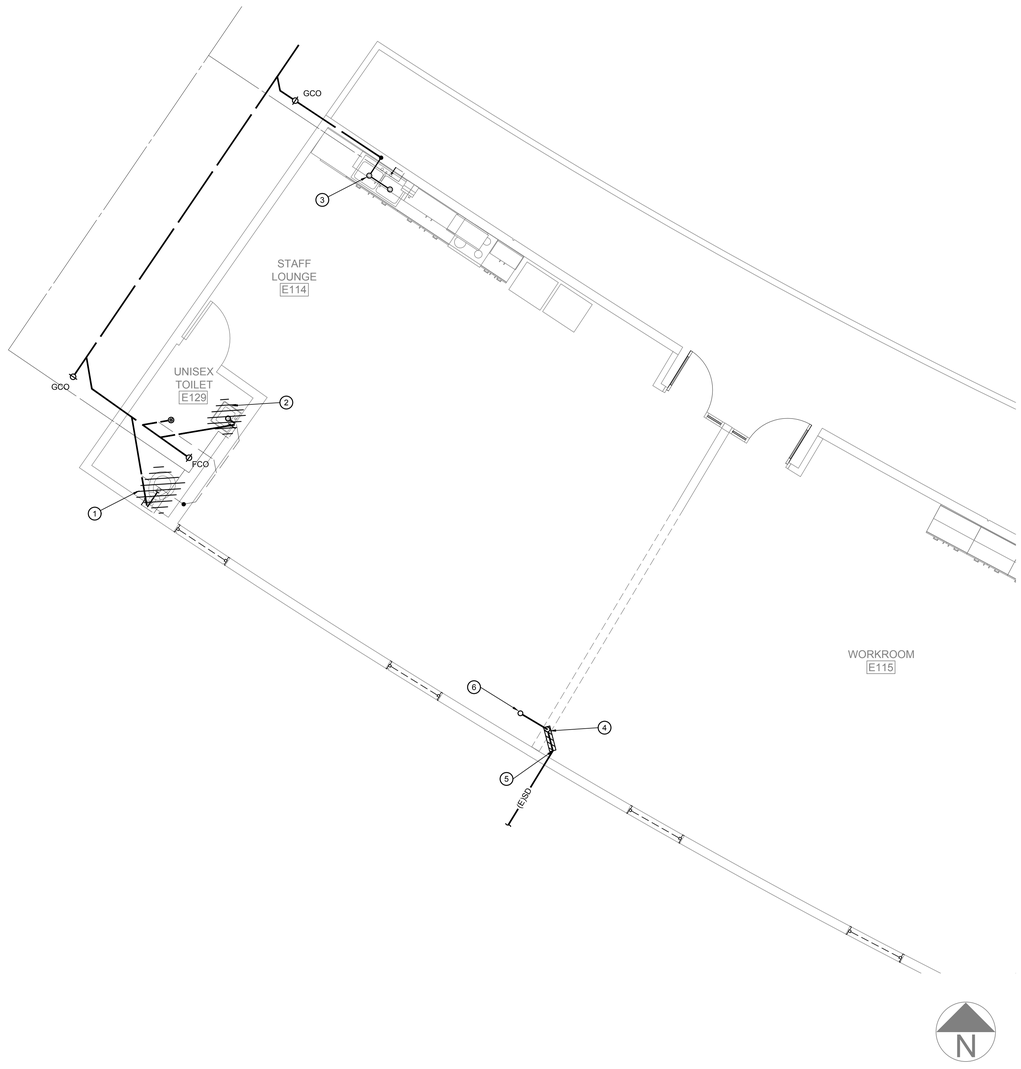
PLUMBING - BUILDING C - NEW ROOF PLAN - CONDENSATE PIPING

DATE 10/19/2021
JOB # 2020029.02
SHEET # PC3.1



PLUMBING - BUILDING E - DEMOLITION FLOOR PLAN - WASTE AND WATER

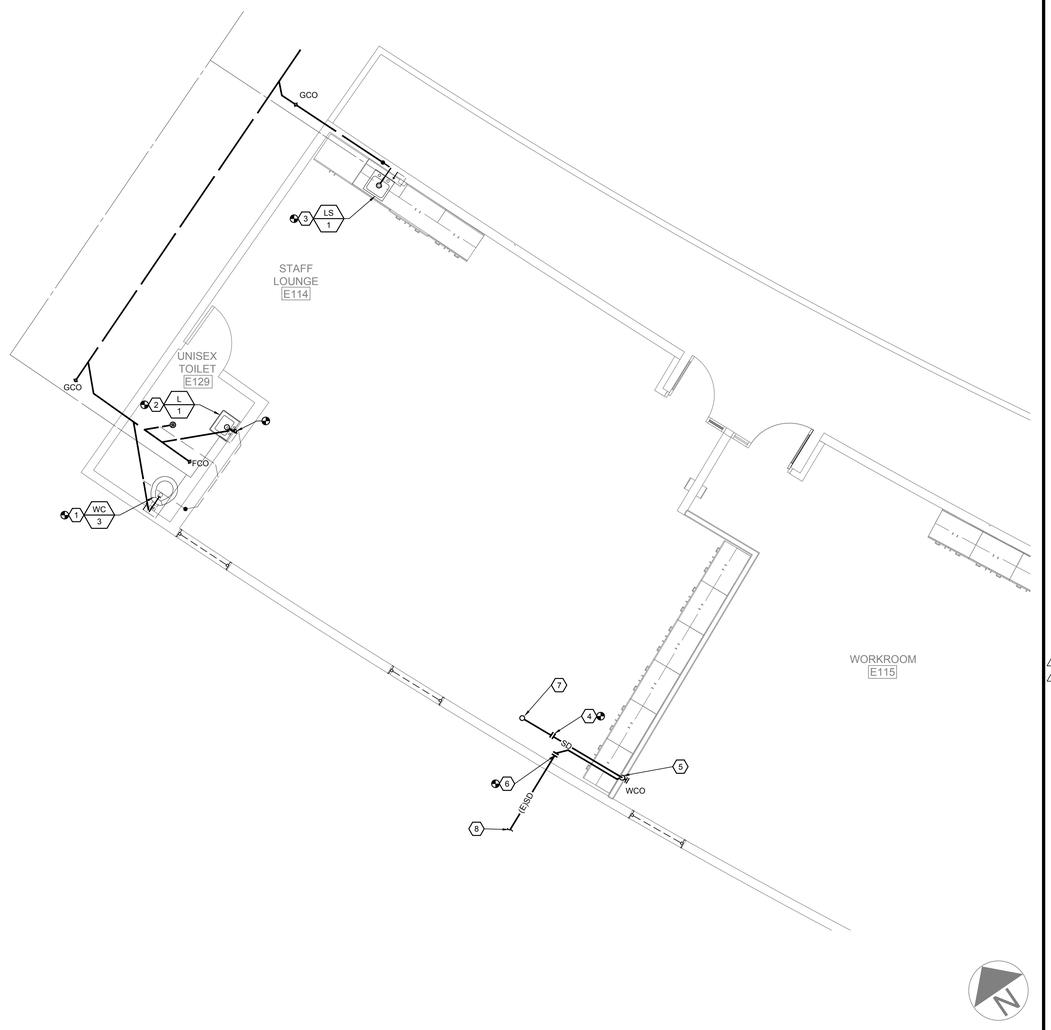
1/4" = 1'-0" | 2

DEMOLITION GENERAL NOTES

1. CONTRACTOR SHALL MODIFY DUCT CONNECTIONS AS NECESSARY TO MATCH NEW REGISTER SIZE.
2. CONTRACTOR SHALL REUSE EXISTING OPENING(S) IN ROOF FOR FUTURE DUCTWORK AND ETC, WHEREVER POSSIBLE COORDINATE WITH OTHER TRADES AS NECESSARY.
3. ALL EXISTING DUCTWORK, EXTERIOR LOUVERS, AND REGISTER(S) TO REMAIN SHALL BE CLEANED PER SPECIFICATIONS BY APPROVED DUCT CLEANING CONTRACTOR.
4. CONTRACTOR SHALL REMOVE EXISTING HYDRONIC HEATING UNIT, RELATED EXPOSED PIPING, AND COMPONENTS. CONCEALED PIPING, AND COMPONENTS SHALL BE ABANDONED IN PLACE.
5. EXISTING HYDRONIC PIPING TO BE REMOVED. CONTRACTOR SHALL REPAIR/INFILL ALL PENETRATIONS THRU' WALLS, FLOORS, AND CEILINGS. PENETRATIONS SHALL BE PATCHED OR CAULKED TO MATCH SURROUNDING MATERIALS AND AS REQUIRED TO MAINTAIN FIRE RATING OF WALL, FLOOR, OR CEILING.
6. ALL EXISTING DOMESTIC HOT WATER AND RETURN AND COLD WATER TO REMAIN.
7. CONTRACTOR SHALL VISIT THE JOB SITE AND VERIFY THE SCOPE OF DEMOLITION WORK. DEMOLITION IS INDICATED AS A CONVENIENCE FOR THE CONTRACTOR AND MAY NOT INDICATE THE FULL SCOPE OF DEMOLITION REQUIRED TO COMPLETE THE NEW WORK.
8. CONTRACTOR SHALL COORDINATE WITH OWNER PRIOR TO ANY WORK BEING DONE FOR THE REMOVAL, RELOCATION, AND/OR REUSE OF MECHANICAL EQUIPMENT DURING CONSTRUCTION.
9. PRIOR TO ANY WORK BEING DONE, CONTRACTOR SHALL MAKE A CAREFUL EVALUATION OF EXISTING CONDITIONS AND VERIFY ALL METHODS OF REMOVAL AND INSTALLATION OF MECHANICAL EQUIPMENT.
10. CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH THE WORK OF ALL OTHER TRADE PARTNERS.

DEMOLITION KEYNOTES

1. EXISTING WATER CLOSET, FLUSH VALVE, CARRIER AND RELATED PIPING TO BE REMOVED AND REPLACED WITH NEW. PREP SEWER BELOW FLOOR, VENT AND WATER PIPING FOR NEW CONNECTION
2. EXISTING LAVATORY, FAUCET, CARRIER AND RELATED FITTINGS TO BE REMOVED AND REPLACED. PREP SEWER, VENT AND WATER PIPING IN WALL FOR NEW CONNECTION
3. EXISTING SINK, FAUCET AND RELATED FITTINGS TO BE REMOVED AND REPLACED. PREP SEWER, VENT AND WATER PIPING IN WALL FOR NEW CONNECTION
4. EXISTING 4" STORM DRAIN RISER DN IN WALL TO BE REMOVED
5. EXISTING 4" STORM DRAIN BELOW GRADE. PREP FOR NEW CONNECTION
6. EXISTING 4" STORM DRAIN LINE ABOVE CEILING TO BE REROUTED TO NEW WALL. SEE 1/PE2.0



PLUMBING - BUILDING E - NEW FLOOR PLAN - WASTE AND WATER

1/4" = 1'-0" | 1

CONSTRUCTION GENERAL NOTES

1. FOR CLARITY, NOT ALL EXISTING WORK IS SHOWN ON PLAN. PLUMBING WORK SHOWN ON PLAN IS DIAGRAMATIC, CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS.
2. DEMOLISH/ REMOVE & PATCH EXISTING MATERIALS, ITEMS, OR FINISHES AS NECESSARY TO PERFORM NEW WORK WHERE INDICATED. PATCH EXISTING WALL/FLOOR TO MATCH ADJACENT MATERIALS/FINISHES.
3. COORDINATE EXTENT OF DEMOLITION/ REMOVAL WITH ARCHITECTURAL DRAWINGS.
4. CONDENSATE DRAIN PIPING SHALL SLOPE AT 1% UNLESS OTHERWISE NOTED ON PLANS.

CONSTRUCTION KEYNOTES

1. EXISTING WATER CLOSET, FLUSH VALVE, CARRIER AND RELATED PIPING TO BE REMOVED AND REPLACED WITH NEW. R.I&C TO (E)SEWER BELOW FLOOR, VENT AND WATER PIPING IN WALL.
2. EXISTING LAVATORY, FAUCET, CARRIER AND RELATED FITTINGS TO BE REMOVED AND REPLACED. R.I&C TO (E) SEWER, VENT AND WATER PIPING IN WALL.
3. EXISTING SINK, FAUCET AND RELATED FITTINGS TO BE REMOVED AND REPLACED. r.I&C TO (E) SEWER, VENT AND WATER PIPING IN WALL
4. POINT OF CONNECTION. CONNECT NEW 4"SD TO EXITING SD ABV CEILING.
5. 4"SD RISER DN IN NEW WALL TO BEL GRADE.
6. POINT OF CONNECTION. CONNECT NEW 4"SD TO EXISTING SD BEL GRADE.
7. (E)4"STORM DRAIN LINE UP TO ROOF DRAIN.
8. (E)4"STORM DRAIN LINE BELOW GRADE.

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PLEASANTON UNIFIED SCHOOL DISTRICT

CONSULTANT

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SHEET

PLUMBING - BUILDING E - FLOOR PLANS

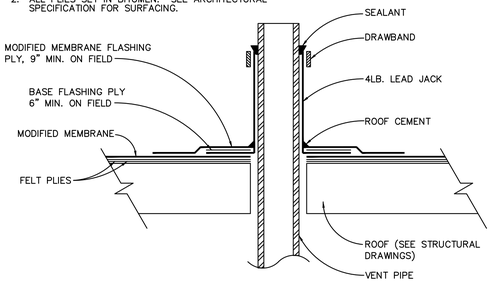
DATE 10/19/2021

JOB # 2020029.02

SHEET # PE2.0

NOTES:

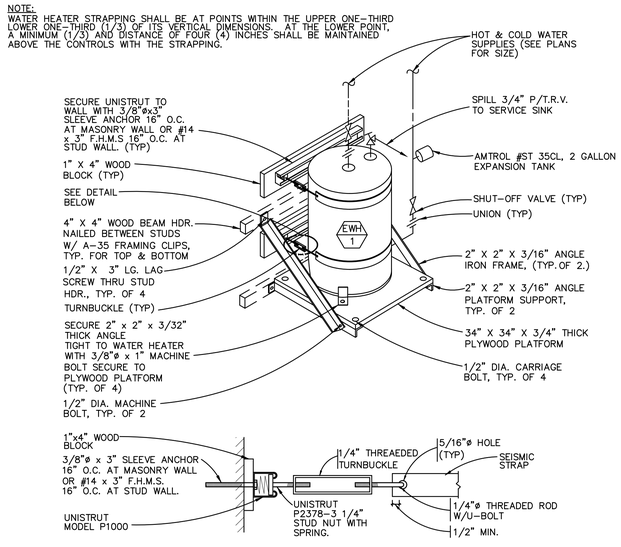
1. VENT PIPE SHALL TERMINATE AS PER UPC SECTION 906.0
2. ALL PLIES SET IN BITUMEN. SEE ARCHITECTURAL SPECIFICATION FOR SURFACING.



VENT THRU ROOF DETAIL

SCALE NONE | 8

NOTE:
WATER HEATER STRAPPING SHALL BE AT POINTS WITHIN THE UPPER ONE-THIRD LOWER ONE-THIRD (1/3) OF ITS VERTICAL DIMENSIONS. AT THE LOWER POINT, A MINIMUM (1/3) AND DISTANCE OF FOUR (4) INCHES SHALL BE MAINTAINED ABOVE THE CONTROLS WITH THE STRAPPING.



ELECTRIC WATER HEATER DETAIL

SCALE NONE | 7

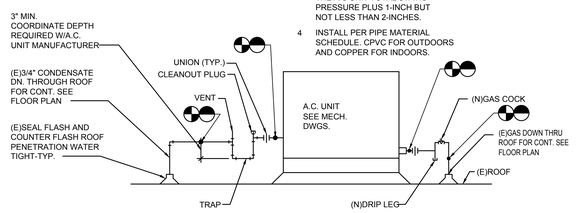
NOTES:

1 ALL CONDENSATE DRAIN LINES INSIDE BUILDING SHALL BE INSULATED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 22 00 00, PLUMBING SPECS

2 SEE DRAWING FOR SIZES.

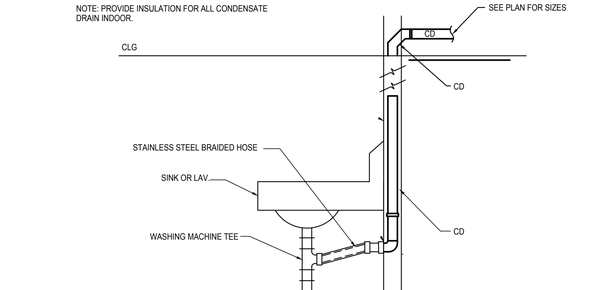
3 TRAP DEPTH SHALL BE EQUAL TO THE A/C UNIT TOTAL STATIC PRESSURE PLUS 1-INCH BUT NOT LESS THAN 2-INCHES.

4 INSTALL PER PIPE MATERIAL SCHEDULE. CPVC FOR OUTDOORS AND COPPER FOR INDOORS.



GAS AND CONDENSATE DRAIN CONNECTION TO AC UNIT ON ROOF

SCALE NONE | 6

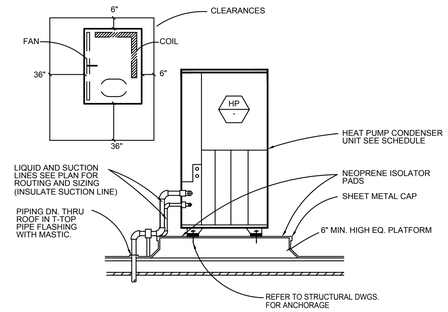


NOTES:

1. COORDINATE WITH ROOFING CONTRACTOR / MANUFACTURER TO ENSURE PROPER INSTALLATION IN ACCORDANCE WITH ALL ROOFING WARRANTEES, EXISTING OR NEW, AND SO AS NOT TO VOID SUCH WARRANTEES.

PIPE SUPPORT ON ROOF DETAIL

SCALE NONE | 5



HEAT PUMP UNIT MOUNTING DETAIL

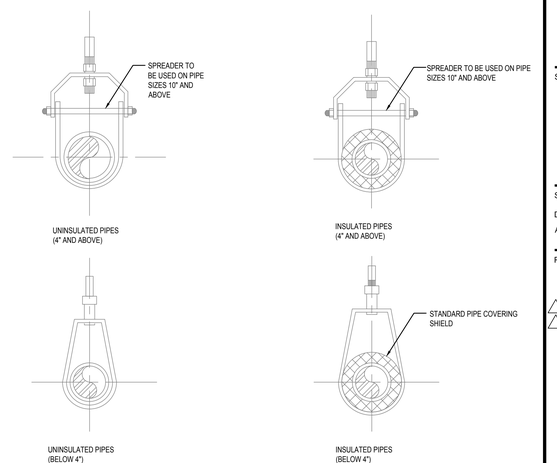
SCALE NONE | 4

PIPE SUPPORT BRACING / SPACING SCHEDULE		
TYPE OF PIPE	SIZE	MAX.SPACING
STEEL	1 1/2" AND SMALLER	7 FT.
	2" AND LARGER	10 FT.
BRASS OR COPPER	3/4" AND SMALLER	5 FT.
	1" TO 1-1/4"	6 FT.
	1-1/2" TO 3"	7 FT.
	4" AND LARGER	10 FT.

SCHEDULE FOR SINGLE PIPE HANGERS 3/4" THRU 6"			
TYPE NO.	PIPE SIZE	ROD SIZE	*MAXIMUM LOAD
1	3/4" THRU 2"	3/8"	500#
2	2 1/2" THRU 3 1/ 2"	1/2"	1000#
3	4" THRU 5"	5/8"	1500#
4	6" THRU 12"	3/4"	2000#

NOTES:

1. SUPPORT PIPE HANGERS FROM STRUCTURAL BEAM ONLY.
2. STRUCTURAL STEEL PENETRATIONS SHALL BE FIRST REVIEWED AND APPROVED BY THE STRUCTURAL ENGINEER. (IF APPLICABLE)
3. HANGER AND ROD SHALL BE DIPPED IN ZINC CHROMATE PRIMER PRIOR TO INSTALLATION.
4. SCHEDULED DATA MAY ALSO BE USED FOR TRAPEZE HANGER SELECTION WITH EACH ROD NOT TO EXCEED THE LOADS SHOWN IN THE MAXIMUM LOAD COLUMN.
5. FOR THE MAXIMUM HANGING ALLOWED IN THE STRUCTURE REFER TO STRUCTURAL DETAILS.

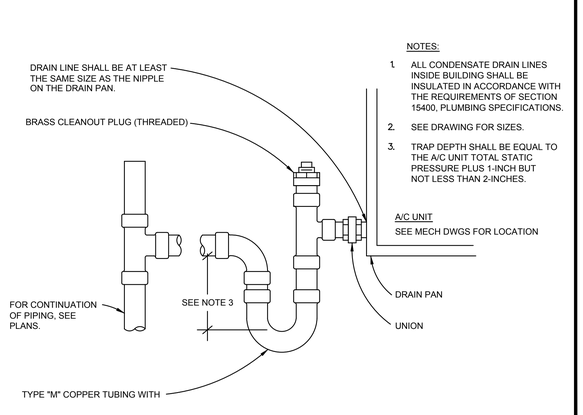


TYPICAL PIPE HANGER DETAIL

SCALE NONE | 2

CONDENSATE DRAIN CONNECTION TO TAILPIECE

SCALE NONE | 3



CONDENSATE TRAP DETAIL

SCALE NONE | 1

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PLUMBING DETAILS

DATE 10/19/2021

JOB # 2020029.02

SHEET # PC4.1

GENERAL NOTES

1. THIS CONTRACTOR SHALL SUPPLY POWER TO AND MAKE CONNECTION TO ALL MOTORS AND EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS AS SHOWN ON THE MECHANICAL AND PLUMBING DRAWINGS, INCLUDING ALL FRACTIONAL HORSEPOWER MOTORS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE MECHANICAL AND PLUMBING DRAWINGS FOR DUCTS, LINES AND EQUIPMENT.
2. ALL COMMUNICATIONS WORK SHALL BE COORDINATED WITH THE COMMUNICATION SYSTEMS EQUIPMENT MANUFACTURER AND THE SCHOOL DISTRICT MAINTENANCE DEPARTMENT PRIOR TO ROUGH -IN AND INSTALLATION OF ANY AND ALL COMMUNICATION SYSTEM DEVICES AND RELATED CONDUIT AND WIRE.
3. THE CONTRACTOR SHALL SECURE AND PAY FOR PERMITS AND FEES NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK, INCLUDING ALL CHARGES BY THE LOCAL GOVERNMENT AGENCIES AND THE UTILITY COMPANIES.
4. UNLESS OTHERWISE NOTED, MOUNTING HEIGHTS INDICATED ON ELECTRICAL OUTLETS ARE FROM FINISHED FLOOR TO CENTER OF OUTLETS.
5. NO CONDUIT SHALL BE RUN HORIZONTALLY IN CONCRETE FLOOR SLABS.
6. ALL FINAL CONNECTIONS TO OWNER-FURNISHED EQUIPMENT SHALL BE MADE BY THIS CONTRACTOR.
7. 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, OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING 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 COMPONENTS 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 THE ATTACHMENT 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:

   A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
   B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

   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 THE 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 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2019 CBC, SECTIONS 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 FOR 2013 CBC OR LATER,), COPIES OFTHE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

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

   MP☐MD☐PP☐E☒ - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECTS SPECIFIC NOTES AND DETAILS.

   MP☐MD☐PP☐E☐ - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) # _____
8. SHUT DOWN OF EXISTING ELECTRICAL SYSTEMS SERVING THE REST OF THE SCHOOL WILL NOT BE ALLOWED.
9. THIS CONTRACTOR SHALL COORDINATE ALL LINE AND LOW VOLTAGE COMPONENTS AND WIRING TYPES TO, MATCH EXISTING SYSTEMS, WITH THE SCHOOL DISTRICT PRIOR TO BID AND INCLUDE ALL COSTS FOR A COMPLETE OPERABLE SYSTEM EXPANSION.
10. ALL EXPOSED CONDUIT SHALL BE PAINTED TO MATCH EXISTING FINISH.
11. THE NUMERAL(S) SHOWN AT TOP LIGHT FIXTURE IDENTIFICATION SYMBOL WHICH INDICATES NUMBER OF LIGHT FIXTURES REQUIRED SHALL NOT BE USED BY THE CONTRACTOR FOR HIS QUANTITY TAKE-OFF AT BIDDING OR FOR DETERMINATION OF HOW MANY FIXTURES WILL BE INSTALLED. THE CONTRACTOR SHALL INSTALL A LIGHT FIXTURE WHEREVER A FIXTURE OUTLET IS SHOWN ON DRAWINGS.
12. IDENTIFICATION NAME PLATES FOR PANELS AND SWITCHBOARDS/DISTRIBUTION PANEL FEEDER CIRCUIT BREAKERS SHALL MATCH THE NOMENCLATURE PROVIDED BY THE OWNER AT THE END OF THE CONTRACT.
13. ALL EXTERIOR MOUNTED EQUIPMENT SHALL BE WEATHERPROOF AND PROVIDED IN A WEATHERPROOF ENCLOSURE.
14. INSTALL RACEWAY SYSTEMS AS FOLLOWS:

    A. RIGID GALVANIZED STEEL IN ALL OUTDOOR LOCATIONS AND IN INDOOR LOCATIONS WHERE SUBJECT TO PHYSICAL DAMAGE.

    B. I.M.C. OR E.M.T. IN ALL INDOOR AREAS.

    C. FLEXIBLE METAL CONDUIT FOR FINAL CONNECTIONS TO LIGHT FIXTURES, MOTORS, VIBRATING ELECTRICAL EQUIPMENT AND HORIZONTAL RUNS IN WOOD STUD WALLS.

    D. PVC CONDUIT FOR UNDERGROUND RUNS. USE 20 MIL PVC TAPED RIGID STEEL RISER ELBOWS AND RISERS FOR CONDUIT STUB-UPS.

    E. USE COMPRESSION TYPE FITTINGS FOR ALL METALLIC CONDUIT.

    F. 1" CONDUIT MINIMUM FOR UNDERGROUND INSTALLATIONS.
15. ALL NEW WIRING SHALL BE COPPER.
16. PROVIDE THE OWNER AND THIS ENGINEER WITH ONE SET OF ELECTRICAL "AS-BUILTS" AT THE COMPLETION OF JOB.
17. CONDUIT ROUTING INDICATED ON THESE PLANS IS DIAGRAMMATIC. ACTUAL ROUTING OF CONDUITS SHALL BE COORDINATED IN THE FIELD TO AVOID INTERFERENCE WITH OTHER UTILITIES AND TRADES. THE CONTRACTOR SHALL INSTALL ALL CONDUIT, JUNCTION/PULL BOXES, ETC., AS REQUIRED FOR A COMPLETE SYSTEM IN FULL COMPLIANCE WITH ALL APPLICABLE CODES.
18. ALL OUTLET LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION.
19. EXACT LOCATION OF ALL CEILING MOUNTED DEVICES SHALL BE AS INDICATED ON THE ARCHITECTURAL REFLECTED CEILING PLANS.
20. ELECTRICAL CONTRACTOR SHALL PERFORM ALL WORK IN STRICT ACCORDANCE WITH GOVERNING CODES.
21. ALL EQUIPMENT SHALL BE NEW AND BEAR A "UL" LABEL - U.O.N..
22. COMPLETE ELECTRICAL INSTALLATION SHALL BE GUARANTEED IN WRITING FOR A PERIOD OF (1) YEAR - U.O.N..
23. ELECTRICAL CONTRACTOR SHALL VISIT SITE PRIOR TO BID DATE, TO VERIFY ALL EXISTING CONDITIONS TO BE ENCOUNTERED IN THE INSTALLATION OF ALL NEW EQUIPMENT, FIXTURES DEVICES, FEEDERS, ETC.. EXACT INSTALLATION METHOD AND REQUIREMENTS SHALL BE VERIFIED AND DETERMINED PRIOR TO BID DATE. CONTRACTORS SHALL IMMEDIATELY NOTIFY THIS ENGINEER OF ANY REQUIRED MODIFICATIONS WHICH ARE NOT SHOWN ON THESE DRAWINGS. SUBMITTAL OF BID INDICATES CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED.
24. ALL EQUIPMENT ELECTRICAL CHARACTERISTICS, LOCATIONS, AND CONNECTION REQUIREMENTS SHALL BE VERIFIED PRIOR TO ANY ROUGH-IN WORK.
25. ALL POWER AND LIGHTING BRANCH CIRCUITS SHALL BE INSTALLED WITH A #12 GREEN GROUND WIRE U.O.N. THE COMPLETE ELECTRICAL SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH ARTICLE 250 OF THE CALIFORNIA ELECTRICAL CODE (CEC).
26. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO DO ALL CORING, CUTTING, PATCHING AND REFINISHING OF WALLS AND SURFACES WHEREVER IT IS NECESSARY FOR HIM TO PENETRATE FOR HIS WORK. ALL OPENINGS MADE SHALL BE SEALED TO MEET THE RATED INTEGRITY OF THE PARTICULAR WALL, FLOOR OR CEILING.
27. THE CONTRACTOR SHALL STRATEGICALLY LOCATE JUNCTION BOXES AND PULL BOXESBOXES, ETC., IN ACCESSIBLE CEILING SPACES. PROVIDSE ACCESS PANELS WHERE JUNCTION/PULL BOXES ARE LOCATED IN INACCESSIBLE CEILING SPACES. COORDINATE LOCATION OF REQUIRED ACCESS PANELS PRIOR TO ROUGH-IN.
28. ALL WIRING AND ELECTRICAL EQUIPMENT INSTALLED FOR MECHANICAL AND PLUMBING EQUIPMENT SHALL BE IN ACCORDANCE WITH THESE DRAWINGS AND THE WIRING DIAGRAMS OF THE MECHANICAL AND PLUMBING DRAWINGS.
29. UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBER 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.

REFERENCES & ABBREVIATIONS

⊖	DETAIL REFERENCE	MCB	MAIN CIRCUIT BREAKER
[1]	KEYNOTE REFERENCE	FLA	FULL LOAD AMPS
A.F.F.	ABOVE FINISH FLOOR	C.	CONDUIT
U.O.N.	UNLESS OTHERWISE NOTED	V.	VOLTS
C.O.	CONDUIT ONLY W/PULL ROPE	A	AMPS
WP	WEATHER PROOF	GND	GROUND
CU.	COPPER	V.L.	VERIFY LOCATION
M.L.O.	MAIN LUGS ONLY	A.C.	ABOVE COUNTER
E or (E)	EXISTING TO REMAIN	N.L.	NIGHT LIGHT
GFI	GROUND FAULT INTERRUPTER	EM.	EMERGENCY
(E) B.P.A.	EXISTING BACK FLOW ASSEMBLY TO REMAIN	(E) D.C.D.A.	EXISTING DOUBLE CHECK DETECTOR ASSEMBLY TO REMAIN
(E) P.I.V.	EXISTING POST INDICATOR VALVE OF GYMNASIUM TO REMAIN	(E) F.H.	EXISTING FIRE HYDRANT TO REMAIN
(E) F.D.C.	EXISTING FIRE DEPARTMENT CONNECTION OF GYMNASIUM TO REMAIN		

DEMOLITION NOTES

1. ALL ELECTRICAL EQUIPMENT, OUTLETS, DEVICES, ETC., THAT ARE MARKED FOR DELETION SHALL BE REMOVED COMPLETELY, INCLUDING CONDUIT AND WIRES BACK TO THE LAST REMAINING FIXTURE, OUTLET, DEVICE, ETC.
2. WHERE EXISTING OUTLET/DEVICES TO REMAIN ARE FED BY OUTLETS BEING REMOVED BY WORK UNDER THIS CONTRACT, THE CONTRACTOR SHALL ROUTE NEW CONDUIT, WIRE, ETC., AS REQUIRED TO MAINTAIN THE SUBJECT OUTLETS IN OPERATION.
3. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO REMOVAL OF EXISTING ELECTRICAL/LOW VOLTAGE EQUIPMENT AND TURN OVER REMOVED EQUIPMENT THAT THE OWNER REQUESTS, IN AS-FOUND CONDITION. EQUIPMENT THAT IS TO BE TURNED OVER SHALL BE BOXED AND TAGGED TO IDENTIFY THE SPECIFIC EQUIPMENT.
4. ALL EXISTING CONDUITS WITHIN PROJECT AREA FOR LIGHTING FIXTURES, RECEPTACLES, OTHER BRANCH CIRCUITS LOADS AND COMMUNICATIONS/SIGNAL SYSTEMS, WHETHER SHOWN ON PLANS OR NOT, SHALL BE A PART OF THIS CONTRACT.
5. IN GENERAL, THE DEMOLITION PLAN SHOWS EXISTING EQUIPMENT THAT IS TO REMAIN, BE REMOVED OR REMOVED AND RELOCATED. HOWEVER, ELECTRICAL EQUIPMENT WHETHER SHOWN ON THIS DRAWING OR NOT, THAT IS LOCATED IN A REMOVED WALL OR CEILING, SHALL BE REMOVED UNLESS OTHERWISE NOTED.
6. WHERE EXISTING EQUIPMENT IS REMOVED BY WORK UNDER THIS CONTRACT, EXISTING CONDUIT FEEDS UP THROUGH FLOOR/ROOF SHALL BE CUT OFF AND PLUGGED FLUSH WITH FLOOR AND CONDUCTORS REMOVED FROM THAT POINT BACK TO THE LAST OUTLET REMAINING IN SERVICE. WHERE THE SUBJECT CONDUIT FEEDS OUTLETS/ DEVICES REMAINING IN OPERATION THE CONTRACTOR SHALL REROUTE THE SUBJECT CONDUIT AND CONDUCTORS AS REQUIRED TO MAINTAIN OPERATION OF SUCH CIRCUITS/SYSTEMS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND DIMENSION ALLSUCH CONDUITS ON THE "RECORD" DRAWINGS.
7. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO MAINTAIN CONTINUITY OF ALL ELECTRICAL AND COMMUNICATION SYSTEMS, EQUIPMENT, ETC., REMAINING IN OPERATION. MAINTAINING CONTINUITY SHALL CONSIST OF RE-ROUTING CONDUIT, WIRE, ETC., AS REQUIRED TO MAINTAIN THE SUBJECT SERVICES IN OPERATION.
8. EXISTING CIRCUITS THAT ARE REMOVED AND NOT RE-USED SHALL BE IDENTIFIED ON THE PANEL SCHEDULE AS "SPARE".
9. REFER TO GENERAL NOTES, THIS SHEET, FOR ADDITIONAL REQUIREMENTS.

SYMBOL LIST

- CONDUIT RUN, CONCEALED IN CEILING, WALLS OR UNDER FLOOR 3/4" MIN.
- CONDUIT RUN, UNDERGROUND.
- CONDUIT STUBBED OUT AND CAPPED. PULL LINE IN PLACE.
- FLEXIBLE CONDUIT. SEALTITE WHERE EXPOSED TO WEATHER. REFER TO SPECIFICATIONS FOR USE.
- CONDUIT TURNED DOWN.
- CONDUIT TURNED UP.
- #10 — CROSS LINES ON CONDUIT RUNS INDICATE NUMBER OF #12 WIRES CONTAINED THEREIN. TWO #12 ARE TO BE PROVIDED WHEN CROSS LINES ARE NOT SHOWN. NUMERALS ADJACENT TO CROSS LINES ON CONDUIT RUNS INDICATE SIZE OF CONDUCTORS IN LIEU OF #12. PROVIDE CONDUIT SIZE AS REQUIRED TO ACCOMMODATE THE WIRE SIZE TO BE CONTAINED THEREIN.
- B-1,3 — CONDUIT HOME RUN TO PANELBOARD. LETTER AND NUMERALS INDICATES ELECTRICAL PANEL AND CIRCUIT NUMBER.
- BRANCH CIRCUIT PANEL, MOUNTING AS SHOWN ON SCHEDULES.
- MOLDED CASE CIRCUIT BREAKER (SINGLE LINE DIAGRAM).
- AT — CIRCUIT BREAKER AMPERE TRIP RATING (SINGLE LINE DIAGRAM).
- GROUND.
- E — EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
- ER — EXISTING CONDUIT AND CONDUCTORS TO BE DISCONNECTED AND REMOVED.
- EA — EXISTING CONDUIT TO BE ABANDONED IN PLACE. CONDUCTORS TO BE DISCONNECTED AND REMOVED.
- EN — EXISTING CONDUIT WITH NEW CONDUCTORS.
- EX — EXISTING CONDUIT TO BE RE-USED. DISCONNECT AND REMOVE CONDUCTORS.
- D — DATA NETWORK CONDUIT WITH REQUIRED QUANTITY OF CAT 6 CABLES RUN CONCEALED 3/4" MINIMUM UNLESS OTHERWISE NOTED ON PLAN.
- (E) EXISTING EQUIPMENT TO REMAIN IN OPERATION.
- (N) NEW EQUIPMENT.
- (R) EXISTING EQUIPMENT TO DISCONNECTED AND REMOVED.
- (RR) EXISTING EQUIPMENT TO DISCONNECTED, REMOVED AND RELOCATED..
- (EN) EXISTING EQUIPMENT AT NEW LOCATION.
- EXIT SIGN.
- AC / 1 — HVAC EQUIPMENT DESIGNATION. SEE MECHANICAL PLANS.
- JUNCTION BOX.
- DUPLEX RECEPTACLE, FLUSH IN WALL, GROUNDING TYPE (20 AMP, 120V., WALL PLATE TO MATCH DEVICE) MTD. AT +18".
- DOUBLE DUPLEX RECEPTACLE, FLUSH IN WALL (20 AMP, 120 V., WALL PLATE TO MATCH DEVICE) MTD. AT +18".
- GFI — DUPLEX RECEPTACLE, WITH GROUND FAULT INTERRUPTER (20 AMP, 120V., 3W, WALL PLATE TO MATCH DEVICE) MTD. AT +18".
- GFI — DOUBLE DUPLEX RECEPTACLE, FLUSH IN WALL WITH GROUND FAULT INTERRUPTER (20 AMP, 120 V., WALL PLATE TO MATCH DEVICE) MTD. AT +18".
- T — THERMOSTAT. WITH 4"C.O. BACKBOX AND 3/4" CONDUIT STUB-UP MOUNTED AT +48" A.F.F. TO TOP OF BOX. SEE MECHANICAL.
- F — DUPLEX GROUNDING RECEPTACLE FLUSH IN FLOOR. PROVIDE COMPLETE WITH FULLY ADJUSTABLE 2-GANG FLOOR BOX, COLLAR ASSEMBLY, CARPET FLANGE AND BRASS COVERS.
- HALF SWITCHED (ONE RECEPTACLE CONTROLLED BY OCCUPANT SENSOR) DUPLEX RECEPTACLE, FLUSH IN WALL, GROUNDING TYPE (20 AMP, 120V., WALL PLATE TO MATCH DEVICE) MTD. AT +18".
- F — FLUSH FLOOR MOUNTED DOUBLE DUPLEX RECEPTACLE.
- F — DUPLEX GROUNDING RECEPTACLE FLUSH IN FLOOR. PROVIDE COMPLETE WITH FULLY ADJUSTABLE 1-GANG FLOOR BOX, COLLAR ASSEMBLY, CARPET FLANGE AND BRASS COVERS. WIREMOLD OMNIBOX SERVIES OR APPROVED EQUAL.

- S3a — SINGLE POLE SWITCH, LETTER AT BOTTOM INDICATES OUTLETS CONTROLLED. MOUNTED AT +48" TO TOP OF THE BOX. STAINLESS STEEL WALL PLATE. SUPERSCRIPT DENOTES:
  2 - DOUBLE POLE — P - PILOT LIGHT
  3 - THREE WAY — K - KEY OPERATED
  4 - FOUR WAY — T - TIMER
- Sm — MANUAL MOTOR STARTER WITH THERMAL OVERLOAD. RATING AND NUMBER OF POLES PER THE EQUIPMENT NAMEPLATE DATA.
- JC — JUNCTION BOX. C = CEILING MOUNTED.
- TC — 7-DAY PROGRAMMABLE TIME CLOCK, REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- SPECIALTY RECEPTACLE/OUTLET. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT VENDOR/SUPPLIER. WHERE A RECEPTACLE IS REQUIRED PROVIDE COMPLETE WITH STAINLESS STEEL WALL PLATE AND VOLTAGE, AMPERE RATING AND CONFIGURATION TO MATCH VENDOR SUPPLIED PLUG. WHERE HARD WIRED CONNECTION IS REQUIRED PROVIDE STAINLESS STEEL WALL PLATE WITH GROMMETT AND SEAL-TITEFLEXIBLE CONDUIT AND CONDUCTORS FOR FINAL CONNECTION TO THE VENDOR SUPPLIED EQUIPMENT. MTD. AT +18".
- DATA OUTLET WITH 4" SQUARE BACKBOX AND (1) 3/4"C. STUB-UP INTO THE ACCESSIBLE CEILING. MOUNTED AT +18" A.F.F.-U.O.N. W=48" A.F.F.
- COMBINATION TELEPHONE/DATA OUTLET WITH 4 11/16" SQUARE BACKBOX AND (2) 3/4"C. STUB-UPS INTO CEILING SPACE. MOUNTED AT +18" A.F.F.- U.O.N.
- 3 / A / +20'-0" — LIGHTING FIXTURE IDENTIFICATION SYMBOL. LETTER INDICATES TYPE OF FIXTURE. NUMERAL AT TOP OF HEXAGON INDICATES NUMBER OF FIXTURES REQUIRED. NUMBER AT BOTTOM OF HEXAGON INDICATES MOUNTING HEIGHT FROM FLOOR TO BOTTOM OF FIXTURE. OMISSION OF MOUNTING HEIGHT INDICATES CEILING MOUNTING.
- SECURITY SYSTEM DOOR SWITCH, JAMB MOUNTED. CONTRACTOR TO PROVIDE COMPLETE CONDUIT SYSTEM FOR ALL CABLING / CONDUCTORS.
- WAP — "POE" WIRELESS ACCESS POINT PROVIDED WITH TWO (2) CAT 6 CABLES. CONTRACTOR TO PROVIDE COMPLETE CONDUIT SYSTEM FROM WIRELESS ACCESS POINT ALL THE WAY BACK TO THE SERVER RACK IN THE COMMUNICATIONS ROOM.
- T — THERMOSTAT. MOUNTED AT +48" A.F.F. TO TOP OF BOX. SEE MECHANICAL.
- MOTION DETECTOR. PROVIDE BACKBOX AND CONDUIT ONLY.
- K — SECURITY KEY PAD. PROVIDE BACKBOX AND CONDUIT ONLY.
- IP CLOCK. PROVIDE WITH BACKBOX AND BAFFLE.
- WP S — OUTCOOR IP SPEAKER IN WEATHER PROOF BOX.
- S — CEILING MOUNTED IP INTERCOM SPEAKER. PROVIDE BACKBOX AND CONDUIT ONLY.
- VIDEO SURVEILLANCE SYSTEM CAMERA.
- E — ELECTRICAL NOTE CALLOUT.
- AS/ P/ AE_ — FUSED DISCONNECT SWITCH. HEAVY DUTY TYPE WITH REQUIRED QUANTITY OF DUAL ELEMENT TIME DELAY FUSES FOR USE ON 480V. CIRCUITS. GENERAL DUTY RATED SWITCHES WITH REQUIRED QUANTITY OF DUAL ELEMENT TIME DELAY FUSES FOR USE ON 250V. CIRCUITS. NEMA 3R FOR OUTDOOR USE. AS=SWITCH AMPERE RATING. P=NUMBER OF POLES. AF=FUSE AMPERE RATING.
- WP — WEATHERPROOF.
- LIGHT FIXTURE. SHADING INDICATES FIXTURE TO BE PROVIDED WITH 90 MINUTES EMERGENCY BATTERY PACK OR INVERTER. SEE LIGHTING PLAN FOR ADDITIONAL REQUIREMENTS.
- CEILING MOUNTED LED LIGHT FIXTURE. SHADING INDICATES FIXTURE TO BE PROVIDED WITH 90 MINUTES EMERGENCY BATTERY PACK OR INVERTER. SEE LIGHTING PLAN FOR ADDITIONAL REQUIREMENTS.
- CEILING MOUNTED SQUARE LED LIGHT FIXTURE. SHADING INDICATES FIXTURE TO BE PROVIDED WITH 90 MINUTES EMERGENCY BATTERY PACK OR INVERTER. SEE LIGHTING PLAN FOR ADDITIONAL REQUIREMENTS.
- S — COMBINATION SURFACE MOUNTED IP SPEAKER AND CLOCK.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119816 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 02/25/2022

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PROJECT

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CONSULTANT

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STAMP

REGISTERED PROFESSIONAL ENGINEER — ROLAND E. SOTO — No. E17229 — 6/30/22 — ELECTRICAL — STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 1-32

APPL # 01-119816

REVISIONS

MILESTONES

SD	06/28/2021
DD	08/23/2021
50% CD	09/20/2021
90% CD	10/14/2021
DSA SUB	10/21/2021

SHEET

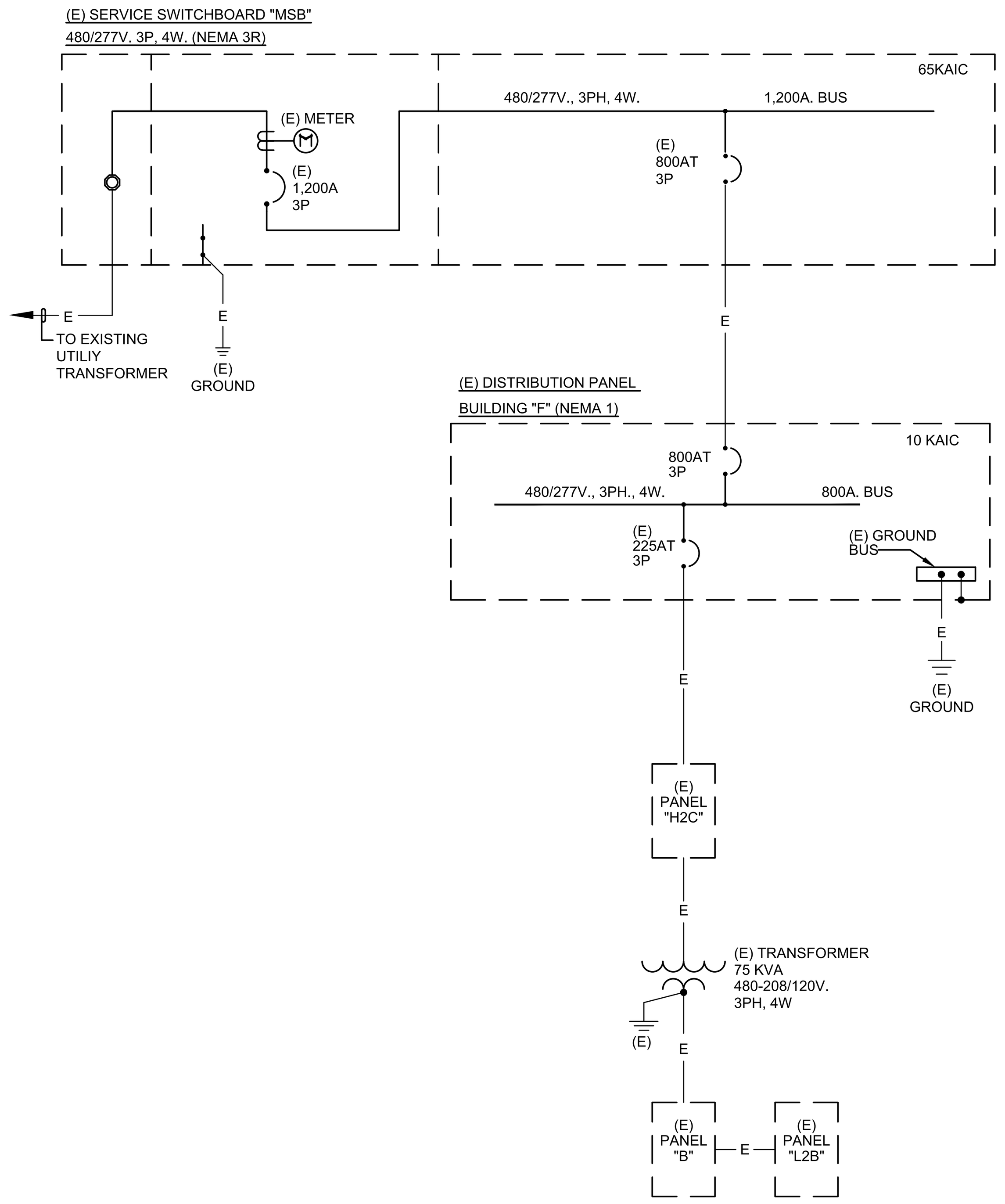
GENERAL NOTES AND SYMBOLS LIST

DATE 10/21/2021

JOB # 2020029.02

SHEET # E-0.1

SINGLE LINE DIAGRAM - BUILDING "C"



PANEL SCHEDULES - BUILDING "C"

(E)PANEL "H2C" MAIN BREAKER: 225A SCA: 14 KAIC
VOLTAGE: 480/277V-4-WIRE BUS SIZE MOUNT: SURFACE
LOCATION: ELEC RM - BLDG. B COPPER: 250A ENTRY: BOTTOM

	DESCRIPTION	CKT	BKR	P	LTS	REC	MSC	MTR	A-VA	B-VA	C-VA	AMPS
□	LIGHTS - RM C8, C9, C10,C11, C12	1	20	1	35				1215			
	LIGHTS - RM C1, C2, C3, C4	3	20	1	69					2291		
	LIGHTS - RM C14 - C23	5	20	1	63						1964	
	OUTSIDE LIGHTS	7	20	1	17				496			
*	WATER HEATER	9	20	1								
	EXISTING LOAD	11	20	1								
	SPACE	13	-	-								
	EXISTING LOAD	15	20	1								
	EXISTING LOAD	17	20	1								
□	RTU-C1	19	20	3				1	3045			
	W.CKT. 19	21	-	-						3045		
	W.CKT. 19	23	-	-							3045	
	RTU-C2	25	20	3				1	3045			
	W.CKT. 25	27	-	-						3045		
	W.CKT. 25	29	-	-							3045	
	RTU-C3	31	20	3				1	2906			
	W.CKT. 31	33	-	-						2906		
	W.CKT. 31	35	-	-							2906	
	RTU-C4	37	20	3				1	2906			
	W/CKT. 37	39	-	-						2906		
	W/CKT. 37	41	-	-							2906	
	SUB TOTAL VOLT/AMPS:								13613	14193	13866	
*	EXISTING LOAD	2	20	1								
	EXISTING LOAD	4	20	1								
	EXISTING LOAD	6	20	1								
	EXISTING LOAD	8	20	2								
	W/CKT. 8	10	-	-								
	EXISTING LOAD	12	20	1								
	TRANSFORMER	14	125	3					19212			
	W/CKT. 14	16	-	-						14628		
	W/CKT. 14	18	-	-							13914	
□	RTU-C5	20	20	3				1	4180			
	W.CKT. 20	22	-	-						4180		
	W.CKT. 20	24	-	-							4180	
	RTU-C6	26	20	3				1	2906			
	W.CKT. 26	28	-	-						2906		
	W.CKT. 26	30	-	-							2906	
	RTU-C7	32	20	3				1	3045			
	W.CKT. 32	34	-	-						3045		
	W.CKT. 32	36	-	-							3045	
*	EXISTING LOAD	38	20	3								
	W.CKT. 38	40	-	-								
	W.CKT. 38	42	-	-								
	SUB TOTAL VOLT/AMPS:								29343	24759	24045	
	TOTAL VOLT/AMPS:								42956	38952	37911	
	TOTAL LCL/PHASE:								1711	2291	1964	
	TOTAL VOLT/AMPS:								44667	41243	39875	
	TOTAL AMPS/PHASE:								161	149	144	

CONNECTED: 119819 VA
25% OF MTR: 2283.75 VA
25% OF LCL: 1492 VA
CALCULATED: 123594.25 VA = 148.7 AVERAGE AMPS

* = INDICATES EXISTING LOAD TO REMAIN. (LOADS FROM AS-BUILT DRAWINGS)
□ = INDICATES NEW LOAD ON EXISTING CIRCUIT BREAKER.

(E)PANEL "B" MAIN BREAKER: 300A SCA: 10 KAIC
VOLTAGE: 120/208V-4-WIRE BUS SIZE MOUNT: SURFACE
LOCATION: ELEC RM COPPER: 300A ENTRY: BOTTOM

	DESCRIPTION	CKT	BKR	P	LTS	REC	MSC	MTR	A-VA	B-VA	C-VA	AMPS
□	RECEPT. CLASSROOM C1	1	20	1		5			900			
	RECEPT. CLASSROOM C1	3	20	1		7				1260		
	RECEPT. CLASSROOM C2	5	20	1		5					900	
	RECEPT. CLASSROOM C2	7	20	1		7			1260			
	RECEPT. CLASSROOM C3	9	20	1		5				900		
	RECEPT. CLASSROOM C3	11	20	1		7					1260	
	RECEPT. CLASSROOM C4	13	20	1		5			900			
	RECEPT. CLASSROOM C4	15	20	1		7				1260		
	RECEPT. RM C5, C6	17	20	1		5					900	
	RECEPT. RM C6, C7	19	20	1		4			720			
	RECEPT. RM C10, C11, C12	21	20	1		10				1800		
	RECEPT. RM C8	23	20	1		9					1620	
	RECEPT. RM C15, C17	25	20	1		8			1440			
	RECEPT. RM C19	27	20	1		8				1440		
	RECEPT. RM C16, C18	29	20	1		9					1620	
	RECEPT. RM C31	31	20	1		6			1440			
	RECEPT. RM C33	33	20	1		8				1080		
*	RECEPTACLES	35	20	1								
	PANEL L2B	37	100	3					7094			
	W/CKT. 37	39	-	-						3988		
	W/CKT. 37	41	-	-							4404	
	SUB TOTAL VOLT/AMPS:								13754	11728	10704	
□	WATER HEATER EWH-1	2	20	2			1		1500			
	W/CKT. 2	4	-	-						1500		
	RECEPT. RM C13, C23	6	20	1		5					900	
	RECEPT. RM C23, C24	8	20	1		4			720			
	SF-1	10	20	1			1			600		
	EF-1	12	20	1			1				10	
	EF-2	14	20	1			1		10			
	PELICAN GATEWAY GW400	16	20	1			1			100		
*	FAEP-B	18	20	1							100	
	IDF	20	20	1					200			
	SPARE	22	20	1								
	FC-1B	24	20	1							200	
	REF	26	20	1					700			
○	SPARE	28	15	1								
*	CU-1B	30	30	2							1300	
	W/CKT. 30	32	-	-					1300			
	HAND DRYER - BOYS RESTROOM	34	15	1						700		
	HAND DRYER - GIRLS RESTROOM	36	15	1							700	
□	SITE LIGHTING	38	20	1	3				1028			
○	SPARE	40	20	2								
○	W/CKT. 40	42	-	-								
	SUB TOTAL VOLT/AMPS:								5458	2900	3210	
	TOTAL VOLT/AMPS:								19212	14628	13914	
	TOTAL LCL/PHASE:								0	0	0	
	TOTAL VOLT/AMPS:								19212	14628	13914	
	TOTAL AMPS/PHASE:								160	122	116	

CONNECTED: 47754 VA
25% OF MTR: 0 VA
25% OF LCL: 0 VA
CALCULATED: 47754 VA = 132.6 AVERAGE AMPS

* = INDICATES EXISTING LOAD TO REMAIN. (LOADS FROM AS-BUILT DRAWINGS)
□ = INDICATES NEW LOAD ON EXISTING CIRCUIT BREAKER.
○ = INDICATES EXISTING LOAD TO BE REMOVED AND RENAME THE BREAKER AS SPARE.

(E)PANEL "L2B" MAIN BREAKER: 100A SCA: 10 KAIC
VOLTAGE: 120/208V-4-WIRE BUS SIZE MOUNT: SURFACE
LOCATION: ELEC RM - BLDG. B COPPER: 125A ENTRY: BOTTOM

	DESCRIPTION	CKT	BKR	P	LTS	REC	MSC	MTR	A-VA	B-VA	C-VA	AMPS
□	HP-1/ FC-1	1	20	2				1	1560			
	W/CKT.1	3	-	-						1560		
	HP-2/ FC-2	5	20	2				1			1560	
	W/CKT.5	7	-	-					1560			
*	SPARE	9	20	1								
*	EMS	11	20	1							500	
□	HP-3	13	20	2				1	1560			
	W/CKT.13	15	-	-						1560		
	HP-4	17	20	2				1			1560	
	W/CKT.17	19	-	-					1560			
	FC-3	21	20	2				1		84		
	W/CKT. 21	23	-	-							84	
	FC-4	25	20	2				1	84			
	W/CKT. 23	27	-	-						84		
	SPARE	29	20	1								
	SUB TOTAL VOLT/AMPS:								6324	3288	3704	
△	ROOF RECEPTACLES	2	20	1		4			720			
	HAND DRYER - UNISEX RR C13	4	20	1			1			700		
	HAND DRYER - UNISEX RR C5	6	20	1			1				700	
	DUCT DETECTOR	8	20	1			1		50			
	SPARE	10	20	1								
	SPARE	12	20	1								
○	SPARE	14	20	1								
	SPARE	16	20	1								
	SPARE	18	20	1								
	SPARE	20	20	1								
	SPARE	22	20	1								
	SPARE	24	20	1								
	SPARE	26	20	1								
	SPARE	28	20	1								
	SPARE	30	20	1								
	SUB TOTAL VOLT/AMPS:								770	700	700	
	TOTAL VOLT/AMPS:								7094	3988	4404	
	TOTAL LCL/PHASE:								0	0	0	
	TOTAL VOLT/AMPS:								7094	3988	4404	
	TOTAL AMPS/PHASE:								59	33	37	

CONNECTED: 15486 VA
25% OF MTR: 780 VA
25% OF LCL: 0 VA
CALCULATED: 16266 VA = 45.2 AVERAGE AMPS

* = INDICATES EXISTING LOAD TO REMAIN. (LOADS FROM AS-BUILT DRAWINGS)
□ = INDICATES NEW LOAD AND NEW CIRCUIT BREAKER.
○ = INDICATES EXISTING LOAD TO BE REMOVED AND RENAME THE BREAKER AS SPARE.
△ = INDICATES NEW LOAD ON EXISTING CIRCUIT BREAKER.

PANEL SCHEDULES - BUILDING "E"

(E)PANEL "L2" MAIN BREAKER: M.L.O. SCA: 10 KAIC
VOLTAGE: 120/208V-4-WIRE BUS SIZE MOUNT: SURFACE
LOCATION: ELEC RM COPPER: 250A ENTRY: BOTTOM

	DESCRIPTION	CKT	BKR	P	LTS	REC	MSC	MTR	A-VA	B-VA	C-VA	AMPS
*	RECEPTACLES	1	20	1					800			
	RECEPTACLES	3	20	1						800		
	RECEPTACLES	5	20	1							700	
	RECEPTACLES	7	20	1					900			
	RECEPTACLES	9	20	1						800		
	RECEPTACLES	11	20	1							700	
	RECEPTACLES	13	20	1					700			
	RECEPTACLES	15	20	1						900		
	RECEPTACLES	17	20	1							600	
	RECEPTACLES	19	20	1					900			
	RECEPTACLES	21	20	1						700		
	RECEPTACLES	23	20	1							900	
	SPARE	25	20	1								
	COMPUTER RECEPTACLES	27	20	1						1900		
	COMPUTER RECEPTACLES	29	20	1							1900	
	COMPUTER RECEPTACLES	31	20	1					1900			
	COMPUTER RECEPTACLES	33	20	1						1900		
	COMPUTER RECEPTACLES	35	20	1							1900	
	COMPUTER RECEPTACLES	37	20	1					1900			
	COMPUTER RECEPTACLES	39	20	1						1900		
	COMPUTER RECEPTACLES	41	20	1							1900	
	SUB TOTAL VOLT/AMPS:								7100	8900	8600	
□	RECEPTACLES	2	20	1		1			180			
	RECEPTACLES	4	20	1		2				720		
	RECEPTACLES	6	20	1		4					720	
	RECEPTACLES	8	20	1		6			1080			
*	RECEPTACLES	10	20	1						1600		
	RECEPTACLES	12	20	1							800	
	RECEPTACLES	14	20	1					600			
	RECEPTACLES	16	20	1						700		
	RECEPTACLES	18	20	1							900	
	RECEPTACLES	20	20	1					800			
	RECEPTACLES	22	20	1						600		
	RECEPTACLES	24	20	1							700	
	RECEPTACLES	26	20	1					900			
	RECEPTACLES	28	20	1						700		
	RECEPTACLES	30	20	1							700	
	RECEPTACLES	32	20	1					900			
	RECEPTACLES	34	20	1						800		
	COMPUTER RECEPTACLES	36	20	1							1900	
	COMPUTER RECEPTACLES	38	20	1					1900			
	SPARE	40	20	1								
	SPARE	42	20	1								
	SUB TOTAL VOLT/AMPS:								6360	5120	5720	
	TOTAL VOLT/AMPS:								13460	14020	14320	
	TOTAL LCL/PHASE:								0	0	0	
	TOTAL VOLT/AMPS:								13460	14020	14320	
	TOTAL AMPS/PHASE:								112	117	119	

CONNECTED: 41800 VA
25% OF MTR: 0 VA
25% OF LCL: 0 VA
CALCULATED: 41800 VA = 116.0 AVERAGE AMPS

* = INDICATES EXISTING LOAD TO REMAIN. (LOADS FROM AS-BUILT DRAWINGS)
□ = INDICATES NEW LOAD ON EXISTING CIRCUIT BREAKER.

(E)PANEL "L4" MAIN BREAKER: M.L.O. SCA: 10 KAIC
VOLTAGE: 120/208V-4-WIRE BUS SIZE MOUNT: SURFACE
LOCATION: ELEC RM COPPER: 250A. ENTRY: BOTTOM

	DESCRIPTION	CKT	BKR	P	LTS	REC	MSC	MTR	A-VA	B-VA	C-VA	AMPS
*	IAP	1	20	1					100			
	ICP	3	20	1						100		
	SUMP PUMP CONTROL PNL	5	20	1							100	
	SPARE	7	20	1								
	SPARE	9	20	1								
	SPARE	11	20	1								
	SPARE	13	20	1								
	SPARE	15	20	1								
	SPARE	17	20	1								
	SPARE	19	20	1								
	SPARE	21	20	1								
	SPARE	23	20	1								
	SPARE	25	20	1								
	SPARE	27	20	1								
	SPARE	29	20	1								
	SPARE	31	20	1								
	SPARE	33	20	1								
	SPACE	35	-	-								
	SPACE	37	-	-								
	SPACE	39	-	-								
	SPACE	41	-	-								
	SUB TOTAL VOLT/AMPS:								100	100	100	
*	RECEPTACLES	2	20	1					700			
□	RECEPTACLES	4	20	1		2				360		
	RECEPTACLES	6	20	1		3					540	
	RECEPTACLES	8	20	1		3			540			
*	RECEPTACLES	10	20	1								
	RECEPTACLES	12	20	1								
	RECEPTACLES	14	20	1								
	RECEPTACLES	16	20	1								
	HOT WATER HEATER	18	20	2								
	W/CKT. 18	20	-	-								
	DISPOSAL	22	20	1								
	SPACE	24	-	-								
	SPACE	26	-	-								
	SPACE	28	-	-								
	SPACE	30	-	-								
	SPACE	32	-	-								
	SPACE	34	-	-								
	SPACE	36	-	-								
	SPACE	38	-	-								
	SPACE	40	-	-								
	SPACE	42	-	-								
	SUB TOTAL VOLT/AMPS:								1240	360	540	
	TOTAL VOLT/AMPS:								1340	460	640	
	TOTAL LCL/PHASE:								0	0	0	
	TOTAL VOLT/AMPS:								1340	460	640	
	TOTAL AMPS/PHASE:								11	4	5	

CONNECTED: 2440 VA
25% OF MTR: 0 VA
25% OF LCL: 0 VA
CALCULATED: 2440 VA = 6.8 AVERAGE AMPS

* = INDICATES EXISTING LOAD TO REMAIN. (LOADS FROM AS-BUILT DRAWINGS)
□ = INDICATES NEW LOAD ON EXISTING CIRCUIT BREAKER.

(E)PANEL "H2" MAIN BREAKER: 175A SCA: 14 KAIC
VOLTAGE: 480/277V-3-WIRE BUS SIZE MOUNT: SURFACE
LOCATION: ELEC RM COPPER: 175A ENTRY: BOTTOM

	DESCRIPTION	CKT	BKR	P	LTS	REC	MSC	MTR	A-VA	B-VA	C-VA	AMPS
*	AC-16,17	1	40	3					6733			
	W/CKT. 1	3	-	-						6733		
	W/CKT. 1	5	-	-							6734	
	AC-18,19	7	40	3					6733			
	W/CKT. 7	9	-	-						6733		
	W/CKT. 7	11	-	-							6734	
	SPARE	13	20	1								
	SPARE	15	20	1								
	SPARE	17	20	1								
	SPARE	19	20	1								
	SPARE	21	20	1								
	SPARE	23	20	1								
	SPACE	25	-	-								
	SPACE	27	-	-								
	SPACE	29	-	-								
	SPACE	31	-	-								
	SPACE	33	-	-								
	SPACE	35	-	-								
	SUMP PUMPS-1,2	37	20	3								
	W/CKT. 37	39	-	-								
	W/CKT. 37	41	-	-							7600	
	SUB TOTAL VOLT/AMPS:								13466	13466	21068	
	LIGHTING	2	20	1					2200			
□	LIGHTING - FLEX CLASSROOM E115	4	20	1						748		
□	LIGHTING - TK CLASSROOM E114	6	20	1							748	
*	LIGHTING	8	20	1					2200			
	LIGHTING	10	20	1						2200		
	LIGHTING	12	20	1							2400	
	LIGHTING	14	20	1					2200			
	LIGHTING	16	20	1						2200		
	LIGHTING	18	20	1							2200	
	LIGHTING	20	20	1					2200			
	LIGHTING	22	20	1						1400		
	LIGHTING	24	20	1							2100	
	LIGHTING	26	20	1					2200			
	LIGHTING	28	20	1						2200		
	LIGHTING	30	20	1							2200	
	LIGHTING	32	20	1					2200			
	LIGHTING	34	20	1						2200		
	LIGHTING	36	20	1							2500	
	LIGHTING	38	20	1					2200			
	LIGHTING	40	20	1						1900		
	LIGHTING	42	20	1							1800	
	SUB TOTAL VOLT/AMPS:								15400	12848	13948	
	TOTAL VOLT/AMPS:								28866	26314	35016	
	TOTAL LCL/PHASE:								3850	3212	3487	
	TOTAL VOLT/AMPS:								32716	29526	38503	
	TOTAL AMPS/PHASE:								118	107	139	

CONNECTED: 90196 VA
25% OF MTR: 0 VA
25% OF LCL: 2637 VA
CALCULATED: 92833.25 VA = 111.7 AVERAGE AMPS

* = INDICATES EXISTING LOAD TO REMAIN. (LOADS FROM AS-BUILT DRAWINGS)
□ = INDICATES NEW LOAD ON EXISTING CIRCUIT BREAKER.

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER CATALOG#	LAMP QTY. & TYPE	FIXTURE WATTAGE	VOLTS	WEIGHT	REMARKS
A	MARK ARCHITECTURAL LIGHTING #WHSPR-2X4-90CRI-40K-4000LM-MIN1-MVOLT-SWC #E10WLCP (EM. BATTERY PACK) OR APPROVED EQUAL	34W. LED 4,076 LUMENS 118 LM/W 4000K	34	MVOLT	44 LBS	RECESSED MOUNTED 2'X4' ARCHITECTURAL LED FIXTURE. FIXTURE SHALL BE PROVIDED WITH 4000 KELVIN COLOR TEMPERATURE, 4,000 LUMEN PACKAGE, MULTI VOLTAGE, INTEGRAL 0-10V. LED DIMMING DRIVER. WHERE SHADING IS INDICATED ON PLANS PROVIDE INTEGRAL 90 MINUTE EMERGENCY BATTERY PACK. PROVIDE ALL REQUIRED ACCESSORIES FOR CEILING TYPE LIGHT FIXTURE TO BE INSTALLED IN.
B	GOTHAM LIGHTING #EVO8-40/20- *MD-LSS-277-EZ1 #E10WCP (EM. BATTERY PACK) OR APPROVED EQUAL	32W. LED 2,287 LUMENS 73 LM/W 4000K	32	MVOLT	18 LBS	8 INCH RECESSED MOUNTED LED DOWNLIGHT. FIXTURE SHALL BE PROVIDED WITH 4000 KELVIN COLOR TEMPERTURE, 2,000 LUMEN PACKAGE, UNIVERSAL VOLTAGE, INTEGRAL 0-10V. LED DIMMING DRIVER. WHERE SHADING IS INDICATED ON PLAN PROVIDE INTEGRAL 90 MINUTE EMERGENCY BATTERY BACK-UP. PROVIDE ALL REQUIRED ACCESSORIES FOR CEILING TYPE LIGHT FIXTURE TO BE INSTALLED IN.
C	MARK ARCHITECTURAL LIGHTING #WHSPR-2X2-90CRI-40K-4000LM-MIN1-MVOLT-SWC #E10WLCP (EM. BATTERY PACK) OR APPROVED EQUAL	38W. LED 4,222 LUMENS 109 LM/W 4000K	36	MVOLT	32 LBS	RECESSED MOUNTED 2'X2' ARCHITECTURAL LED FIXTURE. FIXTURE SHALL BE PROVIDED WITH 4000 KELVIN COLOR TEMPERATURE, 4,000 LUMEN PACKAGE, MULTI VOLTAGE, INTEGRAL 0-10V. LED DIMMING DRIVER. WHERE SHADING IS INDICATED ON PLANS PROVIDE INTEGRAL 90 MINUTE EMERGENCY BATTERY PACK. PROVIDE ALL REQUIRED ACCESSORIES FOR CEILING TYPE LIGHT FIXTURE TO BE INSTALLED IN.
D	HUBBELL OUTDOOR LIGHTING #LNC2-12L-4K-070-2-U- *-E OR APPROVED EQUAL	29W. LED 2,763 LUMENS 4000K	29	MVOLT	9.6 LBS	EXTERIOR WALL MOUNTED LED FIXTURE WITH TYPE 2 DISTRIBUTION, 4000 KELVIN COLOR TEMPERATURE, 120-277 VOLTAGE, AND INTEGRAL 90 MINUTE EMERGENCY BATTERY BACK-UP WHERE SHADING INDICATED ON PLAN. * = FINISH AS SELECTED BY ARCHITECT.
E	MARK ARCHITECTURAL LIGHTING #SL2L-LOP-*-RLP-80CRI-40K-800LMF-MIN1-277 E10WLCP (EM. BATTERY PACK) OR APPROVED EQUAL	8W/FT LED 534 LUMENS/FTLED 4000K	8 W/FT	277	32 LBS	SLOT 2 LED RECESSED LINEAR LED LIGHT FIXTURE. PROVIDE FIXTURE WITH INTEGRAL 0-10V. LED DIMMING DRIVER, 4,000 LUMEN PACKAGE, AND 4000K KELVIN COLOR TEMPERATURE. WHERE SHADING IS INDICATED ON PLAN PROVIDE INTEGRAL 90 MINUTE EMERGENCY BATTERY PACK.
F	LITHONIA LIGHTING #2BLTX4-40L-SDSM-EZ1-LP840-E10WLCP OR APPROVED EQUAL	4,032 LUMEN LED 118 LM/W 4000K	32	MVOLT	32 LBS	SURFACE MOUNTED 2'x4' LED LIGHT FIXTURE. PROVIDE FIXTURE WITH ACRYLIC PRISMATIC REFRACTOR, INTEGRAL 0-10V. LED DIMMING DRIVER, 4,000 LUMEN PACKAGE, AND 4000K KELVIN COLOR TEMPERATURE. WHERE SHADING IS INDICATED ON PLAN PROVIDE INTEGRAL 90 MINUTE EMERGENCY BATTERY PACK.
G	KENALL LIGHTING #MLHA8-48-F-MB-PP-45L40K-DCC-DV-EL OR APPROVED EQUAL	5,072 LUMEN LED 104 LM/W 4000K	49	MVOLT	32 LBS	SURFACE MOUNTED 4' LED LIGHT FIXTURE. PROVIDE FIXTURE WITH INTEGRAL 0-10V. LED DIMMING DRIVER, AND 4000K KELVIN COLOR TEMPERATURE. WHERE SHADING IS INDICATED ON PLAN PROVIDE INTEGRAL 90 MINUTE EMERGENCY BATTERY PACK.
X	DUAL LITE #EVE-U-R-W-E-1 OR APPROVED EQUAL		3	MVOLT	2.5 LBS	LED EXIT SIGN. SIGN MUST BE INTERNALLY ILLUMINATED, AND UNIVERSAL MOUNTING FOR CEILING AND WALL INSTALLATION.

SITE LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER CATALOG#	LAMP QTY. & TYPE	FIXTURE WATTAGE	VOLTS	B.U.G. RATING	REMARKS
SA	U.S. ARCHITECTURAL #RZR-PLED-III-W-80LED-525MA-NW-277-*-MS-F211 OR APPROVED EQUAL	131W. LED 16,736 LUMEN LED 128 LM/W 4000K	131	277	B=3 U=0 G=3	AREA POLE MOUNTED LED FIXTURE. FIXTURE SHALL BE PROVIDED WITH TYPE III WIDE OPTICS, 80 LED MODULE, 525 MILLIAMP CURRENT DRIVER, 4000 KELVIN COLOR TEMPERATURE, 277 VOLTAGE, AND STEP DIM MOTION SENSOR. PROVIDE A SINGLE MS-FC10 REMOTE FOR SETTING UP ALL THE MS-F211. * = FINISH AS SELECTED BY ARCHITECT.
SC	U.S. ARCHITECTURAL #RZR-PLED-IV-W-80LED-1050MA-NW-120-*-MS-F211 OR APPROVED EQUAL	257W. LED 26,255 LUMEN LED 103 LM/W 4000K	257	120	B=4 U=0 G=4	AREA POLE MOUNTED LED FIXTURE. FIXTURE SHALL BE PROVIDED WITH TYPE IV WIDE OPTICS, 80 LED MODULE, 1050 MILLIAMP CURRENT DRIVER, 4000 KELVIN COLOR TEMPERATURE, 120VOLTAGE, AND STEP DIM MOTION SENSOR. PROVIDE A SINGLE MS-FC10 REMOTE FOR SETTING UP ALL THE MS-F211. * = FINISH AS SELECTED BY ARCHITECT.
SC1	U.S. ARCHITECTURAL #RZR-PLED-IV-W-80LED-1050MA-NW-120-*-MS-F211 OR APPROVED EQUAL	257W. LED 26,255 LUMEN LED 103 LM/W 4000K	257	120	B=4 U=0 G=4	TWIN HEAD POLE MOUNTED LED FIXTURE. FIXTURE SHALL BE PROVIDED WITH TYPE IV WIDE OPTICS, 80 LED MODULE, 1050 MILLIAMP CURRENT DRIVER, 4000 KELVIN COLOR TEMPERATURE, 120 VOLTAGE, AND STEP DIM MOTION SENSOR. PROVIDE A SINGLE MS-FC10 REMOTE FOR SETTING UP ALL THE MS-F211. * = FINISH AS SELECTED BY ARCHITECT.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119816 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 02/25/2022

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PROJECT
LYDIKSEN ELEMENTARY SCHOOL MODERNIZATION

PLEASANTON UNIFIED SCHOOL DISTRICT

CONSULTANT
optimum energy design
Consulting Engineers
5515 Doyle Street
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Emeryville, CA 94608
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STAMP
REGISTERED PROFESSIONAL ENGINEER
ROLANDO E. SOTELO
No. E17229
6/30/22
ELECTRICAL
STATE OF CALIFORNIA

STATE
DSA FILE NUMBER 1-32
APPL # 01-119816

REVISIONS

MILESTONES

SD	06/28/2021
DD	08/23/2021
50% CD	09/20/2021
90% CD	10/14/2021
DSA SUB	10/21/2021

SHEET
ELECTRICAL PANEL SCHEDULES AND LIGHT FIXTURE SCHEDULE

DATE 10/21/2021
JOB # 2020029.02
SHEET # E0.2

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
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:	Lydiksen Elementary School	**Report Page:**	**(Page 1 of 9)**
Project Address:	7700 Highland Oaks Dr	**Date Prepared:**	10/28/2021

A. GENERAL INFORMATION

01	Project Location (city)	Pleasanton	04	Total Conditioned Floor Area (ft²)	7,895
02	Climate Zone	12	05	Total Unconditioned Floor Area (ft²)	0
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) See Table I

B. PROJECT SCOPE

This table includes 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.

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				
☐ New Lighting System - Parking Garage				
☑ Altered Lighting System	Area Category Method	7895	Area Category Method	0
Total Area of Work (ft²)	7895		0	

Registration Number:
Registration Date/Time:
Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Report Version: 2019.1.003
Schema Version: rev 20200601
Report Generated: 2021-10-28 15:30:05

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Lydiksen Elementary School	**Report Page:**	**(Page 2 of 9)**
Project Address:	7700 Highland Oaks Dr	**Date Prepared:**	10/28/2021

C. COMPLIANCE RESULTS

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)2(+)	Tailored §140.6(c)3 (+)	=	**Total Allowed** (Watts)	Total Designed (Watts)	Adjustments PAF Lighting 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		5,278.9	0		=	5,279	≥ 5,237	0	=	5237	COMPLIES
Unconditioned					=		≥		=		
Controls Compliance (See Table H for Details)											COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)											

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes 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 is Wattage determined	Total Number of Luminaires	Excluded per §140.6(a)3	Design Watts	Field Inspector	
									Pass	Fail
B	B	No	No	32	Mfr. Spec	20	No	640	☐	☐
C	C	No	No	36	Mfr. Spec	20	No	720	☐	☐

Registration Number:
Registration Date/Time:
Registration Provider: Energysoft
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Report Generated: 2021-10-28 15:30:05

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
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F. INDOOR LIGHTING FIXTURE SCHEDULE

E	E	No	No	24	Mfr. Spec	35	No	840	☐	☐
F	F	No	No	32	Mfr. Spec	75	No	2,400	☐	☐
G	G	No	No	49	Mfr. Spec	13	No	637	☐	☐
							Total Designed Watts: CONDITIONED SPACES	5,237		

[1]*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)4ii 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 to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

*This table includes lighting controls for conditioned and unconditioned spaces. When a control having a * is shown, the notes section of this table provides more detail on how compliance is achieved. 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	
		Field Inspector	
Mandatory Demand Response §110.12(c)	Shut-off controls §130.1(c)	Pass	Fail
Not Required <= 10,000 SF	See Area/Space Level Controls	☐	☐

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H. INDOOR LIGHTING CONTROLS (Not including PAFs)

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/Sky lit Daylighting §140.6(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)1	Field Inspector	
								Pass	Fail
Classrooms	Classroom, Lecture, or Training Vocational Area	Manual ON/OFF	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Storage	All Other Space Types	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐
Restrooms	Restrooms	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐
PE Office	Office greater than 250 square feet	Manual ON/OFF	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Electrical Room	Electrical Mechancial Telephone Room	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐
Hallway	Corridor Area	Manual ON/OFF	Dimmer	Occupancy Sensor	Included	N/A	No	☐	☐
Work Room/Waiting Area	Lounge Breakroom or Waiting Area	Manual ON/OFF	Dimmer	Occupancy Sensor	Included	N/A	No	☐	☐
Deaf/Hearing C21	Classroom, Lecture, or Training Vocational Area	Manual ON/OFF	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Unassigned C18	Office 250 square feet or less	Manual ON/OFF	Dimmer	Occupancy Sensor	Included	N/A	No	☐	☐
Phychology C16	Office 250 square feet or less	Manual ON/OFF	Dimmer	Occupancy Sensor	Included	N/A	No	☐	☐
Occu. Therapy C19	Office 250 square feet or less	Manual ON/OFF	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐

Registration Number:
Registration Date/Time:
Registration Provider: Energysoft
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H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Counselor C17	Office 250 square feet or less	Manual ON/OFF	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Recourse C23	Classroom, Lecture, or Training Vocational Area	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐
Intervention C6	Classroom, Lecture, or Training Vocational Area	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐
Speech 2 C12	Classroom, Lecture, or Training Vocational Area	Manual ON/OFF	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Speech 1 C11	Classroom, Lecture, or Training Vocational Area	Manual ON/OFF	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Custodian C14	Electrical Mechancial Telephone Room	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐
Elect. C9	Electrical Mechancial Telephone Room	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐

*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

Each area complying using the Complete Building or Area Category Methods per §140.6(b) are included in this table. Column 06 indicates 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 Allowance / Adjustment	
					Area Category	PAF
Classroom C4	Classroom, Lecture, or Training Vocational Area	0.7	860	602	No	No
Classroom C3	Classroom, Lecture, or Training Vocational Area	0.7	860	602	No	No
Classroom C2	Classroom, Lecture, or Training Vocational Area	0.7	860	602	No	No
Classroom C1	Classroom, Lecture, or Training Vocational Area	0.7	860	602	No	No
Deaf/Hearing C21	Classroom, Lecture, or Training Vocational Area	0.7	170	119	No	No

Registration Number:
Registration Date/Time:
Registration Provider: Energysoft
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I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Intervention C6	Classroom, Lecture, or Training Vocational Area	0.7	540	378	No	No
Recource C23	Classroom, Lecture, or Training Vocational Area	0.7	540	378	No	No
PE Office C22	Office greater than 250 square feet	0.65	273	177.5	No	No
PE Storage C20	All Other Space Types	0.4	308	123.2	No	No
Unassigned C18	Office 250 square feet or less	0.7	167	116.9	No	No
Phychology C16	Office 250 square feet or less	0.7	170	119	No	No
Occu. Therapy C19	Office 250 square feet or less	0.7	182	127.4	No	No
Counselor C17	Office 250 square feet or less	0.7	185	129.5	No	No
Work Room/Waiting Area C8	Lounge Breakroom or Waiting Area	0.65	610	396.5	No	No
Speech 2 C12	Classroom, Lecture, or Training Vocational Area	0.7	188	131.6	No	No
Speech 1 C11	Classroom, Lecture, or Training Vocational Area	0.7	188	131.6	No	No
Hallway C25	Corridor Area	0.6	270	162	No	No
Storage C24	Electrical Mechancial Telephone Room	0.4	35	14	No	No
Custodial C14	Electrical Mechancial Telephone Room	0.4	67	26.8	No	No
Girls Restroom C15	Restrooms	0.65	155	100.8	No	No
Staff Restroom C13	Restrooms	0.65	55	35.8	No	No
Boys Restroom C10	Restrooms	0.65	173	112.4	No	No
Unisex Restroom C5	Restrooms	0.65	77	50.1	No	No
Elect. C9	Electrical Mechancial Telephone Room	0.4	65	26	No	No
Storage C7	Electrical Mechancial Telephone Room	0.4	37	14.8	No	No
			TOTALS:	7,895	5,278.9	See Tables J, or P for detail

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

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Registration Date/Time:
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L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

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T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included 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/

Yes	No	Form/Title	Field Inspector	
			Pass	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

Selections have been made based on information provided in this document. If any selection have been changed by the permit applicant, an explanation should be included 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	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)	☐	☐

Registration Number:
Registration Date/Time:
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CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Lydiksen Elementary School	**Report Page:**	**(Page 9 of 9)**
Project Address:	7700 Highland Oaks Dr	**Date Prepared:**	10/28/2021

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Swathini Mathewaran	Documentation Author Signature: M.Swathini
Company: Optimum Energy Design	Signature Date: 2021-10-28
Address: 5200 E. La Palma Ave.	CEA / HERS Certification Identification (if applicable):
City/State/Zip: Anaheim, CA 92807	Phone:

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: Rolando Sotelo	Responsible Designer Signature: Rolando Sotelo
Company: Optimum Energy Design	Date Signed: 2021-10-28
Address: 5200 E. La Palma Ave.,	License: E17229
City/State/Zip: Anaheim CA 92807	Phone: 714-693-2277

Registration Number:
Registration Date/Time:
Registration Provider: Energysoft
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Schema Version: rev 20200601
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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119816 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 02/25/2022

aedis architects
www.aedisarchitects.com
387 S. 1st Street, Suite 300
San Jose, CA 95113
tel: (408)-300-5160
fax: (408)-300-5121

PROJECT

LYDIKSEN ELEMENTARY SCHOOL MODERNIZATION

PLEASANTON UNIFIED SCHOOL DISTRICT

CONSULTANT

optimum energy design
Consulting Engineers
5515 Doyle Street
Suite 4
Emeryville, CA 94608
Telephone: (510) 837-9182

STAMP

REGISTERED PROFESSIONAL ENGINEER
ROLANDO E. SOTELO
No. E17229
6/30/22
ELECTRICAL
STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 1-32
APPL # 01-119816

REVISIONS

MILESTONES

SD	06/28/2021
DD	08/23/2021
50% CD	09/20/2021
90% CD	10/14/2021
DSA SUB	10/21/2021

SHEET

ELECTRICAL - BUILDING C - TITLE 24 INDOOR LIGHTING

DATE 10/21/2021

JOB # 2020029.02

SHEET #

E-0.3

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Lydiksen Elementary School	Report Page:	(Page 1 of 7)
Project Address:	7700 Highland Oaks Dr	Date Prepared:	2/7/2022

A. GENERAL INFORMATION

01	Project Location (city)	Pleasanton		
02	Climate Zone	12	04	Total Illuminated Hardscape Area (ft²) 62554
03	Outdoor Lighting Zone per Title 24 Part 1 §10.114 or as designated by Authority Having Jurisdiction (AHJ):			
☐	LZ-0: Very Low - Undeveloped Parkland	☐ LZ-2: Moderate - Rural Areas	☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval	
☐	LZ-1: Low - Developed Parkland	☒ LZ-3: Moderately High - Urban Areas		

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 or §141.0(b)2i for alterations.

My Project Consists of:

01	02	
☐ New Lighting System	Must Comply with Allowances from §140.7	
☒ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)?	● Yes ○ No
03	04	05
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method
☐ < 10% ☐ >= 10% and < 50% ☐ >= 50%		

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.

[1] *FOOTNOTES: % of Existing Luminaires Being Altered = [Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application] x 100.*

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C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)2I.											Compliance Results		
01		02		03		04		05	06		07	08	09
General Hardscape Allowance §140.7(d)1 (See Table I)	+	Per Application §140.7(d)2 (See Table J)	+	Sales Frontage §140.7(d)2 (See Table K)	+	Ornamental §140.7(d)2 (See Table L)	+	Per Specific Area §140.7(d)2 (See Table M)	OR	Existing Power Allowance §141.0(b)2L (See Table N)	= Total Allowed (Watts)	≥ Total Actual (Watts)	07 must be >= 08
1,913.85	+	---	+	---	+	---	+	---	OR	---	= 1,913.85	≥ 1,786	COMPLIES
Cutoff Compliance (See Table G for Details)													N/A
Controls Compliance (See Table H 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.

E. ADDITIONAL REMARKS

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

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F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with §140.7 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included).

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1,2]	How is Wattage determined	Total number luminaires[2]	Luminaire Status[3]	Excluded per §140.7(a)	Design Watts	Cutoff Req. > 6,200 initial lumen output §130.2(b)[4]	Field Inspector Pass	Fail
B	B	☐ Linear	32	Mfr. Spec	1	New	☐	32	NA: < 6200 lumens	☐	☐
D	D	☐ Linear	29	Mfr. Spec	16	New	☐	464	NA: < 6200 lumens	☐	☐
SA	SA	☐ Linear	131	Mfr. Spec	2	New	☐	262	NA: < 6200 lumens	☐	☐
SB1	SB1	☐ Linear	257	Mfr. Spec	4	New	☐	1,028	NA: < 6200 lumens	☐	☐
							Total Design Watts:	1786			

** NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.*
EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b)

[1] *FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c)*
[2] *For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.*
[3] *Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.*
[4] *Compliance with mandatory cutoff requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by §130.2(b)*

G. CUTOFF REQUIREMENTS (BUG)

This section does not apply to this project.

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H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
*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.*

Mandatory Controls

01	02	03	04	05	
Area Description	Shut-Off §130.2(c)1	Auto-Schedule §130.2(c)2	Motion Sensor §130.2(c)3	Field Inspector Pass	Fail
Outdoor Lights	Photocontrol	Yes	Yes	☐	☐

** NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.*
EX: Not permitted by health & safety to be turned off; EXCEPTION 1 to §130.2(c)

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Lydiksen Elementary School	Report Page:	(Page 5 of 7)
Project Address:	7700 Highland Oaks Dr	Date Prepared:	2/7/2022

I. LIGHTING POWER ALLOWANCE (per §140.7)

This table includes areas using allowance calculations per §140.7. General Hardscape Allowance is per Table 140.7-A while "Use it or lose it" Allowances are per Table 140.7-B. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.

	01					
	☒ General Hardscape Allowance Table I (below)	"Use it or lose it" Allowance (select all that apply) (select all that apply) ☐ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☐ Per Specific Area Table M
Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (LZ 0, 1 & 4)					
This section does not apply to this project.					
Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (LZ 2 & 3)					

02	03	04	05	06	07	08	09	10
Area Description	Surface Type	Area Wattage Allowance (AWA) Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)	Area Wattage Allowance (AWA) Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	Total General AWA + LWA (Watts)
Outdoor Building Lights	Asphalt	62554	0.03	1563.85	0	0.4	0	1563.85
							Initial Wattage Allowance for Entire Site (Watts):	350
							Total General Hardscape Allowance (Watts):	1913.85

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Lydiksen Elementary School	Report Page:	(Page 6 of 7)
Project Address:	7700 Highland Oaks Dr	Date Prepared:	2/7/2022

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included 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/

Yes	No	Form/Title	Field Inspector Pass	Fail
●	○	NRCI-LTO-01-E - Must be submitted for all buildings	☐	☐
●	○	NRCI-LTO-02-E- Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and 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	Fail
●	○	NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.	☐	☐

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Lydiksen Elementary School	Report Page:	(Page 7 of 7)
Project Address:	7700 Highland Oaks Dr	Date Prepared:	2/7/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Swathini Matheswaran	Documentation Author Signature: M.Swathini
Company: Optimum Energy Design	Signature Date: 2022-02-07
Address: 5200 E. La Palma Ave.	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Anaheim, CA 92807	Phone:

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: Rolando Sotelo	Responsible Designer Signature: Rolando Sotelo
Company: Optimum Energy Design	Date Signed: 2022-02-07
Address: 5200 E. La Palma Ave.,	License: E17229
City/State/Zip: Anaheim CA 92807	Phone: 714-693-2277

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50% CD	09/20/2021
90% CD	10/14/2021
DSA SUB	10/21/2021

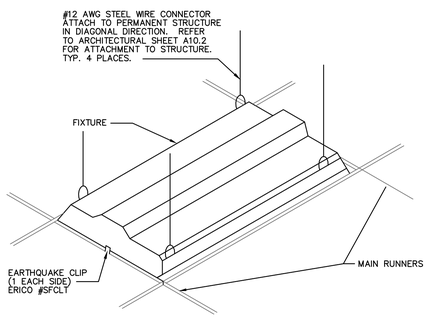
SHEET

ELECTRICAL - BUILDING C - TITLE 24 OUTDOOR LIGHTING

DATE 10/21/2021

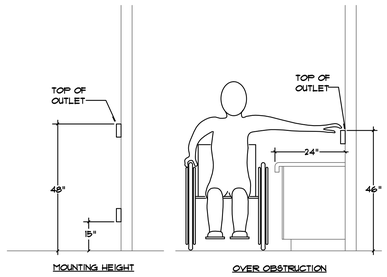
JOB # 2020029.02

SHEET # E-0.4



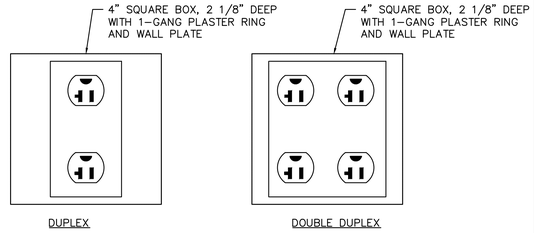
LIGHT FIXT. - T-BAR CEILING

SCALE: NONE | 1



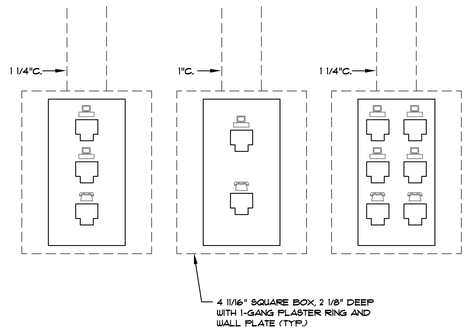
DEVICE MOUNTING HEIGHTS

SCALE: NONE | 2



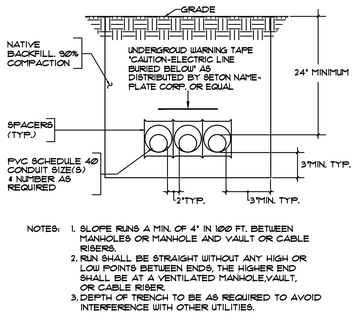
RECEPTACLE - FLUSH MOUNTED

SCALE: NONE | 3



TEL/DATA OUTLET

SCALE: NONE | 4



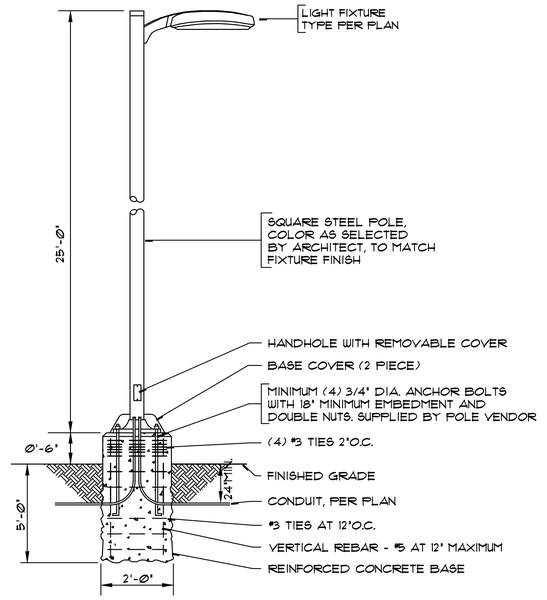
NOTES:
1. SLOPE RUNS A MIN. OF 4" IN 100 FT. BETWEEN MANHOLES OR MANHOLE AND VAULT OR CABLE RISERS.
2. RUN SHALL BE STRAIGHT WITHOUT ANY HIGH OR LOW POINTS BETWEEN ENDS, THE HIGHER END SHALL BE AT A VENTILATED MANHOLE,VAULT, OR CABLE RISER.
3. DEPTH OF TRENCH TO BE AS REQUIRED TO AVOID INTERFERENCE WITH OTHER UTILITIES.

UNDERGOUND DUCT-BANK

SCALE: NONE | 5

SCALE: NONE | 6

SCALE: NONE | 7



AREA LIGHT FIXTURE

SCALE: NONE | 12

NOT USED

SCALE: NONE | 9

NOT USED

SCALE: NONE | 10

NOT USED

SCALE: NONE | 11

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REVISIONS

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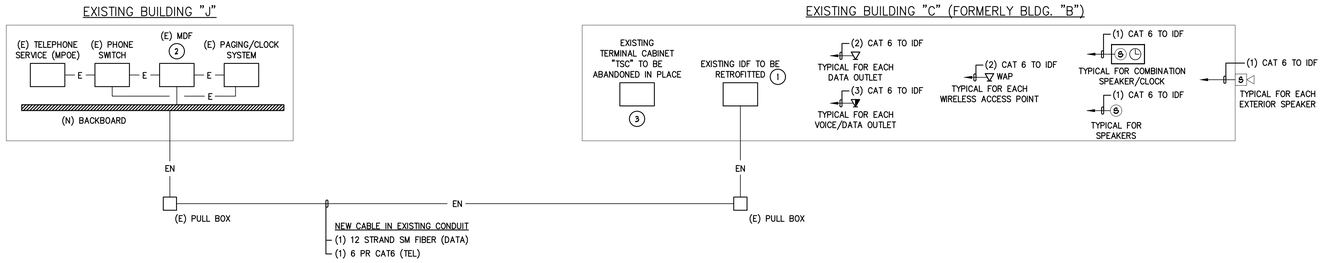
90% CD	10/14/2021
DSA SUB	10/21/2021

SHEET
ELECTRICAL - DETAILS

DATE 10/21/2021
JOB # 2020029.02
SHEET # E-0.5



GENERAL NOTES

1. ALL LOW VOLTAGE SYSTEM CIRCUITS SERVING THE PROJECT AREA, WHETHER IDENTIFIED ON PLAN OR NOT, SHALL BE TRACED AND IDENTIFIED PRIOR TO THE START OF DEMOLITION WORK. CIRCUITS AFFECTED BY THE NEW WORK, THAT SERVE AREAS OF THE SITE/BUILDINGS, THAT ARE NOT PART OF THE SCOPE OF WORK SHALL BE MAINTAINED IN OPERATION DURING THE CONSTRUCTION PHASE. INTERRUPTION OF SERVICE WILL NOT BE ALLOWED.
2. PROGRAMMING OF THE LOW VOLTAGE SYSTEMS SHALL BE DONE IN COMPLIANCE WITH THE SCHOOL DISTRICT TECHNOLOGY DEPARTMENT REQUIREMENTS.
3. REFER TO SITE PLANS AND FLOOR PLANS FOR ADDITIONAL REQUIREMENTS.
4. TAP THE CLASSROOM AND INDOOR COMMON AREA SPEAKERS AT 1/2W. TAP EXTERIOR SPEAKERS AT 4W.
5. REFER TO SHEET E-01, GENERAL NOTES, FOR ADDITIONAL REQUIREMENTS.

KEY NOTES

1. EXISTING IDF TO BE RETROFFITED WITH NEW RACK MOUNTED EQUIPMENT (i.e. PATCH PANELS, MODULES, CONNECTORS, ETC.) THAT ARE FULLY COMPATIBLE WITH THE NEW SINGLE MODE NETWORK FIBER CABLING SYSTEM. EXISTING RACK MOUNTED EQUIPMENT THAT IS NO LONGER IN USE SHALL BE DISCONNECTED, REMOVED AND TURNED OVER TO THE SCHOOL DISTRICT IN "AS-FOUND" CONDITION.
2. PROVIDE NEW RACK MOUNTED SINGLE MODE FIBER EQUIPMENT (i.e. PATCH PANELS, MODULES, CONNECTORS, ETC.) AS REQUIRED TO FULLY INTEGRATE THE BUILDING "C" DATA, PHONE AND SPEAKER/CLOCK SYSTEM OUTLETS.
3. DISCONNECT AND REMOVE ALL EXISTING WIRE/CABLE AND TERMINALS IN EXISTING TERMINAL CABINET "TSC". WIRE/CABLE TO BE REMOVED BACK TO THE SERVING PANEL. IDENTIFY THE TERMINAL CABINET AS "SPARE", TAG ALL EMPTY CONDUIT WITH ITS DESTINATION/POINT OF ORIGIN (i.e. "TO UNDERGROUND PULL BOX AT WEST SIDE OF BUILDING").

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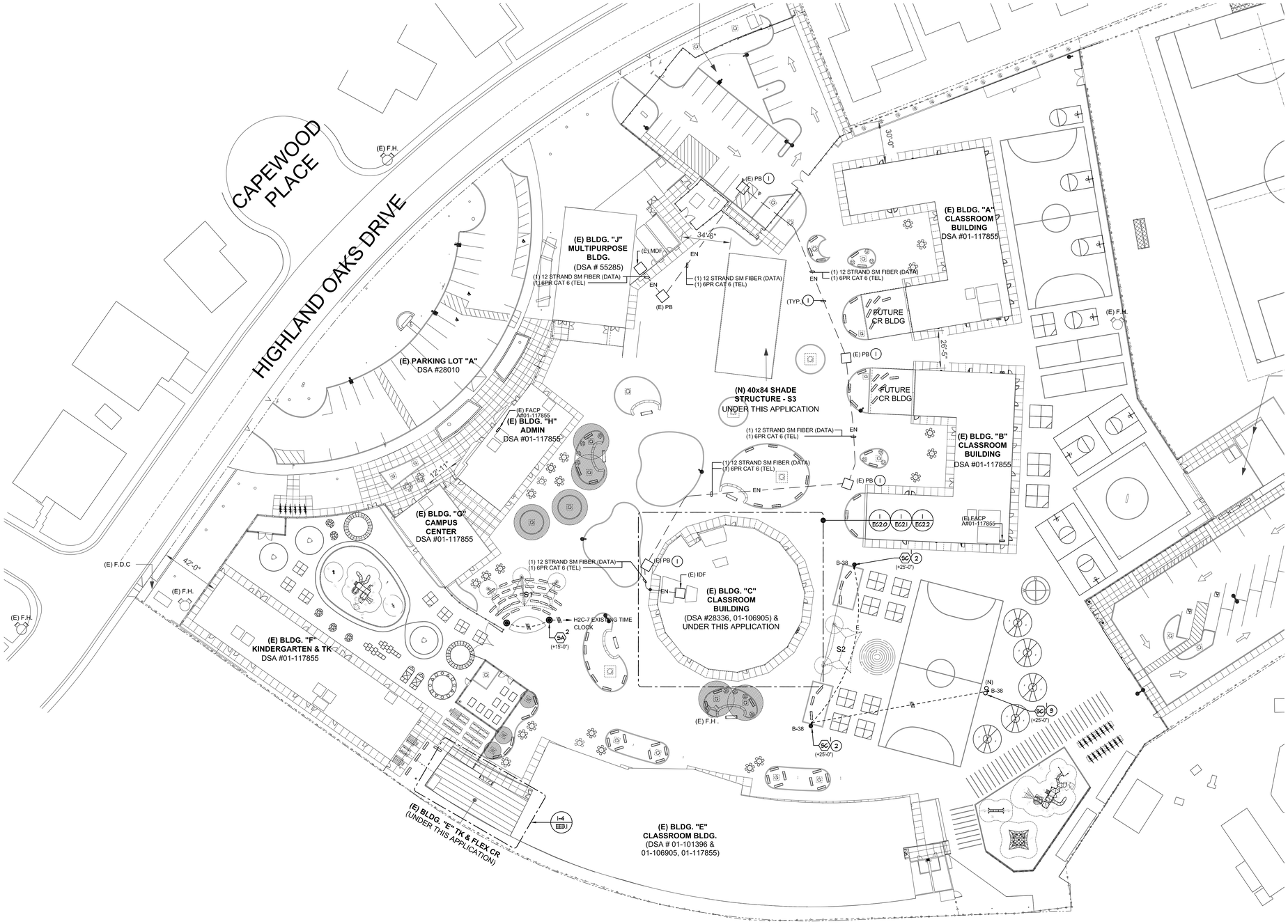
SHEET
COMMMUNICATIONS BLOCK DIAGRAM INCREMENT #1

DATE 10/21/2021
JOB # 2020029.02
SHEET # E0.6



ELECTRICAL SITE PLAN | 1" = 30'-0" | 1

NEW CONSTRUCTION GENERAL NOTES

1. REFER TO SHEET E-0.6, BLOCK DIAGRAM, FOR ADDITIONAL REQUIREMENTS.
2. REFER TO SHEET E-0.1, GENERAL NOTES AND DEMOLITION NOTES, FOR ADDITIONAL REQUIREMENTS.
3. ALL LOW VOLTAGE SYSTEM WIRE/.CABLES SERVING BUILDINGS THAT ARE NOT PART OF THE SCOPE OF WORK SHALL BE MAINTAINED IN OPERATION. INTERRUPTION OF SERVICE WILL NOT BE ALLOWED.

CONSTRUCTION KEYNOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING CONDUITS AND PULL BOXES TO BE USED FOR ROUTING OF NEW WIRE/CABLE PRIOR TO START OF CONSTRUCTION AND MAKING NECESSARY ADJUSTMENT TO THE ROUTING OF NEW WIRE/CABLE BASED ON ACTUAL FIELD CONDITIONS.
2. EXISTING POLES TO BE REPLACED WITH NEW TALLER POLES, NEW BASE AND NEW LIGHT FIXTURES. RECONNECT TO EXISTING CIRCUITS. CONTRACTOR TO VERIFY THE PANEL AND CIRCUIT NUMBER.
3. EXTEND NEW CONDUITS AND CIRCUIT CONDUCTORS TO NEW LIGHT FIXTURE AS SHOWN ON THE PLAN. CONNECT TO EXISTING CIRCUITS.

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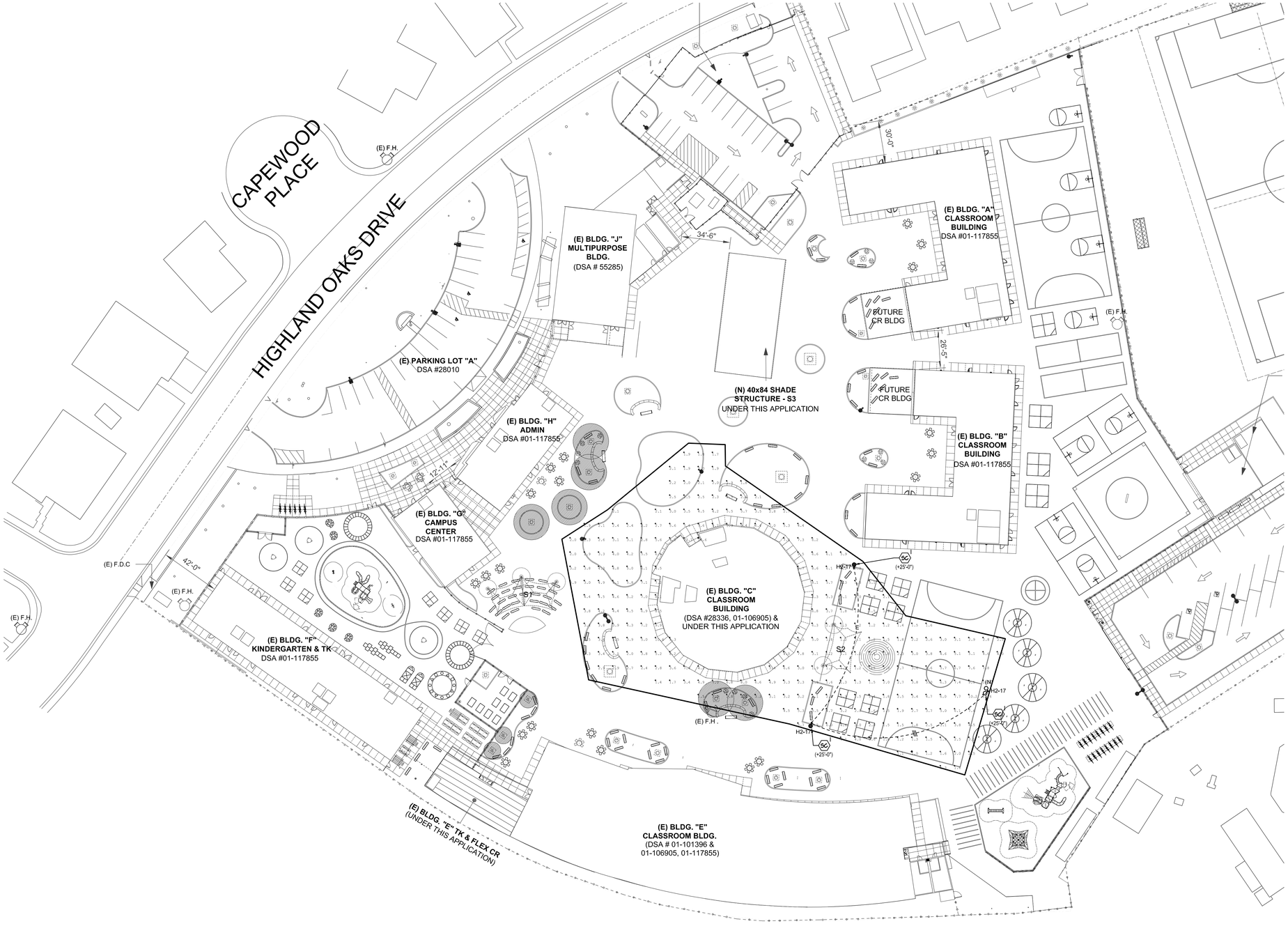
DSA SUB	10/21/2021

SHEET

ELECTRICAL SITE PLAN

DATE 10/21/2021
JOB # 2020029.02
SHEET # E1.1



Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Site Lighting - Building C	Illuminance	Fc	3.94	16.6	1.0	3.94	16.60

NEW CONSTRUCTION GENERAL NOTES

1. THIS LIGHTING PATTERN REPRESENTS ILLUMINATION LEVELS CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS UTILIZING CURRENT INDUSTRY STANDARD LAMP RATINGS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY APPROVED METHODS. ACTUAL PERFORMANCE OF ANY MANUFACTURER'S LUMINARIES MAY VARY DUE TO VARIATION IN ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS AN OTHER VARIABLE FIELD CONDITIONS.

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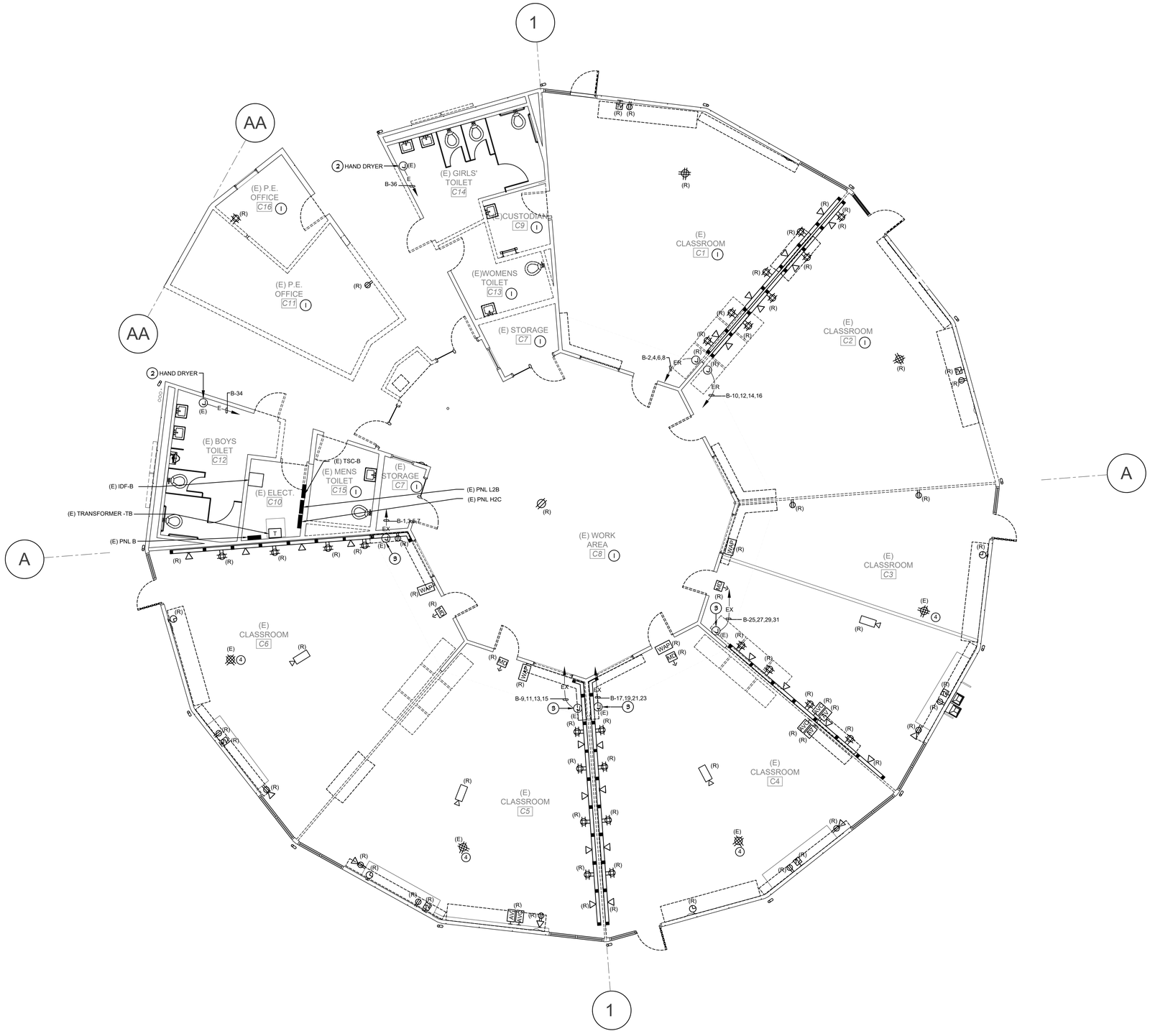
SHEET
ELECTRICAL SITE PLAN - PHOTOMETRICS

DATE 10/21/2021
JOB # 2020029.02
SHEET # E1.1P



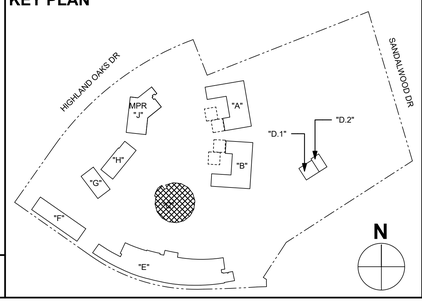
DEMOLITION GENERAL NOTES

1. CONTRACTOR SHALL REMOVE ALL EXISTING CONDUIT AND FEEDERS FROM EQUIPMENT MARKED TO BE REMOVED ALL THE WAY BACK TO THE SERVING PANEL.
2. REFER TO REMODEL PLAN FOR ADDITIONAL REQUIREMENTS.
3. REFER TO SHEET E-0.1, GENERAL NOTES AND DEMOLITION NOTES, FOR ADDITIONAL REQUIREMENTS.

DEMOLITION KEYNOTES

1. UNLESS NOTED OTHERWISE ON PLAN, DISCONNECT AND REMOVE ALL ELECTRICAL EQUIPMENT, OUTLETS/DEVICES, CONDUIT AND WIRE IN ROOMS BEING REMODELED.
2. DISCONNECT AND REMOVE HAND DRYER ONLY. USE EXISTING BACK-BOX AND CIRCUIT CONDUCTORS TO PROVIDE POWER TO THE NEW HAND DRYER.
3. EXISTING CONDUIT HOME-RUN AND BACK-BOX TO REMAIN AND SHALL BE USED TO EXTEND NEW CONDUIT AND CIRCUIT CONDUCTORS TO THE NEW RECEPTACLES.
4. EXISTING FLOOR MOUNTED RECEPTACLES TO REMAIN AND BE PROTECTED DURING CONSTRUCTION.

KEY PLAN



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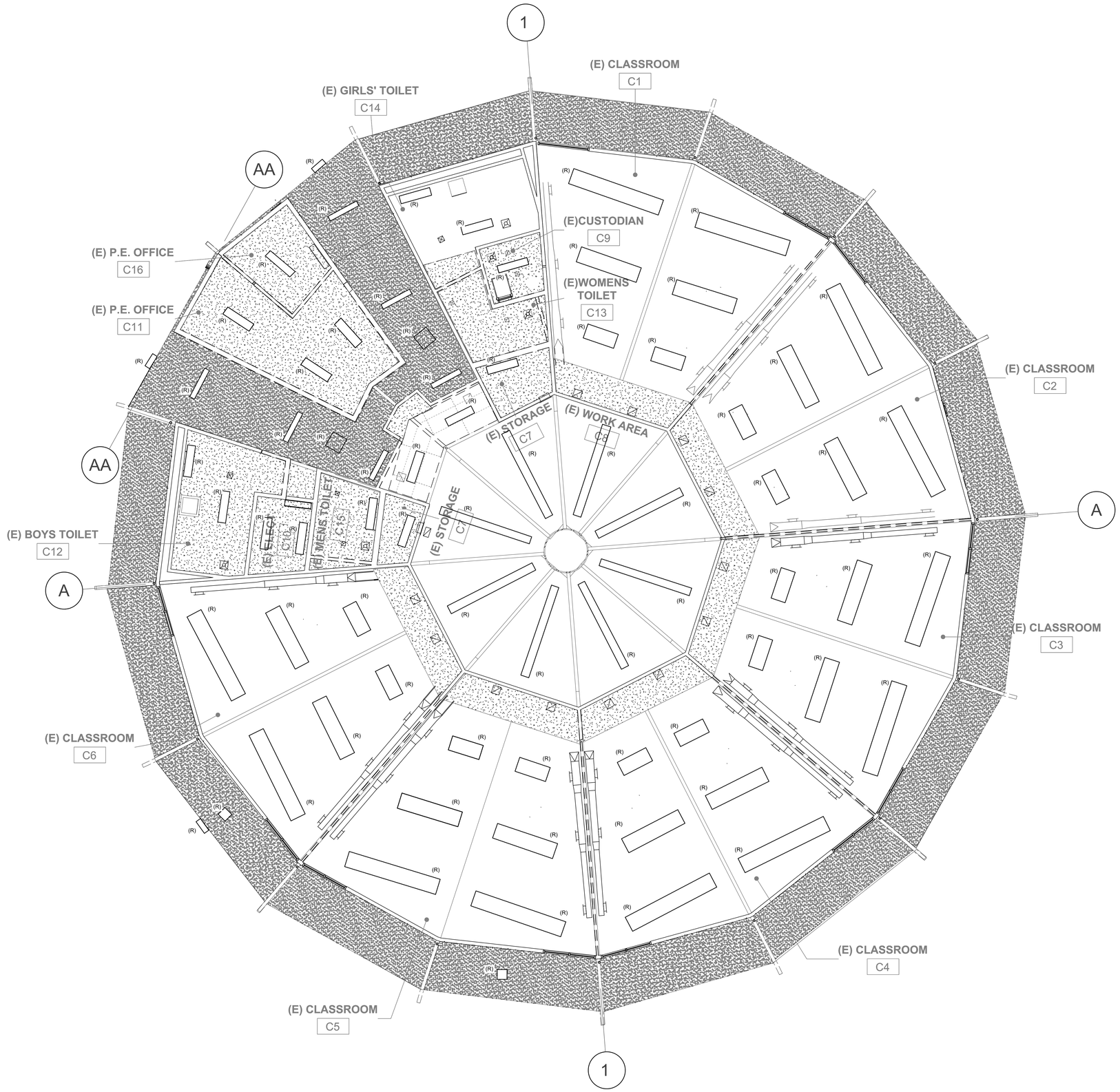
DSA SUB	10/21/2021

SHEET

ELECTRICAL - BUILDING C - DEMOLITION FLOOR PLAN

DATE 10/21/2021
JOB # 2020029.02
SHEET # EDC2.0

ELECTRICAL - BUILDING C - DEMOLITION FLOOR PLAN | 3/16" = 1'-0" | 1

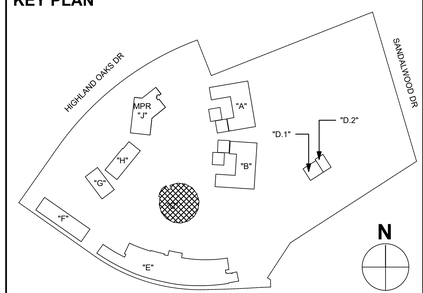


DEMOLITION GENERAL NOTES

DEMOLITION KEYNOTES

1

KEY PLAN



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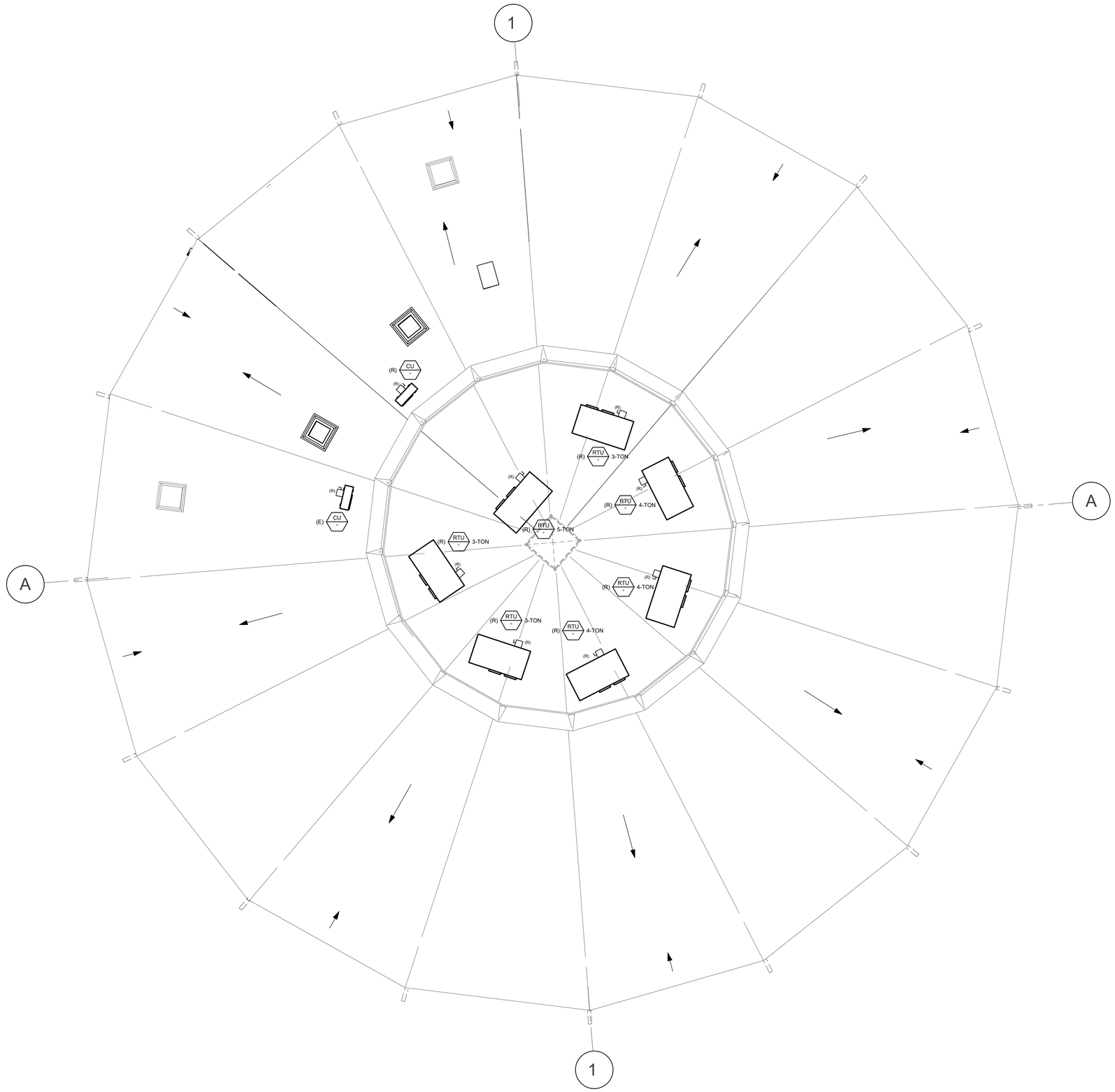
50% CD	09/20/2021
90% CD	10/14/2021
DSA SUB	10/21/2021

SHEET
LIGHTING - BUILDING C - DEMOLITION REFLECTED CEILING PLAN

DATE 10/21/2021
JOB # 2020029.02
SHEET # EDC2.1

LIGHTING - BUILDING C - DEMOLITION REFLECTED CEILING PLAN | 3/16" = 1'-0" | 1



N

DEMOLITION GENERAL NOTES

DEMOLITION KEYNOTES

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APP: 01-119816 INC:
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DATE: 02/25/2022

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PROJECT

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PLEASANTON UNIFIED SCHOOL DISTRICT

CONSULTANT

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STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 1-32
APPL # 01-119816

REVISIONS

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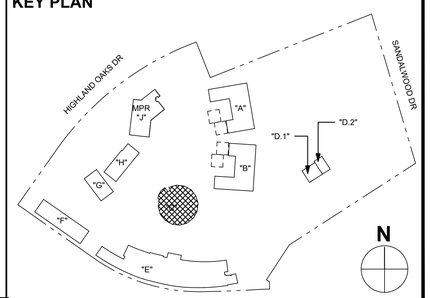
KEY PLAN

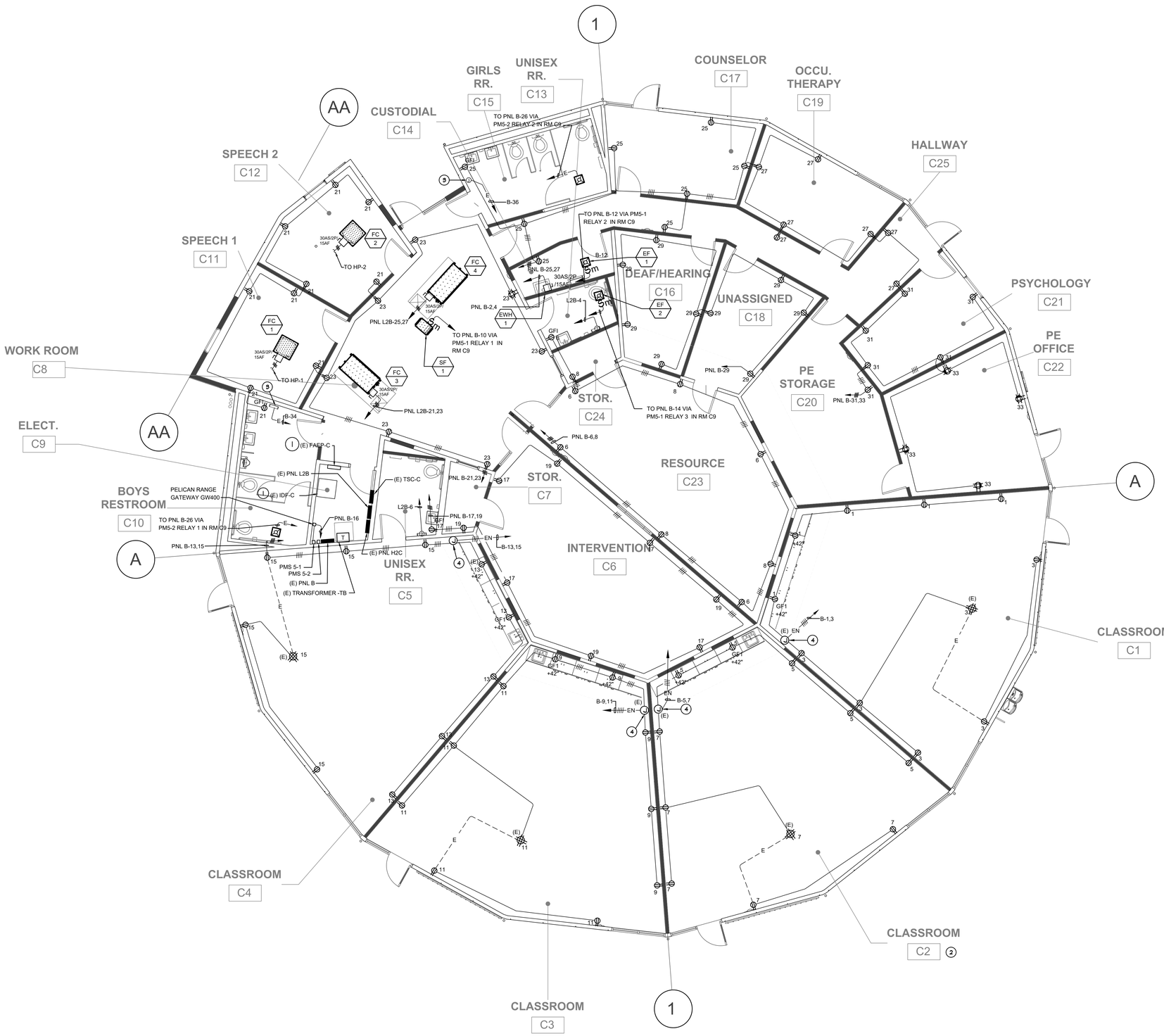


SHEET

ELECTRICAL - BUILDING C - DEMOLITION ROOF PLAN

DATE 10/21/2021
JOB # 2020029.02
SHEET # ED3.0

ELECTRICAL - BUILDING C - DEMOLITION ROOF PLAN | 3/16" = 1'-0" | 1



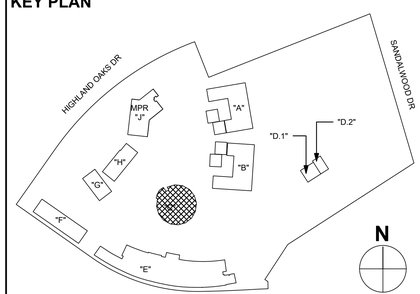
NEW CONSTRUCTION GENERAL NOTES

1. EXACT LOCATION OF OUTLETS SHOWN ON THESE DRAWINGS SHALL BE COORDINATED WITH THE ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN AND SHALL BE LOCATED IN SUCH A MANNER TO AVOID INTERFERENCES WITH OTHER OUTLETS AND CASEWORK.
2. ALL LINE AND LOW VOLTAGE CIRCUITS SERVING THE REMODEL AREA, WHETHER IDENTIFIED ON PLAN OR NOT, SHALL BE TRACED AND IDENTIFIED PRIOR TO THE START OF THE DEMOLITION PHASE. CIRCUITS AFFECTED BY THE REMODEL THAT SERVE AREAS OF THE BUILDING THAT ARE NOT PART OF THE REMODEL SHALL BE MAINTAINED IN OPERATION DURING THE CONSTRUCTION PHASE. INTERRUPTION OF SERVICE WILL NOT BE ALLOWED.

CONSTRUCTION KEYNOTES

1. PROVIDE NEW IDENTIFICATION NAME PLATE FOR THE IDF AND TERMINAL CABINET.
2. ALL NEW CONDUIT RUN IN CLASSROOM CEILINGS SHALL BE RUN CONCEALED WITHIN THE JOISTS.
5. NEW HAND DRYER AT REMOVED DRYER LOCATION. CONNECT TO EXISTING CIRCUIT.
4. EXISTING JUNCTION BOX AT CONDUIT HOME-RUN TO EXISTING PANEL. EXTEND NEW CONDUIT AND CONDUCTORS TO NEW RECEPTACLES AS INDICATED ON PLAN. FIELD VERIFY EXACT LOCATION OF THE JUNCTION BOX PRIOR TO START OF CONSTRUCTION AND ENSURE THE JUNCTION BOX IS CONCEALED IN THE CEILING SPACE. PROVIDE NEW ACCESS PANEL AS REQUIRED TO ACCESS THE J-BOX.

KEY PLAN



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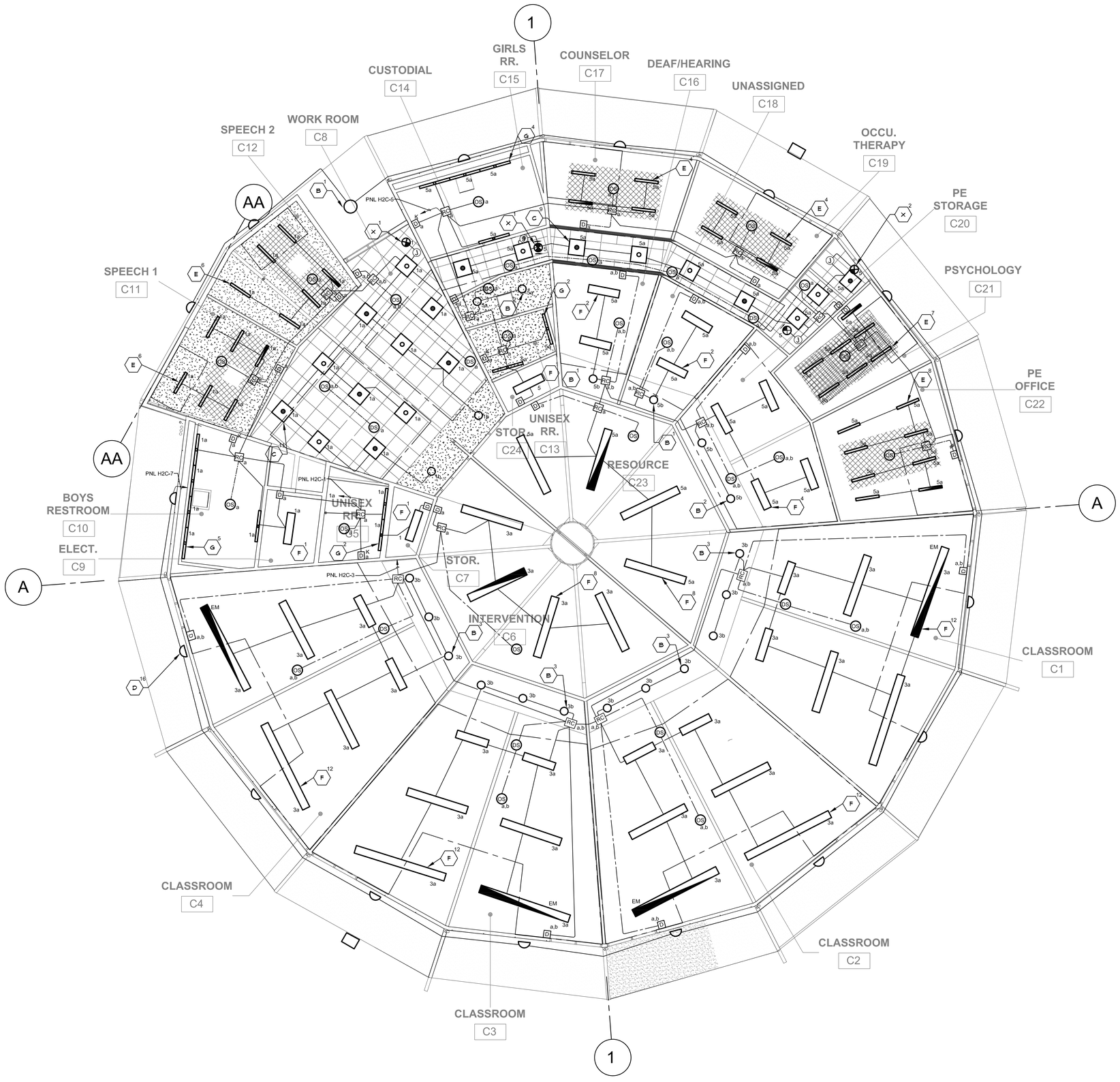
SHEET
POWER - BUILDING C - NEW FLOOR PLAN

DATE 10/21/2021
JOB # 2020029.02
SHEET # EC2.0

POWER - BUILDING C - NEW FLOOR PLAN | 3/16" = 1'-0" | 1

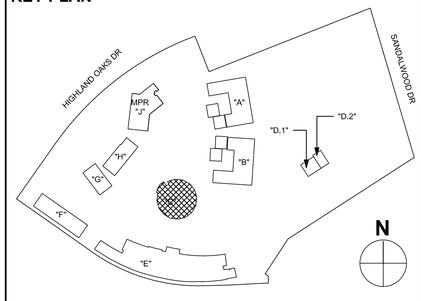


NEW CONSTRUCTION GENERAL NOTES

1. REFER TO GENERAL NOTES, SHEET E-0.1 FOR ADDITIONAL REQUIREMENTS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL CEILING MOUNTED DEVICES WITH THE ARCHITECTURAL REFLECTED CEILING PLAN.
3. REFER TO LIGHTING FIXTURE SCHEDULE, DRAWING E-0.2, FOR TYPE OF FIXTURE TO BE PROVIDED AND INSTALLED.
4. EXACT LOCATION OF OCCUPANT SENSORS SHALL BE COORDINATED WITH THE OCCUPANCY SENSOR MANUFACTURER PRIOR TO ROUGH -IN TO ENSURE PROPER OPERATION AND COVERAGE OF THE SENSORS.
5. CONTRACTOR TO MEET AND COORDINATE WITH THE TITLE 24 ACCEPTANCE TESTER PRIOR TO THE BEGINNING OF THE PROJECT TO VERIFY ALL TITLE 24 ACCEPTANCE TEST REQUIREMENTS AND DOCUMENTS TO BE COMPLETED.

CONSTRUCTION KEYNOTES

KEY PLAN



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DSA FILE NUMBER 1-32
APPL # 01-119816

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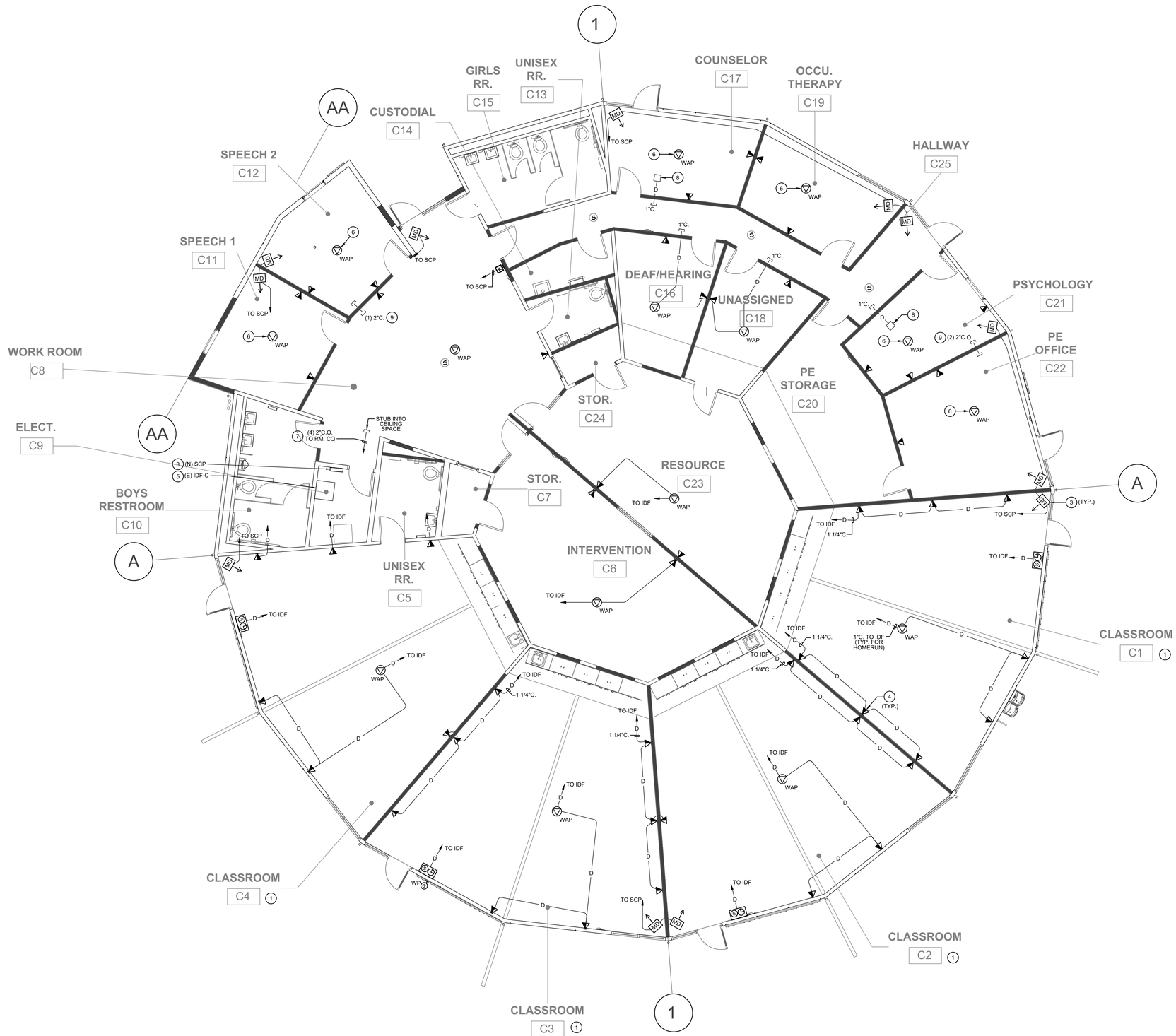
SHEET

LIGHTING - BUILDING C - NEW REFLECTED CEILING PLAN

DATE 10/21/2021
JOB # 2020029.02
SHEET # EC2.1

LIGHTING - BUILDING C - NEW REFLECTED CEILING PLAN | 3/16" = 1'-0" | 1



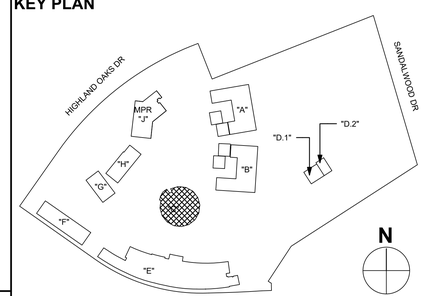
NEW CONSTRUCTION GENERAL NOTES

CONSTRUCTION KEYNOTES

1. ALL NEW CONDUIT RUN IN CLASSROOM CEILINGS SHALL BE RUN CONCEALED WITHIN THE JOIST.
2. LOW VOLTAGE WIRE/CABLE INSTALLED OVER T-BAR CEILING SHALL BE PLENUM RATED AND SUPPORTED BY J-HOOK.
3. PROVIDE BACKBOX AND RACEWAY ONLY FOR INSTALLATION OF OWNER FURNISHED AND INSTALLED SECURITY EQUIPMENT/DEVICES AND WIRE/CABLE. EXACT LOCATION OF THE SECURITY CONTROL PANEL (SCP) TO BE DETERMINED IN FIELD.
4. OUTLET BOXES IN WALLS SHALL NOT BE INSTALLED BACK-TO-BACK. MAINTAIN MINIMUM 12" HORIZONTAL SEPARATION BETWEEN OUTLETS, ON OPPOSITE WALL SURFACES, WHERE INSTALLED IN THE SAME STUD BAY.
5. EXISTING IDF TO BE RETROFFITED WITH NEW RACK MOUNTED EQUIPMENT (i.e. PATCH PANELS, MODULES, CONNECTORS, ETC.) THAT ARE FULLY COMPATIBLE WITH THE NEW SINGLE MODE NETWORK FIBER CABLING SYSTEM. EXISTING RACK MOUNTED EQUIPMENT THAT IS NO LONGER IN USE SHALL BE DISCONNECTED, REMOVED AND TURNED OVER TO THE SCHOOL DISTRICT IN "AS-FOUND" CONDITION.
6. IN ROOMS WITH FLOATING CEILINGS, INSTALL WIRELESS ACCESS POINTS ON THE FLOATING CEILING AND IN SUCH A MANNER AS TO AVOID CONFLICT WITH OTHER OUTLETS, DEVICES, FIXTURES, AND UTILITIES.
7. PROVIDE CONDUIT SLEEVES FOR ROUTING OF LOW VOLTAGE WIRE/CABLE BETWEEN ACCESSIBLE CEILING SPACES AND ROOMS WITH HARD-LID CEILINGS OR ROOMS WITH NO CEILINGS, AND FOR ROUTING OF CABLES THRU FULL HEIGHT WALLS. SLEEVES SHALL BE SEALED TO ELIMINATE NOISE TRANSMISSION BETWEEN ROOMS.
8. PROVIDE 9" SQUARE X 4" DEEP MINIMUM PULL BOX TO COLLECT/GATHER LOW VOLTAGE CABLES INSTALLED IN OPEN CEILINGS.
9. ALL CONDUIT WALL PENETRATIONS SHALL BE SEALED TO ELIMINATE NOISE TRANSMISSION BETWEEN ROOMS.

SIGNAL - BUILDING C - NEW FLOOR PLAN | 3/16" = 1'-0" | 1

KEY PLAN



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STATE
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APPL # 01-119816

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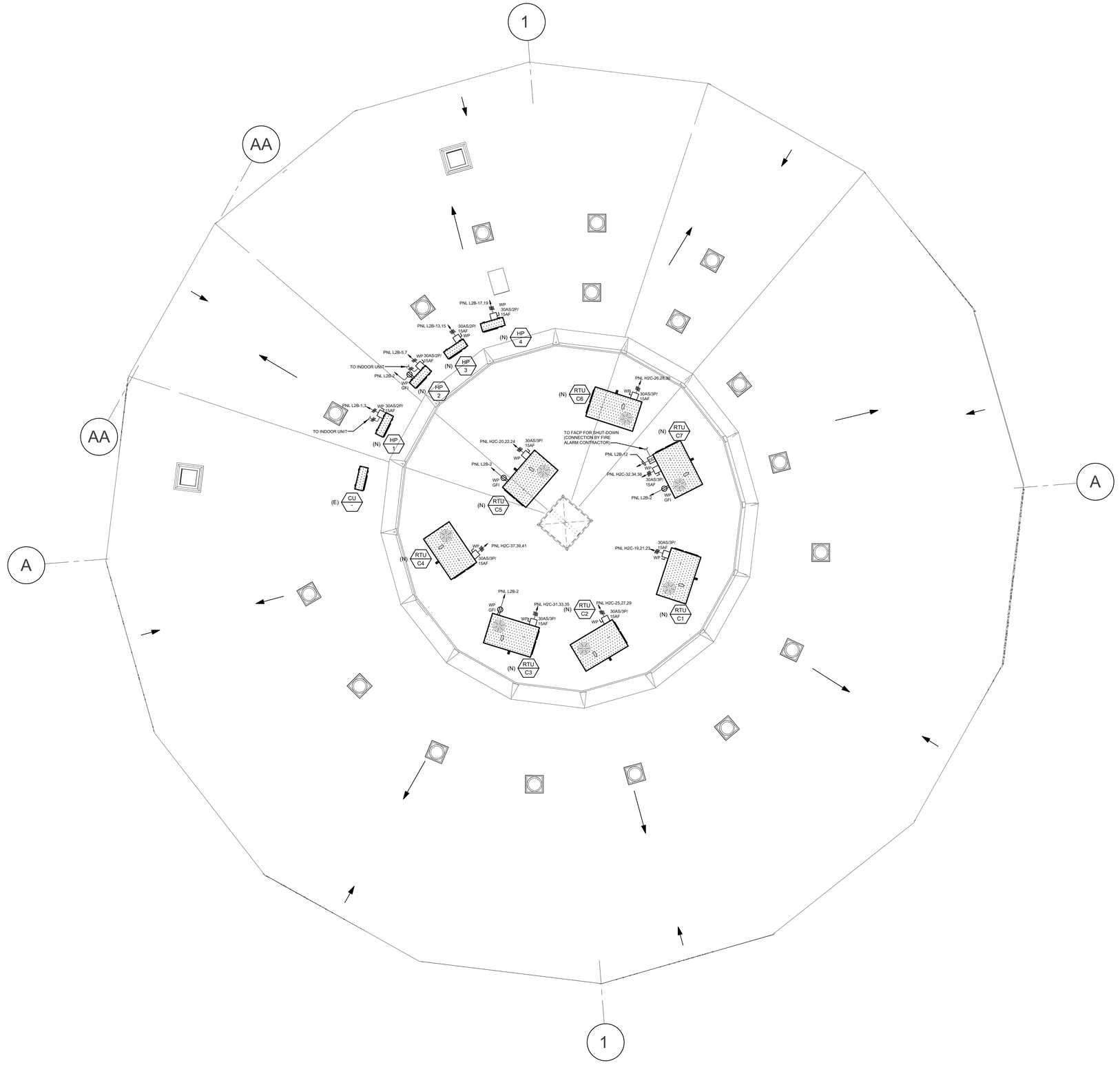
SHEET
SIGNAL - BUILDING C - NEW FLOOR PLAN

DATE 10/21/2021
JOB # 2020029.02
SHEET # EC2.2



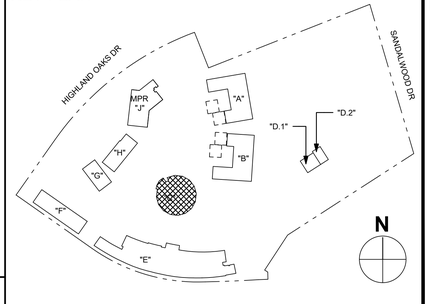
N

NEW CONSTRUCTION GENERAL NOTES

1. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT EQUIPMENT LOCATIONS, AND ELECTRICAL CONNECTION REQUIREMENTS.
2. EXTERIOR MOUNTED DEVICES/RECEPTACLES SHALL BE PROVIDED WITH COMPLETE LOCKING TYPE WEATHERPROOF COVERS AND BE U.L. LISTED FOR WET LOCATIONS WHEN IN USE. COVERS SHALL BE AS MANUFACTURED BY RACO OR APPROVED EQUAL. PLASTIC COVERS NOT ALLOWED.

CONSTRUCTION KEYNOTES

KEY PLAN



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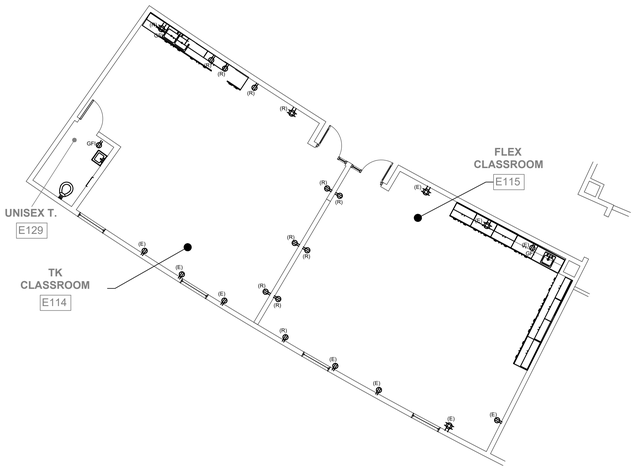
SHEET

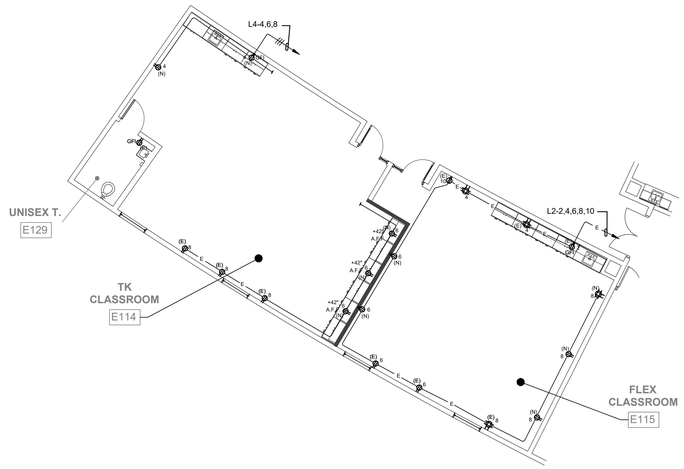
ELECTRICAL - BUILDING C - NEW ROOF PLAN

DATE 10/21/2021
JOB # 2020029.02
SHEET # EC3.0

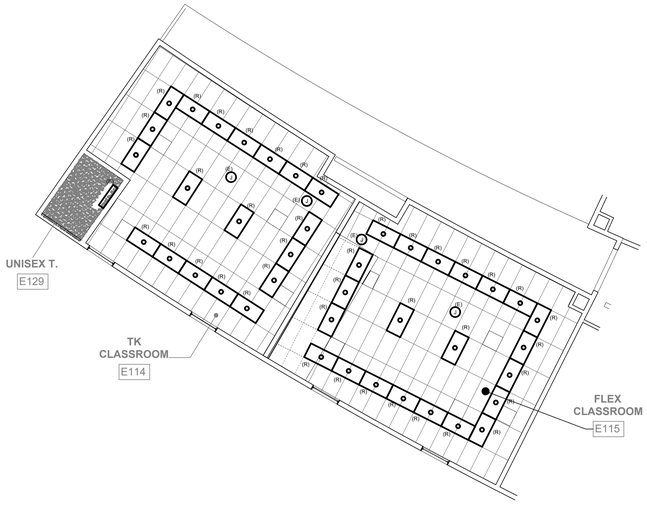
ELECTRICAL - BUILDING C - NEW ROOF PLAN | 3/16" = 1'-0" | 1



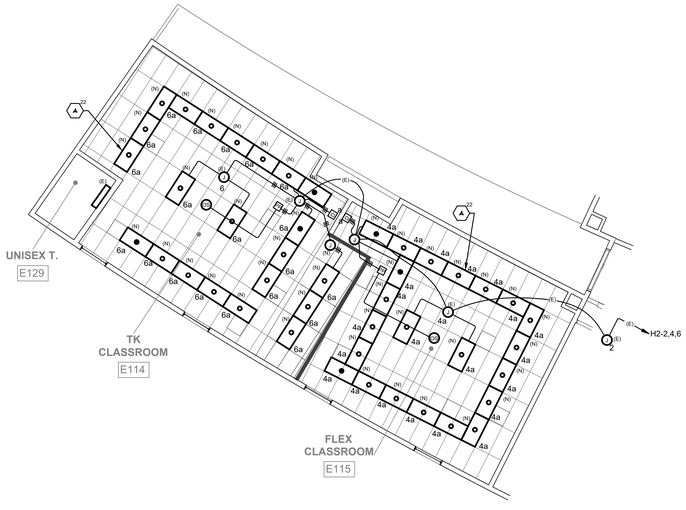
POWER - BUILDING E - DEMOLITION FLOOR PLAN | 1/4" = 1'-0" | 1



POWER - BUILDING E - NEW FLOOR PLAN | 1/4" = 1'-0" | 2



LIGHTING - BUILDING E - DEMOLITION REFLECTED CEILING PLAN | 1/4" = 1'-0" | 3



LIGHTING - BUILDING E - NEW REFLECTED CEILING PLAN | 1/4" = 1'-0" | 4

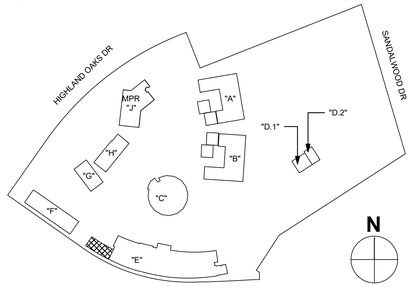
NEW CONSTRUCTION GENERAL NOTES

1. -

CONSTRUCTION KEYNOTES

1 -

KEY PLAN



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SHEET

POWER AND LIGHTING - BUILDING E - DEMOLITION AND NEW FLOOR PLAN

DATE 10/21/2021

JOB # 2020029.02

SHEET # EE3.1

SEQUENCE OF OPERATIONS

	AREA SMOKE/HEAT DETECTORS	DUCT SMOKE DETECTORS	WIRE-TO-WIRE SHORT ON CLASS B INITIATING	SINGLE OPEN ON CLASS B INITIATING CIRCUIT	SINGLE GROUND ON CLASS B INITIATING CIRCUIT	SINGLE OPEN ON NOTIFICATION OF CIRCUIT
ANNUNCIATE AT FACP AND KEYPAD	●	●	●	●	●	●
SEND ALARM SIGNAL TO THE CENTRAL STATION	●	●				
SEND A TROUBLE SIGNAL TO THE CENTRAL STATION			●	●	●	●
ACTIVATE AUDIBLE AND VISIBLE NOTIFICATION DEVICES	●					
SHUT-DOWN HVAC UNIT		●				

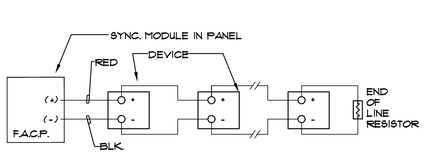
NOTE: ALL INITIATING AND NOTIFICATION CIRCUITS ARE CLASS B TYPE.

NOTE: THE HVAC UNITS ARE CONTROLLED BY THE DUCT AREA SMOKE DETECTORS. THE DUCT SMOKE DETECTORS WILL TRIP THE FACP AND THE FACP WILL SHUT DOWN ALL THE HVAC UNITS WITHIN THE BUILDING THE ALARM IS COMING FROM.

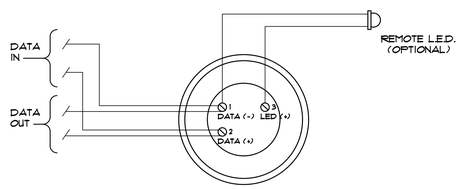
NOTE: ALL HVAC UNITS WILL SHUT DOWN UPON ACTIVATION OF ANY FIRE ALARM DEVICE WITHIN THE BUILDING THAT THE HVAC UNITS ARE IN. ALL HVAC UNITS WILL SHUT DOWN UPON ACTIVATION OF ANY FIRE ALARM DEVICES WITHIN THE BUILDING THAT THE HVAC IS IN.

FIRE ALARM SYMBOL LIST

SYMBOL	MFG.	PART NO.	DESCRIPTION	BACKBOX/BASE	MNTG. HEIGHT/DETAILS	CSFM LISTING NO.
FACP	NOTIFIER	NFS2-3030	EXISTING FIRE ALARM CONTROL PANEL W/ VOICE EVAC SYSTEM AM01-117855	PROVIDED WITH PANEL	WALL	7165-0028:0224
AMP	NOTIFIER	DAA2-7525	DIGITAL AUDIO AMPLIFIER	PROVIDED WITH PANEL	WALL	7165-0028:0224
FAPS	NOTIFIER	PSE-6	FIRE ALARM POWER SUPPLY	SURFACE MOUNT WALL BOX	WALL	7315-1637:0513
SD	NOTIFIER	FSP-951	PHOTOELECTRIC SMOKE DETECTOR	4-S 2-1/8" DP W/3-0 RING	ON CEILING	7272-0028:0503
		B300-6	SENSOR BASE			7300-1653:0109
SD CO	NOTIFIER	FCO-951	PHOTOELECTRIC SMOKE DETECTOR	4-S 2-1/8" DP W/3-0 RING	ON CEILING	7272-0028:0510
		B200S-WH	WITH SOUNDER BASE			7300-0028:0213
HD	NOTIFIER	FST-951H	190° HEAT DETECTOR FIXED TEMPERATURE	4-S 2-1/8" DP W/3-0 RING	IN ATTIC	7270-0028:0502
		B300-6	SENSOR BASE			7300-1653:0109
DH	NOTIFIER	DNR	AIR DUCT SMOKE DETECTOR	14.38"L X 5"W X 2.5"D	IN DUCT	3240-1653:0209
		FSP-951R				7272-0028:0503
CR	NOTIFIER	FRM	CONTROL RELAY MODULE	4.5"L X 4"W X 1.25"D	IN DUCT	7300-0028:0219
VSA	SYSTEM SENSOR	SRL	MULTI-CANDELA ADA STROBE	4-S 2-1/8" DP W/1-GR	90" MAX	7125-1653:0504
					80" MIN	
VSAS	SYSTEM SENSOR	SPSRL	MULTI-CANDELA SPEAKER/STROBE SPEAKER SET AT 1/2W	4-S 2-1/8" DP W/1-GR	90" MAX	7320-1653:0505
					80" MIN	
SWP	SYSTEM SENSOR	SPRK	EXTERIOR SPEAKER SET AT 2W	MWBB WP BOX	90" TO TOP	7320-1653:0201

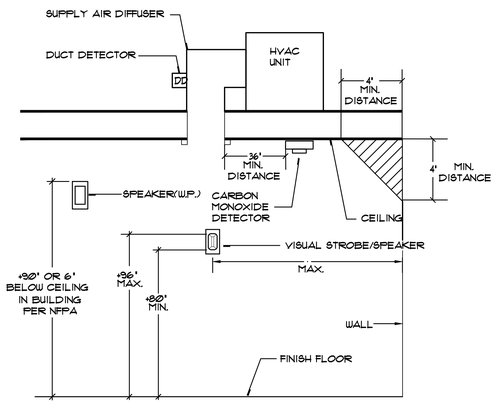


TYPICAL VISUAL DEVICE WIRING
N.T.S.

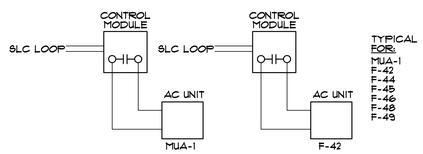


TYPICAL CO/HEAT/SMOKE DETECTOR WIRING
N.T.S.

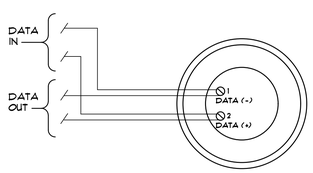
NOTE:
LOCATION OF SMOKE DETECTORS PER SMOOTH CEILING TYPE. NFPA 72 CHAPTER 3 PROVISION.



FIRE ALARM DEVICE MOUNTING
N.T.S.

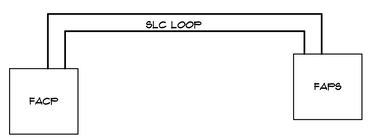


TYP. AC UNIT SHUT-DOWN
N.T.S.

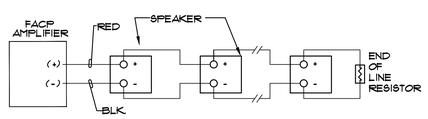


TYP. DUCT SMOKE DETECTOR WIRING
N.T.S.

NOTE:
SMOKE DETECTOR MOUNTED IN DUCT DETECTOR HOUSING



POWER SUPPLY CONNECTION TO FACP
N.T.S.



TYPICAL AUDIO DEVICE WIRING
N.T.S.

COMPLETE AUTOMATIC FIRE ALARM SYSTEM SUBMITTAL

CONDUIT AND WIRE SPECIFICATIONS

LABEL	DESCRIPTION OF CONTENTS	CONDUIT SIZE (UNO)	CIRCUIT TYPE
F1	(1)-2/16	3/4" MIN.	SLC
F2	(2)-#12THWN CU WIRES	3/4" MIN.	NAC
F3	(1)-2/16 PLUS (2)-#12THWN CU WIRES	3/4" MIN.	SLC/NAC
F4	(4)-#12THWN CU WIRES	3/4" MIN.	NAC
F5	(1)-2/16 PLUS (4)-#12THWN CU WIRES	3/4" MIN.	SLC/NAC
F6	(2)-#12THWN CU WIRES PLUS (1)-2/16 AUDIO CABLE	3/4" MIN.	NAC/SPKR
F7	(1)-2/16 PLUS (2)-#12THWN CU WIRES (2)-2/16 AUDIO CABLE	1" MIN.	SLC/NAC/ SPKR
F8	(1)-2/16 PLUS (4)-#12THWN CU WIRES (2)-2/16 AUDIO CABLE	1" MIN.	SLC/NAC/ SPKR
F9	(1)-2/16 PLUS (2)-#12THWN CU WIRES (1)-2/16 AUDIO CABLE	3/4" MIN.	SLC/NAC/ SPKR
F10	(2)-2/16	3/4" MIN.	SLC
F11	(1)-2/16 PLUS (6)-#12THWN CU WIRES	3/4" MIN.	SLC/NAC
F12	(2)-#12THWN CU WIRES PLUS (2)-2/16 AUDIO CABLE	3/4" MIN.	NAC/SPKR
F13	(2)-2/16 PLUS (2)-2/16 AUDIO CABLE	3/4" MIN.	SLC/SPKR
F14	(4)-#12 THWN CU WIRES PLUS (1)-2/16 AUDIO CABLE	3/4" MIN.	NAC/SPKR
F15	(4)-#12 THWN CU WIRES PLUS (2)-2/16 AUDIO CABLE	3/4" MIN.	NAC/SPKR
F16	(2)-2/16 PLUS (2)-#12 THWN CU WIRES (1)-2/16 AUDIO CABLE	1" MIN.	SLC/NAC/ SPKR
F17	(1)-2/16 PLUS (1)-2/16 AUDIO CABLE	3/4" MIN.	SLC/SPKR
FA1	(2)-2/16	3/4" MIN.	SPKR
FA2	(2)-2/16 AUDIO CABLE	3/4" MIN.	SPKR

NOTES:
1. 2/16 = ATLAS WIRE 222-16-1-1TP; INSIDE ONLY.
2. 2/16 = ATLAS WIRE 213-16-19-2J; UNDERGROUND.
3. ALL WIRING TO BE LISTED FOR USE AS REQUIRED BY TITLE 24/CEC, ART. 760.
4. "THWN", "AQUASEAL", OR EQUAL TO BE USED IN WET LOCATIONS.

FIRE ALARM SCOPE OF WORK

AN EXISTING FIRE ALARM SYSTEM NFS2-3030 AT LYDIKSEN ELEMENTARY SCHOOL SHALL BE EXPANDED.

A COMPLETE REMODEL OF THE FIRE ALARM SYSTEM IN BUILDING C. THE FIRE ALARM SYSTEM TO INCLUDE DUCT, SMOKE AND ATTIC HEAT DETECTORS.

MODERNIZATION OF THE FIRE ALARM SYSTEM TWO CLASSROOMS IN BUILDING E. THE EXISTING SMOKE DETECTORS SHALL BE RELOCATED TO COMPLY WITH NFPA-72.

NEW STROBES, SPEAKER/STROBES, AND WEATHERPROOF SPEAKERS LISTED FOR THE HEARING IMPAIRED WILL BE INSTALLED TO ACTIVATE DURING THE GENERAL ALARM.

FIRE ALARM SHEET LIST

GENERAL FIRE ALARM NOTES

1. APPLICABLE STANDARD 2016 NFPA 72.
2. INSTALLTION 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 AND THE CONTRACTOR SUBMITTED PRODUCT SUBMITTALS AND SHOP DRAWINGS HAVE BEEN REVIEWED AND ACCEPTED BY THE ENGINEER OF RECORD.
3. UPON COMPLETION OF THE INSTALLATION OF THE SYSTEMS, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF DSA PROJECT INSPECTOR.
4. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLTION.
5. 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 VISUAL NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED 80" MINIMUM AND 96" MAXIMUM FROM FINISHED FLOOR.
9. WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED 80" MINIMUM AND 108" MAXIMUM FROM FINISHED FLOOR AND NO CLOSURE THE 6' TO A HORIZONTAL STRUCTURE.
10. AUDIBLE DEVICES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 DECIBELS (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 SYNCHRONIZED TEMPORAL CODE 3 PATTERN.
12. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
13. VISUAL DEVICES SHOULD NOT EXCEED 2 FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN 1 FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELA VISUAL DEVICES WITHIN 55' FROM EACH OTHER SHALL BE SYNCHRONIZED.
14. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATERTIGHT FITTINGS AND WIRE TO BE APPROVED FOR WET LOCATIONS.
15. ALL FIRE ALARM WIRING SHALL BE FLP OR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION INSTALLED IN CONDUIT. WIRING IN CONDUIT ABOVE GROUND MAY BE 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. THERE MUST BE AT LEAST 6" OF LEAD WIRE FROM THE BOX TO THE DEVICE ALL BOXES TO BE SIZED PER CEC.
17. SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1' FROM FIRE SPRINKLERS 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. FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURES SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED THE WEIGHT OF 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.
19. 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 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.
20. THE INSTALLING CONTRACTOR SHALL PROVIDE A COMPLETE "SYSTEM RECORD OF COMPLETION" PER NFPA 72, FIGURE 11.8.2.
21. CONTROL PANELS, REMOTE ANNUNCIATOR SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48".
22. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC CHAPTER 2016.2.
23. SUPERVISORY MONITORING SHALL TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST.
24. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTACT OR PROVISIONS.
25. 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, AS AMENDED BY CFC CHAPTER 80. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX (CENTRAL STATION) OR UUJS (REMOTE + PROPRIETARY) BY UNDERWRITERS LABORATORY INC. (UL) OR OTHER APPROVED LISTING AND TESTING LABORATORY OR SHALL COMPLY WITH THE REQUIREMENTS OF STANDARD, FACTORY MUTUAL (FM) 3011. TERMINATION OF MONITORING SERVICES SHALL BE IN ACCORDANCE WITH CBC/CFC SECTION 907.6.6.2.
26. MICROPHONE ASSOCIATED WITH EMERGENCY VOICE ALARM COMMUNICATION SYSTEMS (EVAC) SHALL BE ACCESSIBLE FOR USE, INSTALLED IN COMPLIANCE WITH CBC SECTIONS 11B-308 AND 11B-306.

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PROJECT
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PLEASANTON UNIFIED SCHOOL DISTRICT

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REGISTERED PROFESSIONAL ENGINEER
ROLANDO E. SUELO
No. E17229
6/30/22
ELECTRICAL
STATE OF CALIFORNIA

STATE
DSA FILE NUMBER 1-32
APPL # 01-119816

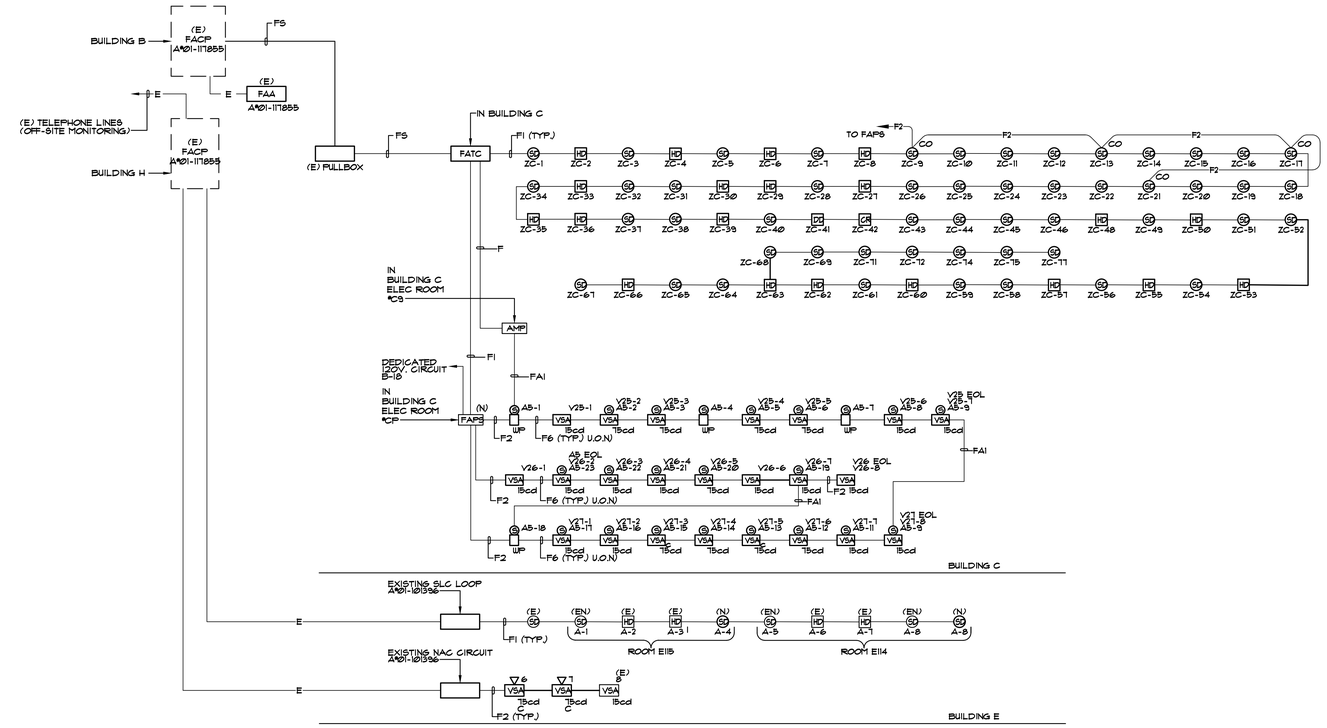
REVISIONS

MILESTONES

SD	06/28/2021
DD	08/23/2021
50% CD	09/20/2021
90% CD	10/14/2021
DSA SUB	10/21/2021

SHEET
FIRE ALARM GENERAL NOTES AND LEGENDS

DATE 10/21/2021
JOB # 2020029.02
SHEET # FA-0.1



CONDUIT AND WIRE SPECIFICATIONS

LABEL	DESCRIPTION OF CONTENTS	CONDUIT SIZE (UNO)	CIRCUIT TYPE
F1	(1)–2/16	3/4" MIN.	SLC
F2	(2)–#12THWN CU WIRES	3/4" MIN.	NAC
F3	(1)–2/16 PLUS (2)–#12THWN CU WIRES	3/4" MIN.	SLC/NAC
F4	(4)–#12THWN CU WIRES	3/4" MIN.	NAC
F5	(1)–2/16 PLUS (4)–#12THWN CU WIRES	3/4" MIN.	SLC/NAC
F6	(2)–#12THWN CU WIRES PLUS (1)–2/16 AUDIO CABLE	3/4" MIN.	NAC/SPKR
F7	(1)–2/16 PLUS (2)–#12THWN CU WIRES (2)–2/16 AUDIO CABLE	1" MIN.	SLC/NAC/ SPKR
F8	(1)–2/16 PLUS (4)–#12THWN CU WIRES (2)–2/16 AUDIO CABLE	1" MIN.	SLC/NAC/ SPKR
F9	(1)–2/16 PLUS (2)–#12THWN CU WIRES (1)–2/16 AUDIO CABLE	3/4" MIN.	SLC/NAC/ SPKR
F10	(2)–2/16	3/4" MIN.	SLC
F11	(1)–2/16 PLUS (6)–#12THWN CU WIRES	3/4" MIN.	SLC/NAC
F12	(2)–#12THWN CU WIRES PLUS (2)–2/16 AUDIO CABLE	3/4" MIN.	NAC/SPKR
F13	(2)–2/16 PLUS (2)–2/16 AUDIO CABLE	3/4" MIN.	SLC/SPKR
F14	(4)–#12 THWN CU WIRES PLUS (1)–2/16 AUDIO CABLE	3/4" MIN.	NAC/SPKR
F15	(4)–#12 THWN CU WIRES PLUS (2)–2/16 AUDIO CABLE	3/4" MIN.	NAC/SPKR
F16	(2)–2/16 PLUS (2)–#12 THWN CU WIRES (1)–2/16 AUDIO CABLE	1" MIN.	SLC/NAC/ SPKR
F17	(1)–2/16 PLUS (1)–2/16 AUDIO CABLE	3/4" MIN.	SLC/SPKR
FA1	(1)–2/16 AUDIO CABLE	3/4" MIN.	SPKR
FA2	(2)–2/16 AUDIO CABLE	3/4" MIN.	SPKR
F	(1)–62.5 µm MULTIMODE (OM1) – FIBER	3/4" MIN.	SPKR
FS	(1)–62.5 µm MULTIMODE (OM1) – FIBER (1)–2/16	3/4" MIN.	SLC/SPKR

NOTES:
1. 2/16 = ATLAS WIRE 222-16-1-17P; INSIDE ONLY.
2. 2/16 = ATLAS WIRE 213-16-19-2J; UNDERGROUND.
3. ALL WIRING TO BE LISTED FOR USE AS REQUIRED BY TITLE 24/CEC, ART. 760.
4. "THWN", "AQUASEAL", OR EQUAL TO BE USED IN WET LOCATIONS.

NFS2-3030 Fire Alarm Panel A#01-117855
Lydiksen Elementary School
FACP- Data Loops and Visual Circuits

Description	Quantity		Standby (Amps)	Total Standby (Amps)	Alarm (Amps)	Total Alarm (Amps)
EXISTING LOAD	1	x	0.512650	0.512650	2.260360	2.260360
FSP-951 (Smoke Detector)	56	x	0.000200	0.011200	0.004500	0.252000
FST-95H (Attic Heat Detector)	24	x	0.000200	0.004800	0.004500	0.108000
DNR (Duct Detector)	1	x	0.000200	0.000200	0.004500	0.004500
Total:				0.528850		2.624860
Battery Calculation	**Time Multiplier**			**Amp Hours**		
Supervisory Hours	24	x	0.528850	= 12.692400		
Alarm Minutes	0.250	x	2.624860	= 0.656215		
Total Amp Hours				= 13.348615		
De-Rating Capacity	1.2	x	13.348615	= 16.018338		
Existing Battery (AH)				= 55		
Battery Spare (AH)				= 41.651385	75.7%	

Building C HPFF8CM Battery Calculations
Lydiksen Elementary School
Circuits

Description	Quantity		Standby (Amps)	Total Standby (Amps)	Alarm (Amps)	Total Alarm (Amps)
PSE-6 Power Supply	1	x	0.139000	0.139000	0.157000	0.157000
CO Detector Base	4	x	0.170000	0.680000	0.170000	0.680000
SRL 15cd Strobe	4	x			0.043000	0.172000
SPSRL 15cd Speaker/Strobe, Wall	12	x			0.041000	0.492000
SPSRL 75cd Speaker/Strobe, Wall	7	x			0.111000	0.777000
Total:				0.819000		2.278000
Battery Calculation	**Time Multiplier**			**Amp Hours**		
Supervisory Hours	24	x	0.819000	= 19.656000		
Alarm Minutes	0.250	x	2.278000	= 0.5695		
Total Amp Hours				= 20.225500		
De-Rating Capacity	1.2	x	20.225500	= 24.270600		
Existing Battery (AH)				= 26		
Battery Spare (AH)				= 5.774500	22.2%	

Building C DAA2 Battery Calculations
Lydiksen Elementary School
Circuits - V25, V26, & V27

Description	Quantity		Standby (Amps)	Total Standby (Amps)	Alarm (Amps)	Total Alarm (Amps)
DAA - 50W Amplifier	1	x	0.400000	0.400000	0.500000	0.500000
SPSRL 15cd Speaker/Strobe, Wall	13	x			0.041000	0.533000
SPSRL 75cd Speaker/Strobe, Wall	7	x			0.111000	0.777000
SPRK Weatherproof Speaker	4	x			0.000000	0.000000
Total:				0.400000		1.810000
Battery Calculation	**Time Multiplier**			**Amp Hours**		
Supervisory Hours	24	x	0.400000	= 9.600000		
Alarm Minutes	0.250	x	1.810000	= 0.4525		
Total Amp Hours				= 10.052500		
De-Rating Capacity	1.2	x	10.052500	= 12.063000		
Battery Used (AH)				= 18.000000		
Battery Spare (AH)				= 7.947500	44.2%	

Worst Case Voltage Drop Calculations
Lydiksen Elementary School - Building C
FAPS Circuit V25

Description	Quantity		Alarm (Amps)		Total Alarm (Amps)
75cd Speaker/Strobe	4	x	0.111000	=	0.444000
15cd Speaker/Strobe	2	x	0.041000	=	0.082000
15cd Strobe	1	x	0.043000	=	0.043000
Total Current Draw:				=	0.569000
Wire Size 14	0	x	4110	=	0
Wire Size 12	1	x	6530	=	6530
Wire Used Circular Mills				=	6530
Distance to End of Circuit:				=	221
Multiplier				=	21.6
Voltage				=	20.4
Multiplier				=	4.166
Percentage Voltage Drop				=	1.733

Worst Case Voltage Drop Calculations
Lydiksen Elementary School - Building C
FAPS Circuit V26

Description	Quantity		Alarm (Amps)		Total Alarm (Amps)
75cd Speaker/Strobe	1	x	0.111000	=	0.111000
15cd Speaker/Strobe	4	x	0.041000	=	0.164000
15cd Strobe	3	x	0.043000	=	0.129000
Total Current Draw:				=	0.404000
Wire Size 14	0	x	4110	=	0
Wire Size 12	1	x	6530	=	6530
Wire Used Circular Mills				=	6530
Distance to End of Circuit:				=	209
Multiplier				=	21.6
Voltage				=	20.4
Multiplier				=	4.166
Percentage Voltage Drop				=	1.164

Worst Case Voltage Drop Calculations
Lydiksen Elementary School - Building C
FAPS Circuit V27

Description	Quantity		Alarm (Amps)		Total Alarm (Amps)
75cd Speaker/Strobe	2	x	0.111000	=	0.222000
15cd Speaker/Strobe	6	x	0.041000	=	0.246000
Total Current Draw:				=	0.468000
Wire Size 14	0	x	4110	=	0
Wire Size 12	1	x	6530	=	6530
Wire Used Circular Mills				=	6530
Distance to End of Circuit:				=	459
Multiplier				=	21.6
Voltage				=	20.4
Multiplier				=	4.166
Percentage Voltage Drop				=	2.960

SCHOOL VOICE EVACUATION - SPEAKER CIRCUIT LOAD CALCULATION

SPEAKER CIRCUIT DESCRIPTION	PANEL	WIRE GAUGE (18, 16, 14, 12)	CIRCUIT VOLTAGE (25 OR 70 VRMS)	APPLIANCES QUANTITIES / TAP VALUES SPEAKER TAP .25 Watt	SPEAKER TAP .5 Watt	SPEAKER TAP 1. Watt	SPEAKER TAP 2. Watt	TOTAL CIRCUIT LOAD (WATTS)	ESTIMATED CIRCUIT LENGTH (FEET)	MAXIMUM -3 dB DROP PER CIRCUIT: ACTUAL WIRE/LOSS (dB)	MAXIMUM ALLOWABLE CKT. LENGTH (FEET)	TOTAL CIRCUIT RESISTANCE (OHMS)
Speaker Circuit A5	DAA2	16	70 vrms	0	20	0	4	20. Watts	959 ft	- 3 db	11282 ft	8.622 Ohms
				Appliance Summary				Total Load (Watts)				
				0	0	0	0	20.00				
				Amplifier Total (Watts)		Total Load (Watts)		Spare Load (Watts)		Spare Percentage		
				70		20.00		50.00		71.43%		

Battery Calculations A#01-101396
Lydiksen Elementary School
Building E

Description	Quantity		Standby (Amps)	Total Standby (Amps)	Alarm (Amps)	Total Alarm (Amps)
EXISTING LOAD	1	x	1.042000	1.042000	6.362000	6.362000
P2CRL75 (Horn/Strobe)	2	x			0.004500	0.143000
Total:				1.042000		6.505000
Battery Calculation	**Time Multiplier**			**Amp Hours**		
Supervisory Hours	24	x	1.042000	= 25.008000		
Alarm Minutes	0.250	x	6.505000	= 1.62625		
Total Amp Hours				= 26.634250		
De-Rating Capacity	1.2	x	26.634250	= 31.961100		
Existing Battery (AH)				= 55		
Battery Spare (AH)				= 28.365750	51.6%	

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STATE
DSA FILE NUMBER 1-32
APPL # 01-119816

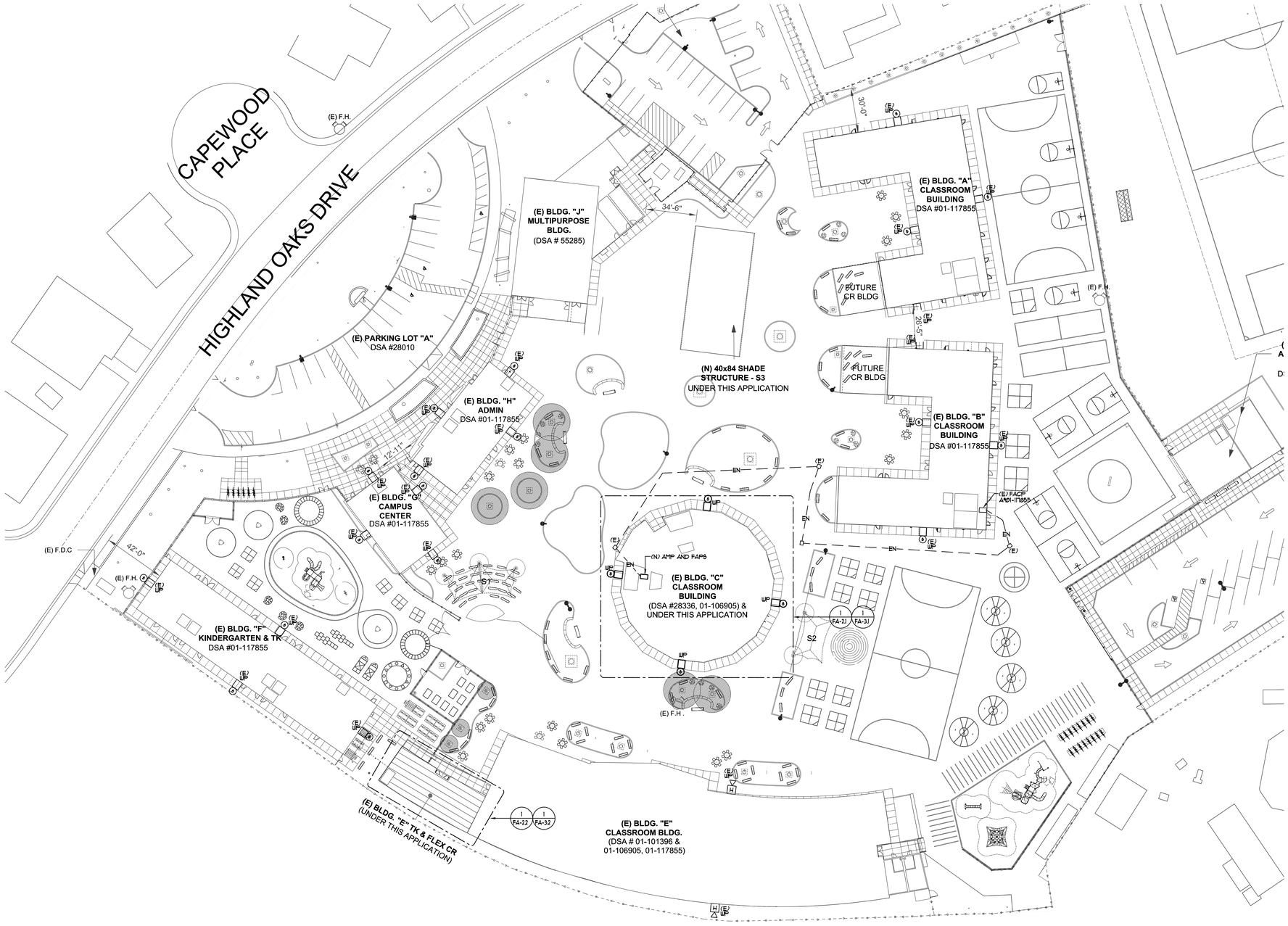
REVISIONS

MILESTONES

SD	06/28/2021
DD	08/23/2021
50% CD	09/20/2021
90% CD	10/14/2021
DSA SUB	10/21/2021

SHEET
FIRE ALARM RISER DIAGRAM & CALCULATIONS

DATE 10/21/2021
JOB # 2020029.02
SHEET # FA-0.2



NEW CONSTRUCTION GENERAL NOTES

1. ELECTRICAL UNDERGROUND SHALL AVOID 5' RADIUS OF TREES TO AVOID ROOT DAMAGE.
2. ELECTRICAL UNDERGROUND SHALL AVOID BIO-RETENTION AREAS AS MARKED ON LANDSCAPING DRAWINGS.
3. CAMPUS CONSTRUCTION AREAS TO BE BUILT SEQUENTIALLY IN PHASES IN COORDINATION WITH DEMOLITION. BUILD SCOPE SEQUENTIAL STEPS SHOWN SIMULTANEOUSLY ON DRAWING WITH PHASE BOUNDARIES SHOWN. BUILDINGS SHALL BE BUILT IN A SEQUENCE RETAINING POWER, COMMUNICATIONS, AND FIRE ALARM AT THE TIME OF DEMOLITION OF OLDER COUNTERPART BUILDINGS. THIS SHALL HAPPEN IN GROUPS OF BUILDINGS RATHER THAN ALL AT ONCE AS DETERMINED BY PHASING.
4. CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES AS NECESSARY PRIOR TO INSTALLATION. UNDERGROUND WORK ELECTRICAL MINIMUM COVERAGE PER NEC CODE.
5. CONTRACTOR SHALL MAINTAIN PROPER CLEARANCES FROM ALL ELECTRICAL EQUIPMENT AND SERVICE CLEARANCES FOR ELECTRICAL EQUIPMENT.

FIRE ALARM SITE PLAN | 1" = 30'-0" | 1

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SHEET
FIRE ALARM SITE PLAN

DATE 10/21/2021
JOB # 2020029.02
SHEET # FA1.0

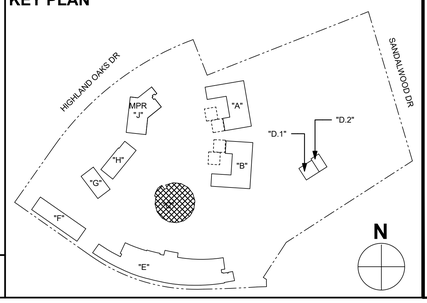
NEW CONSTRUCTION GENERAL NOTES

1. REFER TO GENERAL NOTES AND DEMOLITION NOTES ON SHEET E0.1, FOR ADDITIONAL REQUIREMENTS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL CEILING MOUNTED DEVICES WITH THE ARCHITECTURAL REFLECTED CEILING PLAN.
3. REFER TO FIRE ALARM RISER DIAGRAM FOR ADDITIONAL REQUIREMENTS.

CONSTRUCTION KEYNOTES

1. DISCONNECT AND REMOVE ALL EXISTING WIRING. CONDUIT IN CLASSROOMS C3,C4,C5,C6 MAY BE RE-USED OR REMOVED IF NOT REUSED.
2. DISCONNECT AND REMOVE DEVICE AND WIRING ONLY. BACKBOX TO BE REUSED TO MOUNT NEW DEVICE.

KEY PLAN



FIRE ALARM - BUILDING C - DEMOLITION FLOOR PLAN | 3/16" = 1'-0" | 1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119816 INC:
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DATE: 02/25/2022

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PROJECT
LYDIKSEN ELEMENTARY SCHOOL MODERNIZATION

PLEASANTON UNIFIED SCHOOL DISTRICT

CONSULTANT

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No. E17229
6/30/22
ELECTRICAL
STATE OF CALIFORNIA

STATE
DSA FILE NUMBER 1-32
APPL # 01-119816

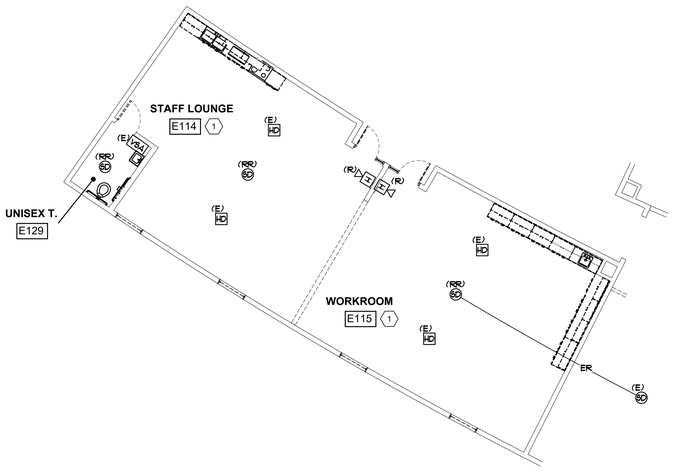
REVISIONS

MILESTONES

SD	06/28/2021
DD	08/23/2021
50% CD	09/20/2021
90% CD	10/14/2021
DSA SUB	10/21/2021

SHEET
BLDG C-DEMOLITION FIRE ALARM PLAN

DATE 10/21/2021
JOB # 2020029.02
SHEET # FA-2.1



FIRE ALARM - BUILDING E - DEMOLITION FLOOR PLAN | 1/8" = 1'-0" | 1

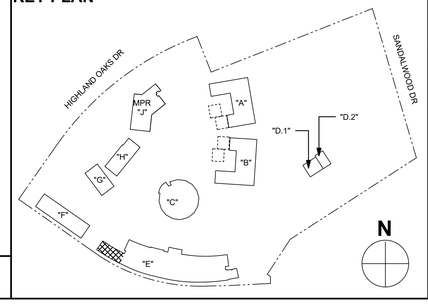
NEW CONSTRUCTION GENERAL NOTES

1. REFER TO GENERAL NOTES, SHEET E0.1, FOR ADDITIONAL REQUIREMENTS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL CEILING MOUNTED DEVICES WITH THE ARCHITECTURAL REFLECTED CEILING PLAN.
3. REFER TO FIRE ALARM RISER DIAGRAM FOR ADDITIONAL REQUIREMENTS.

CONSTRUCTION KEYNOTES

1. DISCONNECT AND REMOVE ALL EXISTING WIRING. CONDUIT IN CLASSROOMS E114 AND E115 SEE FA-2.1.
2. DISCONNECT AND REMOVE DEVICE AND WIRING ONLY. BACKBOX TO BE REUSED TO MOUNT NEW DEVICE.

KEY PLAN



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SHEET

BLDG E-DEMOLITION FIRE ALARM PLAN

DATE 10/21/2021

JOB # 2020029.02

SHEET #

FA-2.2

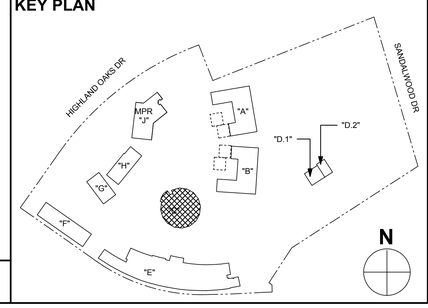
NEW CONSTRUCTION GENERAL NOTES

1. REFER TO GENERAL NOTES, SHEET E0.1, FOR ADDITIONAL REQUIREMENTS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL CEILING MOUNTED DEVICES WITH THE ARCHITECTURAL REFLECTED CEILING PLAN.
3. REFER TO FIRE ALARM RISER DIAGRAM FOR ADDITIONAL REQUIREMENTS.

CONSTRUCTION KEYNOTES

(1) PATH, REPAIR AND REFINISH RESURFACES DISTURBED FOR THE INSTALLATION OF NEW FIRE ALARM DEVICES.

KEY PLAN



FIRE ALARM - BUILDING C - FLOOR PLAN | 3/16" = 1'-0" | 1

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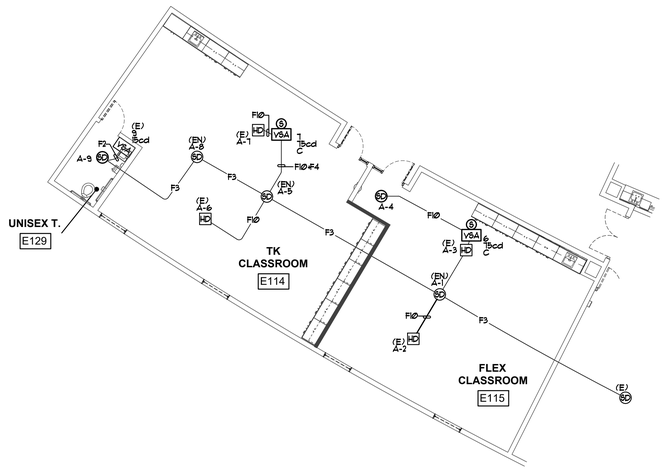
SHEET
BLDG C-NEW FIRE ALARM PLAN

DATE 10/21/2021
JOB # 2020029.02
SHEET # FA-3.1



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NEW CONSTRUCTION GENERAL NOTES

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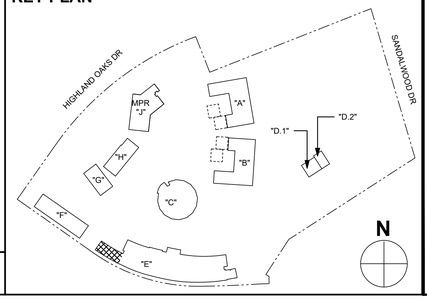
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL CEILING MOUNTED DEVICES WITH THE ARCHITECTURAL REFLECTED CEILING PLAN.
3. REFER TO FIRE ALARM RISER DIAGRAM FOR ADDITIONAL REQUIREMENTS.

CONSTRUCTION KEYNOTES

1 -

KEY PLAN



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BLDG E-NEW FIRE ALARM PLAN

DATE 10/21/2021

JOB # 2020029.02

SHEET #

FA-3.2

FIRE ALARM - BUILDING E - NEW FLOOR PLAN | 1/8" = 1'-0" | 1