

ABBREVIATIONS LIST

Table of abbreviations and their full names, organized by letter (A through Z).

SYMBOLS LEGEND

Table of symbols and their corresponding meanings for materials, framing, and other construction elements.

NOTE

The intent of these drawings and specifications is that the work of the construction is to be in accordance with Title 24, California Code of Regulations.

INSPECTOR

A project inspector employed by the district (owner) and approved by the division of the state architect shall provide continuous inspection of the work.

DEFERRED APPROVAL

NONE

VICINITY MAP



OWNER

SOLANO COMMUNITY COLLEGE DISTRICT
4000 SUISUN VALLEY ROAD
FAIRFIELD, CA 94534

ARCHITECT

HMR ARCHITECTS
2130 21st STREET
SACRAMENTO CA 95818

STRUCTURAL ENGINEER

ATM ENGINEERING
2525 EAST BIDWELL STREET
FOLSOM CA 95630

CIVIL ENGINEER

WARREN CONSULTING ENGINEERS, INC.
1117 WINDFIELD WAY, SUITE 110
EL DORADO HILLS CA 95762

ELECTRICAL ENGINEER

SACRAMENTO ENGINEERING CONSULTANTS
10555 OLD PLACERVILLE ROAD
SACRAMENTO CA 95827

LANDSCAPE ARCHITECT

MTW GROUP
2707 K STREET, SUITE 201
SACRAMENTO CA 95816

BLDG. MANUFACTURER

AMERICAN MODULAR SYSTEMS
787 SPRECKELS AVENUE
MANTECA, CA 95336

PROJECT CODE DATA

Table containing project code numbers, application details, and a list of applicable codes and regulations.

Table detailing building construction type, number of stories, area in square feet, and fire safety requirements.

GENERAL NOTES

- List of general notes providing instructions and requirements for the contractor and owner.

SHEET INDEX

Table listing architectural sheets (A0-A5) and their titles, such as Cover Sheet, Overall Site Plan, etc.

Table listing landscape sheets (L0-L5) and their titles, such as Landscape and Irrigation Demolition Plan, etc.

STRUCTURAL

Table listing structural sheets (S1-S3) and their titles, such as Typical Notes and Schedules, etc.

ELECTRICAL

Table listing electrical sheets (E1-E3) and their titles, such as Electrical Detail, Schedules, Symbols and Notes, etc.

PC 02-11826 BUILDING SHEET INDEX FOR REFERENCE ONLY

Table listing PC sheets (PC01-PC05) and their titles, such as Title Sheet, Sheet Index, etc.

Table listing structural sheets (S0-S3) and their titles, such as Typical Notes and Schedules, etc.

Table listing structural sheets (S1-S3) and their titles, such as Typical Notes and Schedules, etc.

Signature and stamp area for the architect and structural engineer, including dates and license numbers.



HMR ARCHITECTS

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DSA #02-120119
FILE #48-C1

EARLY LEARNING CENTER

SOLANO COMMUNITY COLLEGE
4000 SUISUN VALLEY RD.
FAIRFIELD, CA 94534

SUBMITTAL SET

REVISIONS

Table with columns for NO., DESCRIPTION, and DATE for revisions.

COVER SHEET

MAY 17, 2022

DRAWN BY: MD
CHECKED BY: MD
JOB NO: 21052

A0

8/15/2022 4:39 PM MARIKESO
E:\SOLANO\_C021052\_EARLY LEARNING CENTER BUILDING & SITE IMPROVEMENTS\SCDC\_A0 COVER SHEET.DWG

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 APP: 02-120119 INC:  
 REVIEWED FOR  
 SS  FLS  ACS   
 DATE: 08/23/2022

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**DSA #02-120119**  
**FILE #48-C1**  
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**4000 SUISUN VALLEY RD.**  
**FAIRFIELD, CA 94534**

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**REVISIONS**

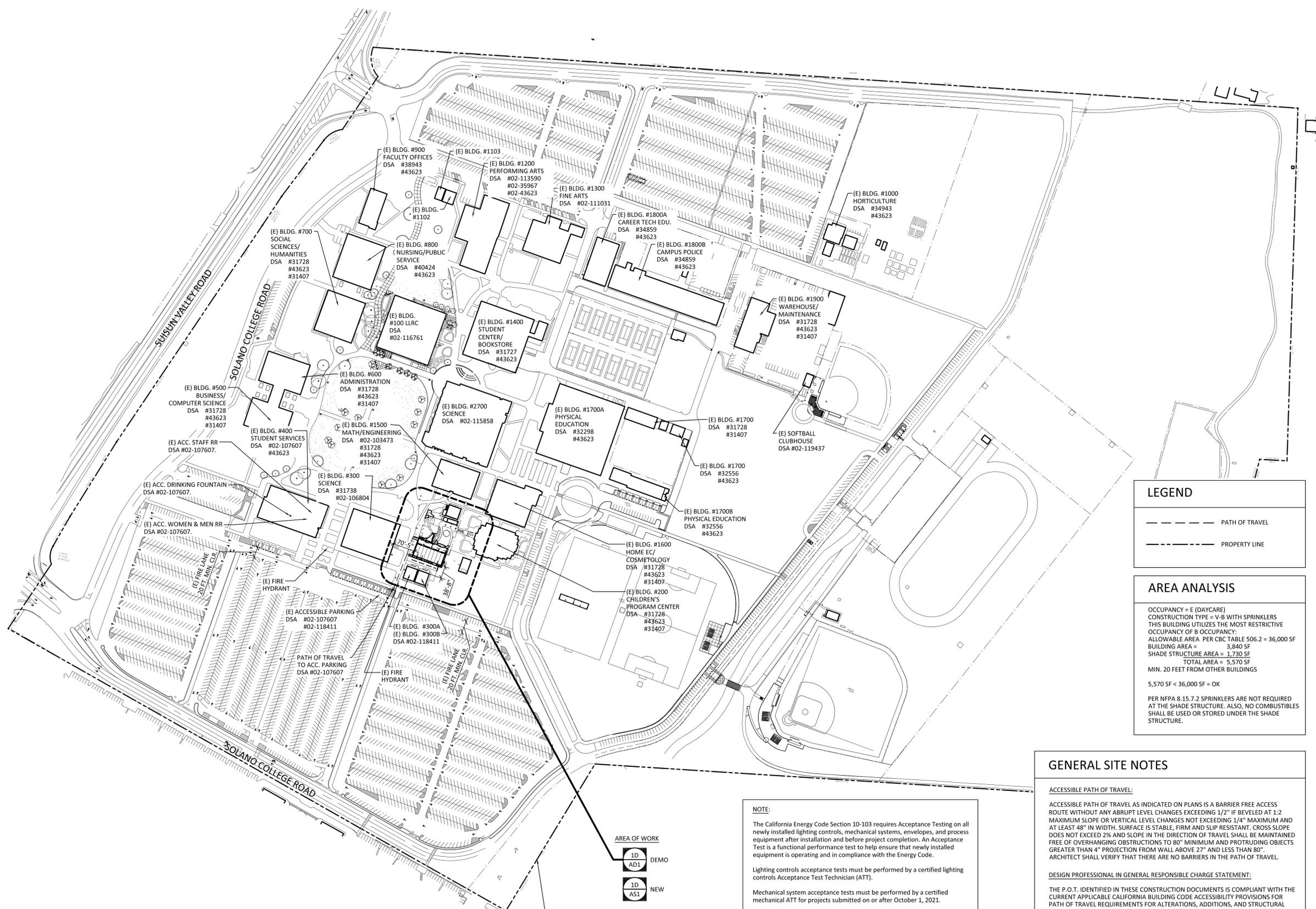
NO.	DESCRIPTION	DATE

**OVERALL SITE PLAN**

MAY 17, 2022

DRAWN BY: MD  
 CHECKED BY: MD  
 FOR NO: 21052

**AS0.1**



**LEGEND**

---	PATH OF TRAVEL
---	PROPERTY LINE

**AREA ANALYSIS**

OCCUPANCY = E (DAYCARE)  
 CONSTRUCTION TYPE = V-B WITH SPRINKLERS  
 THIS BUILDING UTILIZES THE MOST RESTRICTIVE  
 OCCUPANCY OF B OCCUPANCY:  
 ALLOWABLE AREA PER CBC TABLE 506.2 = 36,000 SF  
 BUILDING AREA = 3,840 SF  
 SHADE STRUCTURE AREA = 1,730 SF  
 TOTAL AREA = 5,570 SF  
 MIN. 20 FEET FROM OTHER BUILDINGS

5,570 SF < 36,000 SF = OK

PER NFPA 8.15.7.2 SPRINKLERS ARE NOT REQUIRED AT THE SHADE STRUCTURE. ALSO, NO COMBUSTIBLES SHALL BE USED OR STORED UNDER THE SHADE STRUCTURE.

**GENERAL SITE NOTES**

**ACCESSIBLE PATH OF TRAVEL:**  
 ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLANS IS A BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:2 MAXIMUM SLOPE OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAXIMUM AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM AND SLIP RESISTANT. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL ABOVE 27" AND LESS THAN 80". ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.

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

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

**NOTE:**  
 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.

Lighting controls acceptance tests must be performed by a certified lighting controls Acceptance Test Technician (ATT).

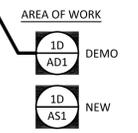
Mechanical system acceptance tests must be performed by a certified mechanical ATT for projects submitted on or after October 1, 2021.

Envelope and process equipment acceptance tests shall be performed by the installing contractor, engineer/architect of record or the owner's agent.

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>.

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.

Project inspectors will collect the forms to confirm that the required Acceptance Tests have been completed.

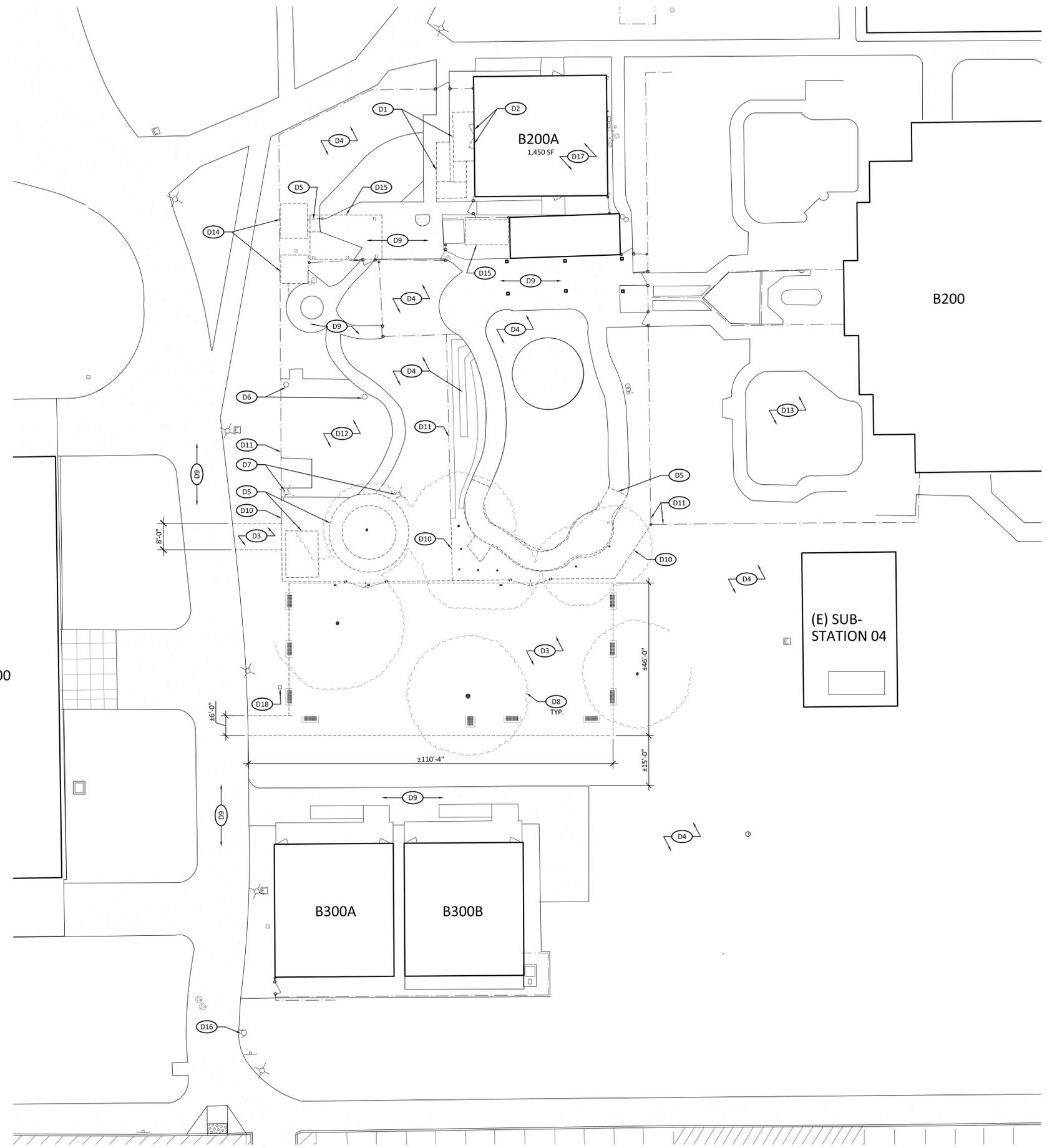


8/15/2022 4:09 PM MARISSA E:\SOLANO COLLEGE EARLY LEARNING CENTER BUILDING & SITE IMPROVEMENTS\CDC\_ASI SITE PLAN.DWG

10 OVERALL SITE PLAN  
 AS0.1



SCALE: 1"=150'

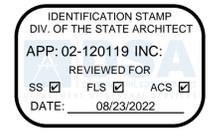


**DEMOLITION KEYNOTES**

- (D1) DEMO (E) CONCRETE RAMP INCLUDING FOUNDATION AND HANDRAILS AND LANDING.
- (D2) SECURE (E) DOOR IN CLOSED POSITION. REMOVE LATCHING HARDWARE AND PROVIDE A COVER PLATE.
- (D3) DEMO (E) TURF AND SCARIFY. SEE C-SHEETS.
- (D4) (E) TURF AND/OR LANDSCAPE TO REMAIN. SEE L-SHEETS
- (D5) DEMO (E) CONCRETE
- (D6) (E) POLE TO REMAIN
- (D7) DEMO (E) POLE INCLUDING FOOTING
- (D8) DEMO (E) TREE. CONSULT WITH ARBORIST. SEE L-SHEETS
- (D9) (E) CONCRETE PAVING TO REMAIN
- (D10) MODIFY (E) FENCING AS REQUIRED FOR (N) WORK
- (D11) (E) FENCING TO REMAIN
- (D12) (E) PLAY EQUIPMENT O/ RUBBER ATTENUATION TO REMAIN
- (D13) (E) PLAY YARD TO REMAIN
- (D14) DEMO (E) SHED INCLUDING CONC PAD
- (D15) DEMO (E) SHADE STRUCTURE INCLUDING POSTS AND FOOTINGS
- (D16) (E) FIRE HYDRANT
- (D17) (E) PORTABLE TO BE USED AS STORAGE
- (D18) (E) IN-GROUND ELECTRICAL BOX TO REMAIN

**LEGEND**

- (E) CONCRETE PAVING TO REMAIN
- (E) LIGHT POLE TO REMAIN
- (E) FENCE TO REMAIN



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**DEMOLITION SITE PLAN**

MAY 17, 2022

DRAWN BY: MO  
CHECKED BY: KD  
JOB NO: 21052

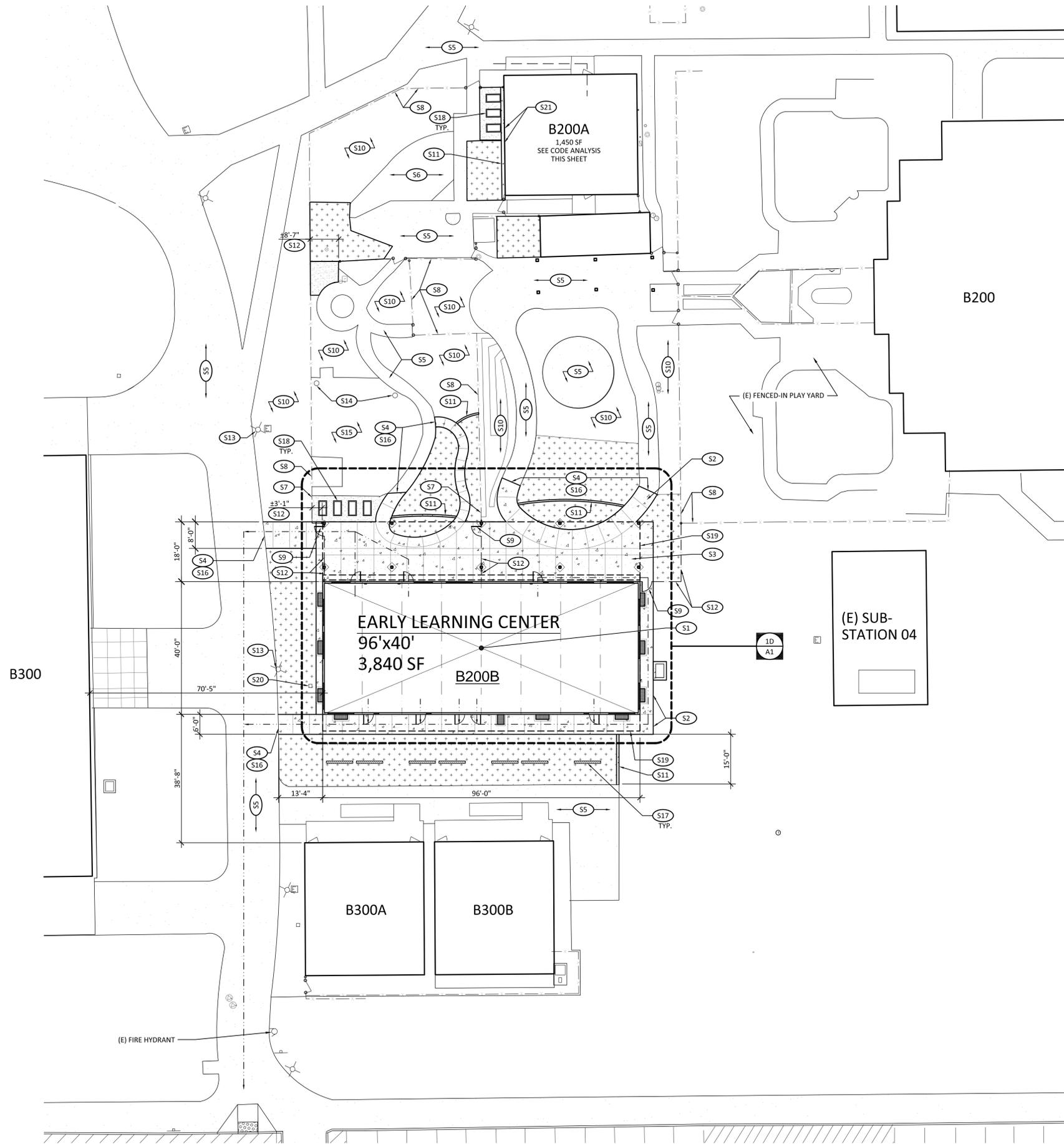
**AD1**

8/15/2022 4:09 PM MARKESO E:\SOLANO COLLEGE EARLY LEARNING CENTER BUILDING & SITE IMPROVEMENTS\CDC\_ASI SITE PLAN.DWG

10 **DEMOLITION SITE PLAN**  
A01



SCALE: 1/16"=1'-0"



**SITE PLAN KEYNOTES**

- (S1) AMS MODULAR BUILDING ON CONCRETE FOUNDATION. SEE ATTACHED PC DRAWINGS 02-118326
- (S2) CONCRETE PAVING. SEE L-SHEETS AND C-SHEETS
- (S3) CONCRETE PAVING AT SHADE STRUCTURE. SEE S-SHEETS
- (S4) FLUSH TRANSITION
- (S5) (E) CONCRETE PAVING TO REMAIN
- (S6) (E) RUBBER ATTENUATION TO REMAIN
- (S7) MODIFY (E) CHAINLINK FENCING AS REQUIRED FOR NEW BLDG. AND SHADE STRUCTURE. ADD END FENCE POST PER DETAIL.
- (S8) (E) CHAINLINK FENCING TO REMAIN
- (S9) 3'-0" WIDE CHAINLINK GATE. SEE (S5) (S9)
- (S10) (E) LANDSCAPE. SEE L-SHEETS
- (S11) CONCRETE MOW STRIP. SEE L-SHEETS AND C-SHEETS
- (S12) CHAINLINK FENCE TO MATCH (E). ADD END POST PER (S3) (S4) (S12)
- (S13) (E) LIGHT POLE
- (S14) (E) STL POLE TO REMAIN
- (S15) (E) PLAY STRUCTURE AND RUBBER ATTENUATION TO REMAIN
- (S16) MATCH (E) GRADE
- (S17) SCREEN ELEMENT. SEE L-SHEETS
- (S18) PLANTER BOXES. SEE L-SHEETS
- (S19) ROOF ABOVE SHOWN DASHED
- (S20) (E) ELECTRICAL AND COMMUNICATIONS BOX TO REMAIN. SEE E-SHEETS
- (S21) SECURE (E) DOOR IN CLOSED POSITION. REMOVE LATCHING HARDWARE AND PROVIDE A COVER PLATE.

**GENERAL NOTES**

1. NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING DEMOLITION WORK HAVE BEEN APPROVED BY DSA.
2. SAWCUT CONCRETE WALKS FOR UNDERGROUND LOW VOLTAGE CABLE. REPLACE CONCRETE WALK TO MATCH (E). COMPACT BASE TO 95% DOWEL NEW TO (E) PER C-SHEETS.

**LEGEND**

DECOMPOSED GRANITE. SEE L-SHEETS	LANDSCAPE. SEE L-SHEETS.
CONCRETE PAVING. SEE L-SHEETS AND C-SHEETS	(E) LIGHT POLE TO REMAIN
(E) CONCRETE PAVING TO REMAIN	(E) FENCE TO REMAIN
	CHAIN LINK FENCE TO MATCH (E) ADJACENT
	PATH OF EGRESS FROM BUILDING EXITS TO PUBLIC WAY

**BLDG B200A: AREA / OCCUPANT LOAD ANALYSIS**

PER DSA IR A-26 SECTION 1.1, STORAGE AREAS SHALL HAVE AN OCCUPANT LOAD FACTOR OF 300.

AREA/USE	S.F. (NET)	LOAD FACTOR	OCC LOAD TOTAL
B200A	1,450	1/300	5

**BLDG. B200A: EXITING**

PER CBC 2019 1006.2.1, MINIMUM EXITS REQUIRED = 1  
MIN. DOOR WIDTH REQUIRED = 32" CLEAR

EXITS PROVIDED = 2		PATH OF EGRESS
TOTAL EXITING WIDTH REQUIRED = OCCUPANT LOAD MULTIPLIED BY 0.2 = 5 x 0.2 = 1" REQUIRED		
TOTAL EXITING WIDTH PROVIDED = 2 EXITS @ 3'-0" TOTAL = 72" CLEAR		
		= 72" > 1" = OK

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ENLARGED SITE PLAN

MAY 17, 2022

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JOB NO: 21052

**AS1**

8/15/2022 4:08 PM MARISSA ELASOLANO CCL21052 EARLY LEARNING CENTER BUILDING & SITE IMPROVEMENTS.CDC\_A51 SITE PLAN.DWG

10 ENLARGED SITE PLAN



SCALE: 1/16"=1'-0"

**AREA / OCCUPANT LOAD ANALYSIS**

AREA/USE	S.F. (NET)	LOAD FACTOR	OCC LOAD TOTAL	OCC TYPE
CLASSROOM 1	515	1/35 (DAYCARE)	15	E
CLASSROOM 2	545	1/35 (DAYCARE)	16	E
OFFICE 1	110	1/150	1	B
STORAGE 1	65	1/300	1	B
CHILD RR 1	75	1/150	1	B
KIT/WORK RM	375	1/150	3	B
STAFF RM	105	1/150	1	B
HALL	120	1/150	1	B
LAUNDRY RM	45	1/150	1	B
IT CLOSET	25	1/300	1	B
STAFF RR	70	1/150	1	B
FIRE RISER	15	1/300	1	B
ELEC RM	25	1/300	1	B
CLASSROOM 3	1140	1/35 (DAYCARE)	33	E
OFFICE 2	110	1/150	1	B
STORAGE 2	130	1/300	1	B
CHILD RR 2	65	1/150	1	B
SHADE STRUCTURE	1,730	1/35 (DAYCARE)	50	E
<b>TOTAL</b>			<b>130</b>	

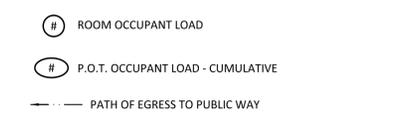
**EXITING**

PER CBC 2019 1006.2.1, MINIMUM EXITS REQUIRED = 2  
MIN. DOOR WIDTH REQUIRED = 32" CLEAR

EXITS PROVIDED = 6

TOTAL EXITING WIDTH REQUIRED	= OCCUPANT LOAD MULTIPLIED BY 0.2
	= 80 x 0.2 = 16" REQUIRED
TOTAL EXITING WIDTH PROVIDED	= 6 EXITS @ 3'-0"
	TOTAL = 216" CLEAR

= 216" > 16" = OK



**GENERAL NOTES**

- FOR SLAB JOINT PATTERN AND SLOPES SEE S-SHEETS.
- STEEL COLUMNS AND BEAMS SHALL ARRIVE ONSITE PRIMED READY FOR FIELD PAINTING.
- PER NFPA 8.15.7.2 SPRINKLERS ARE NOT REQUIRED AT THE SHADE STRUCTURE. ALSO, NO COMBUSTIBLES SHALL BE USED OR STORED UNDER THE SHADE STRUCTURE.

**LEGEND**

# DOOR PER MANUF. GC RESPONSIBLE FOR DOOR HARDWARE. SEE SPECS

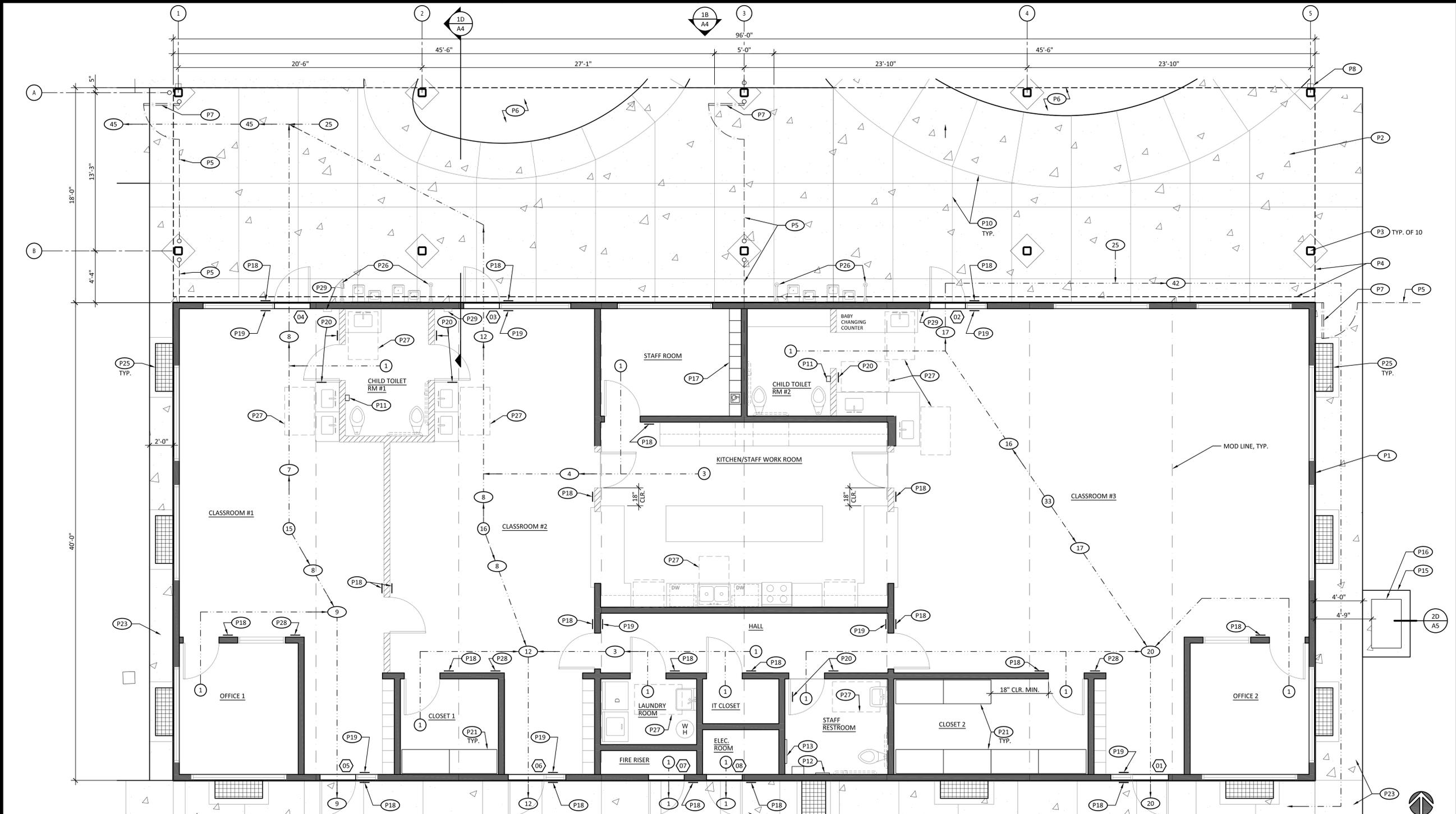
**ACCESSIBLE LOCKER ANALYSIS**

9 LOCKERS PROVIDED IN STAFF ROOM.  
PER CBC 11B-222, AT LEAST 5% SHALL BE ACCESSIBLE.  
REQUIRED = 5% OF 9 = 1  
PROVIDED = 1 ACCESSIBLE LOCKER

ISA SYMBOL INDICATES ACCESSIBLE LOCKER

**PLAN KEYNOTES**

- P1 AMS MODULAR BUILDING ON CONCRETE FOUNDATION. SEE ATTACHED PC DRAWINGS
- P2 6" CONCRETE SLAB. SEE S-SHEETS
- P3 HSS 6x6 COLUMNS - PAINT. SEE S-SHEETS
- P4 OUTLINE OF SHADE STRUCTURE ROOF ABOVE SHOWN DASHED
- P5 CHAINLINK FENCING. SEE 3D/4D/5D
- P6 LANDSCAPE. SEE L-SHEETS
- P7 CHAINLINK GATE WITH PANIC HARDWARE. SEE 5D/A5
- P8 DOWNSPOUT AT HSS COLUMN. CONNECT TO UNDERGROUND DRAINAGE SYSTEM. SEE C-SHEETS AND 2C/A5
- P9 CONCRETE PAVING. SEE L-SHEETS AND C-SHEETS
- P10 SLAB JOINT PATTERN. SEE S-SHEETS AND L-SHEETS
- P11 SURFACE MOUNTED TOILET PAPER HOLDER. BLKG BY MANUF. SEE SPECS. MOUNT AT 14" AFF.
- P12 SURFACE MOUNTED TOILET SEAT COVER DISPENSER. MOUNT AT 40" AFF. BLKG BY MANUF. SEE SPECS
- P13 SURFACE MOUNTED HOOK. MOUNT AT 48" AFF. BLKG BY MANUF. SEE SPECS
- P14 SURFACE MOUNTED TOILET PAPER HOLDER. BLKG BY MANUF. SEE SPECS. MOUNT AT 14"-17" AFF
- P15 CONCRETE HOUSEKEEPING PAD
- P16 CONDENSING UNIT. SEE PC PLANS
- P17 SINGLE TIER METAL LOCKERS WITH FRONT BASE PANELS. SEE SPECS AND 4B/A5
- P18 ROOM IDENTIFICATION SIGN PER DISTRICT STANDARDS. SEE SPECS. FOR MOUNTING HEIGHTS, SEE PC PLANS.
- P19 EXIT SIGN PER DISTRICT STANDARDS. SEE SPECS. FOR MOUNTING HEIGHTS, SEE PC PLANS.
- P20 ACCESSIBLE RESTROOM SIGN PER DISTRICT STANDARDS. SEE SPECS. FOR MOUNTING HEIGHTS, SEE PC PLANS.
- P21 48"W x 72"H x 24"D, 5-SHELF HEAVY DUTY BOLTLESS SHELVING, EDLSAL MODEL HUR2448. BLKG BY MANUF. SEE ALSO 3A/A5, 3B/A5
- P22 SURFACE MOUNTED SHELF. BLKG BY MANUF. SEE SPECS
- P23 CONCRETE PER C-SHEETS AND SITE PLAN
- P24 FOUNDATION ACCESS WELL WITH ACCESSIBLE GRATES PER MANUF
- P25 FOUNDATION VENT WITH ACCESSIBLE GRATES PER MANUF
- P26 GUARDRAIL AT DRINKING FOUNTAIN. SEE 2B/A5
- P27 30x48 CLR SPACE
- P28 ALS SIGNAGE PER DISTRICT STANDARDS. SEE SPECS. FOR MOUNTING HEIGHTS, SEE PC PLANS.
- P29 FIRE EXTINGUISHER PER PC PLANS. FIRE EXTINGUISHER IS RECHARGEABLE HEAVY DUTY UL RATED: 3-A: 40-B:C



10 A1 FLOOR PLAN (40'x96' BLDG)

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

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FLOOR PLAN

MAY 17, 2022

DRAWN BY: MD  
CHECKED BY: MD  
JOB NO: 21052

**A1**

8/15/2022 12:45 PM, MARIE ESCOBAR, C021052 EARLY LEARNING CENTER BUILDING & SITE IMPROVEMENTS/SC0C\_A1 FLOOR PLAN.DWG

**GENERAL NOTES**

1. STEEL COLUMNS AND BEAMS SHALL ARRIVE ONSITE PRIMED READY FOR FIELD PAINTING.

**REFLECTED CEILING LEGEND**

- SURFACE MOUNTED LED LIGHT FIXTURE. SEE E-SHEETS

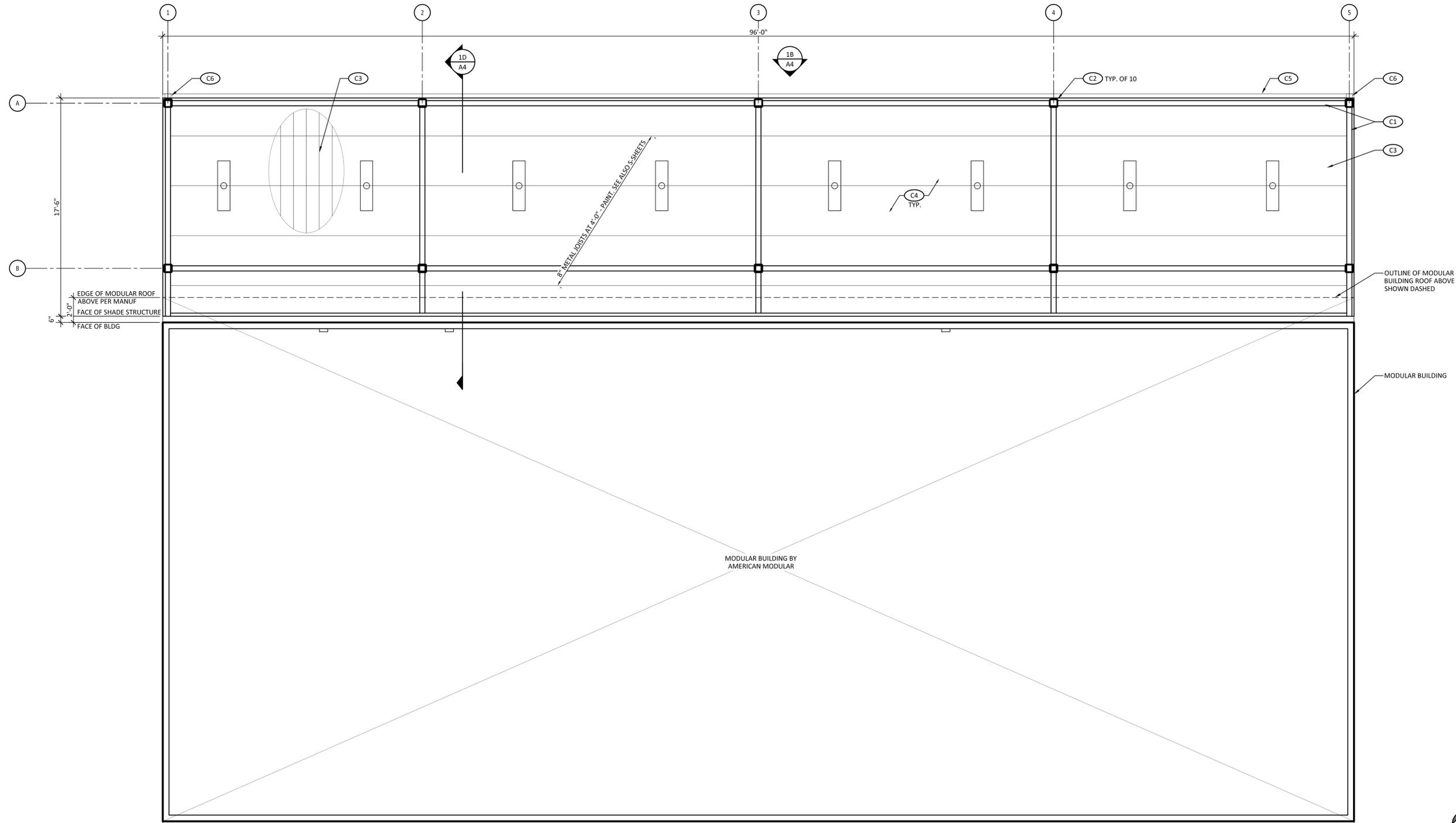
**REFLECTED CEILING PLAN KEYNOTES**

- C1 STEEL BEAM. PAINT. SEE S-SHEETS
- C2 HSS COLUMNS - PAINT. SEE S-SHEETS
- C3 20 GA. CLASS A MINI-V-BEAM METAL ROOF DECK O/ METAL JOISTS PER S-SHEETS.
- C4 UNDERSIDE OF METAL DECK. PAINT. SEE S-SHEETS
- C5 24 GA SHEET METAL GUTTER WITH COATING TO MATCH ROOFING
- C6 DOWNSPOUT AT HSS COLUMNS CONNECT TO UNDERGROUND. SEE C-SHEETS



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REFLECTED CEILING PLAN

MAY 17, 2022

DRAWN BY: MD  
CHECKED BY: MD  
JOB NO: 21052

**A2**

8/15/2022 12:52 PM MARISSA ESCOBAR C:\21052 EARLY LEARNING CENTER BUILDING & SITE IMPROVEMENTS\CDC\_A2 REFLECTED CEILING PLAN.DWG

**REFLECTED CEILING PLAN AT SHADE STRUCTURE**



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

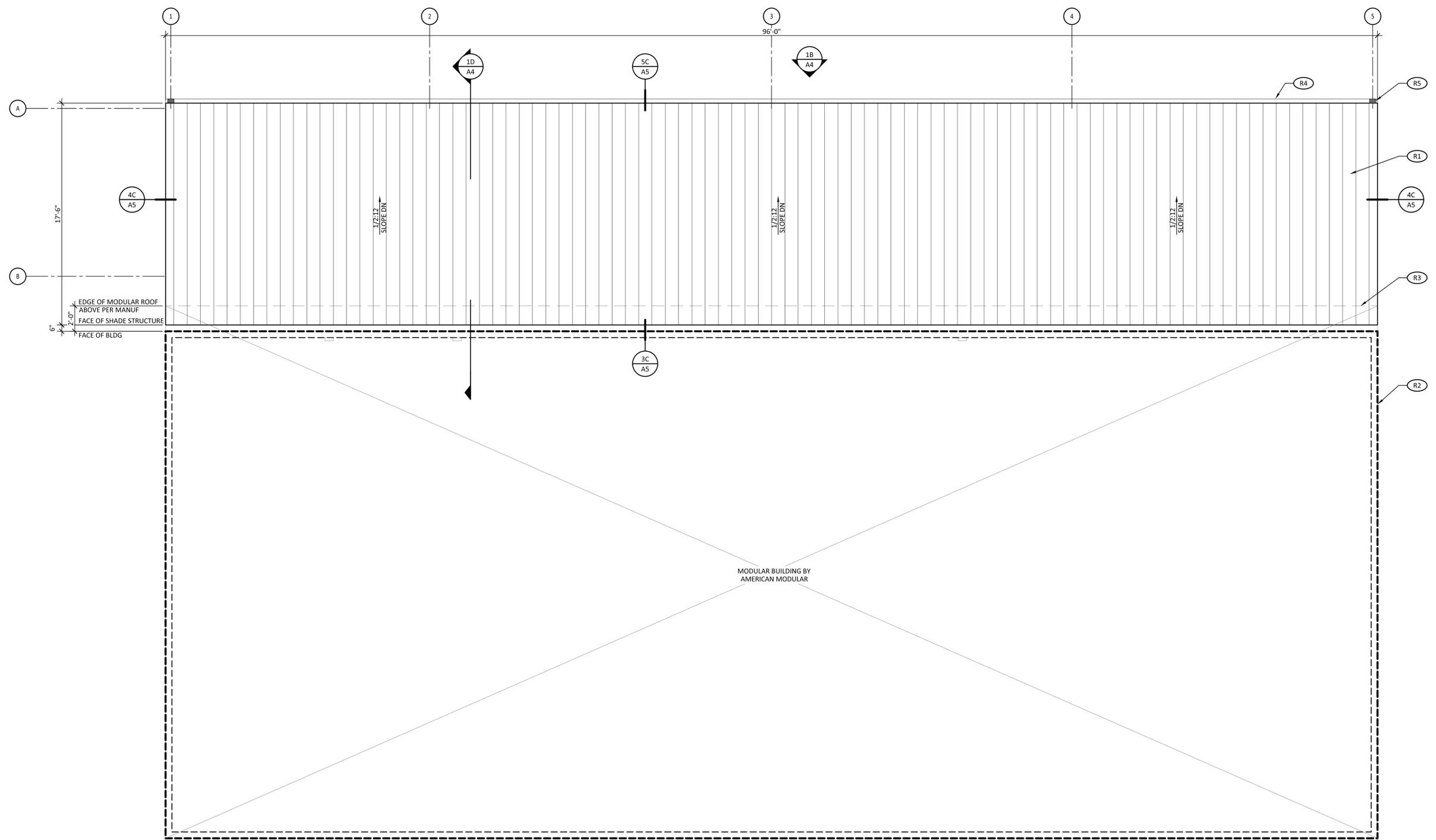
**ROOF PLAN KEYNOTES**

- (R1) 20 GA. CLASS A MINI-V-BEAM METAL ROOF DECK IN ZINCALUME PLUS FINISH O/ METAL JOISTS PER S-SHEETS
- (R2) OUTLINE MODULAR BUILDING WALLS BELOW SHOWN DASHED, TYP
- (R3) OUTLINE OF MODULAR BUILDING ROOF ABOVE SHOWN DASHED
- (R4) CONT. 24 GA METAL GUTTER WITH WELDED SEAMS. COAT TO MATCH METAL ROOFING
- (R5) STL SCHED 40 DOWNSPOUT TYP AT ENDS. DOWNSPOUT TO SWITCH BACK TO COLUMN LINE AND CONNECT TO UNDERGROUND. PAINT. SEE C-SHEETS AND (2C/A5)

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 Sacramento, CA 95818  
 T 916 736 2724



DSA #02-120119  
 FILE #48-C1  
**EARLY LEARNING CENTER**

SOLANO COMMUNITY COLLEGE  
 4000 SUISUN VALLEY RD.  
 FAIRFIELD, CA 94534

**SUBMITTAL SET**

REVISIONS

NO.	DESCRIPTION	DATE

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ROOF PLAN

MAY 17, 2022

DRAWN BY:	MD
CHECKED BY:	KD
FOR NO.	21052

**A3**



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

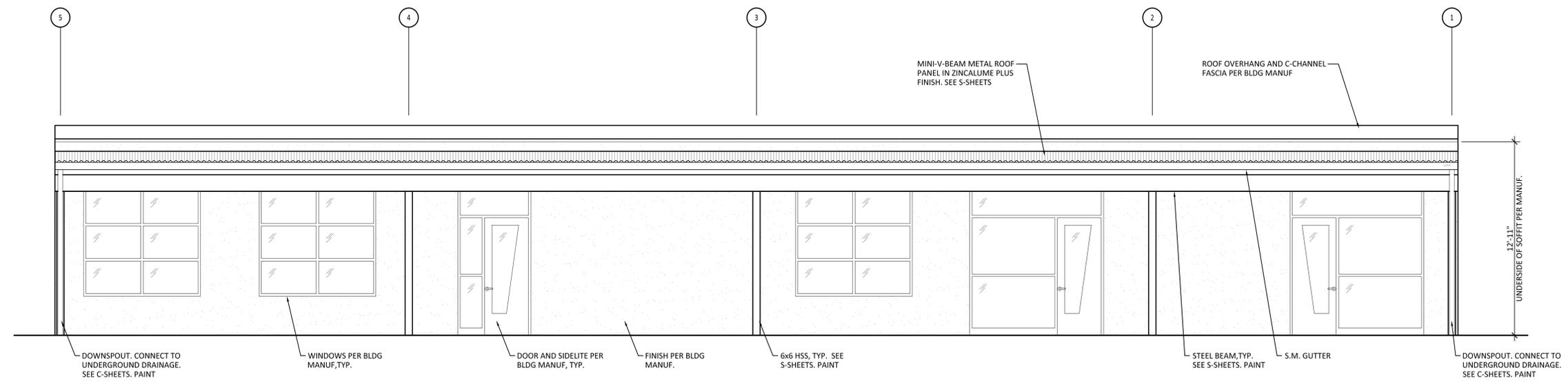
8/15/2022 12:57 PM, MARIE EASOLANO C021052 EARLY LEARNING CENTER BUILDING & SITE IMPROVEMENTS\SCDC\_A3 ROOF PLAN.DWG

10 ROOF PLAN AT SHADE STRUCTURE  
 A3

IDENTIFICATION STAMP  
 DIV. OF THE STATE ARCHITECT  
 APP: 02-120119 INC:  
 REVIEWED FOR  
 SS  FLS  ACS   
 DATE: 08/23/2022

**HMR ARCHITECTS**

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18  
A4  
ELEVATION

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

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SUBMITTAL SET

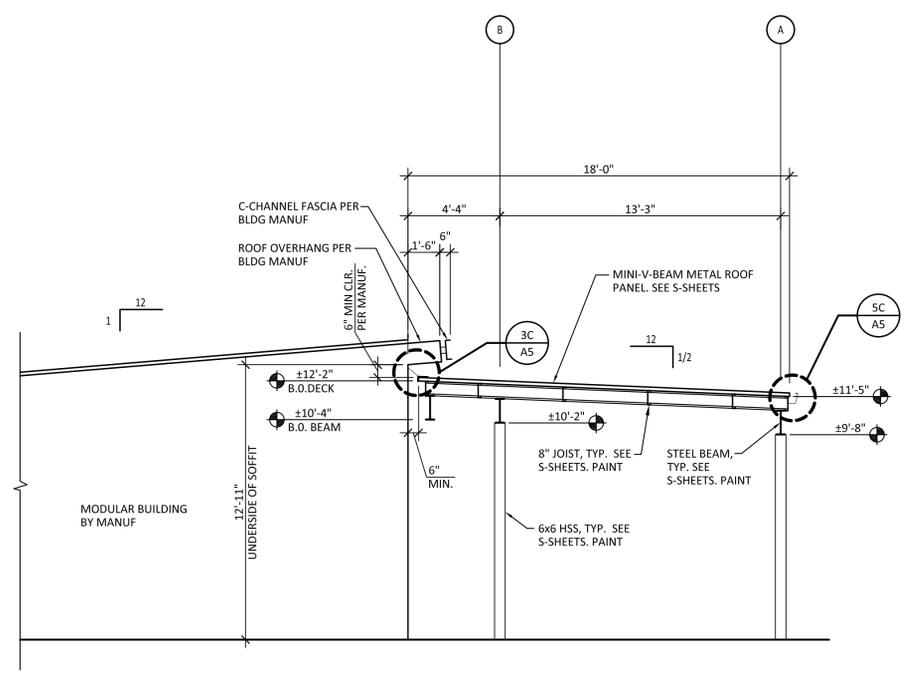
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ELEVATION AND SECTION

MAY 17, 2022



10  
A4  
SECTION

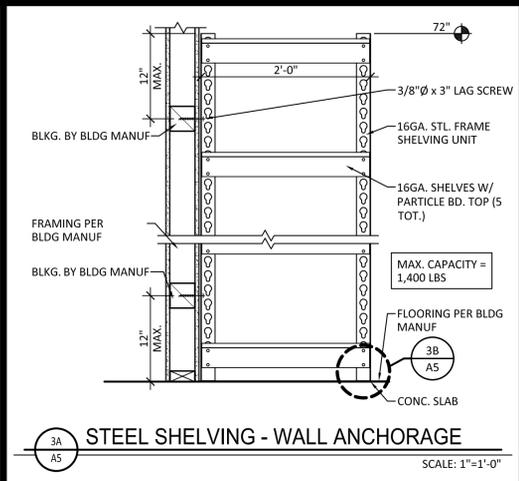
SCALE: 1/4"=1'-0"

DRAWN BY:  
 MD  
 CHECKED BY:  
 MD  
 TOR NO:  
 21052

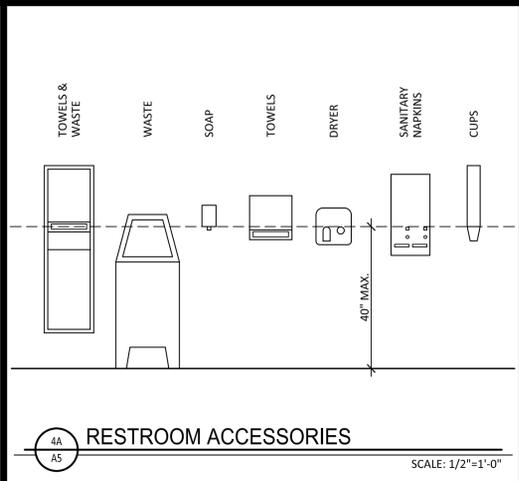
A4

8/15/2022 1:06 PM MARIE ELASOLANO CC:21052 EARLY LEARNING CENTER BUILDING & SITE IMPROVEMENTS:CCDC\_A4 ELEVATION AND SECTION.DWG

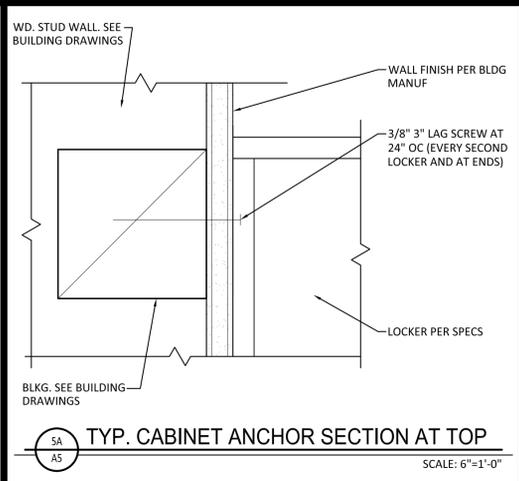
8/15/2022 4:06 PM MARK ESOLANO CCL21052 EARLY LEARNING CENTER BUILDING & SITE IMPROVEMENTS.CDC\_A5 DETAILS.DWG



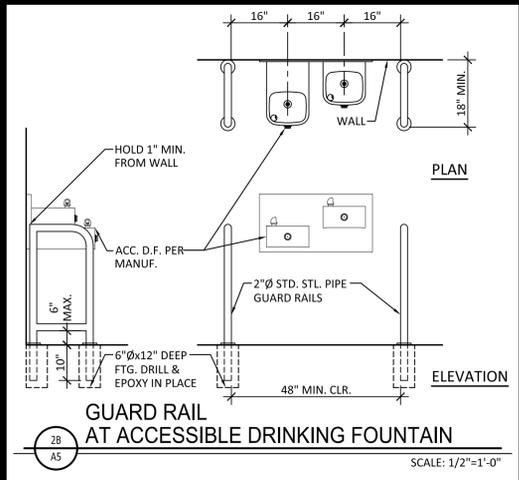
**3A STEEL SHELVING - WALL ANCHORAGE**  
SCALE: 1/2"=1'-0"



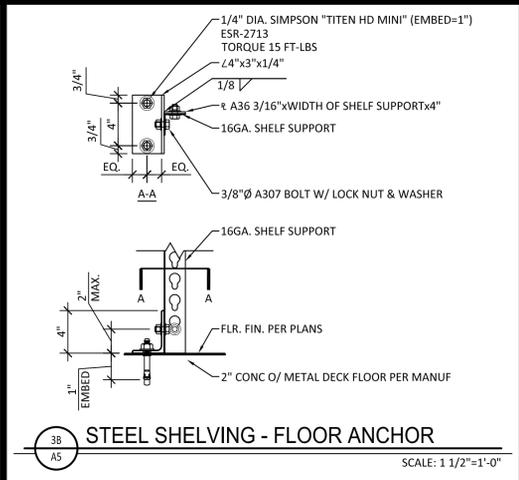
**4A RESTROOM ACCESSORIES**  
SCALE: 1/2"=1'-0"



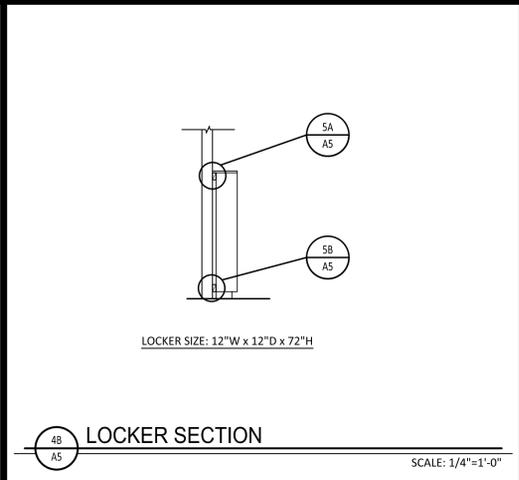
**5A TYP. CABINET ANCHOR SECTION AT TOP**  
SCALE: 6"=1'-0"



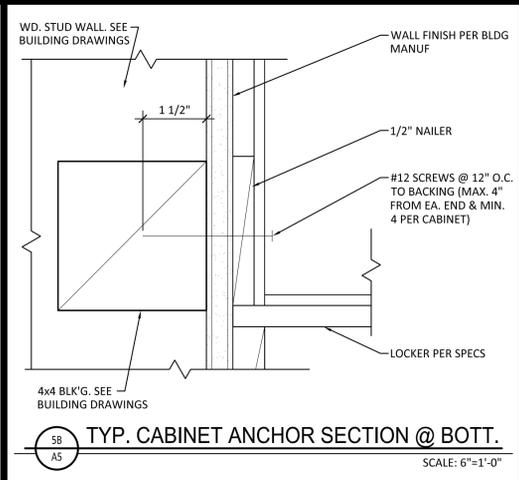
**2B GUARD RAIL AT ACCESSIBLE DRINKING FOUNTAIN**  
SCALE: 1/2"=1'-0"



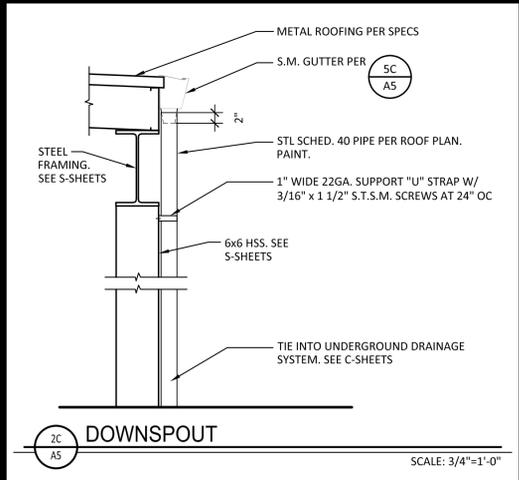
**3B STEEL SHELVING - FLOOR ANCHOR**  
SCALE: 1/2"=1'-0"



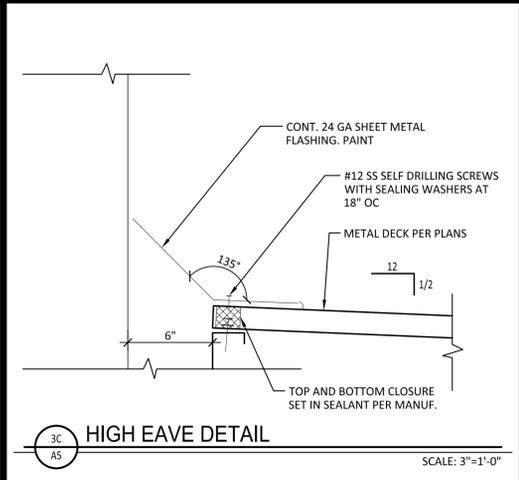
**4B LOCKER SECTION**  
SCALE: 1/4"=1'-0"



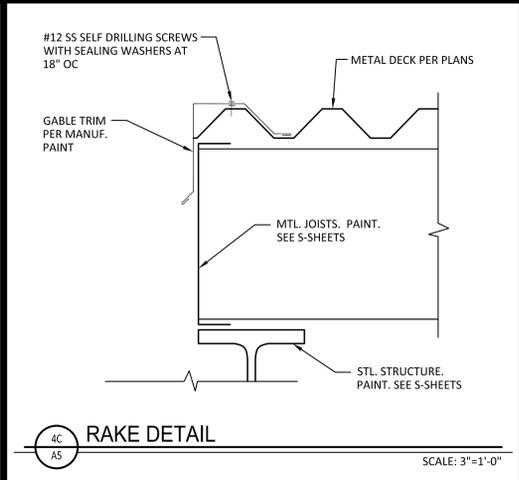
**5B TYP. CABINET ANCHOR SECTION @ BOTT.**  
SCALE: 6"=1'-0"



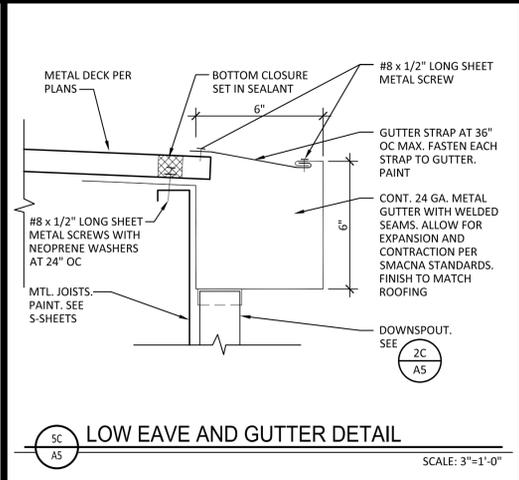
**2C DOWNSPOUT**  
SCALE: 3/4"=1'-0"



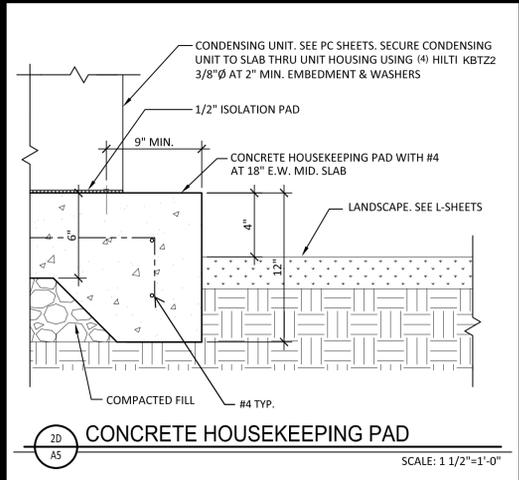
**3C HIGH EAVE DETAIL**  
SCALE: 3"=1'-0"



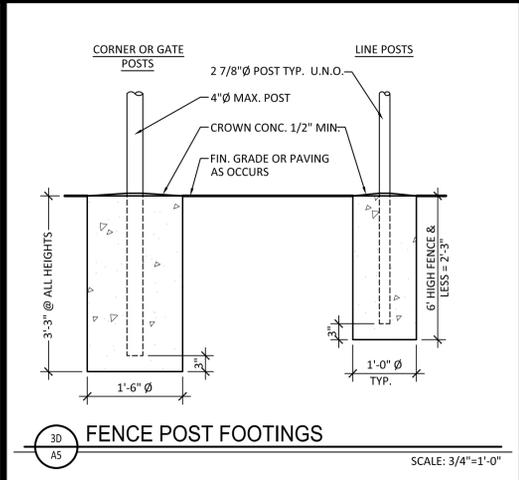
**4C RAKE DETAIL**  
SCALE: 3"=1'-0"



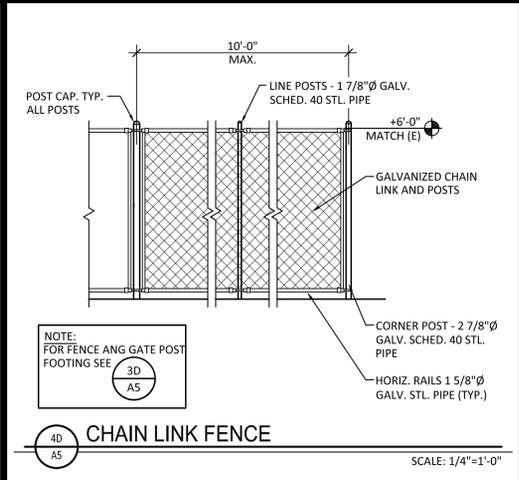
**5C LOW EAVE AND GUTTER DETAIL**  
SCALE: 3"=1'-0"



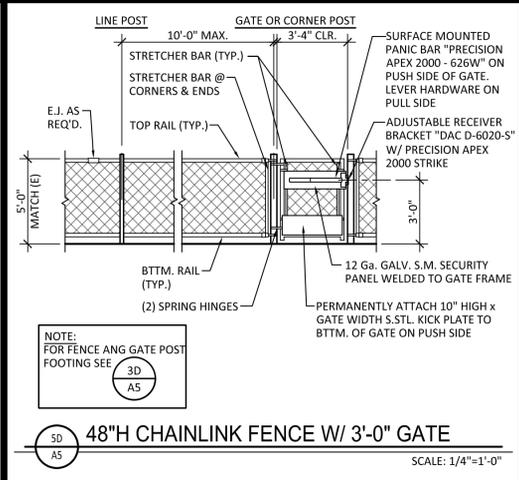
**2D CONCRETE HOUSEKEEPING PAD**  
SCALE: 1/2"=1'-0"



**3D FENCE POST FOOTINGS**  
SCALE: 3/4"=1'-0"



**4D CHAIN LINK FENCE**  
SCALE: 1/4"=1'-0"



**5D 48\"/>**

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DETAILS

MAY 17, 2022

DRAWN BY: MO  
CHECKED BY: KD  
JOB NO: 21052

A5

**SYMBOLS LEGEND TOPOGRAPHIC**

	= PROPERTY LINE
	= CENTERLINE
	= EASEMENT
	= PROPERTY CORNER FOUND AS NOTED
	= PROPERTY CORNER NOTHING FOUND OR SET
	= TEMPORARY BENCHMARK (SEE TBM LIST FOR INFO)
	= SWALE OR DRAINAGE FLOW
	= DRAINAGE FLOW
	= FENCE (TYPE NOTED)
	= TREE (SIZE/TYPE INDICATED)
	= SLOPE
	= CONTOUR
	= CONCRETE SURFACE
	= EDGE OF ASPHALT
	= EDGE OF BUILDING
	= SIGN
	= POST OR BOLLARD
	= GROUND ELEVATION
	= HARD SURFACE ELEVATION

**EXISTING UTILITIES**

	= STORM DRAIN LINE (SIZE & DIRECTION OF FLOW)
	= STORM DRAIN LINE (RECORD INFORMATION)
	= STORM DRAIN LINE (UNDERGROUND LOCATING)
	= STORM DRAIN MANHOLE
	= STORM DRAIN CLEANOUT
	= DROP INLET
	= AREA DRAIN
	= RAIN WATER LEADER
	= DOWNSPOUT
	= SANITARY SEWER LINE (SIZE & DIRECTION OF FLOW)
	= SANITARY SEWER LINE (RECORD INFORMATION)
	= SANITARY SEWER LINE (UNDERGROUND LOCATING)
	= SANITARY SEWER MANHOLE
	= SANITARY SEWER CLEANOUT
	= WATER LINE (SIZE INDICATED)
	= WATER LINE (RECORD INFORMATION)
	= WATER LINE (UNDERGROUND LOCATING)
	= WATER MANHOLE
	= WATER VALVE
	= WATER METER
	= WATER BOX
	= IRRIGATION CONTROL VALVE
	= FIRE HYDRANT
	= BACKFLOW PREVENTER
	= SPRINKLER
	= HOSE BIBB
	= OVERHEAD ELECTRIC LINE
	= UNDERGROUND ELECTRIC LINE
	= UNDERGROUND ELECTRIC LINE (RECORD INFORMATION)
	= UNDERGROUND ELECTRIC LINE (UNDERGROUND LOCATING)
	= ELECTRIC MANHOLE
	= UTILITY POLE (WITH GUY WIRE)
	= ELECTRIC METER
	= ELECTRIC BOX
	= STREET LIGHTING BOX
	= LIGHT STANDARD
	= SIGNAL LIGHT
	= FLOOD LIGHT
	= ELECTRICAL OUTLET
	= GAS LINE (SIZE INDICATED)
	= GAS LINE (RECORD INFORMATION)
	= GAS LINE (UNDERGROUND LOCATING)
	= GAS MANHOLE
	= GAS VALVE
	= GAS METER
	= TELEPHONE LINE
	= TELEPHONE LINE (RECORD INFORMATION)
	= TELEPHONE LINE (UNDERGROUND LOCATING)
	= STORM DRAIN BOX
	= TRAFFIC SIGNAL BOX

**ABBREVIATIONS TOPOGRAPHIC**

ACC	ACCESSIBLE
ACU	AIR CONDITIONING UNIT
AD	AREA DRAIN
APN	ASSESSOR'S PARCEL NUMBER
APP	APPARATUS
BSALL	BASKETBALL POLE
BCM	BRASS CAP MONUMENT
BFP	BACK FLOW PREVENTER
BL	BLOCK
BLDG	BUILDING
COL	BOLLARD
BOV	BLOW-OFF VALVE
BR	BRICK
B.W.F.	BARBED WIRE FENCE
C	COMMUNICATION
C/L	CENTERLINE
CATV	CABLE TELEVISION
CFP	CAPPED IRON PIPE
C.L.F.	CORRUGATED METAL PIPE
CMP	CLEANOUT
CO	COLUMN
COL	CONCRETE
CONC.	CONCRETE
COVD.	CONDENSATE
CPF	CONTROL POINT FOUND
CPS	CONTROL POINT SET
CS	CONCRETE SURFACE
D	DEPTH
DF	DRINKING FOUNTAIN
DG	DECOMPOSED GRANITE
DI	DROP INLET
DIA	DIAMETER
DRAWY	DRIVEWAY
DS	DOWNSPOUT
DWG	DRAWING
E	ELECTRIC
EP	EDGE OF PAVEMENT
ESMT	EASEMENT
FA	FIRE ALARM
FDC	FIRE DEPARTMENT CONNECTION
FFE	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
FL	FLOWLINE
FO	FIBER OPTIC
FS	FIRE SERVICE
G	GAS
GB	GRADE BREAK
GR	GRATE
GRB	GROUND ROD BOX
GRD	GROUND ROD
GV	GATE VALVE
H	HOSE BIBB
HBD	HEADER BOARD
HP	HIGH PRESSURE
HR	HANDRAIL
HVE	HIGH VOLTAGE ELECTRIC
HWF	HOG WIRE FENCE
IC	IN-CONCRETE
ICV	IRRIGATION CONTROL VALVE
INV	PIPE INVERT ELEVATION
IRR	IRRIGATION
JP	JOINT UTILITY POLE
JT	JOINT TRENCH
LANDG	LANDING
LVE	LOW VOLTAGE ELECTRIC
M	METAL
MH	MANHOLE
MS	MOW STRIP
MSC	METAL STORAGE CONTAINER
NTS	NOT TO SCALE
OH	OVERHEAD
OHANG	OVERHANG
OIP	OPEN IRON PIPE
OSPH	OLD STEEL POST HOLE
P/L	PROPERTY LINE
PA	PARKING AREA
PB	PARKING BUMPER
PH	POSTHOLE
PIV	POST INDICATOR VALVE
PKG	PARKING
PRKG	PARKING
PUE	PUBLIC UTILITY EASEMENT
PV	PAVERS
PVC	POLYVINYL CHLORIDE
R	RUBBER
RG	ROLLING GATE
R	RUBBER
RM	MANHOLE RIM ELEVATION
ROW	RIGHT OF WAY
RWD	REDWOOD
RWL	RAIN WATER LEADER
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SIG	SIGNAL
SL	STREET LIGHT
SLB	STREET LIGHT BOX
SS	SANITARY SEWER
SSCO	SANITARY SEWER CLEANOUT
SSMH	SANITARY SEWER MANHOLE
STL	STEEL
T	TELEPHONE
TBALL	TETHER BALL POLE
TBM	TEMPORARY BENCHMARK
TC	TOP OF CURB
TOW	TOP OF WALL
TRW	TOP OF RETAINING WALL
UG	UNDERGROUND
UNK	UNKNOWN
V	VENT
VBALL	VOLLEYBALL
W	WATER
W/W	WITH
WD	WOOD
WF	WOOD FENCE
W.I.F.	WROUGHT IRON FENCE
W.R.F.	WOOD RAIL FENCE
XF	TRANSFORMER
XWALK	CROSSWALK

**SYMBOLS LEGEND**

NOT ALL SYMBOLS MAY BE USED ON THESE PLANS.

**PROPOSED GRADING & DRAINAGE SYMBOLS:**

	STORM DRAIN LINE (SIZE AND FLOW SHOWN)
	STORM DRAIN MANHOLE (SDMH)
	CATCH BASIN (CB)
	DROP INLET (DI)
	AREA DRAIN (AD)
	PLANTER DRAIN (PD) OR FLOOR DRAIN (FD)
	STORM DRAIN CLEANOUT
	ELEVATION
	FINISHED FLOOR ELEVATION
	BUILDING PAD ELEVATION
	CONCRETE SIDEWALK
	GRADED DIRECTION FOR DRAINAGE FLOW
	SWALE
	SLOPE
	TREE TO BE REMOVED
	RETAINING WALL

**PROPOSED SANITARY SEWER SYMBOLS:**

	SANITARY SEWER LINE (SIZE AND FLOW SHOWN)
	SANITARY SEWER MANHOLE (SSMH)
	SEWER CLEANOUT FLUSHER BRANCH

**PROPOSED WATER SYMBOLS:**

	WATER LINE & SIZE
	FIRE LINE & SIZE
	DOMESTIC WATER LINE & SIZE
	RECLAIMED WATER LINE & SIZE
	IRRIGATION SERVICE LINE & SIZE
	NON POTABLE WATER LINE & SIZE
	FIRE SPRINKLER SERVICE LINE & SIZE
	GATE VALVE
	WATER METER
	FIRE HYDRANT ASSEMBLY
	FIRE DEPARTMENT CONNECTION
	DETECTOR CHECK VALVE
	DOUBLE DETECTOR CHECK VALVE
	REDUCED PRESSURE BACKFLOW PREVENTER
	BUTTERFLY VALVE
	AIR RELEASE VALVE + SIZE
	BLOW-OFF VALVE + SIZE
	POST INDICATOR VALVE

**ABBREVIATIONS**

NOT ALL SYMBOLS MAY BE USED ON THESE PLANS.

AB	AGGREGATE BASE
AC	ASPHALTIC CONCRETE
AD	AREA DRAIN
APN	ASSESSOR'S PARCEL NUMBER
ARV	AIR RELEASE VALVE
ASB	AGGREGATE SUB-BASE
BO	BLOW-OFF VALVE
BV	BUTTERFLY VALVE
BW	BACK OF WALK
C/L	CENTERLINE
CB	CATCH BASIN
CL	CLASS
CMP	CORRUGATED METAL PIPE
CATV	CABLE TELEVISION
CO	CLEANOUT
COMM	COMMUNICATION
CONC.	CONCRETE
CONST.	CONSTRUCT
CR	CURB RETURN
CS	CONCRETE SURFACE
DC	DOUBLE CHECK VALVE
DDC	DOUBLE DETECTOR CHECK VALVE
DG	DECOMPOSED GRANITE
DI	DROP INLET
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DWG	DRAWING
DS	DOWNSPOUT
E	ELECTRIC
EP	EDGE OF PAVEMENT
ESMT	EASEMENT
EX	EXISTING
FS	FIRE SERVICE LINE
FDC	FIRE DEPARTMENT CONNECTION
FL	FLOWLINE
FM	SANITARY SEWER FORCE MAIN
FF	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
G	GAS
GR	GRATE ELEVATION
GRD	GRADE ELEVATION
GV	GATE VALVE
HB	HOSE BIBB
HBD	HEADER BOARD
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HJ	HIGH JOINT
INV	PIPE INVERT ELEVATION
JP	JOINT UTILITY POLE
LF	LINEAL FEET
LIP	LIP OF GUTTER
LT	LEFT
MS	MOWSTRIP
NTS	NOT TO SCALE
OH	OVERHEAD
PCC	PORTLAND CEMENT CONCRETE
PD	PLANTER DRAIN
PIV	POST INDICATOR VALVE
P/L	PROPERTY LINE
PP	POWER POLE
PUE	PUBLIC UTILITY EASEMENT
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
R	RADIUS
RIM	MANHOLE RIM ELEVATION
RP	REDUCED PRESSURE BACKFLOW PREVENTER
RW	RIGHT OF WAY
SCH	SCHEDULE
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SG	SUBGRADE ELEVATION
SI	SIDE INLET
SS	SANITARY SEWER
SSMH	SANITARY SEWER MANHOLE
STD	STANDARD
S/W	SIDEWALK
T	TELEPHONE
TC	TOP OF CURB
TD	TRENCH DRAIN
TDCB	TRENCH DRAIN CATCH BASIN
TP	TELEPHONE POLE
TR	TOP OF RAMP
TRW	TOP OF RETAINING WALL
TSW	TOP OF SEAT WALK
TW	TOP OF WALK ELEVATION
U	UTILITY
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
VCP	VITRIFIED CLAY PIPE
W	WATER
W/W	WITH
W/O	WITHOUT
WO	WATER VALVE

**GENERAL NOTES**

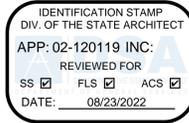
- THE TYPES, LOCATIONS, SIZES, AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, WARREN CONSULTING ENGINEERS CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES. NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY MEMBERS OF UNDERGROUND SERVICE ALERT (USA) TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK BY CALLING TOLL FREE 1-800-227-2600, OR 811.
- WARREN CONSULTING ENGINEERS, INC. (WCE) ASSUMES NO RESPONSIBILITY FOR ERRORS IN PHYSICAL LOCATION OF IMPROVEMENTS, HORIZONTAL OR VERTICAL, IF STAKED BY OTHERS. IN ADDITION, ANY SUCH ERRORS IN PHYSICAL LOCATION MAY AFFECT THE INTENDED DESIGN OF SUCH IMPROVEMENTS AND WCE CANNOT BE HELD RESPONSIBLE FOR SUCH CONDITIONS WHICH ARE A RESULT OF ERRORS IN SURVEYING, OR IMPROPER CONSTRUCTION.
- IF SUBSURFACE CULTURAL RESOURCES, REMAINS, AND/OR ARTIFACTS ARE UNCOVERED DURING PROJECT CONSTRUCTION, ALL WORK IN THE VICINITY SHALL BE STOPPED UNTIL SUCH ITEMS CAN BE ASSESSED BY AN APPROPRIATE MEMBER OF THE COUNTY ENVIRONMENTAL IMPACT SECTION STAFF.
- CONTRACTOR AGREES THAT HE/SHE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
- THE CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT FROM THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL SAFETY FOR ALL EXCAVATIONS OF 5 FEET OR MORE IN DEPTH.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE ALL NECESSARY PRE-BID AND PRE-CONSTRUCTION SITE INSPECTION, AND/OR OBSERVATIONS ON THE SITE TO PRE-DETERMINE ALL HIS/HER MEANS AND METHODS NECESSARY TO COMPLETE THE IMPROVEMENTS SHOWN ON THESE PLANS AND PER THE PROJECT SPECIFICATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE, AND INCLUDE IN HIS/HER CONTRACT, ALL MEANS AND METHODS NECESSARY TO PERFORM A COMPLETE AND ACCEPTABLE JOB.
- WHERE IMPROVEMENTS LIE WITHIN AN EXISTING DEVELOPED AREA, CONTRACTOR SHALL USE CAUTION WHEN ACCESSING THE SITE THROUGH THESE EXISTING IMPROVEMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ANY SUCH EXISTING IMPROVEMENTS OUTSIDE THE PROJECT BOUNDARY, OR EXISTING IMPROVEMENTS WITHIN THE BOUNDARY WHICH ARE TO REMAIN. PROPER PRECAUTIONS SHALL BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION. ANY DAMAGE SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO KEEP DETAILED RECORDS OF MINOR CHANGES OR ADJUSTMENTS MADE DURING CONSTRUCTION (WHICH WERE NOT FORMALLY ISSUED). UPON PROJECT COMPLETION, THESE RECORDS AND/OR INFORMATION SHALL BE PROVIDED TO THE OWNER AND WARREN CONSULTING ENGINEERS, INC. UNLESS AN OFFICIAL "AS-BUILT" SET OF PLANS IS A REQUIREMENT OF THE CONTRACT. IF AS-BUILT PLANS ARE A REQUIREMENT OF THE CONTRACT, REFER TO SPECIFICATIONS FOR AS-BUILT DELIVERABLE REQUIREMENTS.
- IN VEHICULAR PATHWAYS, EXISTING ASPHALTIC AND/OR CONCRETE SURFACES SHALL BE CUT TO A NEAT AND STRAIGHT LINE, PARALLEL OR PERPENDICULAR TO THE VEHICULAR TRAVELED PATH. THIS IS TYPICALLY THE ROADWAY CENTERLINE, BUT MAY VARY. THAT SAWCUT EDGE SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION SO A CLEAN EDGE REMAINS FOR PATCH BACK. IF EDGE IS DAMAGED, A NEW SAW CUT WILL BE REQUIRED. THE EXPOSED EDGE SHALL BE "TACKED" WITH EMULSION PRIOR TO PAVING.
- NO BURNING OR BLASTING SHALL BE ALLOWED ONSITE UNLESS SPECIFICALLY ADDRESSED ON PLANS, OR SPECIFICALLY APPROVED AND COORDINATED WITH THE ARCHITECT, ENGINEER, AND LOCAL AGENCY OR OTHER ADMINISTRATIVE AUTHORITY.
- SUBGRADE AND RESULTING FINISHED GRADE SHALL BE CONSTRUCTED SMOOTH AND UNIFORM BETWEEN SPOT ELEVATIONS, CONTOURS OR OTHER STRUCTURE ELEVATIONS SHOWN ON GRADING OR OTHER PLANS. NO MOUNDS, RUTS, DEPRESSIONS OR OTHER GRADING DEFICIENCIES WILL BE ALLOWED UNLESS SPECIFICALLY SHOWN ON PLANS.
- ON NEW WATER SYSTEMS, SERVICE LATERALS SHALL BE MADE USING APPROPRIATE "TEE" AND "WYE" FITTINGS. SADDLE TAPS WILL ONLY BE ALLOWED WHEN MAKING CONNECTIONS TO EXISTING WATER MAINS.
- CURING COMPOUND SHALL BE APPLIED IN A CONTINUOUS SOLID WET FLOWING COAT. ANY "SPOTTY" APPLICATIONS SHALL BE RECOATED IMMEDIATELY. APPLICATION SHALL BE INSPECTED BY PROJECT INSPECTOR DURING APPLICATION.
- EMBEDMENT OF FEATURES IN CONCRETE PAVING, CURBS, OR WALLS, SUCH AS SQUARE OR ROUND TUBING, POSTS, OR COLUMNS, STEEL BOLTED PLATES, OR OTHER STRUCTURES, SHALL REQUIRE ADDITIONAL SCORE OR EXPANSION JOINTS TO PREVENT UNCONTROLLED CRACKING. THOSE ADDITIONAL JOINTS MAY OR MAY NOT BE SPECIFICALLY SHOWN ON PLANS BUT SHALL BE PROVIDED BY THE CONTRACTOR.
- EMBEDMENT OF FEATURES IN CONCRETE PAVING, CURBS, OR WALLS, SUCH AS SQUARE OR ROUND TUBING, POSTS, OR COLUMNS, STEEL BOLTED PLATES, OR OTHER STRUCTURES, SHALL REQUIRE A MINOR ADJUSTMENT OF REBAR WITHIN CONCRETE TO ALLOW FOR SUCH STRUCTURE. THAT REBAR ADJUSTMENT MAY NOT BE SPECIFICALLY SHOWN ON PLANS.
- NO MORE THAN 1 GALLON OF WATER PER YARD OF CONCRETE CAN BE ADDED TO THE TRUCK AFTER ARRIVAL TO PROJECT SITE. THE ADDITION OF WATER CAN ONLY BE ADDED UNDER THE SUPERVISION OF THE CONCRETE INSPECTOR OR LABORATORY TECHNICIAN.
- WHEN PUMPING CONCRETE FOR PLACEMENT, ABSOLUTELY NO WATER IS TO BE ADDED TO PUMP HOPPER. ANY WATER ADDED TO HOPPER WILL BE REASON FOR CONCRETE REJECTION AT THE CONTRACTOR'S EXPENSE.
- ALL CONTRACTION/CONSTRUCTION JOINTS "CJ" SHALL BE 1/4 THE SLAB THICKNESS DEEP, BUT NO LESS THAN 1" FOR CONTROLLING OF CRACKING. CONTRACTOR SHALL EXERCISE CAUTION WHEN FINAL TROWELING OF CONCRETE SO AS NOT TO FILL IN THESE JOINTS WITH CONCRETE CREAM. ANY CRACKS OUTSIDE OF JOINTS WHICH WERE CONSTRUCTED LESS THAN 1" DEEP, SHALL BE CAUSE FOR CONCRETE SLAB(S) TO BE REMOVED AND REPLACE AT CONTRACTOR'S EXPENSE.
- ANY SCREED BOARDS SET WITHIN CONCRETE SLABS SHALL BE AN "OVERHEAD SCREED" SO THERE IS NO INTERFERENCE WITH THE PLACEMENT AND ALIGNMENT OF SLAB REINFORCING.
- 3-1/2" FELT JOINTS WILL NOT BE ACCEPTED. PROVIDE A FULL 4" FELT JOINT FOR 4" SLAB CONSTRUCTION, AND A 6" FELT JOINT FOR A 6" SLAB CONSTRUCTION.
- SHOULD ANY SHRINKAGE CRACKS OCCUR OUTSIDE OF EITHER THE EXPANSION JOINTS OR CRACK CONTROL JOINTS, THEN THE CONCRETE SLAB SHALL BE SAWCUT AT THE NEAREST JOINTS ON EACH SIDE OF THE CRACK AND THE CONCRETE SECTION SHALL BE, REMOVED AND REPLACED. NEW CONCRETE SHALL BE DOWELED INTO EXISTING CONCRETE PER DRAWING DETAIL.
- ALL AREAS DISTURBED BY GRADING OPERATIONS WHETHER SHOWN ON THE DRAWINGS OR NOT SHALL BE HYDRO SEEDED UNLESS OTHERWISE NOTED. HYDRO SEEDING SHALL CONFORM TO LOCAL CITY/COUNTY STANDARDS.
- REPAIR OR PATCHING OF GALVANIZED METALS, SUCH AS AFTER WELDING GALVANIZED COMPONENTS, SHALL BE MADE USING A ZINC COMPOSITION "HOT STICK" APPLICATION PER ASTM A 780-01. GALVANIZING PAINTS WILL NOT BE ALLOWED.

**GENERAL PAVING SURFACE NOTES:**

- PROVIDE EQUIVALENT OF MEDIUM BROOM FINISH AT SLOPES UP TO 5.99%, TYPICAL. PROVIDE EQUIVALENT OF HEAVY BROOM FINISH AT SLOPES 6% AND GREATER. REFER TO SPECIFICATIONS.
- ALL NEW PEDESTRIAN WALKWAYS (NON-RAMP) SHALL BE SLOPED NO GREATER THAN 2.0%, AND NO LESS THAN 0.75% IN ANY DIRECTION, UNLESS SPECIFICALLY LABELED OTHERWISE. ALL CONCRETE SHALL MEET THE FOLLOWING SLOPE REQUIREMENTS:
  - NO GREATER THAN 5% SLOPE IN THE DIRECTION OF TRAVEL.
  - NO GREATER THAN 2% SLOPE CROSSING THE DIRECTION OF TRAVEL.
  - NO GREATER THAN 2% SLOPE IN ANY DIRECTION IN COURTYARD OR PLAZA AREAS.

**SHEET INDEX**

NO.	SHEET DESCRIPTION
CIVIL	
C0.1	CIVIL GENERAL NOTES AND ABBREVIATIONS
C0.2	TOPOGRAPHIC SURVEY
C1.0A	FIRE ACCESS PLAN
C1.0B	FIRE FLOW CALCULATIONS
C1.1	DEMOLITION PLAN
C1.2	ENGINEERED FILL PLAN
C2.1	GRADING PLAN
C3.1	UTILITY PLAN
C4.1	PAVING PLAN
C5.1	EROSION CONTROL PLAN
C6.1	DETAILS AND SECTIONS
C6.2	DETAILS AND SECTIONS



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1117 WINDFIELD WAY, SUITE 110  
EL DORADO HILLS, CA 95762 | (916) 985-1870

**DSA #02-120119**  
**FILE #48-C1**

**EARLY LEARNING CENTER**

**SOLANO COMMUNITY COLLEGE**  
4000 SUISUN VALLEY RD.  
FAIRFIELD, CA 94534

**SUBMITTAL SET**

**REVISIONS**

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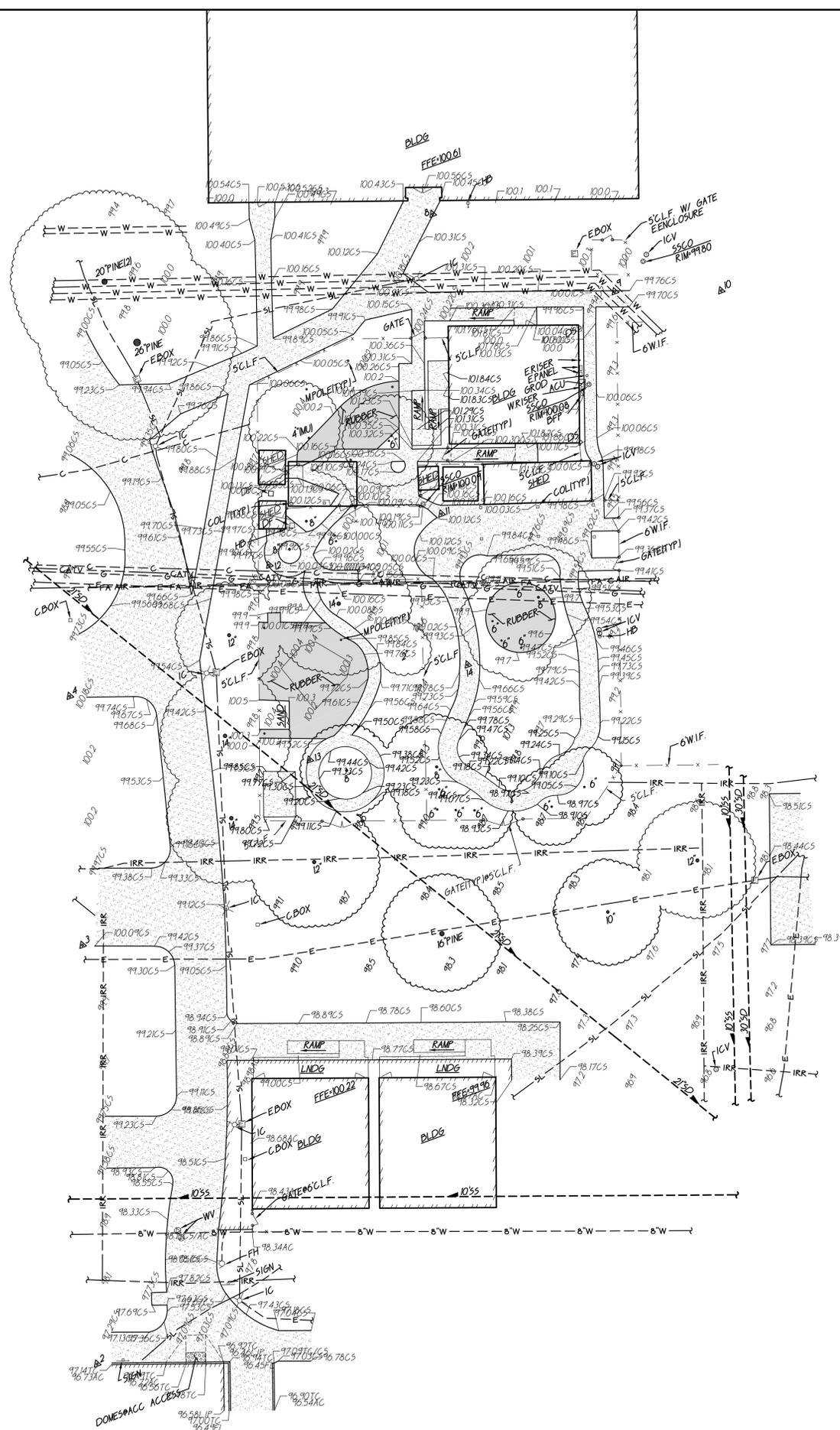
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**CIVIL GENERAL NOTES AND ABBREVIATIONS**

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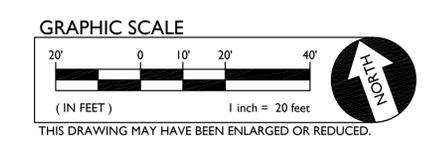


**TBM LIST**

NUMBER	DESCRIPTION	NORTHING	EASTING	ELEVATION
1	CPS CHISELED "+"	9852.20	9844.29	98.23
2	CPS CHISELED "+"	9955.72	9782.14	96.32
3	CPS CHISELED "+"	9929.78	9959.88	93.00
4	CPS MAG NAIL	9822.85	9989.57	96.57
5	CPS MAG NAIL	9758.96	9988.33	98.42
6	CPS MAG NAIL	9649.82	10032.39	99.06
7	CPS MAG NAIL	9554.11	9838.85	99.92
8	CPS MAG NAIL	9486.80	9995.00	100.01
9	CPS MAG NAIL	9540.53	10067.98	100.44
10	CPS MAG NAIL	9617.92	10017.58	99.44
11	CPS PICKER	9661.68	9787.92	100.68
12	CPS PICKER	9682.33	9777.81	100.76
13	CPS PICKER	9720.15	9797.42	100.44
14	CPS PICKER	9750.53	9809.29	100.57
15	CPS PICKER	9696.57	9844.46	100.58
16	CPF OIP CL NTERSEC	9639.38	10184.40	99.96
17	CPF OIP	9674.21	10160.90	99.23
18	CPF OIP CL NTERSEC	10078.17	9888.52	91.05
19	CPS CHISELED "+"	9799.06	9700.20	100.82
20	CPS CHISELED "+"	9820.38	9790.69	99.60

**BASIS OF BEARINGS:**  
PER FOUND MONUMENTS ON C/L OF MONUMENT DRIVE, 157 MAPS 21.

**NOTE:**  
EXISTING UTILITIES BASED ON VISIBLE SURFACE STRUCTURES ONLY.



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**TOPOGRAPHIC SURVEY**

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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.

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: SOLANO COMMUNITY COLLEGE DISTRICT
Project Name/School: EARLY LEARNING CENTER / SOLANO COMMUNITY COLLEGE
Project Address: 4000 SUISUN VALLEY ROAD, FAIRFIELD, CA 94534
FIRE & LIFE SAFETY INFORMATION
1. Has a fire hydrant flow test been performed within the past 12 months? Yes [X] No [ ]
2. Was the fire hydrant water flow test performed as part of this LFA review? Yes [X] 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 [X]
Refer to the following website for FHSZ locations: http://gis.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 [ ]

DSA 810 FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

Table with 4 columns: CONDITION MEANS AND METHODS RESOLUTION, ALTERNATE ACCEPTED (Yes, No, N/A, NPK). Rows include emergency vehicle access, fire hydrants, and fire department connections.

School District Acceptance of Acceptable Design Alternates
By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) minimum requirements...

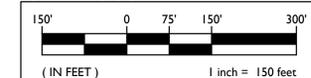
Accepted by: Lucky Lofton VP Facilities
Signature: [Signature] Digitally signed by Lucky Lofton Date: 2022.08.22 13:51:31 -0700 Date: 8/22/2022

LOCAL FIRE AUTHORITY (LFA) INFORMATION
LFA Agency Name: Vacaville Fire Protection District
LFA Review Official: Paul Dahlen
Title: Prevention Captain Work Phone: 707-447-2252
Work Email: paul.dahlen@vfpd.net
LFA Reviewer's Signature: [Signature] Date: 06-17-22

PROPOSED BUILDING DATA:

BUILDING SIZE = 3840SF
BUILDING TYPE = VB
FIRE FLOW PER TABLE BB105.1 = 1750GPM (2 HOURS)
FIRE FLOW WITH BUILDING SPRINKLERED (50% REDUCTION) = 1500GPM (2 HOURS)

GRAPHIC SCALE



THIS DRAWING MAY HAVE BEEN ENLARGED OR REDUCED.



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Table with 3 columns: NO., DESCRIPTION, DATE

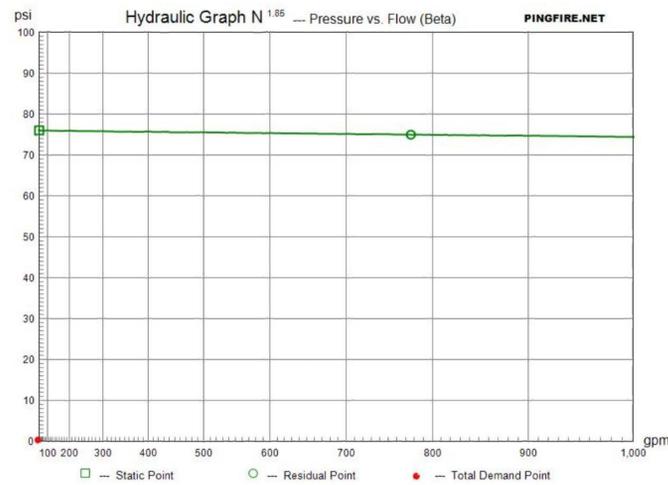
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FIRE ACCESS PLAN

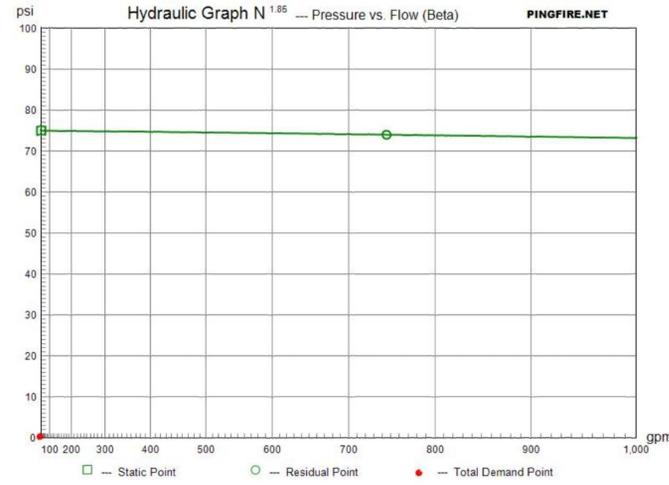
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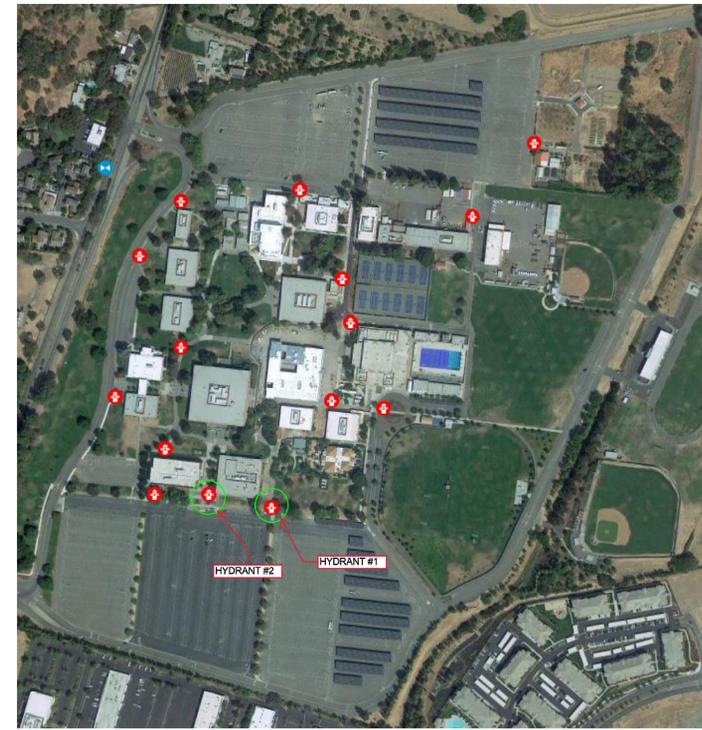
C1.0A



Project Location: \_\_\_\_\_  
 Flow Test: Hydrant Elev.= \_\_\_\_\_ ft., Static Pressure=76 psi, Residual Pressure=75 psi, Flow=776 gpm  
 Tester and/or Witness By: \_\_\_\_\_ Phone: \_\_\_\_\_ Date: \_\_\_\_\_  
 System Demand Data: Pressure = \_\_\_\_\_ psi, Flow= \_\_\_\_\_ gpm, Hose Stream= \_\_\_\_\_ gpm  
 Designer: \_\_\_\_\_ Phone: \_\_\_\_\_ A.H.J. \_\_\_\_\_  
 Hydrant #2 flow test 776 gpm  
 Hydrant #1 remote static/residual 76/75/75 psi  
 Note: \_\_\_\_\_



Project Location: 4000 SUISUN VALLEY ROAD  
 Flow Test: Hydrant Elev.= \_\_\_\_\_ ft., Static Pressure=75 psi, Residual Pressure=74 psi, Flow=745 gpm  
 Tester and/or Witness By: DARWIN MIRANDA Phone: 510 882 7457 Date: 1.5.22  
 System Demand Data: Pressure = \_\_\_\_\_ psi, Flow= \_\_\_\_\_ gpm, Hose Stream= \_\_\_\_\_ gpm  
 Designer: \_\_\_\_\_ Phone: \_\_\_\_\_ A.H.J. \_\_\_\_\_  
 Hydrant #1 flow test 745 gpm  
 Hydrant #2 remote static/residual 75/74/75 psi  
 Note: \_\_\_\_\_



 1117 Windfield Way, Suite 110, El Dorado Hills, CA 95762 Phone: (916) 985-1870 Fax: (916) 985-1877	Project Name:	Solano CC ELC
	Project #:	21-151
	File Name:	Anthony Tassano
	Prepared By:	Anthony Tassano
	Date:	April 14, 2022

**Fire Flow Calculator v1.1**

**Methodology:**  
 The following equations are used to determine fire flow based on the static, residual (flowing), and pitot pressures:  
 $Q_r = 29.83c_d D^2 \sqrt{P_p}$  (Eq. 1)  
 $Q_f = Q_r \left( \frac{P_s - 20}{P_s - P_r} \right)^{0.54}$  (Eq. 2)

where:  
 $Q_r$  is the residual flow at the pitot pressure measured in gpm  
 $c_d$  is the friction loss coefficient (usually 0.9 for a smooth 2 1/2" opening)  
 $D$  is the diameter of the opening in inches  
 $P_p$  is the pitot pressure in psi  
 $Q_f$  is the FIRE FLOW in gpm at 20 psi  
 $P_s$  is the static pressure in psi  
 $P_r$  is the residual pressure in psi

**Fire Flow Test Results:**

Pitot Pressure	75	psi	( $P_p$ )
Outlet Size (dia)	2.5	in.	( $D$ )
Static Pressure	75	psi	( $P_s$ )
Residual Pressure	74	psi	( $P_r$ )
Residual Flow	745	gpm	( $Q_r$ ) (if not in test results, enter 0 here, it will be calculated automatically below)

**Residual Fire Flow Calculation (if not tested):**  
 (Use Eq. 1 above)

Additional Data:  
 $C_d = 0.9$  friction loss (typically 0.9)

Result:  
 $Q_r = 745$  gpm

**Resulting Fire Flow at 20 PSI (Calculated):**  
 (Use Eq. 2 above)

$Q_f = 745 \times 55.00^{0.54}$   
 $Q_f = 6486$  gpm

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**FIRE FLOW  
 CALCULATIONS**

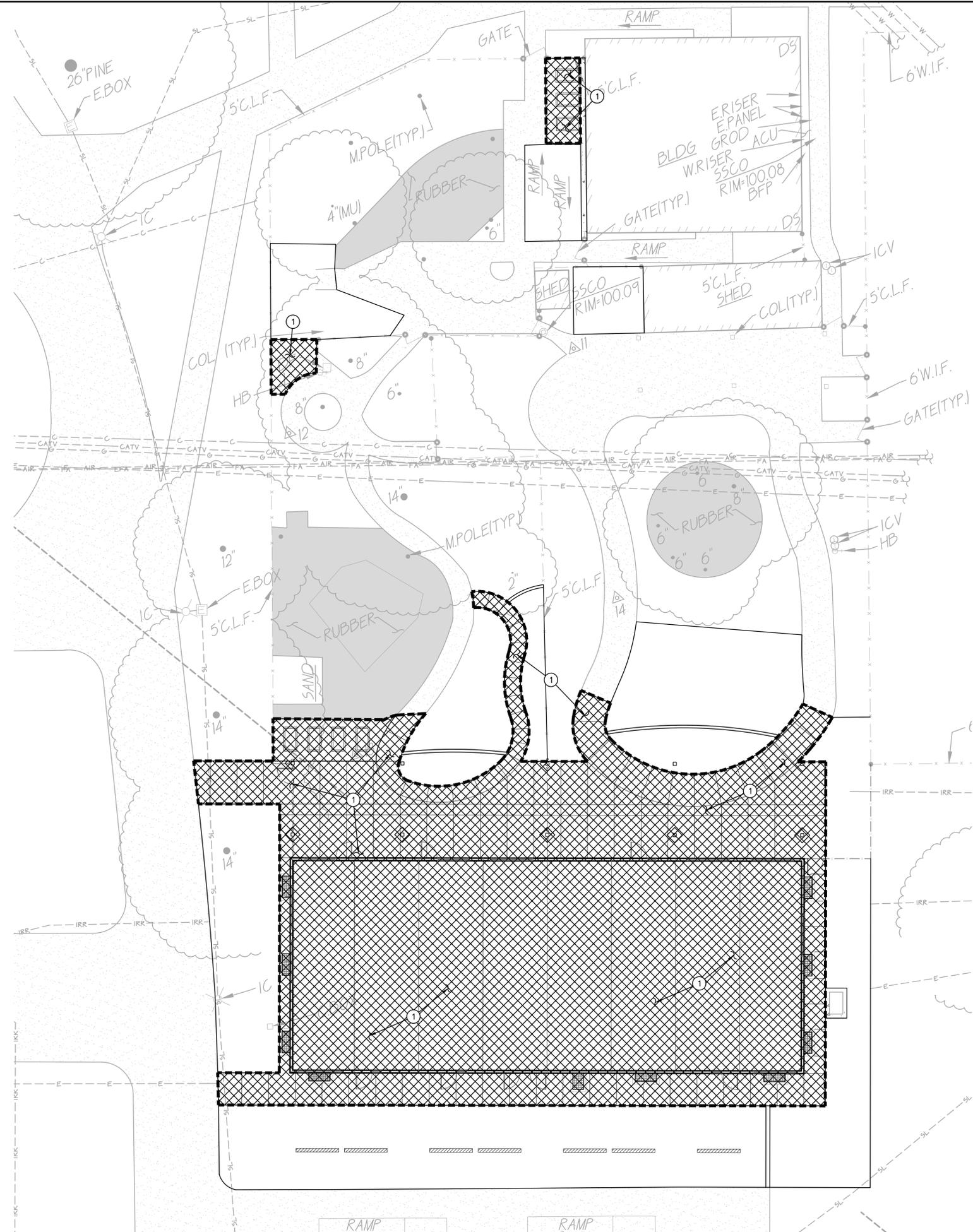
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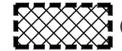
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**ENGINEERED FILL NOTES**

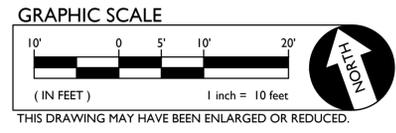


① FOLLOWING SITE CLEARING, STRIPPING AND DEMOLITION ACTIVITIES:  
 FOR AREAS TO BE CUT TO ACHIEVE SUBGRADE, EXCAVATE DOWN TO ROUGH SUBGRADE ELEVATION, SCARIFY THE EXISTING SOILS TO A MINIMUM DEPTH OF 12 INCHES AND UNIFORMLY MOISTURE CONDITION TO AT LEAST 2 PERCENT ABOVE OPTIMUM MOISTURE CONTENT AND COMPACT TO AT LEAST 90 PERCENT OF THE MAXIMUM DRY DENSITY PER ASTM D1557.  
 FOR AREAS TO BE FILLED TO ACHIEVE SUBGRADE, SCARIFY EXPOSED SOILS TO A MINIMUM DEPTH OF 12 INCHES AND UNIFORMLY MOISTURE CONDITION TO AT LEAST 2 PERCENT ABOVE OPTIMUM MOISTURE CONTENT AND COMPACT TO AT LEAST 90 PERCENT OF THE MAXIMUM DRY DENSITY PER ASTM D1557. FILL MATERIAL SHALL BE UNIFORMLY MOISTURE CONDITIONED TO AT LEAST THE OPTIMUM MOISTURE CONTENT AND PLACED IN LIFTS NOT EXCEEDING 8 INCHES IN UNCOMPACTED THICKNESS. FILL SHALL BE COMPACTED TO AT LEAST 90 PERCENT OF THE MAXIMUM DRY DENSITY PER ASTM D1557.

**GENERAL NOTES**

1. IN THE EVENT THAT ANY UNUSUAL CONDITIONS NOT COVERED BY THE GEOTECHNICAL INVESTIGATION REPORT OR ARE ENCOUNTERED DURING GRADING OPERATIONS THE GEOTECHNICAL ENGINEER AND THE ARCHITECT SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTIONS.
2. NO BURNING SHALL BE PERMITTED.
3. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE PLAN WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS, AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, WARREN CONSULTING ENGINEERS CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY THE DISTRICT TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK IN ORDER TO VERIFY TO THE GREATEST EXTENT POSSIBLE THE EXISTING UTILITY LINES, CONFLICTS AND PROPOSED UTILITY CONNECTION POINTS.

**GEOTECHNICAL REPORT**  
 NINYO & MOORE GEOTECHNICAL CONSULTANTS  
 2149 O'TOOLE AVENUE, SUITE 30  
 SAN JOSE, CA 95131  
 PROJECT NUMBER: 404147001  
 DATE: FEBRUARY 7, 2022  
 PHONE: 408-435-9000



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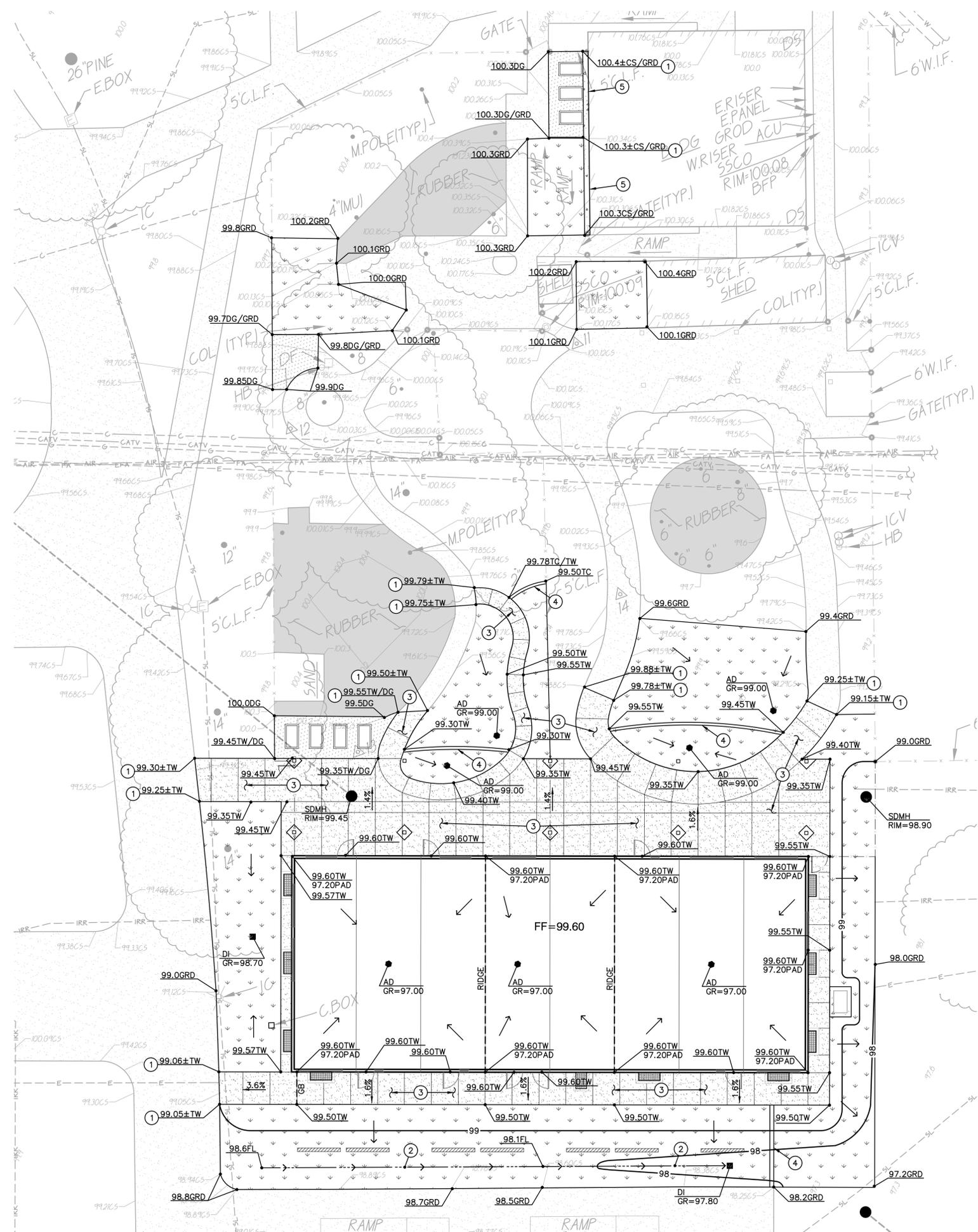
**ENGINEERED FILL PLAN**

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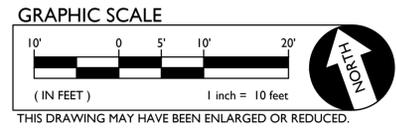
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**C1.2**

8/12/2022 6:16 AM MARIA  
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- GRADING NOTES**
1. MATCH EXISTING GRADE/ELEVATION.
  2. CONSTRUCT SWALE.
  3. CONSTRUCT CONCRETE SIDEWALK PER  $\frac{1}{4}$  C6.1
  4. CONCRETE MOW STRIP PER LANDSCAPE PLANS.
  5. CONCRETE MOW STRIP PER  $\frac{4}{4}$  C6.2



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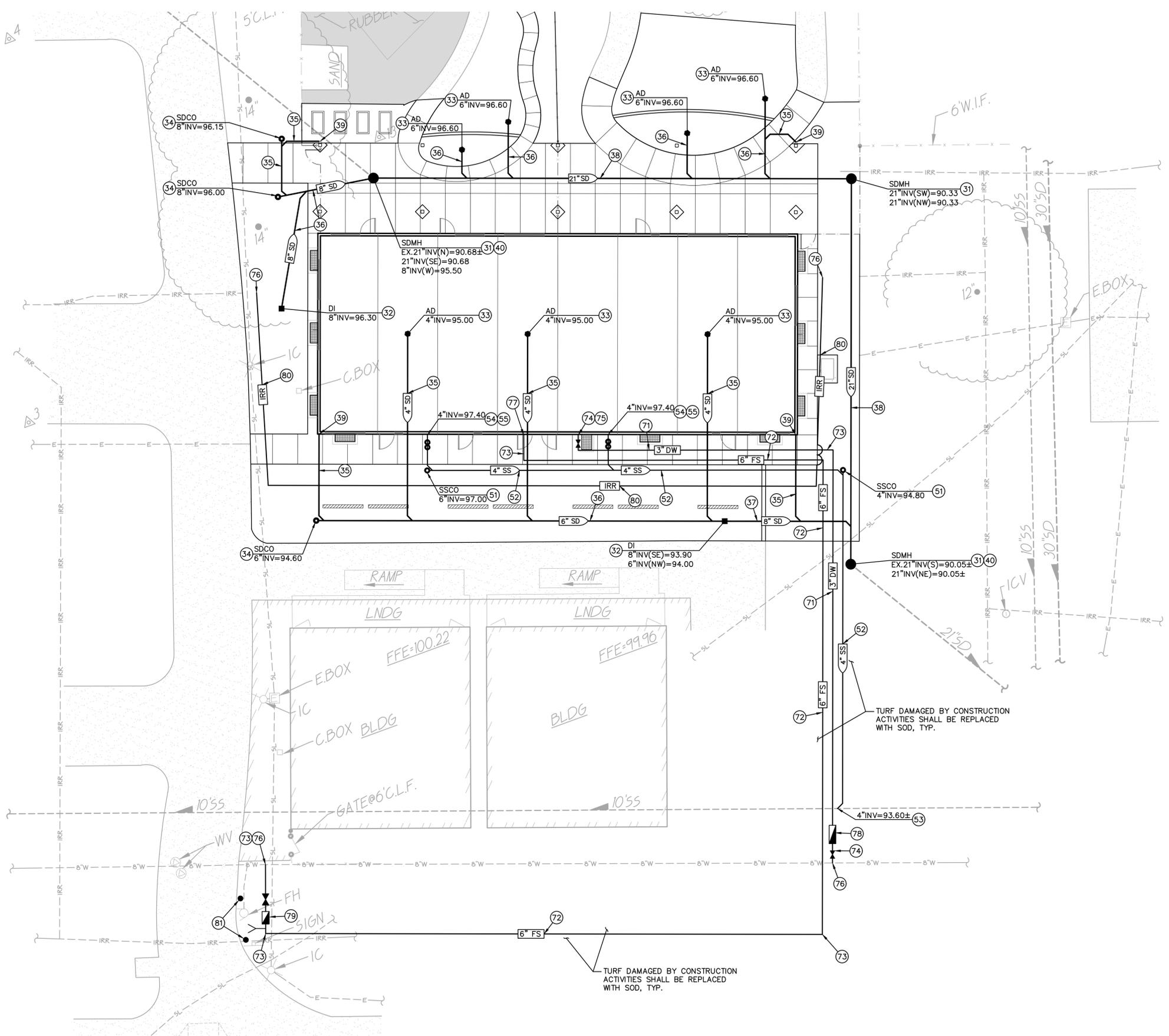
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**GRADING PLAN**

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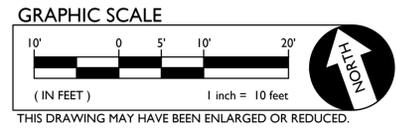
**GENERAL JOINT TRENCH NOTE**

1. UTILITIES MAY BE JOINT TRENCHED PER DETAIL 10  
C6.1

- DRAINAGE NOTES**
- 31. CONSTRUCT STORM DRAIN MANHOLE PER 3  
C6.1
  - 32. CONSTRUCT DROP INLET PER 2  
C6.1
  - 33. CONSTRUCT AREA DRAIN PER 4  
C6.1
  - 34. CONSTRUCT STORM DRAIN CLEANOUT PER 5  
C6.1
  - 35. PLACE 4" STORM DRAIN PER 6  
C6.1
  - 36. PLACE 6" STORM DRAIN PER 6  
C6.1
  - 37. PLACE 8" STORM DRAIN PER 6  
C6.1
  - 38. PLACE 21" STORM DRAIN PER 7  
C6.1
  - 39. PROVIDE DOWNSPOUT CONNECTION PER 7  
C6.1
  - 40. CONNECT TO EXISTING STORM DRAIN. FIELD VERIFY EXACT DEPTH, LOCATION AND CONDITION PRIOR TO TRENCHING. PROVIDE ALL FITTINGS NECESSARY TO MAKE CONNECTION.

- SEWER NOTES**
- 51. PLACE SEWER CLEANOUT PER 5  
C6.1
  - 52. PLACE 4" SEWER PER 6  
C6.1
  - 53. CONNECT TO EXISTING SEWER. FIELD VERIFY EXACT DEPTH, LOCATION AND CONDITION PRIOR TO TRENCHING. PROVIDE ALL FITTINGS NECESSARY TO MAKE CONNECTION.
  - 54. CONNECT TO BUILDING SEWER SERVICE. PROVIDE ALL FITTINGS NECESSARY TO MAKE CONNECTION.
  - 55. PLACE 2-WAY SEWER CLEANOUT PER 8  
C6.1

- WATER NOTES**
- 71. PLACE 3" WATER PIPE PER 9  
C6.1
  - 72. PLACE 6" WATER PIPE PER 9  
C6.1
  - 73. CONSTRUCT CONCRETE THRUST BLOCK PER 1  
C6.2
  - 74. PLACE GATE VALVE AND VALVE BOX. SIZE TO MATCH LINE SIZE. 2  
C6.2
  - 75. CONNECT TO BUILDING DOMESTIC WATER SERVICE. COORDINATE EXACT LOCATION AND DEPTH AT BUILDING PRIOR TO TRENCHING. PROVIDE ALL FITTINGS NECESSARY TO MAKE CONNECTION.
  - 76. CONNECT TO EXISTING WATER LINE. FIELD VERIFY EXACT DEPTH AND LOCATION PRIOR TO TRENCHING. PROVIDE ALL FITTINGS NECESSARY TO MAKE CONNECTION.
  - 77. CONNECT TO BUILDING FIRE SPRINKLER RISER. PROVIDE ALL FITTINGS NECESSARY TO MAKE CONNECTION.
  - 78. PLACE 3" LEAD FREE REDUCED PRESSURE BACKFLOW ASSEMBLY.
  - 79. CONSTRUCT FIRE DEPARTMENT CONNECTION. POST INDICATOR VALVE WITH TAMPER SWITCH AND CHECK VALVE. COORDINATE TAMPER SWITCH CONNECTION TO FIRE ALARM WITH ELECTRICAL PLANS. 3  
C6.2
  - 80. PLACE IRRIGATION PIPE PER 9  
C6.1 SIZE TO MATCH EXISTING LINE SIZE.
  - 81. PLACE BOLLARD PROTECTION AT FIRE APPARATUS PER 5  
C6.2



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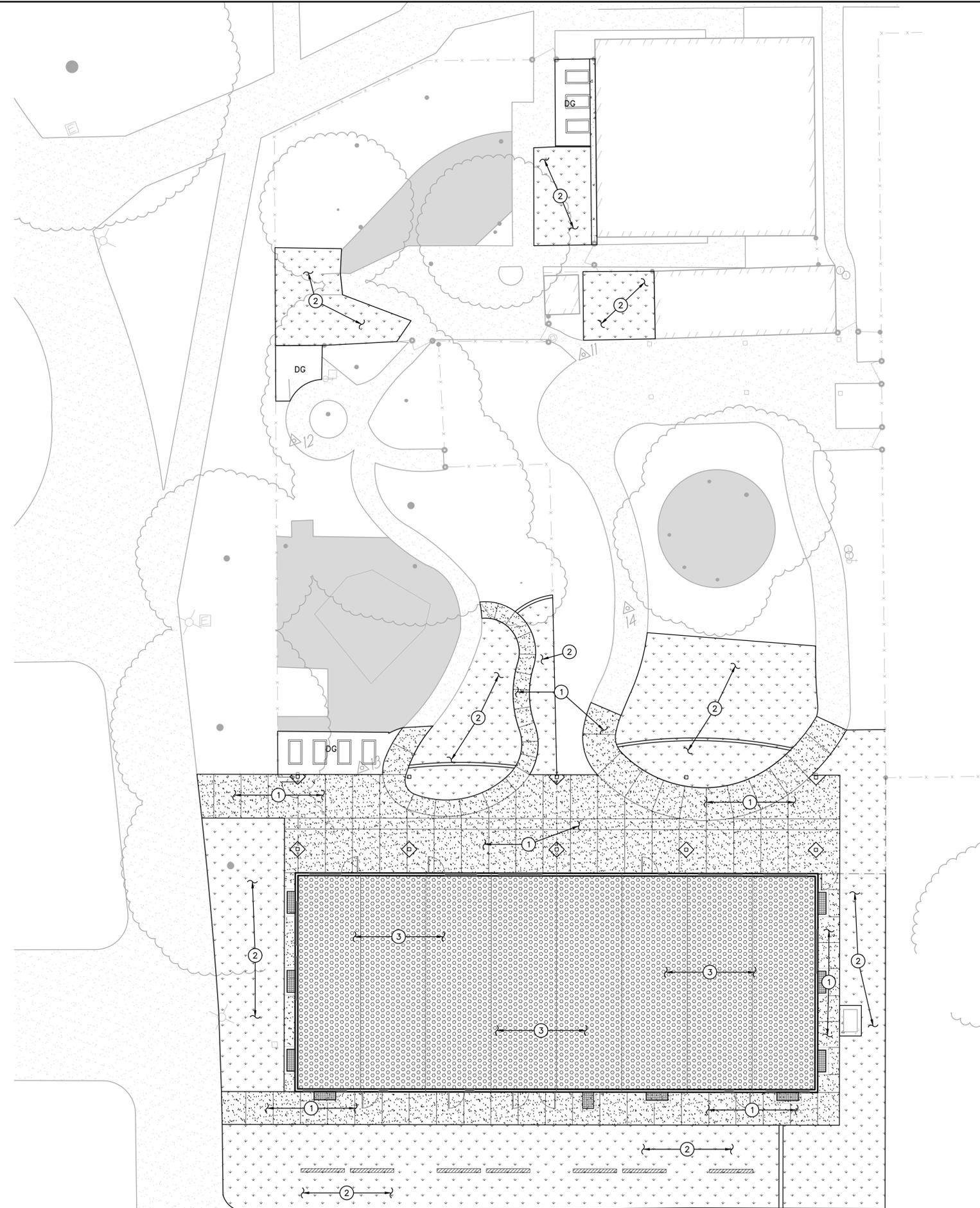
**UTILITY PLAN**

AUGUST 16, 2022

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**C3.1**

8/12/2022 6:17 AM MARIA  
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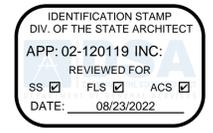


**PAVING GENERAL NOTES:**

1. AGGREGATE BASE SHALL MEET CALTRANS SPECIFICATIONS FOR CLASS II AGGREGATE BASE.
2. ALL AGGREGATE BASE SHALL BE MOISTURE CONDITIONED TO, OR SLIGHTLY ABOVE, OPTIMUM MOISTURE CONTENT AND COMPACTED TO 95% RELATIVE COMPACTION.
3. RECYCLED ASPHALT MAY BE USED AS CONCRETE AND ASPHALT BASE MATERIAL PROVIDED IT MEETS CITY OF SACRAMENTO SPECIFICATIONS FOR CLASS II AB.
4. PAVEMENT SUBGRADE PREPARATION, I.E. SCARIFICATION, MOISTURE CONDITIONING, AND COMPACTION SHALL BE PERFORMED AFTER;  
A. POT HOLING ALL EXISTING UTILITIES.  
B. THE INSTALLATION OF UNDERGROUND UTILITIES AND TRENCHES BACKFILLED IN ACCORDANCE WITH THESE PLANS.
6. ALL AREAS DISTURBED BY GRADING, DEMOLITION, OR CONSTRUCTION ACCESS, WHICH ARE NOT SURFACED BY THIS SET OF PLANS, OR LANDSCAPE PLANS, SHALL BE RESTORED.
7. REFER TO GRADING PLANS FOR CURBS, CURB GUTTERS, VALLEY GUTTERS, AND OTHER CONCRETE STRUCTURES AND PAVING FEATURES NOT SPECIFICALLY NOTED ON THIS PLAN.
8. ADJUST TO FINISH GRADE ALL BOXES, FRAMES, COVERS SLEEVES, POST HOLES, GRATES, ETC. FOUND IN NEW ASPHALT OR CONCRETE PAVING AREAS, WHICH ARE NOT NOTED FOR REMOVAL. REPLACE PER PLAN.

**PAVING LEGEND**

-  **1 TYPE 1 PAVING**  
PLACE 5" PCC WITH #4 REBAR @ 24" O.C.E.W. OVER 6" CLASS II AB ON SUBGRADE COMPACTED PER SPECIFICATIONS.
-  **2 TYPE 2 PAVING**  
PLACE MIN. 12" LAYER AMENDED NATIVE TOPSOIL AS NEEDED TO ACHIEVE SUBGRADE FOR PROPOSED LANDSCAPING. PLACE IN LIFTS NOT EXCEEDING 12" IN UNCOMPACTED THICKNESS AND COMPACT TO 85% RELATIVE COMPACTION UNTIL TOPSOIL SUBGRADE IS ACHIEVED.
-  **3 TYPE 3 PAVING**  
2" THICK CONCRETE SLURRY TO BE COMPLETED BY AMERICAN MODULAR SYSTEMS



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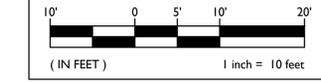
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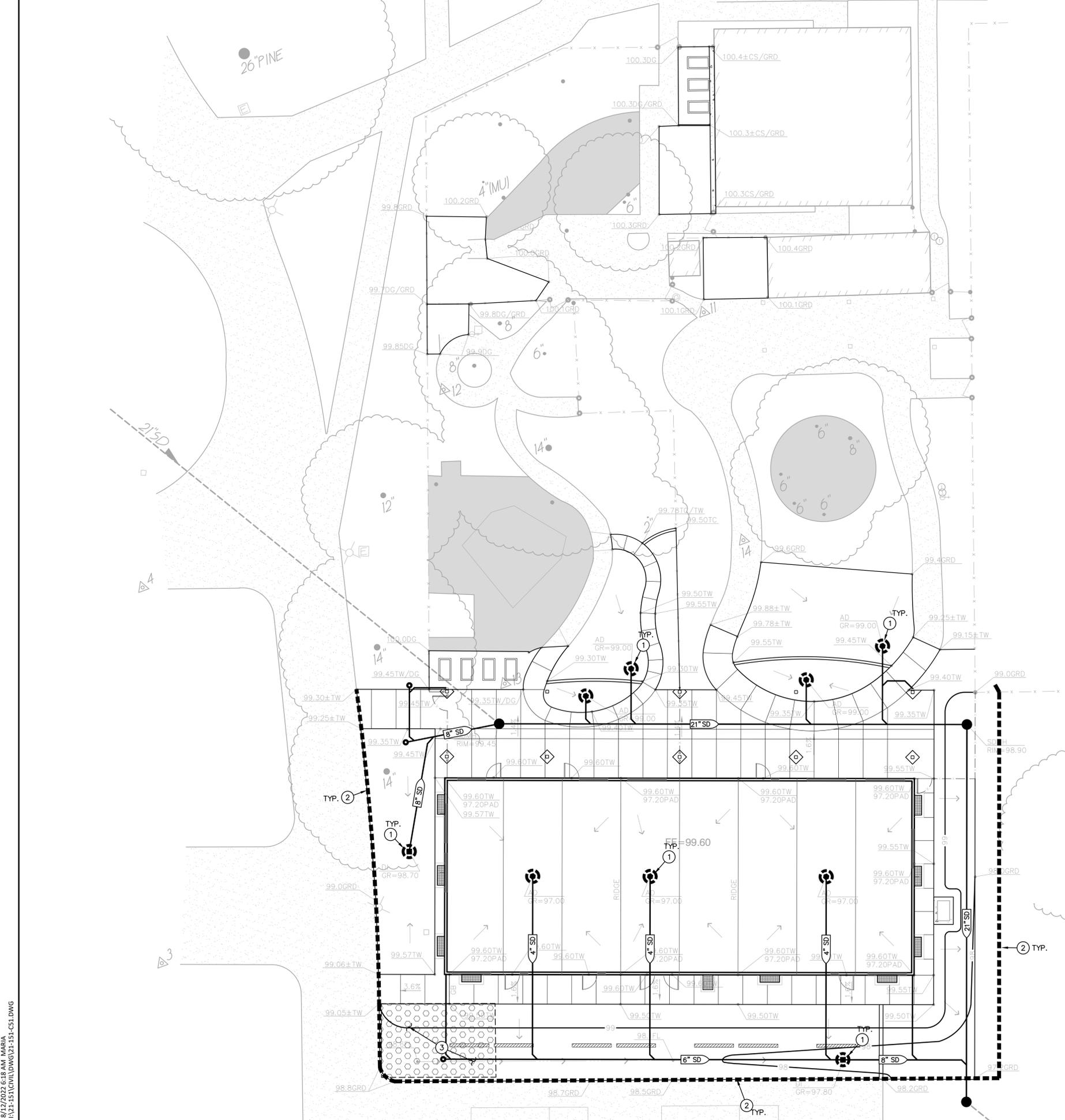
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**GRAPHIC SCALE**



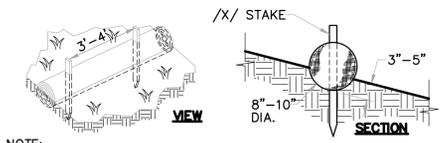
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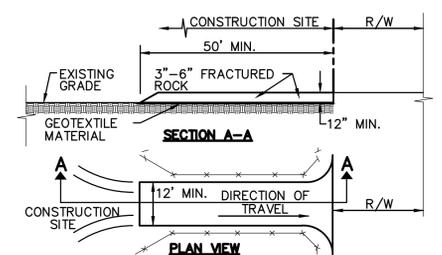
**EROSION CONTROL NOTES**

- ① CONTRACTOR SHALL PROVIDE STRAW WATTLE BARRIER AND FILTER BAG AT ALL INLETS (NEW AND/OR EXIST.) IN AREAS OF WORK, OR AS REQUIRED BY SPECS. 3  
C5.1
- ② CONTRACTOR SHALL PROVIDE STRAW WATTLES AT PERIMETER OF SITE AND IN AREAS REQUIRED BY SPECS. 1  
C5.1
- ③ CONTRACTOR SHALL PROVIDE STABILIZED CONSTRUCTION SITE ACCESS PER DETAIL AT LOCATION REQUIRED FOR CONSTRUCTION ACTIVITIES. 2  
C5.1
- 4. CONTRACTOR SHALL MAINTAIN ALL STRAW WATTLES AND OTHER STORM WATER POLLUTION PREVENTION DEVICES THROUGHOUT CONSTRUCTION. REMOVE ALL POLLUTION PREVENTION DEVICES AT THE END OF CONSTRUCTION AS REQUIRED.
- 5. PRIOR TO PLACEMENT OF LANDSCAPING AND/OR FINISHED GROUND SEEDING, REMOVE TEMPORARY EROSION CONTROL MEASURES.
- 6. CONTRACTOR SHALL PROVIDE AND MAINTAIN FILTER BAGS AT ALL INLETS.



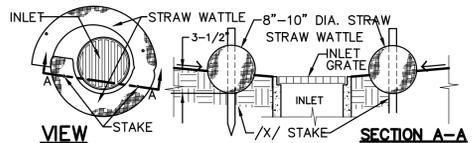
NOTE: STRAW ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3\"/>

**1 STRAW WATTLES**  
C5.1 NO SCALE



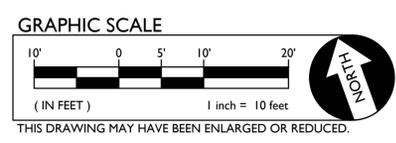
- NOTES:
1. STABILIZED CONSTRUCTION SITE ACCESS SHALL BE CONSTRUCTED OF 3\"/>
  2. LENGTH OF SITE ACCESS SHALL BE A MINIMUM LENGTH OF FIFTY FEET. WIDTH SHALL BE A MINIMUM WIDTH OF TWELVE FEET OR AS NECESSARY TO COVER ALL VEHICULAR INGRESS AND EGRESS.
  3. THE SITE ACCESS SHALL BE KEPT IN GOOD CONDITION BY OCCASIONAL TOP DRESSING.

**2 STABILIZED CONSTRUCTION SITE ACCESS**  
C5.1 NO SCALE



NOTE: STRAW WATTLE INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE WATTLE IN A TRENCH, 3\"/>

**3 STRAW WATTLE INLET FILTER**  
C5.1 NO SCALE



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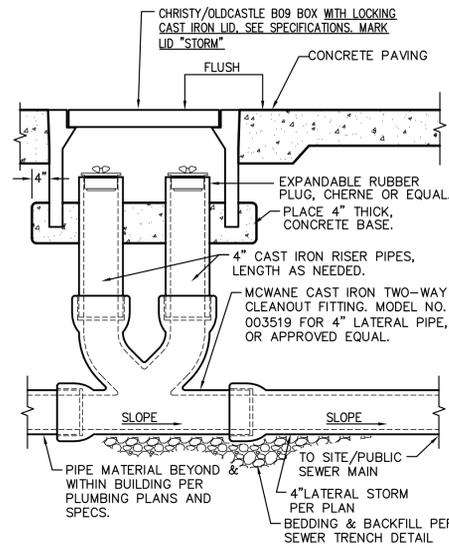
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**EROSION CONTROL PLAN**

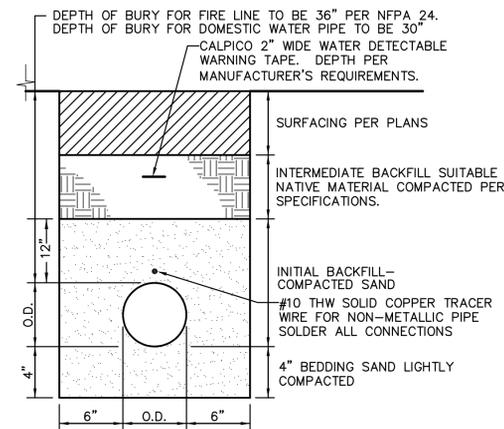
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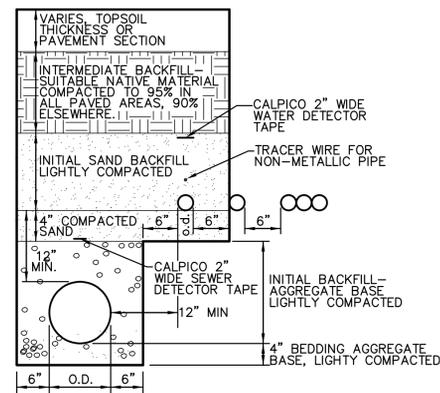
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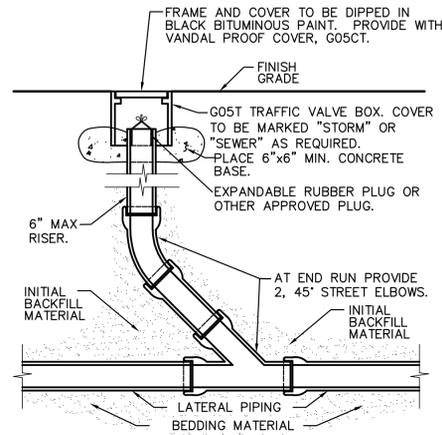
8  
C6.1 2 WAY CLEANOUT NO SCALE



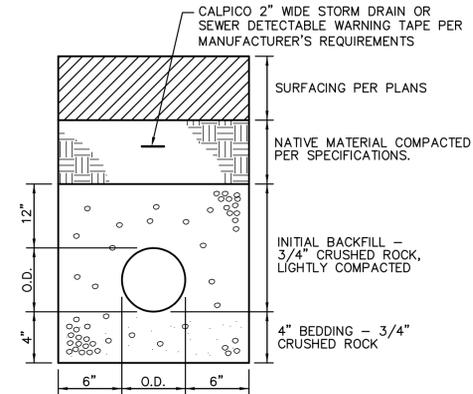
9  
C6.1 WATER TRENCH NO SCALE



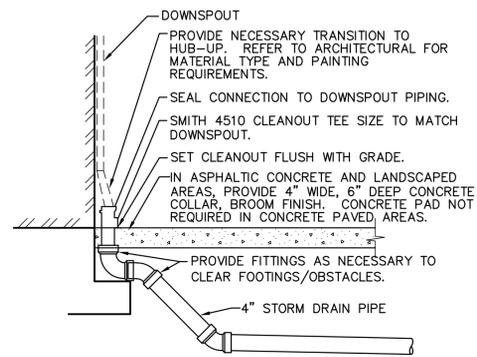
10  
C6.1 JOINT TRENCH NO SCALE



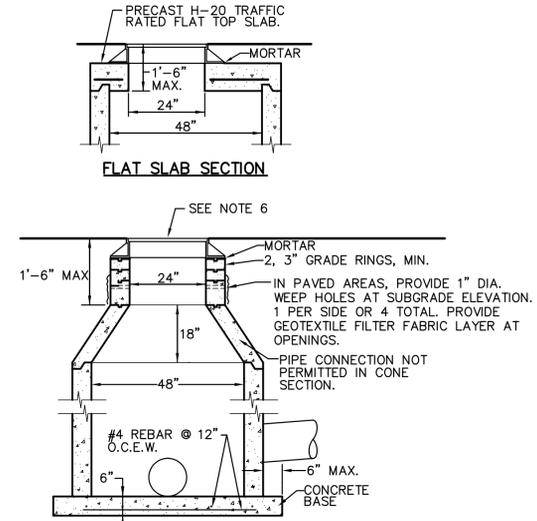
5  
C6.1 CLEANOUT NO SCALE



6  
C6.1 STORM DRAIN AND SEWER TRENCH NO SCALE

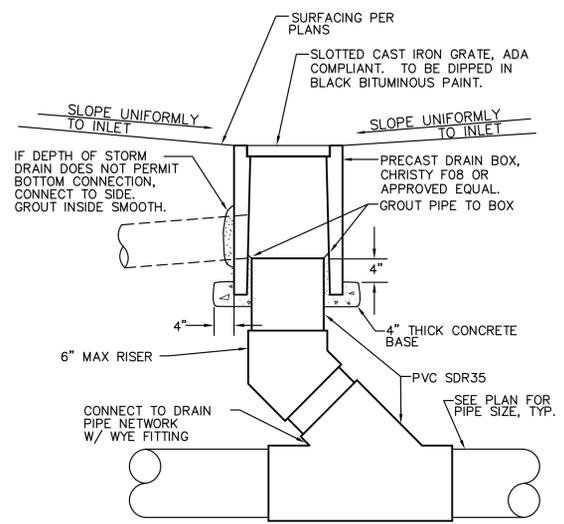


7  
C6.1 DOWNSPOUT CONNECTION NO SCALE

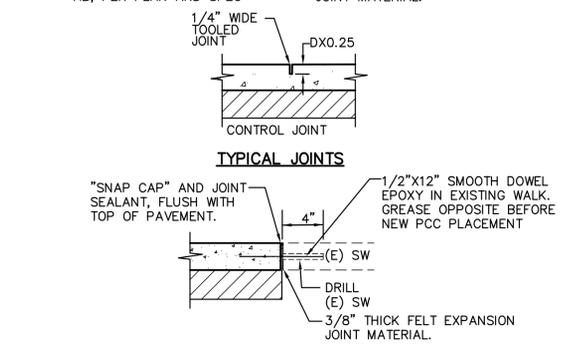
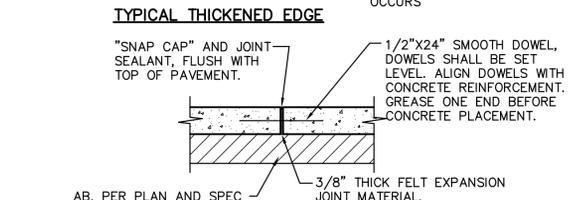
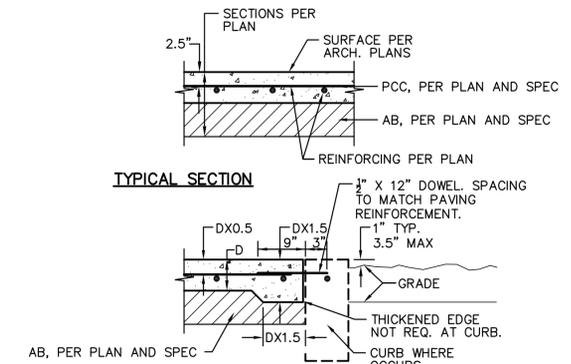


- NOTES:
1. RISER SECTIONS, CONES, AND ADJUSTING RING SHALL CONFORM TO ASTM DESIGNATION C-478.
  2. FRAME SHALL BE SECURED TO RISER OR FLAT SLAB TOP WITH CEMENT MORTAR.
  3. THE CONTRACTOR MAY AT HIS OPTION, CAST THE LOWER PORTION OF MANHOLE IN PLACE. THE CAST-IN-PLACE PORTION SHALL NOT BE PLACED HIGHER THAN 6 INCHES ABOVE THE OUTSIDE TOPS OF THE MAIN INCOMING AND OUTGOING PIPES.
  4. ALL JOINTS SHALL BE SEALED WITH GROUT AND INSIDE OF MANHOLE SHALL BE GROUTED SMOOTH.
  5. FLAT SLAB SHALL BE USED WHEN DEPTH DOES NOT PERMIT USE OF TAPER UNIT. FLAT TOP SLAB TO BE TRAFFIC RATED.
  6. SLOTTED CAST IRON GRATE AND FRAME SHALL BE D&L C2669 (C2669ADA IN PAVED AREAS) OR APPROVED EQUAL. PROVIDE WITH TWO (2) BOLTS TO BOLT COVER/GRATE TO FRAME. SOLID COVERS TO BE MARKED "STORM DRAIN". ALL CASTINGS TO BE DIPPED IN BLACK BITUMINOUS PAINT.
  7. ALL UNDERGROUND VAULTS IN A TRAFFIC LANE ARE TO BE HS20-44. IF HS20-44 RATED, THE TOP MUST BE MARKED.
  8. PRECAST PLANT SHALL BE PCI CERTIFIED.

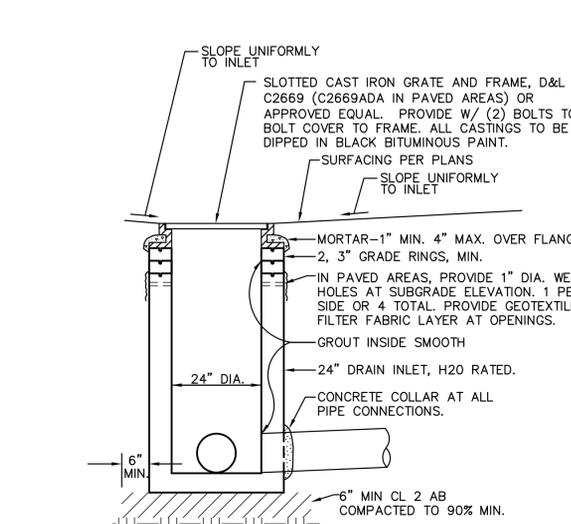
3  
C6.1 STORM DRAIN MANHOLE NO SCALE



4  
C6.1 AREA DRAIN NO SCALE



1  
C6.1 CONCRETE SIDEWALK NO SCALE



2  
C6.1 DROP INLET NO SCALE

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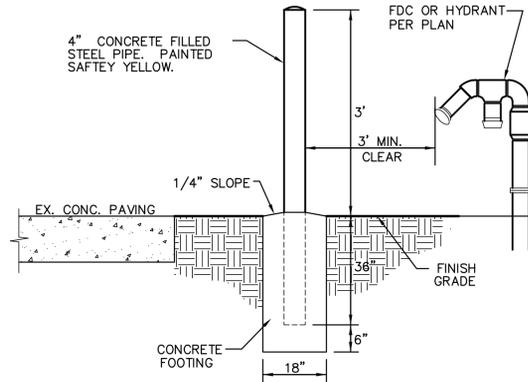
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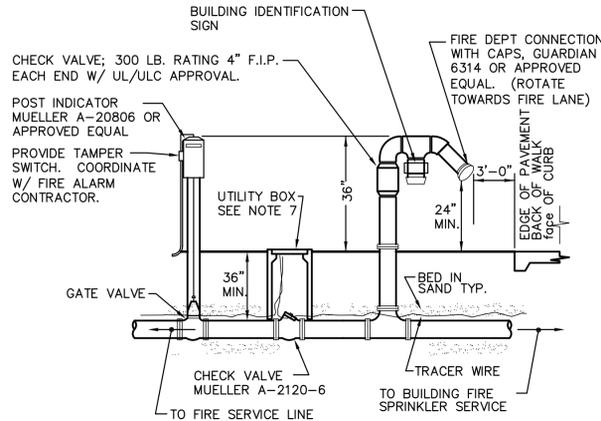
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8/11/2022 9:42 AM ANTHONY TASSANO  
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- NOTE:**
1. PROVIDE 36" MIN. CLEARANCE TO FROM OBJECT BEING PROTECTED.
  2. PLACE BOLLARDS IN A POSITION THAT DOES NOT INTERFERE WITH HOSE OUTLETS.
  3. IF USING MULTIPLE BOLLARDS SPACING SHALL BE NO MORE THAN 4 FEET.

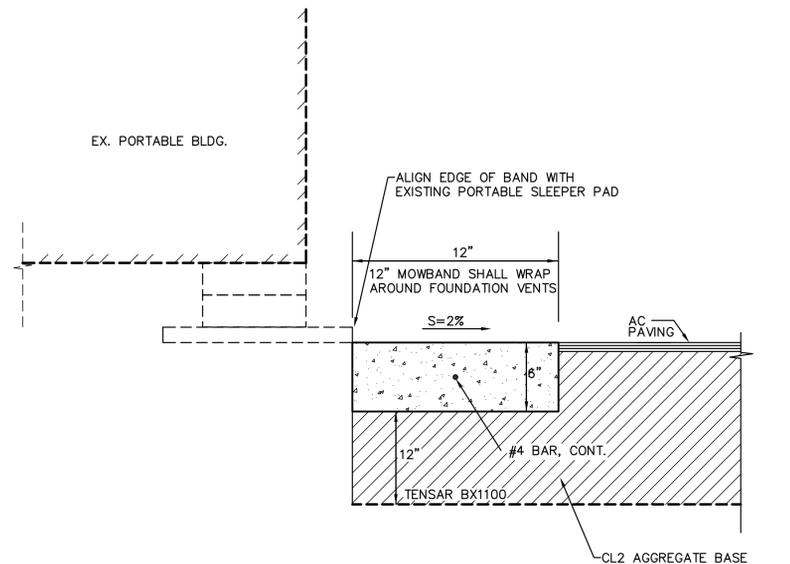


**5**  
C6.2 PIPE BOLLARD NO SCALE



- FIRE DEPARTMENT NOTES**
1. THE INSTALLATION OF ALL ON-SITE FIRE PROTECTION SYSTEMS SHALL BE IN ACCORDANCE WITH N.F.P.A. 24 AND FIRE DEPARTMENT STANDARDS.
  2. ALL ON-SITE FIRE PROTECTION SYSTEMS SHALL BE TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF N.F.P.A. 24 AND SHALL BE WITNESSED BY THE FIRE DEPARTMENT. UNDERGROUND PIPING SHALL BE FLUSHED PER NFPA13 AND RISER STUB-UP IMMEDIATELY CAPPED.
  3. THE INSTALLING CONTRACTOR, OR SUBCONTRACTOR, FOR ALL ON-SITE FIRE PROTECTION SYSTEMS SHALL NOTIFY THE FIRE DEPARTMENT AT LEAST 24 HOURS IN ADVANCE OF REQUESTING A DATE AND TIME FOR INSPECTIONS.
  4. IF PLASTIC PIPE IS INSTALLED FOR FIRE PROTECTION SYSTEMS, THE PIPE SHALL BE C-900 CLASS 200.
  5. AFTER INSTALLATION, RODS, NUTS, BOLTS, WASHERS, CLAMPS, AND OTHER RESTRAINING DEVICES, EXCEPT THRUST BLOCKS, USED ON ON-SITE FIRE PROTECTION SYSTEMS SHALL BE CLEANED AND THOROUGHLY COATED WITH A BITUMINOUS OR OTHER ACCEPTABLE CORROSION-RETARDING MATERIAL.
  6. ALL PIPES AND FITTINGS SHALL BE WRAPPED PER N.F.P.A. 24 AND BEDDED IN SAND.
  7. PROVIDE UTILITY BOX. FOR 4" - 6" VALVE CHRISTY N48, FOR 8"+ CHRISTY N52 OR APPROVED EQUAL. PROVIDE 12" MIN CHAIN WELDED TO LIDS AND BOLTED TO INSIDE OF BOX. LID SHALL BE TRAFFIC RATED IF WITHIN A TRAFFIC AREA.

**3**  
C6.2 FIRE DEPARTMENT CONNECTION ASSEMBLY NO SCALE



**4**  
C6.2 12" WIDE CONCRETE BAND AT BUILDING NO SCALE

**REQUIRED BEARING AREAS IN SQ. FT.**

INSTALLATION	FITTING TYPE	PIPE SIZES			
		4"	6"	8"	10"12"
90° ELL	3"	6	10	14	20
	4"	3	5	8	11
	22.5° ELL	1	2	3	4
TEE	11.25° ELL	1	1	2	3
	2"	4	7	10	14
DEAD END	2"	4	7	10	14
	#4 BARS TRENCH KEY 6" MIN.	2	4	7	10

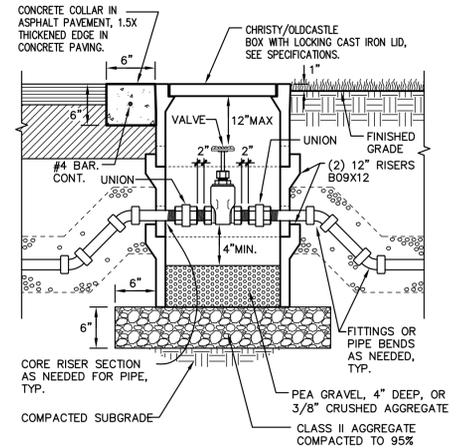
**VERTICAL THRUST BLOCKS REQUIRED CONCRETE VOLUME, IN CY.**

INSTALLATION	FITTING TYPE	PIPE SIZES			
		4"	6"	8"	10"12"
90° ELBOW	1.3	2.6	4.5	6.8	9.6
	45° ELL	0.7	1.4	2.4	3.7
22.5° ELL	0.3	0.7	1.2	1.9	2.6
	11.25° ELL	0.2	0.4	0.6	0.9
REDUCER	0.7	0.7	1.2	1.8	2.6

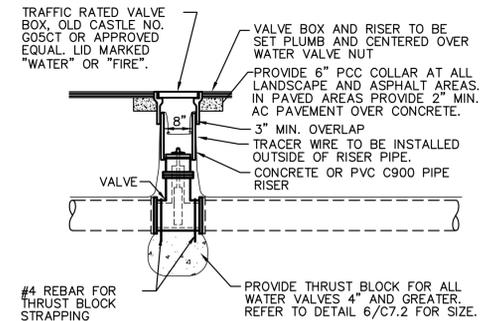
W/ MIN. 2 #5 REBAR TIES, TYP.

- NOTES**
1. THRUST BLOCKS ARE TO BE CONSTRUCTED OF 2500 PSI CONCRETE MIN.
  2. AREAS IN TABLE HAVE BEEN DERIVED USING A WATER PRESSURE OF 200 POUNDS PER SQUARE INCH (13.8 BARS) AND SOIL RESISTANCE OF 2000 POUNDS PER SQUARE FOOT (137.9 BARS).
  3. BLOCKING TO BE POURED AGAINST UNDISTURBED SOIL, 12 INCH THICK MINIMUM.
  4. THRUST BLOCKS ARE TO BE FREE, SEPARATE AND INDEPENDENT OF ADJACENT OR NEARBY THRUST BLOCKS.
  5. WRAP ALL FITTINGS BEFORE PLACING CONCRETE.

**1**  
C6.2 THRUST BLOCKS NO SCALE



**WATER VALVE 1/2" - 3"**  
NO SCALE



**WATER VALVE 4" OR GREATER**  
NO SCALE

**2**  
C6.2 WATER VALVE NO SCALE

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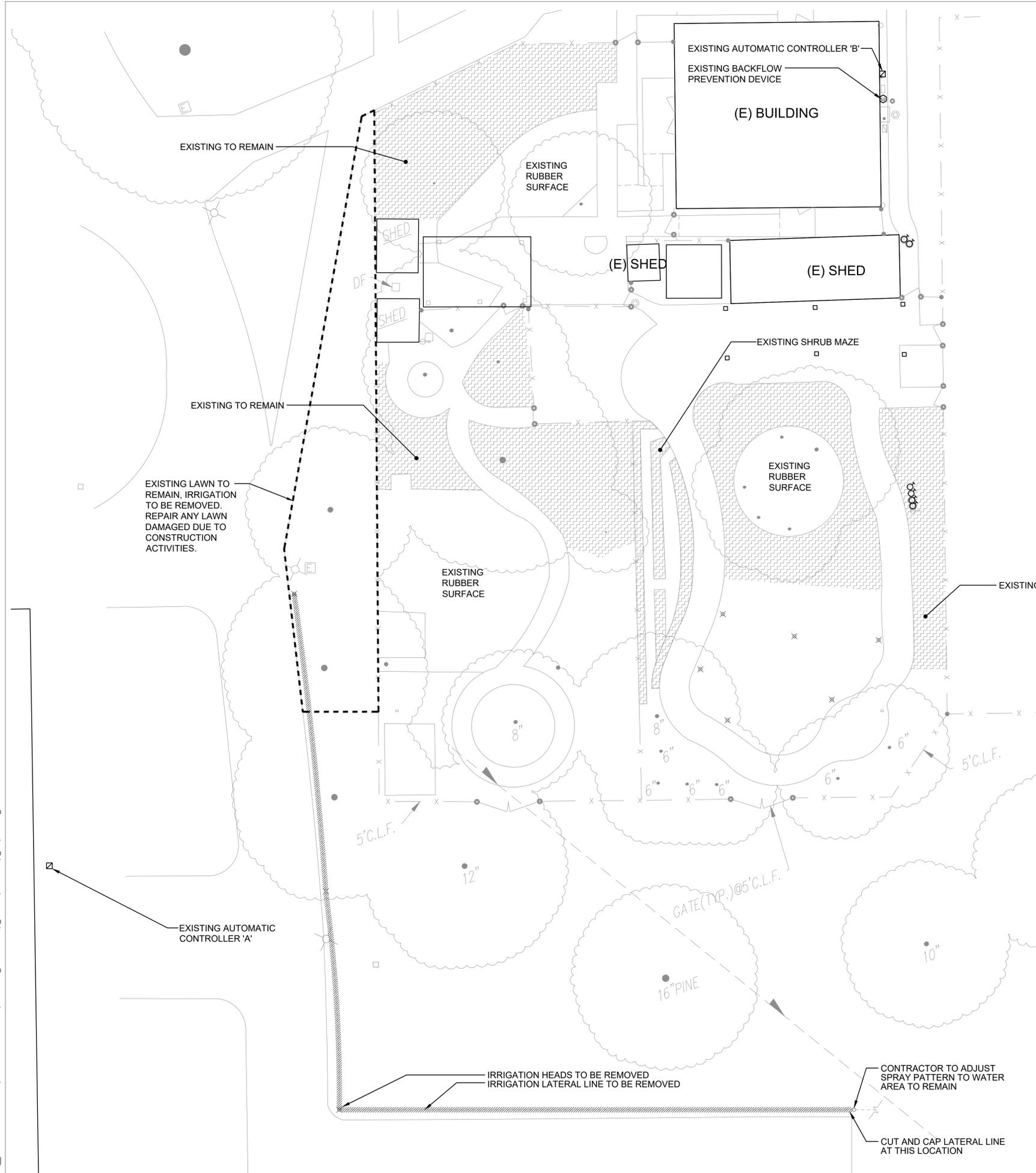
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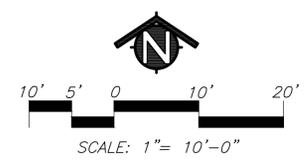
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8/15/2022 5:17 PM PETER20  
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KEY	IRRIGATION DEMOLITION LEGEND
	EXISTING TREE SEE CIVIL'S PLANS FOR TREE DEMO.
	LIMITS OF LANDSCAPE AND IRRIGATION TO BE REMOVED
	EXISTING LANDSCAPE AND SPRINKLER AREAS TO REMAIN
	EXISTING IRRIGATION CONTROLLER TO REMAIN
	EXISTING BACKFLOW PREVENTION DEVICE TO REMAIN
	EXISTING AUTOMATIC CONTROL VALVE TO REMAIN
	EXISTING IRRIGATION MAINLINE TO REMAIN
	EXISTING IRRIGATION MAINLINE TO REMOVE
	EXISTING LATERAL LINE TO REMAIN
	EXISTING LATERAL LINE TO REMOVE
	EXISTING IRRIGATION HEAD TO BE REMOVED
	EXISTING IRRIGATION HEAD TO REMAIN

- PRE-CONSTRUCTION SPRINKLER IRRIGATION NOTES**
- PRIOR TO START OF CONSTRUCTION CONTRACTOR REQUIRED TO CONTACT:  
 NAME, TITLE: \_\_\_\_\_  
 PHONE NUMBER: \_\_\_\_\_  
 TO SET UP A MEETING ON SITE TO OPERATE THE EXISTING SPRINKLER IRRIGATION SYSTEM AND DISCUSS THE MODIFICATIONS THAT ARE TO BE MADE TO THE EXISTING SYSTEM TO ACCOMMODATE FOR THE NEW CONSTRUCTION.
  - CONTRACTOR TO OPERATE AND PROGRAM EXISTING SPRINKLER IRRIGATION SYSTEM THAT IS TO REMAIN IN ORDER TO PROVIDE WATER TO THE EXISTING LANDSCAPE TO REMAIN.
  - CONTRACTOR TO REMOVE ALL EXISTING PIPE AND SPRINKLER HEADS WHEN THEY ARE IN NEW PLANTING AREAS.
  - CONTRACTOR TO RESTORE AND REPAIR ANY EXISTING SPRINKLER IRRIGATION SYSTEM OR EXISTING LANDSCAPE WHICH IS IN AREAS TO REMAIN THAT IS DAMAGED BY NEW WORK.
  - ALL WORK TO EXISTING SPRINKLER IRRIGATION SYSTEM TO BE COMPLETED PRIOR TO SITE DEMOLITION.

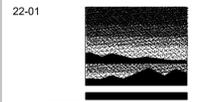


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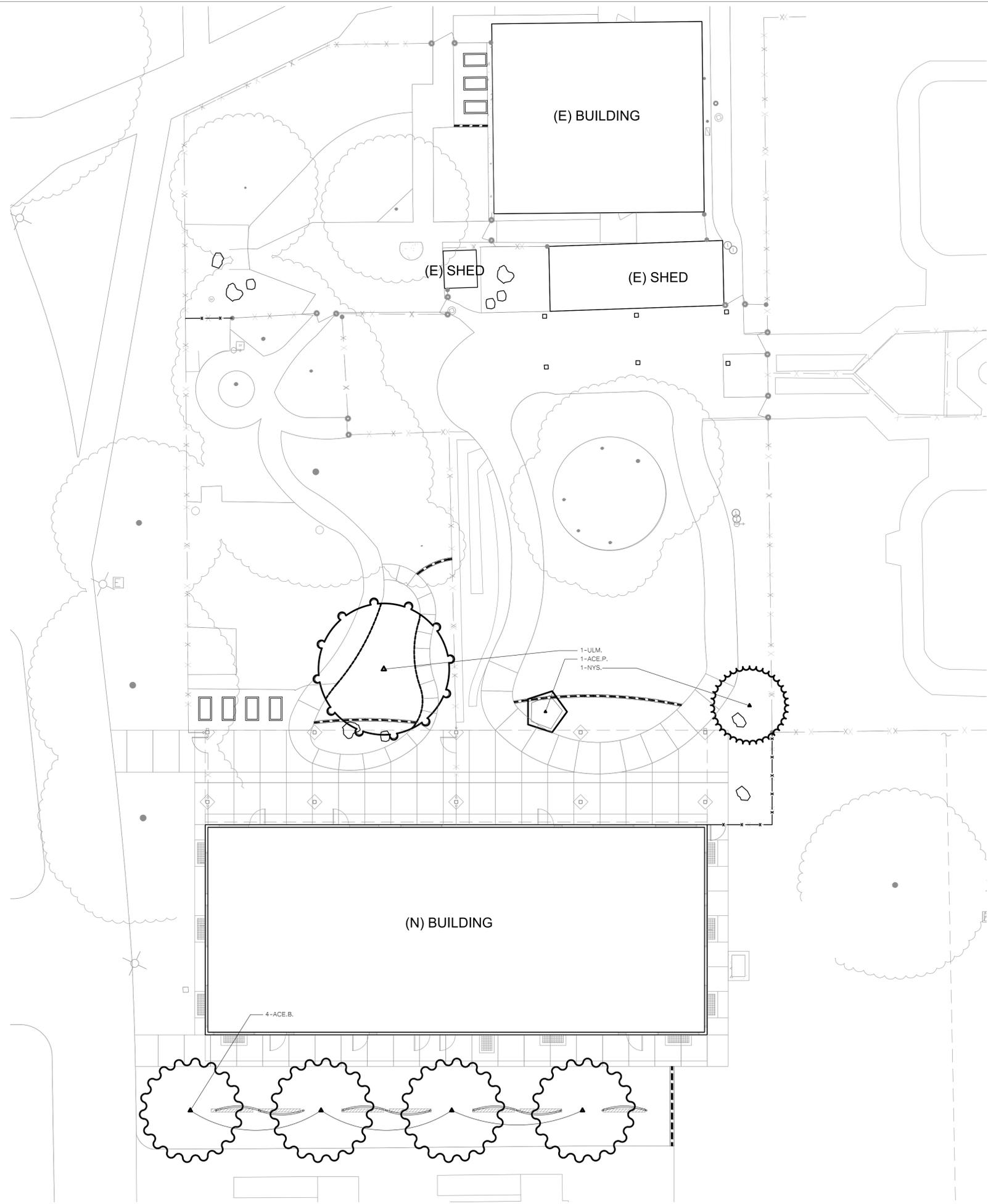
**LANDSCAPE AND IRRIGATION DEMOLITION PLAN**

AUGUST 15, 2022

DRAWN BY: SL  
 CHECKED BY: RL  
 JOB NO: 21052

**L0.1**

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KEY	LANDSCAPE LEGEND
	TREES - NOT ALL SYMBOLS SHOWN
	CONCRETE MOWSTRIP
	ROOT BARRIER, INSTALL WHERE SHOWN ON PLANS
	PLANT QUANTITY
	PLANT KEY
	EXISTING TREES TO REMAIN

SIZE	QTY.	KEY	BOTANICAL NAME ... COMMON NAME	WATER USE
<b>TREES:</b>				
24" BOX	4	ACE.B.	ACER BUERGERIANUM ... TRIDENT MAPLE	MEDIUM
24" BOX	1	ACE.P.	ACER PALMATUM 'SANGO KAKU' ... CORAL BARK JAPANESE MAPLE	MEDIUM
24" BOX	1	NYS.	NYSSA SYLVATICA ... SOUR GUM	MEDIUM
24" BOX	1	ULM.	ULMUS 'FRONTIER' ... FRONTIER ELM	MEDIUM

**GENERAL LANDSCAPE REQUIREMENTS/NOTES**

- NO PLANTING SHALL BE STARTED UNTIL SPRINKLER IRRIGATION SYSTEM HAS BEEN TESTED BY CONTRACTOR IN PRESENCE OF OWNER'S REPRESENTATIVE AND NOTED DEFICIENCIES CORRECTED.
- NO PLANTING SHALL BE STARTED UNTIL SOIL PREPARATION AND FINISH GRADING OPERATIONS HAVE BEEN COMPLETED AND APPROVED BY THE OWNER'S REPRESENTATIVE.
- QUANTITIES SHOWN ON PLANT MATERIAL LIST ARE APPROXIMATE. PROVIDE QUANTITIES INDICATED ON LANDSCAPE PLAN.
- PLANT MATERIAL IS SUBJECT TO APPROVAL OF OWNER'S REPRESENTATIVE.
- SEE SHEET L4.1 FOR PLANTING INSTALLATION DETAILS.

**ENVIRONMENTAL REQUIREMENTS:**  
 GENERAL: PROCEED WITH WORK IN ORDERLY AND TIMELY MANNER TO COMPLETE INSTALLATION OF LANDSCAPING WITHIN CONTRACT LIMITS.

**PROTECTION:**  
 EXISTING CONSTRUCTION: EXECUTE WORK IN AN ORDERLY AND CAREFUL MANNER TO PROTECT NEW CONCRETE WALKS, WORK OF OTHER TRADES, AND OTHER IMPROVEMENTS.

**EXISTING UTILITIES:** DETERMINE LOCATION OF UNDERGROUND UTILITIES AND PERFORM WORK IN A MANNER WHICH WILL AVOID POSSIBLE DAMAGE. HAND EXCAVATE, AS REQUIRED, TO MINIMIZE POSSIBILITY OF DAMAGE TO UNDERGROUND UTILITIES. MAINTAIN GRADE STAKES SET BY OTHERS UNTIL REMOVAL IS MUTUALLY AGREED UPON BY ALL PARTIES CONCERNED. BE RESPONSIBLE FOR PROTECTION OF EXISTING UTILITIES WITHIN CONSTRUCTION AREA; REPAIR DAMAGE TO UTILITIES THAT OCCUR AS A RESULT OF OPERATIONS OF THIS WORK.

**LANDSCAPING:** PROTECT LANDSCAPE WORK AND MATERIALS FROM DAMAGE DUE TO LANDSCAPE OPERATIONS, OPERATIONS BY OTHER CONTRACTORS AND TRADES AND TRESPASSERS; MAINTAIN PROTECTION DURING INSTALLATION AND MAINTENANCE PERIODS. TREAT, REPAIR OR REPLACE DAMAGED LANDSCAPE WORK AS DIRECTED AT NO ADDITIONAL COST TO CONTRACT.

**ADVERSE CONDITIONS:** WHEN CONDITIONS DETRIMENTAL TO SOIL OR PLANT GROWTH ARE ENCOUNTERED, SUCH AS RUBBLE FILL, ADVERSE DRAINAGE CONDITIONS, OR OBSTRUCTIONS, NOTIFY OWNER'S REPRESENTATIVE BEFORE STARTING WORK.

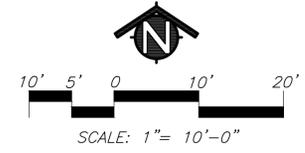
**PLANTING AND TURF INSTALLATION SEASONS AND CONDITIONS**  
 NO WORK SHALL BE DONE WHEN GROUND IS FROZEN, SNOW COVERED, TOO WET OR IN AN OTHERWISE UNSUITABLE CONDITION FOR AMENDING SOIL, FINISH GRADING OR PLANTING.

**SOIL TESTING/SOIL IMPROVEMENT:**  
 SEE SPECIFICATIONS 32 90 00, SECTION 3.02 SOIL TESTING AND SECTION 3.03 PREPARATION.

**SOIL PERCOLATION**  
 EXCAVATE 10 PLANTING PITS IN RANDOM AREAS OF SITE. FILL EXCAVATED PLANTING PITS WITH WATER TO 1/2 DEPTH OF PIT. PITS SHOULD DRAIN WITHIN 4 HOURS. IF PLANTING PITS DO NOT DRAIN, NOTIFY INSPECTOR IMMEDIATELY. PLANTING SHALL NOT BE STARTED UNTIL OWNER'S REPRESENTATIVE HAS RESOLVED A METHOD TO REMEDY DRAINAGE ISSUE.

**PLANT MATERIAL STANDARDS**  
 PLANTS SHALL BE IN ACCORDANCE WITH AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) ANSI Z60.1- AMERICAN STANDARD FOR NURSERY STOCK, EXCEPT AS OTHERWISE STATED IN SPECIFICATIONS OR SHOWN ON DRAWINGS. WHERE DRAWINGS OR SPECIFICATIONS ARE IN CONFLICT WITH ANSI Z60.1, DRAWINGS AND SPECIFICATIONS SHALL PREVAIL. PRUNE, THIN OUT AND SHAPE TREES IN ACCORDANCE WITH ANSI STANDARD HORTICULTURAL PRACTICE. PRUNE TREES TO RETAIN REQUIRED HEIGHT AND SPREAD, UNLESS OTHERWISE DIRECTED BY LANDSCAPE ARCHITECT. DO NOT CUT TREE LEADERS, AND REMOVE ONLY INJURED OR DEAD BRANCHES FROM FLOWERING TREES.

**EXISTING LANDSCAPE AND SPRINKLER IRRIGATION SYSTEM**  
 WORK LIMITS OF THIS PROJECT EXTEND INTO AREAS THAT WERE PREVIOUSLY DEVELOPED UNDER OTHER CONTRACTS. PRIOR TO START OF WORK, CONTRACTOR SHALL MEET WITH OWNER'S REPRESENTATIVE TO LOCATE ALL CONNECTIONS CALLED FOR ON DRAWINGS. WORK LIMITS/FENCING SHALL BE LAID OUT BY CONTRACTOR AND VERIFIED BY OWNER'S REPRESENTATIVE. FENCE TO BE INSTALLED AND IRRIGATION SYSTEM SHALL BE TESTED WITH CONTRACTOR, INSPECTOR, AND OWNER'S REPRESENTATIVE PRESENT. DEFICIENCIES SHALL BE NOTED AT THIS TIME AND ARE THE RESPONSIBILITY OF OWNER. AT COMPLETION OF WORK, SYSTEM WILL AGAIN BE TESTED. DEFICIENCIES NOTED AT THIS TIME THAT WERE NOT NOTED PREVIOUSLY WILL BE RESPONSIBILITY OF CONTRACTOR. EXISTING LANDSCAPE THAT HAS BEEN DAMAGED DUE TO CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION BY CONTRACTOR AT NO ADDITIONAL COST TO OWNER. PRIOR TO MAKING ANY CONNECTION TO MAIN LINE, CONTRACTOR SHALL NOTIFY OWNER 1 WEEK IN ADVANCE SO ADJUSTMENTS TO EXISTING WATERING PROGRAMS CAN BE MADE.

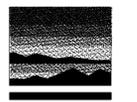


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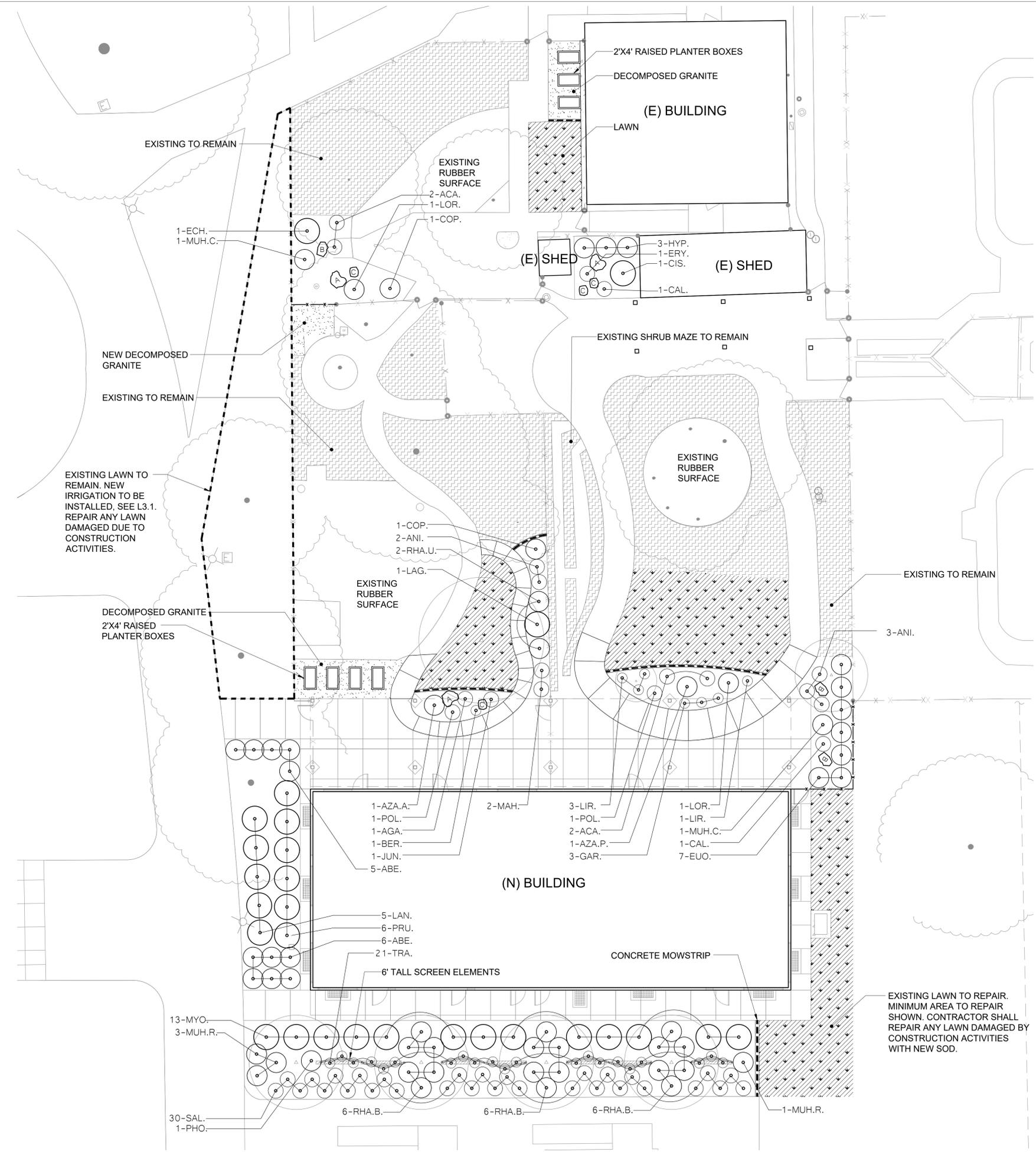
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TREE PLANTING PLAN

AUGUST 15, 2022

DRAWN BY: SL	<b>L1.1</b>
CHECKED BY: RL	
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**KEY**

**LANDSCAPE LEGEND**

TREE OUTLINE FOR REFERENCE

SHRUBS

LAWN (SOD)

DECOMPOSED GRANITE

EXISTING LANDSCAPE AND SPRINKLER AREAS TO REMAIN  
 CONTRACTOR SHALL REPAIR ANY EXISTING LANDSCAPE DAMAGED DUE TO CONSTRUCTION ACTIVITIES.

2'X4' WOOD PLANTER BOX

6' TALL SCREENING ELEMENT  
 MANUFACTURER: GREENSCREEN  
 PRODUCT: FREESTANDING CURVED SCREEN  
 COLOR: TERRA

CONCRETE MOWSTRIP

LANDSCAPE BOULDERS

PLANT QUANTITY

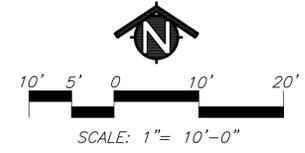
PLANT KEY

EXISTING TREES TO REMAIN

**PLANT MATERIAL LIST**

WATER USE	SIZE	QUANTITY	KEY	BOTANICAL NAME ... COMMON NAME
<b>SHRUBS:</b>				
MEDIUM	5 G.C.	11	ABE.	ABELIA 'KALEIDOSCOPE' ... KALEIDOSCOPE ABELIA
LOW	5 G.C.	4	ACA.	ACACIA COGNATA 'COUSIN ITT' ... COUSIN ITT ACACIA
LOW	5 G.C.	5	ANI.	ANIGOZANTHOS RUFUS 'BACKDRAFT' ... RED KANGAROO PAW
MEDIUM	5 G.C.	1	AGA.	AGAPANTHOS ORIENTALIS ... LILY-OF-THE-NILE
MEDIUM	5 G.C.	1	AZA.A.	AZALEA 'AUTUMN STARBURST' ... AUTUMN STARBURST ENCORE AZALEA
MEDIUM	5 G.C.	1	AZA.P.	AZALEA 'AUTUMN AMETHYST' ... AUTUMN AMETHYST ENCORE AZALEA
LOW	5 G.C.	2	BER.	BERGENIA CRASSIFOLIA ... WINTER BLOOMING BERGENIA
LOW	5 G.C.	2	CAL.	CALUSTEMON 'LITTLE JOHN' ... LITTLE JOHN BOTTLE BRUSH
LOW	5 G.C.	1	CIS.	CISTUS 'DORIS HIBBERSON' ... PINK ROCKROSE
MEDIUM	5 G.C.	2	COP.	COPROSMA REPENS 'MARBLE QUEEN' ... MARBLE QUEEN MIRROR PLANT
LOW	5 G.C.	1	ECH.	ECHIUM CANDICANS ... PRIDE OF MADEIRA
LOW	5 G.C.	1	ERY.	ERYSIUM 'BOWLES MAUIVE' ... WALLFLOWER
LOW	5 G.C.	7	EUO.	EUONYMUS JAPONICUS 'SILVER KING' ... SILVER KING EUONYMUS
MEDIUM	5 G.C.	3	GAR.	GARDENIA JASMINOIDES 'RADICANS' ... DWARF GARDENIA
MEDIUM	5 G.C.	1	JUN.	JUNCUS EFFUSUS ... SOFT RUSH
MEDIUM	5 G.C.	3	HYP.	HYPERICUM MOSEERANUM ... GOLD FLOWER
LOW	5 G.C.	1	LAG.	LAGERSTROEMIA 'PETITE RED' ... DWARF RED CRAPE MYRTLE
LOW	5 G.C.	5	LAN.	LANTANA SELLOWIANA 'WHITE' ... WHITE TRAILING LANTANA
LOW	5 G.C.	4	LIR.	LIRIOPE MUSCARI 'MAJESTIC' ... LILY TURF
MEDIUM	5 G.C.	2	LOR.	LOROPETALUM 'PURPLE DIAMOND' ... SEMI-DWARF FRINGE FLOWER
MEDIUM	5 G.C.	2	MAH.	MAHONIA EURYBRACTEATA 'SOFT CARESS' ... SOFT CARESS MAHONIA
LOW	5 G.C.	2	MUH.C.	MUHLEBERGIA CAPILLARIS 'LENCA' ... REGAL MIST PINK MUHLY GRASS
LOW	5 G.C.	4	MUH.P.	MUHLEBERGIA RIGENS ... DEER GRASS
LOW	5 G.C.	1	PHO.	PHORMIUM TENAX 'RUBRUM' ... RED NEW ZEALAND FLAX
MEDIUM	5 G.C.	2	POL.	POLYSTICHUM MUNITUM ... WESTERN SWORD FERN
MEDIUM	5 G.C.	6	PRU.	PRUNUS LAUCERASUS 'ZABELIANA' ... ZABELIANA CHERRY LAUREL
MEDIUM	5 G.C.	18	RHA.B.	RHAPHIOLEPIS INDICA 'BALLERINA' ... DWARF INDIA HAWTHORN
LOW	5 G.C.	2	RHA.U.	RHAPHIOLEPIS UMBELLATA 'MINOR' ... DWARF YEDDO HAWTHORN
MEDIUM	5 G.C.	30	SAL.	SALVIA MICROPHYLLA 'HOT LIPS' ... HOT LIPS SAGE
<b>VINE:</b>				
MEDIUM	1 G.C.	21	TRA.	TRACHELOSPERMUM JASMINOIDES ... STAR JASMINE

NOTE: SEE SHEET L1.1 FOR GENERAL LANDSCAPE REQUIREMENTS/NOTES.

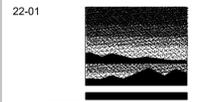


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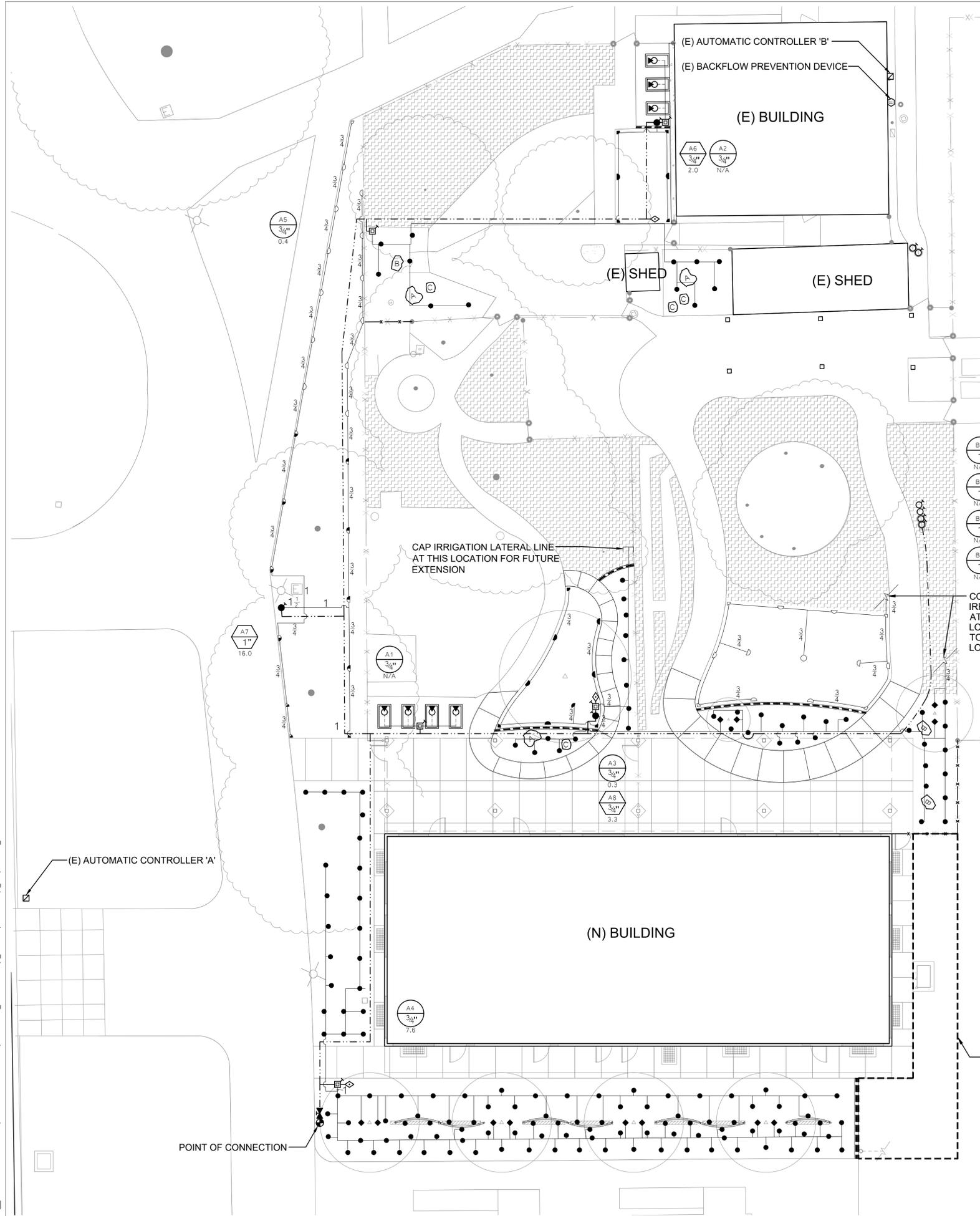
TURF/SHRUB PLANTING PLAN

AUGUST 15, 2022

DRAWN BY: SL  
 CHECKED BY: RL  
 JOB NO: 21052

**L2.1**

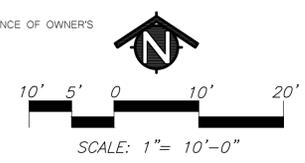
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KEY	SPRINKLER IRRIGATION LEGEND
	<b>EXISTING AUTOMATIC CONTROLLER:</b>
	<b>EXISTING BACKFLOW PREVENTION DEVICE:</b>
	<b>POINT OF CONNECTION:</b> IRRIGATION SYSTEM OPERATING WATER PRESSURE: 45 PSI MAXIMUM FLOW IS 50 GPM  CONTRACTOR SHALL LOCATE EXISTING MAINLINE SHOWN ON PLANS. CONNECT AT THIS POINT AND EXTEND AS INDICATED ON DRAWINGS.
	<b>GATE VALVE:</b> TYPE: NIBCO NO T-113 WITH A NON-RISING STEM AND HANDWHEEL.  GATE VALVE INSTALLED IN A VALVE BOX WITH TOP OF BOX SET FLUSH TO FINISH GRADE. GATE VALVE TO BE LINE SIZE.
	<b>PRESSURE MAIN LINE:</b> TYPE: 2" SIZE, ASTM D1785, PVC SCHEDULE 40.  TRENCH DEPTH: IN PLANTED AREAS: 24" MINIMUM COVER. UNDER PAVED AREAS: 24" MINIMUM COVER. PVC SCHEDULE 40 SLEEVES ARE REQUIRED FOR ALL PIPING UNDER PAVEMENT.
	<b>LATERAL LINE:</b> TYPE: ASTM D1785, PVC SCHEDULE 40, SOLVENT WELD ALL UNSIZED PIPE SHALL BE 3/4" SIZE. TRENCH DEPTH: IN PLANTED AREAS: POP-UP SPRAY HEADS - 12" MINIMUM COVER. BUBBLER HEADS - 12" MINIMUM COVER. UNDER PAVED AREAS: 24" MINIMUM COVER. PVC SCHEDULE 40 SLEEVES ARE REQUIRED FOR ALL PIPING UNDER PAVEMENT.
	<b>AUTOMATIC CONTROL VALVE:</b> TORO 700 SERIES OR APPROVED EQUAL. VALVE SHALL HAVE PRESSURE REGULATION OPTION.
	<b>QUICK COUPLER VALVE:</b> RAINBIRD 44NP OR APPROVED EQUAL. VALVES SHALL HAVE LOCKING RUBBER COVERS, INSTALLED IN VALVE BOXES. TOP OF VALVE BOX SHALL HAVE BOLT DOWN LID AND TOP SET LEVEL TO FINISH GRADE.
	<b>LAWN POP-UP SPRAY HEADS:</b> RAINBIRD; RD06-S-P45 BODY WITH HUNTER MP1000 SERIES NOZZLES. (45 PSI REGULATION) FULL, HALF, AND QUARTER SPRAY PATTERNS.
	<b>LAWN POP-UP SPRAY HEADS:</b> RAINBIRD; RD06-S-P45 BODY WITH HUNTER MP800SR SERIES NOZZLES. (45 PSI REGULATION) FULL, HALF, AND QUARTER SPRAY PATTERNS.
	<b>LAWN POP-UP SPRAY HEADS:</b> RAINBIRD; RD06-S-P45 BODY WITH HUNTER MP815 SERIES NOZZLES. (45 PSI REGULATION) FULL, HALF, AND QUARTER SPRAY PATTERNS.
	<b>SHRUB BUBBLER HEADS:</b> HUNTER; HEB-20 WITH 1H RISER.
	<b>TREE BUBBLER HEADS:</b> HUNTER; RZWS-18-50-CV ROOT ZONE WATER SYSTEM WITH CHECK VALVE.
	<b>AUTOMATIC DRIP IRRIGATION VALVE/FILTER/PRESSURE REGULATOR:</b> TORO DRIP ZONE VALVE KIT 700DK-LF SERIES.
	<b>DRIP LATERAL WITH FLUSH PLUG:</b> PVC SCHEDULE 40, SOLVENT WELD. ALL UNSIZED PIPE TO BE 3/4" SIZE. PVC SCHEDULE 40 SLEEVES ARE REQUIRED FOR ALL PIPING UNDER PAVEMENT.
	INDICATES CONTROL VALVE AND STATION NUMBER
	INDICATES CONTROL VALVE SIZE
	INDICATES GALLONS PER MINUTE
	<b>EXISTING TREE PROTECTION AREA:</b> THE PROTECTION AREA UNDER ANY EXISTING TREE THAT IS TO REMAIN IS DEFINED BY ITS DRIP LINE OR CANOPY COVER. WITHIN THIS AREA NO STORAGE OR PARKING WILL BE PERMITTED. ALL TRENCHING WILL BE PERFORMED BY HAND. DO NOT CUT ROOTS 1" IN DIAMETER OR LARGER. USE BORING PROCEDURES WHEN ENCOUNTERING ROOTS 1" SIZE AND LARGER. NO ROOTS ARE TO BE EXPOSED LONGER THAN 48 HOURS.

**SPRINKLER IRRIGATION NOTES**

- COMPOSITE BASE SHEET. PROPOSED IMPROVEMENTS SHOWN ON DRAWINGS ARE SUPERIMPOSED ON A COMPOSITE BASE SHEET. THE COMPOSITE BASE SHEET IS A COMPILATION OF ARCHITECTURAL, ENGINEERING, AND OTHER DATA THAT IS PROVIDED. THE LANDSCAPE ARCHITECT SHALL NOT BE HELD LIABLE FOR CHANGES, INACCURACIES, OMISSIONS, OR ERRORS PERTAINING TO THE COMPOSITE BASE SHEET. CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THESE DOCUMENTS. ANY DISCREPANCIES NEED TO BE BROUGHT TO THE ATTENTION OF THE DESIGN TEAM AND RESOLVED PRIOR TO CONTINUATION OF WORK.
- DESIGN PRESSURE SHOWN ON PLANS HAS BEEN FURNISHED BY WATER COMPANY OR WATER DISTRICT SERVING SITE. VERIFY PRESSURE ON-SITE PRIOR TO THE INSTALLATION OF ANY SPRINKLER IRRIGATION EQUIPMENT. IF THERE IS A DISCREPANCY, NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY IN WRITING SO ADJUSTMENTS CAN BE MADE BY LANDSCAPE ARCHITECT. FAILURE TO REPORT DISCREPANCIES AND CONTINUANCE OF WORK WILL RESULT IN ALL RE-DESIGN COSTS BEING CHARGED TO CONTRACTOR.
- DETERMINE LOCATION OF UNDERGROUND UTILITIES. DAMAGE CAUSED BY INSTALLATION OF THIS WORK SHALL BE REPAIRED TO SATISFACTION OF GOVERNING AGENCY OR OWNER AT NO ADDITIONAL COST TO THE CONTRACT.
- SPRINKLER OVER SPRAY SHALL NOT BE ALLOWED ON PUBLIC SIDEWALKS, BUILDING WALLS OR FENCES. MINIMUM OVERSPRAY MAY OCCUR IN PARKING AREAS. USE ADJUSTABLE NOZZLES WHENEVER POSSIBLE TO CONTROL SPRINKLER OVERSPRAY.
- ALL LOCAL CODES AND ORDINANCES SHALL BE COMPLIED WITH. IF THERE IS A CONFLICT, NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY.
- TESTING:  
A. PRESSURE TEST ALL UNDERGROUND PIPING AS FOLLOWS:  
SYSTEMS WITH BOOSTER PUMP:  
MAIN LINE - AT 100 PSI FOR 4 HOURS.  
LATERAL LINES - AT 100 PSI FOR 2 HOURS.  
SYSTEMS WITH OUT BOOSTER PUMP:  
MAIN LINE - AT STATIC PSI FOR 4 HOURS.  
LATERAL LINES - AT STATIC PSI FOR 2 HOURS.  
B. COVERAGE TEST: NOTE: PRIOR TO REQUESTING COVERAGE TEST, INSURE ALL HEADS ARE SET PLUMB, NOZZLES ARE ADJUSTED PROPERLY AND SYSTEM HAS BEEN CHECKED FOR AUTOMATION. REQUEST OWNER'S REPRESENTATIVES PRESENCE ON-SITE WHEN SPRINKLER SYSTEM IS COMPLETELY INSTALLED AND FULLY AUTOMATIC. PROVIDE ADEQUATE PERSONNEL AT THIS MEETING TO ADJUST AND FINE TUNE SYSTEM TO SATISFACTION OF OWNER'S REPRESENTATIVE.
- LAYOUT ALL WORK PRIOR TO TRENCHING OPERATIONS TO DETERMINE IF MINOR MODIFICATIONS OR ADJUSTMENTS WILL BE REQUIRED.
- INSTALL ALL SPRINKLER HEADS PERPENDICULAR TO SLOPES OR GRADE.
- CONTROL WIRE SHALL BE UF-14, COLOR FOR LEAD AND WHITE FOR COMMON. SPLICES SHALL BE PERMITTED AT VALVE BOX LOCATIONS ONLY.
- PROVIDE AND INSTALL AUTOMATIC CONTROLLER AND UF-14 CONTROL WIRE. ELECTRICAL SUBCONTRACTOR SHALL PROVIDE 110V SERVICE AND SERVICE HOOKUP FROM POWER SOURCE TO AUTOMATIC CONTROLLER.
- COORDINATE ALL WORK WITH OTHER TRADES SO PROGRESS OF WORK IS NOT INTERRUPTED AND CAN BE COMPLETED IN A TIMELY MANNER.
- NO PLANTING SHALL BE STARTED UNTIL ALL SPRINKLER WORK HAS BEEN TESTED AND APPROVED IN PRESENCE OF OWNER'S REPRESENTATIVE.
- FOR SPRINKLER IRRIGATION INSTALLATION DETAILS, SEE SHEET NO. L4.1.

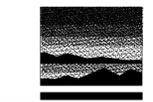


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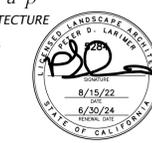
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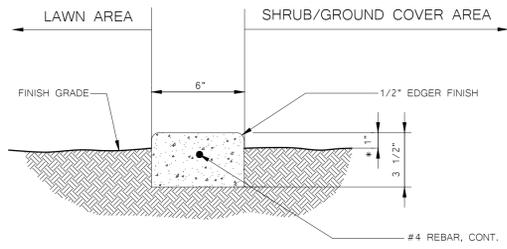
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LANDSCAPE IRRIGATION PLAN

AUGUST 15, 2022

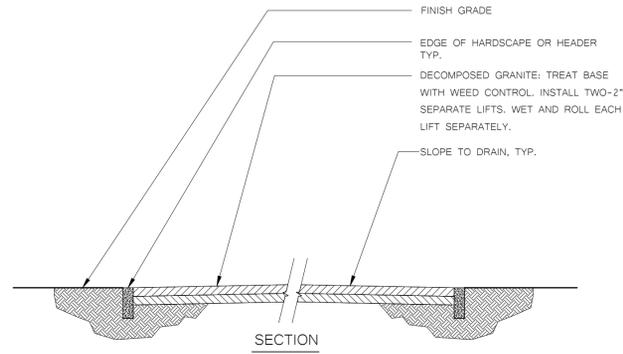
DRAWN BY: SL  
CHECKED BY: RL  
JOB NO: 21052  
**L3.1**

- NOTES:
- USE 1/2" FELT EXPANSION JOINT MATERIAL AT ALL CHANGES OF DIRECTIONS AND AT 10' O.C.
  - WHEN SURFACE DRAINAGE IS INTENDED TO FLOW TOWARD AND ACROSS MOWSTRIP, SOIL SURFACE SHALL BE FLUSH WITH TOP OF MOWSTRIP, UNLESS OTHERWISE NOTED SOIL SHALL BE 1" BELOW TOP OF MOWSTRIP.
  - ALL CONCRETE SHALL BE 5 SACK MIX, 2800 PSI AT 28 DAYS AFTER POUR.
  - FINISH SHALL BE FINE BROOM.

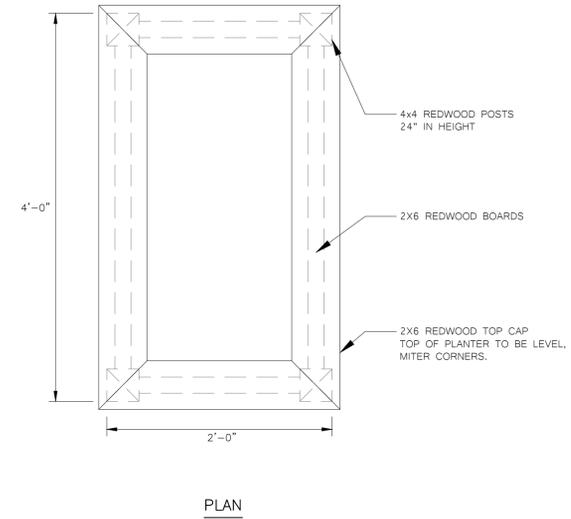
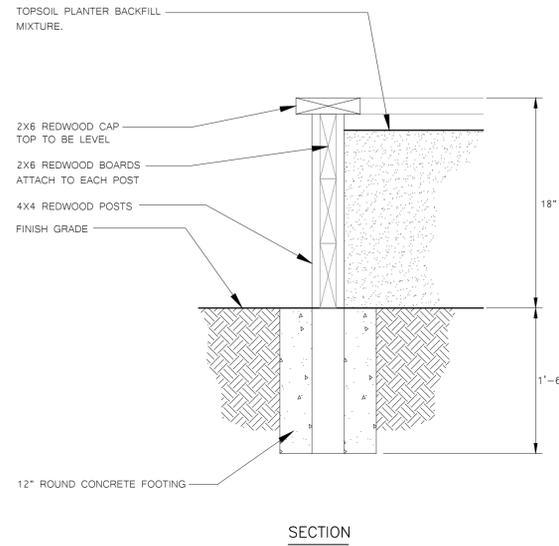


1 6" CONCRETE MOWSTRIP DETAIL

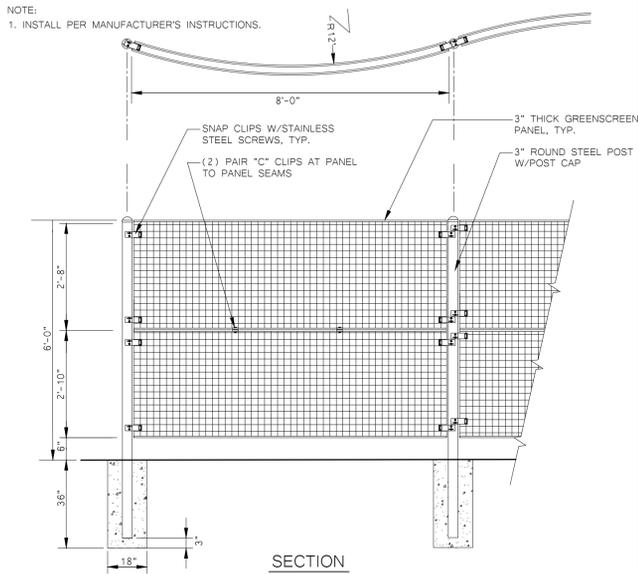
- NOTES:
- SUBMIT SAMPLE TO ARCHITECT FOR APPROVAL PRIOR TO ORDERING.
  - DECOMPOSED GRANITE SHALL HAVE A MIXTURE OF FINE TO 3/8" SIZE PARTICLES WITH NO CLODS OF DEBRIS.
  - THE MATERIAL SHALL BE FREE OF VEGETATION, OTHER SOILS, DEBRIS AND ROCKS.
  - THE MATERIAL SHALL BE REDDISH-BROWN IN COLOR.
  - THE MATERIAL SHALL BE OF SUCH NATURE THAT IT CAN BE COMPACTED TO 90% READILY UNDER WATERING AND ROLLING.



2 DECOMPOSED GRANITE DETAIL



3 WOOD PLANTER BOX



4 GREEN SCREEN DETAIL

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-120119 INC:  
REVIEWED FOR  
SS  FLS  ACS   
DATE: 08/23/2022

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LICENSED ARCHITECT  
SCOTT CAMERON FULTON  
No. 12166  
REN. 12/31/23  
STATE OF CALIFORNIA

22-01  
**MTW group**  
LANDSCAPE ARCHITECTURE  
AND PLANNING  
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DSA #02-120119  
FILE #48-C1  
**EARLY LEARNING CENTER**

SOLANO COMMUNITY COLLEGE  
4000 SUISUN VALLEY RD.  
FAIRFIELD, CA 94534

**SUBMITTAL SET**  
REVISIONS

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LANDSCAPE CONSTRUCTION DETAILS  
AUGUST 15, 2022

DRAWN BY: SL  
CHECKED BY: RL  
JOB NO: 21052

**L4.1**

8/15/2022 5:17 PM PETER20 I:\\_MTW\_SHARED\_PROJECTS\ACTIVE AUTOCAD FILES\22001HML\_SOLANO ECLY\_DESIGN\DRAWING\2\_CD\OUTPUT\_22001.DWG

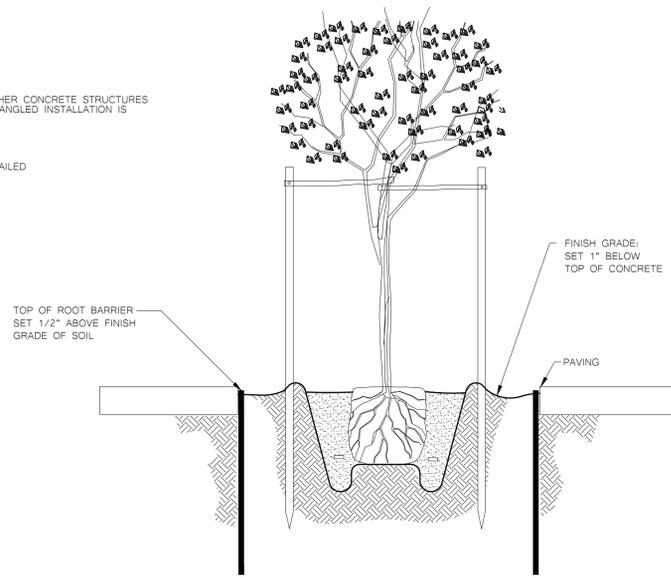
NOTE:  
1. SEE TREE PLANTING DETAIL FOR ADDITIONAL INFORMATION.

**TREE ROOT BARRIER PROTECTION**

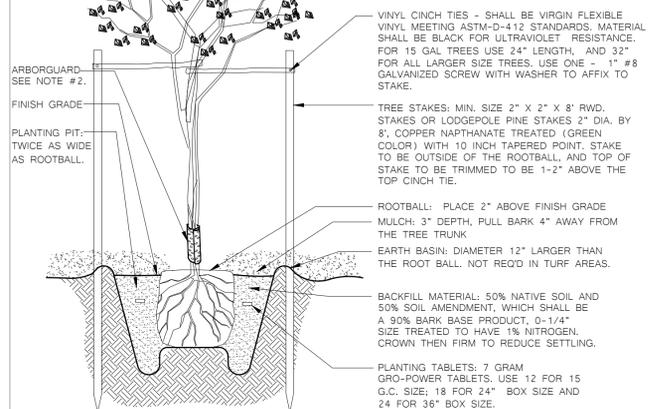
- CONTRACTOR TO REMOVE ALL CONCRETE SPOILS FROM FLATWORK, CURBS OR OTHER CONCRETE STRUCTURES TO ENSURE THE ROOT BARRIER IS ADJACENT TO THE CONCRETE AND VERTICAL. ANGLED INSTALLATION IS NOT ACCEPTABLE.
- TREE SHALL BE LOCATED IN CENTER OR MIDPOINT OF PLANTER.
- TREE ROOT BARRIER IS TO BE INSTALLED IN LOCATIONS SHOWN ON THE PLANS.
- TREE ROOT BARRIER SHALL BE INSTALLED ADJACENT TO EDGE OF PAVING AS DETAILED.
- PLACE ROOT BARRIER SO THAT VERTICAL RIBS FACE TOWARD THE TREE.

**ROOT BARRIER**

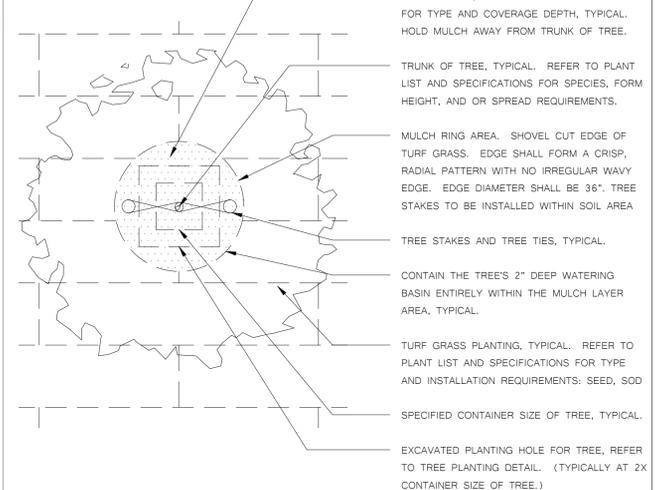
BY: DEEP ROOT PARTNERS OR  
NDS INC. OR APPROVED EQ.  
15 GAL SIZE TREE OR LARGER:  
24" MODULAR ROOT BARRIER PANEL



- NOTES:
- VITAMIN B-1: SUPERTHRIVE, LIQUINOX START OR EQUAL. APPLY AS PER MANUFACTURER'S INSTRUCTIONS WITH THE SECOND WATERING OF THE BASIN.
  - INSTALL ARBORGUARD TREE PROTECTION WHEN TREES ARE IN LAWN AREAS.
  - TREE TO HAVE DOMINANT MAIN LEADER.
  - TREE STAKES ARE INTENDED TO HOLD THE TREE UPRIGHT, IF NEEDED, TALLER TREE STAKES ARE TO BE USED.
  - TREE BRANCHES EXTENDING MORE THAN 4" OVER A WALKWAY MUST BE PRUNED UP TO AN 80" CLEARANCE PER CBC 11338.8.6.1



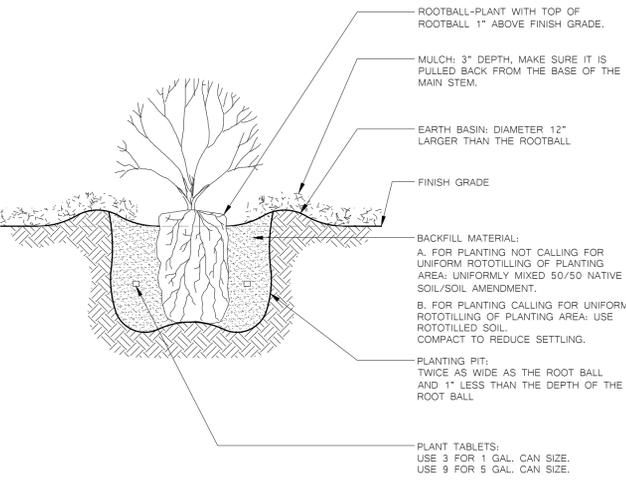
- NOTES:
- IF SOD IS NOT USED, CONTRACTOR SHALL REMOVE AN 36" ROUND AREA OF LAWN TO CREATE A "MULCH RING".
  - THE "MULCH RING" TO BE CENTERED ON THE TREE TRUNK AND THE TREE STAKES TO BE INSTALLED WITHIN THE "MULCH RING"



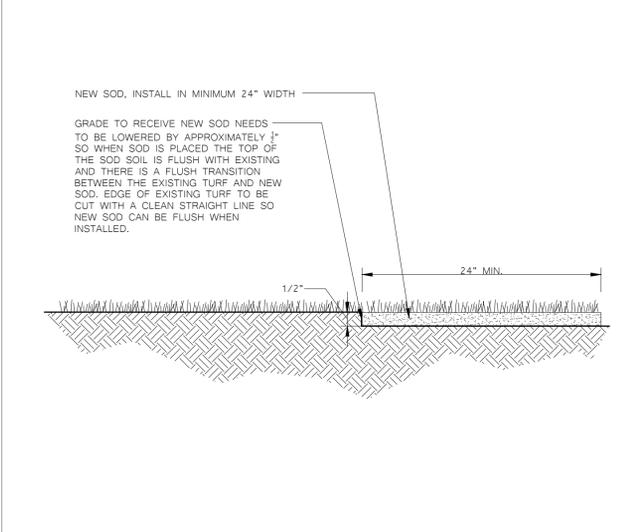
1

**ROOT BARRIER CONTROL DETAIL**

NOTE: VITAMIN B-1 SUPERTHRIVE LIQUINOX OR EQUAL. APPLY AS PER MANUFACTURER'S INSTRUCTIONS WITH SECOND WATERING OF THE BASIN.



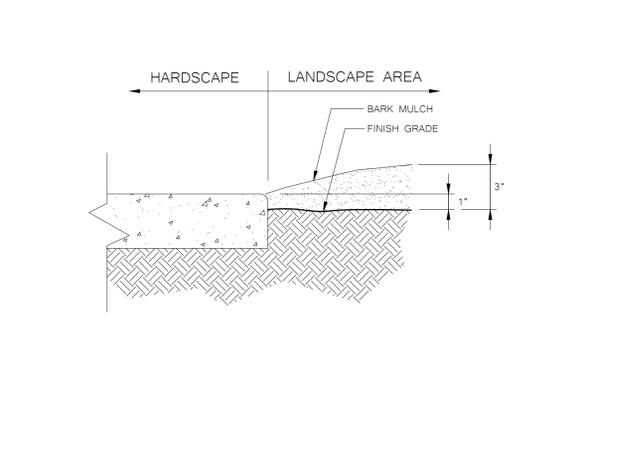
NOTE:  
1. SEE SPECIFICATIONS FOR SOD BLEND.



2

**TREE PLANTING AND STAKING DETAIL**

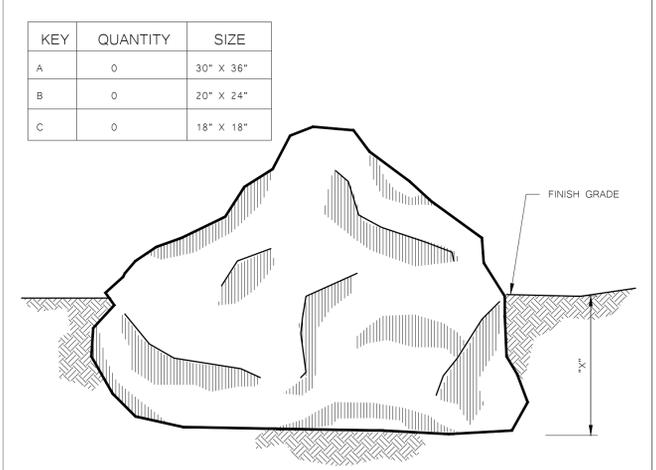
- NOTES:
- FINISH GRADE OF SOIL TO BE 1" BELOW ADJACENT HARDSCAPE FOR BOTH LAWN AREAS AND PLANTER BED AREAS
  - BARK MULCH DEPTH DOES NOT DICTATE THE ELEVATION OF THE FINISH GRADE
  - BARK MULCH TO BE FEATHERED DOWN TO 1" DEPTH, 12" FROM EDGE OF HARDSCAPE



3

**TREE MULCH RING IN TURF GRASS**

- NOTES:
- ALL ROCKS SHALL BE FIELDSTONE, NATIVE TO PLACER COUNTY, AND ARE SUBJECT TO APPROVAL OF LANDSCAPE ARCHITECT.
  - "X" = ROCK TO BE SET AT A DEPTH OF APPROXIMATELY 1/3 ITS OVERALL HEIGHT.
  - FINAL PLACEMENT SHALL BE AS DIRECTED BY LANDSCAPE ARCHITECT.



4

**SHRUB PLANTING DETAIL**

5

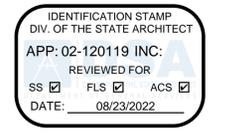
**TURF REPAIR WITH SOD DETAIL**

6

**LANDSCAPE GRADE ADJACENT TO HARDSCAPE DETAIL**

7

**FIELDSTONE INSTALLATION DETAIL**

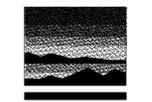


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**DSA #02-120119**  
**FILE #48-C1**  
**EARLY LEARNING CENTER**

**SOLANO COMMUNITY COLLEGE**  
**4000 SUISUN VALLEY RD.**  
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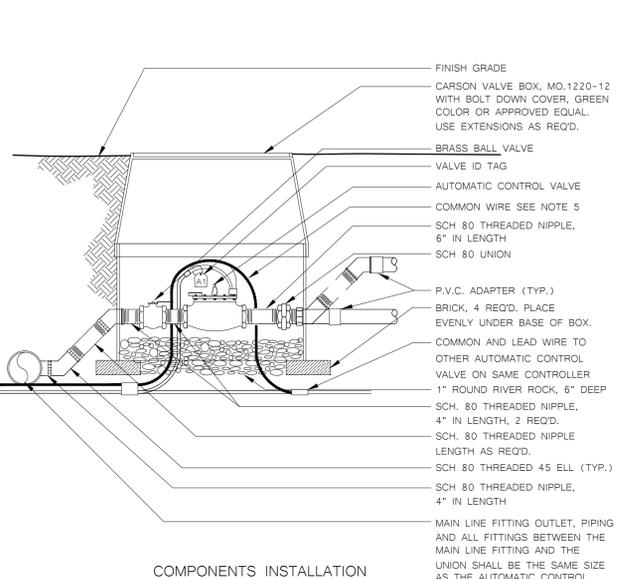
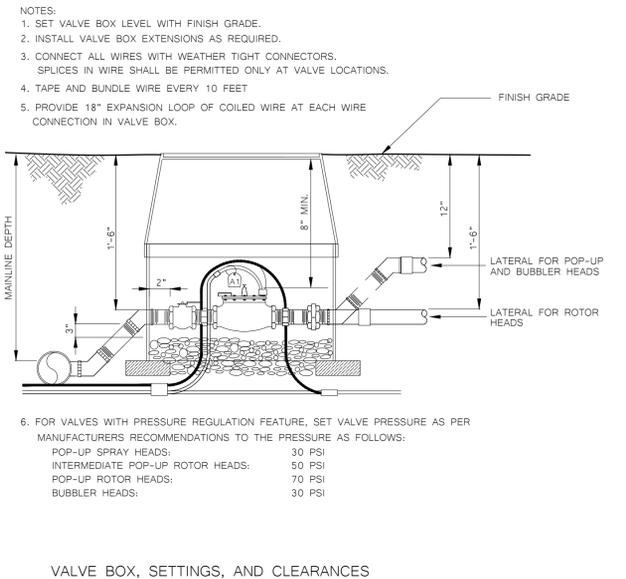
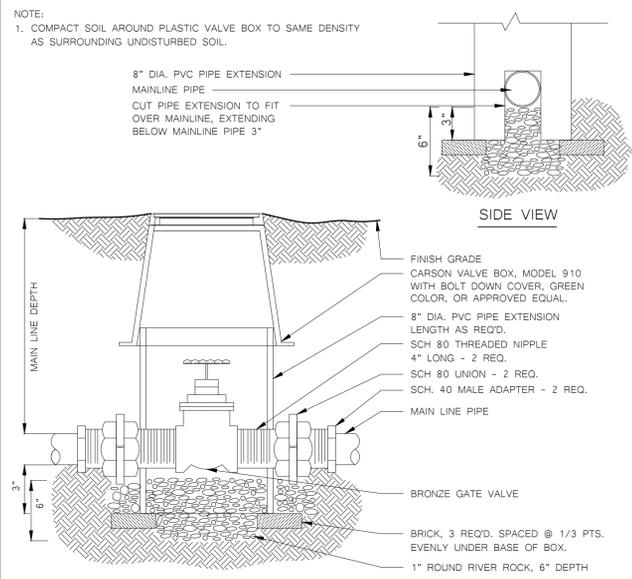
**LANDSCAPE PLANTING DETAILS**

AUGUST 15, 2022

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SL  
CHECKED BY:  
RL  
JOB NO:  
21052

**L4.2**

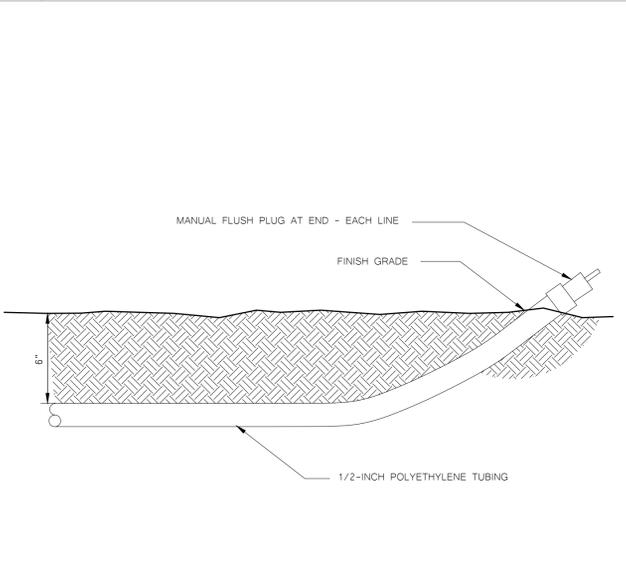
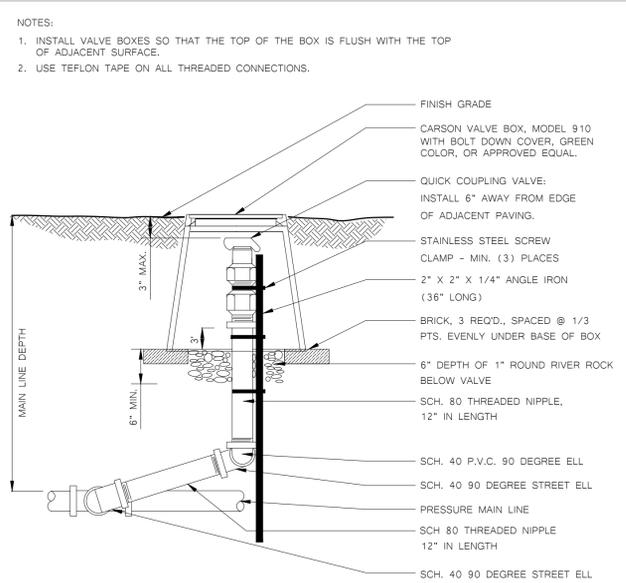
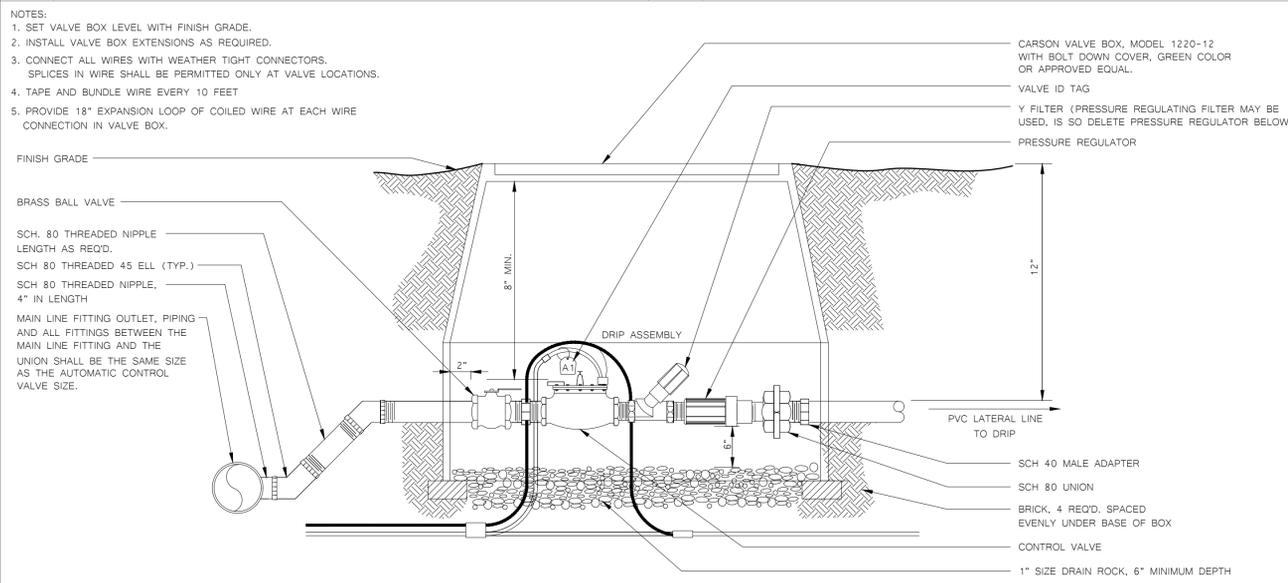
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1 GATE VALVE DETAIL, 3" SIZE AND SMALLER

2 AUTOMATIC CONTROL VALVE/BALL VALVE DETAIL

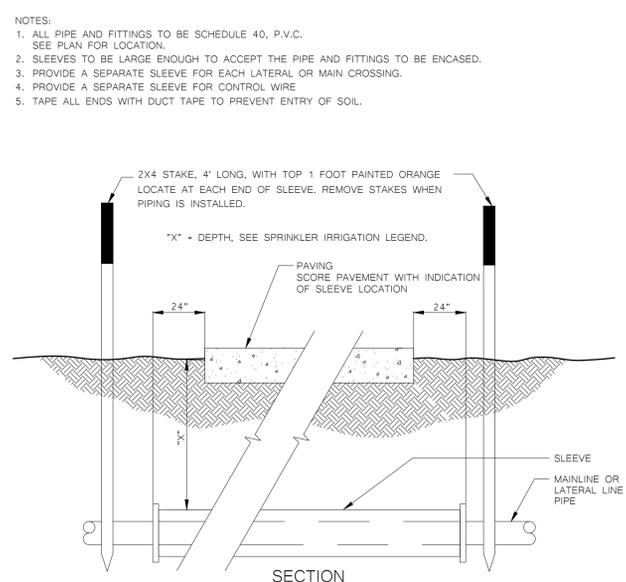
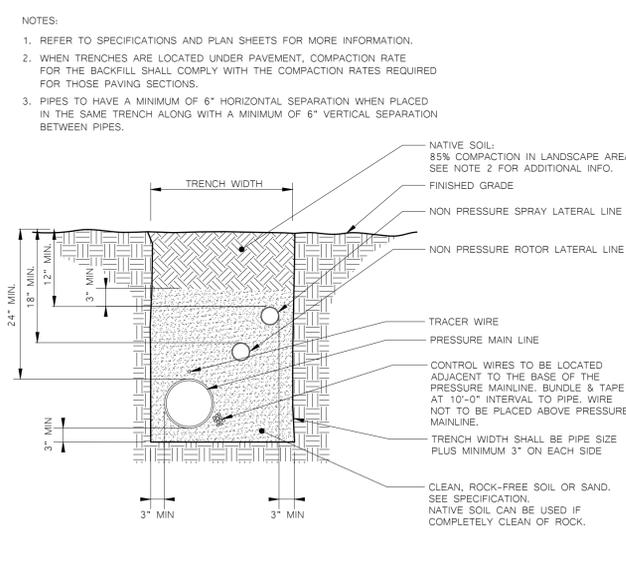
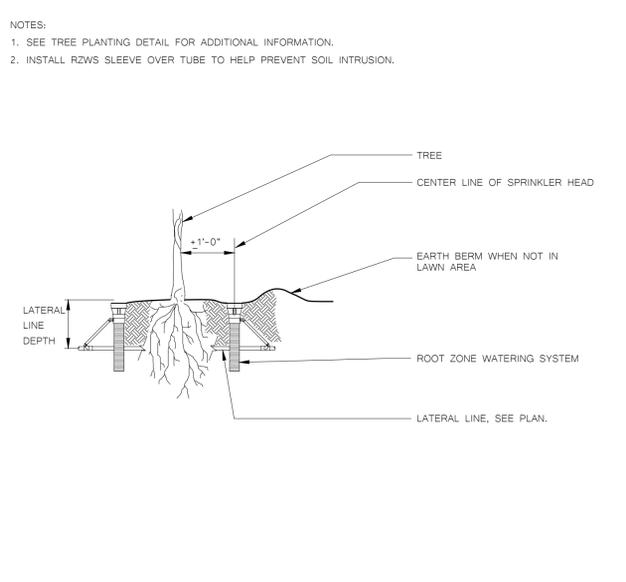
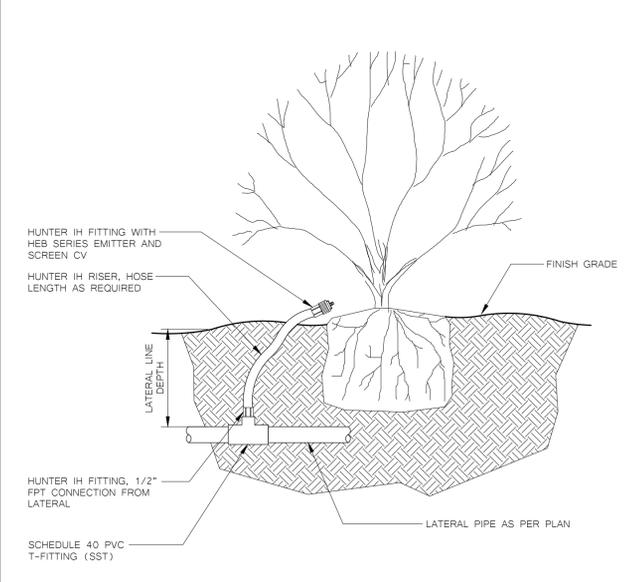
3 POP-UP SPRINKLER HEAD DETAIL



4 PRESSURE REGULATOR DRIP IRRIGATION VALVE DETAIL

5 QUICK COUPLING VALVE DETAIL

6 FLUSH PLUG DETAIL



7 SHRUB BUBBLER DETAIL

8 TREE BUBBLER HEAD DETAIL

9 PIPE TRENCH DETAIL

10 SLEEVE DETAIL

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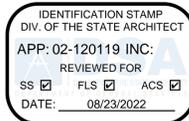
LANDSCAPE IRRIGATION DETAILS

AUGUST 15, 2022

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**L4.3**

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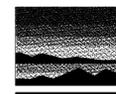


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LANDSCAPE IRRIGATION SCHEDULE AND WATER USE CALCULATIONS

AUGUST 15, 2022

DRAWN BY: SL  
CHECKED BY: RL  
JOB NO: 21052

**L5.1**

**IRRIGATION SCHEDULE TABLE**

STATION #/HYDROZONE	PLANT WATER USE TYPE	PLANT FACTOR (PF)	IRRIGATION TYPE	FLOW (GPM)	PRECIP. RATE (PR) INCH/HR	IRRIGATION EFFICIENCY (IE)	SOIL TYPE	ROOT DEPTH	SLOPE	EXPOSURE	MAINTENANCE PERIOD (X/Y Z GAL)																																
											JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER																					
A1	GARDEN BOX - HIGH	0.7	POINT SOURCE DRIP	0.0	0.50	0.81	SANDY LOAM	6"	0-5%	FULL SUN	0 /1	0 GAL	0 /1	0 GAL	0 /1	0 GAL	35 /2	0 GAL	41 /3	0 GAL	31 /5	0 GAL	40 /5	0 GAL	26 /6	0 GAL	40 /3	0 GAL	49 /1	0 GAL	0 /1	0 GAL	0 /1	0 GAL									
A2	GARDEN BOX - HIGH	0.7	POINT SOURCE DRIP	0.0	0.50	0.81	SANDY LOAM	6"	0-5%	FULL SUN	0 /1	0 GAL	0 /1	0 GAL	0 /1	0 GAL	35 /2	0 GAL	41 /3	0 GAL	31 /5	0 GAL	40 /5	0 GAL	26 /6	0 GAL	40 /3	0 GAL	49 /1	0 GAL	0 /1	0 GAL	0 /1	0 GAL									
A3	SHRUB - LOW	0.2	BUBBLER	0.3	0.50	0.81	SANDY LOAM	6"	0-5%	FULL SUN	0 /1	0 GAL	0 /1	0 GAL	0 /1	0 GAL	10 /2	27 GAL	12 /3	46 GAL	9 /5	58 GAL	12 /5	77 GAL	7 /6	59 GAL	11 /3	45 GAL	14 /1	19 GAL	0 /1	0 GAL	0 /1	0 GAL									
A4	SHRUB - LOW	0.2	BUBBLER	7.6	0.50	0.81	SANDY LOAM	6"	0-5%	FULL SUN	0 /1	0 GAL	0 /1	0 GAL	0 /1	0 GAL	10 /2	672 GAL	12 /3	1,169 GAL	9 /5	1,468 GAL	12 /5	1,941 GAL	7 /6	1,493 GAL	11 /3	1,145 GAL	14 /1	473 GAL	0 /1	0 GAL	0 /1	0 GAL									
A5	SHRUB - LOW	0.2	BUBBLER	0.4	0.50	0.81	SANDY LOAM	6"	0-5%	FULL SUN	0 /1	0 GAL	0 /1	0 GAL	0 /1	0 GAL	10 /2	35 GAL	12 /3	62 GAL	9 /5	77 GAL	12 /5	102 GAL	7 /6	79 GAL	11 /3	60 GAL	14 /1	25 GAL	0 /1	0 GAL	0 /1	0 GAL									
A6	LAWN - HIGH	0.8	MP ROTATOR	2.0	0.45	0.75	SANDY LOAM	6"	0-5%	FULL SUN	0 /1	0 GAL	0 /1	0 GAL	0 /1	0 GAL	48 /2	849 GAL	56 /3	1,477 GAL	42 /5	1,854 GAL	55 /5	2,452 GAL	36 /6	1,886 GAL	55 /3	1,446 GAL	68 /1	597 GAL	0 /1	0 GAL	0 /1	0 GAL									
A7	LAWN - HIGH	0.8	MP ROTATOR	16.0	0.45	0.75	SANDY LOAM	6"	0-5%	FULL SUN	0 /1	0 GAL	0 /1	0 GAL	0 /1	0 GAL	48 /2	6,789 GAL	56 /3	11,818 GAL	42 /5	14,835 GAL	55 /5	19,613 GAL	36 /6	15,087 GAL	55 /3	11,567 GAL	68 /1	4,778 GAL	0 /1	0 GAL	0 /1	0 GAL									
A8	LAWN - HIGH	0.8	MP ROTATOR	3.3	0.45	0.75	SANDY LOAM	6"	0-5%	FULL SUN	0 /1	0 GAL	0 /1	0 GAL	0 /1	0 GAL	48 /2	1,400 GAL	56 /3	2,437 GAL	42 /5	3,060 GAL	55 /5	4,045 GAL	36 /6	3,112 GAL	55 /3	2,396 GAL	68 /1	985 GAL	0 /1	0 GAL	0 /1	0 GAL									
MONTHLY RAINFALL (FAIRFIELD)											4.8		4.9		3.4		1.3		0.8		0.2		0		0		0.2		1.2		2.9		5.1										
MONTHLY ET (FAIRFIELD)											1.1	JAN	1.7	FEB	2.8	MAR	4.0	APR	5.5	MAY	6.1	JUN	7.8	JUL	6.0	AUG	4.8	SEP	3.1	OCT	1.4	NOV	0.9	DEC									
MONTHLY TOTALS (GAL)												0 GAL		0 GAL		0 GAL		9,772 GAL		17,010 GAL		21,353 GAL		28,229 GAL		21,715 GAL		16,648 GAL		6,876 GAL		0 GAL		0 GAL		0 GAL		0 GAL		0 GAL		0 GAL	

**IRRIGATION HYDROZONE INFORMATION TABLE**

STATION #/HYDROZONE	PLANT WATER USE TYPE	PLANT FACTOR (PF)	HYDROZONE AREA (HA) (SQ.FT.)	PF x HA (SQ.FT.)	IRRIGATION EFFICIENCY (IE)	ETWU (GALLONS)	
A1	GARDEN BOX - HIGH	0.7	32	22.4	0.81	775	
A2	GARDEN BOX - HIGH	0.7	24	16.8	0.81	581	
A3	SHRUB - LOW	0.2	132	26.4	0.81	913	
A4	SHRUB - LOW	0.2	2,277	455.4	0.81	15,756	
A5	SHRUB - LOW	0.2	456	91.2	0.81	3,155	
A6	LAWN - HIGH	0.8	189	151.2	0.75	5,650	
A7	LAWN - HIGH	0.8	1,405	1,124.0	0.75	41,999	
A8	LAWN - HIGH	0.8	306	244.8	0.75	9,147	
TOTAL AREA			4,821			ETWU TOTAL	77,976
TOTAL AREA (SLA)			1,956				
Eto (FAIRFIELD) 45.2							
ESTIMATED TOTAL WATER USAGE (ETWU) = (Eto)/(0.62)(PF)(HA)/IE = GAL/YEAR							
MAXIMUM APPLIED WATER ALLOWANCE (MAWA) = (Eto)/(0.62)((0.45 x LA)+(0.55 x SLA)) = GAL/YEAR							
MAWA TOTAL						90,945	

**LANDSCAPE HYDROZONE INFORMATION TABLE**

STATION #/HYDROZONE	PLANT WATER USE TYPE	IRRIGATION TYPE	HYDROZONE AREA (HA) (SQ.FT.)	% OF TOTAL LANDSCAPE AREA
A1	GARDEN BOX - HIGH	POINT SOURCE DRIP	32	0.7%
A2	GARDEN BOX - HIGH	POINT SOURCE DRIP	24	0.5%
A3	SHRUB - LOW	BUBBLER	132	2.7%
A4	SHRUB - LOW	BUBBLER	2,277	47.2%
A5	SHRUB - LOW	BUBBLER	456	9.5%
A6	LAWN - HIGH	MP ROTATOR	189	3.9%
A7	LAWN - HIGH	MP ROTATOR	1,405	29.1%
A8	LAWN - HIGH	MP ROTATOR	306	6.3%
TOTAL AREA			4,821	100.0%

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**DESIGN DEVELOPMENT**

**REVISIONS**

NO.	DESCRIPTION	DATE

SHEET TITLE:

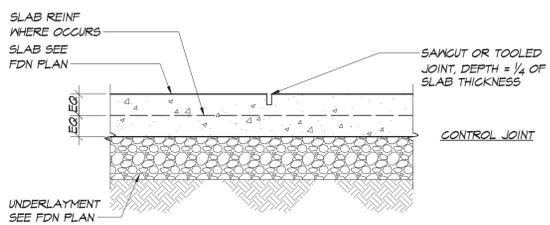
**TYPICAL DETAILS**

DATE: 08/01/22	SHEET NUMBER:
SCALE: AS SHOWN	
DRAWN BY: RGL	
CHECKED BY: JAG	
JOB NO: ATM# 21331	

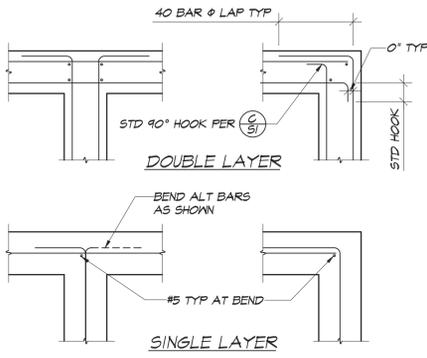
**S1.2**

SPLICE LENGTH (INCHES)						
Fc (PSI)	2500	3,000	3,500	4,000	4,500	5,000
#3	26	23	22	20	18	17
#4	32	29	27	26	25	23
#5	41	37	35	32	30	28
#6	48	43	41	38	36	34
#7	70	63	64	55	52	49
#8	74	72	68	63	60	56
#9	84	81	76	71	67	63
#10	100	91	86	80	75	71

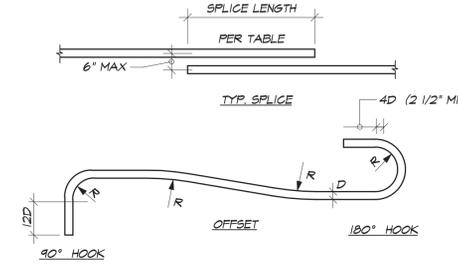
- TABLE INDICATES CLASS B LAP SPLICES FOR 6R.60 REBAR
  - MULTIPLY VALUES ABOVE BY 1.3 FOR LIGHTWEIGHT CONCRETE.
  - MULTIPLY VALUES ABOVE BY 1.3 WHERE MORE THAN 12" OF CONCRETE BELOW.
  - DIVIDE VALUES ABOVE BY 1.3 FOR STRAIGHT BAR DEVELOPMENT LENGTHS.
- D = DIAMETER OF BAR  
 R = RADIUS OF BEND MEASURED ON THE INSIDE OF BAR  
 = 2 1/2 D FOR #2 ONLY  
 = 3D FOR #3 THROUGH #8  
 = 4D FOR #9 THROUGH #11  
 = 5D FOR #14 & #18



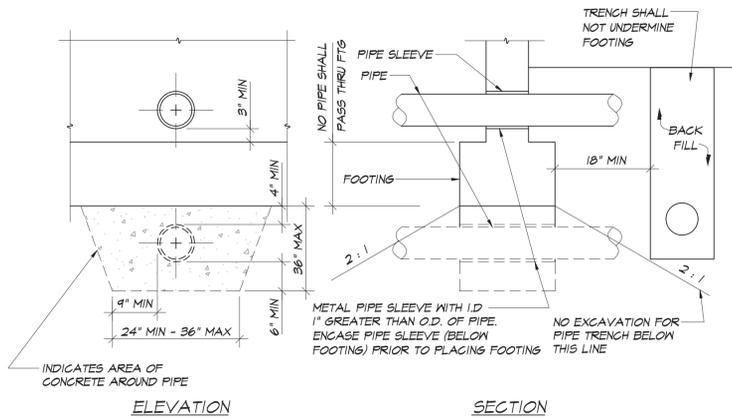
**A FLOOR SLAB JOINTS**  
 S1.2 NOT TO SCALE



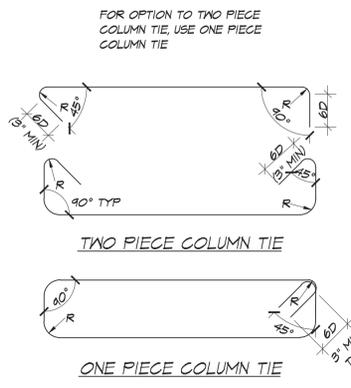
**B TYP REINF AT CORNERS AND INTERSECTIONS**  
 S1.2 NOT TO SCALE



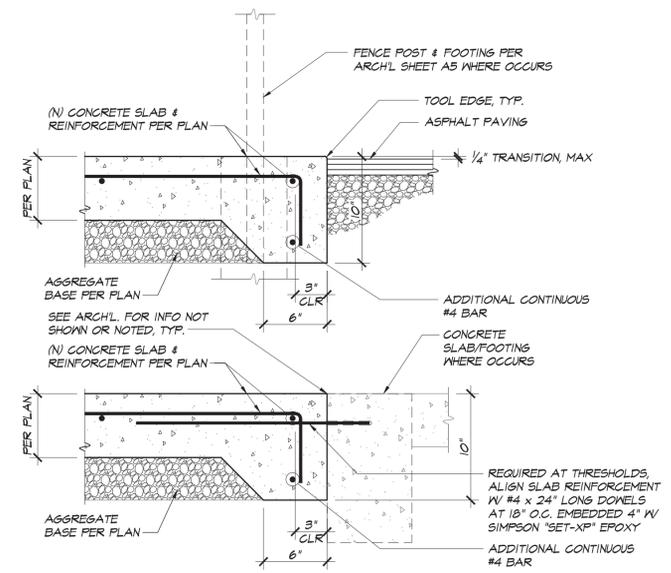
**C REINFORCEMENT BEND & SPLICE DETAILS**  
 S1.2 SECTION SCALE: 3/4" = 1'-0"



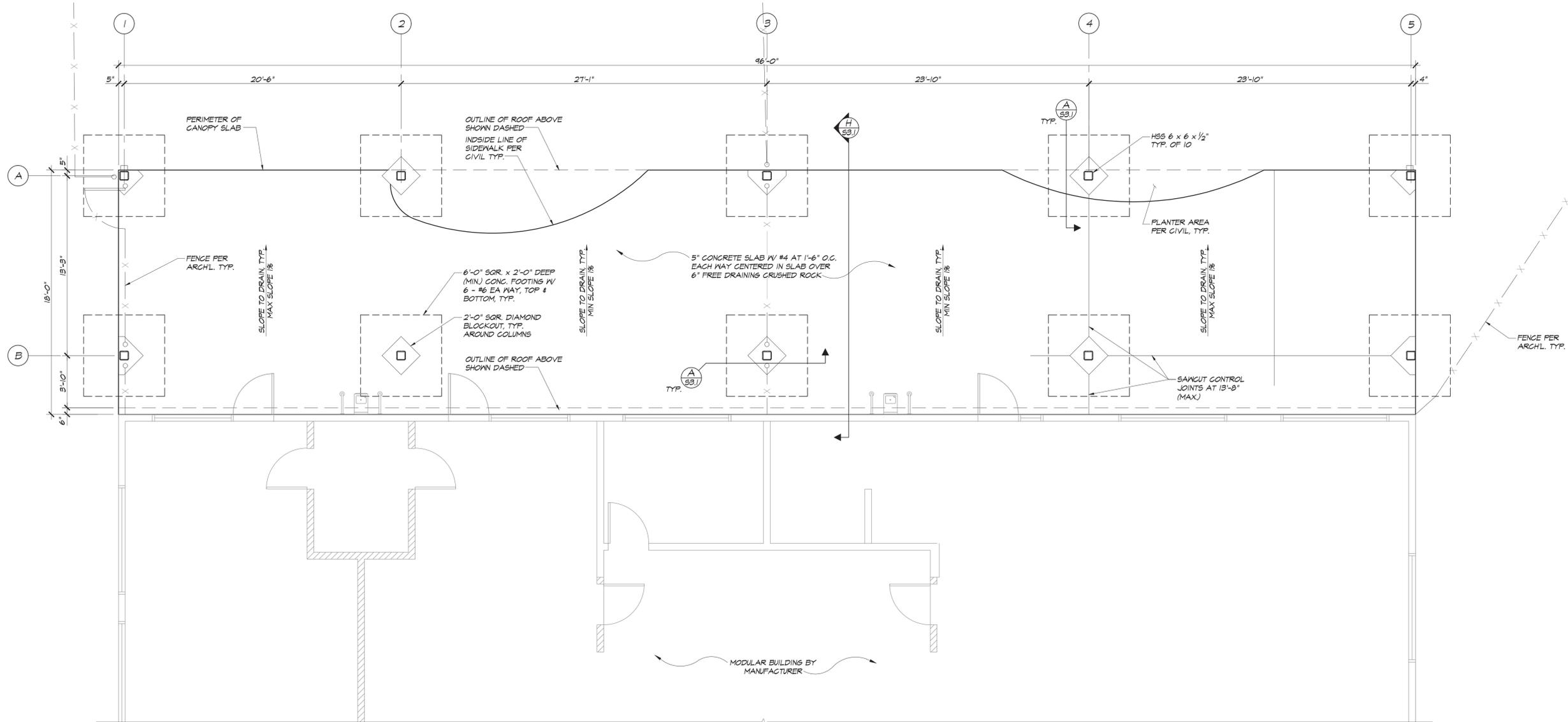
**D PIPE AND TRENCH LOCATION**  
 S1.2 NOT TO SCALE



**E COLUMN TIE BEND DETAILS**  
 S1.2 NOT TO SCALE



**F NEW CONCRETE SLAB EDGE**  
 S1.2 SECTION SCALE: 1 1/2" = 1'-0"



CANOPY FOUNDATION PLAN  
SCALE: 1/4"=1'-0" 

NOTE: SEE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION, (TYP.)

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-120119 INC:  
REVIEWED FOR  
SS  FLS  ACS   
DATE: 08/23/2022

**HMR ARCHITECTS**

2130 21st Street  
Sacramento, CA 95818  
T 916 736 2724



**DSA #02-120119**  
**FILE #48-C1**  
**EARLY LEARNING CENTER**

**SOLANO COMMUNITY COLLEGE**  
**4000 SUISUN VALLEY RD.**  
**FAIRFIELD, CA 94534**

**DESIGN DEVELOPMENT**

**REVISIONS**

NO.	DESCRIPTION	DATE

SHEET TITLE:

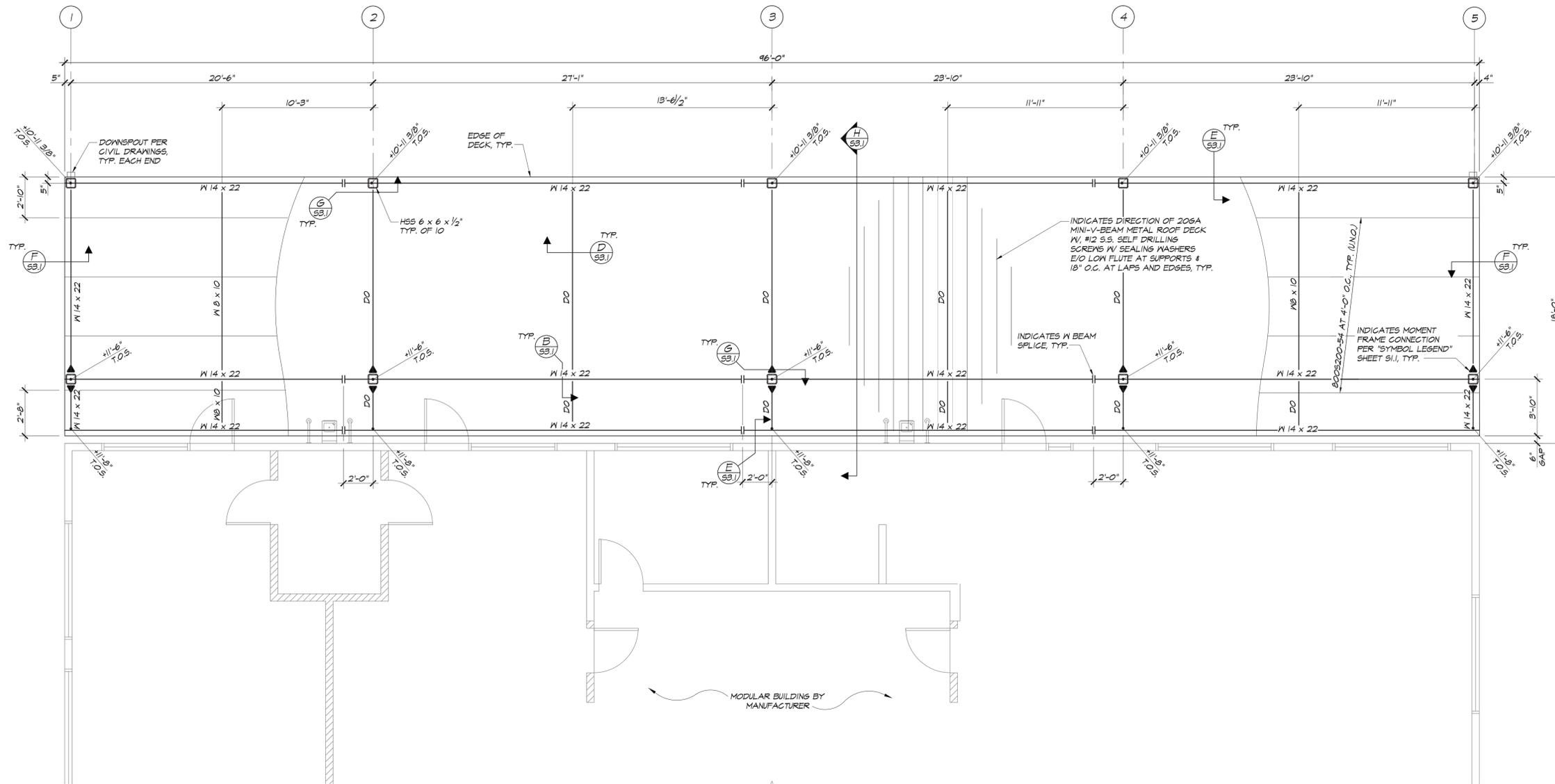
**CANOPY FOUNDATION PLAN**

 **ATM Engineering**  
2525 EAST BIDWELL STREET • SUITE A • FOLSOM • CALIFORNIA • 95630  
PH (916) 859-7300 • FAX (916) 934-5145

DATE: 08/01/22  
SCALE: AS SHOWN  
DRAWN BY: RGL  
CHECKED BY: JAG  
JOB NO: ATM# 21331

SHEET NUMBER:

**S2.1**



CANOPY ROOF FRAMING PLAN

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



NOTE: SEE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION, (TYP.)

IDENTIFICATION STAMP  
 DIV. OF THE STATE ARCHITECT  
 APP: 02-120119 INC:  
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2130 21st Street  
 Sacramento, CA 95818  
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DATE SIGNED: 08/01/22

**DSA #02-120119**

**FILE #48-C1**

**EARLY LEARNING CENTER**

**SOLANO COMMUNITY COLLEGE**  
**4000 SUISUN VALLEY RD.**  
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**DESIGN DEVELOPMENT**

REVISIONS

NO.	DESCRIPTION	DATE

SHEET TITLE:

**CANOPY ROOF FRAMING PLAN**

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 PH (916) 859-7300 • FAX (916) 934-5145

DATE: 08/01/22  
 SCALE: AS SHOWN  
 DRAWN BY: RGL  
 CHECKED BY: JAG  
 JOB NO: ATM# 21331

**S2.2**



## GENERAL NOTES

- FOR ALL UNDERGROUND CONDUITS, USE CAUTION WHEN TRENCHING NOT TO DAMAGE EXISTING CONDUIT, FULL BOXES, TREES, ETC. CUT 4 PATCH (E) CONCRETE, ASPHALT, LAWN, ETC. TO MATCH (E) CONDITIONS. IF ANY DAMAGE OCCURS TO EXISTING CONDUITS, IRRIGATION LINES, SEWER, ETC. THE CONTRACTOR SHALL REPAIR THE DAMAGE AT THEIR OWN COST TO LIKE NEW CONDITIONS.
- ALL NEW LOW VOLTAGE DEVICES ARE BEING CONNECTED TO (E) LOW VOLTAGE SYSTEMS. COORDINATE WITH SCHOOL DISTRICT FOR DEVICE MANUFACTURER AND MATCH (E) CAMPUS DEVICES. NEW FIRE ALARM DEVICES ARE SHOWN ON EQUIPMENT SCHEDULE. PROVIDE ALL REQUIRED CONNECTIONS, REPROGRAMMING, HARDWARE, EXPANSION CARDS, ETC. FOR A COMPLETE AND OPERATIONAL INSTALLATION.
- MOUNTING HEIGHTS SHOWN ARE FROM FINISHED FLOOR TO THE DEVICE. ALL MOUNTING HEIGHTS SHALL BE AS SHOWN ON THE SYMBOLS LIST UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
- THE CONTRACTOR SHALL VISIT THE PROJECT JOB SITE AND VERIFY ALL EXISTING CONDITIONS BEFORE BIDDING AND SHALL INCLUDE IN THE BID NECESSARY COSTS TO CONSTRUCT THIS PROJECT IN ACCORDANCE WITH THE ELECTRICAL DRAWINGS, SPECIFICATIONS AND ALL APPLICABLE CODES.
- ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE LISTED BY UNDERWRITERS LABORATORIES AND BEAR THEIR LABEL.
- ALL LOCATIONS SHOWN ON PLANS FOR ALL POWER, FIRE ALARM AND LOW VOLTAGE SIGNAL SYSTEM DEVICES ARE APPROXIMATE. COORDINATE EXACT LOCATION IN FIELD.
- CONTRACTOR SHALL REMOVE ALL LEFT OVER WIRE, SCRAP, CONDUIT ETC. AND LEAVE THE PROJECT JOB SITE CLEAN AND FREE OF TRASH AND DEBRIS RESULTING FROM HIS WORK.
- CONTRACTOR SHALL REPORT TO THE OWNER'S ENGINEER ANY OBSERVATIONS OF CONDITIONS WHICH ARE DISCOVERED IN THE BUILDING WHICH WOULD PREVENT THE CORRECT INSTALLATION OF THE ELECTRICAL SYSTEMS.
- CONDUIT ROUTING ON PLANS IS SHOWN DIAGRAMMATIC. CONTRACTOR SHALL LAYOUT CONDUIT RUNS TO SUIT FIELD CONDITIONS AND THE COORDINATION REQUIREMENTS OF UTILITIES AND OTHER DISCIPLINES.
- ALL CONDUITS AND RACEWAYS PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE SEALED WITH APPROVED SEALANT TO MAINTAIN THE FIRE RATING OF THE FLOOR AND WALL.
- INSTALL A SEPARATE GROUND WIRE FROM ALL TELECOMMUNICATION TERMINAL BACKBOARDS TO THE NEAREST ACCESSIBLE GROUND (GROUND BAR, GROUND BUS OR COLD WATER PIPE).
- ALL CONDUITS CROSSING EXPANSION JOINTS SHALL BE PROVIDED WITH SPECIFIED EXPANSION/DEFLECTION FITTINGS.
- ALL CONDUIT PENETRATIONS THROUGH ROOF AND EXTERIOR WALL SHALL BE SEALED WATERTIGHT.
- COORDINATE ALL CEILING MOUNTED DEVICES WITH (E) BUILDING LIGHTING FIXTURES TO AVOID CONFLICTS.
- CONTRACTOR SHALL MAINTAIN BARRIER SEPARATION BETWEEN SURFACE RACEWAY SYSTEM COMPARTMENTS AT ALL TEES AND OR CROSSSES.
- PROVIDE A CEC SIZED INSULATED COPPER GROUND CONDUCTOR IN ALL 120 VOLT THROUGH 600 VOLT FEEDER AND BRANCH CIRCUIT DISTRIBUTION CONDUITS AND CABLES UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL REFER TO POWER PLANS FOR THE LOCATION OF ALL PANELBOARDS.
- FURNISH AND INSTALL ALL PANELBOARDS WITH CIRCUIT BREAKERS AS SHOWN ON PANEL SCHEDULES.
- CONTRACTOR SHALL REFER TO ONE LINE DIAGRAM AND PANEL SCHEDULES FOR COMPONENTS OF THE ELECTRICAL SYSTEM.
- LIGHTING AND POWER PLANS TYPICALLY INDICATE HOMERUNS WITH CIRCUIT NEXT TO DEVICES. CONTRACTOR SHALL ROUTE BRANCH CIRCUITS BASED ON CIRCUITING SHOWN AND SWITCH CONFIGURATIONS.
- TELECOMMUNICATION CABLING SHALL BE PROVIDED BY THE CONTRACTOR. COORDINATE OUTLET REQUIREMENTS, RACEWAYS, TELECOMMUNICATION LAYOUTS, ETC. WITH SCHOOL DISTRICT PRIOR TO INSTALLATION.
- ALL LOW VOLTAGE CABLING ROUTING SHALL BE CONCEALED INSIDE THE BUILDING. PER THE SCHOOL DISTRICT, THE LOW VOLTAGE CABLING MAY BE ROUTED FREE AIR ABOVE T-BAR CEILINGS WITH SUPPORTS PER NEC.
- CONTRACTOR SHALL PAINT ALL EXPOSED CONDUITS TO MATCH ADJACENT MATERIAL COLOR.
- THESE DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNLESS APPROVED BY AHJ.
- THE ELECTRICAL DRAWINGS ARE NOT INTENDED TO SERVE AS STAND ALONE DOCUMENTS TO COMMUNICATE THE ENTIRE SCOPE OF ELECTRICAL WORK. THE ELECTRICAL CONTRACTOR SHALL OBTAIN A COMPLETE SET OF CONSTRUCTION DOCUMENTS.
- WORK INCLUDES ALL LABOR, MATERIALS AND EQUIPMENT TO REMOVE AND INSTALL ELECTRICAL ITEMS SPECIFIED AS SHOWN OR NOT SHOWN WHICH CAN BE REASONABLY ASSUMED TO BE REQUIRED AND NECESSARY TO PROVIDE COMPLETE AND WORKABLE SYSTEMS.
- ALL ELECTRICAL WORK SHALL CONFORM WITH THE MOST RECENTLY ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE AS WELL AS ALL STATE AND LOCAL CODES & REQUIREMENTS.
- THE COMPLETE SYSTEM SHALL BE GROUNDED PER NEC ART. 250.
- PROVIDE A FULL ROPE IN ALL EMPTY CONDUITS FOR FUTURE PULLING OF CONDUCTORS OR CABLES.

## 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 1611A.110 THROUGH 1611A.126 AND ASCE 7-16 CHAPTERS 13, 26 AND 30:

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- 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.
- 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:

- 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 SUPPORTS THE COMPONENT.
- 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 & ELEC. DIST. 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 13.6.3, 13.6.6, 13.6.7, 13.6.8 AND 2019 CBC SECTIONS 1611A.124, 1611A.125 AND 1611A.126.

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. OSHFD OFM 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) AND 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 OSHFD PRE-APPROVAL (OPM) \*

## ABBREVIATIONS LIST

•	AT	J-BOX	JUNCTION BOX
A	AMPERE	KVA	KILO VOLT AMP
A/C	AIR CONDITIONING	KW	KILOWATT
AFF.	ABOVE FINISHED FLOOR	LV	LOW VOLTAGE
AL	ALUMINUM	M.C.	MECHANICAL CONTRACTOR
AS	AMP SWITCH	MCC	MOTOR CONTROL CENTER
A.T.S.	AUTOMATIC TRANSFER SWITCH	MECH.	MECHANICAL
AUG.	AMERICAN WIRE GAUGE	MH	METAL HALIDE
BC	BARE COPPER	MISC.	MISCELLANEOUS
BD.	BOARD	MIB	MAIN SWITCHBOARD
B.F.C.	BELOW FINISHED CEILING	MV	MERCURY VAPOR
BKR.	BREAKER	NEW	NEW
BLDG.	BUILDING	(N)	NOT IN CONTRACT
C.	CONDUIT	N.I.E.S	NOT IN ELECTRICAL SECTION OF THESE PLANS & SPECS.
C/B	CIRCUIT BREAKER	NL	NIGHT LIGHT
CKT.	CIRCUIT	NO. #	NUMBER
CLG.	CEILING	NTS	NOT TO SCALE
C.O.	CONDUIT ONLY, WITH FULL LINE	ON C.	ON CENTER
	COPPER	P.	FOLE
CU	DISCONNECT	P.C.	PLUMBING CONTRACTOR
Disc.	EXISTING	PH	PHASE
(E)	EACH	PLUMB.	PLUMBING
EA.	ELECTRICAL CONTRACTOR	PLY.	PLYWOOD
E.C.	ELECTRIC/ALL	PNL.	PANEL
ELECT.	EMERGENCY	PR.	PRIMARY
EMERG.	ELECTRICAL METALLIC TUBING	PVC	POLYVINYL CHLORIDE
EMT	EQUIPMENT	REQ'D.	REQUIRED
EQUIP.	ELECTRICAL WATER COOLER	R.F.	ROOM
EWC	ELECTRIC WATER HEATER	RSC	RIGID STEEL CONDUIT
EWH	EXISTING	SEC.	SECONDARY
Exist.	FUTURE	SQ.	SQUARE
(F)	FIRE ALARM CONTROL PANEL	SW.	SWITCH
F.A.C.P.	FLUORESCENT	TEL.	TELEPHONE
FLUOR.	FOOT	TTB	TELEPHONE TERMINAL BOARD
FT	GENERAL CONTRACTOR	TTT	TELEPHONE TERMINAL CABINET
G.C.	GYPSUM	TYP.	TYPICAL
GND.	HIGH INTENSITY DISCHARGE	UG	UNDERGROUND
GYP.	HIGH PRESSURE SODIUM	UN	UNLESS OTHERWISE NOTED
H.I.D.	HORSEPOWER	UPS	UNINTERRUPTED POWER SUPPLY
H.P.S.	HEIGHT	V	VOLTS
HP	HIGH VOLTAGE	W/P	WEATHERPROOF
HT	INTERCOM	W	WATT
HV	INTERMEDIATE METALLIC CONDUIT	W/O	WITHOUT
I/C	INCANDESCENT	XMR.	TRANSFORMER
IMC	ISOLATED GROUND	+	AND
INCAN.	INTERRUPTING CURRENT		PHASE
IG			
Isc			

## ELECTRICAL SYMBOLS

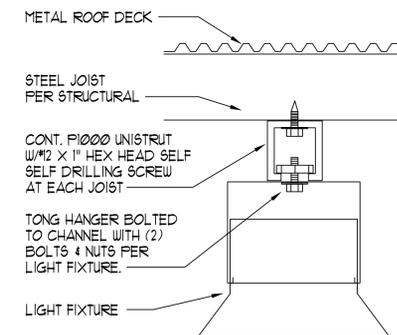
- NON-FUSED DISCONNECT SWITCH, SIZE AS REQUIRED
  - ⊞ FUSED DISCONNECT SWITCH WITH TIME DELAY FUSES SIZED PER UNIT NAMEPLATE OR AS NOTED. DISCONNECT SHALL ACCEPT MAXIMUM RECOMMENDED FUSE SIZE.
  - ⊞ DUPLEX RECEPTACLE, NEMA 5-20R, #10" UON
- RECEPTACLE SUBSCRIPTS:
- GFI -or- GFCI = GROUND FAULT-CIRCUIT INTERRUPTER
  - R = ROOF MOUNTED, WEATHERPROOF (IN-USE), GFCI
  - EUC = ELECTRIC WATER COOLER, GFCI
  - UP = WEATHERPROOF (WHILE IN-USE COVER)
- ⊞ JUNCTION BOX, SIZE AND TYPE AS REQUIRED
  - ⊞ FULLBOX, SIZE AND TYPE AS REQUIRED
  - 2 COMBINATION TEL/DATA OUTLET, #10" UON, CAT6 CABLE IN RACEWAY. THE NUMBER REPRESENTS THE NUMBER OF RJ45 JACKS AT EACH OUTLET.
  - SWITCHBOARD, SEE ONE LINE DIAGRAM
  - BRANCH CIRCUIT PANEL, SEE PANEL SCHEDULES
  - SIGNAL OR CONTROL PANEL, TYPE AS INDICATED
  - TELEPHONE TERMINAL BOARD, SIZE AS INDICATED
  - IDENTIFICATION TAG FOR EQUIPMENT PROVIDED BY M.C. CONNECT EQUIPMENT AS INDICATED OR AS REQUIRED.
  - NUMBERED NOTE TAG - SEE NUMBERED NOTES, SAME SHEET
  - INDICATES DETAIL "A" AT SHEET "E1"

## WIRE AND CONDUIT LEGEND

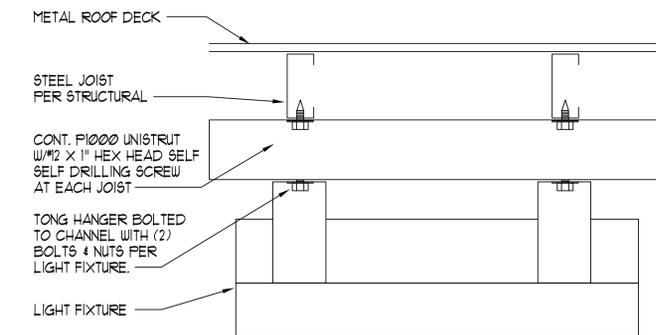
- CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING.
- CONDUIT RUN UNDERFLOOR OR UNDERGROUND.
- HOME RUN, NUMBER OF ARROWS INDICATE NUMBER OF CIRCUITS IN HOME RUN.
- FLEXIBLE CONDUIT
- FACTORY WHIP
- NO CROSSBARS ON CONDUIT INDICATE 1/2" CONDUIT WITH TWO #12 AWG CONDUCTORS & ONE #12 AWG GND. CROSSBARS INDICATE NUMBER OF #12 AWG CONDUCTORS IN CONDUIT IN ADDITION TO #12 AWG GND. CONDUCTOR SIZE OTHER THAN #12 NOTED ON DRAWING. CONDUIT SIZE OTHER THAN 1/2" NOTED ON DRAWING.
- CONDUIT UP.
- EXAMPLE: THREE CIRCUITS IN HOME RUN - FOUR #10 AWG CONDUCTORS AND ONE #10 AWG GROUNDING CONDUCTOR IN 3/4" CONDUIT, RUN CONCEALED IN WALL OR ABOVE CEILING.

## LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	FIXT. VOLT.	LAMPS		INPUT V.A.	WEIGHT	MOUNTING	REMARKS
			NO.	TYPE				
A	LITHONIA CLX-L48-5000LM-SEF-WDL-MVOLT-GZ10-40K-80CRI-MB-THCLXMB	MVOLT		LED	34.8	7.5 LBS	TONG HANGER SURFACE TO UNISTRUT. SEE E/E12	4' LED LINEAR STRIP WITH WIDE DIFFUSE LENS.



END VIEW



SIDE VIEW

NOTE: UNISTRUT TO SPAN A TOTAL OF (3) STEEL JOISTS AS SHOWN ON SHEET E3.0.

## SURFACE MOUNTED LIGHT FIXTURE DETAIL

SCALE: NONE

A  
E1.0



HMR ARCHITECTS

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Sacramento, CA 95818  
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Date Signed: August 12, 2022



DSA #02-120119  
FILE #48-C1

EARLY LEARNING  
CENTER

SOLANO COMMUNITY  
COLLEGE  
4000 SUISUN VALLEY RD.  
FAIRFIELD, CA 94534

SUBMITTAL SET

REVISIONS

NO.	DESCRIPTION	DATE
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ELECTRICAL DETAIL,  
SCHEDULES, SYMBOLS &  
NOTES

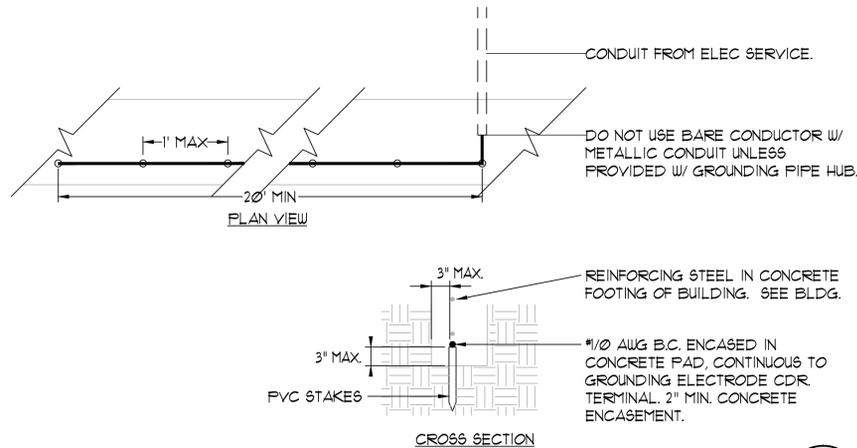
MAY 17, 2022

DRAWN BY:  
JD  
CHECKED BY:  
RH  
JOB NO.  
21052

E1.0

### ONE LINE DIAGRAM NUMBERED NOTES

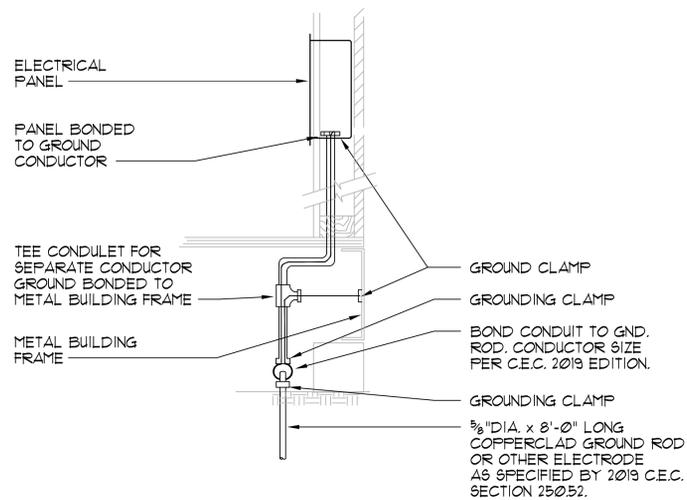
- PROVIDE A 225 AMP, 208 VOLT, 3 PHASE, 22K AIC CIRCUIT BREAKER AND REPLACE (E) 200 AMP, 208 VOLT, 3 PHASE CIRCUIT BREAKER. MATCH (E) MANUFACTURER. TURN OVER REMOVED CIRCUIT BREAKER TO COLLEGE ELECTRICAL DEPARTMENT. PROVIDE DOUBLE LUGS FOR CIRCUIT BREAKER FOR PARALLEL RUNS TO FULL BOX. PROVIDE ALL REQUIRED HARDWARE FOR A COMPLETE AND OPERATIONAL INSTALLATION.
- ELECTRICAL PANEL LOCATED IN ELECTRICAL ROOM OF BUILDING. ELECTRICAL PANEL PROVIDED AND INSTALLED BY BUILDING MANUFACTURER. CONTRACTOR TO CONNECT FEEDER TO PANEL EP-B FOR A COMPLETE AND OPERATIONAL INSTALLATION.
- ELECTRICAL PANEL LOCATED IN ELECTRICAL ROOM OF BUILDING. ELECTRICAL PANEL PROVIDED AND INSTALLED BY BUILDING MANUFACTURER.



### UFER GROUND DETAIL

NO SCALE

B  
E1.1



#### NOTES:

- SIZE OF CONDUCTORS SHALL COMPLY WITH 2019 C.E.C.
- BOND TO SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL, METAL BUILDING FRAME & RAMP (2019 C.E.C.). GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10'-0" INTO THE SOIL IF AVAILABLE (C.E.C. 2019 EDITION).
- ALL MODULES OF METAL FRAME BUILDING SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING).
- CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS WITH CONDUCTORS AS SHOWN SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS (C.E.C. 2019 EDITION).
- PROVIDE GAS AND WATER BOND.
- SITE INSPECTOR OF RECORD SHALL WITNESS AND VERIFY ALL TESTING.

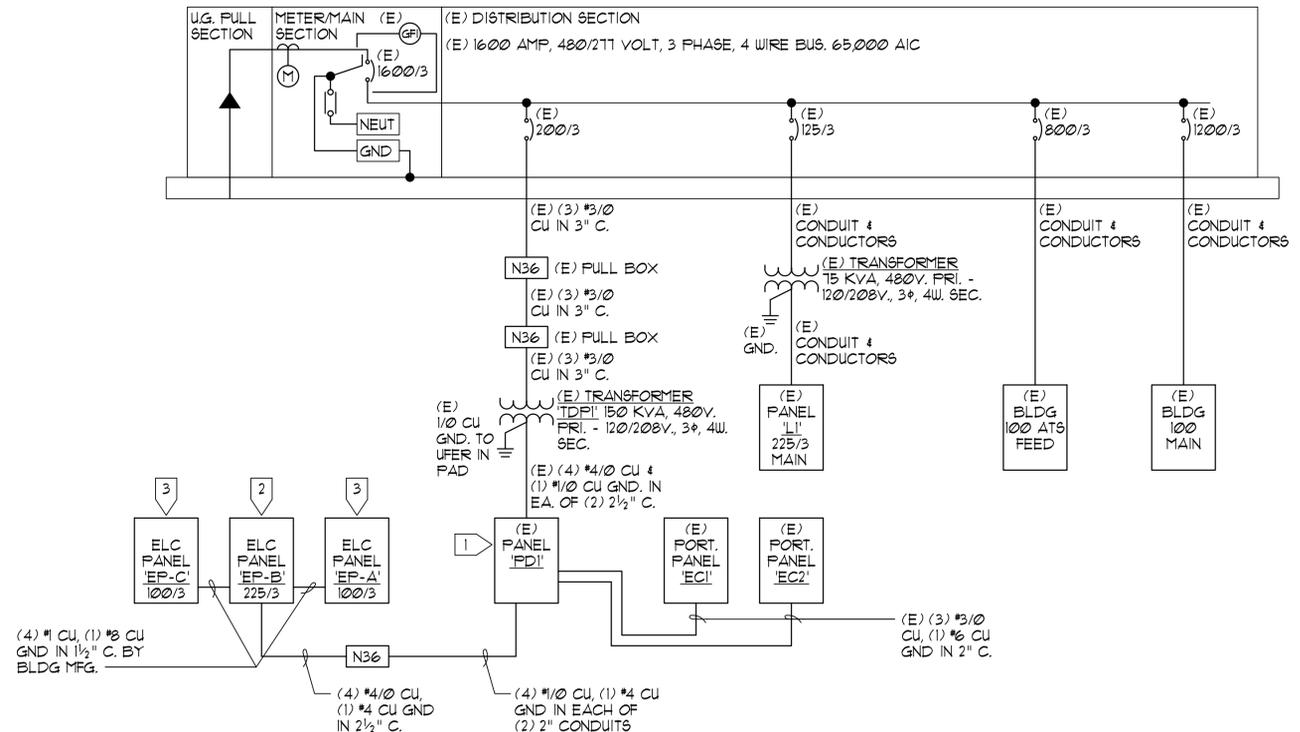
### BUILDING GROUNDING DETAIL

SCALE: NONE

D  
E1.1

### (E) SWITCHBOARD - "S4"

(E) NEMA 3R ENCLOSURE



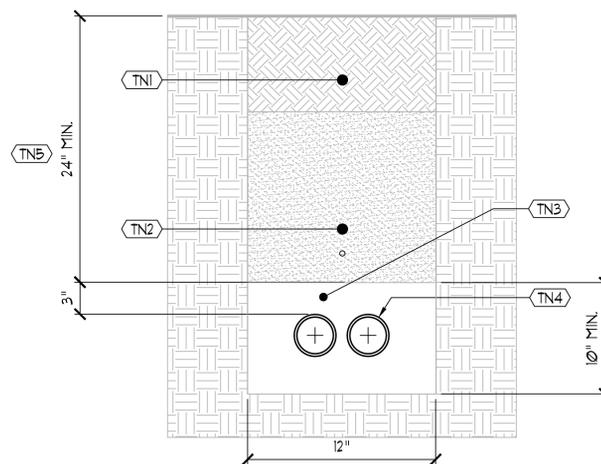
### ONE LINE DIAGRAM

NO SCALE

A  
E1.1

### TRENCH NOTES

- (TN1) CONCRETE, ASPHALT, GRASS, ETC TRENCH COVER TO MATCH (E) CONDITIONS.
- (TN2) NATIVE BACKFILL WITH 95% COMPACTION. PROVIDE A WARNING TAPE WITH TRACE WIRE 12" ABOVE CONDUIT PER 2019 C.E.C. 300.5.
- (TN3) 3" SAND ENCASEMENT ALL SIDES.
- (TN4) CONDUIT AS SHOWN ON PLANS. SEE SHEETS E1.1 & E2.0.
- (TN5) 24" MINIMUM COVER ABOVE CONDUIT AND SAND ENCASEMENT.



NOTE: TRENCH BOTTOM MUST BE SQUARE.

### CONDUIT TRENCH DETAIL

SCALE: NONE

C  
E1.1

120/208V, 3 Ph, 4W									
EXISTING PANEL 'PD1'				22,000 ISC				SURFACE MOUNTED	
AT ECHS PORTS				600 AMP BUS				NEMA 3R	
DESCRIPTION	KVA	BKR	CKT	Ph. A	Ph. B	Ph. C	CKT	BKR	KVA
1 EC CLASSROOM 1	12.0	200/2	1	36.0			2	24.0	24.0
1 EC CLASSROOM 2	12.0	200/2	5	36.0			4	225/3	24.0
SPACE	12.0		3				6		24.0
SPACE			7	12.0			8		
SPACE			9				10		
SPACE			11				12		
SPACE			13				14		
SPACE			15				16		
SPACE			17				18		
SPACE			19				20		
SPACE			21				22		
SPACE			23				24		
SPACE			25				26		
SPACE			27				28		
SPACE			29				30		
SPACE			31				32		
SPACE			33				34		
SPACE			35				36		
SPACE			37				38		
SPACE			39				40		
SPACE			41				42		
SUBTOTAL:				48.0	36.0	36.0			
CONNECTED LOAD	120.0	KVA					500 AMP MAIN BREAKER		
25% LIGHTING LOAD	KVA					FED FROM 150 KVA XFMR			
25% LARGEST MOTOR	KVA								
TOTAL LOAD 120.0 KVA / 0.380 FACTOR = 333 AMPS									
1. EXISTING LOAD ON EXISTING CIRCUIT BREAKER TO REMAIN.									
2. NEW LOAD ON NEW CIRCUIT BREAKER. PROVIDE DOUBLE LUG & REQUIRED HARDWARE.									

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-120119 INC:  
REVIEWED FOR  
SS  FLS  ACS   
DATE: 08/23/2022

## HMR ARCHITECTS

2130 21st Street  
Sacramento, CA 95818  
T 916 736 2724

LICENSED ARCHITECT  
CAMERON PILEY  
No. 24706  
RENEWED 12/1/23  
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER  
G. HARRISON  
No. E-10629  
EXP. 6-30-2023  
STATE OF CALIFORNIA

SACRAMENTO ENGINEERING CONSULTANTS  
10555 Old Placerville Road  
Sacramento, CA 95827-2503  
Phone: (916) 368-4468  
www.saceng.com  
REGISTERED IN 50 STATES  
Job No. 22069

DSA #02-120119

FILE #48-C1

EARLY LEARNING CENTER

SOLANO COMMUNITY COLLEGE

4000 SUISUN VALLEY RD.  
FAIRFIELD, CA 94534

SUBMITTAL SET

REVISIONS

NO.	DESCRIPTION	DATE

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ELECTRICAL ONE LINE DIAGRAM, PANEL SCHEDULE & DETAILS

MAY 17, 2022

DRAWN BY: JD  
CHECKED BY: RH  
JOB NO. 21052

E1.1

**EST3 FACP BATTERY CALCULATIONS**

Description	Qty	Standby Current (mA)	Total Standby (mA)	Alarm Current (mA)	Total Alarm (mA)
3-PPS/M Power Supply	1	N/A	N/A	N/A	N/A
3-CPU3 Central Processor	1	155	155	165	165
3-FIBMB2 Fiber Board	1	105	105	105	105
SMXL02 Single Mode Transceiver	4	79	316	79	316
3-LCD LCD Module	1	40	40	42	42
3-SSDC1 SIGA Controller *	1	144	144	204	204
3-240x40W Zone Amplifier	1	62	62	2480	2480
3-12/SIGY Annunciation Module	1	2	2	36	36
NAC-IN	1	---	---	1,458	1,458
<b>TOTALS</b>	---	---	824	---	3349

\* NOTE: The SIGA Device Controller is calculated with the maximum Signature addressable device load  
 Battery Requirement Calculation for 24 Hours Standby and 15 Minutes Alarm:  
 Ampere Hours = [(Standby Current x Time)+(Alarm Current x Time)] x Derating Factor  
 Ampere Hours = [(0.824A x 24 hrs)+(3.349458A x 0.25 hrs)] x 1.2  
 Ampere Hours = 23.7

**BATTERIES SUPPLIED: (2) 12 Volts, 33 Ampere Hours (24 Volts, 33 Ampere Hours)**

**EARLY LEARNING CENTER NAC CKT**

Device	Quantity	Standby Current	Total Standby Current	Alarm Current	Total Alarm Current
Notification Appliances LOOP 1					
CEILING STROBE @ 15 CD	5	0.000	0.000	0.045	0.225
SPEAKER/STROBE @ 15 CD	1	0.000	0.000	0.109	0.109
SPEAKER/STROBE @ 75 CD	4	0.000	0.000	0.281	1.124
EXTERIOR SPEAKER	2	0.000	0.000	0.900	0.900
<b>TOTALS</b>	---	---	0.000	---	1.458

**VOLTAGE DROP CALCULATION**

WIRE GAUGE (# 12) R=0.00171 ohm/FT							
NAC CIRCUIT	A	B	C	D			
SOURCE VOLTAGE	TOTAL AMP	WIRE LENGTH (FEET)	VOLT DROP (2xRxL/C)	% DROP (D/A)	VOLTAGE AT LAST DEVICE (A-D)	AUDIO WATTS	
N1	20.4	1.458	390	1.94	9.53	18.46	9.00

**FIRE ALARM SYSTEM OPERATIONAL MATRIX**

CAUSE	EFFECT	ALARM AT 'FACP'	ACTIVATE AUDIBLES	ACTIVATE VISUALS	HVAC UNIT SHUT DOWN	TROUBLE AT FACP	DEACTIVATE AUDIBLES/VISUALS	SYSTEM NORMAL	SUPERVISING STATION
MANUAL FULL STATION		X	X	X					X
SMOKE & HEAT DETECTORS		X	X	X					X
DUCT SMOKE DETECTORS		X	X	X	X				X
TAMPER & FLOW SWITCHES		X	X	X					X
SYSTEM RESET							X	X	X
SYSTEM SILENCE							X	X	X
AC POWER FAILURE AT FACP						X			X
F.A. TROUBLE (OPEN, SHORTS, OR GROUNDS) ON INITIATION, OR SIGNALING						X			X

**FIRE ALARM NOTES**

1. THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALLED, TESTED AND MAINTAINED IN ACCORDANCE WITH THE STATE FIRE MARSHAL'S REGULATIONS, 2016 NFPA 72 & 2019 CBC SEC. 907.
2. THE FIRE ALARM SYSTEM SHALL CONFORM TO CAL. ELEC. CODE AND ARTICLE 91. INSTALLATION OF THE SYSTEM SHALL NOT BEGIN UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING CFM LISTING NUMBERS FOR EACH COMPONENT, HAVE BEEN APPROVED BY DSA. UPON COMPLETION OF THE INSTALLATION, A TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE DSA INSPECTOR OF RECORD.
3. THE ALARM SYSTEM SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED. FLASHING VISUAL WARNINGS SHALL HAVE A FLASH RATE NOT EXCEEDING TWO FLASHES PER SECOND (2 HZ) NOR BE LESS THAN ONE FLASH EVERY SECOND (1 HZ). STROBE SIGNALING DEVICES FOR THE HEARING IMPAIRED SHALL BE STATE FIRE MARSHAL APPROVED AND LISTED (NFPA 72, SEC. 18.5.2.1).
4. ALARM-INDICATING DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL OCCUPANTS SHALL CAUSE A LEVEL OF AUDIBILITY OF NOT LESS THAN 15 dBA ABOVE THE AVERAGE AMBIENT NOISE LEVELS OR 5 dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF 60 SECONDS WHICH-EVER IS GREATER, MEASURED 5' ABOVE THE FLOOR. AMBIENT NOISE LEVELS MEANS THE LEVEL WHICH CAN NORMALLY BE EXPECTED WHEN THE FACILITY, BUILDING, ROOM, OR AREA IS FUNCTIONING UNDER NORMAL OPERATING OR WORKING CONDITIONS (NFPA 72, SEC. 18.4.3.1).
5. ALL FIRE ALARM CABLE SHALL BE INSTALLED IN 1/2" CONDUIT MINIMUM. ALL ROUTINGS SHALL BE CONCEALED. PROVIDE A FULL ROPE IN ALL UNUSED CONDUIT RUNS.
6. ALL STROBES SHALL BE SYNCHRONIZED TO FLASH AT THE SAME TIME WITH ONE ANOTHER PER 2016 NFPA 72.

**FIRE ALARM EQUIPMENT SCHEDULE**

SYMBOL	CATALOG #	DESCRIPTION	QUANTITY
FACP	EDWARDS EST3 FACP WITH (1) 3-CPU3 (1) 3-LCD (1) 3-PPS/M (1) 3-SSDC1 (1) 3-2400B (1) 3-FIBMB2 (4) MMXVR	VOICE EVAC CONTROL PANEL CONNECTED TO CAMPUS WIDE NETWORK VIA FIBER OPTIC CABLE. SEPARATE BATTERY CABINET WITH (2) 33.0 AH BATTERIES	1165-1651:0186
FS	EDWARDS SIGA-2T8	ADDRESSABLE MANUAL FULL STATION	1165-1651:0129
FS	EDWARDS SIGA-CT2	ADDRESSABLE WATER FLOW & TAMPER SWITCH MODULE	1300-1651:0121
SD	EDWARDS SIGA-OSB SIGA-SB	ADDRESSABLE SMOKE DETECTOR & BASE	1272-1651:0511 1300-1651:0120
SD	SYSTEM SENSOR 5602 WITH A SIGA-CTHT	194" ATTIC HEAT DET. AND AN ADDRESSABLE MONITOR MODULE	1270-1653:0167 1300-1651:0121
SD	EDWARDS SIGA-SD	ADDRESSABLE SMOKE DETECTOR	3242-1651:0223
SD	EDWARDS SIGA-CCIS	ADDRESSABLE SYNC. OUTPUT MODULE FOR NAC CIRCUIT.	1300-1651:0121
ST	EDWARDS GCHFUF-STVMC	CEILING MOUNTED SPEAKER/STROBE (15 CANDELA)	1320-1651:0211
ST	EDWARDS GCVUF	CEILING MOUNTED STROBE (15 CANDELA)	1125-1651:0510
SW	EDWARDS WG4RF-S, WG4RTS & 1434TU WF BOX	EXTERIOR WALL MOUNTED SPEAKER W/SKIRT AND WF BOX	1320-1651:0289

- NOTES:**
1. THE (N) FIRE ALARM SYSTEM IS AN APPROVED FULLY AUTOMATIC VOICE EVAC SYSTEM WITH MANUAL DEVICES.
  2. FIRE ALARM AUDIBLES SHALL HAVE THE SAME BASIC SOUND & PATTERN & SOUND THE CALIFORNIA UNIFORM FIRE ALARM SIGNAL IN TEMPORAL MODE.
  3. THE FIRE ALARM CONTROL PANEL SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AS AMENDED BY ARTICLE 91 OF THE CALIFORNIA FIRE CODE. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UJFX OR UJUS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011.
  4. ALL FIRE ALARM STROBES SHOWN ON PLANS SHALL BE ASSUMED TO BE 15 CANDELA (cd) STROBES, UNLESS OTHERWISE NOTED.

**FIRE ALARM CABLE SCHEDULE**

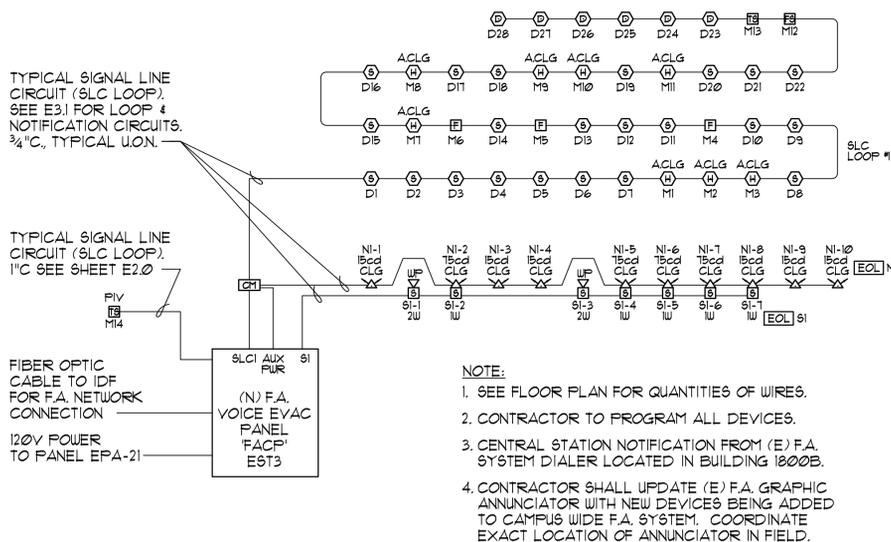
TYPE	DESCRIPTION
A	(2) #16 TWISTED/UNSHIELDED (F.A. SIGNALING LOOP CIRCUIT) WEST PENN #390.
B	(2) #12 THIN CU (F.A. NOTIFICATION APPLIANCE CIRCUIT)
C	(2) #14 TWISTED/SHIELDED (F.A. SPEAKER CIRCUIT) WEST PENN #395.

**FIRE ALARM SYSTEM NOTES**

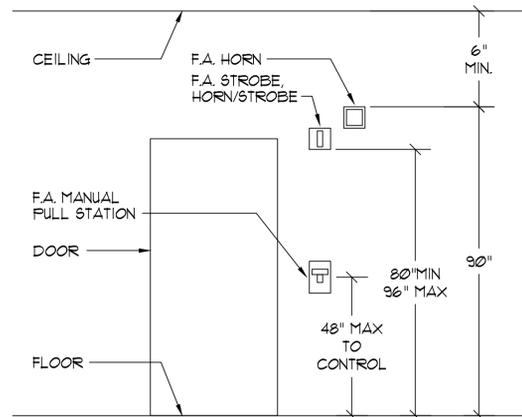
1. F.A. SYSTEM SHALL CONFORM TO 2019 CALIFORNIA BUILDING CODE SECTION 907.2.3, 2019 CALIFORNIA ELECTRICAL CODE, ARTICLE 160 & NFPA 72, 2016 EDITION. COMPONENT SHALL BE AS SPECIFIED ON THE DRAWINGS. THE MANUFACTURERS FACTORY TRAINED AND AUTHORIZED REPRESENTATIVE SHALL PERFORM OR SUPERVISE THE INSTALLATION. UPON COMPLETION OF INSTALLATION, THIS PERSON SHALL EXECUTE A SATISFACTORY TEST OF THE ENTIRE SYSTEM IN THE PRESENCE OF THE DSA INSPECTOR. TESTING SHALL ALSO INCLUDE A BATTERY TEST. OPERATE SYSTEM FOR 24 HOURS WITHOUT INPUT POWER & PERFORM A (15) FIFTEEN MINUTE ALARM TEST OF THE ENTIRE SYSTEM AT THE END OF 24 HOURS. CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING THE SYSTEM COMPLETE AND OPERATIONAL.
2. COMPLETE FIRE ALARM SUBMITTAL INCLUDED.
3. THE FIRE ALARM SYSTEM SHALL CONFORM TO NOTE #1 AND ALSO CONFORM TO SB 515. THE F. A. DEVICES SHALL BE AUTOMATIC AND MONITORED BY AN APPROVED SUPERVISING STATION THAT IS LISTED AS EITHER UJFX OR UJUS BY UNDERWRITERS LAB. OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011.

**FIRE ALARM SCOPE OF WORK**

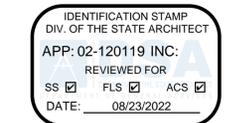
THE COLLEGE IS GETTING A NEW 96' X 40' EARLY LEARNING CENTER PORTABLE WITH A NEW FIRE ALARM VOICE EVACUATION SYSTEM. CONTRACTOR SHALL PROVIDE AND INSTALL A NEW FIRE ALARM SYSTEM FOR A COMPLETE & OPERATIONAL INSTALLATION.



**FIRE ALARM RISER DIAGRAM**  
SCALE: NONE



**F.A. DEVICE ELEVATION DETAIL**  
SCALE: NONE



**HMR ARCHITECTS**

2130 21st Street  
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**DSA #02-120119**  
**FILE #48-C1**

**EARLY LEARNING CENTER**

**SOLANO COMMUNITY COLLEGE**  
**4000 SUISUN VALLEY RD.**  
**FAIRFIELD, CA 94534**

**SUBMITTAL SET**

**REVISIONS**

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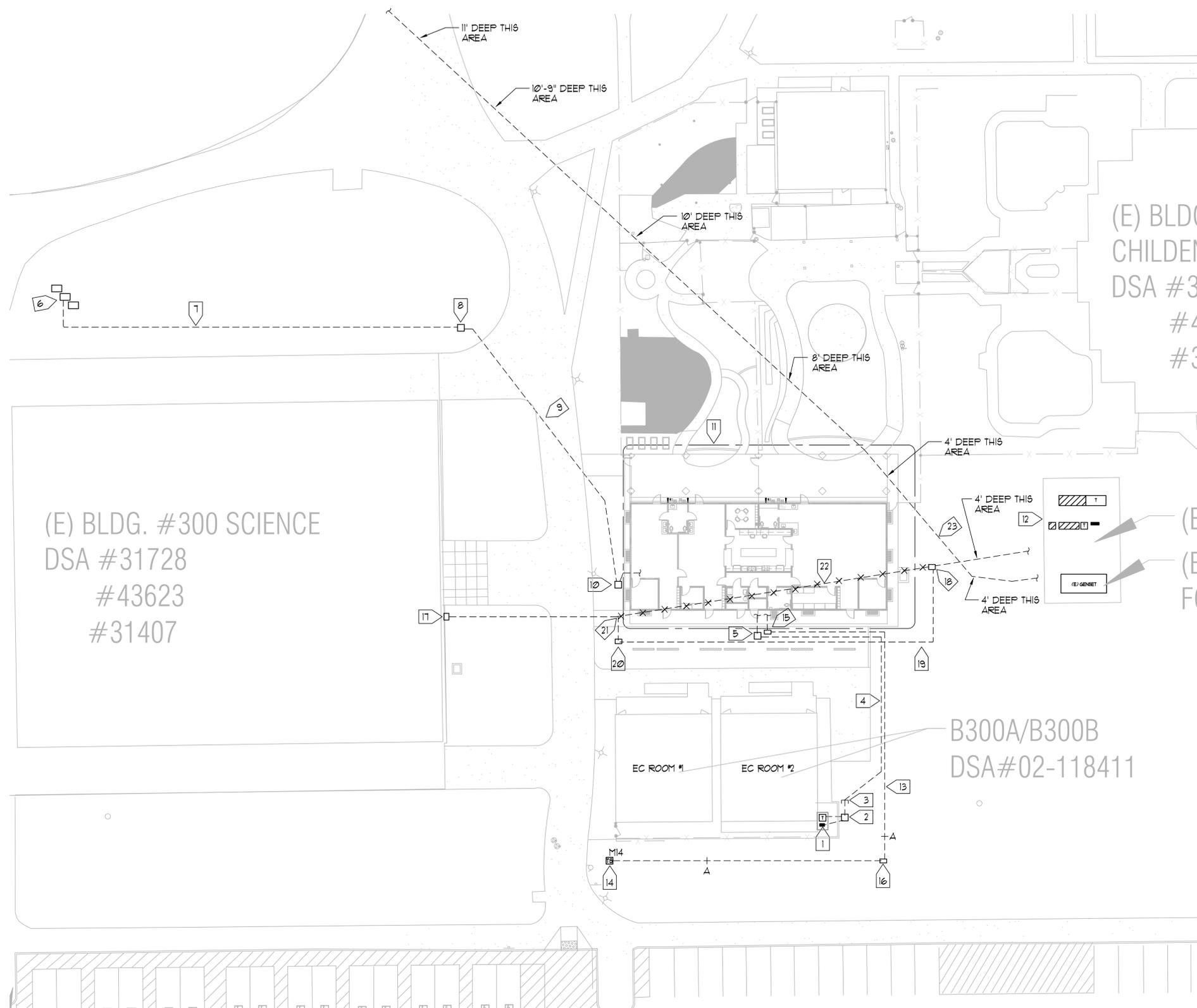
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**FIRE ALARM CALCULATIONS, SCHEDULES, RISER DIAGRAM & NOTES**

MADE 17, 2022

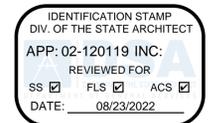
DRAWN BY: JD  
CHECKED BY: RH  
JOB NO: 21052

**E1.2**



**NUMBERED NOTES**

- 1 (E) TRANSFORMER AND DISTRIBUTION PANEL 'FD' TO REMAIN. (E) 200 AMP, 3 PHASE SPARE CIRCUIT BREAKER TO BE REMOVED AND REPLACED WITH A NEW 208 VOLT, 225 AMP, 3 PHASE CIRCUIT BREAKER. CONNECT TO NEW CIRCUIT BREAKER AND ROUTE NEW CONDUCTORS IN (E) AND (N) CONDUIT OVER TO NEW EARLY LEARNING CENTER BUILDING AS SHOWN. SEE ONE LINE DIAGRAM AND PANEL SCHEDULE ON SHEET E11.
- 2 (E) CHRISTY POWER FULL BOX TO REMAIN WITH (2) 2" CONDUITS STUBBED OUT 5' FROM BOX.
- 3 (E) (2) 2" CONDUITS STUBBED OUT FROM FULL BOX. CONNECT TO 2" CONDUIT AND EXTEND NEW CONDUIT AND CONDUCTORS UP TO NEW EARLY LEARNING CENTER BUILDING.
- 4 NEW ELECTRICAL FEEDER ROUTED BELOW GRADE AND AROUND CONCRETE AREA AROUND PORTABLES OVER TO NEW FULL BOX. SEE ONE LINE DIAGRAM A/E11 FOR SIZE & QUANTITY OF CONDUIT AND CONDUCTORS.
- 5 PROVIDE AND INSTALL A CHRISTY N36 FULL BOX (ELECTRICAL), REINFORCED CONCRETE LID AND EXTENSIONS. BACKFILL AROUND BOX TO MATCH CONDITIONS. PROVIDE BELL ENDS ON ALL CONDUITS IN BOX FOR CABLE PROTECTION. SPLICE (2) SETS OF FEEDERS BACK TO (1) SET OF FEEDERS AND ROUTE NEW CONDUIT AND CONDUCTORS FROM BOX TO NEW BUILDING AS SHOWN. SEE ONE LINE DIAGRAM FOR SIZE AND QUANTITY OF CONDUITS AND CONDUCTORS. SEE SHEET E3.0 FOR CONTINUATION.
- 6 (E) SIGNAL FULL BOX WITH 288 SINGLE MODE FIBER OPTIC (SMFO) TRUNK CABLE. PROVIDE A 12 STRAND SMFO CABLE AND CONNECT TO SMFO TRUNK CABLE. COORDINATE CONNECTION OF 12 STRAND SMFO CABLE TO TRUNK CABLE WITH COLLEGE IT DEPARTMENT.
- 7 FROM FULL BOX WITH SMFO TRUNK CABLE, ROUTE 12 STRAND SMFO CABLE AND 1" INNER DUCT IN SPARE 2" CONDUIT OVER TO FULL BOX.
- 8 (E) CHRISTY N36 FULL BOX (COMMUNICATIONS) TO REMAIN.
- 9 FROM FULL BOX, ROUTE NEW 12 STRAND SMFO CABLE AND 1" INNER DUCT IN SPARE 2" CONDUIT OVER TO (E) FULL BOX AS SHOWN.
- 10 (E) CHRISTY N36 FULL BOX (COMMUNICATIONS) TO REMAIN. SEE SHEET E3.0 FOR ROUTING NEW 12 STRAND SMFO CABLE FROM THIS FULL BOX TO THE NEW BUILDING.
- 11 NEW EARLY LEARNING CENTER BUILDING. SEE FLOOR PLAN SHEETS E3.0 & E3.1 FOR WORK REQUIRED IN THIS AREA.
- 12 (E) ELECTRICAL EQUIPMENT AND (E) GENERATOR TO REMAIN.
- 13 NEW 1" FIRE ALARM CONDUIT AND CABLE, ROUTED BELOW GRADE FROM NEW CHRISTY N9 FULL BOX OUT TO NEW TAMPER SWITCH AT THE POST INDICATOR VALVE 'PIV' FOR FIRE SPRINKLER.
- 14 PROVIDE & INSTALL A TAMPER SWITCH AT THE PIV. COORDINATE EXACT LOCATION AND CONNECTION REQUIREMENTS WITH CIVIL PLANS IN FIELD FOR A COMPLETE AND OPERATIONAL INSTALLATION.
- 15 PROVIDE AND INSTALL A CHRISTY N9 FULL BOX (FIRE ALARM), REINFORCED CONCRETE LID AND EXTENSIONS. BACKFILL AROUND BOX TO MATCH CONDITIONS. PROVIDE BELL ENDS ON ALL CONDUITS IN BOX FOR CABLE PROTECTION. ROUTE NEW 1" CONDUIT AND FIRE ALARM CABLE FROM BOX TO CRAWL SPACE OF NEW BUILDING AS SHOWN.
- 16 PROVIDE AND INSTALL A CHRISTY N9 FULL BOX (FIRE ALARM), REINFORCED CONCRETE LID AND EXTENSIONS. BACKFILL AROUND BOX TO MATCH CONDITIONS. PROVIDE BELL ENDS ON ALL CONDUITS IN BOX FOR CABLE PROTECTION. ROUTE FIRE ALARM CABLE AS SHOWN.
- 17 (E) FULL BOX ON BUILDING NEAR GRADE WITH POWER CONDUCTORS IN BOX. COORDINATE WHERE POWER CIRCUIT IS BEING FED FROM AND TURN OFF BREAKER. DISCONNECT (E) RED & GREEN #10 POWER CONDUCTORS IN BOX AND REMOVE BACK TO NEW FULL BOX (NUMBERED NOTE 18).
- 18 (E) (3) 2 1/2" CONDUITS WITH POWER CONDUCTORS FROM SUBSTATION OVER TO SCIENCE CLASSROOM BUILDING AS SHOWN. INTERCEPT CONDUITS & CONDUCTORS AND ROUTE UP INTO NEW FULL BOX. PROVIDE A CHRISTY N40 FULL BOX (ELECTRICAL), REINFORCED CONCRETE LID AND EXTENSIONS & INSTALL OVER CONDUITS. BACKFILL AROUND BOX TO MATCH (E) CONDITIONS. PROVIDE BELL ENDS ON ALL CONDUITS IN BOX FOR CABLE PROTECTION. SPLICE POWER CONDUCTORS IN BOX AND EXTEND NEW #10 CONDUCTORS IN NEW CONDUIT OVER TO NEW FULL BOX (NUMBERED NOTE 20).
- 19 ROUTE (3) 2 1/2" CONDUITS AND NEW #10 POWER CONDUCTORS FROM NEW FULL BOX AROUND NEW EARLY LEARNING CENTER BUILDING AND OVER TO NEW FULL BOX NEAR WALKWAY AS SHOWN.
- 20 PROVIDE AND INSTALL A CHRISTY N40 FULL BOX (ELECTRICAL), REINFORCED CONCRETE LID AND EXTENSIONS. BACKFILL AROUND BOX TO MATCH CONDITIONS. PROVIDE BELL ENDS ON ALL CONDUITS IN BOX FOR CABLE PROTECTION. ONCE NEW CONDUITS ARE EXTENDED TO THIS BOX PER NUMBERED NOTE 21, ROUTE NEW #10 CONDUCTORS IN NEW CONDUIT AND (E) CONDUIT OVER TO FULL BOX ON SCIENCE BUILDING. RECONNECT NEW CONDUCTORS TO (E) CIRCUIT. TURN CIRCUIT BACK ON FOR A COMPLETE AND OPERATIONAL INSTALLATION.
- 21 (E) (3) 2 1/2" CONDUITS. INTERCEPT, PROVIDE 90 DEGREE ELBOW AND EXTEND CONDUITS DOWN TO NEW FULL BOX. ROUTE CONDUITS UP INTO NEW FULL BOX. PROVIDE BELL ENDS.
- 22 REMOVE (E) (3) CONDUITS THAT HAVE BEEN ABANDONED FOR NEW BUILDING PAD. RE-FILL AND COMPACT (E) MATERIAL.
- 23 (E) (5) 4" CONDUITS ROUTED BELOW GRADE FROM THE SUBSTATION TO THE REMODELED LIBRARY BUILDING UNDER DSA APPLICATION #02-116161 AND TO REMAIN. THE (5) 4" CONDUITS WERE TRENCHED AND BORED. USE CAUTION IN THE AREA OF THE (5) 4" CONDUITS SHOWN. DEPTHS OF CONDUITS SHOWN FOR CLARIFICATION.



**HMR ARCHITECTS**

2130 21st Street  
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Date Signed: August 12, 2022

**DSA #02-120119**  
**FILE #48-C1**

**EARLY LEARNING CENTER**

**SOLANO COMMUNITY COLLEGE**  
**4000 SUISUN VALLEY RD.**  
**FAIRFIELD, CA 94534**

**SUBMITTAL SET**

**REVISIONS**

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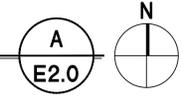
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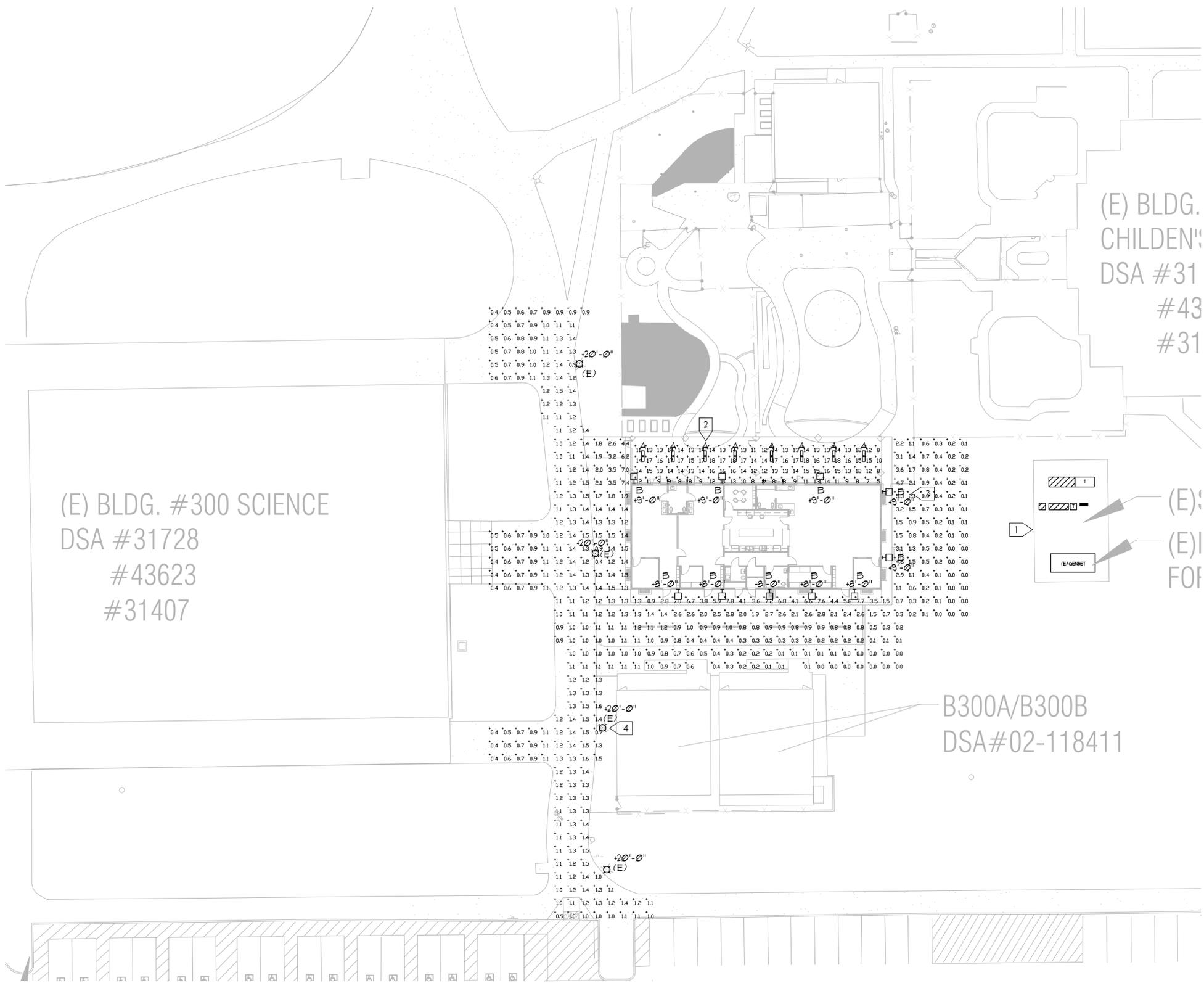
ELECTRICAL SITE PLAN & NOTES

MAY 17, 2022

DRAWN BY: JD	<b>E2.0</b>
CHECKED BY: RH	
JOB NO. 21052	

**ELECTRICAL SITE PLAN**  
SCALE: 1" = 20'-0"





**NUMBERED NOTES**

- 1 (E) CAMPUS SUBSTATION AND GENERATOR TO REMAIN.
- 2 NEW LED LIGHT FIXTURE UNDER CANOPY. SEE LIGHTING FLOOR PLAN ON SHEET E3.0 FOR CIRCUITING AND FIXTURE MOUNTING.
- 3 NEW LED WALL PACK LIGHT FIXTURE ON BUILDING PROVIDED BY BUILDING MANUFACTURER. THE HEIGHT SHOWN IS TO CENTER OF FIXTURE.
- 4 (E) POLE MOUNTED, LED SITE LIGHTING FIXTURE TO REMAIN. HEIGHT SHOWN IS TO LENS OF FIXTURE.

IDENTIFICATION STAMP  
 DIV. OF THE STATE ARCHITECT  
 APP: 02-120119 INC:  
 REVIEWED FOR  
 SS  FLS  ACS   
 DATE: 08/23/2022

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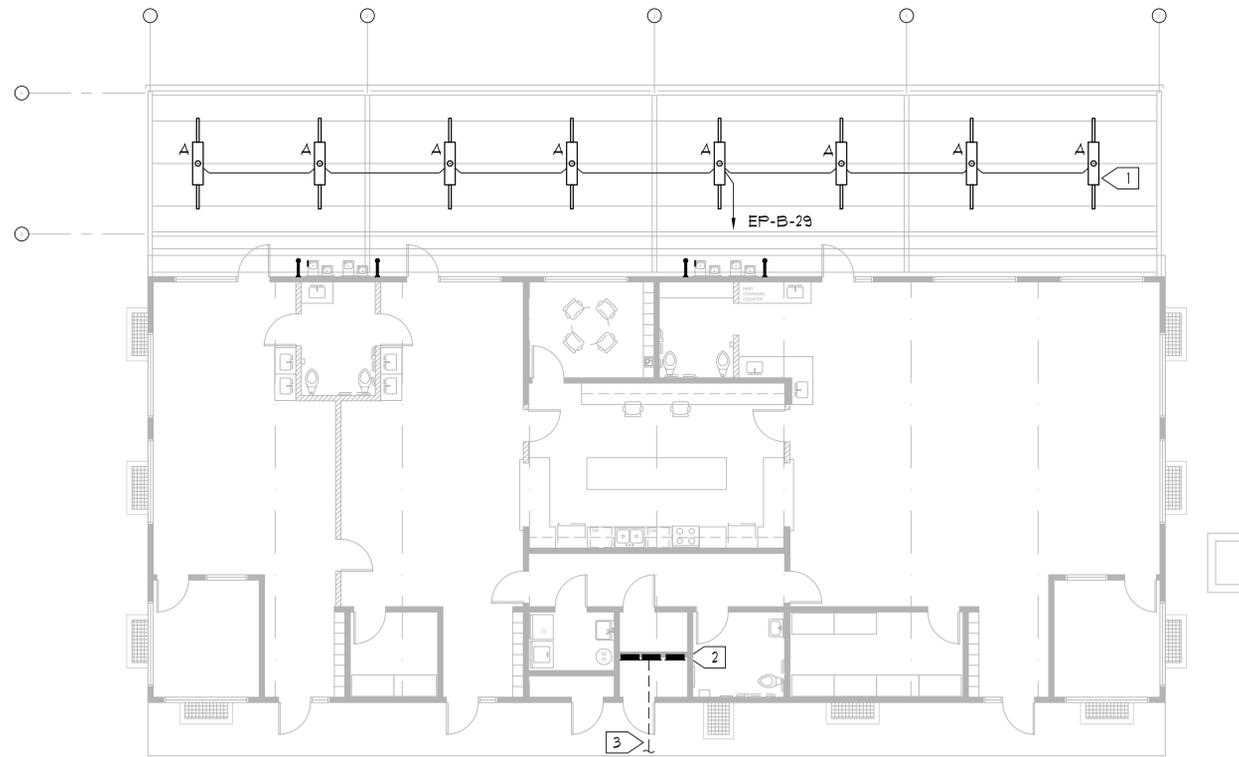
ELECTRICAL SITE LIGHTING  
 PHOTOMETRIC PLAN & NOTES

MAY 17, 2022

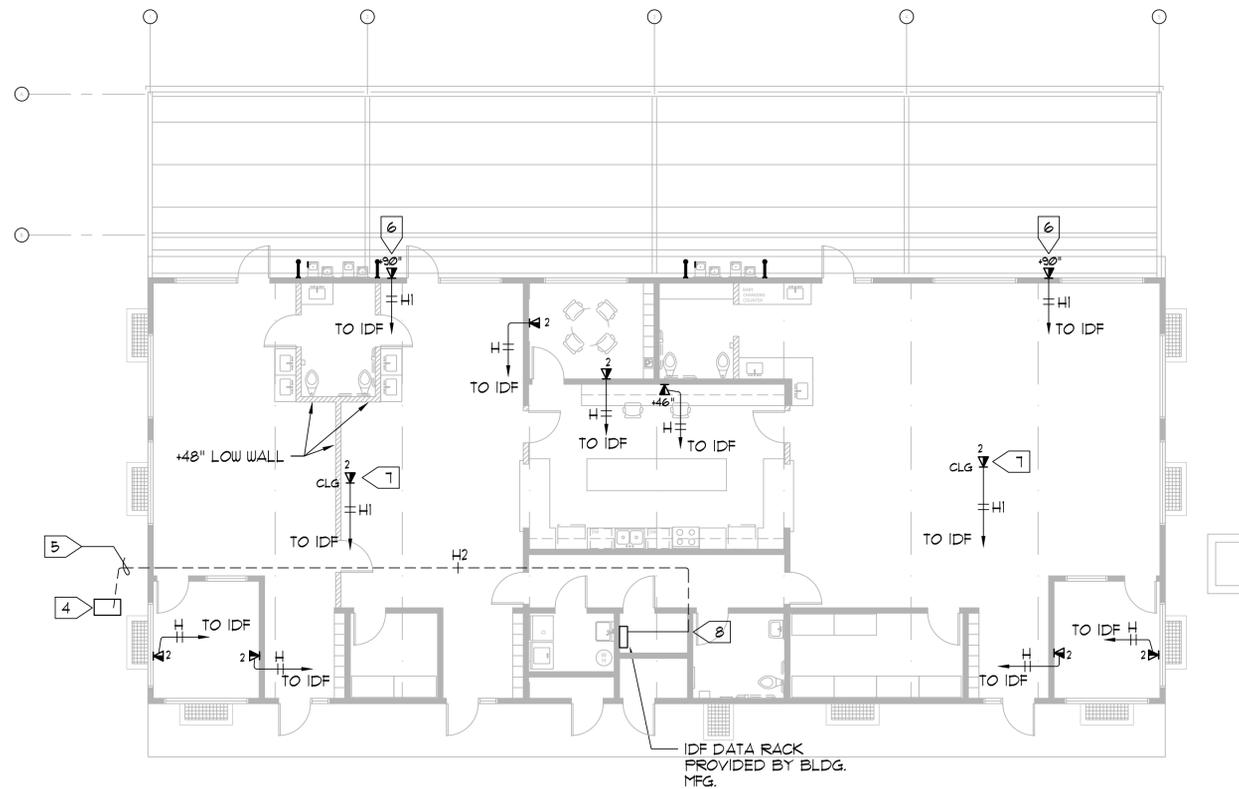
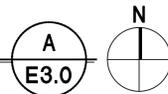
DRAWN BY:  
 JD  
 CHECKED BY:  
 RH  
 JOB NO:  
 21052

**E2.1**

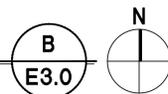
**SITE LIGHTING PHOTOMETRIC PLAN**  
 SCALE: 1" = 20'-0"  
 A  
 E2.1



**POWER PLAN**  
SCALE: 1/8" = 1'-0"



**SIGNAL PLAN**  
SCALE: 1/8" = 1'-0"



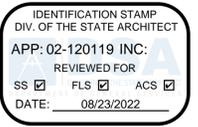
**NUMBERED NOTES**

- 1 NEW LIGHT FIXTURE MOUNTED TO UNISTRUT UNDER NEW CANOPY. TYPICAL OF (8) LIGHT FIXTURES. PROVIDE AND INSTALL UNISTRUT AND NEW LIGHT FIXTURE. UNISTRUT TO SPAN (3) STRUCTURAL JOISTS. CIRCUIT NEW LIGHT FIXTURE AS SHOWN. SUPPORT CONDUIT TO BEAM WITH CONDUIT CLAMP BETWEEN LIGHT FIXTURES. SEE DETAIL E/E12 FOR MOUNTING. UNISTRUT AND CONDUIT TO BE PAINTED THE SAME COLOR AS THE CANOPY.
  - 2 (E) ELECTRICAL PANELS EP-A, EP-B & EP-C. PANELS INSTALLED AND PROVIDED BY BUILDING MANUFACTURER. CONTRACTOR TO CONNECT FEEDER TO PANEL EP-B AND GROUND PANEL PER DETAILS FOR A COMPLETE AND OPERATIONAL INSTALLATION. SEE ONE LINE DIAGRAM A/E11.
  - 3 ELECTRICAL FEEDER FROM (E) DISTRIBUTION PANEL PDI TO BUILDING ELECTRICAL PANEL EP-B. SEE ONE LINE DIAGRAM A/E11 FOR SIZE & QUANTITY OF CONDUIT AND CONDUCTORS. SEE SITE PLAN SHEET E2.0 FOR CONTINUATION OF CONDUIT(S) AND CONDUCTORS.
  - 4 (E) SIGNAL FULL BOX. SEE SITE PLAN SHEET E2.0 FOR SIZE OF FULL BOX.
  - 5 FROM (E) FULL BOX, ROUTE 12 STRAND 5MFO CABLE IN (1) 2" CONDUIT WITH 1 1/2" INNER DUCT & FULL ROPE AND (1) 2" SPARE CONDUIT WITH FULL ROPE, BELOW GRADE OVER TO NEW LEARNING CENTER BUILDING AND ROUTE THROUGH FOOTING OF BUILDING INTO CRAWL SPACE. SEE BUILDING MANUFACTURER'S POINT OF CONNECTION DETAILS. ONCE IN CRAWL SPACE UNDER BUILDING, ROUTE 2" CONDUIT, INNER DUCT AND 12 STRAND 5MFO CABLE OVER TO LOW VOLTAGE CONDUIT STUBS. CONNECT TO (1) 2" STUB AND ROUTE INNER DUCT AND 12 STRAND 5MFO CABLE UP TO ATTIC SPACE AND THEN OVER TO NEW IDF. AT IDF, ROUTE CONDUIT AND FIBER OPTIC CABLE DOWN TO IDF AND CONNECT TO IDF. COORDINATE CONNECTION REQUIREMENTS WITH COLLEGE IT DEPARTMENT AND BUILDING MANUFACTURER'S PLANS.
  - 6 INSTALL THE (2) DATA CABLES SHOWN IN THE EXTERIOR JUNCTION BOX (PROVIDED BY BUILDING MANUFACTURER) AT 90°. COORDINATE WITH COLLEGE IT DEPARTMENT. PROVIDE 10' OF CABLES COILED INSIDE BUILDING IN ATTIC SPACE AT EACH LOCATION TO ALLOW FOR FUTURE CONNECTIONS ON EXTERIOR OF BUILDING.
  - 7 DATA OUTLET ABOVE T-BAR CEILING FOR FUTURE WIRELESS ACCESS POINT (WAP) ON CEILING. PROVIDE A (2) JACK BISCUIT BOX AND CONNECT CAT6A CABLES TO BISCUIT. PROVIDE 10' OF CABLES COILED INSIDE ATTIC SPACE TO ALLOW FOR WAP PLACEMENT ON CEILING. COORDINATE WITH COLLEGE IT DEPARTMENT. COORDINATE EXACT LOCATION WITH MECHANICAL & FIRE SPRINKLER PLANS, CONTRACTORS AND SOLARTUBES IN FIELD.
- (4) 2" LOW VOLTAGE CONDUITS PROVIDED BY BUILDING MANUFACTURER FOR LOW VOLTAGE CONNECTIONS IN CRAWL SPACE. SEE BUILDING MANUFACTURE PLANS. USE (1) 2" CONDUIT FOR FIBER CONNECTION PER NUMBERED NOTE 5.

**GENERAL DATA NOTES**

1. ALL DATA CABLES SHALL BE ROUTED BACK TO THE NEW IDF AS SHOWN. CONTRACTOR SHALL COORDINATE WITH COLLEGE DISTRICT IT DEPARTMENT FOR A COMPLETE & OPERATIONAL DATA SYSTEM FOR THE CAMPUS.
2. THE PHONE SYSTEM AT THE SCHOOL WILL BE A VOIP SYSTEM. COORDINATE WITH THE COLLEGE DISTRICT TO PROVIDE THE CORRECT PHONE FOR EACH CLASSROOM/OFFICE.
3. AT EACH OF THE DATA LOCATIONS SHOWN ON A WALL, THE BUILDING MANUFACTURER WILL BE INSTALLING A JUNCTION BOX WITH 3/4" CONDUIT ROUTED TO ACCESSIBLE ATTIC SPACE ABOVE T-BAR CEILING. CONTRACTOR TO PROVIDE DATA CABLES SHOWN AND INSTALL RJ45 JACKS IN JUNCTION BOX WITH A 2 PORT COVER PLATE FOR A COMPLETE AND OPERATIONAL INSTALLATION.

SIGNAL CABLE SCHEDULE	
TYPE	DESCRIPTION
H	CATEGORY 6 (DATA)
H1	CATEGORY 6A (WIRELESS ACCESS POINT - WAP)
H2	12 STRAND SINGLE MODE FIBER OPTIC (DATA BACKBONE)
PROVIDE AQUASEAL FOR UNDERGROUND CABLES. CONTRACTOR SHALL COORDINATE WITH COLLEGE IT DEPARTMENT FOR EXACT MANUFACTURER AND MODEL NUMBER OF SINGLE MODE FIBER OPTIC AND DATA CABLES.	



**HMR ARCHITECTS**

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Date Signed: August 12, 2022



DSA #02-120119  
FILE #48-C1

EARLY LEARNING  
CENTER

SOLANO COMMUNITY  
COLLEGE  
4000 SUISUN VALLEY RD.  
FAIRFIELD, CA 94534

SUBMITTAL SET

REVISIONS

NO.	DESCRIPTION	DATE

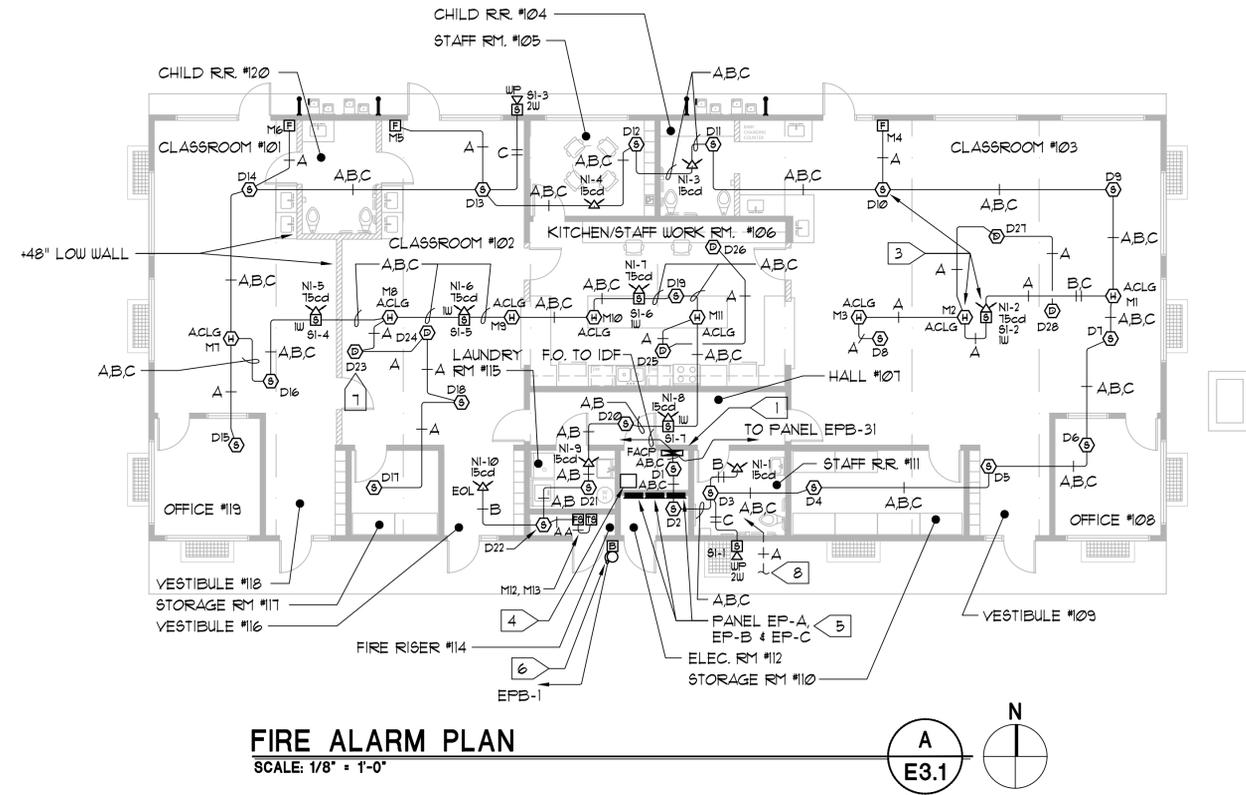
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ELECTRICAL POWER, SIGNAL  
PLANS & NOTES

MAY 17, 2022

DRAWN BY: JD  
CHECKED BY: RH  
JOB NO: 21052

**E3.0**



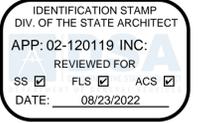
**FIRE ALARM PLAN**  
SCALE: 1/8" = 1'-0"

**NUMBERED NOTES**

- 1 PROVIDE NEW EDWARDS EST3 FIRE ALARM CONTROL PANEL WITH VOICE EVACUATION AND INSTALL ON WALL IN LOCATION SHOWN. CONNECT FACP TO CAMPUS WIDE F.A. SYSTEM WITH FIBER OPTIC CABLE ROUTED OVER TO IDF. CONNECT TO 5LC LOOP. VOICE EVAC CIRCUIT #1 AND ROUTE CONDUCTORS AS SHOWN TO NEW FIRE ALARM DEVICES. SEE FIRE ALARM EQUIPMENT SCHEDULE AND RISER DIAGRAM ON SHEET E12. COORDINATE EXACT MOUNTING IN FIELD. COORDINATE CONNECTION TO IDF WITH DISTRICT IT DEPARTMENT.
- 2 BUILDING ELECTRICAL PANEL. CONNECT (2) #2 CU & (1) #2 CU GROUND ROUTED FROM FACP IN 1/2" CONDUIT AND CONNECT TO NEW RED CIRCUIT BREAKER IN PANEL FOR A COMPLETE & OPERATIONAL INSTALLATION. PER MFG. BUILDING PLANS, F.A. CIRCUIT BREAKER IS PROVIDED. IF CIRCUIT BREAKER IS NOT PROVIDED IN MFG. BUILDING PANEL, PROVIDE A RED, 20 AMP, 1 PHASE CIRCUIT BREAKER WITH LOCK ON TAB AND INSTALL IN (E) SPACE. VERIFY WITH BUILDING PANEL BEFORE INSTALLING NEW CIRCUIT BREAKER.
- 3 FIRE ALARM NOTIFICATION DEVICE AND SMOKE DETECTORS MOUNTED IN CEILING. HEAT DETECTORS ARE MOUNTED IN ACCESSIBLE CEILING SPACE ABOVE T-BAR. TYPICAL FOR ALL DEVICES. SEE A/E12 FOR DEVICE ELEVATION DETAIL.
- 4 IDF DATA RACK IN IT CLOSET #13. ROUTE FIBER OPTIC CABLE FROM FACP TO IDF RACK FOR CONNECTION TO COLLEGE FIRE ALARM NETWORK. COORDINATE EXACT CONNECTION REQUIREMENTS AND FIBER OPTIC CABLE REQUIREMENTS WITH COLLEGE IT DEPARTMENT FOR A COMPLETE AND OPERATIONAL INSTALLATION.
- 5 BUILDING ELECTRICAL PANELS. PANELS ARE SUPPLIED BY BUILDING MANUFACTURER.
- 6 120 VOLT, 10" FIRE SPRINKLER BELL. CONNECT TO 120 VOLT CIRCUIT AS SHOWN AND ROUTE INTO BUILDING AND OVER TO FLOW SWITCH PER BUILDING FIRE SPRINKLER PLANS. COORDINATE CONNECTIONS TO FLOW SWITCH WITH INSTALLATION REQUIREMENTS. MAKE ALL CONNECTIONS FOR A COMPLETE AND OPERATIONAL INSTALLATION.
- 7 DUCT SMOKE DETECTOR. PROVIDE AND INSTALL A DUCT SMOKE DETECTOR AND SAMPLING TUBES INTO SUPPLY DUCT. DUCT SMOKE DETECTOR TO SHUT DOWN HVAC UNIT WHEN SENSING SMOKE. PROVIDE WIRING FROM DUCT SMOKE DETECTOR TO HVAC UNIT. COORDINATE EXACT CONNECTION REQUIREMENTS IN FIELD WITH MECHANICAL CONTRACTOR AND MECHANICAL EQUIPMENT INSTALLATION REQUIREMENTS FOR A COMPLETE AND OPERATIONAL INSTALLATION. TYPICAL OF (6).
- 8 (1) 1" CONDUIT ROUTED BELOW GRADE INTO ACCESS AND THEN OVER TO LOW VOLTAGE CONDUIT STUBS. COORDINATE EXACT ROUTING INTO ACCESS WITH SITE PLAN SHEET E2.0 AND BUILDING MANUFACTURER'S PLANS. ROUTE F.A. CABLE UP IN (1) 2" CONDUIT TO ATTIC SPACE. ONCE IN ATTIC SPACE, ROUTE OVER TO ABOVE FIRE ALARM CONTROL PANEL "FACP". ONCE ABOVE FACP, ROUTE F.A. CABLE DOWN IN 1/2" CONDUIT AND CONNECT TO FACP. CONDUIT FOR FIRE ALARM CABLE OUT TO TAMPER SWITCH AT POST INDICATOR VALVE "PIV". SEE SHEET E2.0 FOR CONTINUATION.

**GENERAL NOTE**

CONTRACTOR SHALL COORDINATE THE EXACT LOCATION FOR THE EXTERIOR SPEAKER/STROBES WITH BUILDING MANUFACTURER'S PLANS.



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Date Signed: August 12, 2022



**DSA #02-120119**  
**FILE #48-C1**

**EARLY LEARNING CENTER**

**SOLANO COMMUNITY COLLEGE**  
**4000 SUISUN VALLEY RD.**  
**FAIRFIELD, CA 94534**

**SUBMITTAL SET**

**REVISIONS**

NO.	DESCRIPTION	DATE

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**FIRE ALARM PLAN & NOTES**

MAY 17, 2022

DRAWN BY: JD  
CHECKED BY: RH  
JOB NO. 21052

**E3.1**



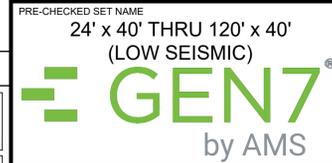
SOLANO COMMUNITY COLLEGE  
CHILD DEVELOPMENT CENTER  
(1) 96'X40' BUILDING



IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-120119 INC:  
REVIEWED FOR  
SS  FLS  ACS   
DATE: 08/23/2022

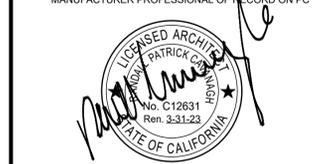


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PRE-CHECKED SET NAME  
24' x 40' THRU 120' x 40'  
(LOW SEISMIC)  
SOLANO COMMUNITY COLLEGE DISTRICT  
CHILD DEVELOPMENT CENTER  
(1) 96'X40' BUILDING

2019 CBC PRE-CHECK (PCI) DOCUMENT  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.  
MANUFACTURER PROFESSIONAL OF RECORD ON PC



THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS

DRAWN BY: KA  
SCALE: AS NOTED  
DATE: 05/04/22  
PROJECT NO: 1665-21

SHEET TITLE: TITLE SHEET

SHEET NUMBER:

APPLICABLE CODES

- PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2019
- 2019 CALIFORNIA ADMINISTRATIVE CODE (CAC) - PART 1, TITLE 24, CCR
  - 2019 CALIFORNIA BUILDING CODE (CBC), VOLUME 1 & 2 - (PART 2, TITLE 24 CCR) BASED ON THE 2018 INTERNATIONAL BUILDING CODE WITH 2019 CALIFORNIA AMENDMENTS
  - 2019 CALIFORNIA ELECTRICAL CODE (CEC) - (PART 3, TITLE 24, CCR) BASED ON THE 2017 NATIONAL ELECTRIC CODE WITH 2019 CALIFORNIA AMENDMENTS
  - 2019 CALIFORNIA MECHANICAL CODE (CMC) - (PART 4, TITLE 24, CCR) BASED ON THE 2018 IAPMO UNIFORM MECHANICAL CODE WITH 2019 CALIFORNIA AMENDMENTS
  - 2019 CALIFORNIA PLUMBING CODE (CPC) - (PART 5, TITLE 24, CCR) BASED ON THE 2018 IAPMO UNIFORM PLUMBING CODE WITH 2019 CALIFORNIA AMENDMENTS
  - 2019 CALIFORNIA ENERGY CODE (CEC) - (PART 6, TITLE 24, CCR)
  - 2019 CALIFORNIA FIRE CODE (FC) - (PART 9, TITLE 24, CCR) BASED ON THE 2018 INTERNATIONAL FIRE CODE WITH 2019 CALIFORNIA AMENDMENTS
  - 2019 CALIFORNIA GREEN BUILDING CODE (CGC) - (PART 11, TITLE 24, CCR)
  - 2019 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR)
- PARTIAL LIST OF APPLICABLE STANDARDS
- NFPA 13 AUTOMATIC SPRINKLER SYSTEM 2016 EDITION
  - NFPA 14 STANDPIPE AND HOSE SYSTEMS 2016 EDITION
  - NFPA 17 DRY CHEMICAL EXTINGUISHING SYSTEMS 2017 EDITION
  - NFPA 17A WET CHEMICAL EXTINGUISHING SYSTEMS 2017 EDITION
  - NFPA 20 STATIONARY PUMPS 2016 EDITION
  - NFPA 24 PRIVATE FIRE MAINS 2016 EDITION
  - NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE (CALIFORNIA AMENDED) (NOTE: SEE UL STANDARD 1971 FOR "VISUAL DEVICES") 2016 EDITION
  - NFPA 253 CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS 2015 EDITION
  - NFPA 2001 CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMMENDED) 2015 EDITION

GENERAL NOTES

- SUBSTITUTION OF PRODUCTS OR PROCESSES WHICH CHANGE THE STRUCTURAL SAFETY, FIRE & LIFE-SAFETY, OR ACCESSIBILITY OF THIS BUILDING SHALL BE SUBMITTED TO THE DSA AS AN ADDENDUM OR CONSTRUCTION CHANGE DOCUMENT.
- PC BUILDING APPROVED ONLY FOR OCCUPANCY "E" OR "B".
- PC BUILDING EXITING IS BASED ON THE USE OR OCCUPANCY AND WILL BE REVIEWED AS SITE SPECIFIC.
- PC BUILDINGS LOCATED IN FIRE HAZARD SEVERITY ZONES PER WILDLAND URBAN INTERFACE FIRE AREAS (WUI) SHALL CONFORM TO CBC CHAPTER 7A. PC IS NOT APPROVED FOR WUI.
- AUTOMATIC SPRINKLER SYSTEMS MIGHT BE REQUIRED FOR SITE SPECIFIC PROJECTS. OPTIONAL AUTOMATIC FIRE SPRINKLER DESIGNS ARE INCLUDED IN THIS PC APPROVAL. (NOTE: SEE BUILDING DATA THIS SHEET FOR FIRE SPRINKLER SYSTEM WEIGHT INCLUDED IN BUILDING DESIGN)
- FIRE SERVICE UNDERGROUND SHALL BE REVIEWED AS A SITE SPECIFIC APPLICATION. WATER SUPPLY SHALL BE DESIGNED TO MEET THE PC SPRINKLER DEMAND REQUIREMENTS.
- PROVIDE A SITE SPECIFIC FIRE FLOW LETTER OF CERTIFICATION FROM AN APPROVED WATER PURVEYOR OR LOCAL FIRE AUTHORITY.
- THIS PC PLAN SHALL NOT BE USED TO HOUSE "ROOMS OR AREAS WITH SPECIAL HAZARDS" SUCH AS LABORATORIES, VOCATIONAL SHOPS AND OTHER SUCH AREAS NOT CLASSIFIED AS GROUP "H", LOCATED IN GROUP "E" OCCUPANCIES.
- A SEPARATE NON-PC DSA APPLICATION NUMBER (SITE SPECIFIC JOB OR STOCKPILE) IS REQUIRED FOR DESIGN & ROOF-TOP INSTALLATION OF SOLAR PANEL SYSTEMS. ITS ANCHORAGE & SUPPORT STRUCTURE ABOVE THE ROOF FRAMING. THE PC ROOF FRAMING IS DESIGNED FOR SOLAR PANELS TO BE INSTALLED FLAT ON THE ROOF. PV PANELS MAY BE INSTALLED ON OPTIONAL SUN-SHADE OVERHANGS AS PART OF THE APPROVED PC IF INSTALLED BY AMS AS SHOWN ON SHEET A2.0 AND DETAILED ON SHEET E1.3. (NOTE: SEE BUILDING DATA THIS SHEET FOR SOLAR PANEL SYSTEM WEIGHT & WIND LOAD INCLUDED IN BUILDING DESIGN FOR ROOF-TOP & SUN-SHADE INSTALLATION.) SUBMITTALS OF ROOF-TOP SOLAR SYSTEM AND SOLAR PANELS ATTACHED TO THE SUN-SHADES OTHER THAN THE AMS INSTALLATION PER SHEET E1.3 SHALL NOT BE SUBMITTED AS AN OVER-THE-COUNTER SUBMITTAL.
- IF THE STRUCTURE IS LOCATED IN AN AREA WITH LIQUEFIABLE SOIL OR SITE CLASS F, OVER-THE-COUNTER SUBMITTAL IS NOT ALLOWED AND SITE SPECIFIC PROJECT SUBMITTAL IS REQUIRED. IF THE SITE IS NOT IN A MAPPED LIQUEFACTION HAZARD ZONE, IT MAY BE PRESUMED THAT NO LIQUEFACTION HAZARD EXISTS ON THAT SITE UNLESS A SITE-SPECIFIC GEOTECHNICAL REPORT IDENTIFIES SUCH HAZARD.
- THIS PC BUILDING IS NOT DESIGNED FOR FLOOD HAZARD AREAS. WHEN A SITE-SPECIFIC PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED AND SIGNED FROM A GEOTECHNICAL ENGINEER IS NEEDED TO VALIDATE THAT THE ALLOWABLE SOIL VALUES SPECIFIED IN THE PC DRAWINGS ARE STILL APPLICABLE, UNLESS THE BOTTOMS OF FOUNDATIONS ARE RAISED ABOVE THE DESIGN FLOOD ELEVATION. A VALIDATION LETTER FROM THE GEOTECHNICAL ENGINEER SHALL BE PROVIDED, EVEN IF THE PRESUMPTIVE LOAD-BEARING VALUES PER CBC SECTION 1806A.2 ARE USED. PROJECT SHALL BE EXEMPT FROM THE VALIDATION LETTER FOR PROJECTS LOCATED IN ZONE D (UNDEFINED) IF THE APPLICANT PROVIDES EVIDENCE FROM THE LOCAL JURISDICTION OR A QUALIFIED DESIGN PROFESSIONAL CONFIRMING THAT THE SITE IS NOT IN A FLOOD HAZARD ZONE. LOCATION OF ELECTRICAL ELEMENTS SHALL CONFORM TO THE AMERICAN SOCIETY OF CIVIL ENGINEERS' THE PLACEMENT OF THE PC BUILDING(S) ON OR ADJACENT TO SLOPES SHALL COMPLY WITH THE FOUNDATION CLEARANCES FROM SLOPES' SPECIFICATIONS FOUND ON SHEET N2.0 OF THESE DRAWINGS.
- PC BUILDING SHALL NOT BE PLACED OR BE RELOCATED IN AREAS HAVING A NOISE CONTOUR GREATER THAN OR EQUAL TO 65 CNEL, OR IN AREAS EXPOSED TO A NOISE LEVEL OF 65 dB Leq 1-hr DURING ANY HOUR OF OPERATION WHEN NOISE CONTOURS ARE NOT READILY AVAILABLE, AS SPECIFIED IN CALGREEN CODE, SECTION 5.507.4.1 & 5.507.4.1.1.
- AT SITES WITH SNOW, THE SITE APPLICATION REVIEWER SHALL VERIFY THE STRUCTURE TO BE LOCATED AT LEAST 20 FEET AND AT LEAST SIX TIMES THE VERTICAL SEPARATION DISTANCE FROM ANY ADJACENT STRUCTURE. SEE ASCE 7, SECTION 7.7.2. IF THE HORIZONTAL SEPARATION IS LESS THAN 20 FT. OR SIX TIMES THE VERTICAL SEPARATION DISTANCE, SNOW DRIFT ANALYSIS SHALL BE PROVIDED BY THE PC APPLICANT, AND THE PROJECT IS NOT ELIGIBLE FOR OTC SUBMITTAL. VERTICAL SEPARATION DISTANCE IS DEFINED AS THE VERTICAL DISTANCE IN FEET BETWEEN THE EDGE OF A HIGHER ROOF, INCLUDING ANY PARAPET, AND THE EDGE OF A LOWER ADJACENT ROOF EXCLUDING ANY PARAPET.
- THIS PC BUILDING IS NOT DESIGNED FOR ICE LOADS.
- BUILDING SHALL BE MANUFACTURED IN COMPLIANCE WITH CFC CHAPTER 33 FOR FIRE SAFETY DURING CONSTRUCTION.
- SUBMITTAL AND APPROVAL OF A GEOHAZARD REPORT BY THE CALIFORNIA GEOLOGICAL SURVEY (CGS) IS NOT REQUIRED FOR SINGLE-STORY MODULAR BUILDINGS PROVIDED THAT THEY DO NOT EXCEED 4,000 SQUARE FEET IN PLAN AREA AND ARE NOT LOCATED WITHIN STATE OR LOCAL GEOLOGICAL HAZARD ZONES IN ACCORDANCE WITH IR A-4, SECTION 3.2.1.

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BUILDING DATA

OCCUPANCY	E		
TYPE OF CONSTRUCTION	V-B		
WIND LOAD ASCE 7-16 SECTION 28.5.3 SIMPLIFIED PROCEDURE	V = 99 MPH BASIC WIND SPEED EXPOSURE = C INTERNAL PRESSURE COEFF., GC <sub>pj</sub> = ±0.18 ROOF ANGLE = 4.8°	RISK CATEGORY II K <sub>zT</sub> = 1.00 λ = 1.21	
ICE LOAD	NOT CONSIDERED, SEE GENERAL NOTE #15 THIS SHEET		
SITE SPECIFIC SNOW LOAD	SITE SPECIFIC GROUND SNOW LOAD, P <sub>g</sub> = 0 PSF (SEE GENERAL NOTE #14 THIS SHEET IF > 0)		
	SITE SPECIFIC ROOF EXPOSURE FACTOR, C <sub>e</sub> (REFERENCE ASCE 7-16 TABLE 7.3-1): <input type="checkbox"/> FULLY EXPOSED, C <sub>e</sub> = 0.9 <input type="checkbox"/> PARTIALLY EXPOSED, C <sub>e</sub> = 1.0 <input type="checkbox"/> SHELTERED, C <sub>e</sub> = 1.2 <input checked="" type="checkbox"/> NOT APPLICABLE ( P <sub>g</sub> = 0 PSF)		
	ROOF SLOPE FACTOR, C <sub>s</sub> = 1.0	THERMAL FACTOR, C <sub>t</sub> = 1.0	IMPORTANCE FACTOR, I <sub>b</sub> = 1.00
ROOF LIVE OR ROOF SNOW LOAD (MAX PSF)	<input checked="" type="checkbox"/> 20 (NO SNOW)	<input type="checkbox"/> 20 SNOW*	<input type="checkbox"/> 30 SNOW* * AT SITES W/ SNOW (SEE GENERAL NOTE #14 THIS SHEET)
FLOOR LIVE LOAD (PSF)	<input checked="" type="checkbox"/> 50+15	<input type="checkbox"/> 100	<input type="checkbox"/> 150 (NON-STORAGE)
DESIGN DEAD LOADS (MAX PSF)	25.0 ROOF & ROOF OVERHANGS - 50.0 CONC. FLR 18.0 EXTERIOR WALLS - 15.0 FRONT SUNSHADE		
FIRE SPRINKLER SYSTEM DESIGN WT.	1.5 PSF AT ROOF (SEE GENERAL NOTES #5 - #7 THIS SHEET)		
SOLAR PANEL SYSTEM DESIGN WT.	3.0 PSF AT ROOF & AT FRONT SUNSHADE OVERHANG (INCLUDED IN DESIGN DEAD LOADS ABOVE) (SEE GENERAL NOTE #9 THIS SHEET)		
ALLOWABLE SOIL PRESSURE (PSF)	1,500 (PC DESIGNED USING ALTERNATIVE BASIC LOAD COMBINATIONS PER CBC 1605A.3.2.)		
FLOOD HAZARD AREA	NO (SEE GENERAL NOTE #11 THIS SHEET)		
RAIN INTENSITY (IN/HR)	3" MAX.		
BUILDING AREA (SQ. FT.)	3840		
CLIMATE ZONE	<input type="checkbox"/> 1-2	<input checked="" type="checkbox"/> 3-14	<input type="checkbox"/> 15 <input type="checkbox"/> 16 (REFER TO M1.7 FOR REQUIREMENTS)
MODULES	LIGHT MODULAR STEEL MOMENT FRAMES PER CBC SECTION 2212A		
FOUNDATION TYPE	CONCRETE		
SITE-SPECIFIC OPTIONS			
FLOOR DECK	<input type="checkbox"/> 1 1/2" PLYWOOD SHGT.	<input type="checkbox"/> BH-36 DECK 1 1/2" x 18 GA.	<input checked="" type="checkbox"/> 3WxH DECK 3" x 18 GA
WALL STUDS	<input checked="" type="checkbox"/> WOOD	<input type="checkbox"/> LIGHT-GAUGE STEEL	
EXTERIOR WALL FINISH	<input type="checkbox"/> SYNTHETIC STUCCO	<input type="checkbox"/> LAP SIDING	<input checked="" type="checkbox"/> STUCCO
HVAC	<input type="checkbox"/> INTERIOR FLOOR MOUNTED	<input type="checkbox"/> EXTERIOR WALL MOUNTED	<input checked="" type="checkbox"/> SPLIT SYSTEM <input type="checkbox"/> ROOF MOUNTED
ROOFING	<input checked="" type="checkbox"/> 3" x 22 GA. STANDING SEAM	<input type="checkbox"/> SINGLE-PLY	<input type="checkbox"/> BUILT-UP ROOFING
ROOF BEAMS	<input checked="" type="checkbox"/> STANDARD	<input type="checkbox"/> ALTERNATE 10 GA (LOW SEISMIC ONLY - SEE SHEET S5.3)	
SOLATUBE ON ROOF	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	
FIRE SPRINKLERS	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES (SEE GENERAL NOTES #5-#7 THIS SHEET)	
FRONT OVERHANG	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES - LENGTH: 1'-0" (SEE SHEET S5.4)	
REAR OVERHANG	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES - LENGTH: 4'-0" (SEE SHEET S5.2)	
FRONT SUN SHADE	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES (SEE SHEET S5.2)	
SOLAR PANELS	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES (SEE GENERAL NOTE #9 THIS SHEET)	
ALTERNATE OPEN CANOPY	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES - LENGTH: FRONT OH 18" (SEE SHEET S5.4)	
OPTIONAL SIDE WALL CANOPY	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES (SEE SHEET S5.4A)	
NANA WALLS	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES (SEE SHEET S8.0A @ WOOD STUDS, SEE SHEET S9.0A @ STEEL STUDS)	
LIQUEFIABLE SOILS	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES (SEE GENERAL NOTE #10 THIS SHEET)	
MAPPED GEOHAZARD ZONE	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES (AS DEFINED BY PC-6 SECTION 1.8)	
GEOHAZARD REPORT	<input type="checkbox"/> NO <input checked="" type="checkbox"/> YES		
IF YES	GEOTECHNICAL FIRM: NINYO & MOORE		
REPORT #:	404147001	REPORT DATE:	02/07/2022
DEEPER FOOTINGS REQUIRED?	<input type="checkbox"/> NO	WIDER FOOTINGS REQUIRED?	<input checked="" type="checkbox"/> YES - REQUIRED DEPTH: 18"
BELOW GRADE CONCRETE MIX DESIGN	<input type="checkbox"/> DEFAULT CONCRETE MIX DESIGN FOR BELOW GRADE CONCRETE PER SHEET N1.0A. <input type="checkbox"/> OPTIONAL SITE-SPECIFIC CONCRETE MIX DESIGN FOR BELOW GRADE CONCRETE PER SHEET N1.0A.		

SITE SPECIFIC WIND VALUES

SITE SPECIFIC BASIC WIND SPEED = 99 MAX MPH WIND EXPOSURE = C

SITE SPECIFIC SEISMIC VALUES

SITE SPECIFIC S<sub>s</sub> = 1.509 SITE SPECIFIC S<sub>1</sub> = 0.6 SITE CLASS = D

(NOTE: SITE SHALL BE SITE CLASS "D" IF NO SOILS REPORT UNLESS THERE IS EVIDENCE OF CLASS "E" OR "F" SOILS PRESENT.)

PC BUILDING SEISMIC DESIGN CRITERIA

I<sub>e</sub> = 1.0 T = 0.240s R = 3.5 (OMF) RISK CATEGORY II  
Ω<sub>0</sub> = 3.0 ρ = 1.0 SEISMIC DESIGN CATEGORY: D (S<sub>1</sub> < 0.75)  
E (S<sub>1</sub> ≥ 0.75)  
MAXIMUM STORY DRIFT RATIO = 2.0% (I.E. MAX DRIFT = 0.020 x THE HEIGHT UNDER CONSIDERATION.  
LATERAL FORCE RESISTING SYSTEM: LIGHT MODULAR STEEL MOMENT FRAMES PER 2212A  
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

NOTE:  
PER CBC 1613A.2.3,  
S<sub>DS</sub> (S<sub>DS</sub>) SHALL NOT BE  
TAKEN AS LESS THAN S<sub>DS</sub> (S<sub>DS</sub>)

NOTE:  
COMPONENTS AND CLADDING DESIGNED FOR:  
S<sub>DS</sub> = 1.75

WITH SOILS REPORT - SITE CLASS "A", "B" OR "D"

NOTE: PER EXCEPTION 2 OF ASCE 7-16 SECTION 11.4.8, A GROUND MOTION HAZARD ANALYSIS IS NOT REQUIRED FOR SITE CLASS "D".

S<sub>s</sub> = 2.291 MAX (SITE) F<sub>a</sub> = 1.0 S<sub>DS</sub> = 1.53 MAX (SITE)  
1.604 (DESIGN)\* 1.07 (DESIGN)\*  
S<sub>1</sub> = 0.943 MAX (SITE & DESIGN) F<sub>v</sub> = 1.7 S<sub>D1</sub> = 1.07 MAX (SITE & DESIGN) C<sub>s</sub> = 0.305 W (DESIGN)\*

\*PER ASCE 7-16, SECTION 12.8.1.3:  
THE VALUE OF C<sub>s</sub> AND E<sub>v</sub> ARE PERMITTED TO BE CALCULATED USING A VALUE OF S<sub>DS</sub> EQUAL TO 1.0, BUT NOT LESS THAN 70% OF S<sub>DS</sub> AS DEFINED IN SECTION 11.4.5, PROVIDED THAT ALL OF THE FOLLOWING CRITERIA ARE MET:  
1. STRUCTURE DOES NOT HAVE IRREGULARITIES;  
2. STRUCTURE DOES NOT EXCEED FIVE (5) STORIES ABOVE THE LOWER OF THE BASE OR GRADE PLANE;  
3. STRUCTURE HAS A FUNDAMENTAL PERIOD, T, THAT DOES NOT EXCEED 0.5 SECONDS;  
4. STRUCTURE MEETS REQUIREMENTS FOR REDUNDANCY FACTOR, ρ, TO BE TAKEN AS 1.0;  
5. SITE SOIL PROPERTIES ARE NOT CLASSIFIED AS SITE CLASS "E" OR "F";  
6. STRUCTURE IS CLASSIFIED AS RISK CATEGORY II.

SEE SHEET TS2 FOR SHEET INDEX

TS



AUTHORIZED USE: ALL INFORMATION INCLUDED ON THIS SHEET (FORM DSA-103) IS FOR THE SOLE PURPOSE OF RECEIVING DSA APPROVAL AND ISSUANCE OF A PC NUMBER. NO OTHER USE IS AUTHORIZED WITHOUT THE EXPRESS WRITTEN CONSENT OF AMERICAN MODULAR SYSTEMS, INC.

Additional Information for PC designs only, not to be added to DSA-103:

	STOCKPILE	CONSTRUCTION OF PERMANENT MODULAR OR RELOCATABLE BUILDING	RELOCATION OF CERTIFIED RELOCATABLE BUILDING
INSPECTOR CLASS (minimum requirements)	RBIP or Class 1	In Plant: RBIP or Class 1 Site: Class 4 for Single Story Site: Class 2 for Two-Story	Class 4 for Single Story Class 2 for Two-Story
Selection of the Project Inspector and Testing Agency	by the Owner and approved by DSA, A/E of Record and Structural Engineer	by the School District and approved by DSA, A/E responsible for in-plant construction observation.	by the Owner and approved by DSA, A/E of Record and Structural Engineer
Cost of the Project Inspector (Title 24, Part 1, Section 4-333(b)) and Testing/Special Agency (CAC, Section 4-335(b))	by the Owner	by the School District	

TEST OR INSPECTION  
(as listed on DSA-103)<sup>9</sup>

MATERIAL TYPE

	STOCKPILE		CONSTRUCTION (Diaphragm - Foundation)		RELOCATION OF CERTIFIED BUILDING
	A	B	C	D	E
WOOD FLOOR ONLY					
CONCRETE FLOOR					
WOOD FLOOR CONCRETE FOUNDATION					
CONCRETE FLOOR CONCRETE FOUNDATION					
CONCRETE FOUNDATION					

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DIV. OF THE STATE ARCHITECT  
APP: 02-120119 INC:  
REVIEWED FOR  
SS  FLS  ACS   
DATE: 08/23/2022



787 Spreckels Ave., Manteca, CA 95336  
Phone (209) 825-1921 Fax (209) 825-7018  
www.americanmodular.com

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PRE-CHECKED SET NAME  
24' x 40' THRU 120' x 40'  
(LOW SEISMIC)  
GEN7  
by AMS

SITE SPECIFIC PROJECT NAME

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DIV. OF THE STATE ARCHITECT  
APP: 02-118326-PC  
REVIEWED FOR  
SS  FLS  ACS  CG   
DATE: 07/22/2021

2019 CBC PRE-CHECK (PC) DOCUMENT  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.  
MANUFACTURER PROFESSIONAL OF RECORD ON PC



THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS

DRAWN BY:  
SCALE: AS NOTED  
DATE: MM/DD/YY  
PROJECT NO: XXXX-20

SHEET TITLE:  
FORM  
DSA-103

SHEET NUMBER:  
D1

SOILS

<b>1. GENERAL:</b>					
a. Verify that:					
• Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations.					
• Foundation excavations extended to proper depth and have reached proper material.			X	X	X
• Materials below footings are adequate to achieve the design bearing capacity.					
<b>2. COMPACTED FILLS:</b>					
a. Perform classification and testing of fill materials.			X	X	X
b. Verify use of proper materials, densities, and inspect lift thicknesses, placement and compaction during placement of fill.			X	X	X
c. Compaction testing.			X	X	X

CONCRETE

<b>7. CAST IN PLACE CONCRETE - Lightweight over Metal Deck:</b>					
a. Verify use of required design mix.		X		X	
b. Identify, sample, and test reinforcing steel <sup>(3)</sup>		X		X	
c. During concrete placement, fabricate specimens for strength tests, performing slump, and air content tests, and determine the temperature of the concrete.		X		X	
d. Test concrete (f <sub>c</sub> - compression).		X		X	
e. Batch plant inspection <sup>(1)(2)</sup> – design complies with 1705A.3.3		X		X	
f. Welding of reinforcing steel.		X		X	
<b>7. CAST IN PLACE CONCRETE - Foundation:</b>					
a. Verify use of required design mix.			X	X	X
b. Identify, sample, and test reinforcing steel <sup>(3)</sup>			X	X	X
c. During concrete placement, fabricate specimens for strength tests, performing slump, and air content tests, and determine the temperature of the concrete.			X	X	X
d. Test concrete (f <sub>c</sub> - compression).			X	X	X
e. Batch plant inspection <sup>(1)(2)</sup> – design complies with 1705A.3.3			X	X	X
f. Welding of reinforcing steel.			X	X	X
<b>11. POST-INSTALLED ANCHORS<sup>(4)</sup>:</b>					
a. Inspect installation of post-installed anchors					
b. Test post-installed anchors					

MASONRY

<b>14. VENEER OR GLASS BLOCK<sup>(5)</sup>:</b>					
a. Verify proportions of site-prepared mortar and grout and/or verify certification of premixed mortar.		X	X	X	X
b. Inspect placement of units and construction of mortar joints.		X	X	X	X
c. Inspect placement of reinforcement, connectors, and anchors.					
d. Inspect type, size, and location of anchors and all other items to be embedded in masonry including details of anchorage of masonry to structural members, frames, and other construction.					
e. Verify preparation, construction, and protection of masonry during cold weather (temperature below 40° F) or hot weather (above 90°).		X	X	X	X
f. Test veneer bond strength.		X	X	X	X

STEEL, ALUMINUM

<b>17. STRUCTURAL STEEL, COLD-FORMED STEEL, AND ALUMINUM USED FOR STRUCTURAL PURPOSES:</b>					
a. Verify identification of all materials and:					
• Mill certificates indicate material properties that comply with requirements.		X	X	X	X
• Material sizes, types and grades comply with requirements.		X	X	X	X
b. Test unidentified materials		X	X	X	X
c. Examine seam welds of HSS shapes		X	X	X	X
d. Verify and document steel fabrication per DSA approved construction documents.		X	X	X	X
<b>19. WELDING:</b>					
a. Verify weld filler material identification markings per AWS designation listed on the DSA approved documents and the WPS.		X	X	X	X
b. Verify weld filler material manufacturer's certificate of compliance.		X	X	X	X
c. Verify WPS, welder qualifications and equipment.		X	X	X	X
<b>19.1 SHOP WELDING:</b>					
a. Inspect groove, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds		X	X	X	X
b. Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds		X	X	X	X
c. Inspect welding of stairs and railing systems					
d. Verification of reinforcing steel weldability other than ASTM A706.					
e. Inspect welding of reinforcing steel.					
<b>19.2 FIELD WELDING:</b>					
a. Inspect groove, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds (See foundation anchorage - S1.6 sheets)			X	X	X
b. Inspect single-pass fillet welds ≤ 5/16" (See foundation anchorage - S1.6 sheets)			X	X	X
c. Inspect end-welded studs (ASTM A-108) installation (including bend test)					
d. Inspect floor and roof deck welds					
e. Inspect welding of structural cold-formed steel					
f. Inspect welding of stairs and railing systems					
g. Verification of reinforcing steel weldability					
h. Inspect welding of reinforcing steel.					
<b>20. NONDESTRUCTIVE TESTING<sup>(7)</sup>:</b>					
a. Ultrasonic (Test per sheet S5.1)		X	X	X	X
b. Magnetic Particle (Test per sheet S5.1)		X	X	X	X
<b>22. SPRAY APPLIED FIRE-PROOFING:</b>					
a. Examine structural steel surface conditions, inspect application, take samples, measure thickness, and verify compliance of all aspects of application with DSA approved documents.			X	X	
b. Test bond strength.					
c. Test density.					
<b>23. ANCHOR BOLTS, ANCHOR RODS, &amp; OTHER STEEL:</b>					
a. Anchor Bolts and Anchor Rods					
b. Threaded rod not used for foundation anchorage.					

OTHER

<b>26. LOAD TEST FOR IDENTIFIED PRODUCT(S):</b>					
a. Column fire rating where specified per 20/A8.0 and tested per 1705A.15		X	X	X	X

FOOTNOTES

- WAIVER OF CONTINUOUS BATCH PLANT INSPECTION (PER CBC 1705A3.3.1 AND DSA IR 17-13)
  - CONTINUOUS BATCH PLANT INSPECTION MAY BE WAIVED IF THE CONCRETE PLANT COMPLIES FULLY WITH ASTM C94, SECTION 9 AND 10, AND HAS A CURRENT CERTIFICATION FROM THE 'NATIONAL READY MIXED CONCRETE ASSOCIATION' OR ANOTHER AGENCY ACCEPTABLE TO THE ENFORCEMENT AGENCY. THE CERTIFICATION SHALL INDICATE THAT THE PLANT HAS AUTOMATIC BATCHING AND RECORDING CAPABILITIES.
  - IF THE BATCH PLANT INSPECTION IS WAIVED, THE FOLLOWING REQUIREMENTS a) THRU c) SHALL BE MET:
    - AN APPROVED AGENCY OR CERTIFIED TECHNICIAN OF THE TESTING LABORATORY SHALL CHECK THE FIRST BATCH AT START OF WORK DAY TO VERIFY MATERIALS AND PROPORTIONS CONFORM TO THE APPROVED MIX DESIGN.
    - THE LICENSED WEIGHMASTER SHALL POSITIVELY IDENTIFY QUANTITY OF MATERIALS AND CERTIFY EACH LOAD BY A BATCH TICKET.
    - BATCH TICKETS, INCLUDING MATERIAL QUANTITIES AND WEIGHTS, SHALL BE TRANSMITTED TO THE INSPECTOR OF RECORD PRIOR TO CONCRETE PLACEMENT.
- ELIMINATION OF CONTINUOUS BATCH PLANT INSPECTION (PER CBC 1705A3.3.2)
  - BATCH PLANT INSPECTION IS NOT REQUIRED FOR ANY OF THE FOLLOWING CONDITIONS:
    - SITE FLATWORK.
    - UNENCLOSED SITE STRUCTURES, INCLUDING BUT NOT LIMITED TO LUNCH OR CAR SHELTERS, BLEACHERS, SOLAR STRUCTURES, FLAG OR LIGHT POLES, OR RETAINING WALLS.
    - CONTROLLED LOW-STRENGTH MATERIAL BACKFILL, OR
    - SINGLE STORY RELOCATABLE BUILDINGS LESS THAN 2,160 SQUARE FEET.
- PER CBC 1910A.2, TESTING MAY BE WAIVED FOR ONE-STORY BUILDINGS IF A CERTIFIED MILL TEST REPORT IS PROVIDED.
- REQUIRED ONLY WHERE DETAILS SPECIFY THE USE OF THESE ATTACHMENTS.
- INSPECTION OF VENEER DETAILED ON SHT. A7.0 MAY BE WAIVED BY DSA ON A SITE SPECIFIC BASIS.
- THE APPENDIX TO DSA-103 SHALL BE COMPLETED BY THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE.
- ULTRASONIC TESTING PER DSA IR-PC2 SECTION 10.1 SHALL BE PERFORMED ON 100% OF CJP GROOVE WELDS WHEN THE COLUMNS PER SCHEDULE ON SHEET S5.1 HAVE A THICKNESS OF 3/4" OR GREATER. MAGNETIC PARTICLE TESTING SHALL BE PERFORMED ON 25% OF ALL BEAM-TO-COLUMN CJP GROOVE WELDS. NONDESTRUCTIVE TESTING OF COMPLETE JOINT PENETRATION WELDS AT GRAVITY CONNECTIONS SHALL COMPLY WITH AISC 360, CHAPTER N, PER 2019 CBC 1705A.2.1.
- EXAMPLE DSA-103 FORMS WILL BE USED AS GUIDE TO DEVELOP A SITE-SPECIFIC DSA-103 FORM FOR THE SITE-SPECIFIC PROJECT. EXAMPLE FORMS ON THE PC DRAWINGS WILL BE CROSSED OUT WHEN SITE-SPECIFIC DSA-103 FORMS ARE PROVIDED DURING OTC REVIEW.
- QUALIFIED REPRESENTATIVE OF LABORATORY OF RECORD OR APPROVED SPECIAL INSPECTOR SHALL VERIFY ALL STEEL IDENTIFICATION PER 2019 CBC 2202A.1 AND DSA IR 17-3 STRUCTURAL WELDING INSPECTION.

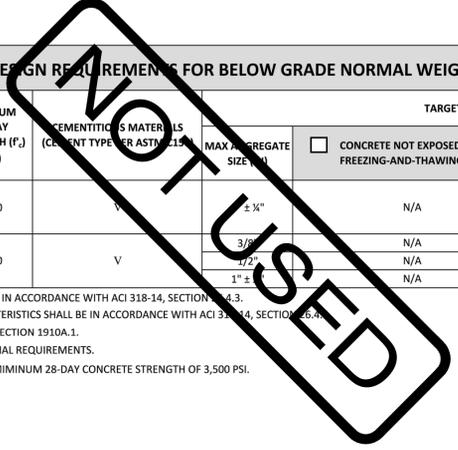


**DEFAULT CONCRETE MIX DESIGN REQUIREMENTS FOR BELOW GRADE NORMAL WEIGHT CONCRETE<sup>(1)</sup>**

BELOW GRADE CONCRETE ELEMENT	MAXIMUM W/C RATIO	MINIMUM 28-DAY STRENGTH (F <sub>c</sub> ) (PSI)	CEMENTITIOUS MATERIALS (CEMENT TYPE PER ASTM C150)	MAX AGGREGATE SIZE (IN)	TARGET AIR CONTENT (%)	
					<input type="checkbox"/> CONCRETE NOT EXPOSED TO FREEZING-AND-THAWING CYCLES	<input type="checkbox"/> CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES
FOUNDATIONS <sup>(2)</sup>	0.45	4500	V	1" ± 1/4"	N/A	6
FOUNDATION VENTS & ACCESS WELLS	0.45	4500	V	3/8"	N/A	7.5
				1/2"	N/A	7
				1" ± 1/4"	N/A	6

<sup>(1)</sup> PROPORTIONING OF CONCRETE MIXTURES SHALL BE IN ACCORDANCE WITH ACI 318-14, SECTION 26.4.3. DOCUMENTATION OF CONCRETE MIXTURE CHARACTERISTICS SHALL BE IN ACCORDANCE WITH ACI 318-14, SECTION 26.4.4. CEMENT SHALL BE CERTIFIED PER TITLE 24, PART 2, SECTION 1910A.1. SEE CONCRETE NOTES ON SHEET N1.0 FOR ADDITIONAL REQUIREMENTS.

<sup>(2)</sup> FOUNDATIONS CONSERVATIVELY DESIGNED FOR A MINIMUM 28-DAY CONCRETE STRENGTH OF 3,500 PSI.



**OPTIONAL SITE-SPECIFIC CONCRETE MIX DESIGN REQUIREMENTS FOR BELOW GRADE NORMAL WEIGHT CONCRETE<sup>(1)</sup>**  
(MOST RESTRICTIVE REQUIREMENTS FROM EXPOSURE TABLES BELOW)

BELOW GRADE CONCRETE ELEMENT	MAXIMUM W/C RATIO	MINIMUM 28-DAY STRENGTH (F <sub>c</sub> ) (PSI)	CEMENTITIOUS MATERIALS (CEMENT TYPE PER ASTM C150)	MAX AGGREGATE SIZE (IN)	TARGET AIR CONTENT (%)	MAXIMUM WATER-SOLUBLE CHLORIDE ION (Cl <sup>-</sup> ) CONTENT IN CONCRETE, PERCENT BY WEIGHT OF CEMENT
FOUNDATIONS <sup>(2)</sup>	0.55	4500	V	1" ± 1/4"	N/A	0.30
FOUNDATION VENTS & ACCESS WELLS	0.55	4500	V	3/8"	N/A	0.30
				1/2"	N/A	
				1" ± 1/4"	N/A	

<sup>(1)</sup> PROPORTIONING OF CONCRETE MIXTURES SHALL BE IN ACCORDANCE WITH ACI 318-14, SECTION 26.4.3. DOCUMENTATION OF CONCRETE MIXTURE CHARACTERISTICS SHALL BE IN ACCORDANCE WITH ACI 318-14, SECTION 26.4.4. CEMENT SHALL BE CERTIFIED PER TITLE 24, PART 2, SECTION 1910A.1. SEE CONCRETE NOTES ON SHEET N1.0 FOR ADDITIONAL REQUIREMENTS.

<sup>(2)</sup> FOUNDATIONS HAVE BEEN DESIGNED FOR THE WORST CASE MINIMUM 28-DAY CONCRETE STRENGTH OF 3,500 PSI.

**EXPOSURE CATEGORY: FREEZING & THAWING (F)**  
(ACI 318-14, SECTION 19.3)

EXPOSURE CLASS <sup>(1)</sup>	CONDITION	MAXIMUM W/C RATIO	MINIMUM 28-DAY STRENGTH (F <sub>c</sub> ) (PSI)		AIR CONTENT	
			FOUNDATIONS	FOUNDATION VENTS & ACCESS WELLS	MAX AGGREGATE SIZE (IN) <sup>(2)</sup>	TARGET AIR CONTENT (%)
<input checked="" type="checkbox"/> F0	CONCRETE NOT EXPOSED TO FREEZING-AND-THAWING CYCLES	0.55	3500	3000	N/A	
<input type="checkbox"/> F1	CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES WITH LIMITED EXPOSURE TO WATER	0.55	3500	3500	3/8 1/2 1 1 1/2	6 5.5 5 4.5
<input type="checkbox"/> F2	CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES WITH FREQUENT EXPOSURE TO WATER	0.45	4500	4500	3/8 1/2	7.5 7
<input type="checkbox"/> F3	CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES WITH FREQUENT EXPOSURE TO WATER AND EXPOSURE TO DEICING CHEMICALS	0.40	5000	5000	3/4 1 1 1/2	6 6 5.5

<sup>(1)</sup> IF EXPOSURE CLASS IS UNCERTAIN, F2 MAY BE ASSUMED.  
<sup>(2)</sup> SEE CONCRETE NOTES ON SHEET N1.0 FOR MAX AGGREGATE SIZES.

**EXPOSURE CATEGORY: SULFATE (S)**  
(ACI 318-14, SECTION 19.3)

EXPOSURE CLASS <sup>(1)</sup>	CONDITION		MAXIMUM W/C RATIO	MINIMUM 28-DAY STRENGTH (F <sub>c</sub> ) (PSI)		CEMENTITIOUS MATERIALS (CEMENT TYPE PER ASTM C150)
	WATER-SOLUBLE SULFATE (SO <sub>4</sub> <sup>2-</sup> ) IN SOIL, PERCENT BY MASS <sup>(2)</sup>	DISSOLVED SULFATE (SO <sub>4</sub> <sup>2-</sup> ) IN WATER, PPM <sup>(3)</sup>		FOUNDATIONS	FOUNDATION VENTS & ACCESS WELLS	
<input type="checkbox"/> S0	SO <sub>4</sub> <sup>2-</sup> < 0.10	SO <sub>4</sub> <sup>2-</sup> < 150	0.55	3500	3000	I OR II
<input type="checkbox"/> S1	0.10 ≤ SO <sub>4</sub> <sup>2-</sup> < 0.20	150 ≤ SO <sub>4</sub> <sup>2-</sup> < 1500 OR SEAWATER	0.50	4000	4000	II
<input checked="" type="checkbox"/> S2	0.20 ≤ SO <sub>4</sub> <sup>2-</sup> ≤ 2.00	1500 ≤ SO <sub>4</sub> <sup>2-</sup> ≤ 10,000	0.45	4500	4500	V
<input type="checkbox"/> S3	SO <sub>4</sub> <sup>2-</sup> > 2.00	SO <sub>4</sub> <sup>2-</sup> > 10,000	0.45	4500	4500	V PLUS FLYASH OR SLAG CEMENT <sup>(4)</sup>

<sup>(1)</sup> IF EXPOSURE CLASS IS UNKNOWN, S2 MAY BE ASSUMED.  
<sup>(2)</sup> PERCENT SULFATE BY MASS IN SOIL SHALL BE DETERMINED BY ASTM C1580.  
<sup>(3)</sup> CONCENTRATION OF DISSOLVED SULFATES IN WATER, IN PPM, SHALL BE DETERMINED BY ASTM D516 OR ASTM D4130.  
<sup>(4)</sup> PER ACI 318-14, TABLE 19.3.2.1, FOOTNOTE 6, THE AMOUNT OF THE SPECIFIC SOURCE OF THE POZZOLAN OR SLAG CEMENT TO BE USED SHALL BE AT LEAST THE AMOUNT THAT HAS BEEN DETERMINED BY SERVICE RECORD TO IMPROVE SULFATE RESISTANCE WHEN USED IN CONCRETE CONTAINING TYPE V CEMENT. ALTERNATIVELY, THE AMOUNT OF THE SPECIFIC SOURCE OF THE POZZOLAN OR SLAG CEMENT TO BE USED SHALL BE AT LEAST THE AMOUNT TESTED IN ACCORDANCE WITH ASTM C1012 AND MEETING THE CRITERIA IN ACI 318-14, SECTION 26.4.2.2(c). SEE CONCRETE NOTES ON SHEET N1.0 FOR ADDITIONAL REQUIREMENTS.

**EXPOSURE CATEGORY: IN CONTACT WITH WATER (W)**  
(ACI 318-14, SECTION 19.3)

EXPOSURE CLASS	CONDITION	MAXIMUM W/C RATIO	MINIMUM 28-DAY STRENGTH (F <sub>c</sub> ) (PSI)		ADDITIONAL REQUIREMENTS
			FOUNDATIONS	FOUNDATION VENTS & ACCESS WELLS	
<input checked="" type="checkbox"/> W0	CONCRETE DRY IN SERVICE OR CONCRETE IN CONTACT WITH WATER AND LOW PERMEABILITY IS NOT REQUIRED	0.55	3500	3000	NONE
<input type="checkbox"/> W1 <sup>(1)</sup>	CONCRETE IN CONTACT WITH WATER AND LOW PERMEABILITY IS REQUIRED	0.50	4000	4000	NONE

<sup>(1)</sup> EXPOSURE CLASS W1 IS ONLY REQUIRED IF CONCRETE IS BELOW THE GROUNDWATER TABLE.

**EXPOSURE CATEGORY: CORROSION PROTECTION OF REINFORCEMENT (C)**  
(ACI 318-14, SECTION 19.3)

EXPOSURE CLASS	CONDITION	MAXIMUM W/C RATIO	MINIMUM 28-DAY STRENGTH (F <sub>c</sub> ) (PSI)		MAXIMUM WATER-SOLUBLE CHLORIDE ION (Cl <sup>-</sup> ) CONTENT IN CONCRETE, PERCENT BY WEIGHT OF CEMENT
			FOUNDATIONS	FOUNDATION VENTS & ACCESS WELLS	
<input checked="" type="checkbox"/> C1	CONCRETE EXPOSED TO MOISTURE BUT NOT TO AN EXTERNAL SOURCE OF CHLORIDES	0.55	3500	3000	0.30
<input type="checkbox"/> C2	CONCRETE EXPOSED TO MOISTURE AND AN EXTERNAL SOURCE OF CHLORIDES FROM DEICING CHEMICALS, SALT, BRACKISH WATER, SEAWATER, OR SPRAY FROM THESE SOURCES	0.40	5000	5000	0.15

- SHEET NOTES:**
- THE DEFAULT CONCRETE MIX DESIGN REQUIREMENTS MAY BE SELECTED AND USED TO DETERMINE THE CONCRETE MIX REQUIREMENTS FOR ANY SITE PER DSA IR PC-2 SECTION 4.5.1 OR PC-6 SECTION 4.4.1.
  - THE DEFAULT CONCRETE MIX DESIGN REQUIREMENTS MAY BE SELECTED REGARDLESS OF WHETHER A SITE SPECIFIC GEOTECHNICAL REPORT EXISTS FOR THE SITE.
  - IF THE SITE CONDITIONS FOR THE SOIL ARE KNOWN AS REPORTED BY A GEOTECHNICAL OR OTHER APPROVED SOIL CONDITIONS REPORT, THE OPTIONAL SITE-SPECIFIC CONCRETE MIX DESIGN REQUIREMENTS MAY BE UTILIZED.
  - IF THE OPTIONAL SITE-SPECIFIC CONCRETE MIX DESIGN REQUIREMENTS ARE UTILIZED, THE REPORT MUST BE REFERENCED ON THE COVER SHEET OF THIS DRAWING PACKAGE.

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DIV. OF THE STATE ARCHITECT  
APP: 02-120119 INC:  
REVIEWED FOR  
SS  FLS  ACS   
DATE: 08/23/2022



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24' x 40' THRU 120' x 40'  
(LOW SEISMIC)  
**GEN7**  
by AMS

SITE SPECIFIC PROJECT NAME  
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APP: 02-118326-PC  
REVIEWED FOR  
SS  FLS  ACS  CG   
DATE: 07/22/2021

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DRAWN BY:  
SCALE: AS NOTED  
DATE: MM/DD/YY  
PROJECT NO: XXXX-20

SHEET TITLE:  
**BELOW GRADE CONCRETE MIX DESIGN REQUIREMENTS**

SHEET NUMBER:

**N1.0A**



DOORS					FRAMES					REMARKS
DOOR NO.	DOOR TYPE	DOOR SIZE	QUANTITY	MATERIAL	FINISH	HARDWARE SET NO.	FRAME TYPE	MATERIAL	FINISH	
E1	D1	3'-0" x 8'-0"	1	HM	PT	B	F1	AL	CLR	HARDWARE LOCKABLE FROM THE INSIDE, SEE DOOR NOTE #3
E2	D1	3'-0" x 8'-0"	2	HM	PT	B	F2	AL	CLR	HARDWARE LOCKABLE FROM THE INSIDE, SEE DOOR NOTE #3
E3	D5	3'-6" x 7'-0"	1	HM	PT	A	F5	STL	PT	
E4	D4	3'-0" x 7'-0"	1	HM	PT	A	F3	STL	PT	
E5	D2	3'-0" x 7'-0"	3	HM	PT	B	F4	AL	CLR	HARDWARE LOCKABLE FROM THE INSIDE, SEE DOOR NOTE #3
I1	D3	3'-0" x 7'-0"	3	SC	CLR	E	F3	STL	PT	
I2	D3	3'-0" x 7'-0"	2	SC	CLR	C	F3	STL	PT	
I3	D3	3'-0" x 7'-0"	3	SC	CLR	F	F3	STL	PT	
I4	D4	3'-0" x 7'-0"	1	SC	CLR	F	F3	STL	PT	
I5	D4	3'-0" x 7'-0"	1	SC	CLR	D	F3	STL	PT	
I6	D6	3'-0" x 4'-0"	5	SC	CLR	C	F6	STL	PT	

**DOOR ABBREVIATIONS**  
HM - HOLLOW METAL  
AL - ALUMINUM  
S - STEEL  
SST - STAINLESS STEEL  
STL - STEEL FRAME, 16ga. FULLY WELDED  
WWF - WINDOW WALL FRAME

**DOOR NOTES**  
1. DOORS SHALL COMPLY WITH C.B.C. SECTION 1010.  
2. CLASSROOMS > 981 S.F WILL REQUIRE PANIC HARDWARE THAT COMPLIES WITH C.B.C. SECTION 1010.1.10.  
3. PER C.B.C. 1010.1.11: PROVIDE LOCKS THAT ALLOW DOORS TO CLASSROOMS AND ANY ROOM WITH AN OCCUPANCY OF FIVE OR MORE PERSONS TO BE LOCKED FROM THE INSIDE. LOCKS SHALL COMPLY WITH C.B.C. SECTION 1010.1.9.

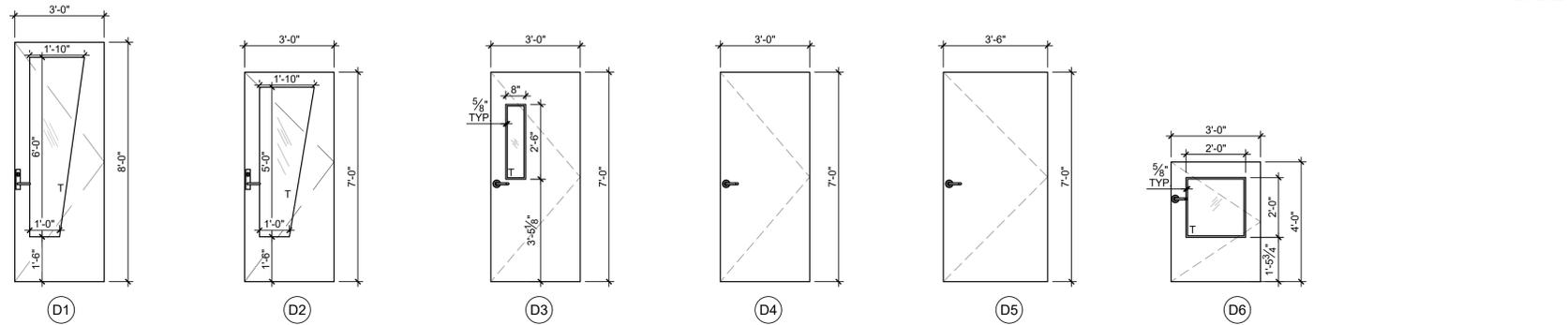
SC - SOLID CORE WOOD  
HC - HOLLOW CORE WOOD  
PT - PAINTED  
CA - CLEAR ANODIZED  
BR - CLEAR ANODIZED  
CLR - CLEAR FINISH

WINDOW TYPE	QTY.	FUNCTION	"W" WIDTH	"H" HEIGHT	FINISH	GLASS TYPE	U FACTOR	SHGC	VT MIN	MIN STC RATING	REMARKS
A	6	FIXED	8'-0"	9'-0"	CLEAR ANODIZED	ATLANTICA 6	0.780	0.430	0.37	27	INOPERABLE
B	4	FIXED	8'-0"	4'-10"	CLEAR ANODIZED	ATLANTICA 6	0.780	0.430	0.37	27	INOPERABLE
C	4	FIXED	4'-0"	4'-0"	CLEAR ANODIZED	CLEAR 6	0.780	0.430	0.37	27	INOPERABLE
C	1	FIXED	8'-0"	7'-4"	CLEAR ANODIZED	ATLANTICA 6	0.780	0.430	0.37	27	INOPERABLE

- EXTERIOR LITE - 3/16" MINIMUM TEMPERED GLASS, OR LAMINATED AS 1 GLASS OF SOLAR GRAY GLARE REDUCING TYPE WITH A LIGHT TRANSMISSION FACTOR OF 45% MAXIMUM.
- WINDOWS THAT MEETS ALL OF THE FOLLOWING CONDITIONS SPECIFIED IN SECTION 2406.4.3, SHALL BE CONSIDERED A HAZARDOUS LOCATION:  
A. THE EXPOSED AREA OF AN INDIVIDUAL PANE IS GREATER THAN 8 SQUARE FEET.  
B. THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 18" ABOVE FINISH FLOOR.  
C. THE TOP EDGE OF THE GLAZING IS GREATER THAN 36" ABOVE FINISH FLOOR.  
D. ONE OR MORE WALKING SURFACE(S) ARE WITHIN 36", MEASURED HORIZONTALLY AND IN A STRAIGHT LINE, OF THE PLANE OF THE GLAZING.
- WINDOWS THAT ARE CONSIDERED A HAZARDOUS LOCATION SHALL CONTAIN FULLY TEMPERED SAFETY GLAZING & MEET THE FOLLOWING REQUIREMENTS:  
A. PASS THE IMPACT TEST REQUIREMENTS IN ACCORDANCE WITH "CPSC 16 CFR PART 1201" PER SECTION 2406.2, WITH A TEST CRITERIA OF CATEGORY II, UNLESS OTHERWISE INDICATED IN C.B.C. TABLE 2406.2(1).  
B. IDENTIFICATION OF SAFETY GLAZING PER C.B.C. 2406.3
- ALL WINDOWS SHALL HAVE METAL FRAMES AND BE MANUFACTURED BY OTHERS.
- WINDOWS ARE NOT NFRC RATED (UP TO 1,000 SF. OF GLAZING IF ALLOWED TO USE DEFAULT VALUES FROM TABLE 110.6-A & 110.6-B).
- THE MINIMUM STANDARD GLASS TYPE FOR ALL WINDOWS SHALL SOLAR GREY GLAZING. UPGRADED GLAZING (LOW E, LOW E2, ETC.) MAY BE USED PER SITE SPECIFIC REQUIREMENTS.

**DOOR SCHEDULE**

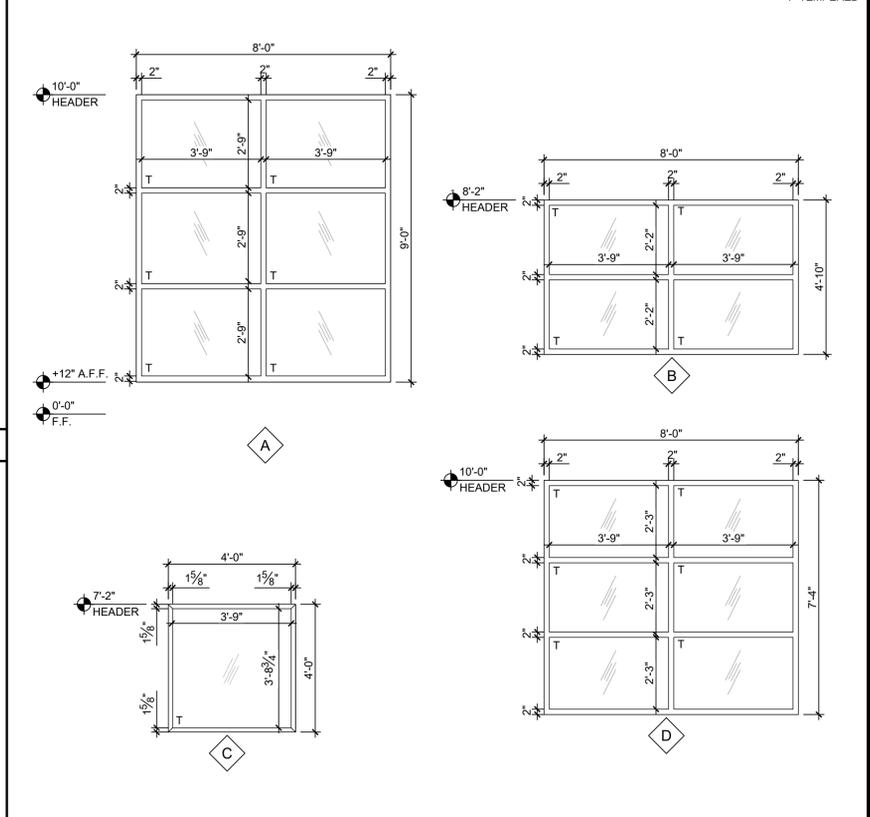
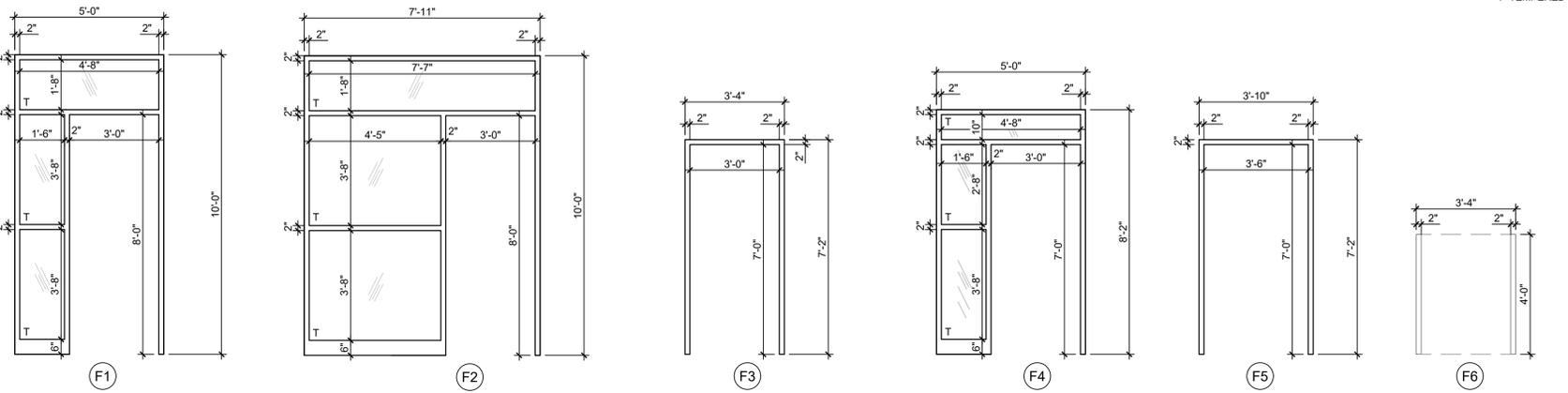
**WINDOW SCHEDULE**



- FINISH INDICATOR OPTIONS**  
A - CARPET; PER STATE OF CALIF SPEC COMPLYING WITH GROUP 1, TYPE A OR TYPE B, CLASS 2, DENSITY 4600.  
B - VINYL SHEET FLOORING; 0.6 MIN. C.D.F. PER ASTM D 2047  
C - VCT; ARMSTRONG, STANDARD, OR EXCELON.  
D - TOP SET BASE; 4"  
E - TOP SET BASE; 6"  
F - WALL FINISH; 1/2" VINYL TACKBOARD CLASS 1 OVER 1/2" GYP BOARD BACKING  
G - 1/2" W.R. GYP BOARD; TAPE, PAINTED FINISH  
H - 1/2" GYP BOARD; TAPE, PAINTED FINISH  
J - 3/32" F.R.P.; OVER 1/2" W.R. GYP BOARD  
K - ACOUSTICAL LAY-IN GRID CEILING PANELS; 2x2' OR 2x4'  
L - 1/2" VINYL TACKBOARD; CLASS 1, OVER 5/8" TYPE "X" GYP BOARD BACKING  
M - 5/8" TYPE "X" GYP BOARD; TAPE, TEXTURE, PAINTED FINISH  
N - CERAMIC TILE - (FULL HEIGHT AT WALLS)  
O - EXPOSED CONCRETE WITH CONCRETE SEALER  
P - CLOUD CEILING PANELS  
Q - PAINTED PLYWOOD OVER 5/8" TYPE "X" GYP. BOARD BACKING  
R - MCT; FORBO OR EQUAL

**DOOR TYPES**

**ROOM FINISHES SCHEDULE**



**DOOR FRAME TYPES**

A	EXTERIOR DOOR LOCKSET w/LEVER RHODES SCHLAGE ND95PD
B	EXTERIOR DOOR PANIC BAR w/PULL ON EXTERIOR VON DUPRIN AX22NL (REQUIRED WHEN OCCUPANT LOAD IS 50 OR MORE)
C	INTERIOR PASSAGE COPPER CREEK 6220-PASSAGE w/ADA LEVER
D	INTERIOR RESTROOM COPPER CREEK 6231-RESTROOM w/ADA LEVER
E	INTERIOR ENTRY/OFFICE COPPER CREEK 6241-ENTRY/OFFICE w/ADA LEVER
F	INTERIOR STOREROOM COPPER CREEK 6250-STOREROOM w/ADA LEVER
G	INTERIOR CLASSROOM COPPER CREEK 6260-CLASSROOM w/ADA LEVER

- DOOR HARDWARE NOTES**  
1. OPERABLE PARTS OF DOOR HARDWARE SHALL BE 34" MINIMUM AND 44" MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.  
2. HANDLES, PULLS, LATCHES, LOCKS AND OTHERS OPERABLE PARTS ON DOORS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 LBS. MAX. (11B-404.2.7, 11B-309.4)  
3. ADDITIONAL DOORS MAY BE REQUIRED BASED ON BUILDING LAYOUT.

- EXTERIOR DOOR HARDWARE**  
1. HINGES: HAGER 4-1/2x4-1/2 BUTTS, BB1279 US26D, 1-1/2 PAIR PER DOOR, WITH SET SCREW IN BARREL AND BALL BEARING DESIGN.  
2. CLOSER: NORTON 8500DA OR 8500BF SERIES, LCN 1460 DEL SERIES, STANLEY D-4560 OR EQUAL. (5 LBS. MAX. PRESSURE)  
3. WEATHERSTRIPPING: ALL EXTERIOR DOORS SHALL BE WEATHERSTRIPPED WITH PEMKO 299D, ULTRA WS007 OR EQUAL, AT DOOR JAMBS AND HEAD.  
4. THRESHOLD: THRESHOLD SHALL BE PEMKO 271 AV 5" ALUMINUM WITH PEMKO 216 AV ULTRA TH042 DOOR BOTTOM.  
5. LOCKDOWN: INTERIOR TEACHERS' MANUAL LOCK FOR CAMPUS LOCK DOWN CRITERIA - REQUIRED FOR STATE-FUNDED SCHOOLS, PER EDUCATION CODE SECTION 17075.50 (AND ALSO CBC 1010.1.11): PROVIDE LOCKS THAT ALLOW DOORS TO CLASSROOMS AND ANY ROOM WITH AN OCCUPANCY OF FIVE OR MORE PERSONS TO BE LOCKED FROM THE INSIDE. LOCKS SHALL COMPLY WITH C.B.C. SECTION 1010.1.9.

**DOOR HARDWARE SCHEDULE**

NOTE: WINDOWS ARE INOPERABLE.

**WINDOW TYPES**

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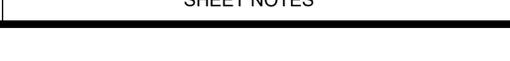
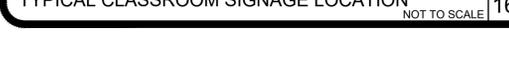
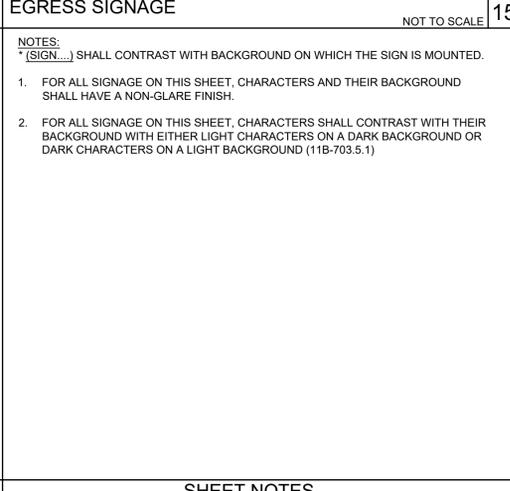
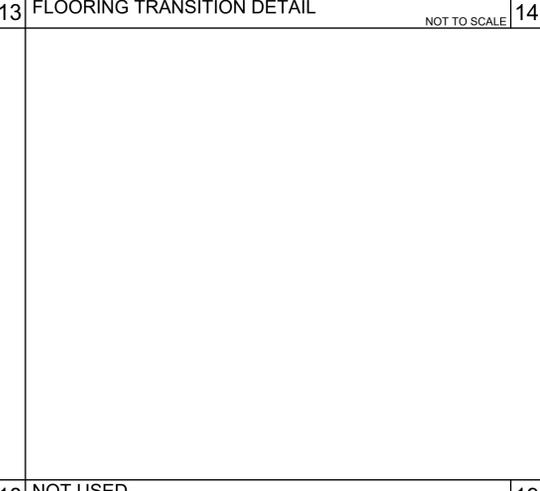
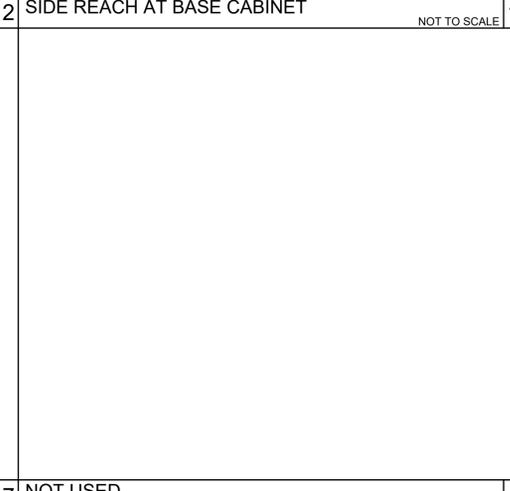
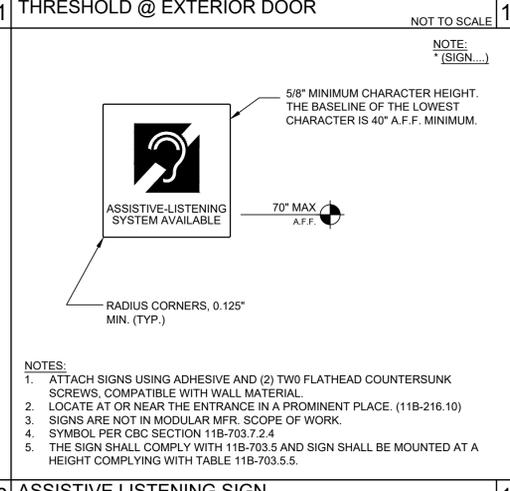
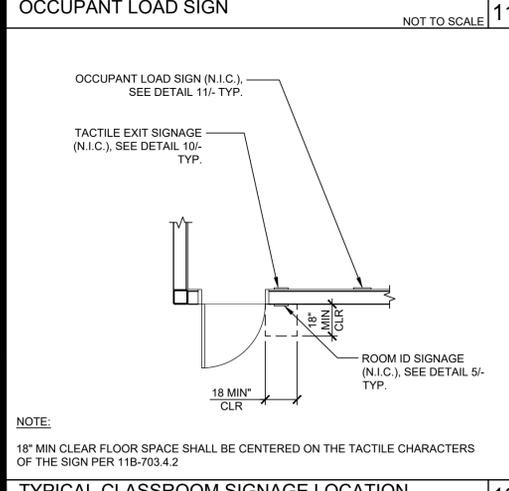
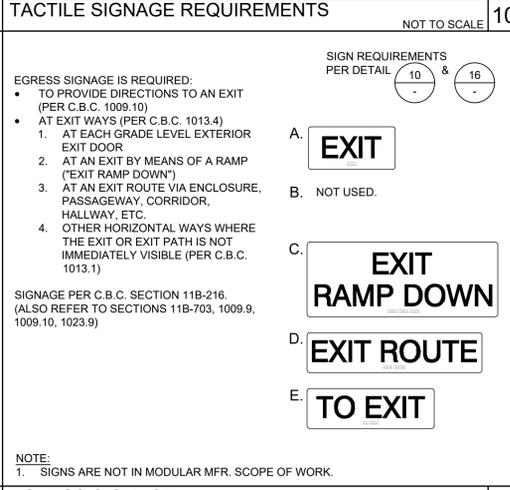
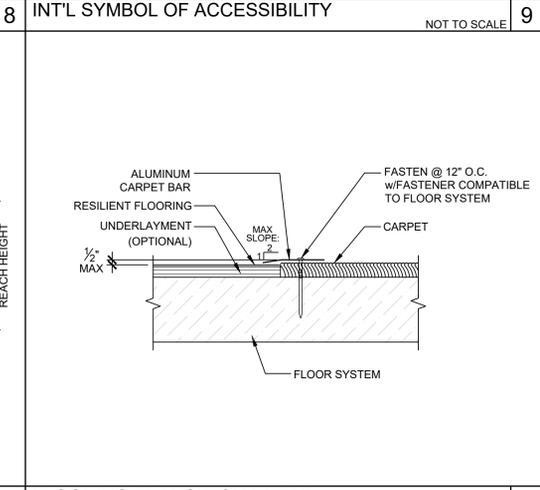
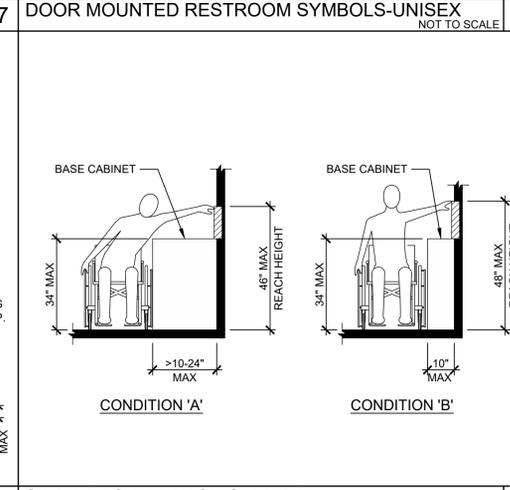
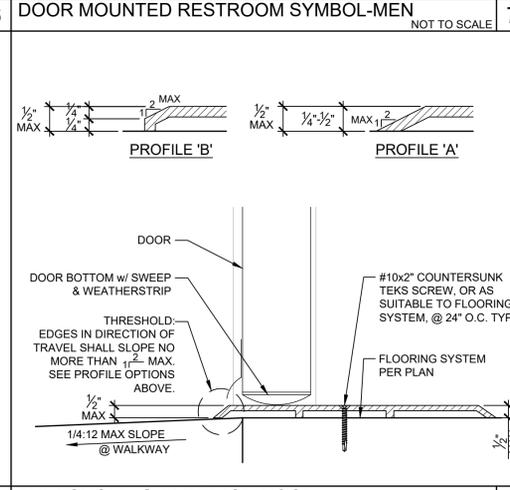
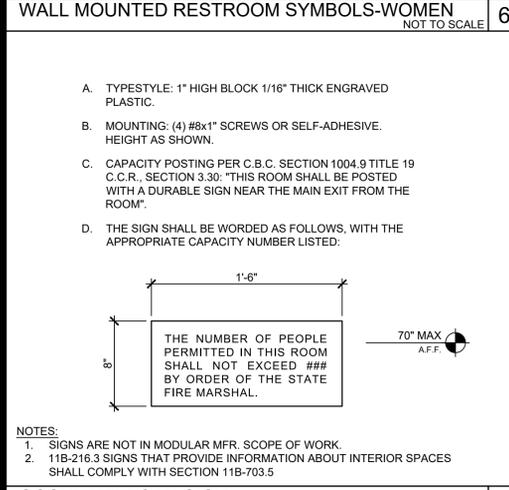
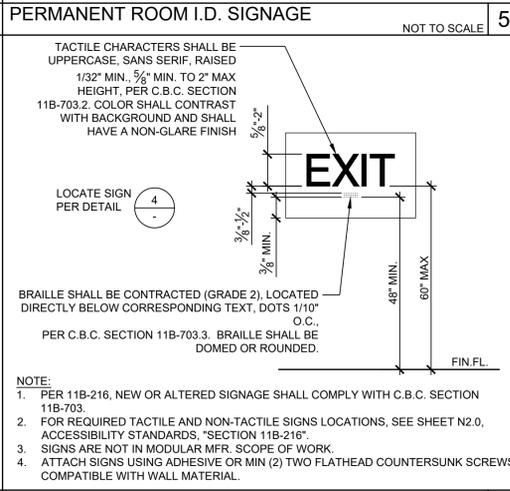
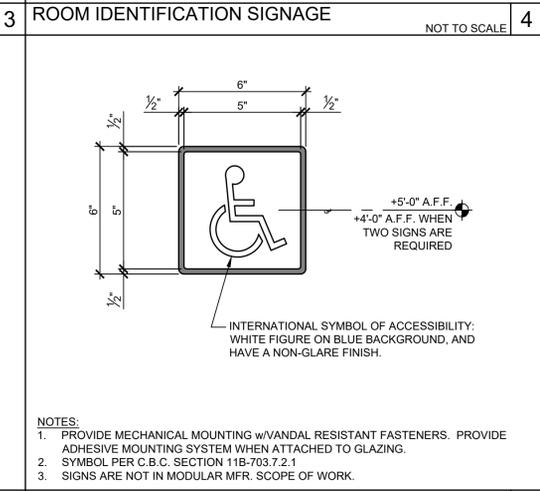
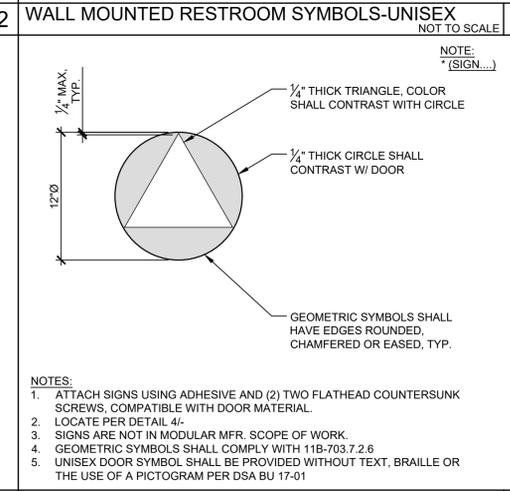
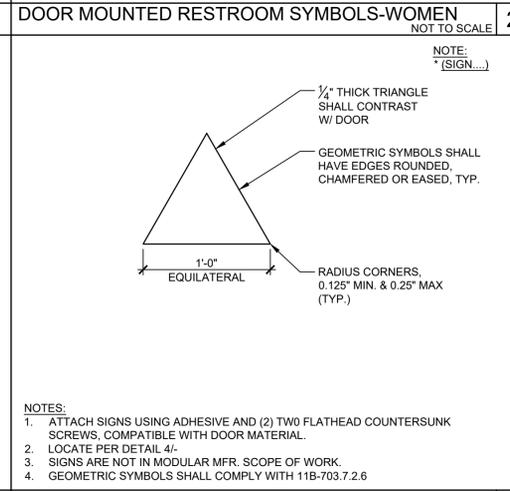
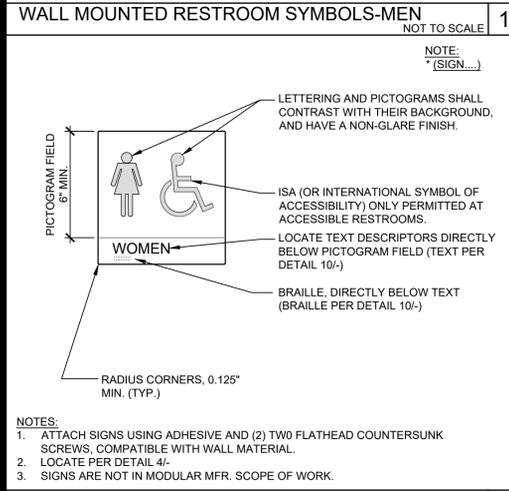
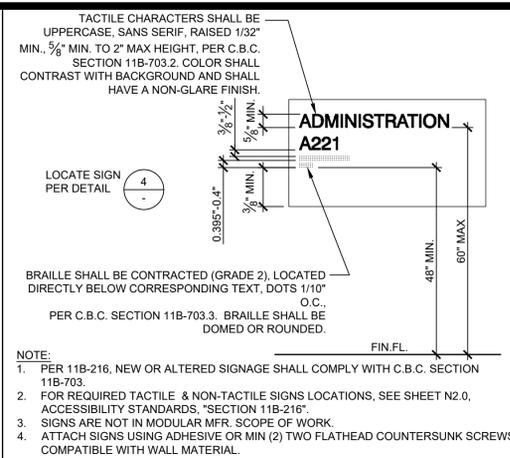
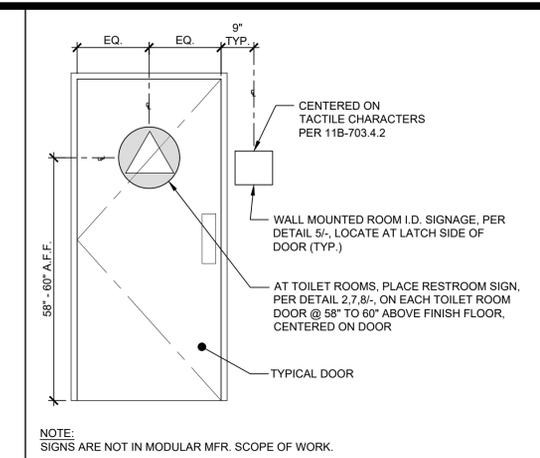
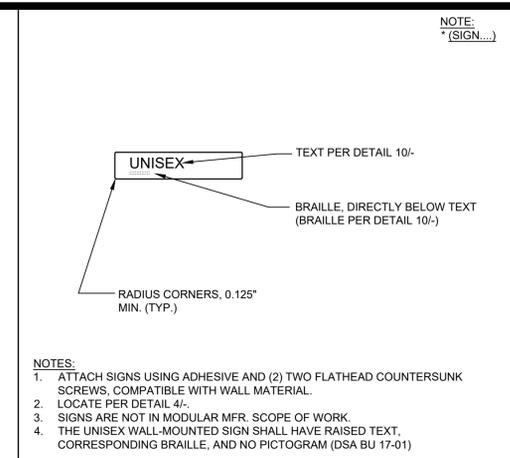
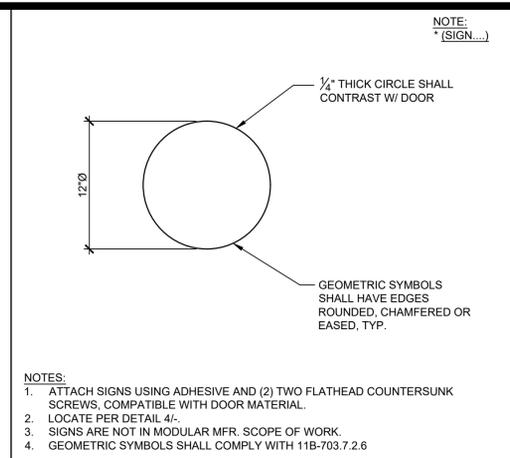
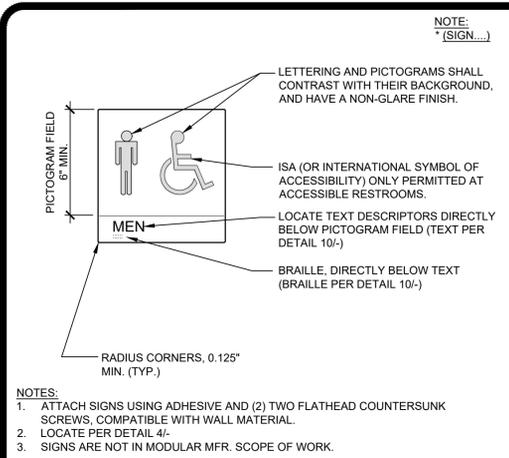
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PRE-CHECKED SET NAME  
**24' x 40' THRU 120' x 40'**  
(Low Seismic)  
**GEN7**  
by AMS  
SITE SPECIFIC PROJECT NAME  
**SOLANO COMMUNITY COLLEGE DISTRICT**  
**CHILD DEVELOPMENT CENTER**  
**(1) 96'x40' BUILDING**

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SCALE: AS NOTED  
DATE: 07/21/22  
PROJECT NO.: 1665-21  
SHEET TITLE:  
**TYPICAL SCHEDULES**  
**DOORS, WINDOWS**  
**& FINISHES**  
SHEET NUMBER:

**N3.0**



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LICENSED ARCHITECT  
PATRICK CARROLL  
No. C12631  
Ren. 2-31-23  
STATE OF CALIFORNIA

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SHEET TITLE:	<b>ACCESSIBILITY STANDARDS AND DETAILS</b>
SHEET NUMBER:	<b>N4.0</b>



Project Name:	Solano Community College Distict Child Development Center	NRCC-PRF-01-E	Page 13 of 18
Project Address:	4000 Solano Valley Rd Fairfield 94534	Calculation Date/Time:	11:38, Mon, Jul 25, 2022
Input File Name:	AMS Solano.cb419		

K3. INDOOR CONDITIONED LIGHTING CONTROL CRITERIA								
Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per §140.6(a)2 and Table 140.6-A)								
1	2	3	4	5	6	7	8	9
Area Description	Primary Function Area (must meet requirements of Table 140.6-A)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Lighting Control (Watts)	Control Credit (Watts)
L01 Staff 105	Office Area (>250 square feet)	NA	0.00 0.00 0.00		2x2	88.0	2	88.0
L01 Staff 110	Commercial/Industrial Storage (Warehouse)	NA	0.00 0.00 0.00		2x2	88.0	2	88.0
L01 Staff 117	Commercial/Industrial Storage (Warehouse)	NA	0.00 0.00 0.00		2x2	44.0	1	44.0

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-12092021-6844 Report Generated at: 2022-07-25 09:39:12

Project Name:	Solano Community College Distict Child Development Center	NRCC-PRF-01-E	Page 14 of 18
Project Address:	4000 Solano Valley Rd Fairfield 94534	Calculation Date/Time:	11:38, Mon, Jul 25, 2022
Input File Name:	AMS Solano.cb419		

K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS									
Building Level Controls					Shut-Off Controls §130.11(c)				
Mandatory Demand Response §130.12(c)									
Area Level Controls (includes all lighting controls installed in conditioned space to meet mandatory requirements per §130.11)									
4	5	6	7	8	9	10			
Area Description	Area Category Primary Function Area	Area Controls §30.1(a)	Multi-Level Controls §30.1(b)	Shut-Off Controls §30.1(c)	Primary Daylighting §30.1(d)	Secondary Daylighting §30.1(e)			
Classrooms	Classroom, Lecture, Training, Vocational Areas	Required	Exempt	Required	Required	Exempt			
Offices & Workroom & Staff	Office Area (<250 square feet)	Required	Exempt	Required	Required	Exempt			
Storage Rooms	Commercial/Industrial Storage (Warehouse)	Required	Exempt	Required	NA	NA			
Restrooms	Restrooms	Required	Exempt	Required	NA	NA			
Laundry	Laundry Area	Required	Exempt	Required	NA	NA			
Hall	Corridor Area	Required	Exempt	Exempt	Required	NA			
Electrical & Fire Riser	Electrical, Mechanical, Telephone Rooms	Required	Exempt	Exempt	NA	NA			

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Project Name:	Solano Community College Distict Child Development Center	NRCC-PRF-01-E	Page 15 of 18
Project Address:	4000 Solano Valley Rd Fairfield 94534	Calculation Date/Time:	11:38, Mon, Jul 25, 2022
Input File Name:	AMS Solano.cb419		

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION	
Building Component	Form/Title
Envelope	NRCA-ENV-01-E - Must be submitted for all buildings
Mechanical	NRCA-MCH-01-E - Must be submitted for all buildings
Plumbing	NRCA-LTO-01-E - Must be submitted for all buildings
Indoor Lighting	NRCA-LTO-02-E - Must be submitted for all buildings
Outdoor Lighting	NRCA-LTO-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS) to be recognized for compliance

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-12092021-6844 Report Generated at: 2022-07-25 09:39:12

Project Name:	Solano Community College Distict Child Development Center	NRCC-PRF-01-E	Page 16 of 18
Project Address:	4000 Solano Valley Rd Fairfield 94534	Calculation Date/Time:	11:38, Mon, Jul 25, 2022
Input File Name:	AMS Solano.cb419		

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE	
Building Component	Form/Title
Envelope	NRCA-ENV-02-A - NRCC Label verification for fenestration
Indoor Lighting	NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls NRCA-LTI-03-A - Automatic Daylight Controls
Mechanical	NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH2-A can be performed in conjunction with MCH-07-A Supply Fan VFD (acceptance if applicable) using testing activities overlap NRCA-MCH-03-A Constant Volume Single Zone HVAC NRCA-MCH-12-A FSD for Packaged Direct Expansion Units NRCA-MCH-18 Energy Management Control Systems NRCA-MCH-19 Occupancy Sensor Controls

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-12092021-6844 Report Generated at: 2022-07-25 09:39:12

Project Name:	Solano Community College Distict Child Development Center	NRCC-PRF-01-E	Page 17 of 18
Project Address:	4000 Solano Valley Rd Fairfield 94534	Calculation Date/Time:	11:38, Mon, Jul 25, 2022
Input File Name:	AMS Solano.cb419		

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION	
Building Component	Form/Title
Mechanical	NRCA-MCH-27 Indoor Air Quality & Mechanical Ventilation NRCA-MCH-32-H Local Mechanical Exhaust

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-12092021-6844 Report Generated at: 2022-07-25 09:39:12

Project Name:	Solano Community College Distict Child Development Center	NRCC-PRF-01-E	Page 18 of 18
Project Address:	4000 Solano Valley Rd Fairfield 94534	Calculation Date/Time:	11:38, Mon, Jul 25, 2022
Input File Name:	AMS Solano.cb419		

O. DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
Documentation Author Name:	Hans Marman LEED AP
Signature:	
Date Signed:	2022-07-20
City/State/Zip:	Walnut CA 91790
Phone:	(619) 579-6374

P. RESPONSIBLE PERSON'S DECLARATION STATEMENT	
Responsible Envelope Designer Name:	Randall P Cavannah
Signature:	
Date Signed:	07/26/22
City/State/Zip:	Maricopa CA 95336
Phone:	209-825-1921
Responsible Lighting Designer Name:	Randall P Cavannah
Signature:	
Date Signed:	07/26/22
City/State/Zip:	Maricopa CA 95336
Phone:	209-825-1921
Responsible Mechanical Designer Name:	American Modular Systems   Gen7 Schools
Signature:	
Date Signed:	07/26/22
City/State/Zip:	Maricopa CA 95336
Phone:	209-825-1923

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-12092021-6844 Report Generated at: 2022-07-25 09:39:12

Project Name:	Solano CCS Child Development Center	Report Page:	Page 1 of 13
Project Address:		Date Prepared:	2022-07-2018:39:37-04:00

A. GENERAL INFORMATION	
01 Project Location (City)	Fairfield
02 Climate Zone	12
03 Outdoor Lighting Zone per Title 24 Part 1 §10.11.6 or as designated by Authority Having Jurisdiction (AHJ)	<input type="checkbox"/> 12-1: Very Low - Undeveloped Parkland <input type="checkbox"/> 12-2: Moderate - Rural Areas <input type="checkbox"/> 12-4: High - Must be reviewed by CA Energy Commission for Approval
04 Total Illuminated Landscape Area (ft <sup>2</sup> )	0
05 <input type="checkbox"/> 12-3: Low - Developed Parkland <input type="checkbox"/> 12-3: Moderately High - Urban Areas	

B. PROJECT SCOPE	
01 New Lighting System	Must Comply with Allowances from §140.2
02 Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)? <input type="radio"/> Yes <input checked="" type="radio"/> No
03 % of Existing Luminaires Being Altered <sup>1</sup>	Sum Total of Luminaires Being Added or Altered
04	Calculation Method
05	

FOOTNOTES: <sup>1</sup>% of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

Registration Number:	Registration Date/Time:	Registration Provider:	Energy Code Ace
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance	Report Version: 2019.1.003 Schema Version: rev 20200601	Report Generated:	2022-07-20 15:39:42

Project Name:	Solano CCS Child Development Center	Report Page:	Page 2 of 7
Project Address:		Date Prepared:	2022-07-2018:39:37-04:00

C. COMPLIANCE RESULTS								
01	02	03	04	05	06	07	08	09
General Hardship Allowance §140.70(1) (See Table N)	Per Application §140.70(2) (See Table N)	Sales Frontage §140.70(2) (See Table N)	Ornamental §140.70(2) (See Table N)	Per Specific Area §140.70(2) (See Table N)	Existing Power Allowance §141.00(3) (See Table N)	Total Allowed (Watts)	Total Actual (Watts)	07 must be >= 08
350	95	---	---	---	---	445	≥	125
Compliance (See Table G for Details)						COMPLIES with Exceptional Conditions		

D. EXCEPTIONAL CONDITIONS	
This table is used to file with available comments because of selections made or data entered in tables throughout the form.	
H. Outdoor Lighting Controls Applicant Notes	Entry Door(s): Ext Lig Fixture @ Each Door   Motion Sensor Exemption   Non-pole mounted luminaires with a maximum rated wattage of 30 watts each

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

Registration Number:	Registration Date/Time:	Registration Provider:	Energy Code Ace
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance	Report Version: 2019.1.003 Schema Version: rev 20200601	Report Generated:	2022-07-20 15:39:42

Project Name:	Solano CCS Child Development Center	Report Page:	Page 3 of 7
Project Address:		Date Prepared:	2022-07-2018:39:37-04:00

O. OUTDOOR LIGHTING FIXTURE SCHEDULE									
01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description	Watts per luminaire <sup>1</sup>	How is Wattage Determined	Total number luminaires <sup>2</sup>	Luminaire Status <sup>3</sup>	Excluded per §140.70(a)	Design Watts	Cutoff Req. ≥ 6,200 initial lumen output §130.2(b) <sup>4</sup>	Field Inspector
Ext Lig Fixture @ Each Door	ARCL LED - 25 Watt	25	Mfc Spec	5	New	0	125	NA < 6,200 lumens	Pass
Total Design Watts:							125		Pass

H. OUTDOOR LIGHTING CONTROLS				
01	02	03	04	05
Area Description	Shut-Off §130.26(1)	Auto-Schedule §130.26(1)	Motion Sensor §130.26(1)	Field Inspector
Entry Door(s)	Ext Lig Fixture @ Each Door	Astronomical Timer	Yes	Exempt*
*Entry Door(s): Ext Lig Fixture @ Each Door   Motion Sensor Exemption   Non-pole mounted luminaires with a maximum rated wattage of 30 watts each				

I. LIGHTING POWER ALLOWANCE (per §140.7)									
01	02	03	04	05	06	07	08	09	10
Area Description	Application per Table 140.7-B <sup>1</sup>	# of Locations	Allowance per Location <sup>2</sup>	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	Additional Allowance (Watts)
Entry Door(s)	Building Entrance/Exit	5	19	95	Ext Lig Fixture @ Each Door	25	15	375	95
Total Design Watts for this Area: 375									
Total Allowance (Watts) All Areas: 95									

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.	

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)	
This section does not apply to this project.	

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601 Report Generated: 2022-07-20 15:39:42

Project Name:	Solano CCS Child Development Center	Report Page:	Page 4 of 7
Project Address:		Date Prepared:	2022-07-2018:39:37-04:00

J. LIGHTING ALLOWANCE: PER APPLICATION									
01	02	03	04	05	06	07	08	09	10
Area Description	Application per Table 140.7-B <sup>1</sup>	# of Locations	Allowance per Location <sup>2</sup>	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	Additional Allowance (Watts)
Entry Door(s)	Building Entrance/Exit	5	19	95	Ext Lig Fixture @ Each Door	25	15	375	95
Total Design Watts for this Area: 375									
Total Allowance (Watts) All Areas: 95									

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.	

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)	
This section does not apply to this project.	

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601 Report Generated: 2022-07-20 15:39:42

Project Name:	Solano CCS Child Development Center	Report Page:	Page 5 of 7
Project Address:		Date Prepared:	2022-07-2018:39:37-04:00

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION	
Building Component	Form/Title
Envelope	NRCA-ENV-01-E - Must be submitted for all buildings
Mechanical	NRCA-MCH-01-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	
Building Component	Form/Title
Envelope	NRCA-ENV-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to existing luminaires.
Indoor Lighting	NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls NRCA-LTI-03-A - Automatic Daylight Controls
Mechanical	NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH2-A can be performed in conjunction with MCH-07-A Supply Fan VFD (acceptance if applicable) using testing activities overlap NRCA-MCH-03-A Constant Volume Single Zone HVAC NRCA-MCH-12-A FSD for Packaged Direct Expansion Units NRCA-MCH-18 Energy Management Control Systems NRCA-MCH-19 Occupancy Sensor Controls

Q. LIGHTING ALLOWANCE: SALES FRONTAGE	
This section does not apply to this project.	

R. LIGHTING ALLOWANCE: ORNAMENTAL	
This section does not apply to this project.	

S. LIGHTING ALLOWANCE: PER SPECIFIC AREA	
This section does not apply to this project.	

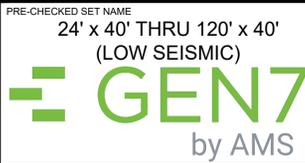
T. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)	
This section does not apply to this project.	

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601 Report Generated: 2022-07-20 15:39:42

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-120119 INC:  
REVIEWED FOR  
SS  FLS  ACS   
DATE: 08/23/2022



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PRE-CHECKED SET NAME  
24' x 40' THRU 120' x 40'  
(LOW SEISMIC)  
SITE SPECIFIC PROJECT NAME  
SOLANO COMMUNITY COLLEGE DISTRICT  
CHILD DEVELOPMENT CENTER  
(1) 96'x40' BUILDING

2019 CBC PRE-CHECK (PC) DOCUMENT  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.  
MANUFACTURER PROFESSIONAL OF RECORD ON PC



THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS	
1	
2	
3	
4	

DRAWN BY: KA  
SCALE: AS NOTED  
DATE: 07/21/22  
PROJECT NO: 1665-21  
SHEET TITLE:  
ENERGY CALCUL

STATE OF CALIFORNIA  
**Outdoor Lighting**  
 NRC-OLA  
 CALIFORNIA ENERGY COMMISSION  
 NRC-OLA  
**CERTIFICATE OF COMPLIANCE**  
 Project Name: Solano CCS Child Development Center | Report Page: (Page 7 of 7)  
 Project Address: 727 Spence Avenue | Date Prepared: 2022-07-20 18:39:37 (04:05)

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**  
 I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Hans Marsman  
 Signature Date: 08/01/2022  
 Address: 727 Spence Avenue, Manteca, CA 95336  
 Phone: (209) 825-1921  
 Digitally signed by Hans Marsman  
 DN: cn=Hans Marsman, o=AMS, ou=AMS, email=hans@ams.com, c=US  
 Date: 2022.07.20 18:44:29 (04:05)

**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 issued for the building, and made available to the enforcement agency at 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: Randall P. Cavanaugh  
 Signature Date: 08/01/2022  
 Address: 727 Spence Avenue, Manteca, CA 95336  
 Phone: (209) 825-1921  
 Digitally signed by Randall P. Cavanaugh  
 DN: cn=Randall P. Cavanaugh, o=AMS, ou=AMS, email=rcavanaugh@ams.com, c=US  
 Date: 2022.07.20 18:44:29 (04:05)

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance  
 Registration Date/Time: Report Version: 2019.1.003  
 Registration Provider: Energy Code Ace  
 Report Generated: 2022-07-20 15:39:42

STATE OF CALIFORNIA  
**Solar Ready Areas**  
 NRC-SRA-E  
 CALIFORNIA ENERGY COMMISSION  
 NRC-SRA-E  
**CERTIFICATE OF COMPLIANCE**  
 Project Name: Solano CCS Child Development Center | Report Page: (Page 4 of 5)  
 Project Address: 727 Spence Avenue | Date Prepared: 2022-07-20 18:42:40 (04:05)

**Interconnection Pathways**  
 Location in construction documents showing the location for inverters and metering equipment and a pathway for the routing of conduit/plumbing to the electrical service/water heating system per §110.10(c).  
 T24-5

**G. PERMANENTLY INSTALLED SOLAR PHOTOVOLTAIC (PV) SYSTEM**  
 This section does not apply to this project.

**H. PERMANENTLY INSTALLED SOLAR HOT WATER SYSTEMS**  
 This section does not apply to this project.

**I. SMART THERMOSTATS AND ALTERNATIVE EFFICIENCY MEASURE**  
 This section does not apply to this project.

**J. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**  
 There are no NRCI forms required for this project.

**K. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**  
 There are no Certificates of Acceptance applicable to solar ready requirements.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance  
 Registration Date/Time: Report Version: 2019.1.003  
 Registration Provider: Energy Code Ace  
 Report Generated: 2022-07-20 15:42:46

STATE OF CALIFORNIA  
**Solar Ready Areas**  
 NRC-SRA-E  
 CALIFORNIA ENERGY COMMISSION  
 NRC-SRA-E  
**CERTIFICATE OF COMPLIANCE**  
 Project Name: Solano CCS Child Development Center | Report Page: (Page 1 of 5)  
 Project Address: 727 Spence Avenue | Date Prepared: 2022-07-20 18:42:40 (04:05)

**A. GENERAL INFORMATION**  
 Project Location (city): Fairfield | Building Type: Other nonresidential bldg 3 stories or fewer  
 Climate Zone: L2 | Construction Type: New Construction  
 Roof is designed for vehicle traffic, parking or for heliport  
 Plan sheet showing roof design for vehicle traffic, parking or heliport exception:

**B. PROJECT SCOPE**  
 The compliance path the project is using to comply per §110.10(b)(1) is indicated below.  
 My project consists of (check one):  
 1. The project has allocated a solar zone on the roof plan per requirements in §110.10(b), as documented in Table F.  
 2. The project includes a permanently installed solar electric system having a nameplate DC power rating, measured under Standard Test Conditions, of no less than one watt per square foot of roof area as documented in Table G.  
 3. The project is a hotel/motel or high-rise multifamily occupancy and includes a permanently installed domestic solar water heating system complying with §110.10(b)(8), and Reference Residential Appendix RA, as documented in Table H.  
 4. The project is a high-rise multifamily occupancy where all thermostats in each dwelling unit comply with §110.10(a) AND at least one additional measure listed in Exception 4 to §110.10(b)(1) is installed, as documented in Table I.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance  
 Registration Date/Time: Report Version: 2019.1.003  
 Registration Provider: Energy Code Ace  
 Report Generated: 2022-07-20 15:42:46

STATE OF CALIFORNIA  
**Solar Ready Areas**  
 NRC-SRA-E  
 CALIFORNIA ENERGY COMMISSION  
 NRC-SRA-E  
**CERTIFICATE OF COMPLIANCE**  
 Project Name: Solano CCS Child Development Center | Report Page: (Page 5 of 5)  
 Project Address: 727 Spence Avenue | Date Prepared: 2022-07-20 18:42:40 (04:05)

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**  
 I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Hans Marsman  
 Signature Date: 08/01/2022  
 Address: 727 Spence Avenue, Manteca, CA 95336  
 Phone: (209) 825-1921  
 Digitally signed by Hans Marsman  
 DN: cn=Hans Marsman, o=AMS, ou=AMS, email=hans@ams.com, c=US  
 Date: 2022.07.20 18:44:29 (04:05)

**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 issued for the building, and made available to the enforcement agency at 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: Randall P. Cavanaugh  
 Signature Date: 08/01/2022  
 Address: 727 Spence Avenue, Manteca, CA 95336  
 Phone: (209) 825-1921  
 Digitally signed by Randall P. Cavanaugh  
 DN: cn=Randall P. Cavanaugh, o=AMS, ou=AMS, email=rcavanaugh@ams.com, c=US  
 Date: 2022.07.20 18:44:29 (04:05)

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance  
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STATE OF CALIFORNIA  
**Solar Ready Areas**  
 NRC-SRA-E  
 CALIFORNIA ENERGY COMMISSION  
 NRC-SRA-E  
**CERTIFICATE OF COMPLIANCE**  
 Project Name: Solano CCS Child Development Center | Report Page: (Page 2 of 5)  
 Project Address: 727 Spence Avenue | Date Prepared: 2022-07-20 18:42:40 (04:05)

**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 "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table G, for guidance or see the applicable Table referenced below.

Allocated Solar Zone		Installed PV System		Installed SWH System		Smart Total and Alternative EE Measure		
01	02	03	04	05	06	07	08	
Required Minimum Area (ft²)	Designated Area (ft²)	Required Minimum DC Power Rating (Watts)	Designed DC Power Rating (Watts)	Required Minimum Solar Savings Fraction	Designed/Rated Solar Savings Fraction	JAS Compliant Thermostat Specified?	Alternative Efficiency Measure	
(See Table F)	(See Table F)	(See Table G)	(See Table G)	(See Table H)	(See Table H)	(See Table I)		
570	570	0	0	0	0		COMPLIES	
T24-5 location within the construction documents showing the location for inverters and metering equipment and a pathway for the routing of conduit/plumbing to the electrical service/water heating system per §110.10(c).								COMPLIES

**D. EXCEPTIONAL CONDITIONS**  
 This table is not filled with creditable 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.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance  
 Registration Date/Time: Report Version: 2019.1.003  
 Registration Provider: Energy Code Ace  
 Report Generated: 2022-07-20 15:42:46

STATE OF CALIFORNIA  
**Solar Ready Areas**  
 NRC-SRA-E  
 CALIFORNIA ENERGY COMMISSION  
 NRC-SRA-E  
**CERTIFICATE OF COMPLIANCE**  
 Project Name: Solano CCS Child Development Center | Report Page: (Page 3 of 5)  
 Project Address: 727 Spence Avenue | Date Prepared: 2022-07-20 18:42:40 (04:05)

**F. ALLOCATED SOLAR ZONE**  
 This table is completed if the project is designating a solar zone to comply with §110.10(b)(1). New construction consider the total roof area. Additions consider newly added roof area. This table demonstrates that the project has designated the minimum area required for the Allocated Solar Zone, and also that the requirements for Solar Zone Subareas have been met. Each subarea must be shown on a roof plan or documented in construction documents. The solar zones must also comply with fire code requirements, including, but not limited to, setback and pathway requirements. Requirements for interconnection pathways must also be included in construction documents, and the location is specified in this table.

Required Minimum Solar Zone		Potential Solar Zone Areas: Roof areas with ≥ 70% Solar Access		Method/ Tools Used to Determine Annual Solar Access for Potential Zones¹		Potential Solar Zone Areas: Roof areas with ≥ 70% Solar Access		Minimum Solar Zone Based on (0.5 x Total Potential Zone)		Required Minimum Solar Zone Area (ft²)	
01	02	03	04	05	06	07	08	09	10	11	12
Minimum Solar Zone Area Calculation Method	Total New or Added Roof Area (ft²)	Total New or Added Roof Area Covered with Skylights (ft²)	Minimum Solar Zone Based on Total or Added Roof Area (ft²)	Method/ Tools Used to Determine Annual Solar Access for Potential Zones¹	Low-Sloped Area (<= 2:12 pitch) (ft²)	Steep-Sloped Area (> 2:12 pitch) (ft²)	Total Potential Solar Zone Area (ft²)	Minimum Solar Zone Based on (0.5 x Total Potential Zone)	Required Minimum Solar Zone Area (ft²)	Subarea Name or Tag	Building Plan Reference
	3800	0	570						570		
Total New or Added Roof Area											
Designated Solar Zone Subareas											
09	10	11	12	13	14	15	16	17	18	19	
Subarea Name or Tag	Building Plan Reference	Roof or Overhang Slope (Low <= 2:12 pitch) (Steep > 2:12 pitch)	Is Steep-Sloped Roof or Overhang between 90 and 300 degrees?	Subarea Complies with Title 24, Part 9	Solar Zone Subarea Free of Obstructions per §110.10(b)(1)	Subarea is Required Distance from Potential Obstructions per §110.10(b)(3)	Is the Smallest Dimension 5 feet or greater?	Min. Area Required per Subarea (ft²)	Designated Area (ft²)	Subarea Complies?	
Solar Area	T24-5	LowSlope		Yes	Yes	Yes	Yes	80	570	COMPLIES	
Total Designated Solar Zone Area (ft²):											570

**G. GENERAL LUMINAIRE REQUIREMENTS**  
 ALL LUMINAIRES SHALL BE FACTORY-LABELLED PER 130.0(c).  
 ENERGY MANAGEMENT CONTROL SYSTEMS (EMCS) SHALL MEET REQUIREMENTS OF 130.0(e).

**130.0(c) CONTROLS FOR OUTDOOR LIGHTING**  
 ALL OUTDOOR LIGHTING SHALL BE INDEPENDENTLY CONTROLLED FROM OTHER ELECTRICAL LOADS AND SHALL HAVE THE FOLLOWING FEATURES:  
 1. AUTOMATICALLY TURNS OFF OUTDOOR LIGHTING WHEN DAYLIGHT IS AVAILABLE  
 2. AUTOMATIC SCHEDULING CONTROLS  
 A. CAPABLE OF REDUCING LIGHTING POWER AT LEAST 50% AND NO MORE THAN 80% AND SEPARATELY CAPABLE OF TURNING LIGHTING OFF DURING UNOCCUPIED PERIODS  
 B. THAT ALLOW SCHEDULING OF AT LEAST TWO NIGHTTIME PERIODS WITH INDEPENDENT LIGHTING LEVELS (MAY INCLUDE OVERRIDE FOR NO MORE THAN 2 HOURS)  
 C. ACCEPTANCE TESTS SHALL VERIFY SCHEDULED OCCUPIED AND UNOCCUPIED  
 D. AUTOMATIC SCHEDULING CONTROLS SHALL BE INSTALLED FOR ALL OUTDOOR LIGHTING.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance  
 Registration Date/Time: Report Version: 2019.1.003  
 Registration Provider: Energy Code Ace  
 Report Generated: 2022-07-20 15:42:46



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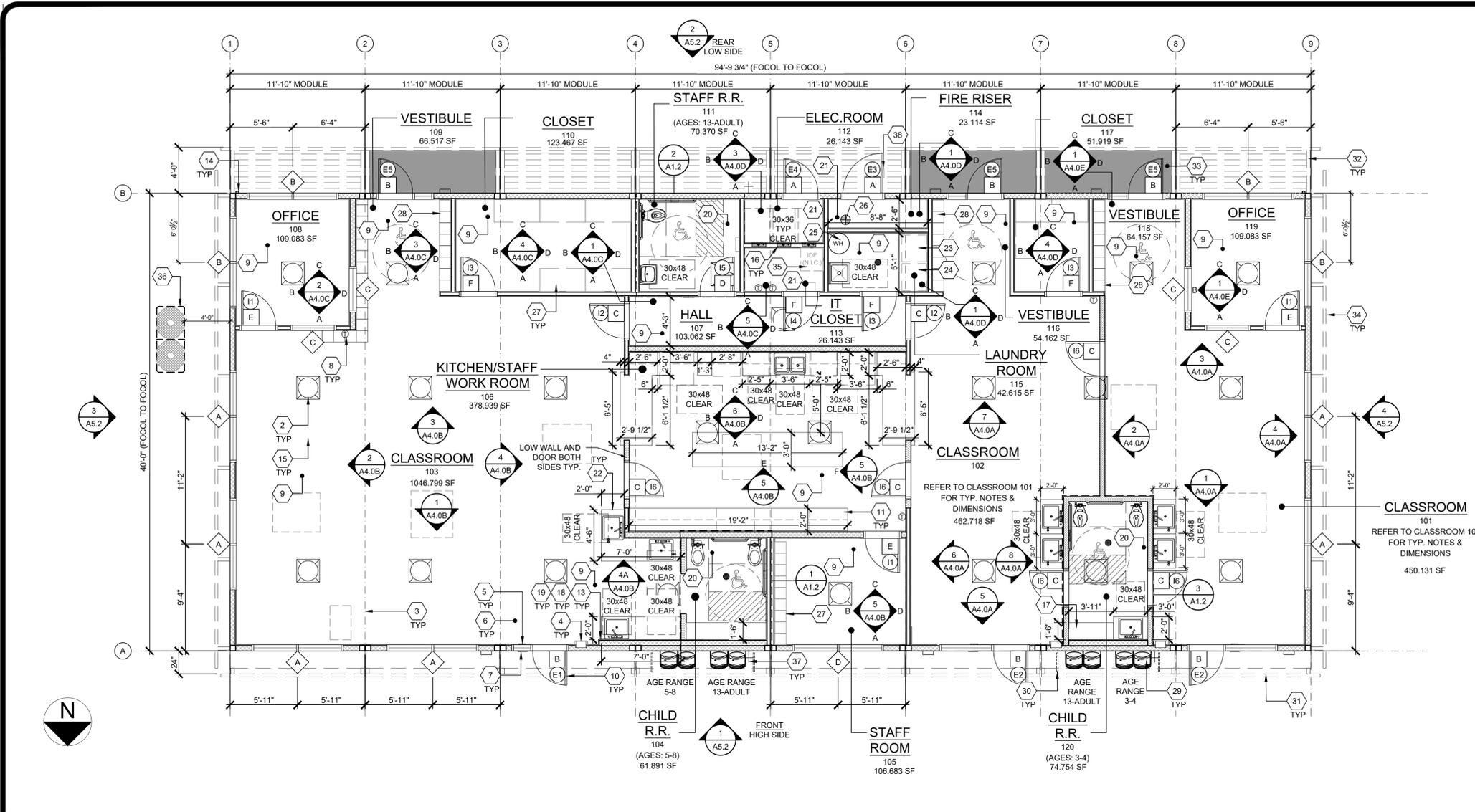
PRE-CHECKED SET NAME  
 24' x 40' THRU 120' x 40' (LOW SEISMIC)  
 SOLANO COMMUNITY COLLEGE DISTRICT  
 CHILD DEVELOPMENT CENTER  
 (1) 96'x40' BUILDING

2019 CBC PRE-CHECK (PC) DOCUMENT  
 A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.  
 MANUFACTURER PROFESSIONAL OF RECORD ON PC  
 LICENSED ARCHITECT  
 PATRICK CAVANAGH  
 No. C12631  
 Ren. 2-31-23  
 STATE OF CALIFORNIA

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 REVISIONS  
 DRAWN BY: KA  
 SCALE: AS NOTED  
 DATE: 07/21/22  
 PROJECT NO: 1665-21  
 SHEET TITLE:  
 ENERGY CALCULATIONS  
 SHEET NUMBER:

EN.3

03/03/2022, 10:44 AM BUILDING\_DESIGN - 2022/07/20 15:42:46 - PC - 118338 - GEN7 - 24' THRU 120' x 40'



- 1 NOT USED
- 2 SOLATUBE ABOVE - SEE SHEET NOTE #11 & SPECIFICATIONS ON 16/-
- 3 TYP. MOD LINE
- 4 FIRE EXTINGUISHER - TOP OF HANDLE @ 48" A.F.F. 4" MAX PROTRUSION FROM WALL IF BOTTOM OF FIRE EXTINGUISHER IS ABOVE 27" A.F.F.
- 5 TACTILE EXIT SIGN PER DETAIL 10/N4.0 (BY OTHERS)
- 6 EGRESS AREA
- 7 ROOM SIGNAGE AND I.S.A. PER DETAILS 58/N4.0 (BY OTHERS)
- 8 THERMOSTAT - TOP OF BOX @ +46" A.F.F. - LOCATION MAY VARY
- 9 MCT FLOOR FINISH
- 10 EGRESS DOOR
- 11 CASEWORK
- 12 NOT USED
- 13 OCCUPANT LOAD SIGN PER DETAIL 11/N4.0 (BY OTHERS)
- 14 DOWNSPOUT - CONNECTED TO SITE DRAINAGE (BY OTHERS) (QUANTITY AND LOCATION MAY VARY)
- 15 HVAC OUTLINE - ATTIC MOUNTED - SEE MECHANICAL
- 16 ELECTRICAL PANEL (LOCATION MAY VARY)
- 17 BABY CHANGING TABLE (BY OTHERS)
- 18 FLOOR LIVE LOAD & SNOW LOAD SIGN PER 2019 CBC SECTION 106.1 (FLOOR LIVE LOAD SIGN IS REQUIRED ONLY FOR COMMERCIAL OR INSTITUTIONAL BUILDINGS DESIGNED WITH LIVE LOADS EXCEEDING 50 PSF) WHERE 150 PSF LIVE LOAD IS SPECIFIED, THE TEXT "LONG TERM STORAGE NOT PERMITTED" SHALL ALSO BE INCLUDED ON THE SIGN
- 19 ASSISTIVE LISTENING (AL) SIGN POSTED IN PROMINENT PLACE AT OR NEAR THE ENTRANCE PER 17/N4.0
- 20 TILE FLOOR FINISH
- 21 CONCRETE FLOOR FINISH
- 22 CASEWORK w/SINK - REFER TO 17/A7.1 FOR ATTACHMENTS
- 23 WASHER (BY OTHERS)
- 24 DRYER (BY OTHERS)
- 25 WATER HEATER - REFER TO P1.0 & P2.0
- 26 FIRE RISER
- 27 FURNITURE (BY OTHERS)
- 28 CUBBIES (BY AMS) - REFER TO A7.1 FOR ATTACHMENTS
- 29 DRINKING FOUNTAIN (BY AMS) - REFER TO P2.0
- 30 GUARD RAILS (BY OTHERS) - REFER TO P2.0
- 31 FRONT ENCLOSED SOFFIT ROOF OVERHANG PER 12/S5.4
- 32 REAR ROOF OVERHANG PER B/S5.2
- 33 DRIP PAN @ REAR ROOF OVERHANG PER 6/S5.5
- 34 SIDE OVERHANG PER S4.0
- 35 IDF
- 36 CONDENSER - GROUND MOUNT BY OTHERS
- 37 HOSE BIBB
- 38 FIRE RISER SIGNAGE (BY OTHERS)

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APP: 02-120119 INC:  
REVIEWED FOR

SS  FLS  ACS

DATE: 08/23/2022

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**AMS**  
American Modular Systems

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PRE-CHECKED SET NAME  
**24' x 40' THRU 120' x 40'**  
(LOW SEISMIC)

**GEN7**  
by AMS

---

SITE SPECIFIC PROJECT NAME  
**SOLANO COMMUNITY COLLEGE DISTRICT  
CHILD DEVELOPMENT CENTER  
(1) 96'x40' BUILDING**

---

2019 CBC PRE-CHECK (PC) DOCUMENT  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

**FLOOR PLAN**

BUILDING SIZE SCHEDULE			
BUILDING SIZE (FT)	TOTAL # OF 12'-0" WIDE MODULES	TOTAL # OF CENTER MODULES	OVERALL BUILDING WIDTH
24'x40'	2	0	23'-8 1/2"
36'x40'	3	1	35'-6 1/4"
48'x40'	4	2	47'-5"
60'x40'	5	3	59'-3 1/4"
72'x40'	6	4	71'-1 1/2"
84'x40'	7	5	82'-11 1/4"
96'x40'	8	6	94'-10"
108'x40'	9	7	106'-8 1/4"
120'x40'	10	8	118'-6 1/2"

NOTES:  
1. TOTAL BUILDING WIDTH INCLUDES 1/4" PER MODULAR CONSTRUCTION TOLERANCE PER FOUNDATION SHEET S1.1.

- SCALE: 1/4" = 1'-0" A
- NOT USED
  - OPTIONAL INTERIOR WALLS MAY OCCUR THROUGHOUT THE BUILDING AS CONSTRUCTED PER SHEET S8.1. THE PC TITLE 24 HAS BEEN RUN FOR THE WORST CASE ENVELOPE BASED ON AREA.
  - PANIC HARDWARE COMPLYING WITH C.B.C. 1010.1.10 IS REQUIRED TO BE INSTALLED WHEN THE CONFIGURATION OF ANY ROOM PROVIDES AN OCCUPANT LOAD OF 50 OR GREATER.
  - IF OCCUPANCY LOAD EXCEEDS 50, PROVIDE A SECOND EXIT DOOR, PER CBC TABLE 1006.2.1.
  - FOR ROOMS OR SPACES CLASSIFIED AS AN ASSEMBLY OCCUPANCY, PROVIDE AN OCCUPANT LOAD SIGN (BY OTHERS) IN A CONSPICUOUS PLACE, NEAR THE MAIN EXIT, PER C.B.C. SECTION 1004.9.
  - ALL PRIMARY EXTERIOR DOOR ENTRIES SHALL BE COVERED TO PREVENT WATER INTRUSION BY USING NONABSORBENT FLOOR AND WALL FINISHES WITHIN AT LEAST 2 FEET AROUND AND PERPENDICULAR TO OPENING, PER CALGREEN, SECTION 5.407.2.1.
  - PRIMARY EXTERIOR DOOR ENTRIES SHALL HAVE AT LEAST ONE OF THE FOLLOWING:
    - INSTALLED AWNING AT LEAST 4 FEET IN DEPTH (BY OTHERS).
    - OPTIONAL SIDE WALL CANOPY (4 FEET IN DEPTH) PER SHEET S5.4A.
    - ROOF OVERHANG AT LEAST 4 FEET IN DEPTH.
    - DOOR RECESSED AT LEAST 4 FEET.
    - OTHER METHODS WHICH PROVIDE EQUIVALENT PROTECTION (BY OTHERS).
  - WINDOW PLACEMENT & SIZE MAY VARY AS THE PC TITLE 24 HAS BEEN RUN FOR THE WORST CASE ENVELOPE PROVIDED THAT THE MAXIMUM WINDOW AREA IS 160 FOR DOUBLE-WIDE ROOM AND 200 SQ. FT. FOR A TRIPLE WIDE ROOM. JUSTIFICATION OF LARGER AREAS MAY BE BASED ON RATIO AND INTERPOLATION.
  - AS AN OPTION, NANAWALLS, AS DEFINED ON SHEET N3.0, MAY BE UTILIZED ON THE FRONT AND REAR EXTERIOR WALLS AS LONG AS THE REQUIREMENT FOR MAXIMUM WINDOW AREA ARE DESCRIBED IN SHEET N# IS MET. NANAWALLS MAY NOT BE USED ON BUILDING SIDEWALLS. INTERIOR NANAWALLS SHALL NOT HAVE AN AREA LIMIT. NANAWALLS SHALL BE FRAMED AND SUPPORTED PER SHEET S8.1A & S9.1A.
  - AUTOMATIC DAYLIGHT CONTROLS AS PRESCRIBED ON THIS PLAN ARE ONLY REQUIRED WHEN THE SOLATUBE OPTION IS UTILIZED. REFER TO ENERGY NOTE #2 OF THIS SHEET FOR FURTHER ASSISTANCE.
  - SOLATUBE LOCATIONS SHOWN ON PLAN ARE GENERIC AND ACTUAL LOCATIONS MAY VARY - (4) MAX. PER MOD. FRAMING FOR SOLATUBES SHALL BE PER S4.0 INSTALLATION SHALL BE PER DETAILS 1 OR 15/M1.6. PC TITLE 24 RUNS FOR SOLAR TUBE(S) ASSUME WORSE CASE LAYOUT.
  - WHEN SOLATUBES ARE UTILIZED ABOVE A CLASSROOM, THE ENTIRE CLASSROOM SHALL BE CONSIDERED AS A "DAYLIT" ZONE.

**KEYNOTES**

(X) # = MECHANICAL OR PLUMBING FIXTURE - SEE MECHANICAL OR PLUMBING DRAWINGS  
 (X) = KEY NOTE - SEE KEY NOTES ABOVE  
 (X) = DOOR TYPE - SEE SCHEDULE, SHEET N3.0  
 (X) = DOOR HARDWARE - SEE HARDWARE SCHEDULE, SHEET N3.0  
 (X) = WINDOW TYPE - SEE SCHEDULE, SHEET N3.0

**SYMBOLS LEGEND**

2X4 WALL = NO HATCHING  
 2X6 WALL = ANS137 (253)  
 LOW WALL = 48" HIGH PARTIAL HEIGHT WALL

**BUILDING SIZE SCHEDULE**

SOLATUBE SPECIFICATIONS - SOLATUBE DAYLIGHT SYSTEM 330DS - TUBULAR DAYLIGHTING DEVICE - OR EQUAL SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND DETAILS SHOWN ON THESE DRAWINGS.

SMOKE DENSITY:  
RATING NO GREATER THAN 450 PER ASTM E 84 IN WAY INTENDED FOR USE. CLASSIFICATION C.

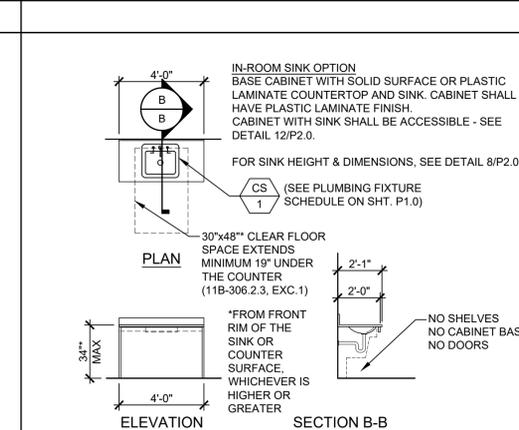
RATE OF BURN AND/OR EXTENT: MAXIMUM BURNING RATE: 2.5 INCHES/MIN (62 MM/MIN) CLASSIFICATION CC-2 PER ASTM D 635.

RATE OF BURN AND/OR EXTENT: MAXIMUM BURN EXTENT: 1 INCH (25 MM) CLASSIFICATION CC-1 PER ASTM D 635.

FM CERTIFICATION:  
SPREAD OF FLAME: PASSES: CLASS A AT 5 IN/2. NO FLAME SPREAD WHEN TESTED IN ACCORDANCE WITH FM MODIFIED VERSION OF ASTM E108 FIRE TEST OF ROOF COVERINGS.

SIMULATED IMPACT:  
PASSES: NO BREAKAGE OR THROUGH OPENINGS WHEN A 100 LB (45.5 KG) WEIGHT DROPPED FROM 4 FT (1.2 M) ABOVE HIGHEST POINT OF TEST SAMPLE.  
SIMULATED WIND UPLIFT: PASSES: 195 PSF WIND RATING. NO SEPARATION, BREAKING.

U FACTOR: 0.780  
SHGC: 0.430  
VT MIN: 0.37  
MIN STC RATING: 27



- SHEET NOTES**
- ENERGY CONTROLS**
- DEMAND RESPONSE CONTROLS: ONLY REQUIRED IN BUILDINGS LARGER THAN 10,000 S.F., THEREFORE, NOT REQUIRED FOR THIS PC.
  - AUTOMATIC DAYLIGHTING CONTROLS: NOT REQUIRED IN ROOMS WHERE COMBINED INSTALLED LIGHTING POWER IN COMBINED SKYLIT & PRIMARY DAYLIT ZONES ARE <120 WATTS. INSTALLED WATTAGE IN PRIMARY SIDELIT DAY LIT ZONE IS 90 WATTS (2x 45w, AS SHOWN ON SHEET E1.0). THEREFORE, AUTOMATIC DAYLIGHTING CONTROLS ARE ONLY REQUIRED WHEN "SOLATUBES" ARE INSTALLED. SEE A1.1
  - ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) CONNECTION: PER TITLE 24 CODE, "AN EMCS MAY BE INSTALLED TO COMPLY WITH THE REQUIREMENTS OF ONE OR MORE LIGHTING CONTROLS IF IT MEETS THE MINIMUM REQUIREMENTS". PC MAY CONTAIN OCCUPANCY SENSORS AND PHOTOCELL CONTROL LIGHTING. IN THAT CASE, AN EMCS IS NOT REQUIRED FOR THIS PC.
  - SOLAR-READY ZONE REQUIREMENTS: REQUIREMENTS & TABLE CAN BE FOUND ON SHEET A2.0
- NOTE: ANY MONITORING EQUIPMENT OR ASSOCIATED SENSORS ARE SITE SPECIFIC AND ARE NOT INCLUDED IN THE BASE PC.

- ACOUSTIC CONTROLS**
- WHEN THE PRE-CHECK (PC) BUILDING IS SITE ADAPTED, THE BUILDING AND SITE FEATURES SHALL COMPLY WITH THE CALGREEN CODE, SECTION 5.507.4, FOR THE SPECIFIC SITE LOCATION.
  - MINIMUM WALL ASSEMBLIES: WALL ASSEMBLIES SHALL BE CONSTRUCTED PER DETAIL SHEETS A5.3, A5.5, A5.7, & A8.0, WITH EITHER 2x4 WOOD STUDS OR 6" STEEL STUDS PER LISTED OPTIONS. MINIMUM STC RATINGS LISTED BELOW ARE PER THE CATALOG OF STC & IIC RATINGS FOR WALL AND FLOOR/CEILING ASSEMBLIES, PRODUCED BY THE OFFICE OF NOISE CONTROL, CA DEPARTMENT OF HEALTH SERVICES.
- (1) LAYER 1/2" GYPSUM BOARD SECURED TO MIN. 2x4 STUDS @ 16" O.C. MAX.
- (1) LAYER 1/2" GYPSUM BOARD SECURED TO MIN. 2x4 METAL STUDS @ 16" O.C. MAX.
- STC=28 (CATALOG SECTION 1.2.1.5.4.1)  
TEST REF: NATIONAL RESEARCH COUNCIL OF CANADA - NRC #66
- STC=40 (CATALOG SECTION 1.3.2.5.4.1)  
TEST REF: NATIONAL RESEARCH COUNCIL OF CANADA - NRC #66

- WALL TYPES/LEGEND**
- IN THE EVENT THAT A PC CLASSROOM IS DESIGNED TO CONNECT TO ANOTHER PC CLASSROOM OR RESTROOM, INTERIOR SOUND TRANSMISSION IN THE INTERIOR ADJOINING WALL AND FLOOR/CEILING SHALL MEET THE MINIMUM REQUIREMENT OF A STC OF 40, PER CALGREEN CODE SECTION 507.4.3. (EXAMPLES OF QUALIFYING ASSEMBLIES SHOWN BELOW)
- 
- STC=40  
TEST REF: AUDIO ALLOY L.L.C TEST NUMBER: OL-05-1003
- STC=28  
TEST REF: AUDIO ALLOY L.L.C TEST NUMBER: OL-02-410
- MINIMUM WINDOW & DOOR RATINGS: ALL WINDOWS AND DOORS SPECIFIED ON THE SCHEDULES FOUND ON SHEET N3.0 OF THIS PACKAGE SHALL MEET A MINIMUM STC RATING OF 27.

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REVISIONS

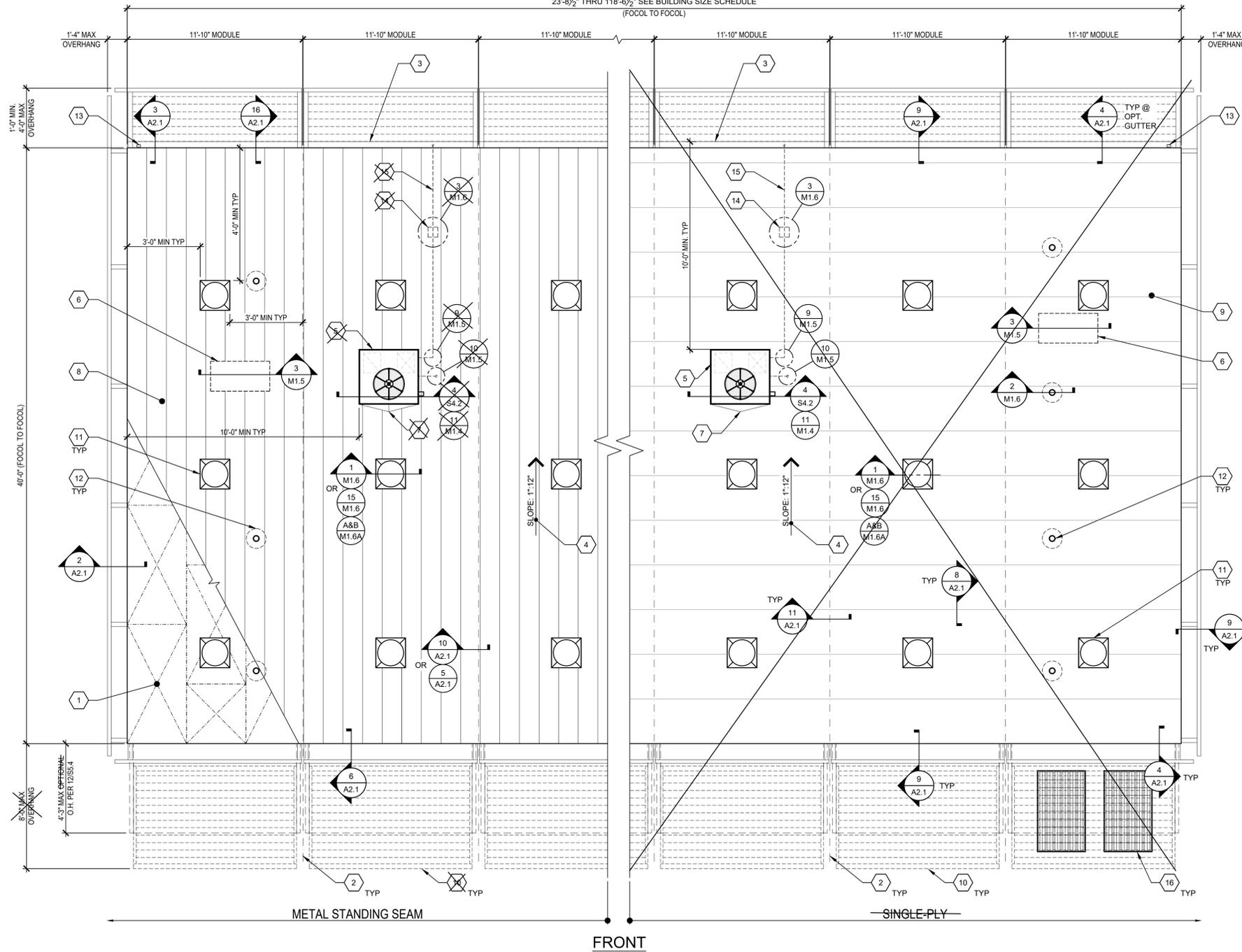
DRAWN BY: KA  
SCALE: AS NOTED  
DATE: 07/28/22  
PROJECT NO: 1665-21  
SHEET TITLE: TYPICAL FLOOR PLAN w/ SOLATUBE OPTION  
SHEET NUMBER:

A1.1



REAR

23'-8 1/2" THRU 118'-6 1/2" SEE BUILDING SIZE SCHEDULE (FOCOL TO FOCOL)



- 1 ROOF SHEATHING BRACING PER SHEET S4.0
- 2 TYPICAL MOD LINE
- 3 OPTIONAL GUTTER PER DETAIL 3 OR 4/A2.1
- 4 TYPICAL ROOF SLOPE
- 5 OPTIONAL ROOF MOUNTED HVAC PER M1.7
- 6 OPTIONAL ATTIC MOUNTED SPLIT-SYSTEM HVAC PER M1.7
- 7 CRICKET @ OPTIONAL HVAC PER 14 OR 15/A2.1
- 8 STANDING SEAM METAL ROOF PER 7/SO.0 & DETAILS ON SHEET A2.1
- 9 SINGLE-PLY OR BUILT-UP ROOFING PER SHEET A2.1
- 10 OPTIONAL SUN-SHADE OVERHANG - SEE SHEET A/S5.2
- 11 OPTIONAL SOLATUBE - SEE SHEET NOTE #1
- 12 PIPE VENT PER PLUMBING PLANS & 2/M1.4
- 13 OPTIONAL DOWNSPOUT - SEE ROOF DRAIN SCHEDULE BELOW FOR MIN. # OF DRAINS.
- 14 ROOF TOP PIPE SUPPORT BLOCK PER DETAIL 3/M1.6
- 15 CONDENSATE LINE PER DETAIL 9/M1.5
- 16 OPTIONAL PV PANELS @ (1) (MAX 2) PANELS PER MOD - SEE SHEET E1.3 FOR INSTALLATION DETAILS.

KEY NOTES

1. SOLATUBE LOCATIONS SHOWN ON PLAN ARE GENERIC AND ACTUAL LOCATIONS MAY VARY - (4) MAX. PER MOD. FRAMING PER S4.0 INSTALLATION PER DETAILS 1 OR 15/M1.6
2. PC TITLE 24 RUNS FOR SOLAR TUBE(S) ASSUME WORSE CASE LAYOUT.
3. OPTIONAL GUTTERS SHALL BE LOCATED ALONG THE END-WALLS OF THE
  - MONO-SLOPE: REAR END WALL ONLY.

SHEET NOTES

- SOLAR ZONE REQUIRED. PER TITLE 24 SECTION 110.10: FOR NON-RESIDENTIAL BUILDINGS, 3 STORIES OR LESS, A MINIMUM OF 15% OF ROOF AREA (EXCLUDING SKYLIGHTS) MUST BE SET ASIDE FOR PHOTO-VOLTAICS (PV). THE ROOF MUST HAVE NO ROOF OBSTRUCTIONS.
1. REQUIRED SOLAR-READY ZONE, AREA PER THE CHART BELOW, MUST BE PROVIDED ON BUILDING ROOF.
  2. ZONE MUST BE LEFT VOID OF ROOF-MOUNTED HVAC UNITS, SKYLIGHTS OR OTHER OBSTRUCTIONS THAT WOULD HINDER FUTURE INSTALLATION OF SOLAR SYSTEM COMPONENTS, INCLUDING PV PANELS.
  3. TOTAL AREA REQUIRED FOR SOLAR-READY ZONE DOES NOT NEED TO BE LOCATED IN ONE AREA BUT CAN BE SPREAD OUT OVER ROOF.
  4. SOLAR-READY ZONE SHALL NOT INCLUDE ROOF OVERHANGS, AND SOLAR SYSTEM COMPONENTS MAY NOT BE PLACED THERE OTHER THAN WHERE SPECIFICALLY NOTED ON PLAN.
  5. THE PC ROOF FRAMING HAS BEEN DESIGNED PER THE DESIGN LOADS SPECIFIED ON SHEET TS, WHICH DOES INCLUDE LOADS FROM SOLAR EQUIPMENT THAT MIGHT BE INSTALLED AT A LATER DATE AS LONG AS THE SOLAR PANELS ARE INSTALLED FLAT ON THE ROOF.
  6. PV PANELS MAY BE INSTALLED ON OPTIONAL SUN-SHADE OVERHANGS AS PART OF THE APPROVED PC IF INSTALLED AS SHOWN ON THIS SHEET AND SHEET E1.3.
  7. EQUIPMENT SUCH AS SOLAR MODULES, INVERTERS, AND METERING EQUIPMENT DO NOT NEED TO BE INSTALLED, NOR DOES CONDUIT, PIPING, OR PRE-INSTALLED MOUNTING HARDWARE.
  8. A STRUCTURAL ENGINEER SHOULD BE CONSULTED PRIOR TO ANY FUTURE ROOF-TOP SOLAR INSTALLATIONS TO DETERMINE THE ADEQUACY OF THE ROOF FRAMING TO SUSTAIN THE LOADS OF THE INSTALLATION ON THE BUILDING STRUCTURE.
  9. A NON-PC DSA APPLICATION NUMBER (SITE SPECIFIC JOB OR STOCKPILE) IS REQUIRED FOR DESIGN & ROOF-TOP INSTALLATION OF SOLAR PANEL SYSTEMS. ITS ANCHORAGE & SUPPORT STRUCTURE ABOVE THE ROOF FRAMING. ROOF-TOP SOLAR SYSTEM SUBMITTALS SHALL NOT BE SUBMITTED AS AN OVER-THE-COUNTER SUBMITTAL.

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PRE-CHECKED SET NAME  
24' x 40' THRU 120' x 40'  
(LOW SEISMIC)  
GEN7  
by AMS

SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-18328 PC  
REVIEWED FOR  
SS  FLS  ACS  CG   
DATE: 07/22/2021

2018 CBC PRE-CHECK (PC) DOCUMENT  
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REVISIONS

DRAWN BY:  
SCALE: AS NOTED  
DATE: MM/DD/YY  
PROJECT NO: XXXX-20  
SHEET TITLE:

TYPICAL ROOF PLAN

SHEET NUMBER:  
**A2.0**

TYPICAL ROOF PLAN

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

BUILDING SIZE (NOM.)	ROOF AREA	MINIMUM NO. OF DRAINS	SIZE OF DRAIN
24'x40'	1158	1	2x3
36'x40'	1737	1	2x3
48'x40'	2316	1	2x3
60'x40'	2895	1	2x3
72'x40'	3474	2	2x3
84'x40'	4053	2	2x3
96'x40'	4632	2	2x3
108'x40'	5211	2	2x3
120'x40'	5790	2	2x3

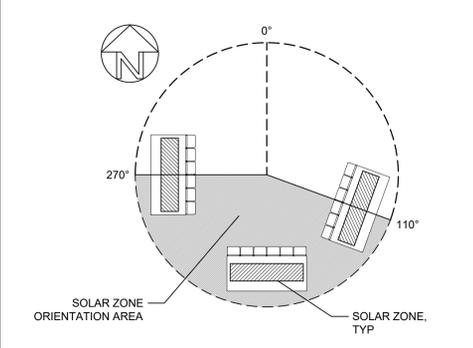
- NOTES:
1. DOWNSPOUTS & LEADERS PER C.P.C. 1106.1 AND TABLE 1103.1.
  2. PC DOWNSPOUT SIZING BASED ON ROOF AREA AND MAX RAINFALL RATE OF 3" PER HOUR. SITE SPECIFIC BUILDING MAY UTILIZE LOCAL RAINFALL RATE--PROVIDE SITE RAINFALL RATE TO DETERMINE MINIMUM NUMBER OF DRAINS REQUIRED.

BUILDING SIZE (FT)	TOTAL # OF 12'-0" WIDE MODULES	TOTAL # OF CENTER MODULES	OVERALL BUILDING WIDTH*
24'x40'	2	0	23'-8 1/2"
36'x40'	3	1	35'-6 3/4"
48'x40'	4	2	47'-5"
60'x40'	5	3	59'-3 1/4"
72'x40'	6	4	71'-1 1/2"
84'x40'	7	5	82'-11 3/4"
96'x40'	8	6	94'-10"
108'x40'	9	7	106'-8 1/4"
120'x40'	10	8	118'-6 1/2"

- NOTES:
1. TOTAL BUILDING WIDTH INCLUDES 1/4" PER MODULAR CONSTRUCTION TOLERANCE PER FOUNDATION SHEETS S1.1, S1.2, & S1.3.

NOT USED

IF THE SOLAR-READY ZONE IS LOCATED ON A SLOPE GREATER THAN 2:12, THEN THE ROOF MUST BE ORIENTATED BETWEEN 110° AND 270° OF TRUE NORTH, IN ORDER TO MAXIMIZE SOLAR EXPOSURE (PER 2019 C.E.C. SECTION 110.1)



SOLAR ORIENTATION

BUILDING SIZE (NOM.)	MAX. ROOF AREA (SQ. FT.)	REQ'D ZONE AREA (SQ. FT.)
24'x40'	1200	180
36'x40'	1800	270
48'x40'	2400	360
60'x40'	3000	450
72'x40'	3600	540
84'x40'	4200	630
96'x40'	4800	720
108'x40'	5400	810
120'x40'	6000	900

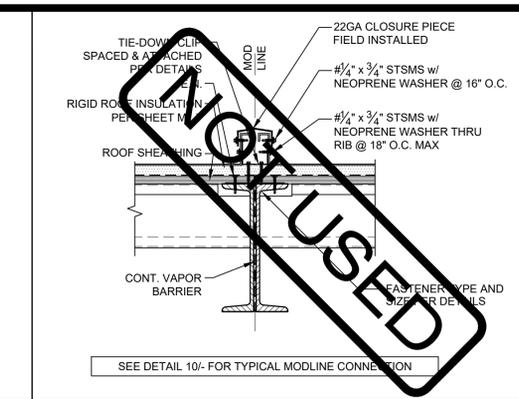
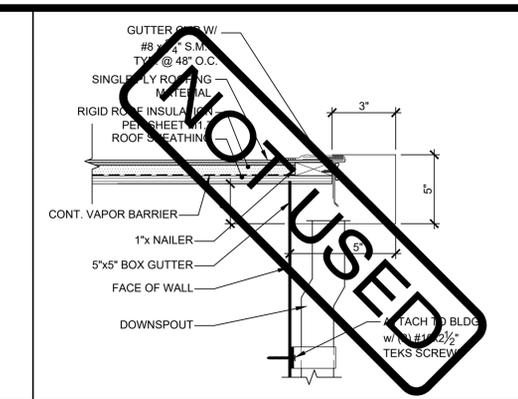
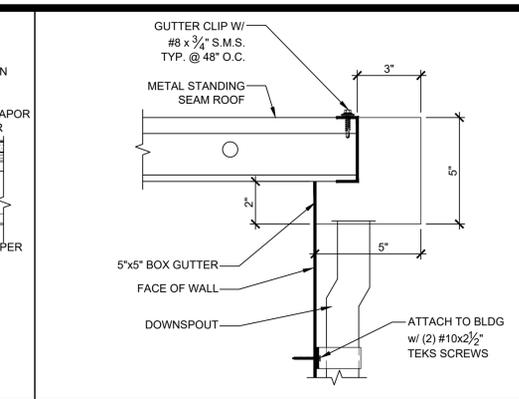
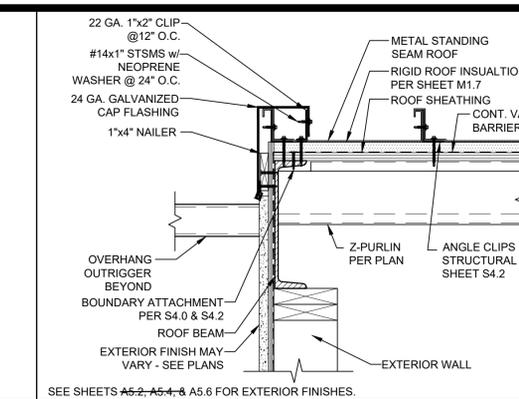
SOLAR-READY ZONE REQUIREMENTS

ROOF DRAIN SCHEDULE

BUILDING SIZE SCHEDULE

3 SOLAR ORIENTATION

4 SOLAR-READY ZONE REQUIREMENTS



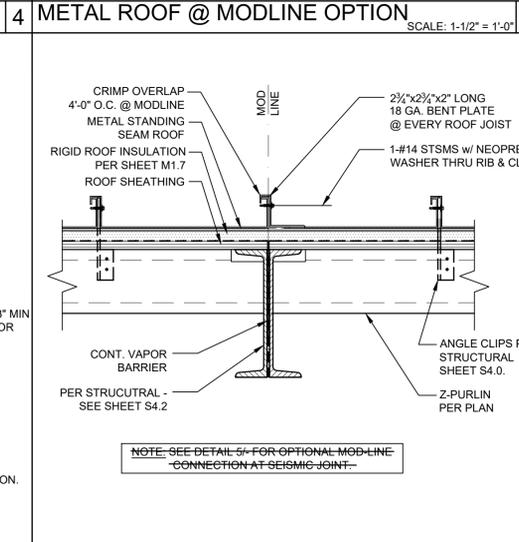
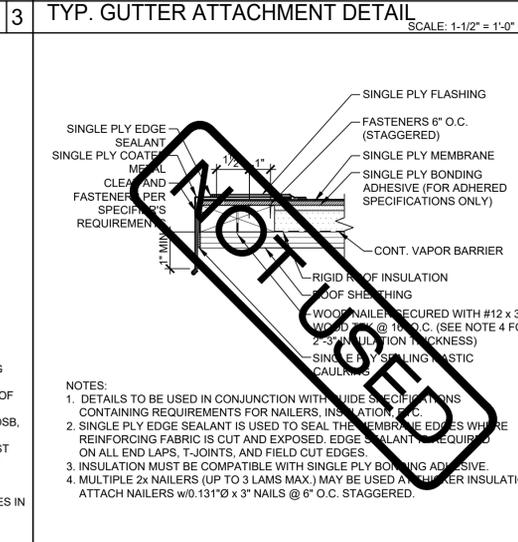
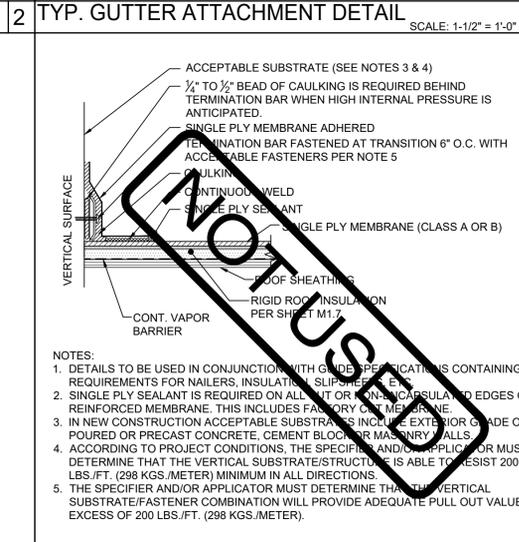
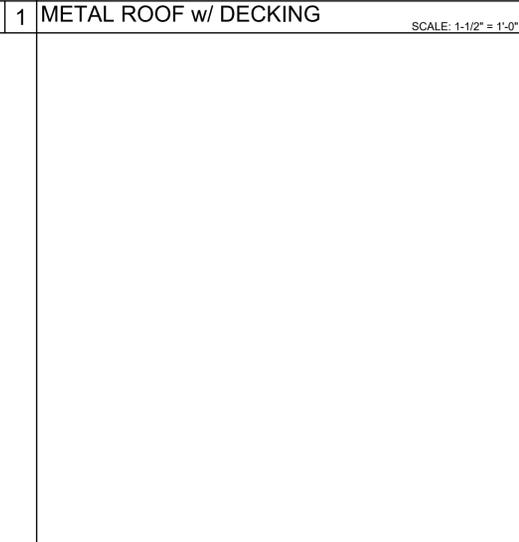
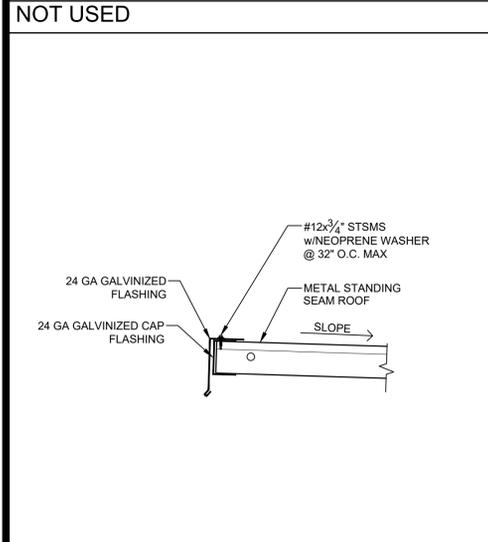
IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-120119 INC.  
REVIEWED FOR  
SS  FLS  ACS   
DATE: 08/23/2022

**AMS**  
American Modular Systems  
787 Spreckels Ave., Manteca, CA 95336  
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**24' x 40' THRU 120' x 40' (LOW SEISMIC)**  
**GEN7**  
by AMS

SITE SPECIFIC PROJECT NAME

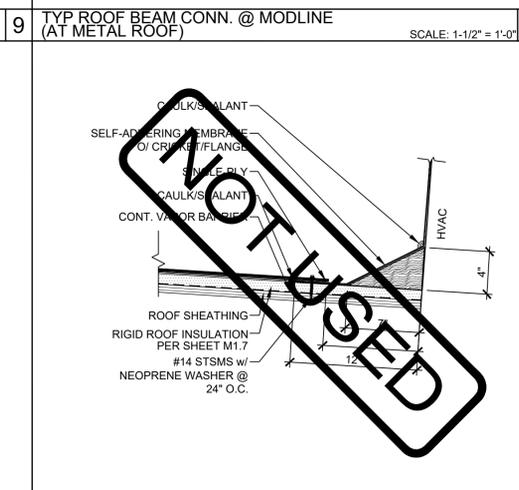
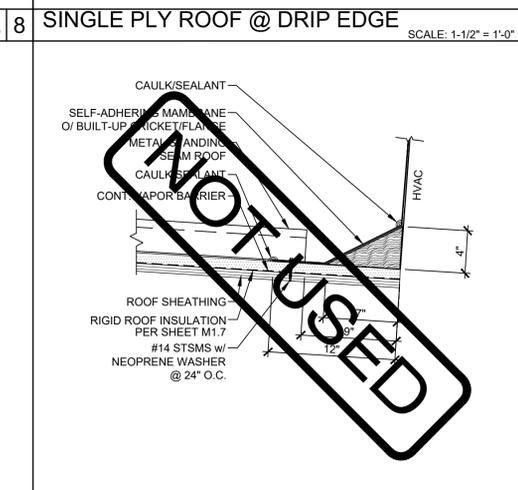
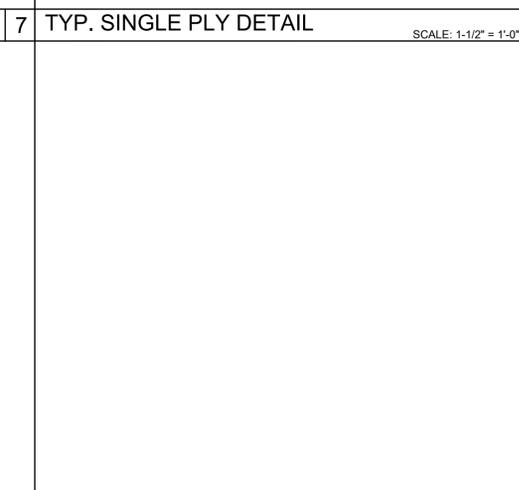
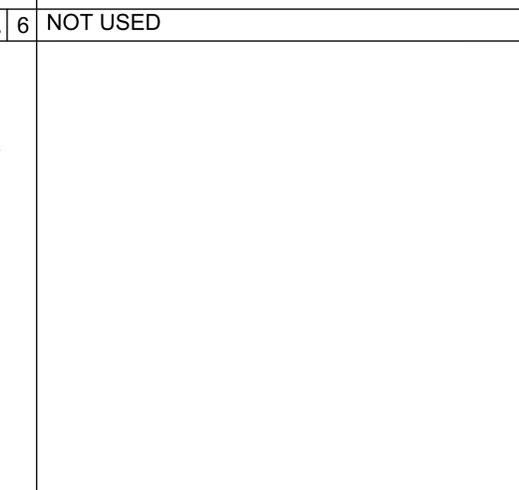
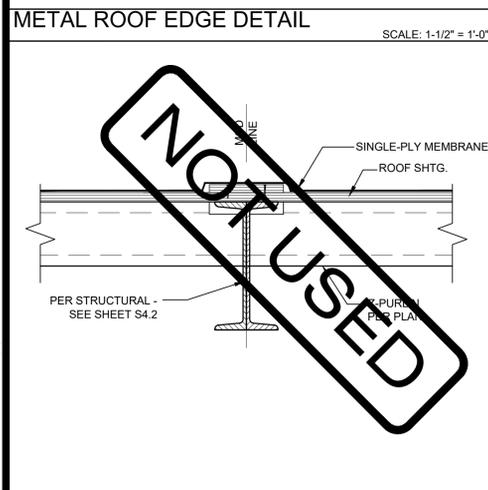


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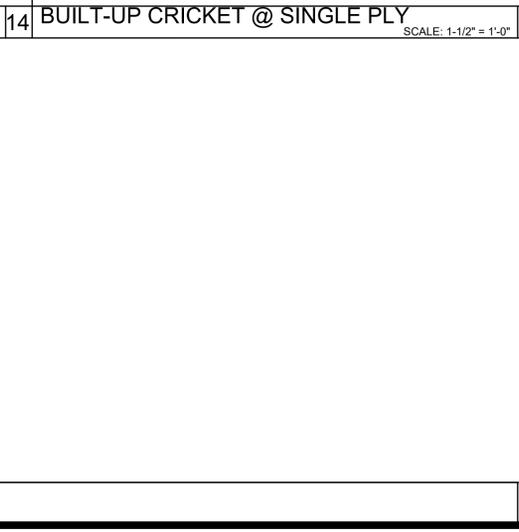
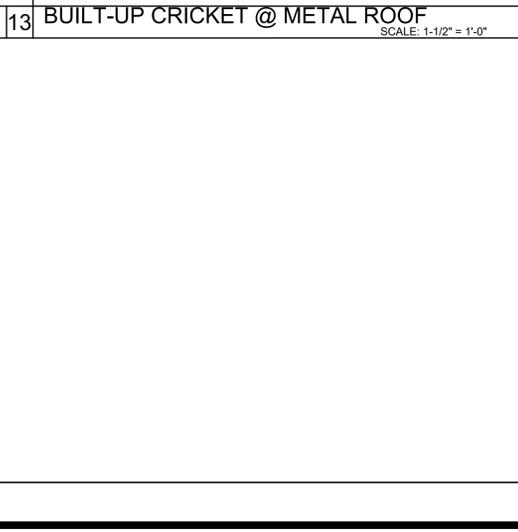
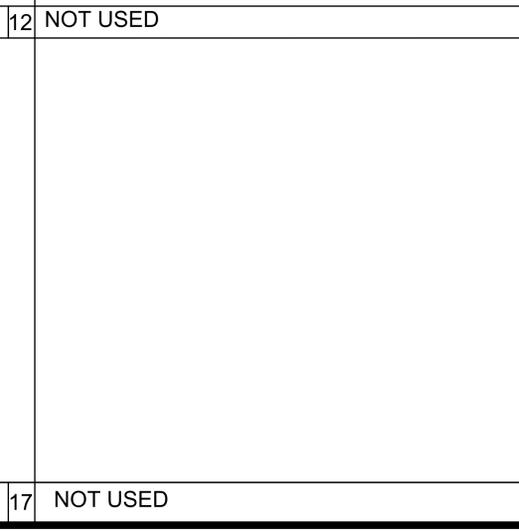
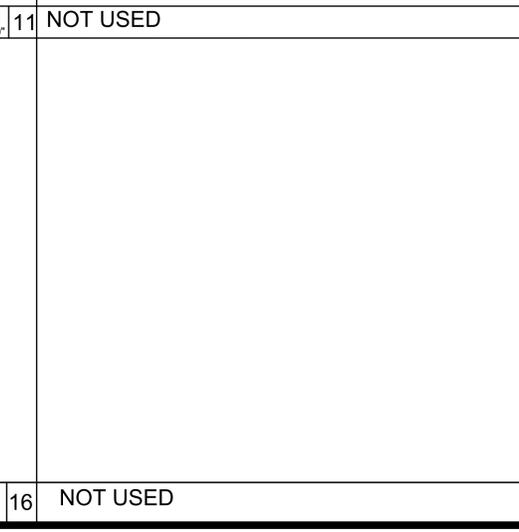
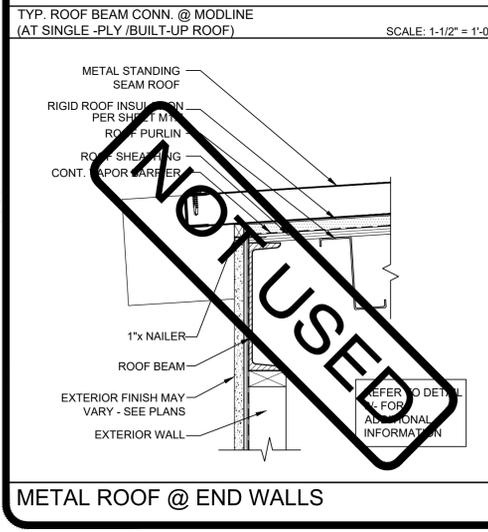
LICENSED ARCHITECT  
PATRICK CANNON  
No. C12631  
Ren. 2-31-23  
STATE OF CALIFORNIA

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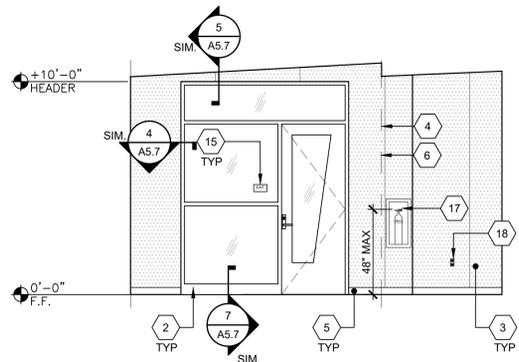
REVISIONS

DRAWN BY:  
SCALE: AS NOTED  
DATE: MMDDYY  
PROJECT NO: XXXX-20  
SHEET TITLE:  
**TYPICAL ROOF DETAILS**  
SHEET NUMBER:  
**A2.1**



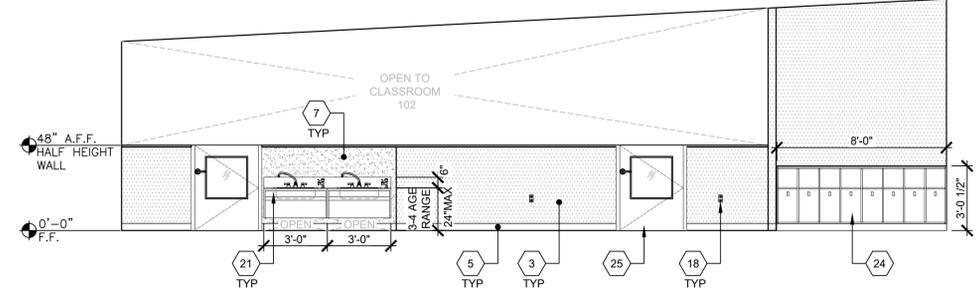
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PROJECT NO: XXXX-20  
SHEET TITLE:  
**TYPICAL ROOF DETAILS**  
SHEET NUMBER:  
**A2.1**



CLASSROOM 101 FRONT END WALL ELEVATION

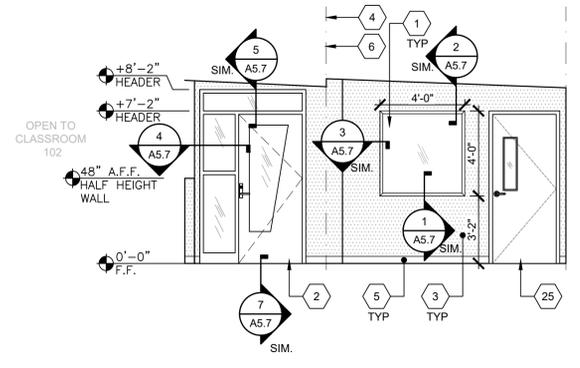
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CLASSROOM 101 SIDE WALL ELEVATION

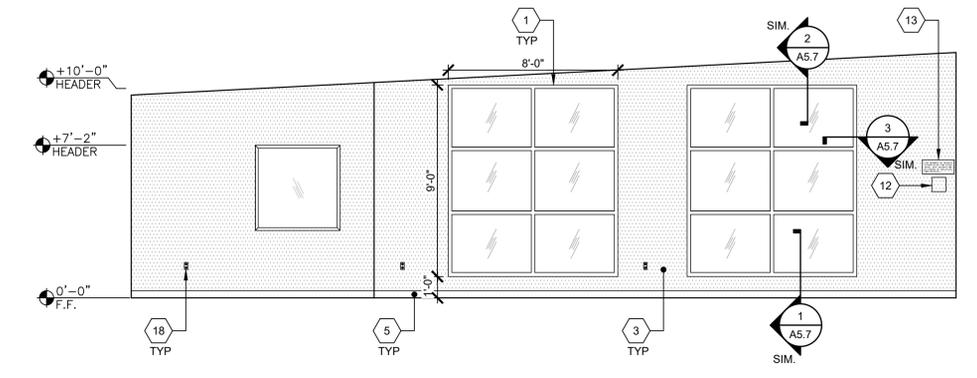
SCALE: 1/4"=1'-0"

- 1 WINDOW, SEE SPEC'S
- 2 TYP EXTERIOR DOOR
- 3 TACKBOARD - (FLAME RESISTANT INDUSTRIAL TACKABLE BOARD) - SHALL BE CLASS A RATED (ASTM E-84). NOMINAL PANEL THICKNESS SHALL BE ± 0.5" AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES.
- 4 TYP MOD LINE
- 5 TOP SET BASE
- 6 FULL PANEL CLOSE-UP AT MOD-LINES, TYP
- 7 F.R.P.
- 8 NOT USED
- 9 NOT USED
- 10 NOT USED
- 11 NOT USED
- 12 ASSISTIVE LISTENING SIGH, BY OTHERS, INSTALLED PER DETAIL 17/N4.0 SIGN SHALL BE A MAXIMUM OF 70" A.F.F. TO BASELINE OF HIGHEST TEXT.
- 13 OCCUPANT LOAD SIGN PER DETAIL 11/N4.0 (BY OTHERS)
- 14 LIGHT SWITCH - SEE ELECTRICAL SHEETS
- 15 EXIT TACTILE SIGN PER DETAIL 10/N4.0 (NIC)
- 16 THERMOSTAT, TOP @ 48" A.F.F. - SEE MECHANICAL SHEETS
- 17 FIRE EXTINGUISHER TOP OF HANDLE @ 48" MAX. A.F.F. PROTRUSION MAX 4" FROM WALL IF BOTTOM OF FIRE EXTINGUISHER GREATER THAN +27" A.F.F.
- 18 TYP DUPLEX OUTLET - SEE ELECTRICAL SHEETS
- 19 NOT USED
- 20 NOT USED
- 21 CASEWORK w/SINK - BLOCKING PER A7.1 & P1.0 PLUMBING FIXTURE SCHEDULE
- 22 SERVING TABLE
- 23 NOT USED
- 24 CUBBIES
- 25 INTERIOR DOOR
- 26 NOT USED
- 27 NOT USED
- 28 NOT USED
- 29 NOT USED
- 30 NOT USED
- 31 NOT USED
- 32 NOT USED



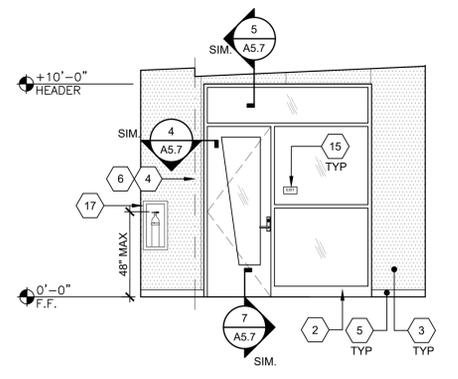
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SCALE: 1/4"=1'-0"



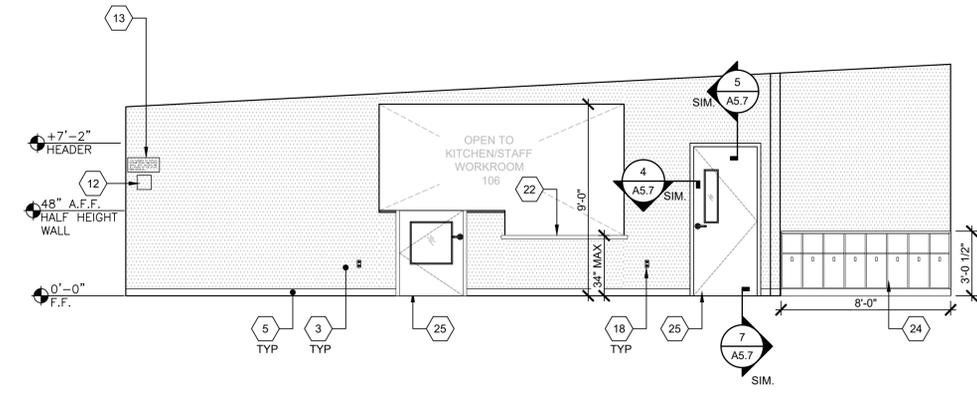
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SCALE: 1/4"=1'-0"



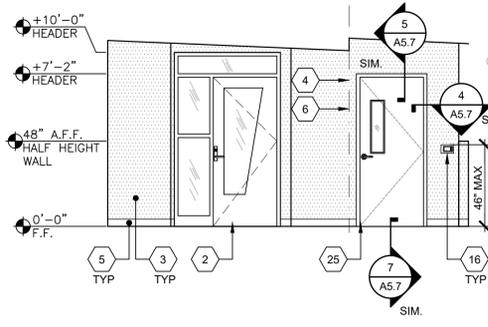
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SCALE: 1/4"=1'-0"



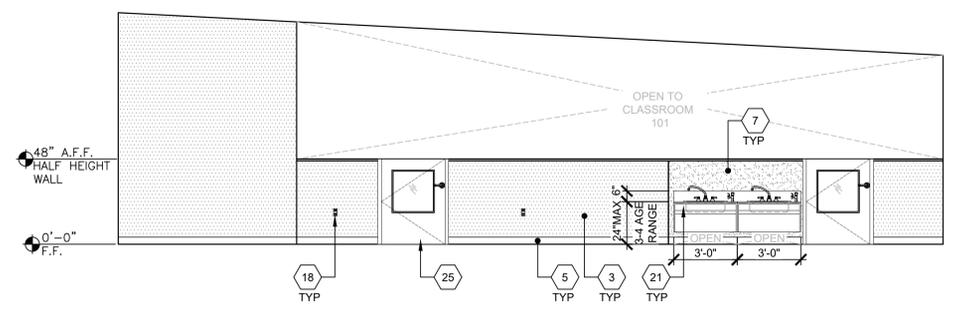
CLASSROOM 102 SIDE WALL ELEVATION

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



CLASSROOM 102 REAR END WALL ELEVATION

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



CLASSROOM 102 SIDE WALL ELEVATION

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

KEYNOTES

IDENTIFICATION STAMP  
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APP: 02-120119 INC:  
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**AMS**  
American Modular Systems  
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PRE-CHECKED SET NAME  
24' x 40' THRU 120' x 40'  
(LOW SEISMIC)  
**GEN7**  
by AMS

SITE SPECIFIC PROJECT NAME  
SOLANO COMMUNITY COLLEGE DISTRICT  
CHILD DEVELOPMENT CENTER  
(1) 96'x40' BUILDING

2019 CBC PRE-CHECK (PC) DOCUMENT  
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MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT  
PATRICIA CANNON  
No. C12631  
Ren. 3-31-23  
STATE OF CALIFORNIA

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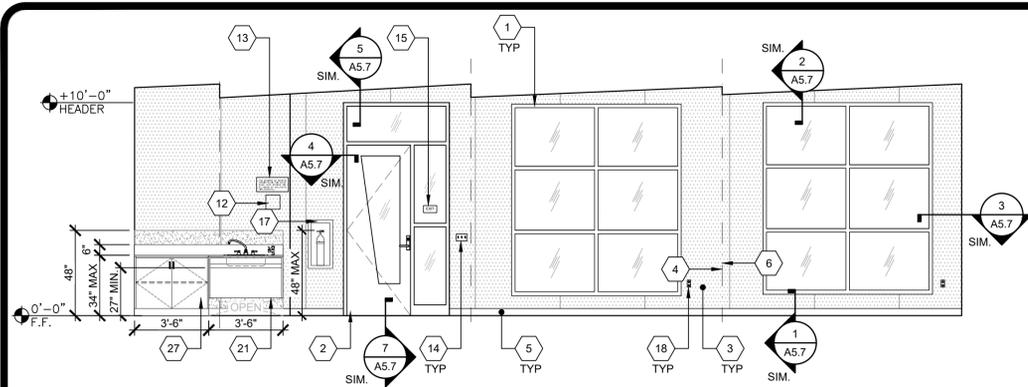
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SCALE: AS NOTED  
DATE: 07/28/22  
PROJECT NO: 1665-21  
SHEET TITLE:

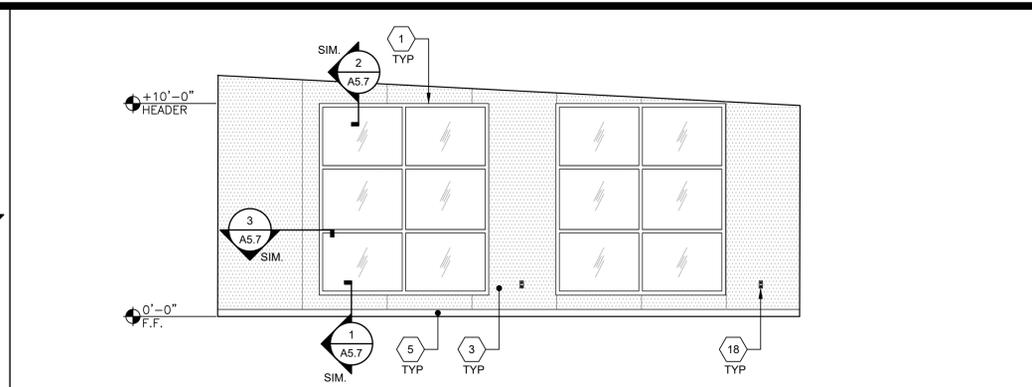
TYPICAL CLASSROOM  
INTERIOR ELEVATIONS

SHEET NUMBER:  
**A4.0A**

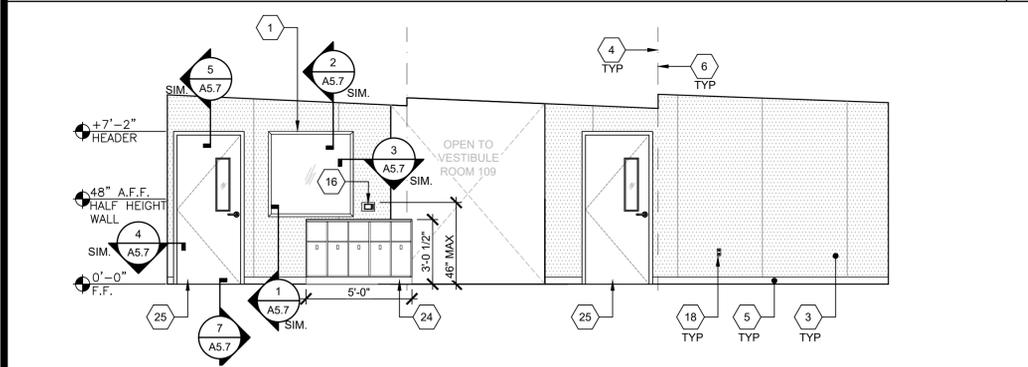
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 02/08/2022 10:48 AM 1/4"=1'-0" CLASSROOM 101 SIDE WALL ELEVATION  
 02/08/2022 10:48 AM 1/4"=1'-0" CLASSROOM 101 REAR END WALL ELEVATION  
 02/08/2022 10:48 AM 1/4"=1'-0" CLASSROOM 102 FRONT END WALL ELEVATION  
 02/08/2022 10:48 AM 1/4"=1'-0" CLASSROOM 102 SIDE WALL ELEVATION  
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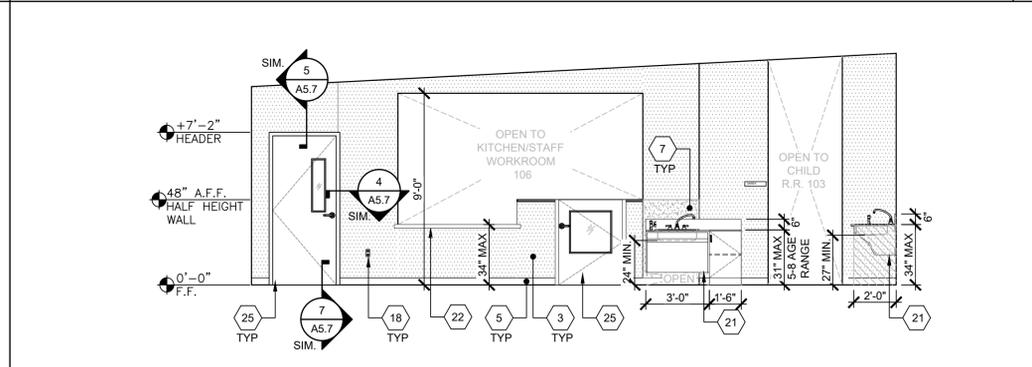
CLASSROOM 103 FRONT END WALL ELEVATION SCALE: 1/4"=1'-0" 1



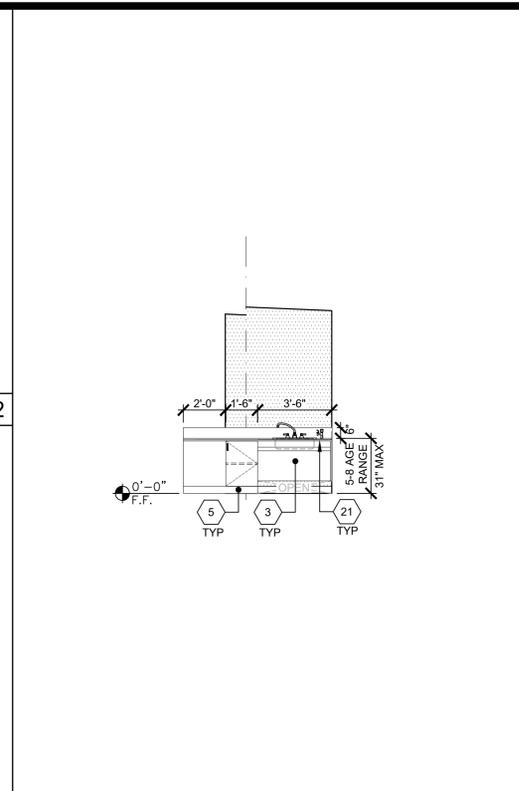
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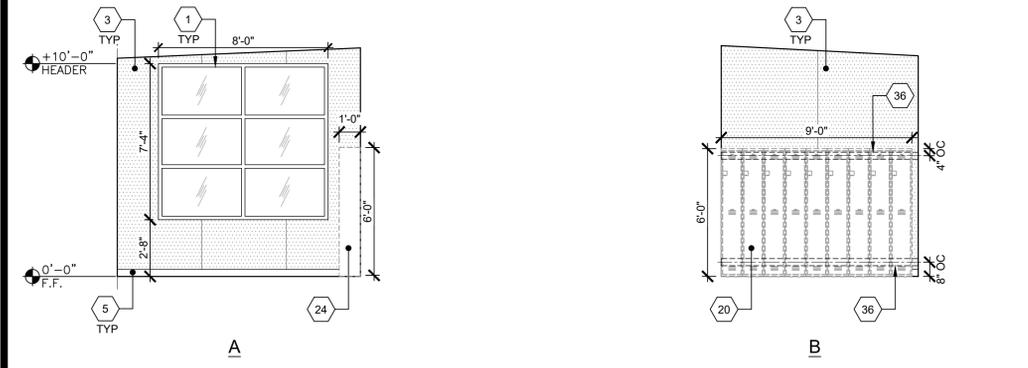
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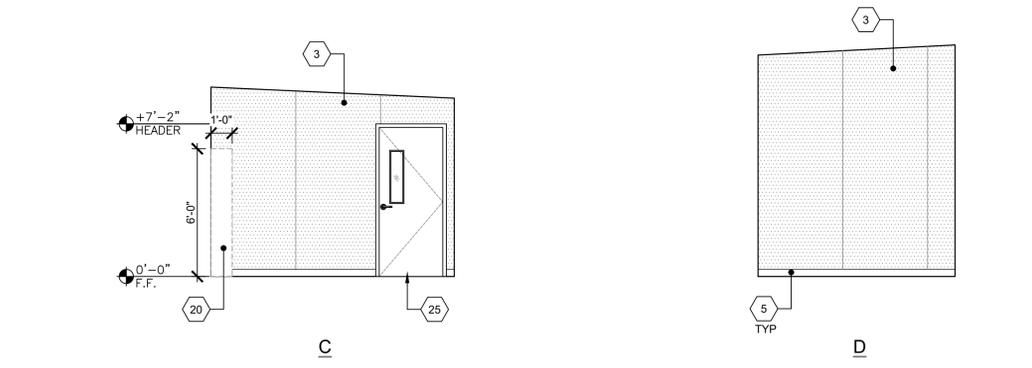
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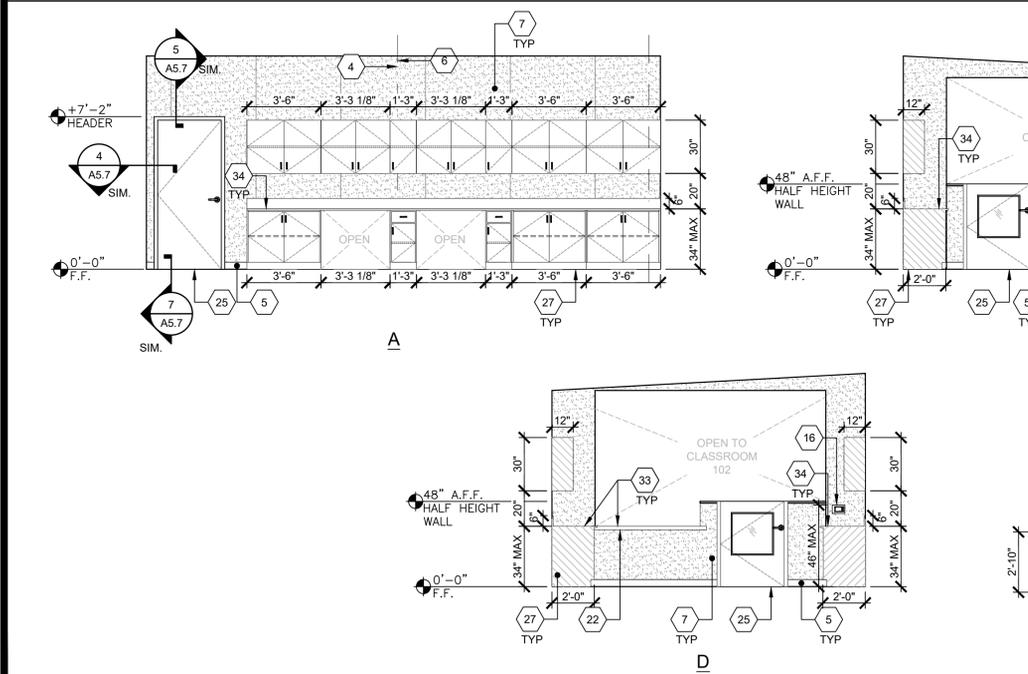
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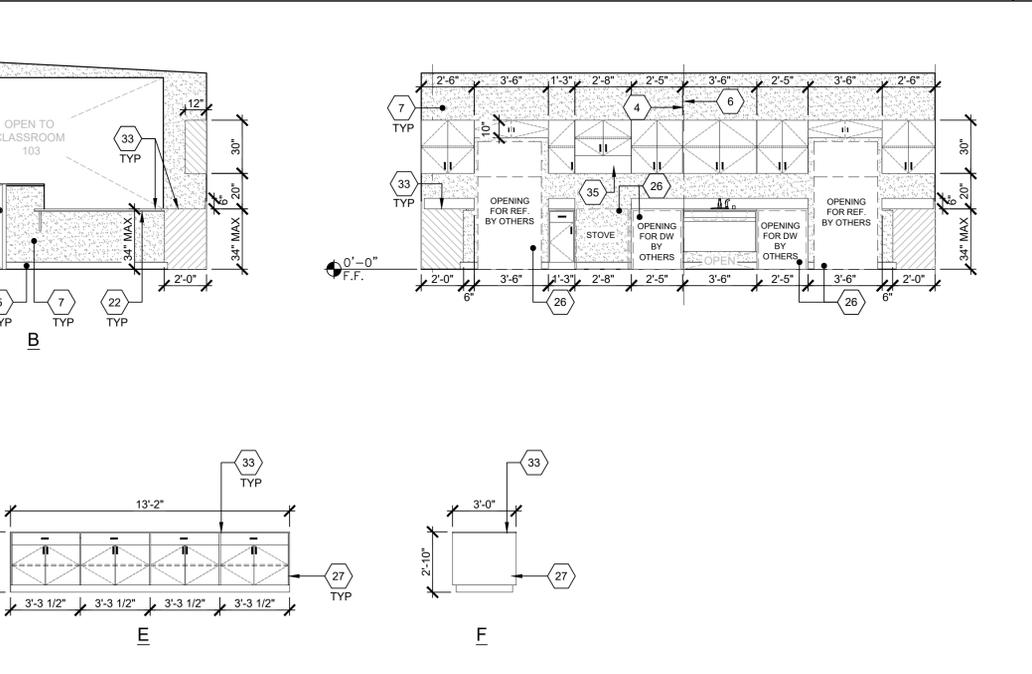
STAFF ROOM 105 ELEVATION SCALE: 1/4"=1'-0" 5



KITCHEN 106 END WALL ELEVATION SCALE: 1/4"=1'-0" 6



KITCHEN 106 END WALL ELEVATION SCALE: 1/4"=1'-0" 6



KITCHEN 106 END WALL ELEVATION SCALE: 1/4"=1'-0" 6

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- 22 SERVING TABLE
- 23 NOT USED
- 24 CUBBIES
- 25 INTERIOR DOOR
- 26 APPLIANCES (BY OTHERS)
- 27 CASEWORK - BLOCKING PER A7.1
- 28 RESTROOM SIGNAGE
- 29 NOT USED
- 30 NOT USED
- 31 NOT USED
- 32 NOT USED
- 33 STAINLESS STEEL COUNTER TOP W/CASEWORK
- 34 SOLID SURFACE COUNTER TOP W/CASEWORK
- 35 HOOD (BY AMS)
- 36 IN-WALL BLOCKING - 4"x4"

KEYNOTES

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24' x 40' THRU 120' x 40'  
(LOW SEISMIC)  
**GEN7**  
by AMS

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CHILD DEVELOPMENT CENTER  
(1) 96'x40' BUILDING

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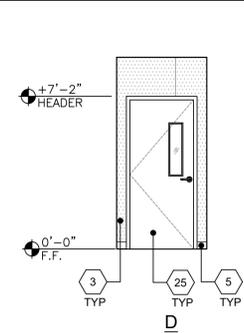
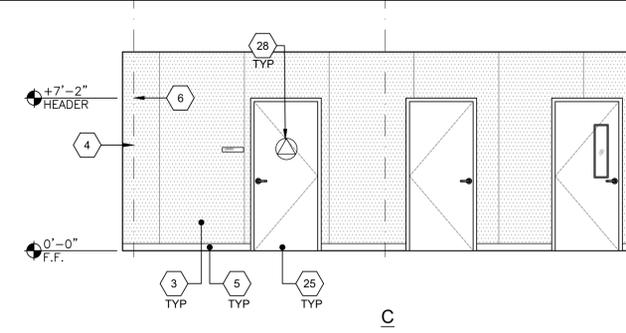
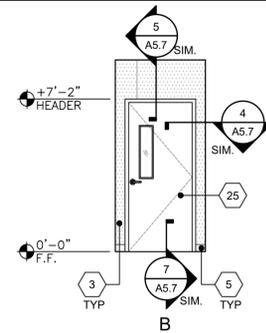
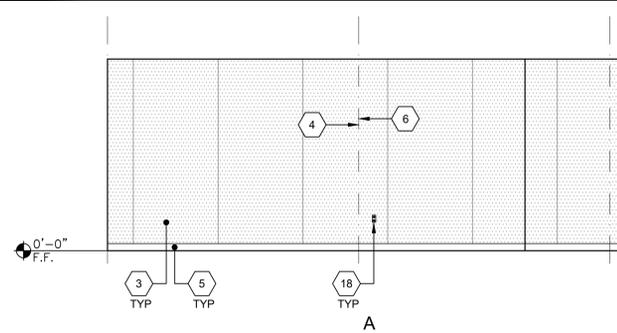
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No. C12631  
Ren. 3-31-23  
STATE OF CALIFORNIA

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SCALE: AS NOTED  
DATE: 07/28/22  
PROJECT NO: 1665-21  
SHEET TITLE:  
TYPICAL CLASSROOM  
INTERIOR ELEVATIONS

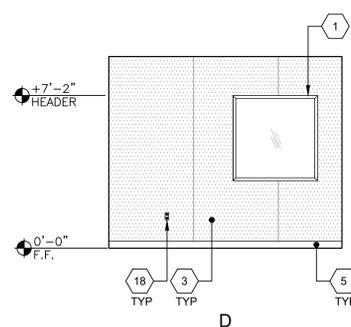
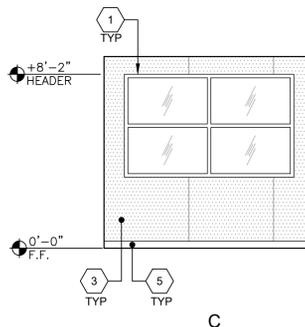
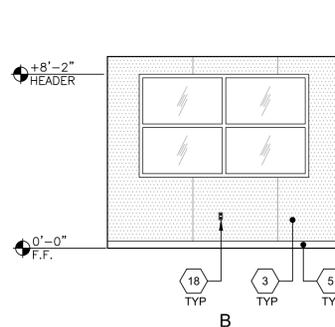
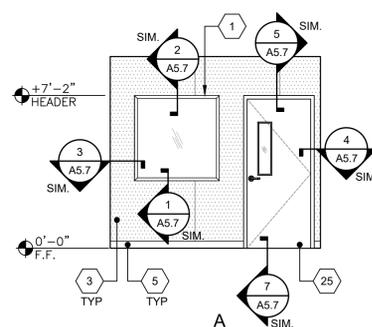
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**A4.0B**



HALL 107 ELEVATION

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

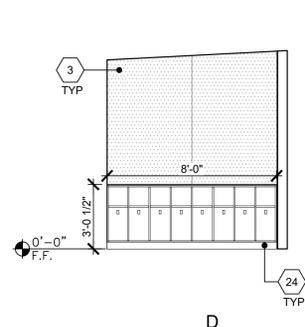
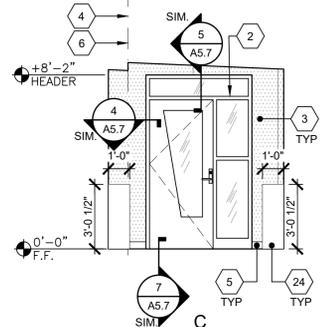
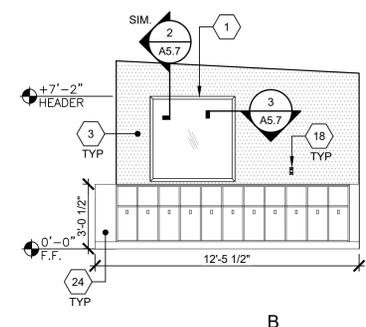
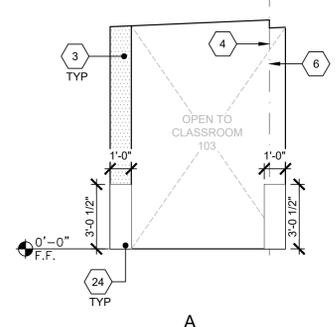
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OFFICE 108 ELEVATION

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

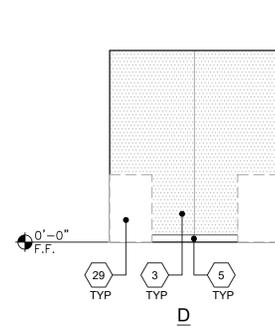
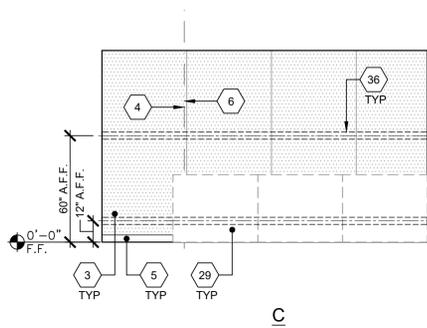
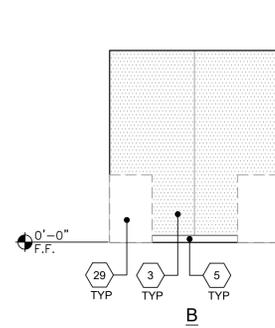
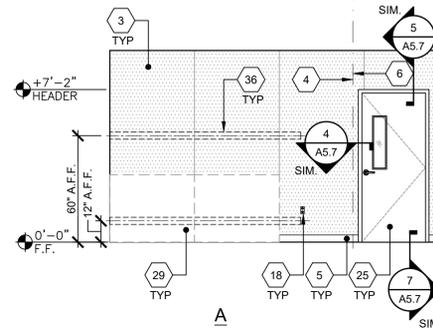
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VESTIBLE 109 ELEVATION

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

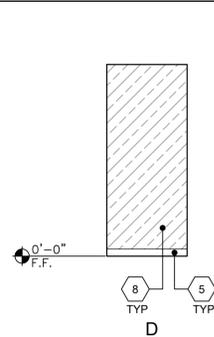
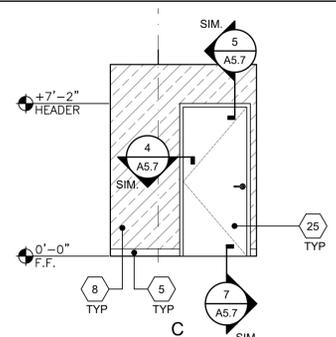
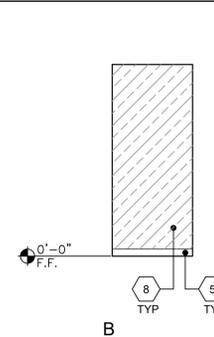
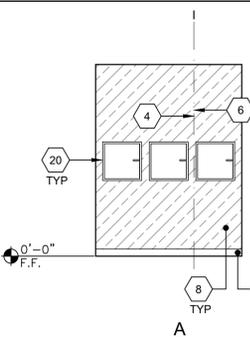
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CLOSET 110 ELEVATION

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

4



ELECTRICAL ROOM 112 ELEVATION

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

5

- 1 NOT USED
- 2 NOT USED
- 3 TACKBOARD - (FLAME RESISTANT INDUSTRIAL TACKABLE BOARD) - SHALL BE CLASS A RATED (ASTM E-84), NOMINAL PANEL THICKNESS SHALL BE ± 0.5" AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES.
- 4 TYP MOD LINE
- 5 TOP SET BASE
- 6 FULL PANEL CLOSE-UP AT MOD-LINES, TYP
- 7 NOT USED
- 8 PLYWOOD
- 9 NOT USED
- 10 NOT USED
- 11 NOT USED
- 12 NOT USED
- 13 NOT USED
- 14 NOT USED
- 15 NOT USED
- 16 NOT USED
- 17 NOT USED
- 18 TYP DUPLEX OUTLET - SEE ELECTRICAL SHEETS
- 19 NOT USED
- 20 ELECTRICAL PANEL
- 21 NOT USED
- 22 NOT USED
- 23 NOT USED
- 24 CUBBIES
- 25 INTERIOR DOOR
- 26 NOT USED
- 27 NOT USED
- 28 RESTROOM SIGNAGE
- 29 FURNITURE (BY OTHERS)
- 30 NOT USED
- 31 NOT USED
- 32 NOT USED
- 33 NOT USED
- 34 NOT USED
- 35 NOT USED
- 36 IN-WALL BLOCKING - 4"x4"

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-120119 INC.  
REVIEWED FOR  
SS  FLS  ACS   
DATE: 08/23/2022

**AMS**  
American Modular Systems  
787 Spreckels Ave., Manteca, CA 95336  
Phone (209) 825-1921 Fax (209) 825-7018  
www.americanmodular.com

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PRE-CHECKED SET NAME  
24' x 40' THRU 120' x 40'  
(LOW SEISMIC)  
**GEN7**  
by AMS

SITE SPECIFIC PROJECT NAME  
SOLANO COMMUNITY COLLEGE DISTRICT  
CHILD DEVELOPMENT CENTER  
(1) 96'x40' BUILDING

2019 CBC PRE-CHECK (PC) DOCUMENT  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.  
MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT  
PATRICK CANNON  
No. C12631  
Ren. 3-31-23  
STATE OF CALIFORNIA

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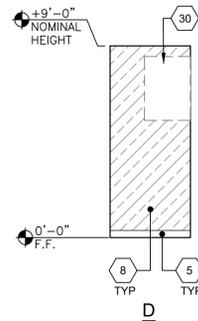
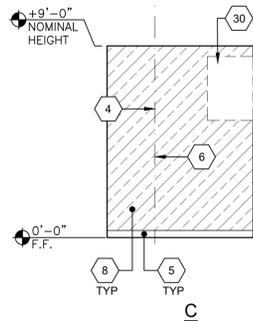
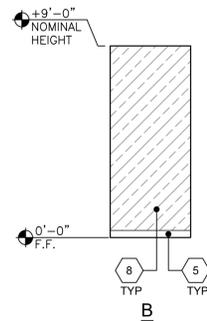
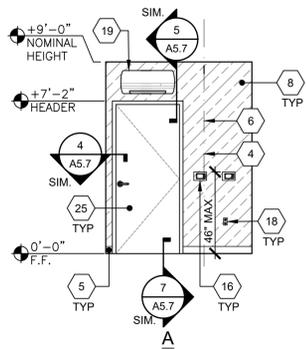
REVISIONS	

DRAWN BY: KA  
SCALE: AS NOTED  
DATE: 07/28/22  
PROJECT NO: 1665-21  
SHEET TITLE:

TYPICAL CLASSROOM  
INTERIOR ELEVATIONS

SHEET NUMBER:  
**A4.0C**

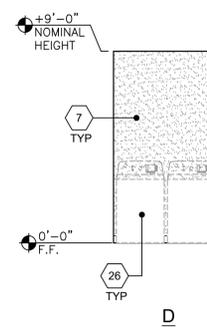
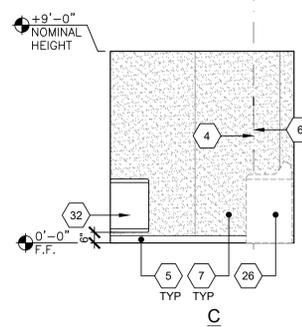
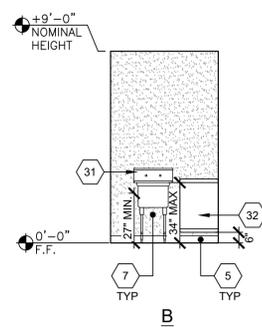
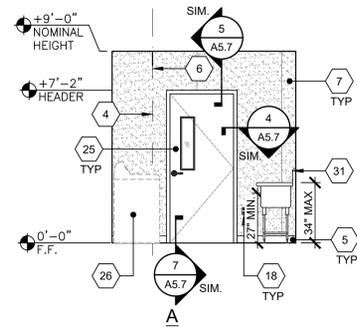
KEYNOTES



IT CLOSET 113 ELEVATION

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

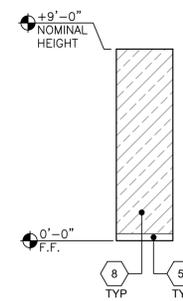
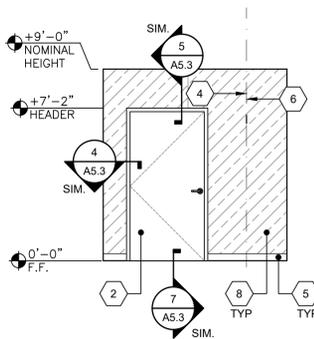
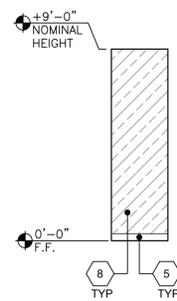
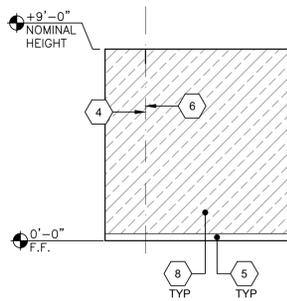
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LAUNDRY ROOM 115 ELEVATION

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

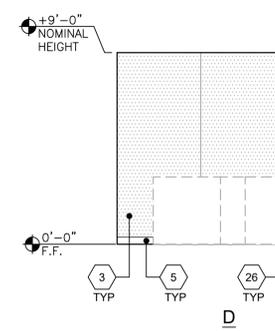
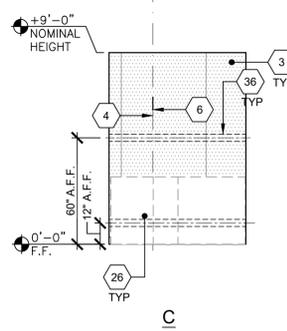
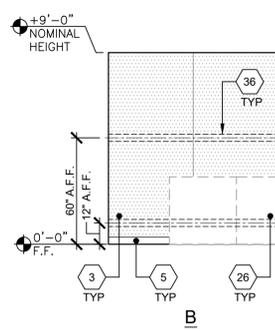
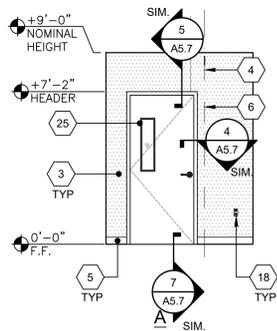
2



FIRE RISER 114 ELEVATION

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

3

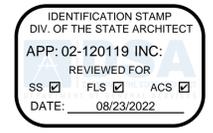


CLOSET 117 ELEVATION

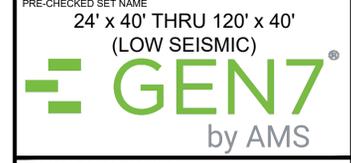
SCALE: 1/4"=1'-0"

4

- 1 NOT USED
- 2 TYP EXTERIOR DOOR
- 3 TACKBOARD - (FLAME RESISTANT INDUSTRIAL TACKABLE BOARD) - SHALL BE CLASS A RATED (ASTM E-84) NOMINAL PANEL THICKNESS SHALL BE ± 0.5" AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES.
- 4 TYP MOD LINE
- 5 TOP SET BASE
- 6 FULL PANEL CLOSE-UP AT MOD-LINES, TYP
- 7 F.R.P.
- 8 PLYWOOD
- 9 NOT USED
- 10 NOT USED
- 11 NOT USED
- 12 NOT USED
- 13 NOT USED
- 14 LIGHT SWITCH - SEE ELECTRICAL SHEETS
- 15 NOT USED
- 16 THERMOSTAT, TOP @ 48" A.F.F. - SEE MECHANICAL SHEETS
- 17 NOT USED
- 18 TYP DUPLEX OUTLET - SEE ELECTRICAL SHEETS
- 19 MINI SPLIT AIR HANDLER
- 20 NOT USED
- 21 NOT USED
- 22 NOT USED
- 23 NOT USED
- 24 NOT USED
- 25 INTERIOR DOOR
- 26 APPLIANCES (BY OTHERS)
- 27 NOT USED
- 28 NOT USED
- 29 NOT USED
- 30 IDF
- 31 CUSTODIAN SINK
- 32 WATER HEATER
- 33 NOT USED
- 34 NOT USED
- 35 NOT USED
- 36 IN-WALL BLOCKING - 4"X4"



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SITE SPECIFIC PROJECT NAME  
 SOLANO COMMUNITY COLLEGE DISTRICT  
 CHILD DEVELOPMENT CENTER  
 (1) 96'X40' BUILDING

2019 CBC PRE-CHECK (PC) DOCUMENT  
 A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.  
 MANUFACTURER PROFESSIONAL OF RECORD ON PC



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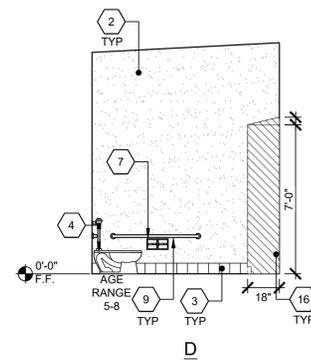
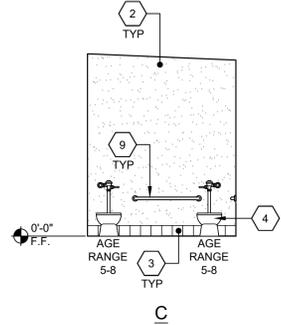
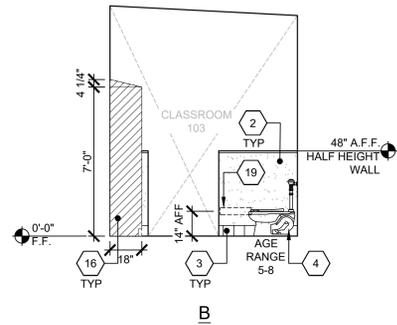
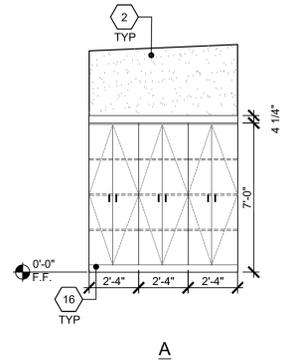
REVISIONS	

DRAWN BY: KA  
 SCALE: AS NOTED  
 DATE: 07/28/22  
 PROJECT NO: 1665-21  
 SHEET TITLE:  
 TYPICAL CLASSROOM  
 INTERIOR ELEVATIONS

SHEET NUMBER:  
**A4.0D**

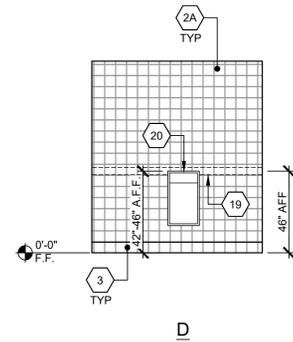
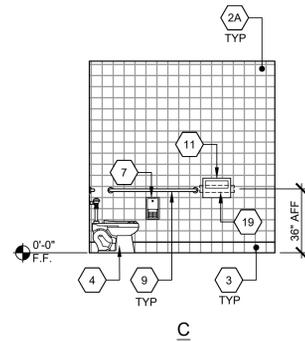
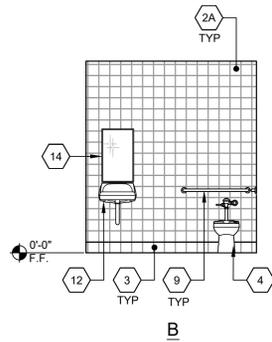
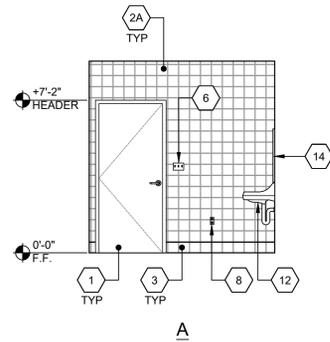
KEYNOTES





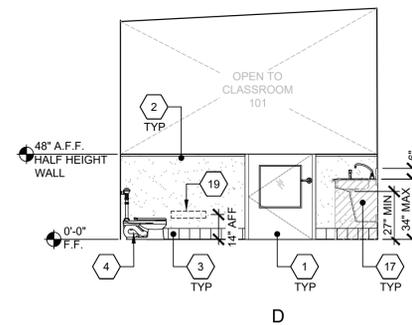
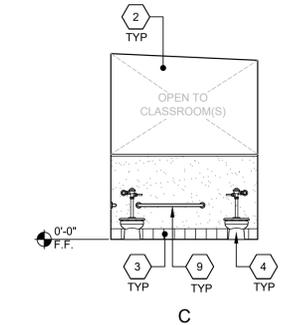
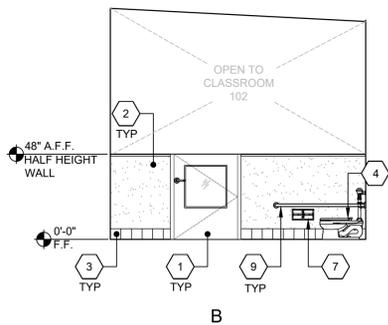
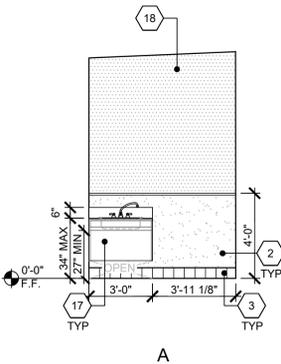
CHILD R.R. 104 (AGES: 5-8) RESTROOM ELEVATIONS

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



STAFF R.R. 111 (AGES: 13-ADULT) RESTROOM ELEVATIONS

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



CHILD R.R. 120 (AGES: 3-4) RESTROOM ELEVATIONS

SCALE: 1/4" = 1'-0" 3

- 1 TYPICAL DOOR
- 2 F.R.P.
- 2A CERAMIC TILE
- 3 6" TOP SET BASE - REFER TO DETAIL 19/A1.2
- 4 ACCESSIBLE TOILET - SEE DETAIL 14/P2.0
- 5 NOT USED
- 6 LIGHT SWITCH - SEE ELECTRICAL SHEETS
- 7 TOILET PAPER DISPENSER PER P1.0
- 8 TYP. GFCI OUTLET - SEE ELECTRICAL SHEETS
- 9 GRAB BAR - SEE DETAIL 6/A7.1
- 10 NOT USED
- 11 TOILET SEAT COVER DISPENSER PER P1.0 (BY OTHERS)
- 12 ACCESSIBLE LAVATORY - SEE DETAIL 17/P2.0
- 13 NOT USED
- 14 TYP. MIRROR (19" MAX. WEIGHT) - SEE DETAIL 17/P2.0
- 15 NOT USED
- 16 CASEWORK - REFER TO 8/A7.1 FOR ATTACHMENT
- 17 CASEWORK W/SINK - REFER TO 8/P2.0 AND 8/A7.1 FOR ATTACHMENT
- 18 TACKBOARD - (FLAME RESISTANT INDUSTRIAL TACKABLE BOARD) - SHALL BE CLASS A RATED (ASTM E-84). NOMINAL PANEL THICKNESS SHALL BE ± 0.5" AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES.
- 19 IN-WALL BLOCKING - 4"x4"
- 20 TRASH RECEPTACLE

NOTE: FOR ACCESSIBLE FIXTURES & ACCESSORIES MOUNTING HEIGHT REQUIREMENTS (PER CBC CHAPTER 11B), SEE SHEET P2.0, DETAIL 10.

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-120119 INC.  
REVIEWED FOR  
SS  FLS  ACS   
DATE: 08/23/2022

**AMS**  
American Modular Systems  
787 Spreckels Ave., Manteca, CA 95336  
Phone (209) 825-1921 Fax (209) 825-7018  
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PRE-CHECKED SET NAME  
24' x 40' THRU 120' x 40'  
(LOW SEISMIC)  
**GEN7**  
by AMS

SITE SPECIFIC PROJECT NAME  
SOLANO COMMUNITY COLLEGE DISTRICT  
CHILD DEVELOPMENT CENTER  
(1) 96'x40' BUILDING

2019 CBC PRE-CHECK (PC) DOCUMENT  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.  
MANUFACTURER PROFESSIONAL OF RECORD ON PC



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REVISIONS	

DRAWN BY: KA  
SCALE: AS NOTED  
DATE: 06/17/22  
PROJECT NO: 1665-21  
SHEET TITLE:

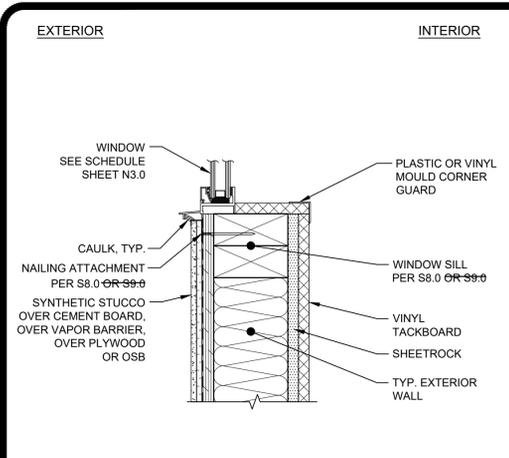
RESTROOM  
INTERIOR ELEVATIONS

SHEET NUMBER:

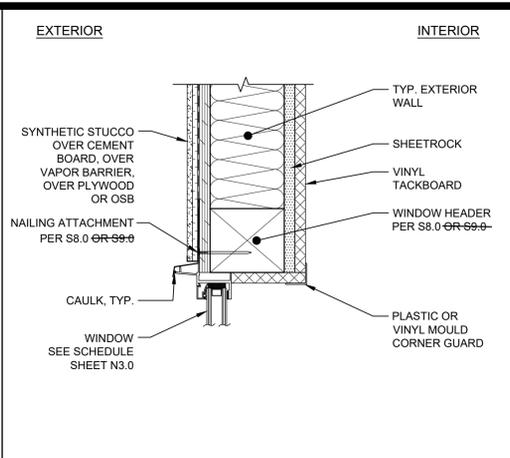
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KEYNOTES

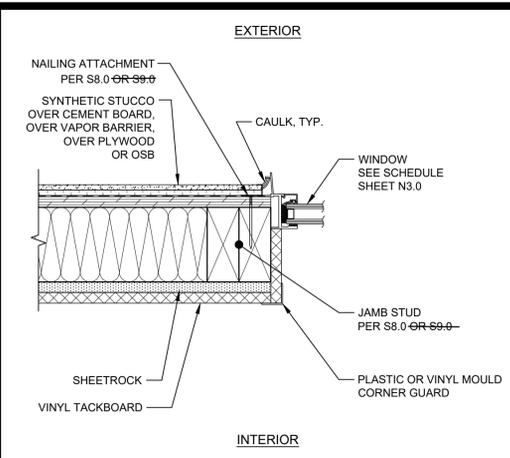




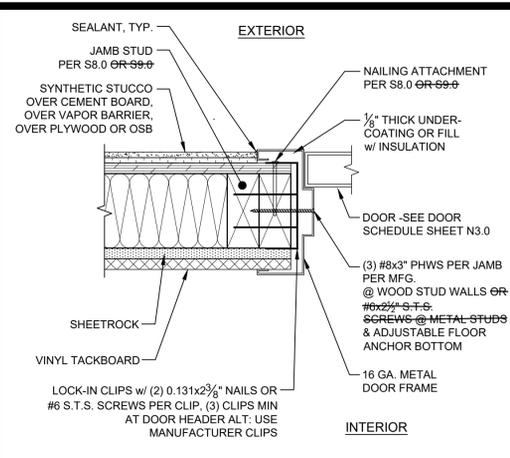
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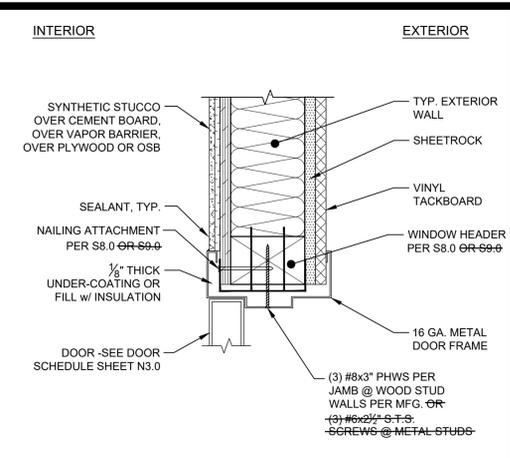
TYPICAL WINDOW HEADER SCALE: 3" = 1'-0" 2



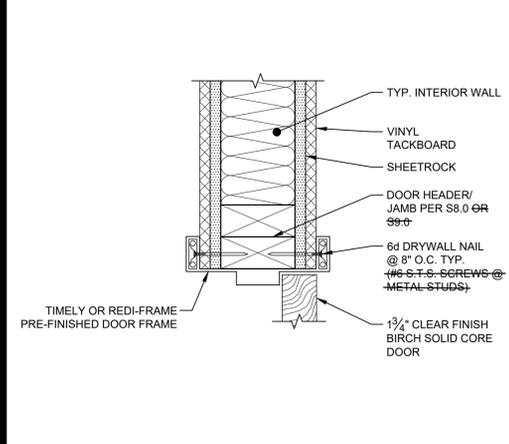
TYPICAL WINDOW JAMB SCALE: 3" = 1'-0" 3



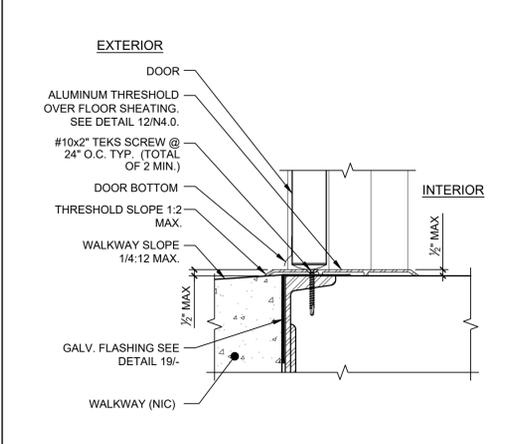
TYPICAL DOOR JAMB SCALE: 3" = 1'-0" 4



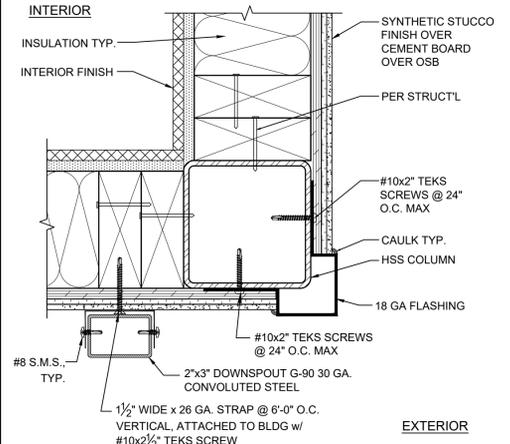
TYPICAL DOOR HEADER SCALE: 3" = 1'-0" 5



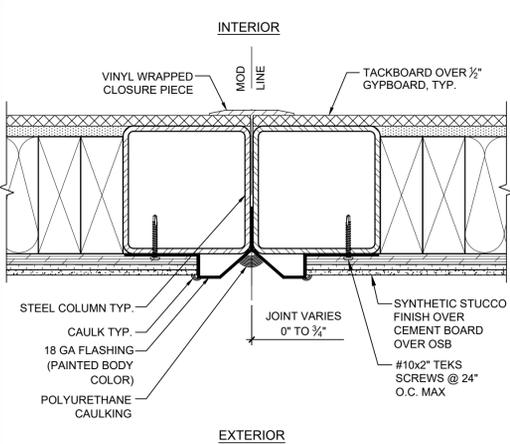
TYP. INTERIOR DOOR HEADER/JAMB SCALE: 3" = 1'-0" 6



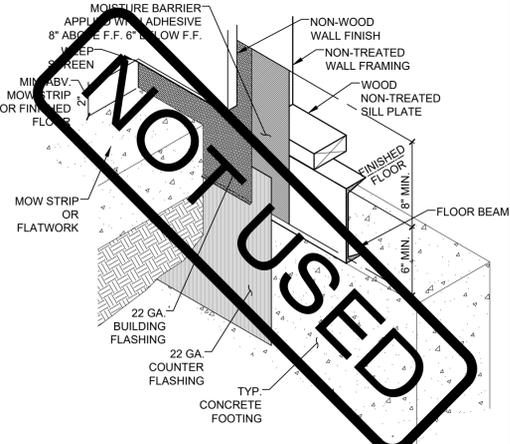
TYPICAL THRESHOLD DETAIL SCALE: 3" = 1'-0" 7



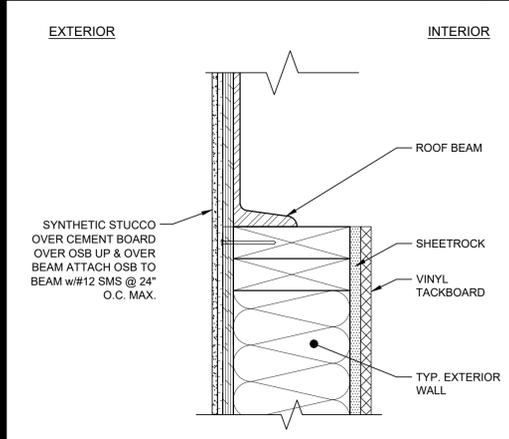
TYP. BLDG CORNER & DOWNSPOUT ATTACHMENT DETAIL SCALE: 3" = 1'-0" 8



TYP. MODLINE CLOSURE DETAIL SCALE: 3" = 1'-0" 9



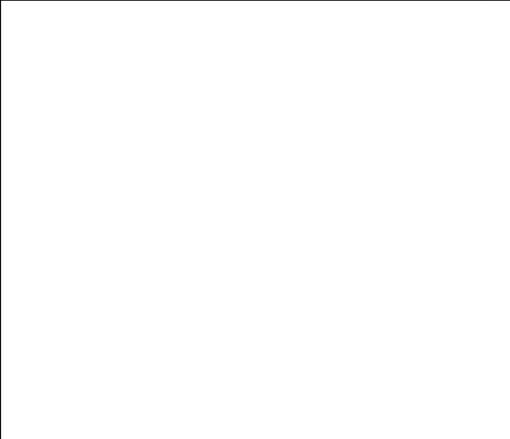
ISOMETRIC FLASHING DETAIL FOR BUILDINGS 2160 SQ. FT. OR LESS SCALE: 1 1/2" = 1'-0" 10



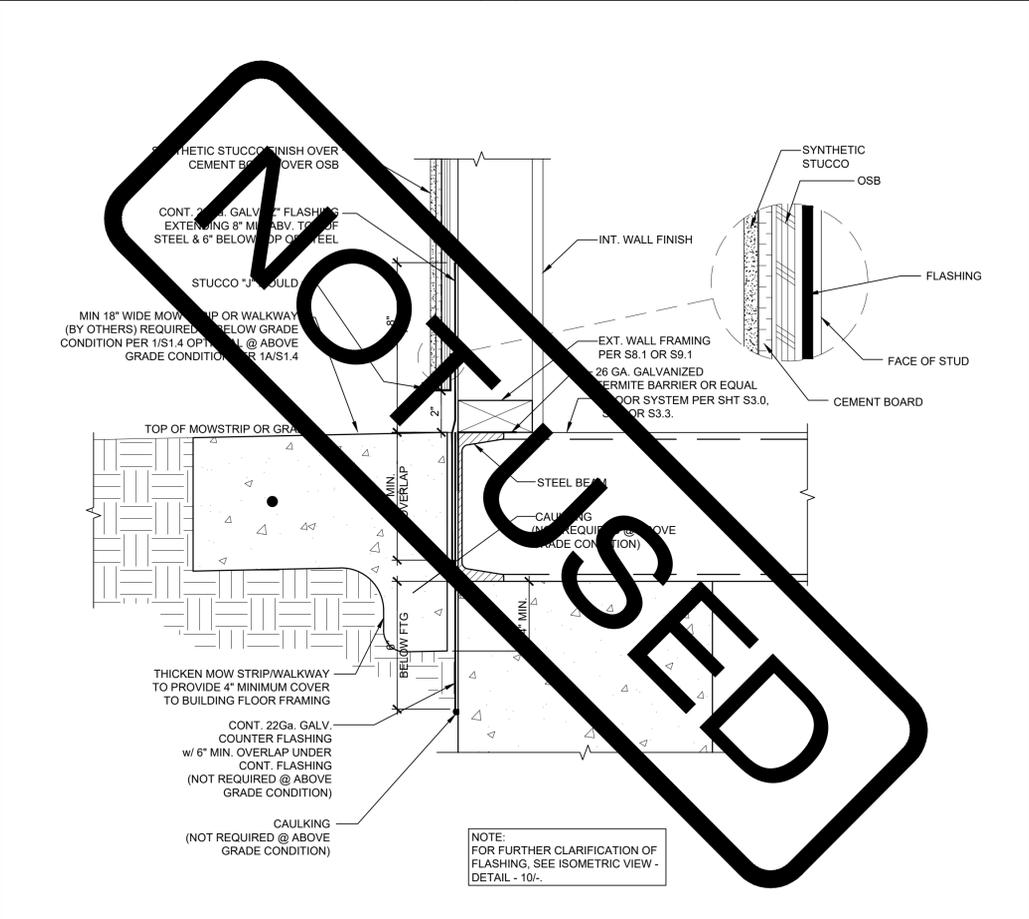
SIDING DETAIL @ ROOF BEAM SCALE: 3" = 1'-0" 11



NOT USED 12

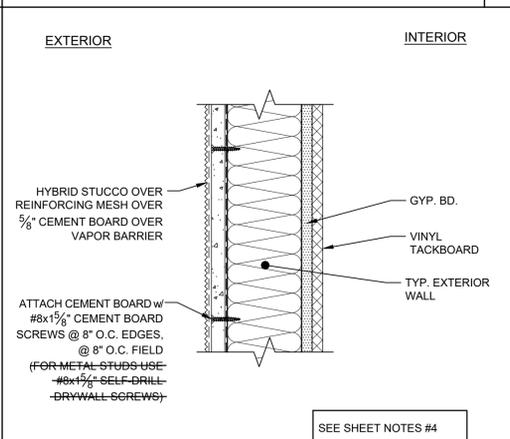


NOT USED 13

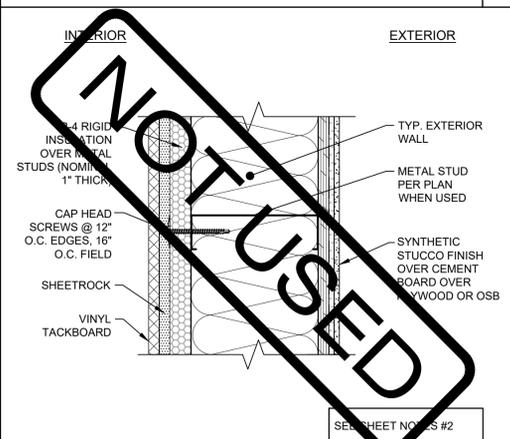


FLASHING DETAIL FOR BUILDINGS 2160 SQ. FT. OR LESS SCALE: 3" = 1'-0" 19

- SHEET NOTES**
- FOR OPTIONAL METAL STUD FRAMING, SEE S8.0 OR S9.2.
  - ADDITIONAL R-5 RIGID INSULATION REQUIRED @ METAL STUD WALLS, PER INSULATION SCHEDULE SHEET M1.7 & 18.
  - FOR FINISH OPTIONS, SEE SHEET A7.0.
  - OPTIONAL HYBRID STUCCO FINISH DOES NOT REQUIRE OSB; SEE DETAIL 17.
  - REFER TO SHEET A7.3 FOR ALL BUILDING INSULATION INSTALLATION NOT SHOWN OR NOTED ON DETAIL ON THIS SHEET.
  - FOR BUILDINGS 2160 SQ. FT. OR LESS & ALL BUILDINGS INSTALLED ON ABOVE GRADE FOUNDATIONS PER 1A/S1.4, FLASHING SHALL BE PROVIDED PER DETAILS 10 & 19.
  - FOR BUILDINGS LARGER THAN 2160 SQ. FT. INSTALLED ON BELOW GRADE FOUNDATIONS PER 1A/S1.4, FLASHING & DETERIORATION PROTECTION SHALL BE PROVIDED PER SHEET S5.7A, WHERE DETERIORATION PROTECTION IS NOT REQUIRED BY THE SHEET NOTES OF SHEET A5.7A, FLASHING SHALL BE PROVIDED BY DETAIL 10 & 19.



OPTIONAL HYBRID STUCCO FINISH SCALE: 3" = 1'-0" 17



RIGID INSULATION @ METAL STUDS SCALE: 3" = 1'-0" 18

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APP: 02-120119 INC.  
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**AMS**  
American Modular Systems  
787 Spreckels Ave., Manteca, CA 95336  
Phone (209) 825-1921 Fax (209) 825-7018  
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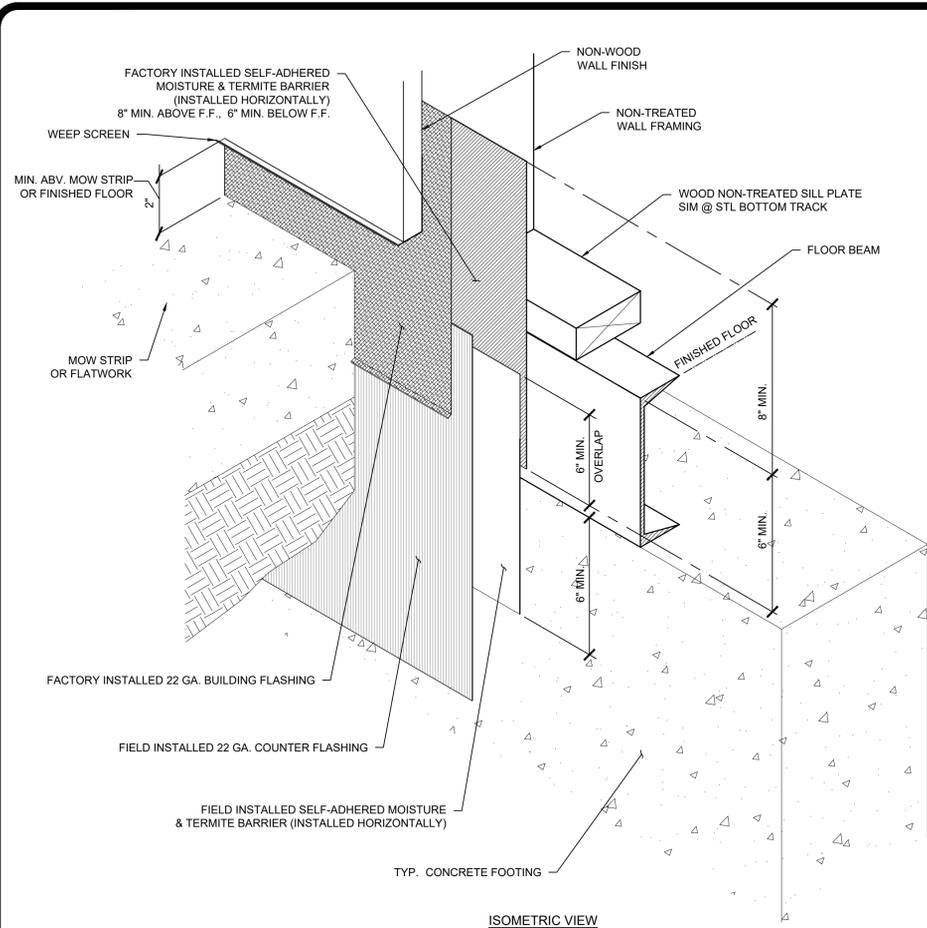
2019 CBC PRE-CHECK (PC) DOCUMENT  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.  
MANUFACTURER PROFESSIONAL OF RECORD ON PC

REGISTERED ARCHITECT  
PATRICK CANNON  
No. C12631  
Ren. 2-31-23  
STATE OF CALIFORNIA

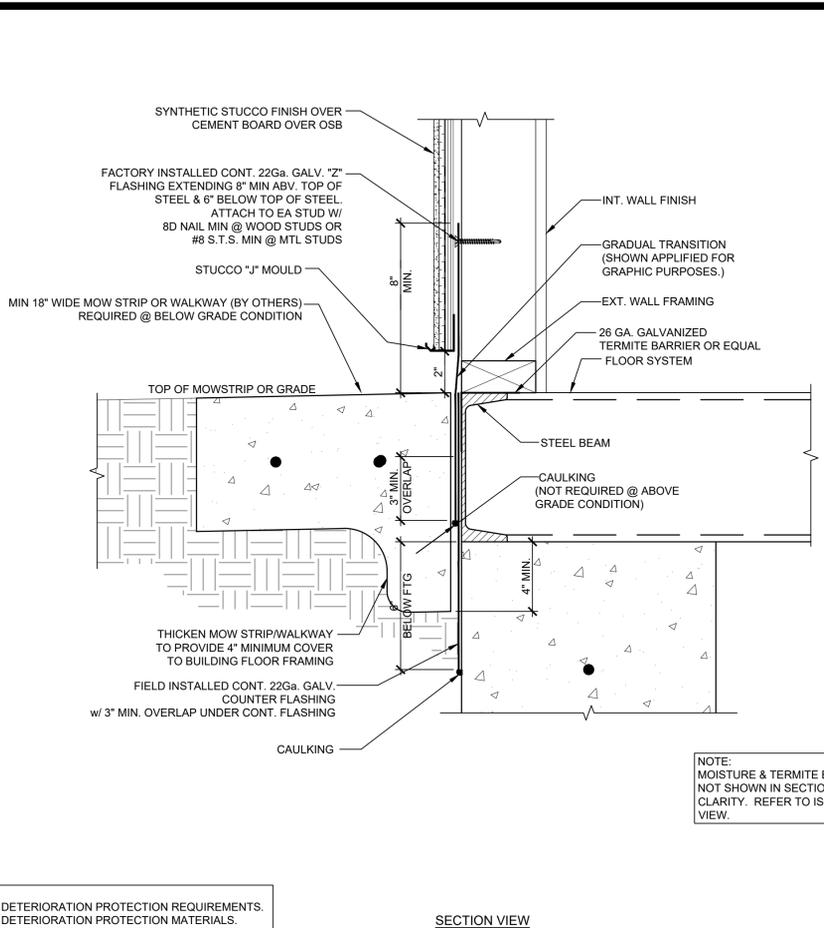
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DATE: MMDDYY  
PROJECT NO: XXXX-20  
SHEET TITLE:  
TYP. EXTERIOR DETAILS - SYNTHETIC STUCCO OPTION  
SHEET NUMBER:  
**A5.7**



NOTE:  
SEE NOTES IN DETAIL 2/- FOR DETERIORATION PROTECTION REQUIREMENTS.  
SEE NOTES IN DETAIL 7/- FOR DETERIORATION PROTECTION MATERIALS.



NOTE:  
MOISTURE & TERMITE BARRIER NOT SHOWN IN SECTION FOR CLARITY. REFER TO ISOMETRIC VIEW.

- MOISTURE AND TERMITE BARRIER INSTALLATION REQUIREMENTS**
- ALL SURFACES SHALL BE CLEAN (FREE OF DIRT, DUST, OIL AND OTHER DEBRIS) PRIOR TO APPLICATION OF THE ADHESIVE AND MEMBRANE.
  - ALL SURFACE VOIDS GREATER THAN 1/8" IN WIDTH SHALL BE FILLED WITH SEALANT PRIOR TO INSTALLATION.
  - APPLY LIQUID ADHESIVE TO ALL SURFACES WHICH WILL RECEIVE THE STEEL FLASHING.
  - CUT PIECES OF MEMBRANE TO LENGTH AS NEEDED AND APPLY TO SUBSTRATE ONCE THE LIQUID ADHESIVE HAS BECOME TACKY. IMMEDIATELY PRIOR TO MEMBRANE APPLICATION, THE INSTALLER SHALL VERIFY THAT THE ADHESIVE IS STILL TACKY TO THE TOUCH. IF NECESSARY A SECOND LAYER OF ADHESIVE SHALL BE PROVIDED.
  - INSTALL MEMBRANE IN A HORIZONTAL ORIENTATION.
  - WHERE A HORIZONTAL LAP OCCURS IN THE SELF-ADHERED BARRIER, THE JOINTS SHALL BE LAPPED 2 1/2 INCHES MINIMUM.
  - AT BUILDING CORNERS THE MEMBRANE SHALL BE WRAPPED AROUND THE CORNER AND SHALL EXTEND NO LESS THAN 6" BEYOND THE CORNER PRIOR TO LAPPING ANOTHER SHEET.
  - WHERE A MODULINE JOINT (MODLINE) OCCURS THE FACTORY INSTALLED MEMBRANE SHALL BE TERMINATED AS SHOWN ON DETAIL 4/- A FIELD INSTALLED MEMBRANE PIECE SHALL BE APPLIED FOLLOWING THE INSTALLATION OF THE MODULES ON THE FOUNDATION. THE FIELD INSTALLED MEMBRANE PIECE SHALL LAP THE FACTORY INSTALLED MEMBRANE 3" MINIMUM AT EACH END.
  - WHERE A VERTICAL LAP OCCURS THE UPPER MEMBRANE LAYER SHALL BE LAPPED OVER THE LOWER MEMBRANE LAYER 6" MINIMUM.
  - THE MEMBRANE SHALL BE ROLLED FIRMLY INTO PLACE USING HAND ROLLER.
  - APPLY MASTIC OR SEALANT TO TERMINATING EDGES AND AROUND PIPES OR OTHER PENETRATIONS.
  - WHERE THE SURFACES ARE OFFSET MORE THAN 1/8" OUT-OF-PLANE PROVIDE SEALANT OR ANOTHER STABLE MATERIAL TO TRANSITION BETWEEN THE SURFACES.
  - WHERE A HORIZONTAL LAP OCCURS IN THE GALVANIZED FLASHING THE JOINTS SHALL BE LAPPED 2 1/2" MINIMUM.
  - REFER TO DETAIL 4/- FOR MODULINE DETERIORATION PROTECTION

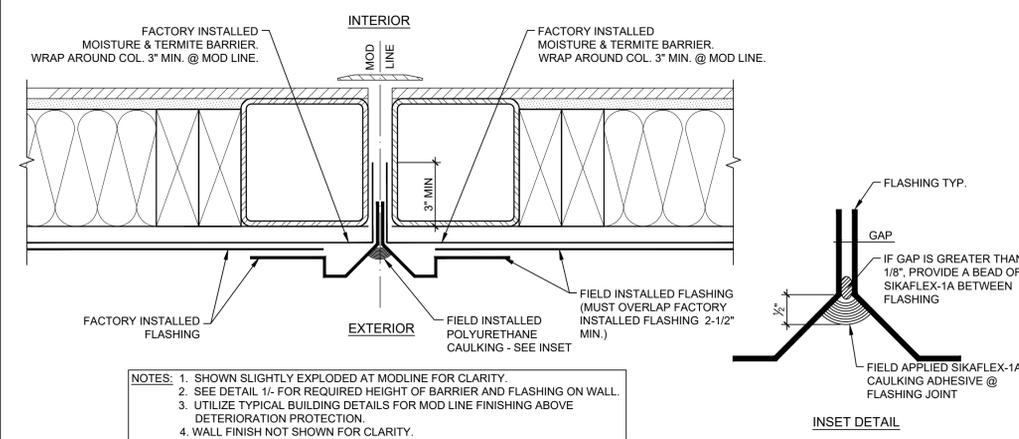
- REPAIR REQUIREMENTS**  
WHERE DAMAGE OCCURS, THE REPAIRS SHALL BE AS FOLLOWS:
1. WHERE THE DAMAGE MEASURES LESS THAN 1/2" IN ANY DIRECTION THE PUNCTURE SHALL BE SEALED WITH MASTIC.
  2. WHERE THE DAMAGE MEASURES MORE THAN 1/2", BUT LESS THAN 2", IN ANY DIRECTION A PATCH SHALL BE INSTALLED OVER THE DAMAGE USING THE SAME MEMBRANE MATERIAL. THE PATCH SHALL OVERLAP 4" MINIMUM IN ALL DIRECTIONS.
  3. WHERE THE DAMAGE MEASURES MORE THAN 2" IN ANY DIRECTION THE DAMAGED PORTION SHALL BE REMOVE AND A PIECE OF MEMBRANE SHALL BE INSTALLED. THE PATCH SHALL OVERLAP 4" MINIMUM IN ALL DIRECTIONS.

**INSPECTION REQUIREMENTS**  
THE IN-PLANT INSPECTOR SHALL OBSERVE THE INSTALLATION OF FACTORY INSTALLED PORTION OF THE MEMBRANE FLASHING. THE ADHESIVE AND MEMBRANE SHALL BE INSTALLED IN ACCORDANCE WITH THESE INSTALLATION INSTRUCTIONS. ALL OVERLAPS SHALL BE AS INDICATED WITHIN THIS DRAWING PACKAGE. THE MEMBRANE SHALL BE CONTINUOUS UP THE WALL TO A MINIMUM HEIGHT ABOVE FINISH FLOOR AS INDICATED WITHIN THIS DRAWING PACKAGE.

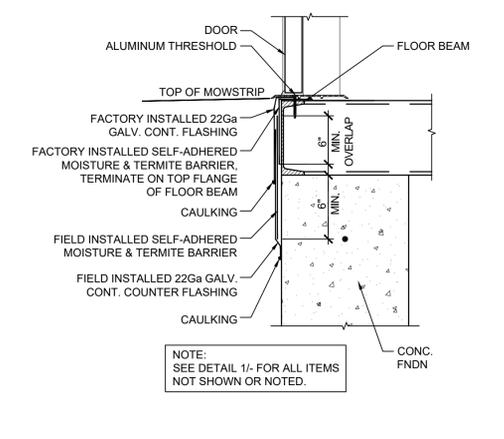
THE ON-SITE INSPECTOR SHALL OBSERVE THE INSTALLATION OF THE SITE INSTALLED PORTION OF THE MEMBRANE FLASHING. THE FACTORY INSTALLED MEMBRANE SHOULD BE INVESTIGATED TO DETERMINE IF ANY DAMAGE OCCURRED DURING MODULE SHIPMENT/INSTALLATION PRIOR TO PROCEEDING WITH THE SITE INSTALLED MEMBRANE PLACEMENT. THE ADHESIVE AND MEMBRANE SHALL BE INSTALLED IN ACCORDANCE WITH THESE INSTALLATION INSTRUCTIONS. ALL OVERLAPS SHALL BE AS INDICATED WITHIN THIS DRAWING PACKAGE. THE MEMBRANE SHALL BE LAPPED ONTO THE FOUNDATION WALL AS INDICATED WITHIN THIS DRAWING PACKAGE. THE GALVANIZED FLASHING SHALL BE INSTALLED OVER THE MEMBRANE. THE GALVANIZED FLASHING SHALL BE CONTINUOUS UP THE WALL TO A MINIMUM HEIGHT ABOVE FINISH FLOOR AS INDICATED WITHIN THIS DRAWING PACKAGE AND SHALL CONTINUE BELOW THE BOTTOM OF THE FLATWORK OR MOW STRIP AS INDICATED WITHIN THIS DRAWING PACKAGE.

DETERIORATION PROTECTION

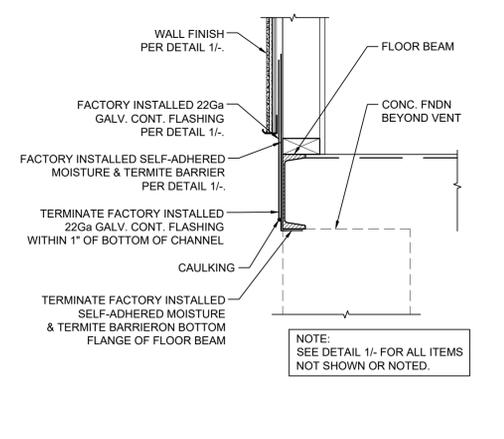
DETERIORATION PROTECTION REQUIREMENTS



- NOTES:  
1. SHOWN SLIGHTLY EXPLODED AT MODLINE FOR CLARITY.  
2. SEE DETAIL 1/- FOR REQUIRED HEIGHT OF BARRIER AND FLASHING ON WALL.  
3. UTILIZE TYPICAL BUILDING DETAILS FOR MOD LINE FINISHING ABOVE DETERIORATION PROTECTION.  
4. WALL FINISH NOT SHOWN FOR CLARITY.



NOTE:  
SEE DETAIL 1/- FOR ALL ITEMS NOT SHOWN OR NOTED.



NOTE:  
SEE DETAIL 1/- FOR ALL ITEMS NOT SHOWN OR NOTED.

- MATERIALS USED FOR DETERIORATION PROTECTION SHALL BE AS FOLLOWS:
1. FACTORY INSTALLED SELF-ADHERED TERMITE BARRIER SHALL BE "POLYGUARD TERM" FLASHING MOISTURE/TERMITE BARRIER WITH FOIL FACE UV BARRIER.
  2. FIELD INSTALLED SELF-ADHERED TERMITE BARRIER SHALL BE "POLYGUARD TERM" WATER TERMITE/BARRIER FOR CONCRETE FOUNDATIONS.
  3. LIQUID ADHESIVE SHALL BE "POLYGUARD" 650WB.
  4. ALL FLASHING TO BE 22 GA FLASHING G60 COATING MIN., TYP.

DETERIORATION PROTECTION DETAIL @ MOD LINE

SCALE: 3" = 1'-0"

DETERIORATION PROTECTION @ THRESHOLD

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

DETERIORATION PROTECTION @ VENT ACCESS

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

DETERIORATION PROTECTION MATERIALS

1. DETERIORATION DETAILS SHOWN ON THIS SHEET ARE NOT REQUIRED FOR BUILDINGS 2160 SQ. FT. OR LESS.
2. DETERIORATION DETAILS SHOWN ON THIS SHEET ARE ONLY REQUIRED FOR BUILDINGS INSTALLED WITH BELOW GRADE FOUNDATIONS.
3. DETERIORATION DETAILS SHOWN ON THIS SHEET ARE NOT REQUIRED FOR BUILDINGS WITH CONCRETE FLOORS & MTL STUDS WHERE ALL WALL FINISHES AND BACKING ARE P.T. OR NON-WOOD MATERIAL.
4. THE DETERIORATION DETAILS SHOWN ON THIS SHEET SHALL BE USED AT THE BUILDINGS PERIMETER & SHALL EXTEND VERTICALLY UP THE WALL TO THE MIN. HEIGHT REQUIRED PER DETAIL 1/- THE TYPICAL BUILDING DETAILS FOR MOD LINE FINISHING MAY BE USED ABOVE THAT POINT.

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APP: 02-120119 INC:  
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DATE: 08/23/2022

**AMS**  
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2019 CBC PRE-CHECK (PC) DOCUMENT  
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REGISTERED ARCHITECT  
PATRICK C. JONES  
No. C12631  
Ren. 3-31-23  
STATE OF CALIFORNIA

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PROJECT NO: XXXX-20  
SHEET TITLE:

DETERIORATION DETAILS  
GREATER THAN 2160 SQ. FT.  
- SYNTHETIC STUCCO OPTION

SHEET NUMBER:

**A5.7A**

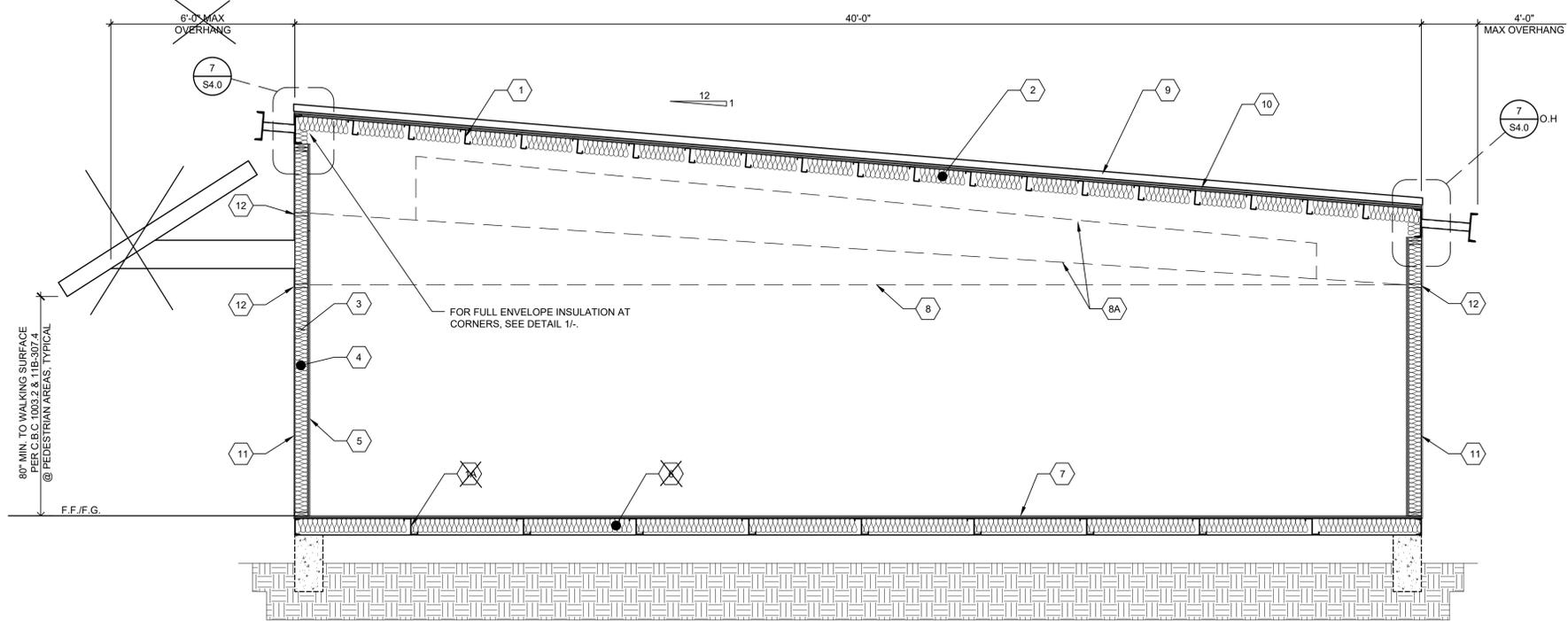
NOT USED

NOT USED

NOT USED

SHEET NOTES





TYP. LONGITUDINAL SECTION-MONO/DUAL PITCH

SCALE: 3/8"=1'-0"

- 1 ROOF PURLINS PER ROOF FRAMING PLAN
- 1A FLOOR JOISTS PER FLOOR FRAMING PLAN
- 2 BATT ROOF INSULATION PER SHEET M1.7
- 3 WALL FRAMING PER SHEETS S8.0 OR S9.0
- 4 WALL INSULATION PER SHEET M1.7
- 5 VINYL FABRIC OVER TACKABLE BRACING PANELS
- 6 BATT FLOOR INSULATION PER SHEET M1.7 (PLYWOOD FLOOR ONLY)
- 7 PLYWOOD FLOOR PER SHEET S3.0 OR CONCRETE FLOOR PER SHEETS S3.1 - S3.3
- 8 SUSPENDED T-BAR CEILING PER M1.0
- 8A OPTIONAL PITCHED SUSPENDED T-BAR CEILING
- 9 FINISHED ROOFING PER ROOF PLAN & ROOF FRAMING PLAN
- 10 RIGID ROOF INSULATION PER SHEET M1.7 OVER ROOF SHEATHING
- 11 EXTERIOR WALL FINISH PER EXTERIOR ELEVATIONS
- 12 SOLID BLOCKING @ CEILING LEVEL PER CBC 718.2

KEY NOTES

- NOTES:
- TOTAL BUILDING WIDTH INCLUDES 1/4" PER MODULE CONSTRUCTION TOLERANCE PER FOUNDATION SHEETS S1.1, S1.2 & S1.3

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No. C12631  
Ren. 3-31-23  
STATE OF CALIFORNIA

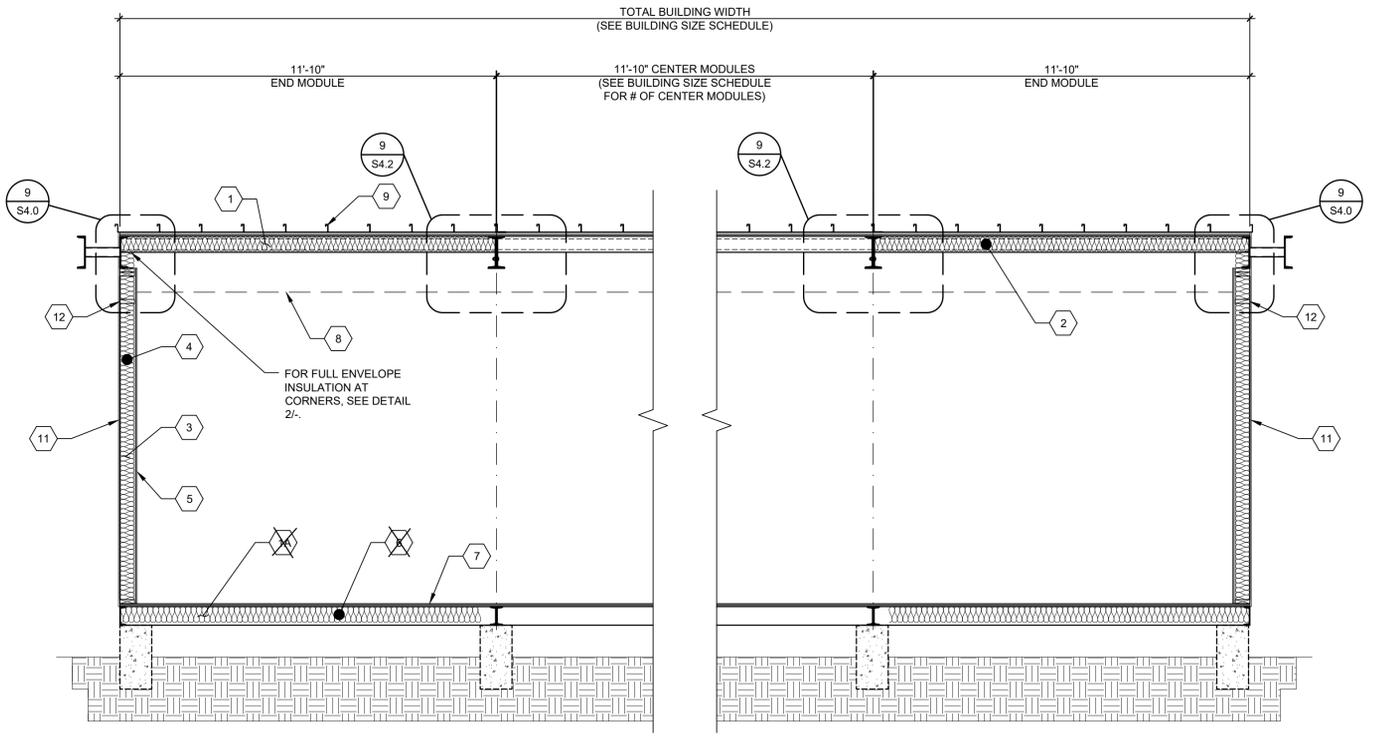
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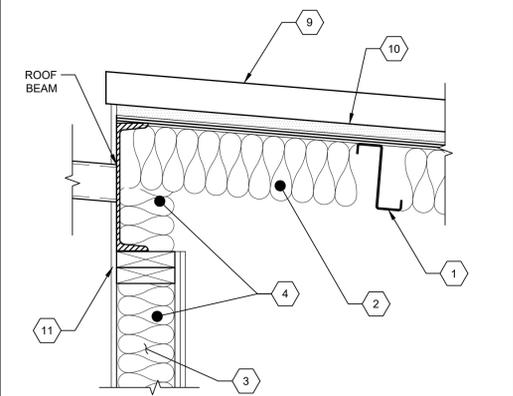
SHEET TITLE:  
**TYPICAL LONGITUDINAL AND TRANSVERSE FRAME SECTIONS**

SHEET NUMBER:  
**A7.3**

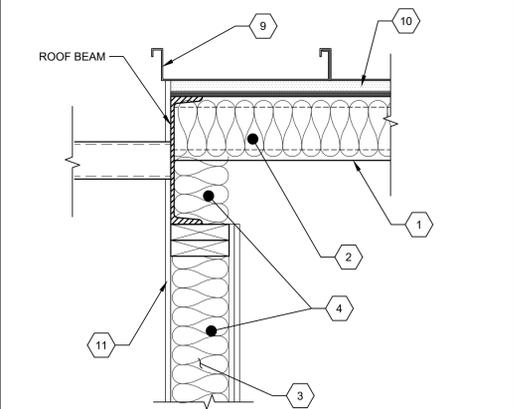


TYP. TRANSVERSE SECTION-MONO/DUAL PITCH

SCALE: 3/8"=1'-0"



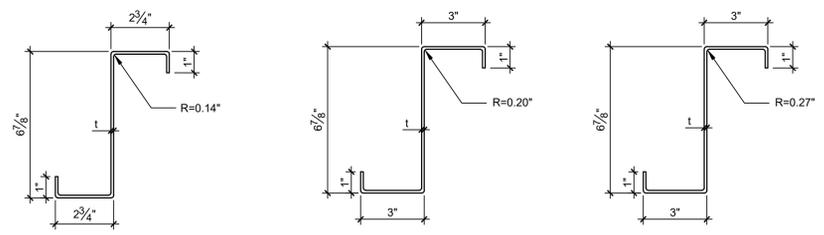
INSULATION CORNER DET. SCALE: 1-1/2"=1'-0"



INSULATION CORNER DET. SCALE: 1-1/2"=1'-0"

B

NOT USED	1 NOT USED	2 NOT USED	3 LIGHT GAUGE FLOOR JOIST PROPERTIES	5
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**6 7/8" x 2 3/4" x 14ga FLOOR JOIST**  
ASTM A1011 SS, GRADE 45  
Fy = 45 ksi

A = 0.98 IN<sup>2</sup>  
Sx = 2.10 IN<sup>3</sup>  
Ix = 7.22 IN<sup>4</sup>  
t = 0.0677 IN MIN.  
(0.0713 IN DESIGN)

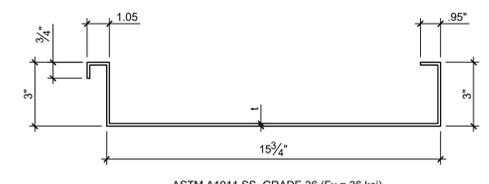
**6 7/8" x 3" x 12ga FLOOR JOIST**  
ASTM A1011 SS, GRADE 45  
Fy = 45 ksi

A = 1.43 IN<sup>2</sup>  
Sx = 3.06 IN<sup>3</sup>  
Ix = 10.54 IN<sup>4</sup>  
t = 0.0966 IN MIN.  
(0.1017 IN DESIGN)

**6 7/8" x 3" x 10ga FLOOR JOIST**  
ASTM A1011 SS, GRADE 50  
Fy = 50 ksi

A = 1.85 IN<sup>2</sup>  
Sx = 3.90 IN<sup>3</sup>  
Ix = 13.42 IN<sup>4</sup>  
t = 0.1278 IN MIN.  
(0.1345 IN DESIGN)

22 GA ROOF PAN PROPERTIES	7 ALTERNATE 10 GA ROOF BEAM PROPERTIES	8 LIGHT GAUGE ROOF PURLIN PROPERTIES	10	10
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ASTM A1011 SS, GRADE 36 (Fy = 36 ksi)  
OR ASTM A653 SS, GRADE 37 (Fy = 37 ksi)

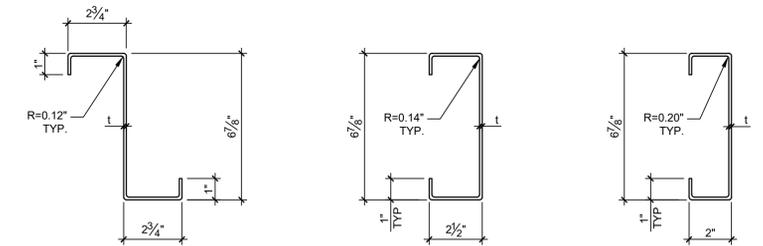
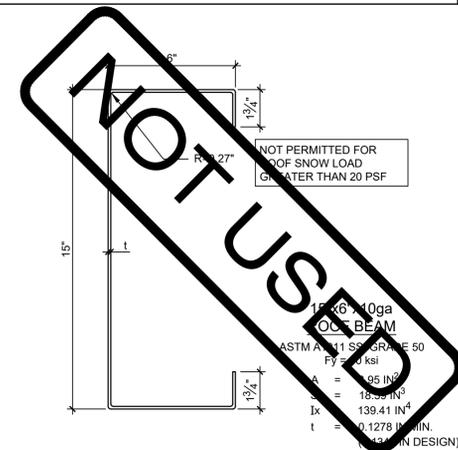
**EFFECTIVE SECTION PROPERTIES**

w/ GALVANIZATION  
I=0.0296 IN<sup>4</sup>  
I<sub>x</sub> = 0.253 IN<sup>3</sup>  
I<sub>y</sub> = 1.109 IN<sup>3</sup>  
I<sub>x</sub> = 0.618 IN<sup>4</sup>

w/o GALVANIZATION  
I=0.0269 IN<sup>4</sup>  
I<sub>x</sub> = 0.238 IN<sup>3</sup>  
I<sub>y</sub> = 1.048 IN<sup>3</sup>  
I<sub>x</sub> = 0.583 IN<sup>4</sup>

**GROSS SECTION PROPERTIES**

A = 0.682 IN<sup>2</sup>  
Sx(t) = 0.260 IN<sup>3</sup>  
Sx(b) = 0.226 IN<sup>3</sup>  
Ix = 0.363 IN<sup>4</sup>  
Ae = 0.180 IN<sup>2</sup>  
Sx(t) = 0.260 IN<sup>3</sup>  
Sx(b) = 0.226 IN<sup>3</sup>  
Ix = 0.363 IN<sup>4</sup>  
Ix = 0.784 IN<sup>4</sup>



**6 7/8" x 2 3/4" x 16ga 'Z' TYPICAL ROOF PURLIN**  
ASTM A1011 SS, GRADE 50  
Fy = 50 ksi

A = 0.79 IN<sup>2</sup>  
Sx = 1.69 IN<sup>3</sup>  
Ix = 5.82 IN<sup>4</sup>  
t = 0.0538 IN MIN.  
(0.0566 IN DESIGN)

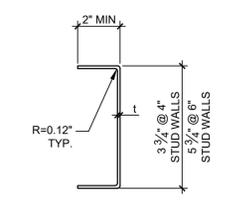
**6 7/8" x 2 1/2" x 14ga 'C' ALTERNATE ROOF PURLIN**  
ASTM A1011 SS, GRADE 45  
Fy = 45 ksi

A = 0.95 IN<sup>2</sup>  
Sx = 1.98 IN<sup>3</sup>  
Ix = 6.81 IN<sup>4</sup>  
t = 0.0677 IN MIN.  
(0.0713 IN DESIGN)

**6 7/8" x 2" x 12ga 'C' ALTERNATE ROOF PURLIN**  
ASTM A1011 SS, GRADE 45  
Fy = 45 ksi

A = 1.22 IN<sup>2</sup>  
Sx = 2.39 IN<sup>3</sup>  
Ix = 8.20 IN<sup>4</sup>  
t = 0.0966 IN MIN.  
(0.1017 IN DESIGN)

TYP 16 GA SLIP TRACKS @ INTERIOR WOOD STUD PARTITION WALLS	14 GA INTERIOR NANAWALL SLIP TRACK @ WOOD STUD WALL	12 NOT USED	13 NOT USED	14 NOT USED
--	---	-------------	-------------	-------------



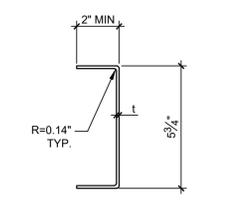
**TYP 16 GA SLIP TRACKS @ INTERIOR WOOD STUD PARTITION WALLS**  
ASTM A1011 SS, GRADE 45  
Fy = 45 ksi

**3-3/4" PROP**

A = 0.425 IN<sup>2</sup>  
Sx = 0.519 IN<sup>3</sup>  
Ix = 0.974 IN<sup>4</sup>  
t = 0.0538" IN MIN.  
(0.0566" DESIGN)

**5-3/4" PROP**

A = 0.538 IN<sup>2</sup>  
Sx = 0.911 IN<sup>3</sup>  
Ix = 2.620 IN<sup>4</sup>  
t = 0.0538" IN MIN.  
(0.0566" DESIGN)



**14 GA INTERIOR NANAWALL SLIP TRACK @ WOOD STUD WALL**  
ASTM A1011 SS, GRADE 45  
Fy = 45 ksi

A = 0.674 IN<sup>2</sup>  
Sx = 1.133 IN<sup>3</sup>  
Ix = 3.258 IN<sup>4</sup>  
t = 0.0677" IN MIN.  
(0.0713" DESIGN)

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-120119 INC.  
REVIEWED FOR  
SS  FLS  ACS   
DATE: 08/23/2022

**AMS**  
American Modular Systems  
787 Spreckels Ave., Manteca, CA 95336  
Phone (209) 825-1921 Fax (209) 825-7018  
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**GEN7**  
by AMS

SITE SPECIFIC PROJECT NAME

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DIV. OF THE STATE ARCHITECT  
APP: 02-118326-PC  
REVIEWED FOR  
SS  FLS  ACS  CG   
DATE: 07/22/2021

2019 CBC PRE-CHECK (PC) DOCUMENT  
(A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.)  
MANUFACTURER PROFESSIONAL OF RECORD ON PC

**Patricia Cannon**  
LICENSED ARCHITECT  
No. C12631  
Ren. 2-31-23  
STATE OF CALIFORNIA

**Robert J. Gones**  
REGISTERED PROFESSIONAL ENGINEER  
No. 6322  
STATE OF CALIFORNIA

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REVISIONS

DRAWN BY: \_\_\_\_\_  
SCALE: AS NOTED  
DATE: MM/DD/YY  
PROJECT NO: XXXX-20  
SHEET TITLE:  
**LIGHT GAUGE STEEL MEMBER PROPERTIES**  
SHEET NUMBER:  
**S0.0**

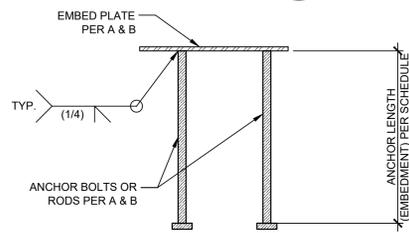
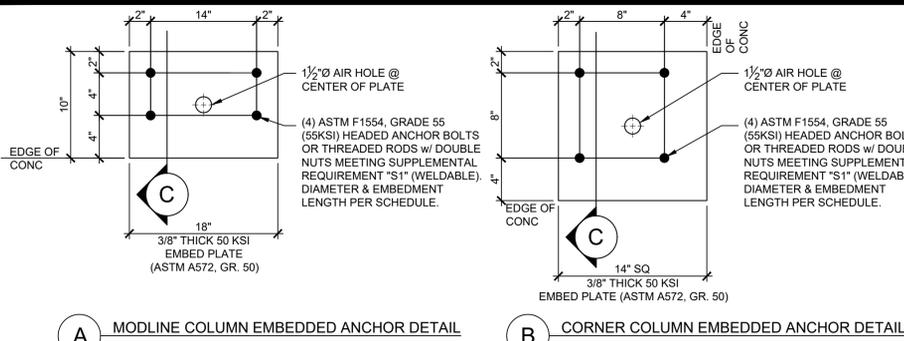
NOT USED	16 NOT USED	17 NOT USED	18 NOT USED	19 SHEET NOTES
----------	-------------	-------------	-------------	----------------

- THE MATERIAL THICKNESS OF LIGHT GAUGE STRUCTURAL MEMBERS, IN THEIR END-USE, SHALL MEET OR EXCEED THE MINIMUM BASE METAL THICKNESS SPECIFIED ON SHEET S0.0 THE MATERIAL GAGE DESIGNATION IN THE PLAN SHALL BE USED AS REFERENCE ONLY.
- UNLESS NOTED OTHERWISE, ALL SECTION PROPERTIES ARE GROSS SECTION PROPERTIES.
- LIGHT GAUGE STRUCTURAL MEMBERS TO BE FABRICATED FROM HOT ROLLED SHEETS WITH RUST INHIBITIVE COATING. SEE SHEET N2.0, "LIGHT GAUGE METAL STUDS & COLD FORMED STEEL", FOR ADDITIONAL INFORMATION.

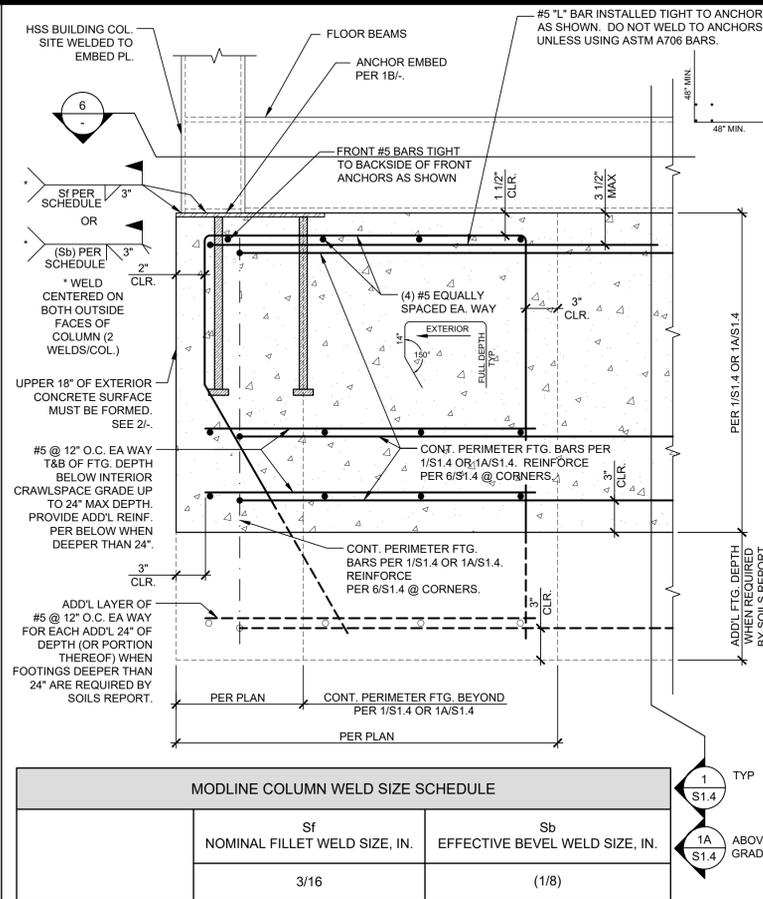
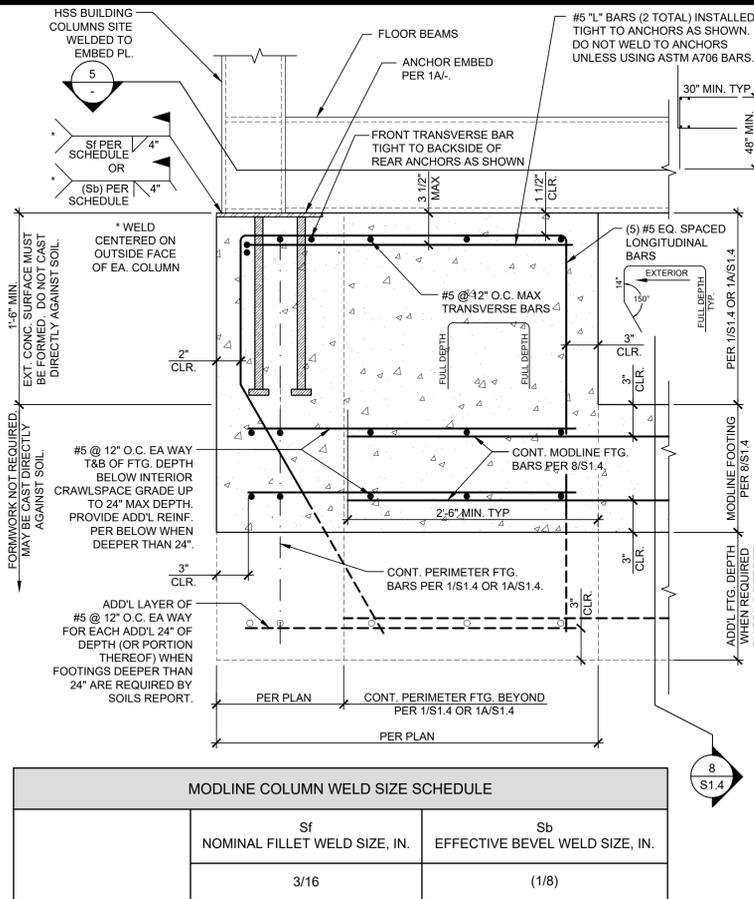








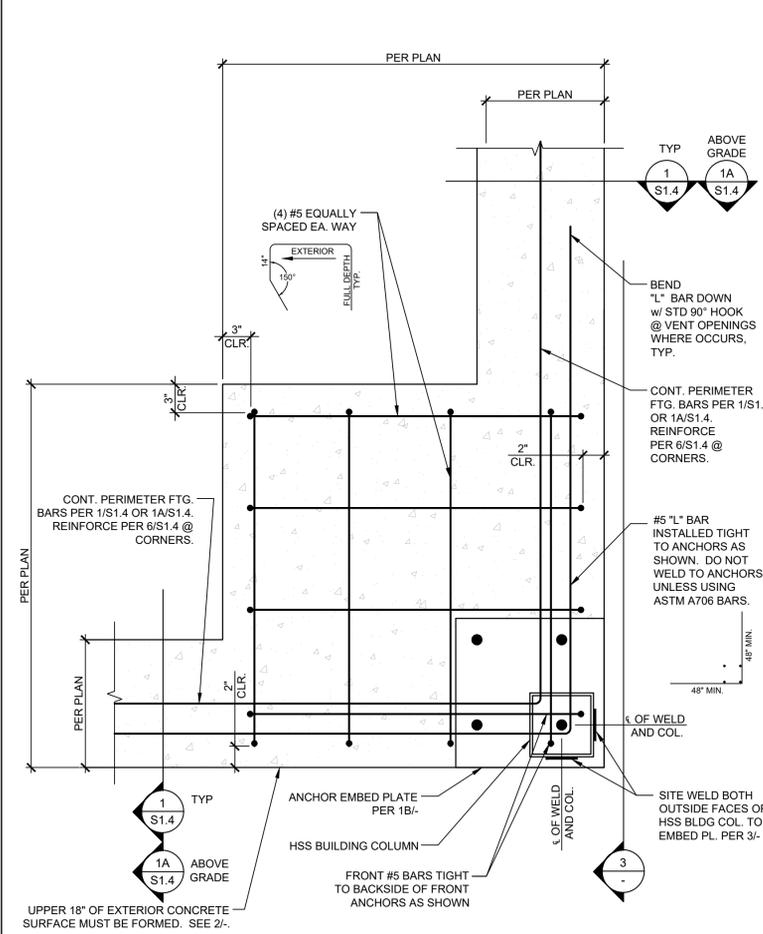
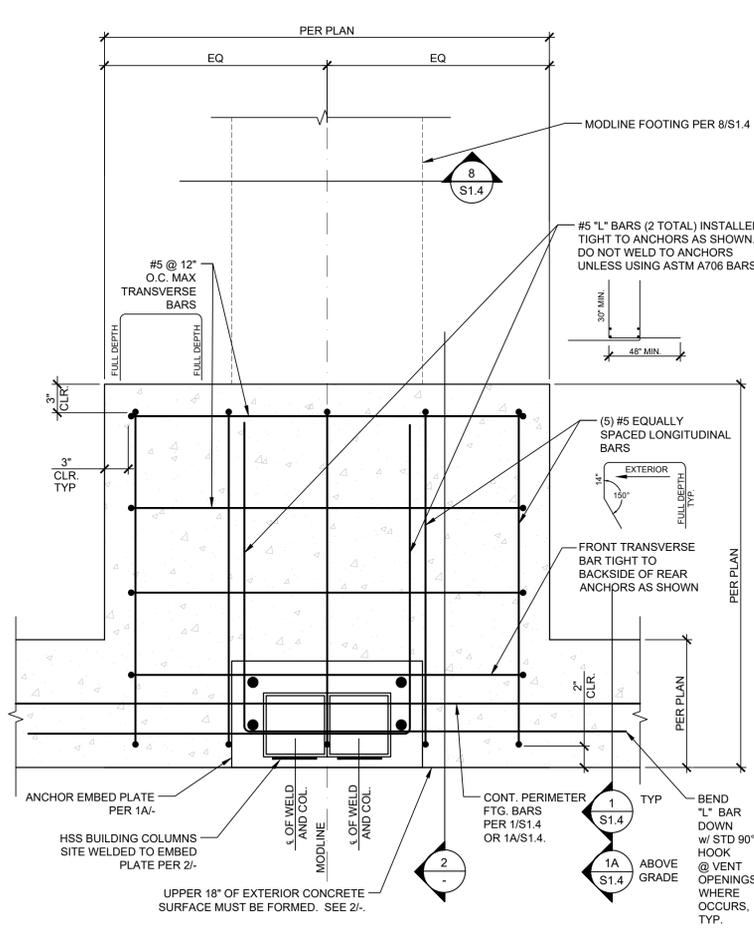
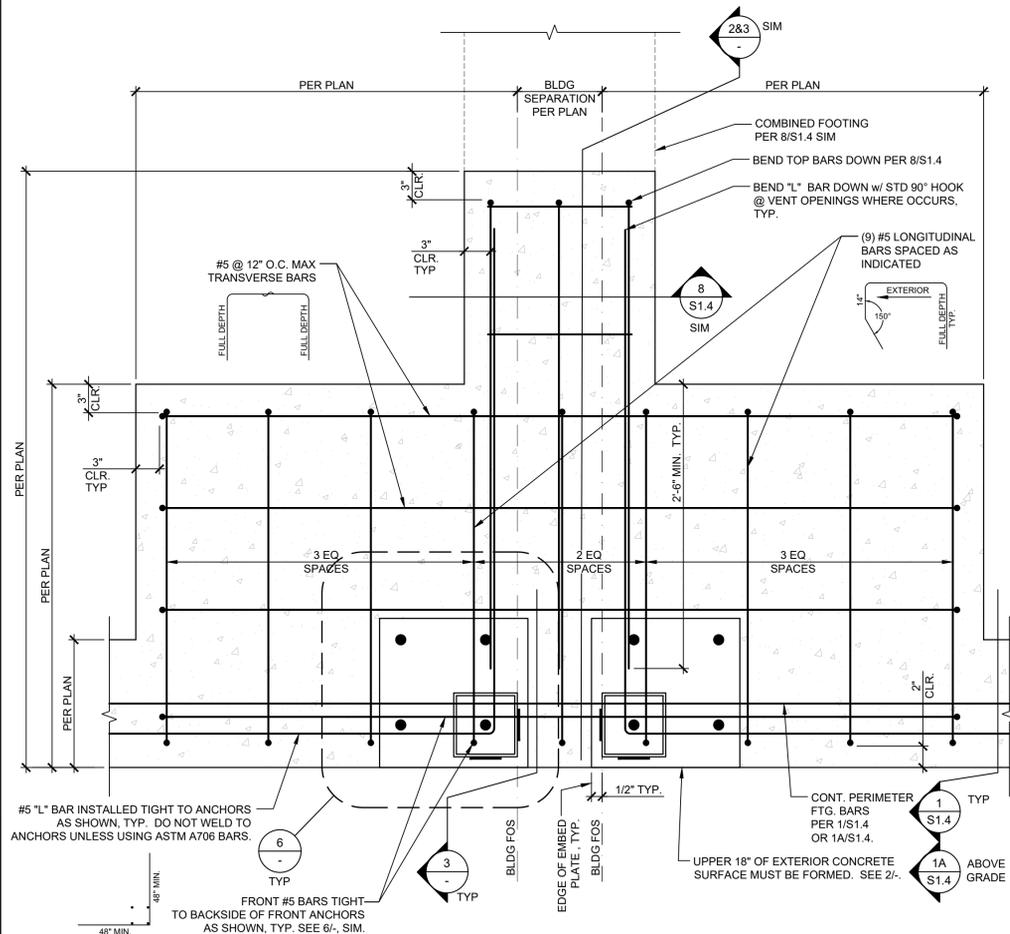
	FOUNDATION EMBED ANCHOR SCHEDULE			
	MODLINE COLUMN EMBED ANCHOR		CORNER COLUMN EMBED ANCHOR	
	ANCHOR DIAMETER	ANCHOR LENGTH (EMBEDMENT)	ANCHOR DIAMETER	ANCHOR LENGTH (EMBEDMENT)
☐ WOOD FLOOR	3/4"	10"	3/4"	16"
☒ CONC FLOOR	7/8"	12"	3/4"	18"



FOUNDATION ANCHORAGE EMBED DETAILS SCALE: 1-1/2" = 1'-0" 1

MODLINE COLUMN FOOTING & ANCHORAGE SECTION SCALE: 1-1/2" = 1'-0" 2

CORNER COLUMN FOOTING & ANCHORAGE SECTION SCALE: 1-1/2" = 1'-0" 3



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PRE-CHECKED SET NAME  
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 (LOW SEISMIC)  
**GEN7**  
 by AMS

SITE SPECIFIC PROJECT NAME

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 APP: 02-18326 PC  
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 DATE: 07/22/2021

2019 CBC PRE-CHECK (PC) DOCUMENT  
 A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

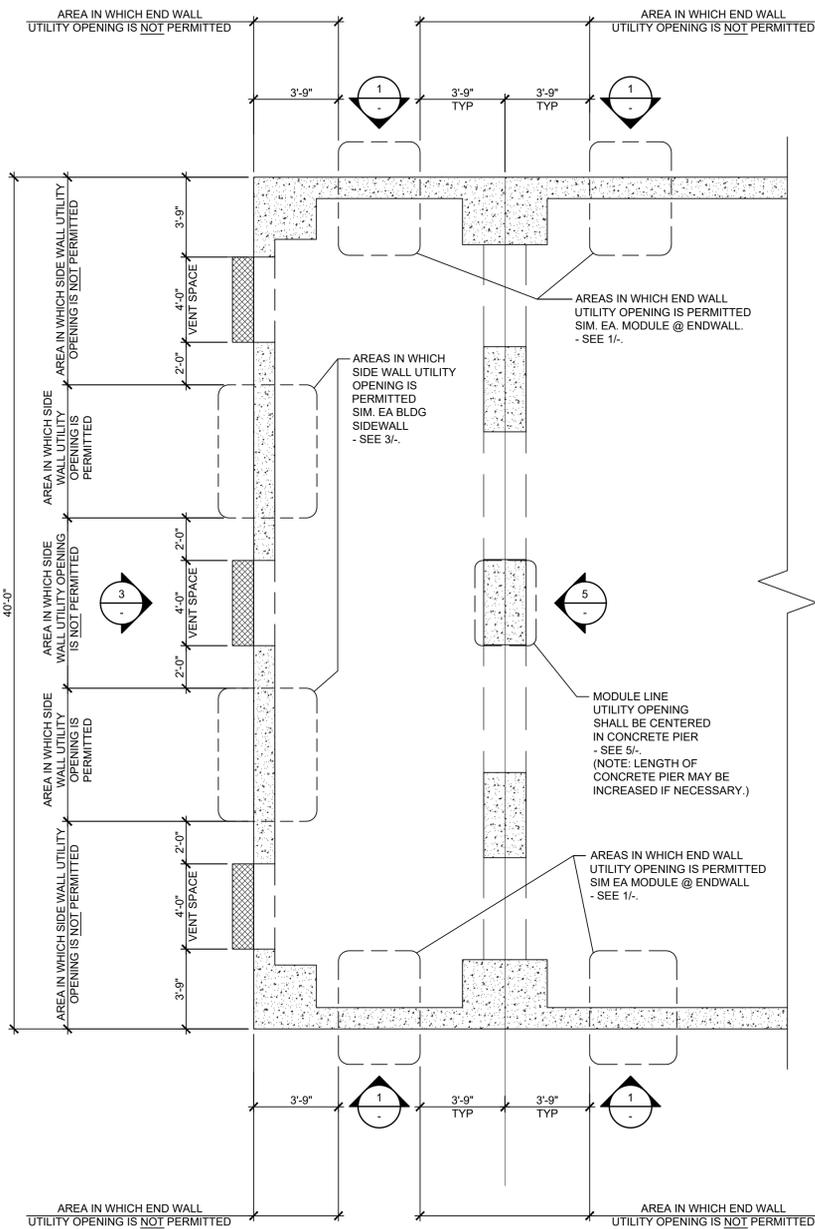
**Robert J. Gones**  
 LICENSED ARCHITECT  
 No. C12631  
 Ren. 3-31-23  
 STATE OF CALIFORNIA

**Robert J. Gones**  
 REGISTERED PROFESSIONAL ENGINEER  
 No. 6322  
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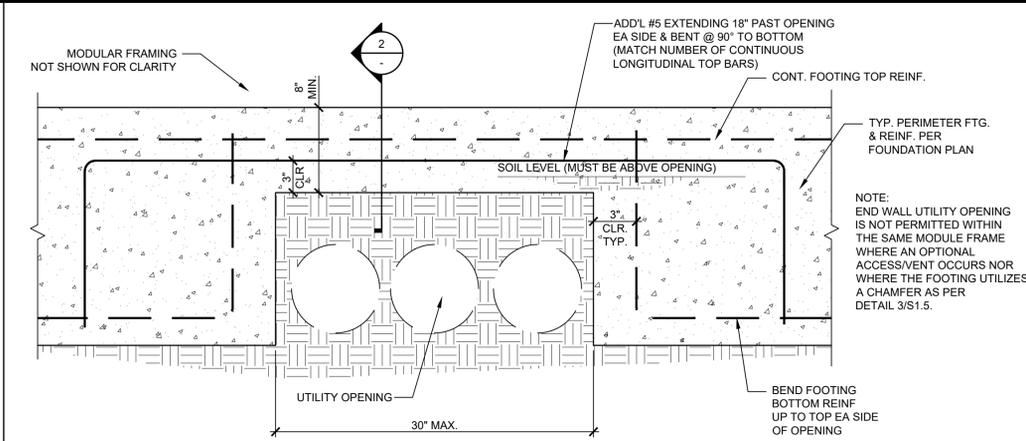
REVISIONS

DRAWN BY: AS NOTED  
 SCALE: AS NOTED  
 DATE: MMDDYY  
 PROJECT NO: XXXX-20  
 SHEET TITLE: FOUNDATION ANCHORAGE DETAILS  
 SHEET NUMBER: S1.6



OPTIONAL UTILITY OPENINGS PLAN

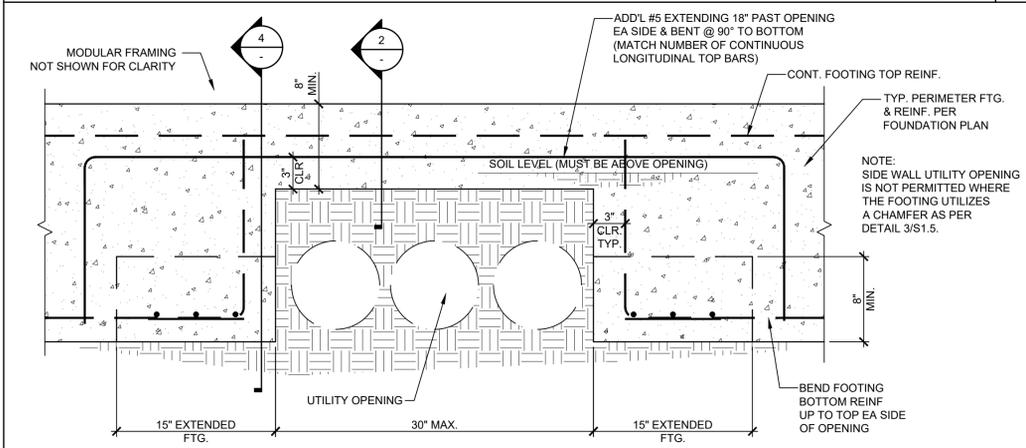
SCALE: 1/4"=1'-0"



OPTIONAL UTILITY OPENINGS IN END WALL FOOTINGS

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

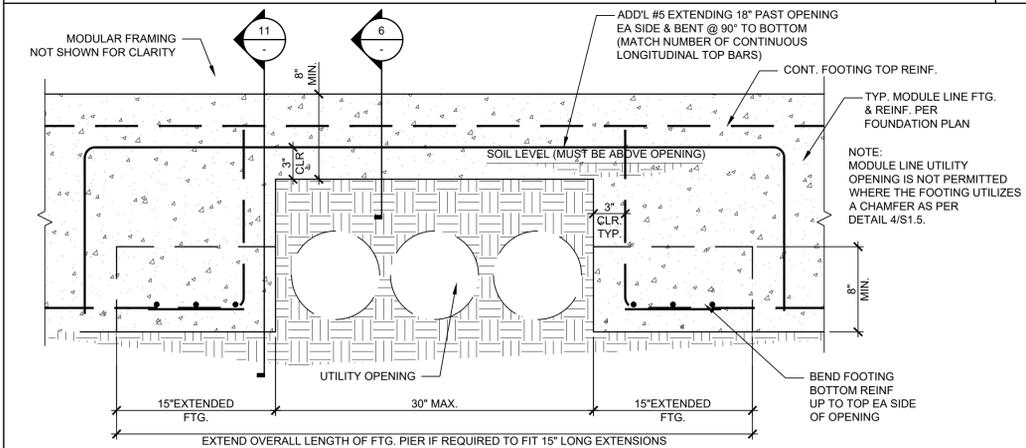
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OPTIONAL UTILITY OPENINGS IN SIDE WALL FOOTINGS

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

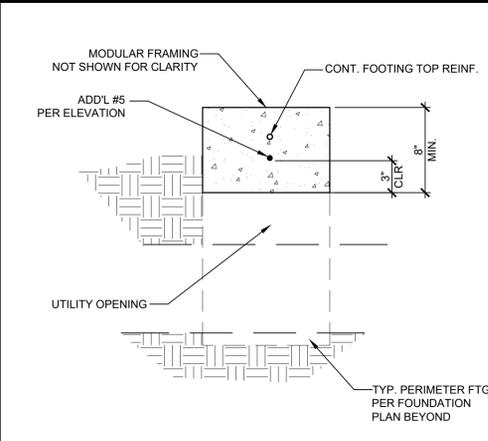
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OPTIONAL UTILITY OPENINGS IN MODULE LINE FOOTINGS

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

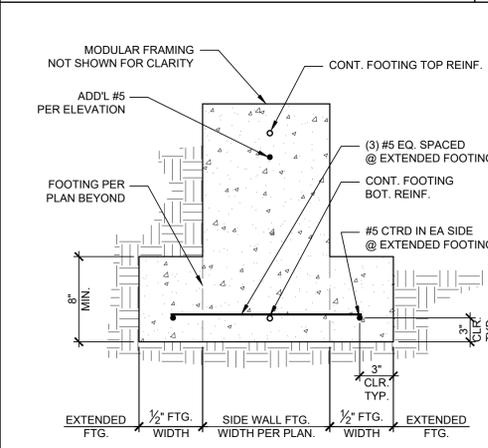
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DETAIL

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

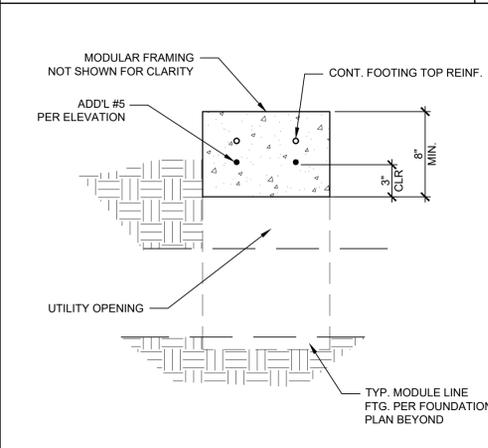
2



DETAIL

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

4



DETAIL

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

6

NOT USED

7

NOT USED

8

NOT USED

9

NOT USED

DETAIL

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

11

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DATE: 08/23/2022

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**GEN7**  
by AMS

SITE SPECIFIC PROJECT NAME

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DIV. OF THE STATE ARCHITECT  
APP: 02-118326 PC  
REVIEWED FOR  
SS  FLS  ACS  CG   
DATE: 07/22/2021

2019 CBC PRE-CHECK (PC) DOCUMENT  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.  
MANUFACTURER PROFESSIONAL OF RECORD ON PC

*Robert J. Jones*  
LICENSED ARCHITECT  
No. C12631  
Ren. 3-31-23  
STATE OF CALIFORNIA

*Robert J. Jones*  
REGISTERED PROFESSIONAL ENGINEER  
No. 6322  
STATE OF CALIFORNIA

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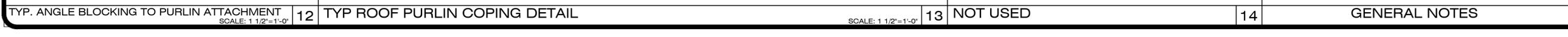
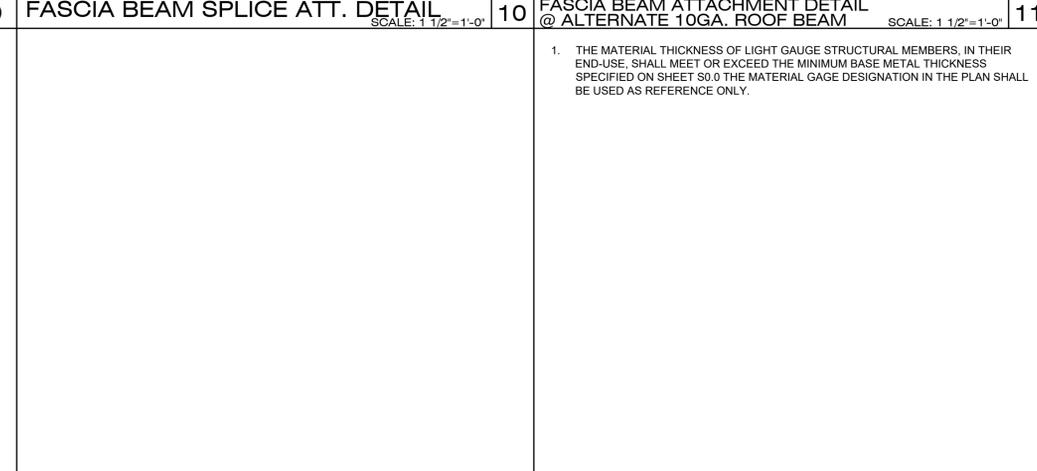
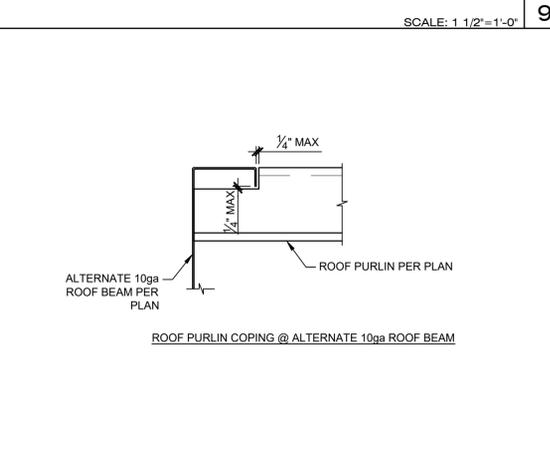
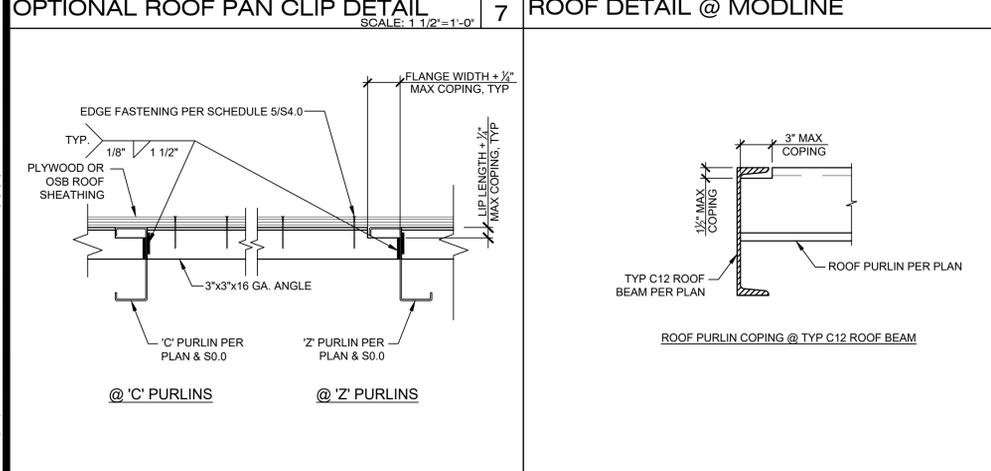
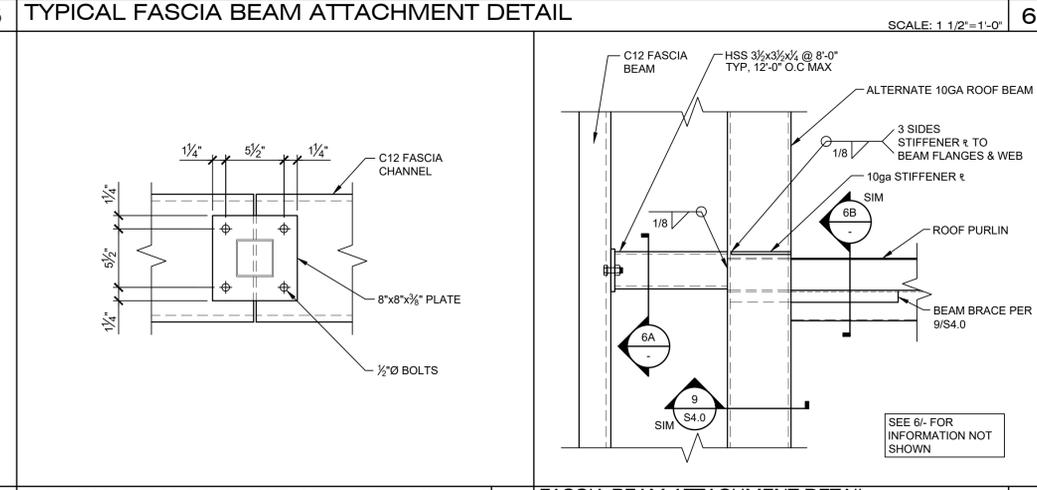
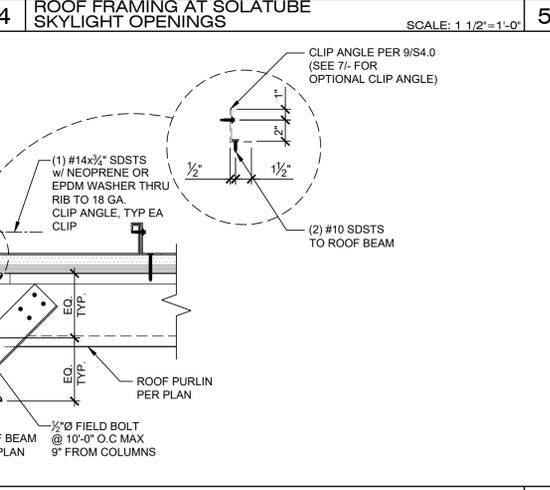
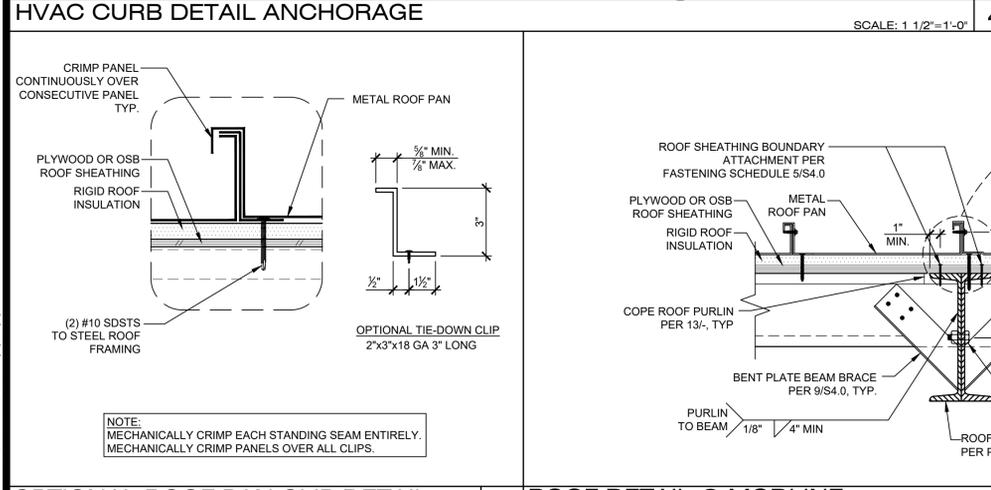
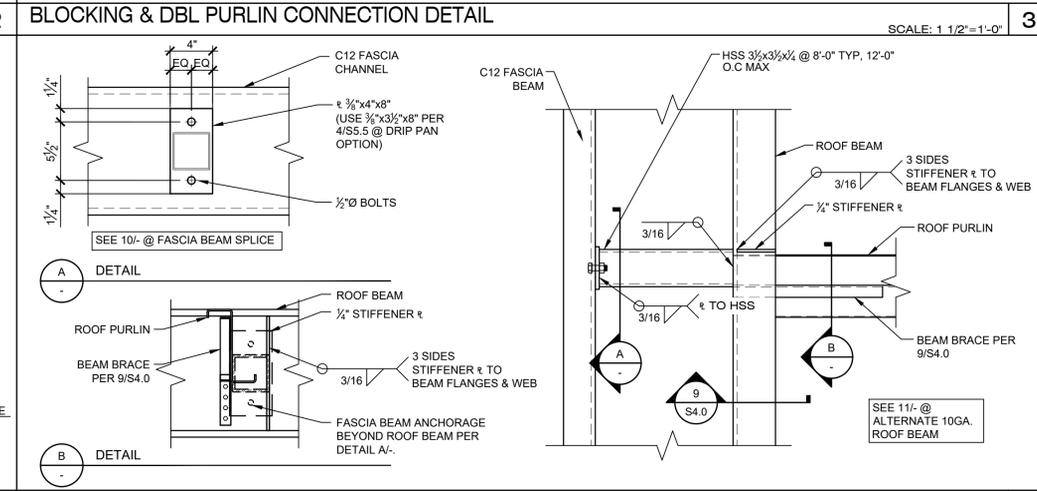
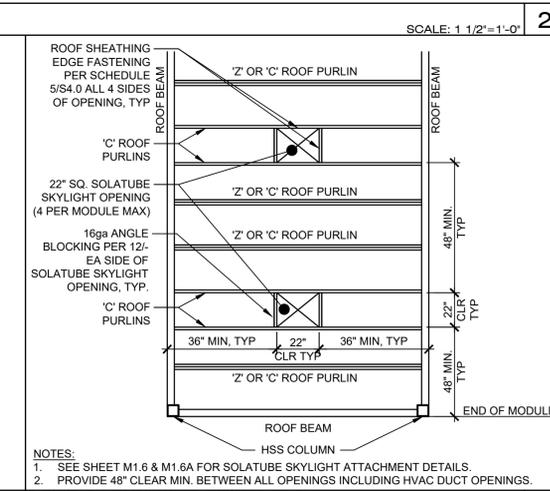
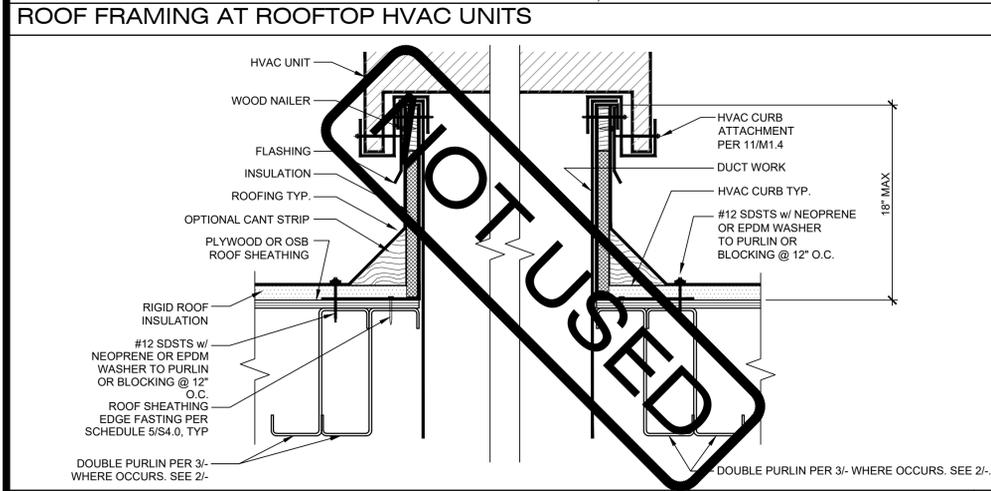
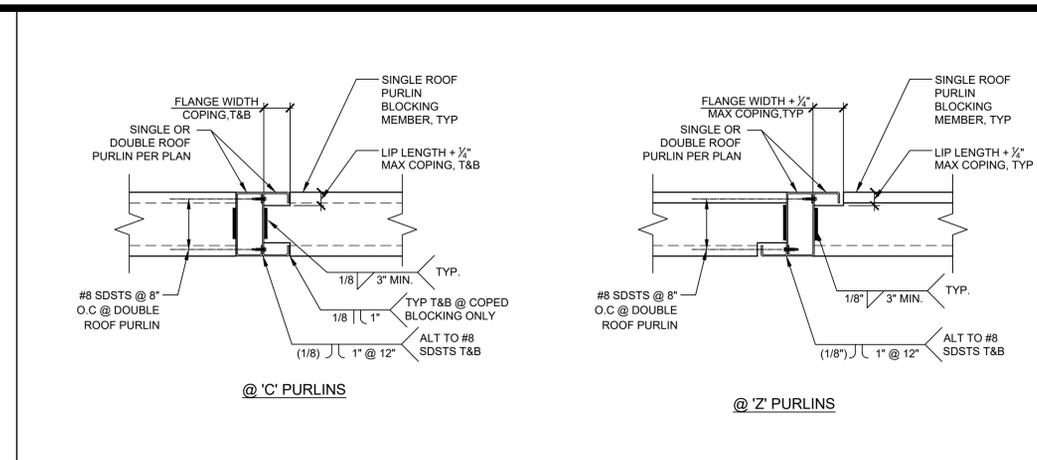
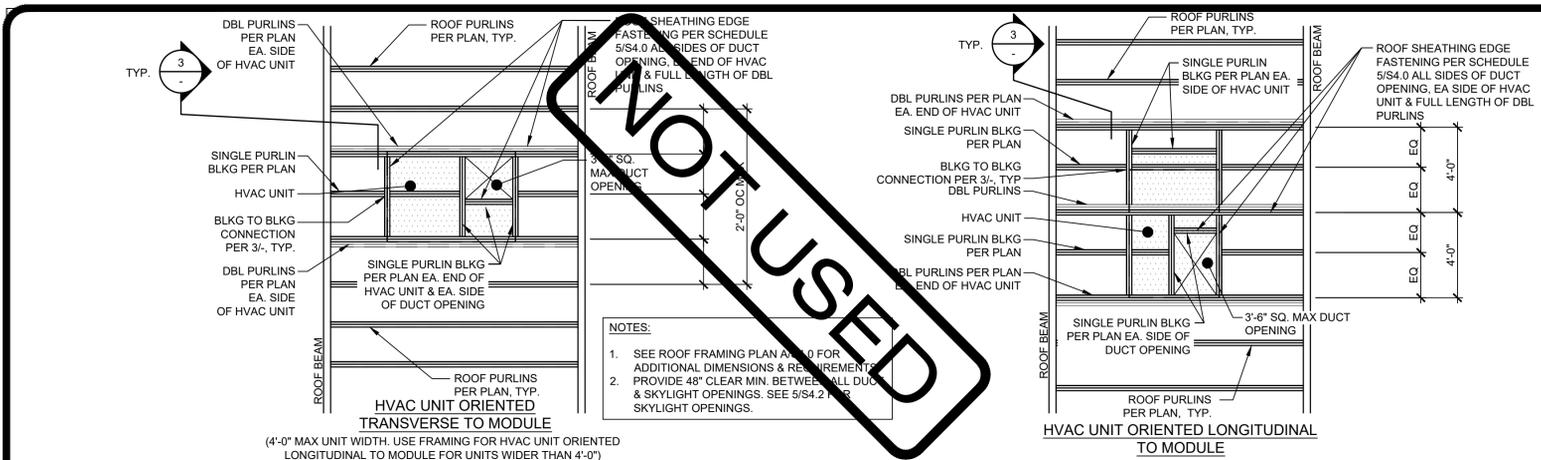

DRAWN BY: \_\_\_\_\_  
SCALE: AS NOTED  
DATE: MM/DD/YY  
PROJECT NO: XXXX-20

SHEET TITLE:  
**CONCRETE FOUNDATION  
OPTIONAL UTILITY  
OPENINGS IN FOOTINGS**

SHEET NUMBER:  
**S1.7**







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(LOW SEISMIC)  
**GEN7**  
by AMS

SITE SPECIFIC PROJECT NAME

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APP: 02-118326 PC  
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SS  FLS  ACS  CG   
DATE: 07/22/2021

2019 CBC PRE-CHECK (PC) DOCUMENT  
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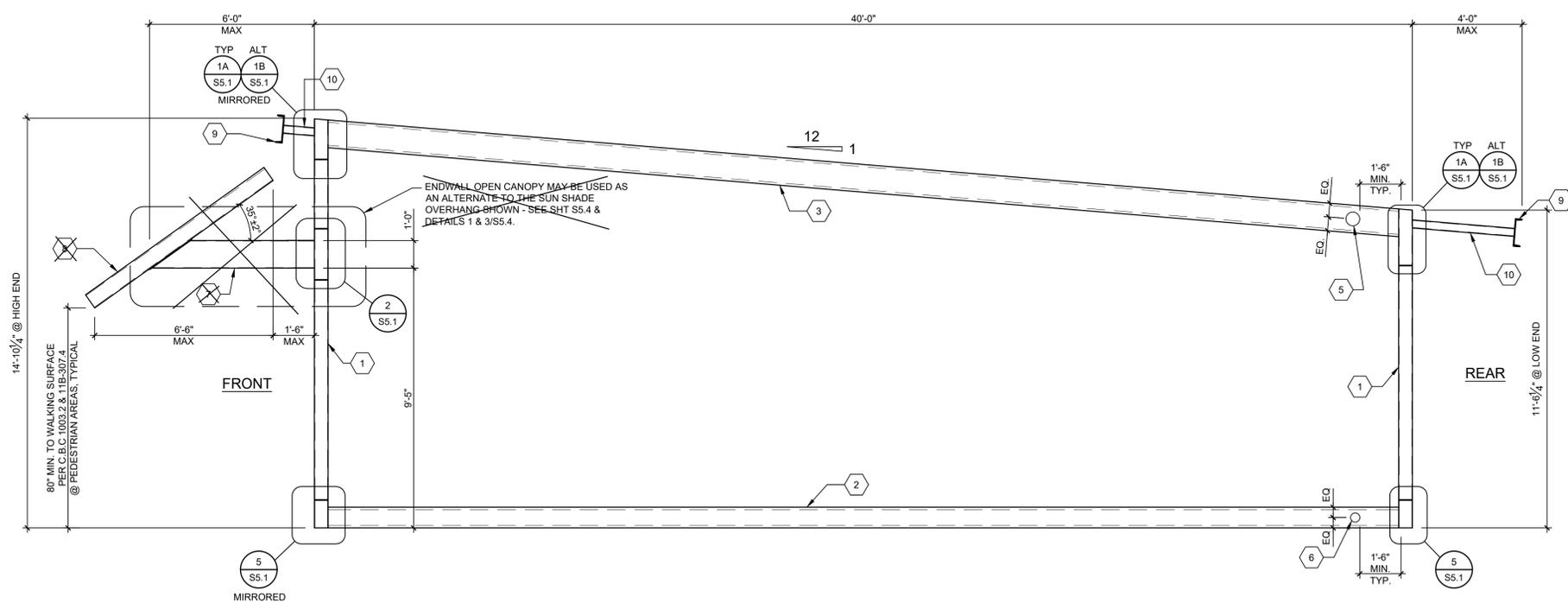
**Patrick Canfield**  
LICENSED ARCHITECT  
No. C12631  
Ren. 3-31-23  
STATE OF CALIFORNIA

**Robert J. Gones**  
REGISTERED PROFESSIONAL ENGINEER  
No. 6322  
STATE OF CALIFORNIA

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REVISIONS

DRAWN BY:  
SCALE: AS NOTED  
DATE: MMDDYY  
PROJECT NO: XXXX-20  
SHEET TITLE:  
**ROOF FRAMING DETAILS**  
SHEET NUMBER:  
**S4.2**



- 1 ASTM A1085 HSS COLUMN - SEE SCHEDULE 3/- BELOW
- 2 FLOOR BEAM - SEE SCHEDULE 3/- BELOW
- 3 LONGITUDINAL ROOF BEAM - SEE SCHEDULE 3/- BELOW
- 4 TRANSVERSE ROOF BEAM - SEE SCHEDULE 3/- BELOW
- 5 6"Ø MAX OPENING IN WEB OF ROOF BEAM WITHOUT WEB REINFORCEMENT. MINIMUM SPACING OF HOLES @ 48" O.C. HOLES MAY OCCUR @ ANY LOCATION ALONG LENGTH OF ROOF BEAM EXCEPT AS NOTED OTHERWISE ON FRAMING ELEVATION. - SEE 6/SS.1  
NOTE: IF HOLE IS 3" OR LESS THEY MAY BE SPACED @ 24" O.C. MINIMUM
- 6 4"Ø MAX OPENING IN WEB OF FLOOR BEAM WITHOUT WEB REINFORCEMENT. MINIMUM SPACING OF HOLES @ 48" O.C. HOLES MAY OCCUR @ ANY LOCATION ALONG LENGTH OF FLOOR BEAM EXCEPT AS NOTED OTHERWISE ON FRAMING ELEVATION. - SEE 6/SS.1  
NOTE: IF HOLE IS 2" OR LESS THEY MAY BE SPACED @ 24" MINIMUM
- 7 HSS 12"x3 1/2" SUN SHADE OVERHANG OUTRIGGER - SEE SHEET S5.2 & DETAIL 2/SS.1
- 8 SUN SHADE OVERHANG - REFER TO SHEET S5.2 FOR DETAILS
- 9 C12x20.7 UPPER OVERHANG FASCIA CHANNEL
- 10 HSS 3 1/2"x3 1/2"x1/4"
- 11 ALTERNATE OPEN CANOPY - REFER TO SHEET S5.4 FOR DETAILS

TYPICAL LONGITUDINAL FRAME ELEVATION

SCALE: 3/8"=1'-0" 1

KEY NOTES

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Phone (209) 825-1921 Fax (209) 825-7018  
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by AMS

SITE SPECIFIC PROJECT NAME

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DIV. OF THE STATE ARCHITECT  
APP: 02-118326 PC  
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2019 CBC PRE-CHECK (PC) DOCUMENT  
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LICENSED ARCHITECT  
PATRICK CANTRELL  
No. C12631  
Ren. 3-31-23  
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER  
ROBERT J GOMES  
No. 6322  
STATE OF CALIFORNIA

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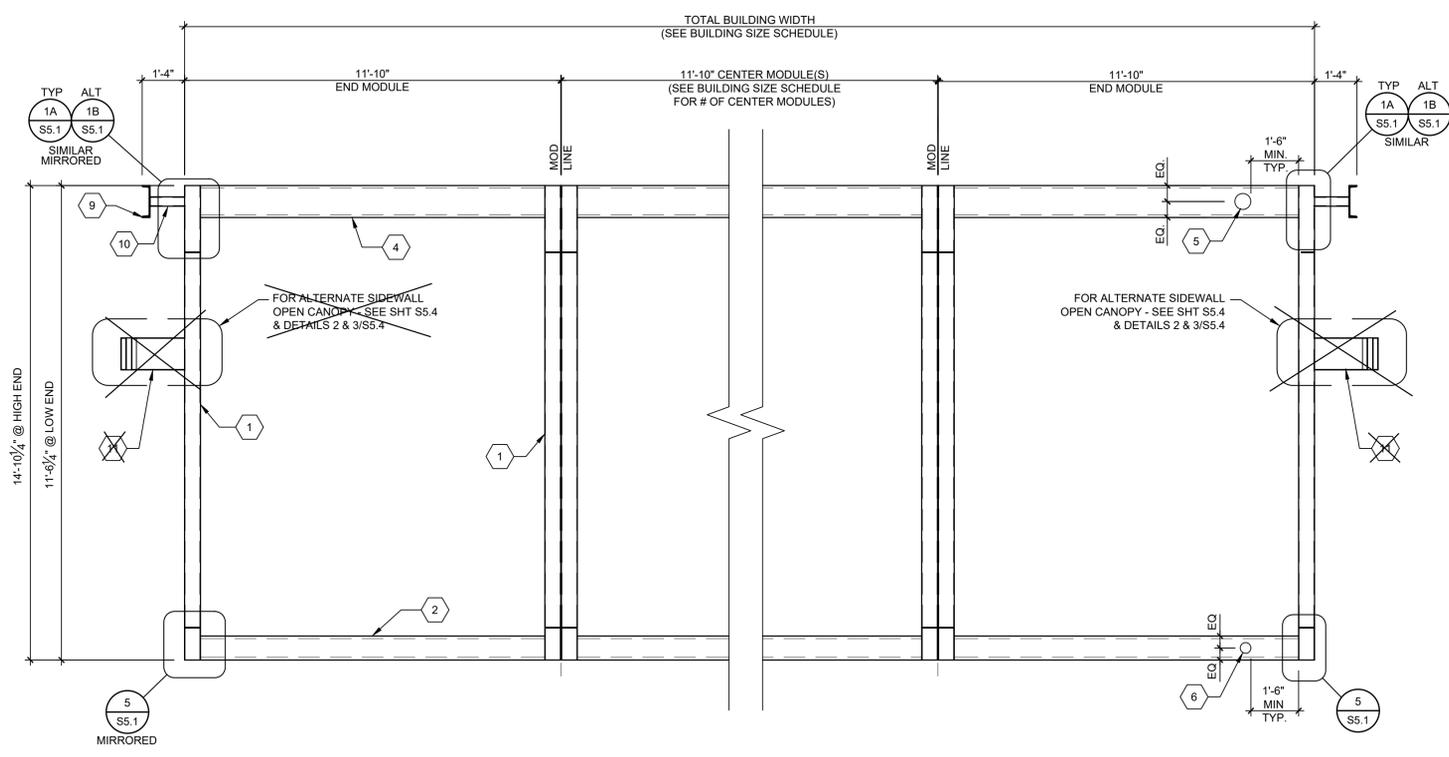
REVISIONS


DRAWN BY:  
SCALE: AS NOTED  
DATE: MM/DD/YY  
PROJECT NO: XXXX-20  
SHEET TITLE:

MOMENT FRAME ELEVATIONS

SHEET NUMBER:

**S5.0**



TYPICAL TRANSVERSE FRAME ELEVATION

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

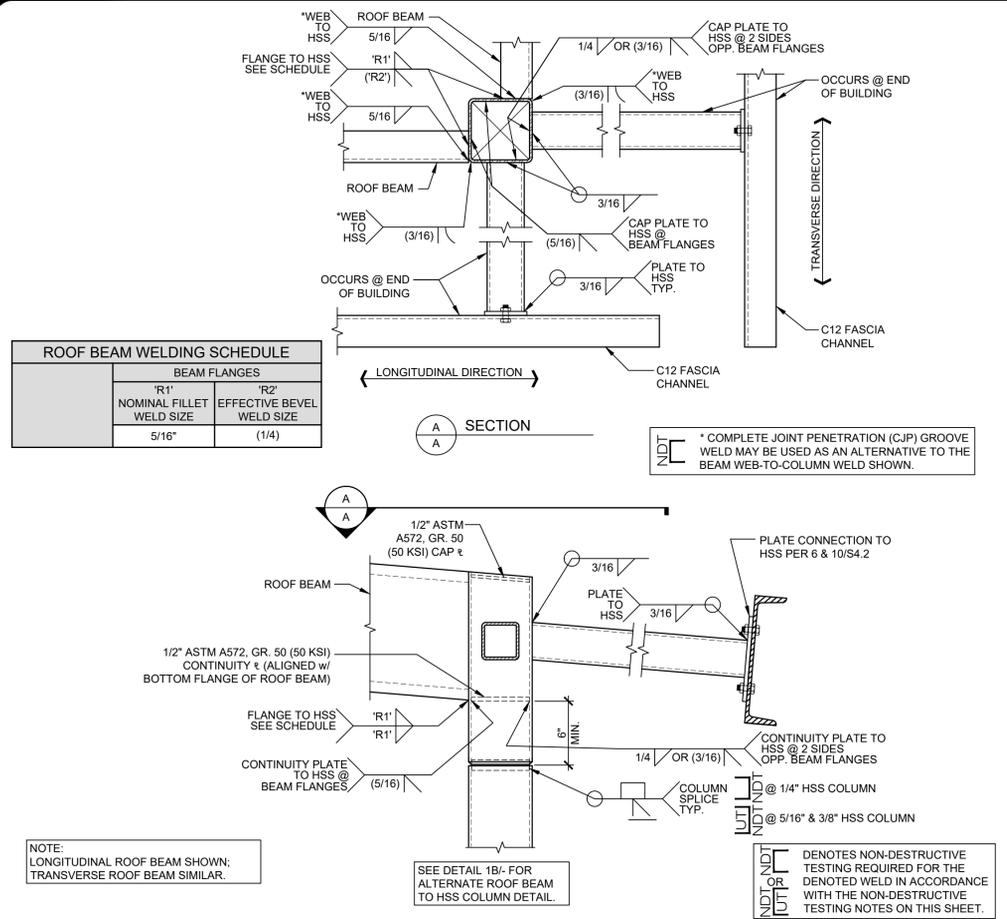
ROOF LOAD	ROOF BEAMS	FLOOR BEAMS	FRONT COLUMNS (HIGH END)	REAR COLUMNS (LOW END)
<input checked="" type="checkbox"/> STANDARD 20 PSF LIVE LOAD OR 20 PSF MAX. SNOW LOAD	C12x20.7 (50 KSI) OR 10 GA. ROOF BEAM PER SHEETS S0.0 & S5.3	C9x13.4 (50 KSI) OR C10x15.3 (50 KSI)	HSS 6x6x1/4 (ASTM A1085)	HSS 6x6x1/4 (ASTM A1085)
<input type="checkbox"/> 30 PSF MAX SNOW LOAD	C12x20.7 (50 KSI)	C9x13.4 (50 KSI) OR C10x15.3 (50 KSI)	HSS 6x6x5/16 (ASTM A1085)	HSS 6x6x1/4 (ASTM A1085)

FRAME MEMBER SCHEDULE

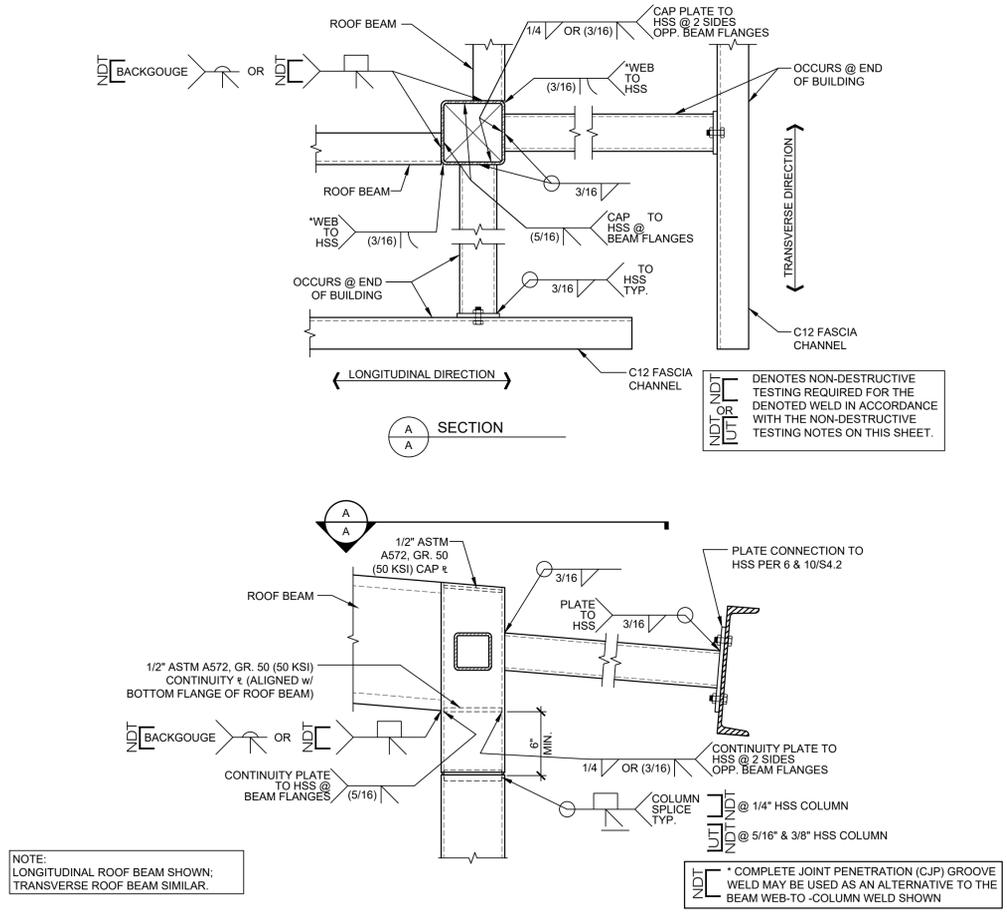
BUILDING SIZE SCHEDULE			
BUILDING SIZE (FT)	TOTAL # OF 12'-0" WIDE MODULES	TOTAL # OF CENTER MODULES	OVERALL BUILDING WIDTH <sup>1</sup>
<input type="checkbox"/> 24'x40'	2	0	23'-8 1/2"
<input type="checkbox"/> 36'x40'	3	1	35'-6 3/4"
<input type="checkbox"/> 48'x40'	4	2	47'-5"
<input type="checkbox"/> 60'x40'	5	3	59'-3 1/4"
<input type="checkbox"/> 72'x40'	6	4	71'-1 1/2"
<input type="checkbox"/> 84'x40'	7	5	82'-1 3/4"
<input checked="" type="checkbox"/> 96'x40'	8	6	94'-10"
<input type="checkbox"/> 108'x40'	9	7	106'-8 1/4"
<input type="checkbox"/> 120'x40'	10	8	118'-6 1/2"

NOTES:  
1. TOTAL FOUNDATION WIDTH INCLUDES 1/4" PER MODULE CONSTRUCTION TOLERANCE IN ADDITION TO 1/2" ADDED TO EACH SIDE OF THE BUILDING. THE FOUNDATION LENGTH NOTED ON THE PLANS ALSO INCLUDES 1/2" ADDED TO EACH ENDWALL OF THE BUILDING.

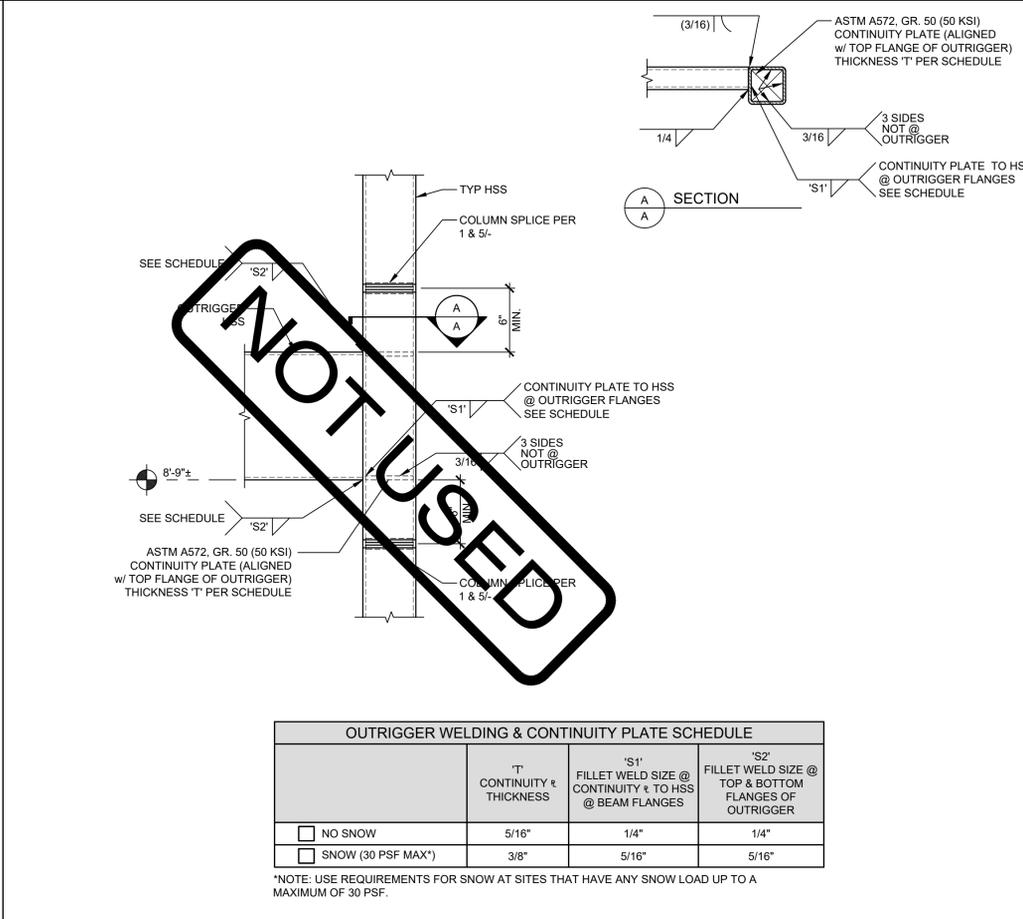
BUILDING SIZE SCHEDULE



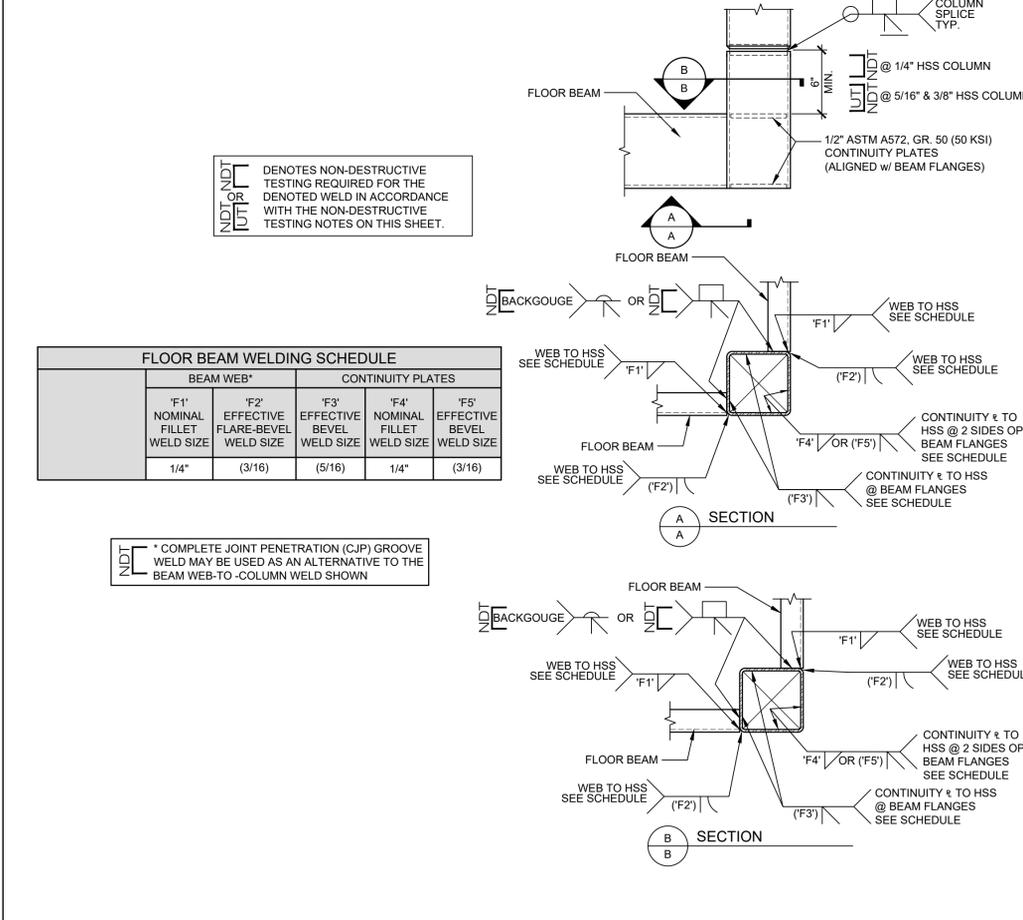
1A TYPICAL ROOF BEAM TO HSS COLUMN DETAIL SCALE: 1 1/2"=1'-0"



1B ALTERNATE ROOF BEAM TO HSS COLUMN DETAIL SCALE: 1 1/2"=1'-0"



2 OUTRIGGER SHADE STRUCTURE ATTACHMENT DETAIL SCALE: 1 1/2"=1'-0"



1B TYPICAL FLOOR BEAM TO HSS COLUMN DETAIL SCALE: 1 1/2"=1'-0"

THE WELDING PROCEDURE QUALIFICATION TEST RECORD AND WELDING PROCEDURE SPECIFICATION FOR WELDS ON THIS SHEET SHALL BE PREPARED IN ACCORDANCE WITH AWS D1.1-15 (HOT-ROLLED), D1.3-08 (COLD-FORMED) & D1.8-16 AND SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND SUBMITTAL TO D.S.A. UPON REQUEST. ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE-RESISTING SYSTEMS SHALL BE MADE WITH FILLER METAL THAT HAS A MINIMUM CHARTPY V-NOTCH TOUGHNESS OF 20 FT.-LBS AT ZERO DEGREES F, AS DETERMINED BY AWS CLASSIFICATION.

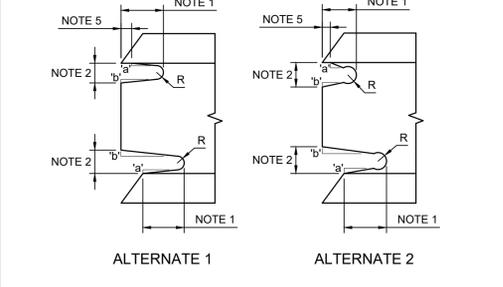
GENERAL NOTES

- NON-DESTRUCTIVE TESTING OF COMPLETE JOINT PENETRATION (CJP) GROVE WELDS AT THE MOMENT-RESISTING BEAM-TO-COLUMN CONNECTIONS SHALL COMPLY WITH AISC 341-16 CHAPTER J PER CBC 1705A.2.1.
- WELDS SUBJECT TO THE REQUIREMENTS OF NON-DESTRUCTIVE TESTING ARE NOTED ON THESE DRAWINGS WITH THE SYMBOL:
- ALL WELDS DESIGNATED FOR NON-DESTRUCTIVE TESTING REQUIRE MAGNETIC PARTICLE TESTING (MT) TO BE PERFORMED ON 25% OF THOSE WELDS.
- ULTRASONIC TESTING (UT) IS TO BE PERFORMED ON 100% OF WELDS DENOTED WITH THE SYMBOL AND IS ONLY REQUIRED ON THOSE DESIGNATED WELDS.
- ULTRASONIC TESTING (UT) IS ONLY REQUIRED WHERE THE THICKNESS OF THE COLUMN IS 5/16" OR GREATER. UT IS NOT REQUIRED WHERE THE COLUMN THICKNESS IS LESS THAN 5/16". MAGNETIC PARTICLE TESTING (MT) IS STILL REQUIRED.
- ULTRASONIC TESTING (UT) IS NOT REQUIRED ON WELDS FROM STRUCTURAL STEEL CHANNEL BEAM FLANGES TO COLUMNS AS UT TESTING IS NOT APPROPRIATE FOR SECTIONS WITH VARYING DEPTHS. MAGNETIC PARTICLE TESTING (MT) IS STILL REQUIRED.

NON-DESTRUCTIVE TESTING NOTES

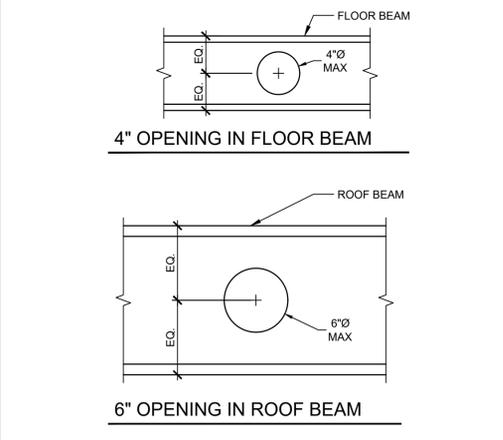
- FILLER METALS SHALL CONFORM TO THE REQUIREMENTS OF THE AISC SEISMIC PROVISIONS.
- WELDING PROCEDURES SHALL BE IN ACCORDANCE WITH THE AISC SEISMIC PROVISIONS.
- QUALITY CONTROL AND QUALITY ASSURANCE SHALL BE IN ACCORDANCE WITH THE AISC SEISMIC PROVISIONS.
- WELD ACCESS HOLES SHALL BE IN ACCORDANCE WITH AISC 360-16, SECTION J1.6, AND SHALL BE CONSTRUCTED PER THE FOLLOWING DETAILS & NOTES.

WELD ACCESS HOLE GEOMETRY



NOTES: THESE ARE TYPICAL DETAILS FOR JOINTS WELDED FROM ONE SIDE AGAINST STEEL BACKING WHERE WELD ACCESS HOLES ARE REQUIRED.

REQ. FOR FR. MOMENT CONNECTIONS



6 OPENING IN BEAMS SCALE: 1 1/2"=1'-0"

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PATRICK CANNON  
No. C12631  
Ren. 2-31-23  
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER  
No. 6322  
ROBERT J. GOMES  
STATE OF CALIFORNIA

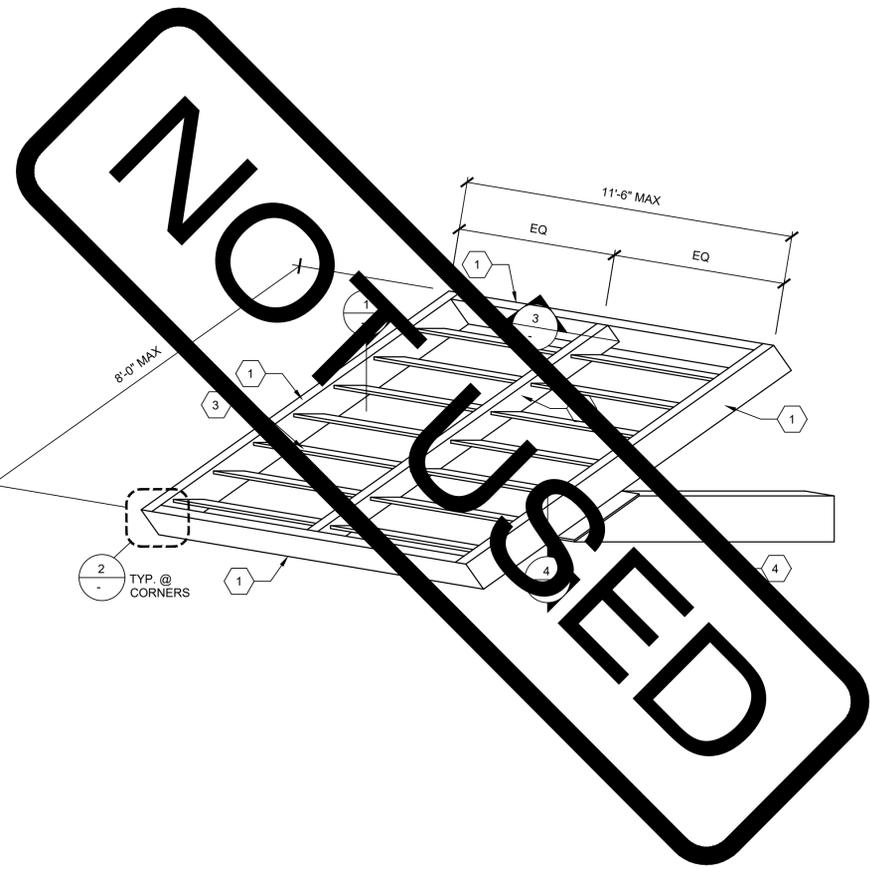
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REVISIONS

NO.	DESCRIPTION

DRAWN BY: \_\_\_\_\_  
SCALE: AS NOTED  
DATE: MM/DD/YYYY  
PROJECT NO: XXXX-20  
SHEET TITLE: MOMENT FRAME CONNECTION DETAILS  
SHEET NUMBER: \_\_\_\_\_

**S5.1**



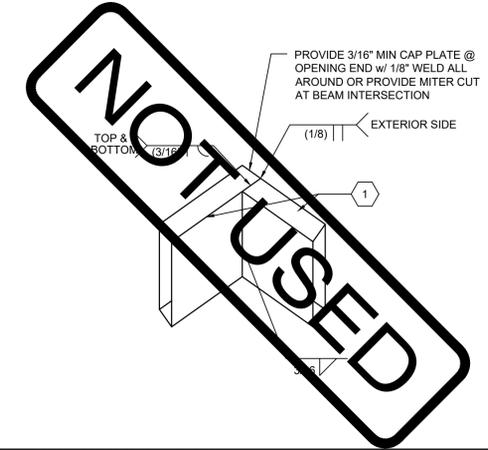
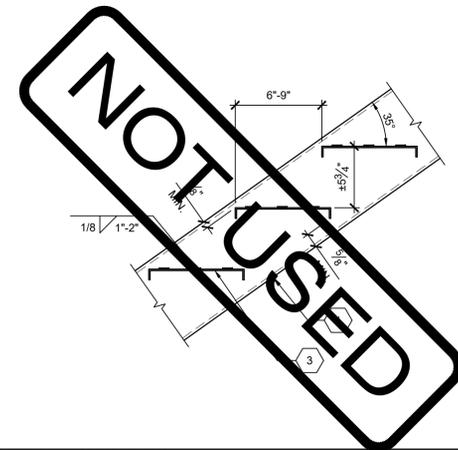
- 1 HSS 6"x2"x1/4"
- 2 HSS 6"x2"x1/4"
- 3 8" WIDE x 3/4" x 12 GA. CHANNELS TYP. (USE 1/4"x36 KSI OR 3/16" x 50 KSI STEEL @ SITES W/ SNOW LOAD)
- 4 HSS 12"x3"x1/4" OUTRIGGER REFER TO DETAIL 2/S5.1 FOR ATTACHMENT TO HSS COLUMN
- 5 HSS 3 1/2" x 3 1/2" x 1/4"
- 6 C12x20.7 FASCIA BEAM
- 7 6" WIDE x 3/4" x 12 GA. CHANNELS TYP. (USE 1/4"x36 KSI OR 3/16" x 50 KSI STEEL @ SITES WITH SNOW LOAD)
- 8 TYPICAL BUILDING

ROOF LOAD	
<input checked="" type="checkbox"/>	NO SNOW
<input type="checkbox"/>	SNOW (30 PSF MAX)

NOTE:  
USE REQUIREMENTS FOR SNOW AT SITES THAT HAVE ANY AMOUNT OF SNOW LOAD UP TO A MAXIMUM OF 30 PSF.

\*NOTE:  
FOR SECTION PROPERTIES OF LIGHT GAUGE STEEL MEMBERS - SEE SHEET S0.0

KEY NOTES



SUN SHADE OVERHANG PLAN

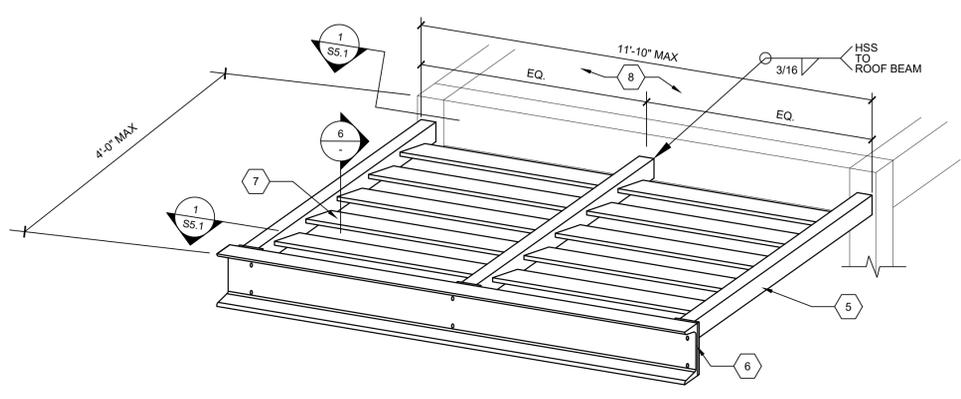
SCALE: 3/4"=1'-0"

DETAIL @ SIDES OF SUN SHADE OVERHANG

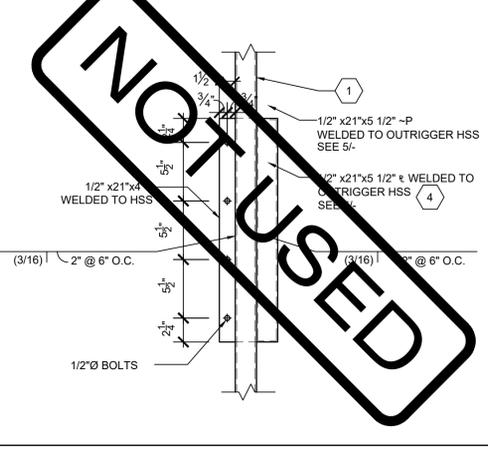
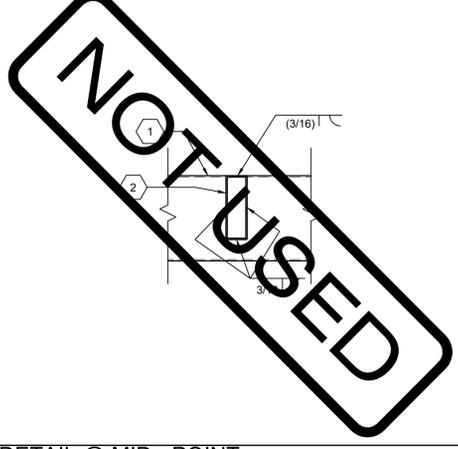
SCALE: 1 1/2"=1'-0"

DETAIL @ CORNERS OF SUN SHADE OVERHANG

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



SEE 6/S5.5 FOR OPTIONAL DRIP PAN @ REAR ROOF OVERHANG.  
SEE 12/S5.4 FOR OPTIONAL ENCLOSED SOFFIT REAR ROOF OVERHANG.



DETAIL @ MID-POINT OF SUN SHADE OVERHANG

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

SUN SHADE OVERHANG TO OUTRIGGER CONNECTION DETAIL

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

TYP REAR ROOF OVERHANG PLAN

SCALE: 3/4"=1'-0"

PLATE TO SUN SHADE OUTRIGGER CONNECTION DETAIL

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

DETAIL @ SIDES REAR ROOF OVERHANG

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

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Ren. 3-31-23  
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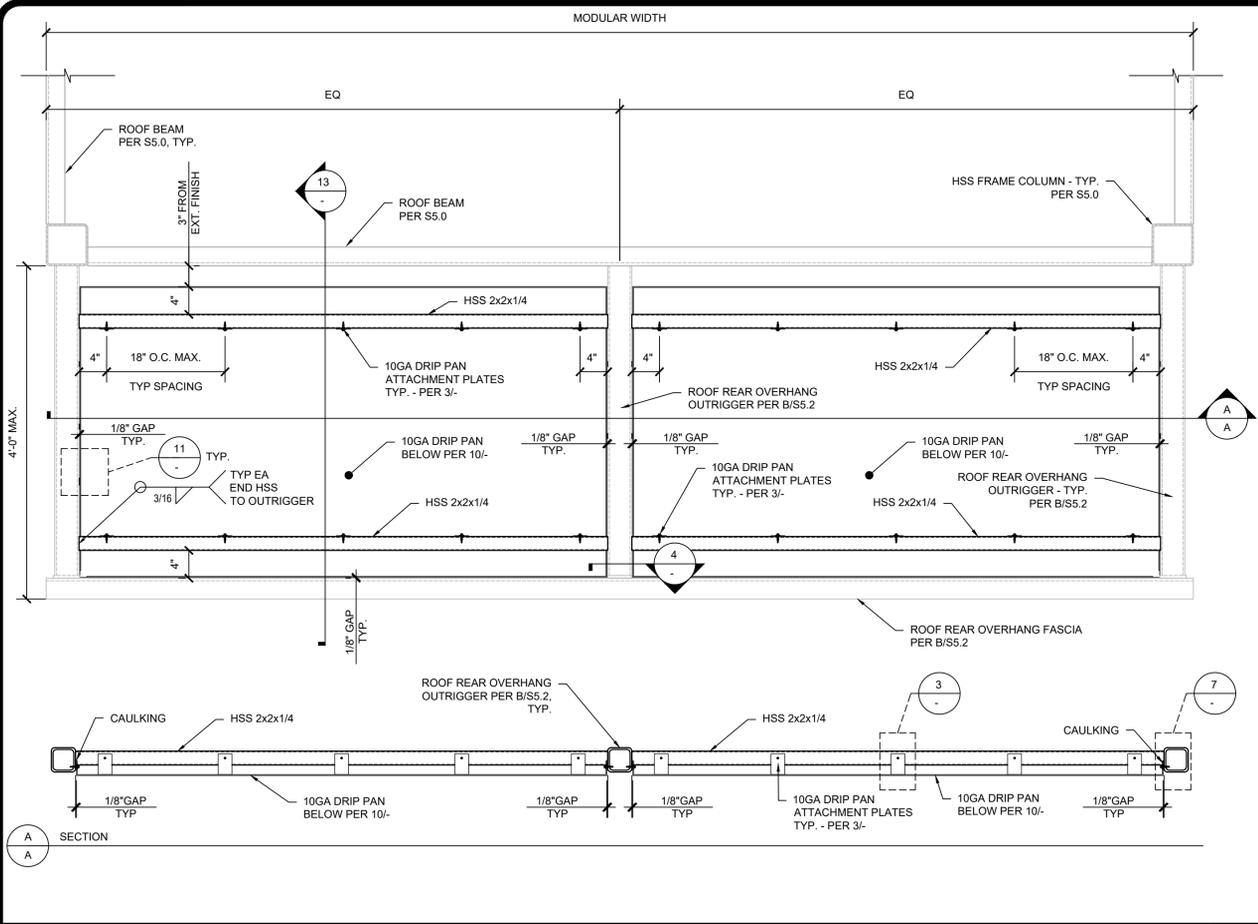
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SCALE: AS NOTED  
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PROJECT NO: XXXX-20

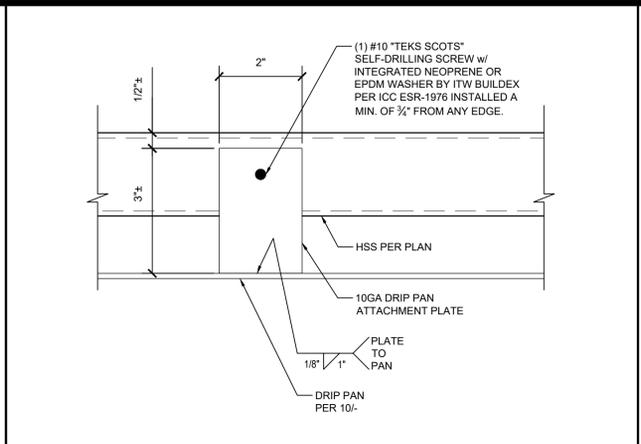
SHEET TITLE:  
SUNSHADE & REAR ROOF OVERHANG PLAN & DETAILS

SHEET NUMBER:  
S5.2

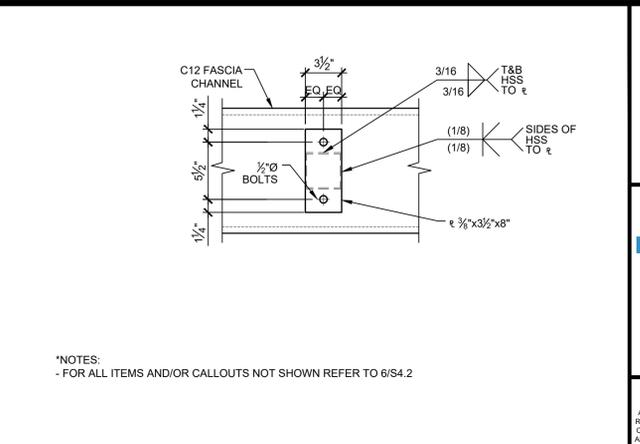




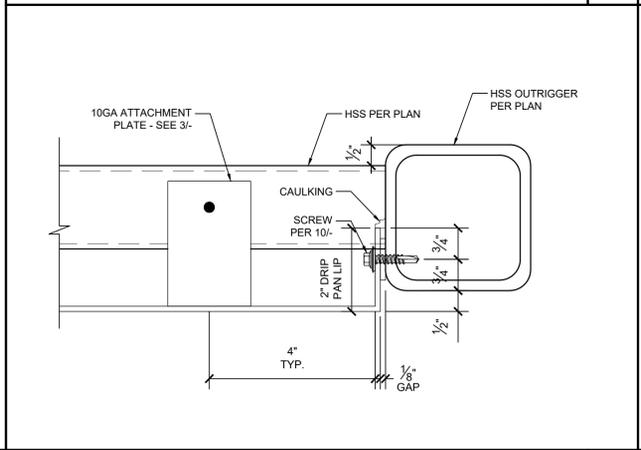
OPTIONAL DRIP PAN @ REAR OVERHANG PLAN SCALE: 1"=1'-0" 6



CLIP ATTACHMENT DETAIL SCALE: 6"=1'-0" 3

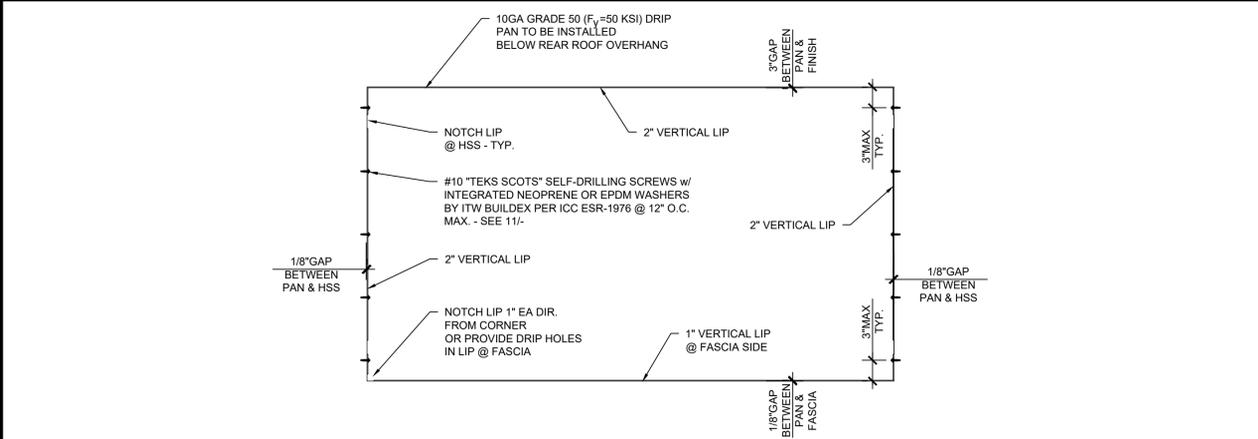


FASCIA BEAM ATTACHMENT DETAIL SCALE: 1 1/2"=1'-0" 4

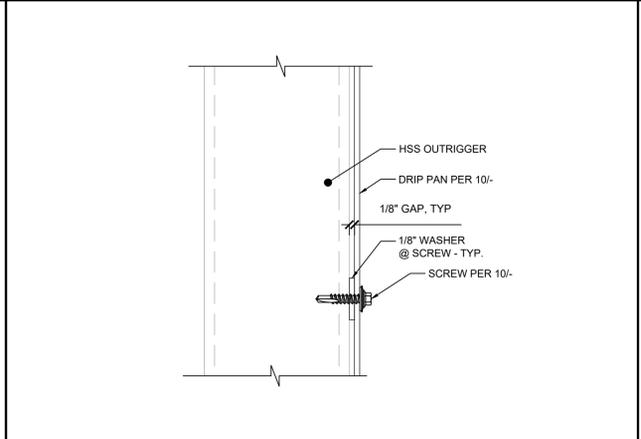


ATTACHMENT DETAIL SCALE: 6"=1'-0" 7

\*NOTES:  
- FOR ALL ITEMS AND/OR CALLOUTS NOT SHOWN REFER TO 6/S4.2

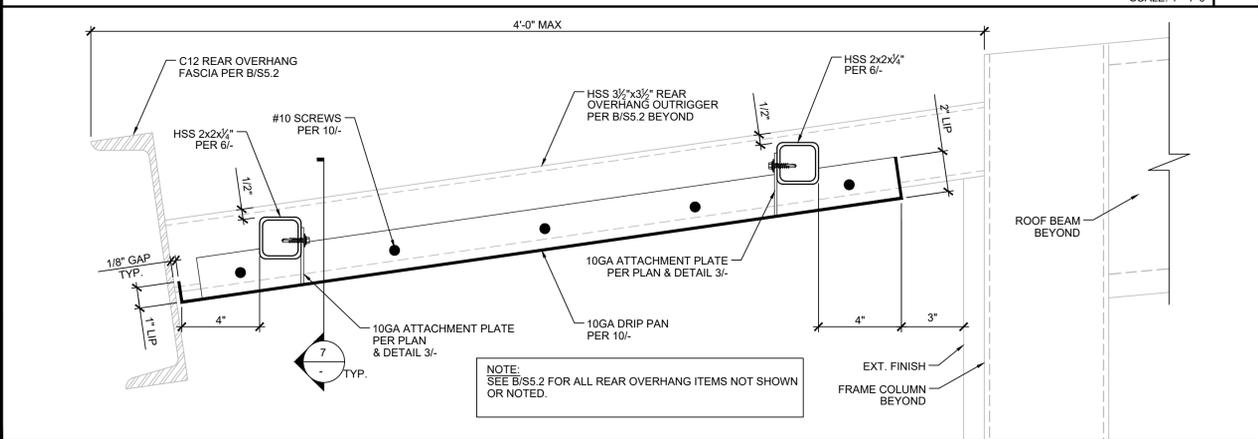


DRIP PAN DETAIL SCALE: 1"=1'-0" 10



PAN ATTACHMENT DETAIL SCALE: 6"=1'-0" 11

NOT USED



REAR OVERHANG WITH DRIP PAN - SECTION SCALE: 3"=1'-0" 13

NOT USED

\*NOTES:  
- FOR ALL OTHER SUNSHADE OR REAR ROOF OVERHANG PLANS AND DETAILS REFER TO S5.2

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STATE OF CALIFORNIA

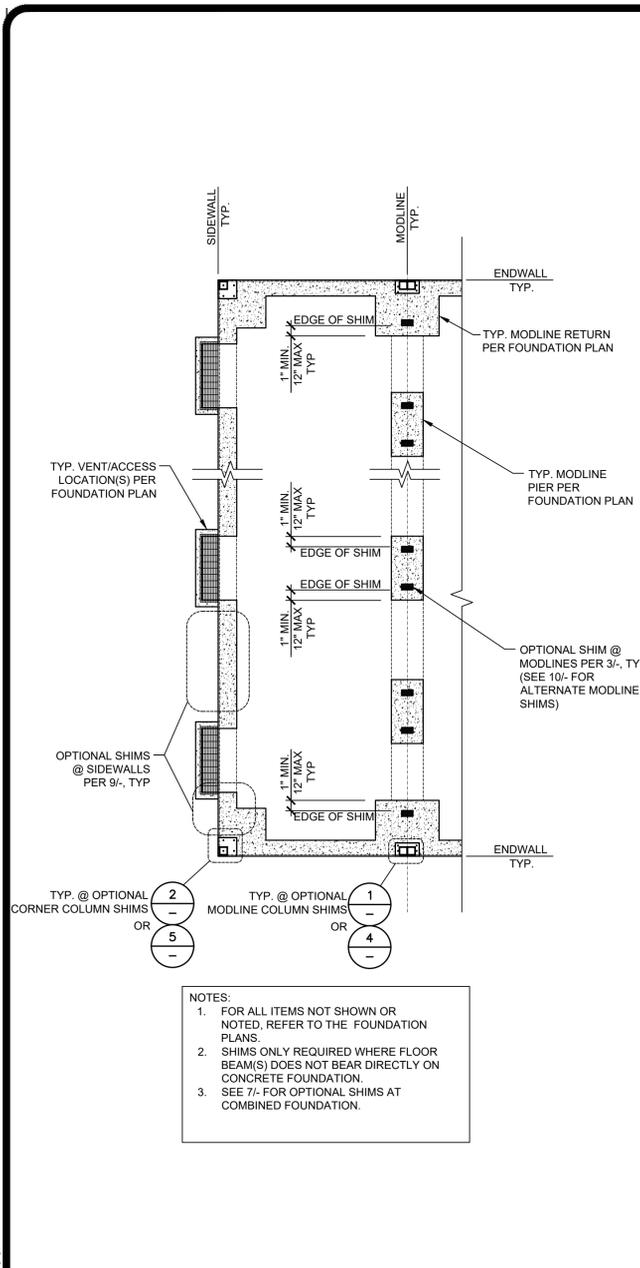
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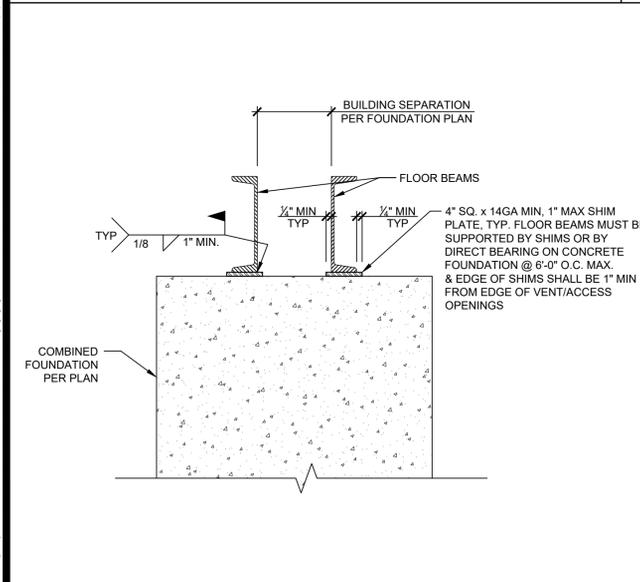

DRAWN BY: AS NOTED  
SCALE: MM/DD/YY  
DATE: M/D/Y  
PROJECT NO: XXXX-20  
SHEET TITLE: OPTIONAL DRIP PAN @ REAR ROOF OVERHANG  
SHEET NUMBER:

**S5.5**

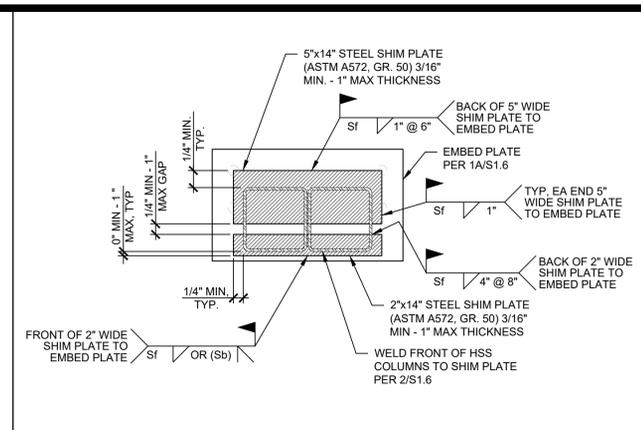
NOTES



TYPICAL FOUNDATION SHIMMING PLAN SCALE: 3/16" = 1'-0" A



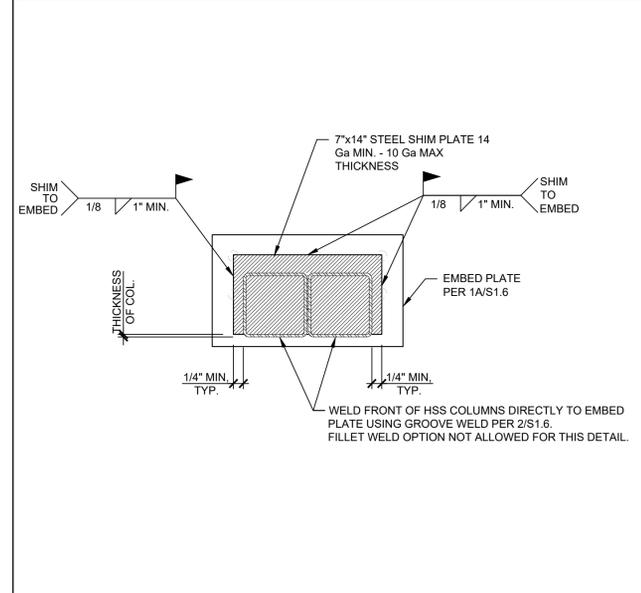
OPTIONAL FLOOR BEAM SHIMS @ COMBINED FOUNDATION SCALE: 1-1/2" = 1'-0" 7



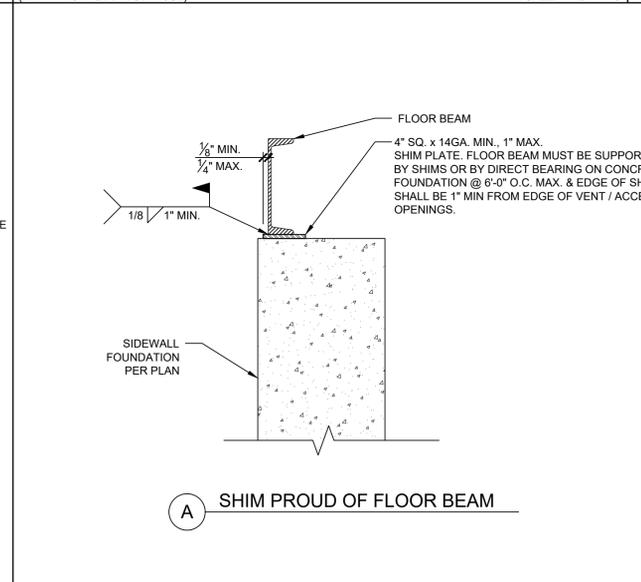
WELD SIZE SCHEDULE		
SHIM PLATE THICKNESS, IN.	Sf NOMINAL FILLET WELD SIZE, IN.	(Sb) EFFECTIVE BEVEL WELD SIZE, IN.
3/16 TO 1/4	3/16	(1/8)
OVER 1/4 TO 1/2	3/16	(3/16)
OVER 1/2 TO 3/4	1/4	(1/4)
OVER 3/4 TO 1	5/16	(5/16)

NOTE: SEE 4/- FOR OPTIONAL 14Ga MIN, 10Ga MAX SHIM PLATE DETAIL

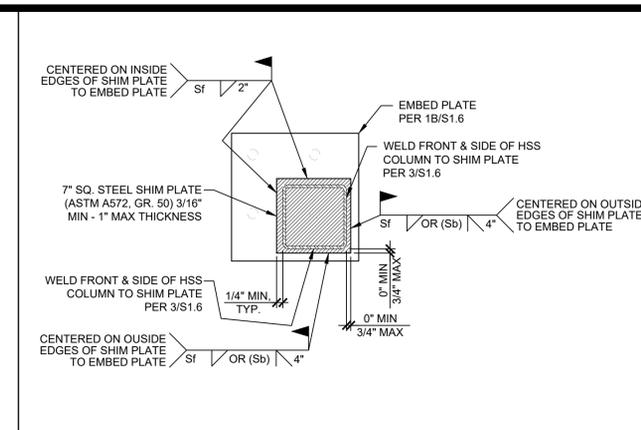
OPT. SHIMS @ MODLINE FOUNDATION ANCHORAGE (SHIM THICKNESS 3/16" - 1") SCALE: 1-1/2" = 1'-0" 1



OPT. SHIMS @ MODLINE FOUNDATION ANCHORAGE (SHIM THICKNESS 14Ga - 10Ga) SCALE: 1-1/2" = 1'-0" 4



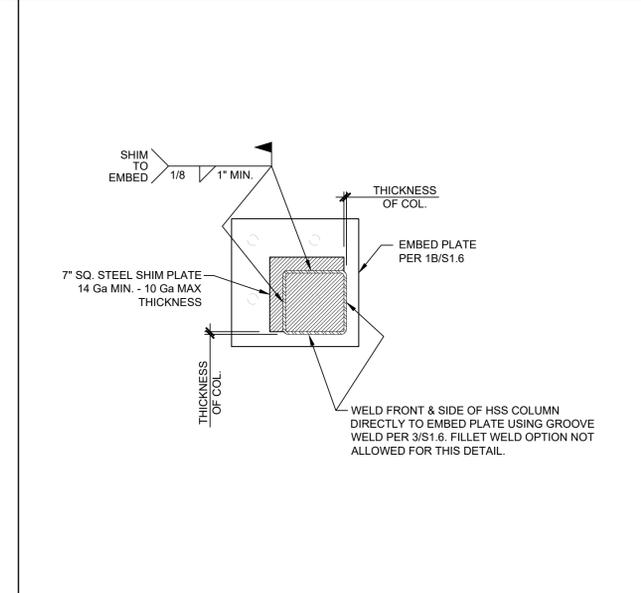
OPTIONAL SHIMS @ SIDEWALL FLOOR BEAMS SCALE: 1-1/2" = 1'-0" 9



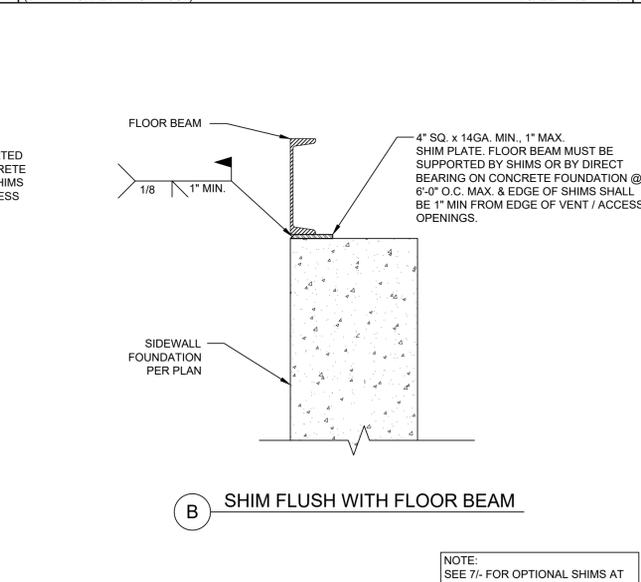
WELD SIZE SCHEDULE		
SHIM PLATE THICKNESS, IN.	Sf NOMINAL FILLET WELD SIZE, IN.	(Sb) EFFECTIVE BEVEL WELD SIZE, IN.
3/16 TO 1/4	3/16	(1/8)
OVER 1/4 TO 1/2	3/16	(3/16)
OVER 1/2 TO 3/4	1/4	(1/4)
OVER 3/4 TO 1	5/16	(5/16)

NOTE: SEE 5/- FOR OPTIONAL 14Ga MIN, 10Ga MAX SHIM PLATE DETAIL

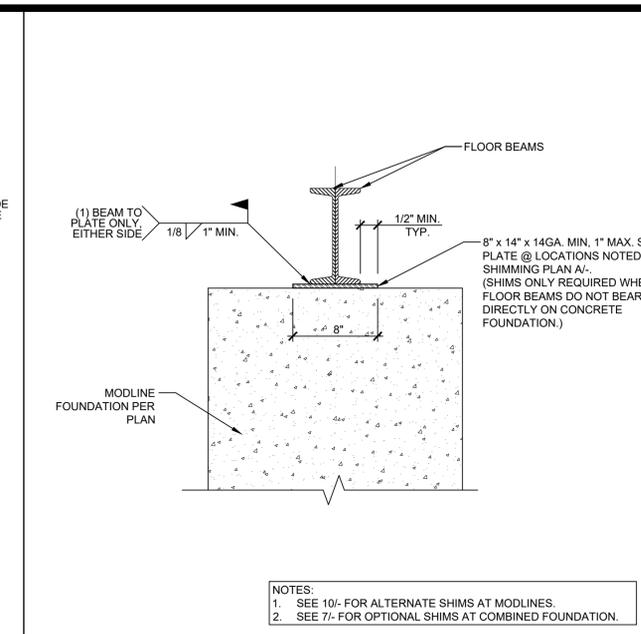
OPT. SHIMS @ CORNER FOUNDATION ANCHORAGE (SHIM THICKNESS 3/16" - 1") SCALE: 1-1/2" = 1'-0" 2



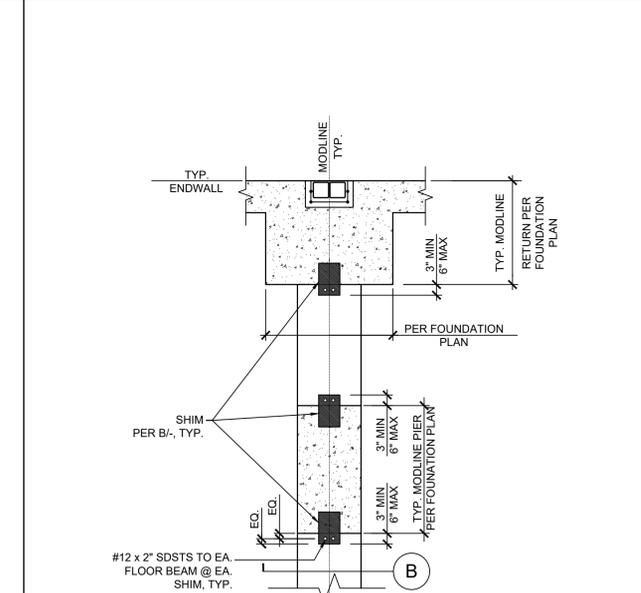
OPT. SHIMS @ CORNER FOUNDATION ANCHORAGE (SHIM THICKNESS 14Ga - 10Ga) SCALE: 1-1/2" = 1'-0" 5



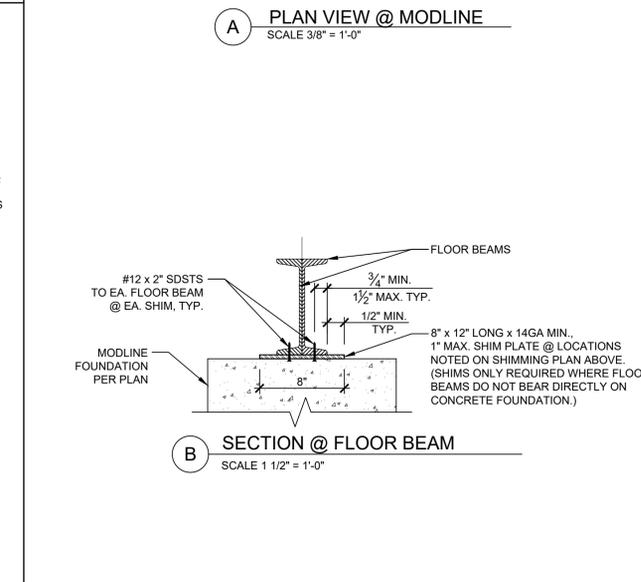
ALTERNATE SHIMS @ MODLINES SCALE: 1-1/2" = 1'-0" 10



OPTIONAL SHIMS @ MODLINE FLOOR BEAMS SCALE: 1-1/2" = 1'-0" 3



PLAN VIEW @ MODLINE SCALE 3/8" = 1'-0" A



SECTION @ FLOOR BEAM SCALE 1 1/2" = 1'-0" B

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DIV. OF THE STATE ARCHITECT  
APP: 02-120119 INC.  
REVIEWED FOR  
SS  FLS  ACS   
DATE: 08/23/2022

**AMS**  
American Modular Systems  
787 Spreckels Ave., Manteca, CA 95336  
Phone (209) 825-1921 Fax (209) 825-7018  
www.americanmodular.com

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**24' x 40' THRU 120' x 40'**  
(LOW SEISMIC)  
**GEN7**  
by AMS

SITE SPECIFIC PROJECT NAME

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APP: 02-118326-PC  
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2019 CBC PRE-CHECK (PC) DOCUMENT  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

*Robert J. Gones*  
LICENSED ARCHITECT  
No. C12631  
Ren. 3-31-23  
STATE OF CALIFORNIA

*Robert J. Gones*  
REGISTERED PROFESSIONAL ENGINEER  
No. 6322  
STATE OF CALIFORNIA

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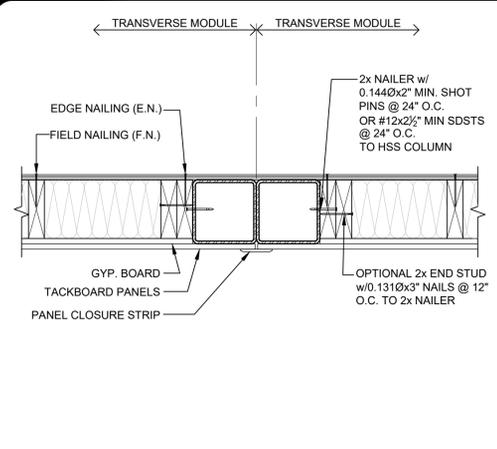
REVISIONS


DRAWN BY:  
SCALE: AS NOTED  
DATE: MM/DD/YYYY  
PROJECT NO: XXXX-20  
SHEET TITLE:

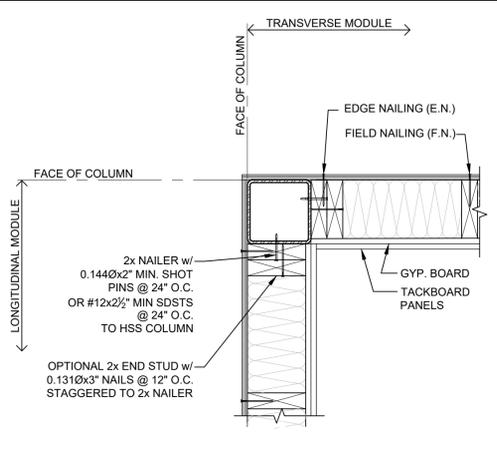
OPTIONAL SHIM PLATES DETAILS

SHEET NUMBER:  
**S7.0**

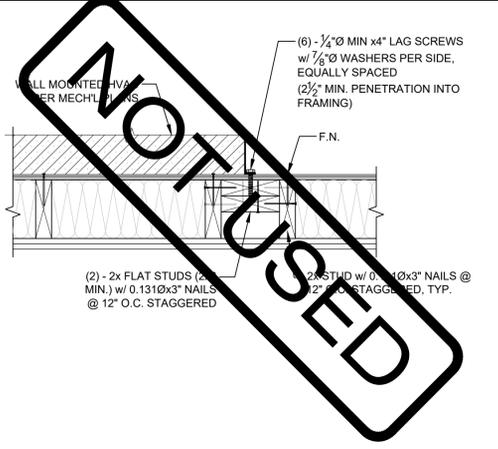




WALL TO COLUMN TYP. DETAIL @ MODLINES  
FOR COLUMN LOCATION REFER TO ARCH. DETAILS  
SCALE: 1-1/2" = 1'-0" 1



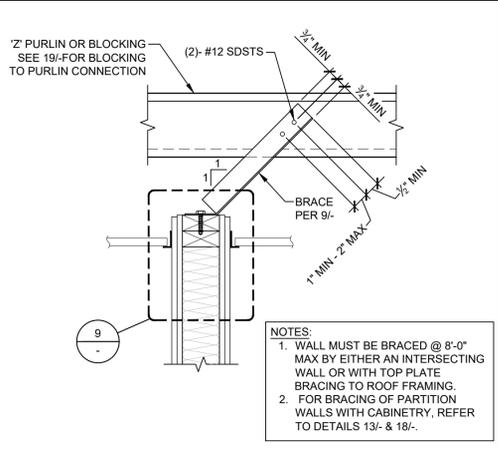
WALL TO COLUMN TYP. DETAIL @ CORNER  
FOR COLUMN LOCATION REFER TO ARCH. DETAILS  
SCALE: 1-1/2" = 1'-0" 2



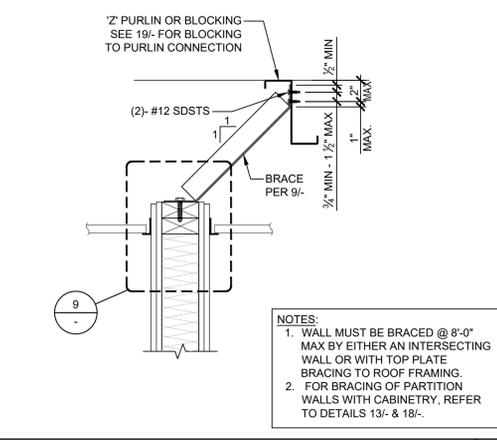
WALL HUNG HVAC ATTACHMENT DETAIL  
SCALE: 1-1/2" = 1'-0" 3



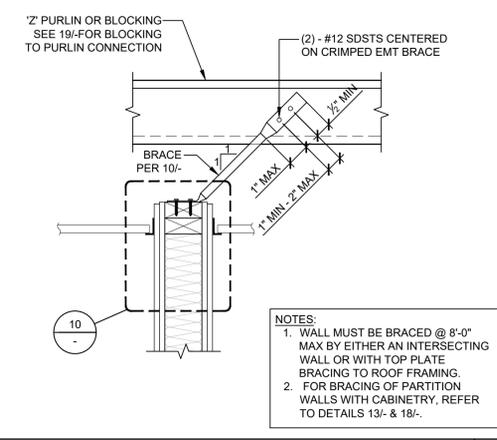
NOT USED  
SCALE: 1-1/2" = 1'-0" 4



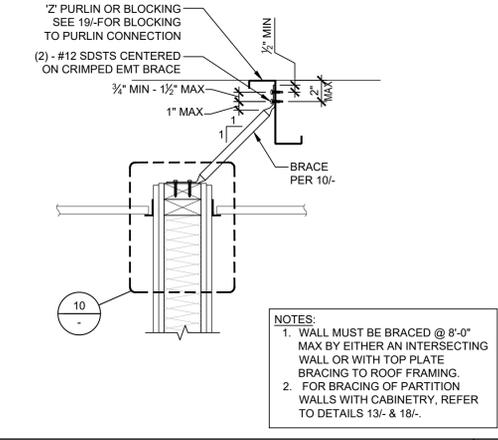
TYP. INTERIOR WALL BRACING  
BRACE PARALLEL TO PURLINS OR BLOCKING  
SCALE: 1-1/2" = 1'-0" 5



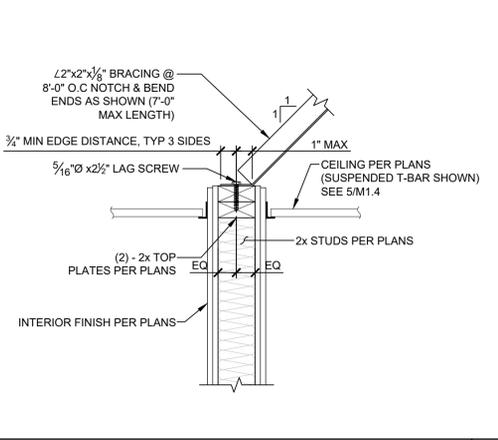
TYP. INTERIOR WALL BRACING  
BRACE PERPENDICULAR TO PURLINS OR BLOCKING  
SCALE: 1-1/2" = 1'-0" 6



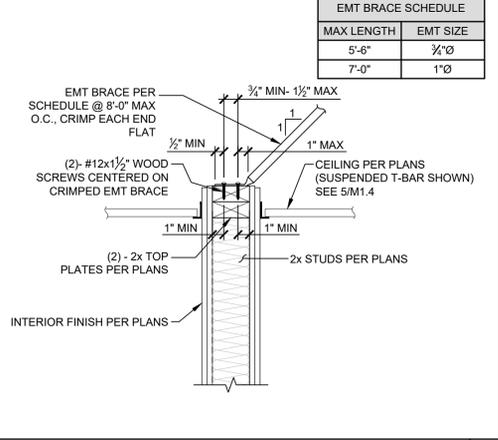
ALT. INTERIOR WALL BRACING w/ EMT BRACE  
BRACE PARALLEL TO PURLINS OR BLOCKING  
SCALE: 1-1/2" = 1'-0" 7



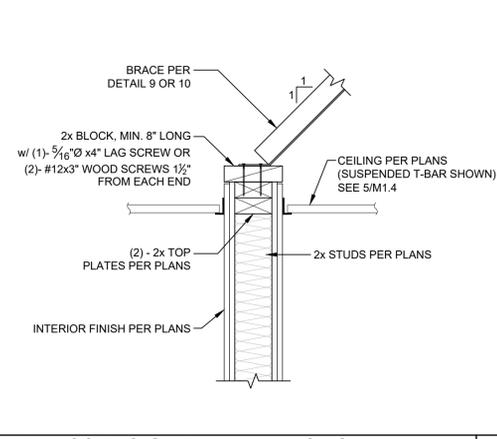
ALT. INTERIOR WALL BRACING w/ EMT BRACE  
BRACE PERPENDICULAR TO PURLINS OR BLOCKING  
SCALE: 1-1/2" = 1'-0" 8



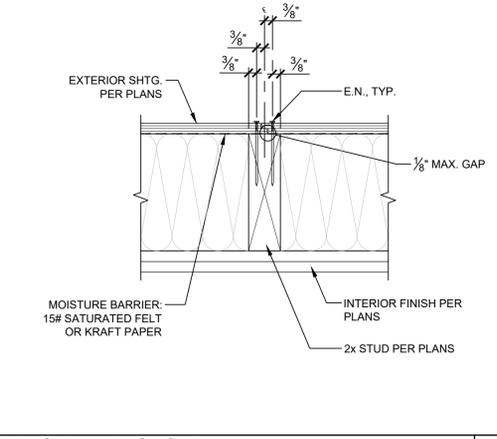
TYP. INTERIOR WALL BRACING  
INTERIOR PARTITION BRACING  
SCALE: 1-1/2" = 1'-0" 9



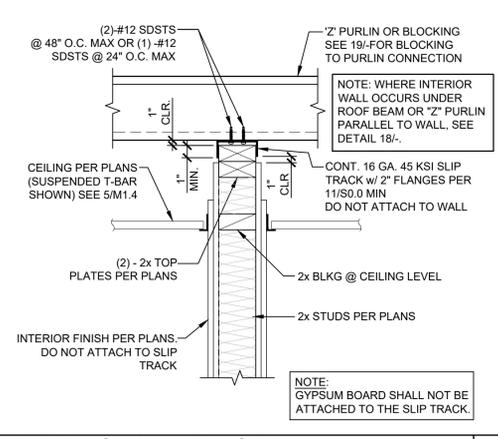
ALT. INTERIOR WALL BRACING  
INTERIOR PARTITION BRACING w/ EMT BRACE  
SCALE: 1-1/2" = 1'-0" 10



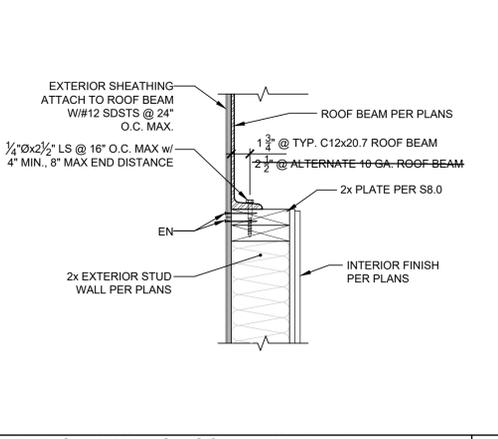
ALT. BLOCKING @ INT. WALL BRACING  
SCALE: 1-1/2" = 1'-0" 11



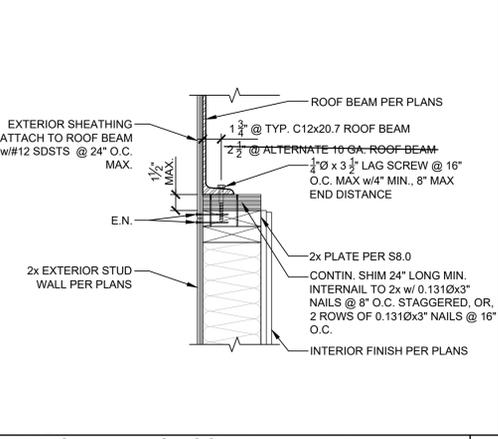
TYP. SHEATHING JOINT  
SCALE: 1-1/2" = 1'-0" 12



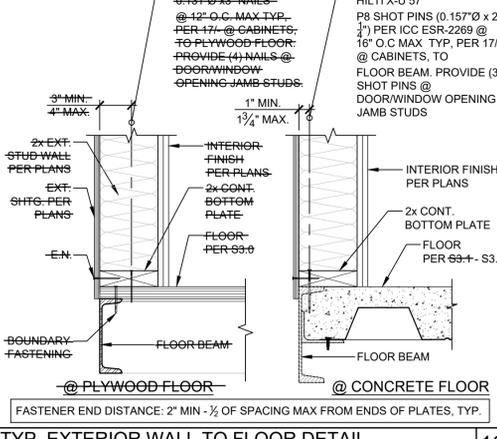
ALT. INTERIOR WALL ATTACHMENT  
TO PURLINS OR BLOCKING PERPENDICULAR TO WALL  
SCALE: 1-1/2" = 1'-0" 13



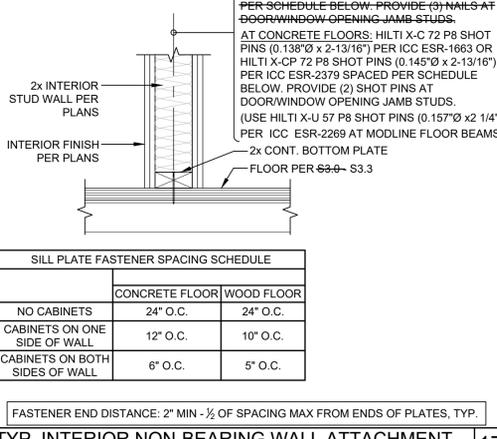
EXTERIOR WALL TO ROOF BEAM DETAIL  
SCALE: 1-1/2" = 1'-0" 14



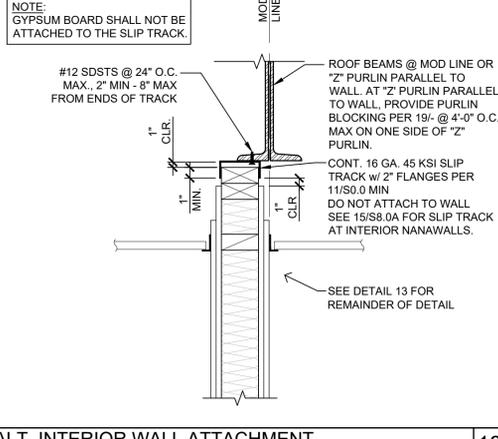
EXTERIOR WALL TO ROOF BEAM DETAIL  
AT SHIM CONDITION  
SCALE: 1-1/2" = 1'-0" 15



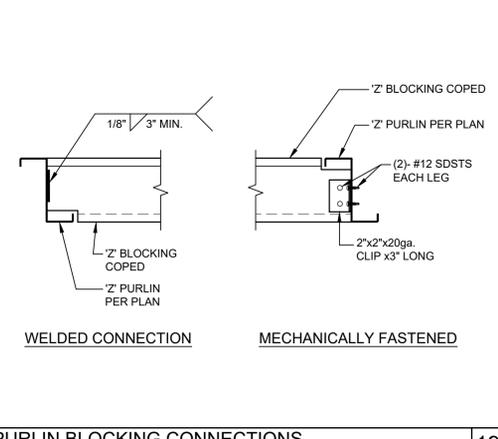
TYP. EXTERIOR WALL TO FLOOR DETAIL  
SCALE: 1-1/2" = 1'-0" 16



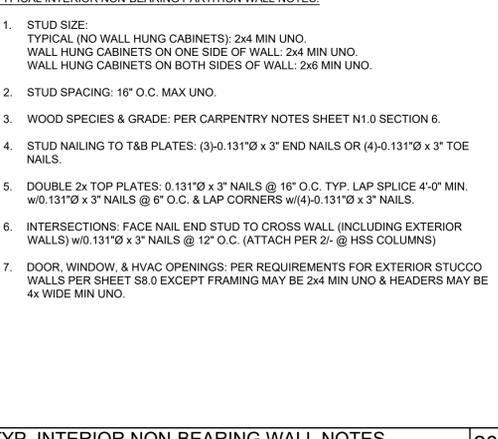
TYP. INTERIOR NON-BEARING WALL ATTACHMENT  
SCALE: 1-1/2" = 1'-0" 17



ALT. INTERIOR WALL ATTACHMENT  
TO ROOF BEAMS AT MODLINE OR Z" PURLIN PARALLEL TO WALL  
SCALE: 1-1/2" = 1'-0" 18



PURLIN BLOCKING CONNECTIONS  
SCALE: 1-1/2" = 1'-0" 19



TYP. INTERIOR NON-BEARING WALL NOTES  
SCALE: 1-1/2" = 1'-0" 20

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PRE-CHECKED SET NAME  
**24' x 40' THRU 120' x 40'**  
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**GEN7**  
by AMS

SITE SPECIFIC PROJECT NAME

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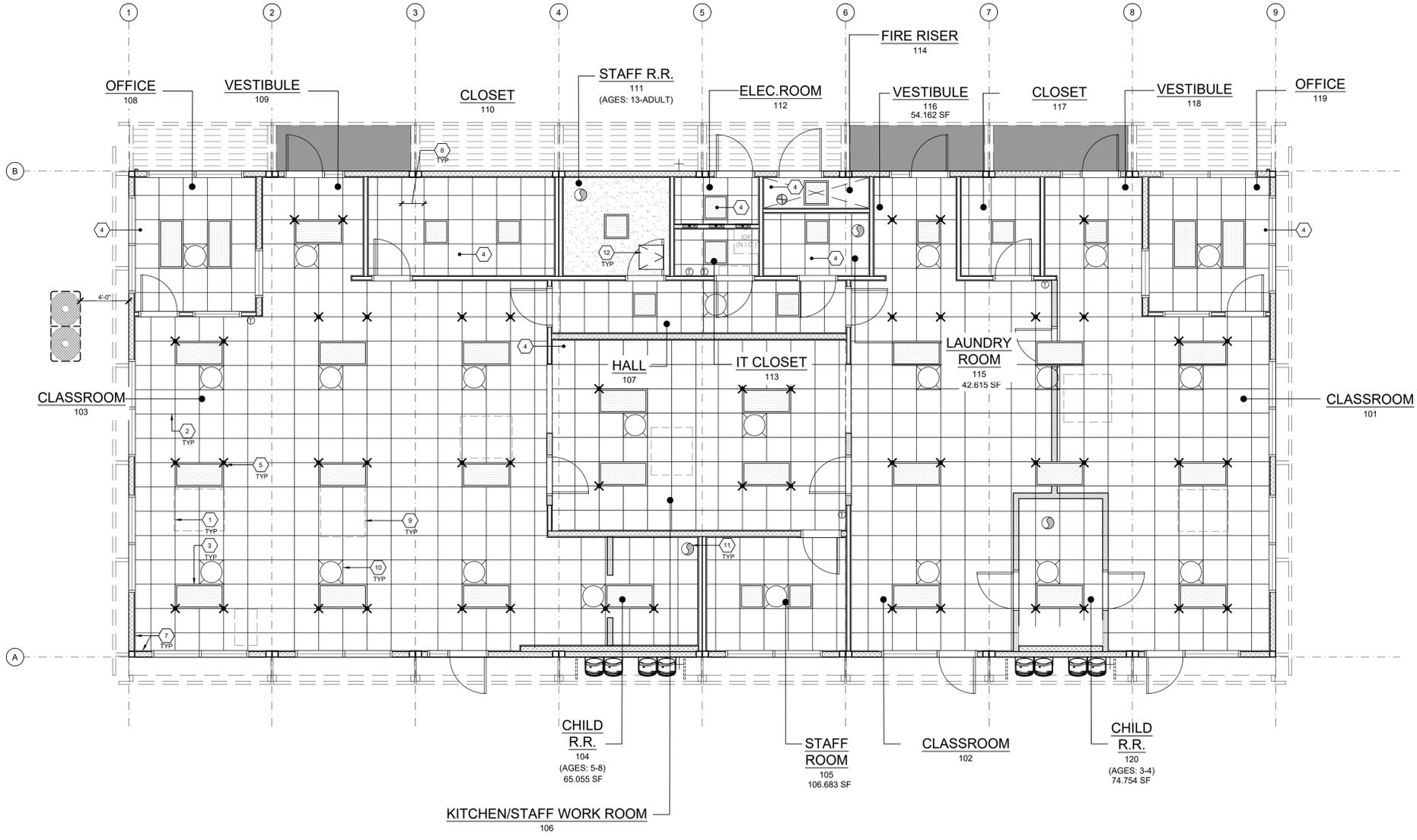
2019 CBC PRE-CHECK (PC) DOCUMENT  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.  
MANUFACTURER PROFESSIONAL OF RECORD ON PC

Professional Engineer Seal: Robert J. Gones, No. 6322, State of California.  
Professional Architect Seal: Patrick Canham, No. C12631, State of California.

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REVISIONS

DRAWN BY: AS NOTED  
SCALE: AS NOTED  
DATE: MMDDYY  
PROJECT NO: XXXX-20  
SHEET TITLE: WALL FRAMING DETAILS - WOOD STUDS  
SHEET NUMBER: S8.1



- 1 MAIN TEE RUNNER TYP. PER TABLE A, SHEET M1.7
- 2 CROSS TEE RUNNER TYP. PER TABLE A, SHEET M1.7
- 3 INTERIOR LIGHT FIXTURE, REFER TO SHEET SHEET E1.0 FOR SPEC'S ATTACHMENT PER DETAIL 7/M1.4
- 4 CEILING HEIGHT @ 9'-0" MIN.
- 5 STRUT/SPLAY WIRE ASSEMBLY, SEE 2/M1.4 FOR DETAILS
- 6 FIXED CEILING END, SEE DETAIL 5A/M1.4
- 7 FREE CEILING END, SEE DETAIL 5B/M1.4
- 8 CENTER SECTION THAT CROSSES MODULE LINE TO BE FIELD INSTALLED, SEE DETAIL 5C/M1.4
- 9 TYP. HVAC UNIT
- 10 SOLA-TUBE - SEE DETAIL 1/M1.6
- 11 EXHAUST FAN
- 12 2'X2' ACCESS CEILING PANEL PER DETAIL 2

- ### KEY NOTES
- WHERE TWO OR MORE HVAC UNITS SERVE A COMMON SPACE, UNITS SHALL BE EQUIPPED WITH A DUCT SMOKE DETECTOR FOR AUTO SHUTDOWN. INTERCONNECT WITH FIRE ALARM SYSTEM.
  - AUTOMATIC SHUT-OFF IS NOT REQUIRED WHEN ALL OCCUPIED ROOMS SERVED BY THE AIR HANDLING EQUIPMENT HAVE DIRECT ACCESS TO THE EXTERIOR AND THE TRAVEL DISTANCE DOES NOT EXCEED 100 FT. PER C.M.C. 608.1 EXCEPTION #2.
  - LIGHT FIXTURES MAY BE INSTALLED ROTATED 90° FROM SHOWN TO MATCH T-GRID.
  - PC TITLE 24 HAS BEEN RUN FOR WORSE CASE OUTDOOR VENTILATION REQUIREMENTS (SEE OUTDOOR VENTILATION ON SHEET N2.0 FOR OUR OUTDOOR VENTILATION DESIGN REQUIREMENT NOTES)

### GENERAL NOTES

MARK	DESCRIPTION	CFM	WATTS	S.P.	VOLT/PH	
EF 1	EXHAUST FAN	110	47.3	.10"	120-10	NUTONE AN110 CEILING MOUNTED 180W INPUT 10 LBS (OR EQUAL)
EF 2	EXHAUST FAN	210	127	.125"	120-10	BROAN L200 CEILING MOUNTED 180W INPUT 23 LBS (OR EQUAL)

- VENT EXHAUST FAN THROUGH ROOF.
- FANS MUST WEIGH LESS THAN 75 LBS.
- LIGHTING FIXTURES MAY BE INSTALLED ROTATED 90° FROM SHOWN TO MATCH T-GRID LAYOUT.

- ### EXHAUST FAN SCHEDULE
- MEP COMPONENT ANCHORAGE NOTES
- ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 AND 30.
- ALL PERMANENT EQUIPMENT AND COMPONENTS.
  - 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.
  - 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 REFERENCE 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:
- 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.
  - 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 NOTES
- PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3.3 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 #) # \_\_\_\_\_.

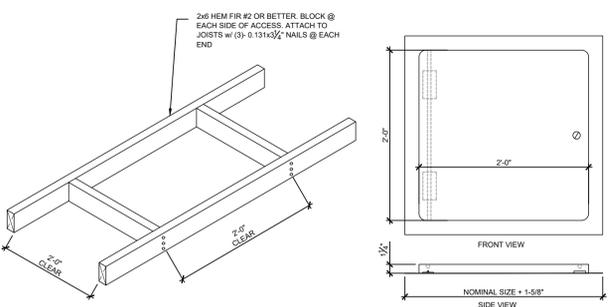
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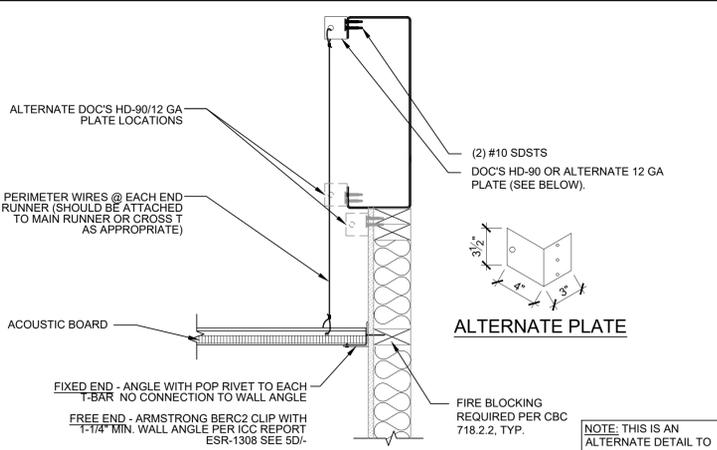
DRAWN BY: KA  
SCALE: AS NOTED  
DATE: 07/28/22  
PROJECT NO: 1665-21  
SHEET TITLE: TYPICAL REFLECTED CEILING PLAN  
SHEET NUMBER:

### TYPICAL REFLECTED CEILING PLAN

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



ATTIC ACCESS HATCH DETAIL SCALE: 1" = 1'-0"



SUSPENDED CEILING ATTACHMENT DETAIL SCALE: 1-1/2" = 1'-0"

### BUILDING SIZE SCHEDULE

BUILDING SIZE (FT)	TOTAL # OF 12'-0" WIDE MODULES	TOTAL # OF CENTER MODULES	OVERALL BUILDING WIDTH'
<input type="checkbox"/> 24'x40'	2	0	23'-6 1/2"
<input type="checkbox"/> 36'x40'	3	1	35'-6 3/4"
<input type="checkbox"/> 48'x40'	4	2	47'-5"
<input type="checkbox"/> 60'x40'	5	3	59'-3 1/4"
<input type="checkbox"/> 72'x40'	6	4	71'-1 1/2"
<input type="checkbox"/> 84'x40'	7	5	82'-1 1/4"
<input checked="" type="checkbox"/> 96'x40'	8	6	94'-10"
<input type="checkbox"/> 108'x40'	9	7	106'-8 1/4"
<input type="checkbox"/> 120'x40'	10	8	118'-6 1/2"

- NOTES:
- TOTAL BUILDING WIDTH INCLUDES 1/4" PER MODULE CONSTRUCTION TOLERANCE PER FOUNDATION SHEETS S1.1, S1.2 & S1.3

BUILDING SIZE SCHEDULE

### MEP COMPONENT ANCHORAGE NOTES

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DATE: 08/23/2022

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PRE-CHECKED SET NAME  
24' x 40' THRU 120' x 40'  
(LOW SEISMIC)  
**GEN7**  
by AMS

SITE SPECIFIC PROJECT NAME  
SOLANO COMMUNITY COLLEGE DISTRICT  
CHILD DEVELOPMENT CENTER  
(1) 96'x40' BUILDING

2019 CBC PRE-CHECK (PC) DOCUMENT  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSURE ARCHITECT  
PATRICK CANNON  
No. C12631  
Ren. 3-31-23  
STATE OF CALIFORNIA

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REVISIONS

DRAWN BY: KA  
SCALE: AS NOTED  
DATE: 07/28/22  
PROJECT NO: 1665-21  
SHEET TITLE: TYPICAL REFLECTED CEILING PLAN  
SHEET NUMBER:

M1.0

**CU** CONDENSING UNIT - TOTAL OF (1)  
 MITSUBISHI ELECTRIC TRANE HVAC US: CITY  
 MULTI VRP OUTDOOR UNIT  
 MODEL: TURYP1443AN40AN  
 COOLING - BTU / h - 144,000  
 HEATING - BTU / h - 160,000  
 208 / 230V, 3 PHASE, 60Hz  
 DIMENSIONS - 71-5/8"H x 48-7/8"W x 29-5/32"D  
 WEIGHT - 646 LBS

**ERV** LOSSNAY ENERGY RECOVERY VENTILATOR - TOTAL OF (2)  
 MITSUBISHI ELECTRIC TRANE  
 MODEL: TLGHF0300RVX02A  
 208 / 230V, 1 PHASE, 60Hz  
 DIMENSIONS - 50-5/16" x 51-5/16" x 15-29/32"  
 WEIGHT - 123 LBS  
 INSTALL PER 3/M1.5

**ERV** LOSSNAY ENERGY RECOVERY VENTILATOR - TOTAL OF (1)  
 MITSUBISHI ELECTRIC TRANE  
 MODEL: TLGHF0300RVX02A  
 208 / 230V, 1 PHASE, 60Hz  
 DIMENSIONS - 41-7/8" x 41-3/16" x 13-1/32"  
 WEIGHT - 75 LBS  
 INSTALL PER 3/M1.5

**CC1** CEILING CONCEALED (DUCTED) INDOOR UNIT - TOTAL OF (2)  
 MITSUBISHI ELECTRIC TRANE  
 MODEL: TPEFY054M142A  
 COOLING - BTU / h - 54,000  
 HEATING - BTU / h - 60,000  
 208 / 230V, 1 PHASE, 60Hz  
 DIMENSIONS - 15"H x 47-1/16"W x 35-7/16"D  
 WEIGHT - 157 LBS  
 INSTALL PER 3/M1.5

**CC2** CEILING CONCEALED (DUCTED) INDOOR UNIT - TOTAL OF (1)  
 MITSUBISHI ELECTRIC TRANE  
 MODEL: TPEFY036M142A  
 COOLING - BTU / h - 36,000  
 HEATING - BTU / h - 40,000  
 208 / 230V, 1 PHASE, 60Hz  
 DIMENSIONS - 15"H x 47-1/16"W x 35-7/16"D  
 WEIGHT - 153 LBS  
 INSTALL PER 3/M1.5

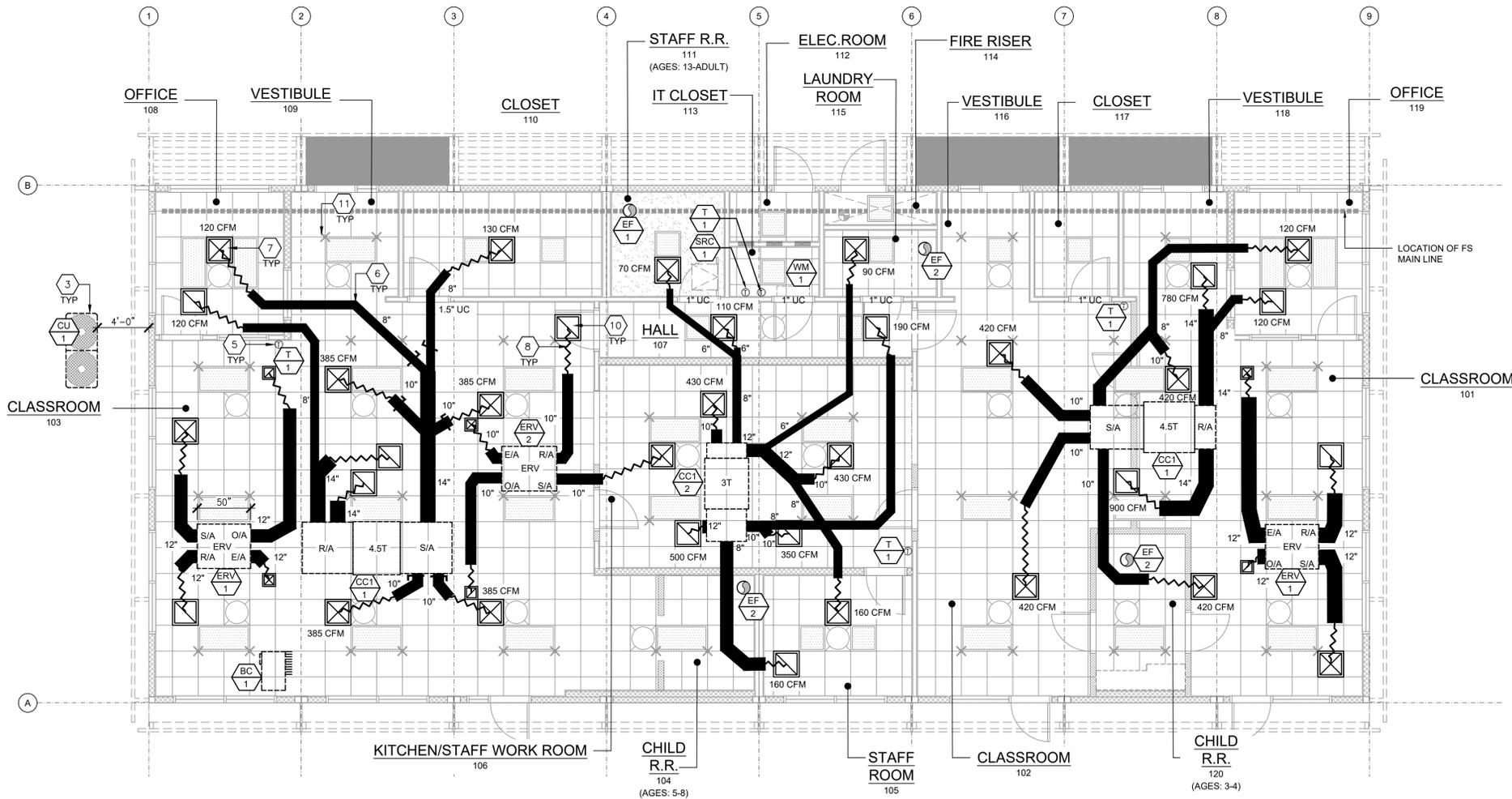
**WM** WALL-MOUNTED INDOOR UNIT - TOTAL OF (1)  
 MITSUBISHI ELECTRIC TRANE  
 MODEL: TPKFY012LM140A  
 COOLING - BTU / h - 12,000  
 HEATING - BTU / h - 13,500  
 208 / 230V, 1 PHASE, 60Hz  
 DIMENSIONS - 11-25/32"H x 30-7/16"W x 9-11/35"D  
 WEIGHT - 24.5 LBS

**T** DELUX MA REMOTE CONTROLLER -  
 TOTAL OF (4)  
 MITSUBISHI ELECTRIC TRANE  
 MODEL: TAR-40MAU  
 POWER SUPPLIED FROM INDOOR UNITS  
 DIMENSIONS - 4-3/4"W x 4-3/4"H x 0.57"D  
 WEIGHT - 0.25 LBS

**BC** MAIN BC CONTROLLER -  
 TOTAL OF (1)  
 MITSUBISHI ELECTRIC TRANE  
 MODEL: TCMBM0108JA11N4  
 208/230V, 1 PHASE, 60 Hz  
 DIMENSIONS - 9-7/8" x 35-7/8" x 21-1/2"  
 WEIGHT - 106 LBS

**SRC** SYSTEM REMOTE CONTROLLER - TOTAL OF (1)  
 MITSUBISHI ELECTRIC TRANE  
 MODEL: TE-200A  
 DIMENSIONS 11-5/32"W x 7-55/64"H x 2-17/32"D  
 WEIGHT - 5-9/16 LBS

EA - EXHAUST AIR OUTLET  
 OA - OUTSIDE AIR INTAKE  
 RA - RETURN AIR  
 SA - SUPPLY AIR  
 R - RETURN  
 S - SUPPLY



**HVAC SCHEDULE & LEGEND**

MARK	DESCRIPTION	CFM	WATTS	S.P.	VOLT/PH	NOTES
EF 1	EXHAUST FAN	110	47.3	.10"	120-1Ø	NUTONE AN110 CEILING MOUNTED 180W INPUT 10 LBS (OR EQUAL) ACHORAGE PER DETAIL 11 ON M1.6
EF 2	EXHAUST FAN	210	127	.125"	120-1Ø	BROAN L200 CEILING MOUNTED 180W INPUT 23 LBS (OR EQUAL) ACHORAGE PER DETAIL 11 ON M1.6
EF 3	EXHAUST FAN	308	212	.125"	120-1Ø	BROAN L300 CEILING MOUNTED 180W INPUT 23 LBS (OR EQUAL)

- VENT EXHAUST FAN THROUGH ROOF.
- FANS MUST WEIGH LESS THAN 75 LBS.
- LIGHTING FIXTURES MAY BE INSTALLED ROTATED 90° FROM SHOWN TO MATCH T-GRID LAYOUT.

**EXHAUST FAN SCHEDULE**

**MECHANICAL PLAN**

- WHERE TWO OR MORE HVAC UNITS SERVE A COMMON SPACE, UNITS SHALL BE EQUIPPED WITH A DUCT SMOKE DETECTOR FOR AUTOMATIC SHUTDOWN. INTERCONNECT WITH FIRE ALARM SYSTEM.
- AIR-MOVING SYSTEMS SUPPLYING AIR IN EXCESS OF 2000 CUBIC FEET PER MINUTE TO ENCLOSED SPACES WITHIN THE BUILDING SHALL BE EQUIPPED WITH AN AUTOMATIC SHUTOFF.
- AUTOMATIC SHUT-OFF IS NOT REQUIRED WHEN OCCUPIED ROOMS SERVED BY THE AIR HANDLING EQUIPMENT HAVE A DIRECT EXIT TO THE EXTERIOR AND THE TRAVEL DISTANCE DOES NOT EXCEED 100 FT. (PER C.M.C. 608.1 EXCEPTION #2.)
- LIGHTING FIXTURE MAY BE INSTALLED ROTATED 90° FROM SHOWN TO MATCH T-GRID.
- FOR T-BAR CEILING SPECIFICATIONS, SEE M1.7.

**SHEET NOTES**

- NOT USED
- NOT USED
- CONDENSER - GROUND MOUNT BY OTHERS
- AIR HANDLER UNIT (IN ROOM) - SEE 3/M1.5.
- AIR HANDLER UNIT (ABOVE CEILING) - SEE DETAIL 3/M1.5. INSTALL FRESH AIR INTAKE THRU ROOF INTAKE, PENETRATION PER 2/M1.6 SIM.
- NOT USED
- THERMOSTAT - 48" A.F.F, MAX TO TOP OF BOX
- CONCEALED SUPPLY AIR DUCT ABOVE T-BAR CEILING - SEE 1/M1.4.
- TYPICAL 4-WAY SUPPLY AIR REGISTER LOCATION AND SIZE MAY VARY PER CEILING LAYOUT AND BUILDING SIZE - SEE 7/M1.5.
- FLEX DUCT - NOMINAL 10" MIN. (MAY VARY) - SEE 8/M1.5.
- RETURN AIR AS PART OF UNIT.
- RETURN AIR REGISTER - SEE 7/M1.5.
- STRUT/SPRAY WIRE ASSEMBLY, SEE 6/M1.4 FOR DETAILS

NOTE: FLEXIBLE AIR DUCTS AND CONNECTORS SHALL BE NOT MORE THAN 5 FEET IN LENGTH AND SHALL NOT BE USED IN LIEU OF RIGID ELBOWS OR FITTINGS. FLEXIBLE AIR DUCTS SHALL BE PERMITTED TO BE USED AS AN ELBOW AT A TERMINAL DEVICE PER ENERGY CODE 120.4 AND CMC 603.4.1

**KEY NOTES**

SCALE: 3/16" = 1'-0" 1

BUILDING SIZE (FT)	TOTAL # OF 12'-0" WIDE MODULES	TOTAL # OF CENTER MODULES	OVERALL BUILDING WIDTH'
24'x40'	2	0	23'-6 1/2"
36'x40'	3	1	35'-6 3/4"
48'x40'	4	2	47'-5"
60'x40'	5	3	59'-3 1/2"
72'x40'	6	4	71'-1 1/2"
84'x40'	7	5	82'-11 3/4"
96'x40'	8	6	94'-10"
108'x40'	9	7	106'-8 3/4"
120'x40'	10	8	118'-6 1/2"

**NOTES:**

- TOTAL BUILDING WIDTH INCLUDES 1/4" PER MODULE CONSTRUCTION TOLERANCE PER FOUNDATION SHEET S1.1
- REFER TO SHEET M1.7 FOR TYPICAL NOTES AND CALL OUTS.

**BUILDING SIZE SCHEDULE**

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 REVIEWED FOR  
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 DATE: 08/23/2022



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PRE-CHECKED SET NAME

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SITE SPECIFIC PROJECT NAME

SOLANO COMMUNITY COLLEGE DISTRICT  
 CHILD DEVELOPMENT CENTER  
 (1) 96'x40' BUILDING

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**REVISIONS**

NO.	DESCRIPTION
1	
2	
3	
4	

DRAWN BY: KA

SCALE: AS NOTED

DATE: 07/28/22

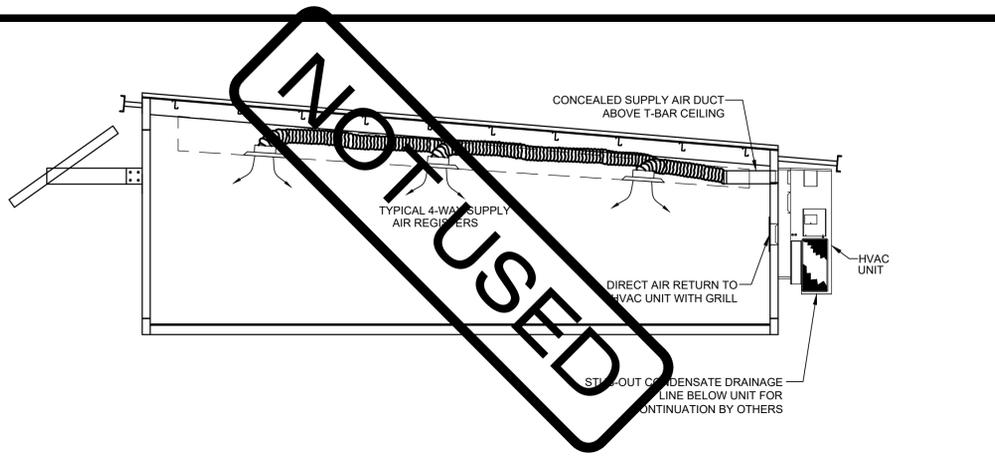
PROJECT NO: 1665-21

SHEET TITLE:

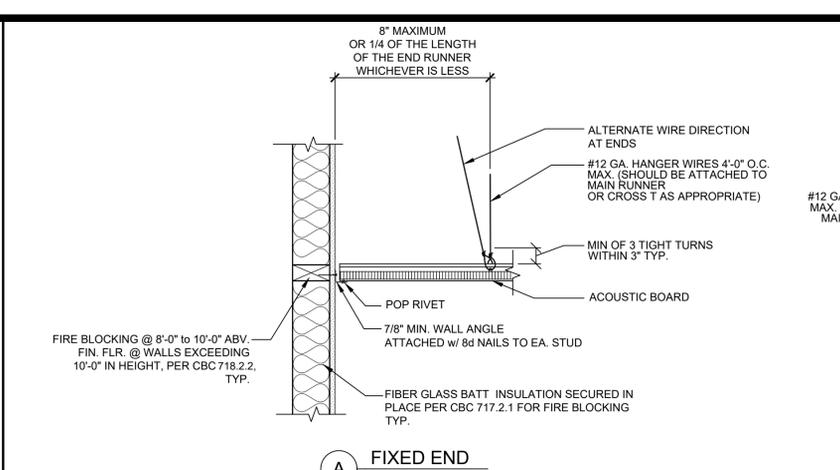
**MECHANICAL PLAN  
 OPTIONS**

SHEET NUMBER:

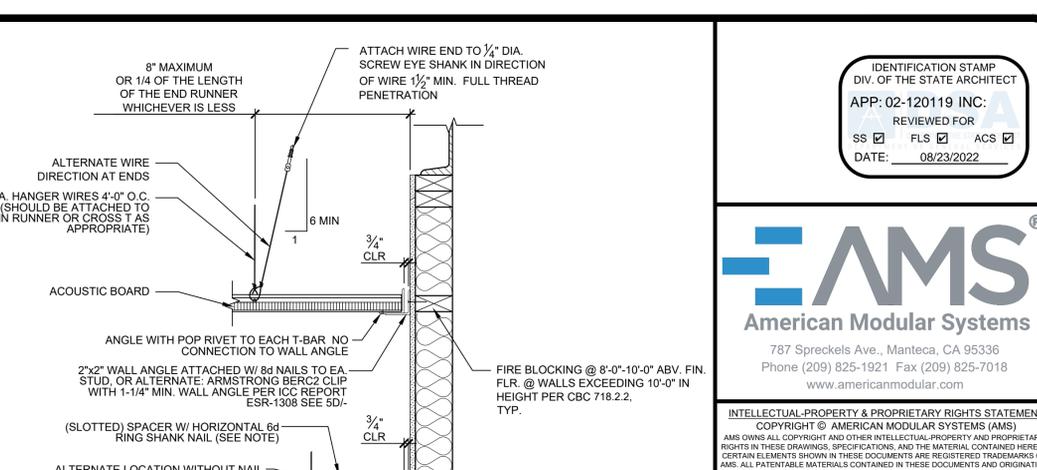
**M1.1A**



TYPICAL MECHANICAL DETAIL SECTION SCALE: 3/16" = 1'-0" 1



FIXED END SCALE: 3/16" = 1'-0" 1



FREE END SCALE: 3/16" = 1'-0" 1

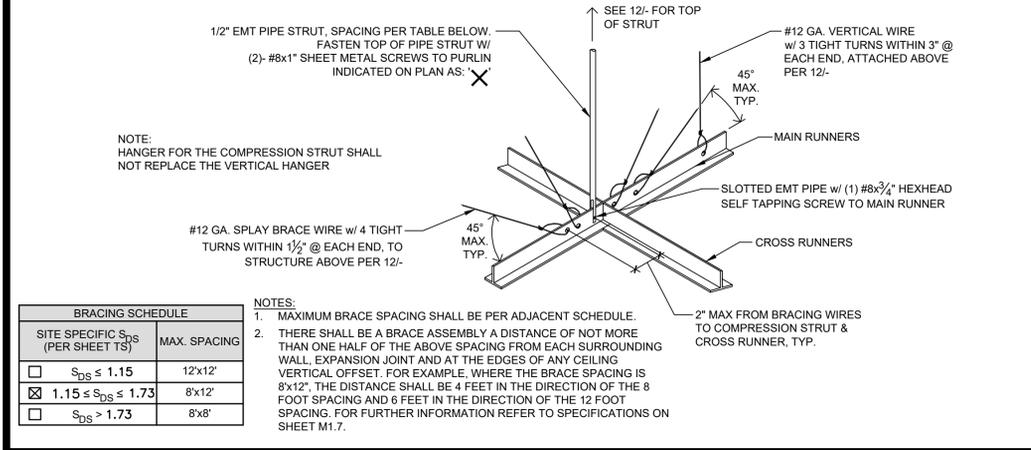
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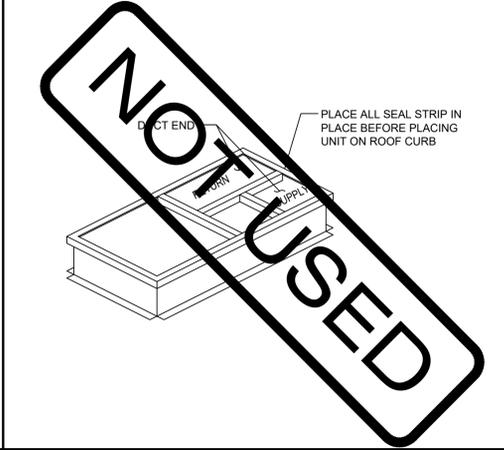
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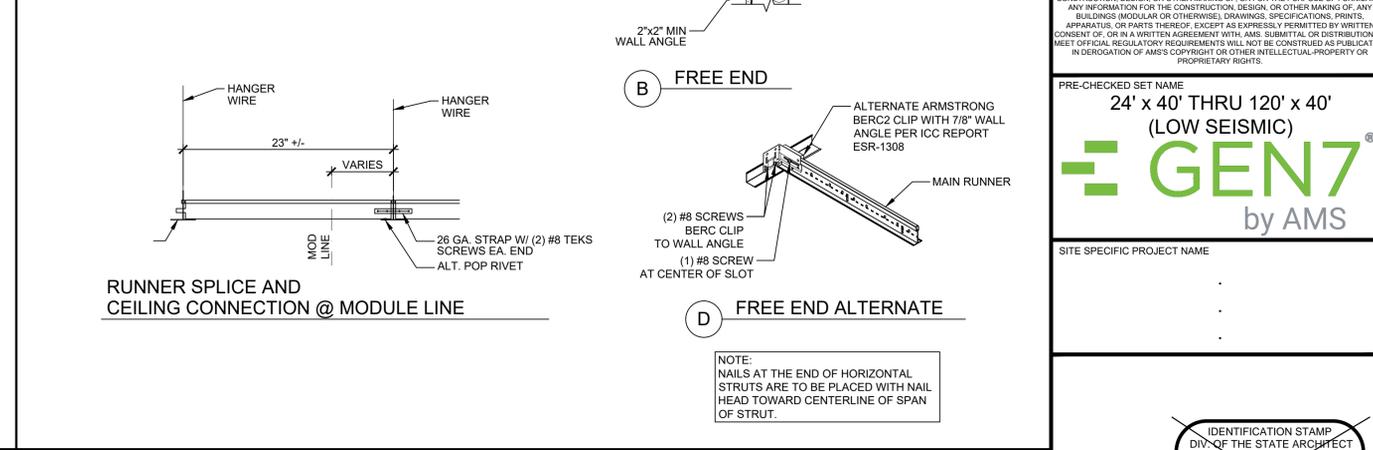
SITE SPECIFIC PROJECT NAME



STRUT/SPLAY WIRE ASSEMBLY DETAIL SCALE: N.T.S. 3



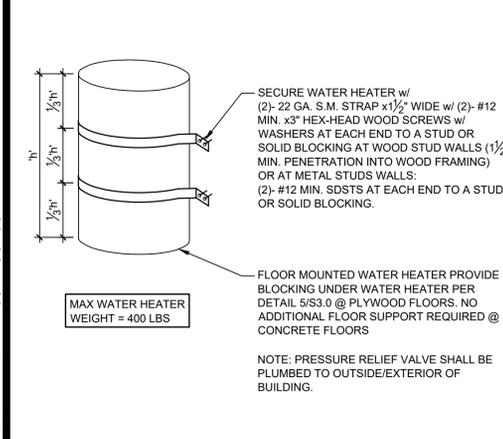
ROOF CURB SEAL DETAIL SCALE: N.T.S. 4



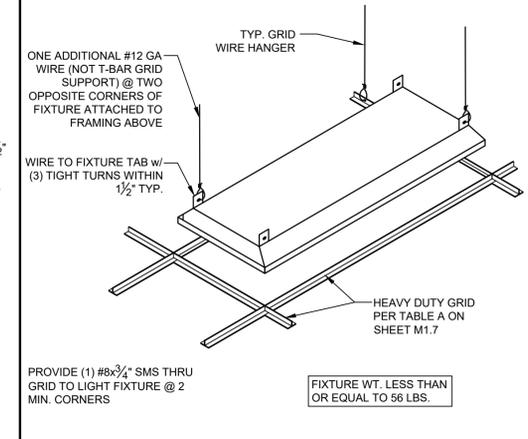
CEILING ATTACHMENTS DETAIL SCALE: 1/12" = 1'-0" 5

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APP: 02-118326 PC  
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DATE: 07/22/2021

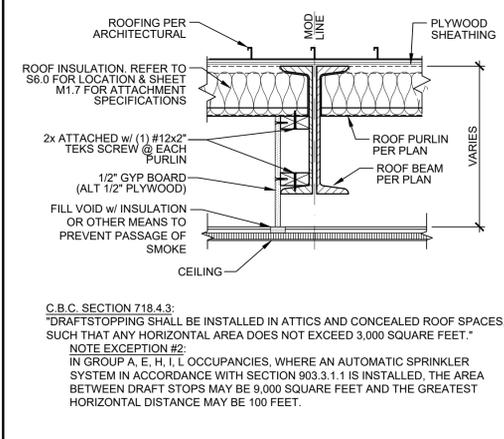
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**Patrick Canfield**  
No. C12631  
Ren. 3-31-23  
STATE OF CALIFORNIA



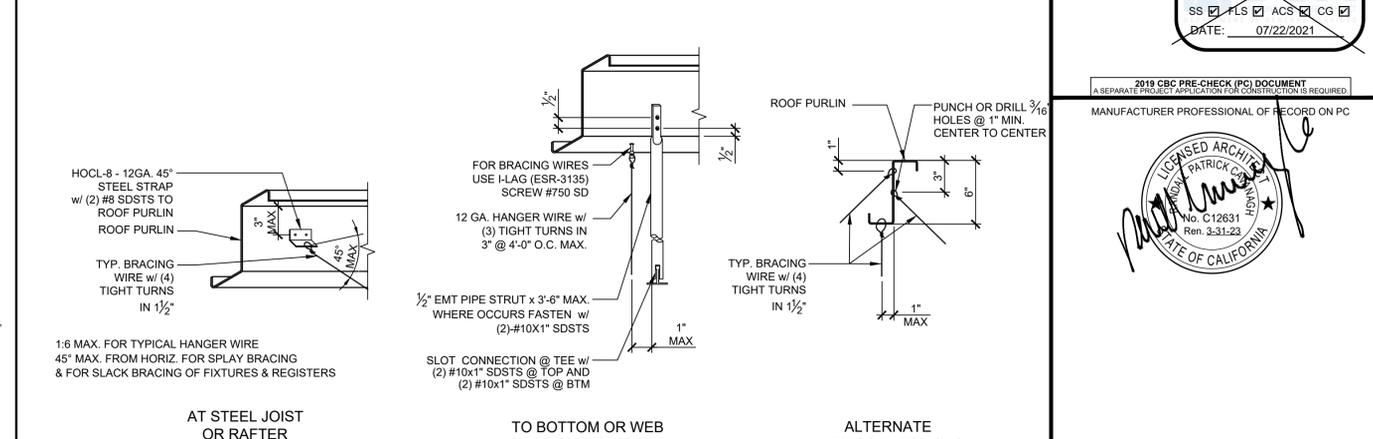
FLOOR MOUNTED WATER HEATER SUPPORT DETAIL SCALE: N.T.S. 6



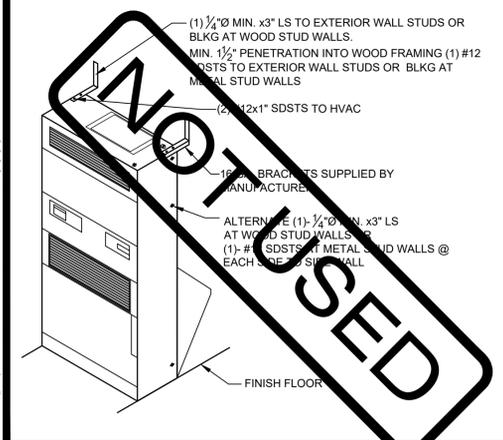
LIGHT FIXTURE ATTACHMENT DETAIL SCALE: N.T.S. 7



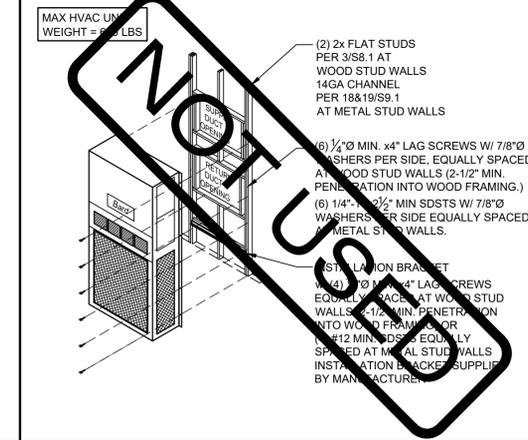
DRAFT STOP DETAIL SCALE: 1/12" = 1'-0" 8



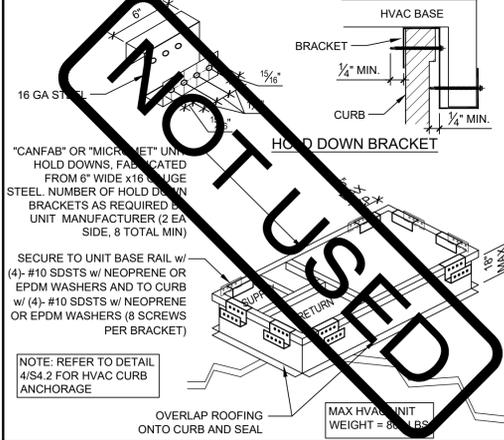
CONNECTION TO PURLINS DETAIL SCALE: 1/12" = 1'-0" 12



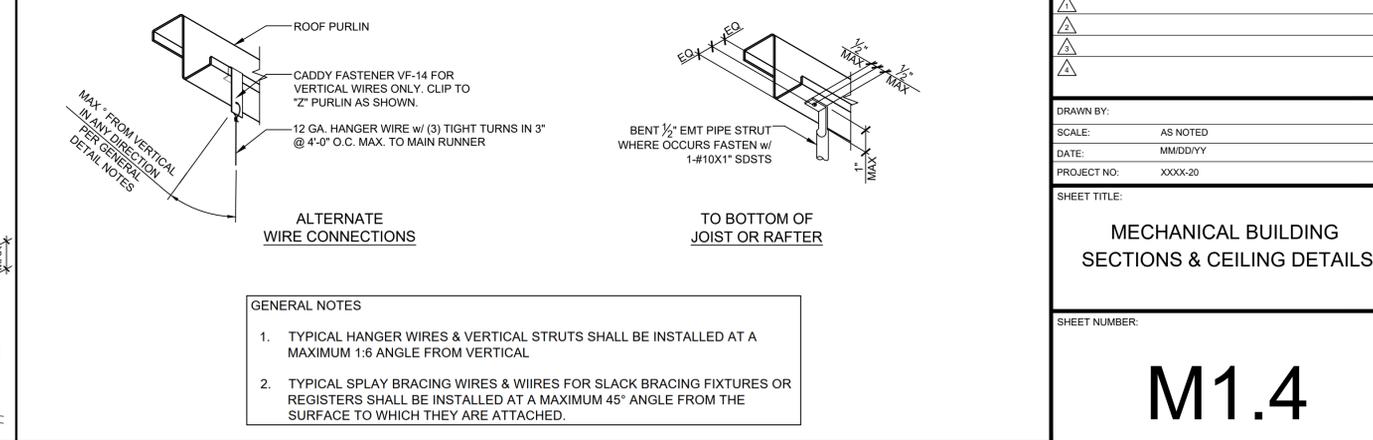
INTERIOR HVAC ANCHORAGE SCALE: N.T.S. 9



WALL MOUNT HVAC ANCHORAGE SCALE: N.T.S. 9



ROOF CURB ELEVATION-OPTIONAL SCALE: N.T.S. 10



CONNECTION TO PURLINS DETAIL SCALE: 1/12" = 1'-0" 12

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REVISIONS


DRAWN BY: \_\_\_\_\_  
SCALE: AS NOTED  
DATE: MM/DD/YYYY  
PROJECT NO: XXXX-20  
SHEET TITLE: MECHANICAL BUILDING SECTIONS & CEILING DETAILS  
SHEET NUMBER: M1.4



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 by AMS

SITE SPECIFIC PROJECT NAME  
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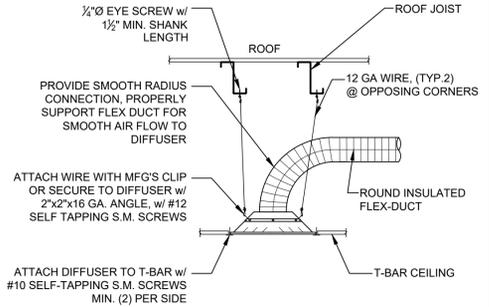
REGISTERED ARCHITECT  
 PATRICK CAMPBELL  
 No. C12631  
 Ren. 3-31-23  
 STATE OF CALIFORNIA

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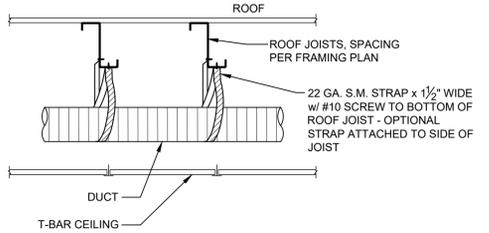
DRAWN BY:  
 SCALE: AS NOTED  
 DATE: MMDDYY  
 PROJECT NO: XXXX-20  
 SHEET TITLE:  
**CEILING & MECHANICAL DETAILS**  
 SHEET NUMBER:

**M1.5**

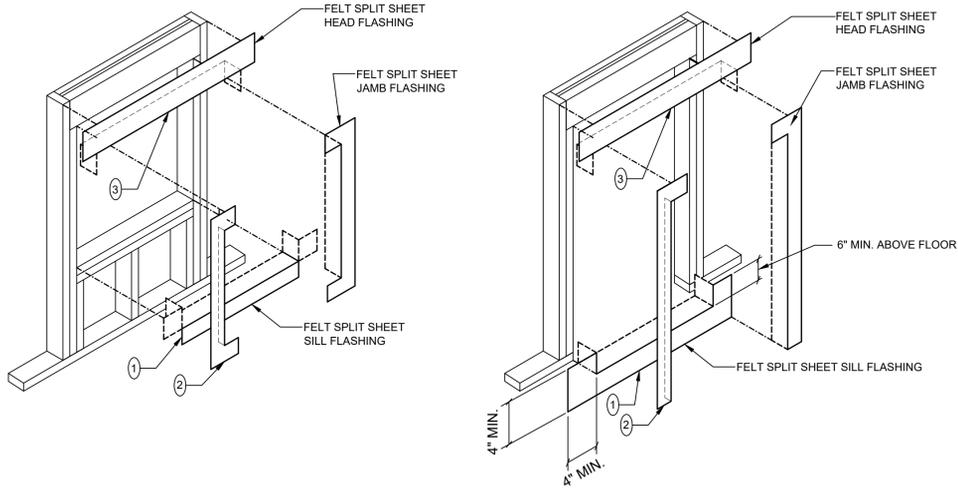


**SUPPLY - RETURN DIFFUSER MOUNTING DETAIL** SCALE: N.T.S. 7

- NOTES:
- DUCTWORK SHALL BE SUPPORTED FROM ROOF JOISTS AT 4'-0" O.C. MAX TO ELIMINATE SAGGING.
  - FLEX DUCT (5'-0" MAX LENGTH) SHALL BE PULLED TIGHT TO ELIMINATE SAGGING.
  - DUCT TO PLENUM ATTACHMENT SHALL BE (3) #8 SCREWS & COVERED WITH 367-17 TAPE (UL181B-FX).
  - FOR DUCT ATTACHMENT TO DIFFUSER - SEE DETAIL 7/-.
  - ALL DUCTS TO BE SEALED WITH 367 MASTIC TAPE, OUTSIDE OF THE INSULATING LINER ON THE FLEX DUCT TO BE SEALED WITH 558CA CODE APPROVED DUCT TAPE.

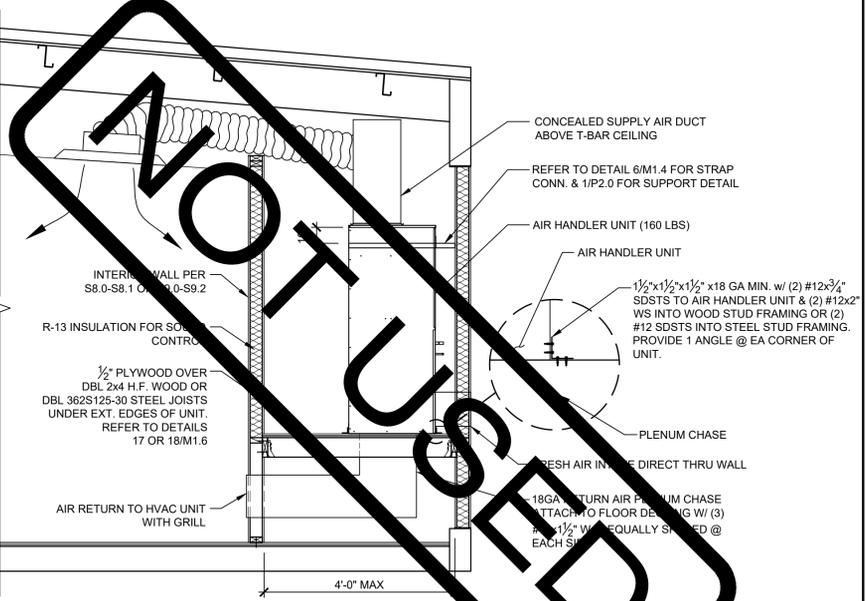


**FLEX DUCTING SUPPORT DETAIL** SCALE: N.T.S. 8



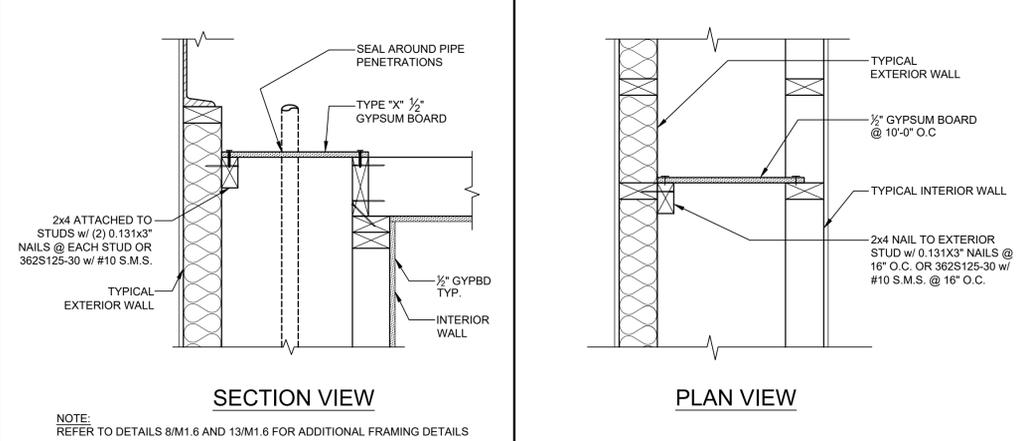
**WINDOW CONDITION**      **DOOR CONDITION**

# = SEQUENCE OF ORDER



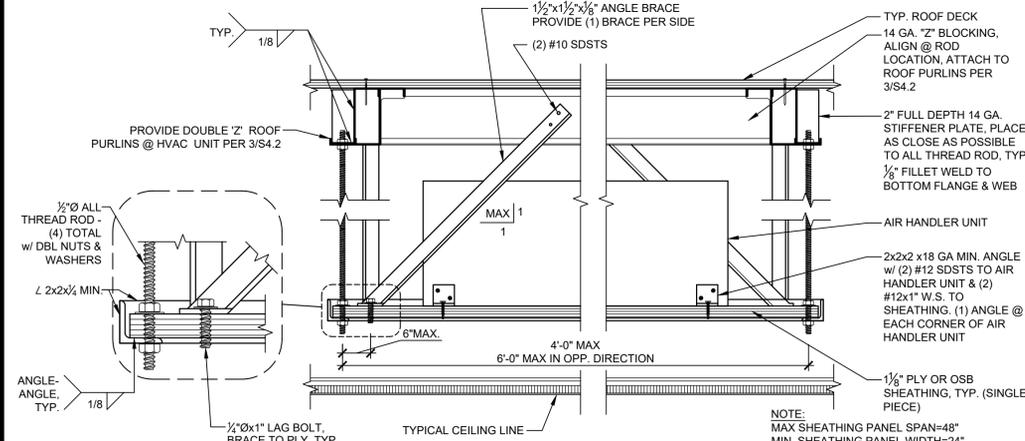
**SPLIT SYSTEM CROSS SECTION** SCALE: N.T.S. 1

**FLASHING @ WALL OPENINGS** SCALE: N.T.S. 2



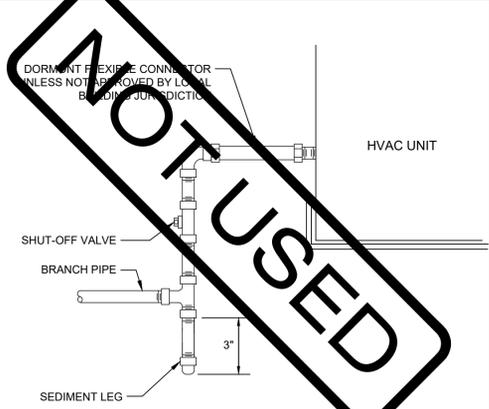
**FIRE BLOCK DETAIL @ PLUMBING CHASE** SCALE: N.T.S. 4

**FIRE BLOCK DETAIL @ PLUMBING CHASE** SCALE: N.T.S. 5

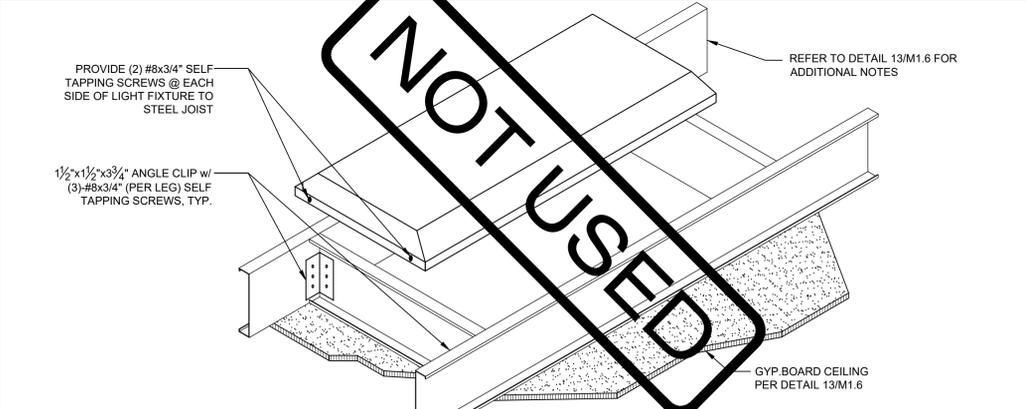


**HVAC ATTIC MOUNTED SPLIT SYSTEM** SCALE: N.T.S. 3

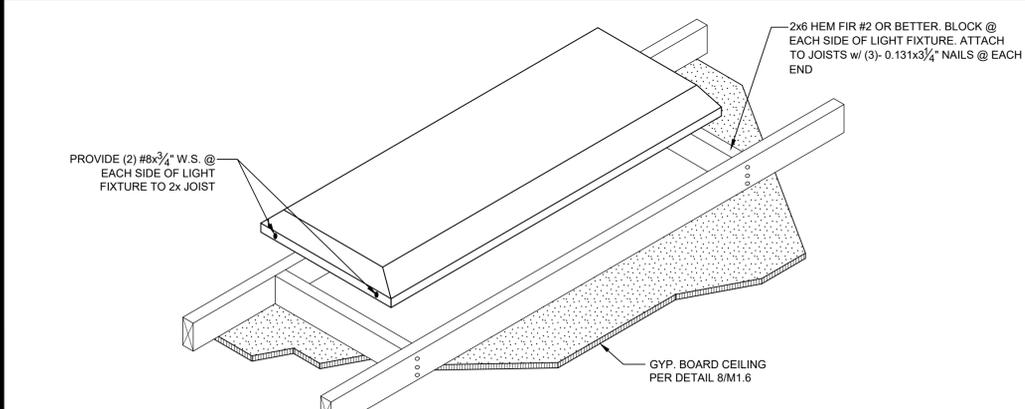
**CONDENSATE DETAIL** SCALE: N.T.S. 9



**GAS CONNECTION DETAIL** SCALE: N.T.S. 10



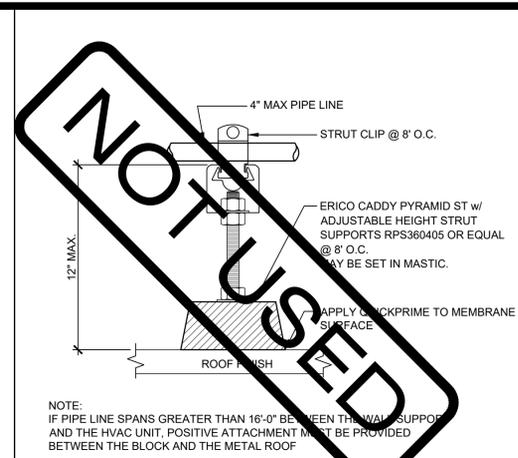
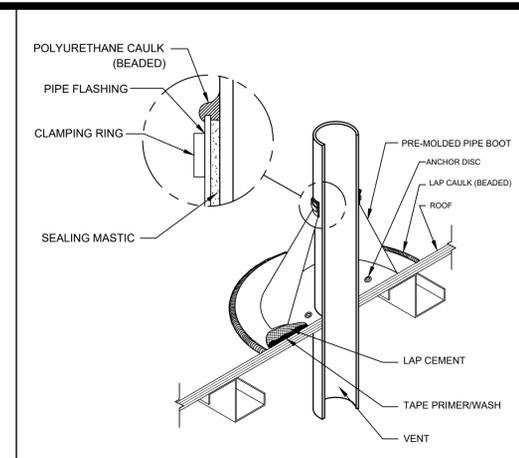
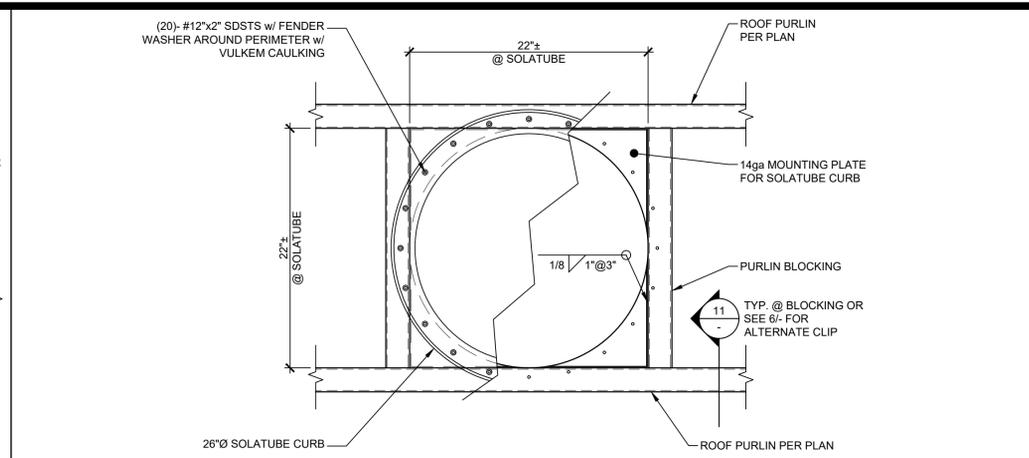
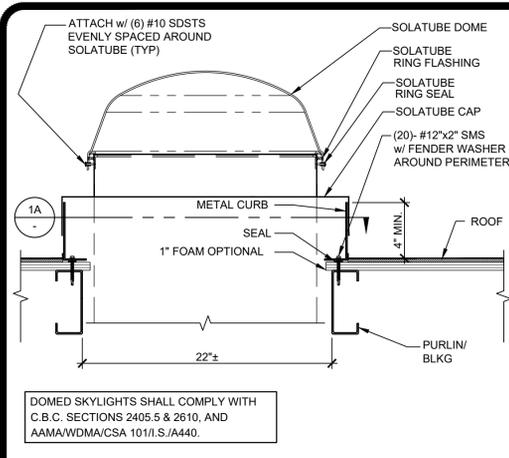
**LIGHT FIXTURE ATTACHMENT DETAIL w/ METAL STUDS** SCALE: N.T.S. 6



**LIGHT FIXTURE ATTACHMENT DETAIL GYPSUM BOARD CEILING OPTION** SCALE: N.T.S. 6A

**NOT USED**

**NOT USED**

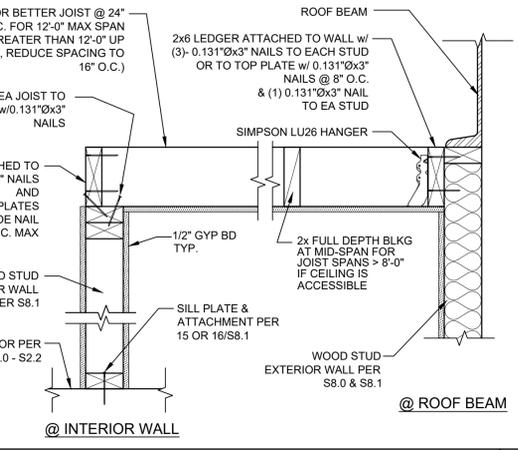
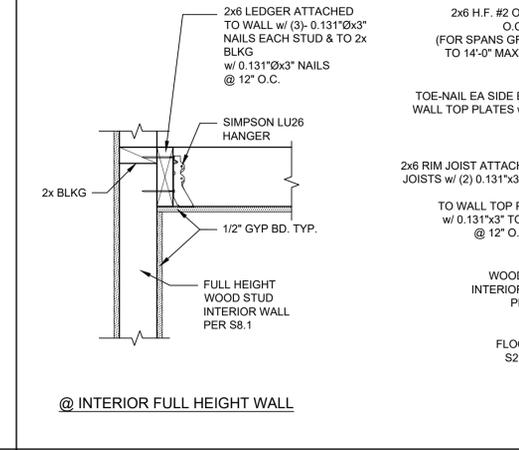
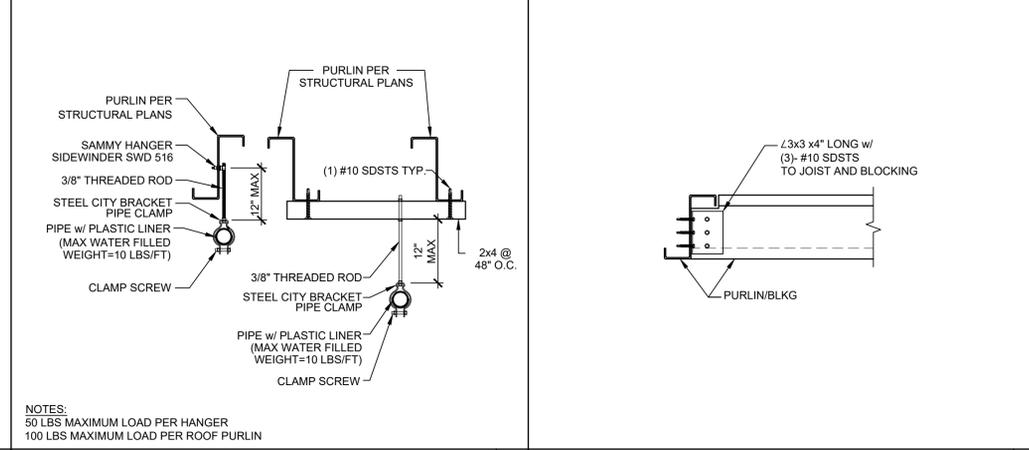
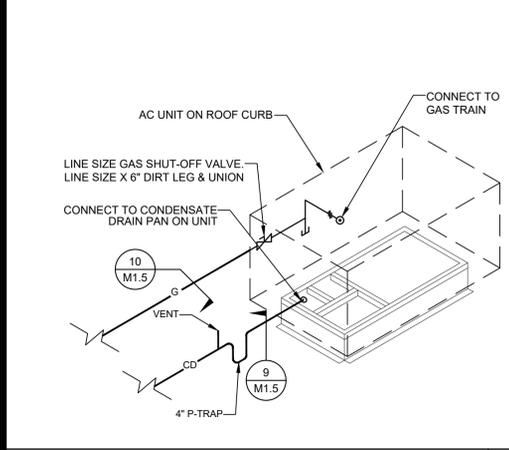


SOLATUBE ATTACHMENT DETAIL SCALE: 1-1/2" = 1'-0" 1

SOLATUBE CURB ATTACHMENT DETAIL SCALE: 1-1/2" = 1'-0" 1A

VENT THRU ROOF PENETRATION DETAIL NOT TO SCALE 2

ROOF-TOP PIPE SUPPORT BLOCK NOT TO SCALE 3

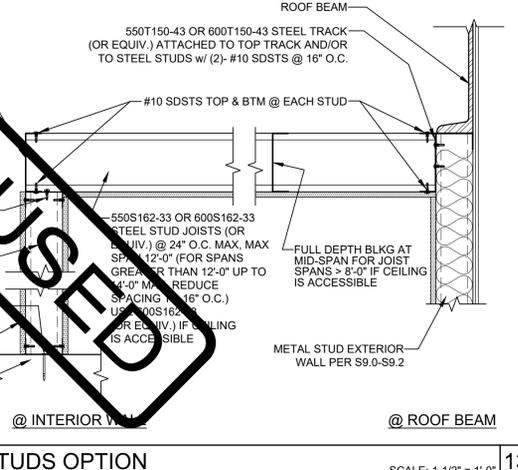
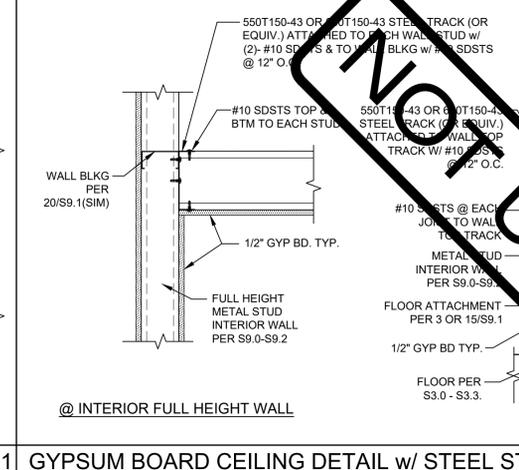
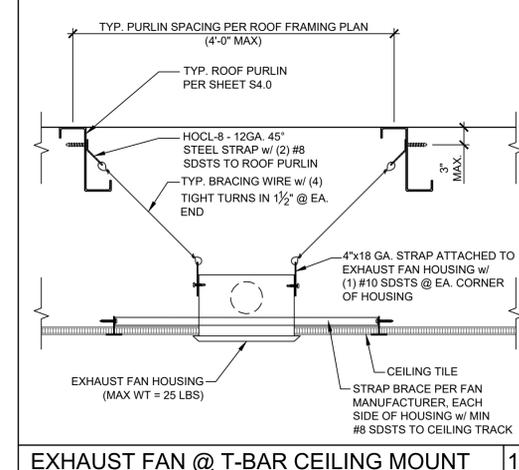
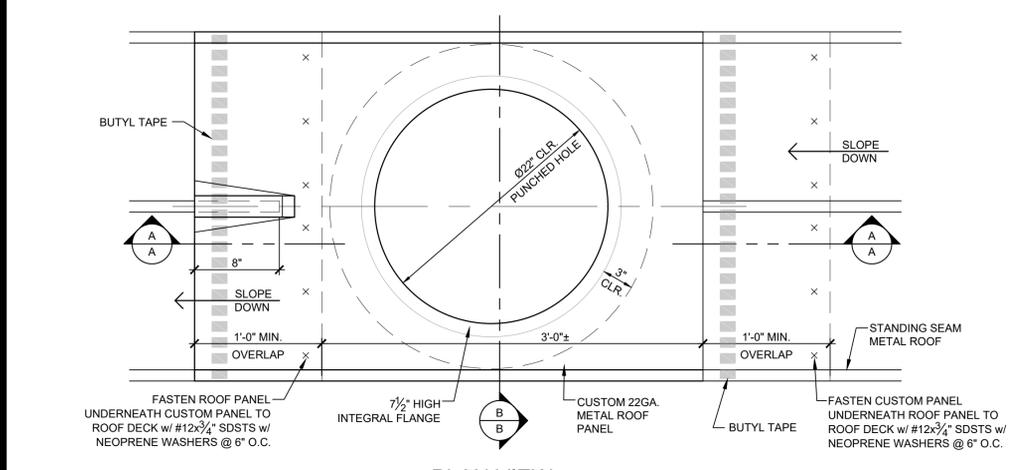


HVAC UNIT PIPING NOT TO SCALE 4

PIPE HANGER DETAIL SCALE: 1-1/2" = 1'-0" 5

GYPSUM BOARD CEILING DETAIL w/ WOOD STUDS OPTION SCALE: 1-1/2" = 1'-0" 8

GYPSUM BOARD CEILING DETAIL w/ STEEL STUDS OPTION SCALE: 1-1/2" = 1'-0" 13



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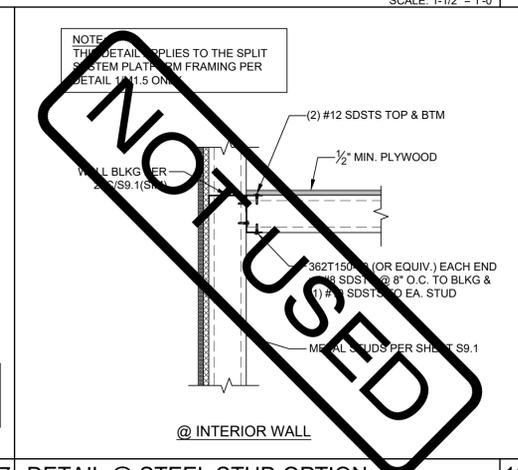
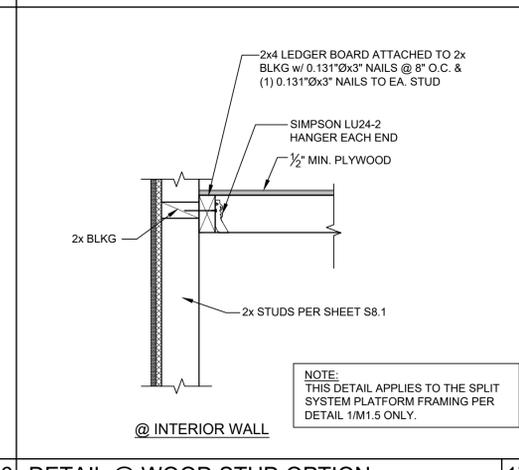
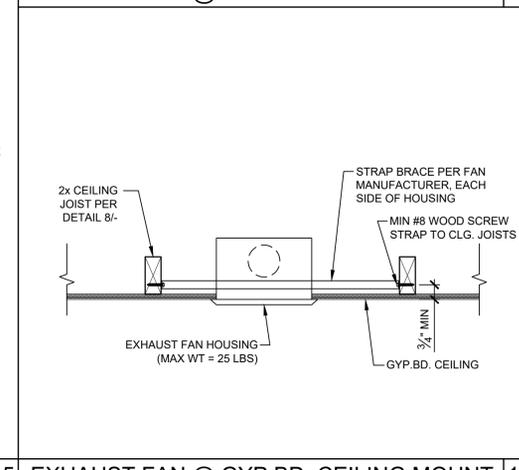
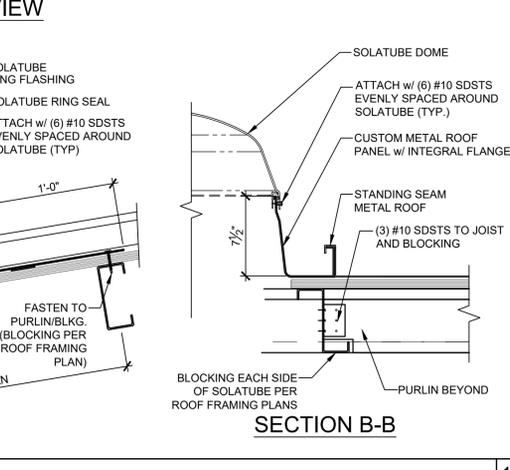
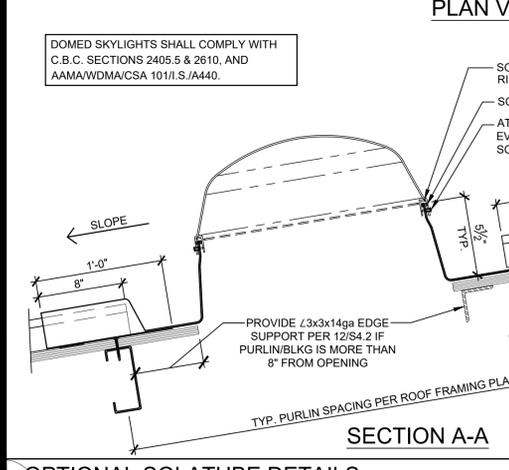
2019 CBC PRE-CHECK (PC) DOCUMENT  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.  
MANUFACTURER PROFESSIONAL OF RECORD ON PC

REGISTERED ARCHITECT  
PATRICK CANNON  
No. C12631  
Ren. 2-31-23  
STATE OF CALIFORNIA

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DRAWN BY:  
SCALE: AS NOTED  
DATE: MM/DD/YYYY  
PROJECT NO: XXXX-20  
SHEET TITLE:  
MECHANICAL ROOF DETAILS  
SHEET NUMBER:



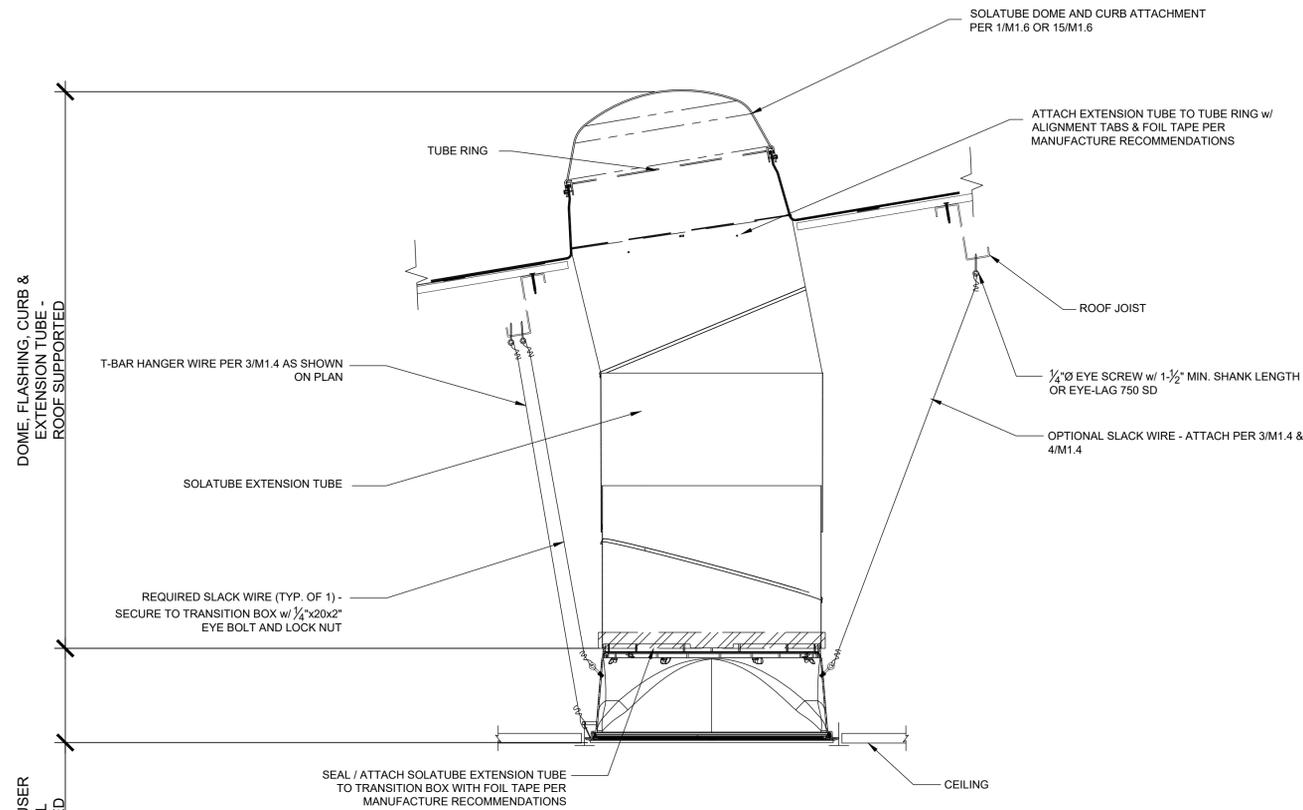
OPTIONAL SOLATUBE DETAILS SCALE: 1-1/2" = 1'-0" 15

EXHAUST FAN @ GYP.BD. CEILING MOUNT SCALE: 1-1/2" = 1'-0" 16

DETAIL @ WOOD STUD OPTION SCALE: 1-1/2" = 1'-0" 17

DETAIL @ STEEL STUD OPTION SCALE: 1-1/2" = 1'-0" 18

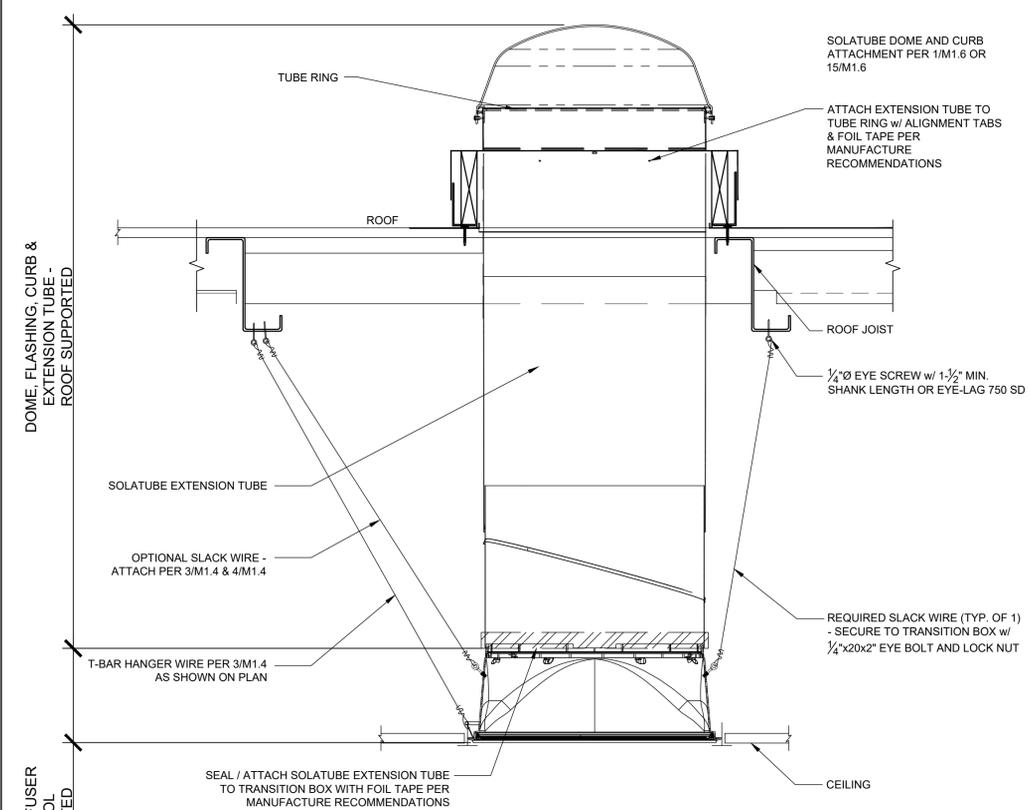
M1.6



PER 'METAL SUSPENSION SYSTEMS FOR LAY IN PANEL CEILING' KEYNOTES ON SHEET M1.7 (NOTE 19):

1. FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS WEIGHING LESS THAN 56 POUNDS MAY BE SUPPORTED DIRECTLY ON THE RUNNERS OF A HEAVY DUTY GRID SYSTEM, BUT THEY MUST HAVE A MINIMUM OF TWO #12 GA. SLACK SAFETY WIRES ATTACHED AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE. FIXTURES WEIGHING LESS THAN 10 POUNDS MAY HAVE AT LEAST ONE #12 GA. SLACK SAFETY WIRE.

CEILING SUPPORTED SOLATUBE COMPONENTS		ROOF SUPPORTED SOLATUBE COMPONENTS	
DESCRIPTION	WEIGHT	DESCRIPTION	WEIGHT
DIFFUSER:	1.65 LBS	TUBE:	8.10 LBS
DAMPER CONTROL	1.00 LBS	DOME:	6.40 LBS
TRANSITION BOX	5.50 LBS	TOTAL:	14.50 LBS
TOTAL:	8.15 LBS		



PER 'METAL SUSPENSION SYSTEMS FOR LAY IN PANEL CEILING' KEYNOTES ON SHEET M1.7 (NOTE 19):

1. FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS WEIGHING LESS THAN 56 POUNDS MAY BE SUPPORTED DIRECTLY ON THE RUNNERS OF A HEAVY DUTY GRID SYSTEM, BUT THEY MUST HAVE A MINIMUM OF TWO #12 GA. SLACK SAFETY WIRES ATTACHED AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE. FIXTURES WEIGHING LESS THAN 10 POUNDS MAY HAVE AT LEAST ONE #12 GA. SLACK SAFETY WIRE.

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TOTAL:	8.15 LBS		

SOLATUBE ATTACHMENT ELEVATION - SLOPED

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

SOLATUBE ATTACHMENT ELEVATION

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

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APP: 02-120119 INC:  
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DATE: 08/23/2022

**AMS**  
American Modular Systems  
787 Spreckels Ave., Manteca, CA 95336  
Phone (209) 825-1921 Fax (209) 825-7018  
www.americanmodular.com

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PRE-CHECKED SET NAME  
24' x 40' THRU 120' x 40'  
(LOW SEISMIC)  
**GEN7**  
by AMS

SITE SPECIFIC PROJECT NAME  
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2019 CBC PRE-CHECK (PC) DOCUMENT  
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MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT  
PATRICK CANNON  
No. C12631  
Ren. 2-31-23  
STATE OF CALIFORNIA

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SCALE: AS NOTED  
DATE: MMDDYY  
PROJECT NO: XXXX-20

SHEET TITLE:  
MECHANICAL  
ROOF DETAILS

SHEET NUMBER:  
M1.6A

- CEILING GRID SYSTEMS IN SEISMIC ZONES D, E, F, MUST BE RATED "HEAVY DUTY", AS DEFINED BY ASTM C635. PROVIDE GRID COMPONENTS AS SPECIFIED IN TABLE A BELOW, OR APPROVED EQUAL. GRID METAL FRAMING PIECES SHALL BE DESIGNED TO CARRY A MEAN ULTIMATE TEST LOAD OF NOT LESS THAN 180 LBS. IN COMPRESSION AND TENSION, PER ASTM E580.
- SUSPENSION WIRE SHALL BE CLASS 1 ZINC-COATED (GALVANIZED) CARBON STEEL CONFORMING TO ASTM A641. WIRE SHALL BE #12 GAGE WITH SOFT TEMPER AND A MINIMUM TENSILE STRENGTH OF 70 KSI.
- WHEN HANGER AND BRACING WIRES ARE ATTACHED TO CONCRETE ABOVE, TESTS PER D.S.A. IR 25-2.13 SECTION 6.8 MUST BE PERFORMED. POWER ACTUATED FASTENERS IN CONCRETE ARE NOT ALLOWED FOR BRACING WIRE.
- 12 GA. (MINIMUM) HANGER WIRES MAY BE USED FOR UP TO AND INCLUDING 4'-0" x 4'-0" GRID SPACING, ATTACH TO MAIN RUNNER. SPLICES WILL NOT BE PERMITTED IN ANY HANGER WIRES UNLESS SPECIFICALLY APPROVED BY D.S.A.
- PROVIDE 12 GA. HANGER WIRES WITHIN 8" OF THE ENDS OF ALL MAIN AND CROSS RUNNERS OR AT 1/4 OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, AT THE PERIMETER OF THE CEILING AREA.
- PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO MAINTAIN HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS OR DISCONTINUOUS AREAS. HANGER WIRES THAT ARE MORE THAN 1:6 OUT OF PLUMB ARE TO HAVE COUNTER-BRACED WIRES.
- CEILING GRID MEMBERS SHALL BE ATTACHED TO TWO (2) ADJACENT WALLS. CEILING GRID MEMBERS SHOULD 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.
- PERIMETER SUPPORT ANGLES SHALL BE AT LEAST 2 INCHES WIDE, OR USE PROPRIETARY ANGLES & SEISMIC CLIPS THAT HAVE A VALID EVALUATION REPORT.
- AT THE PERIMETER OF THE CEILING AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN THE RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADING. A METAL STRUT OR A 16 GA. WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNERS MAY BE USED, WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNERS IS 8" OR LESS, THIS INTERLOCK IS NOT REQUIRED.
- CEILING AREAS EXCEEDING 2,500 SQUARE FEET SHALL HAVE A SEISMIC SEPARATION JOINT.
- EXPANSION JOINTS SHALL BE PROVIDED AT INTERSECTIONS OF CORRIDORS, LOBBIES AND OTHER SIMILAR AREAS.
- PENETRATIONS THROUGH THE CEILING, SUCH AS FIRE SPRINKLERS, SHALL HAVE A 2 INCH OVERSIZED RING, SLEEVE OR ADAPTER TO ALLOW FREE MOVEMENT INDEPENDENT OF THE CEILING. ALTERNATE: A FLEXIBLE SPRINKLER FITTING THAT ALLOWS 1 INCH OF MOVEMENT CAN BE USED.
- LATERAL FORCE BRACING IS REQUIRED FOR ALL CEILINGS, EXCEPT CEILING AREAS OF 144 SQUARE FEET OR LESS WITH PERIMETER WALLS THAT ARE DESIGNED TO CARRY THE CEILING LATERAL FORCES. SPACING OF BRACING ASSEMBLIES MUST BE SHOWN ON THE PLANS.
- LATERAL FORCE BRACING CONSISTS OF A SET OF 1 COMPRESSION STRUT AND FOUR #12 GA. SPLAYED BRACING WIRES, ORIENTED 90 DEGREES FROM EACH OTHER AT THE FOLLOWING SPACING:
  - FOR SCHOOL BUILDINGS, PLACE SETS OF SPLAY WIRES AT A SPACING NOT MORE THAN 12 FEET BY 12 FEET ON CENTER.
  - PROVIDE SPLAY WIRES AT LOCATIONS NOT MORE THAN 1/2 THE ABOVE SPACING FROM EACH PERIMETER WALL OR AT THE EDGE OF VERTICAL CEILING OFFSETS. THE SLOPE OF THESE WIRES SHOULD NOT EXCEED 45 DEGREES FROM THE PLANE OF THE CEILING AND SHOULD BE TAUT WITHOUT CAUSING THE CEILING TO LIFT. SPLICES IN BRACING WIRES ARE NOT PERMITTED WITHOUT SPECIAL D.S.A. APPROVAL.
- COMPRESSION STRUTS SHALL BE ABLE TO RESIST THE VERTICAL PULL INDUCED BY BRACING WIRES, AND SHALL NOT BE MORE THAN 1:6 OUT OF PLUMB.
- FASTEN HANGER WIRES WITH NOT LESS THAN 3 TIGHT TURNS WITHIN A DISTANCE OF 3 INCHES. FASTEN SPLAY WIRES WITH 4 TIGHT TURNS WITHIN A DISTANCE OF 1-1/2 INCHES. HANGER OR BRACING WIRE ANCHORS TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE WIRE ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE FORCES ACTING ON THE WIRE.
- SEPARATE ALL CEILING HANGING AND BRACING WIRES AT LEAST 6 INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT ETC.
- ATTACH ALL LIGHT FIXTURES AND AIR TERMINALS TO THE CEILING GRID RUNNERS WITH SCREWS OR APPROVED FASTENERS AS REQUIRED TO RESIST A HORIZONTAL FORCE EQUAL TO THE FIXTURES' WEIGHT. MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH LIGHT FIXTURE.
- FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS WEIGHING LESS THAN 56 POUNDS MAY BE SUPPORTED DIRECTLY ON THE RUNNERS OF A HEAVY DUTY GRID SYSTEM, BUT THEY MUST HAVE A MINIMUM OF TWO #12 GA. SLACK SAFETY WIRES ATTACHED AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE. FIXTURES WEIGHING LESS THAN 10 POUNDS MAY HAVE AT LEAST ONE #12 GA. SLACK SAFETY WIRE.
- LIGHT FIXTURES AND OTHER CEILING DEVICES WEIGHING MORE THAN 56 POUNDS SHALL BE INDEPENDENTLY SUPPORTED BY NO LESS THAN FOUR (4) TAUT #12 GAGE WIRES, ATTACHED TO THE STRUCTURE ABOVE. WIRES MUST BE ABLE TO SUPPORT FOUR (4) TIMES THE WEIGHT OF THE UNIT.
- ALL LIGHT-WEIGHT MISCELLANEOUS DEVICES, SUCH AS STROBE LIGHTS, OCCUPANCY SENSORS, SPEAKERS, EXIT SIGNS, ETC., SHALL BE ATTACHED TO THE CEILING GRID PER SECTION 2.6.3 OF D.S.A. IR 25-2.13. IN ADDITION, DEVICES WEIGHING MORE THAN 10 LBS SHALL HAVE A #12 GAUGE SLACK SAFETY WIRE ANCHORED TO THE STRUCTURE ABOVE PER SECTION 7.2.2 OF D.S.A. IR 25-2.13. DEVICES WEIGHING MORE THAN 20 LBS. SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE PER SECTION 7.3.4 OF D.S.A. IR 25-2.13.
- PANELS THAT WEIGH MORE THAN 0.5 LBS/SQ.FT. (PSF), OTHER THAN MINERAL FIBER ACOUSTIC TILES, SHALL BE POSITIVELY ATTACHED TO CEILING SUSPENSION RUNNERS.
- ACOUSTICAL PANELS SHALL BE 5/8" MINIMUM THICK, MINERAL FIBERBOARD OR VINYL-FACED FIBERGLASS, LAY-IN PANELS, SQUARE EDGE, ASTM FLAME SPREAD CLASS T, 24"x48" MODULAR SIZE, LIGHT REFLECTION 75% MINIMUM, NOISE REDUCTION COEFFICIENT OF 0.65 MINIMUM, MAXIMUM SMOKE DENSITY NOT TO EXCEED 450. FLAME SPREAD RATING MAXIMUM OF 200. PANELS ARE NOT ALLOWED TO SUPPORT ANY FIXTURE, TERMINAL OR DEVICE.
- THERMOSTAT SHALL BE PROGRAMMED TO PREVENT SUPPLEMENTARY HEATER OPERATION WHEN THE HEATING LOAD CAN BE MET BY THE HEAT PUMP ALONE. THE CUT-ON TEMPERATURE FOR COMPRESSION HEATING MUST BE HIGHER THAN THE CUT-ON TEMPERATURE FOR SUPPLEMENTARY HEATING, AND THE CUT-OFF TEMPERATURE FOR COMPRESSION HEATING MUST BE HIGHER THAN THE CUT-OFF TEMPERATURE FOR SUPPLEMENTARY HEATING PER CEC 2019 SECTION 110.2(b).

### HVAC CFM CHART

	MODEL #	DESCRIPTION	MAX. CFM	UNIT WEIGHT (LBS)	EER	COP	CLIMATE ZONE(S)
	W36HB	3 TON HEAT PUMP	1143	500	11	3.3	1-16
	W42HC	3 1/2 TON HEAT PUMP	1200	500	11	3.3	1-16
BARD WALL HUNG	W48HC	4 TON HEAT PUMP	1650	500	11	3.3	1-16
	W60HC	4 1/2 TON HEAT PUMP	1850	515	11	3.3	1-16

### HVAC CFM CHART

	MODEL #	DESCRIPTION	MAX. CFM	UNIT WEIGHT (LBS)	EER	SEER	CLIMATE ZONE(S)
	50VT-C36-3-TP	3 TON HEAT PUMP	1200	371	12.0	14.5	1-16
	50VT-C42-3-TP	3 1/2 TON HEAT PUMP	1300	412	12.0	14.5	1-16
CARRIER ROOF MOUNT	50VT-C48-3-TP	4 TON HEAT PUMP	1650	392	12.0	14.5	1-16
	50VT-C60-3-TP	4 1/2 TON HEAT PUMP	1750	410	12.0	14.2	1-16

### HVAC CFM CHART

	MODEL #	DESCRIPTION	AIR HANDLER MODEL # (THERMATIC MOUNTED)	MAX. CFM	UNIT WEIGHT (LBS)	EER	SEER	CLIMATE ZONE(S)
	25HCE436A003	3 TON HEAT PUMP	FX4DN037	1200	157	11.5	14.0	1-16
	25HCE442A003	3 1/2 TON HEAT PUMP	FX4DN043	1300	157	11.5	14.0	1-16
CARRIER SPLIT DX SYSTEM	25HCE448A003	4 TON HEAT PUMP	FX4DN049	1650	185	11.5	14.0	1-16
	25HCE460A003	4 1/2 TON HEAT PUMP	FX4DN061	1800	201	11.5	14.0	1-16

### HVAC SCHEDULE

BUILDING SIZE	# OF HVAC CLIMATE ZONES 1-14				# OF HVAC ALL CLIMATE ZONES (BASED ON CZ15)				# OF HVAC CLIMATE ZONE 16			
	3 TON HVAC	3 1/2 TON HVAC	4 TON HVAC	4 1/2 TON HVAC	3 TON HVAC	3 1/2 TON HVAC	4 TON HVAC	4 1/2 TON HVAC	3 TON HVAC	3 1/2 TON HVAC	4 TON HVAC	4 1/2 TON HVAC
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<input type="checkbox"/> 36'x40'			1									1
<input type="checkbox"/> 48'x40'		2					2				2	
<input type="checkbox"/> 60'x40'			2					2				2
<input type="checkbox"/> 72'x40'		3					3				3	
<input type="checkbox"/> 84'x40'			3					3				3
<input checked="" type="checkbox"/> 96'x40'		4					4				4	
<input type="checkbox"/> 108'x40'			4					4				4
<input type="checkbox"/> 120'x40'		5					5				5	

### MINIMUM INSULATION SCHEDULE

ZONE	WALL	ROOF		FLOORS (NON-CONCRETE)	CONCRETE FLOORS
		BATTS	RIGID		
1-2	*R-13	**R-19	R-10	R-13	N/A
3-15	*R-13	**R-19	R-5	R-13	N/A
16	*R-13	**R-19	R-15	R-13	N/A

\* IN ADDITION TO R-13 BATT INSULATION, R-4 RIGID INSULATION TO BE USED OVER METAL FRAMED WALLS  
 \*\* SECURED w/ 22 GA WIRE @ 16" O.C.

#### TABLE A - HEAVY DUTY GRID COMPONENTS

MANUFACTURER	MAIN TEE	H.D. 4' CROSS TEE	H.D. 2' CROSS TEE	RUNNER SPLICE DETAIL	ICBO ER REPORT
DONN/USG	DX-26	DX-424	DX-216	N/A	ICC-ESR-1222
ARMSTRONG	7301	XL7341	XL8320	N/A	ICC-ESR-1308
CHICAGO/ROCKFON	200.01	1274.01	1202.01	N/A	ICC-ESR-2631

NOTE: ALL GRID COMPONENTS SHALL BE BY THE SAME MANUFACTURER

#### HEATING VENTILATING AND AIR CONDITIONING (HVAC)

- HEAT PUMP: SINGLE PACKAGE WALL-MOUNTED AIR-TO-AIR ELECTRIC HEAT PUMP UNIT SHALL BE RATED IN ACCORDANCE WITH A.R.I. STANDARD 240-77. MAXIMUM AC SIZE FOR THIS BUILDING WILL BE A 5-TON UNIT. ALL UNITS SHALL BE 230/208 VOLT, 1 PHASE SYSTEM, UL TESTED & APPROVED OR COMPARABLE, AND MEET CURRENT ENERGY STANDARDS.
  - THE SYSTEM SHALL MAINTAIN AN AUTOMATICALLY CONTROLLED INDOOR CLASSROOM TEMPERATURE OF 78 DEGREES F. WHEN THE OUTDOOR DRY BULB TEMPERATURE VARIES BETWEEN 100 DEGREES F. IN THE SUMMER.
  - THE SYSTEM MUST MAINTAIN THE ABOVE TEMPERATURE WHEN THE DAMPER IS ADJUSTED TO USE APPROXIMATELY ONE-THIRD FRESH AIR.
- DUCTWORK
  - CONSTRUCT ALL DUCTWORK OF GALVANIZED SHEET METAL IN ACCORDANCE WITH C.M.C., ASHRAE GUIDE EQUIPMENT VOLUME, AND SMACNA LOW VELOCITY DUCT CONSTRUCTION MANUAL, LATEST EDITIONS. ALL DUCTWORK SHALL BE INSULATED WITH 1" THICK FIBERGLASS DUCT WRAP WITH VAPOR BARRIER. PROVIDE 1" DUCT ATTENUATION AT ALL DUCTWORK WITHIN 2'-0" OF HVAC UNIT.
  - NON-METALLIC DUCTWORK OPTION: IN ACCESSIBLE CONCEALED PORTIONS OF DUCT SYSTEM, RIGID 1" FIBERGLASS OR INSULATED FLEX-DUCT WITH VAPOR BARRIER MAY BE SUBSTITUTED FOR SHEET METAL DUCTWORK. ALL DUCTWORK WITHIN 2'-0" OF THE HVAC UNIT AND ALL INTERFACE CONNECTIONS SHALL BE METAL. DUCTWORK AND REINFORCEMENT SHALL BE DESIGNED FOR 2" STATIC PRESSURE. REFERENCE BRANDS: OWENS-CORNING FIBERGLASS DUCTBOARD, 1" THICK, AND MICRO-AIRE TYPE 475. NON-METALLIC DUCTWORK SHALL CONFORM TO NFPA 90-A AND SMACNA CLASS 1 RATING.
  - DUCT INSTALLATION AND PLENUMS SHALL MEET THE REQUIREMENTS OF ENERGY CODE SECTION 120.4 AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. HORIZONTAL FLEX DUCT SHALL BE SUPPORTED AT A MAXIMUM 4' INTERVALS, WITH HANGING STRAPS A MINIMUM 1-1/2" WIDE. DUCTS MUST BE PULLED TIGHTS WITH A MAXIMUM SAG OF 1/2" PER FOOT OF HORIZONTAL RUN. DUCTS SHALL NOT BE KINKED OR CRUSHED. BEND/RADIUS EQUAL TO THE DUCT DIAMETER OR GREATER.
  - SIZES OF SUPPLY AND RETURN DUCTS SHALL BE SPECIFIED ON PLANS. HVAC CURB SUPPLY AND RETURN DUCTS SHALL BE THE SAME SIZE AND ALIGN WITH THE HVAC UNIT.
  - FLEXIBLE AIR DUCTS AND CONNECTORS SHALL BE NOT MORE THAN 5 FEET IN LENGTH AND SHALL NOT BE USED IN LIEU OF RIGID ELBOWS OR FITTINGS. FLEXIBLE AIR DUCTS SHALL BE PERMITTED TO BE USED AS AN ELBOW AT A TERMINAL DEVICE PER ENERGY CODE 120.4 AND CMC 603.4.1
- AIR DUCT INSULATION AND LININGS SHALL COMPLY WITH FLAME SPREAD LESS THAN OR EQUAL TO 25, SMOKE GENERATION LESS THAN OR EQUAL TO 50.
- SUPPLY AIR DIFFUSERS SHALL BE 675 CFM MAXIMUM, 12" ROUND, 1" FIBERGLASS OR FLEXDUCT DUCTWORK SPECIFICALLY DESIGNED TO PROVIDE AIR THERMAL COOLING SYSTEMS, 24"x8"x1" MICRO-AIRE TYPE #475 OWENS-CORNING, KNAUF, CERTAINTED, OR EQUAL AND 90-B: UL #131 TEST, CLASS 1 RATING WITH "SMACNA".
- REGISTERS AND DIFFUSERS: PROVIDE THREE (MINIMUM) 4-WAY THROW AIR DIFFUSERS AS MANUFACTURED BY CARNES, TITUS, HART AND COOLEY, METALAIRE, SHOEMAKER, BARBER-COLEMAN OR KRUEGER COMMERCIAL GRADE GRILLS AND REGISTERS.
- AIR CONDITIONING CONTROLS: PROVIDE ELECTRONIC PROGRAMMABLE THERMOSTAT. THERMOSTAT SHALL BE PROGRAMMED WITH EXPECTED OCCUPIED TIMERS. AIR HANDLER FAN WILL BE PROGRAMMED TO RUN DURING ALL OCCUPIED TIMES. PRE-OCCUPANCY PURGE SHALL BE PROGRAMMED ONE HOUR PRIOR TO THE MODULAR BUILDING BEING NORMALLY OCCUPIED. THERMOSTAT SHALL HAVE THE FOLLOWING FUNCTIONS:
  - 5 AND 2 WEEKDAY/WEEKEND PROGRAMMING DAYS WITH 4 SEPARATE TIME/TEMPERATURE SETTINGS FOR A 24-HOUR PERIOD.
  - KEY BOARD LOCKOUT SWITCH.
  - PROGRAMMABLE DISPLAY.
  - 2-HOUR OVERRIDE MINIMUM.
  - STATUS INDICATED LED'S.
  - BATTERY BACK-UP.
  - PROVIDE LOCKING CLEAR THERMOSTAT COVER WITH THERMOSTAT COVER WITH ACCESS HOLE FOR PROGRAM OVERRIDE, WHITE RODGERS IF92-371. MOUNT TOP OF BOX @ 48" A.F.F. MAX. (WHERE SEALED, SETTINGS & ADJUSTMENTS CAN BE DONE BY SERVICE PERSONNEL ONLY.)
- THERMAL INSULATION
  - ROOF INSULATION: R-19 WITH 22 GA. WIRE @ 16" O.C. & R-1 TOP OF PURLINS.
  - WALLS INSULATION: R-13 KRAFT FACED. (R-5 INSULATION OVER METAL FRAMED WALLS)
  - NON-CONCRETE FLOORS INSULATION: R-13
  - CONCRETE FLOORS INSULATION: N/A
  - FLAME SPREAD AND SMOKE DEVELOPMENT SHALL CONFORM TO CALIFORNIA BUILDING CODE SEC. 720.
- FACTORY-MADE AIR DUCTS
  - FACTORY-MADE AIR DUCTS SHALL BE APPROVED FOR THE USE INTENDED OR SHALL CONFORM TO THE REQUIREMENTS OF C.M.C. SECTION 601.0.
  - EACH PORTION OF A FACTORY-MADE AIR DUCT SYSTEM SHALL BE IDENTIFIED BY THE MANUFACTURER WITH A LABEL OR OTHER SUITABLE IDENTIFICATION INDICATING COMPLIANCE WITH C.M.C. SECTION 601.0 AND ITS CLASS DESIGNATION. THESE DUCTS SHALL BE LISTED AND SHALL BE INSTALLED IN ACCORDANCE WITH THE TERMS OF THEIR LISTING AND THE REQUIREMENTS OF C.M.C. SECTION 601.0.
  - DUCT SUPPORT FLEX DUCT TO BE SUPPORTED WITH 1-1/2" WIDE x26 GA. GALV. STRAP @ MAX 4'-0" O.C. ATTACH TO RAFTER WITH TWO #8 S.M.S. @ EACH END.
  - SUPPLY AIR PLENUM TO BE SUPPORTED WITH 1-1/2" WIDE x26 GA. GALV. STRAPS MINIMUM 2 PER PLENUM.
  - SUPPLY AIR BOX AND DIFFUSERS TO BE SUPPORTED WITH (2) 12 GA. HANGER WIRES TO BOX @ OPPOSITE CORNERS.
  - SUPPLY AIR BOX AND DIFFUSERS TO BE BRACED WITH (2) 12 GA. SLACK WIRES TO BOX @ OPPOSITE CORNERS. ATTACH SUPPLY AIR DIFFUSERS TO CEILING GRID TO RESIST A LATERAL LOAD EQUAL TO THE WEIGHT OF THE DIFFUSER AND SUPPLY AIR BOX WITH TWO #8 S.M.S.
- FIREBLOCKING SHALL BE PROVIDED IN THE FOLLOWING LOCATIONS:
  - IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES;
  - AT THE CEILING AND FLOOR LEVELS;
  - AND AT 10-FOOT (3048mm) INTERVALS BOTH VERTICAL AND HORIZONTAL. REFERENCE 2019 CBC SECTION 718.
- THE INTERIOR ENVIRONMENT SHALL BE ASSEMBLED WITH PRODUCTS THAT CONTRIBUTE TO A HEALTHY INDOOR AIR QUALITY (IAQ). THE FOLLOWING SHALL COMPLY TITLE 24, PART 11 ("CAL-GREEN"), SECTION 5.504.4. (SEE SHEET N1.0, SECTION 9C "INTERIOR AIR QUALITY CONTROL")
- HVAC FILTER
  - FILTERS SHALL HAVE A "MINIMUM EFFICIENCY REPORTING VALUE" OF 13 WITH 2" DEPTH MIN. (MERV 13) AND SHALL BE INSTALLED PRIOR TO OCCUPANCY AND RECOMMENDATIONS FOR MAINTENANCE WITH FILTERS OF THE SAME VALUE SHALL BE INCLUDED IN THE OPERATION AND MAINTENANCE MANUAL, PER 2019 CEC SECTION 5.504.5.3.
  - INSTALLED FILTERS SHALL BE CLEARLY LABELED BY THE MANUFACTURER INCLUDING THE MERV RATING, PER 2019 CBC SECTION 5.504.5.3.1
- ROOF MOUNTED HVAC
  - A GASKET SHALL BE PLACED BETWEEN THE CURB AND THE HVAC UNIT. MASTIC SEALANT SHALL BE USED TO SEAL ALL SEAMS BETWEEN THE HVAC UNIT AND DUCTS.
- HVAC CONTROLS
  - THERMOSTAT (BY OTHERS) WILL BE PROGRAMMED WHEN THE MODULAR BUILDING IS PLACED ON A SITE TO ENSURE THE MINIMUM AIR RATE WILL BE SUPPLIED TO THE SPACE AT ALL USUALLY OCCUPIED TIMES AND PROGRAMMED TO PROVIDE A PRE-OCCUPANCY PURGE ONE HOUR PRIOR TO THE MODULAR BUILDING BEING NORMALLY OCCUPIED PER ENERGY CODE 120.1(c)(1).
- UPON SITE PLACEMENT OR SITE CONSTRUCTION, THE OPERATION AND MAINTENANCE DOCUMENTATION FOR ALL MECHANICAL AND LIGHTING SYSTEMS AND CONTROLS SHALL BE PROVIDED BY THE GENERAL CONTRACTOR FOR THE PERMANENT MODULAR RELOCATABLE BUILDING AND DELIVERED TO THE OWNER.

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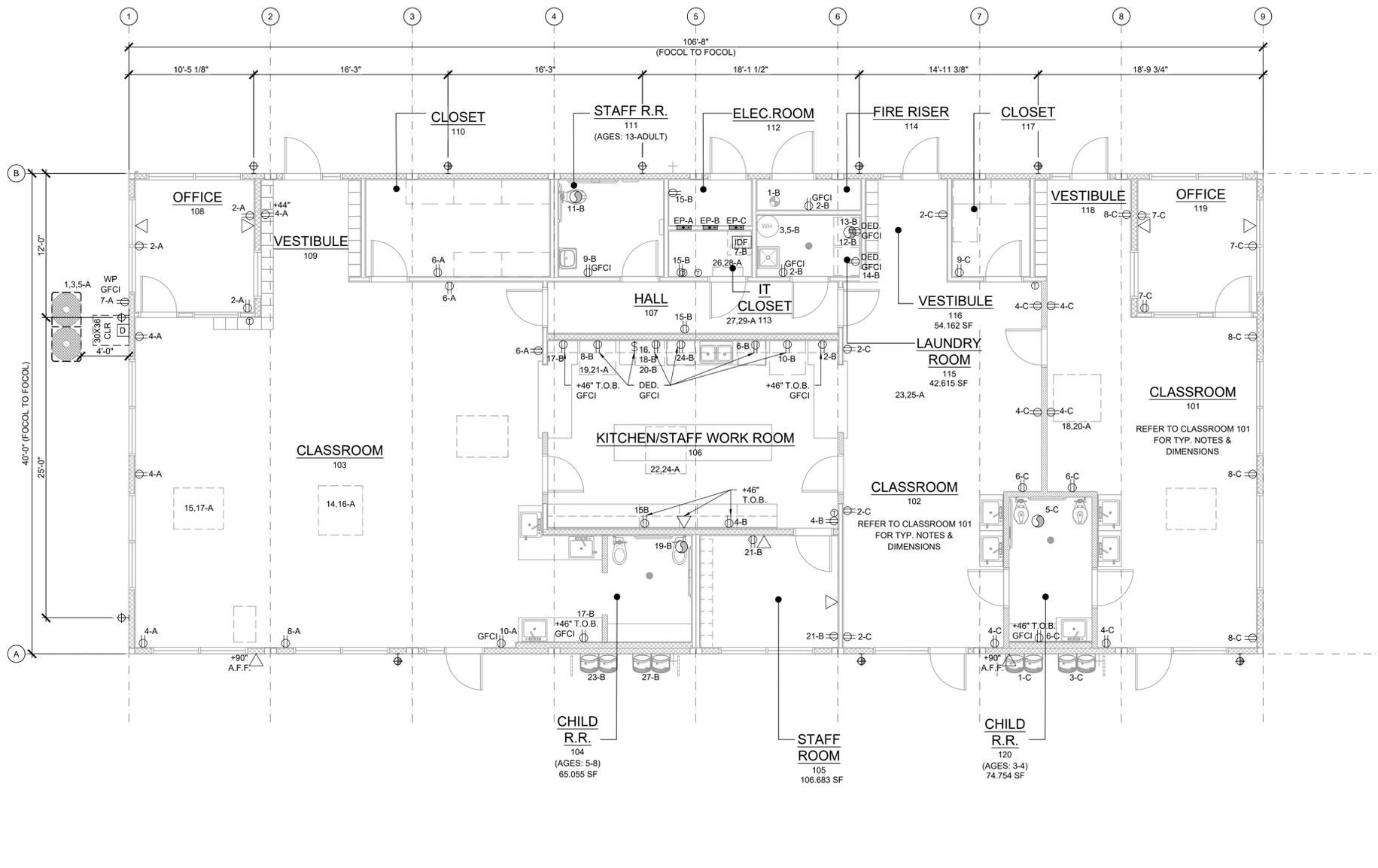
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 DATE: MM/DD/YYYY  
 PROJECT NO: XXXX-20  
 SHEET TITLE:

CEILING & MECHANICAL NOTES, SCHEDULES

SHEET NUMBER:

# M1.7



NOTES:  
 1. T.O.B. = TOP OF BOX  
 2. SUNSHADES/RAIN LADDERS/OVERHANGS NOT SHOWN FOR CLARITY

- ⊞ ELECTRICAL PANEL - MOUNT FLUSH WITH WALL FINISH, U.O.N.
- ⊞ UNCONTROLLED-DUPLEX WALL CONVENIENCE OUTLET - MOUNT @ +18" A.F.F. TO CENTERLINE, U.O.N.
- ⊞ CONTROLLED-DUPLEX WALL CONVENIENCE OUTLET - MOUNT @ +18" A.F.F. TO CENTERLINE, U.O.N. - TO BE CONTROLLED BY OCCUPANCY SENSOR.
- ⊞ COMBO-DUPLEX WALL CONVENIENCE OUTLET - MOUNT @ +18" A.F.F. TO CENTERLINE, U.O.N.
- ⊞ FOURPLEX WALL OUTLET - MOUNT @ +18" A.F.F. TO CENTERLINE - U.O.N.
- ⊞ WEATHER-PROOF GROUND FAULT CIRCUIT INTERRUPT OUTLET - MOUNT @ 18" A.F.F. TO CENTERLINE - U.O.N.
- ⊞ GROUND FAULT CIRCUIT INTERRUPT OUTLET - MOUNT @ +48" A.F.F. MAX TO TOP OF BOX - HUBBELL PREMIUM, BRYANT HEAVY DUTY, OR LEVITON SPECIFICATIONS GRADE.
- ⊞ CONTROLLED-SINGLE POLE LIGHT SWITCHES - MOUNT @ +48" A.F.F. MAX TO TOP OF BOX - HUBBELL PREMIUM, BRYANT HEAVY DUTY, OR LEVITON SPECIFICATIONS GRADE.
- ⊞ SINGLE POLE SOLA-TUBE SWITCH - MOUNT @ +48" A.F.F. MAX TO TOP OF BOX.
- ⊞ SPRING WOUND COUNTDOWN TIMER, 125-277 VAC, 50/60 HZ, DSPT, 60 MINUTE MAX, ITEM FD460MW OR EQUAL - MOUNT @ +48" A.F.F. MAX TO TOP OF BOX.
- ⊞ SWITCH SUBSCRIPTS - a-DEVICE CONTROLLED.
- ⊞ THERMOSTAT - TOP OF BOX MOUNTED @ +48" A.F.F.
- ⊞ JUNCTION BOX - SIZE / LOCATION A.F.F. / TYPE AS NOTED
- ⊞ ELECTRICAL CROSSOVER - J-BOX - ABOVE CEILING - #1-4"x1", #2-2"x2"
- ⊞ CLOCK/SPEAKER COMBO - MOUNT @ +90" A.F.F. TO CENTERLINE - U.O.N. - DEVICE BY OTHERS
- ⊞ SPEAKER - OUTLET ONLY - 4" SQ. BOX WITH SINGLE DEVICE RING AND COVER - MOUNT @ +48" A.F.F. TO CENTERLINE - DEVICE BY OTHERS
- ⊞ DATA/COMMUNICATION - OUTLET ONLY - 4" SQ. BOX WITH SINGLE DEVICE RING AND COVER - MOUNT @ +18" A.F.F. TO CENTERLINE, U.O.N., AND PROVIDE A 3/4" CONDUIT STUBBED ABOVE CEILING - DEVICE BY OTHERS
- ⊞ CATV OUTLET - OUTLET ONLY - PROVIDE (1) 4" SQ. BOX WITH SINGLE DEVICE RING AND COVER - (1) 3/4" DIA CONDUIT - STUBBED ABOVE CEILING - DEVICES BY OTHERS
- ⊞ INTERCOM/TELEPHONE - OUTLET ONLY - 4" SQ. BOX WITH SINGLE DEVICE RING AND COVER - MOUNT TOP OF BOX @ +48" A.F.F. U.O.N. AND PROVIDE A 3/4" CONDUIT STUBBED ABOVE CEILING - DEVICE BY OTHERS
- ⊞ SECURITY/INTRUSION KEY PAD - OUTLET ONLY - 4" SQ. BOX w/ SINGLE DEVICE RING AND COVER, MOUNT TOP OF BOX @ +48" A.F.F., AND ONE 3/4" CONDUIT STUBBED ABOVE CEILING - DEVICE BY OTHERS
- ⊞ DOOR CONTACT - PROVIDE (1) EMPTY 1/2" DIA EMT THROUGH DOOR HEADER - STUBBED ABOVE CEILING - DEVICE BY OTHERS
- ⊞ MOTION SENSOR OUTLET - PROVIDE (1) 4" SQ. BOX WITH SINGLE DEVICE RING AND COVER AND ONE 3/4" CONDUIT STUBBED ABOVE CEILING
- ⊞ ULTRASONIC OCCUPANCY SENSOR - MOUNTED TO FINISH CEILING (PROVIDE WITH COMBINATION PHOTOCELL SENSOR WHEN DAYLIT CONTROLS ARE REQUIRED)
- IDF DED. FUTURE IDF (DEVICE/BOX BY AMS)
- ⊞ UNCONTROLLED-DUPLEX WALL CONVENIENCE OUTLET - IDF CABINET MOUNT @ 12" BELOW CEILING LINE TO TOP OF CABINET, U.O.N.
- ⊞ CONDENSER 60 AMP DISCONNECT w/30x36 CLEAR SPACE (POWER AND CONNECTION TO UNIT BY OTHERS)
- ⊞ EXTERIOR LIGHT FIXTURE @ EACH DOOR, LED OR EQUAL (MAX 40W) - WHERE THERE ARE TWO OR MORE EXITS, A MINIMUM 90 MIN. BATTERY BACK-UP IS REQUIRED
- ⊞ EXTERIOR LIGHT FIXTURE @ EACH DOOR, LED OR EQUAL (MAX 40W)

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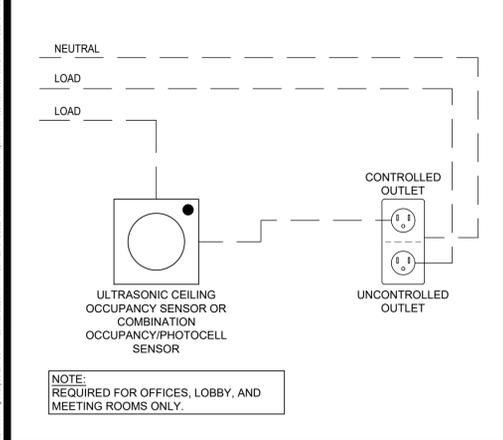
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 SOLANO COMMUNITY COLLEGE DISTRICT  
 CHILD DEVELOPMENT CENTER  
 (1) 96'x40' BUILDING

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TYPICAL ELECTRICAL PLAN



TYP. CONTROLLED/UNCONTROLLED RECEPTACLE WIRING DIAGRAM

ENERGY CONTROLS

- AUTOMATIC DAYLIGHTING CONTROLS: NOT REQUIRED IN ROOMS WHERE COMBINED INSTALLED LIGHTING POWER IN COMBINED SKYLIT & PRIMARY DAYLIT ZONES ARE <120 WATTS. INSTALLED WATTAGE IN PRIMARY SIDE-LIT DAY LIT ZONE IS 90 WATTS (2x 45w, AS SHOWN IN THE SHADED AREAS). THEREFORE, AUTOMATIC DAYLIGHTING CONTROLS ARE ONLY REQUIRED WHEN "SOLATUBES" ARE INSTALLED. SEE A1.1. WHEN DAYLIT CONTROLS ARE REQUIRED, PROVIDE COMBINATION OCCUPANCY/PHOTOCELL SENSOR.
- ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) CONNECTION: PER TITLE 24 CODE, "AN EMCS MAY BE INSTALLED TO COMPLY WITH THE REQUIREMENTS OF ONE OR MORE LIGHTING CONTROLS IF IT MEETS THE MINIMUM REQUIREMENTS" PC MAY CONTAIN OCCUPANCY SENSORS AND PHOTOCELL CONTROL LIGHTING, IN THAT CASE, AN EMCS IS NOT REQUIRED FOR THIS PC.
- SOLAR-READY ZONE REQUIREMENTS: REQUIREMENTS & TABLE CAN BE FOUND ON SHEET A2.0
- SUGGESTED CONTROLS DIAGRAM FOR TYPICAL DAYLIT ZONE:  
 PROGRAMMABLE SWITCH  
 ROOM CONTROL (0-10V DIMMING)  
 OCCUPANCY SENSOR  
 PHOTOCELL SENSOR

ENERGY NOTES

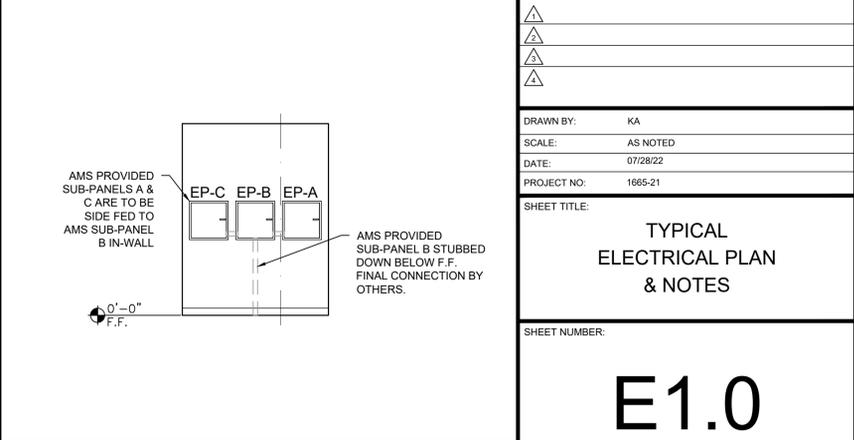
- THE PROJECT ARCHITECT SHALL BE RESPONSIBLE FOR THE PLACEMENT OF HEAT & SMOKE DETECTORS, EVACS AND PULL STATIONS, AND COMPLETE FIRE ALARM SYSTEM WHEN THE SITE SPECIFIC PROJECT IS REQUIRED TO MEET THE PROVISIONS OF SB 575 & CBC 907.2.3.
- ANY MONITORING EQUIPMENT OR ASSOCIATED SENSORS ARE SITE SPECIFIC AND ARE NOT INCLUDED IN THIS BASE PC.
- PULL STATIONS ARE REQUIRED AT EVERY EXIT. AT ANY SPACE REQUIRING 2 OR MORE EXITS, PROVIDE EXIT SIGNS (CBC 1013) AND EMERGENCY EXIT ILLUMINATION (CBC 1008).
- SEE PLANS FOR LOCATIONS OF ALL DEVICES.
- STUB-OUT LOCATIONS FOR ELECTRICAL PANEL, FIRE ALARM, AND DATA BOXES ARE SHOWN DIAGRAMMATICALLY ONLY. EXACT LOCATIONS MAY VARY +/- SEVERAL FEET. PLEASE CONTACT AMERICAN MODULAR SYSTEMS FOR EXACT LOCATIONS. POINT OF CONNECTION WILL BE AT FACE OF BUILDING.
- STUB-UP ALL FIRE ALARM JUNCTION BOXES TO ACCESSIBLE ATTIC SPACE WITH 1/2" MIN. GALV. THIN WALL TUBING (EMT). DO NOT CONNECT FIRE ALARM CONDUIT WITH ANY OTHER ELECTRICAL CONDUIT.
- THE LIGHTS FOR EACH ROOM OVER 250 SQ FT SHALL BE CONTROLLED BY ULTRASONIC OCCUPANCY SENSOR: WATT STOPPER W-500A, W-1000A, OR W-2000A (OR EQUAL) BASED ON THE ROOM SIZE, IN CONJUNCTION WITH BI-LEVEL SWITCHING.
- FIXTURE MOUNTING SHALL COMPLY WITH CALIFORNIA SEISMIC REGULATIONS.

GENERAL NOTES

- LIGHTING FIXTURES MAY BE INSTALLED ROTATED 90° FROM SHOWN TO MATCH T-BAR GRID LAYOUT.
- DEMAND RESPONSE CONTROLS
- DEMAND RESPONSE CONTROLS ARE REQUIRED IN BUILDINGS LARGER THAN 10,000 S.F.
  - DEMAND RESPONSE CONTROLS, WHERE REQUIRED, ARE TO BE PROVIDED BY OTHERS.
  - DEMAND RESPONSE CONTROLS AND EQUIPMENT SHALL BE CAPABLE OF RECEIVING AND AUTOMATICALLY RESPONDING TO AT LEAST ONE STANDARD-BASED MESSAGING PROTOCOL WHICH ENABLES DEMAND RESPONSE AFTER RECEIVING A DEMAND SIGNAL.
  - SITE-SPECIFIC PROJECTS WHICH REQUIRE DEMAND RESPONSE CONTROLS MUST INCLUDE THE SUBMITTAL OF FORM NRCC-ELC-01-E TO DSA (BY OTHERS).

GENERAL NOTES

STANDARD ELECTRICAL SYMBOLS



ELECTRICAL PANEL IN-WALL CONDUIT

REVISIONS


DRAWN BY: KA  
 SCALE: AS NOTED  
 DATE: 07/28/22  
 PROJECT NO: 1665-21  
 SHEET TITLE: TYPICAL ELECTRICAL PLAN & NOTES  
 SHEET NUMBER: E1.0



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**GEN7**  
 by AMS

SITE SPECIFIC PROJECT NAME  
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 CHILD DEVELOPMENT CENTER  
 (1) 96'x40' BUILDING**

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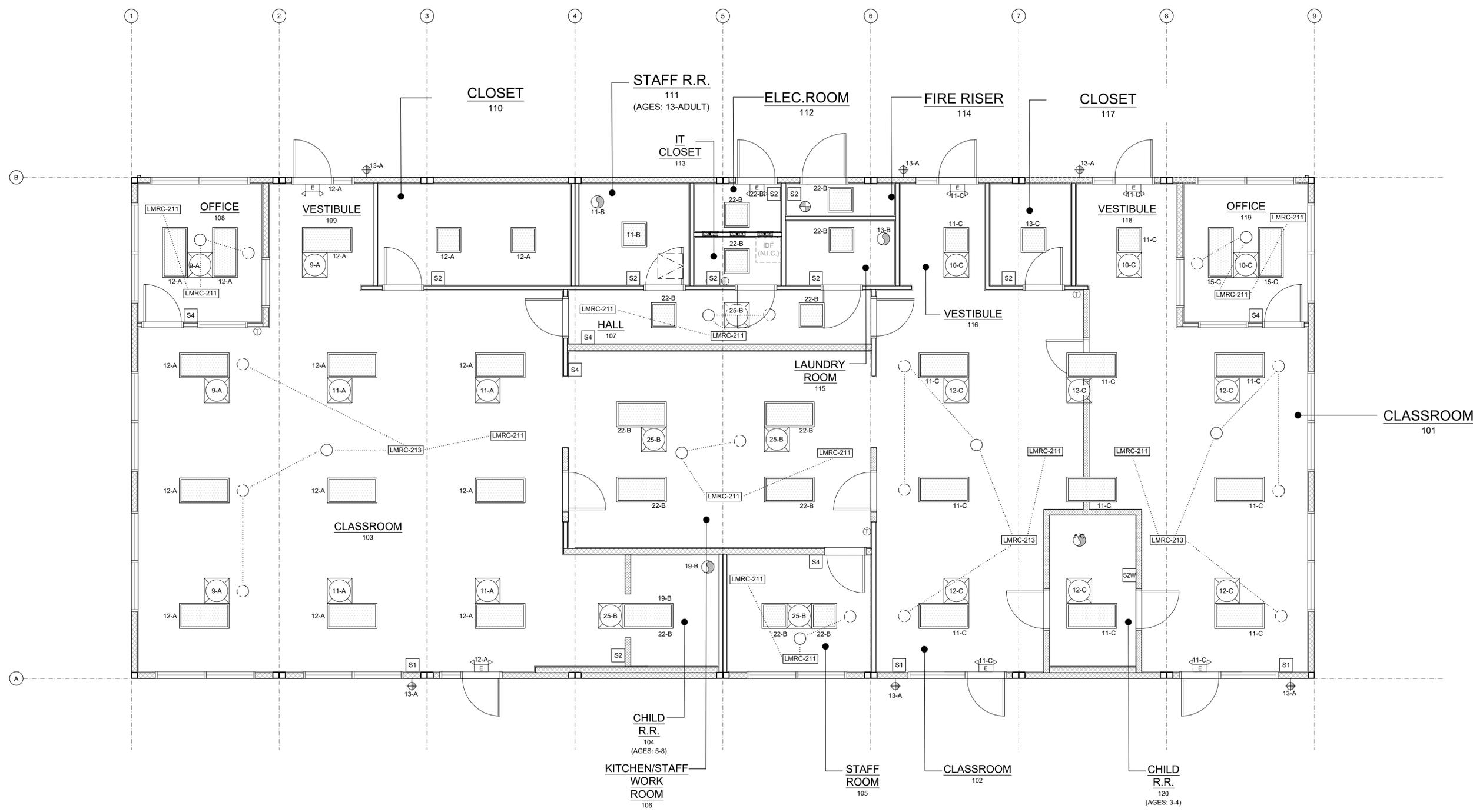


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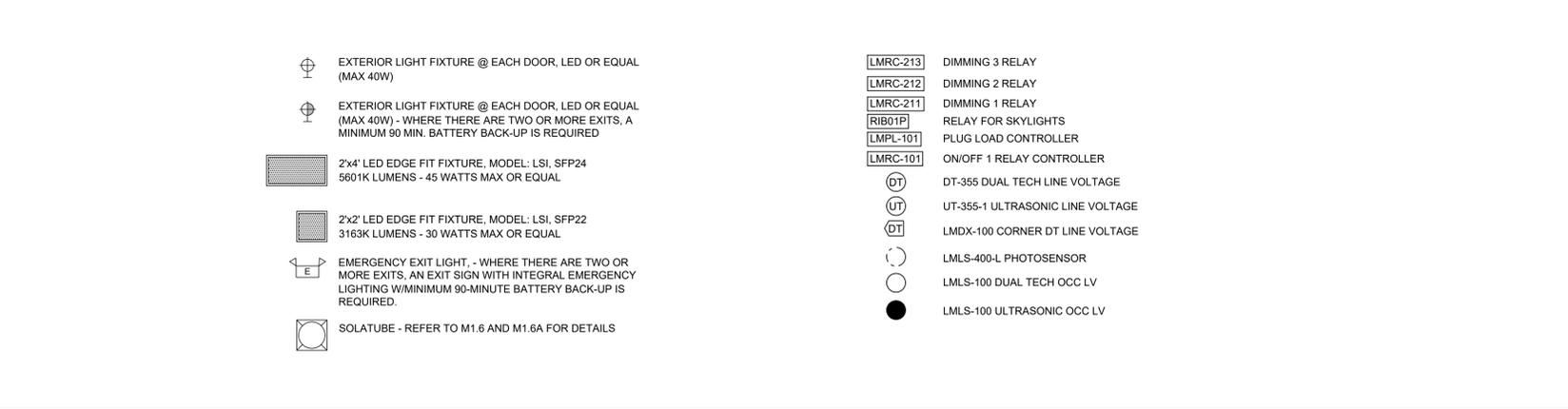
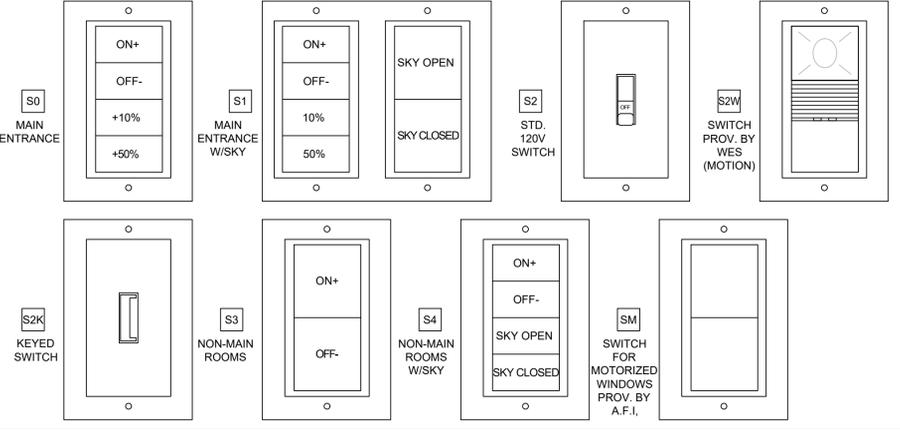

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 SHEET TITLE:  
**LIGHTING LAYOUT PLAN**  
 SHEET NUMBER:

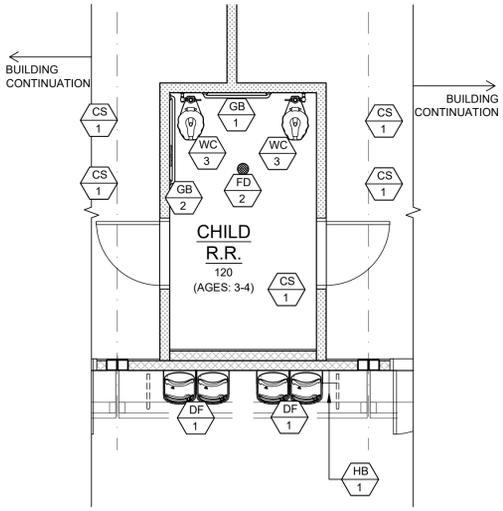
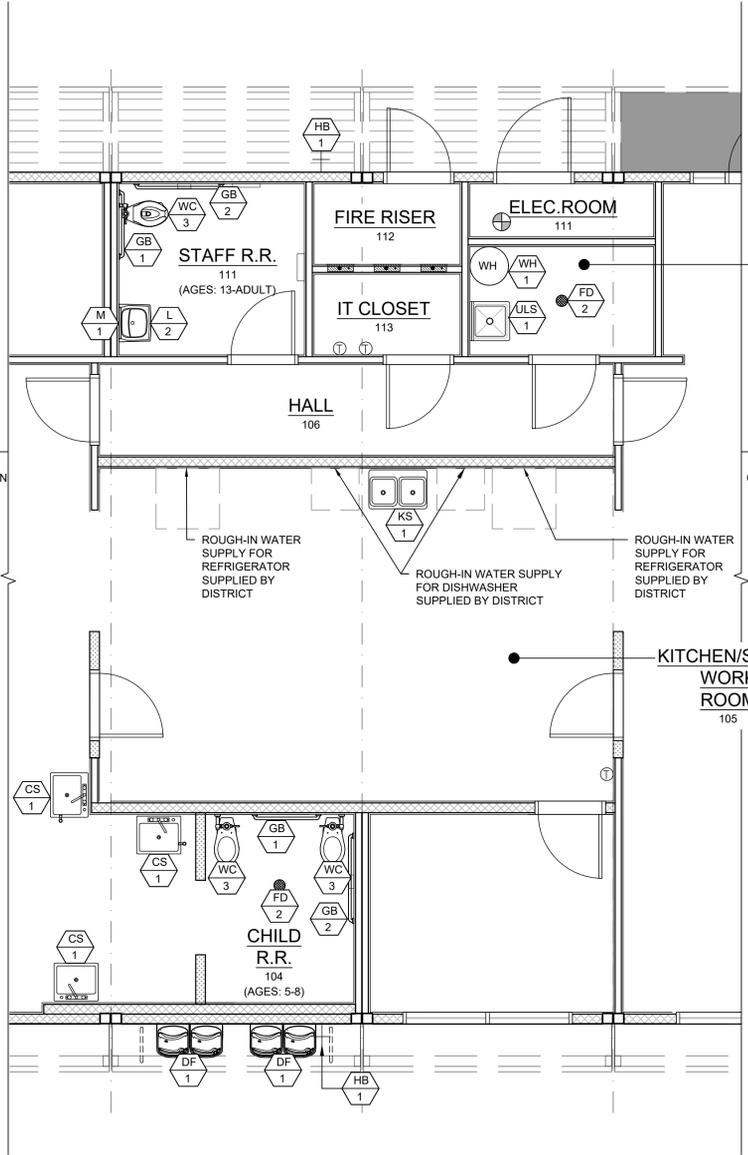
**E1.4**



**LIGHTING CONTROL PLAN**

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

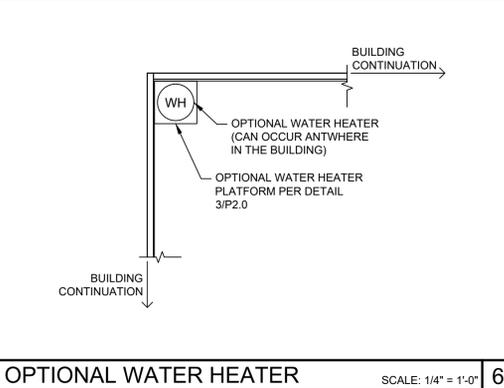
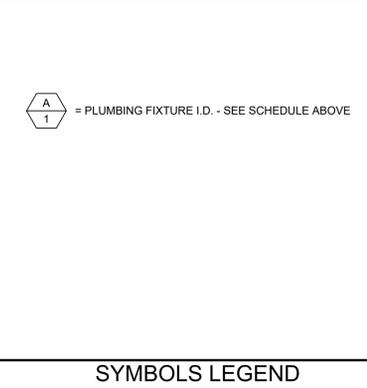




MARK	FIXTURE <sup>1</sup>	TYPE AT KINDERGARTEN (AGES 3-4)	TYPE AT ELEMENTARY (AGES 5-8)	TYPE AT MIDDLE SCHOOL (AGES 9-12)	TYPE AT HIGH SCHOOL (AGES 13-ADULT)	REMARKS
WC 1 ADA	WATER CLOSET	CANNOT USE	WALL MOUNT TYPE KOHLER 'KINGSTON' MODEL K-4325 OR EQUAL. LOWEST AT 12" A.F.F. - FLOW RATE OF 1.28 G.P.F.	WALL MOUNT TYPE KOHLER 'KINGSTON' MODEL K-4325 OR EQUAL. LOWEST AT 15" A.F.F. - FLOW RATE OF 1.28 G.P.F.	WALL MOUNT TYPE KOHLER 'KINGSTON' MODEL K-4325 OR EQUAL. LOWEST AT 17" A.F.F. - FLOW RATE OF 1.28 G.P.F.	FLUSH VALVE ZURN MODEL Z8000AV-HET - 1.28 G.P.F. OR EQUAL. LOCATE AS SPECIFIED ON FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE.
WC 2	WATER CLOSET	FLOOR MOUNT TANK TYPE AMERICAN STANDARD #3128.001 FOR BOWL #4019.228 LEFT TANK #4019.828 RIGHT TANK	FLOOR MOUNT TANK TYPE AMERICAN STANDARD w/2.260T SEAT (2" THICK) #3128.001 FOR BOWL #4019.228 LEFT TANK #4019.828 RIGHT TANK	FLOOR MOUNT TANK TYPE KOHLER 'WELLWORTH' MODEL K-3998 OR EQUAL	FLOOR MOUNT TANK TYPE KOHLER 'WELLWORTH' MODEL K-3999 OR EQUAL ADA COMPLIANT	WC/2 FIXTURE MAX FLOW RATE OF 1.28 G.P.F. - LOCATE AS SPECIFIED ON FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE.
WC 3 ADA	WATER CLOSET	FLOOR MOUNT FLUSH VALVE TYPE KOHLER 'PRIMARY' MODEL K-96054 OR EQUAL. FLOW RATE OF 1.28 G.P.F.	FLOOR MOUNT FLUSH VALVE TYPE KOHLER 'JUVENILE ULTRA' MODEL K-96059 OR EQUAL - FLOW RATE OF 1.28 G.P.F.	FLOOR MOUNT FLUSH VALVE TYPE KOHLER 'WELLCOMME ULTRA' MODEL K-96053 OR EQUAL - FLOW RATE OF 1.28 G.P.F.	FLOOR MOUNT FLUSH VALVE TYPE KOHLER 'HIGHCLIFF ULTRA' MODEL K-96057 OR EQUAL - FLOW RATE OF 1.28 G.P.F.	FLUSH VALVE ZURN MODEL Z8000AV-HET - 1.28 G.P.F. OR EQUAL. LOCATE AS SPECIFIED ON FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE.
L 1	BOYS/GIRLS LAVATORY	KOHLER 'KINGSTON' MODEL K-2007-0				BOY/GIRL RESTROOM - ZURN MODEL 86100-XL-3M - COLD WATER ONLY - SINGLE SPOUT MOUNT AS SPECIFIED IN FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 10/P2.0 - FLOW RATE OF 0.5 G.P.M. METER FAUCETS SHALL REMAIN OPEN FOR 10 SECONDS MIN.
L 2	ADULT LAVATORY	KOHLER 'KINGSTON' MODEL K-2005-0				ADULT RESTROOM - ZURN MODEL Z7440-XL-FC HOT/COLD WATER - 4" ON CENTER HOLE. MOUNT AS SPECIFIED IN FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 10/P2.0.
UR 1	URINAL	WALL MOUNT TYPE KOHLER MODEL DEXTER K-5452-ET-0 OR EQUAL. FLOW RATE = 0.125 gpf				FLUSH VALVE ZURN MODEL Z6003-ULF (0.125gpf) OR EQUAL. MOUNT AS SPECIFIED IN FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE.
M 1	MIRROR	WALL MOUNT TYPE BOBRICK MODEL B165 18X30 OR EQUAL				MOUNT AS SPECIFIED IN FLOOR PLANS. MOUNT ACCESSIBLE MIRROR PER SCHEDULE.
GB 1	36" GRAB BARS	WALL MOUNT TYPE CREATIVE SPECIALTIES INTERNATIONAL MODEL 8736 & 8748 (1 1/4" CONCEALED SCREW 36" & 48") OR EQUAL				18 GA. 304 STAINLESS STEEL SATIN FINISH MOUNT AS SPECIFIED IN FLOOR PLANS AND PER SCHEDULE 10/P2.0. (STRUCTURAL STRENGTH OF GRAB BARS 2508 MIN.)
WH 1	WATER HEATER	RHEEM 20 GALLON ELECTRIC WATER HEATER MODEL PROE20-1-RH-POU 240 VOLT SINGLE PHASE				AVAILABLE IN 6, 10, 20 AND 30 GALLON MODELS (MAX WATER HEATER WEIGHT) PER 6/M1.4 OR 1/P2.0
ITWH 1	INSTANT-TEMP WATER HEATER	CHROMOMITE INSTANT-TEMP WATER HEATER MODEL M20L/240 INSTANT SINGLE PHASE 104"				CHROMOMITE MODEL M20L/208 OR EQUAL SEE DETAIL 3/P3.0
FS 1	CUSTODIAN SINK	FLORESTONE FLOOR SINK MOLDED MOP RECEPTORS MODEL MSR-2424 W/ 3" DRAIN OR EQUAL				ZURN 843-MH-RC OR EQUAL
ULS 1	UTILITY SINK	WALL MOUNT TYPE FLORESTONE FM OR EQUAL				CAITLIN CBK110CP OR EQUAL
FD 1	FLOOR DRAIN	WOOD FLOOR DRAIN SIOUX CHIEF MODEL MODEL 822-2DNRV OR EQUAL				LOCATE AS SPECIFIED ON FLOOR PLANS.
FD 2	FLOOR DRAIN	CONCRETE FLOOR DRAIN ZURN MODEL P415-CC W/ STANDARD GRATE ZURN 33160-002 OR EQUAL				LOCATE AS SPECIFIED ON FLOOR PLANS. (FLOOR DRAIN TO BE USED ON CONCRETE ONLY) 1/4" MAX. OPENING IN ALL DIRECTIONS AT DRAIN GRATE
CS 1	CLASSROOM SINK	ROC MODEL 25103 25X22 SINGLE BOWL SINK OR EQUAL				FAUCET - ZURN MODEL Z2871-B4-XL W/WRIST BLADES. LOCATE AS SPECIFIED ON FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER DETAILS 4 & 6/P3.0.
DF 1	DRINKING FOUNTAIN	ELKAY MODEL VRCITLDDWSK WATER FOUNTAIN				ELKAY MODEL EDFP217C SEE DETAIL 5/P3.0
HB 1	HOSE BIBB	STANDARD HOSE BIBB ARROWHEAD MODEL 353KLF OR EQUAL				LOCATE AS SPECIFIED ON FLOOR PLANS.
KS 1	DBL ADA SINK KITCHEN SINK	CAITLIN FAUCET CBK110CP				LOCATE AS SPECIFIED ON FLOOR PLANS.

- NOTES:  
 1. ALL WATER FIXTURES MUST MEET REQUIREMENTS OF CAL-GREEN TITLE 24, PART 11, SECTION 5.303.3 "WATER CONSERVING PLUMBING FIXTURES & FITTINGS".  
 2. FOR OPTIONAL ACCESSIBLE FLOOR-MOUNT WATER CLOSET, SEE PLUMBING SCHEDULE MARK WC/3 (NOT SHOWN ON PLAN).  
 3. NOT ALL ITEMS LISTED MAY OCCUR IN THIS PROJECT.  
 4. THERE SHOULD BE NO SHARP OR ABRASIVE UNDER LAVS OR SINKS.  
 5. REFER TO DETAIL 7/P3.0 FOR SCHEDULE OF ACCESSIBLE HEIGHTS AT FIXTURES.

PLUMBING FIXTURE SCHEDULE



- PLUMBING NOTE  
 MODULAR MFR. TO STUB THROUGH FLOOR ALL PLUMBING LINES. BUILDING PERIMETER POC'S SHOWN ARE FOR COORDINATION PURPOSES ONLY. ALL UNDER-FLOOR CONNECTIONS ARE BY SITE CONTRACTOR, U.O.N.
- DIMENSIONS ARE TO FACE OF FINISH (F.O.F.) UNLESS NOTED OTHERWISE (i.e. F.O.C., 4)
  - RESTROOM CONFIGURATION MAY VARY PER BUILDING CONFIGURATION.
  - RESTROOM MODULE OCCURS ONLY AT END OF BUILDING. SINGLE RESTROOMS MAY OCCUR IN ANY PART OF A BUILDING.
  - RESTROOM MODULE CANNOT STAND ALONE AND SHALL BE ASSEMBLED TOGETHER WITH AT LEAST ONE OTHER 12'x40' MODULE.
  - INTERIOR WALLS MAY OCCUR THROUGHOUT BUILDING. REFER TO SHEET S8.1 OR S9.1 FOR ATTACHMENTS.
  - REFER TO SCHEDULE 10/P2.0 FOR ACCESSIBLE HEIGHTS AT TOILETS.
  - REFER TO DETAILS 1, 3, 4 & 5, SHEET A7.1 FOR TOILET PARTITION ANCHORAGE BLOCKING.
  - SEWER AND WATER STUB OUTS SHALL BE LOCATED WITHIN THE ALLOWABLE AREA AS SHOWN ON FLOOR PLAN AND CONNECTIONS SHALL BE EASILY ACCESSIBLE FOR FUTURE RELOCATION. STUB OUT HEIGHT SHALL BE COORDINATED BY THE MANUFACTURER.
  - PIPING MATERIAL
    - WATER: COPPER TYPE "L", 95/5 SOLDER.
    - WASTE DRAIN AND VENT: ABS.

GENERAL NOTES

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**AMS**  
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 24' x 40' THRU 120' x 40'  
 (LOW SEISMIC)  
**GEN7**  
 by AMS

SITE SPECIFIC PROJECT NAME  
 SOLANO COMMUNITY COLLEGE DISTRICT  
 CHILD DEVELOPMENT CENTER  
 (1) 96'x40' BUILDING

2019 CBC PRE-CHECK (PC) DOCUMENT  
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 MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT  
 PATRICK CANNON  
 No. C12631  
 Ren. 3-31-23  
 STATE OF CALIFORNIA

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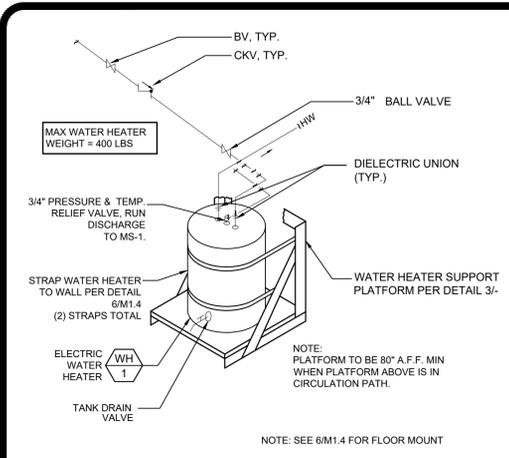
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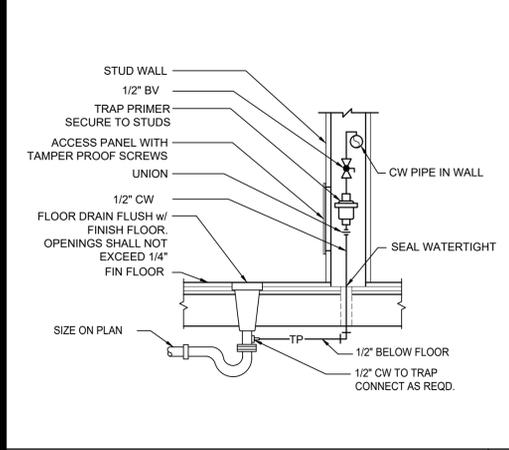
RESTROOM OPTIONS  
 PLUMBING PLAN  
 & FIXTURE SCHEDULE

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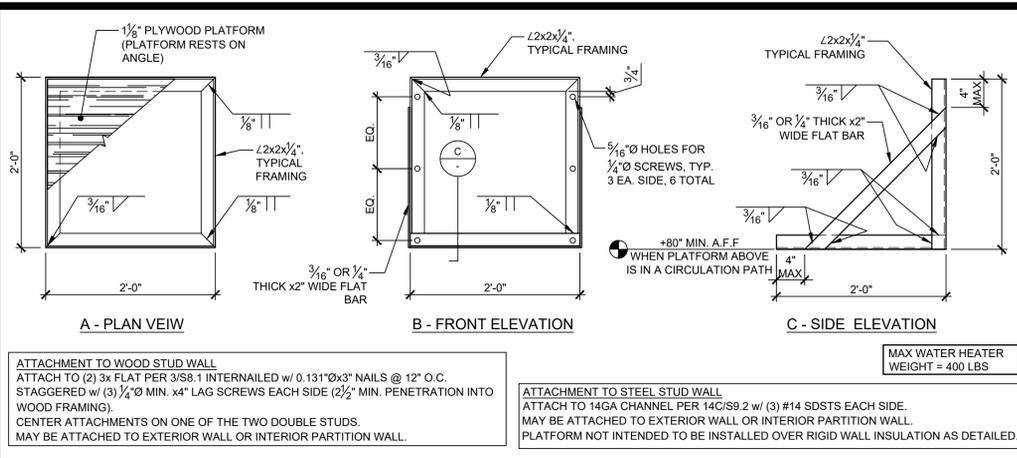
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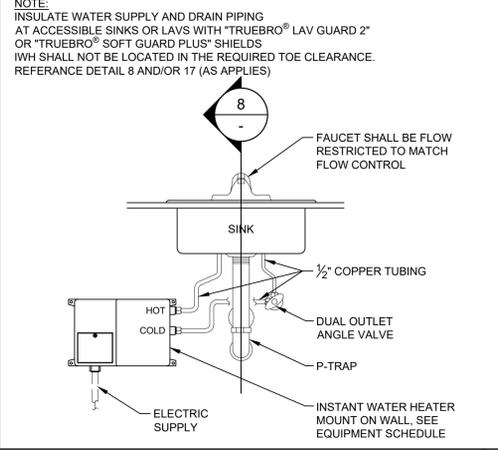
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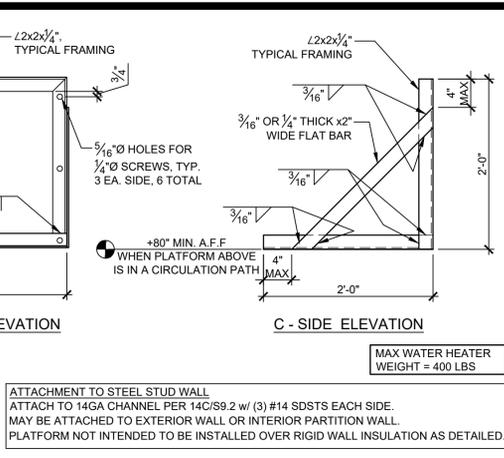
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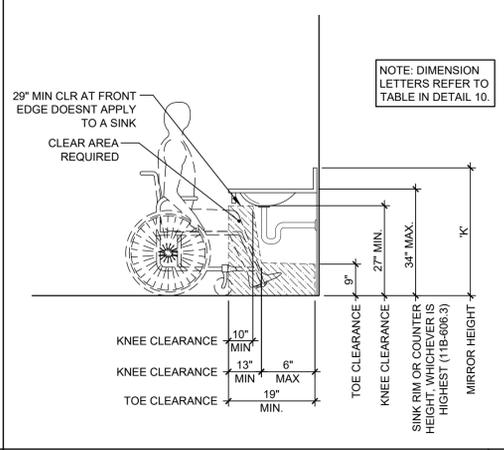
**TRAP PRIMER DETAIL** NOT TO SCALE 6



**INSTANT WATER HEATER DETAIL** NOT TO SCALE 7



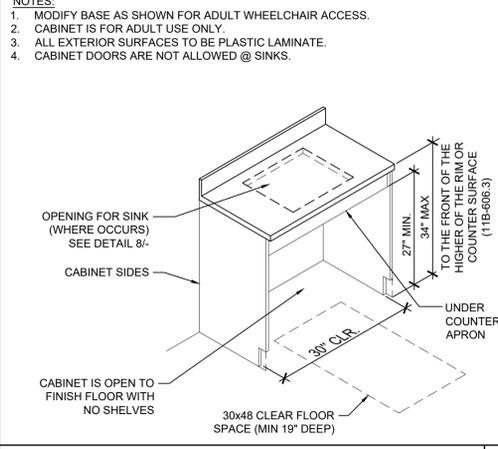
**ACCESSIBLE CLASSROOM SINK** NOT TO SCALE 8



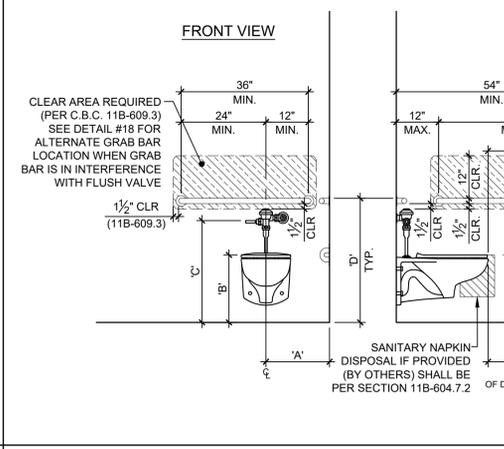
**ACCESSIBLE HEIGHTS TABLE** NOT TO SCALE 10

FIXTURE & MEASUREMENT POINT	PRIMARY USERS				NOTES
	AGES 3-4	AGES 5-8	AGES 9-12	AGES 13-ADULT	
A TOILET, CENTERLINE FROM FACE OF WALL	12" SUGGESTED	12" TO 15" SUGGESTED	15" TO 18" SUGGESTED	17" MIN. TO 18" MAX.	
B TOILET, TOP OF SEAT HEIGHT	11" TO 12" SUGGESTED	12" TO 15" SUGGESTED	15" TO 17" SUGGESTED	17" MIN. TO 19" MAX.	
C TOILET, TOP OF FLUSH CONTROLS	36" MAX.	36" MAX.	36" MAX.	44" MAX.	FLUSH CONTROLS SHALL BE LOCATED ON OPEN SIDE OF TOILET.
D GRAB BAR, TOP OF BAR	18" TO 20" SUGGESTED	20" TO 25" SUGGESTED	25" TO 27" SUGGESTED	33" MIN. TO 36" MAX.	
E TOILET PAPER DISPENSER, HEIGHT TO OUTLET	14" SUGGESTED	14" TO 17" SUGGESTED	17" TO 19" SUGGESTED	19" MIN.	CENTERLINE OF DISPENSER OUTLET SHALL BE BETWEEN 7" TO 9" IN FRONT OF THE TOILET. OUTLET OF DISPENSER MUST BE BELOW GRAB BAR. DISPENSER (INCLUDING FULL TOILET PAPER ROLL) MUST NOT ENCRoACH INTO REQ'D GRAB BAR CLEARANCE.
F TOILET SEAT COVER, HEIGHT TO TOP OF OUTLET	24" TO 32" SUGGESTED	30" TO 32" SUGGESTED	32" TO 36" SUGGESTED	40" MAX.	
G URINAL, LIP HEIGHT	12" TO 13" SUGGESTED	13" TO 15" SUGGESTED	15" TO 17" SUGGESTED	17" MAX.	
H URINAL, HEIGHT OF FLUSH HANDLE	36" MAX.	36" MAX.	36" MAX.	44" MAX.	
I LAVATORY, HEIGHT TO HIGHEST POINT AT FRONT OF LAV. OR COUNTER	24" TO 28" SUGGESTED	31" MAX.	31" MAX.	34" MAX.	
J LAVATORY, VERTICAL KNEE CLEARANCE		24" MIN.	24" MIN.	29"-27" OVER THE 8" DEPTH SHOWN	29" MIN TO BOTTOM FRONT EDGE OF LAV; 27" MIN @ 8" DEEP
K MIRROR (ABOVE LAVATORY OR COUNTERTOP), LOWEST POINT OF REFLECTIVE SURFACE	24" TO 32" SUGGESTED	30" TO 32" SUGGESTED	32" TO 36" SUGGESTED	40" MAX.	MIRROR NOT LOCATED ABOVE LAVATORY OR COUNTERTOP SHALL BE MOUNTED SO THAT LOWEST EDGE OF REFLECTIVE SURFACE IS 35" MAX. ABOVE FINISH FLOOR.
L DISPENSERS, DRYERS, HEIGHT TO TOP OF OUTLET, HANDLE OR OPERATING MECHANISM (WHICHEVER IS HIGHEST)	24" TO 32" SUGGESTED	30" TO 32" SUGGESTED	32" TO 36" SUGGESTED	40" MAX.	ACCESSORIES SHALL COMPLY WITH 11B-307.2
M LO DRINKING FOUNTAIN, HEIGHT TO BUBBLER	24" TO 30" * SUGGESTED	30" TO 32" * SUGGESTED	32" TO 36" SUGGESTED	36" MAX.	KNEE CLEARANCE 27" H. AT 8" DEEP IS REQ'D IF HIGHER THAN 30" A.F.F.
N HI DRINKING FOUNTAIN, HEIGHT TO BUBBLER	same as ADULT	same as ADULT	same as ADULT	38" MIN. TO 43" MAX.	

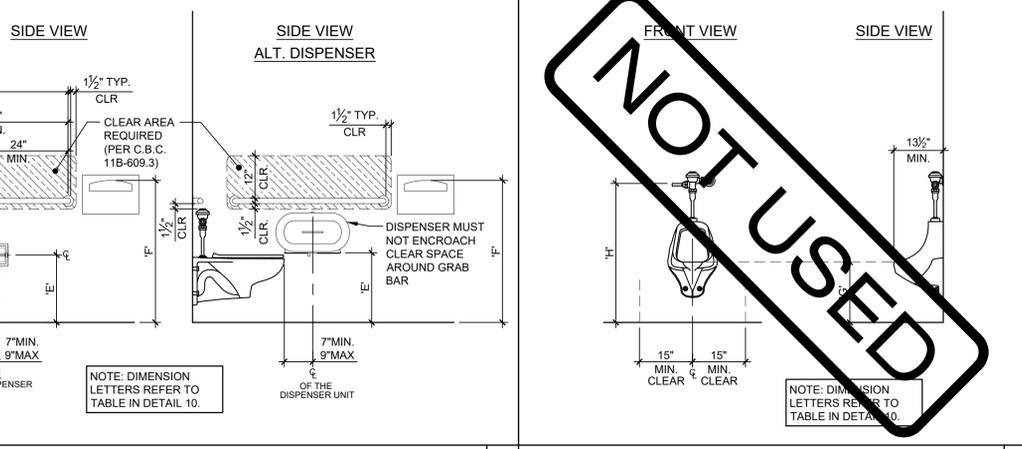
**NOTES:**  
 1. THIS TABLE AND RELATED DIAGRAMS ILLUSTRATE THE SPECIFIC REQUIREMENTS OF CALIF. TITLE 24 (2019 C.B.C. SECTION 11B-601) AND IS SHOWN HERE ONLY AS AN AID FOR CONSTRUCTION AND INSTALLATION.  
 2. ACCESSORIES ARE NOT IN MANUFACTURER'S SCOPE OF WORK.  
 3. DIMENSIONS GIVEN ARE FROM FACE OF FINISH, UNLESS OTHERWISE NOTED.  
 4. NOT ALL ITEMS LISTED MAY OCCUR IN THE PROJECT.  
 5. HEIGHTS CHOSEN FOR CHILDREN'S WATER CLOSETS & ACCESSORIES D & E SHALL BE CONSISTENTLY APPLIED FOR THE AGE GROUP.  
 \* WHERE A D.F. FOR CHILDREN IS MOUNTED MAXIMUM 30" A.F.F., THE SPOUT SHALL BE MAXIMUM 3-1/2" FROM THE FRONT EDGE OF THE UNIT



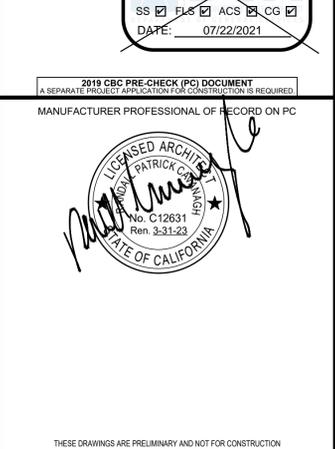
**HI-LO DRINKING FOUNTAIN** NOT TO SCALE 11



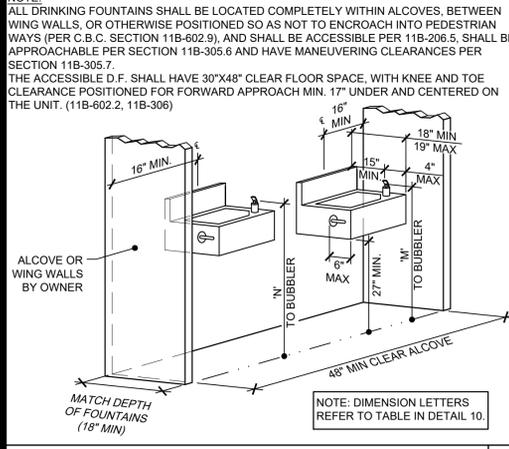
**ACCESSIBLE CABINET DETAIL** NOT TO SCALE 12



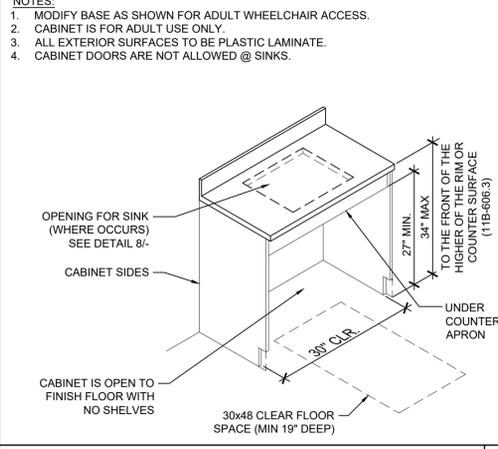
**ACCESSIBLE TOILET AND ACCESSORIES** SCALE: 1/2" = 1'-0" 14



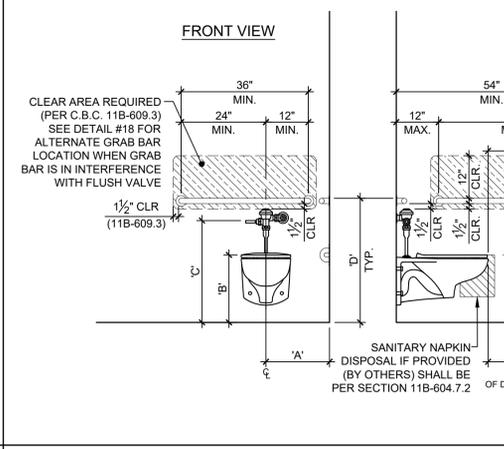
**ACCESSIBLE URINAL** SCALE: 1/2" = 1'-0" 15



**LAVATORY & ACCESSORIES** SCALE: 1/2" = 1'-0" 17



**REAR WALL GRAB BAR SHIFT** SCALE: 1/2" = 1'-0" 18



**DETAIL** SCALE: 1/2" = 1'-0" 19

**PLUMBING NOTES** SCALE: 1/2" = 1'-0" 20

- DWV PIPING SHALL BE ABS PLASTIC
- COLD WATER SUPPLY SHALL BE TYPE L COPPER
- MIN SLOPE 1/4" PER FOOT MAY SLOPE 4" CI AT 1/8" PER FOOT VENTS SHALL TERMINATE NOT LESS THAN 10 FEET FROM OR AT LEAST 3 FT. ABOVE ANY WINDOW, DOOR, AIR INTAKE OR VENT SHAFT, NOR LESS THAN 3 FT. IN EVERY DIRECTION FROM ANY LOT LINE; ALLEY AND STREET EXCEPTED; EXTEND 6" ABOVE THE ROOF

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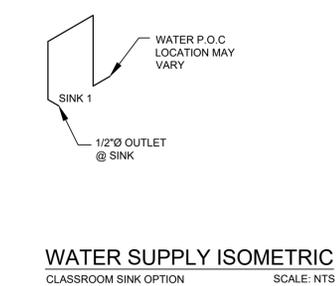
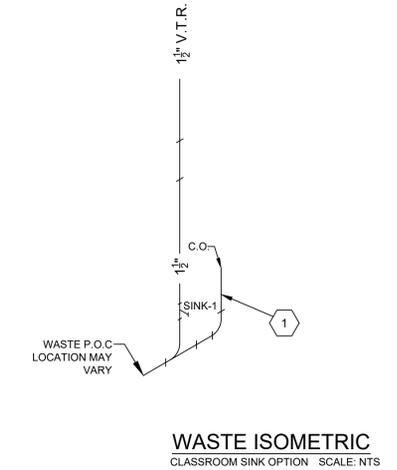
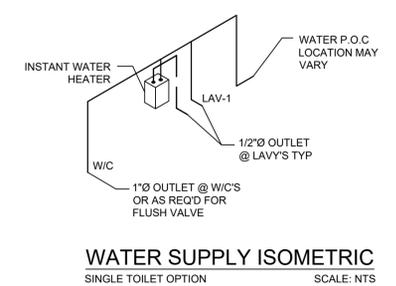
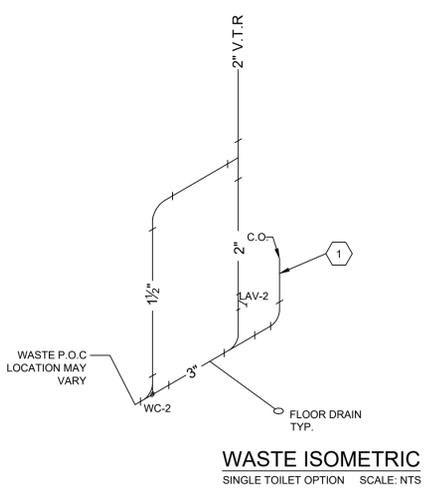
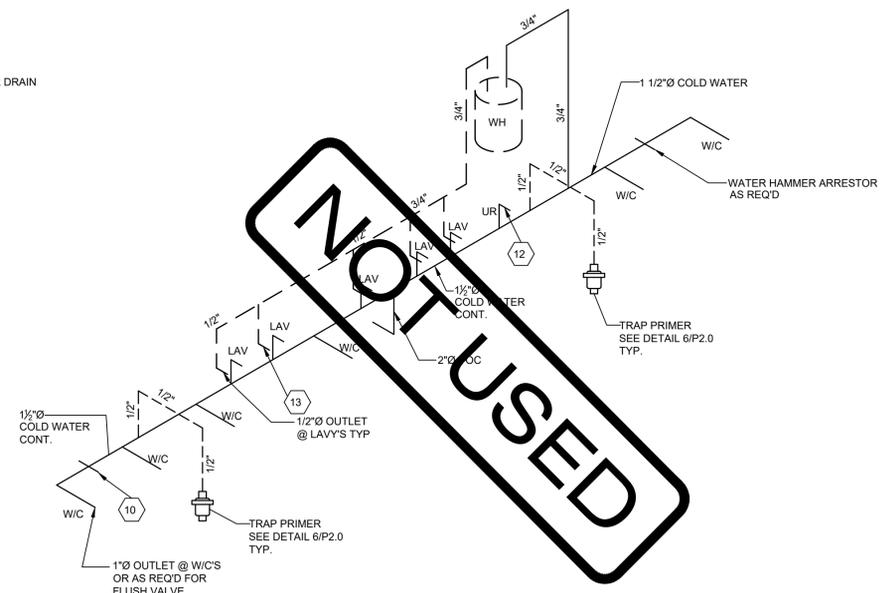
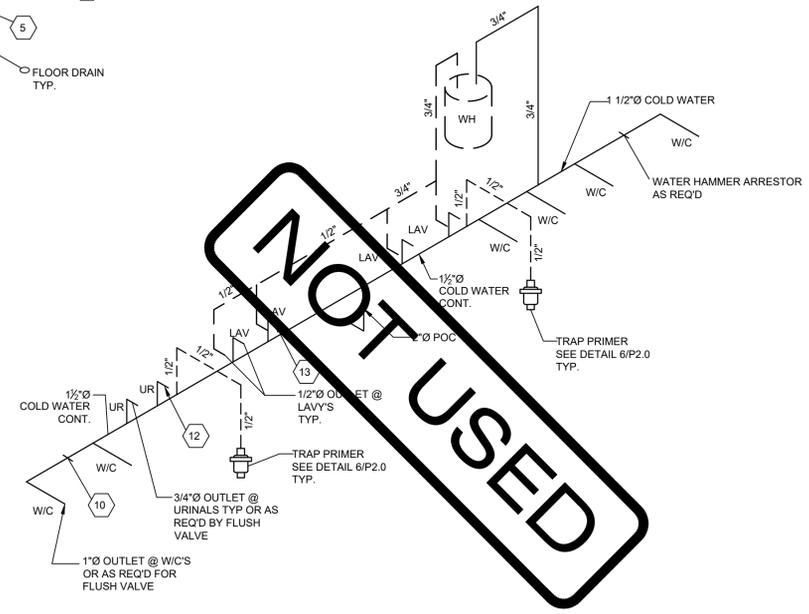
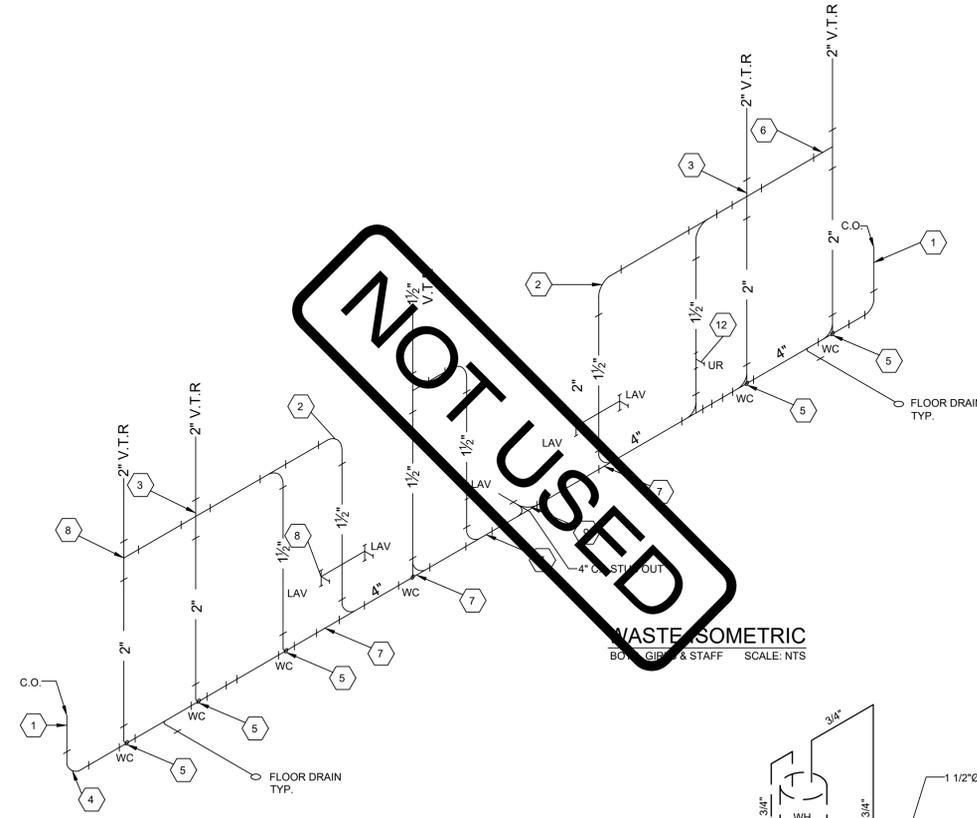
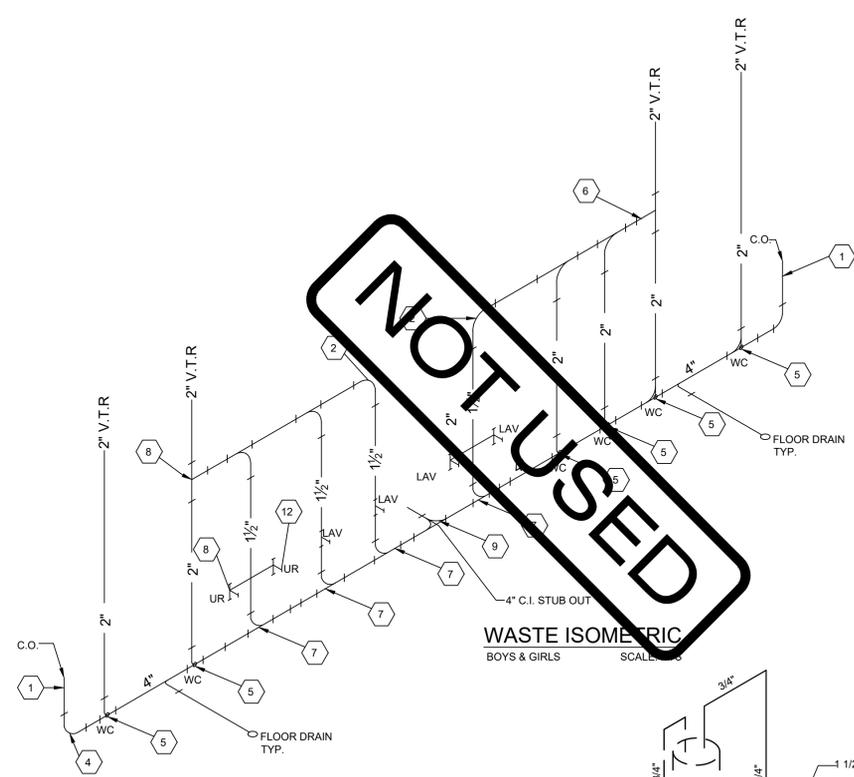
2019 CBC PRE-CHECK (PC) DOCUMENT  
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REGISTERED ARCHITECT  
 PATRICK GARDNER  
 No. C12631  
 Ren. 2-31-23  
 STATE OF CALIFORNIA

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 PROJECT NO: XXXX-20  
 SHEET TITLE:  
**PLUMBING DETAILS & ACCESSIBLE DETAILS**  
 SHEET NUMBER:  
**P2.0**



#	KEY NOTES
1	4" CLEAN OUT
2	VENT 90
3	VENT CROSS
4	4" QUARTER BEND
5	SMITH#0600 CARRIER
6	2" SANITARY TAP TEE
7	4x4x2 COMBINATION WYE 1/8 BEND
8	2x2x1 1/2 SANITARY TEE
9	4" DOUBLE COMBINATION
10	WATER HAMMER ARRESTOR
11	1" CW STUB AT WATER CLOSETS
12	3/4" CW STUB AT URINALS
13	1/2" CW STUB AT LAVATORIES

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PRE-CHECKED SET NAME  
**24' x 40' THRU 120' x 40'**  
(LOW SEISMIC)  
**GEN7**  
by AMS

SITE SPECIFIC PROJECT NAME  
.

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-148326 PC  
REVIEWED FOR  
SS  FLS  ACS  CG   
DATE: 07/22/2021

2019 CBC PRE-CHECK (PC) DOCUMENT  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.  
MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT  
PATRICK CANNON  
No. C12631  
Ren. 3-31-23  
STATE OF CALIFORNIA

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#	REVISIONS

DRAWN BY:  
SCALE: AS NOTED  
DATE: MMDDYY  
PROJECT NO: XXXX-20  
SHEET TITLE:

**PLUMBING ISOMETRICS**

SHEET NUMBER:  
**P3.0**

DSA-OVERHEAD FIRE SPRINKLER SYSTEM GENERAL NOTES

- A COPY OF THE ORIGINAL, PREVIOUSLY APPROVED DSA UNDERGROUND PIPING PLANS OR OTHER WATER SUPPLY COMPONENTS, SUCH AS WATER TANKS, FIRE PUMPS, ETC., FOR THE PROJECT SHALL BE INCLUDED IN ALL AUTOMATIC FIRE SPRINKLER DEFERRED SUBMITTAL PLAN PACKAGES. ALL DEVIATIONS FROM THE PREVIOUSLY APPROVED PLANS SHALL BE JUSTIFIED AND SUBMITTED TO DSA VIA THE CHANGE ORDER PROCESS AS APPLICABLE. UNDERGROUND PIPING SIZE IS NOT THE RESPONSIBILITY OF DSA, AND THE ARCHITECT OF RECORD SHALL ASSUME FULL LIABILITY FOR UNDERSIZED PIPING SHOULD THE FINAL DESIGN OF THE FIRE SPRINKLER SYSTEM REQUIRE LARGER PIPING, ADDITIONAL WATER SUPPLY, FIRE PUMPS, OR OTHER EQUIPMENT OR ITEMS.
- 2016 NFPA-13, SEC. 8.16.4.1.1: THE DESIGNER SHALL INDICATE ON THE PLANS, ALL PIPING SUBJECT TO FREEZING (WHERE WATER TEMPERATURE CANNOT BE MAINTAINED ABOVE 40-DEGREES FAHRENHEIT) AND PROVIDE APPROVED PROTECTION.
- 2016 NFPA-13 SEC. 10.10.2.1.1: UNDERGROUND MAINS AND LEAD-IN CONNECTIONS TO SYSTEM RISERS SHALL BE COMPLETELY FLUSHED BEFORE BEING CONNECTED TO THE OVERHEAD SPRINKLER PIPING. WHERE UNDERGROUND PIPING IS FLUSHED AND NOT IMMEDIATELY CONNECTED TO THE OVERHEAD PIPING, THE RISER SHALL BE CAPPED OR OTHERWISE PROTECTED TO PREVENT DEBRIS, DIRT, OR ANIMALS FROM ENTERING INTO THE UNDERGROUND PIPING. (THIS MUST BE WITNESSED BY THE PROJECT INSPECTOR.)
- PROVIDE (NET SIGNED) WATER FLOW TEST INFORMATION NO MORE THAN 12 MONTHS OLD, AND INDICATE THE LOCATIONS AND HEIGHT ELEVATION(S) OF THE TEST RESIDUAL FLOW HYDRANTS. WATER FLOW TEST INFORMATION MUST BE PROVIDED BY, OR WITNESSED BY, THE LOCAL WATER PEARVOR, UTILITY COMPANY OR LOCAL FIRE DEPARTMENT. (2016 CFC, 508.4)
- ARCHITECT OF RECORD (AOR), MECHANICAL ENGINEER (ME) AND FIRE PROTECTION CONTRACTOR (C-16) SHALL AFFIX THEIR SEAL, STAMP AND SIGN ALL SUBMITTALS, OR PROVIDE DOCUMENTATION PER DSA A-18.
- 2016 NFPA-13 SEC. 6.2.9.5 AND SEC. 6.2.9.6: PROVIDE A SPARE SPRINKLER HEAD CABINET, SPRINKLER WRENCH, AND NO FEWER THAN SIX (6) SPRINKLER HEADS MATCHING THE TYPES AND TEMPERATURE RATING IN EACH PROTECTED AREA FOR SYSTEMS LESS THAN 300 SPRINKLERS (12 SPARE SPRINKLER HEADS FOR SYSTEMS OF 300 TO 1,000 SPRINKLERS).
- 2016 NFPA-13 SEC. 8.17.2.4.7.1: SIGNAGE SHALL BE PROVIDED AS REQUIRED.
- 2016 NFPA-13 SEC. 9.3.6.3: THE END (LAST) SPRINKLER ON EACH LINE SHALL BE RESTRAINED AGAINST EXCESSIVE VERTICAL AND LATERAL MOVEMENT.
- 2016 NFPA-13 FIGURE 10.10.1: A COPY OF THE COMPLETED AND SIGNED "CONTRACTOR'S MATERIAL & TEST CERTIFICATE FOR UNDERGROUND PIPING" SHALL BE INCLUDED WITH THE SUBMITTAL.
- 2016 NFPA-13 SEC. 10.10.2.2.1: ALL PIPING AND ATTACHED APPURTENANCES SUBJECT TO WORKING PRESSURE SHALL BE HYDROSTATICALLY TESTED AT 200-PSI, OR 50-PSI IN EXCESS OF SYSTEM WORKING PRESSURE, WHICHEVER IS GREATER, AND SHALL MAINTAIN THAT PRESSURE WITHOUT LOSS FOR 2 HOURS. (TEST TO BE WITNESSED BY PROJECT INSPECTOR.)
- 2016 NFPA-13 FIGURE 25.1: SPRINKLER CONTRACTOR SHALL COMPLETE AND SIGN THE CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR THE ABOVE GROUND PIPING. THIS FORM SHALL BE GIVEN TO THE PROJECT INSPECTOR WHO WILL FORWARD IT TO DSA FOR FILING IN PROJECT RECORDS.
- 2016 NFPA-13 SEC. 25.5.1: A PERMANENT HYDRAULIC CALCULATION DESIGN INFORMATION PLACARD SHALL BE ATTACHED TO EACH RISER.
- 2016 NFPA-13 SEC. 25.6: A GENERAL INFORMATION SIGN SHALL BE ATTACHED TO EACH RISER.
- 2016 NFPA-13 SEC. 25.2.3.1: THE SPRINKLER FLOW SWITCH SHALL BE TESTED TO CONFIRM THAT WHEN THE INSPECTOR'S TEST VALVE IS OPENED, AN ALARM WILL SOUND NO MORE THAN 90-SECONDS AFTER THE INITIAL FLOW. (TEST TO BE WITNESSED BY THE PROJECT INSPECTOR.)
- 2016 CBC, SEC. 903.4.1: THE MAIN FIRE ALARM PANEL VALVE MONITORING, WATER-FLOW AND TROUBLE SIGNALS SHALL BE DISTINCTLY DIFFERENT, AND SHALL AUTOMATICALLY BE TRANSMITTED TO AN APPROVED CENTRAL STATION MONITORING COMPANY.
- 2016 NFPA-13 SEC. 6.9.1: AND 2013 CBC, 903.4.2: THE FLOW SWITCH SHALL BE CONNECTED TO AN APPROVED EXTERIOR ALARM BELL OR OTHER AUDIBLE ALARM DEVICE (SIZE NOT MANDATED BY CODE) AT EACH RISER. APPROVED IDENTIFICATION SIGNS STATING "SPRINKLER FIRE ALARM-WHEN ALARM SOUNDS CALL 911/FIRE DEPARTMENT" SHALL BE INSTALLED ON THE EXTERIOR ALARM BELL.
- 2019 CBC, SEC. 904.4.3: CONNECTIONS TO PROTECTED PREMISES AND SUPERVISING STATION FIRE ALARM SYSTEMS SHALL BE TESTED TO VERIFY PROPER IDENTIFICATION AND TRANSMISSION OF ALARM SIGNALS FROM AUTOMATIC FIRE EXTINGUISHING SYSTEMS. (TEST TO BE WITNESSED BY PROJECT INSPECTOR.)
- 2019 CBC, 903.4.2 AND 2016 NFPA-13 SEC. 8.17.4.2.1 THRU SEC. 8.17.4.2.4: THE INSPECTOR'S TEST VALVE LOCATION SHALL BE INSTALLED DOWNSTREAM OF THE ALARM DEVICE (WATERFLOW SWITCH). THE PIPE SIZE SHALL BE NO LESS THAN 1-INCH WITH A SMOOTH BORE, CORROSION RESISTANT ORIENT, PROVIDING EQUIVALENT FLOW OF THE SMALLEST ORIFICE OF THE SPRINKLER TYPES INSTALLED ON THE SYSTEM. THE DISCHARGE SHALL BE TO THE EXTERIOR OF THE BUILDING.
- CCR TITLE-19 (PUBLIC SAFETY), ARTICLE 906 (A): A LABEL OF THE SELF-ADHESIVE TYPE SHALL BE PLACED ON THE FIRE DEPARTMENT CONNECTION (FDC) OR ON THE RISER FOR THE FIRE SPRINKLER SYSTEM, INDICATING THE DATE OF THE INSTALLATION AND/OR THE DATE SERVICE WAS PERFORMED, AND THE LICENSE NUMBER OF THE PERSON PERFORMING THE SERVICE WORK.

GENERAL NOTES

- THIS PLAN DETAILS THE FIRE SPRINKLER SYSTEM FOR:
  - SOLANO COMM. COLLEGE DIST. CHILD DEV.
  - 96' X 40'
- BUILDING CONSTRUCTION TYPE: VB
- BUILDING OCCUPANCY: E
- BUILDING AREA: 96' X 40' BLDG. = 3,840 sq.ft.
- ALL DESIGN AND INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 13--2016 EDITION.
- SYSTEM IS DESIGNED FOR LIGHT HAZARD OCCUPANCY @0.10 GPM/SQ.FT. OVER THE HYDRAULICALLY MOST REMOTE AREA + 100 GPM OUTSIDE HOSE STREAM ALLOWANCE. (AREA REDUCED PER NFPA-13, WITH USE OF QUICK RESPONSE HEADS.) BELOW CEILING SPRINKLERS ARE @ MAXIMUM 225 SQ.FT. SPACING. ATTIC SPRINKLERS ARE AT MAX. 168 SQ.FT. SPACING.
- MAIN FITTING NOTES:
  - ALL SPRINKLER MAIN PIPING 2"-4" TO BE SCH.10 PER NFPA-13
  - ALL MAIN OUTLETS TO BE UL LISTED (GROOVED AND OR FEMALE THREADED FOR MECH. TESTS)
  - WELDING TO BE PERFORMED I.A.W. NFPA-13, IF REQUIRED.
  - ALL MAIN FITTINGS TO BE ROLL-GROOVED.
  - ALL MAIN COUPLINGS TO BE ROLL-GROOVED, NON-FLEXIBLE, UNO.
- BRANCH LINE FITTING NOTES:
  - BRANCH LINE PIPING (THREADED) 1"-2" TO BE THREADED SCH-30 OR 40 PER NFPA-13, WITH STANDARD WEIGHT (125 LB.) SCREWED CAST OR DUCTILE IRON FITTINGS.
  - CLEARANCE SHALL BE PROVIDED AROUND ALL PIPING EXTENDING THROUGH WALLS AND FLOORS. HOLES SHALL BE 2" LARGER THAN THE DIAMETER FOR 1" TO 3" AND 4" LARGER THAN THE DIAMETER FOR PIPES 4" AND LARGER.
  - ALL FIRE SPRINKLER SYSTEM EQUIPMENT TO BE UNDERWRITER LABORATORY (UL) LISTED AND CONSISTENT WITH NFPA-13.
  - ALL PIPE HANGERS TO BE IN ACCORDANCE WITH NFPA-13 AND DWG.-DETAILS.
  - ALL SWAY (EARTHQUAKE) BRACING SIZE, LOCATION, SPACING, AND CONNECTIONS TO BE IN ACCORDANCE WITH NFPA-13. SEE DETAIL AND ZONE OF INFLUENCE CALCULATIONS FOR INFORMATION ON SPACING, BRACE TYPE, AND ATTACHMENT METHOD.
  - ALL ARM-OVERS TO BE 1" X 0-4" UNLESS NOTED OTHERWISE.
  - ON THE END HANGER, ATR SHALL BE TIGHTENED DOWN AGAINST THE TOP OF PIPE TO PREVENT MOVEMENT.
  - SPRINKLERS SHOWN IN ACOUSTICAL CEILING TILES ARE NOT NECESSARILY IN CENTER OF TILE.
  - ALL ELECTRICAL WIRING AND MONITORING OF ALARMS AND/OR SUPERVISORY SWITCHES ASSOCIATED WITH THE FIRE SPRINKLER SYSTEM TO BE PERFORMED BY OTHERS, PRIOR TO FINAL INSPECTION.
  - UPON COMPLETION OF THE INSTALLATION A 200 PSI HYDRO TEST FOR 2-HRS WILL BE PROVIDED FOR INSPECTION.
  - UNDERGROUND PIPING SHALL BE FLUSHED PER NFPA-13, PRIOR TO CONNECTION TO SPRINKLER SYSTEMS.
  - D & B FIRE EXTENT OF WORK TO BE AT BASE OF RISER--(SEE RISER DETAIL)
  - A SPARE HEAD BOX WITH HEADS AND WRENCH SHALL BE PROVIDED AT EACH RISER.
  - UPON COMPLETION, THE FOLLOWING SHALL BE PROVIDED TO OWNER: COMPLETED CONTRACTORS MATERIAL & TEST CERTIFICATE; COPY OF NFPA-25.
  - DEVIATIONS FROM APPROVED PLANS SHALL REQUIRE PERMISSION OF THE AUTHORITY HAVING JURISDICTION (NFPA-13-2016 EDITION, SECTION 23.1.2)

SEE SHEET FS-2 FOR ZONE OF INFLUENCE OUTLINE

PIPE SCH.	PIPE SIZE	LENGTH, QUANTITY, LBS./FT.	WEIGHT OF WATER FILLED PIPE	COMBINED WEIGHT OF ALL PIPE IN ZONE (Wp)	Cp VALUE	ADJUSTED ASSIGNED LOAD
10	2 1/2" (5.89) X 48'		283 LBS.	283 LBS.	(1.14)	323 LBS.
				PERCENTAGE(15) FOR FITTINGS AND DEVICES:		48 LBS.
						TOTAL LOAD: 371 LBS. (Fp)

EARTHQUAKE BRACE CALCULATIONS

ZONE OF INFLUENCE CALCULATIONS (PER 2016 NFPA 13-TABLE 9.3.5.9.3)

(Sg) VALUE	LATERAL BRACE
2.44	

PIPE SCH.	PIPE SIZE	LENGTH, QUANTITY, LBS./FT.	WEIGHT OF WATER FILLED PIPE	COMBINED WEIGHT OF ALL PIPE IN ZONE (Wp)	Cp VALUE	ADJUSTED ASSIGNED LOAD
10	2 1/2" (5.89) X 24'		141 LBS.	141 LBS.		141 LBS.
40	1 1/4" (2.93) X 52'		153 LBS.	499 LBS.	(1.14)	351 LBS.
40	1" (2.05) X 100'		205 LBS.	533 LBS.		53 LBS.
				PERCENTAGE(15) FOR FITTINGS AND DEVICES:		53 LBS.
						TOTAL LOAD: 388 LBS. (Fp)

EARTHQUAKE BRACE CALCULATIONS

ASSIGNED LOAD: ADJUSTED (SEE ZONE OF INFLUENCE CALCULATIONS ABOVE)

SPRINKLER MAIN SIZE	MAX. BRACE SPACING	ADJUSTED ASSIGNED LOAD
2 1/2"	24' LAT. - 48' LONG.	388 LBS. (Fp)

BRACE PIPE SIZE	MAX LENGTH	MAX BRACE ANGLE	MAX HORIZ. LOAD
1"	7'-0"	59° FROM VERT.	1310 LBS.

FASTENER SIZE: TABLE 9.3.5.12.1 - PER STEEL CONN. & ANGLE OF BRACE

FASTENER SIZE/TYPE	BRACE ANGLE (DIAGRAM)	MAX ASSIGNED LOAD
1/2" X 1 1/2" HEX BOLT	45°-59° FROM VERT.(FIG.6)(STEEL CONN.)	2050 LBS.

SEISMIC BRACE ATTACHMENT

STRUCTURAL ATTACHMENT FITTING BRACING SYSTEM

MAKE: AECOM MODEL: 077

LISTED LOAD RATING: 2015 ADJUSTED LOAD RATING PER 9.3.5.11.8: 1612 (Lb)

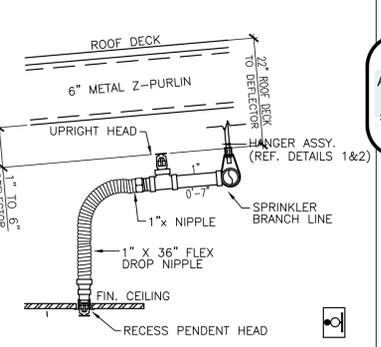
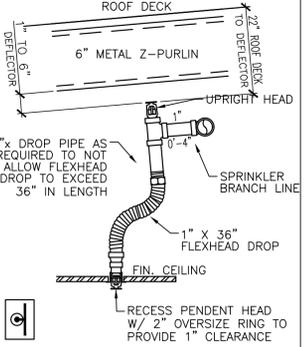
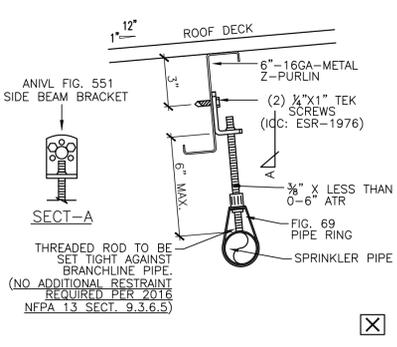
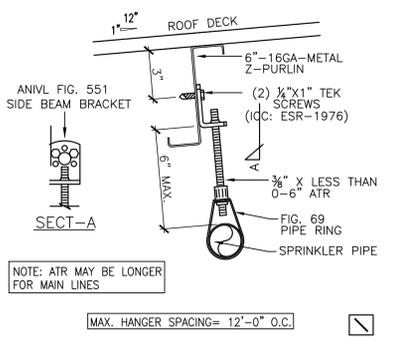
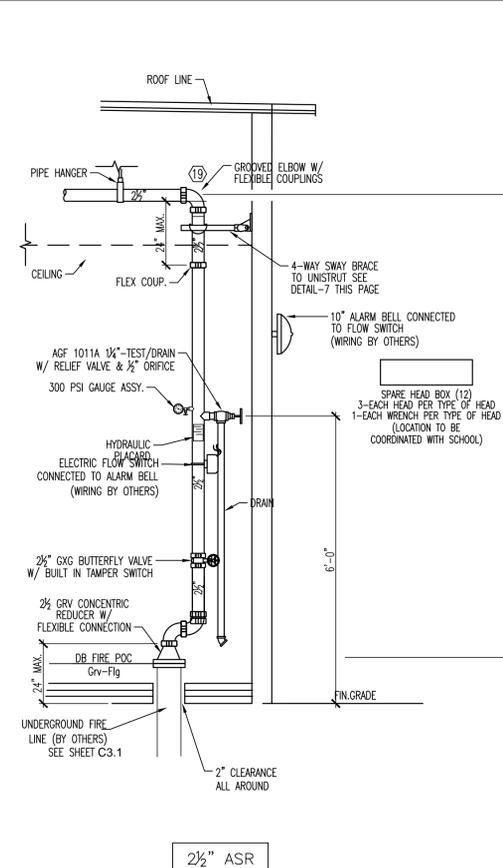
SWAY BRACE (PIPE ATTACHMENT) FITTING:

MAKE: AECOM MODEL: 001/020

LISTED LOAD RATING: 800 ADJUSTED LOAD RATING PER 9.3.5.11.8: 640 (Lb)

HANGER/RESTRAINT NOTE

- LATERAL BRACING IS NOT REQUIRED ON PIPES LESS THAN 2" INDIVIDUALLY SUPPORTED BY RODS LESS THAN 6" LONG, PER 2016 NFPA-13, SEC. 9.3.6.5
- THE END OF LINE RESTRAINT DETAIL #2 ON THIS PLAN WILL RESTRAIN END SPRINKLER AGAINST EXCESSIVE VERTICAL MOVEMENT, AND LATERAL MOVEMENT IS LIMITED BY THE SHORT RODS (6" OR LESS) WHICH MEET THE ABOVE EXCEPTION FOR LATERAL BRACING. NO ADDITIONAL BRACING OR SPLAY WIRE IS REQUIRED ON BRANCH LINES.

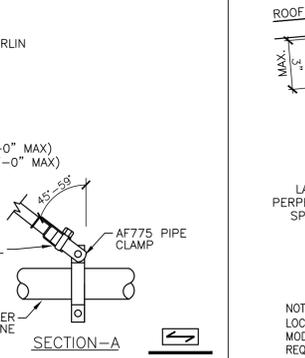
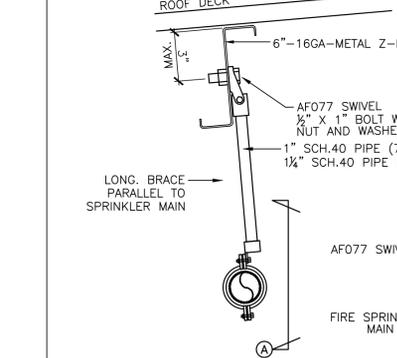
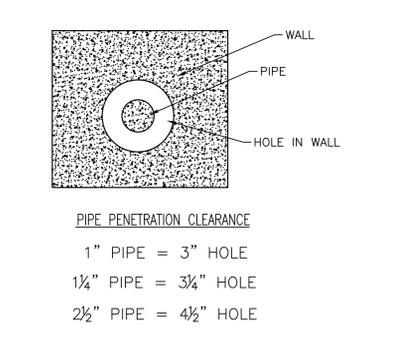


TYPICAL MAIN/BRANCH LINE HANGER DETAIL-1

END OF LINE HANGER/RESTRAINT DETAIL-2

UP & DOWN HEADS DETAIL-3

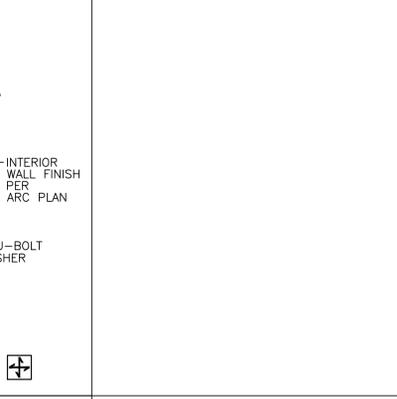
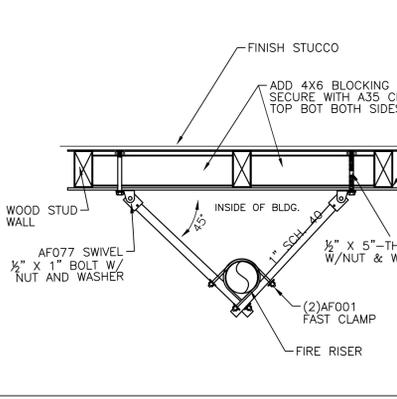
UP & OVER DOWN HEADS (ALT.) DETAIL-3a



WALL PENETRATION DETAIL DETAIL-4

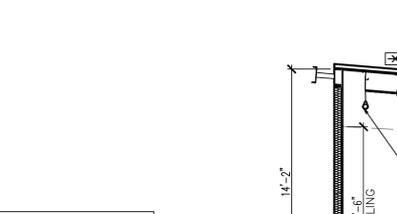
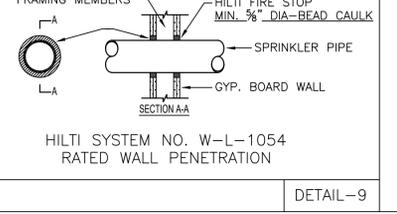
LONGITUDINAL SWAY BRACE DETAIL-5

LATERAL SWAY BRACE DETAIL-6



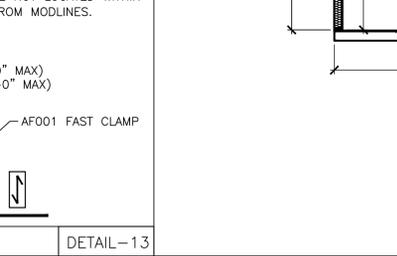
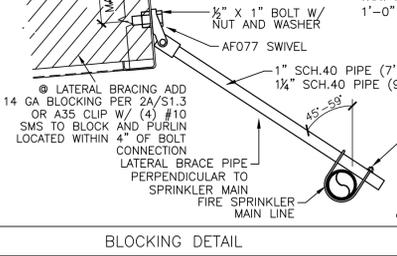
4-WAY SWAY BRACE (WOOD) DETAIL-7

FLEXHEAD-SPRINKLER DROP DETAIL-8



HILTI SYSTEM NO. W-L-1054 RATED WALL PENETRATION DETAIL-9

BUILDING CROSS SECTION - A SCALE: 3/16" = 1'-0"



WATER FLOW INFO.

STATIC:	75 PSI
RESIDUAL:	74 PSI
FLOW:	745 GPM

INFORMATION FROM:

ON-SITE FLOW INFO BY LOCAL AUTHORITIES DATED: 1-5-22

HYDRAULIC CALC. REFERENCE POINT

4-WAY SWAY BRACE

LONG./LAT. SWAY BRACE

FIRE RISER

TYP. HANGER

END OF LINE HANGER/RESTRAINT

UNDERGROUND FIRE MAIN

NEW UNDERGROUND PIPING

EXISTING UNDERGROUND PIPING

POST INDICATOR VALVE (PIV)

KEY VALVE

FIRE DEPARTMENT CONNECTION (FDC)

FIRE HYDRANT

AUTHORITY HAVING JURISDICTION

DATE:	BY:	REVISIONS:

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-120119 INC:  
REVIEWED FOR:  
SS  FLS  ACS   
DATE: 08/23/2022

JOB NO.:  
SCALE: AS NOTED  
DRAWN BY: AR/PM  
DATE: 4/2022  
SHEET NO.: FS-1



TITLE: FIRE SPRINKLER COVER SHEET;  
SOLANO COMMUNITY COLLEGE CHILD DEV.  
4000 SUISUN VALLEY ROAD  
FAIRFIELD, CA, 94534

**HYDRAULIC SYSTEM**  
 THIS BUILDING IS PROTECTED BY A HYDRAULICALLY DESIGNED AUTOMATIC SPRINKLER SYSTEM

LOCATION: SEE PLAN

**SPRINKLER INFORMATION**

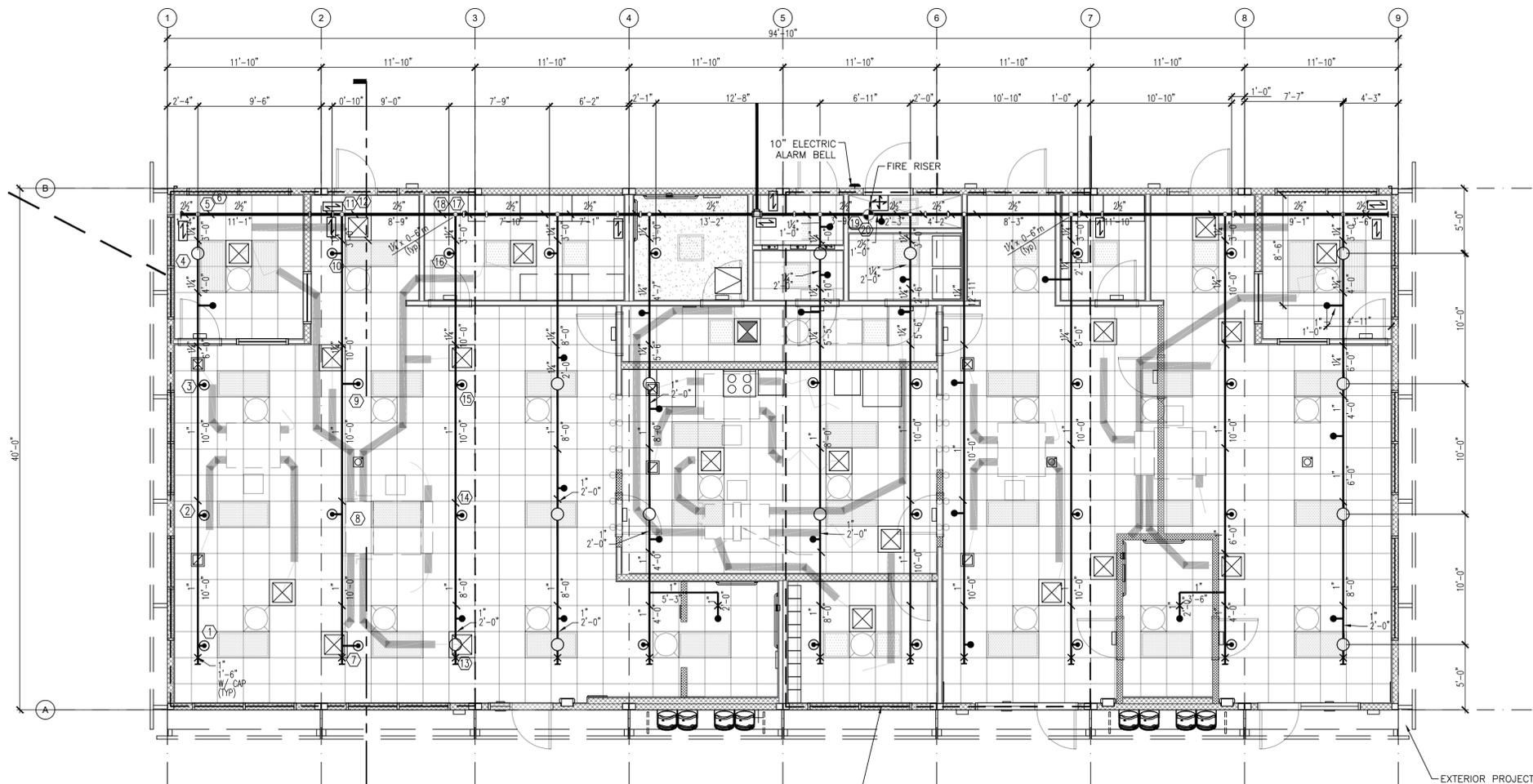
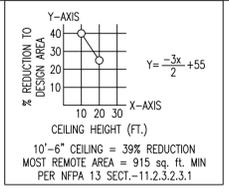
NUMBER OF FLOWING SPRINKLERS	12
MANUFACTURER	TYCO
MODEL	FRB
155°/200° QUICK RESPONSE	
1/2" ORIFICE	5.6 K-FACTOR

**BASIS OF DESIGN**

STANDARD	NFPA 13, 2016 EDITION
HAZARD GROUP	LIGHT HAZARD GROUP
DENSITY	.10 GPM/SQ.FT.
DESIGN AREA OF DISCHARGE	960 SQ.FT.

**SYSTEM DEMAND**

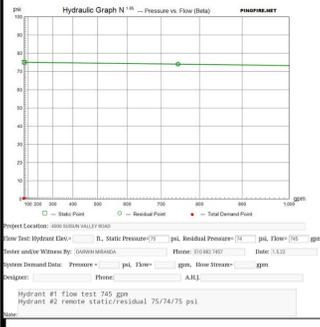
GPM DEMAND AT THE BASE OF THE RISER	202.3 GPM
RESIDUAL PRESSURE AT THE BASE OF THE RISER	29.8 PSI
GPM DEMAND AT THE WATER SUPPLY SOURCE	302.3 GPM
RESIDUAL PRESSURE AT THE WATER SUPPLY SOURCE	30.5 PSI
HOSE STREAM ALLOWANCE	0 GPM INSIDE 100 GPM OUTSIDE 100 GPM TOTAL
REMOTE SPRINKLER FLOW	15.0 GPM @ 8.0 PSI



EARTHQUAKE BRACE ZONE OF INFLUENCE OUTLINE. SEE SHEET FS-1 FOR LOAD CALCS.

EXTERIOR PROJECTIONS LESS THAN 4'-0" DO NOT REQUIRE SPRINKLER PROTECTION PER NFPA 13 8.15.1.2.18.2

**96'X40' MODULAR CLASSROOM BUILDING**  
 SCALE: 3/16" = 1'-0"



FLOW TEST

**WATER FLOW INFO.**

STATIC:	75 PSI
RESIDUAL:	74 PSI
FLOW:	745 GPM

INFORMATION FROM:  
 ON-SITE FLOW INFO BY LOCAL AUTHORITIES  
 DATED: 1-5-22

- HYDRAULIC CALC. REFERENCE POINT**
- 4-WAY SWAY BRACE
  - LONG/LAT. SWAY BRACE
  - FIRE RISER
  - TYP. HANGER
  - END OF LINE HANGER/RESTRAINT

- HANGER LEGEND**
- NEW UNDERGROUND PIPING
  - EXISTING UNDERGROUND PIPING
  - POST INDICATOR VALVE (PIV)
  - KEY VALVE
  - FIRE DEPARTMENT CONNECTION (FDC)
  - FIRE HYDRANT

**FIRE SPRINKLER HEAD LEGEND**

SYM.	MAKE AND MODEL	K-FACTOR	SIZE	TEMP	TYPE	FINISH	CANOPY	QTY.
○	TYCO FRB TY313	5.6	1/2"	200°	UPRIGHT	BRASS	N/A	40
●	TYCO FRB TY323	5.6	1/2"	155°	PENDENT	CHROME	CHR. RECESSED	49

○ DENOTES UP OVER DOWN HEAD SYMBOL

**AUTHORITY HAVING JURISDICTION**

DATE:	BY:	REVISIONS:

**STATE OF CALIFORNIA LICENSED FIRE SPRINKLER CONTRACTOR**

Class C-16  
 License # 410294  
 Expires 8-2023



**AMS**  
 American Modular Systems, Inc.  
 787 Spreckels Ave. Manteca, CA 95336  
 Phone (209) 825-1921 - Fax (209) 825-7018  
 americanmodular.com

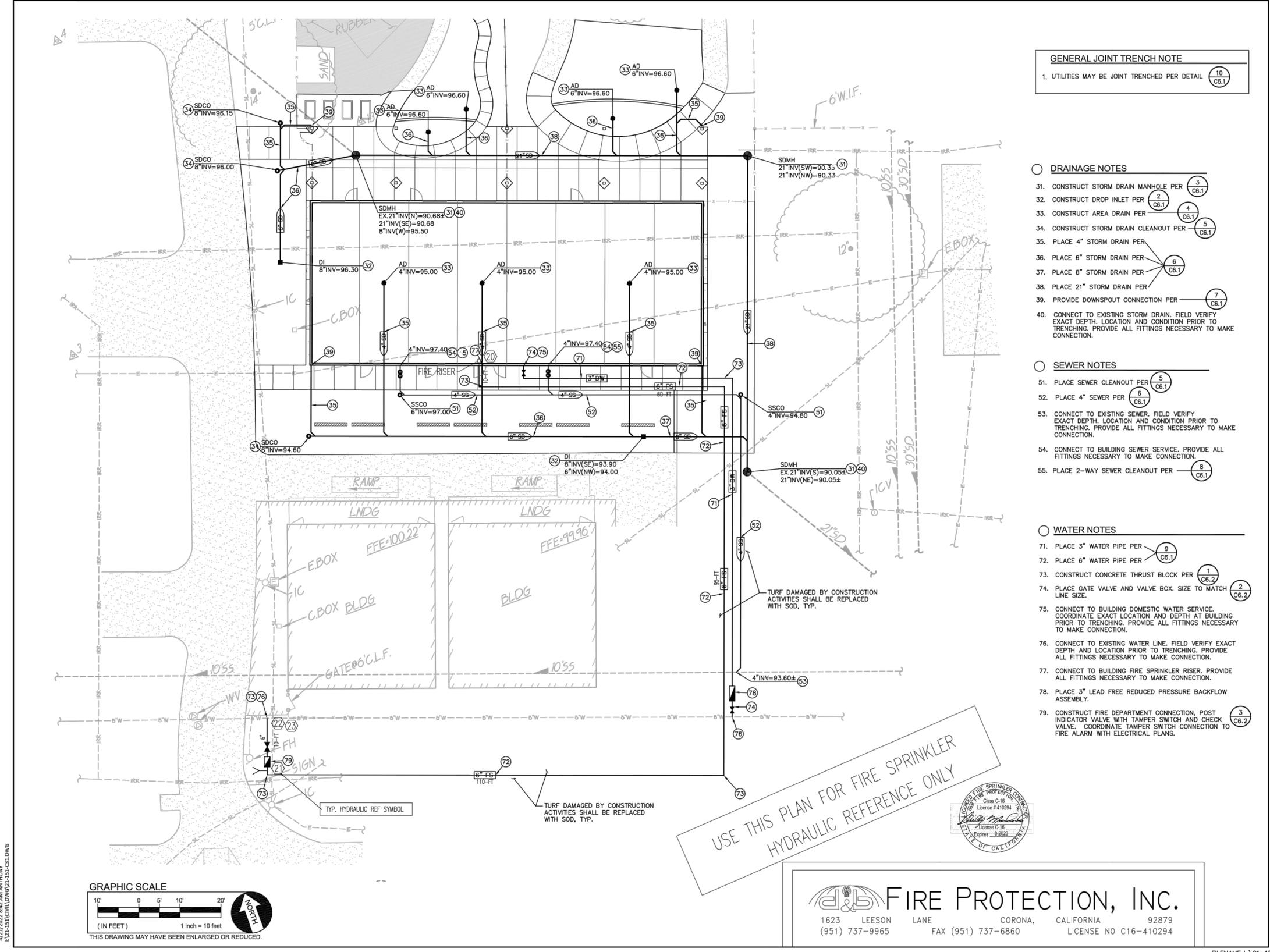
**FIRE PROTECTION, INC.**  
 1623 LEESON LANE CORONA, CALIFORNIA 92679  
 (951) 737-9965 FAX (951) 737-8860 LICENSE NO. C16-410294  
 TITLE: FIRE SPRINKLER LAYOUT/PIPING PLAN: CHILD DEV  
 SOLANO COMMUNITY COLLEGE CHILD DEV.  
 4000 SUISUN VALLEY ROAD  
 FAIRFIELD, CA, 94534

**JOB NO.:**

SCALE:	AS NOTED
DRAWN BY:	AR/PM
DATE:	04/2022
SHEET NO.:	FS-2

REFERENCE ONLY

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-120119 INC:  
REVIEWED FOR  
SS  FLS  ACS   
DATE: 08/23/2022



**GENERAL JOINT TRENCH NOTE**  
1. UTILITIES MAY BE JOINT TRENCHED PER DETAIL (10) C6.1

- DRAINAGE NOTES**
- 31. CONSTRUCT STORM DRAIN MANHOLE PER (3) C6.1
  - 32. CONSTRUCT DROP INLET PER (2) C6.1
  - 33. CONSTRUCT AREA DRAIN PER (4) C6.1
  - 34. CONSTRUCT STORM DRAIN CLEANOUT PER (5) C6.1
  - 35. PLACE 4" STORM DRAIN PER (6) C6.1
  - 36. PLACE 6" STORM DRAIN PER (6) C6.1
  - 37. PLACE 8" STORM DRAIN PER (6) C6.1
  - 38. PLACE 21" STORM DRAIN PER (7) C6.1
  - 39. PROVIDE DOWNSPOUT CONNECTION PER (7) C6.1
  - 40. CONNECT TO EXISTING STORM DRAIN. FIELD VERIFY EXACT DEPTH, LOCATION AND CONDITION PRIOR TO TRENCHING. PROVIDE ALL FITTINGS NECESSARY TO MAKE CONNECTION.

- SEWER NOTES**
- 51. PLACE SEWER CLEANOUT PER (5) C6.1
  - 52. PLACE 4" SEWER PER (6) C6.1
  - 53. CONNECT TO EXISTING SEWER. FIELD VERIFY EXACT DEPTH, LOCATION AND CONDITION PRIOR TO TRENCHING. PROVIDE ALL FITTINGS NECESSARY TO MAKE CONNECTION.
  - 54. CONNECT TO BUILDING SEWER SERVICE. PROVIDE ALL FITTINGS NECESSARY TO MAKE CONNECTION.
  - 55. PLACE 2-WAY SEWER CLEANOUT PER (8) C6.1

- WATER NOTES**
- 71. PLACE 3" WATER PIPE PER (9) C6.1
  - 72. PLACE 6" WATER PIPE PER (1) C6.1
  - 73. CONSTRUCT CONCRETE THRUST BLOCK PER (1) C6.2
  - 74. PLACE GATE VALVE AND VALVE BOX. SIZE TO MATCH LINE SIZE. (2) C6.2
  - 75. CONNECT TO BUILDING DOMESTIC WATER SERVICE. COORDINATE EXACT LOCATION AND DEPTH AT BUILDING PRIOR TO TRENCHING. PROVIDE ALL FITTINGS NECESSARY TO MAKE CONNECTION.
  - 76. CONNECT TO EXISTING WATER LINE. FIELD VERIFY EXACT DEPTH AND LOCATION PRIOR TO TRENCHING. PROVIDE ALL FITTINGS NECESSARY TO MAKE CONNECTION.
  - 77. CONNECT TO BUILDING FIRE SPRINKLER RISER. PROVIDE ALL FITTINGS NECESSARY TO MAKE CONNECTION.
  - 78. PLACE 3" LEAD FREE REDUCED PRESSURE BACKFLOW ASSEMBLY.
  - 79. CONSTRUCT FIRE DEPARTMENT CONNECTION, POST INDICATOR VALVE WITH TAMPER SWITCH AND CHECK VALVE. COORDINATE TAMPER SWITCH CONNECTION TO FIRE ALARM WITH ELECTRICAL PLANS. (3) C6.2

**HMR ARCHITECTS**  
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DSA #02-  
FILE #48-C1  
**EARLY LEARNING CENTER**  
SOLANO COMMUNITY COLLEGE  
4000 SUISUN VALLEY RD.  
FAIRFIELD, CA 94534  
**DESIGN DEVELOPMENT**

**REVISIONS**

NO.	DESCRIPTION	DATE

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**UTILITY PLAN**  
JANUARY 2022  
DRAWN BY: AT  
CHECKED BY: AR/PM  
DATE: 8/2022  
SHEET NO.: FS-3  
**C3.1**

FILENAME: I:\21-151\CIVIL\DWG\21-151-C31.DWG

**FIRE PROTECTION, INC.**  
1623 LEESON LANE CORONA, CALIFORNIA 92879  
(951) 737-9965 FAX (951) 737-6860 LICENSE NO C16-410294



**HYDRAULIC CALC. REFERENCE POINT**

- 4-WAY SWAY BRACE
- LONG/LAT. SWAY BRACE
- FIRE RISER
- TYP. HANGER
- END OF LINE HANGER/RESTRAINT

**HANGER LEGEND**

**UNDERGROUND FIRE MAIN**

- NEW UNDERGROUND PIPING
- EXISTING UNDERGROUND PIPING
- POST INDICATOR VALVE (PIV)
- KEY VALVE
- FIRE DEPARTMENT CONNECTION (FDC)
- FIRE HYDRANT

**AUTHORITY HAVING JURISDICTION**

DATE:	BY:	REVISIONS:



**AMS**  
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(951) 737-9965 FAX (951) 737-6860 LICENSE NO C16-410294  
TITLE: FIRE SPRINKLER REFERENCE SITE PLAN:  
SOLANO COMMUNITY COLLEGE CHILD DEV. CNTR  
4000 SUISUN VALLEY RD  
FAIRFIELD, CA, 94534

**JOB NO.:**

SCALE: AS NOTED  
DRAWN BY: AR/PM  
DATE: 8/2022  
SHEET NO.: FS-3

4/21/2023 8:42 AM ANTHONY  
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