COMMUNITY DAY SCHOOL SOUTH CAMPUS

INTERIM HOUSING

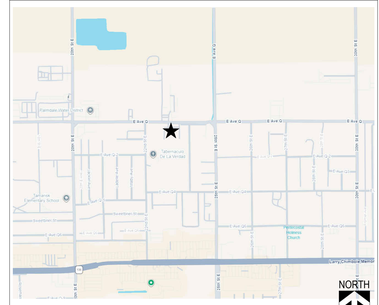
ANTELOPE VALLEY UNION HIGH SCHOOL DISTRICT

2270 E AVE Q, PALMDALE, CA 93550

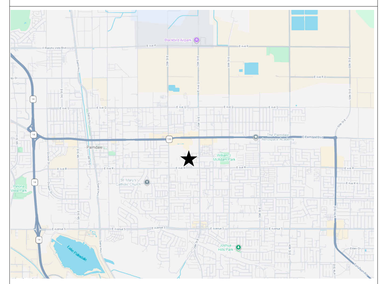
DSA SUBMITTAL: #03-126180

06/11/2026

AREA MAP



VICINITY MAP



tBP / Architecture

3990 Concours Street, Suite 201 - Ontario - California - 91764
http://www.tbparchitecture.com
ph: 949.673.0300

Architecture
Planning
Interiors

DIVISION OF THE STATE ARCHITECT
355 SOUTH GRAND AVENUE, SUITE 2100
LOS ANGELES, CA 90071
PH: (213) 897-3995
DSA Application #
DSA File #

agency

tBP architecture planning interiors

LICENSED ARCHITECT LIJING L. GUEST No. C-34187 RENEW: 4-30-2027 STATE OF CALIFORNIA

tBP/Architecture
3990 Concours Street, Suite 201
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ph: 949.673.0300 fx: 949.732.3895

architect

consultant

COMMUNITY DAY SCHOOL
SOUTH CAMPUS
INTERIM HOUSING

2270 E AVE Q, PALMDALE, CA 93550

ANTELOPE VALLEY UNION HIGH SCHOOL DISTRICT

tBP project number: 24009.00

file name:

drawn by: checked by:

date: Issue Date

rev:	date:	description:

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drawing title:

COVER SHEET

drawing no.:

T1

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ABBREVIATIONS

&	AND
@	AT
℄	CENTERLINE
#	NUMBER
AC	ASPHALTIC CONCRETE
AFF	ABOVE FINISH FLOOR
BLDG.	BUILDING
CBC	CALIFORNIA BUILDING CODE
CFC	CALIFORNIA FIRE CODE
CJ	CONTROL JOINT
CLR.	CLEAR
CLRM	CLASSROOM
DEMO	DEMOLITION
DF	DRINKING FOUNTAIN
DIA.	DIAMETER
DIM.	DIMENSION
DN	DOWN
DWG.	DRAWING
EA.	EACH
E.J.	EXPANSION JOINT
EQ.	EQUAL
(E)	EXISTING
FDC	FIRE DEPARTMENT CONNECTION
F.E.	FIRE EXTINGUISHER
F.E.C.F.	FIRE EXTINGUISHER CABINET
G.	FINISH GRADE
F.F.	FINISH FLOOR
GA	GAGE
GALV.	GALVANIZED
G.P.M.	GALLONS PER MINUTE
MAX.	MAXIMUM
M	METER
MIN.	MINIMUM
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.F.C.I.	OWNER FURNISHED CONTRACTOR INSTALLED
O.F.O.I.	OWNER FURNISHED OWNER INSTALLED
P.S.I.	POUNDS PER SQUARE INCH
SIM.	SIMILAR
TYP.	TYPICAL
W/	WITH

SHEET INDEX

GENERAL

T-1	COVER SHEET
T-2	TITLE SHEET, GENERAL NOTES, & CODE ANALYSIS
T-3	FIRE ACCESS SITE PLAN

(3 SHEETS)

CIVIL

C0.00	SITE IMPROVEMENT PLAN TITLE SHEET
C1.00	DEMOLITION PLAN
C2.00	GRADING PLAN PHASE I
C2.01	GRADING PLAN PHASE II
C3.00	GRADING DETAIL SHEET
C4.00	SITE WET UTILITY PLAN
C4.01	SITE WET UTILITY DETAIL SHEET

(7 SHEETS)

ARCHITECTURAL

AS-1	OVERALL SITE PLAN
AS-2	ENLARGED SITE PLAN
AS-3	RAMP PLAN AND SIGNAGE DETAILS
2.01	SITE DETAILS

(4 SHEETS)

ELECTRICAL

E0.1	ELECTRICAL GENERAL NOTES & SYMBOLS
E1.1	POWER SITE PLAN
E1.2	SIGNAL SITE PLAN
E2.1	FIRE ALARM FLOOR PLAN
E2.2	SIGNAL FLOOR PLAN
E3.1	FIRE ALARM LISTING, NOTES & DETAILS
E4.1	SINGLE LINE AND AV WIRING DIAGRAM

(7 SHEETS)

PC MODULAR BUILDING

PC CLASSROOM SHEETS (**DSA A#04-125510**)

A0.0N	TITLE SHEET
A1.1N	FLOOR PLAN
S1.0	FLOOR FRAMING DETAILS - PLYWOOD & CONCRETE
S2.1	ROOF TRUSS AND DETAILS

(4 SHEETS)

CLASSROOM FOUNDATION PLANS **(DSA A#04-122454)**

A0.0	TITLE SHEET
A0.8a	SAMPLE DSA 103 WOOD FOUNDATION OR BUILDING STOCKPILE PROJECTS
F1.1	WOOD PAD FOUNDATION PLAN-PLYWOOD FLOOR-24X40
F1.8	WOOD PAD FOUNDATION DETAILS
S0.0a	STRUCTURAL NOTES AND SPECIFICATIONS

(5 SHEETS)

RAMP DESIGN FOR CLASSROOM **(DSA A#04-122029)**

R-1	COVER SHEET
R-2	DSA 103 TEST & SPECIAL INSPECTIONS SAMPLE
R-3	CONSTRUCTION SPECIFICATIONS & NOTES
R-4	STANDARD RAMP & LANDING (ATTACHED HANDRAIL TO BUILDING)
R-9	RAMP & LANDING DETAILS

(5 SHEETS)

PC RESTROOM SHEET **(DSA A# 04-125511)**

A0.0N	TITLE SHEET
A1.D1	FLOOR PLAN OPTIONS "D", "D-1", & "D-1.1" ADULT - AGES 13 & ABOVE

(2 SHEETS)

RESTROOM FOUNDATION PLANS **(DSA A#04-122073)**

A0.0N	TITLE SHEET
A0.8A	SAMPLE DSA 103 FORM WOOD FOUNDATION OR BUILDING STOCKPILE PROJECT
F1.1	WOOD PAD FOUNDATION PLAN PLAY WOOD FLOOR
F1.8	WOOD PAD FOUNDATION DETAILS
S0.0a	STRUCTURAL NOTES AND SPECIFICATIONS

(5 SHEETS)

RAMP DESIGN FOR RESTROOM **(DSA A#04-122029)**

R-1	COVER SHEET
R-2	DSA 103 TEST & SPECIAL INSPECTIONS SAMPLE
R-3	CONSTRUCTION SPECIFICATIONS & NOTES
R-6	COMMON LANDING & RAMP PLAN
R-9	RAMP & LANDING DETAILS

(5 SHEETS)

TOTAL 47 SHEETS

STATEMENT OF GENERAL CONFORMANCE

Application No. 03-126180 File No. 19-H2

The drawings identified as follows:

☒ All drawing sheets included in this set not bearing my stamp and signature.

☐ Drawing sheets denoted in the sheet index as follows:

☐ Drawing sheets included under the following PC approval (s)

have been prepared by other design professionals or consultants who are licensed and authorized to prepare such drawings (plans) in this state. They have been examined by me for:

1) Design intent and appears to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me, and

2) Coordination with my drawings (plans) and specifications are acceptable for incorporation into the construction of this project.

Per Title 24, Part 1, Section 4-316 (b): This Statement of General Conformance shall not be construed as relieving me of my rights, duties, and responsibilities under Sections 17302 and 81138 of the Education Code and Sections 4-336, 4-341 and 4-344 of Title 24, Part 1

Signature — Date: 05/19/2026

HUNG CHENG	C34187	04/30/2027
Print Name	License Number	Expiration Date

PROJECT DESCRIPTION

THE PROJECT CONSISTS OF: INSTALLING (7) 24'X40' CLASSROOM PORTABLE BUILDINGS (DSA A#04-125510) WITH RAISED WOOD FOUNDATION (DSA A#04-122454), (1) 12'X40' RESTROOM PORTABLE BUILDING (DSA A# 04-125511) WITH RAISED WOOD FOUNDATION (DSA A#04-122073), AND INSTALLATION OF ASSOCIATED RAMPS (PC #04-122029). THE PROJECT ALSO INCLUDES SITE DEMOLITION AND GRADING AT PORTABLES.

PROJECT DIRECTORY

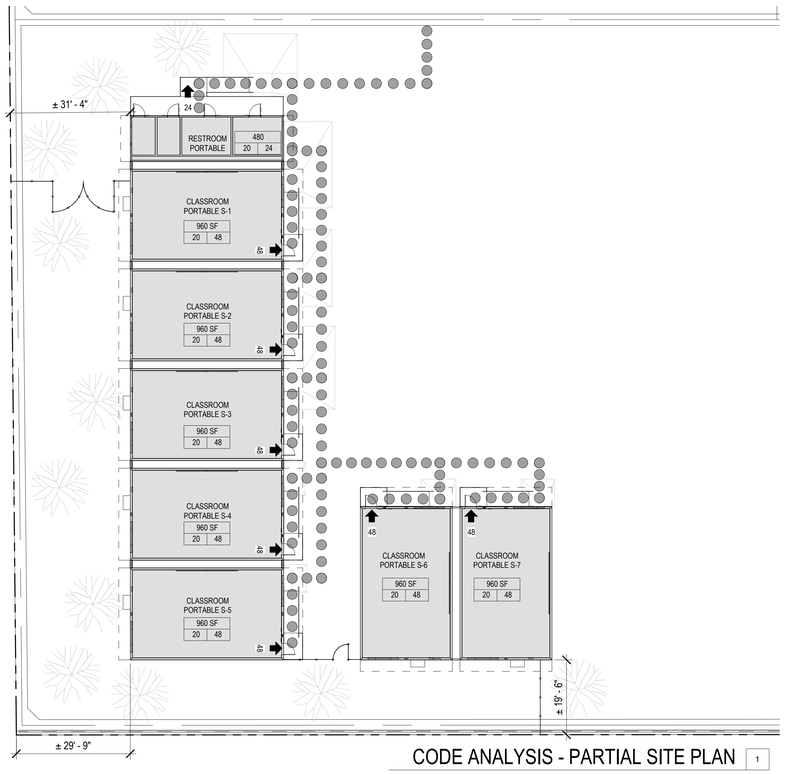
OWNER
ANTELOPE VALLEY UNION HIGH SCHOOL DISTRICT
176 HOLSTON DR.
LANCASTER, CA 93535
PHONE: 661.948.7655

MODULAR
NEXT MOD
6361 BOX SPRINGS BLVD.,
RIVERSIDE, CA 92507
PHONE: 909-740-3120

ARCHITECTURE
tBP/ ARCHITECTURE
3990 CONCOURS STREET, SUITE 201
ONTARIO, CALIFORNIA - 91764
PHONE: 949.673.0300

CIVIL
FPL AND ASSOCIATES, INC.
30 CORPORATE PARK, SUITE 401
IRVINE, CA 92606
PHONE: 949.252.1688

ELECTRICAL
YOWANTO ENGINEERING, INC.
2705 N. TOWNE AVENUE, SUITE C
POMONA, CA 91767
PHONE: 909.626.6291



CODE ANALYSIS - PARTIAL SITE PLAN 1

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

CODE ANALYSIS

SEVEN (7) PORTABLE CLASSROOMS S-1, S-2, S-3, S-4, S-5, S-6 & S-7 AND ONE (1) RESTROOM PORTABLE
OCCUPANCY GROUP: E
CONSTRUCTION TYPE: TYPE V-B, NON-SPRINKLERED
OCCUPANT LOAD FACTOR: 20
TOTAL SQUARE FOOTAGE: 7,200 S.F. (960 S.F. EACH FOR CLASSROOM, 480 S.F. EACH FOR RESTROOM)
TOTAL OCCUPANTS: 360

ALLOWABLE BUILDING HEIGHT PER TABLE 504.3
ALLOWABLE NUMBER OF STORIES PER TABLE 504.4

	ALLOWABLE	ACTUAL
NUMBER OF STORIES	1	1
BUILDING HEIGHT	40'-0"	12'-0"

ALLOWABLE BUILDING AREA PER TABLE 506.2

OCCUPANCY GROUP	E
BASIC ALLOWABLE AREA A(t) PER TABLE 506.2	9,500 S.F.
FRONTAGE INCREASE:	NOT USED
SPRINKLER INCREASE:	NOT USED
TOTAL ALLOWABLE AREA A(a)	9,500 S.F.
ACTUAL BUILDING AREA	960 S.F. FOR CLASSROOM (TOTAL 7) 480 S.F. FOR RESTROOM (TOTAL 1)
TOTAL BUILDING AREA	7,200 S.F.
RATIO CALCULATION	0.76 < 1, OK

FIRE AREA

TOTAL BUILDING CANOPY AREA	1,260 S.F.
TOTAL BUILDING AREA	7,200 S.F.
TOTAL FIRE AREA	8,460 S.F.

APPLICABLE CODES

APPLICABLE CODES AS OF JANUARY 1, 2026

2025 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR.
2025 CALIFORNIA BUILDING CODE (C.B.C.), PART 2, TITLE 24 CCR.
2025 CALIFORNIA ELECTRICAL CODE (C.E.C.), PART 3, TITLE 24 CCR.
2025 CALIFORNIA MECHANICAL CODE (C.M.C.), PART 4, TITLE 24 CCR.
2025 CALIFORNIA PLUMBING CODE (C.P.C.), PART 5, TITLE 24 CCR.
2025 CALIFORNIA ENERGY CODE (C.E.C.), PART 6, TITLE 24 CCR.
2025 CALIFORNIA FIRE CODE (C.F.C.), PART 9, TITLE 24 CCR.
2025 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR.
2025 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR.
2025 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR.

TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL (SFM) REGULATIONS

APPLICABLE STANDARDS

FOR A LIST OF APPLICABLE STANDARDS, INCLUDING CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS, REFER TO CBC CHAPTER 35 AND CFC CHAPTER 80.

EXCEPTION FROM PV AND BATTERY STORAGE SYSTEMS

EACH 24'X40' PORTABLE BUILDING IS SEISMICALLY SEPARATED STRUCTURE AND IS BEING ANALYZED AS AN INDEPENDENT BUILDING.

THE REQUIRED PRESCRIPTIVE PV SYTEM FOR A 24'X40' (960 S.F.) IN THE PROJECT CLIMATE ZONE (CZ 10) IS 1.6 Kw PER ENERGY CODE SECTION 140.10(a) M EXCEPTION 2: NO PV SYSTEM IS REQUIRED WHERE THE REQUIRED SYSTEM IS LESS THAN 4kw.

PER ENERGY CODE 2025 SECTION 140.10(b), EXCEPTION 3: NO BATTERY STORAGE SYSTEM IS REQUIRED IN BUILDINGS WITH LESS THAN 5,000 S.F.

GENERAL REQUIREMENTS

1. ALL WORK SHALL CONFORM TO 2025 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
2. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR CONSTRUCTION CHANGE DOCUMENTS APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTIONS 4-338, PART 1, TITLE 24, CCR.
3. A 'DSA CERTIFIED' PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT, SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
4. A DSA INSPECTOR WITH A **CLASS (3)** CERTIFICATION IS REQUIRED FOR THIS PROJECT.
5. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
6. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATIONS, REHABILITATION, OR RE-CONSTRUCTION IS TO BE DONE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITION SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISH WORK WILL NOT COMPLY WITH TITLE 24, CCR. A CONSTRUCTION CHANGE DOCUMENT (CCD) OR SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK (SECTION 4-317(C), PART 1, TITLE 24 CCR.).
7. SHOULD DSA FIND ANY WORK BEING PERFORMED IN A MANNER CONTRARY TO THE PROVISIONS OF THE CBC THAT WOULD COMPROMISE THE STRUCTURAL INTEGRITY OF THE BUILDING, THE DEPARTMENT OF GENERAL SERVICES, STATE OF CALIFORNIA, IS AUTHORIZED TO ISSUE A 'STOP WORK' ORDER PER SECTION 4-334.1 CALIFORNIA ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR).
8. A COPY OF TITLE 24 PART 1 THROUGH 5 AND 9 SHALL BE KEPT ON CONSTRUCTION SITE.
9. ALL CONSTRUCTION AND DEMOLITION SHALL BE IN ACCORDANCE WITH CHAPTER 33 OF THE CBC AND CFC,AND WRITTEN SAFETY PLAN. REFER TO DSA PUBLICATION BU 24-05 FOR FURTHER INFORMATION.
10. A WRITTEN SITE SAFETY PLAN IN COMPLIANCE WITH CFC 3303.1.1 MUST BE PREPARED AND AVAILABLE ON SITE PRIOR TO COMMENCEMENT OF ANY MOBILIZATION, DEMOLITION AND /OR CONSTRUCTION.
11. NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA.
12. SUBSTITUTIONS AFFECTING ITEMS REGULATED BY THE DIVISION OF THE STATE ARCHITECT (DSA) REQUIRE DSA APPROVAL AS AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD). DSA APPROVAL SHALL BE OBTAINED PRIOR TO FABRICATION AND/ OR INSTALLATION PER SECTION 4-333, PART 1, TITLE 24, CCR.
13. FORMS FINAL DSA 152-IPI AND FINAL DSA 292 (WELDING) SHALL BE ON THE JOBSITE PRIOR TO INSTALLATION OF THE MODULAR UNITS, INCLUDING THE SERIAL NUMBER FOR EACH UNIT.
14. THE SITE PROJECT INSPECTOR SHALL VERIFY THE FORM FINAL DSA 152-IPI AND FINAL DSA 292 ARE APPLICABLE TO EACH UNIT PRIOR TO INSTALLATION OF THE UNITS.
15. NOTIFY THE ARCHITECT AND THE DIVISION OF THE STATE ARCHITECT FIELD ENGINEER IF ANY DISCREPANCIES OCCUR.

DESIGN INFORMATION

SEISMIC DESIGN INFORMATION (ASCE 7-22)

NOTE: THIS PC IS DESIGNED PER CBC
- ROOF LIVE LOAD: 20 PSF
- FLOOR LIVE LOAD: 50 PSF

SITE COORDINATES:
- RISK CATEGORY: II
- SEISMIC IMPORTANCE FACTOR (Ie):
- MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS
  S_S = 2.33 S_1 = 0.93
- SITE CLASS: DEFAULT
- DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETER
  S_{DS} = 1.68 S_{D1} = 1.86

GEOTECHNICAL INFORMATION
ALLOWABLE SOIL BEARING PRESSURE = 1,000 PSF

WIND DESIGN:
- ULTIMATE DESIGN WIND SPEED: V = 95
- RISK CATEGORY: II
- WIND EXPOSURE CATEGORY: C
- INTERNAL PRESSURE COEFFICIENT: 0.00
- ENCLOSURE CLASSIFICATION:

FLOOD DESIGN DATA
- FLOOD ZONE: X
- 7FLOOD INSURANCE RATE MAP (FIRM) PANEL DESIGNATION: 06037C0700F
- EFFECTIVE DATE OF FIRM: 09.26.2008
- BASE FLOOR ELEVATION (BFE): N/A
- APPLICABLE COMMUNITY ORDINANCE SECTION: N/A

CLIMATE ZONE:
- CALIFORNIA CLIMATE ZONE: 14

FIRE HAZARD SEVERITY ZONE

1. PROJECT IS NOT WITHIN A FIRE HAZARD SEVERITY ZONE.

WILDLAND INTERFACE AREA (WIFA)

1. PROJECT IS LOCATED WITHIN A WILDLAND INTERFACE AREA.

REFERENCE SYMBOLS

DETAIL REFERENCE
3 / 7.11
NUMBER ABOVE - DETAIL NUMBER
NUMBER BELOW - SHEET NUMBER

DOOR IDENTIFICATION
001
REFER TO DOOR SCHEDULE

WHEELCHAIR IDENTIFICATION
30" x 48" CLR. FLOOR SPACE
34" MAX. A.F.F. COUNTERTOP
30"W X 27"H X 19"D CLR. KNEE SPACE
MIN.

MATERIAL SYMBOLS

AC PAVING
CONCRETE
TURF

CERTIFICATIONS

CERTIFICATION STATUS		
APPLICATION NUMBER	CERTIFICATION STATUS	DATE
03-105790	#1 CERTIFICATION	01.17.2005
03-117476	#1 CERTIFICATION	09.22.2019

CODE ANALYSIS LEGEND

OCCUPANT LOAD SYMBOL
960 SF / 20 48
OCCUPIED AREA
OCCUPANT LOAD SYMBOL
NUMBER OF OCCUPANTS
OCCUPANT LOAD FACTOR
E OCCUPANCY
ASSUMED PROPERTY LINE
PATH OF TRAVEL

MEANS OF EGRESS CALCULATION SYMBOL
EXIT DIRECTION
48 NUMBER OF OCCUPANTS EXITING

ACCEPTANCE TESTING

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 SYSTEMS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT.

ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER / ARCHITECT OR RECORD OR THE OWNER'S AGENT.

THE ACCEPTANCE TESTING PROCEDURES MUST BE REPLACED, AND DEFICIENCIES MUST BE CORRECT BY THE CONTRACTOR UNTIL CONSTRUCTION /INSTALLATION OF SPECIFIED SYSTEMS CONFORM AND PASS REQUIRED ACCEPTANCE CRITERIA.

PROJECT INSPECTOR WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

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

DIVISION OF THE STATE ARCHITECT
355 SOUTH GRAND AVENUE, SUITE 2100
LOS ANGELES, CA 90071
PH: (213) 897-3995
DSA Application #
DSA File #

agency

tBP architecture planning interiors

LICENSED ARCHITECT HUNG L. CHENG No. C-34187 REN: 4-30-2027 STATE OF CALIFORNIA

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3990 Concours Street, Suite 201
Ontario, CA 91764
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architect

consultant

COMMUNITY DAY SCHOOL
SOUTH CAMPUS
INTERIM HOUSING

2270 E AVE Q, PALMDALE, CA 93550

ANTELOPE VALLEY UNION HIGH SCHOOL DISTRICT

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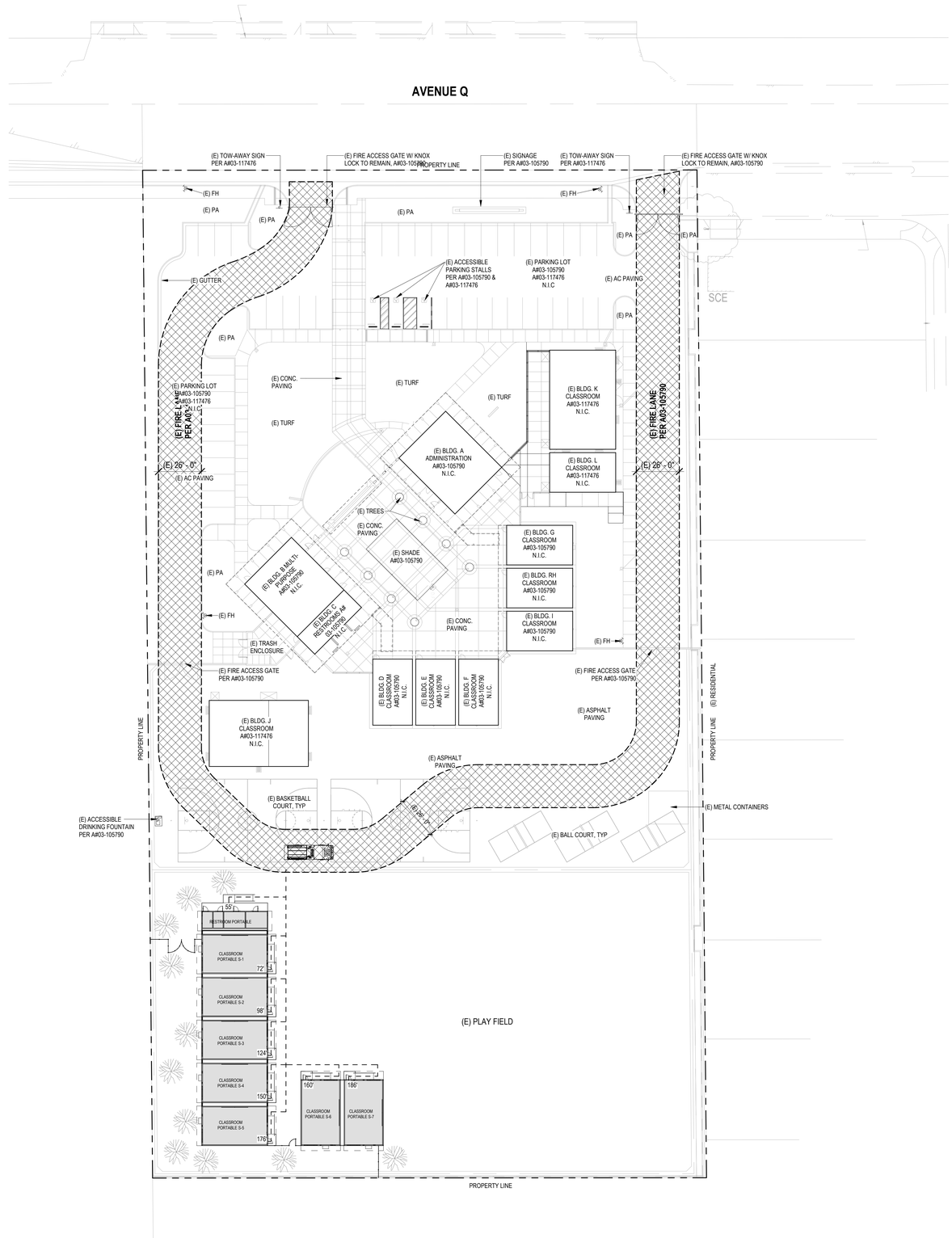
rev:	date:	description:

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drawing title:
SHEET INDEX, GENERAL NOTES, & CODE ANALYSIS

drawing no.:
T-2

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FIRE ACCESS SITE PLAN 1

SCALE: 1" = 30'-0"

0' 10' 20' 40' 80' NORTH

FIRE FLOW TEST

PHAIR ENGINEERING
6329 Bella Kath Terrace
Palmdale, CA 93551
(661) 722-4570, Cell (661) 916-5361

March 24, 2016

Antelope Valley Joint Union H.S.D.
Attn: Mat Havens
44811 N. Sierra Hwy
Lancaster, CA 93534

Subject: Flow tests at Phoenix CDC Schools, 2270 E. Ave Q and 228 E. Ave H-8

Dear Mr. Havens:

This letter is provided to document the flow tests and investigations conducted in the afternoon of March 23, 2016, at the Phoenix CDC South and North campuses. Although the results shown are accurate for the date and time given, they may not accurately reflect higher or lower readings which may vary due to seasonal conditions. Outlined below are the method, location, and results of said tests. Refer to attached map which represents both campuses.

2270 East Avenue Q: Fire Hydrant A was flowed and the results were as follows: 77 PSI static, 46 PSI residual, and a pitot reading of 16 PSI. This resulted in 1,510 GPM observed from the 4 -- inch outlet. The upstream pressure was tested at Fire Hydrant B. This calculates to 2,100 GPM at 20 PSI.

228 East Avenue H-8: Fire Hydrant A was flowed and the results were as follows: 94 PSI static, 49 PSI residual, and a pitot reading of 18 PSI. This resulted in 1,610 GPM observed from the 4 -- inch outlet. The upstream pressure was tested at Fire Hydrant B. This calculates to 2,100 GPM at 20 PSI.

I presume that the above information is of assistance to you. If you have any further questions, please do not hesitate to contact me.

Sincerely,

Gordon L. Phair
Register Engineer No. C53825

NOTE:
1. CONTRACTOR OPERATIONS SHALL NOT BLOCK, HINDER, IMPEDE, OR OTHERWISE INHIBIT THE USE OF REQUIRED EXITS AT ANY TIME. CONTRACTOR SHALL MAINTAIN UNOBSTRUCTED ACCESS TO FIRE EXTINGUISHERS, FIRE HYDRANTS, TEMPORARY FIRE PROTECTION FACILITIES, STAIRWAYS, AND OTHER ACCESS ROUTES FOR FIRE-FIGHTING EQUIPMENT AND OR PERSONNEL.

LEGEND AND NOTES

NOTES:

1. CONTRACTOR OPERATIONS SHALL NOT BLOCK, HINDER, IMPEDE OR OTHERWISE INHIBIT THE USE OF REQUIRED EXITS AT ANY TIME.
2. CONTRACTOR SHALL MAINTAIN UNOBSTRUCTED ACCESS TO FIRE EXTINGUISHERS, FIRE HYDRANTS, TEMPORARY FIRE PROTECTION FACILITIES, STAIRWAYS, AND OTHER ACCESS ROUTES FOR FIRE-FIGHTING EQUIPMENT AND PERSONNEL.

- EXISTING BUILDINGS, N.I.C.
- PORTABLE CLASSROOMS & RESTROOM
- (E) FIRE DEPARTMENT VEHICULAR ACCESS LANE (13'-0" MIN. UNOBSTRUCTED VERTICAL CLEARANCE) A # 03-105790
- 150' MAX. REACH - FIRE HOSE PULL 5'-0" MIN. CLEAR WIDTH
- PROPERTY LINE
- (E) FIRE HYDRANT

BUILDING DESCRIPTION

BUILDING AREA:	7,200 S.F.
CONSTRUCTION TYPE:	TYPE V-B, NON-SPRINKLERED
BUILDING HEIGHT:	12'-0"
NUMBER OF STORIES:	1 STORY
BUILDING USE:	CLASSROOM & RESTROOM
OCCUPANCY:	E
OCCUPANT LOAD:	360

SCOPE:

THE PROJECT CONSISTS OF: INSTALLING (7) 24'X40' CLASSROOM PORTABLE BUILDINGS (DSA A# 04-125510) WITH RAISED WOOD FOUNDATION (DSA A#04-122454), (1) 12'X40' RESTROOM PORTABLE BUILDING (DSA A# 04-125511) WITH RAISED WOOD FOUNDATION (DSA A#04-122073), AND INSTALLATION OF ASSOCIATED RAMPS (PC #04-122029). THE PROJECT ALSO INCLUDES SITE DEMOLITION AND GRADING AT PORTABLES.

FIRE FLOW ANALYSIS

2025 CALIFORNIA FIRE CODE TABLE B105.1 - MIN. REQUIRED FIRE FLOW AND DURATION FOR BUILDINGS

	FIRE AREA TYPE V-B	REQUIRED FIRE FLOW @ 20 PSI	FIRE FLOW @ 20 PSI (GPM)	FLOW DURATION (HOURS)
PORTABLE BUILDINGS	7,200 S.F.	1,750 G.P.M.	2,100 G.P.M.	2 HOURS

DSA **810**

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

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

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

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

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

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

PROJECT INFORMATION	
School District/Owner:	Antelope Valley Union High School District
Project Name/School:	Community Day School
Project Address:	2270 E Ave Q, Palmdale, CA 93550

FIRE & LIFE SAFETY INFORMATION				
1.	Has a fire hydrant flow test been performed within the past 12 months? *(If yes, provide a copy of the test data.)*	Yes ☑		No ☐
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes ☑		No ☐
3.	Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? *(If yes, indicate FHSZ classification below.)*	Yes ☐		No ☑
	Refer to the following website for FHSZ locations: Fire Hazard Severity Zones in State Responsibility Area	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

CONDITION MEANS AND METHODS RESOLUTION		ALTERNATE ACCEPTED			
		Yes	No	N/A	N/R
4.	Emergency vehicle access roadways do not meet CFC requirements.				
4a.	**Acceptable Alternate:** Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property.				
5.	**Fire Hydrants:** Number and spacing does not meet CFC requirements.				
5a.	**Acceptable Alternate:** Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property.				
6.	**Fire Hydrants:** Water flow and pressure are less than CFC minimum.				
6a.	**Acceptable Alternate:** The available flow and pressure is acceptable for providing fire suppression and protection of life and property.				
7.	Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements.				
7a.	**Acceptable Alternate:** The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.				

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, as indicated by one or more of the conditions indicated at items 4a, 5a, 6a or 7a, for providing fire and life safety protection of life and property.

Accepted by: _____ Title: _____

Signature: _____ Date: _____

LOCAL FIRE AUTHORITY (LFA) INFORMATION	
LFA Agency Name:	
LFA Review Official:	
Title:	Work Phone:
Work Email:	

LFA Reviewer's Signature: _____ Date: _____

DIVISION OF THE STATE ARCHITECT
355 SOUTH GRAND AVENUE, SUITE 2100
LOS ANGELES, CA 90071
PH: (213) 897-3995
DSA Application #
DSA File #

agency

tBP architecture planning interiors

LICENSED ARCHITECT LUNG L. GUEGO No. C-34187 EXP. 4-30-2014 STATE OF CALIFORNIA

tBP/Architecture
3990 Concours Street, Suite 201
Ontario, CA 91764
ph: 949.673.0300 fx: 949.732.3895

architect

consultant

COMMUNITY DAY SCHOOL SOUTH CAMPUS INTERIM HOUSING

2270 E AVE Q, PALMDALE, CA 93550

ANITELOPE VALLEY UNION HIGH SCHOOL DISTRICT

tBP project number: 24009.00

file name:

drawn by: checked by:

date: Issue Date

rev:	date:	description:

THIS DRAWING AND THE DESIGNS, DEPICTIONS, IDEAS AND OTHER INFORMATION CONTAINED HEREIN CONSTITUTE UNPUBLISHED WORK OF tBP/ARCHITECTURE AND SHALL REMAIN PROPERTY OF tBP/ARCHITECTURE IN PERPETUITY. NO PART THEREOF SHALL BE REPRODUCED, DISCLOSED, DISTRIBUTED, SOLD, PUBLISHED OR OTHERWISE USED IN ANY WAY WITHOUT THE ADVANCED EXPRESS WRITTEN CONSENT OF tBP/ARCHITECTURE.

drawing title:

FIRE ACCESS SITE PLAN

drawing no.:

T-3

C:\Users\ywe\Documents\24009_AVHUSD-CommunityDaySchool IH_Central_ywe1CT58.rvt

SITE IMPROVEMENT PLANS
FOR
COMMUNITY DAY SCHOOL
SOUTH CAMPUS
INTERIM HOUSING

GENERAL NOTES FOR GRADING

1. ALL WORK SHALL CONFORM WITH THE "GREENBOOK" STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC), 2024 EDITION AND THE LATEST REVISIONS THERETO, THE WORK AREA TRAFFIC CONTROL HANDBOOK (W.A.T.C.H. MANUAL), A.D.A, TITLE 24 REQUIREMENTS, AND 2025 C.B.C. UNLESS SPECIFIED OTHERWISE IN THE CONTRACT SPECIFICATIONS.
2. A COPY OF THE DIVISION OF STATE ARCHITECT APPROVED GRADING PLANS MUST BE IN THE POSSESSION OF A RESPONSIBLE PERSON AND AVAILABLE AT THE JOB SITE AT ALL TIMES.
3. THROUGHOUT ALL PHASES OF CONSTRUCTION, INCLUDING SUSPENSION OF WORK, UNTIL FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL KEEP THE WORK SITE CLEAN AND FREE FROM RUBBISH AND DEBRIS. THE CONTRACTOR SHALL ALSO ABATE DUST NUISANCE BY CLEANING, SWEEPING AND SPRINKLING WITH WATER AND USING DUST FENCES OR OTHER METHODS AS DIRECTED BY THE CONSTRUCTION MANAGER OR FIELD INSPECTOR THROUGHOUT THE CONSTRUCTION OPERATION AND SHALL INCORPORATE IN BASE BID.
4. THE CONTRACTOR SHALL KEEP A STRICT RECORD OF ALL CHANGES THAT OCCUR DURING CONSTRUCTION PRACTICES AND SUBMIT THIS RECORD TO THE SCHOOL DISTRICT & DSA CERTIFIED AS "RECORD DRAWING" PLANS.
5. ALL DAMAGE CAUSED TO PUBLIC STREETS, INCLUDING HAUL ROUTES, ALLEYS, SIDEWALKS, CURBS OR STREET FURNISHINGS, OR TO PRIVATE PROPERTY SHALL BE REPAIRED AT THE SOLE EXPENSE OF THE CONTRACTOR TO THE ENGINEER'S SATISFACTION.
6. THE CONTRACTOR SHALL REMOVE AND REPLACE ANY BROKEN OR DAMAGED SIDEWALK, CURB, GUTTER OR ASPHALT PAVING AND TURF (PATCH, REPAIR OR OVERLAY) CAUSED BY THEIR WORK ON THIS PROJECT AT THE DIRECTION OF THE OWNER.
7. ALL UNDERGROUND SEWER, STORM DRAIN, AND WATER PIPELINES, ELECTRIC POWER, TELEPHONE OR CABLE TV CONDUITS AND CABLE AND GAS PIPELINES SHALL BE INSTALLED PRIOR TO CONSTRUCTION OF CURBS, GUTTERS, SIDEWALKS AND PAVEMENT.
8. WHERE JOINING THE EXISTING PAVEMENT, SAWCUT TO SOUND PAVEMENT AND OVERLAY AS REQUIRED TO PROVIDE PROPER GRADE AND 2% MAX. CROSS-SLOPE OR 5% MAX. RUNNING SLOPE AS NOTED ON PLANS. ANY UNSOUND PAVEMENT SHALL BE REPLACED AS REQUIRED BY THE ENGINEER.
9. AT LEAST TWO (2) WORKING DAYS BEFORE COMMENCING EXCAVATION, THE CONTRACTOR SHALL POTHOLE AND EXPOSE THE EXISTING UTILITIES AT ALL CROSSINGS AND AT THE POINT OF TIE-IN; THEN CONTACT THE ENGINEER TO VERIFY THE ELEVATION OF THE EXISTING FACILITIES.
10. SURVEY MONUMENTS SHALL BE PRESERVED AND REFERENCED BEFORE CONSTRUCTION AND RE-PLACED AFTER CONSTRUCTION PURSUANT TO SECTION 2-9 OF THE S.S.P.W.C. (GREENBOOK).
11. ALL UNSUITABLE MATERIAL SHALL BE REMOVED, AS DIRECTED BY THE SOILS ENGINEER, FROM ALL AREAS ALL UNSUITABLE MATERIAL SHALL BE REMOVED, AS DIRECTED BY THE SOILS ENGINEER, FROM ALL AREAS TO RECEIVE COMPACTED FILL OR DRAINAGE STRUCTURES. TO RECEIVE COMPACTED FILL OR DRAINAGE STRUCTURES.
12. ALL DELETERIOUS MATERIAL (I.E. LUMBER, LOGS, BRUSH, RUBBISH, ETC.) SHALL BE REMOVED FROM ALL AREAS TO RECEIVE COMPACTED FILL AND HAULED TO DUMP-SITE APPROVED BY THE ENGINEER.
13. ALL AREAS TO RECEIVE COMPACTED FILL SHALL BE INSPECTED AND APPROVED BY THE SOILS ENGINEER AFTER REMOVAL OF UNSUITABLE MATERIAL AND EXCAVATION OF KEYWAYS AND BENCHES, AND PRIOR TO PLACEMENT OF SUBSURFACE DRAINAGE SYSTEMS OR ANY FILLS.
14. ALL SOILS OR ROCK MATERIALS DEEMED UNSUITABLE FOR PLACEMENT IN COMPACTED FILL SHALL BE REMOVED FROM THE SITE. ANY IMPORTED MATERIAL SHALL BE APPROVED BY THE SOILS ENGINEER PRIOR TO USE IN COMPACTED FILL. BLOCKY MATERIAL SHALL BE BROKEN INTO SUITABLE PARTICLE SIZES, BEFORE BEING USED AS FILL IN CONFORMANCE WITH THE CITY STANDARDS.
15. ALL TREE ROOTS, ABANDONED IRRIGATION LINES, UTILITY SERVICES AND SIMILAR MATERIALS ENCOUNTERED DURING EXCAVATION SHALL BE REMOVED FROM THE SITE AND VOIDS CREATED THEREBY SHALL BE PROPERLY FILLED AND COMPACTED AS DIRECTED BY THE SOILS ENGINEER.
16. ALL EXCAVATED BACK SLOPES AND KEYS FOR BUTTRESS FILLS MUST BE EXAMINED BY THE ENGINEERING GEOLOGIST AND SOILS ENGINEER TO INSURE ALL POTENTIAL PLANES OF FAILURE HAVE BEEN EXPOSED IN THE EXCAVATION AND WILL BE ADEQUATELY SUPPORTED BY THE PROPOSED BUTTRESS FILLS.
17. THE SOILS ENGINEER SHALL SUBMIT RECOMMENDATIONS FOR CORRECTIVE WORK TO INSURE SLOPE STABILITY WHERE UNSTABLE MATERIAL IS EXPOSED AT THE TOP OF CUTS.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING STORM DAMAGE PREVENTION MEASURES OR EROSION CONTROL DEVICES AND/OR TO PERFORM CERTAIN GRADING TO PREVENT SOIL OR EXCESS RUNOFF FROM FLOWING INTO PUBLIC STREETS OR ADJACENT PROPERTIES. IN THE EVENT OF SUCH AN OCCURRENCE, CLEANUP SHALL COMMENCE IMMEDIATELY. SHOULD CITY FORCES OR THE CITY CONTRACTOR PERFORM ANY CLEANUP RESULTING FROM THIS DEVELOPMENT, THE CONTRACTOR SHALL PAY THE COST INCURRED WITHIN TEN (10) WORKING DAYS UPON RECEIPT OF BILLING.
19. EITHER WATER OR DUST PALLIATIVE, OR BOTH, MUST BE APPLIED FOR THE ALLEVIATION OR PREVENTION OF EXCESSIVE DUST RESULTING FROM THE LOADING OR TRANSPORTATION OF EARTH FROM OR TO THE PROJECT SITE OR PRIVATE AND PUBLIC ROADWAYS.
20. NO OVERSIZE OR OVERWEIGHT LOADS ARE PERMITTED WITHOUT A SEPARATE MOVING PERMIT.
21. ALL EQUIPMENT USED TO HAUL EXCAVATION OR FILL MATERIAL FROM OR TO THE SITE SHALL FOLLOW A DESIGNATED ROUTE OR ROUTES IN GOING TO AND FROM THE SITE. THE CONTRACTOR SHALL BE ENTITLED TO THE DESIGNATION OF A ROUTE PROVIDING ACCESS TO A SPECIFIED PLACE OTHER THAN THE SITE, AFTER SHOWING TO THE SATISFACTION OF THE CITY BUILDING OFFICIAL THAT SUCH SPECIFIED PLACE IS A PLACE WHERE EXCAVATION MATERIAL MAY BE REASONABLY DEPOSITED OR FILL MATERIAL MAY BE OBTAINED. A SEPARATE ENCROACHMENT PERMIT IS REQUIRED WHEN IT IS NECESSARY TO FLAG TRAFFIC OR INSTALL ANY TRAFFIC CONTROL DEVICES ON CITY RIGHT-OF-WAY.
22. ANY EARTH ROCK, GRAVEL, SAND, STONE OR OTHER EXCAVATED MATERIAL DEPOSITED OR CAUSED TO ROLL, FLOW OR WASH UPON ANY PUBLIC PLACE OR PRIVATE PROPERTY SHALL BE REMOVED FROM SUCH PUBLIC PLACE OR PRIVATE PROPERTY BY THE END OF THE WORKDAY BY THE CONTRACTOR RESPONSIBLE FOR THE DEPOSITION. IF AN ADVERSE CONDITION IS CAUSED BY DEPOSIT, THE CONDITION SHALL BE CORRECTED IMMEDIATELY.
23. EVERY EFFORT SHOULD BE MADE TO ELIMINATE THE DISCHARGE OF NON-STORMWATER FROM THE PROJECT SITE AT ALL TIMES.
24. ALL TRUCKS HAULING DIRT, SAND, OIL, OR OTHER LOOSE MATERIALS ARE TO BE COVERED OR SHOULD MAINTAIN AT LEAST TWO FEET OF FREEBOARD IN ACCORDANCE WITH THE REQUIREMENTS OF CVC SECTION 23114.
25. ADJUST UTILITY BOXES TO BE FLUSH WITH ULTIMATE FINISH SURFACE IN PAVING SCOPE OF WORK AREAS.
26. CONTRACTOR SHALL HIRE A LICENSED SURVEYOR TO STAKE ALL CATCH BASINS, STORM DRAIN PIPE, SAW-CUT LINES, BUILDING PADS, FINISH FLOORS, SWALES AND GRADE BREAKS. TWO STAKES SHALL BE PROVIDED FOR ALL CATCH BASINS.
27. IN ORDER TO MITIGATE THE IMPACTS ON CULTURAL RESOURCES OR LANDSCAPING, IF CULTURAL MATERIAL SUGGESTIVE OF PREHISTORIC OR HISTORIC ORIGIN IS ENCOUNTERED, WORK IN THE VICINITY OF THE FIND SHALL BE STOPPED, AND THE OWNER SHALL BE NOTIFIED. GRADING, CONSTRUCTION OR LANDSCAPING SHALL NOT RESUME UNTIL THE FIND IS EVALUATED AND IT IS DETERMINED WHETHER THE MATERIAL IS ARCHAEOLOGICALLY SIGNIFICANT AND ADDITIONAL MITIGATION IS REQUIRED.
28. NO PERSON SHALL, WHEN HAULING ANY EARTH, SAND, GRAVEL, ROCK, STONE OR OTHER EXCAVATED MATERIAL OR DEBRIS OVER ANY PUBLIC STREET, ALLEY OR OTHER PUBLIC PLACE, ALLOW SUCH MATERIAL TO BLOW OR SPILL OVER UPON SUCH STREET, ALLEY OR PUBLIC PLACE OR ADJACENT PRIVATE PROPERTY OR ANY WATER BODIES, CREEKS OR STREAMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEANUP AND REMOVAL OF ANY CONSTRUCTION OR SOILS MATERIALS DEPOSITED ON THE PUBLIC RIGHT-OF-WAY, PUBLIC WATERS OR ADJACENT PRIVATE PROPERTY.

GENERAL NOTES TO CONTRACTOR

1. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 7-10, PUBLIC CONVENIENCE AND SAFETY, OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK), IN REGARDS TO SAFETY ORDERS.
2. SCOPE OF WORK:

   A. PROVIDE ALL LABOR, SUPERVISION, MATERIALS, EQUIPMENT & FACILITIES NECESSARY TO FURNISH, FABRICATE, DELIVER, STORE AND INSTALL ALL WORK NOTED ON THE DRAWINGS.

   B. THE CONTRACTOR SHALL FURNISH & INSTALL ALL WORK NECESSARY TO MAKE A COMPLETE SYSTEM WHETHER OR NOT SUCH DETAILS ARE MENTIONED IN THESE SPECIFICATIONS OR SHOWN ON THE PLANS, BUT WHICH ARE OBVIOUSLY NECESSARY TO MAKE A COMPLETE SYSTEM, EXCEPTING ONLY THOSE PORTIONS THAT ARE SPECIFICALLY MENTIONED HEREIN OR PLAINLY MARKED ON THE ACCOMPANYING DRAWINGS AS BEING INSTALLED UNDER ANOTHER SECTION OF THE SPECIFICATION.
3. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY AVAILABLE SPACES FOR INSTALLING THE WORK.
4. COORDINATION: THE DRAWINGS ARE DIAGRAMMATIC & INTENDED TO SHOW SCOPE. CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES TO PROVIDE BEST ARRANGEMENT OF ALL DUCT, PIPES, CONDUIT, ETC.
5. WORKMANSHIP: THE WORK SHALL BE ACCOMPLISHED BY THE USE OF COMPETENT MECHANICS SKILLED IN THEIR TRADE. THE ENGINEER AND ARCHITECT SHALL HAVE THE RIGHT TO INTERPRET COMPLIANCE OF WORKMANSHIP WITH THE CONTRACT DOCUMENTS.
6. MATERIALS: ALL MATERIALS, APPLIANCES & EQUIPMENT SHALL BE NEW & THE BEST OF THEIR RESPECTIVE KIND. FREE FROM ALL DEFECTS AND OF THE MAKE, BRAND, AND QUANTITY SPECIFIED.
7. CLEAN-UP: UPON COMPLETION OF THE WORK UNDER THIS SECTION THE CONTRACTOR SHALL REMOVE ALL SURPLUS MATERIALS. EQUIPMENT & DEBRIS INCIDENTAL TO THIS WORK & LEAVE THE PREMISES CLEAN AND ORDERLY TO THE SATISFACTION OF THE ARCHITECT / OWNER.

STORM WATER POLLUTION CONTROL NOTES:

1. APPROPRIATE BMP'S FOR CONSTRUCTION-RELATED MATERIALS, WASTE, SPILLS OR RESIDUES SHALL BE IMPLEMENTED AND RETAINED ON SITE TO MINIMIZE TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES, OR ADJOINING PROPERTY BY WIND OR RUNOFF.
2. SEDIMENT FROM AREAS DISTURBED BY CONSTRUCTION SHALL BE RETAINED ON SITE USING STRUCTURAL CONTROLS TO THE MAXIMUM EXTENT PRACTICABLE.
3. STOCKPILES OF SOIL SHALL BE PROPERLY CONTAINED TO MINIMIZE SEDIMENT TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES OR ADJACENT PROPERTIES VIA RUNOFF, VEHICLE TACKING, OR WIND.
4. ALL REMOVABLE EROSION PROTECTIVE DEVICES SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE 5-DAY RAIN PROBABILITY FORECAST EXCEEDS 50%.
5. RUNOFF FROM EQUIPMENT AND VEHICLE WASHING SHALL BE CONTAINED AT CONSTRUCTION SITES UNLESS TREATED TO REDUCE OR REMOVE SEDIMENT AND OTHER POLLUTANTS.
6. ALL CONSTRUCTION CONTRACTOR AND SUBCONTRACTOR PERSONNEL ARE TO BE MADE AWARE OF THE REQUIRED BEST MANAGEMENT PRACTICES AND GOOD HOUSEKEEPING MEASURES FOR THE PROJECT SITE AND ANY ASSOCIATED CONSTRUCTION STAGING AREAS.
7. AT THE END OF EACH DAY OF CONSTRUCTION ACTIVITY ALL CONSTRUCTION DEBRIS AND WASTE MATERIALS SHALL BE COLLECTED AND PROPERLY DISPOSED IN TRASH OR RECYCLE BINS.
8. CONSTRUCTION SITES SHALL BE MAINTAINED IN SUCH A CONDITION THAT AN ANTICIPATED STORM DOES NOT CARRY WASTES OR POLLUTANTS OFF THE SITE. DISCHARGES OF MATERIAL OTHER THAN STORMWATER ONLY WHEN NECESSARY FOR PERFORMANCE AND COMPLETION OF CONSTRUCTION PRACTICES AND WHERE THEY DO NOT: CAUSE OR CONTRIBUTE TO A VIOLATION OF ANY WATER QUALITY STANDARD; CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR NUISANCE; OR CONTAIN A HAZARDOUS SUBSTANCE IN A QUANTITY REPORTABLE UNDER FEDERAL REGULATIONS 40 CFR PARTS 117 AND 302.
9. POTENTIAL POLLUTANTS INCLUDE BUT ARE NOT LIMITED TO: SOLID OR LIQUID CHEMICAL SPILLS; WASTES FROM PAINTS, STAINS, SEALANTS, GLUES, LIMES, PESTICIDES, HERBICIDES, WOOD PRESERVATIVES AND SOLVENTS; ASBESTOS FIBERS, PAINT FLAKES OR STUCCO FRAGMENTS; FUELS, OILS, LUBRICANTS, AND HYDRAULIC, RADIATOR OR BATTERY FLUIDS; FERTILIZERS, VEHICLE/EQUIPMENT WASH WATER AND CONCRETE WASH WATER; CONCRETE, DETERGENT OR FLOATABLE WASTES; WASTES FROM ANY ENGINE/EQUIPMENT STEAM CLEANING OR CHEMICAL DEGREASING AND SUPERCHLORINATED POTABLE WATER LINE FLUSHING. DURING CONSTRUCTION, PERMITTEE SHALL DISPOSE OF SUCH MATERIALS IN A WASHOUT BIN OR SPECIFIED AND CONTROLLED TEMPORARY AREA ON-SITE PHYSICALLY SEPARATED FROM POTENTIAL STORMWATER RUNOFF, WITH ULTIMATE DISPOSAL IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS.
10. DEWATERING OF CONTAMINATED GROUNDWATER, OR DISCHARGING CONTAMINATED SOILS VIA SURFACE EROSION IS PROHIBITED. DEWATERING OF NON-CONTAMINATED GROUNDWATER REQUIRES A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT FROM THE RESPECTIVE STATE REGIONAL WATER QUALITY CONTROL BOARD.
11. GRADED AREAS ON THE PERMITTED AREA PERIMETER MUST DRAIN AWAY FROM THE FACE OF SLOPES AT THE CONCLUSION OF EACH WORKING DAY. DRAINAGE IS TO BE DIRECTED TOWARD DESILTING FACILITIES.
12. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATER CREATES A HAZARDOUS CONDITION.
13. THE CONTRACTOR SHALL INSPECT THE EROSION CONTROL WORK AND INSURE THAT THE WORK IS IN ACCORDANCE WITH THE APPROVED PLANS.
14. THE GENERAL CONTRACTOR SHALL NOTIFY ALL SUBCONTRACTORS & MATERIAL SUPPLIERS: THAT DUMPING OF CHEMICALS INTO THE STORM DRAIN SYSTEM OR THE WATERSHED IS PROHIBITED.
15. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. NECESSARY MATERIALS SHALL BE AVAILABLE ON SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.

THE FOLLOWING BMPs AS OUTLINED IN, BUT NOT LIMITED TO, THE STORMWATER BEST MANAGEMENT PRACTICE HANDBOOK, CONSTRUCTION, CALIFORNIA STORMWATER QUALITY ASSOCIATION, LATEST EDITION, MAY APPLY DURING CONSTRUCTION (ADDITIONAL MEASURES MAY BE REQUIRED IF DEEMED APPROPRIATE BY INSPECTOR):

NON-STORMWATER MANAGEMENT & MATERIAL MANAGEMENT BMPs

NS-1 - WATER CONSERVATION PRACTICES
NS-2 - DEWATERING OPERATIONS
NS-3 - PAVING AND GRINDING OPERATIONS
NS-6 - ILLICIT CONNECTION/DISCHARGE
NS-7 - POTABLE WATER/IRRIGATION
NS-8 - VEHICLE AND EQUIPMENT CLEANING
NS-10 - VEHICLE AND EQUIPMENT MAINTENANCE
NS-12 - CONCRETE CURING
NS-13 - CONCRETE FINISHING
NS-14 - MATERIAL AND EQUIPMENT USE
WM-1 - MATERIAL DELIVERY AND STORAGE
WM-2 - MATERIAL USE
WM-3 - STOCKPILE MANAGEMENT
WM-4 - SPILL PREVENTION AND CONTROL
WM-5 - SOLID WASTE MANAGEMENT
WM-6 - HAZARDOUS WASTE MANAGEMENT
WM-7 - CONTAMINATED SOIL MANAGEMENT
WM-8 - CONCRETE WASTE MANAGEMENT
WM-9 - SANITARY/SEPTIC WASTE MANAGEMENT
WM-10 - LIQUID WASTE MANAGEMENT

EROSION & SEDIMENTAL CONTROL BMPs

EC-1 - SCHEDULING
EC-2 - PRESERVATION OF EXISTING VEGETATION
EC-7 - GEOTEXTILES & MATS
EC-9 - EARTH DIKES AND DRAINAGE SWALES
EC-11 - SLOPE DRAINS
SE-1 - SILT FENCE
SE-2 - SEDIMENT BASIN
SE-3 - SEDIMENT TRAP
SE-4 - CHECK DAM
SE-5 - FIBER ROLLS
SE-6 - GRAVEL BAG BERM
SE-7 - STREET SWEEPING AND VACUUMING
SE-8 - SANDBAG BARRIER
SE-9 - STRAW BALE BARRIER
SE-10 - STORM DRAIN INLET PROTECTION
WE-1 - WIND EROSION CONTROL
TC-1 - STABILIZED CONSTRUCTION ENTRANCE/EXIT
TC-2 - STABILIZED CONSTRUCTION ROADWAY
TC-3 - ENTRANCE/OUTLET TIRE WASH

EXISTING UNDERGROUND STRUCTURES

THE LOCATIONS OF THE EXISTING UNDERGROUND UTILITIES, AS SHOWN ON THIS PLAN, WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID UTILITY INFORMATION. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE LOCATIONS OF SUCH UNDERGROUND UTILITIES. CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO ANY EXCAVATION OR IMPROVEMENT. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN UNLESS NOTED OTHERWISE IN THIS PLAN SET.

CONSTRUCTION STORM WATER NOTE:
GRADING WORK ASSOCIATED WITH THIS PROJECT WILL DISTURB LESS THAN 1 ACRE OF SOIL AND THUS SHALL NOT BE SUBJECT TO COMPLY WITH NPDES STORM WATER CONSTRUCTION GENERAL PERMIT 2022-0057-DWQ (AS ADOPTED SEPTEMBER 8, 2022)

NOTE TO CONTRACTOR: BEFORE DEMOLITION OR TRENCHING OF ANY KIND OCCURS, THE CONTRACTOR SHALL COMPLETE HIS OWN UNDERGROUND UTILITY MAPPING SURVEY OF THE PROJECT SITE TO DETERMINE WERE EXISTING UTILITIES ARE AND WHERE POSSIBLE UNDERGROUND CONFLICTS MAY OCCUR. PROVIDE SURVEY TO OWNER PRIOR TO STARTING WORK.

SANITARY SEWER GENERAL NOTES

1. SANITARY SEWER PIPING SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE 2024 EDITION OF THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION - GREEN BOOK", AND THE 2025 CALIFORNIA PLUMBING CODE WITH AMENDMENTS.
2. CLEANOUT LIDS SHALL BE SET FLUSH WITH ULTIMATE FINISH GRADE. CLEANOUTS SHALL BE INSTALLED AS SHOWN ON THE PLANS AND IN ACCORDANCE TO SECTIONS 707 AND 719 OF THE 2025 CALIFORNIA PLUMBING CODE.
3. THE CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITY CROSSINGS AND POINTS OF CONNECTION TO THE EXISTING SEWER SYSTEM PRIOR TO CONSTRUCTION OF THE SEWER LINES.
4. ALL SEWER MAINS, CLEANOUT, AND HOUSE CONNECTION LATERALS SHALL BE STAKED BY A LICENSED SURVEYOR IF SLOPE OF GRADE IS LESS THAN 2% AND A COMPLETE SET OF CUT SHEETS SHALL BE SUPPLIED TO THE INSPECTOR.
5. NO TRENCHES ARE TO BE BACKFILLED UNTIL INSPECTED BY THE INSPECTOR.
6. IN ORDER TO PREVENT ACCIDENTAL USE OF THE NEW SEWER PRIOR TO COMPLETION AND ACCEPTANCE OF THE WORK, THE OUTLET OR INLET TO EXISTING TIE-IN CLEANOUT(S) SHALL BE SEALED WITH BROKEN BRICK AND MORTAR. INSTALLATION OF THESE PLUGS SHALL BE APPROVED BY THE INSPECTOR. PLUGS SHALL BE REMOVED ONLY AT THE DIRECTION OF INSPECTOR.
7. NEW SEWER LINES SHALL NOT BE CONNECTED TO THE EXISTING SEWER SYSTEM UNTIL THE NEW LINES HAVE BEEN TESTED PER SECTION 712.0 OF THE 2025 CALIFORNIA PLUMBING CODE. THE LINES SHALL BE TESTED AND CLEANED TO THE INSPECTORS APPROVAL BEFORE THEY ARE CONNECTED TO THE EXISTING SITE SEWER LINES.
8. AFTER PRESSURE TESTING AND CLEANING, BUT PRIOR TO FINAL ACCEPTANCE, SEWER LINES 4" AND ABOVE SHALL HAVE A VIDEOTAPE RECORD OF THEIR INTERIOR PERFORMED. TAPE SHALL BE DELIVERED TO THE INSPECTOR OF RECORD AT THE TIME OF TAPING.

DOMESTIC WATER GENERAL NOTES:

1. WATER VALVE BOXES SHALL BE SET FLUSH WITH ULTIMATE FINISH SURFACE.
2. AFTER PROJECT INSPECTOR HAS INSPECTED INSTALLATION, PERFORM CONNECTIONS TO SERVICING WATER LINES. SCHEDULE SERVICE SHUTDOWN FOR CONNECTING NEW SYSTEM AT A TIME CAUSING MINIMUM DISRUPTION.
3. WHEN WATER PIPING HAS BEEN INSTALLED AND PRESSURE TESTED, STERILIZE SYSTEM BEFORE USE AND/OR SUBSTANTIAL COMPLETION.
4. INJECT SOLUTION OF LIQUID CHLORINE OR SODIUM HYPOCHLORITE AND WATER CONTAINING AT LEAST 50 PPM OF FREE CHLORINE INTO A SYSTEM IN A MANNER TO ENSURE THAT ENTIRE SYSTEM IS COMPLETELY FILLED WITH SOLUTION. DURING THIS PROCEDURE OPERATE VALVES AND TEST OUTLETS FOR RESIDUAL CHLORINE. CONTINUE INJECTION UNTIL OUTLETS INDICATE AT LEAST 59 PPM OF FREE CHLORINE.
5. AFTER INJECTION, ISOLATE SYSTEM AND HOLD SOLUTION IN RETENTION FOR A PERIOD OF AT LEAST 8 HOURS. PERFORM TESTS FOR RESIDUAL CHLORINE AFTER RETENTION. IF SUCH TESTS INDICATE LESS THAN 50 PPM OF RESIDUAL CHLORINE, REPEAT ENTIRE PROCEDURE. AFTER SATISFACTORY STERILIZATION HAS BEEN VERIFIED, FLUSH ENTIRE SYSTEM UNTIL TRACES OF CHLORINE HAVE BEEN REMOVED OR UNTIL CHLORINE CONTENT IS NO GREATER THAN IN EXISTING WATER SUPPLY.
6. PRESSURE TESTING: BEFORE PRESSURE TEST, FILL PORTION OF PIPING BEING TESTED WITH WATER FOR A MINIMUM OF 24 HOURS. PROVIDE HYDROSTATIC PRESSURE OF 50 PSI GREATER THAN THE MAXIMUM WORKING PRESSURE OF TESTED SYSTEM. PROVIDE AND MAINTAIN HYDROSTATIC TEST PRESSURE FOR AT LEAST 2 HOURS TO ENSURE NO LEAKAGE OF ANY PORTION OF PIPING OR APPURTENANCES UNDER PRESSURE TEST.

HORIZONTAL CONTROL

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

BENCHMARK:

LOS ANGELES COUNTY PUBLIC WORKS BENCHMARK NO.: UL4968
ELEVATION = 2609.059' (NAVD '88 / 2010 ADJ.)

L&N IN WEST CB NR BCR @SW CORNER OF PALMDALE BLVD. & 25TH ST ST E

NOTE TO CONTRACTOR: THE REMOVAL AND DISPOSAL OF EXISTING HARDSCAPE & SOFTSCAPE, TO FACILITATE THE TRENCHING OF NEW UNDERGROUND UTILITIES, VAULTS, VALVES, DRAIN INLETS, MANHOLES, ETC. SHOWN IN THE ENTIRE PLAN SET IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH ALL SUB-CONTRACTORS.

CONTRACTOR SHALL COMPLY WITH 2025 C.B.C. AND C.F.C. CHAPTER 33 - FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION

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

SHEET INDEX

SHEET	DESIGNATION
C0.00	SITE IMPROVEMENT PLAN TITLE SHEET
C1.00	SITE DEMOLITION PLAN
C2.00	GRADING PLAN PHASE I
C2.01	GRADING PLAN PHASE II
C3.00	GRADING DETAIL SHEET
C4.00	SITE WET UTILITY PLAN
C4.01	SITE WET UTILITY DETAIL SHEET

ABBREVIATIONS

ABND	ABANDONED	MH	MANHOLE
AC	ASPHALT PAVEMENT	NG	NATURAL GROUND
ACP	ASBESTOS CEMENT PIPE (TRANSITE)	N.I.C.	NOT IN CONTRACT
BLDG	BUILDING	P.C.C.	PORTLAND CEMENT CONRETE
BC	BEGINNING OF CURVE	℄	PROPERTY LINE
BW	BACK OF WALK	PIV	POST INDICATOR VALVE
℄	CENTERLINE	PP	POWER POLE
CB	CATCH BASIN	RCE	REGISTERED CIVIL ENGINEER
CF	CURB FACE HEIGHT	RR	RAILROAD
CLF	CHAIN LINK FENCE	S	SLOPE
CONC	CONCRETE	SD	STORM DRAIN
DCV	DETECTOR CHECK VALVE	SDMH	STORM DRAIN MANHOLE
DESC	DESCRIBED	SL	STREET LIGHT
D/W	DRIVEWAY	SMH	SEWER MANHOLE
DI	DROP INLET	S.P.P.W.C.	STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION (2021 EDITION).
EP	EDGE OF PAVEMENT	S.S.P.W.C.	STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREEN BOOK), 2024 EDITION
EC	END OF CURVE	SW	SIDEWALK
EX	EXISTING	TC	TOP OF CURB
FDC	FIRE DEPARTMENT CONNECTION	TELE	TELEPHONE
FH	FIRE HYDRANT	TG	TOP OF GRATE
FL	FLOWLINE	TCO	TOP OF CLEANOUT
FS	FINISH SURFACE	TS	TRAFFIC SIGN
GA	GUY ANCHOR	TW	TOP OF WALL
GB	GRADE BREAK	TYP.	TYPICAL
GP	GUARD POST	UDG	UNDERGROUND CONDUIT
GV	GAS VALVE	UTIL	UTILITY
HB	HOSE BIBB	WM	WATER METER
HP	HIGH POINT	WV	WATER VALVE
ICV	IRRIGTION CONTROL VALVE	W VLT	WATER VAULT
INV	INVERT	VIF	VERIFY IN FIELD
IP	IRON PIPE	VLT	VAULT
L	LENGTH		
LIP	LIP OF GUTTER		
LP	LIGHT POLE		
L T & T	LEAD TACK AND TAG		

LEGEND

- SEWER MANHOLE
- STORM DRAIN MANHOLE
- TELEPHONE MANHOLE
- FIRE HYDRANT
- SEWER CLEANOUT
- WATER VALVE
- GAS VALVE
- WATER METER
- GAS METER
- WATER VAULT
- GAS VAULT
- TELEPHONE VAULT
- ELECTRIC VAULT
- WELL
- ELECTRIC PULLBOX
- GUY WIRE
- LIGHT
- OVERHANG POST
- SIGN POST
- WIRE FENCE
- CHAIN LINK FENCE
- BLOCK WALL
- TREE
- FLOW DIRECTION
- FS FINISHED SURFACE
- FF FINISHED FLOOR
- —(2595.0)— EXISTING CONTOUR
- 2595.0 PROPOSED CONTOUR
- IRRIGATION VALVE
- GRATE
- CF CURB FACE
- INV INVERT

UNDERGROUND UTILITY LINETYPE LEGEND:

- W — NEW DOMESTIC WATER
- SEW — NEW SANITARY SEWER
- W — EXISTING DOMESTIC WATER
- SEW — EXISTING SANITARY SEWER
- G — EXISTING GAS
- E — EXISTING ELECTRICAL/POWER
- COMM — EXISTING COMMUNICATIONS
- SD — EXISTING STORM DRAIN
- F — EXISTING FIRE WATER

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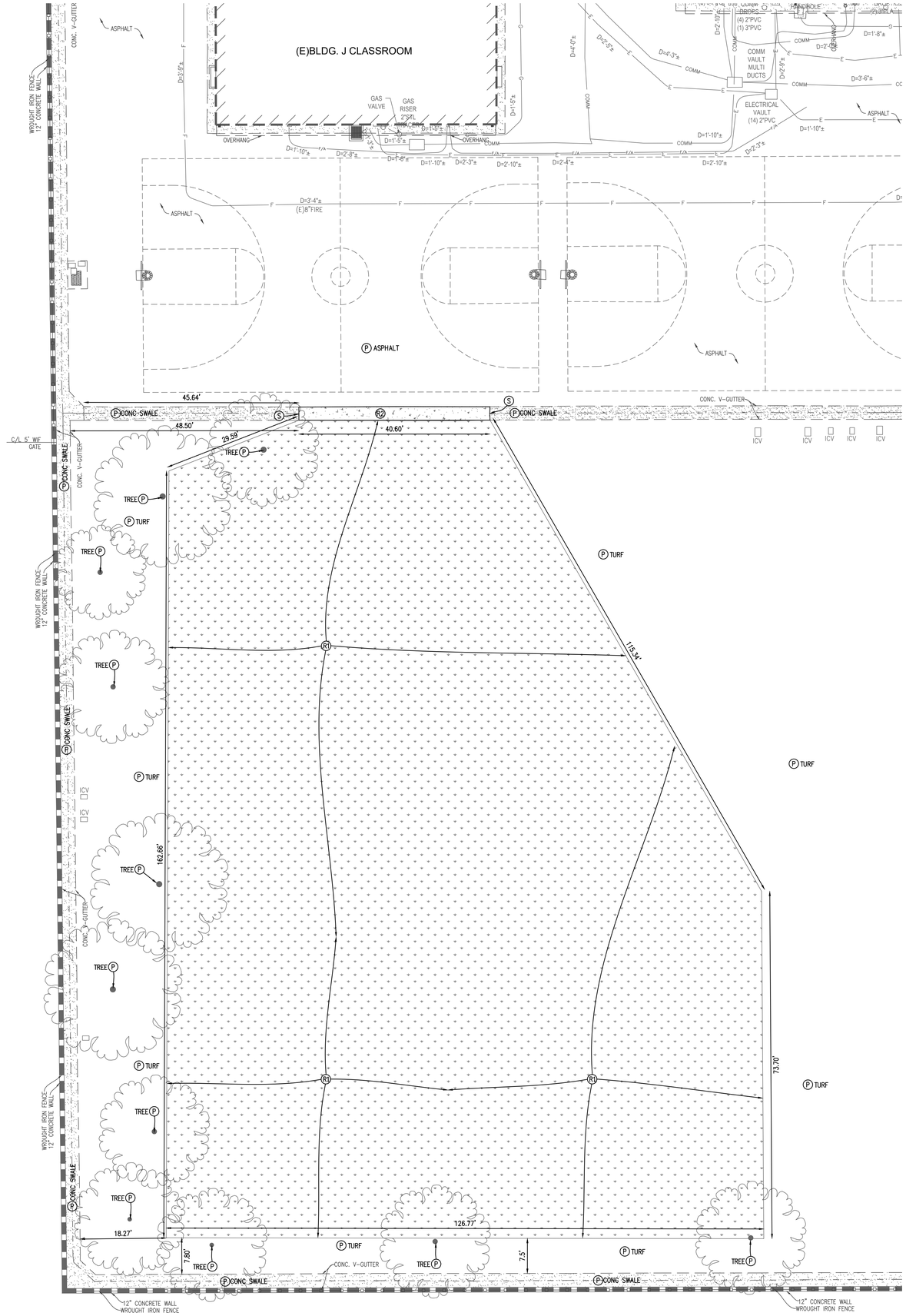
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consultant

COMMUNITY DAY SCHOOL
SOUTH CAMP



GENERAL DEMOLITION NOTES

1. ALL ITEMS, SHOWN ON THIS PLAN TO BE REMOVED, SHALL BE VERIFIED BY THE SCHOOL DISTRICT PRIOR TO DEMOLITION. THE CONTRACTOR SHALL MEET WITH THE SCHOOLS REPRESENTATIVE PRIOR TO CLEARING AND GRUBBING.
2. THE CONTRACTOR SHALL VERIFY THE LOCATION AND QUANTITY OF EXISTING SURFACE STRUCTURES AND SHALL BE SOLELY RESPONSIBLE FOR ANY UNIDENTIFIED UTILITIES, IMPROVEMENTS, TREES, ETC., TO BE DEMOLISHED AND REMOVED WITHIN THE DEMOLITION LIMIT LINE, INCLUDING APPURTENANT FOUNDATIONS OR SUPPORTS.
3. REMOVAL OF LANDSCAPING SHALL INCLUDE ROOTS AND ORGANIC MATERIAL.
4. ALL CONCRETE & CMU BLOCK WALLS & PLANTERS SHOWN ON THIS PLAN TO BE REMOVED SHALL INCLUDE WALL FOOTINGS & FOUNDATIONS IN THEIR REMOVAL.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A SITE INSPECTION TO FIELD VERIFY AND FULLY ACKNOWLEDGE THE EXTENT OF THE DEMOLITION WORK. ALL ITEMS TO BE REMOVED SHALL BE MARKED BY THE CONTRACTOR PRIOR TO DEMOLITION.
6. DAMAGE TO ANY EXISTING UTILITIES AND SERVICES WHICH ARE TO REMAIN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL REPAIR AND/OR REPLACE IN KIND.
7. TEMPORARY EROSION CONTROL MEASURES SHALL BE IMPLEMENTED TO PREVENT DEBRIS AND UNSUITABLE MATERIALS FROM ENTERING STORM DRAIN, SANITARY SEWERS AND STREETS.
8. DUST CONTROL SHALL BE IMPLEMENTED DURING DEMOLITION.
9. THE PROVISIONS OF CALIFORNIA FIRE CODE CHAPTER 14 AND CALIFORNIA BUILDING CODE CHAPTER 37 SHALL BE ENFORCED ON THIS PROJECT.
10. CONTRACTOR SHALL COMPLY WITH CALIFORNIA FIRE CODE CHAPTER 33 - FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION.
11. THE CONTRACTOR SHALL DEMOLISH AND REMOVE ALL LANDSCAPING WATERING SYSTEMS WITHIN THE DEMOLITION LIMIT LINE UNLESS DESIGNATED TO REMAIN IN PLACE ON THE PLANS. WHERE THE DEMOLITION IMPACTS EXISTING LANDSCAPE TO REMAIN, MODIFY THE EXISTING IRRIGATION SYSTEM, INCLUDING ADDING IRRIGATION HEADS AS NECESSARY TO MAINTAIN COMPLETE AND FULL COVERAGE OF EXISTING PLANNING.
12. CONTRACTOR SHALL NOT DAMAGE ANY PUBLIC SIDEWALK DURING THE COURSE OF HIS WORK. THE USE OF SHORING ON SCHOOL PROPERTY WILL BE REQUIRED TO PROTECT THE PUBLIC SIDEWALK IF NECESSARY.
13. THE CONTRACTOR SHALL BACKFILL SOIL IN THE EXCAVATED TREE ROOT PITS AND THE TRENCHES FOR REMOVED EXISTING UNDERGROUND STRUCTURES, UTILITIES, AND IMPROVEMENTS.
14. THE CONTRACTOR SHALL NOT ABANDON-IN-PLACE ANY EXISTING UNDERGROUND STRUCTURE, UTILITY, OR IMPROVEMENT SO DESIGNATED FOR REMOVAL ON THE PROJECT PLANS UNLESS DIRECTED TO BY THE OWNER.
15. CONTRACTOR TO SAWCUT ALL EXISTING A.C. AND CONCRETE PAVEMENT AT DEMOLITION LIMIT LINE. CONTRACTOR SHALL REMOVE SIDEWALK, CURB & GUTTER TO THE NEAREST JOINT.
16. CONTRACTOR SHALL REPLACE ALL EXISTING IMPROVEMENTS OUTSIDE THE DEMOLITION LIMIT LINE THAT ARE DAMAGED DURING CONSTRUCTION TO MATCH EXISTING, INCLUDING PERMANENT TRENCH RESURFACING.
17. CONTRACTOR SHALL FIELD VERIFY THAT THE REMOVAL OF EXISTING UTILITIES WILL NOT IMPACT AREA OPERATIONS.
18. BEFORE EXCAVATING ANY TRENCH 5 FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL SUBMIT A DETAILED PLAN TO THE SCHOOL SHOWING THE DESIGN OF SHORING, BRACING, SLOPING, OR OTHER PROVISIONS TO BE MADE FOR THE WORKERS' PROTECTION FROM THE HAZARD OF CAVING GROUND DURING THE EXCAVATION OF SUCH TRENCH. IF THE PLAN VARIES FROM THE SHORING SYSTEM STANDARDS, THE PLAN SHALL BE PREPARED BY A REGISTERED CIVIL ENGINEER. NO EXCAVATION SHALL START UNTIL THE SCHOOL HAS ACCEPTED THE PLAN AND THE CONTRACTOR HAS OBTAINED A PERMIT FROM THE STATE DIVISION OF INDUSTRIAL SAFETY.
19. CONTRACTOR IS RESPONSIBLE TO KEEP ALL UTILITES OPERATIONAL THAT SERVES FACILITIES OUTSIDE THE SCOPE OF THE DEMOLITION ZONE. CONTRACTOR IS ALSO RESPONSIBLE TO REROUTE UTILITIES IF NECESSARY TO COMPLETE DEMOLITION.
20. CONTRACTOR SHALL INSTALL A TEMPORARY MINIMUM 8' HIGH CHAIN LINK CONSTRUCTION FENCE, WITH GREEN SCREEN, AROUND PERIMETER OF DEMOLITION AREA.
21. ALL EXISTING DRAINAGE STRUCTURES ON SITE SHALL BE PROTECTED AND REMAIN FUNCTIONAL DURING DEMOLITION AND THROUGH THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THESE STRUCTURES, OR DAMAGE CAUSED TO ADJACENT PROPERTIES DUE TO THE OBSTRUCTION OF THESE STRUCTURES.

UNDERGROUND UTILITY LINETYPE LEGEND:

W — W	EXISTING DOMESTIC WATER
SEW — SEW	EXISTING SANITARY SEWER
G — G	EXISTING GAS
E — E	EXISTING ELECTRICAL/POWER
COMM — COMM	EXISTING COMMUNICATIONS
SD — SD	EXISTING STORM DRAIN
F	EXISTING FIRE WATER

1'-6" DEPTH FROM SURFACE — DEPTH OF (E)UTILITY ARE APPROXIMATE AND PROVIDED FROM THE UNDERGROUND UTILITY MAPPING SURVEY; ESTIMATED DEPTHS ARE FROM THE GROUND SURFACE TO THE CENTER OF THE PIPE, INVERT OF WASTE LINES, OR TO THE PIPE TRACER WIRE. DEPTH ESTIMATES SHOULD BE USED WITH CAUTION AND MAY VARY ALONG THE LENGTH OF THE UTILITY.

SITE DEMOLITION NOTES:

- (P) PROTECT EXISTING IMPROVEMENT IN PLACE.
- (S) SAWCUT EXISTING PAVEMENT WITH CLEAN EDGE.
- (R1) CLEAR & GRUB EXISTING TURF. REMOVE BELOW GRADE IRRIGATION AND HEADS UNDER NEW ASPHALT AND BASE MATERIAL.
- (R2) REMOVE & DISPOSE OF EXISTING SWALE.

HATCH LEGEND:

- = EXISTING CONCRETE TO BE PROTECTED
- = CLEAR AND GRUB EXISTING TURF (R1)
- = REMOVE AND DISPOSE CONCRETE SWALE (R2)

N

10 5 0 10 20 30

SCALE: 1" = 10'

CONTRACTOR SHALL COMPLY WITH CBC AND CFC CH 33 - FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION. REFER TO DSA BULLETIN 24-05 FOR FURTHER INFORMATION

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CONSTRUCTION STORM WATER NOTE:
GRADING WORK ASSOCIATED WITH THIS PROJECT WILL DISTURB LESS THAN 1 ACRE OF SOIL AND THUS SHALL NOT BE SUBJECT TO COMPLY WITH THE NPDES GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION AND LAND DISTURBANCE ACTIVITIES (GENERAL PERMIT) ORDER WQ 2022-0057-DWQ.

NOTE TO CONTRACTOR: BEFORE DEMOLTION OR TRENCHING OCCURS, THE CONTRACTOR SHALL COMPLETE AN UNDERGROUND UTILITY MAPPING SURVEY OF THE ENTIRE LIMITS OF WORK TO DETERMINE WERE EXISTING UTILITIES ARE AND WHERE POSSIBLE UNDERGROUND CONFLICTS MAY OCCUR. PROVIDE SURVEY TO OWNER.

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COMMUNITY DAY SCHOOL SOUTH CAMPUS INTERIM HOUSING

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ANTELOPE VALLEY UNION HIGH SCHOOL DISTRICT

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date:

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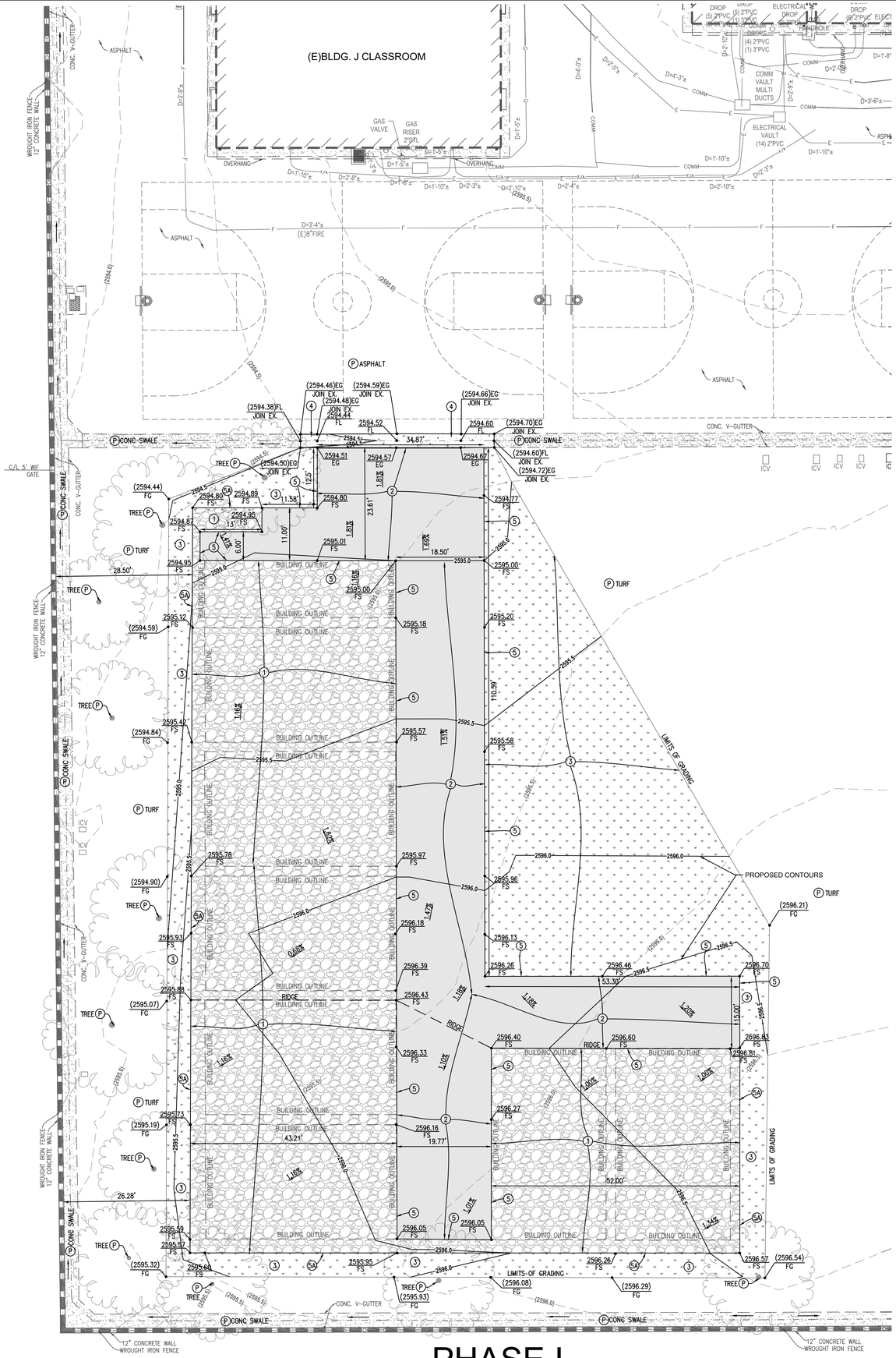
drawing title:

SITE DEMOLITION PLAN

drawing no.:

C1.00

PLOT DATE: 3/21/2026 - 7:55 PM PLOT BY: Jessica Zia LAST SAVED BY: jessica.zia S:\Jobs\2757 - TBP Architect\2757\n26 - Community Day School\Civil\Community Day Interim Housing C1.00 - Site Demolition Plan.dwg



PHASE I

CONSTRUCTION NOTES:

(P) PROTECT EXISTING IMPROVEMENT IN PLACE.
(1) CONSTRUCT CRUSHED MISCELLANEOUS BASE OVER COMPACTED SUBGRADE, TO THE ELEVATIONS SHOWN HEREON, AND DETAIL 1.
(2) CONSTRUCT ASPHALT PAVEMENT SECTION PER DETAIL 2 HEREON.
(3) HYDROSEED TURF TO MATCH EXISTING SPECIES AND MODIFY AND/OR ADD IRRIGATION PIPES AND HEADS AS NECESSARY.
(4) CONSTRUCT CONCRETE SWALE PER DETAIL 4/C3.00 AND GRADES HEREON.
(5) CONSTRUCT REDWOOD HEADER PER DETAIL 5/C3.00.
(5A) CONSTRUCT REDWOOD HEADER AGAINST BASE PER DETAIL 5A/C3.00.

HATCH LEGEND:

= PROTECT EXISTING CONCRETE PAVEMENT
= PROPOSED CRUSHED MISCELLANEOUS BASE (1)
= PROPOSED ASPHALT PAVEMENT (2)
= NEW HYDROSEED TURF (3)

N

10 5 0 10 20 30

SCALE: 1" = 10'

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D=1'-6" DEPTH FROM SURFACE

DEPTH OF (E)UTILITY ARE APPROXIMATE AND PROVIDED FROM THE UNDERGROUND UTILITY MAPPING SURVEY. ESTIMATED DEPTHS ARE FROM THE GROUND SURFACE TO THE CENTER OF THE PIPE, INVERT OF WASTE LINES, OR TO THE PIPE TRACER WIRE. DEPTH ESTIMATES SHOULD BE USED WITH CAUTION AND MAY VARY ALONG THE LENGTH OF THE UTILITY.

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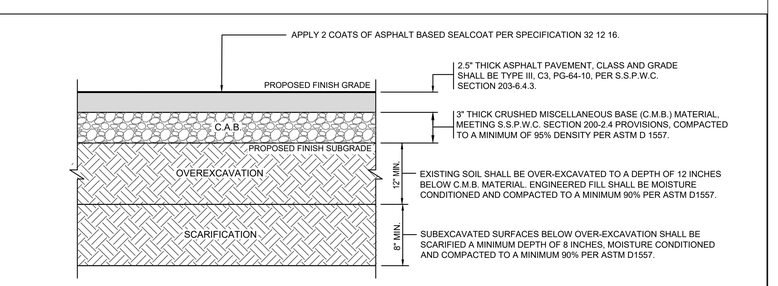
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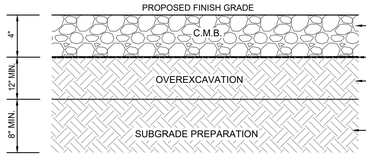
EXISTING UNDERGROUND STRUCTURES

THE LOCATIONS OF THE EXISTING UNDERGROUND UTILITIES, AS SHOWN ON THIS PLAN, WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID UTILITY INFORMATION. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE LOCATIONS OF SUCH UNDERGROUND UTILITIES. CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO ANY EXCAVATION OR IMPROVEMENT. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN UNLESS NOTED OTHERWISE IN THIS PLAN SET.



(2) ASPHALT PAVEMENT SECTION DETAIL
NOT TO SCALE

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



(1) CRUSHED MISC. BASE DETAIL
NOT TO SCALE

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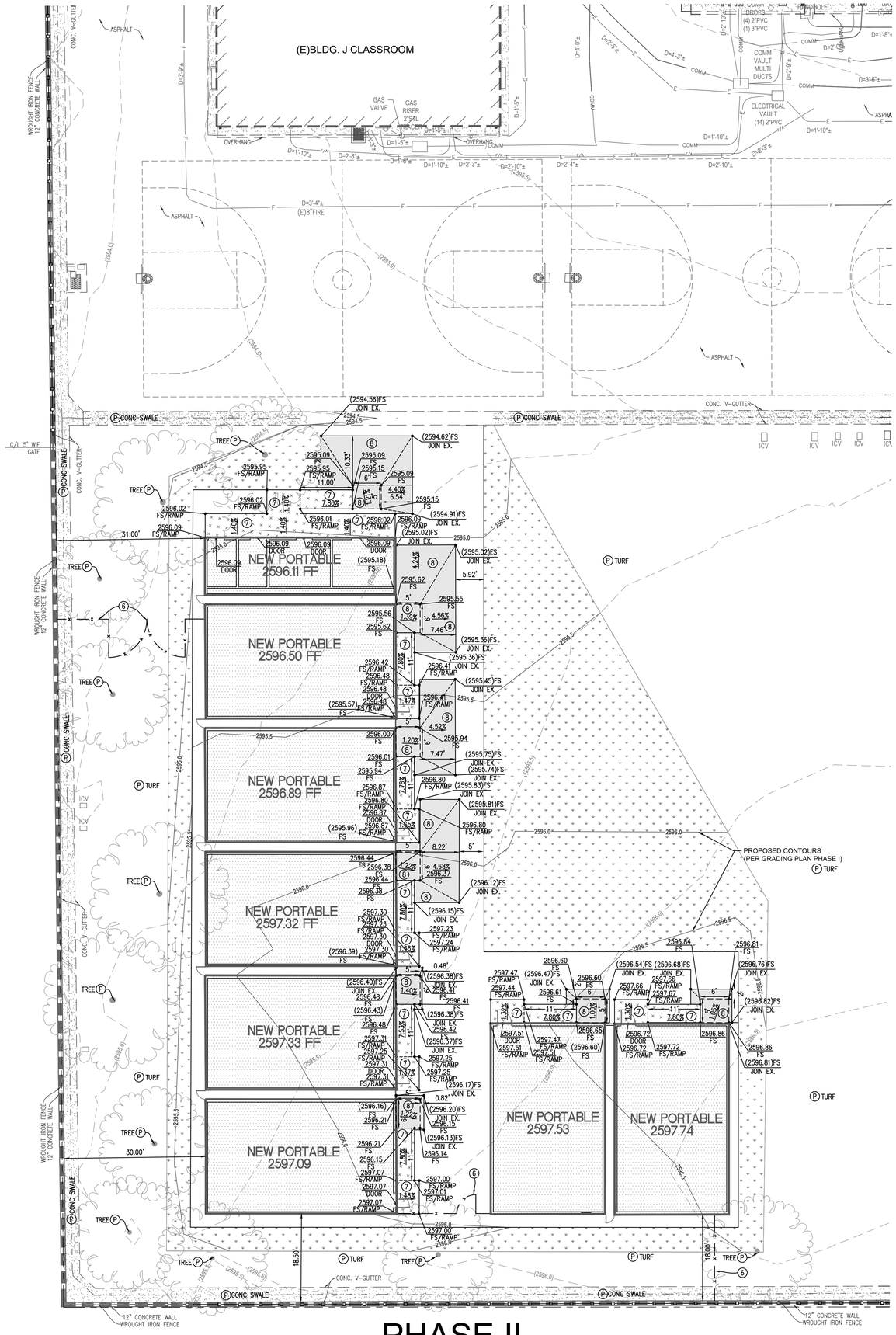
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drawing title:
GRADING PLAN PHASE I

drawing no.:
C2.00

PLOT DATE: 5/21/2026 8:01 PM PLOT BY: Jessica Zia LAST SAVED BY: jessica.zia S:\Jobs\2757\2757m26 - Community Day School\Civil\Community Day Interim Housing C2.00 - Grading Plan Phase I.dwg



CONSTRUCTION NOTES:

6. CONSTRUCT FENCING PER ARCHITECTURAL PLANS.
7. CONSTRUCT LANDING AND RAMP PER MANUFACTURER PLANS AND GRADES HEREON OVER EXISTING ASPHALT PAVEMENT CONSTRUCTED IN PHASE I.
8. CONSTRUCT ASPHALT LANDING TRANSITION PER DETAIL 8 HEREON. CLEAN SURFACE OF ASPHALT CONSTRUCTED IN PHASE I. APPLY TACK COAT MEETING SECTION 302-5.4 PROVISIONS PER THE S.S.P.W.C. (GREENBOOK) ON ALL EXISTING SURFACES IN WHICH ASPHALT PAVEMENT WILL BE OVERLAID.

HATCH LEGEND:

= PROTECT EXISTING CONCRETE PAVEMENT

= PROPOSED ASPHALT RAMP TRANSITION (2)

= PROPOSED BUILDING

= NEW TURF

= PROPOSED RAISED PLATFORM & RAMP INSTALLED OVER ASPHALT PAVEMENT. (PAVEMENT INSTALLED IN PHASE I) MAXIMUM CROSS SLOPE SHALL NOT EXCEED 2.0%.

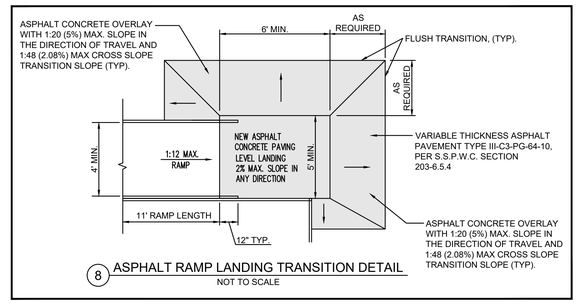
10 5 0 10 20 30

SCALE: 1" = 10'

UNDERGROUND UTILITY LINETYPE LEGEND:

- W — EXISTING DOMESTIC WATER
- SEW — EXISTING SANITARY SEWER
- G — EXISTING GAS
- E — EXISTING ELECTRICAL/POWER
- COMM — EXISTING COMMUNICATIONS
- SD — EXISTING STORM DRAIN
- F — EXISTING FIRE WATER

D=1'-6" DEPTH FROM SURFACE — DEPTH OF (E)UTILITY ARE APPROXIMATE AND PROVIDED FROM THE UNDERGROUND UTILITY MAPPING SURVEY. ESTIMATED DEPTHS ARE FROM THE GROUND SURFACE TO THE CENTER OF THE PIPE, INVERT OF WASTE LINES, OR TO THE PIPE TRACER WIRE. DEPTH ESTIMATES SHOULD BE USED WITH CAUTION AND MAY VARY ALONG THE LENGTH OF THE UTILITY.



8 ASPHALT RAMP LANDING TRANSITION DETAIL

NOT TO SCALE

EXISTING UNDERGROUND STRUCTURES

THE LOCATIONS OF THE EXISTING UNDERGROUND UTILITIES, AS SHOWN ON THIS PLAN, WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID UTILITY INFORMATION. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE LOCATIONS OF SUCH UNDERGROUND UTILITIES. CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO ANY EXCAVATION OR IMPROVEMENT. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN UNLESS NOTED OTHERWISE IN THIS PLAN SET.

CONTRACTOR SHALL COMPLY WITH CBC AND CFC CH 33 - FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION. REFER TO DSA BULLETIN 24-05 FOR FURTHER INFORMATION

NOTE TO CONTRACTOR: THE REMOVAL AND DISPOSAL OF EXISTING HARDSCAPE & SOFTSCAPE, TO FACILITATE THE TRENCHING OF NEW UNDERGROUND UTILITIES, VAULTS, VALVES, DRAIN INLETS, MANHOLES, ETC. SHOWN IN THE ENTIRE PLAN SET IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH ALL SUB-CONTRACTORS.

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CONSTRUCTION STORM WATER NOTE:
GRADING WORK ASSOCIATED WITH THIS PROJECT WILL DISTURB LESS THAN 1 ACRE OF SOIL AND THUS SHALL NOT BE SUBJECT TO COMPLY WITH THE NPDES GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION AND LAND DISTURBANCE ACTIVITIES (GENERAL PERMIT) ORDER WQ 2022-0057-DWQ.

NOTE TO CONTRACTOR: BEFORE DEMOLTION OR TRENCHING OCCURS, THE CONTRACTOR SHALL COMPLETE AN UNDERGROUND UTILITY MAPPING SURVEY OF THE ENTIRE LIMITS OF WORK TO DETERMINE WERE EXISTING UTILITIES ARE AND WHERE POSSIBLE UNDERGROUND CONFLICTS MAY OCCUR. PROVIDE SURVEY TO OWNER.

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consultant

COMMUNITY DAY SCHOOL SOUTH CAMPUS INTERIM HOUSING

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ANTELOPE VALLEY UNION HIGH SCHOOL DISTRICT

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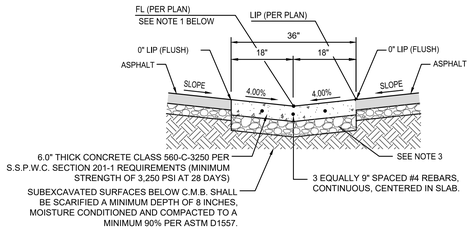
drawing title:

GRADING PLAN PHASE II

drawing no.:

C2.01

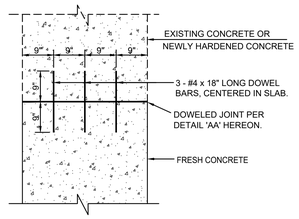
PLOT DATE: 5/21/2026 7:56 PM PLOT BY: Jessica Zia LAST SAVED BY: jessica.zia S:\Jobs\2757 - TBP Architects\2757m28 - Community Day School\Civil\Community Day Interim Housing C2.01 - Grading Plan Phase II.dwg



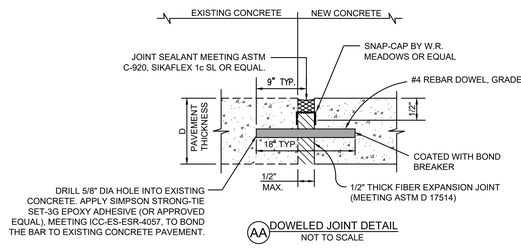
4 CONCRETE SWALE DETAIL
NOT TO SCALE

CONCRETE SWALE NOTES:

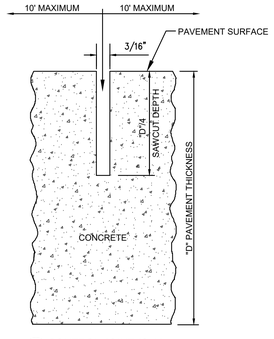
1. CONCRETE SWALE SHALL HAVE A 4" WIDE FLOWLINE SMOOTH STEEL TROWEL FINISH.
2. CONSTRUCT CONTROL JOINTS IN SWALE AT REGULAR INTERVALS OF 10'.
3. A 4" THICK LAYER OF CRUSHED MISCELLANIOUS BASE MATERIAL SHALL BE PLACED UNDER THE CONCRETE SWALE. MINIMUM COMPACTION OF 95% ON SUBGRADE IS REQUIRED.



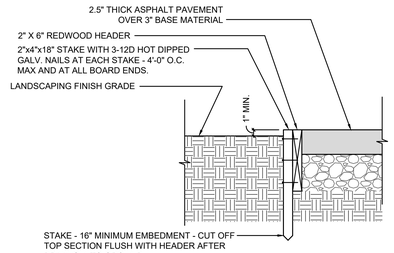
DOWELED JOINT DETAIL IN SWALE
PLAN VIEW
NOT TO SCALE



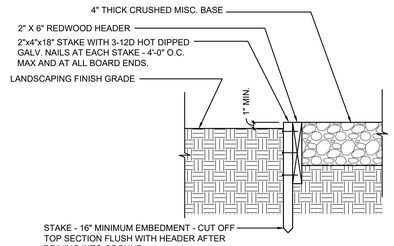
AA DOWELED JOINT DETAIL
NOT TO SCALE



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



5 REDWOOD HEADER DETAIL
NOT TO SCALE



5A REDWOOD HEADER AGAINST BASE DETAIL
NOT TO SCALE

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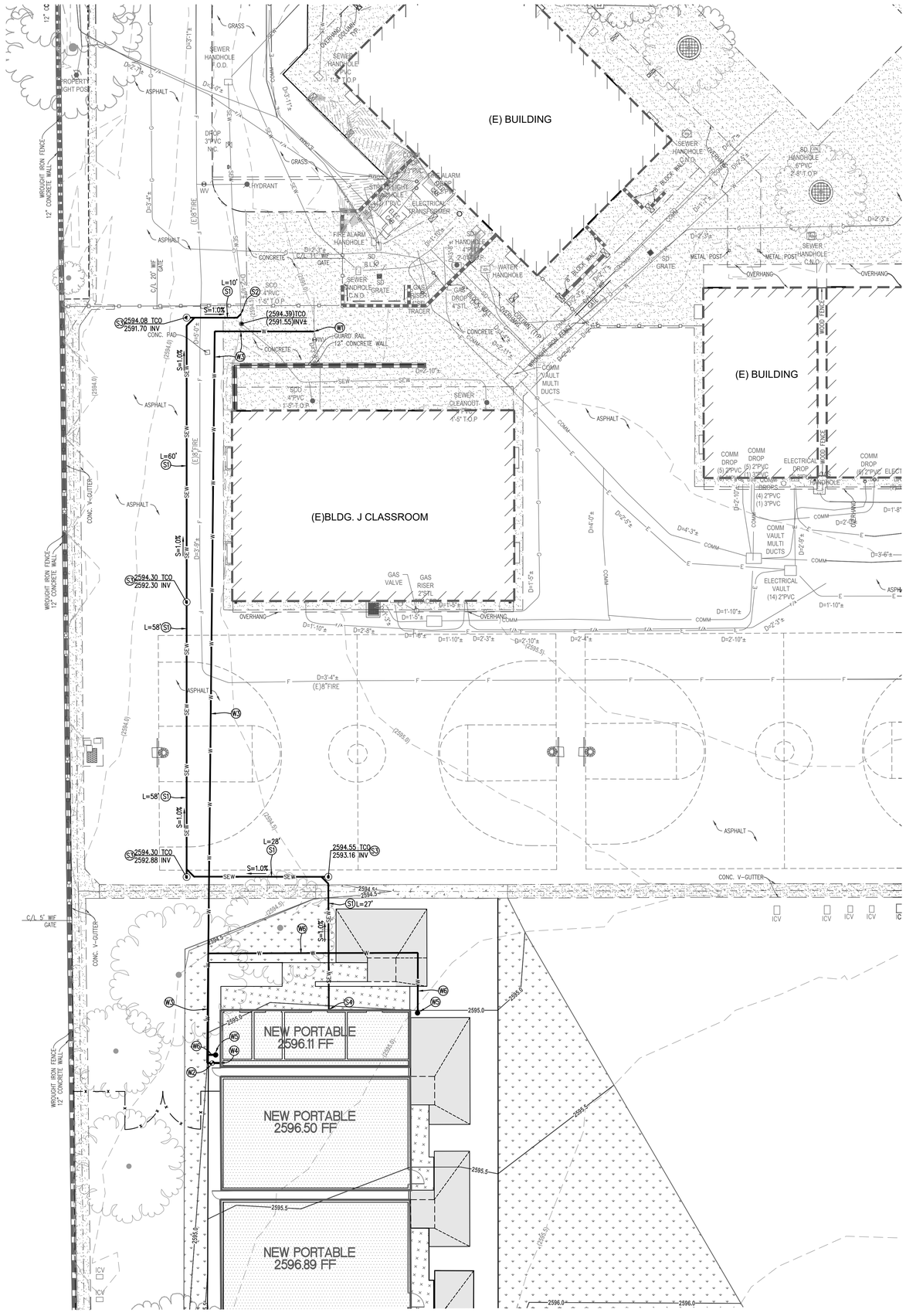
drawing title:

GRADING DETAIL SHEET

drawing no.:

C3.00

PLOT DATE: 5/7/2024 7:56 PM PLOT BY: Jessica Zia LAST SAVED BY: jessica.zia S:\Jobs\2127 - TBP Architects\2170\ncfs - Community Day School\Civil\Community Day Interim Housing C3.00 - Grading Detail Sheet.dwg



SANITARY SEWER CONSTRUCTION NOTES:

- (S1) CONSTRUCT 4" SDR-35 PVC GASKETED PIPE & FITTINGS PER UTILITY TRENCHING DETAILS ON C4.01. CONSTRUCT AT A MINIMUM 1.0% SLOPE.
- (S2) CONNECT TO EXISTING SEWER WITH APPLICABLE FITTINGS / COUPLINGS.
- (S3) CONSTRUCT SEWER CLEANOUT & YARD BOX PER DETAIL S3/C4.01.
- (S4) CONNECT TO BUILDING SEWER PER MODULAR BUILDING DRAWINGS.

POTABLE WATER CONSTRUCTION NOTES:

- (W1) CONNECT TO EXISTING 3" WATER LINE WITH APPLICABLE FITTINGS/ COUPLINGS.
- (W2) CONSTRUCT 2" WATER SHUT OFF VALVE PER DETAIL W2/C4.01.
- (W3) CONSTRUCT 2" SCH. 80 PVC PIPE & FITTINGS PER UTILITY TRENCHING DETAILS ON C4.01.
- (W4) CONNECT TO BUILDING WATER PER MODULAR DRAWINGS.
- (W5) CONSTRUCT HOSE BIB PER DETAIL W5/C4.01.
- (W6) CONSTRUCT 3/4" SCH. 80 PVC PIPE & FITTINGS PER UTILITY TRENCHING DETAILS ON C4.01.

HATCH LEGEND:

- = PROTECT EXISTING CONCRETE PAVEMENT
- = PROPOSED ASPHALT RAMP TRANSITION
- = PROPOSED BUILDING
- = NEW TURF
- = PROPOSED PORTABLE RAMP

N

10 5 0 10 20 30

SCALE: 1" = 10'

UNDERGROUND UTILITY LINETYPE LEGEND:

- W — NEW DOMESTIC WATER
- SEW — NEW SANITARY SEWER
- W — EXISTING DOMESTIC WATER
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CONTRACTOR TO REPAINT STRIPED AREAS DAMAGED DURING THE COURSE OF CONSTRUCTION / TRENCHING TO MATCH EXISTING.

UNDERGROUND UTILITY COORDINATION NOTE:

THE CONTRACTOR IS RESPONSIBLE TO COORDINATE AND CONSTRUCT ALL UNDERGROUND UTILITIES SO THAT THE PROPOSED SEWER PIPES ARE INSTALLED AT A MINIMUM 1.0% SLOPE. IF ELECTRICAL / FIRE ALARM / COMMUNICATION CONDUITS ARE INSTALLED PRIOR TO SEWER LINES. THE CONTRACTOR MUST CONSTRUCT THE CONDUITS SO THEY DO NOT CLASH WITH THE NEW SEWER LINE. CONTRACTOR IS RESPONSIBLE FOR ALL COSTS INCURRED IF SEWER LINES ARE NOT INSTALLED AT A MINIMUM 1.0%

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TRENCHING NOTICE TO CONTRACTOR

POTABLE WATER PIPES SHALL NOT BE RUN OR LAID IN THE SAME TRENCH AS BUILDING SEWER UNLESS BOTH OF THE FOLLOWING CONDITIONS ARE MET PER 2025 CALIFORNIA PLUMBING CODE, SECTION 609.2:

THE BOTTOM OF THE WATER PIPE, AT ALL POINTS, SHALL BE AT LEAST TWELVE (12) INCHES ABOVE THE TOP OF THE SEWER LINE.

THE WATER PIPE SHALL BE PLACED ON A SOLID SHELF EXCAVATED AT ONE SIDE OF THE COMMON TRENCH WITH A MINIMUM CLEAR HORIZONTAL DISTANCE OF AT LEAST TWELVE (12) INCHES FROM THE SEWER.

CONTRACTOR SHALL COMPLY WITH CBC AND CFC CH 33 - FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION. REFER TO DSA BULLETIN 24-05 FOR FURTHER INFORMATION

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SITE WET UTILITY PLAN

drawing no.:

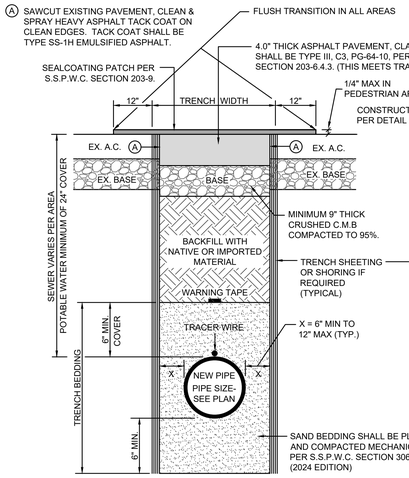
C4.00

PLOT DATE: 5/21/2026 7:58 PM PLOT BY: Jessica Zia LAST SAVED BY: jessica.zia S:\Jobs\2757 - TBP Architects\2757m26 - Community Day School\Civil\Community Day Interim Housing C4.00 - Site Wet Utility Plan.dwg

UTILITY TRENCHING DETAILS

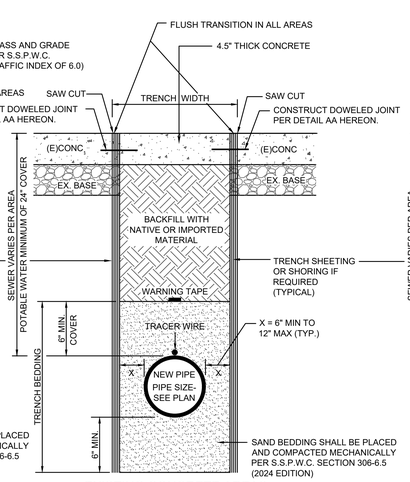
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THE EXTENT THAT PEDESTRIAN SURFACES ARE TRENCHED AND PATCHED, THE PATH SHALL COMPLY WITH CBC 11B-302.1 & 11B-303.



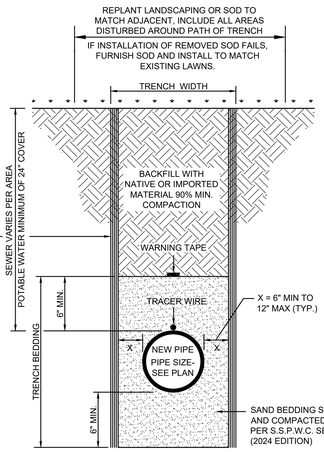
EXISTING ASPHALT AREAS

N.T.S.



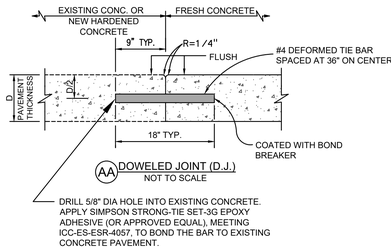
EXISTING CONCRETE AREAS

N.T.S.



NEW OR EXISTING LANDSCAPED AREAS

N.T.S.



TRENCH EXCAVATION, BEDDING, & BACKFILL NOTES:

EXCAVATION NOTE: THE 2022 CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH REGULATIONS (CAL/OSHA) WILL REQUIRE A PERMIT FOR THE CONSTRUCTION OF TRENCHES OR EXCAVATIONS WHICH ARE FIVE (5) FEET OR DEEPER AND INTO WHICH A PERSON IS REQUIRED TO DESCEND. FOR PERMIT PURPOSES, "DESCEND" MEANS TO ENTER ANY PART OF THE TRENCH OR EXCAVATION ONCE THE EXCAVATION HAS ATTAINED A DEPTH OF 5 FEET OR MORE. FOR REGULATIONS RELATING TO PERMITS FOR EXCAVATIONS AND TRENCHES, REFER TO THE CALIFORNIA CODE OF REGULATIONS TITLE 8, CHAPTER 3.2, ARTICLE 2, SECTION 341 OF THE CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH REGULATIONS (CAL/OSHA)

THE CONTRACTOR SHALL SUBMIT A DETAIL SHOWING THE DESIGN OR SHORING; BRACING SLOPING OR OTHER PROVISIONS TO BE MADE FOR WORKER PROTECTION FROM THE HAZARDS OF CAVING GROUND DURING THE EXCAVATION. THE PLAN SUBMITTED SHALL BE SIGNED BY A REGISTERED CIVIL OR STRUCTURAL ENGINEER CERTIFIED THAT THE PLAN COMPLIES WITH ALL OSHA CONSTRUCTION SAFETY ORDERS.

BEDDING MATERIAL SHALL BE COARSE SAND WITH SAND EQUIVALENT OF 30 OR GREATER. NO ANGULAR STONES OR PEA GRAVELS WILL BE ALLOWED IN PIPE BEDDING.

COMPACTION METHODS: ALL BEDDING & BACKFILL COMPACTION SHALL BE BY HAND-OPERATED, PLATE-TYPE, VIBRATORY, OR OTHER SUITABLE HAND-TAMPERS IN AREAS NOT ACCESSIBLE TO LARGER ROLLERS OR COMPACTERS. EXTREME CARE SHALL BE TAKEN TO AVOID DAMAGE TO CONDUITS, PIPES, AND ANY APPURTENANCES. BACKFILL DENSIFICATION BY INUNDATION OR JETTING SHALL NOT BE PERMITTED WITHOUT PRIOR WRITTEN APPROVAL FROM CIVIL ENGINEER. SAND BEDDING SHALL BE PLACED AND COMPACTED MEETING S.S.P.W.C. SECTION 306-6.5 PLACEMENT AND COMPACTION, 2021 EDITION.

SHEETING: WHEN EXCAVATION DEPTHS OR SOIL CONDITIONS REQUIRE SHORING OR USE OF A TRENCH BOX, THE BOTTOM OF THE SHORING OR TRENCH BOX SHOULD BE PLACED NO LOWER THEN THE TOP OF THE PIPE. THIS PREVENTS DISRUPTION OF THE BACKFILL ENVELOPE WHEN REMOVING THE SHORING OR TRENCH BOX. IF THIS PRACTICE CANNOT BE FOLLOWED, CONSIDERATION SHOULD BE GIVEN TO LEAVING THE SHORING IN PLACE.

GENERAL BACKFILL NOTES:

EXCAVATED TRENCH MATERIAL TO BE INSTALLED FOR BACKFILLING SHALL BE CLEAN, FREE OF LARGE CLODS AND STONES LARGER THAN 3-INCHES IN ANY DIMENSION. INSTALL BACKFILL MATERIALS IN LAYERS NOT TO EXCEED 8 TO 10-INCHES IN THICKNESS. WITHIN PAVEMENT AREAS, THE UPPER 12 INCHES OF SUBGRADE SOILS SHOULD BE COMPACTED TO A MINIMUM 95% AND BELOW THAT A MINIMUM OF 90% PER ASTM D1557.

IN LIEU OF USING NATIVE MATERIAL IN PAVED AREAS, THE USE OF A SLURRY BACKFILL MAY BE SUBSTITUTED. SAND SLURRY SHALL CONSIST OF 2 SACK PORTLAND CEMENT (CLASS 200-E-200) PER CUBIC YARD OF SAND SLURRY MIX. THE CONTRACTOR IS RESPONSIBLE FOR DISPOSAL OF ANY EXCESS BACKFILL MATERIAL FROM THE SITE.

WARNING TAPE NOTES (POTABLE WATER):

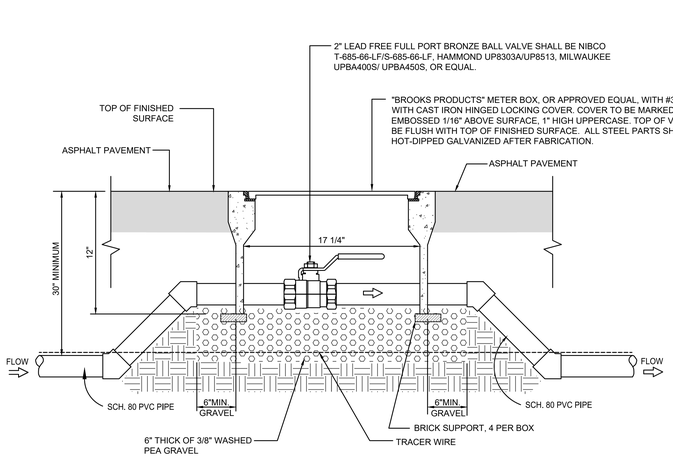
A METALLIC LINED TAPED FOR UNDERGROUND PIPES, MARKED "CAUTION BURIED WATER LINE BELOW", IN POLYETHYLENE FILM COLOR BLUE, INSTALLED ABOVE PIPE, MINIMUM 2" WIDE.

WARNING TAPE NOTES (SANITARY SEWER):

A METALLIC LINED TAPED FOR UNDERGROUND PIPES, MARKED "CAUTION BURIED SEWER LINE BELOW", IN POLYETHYLENE FILM COLOR GREEN, INSTALLED ABOVE PIPE, 6" WIDE.

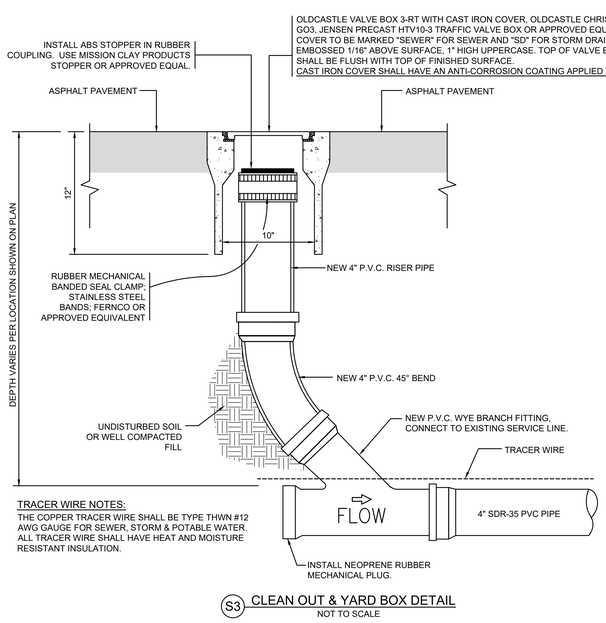
TRACER WIRE NOTES:

COPPER TRACER WIRE SHALL BE INSTALLED ON ALL NON-METALLIC PIPELINES, 2" AND GREATER, JUST ABOVE THE HORIZONTAL CENTERLINE OF THE PIPE. THE COPPER WIRE SHALL BE TYPE THWN #12 AWG GAUGE FOR SEWER, STORM & POTABLE WATER, #14 AWG GAUGE FOR IRRIGATION PIPES AND #18 AWG GAUGE FOR POLYETHYLENE GAS LINES. ALL TRACER WIRE SHALL HAVE HEAT AND MOISTURE RESISTANT INSULATION.



W2 SHUT-OFF VALVE IN YARDBOX

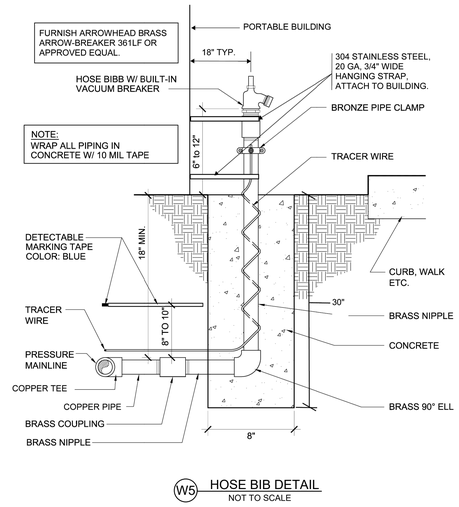
NOT TO SCALE



TRACER WIRE NOTES:
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S3 CLEAN OUT & YARD BOX DETAIL

NOT TO SCALE



W5 HOSE BIB DETAIL

NOT TO SCALE

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tBP architecture planning interiors

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COMMUNITY DAY SCHOOL
SOUTH CAMPUS
INTERIM HOUSING

2270 E AVE Q, PALMDALE, CA 93550

ANTELOPE VALLEY UNION HIGH SCHOOL DISTRICT

tBP project number:

file name:

drawn by: checked by:

date:

rev:	date:	description:

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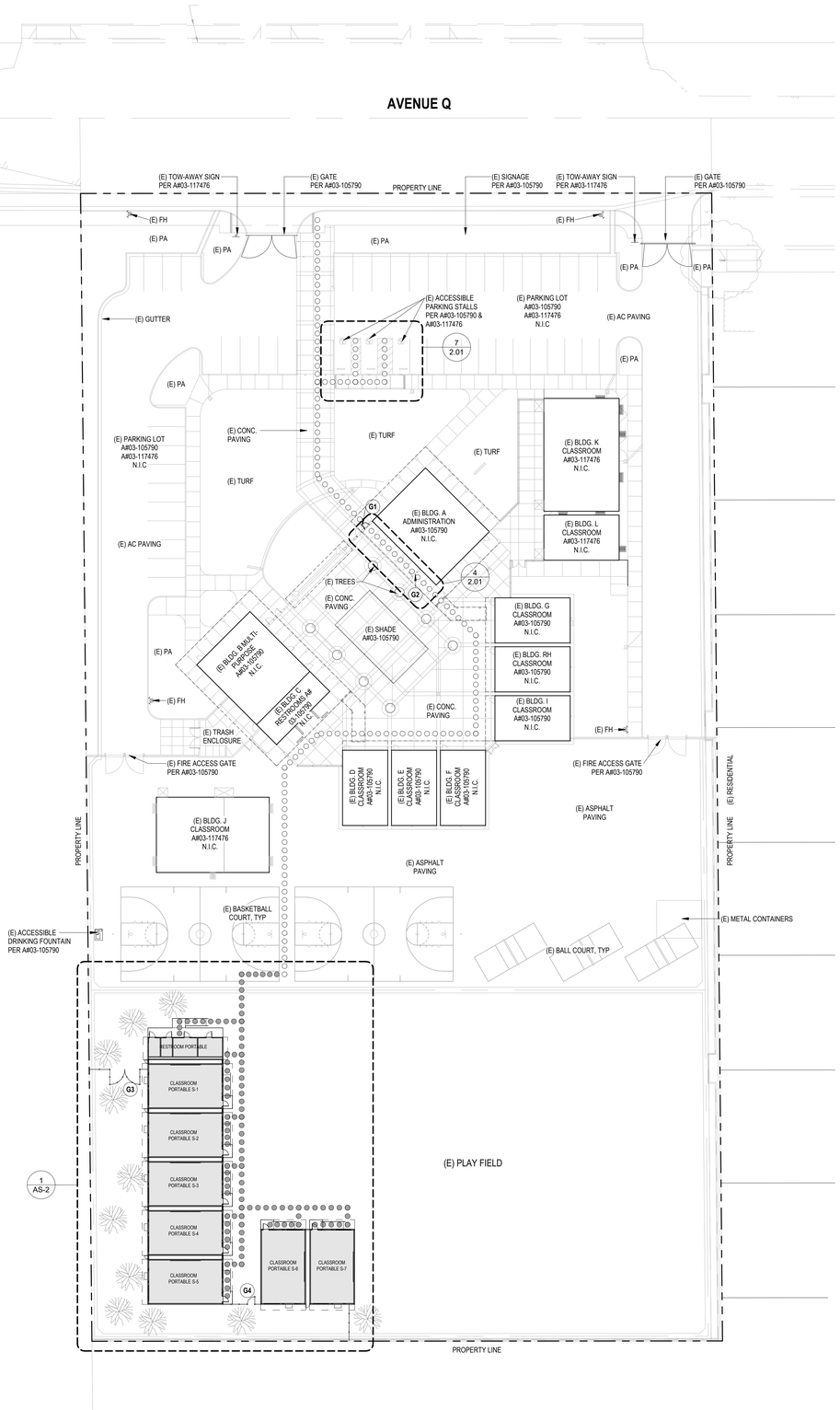
drawing title:

SITE WET UTILITY DETAIL SHEET

drawing no.:

C4.01

PLOT DATE: 5/21/2026 1:17 PM PLOT BY: Jessica Zia LAST SAVED BY: ron.canedy S:\Jobs\2757-TBP Architects\2757rc04 - Community Day School\Civil\Community Day Interim Housing C4.01 - Site Wet Utility Detail Sheet.dwg



SITE PLAN 1

SCALE: 1" = 30'-0"

0' 7.5' 15' 30' 60' NORTH

GENERAL NOTES

1. LOCATION OF UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING TO AVOID INTERCEPTING EXISTING PIPING OR CONDUITS. THE ARCHITECT IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY OTHER CONTRACTS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.

2. VERIFY ALL EXISTING AND FINISH GRADES, DIMENSIONS AND SITE CONDITIONS BEFORE COMMENCING WORK AND REPORT ANY DISCREPANCIES TO THE ARCHITECT.

3. ALL ITEMS ARE NEW UNLESS NOTED OTHERWISE AS (E).

SITE PLAN LEGEND

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

   DURING CONSTRUCTION, IF P.O.T. ITEMS WITHIN SCOPE OF THE PROJECT REPRESENTED AS CBC COMPLIANT ARE FOUND TO BE NON-CONFORMING BEYOND CONVENTIONAL INDUSTRY TOLERANCES, THE ITEMS SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

2. THE ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAX SLOPE OR VERTICAL LEVEL CHANGE NOT EXCEEDING 1/4" MAX AND AT LEAST 48" WIDE. SURFACE IS SLIP RESISTANT, STABLE, FIRM AND SMOOTH. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED.

3. CONTRACTOR TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED OR WILL BE REMOVED UNDER THIS PROJECT, AND PATH OF TRAVEL COMPLIES WITH CBC 1133B. VERIFY ALL EXISTING AND FINISH GRADES, DIMENSIONS AND SITE CONDITIONS BEFORE COMMENCING WORK AND REPORT ANY DISCREPANCIES TO THE ARCHITECT.

4. LOCATIONS OF ALL UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING TO AVOID INTERCEPTING EXISTING PIPING OR CONDUITS. THE ARCHITECT IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY OTHER CONTRACTS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.

5. VERIFY ALL EXISTING AND FINISH GRADES, DIMENSIONS AND SITE CONDITIONS BEFORE COMMENCING WORK AND REPORT ANY DISCREPANCIES TO THE ARCHITECT.

- EXISTING BUILDING(S) NOT PART OF THIS CONTRACT
- AC PAVING, SEE CIVIL DRAWINGS
- (E) PLANTING AREA, PROTECTION IN PLACE
- (E) PROPERTY LINE
- (E) PATH OF TRAVEL, A #03-105790 & A #03-117476
- PATH OF TRAVEL
- (E) TREE, PROTECT IN PLACE

GATE SCHEDULE

NO.	CONDITION	SIZE= W X H	MATERIAL	FINISH	DETAILS	HARDWARE SET	PANIC HARDWARE
G1	NEW	3'-6" X 7'-0" SINGLE	DM	FF	5 / 2.01	-	YES
G2	EXISTING	3'-6" X 7'-0" SINGLE	DM	FF	-	-	YES
G3	NEW	16'-0" X 6'-0" PAIR	CL	FF	16 / 2.01	-	NO
G4	NEW	4'-0" X 6'-0" SINGLE	CL	FF	15 / 2.01	-	NO

NOTES:

1. COORDINATE WITH THE DISTRICT FOR DECORATIVE METAL FENCE AND GATE PAINT COLOR.
2. PANIC HARDWARE 32D SARGENT (EXIT DEVICE) W/ UTILITY PULL TRIM
3. ALL GATES/DOORS IN PATH OF TRAVEL TO COMPLY WITH 2025 CBC 11B-404
4. PROVIDE 525 DEFLECTOR TO EACH GATE
5. GATES SHALL COMPLY WITH SFM STANDARD 12-10-3, SECTION 12-10-302
   (A) THE CROSS-BAR SHALL EXTEND ACROSS NO LESS THAN ONE-HALF THE WIDTH OF THE DOOR/GATE.
   (B) THE ENDS OF THE CROSS-BAR SHALL BE CURVED, GUARDED, OR OTHERWISE DESIGNED TO PREVENT CATCHING ON THE CLOTHING OF PERSONS DURING EGRESS.

ABBREVIATIONS

CL CHAIN LINK
DM DECORATIVE METAL
FF FACTORY FINISH

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT

THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR THE 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 NON-COMPLIANT WITH THE CBC HAVE 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 BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE INDICATED IN THESE CONSTRUCTION DOCUMENTS.

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

DIVISION OF THE STATE ARCHITECT
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PH: (213) 897-3995
DSA Application #
DSA File #
agency

tBP architecture planning interiors

LICENSED ARCHITECT LUNG L. GUEGO No. C-34187 STATE OF CALIFORNIA 4-30-2027

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COMMUNITY DAY SCHOOL SOUTH CAMPUS INTERIM HOUSING

2270 E AVE Q, PALMDALE, CA 93550

ANTELOPE VALLEY UNION HIGH SCHOOL DISTRICT

tBP project number: 24009.00

file name:

drawn by: checked by:

date: Issue Date

rev:	date:	description:

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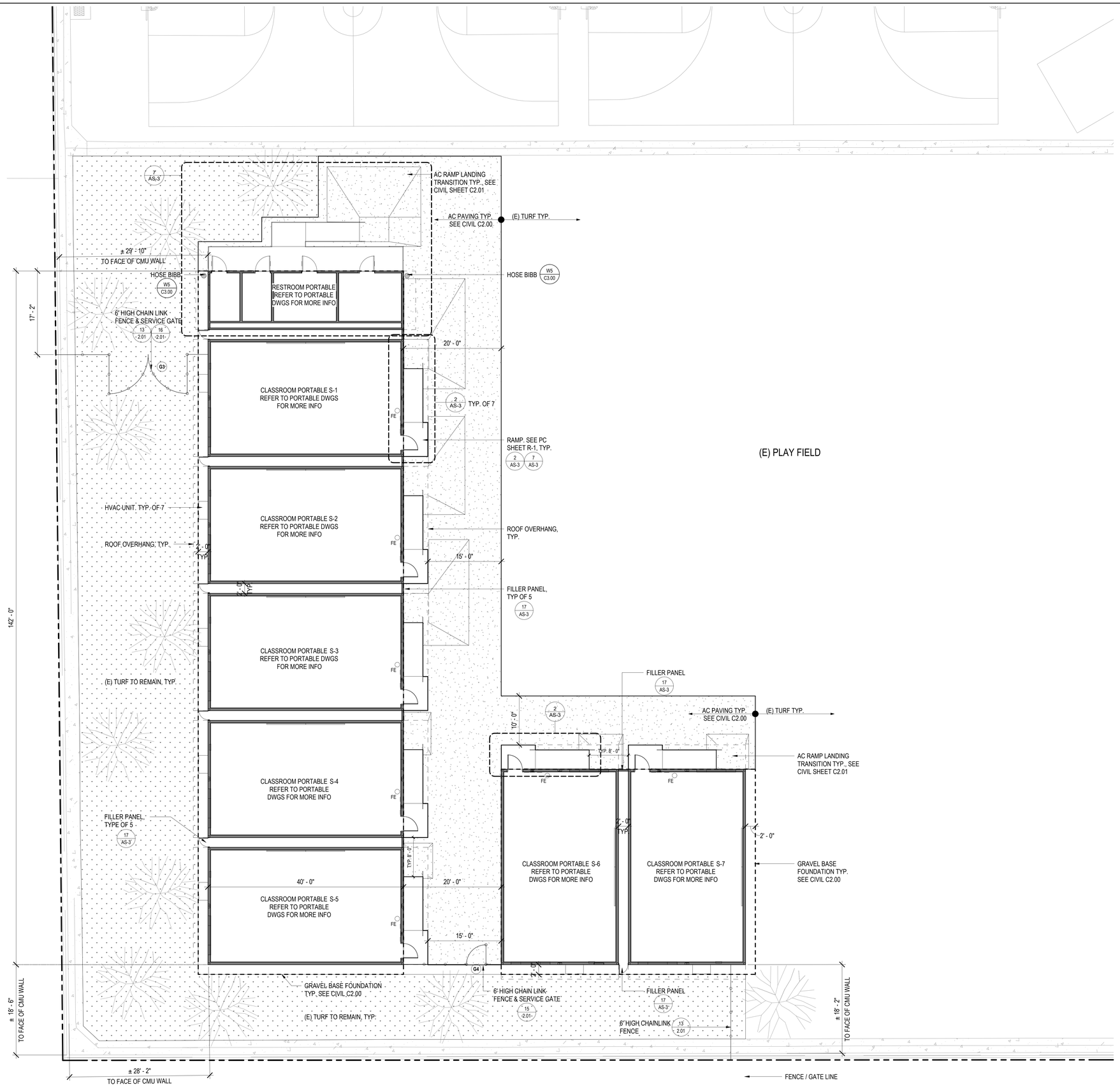
drawing title:

OVERALL SITE PLAN

drawing no.:

AS-1

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SHEET NOTES

1. REFER TO T-2 FOR ABBREVIATIONS, GENERAL NOTES, AND TYPICAL SYMBOLS.
2. FOR ADDITIONAL SITE INFORMATION REFER TO AS-1.
3. ALL ITEMS ARE NEW UNLESS NOTED OTHERWISE AS (E).
4. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
5. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION
6. REFER TO PC DRAWINGS FOR ADDITIONAL INFORMATION.

LEGEND

- PORTABLE BUILDING(S)
- AC PAVING
- PROPERTY LINE
- (E) TREE, PROTECT IN PLACE

ENLARGED SITE PLAN 1

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

0' 2.5' 5' 10' 20'

NORTH

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tBP
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LICENSED ARCHITECT
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EXP. 4-30-2021
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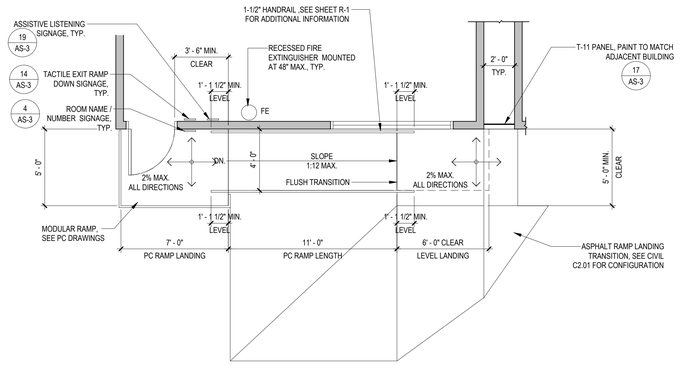
ENLARGED SITE PLAN

drawing no.:

AS-2

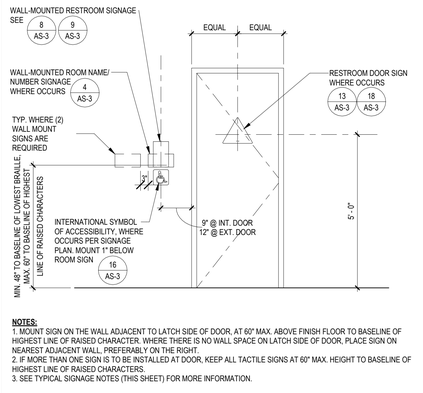
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NOTE:
1. FOR CLASSROOM RAMP CONSTRUCTION, SEE PC A# 04-122029



TYP. CLASSROOM PORTABLE - ENLARGED PLAN

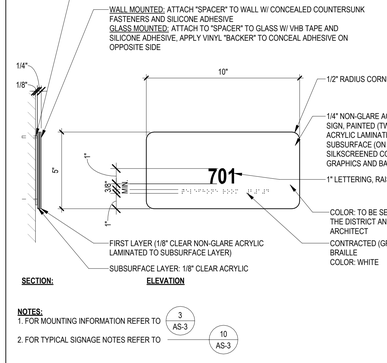
SCALE: 1/4" = 1'-0" | 2



NOTES:
1. MOUNT SIGN ON THE WALL ADJACENT TO LATCH SIDE OF DOOR, AT 60" MAX. ABOVE FINISH FLOOR TO BASELINE OF HIGHEST LINE OF RAISED CHARACTER. WHERE THERE IS NO WALL SPACE ON LATCH SIDE OF DOOR, PLACE SIGN ON NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT.
2. IF MORE THAN ONE SIGN IS TO BE INSTALLED AT DOOR, KEEP ALL TACTILE SIGNS AT 60" MAX. HEIGHT TO BASELINE OF HIGHEST LINE OF RAISED CHARACTERS.
3. SEE TYPICAL SIGNAGE NOTES (THIS SHEET) FOR MORE INFORMATION.

SIGNAGE LOCATION LEGEND

SCALE: 1/2" = 1'-0" | 3



SECTION: **ELEVATION**

NOTES:
1. FOR MOUNTING INFORMATION REFER TO 3 AS-3
2. FOR TYPICAL SIGNAGE NOTES REFER TO 10 AS-3

ROOM NAME/ NUMBER SIGNAGE

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

SIGNAGE GENERAL NOTES:

1. SIGNS SHALL COMPLY WITH SECTION 11B-703.

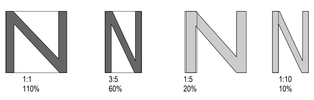
2. CHARACTER TYPE: CHARACTERS ON SIGN SHALL BE RAISED 1/32" MINIMUM AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 CONTRACTED BRAILLE.

3. CHARACTER SIZE: RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8" AND A MAXIMUM OF 2" HIGH BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I".

4. FINISH AND CONTRAST: CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND MUST BE 70% MINIMUM AND HAVE A NON-GLARE FINISH PER SECTION 11B-703.5.1.

5. PROPORTIONS: CHARACTERS ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO OF BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH-TO-HEIGHT RATIO OF BETWEEN 1:5 AND 1:10. 11B-703.5.4

LETTERS AND NUMBERS MEASURED MUST BE UPPERCASE. AFTER CHOOSING A TYPESTYLE TO TEST, BEGIN BY PRINTING THE LETTERS "I", "X", AND "O" AT 1 INCH HIGH. PLACE THE TEMPLATE'S 1:1 SQUARE OVER THE "X" OR "O", WHICHEVER IS NARROWER. IF THE CHARACTER IS NOT WIDER THAN 1 INCH NOR NARROWER THAN THE 3:5 RECTANGLE, THE PROPORTIONS ARE CORRECT. USE THE 1:5 RECTANGLE TO DETERMINE IF THE STROKE OF THE "I" IS TOO BROAD, AND THE 1:10 RECTANGLE TO SEE IF IT IS TOO NARROW.

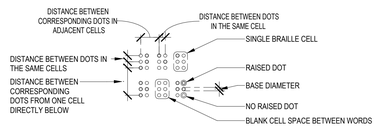


BRAILLE

1. BRAILLE SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH SECTIONS 11B-703.3 AND 11B-703.4.

2. DIMENSIONS AND CAPITALIZATION - BRAILLE DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHALL COMPLY WITH TABLE 11B-703.3.1 AND SECTION 11B-703.4. THE INDICATION OF AN UPPERCASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE THE FIRST WORD OF SENTENCES, PROPER NOUNS AND NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS, AND ACRONYMS.

3. POSITION - BRAILLE SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT IN A HORIZONTAL FORMAT, FLUSH LEFT OR CENTERED. IF TEXT IS MULTI-LINED, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT. BRAILLE SHALL BE SEPARATED 3/8 INCH (9.5 MM) MINIMUM AND 1/2 INCH (12.7 MM) MAXIMUM FROM ANY OTHER TACTILE CHARACTERS AND 3/8 INCH MINIMUM FROM RAISED BORDERS AND DECORATIVE ELEMENTS. SECTION 11B-703.3.2



BRAILLE DIMENSIONS - TABLE 11B-703.3.1

MEASUREMENT RANGE	MIN. IN INCHES/ MAX. IN INCHES
DOT BASE DIAMETER	0.059 (1.5 MM) TO 0.063 (1.6 MM)
DISTANCE BETWEEN TWO DOTS IN THE SAME CELL	0.100 (2.5 MM)
DISTANCE BETWEEN CORRESPONDING DOTS IN ADJACENT CELLS	0.300 (7.6 MM)
DOT HEIGHT	0.025 (0.6 MM) TO 0.037 (0.9 MM)
DISTANCE BETWEEN CORRESPONDING DOTS FROM ONE CELL DIRECTLY BELOW	0.395 (10 MM) TO 0.400 (10.2 MM)

PICTOGRAMS:

PICTOGRAMS SHALL COMPLY WITH SECTION 11B-703.6. PICTOGRAMS SHALL HAVE A FIELD HEIGHT OF 6 INCHES (152 MM) MINIMUM. CHARACTERS AND BRAILLE SHALL BE LOCATED OUTSIDE PICTOGRAM FIELD.

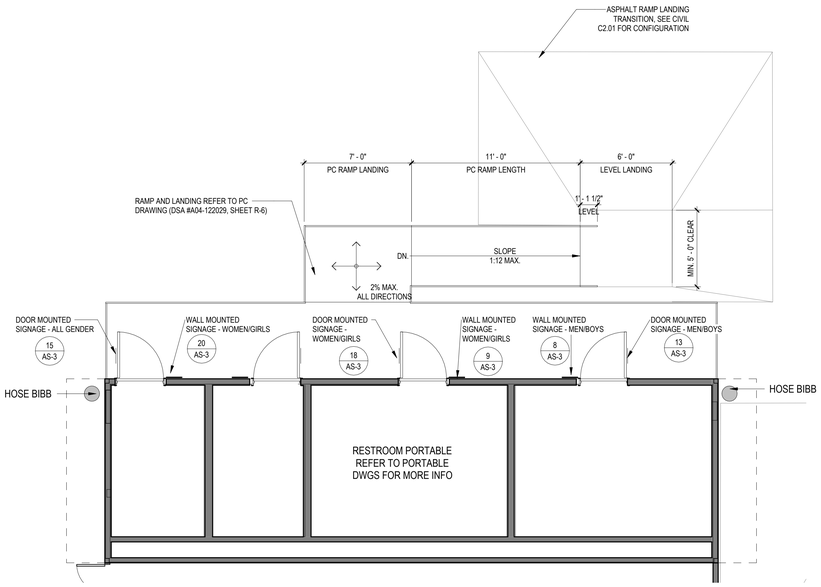
FINISH AND CONTRAST: PICTOGRAMS AND THEIR FIELD SHALL HAVE A NON-GLARE FINISH. THEY SHALL CONTRAST WITH THEIR FIELD WITH EITHER A LIGHT PICTOGRAM ON DARK FIELD OR DARK PICTOGRAM ON LIGHT FIELD.

TEXT DESCRIPTORS: PICTOGRAMS SHALL HAVE CORRESPONDING TEXT DESCRIPTION DIRECTLY BELOW THE PICTOGRAM FIELD. TEXT DESCRIPTORS SHALL COMPLY WITH SECTIONS 11B-703.2, 11B-703.3, AND 11B-703.4.

SIGNAGE GENERAL NOTES

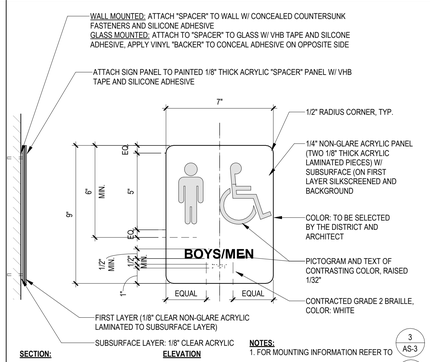
SCALE: 3" = 1'-0" | 10

NOTE:
1. FOR CLASSROOM RAMP CONSTRUCTION, SEE PC A# 04-122029



RESTROOM PORTABLE - ENLARGED PLAN

SCALE: 1/4" = 1'-0" | 7

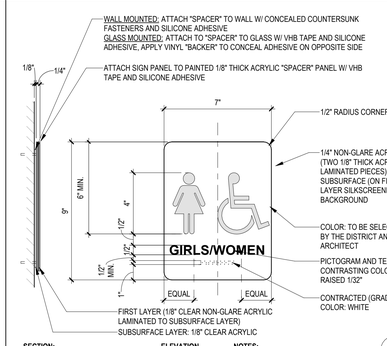


SECTION: **ELEVATION**

NOTES:
1. FOR MOUNTING INFORMATION REFER TO 3 AS-3
2. FOR TYPICAL SIGNAGE NOTES REFER TO 10 AS-3
3. INDICATE "MEN" AT STAFF RESTROOM IN BLDG A.

WALL MOUNTED SIGNAGE - MEN/BOYS

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

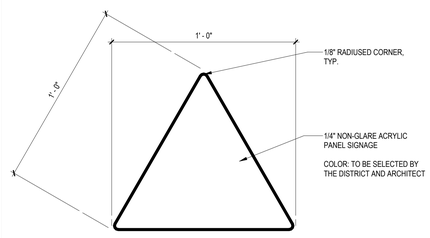


SECTION: **ELEVATION**

NOTES:
1. FOR MOUNTING INFORMATION REFER TO 3 AS-3
2. FOR TYPICAL SIGNAGE NOTES REFER TO 10 AS-3
3. INDICATE "WOMEN" AT STAFF RESTROOM IN BLDG A.

WALL MOUNTED SIGNAGE - WOMEN/GIRLS

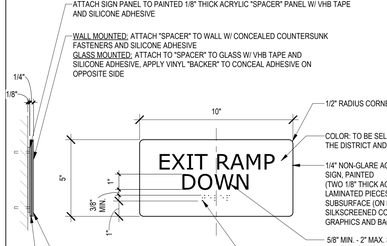
SCALE: 3" = 1'-0" | 9



NOTES:
1. SIGNAGE COMPLIES WITH MOUNTING HEIGHT AS SHOWN ON 3/-.
2. COLOR CONTRASTS WITH DOOR IT IS MOUNTED ON.

DOOR MOUNTED SIGNAGE - MEN/BOYS

SCALE: 3" = 1'-0" | 13

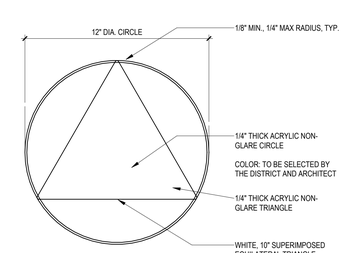


SECTION: **ELEVATION**

NOTES:
1. FOR MOUNTING INFORMATION REFER TO 3 AS-3
2. FOR TYPICAL SIGNAGE NOTES REFER TO 10 AS-3

TACTILE RAMP EXIT SIGNAGE

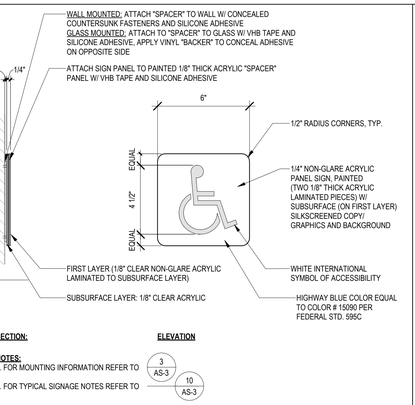
SCALE: 3" = 1'-0" | 14



NOTES:
1. SIGNAGE COMPLIES WITH MOUNTING HEIGHT AS SHOWN ON 3/-.
2. COLOR CONTRASTS WITH DOOR IT IS MOUNTED ON.

DOOR MOUNTED SIGN - WOMEN/GIRLS

SCALE: 3" = 1'-0" | 15

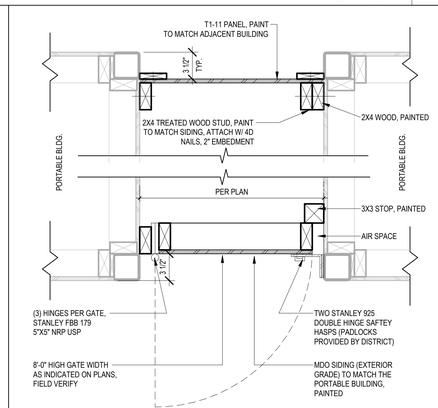


SECTION: **ELEVATION**

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2. FOR TYPICAL SIGNAGE NOTES REFER TO 10 AS-3

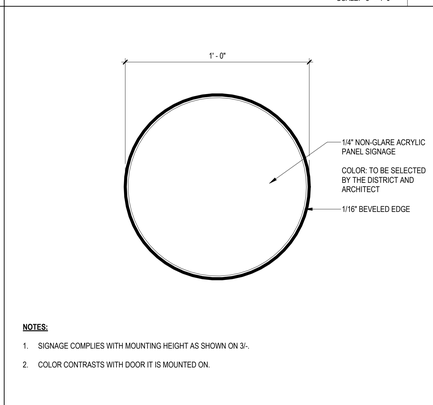
INTL. SYMBOL ACCESSIBILITY

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



FILLER PANEL

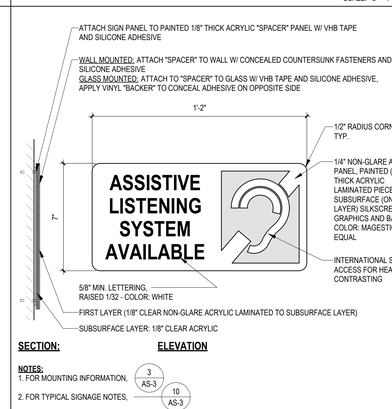
SCALE: 1 1/2" = 1'-0" | 17



NOTES:
1. SIGNAGE COMPLIES WITH MOUNTING HEIGHT AS SHOWN ON 3/-.
2. COLOR CONTRASTS WITH DOOR IT IS MOUNTED ON.

DOOR MOUNTED SIGN - WOMEN/GIRLS

SCALE: 3" = 1'-0" | 18

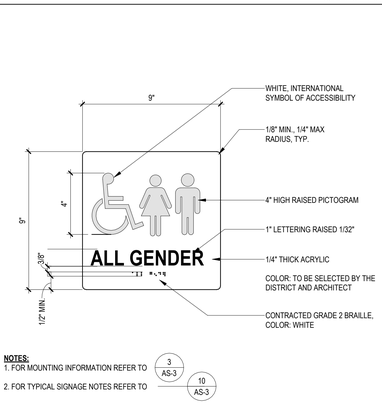


SECTION: **ELEVATION**

NOTES:
1. FOR MOUNTING INFORMATION, 3 AS-3
2. FOR TYPICAL SIGNAGE NOTES, 10 AS-3

ASSISTIVE LISTENING DEVICE SIGN

SCALE: 3" = 1'-0" | 19



NOTES:
1. FOR MOUNTING INFORMATION REFER TO 3 AS-3
2. FOR TYPICAL SIGNAGE NOTES REFER TO 10 AS-3

WALL MOUNTED SIGNAGE - WOMEN/GIRLS

SCALE: 3" = 1'-0" | 20

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ANTELOPE VALLEY UNION HIGH SCHOOL DISTRICT

tBP project number: 24009.00
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date: Issue Date

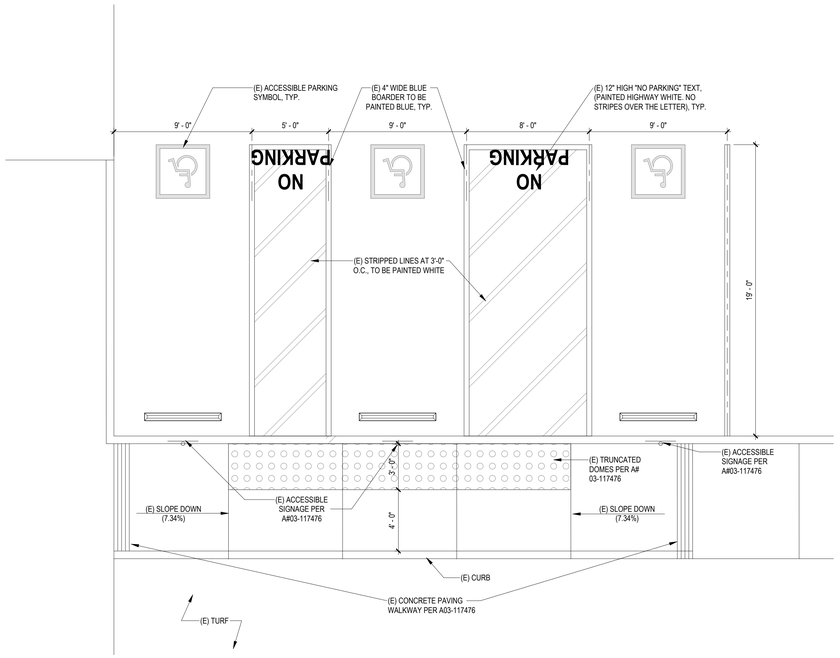
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drawing title:
RAMP PLAN & SIGNAGE DETAILS

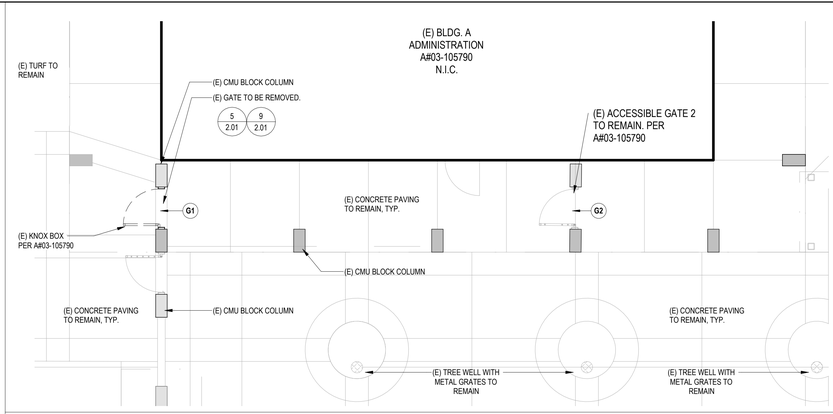
drawing no.:
AS-3

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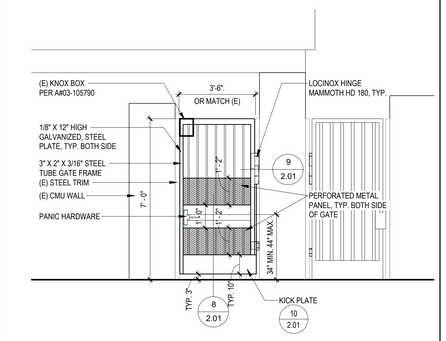
(E) ACCESSIBLE PARKING STALLS & SIGNAGE (PER A#03-105790 & A#03-117476)

SCALE: 1/4" = 1'-0" | 7



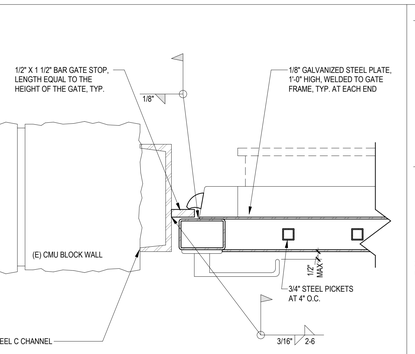
ACCESSIBLE ENTRY GATE - ENLARGED PLAN

SCALE: 3/16" = 1'-0" | 4



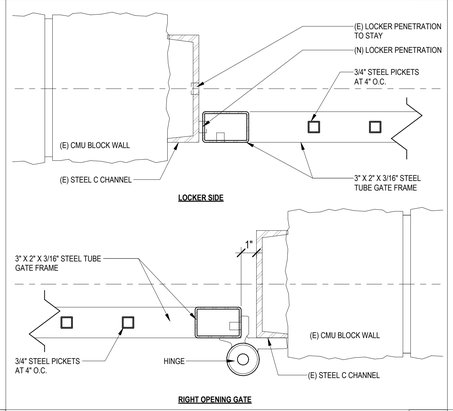
GATE 1 ELEVATION

SCALE: 3/8" = 1'-0" | 5



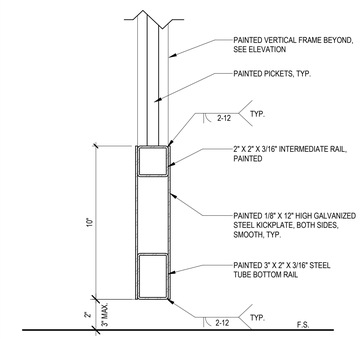
PANIC HARDWARE AT GATE

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



HINGE AT GATE

SCALE: 3" = 1'-0" | 9

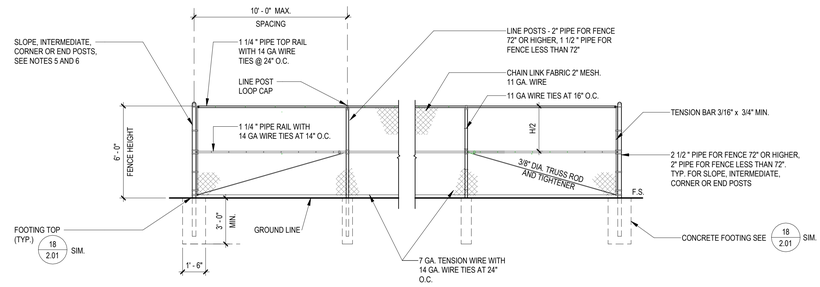


KICK PLATE AT GATE

SCALE: 3" = 1'-0" | 10

NOT A PART OF DSA SS REVIEW
PER IR A-22, (02.03.2026).

FENCE POST FOOTING SCHEDULE	
FENCE HEIGHT	FOOTING MIN. DEPTH, D
TO 6'-0"	3'-0"

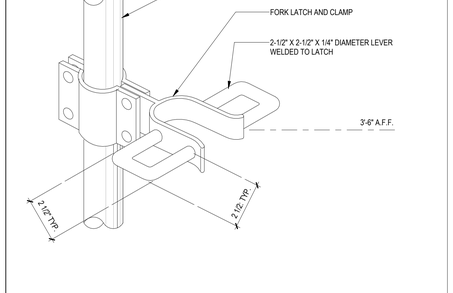


NOTES:

1. FABRIC SHALL HAVE KNUCKLED FINISH ON BOTH TOP AND BOTTOM EDGES.
2. ALL TIES SHALL BE GALVANIZED STEEL.
3. TOP CAP SHALL BE SECURED TO POST USING 1/4-INCH RIVET.
4. CORNER OR SLOPE POSTS SHALL BE INSTALLED WHEN THE CHANGE IN DEFLECTION ANGLE IS 30 DEGREES OR MORE AT CORNER OR SLOPE POINTS. CONSTRUCT SLOPE POSTS AS THOUGH THEY WERE CORNER POSTS.
5. INTERMEDIATE POSTS SHALL BE PROVIDED WHEN THE DISTANCE BETWEEN CORNER OF SLOPE POSTS EXCEEDS 300 FEET. THEY SHALL BE CONSTRUCTED AS THOUGH THEY WERE CORNER OR SLOPE POSTS.
6. THREADS OF ALL 3/8-INCH ROUND TRUSS RODS SHALL BE PEENDED AFTER INSTALLATION.
7. WHEN TOP RAIL IS OMITTED BY PLAN, PROVIDE 7-GAGE TENSION WIRE WITH 11-GAGE FABRIC TIES OR HOG RINGS SPACED AT 24-INCH INTERVALS.
8. TENSION WIRE SHALL BE SECURELY FASTENED TO THE TERMINAL POSTS AND BE TAUT AND FREE OF SAG.
9. THE FABRIC SHALL BE PLACED ON THE OUTWARD FACING SIDE OF THE POSTS, STRETCHED TAUT, AND FASTENED SECURELY.

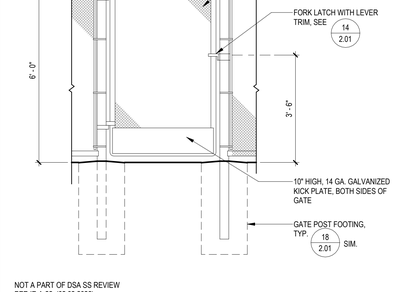
TYPICAL CHAIN LINK FENCE

SCALE: 1/4" = 1'-0" | 13



FORK LATCH WITH LEVER TRIM

SCALE: N.T.S | 14

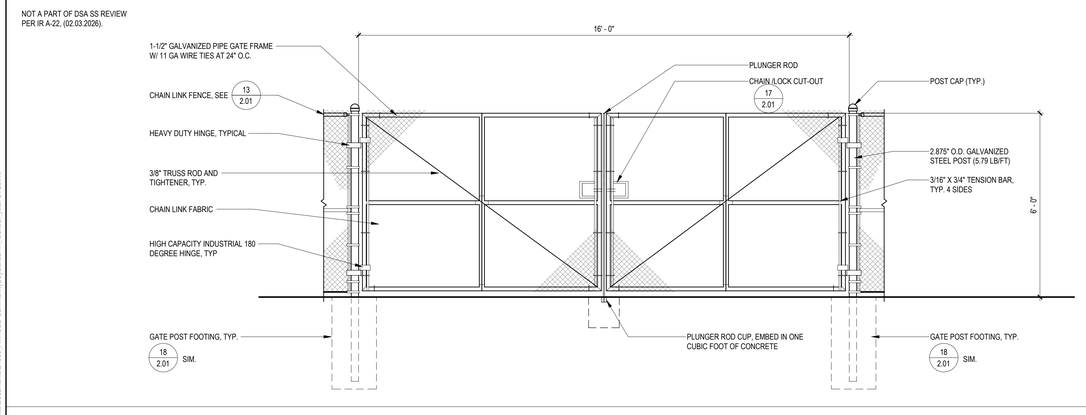


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SERVICE GATE

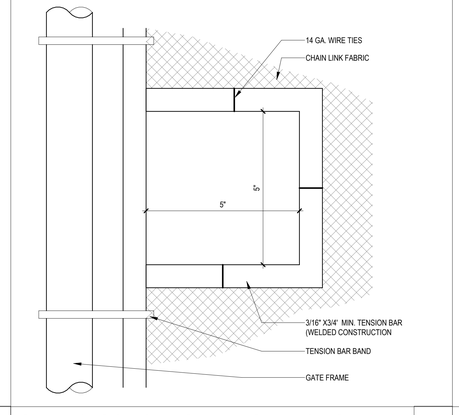
SCALE: 1/2" = 1'-0" | 15

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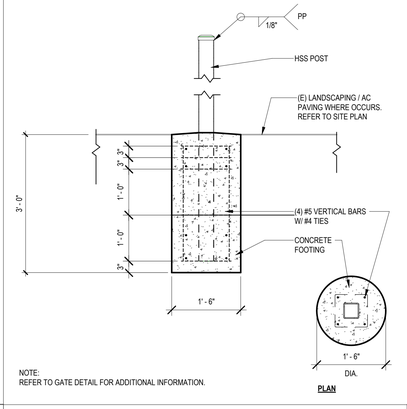
CHAIN LINK SERVICE GATE

SCALE: 1/2" = 1'-0" | 16



CHAIN / LOCK CUT-OUT AT SERVICE GATE

SCALE: 6" = 1'-0" | 17



6' HIGH FENCE & GATE POST FOOTING

SCALE: 3/4" = 1'-0" | 18

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GENERAL NOTES

1. ALL COMMUNICATIONS WORK SHALL BE COORDINATED WITH THE COMMUNICATION SYSTEMS EQUIPMENT MANUFACTURER AND THE SCHOOL DISTRICT MAINTENANCE DEPARTMENT PRIOR TO ROUGH –IN AND INSTALLATION OF ANY AND ALL COMMUNICATION SYSTEM DEVICES AND RELATED CONDUIT AND WIRE.

2. THE CONTRACTOR SHALL SECURE AND PAY FOR PERMITS AND FEES NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK, INCLUDING ALL CHARGES BY THE LOCAL GOVERNMENT AGENCIES AND THE UTILITY COMPANIES.

3. ALL OUTLET LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION.

4. SEE SINGLE LINE DIAGRAM FOR CONDUIT AND CONDUCTOR SIZES, PANELS, TRANSFORMERS, MOTOR CONTROL CENTERS, MECHANICAL EQUIPMENT, ETC. HOMERUNS TO PANELS MAY NOT BE SHOWN ON PLANS BUT ARE PART OF THIS CONTRACT.

5. EXACT LOCATION OF ALL DEVICES SHALL BE AS INDICATED ON THE ARCHITECTURAL PLANS.

6. UNLESS OTHERWISE NOTED, MOUNTING HEIGHTS INDICATED ON ELECTRICAL OUTLETS ARE FROM FINISHED FLOOR TO CENTER OF OUTLETS.

7. NO CONDUIT SHALL BE RUN HORIZONTALLY IN CONCRETE FLOOR SLABS.

8. ALL FINAL CONNECTIONS TO OWNER–FURNISHED EQUIPMENT SHALL BE MADE BY THIS CONTRACTOR.

MEP EQUIPMENT ANCHOARAGE NOTE

ALL MECHANICAL, PLUMBINNG, 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 2025 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7–16 CHAPTERS 13, 26 AND 30:

A. ALL PERMANENT EQUIPMENT AND COMPONENTS
B. 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.
C. TEMPORARY, MOVABLE EQUIPMENT THAT 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 REQUIREDTO BE RESTRAINED IN A MANNER APPROVED BY DSA.

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

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

MEP DISTRIBUTION SYSTEM BRACING NOTE FOR PIPING, DUCTWORK, AND ELECTRICAL CONDUIT:

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2025 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. THE MEP DESIGN PROFESSIONAL ENGINEER RESPONSIBLE FOR CONTENT ON THESE SHEETS HAS VERIFIED THAT THE DESIGN METHODS IDENTIFIED BELOW ARE IN ACCORDANCE WITH DSA IR 16–13.

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

MP☐ MD☐ PP☐ E ☑ OPTION 1: PROJECT SPECIFIC DESIGN.

MP☐ MD☐ PP☐ E ☐ OPTION 2: DESIGN BASED ON OSHPD OPM, WITHIN PROJECT SUBMITTAL.

MP☐ MD☐ PP☐ E ☐ OPTION 3: DESIGN BASED ON OSHPD OPM, DEFERRED SUBMITTAL.

10. USE OF POWER DRIVEN CONCRETE FASTENERS:

USE OF POWER DRIVEN CONCRETE FASTENERS FOR TENSION LOADS IS LIMITED TO SUPPORT OF MINOR LOADS LIKE ACOUSTICAL CEILINGS, DUCT WORK, CONDUIT.

ALLOWABLE LOADS – IN GENERAL, LOADS SHOULD BE LIMITED TO LESS THAN 100 POUNDS. HOWEVER, GREATER LOADS MAY BE PERMITTED FOR SPECIAL CASES WHEN APPROVED BY THE CHECKING SUPERVISOR OR FIELD ENGINEER.

TESTING – THE OPERATOR, TOOL AND FASTENER SHALL BE PRE–QUALIFIED BY THE PROJECT INSPECTOR. HE SHALL OBSERVE THE TESTING OF THE FIRST 10 FASTENER INSTALLATIONS. A TEST "PULL–OUT" LOAD OF NOT LESS THAN TWICE THE DESIGN LOAD, OR 200 POUNDS, WHICHEVER IS GREATER, SHALL BE APPLIED TO THE PIN IN SUCH A MANNER AS NOT TO RESIST THE SPALLING TENDENCY OF THE CONCRETE SURROUNDING THE PIN. THEREAFTER, RANDOM TESTS UNDER THE PROJECT INSPECTOR'S SUPERVISION SHALL BE MADE OF APPROXIMATELY 1 IN 10 PINS, EXCEPT THAT WHEN THE DESIGN LOAD EXCEEDS 100 POUNDS, ONE HALF OF THE PINS SHALL BE TESTED, ALL INSTALLATIONS MUST BE TESTED AND UNFAIR PINS REPLACED.

THESE REQUIREMENTS ARE TO BE NOTED ON THE PLANS, OR IN THE SPECIFICATIONS.

11. ALL UNDERGROUND UTILITIES OR STRUCTURES REPORTED BY THE OWNER OR OTHERS AND THOSE SHOWN ON THE RECORDS EXAMINED ARE INDICATED WITH THEIR APPROXIMATE LOCATION AND EXTENT. THE OWNER BY ACCEPTING THESE PLANS OR PROCEEDING WITH IMPROVEMENTS PERSUANT THERETO AGREES TO ASSUME LIABILITY AND TO HOLD THE ENGINEER HARMLESS FOR ANY DAMAGES RESULTING FROM THE EXISTENCE OF UNDERGROUND UTILITIES OR STRUCTURES NOT REPORTED TO THE ENGINEER; NOT INDICATED ON THE PUBLIC RECORDS EXAMINED; LOCATED AT VARIANCE WITH THAT REPORTED OR SHOWN ON RECORDS EXAMINED. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES FOUND AT THE SITE. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK.

12. THE CONTRACTOR SHALL VISIT THE SITE INCLUDING SPECIFICALLY ALL AREAS INDICATED ON THE DRAWINGS. HE SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THESE EXISTING CONDITIONS AND BY SUBMITTING A BID ACCEPTS CONDITIONS UNDER WHICH HE WILL BE REQUIRED TO PERFORM HIS WORK.

13. SHUT DOWN OF EXISTING ELECTRICAL SYSTEMS WILL NOT BE ALLOWED. SCHEDULED SHUT DOWNS SHALL BE COORDINATED WITH THE SCHOOL DISTRICT 48 HOURS IN ADVANCE. THIS CONTRACTOR SHALL COORDINATE ALL COMPONENTS AND WIRING TYPES TO 15. MATCH EXISTING INTERCOM AND FIRE SYSTEM WITH THE SCHOOL DISTRICT PRIOR TO BID. AND INCLUDE ALL COSTS FOR A COMPLETE OPERABLE SYSTEM EXPANSION.

16. ALL EXPOSED CONDUIT SHALL BE PAINTED TO MATCH EXISTING FINISH.

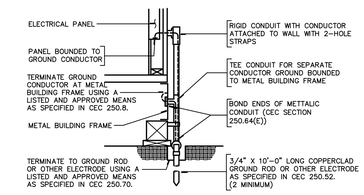
17. THE CONTRACTOR SHALL NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE FIELD VERIFIED.

18. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER THE SHUT–DOWN SCHEDULE AND TIME REQUIRED PRIOR TO DEMOLITION AND INSTALLATION OF NEW CONDUIT, WIRE AND PANELBOARDS FROM THE EXISTING SYSTEM. THE SHUT–DOWN SHALL BE SCHEDULED IN SUCH A MANNER TO MINIMIZE INTERRUPTION OF REGULAR ACTIVITIES. THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL PREMIUM TIME REQUIRED FOR THE NEW CONNECTIONS. (NO EXCEPTION WILL BE TAKEN DURING NORMAL BUSINESS HOURS).

18. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY FOR ALL TRENCHING, BACKFILLING SAW CUTTING AND REFINISHING OF SURFACES. FINISHES TO MATCH EXISTING. (NEW EXPOSED CONDUIT TO BE PAINTED TO MATCH EXISTING FINISH).

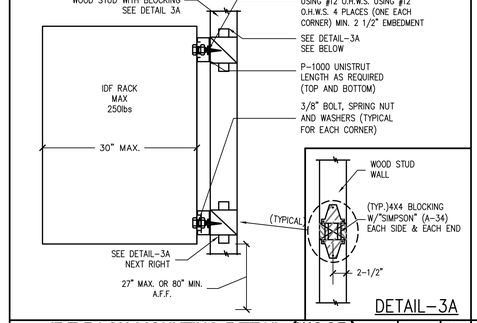
ELECTRICAL SYMBOL LIST

SYMBOL	DESCRIPTION
(R)	DASHED SYMBOL WITH "R" ADJACENT INDICATES EXISTING EQUIPMENT TO BE REMOVED.
(E)	DASHED SYMBOL WITH "E" ADJACENT INDICATES EXISTING EQUIPMENT TO REMAIN.
—E—	EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
—ER—	EXISTING CONDUIT AND CONDUCTORS TO BE DISCONNECTED AND COMPLETELY REMOVED.
—EX—	EXISTING CONDUIT TO REMAIN, CONDUCTORS TO BE DISCONNECTED AND COMPLETELY REMOVED.
—EN—	EXISTING CONDUIT WITH NEW CONDUCTORS. CROSS LINES ON CONDUIT RUNS INDICATE NUMBER OF #12 WIRES CONTAINED THEREIN. TWO #12 ARE INDICATED WHEN CROSS LINES ARE NOT SHOWN. NUMERALS ADJACENT TO CROSS LINES ON CONDUIT RUNS INDICATE SIZE OF CONDUCTORS IN LIEU OF #12.
	CONDUIT RUN, CONCEALED IN CEILING, WALLS, OR UNDER FLOOR.
	CONDUIT RUN EXPOSED ON ROOF.
	CONDUIT RUN UNDERGROUND.
	CROSS LINES ON CONDUIT RUNS INDICATED NUMBER #12 WIRES CONTAINED THEREIN. TWO #12 ARE INDICATED WHEN CROSS LINES ARE NOT SHOWN.
B–1,3 / Sk	CONDUIT HOME RUN TO PANELBOARD. LETTER AND NUMERALS INDICATE ELECTRICAL PANEL AND CIRCUIT NUMBER.
	LIGHTING KEYED SWITCH.
	MOLDED CASE CIRCUIT BREAKER (SINGLE LINE DIAGRAM).
	GROUND.
	COMBINATION VISUAL STROBE ANNUNCIATOR AND SOUNDER, MOUNT AT +80" OR 6" BELOW CEILING WHICHEVER IS LOWER.
H WP	FIRE ALARM HORN, WEATHERPROOF (TO MATCH EXISTING) MOUNT AT 96".
F	FIRE ALARM MANUAL PULL STATION, (TO MATCH EXISTING) MOUNT AT 48".
?	SMOKE DETECTOR CEILING MOUNTED.
	HEAT DETECTOR ATTIC MOUNTED.
	TELEPHONE/INTERCOM STATION HAND SET AND OUTLET WALL MOUNTED TYPE MOUNTED AT +48" AFF UNLESS OTHERWISE NOTED.
S	INTERCOM SPEAKER AND BACKBOX. TO MATCH EXISTING. MOUNT AT +7'–6".
S WP	INTERCOM SPEAKER, WEATHERPROOF (TO MATCH EXISTING) MOUNT AT 96".
	(2) CAT 6 DATA OULETS MOUNTED NEXT TO CONVENIENCE OUTLET MOUNTED AT +18" UNLESS OTHERWISE NOTED.
C	(2) CAT 6 DATA OULETS CEILING MOUNTED AT CENTER OF ROOM.
F1	FIRE ALARM CONDUIT, 3/4"C. WITH REQUIRED WIRING CONTAINED THEREIN.
D2	DATA SYSTEM CONDUIT 1"C WITH (2) CAT 6 DATA CABLES.
T1	TELEPHONE SYSTEM CONDUIT 3/4"C WITH REQUIRED WIRING CONTAINED THEREIN.
IC	INTEGRATED COMMUNICATION SYSTEM CONDUIT, 3/4"C. WITH REQUIRED CABLES THEREIN.
SEC	INTRUSION ALARM SYSTEM CONDUIT 3/4"C. WITH REQUIRED CABLES CONTAINED THEREIN.
MD	MOTION DETECTOR CEILING MOUNTED (TO MATCH EXISTING).
	INTRUSION ALARM DOOR CONTACT (TO MATCH EXISTING).
	CLOCK AND BACKBOX (TO MATCH EXISTING). MOUNT AT +90".
CTB	COMMUNICATIONS TERMINAL BOARD.
FACP	FIRE ALARM CONTROL PANEL. (EXISTING).
FATC	FIRE ALARM TERMINAL CABINET WITH REMOTE POWER SUPPLY.
MDF	MAIN DISTRIBUTION FRAME (EXISTING).
IDF	INTERMEDIATE DISTRIBUTION FRAME.
SCP	SECURITY CONTROL PANEL.
MSCP	MAIN SECURITY CONTROL PANEL (EXISTING).
MTTB	MAIN TELEPHONE TERMINAL BOARD (EXISTING).
MCATV	CABLE TELEVISION DISTRIBUTION.
EOL	END OF LINE RESISTOR.
SPB	SIGNAL UNDERGROUND PULLBOX.
PPB	POWER UNDERGROUND PULLBOX.
WP	WEATHERPROOF.
VL	VERIFY EXACT LOCATION IN FIELD.

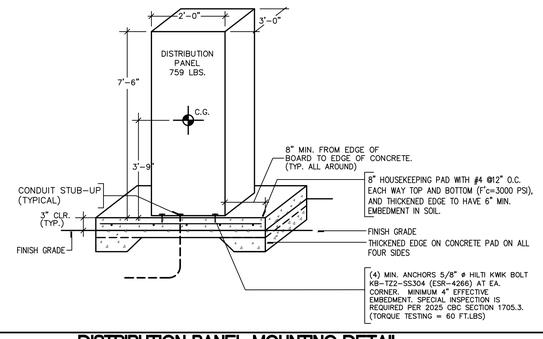


NOTES:
1. SIZE OF CONDUCTOR SHALL COMPLY WITH CEC TABLE 250–122
2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO METAL BUILDING FRAME (CEC 250–28) IN ADDITION TO THE DETAIL SHOWN ABOVE. BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10FT INTO THE SOIL IF AVAILABLE (CEC 250–30(A).4, 250–30(A).6 & 250–52)
3. ALL MODULES OF METAL FRAME BUILDINGS SHALL BE ELECTRICAL BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING)
4. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS INSTALL ADDITIONAL GROUND RODS (CEC 250–84 AS REQUIRED)
5. PROJECT INSPECTOR SHALL WITNESS GROUNDING TEST.

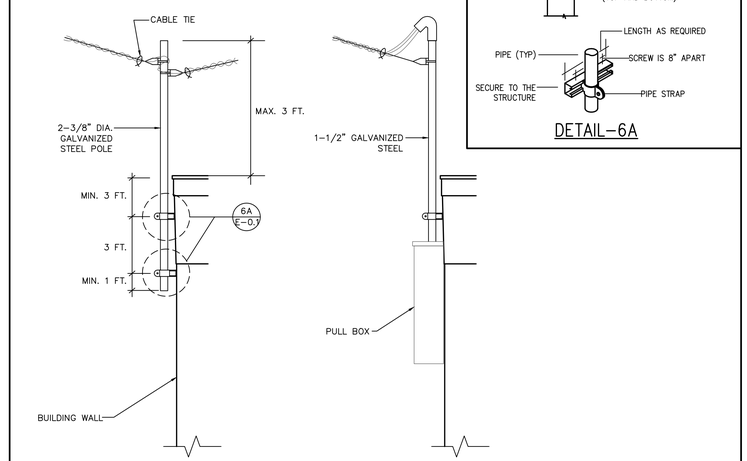
GROUNDING DETAIL — NTS — 1



IDF RACK MOUNTING DETAIL (WOOD) — NTS — 3



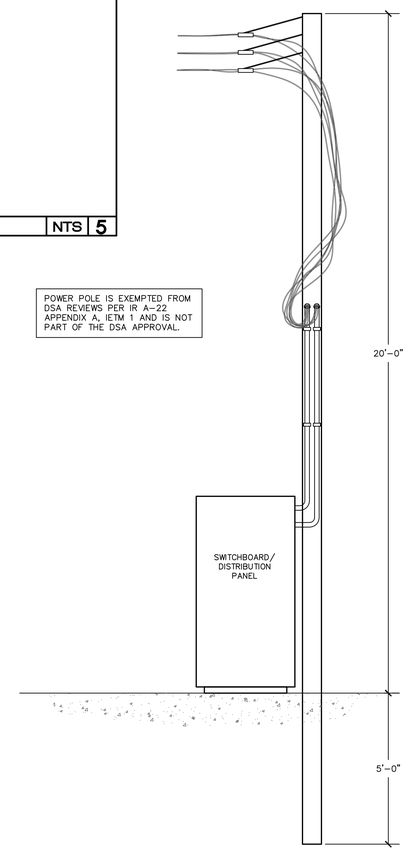
DISTRIBUTION PANEL MOUNTING DETAIL — NTS — 5



OVERHEAD POWER POLE DETAIL — OVERHEAD POWER SERVICE DROP DETAIL

ELECTRIC OVERHEAD SERVICE DETAIL — NTS — 6

DETAIL–6A

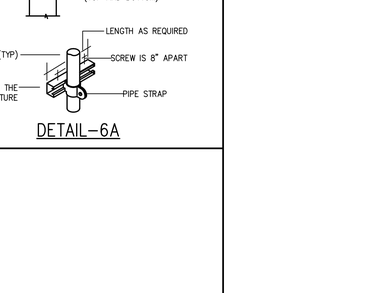


OVERHEAD POWER POLE DETAIL — NTS — 7

NOTES:
1. SLOPE RUNS A MIN. OF 4" IN 100 FT. BETWEEN MANHOLES OR MANHOLE AND VAULT OR CABLE RISERS.
2. RUN SHALL BE STRAIGHT WITHOUT ANY HIGH OR LOW POINTS BETWEEN ENDS, THE HIGHER END SHALL BE AT A VENTILATED MANHOLE,VAULT, OR CABLE RISER.
3. WHERE PATCHES ARE REQUIRED TO PEDESTRIAN PAVEMENT, THEY SHALL COMPLY WITH 11B–302.1 AND 11B–303.
4. PATCH TO MATCH EXISTING PAVING

PROFILE TO MAINTAIN FIRE LANE STRENGTH.

ENCASED CONDUIT — NTS — 2



CONDUIT CROSSING SEISMIC SEPARATION — NTS — 4

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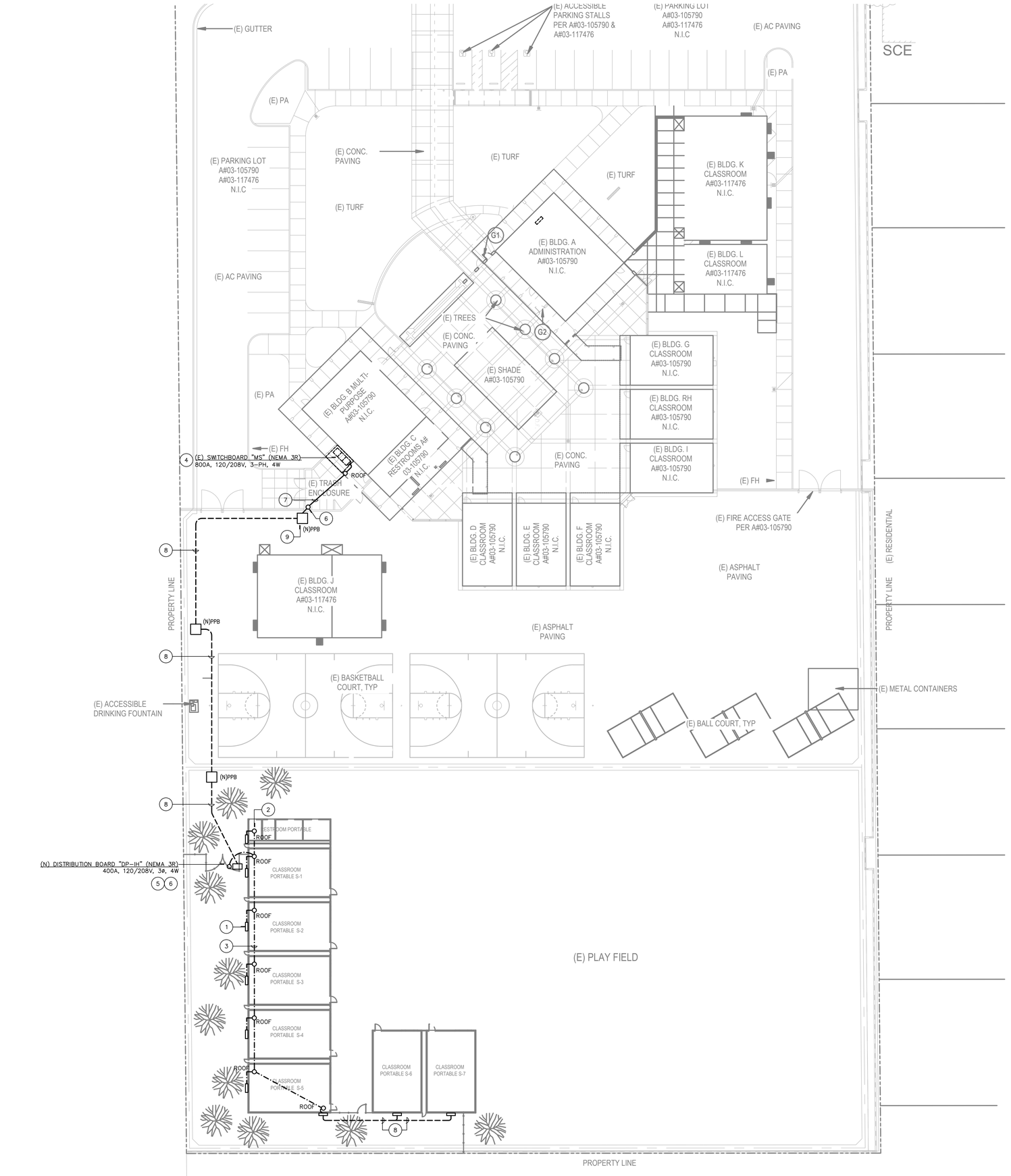
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drawing title:

ELECTRICAL GENERAL NOTES & SYMBOLS

drawing no.:

E0.1



NOTES

1. REFER TO DRAWING E0.1 FOR GENERAL NOTES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND VERIFYING, THE EXACT LOCATION OF THE "COMMUNICATIONS" PULLBOX FOR THE PROPER INTERFACE WITH THE UNDERGROUND CONDUIT STUB-UPS.
3. WHERE NEW AND EXISTING CONDUIT STUB-OUTS ARE TO BE INTERCEPTED, THE CONTRACTOR SHALL VERIFY THE ACTUAL ROUTING OF THE NEW AND EXISTING CONDUITS AND DETERMINE THE ACTUAL POINT OF INTERCEPTION THE FIELD.
4. LOCATION OF UNDERGROUND PULLBOXES AND CONDUIT ROUTING INDICATED ON THESE PLANS IS DIAGRAMMATIC. ACTUAL PULLBOX LOCATION AND ROUTING OF UNDERGROUND CONDUITS SHALL BE VERIFIED IN THE FIELD TO AVOID INTERFERENCE WITH OTHER UTILITIES AND TRADES.
5. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO MAINTAIN REQUIRED CLEARANCES BETWEEN UNDERGROUND ELECTRICAL CONDUITS AND FOOTINGS. CONDUIT STUB-UPS SHALL NOT BE INSTALLED IN FOOTINGS, EXACT METHOD FOR STUBBING-UP CONDUITS AT FOOTINGS LOCATIONS SHALL COORDINATED IN THE FIELD WITH THE ARCHITECT.
6. PROTECT EXISTING CONCRETE, WALKWAY, ELECTRICAL FOR TRENCHING TO BE WITHIN ASPHALT AREA UNLESS WHERE NECESSARY. PATCH CONCRETE TO MATCH SURROUNDING WHERE NECESSARY.
7. ALL UNDERGROUND CABLES (POWER AND SIGNAL) SHALL BE RATED FOR UNDERGROUND USE.
8. ALL OVERHEAD CABLES (POWER AND SIGNAL) SHALL BE RATED FOR SUN RESISTANT WITH XLPE INSULATION (POWER).
9. CONTRACTOR SHALL BE RESPONSIBLE TO PICK UP TRANSFORMER AND DISTRIBUTION BOARD FROM THE DISTRICT. COORDINATE WITH DISTRICT FOR LOCATION OF TRANSFORMER AND DISTRIBUTION BOARD.

REFERENCE NOTES

1. (N) 12"x12"x6" DEEP (NEMA 3R) WALL MOUNTED "POWER" PULL BOX. VERIFY EXACT LOCATION AND MOUNTING HEIGHT IN FIELD. PROVIDE WEATHERHEAD MOUNTED 3 FEET ABOVE ROOF. ELECTRICAL PANEL IS TO BE PROVIDED BY MODULAR BUILDING MANUFACTURER, CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO MODULAR BUILDING PANEL FOR A COMPLETE AND OPERABLE SYSTEM. VERIFY EXACT LOCATION IN FIELD. TYPICAL.
2. INSTALL CONDUCTORS MINIMUM 3 FEET ABOVE ROOF USING POLE. VERIFY EXACT LOCATION IN FIELD. QUANTITY AS REQUIRED. REFER TO DETAIL "6/E0.1". TYPICAL.
3. OVERHEAD CONDUCTORS RATED FOR OVERHEAD USE AND SUN RESISTANCE. TAP CONDUCTORS PER NEC 240.21(B)(2). TYPICAL.
4. INSTALL (N) WEATHERPROOF PULL BOX OR SEALTIGHT CONNECTION AND (2) 3" CONDUITS ON THE SIDE OF EXISTING SWITCHBOARD.
5. (N) DISTRIBUTION BOARD "DB-IH", 400A, 120/208V, 3-PH, 4W (NEMA 3R). VERIFY EXACT LOCATION IN FIELD. PROVIDE WEATHERHEAD MOUNTED 12 FEET ABOVE FINISH GRADE. ANCHORAGE PER DETAIL "5/E0.1".
6. INSTALL (N) 25 FT TEMP POWER POLE. VERIFY EXACT LOCATION AND HEIGHT IN FIELD. QUANTITY AS REQUIRED. REFER TO DETAIL "7/E0.1".
7. OVERHEAD CONDUCTORS RATED FOR OVERHEAD SERVICE CONDUCTOR AND SUN RESISTANCE. CONDUCTORS SHALL BE MOUNTED MINIMUM 18 FEET ABOVE FINISH GRADE ON TEMPORARY POLE OR 3 FEET ABOVE ROOF. INSTALL ROOF MOUNTED POLE AS REQUIRED TO SUPPORT OVERHEAD CONDUCTORS. REFER TO SINGLE LINE DIAGRAM FOR SIZE. VERIFY EXACT ROUTING IN FIELD.
8. INSTALL NEW UNDERGROUND CONDUIT AND CONDUCTORS. REFER TO SINGLE LINE DIAGRAM FOR SIZE VERIFY EXACT ROUTING IN FIELD. TYPICAL.
9. PROVIDE NEW UNDERGROUND POWER PULLBOX COMPLETE WITH HEAVY DUTY, STEEL TRAFFIC COVER ENGRAVED "POWER". PULLBOX SHALL BE MINIMUM OF 36"x24"xDEPTH AS REQUIRED OR SIZED AS REQUIRED PER CODE TO ACCOMODATE CONDUITS INDICATED. MINIMUM QUANTITY AS SHOWN ON THE DRAWING. TYPICAL.

POWER SITE PLAN | SCALE: 1"=20'-0" | 1

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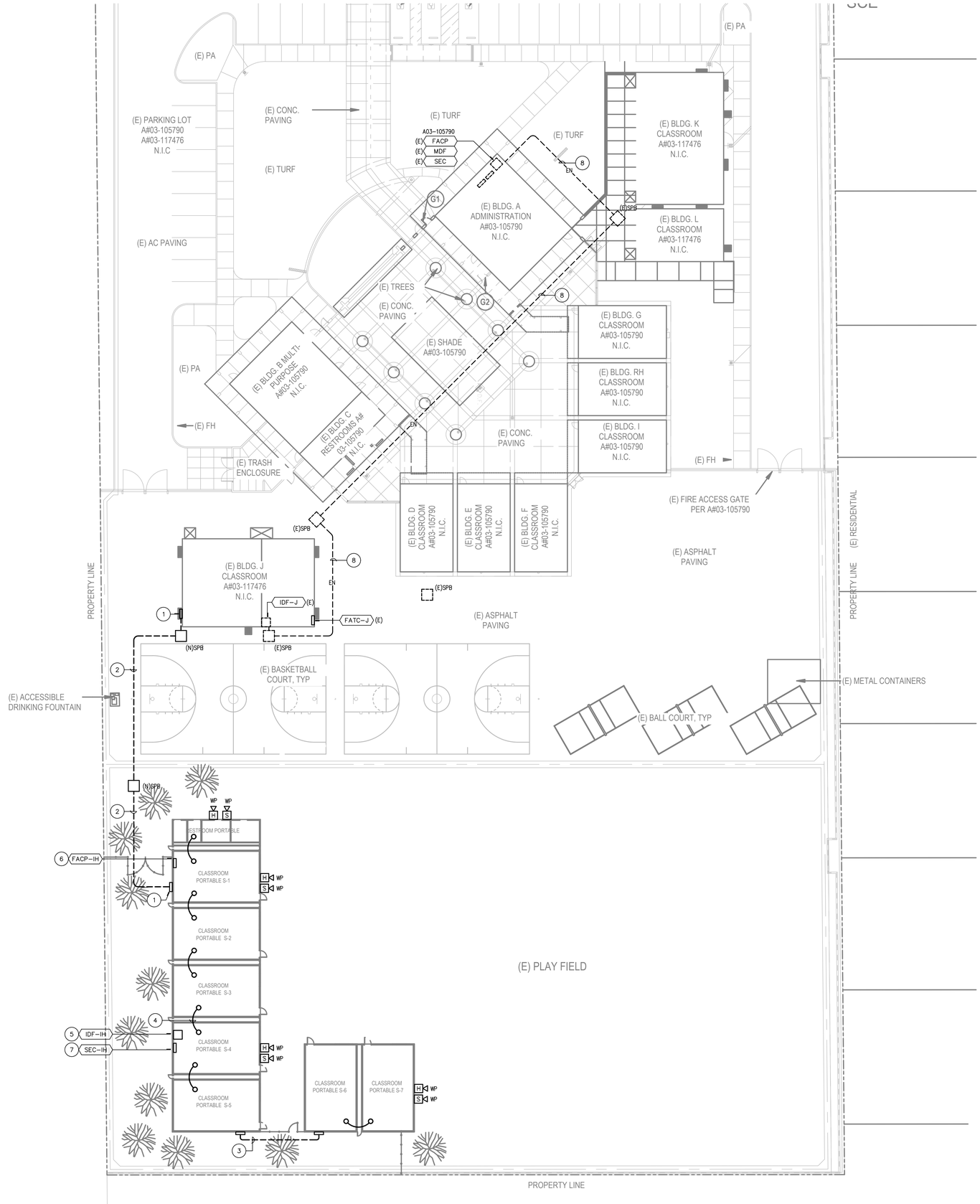
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drawing title:

POWER SITE PLAN

drawing no.:

E1.1



NOTES

1. REFER TO DRAWING E0.1 FOR GENERAL NOTES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND VERIFYING, THE EXACT LOCATION OF THE "COMMUNICATIONS" PULLBOX FOR THE PROPER INTERFACE WITH THE UNDERGROUND CONDUIT STUB-UPS.
3. REFER TO DRAWINGS E2.1 THRU E-2.3 AND E-3.1 THRU E-3.3 FOR CLASSROOM COMMUNICATIONS CONDUIT DISTRIBUTION AND REQUIREMENTS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK ASSOCIATED WITH THE EXPANSION OF THE FIRE ALARM SYSTEM AND THE INTERCOM SYSTEM WITH THE PARTICULAR SYSTEMS MANUFACTURERS REPRESENTATIVE AND PROVIDED REQUIRED SYSTEM HARDWARE AND SOFTWARE FOR A FULLY OPERABLE SYSTEM EXPANSION.
5. WHERE NEW AND EXISTING CONDUIT STUB-OUTS ARE TO BE INTERCEPTED, THE CONTRACTOR SHALL VERIFY THE ACTUAL ROUTING OF THE NEW AND EXISTING CONDUITS AND DETERMINE THE ACTUAL POINT OF INTERCEPTION THE FIELD.
6. LOCATION OF UNDERGROUND PULLBOXES AND CONDUIT ROUTING INDICATED ON THESE PLANS IS DIAGRAMMATIC. ACTUAL PULLBOX LOCATION AND ROUTING OF UNDERGROUND CONDUITS SHALL BE VERIFIED IN THE FIELD TO AVOID INTERFERENCE WITH OTHER UTILITIES AND TRADES.
7. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO MAINTAIN REQUIRED CLEARANCES BETWEEN UNDERGROUND ELECTRICAL CONDUITS AND FOOTINGS. CONDUIT STUB-UPS SHALL NOT BE INSTALLED IN FOOTINGS, EXACT METHOD FOR STUBBING-UP CONDUITS AT FOOTINGS LOCATIONS SHALL COORDINATED IN THE FIELD WITH THE ARCHITECT.
8. PROTECT EXISTING CONCRETE, WALKWAY, ELECTRICAL FOR TRENCHING TO BE WITHIN ASPHALT AREA UNLESS WHERE NECESSARY. PATCH CONCRETE TO MATCH SURROUNDING WHERE NECESSARY.
9. ALL CABLES (POWER AND SIGNAL) SHALL BE RATED FOR SUN RESISTANT AND OVERHEAD USE.
10. CONTRACTOR SHALL BE RESPONSIBLE TO SIZE PULL BOXES PER CODE AND PROVIDE NUMBER OF PULL BOXES AS REQUIRED TO ACCOMODATE CONDUITS AND CABLES.

REFERENCE NOTES

1. (N) 24"x 24"x 6" DEEP (NEMA 3R) WALL MOUNTED "FIRE ALARM/DATA" PULL BOX. VERIFY EXACT LOCATION AND MOUNTING HEIGHT IN FIELD. PROVIDE STEEL BARRIER IN PULL BOX.
2. INSTALL NEW UNDERGROUND CONDUITS AND LOW VOLTAGE CABLES. VERIFY EXACT ROUTING IN FIELD.
   (N) 3"C. (6-STRAND FIBER OPTIC OS-2 UNDERGROUND RATED)
   (N) 2"C. (TEL/PA)
   (N) 2"C. (SECURITY)
   (N) (2) 2"C.O. (SPARE)
3. INSTALL NEW UNDERGROUND CONDUITS AND LOW VOLTAGE CABLES. VERIFY EXACT ROUTING IN FIELD.
   (N) 3"C. (CAT 6 DATA CABLES UNDERGROUND RATED)
   (N) 2"C. (TEL/PA)
   (N) 2"C. (FIRE ALARM)
   (N) 2"C. (SECURITY)
4. ROUTE CABLES THRU (1) 1" SEALTIGHT FLEX CONDUIT FOR FIRE ALARM SYSTEM AND (2) 2" SEALTIGHT FLEX CONDUIT FOR DATA/SECURITY SYSTEMS OR QUANTITY AS REQUIRED. REFER TO DETAIL "4/E0.1". TYPICAL.
5. (N) INTERMEDIATE DISTRIBUTION FRAME "IDF-IH" AND COMMUNICATION TERMINAL CABINET "CTB-IH".
6. (N) FIRE ALARM REMOTE POWER SUPPLY AND CABINET "FACP-IH". VERIFY EXACT LOCATION IN FIELD.
7. (N) SECURITY CABINET WITH EXPANDER MODULE BY DMP #714-16 (QUANTITY AS REQUIRED). PROVIDE POWER SUPPLY AND BATTERY BY ALTRONIX #AL600ULACM OR APPROVED EQUAL AND DEDICATED 120V POWER INSIDE TERMINAL CABINET. VERIFY EXACT LOCATION IN FIELD.
8. INSTALL NEW PA AND SECURITY CABLES TO EXISTING MAIN HEAD-END EQUIPMENT FOR COMPLETE AND OPERABLE SYSTEM. VERIFY EXACT ROUTING IN FIELD.

SIGNAL SITE PLAN | SCALE: 1"=20'-0" | 1

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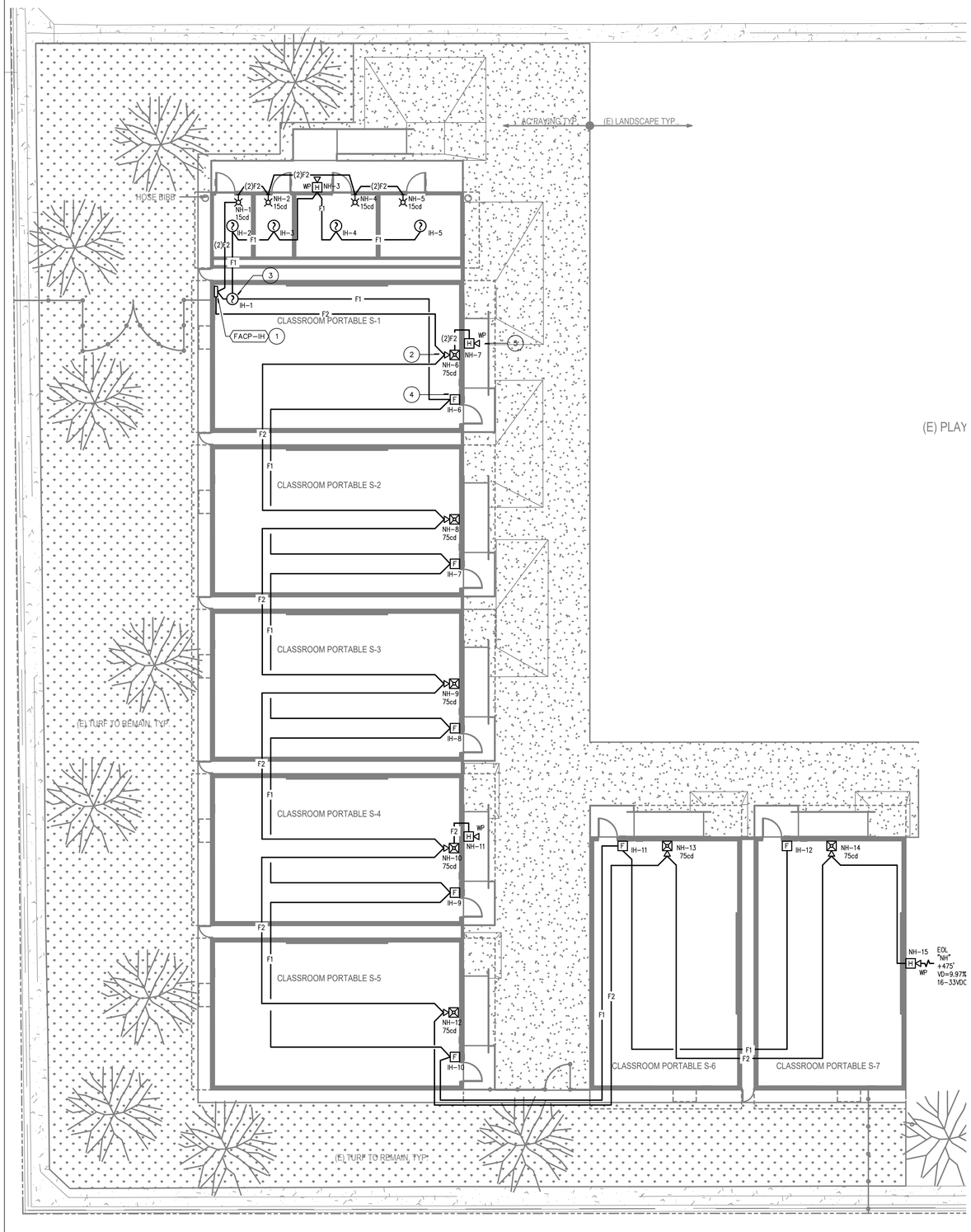
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drawing title:

SIGNAL SITE PLAN

drawing no.:

E1.2



NOTES

1. THE ELECTRICAL CONTRACTOR TO PROVIDE AND ROUGH–IN ALL NECESSARY LOW VOLTAGE AND FIRE ALARM SYSTEMS BACK BOXES, BUILDING MOUNTED TERMINAL BOXES AND ASSOCIATED CONDUITS (INCLUDING PULL–ROPE), BETWEEN BACK BOX AND TERMINAL BOX.
2. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL NEW LOW VOLTAGE COMMUNICATION/SIGNAL AND FIRE ALARM DEVICES TO MATCH EXISTING SITE SYSTEMS, HE SHALL ALSO FURNISH AND INSTALL ALL ASSOCIATED CABLING REQUIRED AND MAKE ALL FINAL CONNECTIONS TO PROVIDE A FULLY FUNCTIONAL SYSTEM EXPANSION. COORDINATE ALL SPECIFIC REQUIREMENTS WITH THE LOCAL REPRESENTATIVE FOR "FIRE–LITE" (FIRE ALARM) AND "VALCOM" (COMMUNICATIONS).
3. COORDINATE AND VERIFY WITH DEVICES MANUFACTURER FOR JUNCTION BOX SIZE REQUIRED FOR FUTURE INSTALLATION.
4. MOUNTING HEIGHT SHALL COMPLY WITH ADA REQUIREMENTS AND AS NOTED ON PLAN.
5. WHERE EXISTING CONDUIT STUB–OUTS ARE TO BE INTERCEPTED, THE CONTRACTOR SHALL VERIFY THE ACTUAL ROUTING OF THE EXISTING CONDUITS AND DETERMINE THE ACTUAL POINT OF INTERCEPTION THE FIELD.
6. COORDINATE AND VERIFY EXACT LOCATION AND MOUNTING HEIGHT OF JUNCTION BOXES.
7. COORDINATE AND VERIFY WITH DEVICES MANUFACTURER FOR JUNCTION BOX SIZE REQUIRED FOR FUTURE INSTALLATION.
8. REFER TO NFPA 72 FOR MOUNTING HEIGHT, LOCATION AND SPACING OF FIRE ALARM DEVICES. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE SMOKE DETECTORS, ATTIC HEAT DETECTOR, FIRE ALARM HORN/STROBE AND FIRE ALARM EXETRIOR HORN TO COMPLY WITH NFPA 72 FOR COVERAGE.
9. REFER TO DRAWING E0.1 FOR GENERAL NOTES.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND VERIFYING, THE EXACT LOCATION OF THE "COMMUNICATIONS" PULLBOX FOR THE PROPER INTERFACE WITH THE UNDERGROUND CONDUIT STUB–UPS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK ASSOCIATED WITH THE EXPANSION OF THE FIRE ALARM SYSTEM AND THE INTERCOM SYSTEM WITH THE PARTICULAR SYSTEMS MANUFACTURERS REPRESENTATIVE AND PROVIDED REQUIRED SYSTEM HARDWARE AND SOFTWARE FOR A FULLY OPERABLE SYSTEM EXPANSION.
12. WHERE EXISTING CONDUIT STUB–OUTS ARE TO BE INTERCEPTED, THE CONTRACTOR SHALL VERIFY THE ACTUAL ROUTING OF THE EXISTING CONDUITS AND DETERMINE THE ACTUAL POINT OF INTERCEPTION THE FIELD.

F.A. REFERENCE NOTES

1. (N) FIRE ALARM CONTROL PANEL "FACP–IH". PROVIDE DEDICATED 120V POWER FROM MODULAR PANEL COMPLETE WITH 20A/1P LOCK–ON BREAKER IN MODULAR PANEL. INSTALL TELEPHONE OR DATA CABLE FOR COMMUNICATION TO EXISTING FACP IN ADMIN BUILDING. VERIFY EXACT LOCATION IN FIELD.
2. INSTALL WALL MOUNTED FIRE ALARM HORN/STROBE AND FIRE ALARM CABLE TO "FACP". TYPICAL.
3. INSTALL SMOKE/CO DETECTOR AND FIRE ALARM CABLE TO "FACP
4. INSTALL MANUAL PULL STATION AND FIRE ALARM CABLE TO "FACP" TYPICAL.
5. INSTALL WEATHERPROOF EXTERIOR FIRE ALARM HORN AND FIRE ALARM CABLE TO "FACP". TYPICAL.
6. REFER TO DETAIL "4/E–0.1" FOR CONDUIT SEISMIC SEPARATION DETAIL. TYPICAL.

N

FIRE ALARM FLOOR PLAN | SCALE: 1/8"=1'–0" | 1

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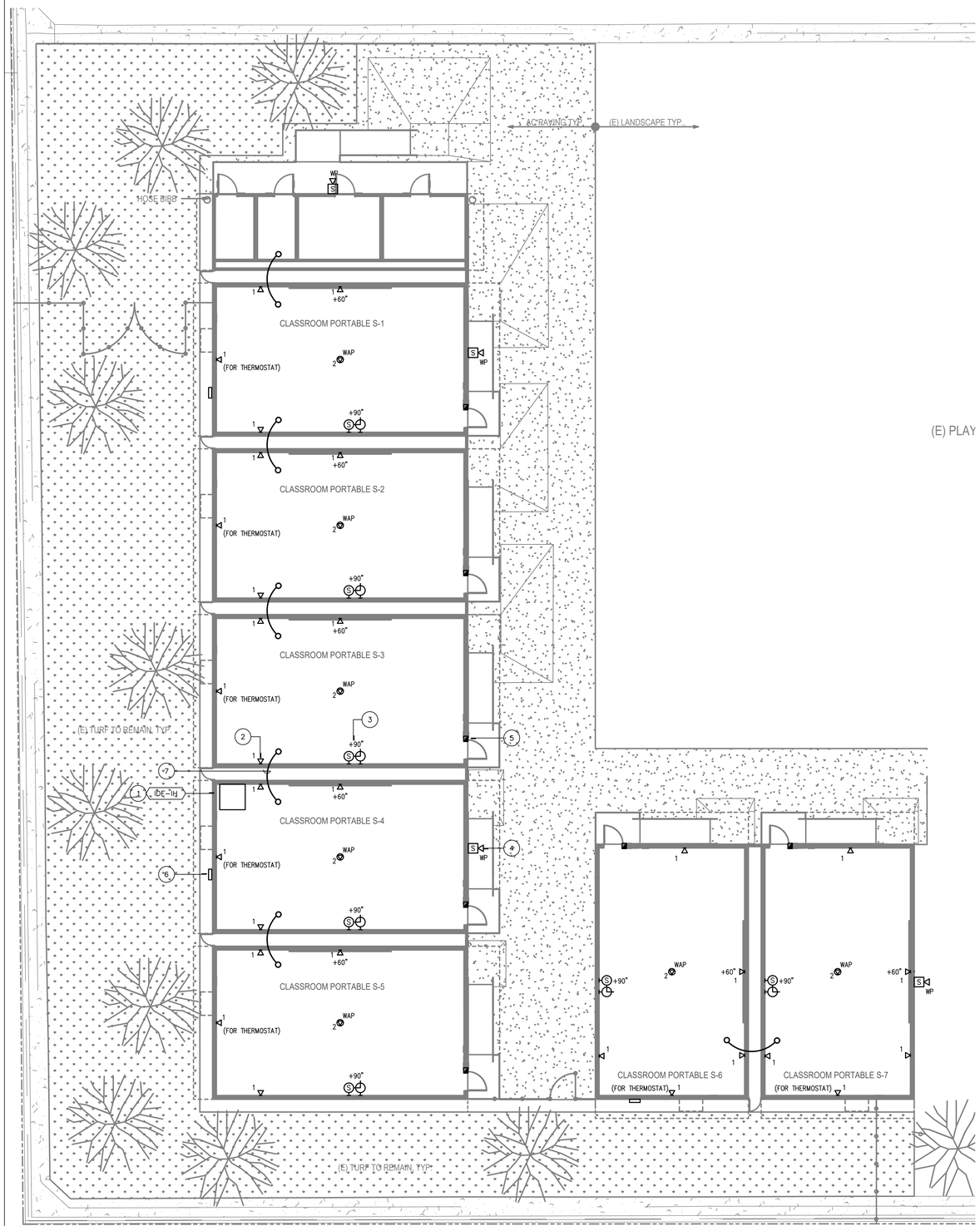
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FIRE ALARM FLOOR PLAN

drawing no.:

E2.1



NOTES

1. THE ELECTRICAL CONTRACTOR TO PROVIDE AND ROUGH-IN ALL NECESSARY LOW VOLTAGE AND FIRE ALARM SYSTEMS BACK BOXES, BUILDING MOUNTED TERMINAL BOXES AND ASSOCIATED CONDUITS (INCLUDING PULL-ROPE), BETWEEN BACK BOX AND TERMINAL BOX.
2. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL NEW LOW VOLTAGE COMMUNICATION/SIGNAL AND FIRE ALARM DEVICES TO MATCH EXISTING SITE SYSTEMS, HE SHALL ALSO FURNISH AND INSTALL ALL ASSOCIATED CABLING REQUIRED AND MAKE ALL FINAL CONNECTIONS TO PROVIDE A FULLY FUNCTIONAL SYSTEM EXPANSION. COORDINATE ALL SPECIFIC REQUIREMENTS WITH THE LOCAL REPRESENTATIVE FOR "FIRE-LITE" (FIRE ALARM) AND "VALCOM" (COMMUNICATIONS).
3. COORDINATE AND VERIFY WITH DEVICES MANUFACTURER FOR JUNCTION BOX SIZE REQUIRED FOR FUTURE INSTALLATION.
4. MOUNTING HEIGHT SHALL COMPLY WITH ADA REQUIREMENTS AND AS NOTED ON PLAN.
5. WHERE EXISTING CONDUIT STUB-OUTS ARE TO BE INTERCEPTED, THE CONTRACTOR SHALL VERIFY THE ACTUAL ROUTING OF THE EXISTING CONDUITS AND DETERMINE THE ACTUAL POINT OF INTERCEPTION THE FIELD.
6. COORDINATE AND VERIFY EXACT LOCATION AND MOUNTING HEIGHT OF JUNCTION BOXES.
7. COORDINATE AND VERIFY WITH DEVICES MANUFACTURER FOR JUNCTION BOX SIZE REQUIRED FOR FUTURE INSTALLATION.
8. REFER TO NFPA 72 FOR MOUNTING HEIGHT, LOCATION AND SPACING OF FIRE ALARM DEVICES. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE SMOKE DETECTORS, ATTIC HEAT DETECTOR, FIRE ALARM HORN/STROBE AND FIRE ALARM EXETRIOR HORN TO COMPLY WITH NFPA 72 FOR COVERAGE.
9. REFER TO DRAWING E0.1 FOR GENERAL NOTES.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND VERIFYING, THE EXACT LOCATION OF THE "COMMUNICATIONS" PULLBOX FOR THE PROPER INTERFACE WITH THE UNDERGROUND CONDUIT STUB-UPS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK ASSOCIATED WITH THE EXPANSION OF THE FIRE ALARM SYSTEM AND THE INTERCOM SYSTEM WITH THE PARTICULAR SYSTEMS MANUFACTURERS REPRESENTATIVE AND PROVIDED REQUIRED SYSTEM HARDWARE AND SOFTWARE FOR A FULLY OPERABLE SYSTEM EXPANSION.
12. WHERE EXISTING CONDUIT STUB-OUTS ARE TO BE INTERCEPTED, THE CONTRACTOR SHALL VERIFY THE ACTUAL ROUTING OF THE EXISTING CONDUITS AND DETERMINE THE ACTUAL POINT OF INTERCEPTION THE FIELD.

SIGNAL REFERENCE NOTES

1. INSTALL NEW INTERMEDIATE DISTRIBUTION FRAME "IDF-IH" (OWNER FURNISH AND CONTRACTOR INSTALL) AND COMMUNICATION TERMINAL CABINET "CTB-0". VERIFY EXACT LOCATION WITH THE DISTRICT. PROVIDE DEDICATED 120V POWER FROM MODULAR PANEL COMPLETE WITH 20A/1P BREAKER IN MODULAR PANEL. INSTALL PLYWOOD BACKBOARD (SIZE AS REQUIRED) AND PAINT TO MATCH EXISTING WALL COLOR. VERIFY EXACT LOCATION IN FIELD.
2. INSTALL CAT 6A DATA OUTLETS AND CAT 6A CABLES TO "IDF". QUANTITY AS SHOWN ON PLAN. TYPICAL.
3. INSTALL WALL MOUNTED ANALOG SPEAKER AND BATTERY OPERATED CLOCK AT +90" A.F.F. INSTALL SPEAKER CABLES TO MAIN HEAD-END EQUIPMENT. TYPICAL.
4. INSTALL WALL MOUNTED WEATHERPROOF ANALOG SPEAKER. INSTALL SPEAKER CABLES TO MAIN HEAD-END EQUIPMENT. TYPICAL.
5. INSTALL INTRUSION DETECTION DOOR CONTACT AND CABLES TO SECURITY PANEL. VERIFY EXACT LOCATION IN FIELD. TYPICAL.
6. INSTALL 24"x24"x12" DEEP OR SIZE AS REQUIRED (NEMA-3R) WALL MOUNTED "DATA/SEC/FA" PULLBOX. PROVIDE METAL BARRIER FOR FIRE ALARM CABLE. VERIFY EXACT LOCATION IN FIELD. TYPICAL.
7. INSTALL (1) 1" SEALTIGHT FLEX CONDUIT FOR FIRE ALARM SYSTEM AND (2) 2" SEALTIGHT FLEX CONDUIT FOR DATA/PA/SECURITY SYSTEMS OR QUANTITY AS REQUIRED. TYPICAL.

N

SIGNAL FLOOR PLAN | SCALE: 1/8"=1'-0" | 2

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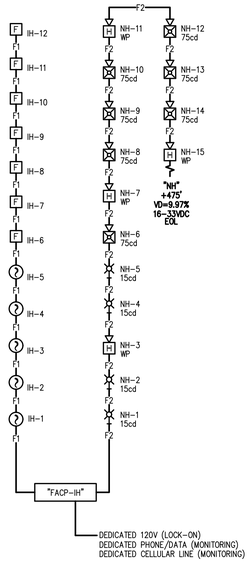
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SIGNAL FLOOR PLAN

drawing no.:

E2.2



INTERIM HOUSING PORRTABLES

VOLTAGE DROP - FIRE ALARM TERMINAL CABINET "FACP-IH"

DEVICE DESCRIPTION	DRAW	CKT "NH" QTY	CKT "NH" TOTAL
15cd STROBE	0.043	4	0.172
OUTDOOR HORN	0.069	4	0.276
15cd HORN/STROBE	0.054	0	0
30cd HORN/STROBE	0.074	0	0
75cd HORN/STROBE	0.121	7	0.847
TOTAL CURRENT DRAW			1.295
CM (#12 WIRE USED)			6530
TOTAL DISTANCE			475
MULTIPLIER			21.6
VOLTAGE			20.4
PERCENTAGE DROP			9.97%

BATTERY CALCULATION - FIRE ALARM CONTROL PANEL "FACP" (FIRE-LITE ES-200X)

DESCRIPTION	MODEL	CURRENT PER UNT (AMPS) STAND BY	CURRENT PER UNT (AMPS) ALARM	QTY.	TOTAL CURRENT (AMPS) STAND BY	TOTAL CURRENT (AMPS) ALARM
Fire Alarm Conrol Panel Components						
Fire Alarm Control Unit	ES-200X	0.141000	0.257000	1	0.141000	0.257000
IPOTS-COMM Communicator	IPOTS	0.040000	0.041000	1	0.040000	0.041000
Transmitter Module	4XTMF	0.005000	0.011000	1	0.005000	0.011000
End of Line	EOLR-1	0.020000	0.020000	1	0.020000	0.020000
NAC Output	NAC	0.000000	0.557000	1	0.000000	0.557000
Initiation Devices						
Smoke/CO Detector	SD365	0.000200	0.004500	5	0.001000	0.022500
Heat Detector	H365T	0.000200	0.004510	0	0.000000	0.000000
Detector Base	B5001BH	0.001000	0.001000	5	0.005000	0.005000
Manual Pull Station	BG-12LX	0.000375	0.002000	8	0.003000	0.016000
Notification Devices						
15cd Strobe	SRL	0.000000	0.043000	4	0.000000	0.172000
30cd Strobe	SRL	0.000000	0.063000	0	0.000000	0.000000
75cd Strobe	SRL	0.000000	0.107000	0	0.000000	0.000000
110cd Strobe	SRL	0.000000	0.148000	0	0.000000	0.000000
15cd Horn/Strobe	P2RL	0.000000	0.054000	0	0.000000	0.000000
30cd Horn/Strobe	P2RL	0.000000	0.074000	0	0.000000	0.000000
75cd Horn/Strobe	P2RL	0.000000	0.121000	8	0.000000	0.968000
110cd Horn/Strobe	P2RL	0.000000	0.162000	0	0.000000	0.000000
Weatherproof Horn	HRK	0.000000	0.069000	1	0.000000	0.069000
			SUB-TOTAL		0.270000	2.238500
					X 24 HOURS	X .25 HOURS
			TOTALS		6.480000	0.559625
			TOTAL AMP HOURS x 1.2		8.447550	
			BATTERY USED		24.000000	
			SPARE		15.552450	

CONDUIT AND WIRE SPECIFICATIONS

LABEL	DESCRIPTION OF CONTENTS	CONDUIT SIZE (UNO)
F1	(1)-16/2	3/4" MIN.
F2	(2)-#12 CU WIRES	3/4" MIN.
F3	(1)-14/2 OR 12/2 SHIELDED SPKR. CABLE	3/4" MIN.
F4	(2) F1	3/4" MIN.
F5	(2) F2	3/4" MIN.
F6	(2) F3	3/4" MIN.
F7	(1) F1 & (1) F2	3/4" MIN.
F8	(1) F1 & (1) F3	3/4" MIN.
F9	(1) F2 & (1) F3	3/4" MIN.
F10	(1) F1 & (2) F2	1" MIN.
F11	(2) F1 & (2) F2	1" MIN.
F12	(2) F1 & (2) F3	1" MIN.
F13	(2) F2 & (2) F3	1" MIN.
F14	(2) F1 & (2) F2 & (2) F3	1" MIN.

NOTES:
1. 16/2 = WEST PENN WIRE #0990/BELDEN #5220UL; INSIDE ONLY.
2. 16/2 = WEST PENN WIRE #AQ225; UNDERGROUND.
3. CONDUIT NOT TO EXCEED 40% FILL PER NEC STANDARDS.
4. ALL WIRING TO BE LISTED FOR USE AS REQUIRED BY TITLE 24/CEC, ART. 760.
5. "THHN-2", "AQUASEAL", OR EQUAL TO BE USED IN WET LOCATIONS.

FIRE ALARM NOTES

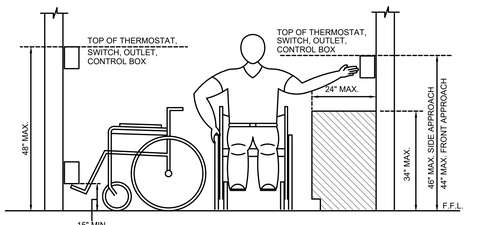
1. APPLICABLE STANDARD 2025 NFPA 72
2. INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING STATE FIRE MARSHALL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAS BEEN APPROVED BY DSA.
3. UPON COMPLETION OF THE INSTALLATION OF THE SYSTEMS, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR.
4. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.
5. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT/ENGINEER OF THE PROJECT.
6. DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPEECTION AND/OR TESTING.
7. WALL MOUNTED VISUAL NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND 96" MAXIMUM FROM FINISHED FLOOR.
8. WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" FROM FINISHED FLOOR AND NO CLOSER THAN 6" TO A HORIZONTAL STRUCTURE.
9. AUDIBLE DEVICES TO BE AT LEAST 15 DBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL BUT NOT LESS THAN 75 DBA AT 10 FEET OR MORE THAN 110 DBA AT THE MINIMUM HEARING DISTANCE. SOUND LEVEL SHALL BE MAINTAINED FOR DURATION OF AT LEAST 60 SECONDS 5 DBA MUST BE MAINTAINED.
10. AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN.
11. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
12. VISUAL DEVICES SHOULD NOT EXCEED 2 FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN 1 FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELA. VISUAL DEVICES WITHIN THE SAME ROOM SHALL BE SYNCHRONIZED.
13. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATERTIGHT FITTINGS AND WIRE TO BE APPROVED FOR WET LOCATION.
14. ALL FIRE ALARM WIRING SHALL BE FLP OR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE THHN OR THWN.
15. PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE THE WIRE. THERE MUST BE AT LEAST 6 FEET OF LEAD WIRE FROM THE BOX TO THE DEVICE. ALL BOXES TO BE SIZED PER CEC.
16. SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1 FEET FROM FIRE SPRINKLERS OR 3 FEET FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.
17. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAY OR OPEN RUN ABOVE CEILING, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANNER AS INDICATED ON DESIGN DOCUMENTS. EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS.
18. FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURER'S SPECIFICATION. NO SINGLE DEVICE SHALL EXCEED THE WEIGHT OF 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.
19. A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL". CIRCUIT ID TO BE LABELED AT FIRE PANEL/EXTENDERS.
20. THE INSTALLING CONTRACTOR SHALL PROVIDE A RECORD OF COMPLETION PER NFPA 72, SECTION 7.5.6.
21. CONTROL PANELS, REMOTE ANNUNCIATOR SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48".
22. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 901.6.2.
23. SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST.
24. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.
25. THE PERSON RESPONSIBLE FOR THE FIRE ALARM SYSTEM DESIGN LAYOUT ARE AS FOLLOWS:

NAME:	IRWAN YOWANTO
COMPANY:	YOWANTO ENGINEERING, INC.
ADDRESS:	2705 TOWNE AVE., #C POMONA, CA 91767
EMAIL:	IYOWANTO@YOWANTOENG.COM
FIRE ALARM PATHWAY:	CLASS B
SURVIVABILITY:	LEVEL 1

26. MINIMUM NOTIFICATION APPLIANCE AUDIBILITY REQUIRED: EDUCATIONAL = 60DBA MINIMUM. (CBC 907.5.2.1.1, NFPA 72, 18.4.3.1).

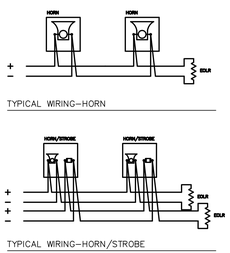
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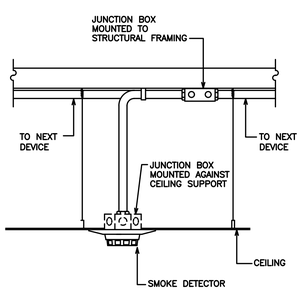
1. REFER TO THE FIRE ALARM SYSTEM SPECIFICATION, FOR ADDITIONAL REQUIREMENTS.
2. REFER TO GENERAL NOTES E0.1 FOR ANY ADDITIONAL REQUIREMENTS.
3. REFERENCE FIRE ALARM RISER DIAGRAM, THIS SHEET, FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
4. FIRE ALARM CONDUIT SHALL BE 3/4", UNLESS OTHERWISE NOTED.
5. FIRE ALARM CONDUCTORS SHALL BE KEPT SEPARATE FROM ALL OTHER SYSTEMS. CONTRACTOR SHALL PROVIDE PERMANENT STEEL BARRIERS IN ALL JUNCTION BOXES, PULL BOXES, TERMINAL CABINETS, ETC. TO MAINTAIN SEPARATION.
6. THE FIRE ALARM SYSTEM SHALL CONFORM TO CFC 907.2.3 AND ARTICLE 760 OF CALIFORNIA ELECTRICAL CODE. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY DSA. CFC 901, UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE FIRE AUTHORITY HAVING JURISDICTION.
7. THE ALARM SYSTEM SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED. FLASHING VISUAL WARNINGS SHALL HAVE A FREQUENCY OF NOT LESS THEN 2 FLASHES PER SECOND AND SHALL NOT BE SLOWER THAN 1 FLASH EVERY SECOND. (NFPA 72 SECTION 18.5.2.1) SIGNALING DEVICES FOR THE HEARING IMPAIRED SHALL BE STATE FIRE MARSHAL APPROVED AND LISTED.
8. INSULATED CONDUCTORS USED IN WET LOCATIONS SHALL BE (1) MOISTURE-IMPERVIOUS METAL SHEATHED (2) TYPES RHW, TW, THW, THHN, XHHW OR (3) OF A TYPE LISTED FOR USE IN WET LOCATIONS. CABLES OF ONE OR MORE CONDUCTORS USED IN WET LOCATIONS SHALL BE OF A TYPE LISTED FOR USE IN WET LOCATIONS. CONDUCTORS USED FOR DIRECT BURIAL APPLICATIONS SHALL BE OF A TYPE LISTED FOR SUCH USE (SEC. 310.7 AND 310.8 CEC).
9. UNDERGROUND AND EXTERIOR CONDUITS WILL HAVE WATERTIGHT FITTINGS PER (CEC 110-11, 300-6 AND 346-5).
10. PER CFC 901.2.1 STATEMENT OF COMPLIANCE SHALL BE COMPLETED BEFORE INSPECTION REQUEST. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM THE LOCAL AUTHORITY SHALL WITNESS FINAL FIRE ALARM TEST PER NFPA 72 PRIOR TO OCCUPANCY. A COMPLETED FIRE ALARM DESCRIPTION & CERTIFICATION REPORT SHALL BE PROVIDED AND INCLUDED WITH AS-BUILT DWGS PER CFC 907.18 THRU 907.20.5
11. WIRING MUST BE LISTED FOR USE AS REQUIRED BY CFC 907.1.2 CEC, ARTICLE 760
12. CONTRACTOR SHALL PROVIDE NO LESS THAN 8 HOURS OF IN-SERVICE TO OWNER.
13. IT IS UP TO THE CONTRACTOR TO FULLY FAMILIARIZE THEMSELVES WITH THE SITE AND ITS CONDITIONS PRIOR TO BIDDING.
14. EQUIPMENT AND DEVICE MODEL NUMBERS ARE A PART OF THE DSA APPROVAL. ALL SUBSTITUTIONS ARE SUBJECT TO PRIOR TO APPROVAL BY THE ARCHITECT. ADDITIONALLY THE CONTRACTOR IS RESPONSIBLE FOR SECURING DSA APPROVAL OF ALL CHANGES. NO ADDITIONAL COST OR TIME EXTENSIONS WILL BE GRANTED. DSA APPROVAL MUST BE SECURED PRIOR TO INSTALLING ANY WORK.
15. ANY CHANGES IN THE FIRE ALARM SYSTEM INCLUDING ADDITIONS, DELETIONS, MODIFICATIONS, OR REPAIRS SHALL REQUIRED SYSTEM TESTING PER NFPA 72 10-2.2.
16. CONTRACTOR SHALL PROVIDE FIRE ALARM SYSTEM TO MATCH AND COMPATIBLE WITH EXISTING SYSTEM. PROVIDE AS-BUILT DRAWING AT THE END OF THE PROJECT.
17. UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBERS SHALL BE CUT, DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DISTRICT STRUCTURAL ENGINEER FROM THE DIVISION OF STATE ARCHITECTS.
18. FIRE ALARM SYSTEMS SHALL BE SUPERVISED BY AN APPROVED UL LISTED CENTRAL STATION, OR REMOTE STATION (UUFX) MONITORING COMPANY (UUJS). CFC 907.6.6.

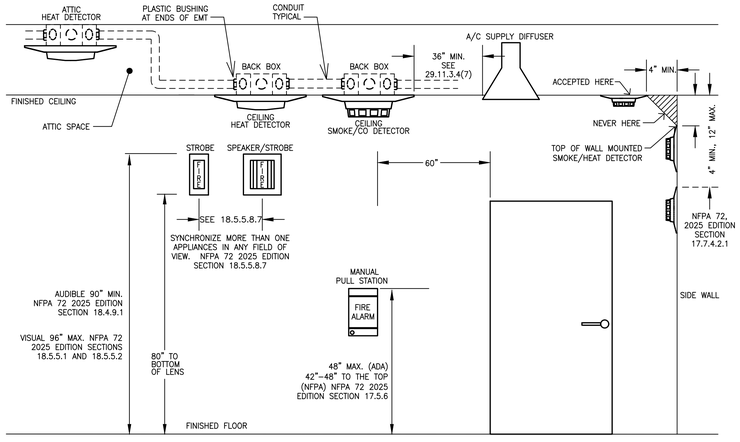


* FORWARD APPROACH FOR DEVICES MOUNTED ABOVE COUNTER ASSUMES THAT DIRECTLY BELOW THE DEVICE HAS A 30" MINIMUM WIDE x 27" MINIMUM HIGH x A DEPTH EQUAL TO THE DEPTH OF THE DEVICE FROM COUNTER FRONT CLEAR OPENING. CBC 11B-306 AND 11B-308

REFERENCE CBC 11B-308.2 AND 11B-308.3







FIRE ALARM ELEVATION DETAIL (NTS)

F.A. COMPONENT LISTING(S)

SYMBOL	DESCRIPTION	C.S.F.M.
FACP	(E) FIRE ALARM CONTROL PANEL (A#03-105790) (FCI #7100)	7165-1703:0105
FACP-IH	FIRE ALARM CONTROL PANEL (FIRELITE #ES-200X)	-
	FIRE ALARM DUAL PATH 5G/LTE-M COMMERCIAL COMMUNICATOR (FIRELITE #IW-TG7FE-A/HW-TG7FE-V)	-
15cd 30cd 75cd 110cd	VISUAL STROBE, WALL MOUNTED (SYSTEM SENSOR #SRL)	7135-1653:0532
15cd 30cd 75cd 110cd	VISUAL HORN AND STROBE (SYSTEM SENSOR #P2RL)	7125-1653:0188
WP H	FIRE ALARM EXTERIOR HORN (WEATHERPROOF) (SYSTEM SENSOR #HRK)	7135-1653:0189
?	ADDRESSABLE SMOKE/CO DETECTOR, CEILING MOUNTED. (PHOTO-ELECTRIC) (FIRE-LITE #SD-365(A); WITH #B300-6 BASE)	- 7300-1653:0109
F	ADDRESSABLE MANUAL PULL STATION (FIRE-LITE #BG-12LX)	-
	16/2 STRANDED BARE COPPER CONDUCTORS, OVERALL UNSHIELDED WITH AQUASEAL AND OVERALL JACKET (WEST PENN #AQ225)	7161-0859:0101
	16/2 SOLID BARE COPPER CONDUCTORS, UNSHIELDED AND OVERALL JACKET (WEST PENN #0990/BELDEN #5220UL)	7161-0060:0103
	16/2 SOLID BARE COPPER CONDUCTORS, SHIELDED AND OVERALL JACKET (WEST PENN #0991/BELDEN #5220FL)	7161-0060:0103
	12/2 COPPER FPLR (WINDY CITY WIRE #THHN-2)	7161-1727-0100

PARTIAL LIST OF APPLICABLE CODES (AS OF JANUARY 1, 2026) :

2025 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2025 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
(2024 INTERNATIONAL BUILDING CODE VOLUMES 1-2 AND 2025 CALIFORNIA AMENDMENTS)
2025 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
(2023 NATIONAL ELECTRICAL CODE AND 2025 CALIFORNIA AMENDMENTS)
2025 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R.
(2024 UNIFORM MECHANICAL CODE AND 2025 CALIFORNIA AMENDMENTS)
2025 CALIFORNIA PLUMBING CODE (CPC), PART 5 TITLE 24 C.C.R.
(2024 UNIFORM PLUMBING CODE AND 2025 CALIFORNIA AMENDMENTS)
2025 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
2025 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
(2024 INTERNATIONAL FIRE CODE AND 2025 CALIFORNIA AMENDMENTS)
2025 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 C.C.R.
2025 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

PARTIAL LIST OF APPLICABLE STANDARDS:

NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE	2025 EDITION
NFPA 92	STANDARD FOR SMOKE CONTROL SYSTEMS	2024 EDITION
UL 464	AUDIBLE SIGNAL APPLIANCES	2023 EDITION
UL 521	HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS (WITH 2025 REVISIONS)	2024 EDITION

REFERENCE CODE SECTION FOR NFPA STANDARDS-2025 CBC (SFM) CHAPTER 35. SEE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO NFPA STANDARDS.

ACTION / DEVICE	120 VOLT POWER	SYSTEM TROUBLE/ SYSTEM FAULT or OPEN	AREA SMOKE/CO DETECTOR	AREA or ATTIC HEAT DETECTOR
SOUND CONTROL PANEL TROUBLE BUZZER	YES	YES	NO	NO
SOUND CONTROL PANEL SUPERVISORY BUZZER	NO	NO	NO	NO
SOUND CONTROL PANEL ALARM BUZZER	NO	NO	YES	YES
ACTIVATE RELAY FOR CENTRAL STATION MONITORING	YES	YES	YES	YES
ANNUNCIATE AT REMOTE ANNUNCIATOR PANEL (ALARM or TROUBLE)	YES	YES	YES	YES
[1] ACTIVATE NOTIFICATION (AUDIBLE/VISUAL) ALARM SIGNAL THROUGHOUT BLDG	NO	NO	YES	YES
NOTIFY FIRE DEPARTMENT VIA MONITORING STATION	NO	NO	YES	YES
SHUTDOWN AUTONOMOUS PUBLIC ADDRESS SYSTEM UPON ACTIVATION OF SYSTEM	NO	NO	YES	YES

[1] PRE-RECORDED FIRE ALARM VOICE EVACUATION SIGNAL SHALL BE A FEMALE VOICE, AND SOUND "MAY I HAVE YOUR ATTENTION PLEASE MAY I HAVE YOUR ATTENTION PLEASE, A FIRE HAS BEEN REPORTED IN THE BUILDING. PLEASE PROCEED TO THE NEAREST EXIT AND EXIT THE BUILDING." MESSAGE SHALL REPEAT UNTIL MANUALLY DISABLED/SILENCED AT CONTROL OR ANNUNCIATOR PANEL.

COMPLETE PLAN SUBMITTAL FOR FULLY AUTOMATIC FIRE ALARM SYSTEM PER DSA PLAN SUBMITTAL REQUIREMENTS - FIRE ALARM DETECTION

SCOPE OF WORK

INSTALL A COMPLETE FIRE ALARM ADDRESSABLE SYSTEM PER NFPA 72 DSA IR-A1 FOR INTERIM HOUSING. FIRE ALARM PANEL SHALL BE MONITORED BY UL CERTIFIED (LISTED IN CATEGORIES UUFX AND UUJS) CENTRAL STATION.

NOTE:

PROVIDE DEDICATED 120 VOLT CIRCUIT CONNECTED TO LOCKED-ON BREAKER. THE CIRCUIT BREAKER SHALL BE LOCKED-ON WITH APPROVED LOCKING DEVICE, MARKED RED AND IDENTIFIED AS "FIRE ALARM CONTROL CIRCUIT". VERIFY PANEL AND SPARE CIRCUIT WITH MODULAR BUILDING MANUFACTURER.

FIRE ALARM RECORD DOCUMENT CABINET NFPA 72, 7.7.2

- EVERY NEW FIRE ALARM SYSTEM SHALL PROVIDE A DOCUMENTATION CABINET, INSTALLED AT THE SYSTEM CONTROL PANEL OR OTHER APPROVED LOCATION.
- THE DOCUMENTATION CABINET SHALL BE PROMINENTLY LABELED, "SYSTEM RECORD DOCUMENTS".
- ALL RECORD AND TESTING DOCUMENTATION SHALL BE STORED IN THE CABINET.
- CONTENTS SHALL BE ACCESSIBLE BY AUTHORIZED PERSONNEL ONLY.
- WHERE CABINET IS INSTALLED IN A LOCATION OTHER THAN THE SYSTEM CONTROL UNIT, ITS LOCATION SHALL BE IDENTIFIED AT THE SYSTEM CONTROL UNIT.

SYSTEM DOCUMENTS AS APPLICABLE:

- RECORD DRAWINGS/AS-BUILTS.
- EQUIPMENT CUT SHEETS & CA SFM LISTINGS.
- ALTERNATIVE MEANS AND METHODS.
- PERFORMANCE BASED DESIGN DOCUMENTATION (NFPA 72, 7.3.7)
- SYSTEM RECORD OF COMPLETION & ANY SUPPLEMENTAL INSPECTION AND TESTING DOCUMENTATION (NFPA 72, 7.8.2)
- EMERGENCY RESPONSE PLAN (NFPA 72, 7.3.8)
- EVALUATION DOCUMENTATION (NFPA 72, 7.3.9)
- RISK ANALYSIS DOCUMENTATION (NFPA 72, 7.3.6)
- SOFTWARE & FIRMWARE CONTROL DOCUMENTATION (NFPA 72, 23.2.2)

DIVISION OF THE STATE ARCHITECT

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REGISTERED PROFESSIONAL ENGINEER IRWAN YOWANTO No. 17238 Exp. 06/30/2026 ELECTRICAL STATE OF CALIFORNIA

YOWANTO ENGINEERING, INC.
2705 TOWNE AVE., #C
POMONA, CA 91767
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consultant

COMMUNITY DAY SCHOOL SOUTH CAMPUS INTERIM HOUSING

2270 E AVE Q, PALMDALE, CA 93550

ANTELOPE VALLEY UNION HIGH SCHOOL DISTRICT

tBP project number: Project Number

file name:

drawn by: BC checked by: IY

date: 05/22/26

rev:	date:	description:

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drawing title:

FIRE ALARM LISTING, NOTES & DETAILS

drawing no.:

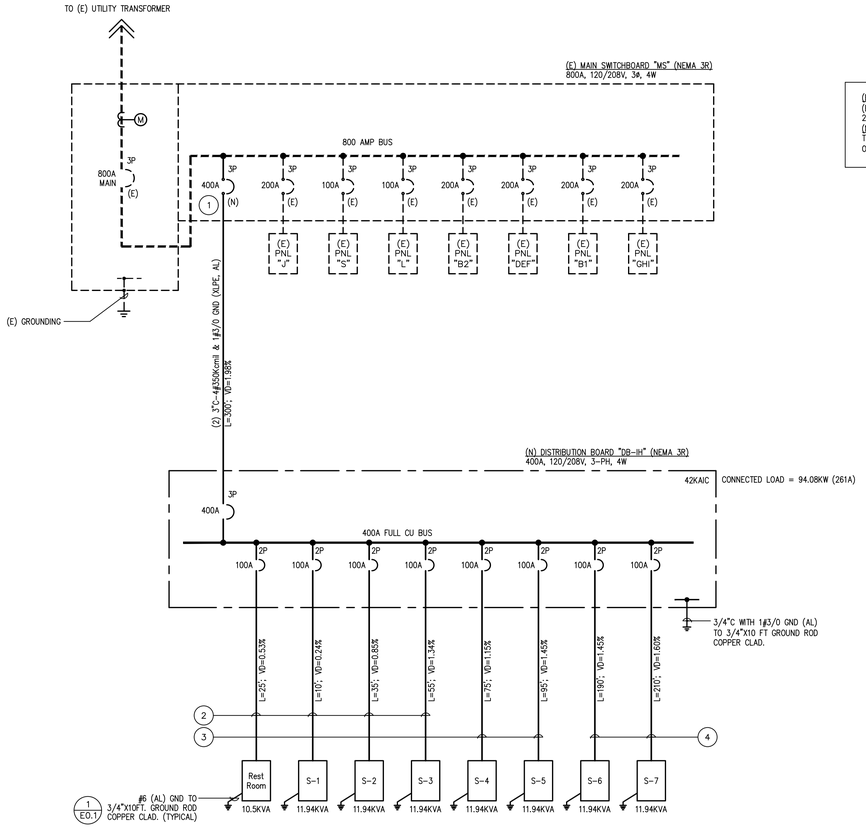
E3.1

NOTES

1. THE CONTRACTOR SHALL BALANCE ALL SINGLE PHASE LOADS ON PHASE A AND B.
2. ALL SWITCHBOARDS AND DISTRIBUTION BOARDS SHALL BE FULLY BUSSED.
3. PROVIDE CONTINUOUS GROUND BUSSING THROUGH ALL DISTRIBUTION BOARDS AND SWITCHBOARD SECTIONS.
4. SERIES RATING OF EQUIPMENT IS NOT ALLOWED.
5. CONTRACTOR SHALL BOND ALL METAL PIPING SYSTEMS AND EXPOSED STRUCTURAL STEEL PER NEC 250.104.
6. PROVIDE NAMEPLATES FOR ALL MISSING IDENTIFICATIONS, USE SCREW-ON TYPE.
7. PROVIDE AND INSTALL NEW IDENTIFICATION NAMEPLATES ON ALL PANELS AS INDICATED ON PANEL SCHEDULES.
8. REFERENCES FEEDER LOCATION SHOWN ON E1.1 SITE PLAN.
9. THE CONTRACTOR SHALL PROVIDE AND INSTALL A NEW CIRCUIT BREAKER OF THE RATING INDICATED ON THE SINGLE LINE DIAGRAM TO MATCH EXISTING IN MANUFACTURER, FUNCTION AND SHORT CIRCUIT DUTY. THE NEW CIRCUIT BREAKER SHALL BE COMPLETE WITH ALL REQUIRED MOUNTING HARDWARE.
10. GROUND RESISTANCE SHALL NOT EXCEED 25 OHMS.
11. CONTRACTOR SHALL BE RESPONSIBLE TO RELOCATE EXISTING CIRCUIT BREAKERS AND MAKE NECESSARY ADJUSTMENT TO EXISTING CONDUCTORS TO MAKE ROOM FOR NEW CIRCUIT BREAKER IN EXISTING SWITCHBOARD.
12. OVERHEAD CONDUCTORS SHALL BE LISTED FOR OVERHEAD AND SUN RESISTANT RATED AT 90°C.
13. UNDERGROUND CONDUCTORS SHALL BE LISTED FOR UNDERGROUND USE AND WET LOCATION RATED AT 90°C.
14. LUGS SHALL BE LISTED FOR CU/AL AND 90°C.
15. FEEDER SHALL BE ALUMINUM (XLPE INSULATION FOR OVERHEAD AND XHHW-2 IN CONDUIT) UNLESS OTHERWISE NOTED.

REFERENCE NOTES

1. INSTALL NEW CIRCUIT BREAKER AND MATCH EXISTING AIC RATING AND FRAME.
2. INSTALL STEEL REINFORCED ALUMINUM OVERHEAD SECONDARY CONDUCTORS (XLPE) BY ALCAN #HACKNEY OR APPROVED EQUAL.
3. INSTALL STEEL REINFORCED ALUMINUM OVERHEAD SECONDARY CONDUCTORS (XLPE) BY ALCAN #PALOMINO OR APPROVED EQUAL.
4. INSTALL STEEL REINFORCED ALUMINUM OVERHEAD SECONDARY CONDUCTORS (XLPE) BY ALCAN #GRULLO OR APPROVED EQUAL IN 1-1/2" CONDUIT FOR UNDERGROUND PORTION.



(E) SWITCHBOARD "MS" LOAD CALCULATION:	
(E) MAXIMUM ONE-YEAR DEMAND	85 KW
25% SAFETY FACTOR	21.25 KW
(N) PORTABLE CLASSROOMS	94.08 KW +
TOTAL CONNECTED LOAD	200.33KW
OR 556.5A AT 120/208V, 3ø, 4W	

SINGLE LINE DIAGRAM | 1

DIVISION OF THE STATE ARCHITECT

agency

tBP architecture planning interiors

tBP/Architecture
3990 Concurs Street, Suite 201
Ontario, CA 91764
ph: 949.673.0300 fx: 949.732.3895

architect

REGISTERED PROFESSIONAL ENGINEER IRWIN YOWANTO No. 17238 Exp. 06/30/2026 ELECTRICAL STATE OF CALIFORNIA

YOWANTO ENGINEERING, INC.
2705 TOWNE AVE., #C
POMONA, CA 91767
(909) 626-6291

consultant

COMMUNITY DAY SCHOOL
SOUTH CAMPUS
INTERIM HOUSING

2270 E AVE Q, PALMDALE, CA 93550

ANTELOPE VALLEY UNION HIGH SCHOOL DISTRICT

tBP project number: Project Number

file name:

drawn by: BC checked by: IY

date: 05/22/26

rev:	date:	description:

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drawing title:

SINGLE LINE DIAGRAM

drawing no.:

E4.1

SCOPE OF WORK

1. THE MANUFACTURER (OR PORTABLE/MODULAR PROVIDER) SHALL PROVIDE ALL LABOR AND MATERIALS PER PLAN UNLESS STATED OTHERWISE IN WRITTEN EXECUTED CONTRACT BETWEEN THE DISTRICT (OR OWNER). REFER TO THE GENERAL SPECIFICATIONS ON SHEET A0.1
2. CHANGES TO PLAN OR SCOPE OF WORK - NO ADDITIONAL WORK OR RE-WORK SHALL BE COMMENCED BY THE MANUFACTURER UNLESS STATED OTHERWISE IN WRITTEN EXECUTED CONTRACT BETWEEN THE DISTRICT (OR OWNER). HERE-SAY, TEXT MESSAGES, EMAILS AND SOCIAL MEDIA ARE NOT CONSIDERED WORK AUTHORIZATION. REFER TO THE GENERAL SPECIFICATION SHEET ON SHEET A0.1 FOR ADDITIONAL INFORMATION
3. THE DESIGN AND SCOPE OF WORK OF THE INCOMING SITE INSTRASTRUCTURE TO THE PORTABLE/MODULAR BUILDING SUCH AS POWER, WASTE, WATER, COMMUNICATION, AND FIRE ALARM ARE BY DISTRICT (OWNER). REFER TO THE GENERAL SPECIFICATION SHEET ON SHEET A0.1 FOR ADDITIONAL INFORMATION REGARDING WORK NOT INCLUDED
4. UPGRADED CLASSROOM FINISHES

OPERATIONS & MAINTENANCE

BUILDING MANUFACTURER SHALL LEAVE FOR THE BUILDING OWNER AT OCCUPANCY OPERATING INFORMATION FOR ALL APPLICABLE MECHANICAL AND ELECTRICAL FEATURES, MATERIALS, COMPONENTS AND DEVICES INSTALLED IN THE BUILDING RELATED TO EFFICIENT ENERGY USE. IN ADDITION, THE BUILDING MANUFACTURER SHALL LEAVE MAINTENANCE INFORMATION FOR ALL FEATURES, MATERIALS, COMPONENTS, AND MANUFACTURED DEVICES THAT REQUIRE ROUTINE MAINTENANCE FOR EFFICIENT OPERATION OF MECHANICAL EQUIPMENT AND LIGHTING SYSTEM

NOTES

A DSA CERTIFIED PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER), AND APPROVED BY THE THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-333 AND 4-342, PART 1, TITLE 24, CCR. CLASS R.B.I.P. FOR IN-PLANT INSPECTIONS.

SITE SPECIFIC:
COMPLY WITH CFC CHAPTERS 5 & 7, CBC CHAPTERS 3, 5, 7,11B & 14

NOTE: "THIS PC IS NOT APPROVED FOR CHAPTER 7A WILDLAND URBAN AREAS". THIS REVIEW IS PART OF THE SITE SPECIFIC PROJECT. THE APPROVAL OF THE PC DOES NOT INCLUDE THE SITE.

CAL GREEN NOTES

THIS BLDG WILL NOT BE PLACED IN ANY OF THE FOLLOWING LOCATIONS:

1. WITHIN THE 65 CNEL NOISE CONTOUR OF AN AIRPORT
2. WITHIN THE 65 CNEL OR LDN NOISE CONTOUR OF A FREEWAY, EXPRESSWAY, RAILROAD OR INDUSTRIAL SOURCE GUIDE WAY
3. WHERE EXPOSED TO NOISE LEVEL OF 65 DB LEQ-1-HR DURING ANY HOUR OF OPERATIONS

BUILDING CODES AND STANDARDS

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24, CCR
2022 CALIFORNIA BUILDING CODE (CBC) VOLUMES 1 & 2, PART 2, TITLE 24, CCR
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24, CCR
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, CCR
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, CCR)
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24, CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, CCR
2022 CALIFORNIA EXISTING BUILDING STANDARDS CODE (CEBC), PART 10, TITLE 24
2022 CALIFORNIA GREEN BUILDING STANDARD CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHALL REGULATIONS

APPLICABLE STANDARDS

FOR A LIST OF APPLICABLE STANDARDS, INCLUDING CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS, REFER TO 2022 CBC CHAPTER 35 AND CFC CHAPTER 80.

FIRE LIFE SAFETY

ALLOWABLE USES: THIS PC (OR BLDG) IS NOT APPROVED FOR 'A' OCCUPANCY

AUTOMATIC FIRE SPRINKLER SYSTEM: ☒ NOT REQUIRED / REQUIRED

(WHEN APPLICABLE) AUTOMATIC FIRE SPRINKLER SYSTEMS ARE PERMITTED TO BE HYDRAULICALLY CALCULATED, PER NFPA 13, TO MEET THE WATER SUPPLY AVAILABLE AT EACH SITE. PLANS FOR SUCH SYSTEMS MAY BE SUBMITTED AS A PLAN REVIEW SUBMITTAL, AND MAY NOT BE REVIEWED UTILIZING THE "OVER THE COUNTER" PROCESS. A COMPLETE AUTOMATIC FIRE SPRINKLER SYSTEM SUBMITTAL PACKAGE MUST BE PROVIDED AT THE TIME OF THE PLAN REVIEW SUBMITTAL.

THE ARCHITECT OF RECORD (DESIGNER) OR THE DIVISION OF THE STATE ARCHITECT WILL DETERMINE THE USE OF A FIRE SUPPRESSION SYSTEM UNLESS REQUIRED OTHERWISE BY THE TYPE OF CONSTRUCTION LISTED ON THE BUILDING DATA.

ALL GROUP 'E' OCCUPANCY BUILDING GREATER THAN 12,000 SF SHALL BE FIRE SPRINKLED PER CBC SECTION 903.2.3(1)

EXTERIOR PROJECTIONS ARE TO BE FIRE PROTECTED UNLESS PROJECTIONS COMPLY WITH CBC SECTION 705.2

MIN SETBACK FROM ASSUMED LOT LINE = 10'-0". LESS THAN 10'-0" SEE CBC TABLE 705.5

EXTERIOR WALL OPENINGS TO COMPLY WITH CBC TABLE 705.8

IN ROOMS OR AREAS WITH SPECIAL HAZARDS SUCH AS LABORATORIES, VOCATIONAL SHOPS AND OTHER SUCH AREAS WHERE HAZARDOUS MATERIALS IN EXEMPT AMOUNTS ARE USED OR STORED SHALL BE FIRE SPRINKLED PER CBC SECTION 903.2.3(4)

PERMANENT PORTABLE BUILDINGS: A PORTABLE BUILDING THAT IS USED TO SERVE OR HOUSE STUDENTS AND IS CERTIFIED, AS A PERMANENT PORTABLE BUILDING ON A NEW PUBLIC SCHOOL CAMPUS BY THE PUBLIC SCHOOL ADMINISTRATION SHALL COMPLY WITH THE REQUIREMENTS OF CBC SECTION 903.2.3

CONCRETE FOUNDATION (NOT PART OF THIS STOCKPILE)

THE CONCRETE BELOW GRADE FOUNDATION (AMM) OPTION IN THIS PC USES A DSA-APPROVED ALTERNATE MEANS OF COMPLIANCE FOR FOUNDATION DURABILITY REQUIREMENTS OF CBC SECTIONS 1402.2 AND 1403.2 FOR PROVIDING A WEATHER-RESISTANT EXTERIOR WALL ENVELOPE AND CONTINUOUS WATER-RESISTANT BARRIER ON WALLS DOWN TO THE FOUNDATION, AND CBC SECTION 2304.12.1.2 FOR PROTECTION AGAINST DECAY AND TERMITES.

ENERGY

1. THIS BLDG IS APPROVED FOR THE 2022 CALIFORNIA ENERGY CODE IN ALL CALIFORNIA CLIMATE ZONES USING EXTERIOR WOOD STUD FRAMING FOR WALL MOUNT SINGLE ZONE PACKAGED UNIT
2. THIS BLDG IS NOT APPROVED FOR THE 2022 CALIFORNIA ENERGY CODE IN CLIMATE 1-16 USING METAL STUD FRAMING
3. ACCEPTANCE TEST SHALL BE COMPLETED ON NEWLY INSTALLED OR REPLACEMENT OF LIGHTING CONTROLS, MECHANICAL SYSTEMS, FENESTRATION, AND PROCESS EQUIPMENT BEFORE PROJECT COMPLETION PER THE CALIFORNIA ENERGY CODE SECTION 10-103. ACCEPTANCE TEST MUST BE PERFORMED BY A CERTIFIED ACCEPTANCE TEST TECHNICIAN (ATT). THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES CORRECTED UNTIL THE INSTALLATION OF THE SPECIFIED SYSTEMS CONFORMS AND PASS THE REQUIRED ACCEPTANCE CRITERIA. COMPLETED NRCA FORMS SHALL BE SUBMITTED TO THE PROJECT INSPECTOR AND DISTRICT

NEXTMOD
6361 BOX SPRINGS ROAD, RIVERSIDE, CA 92570
OFFICE: (909) 740-3120, FAX: (909) 726-9470
WEBSITE: WWW.NEXTMODINC.COM

2022 CBC
MANUFACTURED RELOCATABLE & MODULAR CLASSROOM BUILDINGS
RISK CATEGORY II
(7) 24'X40' STOCKPILE BUILDING BASED OF PC 04-122454
SERIAL NUMBERS: 26-231-A/B THRU 26- 237-A/B

DRAWING SYMBOLS & LEGEND

- ✱ 2"x4" WOOD STUD
- ✱ 2"x6" WOOD STUD
- ✱ 2"x8" WOOD STUD
- 1 HR RATED (DARK LINE THROUGH SYMBOL)
- ✱ STC 40 REQUIRED WHEN USED FOR INTERIOR WALLS SEPARATING TENANTS OR PUBLIC SPACES. SEE INTERIOR WALL SCHEDULE ON SHEET A0.2
- INDICATES DOOR TYPE
- INDICATES WINDOW TYPE
- KEY NOTE SYMBOL
- INDICATES INTERIOR ELEVATION ORIENTATION
- INDICATES DETAIL #
- INDICATES SHEET #
- INDICATES DETAIL #
- INDICATES SHEET #
- INDICATES EXTERIOR ELEVATION #
- INDICATES SHEET #
- 5'-0" CLEAR FLOOR SPACE FOR WHEELCHAIR ACCESSIBLE MANEUVERING WITH 12" MIN. ENCROACHMENT
- 48"x30" CLEAR FLOOR SPACE FOR WHEELCHAIR ACCESS TO FIXTURE
- INDICATES ROOM NAME
- INDICATES ROOM NUMBER
- 60"x60" CLEAR FLOOR SPACE FOR WHEELCHAIR ENTRY ACCESS.
- WHEELCHAIR ACCESSIBLE CLEAR FLOOR SPACE AT ACCESSIBLE WATER CLOSET
- 60"x59" AT FLOOR MOUNTED WATER CLOSET
  60"x56" AT WALL MOUNTED WATER CLOSET
- GRID LINE NUMBER OR LETTER
- INDICATES CUT SECTION DETAIL#
- INDICATES SHEET #

NOTE: "N" DESIGNATE PROJECT SPECIFIC SHEET

SHEET INDEX

SHEET NO.	ARCHITECTURAL
A0.0N	TITLE SHEET
A0.0	TITLE SHEET
A0.1	SPECIFICATIONS AND NOTES
A0.2	CONSTRUCTION MATERIALS AND SPECIFICATIONS
A0.3	FINISH SCHEDULE
A0.3N	FINISH SCHEDULE
A0.4	SIGNAGE SPECIFICATIONS AND DETAILS
A0.6	CAL GREEN REQUIREMENTS
A0.8a	SAMPLE DSA 103 FORM WOOD FOUNDATION OR BUILDING STOCKPILE PROJECT
A0.9	CAL GREEN MANDATORY MEASURES
A0.10	CONSTRUCTION WASTE MANAGEMENT FORMS
A1.1	FLOOR PLAN 24'x40'
A1.1N	FLOOR PLAN
A2.0a	REFLECTED CEILING DETAILS
A2.0b	REFLECTED CEILING DSA NOTES
A2.1	REFLECTED CEILING PLAN 24'x40'
A2.1N	REFLECTED CEILING PLAN
A3.5	ROOF DETAILS-TPO
A3.6	ROOF PLAN MONO & DUAL SLOPE-TPO
A4.1	INTERIOR ELEVATIONS 24'x40'
A4.1N	INTERIOR ELEVATIONS
A5.1-A	EXTERIOR ELEVATIONS 24'x40'-WOOD SIDING OPTION 'A' (RIGHT HAND)
A5.1-AN	EXTERIOR ELEVATIONS
A5.1-B	EXTERIOR ELEVATIONS 24'x40'-WOOD SIDING OPTION 'B' (LEFT HAND)
A5.1-BN	EXTERIOR ELEVATIONS
A8.0	ARCHITECTURAL DETAILS WOOD STUD OPTION
A8.0N	ARCHITECTURAL DETAILS WOOD STUD OPTION
A8.1	ARCHITECTURAL DETAILS
A8.2	SHEET METAL AND FLASHING DETAILS
A8.2N	SHEET METAL AND FLASHING DETAILS
A13.0	ARCHITECTURAL BUILDING SECTIONS - MONO SLOPE

SHEET NO.	STRUCTURAL
S0.0a	STRUCTURAL NOTES AND SPECIFICATIONS
S0.0b	STRUCTURAL NOTES AND SPECIFICATIONS
S0.1	STRUCTURAL BUILDING SECTIONS - PLYWOOD FLOOR
S0.3	TYPICAL STRUCTURAL DETAILS
S1.0	FLOOR FRAMING DETAILS - PLYWOOD & CONCRETE
S1.1	FLOOR FRAMING PLAN - PLYWOOD
S2.0	ROOF FRAMING DETAILS
S2.1	ROOF TRUSS AND DETAILS
S2.2	ROOF FRAMING PLAN - PLYWOOD SHEATHING DIAPHRAGM
S3.0	WALL FRAMING DETAILS - WOOD STUD
S3.2	WALL FRAMING ELEVATIONS
S4.0	ALLOWABLE BEAM AND HEADER PENETRATION
	MECHANICAL
M0.0	MECHANICAL SCHEDULES AND NOTES
M0.1	MECHANICAL DETAILS
M1.1	MECHANICAL PLAN WALL MOUNT 24'x40'
M1.1N	MECHANICAL PLAN
M3.0	PC TITLE 24 REPORT WORST CASE SCENARIO (PERFORMANCE RUN)
M3.0N	TITLE 24 REPORT
M3.1	PC TITLE 24 REPORT WORST CASE SCENARIO (PERFORMANCE RUN)
M3.1N	TITLE 24 REPORT
M3.2	PC TITLE 24 REPORT WORST CASE SCENARIO (PERFORMANCE RUN)
M3.2N	TITLE 24 REPORT
	ELECTRICAL
E0.0	ELECTRICAL DETAILS
E1.0	ELECTRICAL PLAN 24'x40' (WALL MOUNTED HVAC)
E1.0N	ELECTRICAL PLAN
E4.0DL	SKYLIT & SIDELIT DAYLIT ZONE FLOOR PLANS 24'-48'x40'
E7.0	PC TITLE 24 REPORT WORST CASE SCENARIO CEC FORMS
E7.0N	TITLE 24 REPORT
E7.1	PC TITLE 24 REPORT WORST CASE SCENARIO CEC FORMS
E7.1N	TITLE 24 REPORT

FOUNDATION (NOT PART OF THIS STOCKPILE)
RELOCATING THIS STOCKPILE TO A SPECIFIC SITE WILL REQUIRE FOUNDATION PLANS AND DETAILS TO BE REVIEWED AND APPROVED UNDER A SEPARATE DSA APPLICATION. FOUNDATION SHALL BE PER CURRENT CODE EDITION EITHER PC OR SITE SPECIFIC. PCs #04-122454 OR #04-122167 MAYBE UTILIZED

RAMP, LANDING AND STAIR (NOT PART OF THIS BUILDING)

TOTAL SHEET COUNT: 61

DESIGN PARAMETERS

FLOOR LIVE LOAD: 100 PSF

ROOF LIVE LOAD: 20 PSF
GROUND SNOW LOAD MAXIMUM: 31 PSF FULLY EXPOSED, 28 PARTIALLY EXPOSED, 26 PSF SHELTERED

ROOF SNOW LOAD: 20 PSF MAX (ASCE 7-16 SEC 7.4)
Ce=0.9 FULLY EXPOSED, 1.0 PARTIALLY EXPOSED, 1.1 SHELTERED
I=1.0, Ct=1.0
FOR SNOW DRIFT, THE SITE APPLICATION DSA REVIEWER SHALL VERIFY THAT THE STRUCTURE IS TO BE LOCATED AT LEAST 20 FT FROM ANY ADJACENT STRUCTURE UNLESS A DRIFT ANALYS IS PROVIDED (NOT ACCEPTED AT AN OTC REVIEW)

FLOOD HAZARD AREA: NO

WIND DESIGN: (ASCE 7-16)
Kzt=1.0
WIND SPEED=130 MPH, RISK CATEGORY = II, EXPOSURE='C'
INTERNAL PRESSURE COEFFICIENT = ±0.18
COMPONENTS & CLADDING DESIGN BY PC ENGINEER OF RECORD

DESIGN ROOF DEAD LOAD: 15 PSF (BEAMS AND TRUSSES) INCLUDES 3.0 PSF FOR ROOF MOUNTED SOLAR PANELS

DESIGN FLOOR DEAD LOAD:
PLYWOOD FLOOR - 8 PSF (+15 W/ PARTITIONS),

EARTHQUAKE DESIGN DATA:
1. I=1.0, RISK CATEGORY=II
2. Ss=2.38 (MAX MAPPED VALUE)
   S1=1.389 (MAX MAPPED VALUE)
3. SITE CLASS=C AND D-DEFAULT
   Fa=1.2 & Fv=1.4
4. SDS=1.6, SD1=1.574
   SDS (BUILDING = 0.7 X SDS) = 1.6, SDS (COMPONENTS) = 2.29
5. SEISMIC DESIGN CATEGORY=E
6. LIGHT MODULAR STEEL MOMENT FRAME PER CBC SECTION 2212A
7. DESIGN BASE SHEAR=16113# (FOR 24' X 40' BUILDING), 22415# (FOR 36' X 40' BUILDING), AND 28716# (FOR 48' X 40' BUILDING)
8. Cs=0.381
9. R=3.5
10. EQUIVALENT LATERAL FORCE PROCEDURE
11. NO VERTICAL OR HORIZONTAL IRREGULARITIES
12. GROUND MOTION HAZARD ANALYSIS IS NOT REQUIRED PER ASCE 7-16, 11.4.8 EXCEPTION #2. VALUE OF Cs HAS BEEN DETERMINED BY EQN. 12.8-2 FOR A VALUE OF T<1.5 Ts
13. RHO = 1.0

GEOHAZARD REPORTS: THE DESIGN ARCHITECT IN GENERAL RESPONSIBLE CHARGE MUST DETERMINE IF A GEOHAZARD REPORT IS REQUIRED PER DSA IR A-4. IF REQUIRED, THE AOR SHALL VERIFY THAT THE GEOHAZARD REPORT IDENTIFIES NO SITE RELATED GEOLOGIC HAZARDS WHICH WOULD PRECLUDE THE USE OF THE PROPOSED PC DESIGN AT THE SITE, INCLUDING BUT NOT LIMITED TO LIQUEFACTION POTENTIAL, LANDSLIDE, FLOODING, EARTHQUAKE FAULT, ETC.

NOTES:
1. SITE CLASS A, B, C, AND D TO BE SUBSTANTIATED BY GEOTECHNICAL REPORT, SITE CLASS D- DEFAULT TO BE USED IN ABSENCE OF GEOTECHNICAL REPORT.
2. UNLESS A SITE SPECIFIC GROUND MOTION HAZARD ANALYSIS IS PERFORMED, THE Sm, VALUE INCREASED BY 50% SHALL BE LESS THAN THE DESIGN CRITERIA STATED HEREIN.

SEISMIC DESIGN FOR SITE SPECIFIC PROJECTS

SELECT ONE

☒ DESIGN BASED ON SITE CLASS D DEFAULT
NO GEOTECHNICAL INVESTIGATION REQUIRED
Ss = 1.502 Fa = 1.2

☐ DESIGN BASED ON SITE CLASS DETERMINED PER CHAPTER 20 OF ASCE 7-16
NO GEOTECHNICAL INVESTIGATION REQUIRED
SITE CLASS: ☐ C ☐ D ☐ E
Ss = _____ Fa = _____ PER ASCE 7-16 SUPPL 3 TABLE 11.4-1

☐ DESIGN BASED ON SITE CLASS GROUND MOTION HAZARD ANALYSIS PER CHAPTER 21 OF ASCE 7-16
SHORT-PERIOD DESIGN SPECTRAL RESPONSE PARAMETER, SDS, SHALL BE AS SPECIFIED IN GEOTECHNICAL INVESTIGATION
CGS APPROVAL REQUIRED
NOT ELIGIBLE FOR OTC REVIEW
SITE CLASS: ☐ C ☐ D ☐ E
Ss = _____ Fa = _____

SDS = 2/3 Fa Ss= 1.200 ≤ 1.904

Cs = 0.381 USED IN DESIGN
SEISMIC DESIGN CATEGORY: ☐ D ☒ E
ASCE 7-16 12.8.1.3 HAS NOT BEEN USED IN CALCULATION OF Sds

BUILDING DATA

TYPE OF CONSTRUCTION: V-B
BUILDING AREAS: 24'x40'=960 SF
OCCUPANCY: E
NO. OF STORIES: 1
ALLOWABLE AREA: 9,500 SF
MODULES: 12'x40'

STRUCTURAL DATA

STRUCTURAL DESIGN: ORDINARY MOMENT FRAME WITH CLEAR SPAN TRUSS

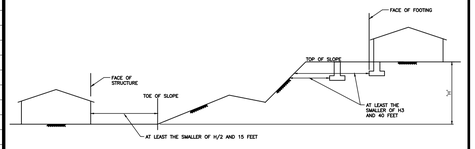
FOUNDATION: (NOT PART OF THIS STOCKPILE)

SEISMIC SEPARATION: 4 1/2" MIN FROM OTHER EXISTING OR FUTURE BUILDINGS MEASURED FROM ITS FARTHEST PROJECTION

THIS PC (OR BLDG) IS DESIGNED STRUCTURALLY TO SUPPORT THE WEIGHT OF A FIRE SPRINKLER SYSTEM

ALLOWABLE SOIL BEARING: WOOD FOUNDATION: SEE SHEET S0.0a
CONCRETE FOUNDATION: SEE SHEET S0.0a

MIN SET BACK FROM SLOPE



STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-125510 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/13/2026

NEXTMOD
6361 BOX SPRINGS ROAD, RIVERSIDE, CA 92570
OFFICE: (909) 740-3120, FAX: (909) 726-9470
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DISTRICT/CUSTOMER NAME:
NEXTMOD

SCHOOL/SITE NAME:
STOCKPILE

SHEET TITLE:
TITLE SHEET

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

PROFESSIONAL OF RECORD ON PC

FIRM: ORION STRUCTURAL ENGINEERING, INC.
ADDRESS: 11305 RANCHO BERNARDO ROAD, SUITE 121
CITY: SAN DIEGO, CA 92127
PHONE: (858) 679-1974

PROJECT SPECIFIC PROFESSIONAL OF RECORD

ORION
Structural Engineering, Inc.
11305 RANCHO BERNARDO RD
SUITE 121
SAN DIEGO CA, 92127
PHONE (858) 679-1974
REGISTERED PROFESSIONAL ENGINEER
RYAN T. ORION
No. S4217
EXP 12/31/26
STRUCTURAL
STATE OF CALIFORNIA

FIRM: Orion Structural Engineering, Inc.
ADDRESS: 11305 Rancho Bernardo Road Ste 121
CITY: San Diego, CA
PHONE: 858-679-1974

REVISIONS

1	-
2	-
3	-
4	-
5	-

PROJECT NO.:	00-0000
DRAFTER:	00
SCALE:	AS NOTED
DATE:	00-00-00

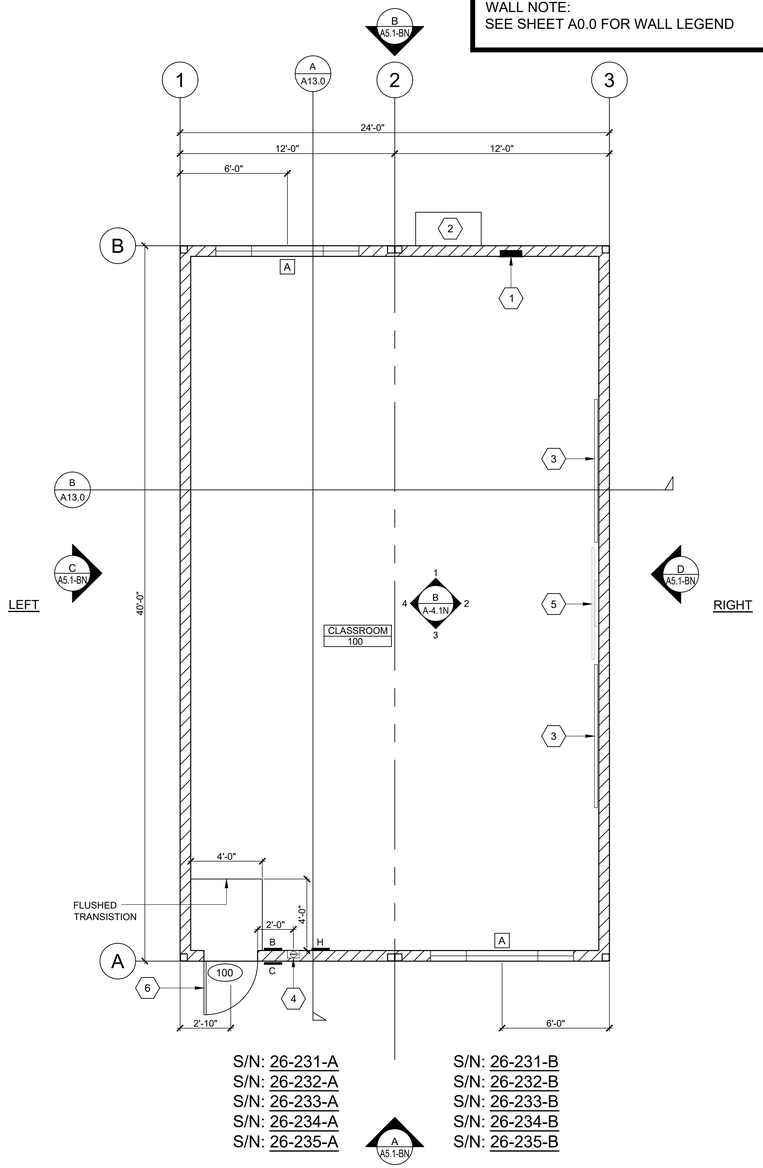
SHEET NUMBER

A0.0N

5/1/2026 11:56:03 AM

REAR

WALL NOTE:
SEE SHEET A0.0 FOR WALL LEGEND



S/N: 26-231-A
S/N: 26-232-A
S/N: 26-233-A
S/N: 26-234-A
S/N: 26-235-A

S/N: 26-231-B
S/N: 26-232-B
S/N: 26-233-B
S/N: 26-234-B
S/N: 26-235-B

A
A5.1-BN

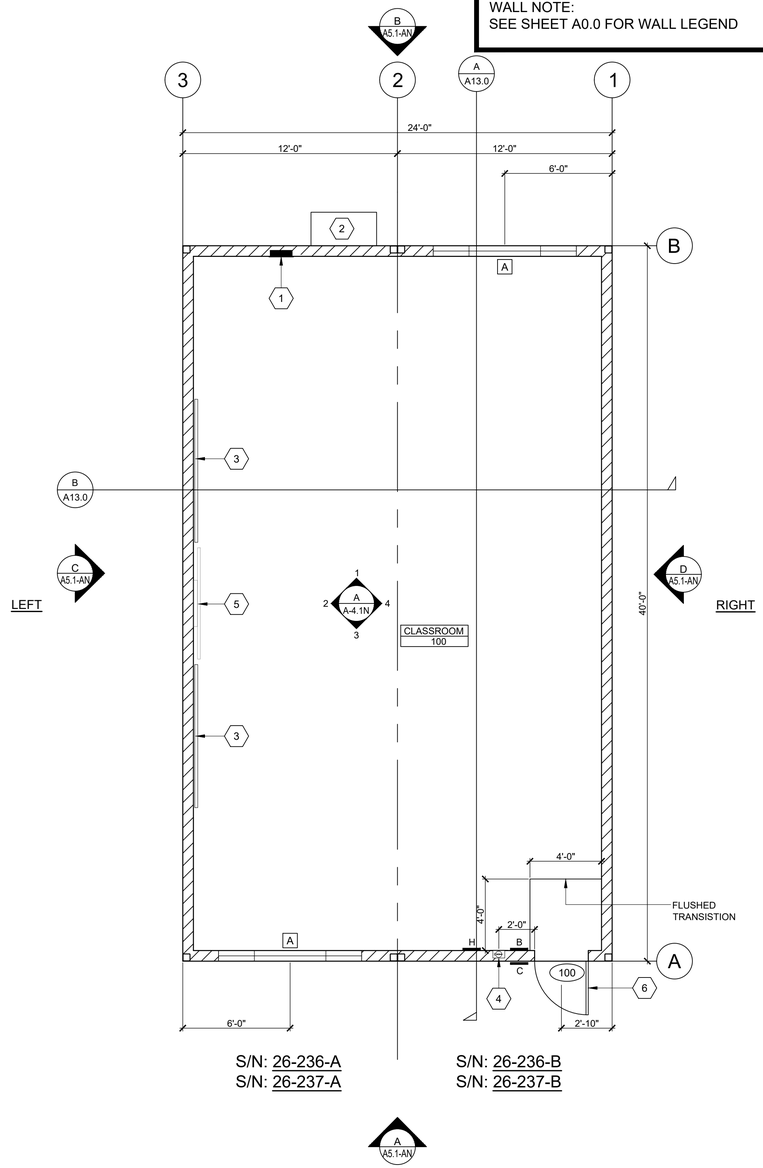
FLOOR PLAN

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

B

REAR

WALL NOTE:
SEE SHEET A0.0 FOR WALL LEGEND



S/N: 26-236-A
S/N: 26-237-A

S/N: 26-236-B
S/N: 26-237-B

A
A5.1-AN

FLOOR PLAN

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

A

KEY NOTES

1. ELECTRICAL PANEL (SEE #10/A8.1 AND ELECTRICAL SHEETS)
2. HEAT PUMP UNIT (SEE MECHANICAL SHEETS)
3. 8'x4' MARKER BOARDS +30" AFF
4. FIRE EXTINGUISHER-5 LB DRY CHEMICAL W/ 2-A:10-B:C UL RATING IN SIDE FULLY RECESSED CABINET, +48" AFF TO TOP OF HANDLE, 4" MAX PROJECTION. MODEL # 526-EL BY ELITE ARCHITECTURAL SERIES. SEE #4A/A8.1 FOR BLOCK-OUT
5. OFOI PROMETHEAN TV. NEXTMOD TO PROVIDE BLOCKING, POWER AND DATA ONLY
6. PRIMARY ENTRANCES SHALL REQUIRE A MIN 48" OVERHANG PER CALGREEN SECTION 5.407.2.2.1

SIGNAGE LEGEND

A. = ID SIGN - #1G/A0.4
B. = EXIT TACTILE SIGN - #1C/A0.4
C. = ID SIGN WITH ISA IDENTIFICATION - #1H,G/A0.4
D. = EXIT RAMP DOWN SIGN - #1E/A0.4
E. = NOT USED
F. = NOT USED
H. = ASSITIVE LISTENING SYSTEM SIGNAGE - #4/A0.4

OCCUPANT LOAD FORMULA

BUILDING SQUARE FOOTAGE:	960 SQ FT
OCCUPANT NET PER TABLE 1004.1.1:	20
MAXIMUM OCCUPANTS:	48

GENERAL NOTES

1. SIGNAGE REQUIRED PER APPLICABLE CODES LISTED ON COVER SHEET PROVIDED AND INSTALLED BY DISTRICT ON SITE, SEE ACCESS SHEET
2. WHEN USING A RAMP OPTION AS SHOWN NEXT TO AN ADJACENT WINDOW, IT MUST COMPLY WITH THE ILLUSTRATION ON 20/A8.0. THE FOLLOWING TWO OPTIONS CAN BE CONSIDERED:
   OPTION #1: USE A RAMP CONFIGURATION THAT IS AWAY FROM THE BUILDING
   OPTION #2: THE WINDOW SILL HEIGHT NEEDS TO BE ELEVATED OR LOCATED IN A MANNER TO ACCOMMODATE THE CODE COMPLIANCE ILLUSTRATION MENTIONED ON 20/A8.0. EXAMPLE USE AN 8X3 WINDOW AND SMALLER IN LIEU OF 8X4 WINDOW OR REMOVE THE WINDOW TRIM/MOULDING
3. WHEN RAMPS AND LANDINGS ARE USED, DOWNSPOUT DRAINAGE MUST DIVERT AWAY FROM CLEAR LANDING SPACE OR RAMP
4. ASSISTIVE LISTENING SYSTEM REQUIRED. SUPPLIED AND INSTALLED BY DISTRICT. NOT PART OF THIS PC.

STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-125510 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/13/2026

NEXTMOD
6361 BOX SPRINGS ROAD, RIVERSIDE, CA 92570
OFFICE: (909) 740-3120, FAX: (909) 726-9470
WEBSITE: WWW.NEXTMODINC.COM

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DISTRICT/CUSTOMER NAME:
NEXTMOD

SCHOOL/SITE NAME:
STOCKPILE

SHEET TITLE:

FLOOR PLAN

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

PROFESSIONAL OF RECORD ON PC

FIRM: ORION STRUCTURAL ENGINEERING, INC.
ADDRESS: 11305 RANCHO BERNARDO ROAD, SUITE 121
CITY: SAN DIEGO, CA 92127
PHONE: (858) 679-1974

PROJECT SPECIFIC PROFESSIONAL OF RECORD



FIRM: Orion Structural Engineering, Inc.
ADDRESS: 11305 Rancho Bernardo Road Ste 121
CITY: San Diego, CA
PHONE: 858-679-1974

REVISIONS

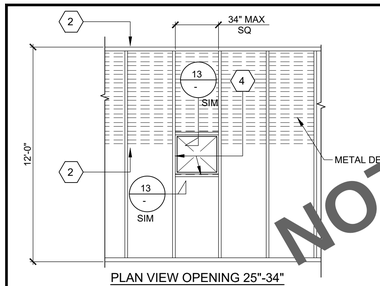
1	-
2	-
3	-
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PROJECT NO.:	00-0000
DRAFTER:	00
SCALE:	AS NOTED
DATE:	00-00-00

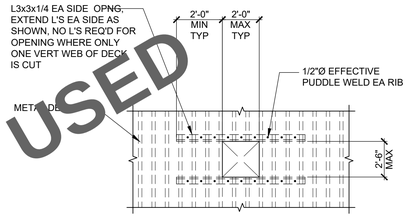
SHEET NUMBER

A1.1N

5/1/2026 11:10:31 AM



PLAN VIEW OPENING 25"-34"



PLAN VIEW OPENING UP TO 24"

NOTE: FRAMING TO BE FURNISHED AND INSTALLED WITH STRUCTURAL STEEL. INSTALL DECK CLOSURE AS REQUIRED WHERE OPENING OCCURS IN CONCRETE PAD ON METAL DECK.

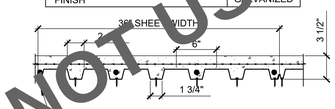
OPENINGS IN METAL DECK

SCALE: NTS

9

NOT USED

METAL FLOOR DECKING	
METAL DECK MIN SECTION PROPERTIES & DATA	
DECK DEPTH	1 1/2"
GAUGE	20
MOMENT OF INTERIA, I (IN.)	0.213
SECTION MODULUS S (+) (IN.)	0.30
S (-) (IN.)	0.37
FINISH	GALVANIZED



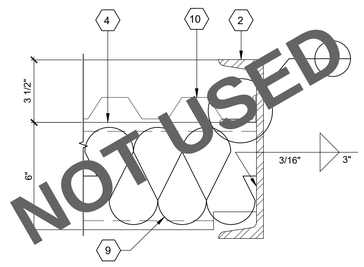
FASTENERS (PER DETAIL #3) AT PANEL SIDE AND SEAM. SEE NOTE 6 FOR ALTERNATE ATTACEHMENT

METAL FLOOR DECKING

SCALE: NTS

14

NOT USED



FLOOR JOIST TO CHANNEL (CONCRETE)

SCALE: 3" = 1'-0"

10

NOT USED

MINIMUM DECK CONNECTION ALL SUPPORTS:

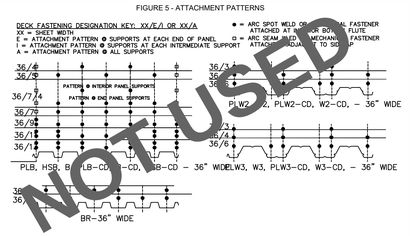
1/2"Ø EFFECTIVE ARC SPOT OR ARC SEAM (PUDDLE) WELDS AT ALL STEEL SUPPORTS. PUDDLE WELDS AT 12" OC PERPINDICULAR TO DECK FRAMING. 24" OC AT FRAMING PARALLEL TO DECK FRAMING. PROVIDE BUTTON PUNCH AT 24" OC @ ALL DECK SEAMS

NOTES:

1. DECK LAYOUT SHALL PROVIDE ALL DECK SHEETS OF SUFFICIENT LENGTH TO EXTEND CONTINUOUSLY OVER AT LEAST 3 SPANS
2. ENDS OF ADJOINING DECK SHEETS SHALL BE LAPPED 2"
3. NO SHORING IS REQUIRED FOR DECK, UNO
4. METAL B-DECK SHALL BE VERCO MANUFACTURING CO. PER IAMPO #ER-217 OR APPROVED EQUAL. DECK TO BE ASTM A653 SS DESIGNATION GRADE 50 MINIMUM.
5. LIGHT WEIGHT CONCRETE FLOOR SHALL BE REINFORCED WITH 6x6 W1.4xW1.4 WWF PLACED AT MID-DEPTH OF THE FLOOR OVER THE TOP FLUTE OF THE METAL DECK. 1 1/2" X 20 GA. B-DECK WITH 3 1/2" LIGHT WEIGHT CONCRETE FILL (2" OVER DECK FLUTES)
6. ALTERNATE ATTACHMENT OF B-DECK TO FLOOR JOIST: 'HILTI' X-ENP-19 L15 FASTENER OR EQUAL, 7 PINS PER SHEET TO PERPENDICULAR SUPPORTS PER ICC REPORT #ESR-2197. VSC2 AT 12" OC MAX. SEE DETAIL #14 FOR SELF-DRILLING SCREWS USE #14 X 1-1/4" MIN
7. LIGHT WEIGHT CONCRETE FLOOR SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS
8. SEE DETAIL #14 FOR ADDITIONAL INFORMATION

IAPMO UES Evaluation Report No. 0217
Issued: 11/2011

FIGURE 5 - ATTACHMENT PATTERNS



NOT USED

KEY NOTES

1. PLYWOOD FLOOR SHEATHING
2. PERIMETER CHANNEL (SEE STRUCTURAL FLOOR FRAMING PLANS)
3. LAG SCREWS FOR POSITIVE MODLINE CONNECTION AT ABOVE GRADE WOOD FOUNDATION CONDITION. REFER TO FOUNDATION SHEET FOR INFORMATION AND QUANITITY. DRILL 11/16 HOLE
4. FLOOR JOIST AND/OR BLOCK (SEE STRUCTURAL FLOOR FRAMING PLANS)
5. 5/8" MACHINE BOLT. SEE SHEET S0.1 OR S0.2 FOR SPACING
6. 2X BLOCK NAILER FOR HAND ACCESS HOLE CLOSE-UP. USE MIN #10 X 3" WOOD SCREWS
7. RE-SECURE PLYWOOD PIECE AND ATTACH TO 2X BLOCK WITH MIN (2) #10 X 3" WOOD SCREWS AT 6" Ø PIECE OR MIN (4) FASTENERS AT 6" SQ PIECE
8. 4"x6"x1/4" PLATE AT 8" CHANNEL SPLICE. 4"x8"x1/4" PLATE AT 10" CHANNEL SPLICE
9. SEE SHEET A0.2 FOR INSULATION VALUE. SEE #13/A8.1 FOR REF
10. METAL DECK FLOOR (SEE DETAIL 14)
11. NOT USED
12. MINIMUM 2"x2"x1/4" THICK PLATE. PLATE QUANTITY TO BE FIELD VERIFY
13. 2"x2"x1/4" ANGLE SUPPORT
14. NOT USED
15. NOT USED
16. INSULATION ON 'SEAL TITE' TYPE HW POLYMAX UNDERBELLY OR EQUAL WITH BI-DIRECTIONAL POLYESTER FIBERS
17. BOTTOM BOARD
18. FASTENERS TO MATCH BOUNDARY NAILING ALONG PERIMETER OF OPENING.

STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-125510 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/13/2026

SKC COMPANY
15345 FAIRFIELD RANCH ROAD, SUITE #160, CHINO, CA 91709
OFFICE: (909) 740-3120, FAX: (909) 726-9470
WEBSITE: WWW.SKCCOMPANY.COM
MANUFACTURER #MF127666 DEALER # DL1279666
GC LIC # 992118 SBE CERTIFIED

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DISTRICT/CUSTOMER NAME:
NEXTMOD

SCHOOL/SITE NAME:
STOCKPILE

SHEET TITLE:

FLOOR FRAMING DETAILS
PLYWOOD & CONCRETE

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122454 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 11/14/2023

PROFESSIONAL OF RECORD ON PC

ORION
Structural Engineering, Inc.
11305 RANCHO BERNARDO RD SUITE 121
SAN DIEGO CA, 92127
PHONE (858) 679-1974
BRIAN J. ORR
No. S6527
EXP: 12/31/24
STRUCTURAL
STATE OF CALIFORNIA
FIRM: Orion Structural Engineering, Inc.
ADDRESS: 11305 Rancho Bernardo Road Ste 121
CITY: San Diego, CA
PHONE: 858-679-1974

PROJECT SPECIFIC PROFESSIONAL OF RECORD

FIRM:
ADDRESS:
CITY:
PHONE:

REVISIONS

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2	-
3	-
4	-
5	-

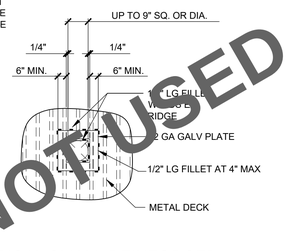
PROJECT NO.:	00-0000
DRAFTER:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

S1.0

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NOTE:
MAX. (2) ADJACENT WEBS CUT IF MORE THAN (2) WEBS ARE NOTCHED. SEE DETAIL #9



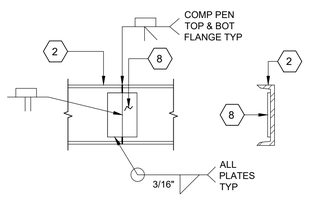
TYPICAL SMALL REINFORCED DECK OPENING UP TO 9" MAX

SCALE: NTS

15

NOT USED

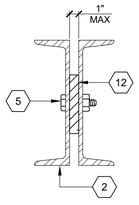
NOTE:
SPLICE MAY OCCUR AT ANY POINT MIN. 18" FROM BOLT LOCATION



CHANNEL SPLICE

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

11



ALTERNATE MODLINE ATTACHMENT

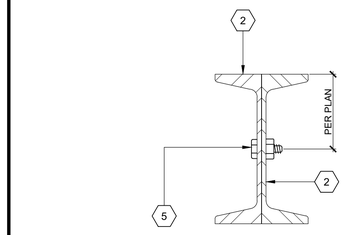
SCALE: 1 1/2" = 1'-0"

6

LIGHT WEIGHT CONCRETE FLOOR NOTES

SCALE: NTS

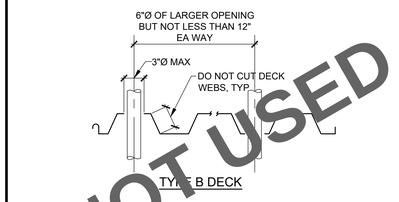
3



FLOOR FRAME AT MODLINE (PLY'D FLR)

SCALE: 3" = 1'-0"

1



TYPE B DECK

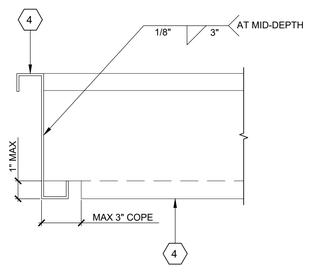
IF OPENING IS ONE CLOSER OR LARGER THAN SHOWN, REINFORCE DECK - SEE OTHER DETAILS

UNREINFORCED OPENING AT DECK

SCALE: NTS

16

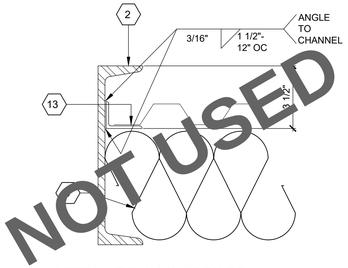
NOT USED



JOIST TO JOIST (WOOD)

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

12

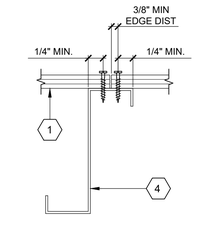


METAL DECK SUPPORT ANGLE ATTACHMENT

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

7

NOT USED

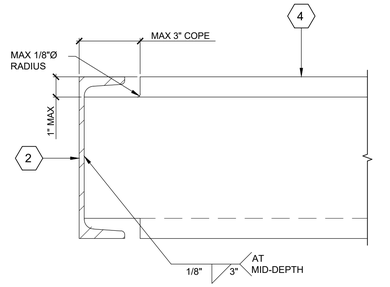


14 & 12 GAUGE

FLOOR JOIST

SCALE: 3" = 1'-0"

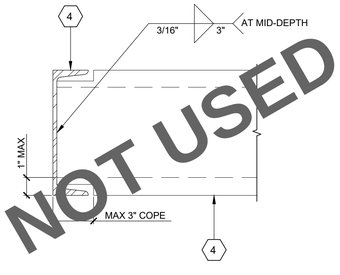
4



FLOOR JOIST TO CHANNEL-WOOD

SCALE: 3" = 1'-0"

2

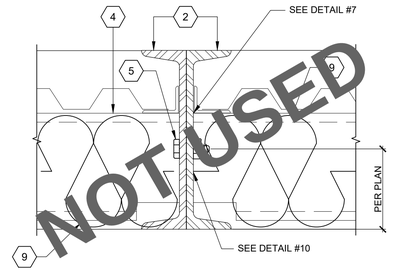


JOIST TO JOIST (CONCRETE)

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

13

NOT USED



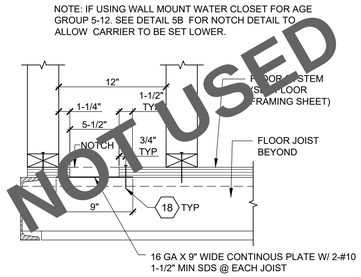
FLOOR FRAME AT MODLINE (CONCRETE)

SCALE: 3" = 1'-0"

8

NOT USED

NOTE: IF USING WALL MOUNT WATER CLOSET FOR AGE GROUP 5-12. SEE DETAIL 5B FOR NOTCH DETAIL TO ALLOW CARRIER TO BE SET LOWER.

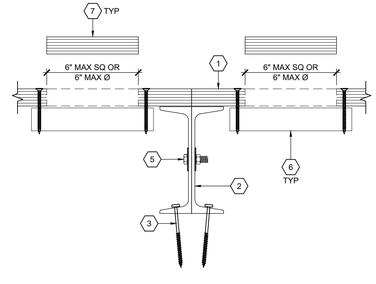


FLOOR NOTCH AT CHASE WALL JOIST DETAIL

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

5B

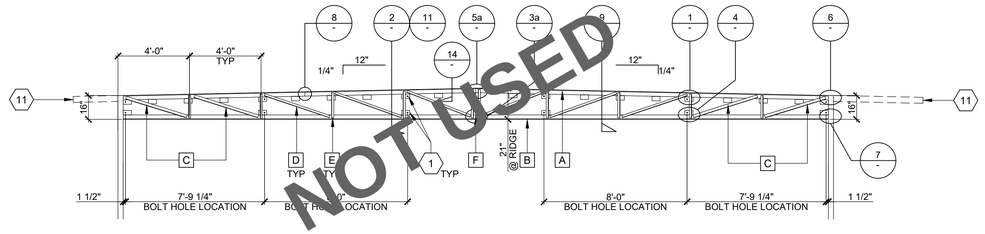
NOT USED



MODLINE PLYWOOD FLOOR HAND ACCESS HOLE

SCALE: 3" = 1'-0"

5A



DUAL SLOPE TRUSS AT MODLINE

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

A

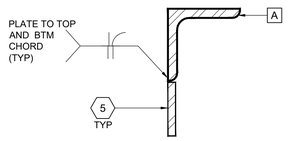
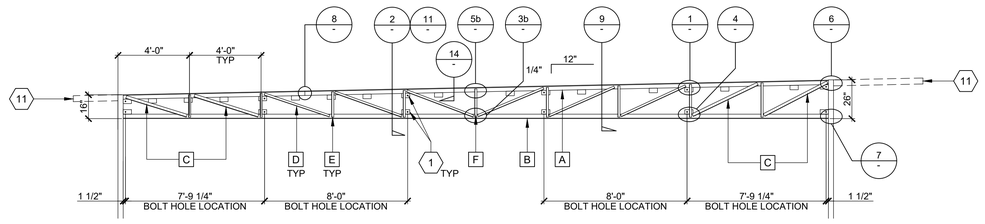


PLATE @ TOP CORD CONNECTION

SCALE: 3" = 1'-0"

14



MONO SLOPE TRUSS AT MODLINE

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

B

KEY NOTES

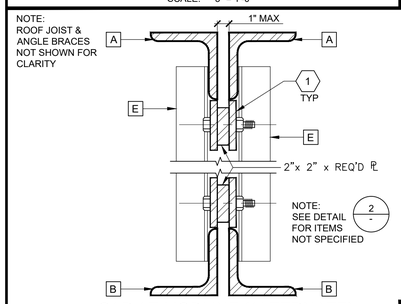
1. 3/8" X 3" x 5 1/2" PLATE (A-36 STEEL) WITH 11/16" HOLE FOR 5/8" MACHINE BOLT PLATES AT 8'-0" OC MAX WHERE OCCURS PER ELEVATION FOR MODULE CONNECTION SEE DETAIL 2
2. 5/8"Ø MACHINE BOLT AT 8'-0" OC MAX
3. 6" LONG x 1/4" BACK UP PLATE (A-36 STEEL)
4. 1/4" FULL DEPTH STIFFENER PLATE
5. 3/8" X 3" X 5 1/2" PLATE
6. NOT USED
7. STEEL ROOF JOIST
8. L-1 1/2" X 1 1/2" X 3/16" BRACE EACH SIDE @ 8'-0" OC MAX
9. STEEL COLUMN
10. STEEL STUB COLUMN
11. OVERHANG
12. WHERE DIAGONAL CHORD DOES NOT ACHIEVE MIN WELD PER DETAIL DUE TO TOLERANCES, USE ADDITIONAL PLATES AS REQUIRED. PLATES SHALL MEET THE SAME SIZE AND GRADE PER KEYNOTE #01. WELD ADDITIONAL PLATE PER DETAIL #2/-

GENERAL NOTES

1. ALL STEEL GRADES TO BE A-36 PER SHEET S0.0a
2. REQUIRED ELECTRODES FOR ALL WELDS TO BE E-70-XX OR EQUAL
3. VOLTAGE & AMPERAGE SHALL BE PER ELECTRODE MANUFACTURES SPECS
4. BOLTS & NUTS TO BE A307

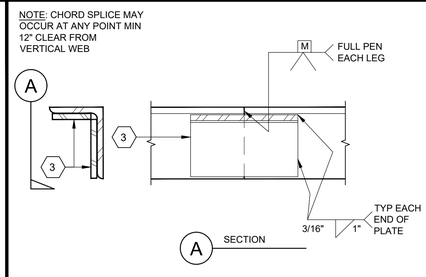
TRUSS SCHEDULE

A	TOP CHORD	L-3" X 3" X 3/8"
B	BOTTOM CHORD	L-3" X 3" X 3/8"
C	1ST & 2ND DIAGONAL	L-2" X 2" X 3/16" - 4" TOTAL WELD COMBINED
D	TYPICAL DIAGONAL	L-1 1/2" X 1 1/2" X 3/16" - 1-1/2" FILLET WELD AT EACH SIDE EACH END.
E	TYPICAL VERTICAL	L-1 1/2" X 1 1/2" X 3/16" - 1-1/2" FILLET WELD AT EACH SIDE EACH END.
F	CAMBER	5/8" AT MIDSPAN



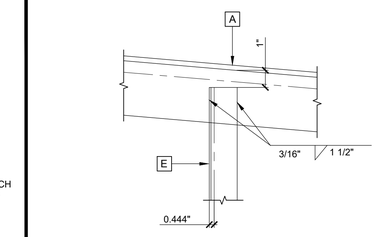
GAP AT MODLINE (ALTERNATE)

11



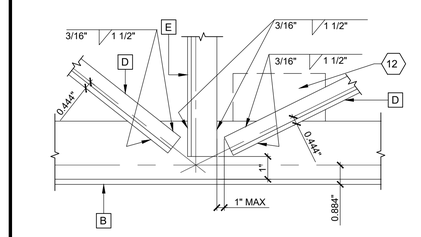
TRUSS CHORD SPLICE

8



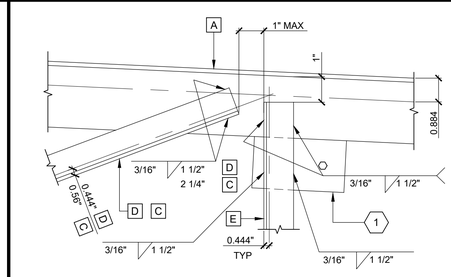
TOP CHORD @ MIDPOINT (MONO SLOPE)

5b



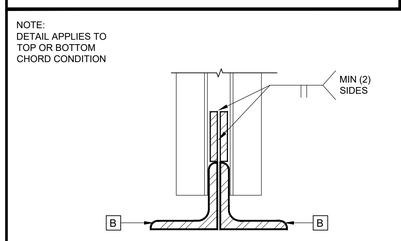
BOTTOM CHORD @ MID SPAN (MONO SLOPE)

3b



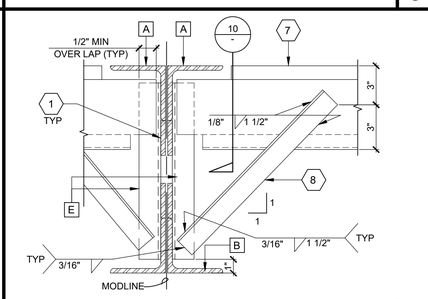
VERTICLE & DIAGONAL TOP CHORD

1



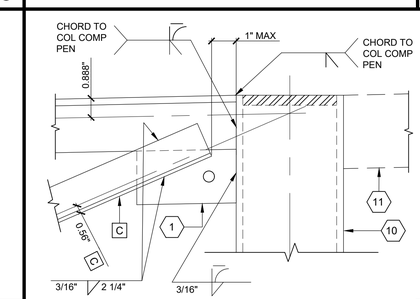
ALTERNATE ATTACHMENT AT MISALIGNED BOLT CONNECTION

12



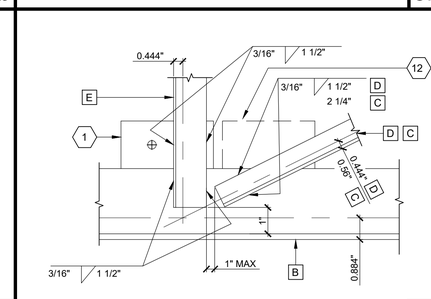
TRUSS TO ROOF JOIST BRACING

9



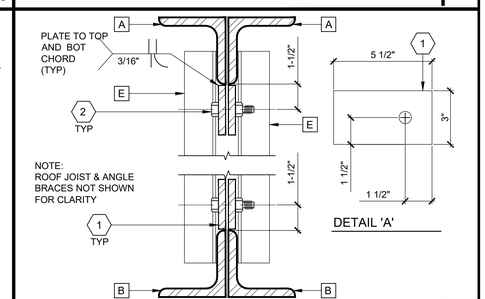
POST CONNECTION TO TRUSS (TOP)

6



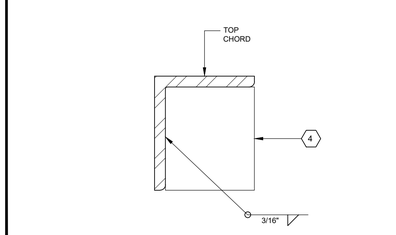
VERT & DIAG TO BOTTOM CHORD

4



TIE PLATE MODLINE CONNECTION

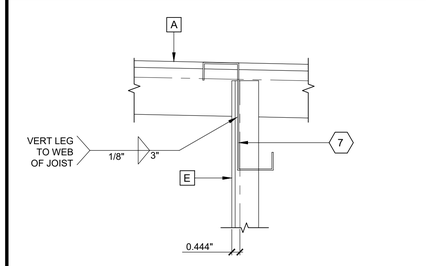
2



SECTION AT TRUSS RIDGE

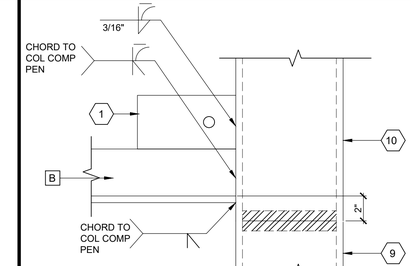
SCALE: 6" = 1'-0"

13



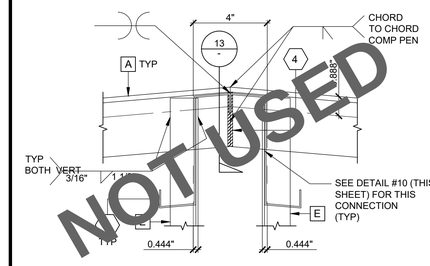
STEEL JOIST TO VERTICAL LEG

10



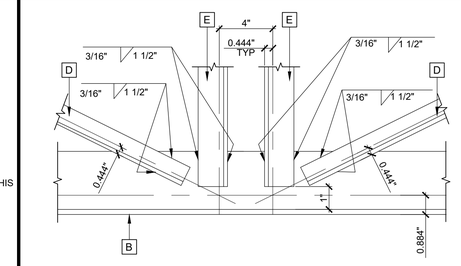
POST CONN TO TRUSS (BOTTOM)

7



TOP CHORD @ MID-POINT (DUAL SLOPE)

5a



BOTTOM CHORD AT MID-POINT (DUAL SLOPE)

3a

STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-125510 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/13/2026

SKC COMPANY
15345 FAIRFIELD RANCH ROAD, SUITE #160, CHINO, CA 91709
OFFICE: (909) 740-3120, FAX: (909) 726-9470
WEBSITE: WWW.SKCCOMPANY.COM
MANUFACTURER #MF1279666 DEALER # DL1279666
GC LIC # 992118 SBE CERTIFIED

ALL DESIGNS INDICATED ON THESE PLANS/DRAWINGS ARE PROPERTY OF SKC, INC AND ARE FOR THE USE BY SKC IN THE SPECIFIED JOB ONLY. THEY SHALL NOT BE USED AND/OR DUPLICATED OR TRANSMITTED IN ANY FORM, FOR ANY PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF SKC, INC. ANY UNAUTHORIZED USE OF THESE PLANS SHALL SUBJECT THE OWNER OF SAID PROPERTY TO LIQUIDATED DAMAGES OF $75,000.00. THESE PLANS ARE PROTECTED UNDER THE PROVISIONS OF THE 1976 COPYRIGHT ACT COPYRIGHT SKC, © ALL RIGHTS RESERVED.

DISTRICT/CUSTOMER NAME:
NEXTMOD

SCHOOL/SITE NAME:
STOCKPILE

SHEET TITLE:
ROOF TRUSS AND DETAILS

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122454 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 11/14/2023

PROFESSIONAL OF RECORD ON PC

ORION
Structural Engineering, Inc.
11305 RANCHO BERNARDO RD
SUITE 121
SAN DIEGO CA, 92127
PHONE (858) 679-1974

STEVEN T. ORION
EXP: 12/31/24
STRUCTURAL
STATE OF CALIFORNIA

FIRM: Orion Structural Engineering, Inc.
ADDRESS: 11305 Rancho Bernardo Road Ste 121
CITY: San Diego, CA
PHONE: 858-679-1974

PROJECT SPECIFIC PROFESSIONAL OF RECORD

FIRM:
ADDRESS:
CITY:
PHONE:

REVISIONS

1	-
2	-
3	-
4	-
5	-

PROJECT NO.:	00-0000
DRAFTER:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER
S2.1

10/31/2023 12:05:19 PM

SCOPE OF WORK

1. THE MANUFACTURER (OR PORTABLE/MODULAR PROVIDER) SHALL PROVIDE ALL LABOR AND MATERIALS PER PLAN UNLESS STATED OTHERWISE IN WRITTEN EXECUTED CONTRACT BETWEEN THE DISTRICT (OR OWNER). REFER TO THE GENERAL SPECIFICATIONS ON SHEET A0.1

2. CHANGES TO PLAN OR SCOPE OF WORK - NO ADDITIONAL WORK OR RE-WORK SHALL BE COMMENCED BY THE MANUFACTURER UNLESS STATED OTHERWISE IN WRITTEN EXECUTED CONTRACT BETWEEN THE DISTRICT (OR OWNER). HERE-SAY, TEXT MESSAGES, EMAILS AND SOCIAL MEDIA ARE NOT CONSIDERED WORK AUTHORIZATION. REFER TO THE GENERAL SPECIFICATION SHEET ON SHEET A0.1 FOR ADDITIONAL INFORMATION

3. THE DESIGN AND SCOPE OF WORK OF THE INCOMING SITE INSTRASTRUCTURE TO THE PORTABLE/MODULAR BUILDING SUCH AS POWER, WASTE, WATER, COMMUNICATION, AND FIRE ALARM ARE BY DISTRICT (OWNER). REFER TO THE GENERAL SPECIFICATION SHEET ON SHEET A0.1 FOR ADDITIONAL INFORMATION REGARDING WORK NOT INCLUDED

OPERATIONS & MAINTENANCE

BUILDING MANUFACTURER SHALL LEAVE FOR THE BUILDING OWNER AT OCCUPANCY OPERATING INFORMATION FOR ALL APPLICABLE MECHANICAL AND ELECTRICAL FEATURES, MATERIALS, COMPONENTS AND DEVICES INSTALLED IN THE BUILDING RELATED TO EFFICIENT ENERGY USE. IN ADDITION, THE BUILDING MANUFACTURER SHALL LEAVE MAINTENANCE INFORMATION FOR ALL FEATURES, MATERIALS, COMPONENTS, AND MANUFACTURED DEVICES THAT REQUIRE ROUTINE MAINTENANCE FOR EFFICIENT OPERATION OF MECHANICAL EQUIPMENT AND LIGHTING SYSTEM

NOTES

A DSA CERTIFIED PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER), AND APPROVED BY THE THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-333 AND 4-342, PART 1, TITLE 24, CCR. CLASS R.B.I.P. FOR IN-PLANT INSPECTIONS.

SITE SPECIFIC:
COMPLY WITH CFC CHAPTERS 5 & 7, CBC CHAPTERS 3, 5, 7,11B & 14

NOTE: "THIS PC IS NOT APPROVED FOR CHAPTER 7A WILDLAND URBAN AREAS". THIS REVIEW IS PART OF THE SITE SPECIFIC PROJECT. THE APPROVAL OF THE PC DOES NOT INCLUDE THE SITE.

CAL GREEN NOTES

THIS PC WILL NOT BE PLACED IN ANY OF THE FOLLOWING LOCATIONS:

1. WITHIN THE 65 CNEL NOISE CONTOUR OF AN AIRPORT

2. WITHIN THE 65 CNEL OR LDN NOISE CONTOUR OF A FREEWAY, EXPRESSWAY, RAILROAD OR INDUSTRIAL SOURCE GUIDE WAY

3. WHERE EXPOSED TO NOISE LEVEL OF 65 DB LEQ-1-HR DURING ANY HOUR OF OPERATIONS

BUILDING CODES AND STANDARDS

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24, CCR
2022 CALIFORNIA BUILDING CODE (CBC) VOLUMES 1 & 2, PART 2, TITLE 24, CCR
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24, CCR
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, CCR
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, CCR)
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24, CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, CCR
2022 CALIFORNIA EXISTING BUILDING STANDARDS CODE (CEBC), PART 10, TITLE 24
2022 CALIFORNIA GREEN BUILDING STANDARD CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHALL REGULATIONS

APPLICABLE STANDARDS

FOR A LIST OF APPLICABLE STANDARDS, INCLUDING CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS, REFER TO 2022 CBC CHAPTER 35 AND CFC CHAPTER 80.

FIRE LIFE SAFETY

ALLOWABLE USES: THIS PC (OR BLDG) IS NOT APPROVED FOR 'A' OCCUPANCY

AUTOMATIC FIRE SPRINKLER SYSTEM: ☐ NOT REQUIRED / REQUIRED ☐

(WHEN APPLICABLE) AUTOMATIC FIRE SPRINKLER SYSTEMS ARE PERMITTED TO BE HYDRAULICALLY CALCULATED, PER NFPA 13, TO MEET THE WATER SUPPLY AVAILABLE AT EACH SITE. PLANS FOR SUCH SYSTEMS MAY BE SUBMITTED AS A PLAN REVIEW SUBMITTAL, AND MAY NOT BE REVIEWED UTILIZING THE "OVER THE COUNTER" PROCESS. A COMPLETE AUTOMATIC FIRE SPRINKLER SYSTEM SUBMITTAL PACKAGE MUST BE PROVIDED AT THE TIME OF THE PLAN REVIEW SUBMITTAL.

THE ARCHITECT OF RECORD (DESIGNER) OR THE DIVISION OF THE STATE ARCHITECT WILL DETERMINE THE USE OF A FIRE SUPPRESSION SYSTEM UNLESS REQUIRED OTHERWISE BY THE TYPE OF CONSTRUCTION LISTED ON THE BUILDING DATA.

ALL GROUP 'B' OCCUPANCY ARE NOT REQUIRED TO BE FIRE SPRINKLED UNO REQUIRED BY SITE ANALYSIS

EXTERIOR PROJECTIONS ARE TO BE FIRE PROTECTED UNLESS PROJECTIONS COMPLY WITH CBC SECTION 705.2

MIN SETBACK FROM ASSUMED LOT LINE = 10'-0". LESS THAN 10'-0" SEE CBC TABLE 705.5

EXTERIOR WALL OPENINGS TO COMPLY WITH TABLE 705.8

CONCRETE FOUNDATION

THE CONCRETE BELOW GRADE FOUNDATION (ARM) OPTION IN THIS PC USES A DSA-APPROVED ALTERNATE MEANS OF COMPLIANCE FOR FOUNDATION DURABILITY REQUIREMENTS OF CBC SECTIONS 1402.2 AND 1903.2 FOR PROVIDING A WEATHER-RESISTANT EXTERIOR WALL ENVELOPE AND CONTINUOUS WATER-RESISTANT BARRIER ON WALLS DOWN TO THE FOUNDATION, AND CBC SECTION 2304.12.1.2 FOR PROTECTION AGAINST DECAY AND TERMITES.

ENERGY

1. THIS PC IS APPROVED FOR THE 2022 CALIFORNIA ENERGY CODE IN ALL CALIFORNIA CLIMATE ZONES USING EXTERIOR WOOD STUD FRAMING FOR WALL MOUNT SINGLE ZONE PACKAGED UNIT AND ROOFTOP PACKAGED UNITS ONLY

2. THIS PC IS NOT APPROVED FOR THE 2022 CALIFORNIA ENERGY CODE IN CLIMATE 1-16 USING METAL STUD FRAMING

3. ACCEPTANCE TEST SHALL BE COMPLETED ON NEWLY INSTALLED OR REPLACEMENT OF LIGHTING CONTROLS, MECHANICAL SYSTEMS, FENESTRATION, AND PROCESS EQUIPMENT BEFORE PROJECT COMPLETION PER THE CALIFORNIA ENERGY CODE SECTION 10-103. ACCEPTANCE TEST MUST BE PERFORMED BY A CERTIFIED ACCEPTANCE TEST TECHNICIAN (ATT). THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES CORRECTED UNTIL THE INSTALLATION OF THE SPECIFIED SYSTEMS CONFORMS AND PASS THE REQUIRED ACCEPTANCE CRITERIA. COMPLETED NRCA FORMS SHALL BE SUBMITTED TO THE PROJECT INSPECTOR AND DISTRICT

NOTE: THE USE OF THESE PLANS ARE FOR NEWLY BUILT STOCKPILE BUILDINGS BEING RELOCATED TO A SITE FOR THE FIRST TIME

KSC COMPANY
15345 FAIRFIELD RD, SUITE 160, CHINO HILLS, CA 91709
OFFICE: (909) 740-3120, FAX: (909) 726-9470
WEBSITE: WWW.SKCCOMPANY.COM
MANUFACTURER #MF1279666 DEALER # DL1279666
GC LIC # 992118 SBE CERTIFIED

2022 CBC
MANUFACTURED RELOCATABLE & MODULAR CLASSROOM BUILDINGS
RISK CATEGORY II
PC 04-122454
24'X40' THRU 120'X40'

DRAWING SYMBOLS & LEGEND

- ✱ 2"x4" WOOD STUD
- ✱ 2"x6" WOOD STUD
- ✱ 2"x8" WOOD STUD
- 1 HR RATED (DARK LINE THROUGH SYMBOL)
- ✱ STC 40 REQUIRED WHEN USED FOR INTERIOR WALLS SEPARATING TENANTS OR PUBLIC SPACES. SEE INTERIOR WALL SCHEDULE ON SHEET A0.2
- INDICATES DOOR TYPE
- INDICATES WINDOW TYPE
- KEY NOTE SYMBOL
- INDICATES INTERIOR ELEVATION ORIENTATION
- INDICATES DETAIL #
- INDICATES SHEET #
- INDICATES DETAIL #
- INDICATES SHEET #
- INDICATES EXTERIOR ELEVATION #
- INDICATES SHEET #
- 5'-0" CLEAR FLOOR SPACE FOR WHEELCHAIR ACCESSIBLE MANEUVERING WITH 12" MIN. ENCROACHMENT
- 48"x30" CLEAR FLOOR SPACE FOR WHEELCHAIR ACCESS TO FIXTURE
- INDICATES ROOM NAME
- INDICATES ROOM NUMBER
- 60"x60" CLEAR FLOOR SPACE FOR WHEELCHAIR ENTRY ACCESS.
- WHEELCHAIR ACCESSIBLE CLEAR FLOOR SPACE AT ACCESSIBLE WATER CLOSET
- 60"x59" AT FLOOR MOUNTED WATER CLOSET 60"x56" AT WALL MOUNTED WATER CLOSET
- GRID LINE NUMBER OR LETTER
- INDICATES CUT SECTION DETAIL#
- INDICATES SHEET #

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~~A0.3~~	~~FINISH SCHEDULE~~
~~A0.4~~	~~SIGNAGE SPECIFICATIONS AND DETAILS~~
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~~A0.6~~	~~CAL GREEN REQUIREMENTS~~
~~A0.7~~	~~CTG CONSTRUCTION DETAILS (INTERIOR WALLS)~~
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~~E2.0SR~~	~~ELECTRICAL PLAN 36'x40' (WALL MOUNTED HVAC) SOLAR READY~~
~~E2.1~~	~~ELECTRICAL PLAN 36'x40' (ROOF MOUNTED HVAC)~~
~~E2.1SR~~	~~ELECTRICAL PLAN 36'x40' (ROOF MOUNTED HVAC) SOLAR READY~~
~~E5.0~~	~~ELECTRICAL PLAN 48'x40' (WALL MOUNTED HVAC)~~
~~E5.0SR~~	~~ELECTRICAL PLAN 48'x40' (WALL MOUNTED HVAC) SOLAR READY~~
~~E5.1~~	~~ELECTRICAL PLAN 48'x40' (ROOF MOUNTED HVAC)~~
~~E5.1SR~~	~~ELECTRICAL PLAN 48'x40' (ROOF MOUNTED HVAC) SOLAR READY~~
~~E4.0DL~~	~~SKYLIT & SIDELIT DAYLIT ZONE FLOOR PLANS 24' 48'x40'~~
~~E4.1DL~~	~~SKYLIT & SIDELIT DAYLIT ZONE FLOOR PLANS 68'-120'x40'~~
~~E5.0~~	~~SOLATUBE WIRING AND DAYLIGHT HARVESTING~~
~~E6.0~~	~~ELECTRICAL LIGHTING CONTROL & SEQUENCE OF OPERATION~~
~~E7.0~~	~~PC TITLE 24 REPORT- WORST CASE SCENARIO CEC FORMS~~
~~E7.1~~	~~PC TITLE 24 REPORT- WORST CASE SCENARIO CEC FORMS~~
~~E7.2~~	~~PC TITLE 24 REPORT- WORST CASE SCENARIO CEC FORMS~~
~~E8.0~~	~~PC PHOTOVOLTAIC AND BATTERY STORAGE CAPACITY TABLES~~
	PLUMBING
~~P0.0~~	~~PLUMBING SCHEDULE AND DETAILS~~
~~P1.0~~	~~PLUMBING PLAN 24'X40' JANITOR, AND DRINKING FOUNTAIN OPTION~~
~~P1.0A~~	~~PLUMBING PLAN 24'X40' "A", "A-1", & "A-1.1" ADULT AGES 13+~~
~~P1.0B~~	~~PLUMBING PLAN 24'X40' "B", & "B-1" COMBINED AGES 5-12~~
~~P1.0C~~	~~PLUMBING PLAN 24'X40' "C" & "C-1" COMBINED AGES 3-8~~
~~P2.0~~	~~PLUMBING PLAN 36'X40' JANITOR, AND DRINKING FOUNTAIN OPTION~~
~~P2.0A~~	~~PLUMBING PLAN 36'X40' "A", "A-1", & "A-1.1" ADULT AGES 13+~~
~~P2.0B~~	~~PLUMBING PLAN 36'X40' "B" & "B-1" COMBINED AGES 5-12~~
~~P2.0C~~	~~PLUMBING PLAN 36'X40' "C" & "C-1" COMBINED AGES 3-8~~
~~P3.0~~	~~PLUMBING PLAN 48'X40' JANITOR, AND DRINKING FOUNTAIN OPTION~~
~~P3.0A~~	~~PLUMBING PLAN 48'X40' "A", "A-1", & "A-1.1" ADULT AGES 13+~~
~~P3.0B~~	~~PLUMBING PLAN 48'X40' "B" & "B-1" COMBINED AGES 5-12~~
~~P3.0C~~	~~PLUMBING PLAN 48'X40' "C" & "C-1" COMBINED AGES 3-8~~
~~P6.0~~	~~PC TITLE 24 REPORT- WORST CASE SCENARIO PLUMBING FORMS~~
	RAMP, LANDING AND STAIR (NOT PART OF THIS PC)
	TOTAL SHEET COUNT: ~~136~~ 5

DESIGN PARAMETERS

FLOOR LIVE LOAD: ~~50 PSF~~, 50+15 PSF, ~~100 PSF & 125 PSF~~

ROOF LIVE LOAD: 20 PSF
GROUND SNOW LOAD MAXIMUM: 31 PSF FULLY EXPOSED, 28 PARTIALLY EXPOSED, 26 PSF SHELTERED

ROOF SNOW LOAD: 20 PSF MAX (ASCE 7-16 SEC 7.4)
Ce=0.9 FULLY EXPOSED, 1.0 PARTIALLY EXPOSED, 1.1 SHELTERED
I=1.0, Ct=1.0
FOR SNOW DRIFT, THE SITE APPLICATION DSA REVIEWER SHALL VERIFY THAT THE STRUCTURE IS TO BE LOCATED AT LEAST 20 FT FROM ANY ADJACENT STRUCTURE UNLESS A DRIFT ANALYS IS PROVIDED (NOT ACCEPTED AT AN OTC REVIEW)

FLOOD HAZARD AREA: NO

WIND DESIGN: (ASCE 7-16)
Kzt=1.0
WIND SPEED=110 MPH, RISK CATEGORY = II, EXPOSURE='C'
INTERNAL PRESSURE COEFFICIENT = ±0.18
COMPONENTS & CLADDING DESIGN BY PC ENGINEER OF RECORD

~~DESIGN ROOF DEAD LOAD: 15 PSF (BEAMS AND TRUSSES) INCLUDES 3.0 PSF FOR ROOF MOUNTED SOLAR PANELS~~

DESIGN FLOOR DEAD LOAD:
PLYWOOD FLOOR - 8 PSF (+15 W/ PARTITIONS),
~~CONCRETE DECK - 31 PSF (+15 W/ PARTITIONS)~~

EARTHQUAKE DESIGN DATA:
1. I=1.0, RISK CATEGORY=II
2. Ss=2.38 (MAX MAPPED VALUE)
   S1=1.389 (MAX MAPPED VALUE)
3. SITE CLASS=C AND D-DEFAULT
   Fa=1.2 & Fv=1.4
4. Sds=1.6, Sd1=1.574
   Sds (BUILDING = 0.7 X Sds) = 1.6, Sds (COMPONENTS) = 2.29
5. SEISMIC DESIGN CATEGORY=E
6. LIGHT MODULAR STEEL MOMENT FRAME PER CBC SECTION 2212A
7. DESIGN BASE SHEAR=16113# (FOR 24' X 40' BUILDING), 22415# (FOR 36' X 40' BUILDING), AND 28716# (FOR 48' X 40' BUILDING)
8. Cs=0.381
9. R=3.5
10. EQUIVALENT LATERAL FORCE PROCEDURE
11. NO VERTICAL OR HORIZONTAL IRREGULARITIES
12. GROUND MOTION HAZARD ANALYSIS IS NOT REQUIRED PER ASCE 7-16, 11.4.8
    EXCEPTION #2. VALUE OF Cs HAS BEEN DETERMINED BY EQN. 12.8-2 FOR A VALUE OF T<1.5 Ts
13. RHO = 1.0

GEOHAZARD REPORTS: THE DESIGN ARCHITECT IN GENERAL RESPONSIBLE CHARGE MUST DETERMINE IF A GEOHAZARD REPORT IS REQUIRED PER DSA IR A-4. IF REQUIRED, THE AOR SHALL VERIFY THAT THE GEOHAZARD REPORT IDENTIFIES NO SITE RELATED GEOLOGIC HAZARDS WHICH WOULD PRECLUDE THE USE OF THE PROPOSED PC DESIGN AT THE SITE, INCLUDING BUT NOT LIMITED TO LIQUEFACTION POTENTIAL, LANDSLIDE, FLOODING, EARTHQUAKE FAULT, ETC.

NOTES:
1. SITE CLASS A, B, C, AND D TO BE SUBSTANTIATED BY GEOTECHNICAL REPORT, SITE CLASS D- DEFAULT TO BE USED IN ABSENCE OF GEOTECHNICAL REPORT.

2. UNLESS A SITE SPECIFIC GROUND MOTION HAZARD ANALYSIS IS PERFORMED, THE Sm, VALUE INCREASED BY 50% SHALL BE LESS THAN THE DESIGN CRITERIA STATED HEREIN.

SEISMIC DESIGN FOR SITE SPECIFIC PROJECTS

SELECT ONE

☒ DESIGN BASED ON SITE CLASS D DEFAULT
NO GEOTECHNICAL INVESTIGATION REQUIRED
Ss = 1.502 Fa = 1.2

☐ DESIGN BASED ON SITE CLASS DETERMINED PER CHAPTER 20 OF ASCE 7-16
NO GEOTECHNICAL INVESTIGATION REQUIRED
SITE CLASS: ☐ C ☐ D ☐ E
Ss = _____ Fa = _____ PER ASCE 7-16 SUPPL 3 TABLE 11.4-1

☐ DESIGN BASED ON SITE CLASS GROUND MOTION HAZARD ANALYSIS PER CHAPTER 21 OF ASCE 7-16
SHORT-PERIOD DESIGN SPECTRAL RESPONSE PARAMETER, Sds, SHALL BE AS SPECIFIED IN GEOTECHNICAL INVESTIGATION
CGS APPROVAL REQUIRED
NOT ELIGIBLE FOR OTC REVIEW
SITE CLASS: ☐ C ☐ D ☐ E
Ss = _____ Fa = _____

Sds = 2/3 Fa Ss= 1.200 < 1.904

Cs = 0.381 USED IN DESIGN
SEISMIC DESIGN CATEGORY: ☐ D ☒ E
ASCE 7-16 12.8.1.3 HAS NOT BEEN USED IN CALCULATION OF Sds

BUILDING DATA

TYPE OF CONSTRUCTION: V-B

OCCUPANCY: E NO. OF STORIES: 1

ALLOWABLE AREA: 9,500 SF

MODULES: 12'x40'

BUILDING AREAS:
- ☒ 24'x40'=960 SF
- ☐ 36'x40'=1,440 SF
- ☐ 48'x40'=1,920 SF
- ☐ 60'x40'=2,400 SF
- ☐ 72'x40'=2,880 SF
- ☐ 84'x40'=3,360 SF
- ☐ 96'x40'=3,840 SF
- ☐ 108'X40'=4,320 SF **
- ☐ 120'X40'=4,800 SF **

** GREATER THAN 4000 SQFT REQ. GEOHARZARD REPORT

STRUCTURAL DATA

STRUCTURAL DESIGN: ORDINARY MOMENT FRAME WITH CLEAR SPAN TRUSS

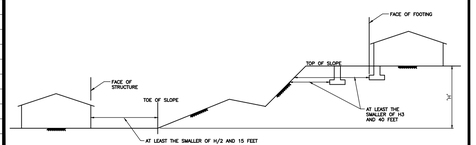
FOUNDATION:
- ☒ WOOD PAD < 2160 SF: 50, 50+15, 100 & 125 PSF (CONDITIONAL)
- ☐ ABOVE GRADE CONCRETE: 50, 50+15, 100 & 125 PSF
- ☐ FLUSH TO GRADE CONCRETE < 2160 SF: 50, 50+15, 100 & 125 PSF (CONDITIONAL)
- ☐ FLUSH TO GRADE CONCRETE > 2160 SF: 50, 50+15, 100 & 125 PSF

SEISMIC SEPARATION: 4 1/2" MIN FROM OTHER EXISTING OR FUTURE BUILDINGS MEASURED FROM ITS FARTHEST PROJECTION

THIS PC (OR BLDG) IS DESIGNED STRUCTURALLY TO SUPPORT THE WEIGHT OF A FIRE SPRINKLER SYSTEM

ALLOWABLE SOIL BEARING: WOOD FOUNDATION: SEE SHEET S0.0a
~~CONCRETE FOUNDATION: SEE SHEET S0.0a~~

MIN SET BACK FROM SLOPE



STATE AGENCY APPROVAL

KSC COMPANY
15345 FAIRFIELD RANCH ROAD, SUITE #160, CHINO, CA 91709
OFFICE: (909) 740-3120, FAX: (909) 726-9470
WEBSITE: WWW.SKCCOMPANY.COM
MANUFACTURER #MF1279666 DEALER # DL1279666
GC LIC # 992118 SBE CERTIFIED

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DISTRICT/CUSTOMER NAME:
ANTELOPE UNION
HIGH SCHOOL DISTRICT

SCHOOL/SITE NAME:
SOARS
HIGH SCHOOL

SHEET TITLE:
TITLE SHEET

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122454 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 11/14/2023

PROFESSIONAL OF RECORD ON PC

ORION
Structural Engineering, Inc.
11305 RANCHO BERNARDO RD SUITE 121
SAN DIEGO CA, 92127
PHONE (858) 679-1974



DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC

Application Number: 04-122454	School Name: 24 thru 120x40	School District: SKC Compnay
DSA File Number: PC-116	Increment Number:	Date Created: 2023-10-10 16:39:15

2022 CBC

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).

**NOTE: Undefined section and table references found in this document are from the CBC, or California Building Code.

KEY TO COLUMNS

1. TYPE	2. PERFORMED BY
Continuous – Indicates that a continuous special inspection is required Periodic – Indicates that a periodic special inspection is required Test – Indicates that a test is required	GE (Geotechnical Engineer) – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative. LOR (Laboratory of Record) – Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program, See CAC Section 4-335. PI (Project Inspector) – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA. SI (Special Inspection) – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINIUM), 2022 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8		
Application Number: 04-122454	School Name: 24 thru 120x40	School District: SKC Compnay
DSA File Number: PC-116	Increment Number:	Date Created: 2023-10-10 16:39:15

S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES:				
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Verify identification of all materials and: - Mill certificates indicate material properties that comply with requirements, - Material sizes, types and grades comply with requirements.	Periodic	*	Table 1705A.2.1 Item 3a-3c; 2202A.1; AISI S100-20 Section A3.1 & A3.2, AISI S240-20 Section A3 & A5, AISI S220-20 Sections A4 & A6. * By special inspector or qualified technician when performed off-site.
☑	b. Test unidentified materials	Test	LOR	2202A.1.
☑	c. Examine seam welds of HSS shapes	Periodic	SI	DSA IR 17-3.
☑	d. Verify and document steel fabrication per DSA-approved construction documents.	Periodic	SI	Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4).
☐	e. Buckling restrained braces.	Test	LOR	Testing and special inspections in accordance with IR 22-4.

S/A2. HIGH-STRENGTH BOLTS:				
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA-approved documents.	Periodic	SI	Table 1705A.2.1 Items 1a & 1b, 2202A.1; AISC 360-16 Section A3.3, J3.1, and N5.2; RCSC 2014 Section 1.3 & 2.1; DSA IR 17-1 & DSA IR 17-9.
☐	b. Test high-strength bolts, nuts and washers.	Test	LOR	Table 1705A.2.1 Item 1c; 2213A.1; RCSC 2014 Section 7.2; DSA IR 17-1.
☐	c. Bearing-type ("snug tight") connections.	Periodic	SI	Table 1705A.2.1 Item 2a, 1705A.2.6, 2204A.2; AISC 360-16 J3.1, J3.2, M2.3 & N5.6; RCSC 2014 Section 8.1; DSA IR 17-9.
☐	d. Pretensioned and slip-critical connections.	*	SI	Table 1705A.2.1 Items 2b & 2c, 1705A.2.6, 2204A.2; AISC 360-16 J3.1, J3.2, M2.3 & N5.6; RCSC 2014 Sections 9.2 & 9.3; DSA IR 17-9. *"Continuous" or "Periodic" depends on the tightening method used.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINIUM), 2022 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8		
Application Number: 04-122454	School Name: 24 thru 120x40	School District: SKC Compnay
DSA File Number: PC-116	Increment Number:	Date Created: 2023-10-10 16:39:15

S/A3. WELDING:				
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Verify weld filler material identification markings per AWS designation listed on the DSA approved documents and the WPS.	Periodic	SI	Table 1705A.2.1 Items 5a.1–4; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.
☑	b. Verify weld filler material manufacturer's certificate of compliance.	Periodic	SI	DSA IR 17-3.
☑	c. Verify WPS, welder qualifications and equipment.	Periodic	SI	DSA IR 17-3.

S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3):				
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Inspect groove welds, multi-pass fillet welds, single-pass fillet welds ≤ 5/16", plug and slot welds.	Continuous	SI	Table 1705A.2.1 Items 5a.1–4; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
☑	b. Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds.	Periodic	SI	Table 1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
☐	c. Inspect welding of stairs and railing systems.	Periodic	SI	1705A.2.3; AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3.
☐	d. Verification of reinforcing steel weldability other than ASTM A706.	Periodic	SI	1705A.3.1; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
☐	e. Inspect welding of reinforcing steel.	Continuous	SI	Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8; AWS D1.4; DSA IR 17-3.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINIUM), 2022 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8		
Application Number: 04-122454	School Name: 24 thru 120x40	School District: SKC Compnay
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	Test or Special Inspection	Type	Performed By	Code References and Notes
	S/A5. FIELD WELDING (IN ADDITION TO SECTION S/A3):			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds ≤ 5/16", plug and slot welds.	Continuous	SI	Table 1705A.2.1 Items 5a.1–4; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.
☐	b. Inspect single-pass fillet welds ≤ 5/16".	Periodic	SI	Table 1705A.2.1 Item 5a.5; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.
☐	c. Inspect end-welded studs (ASTM A-108) installation (including bend test).	Periodic	SI	2213A.2; AISC 360-16 (AISC 341-16 as applicable); AWS D1.1; DSA IR 17-3.
☐	d. Inspect floor and roof deck welds.	Periodic	SI	1705A.2.2, Table 1705A.2.1 Item 5a.6; AISC 360-16 (AISC 341-16 as applicable); AWS D1.3; DSA IR 17-3.
☐	e. Inspect welding of structural cold-formed steel.	Periodic	SI*	1705A.2.5; AWS D1.3; DSA IR 17-3. The quality control provisions of AISI S240-20 Chapter D shall also apply. * May be performed by the project inspector when specifically approved by DSA.
☐	f. Inspect welding of stairs and railing systems.	Periodic	SI*	1705A.2.3 ; AISC 360-16 (AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3. * May be performed by the project inspector when specifically approved by DSA.
☐	g. Verification of reinforcing steel weldability.	Periodic	SI	1705A.3.1; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
☐	h. Inspect welding of reinforcing steel.	Continuous	SI	Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8; AWS D1.4; DSA IR 17-3.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINIUM), 2022 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8		
Application Number: 04-122454	School Name: 24 thru 120x40	School District: SKC Compnay
DSA File Number: PC-116	Increment Number:	Date Created: 2023-10-10 16:39:15

	Test or Special Inspection	Type	Performed By	Code References and Notes
	S/A6. NONDESTRUCTIVE TESTING:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Ultrasonic	Test	LOR	1705A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.
☑	b. Magnetic Particle	Test	LOR	1705A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.
☐	c.	Test	LOR	

	S/A7. STEEL JOISTS AND TRUSSES:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Verify size, type and grade for all chord and web members as well as connectors and weld filler material; verify joist profile, camber and cambers (if applicable); verify all weld locations, lengths and profiles; mark or tag each joist.	Continuous	SI	1705A.2.3; Table 1705A.2.3; AWS D1.1; DSA IR 22-3 for steel joists only. 1705A.2.4; AWS D1.3 for cold-formed steel trusses.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINIUM), 2022 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

Application Number: 04-122454	School Name: 24 thru 120x40	School District: SKC Compnay
DSA File Number: PC-116	Increment Number:	Date Created: 2023-10-10 16:39:15

	Test or Special Inspection	Type	Performed By	Code References and Notes
	S/A8. SPRAYED FIRE-RESISTANT MATERIALS:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Examine structural steel surface conditions, inspect application, take samples, measure thickness and verify compliance of all aspects of application with DSA-approved documents.	Periodic	SI	1705A.15; 1705A.1, 1705A.2, 1705A.3, 1705A.4.
☐	b. Test density.	Test	LOR	1705A.15.1, 1705A.15.5, ASTM E736
☐	c. Bond strength adhesion/cohesion.	Test	LOR	1705A.15.1, 1705A.15.4, ASTM E605

	S/A9. ANCHOR BOLTS AND ANCHOR RODS:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Anchor Bolts and Anchor Rods	Test	LOR	Sample and test anchor bolts and anchor rods not readily identifiable per procedures noted in DSA IR 17-11.
☐	b. Threaded rod not used for foundation anchorage.	Test	LOR	Sample and test threaded rods not readily identifiable per procedures noted in DSA IR 17-11.

	S/A10. STORAGE RACK SYSTEMS:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Materials used, to verify compliance with one or more of the material test reports in accordance with the approved construction documents.	Periodic	SI	Table 1705A.13.7
☐	b. Fabricated storage rack elements.	Periodic	SI	1704A.2.5; Table 1705A.13.7

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINIUM), 2022 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8		
Application Number: 04-122454	School Name: 24 thru 120x40	School District: SKC Compnay
DSA File Number: PC-116	Increment Number:	Date Created: 2023-10-10 16:39:15

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	c. Storage rack anchorage installation.	Periodic	SI	ANSI/MH16.1 Section 7.3.2; Table 1705A.13.7
☐	d. Completed storage rack system to indicate compliance with the approved construction documents.	Periodic	SI*	Table 1705A.13.7. * May be preformed by the project inspector when specifically approved by DSA.

	S/A11. Other Steel			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a.			

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

Application Number: 04-122454	School Name: 24 thru 120x40	School District: SKC Compnay
DSA File Number: PC-116	Increment Number:	Date Created: 2023-10-10 16:39:15

Exempt items given in DSA IR A-22 or the 2019 CBC (including DSA amendments) and those items identified below with a check mark by the design professional are NOT subject to DSA requirements for the structural tests / special inspections noted. Items marked as exempt shall be identified on the approved construction documents. The project inspector shall verify all construction complies with the approved construction documents.

	SOILS:
☐	1. Deep foundations acting as a cantilever footing with a design based on minimum allowable pressures per CBC Table 1806A.2 and without a geotechnical report for the following cases: A) free standing sign or scoreboard, B) cell or antenna towers and poles less than 35'-0" tall (e.g., lighting poles, flag poles, poles supporting open mesh fences, etc.), C) single-story structure with dead load less than 5 psf (e.g., open fabric shade structure), or D) covered walkway structure with an apex height less than 10'-0" above adjacent grade.
☐	2. Shallow foundations, etc. are exempt from special inspections and testing by a Geotechnical Engineer for the following cases: A) buildings without a geotechnical report and meeting the exception item #1 criteria in CBC Section 1803A.2 supported by native soil (any excavation depth) or fill soil (not exceeding 12" depth per CBC Section 1804A.6), B) soil scarification/recompaction not exceeding 12" depth, C) native or fill soil supporting exterior non-structural flatwork (e.g., sidewalks, site concrete ramps, site stairs, parking lots, driveways, etc.), D) unpaved landscaping and playground areas, or E) utility trench backfill.

	CONCRETE/MASONRY:
☐	1. Post-installed anchors for the following: A) exempt non-structural components (e.g., mechanical, electrical, plumbing equipment - see item 7 for "Welding" in the Appendix below) given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) or B) interior nonstructural wall partitions meeting criteria listed in exempt item 3 for "Welding" in the Appendix below
☐	2. Concrete batch plant inspection is not required for items given in CBC Section 1705A.3.3.2 subject to the requirements and limitations in that section.
☐	3. Non-bearing non-shear masonry walls may be exempt from certain DSA masonry testing and special inspection items as allowed per DSA IR 21-1. Refer to construction documents for specific exemptions accordingly for each applicable wall condition.
☐	4. Epoxy shear dowels in site flatwork and/or other non-structural concrete.

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

Application Number: 04-122454	School Name: 24 thru 120x40	School District: SKC Compnay
DSA File Number: PC-116	Increment Number:	Date Created: 2023-10-10 16:39:15

	CONCRETE/MASONRY:
☐	5. Testing of reinforcing bars is not required for items given in CBC Section 1910A.2 subject to the requirements and limitations in that section.

	WELDING:
☐	1. Solid-clad and open-mesh fences, gates with maximum leaf span of 10', and gates with a maximum rolling section of 10' all having an apex height less than 8'-0" above nearest grade or walking surface. Also exempt when used above circulation or occupied space below, these gates/fences are not located within 1.5x gate/fence height (max 8'-0") to the edge of floor or roof.
☐	2. Handrails, guardrails, and modular or relocatable ramps associated with walking surfaces less than 30" above adjacent grade (excluding post base connections per the 'Exception' language in Section 1705A.2.1); fillet welds shall not be ground flush.
☐	3. Non-structural interior cold-formed steel framing spanning less than 15'-0", such as in interior partitions, interior soffits, etc. supporting only self weight and light-weight finishes or adhered tile, masonry, stone, or terra cotta veneer no more than 5/8" thickness and apex less than 20'-0" in height and not over an exit way. Maximum tributary load to a member shall not exceed the equivalent of that occurring from a 10'x10' opening in a 15' tall wall for a header or king stud.
☐	4. Manufactured support frames and curbs using hot rolled or cold-formed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment weighing less than 2000# (equipment only) (connections of such frames to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).
☐	5. Manufactured components (e.g., Tolco, B-Line, Afcon, etc.) for mechanical, electrical, or plumbing hanger support and bracing (connections of such components to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).
☐	6. TV Brackets, projector mounts with a valid listing (see DSA IR A-5) and recreational equipment (e.g., playground structures, basketball backstops, etc.) (connections of such elements to superstructure elements using welding will require special inspection as noted in selected item(s) for sections S/A3, S/A4 and/or S/A5 located in the Steel/Aluminum category of listing above).
☐	7. Any support for exempt non-structural components given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) meeting the following: A) when supported on a floor/roof, <400# and resulting composite center of mass (including component's center of mass) ≤4' above supporting floor/roof, B) when hung from a wall or roof/floor, <20# for discrete units or <5 pif for distributed systems.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS(SIGNATURE), 2022 CBC

Application Number: 04-122454	School Name: 24 thru 120x40	School District: SKC Compnay
DSA File Number: PC-116	Increment Number:	Date Created: 2023-10-10 16:39:15

Name of Architect or Engineer in general responsible charge:

Name of Structural Engineer (When structural design has been delegated):

Signature of Architect or Structural Engineer: Date:

Note: To facilitate DSA electronic mark-ups and identification stamp application, DSA recommends against using secured electronic or digital signatures.

DSA STAMP

DSA 103-22: LIST OF REQUIRED VERIFIED REPORTS, CBC 2022

Application Number: 04-122454	School Name: 24 thru 120x40	School District: SKC Compnay
DSA File Number: PC-116	Increment Number:	Date Created: 2023-10-10 16:39:15

1. Structural Testing and Inspection: Laboratory Verified Report Form DSA 291
2. Shop Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292

THE SAMPLE DSA 103 FORMS SHOWN ON THIS SHEET ARE FOR ILLUSTRATION PURPOSES ONLY. A SEPARATE DSA 103 FORM IS TO BE COMPLETED FOR EACH PROJECT SPECIFIC APPLICATION THAT THIS PC IS BEING INCORPORATED INTO. THE DSA 103 FORM IS TO BE COMPLETED BY THE ARCHITECT OF RECORD FOR THE OVERALL SCOPE OF WORK ON THE PROJECT SPECIFIC APPLICATION. MODULAR BUILDING MANUFACTURER (OR DESIGN BUILD CONTRACTOR) IS ONLY RESPONSIBLE FOR COMPLETING DSA103 FORM ON STOCKPILE PROJECTS. THE SAMPLE DSA 103 FORM SHALL BE CROSSED OUT ON THIS DRAWING.

NOTES:

IF DETAIL #10/F1.8 IS APPLICABLE: INCLUDE SECTION S/A9 ON DSA 103-22 FORM SHOWN ABOVE

STATE AGENCY APPROVAL

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DISTRICT/CUSTOMER NAME:
ANTELOP UNION
HIGH SCHOOL DISTRICT

SCHOOL/SITE NAME:
SOARS
HIGH SCHOOL

SHEET TITLE:

SAMPLE DSA 103 WOOD FOUNDATION OR BUILDING STOCKPILE PROJECTS

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122454 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 11/14/2023

PROFESSIONAL OF RECORD ON PC

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RYAN J. ORTH
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EXP: 12/31/24
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PROJECT SPECIFIC PROFESSIONAL OF RECORD

FIRM:
ADDRESS:
CITY:
PHONE:

REVISIONS

1 -
2 -
3 -
4 -
5 -

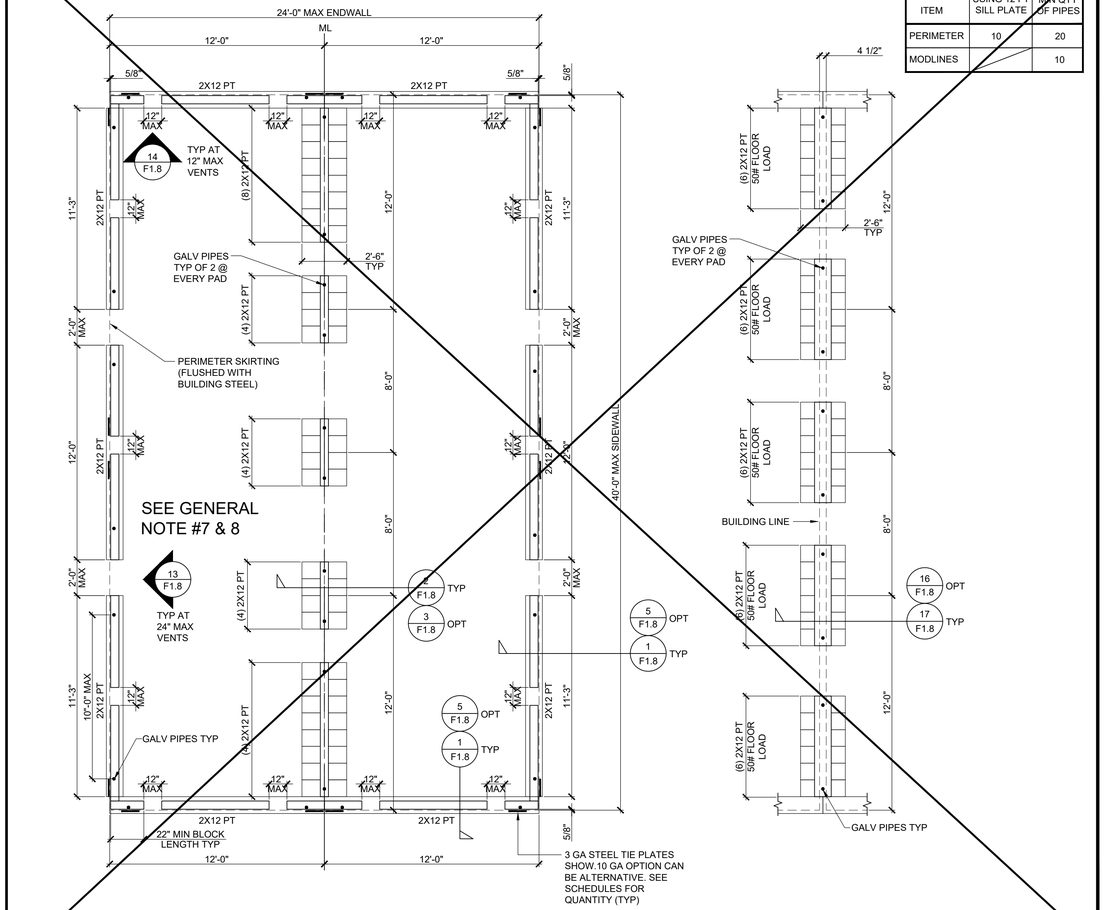
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SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

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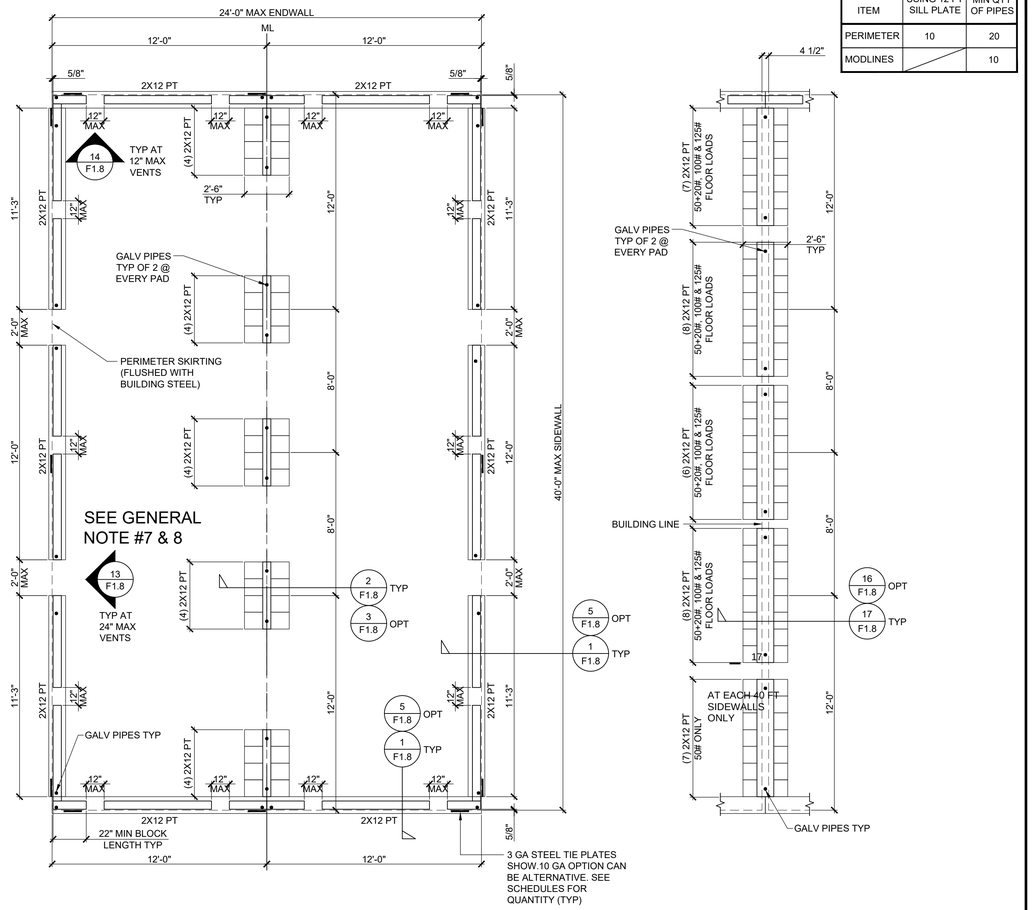
SCHEDULE		
ITEM	USING 12 FT SILL PLATE	MIN QTY OF PIPES
PERIMETER	10	20
MODLINES		10



FOUNDATION PLAN FOR 50+15, 100 & 125 FLOOR LOADS

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

SCHEDULE		
ITEM	USING 12 FT SILL PLATE	MIN QTY OF PIPES
PERIMETER	10	20
MODLINES		10



FOUNDATION PLAN FOR 50# FLOOR LOAD

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

GENERAL NOTES:

1. DESIGN ALLOWABLE SOIL BEARING PRESSURE - 1000 PSF
2. ALL FOUNDATION LUMBER SHALL BE HF #2 ALL LUMBER IN CONTACT WITH GRADE SHALL BE STAMPED "FOR GROUND CONTACT" ALL FOUNDATION FASTENERS SHALL BE CORRISION RESISTANT PER 2304.9.5
3. CONTINUOUS TOP PLATE NOT SHOWN FOR CLARITY
4. MAXIMUM 2,160 SQ FT FOR STAND-ALONE WOOD PAD FOUNDATION SYSTEM PER DSA IR 16-1.13
5. MINIMUM (3) SIDES FOR CROSS VENTILATION
6. THE ENDWALL SIDE MUST BE VENTED
7. OPTION - PER SECTION 1202.4.1.2 THE TOTAL AREA OF VENTILATION OPENINGS IS PERMITTED TO BE REDUCED TO 1/1500 OF THE UNDER-FLOOR AREA WHERE THE GROUND SURFACE IS COVERED WITH A CLASS I VAPOR RETARDER MATERIAL AND THE REQUIRED OPENINGS ARE PLACED SO AS TO PROVIDE CROSS VENTILATION OF THE SPACE. THE INSTALLATION OF OPERABLE LOUVERS SHALL NOT BE PROHIBITED
8. THE 24" WIDE MAX VENT OPENING AT THE SIDEWALL IS A FIX LOCATION. REFER TO DETAIL #X/XX FOR BLOCK-OUT REQUIREMENTS. THE 12" WIDE MAX VENT OPENING CAN BE LOCATED ANYWHERE ON THE FOUNDATION ABIDING BY DETAIL #X/XX BLOCK-OUT REQUIREMENTS. WHEN RAMPS, LANDINGS OR STAIRS ARE USED, THE VENT AREAS THAT ARE ACCOUNTED FOR TO MEET THE MIN VENTILATION REQUIREMENTS MUST EITHER BE RELOCATED OR THE RAMP, LANDING OR STAIRS MUST ALSO BE VENTED TO ALLOW VENTILATION

ENDWALL PLATE & BLOCK SCHEDULE				
FLOOR LIVE LOAD PSF	50	50+15	100	125
SILL PLATE	2x12 CONT	2x12 CONT	2x12 CONT	2x12 CONT
BLOCK PLATE	2x6	2x6	2x6	2x8
BLOCK PLATE	2x6	2x6	2x6	2x6
CONT. TOP PLATE	2x4	2x4	2x6	2x6

SIDEWALL PLATE & BLOCK SCHEDULE				
FLOOR LIVE LOAD PSF	50	50+15	100	125
SILL PLATE	2x12 CONT	2x12 CONT	2x12 CONT	2x12 CONT
BLOCK PLATE	2x6	2x6	2x6	2x8
BLOCK PLATE	2x6	2x6	2x6	2x6
CONT. TOP PLATE	2x4	2x4	2x6	2x6

WOOD PAD FOUNDATION (MODLINE)				
FLOOR LIVE LOAD PSF	50	50+15	100	125
SILL PLATE	2x12 S/S	2x12 S/S	2x12 S/S	2x12 S/S
BLOCK PLATE	2x8 CONT	2x8 CONT	2x10 CONT	2x10 CONT
BLOCK PLATE	2x6 CONT	2x6 CONT	2x8 CONT	2x8 CONT
CONT. TOP PLATE	2x6 CONT	2x6 CONT	2x8 CONT	2x8 CONT

WOOD PAD FOUNDATION (SEPARATION)				
FLOOR LIVE LOAD PSF	50	50+15	100	125
SILL PLATE	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN
BLOCK PLATE	2x10 CONT	2x10 CONT	2x10 CONT	2x12 CONT
BLOCK PLATE	2x10 CONT	2x10 CONT	2x12 CONT	2x12 CONT
CONT. TOP PLATE	2x10 CONT	2x10 CONT	2x12 CONT	2x12 CONT

10 GA. TIE PLATE SCHEDULE				
BUILDING SIZE	FLOOR LOAD PSF	PER EA SIDE ENDWALL	PER EA SIDE SIDEWALL	GRAND TOTAL
24'x40'	50	5	5	20
	50+15	7	7	28
	100	5	5	20
	125	6	6	44

3 GA. TIE PLATE SCHEDULE				
BUILDING SIZE	FLOOR LOAD PSF	PER EA SIDE ENDWALL	PER EA SIDE SIDEWALL	GRAND TOTAL
24'x40'	50	3	3	12
	50+15	4	4	16
	100	3	3	12
	125	5	5	20

NOTE:
ALL LUMBER SHALL BE DF#2 WHEN USING THE 3 GA TIE PLATE OPTION

LAG SCH AT SEPARATION/ MODLINE		
FLOOR LOAD PSF	PER EA SIDE ENDWALL	PER EA SIDE SIDEWALL
50	6	3
50+15	7	4
100	6	3
125	9	5

VENTILATION FORMULA (BASED ON 4 1/2" PAD HEIGHT)

BUILDING SQUARE FOOTAGE: 24' X 40' = 960 SF

REQUIRED VENTILATION: 1 SF / 150 SF (ALLOWED BY CODE)
960 SF / 150 SF = 6.4 SF NET VENTILATION REQUIRED

V1 24" MAX VENTS TO BE : 4
24" X 3" = 72 / 144 = 0.5 SF
TOTAL VENTILATION: (4) VENTS X 0.5 = 2.0 SF X 50% SCREEN POROSITY = 1.0 SF

V2 12" MAX VENTS TO BE USE: 92
12" X 1.5" = 18 / 144 = 0.125 SF
TOTAL VENTILATION: (92) VENTS X 0.125 = 11.5 SF X 50% SCREEN POROSITY = 5.75 SF

OVERALL VENTILATION:
1.0 + 8.75 = 9.75 SF

6.75 SF > 6.4 SF VENTILATION REQUIREMENT = OK

NOTE:
ADDITIONAL 12" MAX VENTS WILL BE REQUIRED WHEN FOUNDATION PAD HEIGHT IS LESS THAN 6" INCLUDING SITE CONDITIONS WHERE THE 24" MAX FIXED VENT IS BLOCKED OR SLOPED GRADES. THE 12" MAX VENT CAN BE INSTALLED ANYWHERE ON THE PLAN ABIDING BY DETAIL #14/F1.8

VENTILATION FORMULA (BASED ON 6" PAD HEIGHT)

BUILDING SQUARE FOOTAGE: 24' X 40' = 960 SF

REQUIRED VENTILATION: 1 SF / 150 SF (ALLOWED BY CODE)
960 SF / 150 SF = 6.4 SF NET VENTILATION REQUIRED

V1 24" MAX VENTS TO BE : 4
24" X 4.5" = 72 / 144 = 0.5 SF
TOTAL VENTILATION: (4) VENTS X 0.75 = 3.0 SF X 50% SCREEN POROSITY = 1.5 SF

V2 12" MAX VENTS TO BE USE: 40
12" X 3" = 18 / 144 = 0.25 SF
TOTAL VENTILATION: (40) VENTS X 0.25 = 10.0 SF X 50% SCREEN POROSITY = 5.0 SF

OVERALL VENTILATION:
1.5 + 5.0 = 6.5 SF

6.5 SF > 6.4 SF VENTILATION REQUIREMENT = OK

NOTE:
ADDITIONAL 12" MAX VENTS WILL BE REQUIRED WHEN FOUNDATION PAD HEIGHT IS LESS THAN 6" INCLUDING SITE CONDITIONS WHERE THE 24" MAX FIXED VENT IS BLOCKED OR SLOPED GRADES. THE 12" MAX VENT CAN BE INSTALLED ANYWHERE ON THE PLAN ABIDING BY DETAIL #14/F1.8

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DISTRICT/CUSTOMER NAME:
ANTELOPE UNION
HIGH SCHOOL DISTRICT

SCHOOL/SITE NAME:
SOARS
HIGH SCHOOL

SHEET TITLE:

WOOD PAD FOUNDATION PLAN
24 X 40

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122454 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 11/14/2023

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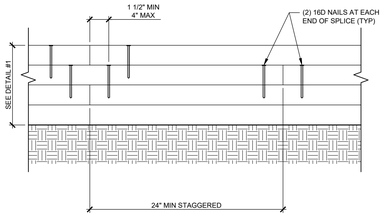
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DATE:	00-00-00

SHEET NUMBER

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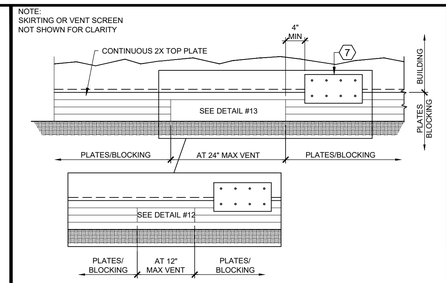
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TYPICAL SPLICE DETAIL

SCALE: 3" = 1'-0"

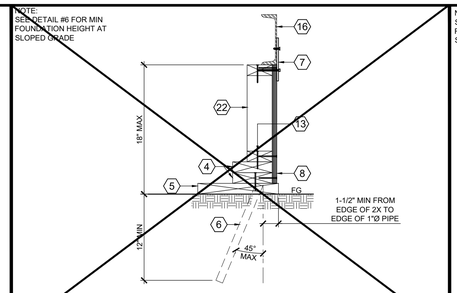
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VENTS AT LEVELED GRADE

SCALE: 1" = 1'-0"

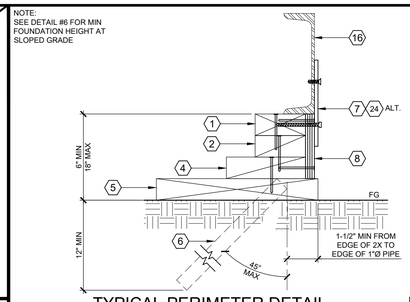
9



OPT CRIPPLE WALL PERIMETER DETAIL

SCALE: 3" = 1'-0"

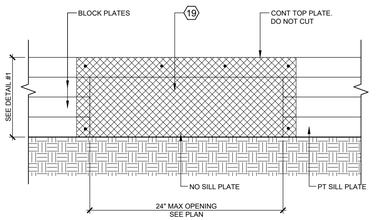
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TYPICAL PERIMETER DETAIL

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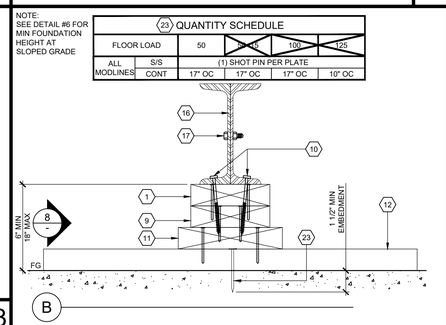
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24" MAX VENT DETAIL

SCALE: 3" = 1'-0"

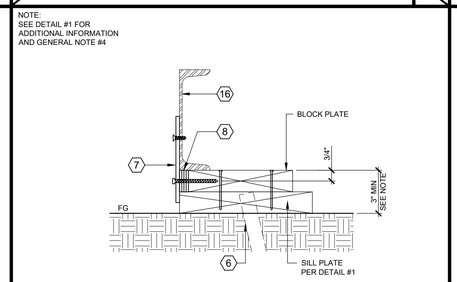
13



MINIMUM HEIGHT AT SLOPED GRADE

SCALE: 3" = 1'-0"

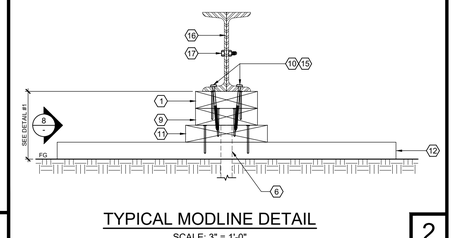
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TYPICAL MODLINE DETAIL

SCALE: 3" = 1'-0"

2

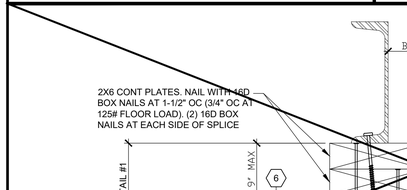


KEY NOTES

1. CONTINUOUS TOP PLATE (SEE SCHEDULE ON PLAN). INSTALL NAIL TO EACH PAD WITH 16D BOX NAILS AT 1-1/2" OC STAGGERED & (2) 16D BOX NAILS AT EACH END OF SPLICE, MIN 1 1/2" PENETRATION
2. BLOCK OR CONT PLATES (SEE SCHEDULE ON PLAN) - 16D BOX NAILS AT 1-1/2" OC (3/4" OC AT 125# FLOOR LOAD ONLY). (2) 16d BOX NAILS AT EACH END OF SPLICE, MIN 1 1/2" PENETRATION
3. 1 1/2" MAX TAPERED SHIMS NAIL TO FOUNDATION PLATES WITH 8D BOX NAILS AT 12" OC NAIL STAGGERED ALONG EACH TAPERED SHIM (PER SLOPE OF GROUND AT SITE)
4. BLOCK PLATE (SEE SCHEDULE ON PLAN). SPLICES SHALL OCCUR AT CENTER OF BLOCK PLATE LOCATIONS (SEE GENERAL NOTE #3). REFER TO KEYNOTE #2 FOR NAILING
5. CONTINUOUS PRESSURE TREATED SILL PLATE (SEE PLAN). PLATE SPLICES SHALL OCCUR AT CENTER OF BLOCK PLATE LOCATION
6. 1"Ø x 14" MIN STANDARD WEIGHT HOT DIPPED GALVANIZED PIPE AT 10'-0" OC MAX, 2'-0" MAX FROM EACH CORNER IN BOTH DIRECTIONS AND A MINIMUM OF TWO PIPES PER DISCONTINUE FOUNDATION STRIP PER DSA IR 16-1.13 SECTION 4.8. DRILL SILL PLATE 1 1/2"Ø MAX HOLE PIPE SHOULD PENETRATE INTO SOIL AND/OR PAVING A MIN OF 12" MEASURED VERTICALLY PIPES SHALL BE INSTALLED ON A CONTINUOUS PLATE. PIPE SHALL BE STAMPED WITH ASTM A53 GRADE 'A' OR 'B' AND MEET THE REQUIREMENTS OF ASTM A123
7. TYPICAL TIE PLATE AT 12X40 BUILDING: 12" X 6" X 10 GA STEEL TIE PLATE (PRIME AND PAINTED) WITH (4) 1/4"X1-1/4" LONG SDS INTO CHANNEL & (4) 3/8"X4-1/2" LAG SCREW INTO 2X MEMBER TYP LOCATE 4" MIN FROM SPLICES & END OF FOUNDATION PLATES. IF STEEL TIE PLATE IS NOT PRIMED OR PAINTED IT SHALL BE GALV. IF FASTENERS ARE NOT PAINTED, IT SHALL BE GALV
8. 5/8" PLYWOOD PERIMETER SKIRTING. NAIL TO FOUNDATION PLATES WITH 8d BOX NAILS @ 12" OC TOP AND BOTTOM
9. MODLINE - CONT PLATE (SEE SCHEDULE ON PLAN) NAIL BLOCKS TOGETHER WITH (2) 16D BOX NAILS AT EACH END OF SPLICE, MIN 1 1/2" PENETRATION
10. 5/8"Ø X 4" LAG BOLT AT MODLINE (SEE LAG SCHEDULE FOR AMOUNT). LAG SCREW SHALL BE INSTALLED VERTICALLY OR AT A MAXIMUM 45 DEGREES
11. MODLINE - CONT PLATE (SEE SCHEDULE ON PLAN). NAIL (2) 16d @ 3" OC AND (2) 16D NAILS AT EACH END
12. MODLINE - SIDE BY SIDE PRESSURE TREATED SILL PADS (SEE SCHEDULE ON PLAN)
13. CRIPPLE WALL SILL PLATE TO PLATE NAIL WITH 16D AT 6" OC MAX (3" OC AT 125# FLOOR LOAD ONLY)
14. NOT USED
15. 11/16"Ø HOLE IN FLOOR CHANNEL FOR 5/8"Ø x 4" LAG SCREW (SEE LAG SCHEDULE FOR AMOUNT)
16. FLOOR CHANNEL (SEE STRUCTURAL FLOOR FRAMING SHEET)
17. MACHINE BOLT (SEE STRUCTURAL BUILDING SECTION SHEET FOR SPACING)
18. FLOOR JOIST OR BLOCK
19. VENT SCREEN ATTACHED TO FOUNDATION W/ #8 SCREWS AT EACH CORNERS. COORDINATE WITH FOUNDATION PLAN TABLE FOR MAX SPACE BETWEEN FOUNDATION BLOCKS & BUILDING VENTILATION TABLE FOR VENTING REQUIREMENTS TO DETERMINE SIZE OF NET OPENING. VENTING SCREEN SHALL BE 2" LARGER THAN THE SIZE OF THE NET OPENING FOR THE SCREEN TO BE FASTENED ON EACH CORNER. VENTILATION SHALL BE PROVIDED AT A NET AREA OF NOT LESS THAN 1 SQUARE FOOT FOR EACH 150 SQUARE FEET OF UNDER FLOOR AREA
20. 5/8"Ø 'HILTI' KBTZ ANCHOR BOLT PER ICC REPORT #ESR-1917 (SEE SCHEDULE FOR QUANTITY), NOTCH BLOCK PLATE ABOVE AS NECESSARY
21. 2x6 HF #2 AT 16" OC MAX. (2) 16D NAILS TOE OR END NAILS TYP AT TOP & BTM STUDS
22. 2x4 HF #2 AT 16" OC MAX. (2) 16D BOX NAILS TOE OR END NAILS TYP AT TOP & BTM STUDS
23. 0.145"Ø X 3" LONG X-CP 72 P8 S36 'HILTI' SHOT PIN PER ICC REPORT #ESR-2379 (SEE SCHEDULE FOR QUANTITY, STAGGER SPACING)
24. ALTERNATE TIE PLATE AT 12X40 BUILDING: 12" X 6" X 3 GA STEEL TIE PLATE (PRIME AND PAINTED) WITH (4) 1/4"X1-1/4" LONG SDS INTO CHANNEL & (4) 7/16"X4-1/2" LAG SCREW INTO 2X MEMBER TYP LOCATE 4" MIN FROM SPLICES & END OF FOUNDATION PLATES. IF STEEL TIE PLATE IS NOT PRIMED OR PAINTED IT SHALL BE GALV. IF FASTENERS ARE NOT PAINTED, IT SHALL BE GALV

GENERAL NOTES:

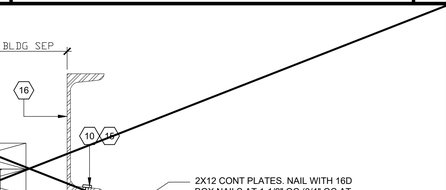
1. CONTINUOUS PLATES, OTHER THAN TOP OR BOTTOM PLATE, CAN BE CUT AS NECESSARY FOR VENTING PURPOSES
2. SEE INDIVIDUAL FOUNDATION SHEETS FOR ALL PLATE, BLOCKS AND SILL PLATE SIZES AS REQUIRED FOR FLOOR LIVE LOAD DESIGN
3. BLOCKS ABOVE SILL PLATES ARE TO BE CENTERED
4. SITE GRADE CONDITIONS VARY PER PROJECT SPECIFIC. DETAIL #6/- SHALL ONLY APPLY AT MAX TWO BUILDING CORNERS (WHEN NECESSARY) TO ALLOW VENTILATION AT OTHER SIDES OF THE FOUNDATION. IF APPLICABLE VERIFY PROPER VENTILATION REQUIREMENTS. IF MIN VENTILATION IS NOT MET, SITE GRADE CONDITION MUST BE RE-GRADED (BY DISTRICT)
5. ALL NAILS SPECIFIED ON THESE PLANS ARE BOX NAILS. COMMON NAILS IS OPTIONAL. WHEN SECURING FOUNDATION PLATE TO PLATE, THE MIN NAIL SHANK DIAMETER TO BE USED IS 0.131



12" MAX VENT DETAIL

SCALE: 3" = 1'-0"

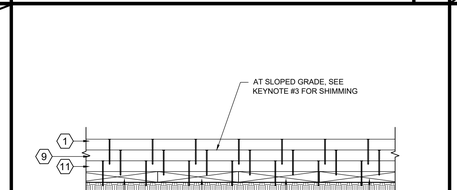
14



(OPT) FOUNDATION TO CONC SLAB

SCALE: 3" = 1'-0"

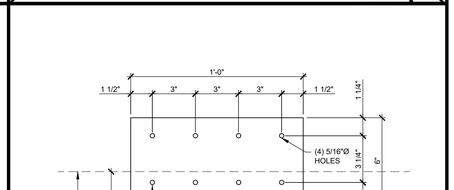
10



VENTS/SHIMS AT SLOPED GRADE

SCALE: 3" = 1'-0"

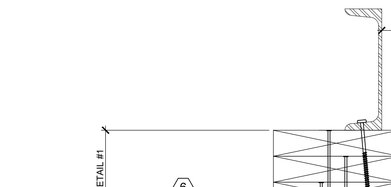
7



OPT CRIPPLE WALL MODLINE DETAIL

SCALE: 3" = 1'-0"

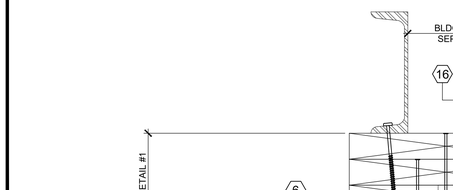
3



BUILDING SEPARATION STEPPED ELEVATION DETAIL (CONT SILL PLATES)

SCALE: 3" = 1'-0"

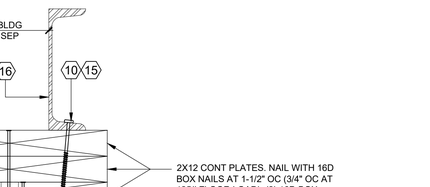
11



MODLINE DETAIL (SIDE VIEW)

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

8



TYPICAL FACE PLATE DETAIL

SCALE: 3" = 1'-0"

4

BUILDING SEPARATION DETAIL (CONT SILL PLATES)

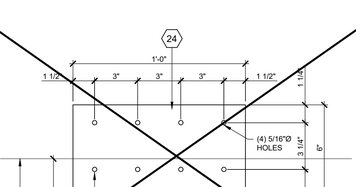
SCALE: 3" = 1'-0"

17

ALTERNATE BUILDING SEPARATION DETAIL (SIDE BY SIDE SILL PLATES)

SCALE: 3" = 1'-0"

16



ALTERNATE FOUNDATION TIE PLATES

SCALE: 3" = 1'-0"

18

STATE AGENCY APPROVAL

SKC COMPANY
15345 FAIRFIELD RANCH ROAD, SUITE #160, CHINO, CA 91709
OFFICE: (909) 740-3120, FAX: (909) 726-9470
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MANUFACTURER ##F1275666 DEALER # DL1275666
GC LIC # 992118 SBE CERTIFIED

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DISTRICT/CUSTOMER NAME:
ANTELOP UNION
HIGH SCHOOL DISTRICT

SCHOOL/SITE NAME:
SOARS
HIGH SCHOOL

SHEET TITLE:

WOOD PAD FOUNDATION DETAILS

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122454 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 11/14/2023

PROFESSIONAL OF RECORD ON PC

ORION
Structural Engineering, Inc.
11305 RANCHO BERNARDO RD
SUITE 121
SAN DIEGO, CA. 92127
PHONE: (858) 679-1974

RYAN J. OBST
C-37137
EXP: 12/31/24
STRUCTURAL
STATE OF CALIFORNIA

FIRM: Orion Structural Engineering, Inc.
ADDRESS: 11305 Rancho Bernardo Road Ste 121
CITY: San Diego, CA
PHONE: 858-679-1974

PROJECT SPECIFIC PROFESSIONAL OF RECORD

FIRM:
ADDRESS:
CITY:
PHONE:

REVISIONS

1	-
2	-
3	-
4	-
5	-

PROJECT NO.:	00-0000
DRAFTER:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

F1.8

10/31/2023 12:01:40 PM

GENERAL NOTES

GENERAL NOTES:

1. ALL CONSTRUCTION SHALL COMPLY WITH THE 2022 EDITION OF THE CALIFORNIA BUILDING CODE, CCR TITLE 24, PART 2 (CBC) AND CCR TITLE 24, PART 1, CHAPTER 4, GROUP 1, LATEST REVISIONS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE BUILDING DURING CONSTRUCTION AND SHALL PROVIDE ADEQUATE SHORING AND BRACING DURING CONSTRUCTION. CONTRACTOR SHALL COMPLY WITH APPLICABLE SAFETY REGULATIONS
3. DETAILS NOT SPECIFICALLY SHOWN SHALL BE CALLED TO THE ATTENTION OF THE MANUFACTURER OR DESIGN PROFESSIONAL AND DSA.
4. THE CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS. ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE OWNER AND BE RESOLVED BEFORE PROCEEDING WITH THE WORK.
5. NO STRUCTURAL MEMBERS SHALL BE CUT, NOTCHED OR OTHERWISE PENETRATED UNLESS SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER IN ADVANCE OR SHOWN ON THESE DRAWINGS
6. TYPICAL DETAILS SHALL APPLY UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
7. WHERE THESE GENERAL NOTES AND TYPICAL DETAILS ARE IN CONFLICT WITH THE CUSTOMER SPECIFICATIONS, THESE GENERAL NOTES AND TYPICAL DETAILS SHALL GOVERN.
8. PROVIDE OPENINGS, CURBS, FRAMING AND/OR SUPPORTS FOR ITEMS INDICATED ON ARCHITECTURAL, MECHANICAL, ELECTRICAL OR OTHER DRAWINGS INCLUDED IN CONSTRUCTION DOCUMENTS
9. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND OTHER INFORMATION NOT SPECIFICALLY SHOWN ON STRUCTURAL DRAWINGS
10. ALL ELEVATIONS ARE REFERENCED FROM TOP OF FINISHED FIRST FLOOR ELEVATION = 0'-0"
11. PROVIDE INSPECTIONS, TESTS AND REPORTS IN ACCORDANCE WITH CCR TITLE 24, PART 2 AND CCR TITLE 24, PART 1, CHAPTER 4, GROUP 1.
12. IN ADDITION TO CONTINUOUS PROJECT INSPECTION, THE FOLLOWING SPECIAL INSPECTIONS SHALL BE REQUIRED, AS A MINIMUM:
    A. INSPECTION OF ALL WELDING FOR STRUCTURAL STEEL, PER TITLE 24, PART 2, SECTION 1705A.2.
    B. INSPECTION FOR CONCRETE AND CONCRETE REINFORCEMENT PLACEMENT, PER TITLE 24, PART 2, SECTION 1705A.3
13. ALL REQUIRED INSPECTIONS AND TESTS ARE THE RESPONSIBILITY OF THE OWNER. ALL INSPECTORS SHALL PROVIDE REPORTS AS REQUIRED BY TITLE 24, PART 1, CHAPTER 4, GROUP 1
14. DIMENSIONS AND ELEVATIONS SHOWN ARE APPROXIMATE AND ARE PROVIDED AS AN AID IN INTERPRETING THE DRAWINGS ONLY. DIMENSIONS AND ELEVATIONS MUST BE VERIFIED WITH ARCHITECTURAL DRAWINGS. IN THE EVENT OF CONFLICT, DIMENSIONS AND ELEVATIONS SHOWN ON ARCHITECTURAL DRAWINGS SHALL GOVERN. DRAWING SCALES GIVEN ARE APPROXIMATE - DO NOT SCALE PLANS OR DETAILS
15. WHEN MODULE IS RELOCATED - DO NOT REINSTALL NAILS OR SCREWS IN EXISTING HOLES

WOOD:

1. STRUCTURAL FRAMING SHALL BE HEM FIR - LARCH GRADED IN ACCORDANCE WITH THE STANDARD GRADING RULES OF THE WESTERN WOOD PRODUCTS ASSOCIATION OR STANDARD GRADING RULES #17 OF THE WEST COAST LUMBER INSPECTION BUREAU, LATEST EDITIONS. GRADES SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON THE DRAWINGS. (HEM FIR SOUTH IS NOT ALLOWED.) EACH PIECE SHALL BE GRADE MARKED AND NO PIECE MAY FALL BELOW GRADES INDICATED. ALL FRAMING EXCEPT AS NOTED HEM FIR #2
2. PLYWOOD SHALL BE AS SHOWN ON THESE DRAWINGS WITH EXTERIOR GLUE IN ACCORDANCE WITH U.S. PRODUCT STANDARD PS 1-09. ALL PANELS SHALL BE MARKED WITH AN APA GRADE MARK WITH AN IDENTIFICATION INDEX AS SHOWN ON DRAWINGS. USE 4'x8' PANELS, MINIMUM, EXCEPT AT BOUNDARIES AND FRAMING CHANGES WHERE MINIMUM PANEL DIMENSION SHALL BE 24" AT ROOFS AND FLOORS AND 12" AT WALLS.
3. BOLTS FOR TIMBER CONNECTIONS SHALL CONFORM TO ANSI/ASME STANDARD AND 2018 EDITION OF THE NDS. BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF OF THE LATEST EDITION OF THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION BY THE NATIONAL FOREST PRODUCTS ASSOCIATION (NDS). BOLT HOLES SHALL BE 1/32 TO 1/16 INCH LARGER THAN BOLT DIAMETER. RE-TIGHTEN BOLTS BEFORE CLOSING IN WORK. BOLTS SHALL BE FULL BODY STEEL BOLTS WITH MINIMUM YIELD STRENGTH OF 45,000 PSI
4. LAG SCREWS SHALL BE STEEL AND CONFORM TO ANSI/ASME STANDARD AND THE REQUIREMENTS OF THE 2018 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS). HOLES FOR LAG SCREW SHANKS SHALL BE BORED THE SAME DEPTH AND DIAMETER AS THE SHANK. THE REMAINING DEPTH OF PENETRATION OF THE SCREW SHALL BE BORED TO 70% OF THE SHANK DIAMETER. ONE QUARTER INCH (1/4") DIAMETER LAG SCREWS NEED NOT HAVE PRE-DRILLED HOLES IF IT CAN BE SHOWN THAT THE WOOD MEMBERS ARE NOT DAMAGED DURING INSTALLATION. PROVIDE FULL DIAMETER BODY LAG SCREWS WITH BENDING YIELD STRENGTHS PER THE 2018 NDS.
5. PROVIDE MALLEABLE IRON WASHERS OR EQUIVALENT CUT PLATE WASHERS (NOT LESS THAN A STANDARD CUT WASHER) UNDER NUTS AND BOLT OR LAG SCREW HEADS WHICH BEAR ON WOOD.
6. WOOD SCREWS SHALL CONFORM TO ANSI/ASME STANDARD AND THE REQUIREMENTS OF THE 2018 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION BY THE NATIONAL FOREST PRODUCTS ASSOCIATION (NDS). GALVANIZED OR OTHER CORROSION RESISTANT COATING WHERE EXPOSED TO WEATHER OR USED IN FOUNDATIONS. SCREWS SHALL BE STEEL WITH CUT THREADS AND BENDING YIELD STRENGTHS NDS.
7. WOOD MEMBERS SHALL BE CUT OR NOTCHED ONLY AS SHOWN ON STRUCTURAL DRAWINGS.
8. WHEN REQUIRED NAILING TENDS TO SPLIT WOOD MEMBERS, NAIL HOLES SHALL BE PRE-BORED TO 3/4 OF THE NAIL DIAMETER.
9. STRUCTURAL NAILING SHALL BE WITH FULL HEAD COMMON NAILS PER ALL REQUIREMENTS OF THE 2018 NDS. NAILING NOT SPECIFICALLY INDICATED SHALL COMPLY WITH CCR TITLE 24, PART 2, TABLE 2304.10.2. ALL NAILS SHALL BE GALVANIZED OR OTHER CORROSION RESISTANT COATING WHERE EXPOSED TO WEATHER, IN FOUNDATIONS AND AS NOTED ON PLANS, PER THE REQUIREMENTS OF CCR TITLE 24, PART 2, WITH MINIMUM BENDING YIELDS PER THE 2018 NDS. (SEE NAIL EQUIVALENCE BELOW.)
10. NAIL EQUIVALENCE: (PROVIDE MINIMUM NAIL LENGTHS AS REQUIRED FOR SPECIFIED PENETRATION, TYP UNO) 6d EQUALS .113"Ø - PROVIDE 1.36" MIN POINT PENETRATION 8d EQUALS .131"Ø - PROVIDE *1.57" MIN POINT PENETRATION 10d EQUALS .148"Ø - PROVIDE *1.78" MIN POINT PENETRATION 16d EQUALS .162"Ø - PROVIDE *1.94" MIN POINT PENETRATION * 1 1/2" AT 2x MEMBERS
11. EXCEPT WHERE MORE STRINGENT CONSTRUCTION IS SHOWN ON THE DRAWINGS, WOOD CONSTRUCTION SHALL COMPLY WITH TITLE 24, PART 2, SECTION 2308, CONVENTIONAL LIGHT-FRAME CONSTRUCTION PROVISIONS, AS A MINIMUM
12. PRESSURE PRESERVATIVE TREATMENT SHALL BE PER SECTION 2303.1.9, CCR TITLE 24, PART 2. PROVIDE QUALITY MARK ON ALL TREATED FOUNDATION MEMBERS FROM AGENCY LISTED BY AN ACCREDITATION BODY THAT COMPLIES WITH THE REQUIREMENTS OF THE AMERICAN LUMBER STANDARDS TREATED WOOD PROGRAM. ALL FOUNDATION MEMBERS SHALL BE IDENTIFIED PER SECTION 2303.1.9.1. TREAT ALL CUT ENDS OF PRESSURE TREATED MEMBERS WITH AN APPROVED PRESERVATIVE. (WILLARD W/B COPPER GREEN 2% OR AN APPROVED EQUIVALENT). WHERE NOTED, MEMBERS BELOW THE SUB FLOOR THAT ARE NOT A PART OF THE FOUNDATION SHALL BE PRESSURE TREATED. A QUALITY CONTROL STAMP IS NOT REQUIRED FOR STRUCTURAL MEMBERS BELOW THE SUB FLOOR THAT ARE NOT PART OF THE FOUNDATION
13. MACHINE NAILING IS SUBJECT TO APPROVAL BY THE STRUCTURAL ENGINEER OR ARCHITECT AND THE DIVISION OF THE STATE ARCHITECT.
14. POWDER DRIVEN FASTENERS SHALL BE BY HILTI, INC. HILTI FASTENING SYSTEMS - OR EQUAL. INSTALL IN ACCORDANCE WITH DRAWINGS AND THE MANUFACTURER'S RECOMMENDATIONS AND ICC APPROVALS
15. FASTENERS FOR PRESSURE-PRESERVATIVE TREATED AND FIRE-RETARDANT TREATED WOOD SHALL COMPLY WITH SECTION 2304.10.6 OF CBC
16. NAILS AND SPIKES USED IN WET OR EXTERIOR LOCATIONS SHALL COMPLY WITH SECTION 2304.10.2.1 OF CBC

CONCRETE:

1. CONCRETE SHALL DEVELOP A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 3500 PSI AT 28 DAYS IN ACCORDANCE WITH ASTM C31 AND C39. TESTING SHALL BE IN ACCORDANCE WITH 2022 CBC (CCR TITLE 24, PART 2) SECTION 1905A.1.2 AND ACI 318-19 SECTION 5.6. SAMPLES FOR STRENGTH TESTS OF EACH CLASS OF CONCRETE PLACED EACH DAY SHALL BE TAKEN NOT LESS THAN ONCE A DAY, OR NOT LESS THAN ONCE FOR EACH 50 CUBIC YARDS (38.3 m³) OF CONCRETE, OR NOT LESS THAN 2000 SQUARE FEET (186 m²) OF SURFACE AREA FOR SLABS OR WALLS. ADDITIONAL SAMPLES FOR SEVEN-DAY COMPRESSIVE STRENGTH TESTS SHALL BE TAKEN FOR EACH CLASS OF CONCRETE AT THE BEGINNING OF THE CONCRETE WORK OR WHENEVER THE MIX OR AGGREGATE IS CHANGED.
2. CONCRETE THAT WILL BE EXPOSED TO FREEZING AND THAWING, DEICING CHEMICALS OR OTHER EXPOSURE CONDITIONS SHALL COMPLY WITH SECTION 1904A.1, ACI 318-19 SECTION 4.4 &4.5
3. ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF THE 2022 CBC (CCR TITLE 24, PART 2) AND ACI STANDARD 318-19, 2022 EDITION, OF THE AMERICAN CONCRETE INSTITUTE, UNLESS SHOWN OR NOTED OTHERWISE ON THESE DRAWINGS.
4. AGGREGATE SHALL CONFORM TO ASTM C33 FOR NORMAL CONCRETE WEIGHT AND C330 FOR LIGHT WEIGHT CONCRETE AND 2022 CBC SECTION 1903A.
5. CEMENT SHALL BE ASTM C150, TYPE I OR TYPE II (UNO BY GEO-TECHNICAL REPORT)
6. REINFORCING STEEL SHALL BE DEFORMED CONFORMING TO ASTM A615 GRADE 40 UNLESS OTHERWISE NOTED.
7. WELDED WIRE FABRIC REINFORCEMENT SHALL CONFORM TO ASTM A185.
8. WELDING OF REINFORCING STEEL SHALL BE PERFORMED ONLY WHERE INDICATED ON THE DRAWINGS AND SHALL BE IN COMPLIANCE WITH ALL REQUIREMENTS OF THE 2022 CBC AND THE REINFORCING STEEL WELDING CODE, AWS D1.4, LATEST REVISION, OF THE AMERICAN WELDING SOCIETY. PROVIDE WELDING PROCEDURE AND MILL TEST REPORTS FOR ALL REINFORCEMENT TO BE WELDED. REINFORCING WITH C.E. ABOVE .75 SHALL NOT BE WELDED. ARCHITECT SHALL APPROVE WELDING PROCEDURE, WELDER QUALIFICATIONS AND MILL TEST REPORTS PRIOR TO EXECUTION OF WELDING. PROVIDE INSPECTION PER SECTION 1705A.3 AND TABLE 1705A.2.1, TITLE 24, PART 2. REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A706.
9. COVERAGE FOR REINFORCING BARS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2022 CBC AND ACI STANDARD 318-19 UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
10. LAP SPLICES FOR REINFORCING BARS SHALL BE 72 BAR DIAMETERS UNLESS SHOWN OTHERWISE ON THE DRAWINGS. WIRE BARS TOGETHER AT LAPS OR SPLICES. STAGGER LAPS IN ADJACENT HORIZONTAL OR SLOPING REINFORCING BARS A MINIMUM OF THE REQUIRED SPLICE LENGTH. HOOKS AND BENDS SHALL BE ACI 318-19 SECTION 25.3, 25.4 & 25.5 UNLESS SHOWN OTHERWISE. WELDED WIRE FABRIC SHALL BE SPLICED BY LAPPING A MINIMUM OF 12 INCHES OR TWO CROSS WIRES, WHICHEVER IS GREATER.
11. CONCRETE SHALL BE PLACED IN ACCORDANCE WITH ASTM C94 AND ACI STANDARD 304. ALSO COMPLY WITH REQUIREMENTS OF ACI 318-19 CHAPTER 19
12. ALL EMBEDDED ITEMS SHALL BE PLACED ACCURATELY AND SECURED PRIOR TO BEGINNING CONCRETE PLACEMENT.
13. CONSTRUCTION JOINTS SHALL BE LOCATED SO AS NOT TO IMPAIR THE STRENGTH OF THE STRUCTURE. CONSTRUCTION JOINTS SHALL COMPLY WITH ACI 318-19 CHAPTER 9. LOCATE CONSTRUCTION JOINTS AS SHOWN ON THE DRAWINGS OR APPROVED IN ADVANCE BY THE STRUCTURAL ENGINEER AND DSA.
14. PROVIDE SHOP DRAWINGS FOR ALL REINFORCING STEEL TO ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO BEGINNING ANY FABRICATION.
15. CONTRACTOR SHALL PREPARE AND SUBMIT CONCRETE MIX DESIGNS TO THE ARCHITECT FOR APPROVAL PRIOR TO PLACEMENT OF ANY CONCRETE. CONCRETE MIX DESIGNS SHALL BE PER 2022 CBC SECTION 1905A.1 AND ACI 318-19 SECTION 19.2, A REGISTERED CIVIL ENGINEER WITH EXPERIENCE IN CONCRETE MIX DESIGN SHALL SELECT THE RELATIVE AMOUNTS OF INGREDIENTS TO BE USED AS BASIC PROPORTIONS OF THE CONCRETE MIXES PROPOSED FOR USE UNDER THIS PROVISION AND TESTING SHALL BE PERFORMED IN A LABORATORY ACCEPTABLE TO THE ENFORCEMENT AGENCY. ALL GROUT SHALL BE NONMETALLIC NON-SHRINK HIGH STRENGTH GROUT BY MASTER BUILDERS OR EQUIVALENT AS APPROVED BY THE ARCHITECT. UTILIZE PRODUCTS RECOMMENDED BY THE MANUFACTURER FOR EACH APPLICATION AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
16. REINFORCING AND EMBEDMENT ITEMS SHALL BE FREE OF EXCESSIVE SCALE OR RUST, DIRT, GREASE, OIL OR ANY OTHER SUBSTANCE THAT WILL IMPAIR BOND WITH CONCRETE.
17. OWNER SHALL PROVIDE INSPECTIONS IN ACCORDANCE WITH CCR TITLE 24 FOR THE PLACEMENT OF CONCRETE AND CONCRETE REINFORCEMENT, FOR BOLTS INSTALLED IN CONCRETE AND FOR SAMPLING CONCRETE. OWNER'S INSPECTOR SHALL PROVIDE INSPECTION REPORTS TO THE ARCHITECT AND THE DIVISION OF THE STATE ARCHITECT.
18. ADDITIONALLY, PROVIDE TESTS AND INSPECTIONS IN ACCORDANCE WITH TITLE 24, PART 2, SECTION 1913A. A PLACING RECORD SHALL BE MAINTAINED FOR ALL CONCRETE PLACED IN THE STRUCTURE.
19. BATCH PLANT INSPECTION, CEMENT AND REINFORCING TESTS ARE NOT REQUIRED. FOR SINGLE-STORY LIGHT FRAMED BUILDINGS AND ISOLATED FOUNDATIONS SUPPORTING EQUIPMENT ONLY, WHERE THE SPECIFIED COMPRESSIVE STRENGTH Fc OF THE CONCRETE DELIVERED TO THE JOBSITE IS 3,500 PSI (24.1 MPa) AND WHERE THE Fc USED IN THE DESIGN IS NOT GREATER THAN 3,000 PSI (20.68 MPa). THE QUANTITIES OF CONCRETE MATERIALS SHALL BE CERTIFIED BY A LICENSED WEIGHMASTER AND THE QUALITY OF MATERIALS SHALL BE VERIFIED BY THE OWNER'S TESTING AGENCY:
    A. QUALIFIED TECHNICIAN OF THE TESTING LABORATORY SHALL CHECK THE FIRST BATCH AT THE START OF THE DAY.
    B. LICENSED WEIGHMASTER TO POSITIVELY IDENTIFY MATERIALS AS TO QUANTITY AND CERTIFY TO EACH LOAD BY A BATCH TICKET.
    C. BATCH TICKETS, INCLUDING ACTUAL MATERIAL QUANTITIES AND WEIGHTS SHALL ACCOMPANY THE LOAD AND SHALL BE TRANSMITTED TO THE INSPECTOR OF RECORD BY A TRUCK DRIVER WITH LOAD IDENTIFIED THEREON. THE LOAD SHALL NOT BE PLACED WITHOUT A BATCH TICKET IDENTIFYING THE MIX. THE INSPECTOR WILL KEEP A DAILY RECORD OF PLACEMENTS, IDENTIFYING EACH TRUCK, ITS LOAD, TIME OF RECEIPT AND APPROXIMATE LOCATION OF DEPOSIT IN THE STRUCTURE AND WILL TRANSMIT A COPY OF THE DAILY RECORD TO THE ENFORCEMENT AGENCY.
    D. COMPLY WITH ALL REQUIREMENTS OF TITLE 24, PART 2, SECTIONS 1705A.3.3.
20. ALL CONCRETE WORK SHALL BE FORMED. CASTING OF FOUNDATION CONCRETE AGAINST SIDES OF FOOTING EXCAVATIONS SHALL NOT BE ALLOWED EXCEPT AS SPECIFICALLY APPROVED BY ARCHITECT, STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT.
21. MAX CONC SLUMP TO BE 4"±1"

CONCRETE FOUNDATION:

1. FOUNDATION BEARING SHALL BE AS APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND THE OWNER'S ARCHITECT. IT IS THE SCHOOL DISTRICT'S RESPONSIBILITY TO PROVIDE ADEQUATE BEARING TO DEVELOP THE ALLOWABLE BEARING PRESSURE NOTED BELOW.
2. CONCRETE FOUNDATIONS ARE DESIGNED FOR A MAXIMUM DEAD PLUS LIVE LOAD ALLOWABLE SOIL BEARING PRESSURE OF 1500 PSF PER CCR TITLE 24, TABLE 1806A.2.
3. THE BOTTOM OF ALL FOOTINGS SHALL BE LEVEL. CHANGES IN FOOTING ELEVATIONS SHALL BE MADE UTILIZING THE TYPICAL FOOTING STEP DETAILS ON THESE DRAWINGS.
4. CENTER FOOTINGS UNDER WALLS OR COLUMNS UNLESS OTHERWISE INDICATED ON THESE DRAWINGS.
5. PROVIDE PROPER GRADING OF SITE SUCH THAT WATER DOES NOT POND OR OTHERWISE COLLECT UNDER THE BUILDING.
6. FOUNDATIONS ARE DESIGNED AS PERMANENT FOUNDATIONS IN ACCORDANCE WITH TITLE 24, CHAPTER 18A.
    A. ALL BUILDINGS, PERMANENT OR OTHER RELOCATABLE, ADJACENT TO THESE RELOCATABLE BUILDINGS MUST BE SEPARATED FROM THESE RELOCATABLE BUILDINGS. SEE COVER SHEET FOR MINIMUM SEPARATION REQUIRED

STRUCTURAL STEEL:

1. NOT USED
2. NOT USED
3. NOT USED
4. ALL WELDING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CALIFORNIA BUILDING CODE (CBC) AND THE STRUCTURAL WELDING CODE - STEEL, AWS D1.1, 2018 EDITION OF THE AMERICAN WELDING SOCIETY. WELDING DONE BY SHIELDING ELECTRIC-ARC OR FLUX-CORED PROCESS COMPLYING WITH AWS.
5. FABRICATION AND ERECTION OF STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE 15TH EDITION OF THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) (CBC CHAPTER 22A). ALSO COMPLY WITH REQUIREMENTS OF THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES. TEMPORARY BRACING IS REQUIRED AS NEEDED UNTIL ALL ELEMENTS SHOWN ON STRUCTURAL DRAWINGS ARE IN PLACE.
6. PRIME ALL STEEL SURFACES WITH AN APPROVED PRIMER, EXCEPT SURFACES TO BE EMBEDDED IN CONCRETE AND SURFACES TO RECEIVE FIELD WELDS. TOUCH-UP FIELD WELDS AND OTHER EXPOSED STEEL SURFACES AFTER ERECTION. ALTERNATE: PROVIDE GALVANIZED PER ASTM A-123.
7. PROVIDE TESTS AND INSPECTIONS IN ACCORDANCE WITH CCR TITLE 24, PART 2, SECTION 1705A.2. ALL STEEL SHALL BE PROPERLY IDENTIFIED PER SECTION 2203A.
8. WELDING SHOULD BE IN ACCORDANCE WITH CCR TITLE 24. PART 2, SECTION 1705A.2
9. ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE-RESISTING SYSTEM SHALL BE MADE WITH A FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 ft-lbs AT 0 DEGREES F, AS REQ. BY SEC. 2212A.2.3
10. QUALIFIED AND CERTIFIED WELDERS SHALL BE USED FOR ALL WELDING. ALL WELDING TO CONFORM TO THE 2018 EDITION OF THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE AWS D1.1
11. MATERIALS:

ROLLED STRUCTURAL STEEL SHAPES	ASTM A992
ANGLES, MISC STEEL	ASTM A36
MISCELLANEOUS PLATES	ASTM A-572 GRADE 50
STRUCTURAL STEEL PIPES	ASTM A53 TYPE E OR S, GRADE B
WELDING ELECTRODES	AWS STRUCTURAL STEEL E70XX, REINFORCING STEEL E90XX
ANCHOR BOLTS	ASTM F-1554 GRADE 36
TYPICAL STEEL CONNECTION BOLTS	ASTM F-3125 GRADE A325
MISCELLANEOUS BOLTS	ASTM A-307
GALVANZING	ASTM A-123
RUSH-INHIBITING PRIMER	TT-P-645 ASTM
HSS STEEL COLUMNS	ASTM A-500 GRADE B (Fy = 46 KSI)

12. CONNECTED MEMBERS SHALL BEAR ONLY UPON UNTHREADED PORTIONS OF BOLTS
13. BURNING OF HOLES IS NOT ALLOWED
14. INSPECTION OF WELDING SHALL CONFORM TO CBC REQUIREMENTS (CHAPTER 17A)
15. THE STRUCTURAL STEEL FABRICATOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION
16. BOLT HOLES SHALL BE 1/16" LARGER IN DIAMETER THAN NOMINAL SIZE OF BOLTS USED, UNO

PAD FOUNDATIONS: (RESTRAINED)

1. FOUNDATION BEARING SHALL BE AS APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AND THE OWNER'S ARCHITECT. IT IS THE SCHOOL DISTRICT'S RESPONSIBILITY TO PROVIDE ADEQUATE BEARING TO DEVELOP THE ALLOWABLE BEARING PRESSURE NOTED BELOW
2. FOUNDATIONS ARE DESIGNED FOR A MAXIMUM DEAD PLUS LIVE LOAD ALLOWABLE SOIL BEARING PRESSURE OF 1000 PSF, AS PER IR 16-1
3. THE BOTTOM OF ALL FOOTINGS SHALL BE LEVEL. CHANGES IN FOOTING ELEVATIONS SHALL BE MADE UTILIZING THE FOOTING SHIM DETAILS ON THESE DRAWINGS
4. CENTER FOOTINGS UNDER WALLS OR COLUMNS UNLESS OTHERWISE INDICATED ON THESE DRAWINGS
5. PROVIDE PROPER GRADING OF SITE SUCH THAT WATER DOES NOT POND OR OTHERWISE COLLECT UNDER THE BUILDING.
6. VERIFY THAT NO PIPES, UTILITIES, OR OTHER SUCH ITEMS OCCUR BELOW FOOTINGS.
7. FOUNDATIONS ARE DESIGNED AS "RESTRAINED FOUNDATION", IN ACCORDANCE WITH IR 16-1.16, SUBSTANDARD FOUNDATIONS
    a. ANCHOR FOOTINGS AT BUILDING PERIMETER WITH 1"Ø HOT DIPPED GALVANIZED STANDARD WEIGHT STEEL PIPES DRIVEN FLUSH WITH TOP OF WOOD FOUNDATION PADS AND PENETRATING SOIL 12" MINIMUM AT A MAXIMUM SPACING OF 10'-0" OC AT SIDEWALLS AND 2'-0" FROM EACH CORNER IN BOTH DIRECTIONS
    b. STAIRS AND RAMPS SHALL BE PROPERLY ANCHORED TO BUILDING TO PREVENT SEPARATION
    c. ALL BUILDINGS, PERMANENT OR OTHER RELOCATABLE, ADJACENT TO THESE RELOCATABLE BUILDINGS MUST BE SEPARATED FROM THESE RELOCATABLE BUILDINGS BY 4 1/2" MINIMUM
8. FINISH GRADES SHALL BE WITHIN MAX 18" BELOW BOTTOM OF FLOOR JOISTS WITHOUT EXCEPTION
9. THE TIE PLATE WHICH ATTACHES THE FLOOR BEAM TO THE WOOD FOUNDATION AND THAT IS EXPOSED TO THE WEATHER IS TO BE GALVANIZED. TEK SCREWS THAT ATTACH THE TIE PLATE TO THE FLOOR BEAM ARE TO BE HOT-DIPPED GALVANIZED. ANCHOR BOLTS AND MECHANICAL EXPANSION ANCHORS WHICH ARE EXPOSED TO THE WEATHER ARE TO BE PAINTED WITH ZINC-BASED PAINT
10. UNDER-FLOOR CLEARANCE - UNDER FLOOR CLEARANCE AND THE TREATMENT OF WOOD MEMBERS (INCLUDING THE FLOOR SHEATHING) IN CLOSE PROXIMITY TO EXPOSED GROUND SHALL MEET THE REQUIREMENTS OF CBC SECTION 2304.12.1.1. IF A RAT SLAB IS PROVIDED WITHIN THE PERIMETER OF THE FOUNDATION OR THE BUILDING IS PLACED ON PAVEMENT, THE MINIMUM CLEARANCE REQUIREMENTS OF CBC SECTION 2304.12.1.1 FOR PROVIDING NATURALLY DURABLE OR PERSERVATIVE-TREATMENT WOOD NOT BE MET

ACCEPTABLE FASTENERS / ICC REPORTS:

SHOT PIN THROUGH LIGHTWEIGHT CONCRETE: ICC REPORT #ESR-2269. ALTERNATE SHOT PIN #ESR-1752
SHOT PIN THROUGH LIGHT GAUGE STEEL: ICC REPORT #ESR-2961
WOOD/METAL JAMB STUDS TO STEEL COLUMN: ICC REPORT #ESR-2269

SELF-TAPPING SCREWS	SECT 3.2.12 ASTM C1513
SELF-DRILLING SCREWS	SECT 3.2.9 ASTM C1513
SELF-PIERCING SCREWS	SECT 3.2.9 ASTM C1513

REFERENCE ASTM C1513, STANDARD SPECIFICATION FOR TAPPING SCREWS FOR COLD-FORMED STEEL FRAMING CONNECTION

REFERENCE AISI S400-20/ S1-09 , NORTH AMERICAN STANDARD FOR SEISMIC DESIGN

FASTENERS MANUFACTURED WITH CARBON STEEL WIRE SHALL CONFORM TO ASTM A510

TESTING - THE OPERATOR, TOOL, AND FASTENER SHALL BE PRE-QUALIFIED BY THE PROJECT INSPECTOR. HE SHALL OBSERVE THE TESTING OF THE FIRST 10 FASTENER INSTALLATIONS. A TEST "PULL-OUT" LOAD OF NOT LESS THAN TWICE THE DESIGN LOAD SHALL BE APPLIED TO THE PIN IN SUCH A MANNER AS NOT TO RESIST THE SPALLING TENDENCY OF THE CONCRETE SURROUNDING THE PIN. THEREAFTER, RANDOM TEST UNDER THE PROJECT INSPECTOR'S SUPERVISION SHALL BE MADE OF APPROXIMATELY 1 IN 10 PINS. IF ANY PIN FAILS TESTING, TEST ALL PINS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE PASS, THEN RESUME THE INITIAL TESTING FREQUENCY.

MACHINE APPLIED NAILING:

USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOBSITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL BY THE PROJECT ARCHITECT OR STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. MACHINE NAILING WILL NOT BE APPROVED IN 5/16" PLYWWOD. IF NAILHEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY AND MACHINE NAILING SHALL BE DISCONTINUED.

COLD FORMED STRUCTURAL STEEL:

1. ALL LIGHT GAUGE METAL FRAMING SHALL BE THE TYPE, SIZE AND GAUGE AS SHOWN ON THE PLANS AND BE FABRICATED AND ERECTED IN ACCORDANCE WITH LATEST ADOPTED AISI SPECIFICATIONS
2. ALL GALVANIZED STUDS, TRACKS, AND OR JOISTS 12, 14, AND 16 GAUGE SHALL CONFORM TO ASTM A653, SS GRADE 50 (Fy = 50 KSI) AND ASTM A653, SS GRADE 33 (Fy = 33 KSI) FOR 18 AND 20 GAUGE UNO
3. CORROSION PROTECT PER TABLE A4-1 BELOW
4. GALVANIZED COATINGS MUST MEET ASTM A-525 SPECIFICATIONS
5. CARBON SHEET STEEL MUST MEET THE MINIMUM REQUIREMENTS OF ASTM A-1011 GRADE 55 KSI FOR 10, 12, 14, AND 16 GAUGE AND GRADE 33 KSI FOR 18 GAUGE AND LIGHT MEMBERS UON. CARBON SHEET STEEL PRODUCTS MUST BE THOROUGHLY COATED WITH A RUST INHIBITIVE PAINT.
6. ALL STRUCTURAL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH AMERICAN IRON AND STEEL INSTITUTE (AISI) NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STRUCTURAL STEEL MEMBERS LATEST ADOPTED EDITION (AISI S100-16).
7. METAL STUDS AND OR JOIST:
    A. FOR METAL STUD WALLS, UNLESS OTHERWISE SHOWN ON THE DRAWINGS, PROVIDE STAU NDARD PUNCHED STEEL MEMBERS OF THE GAUGES SHOWN ON THE DRAWINGS.
    B. USE ONLY ONE TYPE THROUGHOUT THE WORK, UNLESS OTHERWISE NOTED ON THE DRAWINGS OR SPECIFICALLY APPROVED IN ADVANCE BY THE ARCHITECT/ENGINEER
8. PROVIDE ALL ACCESSORIES INCLUDING, BUT NOT NECESSARILY LIMITED TO, TRACKS, CLIPS, WEB STIFFENERS, ANCHORS, FASTENING DEVICES, RESILIENT CLIPS AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE AND PROPER INSTALLATION, AND AS RECOMMENDED BY THE MANUFACTURER FOR THE STEEL MEMBERS USED
9. FASTENINGS OF COMPONENTS SHALL BE WITH SELF-DRILLINGS SCREWS OR WELDING. SCREWS OR WELDS SHALL BE SUFFICIENT SIZE TO INSURE THE STRENGTH OF THE CONNECTION. ALL WELDS OF GALVANIZED STEEL SHALL BE TOUCHED UP WITH ZINC-RICH PAINT. ALL WELDS OF CARBON SHEET STEEL SHALL BE TOUCHED UP WITH PAINT
10. ALL METAL STUDS SHALL BE BY SSMA APPROVED SUPPLIED, ICC ERS-4205. ALTERNATE METAL STUDS MUST BE OF EQUAL OR GREATER SECTIONS PROPERTIES AND SHALL BE APPROVED BY THE ENGINEER
11. PROVIDE SHOP DRAWINGS INDICATING MEMBERS GAUGES, SHAPES, SIZES, SPACING, LOCATIONS AND CONNECTIONS
12. STUDS SHALL BE INSTALLED WITH THEIR BEARING ENDS POSITIONED FLUSH AGAINST THE INSIDE TRACK WEB.
13. FULL-HEIGHT DOUBLE STUDS SHALL BE

GENERAL NOTES

1. ALL WORK SHALL CONFORM TO 2022 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
2. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISIONS OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR
3. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR
4. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TEST AND INSPECTIONS FOR THE PROJECT
5. THIS PC IS NOT APPROVED FOR CHAPTER 7A WILDLAND URBAN AREAS. WHEN THIS PC IS SITE ADAPTED FOR PROJECT SPECIFIC, THE REQUIREMENTS IS TO BE REVIEWED AND APPROVED BY THE PROJECT SPECIFIC PLAN REVIEWER

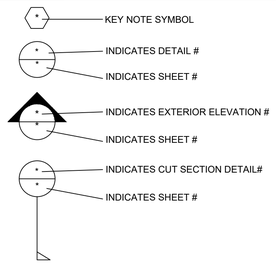
BUILDING CODES AND STANDARDS

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24, CCR
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, CCR
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24, CCR
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, CCR
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, CCR)
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24, CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, CCR
2022 CALIFORNIA EXISTING BUILDING STANDARDS CODE (CEBC), PART 10, TITLE 24
2022 CALIFORNIA GREEN BUILDING STANDARD CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHALL REGULATIONS

KSC COMPANY
15345 FAIRFIELD RANCH RD - SUITE 160 CHINO HILLS, CA 91709
OFFICE: (909) 740-3120, FAX: (909) 726-9470
WEBSITE: WWW.SKCCOMPANY.COM
MANUFACTURER #MF1279666 DEALER # DL1279666
GC LIC # 992118 SBE CERTIFIED

2022 CBC
ACCESSIBLE RAMP / LANDING / STAIR PC DESIGN (LESS THAN 30" SYSTEM)
RISK CATEGORY II
PC 04-122029

DRAWING SYMBOLS & LEGEND



SHEET INDEX

SHEET NO.	ARCHITECTURAL
R-1	COVER SHEET
R-2	DSA 103 TEST & SPECIAL INSPECTIONS SAMPLE
R-3	CONSTRUCTION SPECIFICATIONS & NOTES
R-4	STANDARD RAMP & LANDING (ATTACHED HANDRAIL TO BUILDING)
~~R-5~~	~~OFFSET RAMP & LANDING (FREE STANDING HANDRAILS)~~
~~R-6~~	~~COMMON LANDING & RAMP~~
~~R-7~~	~~STAIR & LANDING DETAILS~~
~~R-8~~	~~SWITCHBACK RAMP & LANDING~~
R-9	RAMP & LANDING DETAILS

TOTAL SHEET COUNT: ~~9~~ 5

DESIGN PARAMETERS

1. RAMP LIVE LOAD: 100 PSF
2. NO SNOW LOAD (GROUND SNOW LOAD Pg= 0 psf)
3. NO FLOOD LOADING
4. WIND:
   WIND DESIGN PER ASCE 7-16, CHAPTER 29
   SEE SCHEDULE BELOW FOR SITE SPECIFIC PARAMETERS
5. SEISMIC:
   RISK CATEGORY=II
   R = 1.25 (ASCE 7-16 TABLE 15.4-2)
   Ie = 1.0
   SITE CLASS = A,B, OR D
   Ss = 2.41
   Fa = 1.0
   S_{DS} = 1.61
   S_1 = 1.4

   SITE CLASS = C, OR D (DEFAULT)
   Ss = 2.01
   Fa = 1.2
   S_{DS} = 1.61
   S_1 = 1.4
   C_s = 1.93
6. ALLOWABLE SOIL BEARING = 1000 PSF

SITE SPECIFIC PARAMETERS

INSTRUCTIONS: DESIGN PROFESSIONAL SHALL CHECK THE APPROPRIATE SELECTION BOXES BELOW AND ENTER THE DESIGN PARAMETERS APPLICABLE TO THE SPECIFIC PROJECT SITE

WIND

V = 95 MPH < 95 MPH BASIC DESIGN WIND SPEED

Kzt = 1.0 ≤ 1.0

EXPOSURE: ☒ C ☐ D

SEISMIC

SELECT ONE

☒ DESIGN BASED ON SITE CLASS D DEFAULT
NO GEOTECHNICAL INVESTIGATION REQUIRED
Ss = 1.502 Fa = 1.2

☐ DESIGN BASED ON SITE CLASS DETERMINED PER CHAPTER 20 OF ASCE 7-16
GEOTECHNICAL INVESTIGATION PROVIDED
SITE CLASS: ☐ C ☐ D ☐ E
Ss = _____ Fa = _____ PER ASCE 7-16 SUPPL 3 TABLE 11.4-1

☐ DESIGN BASED ON SITE CLASS GROUND MOTION HAZARD ANALYSIS PER CHAPTER 21 OF ASCE 7-16
SHORT-PERIOD DESIGN SPECTRAL RESPONSE PARAMETER, S_{DS}, SHALL BE AS SPECIFIED IN GEOTECHNICAL INVESTIGATION
CGS APPROVAL REQUIRED
NOT ELIGIBLE FOR OTC REVIEW
SITE CLASS: ☐ C ☐ D ☐ E
Ss = _____ Fa = _____

S_{DS} = 2/3 Fa Ss= 1.200 ≤ 1.607

Cs = 1.607 USED IN DESIGN
SEISMIC DESIGN CATEGORY: ☐ D ☒ E
ASCE 7-16 12.8.1.3 HAS NOT BEEN USED IN CALCULATION OF Sds

PC LIMITATIONS

1. THE MAXIMUM DECK HEIGHT DESIGNED ON THIS PC IS 30". VERIFY WITH BUILDING MANUFACTURER MAXIMUM FINISH FLOOR HEIGHT FOR ABOVE GRADE FOUNDATIONS. THE MAXIMUM DECK HEIGHT SHALL BE SET FORTH PER THE BUILDING MANUFACTURER MAXIMUM FINISH FLOOR HEIGHT HOWEVER NOT TO EXCEED 30" MAX
2. THE MAXIMUM RAMP HANDRAIL DESIGN ON THIS PC IS 34" AFF
3. THIS PC IS NOT DESIGNED FOR DECKS HIGHER THAN 30" OR A GUARDRAIL DESIGN AT 42" MIN WHEN DECK HEIGHT EXCEEDS 30"
4. THE MINIMUM POINT LOAD DESIGNED ON THE HANDRAILS IS 200#
5. THE RAMP CLEAR WIDTH SET FORTH ON THIS PC IS DESIGNED FOR OCCUPANCIES LESS THAN 100 (OR NO GREATER THAN 48" CLEAR WIDTH)
6. THE STAIRS MAXIMUM CLEAR WIDTH SET FORTH ON THIS PC IS 48" MAX
7. THE MAXIMUM RAMP LENGTH SET FORTH ON THIS PC IS 30'-0" MAX
8. THE MAXIMUM SINGLE DECK SECTION SET FORTH ON THIS PC IS 6'-6" X 19'-10 1/2". ADDITIONAL DECK SECTIONS CAN BE ADDED TOGETHER (SEE #8/R-9) ON ANY SIDE OF THE DECK. THE MINIMUM DECK SECTION IS SHALL BE NO LESS THAN 4'-0" X 1'-0"
9. **THE DESIGN PROFESSIONAL HAS EXEMPTED THIS RAMP FROM SPECIAL INSPECTION REQUIREMENTS FOR MATERIAL IDENTIFICATION AND STRUCTURAL WELDING. RAMP SHALL NOT BE MODIFIED NOR HAVE SHIMS ADDED CAUSING THE DISTANCE BETWEEN THE HIGHEST RAMP WALKING SURFACE AND THE ADJACENT GRADE TO BE MORE THAN 30" INCHES. IF THIS CONDITION IS NOT MET, STRUCTURAL TESTING AND/OR INSPECTION WILL BE REQUIRED TO VERIFY MATERIALS AND STRUCTURAL WELDING. THIS APPLIES TO SCOPE OF WORK INCLUDING NEW CONSTRUCTION, ALTERATION, OR RELOCATION OF RAMP. REFER TO DSA 103 APPENDIX, IR PC-2 AND IR PC-6**
10. RAMP SLOPE SHALL NOT BE LESS THAN 1:12 (OR GREATER THAN 8.33% MAX). RAMP SLOPE GRATER THAN 1:20 (OR LESS THAN 5.0%) DOES NOT NEED TO COMPLY WITH HANDRAIL REQUIREMENTS

STATE AGENCY APPROVAL

KSC COMPANY
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WEBSITE: WWW.SKCCOMPANY.COM
MANUFACTURER #MF1279666 DEALER # DL1279666
GC LIC # 992118 SBE CERTIFIED

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DISTRICT/CUSTOMER NAME:
ANTELOPE UNION
HIGH SCHOOL DISTRICT

SCHOOL/SITE NAME:
SOARS
HIGH SCHOOL

SHEET TITLE:
COVER SHEET

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122029 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/27/2023

PROFESSIONAL OF RECORD ON PC

ORION
Orion Structural Engineering, Inc.
11305 RANCHO BERNARDO RD SUITE 121
SAN DIEGO CA, 92127
PHONE (858) 679-1974
REGISTERED PROFESSIONAL ENGINEER
RYAN J. ORION
No. 32127
EXP. 12/31/24
STRUCTURAL
STATE OF CALIFORNIA

FIRM: ORION STRUCTURAL ENGINEERING, INC.
ADDRESS: 11305 RANCHO BERNARDO ROAD, SUITE 121
CITY: SAN DIEGO, CA 92127
PHONE: (858) 679-1974

PROJECT SPECIFIC PROFESSIONAL OF RECORD

FIRM:
ADDRESS:
CITY:
PHONE:

REVISIONS

1 -
2 -
3 -
4 -
5 -

PROJECT NO.:	00-0000
DRAFTER:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

R-1

9/26/2023 9:27:23 AM

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC

Application Number:	School Name:	School District:
04-122029	Accessible Ramp Landing Stair PC	SKC Company
DSA File Number:	Increment Number:	Date Created:
PC-116		2023-02-20 13:43:59

2022 CBC

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).

**NOTE: Undefined section and table references found in this document are from the CBC, or California Building Code.

KEY TO COLUMNS

1. TYPE	2. PERFORMED BY
Continuous – Indicates that a continuous special inspection is required Periodic – Indicates that a periodic special inspection is required Test – Indicates that a test is required	GE (Geotechnical Engineer) – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative. LOR (Laboratory of Record) – Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335. PI (Project Inspector) – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA. SI (Special Inspection) – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (OTHER), 2022 CBC

Application Number:	School Name:	School District:
04-122029	Accessible Ramp Landing Stair PC	SKC Company
DSA File Number:	Increment Number:	Date Created:
PC-116		2023-02-20 13:43:59

	X1. OTHER:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Load test for identified product(s):	Test	LOR	1709A.2, 1709A.3. Testing is not required for: 1) a product with a valid evaluation service report per DSA IR A-5, or 2) a product that can be justified by structural calculation.
☐	b. Installation torque for non-HS bolts	Continuous	SI*	Applicable to communication towers identified as Essential Service Facility Projects (ESFP). Calibrated wrench use required, verified by SI during installation. DSA Policy PL 18-01: Communication Towers, Poles and Buildings Utilized by State Agencies for Essential Services Communications.*EXCEPTION: Non-ESFP may use PI without need for notification to DSA.
☐	c.			

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

Application Number:	School Name:	School District:
04-122029	Accessible Ramp Landing Stair PC	SKC Company
DSA File Number:	Increment Number:	Date Created:
PC-116		2023-02-20 13:43:59

Exempt items given in DSA IR A-22 or the 2019 CBC (including DSA amendments) and those items identified below with a check mark by the design professional are NOT subject to DSA requirements for the structural tests / special inspections noted. Items marked as exempt shall be identified on the approved construction documents. The project inspector shall verify all construction complies with the approved construction documents.

	SOILS:
☐	1. Deep foundations acting as a cantilever footing with a design based on minimum allowable pressures per CBC Table 1806A.2 and without a geotechnical report for the following cases: A) free standing sign or scoreboard, B) cell or antenna towers and poles less than 35'-0" tall (e.g., lighting poles, flag poles, poles supporting open mesh fences, etc.), C) single-story structure with dead load less than 5 psf (e.g., open fabric shade structure), or D) covered walkway structure with an apex height less than 10'-0" above adjacent grade.
☐	2. Shallow foundations, etc. are exempt from special inspections and testing by a Geotechnical Engineer for the following cases: A) buildings without a geotechnical report and meeting the exception item #1 criteria in CBC Section 1803A.2 supported by native soil (any excavation depth) or fill soil (not exceeding 12" depth per CBC Section 1804A.6), B) soil scarification/recompaction not exceeding 12" depth, C) native or fill soil supporting exterior non-structural flatwork (e.g., sidewalks, site concrete ramps, site stairs, parking lots, driveways, etc.), D) unpaved landscaping and playground areas, or E) utility trench backfill.

	CONCRETE/MASONRY:
☐	1. Post-installed anchors for the following: A) exempt non-structural components (e.g., mechanical, electrical, plumbing equipment - see item 7 for "Welding" in the Appendix below) given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) or B) interior nonstructural wall partitions meeting criteria listed in exempt item 3 for "Welding" in the Appendix below
☐	2. Concrete batch plant inspection is not required for items given in CBC Section 1705A.3.3.2 subject to the requirements and limitations in that section.
☐	3. Non-bearing non-shear masonry walls may be exempt from certain DSA masonry testing and special inspection items as allowed per DSA IR 21-1. Refer to construction documents for specific exemptions accordingly for each applicable wall condition.
☐	4. Epoxy shear dowels in site flatwork and/or other non-structural concrete.

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

Application Number:	School Name:	School District:
04-122029	Accessible Ramp Landing Stair PC	SKC Company
DSA File Number:	Increment Number:	Date Created:
PC-116		2023-02-20 13:43:59

	CONCRETE/MASONRY:
☐	5. Testing of reinforcing bars is not required for items given in CBC Section 1910A.2 subject to the requirements and limitations in that section.

	WELDING:
☐	1. Solid-clad and open-mesh fences, gates with maximum leaf span of 10', and gates with a maximum rolling section of 10' all having an apex height less than 8'-0" above lowest adjacent grade. When located above circulation or occupied space below, these gates/fences are not located within 1.5x gate/fence height (max 8'-0") to the edge of floor or roof.
☑	2. Handrails, guardrails, and modular or relocatable ramps associated with walking surfaces less than 30" above adjacent grade (excluding post base connections per the 'Exception' language in Section 1705A.2.1); fillet welds shall not be ground flush.
☐	3. Non-structural interior cold-formed steel framing spanning less than 15'-0", such as in interior partitions, interior soffits, etc. supporting only self weight and light-weight finishes or adhered tile, masonry, stone, or terra cotta veneer no more than 5/8" thickness and apex less than 20'-0" in height and not over an exit way. Maximum tributary load to a member shall not exceed the equivalent of that occurring from a 10'x10' opening in a 15' tall wall for a header or king stud.
☐	4. Manufactured support frames and curbs using hot rolled or cold-formed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment weighing less than 2000# (equipment only) (connections of such frames to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).
☐	5. Manufactured components (e.g., Tolco, B-Line, Afcon, etc.) for mechanical, electrical, or plumbing hanger support and bracing (connections of such components to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).
☐	6. TV Brackets, projector mounts with a valid listing (see DSA IR A-5) and recreational equipment (e.g., playground structures, basketball backstops, etc.) (connections of such elements to superstructure elements using welding will require special inspection as noted in selected item(s) for sections S/A3, S/A4 and/or S/A5 located in the Steel/Aluminum category of listing above).
☐	7. Any support for exempt non-structural components given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) meeting the following: A) when supported on a floor/roof, <400# and resulting composite center of mass (including component's center of mass) ≤4' above supporting floor/roof, B) when hung from a wall or roof/floor, <20# for discrete units or <5 plf for distributed systems.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS(SIGNATURE), 2022 CBC

Application Number:	School Name:	School District:
04-122029	Accessible Ramp Landing Stair PC	SKC Company
DSA File Number:	Increment Number:	Date Created:
PC-116		2023-02-20 13:43:59

Name of Architect or Engineer in general responsible charge:

Name of Structural Engineer (When structural design has been delegated):

Signature of Architect or Structural Engineer: Date:

Note: To facilitate DSA electronic mark-ups and identification stamp application, DSA recommends against using secured electronic or digital signatures.

DSA STAMP

DSA 103-22: LIST OF REQUIRED VERIFIED REPORTS, CBC 2022

Application Number:	School Name:	School District:
04-122029	Accessible Ramp Landing Stair PC	SKC Company
DSA File Number:	Increment Number:	Date Created:
PC-116		2023-02-20 13:43:59

THE SAMPLE DSA 103 FORMS SHOWN ON THIS SHEET ARE FOR ILLUSTRATION PURPOSES ONLY. A SEPARATE DSA 103 FORM IS TO BE COMPLETED FOR EACH PROJECT SPECIFIC APPLICATION THAT THIS PC IS BEING INCORPORATED INTO. THE DSA 103 FORM IS TO BE COMPLETED BY THE ARCHITECT OF RECORD FOR THE OVERALL SCOPE OF WORK ON THE PROJECT SPECIFIC APPLICATION. MODULAR BUILDING MANUFACTURER (OR DESIGN BUILD CONTRACTOR) IS ONLY RESPONSIBLE FOR COMPLETING DSA103 FORM ON STOCKPILE PROJECTS. THE SAMPLE DSA 103 FORM SHALL BE CROSSED OUT ON THIS DRAWING.

STATE AGENCY APPROVAL

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DISTRICT/CUSTOMER NAME:
ANTELOPE UNION
HIGH SCHOOL DISTRICT

SCHOOL/SITE NAME:
SOARS
HIGH SCHOOL

SHEET TITLE:
DSA 103
TEST & SPECIAL INSPECTIONS
SAMPLE

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122029 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/27/2023

PROFESSIONAL OF RECORD ON PC

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PROJECT SPECIFIC PROFESSIONAL OF RECORD

FIRM:
ADDRESS:
CITY:
PHONE:

REVISIONS

1	-
2	-
3	-
4	-
5	-

PROJECT NO.:	00-0000
DRAFTER:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER
R-2

9/26/2023 9:27:48 AM

GENERAL NOTES

GENERAL NOTES:

1. ALL CONSTRUCTION SHALL COMPLY WITH THE 2022 EDITION OF THE CALIFORNIA BUILDING CODE, CCR TITLE 24, PART 2 (CBC) AND CCR TITLE 24, PART 1, CHAPTER 4, GROUP 1, LATEST REVISIONS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE BUILDING DURING CONSTRUCTION AND SHALL PROVIDE ADEQUATE SHORING AND BRACING DURING CONSTRUCTION. CONTRACTOR SHALL COMPLY WITH APPLICABLE SAFETY REGULATIONS
3. DETAILS NOT SPECIFICALLY SHOWN SHALL BE CALLED TO THE ATTENTION OF THE MANUFACTURER OR DESIGN PROFESSIONAL AND DSA.
4. THE CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS. ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE OWNER AND BE RESOLVED BEFORE PROCEEDING WITH THE WORK.
5. NO STRUCTURAL MEMBERS SHALL BE CUT, NOTCHED OR OTHERWISE PENETRATED UNLESS SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER IN ADVANCE OR SHOWN ON THESE DRAWINGS
6. TYPICAL DETAILS SHALL APPLY UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
7. WHERE THESE GENERAL NOTES AND TYPICAL DETAILS ARE IN CONFLICT WITH THE CUSTOMER SPECIFICATIONS, THESE GENERAL NOTES AND TYPICAL DETAILS SHALL GOVERN.
8. NOT USED
9. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND OTHER INFORMATION NOT SPECIFICALLY SHOWN ON STRUCTURAL DRAWINGS
10. ALL ELEVATIONS ARE REFERENCED FROM TOP OF FINISHED FIRST FLOOR ELEVATION = 0'-0"
11. NOT USED
12. NOT USED
13. DIMENSIONS AND ELEVATIONS SHOWN ARE APPROXIMATE AND ARE PROVIDED AS AN AID IN INTERPRETING THE DRAWINGS ONLY. DIMENSIONS AND ELEVATIONS MUST BE VERIFIED WITH ARCHITECTURAL DRAWINGS. IN THE EVENT OF CONFLICT, DIMENSIONS AND ELEVATIONS SHOWN ON ARCHITECTURAL DRAWINGS SHALL GOVERN. DRAWING SCALES GIVEN ARE APPROXIMATE - DO NOT SCALE PLANS OR DETAILS
14. NOT USED

WOOD:

1. STRUCTURAL FRAMING SHALL BE HEM FIR GRADED IN ACCORDANCE WITH THE STANDARD GRADING RULES OF THE WESTERN WOOD PRODUCTS ASSOCIATION OR STANDARD GRADING RULES #17 OF THE WEST COAST LUMBER INSPECTION BUREAU, LATEST EDITIONS. GRADES SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON THE DRAWINGS. (HEM FIR NORTH IS NOT ALLOWED.) EACH PIECE SHALL BE GRADE MARKED AND NO PIECE MAY FALL BELOW GRADES INDICATED.
   ALL FRAMING EXCEPT AS NOTED HEM FIR #2
2. PLYWOOD SHALL BE AS SHOWN ON THESE DRAWINGS WITH EXTERIOR GLUE IN ACCORDANCE WITH U.S. PRODUCT STANDARD PS 1-19. ALL PANELS SHALL BE MARKED WITH AN APA GRADE MARK WITH AN IDENTIFICATION INDEX AS SHOWN ON DRAWINGS.
3. LAG SCREWS SHALL BE STEEL AND CONFORM TO ANSI/ASME STANDARD B18.2.1 AND THE REQUIREMENTS OF THE 2018 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS). HOLES FOR LAG SCREW SHANKS SHALL BE BORED THE SAME DEPTH AND DIAMETER AS THE SHANK. THE REMAINING DEPTH OF PENETRATION OF THE SCREW SHALL BE BORED TO 70% OF THE SHANK DIAMETER. ONE QUARTER INCH (1/4") DIAMETER LAG SCREWS NEED NOT HAVE PRE-DRILLED HOLES IF IT CAN BE SHOWN THAT THE WOOD MEMBERS ARE NOT DAMAGED DURING INSTALLATION. PROVIDE FULL BODY DIAMETER LAG SCREWS WITH BENDING YIELD STRENGTHS PER THE 2018 NDS.
4. PROVIDE MALLEABLE IRON WASHERS OR EQUIVALENT CUT PLATE WASHERS (NOT LESS THAN A STANDARD CUT WASHER) UNDER NUTS AND BOLT OR LAG SCREW HEADS WHICH BEAR ON WOOD.
5. WOOD SCREWS SHALL CONFORM TO ANSI/ASME STANDARD B18.6.1 AND THE REQUIREMENTS OF THE 2018 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS). GALVANIZED OR OTHER CORROSION RESISTANT COATING WHERE EXPOSED TO WEATHER OR USED IN FOUNDATIONS. SCREWS SHALL BE STEEL WITH CUT THREADS AND BENDING YIELD STRENGTHS NDS.
6. WOOD MEMBERS SHALL BE CUT OR NOTCHED ONLY AS SHOWN ON STRUCTURAL DRAWINGS.
7. WHEN REQUIRED NAILING TENDS TO SPLIT WOOD MEMBERS, NAIL HOLES SHALL BE PRE-BORED TO 3/4 OF THE NAIL DIAMETER.
8. STRUCTURAL NAILING SHALL BE WITH FULL HEAD COMMON NAILS PER ALL REQUIREMENTS OF THE 2018 NDS. NAILING NOT SPECIFICALLY INDICATED SHALL COMPLY WITH CCR TITLE 24, PART 2, TABLE 2304.10.2. ALL NAILS SHALL BE GALVANIZED OR OTHER CORROSION RESISTANT COATING WHERE EXPOSED TO WEATHER, IN FOUNDATIONS AND AS NOTED ON PLANS, PER THE REQUIREMENTS OF CCR TITLE 24, PART 2, WITH MINIMUM BENDING YIELDS PER THE 2018 NDS. (SEE NAIL EQUIVALENCE BELOW.)
9. NAIL EQUIVALENCE: (PROVIDE MINIMUM NAIL LENGTHS AS REQUIRED FOR SPECIFIED PENETRATION, TYP UNO) 6d EQUALS .113"Ø - PROVIDE 1.36" MIN POINT PENETRATION 8d EQUALS .131"Ø - PROVIDE *1.57" MIN POINT PENETRATION 10d EQUALS .148"Ø - PROVIDE *1.78" MIN POINT PENETRATION 16d EQUALS .162"Ø - PROVIDE *1.94" MIN POINT PENETRATION * 1 1/2" AT 2x MEMBERS
10. EXCEPT WHERE MORE STRINGENT CONSTRUCTION IS SHOWN ON THE DRAWINGS, WOOD CONSTRUCTION SHALL COMPLY WITH TITLE 24, PART 2, SECTION 2308, CONVENTIONAL LIGHT-FRAME CONSTRUCTION PROVISIONS, AS A MINIMUM
11. PRESSURE PRESERVATIVE TREATMENT SHALL BE PER SECTION 2303.1.9, CCR TITLE 24, PART 2. PROVIDE QUALITY MARK ON ALL TREATED FOUNDATION MEMBERS FROM AGENCY LISTED BY AN ACCREDITATION BODY THAT COMPLIES WITH THE REQUIREMENTS OF THE AMERICAN LUMBER STANDARDS TREATED WOOD PROGRAM. ALL FOUNDATION MEMBERS SHALL BE IDENTIFIED PER SECTION 2303.1.9.1. TREAT ALL CUT ENDS OF PRESSURE TREATED MEMBERS WITH AN APPROVED PRESERVATIVE. (WILLARD W/B COPPER GREEN 2% OR AN APPROVED EQUIVALENT).
12. MACHINE NAILING IS SUBJECT TO APPROVAL BY THE STRUCTURAL ENGINEER OR ARCHITECT AND THE DIVISION OF THE STATE ARCHITECT.
13. POWDER DRIVEN FASTENERS SHALL BE BY HILTI, INC, HILTI FASTENING SYSTEMS - OR EQUAL. INSTALL IN ACCORDANCE WITH DRAWINGS AND THE MANUFACTURER'S RECOMMENDATIONS AND ICC APPROVALS
14. FASTENERS FOR PRESSURE-PRESERVATIVE TREATED WOOD SHALL COMPLY WITH SECTION 2304.10.6 OF CBC
15. NAILS AND SPIKES USED IN WET OR EXTERIOR LOCATIONS SHALL COMPLY WITH SECTION 2304.10.2.1 OF CBC

STRUCTURAL STEEL:

1. NOT USED
2. NOT USED
3. NOT USED
4. ALL WELDING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CALIFORNIA BUILDING CODE (CBC) AND THE STRUCTURAL WELDING CODE – STEEL, AWS D1.1, 2015 EDITION OF THE AMERICAN WELDING SOCIETY. WELDING DONE BY SHIELDING ELECTRIC-ARC OR FLUX-CORED PROCESS COMPLYING WITH AWS.
5. FABRICATION AND ERECTION OF STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2016 EDITION OF THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) (CBC CHAPTER 22A). ALSO COMPLY WITH REQUIREMENTS OF THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES. TEMPORARY BRACING IS REQUIRED AS NEEDED UNTIL ALL ELEMENTS SHOWN ON STRUCTURAL DRAWINGS ARE IN PLACE.
6. PRIME ALL STEEL SURFACES WITH AN APPROVED PRIMER, EXCEPT SURFACES TO BE EMBEDDED IN CONCRETE AND SURFACES TO RECEIVE FIELD WELDS. TOUCH-UP FIELD WELDS AND OTHER EXPOSED STEEL SURFACES AFTER ERECTION. ALTERNATE: PROVIDE GALVANIZED PER ASTM A-123.
7. N/A
8. QUALIFIED AND CERTIFIED WELDERS SHALL BE USED FOR ALL WELDING. ALL WELDING TO CONFORM TO THE 2015 EDITION OF THE AMERICAN WELDING SOCIETY STRUCTURAL WEDLING CODE AWS D1.1
9. MATERIALS:

ANGLES, MISC STEEL	ASTM A36
PLATES	ASTM A-572 GRADE 50
WELDING ELECTRODES	AWS STRUCTURAL STEEL E70XX,
TYPICAL STEEL CONNECTION BOLTS	ASTM A307 GRADE A
RUSH-INHIBITING PRIMER	TT-P-645
RECTANGULAR HSS MEMBERS	ASTM A-500 GRADE B (Fy = 46 KSI)

10. CONNECTED MEMBERS SHALL BEAR ONLY UPON UNTHREADED PORTIONS OF BOLTS
11. BURNING OF HOLES IS NOT ALLOWED
12. NOT USED
13. THE STRUCTURAL STEEL FABRICATOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION
14. BOLT HOLES SHALL BE 1/16" LARGER IN DIAMETER THAN NOMINAL SIZE OF BOLTS USED, UNO

ACCEPTABLE FASTENERS:

SELF-TAPPING SCREWS	SECT 3.2.12 ASTM C1513
SELF-DRILLING SCREWS	SECT 3.2.9 ASTM C1513
SELF-PIERCING SCREWS	SECT 3.2.9 ASTM C1513

REFERENCE ASTM C1513, STANDARD SPECIFICATION FOR TAPPING SCREWS FOR COLD-FORMED STEEL FRAMING CONNECTION

REFERENCE AISI S400-20 , NORTH AMERICAN STANDARD FOR SEISMIC DESIGN

FASTENERS MANUFACTURED WITH CARBON STEEL WIRE SHALL CONFORM TO ASTM A510

TESTING - THE OPERATOR, TOOL, AND FASTENER SHALL BE PRE-QUALIFIED BY THE PROJECT INSPECTOR. HE SHALL OBSERVE THE TESTING OF THE FIRST 10 FASTENER INSTALLATIONS. A TEST "PULL-OUT" LOAD OF NOT LESS THAN TWICE THE DESIGN LOAD SHALL BE APPLIED TO THE PIN IN SUCH A MANNER AS NOT TO RESIST THE SPALLING TENDENCY OF THE CONCRETE SURROUNDING THE PIN. THEREAFTER, RANDOM TEST UNDER THE PROJECT INSPECTOR'S SUPERVISION SHALL BE MADE OF APPROXIMATELY 1 IN 10 PINS. IF ANY PIN FAILS TESTING, TEST ALL PINS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE PASS, THEN RESUME THE INITIAL TESTING FREQUENCY.

COLD FORMED STRUCTURAL STEEL:

1. NOT USED
2. NOT USED
3. CORROSION PROTECT PER TABLE A4-1 BELOW
4. GALVANIZED COATINGS MUST MEET ASTM A-525 SPECIFICATIONS
5. CARBON SHEET STEEL MUST MEET THE MINIMUM REQUIREMENTS OF ASTM A-1011 SS GRADE 55 & 33 GRADE 55 KSI FOR 10, 12, 14, AND 16 GAUGE AND GRADE 33 KSI FOR 18 GAUGE AND LIGHT MEMBERS UON. CARBON SHEET STEEL PRODUCTS MUST BE THOROUGHLY COATED WITH A RUST INHIBITIVE PAINT.
6. ALL STRUCTURAL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH AMERICAN IRON AND STEEL INSTITUTE (AISI) NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STRUCTURAL STEEL MEMBERS LATEST ADOPTED EDITION AISI S100-16 (2020) W/S2-20.
7. NOT USED
8. NOT USED
9. FASTENINGS OF COMPONENTS SHALL BE WITH SELF-DRILLINGS SCREWS OR WELDING. SCREWS OR WELDS SHALL BE SUFFICIENT SIZE TO INSURE THE STRENGTH OF THE CONNECTION. ALL WELDS OF GALVANIZED STEEL SHALL BE TOUCHED UP WITH ZINC-RICH PAINT. ALL WELDS OF CARBON SHEET STEEL SHALL BE TOUCHED UP WITH PAINT
10. NOT USED
11. PROVIDE SHOP DRAWINGS INDICATING MEMBERS GAUGES, SHAPES, SIZES, SPACING, LOCATIONS AND CONNECTIONS
12. STUDS SHALL BE INSTALLED WITH THEIR BEARING ENDS POSITIONED FLUSH AGAINST THE INSIDE TRACK WEB.
13. NOT USED
14. NOT USED
15. N/A
16. NOT USED
17. ALL SHEET METAL SCREWS SHALL BE THREAD FORMING OR THREAD CUTTING, WITH OR WITHOUT A SELF-DRILLING POINT PER AISI
18. ALL WELDING OR MATERIAL LESS THAN 0.18 INCHES IN THICKNESS SHALL BE MADE IN ACCORDANCE WITH THE AWS D1.3 WELDERS AND WELDING PROCEDURES AND SHALL BE QUALIFIED AS SPECIFIED IN AWS D1.3
19. TOUCH UP COLD GALVANIZING USING ZRC CHEMICAL PRODUCTS CO.M, ZRC COLD GALVANIZING COMPOUND OR EQUAL
20. SPLICES IN STUDS SHALL NOT BE PERMITTED

CORROSION PROTECTION:

1. STRUCTURAL MEMBERS UTILIZED IN COLD-FORMED STEEL FRAMED CONSTRUCTION SHALL HAVE A PROTECTIVE COATING AS SPECIFIED IN TABLE A4-1

TABLE A4-1
COATING DESIGNATIONS

COATING CLASSIFICATION	COATING DESIGNATOR	MINIMUM COATING REQUIREMENTS			
		ZINC COATED[A] OZ/FT²(G/M²)	ZINC IRON[B] OZ/FT²(G/M²)	55% AL-ZINC[C] OZ/FT²(G/M²)	ZINCE-5%[D] OZ/FT²(G/M²)
METALLIC COATED	CP 60	G60 [F180]	A60 [F180]	AZ50 [AZM1850]	CF30 [ZGF90]
	CP 90	G90 [Z275]	NOT APPLICABLE	AZ50 [AZM1850]	CF45 [ZGF135]
PAINTED METALLIC	PM	THE METALLIC COATED SUBSTRATE SHALL MEET THE REQUIREMENTS OF METALLIC COATED. IN ADDITION, THE PAINT FILM SHALL HAVE A MINIMUM THICKNESS OF 0.5 MIL PER SIDE (PRIMER PLUS TOPCOAT) WITH A MINIMUM PRIMER THICKNESS OF 0.1 MIL PER SIDE			

[A] ZINC-COATED STEEL SHEET AS DESCRIBED IN ASTM A653/A653M
[B] ZINC-IRON ALLOY-COATED STEEL SHEET AS DESCRIBED IN ASTM A653/A653M
[C] 55% ALUMINUM-ZINCE ALLOY COATED STEEL SHEET AS DESCRIBED IN ASTM A792/A792M
[D] ZINCE-5% ALUMINUM ALLOY-COAED STEEL SHEET AS DESCRIBED IN ASTM A875/A875M
[E] IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A1003/A1003M

2. ADDITIONAL CORROSION PROTECTION SHALL NOT BE REQUIRED ON EDGES OF METALLIC-COATED STEEL FRAMING MEMBERS, SHOP OR FIELD CUT, PUNCHED OR DRILLED
3. UNLESS ADDITIONAL CORROSION PROTECTION IS PROVIDED, FRAMING MEMBERS SHALL BE LOCATED WITHIN THE BUILDING ENVELOPE AND SHIELDED FROM DIRECT CONTACT WITH MOISTURE FROM THE GROUND OR THE OUTDOOR CLIMATE

ACCESS NOTES

1. RAMPS HAVING SLOPES STEEPER THAN 1 VERTICAL TO 20 HORIZONTAL SHALL HAVE LANDINGS AT TOP AND BOTTOM AND AT LEAST ONE INTERMEDIATE LANDING SHALL BE PROVIDED FOR EACH 30" RISE OF RISE PER CBC 11B-405.7
2. LOCATION OF LANDINGS - LANDINGS SHALL BE PROVIDED AT THE TOP AND BOTTOM OF EACH RAMP. INTERMEDIATE LANDINGS SHALL BE PROVIDED A INTERVALS NOT EXCEEDING 30" OF VERTICAL RISE AND AT EACH CHANGE OF DIRECTION. LANDINGS ARE NOT CONSIDERED IN DETERMINING THE MAXIMUM HORIZONTAL DISTANCE OF EACH RAMP

   EXAMPLES OF RAMP DIMENSIONS:

SLOPE:	MAX RISE (INCHES):	MAX HORIZONTAL PROJECTION:
1:12	30	30'-0"
1:15	30	37'-6"
1:16	30	40'-0"

   SIZE OF LANDINGS SHALL NOT BE LESS THAN 60" WIDE AND SHALL HAVE A LENGTH OF NOT LESS THAN 60" IN THE DIRECTION OF THE RAMP RUN PER CBC 11B-405.7.2 & 11B-405.7.3. AT THE BOTTOM LANDING OR LANDING AT CHANGE OF RAMP DIRECTION, THE LANDING SHALL SLOPE 1:48 MAX AND EXTEND MIN 72" IN THE DIRECTION OF THE RAMP
3. DOORS IN ANY POSITION SHALL NOT BE REDUCE THE MINIMUM DIMENSIONS OF THE LANDING TO LESS THAN 42" AND SHALL NOT REDUCE THE REQUIRED WIDTH BY MORE THAN 3" WHEN FULLY OPENED PER CBC 11B-405.7.5
4. RAMPS SHALL BE CONSTRUCTED AS REQUIRED. ALL REQUIREMENTS SHALL CONFORM TO CBC 11B-405
5. THE SURFACE OF RAMPS, LANDING & STAIRS SHALL BE ROUGHED OR SHALL BE OF SLIP-RESISTANT MATERIAL WITH A COEFFICIENT OF FRICTION OF 0.6 FOR LANDINGS AND 0.8 FOR RAMP AND STAIRS
6. RAMPS AND STAIRWAY USED AS THE EXIT REQUIRED WIDTH SHALL CONFORM TO CBC SECTION 1009, 1010, CHAPTER 11B & 11B-405.5
7. HANDRAILS SHALL CONFORM TO CBC SECTION 11B-405.8 (RAMPS) AND 11B-504.6 (STAIRS)
8. STRIKE EDGE EXTENSION THE WIDTH OF THE LANDING SHALL EXTEND 24" PAST THE STRIKE EDGE OF ANY DOOR OR GATE FOR EXTERIOR RAMPS AND 18" PAST THE STRIKE EDGE FOR INTERIOR RAMPS. FOR DOOR SWINGING INTO LANDING, 42" MIN IS REQUIRED PER 11B-405.7.5
9. CHANGE IN DIRECTION - RAMPS THAT CHANGE DIRECTION BETWEEN RUNS AT LANDING SHALL HAVE A CLEAR LANDING 60" MINIMUM BY 72" MINIMUM IN THE DOWNWARD DIRECTION OF TRAVEL PER CBC 11B-405.7.4 AND 72" MIN REQUIRED AT THE BOTTOM LANDING
10. THE WIDTH OF RAMPS SHALL HAVE A MINIMUM WIDTH OF 48" OR AS WIDE AS REQUIRED EXIT WIDTH IF LARGER REQUIRED PER STAIRWAY AND EXITS PER CBC 11B-405.5
11. LANDINGS AND RAMPS SHALL BE SLOPED AT 1:48 MAX TO PREVENT THE ACCUMULATION OF WATER ON WALKING SURFACES PER CBC 11B-405.10. SEE CBC 11B-504.7 FOR STAIRS
12. SITE CONDITION: DUE TO VARIES SITE CONDITIONS, THE MAXIMUM HEIGHT OF FINISH FLOOR FROM GRADE IS 26". THEREFORE IT IS POSSIBLE THAT THE ACCESS RAMP ATTACHED TO THE COMMON LANDING COULD BE 26'-0". AT A SLOPE OF 1:12, THE ARCHITECT MUST TAKE INTO ACCOUNT THAT THE RAMP SUPPLIED BY SKC COMPANY IS 11'-0". AT A SLOPE OF 1:12 THE ARCHITECT WILL HAVE TO DESIGN AND PROVIDE SUFFICIENT DETAILS OF RAMP EXTENSIONS AND BOTTOM LANDING DEPENDING ON PARTICULAR SITE CONDITIONS ICS WILL NOT BE RESPONSIBLE FOR ANY RAMP EXTENSION EXCEEDING ORIGINAL PLAN AS SHOWN ON PLANS

STATE AGENCY APPROVAL

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DISTRICT/CUSTOMER NAME:
ANTELOPE UNION
HIGH SCHOOL DISTRICT

SCHOOL/SITE NAME:
SOARS
HIGH SCHOOL

SHEET TITLE:
CONSTRUCTION SPECIFICATIONS AND NOTES

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122029 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/27/2023

PROFESSIONAL OF RECORD ON PC

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REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA
EXP. 12/31/24
STRUCTURAL

FIRM: ORION STRUCTURAL ENGINEERING, INC.
ADDRESS: 11305 RANCHO BERNARDO ROAD, SUITE 121
CITY: SAN DIEGO, CA 92127
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PROJECT SPECIFIC PROFESSIONAL OF RECORD

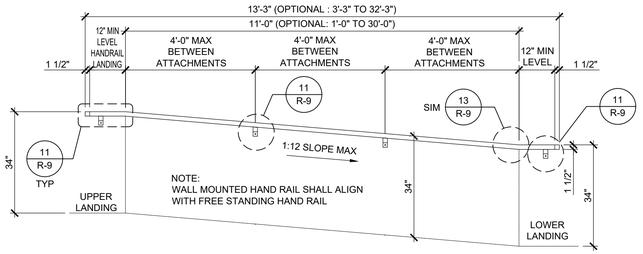
FIRM:
ADDRESS:
CITY:
PHONE:

REVISIONS
1 -
2 -
3 -
4 -
5 -

PROJECT NO.:	00-0000
DRAFTER:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER
R-3

9/26/2023 9:28:02 AM



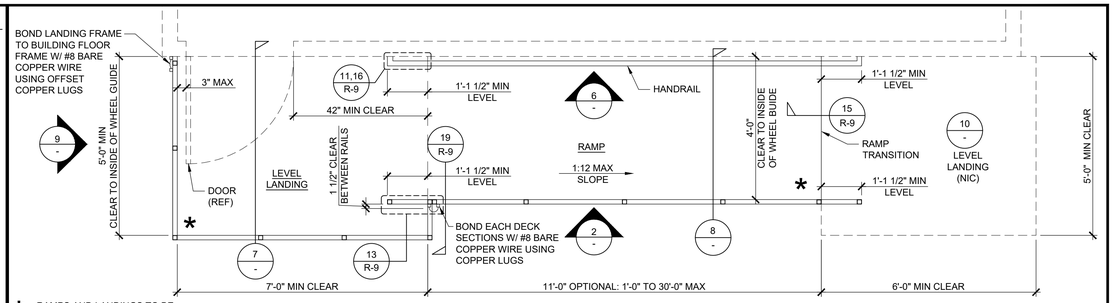
HANDRAIL ATTACHMENT TO BUILDING

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

6

NOTE(✱):
ALL HAND RAILS SURFACES SHALL BE SMOOTH WITH NO SHARP CORNER, PER CBC 11B-505.8 WALL TO BE SMOOTH AND TO EXTEND 18" ABOVE HANDRAIL.

ATTACHED TO BUILDING MEMBER BY OTHERS.



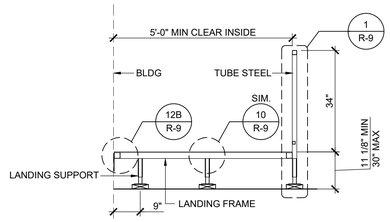
✱ RAMPS AND LANDINGS TO BE SLOPED SO AS NOT TO RETAIN STANDING WATER,1:48 (2.083%) MAX SLOPE

RAMP AND LANDING AT BUILDING

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

1

11

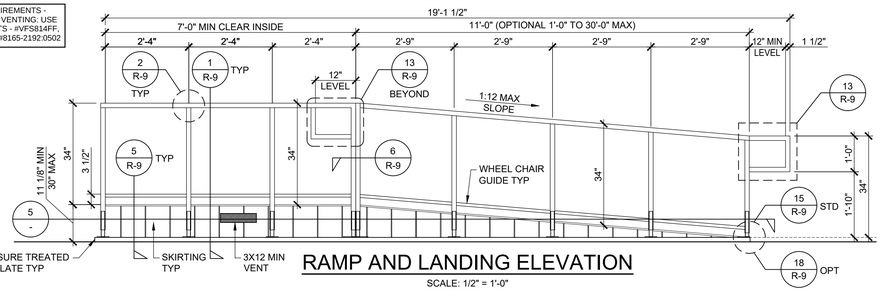


SECTION AT LANDING

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

7

CHP 7A REQUIREMENTS - FOUNDATION VENTING: USE VULCAN VENTS - #VFS814FF, SFM LISTING #8165-2192:0502



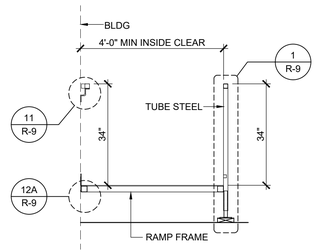
RAMP AND LANDING ELEVATION

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

2

CHP 7A REQUIREMENTS - FOUNDATION VENTING: USE VULCAN VENTS - #VFS814FF, SFM LISTING #8165-2192:0502

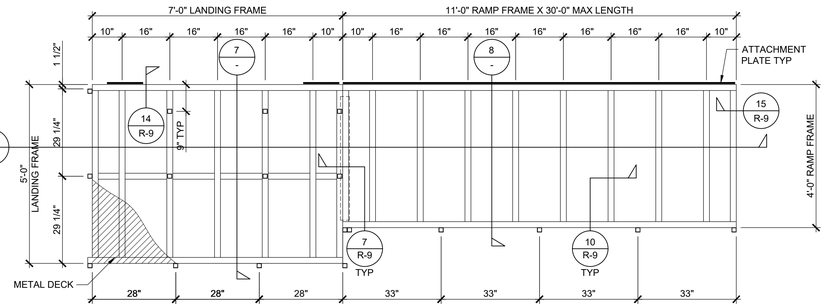
NOTE(✱):
ALL HAND RAILS SURFACES SHALL BE SMOOTH WITH NO SHARP CORNER, PER CBC 11B-505.8 WALL TO BE SMOOTH AND TO EXTEND 8" ABOVE HANDRAIL



SECTION AT RAMP

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

8



NOTE:
PER CBC 1012.5.1 MINIMUM EGRESS WIDTH SHALL COMPLY WITH CBC 1020.3 (CORRIDORS)

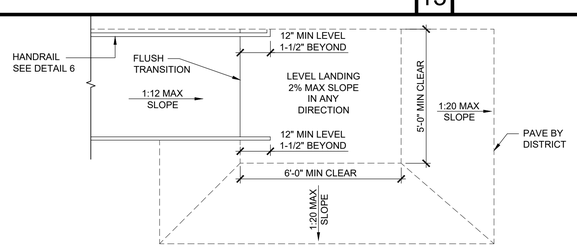
1020.3
THE MIN WIDTH OF CORRIDORS SPECIFIED IN TABLE 1020.3 SHALL BE DETERMINED BY SECTION 1005.3, PER OCCUPANT. HOWEVER FOR GROUP E IF THERE ARE 100 OR MORE OCCUPANTS REQ'D TO EXIT THE RAMP SHALL BE 72" MIN WIDTH. THIS WILL REQUIRE A NEW DESIGN.

RAMP AND LANDING FRAMING PLAN

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

3

12



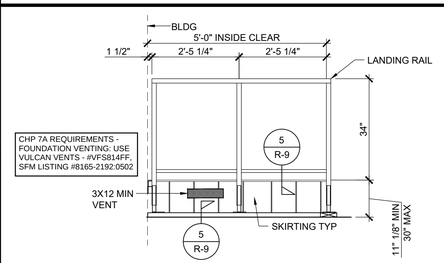
CLEAR LANDING SPACE

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

10

NOTE:
1. 1:20 TRANSITIONS OFF OF LOWER LANDING REQUIRES NO HANDRAILS. TRANSITIONS EXCEEDING 1:20 BUT NOT TO EXCEED 1:12 REQUIRE REMOVAL OF 12" HANDRAIL EXTENSION AND ADDITIONAL HANDRAILING ALSO REQUIRES ADDITIONAL RAMP LENGTH BY DISTRICT. (THIS CONDITION REQUIRES A SITE SPECIFIC DETAIL PROVIDED BY ARCHITECT TO DEMONSTRATE ACCESSIBLE RAMP.)

✱ RAMPS AND LANDINGS TO BE SLOPED SO AS NOT TO RETAIN STANDING WATER,1:48 (2.083%) MAX SLOPE.

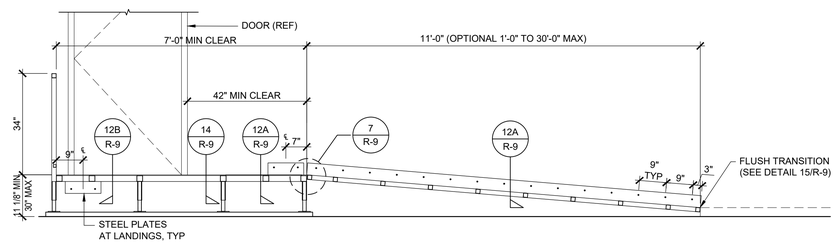


LANDING ELEVATION (REAR)

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

9

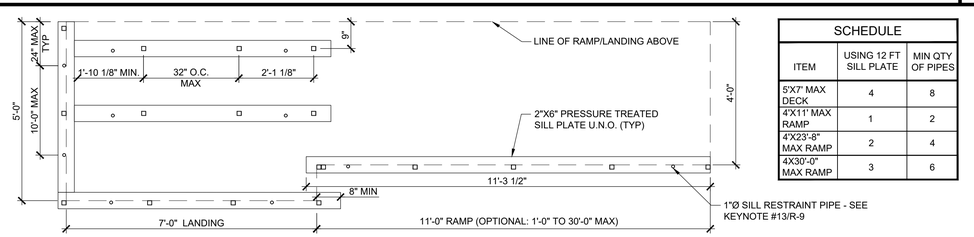
13



SECTION AT RAMP AND LANDING

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

4



SCHEDULE		
ITEM	USING 12 FT SILL PLATE	MIN QTY OF PIPES
5'X7' MAX DECK	4	8
4'X11' MAX RAMP	1	2
4'X23'-8" MAX RAMP	2	4
4'X30'-0" MAX RAMP	3	6

SILL PLAN FOR RAMP AND LANDING

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

5

STATE AGENCY APPROVAL

SKC COMPANY
15345 FAIRFIELD RANCH RD - SUITE 160 CHINO HILLS, CA 91709
OFFICE: (909) 740-3120, FAX: (909) 726-9470
WEBSITE: WWW.SKCCOMPANY.COM
MANUFACTURER #MF1279666 DEALER # DL1279666
GC LIC # 992118 SBE CERTIFIED

ALL DESIGNS INDICATED ON THESE PLANS/DRAWINGS ARE PROPERTY OF SKC, INC AND ARE FOR THE USE BY SKC IN THE SPECIFIED JOB ONLY. THEY SHALL NOT BE USED AND/OR DUPLICATED OR TRANSMITTED IN ANY FORM, FOR ANY PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF SKC, INC. ANY UNAUTHORIZED USE OF THESE PLANS SHALL SUBJECT THE OWNER OF SAID PROPERTY TO LIQUIDATED DAMAGES OF $75,000.00. THESE PLANS ARE PROTECTED UNDER THE PROVISIONS OF THE 1976 COPYRIGHT ACT COPYRIGHT SKC, © ALL RIGHTS RESERVED.

DISTRICT/CUSTOMER NAME:
ANTELOPE UNION HIGH SCHOOL DISTRICT

SCHOOL/SITE NAME:
SOARS HIGH SCHOOL

SHEET TITLE:

STANDARD RAMP & LANDING (ATTACHED HANDRAIL TO BUILDING)

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122029 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/27/2023

PROFESSIONAL OF RECORD ON PC

ORION
ORION STRUCTURAL ENGINEERING, INC.
11305 RANCHO BERNARDO RD SUITE 121
SAN DIEGO, CA. 92127
PHONE (858) 679-1974
RYAN J. ORION
No. S6127
EXP. 12/31/24
STRUCTURAL
STATE OF CALIFORNIA
FIRM: ORION STRUCTURAL ENGINEERING, INC.
ADDRESS: 11305 RANCHO BERNARDO ROAD, SUITE 121
CITY: SAN DIEGO, CA 92127
PHONE: (858) 679-1974

PROJECT SPECIFIC PROFESSIONAL OF RECORD

FIRM:
ADDRESS:
CITY:
PHONE:

REVISIONS

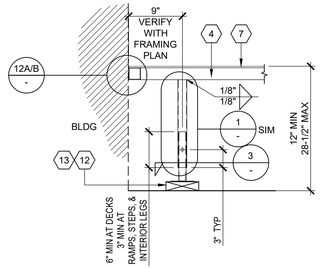
1	-
2	-
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4	-
5	-

PROJECT NO.:	00-0000
DRAFTER:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

R-4

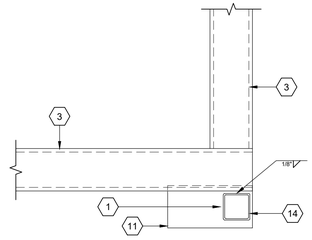
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INTERIOR ADJUSTABLE SUPPORT LEGS

SCALE: 1" = 1'-0"

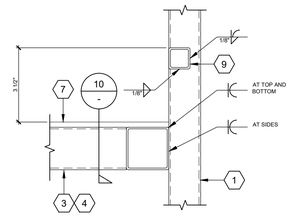
14



RAMP TOE (PLAN VIEW)

SCALE: 6" = 1'-0"

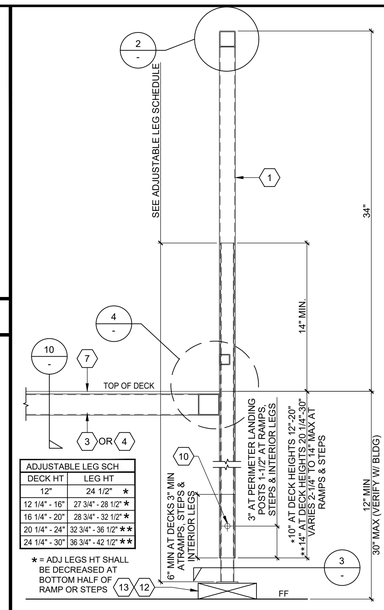
9



VERTICAL TUBE TO LANDING/RAMP

SCALE: 6" = 1'-0"

4



ADJUSTABLE LEG SCH	
DECK HT	LEG HT
12"	24 1/2" ★
12 1/4" - 16"	27 3/4" - 28 1/2" ★
16 1/4" - 20"	28 3/4" - 32 1/2" ★
20 1/4" - 24"	32 3/4" - 36 1/2" ★★
24 1/4" - 30"	36 3/4" - 42 1/2" ★★

★ = ADJ LEGS HT SHALL BE DECREASED AT BOTTOM HALF OF RAMP OR STEPS

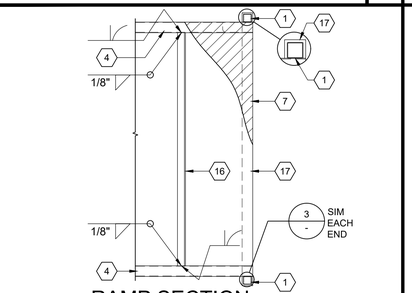
SECTION AT DECK & HANDRAIL

SCALE: 3" = 1'-0"

1

KEY NOTES

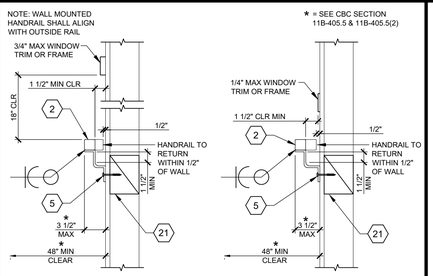
1. VERTICAL RAIL POST TUBE: 1 1/2" X 1 1/2" X 14 GA MIN (T = 0.075") SQUARE TUBE.
2. HANDRAIL TUBE: 1 1/2" X 1 1/2" X 16 GA MIN (T =0.060") SQUARE TUBE
3. STAIR TREAD AND RISER TUBE: 2" X 2" X 14 GA MIN (T = 0.075") SQUARE TUBE
4. LANDING JOIST & PERIMETER TUBE: 2" X 2" X 14 GA MIN (T = 0.075") SQUARE TUBE
5. 10 GA. HANDRAIL MOUNTING BRACKET: 1/4" X 3" LAG SCREW AT WOOD STUD BUILDING OR #14 X 2" TEK SCREW AT METAL STUD BUILDING
6. NOT USED
7. 12 GA METAL DECK (0.105"): NON-SLIP SURFACE MAINTAINABLE FOR 1 YEAR. SEE ACCESS NOTES #5 AND DETAIL #4 ON SHEET R-9.
8. 6" X 12" X 0.135" STEEL PLATE AT LANDINGS. TO SECURE PLATE TO STRUCTURAL FLOOR FRAME, USE (2) #14 X 1-1/2" TEK SCREWS. TO SECURE PLATE TO BUILDING, USE (2) #14 X 2" TEK SCREWS FOR METAL STUD BUILDING OR (2) 1/4" X 3" LAG SCREWS FOR WOOD STUD BUILDING
9. WHEELCHAIR GUIDE RAILS: 1" X 1" X 14 GA MIN (t = 0.075") SQUARE TUBE
10. 3/8"Ø ZINC MACHINE BOLT WITH NUT
11. 2" X 4" 0.135" THICK BASE PLATE. DRILL (2) 5/16" HOLES FOR (2) 1/4"Ø X 1-1/2" GALV LAG SCREWS
12. 2 X HF #2 MIN PRESSURE TREATED SILL PLATE
13. 1"Ø X 14" STANDARD WEIGHT HOT DIPPED GALVANIZED PIPE AT 10'-0" OC MAX. 2'-0"MAX FROM EACH CORNER IN BOTH DIRECTIONS AND A MINIMUM OF TWO PIPES PERDISCONTINUE FOUNDATION STRIP PER DSA IR 16-1 SECTION 3.2.3.5 DRILL SILL PLATE 1 1/2"Ø MAX HOLE PIPE SHOULD PENETRATE INTO SOIL AND/OR PAVING A MIN OF 12" MEASURED VERTICALLY PIPES SHALL BE INSTALLED ON A CONTINUOUS PLATE.
14. ADJUSTABLE LEGS: 1-1/4" X 1-1/4" X 0.105" SQUARE TUBE WELDED TO BASE PLATE
15. 6" X LENGTH OF RAMP X 0.135" CONT PLATE. TO SECURE PLATE TO BUILDING, USE 1/4" X 3" LAG SCREWS. TO SECURE PLATE TO STRUCTURAL FLOOR FRAME, USE #14 X 2" TEK SCREWS. TO SECURE PLATE TO WOOD FOUNDATION, USE 1/4" X 3" LAG SCREWS. ALL FASTENER SPACING SHALL BE AT 9" OC MAX
16. L-1 1/2" X 1-1/2" X 3/16" X WIDTH OF RAMP
17. 2" X 1/8" CONTINUOUS PLATE
18. NOT USED
19. NOT USED
20. NOT USED
21. THIS BLOCKING IS PART OF THE BUILDING. WOOD BLOCKING 4X BLOCKING X STUD DEPTH W/ A34 t&b EA. END, FOR METAL STUD 16GA "C" FLAT BLOCKING W/ (3)-#10SMS TO EA. STUD.
22. 1/2" MINIMUM PLYWOOD SKIRTING OR 5/8" SIDING. FINISH TO MATCH SIDING. ATTACH SIDING TO TUBE STEEL WITH #14 X 1-1/2" FH SCREWS AT 6" OC AND TO 2X NAILER WITH 8D HOT-DIPPED GALVANIZED NAILS AT 6" OC
23. 26 GA MIN "J" FLASHING
24. 3" X 1" X 3'-0" X 10 GA BENT PLATE (0.135")
25. 2X NAILED TO SILL PLATE WITH 16D HOT-DIPPED GALVANIZED NAILS AT 16" OC MAX. ALT: #10 X 3" MIN EXTERIOR WOOD SCREWS



SECTION AT HANDRAIL

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

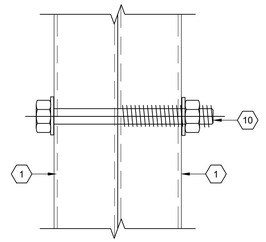
16



HANDRAIL CONNECTION

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

11



VERT TUBE TO VERT TUBE CONN

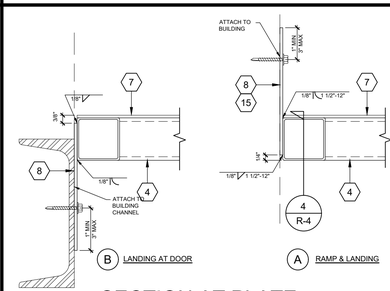
SCALE: 1-1/2" = 1'-0"

6

RAMP SECTION

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

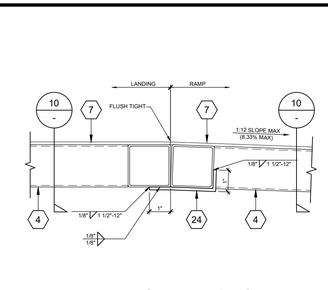
17



SECTION AT PLATE

SCALE: 6" = 1'-0"

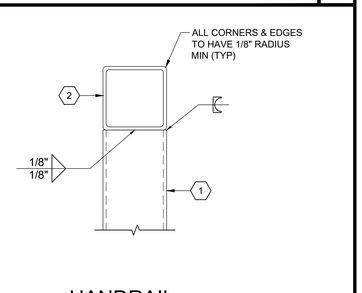
12



RAMP TO LANDING

SCALE: 6" = 1'-0"

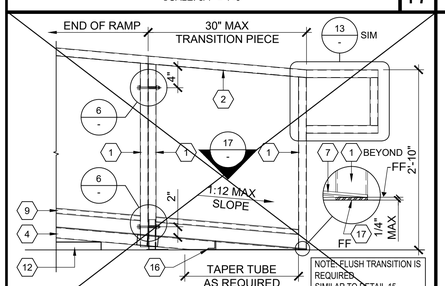
7



HANDRAIL

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

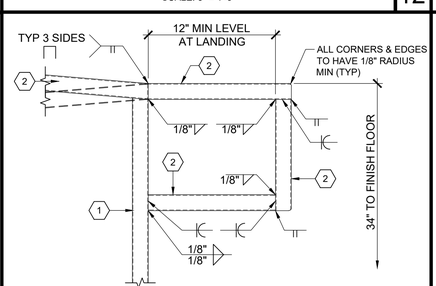
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ZERO TRANSITION RAMP SECTION

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

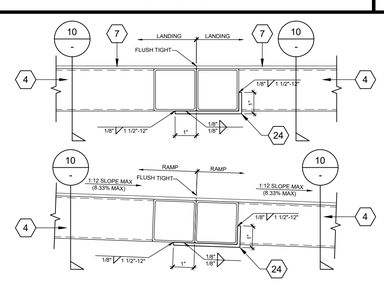
18



HANDRAIL EXTENSION

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

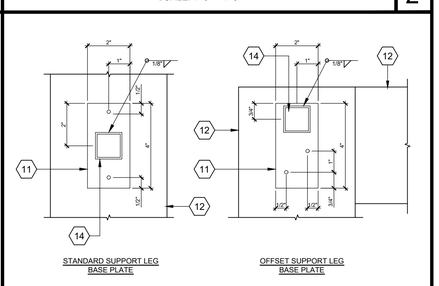
13



RAMP OR LANDING EXTENSION

SCALE: 6" = 1'-0"

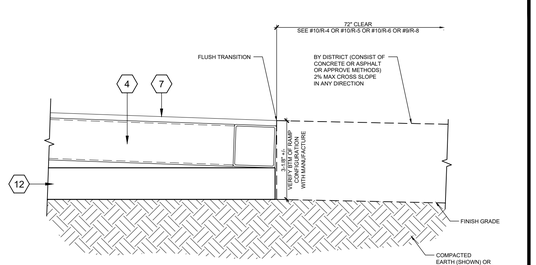
8



BASE PLATE PLAN VIEW

SCALE: 6" = 1'-0"

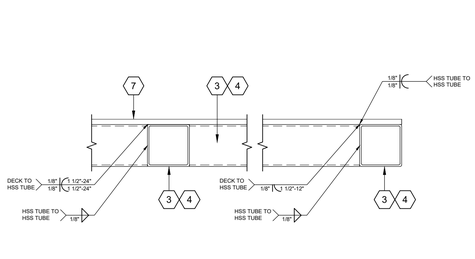
3



FINISH GRADE TRANSITION

SCALE: 6" = 1'-0"

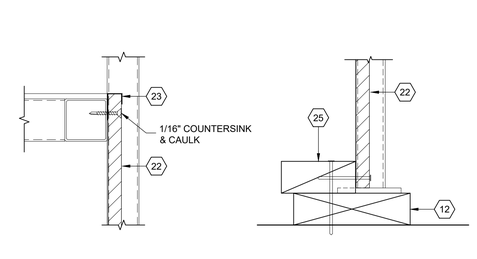
15



DECK TO FRAME

SCALE: 6" = 1'-0"

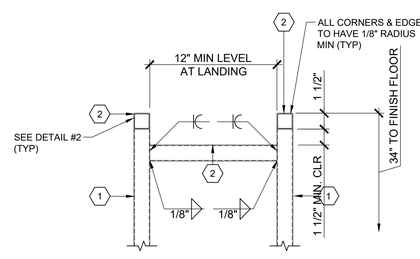
10



SKIRTING INSTALLATION

SCALE: 6" = 1'-0"

5



RAMP AND DECK HANDRAIL

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

19

STATE AGENCY APPROVAL

SKC COMPANY

15345 FAIRFIELD RANCH RD - SUITE 160 CHINO HILLS, CA 91709
OFFICE: (909) 740-3120, FAX: (909) 726-9470
WEBSITE: WWW.SKCCOMPANY.COM

MANUFACTURER #MF1279666 DEALER # DL1279666
GC LIC # 992118 SEE CERTIFIED

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DISTRICT/CUSTOMER NAME:
ANTELOPE UNION HIGH SCHOOL DISTRICT

SCHOOL/SITE NAME:
SOARS HIGH SCHOOL

SHEET TITLE:

RAMP & LANDING DETAILS

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122029 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/27/2023

PROFESSIONAL OF RECORD ON PC

ORION
Structural Engineering, Inc.
11305 RANCHO BERNARDO RD
SUITE 121
SAN DIEGO, CA, 92127
PHONE (858) 679-1974

PROFESSIONAL ENGINEER — BRIAN T. DUNN — EXP. 12/31/24 — STRUCTURAL — STATE OF CALIFORNIA

FIRM: ORION STRUCTURAL ENGINEERING, INC.
ADDRESS: 11305 RANCHO BERNARDO ROAD, SUITE 121
CITY: SAN DIEGO, CA 92127
PHONE: (858) 679-1974

PROJECT SPECIFIC PROFESSIONAL OF RECORD

FIRM:
ADDRESS:
CITY:
PHONE:

REVISIONS

1	-
2	-
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4	-
5	-

PROJECT NO.:	00-0000
DRAFTER:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

R-9

9/26/2023 9:29:37 AM

SCOPE OF WORK

1. THE MANUFACTURER (OR PORTABLE/MODULAR PROVIDER) SHALL PROVIDE ALL LABOR AND MATERIALS PER PLAN UNLESS STATED OTHERWISE IN WRITTEN EXECUTED CONTRACT BETWEEN THE DISTRICT (OR OWNER). REFER TO THE GENERAL SPECIFICATIONS ON SHEET A0.1

2. CHANGES TO PLAN OR SCOPE OF WORK - NO ADDITIONAL WORK OR RE-WORK SHALL BE COMMENCED BY THE MANUFACTURER UNLESS STATED OTHERWISE IN WRITTEN EXECUTED CONTRACT BETWEEN THE DISTRICT (OR OWNER). HERE-SAY, TEXT MESSAGES, EMAILS AND SOCIAL MEDIA ARE NOT CONSIDERED WORK AUTHORIZATION. REFER TO THE GENERAL SPECIFICATION SHEET ON SHEET A0.1 FOR ADDITIONAL INFORMATION

3. THE DESIGN AND SCOPE OF WORK OF THE INCOMING SITE INSTRASTRUCTURE TO THE PORTABLE/MODULAR BUILDING SUCH AS POWER, WASTE, WATER, COMMUNICATION, AND FIRE ALARM ARE BY DISTRICT (OWNER). REFER TO THE GENERAL SPECIFICATION SHEET ON SHEET A0.1 FOR ADDITIONAL INFOMRATION REGARDING WORK NOT INCLUDED

OPERATIONS & MAINTENANCE

BUILDING MANUFACTURER SHALL LEAVE FOR THE BUILDING OWNER AT OCCUPANCY OPERATING INFORMATION FOR ALL APPLICABLE MECHANICAL AND ELECTRICAL FEATURES, MATERIALS, COMPONENTS AND DEVICES INSTALLED IN THE BUILDING RELATED TO EFFICIENT ENERGY USE. IN ADDITION, THE BUILDING MANUFACTURER SHALL LEAVE MAINTENANCE INFORMATION FOR ALL FEATURES, MATERIALS, COMPONENTS, AND MANUFACTURED DEVICES THAT REQUIRE ROUTINE MAINTENANCE FOR EFFICIENT OPERATION OF MECHANICAL EQUIPMENT AND LIGHTING SYSTEM

NOTES

A DSA CERTIFIED PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER), AND APPROVED BY THE THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-333 AND 4-342, PART 1, TITLE 24, CCR. CLASS R.B.I.P. FOR IN-PLANT INSPECTIONS.

SITE SPECIFIC:
COMPLY WITH CFC CHAPTERS 5 & 7, CBC CHAPTERS 3, 5, 7,11B & 14

NOTE: "THIS PC IS NOT APPROVED FOR CHAPTER 7A WILDLAND URBAN AREAS". THIS REVIEW IS PART OF THE SITE SPECIFIC PROJECT. THE APPROVAL OF THE PC DOES NOT INCLUDE THE SITE.

CAL GREEN NOTES

OPTION 'E' OF THIS PC WILL NOT BE PLACED IN ANY OF THE FOLLOWING LOCATIONS. ALL OTHER OPTIONS ARE EXEMPT FROM EXCEPTION ON SECTION 5.507.4:

1. WITHIN THE 65 CNEL NOISE CONTOUR OF AN AIRPORT

2. WITHIN THE 65 CNEL OR LDN NOISE CONTOUR OF A FREEWAY, EXPRESSWAY, RAILROAD OR INDUSTRIAL SOURCE GUIDE WAY

3. WHERE EXPOSED TO NOISE LEVEL OF 65 DB LEQ-1-HR DURING ANY HOUR OF OPERATIONS

BUILDING CODES AND STANDARDS

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24, CCR
2022 CALIFORNIA BUILDING CODE (CBC) VOLUMES 1 & 2, PART 2, TITLE 24, CCR
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24, CCR
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, CCR
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, CCR)
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24, CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, CCR
2022 CALIFORNIA EXISTING BUILDING STANDARDS CODE (CEBC), PART 10, TITLE 24
2022 CALIFORNIA GREEN BUILDING STANDARD CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHALL REGULATIONS

APPLICABLE STANDARDS

FOR A LIST OF APPLICABLE STANDARDS, INCLUDING CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS, REFER TO 2022 CBC CHAPTER 35 AND CFC CHAPTER 80.

FIRE LIFE SAFETY

ALLOWABLE USES: THIS PC (OR BLDG) IS NOT APPROVED FOR 'A' OCCUPANCY

AUTOMATIC FIRE SPRINKLER SYSTEM: ☒ NOT REQUIRED / REQUIRED ☐

(WHEN APPLICABLE) AUTOMATIC FIRE SPRINKLER SYSTEMS ARE PERMITTED TO BE HYDRAULICALLY CALCULATED, PER NFPA 13, TO MEET THE WATER SUPPLY AVAILABLE AT EACH SITE. PLANS FOR SUCH SYSTEMS MAY BE SUBMITTED AS A PLAN REVIEW SUBMITTAL, AND MAY NOT BE REVIEWED UTILIZING THE "OVER THE COUNTER" PROCESS. A COMPLETE AUTOMATIC FIRE SPRINKLER SYSTEM SUBMITTAL PACKAGE MUST BE PROVIDED AT THE TIME OF THE PLAN REVIEW SUBMITTAL.

THE ARCHITECT OF RECORD (DESIGNER) OR THE DIVISION OF THE STATE ARCHITECT WILL DETERMINE THE USE OF A FIRE SUPPRESSION SYSTEM UNLESS REQUIRED OTHERWISE BY THE TYPE OF CONSTRUCTION LISTED ON THE BUILDING DATA.

ALL GROUP 'B' OCCUPANCY ARE NOT REQUIRED TO BE FIRE SPRINKLED UNO REQUIRED BY SITE ANALYSIS

EXTERIOR PROJECTIONS ARE TO BE FIRE PROTECTED UNLESS PROJECTIONS COMPLY WITH CBC SECTION 705.2

MIN SETBACK FROM ASSUMED LOT LINE = 10'-0". LESS THAN 10'-0" SEE CBC TABLE 705.5

EXTERIOR WALL OPENINGS TO COMPLY WITH TABLE 705.8

ENERGY

1. UNCONDITIONED BUILDINGS - THIS PC CAN FRAMED WITH EXTERIOR WOOD STUD OR METAL STUD FRAMING

2. ACCEPTANCE TEST SHALL BE COMPLETED ON NEWLY INSTALLED OR REPLACEMENT OF LIGHTING CONTROLS, MECHANICAL SYSTEMS, FENESTRATION, AND PROCESS EQUIPMENT BEFORE PROJECT COMPLETION PER THE CALIFORNIA ENERGY CODE SECTION 10-103. ACCEPTANCE TEST MUST BE PERFORMED BY A CERTIFIED ACCEPTANCE TEST TECHNICIAN (ATT). THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES CORRECTED UNTIL THE INSTALLATION OF THE SPECIFIED SYSTEMS CONFORMS AND PASS THE REQUIRED ACCEPTANCE CRITERIA. COMPLETED NRCA FORMS SHALL BE SUBMITTED TO THE PROJECT INSPECTOR AND DISTRICT

NEXTMOD
6361 BOX SPRINGS ROAD, RIVERSIDE, CA 92570
OFFICE: (909) 740-3120, FAX: (909) 726-9470
WEBSITE: WWW.NEXTMODINC.COM

2022 CBC
MANUFACTURED MODULAR BUILDING
RISK CATEGORY II
12'X40' RESTROOM MODEL 'D' BASED OFF PC 04-122273
SERIAL NUMBER: 26-~~231~~-A 238

DRAWING SYMBOLS & LEGEND

- ✱ 2"x4" WOOD STUD OR 3.5" STEEL STUD
- ✱ 2"x6" WOOD STUD OR 5.5" STEEL STUD
- ✱ 2"x8" WOOD STUD OR 7.5" STEEL STUD
- 1 HR RATED (DARK LINE THROUGH SYMBOL)
- ✱ STC 40 REQUIRED WHEN USED FOR INTERIOR WALLS SEPARATING TENANTS OR PUBLIC SPACES (OPTION 'E' ONLY). SEE INTERIOR WALL SCHEDULE ON SHEET A0.2
- INDICATES DOOR TYPE
- INDICATES WINDOW TYPE
- KEY NOTE SYMBOL
- INDICATES INTERIOR ELEVATION ORIENTATION (1 / 2 / 3 / 4)
- INDICATES DETAIL #
- INDICATES SHEET #
- INDICATES DETAIL #
- INDICATES SHEET #
- INDICATES EXTERIOR ELEVATION #
- INDICATES SHEET #
- 5'-0" CLEAR FLOOR SPACE FOR WHEELCHAIR ACCESSIBLE MANEUVERING WITH 12" MIN. ENCROACHMENT
- 48"x30" CLEAR FLOOR SPACE FOR WHEELCHAIR ACCESS TO FIXTURE
- INDICATES ROOM NAME
- INDICATES ROOM NUMBER
- 60"x60" CLEAR FLOOR SPACE FOR WHEELCHAIR ENTRY ACCESS.
- WHEELCHAIR ACCESSIBLE CLEAR FLOOR SPACE AT ACCESSIBLE WATER CLOSET
- 60"x59" AT FLOOR MOUNTED WATER CLOSET
  60"x56" AT WALL MOUNTED WATER CLOSET
- GRID LINE NUMBER OR LETTER
- INDICATES CUT SECTION DETAIL#
- INDICATES SHEET #

DRAWING INDEX

NOTE: "N" DESIGNATE PROJECT SPECIFIC SHEET

SHEET NO.	ARCHITECTURAL
A0.0N	TITLE SHEET
A0.0	TITLE SHEET
A0.1	SPECIFICATIONS AND NOTES
A0.2	CONSTRUCTION MATERIALS AND SPECIFICATIONS & OPTIONS CHECK BOXES
A0.3	FINISH, DOOR & WINDOW SCHEDULES
A0.4	SIGNAGE SPECIFICATIONS AND ACCESSIBILITY
A0.6	CALGREEN REQUIREMENTS
A0.8a	SAMPLE DSA 103 FORM WOOD FOUNDATION OR BUILDING STOCKPILE PROJECT
A0.9a	CAL GREEN MANDATORY MEASURES
A0.9b	CAL GREEN MANDATORY MEASURES
A0.9c	CAL GREEN MANDATORY MEASURES
A0.11	CONSTRUCTION WASTE MANAGEMENT FORMS
A1.D1	FLOOR PLAN OPTIONS "D", "D-1", & "D-1.1" ADULT - AGES 13 & ABOVE
A2.0a	REFLECTED CEILING DETAILS
A2.0b	REFLECTED CEILING DSA NOTES
A2.D	REFLECTED CEILING PLAN ALL OPTION "D"
A2.DN	REFLECTED CEILING PLAN
A3.5	ROOF DETAILS-TPO
A3.6	ROOF PLAN MONO & DUAL SLOPE-TPO
A4.D1	INTERIOR ELEVATIONS OPTIONS "D", "D-1", & "D-1.1" ADULT - AGES 13 & ABOVE
A5.D	EXTERIOR ELEVATIONS ALL OPTIONS "D" - WOOD SIDING
A5.DN	EXTERIOR ELEVATIONS
A8.0	ARCHITECTURAL DETAILS WOOD STUD OPTION
A8.0N	ARCHITECTURAL DETAILS WOOD STUD OPTION
A8.1	ARCHITECTURAL DETAILS
A8.2	SHEET METAL AND FLASHING DETAILS
A8.2N	SHEET METAL AND FLASHING DETAILS
A10.0	RESTROOM ACCESSORIES SCHEDULE AND DETAILS
A11.D1	RESTROOM ACCESSORIES PLAN "D", "D-1", & "D-1.1" ADULT - AGES 13 & ABOVE
A14.0	ARCHITECTURAL BUILDING SECTIONS DUAL SLOPE
A30.0	AWNING DETAILS
A30.0N	AWNING DETAILS

SHEET NO.	STRUCTURAL
S0.0a	STRUCTURAL NOTES AND SPECIFICATIONS
S0.0b	STRUCTURAL NOTES AND SPECIFICATIONS
S0.1	STRUCTURAL BUILDING SECTIONS -CONCRETE FLOOR
S0.3	TYPICAL STRUCTURAL DETAILS
S1.0	FLOOR FRAMING DETAILS - PLYWOOD & CONCRETE
S1.1	FLOOR FRAMING PLAN - PLYWOOD
S2.0	ROOF FRAMING DETAILS
S2.2	ROOF FRAMING PLAN - PLYWOOD SHEATHING DIAPHRAGM
S3.0	WALL FRAMING DETAILS - WOOD STUD
S3.2	SHEAR WALL FRAMING ELEVATIONS
S3.3	SHEAR WALL PLANS
S4.0	ALLOWABLE BEAM AND HEADER PENETRATION

	MECHANICAL
M0.0	MECHANICAL SCHEDULES AND NOTES
M1.1	MECHANICAL PLANS ALL OPTIONS
M1.2	MECHANICAL ROOF PLAN ALL OPTIONS

	ELECTRICAL
E0.0	ELECTRICAL LEGENDS & DETAILS
E1.D	ELECTRICAL PLAN ALL OPTION "D"
E6.0	LIGHTING CONTROLS - MODEL "A & A-1", "B & B-1", "C & C-1", "D & D-1"
E7.6	MODEL "D" LIGHTING FORMS
E7.7	MODEL "D" LIGHTING FORMS

	PLUMBING
P0.0	PLUMBING SCHEDULE AND DETAILS
P1.D1	PLUMBING PLAN OPTION "D", "D-1", & "D-1.1" ADULT - AGES 13 & ABOVE

FOUNDATION

FOUNDATION (NOT PART OF THIS STOCKPILE)
RELOCATING THIS STOCKPILE TO A SPECIFIC SITE WILL REQUIRE FOUNDATION PLANS AND DETAILS TO BE REVIEWED AND APPROVED UNDER A SEPARATE DSA APPLICATION. FOUNDATION SHALL BE PER CURRENT CODE EDITION OR SITE SPECIFIC PER DSA IR 16-1, SECTION 5.1.3

RAMP, LANDING AND STAIR (NOT PART OF THIS PC)

TOTAL SHEET COUNT: 54

DESIGN PARAMETERS

FLOOR LIVE LOAD: 100 PSF

ROOF LIVE LOAD: 20 PSF
GROUND SNOW LOAD MAXIMUM: 31 PFS FULLY EXPOSED, 28 PARTIALLY EXPOSED, 26 PSF SHELTERED

ROOF SNOW LOAD: 20 PSF MAX (ASCE 7-16 SEC 7.4)
Ce = 0.9 FULLY EXPOSED, 1.0 PARTIALLY EXPOSED, 1.1 SHELTERED
I = 1.0, Ct = 1.0
FOR SNOW DRIFT, THE SITE APPLICATION DSA REVIEWER SHALL VERIFY THAT THE STRUCTURE IS TO BE LOCATED AT LEAST 20 FT FROM ANY ADJACENT STRUCTURE UNLESS A DRIFT ANALYSIS IS PROVIDED (NOT ACCEPTED AT AN OTC REVIEW)

FLOOD HAZARD AREA: NO

WIND DESIGN: (ASCE 7-16)
Kzt = 1.0
WIND SPEED = 130MPH, RISK CATEGORY = II , EXPOSURE = C
INTERNAL PRESSURE COEFFICIENT = ±0.18
COMPONENTS & CLADDING DESIGN BY PC ENGINEER OF RECORD

DESIGN ROOF DEAD LOAD: 18 PSF (BEAMS AND TRUSSES) INCLUDES 2.2 PSF FOR ROOF MOUNTED SOLAR PANELS

DESIGN FLOOR DEAD LOAD:
PLYWOOD FLOOR - 8 PSF

EARTHQUAKE DESIGN DATA:
1. I = 1.0, RISK CATEGORY = II
2. SS = 3.4286 (MAX MAPPED VALUE)
   S1 = 1.389 (MAX MAPPED VALUE)
3. SITE CLASS = C OR D DEFAULT
4. SDS = 2.743, SD1 = 2.35
5. FA = 1.2, FV = 1.4
6. SEISMIC DESIGN CATEGORY = E
7. BASIC "SEISMIC" FORCE RESISTING SYSTEM - LIGHT FRAME WALLS SHEATHED WITH WOOD STRUCTURAL PANELS
8. DESIGN BASE SHEAR = 14032# (PLYWOOD FLOORS), 18700# (CONCRETE FLOORS)
9. CS = 0.422
10. R = 6.5
11. EQUIVALENT LATERAL FORCE PROCEDURE
12. NO VERTICAL OR HORIZONTAL IRREGULARITIES
13. RHO = 1.0

GEOHAZARD REPORTS: THE DESIGN ARCHITECT IN GENERAL RESPONSIBLE CHARGE MUST VERIFY THAT THE GEOHAZARD REPORT IDENTIFIES NO SITE RELATED GEOLOGIC HAZARDS WHICH WOULD PRECLUDE THE USE OF THE PROPOSED PC DESIGN AT THE SITE, INCLUDING BUT NOT LIMITED TO LIQUIFACTION POTENTIAL, LANDSLIDE, FLOODING, EARTHQUAKE FAULT, ETC

NOTES:
1. SITE CLASS A, B, C, AND D TO BE SUBSTANTIATED BY GEOTECHNICAL REPORT, SITE CLASS D- DEFAULT TO BE USED IN ABSENCE OF GEOTECHNICAL REPORT.

2. UNLESS A SITE SPECIFIC GROUND MOTION HAZARD ANALYSIS IS PERFORMED, THE SM1, VALUE INCREASED BY 50% SHALL BE LESS THAN THE DESIGN CRITERIA STATED HEREIN.

SEISMIC DESIGN FOR SITE SPECIFIC PROJECTS

SELECT ONE

☒ DESIGN BASED ON SITE CLASS D DEFAULT
NO GEOTECHNICAL INVESTIGATION REQUIRED
Ss = 1.502 Fa = 1.2

☐ DESIGN BASED ON SITE CLASS DETERMINED PER CHAPTER 20 OF ASCE 7-16
NO GEOTECHNICAL INVESTIGATION REQUIRED
SITE CLASS: ☐ C ☐ D ☐ E
Ss = _____ Fa = _____ PER ASCE 7-16 SUPPL 3 TABLE 11.4-1

☐ DESIGN BASED ON SITE CLASS GROUND MOTION HAZARD ANALYSIS PER CHAPTER 21 OF ASCE 7-16
SHORT-PERIOD DESIGN SPECTRAL RESPONSE PARAMETER, SDS, SHALL BE AS SPECIFIED IN GEOTECHNICAL INVESTIGATION
CGS APPROVAL REQUIRED
NOT ELIGIBLE FOR OTC REVIEW
SITE CLASS: ☐ C ☐ D ☐ E
Ss = _____ Fa = __ ____

SDS = 2/3 Fa Ss= 1.200 ≤ 2.74

Cs = 0.422 USED IN DESIGN
SEISMIC DESIGN CATEGORY: ☐ D ☒ E
ASCE 7-16 12.8.1.3 HAS NOT BEEN USED IN CALCULATION OF Sds

BUILDING DATA

TYPE OF CONSTRUCTION: V-B
BUILDING AREA: 12'x40' = 480 SF
OCCUPANCY: B
ALLOWABLE AREA: 9,000 SF
NO. OF STORIES: 1
MODULES: 12'x40'

STRUCTURAL DATA

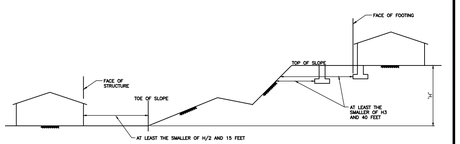
STRUCTURAL DESIGN: SHEAR WALL
FOUNDATION: (NOT PART OF THIS APPLICATION)

SEISMIC SEPARATION: 4 1/2" MIN FROM OTHER EXISTING OR FUTURE BUILDINGS MEASURED FROM ITS FARTHEST PROJECTION

THIS PC (OR BLDG) IS DESIGNED STRUCTURALLY TO SUPPORT THE WEIGHT OF A FIRE SPRINKLER SYSTEM

ALLOWABLE SOIL BEARING: (NOT PART OF THIS APPLICATION)

MIN SET BACK FROM SLOPE



STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-125511 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/13/2026

NEXTMOD
6361 BOX SPRINGS ROAD, RIVERSIDE, CA 92570
OFFICE: (909) 740-3120, FAX: (909) 726-9470
WEBSITE: WWW.NEXTMODINC.COM

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DISTRICT/CUSTOMER NAME:
NEXTMOD

SCHOOL/SITE NAME:
STOCKPILE

SHEET TITLE:

TITLE SHEET

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

PROFESSIONAL OF RECORD ON PC

FIRM: ORION STRUCTURAL ENGINEERING, INC.
ADDRESS: 11305 RANCHO BERNARDO ROAD, SUITE 121
CITY: SAN DIEGO, CA 92127
PHONE: (858) 679-1974

PROJECT SPECIFIC PROFESSIONAL OF RECORD

ORION
Structural Engineering, Inc.
11305 RANCHO BERNARDO RD
SUITE 121
SAN DIEGO CA. 92127
PHONE (858) 679-1974

RYAN J. ORION
No. S-6827
EXP 12/31/26
STRUCTURAL
STATE OF CALIFORNIA

FIRM: Orion Structural Engineering, Inc.
ADDRESS: 11305 Rancho Bernardo Road Ste 121
CITY: San Diego, CA
PHONE: 858-679-1974

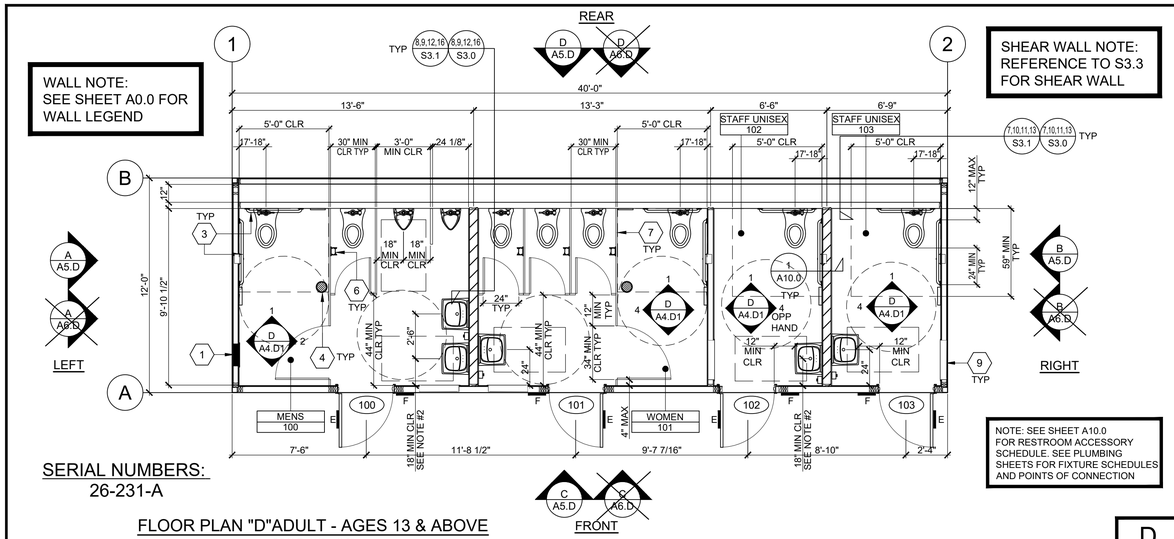
REVISIONS

1	-
2	-
3	-
4	-
5	-

PROJECT NO.:	00-0000
DRAFTER:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

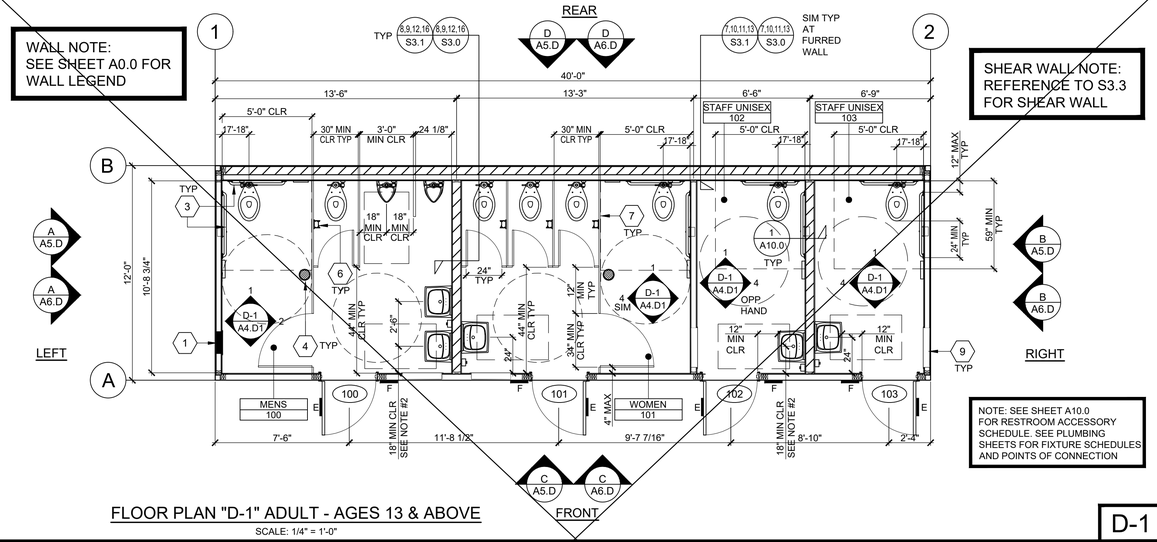
A0.0N



FLOOR PLAN "D"ADULT - AGES 13 & ABOVE

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

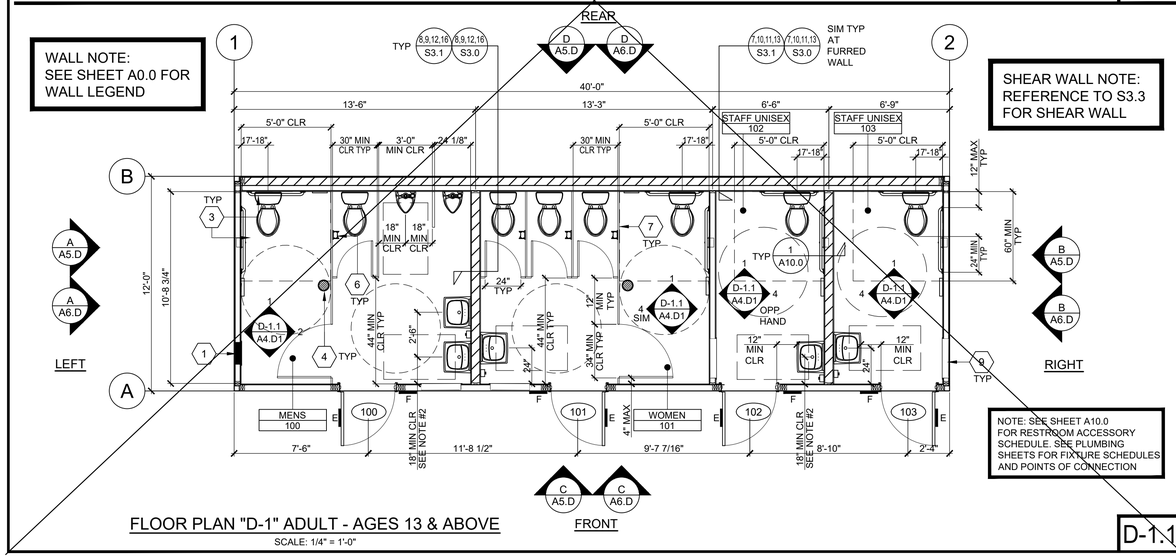
D



FLOOR PLAN "D-1" ADULT - AGES 13 & ABOVE

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

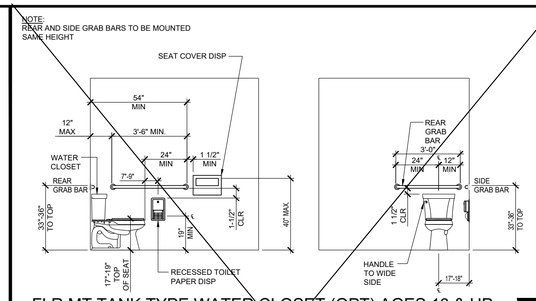
D-1



FLOOR PLAN "D-1" ADULT - AGES 13 & ABOVE

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

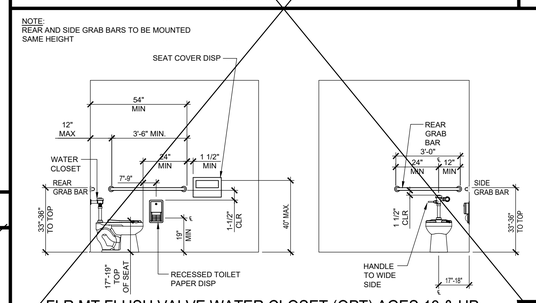
D-1.1



FLR MT TANK TYPE WATER CLOSET (OPT) AGES 13 & UP

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

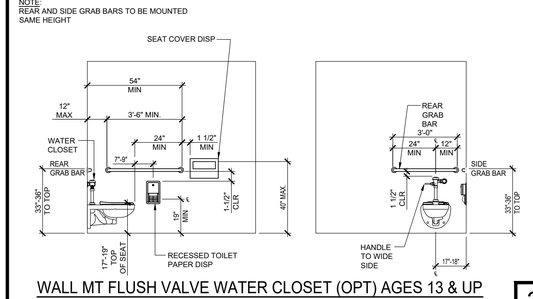
1



FLR MT FLUSH VALVE WATER CLOSET (OPT) AGES 13 & UP

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

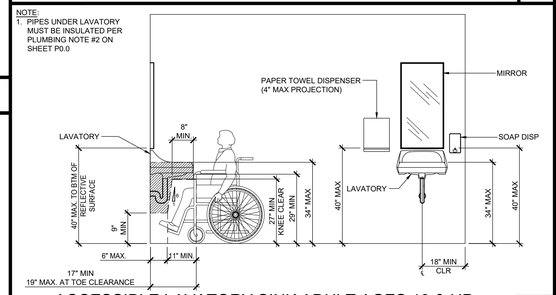
2



WALL MT FLUSH VALVE WATER CLOSET (OPT) AGES 13 & UP

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

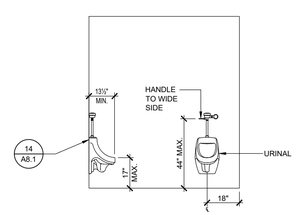
3



ACCESSIBLE LAVATORY SINK ADULT AGES 13 & UP

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

4



WALL MT URINAL (OPT) ALL AGES

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

5

KEY NOTES

1. ELECTRICAL PANEL (SEE #4 OR #10/A8.1 AND ELECTRICAL SHEETS)
2. MIRROR (SEE SHEET A10.0)
3. GRAB BARS (SEE SHEET A10.0)
4. FLOOR DRAIN, 2% MAX SLOPE TO DRAIN OPENINGS IN THE FLOOR DRAIN SHALL BE LESS THAN 1/4" (SEE PLUMBING SHEETS)
5. RAMP AND LANDING ARE NOT PART OF THIS PC APPLICATION. RAMP AND LANDING PLAN (OR PC) MUST MEET MINIMUM DIMENSIONS SET FORTH ON ILLUSTRATION BELOW
6. TOILET PAPER DISPENSER (SEE SHEET A10.0)
7. 1" THICK TOILET PARTITIONS PROVIDE ADDITIONAL FULL HEIGHT STUD FOR SUPPORT
8. ADJUST DOORS TO 90° INHIBITOR
9. COMBINATION RECESSED PAPER TOWEL & WASTE DISPENSER (SEE SHEET A10.0)

GENERAL NOTES

1. SIGNAGE REQUIRED PER APPLICABLE CODES LISTED ON COVER SHEET PROVIDED AND INSTALLED BY DISTRICT ON SITE, SEE ACCESS SHEET
2. USE 18" MIN CLR WHEN THERE ARE NO ADJACENT ACCESSORIES TO THE LAVATORY OR ACCESSORIES MUST BE LESS THAN 3" PROJECTION SO IT DOES NOT ENCROACH INTO REQUIRED CLEAR SPACE
   USE 19" MIN CLR FOR ACCESSORIES UP TO 4" MAX PROJECTION SO IT DOES NOT ENCROACH INTO REQUIRED CLEAR SPACE
3. NOT USED
4. ALL DIMENSION ON THIS FLOOR PLAN ARE TO THE FACE OF FINISH UNO
5. TOILET STALLS FOR DISABLED PERSONS SHALL HAVE SLIDE BOLTS DOOR LATCH, U-SHAPE OR WIRE PULLS BOTH SIDES OF THE DOOR (IMMEDIATELY BELOW THE LATCH) AND SELF-CLOSING HINGES DOOR HARDWARE SHALL BE MOUNTED AT 34" TO 44" ABOVE FINISHED FLOOR
6. DOORS AT FRONT ENTRY STALLS SHALL HAVE 32" MINIMUM CLEAR WIDTH WHEN THE DOOR IS OPEN 90°
7. DOORS AT SIDE ENTRY SHALL HAVE 34' MINIMUM CLEAR WIDTH WHEN THE DOOR IS OPEN 90°
8. TOILET ACCESSORIES REQUIRED TO BE ACCESSIBLE SHALL BE MOUNTED AT HEIGHTS ACCORDING TO CBC SECTION 11B-603.5
9. THE GRAB BAR CAN NOT PROJECT MORE THAN 3" INTO THE 48" MINIMUM CLEAR SPACE IN FRONT OF THE WATER CLOSET 11B-604.5
10. CONSIDER THE TOILET PAPER AND FEMININE NAPKIN DISPENSERS LOCATED ON THE GRAB BAR SIDE OF AN ACCESSIBLE TOILET ROOM OR STALL SHOULD NOT PROJECT MORE THAN THE GRAB BAR. THE ACCESSORY SHALL NOT BE LOCATED CLOSER THAN 1-1/2" CLEAR OF THE TANGENT POINT OF THE GRAB BAR ACCESSORIES SURFACE MOUNTED ABOVE GRAB BAR WILL RESTRICT USABILITY
11. ACCESSIBLE PLUMBING FIXTURES SHALL COMPLY WITH ALL OF THE REQUIREMENTS OF CBC SECTION 11B-603, 11B-604 & 11B-605
12. FIXTURE CONTROLS SHALL COMPLY WITH CBC SECTION 11B-309

SIGNAGE LEGEND

A. =ID SIGN - #1G/A0.4

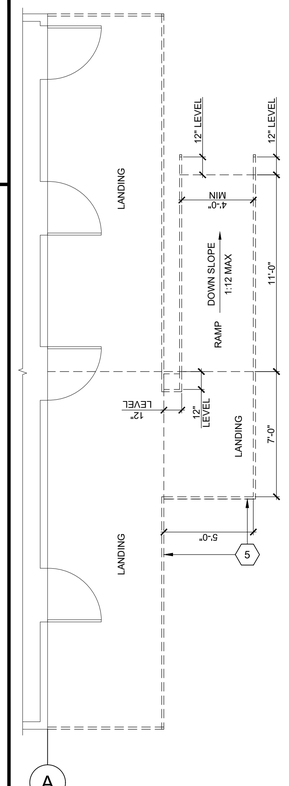
B. =EXIT TACTILE SIGN - #1C/A0.4

C. =ID SIGN WITH ISA IDENTIFICATION - #1H,G/A0.4

D. =EXIT RAMP DOWN SIGN - #1E/A0.4

E. =RESTROOM DOOR SIGN - #6 & 7/A0.4

F. =RESTROOM WALL SIGN - #5 & 7/A0.4



RAMP PLAN OPTION

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

STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-125511 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/13/2026

SKC COMPANY
15345 FAIRFIELD RANCH RD - SUITE 160 CHINO HILLS, CA 91709
OFFICE: (909) 740-3120, FAX: (909) 726-9470
WEBSITE: WWW.SKCCOMPANY.COM
MANUFACTURER #MF127666 DEALER # DL1279666
GC LIC # 992118 SBE CERTIFIED

ALL DESIGNS INDICATED ON THESE PLANS/DRAWINGS ARE PROPERTY OF SKC, INC AND ARE FOR THE USE BY SKC IN THE SPECIFIED JOB ONLY. THEY SHALL NOT BE USED AND/OR DUPLICATED OR TRANSMITTED IN ANY FORM, FOR ANY PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF SKC, INC. ANY UNAUTHORIZED USE OF THESE PLANS SHALL SUBJECT THE OWNER OF SAID PROPERTY TO LIQUIDATED DAMAGES OF $75,000.00. THESE PLANS ARE PROTECTED UNDER THE PROVISIONS OF THE 1976 COPYRIGHT ACT COPYRIGHT SKC, © ALL RIGHTS RESERVED.

DISTRICT/CUSTOMER NAME:
NEXTMOD

SCHOOL/SITE NAME:
STOCKPILE

SHEET TITLE:
FLOOR PLAN OPTIONS
"D", "D-1", & "D-1.1"
ADULT - AGES 13 & ABOVE

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122273 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 10/05/2023

PROFESSIONAL OF RECORD ON PC

ORION
Structural Engineering, Inc.
11305 RANCHO BERNARDO RD SUITE 121
SAN DIEGO CA, 92127
PHONE (858) 679-1974

REGISTERED PROFESSIONAL ENGINEER — RYAN J. ORION — No. C087437 — EXP. 12/31/24 — STRUCTURAL — STATE OF CALIFORNIA

FIRM: ORION STRUCTURAL ENGINEERING, INC.
ADDRESS: 11305 RANCHO BERNARDO ROAD, SUITE 121
CITY: SAN DIEGO, CA 92127
PHONE: (858) 679-1974

PROJECT SPECIFIC PROFESSIONAL OF RECORD

FIRM:
ADDRESS:
CITY:
PHONE:

REVISIONS

1	-
2	-
3	-
4	-
5	-

PROJECT NO.:	00-0000
DRAFTER:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

A1.D1

10/2/2023 9:32:08 AM

SCOPE OF WORK

1. THE MANUFACTURER (OR PORTABLE/MODULAR PROVIDER) SHALL PROVIDE ALL LABOR AND MATERIALS PER PLAN UNLESS STATED OTHERWISE IN WRITTEN EXECUTED CONTRACT BETWEEN THE DISTRICT (OR OWNER). REFER TO THE GENERAL SPECIFICATIONS ON SHEET A0.1
2. CHANGES TO PLAN OR SCOPE OF WORK - NO ADDITIONAL WORK OR RE-WORK SHALL BE COMMENCED BY THE MANUFACTURER UNLESS STATED OTHERWISE IN WRITTEN EXECUTED CONTRACT BETWEEN THE DISTRICT (OR OWNER). HERE-SAY, TEXT MESSAGES, EMAILS AND SOCIAL MEDIA ARE NOT CONSIDERED WORK AUTHORIZATION. REFER TO THE GENERAL SPECIFICATION SHEET ON SHEET A0.1 FOR ADDITIONAL INFORMATION
3. THE DESIGN AND SCOPE OF WORK OF THE INCOMING SITE INSTRASTRUCTURE TO THE PORTABLE/MODULAR BUILDING SUCH AS POWER, WASTE, WATER, COMMUNICATION, AND FIRE ALARM ARE BY DISTRICT (OWNER). REFER TO THE GENERAL SPECIFICATION SHEET ON SHEET A0.1 FOR ADDITIONAL INFOMRATION REGARDING WORK NOT INCLUDED

OPERATIONS & MAINTENANCE

BUILDING MANUFACTURER SHALL LEAVE FOR THE BUILDING OWNER AT OCCUPANCY OPERATING INFORMATION FOR ALL APPLICABLE MECHANICAL AND ELECTRICAL FEATURES, MATERIALS, COMPONENTS AND DEVICES INSTALLED IN THE BUILDING RELATED TO EFFICIENT ENERGY USE. IN ADDITION, THE BUILDING MANUFACTURER SHALL LEAVE MAINTENANCE INFORMATION FOR ALL FEATURES, MATERIALS, COMPONENTS, AND MANUFACTURED DEVICES THAT REQUIRE ROUTINE MAINTENANCE FOR EFFICIENT OPERATION OF MECHANICAL EQUIPMENT AND LIGHTING SYSTEM

NOTES

A DSA CERTIFIED PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER), AND APPROVED BY THE THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-333 AND 4-342, PART 1, TITLE 24, CCR. CLASS R.B.I.P. FOR IN-PLANT INSPECTIONS.

SITE SPECIFIC:
COMPLY WITH CFC CHAPTERS 5 & 7, CBC CHAPTERS 3, 5, 7,11B & 14

NOTE: "THIS PC IS NOT APPROVED FOR CHAPTER 7A WILDLAND URBAN AREAS". THIS REVIEW IS PART OF THE SITE SPECIFIC PROJECT. THE APPROVAL OF THE PC DOES NOT INCLUDE THE SITE.

CAL GREEN NOTES

OPTION 'E' OF THIS PC WILL NOT BE PLACED IN ANY OF THE FOLLOWING LOCATIONS. ALL OTHER OPTIONS ARE EXEMPT FROM EXCEPTION ON SECTION 5.507.4:

1. WITHIN THE 65 CNEL NOISE CONTOUR OF AN AIRPORT
2. WITHIN THE 65 CNEL OR LDN NOISE CONTOUR OF A FREEWAY, EXPRESSWAY, RAILROAD OR INDUSTRIAL SOURCE GUIDE WAY
3. WHERE EXPOSED TO NOISE LEVEL OF 65 DB LEQ-1-HR DURING ANY HOUR OF OPERATIONS

BUILDING CODES AND STANDARDS

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24, CCR
2022 CALIFORNIA BUILDING CODE (CBC) VOLUMES 1 & 2, PART 2, TITLE 24, CCR
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24, CCR
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, CCR
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, CCR)
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24, CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, CCR
2022 CALIFORNIA EXISTING BUILDING STANDARDS CODE (CEBC), PART 10, TITLE 24
2022 CALIFORNIA GREEN BUILDING STANDARD CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHALL REGULATIONS

APPLICABLE STANDARDS

FOR A LIST OF APPLICABLE STANDARDS, INCLUDING CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS, REFER TO 2022 CBC CHAPTER 35 AND CFC CHAPTER 80.

FIRE LIFE SAFETY

ALLOWABLE USES: THIS PC (OR BLDG) IS NOT APPROVED FOR 'A' OCCUPANCY

AUTOMATIC FIRE SPRINKLER SYSTEM: ☒ NOT REQUIRED / REQUIRED ☐

(WHEN APPLICABLE) AUTOMATIC FIRE SPRINKLER SYSTEMS ARE PERMITTED TO BE HYDRAULICALLY CALCULATED, PER NFPA 13, TO MEET THE WATER SUPPLY AVAILABLE AT EACH SITE. PLANS FOR SUCH SYSTEMS MAY BE SUBMITTED AS A PLAN REVIEW SUBMITTAL, AND MAY NOT BE REVIEWED UTILIZING THE "OVER THE COUNTER" PROCESS. A COMPLETE AUTOMATIC FIRE SPRINKLER SYSTEM SUBMITTAL PACKAGE MUST BE PROVIDED AT THE TIME OF THE PLAN REVIEW SUBMITTAL.

THE ARCHITECT OF RECORD (DESIGNER) OR THE DIVISION OF THE STATE ARCHITECT WILL DETERMINE THE USE OF A FIRE SUPPRESSION SYSTEM UNLESS REQUIRED OTHERWISE BY THE TYPE OF CONSTRUCTION LISTED ON THE BUILDING DATA.

ALL GROUP 'B' OCCUPANCY ARE NOT REQUIRED TO BE FIRE SPRINKLED UNO REQUIRED BY SITE ANALYSIS

EXTERIOR PROJECTIONS ARE TO BE FIRE PROTECTED UNLESS PROJECTIONS COMPLY WITH CBC SECTION 705.2

MIN SETBACK FROM ASSUMED LOT LINE = 10'-0". LESS THAN 10'-0" SEE CBC TABLE 705.5

EXTERIOR WALL OPENINGS TO COMPLY WITH TABLE 705.8

ENERGY

1. CONDITIONED BUILDING - MODEL 'E' (OFFICE) ON THIS PC IS APPROVED FOR THE 2022 CALIFORNIA ENERGY CODE IN ALL CALIFORNIA CLIMATE ZONES USING EXTERIOR WOOD STUD FRAMING ONLY - SINGLE ZONE PACKAGED UNIT, WALL MOUNT ONLY
2. UNCONDITIONED BUILDINGS - MODELS 'A' THROUGH 'D' OF THIS PC CAN FRAMED WITH EXTERIOR WOOD STUD OR METAL STUD FRAMING
3. ACCEPTANCE TEST SHALL BE COMPLETED ON NEWLY INSTALLED OR REPLACEMENT OF LIGHTING CONTROLS, MECHANICAL SYSTEMS, FENESTRATION, AND PROCESS EQUIPMENT BEFORE PROJECT COMPLETION PER THE CALIFORNIA ENERGY CODE SECTION 10-103. ACCEPTANCE TEST MUST BE PERFORMED BY A CERTIFIED ACCEPTANCE TEST TECHNICIAN (ATT). THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES CORRECTED UNTIL THE INSTALLATION OF THE SPECIFIED SYSTEMS CONFORMS AND PASS THE REQUIRED ACCEPTANCE CRITERIA. COMPLETED NRCA FORMS SHALL BE SUBMITTED TO THE PROJECT INSPECTOR AND DISTRICT

NOTE: THE USE OF THESE PLANS ARE FOR NEWLY BUILT STOCKPILE BUILDINGS BEING RELOCATED TO A SITE FOR THE FIRST TIME

KSC COMPANY
15345 FAIRFIELD RANCH RD - SUITE 160 CHINO HILLS, CA 91709
OFFICE: (909) 740-3120, FAX: (909) 726-9470
WEBSITE: WWW.SKCCOMPANY.COM
MANUFACTURER #MF1279666 DEALER # DL1279666
GC LIC # 992118 SBE CERTIFIED

2022 CBC
MANUFACTURED RELOCATABLE & MODULAR BUILDINGS
RISK CATEGORY II
PC 04-122273 12'X40' RESTROOM & OPTIONAL OFFICE BLDG
MODELS: ALL OPTIONS A, B, C, D, & E

DRAWING SYMBOLS & LEGEND

- ✱ 2"x4" WOOD STUD OR 3.5" STEEL STUD
- ✱ 2"x6" WOOD STUD OR 5.5" STEEL STUD
- ✱ 2"x8" WOOD STUD OR 7.5" STEEL STUD
- 1 HR RATED (DARK LINE THROUGH SYMBOL)
- ✱ STC 40 REQUIRED WHEN USED FOR INTERIOR WALLS SEPARATING TENANTS OR PUBLIC SPACES (OPTION 'E' ONLY). SEE INTERIOR WALL SCHEDULE ON SHEET A0.2
- INDICATES DOOR TYPE
- INDICATES WINDOW TYPE
- KEY NOTE SYMBOL
- INDICATES INTERIOR ELEVATION ORIENTATION
- INDICATES DETAIL #
- INDICATES SHEET #
- INDICATES DETAIL #
- INDICATES SHEET #
- INDICATES EXTERIOR ELEVATION #
- INDICATES SHEET #
- 5'-0" CLEAR FLOOR SPACE FOR WHEELCHAIR ACCESSIBLE MANEUVERING WITH 12" MIN. ENCROACHMENT
- 48"x30" CLEAR FLOOR SPACE FOR WHEELCHAIR ACCESS TO FIXTURE
- INDICATES ROOM NAME
- INDICATES ROOM NUMBER
- 60"x60" CLEAR FLOOR SPACE FOR WHEELCHAIR ENTRY ACCESS.

  WHEELCHAIR ACCESSIBLE CLEAR FLOOR SPACE AT ACCESSIBLE WATER CLOSET

  60"x59" AT FLOOR MOUNTED WATER CLOSET
  60"x56" AT WALL MOUNTED WATER CLOSET
- GRID LINE NUMBER OR LETTER
- INDICATES CUT SECTION DETAIL#
- INDICATES SHEET #

DRAWING INDEX

SHEET NO.	ARCHITECTURAL
A0.0	TITLE SHEET
~~A0.1~~	~~SPECIFICATIONS AND NOTES~~
~~A0.1.1~~	~~CONSTRUCTION WASTE MANAGEMENT FORMS~~
~~A0.2~~	~~CONSTRUCTION MATERIALS AND SPECIFICATIONS~~
~~A0.3~~	~~DOOR, WINDOW, AND FINISH SCHEDULES~~
~~A0.4~~	~~SIGNAGE SPECIFICATIONS AND ACCESSIBILITY~~
~~A0.6~~	~~CALGREEN REQUIREMENTS~~
~~A0.7~~	~~STC CONSTRUCTION DETAILS (INTERIOR WALLS)~~
A0.8a	SAMPLE DSA 103 FORM WOOD FOUNDATION OR BUILDING STOCKPILE PROJECT
~~A0.8b~~	~~SAMPLE DSA 103 FORM CONCRETE FOUNDATION WITH NO GEO TECH REPORT~~
~~A0.8c~~	~~SAMPLE DSA 103 FORM CONCRETE FOUNDATION WITH GEO TECH REPORT~~
~~A0.9a~~	~~CAL GREEN MANDATORY MEASURES~~
~~A0.9b~~	~~CAL GREEN MANDATORY MEASURES~~
~~A0.9c~~	~~CAL GREEN MANDATORY MEASURES~~
~~A1.A1~~	~~FLOOR PLAN OPTIONS "A", "A-1", & "A-1.1" ADULT - AGES 13 & ABOVE~~
~~A1.A2~~	~~FLOOR PLAN OPTIONS "A-2" & "A-2.1" COMBINED AGES 5 THROUGH 12~~
~~A1.A3~~	~~FLOOR PLAN OPTIONS "A-3" & "A-3.1" COMBINED AGES 3 THROUGH 8~~
~~A1.B1~~	~~FLOOR PLAN OPTIONS "B", "B-1", & "B-1.1" ADULT - AGES 13 & ABOVE~~
~~A1.B2~~	~~FLOOR PLAN OPTIONS "B-2" & "B-2.1" COMBINED AGES 5 THROUGH 12~~
~~A1.B3~~	~~FLOOR PLAN OPTIONS "B-3" & "B-3.1" COMBINED AGES 3 THROUGH 8~~
~~A1.C1~~	~~FLOOR PLAN OPTIONS "C", "C-1", & "C-1.1" ADULT - AGES 13 & ABOVE~~
~~A1.C2~~	~~FLOOR PLAN OPTIONS "C-2" & "C-2.1" COMBINED AGES 5 THROUGH 12~~
~~A1.C3~~	~~FLOOR PLAN OPTIONS "C-3" & "C-3.1" COMBINED AGES 3 THROUGH 8~~
~~A1.D1~~	~~FLOOR PLAN OPTIONS "D", "D-1", & "D-1.1" ADULT - AGES 13 & ABOVE~~
~~A1.D2~~	~~FLOOR PLAN OPTIONS "D-2" & "D-2.1" COMBINED AGES 5 THROUGH 12~~
~~A1.D3~~	~~FLOOR PLAN OPTIONS "D-3", "D-3.1" COMBINED AGES 3 THROUGH 8~~
~~A1.E~~	~~FLOOR PLAN OPTION "E"~~
~~A2.0a~~	~~REFLECTED CEILING DETAILS~~
~~A2.0b~~	~~REFLECTED CEILING DSA NOTES~~
~~A2.A~~	~~REFLECTED CEILING PLAN ALL OPTION "A"~~
~~A2.B~~	~~REFLECTED CEILING PLAN ALL OPTION "B"~~
~~A2.C~~	~~REFLECTED CEILING PLAN ALL OPTION "C"~~
~~A2.D~~	~~REFLECTED CEILING PLAN ALL OPTION "D"~~
~~A2.E~~	~~REFLECTED CEILING PLAN OPTIONS "E"~~
~~A3.5~~	~~ROOF DETAILS TPO~~
~~A3.6~~	~~ROOF PLAN MONO & DUAL SLOPE TPO~~
~~A3.7SR~~	~~SOLAR READY ROOF PLAN~~
~~A4.A1~~	~~INTERIOR ELEVATIONS OPTIONS "A", "A-1", & "A-1.1" ADULT - AGES 13 & ABOVE~~
~~A4.A2~~	~~INTERIOR ELEVATIONS OPTIONS "A-2" & "A-2.1" COMBINED AGES 5 THROUGH 12~~
~~A4.A3~~	~~INTERIOR ELEVATIONS OPTIONS "A-3" & "A-3.1" COMBINED AGES 3 THROUGH 8~~
~~A4.B1~~	~~INTERIOR ELEVATIONS OPTIONS "B", "B-1", & "B-1.1" ADULT - AGES 13 & ABOVE~~
~~A4.B2~~	~~INTERIOR ELEVATIONS OPTIONS "B-2" & "B-2.1" COMBINED AGES 5 THROUGH 12~~
~~A4.B3~~	~~INTERIOR ELEVATIONS OPTIONS "B-3" & "B-3.1" COMBINED AGES 3 THROUGH 8~~
~~A4.C1~~	~~INTERIOR ELEVATIONS OPTIONS "C", "C-1", & "C-1.1" ADULT - AGES 13 & ABOVE~~
~~A4.C2~~	~~INTERIOR ELEVATIONS OPTIONS "C-2" & "C-2.1" COMBINED AGES 5 THROUGH 12~~
~~A4.C3~~	~~INTERIOR ELEVATIONS OPTIONS "C-3" & "C-3.1" COMBINED AGES 3 THROUGH 8~~
~~A4.D1~~	~~INTERIOR ELEVATIONS OPTIONS "D", "D-1", & "D-1.1" ADULT - AGES 13 & ABOVE~~
~~A4.D2~~	~~INTERIOR ELEVATIONS OPTIONS "D-2" & "D-2.1" COMBINED AGES 5 THROUGH 12~~
~~A4.D3~~	~~INTERIOR ELEVATIONS OPTIONS "D-3", "D-3.1" COMBINED AGES 3 THROUGH 8~~
~~A4.E~~	~~INTERIOR ELEVATIONS OPTION "E"~~
~~A5.A~~	~~EXTERIOR ELEVATIONS ALL OPTIONS "A" - WOOD SIDING~~
~~A5.B~~	~~EXTERIOR ELEVATIONS ALL OPTIONS "B" - WOOD SIDING~~
~~A5.C~~	~~EXTERIOR ELEVATIONS ALL OPTIONS "C" - WOOD SIDING~~
~~A5.D~~	~~EXTERIOR ELEVATIONS ALL OPTIONS "D" - WOOD SIDING~~
~~A5.E~~	~~EXTERIOR ELEVATIONS OPTION "E" - WOOD SIDING~~
~~A6.A~~	~~EXTERIOR ELEVATIONS ALL OPTIONS "A" - STUCCO~~
~~A6.B~~	~~EXTERIOR ELEVATIONS ALL OPTIONS "B" - STUCCO~~
~~A6.C~~	~~EXTERIOR ELEVATIONS ALL OPTIONS "C" - STUCCO~~
~~A6.D~~	~~EXTERIOR ELEVATIONS ALL OPTIONS "D" - STUCCO~~
~~A6.E~~	~~EXTERIOR ELEVATIONS OPTIONS "E" - STUCCO~~
~~A6.0~~	~~ARCHITECTURAL DETAILS WOOD STUD OPTION~~
~~A8.1~~	~~ARCHITECTURAL DETAILS~~
~~A8.2~~	~~SHEET METAL AND FLASHING DETAILS~~
~~A8.3~~	~~ARCHITECTURAL DETAILS STEEL STUD OPTION~~
~~A9.0~~	~~FIRE RATED ASSEMBLIES~~
~~A9.1~~	~~FIRE RATED DETAILS~~
~~A10.0~~	~~RESTROOM ACCESSORIES SCHEDULE AND DETAILS~~
~~A10.1~~	~~RESTROOM ACCESSIBILITY DETAILS~~
~~A11.0~~	~~SOLATUBE OPTION AT TPO ROOF~~
~~A11.A1~~	~~RESTROOM ACCESSORIES PLAN "A", "A-1", & "A-1.1" ADULT - AGES 13 & ABOVE~~
~~A11.A2~~	~~RESTROOM ACCESSORIES PLAN "A-2" & "A-2.1" COMBINED AGES 5 THROUGH 12~~
~~A11.A3~~	~~RESTROOM ACCESSORIES PLAN "A-3" & "A-3.1" COMBINED AGES 3 THROUGH 8~~
~~A11.B1~~	~~RESTROOM ACCESSORIES PLAN "B", "B-1", & "B-1.1" ADULT - AGES 13 & ABOVE~~
~~A11.B2~~	~~RESTROOM ACCESSORIES PLAN "B-2" & "B-2.1" COMBINED AGES 5 THROUGH 12~~
~~A11.B3~~	~~RESTROOM ACCESSORIES PLAN "B-3" & "B-3.1" COMBINED AGES 3 THROUGH 8~~
~~A11.C1~~	~~RESTROOM ACCESSORIES PLAN "C", "C-1", & "C-1.1" ADULT - AGES 13 & ABOVE~~
~~A11.C2~~	~~RESTROOM ACCESSORIES PLAN "C-2" & "C-2.1" COMBINED AGES 5 THROUGH 12~~
~~A11.C3~~	~~RESTROOM ACCESSORIES PLAN "C-3" & "C-3.1" COMBINED AGES 3 THROUGH 8~~
~~A11.D1~~	~~RESTROOM ACCESSORIES PLAN "D", "D-1", & "D-1.1" ADULT - AGES 13 & ABOVE~~
~~A11.D2~~	~~RESTROOM ACCESSORIES PLAN "D-2" & "D-2.1" COMBINED AGES 5 THROUGH 12~~
~~A11.D3~~	~~RESTROOM ACCESSORIES PLAN "D-3", "D-3.1" COMBINED AGES 3 THROUGH 8~~
~~A11.E~~	~~RESTROOM ACCESSORIES PLAN "E"~~
~~A12.0a~~	~~RESTROOM ACCESSORIES & PLAN "D-3", "D-3.1" COMBINED AGES 3 THROUGH 8~~
~~A13.0~~	~~ARCHITECTURAL BUILDING SECTIONS MONO SLOPE~~
~~A14.0~~	~~ARCHITECTURAL BUILDING SECTIONS DUAL SLOPE~~
~~A28.0~~	~~DETERIORATION PROTECTION FOR BELOW GRADE CONDITION SHEAR WALL SYSTEM~~
~~A30.0~~	~~AWNING DETAILS~~
	FOUNDATION
F1.0	WOOD PAD FOUNDATION PLAN-PLYWOOD FLOOR
F1.8	WOOD PAD FOUNDATION DETAILS
~~F2.0~~	~~ABOVE GRADE CONCRETE FOUNDATION DETAILS~~
~~F2.1~~	~~ABOVE GRADE CONCRETE FOUNDATION PLAN~~
~~F3.0~~	~~FLUSH TO GRADE CONCRETE FOUNDATION DETAILS~~
~~F3.1~~	~~FLUSH TO GRADE CONCRETE FOUNDATION PLAN~~
~~F4.0~~	~~GENERAL CONCRETE DETAILS~~
SHEET NO.	STRUCTURAL
S0.0a	STRUCTURAL NOTES AND SPECIFICATIONS
~~S0.0b~~	~~STRUCTURAL NOTES AND SPECIFICATIONS~~
~~S0.1~~	~~STRUCTURAL BUILDING SECTIONS - PLYWOOD FLOOR~~
~~S0.2~~	~~STRUCTURAL BUILDING SECTIONS - CONCRETE FLOOR~~
~~S0.3~~	~~TYPICAL STRUCTURAL DETAILS~~
~~S1.0~~	~~FLOOR FRAMING DETAILS - PLYWOOD & CONCRETE~~
~~S1.1~~	~~FLOOR FRAMING PLAN - PLYWOOD~~
~~S1.2~~	~~FLOOR FRAMING PLAN - CONCRETE~~
~~S2.0~~	~~ROOF FRAMING DETAILS~~
~~S2.2~~	~~ROOF FRAMING PLAN - PLYWOOD SHEATHING DIAPHRAGM~~
~~S3.0~~	~~WALL FRAMING DETAILS - WOOD STUD~~
~~S3.1~~	~~WALL FRAMING DETAILS - STEEL STUD~~
~~S3.2~~	~~SHEAR WALL FRAMING ELEVATIONS~~
~~S3.3~~	~~SHEAR WALL PLANS~~
~~S4.0~~	~~ALLOWABLE BEAM AND HEADER PENETRATION~~
	MECHANICAL
~~M0.0~~	~~MECHANICAL SCHEDULES AND NOTES~~
~~M0.1~~	~~MECHANICAL DETAILS~~
~~M1.1~~	~~MECHANICAL PLANS ALL OPTIONS~~
~~M1.2~~	~~MECHANICAL ROOF PLAN ALL OPTIONS~~
~~M3.0~~	~~MODEL "E" PC WORST CASE SCENARIO TITLE 24 BUILDING ANALYSIS REPORT~~
~~M3.1~~	~~MODEL "E" PC WORST CASE SCENARIO TITLE 24 BUILDING ANALYSIS REPORT~~
~~M3.2~~	~~MODEL "E" PC WORST CASE SCENARIO TITLE 24 BUILDING ANALYSIS REPORT~~
~~M3.3~~	~~MODEL "E" PC WORST CASE SCENARIO TITLE 24 BUILDING ANALYSIS REPORT~~
	ELECTRICAL
~~E0.0~~	~~ELECTRICAL LEGENDS & DETAILS~~
~~E1.A~~	~~ELECTRICAL PLAN OPTION "A" & "A-1"~~
~~E1.AGR~~	~~SOLAR READY ELECTRICAL PLAN OPTION "A" & "A-1"~~
~~E1.B~~	~~ELECTRICAL PLAN OPTION "B" & "B-1"~~
~~E1.BSR~~	~~SOLAR READY ELECTRICAL PLAN OPTION "B" & "B-1"~~
~~E1.C~~	~~ELECTRICAL PLAN OPTION "C" & "C-1"~~
~~E1.CSR~~	~~SOLAR READY ELECTRICAL PLAN OPTION "C" & "C-1"~~
~~E1.D~~	~~ELECTRICAL PLAN OPTION "D" & "D-1"~~
~~E1.DSR~~	~~SOLAR READY ELECTRICAL PLAN OPTIONS "D" & "D-1"~~
~~E1.E~~	~~ELECTRICAL PLAN OPTION "E" (WALL MOUNTED HVAC)~~
~~E1.ESR~~	~~ELECTRICAL PLAN OPTION "E (WALL MOUNTED HVAC) SOLAR READY~~
~~E1.0DL~~	~~ELECTRICAL PLAN OPTION "E DAYLIT FLOOR PLAN~~
~~E5.0~~	~~MODEL "E" GEC FORMS~~
~~E5.1~~	~~MODEL "E" GEC FORMS~~
~~E5.2~~	~~MODEL "E" GEC FORMS~~
~~E5.3~~	~~MODEL "E" GEC FORMS~~
~~E6.0~~	~~LIGHTING CONTROLS - MODEL "A & A-1", "B & B-1", "C & C-1", "D & D-1"~~
~~E6.1~~	~~LIGHTING CONTROLS - MODEL "E"~~
~~E7.0~~	~~MODEL "A" LIGHTING FORMS~~
~~E7.1~~	~~MODEL "A" LIGHTING FORMS~~
~~E7.2~~	~~MODEL "B" LIGHTING FORMS~~
~~E7.3~~	~~MODEL "B" LIGHTING FORMS~~
~~E7.4~~	~~MODEL "C" LIGHTING FORMS~~
~~E7.5~~	~~MODEL "C" LIGHTING FORMS~~
~~E7.6~~	~~MODEL "D" LIGHTING FORMS~~
~~E7.7~~	~~MODEL "D" LIGHTING FORMS~~
	PLUMBING
~~P0.0~~	~~PLUMBING SCHEDULE AND DETAILS~~
~~P1.A1~~	~~PLUMBING PLAN OPTION "A", "A-1", & "A-1.1" ADULT - AGES 13 & ABOVE~~
~~P1.A2~~	~~PLUMBING PLAN OPTION "A-2" & "A-2.1" COMBINED AGES 5 THROUGH 12~~
~~P1.A3~~	~~PLUMBING PLAN OPTION "A-3" & "A-3.1" COMBINED AGES 3 THROUGH 8~~
~~P1.B1~~	~~PLUMBING PLAN OPTION "B", "B-1", & "B-1.1" ADULT - AGES 13 & ABOVE~~
~~P1.B2~~	~~PLUMBING PLAN OPTION "B-2" & "B-2.1" COMBINED AGES 5 THROUGH 12~~
~~P1.B3~~	~~PLUMBING PLAN OPTION "B-3" & "B-3.1" COMBINED AGES 3 THROUGH 8~~
~~P1.G1~~	~~PLUMBING PLAN OPTION "G", "G-1", & "G-1.1" ADULT - AGES 13 & ABOVE~~
~~P1.G2~~	~~PLUMBING PLAN OPTION "G-2" & "G-2.1" COMBINED AGES 5 THROUGH 12~~
~~P1.G3~~	~~PLUMBING PLAN OPTION "G-3" & "G-3.1" COMBINED AGES 3 THROUGH 8~~
~~P1.D1~~	~~PLUMBING PLAN OPTION "D", "D-1", & "D-1.1" ADULT - AGES 13 & ABOVE~~
~~P1.D2~~	~~PLUMBING PLAN OPTION "D-2" & "D-2.1" COMBINED AGES 5 THROUGH 12~~
~~P1.D3~~	~~PLUMBING PLAN OPTION "D-3", "D-3.1" COMBINED AGES 3 THROUGH 8~~
	RAMP, LANDING AND STAIR (NOT PART OF THIS PC)
	TOTAL SHEET COUNT: ~~154~~ 5

DESIGN PARAMETERS

FLOOR LIVE LOAD: ~~50 PSF~~ 50+15 PSF ~~& 100 PSF~~

ROOF LIVE LOAD: 20 PSF
GROUND SNOW LOAD MAXIMUM: 31 PFS FULLY EXPOSED, 28 PARTIALLY EXPOSED, 26 PSF SHELTERED

ROOF SNOW LOAD: 20 PSF MAX (ASCE 7-16 SEC 7.4)
Ce = 0.9 FULLY EXPOSED, 1.0 PARTIALLY EXPOSED, 1.1 SHELTERED
I = 1.0, Ct = 1.0
FOR SNOW DRIFT, THE SITE APPLICATION DSA REVIEWER SHALL VERIFY THAT THE STRUCTURE IS TO BE LOCATED AT LEAST 20 FT FROM ANY ADJACENT STRUCTURE UNLESS A DRIFT ANALYSIS IS PROVIDED (NOT ACCEPTED AT AN OTC REVIEW)

FLOOD HAZARD AREA: NO

WIND DESIGN: (ASCE 7-16)
Kzt = 1.0
WIND SPEED = 130MPH, RISK CATEGORY = II , EXPOSURE = C
INTERNAL PRESSURE COEFFICIENT = ±0.18
COMPONENTS & CLADDING DESIGN BY PC ENGINEER OF RECORD

DESIGN ROOF DEAD LOAD: 18 PSF (BEAMS AND TRUSSES) INCLUDES 2.2 PSF FOR ROOF MOUNTED SOLAR PANELS

DESIGN FLOOR DEAD LOAD:
PLYWOOD FLOOR - 8 PSF
~~CONCRETE DECK - 31 PSF~~

EARTHQUAKE DESIGN DATA:
1. I = 1.0, RISK CATEGORY = II
2. SS = 3.4286 (MAX MAPPED VALUE)
   S_1 = 1.389 (MAX MAPPED VALUE)
3. SITE CLASS = D-DEFAULT
4. S_{DS} = 2.743, S_{D1} =1.296
5. FA = 1.2, FV = 1.4
6. SEISMIC DESIGN CATEGORY = E
7. BASIC "SEISMIC" FORCE RESISTING SYSTEM - LIGHT FRAME WALLS SHEATHED WITH WOOD STRUCTURAL PANELS
8. DESIGN BASE SHEAR = 14032# (PLYWOOD FLOORS), 18700# (CONCRETE FLOORS)
9. CS = 0.422
10. R = 6.5
11. EQUIVALENT LATERAL FORCE PROCEDURE
12. NO VERTICAL OR HORIZONTAL IRREGULARITIES
13. RHO = 1.0

GEOHAZARD REPORTS: THE DESIGN ARCHITECT IN GENERAL RESPONSIBLE CHARGE MUST VERIFY THAT THE GEOHAZARD REPORT IDENTIFIES NO SITE RELATED GEOLOGIC HAZARDS WHICH WOULD PRECLUDE THE USE OF THE PROPOSED PC DESIGN AT THE SITE, INCLUDING BUT NOT LIMITED TO LIQUIFACTION POTENTIAL, LANDSLIDE, FLOODING, EARTHQUAKE FAULT, ETC

NOTES:
1. SITE CLASS A, B, C, AND D TO BE SUBSTANTIATED BY GEOTECHNICAL REPORT, SITE CLASS D- DEFAULT TO BE USED IN ABSENCE OF GEOTECHNICAL REPORT.
2. UNLESS A SITE SPECIFIC GROUND MOTION HAZARD ANALYSIS IS PERFORMED, THE S_{M1}, VALUE INCREASED BY 50% SHALL BE LESS THAN THE DESIGN CRITERIA STATED HEREIN.

SELECT ONE

SEISMIC DESIGN FOR SITE SPECIFIC PROJECTS

☒ DESIGN BASED ON SITE CLASS D DEFAULT
NO GEOTECHNICAL INVESTIGATION REQUIRED
Ss = 1.502 Fa = 1.2

☐ DESIGN BASED ON SITE CLASS DETERMINED PER CHAPTER 20 OF ASCE 7-16
NO GEOTECHNICAL INVESTIGATION REQUIRED
SITE CLASS: ☐ C ☐ D ☐ E
Ss = _____ Fa = _____ PER ASCE 7-16 SUPPL 3 TABLE 11.4-1

☐ DESIGN BASED ON SITE CLASS GROUND MOTION HAZARD ANALYSIS PER CHAPTER 21 OF ASCE 7-16
SHORT-PERIOD DESIGN SPECTRAL RESPONSE PARAMETER, S_{DS}, SHALL BE AS SPECIFIED IN GEOTECHNICAL INVESTIGATION
CGS APPROVAL REQUIRED
NOT ELIGIBLE FOR OTC REVIEW
SITE CLASS: ☐ C ☐ D ☐ E
Ss = _____ Fa = _____

Sds = 2/3 Fa Ss= 1.200 < 2.74

Cs = 0.422 USED IN DESIGN
SEISMIC DESIGN CATEGORY: ☐ D ☒ E
ASCE 7-16 12.8.1.3 HAS NOT BEEN USED IN CALCULATION OF Sds

BUILDING DATA

TYPE OF CONSTRUCTION: V-B

BUILDING AREA: 12'x40' = 480 SF
(600 SF MAX WITH OPTIONAL OVERHANGS)

OCCUPANCY: B - RESTROOMS
~~B - OFFICE (MODEL "E")~~

ALLOWABLE AREA: 9,000 SF

NO. OF STORIES: 1

MODULES: 12'x40'

STRUCTURAL DATA

STRUCTURAL DESIGN: SHEAR WALL

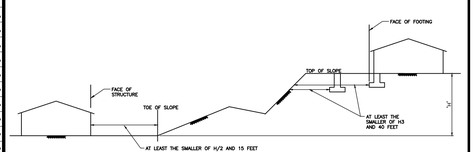
FOUNDATION:
☒ WOOD PAD: ~~50~~, 50+15 ~~& 100~~ PSF (CONDITIONAL)
☐ ABOVE GRADE CONCRETE: 50, 50+15 & 100 PSF
☐ FLUSH TO GRADE CONCRETE: 50, 50+15 & 100 PSF (CONDITIONAL)

SEISMIC SEPARATION: 4 1/2" MIN FROM OTHER EXISTING OR FUTURE BUILDINGS MEASURED FROM ITS FARTHEST PROJECTION

THIS PC (OR BLDG) IS DESIGNED STRUCTURALLY TO SUPPORT THE WEIGHT OF A FIRE SPRINKLER SYSTEM

ALLOWABLE SOIL BEARING: WOOD FOUNDATION: SEE SHEET S0.0a
~~CONCRETE FOUNDATION: SEE SHEET S0.0a~~

MIN SET BACK FROM SLOPE



STATE AGENCY APPROVAL

KSC COMPANY
15345 FAIRFIELD RANCH RD - SUITE 160 CHINO HILLS, CA 91709
OFFICE: (909) 740-3120, FAX: (909) 726-9470
WEB

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC

Application Number: 04-122273
DSA File Number: PC-116
School Name: 12x40 Restroom And Optional PC
Increment Number:
School District: SKC Company
Date Created: 2023-07-28 17:14:17

2022 CBC

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).

**NOTE: Undefined section and table references found in this document are from the CBC, or California Building Code.

KEY TO COLUMNS

1. TYPE	2. PERFORMED BY
Continuous – Indicates that a continuous special inspection is required	GE (Geotechnical Engineer) – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.
Periodic – Indicates that a periodic special inspection is required	LOR (Laboratory of Record) – Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program, See CAC Section 4-335.
Test – Indicates that a test is required	PI (Project Inspector) – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.
	SI (Special Inspection) – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINIUM), 2022 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16, AISI S100-20, RCSC 2014, AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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	S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Verify identification of all materials and: – Mill certificates indicate material properties that comply with requirements. – Material sizes, types and grades comply with requirements.	Periodic	*	Table 1705A.2.1 Item 3a–3c; 2202A.1; AISI S100-20 Section A3.1 & A3.2, AISI S240-20 Section A1.8 &1, AISI S220-20 Sections A1.8 &6. * By special inspector or qualified technician when performed off-site.
☑	b. Test unidentified materials	Test	LOR	2202A.1.
☑	c. Examine seam welds of HSS shapes	Periodic	SI	DSA IR 17-3.
☑	d. Verify and document steel fabrication per DSA-approved construction documents.	Periodic	SI	Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4).
☐	e. Buckling restrained braces.	Test	LOR	Testing and special inspections in accordance with IR 22-4.

	S/A2. HIGH-STRENGTH BOLTS:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA-approved documents.	Periodic	SI	Table 1705A.2.1 Items 1a & 1b, 2202A.1; AISC 360-16 Section A3.3, J3.1, and N3.2; RCSC 2014 Section 1.5 & 2.1, DSA IR 17-8 & DSA IR 17-9.
☐	b. Test high-strength bolts, nuts and washers.	Test	LOR	Table 1705A.2.1 Item 1c, 2213A.1; RCSC 2014 Section 7.2; DSA IR 17-9.
☐	c. Bearing-type ("snug tight") connections.	Periodic	SI	Table 1705A.2.1 Item 2a, 1705A.2.6, 2204A.2; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Section 9.1; DSA IR 17-9.
☐	d. Pretensioned and slip-critical connections.	*	SI	Table 1705A.2.1 Items 2b & 2c, 1705A.2.6, 2204A.2; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Sections 9.2 & 9.3; DSA IR 17-9. **"Continuous" or "Periodic" depends on the tightening method used.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINIUM), 2022 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16, AISI S100-20, RCSC 2014, AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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	S/A3. WELDING:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Verify welder filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS.	Periodic	SI	1705A.2.5, Table 1705A.2.1 Items 4 & 5; AWS D1.1 and AWS D1.8 for structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed steel; AWS D1.4 for reinforcing steel; DSA IR 17-3.
☑	b. Verify weld filler material manufacturer's certificate of compliance.	Periodic	SI	DSA IR 17-3.
☑	c. Verify WPS, welder qualifications and equipment.	Periodic	SI	DSA IR 17-3.

	S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3):			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	Continuous	SI	Table 1705A.2.1 Items 5a, 5a.1–4; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
☑	b. Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds.	Periodic	SI	1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
☐	c. Inspect welding of stairs and railing systems.	Periodic	SI	1705A.2.1; AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3.
☐	d. Verification of reinforcing steel weldability other than ASTM A706.	Periodic	SI	1705A.3.1; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
☐	e. Inspect welding of reinforcing steel.	Continuous	SI	Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8; AWS D1.4; DSA IR 17-3.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINIUM), 2022 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16, AISI S100-20, RCSC 2014, AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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	S/A5. FIELD WELDING (IN ADDITION TO SECTION S/A3):			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	Continuous	SI	Table 1705A.2.1 Items 5a.1–4; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.
☐	b. Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds.	Periodic	SI	Table 1705A.2.1 Item 5a.5; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.
☐	c. Inspect welding of stairs and railing systems.	Periodic	SI	Table 1705A.2.1 Item 5a.6; AISC 360-16 (AISC 341-16 as applicable); AWS D1.1; DSA IR 17-3.
☐	d. Inspect floor and roof deck welds.	Periodic	SI	1705A.2.2, Table 1705A.2.1 Item 5a.6; AISC 360-16 (AISC 341-16 as applicable); AWS D1.3; DSA IR 17-3.
☐	e. Inspect welding of structural cold-formed steel.	Periodic	SI*	1705A.2.5; AWS D1.3; DSA IR 17-3. The quality control provisions of AISI S240-20 Chapter D shall also apply. * May be performed by the project inspector when specifically approved by DSA.
☐	f. Inspect welding of stairs and railing systems.	Periodic	SI*	1705A.2.1; AISC 360-16 (AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3. * May be performed by the project inspector when specifically approved by DSA.
☐	g. Verification of reinforcing steel weldability.	Periodic	SI	1705A.3.1; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
☐	h. Inspect welding of reinforcing steel.	Continuous	SI	Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8; AWS D1.4; DSA IR 17-3.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINIUM), 2022 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16, AISI S100-20, RCSC 2014, AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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	S/A6. NONDESTRUCTIVE TESTING:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Ultrasonic	Test	LOR	Table 1705A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.
☑	b. Magnetic Particle	Test	LOR	1705A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.
☐	c.	Test	LOR	

	S/A7. STEEL JOISTS AND TRUSSES:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Verify size, type and grade for all chord and web members as well as connectors and weld filler material; verify joist profile, dimensions and camber (if applicable); verify all weld locations, lengths and profiles; mark or tag each joist.	Continuous	SI	Table 1705A.2.3, Table 1705A.3.2; AWS D1.1; DSA IR 22-3 for steel joists only. 1705A.2.4; AWS D1.3 for cold-formed steel trusses.

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1705A.2.1, Table 1705A.2.1; AISC 360-16, AISC 341-16, AISC 358-16, AISC 360-16, AISI S100-20, RCSC 2014, AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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	Test or Special Inspection	Type	Performed By	Code References and Notes
	S/A8. SPRAYED FIRE-RESISTANT MATERIALS:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Examine structural steel surface conditions, inspect application, take samples, measure thickness and verify compliance of all aspects of application with DSA-approved documents.	Periodic	SI	1705A.15, 1705A.1, 1705A.2, 1705A.3, 1705A.4.
☐	b. Test density.	Test	LOR	1705A.15.1, 1705A.15.5, ASTM E736
☐	c. Bond strength adhesion/cohesion.	Test	LOR	1705A.15.1, 1705A.15.4, ASTM E605

	S/A9. ANCHOR BOLTS AND ANCHOR RODS:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Anchor Bolts and Anchor Rods	Test	LOR	Sample and test anchor bolts and anchor rods not readily identifiable per procedures noted in DSA IR 17-11.
☐	b. Threaded rod not used for foundation anchorage.	Test	LOR	Sample and test threaded rods not readily identifiable per procedures noted in DSA IR 17-11.

	S/A10. STORAGE RACK SYSTEMS:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Materials used, to verify compliance with one or more of the material test reports in accordance with the approved construction documents.	Periodic	SI	Table 1705A.13.7
☐	b. Fabricated storage rack elements.	Periodic	SI	1704A.2.5; Table 1705A.13.7

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINIUM), 2022 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16, AISI S100-20, RCSC 2014, AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	c. Storage rack anchorage installation.	Periodic	SI	ANSI/MH16.1 Section 7.3.2; Table 1705A.13.7
☐	d. Completed storage rack system to indicate compliance with the approved construction documents.	Periodic	SI*	Table 1705A.13.7. * May be performed by the project inspector when specifically approved by DSA.

	S/A11. Other Steel			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a.			

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

Application Number: 04-122273
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Exempt items given in DSA IR A-22 or the 2019 CBC (including DSA amendments) and those items identified below with a check mark by the design professional are NOT subject to DSA requirements for the structural tests / special inspections noted. Items marked as exempt shall be identified on the approved construction documents. The project inspector shall verify all construction complies with the approved construction documents.

SOILS:

- ☐ 1. Deep foundations acting as a cantilever footing with a design based on minimum allowable pressures per CBC Table 1806A.2 and without a geotechnical report for the following cases: A) free standing sign or scoreboard, B) cell or antenna towers and poles less than 35'-0" tall (e.g., lighting poles, flag poles, poles supporting open mesh fences, etc.), C) single-story structure with dead load less than 5 psf (e.g., open fabric shade structure), or D) covered walkway structure with an apex height less than 10'-0" above adjacent grade.
- ☐ 2. Shallow foundations, etc. are exempt from special inspections and testing by a Geotechnical Engineer for the following cases: A) buildings without a geotechnical report and meeting the exception item #1 criteria in CBC Section 1803A.2 supported by native soil (any excavation depth) or fill soil (not exceeding 12" depth per CBC Section 1804A.6), B) soil scarification/recompaction not exceeding 12" depth, C) native or fill soil supporting exterior non-structural flatwork (e.g., sidewalks, site concrete ramps, site stairs, parking lots, driveways, etc.), D) unpaved landscaping and playground areas, or E) utility trench backfill.

CONCRETE/MASONRY:

- ☐ 1. Post-installed anchors for the following: A) exempt non-structural components (e.g., mechanical, electrical, plumbing equipment - see item 7 for "Welding" in the Appendix below) given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) or B) interior nonstructural wall partitions meeting criteria listed in exempt item 3 for "Welding" in the Appendix below
- ☐ 2. Concrete batch plant inspection is not required for items given in CBC Section 1705A.3.3.2 subject to the requirements and limitations in that section.
- ☐ 3. Non-bearing non-shear masonry walls may be exempt from certain DSA masonry testing and special inspection items as allowed per DSA IR 21-1. Refer to construction documents for specific exemptions accordingly for each applicable wall condition.
- ☐ 4. Epoxy shear dowels in site flatwork and/or other non-structural concrete.

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

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CONCRETE/MASONRY:

- ☐ 5. Testing of reinforcing bars is not required for items given in CBC Section 1910A.2 subject to the requirements and limitations in that section.

WELDING:

- ☐ 1. Solid-clad and open-mesh fences, gates with maximum leaf span of 10', and gates with a maximum rolling section of 10' all having an apex height less than 8'-0" above lowest adjacent grade. When located above circulation or occupied space below, these gates/fences are not located within 1.5x gate/fence height (max 8'-0") to the edge of floor or roof.
- ☐ 2. Handrails, guardrails, and modular or relocatable ramps associated with walking surfaces less than 30" above adjacent grade (excluding post base connections per the 'Exception' language in Section 1705A.2.1); fillet welds shall not be ground flush.
- ☐ 3. Non-structural interior cold-formed steel framing spanning less than 15'-0", such as in interior partitions, interior soffits, etc. supporting only self weight and light-weight finishes or adhered tile, masonry, stone, or terra cotta veneer no more than 5/8" thickness and apex less than 20'-0" in height and not over an exit way. Maximum tributary load to a member shall not exceed the equivalent of that occurring from a 10'x10' opening in a 15' tall wall for a header or king stud.
- ☐ 4. Manufactured support frames and curbs using hot rolled or cold-formed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment weighing less than 200# (equipment only) (connections of such frames to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).
- ☐ 5. Manufactured components (e.g., Tolco, B-Line, Mcon, etc.) for mechanical, electrical, or plumbing hanger support and bracing (connections of such components to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).
- ☐ 6. TV Brackets, projector mounts with a valid listing (see DSA IR A-5) and recreational equipment (e.g., playground structures, basketball backstops, etc.) (connections of such elements to superstructure elements using welding will require special inspection as noted in selected item(s) for sections S/A3, S/A4 and/or S/A5 located in the Steel/Aluminum category of listing above).
- ☐ 7. Any support for exempt non-structural components given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) meeting the following: A) when supported on a floor/roof, <400# and resulting composite center of mass (including component's center of mass) ≤4' above supporting floor/roof, B) when hung from a wall or roof/floor, <20# for discrete units or <5 pli for distributed systems.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS(SIGNATURE), 2022 CBC

Application Number: 04-122273
DSA File Number: PC-116
School Name: 12x40 Restroom And Optional PC
Increment Number:
School District: SKC Company
Date Created: 2023-07-28 17:14:17

Name of Architect or Engineer in general responsible charge:

Name of Structural Engineer (When structural design has been delegated):

Signature of Architect or Structural Engineer: Date:

Note: To facilitate DSA electronic mark-ups and identification signature, DSA recommends against using secured electronic or digital signatures.

DSA STAMP

DSA 103-22: LIST OF REQUIRED VERIFIED REPORTS, CBC 2022

Application Number: 04-122273
DSA File Number: PC-116
School Name: 12x40 Restroom And Optional PC
Increment Number:
School District: SKC Company
Date Created: 2023-07-28 17:14:17

1. Structural Testing and Inspection: Laboratory Verified Report Form DSA 291
2. Shop Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292

THE SAMPLE DSA 103 FORMS SHOWN ON THIS SHEET ARE FOR ILLUSTRATION PURPOSES ONLY. A SEPARATE DSA 103 FORM IS TO BE COMPLETED FOR EACH PROJECT SPECIFIC APPLICATION THAT THIS PC IS BEING INCORPORATED INTO. THE DSA 103 FORM IS TO BE COMPLETED BY THE ARCHITECT OF RECORD FOR THE OVERALL SCOPE OF WORK ON THE PROJECT SPECIFIC APPLICATION. MODULAR BUILDING MANUFACTURER (OR DESIGN BUILD CONTRACTOR) IS ONLY RESPONSIBLE FOR COMPLETING DSA103 FORM ON STOCKPILE PROJECTS. THE SAMPLE DSA 103 FORM SHALL BE CROSSED OUT ON THIS DRAWING.

NOTES:

IF DETAIL #10/F1.8 IS APPLICABLE: INCLUDE SECTION DSA 103-22 FORM ABOVE SHOWN ABOVE

STATE AGENCY APPROVAL

SKC COMPANY
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OFFICE: (909) 740-3120, FAX: (909) 726-9470
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DISTRICT/CUSTOMER NAME:
ANTELOPE UNION
HIGH SCHOOL DISTRICT

SCHOOL/SITE NAME:
SOARS
HIGH SCHOOL

SHEET TITLE:

SAMPLE DSA 103 WOOD FOUNDATION OR BUILDING STOCKPILE PROJECTS

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122273 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 10/05/2023

PROFESSIONAL OF RECORD ON PC

ORION
Structural Engineering, Inc.
11305 RANCHO BERNARDO RD
SUITE 121
SAN DIEGO CA, 92127
PHONE (858) 679-1974

BRIAN J. ORION — No. C-54837 — EXP. 12/31/24 — STRUCTURAL — STATE OF CALIFORNIA

FIRM: ORION STRUCTURAL ENGINEERING, INC.
ADDRESS: 11305 RANCHO BERNARDO ROAD, SUITE 121
CITY: SAN DIEGO, CA 92127
PHONE: (858) 679-1974

PROJECT SPECIFIC PROFESSIONAL OF RECORD

FIRM:
ADDRESS:
CITY:
PHONE:

REVISIONS

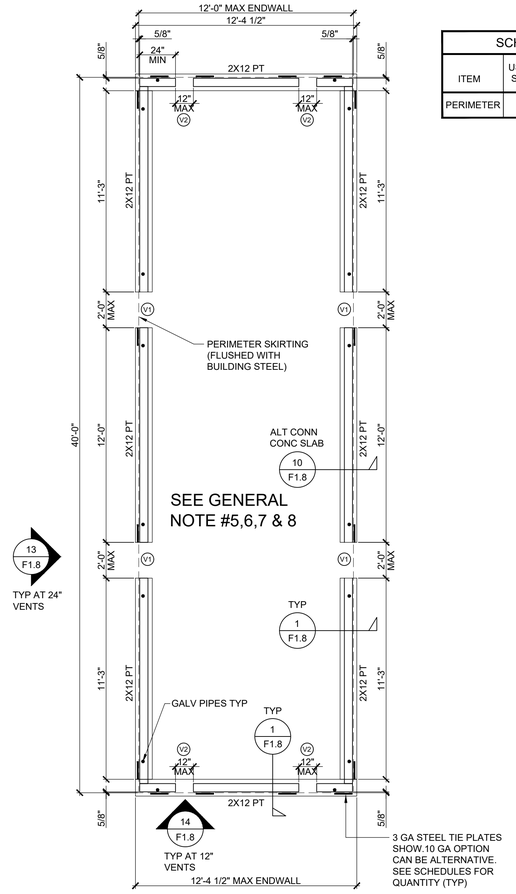
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4 -
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PROJECT NO.:	00-0000
DRAFTER:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

A0.8a

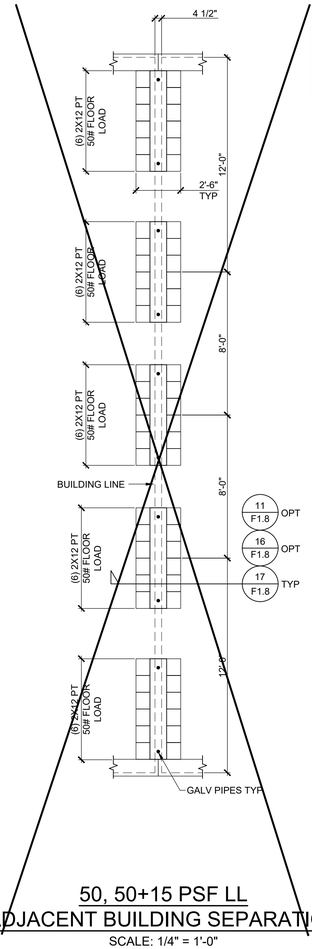
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SCHEDULE		
ITEM	USING 12 FT SILL PLATE	MIN QTY OF PIPES
PERIMETER	8	16

FOUNDATION PLAN

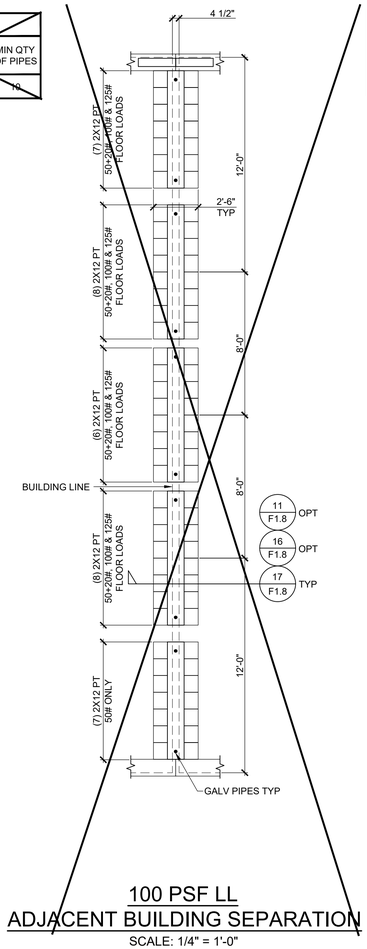
SCALE: 1/4" = 1'-0"



SCHEDULE		
ITEM	USING 12 FT SILL PLATE	MIN QTY OF PIPES
PERIMETER		10

50, 50+15 PSF LL ADJACENT BUILDING SEPARATION

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



SCHEDULE		
ITEM	USING 12 FT SILL PLATE	MIN QTY OF PIPES
PERIMETER	5	18

100 PSF LL ADJACENT BUILDING SEPARATION

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

GENERAL NOTES:

1. DESIGN ALLOWABLE SOIL BEARING PRESSURE - 1000 PSF
2. ALL FOUNDATION LUMBER SHALL BE HF #2 ALL LUMBER IN CONTACT WITH GRADE SHALL BE STAMPED "FOR GROUND CONTACT" ALL FOUNDATION FASTENERS SHALL BE CORRISION RESISTANT PER 2304.9.5
3. CONTINUOUS TOP PLATE NOT SHOWN FOR CLARITY
4. MAXIMUM 2,160 SQ FT FOR STAND-ALONE WOOD PAD FOUNDATION SYSTEM PER DSA IR 16-1
5. MINIMUM (3) SIDES FOR CROSS VENTILIZATION
6. THE ENDWALL SIDE MUST BE VENTED
7. OPTION - PER SECTION 1202.4.1.2, THE TOTAL AREA OF VENTILATION OPENINGS IS PERMITTED TO BE REDUCED TO 1/1500 OF THE UNDER-FLOOR AREA WHERE THE GROUND SURFACE IS COVERED WITH A CLASS I VAPOR RETARDER MATERIAL AND THE REQUIRED OPENINGS ARE PLACED SO AS TO PROVIDE CROSS VENTILATION OF THE SPACE. THE INSTALLATION OF OPERABLE LOUVERS SHALL NOT BE PROHIBITED
8. THE 24" WIDE MAX VENT OPENING AT THE SIDEWALL IS A FIX LOCATION. REFER TO DETAIL #10B/F-5 FOR BLOCK-OUT REQUIREMENTS. THE 12" WIDE MAX VENT OPENING CAN BE LOCATED ANYWHERE ON THE FOUNDATION ABIDING BY DETAIL #10A/F-5 BLOCK-OUT REQUIREMENTS. WHEN RAMPS, LANDINGS OR STAIRS ARE USED, THE VENT AREAS THAT ARE ACCOUNTED FOR TO MEET THE MIN VENTILATION REQUIREMENTS MUST EITHER BE RELOCATED OR THE RAMP, LANDING OR STAIRS MUST ALSO BE VENTED TO ALLOW VENTILATION

WOOD PAD FOUNDATION (PERIMETER)				
FLOOR LIVE LOAD PSF	50	50+15	100	
SILL PLATE (END WALL)	2x12 CONT	2x12 CONT	2x12 CONT	
SILL PLATE (SIDE WALL)	2x12 CONT	2x12 CONT	2x12 CONT	
BLOCK PLATE (END WALL)	2x8	2x8	2x8	
BLOCK PLATE (SIDE WALL)	2x8	2x8	2x8	
BLOCKPLATE (END WALL)	2x6	2x6	2x6	
BLOCKPLATE (SIDE WALL)	2x6	2x6	2x6	
CONT. TOP PLATE	2x4	2x4	2x4	

NOTE:
THIS FOUNDATION PLAN SHALL NOT BE USED WITH THE CONCRETE FLOOR OPTION

10 GA. TIE PLATE SCHEDULE				
BUILDING SIZE	FLOOR LOAD PSF	PER EA SIDE ENDWALL	PER EA SIDE SIDEWALL	GRAND TOTAL
12'x40'	50	7	7	28
	50+15	9	9	36

3 GA. TIE PLATE SCHEDULE				
BUILDING SIZE	FLOOR LOAD PSF	PER EA SIDE ENDWALL	PER EA SIDE SIDEWALL	GRAND TOTAL
12'x40'	50	4	4	16
	50+15	5	5	20

NOTE:
ALL LUMBER SHALL BE DF#2 WHEN USING THE 3 GA TIE PLATE OPTION

LAG SCH AT SEPARATION	
FLOOR LOAD PSF	PER EA SIDE OF MODULE
50	8
50+15	8
100	8

VENTILATION FORMULA (BASED ON 4 1/2" PAD HEIGHT)

BUILDING SQUARE FOOTAGE: 12' X 40' = 480 SF

REQUIRED VENTILATION: 1 SF / 150 SF (ALLOWED BY CODE)
960 SF / 150 SF = 3.2 SF VENTILATION REQUIRED

(V1) 24" MAX VENTS TO BE : 4
24" X 3" = 72 / 144 = 0.5 SF
TOTAL VENTILATION: (4) VENTS X 0.5 = 2.0 SF X 50% SCREEN POROSITY = 1.0 SF

(V2) 12" MAX VENTS TO BE USE: 40
12" X 1.5" = 18 / 144 = 0.125 SF
TOTAL VENTILATION: (40) VENTS X 0.125 = 5.0 SF X 50% SCREEN POROSITY = 2.5 SF

OVERALL VENTILATION:
1.0 + 2.5 = 3.5 SF

3.5 SF ≥ 3.2 SF VENTILATION REQUIREMENT = OK

NOTE:
ADDITIONAL 12" MAX VENTS WILL BE REQUIRED WHEN FOUNDATION PAD HEIGHT IS LESS THAN 6" INCLUDING SITE CONDITIONS WHERE THE 24" MAX FIXED VENT IS BLOCKED OR SLOPED GRADES. THE 12" MAX VENT CAN BE INSTALLED ANYWHERE ON THE PLAN ABIDING BY DETAIL #10A/F-5

VENTILATION FORMULA (BASED ON 6" PAD HEIGHT)

BUILDING SQUARE FOOTAGE: 12' X 40' = 480 SF

REQUIRED VENTILATION: 1 SF / 150 SF (ALLOWED BY CODE)
960 SF / 150 SF = 3.2 SF VENTILATION REQUIRED

(V1) 24" MAX VENTS TO BE : 4
24" X 4.5" = 108 / 144 = 0.75 SF
TOTAL VENTILATION: (4) VENTS X 0.75 = 3.0 SF X 50% SCREEN POROSITY = 1.5 SF

(V2) 12" MAX VENTS TO BE USE: 14
12" X 3" = 36 / 144 = 0.25 SF
TOTAL VENTILATION: (14) VENTS X 0.25 = 3.5 SF X 50% SCREEN POROSITY = 1.75 SF

OVERALL VENTILATION:
1.5 + 1.75 = 3.25 SF

3.25 SF ≥ 3.2 SF VENTILATION REQUIREMENT = OK

NOTE:
ADDITIONAL 12" MAX VENTS WILL BE REQUIRED WHEN FOUNDATION PAD HEIGHT IS LESS THAN 6" INCLUDING SITE CONDITIONS WHERE THE 24" MAX FIXED VENT IS BLOCKED OR SLOPED GRADES. THE 12" MAX VENT CAN BE INSTALLED ANYWHERE ON THE PLAN ABIDING BY DETAIL #10A/F-5

VENTILATION FORMULA (BASED ON 7 1/2" PAD HEIGHT)

BUILDING SQUARE FOOTAGE: 12' X 40' = 480 SF

REQUIRED VENTILATION: 1 SF / 150 SF (ALLOWED BY CODE)
960 SF / 150 SF = 3.2 SF VENTILATION REQUIRED

(V1) 24" MAX VENTS TO BE : 4
24" X 6" = 144 / 144 = 1.0 SF
TOTAL VENTILATION: (4) VENTS X 1.0 = 4.0 SF X 50% SCREEN POROSITY = 2.0 SF

(V2) 12" MAX VENTS TO BE USE: 7
12" X 4.5" = 54 / 144 = 0.38 SF
TOTAL VENTILATION: (7) VENTS X 0.38 = 2.66 SF X 50% SCREEN POROSITY = 1.33 SF

OVERALL VENTILATION:
2.0 + 1.33 = 3.33 SF

3.33 SF ≥ 3.2 SF VENTILATION REQUIREMENT = OK

NOTE:
ADDITIONAL 12" MAX VENTS WILL BE REQUIRED WHEN FOUNDATION PAD HEIGHT IS LESS THAN 6" INCLUDING SITE CONDITIONS WHERE THE 24" MAX FIXED VENT IS BLOCKED OR SLOPED GRADES. THE 12" MAX VENT CAN BE INSTALLED ANYWHERE ON THE PLAN ABIDING BY DETAIL #14/F1.8

VENTILATION FORMULA (BASED ON 9" PAD HEIGHT)

BUILDING SQUARE FOOTAGE: 12' X 40' = 480 SF

REQUIRED VENTILATION: 1 SF / 150 SF (ALLOWED BY CODE)
960 SF / 150 SF = 3.2 SF VENTILATION REQUIRED

(V1) 24" MAX VENTS TO BE : 4
24" X 7.5" = 144 / 144 = 1.25 SF
TOTAL VENTILATION: (4) VENTS X 1.25 = 5.0 SF X 50% SCREEN POROSITY = 2.5 SF

(V2) 12" MAX VENTS TO BE USE: 3
12" X 6" = 72 / 144 = 0.5 SF
TOTAL VENTILATION: (3) VENTS X 0.5 = 1.5 SF X 50% SCREEN POROSITY = 0.75 SF

OVERALL VENTILATION:
2.5 + 0.75 = 3.25 SF

3.25 SF ≥ 3.2 SF VENTILATION REQUIREMENT = OK

NOTE:
ADDITIONAL 12" MAX VENTS WILL BE REQUIRED WHEN FOUNDATION PAD HEIGHT IS LESS THAN 6" INCLUDING SITE CONDITIONS WHERE THE 24" MAX FIXED VENT IS BLOCKED OR SLOPED GRADES. THE 12" MAX VENT CAN BE INSTALLED ANYWHERE ON THE PLAN ABIDING BY DETAIL #14/F1.8

VENTILATION FORMULA (BASED ON 10.5" PAD HEIGHT)

BUILDING SQUARE FOOTAGE: 12' X 40' = 480 SF

REQUIRED VENTILATION: 1 SF / 150 SF (ALLOWED BY CODE)
960 SF / 150 SF = 3.2 SF VENTILATION REQUIRED

(V1) 24" MAX VENTS TO BE : 4
24" X 9" = 216 / 144 = 1.5 SF
TOTAL VENTILATION: (4) VENTS X 1.5 = 6.0 SF X 50% SCREEN POROSITY = 3.0 SF

(V2) 12" MAX VENTS TO BE USE: 1
12" X 7.5" = 90 / 144 = 0.625 SF
TOTAL VENTILATION: (1) VENTS X 0.625 = 0.625 SF X 50% SCREEN POROSITY = 0.31 SF

OVERALL VENTILATION:
3.0 + 0.31 = 3.31 SF

3.31 SF ≥ 3.2 SF VENTILATION REQUIREMENT = OK

NOTE:
ADDITIONAL 12" MAX VENTS WILL BE REQUIRED WHEN FOUNDATION PAD HEIGHT IS LESS THAN 6" INCLUDING SITE CONDITIONS WHERE THE 24" MAX FIXED VENT IS BLOCKED OR SLOPED GRADES. THE 12" MAX VENT CAN BE INSTALLED ANYWHERE ON THE PLAN ABIDING BY DETAIL #14/F1.8

VENTILATION FORMULA (BASED ON 12"-18" PAD HEIGHT)

BUILDING SQUARE FOOTAGE: 12' X 40' = 480 SF

REQUIRED VENTILATION: 1 SF / 150 SF (ALLOWED BY CODE)
960 SF / 150 SF = 3.2 SF VENTILATION REQUIRED

(V1) 24" MAX VENTS TO BE : 4
24" X 10.5" = 252 / 144 = 1.75 SF
TOTAL VENTILATION: (4) VENTS X 1.75 = 7.0 SF X 50% SCREEN POROSITY = 3.5 SF

(V2) 12" MAX VENTS TO BE USE: 0
(ONE VENT IS REQUIRED T BE USE FOR 3RD SIDE CROSS VENTILATION)

OVERALL VENTILATION:
3.5 + 0.0 = 3.5 SF

3.5 SF ≥ 3.2 SF VENTILATION REQUIREMENT = OK

NOTE:
ADDITIONAL 12" MAX VENTS WILL BE REQUIRED WHEN FOUNDATION PAD HEIGHT IS LESS THAN 6" INCLUDING SITE CONDITIONS WHERE THE 24" MAX FIXED VENT IS BLOCKED OR SLOPED GRADES. THE 12" MAX VENT CAN BE INSTALLED ANYWHERE ON THE PLAN ABIDING BY DETAIL #14/F1.8

STATE AGENCY APPROVAL

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OFFICE: (909) 740-3120, FAX: (909) 726-9470
WEBSITE: WWW.SKCCOMPANY.COM
MANUFACTURER #MF1075666 DEALER # DL1075666
GC LIC # 992118 SBE CERTIFIED

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DISTRICT/CUSTOMER NAME:
ANTELOPE UNION
HIGH SCHOOL DISTRICT

SCHOOL/SITE NAME:
SOARS
HIGH SCHOOL

SHEET TITLE:
WOOD PAD
FOUNDATION PLAN
PLYWOOD FLOOR

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122273 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 10/05/2023

PROFESSIONAL OF RECORD ON PC

FIRM:
ADDRESS:
CITY:
PHONE:
PROJECT SPECIFIC PROFESSIONAL OF RECORD

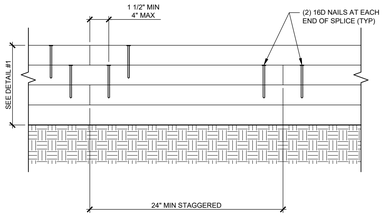
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ADDRESS:
CITY:
PHONE:

REVISIONS
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PROJECT NO.:	00-0000
DRAFTER:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER
F1.1

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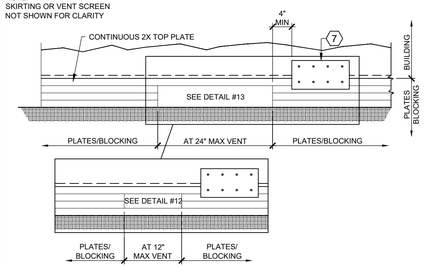


TYPICAL SPLICE DETAIL

SCALE: 3" = 1'-0"

12

NOTE:
SKIRTING OR VENT SCREEN NOT SHOWN FOR CLARITY

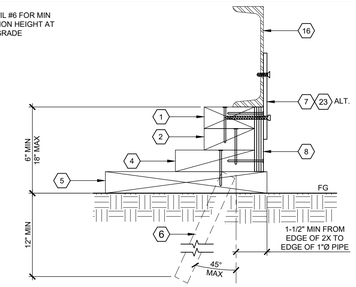


VENTS AT LEVELED GRADE

SCALE: 1" = 1'-0"

9

NOTE:
SEE DETAIL #6 FOR MIN FOUNDATION HEIGHT AT SLOPED GRADE



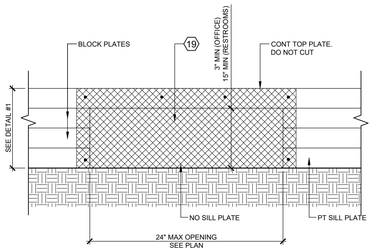
TYPICAL PERIMETER DETAIL

SCALE: 3" = 1'-0"

1

KEY NOTES

1. CONTINUOUS TOP PLATE (SEE SCHEDULE ON PLAN). INSTALL NAIL TO EACH PAD WITH 16D BOX NAILS AT 3" OC STAGGERED & (2) 16D BOX NAILS AT EACH END OF SPLICE, MIN 1 1/2" PENETRATION
2. BLOCK OR CONT PLATES (SEE SCHEDULE ON PLAN) - 16D BOX NAILS AT 3" OC. (2) 16d BOX NAILS AT EACH END OF SPLICE, MIN 1 1/2" PENETRATION
3. 1 1/2" MAX TAPERED SHIMS NAIL TO FOUNDATION PLATES WITH 8D BOX NAILS AT 12" OC NAIL STAGGERED ALONG EACH TAPERED SHIM (PER SLOPE OF GROUND AT SITE)
4. BLOCK PLATE (SEE SCHEDULE ON PLAN). SPLICES SHALL OCCUR AT CENTER OF BLOCK PLATE LOCATIONS (SEE GENERAL NOTE #3). REFER TO KEYNOTE #2 FOR NAILING
5. CONTINUOUS PRESSURE TREATED SILL PLATE (SEE PLAN). PLATE SPLICES SHALL OCCUR AT CENTER OF BLOCK PLATE LOCATION
6. 1"Ø x 19" STANDARD WEIGHT HOT DIPPED GALVANIZED PIPE AT 10'-0" OC MAX, 2'-0" MAX FROM EACH CORNER IN BOTH DIRECTIONS AND A MINIMUM OF TWO PIPES PER DISCONTINUE FOUNDATION STRIP PER DSA IR 16-1.13 SECTION 4.8. DRILL SILL PLATE 1 1/2"Ø MAX HOLE PIPE SHOULD PENETRATE INTO SOIL AND/OR PAVING A MIN OF 12" MEASURED VERTICALLY PIPES SHALL BE INSTALLED ON A CONTINUOUS PLATE. PIPE SHALL BE STAMPED WITH ASTM A53 GRADE 'A' OR 'B' AND MEET THE REQUIREMENTS OF ASTM A123
7. TYPICAL TIE PLATE AT 12X40 BUILDING: 12" X 6" X 10 GA STEEL TIE PLATE (PRIME AND PAINTED) WITH (4) 1/4"X1-1/4" LONG SDS INTO CHANNEL & (4) 3/8"X4-1/2" LAG SCREW INTO 2X MEMBER TYP LOCATE 4" MIN FROM SPLICES & END OF FOUNDATION PLATES. IF STEEL TIE PLATE IS NOT PRIMED OR PAINTED IT SHALL BE GALV. IF FASTENERS ARE NOT PAINTED, IT SHALL BE GALV
8. 5/8" PLYWOOD PERIMETER SKIRTING. NAIL TO FOUNDATION PLATES WITH 8d BOX NAILS @ 12" OC TOP AND BOTTOM. SKIRTING IS NON-STRUCTURAL
9. MODLINE - CONT PLATE (SEE SCHEDULE ON PLAN) NAIL BLOCKS TOGETHER WITH (2) 16D BOX NAILS AT EACH END OF SPLICE, MIN 1 1/2" PENETRATION
10. NOT USED
11. MODLINE - CONT PLATE (SEE SCHEDULE ON PLAN). NAIL (2) 16d @ 3" OC AND (2) 16D NAILS AT EACH END
12. MODLINE - SIDE BY SIDE PRESSURE TREATED SILL PADS (SEE SCHEDULE ON PLAN)
13. CRIPPLE WALL SILL PLATE TO PLATE NAIL WITH 16D AT 6" OC MAX (3" OC AT 125# FLOOR LOAD ONLY)
14. NOT USED
15. 5/8"Ø X 4" LAG BOLT AT MODLINE (SEE LAG SCHEDULE FOR AMOUNT). LAG SCREW SHALL BE INSTALLED VERTICALLY OR AT A MAXIMUM 45 DEGREES. 11/16"Ø HOLE IN FLOOR CHANNEL FOR 5/8"Ø x 4" LAG SCREW (SEE LAG SCHEDULE FOR AMOUNT)
16. FLOOR CHANNEL (SEE STRUCTURAL FLOOR FRAMING SHEET)
17. MACHINE BOLT (SEE STRUCTURAL BUILDING SECTION SHEET FOR SPACING)
18. FLOOR JOIST OR BLOCK
19. VENT SCREEN ATTACHED TO FOUNDATION W/ #8 SCREWS AT EACH CORNERS. COORDINATE WITH FOUNDATION PLAN TABLE FOR MAX SPACE BETWEEN FOUNDATION BLOCKS & BUILDING VENTILATION TABLE FOR VENTING REQUIREMENTS TO DETERMINE SIZE OF NET OPENING. VENTING SCREEN SHALL BE 2" LARGER THAN THE SIZE OF THE NET OPENING FOR THE SCREEN TO BE FASTENED ON EACH CORNER. VENTILATION SHALL BE PROVIDED AT A NET AREA OF NOT LESS THAN 1 SQUARE FOOT FOR EACH 150 SQUARE FEET OF UNDER FLOOR AREA
20. 5/8"Ø 'HILTI' KBTZ ANCHOR BOLT PER ICC REPORT #ESR-4266 (SEE SCHEDULE FOR QUANTITY), NOTCH BLOCK PLATE ABOVE AS NECESSARY
21. 2x6 HF #2 AT 16" OC MAX. (2) 16D NAILS TOE OR END NAILS TYP AT TOP & BTM STUDS
22. 2x4 HF #2 AT 16" OC MAX. (2) 16D BOX NAILS TOE OR END NAILS TYP AT TOP & BTM STUDS
23. ALTERNATE TIE PLATE AT 12X40 BUILDING: 12" X 6" X 3 GA STEEL TIE PLATE (PRIME AND PAINTED) WITH (4) 1/4"X1-1/4" LONG SDS INTO CHANNEL & (4) 7/16"X4-1/2" LAG SCREW INTO 2X MEMBER TYP LOCATE 4" MIN FROM SPLICES & END OF FOUNDATION PLATES. IF STEEL TIE PLATE IS NOT PRIMED OR PAINTED IT SHALL BE GALV. IF FASTENERS ARE NOT PAINTED, IT SHALL BE GALV. MIN 1-3/4" PENETRATION ON LAG SCREWS



24" MAX VENT DETAIL

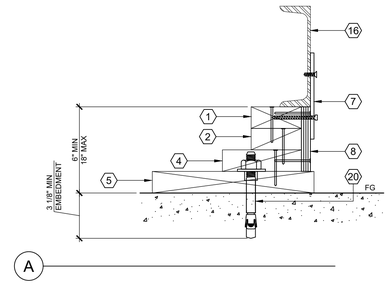
SCALE: 3" = 1'-0"

13

NOTE:
SEE DETAIL #6 FOR MIN FOUNDATION HEIGHT AT SLOPED GRADE

20 QUANTITY SCHEDULE

FLOOR LOAD		50	50+15	GRAND TOTAL
12'x40'	ENDWALL	6 PER SIDE	6 PER SIDE	24
	SIDEWALL	6 PER SIDE	6 PER SIDE	24

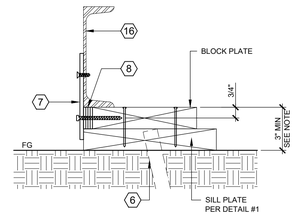


ALT FOUNDATION TO CONC SLAB

SCALE: 3" = 1'-0"

10

NOTE:
SEE DETAIL #1 FOR ADDITIONAL INFORMATION AND GENERAL NOTE #4

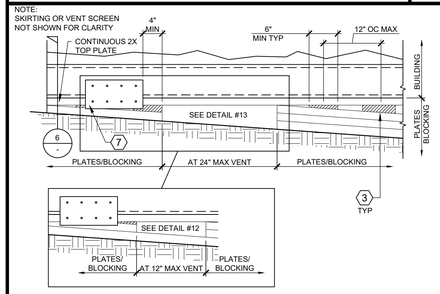


MINIMUM HEIGHT AT SLOPED GRADE

SCALE: 3" = 1'-0"

6

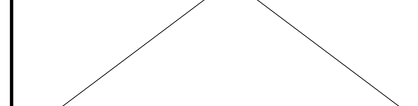
NOTE:
SKIRTING OR VENT SCREEN NOT SHOWN FOR CLARITY



VENTS/SHIMS AT SLOPED GRADE

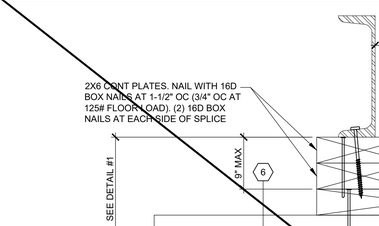
SCALE: 3" = 1'-0"

7



SCALE: 3" = 1'-0"

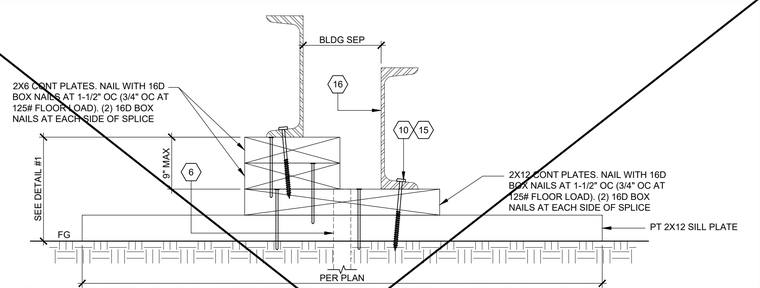
3



12" MAX VENT DETAIL

SCALE: 3" = 1'-0"

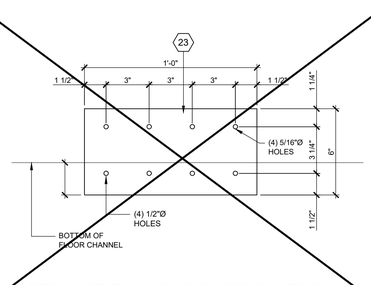
14



BUILDING SEPARATION STEPPED ELEVATION DETAIL (CONT SILL PLATES)

SCALE: 3" = 1'-0"

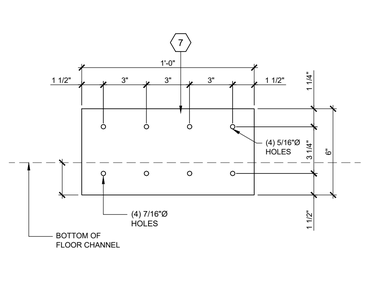
11



ALTERNATE FOUNDATION TIE PLATES

SCALE: 3" = 1'-0"

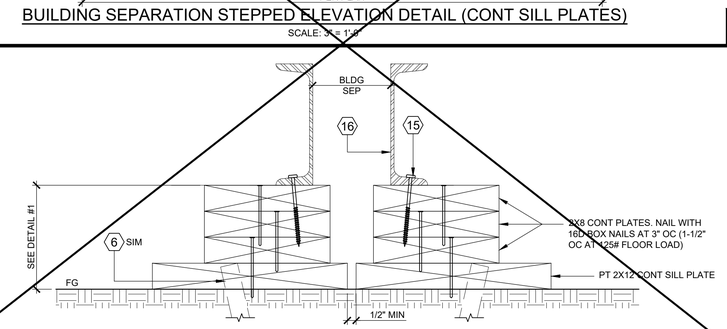
8



TYPICAL FACE PLATE DETAIL

SCALE: 3" = 1'-0"

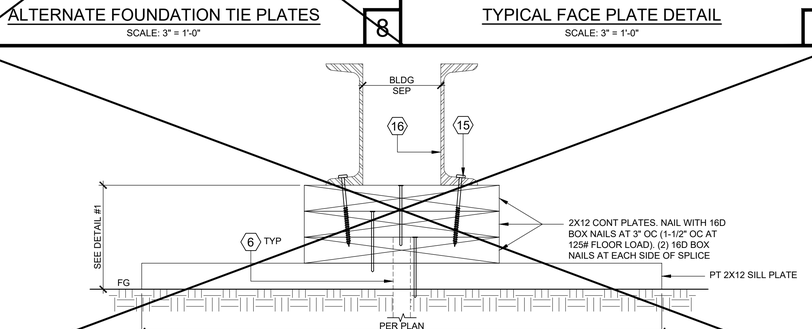
4



BUILDING SEPARATION DETAIL (CONT SILL PLATES)

SCALE: 3" = 1'-0"

17



ALTERNATE BUILDING SEPARATION DETAIL (SIDE BY SIDE SILL PLATES)

SCALE: 3" = 1'-0"

16

GENERAL NOTES:

1. CONTINUOUS PLATES, OTHER THAN TOP OR BOTTOM PLATE, CAN BE CUT AS NECESSARY FOR VENTING PURPOSES
2. SEE INDIVIDUAL FOUNDATION SHEETS FOR ALL PLATE, BLOCKS AND SILL PLATE SIZES AS REQUIRED FOR FLOOR LIVE LOAD DESIGN
3. BLOCKS ABOVE SILL PLATES ARE TO BE CENTERED
4. FOR PROJECT SPECIFIC VARIES SITE GRADE CONDITIONS, DETAIL #6/- SHALL ONLY APPLY AT MAX TWO BUILDING CORNERS (WHEN NECESSARY) TO ALLOW VENTILATION AT OTHER SIDES OF THE BUILDING. WHEN APPLICABLE (EITHER AT ONE OR TWO BUILDING CORNERS), VERIFY PROPER VENTILATION REQUIREMENTS. IF MIN VENTILATION IS NOT MET, SITE GRADE CONDITION MUST BE RE-GRADED (BY DISTRICT)
5. ALL NAILS SPECIFIED ON THESE PLANS ARE BOX NAILS. COMMON NAILS IS OPTIONAL. WHEN SECURING FOUNDATION PLATE TO PLATE, THE MIN NAIL SHANK DIAMETER TO BE USED IS 0.131

STATE AGENCY APPROVAL

SKC COMPANY
15345 FAIRFIELD RANCH RD - SUITE 160 CHINO HILLS, CA 91709
OFFICE: (909) 740-3120, FAX: (909) 726-9470
WEBSITE: WWW.SKCCOMPANY.COM
MANUFACTURER ##F1275666 DEALER # DL1275666
GC LIC # 992118 SBE CERTIFIED

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DISTRICT/CUSTOMER NAME:
ANTELOPE UNION
HIGH SCHOOL DISTRICT

SCHOOL/SITE NAME:
SOARS
HIGH SCHOOL

SHEET TITLE:

WOOD PAD FOUNDATION DETAILS

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122273 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 10/05/2023

PROFESSIONAL OF RECORD ON PC

ORION
Structural Engineering, Inc.
11305 RANCHO BERNARDO RD SUITE 121
SAN DIEGO CA, 92127
PHONE (858) 679-1974



FIRM: ORION STRUCTURAL ENGINEERING, INC
ADDRESS: 11305 RANCHO BERNARDO ROAD, SUITE 121
CITY: SAN DIEGO, CA 92127
PHONE: (858) 679-1974

PROJECT SPECIFIC PROFESSIONAL OF RECORD

FIRM:
ADDRESS:
CITY:
PHONE:

REVISIONS

1 -
2 -
3 -
4 -
5 -

PROJECT NO.:	00-0000
DRAFTER:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

F1.8

10/2/2023 10:48:50 AM

GENERAL NOTES

GENERAL NOTES:

1. ALL CONSTRUCTION SHALL COMPLY WITH THE 2022 EDITION OF THE CALIFORNIA BUILDING CODE, CCR TITLE 24, PART 2 (CBC) AND CCR TITLE 24, PART 1, CHAPTER 4, GROUP 1, LATEST REVISIONS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE BUILDING DURING CONSTRUCTION AND SHALL PROVIDE ADEQUATE SHORING AND BRACING DURING CONSTRUCTION. CONTRACTOR SHALL COMPLY WITH APPLICABLE SAFETY REGULATIONS
3. DETAILS NOT SPECIFICALLY SHOWN SHALL BE CALLED TO THE ATTENTION OF THE MANUFACTURER OR DESIGN PROFESSIONAL AND DSA.
4. THE CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS. ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE OWNER AND BE RESOLVED BEFORE PROCEEDING WITH THE WORK.
5. NO STRUCTURAL MEMBERS SHALL BE CUT, NOTCHED OR OTHERWISE PENETRATED UNLESS SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER IN ADVANCE OR SHOWN ON THESE DRAWINGS
6. TYPICAL DETAILS SHALL APPLY UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
7. WHERE THESE GENERAL NOTES AND TYPICAL DETAILS ARE IN CONFLICT WITH THE CUSTOMER SPECIFICATIONS, THESE GENERAL NOTES AND TYPICAL DETAILS SHALL GOVERN.
8. PROVIDE OPENINGS, CURBS, FRAMING AND/OR SUPPORTS FOR ITEMS INDICATED ON ARCHITECTURAL, MECHANICAL, ELECTRICAL OR OTHER DRAWINGS INCLUDED IN CONSTRUCTION DOCUMENTS
9. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND OTHER INFORMATION NOT SPECIFICALLY SHOWN ON STRUCTURAL DRAWINGS
10. ALL ELEVATIONS ARE REFERENCED FROM TOP OF FINISHED FIRST FLOOR ELEVATION = 0'-0"
11. PROVIDE INSPECTIONS, TESTS AND REPORTS IN ACCORDANCE WITH CCR TITLE 24, PART 2 AND CCR TITLE 24, PART 1, CHAPTER 4, GROUP 1.
12. IN ADDITION TO CONTINUOUS PROJECT INSPECTION, THE FOLLOWING SPECIAL INSPECTIONS SHALL BE REQUIRED, AS A MINIMUM:
    A. INSPECTION OF ALL WELDING FOR STRUCTURAL STEEL, PER TITLE 24, PART 2, SECTION 1705A.2.
    B. INSPECTION FOR CONCRETE AND CONCRETE REINFORCEMENT PLACEMENT, PER TITLE 24, PART 2, SECTION 1705A.3
13. ALL REQUIRED INSPECTIONS AND TESTS ARE THE RESPONSIBILITY OF THE OWNER. ALL INSPECTORS SHALL PROVIDE REPORTS AS REQUIRED BY TITLE 24, PART 1, CHAPTER 4, GROUP 1
14. DIMENSIONS AND ELEVATIONS SHOWN ARE APPROXIMATE AND ARE PROVIDED AS AN AID IN INTERPRETING THE DRAWINGS ONLY. DIMENSIONS AND ELEVATIONS MUST BE VERIFIED WITH ARCHITECTURAL DRAWINGS. IN THE EVENT OF CONFLICT, DIMENSIONS AND ELEVATIONS SHOWN ON ARCHITECTURAL DRAWINGS SHALL GOVERN. DRAWING SCALES GIVEN ARE APPROXIMATE - DO NOT SCALE PLANS OR DETAILS
15. WHEN MODULE IS RELOCATED - DO NOT REINSTALL NAILS OR SCREWS IN EXISTING HOLES

WOOD:

1. STRUCTURAL FRAMING SHALL BE HEM FIR - LARCH GRADED IN ACCORDANCE WITH THE STANDARD GRADING RULES OF THE WESTERN WOOD PRODUCTS ASSOCIATION OR STANDARD GRADING RULES #17 OF THE WEST COAST LUMBER INSPECTION BUREAU, LATEST EDITIONS. GRADES SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON THE DRAWINGS. (HEM FIR SOUTH IS NOT ALLOWED.) EACH PIECE SHALL BE GRADE MARKED AND NO PIECE MAY FALL BELOW GRADES INDICATED. ALL FRAMING EXCEPT AS NOTED HEM FIR #2
2. PLYWOOD SHALL BE AS SHOWN ON THESE DRAWINGS WITH EXTERIOR GLUE IN ACCORDANCE WITH U.S. PRODUCT STANDARD PS 1-09. ALL PANELS SHALL BE MARKED WITH AN APA GRADE MARK WITH AN IDENTIFICATION INDEX AS SHOWN ON DRAWINGS. USE 4'x8' PANELS, MINIMUM, EXCEPT AT BOUNDARIES AND FRAMING CHANGES WHERE MINIMUM PANEL DIMENSION SHALL BE 24" AT ROOFS AND FLOORS AND 12" AT WALLS.
3. BOLTS FOR TIMBER CONNECTIONS SHALL CONFORM TO ANSI/ASME STANDARD AND 2018 EDITION OF THE NDS. BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF OF THE LATEST EDITION OF THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION BY THE NATIONAL FOREST PRODUCTS ASSOCIATION (NDS). BOLT HOLES SHALL BE 1/32 TO 1/16 INCH LARGER THAN BOLT DIAMETER. RE-TIGHTEN BOLTS BEFORE CLOSING IN WORK. BOLTS SHALL BE FULL BODY STEEL BOLTS WITH MINIMUM YIELD STRENGTH OF 45,000 PSI
4. LAG SCREWS SHALL BE STEEL AND CONFORM TO ANSI/ASME STANDARD AND THE REQUIREMENTS OF THE 2018 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS). HOLES FOR LAG SCREW SHANKS SHALL BE BORED THE SAME DEPTH AND DIAMETER AS THE SHANK. THE REMAINING DEPTH OF PENETRATION OF THE SCREW SHALL BE BORED TO 70% OF THE SHANK DIAMETER. ONE QUARTER INCH (1/4") DIAMETER LAG SCREWS NEED NOT HAVE PRE-DRILLED HOLES IF IT CAN BE SHOWN THAT THE WOOD MEMBERS ARE NOT DAMAGED DURING INSTALLATION. PROVIDE FULL DIAMETER BODY LAG SCREWS WITH BENDING YIELD STRENGTHS PER THE 2018 NDS.
5. PROVIDE MALLEABLE IRON WASHERS OR EQUIVALENT CUT PLATE WASHERS (NOT LESS THAN A STANDARD CUT WASHER) UNDER NUTS AND BOLT OR LAG SCREW HEADS WHICH BEAR ON WOOD.
6. WOOD SCREWS SHALL CONFORM TO ANSI/ASME STANDARD AND THE REQUIREMENTS OF THE 2018 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION BY THE NATIONAL FOREST PRODUCTS ASSOCIATION (NDS). GALVANIZED OR OTHER CORROSION RESISTANT COATING WHERE EXPOSED TO WEATHER OR USED IN FOUNDATIONS. SCREWS SHALL BE STEEL WITH CUT THREADS AND BENDING YIELD STRENGTHS NDS.
7. WOOD MEMBERS SHALL BE CUT OR NOTCHED ONLY AS SHOWN ON STRUCTURAL DRAWINGS.
8. WHEN REQUIRED NAILING TENDS TO SPLIT WOOD MEMBERS, NAIL HOLES SHALL BE PRE-BORED TO 3/4 OF THE NAIL DIAMETER.
9. STRUCTURAL NAILING SHALL BE WITH FULL HEAD COMMON NAILS PER ALL REQUIREMENTS OF THE 2018 NDS. NAILING NOT SPECIFICALLY INDICATED SHALL COMPLY WITH CCR TITLE 24, PART 2, TABLE 2304.10.2. ALL NAILS SHALL BE GALVANIZED OR OTHER CORROSION RESISTANT COATING WHERE EXPOSED TO WEATHER, IN FOUNDATIONS AND AS NOTED ON PLANS, PER THE REQUIREMENTS OF CCR TITLE 24, PART 2, WITH MINIMUM BENDING YIELDS PER THE 2018 NDS. (SEE NAIL EQUIVALENCE BELOW.)
10. NAIL EQUIVALENCE: (PROVIDE MINIMUM NAIL LENGTHS AS REQUIRED FOR SPECIFIED PENETRATION, TYP UNO) 6d EQUALS .113"Ø - PROVIDE 1.36" MIN POINT PENETRATION 8d EQUALS .131"Ø - PROVIDE *1.57" MIN POINT PENETRATION 10d EQUALS .148"Ø - PROVIDE *1.78" MIN POINT PENETRATION 16d EQUALS .162"Ø - PROVIDE *1.94" MIN POINT PENETRATION * 1 1/2" AT 2x MEMBERS
11. EXCEPT WHERE MORE STRINGENT CONSTRUCTION IS SHOWN ON THE DRAWINGS, WOOD CONSTRUCTION SHALL COMPLY WITH TITLE 24, PART 2, SECTION 2308, CONVENTIONAL LIGHT-FRAME CONSTRUCTION PROVISIONS, AS A MINIMUM
12. PRESSURE PRESERVATIVE TREATMENT SHALL BE PER SECTION 2303.1.9, CCR TITLE 24, PART 2. PROVIDE QUALITY MARK ON ALL TREATED FOUNDATION MEMBERS FROM AGENCY LISTED BY AN ACCREDITATION BODY THAT COMPLIES WITH THE REQUIREMENTS OF THE AMERICAN LUMBER STANDARDS TREATED WOOD PROGRAM. ALL FOUNDATION MEMBERS SHALL BE IDENTIFIED PER SECTION 2303.1.9.1. TREAT ALL CUT ENDS OF PRESSURE TREATED MEMBERS WITH AN APPROVED PRESERVATIVE. (WILLARD W/B COPPER GREEN 2% OR AN APPROVED EQUIVALENT). WHERE NOTED, MEMBERS BELOW THE SUB FLOOR THAT ARE NOT A PART OF THE FOUNDATION SHALL BE PRESSURE TREATED. A QUALITY CONTROL STAMP IS NOT REQUIRED FOR STRUCTURAL MEMBERS BELOW THE SUB FLOOR THAT ARE NOT PART OF THE FOUNDATION
13. MACHINE NAILING IS SUBJECT TO APPROVAL BY THE STRUCTURAL ENGINEER OR ARCHITECT AND THE DIVISION OF THE STATE ARCHITECT.
14. POWDER DRIVEN FASTENERS SHALL BE BY HILTI, INC. HILTI FASTENING SYSTEMS - OR EQUAL. INSTALL IN ACCORDANCE WITH DRAWINGS AND THE MANUFACTURER'S RECOMMENDATIONS AND ICC APPROVALS
15. FASTENERS FOR PRESSURE-PRESERVATIVE TREATED AND FIRE-RETARDANT TREATED WOOD SHALL COMPLY WITH SECTION 2304.10.6 OF CBC
16. NAILS AND SPIKES USED IN WET OR EXTERIOR LOCATIONS SHALL COMPLY WITH SECTION 2304.10.2.1 OF CBC

CONCRETE:

1. CONCRETE SHALL DEVELOP A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 3500 PSI AT 28 DAYS IN ACCORDANCE WITH ASTM C31 AND C39. TESTING SHALL BE IN ACCORDANCE WITH 2022 CBC (CCR TITLE 24, PART 2) SECTION 1905A.1.2 AND ACI 318-19 SECTION 5.6. SAMPLES FOR STRENGTH TESTS OF EACH CLASS OF CONCRETE PLACED EACH DAY SHALL BE TAKEN NOT LESS THAN ONCE A DAY, OR NOT LESS THAN ONCE FOR EACH 50 CUBIC YARDS (38.3 m³) OF CONCRETE, OR NOT LESS THAN 2000 SQUARE FEET (186 m²) OF SURFACE AREA FOR SLABS OR WALLS. ADDITIONAL SAMPLES FOR SEVEN-DAY COMPRESSIVE STRENGTH TESTS SHALL BE TAKEN FOR EACH CLASS OF CONCRETE AT THE BEGINNING OF THE CONCRETE WORK OR WHENEVER THE MIX OR AGGREGATE IS CHANGED.
2. CONCRETE THAT WILL BE EXPOSED TO FREEZING AND THAWING, DEICING CHEMICALS OR OTHER EXPOSURE CONDITIONS SHALL COMPLY WITH SECTION 1904A.1, ACI 318-19 SECTION 4.4 &4.5
3. ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF THE 2022 CBC (CCR TITLE 24, PART 2) AND ACI STANDARD 318-19, 2022 EDITION, OF THE AMERICAN CONCRETE INSTITUTE, UNLESS SHOWN OR NOTED OTHERWISE ON THESE DRAWINGS.
4. AGGREGATE SHALL CONFORM TO ASTM C33 FOR NORMAL CONCRETE WEIGHT AND C330 FOR LIGHT WEIGHT CONCRETE AND 2022 CBC SECTION 1903A.
5. CEMENT SHALL BE ASTM C150, TYPE I OR TYPE II (UNO BY GEO-TECHNICAL REPORT)
6. REINFORCING STEEL SHALL BE DEFORMED CONFORMING TO ASTM A615 GRADE 40 UNLESS OTHERWISE NOTED.
7. WELDED WIRE FABRIC REINFORCEMENT SHALL CONFORM TO ASTM A185.
8. WELDING OF REINFORCING STEEL SHALL BE PERFORMED ONLY WHERE INDICATED ON THE DRAWINGS AND SHALL BE IN COMPLIANCE WITH ALL REQUIREMENTS OF THE 2022 CBC AND THE REINFORCING STEEL WELDING CODE, AWS D1.4, LATEST REVISION, OF THE AMERICAN WELDING SOCIETY. PROVIDE WELDING PROCEDURE AND MILL TEST REPORTS FOR ALL REINFORCEMENT TO BE WELDED. REINFORCING WITH C.E. ABOVE .75 SHALL NOT BE WELDED. ARCHITECT SHALL APPROVE WELDING PROCEDURE, WELDER QUALIFICATIONS AND MILL TEST REPORTS PRIOR TO EXECUTION OF WELDING. PROVIDE INSPECTION PER SECTION 1705A.3 AND TABLE 1705A.2.1, TITLE 24, PART 2. REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A706.
9. COVERAGE FOR REINFORCING BARS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2022 CBC AND ACI STANDARD 318-19 UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
10. LAP SPLICES FOR REINFORCING BARS SHALL BE 72 BAR DIAMETERS UNLESS SHOWN OTHERWISE ON THE DRAWINGS. WIRE BARS TOGETHER AT LAPS OR SPLICES. STAGGER LAPS IN ADJACENT HORIZONTAL OR SLOPING REINFORCING BARS A MINIMUM OF THE REQUIRED SPLICE LENGTH. HOOKS AND BENDS SHALL BE ACI 318-19 SECTION 25.3, 25.4 & 25.5 UNLESS SHOWN OTHERWISE. WELDED WIRE FABRIC SHALL BE SPLICED BY LAPPING A MINIMUM OF 12 INCHES OR TWO CROSS WIRES, WHICHEVER IS GREATER
11. CONCRETE SHALL BE PLACED IN ACCORDANCE WITH ASTM C94 AND ACI STANDARD 304. ALSO COMPLY WITH REQUIREMENTS OF ACI 318-19 CHAPTER 19
12. ALL EMBEDDED ITEMS SHALL BE PLACED ACCURATELY AND SECURED PRIOR TO BEGINNING CONCRETE PLACEMENT.
13. CONSTRUCTION JOINTS SHALL BE LOCATED SO AS NOT TO IMPAIR THE STRENGTH OF THE STRUCTURE. CONSTRUCTION JOINTS SHALL COMPLY WITH ACI 318-19 CHAPTER 9. LOCATE CONSTRUCTION JOINTS AS SHOWN ON THE DRAWINGS OR APPROVED IN ADVANCE BY THE STRUCTURAL ENGINEER AND DSA.
14. PROVIDE SHOP DRAWINGS FOR ALL REINFORCING STEEL TO ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO BEGINNING ANY FABRICATION.
15. CONTRACTOR SHALL PREPARE AND SUBMIT CONCRETE MIX DESIGNS TO THE ARCHITECT FOR APPROVAL PRIOR TO PLACEMENT OF ANY CONCRETE. CONCRETE MIX DESIGNS SHALL BE PER 2022 CBC SECTION 1905A.1 AND ACI 318-19 SECTION 19.2, A REGISTERED CIVIL ENGINEER WITH EXPERIENCE IN CONCRETE MIX DESIGN SHALL SELECT THE RELATIVE AMOUNTS OF INGREDIENTS TO BE USED AS BASIC PROPORTIONS OF THE CONCRETE MIXES PROPOSED FOR USE UNDER THIS PROVISION AND TESTING SHALL BE PERFORMED IN A LABORATORY ACCEPTABLE TO THE ENFORCEMENT AGENCY. ALL GROUT SHALL BE NONMETALLIC NON-SHRINK HIGH STRENGTH GROUT BY MASTER BUILDERS OR EQUIVALENT AS APPROVED BY THE ARCHITECT. UTILIZE PRODUCTS RECOMMENDED BY THE MANUFACTURER FOR EACH APPLICATION AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
16. REINFORCING AND EMBEDMENT ITEMS SHALL BE FREE OF EXCESSIVE SCALE OR RUST, DIRT, GREASE, OIL OR ANY OTHER SUBSTANCE THAT WILL IMPAIR BOND WITH CONCRETE.
17. OWNER SHALL PROVIDE INSPECTIONS IN ACCORDANCE WITH CCR TITLE 24 FOR THE PLACEMENT OF CONCRETE AND CONCRETE REINFORCEMENT, FOR BOLTS INSTALLED IN CONCRETE AND FOR SAMPLING CONCRETE. OWNER'S INSPECTOR SHALL PROVIDE INSPECTION REPORTS TO THE ARCHITECT AND THE DIVISION OF THE STATE ARCHITECT.
18. ADDITIONALLY, PROVIDE TESTS AND INSPECTIONS IN ACCORDANCE WITH TITLE 24, PART 2, SECTION 1913A. A PLACING RECORD SHALL BE MAINTAINED FOR ALL CONCRETE PLACED IN THE STRUCTURE.
19. BATCH PLANT INSPECTION, CEMENT AND REINFORCING TESTS ARE NOT REQUIRED. FOR SINGLE-STORY LIGHT FRAMED BUILDINGS AND ISOLATED FOUNDATIONS SUPPORTING EQUIPMENT ONLY WHERE THE SPECIFIED COMPRESSIVE STRENGTH Fc OF THE CONCRETE DELIVERED TO THE JOBSITE IS 2,500 PSI (24.13 MPa) AND WHERE THE Fc USED IN THE DESIGN IS NOT GREATER THAN 3,000 PSI (20.68 MPa). THE QUANTITIES OF CONCRETE MATERIALS SHALL BE CERTIFIED BY A LICENSED WEIGHMASTER AND THE QUALITY OF MATERIALS SHALL BE VERIFIED BY THE OWNER'S TESTING AGENCY.
    A. QUALIFIED TECHNICIAN OF THE TESTING LABORATORY SHALL CHECK THE FIRST BATCH AT THE START OF THE DAY.
    B. LICENSED WEIGHMASTER TO POSITIVELY IDENTIFY MATERIALS AS TO QUANTITY AND CERTIFY TO EACH LOAD BY A BATCH TICKET.
    C. BATCH TICKETS, INCLUDING ACTUAL MATERIAL QUANTITIES AND WEIGHTS SHALL ACCOMPANY THE LOAD AND SHALL BE TRANSMITTED TO THE INSPECTOR OF RECORD BY A TRUCK DRIVER WITH LOAD IDENTIFIED THEREON. THE LOAD SHALL NOT BE PLACED WITHOUT A BATCH TICKET IDENTIFYING THE MIX. THE INSPECTOR WILL KEEP A DAILY RECORD OF PLACEMENTS, IDENTIFYING EACH TRUCK, ITS LOAD, TIME OF RECEIPT AND APPROXIMATE LOCATION OF DEPOSIT IN THE STRUCTURE AND WILL TRANSMIT A COPY OF THE DAILY RECORD TO THE ENFORCEMENT AGENCY.
    COMPLY WITH ALL REQUIREMENTS OF TITLE 24, PART 2, SECTIONS 1705A.3.3.
20. ALL CONCRETE WORK SHALL BE FORMED. CASTING OF FOUNDATION CONCRETE AGAINST SIDES OF FOOTING EXCAVATIONS SHALL NOT BE ALLOWED EXCEPT AS SPECIFICALLY APPROVED BY ARCHITECT, STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT.
21. MAX CONC SLUMP TO BE 4"±1"

CONCRETE FOUNDATION:

1. FOUNDATION BEARING SHALL BE AS APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND THE OWNER'S ARCHITECT. IT IS THE SCHOOL DISTRICT'S RESPONSIBILITY TO PROVIDE ADEQUATE BEARING TO DEVELOP THE ALLOWABLE BEARING PRESSURE NOTED BELOW.
2. CONCRETE FOUNDATIONS ARE DESIGNED FOR A MAXIMUM DEAD PLUS LIVE LOAD ALLOWABLE SOIL BEARING PRESSURE OF 1500 PSF PER CCR TITLE 24, TABLE 1806A.2
3. THE BOTTOM OF ALL FOOTINGS SHALL BE LEVEL. CHANGES IN FOOTING ELEVATIONS SHALL BE MADE UTILIZING THE TYPICAL FOOTING STEP DETAILS ON THESE DRAWINGS.
4. CENTER FOOTINGS UNDER WALLS OR COLUMNS UNLESS OTHERWISE INDICATED ON THESE DRAWINGS.
5. PROVIDE PROPER GRADING OF SITE SUCH THAT WATER DOES NOT POND OR OTHERWISE COLLECT UNDER THE BUILDING.
6. FOUNDATIONS ARE DESIGNED AS PERMANENT FOUNDATIONS IN ACCORDANCE WITH TITLE 24, CHAPTER 18A.
    A. ALL BUILDINGS, PERMANENT OR OTHER RELOCATABLE, ADJACENT TO THESE RELOCATABLE BUILDINGS MUST BE SEPARATED FROM THESE RELOCATABLE BUILDINGS. SEE COVER SHEET FOR MINIMUM SEPARATION REQUIRED

STRUCTURAL STEEL:

1. NOT USED
2. NOT USED
3. NOT USED
4. ALL WELDING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CALIFORNIA BUILDING CODE (CBC) AND THE STRUCTURAL WELDING CODE - STEEL, AWS D1.1, 2018 EDITION OF THE AMERICAN WELDING SOCIETY. WELDING DONE BY SHIELDING ELECTRIC-ARC OR FLUX-CORED PROCESS COMPLYING WITH AWS.
5. FABRICATION AND ERECTION OF STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE 15TH EDITION OF THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) (CBC CHAPTER 22A). ALSO COMPLY WITH REQUIREMENTS OF THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES. TEMPORARY BRACING IS REQUIRED AS NEEDED UNTIL ALL ELEMENTS SHOWN ON STRUCTURAL DRAWINGS ARE IN PLACE.
6. PRIME ALL STEEL SURFACES WITH AN APPROVED PRIMER, EXCEPT SURFACES TO BE EMBEDDED IN CONCRETE AND SURFACES TO RECEIVE FIELD WELDS. TOUCH-UP FIELD WELDS AND OTHER EXPOSED STEEL SURFACES AFTER ERECTION. ALTERNATE: PROVIDE GALVANIZED PER ASTM A-123.
7. PROVIDE TESTS AND INSPECTIONS IN ACCORDANCE WITH CCR TITLE 24, PART 2, SECTION 1705A.2. ALL STEEL SHALL BE PROPERLY IDENTIFIED PER SECTION 2203A.
8. WELDING SHOULD BE IN ACCORDANCE WITH CCR TITLE 24. PART 2, SECTION 1705A.2
9. ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE-RESISTING SYSTEM SHALL BE MADE WITH A FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 ft-lbs AT 0 DEGREES F, AS REQ. BY SEC. 2212A.2.3
10. QUALIFIED AND CERTIFIED WELDERS SHALL BE USED FOR ALL WELDING. ALL WELDING TO CONFORM TO THE 2018 EDITION OF THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE AWS D1.1
11. MATERIALS:

ROLLED STRUCTURAL STEEL SHAPES	ASTM A992
ANGLES, MISC STEEL	ASTM A36
MISCELLANEOUS PLATES	ASTM A-572 GRADE 50
STRUCTURAL STEEL PIPES	ASTM A53 TYPE E OR S, GRADE B
WELDING ELECTRODES	AWS STRUCTURAL STEEL E70XX, REINFORCING STEEL E90XX
ANCHOR BOLTS	ASTM F-1554 GRADE 36
TYPICAL STEEL CONNECTION BOLTS	ASTM F-3125 GRADE A325
MISCELLANEOUS BOLTS	ASTM A-307
GALVANZING	ASTM A-123
RUSH-INHIBITING PRIMER	TT-P-645 ASTM
HSS STEEL COLUMNS	ASTM A-500 GRADE B (Fy = 46 KSI)

12. CONNECTED MEMBERS SHALL BEAR ONLY UPON UNTHREADED PORTIONS OF BOLTS
13. BURNING OF HOLES IS NOT ALLOWED
14. INSPECTION OF WELDING SHALL CONFORM TO CBC REQUIREMENTS (CHAPTER 17A)
15. THE STRUCTURAL STEEL FABRICATOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION
16. BOLT HOLES SHALL BE 1/16" LARGER IN DIAMETER THAN NOMINAL SIZE OF BOLTS USED, UNO

PAD FOUNDATIONS: (RESTRAINED)

1. FOUNDATION BEARING SHALL BE AS APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AND THE OWNER'S ARCHITECT. IT IS THE SCHOOL DISTRICT'S RESPONSIBILITY TO PROVIDE ADEQUATE BEARING TO DEVELOP THE ALLOWABLE BEARING PRESSURE NOTED BELOW
2. FOUNDATIONS ARE DESIGNED FOR A MAXIMUM DEAD PLUS LIVE LOAD ALLOWABLE SOIL BEARING PRESSURE OF 1000 PSF, AS PER IR 16-1
3. THE BOTTOM OF ALL FOOTINGS SHALL BE LEVEL. CHANGES IN FOOTING ELEVATIONS SHALL BE MADE UTILIZING THE FOOTING SHIM DETAILS ON THESE DRAWINGS
4. CENTER FOOTINGS UNDER WALLS OR COLUMNS UNLESS OTHERWISE INDICATED ON THESE DRAWINGS
5. PROVIDE PROPER GRADING OF SITE SUCH THAT WATER DOES NOT POND OR OTHERWISE COLLECT UNDER THE BUILDING.
6. VERIFY THAT NO PIPES, UTILITIES, OR OTHER SUCH ITEMS OCCUR BELOW FOOTINGS.
7. FOUNDATIONS ARE DESIGNED AS "RESTRAINED FOUNDATION", IN ACCORDANCE WITH IR 16-1.16, SUBSTANDARD FOUNDATIONS
    a. ANCHOR FOOTINGS AT BUILDING PERIMETER WITH 1"Ø HOT DIPPED GALVANIZED STANDARD WEIGHT STEEL PIPES DRIVEN FLUSH WITH TOP OF WOOD FOUNDATION PADS AND PENETRATING SOIL 12" MINIMUM AT A MAXIMUM SPACING OF 10'-0" OC AT SIDEWALLS AND 2'-0" FROM EACH CORNER IN BOTH DIRECTIONS
    b. STAIRS AND RAMPS SHALL BE PROPERLY ANCHORED TO BUILDING TO PREVENT SEPARATION
    c. ALL BUILDINGS, PERMANENT OR OTHER RELOCATABLE, ADJACENT TO THESE RELOCATABLE BUILDINGS MUST BE SEPARATED FROM THESE RELOCATABLE BUILDINGS BY 4 1/2" MINIMUM
8. FINISH GRADES SHALL BE WITHIN MAX 18" BELOW BOTTOM OF FLOOR JOISTS WITHOUT EXCEPTION
9. THE TIE PLATE WHICH ATTACHES THE FLOOR BEAM TO THE WOOD FOUNDATION AND THAT IS EXPOSED TO THE WEATHER IS TO BE GALVANIZED. TEK SCREWS THAT ATTACH THE TIE PLATE TO THE FLOOR BEAM ARE TO BE HOT-DIPPED GALVANIZED. ANCHOR BOLTS AND MECHANICAL EXPANSION ANCHORS WHICH ARE EXPOSED TO THE WEATHER ARE TO BE PAINTED WITH ZINC-BASED PAINT
10. UNDER-FLOOR CLEARANCE - UNDER FLOOR CLEARANCE AND THE TREATMENT OF WOOD MEMBERS (INCLUDING THE FLOOR SHEATHING) IN CLOSE PROXIMITY TO EXPOSED GROUND SHALL MEET THE REQUIREMENTS OF CBC SECTION 2304.12.1.1. IF A RAT SLAB IS PROVIDED WITHIN THE PERIMETER OF THE FOUNDATION OR THE BUILDING IS PLACED ON PAVEMENT, THE MINIMUM CLEARANCE REQUIREMENTS OF CBC SECTION 2304.12.1.1 FOR PROVIDING NATURALLY DURABLE OR PERSERVATIVE-TREATMENT WOOD NOT BE MET

ACCEPTABLE FASTENERS / ICC REPORTS:

SHOT PIN THROUGH LIGHTWEIGHT CONCRETE: ICC REPORT #ESR-2269. ALTERNATE SHOT PIN #ESR-1752
SHOT PIN THROUGH LIGHT GAUGE STEEL: ICC REPORT #ESR-2961
WOOD/METAL JAMB STUDS TO STEEL COLUMN: ICC REPORT #ESR-2269

SELF-TAPPING SCREWS	SECT 3.2.12 ASTM C1513
SELF-DRILLING SCREWS	SECT 3.2.9 ASTM C1513
SELF-PIERCING SCREWS	SECT 3.2.9 ASTM C1513

REFERENCE ASTM C1513, STANDARD SPECIFICATION FOR TAPPING SCREWS FOR COLD-FORMED STEEL FRAMING CONNECTION

REFERENCE AISI S400-20/ S1-09 , NORTH AMERICAN STANDARD FOR SEISMIC DESIGN

FASTENERS MANUFACTURED WITH CARBON STEEL WIRE SHALL CONFORM TO ASTM A510

TESTING - THE OPERATOR, TOOL, AND FASTENER SHALL BE PRE-QUALIFIED BY THE PROJECT INSPECTOR. HE SHALL OBSERVE THE TESTING OF THE FIRST 10 FASTENER INSTALLATIONS. A TEST "PULL-OUT" LOAD OF NOT LESS THAN TWICE THE DESIGN LOAD SHALL BE APPLIED TO THE PIN IN SUCH A MANNER AS NOT TO RESIST THE SPALLING TENDENCY OF THE CONCRETE SURROUNDING THE PIN. THEREAFTER, RANDOM TEST UNDER THE PROJECT INSPECTOR'S SUPERVISION SHALL BE MADE OF APPROXIMATELY 1 IN 10 PINS. IF ANY PIN FAILS TESTING, TEST ALL PINS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE PASS, THEN RESUME THE INITIAL TESTING FREQUENCY.

MACHINE APPLIED NAILING:

USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOBSITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL BY THE PROJECT ARCHITECT OR STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. MACHINE NAILING WILL NOT BE APPROVED IN 5/16" PLYWOOD. IF NAILHEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY AND MACHINE NAILING SHALL BE DISCONTINUED.

COLD FORMED STRUCTURAL STEEL:

1. ALL LIGHT GAUGE METAL FRAMING SHALL BE THE TYPE, SIZE AND GAUGE AS SHOWN ON THE PLANS AND BE FABRICATED AND ERECTED IN ACCORDANCE WITH LATEST ADOPTED AISI SPECIFICATIONS
2. ALL GALVANIZED STUDS, TRACKS, AND OR JOISTS 12, 14, AND 16 GAUGE SHALL CONFORM TO ASTM A653, SS GRADE 50 (Fy = 50 KSI) AND ASTM A653, SS GRADE 33 (Fy = 33 KSI) FOR 18 AND 20 GAUGE UNO
3. CORROSION PROTECT PER TABLE A4-1 BELOW
4. GALVANIZED COATINGS MUST MEET ASTM A-525 SPECIFICATIONS
5. CARBON SHEET STEEL MUST MEET THE MINIMUM REQUIREMENTS OF ASTM A-1011 GRADE 55 KSI FOR 10, 12, 14, AND 16 GAUGE AND GRADE 33 KSI FOR 18 GAUGE AND LIGHT MEMBERS UON. CARBON SHEET STEEL PRODUCTS MUST BE THOROUGHLY COATED WITH A RUST INHIBITIVE PAINT.
6. ALL STRUCTURAL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH AMERICAN IRON AND STEEL INSTITUTE (AISI) NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STRUCTURAL STEEL MEMBERS LATEST ADOPTED EDITION (AISI S100-16).
7. METAL STUDS AND OR JOIST:
    A. FOR METAL STUD WALLS, UNLESS OTHERWISE SHOWN ON THE DRAWINGS, PROVIDE STAU NDARD PUNCHED STEEL MEMBERS OF THE GAUGES SHOWN ON THE DRAWINGS.
    B. USE ONLY ONE TYPE THROUGHOUT THE WORK, UNLESS OTHERWISE NOTED ON THE DRAWINGS OR SPECIFICALLY APPROVED IN ADVANCE BY THE ARCHITECT/ENGINEER
8. PROVIDE ALL ACCESSORIES INCLUDING, BUT NOT NECESSARILY LIMITED TO, TRACKS, CLIPS, WEB STIFFENERS, ANCHORS, FASTENING DEVICES, RESILIENT CLIPS AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE AND PROPER INSTALLATION, AND AS RECOMMENDED BY THE MANUFACTURER FOR THE STEEL MEMBERS USED
9. FASTENINGS OF COMPONENTS SHALL BE WITH SELF-DRILLINGS SCREWS OR WELDING. SCREWS OR WELDS SHALL BE SUFFICIENT SIZE TO INSURE THE STRENGTH OF THE CONNECTION. ALL WELDS OF GALVANIZED STEEL SHALL BE TOUCHED UP WITH ZINC-RICH PAINT. ALL WELDS OF CARBON SHEET STEEL SHALL BE TOUCHED UP WITH PAINT
10. ALL METAL STUDS SHALL BE BY SSMA APPROVED SUPPLIED, ICC ERS-4205. ALTERNATE METAL STUDS MUST BE OF EQUAL OR GREATER SECTIONS PROPERTIES AND SHALL BE APPROVED BY THE ENGINEER
11. PROVIDE SHOP DRAWINGS INDICATING MEMBERS GAUGES, SHAPES, SIZES, SPACING, LOCATIONS AND CONNECTIONS
12. STUDS SHALL BE INSTALLED WITH THEIR BEARING ENDS POSITIONED FLUSH AGAINST THE INSIDE TRACK WEB.
13. FULL-HEIGHT DOUBLE STUDS SHALL BE PROVID

GENERAL NOTES

1. ALL WORK SHALL CONFORM TO 2022 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
2. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISIONS OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR
3. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR
4. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TEST AND INSPECTIONS FOR THE PROJECT
5. THIS PC IS NOT APPROVED FOR CHAPTER 7A WILDLAND URBAN AREAS. WHEN THIS PC IS SITE ADAPTED FOR PROJECT SPECIFIC, THE REQUIREMENTS IS TO BE REVIEWED AND APPROVED BY THE PROJECT SPECIFIC PLAN REVIEWER

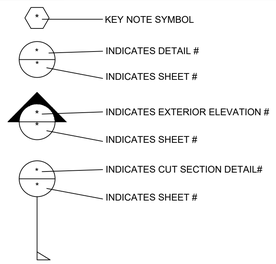
BUILDING CODES AND STANDARDS

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24, CCR
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, CCR
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24, CCR
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, CCR
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, CCR)
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24, CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, CCR
2022 CALIFORNIA EXISTING BUILDING STANDARDS CODE (CEBC), PART 10, TITLE 24
2022 CALIFORNIA GREEN BUILDING STANDARD CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHALL REGULATIONS

SKC COMPANY
15345 FAIRFIELD RANCH RD - SUITE 160 CHINO HILLS, CA 91709
OFFICE: (909) 740-3120, FAX: (909) 726-9470
WEBSITE: WWW.SKCCOMPANY.COM
MANUFACTURER #MF1279666 DEALER # DL1279666
GC LIC # 992118 SBE CERTIFIED

2022 CBC
ACCESSIBLE RAMP / LANDING / STAIR PC DESIGN (LESS THAN 30" SYSTEM)
RISK CATEGORY II
PC 04-122029

DRAWING SYMBOLS & LEGEND



SHEET INDEX

SHEET NO.	ARCHITECTURAL
R-1	COVER SHEET
R-2	DSA 103 TEST & SPECIAL INSPECTIONS SAMPLE
R-3	CONSTRUCTION SPECIFICATIONS & NOTES
~~R-4~~	~~STANDARD RAMP & LANDING (ATTACHED HANDRAIL TO BUILDING)~~
~~R-5~~	~~OFFSET RAMP & LANDING (FREE STANDING HANDRAILS)~~
R-6	COMMON LANDING & RAMP
~~R-7~~	~~STAIR & LANDING DETAILS~~
~~R-8~~	~~SWITCHBACK RAMP & LANDING~~
R-9	RAMP & LANDING DETAILS

TOTAL SHEET COUNT: ~~9~~ 5

DESIGN PARAMETERS

1. RAMP LIVE LOAD: 100 PSF
2. NO SNOW LOAD (GROUND SNOW LOAD Pg= 0 psf)
3. NO FLOOD LOADING
4. WIND:
   WIND DESIGN PER ASCE 7-16, CHAPTER 29
   SEE SCHEDULE BELOW FOR SITE SPECIFIC PARAMETERS
5. SEISMIC:
   RISK CATEGORY=II
   R = 1.25 (ASCE 7-16 TABLE 15.4-2)
   Ie = 1.0
   SITE CLASS = A,B, OR D
   Ss = 2.41
   Fa = 1.0
   S_{DS} = 1.61
   S_1 = 1.4

   SITE CLASS = C, OR D (DEFAULT)
   Ss = 2.01
   Fa = 1.2
   S_{DS} = 1.61
   S_1 =1.4
   C_s = 1.93
6. ALLOWABLE SOIL BEARING = 1000 PSF

SITE SPECIFIC PARAMETERS

INSTRUCTIONS: DESIGN PROFESSIONAL SHALL CHECK THE APPROPRIATE SELECTION BOXES BELOW AND ENTER THE DESIGN PARAMETERS APPLICABLE TO THE SPECIFIC PROJECT SITE

WIND

V = 95 MPH < 95 MPH BASIC DESIGN WIND SPEED

Kzt = 1.0 ≤ 1.0

EXPOSURE: ☒ C ☐ D

SEISMIC

SELECT ONE

☒ DESIGN BASED ON SITE CLASS D DEFAULT
NO GEOTECHNICAL INVESTIGATION REQUIRED
Ss = 1.502 Fa = 1.2

☐ DESIGN BASED ON SITE CLASS DETERMINED PER CHAPTER 20 OF ASCE 7-16
GEOTECHNICAL INVESTIGATION PROVIDED
SITE CLASS: ☐ C ☐ D ☐ E
Ss = _____ Fa = _____ PER ASCE 7-16 SUPPL 3 TABLE 11.4-1

☐ DESIGN BASED ON SITE CLASS GROUND MOTION HAZARD ANALYSIS PER CHAPTER 21 OF ASCE 7-16
SHORT-PERIOD DESIGN SPECTRAL RESPONSE PARAMETER, S_{DS}, SHALL BE AS SPECIFIED IN GEOTECHNICAL INVESTIGATION
CGS APPROVAL REQUIRED
NOT ELIGIBLE FOR OTC REVIEW
SITE CLASS: ☐ C ☐ D ☐ E
Ss = _____ Fa = _____

S_{DS} = 2/3 Fa Ss= 1.200 < 1.607

Cs = 1.607 USED IN DESIGN
SEISMIC DESIGN CATEGORY: ☐ D ☒ E
ASCE 7-16 12.8.1.3 HAS NOT BEEN USED IN CALCULATION OF Sds

PC LIMITATIONS

1. THE MAXIMUM DECK HEIGHT DESIGNED ON THIS PC IS 30". VERIFY WITH BUILDING MANUFACTURER MAXIMUM FINISH FLOOR HEIGHT FOR ABOVE GRADE FOUNDATIONS. THE MAXIMUM DECK HEIGHT SHALL BE SET FORTH PER THE BUILDING MANUFACTURER MAXIMUM FINISH FLOOR HEIGHT HOWEVER NOT TO EXCEED 30" MAX
2. THE MAXIMUM RAMP HANDRAIL DESIGN ON THIS PC IS 34" AFF
3. THIS PC IS NOT DESIGNED FOR DECKS HIGHER THAN 30" OR A GUARDRAIL DESIGN AT 42" MIN WHEN DECK HEIGHT EXCEEDS 30"
4. THE MINIMUM POINT LOAD DESIGNED ON THE HANDRAILS IS 200#
5. THE RAMP CLEAR WIDTH SET FORTH ON THIS PC IS DESIGNED FOR OCCUPANCIES LESS THAN 100 (OR NO GREATER THAN 48" CLEAR WIDTH)
6. THE STAIRS MAXIMUM CLEAR WIDTH SET FORTH ON THIS PC IS 48" MAX
7. THE MAXIMUM RAMP LENGTH SET FORTH ON THIS PC IS 30'-0" MAX
8. THE MAXIMUM SINGLE DECK SECTION SET FORTH ON THIS PC IS 6'-6" X 19'-10 1/2". ADDITIONAL DECK SECTIONS CAN BE ADDED TOGETHER (SEE #8/R-9) ON ANY SIDE OF THE DECK. THE MINIMUM DECK SECTION IS SHALL BE NO LESS THAN 4'-0" X 1'-0"
9. **THE DESIGN PROFESSIONAL HAS EXEMPTED THIS RAMP FROM SPECIAL INSPECTION REQUIREMENTS FOR MATERIAL IDENTIFICATION AND STRUCTURAL WELDING. RAMP SHALL NOT BE MODIFIED NOR HAVE SHIMS ADDED CAUSING THE DISTANCE BETWEEN THE HIGHEST RAMP WALKING SURFACE AND THE ADJACENT GRADE TO BE MORE THAN 30" INCHES. IF THIS CONDITION IS NOT MET, STRUCTURAL TESTING AND/OR INSPECTION WILL BE REQUIRED TO VERIFY MATERIALS AND STRUCTURAL WELDING. THIS APPLIES TO SCOPE OF WORK INCLUDING NEW CONSTRUCTION, ALTERATION, OR RELOCATION OF RAMP. REFER TO DSA 103 APPENDIX, IR PC-2 AND IR PC-6**
10. RAMP SLOPE SHALL NOT BE LESS THAN 1:12 (OR GREATER THAN 8.33% MAX). RAMP SLOPE GRATER THAN 1:20 (OR LESS THAN 5.0%) DOES NOT NEED TO COMPLY WITH HANDRAIL REQUIREMENTS

STATE AGENCY APPROVAL

SKC COMPANY
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DISTRICT/CUSTOMER NAME:
ANTELOPE UNION
HIGH SCHOOL DISTRICT

SCHOOL/SITE NAME:
SOARS
HIGH SCHOOL

SHEET TITLE:
COVER SHEET

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122029 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/27/2023

PROFESSIONAL OF RECORD ON PC

ORION
Orion Structural Engineering, Inc.
11305 RANCHO BERNARDO RD SUITE 121
SAN DIEGO CA, 92127
PHONE (858) 679-1974
REGISTERED PROFESSIONAL ENGINEER
RYAN J. ORION
No. 32127
EXP. 12/31/24
STRUCTURAL
STATE OF CALIFORNIA

FIRM: ORION STRUCTURAL ENGINEERING, INC.
ADDRESS: 11305 RANCHO BERNARDO ROAD, SUITE 121
CITY: SAN DIEGO, CA 92127
PHONE: (858) 679-1974

PROJECT SPECIFIC PROFESSIONAL OF RECORD

FIRM:
ADDRESS:
CITY:
PHONE:

REVISIONS

1 -
2 -
3 -
4 -
5 -

PROJECT NO.:	00-0000
DRAFTER:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

R-1

9/26/2023 9:27:23 AM

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC

Application Number:	School Name:	School District:
04-122029	Accessible Ramp Landing Stair PC	SKC Company
DSA File Number:	Increment Number:	Date Created:
PC-116		2023-02-20 13:43:59

2022 CBC

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).

**NOTE: Undefined section and table references found in this document are from the CBC, or California Building Code.

KEY TO COLUMNS

1. TYPE	2. PERFORMED BY
Continuous – Indicates that a continuous special inspection is required Periodic – Indicates that a periodic special inspection is required Test – Indicates that a test is required	GE (Geotechnical Engineer) – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative. LOR (Laboratory of Record) – Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335. PI (Project Inspector) – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA. SI (Special Inspection) – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (OTHER), 2022 CBC

Application Number:	School Name:	School District:
04-122029	Accessible Ramp Landing Stair PC	SKC Company
DSA File Number:	Increment Number:	Date Created:
PC-116		2023-02-20 13:43:59

	X1. OTHER:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Load test for identified product(s):	Test	LOR	1709A.2, 1709A.3. Testing is not required for: 1) a product with a valid evaluation service report per DSA IR A-5, or 2) a product that can be justified by structural calculation.
☐	b. Installation torque for non-HS bolts	Continuous	SI*	Applicable to communication towers identified as Essential Service Facility Projects (ESFP). Calibrated wrench use required, verified by SI during installation. DSA Policy PL 18-01: Communication Towers, Poles and Buildings Utilized by State Agencies for Essential Services Communications.*EXCEPTION: Non-ESFP may use PI without need for notification to DSA.
☐	c.			

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

Application Number:	School Name:	School District:
04-122029	Accessible Ramp Landing Stair PC	SKC Company
DSA File Number:	Increment Number:	Date Created:
PC-116		2023-02-20 13:43:59

Exempt items given in DSA IR A-22 or the 2019 CBC (including DSA amendments) and those items identified below with a check mark by the design professional are NOT subject to DSA requirements for the structural tests / special inspections noted. Items marked as exempt shall be identified on the approved construction documents. The project inspector shall verify all construction complies with the approved construction documents.

	SOILS:
☐	1. Deep foundations acting as a cantilever footing with a design based on minimum allowable pressures per CBC Table 1806A.2 and without a geotechnical report for the following cases: A) free standing sign or scoreboard, B) cell or antenna towers and poles less than 35'-0" tall (e.g., lighting poles, flag poles, poles supporting open mesh fences, etc.), C) single-story structure with dead load less than 5 psf (e.g., open fabric shade structure), or D) covered walkway structure with an apex height less than 10'-0" above adjacent grade.
☐	2. Shallow foundations, etc. are exempt from special inspections and testing by a Geotechnical Engineer for the following cases: A) buildings without a geotechnical report and meeting the exception item #1 criteria in CBC Section 1803A.2 supported by native soil (any excavation depth) or fill soil (not exceeding 12" depth per CBC Section 1804A.6), B) soil scarification/recompaction not exceeding 12" depth, C) native or fill soil supporting exterior non-structural flatwork (e.g., sidewalks, site concrete ramps, site stairs, parking lots, driveways, etc.), D) unpaved landscaping and playground areas, or E) utility trench backfill.

	CONCRETE/MASONRY:
☐	1. Post-installed anchors for the following: A) exempt non-structural components (e.g., mechanical, electrical, plumbing equipment - see item 7 for "Welding" in the Appendix below) given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) or B) interior nonstructural wall partitions meeting criteria listed in exempt item 3 for "Welding" in the Appendix below
☐	2. Concrete batch plant inspection is not required for items given in CBC Section 1705A.3.3.2 subject to the requirements and limitations in that section.
☐	3. Non-bearing non-shear masonry walls may be exempt from certain DSA masonry testing and special inspection items as allowed per DSA IR 21-1. Refer to construction documents for specific exemptions accordingly for each applicable wall condition.
☐	4. Epoxy shear dowels in site flatwork and/or other non-structural concrete.

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

Application Number:	School Name:	School District:
04-122029	Accessible Ramp Landing Stair PC	SKC Company
DSA File Number:	Increment Number:	Date Created:
PC-116		2023-02-20 13:43:59

	CONCRETE/MASONRY:
☐	5. Testing of reinforcing bars is not required for items given in CBC Section 1910A.2 subject to the requirements and limitations in that section.

	WELDING:
☐	1. Solid-clad and open-mesh fences, gates with maximum leaf span of 10', and gates with a maximum rolling section of 10' all having an apex height less than 8'-0" above lowest adjacent grade. When located above circulation or occupied space below, these gates/fences are not located within 1.5x gate/fence height (max 8'-0") to the edge of floor or roof.
☑	2. Handrails, guardrails, and modular or relocatable ramps associated with walking surfaces less than 30" above adjacent grade (excluding post base connections per the 'Exception' language in Section 1705A.2.1); fillet welds shall not be ground flush.
☐	3. Non-structural interior cold-formed steel framing spanning less than 15'-0", such as in interior partitions, interior soffits, etc. supporting only self weight and light-weight finishes or adhered tile, masonry, stone, or terra cotta veneer no more than 5/8" thickness and apex less than 20'-0" in height and not over an exit way. Maximum tributary load to a member shall not exceed the equivalent of that occurring from a 10'x10' opening in a 15' tall wall for a header or king stud.
☐	4. Manufactured support frames and curbs using hot rolled or cold-formed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment weighing less than 2000# (equipment only) (connections of such frames to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).
☐	5. Manufactured components (e.g., Tolco, B-Line, Afcon, etc.) for mechanical, electrical, or plumbing hanger support and bracing (connections of such components to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).
☐	6. TV Brackets, projector mounts with a valid listing (see DSA IR A-5) and recreational equipment (e.g., playground structures, basketball backstops, etc.) (connections of such elements to superstructure elements using welding will require special inspection as noted in selected item(s) for sections S/A3, S/A4 and/or S/A5 located in the Steel/Aluminum category of listing above).
☐	7. Any support for exempt non-structural components given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) meeting the following: A) when supported on a floor/roof, <400# and resulting composite center of mass (including component's center of mass) ≤4' above supporting floor/roof, B) when hung from a wall or roof/floor, <20# for discrete units or <5 plf for distributed systems.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS(SIGNATURE), 2022 CBC

Application Number:	School Name:	School District:
04-122029	Accessible Ramp Landing Stair PC	SKC Company
DSA File Number:	Increment Number:	Date Created:
PC-116		2023-02-20 13:43:59

Name of Architect or Engineer in general responsible charge:

Name of Structural Engineer (When structural design has been delegated):

Signature of Architect or Structural Engineer: Date:

Note: To facilitate DSA electronic mark-ups and identification stamp application, DSA recommends against using secured electronic or digital signatures.

DSA STAMP

DSA 103-22: LIST OF REQUIRED VERIFIED REPORTS, CBC 2022

Application Number:	School Name:	School District:
04-122029	Accessible Ramp Landing Stair PC	SKC Company
DSA File Number:	Increment Number:	Date Created:
PC-116		2023-02-20 13:43:59

THE SAMPLE DSA 103 FORMS SHOWN ON THIS SHEET ARE FOR ILLUSTRATION PURPOSES ONLY. A SEPARATE DSA 103 FORM IS TO BE COMPLETED FOR EACH PROJECT SPECIFIC APPLICATION THAT THIS PC IS BEING INCORPORATED INTO. THE DSA 103 FORM IS TO BE COMPLETED BY THE ARCHITECT OF RECORD FOR THE OVERALL SCOPE OF WORK ON THE PROJECT SPECIFIC APPLICATION. MODULAR BUILDING MANUFACTURER (OR DESIGN BUILD CONTRACTOR) IS ONLY RESPONSIBLE FOR COMPLETING DSA103 FORM ON STOCKPILE PROJECTS. THE SAMPLE DSA 103 FORM SHALL BE CROSSED OUT ON THIS DRAWING.

STATE AGENCY APPROVAL

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DISTRICT/CUSTOMER NAME:
ANTELOPE UNION HIGH SCHOOL DISTRICT

SCHOOL/SITE NAME:
SOARS HIGH SCHOOL

SHEET TITLE:
DSA 103
TEST & SPECIAL INSPECTIONS SAMPLE

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122029 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/27/2023

PROFESSIONAL OF RECORD ON PC

ORION
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STATE OF CALIFORNIA

FIRM: ORION STRUCTURAL ENGINEERING, INC.
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CITY: SAN DIEGO, CA 92127
PHONE: (858) 679-1974

PROJECT SPECIFIC PROFESSIONAL OF RECORD

FIRM:
ADDRESS:
CITY:
PHONE:

REVISIONS

1	-
2	-
3	-
4	-
5	-

PROJECT NO.:	00-0000
DRAFTER:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER
R-2

9/26/2023 9:27:48 AM

GENERAL NOTES

GENERAL NOTES:

1. ALL CONSTRUCTION SHALL COMPLY WITH THE 2022 EDITION OF THE CALIFORNIA BUILDING CODE, CCR TITLE 24, PART 2 (CBC) AND CCR TITLE 24, PART 1, CHAPTER 4, GROUP 1, LATEST REVISIONS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE BUILDING DURING CONSTRUCTION AND SHALL PROVIDE ADEQUATE SHORING AND BRACING DURING CONSTRUCTION. CONTRACTOR SHALL COMPLY WITH APPLICABLE SAFETY REGULATIONS
3. DETAILS NOT SPECIFICALLY SHOWN SHALL BE CALLED TO THE ATTENTION OF THE MANUFACTURER OR DESIGN PROFESSIONAL AND DSA.
4. THE CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS. ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE OWNER AND BE RESOLVED BEFORE PROCEEDING WITH THE WORK.
5. NO STRUCTURAL MEMBERS SHALL BE CUT, NOTCHED OR OTHERWISE PENETRATED UNLESS SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER IN ADVANCE OR SHOWN ON THESE DRAWINGS
6. TYPICAL DETAILS SHALL APPLY UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
7. WHERE THESE GENERAL NOTES AND TYPICAL DETAILS ARE IN CONFLICT WITH THE CUSTOMER SPECIFICATIONS, THESE GENERAL NOTES AND TYPICAL DETAILS SHALL GOVERN.
8. NOT USED
9. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND OTHER INFORMATION NOT SPECIFICALLY SHOWN ON STRUCTURAL DRAWINGS
10. ALL ELEVATIONS ARE REFERENCED FROM TOP OF FINISHED FIRST FLOOR ELEVATION = 0'-0"
11. NOT USED
12. NOT USED
13. DIMENSIONS AND ELEVATIONS SHOWN ARE APPROXIMATE AND ARE PROVIDED AS AN AID IN INTERPRETING THE DRAWINGS ONLY. DIMENSIONS AND ELEVATIONS MUST BE VERIFIED WITH ARCHITECTURAL DRAWINGS. IN THE EVENT OF CONFLICT, DIMENSIONS AND ELEVATIONS SHOWN ON ARCHITECTURAL DRAWINGS SHALL GOVERN. DRAWING SCALES GIVEN ARE APPROXIMATE - DO NOT SCALE PLANS OR DETAILS
14. NOT USED

WOOD:

1. STRUCTURAL FRAMING SHALL BE HEM FIR GRADED IN ACCORDANCE WITH THE STANDARD GRADING RULES OF THE WESTERN WOOD PRODUCTS ASSOCIATION OR STANDARD GRADING RULES #17 OF THE WEST COAST LUMBER INSPECTION BUREAU, LATEST EDITIONS. GRADES SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON THE DRAWINGS. (HEM FIR NORTH IS NOT ALLOWED.) EACH PIECE SHALL BE GRADE MARKED AND NO PIECE MAY FALL BELOW GRADES INDICATED.
   ALL FRAMING EXCEPT AS NOTED HEM FIR #2
2. PLYWOOD SHALL BE AS SHOWN ON THESE DRAWINGS WITH EXTERIOR GLUE IN ACCORDANCE WITH U.S. PRODUCT STANDARD PS 1-19. ALL PANELS SHALL BE MARKED WITH AN APA GRADE MARK WITH AN IDENTIFICATION INDEX AS SHOWN ON DRAWINGS.
3. LAG SCREWS SHALL BE STEEL AND CONFORM TO ANSI/ASME STANDARD B18.2.1 AND THE REQUIREMENTS OF THE 2018 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS). HOLES FOR LAG SCREW SHANKS SHALL BE BORED THE SAME DEPTH AND DIAMETER AS THE SHANK. THE REMAINING DEPTH OF PENETRATION OF THE SCREW SHALL BE BORED TO 70% OF THE SHANK DIAMETER. ONE QUARTER INCH (1/4") DIAMETER LAG SCREWS NEED NOT HAVE PRE-DRILLED HOLES IF IT CAN BE SHOWN THAT THE WOOD MEMBERS ARE NOT DAMAGED DURING INSTALLATION. PROVIDE FULL BODY DIAMETER LAG SCREWS WITH BENDING YIELD STRENGTHS PER THE 2018 NDS.
4. PROVIDE MALLEABLE IRON WASHERS OR EQUIVALENT CUT PLATE WASHERS (NOT LESS THAN A STANDARD CUT WASHER) UNDER NUTS AND BOLT OR LAG SCREW HEADS WHICH BEAR ON WOOD.
5. WOOD SCREWS SHALL CONFORM TO ANSI/ASME STANDARD B18.6.1 AND THE REQUIREMENTS OF THE 2018 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS). GALVANIZED OR OTHER CORROSION RESISTANT COATING WHERE EXPOSED TO WEATHER OR USED IN FOUNDATIONS. SCREWS SHALL BE STEEL WITH CUT THREADS AND BENDING YIELD STRENGTHS NDS.
6. WOOD MEMBERS SHALL BE CUT OR NOTCHED ONLY AS SHOWN ON STRUCTURAL DRAWINGS.
7. WHEN REQUIRED NAILING TENDS TO SPLIT WOOD MEMBERS, NAIL HOLES SHALL BE PRE-BORED TO 3/4 OF THE NAIL DIAMETER.
8. STRUCTURAL NAILING SHALL BE WITH FULL HEAD COMMON NAILS PER ALL REQUIREMENTS OF THE 2018 NDS. NAILING NOT SPECIFICALLY INDICATED SHALL COMPLY WITH CCR TITLE 24, PART 2, TABLE 2304.10.2. ALL NAILS SHALL BE GALVANIZED OR OTHER CORROSION RESISTANT COATING WHERE EXPOSED TO WEATHER, IN FOUNDATIONS AND AS NOTED ON PLANS, PER THE REQUIREMENTS OF CCR TITLE 24, PART 2, WITH MINIMUM BENDING YIELDS PER THE 2018 NDS. (SEE NAIL EQUIVALENCE BELOW.)
9. NAIL EQUIVALENCE: (PROVIDE MINIMUM NAIL LENGTHS AS REQUIRED FOR SPECIFIED PENETRATION, TYP UNO) 6d EQUALS .113"Ø - PROVIDE 1.36" MIN POINT PENETRATION 8d EQUALS .131"Ø - PROVIDE *1.57" MIN POINT PENETRATION 10d EQUALS .148"Ø - PROVIDE *1.78" MIN POINT PENETRATION 16d EQUALS .162"Ø - PROVIDE *1.94" MIN POINT PENETRATION * 1 1/2" AT 2x MEMBERS
10. EXCEPT WHERE MORE STRINGENT CONSTRUCTION IS SHOWN ON THE DRAWINGS, WOOD CONSTRUCTION SHALL COMPLY WITH TITLE 24, PART 2, SECTION 2308, CONVENTIONAL LIGHT-FRAME CONSTRUCTION PROVISIONS, AS A MINIMUM
11. PRESSURE PRESERVATIVE TREATMENT SHALL BE PER SECTION 2303.1.9, CCR TITLE 24, PART 2. PROVIDE QUALITY MARK ON ALL TREATED FOUNDATION MEMBERS FROM AGENCY LISTED BY AN ACCREDITATION BODY THAT COMPLIES WITH THE REQUIREMENTS OF THE AMERICAN LUMBER STANDARDS TREATED WOOD PROGRAM. ALL FOUNDATION MEMBERS SHALL BE IDENTIFIED PER SECTION 2303.1.9.1. TREAT ALL CUT ENDS OF PRESSURE TREATED MEMBERS WITH AN APPROVED PRESERVATIVE. (WILLARD W/B COPPER GREEN 2% OR AN APPROVED EQUIVALENT).
12. MACHINE NAILING IS SUBJECT TO APPROVAL BY THE STRUCTURAL ENGINEER OR ARCHITECT AND THE DIVISION OF THE STATE ARCHITECT.
13. POWDER DRIVEN FASTENERS SHALL BE BY HILTI, INC, HILTI FASTENING SYSTEMS - OR EQUAL. INSTALL IN ACCORDANCE WITH DRAWINGS AND THE MANUFACTURER'S RECOMMENDATIONS AND ICC APPROVALS
14. FASTENERS FOR PRESSURE-PRESERVATIVE TREATED WOOD SHALL COMPLY WITH SECTION 2304.10.6 OF CBC
15. NAILS AND SPIKES USED IN WET OR EXTERIOR LOCATIONS SHALL COMPLY WITH SECTION 2304.10.2.1 OF CBC

STRUCTURAL STEEL:

1. NOT USED
2. NOT USED
3. NOT USED
4. ALL WELDING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CALIFORNIA BUILDING CODE (CBC) AND THE STRUCTURAL WELDING CODE – STEEL, AWS D1.1, 2015 EDITION OF THE AMERICAN WELDING SOCIETY. WELDING DONE BY SHIELDING ELECTRIC-ARC OR FLUX-CORED PROCESS COMPLYING WITH AWS.
5. FABRICATION AND ERECTION OF STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2016 EDITION OF THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) (CBC CHAPTER 22A). ALSO COMPLY WITH REQUIREMENTS OF THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES. TEMPORARY BRACING IS REQUIRED AS NEEDED UNTIL ALL ELEMENTS SHOWN ON STRUCTURAL DRAWINGS ARE IN PLACE.
6. PRIME ALL STEEL SURFACES WITH AN APPROVED PRIMER, EXCEPT SURFACES TO BE EMBEDDED IN CONCRETE AND SURFACES TO RECEIVE FIELD WELDS. TOUCH-UP FIELD WELDS AND OTHER EXPOSED STEEL SURFACES AFTER ERECTION. ALTERNATE: PROVIDE GALVANIZED PER ASTM A-123.
7. N/A
8. QUALIFIED AND CERTIFIED WELDERS SHALL BE USED FOR ALL WELDING. ALL WELDING TO CONFORM TO THE 2015 EDITION OF THE AMERICAN WELDING SOCIETY STRUCTURAL WEDLING CODE AWS D1.1
9. MATERIALS:

ANGLES, MISC STEEL	ASTM A36
PLATES	ASTM A-572 GRADE 50
WELDING ELECTRODES	AWS STRUCTURAL STEEL E70XX,
TYPICAL STEEL CONNECTION BOLTS	ASTM A307 GRADE A
RUSH-INHIBITING PRIMER	TT-P-645
RECTANGULAR HSS MEMBERS	ASTM A-500 GRADE B (Fy = 46 KSI)

10. CONNECTED MEMBERS SHALL BEAR ONLY UPON UNTHREADED PORTIONS OF BOLTS
11. BURNING OF HOLES IS NOT ALLOWED
12. NOT USED
13. THE STRUCTURAL STEEL FABRICATOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION
14. BOLT HOLES SHALL BE 1/16" LARGER IN DIAMETER THAN NOMINAL SIZE OF BOLTS USED, UNO

ACCEPTABLE FASTENERS:

SELF-TAPPING SCREWS	SECT 3.2.12 ASTM C1513
SELF-DRILLING SCREWS	SECT 3.2.9 ASTM C1513
SELF-PIERCING SCREWS	SECT 3.2.9 ASTM C1513

REFERENCE ASTM C1513, STANDARD SPECIFICATION FOR TAPPING SCREWS FOR COLD-FORMED STEEL FRAMING CONNECTION

REFERENCE AISI S400-20 , NORTH AMERICAN STANDARD FOR SEISMIC DESIGN

FASTENERS MANUFACTURED WITH CARBON STEEL WIRE SHALL CONFORM TO ASTM A510

TESTING - THE OPERATOR, TOOL, AND FASTENER SHALL BE PRE-QUALIFIED BY THE PROJECT INSPECTOR. HE SHALL OBSERVE THE TESTING OF THE FIRST 10 FASTENER INSTALLATIONS. A TEST "PULL-OUT" LOAD OF NOT LESS THAN TWICE THE DESIGN LOAD SHALL BE APPLIED TO THE PIN IN SUCH A MANNER AS NOT TO RESIST THE SPALLING TENDENCY OF THE CONCRETE SURROUNDING THE PIN. THEREAFTER, RANDOM TEST UNDER THE PROJECT INSPECTOR'S SUPERVISION SHALL BE MADE OF APPROXIMATELY 1 IN 10 PINS. IF ANY PIN FAILS TESTING, TEST ALL PINS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE PASS, THEN RESUME THE INITIAL TESTING FREQUENCY.

COLD FORMED STRUCTURAL STEEL:

1. NOT USED
2. NOT USED
3. CORROSION PROTECT PER TABLE A4-1 BELOW
4. GALVANIZED COATINGS MUST MEET ASTM A-525 SPECIFICATIONS
5. CARBON SHEET STEEL MUST MEET THE MINIMUM REQUIREMENTS OF ASTM A-1011 SS GRADE 55 & 33 GRADE 55 KSI FOR 10, 12, 14, AND 16 GAUGE AND GRADE 33 KSI FOR 18 GAUGE AND LIGHT MEMBERS UON. CARBON SHEET STEEL PRODUCTS MUST BE THOROUGHLY COATED WITH A RUST INHIBITIVE PAINT.
6. ALL STRUCTURAL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH AMERICAN IRON AND STEEL INSTITUTE (AISI) NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STRUCTURAL STEEL MEMBERS LATEST ADOPTED EDITION AISI S100-16 (2020) W/S2-20.
7. NOT USED
8. NOT USED
9. FASTENINGS OF COMPONENTS SHALL BE WITH SELF-DRILLINGS SCREWS OR WELDING. SCREWS OR WELDS SHALL BE SUFFICIENT SIZE TO INSURE THE STRENGTH OF THE CONNECTION. ALL WELDS OF GALVANIZED STEEL SHALL BE TOUCHED UP WITH ZINC-RICH PAINT. ALL WELDS OF CARBON SHEET STEEL SHALL BE TOUCHED UP WITH PAINT
10. NOT USED
11. PROVIDE SHOP DRAWINGS INDICATING MEMBERS GAUGES, SHAPES, SIZES, SPACING, LOCATIONS AND CONNECTIONS
12. STUDS SHALL BE INSTALLED WITH THEIR BEARING ENDS POSITIONED FLUSH AGAINST THE INSIDE TRACK WEB.
13. NOT USED
14. NOT USED
15. N/A
16. NOT USED
17. ALL SHEET METAL SCREWS SHALL BE THREAD FORMING OR THREAD CUTTING, WITH OR WITHOUT A SELF-DRILLING POINT PER AISI
18. ALL WELDING OR MATERIAL LESS THAN 0.18 INCHES IN THICKNESS SHALL BE MADE IN ACCORDANCE WITH THE AWS D1.3 WELDERS AND WELDING PROCEDURES AND SHALL BE QUALIFIED AS SPECIFIED IN AWS D1.3
19. TOUCH UP COLD GALVANIZING USING ZRC CHEMICAL PRODUCTS CO.M, ZRC COLD GALVANIZING COMPOUND OR EQUAL
20. SPLICES IN STUDS SHALL NOT BE PERMITTED

CORROSION PROTECTION:

1. STRUCTURAL MEMBERS UTILIZED IN COLD-FORMED STEEL FRAMED CONSTRUCTION SHALL HAVE A PROTECTIVE COATING AS SPECIFIED IN TABLE A4-1

TABLE A4-1
COATING DESIGNATIONS

COATING CLASSIFICATION	COATING DESIGNATOR	MINIMUM COATING REQUIREMENTS			
		ZINC COATED[A] OZ/FT²(G/M²)	ZINC IRON[B] OZ/FT²(G/M²)	55% AL-ZINC[C] OZ/FT²(G/M²)	ZINCE-5%[D] OZ/FT²(G/M²)
METALLIC COATED	CP 60	G60 [F180]	A60 [F180]	AZ50 [AZM1850]	CF30 [ZGF90]
	CP 90	G90 [Z275]	NOT APPLICABLE	AZ50 [AZM1850]	CF45 [ZGF135]
PAINTED METALLIC	PM	THE METALLIC COATED SUBSTRATE SHALL MEET THE REQUIREMENTS OF METALLIC COATED. IN ADDITION, THE PAINT FILM SHALL HAVE A MINIMUM THICKNESS OF 0.5 MIL PER SIDE (PRIMER PLUS TOPCOAT) WITH A MINIMUM PRIMER THICKNESS OF 0.1 MIL PER SIDE			

[A] ZINC-COATED STEEL SHEET AS DESCRIBED IN ASTM A653/A653M
[B] ZINC-IRON ALLOY-COATED STEEL SHEET AS DESCRIBED IN ASTM A653/A653M
[C] 55% ALUMINUM-ZINCE ALLOY COATED STEEL SHEET AS DESCRIBED IN ASTM A792/A792M
[D] ZINCE-5% ALUMINUM ALLOY-COAED STEEL SHEET AS DESCRIBED IN ASTM A875/A875M
[E] IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A1003/A1003M

2. ADDITIONAL CORROSION PROTECTION SHALL NOT BE REQUIRED ON EDGES OF METALLIC-COATED STEEL FRAMING MEMBERS, SHOP OR FIELD CUT, PUNCHED OR DRILLED
3. UNLESS ADDITIONAL CORROSION PROTECTION IS PROVIDED, FRAMING MEMBERS SHALL BE LOCATED WITHIN THE BUILDING ENVELOPE AND SHIELDED FROM DIRECT CONTACT WITH MOISTURE FROM THE GROUND OR THE OUTDOOR CLIMATE

ACCESS NOTES

1. RAMPS HAVING SLOPES STEEPER THAN 1 VERTICAL TO 20 HORIZONTAL SHALL HAVE LANDINGS AT TOP AND BOTTOM AND AT LEAST ONE INTERMEDIATE LANDING SHALL BE PROVIDED FOR EACH 30" RISE OF RISE PER CBC 11B-405.7
2. LOCATION OF LANDINGS - LANDINGS SHALL BE PROVIDED AT THE TOP AND BOTTOM OF EACH RAMP. INTERMEDIATE LANDINGS SHALL BE PROVIDED A INTERVALS NOT EXCEEDING 30" OF VERTICAL RISE AND AT EACH CHANGE OF DIRECTION. LANDINGS ARE NOT CONSIDERED IN DETERMINING THE MAXIMUM HORIZONTAL DISTANCE OF EACH RAMP

   EXAMPLES OF RAMP DIMENSIONS:

SLOPE:	MAX RISE (INCHES):	MAX HORIZONTAL PROJECTION:
1:12	30	30'-0"
1:15	30	37'-6"
1:16	30	40'-0"

   SIZE OF LANDINGS SHALL NOT BE LESS THAN 60" WIDE AND SHALL HAVE A LENGTH OF NOT LESS THAN 60" IN THE DIRECTION OF THE RAMP RUN PER CBC 11B-405.7.2 & 11B-405.7.3. AT THE BOTTOM LANDING OR LANDING AT CHANGE OF RAMP DIRECTION, THE LANDING SHALL SLOPE 1:48 MAX AND EXTEND MIN 72" IN THE DIRECTION OF THE RAMP
3. DOORS IN ANY POSITION SHALL NOT BE REDUCE THE MINIMUM DIMENSIONS OF THE LANDING TO LESS THAN 42" AND SHALL NOT REDUCE THE REQUIRED WIDTH BY MORE THAN 3" WHEN FULLY OPENED PER CBC 11B-405.7.5
4. RAMPS SHALL BE CONSTRUCTED AS REQUIRED. ALL REQUIREMENTS SHALL CONFORM TO CBC 11B-405
5. THE SURFACE OF RAMPS, LANDING & STAIRS SHALL BE ROUGHED OR SHALL BE OF SLIP-RESISTANT MATERIAL WITH A COEFFICIENT OF FRICTION OF 0.6 FOR LANDINGS AND 0.8 FOR RAMP AND STAIRS
6. RAMPS AND STAIRWAY USED AS THE EXIT REQUIRED WIDTH SHALL CONFORM TO CBC SECTION 1009, 1010, CHAPTER 11B & 11B-405.5
7. HANDRAILS SHALL CONFORM TO CBC SECTION 11B-405.8 (RAMPS) AND 11B-504.6 (STAIRS)
8. STRIKE EDGE EXTENSION THE WIDTH OF THE LANDING SHALL EXTEND 24" PAST THE STRIKE EDGE OF ANY DOOR OR GATE FOR EXTERIOR RAMPS AND 18" PAST THE STRIKE EDGE FOR INTERIOR RAMPS. FOR DOOR SWINGING INTO LANDING, 42" MIN IS REQUIRED PER 11B-405.7.5
9. CHANGE IN DIRECTION - RAMPS THAT CHANGE DIRECTION BETWEEN RUNS AT LANDINGS SHALL HAVE A CLEAR LANDING 60" MINIMUM BY 72" MINIMUM IN THE DOWNWARD DIRECTION OF TRAVEL PER CBC 11B-405.7.4 AND 72" MIN REQUIRED AT THE BOTTOM LANDING
10. THE WIDTH OF RAMPS SHALL HAVE A MINIMUM WIDTH OF 48" OR AS WIDE AS REQUIRED EXIT WIDTH IF LARGER REQUIRED PER STAIRWAY AND EXITS PER CBC 11B-405.5
11. LANDINGS AND RAMPS SHALL BE SLOPED AT 1:48 MAX TO PREVENT THE ACCUMULATION OF WATER ON WALKING SURFACES PER CBC 11B-405.10. SEE CBC 11B-504.7 FOR STAIRS
12. SITE CONDITION: DUE TO VARIES SITE CONDITIONS, THE MAXIMUM HEIGHT OF FINISH FLOOR FROM GRADE IS 26". THEREFORE IT IS POSSIBLE THAT THE ACCESS RAMP ATTACHED TO THE COMMON LANDING COULD BE 26'-0". AT A SLOPE OF 1:12, THE ARCHITECT MUST TAKE INTO ACCOUNT THAT THE RAMP SUPPLIED BY SKC COMPANY IS 11'-0". AT A SLOPE OF 1:12 THE ARCHITECT WILL HAVE TO DESIGN AND PROVIDE SUFFICIENT DETAILS OF RAMP EXTENSIONS AND BOTTOM LANDING DEPENDING ON PARTICULAR SITE CONDITIONS ICS WILL NOT BE RESPONSIBLE FOR ANY RAMP EXTENSION EXCEEDING ORIGINAL PLAN AS SHOWN ON PLANS

STATE AGENCY APPROVAL

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GC LIC # 992118 SBE CERTIFIED

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DISTRICT/CUSTOMER NAME:
ANTELOPE UNION
HIGH SCHOOL DISTRICT

SCHOOL/SITE NAME:
SOARS
HIGH SCHOOL

SHEET TITLE:
CONSTRUCTION SPECIFICATIONS AND NOTES

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122029 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/27/2023

PROFESSIONAL OF RECORD ON PC

ORION
Structural Engineering, Inc.
11305 RANCHO BERNARDO RD
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SAN DIEGO CA, 92127
PHONE (858) 679-1974

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA
EXP. 12/31/24
STRUCTURAL

FIRM: ORION STRUCTURAL ENGINEERING, INC.
ADDRESS: 11305 RANCHO BERNARDO ROAD, SUITE 121
CITY: SAN DIEGO, CA 92127
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PROJECT SPECIFIC PROFESSIONAL OF RECORD

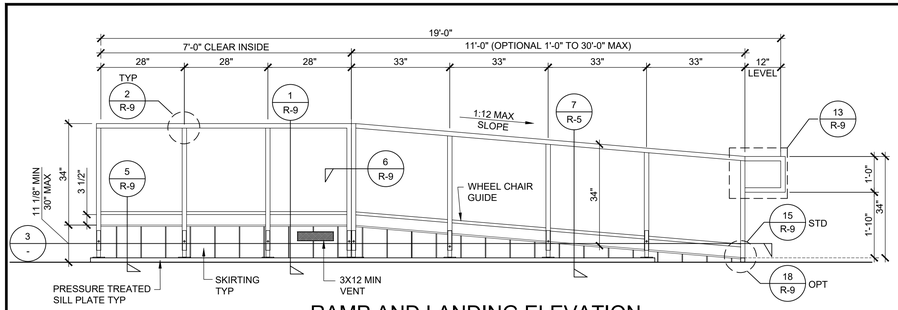
FIRM:
ADDRESS:
CITY:
PHONE:

REVISIONS
1 -
2 -
3 -
4 -
5 -

PROJECT NO.:	00-0000
DRAFTER:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER
R-3

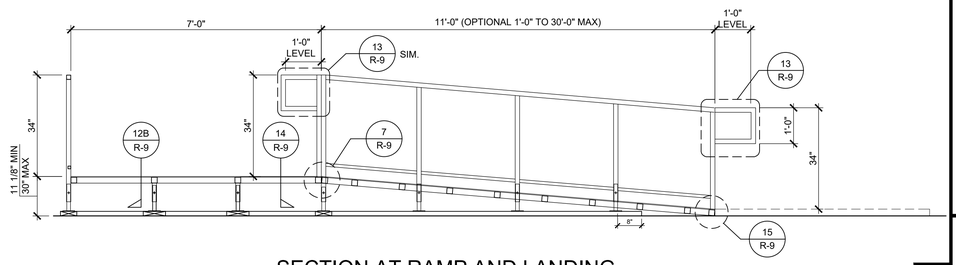
9/26/2023 9:28:02 AM



RAMP AND LANDING ELEVATION

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

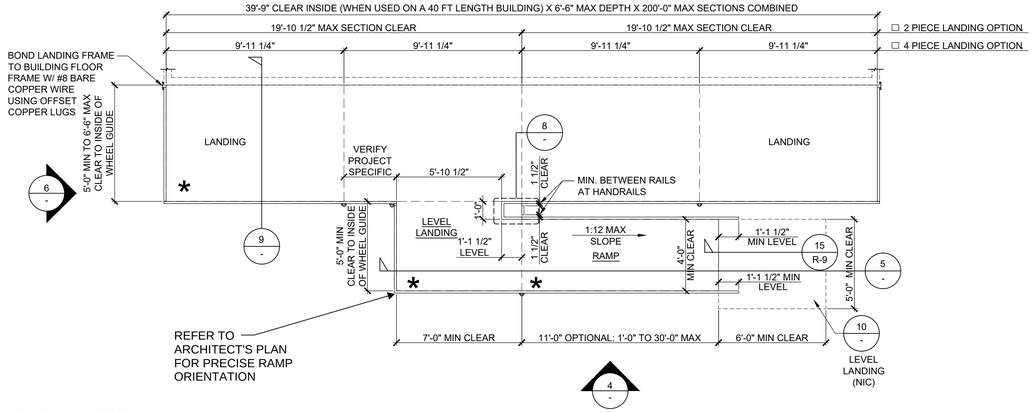
4



SECTION AT RAMP AND LANDING

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

5



* RAMPS AND LANDINGS TO BE SLOPED SO AS NOT TO RETAIN STANDING WATER,1:48 (2.083%) MAX SLOPE

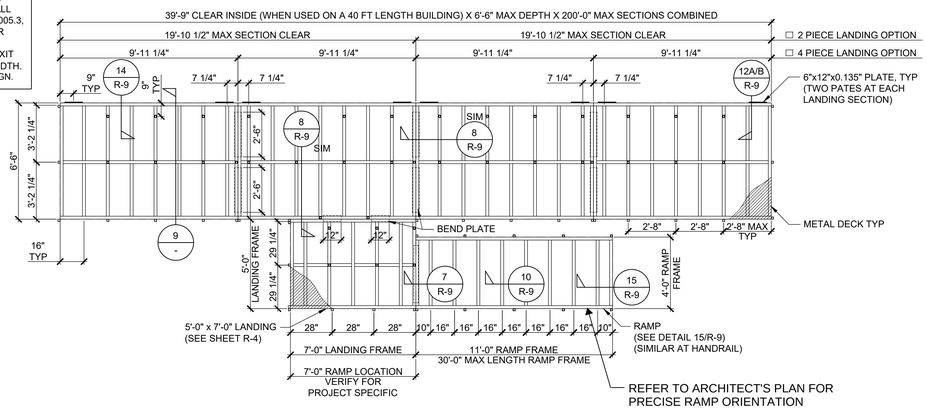
RAMP AND LANDING AT BUILDING

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

1

NOTE:
PER CBC 1012.5.1 MINIMUM EGRESS WIDTH SHALL COMPLY WITH CBC 1020.3 (CORRIDORS)

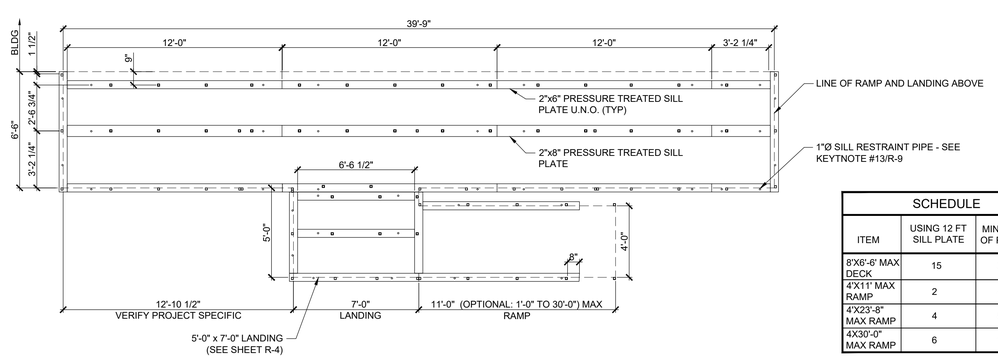
1020.3
THE MIN WIDTH OF CORRIDORS SPECIFIED IN TABLE 1020.3 SHALL BE DETERMINED BY SECTION 1005.3, PER OCCUPANT. HOWEVER FOR GROUP E IF THERE ARE 100 OR MORE OCCUPANTS REQ'D TO EXIT THE RAMP SHALL BE 72" MIN WIDTH. THIS WILL REQUIRE A NEW DESIGN.



RAMP AND LANDING FRAMING PLAN

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

2

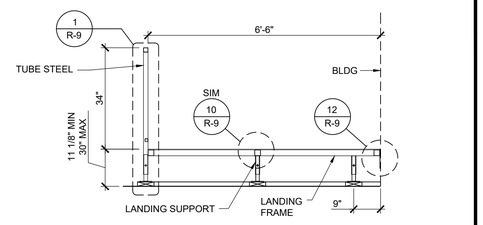


SCHEDULE		
ITEM	USING 12 FT SILL PLATE	MIN QTY OF PIPES
8'X6'-6" MAX DECK	15	38
4'X11" MAX RAMP	2	4
4'X23'-8" MAX RAMP	4	8
4X30'-0" MAX RAMP	6	12

SILL PLAN FOR RAMP AND LANDING

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

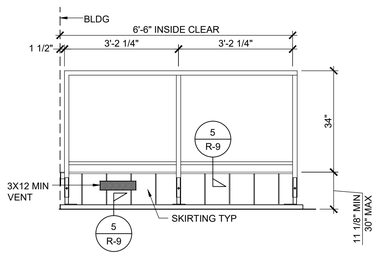
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SECTION AT LANDING

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

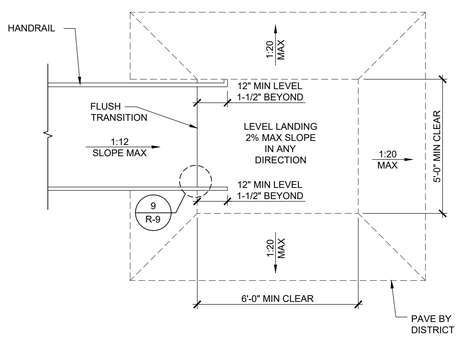
9



LANDING ELEVATION

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

6



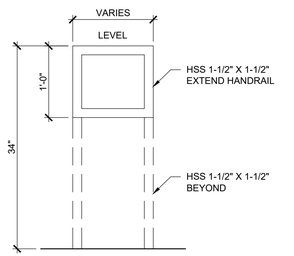
NOTE:
1. 1:20 TRANSITIONS OFF OF LOWER LANDING REQUIRES NO HANDRAILS.
2. TRANSITIONS EXCEEDING 1:20 BUT NOT TO EXCEED 1:12 REQUIRE REMOVAL OF 12" HANDRAIL EXTENSION AND ADDITIONAL HANDRAILING ALSO REQUIRES ADDITIONAL RAMP LENGTH BY DISTRICT. (THIS CONDITION REQUIRES A SITE SPECIFIC DETAIL PROVIDED BY ARCHITECT TO DEMONSTRATE ACCESSIBLE RAMP.)

* RAMPS AND LANDINGS TO BE SLOPED SO AS NOT TO RETAIL STANDING WATER,1:48 (2.083%) MAX SLOPE.

LANDING ELEVATION (REAR)

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

10

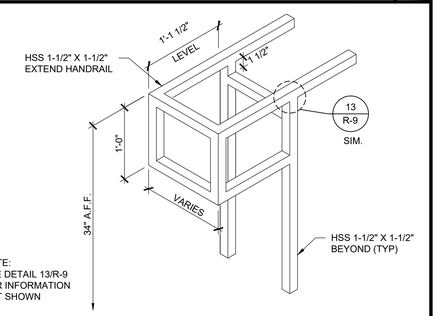


NOTE:
SEE DETAIL 13/R-9 FOR INFORMATION NOT SHOWN

RETURN EXTEND HANDRAIL ELEVATION

SCALE: 1" = 1'-0"

7



NOTE:
SEE DETAIL 13/R-9 FOR INFORMATION NOT SHOWN

RETURN EXTEND HANDRAIL ISOMETRIC

SCALE: 1" = 1'-0"

8

STATE AGENCY APPROVAL

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MANUFACTURER #MF1279666 DEALER # DL1279666
GC LIC # 992118 SBE CERTIFIED

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DISTRICT/CUSTOMER NAME:
ANTELOPE UNION HIGH SCHOOL DISTRICT

SCHOOL/SITE NAME:
SOARS HIGH SCHOOL

SHEET TITLE:

COMMON LANDING & RAMP PLAN

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122029 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/27/2023

PROFESSIONAL OF RECORD ON PC

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11305 RANCHO BERNARDO RD SUITE 121
SAN DIEGO CA, 92127
PHONE (858) 679-1974
ALAN J. ORION No. 5437 EXP. 12/31/24 STRUCTURAL ENGINEER STATE OF CALIFORNIA

FIRM: ORION STRUCTURAL ENGINEERING, INC.
ADDRESS: 11305 RANCHO BERNARDO ROAD, SUITE 121
CITY: SAN DIEGO, CA 92127
PHONE: (858) 679-1974

PROJECT SPECIFIC PROFESSIONAL OF RECORD

FIRM:
ADDRESS:
CITY:
PHONE:

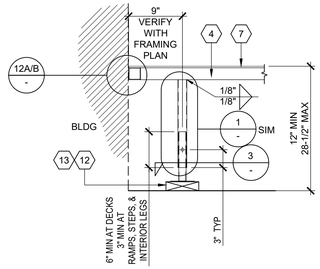
REVISIONS
1 -
2 -
3 -
4 -
5 -

PROJECT NO.:	00-0000
DRAFTER:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

R-6

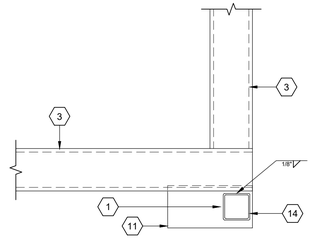
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INTERIOR ADJUSTABLE SUPPORT LEGS

SCALE: 1" = 1'-0"

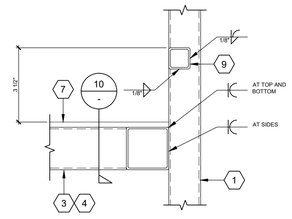
14



RAMP TOE (PLAN VIEW)

SCALE: 6" = 1'-0"

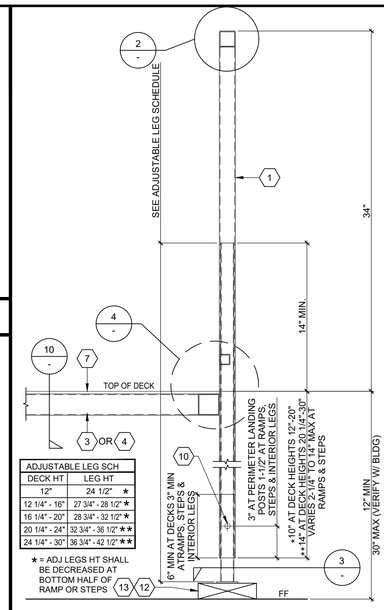
9



VERTICAL TUBE TO LANDING/RAMP

SCALE: 6" = 1'-0"

4



ADJUSTABLE LEG SCH	
DECK HT	LEG HT
12"	24 1/2" ★
12 1/4" - 16"	27 3/4" - 28 1/2" ★
16 1/4" - 20"	28 3/4" - 32 1/2" ★
20 1/4" - 24"	32 3/4" - 36 1/2" ★★
24 1/4" - 30"	36 3/4" - 42 1/2" ★★

★ = ADJ LEGS HT SHALL BE DECREASED AT BOTTOM HALF OF RAMP OR STEPS

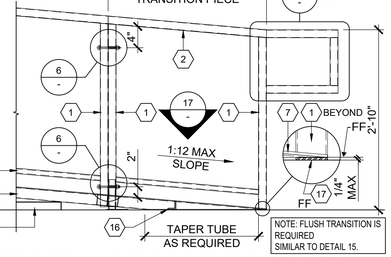
SECTION AT DECK & HANDRAIL

SCALE: 3" = 1'-0"

1

KEY NOTES

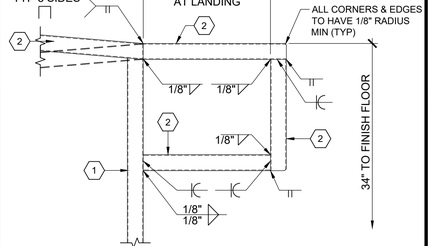
1. VERTICAL RAIL POST TUBE: 1 1/2" X 1 1/2" X 14 GA MIN (T = 0.075") SQUARE TUBE.
2. HANDRAIL TUBE: 1 1/2" X 1 1/2" X 16 GA MIN (T =0.060") SQUARE TUBE
3. STAIR TREAD AND RISER TUBE: 2" X 2" X 14 GA MIN (T = 0.075") SQUARE TUBE
4. LANDING JOIST & PERIMETER TUBE: 2" X 2" X 14 GA MIN (T = 0.075") SQUARE TUBE
5. 10 GA. HANDRAIL MOUNTING BRACKET: 1/4" X 3" LAG SCREW AT WOOD STUD BUILDING OR #14 X 2" TEK SCREW AT METAL STUD BUILDING
6. NOT USED
7. 12 GA METAL DECK (0.105"): NON-SLIP SURFACE MAINTAINABLE FOR 1 YEAR. SEE ACCESS NOTES #5 AND DETAIL #4 ON SHEET R-9.
8. 6" X 12" X 0.135" STEEL PLATE AT LANDINGS. TO SECURE PLATE TO STRUCTURAL FLOOR FRAME, USE (2) #14 X 1-1/2" TEK SCREWS. TO SECURE PLATE TO BUILDING, USE (2) #14 X 2" TEK SCREWS FOR METAL STUD BUILDING OR (2) 1/4" X 3" LAG SCREWS FOR WOOD STUD BUILDING
9. WHEELCHAIR GUIDE RAILS: 1" X 1" X 14 GA MIN (t = 0.075") SQUARE TUBE
10. 3/8"Ø ZINC MACHINE BOLT WITH NUT
11. 2" X 4" 0.135" THICK BASE PLATE. DRILL (2) 5/16" HOLES FOR (2) 1/4"Ø X 1-1/2" GALV LAG SCREWS
12. 2 X HF #2 MIN PRESSURE TREATED SILL PLATE
13. 1"Ø X 14" STANDARD WEIGHT HOT DIPPED GALVANIZED PIPE AT 10'-0" OC MAX. 2'-0"MAX FROM EACH CORNER IN BOTH DIRECTIONS AND A MINIMUM OF TWO PIPES PERDISCONTINUE FOUNDATION STRIP PER DSA IR 16-1 SECTION 3.2.3.5 DRILL SILL PLATE 1 1/2"Ø MAX HOLE PIPE SHOULD PENETRATE INTO SOIL AND/OR PAVING A MIN OF 12" MEASURED VERTICALLY PIPES SHALL BE INSTALLED ON A CONTINUOUS PLATE.
14. ADJUSTABLE LEGS: 1-1/4" X 1-1/4" X 0.105" SQUARE TUBE WELDED TO BASE PLATE
15. 6" X LENGTH OF RAMP X 0.135" CONT PLATE. TO SECURE PLATE TO BUILDING, USE 1/4" X 3" LAG SCREWS. TO SECURE PLATE TO STRUCTURAL FLOOR FRAME, USE #14 X 2" TEK SCREWS. TO SECURE PLATE TO WOOD FOUNDATION, USE 1/4" X 3" LAG SCREWS. ALL FASTENER SPACING SHALL BE AT 9" OC MAX
16. L-1 1/2" X 1-1/2" X 3/16" X WIDTH OF RAMP
17. 2" X 1/8" CONTINUOUS PLATE
18. NOT USED
19. NOT USED
20. NOT USED
21. THIS BLOCKING IS PART OF THE BUILDING. WOOD BLOCKING 4X BLOCKING X STUD DEPTH W/ A34 t&b EA. END, FOR METAL STUD 16GA "C" FLAT BLOCKING W/ (3)-#10SMS TO EA. STUD.
22. 1/2" MINIMUM PLYWOOD SKIRTING OR 5/8" SIDING. FINISH TO MATCH SIDING. ATTACH SIDING TO TUBE STEEL WITH #14 X 1-1/2" FH SCREWS AT 6" OC AND TO 2X NAILER WITH 8D HOT-DIPPED GALVANIZED NAILS AT 6" OC
23. 26 GA MIN "J" FLASHING
24. 3" X 1" X 3'-0" X 10 GA BENT PLATE (0.135")
25. 2X NAILED TO SILL PLATE WITH 16D HOT-DIPPED GALVANIZED NAILS AT 16" OC MAX. ALT: #10 X 3" MIN EXTERIOR WOOD SCREWS



SECTION AT HANDRAIL

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

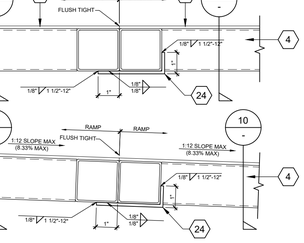
16



HANDRAIL CONNECTION

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

11



VERT TUBE TO VERT TUBE CONN

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

6

RAMP SECTION

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

17

SECTION AT PLATE

SCALE: 6" = 1'-0"

12

RAMP TO LANDING

SCALE: 6" = 1'-0"

7

HANDRAIL

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

2

ZERO TRANSITION RAMP SECTION

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

18

HANDRAIL EXTENSION

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

13

RAMP OR LANDING EXTENSION

SCALE: 6" = 1'-0"

8

BASE PLATE PLAN VIEW

SCALE: 6" = 1'-0"

3

FINISH GRADE TRANSITION

SCALE: 6" = 1'-0"

15

DECK TO FRAME

SCALE: 6" = 1'-0"

10

SKIRTING INSTALLATION

SCALE: 6" = 1'-0"

5

RAMP AND DECK HANDRAIL

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

19

STATE AGENCY APPROVAL

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MANUFACTURER #MF1279666 DEALER # DL1279666
GC LIC # 992118 SEE CERTIFIED

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DISTRICT/CUSTOMER NAME:
ANTELOPE UNION HIGH SCHOOL DISTRICT

SCHOOL/SITE NAME:
SOARS HIGH SCHOOL

SHEET TITLE:

RAMP & LANDING DETAILS

PRE-CHECK (PC) DOCUMENT
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APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122029 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/27/2023

PROFESSIONAL OF RECORD ON PC

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REGISTERED PROFESSIONAL ENGINEER BRIAN T. DUNN EXP. 12/31/24 STRUCTURAL STATE OF CALIFORNIA

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PROJECT SPECIFIC PROFESSIONAL OF RECORD

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ADDRESS:
CITY:
PHONE:

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2	-
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PROJECT NO.:	00-0000
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SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

R-9

9/26/2023 9:29:37 AM