ROSEMEAD SCHOOL DISTRICT
ENCINITA ELEMENTARY SCHOOL
RELOCATION OF 2 RE-LOCATABLES
4515 ENCINITA AVENUE ROSEMEAD CA 91770

GENERAL NOTES

1. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE 2019 CALIFORNIA BUILDING CODE, PART 1 AND 2, TITLE 24 C.C.R. AND ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING THE STATE OF CALIFORNIA, DIVISION OF INDUSTRIAL SAFETY AND THOSE CODES AND STANDARDS LISTED IN THE NOTES AND SPECIFICATIONS.

2. DO NOT SCALE THE CONSTRUCTION DOCUMENTS. DIMENSIONS SHALL TAKE PRECEDENCE OVER GRAPHIC SCALES SHOWN ON THE DRAWINGS. TYPICAL DETAILS & GENERAL NOTES ARE MINIMUM REQUIREMENTS TO BE USED WHEN CONDITIONS ARE NOT SHOWN OTHERWISE. IF ADDITIONAL DIMENSIONS ARE REQUIRED, CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING. WORK WITHIN THE AREA OF DISCREPANCY OR CONFLICT SHALL NOT PROCEED UNTIL GIVEN SUCH NOTICE BY THE ARCHITECT TO RESUME CONSTRUCTION.

3. SPECIFIC NOTES & DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES & TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.

4. WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDUM.

5. THIS SHEET IS ONE OF A SET OF DOCUMENTS WHICH INCLUDES, BUT IS NOT LIMITED TO, DRAWINGS, SPECIFICATIONS & ADDENDA ADDRESSING ALL TRADES. FULLY COORDINATE ARCHITECTURAL, STRUCTURAL, ELECTRICAL, AND/OR MECHANICAL DRAWINGS, DETAILS & SPECIFICATIONS TO ASCERTAIN THE FULL SCOPE OF THE WORK. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO FURNISH COMPLETE SET OF CONSTRUCTION DOCUMENTS TO ALL BIDDERS. ALL BIDDERS SHALL REVIEW THE FULL SET OF CONSTRUCTION DOCUMENTS PRIOR TO SUBMITTING BIDS FOR THE WORK. ANY INCONSISTENCIES OR CONFLICTING INFORMATION INCORPORATED INTO THE CONTRACT DOCUMENTS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATIONS AND/OR ADJUSTMENTS BEFORE COMMENCING WORK.

6. WHERE APPLICABLE, REFER TO THE PROJECT SPECIFICATION MANUAL FOR INFORMATION NOT COVERED BY THESE GENERAL NOTES OR THE DRAWINGS. INFORMATION GIVEN IN ONE PORTION OF THE CONTRACT DOCUMENTS SHALL BE CONSIDERED TO BE GIVEN IN ALL CONTRACT DOCUMENTS.

7. THE DRAWINGS & SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE(S) OR MODIFICATION TO AN EXISTING STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION.

   GENERAL:
   CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR

   ADDENDA:
   CHANGES OR ALTERATIONS OF THE APPROVED PLANS OR SPECIFICATIONS PRIOR TO LETTING A CONSTRUCTION CONTRACT FOR THE WORK INVOLVED SHALL BE MADE BY MEANS OF ADDENDA WHICH SHALL BE SUBMITTED TO & APPROVED BY DSA PRIOR TO DISTRIBUTION TO CONTRACTORS. ORIGINAL COPIES OF ADDENDA SHALL BE STAMPED & SIGNED BY THE ARCHITECT OR ENGINEER IN GENERAL RESPONSIBLE CHARGE OF PREPARATION OF THE PLANS & SPECIFICATIONS & BY THE ARCHITECT OR REGISTERED ENGINEER DELEGATED RESPONSIBILITY FOR THE PORTION AFFECTED BY THE ADDENDA. [SEE SECTION 4-317(h).] ONE COPY OF EACH ADDENDUM IS REQUIRED FOR THE FILES OF DSA.

   CONTRACT CHANGE DOCUMENT (CCD):
   CHANGES OR ALTERATIONS OF THE APPROVED PLANS OR SPECIFICATIONS AFTER A CONTRACT FOR THE WORK HAS BEEN LET SHALL BE MADE ONLY BY MEANS OF CCD SUBMITTED TO & APPROVED BY DSA PRIOR TO COMMENCEMENT OF THE WORK SHOWN THEREON. CCDS SHALL STATE THE REASON OF THE CHANGE & THE SCOPE OF WORK TO BE ACCOMPLISHED, &, WHERE NECESSARY, SHALL BE ACCOMPANIED BY SUPPLEMENTARY DRAWINGS REFERENCED IN THE TEXT OF THE CCD. ALL CCDS & SUPPLEMENTARY DRAWINGS SHALL BE STAMPED & SIGNED BY THE ARCHITECT OR ENGINEER IN GENERAL RESPONSIBLE CHARGE OF OBSERVATION OF THE WORK OF CONSTRUCTION OF THE PROJECT & BY THE ARCHITECT OR REGISTERED ENGINEER DELEGATED RESPONSIBILITY FOR OBSERVATION OF THE PORTION OF THE WORK OF CONSTRUCTION AFFECTED BY THE CCD, SHALL BEAR THE APPROVAL OF THE DISTRICT & SHALL INDICATE THE ASSOCIATED CHANGE IN THE PROJECT COST, IF ANY. ONE COPY OF EACH CCD IS REQUIRED FOR THE FILES OF DSA.

   VOIDANCE OF APPLICATION:
   ANY CHANGE, ERASURE, ALTERATION, OR MODIFICATION OF ANY PLANS OR SPECIFICATIONS BEARING THE STAMP OF DSA MAY RESULT IN VOIDANCE OF THE APPROVAL OF THE APPLICATION. HOWEVER, THE WRITTEN APPROVAL OF PLANS MAY BE EXTENDED BY DSA TO INLCUDE REVISED PLANS & SPECIFICATIONS AFTER DOCUMENTS ARE SUBMITTED FOR REVIEW & APPROVED. (SEE SECTION 4-323 FOR REVISED PLANS & SECTION 4-338 FOR ADDENDA & CHANGE ORDERS.)

   PERFORMANCE OF THE WORK:
   THE CONTRACTOR SHALL CAREFULLY STUDY THE APPROVED PLANS & SPECIFICATIONS & SHALL PLAN A SCHEDULE OF OPERATIONS WELL AHEAD OF TIME. IF AT ANY TIME IT IS DISCOVERED THAT WORK IS BEING DONE WHICH IS NOT IN ACCORDANCE WITH THE APPROVED PLANS & SPECIFICATIONS, THE CONTRACTOR SHALL CORRECT THE WORK IMMEDIATELY. ALL INCONSISTENCIES OR ITEMS WHICH APPEAR IN ERROR IN THE PLANS & SPECIFICATIONS SHALL BE PROMPTLY CALLED TO THE ATTENTION OF THE ARCHITECT OR REGISTERED ENGINEER, THROUGH THE INSPECTOR, FOR INTERPRETATION OR CORRECTION. IN NO CASE, HOWEVER, SHALL THE INSTRUCTION OF THE ARCHITECT OR REGISTERED ENGINEER BE CONSTRUED TO CAUSE WORK TO BE DONE WHICH IS NOT IN CONFORMITY WITH THE APPROVED PLANS, SPECIFICATIONS, AND CHANGE ORDERS. THE CONTRACTOR MUST NOTIFY THE PROJECT INSPECTOR, IN ADVANCE, OF THE COMMENCEMENT OF CONSTRUCTION OF EACH AND EVERY ASPECT OF THE WORK. SUBSTITUTIONS SHALL BE CONSIDERED AS A CHANGE ORDER.

8. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS & SITE CONDITIONS BEFORE STARTING WORK. DIMENSIONS ARE NOT ADJUSTABLE WITHOUT THE REVIEW & CLARIFICATION OF THE ARCHITECT UNLESS NOTED AS (+/-) PLUS/MINUS OR (FIELD) VERIFY. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCY BEFORE PROCEEDING WITH WORK.

9. ALL INFORMATION SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS REPRESENTING THE BEST INFORMATION CURRENTLY AVAILABLE, BUT WITHOUT GUARANTEE OF ACCURACY. THE CONTRACTOR & SUBCONTRACTOR SHALL CAREFULLY EXAMINE THE SITE, COMPARE THE CONSTRUCTION DOCUMENTS WITH THE EXISTING CONDITIONS, BE RESPONSIBLE FOR ACCURACY OF ALL DIMENSIONS & THOROUGHLY FAMILIARIZE HIMSELF/HERSELF WITH THE SCOPE OF WORK. BY THE ACT OF SUBMITTING A BID THE CONTRACTOR SHALL BE DEEMED TO HAVE MADE SUCH AN EXAMINATION, HAVE ACCEPTED THE CONDITIONS & HAVE INCLUDED ALL RELATED SITE/BUILDING(S) CONDITION COST IN HIS/HER BID.

10. NO PART OF THESE CONTRACT DOCUMENTS SHALL BE CONSIDERED AS REQUIRING OR PERMITTING ANY WORK CONTRARY TO THE REQUIREMENTS OF ANY CODE REGULATION OR ORDINANCE WHICH HAS JURISDICTION OVER THE WORK.

11. ALL SYMBOLS & ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS ABBREVIATION OR SYMBOLS. IF THE CONTRACTOR HAS A QUESTION REGARDING THE SAME OR THEIR EXACT MEANING, THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION.

12. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE(S) DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACES, SHORES & GUYS REQUIRED TO SUPPORT ALL LOADS TO WHICH THE BUILDING STRUCTURE & COMPONENTS, ADJACENT SOILS OR STRUCTURES, UTILITIES & RIGHT-OF-WAYS MAY BE SUBJECTED DURING CONSTRUCTION.

13. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICE, THE CONTRACTOR SHALL ASSUME SOLE & COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS & PROPERTY ACCORDING TO THE REQUIREMENTS OF THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) & CALIFORNIA OCCUPATIONAL REGULATIONS [add other agencies]. THIS STIPULATION SHALL BE CONSIDERED TO BE CONTINUOUS & NOT LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL INDEMNIFY & HOLD DESIGN PROFESSIONALS, INSPECTORS, ET AL., HARMLESS FROM ANY & ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THE PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN.

14. THE DESIGN TEAM SHALL NOT HAVE CONTROL OR CHARGE OF & SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS & PROGRAMS IN CONNECTION WITH THE WORK, THE ACTS OR OMISSIONS OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, APPLICABLE CODES AND STANDARDS.

15. CONTRACTOR SHALL PROVIDE CONSTRUCTION BARRICADES OR PROTECTIVE DEVICES OF SUFFICIENT HEIGHT & MAGNITUDE AS TO PREVENT ANY PERSONS OF ANY AGE FROM ACCIDENTALLY ENTERING THE WORK AREA. PROVIDE TEMPORARY PASSAGEWAYS AS REQUIRED. YELLOW TAPE BARRICADES SHALL NOT BE ALLOWED AT THESE SITES.

16. DELIVERY OF MATERIALS TO THE CONSTRUCTION ZONE & REMOVAL OF WASTE FROM THE SITE SHALL BE COORDINATED WITH THE DISTRICT FOR AN ACCEPTABLE ACCESS ROUTE & SCHEDULE. USE OF THE AREA OUTSIDE THE CONSTRUCTION ZONE SHALL NOT BE ALLOWED UNDER ANY CIRCUMSTANCES WITHOUT CLEARANCE FROM THE SCHOOL DISTRICT OR THE OWNER'S AUTHORIZED REPRESENTATIVE.

17. CONTRACTOR SHALL INVESTIGATE THE SITE DURING CLEARING & EARTHWORK OPERATIONS, AS MAY BE REQUIRED BY THE SCOPE OF THE WORK, FOR FILLED EXCAVATIONS OR BURIED STRUCTURES, SYSTEMS, UTILITIES OR FOUNDATIONS, ETC. IF ANY SUCH STRUCTURES ARE FOUND, THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY.

18. IN DEMOLITION OF EXISTING BUILDINGS, WORK SHALL NOT BE PERFORMED IN AREA CONTAMINATED BY MATERIALS MADE OF ASBESTOS &/OR LEAD UNTIL THE ASBESTOS AND/OR LEAD MATERIALS HAVE BEEN REMOVED OR ENCAPSULATED BY THE CONTRACTOR. IF ASBESTOS OR LEAD IS ENCOUNTERED, NOTIFICATION SHALL BE GIVEN PER SPECIFICATIONS.

19. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO ENSURE SHOP DRAWINGS, PRODUCT LITERATURE, PRODUCT SAMPLES, ETC. ARE SUBMITTED TO THE ARCHITECT IN A TIMELY MANNER SO AS NOT TO IMPACT THE CONSTRUCTION SCHEDULE.

20. ALL DISSIMILAR METALS SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER TO PREVENT MOLECULAR BREAKDOWN.

21. CONTRACTOR SHALL REVIEW THE CONSTRUCTION DOCUMENTS BEFORE PERFORMING THE WORK SHOWN ON THE CONSULTING ENGINEER'S DRAWINGS. DISCREPANCIES BETWEEN THE ARCHITECTURAL & CONSULTING ENGINEER'S DRAWINGS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION FOR CLARIFICATION & DIRECTION. CONSTRUCTION INSTALLED IN CONFLICT WITH THE CONSTRUCTION DOCUMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT NO EXPENSE TO THE DISTRICT.

22. INSTALL ALL EQUIPMENT COMPLETELY AS REQUIRED AND/OR AS RECOMMENDED BY THE MANUFACTURER, INCLUDING ALL NECESSARY UTILITY CONNECTIONS, TO MAKE THE EQUIPMENT FULLY OPERATIONAL.

23. TRADE NAMES & MANUFACTURERS REFERRED TO ARE FOR QUALITY STANDARDS ONLY. SUBSTITUTION WILL BE PERMITTED AS APPROVED BY THE SCHOOL DISTRICT OR ARCHITECT OF RECORD. CONTRACTOR SHALL STIPULATE THAT ALL PROPOSED SUBSTITUTIONS ARE EQUAL IN PERFORMANCE & COMPLY WITH THE APPLICABLE CODES & REGULATIONS. SUBSTITUTIONS OF ALTERNATE MATERIALS OR SYSTEMS SHALL BE AT NO ADDITIONAL COST TO THE DISTRICT.

24. ELECTRICAL GROUNDING SHALL BE PERFORMED IN THE PRESENCE OF THE DSA BUILDING INSPECTOR OF THE WORK.

25. ALL INSPECTION & TESTING SHALL CONFORM TO THE REQUIREMENTS OF PART 1 & 2, TITLE 24, C.C.R..

26. SHOP AND FIELD WELDING OPERATIONS SHALL BE PERFORMED BY A CERTIFIED WELDER. ALL WELDING SHALL SPECIALLY INSPECTED BY AN A WS-CWI QUALIFIED INSPECTOR APPROVED BT DSA/ORS.

27. GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE COORDINATION OF THE VARIOUS TRADES PERFORMING THE WORK. CONTRACTOR SHALL SUBMIT FOR REVIEW A COMPLETE COORDINATION SCHEDULE ILLUSTRATING THE EXTENT & THE POSITION OF EACH SCOPE OF WORK TO AVOID CONFLICT & TO MAINTAIN REQUIRED SERVICE ACCESS & CODE REQUIRED CLEARANCES.

28. THE DISTRICT MUST PROVIDE FOR & REQUIRE COMPETENT, ADEQUATE. & CONTINUOUS INSPECTION BY AN INSPECTOR SATISFACTORY TO THE ARCHITECT OR REGISTERED ENGINEER IN GENERAL RESPONSIBLE CHARGE OF OBSERVATION OF THE WORK OF CONSTRUCTION, TO ANY ARCHITECT OR REGISTERED ENGINEER DELEGATED RESPONSIBILITY FOR A PORTION OF THE WORK, & TO DSA. THE COST OF THE PROJECT INSPECTION SHALL BE PAID FOR BY THE DISTRICT. AN INSPECTOR SHALL NOT HAVE ANY CURRENT EMPLOYMENT WITH ANY ENTITY THAT IS A CONTRACTING PARTY FOR THE CONSTRUCTION. AN APPROVED PROJECT INSPECTOR MAY BE REMOVED & REPLACED IF THE WORK PERFORMED IS NOT IN CONFORMANCE WITH ACCEPTED INSPECTION STANDARDS AS DETERMINED BY THE DISTRICT THE PROJECT ARCHITECT & ENGINEER WITH CONCURRENCE OF DSA. THE INSPECTOR SHALL HAVE PERSONAL KNOWLEDGE AS DEFINED IN SECTIONS 17309 & 81141 OF THE EDUCATION CODE OF ALL WORK DONE ON THE PROJECT OR ITS PARTS AS DEFINED IN SECTION 4-316 OF TITLE 24. NO WORK SHALL BE CARRIED ON EXCEPT UNDER THE INSPECTION OF A PROJECT INSPECTOR APPROVED BY DSA.THE EMPLOYMENT OF SPECIAL OR ASSISTANT INSPECTORS SHALL NOT BE CONSTRUED AS RELIEVING THE PROJECT INSPECTOR OF HIS/HER DUTIES & RESPONSIBILITIES UNDER SECTION 17309 & 81141 OF THE EDUCATION CODE AND SECTIONS 4-336 & 4342 OF TITLE24. A PROJECT INSPECTOR SHALL, UNDER THE DIRECTION OF THE ARCHITECTAND/OR ENGINEER, BE RESPONSIBLE FOR MONITORING THE WORK OF THE SPECIAL INSPECTORS AND TESTING LABORATORIES TO ENSURE THAT THE TESTING PROGRAM IS SATISFACTORILY COMPLETED. THE PROJECT INSPECTOR AND ANY ASSISTANT INSPECTOR MUST BE APPROVED BY DSA.

29. THE INTENT OF THE DRAWINGS & SPECIFICATIONS IS TO MODIFY THE FACILITY FOR ACCESSIBILITY IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONSTRUCTION DOCUMENTS SUCH THAT THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CCD DETAILING & SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO & APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK-SECTION 4-417, PART 1, TITLE 24, CCR.

30. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CCD, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.

31. CUTTING, BORING SAWCUTTING OR DRILLING THROUGH THE EXISTING OR NEW STRUCTURAL ELEMENTS IS NOT TO BE STARTED UNTIL THE DETAILS HAVE BEEN REVIEWED & APPROVED BY THE ARCHITECT, STRUCTURAL ENGINEER & THE DSA FIELD ENGINEER IF DETAILS DO NOT SHOW OR CONFORM TO THE APPROVED DRAWINGS.

32. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT SHALL CONDUCT ALL THE REQUIRED TESTS & INSPECTION FOR THE PROJECT.

33. 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, CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 424, CCR).

34. A "DSA CERTIFIED" INSPECTOR WITH CLASS 3 CERTIFICATION IS REQUIRED FOR THIS PROJECT.

35. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISH WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CONSTRUCTION CHANGE DOCUMENT (CCD) OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT BEFORE PROCEEDING WITH THE WORK. REFERENCE SECTION 4-317 (c), CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR)

36. IF ANY CONDITIONS IS DISCOVERED WHICH, IF LEFT UNCORRECTED, WOULD MAKE THE BUILDING NON-COMPLIANT WITH THE REQUIREMENTS OF THE EDITION OF THE CBC IN FORCE AT THE TIME OF ORIGINAL CONSTRUCTION, THE CONDITION MUST BE CORRECTED IN ACCORDANCE WITH CURRENT CODE REQUIREMENTS. A CONSTRUCTION CHANGE DOCUMENT, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK.

GENERAL SYMBOLS

SCOPE OF WORK

RELOCATION OF 2 24'X40' RELOCATABLE BUILDINGS (STOCKPILE) FOR A TOTAL OF 1,920 SF. BOTH BUILDINGS ARE FOR PERMANENT USE. ONE BUILDING IS A STOCKPILE #04-102724 AND THE OTHER ONE IS A MODIFIED STOCKPILE #04-119361

VICINITY MAP ENCINITA E.S. SITE

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PROJECT SITE
ENCINITA ELEMENTARY SCHOOL

SHEET INDEX

NO.	SHT.	SHEET TITLE	NO.	SHT.	SHEET TITLE
01	G0.1	TITLE SHEET, INDEX, AND NOTES	PC 04-119361 - Universal Wood Foundation		
02	G0.2	FIRE ACCESS PLAN	46	F-1	COVER SHEET
03	C1.01	TITLE SHEET AND GENERAL NOTES	47	F-1A	APPLICATION NUMBERS
04	C2.01	TYPICAL DETAILS	48	F-1B	APPLICATION NUMBERS
05	C3.01	SITE DEMOLITION PLAN	49	F-2	24X40 PLAN
06	C4.01	PRECISE GRADING PLAN	50	F-3	36X40 PLAN
07	C5.01	SITE UTILITY PLAN	51	F-4	48X40 PLAN
08	C6.01	EROSION CONTROL PLAN	52	F-5	DETAILS
09	A1.01	SITE PLAN	53	F-6	NOTES & DETAILS
10	A2.7	ENLARGED RESTROOM PLAN	54	F-7	12X40 PLAN
11	A8.01	GATE DETAILS	55	F-8	UNDER-FLOOR VENT. CALC. FOR MULTI-
12	A8.02	SITE DETAILS	56	F-9	SPECIFICATIONS
13	A8.04	SIGNAGE DETAILS	PC 04-119471 - Accessible Ramp Landing Stair PC		
14	FA1.01	SYMBOL LIST AND NOTES	57	R-1	COVER SHEET
15	FA1.02	FIRE ALARM SCHEDULES AND CALC	58	R-2	DSA 103 TEST & SPECIAL INSP. SAMPLE
16	FA1.03	FIRE ALARM DETAILS	59	R-3	CONSTRUCTION SPEC, AND NOTES
17	FA1.04	FIRE ALARM RISER DIAGRAM	60	R-4	STANDARD RAMP PLAN
18	FA2.01	FIRE ALARM SITE PLAN	61	R-5	OFFSET RAMP PLAN
19	FA3.01	FIRE ALARM PLAN	62	R-6	COMMON LANDING PLAN
PC 04-101055 - Classroom Re-locatable Stockpile			63	R-7	STAIR AND LANDING PLAN AND DETAILS
20	RELO-0	COVER SHEET, INDEX, BLDG DATA	64	R-8	SWITCHBACK RAMP PLAN
21	RELO-A1.0	FLOOR PLAN 24X40	65	R-9	STAIR AND LANDING PLAN AND DETAILS
22	RELO-A1.1	FLOOR PLAN 24X40			
23	RELO-A2.0	EXTERIOR ELEVATIONS 24X40			
24	RELO-A2.1	EXTERIOR ELEVATIONS 24X40 W/ REST.			
25	RELO-A3.0	INTERIOR ELEVATIONS 24X40			
26	RELO-A3.1	INTERIOR ELEVATIONS 24X40 W/ REST.			
27	RELO-A4.0	ROOF PLAN GABLE ROOF			
28	RELO-A5.0	REFLECTED CEILING PLAN 24X40			
29	RELO-A5.1	REFLECTED CEILING PLAN W/ REST.			
30	RELO-F-1	FOUNDATION PLANS WOOD			
31	RELO-F-4	WOOD FOUNDATION PLAN DETAILS			
32	RELO-S1.0	BUILDING SECTIONS WALL FRAMING			
33	RELO-S1.1	BUILDING SECTIONS WALL FRAMING			
34	RELO-S3.0	TYPICAL DETAILS PLYWD EXTERIOR			
35	RELO-S4.0	GABLE ROOF FLOOR FRAMING, ROOF FR.			
36	RELO-S5.0	GABLE STEEL TRUSS SECTION AND DET.			
37	RELO-S6.1	STRUCTURAL DETAILS AND NOTES			
38	RELO-E1.0	ELECTRICAL POWER AND LIGHTING PLAN			
39	RELO-E1.1	LIGHTING & ELECTRICAL POWER PLAN			
40	RELO-9	GENERAL NOTES SPECIFICATIONS			
41	RELO-9.1	DOOR SCHEDULE WIND. SCHEDULE FIN.			
42	RELO-R1.0	RAMP PLAN AND DETAILS			
43	RELO-M1	AIR CONDITIONING PLAN VIEW			
44	RELO-M1.1	AIR CONDITIONING PLAN VIEW W/ REST.			
45	RELO-P1.0	PLUMBING DETAILS			
Total Sheets = 65					

APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2019

PART 1 2022 BUILDING STANDARDS ADMINISTRATIVE CODE, TITLE 24 C.C.R.

PART 2 2019 CALIFORNIA BUILDING CODE, TITLE 24 C.C.R.

PART 3 2019 CALIFORNIA ELECTRICAL CODE, TITLE 24 C.C.R.

PART 4 2019 CALIFORNIA MECHANICAL CODE, TITLE 24 C.C.R.

PART 5 2019 CALIFORNIA PLUMBING CODE, PART 5, TITLE 24 C.C.R.

PART 6 2019 CALIFORNIA ENERGY CODE, TITLE 24 C.C.R.

PART 9 2019 CALIFORNIA FIRE CODE, TITLE 24 C.C.R.

PART 12 2019 CALIFORNIA REFERENCED STANDARDS, TITLE 24 C.C.R.

TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

FLOOD MAP

DIRECTORY

ARCHITECT:
NAC | ARCHITECTURE
837 NORTH SPRING ST. THIRD FLOOR
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700 S FLOWER ST #1200
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TEL: 213-596-4500
CONTACT: EDGARD S MELO
EMAIL: ed.melo@bjsce.com

FIRE ALARM:
PACIFIC ENGINEERS GROUP
1106 WEST MAGNOLIA, STE A
BURBANK, CA. 91506
TEL: 818-859-781
CONTACT: Jimmy Fong
EMAIL: jimmyfong@pacificeng.net

CODE ANALYSIS

TYPE OF CONSTRUCTION: TYPE V-B NON-SPRINKLERED
ALLOWABLE AREA= 9,500 S.F.
ACTUAL AREA= 2,340 S.F. (INCLUDING OVERHANGS FOR BOTH BUILDINGS)
OCCUPANCY= E-1
OCCUPANT LOAD: 960 S.F./20 S.F. PER OCCUPANT= 48 OCCUPANTS PER BUILDING X2= 96 OCCUPANTS

GEOTECHNICAL INFORMATION

GEOTECHNICAL REPORT MY ASSOCIATED SOILS ENGINEERING, DATED JUNE 29, 2022.
DESIGN LOAD BEARING VALUES OF SOIL AS PER GEOTECHNICAL REPORT PAGES 17 AND 19
WIND DESIGN DATA: 110 MPH
EARTHQUAKE DESIGN DATED PER PAGES 18 THRU 21 OF THE GEOTECHNICAL REPORT

STATEMENT OF GENERAL CONFORMANCE

FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS (APPLICATION NO. A# 03-122690 FILE NO. 19-91)

(APPLICATION NO. **A# 03-122690** **FILE NO.** **19-91** **)**

☒ THE DRAWINGS OR SHEETS LISTED ON THE COVER OR ASSOCIATED WITH 03-122690
☐ THIS DRAWING, PAGE OF SPECIFICATIONS/CALCULATIONS

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

1. DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND
2. COORDINATION WITH MY PLANS AND SPECIFICATIONS AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

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

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

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

SIGNATURE — DATE: 11/10/2022
ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE
PRINT NAME: HELENA JUBANY
LICENSE NUMBER: C-22214
EXPIRATION DATE: 05/31/2023

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

SIGNATURE — DATE
ARCHITECT OR ENGINEER DELEGATED RESPONSIBILITY FOR THIS PORTION OF THE WORK
PRINT NAME
LICENSE NUMBER
EXPIRATION DATE

DSA # 03-122690
FILE NO: 19-91

HELENA L. JUBANY
22214
REN. 5-31-23

DRAWINGS, SPECIFICATIONS AND OTHER VISUAL AIDS, AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF THE ARCHITECT WHETHER THE PROJECT FOR WHICH THEY ARE MADE BE EXECUTED OR NOT, AND THEY ARE NOT TO BE USED FOR ANY OTHER SITE THAN THE ONE FOR WHICH THEY ARE PREPARED, EXCEPT BY AGREEMENT IN WRITING.

ROSEMEAD SCHOOL DISTRICT
RSD - ENCINITA ELEMENTARY SCHOOL
CONSTRUCTION OF RE-LOCATABLES

ROSEMEAD
SCHOOL DISTRICT
PARK ROSEMEAD
4515 ENCINITA AVENUE
ROSEMEAD CA 91770

JUBANY NAC | ARCHITECTURE
837 N. SPRING ST. | LOS ANGELES CA 90012-2323 | P: 323.475.8075 | F: 323.859.3110
WWW.NACARCHITECTURE.COM

NAC NO: 161-22104
FILE: -
DRAWN:
CHECKED: -
DATE: 02-06-2023

DSA SUBMITTAL
G0.1
TITLE SHEET, INDEX TO DRAWINGS AND NOTES

FIRE ACCESS PLAN - GENERAL NOTES

CFC 3310.1 REQUIRED ACCESS:
APPROVED VEHICLE ACCESS FOR FIRE FIGHTING SHALL BE PROVIDED TO ALL CONSTRUCTION OR DEMOLITION SITES. VEHICLE ACCESS SHALL BE PROVIDED WITHIN 150 FEET OF TEMPORARY OR PERMANENT FIRE DEPARTMENT CONNECTIONS. VEHICLE ACCESS SHALL BE PROVIDED BY EITHER TEMPORARY OR PERMANENT ROADS, CAPABLE OF SUPPORTING VEHICLE LOADING UNDER ALL WEATHER CONDITIONS. VEHICLE ACCESS SHALL BE MAINTAINED UNTIL PERMANENT FIRE APPARATUS ACCESS ROADS ARE AVAILABLE.

3310.2 KNOX BOXES:
KNOX BOXES SHALL BE PROVIDED AS REQUIRED BY CHAPTER 5.

FIRE DEPARTMENT ACCESS DURING CONSTRUCTION

THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ACCESS FOR FIRE TRUCKS TO WITHIN 150' OF THE PERIMETER OF THE NEW TENT STRUCTURE. DURING CONSTRUCTION, ACCESS SHALL BE PROVIDED STARTING NO LATER THAN THE COMPLETION OF EXCAVATION AND FOUNDATIONS, BUT PRIOR TO STOCKPILING COMBUSTIBLE MATERIAL ON SITE, AND SHALL BE MAINTAINED CONTINUOUSLY THROUGHOUT THE REMAINING DURATION OF CONSTRUCTION. FIRE TRUCK ACCESS SHALL BE VIA COMPACTED EARTH DRIVEWAYS MINIMUM TWENTY FEET WIDE WITH MINIMUM INSIDE TURING RADII OF TWENTY FEET. THESE DRIVEWAYS SHALL BE MAINTAINED IN GOOD CONDITION BY THE CONTRACTOR DURING CONSTRUCTION AND SHALL REMAIN CLEAR AND UNOBSTRUCTED AT ALL TIME.

BUILDING CODE ANALYSIS

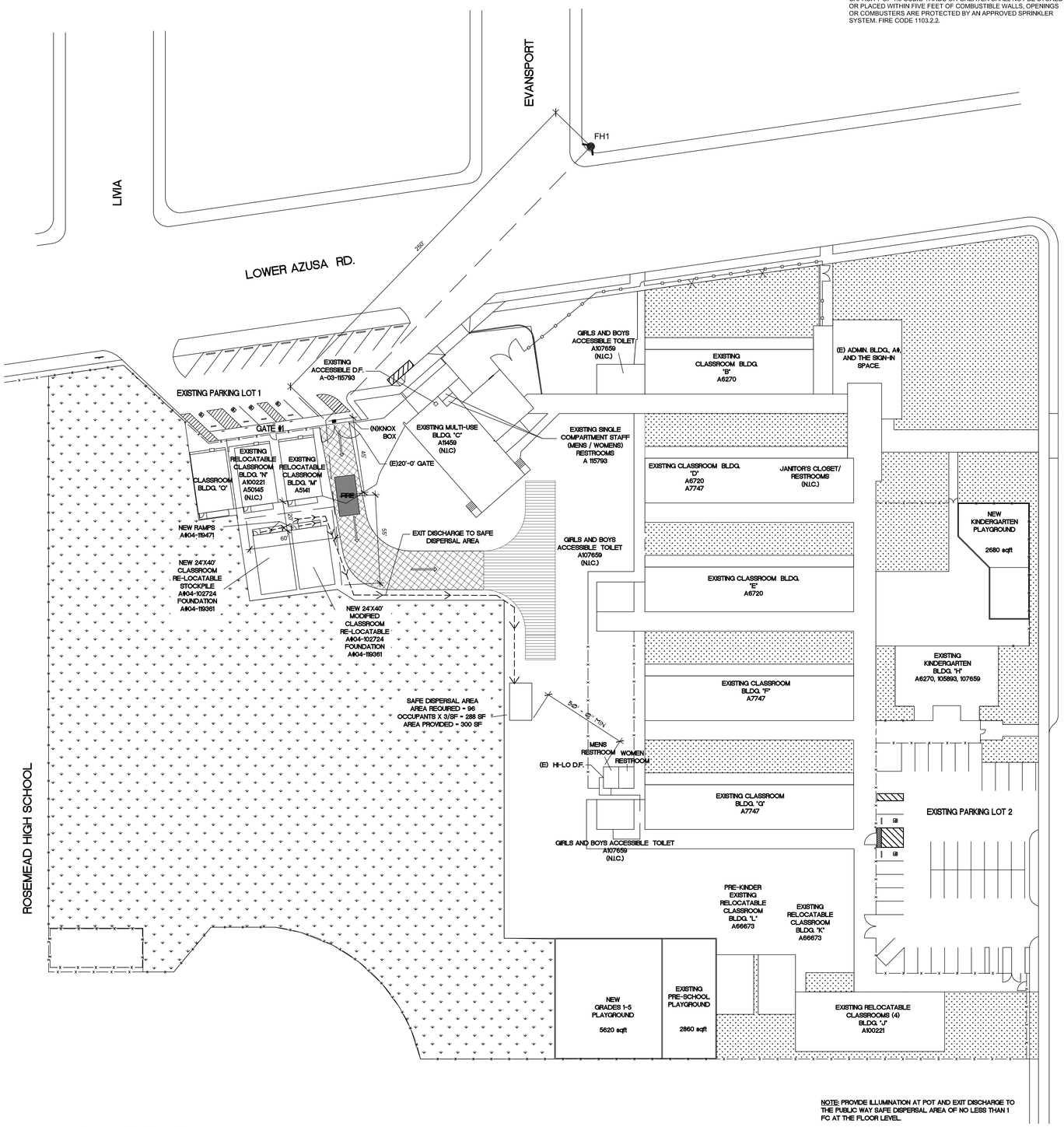
CONSTRUCTION OF 2 NEW 24X40 RELOCATABES
CODE ANALYSIS:

TYPE OF CONSTRUCTION: TYPE V-B
ALLOWABLE AREA = 9,500 SF
PROPOSED AREA = 1,920 SF < 9,500 SF, OK

HYDRANT FLOW REQUIREMENT FOR THE NEW RELOS PER CFC, APPENDIX BB, TABLE BB 105.1 = 1,500 GPM AT 20 PSI FOR A DURATION OF 2 HOURS.
2600GPM AT 20 PSI. HYDRANT FLOW PROVIDED AT (E) FH1
(SEE ATTACHED FIRE FLOW)

FIRE DEPARTMENT NOTES

1. PROVIDE A MINIMUM UNOBSTRUCTED WIDTH OF 26 FEET AND A MINIMUM UNOBSTRUCTED VERTICAL CLEARANCE OF 13 FEET 6 INCHES. VEHICULAR ACCESS TO WITHIN MINIMUM 150 FEET OF ALL PORTION OF EXTERIOR WALLS. FIRE CODE 902.2.1.
2. THE REQUIRED FIRE FLOW FOR PUBLIC FIRE HYDRANTS AT THIS LOCATION IS 1,500 GALLONS PER MINUTE AT 20 PSI FOR THE DURATION OF 2 HOURS, OVER AN ABOVE MAXINUM DAILY DOMESTIC DEMAND.
3. THE REQUIRED FIRE FLOW FOR ON-SITE HYDRANTS IS 1,500 GALLONS PER MINUTE AT 20 PSI. EACH ON-SITE HYDRANTS MUST BE CAPABLE OF FLOWING 1,500 GALLONS PER MINUTE AT 20 PSI WITH ANY TWO HYDRANTS FLOWING SIMULTANEOUSLY.
4. VEHICULAR ACCESS MUST BE PROVIDED AND MAINTAINED SERVICEABLE THROUGHOUT CONSTRUCTION. SEE NOTE ON THIS SHEET REGARDING FIRE DEPT. ACCESS DURING CONSTRUCTION.
5. COMMERCIAL DUMPSTERS OR CONTAINERS WITH AN INDIVIDUAL CAPACITY OF 1.5 CUBIC YARDS OR GREATER SHALL NOT BE STORED OR PLACED WITHIN FIVE FEET OF COMBUSTIBLE WALLS. OPENINGS OR COMBUSTERS ARE PROTECTED BY AN APPROVED SPRINKLER SYSTEM. FIRE CODE 1103.2.2.



NOTE: PROVIDE ILLUMINATION AT POT AND EXIT DISCHARGE TO THE PUBLIC WAY SAFE DISPERSAL AREA OF NO LESS THAN 1 FC AT THE FLOOR LEVEL.

1 ENSINITA ES - SITE PLAN
SCALE: 1/32"=1'-0"

FORM 196
Rev. 09/20

COUNTY OF LOS ANGELES FIRE DEPARTMENT
FIRE PREVENTION DIVISION
Fire Prevention Engineering
5823 Rickenbacker Road
Los Angeles, CA 90040
Telephone (323) 890-4125 Fax (323) 890-4129

Information on Fire Flow Availability for Building Permit

For All Buildings Other Than One and Two Family Dwellings (R-3), Townhomes, and Accessory Dwelling Unit's

INSTRUCTIONS:

Complete parts I & II:

Verifying fire flow, fire hydrant location and fire hydrant size.

PROJECT INFORMATION
(To be completed by applicant)

PART I

Building Address: 4515 Encinita Ave., Rosemead, CA 91770
City or Area: Rosemead APN: 8592-018-903.
Nearest Cross Street: Lower Azusa Road
Distance of Nearest Cross Street to Property Line: adjacent
Applicant: Rosemead School District Telephone: ( )
Address: 3907 Rosemead Blvd.
City: Rosemead
Occupancy (Use of Building): E Fire Sprinklered: Yes ☐ No ☒
Type of Construction: Type V-B
Square Footage: 1920 Number of Stories: 1

Applicant's Signature — Date: 5.17.22

PART II — **INFORMATION ON FIRE FLOW AVAILABILITY**
(Part II to be completed by Water Purveyor)

Location of hydrant: Corner of Evansport Drive and Lower Azusa Road — Hydrant Number
Distance from Nearest Property Line: 100 feet — Size of Hydrant: 4-inch — Size of Water main: 6-inch
Static PSI: 72 psi — Residual PSI: 58 psi — Orifice size: 2.5-inch — Pitot: 43 psi 1,100 gpm
Fire Flow at 20 PSI: 2,600 gpm — Duration: (hyd. model) — ☐ Flow Test Date / Time (hyd. model) ☒ Hydraulic model

Location of hydrant: Corner of Encinita Avenue and Lower Azusa Road — Hydrant Number
Distance from Nearest Property Line: 0 feet — Size of Hydrant: 6-inch — Size of Water main: 12-inch
Static PSI: 74 psi — Residual PSI: 63 psi — Orifice size: 2.5-inch — Pitot: 51 psi 1,200 gpm
Fire Flow at 20 PSI: 4,200 gpm — Duration: (hyd. model) — ☐ Flow Test Date / Time (hyd. model) ☒ Hydraulic model

☒ (Check box if Simultaneous/ Dual flow test was performed) Combined flow at 20 psi: 4,200 gpm

Location of hydrant: — Hydrant Number
Distance from Nearest Property Line: — Size of Hydrant: — Size of Water main:
Static PSI: — Residual PSI: — Orifice size: — Pitot:
Fire Flow at 20 PSI: — Duration: — ☐ Flow Test Date / Time ☐ Hydraulic model

☐ (Check box if Simultaneous/ Triple flow test was performed) Combined flow at 20 psi:

California American Water — Water Purveyor
Signature
(626) 814-3574 — Phone Number — 6/21/2022 — Date — Engineering Supervisor — Title

This Information is Considered Valid for Twenty Four Months

Fire Department approval of building plans shall be required prior to the issuance of a Building Permit by the jurisdictional Building Department. Any deficiencies in water systems will need to be resolved by the Fire Prevention Division only prior to this department's approval of building plans.

415 Shatto Avenue

DGS DSA 810 (revised 12/29/20)
DIVISION OF THE STATE ARCHITECT — DEPARTMENT OF GENERAL SERVICES — Page 1 of 4 — STATE OF CALIFORNIA

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:	Rosemead School District
Project Name/School:	Encinita Elementary School
Project Address:	4515 Encinita Ave, Rosemead CA 91770

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

DGS DSA 810 (revised 12/29/20)
DIVISION OF THE STATE ARCHITECT — DEPARTMENT OF GENERAL SERVICES — Page 2 of 4 — STATE OF CALIFORNIA

DSA 810
FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

CONDITION MEANS AND METHODS RESCLUTION		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 fow 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:	COUNTY OF LOS ANGELES FIRE DEPARTMENT
LFA Review Official:	MICHAEL BRAVO
Title:	FIRE PREVENTION ENG ASSIST II
Work Phone:	323-890-4125
Work Email:	michael.bravo@fire.lacounty.gov
	COUNTY OF LOS ANGELES FIRE DEPARTMENT FIRE PREVENTION ENGINEERING
LFA Reviewer's Signature:	

APPROVED
By M. Bravo
Fire Prevention Engineer
Date 01/19/2023
FEPC 2022-3760

DGS DSA 810 (revised 12/29/20)
DIVISION OF THE STATE ARCHITECT — DEPARTMENT OF GENERAL SERVICES — Page 3 of 4 — STATE OF CALIFORNIA

DSA # 03-122690
FILE NO: 19-91

LICENSED ARCHITECT ELENA L. JUBANY 22214 REN. 5-31-23 STATE OF CALIFORNIA

DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS PREPARED BY THIS SERVICE ARE THE PROPERTY OF THE ARCHITECT WHETHER THE PROJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT AND THEY ARE NOT TO BE USED FOR ANY OTHER SITE THAN THE ONE FOR WHICH THEY ARE SPECIFICALLY PREPARED, EXCEPT BY AGREEMENT IN WRITING.

LEGEND

- EXISTING FIRE HYDRANT 4" FLOW = 2,600 GPM @ 20 PSI — FH-1
- (E) FIRE APPARATUS ACCESS ROAD PER DSA #03-115793
- FIRE APPARATUS ACCESS ROAD TURN AROUND - 120' HAMMER HEAD — 60' 60' 20' 26' 26' TYP.
- FIRE — FIRE APPARATUS
- GATE #1 — (E) GATE #1 4'-6"W X 7'-0"H W/ LEVER HARDWARE

FIRE ACCESS PLAN
SCALE: 1/32"= 1' - 0"

ROSEMEAD SCHOOL DISTRICT
RSD - ENCINITA ELEMENTARY SCHOOL
CONSTRUCTION OF RE-LOCATABLES

ROSEMEAD SCHOOL DISTRICT
PARK ROSEMEAD
4515 ENCINITA AVENUE
ROSEMEAD CA 91770

JUBANY NAC ARCHITECTURE
837 N. SPRING ST. | LOS ANGELES, CA 90012-2323 | P: 323.478.9670 | F: 323.969.3110
WWW.NACARCHITECTURE.COM

NAC NO	161-22104
FILE	-
DRAWN	HH
CHECKED	GC
DATE	11-10-2022

DSA SUBMITTAL

G0.2

GENERAL NOTES:

1. ALL WORK DETAILED ON THESE PLANS SHALL BE CONSTRUCTED IN ACCORDANCE WITH "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION," STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION AND SUPPLEMENTS), THE UNIFORM BUILDING CODE (FOR EXCAVATION AND GRADING), CALIFORNIA BUILDING CODE (CBC) AND GUSD STANDARD PLANS.
2. ALL GEOTECHNICAL RECOMMENDATIONS IMPOSED BY THE CONSULTANT OR CONTAINED IN THE CONSULTANT GEOTECHNICAL REPORT ARE TO BE COMPLIED WITH AND ARE HEREBY MADE AN INTEGRAL PART OF THE GRADING SPECIFICATIONS AND NOTES.

GEOTECHNICAL REPORT DATED:	06/29/2022
REPORT NUMBER:	7062.22
PREPARED BY:	ASSOCIATED SOILS ENGINEERING, INC.

3. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR, REPLACEMENT, AND MAINTENANCE OF EROSION CONTROL PLAN.
4. PRIOR TO POURING OF CONCRETE, THE GEOTECHNICAL ENGINEER SHALL INSPECT AND APPROVE THE FOOTING EXCAVATIONS AND LEAVE A CERTIFICATE ON THE SITE FOR THE PROJECT INSPECTOR AND THE CONTRACTOR. NO CONCRETE SHALL BE POURED UNTIL THE PROJECT INSPECTOR HAS ALSO INSPECTED AND APPROVED THE FOOTING EXCAVATIONS.
5. IF AT ANY TIME DURING THE GRADING AND EXCAVATION OPERATIONS, UNFAVORABLE SOILS CONDITIONS ARE ENCOUNTERED, THE WORK SHALL STOP UNTIL APPROVED CORRECTIVE MEASURES ARE OBTAINED.
6. ALL GRADES AND CONTOURS INDICATED ON THE PLANS ARE TO FINISHED SURFACE, AND NOT ROUGH GRADES. CONTRACTOR SHALL SUBTRACT THE STRUCTURAL THICKNESS OF PAVEMENTS AND TOP-SOIL THICKNESS IN LANDSCAPED AREAS, TO OBTAIN DESIRED ROUGH GRADES.
7. NO FILL TO BE PLACED, UNTIL THE PROJECT INSPECTOR HAS INSPECTED AND APPROVED THE BOTTOM EXCAVATION.
8. ALL CONCENTRATED DRAINAGE MUST BE CONDUCTED TO THE STREET IN APPROVED NON-EROSIVE DEVICES OR TO EXISTING STORM DRAIN SYSTEM.
9. EXCAVATIONS SHALL BE MADE IN ACCORDANCE WITH THE REGULATIONS OF THE STATE OF CALIFORNIA, DIVISION OF INDUSTRIAL SAFETY. ALL EXCAVATIONS SHALL BE STABILIZED WITHIN 30 DAYS OF INITIAL EXCAVATION. ALL TEMPORARY EXCAVATIONS SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.
10. MAN MADE FILL SHALL BE COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 90% MAX. DRY DENSITY, UNLESS A LOWER RELATIVE COMPACTION (NO LESS THAN 90% OF MAX. DRY DENSITY) IS JUSTIFIED BY THE SOILS ENGINEER.
11. THIS PLAN IS FOR GRADING PURPOSES ONLY AND DOES NOT CONSTITUTE APPROVAL OF BUILDINGS.
12. ALL DEBRIS AND FOREIGN MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT APPROVED DISPOSAL SITES. THE CONTRACTOR SHALL OBTAIN NECESSARY PERMITS FOR THE TRANSPORTATION OF MATERIAL TO AND FROM THE SITE.
13. EXISTING TOPOGRAPHY SHOWN HEREON WAS TAKEN FROM A SURVEY DATED MARCH 9, 2022 BY CAL VADA SURVEYING, INC.
14. CONSTRUCTION STAKING FOR IMPROVEMENTS SHOWN ON THESE PLANS SHALL BE PERFORMED BY A LICENSED LAND SURVEYOR.
15. STRAIGHT GRADE SHALL BE MAINTAINED BETWEEN CONTOUR LINES AND SPOT ELEVATIONS UNLESS OTHERWISE SHOWN ON THE PLANS.
16. DIMENSIONS TO PIPELINES ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
17. ALL DIMENSIONS ARE IN FEET OR DECIMALS THEREOF.
18. ALL CURB DIMENSIONS AND RADII ARE TO BOTTOM OF CURB FACE.
19. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800-422-4133) PRIOR TO ANY EXCAVATION.
20. CONTRACTOR TO BE AWARE OF ALL OVERHEAD LINES AT ALL TIMES, SO AS NOT TO DISTURB THEM.
21. CONTRACTOR SHALL COORDINATE REMOVAL OR RELOCATION OF ANY PUBLIC UTILITY LINES (IF ENCOUNTERED DURING CONSTRUCTION) WITH THEIR RESPECTIVE OWNERS. SEPARATE PERMITS MAY BE REQUIRED.
22. THE CONTRACTOR SHALL REPLACE ALL EXISTING IMPROVEMENTS DAMAGED DURING CONSTRUCTION AT HIS OWN EXPENSE AND TO THE SATISFACTION OF THE OWNER. MATCH EXISTING MATERIALS, SURFACE TREATMENT, AND COLORS. SAME SHALL APPLY TO PERMANENT UTILITY TRENCH RESURFACING.
23. STORM DRAINAGE SHOWN ON THESE PLANS HAVE BEEN DESIGNED FOR THE FINAL SITE CONDITION AT COMPLETION OF THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ADEQUATE DRAINAGE OF THE SITE, DURING INTERIM CONDITIONS OF CONSTRUCTION.
24. CUT AND FILL SLOPES SHALL BE NO STEEPER THAN TWO HORIZONTAL ONE VERTICAL.
25. ANY TEMPORARY STOCKPILING OF EXCESS MATERIAL ON SITE SHALL BE APPROVED BY THE PROJECT INSPECTOR AND THE OWNER'S AUTHORIZED REPRESENTATIVE, INCLUDING PROTECTION AND EROSION CONTROL, PRIOR TO EXCAVATION.
26. PROJECT INSPECTOR IS REQUIRED ON GRADING AND FOUNDATION EARTHWORK.
27. STAKE AND FLAG THE PROPERTY LINES IN ACCORDANCE WITH A LICENSED SURVEY MAP.
28. CONTINUOUS INSPECTION BY THE SOIL ENGINEER/GEOLOGIST IS REQUIRED AS DESCRIBED IN THE SOIL REPORT.
29. FIRE SAFETY DURING DEMOLITION AND CONSTRUCTION SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF THIS CODE AND THE APPLICABLE PROVISIONS OF CHAPTER 33 OF CFC.

NOTICE TO CONTRACTORS:

1. PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL JOIN ELEVATION CONDITIONS FOR GRADING AND DRAINAGE WORK. IF CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND SHALL NOT BEGIN CONSTRUCTION UNTIL THE CHANGED CONDITIONS HAVE BEEN EVALUATED.
2. THE EXISTENCE, LOCATION AND CHARACTERISTICS OF UNDERGROUND UTILITY INFORMATION SHOWN ON THESE PLANS HAVE BEEN OBTAINED FROM A REVIEW OF AVAILABLE RECORD DATA. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID UTILITY INFORMATION. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
3. THE CONTRACTOR FURTHER SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY, AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT
4. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE PLANS, THE SOILS AND/OR GEOLOGY REPORTS, AND THE SITE CONDITIONS PRIOR TO COMMENCING WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR THE ENGINEER, PRIOR TO THE START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND NOT TO THE EXPENSE OF THE OWNER OR ENGINEER.
6. ALL CHANGES TO THE CONSTRUCTION DOCUMENTS FOR THIS PROJECT SHALL BE DONE IN WRITING AND APPROVED BY THE ENGINEER OF RECORD. THE ENGINEER SHALL NOT BE RESPONSIBLE, OR LIABLE FOR UNAUTHORIZED CHANGES OR USES OF THE CONSTRUCTION DOCUMENTS.
7. SHOULD CONFLICTING INFORMATION BE FOUND ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE PROJECT ARCHITECT OR ENGINEER BEFORE PROCEEDING WITH THE WORK IN QUESTION.
8. THE CONTRACTOR SHALL OBTAIN AN OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (O.S.H.A.) PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY PRIOR TO THE CONSTRUCTION OF TRENCHES OR EXCAVATIONS WHICH ARE 5 FEET OR DEEPER.
9. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.

ENVIRONMENTAL QUALITY NOTES:

A. ALL UNPAVED DEMOLITION AND CONSTRUCTION AREAS SHALL BE WETTED AT LEAST TWICE DAILY DURING EXCAVATION AND CONSTRUCTION, AND TEMPORARY DUST COVERS SHALL BE USED TO REDUCE DUST EMISSIONS AND MEET SCAQMD DISTRICT RULE 403.

B. THE CONTRACTOR SHALL KEEP THE CONSTRUCTION AREA SUFFICIENTLY DAMPENED TO CONTROL DUST CAUSED BY CONSTRUCTION AND HAULING, AND AT ALL TIMES PROVIDE REASONABLE CONTROL OF DUST CAUSED BY WIND.

C. EROSION CONTROL TO BE INSTALLED YEAR ROUND THROUGHOUT ENTIRE PROJECT. OBTAIN GRADING INSPECTOR'S APPROVAL OF PROPOSED PROCEDURES.

D. ALL LOADS SHALL BE SECURED BY TRIMMING, WATERING OR OTHER APPROPRIATE MEANS TO PREVENT SPILLAGE AND DUST.

E. ALL MATERIALS TRANSPORTED OFF-SITE SHALL BE EITHER SUFFICIENTLY WATERED OR SECURELY COVERED TO PREVENT EXCESSIVE AMOUNT OF DUST.

F. ALL CLEARING, EARTH MOVING, OR EXCAVATION ACTIVITIES SHALL BE DISCONTINUED DURING PERIODS OF HIGH WINDS (I.E., GREATER THAN 15 MPH), SO AS TO PREVENT EXCESSIVE AMOUNTS OF DUST.

G. GENERAL CONTRACTORS SHALL MAINTAIN AND OPERATE CONSTRUCTION EQUIPMENT SO AS TO MINIMIZE EXHAUST EMISSIONS.

H. THE PROJECT SHALL COMPLY WITH THE NOISE ORDINANCES WHICH PROHIBIT THE EMISSION OR CREATION OF NOISE BEYOND CERTAIN LEVELS AT ADJACENT USES UNLESS TECHNICALLY INFEASIBLE.

I. CONSTRUCTION AND DEMOLITION SHALL BE RESTRICTED TO THE HOURS OF 7:00 AM TO 6:00 PM MONDAY THROUGH FRIDAY, AND 8:00 AM TO 6:00 PM ON SATURDAY.

J. CONSTRUCTION AND DEMOLITION ACTIVITIES SHALL BE SCHEDULED SO AS TO AVOID OPERATING SEVERAL PIECES OF EQUIPMENT SIMULTANEOUSLY.

K. THE PROJECT CONTRACTOR SHALL USE POWER CONSTRUCTION EQUIPMENT WITH STATE-OF-THE-ART NOISE SHIELDING AND MUFFLING DEVICES.

L. THE CONTRACTOR SHALL COMPLY WITH THE NOISE INSULATION STANDARDS OF TITLE 24 OF THE CALIFORNIA CODE REGULATIONS, WHICH INSURE AN ACCEPTABLE INTERIOR NOISE ENVIRONMENT.

M. ALL WASTE SHALL BE DISPOSED OF PROPERLY. USE APPROPRIATELY LABELED RECYCLING BINS TO RECYCLE CONSTRUCTION MATERIALS INCLUDING: SOLVENTS, WATER-BASED PAINTS, VEHICLE FLUIDS, BROKEN ASPHALT AND CONCRETE, WOOD, AND VEGETARIAN. NON RECYCLABLE MATERIALS/WASTES SHALL BE TAKEN TO AN APPROPRIATE LANDFILL. TOXIC WASTES MUST BE DISCARDED AT A LICENSED REGULATED DISPOSAL SITE.

O. PAVEMENT SHALL NOT BE HOSED DOWN AT MATERIAL SPILLS. DRY CLEANUP METHODS SHALL BE USED WHENEVER POSSIBLE.

P. DUMPSTERS SHALL BE COVERED AND MAINTAINED. UNCOVERED DUMPSTERS SHALL BE PLACED UNDER A ROOF OR BE COVERED WITH TARPS OR PLASTIC SHEETING.

Q. GRAVEL APPROACHES SHALL BE USED WHERE TRUCK TRAFFIC IS FREQUENT TO REDUCE SOIL COMPACTION AND THE TRACKING OF SEDIMENT INTO STREETS SHALL BE LIMITED.

R. ALL VEHICLE/EQUIPMENT MAINTENANCE, REPAIR, AND WASHING SHALL BE CONDUCTED AWAY FROM STORM DRAINS. ALL MAJOR REPAIRS SHALL BE CONDUCTED OFF-SITE. DRIP PANS OR DROP CLOTHES SHALL BE USED TO CATCH DRIPS AND SPILLS.

ACCESSIBILITY NOTES:

CALIFORNIA ACCESS COMPLIANCE, TITLE 24 CCR

1. WALKS AND SIDEWALK SURFACE CROSS SLOPES SHALL NOT EXCEED 1/4" PER FOOT (2% GRADIENT) (SEC. 11B-403.3)
2. WHEN THE SLOPE IN THE DIRECTION OF TRAVEL OF ANY WALK EXCEEDS 1:20 (5% GRADIENT) IT SHALL COMPLY WITH THE PROVISIONS OF SECTION 11B-401 AS A PEDESTRIAN RAMP (SEC. 11B-403.3)
3. WALK AND SIDEWALK SURFACES WITH A SLOPE OF LESS THAN 6% GRADIENT SHALL BE AT LEAST AS SLIP-RESISTANT AS THAT DESCRIBED AS A MEDIUM SALTED FINISH. (SEC. 11B-403.2)
4. WALK & SIDEWALK SURFACES WITH A SLOPE OF 6% OR MORE GRADIENT SHALL BE SLIP-RESISTANT. (SEC. 11B-403.2)
5. ALL WALKS WITH CONTINUOUS GRADIENTS SHALL HAVE LEVEL AREAS AT LEAST 5' IN LENGTH AT INTERVALS OF' AT LEAST EVERY 400'. (SEC. 11B-403.7)
6. WALKS SHALL BE PROVIDED WITH A LEVEL AREA NOT LESS THAN 60" WIDE AND DOOR+36" DEEP AT A DOOR OR GATE THAT SWINGS TOWARD THE WALK, AND NOT LESS THAN 48" WIDE AND DOOR+12" DEEP AT A DOOR OR GATE THAT SWINGS AWAY FROM THE WALK. (SEC. 11B-404.2.4.1 (c) OR (d))
7. WALKS AND SIDEWALKS SHALL HAVE A CONTINUOUS COMMON SURFACE, NOT INTERRUPTED BY STEPS OR BY ABRUPT CHANGES IN LEVEL EXCEEDING 1/2", AND SHALL BE A MINIMUM OF 48" WIDE. (SEC. 11B-403.1, 11B-403.2, 11B-403.5.1, 11B-403.5.3, 11B-302.1)
8. WHEN ABRUPT CHANGES IN LEVEL NOT EXCEEDING 1/2" OCCUR, THEY SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1 UNIT VERTICAL TO 2 UNITS HORIZONTAL (50%), EXCEPT THAT LEVEL CHANGES NOT EXCEEDING ¼" MAY BE VERTICAL (SEC. 11B-403.4 AND FIGURES 11B-5E (c) AND (d))
9. ABRUPT CHANGES IN LEVEL ALONG ANY ACCESSIBLE ROUTE EXCEEDING 1/2" SHALL COMPLY WITH THE REQUIREMENTS FOR CURB RAMPS. (SEC. 11B-303.4)
10. WALKS SHALL EXTEND A MINIMUM OF 36" TO THE SIDE OF THE STRIKE EDGE OF A DOOR OR GATE THAT SWINGS TOWARD THE WALL (SEC. 11B-404.2.4.1 (d))
11. WALKS, SIDEWALKS, AND PEDESTRIAN WAYS SHALL BE FREE OF GRATINGS WHEREVER POSSIBLE. GRID OPENINGS IN GRATINGS SHALL BE 1/2" WIDE MAX IN THE DIRECTION OF TRAFFIC FLOW. ELONGATED OPENINGS, IF PROVIDED SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL (SEC. 11B-302.3)
12. ABRUPT CHANGES IN LEVEL, 4" OR MORE, EXCEPT BETWEEN A WALK OR A SIDEWALK AND ADJACENT STREETS OR DRIVEWAYS SHALL BE IDENTIFIED BY A 6" HIGH CURBS ABOVE WALK SURFACE (SEC. 11B-303.5)
13. PROVIDE SIGNS DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AT EVERY PRIMARY PUBLIC ENTRANCE AND AT EVERY MAJOR JUNCTION ALONG OR LEADING TO AN ACCESSIBLE ROUTE OF TRAVEL. SIGNS SHALL INDICATE THE DIRECTION TO ACCESSIBLE BUILDING ENTRANCES AND SHALL COMPLY WITH SECTION 11B-703 (SEC. 11B-216.6)

PAVING NOTES:

1. A PRE-PAVING MEETING WITH PROJECT INSPECTOR AND ENGINEER IS REQUIRED 48 HOURS PRIOR TO PAVING.
2. CRUSHED AGGREGATE BASE SHOULD CONFORM TO SECTION 200-2.2 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND SHOULD BE COMPACTED TO A DRY DENSITY OF AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY AT NEAR OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D 1557-02.
3. THE PCC PAVEMENT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF APPROXIMATELY 2,500 PSI FOR PEDESTRIAN AREAS.
4. ADJACENT PAVEMENTS SLAB SECTIONS SHALL HAVE FLUSH TRAPEZOIDAL KEYED CONSTRUCTION JOINT. AS AN ALTERNATIVE TO THE KEYED JOINT, DOWELING BETWEEN CONSTRUCTION JOINTS CAN BE USED. DOWELS SHALL CONSIST OF SMOOTH, #4bar REINFORCING STEEL, 18 INCHES LONG, EMBEDDED A MINIMUM OF SIX INCHES INTO THE SLAB ON EITHER SIDE OF THE CONSTRUCTION JOINT.

GEOTECHNICAL NOTES:

A. PARTICLES LARGER THAN 4 INCHES IN DIAMETER SHALL NOT BE ALLOWED IN THE BACKFILL MATERIAL.

B. ALL AREAS TO RECEIVE NEW FILL SHALL BE SCARIFIED TO A DEPTH OF 6 INCHES AND COMPACTED TO 90 PERCENT RELATIVE COMPACTION.

C. WITHIN THE AT-GRADE PORTION OF THE PROPOSED STRUCTURE, ALL FILL MATERIALS AND UPPER ALLUVIAL SOILS SHALL BE REMOVED TO A MINIMUM DEPTH OF 3 FEET BELOW THE BOTTOM OF ALL FOUNDATIONS, OR 5 FEET BELOW THE PROPOSED SUBGRADE, WHICHEVER IS DEEPER. THE REMOVAL SHALL EXTEND AT LEAST 3 FEET BEYOND THE EDGE OF FOUNDATIONS, OR FOR A DISTANCE EQUAL TO THE DEPTH OF FILL BELOW THE FOUNDATIONS, WHICHEVER IS GREATER. THE EXPOSED GRADE SHALL THEN BE SCARIFIED TO A DEPTH OF SIX INCHES, MOISTENED TO APPROXIMATELY 3% ABOVE OPTIMUM MOISTURE CONTENT, AND RECOMPACTED IN EXCESS OF THE MINIMUM REQUIRED COMPARATIVE DENSITY.

D. FLOOR SLABS-ON-GRADE SHALL BE DESIGNED PER THE RECOMMENDATIONS OF THE REFERENCED HEREIN GEOTECHNICAL REPORT. THE DESIGN OF THE SLAB MAY BE ALTERED ONLY BY THE CONSULTING STRUCTURAL ENGINEER.

E. FILL SHALL BE COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 90% MAX DRY DENSITY AS NOTED IN THE SOILS REPORT.

F. ON-SITE OR IMPORTED GRANULAR SOILS MAY BE USED AS BACKFILL MATERIAL PER THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT. ALL BACKFILL SHOULD BE PLACED IN THIN HORIZONTAL LIFTS, WETTED OR AIR-DRIED AS NECESSARY TO ACHIEVE NEAR OPTIMUM MOISTURE CONDITIONS, AND COMPACTED IN PLACE TO A MINIMUM RELATIVE COMPACTION OF 90 PERCENT OF ITS MAXIMUM DRY DENSITY. FLOODING OR WETTING OF BACKFILL SOILS IS NOT PERMITTED.

G. BACKFILL FOR ALL UTILITY TRENCHES UNDER SLABS AND WITHIN DRIVEWAYS AND PARKING AREAS SHOULD BE COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 90 PERCENT OF ITS MAXIMUM DRY DENSITY BY MECHANICAL METHODS. WHERE UTILITY TRENCHES ARE PARALLEL TO THE FOOTINGS, THE BOTTOM OF THE TRENCH SHOULD BE LOCATED ABOVE A PLANE WITH A SLOPE OF 1:1, PROJECTED DOWNWARD FROM THE ADJACENT BOTTOM EDGE OF THE FOOTING.

H. ALL REQUIRED FILLS SHOULD BE PLACED IN HORIZONTAL LIFTS NOT MORE THAN 6" TO 8" IN THICKNESS & COMPACTED TO AT LEAST 90% OF MAXIMUM DRY DENSITY.

I. NO FILL TO BE PLACED, UNTIL THE CITY GRADING INSPECTOR HAS INSPECTED AND APPROVED THE BOTTOM EXCAVATION.

J. INSPECTION & TESTING; TO INSURE COMPLIANCE THE RECOMMENDATIONS OF THE HEREIN REFERENCED GEOTECHNICAL REPORT, THE FOLLOWING OPERATIONS SHALL BE OBSERVED BY THE GEOTECHNICAL ENGINEER:

   A. TEMPORARY EXCAVATIONS
   B. REMOVAL OF UNSUITABLE SOILS
   C. BACKFILL PLACEMENT AND COMPACTION
   D. FOUNDATION EXCAVATIONS.

K. THE GEOTECHNICAL ENGINEER SHALL PERFORM PERIODIC INSPECTIONS AND SUBMIT A COMPLETE REPORT AND MAP UPON COMPLETION OF THE ROUGH GRADING OPERATIONS.

L. THE FINAL COMPACTION REPORT AND APPROVAL FROM THE GEOTECHNICAL ENGINEER SHALL CONTAIN THE TYPE OF FIELD TESTING PERFORMED. THE METHOD OF OBTAINING THE IN-PLACE DENSITY, WHETHER SAND CONE, NUCLEAR GAGE, OR DRIVE RING SHALL BE SO NOTED FOR EACH TEST. SUFFICIENT MAXIMUM DENSITY DETERMINATIONS SHALL BE PERFORMED TO VERIFY THE ACCURACY OF THE MAXIMUM DENSITY CURVES USED BY THE FIELD TECHNICIAN.

M. NOTIFICATION OF NONCOMPLIANCE: IF, IN THE COURSE OF FULFILLING THEIR RESPONSIBILITY, THE CIVIL ENGINEER, THE GEOTECHNICAL ENGINEER, THE ENGINEERING GEOLOGIST OR THE TESTING AGENCY FINDS THAT THE WORK IS NOT BEING DONE IN CONFORMANCE WITH THE APPROVED GRADING PLANS, THE DISCREPANCIES SHALL BE REPORTED IMMEDIATELY IN WRITING TO THE PERSON IN CHARGE OF THE GRADING WORK AND TO THE OWNER REPRESENTATIVE. RECOMMENDATION FOR CORRECTIVE MEASURES, IF NECESSARY, SHALL BE SUBMITTED TO THE CONSTRUCTION MANAGER OF THE PROJECT.

N. ALL EXISTING SEWERS, CESSPOOLS AND SEPTIC TANKS OR OTHER SEWAGE DISPOSAL FACILITIES SHALL BE ABANDONED IN COMPLIANCE WITH THE UNIFORM PLUMBING CODE AND TO THE APPROVAL OF THE GEOTECHNICAL ENGINEER AND GRADING INSPECTOR.

O. EXPORT SOILS MUST GO TO A LEGAL DUMP SITE OR TO A PERMITTED SITE APPROVED BY THE CITY GRADING ENGINEER.

P. NO GRADING SHALL BE STARTED WITHOUT FIRST NOTIFYING THE GRADING INSPECTOR. A PRE-GRADING MEETING AT THE SITE IS REQUIRED BEFORE START OF CLEARING AND GRADING WITH THE FOLLOWING PEOPLE RESENT: OWNER, GRADING CONTRACTOR, DESIGN CIVIL ENGINEER, GEOTECHNICAL ENGINEER, ENGINEERING GEOLOGIST, CITY GRADING INSPECTORS, CONSTRUCTION MANAGER'S REPRESENTATIVE,

Q. CONTINUOUS INSPECTION BY THE SOILS ENGINEER/GEOLOGIST IS REQUIRED FOR GRADING OPERATIONS. THE CONTRACTOR SHALL NOTIFY THE GRADING INSPECTOR WHEN THE GRADING OPERATION IS READY FOR EACH OF THE FOLLOWING INSPECTIONS:

   1. INITIAL INSPECTION. WHEN THE CONTRACTOR IS READY TO BEGIN WORK, BUT NOT LESS THAN TWO DAYS BEFORE ANY CLEARING OR GRADING IS STARTED.
   2. TOE INSPECTION. AFTER THE NATURAL GROUND OR BEDROCK IS EXPOSED AND PREPARED TO RECEIVE FILL, BUT BEFORE FILL IS PLACED.
   3. EXCAVATION INSPECTION. AFTER THE EXCAVATION IS STARTED, BUT BEFORE THE VERTICAL DEPTH OF THE EXCAVATION EXCEEDS TEN FEET.
   4. FILL INSPECTION. AFTER THE FILL PLACEMENT IS STARTED, BUT BEFORE THE VERTICAL HEIGHT OF THE FILL EXCEEDS TEN FEET.
   5. DRAINAGE DEVICE INSPECTION. AFTER PLACEMENT OF PIPE IN SUBDRAINS, BUT BEFORE ANY CONCRETE OR FILLER MATERIAL IS PLACED.
   6. ROUGH GRADING INSPECTION. WHEN ALL ROUGH GRADING HAS BEEN COMPLETED, THIS INSPECTION MAY BE CALLED FOR AT THE COMPLETION OF ROUGH GRADING WITHOUT THE INSPECTOR NECESSARILY HAVING PREVIOUSLY REVIEWED AND APPROVED THE REQUIRED REPORTS.
   7. FINAL GRADING AND IMPROVEMENT INSPECTION. WHEN ALL WORK (INCLUDING INSTALLATION OF ALL DRAINAGE STRUCTURES, OTHER PROTECTIVE DEVICES AND ALL OTHER IMPROVEMENTS WHICH INCLUDE LANDSCAPING AND IRRIGATION SYSTEMS) HAS BEEN COMPLETED AND THE AS-GRADED PLAN, PROFESSIONAL CERTIFICATIONS AND THE REQUIRED REPORTS HAVE BEEN SUBMITTED.

R. CONTRACTOR TO NOTE THE PRESENCE OF MINOR GROUND WATER SEEPAGE AT THE SITE. CONTRACTOR SHALL OBTAIN NECESSARY DEWATERING PERMITS WHEN REQUIRED.

GRADING NOTES:

1. ALL GRADING SLOPES SHALL BE PLANTED AND SPRINKLERED (7012.1)
2. STANDARD 12 INCH HIGH BERM IS REQUIRED AT TOP OF ALL GRADED SLOPES. (7013.3)
3. NO FILL TO BE PLACED, UNTIL THE DISTRICT INSPECTOR HAS INSPECTED AND APPROVED THE BOTTOM EXCAVATION.
4. MAN-MADE FILL SHALL BE COMPACTED TO A MINIMUM RELATIAVE COMPACTION OF 90% MAX. DRY DENSITY WITHIN 40 FEET BELOW FINISH GRADE AND 93% OF MAX. DRY DENSITY DEEPER THAN 40 FEET BELOW FINISH GRADE, UNLESS A LOWER RELATIVE COMPACTION (NOT LESS THAN 90% OF MAX. DRY DENSITY) IS JUSTIFIED BY THE SOILS ENGINEER.
5. TEMPORARY EROSION CONTROL TO BE DEPLOYED YEAR ROUND.

GENERAL UTILITY NOTES:

1. CONTRACTOR TO PROTECT IN PLACE OR ADJUST WHERE NECESSARY ALL EXISTING UTILITY LINES AND UNDERGROUND STRUCTURES, WHETHER SHOWN OR NOT SHOWN ON THESE PLANS, THAT LAY WITHIN THE LIMITS OF THE NEW CONSTRUCTION, AND ARE NOT SPECIFICALLY MARKED TO BE REMOVED OR ABANDONED.
2. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND THE AMENDMENTS IN REGARD TO SAFETY ORDERS.
3. INSTALLATION OF PIPES IN TRENCHES SHALL BE IN ACCORDANCE WITH SECTION 306 OF THE STANDARD SPECIFICATIONS, AND APPLICABLE SPPWC STANDARD PLANS.
4. PIPE BEDDING SHALL BE CLEAN SAND AS DEFINED IN THE SOILS REPORT.
5. THE CONTRACTOR MAY VARY THE GRADE AND/OR ALIGNMENT OF THE WATER AND GAS LINES IF FIELD CONDITIONS WARRANT WITH APPROVAL OF THE ENGINEER.
6. ALL UTILITY TRENCHES SHALL BE BLOCKED AT THE PRESCRIBED INTERVALS FROM BOTTOM TO TOP WITH A DOUBLE ROW OF SANDBAGS PRIOR TO BACKFILL. SEWER TRENCHES SHALL BE BLOCKED AT THE PRESCRIBED INTERVALS WITH A DOUBLE ROW OF SANDBAGS EXTENDING DOWNWARD, TWO SANDBAGS FROM THE GRADED SURFACE OF THE STREET. SANDBAGS ARE TO BE PLACED WITH ALTERNATE HEADER AND STRETCHER COURSES. THE INTERVALS PRESCRIBED BETWEEN SANDBAG BLOCKINGS, SHALL DEPEND ON THE SLOPE OF THE GROUND SURFACE, BUT SHALL NOT EXCEED THE FOLLOWING:

GRADE OF THE STREET	INTERVAL
LESS THAN 2%	AS REQUIRED
2% TO 4%	100 FEET
4% TO 10%	50 FEET
OVER 10%	25 FEET

7. THE CONTRACTOR SHALL PROVIDE THE DESIGN OF, OBTAIN THE REQUIRED PERMITS FOR, AND FURNISH AND INSTALL ALL THE TEMPORARY SHORING, UNDERPINNING AND BRACING REQUIRED TO SAFELY EXECUTE THE WORK AND PROTECT EXISTING IMPROVEMENTS.
8. CONTRACTOR SHALL EXPOSE EXISTING UTILITY LINES AT THE DOWNSTREAM CONNECTION LOCATIONS FOR VERIFICATION OF JOIN ELEVATIONS. DISCREPANCIES WITH THE PLANS SHALL BE REPORTED TO THE ENGINEER, PRIOR TO CONTINUING WITH CONSTRUCTION.
9. SPECIAL PROVISIONS SUCH AS FLEXIBLE OR SWIVEL JOINTS SHALL BE MADE FOR BURIED UTILITIES TO ALLOW FOR DIFFERENTIAL VERTICAL DISPLACEMENT.
10. CONSTRUCTION INSPECTION SHALL BE DONE FOR SUBBEDDING, BEDDING, PIPE LAYING, PIPE TESTING, AND MANHOLE CONSTRUCTION, TRENCHING, CONSOLIDAITON OF BACKFILL, PAVING, RESURFACING.
11. NO CONCRETE SHALL BE PLACED UNTIL THE FORMS AND REINFORCING STEEL HAVE BEEN PLACED, INSPECTED AND APPROVED BY THE INSPECTOR.
12. CONCRETE FOR UTILITY STRUCTURES SHALL BE PORTLAND CEMENT CONCRETE WITH AN ULTIMATE 28 DAY COMPRESSIVE STRENGTH OF 3000 P.S.I. UNLESS OTHERWISE NOTED.
13. FINAL MANHOLE AND RIM CLEANOUT ELEVATIONS SHALL BE ADJUSTED TO MEET FINAL GRADES.
14. ALL WATER LINES SHALL BE INSTALLED WITH 36" MINIMUM COVER FROM TOP OF PIPE TO FINISHED GRADE, UNLESS OTHERWISE NOTED.
15. MAINTAIN ALL UTILITIES DURING SCHOOL HOURS AND ACTIVITIES WITHOUT ANY INTERRUPTION TO SERVICES OR IMPACT TO STAFF OR STUDENT ACTIVITIES. IN ORDER TO PREVENT ANY INTERRUPTION TO UTILITY SERVICES DURING SCHOOL HOURS AND/OR ACTIVITIES, CONTRACTOR TO SUBMIT PLANS TO AOR FOR REVIEW PRIOR TO INSTALLING ANY TEMPORARY REROUTING PIPING, INSTALL BY PASS PIPING, ISOLATION VALVING, ETC TO MAINTAIN UTILITY SERVICES. THIS TO INCLUDE BARRIERS CONSISTING OF IN GRADE FENCING SUPPORTS WITH WIND SCREENS, TRENCH PLANTING, ETC.

CALIFORNIA CODE OF REGULATIONS:

APPLICABLE CODES AS OF JANUARY 1, 2022

2022 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, CBSC
2019 CALIFORNIA BUILDING CODE (CBC), PART 2, CBSC
(2018 IBC AND CALIFORNIA AMENDMENTS)
2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, CBSC
(2018 UNIFORM PLUMBING CODE AND CALIFORNIA AMENDMENTS)
2019 CALIFORNIA FIRE CODE, PART 9, CBSC
(2018 INTERNATIONAL FIRE CODE AND CALIFORNIA AMENDMENTS)

LIST OF FEDERAL CODES AND STANDARDS

- AMERICANS WITH DISABILITIES ACT (ADA), TITLE II
- STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SPPWC)
- FOR TITLE II: ADA STANDARDS FOR ACCESSIBLE DESIGN (APPENDIX A OF 28 CFR PART 36). (28 CFR 35,151(c))

NOTE: TITLE II APPLIES TO PROJECTS FUNDED AND/OR USED BY STATE AND LOCAL GOVERNMENT SERVICES. TITLE III COVERS PUBLIC ACCOMMODATIONS AND COMMERCIAL FACILITIES.

BENCH MARK

ELEVATIONS SHOWN HEREON ARE BASED UPON LOS ANGELES COUNTY BENCHMARK 1G5150, ELEVATION 325.04 FEET (NAVD 88). (SHOWN HEREON AS M9066).

DESCRIPTION:
DPW BM TAG IN S CB 1FT W/O BCR @ SW COR LOWER AZUSA RD & ENCINITA AVE.

SITE INFORMATION

SITE NAME:
ENCINITA ELEMENTARY SCHOOL

SITE ADDRESS:
4515 ENCINITA AVENUE,
ROSEMEAD, CA 91770
LOS ANGELES COUNTY

ASSESSOR'S PARCEL NO:
8592-018-903

BASIS OF BEARINGS

THE COORDINATES SHOWN HEREON ARE BASED UPON THE CALIFORNIA COORDINATE SYSTEM OF 1983, CCS83, ZONE 5, (2017.50) IN ACCORDANCE TO THE CALIFORNIA PUBLIC RESOURCES CODE SECTIONS 8801-8819; SAID COORDINATES ARE DETERMINED LOCALLY UPON FIELD-OBSERVED TIES TO THE FOLLOWING CALIFORNIA SPATIAL REFERENCE CENTER (C.S.R.C.) CONTINUOUSLY OPERATING REFERENCE STATIONS (C.O.R.S.):

C.S.R.C. RHCL:
NORTHING = 1829315.58' EASTING = 6553739.69'

C.S.R.C. BKMS:
NORTHING = 1808660.11' EASTING = 6532953.83'

THE COMBINATION FACTOR FOR THIS PROJECT WAS APPLIED AT THE FOLLOWING POINT:
NORTHING = 1853431.29' EASTING = 6540340.74'

MAPPING ANGLE = −0°02'24" SCALE FACTOR = 1.00002108

PROJECT SITE

VICINITY MAP

SCALE: N.T.S.

PREPARED BY

BRANDOW & JOHNSTON, INC.
700 SOUTH FLOWER ST. SUITE 1200
LOS ANGELES, CA. 90017
TEL (213) 596-4500
FAX (213) 596-4599

REPRESENTATIVE:

ED MELO, PE
DIRECTOR OF CIVIL ENGINEERING

PREPARED FOR

ROSEMEAD SCHOOL DISTRICT
3907 ROSEMEAD BLVD.
ROSEMEAD, CA 91770

REPRESENTATIVE:

NAC ARCHITECTURE
323-475-8075

INDEX OF DRAWINGS

SHT. NO.	DESCRIPTION
C1.01	TITLE SHEET AND GENERAL NOTES
C2.01	TYPICAL DETAILS
C3.01	SITE DEMOLITION PLAN
C4.01	PRECISE GRADING PLAN
C5.01	SITE UTILITY PLAN
C6.01	EROSION CONTROL PLAN

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EST. 1945

No. C80534
EXP. 03/31/23
FOR BRANDOW & JOHNSTON

ROSEMEAD SCHOOL DISTRICT
ENCINITA ELEMENTARY SCHOOL:
CLASSROOM BUILDINGS "O" & "P"
3720 RIO HONDO AVE. ROSEMEAD, CA 91770

ROSEMEAD
SCHOOL DISTRICT
PARK ROSEMEAD
3907 ROSEMEAD BOULEVARD
ROSEMEAD, CA 91770

JUBANY NAC ARCHITECTURE
837 N. SPRING ST. | LOS ANGELES CA 90012-2323 | P: 323.475.8075 | F: 323.859.3110

NAC NO	
DSA FILE	
DRAWN	
CHECKED	
DATE	01-12-2023

DSA SUBMITTAL

C1.01

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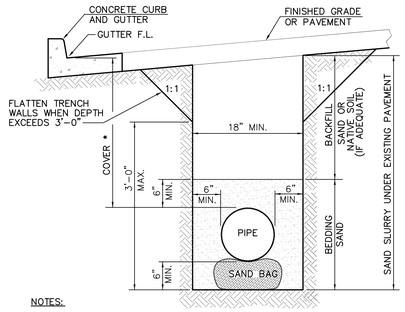


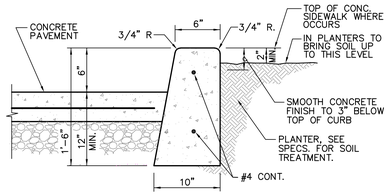
NOTES:

* 48" MAX./36" MIN. FOR 12"DIA. AND LARGER PIPE.
42" MAX./30" MIN. FOR 10"DIA. AND SMALLER PIPE.

TRENCH RESURFACING AT EXISTING PAVEMENT – PER SPPWC STD. PLANS 132–3 OR 133–3 (WHICHEVER IS APPLICABLE)

TYPICAL TRENCH SECTION FOR WATER/GAS PIPE

SCALE: NO SCALE | 12

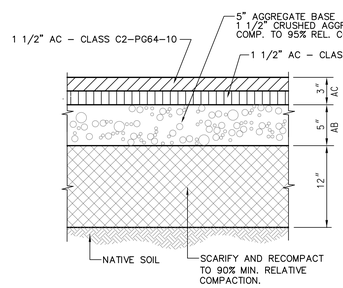


NOTES: (TYPICAL @ ALL SIMILAR CONDITIONS)

1. BOTTOM OF CURB TO BE SET ON COMPACTED SUB-BASE OR NATURAL UNDISTURBED SOIL (PER SOILS REPORT).
2. FINISH ALL EXPOSED CONCRETE SURFACES SMOOTH.
3. PROVIDE 1/2" EXPANSION JOINTS AT 25'–0" O.C. MAX. AND AT CURVES, TANGENTS AND CORNERS.
4. PORTLAND CEMENT CONCRETE, fc'=3200 psi

CONCRETE CURB DETAIL

SCALE: NO SCALE | 8

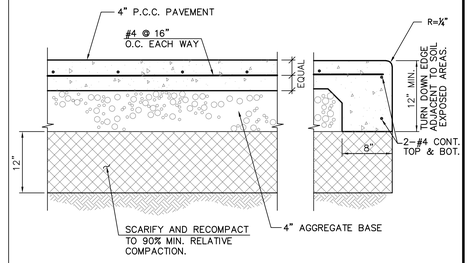


NOTES:

THE ACTUAL PAVEMENT THICKNESS WILL BE DETERMINED BY GEOTECHNICAL ENGINEER, BASED ON TRAFFIC INDEX AND AFTER SOIL TESTING.

AC PAVEMENT DETAIL

SCALE: NO SCALE | 4

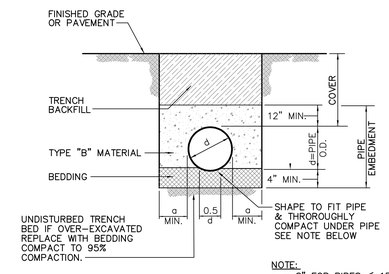


NOTES:

1 – PORTLAND CEMENT CONCRETE, fc=2500 psi, W/C RATIO 0.5 MAX.
2 – EXPANSION JOINTS–PER DETAIL 2 HEREON. SPACING – 32' O.C. OR LESS TO FIT WITH CONTROL JOINT SPACING PER DETAIL 2 HEREON.
3 – CONTROL JOINTS – PER DETAIL 2 HEREON.
4 – FINISH – MATCH EXISTING

PEDESTRIAN CONCRETE PAVEMENT

SCALE: NO SCALE | 1



NOTE:
a = 8" FOR PIPES ≤ 15"
a = 6" FOR PIPES > 15"

PIPE:
FOR GRAVITY FLOW SAN. SEWERS AND DRAINAGE P.V.C CONFORMING TO A.S.T.M. D–3034 MAXIMUM SDR 35, GASKETED JOINT, 15" DIA. MAXIMUM PIPE SIZE.

COMPACTION:
PIPE EMBEDMENT AND TRENCH BACKFILL SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 306–1.3 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION. WATER DENSIFIED BACKFILL SHALL NOT BE USED.

BEDDING:
CLEAN COARSE SAND

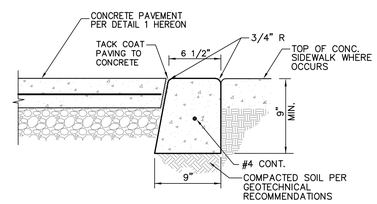
BEDDING TYPE B:
SAND OR OTHER GRANULAR MATERIAL WITH SAND EQUIVALENT VALUE NOT LESS THAN 30 AND SHALL BE COMPLETED PRIOR TO PLACING THE BALANCE OF THE BACKFILL. THE MAXIMUM ROCK SIZE FOR BEDDING TYPE B SHALL BE 3/4" IN THE GREATEST DIMENSION. NESTING OF ROCKS WILL NOT BE PERMITTED.

TRENCH BACKFILL:
BACKFILL WITH ONSITE OR IMPORT SOILS TO MINIMUM 95% RELATIVE COMPACTION

TRENCH RESURFACING AT EXISTING PAVEMENT:
PER SPPWC STD. PLANS 132–3 OR 133–3 (WHICHEVER IS APPLICABLE)

FLEXIBLE PIPE BEDDING AND TRENCH DETAIL

SCALE: NO SCALE | 13

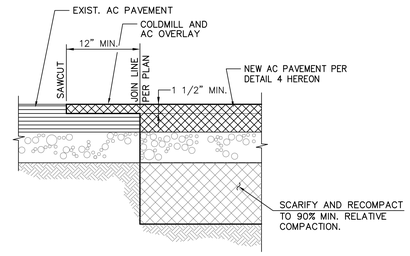


NOTES: (TYPICAL @ ALL SIMILAR CONDITIONS)

1. BOTTOM OF CURB TO BE SET ON SUBGRADE SOIL COMPACTED TO 95% STANDARD PROCTOR.
2. FINISH ALL EXPOSED CONCRETE SURFACES SMOOTH.
3. PROVIDE 1/2" EXPANSION JOINTS AT 25'–0" O.C. MAX. AND AT CURVES, TANGENTS AND CORNERS.
4. PORTLAND CEMENT CONCRETE, fc'=3,200 psi

FLUSH CURB DETAIL AT CONC.

SCALE: NO SCALE | 9



AC PAVEMENT JOINT DETAIL

SCALE: NO SCALE | 5

SUGGESTED SPACING OF CONTROL JOINTS

PAVEMENT/SLAB TICKNESS (IN)	LESS THAN 3/4 INCH AGGREGATE: SPACING (FT)	LARGER THAN 3/4 INCH AGGREGATE: SPACING (FT)
3	4	6
4	8	10
5	10	13
6	12	15
7	14	18
8	16	20
9	18	23
10	20	25

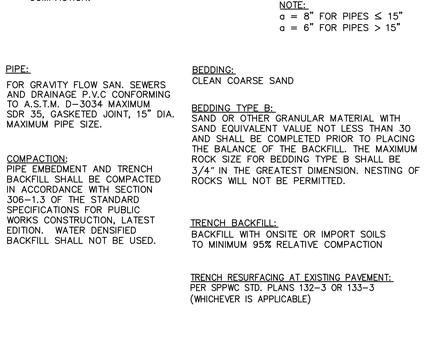
* GIVEN SPACING ALSO APPLY TO THE DISTANCE FROM CONTROL JOINTS TO PARALLEL ISOLATION JOINTS OR TO PARALLEL EXPANSION JOINTS.

NOTES:

1. SEE SPECIFICATIONS FOR TYPE OF JOINT SEALANT AND JOINT FILLER.
2. PLACE 18" LONG #4 DOWELS AT 24" O.C. (TYPE 'B' ONLY)
3. SPACING OF JOINTS PER TABLE HEREON.
4. STOP SLAB REINFORCING AT EXPANSION JOINT.

CONSTRUCTION JOINTS

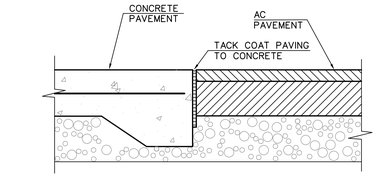
SCALE: NO SCALE | 2



TRUNCATED DOME PLAN

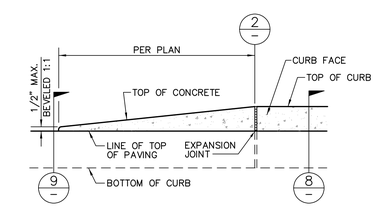
TRUNCATED DOMES (DSA APPROVED PRODUCT ONLY)

SCALE: NO SCALE | 10



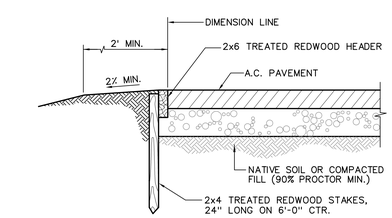
AC TO CONCRETE PAVEMENT TRANSITION

SCALE: NO SCALE | 6



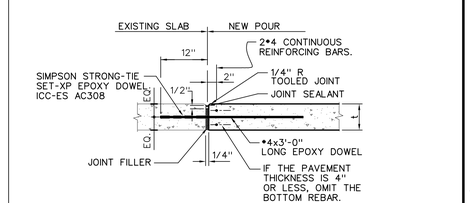
TAPERED CONCRETE CURB DETAIL

SCALE: NO SCALE | 11



REDWOOD HEADER DETAIL

SCALE: NO SCALE | 7



NOTES:

1. SEE SPECIFICATIONS FOR TYPE OF JOINT SEALANT AND JOINT FILLER.
2. PLACE THE DOWELS AT 24" O.C. (2 DOWELS MIN.)
3. 12" MAX. BETWEEN THE CONCRETE EDGE AND THE FIRST DOWEL.

CONSTRUCTION JOINT AT (E) CONC.

SCALE: NO SCALE | 3

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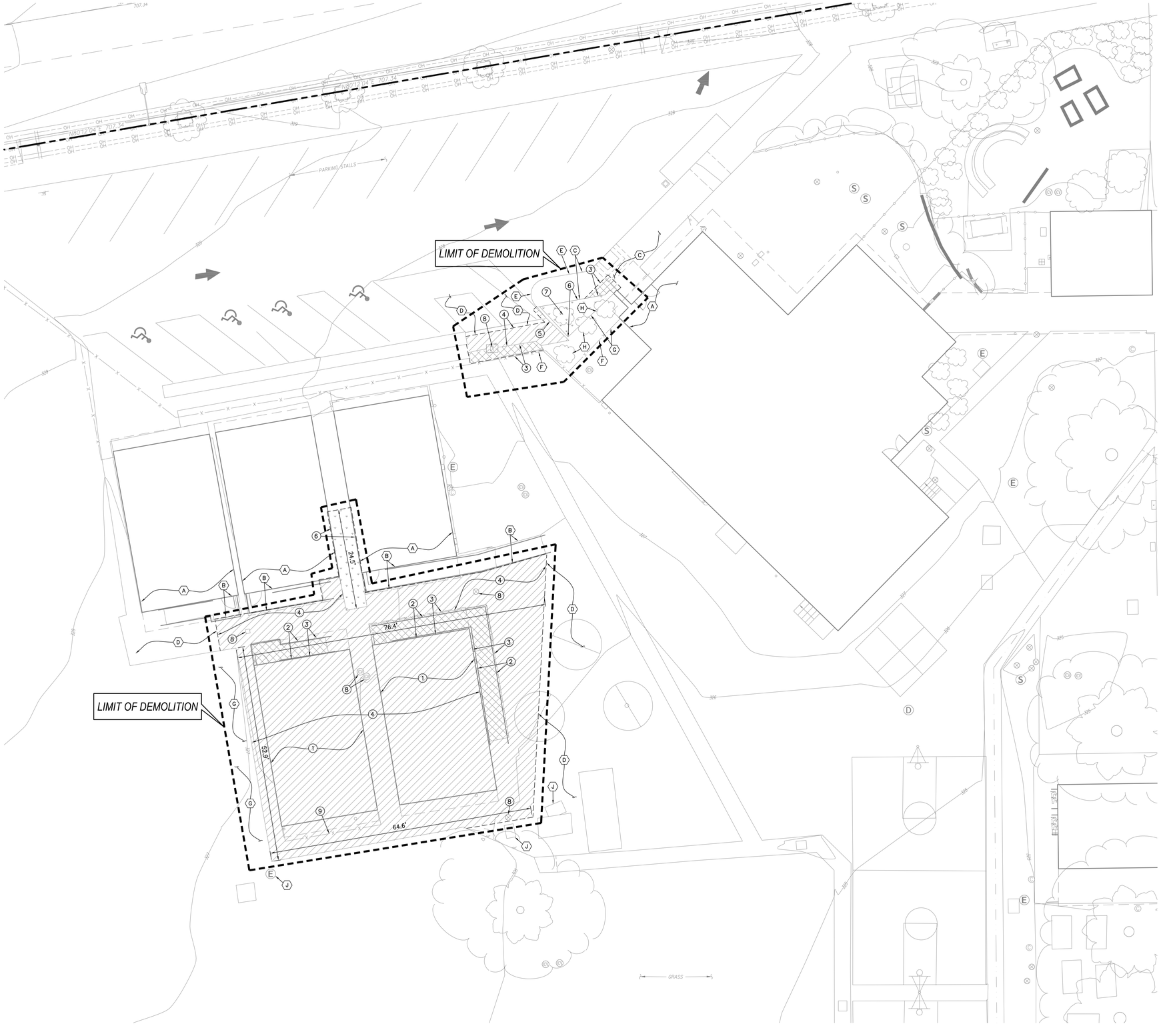

DEMOLITION NOTES:

1. REMOVE EXISTING PORTABLE BUILDING. REFER TO ARCHITECTURAL PLANS.
2. REMOVE EXISTING PORTABLE BUILDING RAMP. REFER TO ARCHITECTURAL PLANS.
3. REMOVE EXISTING CONCRETE PAVEMENT AND FULL BASE.
4. REMOVE EXISTING ASPHALT CONCRETE PAVEMENT AND FULL BASE.
5. REMOVE EXISTING CONCRETE CURB.
6. REMOVE EXISTING LANDSCAPE/DIRT.
7. REMOVE EXISTING TREE.
8. ADJUST TO GRADE EXISTING INLET/VAULT/UTILITY BOX COVER WHERE NECESSARY. REFER TO GRADING AND UTILITY PLANS.
9. REMOVE EXISTING FENCE, POST, FOOTING.

SALVAGE NOTES:

- A. PROTECT EXISTING BUILDING.
- B. PROTECT EXISTING BUILDING RAMP.
- C. PROTECT EXISTING CONCRETE PAVEMENT.
- D. PROTECT EXISTING ASPHALT CONCRETE PAVEMENT.
- E. PROTECT EXISTING CONCRETE CURB.
- F. PROTECT EXISTING CHAIN LINK FENCE/GATE.
- G. PROTECT EXISTING LANDSCAPE.
- H. PROTECT EXISTING TREE.
- J. PROTECT EXISTING UTILITY BOX/VAULT/VALVE.

LEGEND:

- LIMITS OF DEMOLITION
- EXISTING BUILDING
- PROPERTY LINE
- SAWCUT LINE
- REMOVE EXIST. AC PAVEMENT
- REMOVE EXIST. PCC PAVEMENT
- REMOVE EXIST. LANDSCAPE

NOTE:

1. NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING DEMOLITION WORK HAVE BEEN APPROVED BY DSA.

NORTH

SITE DEMOLITION PLAN

0' 5" 10' 20'

GRAPHIC SCALE : 1"=10'

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CONSTRUCTION NOTES:

1. NEW RELOCATABLE CLASSROOM PER ARCHITECTURAL PLANS.
2. NEW RELOCATABLE CLASSROOM RAMP PER ARCHITECTURAL PLANS.
3. CONSTRUCT ASPHALT CONCRETE PAVEMENT PER DETAIL 4 ON SHEET C2.01.
4. CONSTRUCT CONCRETE PAVEMENT PER DETAIL 1 ON SHEET C2.01.
5. NEW TO EXISTING ASPHALT CONCRETE TRANSITION PER DETAIL 5 ON SHEET C2.01.
6. NEW TO EXISTING CONCRETE TRANSITION PER DETAIL 3 ON SHEET C2.01.
7. ASPHALT TO CONCRETE TRANSITION PER DETAIL 6 ON SHEET C2.01.
8. CONSTRUCT CONCRETE CURB PER DETAIL 8 ON SHEET C2.01.
9. CONSTRUCT FLUSH CONCRETE CURB PER DETAIL 9 ON SHEET C2.01.
10. INSTALL DETECTABLE WARNINGS PER DETAIL 10 ON SHEET C2.01.
11. INSTALL REDWOOD HEADER PER DETAIL 7 ON SHEET C2.01.
12. CONSTRUCT TAPERED CONCRETE CURB PER DETAIL 11 ON SHEET C2.01.
13. ADJUST TO GRADE EX. STORM DRAIN INLET.
14. ADJUST TO GRADE EX. UTILITY BOX/VAULT/VALVE IF NECESSARY.

LEGEND:

- NEW PORTABLE BUILDING
- EXISTING BUILDING
- PROPERTY LINE
- RIDGE LINE
- GRADE BREAK LINE
- SAWCUT LINE
- LIMITS OF BUILDING OVEREXCAVATION
- FENCE
- PROP. CONTOUR (1' INTERVAL)
- EXIST. CONTOUR (1' INTERVAL)
- 325.00 FS — PROPOSED SPOT ELEVATION
- (325.00) FS — EXISTING SPOT ELEVATION
- ADA PATH OF TRAVEL
- NEW ASPHALT CONCRETE PAVEMENT
- NEW CONCRETE PAVEMENT

NOTE:
FOR PAVEMENT AND STRUCTURE OVER-EXCAVATION REQUIREMENTS REFER TO THE GEOTECHNICAL REPORT AND GENERAL NOTES ON SHEET C1.01.

NORTH

PRECISE GRADING PLAN

0' 5" 10' 20'
GRAPHIC SCALE : 1"=10'

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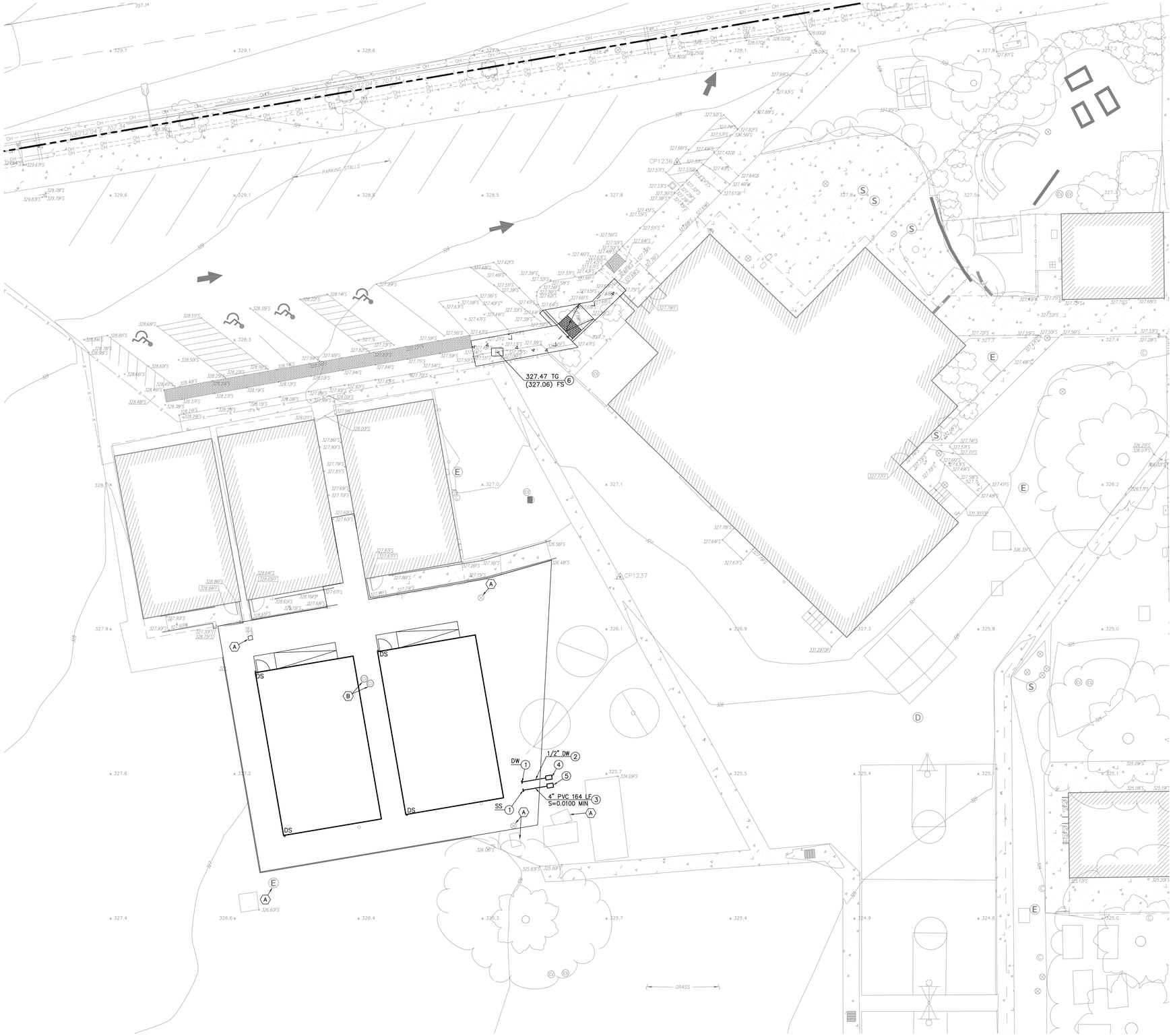

CONSTRUCTION NOTES:

1. POINT OF CONNECTION.
2. INSTALL COPPER WATER TUBE, TYPE K HARD. SIZE & LENGTH PER PLAN. SEE DETAIL 12 ON SHEET C2.01 FOR TRENCH. CORROSIVE PROTECTION PER GEOTECHNICAL RECOMMENDATIONS AND TECHNICAL SPECIFICATIONS.
3. INSTALL PVC SCH 40 DWV SEWER PIPE W/ PUSH-ON JOINTS. SIZE, LENGTH, & SLOPE PER PLAN. SEE DETAIL 13 ON SHEET C2.01 FOR TRENCH.
4. INSTALL WATER YARD BOX.
5. INSTALL SANITARY SEWER YARD BOX.
6. ADJUST TO GRADE EXISTING STORM DRAIN INLET.

UTILITY DEMOLITION NOTES:

1. REMOVE EXISTING UTILITY LINE AND ALL APPURTENANCES. COORDINATE THE DISCONNECTION WITH THE DISTRICT AND/OR UTILITY COMPANY PRIOR TO COMMENCE DEMOLITION.
2. CAP REMAINING END FOR FUTURE USE.

UTILITY PROTECTION NOTES:

A. PROTECT EXISTING UTILITY IN PLACE. KEEP THE UTILITY LINE OPERATIONAL AT ALL TIMES. COORDINATE ANY NECESSARY INTERRUPTIONS WITH THE DISTRICT.

B. EXISTING YARD BOX/VAULT/VALVE/MANHOLE COVER TO BE PROTECTED. TO BE ADJUSTED IF NECESSARY TO FINISHED GRADE PER GRADING PLANS. PROVIDE FLUSH TRANSITION AT PEDESTRIAN WALKS/SURFACES.

LEGEND:

- PROPERTY LINE
- CENTER LINE
- SS — SANITARY SEWER
- SD — STORM DRAIN
- W — WATER MAIN
- FW — FIRE WATER
- G — GAS MAIN (FOR REF. ONLY)
- E — ELECTRIC CABLE (FOR REF. ONLY)
- T — TECHNOLOGY (FOR REF. ONLY)
- G — EXIST. GAS MAIN
- SS — EXIST. SANITARY SEWER
- SD — EXIST. STORM DRAIN
- D — EXIST. STORM DRAIN
- W — EXIST. WATER MAIN
- FW — EXIST. FIRE WATER
- E — EXIST. ELECTRIC U/G CABLE
- C — EXIST. TECHNOLOGY
- EXISTING STORM DRAIN TO BE REMOVED/RELOCATED
- EXISTING SANITARY SEWER LINE TO BE REMOVED/RELOCATED
- EXISTING DOMESTIC WATER LINE TO BE REMOVED/RELOCATED
- EXISTING FIRE WATER LINE TO BE REMOVED/RELOCATED
- VALVE
- FIRE HYDRANT
- DOUBLE DETECTOR CHECK ASSEMBLY

NORTH

SITE UTILITY PLAN

0' 5" 10' 20'

GRAPHIC SCALE : 1"=10'

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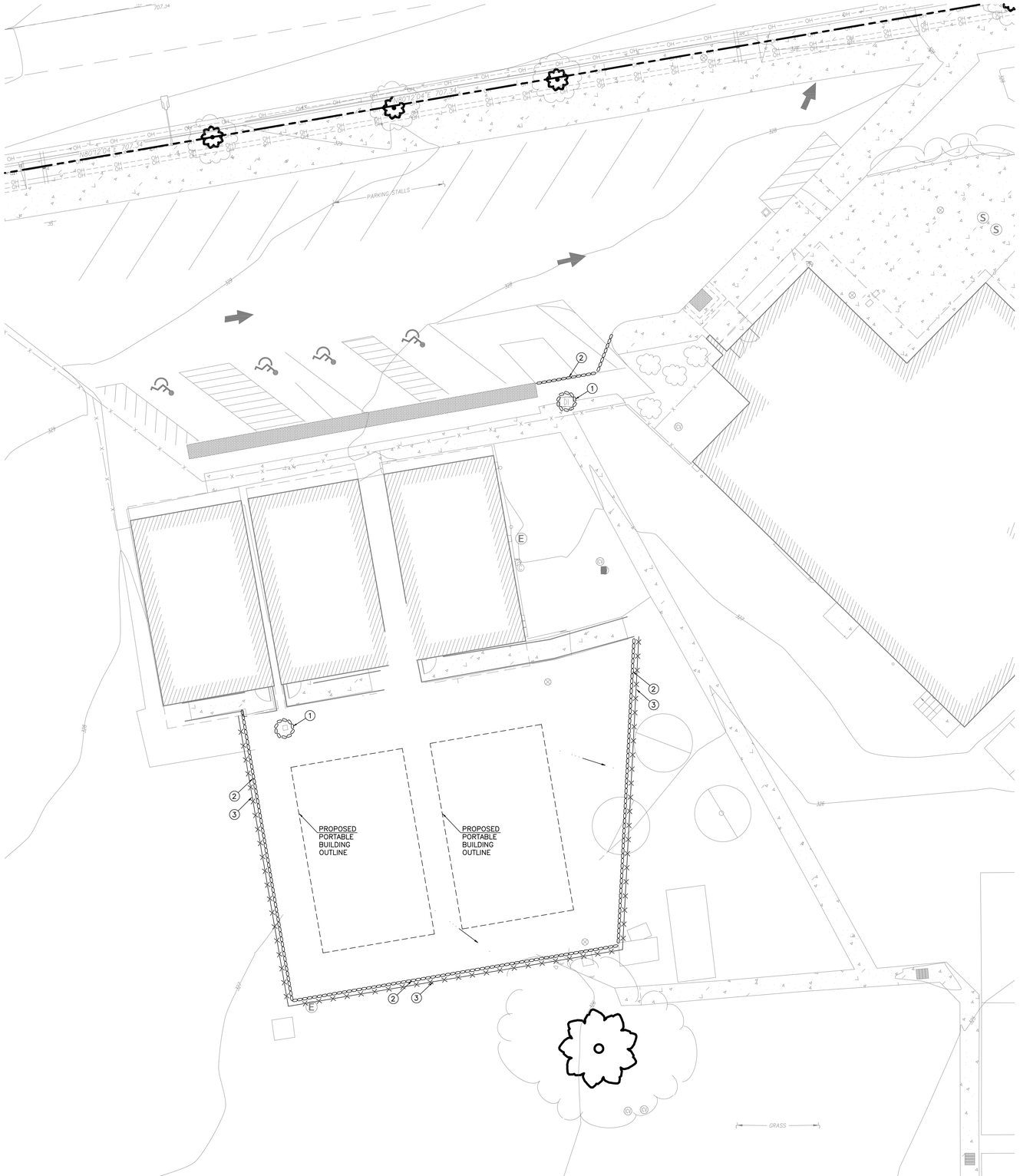


NORTH

EROSION CONTROL PLAN

0' 5" 10' 20'

GRAPHIC SCALE : 1"=10'

TYPICAL DEMOLITION DEBRIS NOTES

1. EROSION CONTROL DEVICES SHOWN ON THE PLAN MAY BE REMOVED WHEN APPROVED BY THE PROJECT INSPECTOR IF THE DEMOLITION OPERATION HAS PROGRESSED TO THE POINT WHERE THEY ARE NO LONGER REQUIRED.
2. ALL SILT AND DEBRIS SHALL BE REMOVED FROM ALL DEVICES WITHIN 24 HOURS AFTER EACH RAINSTORM AND BE DISPOSED OF PROPERLY.
3. A GUARD SHALL BE POSTED ON THE SITE WHENEVER THE DEPTH OF WATER IN ANY DEVICE EXCEEDS TWO FEET. THE DEVICE SHALL BE DRAINED OR PUMPED WITHIN 24 HOURS AFTER EACH RAINSTORM. PUMPING AND DRAINING OF ALL BASINS AND DRAINAGE DEVICES MUST COMPLY WITH THE APPROPRIATE BMP FOR DEWATERING OPERATIONS.
4. STORM WATER POLLUTION DEVICES ARE TO BE MODIFIED, AS NEEDED, AS THE PROJECT PROGRESSES, THE DESIGN AND PLACEMENT OF THESE DEVICES IS THE RESPONSIBILITY OF THE CONTRACTOR. PLANS REPRESENTING CHANGES MUST BE SUBMITTED FOR APPROVAL IF REQUESTED BY THE PROJECT INSPECTOR.
5. EVERY EFFORT SHOULD BE MADE TO ELIMINATE THE DISCHARGE OF NON-STORM WATER FROM THE PROJECT SITE AT ALL TIMES.
6. POLLUTANTS MUST BE RETAINED ON-SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA PUMPS, SHEET FLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES, OR WIND.
7. CONTRACTORS ARE RESPONSIBLE TO INSPECT THAT ALL BMPS ARE INSTALLED AND FUNCTIONING PROPERLY IF THERE IS A 40% CHANCE OF 0.25 INCHES OR GREATER OF PREDICTED PRECIPITATION, AND AFTER ACTUAL PRECIPITATION. A CONSTRUCTION SITE INSPECTION CHECKLIST AND INSPECTION LOG SHALL BE MAINTAINED AT THE PROJECT SITE AT ALL TIMES AND AVAILABLE FOR REVIEW BY THE BUILDING OFFICIAL.
8. MATERIALS MAY NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC WAY. ACCIDENTAL DEPOSITIONS MUST BE SWEPT UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS.
9. A STAND-BY CREW FOR EMERGENCY WORK SHALL BE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON (NOVEMBER 1 TO APRIL 15). NECESSARY MATERIALS SHALL BE AVAILABLE ON-SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF EMERBENCY DEVICES WHEN RAIN IS IMMINENT.

BEST MANAGEMENT PRACTICES FOR CONSTRUCTION ACTIVITIES

DETAILED IN THE CALIFORNIA STORM WATER BEST MANAGEMENT PRACTICES HANDBOOK – CONSTRUCTION. DECEMBER 2019

EROSION CONTROL
EC-1 SCHEDULING

SEDIMENT CONTROL
SE-8 SANDBAGS BARRIER
SE-10 STORM DRAIN INLET PROTECTION

NON-STORM WATER CONTROL
NS-3 PAVING AND GRINDING OPERATIONS

WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL
WM-1 MATERIAL DELIVERY AND STORAGE
WM-2 MATERIAL USE

SECTION 2 OF THE CASQA BMP CONSTRUCTION HANDBOOK, DECEMBER 2019, IS PART OF THESE EROSION CONTROL PLANS, INCLUDING BUT NOT LIMITED TO:

- MINIMUM REQUIREMENTS
- GOOD HOUSEKEEPING PRACTICES
- STAFF TRAINING
- SITE INSPECTIONS
- BMP MONITORING AND MAINTENANCE
- STORMWATER POLLUTION CONTROL DOCUMENTATION

STORM WATER POLLUTION CONTROL

CONSTRUCTION MEANS CONSTRUCTING, CLEARING, GRADING OR EXCAVATION THAT RESULT IN SOIL DISTURBANCE. CONSTRUCTION INCLUDES STRUCTURE TEARDOWN (DEMOLITION). IT DOES NOT INCLUDE ROUTINE MAINTENANCE TO MAINTAIN ORIGINAL LINE AND GRADE, HYDRAULIC CAPACITY, OR ORIGINAL PURPOSE OF FACILITY; EMERGENCY CONSTRUCTION ACTIVITIES
REQUIRED TO IMMEDIATELY PROTECT PUBLIC HEALTH AND SAFETY; INTERIOR REMODELING WITH NO OUTSIDE EXPOSURE OF CONSTRUCTION MATERIAL OR CONSTRUCTION WASTE TO STORM WATER; MECHANICAL PERMIT WORK; OR SIGN PERMIT WORK.
(ORDER NO. 01-182, NPDES PERMIT NO. CAS004001 – PART 5: DEFINITIONS)

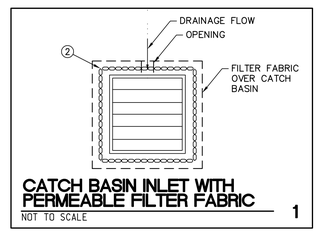
1. ERODED SEDIMENTS AND POLLUTANTS SHALL BE RETAINED ON SITE AND SHALL NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE OR WIND.
2. STOCKPILES OF EARTH AND OTHER CONSTRUCTION-RELATED MATERIALS SHALL BE COVERED AND/OR PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY WIND OR WATER.
3. FUELS, OILS, SOLVENTS AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND SHALL NOT CONTAMINATE THE SOIL NOR THE SURFACE WATERS. ALL APPROVED TOXIC STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF PROPERLY AND SHALL NOT BE WASHED INTO THE DRAINAGE SYSTEM.
4. NON-STORM WATER RUNOFF FROM EQUIPMENT AND VEHICLE WASHING AND ANY OTHER ACTIVITY SHALL BE CONTAINED ON THE PROJECT SITE.
5. EXCESS OR WASTE CONCRETE MAY NOT BE WASHED INTO THE PUBLIC WAY OR ANY DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTE ON-SITE UNTIL IT CAN BE APPROPRIATELY DISPOSED OF OR RECYCLED.
6. TRASH AND CONSTRUCTION -RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF STORM WATER AND DISPERSAL BY WIND.
7. SEDIMENTS AND OTHER MATERIALS SHALL NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE STREET/PUBLIC WAYS. ACCIDENTAL DEPOSITIONS MUST BE SWEPT UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR BY ANY OTHER MEANS.
8. RETENTION BASINS OF SUFFICIENT SIZE SHALL BE PROVIDED TO RETAIN STORM WATER RUNOFF ON-SITE AND SHALL BE PROPERLY LOCATED TO COLLECT ALL TRIBUTARY SITE RUNOFF.
9. WHERE RETENTION OF STORM WATER RUNOFF ON-SITE IS NOT FEASIBLE DUE TO SITE CONSTRAINTS, RUNOFF MAY BE CONVEYED TO THE STREET AND THE STORM DRAIN SYSTEM PROVIDED THAT AN APPROVED FILTERING SYSTEM IS INSTALLED AND MAINTAINED ON-SITE DURING THE CONSTRUCTION DURATION.

EROSION CONTROL NOTES

1. COVER CATCH BASIN INLET WITH PERMEABLE FILTER PER DETAIL 1 (REFER TO SE-10 OF CASQA BMP MANUAL).
2. SINGLE ROW GRAVEL BAGS – 2 BAGS HIGH (PER SE-8 OF CASQA BMP MANUAL).
3. INSTALL TEMPORARY CONSTRUCTION FENCE WITH WIND SCREEN.

LEGEND

- GRAVEL BAGS OR STRAW WADDLE
- SCREENED FENCE
- TREE PROTECTION FENCE
- DRAINAGE FLOW



CATCH BASIN INLET WITH PERMEABLE FILTER FABRIC 1

NOT TO SCALE

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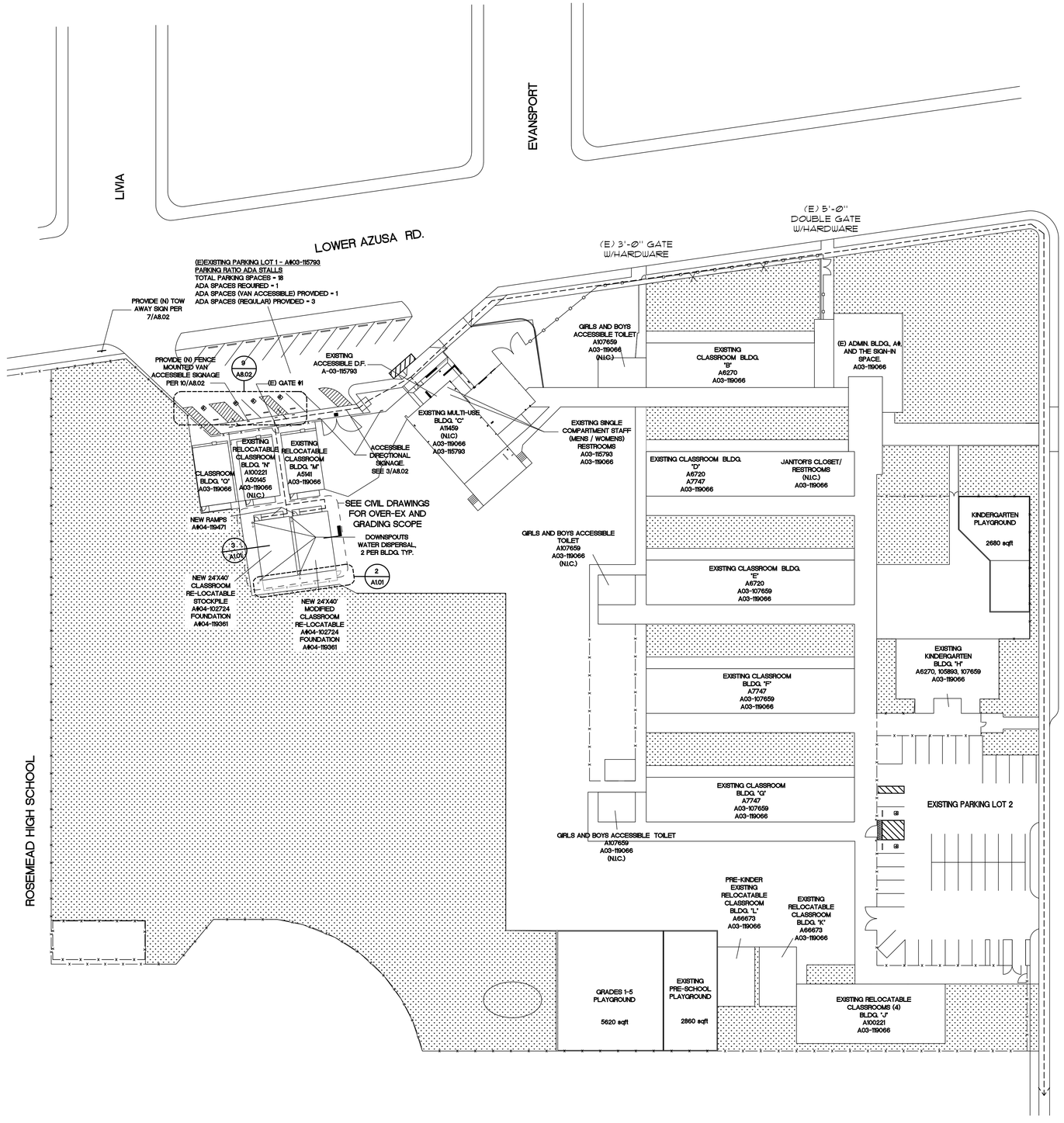
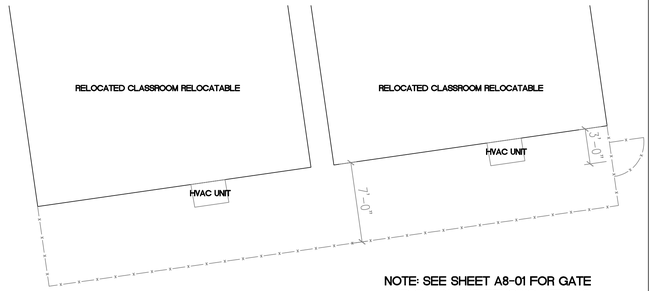


1 ENSINITA ES - SITE PLAN

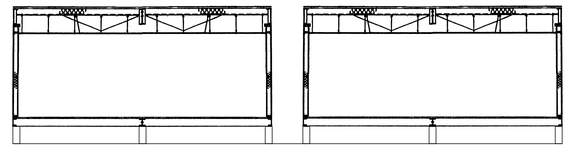
SCALE: 1/32"=1'-Ø"



NOTE: SEE SHEET A8-01 FOR GATE AND CHAIN LINE FENCING DETAILS

2 ENLARGED PLAN FOR NEW FENCING/GATE AT RELOCATABLES

SCALE: 3/16"=1'-Ø"



3 RELOCATABLE SECTION

SCALE: 3/16"=1'-Ø"

ENCINITA HVAC

BUILDINGS IN SCOPE	DSA-A#	CERTIFICATION STATUS
BLDG - E	03-107659	CERTIFIED
	03-119066	NOT CERTIFIED
	03-6720	CERTIFIED
BLDG - F	03-107659	CERTIFIED
	03-119066	NOT CERTIFIED
	03-7747	CERTIFIED
BLDG - G	03-107659	CERTIFIED
	03-119066	NOT CERTIFIED
	03-7747	UNKNOWN

GENERAL NOTE REGARDING RELOCATION OF BUILDINGS

BUILDINGS WILL BE MOVED TO THE SITE IN SEGMENTS OF 12'X40' AND RECONNECTED ON SITE PER THE REQUIREMENTS OF IR 16-1 SECTION 5.3.

ACCESSIBILITY NOTES

1. SITE WALKWAYS SHALL PROVIDE A BARRIER FREE PATH OF TRAVEL FOR A PERSON IN A WHEELCHAIR.THE PATH OF TRAVEL SHALL BE A HARD, DURABLE AND SLIP RESISTANT ROUTE A MINIMUM OF 48 INCHES IN WIDTH (11B-403.5.1 EXCEPTION 3) AND WITH A MAXIMUM GRADIENT SLOPE OF 5% AND MAXIMUM CROSS-SLOPE OF 2% (11B-403.3) ABRUPT CHANGES IN LEVEL SHALL NOT EXCEED A BEVELED SLOPE OF 1:2 WITH A 1/2" IN VERTICAL HEIGHT AND 1/4" MAXIMUM IN VERTICAL DIFFERENTIAL LEVELS. CONCRETE FINISH SHALL BE STABLE, FIRM AND SLIP-RESISTANT (11B-302).

2. PATH OF TRAVEL (P.O.T.) AS INDICATED, IS A COMMON BARRIER FREE EGRESS/ACCESS ROUTE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL AND IS AT LEAST 48" WIDE. THE PATH SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH. PASSING SPACES (11B-403.5.3) AT LEAST 60"X 80" ARE LOCATED NOT MORE THAN 200' APART. PARTS OF P.O.T. WITH CONTINUOUS GRADIENTS HAVE 60" LEVEL AREAS (11B-403.7) NOT MORE THAN 400' APART. THE CROSS-SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED, (P.O.T.) SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM (11B-307.4) AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80" (11B-307.2), THAT THERE ARE NO BARRIERS IN THE P.O.T.

3. GATES IN THE PATH OF TRAVEL SHALL HAVE ACCESSIBLE HARDWARE AND KICK PLATES.

4. FOR ALL SITE GRADIENTS SEE CIVIL PLANS

PATH OF TRAVEL STATEMENT

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIOINS 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 NONCOMPLIANT WITH THE CBC HAVE BENN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION TRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE INDICATED IN THESE CONSTRUCTION DOCUMENTS.

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

LEGEND

- LANDSCAPE
- SCOPE OF WORK
- PATH OF TRAVEL
- GATE #1 — (E) GATE #1 4'-6"W X 7'-0"H W/ LEVER HARDWARE

N

SITE PLAN
SCALE: 1/32"= 1' - 0"

DSA # 03-122690
FILE NO: 19-91

LICENSED ARCHITECT HELENA L. JUBANY 22214 REN. 5-31-24 STATE OF CALIFORNIA

ROSEMEAD SCHOOL DISTRICT
RSD - ENCINITA ELEMENTARY SCHOOL
CONSTRUCTION OF RE-LOCATABLES

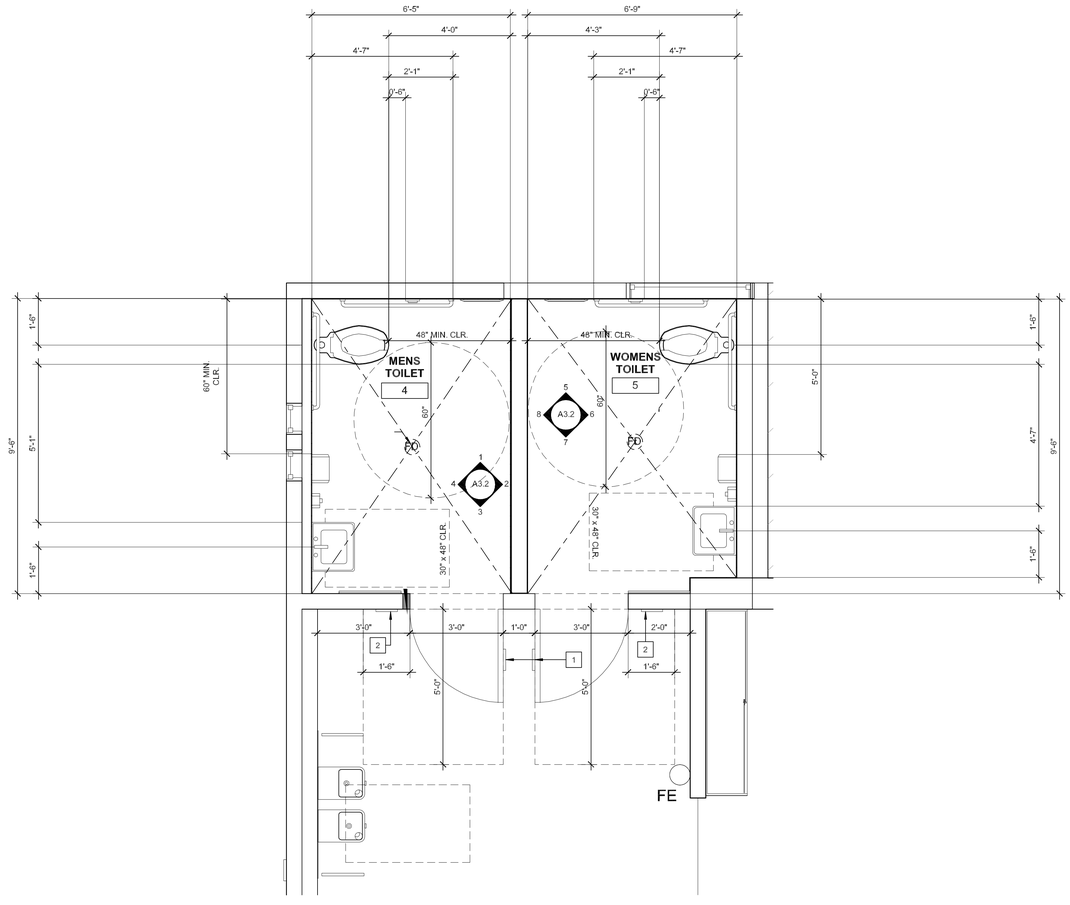
ROSEMEAD SCHOOL DISTRICT
PARK ROSEMEAD
4515 ENCINITA AVENUE
ROSEMEAD CA 91770

JUBANY NAC ARCHITECTURE
837 N. SPRING ST. | LOS ANGELES, CA 90012-2233 | P: 323.478.8070 | F: 323.969.3110
WWW.NACARCHITECTURE.COM

NAC NO	161-22104
FILE	-
DRAWN	HH
CHECKED	GC
DATE	02-06-2023

DSA SUBMITTAL

A1.01



1 ENSINITA ES - ENLARGED STAFF RESTROOM PLAN

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

GENERAL DEMOLITION NOTES

1. REMOVE (E) DOOR MOUNTED ACCESSIBLE RESTROOM SIGNAGE.
2. REMOVE (E) WALL MOUNTED ACCESSIBLE RESTROOM SIGNAGE.

NEW CONSTRUCTION KEYNOTES

1. PROVIDE (N) DOOR MOUNTED ACCESSIBLE RESTROOM SIGNAGE. SEE DET. 4/A8.04
2. PROVIDE (N) WALL MOUNTED ACCESSIBLE RESTROOM SIGNAGE. SEE DET. 2 & 3/A8.04

ENLARGED RESTROOM PLAN
SCALE: 1/2"= 1' - 0"

DSA # 03-122690
FILE NO: 19-91

LICENSED ARCHITECT
HELENA L. JUBANY
No. 22214
RENEWAL 5-31-25
STATE OF CALIFORNIA

ROSEMEAD SCHOOL DISTRICT
RSD - ENCINITA ELEMENTARY
CONSTRUCTION OF RE-LOCATABLES

ROSEMEAD SCHOOL DISTRICT
PARK ROSEMEAD
4515 ENCINITA AVENUE
ROSEMEAD CA 91770

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617 N. SPRING ST. | LOS ANGELES CA 90012 | (323) 478-9676 | F: 323.850.3110
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NAC NO.	161-22104
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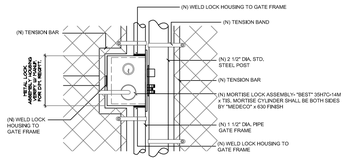
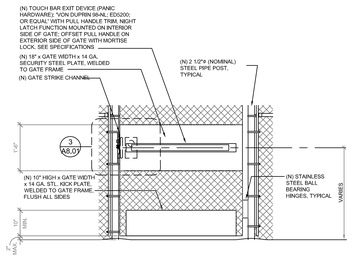
DRAWN	XX
CHECKED	XX
DATE	02-06-2023

DSA SUBMITTAL

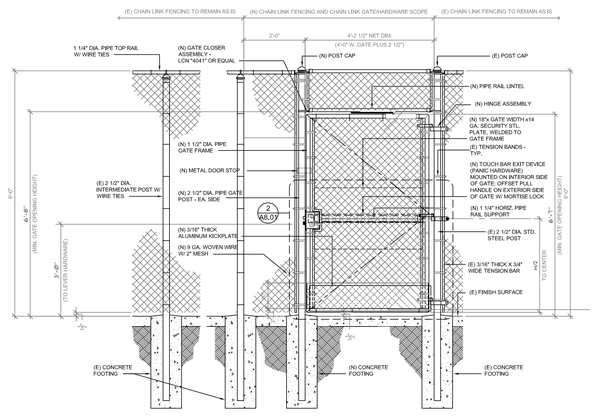
A2.7



3 CHAIN LINK GATE - EXTERIOR ELEVATION ACCESSORIES
Scale: 1 1/2" = 1'-0"



2 CHAIN LINK GATE - INTERIOR ELEVATION ACCESSORIES
Scale: 1/2" = 1'-0"



1 ACCESSIBLE CHAIN LINK GATE
Scale: 1/2" = 1'-0"

GATE DETAILS

DSA # 03-122690
FILE NO: 19-91

LICENSED ARCHITECT
ELENA L. JUBANY
No. 22214
EXP. 5-31-24
STATE OF CALIFORNIA

ROSEMEAD SCHOOL DISTRICT
RSD - ENCINITA ELEMENTARY SCHOOL
CONSTRUCTION OF RE-LOCATABLES

ROSEMEAD SCHOOL DISTRICT
ROSEMEAD, CALIFORNIA
ESTABLISHED 1887

ROSEMEAD
SCHOOL DISTRICT
PARK ROSEMEAD
4515 ENCINITA AVENUE
ROSEMEAD CA 91770

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NAC NO	161-22104
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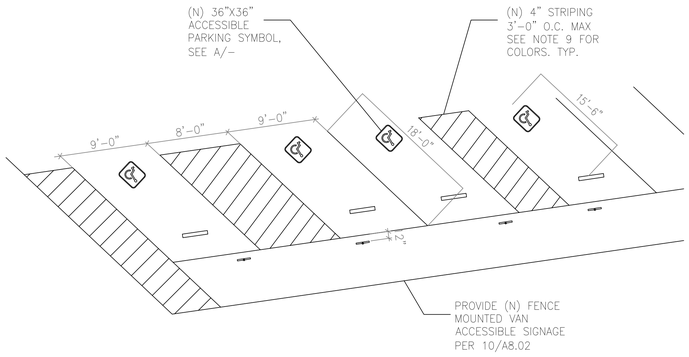
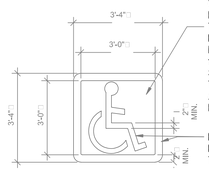
DATE	02-06-2023

DSA SUBMITTAL

A8.01



9 PARKING STRIPING
Scale: 1/8" = 1'-0"



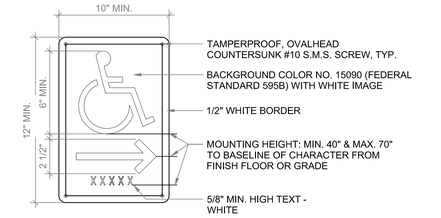
PAVEMENT SYMBOL SHALL BE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY IN WHITE TRAFFIC PAINT ON A BLUE TRAFFIC PAINT BACKGROUND, MATCHING COLOR 15090 IN FEDERAL STANDARD 595B - TYPICAL AT EACH ACCESSIBLE PARKING STALL.

FIGURE & BORDER COLOR TO BE WHITE

Ⓐ **ACCESSIBLE PARKING SYMBOL**

NOTES

1. A CONCRETE CUTTING SAW SHALL BE USED TO SAWCUT ALL EXISTING PAVEMENT ALONG LINES OF REMOVAL, WHERE NEW PAVEMENT IS TO ADJOIN EXISTING.
2. OVERLAP SEALER COAT A MINIMUM OF 12" BEYOND JOINT LINES, WHERE NEW PAVEMENT ABUTTS EXISTING.
3. ALL SURFACES SHALL PROVIDE POSITIVE DRAINAGE FREE FROM DEPRESSIONS AND SHALL BE FLOODED AS NECESSARY TO VERIFY DRAINAGE CHARACTERISTICS.
4. DUST SHALL BE CONTROLLED BY WATERING.
5. PATCH, REPAIR AND/OR RECONSTRUCT ALL DAMAGED AREAS OF EXISTING PAVING TO MATCH ADJACENT SURFACES.
6. REFER TO ELECTRICAL AND PLUMBING DRAWINGS PRIOR TO EXCAVATING, TRENCHING OR GRADING OPERATIONS. VERIFY LOCATIONS AND DEPTHS OF UTILITIES AND PROTECT THROUGH-OUT THE WORK.
7. SCORE CONCRETE WALKS AND RAMPS AS INDICATED. EQUAL SPACES BETWEEN EXPANSIONS JOINTS.
8. DOUBLE LINES ACROSS CONCRETE WALKS INDICATE EXPANSION JOINTS AT 20'-0" O.C. MAXIMUM.
9. STRIPING & LETTERING SHALL BE 2 COATS OF WHITE TRAFFIC PAINT APPLIED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. ALL LETTERING TO BE 12" HIGH WITH 1-1/2" WIDE STROKE. ALL STRIPING 4" WIDE. ALL STRIPING TO BE APPLIED WITH CUTOUTS & TEMPLATES WITHOUT FUZZINESS OR WAVINESS.
10. SEE SITE PLAN FOR OVERALL LAYOUT.
11. THESE DETAILS ARE FOR REFERENCE AND DIMENSION CONTROL ONLY.
12. 8' ACCESS AISLE SHALL BE PLACED ON THE PASSENGER SIDE OF A VAN ACCESSIBLE SPACE.
13. ALL DIMENSIONS ARE TO CENTERLINE OF STRIPE INLESS OTHERWISE INDICATED.
14. PARKING SPACE AND ACCESS AISLE SHALL HAVE A MAXIMUM SLOPE OF 1.5% IN ANY DIRECTION.
15. POLE SIGNAGE SHALL NOT BE PLACED IN A PATH OF TRAVEL.
16. IF POLE INSTALLED NECT TO ACESSIBEL WALK PROVIDE 1'-0: MIN. CLEAR.
17. PER CH 11B-502.2 EXCEPTION: VAN PARKING SPACES SHALL BE PERMITED TO BE 108 INCHES WIDE MINIMUM WHERE THE ACCESS AISLE IS 96 INCHES WIDE MINIMUM.



NOTE:
VISUAL CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I". STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 10 PERCENT MINIMUM AND 20 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER

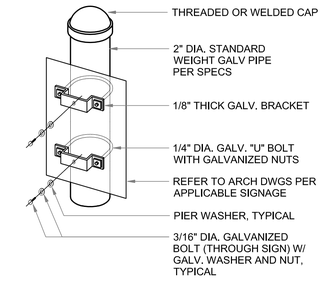
CHARACTER HEIGHT TO BE 5/8" MIN. AND 2" MAX BASED ON THE HEIGHT OF THE UPPERCASE "I" CBC 11B-703.2.5

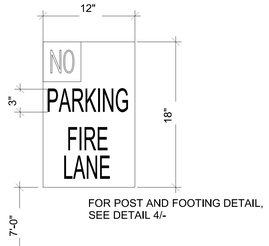
ISA (INTERNATIONAL SYMBOL OF ACCESSIBILITY) SHALL COMPLY WITH CBC 11B-703.7 & CBC FIGURE 11B-703.7.2.1 (PROPORTIONS), TYP.

ACCESSIBLE DIRECTIONAL SIGN; COMPLY WITH *VISUAL* SIGN REQUIREMENTS (11B-703.5)

REFER TO SPEC 10 1400 - 2.3 - B AND CBC 2016 11B-703.5 FOR REQUIREMENTS FOR VISUAL CHARACTER SIGNS

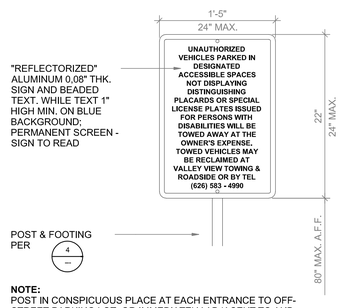
3 ACCESSIBLE DIRECTIONAL SIGNAGE
Scale: 3" = 1'-0"





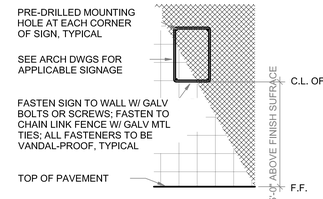
1. METAL REFLECTORIZED SIGN
2. SIZE: MINIMUM 12"x18"
3. MINIMUM 3" LETTERING
4. WHITE BACKGROUND WITH RED LETTERING
5. BOTTOM OF THE SIGN SHALL BE 7'-0" ABOVE GROUND LEVEL.
6. FOR SIGN POST MOUNTING REFER TO 2/-

8 FIRE LANE SIGNAGE
Scale: 3/16" = 1'-0"

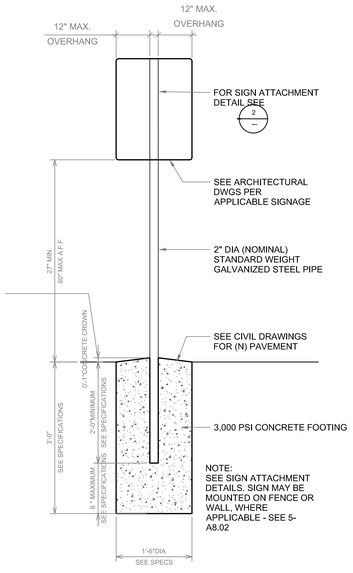


NOTE:
POST IN CONSPICUOUS PLACE AT EACH ENTRANCE TO OFF-STREET PARKING LOT, OR IMMEDIATELY ADJACENT TO AND VISIBLE FROM EACH DESIGNATED STALL. SIGN SHALL NOT OBSTRUCT PASSAGE FROM PARKING STALL OR ANY WALKWAY. ALL LETTERS MUST BE PERMANENT PART OF SIGN. DECALS/STICKERS ARE NOT ACCEPTABLE.

7 TOW AWAY PARKING LOT SIGN
Scale: 1 1/2" = 1'-0"

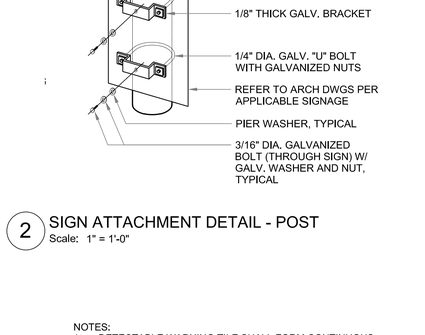


5 WALL & FENCE MOUNTING SIGN
Scale: 1" = 1'-0"

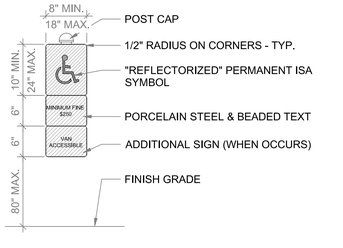


NOTE:
SEE SIGN ATTACHMENT DETAILS. SIGN MAY BE MOUNTED ON FENCE OR WALL, WHERE APPLICABLE - SEE 5-A8.02

4 POST MOUNTED SIGN - FOOTING
Scale: 1" = 1'-0"



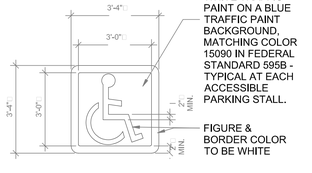
2 SIGN ATTACHMENT DETAIL - POST
Scale: 1" = 1'-0"



NOTE: FOR FENCE ATTACHMENT SEE 5/-

NOTE:
TEXT AND SYMBOLS TO BE COLOR WHITE ON BLUE BACKGROUND-TYPICAL

10 ACCESSIBLE PARKING SIGNAGE
Scale: 1" = 1'-0"



PAVEMENT SYMBOL SHALL BE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY IN WHITE TRAFFIC PAINT ON A BLUE TRAFFIC PAINT BACKGROUND, MATCHING COLOR 15090 IN FEDERAL STANDARD 595B - TYPICAL AT EACH ACCESSIBLE PARKING STALL.

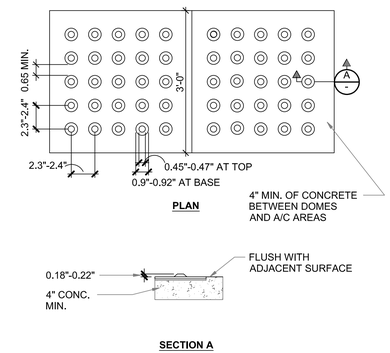
FIGURE & BORDER COLOR TO BE WHITE

Ⓐ **ACCESSIBLE PARKING SYMBOL**

6 ACCESSIBLE PARKING SYMBOL
Scale: 1" = 1'-0"

NOTES:
1. DETECTABLE WARNING TILE SHALL FORM CONTINUOUS SURFACE OF CROSSWALK.
2. COLOR YELLOW TO MATCH FEDERAL COLOR NO. 33538, PER STANDARD NO. 595C.
3. PROVIDE 5 YEAR PRODUCT WARRANTY PER DSA BULLETIN ISSUED 10/31/2002, REVISED 04/09/2008

WHERE THE DETECTABLE WARNING SURFACE DOES NOT PROVIDE A 70 PERCENTAGE MINIMUM CONTRAST WITH ADJACENT WALKING SURFACES, A 1-INCH (25 MM) WIDE MINIMUM VISUALLY CONTRASTING SURFACE SHALL SEPARATE THE DETECTABLE WARNING FROM ADJACENT WALKING SURFACES. YELLOW COLOR APPROX. FS 33538 OF FEDERAL STANDARD 595C.



SECTION A

1 DETECTABLE WARNING DOMES
Scale: 3" = 1'-0"

SITE DETAILS

DSA # 03-122690
FILE NO: 19-91

LICENSED ARCHITECT HELENA L. JUBANY 22214 REN. 5-31-24 STATE OF CALIFORNIA

ROSEMEAD SCHOOL DISTRICT
RSD - ENCINITA ELEMENTARY SCHOOL
CONSTRUCTION OF RE-LOCATABLES

ROSEMEAD SCHOOL DISTRICT
PARK ROSEMEAD
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DATE	02-06-2023

DSA SUBMITTAL

A8.02

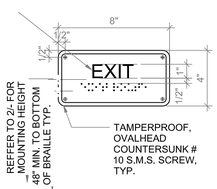
CHARACTER TYPE. INTEGRAL LETTERS, SYMBOL & BRAILLE RAISED 1/32" BY ETCHING OR SAND BLASTING AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE COMPLYING WITH 11B 703.2. TYP. FOR ALL SIGNS

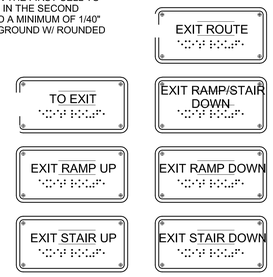
CHARACTER SIZE. RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8" AND A MAXIMUM OF 2" HIGH.

PROPORTIONS. VISUAL CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I". STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 10 PERCENT MINIMUM AND 20 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER

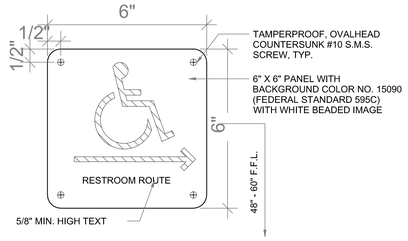
BRAILLE. CALIFORNIA CONTRACTED GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE IS REQUIRED IN OTHER PORTIONS OF THESE STANDARDS. DOTS SHALL BE 1/10" (2.54 MM) ON CENTERS IN EACH CELL WITH 2/10" (5.08 MM) SPACE BETWEEN CELLS, MEASURED FROM THE SECOND COLUMN OF DOTS IN THE FIRST CELL TO THE FIRST COLUMN OF DOTS IN THE SECOND CELL. DOTS SHALL BE RAISED A MINIMUM OF 1/40" (0.653 MM) ABOVE THE BACKGROUND W/ ROUNDED OR EASED EDGES.

FINISH AND CONTRAST. CHARACTERS, SYMBOLS AND BACKGROUNDS SHALL HAVE A NON-GLARE FINISH. CHARACTERS & SYMBOLS SHALL HAVE 70% MINIMUM CONTRAST DIFFERENCE WITH BACKGROUNDS.





8 EXIT SIGNAGE
Scale: 3" = 1'-0"



NOTE:
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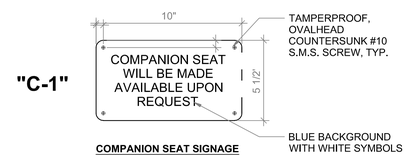
CHARACTER HEIGHT TO BE 5/8" MIN. AND 2" MAX BASED ON THE HEIGHT OF THE UPPERCASE "I" CBC 11B-703.2.5

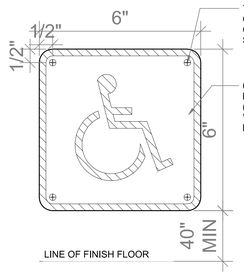
ISA (INTERNATIONAL SYMBOL OF ACCESSIBILITY) SHALL COMPLY WITH CBC 11B-703.7 & CBC FIGURE 11B-703.7.2.1 (PROPORTIONS), TYP.

7 RESTROOM DIRECTIONAL SIGNAGE
Scale: 6" = 1'-0"



COMPANION SEAT SIGNAGE

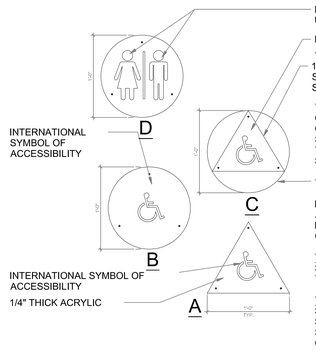
6 SEAT SIGNAGE - FRONT OF BLEACHER
Scale: 3" = 1'-0"



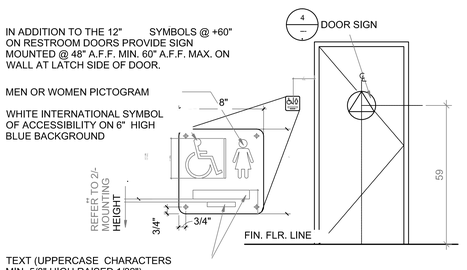
NOTE:
ALL BUILDING ENTRANCES THAT ARE ACCESSIBLE TO AND USABLE BY PERSONS WITH DISABILITIES SHALL BE IDENTIFIED WITH AT LEAST ONE STANDARD SIGN, TO BE VISIBLE TO PERSONS APPROACHING FROM PEDESTRIANS WAYS.

ISA (INTERNATIONAL SYMBOL OF ACCESSIBILITY) SHALL COMPLY WITH CBC 11B-703.7 & CBC FIGURE 11B-703.7.2.1 (PROPORTIONS), TYP.

5 INTERNATIONAL SYMBOL OF ACCESSIBILITY
Scale: 6" = 1'-0"



4 RESTROOM DOOR SIGNS
Scale: 1 1/2" = 1'-0"



IN ADDITION TO THE 12" SYMBOLS @ +60" ON RESTROOM DOORS PROVIDE SIGN MOUNTED @ 48" A.F.F. MIN. 60" A.F.F. MAX. ON WALL AT LATCH SIDE OF DOOR.

MEN OR WOMEN PICTOGRAM

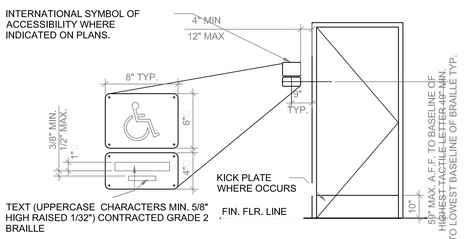
WHITE INTERNATIONAL SYMBOL OF ACCESSIBILITY ON 6" HIGH BLUE BACKGROUND

TEXT (UPPERCASE CHARACTERS MIN. 5/8" HIGH RAISED 1/32") CONTRACTED GRADE 2 BRAILLE

RAISED CHARACTER (1) & BRAILLE (2) ON RESTROOM IDENTIFICATION SIGN; COMPLY WITH *TACTILE* SIGN REQUIREMENTS & *VISUAL* SIGN REQUIREMENTS (11B-703.5); BOTH RAISED CHARACTERS AND BRAILLE SHALL BE CENTERED ON THE SIGN TO ENSURE 18"x18" CLEAR APPROACH AREA IS MAINTAINED.

3 RESTROOM WALL SIGN MOUNTING HEIGHT
Scale: 1/2" = 1'-0"

PERMANENT ROOM IDENTIFICATION SIGNAGE TO BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. MOUNTING LOCATION MUST ALLOW A PERSON TO APPROACH WITHIN 3" WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING PATH OF THE DOOR. (PLACE SIGN NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT, WHERE THERE IS NO SPACE ADJACENT TO THE LATCH SIDE OF THE DOOR). ROOM IDENTIFICATION SIGNAGE TO INDICATE ROOM NAME AND NUMBER.



2 ROOM NAME & NUMBER SIGN MOUNTING HEIGHT
Scale: NTS.

SIGNAGE NOTES

11B-703.2 RAISED CHARACTERS

RAISED CHARACTERS SHALL COMPLY WITH SECTION 11B-703.2 AND SHALL BE DUPLICATED IN BRAILLE COMPLYING WITH SECTION 11B-703.3. RAISED CHARACTERS SHALL BE INSTALLED IN ACCORDINACE WITH SECTION 11B-703.4.

11B-703.2.1 DEPTH: RAISED CHARACTERS SHALL BE 1/32 INCH MIN. ABOVE THEIR BACKGROUND.

11B-703.2.2 CASE: CHARACTERS SHALL BE UPPERCASE.

11B-703.2.3 STYLE: CHARACTERS SHALL BE SANS SERIF. CHARACTERS SHALL NOT BE ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OF OTHER UNUSAL FORMS.

11B-703.2.4 CHARACTER PROPORTIONS: CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MINIMUM AND 110% MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I".

11B-703.2.5 CHARACTER HEIGHT: CHARACTER HEIGHT MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8" MINIMUM AND 2" MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I".

11B-703.2.6 STROKE THICKNESS: STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15% MAXIMUM OF THE HEIGHT OF THE CHARACTER.

11B-703.2.7 CHARACTER SPACING: CHARACTER SPACING SHALL BE MEASURED BETWEEN THE TWO CLOSEST POINTS OF ADJACENT RAISED CHARACTERS WITHIN A MESSAGE, EXCLUDING WORD SPACES. WHERE CHARACTERS HAVE RECTANGULAR CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/8" MIN. AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM. WHERE CHARACTERS HAVE OTHER CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/16" MIN. AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM AT THE BASE OF THE CROSS SECTIONS, AND 1/8" MIN. AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAX. AT THE TOP OF THE CROSS SECTIONS. CHARACTERS SHALL BE SEPARATED FROM RAISED BORDERS AND DECORATIVE ELEMENTS 3/8" MINIMUM.

11B-703.2.8 LINE SPACING: SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF RAISED CHARACTERS WITHIN A MESSAGE SHALL BE 135% MIN. AND 170% MAX. OF THE RAISED CHARACTER HEIGHT.

11B-703.2.9 FORMAT: TEXT SHALL BE IN A HORIZONTAL FORMAT.

11B-703.3 BRAILLE

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

11B-703.3.1 DIMENSIONS AND CAPITALIZATION: BRAILLE DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHALL COMPLY WITH TABLE 11B-703.3.1. 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.

11B-703.3.2 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" MIN. AND 1/2" MAX. FROM ANY OTHER TACTILE CHARACTERS AND 3/8" MIN. FROM RAISED BORDERS AND DECORATIVE ELEMENTS.
EXCEPTION: BRAILLE PROVIDED ON ELEVATOR CAR CONTROLS SHALL BE SEPARATED 3/16" MIN. AND SHALL BE LOCATED EITHER DIRECTLY BELOW THE CORRESPONDING RAISED CHARACTERS OR SYMBOLS

11B-703.4 INSTALLATION HEIGHT AND LOCATION

SIGNS WITH TACTILE CHARACTERS SHALL COMPLY WITH SECTION 11B-703.4.

11B-703.4.1 HEIGHT ABOVE FINISH FLOOR OR GROUND: TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48" MIN. ABOVE THE FINISH FLOOR OR GROUND SURFACE MEASURED FROM THE BASELINE OF THE LOWEST BRAILLE CELLS CHARACTER, AND 60" MAX. ABOVE THE FINISH FLOOR OR GROUND SURFACE MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS.
EXCEPTION: TACTILE CHARACTERS FOR ELEVATOR CAR CONTROLS SHALL NOT BE REQUIRED TO COMPLY WITH SECTION 11B-703.4.1.

11B-703.4.2 LOCATION: WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18" MIN. BY 18" MIN., CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION. WHERE PROVIDED, SIGNS IDENTIFYING PERMANENT ROOMS AND SPACES SHALL BE LOCATED AT THE ENTRANCE TO, AND OUTSIDE OF THE ROOM OR SPACE. WHERE PROVIDED, SIGNS IDENTIFYING EXITS SHALL BE LOCATED AT THE EXIT DOOR WHEN APPROACHED IN THE DIRECTION OF EGRESS TRAVEL.
EXCEPTION: IN ALTERATIONS WHERE SIGN INSTALLATION LOCATIONS IDENTIFIED IN SECTION 11B-703.4.2 ARE OBSTRUCTED OR OTHERWISE UNAVAILABLE FOR SIGN INSTALLATION, SIGNS WITH TACTILE CHARACTERS SHALL BE PERMITTED ON THE PUSH SIDE OF DOORS WITH CLOSERS AND WITHOUT HOLD-OPEN DEVICES.

DSA # 03-122690
FILE NO: 19-91

LICENSED ARCHITECT HELENA L. JUBANY No. 22214 STATE OF CALIFORNIA 5-31-24

ROSEMEAD SCHOOL DISTRICT
RSD - ENCINITA ELEMENTARY SCHOOL
CONSTRUCTION OF RE-LOCATABLES

ROSEMEAD SCHOOL DISTRICT
PARK ROSEMEAD
4515 ENCINITA AVENUE
ROSEMEAD CA 91770

JUBANY NAC ARCHITECTURE
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DATE	02-06-2023

DSA SUBMITTAL

DETAILS

A8.04

FIRE ALARM SYMBOL LIST

CANDELA RATING (75) A1-1 V2-1	CEILING MOUNTED SPEAKER/STROBE, CANDELA RATING AS INDICATED WITH 1/2 WATT SPEAKER TAPPED.
SPEAKER TAPPED WP A1-1 [2]	EXTERIOR W.P. FIRE ALARM SPEAKER. "A1-1" DENOTES AUDIBLE FA SIGNAL CIRCUIT NUMBER.
V2-1 (15)	CEILING MOUNTED STROBE. CANDELA RATING AS INDICATED.
S1-1	ADDRESSABLE SMOKE DETECTOR, PHOTOELECTRIC TYPE. "S1-1" DENOTES LOOP DETECTOR IDENTIFICATION NUMBER.
S1-2	HEAT DETECTOR IN CEILING SPACE ABOVE T-BAR CEILING. "S1-2" DENOTES LOOP DETECTOR IDENTIFICATION NUMBER.
FATC	FIRE ALARM TERMINAL CABINET WITH TERMINAL STRIPS. 12"x16"x4" DEEP.
MFACP	MAIN FIRE ALARM CONTROL PANEL.
FA	FIRE ALARM
RPS	REMOTE POWER SUPPLY.
VOICE EVAC	VOICE EVACUATION PANEL
MFATC	MAIN FIRE ALARM TERMINAL CABINET WITH TERMINAL STRIPS.
(E)	EXISTING TO REMAIN.
(N)	NEW.
W.P.	WEATHERPROOF.
EOL	END OF LINE RESISTOR.
FA ANNUN	FIRE ALARM ANNUNCIATOR PANEL.
PB	PULLBOX, WEATHERPROOF.
RA	REMOTE AMPLIFIER.
SLC	SIGNALLING LINE CIRCUIT.
(XR)	DISCONNECT AND REMOVE EXISTING DEVICES. DEMOLISH EXISTING ASSOCIATED WIRES/CABLES.

FIRE ALARM CABLE AND WIRING

"F" CABLE -	"WEST PENN" NO. D980, 1 PAIR #18 NON-SHIELDED - FIRE ALARM ADDRESSABLE LOOP.
"FW" CABLE -	"WEST PENN" NO. AQC225, 1 PAIR #16 NON-SHIELDED - FIRE ALARM ADDRESSABLE LOOP (UNDERGROUND).
"A" CABLE -	2#14 TWISTED PAIR, AUDIO CABLE (SPEAKER).
"AW" CABLE -	2#14 TWISTED PAIR, AUDIO CABLE WET LOCATION (AUDIO).
"V" CABLE -	2#12 AWG-FIRE ALARM VISUAL CIRCUIT CABLE.
F,A,V / F,A,V	3/4"C, WITH ONE "F" CABLE, ONE "A" CABLE AND ONE "V" CABLE.
F	3/4" CONDUIT WITH ONE "F" CABLE.
2F	3/4" CONDUIT WITH TWO "F" CABLES.
V	3/4" CONDUIT WITH ONE "V" CABLE.
2V	3/4" CONDUIT WITH TWO "V" CABLES.
A	3/4" CONDUIT WITH ONE "A" CABLE.
2A	3/4" CONDUIT WITH TWO "A" CABLES.
AW	3/4" CONDUIT WITH ONE "AW" CABLE.
2AW	3/4" CONDUIT WITH TWO "AW" CABLES.
2F,2A,2V	1-1/2" CONDUIT WITH TWO "F", TWO "A", TWO "V" CABLES.
2A,2V	1" CONDUIT WITH TWO "A", TWO "V" CABLES.
F,A,2V	1" CONDUIT WITH ONE "F", ONE "A", TWO "V" CABLES.

GENERAL FIRE ALARM NOTES

1. THE SYSTEM SHALL CONFORM TO CALIFORNIA CODE OF REGULATIONS (CCR) TITLES 19 & 24 AS APPLICABLE TO THIS PROJECT.
2. UPON COMPLETION OF SYSTEM INSTALLATION, THE SYSTEM SHALL BE TESTED IN THE PRESENCE OF AND IN A MANNER ACCEPTABLE TO DSA/IOR. CONTRACTOR TO SUPPLY NECESSARY TESTING EQUIPMENT INCLUDING A "DECIMETER" TO CHECK ACCEPTABLE NOISE LEVELS OF AUDIBLE DEVICES, PROVIDE TEST RESULTS PER NFPA 72 TO ARCHITECT, DSA, INSPECTOR OF RECORD, OWNER AND TO THE LOCAL FIRE AUTHORITY.
3. PENETRATIONS OF ALL FIRE-RATED WALLS SHALL BE PROTECTED IN ACCORDANCE WITH THE CALIFORNIA BUILDING CODE, PART 2. PROVIDE DETAILS AND DESIGN NUMBERS.
4. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR A CONSTRUCTION CHANGE DOCUMENTS (CCD) APPROVED BY THE OFFICE OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
5. A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE OFFICE 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.
6. AUTOMATIC VOICE EVACUATION FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AS AMENDED BY THE ARTICLE 91. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUJS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011.
7. LOCATION AND PLACEMENT OF FIRE ALARM DEVICES ARE NOT TO BE CONSIDERED DIAGRAMMATIC IN NATURE. ANY CHANGE IN THE LOCATION OR PLACEMENT OF BOTH DETECTION AND NOTIFICATION DEVICES MUST BE REVIEWED AND APPROVED BY DSA FLS. FINAL APPROVAL OF DEVICE PLACEMENT IS SUBJECT TO FIELD VERIFICATION OF CODE COMPLIANCE.
8. ALL WIRING, INITIATING DEVICES AND ANNUNCIATOR PANEL SHALL BE SUPERVISED TO THE PRINCIPAL POINT OF ANNUNCIATION.
9. ALL TERMINATIONS IN TERMINAL CABINETS SHALL BE ON TERMINAL BLOCKS.
10. EXISTING FIRE ALARM SYSTEM SHALL REMAIN OPERATIONAL UNTIL THE NEW SYSTEMS ARE TESTED, APPROVED, AND ACCEPTED BY SCHOOL DISTRICT, OTHERWISE HUMAN 24 HOURS FIRE WATCH SHALL BE PROVIDED BY FIRE ALARM CONTRACTOR.

GENERAL NOTES

1. "THE FIRE ALARM SYSTEM SHALL CONFORM TO ARTICLE 760 OF THE CALIFORNIA ELECTRICAL CODE, CURRENT CALIFORNIA TITLE 24 REQUIREMENTS, CALIFORNIA FIRE CODE, NFPA 72 AND 101 STANDARDS, CALIFORNIA BUILDING CODE ACCESSIBILITY REQUIREMENTS."
2. "CONTRACTOR SHALL INSTALL AND FURNISH A COMPLETE ADDRESSABLE FIRE ALARM VOICE EVACUATION SYSTEM, INCLUDING BUT NOT LIMITED TO WIRING, CONDUITS AND DEVICES REQUIRED FOR SATISFACTORY OPERATION OF SYSTEM."
3. ALL EXPOSED CONDUITS AND BOXES WITH THE EXCEPTION OF THOSE IN UNOCCUPIED AREAS LIKE JANITOR OR UTILITY ROOMS, SHALL BE PAINTED TO MATCH THE SURFACES WHERE INSTALLED.
4. THE REPRESENTATION OF PHYSICAL PLACEMENT OF EXISTING CONDUITS HAS BEEN DEVELOPED FROM THE BEST INFORMATION AVAILABLE TO THE DISTRICT AT THE TIME THE DRAWINGS WERE PREPARED. THE DISTRICT PROVIDES THIS ONLY AS A GENERAL GUIDELINE FOR THE CONVENIENCE OF BIDDERS/CONTRACTORS AND DOES NOT GUARANTEE OR WARRANT IN ANY WAY EXPRESSLY OR IMPLIEDLY, THE ACCURACY OF THESE REPRESENTATIONS. NOTHING IN THIS DISCLAIMER AFFECTS IN ANY WAY THE DUTY OF THE CONTRACTOR TO FURNISH ACCURATE "AS BUILT" DRAWINGS AFTER THE COMPLETION OF THE CONTRACT.
5. IN EXISTING BUILDINGS, CONTRACTORS SHALL NOT WORK IN AREAS CONTAMINATED BY MATERIALS MADE OF ASBESTOS UNTIL THE ASBESTOS MATERIALS HAVE BEEN REMOVED OR ENCAPSULATED.
6. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND EQUIPMENT AND MATERIAL APPROVED FOR USE UNDER THIS CONTRACT.
7. CONTRACTOR SHALL NOT DISMANTLE OR REMOVE EXISTING FIRE ALARM SYSTEM DEVICES UNTIL THE NEW FIRE ALARM SYSTEM IS COMPLETELY OPERATIONAL AND THE UNUSED EXISTING SYSTEM DEVICES MUST BE REMOVED TO COMPLETE THE PROJECT. ALL ABANDONED CIRCUITS AND WIRING SHOULD BE REMOVED COMPLETELY RATHER THAN LABELED.
8. QUANTITY OF WIRES SHOWN IN ALL CONDUITS IS FOR GENERAL GUIDELINE. SUPPLIER OF FA SYSTEM SHALL PREPARE CONSTRUCTION DRAWINGS SHOWING SHOWING ALL NECESSARY WIRES AND CABLES AND VERIFY SIZES OF ALL CONDUITS SHOWN.
9. DRAWINGS DO NOT SHOW ALL THE NECESSARY J-BOXES AND PULL BOXES WHICH WILL BE REQUIRED THROUGHOUT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL THESE BOXES AS NECESSARY TO TERMINATE CONDUITS AND RACEWAYS. PAINT BOXES TO MATCH COLOR OF THE FINISHED SURFACE THAT THE BOXES ARE ATTACHED BUILDINGS.
10. ALL JUNCTION BOXES AND DEVICES INDICATED ON BUILDING EXTERIORS SHALL BE WEATHERPROOF TYPE.
11. FIRE ALARM WIRES SHALL BE COPPER TYPE THWN/THHN.
12. WHEN ALL FIRE ALARM DEVICES ARE INSTALLED AND PROGRAMMING IS COMPLETE, THE FIRE ALARM DEVICE MAP IN THE SCHOOL MAIN OFFICE SHOULD BE UPDATED TO INDICATE TO SCHOOL PERSONNEL THE LOCATIONS OF THE NEW DEVICES.
13. LABEL DESCRIPTIONS" INDICATING DEVICE TYPE AND LOCATION THAT ARE DISPLAYED ON THE FIRE ALARM LCD DISPLAY SHOULD BE CLEAR AND EASILY UNDERSTOOD BY THE OFFICE STAFF. DESCRIPTIONS SHOULD BE BASED ON THE STAFFS UNDERSTANDING OF THE SITE AND NOT ON INFORMATION TAKEN FROM PRINTS.
14. PROVIDE 24 HOURS FIRE WATCH DURING CONSTRUCTION. SHOULD EXISTING SYSTEM NEED TO BE INTERRUPTED. INCLUDE ALL COST IN ORIGINAL BID.
15. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY THE TYPE OF CEILING CONSTRUCTION AND TO PROVIDE THE PROPER TYPE OF BOX MOUNTING AND SUPPORT FOR FIRE ALARM INITIATION DEVICES.

CONSTRUCTION NOTES

1. VERIFY CONDUIT STUB UP AREAS OUTSIDE ALL BUILDINGS AND STUB UP AT BEST AREAS TO AVOID EXISTING WINDOWS, VENTS, ETC.
2. PERFORM THE NECESSARY DEMOLITION WORK WITH GREAT CARE AND WITH SMALL TOOLS IN ORDER NOT TO JEOPARDIZE EXISTING STRUCTURE AND EQUIPMENT TO REMAIN.
3. HEAT DETECTORS INSTALLED ABOVE SUSPENDED CEILING MUST HAVE THEIR LOCATIONS CLEARLY MARKED BELOW THE CEILING AND BE EASILY ACCESSIBLE. LABEL LETTERING SHOULD BE 1/2" HIGH, RED ON WHITE BACKGROUND AND BOLD ENOUGH TO BE EASILY SEEN BY PERSONNEL FROM THE FLOOR.
4. REPLACE DAMAGED CEILING TILES AND CEILING TILES WITH HOLES DUE TO REMOVAL OF EXISTING DEVICES, J-BOX, CONDUITS, WIREMOLD RACEWAYS & ETC.
5. UNLESS SPECIFICALLY APPROVED ON THE DRAWINGS, NO STRUCTURAL MEMBER SHALL BE ALTERED BY CUTTING, BORING, BRAZING, DRILLING, NOTCHING, WELDING AND ETC. WITHOUT THE SEOR AND DSA REVIEW AND APPROVAL.
6. SEAL AND CAULK AS REQUIRED AT ALL PENETRATIONS.
7. WHEREVER POSSIBLE, CONCEAL NEW CONDUITS AND BOXES IN CEILING, ATTIC SPACE OR WALLS. FISH CONDUITS INSIDE OF STUD WALLS WHERE POSSIBLE. WHERE EXPOSED RACEWAYS AND BOXES HAVE TO BE USED IN FINISHED AREAS, USE "WIREMOLD" TYPE SURFACE RACEWAYS. FOR ONE SD PER CLASSROOM, RUN THE WIREMOLD FROM WALL J-BOX UP TO THE SD ONLY. FOR TWO SD PER CLASSROOM, LOCATE THE TWO SD CLOSER TO WALLS WITH A CENTER-TO-CENTER SPACE BETWEEN SD IN COMPLIANCE WITH NFPA-72 AND USE A SHORT PIECE OF WIREMOLD FROM EACH WALL J-BOX TO EACH SD. DO NOT RUN WIREMOLD ACROSS THE CEILING BUT RUN ALONG WALLS.
8. IF STRUCTURAL MEMBERS NOT INDICATED TO BE REMOVED ARE INTERFERING WITH NEW CONSTRUCTION, OBTAIN WRITTEN AUTHORIZATION FROM ENGINEER BEFORE REMOVING SUCH MEMBERS. DSA APPROVAL REQUIRED.
9. COORDINATE THE DEMOLITION WORK AND NEW CONSTRUCTION TO PERMIT CONTINUED OPERATION OF ALL FACILITIES NECESSARY TO BE KEPT IN OPERATION.

PARTIAL LIST OF APPLICABLE CODES AS OF January 1, 2020*

2022 California Administrative Code (CAC), Part 1, Title 24 CCR*
2019 California Building Code (CBC), Part 2, Title 24 CCR
(2018 International Building Code, Vol. 1 & 2, and 2019 California amendments)
2019 California Electrical Code (CEC), Part 3, Title 24 CCR
(2017 National Electrical Code and 2019 California Amendments)
2019 California Mechanical Code (CMC), Part 4, Title 24 CCR
(2018 IAPMO Uniform Mechanical Code and 2019 California amendments)
2019 California Plumbing Code (CPC), Part 5, Title 24 CCR
(2018 IAPMO Uniform Plumbing Code and 2019 California amendments)
2019 California Energy Code (CEC), Part 6, Title 24 CCR
2019 California Fire Code (CFC), Part 9, Title 24 CCR
(2018 International Fire Code and 2019 California Amendments)
2019 California Existing Building Code (CEBC), Part 10, Title 24 CCR
(2018 International Existing Building Code and 2019 California Amendments)
2019 California Green Building Standards Code (CALGreen), Part 11, Title 24 CCR
2019 California Referenced Standards Code, Part 12, Title 24 CCR
Title 19 CCR, Public Safety, State Fire Marshal Regulations
2016 ASME A17.1/CSA B44-13 Safety Code for Elevators and Escalators *(per 2019 CBC Part 2 Ch 35)*
Note: Cal/OSHA Elevator Unit enforces CCR Title 8 and uses the 2004 ASME A17.1 by adoption

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13 - Standard for the Installation of Sprinkler Systems (CA amended).....2016 Edition
NFPA 14 - Standard for the Installation of Standpipe and Hose Systems (CA amended)....2016 Edition
NFPA 17 - Standard for Dry Chemical Extinguishing Systems.....2017 Edition
NFPA 17A - Standard for Wet Chemical Extinguishing Systems.....2017 Edition
NFPA 20 - Standard for the Installation of Stationary Pumps for Fire Protection.....2016 Edition
NFPA 22 - Standard for Water Tanks for Private Fire Protection.....2013 Edition
NFPA 24 - Standard for the Installation of Private Fire Service Mains and Their Appurtenances (CA amended).....2016 Edition
NFPA 72 - National Fire Alarm and Signaling Code (CA amended).....2016 Edition
NFPA 80 - Standard for Fire Doors and Other Opening Protectives.....2016 Edition
NFPA 2001 - Standard on Clean Agent Fire Extinguishing Systems (CA amended).....2015 Edition
UL 300 - Standard for Fire Testing of Fire Extinguishing Systems for Protection of Commercial Cooking Equipment.....2005 (R2010)
UL 464 - Audible Signaling Devices for Fire Alarm and Signaling Systems, Including Accessories.....2003 Edition
UL 521 - Standard for Heat Detectors for Fire Protective Signaling Systems.....1999 Edition
UL 1971 - Standard for Signaling Devices for the Hearing Impaired.....2002 (R2010)
ICC 300 - Standard for Bleachers, Folding and Telescopic Seating, and Grandstands.....2017 Edition

For a complete list of applicable NFPA standards refer to 2019 CBC (SFM) Chapter 35 and California Fire Code Chapter 80.

See California Building Code Chapter 35 for State of California amendments to the NFPA Standards.

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

MEP Component Anchorage Note
All mechanical, plumbing, and electrical components shall be anchored and installed per the details on the DSA approved construction documents. Where no detail is indicated, the following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2019 CBC, Sections 1617A.1.18 through 1617A.1.26 and ASCE 7-10 Chapter 13, 26 and 30.

1. All permanent equipment and components.
2. Temporary or movable equipment that is permanently attached (e.g. hard wired) to the building utility services such as electricity, gas or water. "Permanently attached" shall include all electrical connections except plugs for 110/220 volt receptacles having a flexible cable.
3. Temporary, movable or mobile equipment which heavier than 400 or has a has a center of mass located 4 feet or more above the adjacent floor or roof level that directly support the component is required to be restrained in a manner approved by DSA.

The following mechanical and electrical components shall be positively attached to the structure, but need not demonstrate design compliance with the references noted above. These components shall have flexible connections provided between the component and associated ductwork, piping, and conduit. Flexible connections must allow movement in both transverse and longitudinal directions.

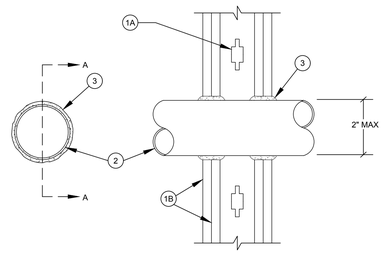
A. Components weighing less than 400 pounds and have a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component.
B. Components weighing less than 20 pounds, or in the case of distributed systems, less than 5 pounds per foot, which are suspended from a roof or floor or hung from a wall.

The anchorage of all mechanical, electrical and plumbing components shall be subject to the approval of the design professional in general responsible charge or structural engineer delegated responsibility and acceptance by DSA. The project inspector will verify that all components and equipment have been anchored in accordance with the above requirements.

Piping, Ductwork, and Electrical Distribution System Bracing Note
Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-16 Section 13.3 as defined in ASCE 7-16 Section 13.6.5, 13.6.6, 13.6.7, 13.6.8, and 2019 CBC, Sections 1617A.1.24, 1617A.1.25 and 1617A.1.26.

The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. When bracing and attachments are based on preapproved installation guide (e.g., OSHPD OPM for 2013 CBC or later), copies of the bracing system installation guide or manual shall be available on the jobsite prior to the start of and during the hanging and bracing of the distribution systems. The Structural Engineer of Record shall verify the adequacy of the structure to support the hanger and brace loads.

Mechanical Piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP), Electrical Distribution Systems (E):
MP☐ MD☐ PP☐ E☑ - Option 1: Detailed on the approved drawings with project specific notes and details.
MP☐ MD☐ PP☐ E☐ - Option 2: Shall comply with the applicable OSHPD Pre-Approval (OPM #) #____.



SECTION A-A
THROUGH - PENETRATION FIRESTOP SYSTEM

System No. W-L-1001
June 15, 2005
F Ratings - 1, 2, 3 and 4 Hr (See Items 2 and 3)
T Ratings - 0, 1, 2, 3 and 4 Hr (See Item 3)
L Ratings At Ambient - less than 1 CFM/sq ft
L Rating At 400 F - less than 1 CFM/sq ft

1. Wall Assembly - The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs - Wall framing may consist of either wood studs (max 2 hr fire rated assemblies) or steel channel studs. Wood studs consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406mm) OC with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 3-5/8 in. (92 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.
   B. Gypsum Board* - Nom 1/2 or 5/8 in. (13 or 16 mm) thick, 4 ft. (122 cm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in. (660 mm).
2. Through Penetrant - One Metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in. (0 mm) (point contact) to max 2 in. (51 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe - Nom 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe - Nom 24 in. (610 mm) diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in. (305 mm) diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.
   C. Conduit - Nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing.
   D. Copper Tubing - Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
   E. Copper Pipe - Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
   F. Through Penetrating Product* - Flexible Metal Piping - The following types of steel flexible metal gas piping may be used:
      1. Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
         OMEGA FLEX INC
      2. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
         TITEFLEX CORP
         A BUNDY CO
      3. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
         WARD MFG INC
3. Fill, Void or Cavity Material* - Caulk or Sealant - Min 5/8, 1-1/4,1-7/8 and 2-1/2in. (16, 32, 48, and 64 mm) thickness of caulk for 1, 2, 3 and 4 hr rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min 1/4 in. (6mm) diam bead of caulk applied to gypsum board/penetrant interface at point contact location on both sides of wall. The hourly F Rating of the fire stop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following tables. The hourly T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

Max Pipe or Conduit Diam In. (mm)	F Rating Hr	T Rating Hr
1 (25)	1 or 2	0+, 1 or 2
1 (25)	3 or 4	3 or 4
4 (102)	1 or 2	0
6 (152)	3 or 4	0
12 (305)	1 or 2	0

+ When copper pipe is used, T Rating is 0 hr.
3M COMPANY - CP 25WB+ caulk or FB-3000 WT sealant,
* Bearing the UL Classification Marking

FIRE ALARM SYSTEM DESCRIPTION
FIRE ALARM SUBMITTAL CONSISTS OF COMPLETE FULLY AUTOMATIC VOICE EVACUATION FIRE ALARM SYSTEM PER DSA POLICY CFC907.2.3.

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LICENSED ARCHITECT HELENA LJUBANY 22214 REN. 8-31-23 STATE OF CALIFORNIA

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ROSEMEAD
SCHOOL DISTRICT
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CHECKED	AJ
DATE	08-18-2022

REGISTERED PROFESSIONAL ENGINEER ANTHONY BORADILLA ESPARZA E21979 Exp. 09/30/23 ELECTRICAL STATE OF CALIFORNIA

SYMBOL LIST AND NOTES

FA1.01

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SYMBOLS	COMPONENT	SILENT KNIGHT CAT. NO.	CSFM NO.
	FIRE ALARM CONTROL PANEL "MFACP" (VOICE EVAC) (E)	6820EVS	7165-0559:0500
	REMOTE POWER SUPPLY (E)	5496	7165-0559:0500
	DACT (E)	DACT	7165-0559:0500
F	PULL STATION (E)	SK-PULL-DA	7150-0559:0161
	REMOTE AMPLIFIER (E)	EVS-50W	7165-0559:0172
(cd)	CEILING MOUNTED SPEAKER/STROBE	SYSTEM SENSOR SPSCRL	7320-1653:0505
WP	VOICE EVAC EXTERIOR SPEAKER (E)	SYSTEM SENSOR SPRK WITH MWBB BACKBOX	7320-1653:0201
(cd)	CEILING MOUNTED STROBE (15cd)	SYSTEM SENSOR SCRL	7125-1653:0504
S	SMOKE DETECTOR, PHOTOELECTRIC	SK-PHOTO-W	7272-0559:0512
H	HEAT DETECTOR	SK-HEAT-HT-W	7270-0559:0511

FIRE ALARM SIGNAL CIRCUIT SCHEDULE

CKT. NO.	WALL QUAN. STROBE 15 cd 0.043	WALL QUAN. STROBE 30 cd 0.063	WALL QUAN. STROBE 75 cd 0.107	CEIL. QUAN. STROBE 15cd 0.041	CEIL. QUAN. STROBE 30cd 0.063	CEIL. QUAN. STROBE 75cd 0.111	TOTAL AMPS	WIRE SIZE	DISTANCE (IN FEET)	TO MFACP	TO POWER EXTENDER	PERCENT VOLTAGE DROP
V9	4	6	2				0.76	#12	295		RPS-C	3.11
V10				(N)2	(N)2	(E)3+(N)1=4	0.65	#12	725		RPS-C	6.52
V11							0.00		SPARE		RPS-C	0.00
V12							0.00		SPARE		RPS-C	0.00

I = TOTAL CURRENT FLOW IN ALARM CONDITION
L = LENGTH OF CIRCUIT FROM SUPPLY TO LAST DEVICE (IN FEET)
21.6 = RESISTIVITY OF COPPER CONDUCTOR PER CIRCULAR MILL

C.M. = CROSS SECTIONAL AREA OF CONDUCTOR IN CIRCULAR MILLS
VOLTAGE DROP = $\frac{(I) \times (L) \times 21.6}{(CM)}$

BATTERY CALCULATIONS PANEL FACP "SILENT KNIGHT" - 6820EVS (EXISTING)

		STANDBY		ALARM	
QTY.	DESCRIPTION	DEVICE	AMPS	DEVICE	AMPS
1	6820EVS	0.19000	0.19000	0.25000	0.25000
6	ADDR. INPUT MOD	0.00055	0.00330	0.00055	0.00330
6	ADDR. MANUAL PULL STATION	0.00055	0.00330	0.00055	0.00330
25	ADDR. RELAY MODULE	0.00055	0.01375	0.00055	0.01375
96	ADDR. HEAT DETECTOR (E)91+(N)5=96	0.00055	0.05280	0.00055	0.05280
89	ADDR. PHOTO SMOKE DET (E)83+(N)6=89	0.00055	0.04895	0.00055	0.04895
56	ADDR. PHOTO-CARBON MONOXIDE SMOKE DET.	0.00055	0.03080	0.00055	0.03080
1	SLC EXPANDER	0.05500	0.05500	0.05500	0.05500
1	EVS-ITN50W	0.02000	0.02000	0.02500	0.02500
1	EVS-VCM	0.04500	0.04500	0.04500	0.04500
1	DACT	0.03500	0.03500	0.20000	0.20000
1	LED ANNUNCIATOR	0.03500	0.03500	0.14500	0.14500
1	EVS-50W	0.02000	0.02000	0.02500	0.02500
TOTAL			0.5529		0.8979
		STANDBY		ALARM	
		24 HOURS	13.2696	15 MIN.	0.2245
		TOTAL	13.49 A.H.		
	BATTERY WITH 25% DERATING INCLUDED:		16.87 A.H.		
	BATTERY:		25 A.H.		
	SPARE:		8.13 A.H.		

VOICE EVACUATION FIRE ALARM SEQUENCE OF OPERATION (EXISTING)

DEVICE / ACTION	MANUAL PULL STATION	AREA SMOKE DETECTORS	AREA SMOKE DETECTOR CARBON MONOXIDE	AREA HEAT DETECTORS	POWER FAILURE	KITCHEN FIRE SUPPRESSION	NOTES
ANNUNCIATE ALARM AT FACP AND REMOTE ANNUNCIATOR	X	X	X	X			
ANNUNCIATE SUPERVISORY CONDITION AT FACP AND REMOTE ANNUNCIATOR	X	X	X	X	X	X	
ANNUNCIATE TROUBLE AT FACP AND REMOTE ANNUNCIATOR	X	X	X	X	X	X	[1]
ACTIVATE AUDIBLE/VISUAL SIGNAL THROUGHTOUT SCHOOL (ALARM)	X	X	X	X		X	
CONTACT CENTRAL STATION (UDACT)	X	X	X	X	X	X	
SHUT DOWN AIR HANDLING EQUIPMENT		X	X	X			[2]

[1] INDICATE TROUBLE ON WIRING FAULT OR DEVICE AS REQUIRED.

[2] SHUT DOWN ONLY AIR HANDLER EQUIPMENT IN THE BUILDING OR AREA WHERE ALARM CONDITION OCCURS.

BUILDING "C"

BATTERY CALCULATIONS - POWER SUPPLY RPS-C (E)

EQUIPMENT MODEL	QUANTITY	SUPERVISORY CURRENT, A UNIT	SUPERVISORY CURRENT, A TOTAL	ALARM CURRENT, A UNIT	ALARM CURRENT, A TOTAL
POWER SUPPLY 5496	1	0.04	0.04	0.16	0.16
15cd ALARM STROBE LIGHT 24 VDC (WALL) (E)4	4	0	0	0.043	0.172
75cd ALARM STROBE LIGHT 24 VDC (WALL) (E)2	2	0	0	0.107	0.214
75cd ALARM STROBE LIGHT 24 VDC (CEILING) (E)3+(N)2=5	5	0	0	0.111	0.555
30cd ALARM STROBE LIGHT 24 VDC (CEILING/WALL) (E)6+(N)2=8	8	0	0	0.063	0.504
15cd ALARM STROBE LIGHT 24 VDC (CEILING) (N)2	2	0	0	0.041	0.082

STANDBY AH	0.96	SUB TOTAL	0.04	SUB TOTAL	1.687
ALARM AH	0.42	HOURS	24.00	HOURS	0.25
TOTAL	1.38	AH STANDBY	0.96	AH ALARM	0.42175

* 7 AH BATTERY PACK PROVIDED (0.25 HRS. = 15 MIN.)

* - REMOVE AND REPLACE BATTERY PACK WITH 7 AMPERE-HOUR (AH).

BATTERY SIZING CALCULATION

REMOTE AMPLIFIER - AMP-C (EXISTING)
EVS-50W

Quantity	Device Type	Model Number	Standby Current	Total Standby Current	Alarm Current	Total Alarm Current
1	EVS-50W		0.06500	0.06500	2.00000	2.00000
(E)5+(N)3=8	Speaker 25V	Speaker - 1/2 Watt Tap	0.00000	0.00000	0.02000	0.16000
5	Speaker 25V	Speaker - 2 Watt Tap	0.00000	0.00000	0.08000	0.40000
2	Speaker 25V	Speaker - 1 Watt Tap	0.00000	0.00000	0.04000	0.08000
2	Speaker 25V	Speaker - 1/4 Watt Tap	0.00000	0.00000	0.01000	0.02000
				Standby Load 0.065		Alarm Load 2.680

Standby Load:	0.065 Amps	Alarm Load:	2.680 Amps
Standby Time:	24 Hours	Alarm Time:	15 Minutes
Total Standby Load:	1.56 Amp*Hours	Total Alarm Load:	0.67 Amp*Hours
Batteries Provided:	(2) BAT-12180	Available Battery:	14.40 A.H.
Battery Size:	18.00 A.H.	Load (ALM + STBY)	2.23 A.H.
De-Rated Size(80%):	14.40 A.H.	Spare Capacity	12.17 A.H.

MONITORING COMPANY: (UUFX)
GS FIRE TECHNOLOGY INC.
TEL. NO. 760-241-3683
LIC. NO. 847681

REMOTE AMPLIFIER (RA) SPEAKER CIRCUIT LOAD CALCULATION (EXISTING)

SPEAKER CIRCUIT DESCRIPTION												MFG. REC. MAXIMUM LOSS IS: -0.5dB		
						APPLIANCES QUANTITIES / TAP VALUES								
AMPLIFIER#	AMPLIFIER LOCATION	CIRCUIT LOCATION	PANEL CIRCUIT NUMBER	WIRE GAUGE (18, 16, 14 12)	CIRCUIT VOLTAGE (25 OR 70 VRMS)	SPEAKER TAPPED AT 0.25 Watts	SPEAKER TAPPED AT 0.5 Watts	SPEAKER TAPPED AT 1 Watt	SPEAKER TAPPED AT 2 Watts	TOTAL CIRCUIT LOAD (WATTS)	ESTIMATED CIRCUIT LENGTH (FEET)	ACTUAL WIRE/LOSS (dB)	MAXIMUM ALLOWABLE CKT. LENGTH (FEET)	TOTAL CIRCUIT RESISTANCE (OHMS)
AMP-C	BUILDING C	BUILDING C	A5	14 AWG	25 Vrms	2	2	2	3	9.50 Watts	260 ft.	-0.18 dB	5,243 ft.	1.4 Ohms
AMP-C	BUILDING C	RELO CLASSROOM	A6	14 AWG	25 Vrms		(E)3+(N)3=6		(E)2	7.00 Watts	750 ft.	-0.37 dB	7,116 ft.	3.9 Ohms

NOTE:
LUMP SUM METHOD WAS USED TO CALCULATE MAXIMUM ALLOWABLE CIRCUIT LENGTH. THIS METHOD ALLOWS FOR A SMALL MARGIN OF SAFETY, TAKING INTO CONSIDERATION THE ACTUAL INSTALLED CIRCUIT ROUTING MAY DIFFER FROM WHAT IS SHOWN ON THE SHOP DRAWINGS. IF THE ACTUAL CIRCUIT LENGTH IS GOING TO EXCEED THE MAXIMUM ALLOWABLE CIRCUIT LENGTH, CONTACT YOUR LOCAL TRI-SIGNAL INTEGRATION BRANCH.

FIRE ALARM SYSTEM DESCRIPTION
FIRE ALARM SUBMITTAL CONSISTS OF COMPLETE FULLY AUTOMATIC VOICE EVACUATION FIRE ALARM SYSTEM PER DSA POLICY CFC907.2.3.

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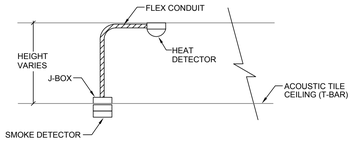
FIRE ALARM SCHEDULES AND CALCULATIONS

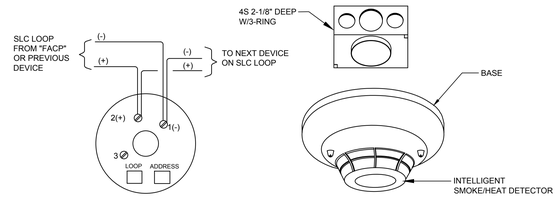
FA1.02



TYPICAL SMOKE DETECTOR & HEAT DETECTOR MOUNTING DETAIL

6 / FA1.03

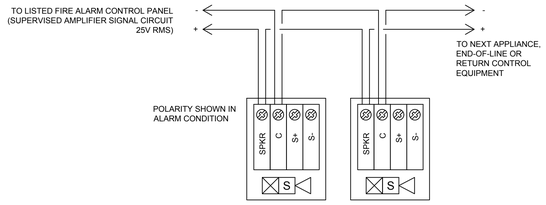
N.T.S.

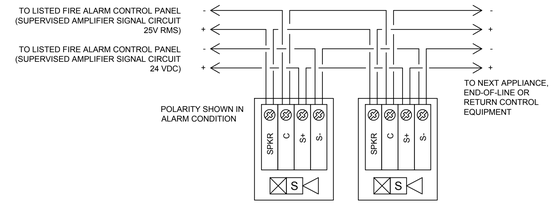


SMOKE AND HEAT DETECTOR

3 / FA1.03

N.T.S.





TYPICAL SPEAKER, SPEAKER/STROBE WIRING DIAGRAM

5 / FA1.03

N.T.S.

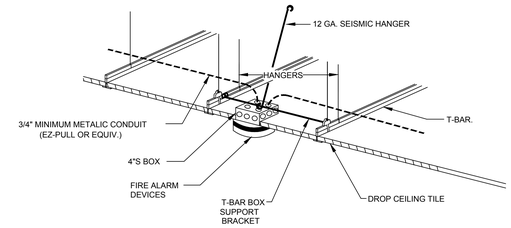
NOTE:
NOTIFICATION APPLIANCE IS RATED PER INDIVIDUAL NAMEPLATE.

VISUAL WIRING DIAGRAM

STROBE LIGHT

4 / FA1.03

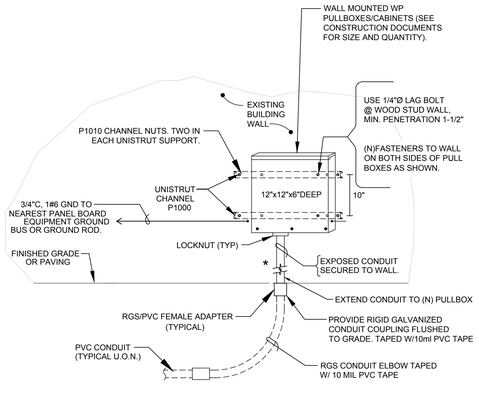
N.T.S.



TYPICAL (SMOKE/HEAT DETECTOR,/ SPEAKER-STROBE CEILING MOUNT INSTALLATION DETAIL

2 / FA1.03

N.T.S.



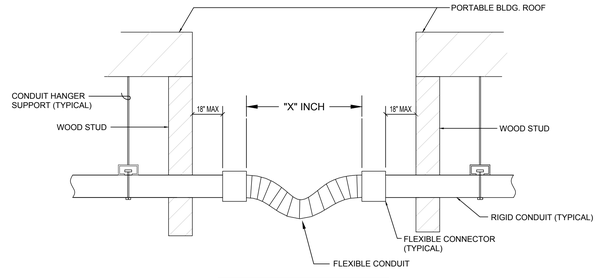
* QUANTITY OF CONDUIT PER SITE PLAN DRAWING.

FIRE ALARM PULLBOX DETAIL

7 / FA1.03

N.T.S.

PAINT CONDUITS AND PULLBOXES TO MATCH PAINT OF SURFACE WHERE THE BOXES ARE INSTALLED.



CONDUIT SIZE	"X" FLEX. LENGTH
3/4" - 1-1/4"	+60" MAX

CONDUIT RUN BETWEEN SEISMIC JOINT OR DIFFERENT STRUCTURE

1 / FA1.03

N.T.S.

FIRE ALARM SYSTEM DESCRIPTION

FIRE ALARM SUBMITTAL CONSISTS OF COMPLETE FULLY AUTOMATIC VOICE EVACUATION FIRE ALARM SYSTEM PER DSA POLICY CFC907.2.3.

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LICENSED ARCHITECT — HELENA LJUBANY — 22214 — REN. 8-31-23 — STATE OF CALIFORNIA

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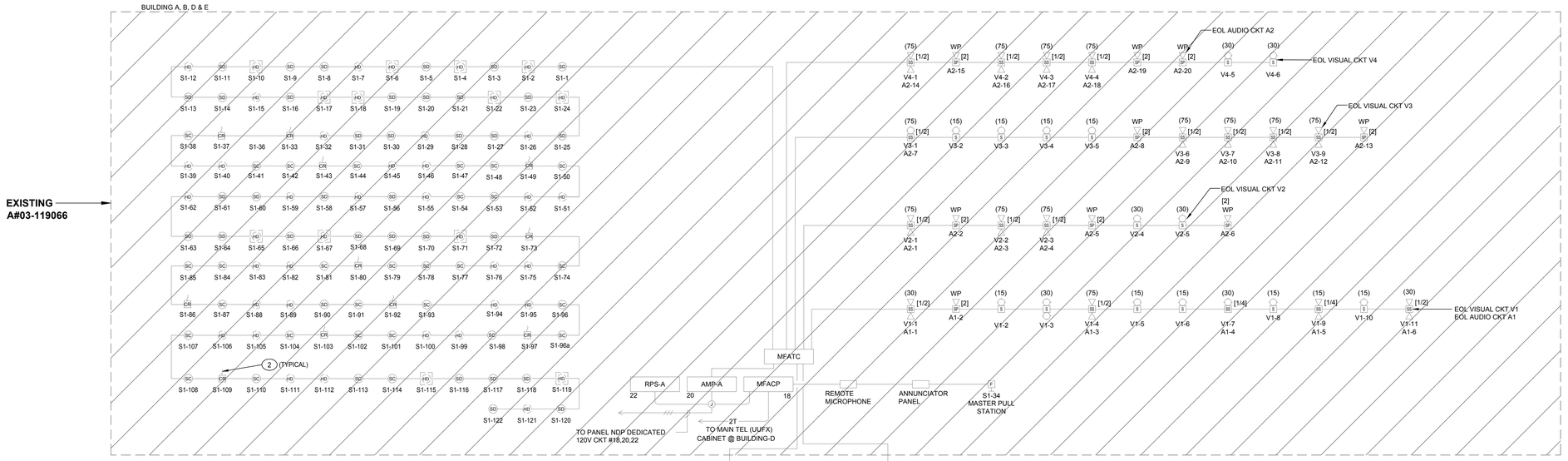
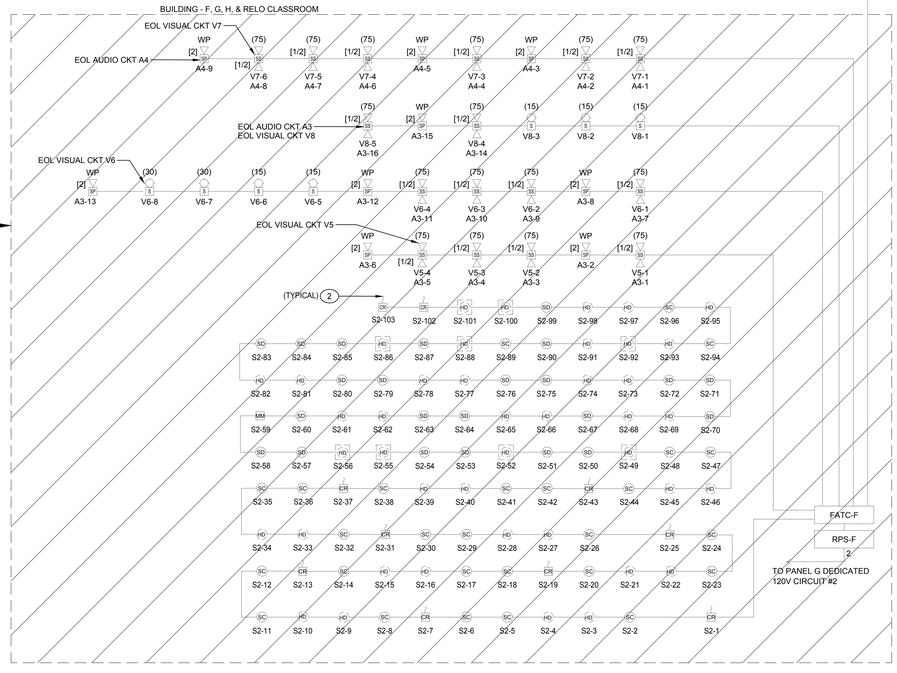
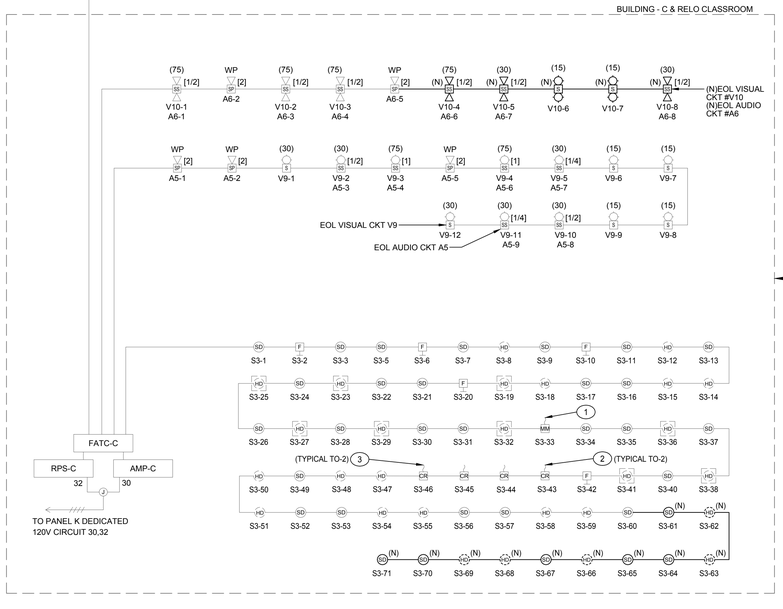
FIRE ALARM DETAILS

FA1.03







FIRE ALARM RISER DIAGRAM

N.T.S.

KEYED NOTES

1. CONNECT WIRES TO EXISTING ANSUL FIRE SUPPRESSION SYSTEM.
2. CONNECT WIRES TO EXISTING AC UNIT ON ROOF FOR AUTOMATIC SHUT-OFF.
3. CONNECT WIRES TO EXISTING SMOKE FIRE DAMPER VENT.

FIRE ALARM SYSTEM DESCRIPTION

FIRE ALARM SUBMITTAL CONSISTS OF COMPLETE FULLY AUTOMATIC VOICE EVACUATION FIRE ALARM SYSTEM PER DSA POLICY CFC907.2.3.

REGISTERED PROFESSIONAL ENGINEER
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FIRE ALARM RISER DIAGRAM

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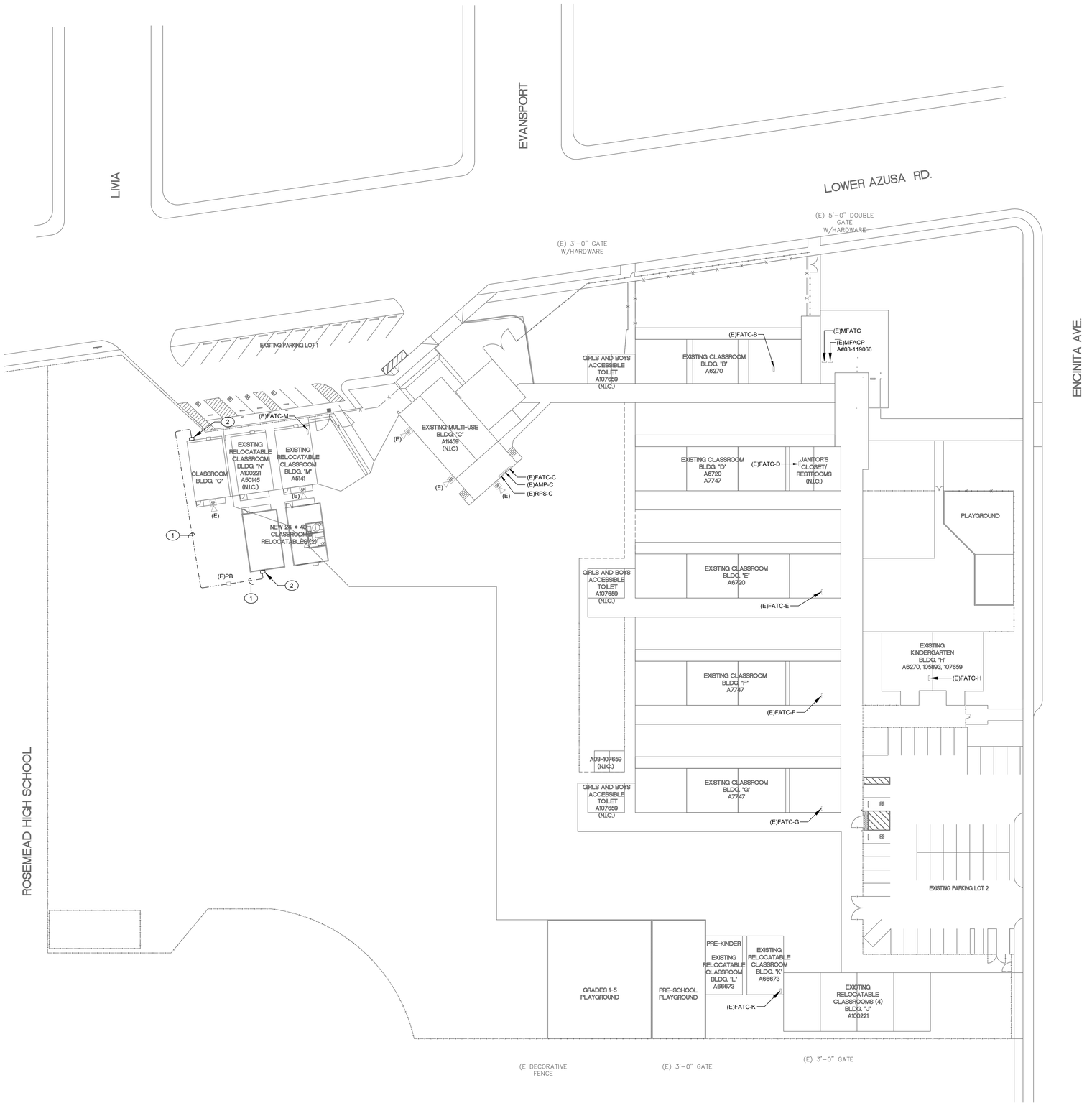
FA1.04



KEYED NOTES

1. (E)2"C, PULL-IN (1)FW, (1)AW, (1)V (FIRE ALARM).
2. WEATHERPROOF FIRE ALARM PULLBOX, MOUNT HIGH ON WALL WITH UNISTRUT CHANNEL SUPPORT. 12"x12"x6" DEEP WITH TAMPERPROOF SCREW. INTERCEPT AND EXTEND EXISTING STUB-UP CONDUIT.

FIRE ALARM SYSTEM DESCRIPTION

FIRE ALARM SUBMITTAL CONSISTS OF COMPLETE FULLY AUTOMATIC VOICE EVACUATION FIRE ALARM SYSTEM PER DSA POLICY CFC907.2.3.

1 ENCINITA ES - FIRE ALARM SITE PLAN
SCALE: 1"=30'-0"

N
PLAN NORTH

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FIRE ALARM SITE PLAN

FA2.01

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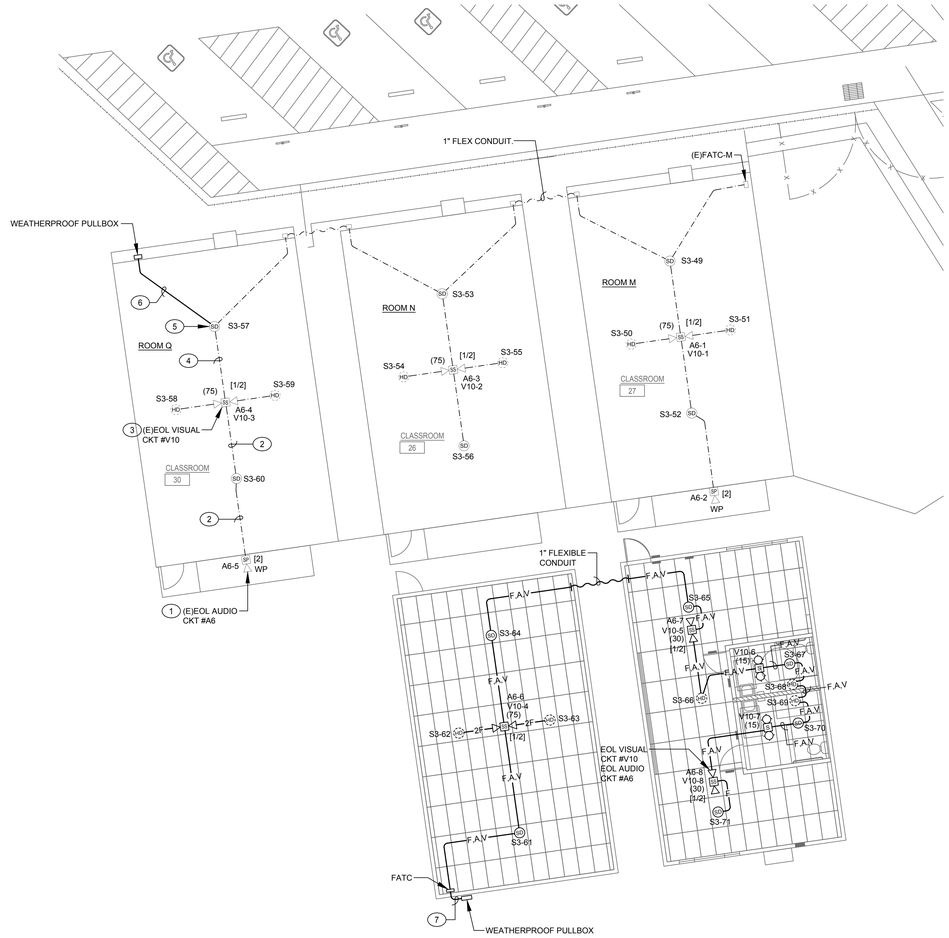


1 CLASSROOM RELOCATABLES - FIRE ALARM PLAN
SCALE: 1/8"=1'-0"

N
PLAN NORTH

KEYED NOTES

1. DISCONNECT AND REMOVE AUDIO "EOL" AND CONNECT NEW "AW" CABLE.
2. (E)3/4"C, PULL-IN NEW "AW" CABLE.
3. DISCONNECT AND REMOVE VISUAL "EOL" AND CONNECT NEW "V" CABLE.
4. (E)3/4"C, PULL-IN NEW "V" CABLE.
5. CONNECT NEW "FW" CABLE.
6. 3/4"C, (1)FW, (1)V, (1)AW (FA).
7. 1"C, (1)FW, (1)V, (1)AW (FA).

FIRE ALARM SYSTEM DESCRIPTION
FIRE ALARM SUBMITTAL CONSISTS OF COMPLETE FULLY AUTOMATIC VOICE EVACUATION FIRE ALARM SYSTEM PER DSA POLICY CFC907.2.3.

PACIFIC ENGINEERS GROUP
Consulting Electrical Engineers
1106 W. Magnolia Blvd., Suite A
Burbank, CA 91506
(818) 859-7081 Y22-357

REGISTERED PROFESSIONAL ENGINEER
ANTHONY BOBADILLA TEJADO
E21979
Exp. 09/30/23
ELECTRICAL
STATE OF CALIFORNIA

LICENSED ARCHITECT
HELENA LJUBANY
22214
REN. 8-31-23
STATE OF CALIFORNIA

ROSEMEAD SCHOOL DISTRICT
ENCINITA ELEMENTARY SCHOOL:
CLASSROOM RELOCATABLES
3720 RIO HONDO AVE. ROSEMEAD, CA 91770

ROSEMEAD
SCHOOL DISTRICT
PARK ROSEMEAD
3907 ROSEMEAD BOULEVARD
ROSEMEAD, CA 91770

JUBANY NAC ARCHITECTURE
837 N. SPRING ST. | LOS ANGELES CA 90012-2223 | P: 323.478.8075 | F: 323.859.3110
WWW.NACARCHITECTURE.COM

NAC NO	161-21043
FILE	
DRAWN	HY
CHECKED	AJ
DATE	08-18-2022

FIRE ALARM PLAN
FA3.01

AURORA

RELOCATABLE CLASSROOM BUILDINGS

24 x 40

STOCKPILE FOR

ONE HUNDRED (100) RELOCATABLE

BUILDINGS

GENERAL NOTES

ALL CONSTRUCTION SHALL COMPLY WITH THE 1994 EDITION OF THE CALIFORNIA BUILDING CODE, CCR TITLE 24, PART 2 (CBC) AND CCR TITLE 24, PART 1, CHAPTER 4, GROUP I; LATEST REVISIONS (MODIFICATIONS TO THE 1994 UNIFORM BUILDING CODE (UBC). UBC STANDARDS AND UBC RECOGNIZED STANDARDS. - NOTE: ALL UBC RECOGNIZED STANDARDS AS APPLICABLE ARE REQUIRED FOR THIS PROJECT). ALSO REFER TO THE DIVISION OF THE STATE ARCHITECT - STRUCTURAL SAFETY SECTION "INTERPRETATIONS OF REGULATIONS". SEE ESPECIALLY 1I23-6. THESE STRUCTURES ARE DESIGNED PER THE MODIFIED REQUIREMENTS TEMPORARY FOUNDATIONS (U.N.O.).

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. THE CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS. ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT AND BE RESOLVED BEFORE PROCEEDING WITH THE WORK.

4. TYPICAL DETAILS SHALL APPLY UNLESS SHOWN OTHERWISE ON THE DRAWINGS.

5. WHERE THESE GENERAL NOTES AND TYPICAL DETAILS ARE IN CONFLICT WITH THE SPECIFICATIONS, THESE GENERAL NOTES AND TYPICAL DETAILS SHALL GOVERN.

6. ALL ELEVATIONS ARE REFERENCE FROM TOP OF FINISH FIRST FLOOR ELEVATION =0'-0"

7. PROVIDE INSPECTIONS, TEST AND REPORTS IN ACCORDANCE WITH THE CCR TITLE 24, PART 2 AND CCR TITLE 24, PART 1, CHAPTER 4, GROUP I.

8. 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 2312A.5.
   B. INSPECTION FOR CONCRETE AND CONCRETE REINFORCEMENT PLACEMENT, PER TITLE 24, OART I, CHAPTER 4, GROUP I AND TITLE 24, PART 2, SECTION 1701A.

9. ALL REQUIRED INSPECTIONS AND TEST ARE THE RESPONSIBILITY OF THE OWNER. ALL INSPECTORS SHALL PROVIDE REPORTS AS REQUIRED BY THE TITLE 24, PART I, CHAPTER 4, GROUP I

10. DIMENSIONS AND ELEVATIONS SHOWN ARE APPROXIMATE AND ARE PROVIDED AS AN AID IN INTERPRETING THE DRAWINGS ONLY. DRAWING SCALES GIVEN ARE APPROXIMATE- DO NOT SCALE PLANS OR DETAILS.

11. WHEN MODULE IS RELOCATED- DO NOT RE-INSTALL NAILS OR SCREWS IN EXISTING HOLES.

12. INSULATION-FIBERGLASS BATTS, R-19 IN ROOF, R-11 IN WALLS AND R-11 IN FLOOR; FLAME SPREAD- 0-25; SMOKE DEVELOPED, FUEL CONTRIBUTED- 0-450. (SEC. 707 1985 CBC)

13. ROOFING- THE ROOFING SHALL COMPLY ACCORDING TO TABLE 15-A, 1985 CBC

14. WHEN BUILDING REQUIRES PLUMBING-18" MIN. REQUIRED FROM BOTTOM OF STEEL TO TOP OF GRADE UNDER BUILDING.

GENERAL REQUIREMENTS

The ARCHITECT / ENGINEER in general responsible charge shall sign and seal all drawings and specifications.

Changes to the approved drawings and specifications shall be made by an addenda or a change order approved by the Department of The State Architect as required by Section 4-338, Part I, Title 24, CCR.

All work shall conform to Title 24, California Code of Requirements (CCR)

A project inspector employed by the district (owner) and approved by the Department of the State Architect, shall provide continuous inspection of the work. The duties of the inspector are defined in Section 4-342, Part I, Title 24, CCR.

An inspector who is specially qualified in mechanical and electrical work will be required for this project.

Grading plans, drainage improvements, road and access requirements and environmental health considerations shall comply with all local ordinances.

FIRE ALARM NOTES

FIRE ALARM SYSTEM REQUIREMENTS

Note: Location of building to comply with chapter 5 - provision for site. Adjacent buildings property lines, exterior walls and openings. Allowable square footage not to exceed CBC 505.3 provision of access to public street by 20 feet unobstructed right of way.

The submittal shall be per D.S.A. policy #45-03

In fire alarm submittal, an audible and manual component shall be within maximum distance on site, placement of building may require these components

Fire alarm system shall comply with 1994 UBC w/ 1997 amendments sec. 305 & NFPA 72 1993 edition and part 3. Article 760 California Code of Regulations.

Specify type of system which is being installed in accordance with the above provisions.

Provide floor plan(s) showing locations of all components and a riser diagram Plans shall provided by architect or responsible person in charge. Not by portable building manufacturer.

Provide State Fire Marshall listing numbers and manufacturers numbers for every fire alarm system component.

Provide battery calculations.

Emergency warning devices are required for the hearing impaired per Sec. 3504.1 (a)

Connect fire alarm into existing fire alarm system. All wiring shall be part of site provision.

Audible shall comply with California and Educational Code for audible signal per T-24 part 9 California Fire Code.

Portable building manufactuer shall provide junction box and empty conduit with pull string for fire alarm. School district will provide their own fire alarm system under their DSA project.

NFPA 13- Automatic Sprinkler Systems,	1996 Edition
NFPA 14- Standpipes Systems,	1993 Edition
NFPA 17A- Wet Chemical Systems,	1990 Edition
NFPA 24- Private Fire Mains,	1992 Edition
(California Amended) NFPA 72- National Fire Alarm Codes,	1996 Edition
NFPA 253- Critical Radiant Flux of Floor Covering Systems,	1989 Edition
NFPA 2001- Clean Agent Fire Extinguishing Systems,	1994 Edition

APPLICABLE CODES

1998 Building Standards Administrative Code, Part 1, Title 24 C.C.R.

1998 California Building Code (CBC), Part 2, Title 24 C.C.R.; (1997 Uniform Building Code volumns 1-3 and 1998 California Amendments)

1998 California Electrical Code (CEC), Part 3, Title 24 C.C.R. (1996 National Electrical Code and 1998 California Amenaments)

1998 California Mechanical Code (CMC), Part 4, Title 24 C.C.R.; (1994 Uniform Mechanical Code and 1998 California Amendments)

1998 California Plumbing Code (CPC), Part 5, Title 24 C.C.R.; (1994 Uniform Plumbing Code and 1998 California Amendments)

1998 California Fire Code (CFC), Part 9, Title 24 C.C.R.; (1994 Uniform Fire Code and 1998 California Aendments)

1998 California Referenced Standards Code, Part 12, Title 24 C.C.R.

1990 Title 19, CCR, Public Safety, state Fire Marshall Regulations

BLDG. DATA (50 LBS STANDARD)

OCCUPANCY	E-1
TYPE OF CONSTRUCTION	V - NON RATED
WIND LOAD	70 m.p.h. EXPOSURE 'C' AS SHOWN
~~WIND LOAD~~	~~80 m.p.h. EXPOSURE 'C' AS NOTED~~
FLOOR LIVE LOAD	50 lbs/sq. ft.
ROOF LIVE LOAD	20 lbs/sq. ft.
SYSTEM:	RIGID FRAME
MODULES:	TWO 12'x 40'
~~MODULES:~~	~~THREE 12'x 40'~~
~~MODULES:~~	~~FOUR 12'x 40'~~
FOUNDATION:	WOOD
~~FOUNDATION:~~	~~CONCRETE~~
~~FOUNDATION:~~	~~FLUSH W/ GRADE CONCRETE~~
BUILDING DATA	960 sq. ft. (24x40)
~~BUILDING DATA~~	~~1440 sq. ft. (36x40)~~
~~BUILDING DATA~~	~~1920 sq. ft. (48x40)~~

BLDG. DATA (50 PSF+20 LBS PARTITIONS OPTION)

OCCUPANCY	E-1
TYPE OF CONSTRUCTION	V - NON RATED
WIND LOAD	70 m.p.h. EXPOSURE 'C' AS SHOWN
WIND LOAD	80 m.p.h. EXPOSURE 'C' AS NOTED
FLOOR LIVE LOAD	50 lbs/sq. ft. + 20 LBS. PARTITIONS
ROOF LIVE LOAD	20 lbs/sq. ft.
SYSTEM:	RIGID FRAME
MODULES:	TWO 12'x 40'
MODULES:	THREE 12'x 40'
MODULES:	FOUR 12'x 40'
FOUNDATION:	WOOD
FOUNDATION:	CONCRETE
FOUNDATION:	FLUSH W/ GRADE CONCRETE
BUILDING DATA	960 sq. ft. (24x40)
BUILDING DATA	1440 sq. ft. (36x40)
BUILDING DATA	1920 sq. ft. (48x40)

BLDG. DATA (125 PSF OPTION)

OCCUPANCY	E-1
TYPE OF CONSTRUCTION	V - NON RATED
WIND LOAD	70 m.p.h. EXPOSURE 'C' AS SHOWN
WIND LOAD	80 m.p.h. EXPOSURE 'C' AS NOTED
FLOOR LIVE LOAD	125 lbs/sq. ft.
ROOF LIVE LOAD	20 lbs/sq. ft.
SYSTEM:	RIGID FRAME
MODULES:	TWO 12'x 40'
MODULES:	THREE 12'x 40'
MODULES:	FOUR 12'x 40'
FOUNDATION:	WOOD
FOUNDATION:	CONCRETE
FOUNDATION:	FLUSH W/ GRADE CONCRETE
BUILDING DATA	960 sq. ft. (24x40)
BUILDING DATA	1440 sq. ft. (36x40)
BUILDING DATA	1920 sq. ft. (48x40)

SYMBOLS LIST

KEYNOTES

DOOR No.

WINDOW TYPE

DETAIL #
SHEET #

ELEVATION #
SHEET #

SHEET INDEX

CBC 1998

PC

ARCHITECTURAL

- *0 COVER SHEET, SHEET INDEX, & BUILDING DATA
- *A1.0 FLOOR PLANS (24x40)
- *A1.1 FLOOR PLAN W/ OPTIONAL RESTROOM (24x40)
- *A2.0 EXTERIOR ELEVATIONS - MONO AND GABLE ROOF (24x40)
- *A2.1 EXTERIOR ELEVATIONS - OPTIONAL RESTROOM (24x40)
- ~~A2.3 EXTERIOR ELEVATIONS - MONO AND GABLE ROOF (24x40) - STUCCO EXTERIOR~~
- ~~A2.4 EXTERIOR ELEVATIONS - MONO AND GABLE ROOF (36x40) - STUCCO EXTERIOR~~
- ~~A2.5 EXTERIOR ELEVATIONS - MONO AND GABLE ROOF (48x40) - STUCCO EXTERIOR~~
- *A3.0 INTERIOR ELEVATIONS (24x40)
- *A3.1 INTERIOR ELEVATIONS - OPTIONAL RESTROOM (24x40)
- *A4.0 GABLE ROOF PLANS (24x40, 36x40 & 48x40)
- ~~A4.1 MONO SLOPE ROOF PLANS (24x40, 36x40 & 48x40)~~
- *A5.0 REFLECTED CEILING PLAN AND DETAILS (24x40)
- *A5.1 REFLECTED CEILING PLAN W/ OPT RESTROOM + DETAILS (24x40)
- ~~A5.2 REFLECTED CEILING PLAN AND DETAILS (48x40)~~

STRUCTURAL

- *F-1 FOUNDATION PLANS (WOOD 50 LBS. LIVE LOAD)
- ~~F-2 FOUNDATION PLANS (WOOD 50 LB. L. L. + 20 LBS. PARTITIONS)~~
- ~~F-3 FOUNDATION PLANS (WOOD 125 LBS. LIVE LOAD)~~
- *F-4 FOUNDATION PLAN DETAILS (WOOD)
- ~~F-5 FOUNDATION PLANS (CONC. 50 LB. L. L. ABOVE GRADE)~~
- ~~F-6 FOUNDATION PLANS (CONC. 50 LB. L. L. + 20 LBS. PARTITIONS, ABOVE GRADE)~~
- ~~F-7 FOUNDATION PLANS (CONC. 125 LB. L. L. ABOVE GRADE)~~
- ~~F-8 FOUNDATION PLAN DETAILS (CONC. ABOVE GRADE)~~
- ~~F-9 FOUNDATION PLANS (CONC. 50 LB. L. L. FLUSH WITH GRADE)~~
- ~~F-10 FOUNDATION PLANS (CONC. 50 LB. L. L. + 20 LBS. PARTITIONS, FLUSH WITH GRADE)~~
- ~~F-11 FOUNDATION PLANS (CONC. 125 LB. L. L. FLUSH WITH GRADE)~~
- ~~F-12 FOUNDATION PLANS (CONC. FLUSH WITH GRADE)~~
- *S1.0 BUILDING SECTIONS AND WALL FRAMING - 24x40 GABLE ROOF (WOOD STUDS)
- *S1.1 BUILDING SECTIONS & WALL FRAMING W/OPT RESTROOM - 24x40 GABLE ROOF (WOOD STUDS)
- ~~S1.2 BUILDING SECTIONS AND WALL FRAMING - 48x40 GABLE ROOF (WOOD STUDS)~~
- ~~S1.3 BUILDING SECTIONS AND WALL FRAMING - 24x40 MONO SLOPE ROOF (WOOD STUDS)~~
- ~~S1.4 BUILDING SECTIONS AND WALL FRAMING - 36x40 MONO SLOPE ROOF (WOOD STUDS)~~
- ~~S1.5 BUILDING SECTIONS AND WALL FRAMING - 48x40 MONO SLOPE ROOF (WOOD STUDS)~~
- ~~S2.0 BUILDING SECTIONS AND WALL FRAMING - 24x40 GABLE ROOF (STEEL STUDS)~~
- ~~S2.1 BUILDING SECTIONS AND WALL FRAMING - 36x40 GABLE ROOF (STEEL STUDS)~~
- ~~S2.2 BUILDING SECTIONS AND WALL FRAMING - 48x40 GABLE ROOF (STEEL STUDS)~~
- ~~S2.3 BUILDING SECTIONS AND WALL FRAMING - 24x40 MONO SLOPE ROOF (STEEL STUDS)~~
- ~~S2.4 BUILDING SECTIONS AND WALL FRAMING - 36x40 MONO SLOPE ROOF (STEEL STUDS)~~
- ~~S2.5 BUILDING SECTIONS AND WALL FRAMING - 48x40 MONO SLOPE ROOF (STEEL STUDS)~~
- *S3.0 TYPICAL DETAILS (WOOD STUDS)
- ~~S3.1 TYPICAL DETAILS (STEEL STUDS)~~
- ~~S3.2 TYPICAL DETAILS (1 HR. WOOD STUDS)~~
- ~~S3.3 TYPICAL DETAILS (1 HR. STEEL STUDS)~~
- ~~S3.4 TYPICAL DETAILS (WOOD STUDS, STUCCO FINISH)~~
- ~~S3.5 TYPICAL DETAILS (STEEL STUDS, STUCCO FINISH)~~
- ~~S3.6 TYPICAL DETAILS (WOOD STUDS, STO FINISH)~~
- *S4.0 FLOOR FRAMING, ROOF FRAMING & STRUCTURAL ELEVATIONS (GABLE ROOF, 70 MPH)
- ~~S4.1 FLOOR FRAMING, ROOF FRAMING & STRUCTURAL ELEVATIONS (MONO SLOPE ROOF, 70 MPH)~~
- ~~S4.2 FLOOR FRAMING, ROOF FRAMING & STRUCTURAL ELEVATIONS (GABLE ROOF, 80 MPH)~~
- ~~S4.3 FLOOR FRAMING, ROOF FRAMING & STRUCTURAL ELEVATIONS (MONO SLOPE ROOF, 80 MPH)~~
- ~~S4.4 CONCRETE FLOOR FRAMING AND DETAILS~~
- *S5.0 STEEL TRUSS SECTION AND DETAILS (GABLE ROOF)
- ~~S5.1 STEEL TRUSS SECTION AND DETAILS (MONO SLOPE ROOF)~~
- ~~S6.0 STRUCTURAL DETAILS - BUILT UP ROOFING (WOOD STUDS)~~
- *S6.1 STRUCTURAL DETAILS - 22 GA. ROOFING (WOOD STUDS)
- ~~S6.2 STRUCTURAL DETAILS - 26 GA ROOFING (WOOD STUDS)~~
- ~~S6.3 STRUCTURAL DETAILS - BUILT UP ROOFING (STEEL STUDS)~~
- ~~S6.4 STRUCTURAL DETAILS - 22 GA. ROOFING (STEEL STUDS)~~
- ~~S6.5 STRUCTURAL DETAILS - 26 GA. ROOFING (STEEL STUDS)~~
- ~~S6.6 STRUCTURAL DETAILS - BUILT UP ROOFING (1 HR. WOOD STUDS)~~
- ~~S6.7 STRUCTURAL DETAILS - 22 GA. ROOFING (1 HR. WOOD STUDS)~~
- *S6.8 STRUCTURAL DETAILS - 26 GA. ROOFING (1 HR. WOOD STUDS)
- ~~S6.9 STRUCTURAL DETAILS - BUILT UP ROOFING (1 HR. STEEL STUDS)~~
- ~~S7.0 STRUCTURAL DETAILS - 22 GA. ROOFING (1 HR. STEEL STUDS)~~
- ~~S7.1 STRUCTURAL DETAILS - 26 GA. ROOFING (1 HR. STEEL STUDS)~~
- ~~S7.2 STRUCTURAL DETAILS - BUILT UP ROOFING (STUCCO FINISH, WOOD STUDS)~~
- ~~S7.3 STRUCTURAL DETAILS - 22 GA. ROOFING (STUCCO FINISH, WOOD STUDS)~~
- ~~S7.4 STRUCTURAL DETAILS - 26 GA. ROOFING (STUCCO FINISH, WOOD STUDS)~~
- ~~S7.5 STRUCTURAL DETAILS - BUILT UP ROOFING (STUCCO FINISH, STEEL STUDS)~~
- ~~S7.6 STRUCTURAL DETAILS - 22 GA. ROOFING (STUCCO FINISH, STEEL STUDS)~~
- ~~S7.7 STRUCTURAL DETAILS - 26 GA. ROOFING (STUCCO FINISH, STEEL STUDS)~~
- ~~S7.8 STRUCTURAL DETAILS - BUILT UP ROOFING (STO FINISH, WOOD STUDS)~~
- ~~S8.0 PARAPET FRAMING, SOFFIT FRAMING AND DETAILS~~
- ~~S8.1 PARAPET FRAMING, SOFFIT FRAMING AND DETAILS~~
- ~~S9.0 MECHANICAL ROOF SCREENS LAYOUT AND DETAILS~~

ELECT.

- *E1.0 ELECTRICAL POWER & LIGHTING PLAN AND PANEL SCHEDULE (24x40)
- *E1.1 ELECTRICAL POWER & LIGHTING PLAN, PANEL SCHEDULE W/OPT. RESTROOM (24x40)
- ~~E1.2 ELECTRICAL POWER & LIGHTING PLAN AND PANEL SCHEDULE (48x40)~~

SPEC'S & FINISH SCHEDULE

- *9 SPECIFICATIONS AND HVAC INFORMATION
- *9.1 EXTERIOR, INTERIOR FINISH SCHEDULES AND DOOR HARDWARE

RAMPS

- ~~R1.0 RAMP PLAN AND DETAILS (STEEL DECKING)~~
- *R1.0b RAMP PLAN AND DETAILS (WOOD DECKING)
- ~~R1.0 RAMP PLAN AND DETAILS (METAL DECKING)~~
- ~~R1.1 RAMP PLAN AND DETAILS (WOOD DECKING)~~
- ~~R2.0 RAMP PLAN (METAL DECKING)~~
- ~~R2.1 RAMP PLAN DETAILS (METAL DECKING)~~
- ~~R3.0 RAMP PLAN (WOOD DECKING)~~
- ~~R3.1 RAMP PLAN DETAILS (WOOD DECKING)~~
- ~~R4.0 RAMP PLAN AND DETAILS (CONCRETE)~~

MECH. PLANS

- *M1.1 MECHANICAL PLANS (24x40)
- *M1.1 MECHANICAL PLANS W/OPT RR.
- *P1.0 PLUMBING PLAN.
- ~~M-7 MECHANICAL PLAN - ROOF MTD. (48x40)~~
- ~~M-8 MECHANICAL PLAN - ROOF MTD. (48x40)~~

D.S.A.

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION & SERVICES
04 - 101055
40 FT. CLASS 6
DATE NOV 16 2000
APP: D. Peterson

D.S.A.

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION & SERVICES
04 - 102764
40 FT. CLASS 6
DATE NOV 16 2000
APP: D. Peterson

STRUCT. ENGINEER

REGISTERED PROFESSIONAL ENGINEER
JAMES T. BRUNSON
No. 3824
STRUCTURAL
STATE OF CALIFORNIA

LICENSE EXPIRES 6-30-2000

ARCHITECT

CHANGE ORDER

CHECKED BY

AURORA MODULAR INDUSTRIES
16333 Kramaria Ave., Riverside, CA. 92504
Phone (909) 789-7186
Fax (909) 788-0233

RELOCATABLE BUILDING FOR:
STOCKPILE
WILLIAMS / SCOTSMAN

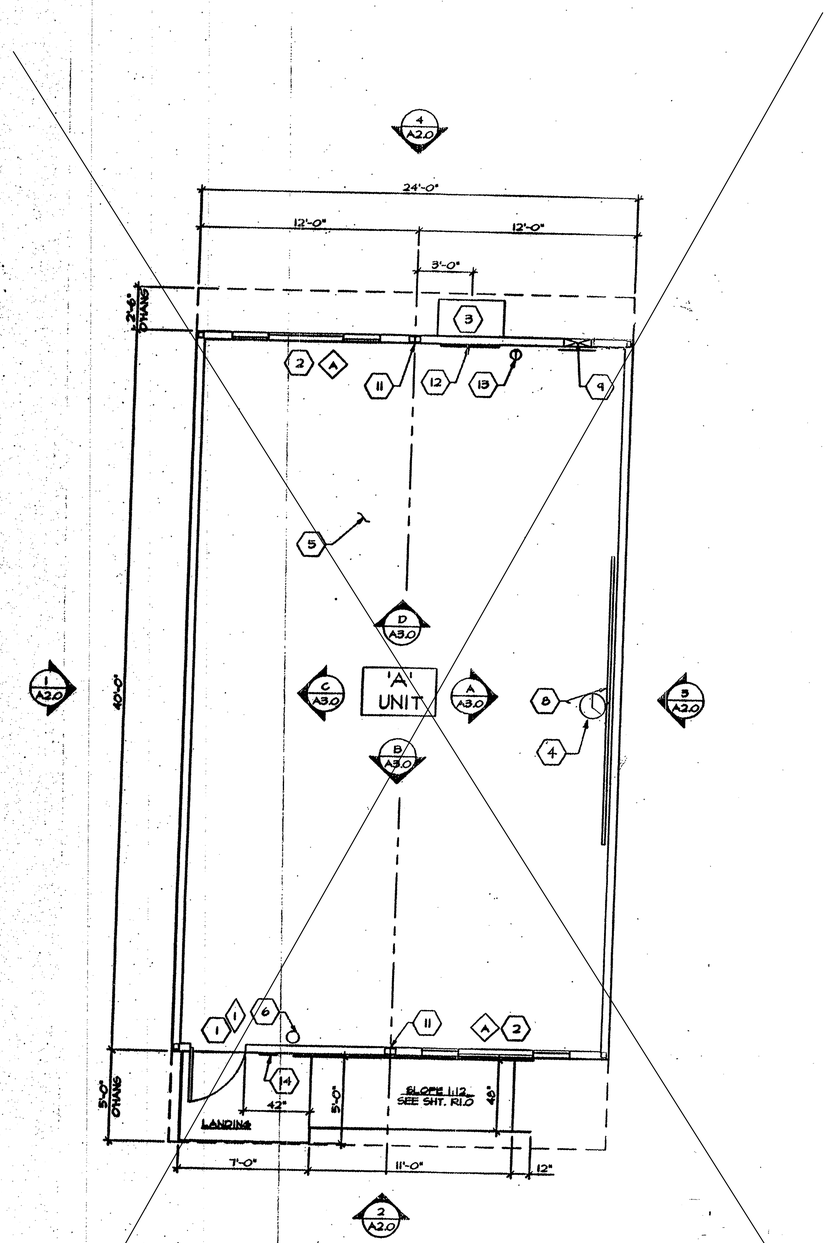
COVER SHEET, SHEET INDEX, BUILDING DATA

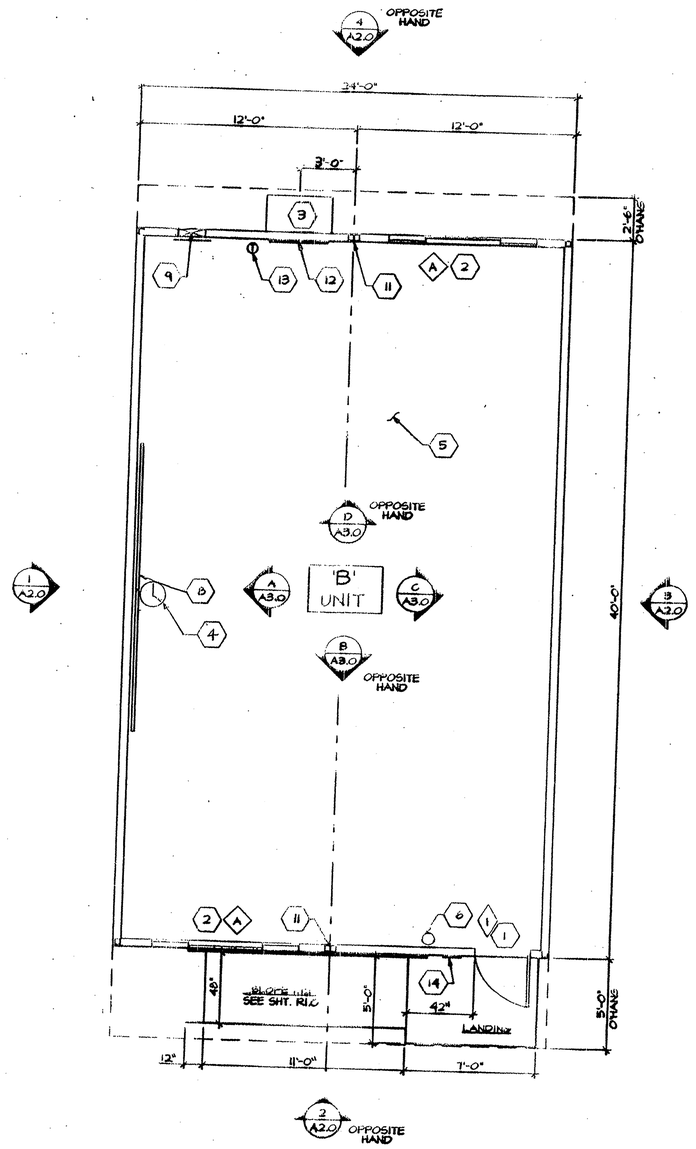
BY AH DATE 10-11-00

SHEET 0

4504 CAD FILE NO. RC253-0.DWG

RELO-0





KEYNOTES

1. EXTERIOR DOOR- SEE SHEET 9.1
2. ALUMINUM SLIDER WINDOW- SEE SHEET 9.1
3. WALL MOUNTED ELECTRIC HEAT PUMP, SEE SHEET
4. WALL CLOCK, SEE SHEET E1.0
5. FINISH FLOORING- SEE SHEET 9.1
6. FIRE EXTINGUISHER- 5 lb DRY CHEMICAL WITH 2A-10B-C UL RATING. F.E. HANDLE @ 48" A.F.F.
7. NOT USED
8. MARKERBOARD - SEE SHEET 9.1
9. ELECTRICAL PANEL 'A'- SEE SHEET E1.0
10. 26 GA. GUTTER AND DOWNSPOUT.
11. VINYL WRAPPED CLOSE-OFF BATT.
12. HVAC RETURN.
13. THERMOSTAT, SEE SHEET E1.0
14. ACCESS SIGN (SEE DETAIL 16 SHEET S3.0)

NOTE:
RAMPS NEEDED ACCORDINGLY TO SITE CONDITIONS. STANDARD RAMP DESIGN SHOWN FOR REFERENCE ONLY- SEE RAMP SHEETS FOR ALTERNATE RAMP DESIGN.

FLOOR PLANS (24x40)
SCALE: 1/4" = 1'-0"

CBC 1998
PC

D.S.A.
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
04 - 101055
AC. DATE JUN 29 1999
D.S.A.
NOV 16 20

STRUCT. ENGINEER
REGISTERED PROFESSIONAL ENGINEER
KEITH S. SWANSON
No. 38838
STRUCTURAL
STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-2000

ARCHITECT

CHANGE ORDER

CHECKED BY

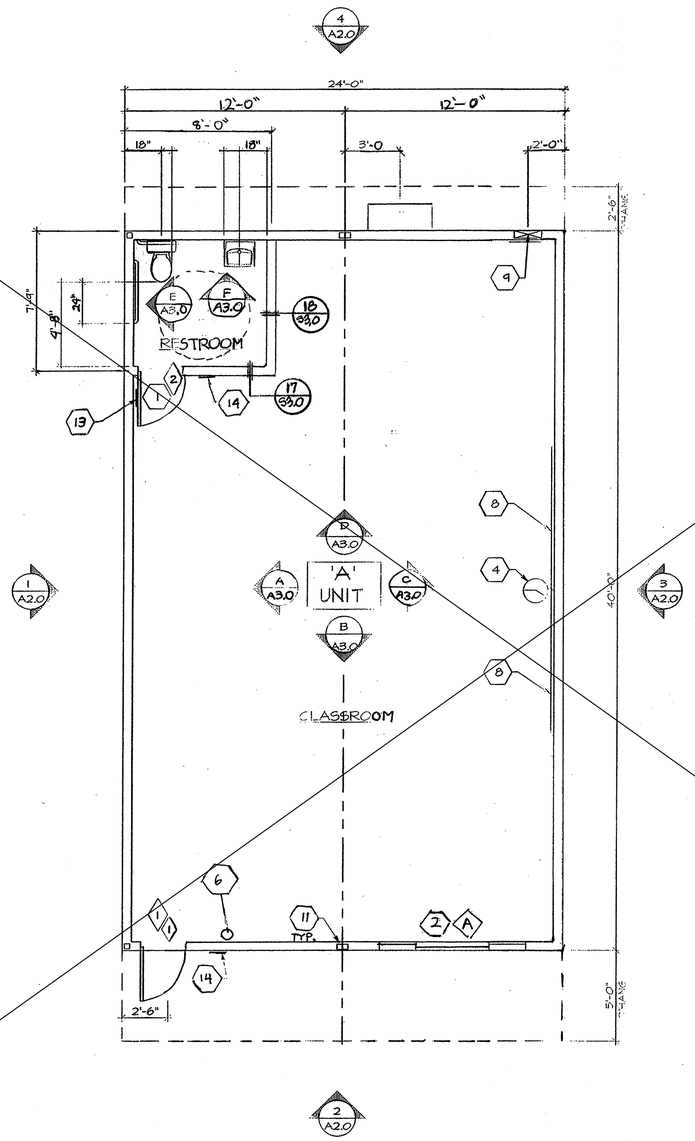
AURORA MODULAR INDUSTRIES
16633 Kramoria Ave., Riverside, CA. 92504
Phone (909) 789-7186
Fax (909) 788-0283

RELOCATABLE BUILDING FOR:
STOCKPILE
WILLIAMS / SCOTSMAN

FLOOR PLAN
(24x40)

BY AH DATE 10-11-00
SHEET
A1.0
4504 CAD FILE NO.

RELO-A1.0



FLOOR PLANS (24x40)

SCALE: 1/4

KEYNOTES

1 EXT./INT. DOOR- SEE SHEET 9.1

2 ALUMINUM SLIDER WINDOW- SEE SHEET 9.1

3 WALL MOUNTED ELECTRIC HEAT PUMP, SEE SHEET 9.0

4 WALL CLOCK, SEE SHEET E1.0

5 FINISH FLOORING- SEE SHEET 9.1

6 FIRE EXTINGUISHER- 5 lb DRY CHEMICAL WITH 2A-10B-C UL RATING. F.E. HANDLE @ 48" A.F.F.

7 NOT USED.

8 MARKERBOARD - SEE SHEET 9.1

9 ELECTRICAL PANEL 'A'- SEE SHEET E1.0

10 NOT USED

11 VINYL WRAPPED CLOSE-OFF BATT.

12 NOT USED

13. RESTROOM DOOR SIGN. SEE DETAIL SHEET P-1

14 ACCESS SIGN (SEE DETAIL 16 SHEET 53.0)

15 NOT USED.

16 NOT USED.

NOTE:
RAMPS NEEDED ACCORDINGLY TO SITE CONDITIONS. STANDARD RAMP DESIGN SHOWN FOR REFERENCE ONLY- SEE RAMP SHEETS FOR ALTERNATE RAMP DESIGN.

D.S.A.

D.S.A.

NOV 16 2000

STRUCT. ENGINEER

No. 3602

LICENSE EXPIRES 6-30-2004

ARCHITECT

CHANGE ORDER

CHECKED BY

16833 Kramer Ave., Riverside, CA. 92504
Phone (909) 789-7196
Fax (909) 789-0253

AURORA MODULAR INDUSTRIES

RELOCATABLE CLASSROOM BUILDINGS FOR:

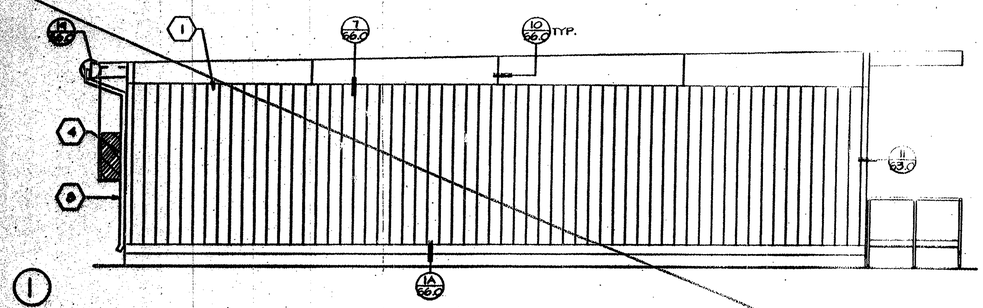
WILLIAMS/SCOTSMAN
STOCKPILE

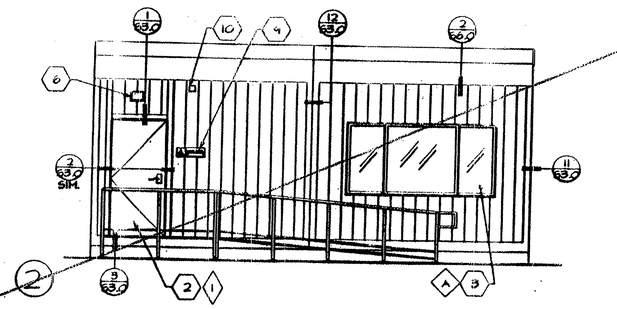
FLOOR PLAN
(24x40)
W/ RESTROOM

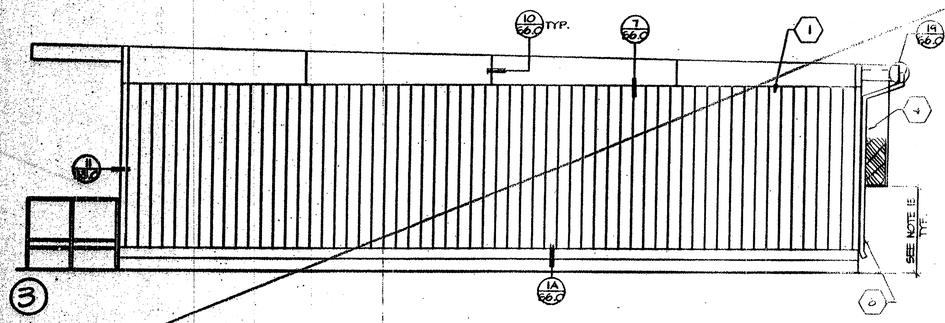
BY M.C. DATE 11/12/2000

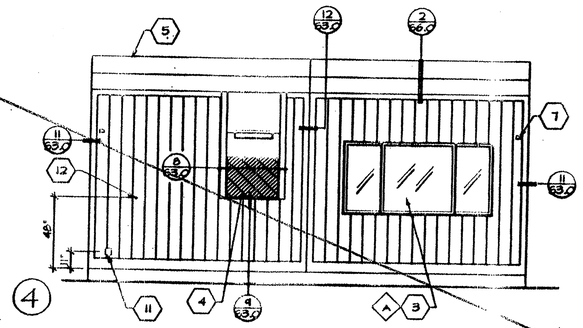
SHEET A1.1

C.A.D. FILE NO. 4504



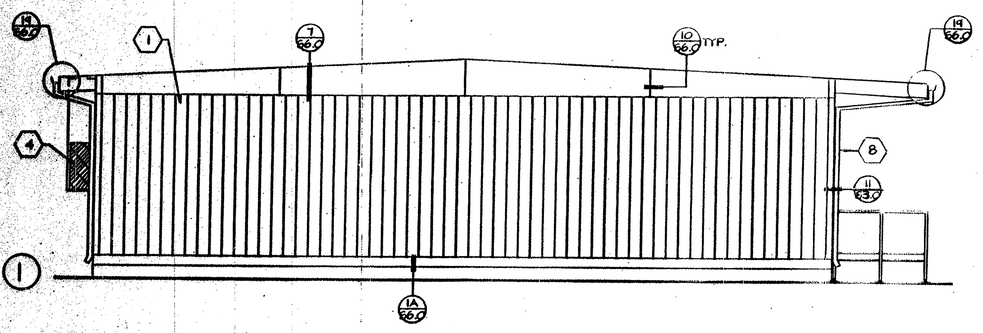


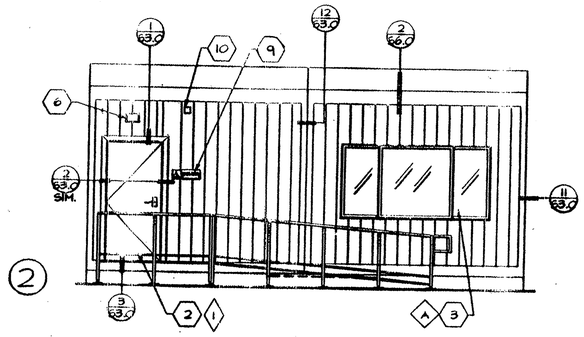


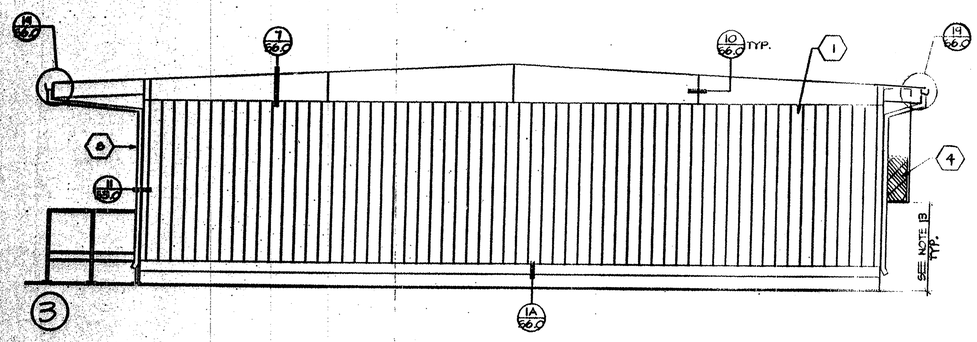


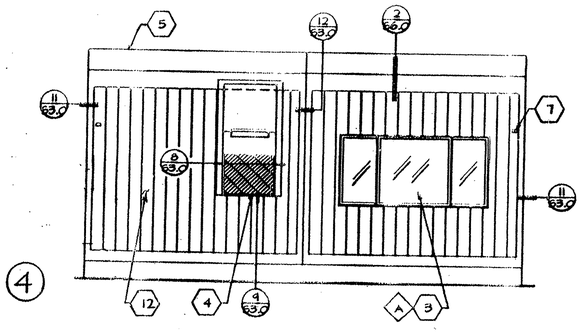
EXTERIOR ELEVATIONS (MONO SLOPE) 24x40

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









EXTERIOR ELEVATIONS (GABLE) 24x40

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

KEYNOTES

1. TYPICAL EXTERIOR FINISH- SEE SHEET 9.1
2. EXTERIOR DOOR- SEE SHEET 59.1
3. ALUMINUM SLIDER WINDOW- SEE SHEET 9.1
4. WALL MOUNTED ELECTRIC HEAT PUMP- SEE SHEET 59.0
5. ROOFING- SHEET 9.1
6. EXTERIOR LIGHT MOUNTED ABOVE DOOR- SEE SHEET E1.0
7. METAL TAG ON ALL MODULES MECHANICALLY ATTACHED TO EXTERIOR OF REAR FRAME, @ 8'-0" A.F.F. SHOWING DSA APP. #, MANUFACTURERS NAME AND UNIT SERIAL NUMBER.
8. 26 ga. DOWNSPOUT.
9. ACCESS SIGN (SEE DETAIL 14 SHEET 53.0) (NOT BY PORTABLE MANUFACTURER)
10. FIRE ALARM HORN OR BELL LOCATED @ 8'-6" ON THE EXTERIOR. CONDUIT TO BE STUBBED INTO ATTIC SPACE ONLY.
11. JUNCTION BOX FOR FIRE ALARM- SEE SHEET E1.0
12. ELECTRICAL POINT OF CONNECTION
13. IF HVAC UNIT IS LOCATED IN ANY PATH OF TRAVEL, PROVIDE PROTECTION FROM OVERHEAD HAZARD IF DIMENSION IS GREATER THAN 27" A.F.S.
14. NOT USED.

NOTE:
RAMPS NEEDED ACCORDINGLY TO SITE CONDITIONS. STANDARD RAMP DESIGN SHOWN FOR REFERENCE ONLY- SEE RAMP SHEETS FOR ALTERNATE RAMP DESIGN.

CBC 1998

PC

D.S.A.

IDENTIFICATION STAMP DSA OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES

04 - 109055

ACCESS COMPLIANCE

DATE JAN 29 1999

D.S.A.

DSA

NOV 16 2000

STRUCT. ENGINEER

REGISTERED PROFESSIONAL ENGINEER JAMES F. BUNDY III No. 38603 CIVIL STRUCTURAL STATE OF CALIFORNIA

LICENSE EXPIRES 6-30-2000

ARCHITECT

CHANGE ORDER

CHECKED BY

$

AURORA MODULAR INDUSTRIES
16633 Kramer Ave., Riverside, CA. 92504
Phone (909) 783-7186
Fax (909) 783-0253

RELOCATABLE BUILDING FOR:
STOCKPILE
WILLIAMS / SCOTSMAN

EXTERIOR ELEVATIONS (24x40)

BY AH DATE 10-11-00

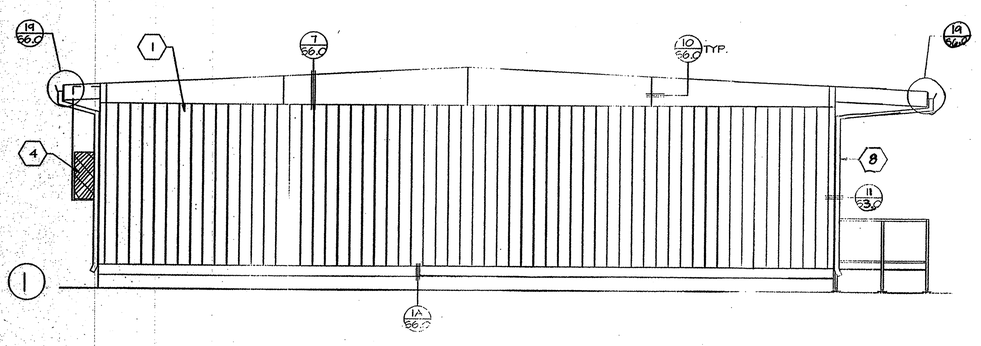
SHEET A2.0

4504 C

CAD FILE NO.

Check prints before fabrication

RELO-A2.0



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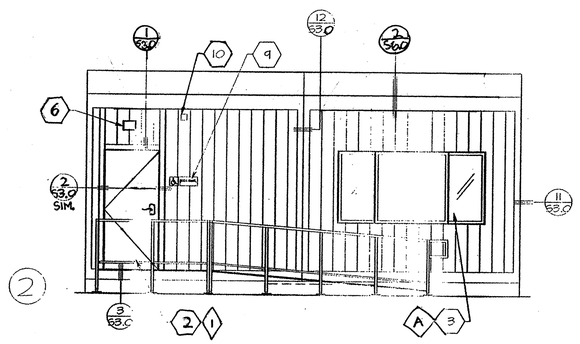

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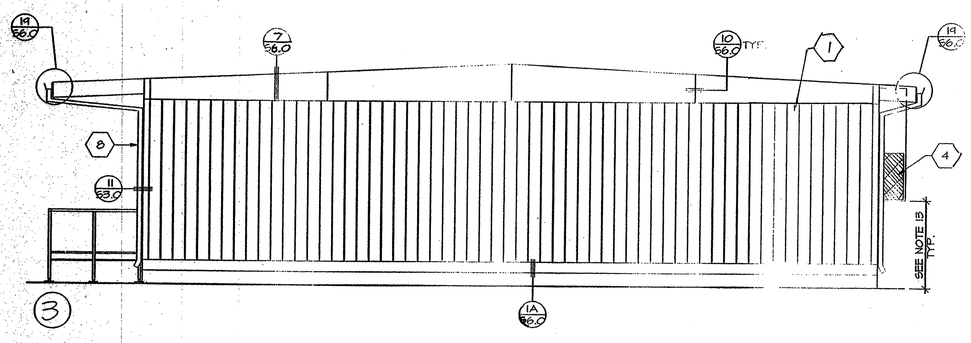

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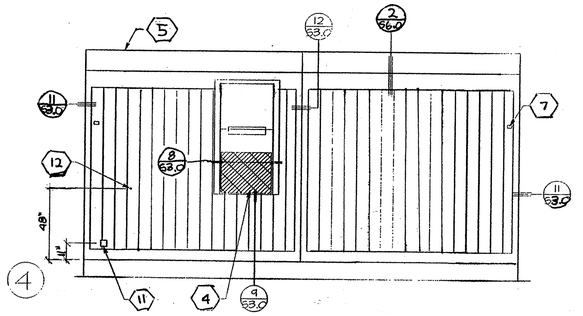

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NOTE:
RAMPS NEEDED ACCORDINGLY TO SITE CONDITIONS. STANDARD RAMP DESIGN SHOWN FOR REFERENCE ONLY- SEE RAMP SHEETS FOR ALTERNATE RAMP DESIGN.

KEYNOTES

1 TYPICAL EXTERIOR FINISH- SEE SHEET 9.1

2 EXTERIOR DOOR- SEE SHEET 9.1

3 ALUMINUM SLIDER WINDOW- SEE SHEET 9.1

4 WALL MOUNTED ELECTRIC HEAT PUMP- SEE SHEET 9.0

5 ROOFING- SHEET 9.1

6 EXTERIOR LIGHT MOUNTED ABOVE DOOR- SEE SHEET E1.0

7 METAL TAG ON ALL MODULES MECHANICALLY ATTACHED TO EXTERIOR OF REAR FRAME, @ 8'-0" A.F.F. SHOWING DSA APP. #, MANUFACTURERS NAME AND UNIT SERIAL NUMBER.

8 26 ga. DOWNSPOUT.

9 ACCESS SIGN (SEE DETAIL 14 SHEET 53.0) (NOT BY PORTABLE MANUFACTURER)

10 FIRE ALARM HORN OR BELL LOCATED @ 8'-6" ON THE EXTERIOR. CONDUIT TO BE STUBBED INTO ATTIC SPACE ONLY.

11 3-COMP. BOX FOR LOW VOLT.

12 ELECTRICAL POINT OF CONNECTION

13 IF HVAC UNIT IS LOCATED IN ANY PATH OF TRAVEL, PROVIDE PROTECTION FROM OVERHEAD HAZARD IF DIMENSION IS GREATER THAN 27" A.F.S.

D.S.A.

NOV 18

D.S.A.

STRUCT. ENGINEER

REGISTERED PROFESSIONAL ENGINEER
TODD A. GALLI
No. 3602
STRUCTURAL
STATE OF CALIF.

LICENSE EXPIRES 5-30-2004

ARCHITECT

CHANGE ORDER

CHECKED BY

AURORA MODULAR INDUSTRIES
16833 Kramer Ave., Riverside, CA. 92504
Phone (909) 789-7196
Fax (909) 789-0283

RELOCATABLE CLASSROOM BUILDINGS FOR:
WILLIAMS/SCOTSMAN
STOCKPILE

EXTERIOR ELEVATIONS (24x40) W/ RESTROOM

BY M.C. DATE 11/12/2000

SHEET A2.1

4504 C.A.D. FILE NO.

EXTERIOR ELEVATIONS (GABLE) 24x40

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

CBC 1998

PC

KEYNOTES

1 TYPICAL INTERIOR FINISH- SEE SHEET 9.1

2 TYPICAL CEILING MATERIAL- SEE SHEET 9.1

3 EXTERIOR DOOR- SEE SHEET 9.1

4 ALUMINUM SLIDER WINDOW- SEE SHEET 9.1

5 CLOCK-SEE SHEET E1.0

6 FINISH FLOORING- SEE SHEET 9.1

7 FIRE EXTINGUISHER- 5 lb DRY CHEMICAL WITH 2A-10B-C UL RATING. F.E. HANDLE @ 48" A.F.F.

8 HVAC RETURN

9 FIRE ALARM- PULL STATION LOCATED @ 4'-0" ON THE INTERIOR, HORN OR BELL LOCATED @ 8'-6" ON THE EXT. CONDUIT TO BE STUBBED INTO ATTIC SPACE ONLY.

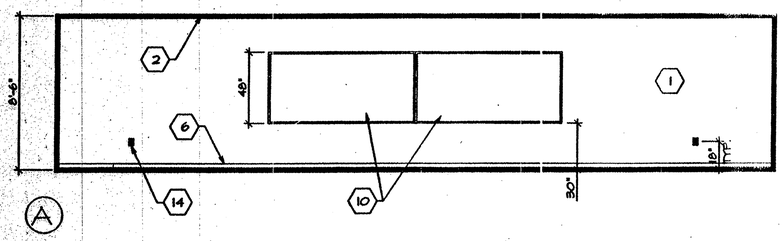
10 MARKERBOARD - SEE SHEET 9.1

11 ELECTRICAL PANEL 'A'- SEE SHEET E1.0

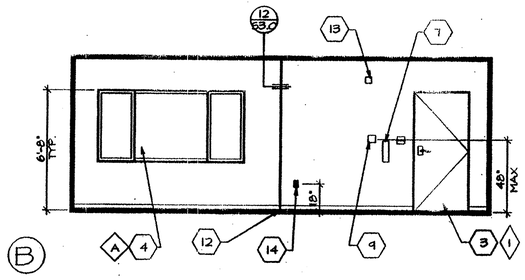
12 VINYL WRAPPED CLOSE-OFF BATT.

13 J-BOX FOR VISUAL WARNING DEVICE @ +80" A.F.F.

14 - ELECTRICAL OUTLET. SEE SHT E1.0 (VERIFY EXACT LOCATION ON SHT. E1.0)



A



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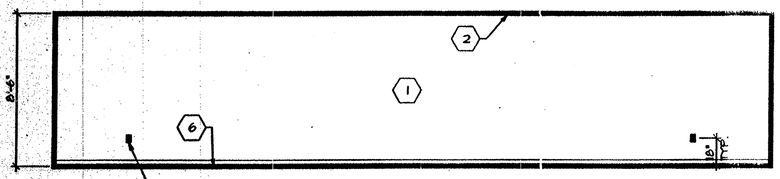

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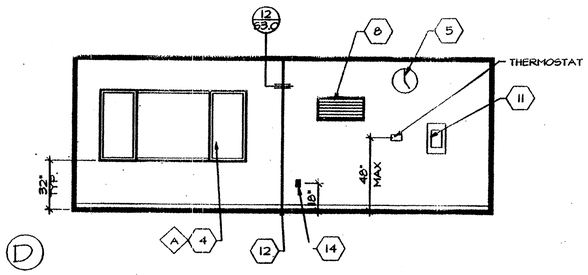


D

INTERIOR ELEVATIONS (24x40)

'A' SHOWN
'B' OPPOSITE

SCALE 1/4" = 1'-0"

D.S.A.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
04 - 111055
AC. PK FLR EC
DATE JUN 29 1999

D.S.A.

AC. PK
DATE NOV 16 2

STRUCT. ENGINEER

REGISTERED PROFESSIONAL ENGINEER
JOHN T. SIMPSON
No. 24001
STRUCTURAL
STATE OF CALIFORNIA

LICENSE EXPIRES 6-30-2000

ARCHITECT

CHANGE ORDER

CHECKED BY

16833 Kramer Ave., Riverside, CA. 92504
Phone (909) 789-7195
Fax (909) 780-9283

AURORA MODULAR INDUSTRIES

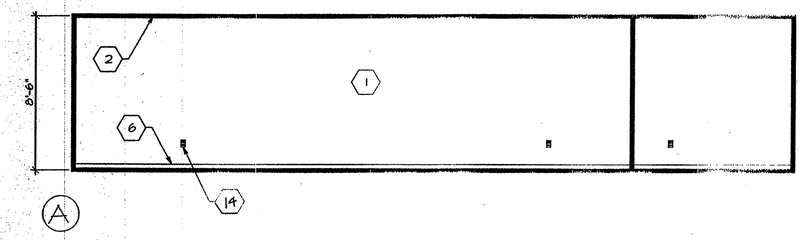
INTERIOR ELEVATIONS (24x40)

BY DATE

SHEET A3.0

4504 C.A.D. FILE NO.

RELO-A3.0



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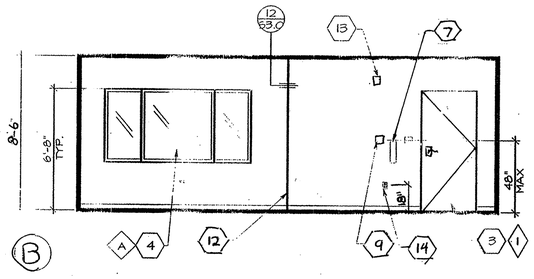

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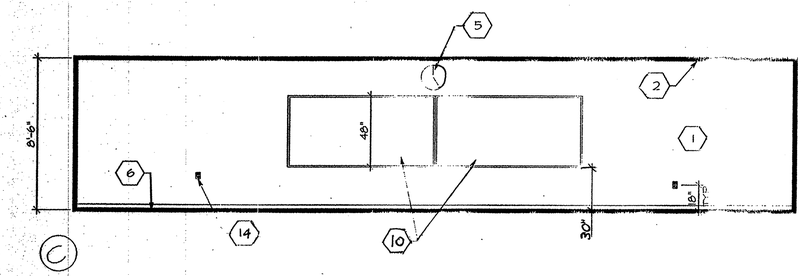

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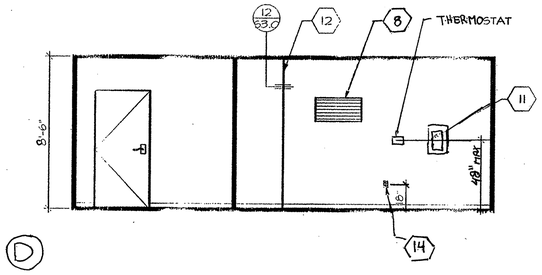

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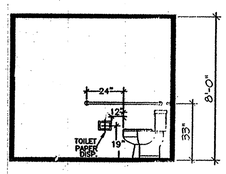
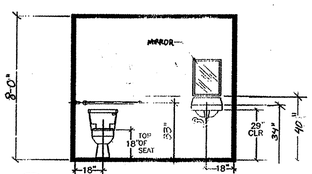


RESTROOM

E



RESTROOM

F

KEYNOTES

1. TYPICAL INTERIOR FINISH- SEE SHEET 9.1
2. TYPICAL CEILING MATERIAL- SEE SHEET 9.1
3. EXTERIOR DOOR- SEE SHEET 9.1
4. ALUMINUM SLIDER WINDOW- SEE SHEET 9.1
5. CLOCK-SEE SHEET E1.0
6. FINISH FLOORING- SEE SHEET 9.1
7. FIRE EXTINGUISHER- 5 lb DRY CHEMICAL WITH 2A-10B-C UL RATING. F.E. HANDLE @ 48" A.F.F.
8. RETURN AIR GRILLE FOR HVAC UNIT
9. FIRE ALARM- PULL STATION LOCATED @ 4'-0" ON THE INTERIOR, HORN OR BELL LOCATED @ 8'-6" ON THE EXT. CONDUIT TO BE STUBBED INTO ATTIC SPACE ONLY.
10. MARKERBOARD - SEE SHEET 9.1
11. ELECTRICAL PANEL 'A'- SEE SHEET E1.0
12. VINYL WRAPPED CLOSE-OFF BATT.
13. J-BOX FOR VISUAL WARNING DEVICE @ +80" A.F.F.
14. - ELECTRICAL OUTLET. SEE SHT E1.0

D.S.A.

NOV 16 2004

D.S.A.

STRUCT. ENGINEER

REGISTERED PROFESSIONAL ENGINEER
No. 36602
STRUCTURAL
STATE OF CALIF.

LICENSE EXPIRES 6-30-2004

ARCHITECT

CHANGE ORDER

CHECKED BY

AURORA MODULAR INDUSTRIES
16833 Kramer Ave., Riverside, Ca. 92504
Phone (909) 780-7196
Fax (909) 789-0263

RELOCATABLE CLASSROOM BUILDINGS FOR:

WILLIAMS/SCOTSMAN
STOCKPILE

INTERIOR ELEVATIONS (24x40) W/ RESTROOM

BY: M.C. DATE: 11/12/2000

SHEET

A3.1

4504 C.A.D. FILE NO.

INTERIOR ELEVATIONS (24x40) 'A' SHOWN 'B' SEPARATE

SCALE 1/4" = 1'-0"

D.S.A.
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGIONAL PROJECTS
04-1XX055
AC —
DATE JUN 25 1999

O.S.A.
NOV 16 2000

STRUCT. ENGINEER

ARCHITECT
LICENSE EXPIRES 6-30-

CHANGE ORDER

CHECKED BY

URORA MODULAR INDUSTRIES
16533 Kromeria Ave., Riverside, CA. 92504
Phone (909) 789-7196
Fax (909) 789-0263

RELOCATABLE BUILDING FOR:
STOCKPILE
WILLIAMS / SCOTSMAN

ROOF PLAN
(GABLE ROOF)

BY: AN DATE: 10-11-00
SHEET
A4.0
4504-

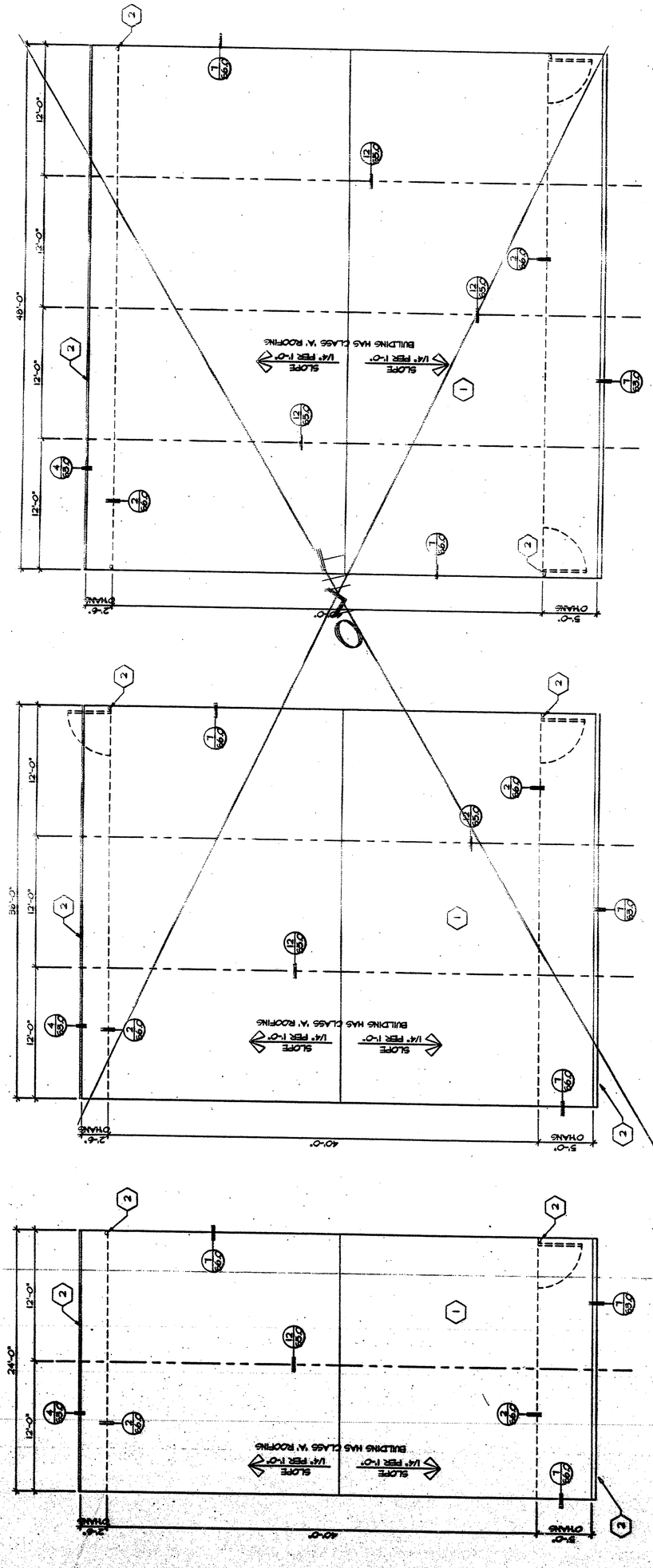
CBC 1998

PC

KEYNOTES

1 ROOFING- SEE SHEET 4.1

2 26 GA. GUTTER AND DOWNSPOUT.



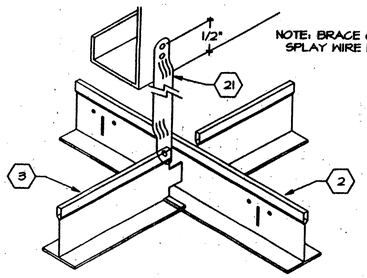
48x40

36x40

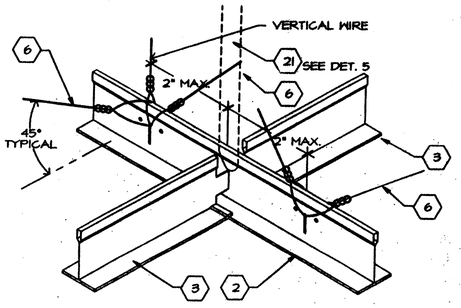
24x40

ROOF PLAN (GABLE)
SCALE: 3/16" = 1'-0"

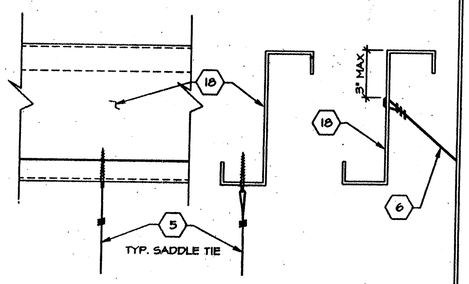
RELO-4.0



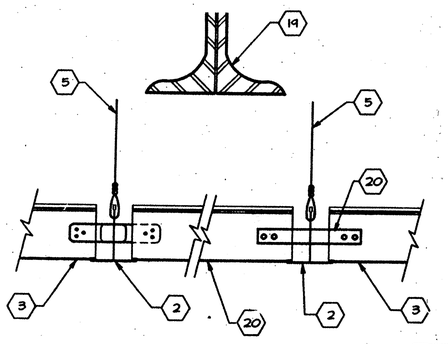
VERTICAL BRACE 5



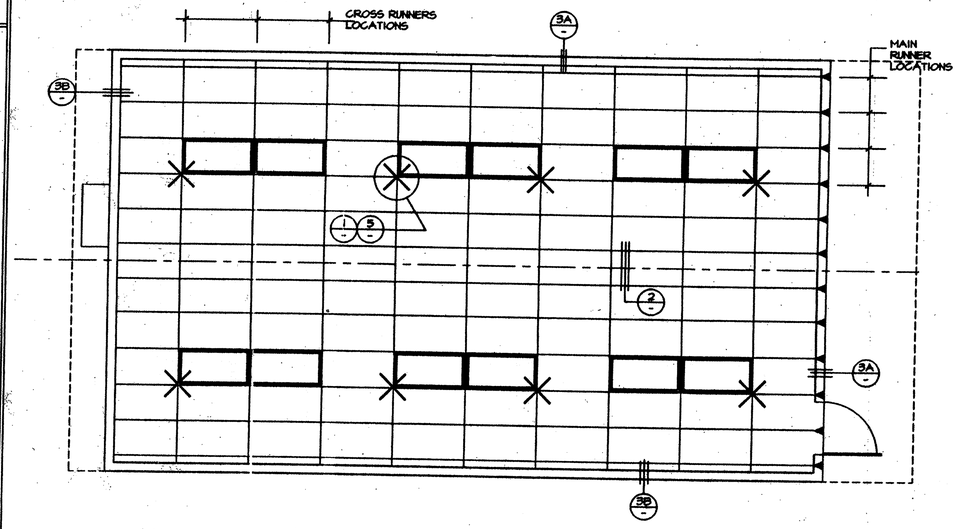
SPLAY WIRE 1



WIRE ATTACHMENT 6



GRID AT MODLINE 2

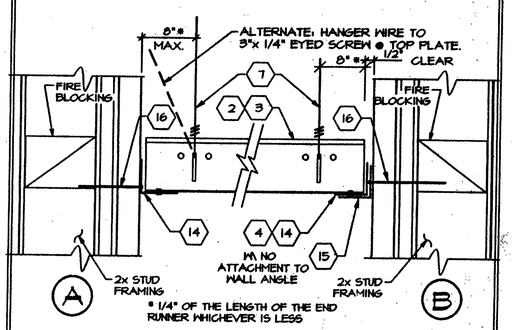


REFLECTED CEILING PLAN (24x40)

SCALE 1/4" = 1'-0"

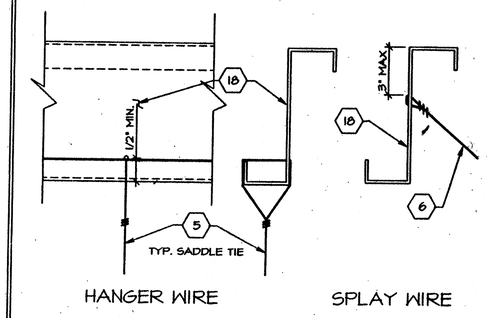
CEILING HEIGHT 8'-6"

'A' UNIT SHOWN
'B' UNIT OPP. HAND



GRID AT WALL 3

7



ALT. WIRE ATTACHMENT 4

8

KEYNOTES

1 MAIN RUNNERS @ 4'-0" O.C. MAX. WITH HANGER WIRES SPACED @ 4'-0" O.C. MAX.

2 MAIN RUNNER: ARMSTRONG - 7301 HEAVY DUTY

3 CROSS RUNNER: ARMSTRONG - XL 7328 HEAVY DUTY

4 WALL RUNNER: ARMSTRONG 7800 D

5 TYPICAL HANGER WIRE TO BE 12 Ga. STEEL WIRE ATTACHED TO STRUCTURE ABOVE AND TO GRID WITH (9) TIGHT TURNS WITHIN 1 1/2" - SEE DETAIL 4

6 TYPICAL SPLAY WIRE TO BE 12 Ga. STEEL WIRE ATTACHED TO STRUCTURE ABOVE AND TO GRID WITH (4) TIGHT TURNS WITHIN 1 1/2" - SEE DETAIL 4

7 AT END OF ROWS OF RUNNERS, A HANGER WIRE SHALL BE ATTACHED WITHIN 8" (OF ANY WALL OR SOFFIT) OR 1/4 LENGTH OF END TEE WHICHEVER IS LEAST

8 VERTICAL WIRES MORE THAN 1:6 OUT OF PLUMB SHALL HAVE COUNTERBALANCE WIRES INSTALLED.

9 RUNNERS MAY BE ATTACHED TO WALL MOLDING AT (2) ADJOINING WALLS; AT OTHER WALLS NO ATTACHMENT. WHERE THERE IS NO ATTACHMENT THERE SHALL BE A 1/2" CLEARANCE BETWEEN END RUNNER AND FACE OF WALL.

10 CEILING AREAS EVERY 144 SQ. FT. OR MORE SHALL HAVE SPLAY WIRES INSTALLED AS INDICATED ON CEILING PLAN. SPLAY WIRES SHALL BE TAUT BUT SHALL NOT DISTORT GRID.

11 ELECTRICIAN SHALL PROVIDE (2) SLACK HANGER WIRES AT OPPOSITE CORNERS OF ALL LIGHT FIXTURES. WIRES SHALL BE ATTACHED TO STRUCTURE ABOVE PER NOTE 5. LIGHT FIXTURES SHALL BE ATTACHED TO CEILING GRID WITH (2) #6 SHEET METAL SCREWS.

12 DUCTWORK, IF REQUIRED, SHALL BE RIGIDLY ATTACHED TO STRUCTURE ABOVE AT INTERVALS NOT TO EXCEED 4' AND SHALL NOT BE CLOSER THAN 6" TO ANY WIRE.

15 CEILING REGISTERS, WHEN INDICATED ON PLANS, SHALL BE ATTACHED TO STRUCTURE ABOVE PER NOTE 5.

14 CONT. WALL 7/8" ANGLE WITH POP RIVET TO EACH MEMBER.

15 7/8" CONTINUOUS WALL ANGLE.

16 6d NAIL @ 16" O.C. INTO BLOCK OR STUD.

17 OPTIONAL INTERIOR PARTITION WALL.

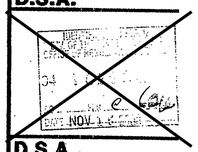
18 ROOF JOIST - SEE SHEET S4.0 OR S4.1

19 MODLINE ABOVE

20 CLOSE OFF CROSS TEE - INSERT ONE END OF CROSS TEE INTO MAIN RUNNER WITH BAYONET. CUT OPPOSITE END TO FIT (IF LESS THAN 24"). INSERT MIN. 20 ga. MTL. STRAP THRU MAIN RUNNER, SECURE TO CROSS TEE W/ (2) #8 TEK SCREWS AT EACH END.

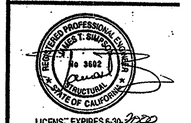
21 VERTICAL BRACE - 1/2" STEEL CONDUIT AT SPLAY WIRE LOCATIONS. DRILL (2) 1/8" HOLE THRU CONDUIT @ TOP & (1) @ BOTTOM. ATTACH CONDUIT TO JOIST ABOVE W/ (2) #8 TEK SCREWS. WITHIN 2" OF CROSS RUNNER.

D.S.A.



D.S.A.

STRUCT. ENGINEER



LICENSE EXPIRES 6-30-2020

ARCHITECT

CHANGE ORDER

CHECKED BY

AURORA MODULAR INDUSTRIES
16833 Kramer Ave., Riverside, CA. 92504
Phone (909) 789-7196
Fax (909) 789-0263

RELOCATABLE BUILDING FOR:
STOCKPILE
WILLIAMS / SCOTSMAN

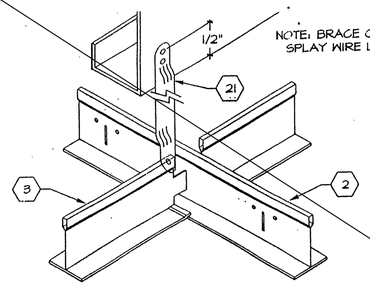
REFLECTED CEILING PLAN (24x40)

BY: AH DATE: 10-1-20

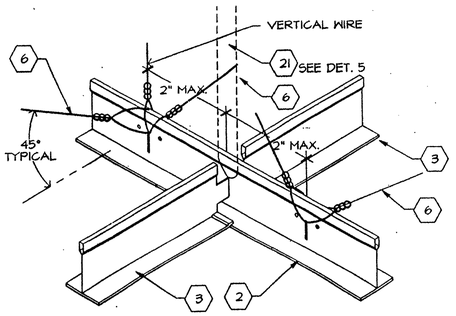
SHEET
A5.0

C.A.D. FILE NO.
4504

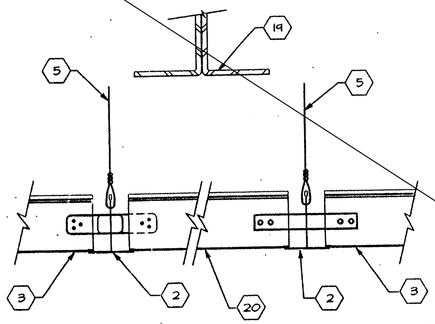
RELO-5.0



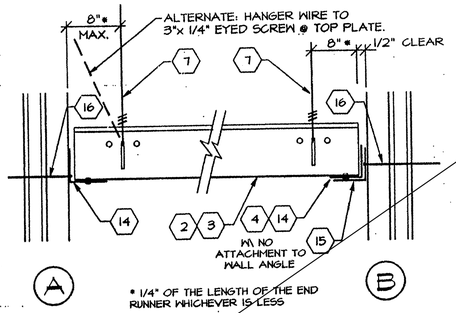
VERTICAL BRACE 5



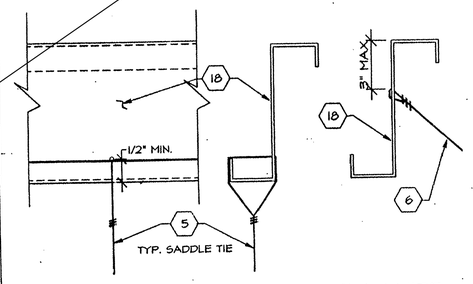
SPLAY WIRE 1



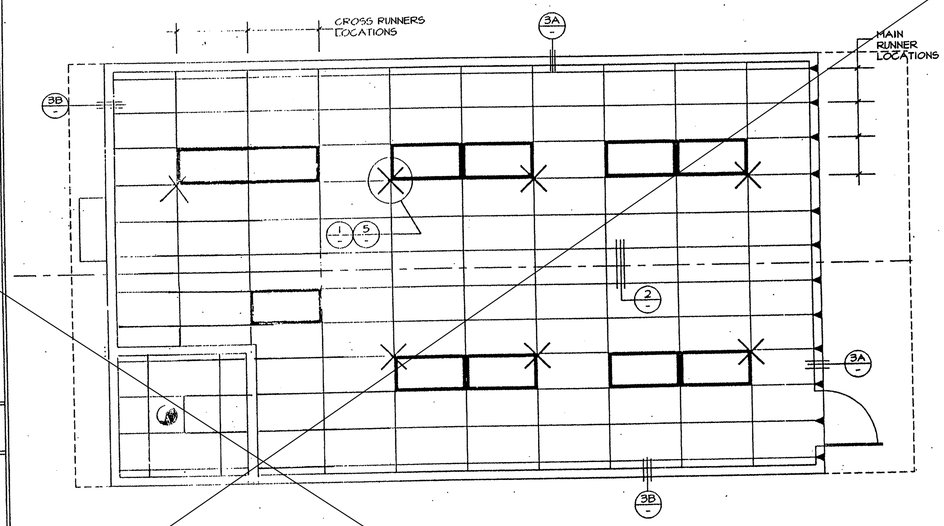
GRID AT MODLINE 2



GRID AT WALL 3



WIRE ATTACHMENT 4



REFLECTED CEILING PLAN

SCALE 1/4" = 1'-0"

CEILING HEIGHT 8'-6"

'A' UNIT SHOWN
'B' UNIT OPP. HAND

KEYNOTES

1 MAIN RUNNERS @ 4'-0" O.C. MAX. WITH HANGER WIRES SPACED @ 4'-0" O.C. MAX.

2 MAIN RUNNER: DONN CORP. DX-26 HEAVY DUTY

3 CROSS RUNNER: DONN CORP. DX-424 HEAVY DUTY

4 WALL RUNNER: DONN CORP. MT-EV

5 TYPICAL HANGER WIRE TO BE 12 Ga. STEEL WIRE ATTACHED TO STRUCTURE ABOVE AND TO GRID WITH (3) TIGHT "URNS WITHIN 1 1/2" - SEE DETAIL 4

6 TYPICAL SPLAY WIRE TO BE 12 Ga. STEEL WIRE ATTACHED TO STRUCTURE ABOVE AND TO GRID WITH (4) TIGHT TURNS WITHIN 1 1/2" - SEE DETAIL 4

7 AT END OF ROWS OF RUNNERS, A HANGER WIRE SHALL BE ATTACHED WITHIN 8" (OF ANY WALL OR SOFFIT) OR 1/4 LENGTH OF END TEE WHICHEVER IS LEAST

8 VERTICAL WIRES MORE THAN 1:6 OUT OF PLUMB SHALL HAVE COUNTERBALANCE WIRES INSTALLED.

9 RUNNERS MAY BE ATTACHED TO WALL MOLDING AT (2) ADJOINING WALLS. AT OTHER WALLS NO ATTACHMENT. WHERE THERE IS NO ATTACHMENT THERE SHALL BE A 1/2" CLEARANCE BETWEEN END RUNNER AND FACE OF WALL.

10 CEILING AREAS EVERY 144 SQ. FT. OR LESS SHALL HAVE SPLAY WIRES INSTALLED AS INDICATED ON CEILING PLAN SPLAY WIRES SHALL BE TAUT BUT SHALL NOT DISTORT GRID

11 ELECTRICIAN SHALL PROVIDE (2) SLACK HANGER WIRES AT OPPOSITE CORNERS OF ALL LIGHT FIXTURES. WIRES SHALL BE ATTACHED TO STRUCTURE ABOVE PER NOTE 5. LIGHT FIXTURES SHALL BE ATTACHED TO CEILING GRID WITH (2) #8 SHEET METAL SCREWS.

12 DUCTWORK, IF REQUIRED, SHALL BE RIGIDLY ATTACHED TO STRUCTURE ABOVE AT INTERVALS NOT TO EXCEED 4' AND SHALL NOT BE CLOSER THAN 6" TO ANY WIRE.

13 CEILING REGISTERS, WHEN INDICATED ON PLANS, SHALL BE ATTACHED TO STRUCTURE ABOVE PER NOTE 5.

14 CONT. WALL 7/8" ANGLE WITH POP RIVET TO EACH MEMBER.

15 7/8" CONTINUOUS WALL ANGLE.

16 6d NAIL @ 16" O.C. INTO BLOCK OR STUD.

17 NOT USED

18 ROOF JOIST- SEE SHEET 5.

19 ROOF TRUSS SEE SHEET 5.1

20 CLOSE OFF CROSS TEE- INSERT ONE END OF CROSS TEE INTO MAIN RUNNER WITH BAYONET. CUT OPPOSITE END TO FIT (IF LESS THAN 24"). INSERT MIN. 20 ga. MTL. STRAP THRU MAIN RUNNER, SECURE TO CROSS TEE W/ (2) #8 TEK SCREWS AT EACH END.

21 VERTICAL BRACE- 1/2" STEEL CONDUIT AT SPLAY WIRE LOCATIONS. DRILL 1/8" HOLE THRU CONDUIT AT TOP & BOTTOM. ATTACH CONDUIT TO JOIST ABOVE W/ (2) #8 TEK SCREWS. WITHIN 2" OF CROSS RUNNER

D.S.A.

NOV 1 6 2004

D.S.A.

STRUCT. ENGINEER

REGISTERED PROFESSIONAL ENGINEER — JAMES A. [illegible] — No. 3602 — STRUCTURAL — STATE OF CALIFORNIA

LICENSE EXPIRES 6-30-2004

ARCHITECT

CHANGE ORDER

CHECKED BY

16833 Krameria Ave., Riverside, CA. 92504
Phone (909) 789-7196
Fax (909) 789-0283

AURORA MODULAR INDUSTRIES

RELOCATABLE CLASSROOM BUILDINGS FOR:

WILLIAMS/SCOTSMAN
STOCKPILE

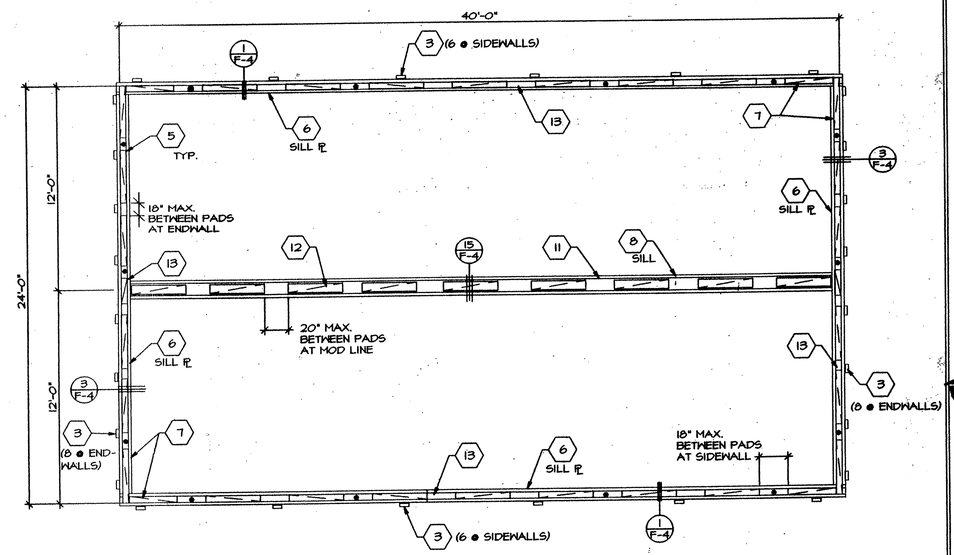
REFLECTED CEILING PLAN W/ RESTROOM

BY M.C. DATE 11/12/2000

SHEET A5.1

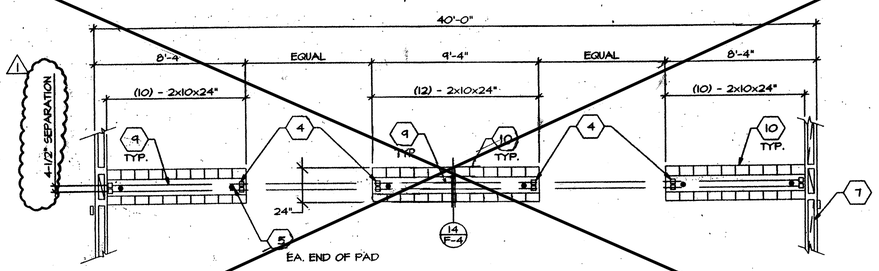
4504 C.A.D. FILE NO.

File: H:\PC_253\PC253-7 Last edited: 09/07/95 @ 08:19 by: Jerry



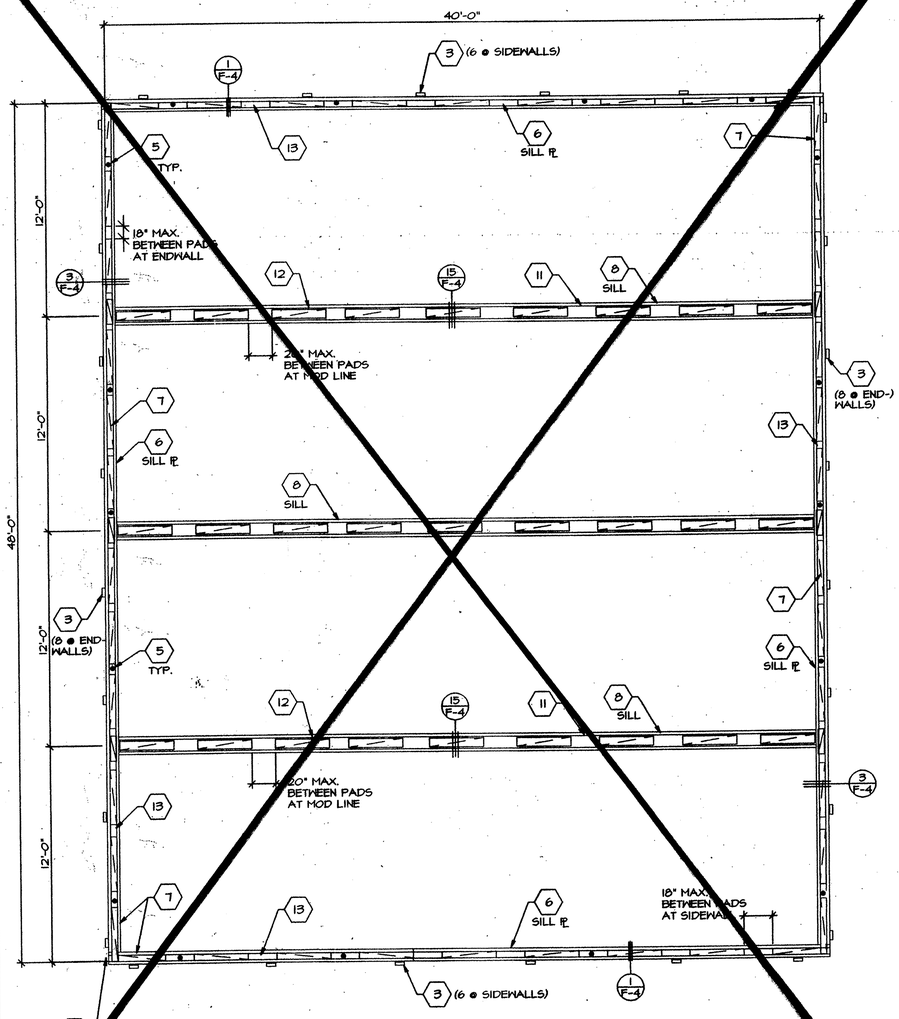
FOUNDATION PLAN (24x40)

SCALE: 1/4" = 1'-0" (50 PSF LIVE LOAD)



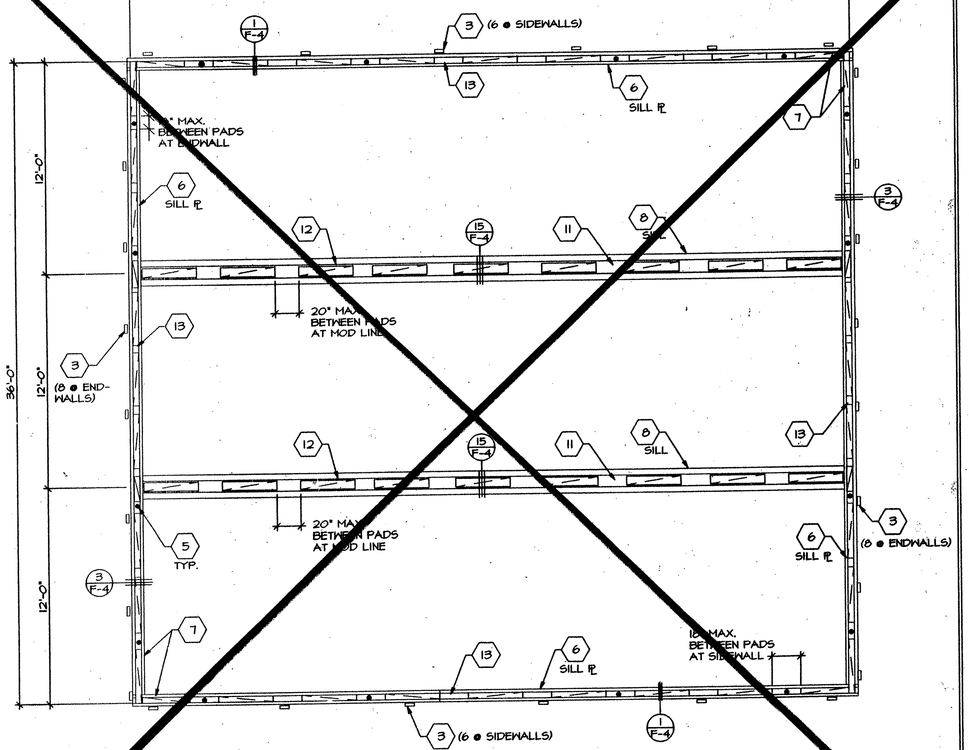
FOUNDATION PLAN @ ADJACENT BUILDING

SCALE: 1/4" = 1'-0" (50 PSF LIVE LOAD)



FOUNDATION PLAN (48x40)

SCALE: 1/4" = 1'-0" (50 PSF LIVE LOAD)



FOUNDATION PLAN (36x40)

SCALE: 1/4" = 1'-0" (50 PSF LIVE LOAD)

KEYNOTES

1 MAXIMUM SOIL BEARING PRESSURE - 1000 P.S.F.

2 ALL FOUNDATION LUMBER SHALL BE HEM FIR #2
ALL LUMBER IN CONTACT WITH GRADE SHALL BE STAMPED "FOR GROUND CONTACT".

ALL FOUNDATION NAILS SHALL BE CORROSION RESISTANT PER U.B.C. STANDARD 25.17.1.

3 TIE PLATE - 12"x 6"x 10Ga. PLATE W/ (8) 5/16" HOLES AS SHOWN FOR (4) 1/4"x 3/4" LONG SELF TAP SCREWS INTO CHANNEL & (4) 1/4"x 3" LAG BOLTS.

24x40:
70 M.P.H.= 6 PLATES @ ENDWALLS AND 4 PLATES @ SIDEWALLS.

80 M.P.H.= 8 PLATES @ ENDWALLS AND 4 PLATES @ SIDEWALLS.

36x40:
70 & 80 M.P.H.= 8 PLATES @ ENDWALLS AND 6 PLATES @ SIDEWALLS.

48x40:
70 & 80 M.P.H.= 8 PLATES @ ENDWALLS AND 6 PLATES @ SIDEWALLS.

4 USE 6- 5/8" x4" LAGS @ EACH BLDG. & NAIL PLATE TO PLATE TO PLATE W/ 2- 16d BOX @ 4" O.C.

5 DRIVE 1" DIA. x 15" G.I. PIPE @ 10'-0" O.C. MAX. DRILL SILL PLATE 1-1/4" MAX. PIPE MAY BE DRIVEN AT MAX. 45 ANGLE TO VERTICAL. (8 EA. BLDG)

6 CONTINUOUS 2x8 P.T.H.F. SILL PLATE. PLATE SPLICES SHALL OCCUR AT CENTER OF 2x4 BLOCK LOCATIONS.

7 2x4x 3'-0" LONG BLOCKS. NAIL BLOCKS TOGETHER WITH 16d BOX NAILS @ 4" O.C. AND (2) 16d NAILS AT EACH END.

8 CONTINUOUS 2x12 P.T.H.F. SILL PLATE. PLATE SPLICES SHALL OCCUR AT CENTER OF 2x8 BLOCK LOCATIONS.

9 24x40:
70 & 80 M.P.H.= CONTINUOUS 2x12x(SEE PLAN)- NAIL PLATE TO PLATE WITH (2) 16d BOX NAILS @ EACH END @ 6" O.C.

36x40:
70 & 80 M.P.H.= CONTINUOUS 2x12x(SEE PLAN)- NAIL PLATE TO PLATE WITH (2) 16d BOX NAILS @ EACH END @ 5" O.C.

48x40:
70 & 80 M.P.H.= CONTINUOUS 2x12x(SEE PLAN)- NAIL PLATE TO PLATE WITH (2) 16d BOX NAILS @ EACH END @ 4" O.C.

10 2x10x24" LONG SILL PADS. P.T.H.F.
(SEE PLAN FOR QUANTITY 10 AT ENDS AND 12 AT INTERIOR)

11 CONTINUOUS 2x8 H.F. PLATE. PLATE SPLICES SHALL OCCUR AT CENTER OF 2x6 BLOCK LOCATIONS.

12 2x6x 3'-0" LONG BLOCKS. NAIL BLOCKS TOGETHER WITH 16d BOX NAILS @ 4" O.C. AND (2) 16d NAILS AT EACH END.

13 2x4x CONTINUOUS INTERNAIL TO EACH PAD WITH 16d BOX NAILS @ 5" O.C. STAGGERED.

NOTE:
WHEN BUILDING HAS A WIND LOAD OF 80 MPH USE D.F. #2 LUMBER

24' X 40" VENTILATION CALC.

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

REQUIRED VENTILATION - 1 SF. / 150 SF.
960 / 150 = 6.4 SF VENT REQUIRED

SIZE OF VENT TO BE USED - 3"x 17" = 51 SQ IN.
51 / 144 = 0.35 SQ. FT.

MINIMUM NUMBER OF VENTS NEEDED - 20
TOTAL VENTILATION - 7.0# FEET

NUMBER OF VENTS TO BE USED - 28
TOTAL VENTILATION - 9.8# FEET

36' X 40' VENTILATION CALC.

BUILDING SQUARE FOOTAGE - 36' X 40' = 1,440 SF

REQUIRED VENTILATION - 1 SF. / 150 SF.
1,440 / 150 = 9.6 SF VENT REQUIRED

SIZE OF VENT TO BE USED - 3"x 17" = 51 SQ IN.
51 / 144 = 0.35 SQ. FT.

MINIMUM NUMBER OF VENTS NEEDED - 28
TOTAL VENTILATION - 9.8# FEET

NUMBER OF VENTS TO BE USED - 32
TOTAL VENTILATION - 11.20# FEET

48' X 40' VENTILATION CALC.

BUILDING SQUARE FOOTAGE - 48' X 40" = 1,920 SF

REQUIRED VENTILATION - 1 SF. / 150 SF.
1,920 / 150 = 12.8 SF VENT REQUIRED

SIZE OF VENT TO BE USED - 3"x 17" = 51 SQ IN.
51 / 144 = 0.35 SQ. FT.

MINIMUM NUMBER OF VENTS NEEDED - 37
TOTAL VENTILATION - 12.95# FEET

NUMBER OF VENTS TO BE USED - 40
TOTAL VENTILATION - 14.0# FEET

D.S.A.
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
04 - 104055
AP.
DATE JAN 29 1999

CBC 1998

D.S.A.
NOV 16 2000

STRUCT. ENGINEER
REGISTERED PROFESSIONAL ENGINEER
JAMES T. BURROUGHS
No. 21402
CIVIL
STRUCTURAL
STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-2000

ARCHITECT

CHANGE ORDER

CHECKED BY

AURORA MODULAR INDUSTRIES
18633 Kramaria Ave., Riverside, CA. 92504
Phone (909) 788-7196
Fax (909) 788-0283

RELOCATABLE BUILDING FOR:
STOCKPILE
WILLIAMS / SCOTSMAN

FOUNDATION PLANS
(WOOD 50 LB. L.L.)

BY AH DATE 12-11-00

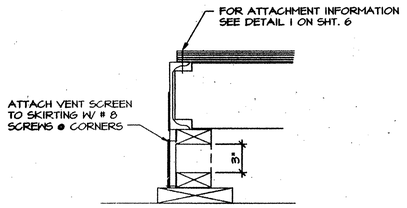
SHEET
T1E 1

450# CAD FILE NO. FOUND-2A.DWG

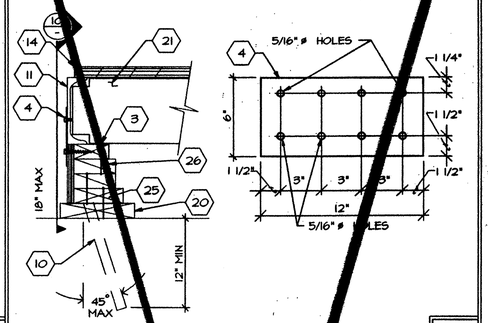
RELO-F-1

TYPICAL DETAILS

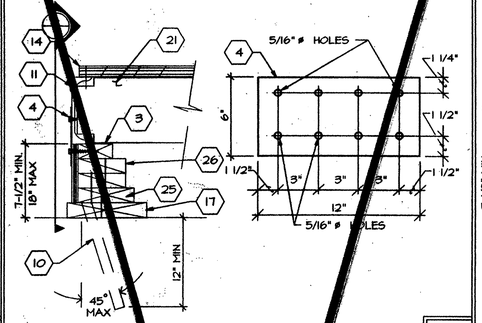
125 PSF L.L.	50 PSF L.L. + 20 LBS. PARTITIONS	50 PSF L.L.



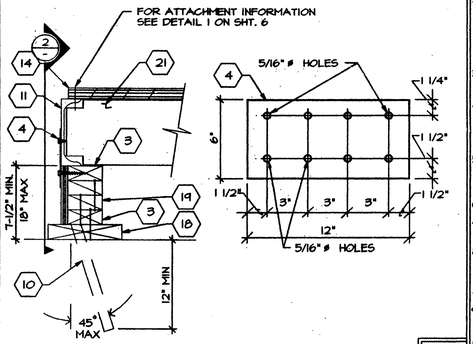
FOUNDATION VENTING 13



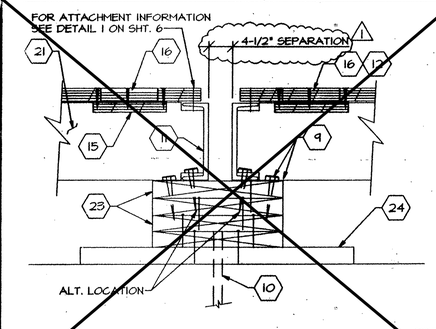
FOUNDATION AT SIDEWALL 9



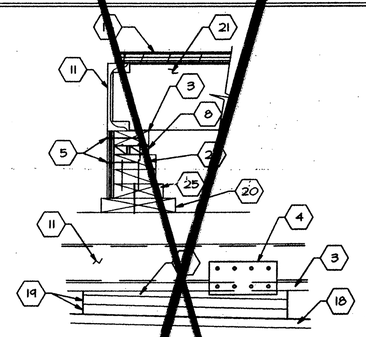
FOUNDATION AT SIDEWALL 5



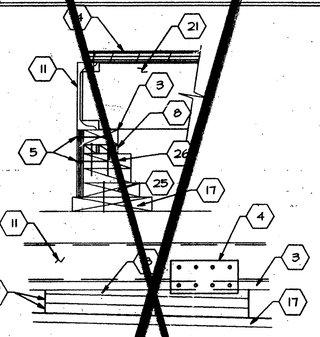
FOUNDATION AT SIDEWALL 1



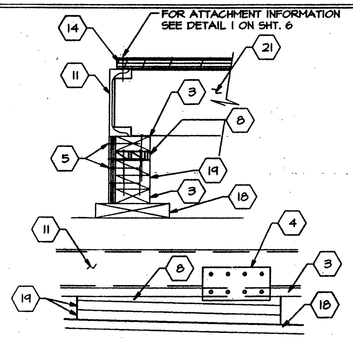
COMMON PAD 14



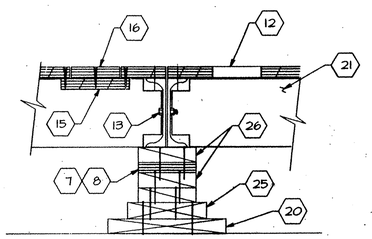
SHIMMING AND SKIRTING (SIDEWALL SHOWN) 10



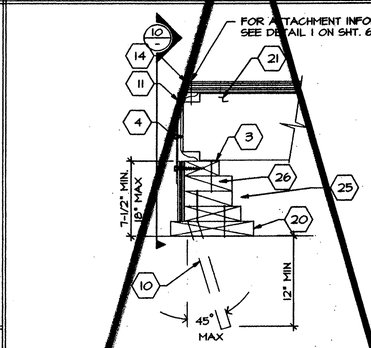
SHIMMING AND SKIRTING (SIDEWALL SHOWN) 6



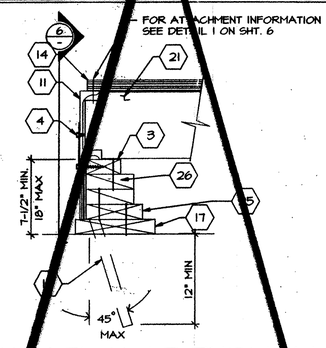
SHIMMING AND SKIRTING (SIDEWALL SHOWN) 2



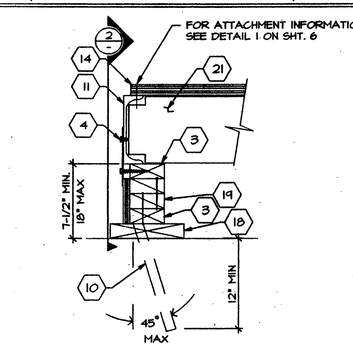
FOUNDATION AT MOD LINE 15



FOUNDATION AT ENDWALL 11

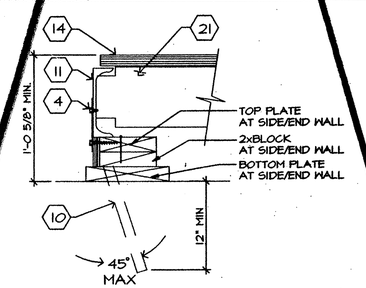


FOUNDATION AT ENDWALL 7

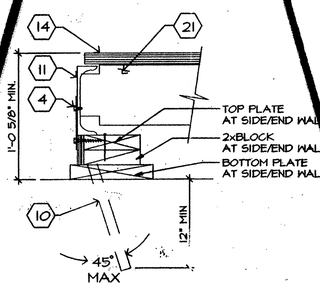


FOUNDATION AT ENDWALL 3

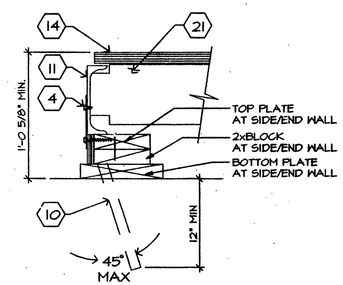
14



MIN. FOUNDATION SET 12



MIN. FOUNDATION SET 8



MIN. FOUNDATION SET 4

KEYNOTES

1 MAXIMUM SOIL BEARING PRESSURE - 1000 P.S.F.

2 ALL FOUNDATION LUMBER SHALL BE HEM FIR #2
ALL LUMBER IN CONTACT WITH GRADE SHALL BE STAMPED "FOR GROUND CONTACT".

ALL FOUNDATION NAILS SHALL BE CORROSION RESISTANT PER U.B.C. STANDARD 25.17.17.

3 2x4x CONTINUOUS. INTERNAIL TO EACH PAD WITH 16d BOX NAILS @ 5" O.C. STAGGERED.

4 TIE PLATE - 12"x 6"x 10ga. PLATE W/ (8) 5/16" HOLES AS SHOWN FOR (4) 1/4"x 3/4" LONG SELF TAP SCREWS INTO CHANNEL & (4) 1/4"x 3" LAG BOLTS.

5 5/8" PLYWOOD PERIMETER SKIRTING. NAIL TO FOUNDATION PADS WITH 8d BOX NAILS @ 12" O.C. TOP AND BOTTOM.

6 NOT USED.

7 NOT USED

8 PLYWOOD OR WOOD SHIM - MIN. 8" LONG; MAX. 16" BETWEEN SHIMS. NAIL TO PLATES WITH MIN (3) 16d BOX NAILS PER SHIM. MAX. 1-1/2" SHIM HEIGHT AT ANY LOCATION.

9 USE 6- 5/8"ø x 4" LAGS @ EACH BLDG. & NAIL PLATE TO PLATE TO PLATE W/ 2- 16d BOX @ 4" O.C.

10 DRIVE 1" DIA. x 15" G.I. PIPE @ 10'-0" O.C. MAX. DRILL SILL PLATE 1-1/4" MAX. PIPE MAY BE DRIVEN AT MAX. 45° ANGLE TO VERTICAL.

11 STEEL FLOOR CHANNEL.

12 5" DIA. ACCESS HOLE AT MODULE CONNECTION BOLT LOCATIONS.

13 5/8" MACHINE BOLT @ MODULE CONNECTION.
SEE SHT. 5 'STRUCTURAL SIDE' FOR LOCATIONS.

14 PLYWOOD FLOOR DECK. ATTACH PLYWD. FLOORING TO STEEL CHANNEL WITH #10x1 1/2" S.T.S. - SEE SHEET 6 DETAIL 1

15 PLYWOOD STRIP - 3/4"x 3"x 8" PIECE W/ (2) #12x 2-1/4" FLAT HEAD WOOD SCREWS EACH END.

16 PLUG - 5" DIA. PIECE OF FLOOR SHEATHING W/ (2) #12x2-1/4" FLAT HEAD WOOD SCREWS EACH END.

17 CONTINUOUS 2x10 P.T.H.F. SILL PLATE. PLATE SPLICES SHALL OCCUR AT CENTER OF 2x8 BLOCK LOCATIONS.

18 CONTINUOUS 2x8 P.T.H.F. SILL PLATE. PLATE SPLICES SHALL OCCUR AT CENTER OF 2x4 BLOCK LOCATIONS.

19 2x4x 3'-0" LONG BLOCKS. NAIL BLOCKS TOGETHER WITH 16d BOX NAILS @ 4" O.C. AND (2) 16d NAILS AT EACH END.

20 CONTINUOUS 2x(SEE PLAN) P.T.H.F. SILL PLATE. PLATE SPLICES SHALL OCCUR AT CENTER OF 2x8 BLOCK LOCATIONS.

21 FLOOR JOIST OR BLOCK BETWEEN FLOOR JOIST.

22 NOT USED

23 CONTINUOUS 2x12x(SEE PLAN) - NAIL (2) 16d AT 4" O.C. & (2) 16d AT EACH END OF PLATE.

24 2x10x24" LONG SILL PADS. P.T.H.F.
(SEE PLAN FOR QUANTITY 10 AT ENDS AND 12 AT INTERIOR)

25 CONTINUOUS 2x(SEE PLAN) H.F. PLATE. PLATE SPLICES SHALL OCCUR AT CENTER OF 2x6 BLOCK LOCATION. NAIL WITH 16d BOX NAILS @ 4" O.C. AT 50 PSF + 20 LBS. PARTITIONS FLOOR LOAD AND @ 2 1/2" O.C. AT 125 PSF FLOOR LOAD.

26 2x6x 3'-0" LONG BLOCKS. NAIL BLOCKS TOGETHER WITH (2) 16d NAILS AT EACH END AND 16d BOX NAILS @ 4" O.C. AT 50 PSF + 20 LBS. PARTITIONS FLOOR LOAD AND @ 2 1/2" O.C. AT 125 PSF FLOOR LOAD.

NOTE:
WHEN BUILDING HAS A WIND LOAD USE 80 MPH USE D.F. #2 LUMBER.

D.S.A.
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
04 - 101055
AC. SS
DATE JUN 23 1999

D.S.A.
NOV 13

STRUCT. ENGINEER

CBC

LICENSE EXPIRES 6-30-2000

ARCHITECT

CHANGE ORDER

CHECKED BY

16333 Kramer Ave., Riverside, CA. 92504
Phone (909) 780-7196
Fax (909) 788-0353
AURORA MODULAR INDUSTRIES

RELOCATABLE BUILDING FOR:
STOCKPILE
WILLIAMS / SCOTSMAN

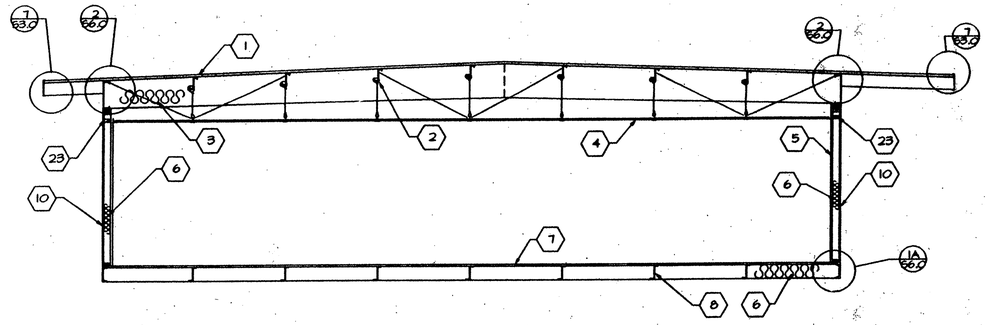
WOOD FOUNDATION PLAN DETAILS

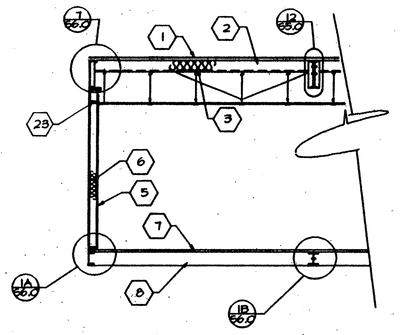
BY AH. DATE 10-11-99

SHEET T-4

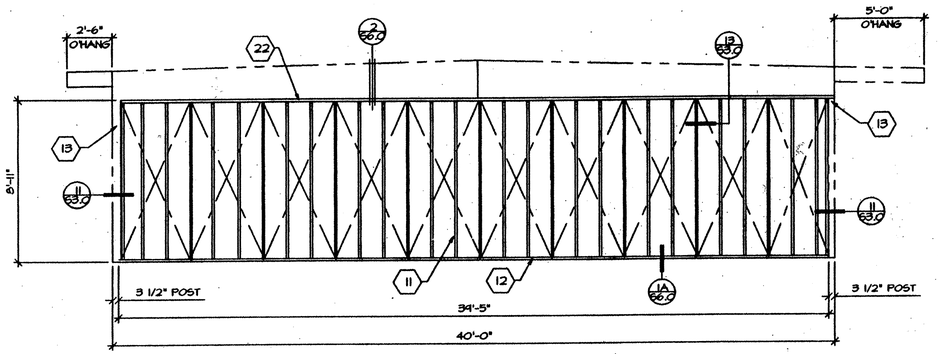
4504 CAD FILE NO.

RELO-F-4



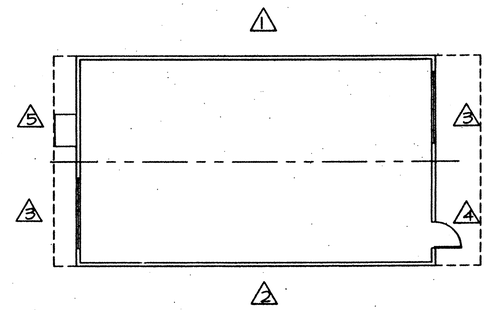


BUILDING SECTIONS
SCALE: 1/4" = 1'-0"



WALL ⚠2 SHOWN
WALL ⚠1 OPP. HAND

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

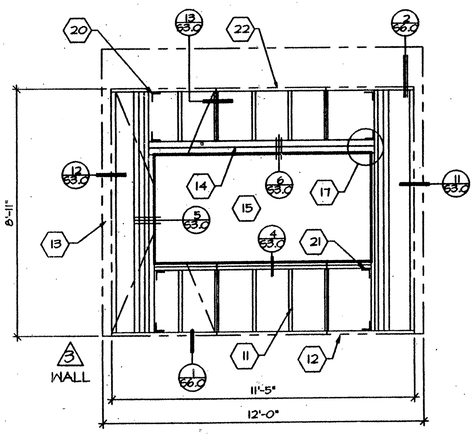


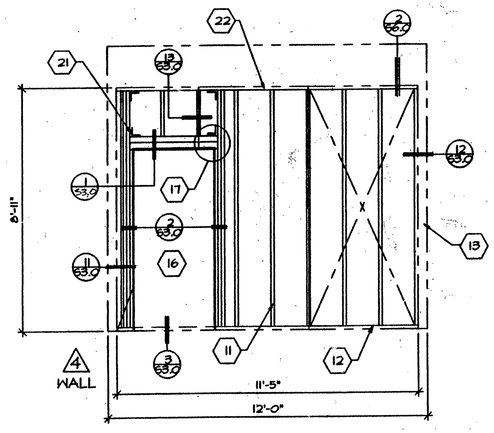
WALL LOCATIONS
SCALE: 1/8"=1'-0"

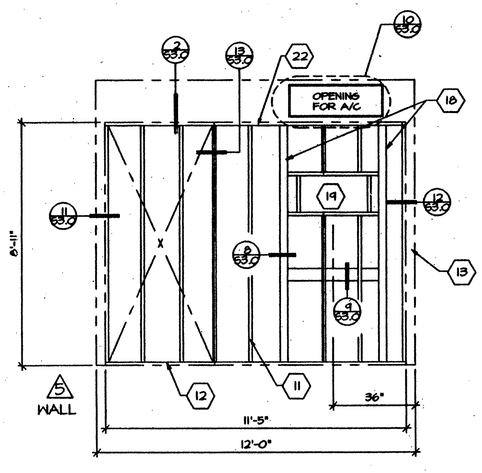
KEYNOTES

1 ROOF SHEATHING- SEE SHEET 9.1
2 STEEL ROOF JOIST- SEE SHEET S4.0
3 R-19 FIBERGLASS INSULATION ON METAL STRAPS.
4 SUSPENDED CEILING- SEE SHEET A5.0
5 TYPICAL INTERIOR FINISH- SEE SHEET 9.1
6 R-11 FIBERGLASS INSULATION.
7 PLYWOOD FLOOR SHEATHING- SEE SHEET S4.0
8 STEEL FLOOR JOIST- SEE SHEET S4.0
9 NOT USED
10 PLYWOOD SIDING/SHEATHING- SEE SHEET 9.0 FOR MATERIAL. NAIL SIDING WITH CORROSION RESISTANT 8d BOX NAILS @ 6" BOUNDARY & EDGES, 12" FIELD.
11 STUDS- 2x4 H.F. STUD GRADE @ 16" O.C.
12 BOTTOM PLATE- 2x4 H.F. STUD GRD. & BETTER.
13 STEEL FRAME- SEE SHEET S4.0 "STRUCTURAL ELEVATIONS" FOR MEMBER TYPES AND SIZES.
14 WINDOW HEADER- (2) 2x4 H.F. STUD GRD. FLAT.
15 FRAME FOR 8'-0"x 4'-0", WINDOW: USE (3) FULL HEIGHT HEM FIR 2x4 STUDS W/ 1 2x4 TRIMMER BOTH SIDES AND (2) 2x4 FLAT FOR WINDOW SILL. USE (4) FULL HEIGHT STUDS AT 80 MPH W/ STUCCO.
16 FRAME FOR 3'-0"x 6'-8" DOOR. USE (2) FULL HEIGHT 2x4 JAMB STUDS WITH (1) 2x4 TRIMMER BOTH SIDES, & (2) 2x4 FOR HEADER. SEE DETAIL 1 SHEET S3.0
17 NAIL THRU VERTICAL STUD INTO HORZ. HEAD OR SILL W/ MIN. (4) 16d NAILS PER CONNECTION. TYPICAL AT CORNERS OF ALL OPENINGS.
18 4x4 H.F. POST
19 SEE SHEET 9.1 FOR A/C SIZE AND TONAGE OF MECHANICAL PLAN.
20 'SIMPSON' A35 CLIPS (4) PLACES TO TOP AND BOTTOM PLATES.
21 'SIMPSON' A35 CLIPS (4) PLACES TO WINDOW SILL AND HEADER OR (2) PLACES TO DOOR HEADER.
22 2x4 PLATE- H.F. STANDARD OR BETTER.
23 FIRE BLOCKING PER SEC. 708, 1994 C.B.C.

NOTE:
WHEN BUILDING WIND LOAD IS 80MPH USE D.F. #2 WOOD MEMBERS.







TYPICAL ENDWALLS
SCALE 3/8"=1'-0"

D.S.A.

DATE: NOV 16 2000

D.S.A.

STRUCT. ENGINEER

REGISTERED PROFESSIONAL ENGINEER — JAMES T. SMITH — No. 38021 — CIVIL — STRUCTURAL — STATE OF CALIFORNIA

LICENSE EXPIRES 6-30

ARCHITECT

CHANGE ORDER

CHECKED BY

AURORA MODULAR INDUSTRIES
16533 Kramaria Ave., Riverside, CA. 92504
Phone (909) 789-7196
Fax (909) 789-0283

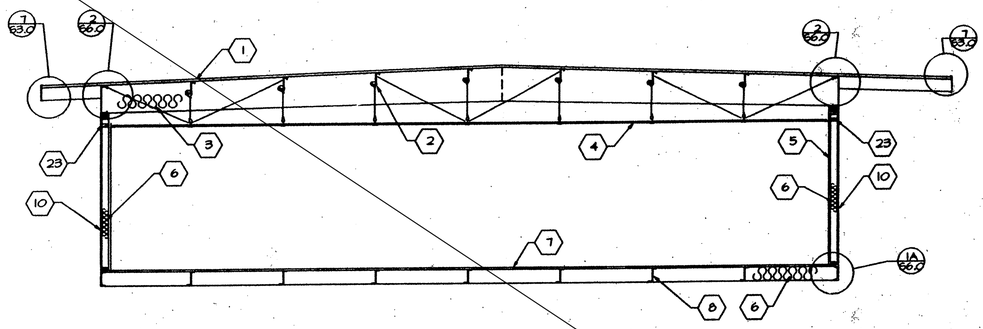
BUILDING SECTIONS
WALL FRAMING
GABLE ROOF
WOOD STUDS
(24x40)

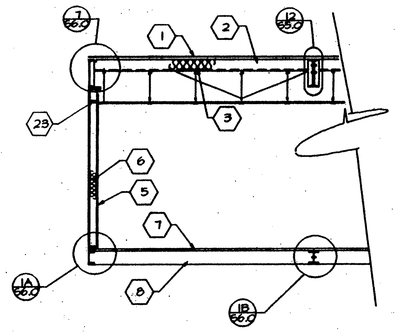
BY: RF DATE: 10-11-00

SHEET
S1.0

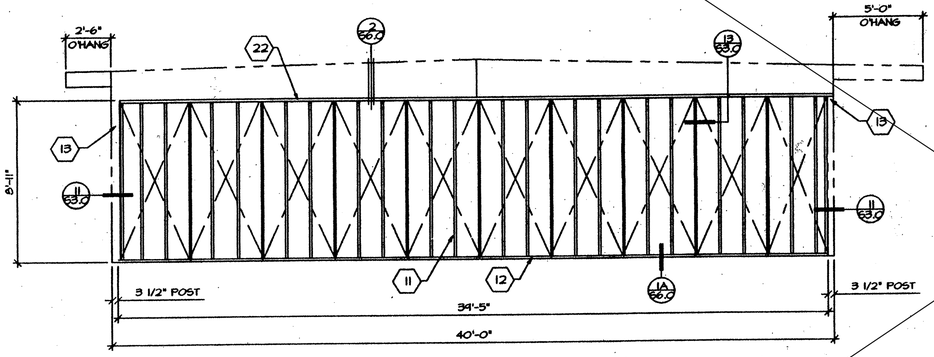
4504 C.A.D. FILE NO.

RELO-S1.0



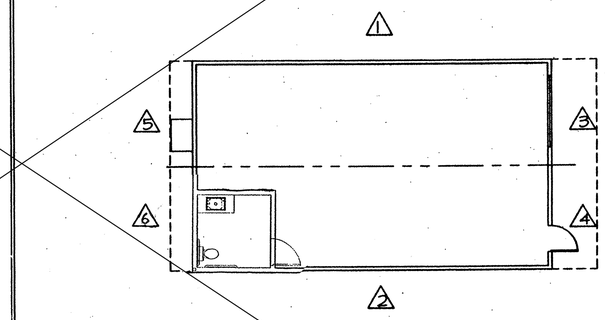


BUILDING SECTIONS
SCALE: 1/4" = 1'-0"

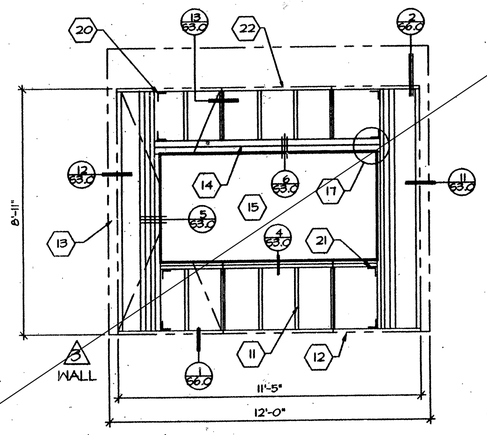


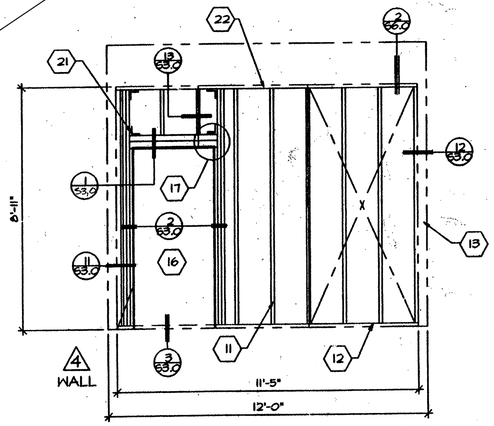
WALL ⚠2 SHOWN
WALL ⚠1 OPP. HAND

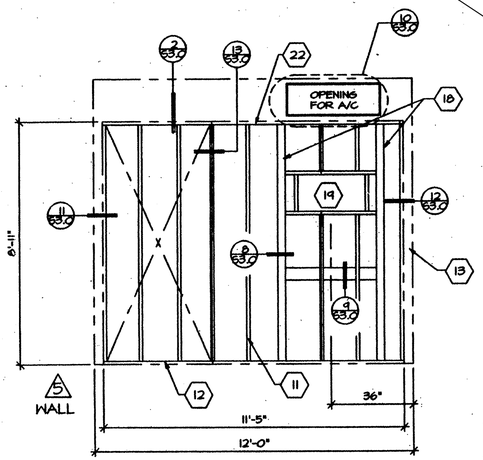
TYPICAL SIDEWALL
SCALE: 1/4" = 1'-0"

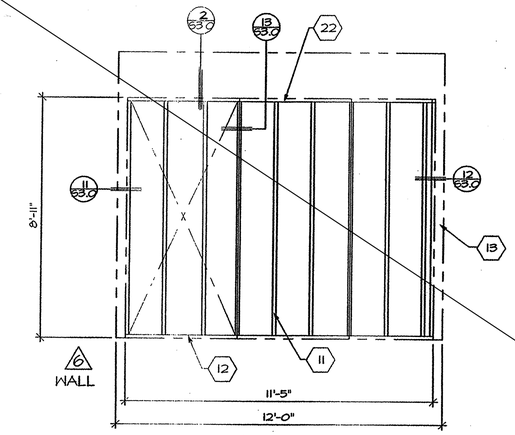


WALL LOCATIONS
SCALE: 1/8"=1'-0"









TYPICAL ENDWALLS
SCALE 3/8"=1'-0"

KEYNOTES

1 ROOF SHEATHING- SEE SHEET 9.1

2 STEEL ROOF JOIST- SEE SHEET S4.0

3 R-19 FIBERGLASS INSULATION ON METAL STRAPS.

4 SUSPENDED CEILING- SEE SHEET A5.0

5 TYPICAL INTERIOR FINISH- SEE SHEET 9.1

6 R-11 FIBERGLASS INSULATION.

7 PLYWOOD FLOOR SHEATHING- SEE SHEET S4.0

8 STEEL FLOOR JOIST- SEE SHEET S4.0

9 NOT USED

10 PLYWOOD SIDING/SHEATHING- SEE SHEET 9.0 FOR MATERIAL. NAIL SIDING WITH CORROSION RESISTANT 8d BOX NAILS @ 6" BOUNDARY & EDGES, 12" FIELD.

11 STUDS- 2x4 H.F. STUD GRADE @ 16" O.C.

12 BOTTOM PLATE- 2x4 H.F. STUD GRD. & BETTER.

13 STEEL FRAME- SEE SHEET S4.0 "STRUCTURAL ELEVATIONS" FOR MEMBER TYPES AND SIZES.

14 WINDOW HEADER- (2) 2x4 H.F. STUD GRD. FLAT.

15 FRAME FOR 8'-0"x 4'-0", WINDOW. USE (3) FULL HEIGHT HEM FIR 2x4 STUDS W/ 1 2x4 TRIMMER BOTH SIDES AND (2) 2x4 FLAT FOR WINDOW SILL. USE (4) FULL HEIGHT STUDS AT 80 MPH W/ STUCCO.

16 FRAME FOR 3'-0"x 6'-8" DOOR. USE (2) FULL HEIGHT 2x4 JAMB STUDS WITH (1) 2x4 TRIMMER BOTH SIDES, & (2) 2x4 FOR HEADER. SEE DETAIL 1 SHEET S9.0

17 NAIL THRU VERTICAL STUD INTO HORZ. HEAD OR SILL W/ MIN. (4) 16d NAILS PER CONNECTION. TYPICAL AT CORNERS OF ALL OPENINGS.

18 4x4 H.F. POST

19 SEE SHEET 9.1 FOR A/C SIZE AND TONAGE. OR mechanical plan.

20 'SIMPSON' A35 CLIPS (4) PLACES TO TOP AND BOTTOM PLATES.

21 'SIMPSON' A35 CLIPS (4) PLACES TO WINDOW SILL AND HEADER OR (2) PLACES TO DOOR HEADER.

22 2x4 PLATE- H.F. STANDARD OR BETTER.

23 FIRE BLOCKING PER SEC. 708, 1994 C.B.C.

D.S.A.

D.S.A.

NOV 16 2000

STRUCT. ENGINEER

REGISTERED PROFESSIONAL ENGINEER — JOHN S. SHAW — No. 38621 — STRUCTURAL — STATE OF CALIFORNIA

LICENSE EXPIRES 6-30 2002

ARCHITECT

CHANGE ORDER

CHECKED BY

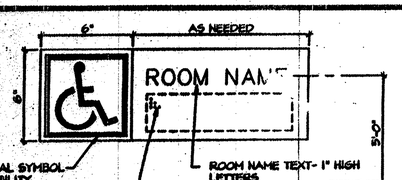
AURORA MODULAR INDUSTRIES
16833 Krameria Ave., Riverside, CA. 92504
Phone (909) 789-7186
Fax (909) 789-0283

BUILDING SECTIONS
WALL FRAMING
GABLE ROOF
WOOD STUDS
(24x40)

BY M.C. DATE 11/12/2000

SHEET S1.1

4509 C.A.D. FILE NO.



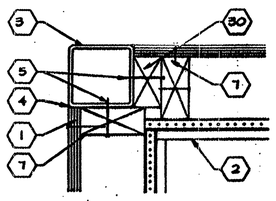
NOTE: HANDICAP ROOM SIGN SUPPLIED BY OTHERS.

NOTE: PROVIDE ONE SIGN WHERE INDICATED ON PLANS. LOCATE SIGN MAX. 12" AWAY FROM DOORS STRIKE SIDE.

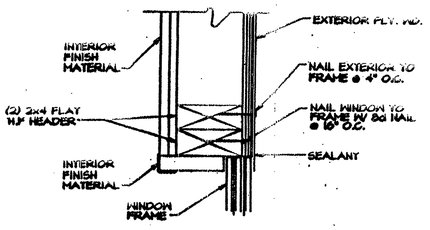
NOTE: SIGN MATERIAL TO BE 1/8" THICK ES PLASTIC, W/ 1/32" RAISED BORDER, GRAPHICS AND LETTERS. PROVIDE MECH. MOUNTING W/ VANDAL RESISTANT FASTENERS.

HANDICAP ROOM SIGN (N.I.C.) 16

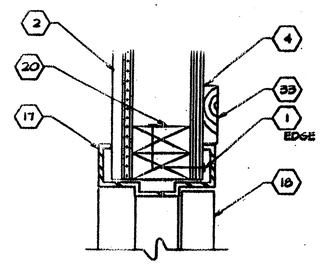
TO BE BLUE BACKGROUND W/ WHITE LETTERS



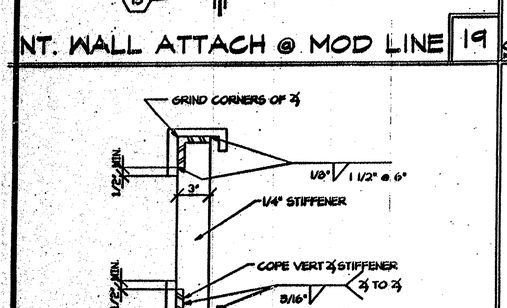
COLUMN AT CORNER 11



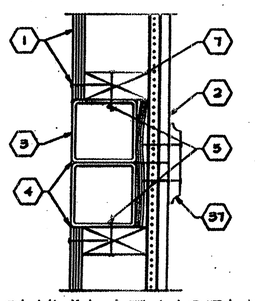
WINDOW HEADER 6



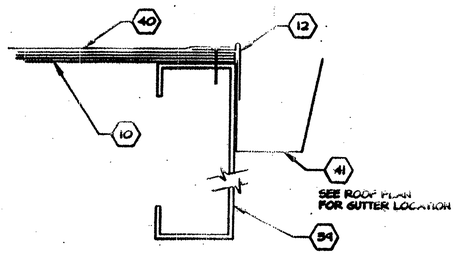
DOOR HEAD 1



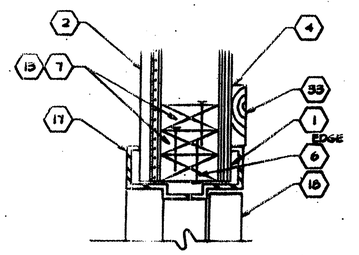
INTERIOR WALL ATTACHMENT 17



COLUMN AT MODLINE 12



FASCIA 7



DOOR JAMB 2

INTERIOR WALL ATTACHMENT 18

PANEL JOINT 13

A/C @ SIDE 8

THRESHOLD 3

NT. WALL ATTACH @ MOD LINE 19

SOFFIT @ O'HANG (OPTIONAL) 14

A/C @ BOTTOM 9

WINDOW SILL 4

NOTE: WHEN BUILDING WIND LOAD IS 80 MPH USE D.F. #2 WOOD MEMBERS.

A/C OPENING IN HEADER 20

A/C OPENING IN HEADER 15

A/C OPENING IN HEADER 10

WINDOW JAMB 5

KEYNOTES

CBC 1998

PC

1. EXTERIOR PLYWOOD SIDING/SHEATHING - NAIL W/ CORROSION RESISTANT 8d BOX NAILS @ 6" O.C. BOUNDARY & EDGES, AND 12" O.C. FIELD. WITH MOISTURE BARRIER SEE SHEET 4.0 FOR MATERIAL.
2. TYPICAL INTERIOR FINISH - SEE SHEET 4.1 FOR MATERIAL
3. STEEL TUBE COLUMN - SEE SHEET S4.0 OR S4.1
4. SEALANT
5. "HILTI DN5T-P8 OR RAMSET 1514 SD @ 24" O.C.
6. 2x4 TRIMMER
7. 2x4 FULL HEIGHT STUDS
8. 2x4 TOP PLATE
9. 2x4 BOTTOM PLATE
10. ROOF SHEATHING - SEE SHEET S4.0 OR S4.1
11. FLOOR SHEATHING - SEE SHEET S4.0 OR S4.1
12. GALVANIZED METAL FLASHING
13. 16d BOX NAILS @ 16" O.C.
14. NOT USED
15. STEEL FLOOR CHANNEL - SEE SHEET S4.0 OR S4.1
16. STEEL JOIST - SEE SHEET S4.0 OR S4.1
17. HOLLOW METAL DOOR FRAME
18. METAL DOOR
19. MOISTURE BARRIER
20. HEADER - (2) 2x4 H.F. SYP GRD. FLAT
21. DOOR BOTTOM WITH WEATHER STRIP
22. ALUMINUM THRESHOLD
23. WALL MOUNTED A/C
24. 4x4 H.F. & BETTER POST
25. 2x6 BLOCK BETWEEN STUDS. ATTACH TO STUDS W/ (2) 16d BOX NAILS EACH END OF BLOCKS INTO STUD
26. NOT USED.
27. 11 6d x 24" LONG STEEL BOTTOM BRACKET
28. NOT USED.
29. 5/8" DIA. x 2-1/2" LAG BOLTS, QNTY AS INDICATED BY PRE DRILLED HOLES ON UNIT.
30. 3/4" x SPACER
31. NOT USED
32. NOT USED
33. 1x4 TRIM
34. NOT USED
35. NOT USED
36. NOT USED
37. VINYL WRAPPED CLOSE OFF BATT. ATTACH W/ 8d FINISH NAILS @ 10" O.C. (2) @ TOP, & BTM.
38. NOT USED
39. 10"x10Ga. HEADER @ PERIM. OF OVERHANG.
40. ROOFING-SEE SHEET 4.1
41. 26 Ga GUTTER - SEE ROOF PLAN FOR LOCATION

D.S.A.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES

04 - 101055

AC DSA

DATE JAN 29 1999

D.S.A.

NOV 1 8 2005

STRUCT. ENGINEER

REGISTERED PROFESSIONAL ENGINEER ROBERT L. SILBERSTEIN No. 38081 STRUCTURAL STATE OF CALIFORNIA

LICENSE EXPIRES 6-30-2007

ARCHITECT

CHANGE ORDER

CHECKED BY

AURORA MODULAR INDUSTRIES
16833 Kramer Ave., Riverside, CA. 92504
Phone (909) 780-7196
Fax (909) 780-0283

RELOCATABLE BUILDING FOR:
STOCKPILE
WILLIAMS / SCOTSMAN

TYPICAL DETAILS
PLY'WD EXTERIOR
(WOOD STUDS)

BY AH DATE 10-11-20

SHEET S3.0

4504 JOB/FILE NO.

RELO-S3.0

KEYNOTES

1 STEEL ROOF DECK - 22 Ga. ROLL FORMED DECK WITH 2" STANDING SEAM. SEE NOTE 1 SHT. S6.1 FOR ATTACH

2 PLYWOOD FLOOR SHEATHING - 1 1/8" A.P.A. STURD-I-FLOOR, T & G, P.S. 1-83. SEE NOTE 2 SHT. S6.0 OR S6.2 FOR ATTACH.

3 C18/23/18x3 1/2"x10 GA.

4 C18"x3 1/2x10 Ga. RFC STEEL ROOF HEADER.

5 7"x 11 Ga. STEEL BLOCK @ 48" O.C.

6 NOT USED

7 C7"x 9.8 LB PERIMETER FLOOR FRAME.

8 6"x 14 Ga. STEEL ROOF JOIST @ 48" O.C.

9 STEEL COLUMN - 3 1/2"x3 1/2"x1/4" TUBE.

10 DOUBLE PURLINS WITH 6"x14 Ga. PURLIN BLOCKS @ ROOF MOUNTED HVAC-SEE MECHANICAL PLANS FOR EXACT SIZE AND LOCATION.

11 WELD WASHER FOR CEILING GRID - TYP. BOTH SIDES SEE DETAIL 15 SHT. S6.0 OR S6.1

12 STRAP TACKED TO UNDERSIDE OF JOIST @ 24" O.C. FOR INSULATION SUPPORT.

13 3/16" FULL HEIGHT STIFFENER AT @ 48" O.C.

14 2"x 20 Ga. STRAPS W/ 3" MIN. 1/8" FILLET WELD EACH END TO ROOF BEAM/HEADER TYP.

15 7"x 11 Ga. STEEL FLOOR JOIST @ SEE FRAMING PLAN FOR FLOOR JOIST SPACING

16 PLYWOOD ROOF SHEATHING 3/4" C-D INT WITH EXT. GLUE 48/24 INDEX P.S. 1-74 SQUARE EDGE WITH PLYWOOD CLIPS @ 16" O.C. LONG EDGES.

17 1 1/2"x1 1/2"x3/16" BRACE (SEE SHT. S5.0 DET 10)

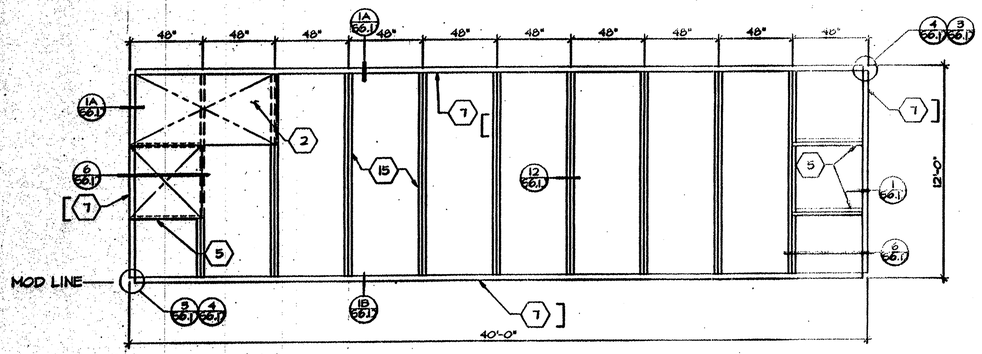
18 7"x 14 Ga. STEEL FLOOR JOIST @ 16" O.C.

19 7"x 14 Ga. STEEL BLOCK @ 48" O.C.

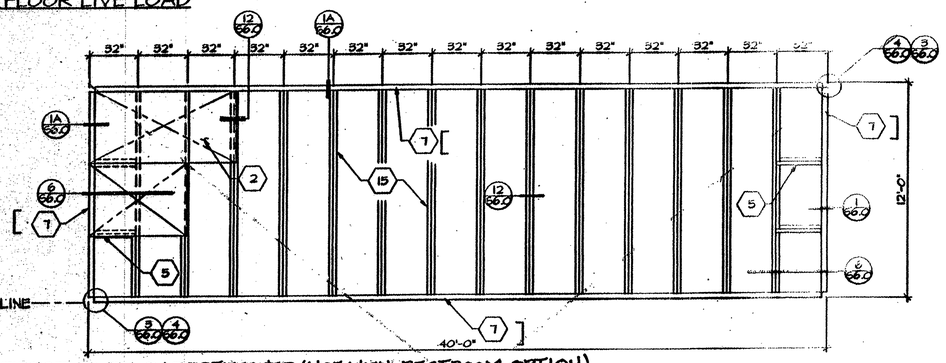
20. 4"x4"x1/4" ALT. TUBE STEEL AT BUILDINGS WITH PARAPET AND HVAC SCREEN OPTION.

CBC 1998

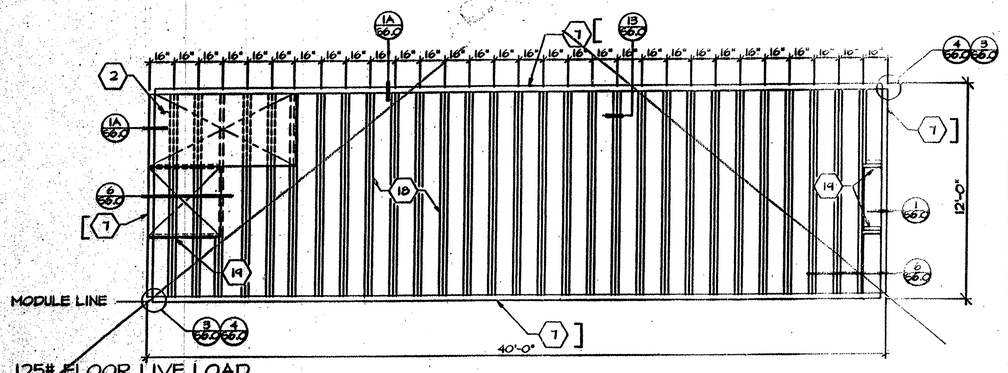
PC



50# FLOOR LIVE LOAD



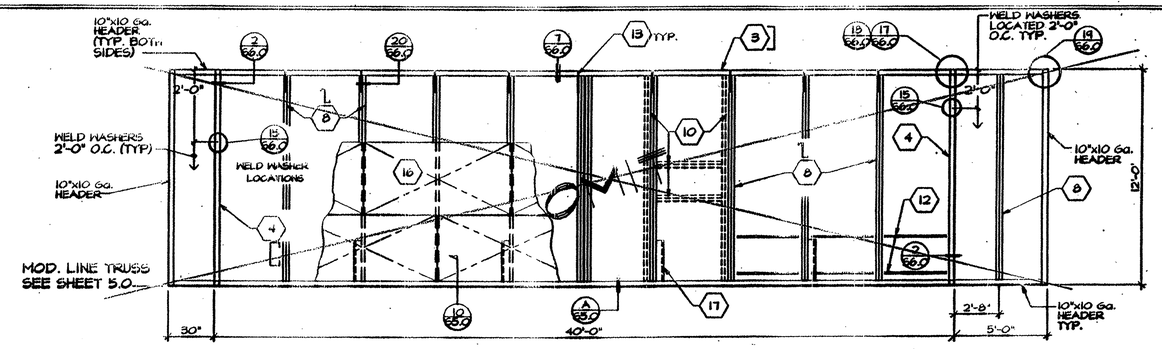
50# FLOOR LIVE LOAD-STIFFENED (USE WITH RESTROOM OPTION)



125# FLOOR LIVE LOAD

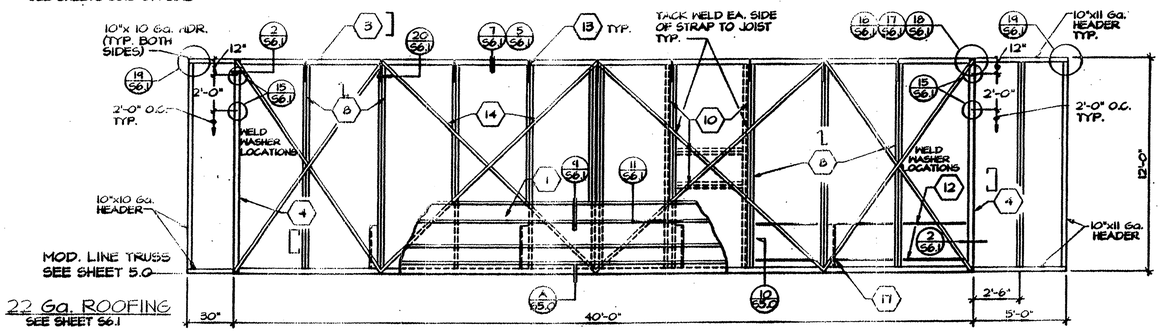
FLOOR FRAMING

SCALE 1/4" = 1'-0"



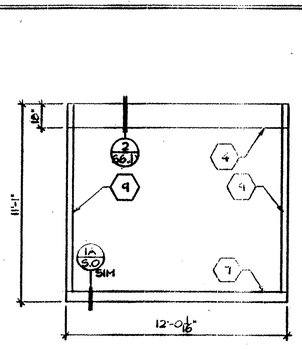
PLYWOOD DECK ROOFING

SEE SHEETS S6.0 OR S6.2

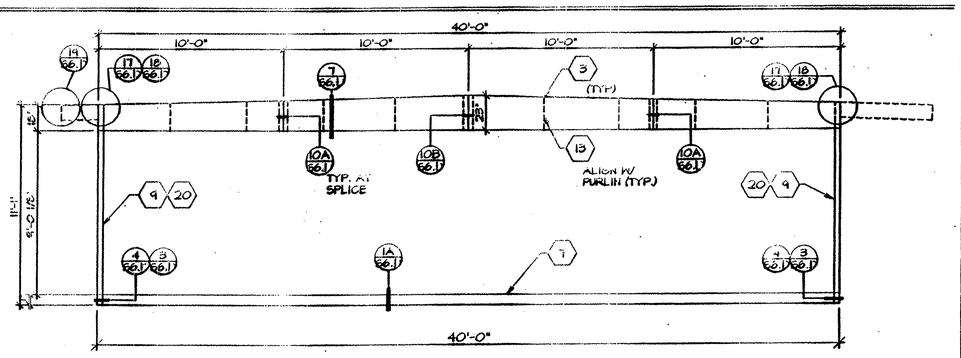


ROOF FRAMING

SCALE 1/4" = 1'-0"



TYPICAL ENDWALL



OUTSIDE ELEVATION

STRUCTURAL ELEVATION

SCALE 1/4" = 1'-0"

D.S.A.

IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT OFFICE OF THE REGULATION SERVICES

04 - 19055

AC FIA 88

DATE JUN 29 1999

D.S.A.

DATE NOV 10 2000

STRUCT. ENGINEER

REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No. 24602 CIVIL STRUCTURAL STATE OF CALIFORNIA

LICENSE EXPIRES 6-30-

ARCHITECT

CHANGE ORDER

CHECKED BY

AURORA MODULAR INDUSTRIES
16833 Kramer Ave., Riverside, Ca. 92504
Phone (909) 789-7196
Fax (909) 789-0253

RELOCATABLE BUILDING FOR:
STOCKPILE
WILLIAMS / SCOTSMAN

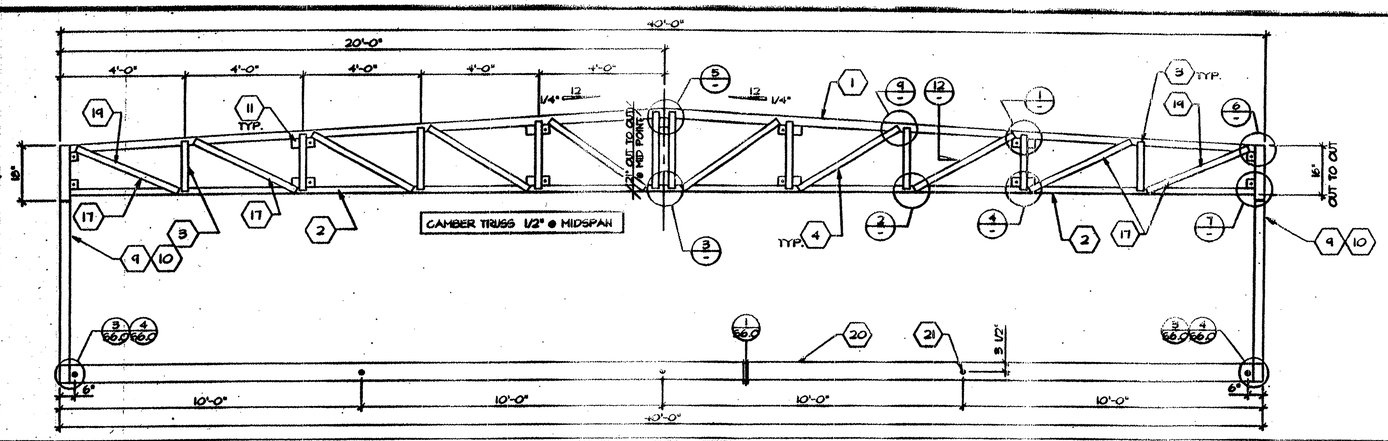
GABLE ROOF
FLOOR FRAMING,
ROOF FRAMING,
STRUCTURAL
ELEVATIONS
(70 MPH 'C')

BY AH DATE 10-11-00

SHEET
S4.0

4504 C.A.D. FILE NO.

RELO-S4.0



TRUSS ELEVATION

SCALE 3/8" = 1'-0"

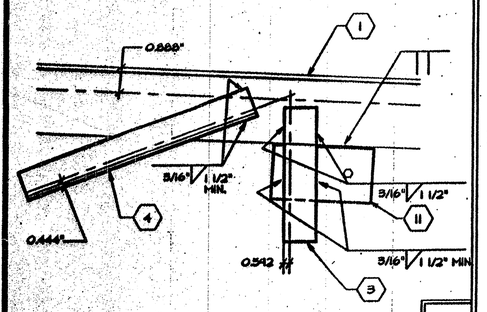
A

KEYNOTES

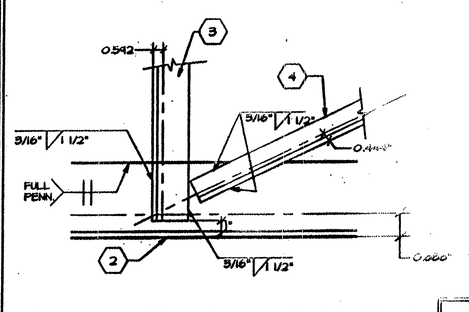
CBC 1998

PC

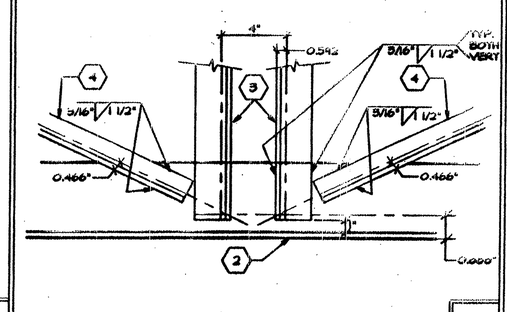
1. ⌭ 5"x3"x3/8" TOP CHORD.
2. ⌭ 5"x3"x3/8" 1/2" CHAMBER AT MIDPOINT
3. ⌭ 1 1/2"x1 1/2"x3/16" VERTICAL MEMBER
4. ⌭ 1 1/2"x 1 1/2"x 3/16" DIAGONAL MEMBER TYP.
5. NOT USED
6. NOT USED
7. 1/4" CAP PLATE
8. NOT USED
9. TS 3 1/2"x3 1/2"x1/4" STEEL TUBE
10. - TS 4" X 4" X 1/4" ALTERNATE TUBE STEEL. USE WITH PARAPET AND HVAC SCREEN OPTIONS.
11. 5/8"x8"x5 1/2" PLATE WITH 1 1/16" HOLE FOR 5/8" MACHINE BOLT LOCATE PLATES @ 5'-0" O.C. FOR MODULE CONNECTION. SEE DETAIL D.
12. 5/8" MACHINE BOLT FOR MODULE CONNECTION
13. NOT USED
14. 3 1/2 "x 3 1/2 "x 1/4 " T.S.
15. ROOF JOIST- SEE NOTE 5 SHEET S4.0
16. 1 1/2"x1 1/2"x3/16" BRACE @ 8'-0" O.C.
17. ⌭ 2"x 2"x 1/4" END DIAGONAL W/ MIN. 4" OF 5/16" FILLET WELD EACH END @ 60 °C°.
18. 5/16" PLATE FITTED INSIDE TUBE COL. & WELDED IN PLACE TO COLUM W/ 5/16" FILLET WELD TWO SIDES
19. ⌭ 1 1/2"x 1 1/2"x 3/16" DIAGONAL W/ MIN. 4" OF 3/16" FILLET WELD EA. END @ 70 °C°.
20. [7"x 9.8 LB PERIMETER FLOOR FRAME.
21. 5/8" MACHINE BOLT @ MOD. CONNECTION SEE DETAIL 18 SHEET S6.0 OR S6.1



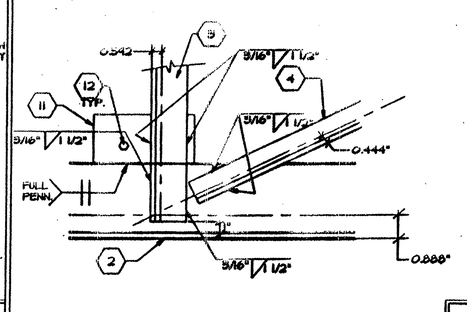
VERT. & DIAG. TOP CHORD | 1



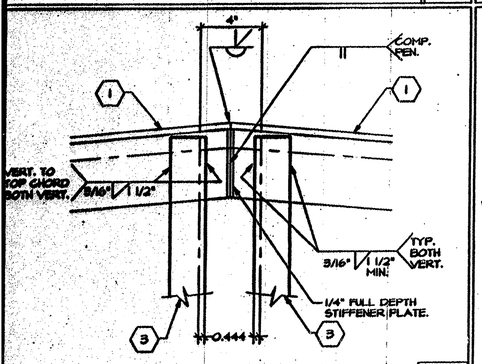
VERT & DIAG TO BOTTOM CHORD | 2



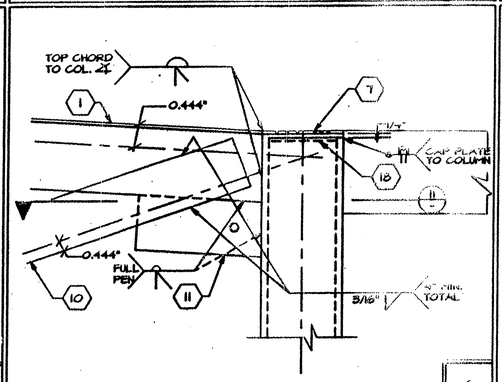
BOTTOM CHORD AT MIDSPAN | 3



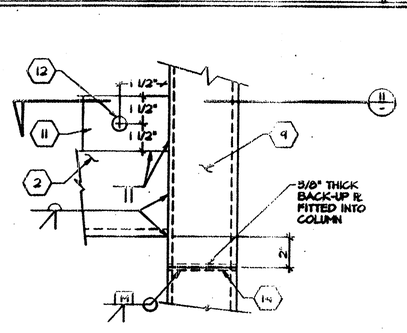
VERT & DIAG TO BOTTOM CHORD | 4



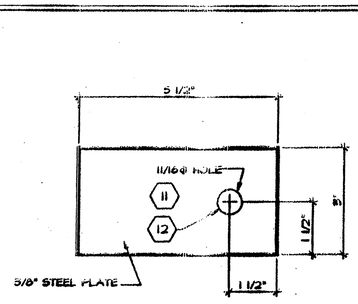
TOP CHORD AT MIDPOINT | 5



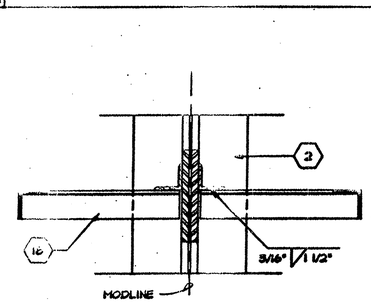
POST CONN TO TRUSS | 6



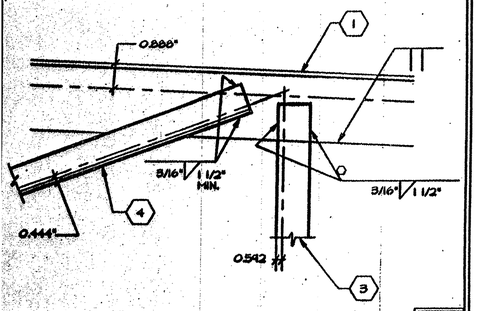
POST CONN TO TRUSS | 7



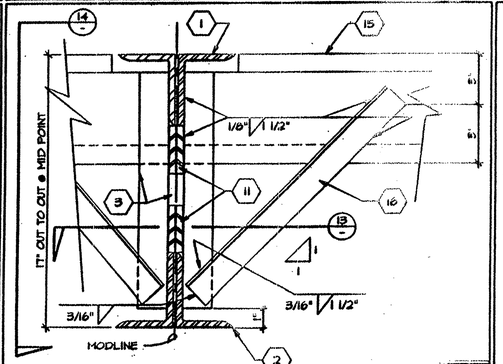
TIE PLATES | 8



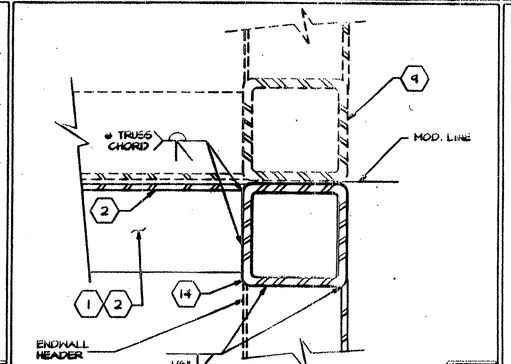
SECTION @ VERT MEMBER | 13



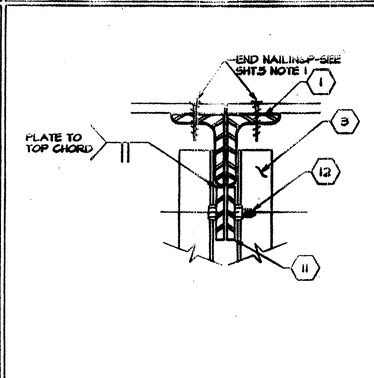
VERT. & DIAG. TOP CHORD | 9



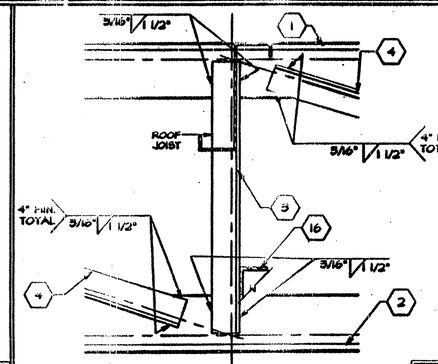
TRUSS TO ROOF JOIST BRACING | 10



MODULE CONN AT TOP/BOT. CORD | 11



MODULE CONNECTION | 12



CONN. TO VERTICAL MEMBER | 14

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IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES

04 - 101055

AC RS

DATE JUN 29 2000

D.S.A.

AC RS

DATE NOV 16 2000

STRUCT. ENGINEER

JAMES T. BUSCH No. 3982 REGISTERED PROFESSIONAL ENGINEER STRUCTURAL STATE OF CALIFORNIA

LICENSE EXPIRES 6-30-2000

ARCHITECT

CHANGE ORDER

CHECKED BY

AURORA MODULAR INDUSTRIES
16333 Krameria Ave., Riverside, CA. 92504
Phone (800) 788-7196
Fax (909) 788-0283

RELOCATABLE BUILDING FOR:
STOCKPILE
WILLIAMS / SCOTSMAN

GABLE ROOF
STEEL TRUSS
SECTION AND
DETAILS

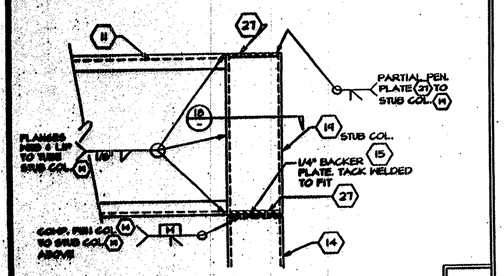
BY AH DATE 10-11-00

SHEET

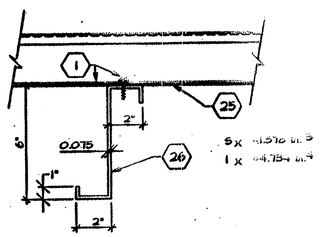
S5.0

4504 JOB NO.

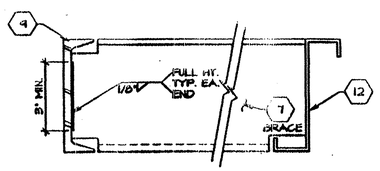
RELO-S5.0



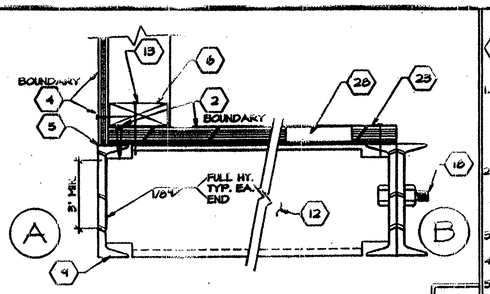
POST CONN. AT ROOF — 16



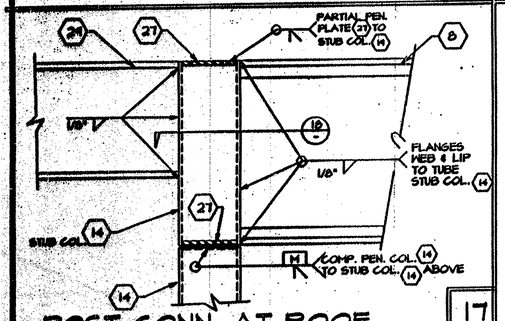
ROOF JOIST — 11



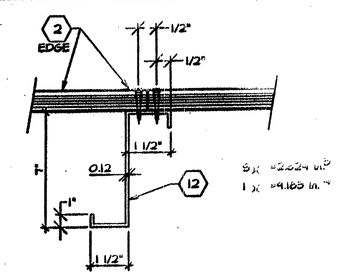
BRACE AT FLOOR — 6



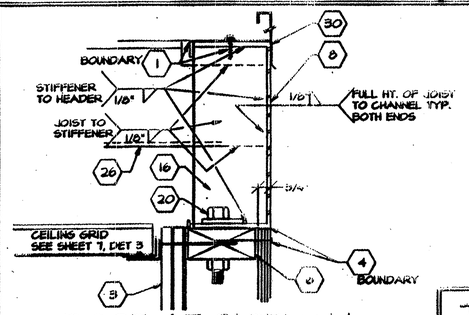
PERIMETER FLOOR — 1



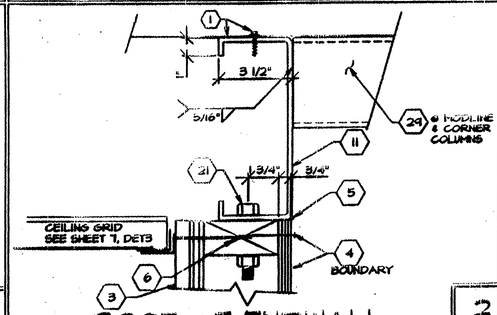
POST CONN. AT ROOF — 17



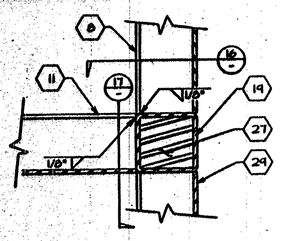
FLOOR JOIST — 12



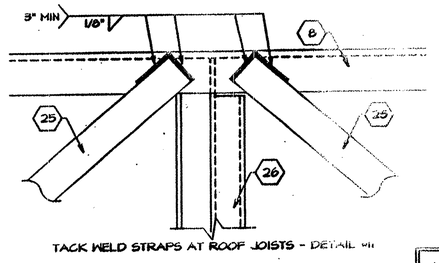
ROOF AT SIDEWALL — 7



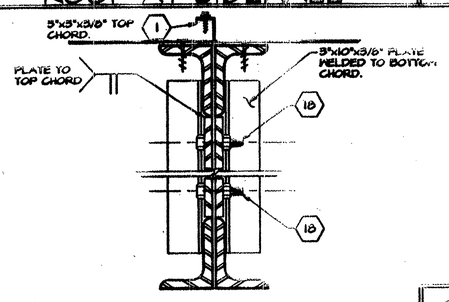
ROOF AT ENDWALL — 2



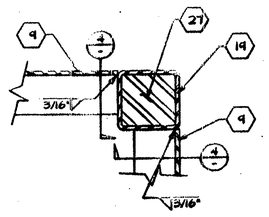
POST CONN. AT ROOF — 18



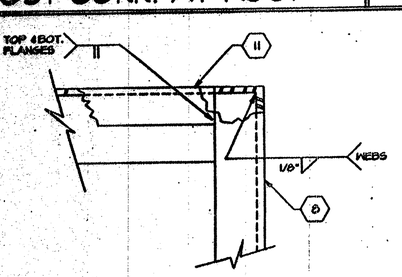
20 Ga. STRAP @ RF. BEAM — 13



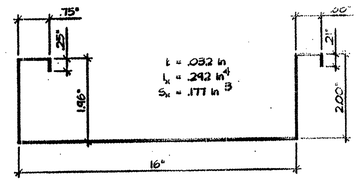
TRUSS AT MODLINE — 8



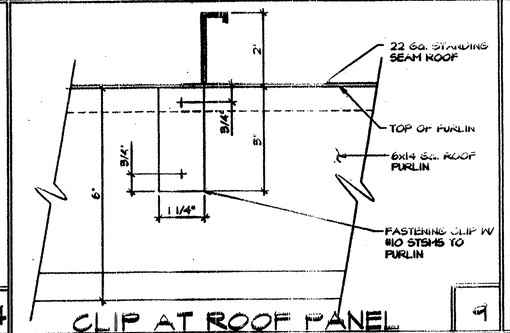
CORNER CONN. AT FLOOR — 3



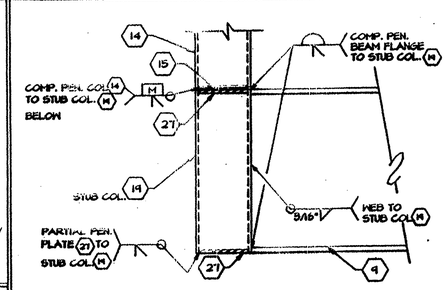
HEADER TO BEAM CONN. — 19



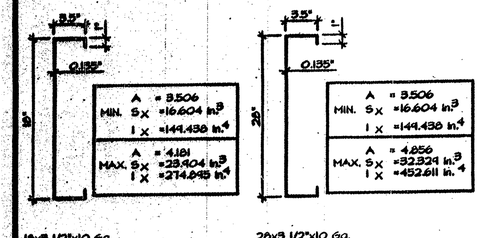
ROOF PANEL SECTION — 14



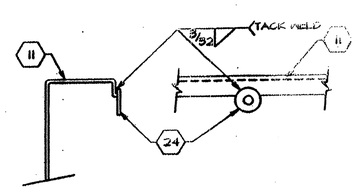
CLIP AT ROOF PANEL — 9



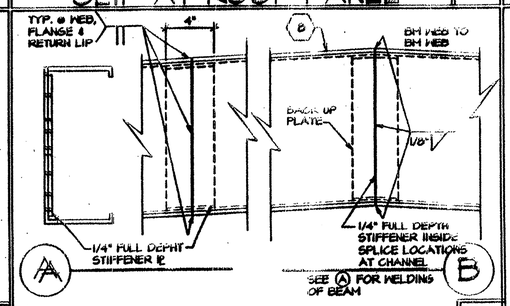
POST CONN. AT FLOOR — 4



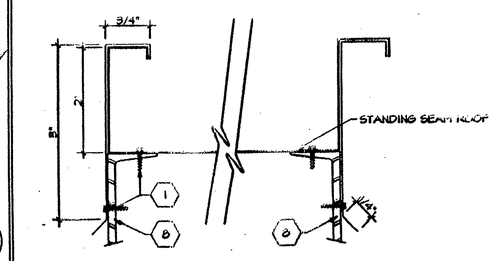
SECTION PROPERTIES — 20



WELD WASHER SUSPENDED CEILING HANGER WIRE — 15



TYPICAL BEAM SPLICE — 10



DRIP FLASHING @ SIDEWALLS — 5

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KEYNOTES

1. STEEL ROOF DECK - 22 GA. ROLL FORMED 2 1/2" STANDING SEAM ROOF DECK. USE #14 SELF TAP SCREWS @ 12" O.C. AT ROOF JOIST ((2) PER PANEL) AND #14 SELF TAP SCREWS @ 4" O.C. AT HEADERS ((3) PER PANEL) AND 24" O.C. @ OUTSIDE EDGE. (1) #14 STS @ 4'-0" O.C. AT STANDING SEAM BETWEEN JOIST.
2. PLYWOOD FLOOR SHEATHING - SEE NOTE 2 SHT. S4.0 OR S4.1. ATTACH PLYWOOD W/ #10 - 24 x 1-5/8" SELF TAP SCREWS @ 6 O.C. BOUNDARY & EDGES AND 6" O.C. FIELD. W/ FLOOR JOIST @ 48" O.C. (JOIST SPACE UNDER 48" O.C. = 10" O.C. FIELD)
3. TYPICAL INTERIOR FINISH - SEE SHEET 9.1
4. TYPICAL EXTERIOR FINISH - SEE SHEET 9.1
5. SEALANT
6. 2 x 4 TOP OR BOTTOM PLATE
7. 7"x 11 Ga. STEEL BRACE WELDED TO PERIMETER FRAME AND FLOOR JOIST.
8. 18/28/18x3 1/2"x10 Ga. CHANNEL @ GABLE ROOF & 18/28/18x3 1/2"x10 Ga. CHANNEL @ MONO SLOPE.
9. 7"x 4.8 lb PERIMETER FRAME.
10. 4"x 4"x 1/2" STIFFENER
11. GABLE ROOF: 18x3 1/2"x10 Ga. CHANNEL ROOF HDR. EA. END MONO SLOPE: 28x3 1/2"x10 Ga. CHANNEL ROOF HDR. @ FRONT AND 18x3 1/2"x10 Ga. CHANNEL ROOF HDR. @ REAR.
12. 7"x 11 Ga. FLOOR JOIST.
13. 16d NAIL @ 8" O.C.
14. STEEL COLUMN - 3 1/2"x 3 1/2"x 1/4" TUBE AT 10 'C' AND 60 'C'.
15. 1/4" CAP PLATE.
16. 3/16" FULL HEIGHT STIFFENER @ 4'-0" O.C.
17. NOT USED
18. 5/8" MACHINE BOLT @ MOMENT CONNECTION - SEE SHT. S4.0 OR S4.1 'STRUCTURAL SIDE' FOR ELEVATIONS.
19. 2 1/2"x 3 1/2"x 1/4"x 11 3/4" LONG TUBE AT ROOF @ 10 & 60 'C', 3 1/2"x 3 1/2"x 1/4"x 7" LONG TUBE AT FLOOR @ 10 & 60 'C'.
20. 1/2" MACHINE BOLT W/ WASHER @ 24" O.C. MIN.
21. 1/2" MACHINE BOLT @ 24" O.C. MIN.
22. CHANNEL FRAME - GRIND WELDS ON EXPOSED FACES SMOOTH.
23. AT MODULE JOINT TAKE PLYWOOD TO EDGE OF CHANNEL. AT PERIMETER, HOLD PLYWOOD BACK AS INDICATED.
24. WELD WASHER - 1-3/8"x 11/32" WITH 9/16" HOLE. WELD TO UPPER CHANNEL FLANGE.
25. 2"x 20 Ga. STRAPS W/ 3" MIN. OF 1/8" FILLET WELD EA. END TO ROOF BEAM.
26. 8"x 14 Ga. ROOF JOIST
27. 1/4" PLATE FITTED INSIDE TUBE COLUMN AND WELDED IN PLACE.
28. 5" DIA. HOLE AT BOLT LOCATION.
29. [10"x11 Ga. HDR. @ PERIMETER OF O'HANG
30. GALVANIZED SHEET METAL - SEE DEATIL 5

NOTE: USE 4" X 4" X 1/4" TUBE STEEL WHEN PARAPET AND HVAC OPTION

PC

D.S.A.

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04 - 101065
AS
DATE JUN 21 1999

D.S.A.

NOV 15 2000

STRUCT. ENGINEER

LICENSE EXPIRES 6-30-2002

ARCHITECT

CHANGE ORDER

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AURORA MODULAR INDUSTRIES
16833 Kramerla Ave., Riverside, CA. 92504
Phone (909) 780-7196
Fax (909) 780-0253

RELOCATABLE BUILDING FOR:
STOCKPILE
WILLIAMS / SCOTSMAN

STRUCTURAL DETAILS AND NOTES (WOOD STUDS) 22 GA. ROOFING

BY AH DATE 10-11-00

SHEET S6.1

4504 JOB NO.

RELO-S6.1

PANEL A — 120/240 VOLT — 1 PHASE — 3 WIRE

100 a BUS — 100 a MAIN

	OUTLETS recept	OUTLETS lights	OUTLETS other	WATTAGE A#	WATTAGE B#	WATTAGE C#	BREAKER amp	BREAKER pole	REMARKS
1	9	—		540	—		20	1	
2	—	12	EMERGENCY LIGHT	1060	—		20	1	
3	8	—		—	540		20	1	
4	—	12		—	960		20	1	
5		—	HEATPUMP	5880	—		60	2	5.5 TON HVAC
6	—			—	—				
7		—		—	5880				
8				—	—				
9	1			180	—		20	1	CLOCK OUTLET
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
TOTALS				7660	7380		= 15.04kw		62.7 amps conn.

FLA x 1.25= 78.0 amps

FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	WATTS	MANUFACTURER
	2' x 4' FLUORESCENT DROP IN FIXTURE, ACRYLIC PRISMATIC LENS, ENERGY SAVING BALLAST. (4) 40 WATT TUBES, WT. 27 lbs	160 WATTS	CRESCENT '246P440A12' OR EQUAL
HO	INCANDESCENT SURFACE MOUNTED EXTERIOR LIGHT WITH IMPACT RESISTANT ENCLOSURE	100 WATTS	KENALL '3663' OR EQUAL
Φ + 18" (UNO)	DUPLEX RECEPT - 15a 125v 3 WIRE GROUNDING TYPE.	180 WATTS	GENERAL ELECTRIC 5242-2 OR EQUAL
$ + 48"	LIGHT SWITCH - SINGLE POLE		GENERAL ELECTRIC 3401-2 OR EQUAL
J	JUNCTION BOX		
F	DISCONNECT SWITCH -BUILT INTO A/C UNIT		
T + 48"	THERMOSTAT		WHITE ROGERS
+ 48"	FIRE ALARM PULL STATION (J-BOX ONLY)		
+ 8'-6" (H.P.)	FIRE ALARM HORN (J-BOX ONLY) (H.P. - INDICATES WEATHERPROOF)		
ELEC.	ELEC. PANEL		SQ'D OR EQUAL
C	ELEC. CLOCK 6" BELOW CEILING LINE		WESTCLOX 704 OR EQUAL
EXIT	EXIT SIGN W/ BATTERY BACK-UP EMERGENCY LIGHTING MOUNTED ABOVE DOOR		
W + 80"	VISUAL WARNING DEVICE -60 FLASHES PER MINUTE. (J-BOX ONLY)		
SD	CEILING MOUNTED SMOKE DETECTOR @ 15'-0" FROM SIDEWALL & 10'-0" FROM ENDWALL. (J-BOX ONLY)		
HD	ATTIC HEAT DETECTOR (J-BOX ONLY)		

LIGHTING AND POWER PLAN
SCALE: 1/4" = 1'-0"

'A' UNIT SHOWN
'B' UNIT OPP. HAND

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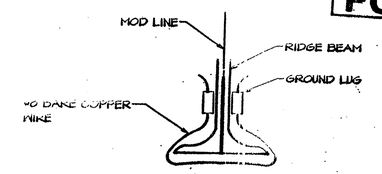
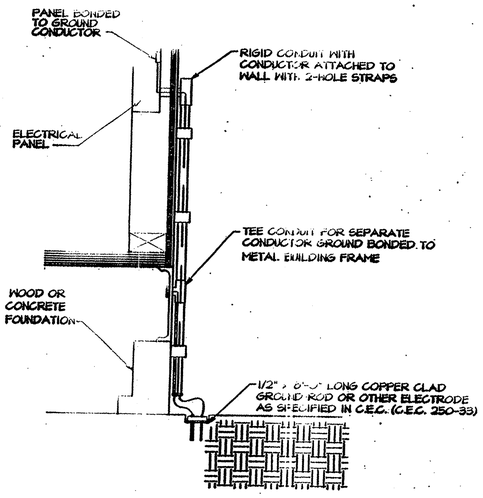


MODULE BONDING



SYSTEM GROUND DETAIL
NOT BY PORTABLE MANUFACTURER

1 SIZE OF CONDUCTORS SHALL COMPLY WITH CEC TABLE 250-95.

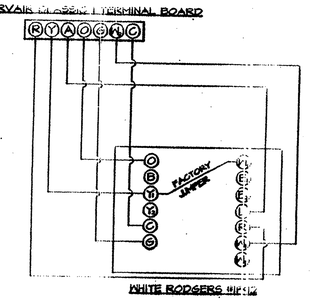
2 BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO METAL BUILDING FRAME (CEC 250-81). IN ADDITION TO THE DETAIL SHOWN ABOVE, BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10 FT. INTO THE SOIL IF AVAILABLE. (CEC 250-81 & 250-83).

3 ALL MODULES OF THE METAL FRAME BUILDING SHALL BE ELECTRICALLY 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(c)) AS REQUIRED, WITH CONDUCTORS, AS SHOWN, SEPARATED BY AT LEAST 6'-0" UNTIL RESISTANCE IS 25 OHMS OR LESS.

5 FIELD INSPECTOR SHALL WITNESS AND VERIFY THE GROUNDING TEST.

MARVAIR CLASS I TERMINAL BOARD



A/C CONTROL WIRING

D.S.A.
IDENTIFICATION STAMP
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OFFICE OF REGULATION SERVICES
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ACCESS FILE OK
DATE JUN 29 1998

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DATE NOV-1-6 2000

STRUCT. ENGINEER
GEORGE REED PROFESSIONAL ENGINEERS
No. 3602
STRUCTURAL
STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-2002

ARCHITECT

CHANGE ORDER

CHECKED BY

AURORA MODULAR INDUSTRIES
16833 Krameria Ave., Riverside, CA. 92504
Phone (909) 789-7196
Fax (909) 789-0263

ELECTRICAL, POWER & LIGHTING FLOOR PLAN & PANEL SCHEDULE

BY — DATE

SHEET E1.0

4504 C.A.D. FILE NO.

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RELO-E1.0

PANEL A | 120/240 VOLT | 1 PHASE | 3 WIRE

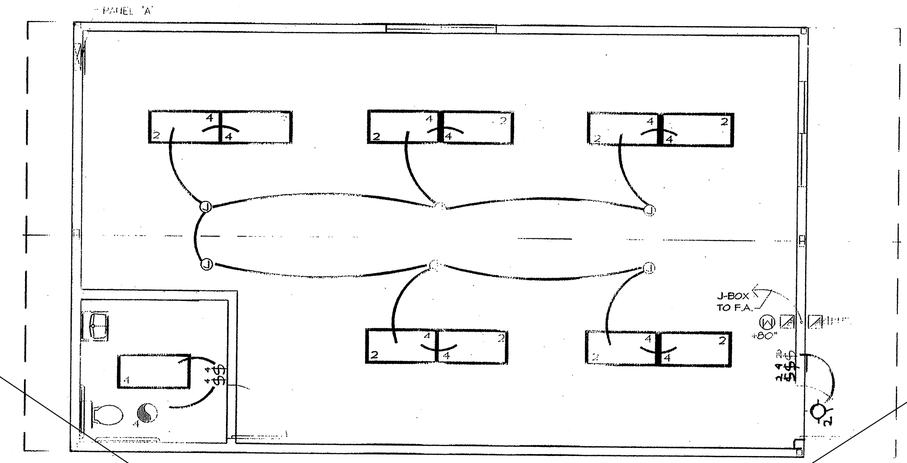
100 a BUS | 100 a MAIN

	OUTLETS recpt	lights	other	WATTAGE A#	B#	C#	BREAKER amp	pole	REMARKS
1	4	—		720	—		20	1	
2	—	10	EXTERIOR LIGHT	1700	—		20	1	
3	4	—	clock	—	720		20	1	
4	—	11		—	1760		20	1	
5			HEATPUMP	5880	—		60	2	3.5 TON HVAC
6									
7				—	5880				
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
TOTALS				8300	8360		= 16,660 (.001) = 16.66 kw		

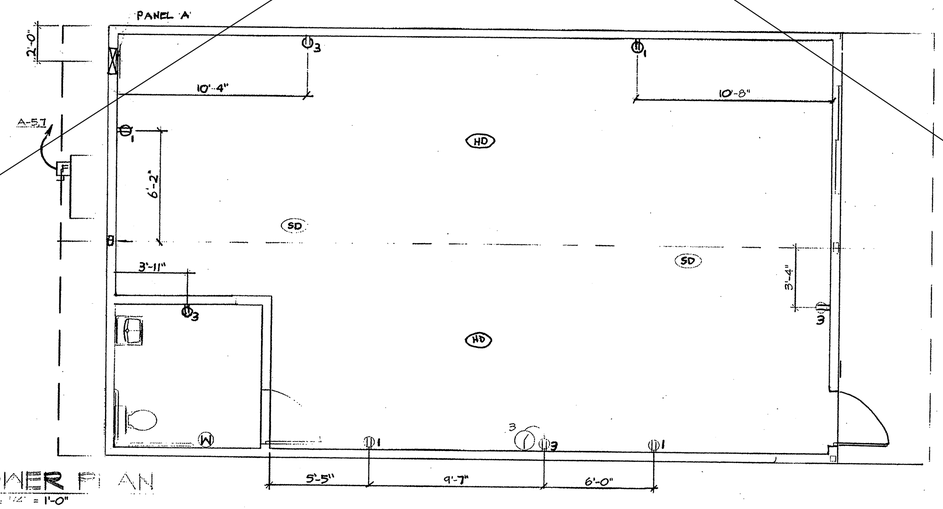
16.7 (4.17) = 69.6 amps

FIXTURE SCHEDULE

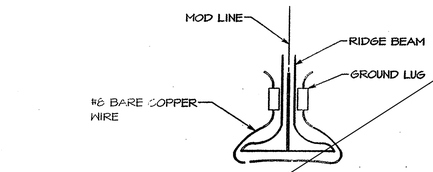
SYMBOL	DESCRIPTION	WATTS	MANUFACTURER
	2' x 4' FLUORESCENT DROP IN FIXTURE. ACRYLIC PRISMATIC LENS, ENERGY SAVING BALLAST. 40 WATT TUBES	160 WATTS	CRESCENT 2464P40012 OR EQUAL
	INCANDESCENT SURFACE MOUNTED EXTERIOR LIGHT WITH IMPACT RESISTANT ENCLOSURE	100 WATTS	E917 HARRIS 300 CD 2TPL ELCTRLEX
+ 18" (U.N.O.)	DUPLEX RECEPT - 15a 125v 3 WIRE GROUNDING TYPE.	180 WATTS	GENERAL ELECTRIC 5242-2 OR EQUAL
+ 48"	LIGHT SWITCH - SINGLE POLE		GENERAL ELECTRIC 5901-2 OR EQUAL
	JUNCTION BOX		
F	DISCONNECT SWITCH -BUILT INTO A/C UNIT A/C TO BE CONTROLLED BY OCCUPANCY SENSORS		
T + 48"	THERMOSTAT- SEE MECHANICAL DRAWINGS		WHITE ROGERS
+ 48"	FIRE ALARM PULL STATION (J-BOX ONLY)		
+ 8'-6" (M.P.)	FIRE ALARM HORN (J-BOX ONLY) (M.P. - INDICATES WEATHERPROOF)		
	ELEC. PANEL		SQD OR EQUAL
	ELEC. CLOCK 6" BELOW CEILING LINE		WESTCLOX 709 OR EQUAL
EXIT	EXIT SIGN W/ BATTERY BACK-UP EMERGENCY LIGHTING MOUNTED ABOVE DOOR		
W + 80"	VISUAL WARNING DEVICE -60 FLASHES PER MINUTE. (J-BOX ONLY)		
SD	CEILING MOUNTED SMOKE DETECTOR @ 15'-0" FROM SIDEWALL & 10'-0" FROM ENDWALL. (J-BOX ONLY)		
HD	ATTIC HEAT DETECTOR (J-BOX ONLY)		
	EXHAUST FAN	120 WATTS	BROAN 676



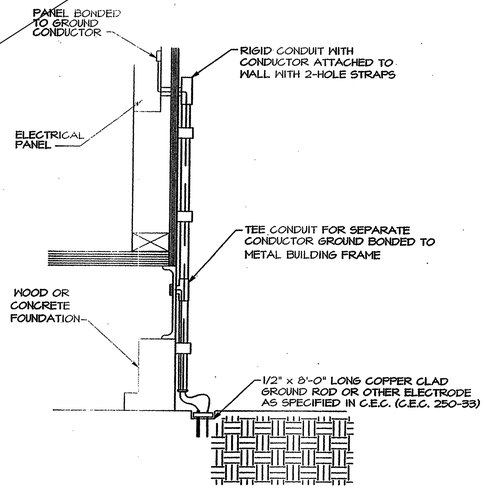
LIGHTING PLAN
SCALE: 1/4" = 1'-0"



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



MODULE BONDING



SYSTEM GROUND DETAIL

NOT BY PORTABLE MANUFACTURER

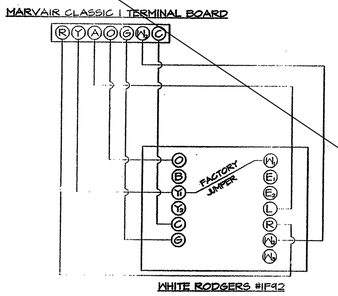
1 SIZE OF CONDUCTORS SHALL COMPLY WITH CEC TABLE 250-95.

2 BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO METAL BUILDING FRAME (CEC 250-81). IN ADDITION TO THE DETAIL SHOWN ABOVE, BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10 FT. INTO THE SOIL IF AVAILABLE. (CEC 250-81 & 250-83).

3 ALL MODULES OF THE METAL FRAME BUILDING SHALL BE ELECTRICALLY BONDED TOGETHER. (BOLTING ONLY IS NOT ACCEPTABLE BONDING.)

4 CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS (CEC 250-84C) AS REQUIRED. WITH CONDUCTORS, AS SHOWN, SEPARATED BY AT LEAST 6'-0" UNTIL RESISTANCE IS 25 OHMS OR LESS.

5 FIELD INSPECTOR SHALL WITNESS AND VERIFY THE GROUNDING TEST.



A/C CONTROL WIRING

D.S.A.

APPROVED
NOV 16 2001

D.S.A.

STRUCT. ENGINEER

PROFESSIONAL ENGINEER
No. 3602
CIVIL
STATE OF CALIFORNIA

LICENSE EXPIRES 6-30-2004

ARCHITECT

CHANGE ORDER

CHECKED BY

16833 Kramer Ave., Riverside, CA. 92504
Phone (909) 780-7196
Fax (909) 780-0263

AURORA MODULAR INDUSTRIES

RELOCATABLE CLASSROOM BUILDINGS FOR:

WILLIAMS/SCOTSMAN
STOCKPILE

LIGHTING & ELECTRICAL POWER, PLAN & PANEL SCHEDULE W/ RESTROOM

BY M.C. | DATE 11/12/2000

SHEET E1

4504 C.A.D. FILE NO.

RELO-E1.1

GENERAL NOTES AND SPECIFICATIONS

SECTION 1A

1. GENERAL

A. The requirements of the General Conditions of the agreement and this General Requirements apply to the several trade sections with the same force as though fully repeated in each trade section.

B. Name brands are indicated to establish a standard of quality. Items of equal or better quality may be substituted for the listed brand named products.

C. All work shall comply with the requirements of Titles 19, and 24 California Code of Regulations. No changes shall be made from D.S.A. approved drawings or specifications without prior written approval of D.S.A. and the District Architect.

2. SCOPE OF WORK

A. The work consists of manufacturing off-site in a plant, and installing on-site, modular relocatable buildings as defined herein and shown and detailed on drawings.

B. All requirements of Titles 19, and 24 of the State of California Code of Regulations (C.C.R.) relating to inspections and verified reports shall be complied with and shall include:

1. General responsible charge of Field Administration by the Architect of Record.
2. Inspection in-plant during the course of construction by an inspector approved by the Division of the State Architect and the District Architect. The inspector shall be responsible for and approved to inspect the general construction welding, mechanical and electrical work. Cost of these inspections shall be borne by the School District.
3. On site inspection of the building installation electrical and utility of the building installation by an inspector approved by the Division of the State Architect and retained by the School District.
4. Other special tests or inspections as may be required by the Division of the State Architect.

3. WORK NOT INCLUDED

A. All on-site or off-site utilities and the connection of them to the building unless indicated on the drawings.

B. All leveling, grading or other site preparation except concrete or wood leveling strips, where required, unless otherwise indicated on the drawings.

C. Fire alarm system, fire extinguisher, program bell, clock, public address system, intercom system, TV system unless otherwise indicated on the drawings.

4. WHEELS AND HITCH

Shall remain the property of the Contractor.

5. ACCESSIBILITY TO SITE

The School District shall provide access to the site for the installation of buildings. Removal of trees, shrubs, fencing, sprinklers, etc. necessary for the move-in of buildings shall be the responsibility of the School District.

6. GENERAL CONSTRUCTION

A. Structural Frame – Each module shall be designed as a moment frame structure to withstand vertical and horizontal loads and comply with requirements of the Division of the State Architect. The necessary provisions are incorporated in the structure to permit the relocation of the structural frame in sections not exceeding 12 feet in width.

B. Floor – The floor shall be steel framed with a design live load of 50 lbs per square foot unless noted otherwise on drawings.

SECTION 3A CAST IN PLACE CONCRETE

1. SCOPE OF WORK

A. Contractor shall provide all materials, labor and services for concrete work indicated on drawings.

2. MATERIALS

A. Portland Cement – Type 1, standard brand, ASTM C-150

B. Aggregate – Washed sand, gravel, rock ASTM C-33

C. Reinforcing steel – ASTM A615 grade 40, deformed, ASTM-305.

3. WORKMANSHIP

A. Minimum compressive strength at 28 days – 3000 psi; maximum aggregate size 1"; maximum 6.1 gallons of water per sack of cement; minimum of 7.0 sacks of cement per yard; maximum slump 4". Transit mixed concrete shall be used.

SECTION 5A STRUCTURAL AND MISC. STEEL

1. SCOPE OF WORK

Contractor shall provide all materials, labor and as specified and indicated on the drawings. services required for structural and miscellaneous steel

2. MATERIALS

A. Structural Steel Shapes – ASTM A-36, open hearth or electric furnace only, all regular shapes as described in AISC Construction Manual, unless otherwise noted.

B. Cold Formed Light Gauge Steel – ASTM A-570 Grade 33, minimum yield 33,000 PSI.

C. Structural Pipe and Tubing – ASTM AK-500 Grade B

D. Bolt Material – Bolts and nuts, American Standard Regular, as detailed in AISC Construction Manual, fabricated from structural quality steel, ASTM A-307.

E. Arc-welding Electrodes – Class E-70 Series for welding A-36 steel to A-36 and E-60 Series for welding A-570 steel to A-36, conforming to requirements of the "Structural Welding Code" of American Welding Society, latest edition.

3. WORKMANSHIP

A. GENERAL – All work shall conform to the requirements of AISC Standard Specifications, Titles 21 and 24 of the California Code of Regulations and the American Iron and Steel Institute Specifications for Design of Light Gauge Steel Structural Members.

B. WELDING – All welding done by shielded electric-arc or flux cored-arc process complying with requirements of the "Structural Welding Code" of the American Welding Society. Welding done by operators qualified by tests acceptable to the Division of the State Architect.

C. ERECTION – Structural Steel erected true, straight, plumb and to its designated locations. Field connections bolted or welded as indicated on the drawings.

D. NAILS, BOLTS, SCREWS, NUTS, etc. – for exterior work shall be cadmium plated or galvanized.

E. HANDRAILS – Fabricated as detailed, welds ground smooth.

F. SHOP PAINT –

1. Exposed steel coated with one shop coat
2. Non-exposed steel coated with one shop coat
3. All surfaces thoroughly cleaned by effective means prior to application of shop coats.

G. TESTS –

1. Provide mill certificates or test all members:
2. Welds shall be inspected and/or tested per T-24 Section 2212A.5

SECTION 6A CARPENTRY

1. SCOPE OF WORK

Contractor shall provide all labor, materials and services to install carpentry.

2. MATERIALS

Lumber grade marked in accordance with "Standard grading and Dressing Rule No. 16" of West Coast Lumber Inspection Bureau or "Grading Rules for Western Lumber, 3rd Edition" of Western Wood Products Association. Plywood grade marked in accordance with "Product Standard PS 1-83 for Softwood Plywood" of American Plywood Association, complying with UBC Standard 25-9.

A. HEADERS, – Hem Fir Stud Grade or better.
B. PLATES – Hem Fir Std. Grade or better.
C. BLOCKING – Hem Fir Stud Grade or better.
D. SILLS AND LUMBER IN CONTACT WITH CONCRETE, MASONRY OR EARTH – Hemlock Fir pressure treated with Wolman Salts, Tanalith U or chromated copper arsenic; grade – 2x4; No. 2 grade – 2x6, cut ends dipped in preservative (Cuponol).
E. PLYWOOD ROOF DECKING – APA C-D grade, Group 1, Exposure 1 with exterior glue. On overhangs, C-C plugged and touch sanded.
F. PLYWOOD FLOOR DECKING – APA STURD-I-FLOOR 48" o.c. 1-1/8" tongue and groove floor sheathing.
G. EXTERIOR SIDING/SHEATHING – APA Type 303, exterior, T-1-11 8" o.c., siding. Sheathing 1/2" CDX.
H. Not used.
I. STUDS AND POSTS – Hem Fir Stud Grade.
J. FASTENERS – All nails shall be corrosion resistant per U.B.C. Standard 2303.
K. BUILDING TRIM – 1x Resawn select H.F. or Masonite.
L. DOOR/WINDOW TRIM – 1x6 Resawn H.F.

3. WORKMANSHIP

A. FRAMING – securely nailed, bridged and blocked to form rigid structure. Work cut, fitted and assembled level, plumb and true to line. Trim in as long lengths as possible with all standing trim in one piece. Trim sealed at all edges.

B. NAILING – in accordance with Title 24 C.C.R. – California Building Code, Table 23A-I-Q. Nails shall be corrosion resistant box nails.

C. EXTERIOR WALLS – factory fabricated. Caulking provided between perimeter of wall and structural members providing weatherproof and watertight seal. Necessary closures, seals, and flashings placed at top and base support of panels and around openings.

D. MACHINE APPLIED NAILING – shall have prior demonstration and approval by DSA field representative and the architect. The approval is subject to continued satisfactory performance. Plywood shall have a minimum thickness of 3/8". 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.

E. Not used
F. Trim sealed at all edges. Sealant painted to match trim or siding.
G. Retighten all bolts before closing in.
H. The design moisture content of lumber is 19% or less before fabrication, other revision thru change order will be required.

SECTION 7B SHEET METAL

1. SCOPE OF WORK

Contractor shall provide all labor, materials and services to install indicated sheet metal.

2. MATERIALS

A. SHEET METAL – Steel sheets hot dip galvanized with 1.25 Oz. per square foot zinc coating conforming to ASTM A123. Minimum 26 Ga. unless otherwise noted on the drawings.

B. SOLDER – Of standard brand, Grade "A" of equal parts lead and tin ASTM B32.

C. FLUX – Zinc saturated muriatic acid.

3. WORKMANSHIP

Sheet metal accurately formed to dimensions and shapes detailed with true straight lines, corners and angles. Flashings installed in longest lengths possible. Exterior work formed, fabricated and installed so that it adequately provides for expansion and contraction in the completed work and finishes water and weather tight. Aluminum shall be separated from ferrous metal by polyethylene or flood coat of asphalt paint.

SECTION 7C METAL ROOFING

1. GENERAL

Metal roofing to be 22 Ga. interlocking panels with standing seam. Steel deck shall be galvanized and conform to ASTM A-446 grade A. All fasteners to have neoprene washers.

Metal roofing to be 26 Ga. ribbed gal. sheet metal interlocking panels installed over asphalt base sheet over 3/4" plywood roof deck. All fasteners shall not penetrate metal roof panels.

SECTION 7J SEALANT

1. SCOPE OF WORK

Contractor shall provide all labor, materials and services to seal buildings.

2. MATERIALS

"Vulkem" Sealant, polyurethane, manufactured by MAMECO INTERNATIONAL or approved equal.

Sealant applied to dry clean surfaces, wherever indicated on details and as needed to make building watertight, in accordance with manufacturer's specifications.

SECTION 8B HOLLOW METAL DOORS AND FRAMES

1. SCOPE OF WORK

Contractor shall provide all labor, materials and services to install hollow metal doors & frames.

2. MATERIALS

A. DOORS – Type L full flush, manufactured by Steelcraft Manufacturing company or approved equal, 18 Ga. 1-3/4" thick.

B. FRAMES – 16 Ga. cold rolled, 2" faces.

3. WORKMANSHIP

Sheet metal accurately formed to dimensions and shapes detailed with true straight lines, corners and angles. Flashings installed in longest lengths possible. Exterior work formed, fabricated and installed so that it adequately provides for expansion and contraction in the completed work and finishes water and weather tight.

SECTION 8D FINISH HARDWARE

1. SCOPE OF WORK

Contractor shall supply and install finish hardware as specified and as required.

2. DOOR SCHEDULE See shts 1 and 9.

3. SPECIAL REQUIREMENTS

A. Exit doors shall be operable from the interior without key or special knowledge or effort.

B. Closures for exterior doors shall be set for a maximum opening pressure of 8.5 lbs; interior doors shall be set for maximum opening pressure of 5 lbs.

C. Deadbolts not permitted unless operable with a single effort using lever handle.

D. Hardware shall be centered between 30" and 44" above finished floor.

SECTION 9E PAINTING

1. SCOPE OF WORK

Contractor shall provide all labor, materials and services to paint building. All exposed surfaces of building and ramp shall be painted except aluminum window frames and thresholds.

2. MATERIALS

A. For Exterior Wood:

Ref. brand –	VISTA
Primer	4100
Finish	6000

B. For Interior Trim:

Ref. brand –	VISTA
Finish	7000

C. For Metal:

Ref. brand –	VISTA
Finish	7000

3. WORKMANSHIP

A. EXTERIOR – Wood siding, trim and starting – apply two coats of exterior flat acrylic paint sprayed on.

B. INTERIOR TRIM – Trim not precoated shall be painted with two coats of semi-gloss latex over primer.

C. METAL – All metal surfaces shall be painted with two coats of alkyd finish coat over shop primer.

D. RAMP – One coat of non-skid surfacing.

SECTION 13F SITE ASSEMBLY

1 SCOPE OF WORK

Contractor shall provide all labor, materials and services to prepare the building elements, transport them from the plant to the site and to complete the assembly at the site.

The condition of the site, such as drainage and soil bearing capacity, shall be the responsibility of the School District. Unless specifically called for in the contract, steps, ramps, walkways or handrails shall not be the responsibility of the contractor.

2 ASSEMBLY OF ELEMENTS

A. In a location on the site as determined by the School District, the contractor shall place concrete leveling strips or other suitable supports as detailed on the drawings.

B. The elements shall be brought to the site on wheel assembly and transferred to the prepared site. Great care shall be taken to avoid damage to the elements by racking or bumping.

C. Connection of the elements together shall be done according to instruction on the drawings. Flashings, trim and other loose items shall be installed per details on the drawings.

SECTION 15A AIR CONDITIONING

1 SCOPE OF WORK

Contractor shall provide all labor, materials and services to install the air conditioning system as shown on the drawings and specifications, including A/C units and accessories, remote thermostat, grills and power wiring complete to load center. contractor shall instruct owner's operators on operation and maintenance of A/C system.

2 EQUIPMENT See A/C information schedule for size and type.

3 WORKMANSHIP

Units shall be installed complete and operating with all accessories in accordance with the manufacturer's instructions.

SECTION 16A ELECTRICAL

1 SCOPE OF WORK

Contractor shall provide all labor, materials and services for electrical installation complete with associated equipment and fixtures in operating conditions ready for use. The work includes: light and power systems, lighting fixtures complete with lamps, connections and disconnects to A/C equipment.

2. MATERIALS

All new complying with requirements of Calif. Building Code and National Fire Protection Association.

A. ELECTRIC METALLIC TUBING – couplings and flex conduit galvanized or sherardized.

B. PANELBOARDS – flush mounted with hinged doors and indexed card holders.

C. CONDUCTORS – copper, insulated for 600 volts, type THHN for sizes #12 to #6, type THW for larger sizes. Minimum size – #12.

D. RECEPTACLES – General Electric 5242-2 or equal +15".

E. CLOCK RECEPTACLE – Eagle or equal.

F. SWITCHES – General Electric 5901-2 or equal +48"

G. LIGHTING FIXTURES – 2'X 4' fluorescent drop in type fixtures with 35 watt lamps and energy saving ballast.

3. WORKMANSHIP

Materials and equipment installed in a secure, neat, workmanlike manner in accordance with code requirements. Panel board cards filled out. Conduit and cable installed in wall and ceiling spaces. Work piercing waterproofed areas flashed and sealed to a watertight condition.

NAILING SCHEDULE

Joists or rafters to sides of studs 8" joist or less	(3)–16d
for each additional 4" in depth of joist	(1)–16d
Bridging to joist, toenails each end	(2)–8d
a. blocking between joists or rafters to toenails each side, each end	(2)–10d
b. blocking between studs, each end	(2)–16d or (2)–10d toenails
Sole plate to joist or blocking face nail	16d @ 16" o.c.
Top plate to stud, end nail	(2)–16d
Stud to sole plate	(4)–8d toenail or (2)–16d endnail
Double studs, face nail	16d @ 24" o.c.
Double top plates, face nail	16d @ 16" o.c.
Continuous header, two pieces	16d @ 16" o.c. along each edge
Ceiling joists to plate, toenail	(3)–8d
continuous header to stud, toenail face nail	(4)–8d
Ceiling joists, laps over partitions, face nail	(3)–16a
Ceiling joists to parallel rafters,	(3)–16d
Joists or rafters at all bearings, toenails each side.	(2)–10d
1" brace to ea. stud and plate, face nail	(2)–8d
Built up corner studs	16d @ 24" o.c.

PLYWOOD

Subfloor, roof and wall sheathing to framing:

1/2" and less	6d[4]
19/32" – 3/4 "	8d[3] or 8d[2]
7/8" – 1"	8d[2]
1-1/8" – 1-1/4"	10d[3] or 8d[2]

Combination subfloor/underlayment to framing:

3/4" or less	6d[2]
7/8" – 1"	8d[2]
1-1/8" – 1-1/4"	10d[3] or 8d[2]

Panel siding to framing:

5/8"	6d[4]
1/2" or less	8d[4]

1. Common or box nails may be used except where otherwise stated.
2. Deformed shank.
3. Common
4. Not used
5. Nails spaced at 6" o.c. at edges, 12" o.c. at intermediate supports (10" at intermediate supports for floors), except 6" o.c. at all supports where spans are 48" or more. For nailing of plywood diaphragms and shear walls, refer to Section 2314. Nails for wall sheathing may be common or box.
6. Corrosion resistant siding or casing nails conforming to the req. of Section 2320A.
7. Fasteners spaced 3" o.c. at ext. edges and 6" o.c. at intermediate supports.
8. Corrosion resistant roofing nails with 7/16" dia. head and 1-1/2" length for 1/2" sheathing and 1-3/4" length for 25/32" sheathing conforming to the requirements of Section 2322.2.
9. Corrosion resistant staples with nominal 7/16" crown and 1-1/8" length for 1/2" sheathing and 1-1/2" length for 25/32" sheathing conforming to the requirements of Section 2317.
10. Where possible, nails driven perpendicular to the grain shall be used instead of toenails.

NOTE:
PREPARATION FOR SUB FLOOR TO ACCEPT FINISH FLOORING IS BY FLOORING CONTRACTOR. 1 1/8" PLYWOOD SUB-FLOOR IS PLUGGED AND TOUCH SANDED, ANY DEFORMITIES SHALL BE FILLED AND SANDED BY THE FLOORING CONTRACTOR. THE JOINT AT THE MODULE JOINING SHALL NOT BE LARGER THAN 1/8" AND SHALL BE FILLED AND SANDED BY FLOORING CONTRACTOR.

SPECIAL NOTE:
ALL FINISHES SHALL COMPLY WITH C.B.C. CHAPTERS 3,7,8, & 10 C.F.C. & TITLE 19 C.C.R.

BUILT-UP ROOFING SPECIFICATION

CBC 1998
PC

D.S.A.
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DATE JUN 22 1999

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APPROVED
DATE NOV 18 2000

STRUCT. ENGINEER
REGISTERED PROFESSIONAL ENGINEER
JAMES T. SIMPSON
No. 24612
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STATE OF CALIFORNIA
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CHANGE ORDER

CHECKED BY

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16533 Knowles Ave., Riverside, CA. 92504
Phone: (909) 789-1196
Fax: (909) 789-0215

RELOCATABLE BUILDING FOR:
STOCKPILE
WILLIAMS / SCOTSMAN

GENERAL NOTES
SPECIFICATIONS.

BY AH DATE 10-11-00

SHEET
G

4504 CASE FILE NO. SC-100335

DOOR SCHEDULE

DOOR NO.	DOOR SIZES	TYPE	DOOR TYPE	GLASS	MINIMUM RATING	FRAME TYPE	HARDWARE GROUP	DOOR SPECIFICATION
1	3'-0" x 6'-8" x 1 3/4"	A	STL			A	1	18 GA. FULL FLUSH
2	6'-0" x 6'-8" x 1 3/4"	B	SCW			B	4	LEGACY WALNUT (USE ONLY W/ RESTROOM)

DOOR HARDWARE GROUP #1

ITEM	DESCRIPTION
LOCK SET	LEVER HANDLE, SCHLAGE' D70PD RHODES, 26D FINISH
HINGES	'HAGAR' RC 1279 BB 4.5"x 4.5" NRP PC
CLOSER	'NORTON' 1601, 8 LBS. CLOSING PRESSURE
THRESHOLD	'PEMCO' 271A
KICKPLATES	'PEMCO' 216AV
WEATHER-STRIP	'PEMCO' 249AV
DOOR STOP	'QUALITY' 1201 ES

DOOR HARDWARE GROUP #2

ITEM	DESCRIPTION
PANIC	VON DUPRIN 22EO, 26D FINISH
HINGES	'HAGAR' RC 1279 BB 4.5"x 4.5" NRP PC
CLOSER	'NORTON' 1601, 8 LBS. CLOSING PRESSURE
THRESHOLD	'PEMCO' 271A
DOOR BOTTOM	'PEMCO' 216AV
WEATHER-STRIP	'PEMCO' 249AV
DOOR STOP	'QUALITY' 1201 ES

DOOR HARDWARE GROUP #3

ITEM	DESCRIPTION
LOCK SET	LEVER HANDLE, 'SCHLAGE' D10S RHODES, 26D FINISH
HINGES	'HAGAR' RC 1744 BB 4"x 4"
DOOR STOP	'QUALITY' 1201 ES

DOOR HARDWARE GROUP #4

ITEM	DESCRIPTION
LOCK SET	LEVER HANDLE, 'SCHLAGE' D40S RHODES, 26D FINISH
HINGES	'HAGAR' RC 1744 BB 4"x 4"
DOOR STOP	'QUALITY' 1201 ES

DOOR HARDWARE GROUP #5

ITEM	DESCRIPTION
LOCK SET	LEVER HANDLE, 'SCHLAGE' D50PD RHODES, 26D FINISH
HINGES	'HAGAR' RC 1744 BB 4"x 4"
DOOR STOP	'QUALITY' 1201 ES

DOOR HARDWARE GROUP #6

ITEM	DESCRIPTION
LOCK SET	LEVER HANDLE, 'SCHLAGE' D80PD RHODES, 26D FINISH
HINGES	'HAGAR' RC 1744 BB 4"x 4"
DOOR STOP	'QUALITY' 1201 ES

WINDOW SCHEDULE

	WINDOW SIZES	FRAME	GLAZING TYPE	SPECIAL NOTES
A	6'-0" x 4'-0"	AL	6	ALUMINUM FRAMED SCREENS ON OPERABLE SASH.
B				
C				
D				
E				
D				

EXTERIOR FINISH

MAT'L		DESC.	MFG.	SPECIFICATION
SIDING		4' x 9' x 5/8"	DURATEMP	APA RATED OR EQUAL, GROUP 1, TYPE 303 EXTERIOR SIDING
ROOFING		BUILT-UP	GAFGLAS	N-B-3-M (SEE SPEC. ON SHEET 9)
		26 Ga.	PLACER	
	X	22 Ga.	CAL. STEEL	
TRIM		WOOD 1"x4"	RESAWN	@ DOORS

INTERIOR FINISH SPECIFICATIONS

ITEM		DESCRIPTION
FLOOR	CARPET	COMPLYING WITH THE STATE OF CALIF. SPEC. 1220-21K-01 GROUP 1 TYPE A, CLASS 2-6, DENSITY 4600, DIRECT GLUE DOWN. (SEE NOTE BELOW)
	SHEET VINYL	ARMSTRONG CLASSIC CORLON SHEET VINYL .085 GAUGE WITH 6" COVE BASE. COEFFICIENT OF FRICTION 0.5 MIN. (ASTM D2047)
	VCT	VINYL COMPOSITION TILE WITH 4" TOP SET BASE. COEFFICIENT OF FRICTION 0.5 MIN. (ASTM D2047)
CLG	SUSPENDED	ARMSTRONG 704 CEILING TILE (FLAME SPREAD CLASS 1) WITH ARMSTRONG HEAVY DUTY GRID. MAIN RUNNERS 7301, CROSS RUNNERS-XL 7328 OR XL 8223
	GYP. BOARD	1/2" NP. GYP.BOARD TAPED AND PAINTED
WALLS	VINYL	1/2" VINYL COVERED TACK BOARD (FLAME SPREAD CLASS 1) OVER 1/2" GYP BOARD.
	F. R. P.	1/8" FULL HEIGHT FIBERGLASS REINFORCED PANELS (FRP) OVER OVER 1/2" WATERPROOF GYP BOARD PANELS.
CHALKBOARD		1/2" PARTICLE BOARD SUBSTRATE, FULL WIDTH MAP RAIL WITH CORK INSERT AND SIX MAP HOOKS, EXTRUDED ALUMINUM MOLDING WITH FLAG HOLDER.
MARKERBOARD		1/2" PARTICLE BOARD SUBSTRATE, FULL WIDTH MAP RAIL WITH CORK INSERT AND SIX MAP HOOKS, EXTRUDED ALUMINUM MOLDING WITH FLAG HOLDER.

INTERIOR FINISH SCHEDULE

24 X 40 CLASSROOM

ROOM DESC. ROOM NO.	FLOOR	CEILINGS	WALLS	MISC.
CLASSROOM	CARPET	SUSPENDED	VINYL	

INTERIOR FINISH SCHEDULE

24 X 40 CLASSROOM W/ RESTROOM

ROOM DESC. ROOM NO.	FLOOR	CEILINGS	WALLS	MISC.
CLASSROOM	CARPET	SUSPENDED	VINYL	
RESTROOM	SHEET VINYL	SUSPENDED	FRP	

INTERIOR FINISH SCHEDULE

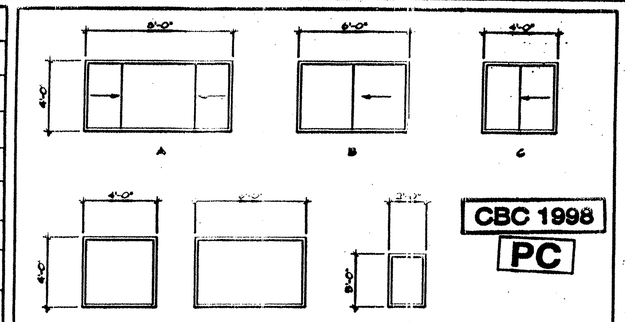
48 X 40 CLASSROOM

ROOM DESC. ROOM NO.	FLOOR	CEILINGS	WALLS	MISC.
CLASSROOM	CARPET (COLLINS AIKMAN)	SUSPENDED	VINYL	MARKERBOARD (MORCLEIN)
RESTROOM	SHEET VINYL	SUSPENDED FRP	FRP	

A/C INFORMATION

	24 X 40 CLASSROOM	36 X 40 CLASSROOM	48 X 40 CLASSROOM
MANUFACT.	MARVAIR	MARVAIR	MARVAIR
MODEL	AVP42HPA	AVP60HPA	AVP42HPA
SIZE	3.5 TON (1 UNIT)	5 TON (1 UNIT)	3.5 TON (2 UNITS)
SUPPLY	DUCTED	DUCTED	DUCTED
RETURN	DIRECT	DIRECT	DIRECT
HEAT STRIP	SEE SHT. E1.0	SEE SHT. E1.1	SEE SHT. E1.2
ELECTRICAL	SEE SHT. E1.0	SEE SHT. E1.1	SEE SHT. E1.2

WINDOW TYPES



CBC 1998
PC

D.S.A.
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
04-101055
AC. DATE JUN 29 1998

D.S.A.
04-101055
AC. DATE NOV 16

STRUCT. ENGINEER

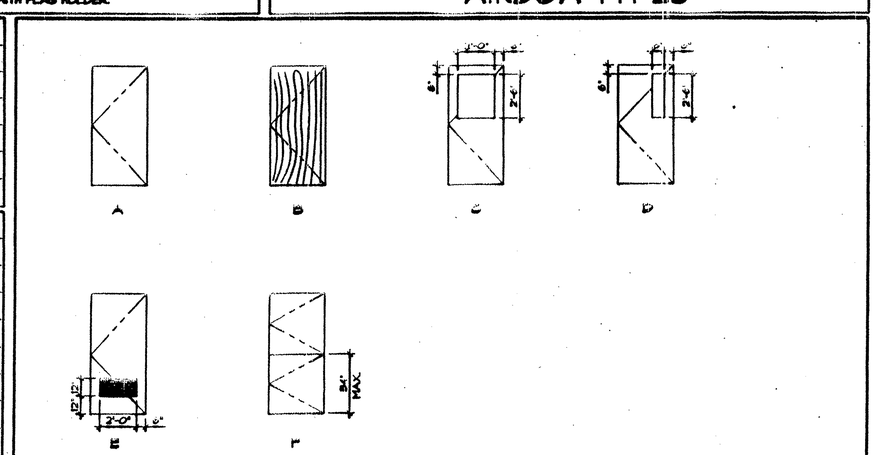
REGISTERED PROFESSIONAL ENGINEER JAMES R. SIMMONS No. 34402 EXPIRES 6-30-2000 STRUCTURAL STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-2000

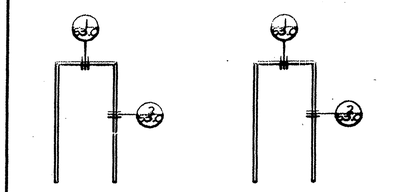
ARCHITECT

CHANGE ORDER

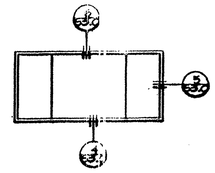
CHECKED BY

DOOR TYPES





DOOR FRAME DETAILS



WINDOW FRAME DETAILS

FRAME, DOOR & GLAZING TYPES

FRAME LEGEND
AL - ALUMINUM
HM - HOLLOW METAL
WF - WELDED FRAME

DOORS LEGEND
STL - 18GA STEEL DOOR
SCW - SOLID CORE WOOD

GLAZING TYPES
1 - 46% TEMPERED SHAYLITE GLAZING
2 - 14% TEMPERED SHAYLITE GLAZING
3 - CLEAR TEMPERED
4 - SINGLE PANE
5 - DUAL PANE

AURORA MODULAR INDUSTRIES
16833 Kramer Ave., Riverside, CA. 92504
Phone (909) 780-7196
Fax (909) 780-2253

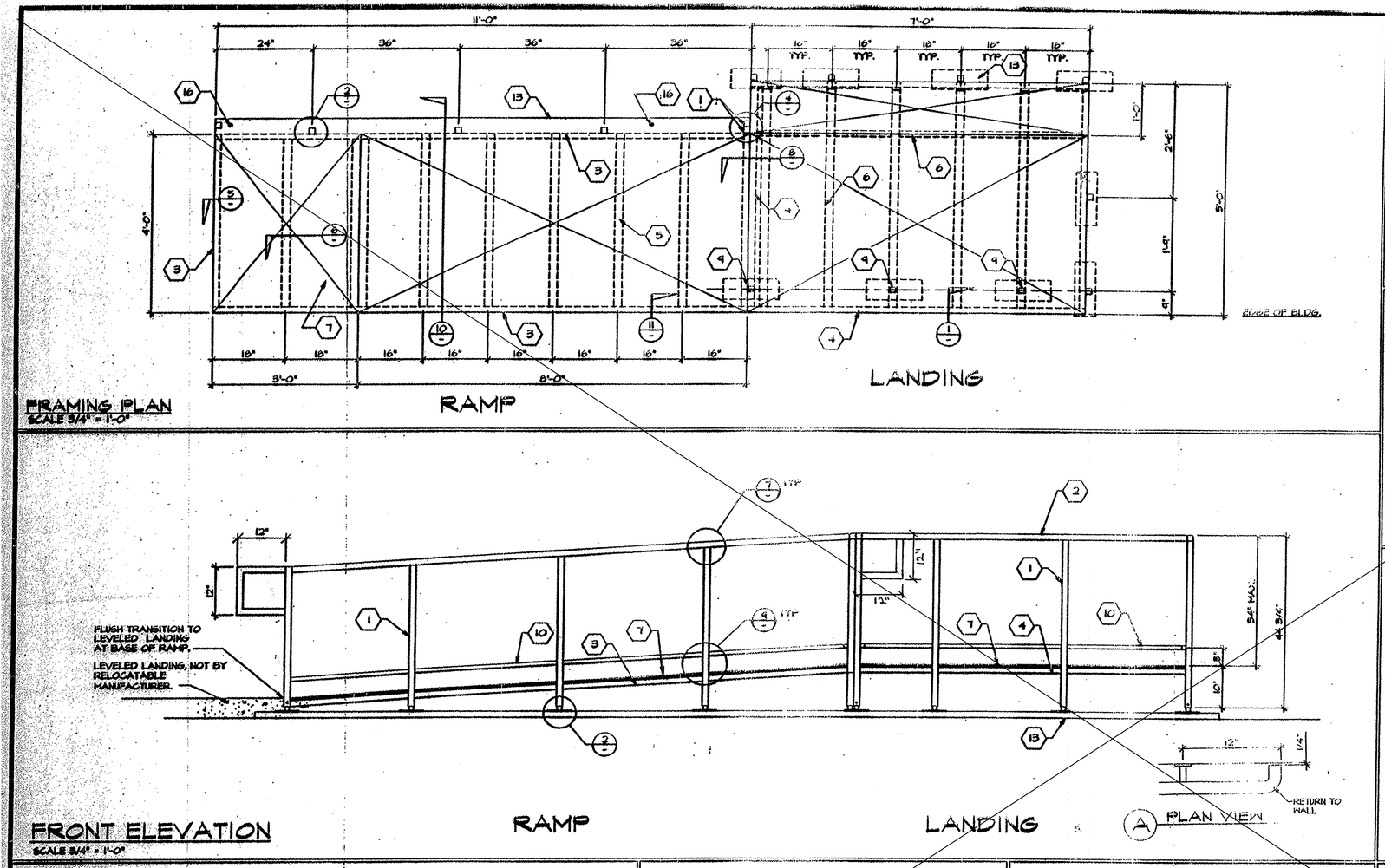
RELOCATABLE BUILDING FOR:
STOCKPILE
WILLIAMS / SCOTSMAN

DOOR SCHEDULE
WINDOW SCHEDULE
FINISH SCHEDULES

BY: AH DATE: 12-11-00

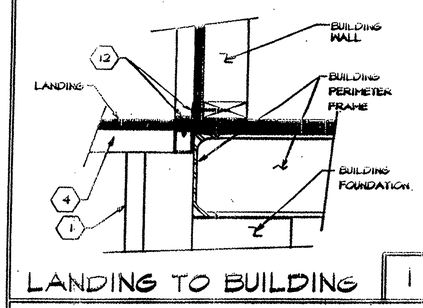
SHEET 9

4504 CONTRACT NO. PC-100335

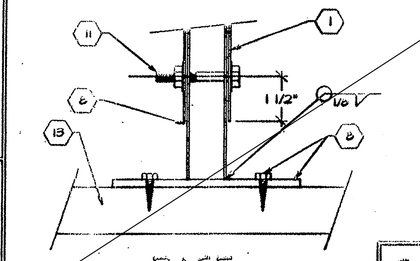


FRAMING PLAN
SCALE 3/4" = 1'-0"

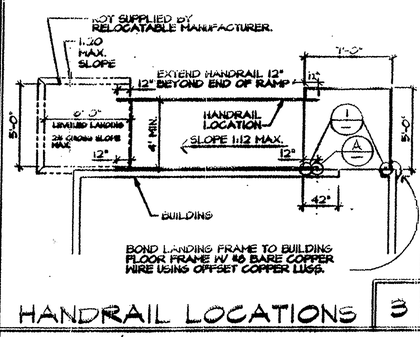
FRONT ELEVATION
SCALE 3/4" = 1'-0"



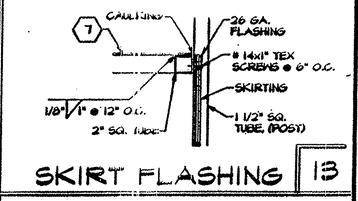
LANDING TO BUILDING | 1



BASE | 2



HANDRAIL LOCATIONS | 3



SKIRT FLASHING | 13

KEYNOTES

CBC 1998

PC

1 UPRIGHT TUBE -
1-1/2"x 1-1/2"x 14 GA. SQUARE TUBE. (F_y=34KSI)

2 HANDRAIL TUBE -
1 1/2"x1 1/2"x14 GA. SQUARE TUBE. (F_y=34KSI)
(SMOOTH, EASE CORNERS)

3 RAMP PERIMETER TUBE -
2"x2"x14 GA. SQUARE TUBE. (F_y=34KSI)

4 LANDING PERIMETER TUBE -
1-1/2"x 2"x 14 GA. RECTANGLE TUBE
OR 2"x 2"x 14 GA. SQUARE TUBE.

5 RAMP CROSS TUBE -
2"x 2"x 14 GA. SQUARE TUBE.

6 LANDING CROSS TUBE @ PLYWD. EDGES
2"x 2"x 14 GA. SQUARE TUBE.

7 WOOD DECK -
3/4" EXTERIOR GRADE PLYWOOD. ATTACH TO SUPPORT TUBES WITH #10 SELF TAP SCREWS AT EACH BEARING. RAMP DECK SHALL HAVE NON S.I.P FINISH.

8 ADJUSTABLE LEGS -
1-1/4"x 1-1/4"x 14 GA. SQUARE TUBE WITH 5"x 6"x 1/4" THICK BASE PLATE WELDED TO LEG. BASE PLATE TO HAVE (2) 5/16" HOLES FOR 1/4" LAG BOLTS.

9 - 1-1/2" TUBE STEEL

10 WHEELCHAIR RAIL -
1"x 1" SQUARE TUBE- TACK WELDED TO UPRIGHT MEMBERS.

11 3/8" DIA. MACHINE BOLTS.

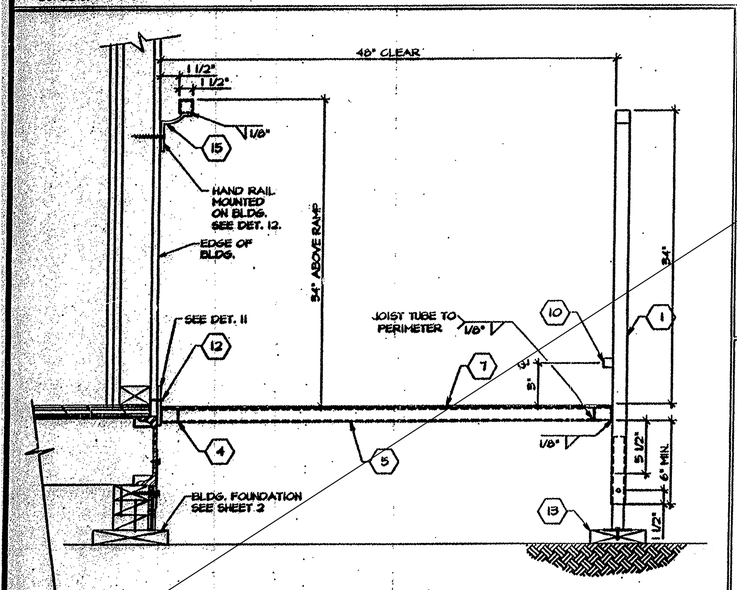
12 6"x10 GA. PLATE W/ #14x3" WD. SCREWS AT 9" O.C. INTO STRUCTURAL WOOD MEMBERS OR @ 14x1 1/2" SELF TAP SCREWS AT 12" O.C. INTO STRUCTURAL STEEL MEMBERS.

13 CONT. SILL PL. 2 x 5 P.T.H.F.

14 NOT USED

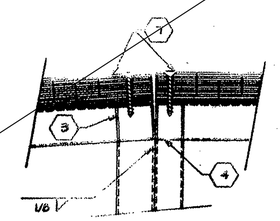
15 HANDRAIL MOUNTING BRACKET-USE BRACKET WITH 3/8" x4" LAG BOLT TO HEM FIR STUD OR BLOCK.

16 DRIVE 1" DIA. x 18' S.I. PIPE AT 10'-0" MAX. DRILL SILL PL. 1-1/2" DIA. MAX. HOLE. PIPE MAY BE DRIVEN AT A MAX. OF 45 DEG. ANGLE W/ VERTICAL.

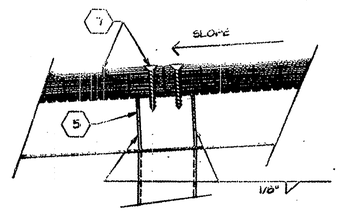


SECTION @ RAMP
SCALE 1/2" = 1'-0"

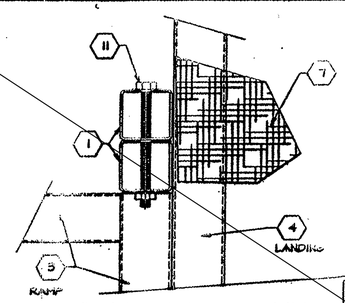
10



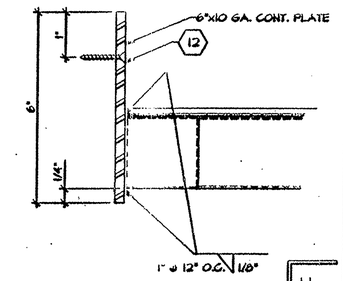
SUPPORT PLATE | 8



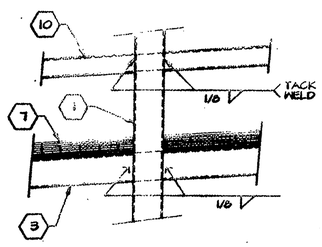
DECK & JOIST CONN. | 6



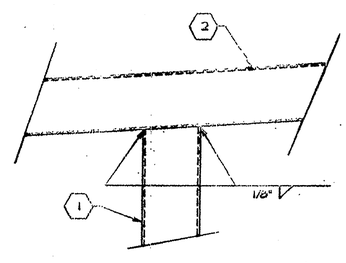
RAMP/LANDING CONN. | 4



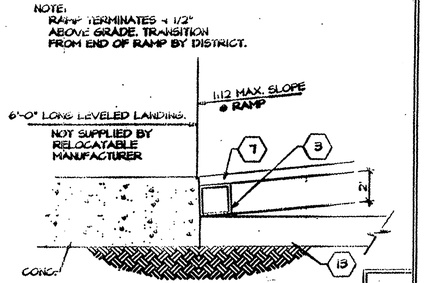
RAMP TO BUILDING | 11



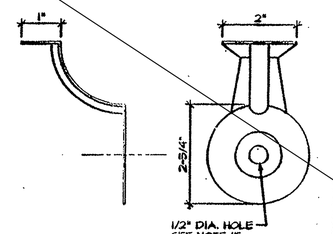
VERTICAL POST CONN. | 9



POST TO HANDRAIL | 7



CONC LANDING TO RAMP | 5



HANDRAIL MOUNT

D.S.A.
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
04 - 101055
AC PR FLS SS
DATE JUN 29 1999

D.S.A.
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
04 102324
AC PR FLS SS
DATE NOV 16 2000

STRUCT. ENGINEER

REGISTERED PROFESSIONAL ENGINEER — JACK T. SCOTSMAN — No. 3402 — Structural — STATE OF CALIFORNIA

LICENSE EXPIRES 6-30-2000

ARCHITECT

CHANGE ORDER

CHECKED BY

AURORA MODULAR INDUSTRIES
16333 Knowles Ave., Riverside, CA. 92504
Phone (909) 780-4333
Fax (909) 780-4233

RELOCATABLE BUILDING FOR:
STOCKPILE
WILLIAMS / SCOTSMAN

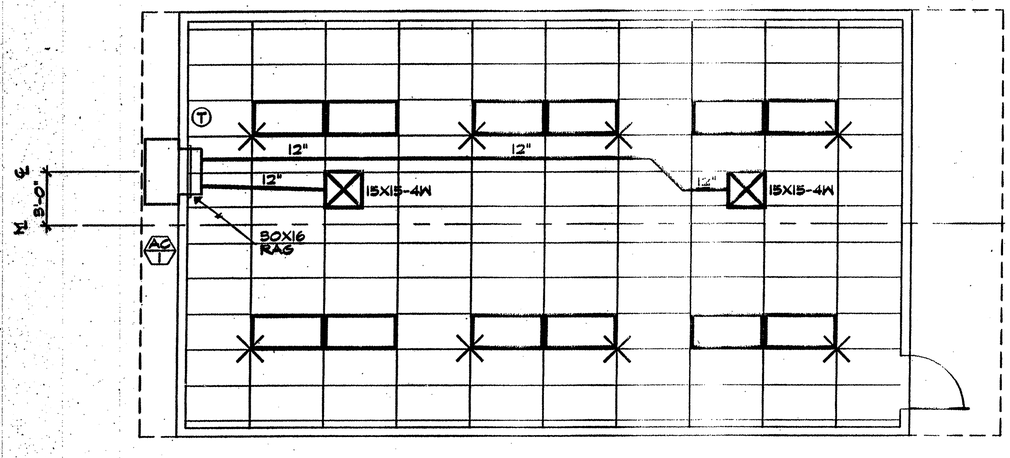
RAMP PLAN AND DETAILS (WOOD)

BY AH DATE 10-11-00
SHEET
R 1 of 1 0b
4504 JOB NO.

RELO-R1.0

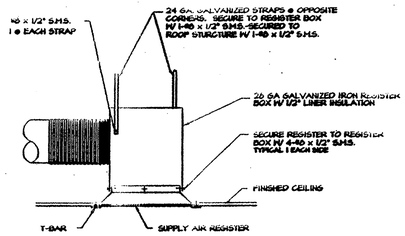
CBC 1998

PC



AIR CONDITIONING PLAN VIEW 24'X40' BUILDING

SCALE 1/4"-1'-0"



REGISTER BOX DETAIL

N.T.S.

EQUIPMENT & MATERIAL SCHEDULE

AC 1 MARVAIR MODEL# AVP42HPAOSNB WALL MOUNTED HEAT PUMP.
42,500 BTUH COOLING, SEER = 10.20
42,500 BTUH HEATING, HSPF = 6.60
1400 CFM NOMINAL @.4"S.P.,WT = 545 LBS.
208/230V-1PH-60CY, MAXIMUM F.L.A. = 48.53 AMPS.
W/FACTORY MOTORIZED DAMPER

SUPPLY AIR PLENUM:GALV. IRON SHEETS W/1" LINER INSULATION

INTERIOR DUCTWORK:FLEX DUCT CLASS 1 UL-181

REGISTER BOXES:GALV. IRON SHEETS W/ 1/2" LINER INSULATION

SUPPLY AIR REGISTERS:KRUEGER '6204-F23' SERIES

RETURN AIR GRILLES:METALAIRE 'RH' SERIES

THERMOSTAT:WHITE RODGERS 'IF92 (@ +48" A.F.F.)

ATTACH ALL SUPPLY AND RETURN AIR REGISTERS TO REGISTER BOXES WITH 4-#8x1/2" S.M.S. - ATTACH REGISTER BOX TO ROOF STRUCTURE WITH 2-1 1/2" GALV. STRAPS AT OPPOSITE CORNERS

D.S.A.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
04 - 101055
AC FLS SS
DATE JUN 29 1999

D.S.A.

APPROVED UNDER
DSA-SS/CC
04 101055
FLS
DATE NOV 16 2000

STRUCT. ENGINEER

REGISTERED PROFESSIONAL ENGINEER
JAMES T. RUSH
No. 38692
STRUCTURAL
STATE OF CALIFORNIA

LICENSE EXPIRES 6-30- 2000

ARCHITECT

CHANGE ORDER

CHECKED BY

AURORA MODULAR INDUSTRIES
16833 Kramerio Ave., Riverside, CA. 92504
Phone (909) 789-7196
Fax (909) 789-0263

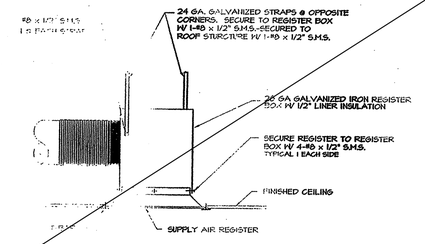
AIR CONDITIONING PLAN VIEW

BY JD/MD DATE 6-22-98

SHEET M1

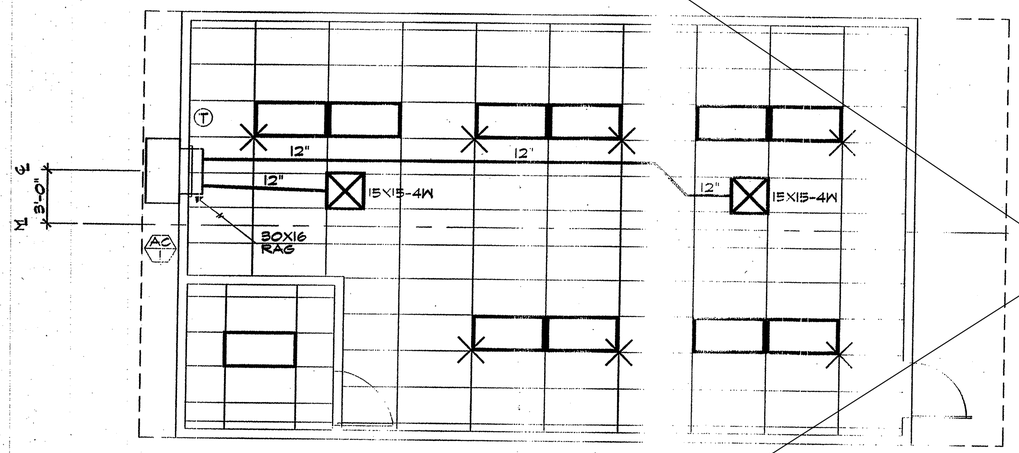
4504 CAD. FILE NO.

RELO-M1



REGISTER BOX DETAIL

N.T.S.



AIR CONDITIONING PLAN VIEW 40'X40' BUILDING

SCALE 1/4"-1'-0" (W/ RESTROOM)

EQUIPMENT & MATERIAL SCHEDULE

AC 1 MARVAIR MODEL= A/P42HPAOSNB WALL MOUNTED HEAT PUMP.
42,500 BTUH COOLING. SEER = 10.20
42,500 BTUH HEATING. HSPF = 6.60
1400 CFM NOMINAL @.4"S.P.,WT = 545 LBS.
208/230V-1PH-60CY. MAXIMUM F.L.A. = 48.53 AMPS.
W/FACTORY MOTORIZED DAMPER

SUPPLY AIR PLENUM: GAL / IRON SHEETS W/1" LINER INSULATION

INTERIOR DUCTWORK: FLEX DUCT CLASS 1 UL-181

REGISTER BOXES: GAL / IRON SHEETS W/ 1/2" LINER INSULATION

SUPPLY AIR REGISTERS: KRUEGER '6204-F23' SERIES

RETURN AIR GRILLES: METALAIRE 'RH' SERIES

THERMOSTAT: WHITE RODGERS '1F92 (@ +48" A.F.F.)

ATTACH ALL SUPPLY AND RETURN AIR REGISTERS TO REGISTER BOXES WITH 4-#8x1/2" S.M.S. - ATTACH REGISTER BOX TO ROOF STRUCTURE WITH 2-1 1/2" GALV. STRAPS AT OPPOSITE CORNERS

D.S.A.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF PUBLIC SCHOOL CONSTRUCTION
04 10 24 61
DATE NOV 16 2004

D.S.A.

STRUCT. ENGINEER

REGISTERED PROFESSIONAL ENGINEER JAMES R. LOWDON No. 3602 STRUCTURAL CIVIL
LICENSE EXPIRES 6-30-2004

ARCHITECT

CHANGE ORDER

CHECKED BY

AURORA MODULAR INDUSTRIES
16833 Krameria Ave., Riverside, CA. 92504
Phone (909) 789-7196
Fax (909) 789-0253

RELOCATABLE CLASSROOM BUILDINGS FOR:
WILLIAMS/SCOTSMAN
STOCKPILE

AIR CONDITIONING PLAN VIEW
W/ RESTROOM

BY M.C. DATE 11/12/2000

SHEET M

4504 C.A.D. FILE NO. PC-355

FIXTURE SCHEDULE (HANDICAP/ADULT)

SYMBOL	DESCRIPTION
A	WALL MOUNT AMERICAN STANDARD 2257.103, VITREOUS CHINA, ELONGATED BOWL, DIRECT FED SIPHON JET ACTION, 1-1/2" INLET TOP SPUD, FLUSHES ON 1.6 GAL, OLSONITE 95 OPEN FRONT SEAT LESS COVER, SLOAN ROYAL III FLUSH VALVE, CARRIER 2-1203 OR EQUAL. ASSEMBLY SHALL COMPLY WITH THE STATE OF CALIFORNIA REQUIREMENTS FOR FIXTURES SERVING PERSONS WITH DISABILITIES.
B	WALL TYPE LAV - AMERICAN STANDARD 0356.421, VITREOUS CHINA, BOWL DRILLED FOR CONCEALED ARMS SUPPORT, CHICAGO 333-664 SELF CLOSING METERING FAUCET WITH MINIMUM 10 SEC. RELEASE, COLD WATER ONLY. WALL MOUNTED CONCEALED ARMS SUPPORT ZURN Z1251, BRASS CRAFT CM15C CHROME PLATED ANGLE STOP WITH OVAL HANDLE WITH 3/8" STAINLESS STEEL BRAIDED FLEXIBLE SUPPLIES. 176A CP TUBULAR TRAP. 1-1/4" CP GRID STRAINER OR EQUAL. ASSEMBLY SHALL COMPLY WITH THE STATE OF CALIFORNIA REQUIREMENTS FOR FIXTURES SERVING PERSONS WITH DISABILITIES.

THE DIVISION OF THE STATE ARCHITECT, OFFICE OF GENERAL SERVICES, RECOMMENDS THE FOLLOWING DIMENSIONS AS ADAQUATELY SERVING THE NEEDS OF CHILDREN IN PROJECTS UNDER OUR JURISDICTION. THESE RECOMMENDATIONS ARE BASED ON THE FEDERAL "RECOMMENDATIONS FOR ACCESSIBILITY FOR CHILDREN IN ELEMENTARY SCHOOL" AND OTHER RECOGNIZED PUBLICATIONS ON ACCESS FOR CHILDREN.
A = ADULT DIMENSIONS (AGE 12 AND OVER)
E = ELEMENTARY DIMENSIONS
K = KINDERGARTEN AND PRE-SCHOOL DIMENSIONS

DIMENSION	A	SUGGESTED E	SUGGESTED K
TOILET CENTERLINE FROM WALL	18"	15"**	12"**
TOILET SEAT HEIGHT	17"-19"	15"	10"-12"
GRAB BAR HEIGHT (SIDE)	33"	27"**	20"-22"
		DIM TO TOP OF SEAT	
TOILET PAPER IN FRONT OF TOILET	12" MAX.	6"MAX**	6"MAX**
NAPKIN DISPOSAL IN FRONT OF TOILET	12" MAX	12"MAX.	N/A
DISPENSER OR MIRROR HEIGHT	40" MAX.	36" MAX.	32" MAX.
LAVATORY/SINK TOP HEIGHT	34" MAX.	28" MAX.	24" MAX.
LAVATORY/SINK KNEE CLEARANCE	29" MIN.	24" MIN.	19" MAX.
URINAL LIP HEIGHT	17" MAX.	15" MIN.	13" MIN.
URINAL FLUSH HANDLE HEIGHT	44" MAX.	31" MAX	32" MAX
DRINKING FOUNTAIN BUBBLER HEIGHT	36" MAX.	32" MAX	30" MAX
DRINKING FOUNTAIN KNEE CLEARANCE	27" MIN.	24" MIN.	22" MIN.
RAMP/STAIR HANDRAIL HEIGHT	34"-38"	27'	22"

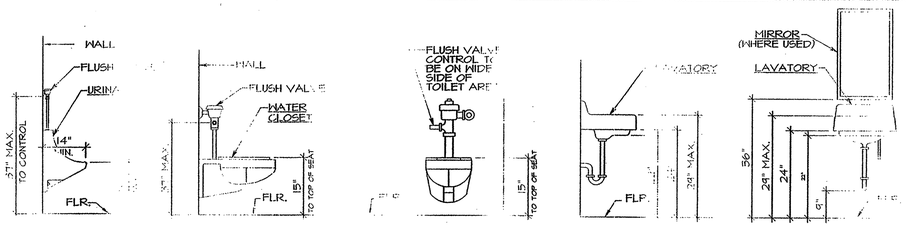
** DEVIATES FROM CODE REQUIREMENTS AND REQUIRES A WRITTEN FINDING OF UNREASONABLE HARDSHIP

RECOMMENDED ACCESSIBILITY DIMENSIONS

GRAB BARS - 'BOBRICK' B-6206 X 36" LONG
'BOBRICK' B-6206 X 42" LONG

MIRROR - 'BOBRICK' B-2907 ACRYLIC PLASTIC MIRROR - 48"x30"

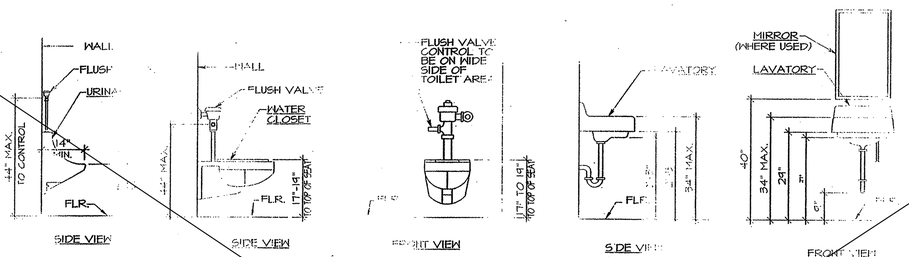
TOILET ACCESSORIES



ACCESSIBLE FIXTURE ELEVATIONS
WALL MOUNTED UNITS - ELEMENTARY HEIGHTS

WHEN HOT WATER IS PROVIDED, ALL HOT WATER PIPES SHALL BE INSULATED.
WHEN INSTALLED, PIPE INSULATION SHALL COMPLY WITH SEC 707.2, 1998 CBC

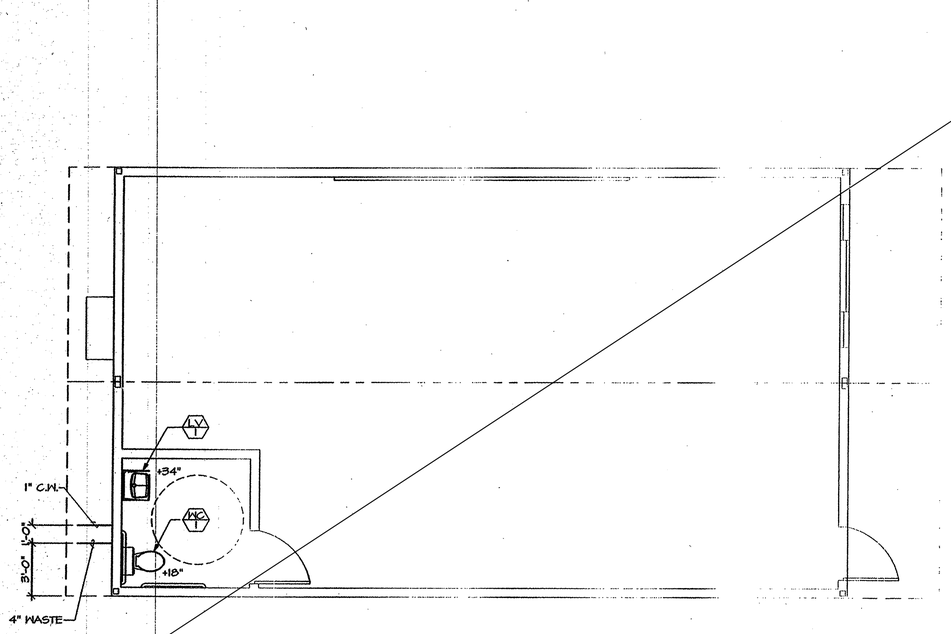
6



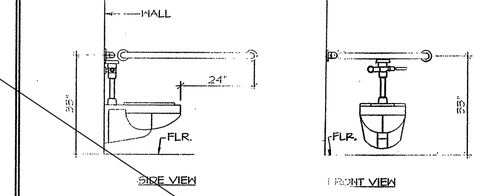
ACCESSIBLE FIXTURE ELEVATIONS
WALL MOUNTED UNITS - ADULT HEIGHTS

WHEN HOT WATER IS PROVIDED, ALL HOT WATER PIPES SHALL BE INSULATED.
WHEN INSTALLED, PIPE INSULATION SHALL COMPLY WITH SEC 707.2, 1998 CBC

7

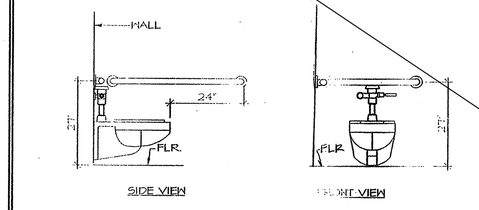


FLOOR PLANS (24x40)
SCALE: 1/4" = 1'-0"



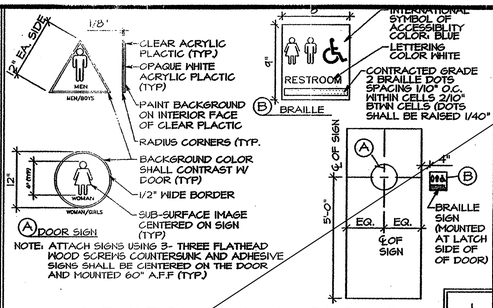
GRAB BAR ELEVATIONS
ADULT HEIGHTS

11

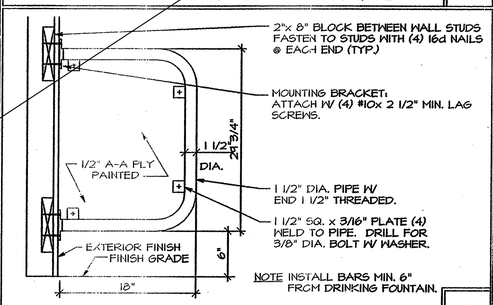


GRAB BAR ELEVATIONS
ELEMENTARY HEIGHTS

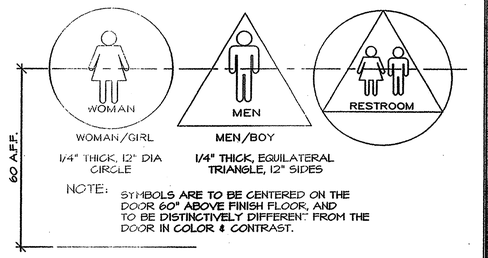
11



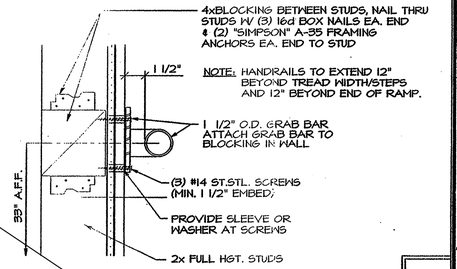
RESTRM. SYMBOLS
1



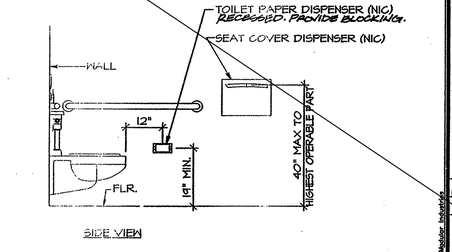
D.F. WARNING RAIL
2



TOILET ROOM SIGN
3



GRAB BAR BLOCKING
4



DISPENSER HEIGHTS
5

D.S.A.
IDENTIFICATION STAMP
OFFICE OF REGULATION SERVICES
04 102724
AC. DATE NOV 16 2000
D.S.A.

STRUCT. ENGINEER
LICENSE EXP. 6-30-2004

ARCHITECT

CHANGE ORDER

CHECKED BY

RELOCATABLE CLASSROOM BUILDINGS FOR:
WILLIAMS/SCOTSMAN
STOCKPILE

AURORA MODULAR INDUSTRIES
16833 Krameria Ave., Riverside, CA. 92504
Phone (909) 789-7196
Fax (909) 789-0263

PLUMBING DETAILS

BY M.C. DATE 11/12/2000
SHEET P.1.0
4504 C.A.D. FILE NO.

RELO-P1.0

BUILDING CODES AND STANDARDS

2019 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24, CCR
2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, CCR
(2018 INTERNATIONAL BUILDING CODE, VOLUMES 1 & 2 AND 2019 CA AMENDMENTS)
2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24, CCR
(2017 NATIONAL ELECTRICAL CODE AND 2019 CA AMENDMENTS)
2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, CCR
(2018 IAPMO UNIFORM MECHANICAL CODE AND 2019 CA AMENDMENTS)
2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, CCR)
(2018 IAPMO UNIFORM PLUMBING CODE AND 2019 CA AMENDMENTS)
2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24, CCR
2019 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, CCR
(2018 INTERNATIONAL FIRE CODE AND 2019 CA AMENDMENTS)
2019 CALIFORNIA EXISTING BUILDING STANDARDS CODE (CEBC), PART 10, TITLE 24
(2018 INTERNATIONAL EXISTING BUILDING CODE AND 2019 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA GREEN BUILDING STANDARD CODE (CALGREEN), PART 11, TITLE 24 CCR
2019 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHALL REGULATIONS
2016 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS
(PER 2019 CBC PART 2 CHP 35)

APPLICABLE STANDARDS

2016 NFPA 13, INSTALLATION OF SPRINKLER SYSTEMS (CALIFORNIA AMENDMENTS)
2016 NFPA 14, INSTALLATION OF STANDPIPE AND HOSE SYSTEMS
2017 NFPA 17, DRY CHEMICAL EXTINGUISHING SYSTEMS
2017 NFPA 17A, WET CHEMICAL EXTINGUISHING SYSTEMS
2016 NFPA 20, INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION
2013 NFPA 22, WATER TANKS FOR PRIVATE FIRE PROTECTION
2016 NFPA 24, INSTALLATION OF PRIVATE FIRE SERVICE MAINS
AND THEIR APPURTENANCES
2016 NFPA 72, NATIONAL FIRE ALARM CODE (CALIFORNIA AMENDMENTS)
2016 NFPA 80, STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVE
2015 NFPA 2001, STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS
2013 NFPA 25, INSPECTION, TESTING, MAINTENANCE OF WATER-BSAED FIRE PROTECTION SYSTEMS
(2013 CA AMENDMENTS)
2003 UL 464, AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING
ACCESSORIES
1999 UL 521, STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS
2002 (R2010) UL 1971, STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED

FOR A COMPLETE LIST OF APPLICABLE STANDARDS REFER TO 2019 CBC
(SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80

KSC COMPANY
13617 12 STREET, SUITE #B, CHINO, CA 91710
OFFICE: (909) 740-3120, FAX: (909) 726-9470
WEBSITE: WWW.SKCCOMPANY.COM
MANUFACTURER #MF1279666 DEALER # DL1279666
GC LIC # 992118 SBE CERTIFIED

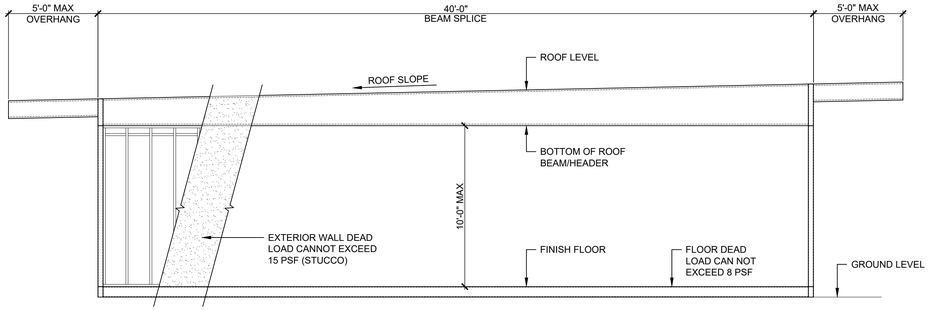
2019 CBC
DSA UNIVERSAL WOOD FOUNDATION SYSTEM
EXISTING 12'X40', 24'X40', 36'X40' OR 48'X40' STOCKPILE BUILDINGS
RISK CATEGORY II
PC 04-119361

FOUNDATION PC ONLY LIMITATIONS

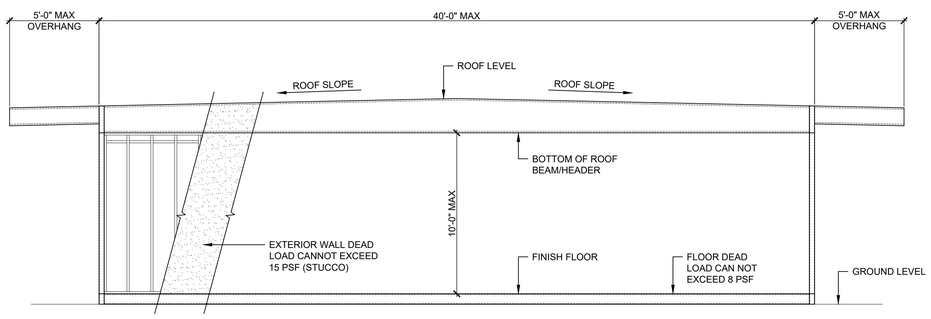
THIS WOOD FOUNDATION ONLY PC HAS BEE DESIGNED TO SUPPORT THE SUPERSTRUCURE FOR DSA APPROVED MODULAR BUILDINGS. THE DESIGN CALCULATIONS HAS BEEN BASED ON THE FOLLOWING:

1. A ROOF OVERHANG OF 5'-0" MAX
2. A WALL HEIGHT OF 10'-0" MAX (FROM FINISH FLOOR IN THE BUILDING TO THE BOTTOM OF THE STEEL ROOF BEAMS/HEADER)
3. WALL DEAD LOAD OF 15 PSF (STUCCO)
4. FLOOR DEAD LOAD OF 8 PSF
5. SEE SEISMIC DATA SHEET F-1 FOR THE Scs LIMITATIONS FOR THE SITE

THE TYPICAL ELEVATIONS BELOW ARE TO CLARIFY THESE LIMITATIONS. DOCUMENTATION SHALL BE PROVIDED BY THE ARCHITECT OR ENGINEER IN GENERAL RESPONSIBLE CHARGE WHICH NEEDS TO BE REVIEWED AND APPROVED BY THE DSA STRUCTURAL PLAN REVIEWER



SINGLE SLOPE BUILDING
SCALE: 1/4" = 1'-0"



DUAL SLOPE BUILDING
SCALE: 1/4" = 1'-0"

DESIGN DATA FOR 24'X40', 36'X40' & 48'X40'

DESIGN DATA:
ROOF LIVE LOAD = 20 PSF REDUCIBLE FOR TRIBUTARY AREA
FLOOR LIVE LOAD = 50 PSF & 50+15 PSF PARTITIONS (WHERE NOTED)
SNOW LOAD: PROJECT IS NOT LOCATED IN A SNOW REGION.
WIND SPEED (Vult) = 130 MPH, EXPOSURE "C", Kzt = 1.0

SEISMIC DESIGN DATA:
SEISMIC CATEGORY II
I = 1.0
Ss = 3.0857
S1 = 1.389
SITE CLASS = D (ASSUMED, Fa = 1.2)
Sos = 2.469

FOUNDATION PC IS LIMITED TO SITES WITH AN Ss = 3.0857 AND Sl = 1.389 OR LESS. SITE SPECIFIC DOCUMENTATION JUSTIFYING Ss AND Sl SHALL BE SUBMITTED TO DSA FOR REVIEW PRIOR TO APPROVAL OF SITE SPECIFIC PLANS

So1 = 1.574
Csd = 0.49 (ASD FORCE LEVEL)
R = 3.5
ANALYSIS PROCEDURE USED = EQUIVALENT LATERAL FORCE NO HORIZONTAL OR VERTICAL IRREGULARITIES PRESENT

SEISMIC DESIGN CATEGORY = E
BASIC SEISMIC-FORCE-RESISTING SYSTEM = STEEL MOMENT FRAME
DESIGN BASE SHEAR (12X40 BUILDING) = 13,640# (ROOF, FLOOR, WALLS & PARTITIONS)
(24X40 BLDG) = 20,990#
(36X40 BLDG) = 31,480#
(48X40 BLDG) = 41,970#

FLOOD DESIGN DATA:
PROJECT IS NOT LOCATED IN A FLOOD ZONE
COMPLY WITH DSA PR-14-01 SECTION 2.2 FOR REQUIRED DOCUMENTATION.

ALLOWABLE SOIL BEARING:
1000 PSF

WILDLAND URBAN INTERFACE (WUI) AREAS:
THIS PC CANNOT BE USED IN WUI AREAS

DESIGN DATA FOR 12'X40'

DESIGN DATA:
ROOF LIVE LOAD = 20 PSF REDUCIBLE FOR TRIBUTARY AREA
FLOOR LIVE LOAD = 50 PSF & 50+15 PSF PARTITIONS (WHERE NOTED)
SNOW LOAD: PROJECT IS NOT LOCATED IN A SNOW REGION.
WIND SPEED (Vult) = 110 MPH, EXPOSURE "C", Kzt = 1.0

SEISMIC DESIGN DATA: WITH Ss = 3.0857
SEISMIC CATEGORY II
I = 1.0
Ss = 3.0857
S1 = 1.389
SITE CLASS = D
Sos = 2.057

FOUNDATION PC IS LIMITED TO SITES WITH AN Ss = 3.0857 AND Sl = 1.389 OR LESS. SITE SPECIFIC DOCUMENTATION JUSTIFYING Ss AND Si SHALL BE SUBMITTED TO DSA FOR REVIEW PRIOR TO APPROVAL OF SITE SPECIFIC PLANS

So1 = 1.389
Csd = 0.411
R = 3.5
ANALYSIS PROCEDURE USED = EQUIVALENT LATERAL FORCE NO HORIZONTAL OR VERTICAL IRREGULARITIES PRESENT

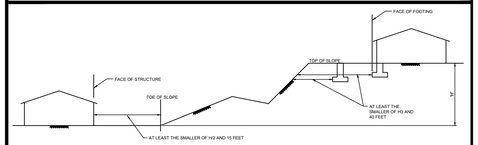
SEISMIC DESIGN CATEGORY = E
BASIC SEISMIC-FORCE-RESISTING SYSTEM = STEEL MOMENT FRAME
DESIGN BASE SHEAR (12X40 BUILDING) = 13,640# (ROOF, FLOOR, WALLS & PARTITIONS)

FLOOD DESIGN DATA:
PROJECT IS NOT LOCATED IN A FLOOD ZONE
COMPLY WITH DSA PR-14-01 SECTION 2.2 FOR REQUIRED DOCUMENTATION.

ALLOWABLE SOIL BEARING:
1000 PSF

WILDLAND URBAN INTERFACE (WUI) AREAS:
THIS PC CANNOT BE USED IN WUI AREAS

MIN SET BACK FROM SLOPE



SHEET INDEX

STATE AGENCY APPROVAL

KSC COMPANY
13617 12 STREET, SUITE #B, CHINO, CA 91710
OFFICE: (909) 740-3120, FAX: (909) 726-9470
WEBSITE: WWW.SKCCOMPANY.COM
MANUFACTURER #MF1279666 DEALER # DL1279666
GC LIC # 992118 SBE CERTIFIED

DISTRICT/CUSTOMER NAME:

SCHOOL/SITE NAME:

SHEET TITLE:

COVER SHEET

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-119361 PC
REVIEWED FOR
SS ☑ FLS ☐ ACS ☐ CG ☐
DATE: 09/24/2020

PROFESSIONAL OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No.3602 STRUCTURAL STATE OF CALIFORNIA

Date Signed: September 22, 2020

FIRM: EXL STRUCTURAL ENGINEERING, INC
ADDRESS: 4091 RIVERSIDE DRIVE, SUITE #114
CITY: CHINO, CA 91710
PHONE: (909) 613-0234

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

F-1

9/21/2020 8:21:19 AM

APPROVED A NUMBERS APPLICABLE TO THIS PC PLAN

MANUFACTURER OF MODULAR BUILDING	DSA A NUMBER OF MODULAR BUILDING	BASED ON PC	YEAR OF APPROVAL OF MODULAR BUILDING	MODULAR BUILDING SIZE	DESIGN FLOOR LIVE LOAD
AMERICAN MODULAR SYSTEMS	68570	314	1997	24x40	50
AMERICAN MODULAR SYSTEMS	02-101837	02-101488	2000	24x40	50
AMERICAN MODULAR SYSTEMS	02-102602	02-101835	2000	48x40	50
AMERICAN MODULAR SYSTEMS	02-103013	02-101837	2001	24x40	50
AMERICAN MODULAR SYSTEMS	02-103457	02-101837	2001	24x40	50
AMERICAN MODULAR SYSTEMS	02-105168	02-101837	2003	24x40	70
AMERICAN MODULAR SYSTEMS	02-105877	02-104917	2003	48x40	50
AMERICAN MODULAR SYSTEMS	02-106009	02-104915	2004	24x40	50
AMERICAN MODULAR SYSTEMS	02-106010	02-104917	2006	48x40	50
AMERICAN MODULAR SYSTEMS	02-106049	02-104915	2004	24x40	50
AMERICAN MODULAR SYSTEMS	02-106166	02-104915	2004	24x40	50
AMERICAN MODULAR SYSTEMS	02-106238	02-104915	2004	24x40	50
AMERICAN MODULAR SYSTEMS	02-106373	02-104917	2004	48x40	50
AMERICAN MODULAR SYSTEMS	02-106477	02-104915	2004	24x40	50
AMERICAN MODULAR SYSTEMS	02-106479	02-104925	2004	36x40	70
AMERICAN MODULAR SYSTEMS	02-106597	02-104915	2004	24x40	70
AMERICAN MODULAR SYSTEMS	02-107266	02-104917	2005	48x40	50
AMERICAN MODULAR SYSTEMS	02-107282	02-104925	2005	36x40	50
AMERICAN MODULAR SYSTEMS	02-107316	02-104925	2005	36x40	70
AMERICAN MODULAR SYSTEMS	02-107348	02-104915	2005	24x40	50
AMERICAN MODULAR SYSTEMS	02-107389	02-104925	2005	36x40	50
AMERICAN MODULAR SYSTEMS	02-107434	02-104917	2005	48x40	70
AMERICAN MODULAR SYSTEMS	02-107538	02-104925	2005	36x40	50
AMERICAN MODULAR SYSTEMS	02-107521	02-104915	2005	24x40	50
AMERICAN MODULAR SYSTEMS	02-107583	02-104917	2005	48x40	50
AMERICAN MODULAR SYSTEMS	02-107584	02-104915	2005	24x40	50
AMERICAN MODULAR SYSTEMS	02-107617	02-104915	2005	24x40	50
AMERICAN MODULAR SYSTEMS	02-107655	02-104925	2005	36x40	50
AMERICAN MODULAR SYSTEMS	02-107683	02-104915	2005	24x40	50
AMERICAN MODULAR SYSTEMS	02-107716	02-104915	2005	24x40	50
AMERICAN MODULAR SYSTEMS	02-107829	02-104925	2006	36x40	50
AMERICAN MODULAR SYSTEMS	02-107943	02-104915	2006	24x40	50
AMERICAN MODULAR SYSTEMS	02-108167	02-104917	2005	48x40	70
AMERICAN MODULAR SYSTEMS	02-108220	02-104925	2005	36x40	50
AMERICAN MODULAR SYSTEMS	02-108305	02-104917	2006	48x40	70
AMERICAN MODULAR SYSTEMS	02-108306	02-104915	2006	24x40	50
AMERICAN MODULAR SYSTEMS	02-108398	02-104925	2005	36x40	50
AMERICAN MODULAR SYSTEMS	02-108495	02-104915	2006	24x40	70
AMERICAN MODULAR SYSTEMS	02-108526	02-104917	2006	48x40	70
AMERICAN MODULAR SYSTEMS	02-108543	02-104917	2006	48x40	50
AMERICAN MODULAR SYSTEMS	02-108709	02-104917	2007	48x40	70
AMERICAN MODULAR SYSTEMS	02-108710	02-104925	2007	36x40	70
AMERICAN MODULAR SYSTEMS	02-108865	02-104925	2007	36x40	50
AMERICAN MODULAR SYSTEMS	02-108900	02-104917	2007	48x40	70
AMERICAN MODULAR SYSTEMS	02-109555	02-104925	2008	36x40	50
AURORA	65301	253	1996	24x40	50
AURORA	65601	253	1996	24x40	50
AURORA	65714	253	1996	24x40	50
AURORA	65768	253	1996	24x40	50
AURORA	65807	253	1996	24x40	50
AURORA	65839	253	1996	24x40	50
AURORA	67425	253	1996	48x40	70
AURORA	67426	253	1997	36x40	50
AURORA	68900	348	1997	36x40	70
AURORA	69961	253	1997	36x40	50
AURORA	04-100019	253	1997	24x40	50
AURORA	04-100246	253	1998	24x40	50
AURORA	04-100706	253	1998	36x40	50
AURORA	04-101311	04-100335	1998	24x40	50
AURORA	04-101817	04-101055	2000	24x40	50
AURORA	04-101941	04-101055	2000	24x40	50
AURORA	04-101965	04-101055	2000	24x40	50
AURORA	04-101966	04-101055	2000	24x40	50
AURORA	04-102504	04-101055	2000	36x40	50
AURORA	04-102724	04-101055	2000	24x40	50
AURORA	04-102963	04-101055	2000	36x40	50
AURORA	04-103138	04-101055	2001	24x40	50
AURORA	04-103577	04-101055	2001	24x40	50
AURORA	04-103714	04-101055	2001	48x40	70
AURORA	04-104028	04-101055	2001	24x40	50
AURORA	04-104609	04-101055	2002	24x40	50
AURORA	04-104478	04-101055	2002	24x40	50
AURORA	04-105203	04-101055	2003	24x40	50
AURORA	04-105288	04-101055	2002	36/48x40	50
AURORA	04-105339	04-104816	2003	24x40	50
AURORA	04-105440	04-104816	2003	24x40	50
AURORA	04-105948	04-104816	2003	36x40	50
AURORA	04-106097	04-104816	2004	24x40	70
AURORA	04-109476	04-101055	2008	36x40	50

APPROVED A# NUMBERS APPLICABLE TO THIS PC PLAN

MANUFACTURER OF MODULAR BUILDING	DSA A# NUMBERS OF MODULAR BUILDINGS	BASED ON PC	YEAR OF APPROVAL OF MODULAR BUILDING	MODULAR BUILDING SIZE	DESIGN FLOOR LIVE LOAD
CLASS LEASING	TBD	04-114654	2017	24/36/48X40	50 & 70
MODTECH	54198	121	1990	24X40	50
MODTECH	57433	79	1992	24X40	50 STIFFENED
MODTECH	59629	79	1993	24X40	50
MODTECH	60811	243	1993	24/36X40	70
MODTECH	61172	243	1994	24X40	50
MODTECH	61614	243	1994	24X40	70
MODTECH	65965	243	1996	24X40	50
MODTECH	66341	275	1999	24X40	50
MODTECH	67333	266	1997	24X40	50
MODTECH	69746	266	1997	24X40	50
MODTECH	04-100727	282	1999	36X40	50 & 70
MODTECH	04-101194	270	1999	24X40	50
MODTECH	04-101527	270	1999	24X40	50
MODTECH	04-101550	275	2001	24X40	50 STIFFENED
MODTECH	04-101749	04-101419	2000	24X40	50
MODTECH	04-101984	04-101419	2000	24X40	50
MODTECH	04-103334	04-101268	2001	24X40	50
MODTECH	04-103375	04-101419	2001	24X40	50
MODTECH	04-104244	04-101419	2002	24X40	50
MODTECH	04-104310	04-101419	2002	24/48X40	50
MODTECH	04-104439	04-101268	2002	36X40	70
MODTECH	04-104591	04-101268	2002	36X40	70
MODTECH	04-104496	04-101419	2002	24X40	50
MODTECH	04-105018	04-101268	2003	36X40	50
MODTECH	04-105224	04-101268	2003	48X40	70
MODTECH	04-105225	04-101268	2003	36X40	70
MODTECH	04-105239	04-101449	2003	24X40	70
MODTECH	04-105337	04-101801	2003	24X40	50
MODTECH	04-105400	04-101801	2003	48X40	70
MODTECH	04-105455	04-104796	2003	24X40	50
MODTECH	04-106196	04-104796	2004	24X40	50
MODTECH	04-106445	04-104801	2004	24/36X40	70
MODTECH	04-106821	04-104801	2006	24X40	70
MODTECH	04-107069	04-104801	2005	36X40	70
MODTECH	04-107616	04-104801	2005	36X40	50 & 70

APPROVED A# NUMBERS APPLICABLE TO THIS PC PLAN

MANUFACTURER OF MODULAR BUILDING	DSA A# NUMBERS OF MODULAR BUILDINGS	BASED ON PC	YEAR OF APPROVAL OF MODULAR BUILDING	MODULAR BUILDING SIZE	DESIGN FLOOR LIVE LOAD
MODULAR STRUCTURES INTERNATIONAL	52938	57	1990	24x40	50
MODULAR STRUCTURES INTERNATIONAL	68435	323	1997	24x40	50
MODULAR STRUCTURES INTERNATIONAL	68505	323	1997	24x40	50
MODULAR STRUCTURES INTERNATIONAL	04-100118	100073	1998	24x40	50
MODULAR STRUCTURES INTERNATIONAL	04-101403	362	1999	24x40	50
MODULAR STRUCTURES INTERNATIONAL	04-101905	04-101244	2000	24x40	70
MODULAR STRUCTURES INTERNATIONAL	04-101926	04-101244	2000	36x40	50
MODULAR STRUCTURES INTERNATIONAL	04-102499	04-101244	2000	36x40	70
MODULAR STRUCTURES INTERNATIONAL	04-103266	04-101244	2001	48x40	50
MODULAR STRUCTURES INTERNATIONAL	04-104262	04-101244	2002	24x40	50
MODULAR STRUCTURES INTERNATIONAL	04-104575	04-101244	2002	48x40	50
MODULAR STRUCTURES INTERNATIONAL	04-105157	04-101244	2003	24x40	50
MODULAR STRUCTURES INTERNATIONAL	04-105451	04-104778	2003	36x40	50
MODULAR STRUCTURES INTERNATIONAL	04-105453	04-104778	2003	24x40	50
MODULAR STRUCTURES INTERNATIONAL	04-106168	04-104778	2003	48x40	50
MODULAR STRUCTURES INTERNATIONAL	04-106179	04-104778	2004	24x40	50
MODULAR STRUCTURES INTERNATIONAL	04-106292	04-104778	2004	48x40	50
MODULAR STRUCTURES INTERNATIONAL	04-106743	04-104778	2004	24x40	50
MODULAR STRUCTURES INTERNATIONAL	04-107072	04-104778	2005	48x40	70
MODULAR STRUCTURES INTERNATIONAL	04-107176	04-104778	2005	48x40	50
MODULAR STRUCTURES INTERNATIONAL	04-107207	04-104778	2006	36x40	50
MODULAR STRUCTURES INTERNATIONAL	04-107251	04-104778	2006	36x40	50
MODULAR STRUCTURES INTERNATIONAL	04-107310	04-104778	2006	24x40	50
PACESETTER INDUSTRIES, INC.	68794	330	1997	24X40	50
PACESETTER INDUSTRIES, INC.	02-100158	330	1998	24X40	50
PACESETTER INDUSTRIES, INC.	02-100159	374	1998	36X40	50
PACESETTER INDUSTRIES, INC.	02-100391	330	1998	24X40	50
PACESETTER INDUSTRIES, INC.	02-100537	330	1998	24X40	50
PACESETTER INDUSTRIES, INC.	02-100544	374	1998	48X40	70
PACESETTER INDUSTRIES, INC.	02-100729	330	1998	36X40	50
PACESETTER INDUSTRIES, INC.	02-100770	374	1999	48X40	50
PACESETTER INDUSTRIES, INC.	02-100771	374	1999	48X40	50
PACESETTER INDUSTRIES, INC.	02-100871	330	1998	24X40	50
PACESETTER INDUSTRIES, INC.	02-100974	330	1998	24X40	50
PACESETTER INDUSTRIES, INC.	02-100975	374	1999	48X40	50
PACESETTER INDUSTRIES, INC.	02-101417	374	1999	48X40	50
PACESETTER INDUSTRIES, INC.	02-101592	330	1998	24X40	50
PACESETTER INDUSTRIES, INC.	02-101636	02-101190	1999	24X40	50
PACESETTER INDUSTRIES, INC.	02-102152	02-101530	2000	48X40	50 & 70
PACESETTER INDUSTRIES, INC.	02-102211	02-101528	2000	24X40	50
PACESETTER INDUSTRIES, INC.	02-102420	02-101530	2000	48X40	50
SILVER CREEK INDUSTRIES, INC	04-108040	04-107557	2006	48X40	50
SILVER CREEK INDUSTRIES, INC	04-108041	04-107557	2006	36X40	50
SILVER CREEK INDUSTRIES, INC	04-108179	04-107557	2006	24X40	70
SILVER CREEK INDUSTRIES, INC	04-110018	04-107557	2007	36X40	70
SILVER CREEK INDUSTRIES, INC	04-110019	04-107557	2008	48X40	70
SILVER CREEK INDUSTRIES, INC	03-113409	04-109299	2010	36/48X40	50 & 70
SILVER CREEK INDUSTRIES, INC	04-113414	04-109299	2010	24X40	50 & 70
STEELGARD, INC	47743	N/A	1986	24X40	50
STEELGARD, INC	52900	N/A	1990	24X40	50
STEELGARD, INC	54177	N/A	1990	24X40	50

STATE AGENCY APPROVAL

KSC COMPANY
13617 12 STREET, SUITE #B, CHINO, CA 91710
OFFICE: (909) 740-3120, FAX: (909) 726-8470
WEBSITE: WWW.SKCCOMPANY.COM
MANUFACTURER #MF1279666 DEALER # DL1279666
GC LIC # 992118 SBE CERTIFIED

DISTRICT/CUSTOMER NAME:

SCHOOL/SITE NAME:

SHEET TITLE:

APPLICATION NUMBERS

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-119961 PC
REVIEWED FOR
SS ☑ FLS ☐ ACS ☐ CG ☐
DATE: 09/24/2020

PROFESSIONAL OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No.3602 STRUCTURAL STATE OF CALIFORNIA

Date Signed: September 22, 2020

FIRM: EXL STRUCTURAL ENGINEERING, INC
ADDRESS: 4091 RIVERSIDE DRIVE, SUITE #114
CITY: CHINO, CA 91710
PHONE: (909) 613-0234

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

F-1A

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APPROVED A# NUMBERS APPLICABLE TO THIS PC PLAN

MANUFACTURER OF MODULAR BUILDING	DSA A# NUMBERS OF MODULAR BUILDINGS	BASED ON PC	YEAR OF APPROVAL OF MODULAR BUILDING	MODULAR BUILDING SIZE	DESIGN FLOOR LIVE LOAD
AMERICAN MODULAR SYSTEMS	02-106598	02-104931	2004	12X40	70
AMERICAN MODULAR SYSTEMS	02-107256	02-104931	2005	12X40	70
AMERICAN MODULAR SYSTEMS	02-107435	02-104931	2005	12X40	70
AMERICAN MODULAR SYSTEMS	02-107511	02-104931	2005	12X40	70
AMERICAN MODULAR SYSTEMS	02-107700	02-104931	2005	12X40	70
AMERICAN MODULAR SYSTEMS	02-107701	02-104931	2005	12X40	70
AMERICAN MODULAR SYSTEMS	02-107908	02-104931	2006	12X40	70
AMERICAN MODULAR SYSTEMS	02-107909	02-104931	2006	12X40	70
AMERICAN MODULAR SYSTEMS	02-107981	02-104931	2006	12X40	70
AMERICAN MODULAR SYSTEMS	02-108494	02-104931	2006	12X40	70
AMERICAN MODULAR SYSTEMS	02-108593	02-104931	2007	12X40	70
AMERICAN MODULAR SYSTEMS	02-109376	02-104931	2007	12X40	70
AURORA MODULAR	69026	272	1997	12X40	70
AURORA MODULAR	80015	272	1997	12X40	70
AURORA MODULAR	04-102745	04-101179	2000	12X40	70
AURORA MODULAR	04-103359	04-101179	2001	12X40	70
AURORA MODULAR	04-103321	04-101179	2001	12X40	70
AURORA MODULAR	04-103534	04-101179	2001	12X40	70
AURORA MODULAR	04-103601	04-101179	2001	12X40	70
AURORA MODULAR	04-103923	04-101179	2002	12X40	70
AURORA MODULAR	04-103924	04-101179	2002	12X40	70
AURORA MODULAR	04-103947	04-101179	2002	12X40	70
AURORA MODULAR	04-105650	04-104822	2003	12X40	70
CLASS LEASING	04-115911	04-114945	2017	12X40	100
MODULAR STRUCTURES INT'L	04-101347	04-100332	1999	12X40	50
MODULAR STRUCTURES INT'L	04-101425	04-100332	1999	12X40	50
MODULAR STRUCTURES INT'L	04-101927	04-101334	2001	12X40	50
MODULAR STRUCTURES INT'L	04-103408	04-101334	2001	12X40	50
MODULAR STRUCTURES INT'L	04-103600	04-101334	2001	12X40	50
MODULAR STRUCTURES INT'L	04-104148	04-101334	2004	12X40	70
MODULAR STRUCTURES INT'L	04-105096	04-101334	2003	12X40	70
MODULAR STRUCTURES INT'L	04-105526	04-104780	2003	12X40	70
MODULAR STRUCTURES INT'L	04-106423	04-104780	2004	12X40	70
MODULAR STRUCTURES INT'L	04-106424	04-104780	2004	12X40	70
MODTECH	52479	N/A	1989	12X40	50
MODTECH	04-101770	284	1999	12X40	50
MODTECH	04-103533	04-101447	2001	12X40	50
MODTECH	01-103972	04-101447	2001	12X40	50
MODTECH	04-103922	04-101447	2001	12X40	50
MODTECH	04-104384	04-101447	2002	12X40	70
MODTECH	04-104442	04-101447	2002	12X40	70
MODTECH	04-105223	04-101447	2003	12X40	70
MODTECH	04-105281	04-104800	2003	12X40	70
MODTECH	04-105484	04-104800	2003	12X40	70
MODTECH	04-105546	04-104800	2003	12X40	70
MODTECH	04-106425	04-104800	2004	12X40	70
MODTECH	04-107068	04-104800	2005	12X40	70
MODTECH	04-107648	04-104800	2005	12X40	70
MODTECH	04-107742	04-104800	2005	12X40	70

APPROVED A# NUMBERS APPLICABLE TO THIS PC PLAN

MANUFACTURER OF MODULAR BUILDING	DSA A# NUMBERS OF MODULAR BUILDINGS	BASED ON PC	YEAR OF APPROVAL OF MODULAR BUILDING	MODULAR BUILDING SIZE	DESIGN FLOOR LIVE LOAD
SKC COMPANY	#04-118301	N/A	2019	12X40	70
SKC COMPANY	#04-118713	N/A	2019	12X40	70
SKC COMPANY	#04-119009	N/A	2020	12X40	70
SKC COMPANY	#04-119160	N/A	2020	12X40	70

STATE AGENCY APPROVAL

SKC COMPANY

13617 12 STREET, SUITE #B, CHINO, CA 91710
OFFICE: (909) 740-3120, FAX: (909) 726-9470
WEBSITE: WWW.SKCCOMPANY.COM

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

DISTRICT/CUSTOMER NAME:

SCHOOL/SITE NAME:

SHEET TITLE:

APPLICATION NUMBERS

PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC
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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-119361 PC
REVIEWED FOR
SS ☑ FLS ☐ ACS ☐ CG ☐
DATE: 09/24/2020

PROFESSIONAL OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No.3602 STRUCTURAL STATE OF CALIFORNIA

Date Signed: September 22, 2020

FIRM: EXL STRUCTURAL ENGINEERING, INC
ADDRESS: 4091 RIVERSIDE DRIVE, SUITE #114
CITY: CHINO, CA 91710
PHONE: (909) 613-0234

PROJECT SPECIFIC PROFESSIONAL OF RECORD

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CITY:
PHONE:

REVISIONS

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

SHEET NUMBER

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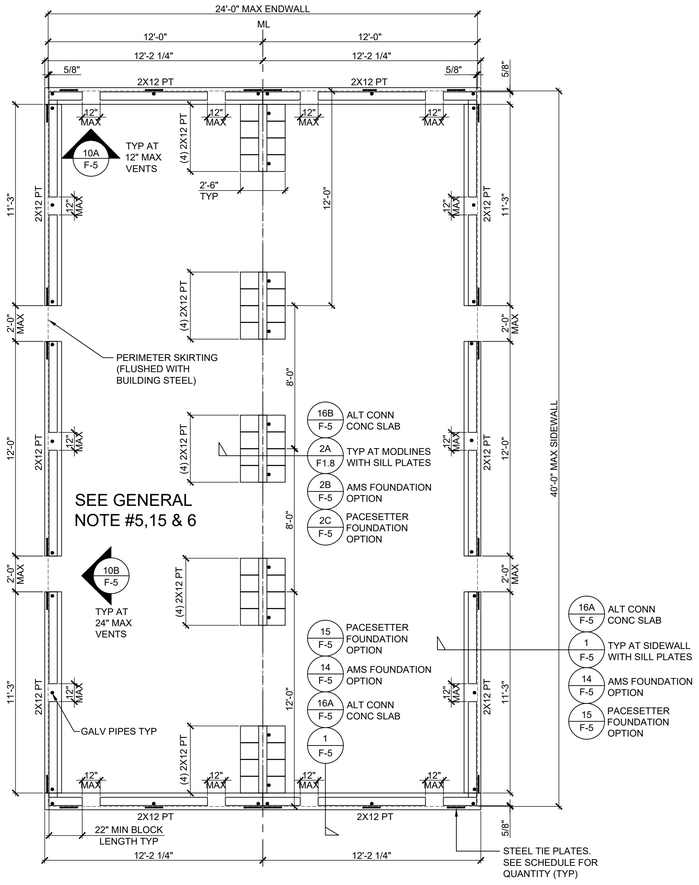
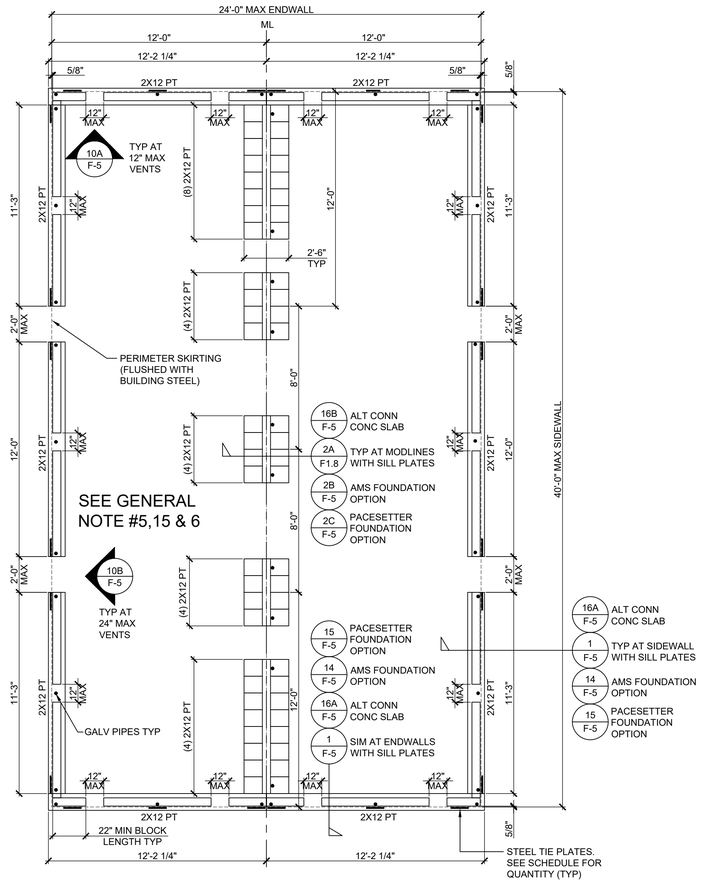


FOUNDATION PLAN FOR 50# FLOOR LOAD

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



FOUNDATION PLAN FOR 50+15# FLOOR LOAD

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

GENERAL NOTES:

1. SEE SHEET F-1 FOR GENERAL NOTES
2. SEE SHEET F-5 FOR TYPICAL NOTES
3. SEE SHEET F-8 FOR UNDER FLOOR VENTILATION CALCULATIONS
4. CONTINUOUS TOP PLATE NOT SHOWN FOR CLARITY
5. MINIMUM (3) SIDES FOR CROSS VENTILATION. THE ENDWALL SIDE MUST BE VENTED
6. ALLOWABLE SOIL BEARING = 1000 PSF, PER DSA IR 16-1
7. ALL NAILS FOR PLATE TO PLATE NAILING SHALL BE 16D GALV BOX. ALL NAILS FOR PLYWOOD SKIRTING SHALL BE 8D GALV BOX. ALL FOUNDATION NAILS SHALL BE HOT DIPPED GALVANIZED WITH A MIN OF 1 OZ OF ZINC PER SQ FT
8. UNDER FLOOR DRAINAGE SHALL BE PROVIDED TO PREVENT WATER FROM PONDING BENEATH THE STRUCTURE. UNDER FLOOR DRAINAGE SHALL BE NOTED AND DETAILED ON THE PROJECT SPECIFIC SITE PLANS
9. ALL 2X PLATES AT EXTERIOR FOUNDATIONS AND MODLINES TO BE 4 FT OR 8 FT LONG WITH NO SPLICES. IF SHORTER PIECES O 2X PLATES ARE TO BE USED, SPLICE PLATES PER DETAIL #9/F-5
10. SEE DETAIL SHEET F-5 AND F-5 FOR MAXIMUM HEIGHT OF WOOD FOUNDATION
11. SEE SHEET F-5 FOR ADJACENT BUILDING FOUNDATION
12. SEE SHEET F-5 FOR OPTIONAL DETAILS AT CONCRETE PAVING.
13. ALL WOOD FOUNDATIONS TO BE MIN HEM-FIR #2 OR BETTER
14. MAXIMUM 2,160 SQ FT FOR STAND-ALONE WOOD PAD FOUNDATION SYSTEM PER DSA IR 16-1.13
15. OPTION - PER SECTION 1203.4.2 EXCEPTION 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
16. 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

TIE PLATE SCHEDULE

BUILDING SIZE	FLOOR LOAD PSF	PER EA SIDE ENDWALL	PER EA SIDE SIDEWALL	GRAND TOTAL
24'x40'	50	11	11	44
	50+15	11	11	44

STATE AGENCY APPROVAL

KSC COMPANY
13617 12 STREET, SUITE #B, CHINO, CA 91710
OFFICE: (909) 740-3120, FAX: (909) 726-9470
WEBSITE: WWW.SKCCOMPANY.COM
MANUFACTURER #MF1279666 DEALER # DL1279666
GC LIC # 992118 SBE CERTIFIED

DISTRICT/CUSTOMER NAME:

SCHOOL/SITE NAME:

SHEET TITLE:

24X40 PLAN

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-119361 PC
REVIEWED FOR
SS ☑ FLS ☐ ACS ☐ CG ☐
DATE: 09/24/2020

PROFESSIONAL OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No.3602 STRUCTURAL STATE OF CALIFORNIA

Date Signed: September 22, 2020

FIRM: EXL STRUCTURAL ENGINEERING, INC
ADDRESS: 4091 RIVERSIDE DRIVE, SUITE #114
CITY: CHINO, CA 91710
PHONE: (909) 613-0234

PROJECT SPECIFIC PROFESSIONAL OF RECORD

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CITY:
PHONE:

REVISIONS

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

SHEET NUMBER

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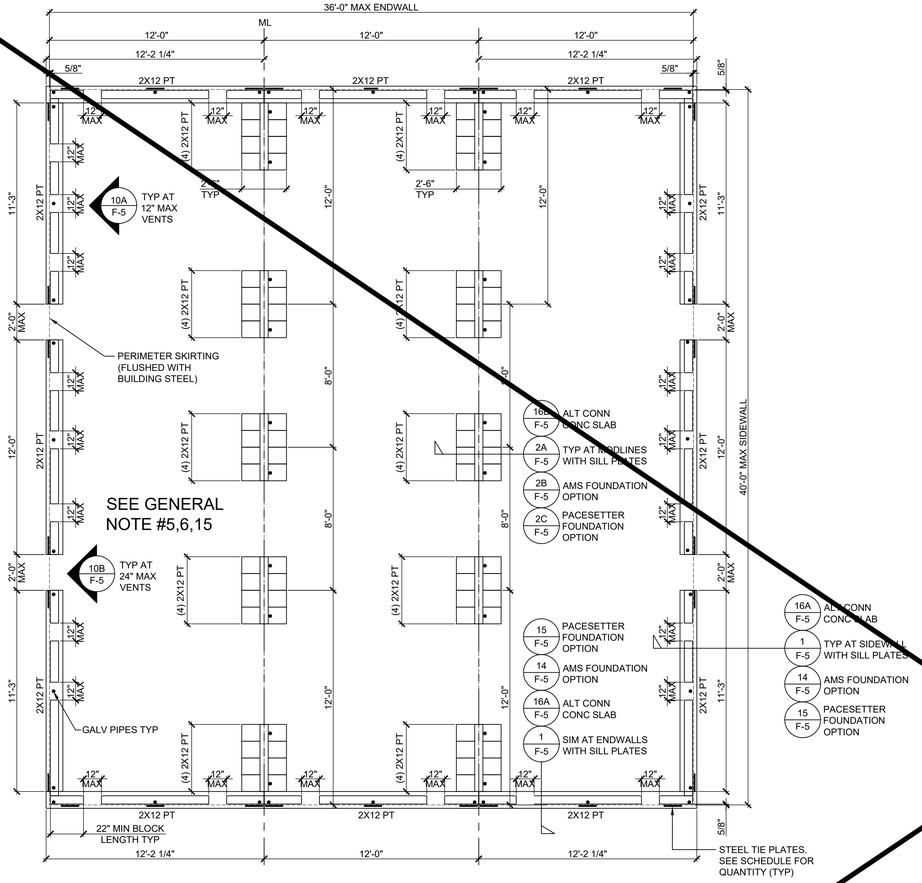
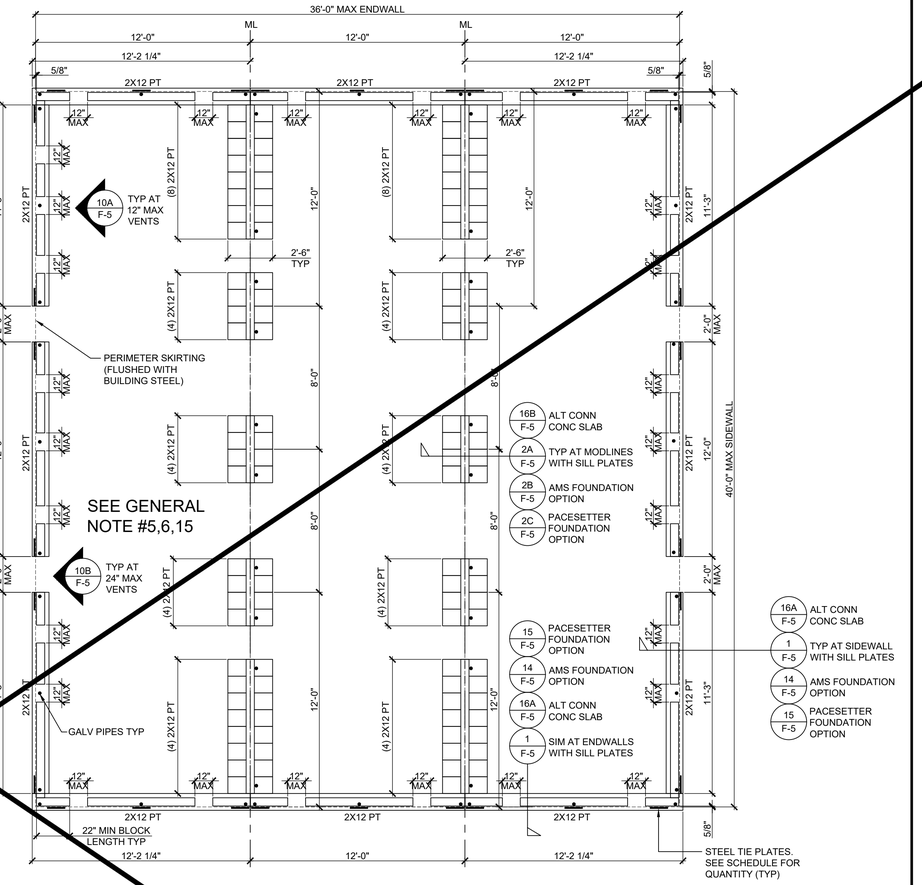


FOUNDATION PLAN FOR 50# FLOOR LOAD

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



FOUNDATION PLAN FOR 50+15# FLOOR LOAD

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

GENERAL NOTES:

1. SEE SHEET F-1 FOR GENERAL NOTES
2. SEE SHEET F-5 FOR TYPICAL NOTES
3. SEE SHEET F-8 FOR UNDER FLOOR VENTILATION CALCULATIONS
4. CONTINUOUS TOP PLATE NOT SHOWN FOR CLARITY
5. MINIMUM (3) SIDES FOR CROSS VENTILATION. THE ENDWALL SIDE MUST BE VENTED
6. ALLOWABLE SOIL BEARING = 1000 PSF, PER DSA IR 16-1
7. ALL NAILS FOR PLATE TO PLATE NAILING SHALL BE 16D GALV BOX. ALL NAILS FOR PLYWOOD SKIRTING SHALL BE 8D GALV BOX. ALL FOUNDATION NAILS SHALL BE HOT DIPPED GALVANIZED WITH A MIN OF 1 OZ OF ZINC PER SQ FT
8. UNDER FLOOR DRAINAGE SHALL BE PROVIDED TO PREVENT WATER FROM PONDING BENEATH THE STRUCTURE. UNDER FLOOR DRAINAGE SHALL BE NOTED AND DETAILED ON THE PROJECT SPECIFIC SITE PLANS
9. ALL 2X PLATES AT EXTERIOR FOUNDATIONS AND MODLINES TO BE 4 FT OR 8 FT LONG WITH NO SPLICES. IF SHORTER PIECES O 2X PLATES ARE TO BE USED, SPLICE PLATES PER DETAIL #9/F-5
10. SEE DETAIL SHEET F-5 AND F-5 FOR MAXIMUM HEIGHT OF WOOD FOUNDATION
11. SEE SHEET F-5 FOR ADJACENT BUILDING FOUNDATION
12. SEE SHEET F-5 FOR OPTIONAL DETAILS AT CONCRETE PAVING.
13. ALL WOOD FOUNDATIONS TO BE MIN HEM-FIR #2 OR BETTER
14. MAXIMUM 2,160 SQ FT FOR STAND-ALONE WOOD PAD FOUNDATION SYSTEM PER DSA IR 16-1.13
15. OPTION - PER SECTION 1203.4.2 EXCEPTION 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
16. 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

TIE PLATE SCHEDULE

BUILDING SIZE	FLOOR LOAD PSF	PER EA SIDE ENDWALL	PER EA SIDE SIDEWALL	GRAND TOTAL
36'x40'	50	16	16	64
	50+15	16	16	64

STATE AGENCY APPROVAL

KSC COMPANY
13617 12 STREET, SUITE #B, CHINO, CA 91710
OFFICE: (909) 740-3120, FAX: (909) 726-9470
WEBSITE: WWW.SKCCOMPANY.COM
MANUFACTURER #MF1279666 DEALER # DL1279666
GC LIC # 992118 SBE CERTIFIED

DISTRICT/CUSTOMER NAME:

SCHOOL/SITE NAME:

SHEET TITLE:

36X40 PLAN

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No.3602 STRUCTURAL STATE OF CALIFORNIA

Date Signed: September 22, 2020

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ADDRESS: 4091 RIVERSIDE DRIVE, SUITE #114
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REVISIONS

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

SHEET NUMBER

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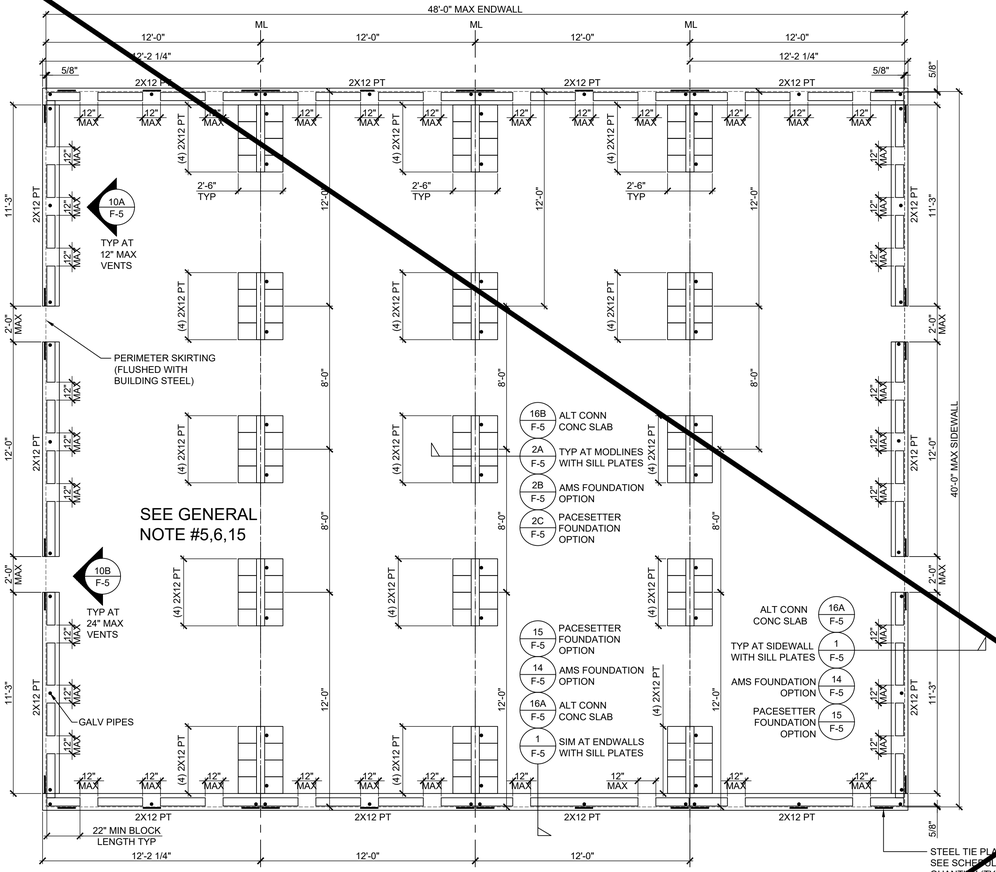
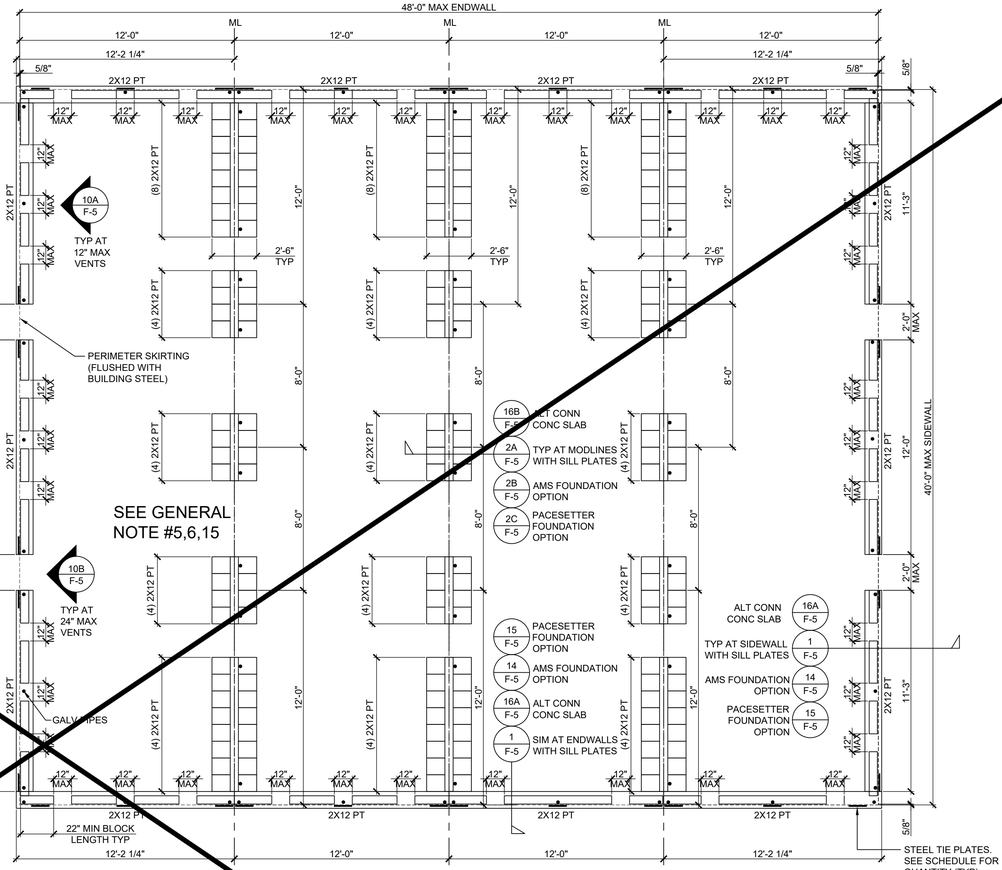


FOUNDATION PLAN FOR 50# FLOOR LOAD

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



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

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

GENERAL NOTES:

1. SEE SHEET F-1 FOR GENERAL NOTES
2. SEE SHEET F-5 FOR TYPICAL NOTES
3. SEE SHEET F-8 FOR UNDER FLOOR VENTILATION CALCULATIONS
4. CONTINUOUS TOP PLATE NOT SHOWN FOR CLARITY
5. MINIMUM (3) SIDES FOR CROSS VENTILATION. THE ENDWALL SIDE MUST BE VENTED
6. ALLOWABLE SOIL BEARING = 1000 PSF, PER DSA IR 16-1
7. ALL NAILS FOR PLATE TO PLATE NAILING SHALL BE 16D GALV BOX. ALL NAILS FOR PLYWOOD SKIRTING SHALL BE 8D GALV BOX. ALL FOUNDATION NAILS SHALL BE HOT DIPPED GALVANIZED WITH A MIN OF 1 OZ OF ZINC PER SQ FT
8. UNDER FLOOR DRAINAGE SHALL BE PROVIDED TO PREVENT WATER FROM PONDING BENEATH THE STRUCTURE. UNDER FLOOR DRAINAGE SHALL BE NOTED AND DETAILED ON THE PROJECT SPECIFIC SITE PLANS
9. ALL 2X PLATES AT EXTERIOR FOUNDATIONS AND MODLINES TO BE 4 FT OR 8 FT LONG WITH NO SPLICES. IF SHORTER PIECES O 2X PLATES ARE TO BE USED, SPLICE PLATES PER DETAIL #9/F-5
10. SEE DETAIL SHEET F-5 AND F-5 FOR MAXIMUM HEIGHT OF WOOD FOUNDATION
11. SEE SHEET F-5 FOR ADJACENT BUILDING FOUNDATION
12. SEE SHEET F-5 FOR OPTIONAL DETAILS AT CONCRETE PAVING.
13. ALL WOOD FOUNDATIONS TO BE MIN HEM-FIR #2 OR BETTER
14. MAXIMUM 2,160 SQ FT FOR STAND-ALONE WOOD PAD FOUNDATION SYSTEM PER DSA IR 16-1.13
15. OPTION - PER SECTION 1203.4.2 EXCEPTION 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
16. 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

TIE PLATE SCHEDULE

BUILDING SIZE	FLOOR LOAD PSF	PER EA SIDE ENDWALL	PER EA SIDE SIDEWALL	GRAND TOTAL
48'x40'	50	21	21	84
	50+15	21	21	84

STATE AGENCY APPROVAL

SKC COMPANY
13617 12 STREET, SUITE #B, CHINO, CA 91710
OFFICE: (909) 740-3120, FAX: (909) 726-9470
WEBSITE: WWW.SKCCOMPANY.COM
MANUFACTURER #MF1279666 DEALER # DL1279666
GC LIC # 992118 SBE CERTIFIED

DISTRICT/CUSTOMER NAME:

SCHOOL/SITE NAME:

SHEET TITLE:

48X40 PLAN

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PROFESSIONAL OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No.3602 STRUCTURAL STATE OF CALIFORNIA

Date Signed: September 22, 2020

FIRM: EXL STRUCTURAL ENGINEERING, INC
ADDRESS: 4091 RIVERSIDE DRIVE, SUITE #114
CITY: CHINO, CA 91710
PHONE: (909) 613-0234

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REVISIONS

1 -
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DRAWER:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

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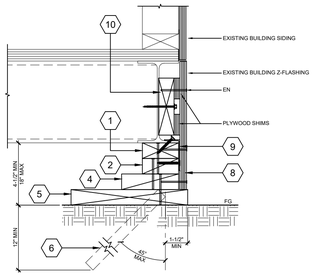
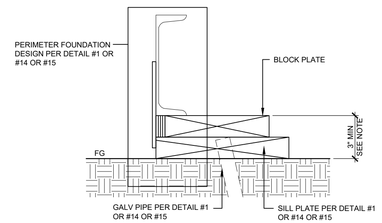


PERIMETER PAD @ PACESETTER INDUSTRIES

SCALE: 3" = 1'-0"

12

NOTE:
SEE GENERAL NOTE #4

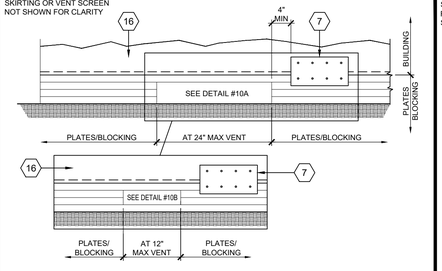


MINIMUM HEIGHT AT SLOPED GRADE

SCALE: 3" = 1'-0"

8

NOTE:
SKIRTING OR VENT SCREEN NOT SHOWN FOR CLARITY

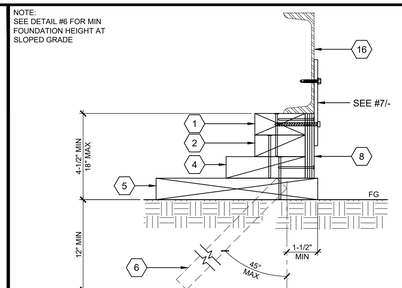


VENTS AT LEVELED GRADE

SCALE: 1" = 1'-0"

4

NOTE:
SEE DETAIL #6 FOR MIN FOUNDATION HEIGHT AT SLOPED GRADE



TYPICAL PERIMETER PAD DETAIL

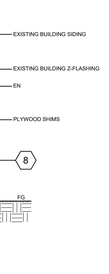
SCALE: 3" = 1'-0"

1

KEY NOTES

1. CONTINUOUS 2X4 MIN TOP PLATE. INSTALL NAIL TO EACH PAD WITH .135" X 3" MIN BOX NAILS AT 1" OC STAGGERED & (2) .135" X 3" MIN BOX NAILS AT EACH END OF SPLICE, MIN 1 1/2" PENETRATION
2. BLOCK PLATES (2X4 MIN AT 50# FLOOR LOAD OR 2X6 MIN AT 65# FLOOR LOAD) - .135 X 3" MIN BOX NAILS AT 1" OC. (2) .135 X 3" MIN 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 (2X6 AT 50# FLOOR LOAD OR 2X8 AT 65# FLOOR LOAD). 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. 12" X 6" X 10 GA STEEL TIE PLATE (PRIME AND PAINTED) WITH (8) 5/16" HOLES AS SHOWN FOR (4) 1/4"x1" LONG SDS INTO CHANNEL & (4) 1/4"x3" 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 OR SIDING PERIMETER SKIRTING. NAIL TO FOUNDATION PLATES WITH .135 X 2" MIN BOX NAILS @ 6" OC END NAILING AND 12" OC FIELD NAILING
9. 12 GA SHEAR TRANSFER ANGLE AT PACESETTER INDUSTRIES ONLY. SECURE LONG LEG VERTICAL TO FOUNDATION WITH #14 X 2" MIN FLAT HEAD EXTERIOR WOOD SCREWS. SECURE SHORT LEG HORIZONTAL TO BUILDING FLOOR FRAME WITH #14 X 2" MIN FLAT HEAD OR HEX HEAD EXTERIOR WOOD SCREWS (MAX 45°)
10. 2X6 NAILER PLATE SECURED WITH 1/4" X 2-1/2" MIN HEX WASHER HEAD TEK SCREWS AT THE FOLLOWING SPACING:

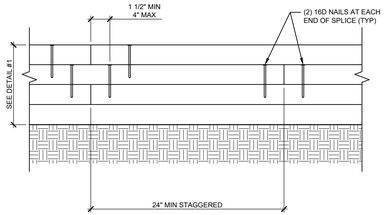
    12X40 BUILDING - 4" OC MAX AT ENDWALLS & 12" OC MAX SIDEWALLS
    24X40 BUILDING - 5" OC MAX AT ENDWALLS & 8" OC MAX SIDEWALLS
    36X40 BUILDING - 5" OC MAX AT ENDWALLS & 5" OC MAX SIDEWALLS
    48X40 BUILDING - 5" OC MAX AT ENDWALLS & 4" OC MAX SIDEWALLS
11. MODLINE - CONT PLATE (2X10 MIN AT PACESETTER ONLY AND 2X6 MIN ELSEWHERE). NAIL .135 X 3" MIN AT 12" OC AND (2) .135 X 3" MIN NAILS AT EACH END
12. MODLINE - SIDE BY SIDE PRESSURE TREATED SILL PADS (SEE PLAN)
13. NOT USED
14. NOT USED
15. NOT USED
16. FLOOR CHANNEL (REFER TO DSA APPROVED BUILDING MANUFACTURE PLANS)
17. MODLINE CONNECTION (REFER TO DSA APPROVED BUILDING MANUFACTURE PLANS)
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. 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)
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



PERIMETER PAD @ AMERICAN MODULAR SYSTEM

SCALE: 3" = 1'-0"

13

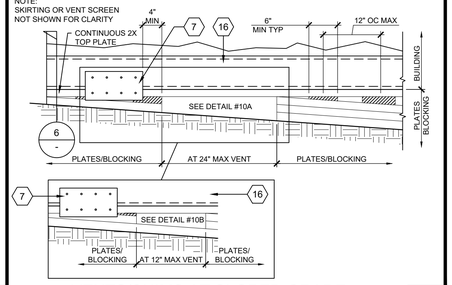


TYPICAL SPLICE DETAIL

SCALE: 3" = 1'-0"

9

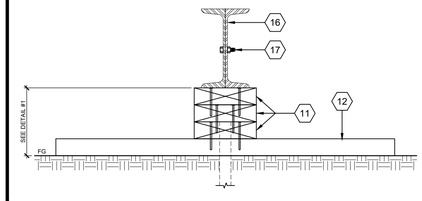
NOTE:
SKIRTING OR VENT SCREEN NOT SHOWN FOR CLARITY



VENTS/SHIMS AT SLOPED GRADE

SCALE: 3" = 1'-0"

5



TYPICAL MODLINE DETAIL

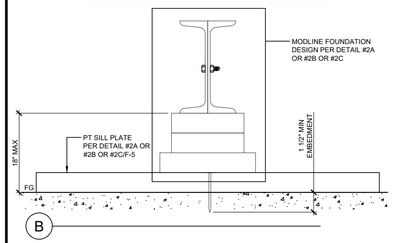
SCALE: 3" = 1'-0"

2A

NOTE:
SEE DETAIL #6 FOR MIN FOUNDATION HEIGHT AT SLOPED GRADE

21 SPACING SCHEDULE

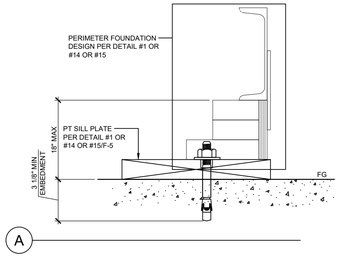
FLOOR LOAD		50	50+15		
ALL MODULES	S/S	(1) SHOT PIN PER PLATE			
	CONT	17" OC	17" OC		



B

20 SPACING SCHEDULE

FLOOR LOAD		50	50+15		
12'x40'	ENDWALL	10" OC	10" OC		
	SIDEWALL	17" OC	17" OC		
24'x40'	ENDWALL	10" OC	10" OC		
	SIDEWALL	17" OC	17" OC		
36'x40'	ENDWALL	10" OC	10" OC		
	SIDEWALL	11" OC	11" OC		
48'x40'	ENDWALL	10" OC	10" OC		
	SIDEWALL	8" OC	8" OC		

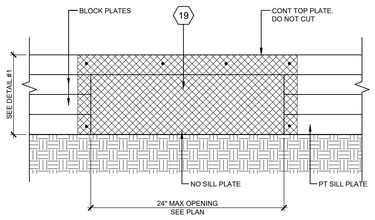


A

ALT FOUNDATION TO CONC SLAB

SCALE: 6" = 1'-0"

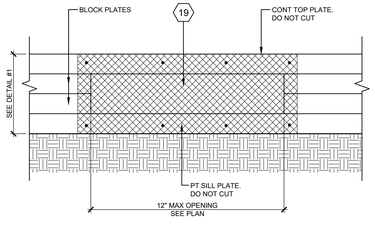
14



24" MAX VENT DETAIL

SCALE: 3" = 1'-0"

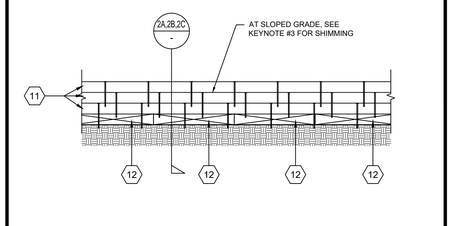
10A



12" MAX VENT DETAIL

SCALE: 3" = 1'-0"

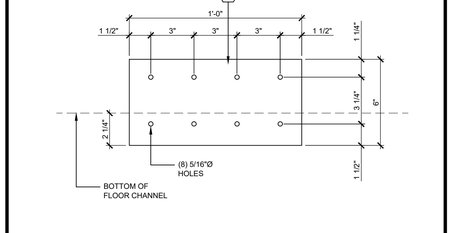
10B



MODLINE DETAIL (SIDE VIEW)

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

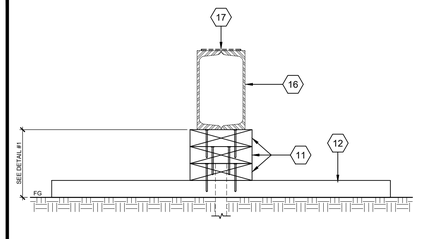
6



TYPICAL FOUNDATION TIE PLATES

SCALE: 3" = 1'-0"

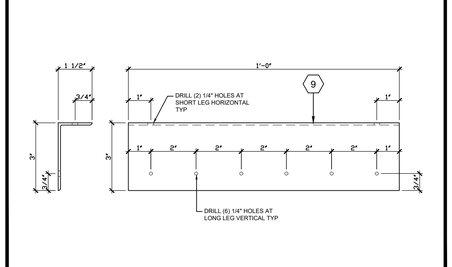
7A



MODLINE @ PACESETTER INDUSTRIES

SCALE: 3" = 1'-0"

2C



SHEAR TRANSFER @ PACESETTER INDUSTRIES

SCALE: 6" = 1'-0"

11

7B

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. ALL NAILS SHALL BE HOT-DIPPED GALVANIZED

3

STATE AGENCY APPROVAL

SKSC COMPANY
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MANUFACTURER #MF1279666 DEALER # DLS 1279666
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REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No.3602 STRUCTURAL STATE OF CALIFORNIA

Date Signed: September 22, 2020

FIRM: EXL STRUCTURAL ENGINEERING, INC
ADDRESS: 4091 RIVERSIDE DRIVE, SUITE #114
CITY: CHINO, CA 91710
PHONE: (909) 613-0234

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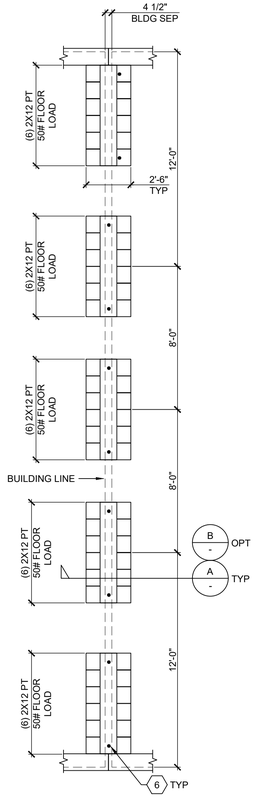
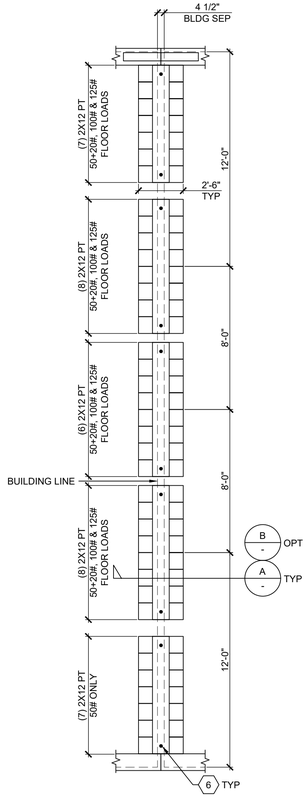


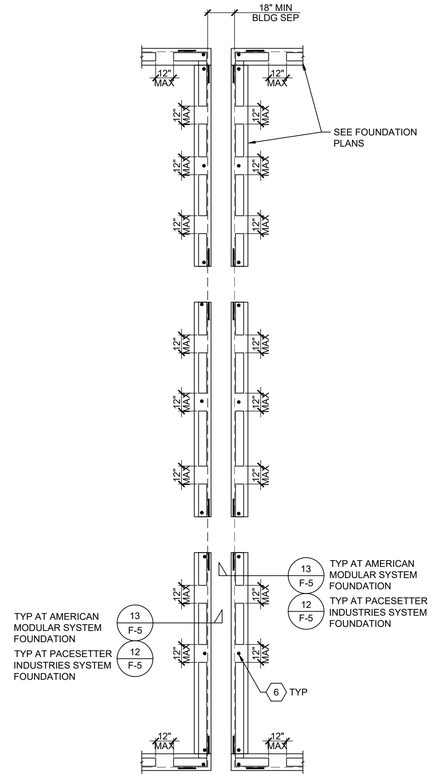
ADJACENT BLDG PAD FOR 50# FLOOR LOAD

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



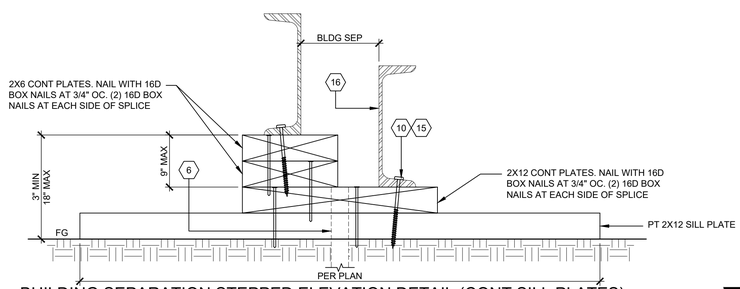
ADJACENT BLDG PAD FOR 50+15# FLOOR LOAD

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



18" ADJACENT BLDG OPTION (AMS BLDG)

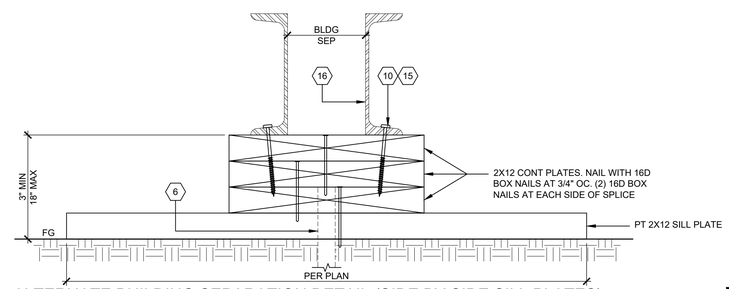
SCALE: 1/4" = 1'-0"



BUILDING SEPARATION STEPPED ELEVATION DETAIL (CONT SILL PLATES)

SCALE: 3" = 1'-0"

B



ALTERNATE BUILDING SEPARATION DETAIL (SIDE BY SIDE SILL PLATES)

SCALE: 3" = 1'-0"

A

KEY NOTES

1. NOT USED
2. NOT USED
3. NOT USED
4. NOT USED
5. NOT USED
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. NOT USED
8. NOT USED
9. NOT USED
10. 5/8"Ø X 4" LAG BOLT AT MODLINE (SEE KEYNOTE #15 FOR AMOUNT). LAG SCREW SHALL BE INSTALLED VERTICALLY OR AT A MAXIMUM 45 DEGREES
11. NOT USED
12. NOT USED
13. NOT USED
14. NOT USED
15. 11/16"Ø HOLE IN FLOOR CHANNEL FOR 5/8"Ø LAG SCREW. PROVIDE:
    (9) LAG SCREWS AT 12'X40'
    (11) LAG SCREWS AT 24'X40'
    (20) LAG SCREWS AT 36'X40'
    (27) LAG SCREWS AT 48'X40'
16. FLOOR CHANNEL PER BUILDING MANUFACTURER STRUCTURAL

STATE AGENCY APPROVAL

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No.3602
STRUCTURAL
STATE OF CALIFORNIA

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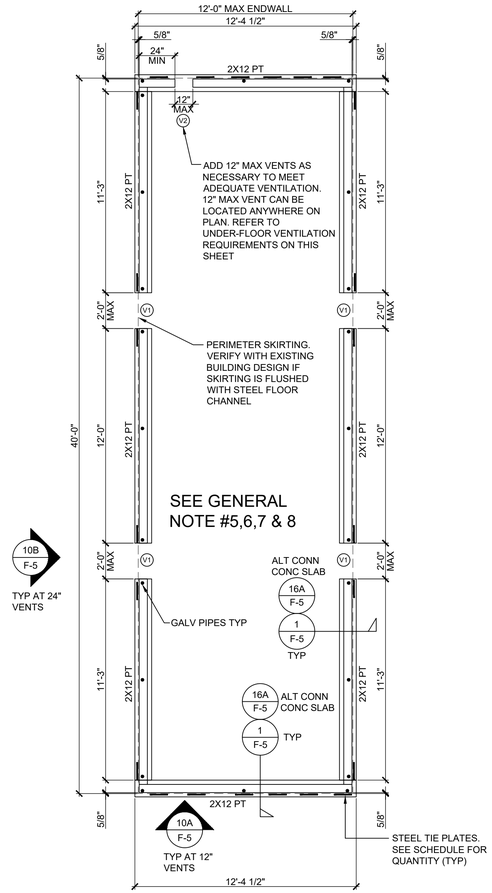

FOUNDATION PLAN

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 VENTILIZATION
6. THE ENDWALL SIDE MUST BE VENTED
7. OPTION - PER SECTION 1203.4.2 EXCEPTION 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		
SILL PLATE (END WALL)	2x12 CONT	2x12 CONT		
SILL PLATE (SIDE WALL)	2x12 CONT	2x12 CONT		
BLOCK PLATE (END WALL)	2x6	2x6		
BLOCK PLATE (SIDE WALL)	2x6	2x6		
BLOCKPLATE (END WALL)	2x6	2x6		
BLOCKPLATE (SIDE WALL)	2x6	2x6		
CONT. TOP PLATE	2x4	2x4		

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	7	7	28

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

V2 12" MAX VENTS TO BE USE: 10
12" X 1.5" = 18 / 144 = 0.125 SF
TOTAL VENTILATION: (10) VENTS X 0.125 = 1.25 SF

OVERALL VENTILATION:
2.0 + 1.25 = 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 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

V2 12" MAX VENTS TO BE USE: 1
12" X 3" = 36 / 144 = 0.25 SF
TOTAL VENTILATION: (1) VENTS X 0.25 = 0.25 SF

OVERALL VENTILATION:
3.0 + 0.25 = 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" TO 18" MAX 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

V2 12" MAX VENTS TO BE USE: 0
(ONE VENT IS REQUIRED TO BE USE FOR 3RD SIDE CROSS VENTILATION)

OVERALL VENTILATION:
4.0 + 0.0 = 4.0 SF

4.0 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

STATE AGENCY APPROVAL

SKC COMPANY
13617 12 STREET, SUITE #B, CHINO, CA 91710
OFFICE: (909) 740-3120, FAX: (909) 726-9470
WEBSITE: WWW.SKCCOMPANY.COM
MANUFACTURER #MF1279666 DEALER # DL1279666
GC LIC # 992118 SBE CERTIFIED

DISTRICT/CUSTOMER NAME:

SCHOOL/SITE NAME:

SHEET TITLE:

12X40 PLAN

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-119361 PC
REVIEWED FOR
SS ☑ FLS ☐ ACS ☐ CG ☐
DATE: 09/24/2020

PROFESSIONAL OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No.3602 STRUCTURAL STATE OF CALIFORNIA

Date Signed: September 22, 2020

PROJECT SPECIFIC PROFESSIONAL OF RECORD

REVISIONS
1 -
2 -
3 -
4 -
5 -

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

SHEET NUMBER

F-7

9/21/2020 8:21:56 AM

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 VENTILATION REQUIRED

(V1) 24" MAX VENTS TO BE USE: 4
24" X 3" = 72 / 144 = 0.5 SF
TOTAL VENTILATION: (4) VENTS X 0.5 = 2.0 SF

(V2) 12" MAX VENTS TO BE USE: 36
12" X 1.5" = 18 / 144 = 0.125 SF
TOTAL VENTILATION: (36) VENTS X 0.125 = 4.5 SF

OVERALL VENTILATION:
2.0 + 4.5 = 6.5 SF

6.5 SF > 6.4 SF VENTILATION REQUIREMENT = OK

NOTE:
SITE CONDITIONS WHERE THE 24" MAX FIXED VENT
IS BLOCKED OR SLOPED GRADES, ADD ADDITIONAL
12" MAX VENTS AS NECESSARY. THE 12" MAX VENT
CAN BE INSTALLED ANYWHERE ON THE PLAN ABIDING
BY DETAIL #10A/F-5. MIN (3) SIDES FOR CROSS VENTILATION

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 VENTILATION REQUIRED

(V1) 24" MAX VENTS TO BE USE: 4
24" X 4.5" = 108 / 144 = 0.75 SF
TOTAL VENTILATION: (4) VENTS X 0.75 = 3.0 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

OVERALL VENTILATION:
3.0 + 3.5 = 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 #10A/F-5. MIN (3) SIDES FOR CROSS VENTILATION

BASED ON 8" 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 VENTILATION REQUIRED

(V1) 24" MAX VENTS TO BE USE: 4
24" X 6" = 144 / 144 = 1.0 SF
TOTAL VENTILATION: (4) VENTS X 1.0 = 4.0 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 = 2.7 SF

OVERALL VENTILATION:
4.0 + 2.7 = 6.7 SF

6.7 SF > 6.4 SF VENTILATION REQUIREMENT = OK

NOTE:
ADDITIONAL 12" MAX VENTS WILL BE REQUIRED WHEN
FOUNDATION PAD HEIGHT IS LESS THAN 9" 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. MIN (3) SIDES FOR CROSS VENTILATION

BASED ON 9" 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 VENTILATION REQUIRED

(V1) 24" MAX VENTS TO BE USE: 4
24" X 7.5" = 180 / 144 = 1.25 SF
TOTAL VENTILATION: (4) VENTS X 1.25 = 5.0 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

OVERALL VENTILATION:
5.0 + 1.5 = 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 9" 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. MIN (3) SIDES FOR CROSS VENTILATION

BASED ON 10 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 VENTILATION REQUIRED

(V1) 24" MAX VENTS TO BE USE: 4
24" X 9" = 216 / 144 = 1.5 SF
TOTAL VENTILATION: (4) VENTS X 1.5 = 6.0 SF

(V2) 12" MAX VENTS TO BE USE: 1
12" X 7.5" = 90 / 144 = 0.6 SF
TOTAL VENTILATION: (1) VENTS X 0.6 = 0.6 SF

OVERALL VENTILATION:
6.0 + 0.6 = 6.6 SF

6.6 SF > 6.4 SF VENTILATION REQUIREMENT = OK

NOTE:
ADDITIONAL 12" MAX VENTS WILL BE REQUIRED WHEN
FOUNDATION PAD HEIGHT IS LESS THAN 9" 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. MIN (3) SIDES FOR CROSS VENTILATION

BASED ON 12"-18" MAX 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 VENTILATION REQUIRED

(V1) 24" MAX VENTS TO BE USE: 4
24" X 10.5" = 252 / 144 = 1.75 SF
TOTAL VENTILATION: (4) VENTS X 1.75 = 7.0 SF

(V2) 12" MAX VENTS TO BE USE: 0
(ONE VENT IS REQUIRED TO BE USE FOR 3RD SIDE CROSS VENTILATION)

OVERALL VENTILATION:
7.0 + 0.0 = 7.0 SF

7.0 SF > 6.4 SF VENTILATION REQUIREMENT = OK

NOTE:
THE 12" MAX VENTS IS NOT REQUIRED WHERE PAD HEIGHT
IS 12" AND TALLER HOWEVER IS REQUIRED FOR 3RD SIDE
CROSS VENTILATION. FOR A TRADE OFF, ONE OF THE TWO
24" MAX FIXED VENT CAN BE ELIMINATED AND COMPENSATED
TO THE 3RD SIDE FOUNDATION. SITE CONDITIONS
WHERE THE 24" MAX FIXED VENT IS BLOCKED OR
SLOPED GRADES, THE 12" MAX VENT MUST BE CONSIDERED.
THE 12" MAX VENT CAN BE INSTALLED ANYWHERE ON THE PLAN
ABIDING BY DETAIL #10A/F-5

NOTE:
THE CALCULATION CHARTS ARE FOR REFERENCE ONLY AND CAN BE USE WHERE SITE CONDITION VARY BETWEEN 1/4" - 1" FROM ONE END OF THE FOUNDATION TO THE OTHER. THE CHART SHALL NOT BE CONSIDERED WHERE SEVERE GRADE SLOPES EXIST. PAD HEIGHTS THAT MEASURES IN BETWEEN THE HEIGHTS CALCULATED ON THE CHARTS, THE SMALLER PAD HEIGHT SHALL BE CONSIDERED

24 X 40 FOUNDATION VENT CALCULATION

BASED ON 4 1/2" PAD HEIGHT

BUILDING SQUARE FOOTAGE: 36' X 40' = 1,440 SF

REQUIRED VENTILATION: 1 SF / 150 SF (ALLOWED BY CODE)
1,440 SF / 150 SF = 9.6 SF VENTILATION REQUIRED

(V1) 24" MAX VENTS TO BE USE: 4
24" X 3" = 72 / 144 = 0.5 SF
TOTAL VENTILATION: (4) VENTS X 0.5 = 2.0 SF

(V2) 12" MAX VENTS TO BE USE: 61
12" X 1.5" = 18 / 144 = 0.125 SF
TOTAL VENTILATION: (61) VENTS X 0.125 = 7.6 SF

OVERALL VENTILATION:
2.0 + 7.6 = 9.6 SF

9.6 SF > 9.6 SF VENTILATION REQUIREMENT = OK

NOTE:
SITE CONDITIONS WHERE THE 24" MAX FIXED VENT
IS BLOCKED OR SLOPED GRADES, ADD ADDITIONAL
12" MAX VENTS AS NECESSARY. THE 12" MAX VENT
CAN BE INSTALLED ANYWHERE ON THE PLAN ABIDING
BY DETAIL #10A/F-5. MIN (3) SIDES FOR CROSS VENTILATION

BASED ON 6" PAD HEIGHT

BUILDING SQUARE FOOTAGE: 36' X 40' = 1,440 SF

REQUIRED VENTILATION: 1 SF / 150 SF (ALLOWED BY CODE)
1,440 SF / 150 SF = 9.6 SF VENTILATION REQUIRED

(V1) 24" MAX VENTS TO BE USE: 4
24" X 4.5" = 108 / 144 = 0.75 SF
TOTAL VENTILATION: (4) VENTS X 0.75 = 3.0 SF

(V2) 12" MAX VENTS TO BE USE: 27
12" X 3" = 36 / 144 = 0.25 SF
TOTAL VENTILATION: (27) VENTS X 0.25 = 6.8 SF

OVERALL VENTILATION:
3.0 + 6.8 = 9.8 SF

9.8 SF > 9.6 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. MIN (3) SIDES FOR CROSS VENTILATION

BASED ON 8" PAD HEIGHT

BUILDING SQUARE FOOTAGE: 36' X 40' = 1,440 SF

REQUIRED VENTILATION: 1 SF / 150 SF (ALLOWED BY CODE)
1,440 SF / 150 SF = 9.6 SF VENTILATION REQUIRED

(V1) 24" MAX VENTS TO BE USE: 4
24" X 6" = 144 / 144 = 1.0 SF
TOTAL VENTILATION: (4) VENTS X 1.0 = 4.0 SF

(V2) 12" MAX VENTS TO BE USE: 15
12" X 4.5" = 54 / 144 = 0.38 SF
TOTAL VENTILATION: (15) VENTS X 0.38 = 5.7 SF

OVERALL VENTILATION:
4.0 + 5.7 = 9.7 SF

9.7 SF > 9.6 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. MIN (3) SIDES FOR CROSS VENTILATION

BASED ON 9" PAD HEIGHT

BUILDING SQUARE FOOTAGE: 36' X 40' = 1,440 SF

REQUIRED VENTILATION: 1 SF / 150 SF (ALLOWED BY CODE)
1,440 SF / 150 SF = 9.6 SF VENTILATION REQUIRED

(V1) 24" MAX VENTS TO BE USE: 4
24" X 7.5" = 180 / 144 = 1.25 SF
TOTAL VENTILATION: (4) VENTS X 1.25 = 5.0 SF

(V2) 12" MAX VENTS TO BE USE: 10
12" X 6" = 72 / 144 = 0.5 SF
TOTAL VENTILATION: (10) VENTS X 0.5 = 5.0 SF

OVERALL VENTILATION:
5.0 + 5.0 = 10.0 SF

10.0 SF > 9.6 SF VENTILATION REQUIREMENT = OK

NOTE:
ADDITIONAL 12" MAX VENTS WILL BE REQUIRED WHEN
FOUNDATION PAD HEIGHT IS LESS THAN 9" 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. MIN (3) SIDES FOR CROSS VENTILATION

BASED ON 10 1/2" PAD HEIGHT

BUILDING SQUARE FOOTAGE: 36' X 40' = 1,440 SF

REQUIRED VENTILATION: 1 SF / 150 SF (ALLOWED BY CODE)
1,440 SF / 150 SF = 9.6 SF VENTILATION REQUIRED

(V1) 24" MAX VENTS TO BE USE: 4
24" X 9" = 216 / 144 = 1.5 SF
TOTAL VENTILATION: (4) VENTS X 1.5 = 6.0 SF

(V2) 12" MAX VENTS TO BE USE: 6
12" X 7.5" = 90 / 144 = 0.6 SF
TOTAL VENTILATION: (6) VENTS X 0.6 = 3.6 SF

OVERALL VENTILATION:
6.0 + 3.6 = 9.6 SF

9.6 SF > 9.6 SF VENTILATION REQUIREMENT = OK

NOTE:
ADDITIONAL 12" MAX VENTS WILL BE REQUIRED WHEN
FOUNDATION PAD HEIGHT IS LESS THAN 9" 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. MIN (3) SIDES FOR CROSS VENTILATION

BASED ON 12" PAD HEIGHT

BUILDING SQUARE FOOTAGE: 36' X 40' = 1,440 SF

REQUIRED VENTILATION: 1 SF / 150 SF (ALLOWED BY CODE)
1,440 SF / 150 SF = 9.6 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

(V2) 12" MAX VENTS TO BE USE: 4
12" X 9" = 108 / 144 = 0.75 SF
TOTAL VENTILATION: (4) VENTS X 0.75 = 3.0 SF

OVERALL VENTILATION:
7.0 + 3.0 = 10.0 SF

10.0 SF > 9.6 SF VENTILATION REQUIREMENT = OK

NOTE:
ADDITIONAL 12" MAX VENTS WILL BE REQUIRED WHEN
FOUNDATION PAD HEIGHT IS LESS THAN 12" 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. MIN (3) SIDES FOR CROSS VENTILATION

NOTE:
THE CALCULATION CHARTS ARE FOR REFERENCE ONLY AND CAN BE USE WHERE SITE CONDITION VARY BETWEEN 1/4" - 1" FROM ONE END OF THE FOUNDATION TO THE OTHER. THE CHART SHALL NOT BE CONSIDERED WHERE SEVERE GRADE SLOPES EXIST. PAD HEIGHTS THAT MEASURES IN BETWEEN THE HEIGHTS CALCULATED ON THE CHARTS, THE SMALLER PAD HEIGHT SHALL BE CONSIDERED

36 X 40 FOUNDATION VENT CALCULATION

BASED ON 13 1/2" PAD HEIGHT

BUILDING SQUARE FOOTAGE: 36' X 40' = 1,440 SF

REQUIRED VENTILATION: 1 SF / 150 SF (ALLOWED BY CODE)
1,440 SF / 150 SF = 9.6 SF VENTILATION REQUIRED

(V1) 24" MAX VENTS TO BE : 4
24" X 12" = 288 / 144 = 2.0 SF
TOTAL VENTILATION: (4) VENTS X 2.0 = 8.0 SF

(V2) 12" MAX VENTS TO BE USE: 2
12" X 10.5" = 126 / 144 = 0.9 SF
TOTAL VENTILATION: (2) VENTS X 0.9 = 1.8 SF

OVERALL VENTILATION:
8.0 + 1.8 =9.8 SF

9.8 SF > 9.6 SF VENTILATION REQUIREMENT = OK

NOTE:
ADDITIONAL 12" MAX VENTS WILL BE REQUIRED WHEN
FOUNDATION PAD HEIGHT IS LESS THAN 12" 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. MIN (3) SIDES FOR CROSS VENTILATION

BASED ON 15" PAD HEIGHT

BUILDING SQUARE FOOTAGE: 36' X 40' = 1,440 SF

REQUIRED VENTILATION: 1 SF / 150 SF (ALLOWED BY CODE)
1,440 SF / 150 SF = 9.6 SF VENTILATION REQUIRED

(V1) 24" MAX VENTS TO BE : 4
24" X 13.5" = 324 / 144 = 2.25 SF
TOTAL VENTILATION: (4) VENTS X 2.25 = 9.0 SF

(V2) 12" MAX VENTS TO BE USE: 1
12" X 12" = 144 / 144 = 1.0 SF
TOTAL VENTILATION: (1) VENTS X 1.0 = 1.0 SF

OVERALL VENTILATION:
9.0 + 1.0 =10.0 SF

10.0 SF > 9.6 SF VENTILATION REQUIREMENT = OK

NOTE:
ADDITIONAL 12" MAX VENTS WILL BE REQUIRED WHEN
FOUNDATION PAD HEIGHT IS LESS THAN 12" 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. MIN (3) SIDES FOR CROSS VENTILATION

BASED ON 16 1/2" - 18" MAX PAD HEIGHT

BUILDING SQUARE FOOTAGE: 36' X 40' = 1,440 SF

REQUIRED VENTILATION: 1 SF / 150 SF (ALLOWED BY CODE)
1,440 SF / 150 SF = 9.6 SF VENTILATION REQUIRED

(V1) 24" MAX VENTS TO BE : 4
24" X 15" = 360 / 144 = 2.5 SF
TOTAL VENTILATION: (4) VENTS X 2.5 = 10.0 SF

(V2) 12" MAX VENTS TO BE USE: 0
(ONE VENT IS REQUIRED TO BE USE FOR 3RD SIDE CROSS VENTILATION)

OVERALL VENTILATION:
10.0 + 0.0 =10.0 SF

10.0 SF > 9.6 SF VENTILATION REQUIREMENT = OK

NOTE:
THE 12" MAX VENTS IS NOT REQUIRED WHERE PAD HEIGHT
IS 16 1/2" AND TALLER HOWEVER IS REQUIRED FOR 3RD SIDE
CROSS VENTILATION. FOR A TRADE OFF, ONE OF THE TWO
24" MAX FIXED VENT CAN BE ELIMINATED AND COMPENSATED
TO THE 3RD SIDE FOUNDATION. SITE CONDITIONS WHERE THE 24" MAX
FIXED VENT IS BLOCKED OR SLOPED GRADES, THE 12" MAX VENT MUST
BE CONSIDERED. THE 12" MAX VENT CAN BE INSTALLED ANYWHERE ON
THE PLAN ABIDING BY DETAIL #10A/F-5

BASED ON 4 1/2" PAD HEIGHT

BUILDING SQUARE FOOTAGE: 48' X 40' = 1,920 SF

REQUIRED VENTILATION: 1 SF / 150 SF (ALLOWED BY CODE)
1,920 SF / 150 SF = 12.8 SF VENTILATION REQUIRED

(V1) 24" MAX VENTS TO BE USE: 4
24" X 3" = 72 / 144 = 0.5 SF
TOTAL VENTILATION: (4) VENTS X 0.5 = 2.0 SF

(V2) 12" MAX VENTS TO BE USE: 87
12" X 1.5" = 18 / 144 = 0.125 SF
TOTAL VENTILATION: (87) VENTS X 0.125 = 10.9 SF

OVERALL VENTILATION:
2.0 + 10.9 = 12." SF

12.9 SF > 12.8 SF VENTILATION REQUIREMENT = OK

NOTE:
SITE CONDITIONS WHERE THE 24" MAX FIXED VENT
IS BLOCKED OR SLOPED GRADES, ADD ADDITIONAL
12" MAX VENTS AS NECESSARY. THE 12" MAX VENT
CAN BE INSTALLED ANYWHERE ON THE PLAN ABIDING
BY DETAIL #10A/F-5. MIN (3) SIDES FOR CROSS VENTILATION

BASED ON 6" PAD HEIGHT

BUILDING SQUARE FOOTAGE: 48' X 40' = 1,920 SF

REQUIRED VENTILATION: 1 SF / 150 SF (ALLOWED BY CODE)
1,920 SF / 150 SF = 12.8 SF VENTILATION REQUIRED

(V1) 24" MAX VENTS TO BE USE: 4
24" X 4.5" = 108 / 144 = 0.75 SF
TOTAL VENTILATION: (4) VENTS X 0.75 = 3.0 SF

(V2) 12" MAX VENTS TO BE USE: 40
12" X 3" = 36 / 144 = 0.25 SF
TOTAL VENTILATION: (40) VENTS X 0.25 = 10.0 SF

OVERALL VENTILATION:
3.0 + 10.0 = 13.0 SF

13.0 SF > 12.8 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. MIN (3) SIDES FOR CROSS VENTILATION

BASED ON 8" PAD HEIGHT

BUILDING SQUARE FOOTAGE: 48' X 40' = 1,920 SF

REQUIRED VENTILATION: 1 SF / 150 SF (ALLOWED BY CODE)
1,920 SF / 150 SF = 12.8 SF VENTILATION REQUIRED

(V1) 24" MAX VENTS TO BE USE: 4
24" X 6" = 144 / 144 = 1.0 SF
TOTAL VENTILATION: (4) VENTS X 1.0 = 4.0 SF

(V2) 12" MAX VENTS TO BE USE: 24
12" X 4.5" = 54 / 144 = 0.38 SF
TOTAL VENTILATION: (24) VENTS X 0.38 = 9.12 SF

OVERALL VENTILATION:
4.0 + 9.12 = 13.12 SF

13.12 SF > 12.8 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. MIN (3) SIDES FOR CROSS VENTILATION

NOTE:
THE CALCULATION CHARTS ARE FOR REFERENCE ONLY AND CAN BE USE WHERE SITE CONDITION VARY BETWEEN 1/4" - 1" FROM ONE END OF THE FOUNDATION TO THE OTHER. THE CHART SHALL NOT BE CONSIDERED WHERE SEVERE GRADE SLOPES EXIST. PAD HEIGHTS THAT MEASURES IN BETWEEN THE HEIGHTS CALCULATED ON THE CHARTS, THE SMALL PAD HEIGHT SHALL BE CONSIDERED

BASED ON 9" PAD HEIGHT

BUILDING SQUARE FOOTAGE: 48' X 40' = 1,920 SF

REQUIRED VENTILATION: 1 SF / 150 SF (ALLOWED BY CODE)
1,440 SF / 150 SF = 12.8 SF VENTILATION REQUIRED

(V1) 24" MAX VENTS TO BE USE: 4
24" X 7.5" = 180 / 144 = 1.25 SF
TOTAL VENTILATION: (4) VENTS X 1.25 = 5.0 SF

(V2) 12" MAX VENTS TO BE USE: 16
12" X 6" = 72 / 144 = 0.5 SF
TOTAL VENTILATION: (16) VENTS X 0.5 = 8.0 SF

OVERALL VENTILATION:
5.0 + 8.0 = 13.0 SF

13.0 SF > 12.8 SF VENTILATION REQUIREMENT = OK

NOTE:
ADDITIONAL 12" MAX VENTS WILL BE REQUIRED WHEN
FOUNDATION PAD HEIGHT IS LESS THAN 9" 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. MIN (3) SIDES FOR CROSS VENTILATION

BASED ON 10 1/2" PAD HEIGHT

BUILDING SQUARE FOOTAGE: 48' X 40' = 1,920 SF

REQUIRED VENTILATION: 1 SF / 150 SF (ALLOWED BY CODE)
1,440 SF / 150 SF = 12.8 SF VENTILATION REQUIRED

(V1) 24" MAX VENTS TO BE USE: 4
24" X 9" = 216 / 144 = 1.5 SF
TOTAL VENTILATION: (4) VENTS X 1.5 = 6.0 SF

(V2) 12" MAX VENTS TO BE USE: 12
12" X 7.5" = 90 / 144 = 0.6 SF
TOTAL VENTILATION: (12) VENTS X 0.6 = 3.6 SF

OVERALL VENTILATION:
6.0 + 3.6 = 13.2 SF

13.2 SF > 12.8 SF VENTILATION REQUIREMENT = OK

NOTE:
ADDITIONAL 12" MAX VENTS WILL BE REQUIRED WHEN
FOUNDATION PAD HEIGHT IS LESS THAN 9" 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. MIN (3) SIDES FOR CROSS VENTILATION

BASED ON 12" PAD HEIGHT

BUILDING SQUARE FOOTAGE: 48' X 40' = 1,920 SF

REQUIRED VENTILATION: 1 SF / 150 SF (ALLOWED BY CODE)
1,440 SF / 150 SF = 12.8 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

(V2) 12" MAX VENTS TO BE USE: 8
12" X 9" = 108 / 144 = 0.75 SF
TOTAL VENTILATION: (8) VENTS X 0.75 = 6.0 SF

OVERALL VENTILATION:
7.0 + 6.0 = 13.0 SF

13.0 SF > 12.8 SF VENTILATION REQUIREMENT = OK

NOTE:
ADDITIONAL 12" MAX VENTS WILL BE REQUIRED WHEN
FOUNDATION PAD HEIGHT IS LESS THAN 12" 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. MIN (3) SIDES FOR CROSS VENTILATION

BASED ON 13 1/2" PAD HEIGHT

BUILDING SQUARE FOOTAGE: 48' X 40' = 1,920 SF

REQUIRED VENTILATION: 1 SF / 150 SF (ALLOWED BY CODE)
1,440 SF / 150 SF = 12.8 SF VENTILATION REQUIRED

(V1) 24" MAX VENTS TO BE : 4
24" X 12" = 288 / 144 = 2.0 SF
TOTAL VENTILATION: (4) VENTS X 2.0 = 8.0 SF

(V2) 12" MAX VENTS TO BE USE: 6
12" X 10.5" = 126 / 144 = 0.8 SF
TOTAL VENTILATION: (8) VENTS X 0.8 = 4.8 SF

OVERALL VENTILATION:
8.0 + 4.8 = 12.8 SF

12.8 SF > 12.8 SF VENTILATION REQUIREMENT = OK

NOTE:
ADDITIONAL 12" MAX VENTS WILL BE REQUIRED WHEN
FOUNDATION PAD HEIGHT IS LESS THAN 12" 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. MIN (3) SIDES FOR CROSS VENTILATION

BASED ON 15" PAD HEIGHT

BUILDING SQUARE FOOTAGE: 48' X 40' = 1,920 SF

REQUIRED VENTILATION: 1 SF / 150 SF (ALLOWED BY CODE)
1,440 SF / 150 SF = 12.8 SF VENTILATION REQUIRED

(V1) 24" MAX VENTS TO BE : 4
24" X 13.5" = 324 / 144 = 2.25 SF
TOTAL VENTILATION: (4) VENTS X 2.25 = 9.0 SF

(V2) 12" MAX VENTS TO BE USE: 4
12" X 12" = 144 / 144 = 1.0 SF
TOTAL VENTILATION: (4) VENTS X 1.0 = 4.0 SF

OVERALL VENTILATION:
9.0 + 4.0 = 13.0 SF

13.0 SF > 12.8 SF VENTILATION REQUIREMENT = OK

NOTE:
ADDITIONAL 12" MAX VENTS WILL BE REQUIRED WHEN
FOUNDATION PAD HEIGHT IS LESS THAN 12" 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. MIN (3) SIDES FOR CROSS VENTILATION

BASED ON 16 1/2" PAD HEIGHT

BUILDING SQUARE FOOTAGE: 48' X 40' = 1,920 SF

REQUIRED VENTILATION: 1 SF / 150 SF (ALLOWED BY CODE)
1,440 SF / 150 SF = 12.8 SF VENTILATION REQUIRED

(V1) 24" MAX VENTS TO BE : 4
24" X 15" = 360 / 144 = 2.5 SF
TOTAL VENTILATION: (4) VENTS X 2.5 = 10.0 SF

(V2) 12" MAX VENTS TO BE USE: 3
12" X 13.5" = 162 / 144 = 1.1 SF
TOTAL VENTILATION: (3) VENTS X 1.0 = 3.0 SF

OVERALL VENTILATION:
10.0 + 3.0 = 13.0 SF

13.0 SF > 12.8 SF VENTILATION REQUIREMENT = OK

NOTE:
ADDITIONAL 12" MAX VENTS WILL BE REQUIRED WHEN
FOUNDATION PAD HEIGHT IS LESS THAN 12" 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. MIN (3) SIDES FOR CROSS VENTILATION

BASED ON 18" MAX PAD HEIGHT

BUILDING SQUARE FOOTAGE: 48' X 40' = 1,920 SF

REQUIRED VENTILATION: 1 SF / 150 SF (ALLOWED BY CODE)
1,440 SF / 150 SF = 12.8 SF VENTILATION REQUIRED

(V1) 24" MAX VENTS TO BE : 4
24" X 16.5" = 396 / 144 = 2.75 SF
TOTAL VENTILATION: (4) VENTS X 2.75 = 11.0 SF

(V2) 12" MAX VENTS TO BE USE: 2
12" X 15" = 180 / 144 = 1.3 SF
TOTAL VENTILATION: (3) VENTS X 1.3 = 2.6 SF

OVERALL VENTILATION:
11.0 + 2.6 = 13.6 SF

13.6 SF > 12.8 SF VENTILATION REQUIREMENT = OK

NOTE:
ADDITIONAL 12" MAX VENTS WILL BE REQUIRED WHEN
FOUNDATION PAD HEIGHT IS LESS THAN 12" 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. MIN (3) SIDES FOR CROSS VENTILATION

48 X 40 FOUNDATION VENT CALCULATION

STATE AGENCY APPROVAL

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

DISTRICT/CUSTOMER NAME:

SCHOOL/SITE NAME:

SHEET TITLE:

UNDER-FLOOR VENTILATION CALCULATION FOR MULTI-WIDE UNITS

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-119361 PC
REVIEWED FOR
SS ☑ FLS ☐ ACS ☐ CG ☐
DATE: 09/24/2020

PROFESSIONAL OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No.3602 STRUCTURAL STATE OF CALIFORNIA

Date Signed: September 22, 2020

PROJECT SPECIFIC PROFESSIONAL OF RECORD

REVISIONS
1 -
2 -
3 -
4 -
5 -

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

SHEET NUMBER

F-8

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GENERAL SPECIFICATIONS

SECTION 1A

1. GENERAL

A. THE REQUIREMENTS OF THE GENERAL CONDITIONS OF THE AGREEMENT AND THIS GENERAL REQUIREMENTS APPLY TO THE SEVERAL TRADE SECTIONS WITH THE SAME FORCE AS THOUGH FULLY REPEATED IN EACH SECTION.

B. NAME BRANDS ARE INDICATED TO ESTABLISH A STANDARD OF QUALITY. ITEMS OF EQUAL OR BETTER QUALITY MAY BE SUBSTITUTED FOR THE LISTED BRAND NAMED PRODUCTS.

2. SCOPE OF WORK

A. THE WORK CONSISTS OF MANUFACTURING OFF-SITE IN A PLANT, AND INSTALLING ON-SITE, MODULAR RELOCATABLE BUILDING AS DEFINED HEREIN AND SHOWN AND DETAILED ON DRAWINGS.

B. ALL REQUIREMENTS OF TITLE 19 AND 24 OF THE STATE OF CALIFORNIA CODE OF REGULATIONS (CCR) RELATING TO INSPECTIONS AND VERIFIED REPORTS SHALL BE COMPLIED WITH AND SHALL INCLUDE:

1. GENERAL RESPONSIBLE CHARGE OF FIELD ADMINISTRATION BY THE PROFESSIONAL OF RECORD.

2. INSPECTION DURING THE COURSE OF CONSTRUCTION BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND THE DISTRICT ARCHITECT. THE INSPECTOR SHALL BE RESPONSIBLE FOR AND APPROVED TO INSPECT THE GENERAL CONSTRUCTION, WELDING, MECHANICAL AND ELECTRICAL WORK. COST OF THESE INSPECTIONS SHALL BE BORNE BY THE SCHOOL DISTRICT.

3. ON SITE INSPECTION OF THE BUILDING INSTALLATION ELECTRICAL AND UTILITY OF THE BUILDING INSTALLATION BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND RETAINED BY THE SCHOOL DISTRICT.

4. OTHER SPECIAL TESTS OR INSPECTIONS AS MAY BE REQUIRED BY THE DIVISION OF THE STATE ARCHITECT. COST OF THESE INSPETIONS/TESTS SHALL BE BORNE BY THE SCHOOL DISTRICT.

3. WORK NOT INCLUDED

A. ALL ON-SITE OR OFF-SITE UTILITIES AND THE CONNECTION OF THEM TO THE BUILDING UNLESS INDICATED ON THE DRAWINGS.

B. ALL LEVELING, GRADING OR OTHER SITE PREPARATION EXCEPT CONCRETE OR WOOD LEVELING STRIPS, WHERE REQUIRED, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

C. FIRE ALARM SYSTEM, FIRE EXTINGUISHER, PROGRAM BELL, CLOCK, PUBLIC ADDRESS SYSTEM, INTERCOM SYSTEM, TV SYSTEM UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

4. WHEELS AND HITCH

SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

5. ACCESSIBILITY OF SITE

THE SCHOOL DISTRICT SHALL PROVIDE ACCESS TO THE SITE FOR THE INSTALLATION OF THE BUILDING. REMOVAL OF TREES, SHRUBS, FENCING, SPRINKLERS, ETC. NECESSARY FOR MOVE-IN AND REMOVAL OF BUILDINGS SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT.

SECTION 2A SITE ASSEMBLY

1. SCOPE OF WORK

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO PREPARE THE BUILDING ELEMENTS, TRANSPORT THEM FROM THE PLANT TO THE SITE AND TO COMPLETE THE ASSEMBLY AT THE SITE.

THE CONDITION OF THE SITE, SUCH AS DRAINAGE AND SOIL BEARING CAPACITY, SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT.

2. ASSEMBLY OF ELEMENTS

A. THE ELEMENTS SHALL BE BROUGHT TO THE SITE ON WHEEL ASSEMBLY AND TRANSFERRED TO THE PREPARED SITE. GREAT CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE ELEMENTS BY RACKING OR BUMPING.

B. CONNECTION OF THE ELEMENTS TOGETHER SHALL BE DONE ACCORDING TO INSTRUCTIONS ON THE DRAWINGS. FLASHING, TRIM AND OTHER LOOSE ITEMS SHALL BE INSTALLED PER PLANS AND DETAILS OF THE ORIGINAL MANUFACTURER'S DRAWINGS.

SECTION 3A CARPENTRY

1. SCOPE OF WORK

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL CARPENTRY.

2. WORKMANSHIP

A. FRAMING- SECURELY NAILED, BRIDGED AND BLOCKED TO FORM RIGID STRUCTURE. WORK CUT, FITTED AND ASSEMBLED LEVEL, PLUMB AND TRUE TO LINE. TRIM IN AS LONG LENGTHS AS POSSIBLE WITH ALL STANDING TRIM IN ONE PIECE. TRIM SEALED AT ALL EDGES.

B. NAILING- IN ACCORDANCE WITH TITLE 24 CCR- TABLE 2304.10.1. NAILS SHALL BE CORROSION RESISTANT BOX NAILS.

C. MACHINE APPLIED NAILING- SHALL HAVE PRIOR DEMONSTRATION AND APPROVAL BY DSA FIELD INSPECTOR AND THE PROFESSIONAL OF RECORD. THE APPROVAL IS SUBJECT TO CONTINUES SATISFACTORY PERFORMANCE. PLYWOOD SHALL HAVE A MINIMUM THICKNESS OF 3/8". 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.

D. TRIM SEALED AT ALL EDGES. SEALANT PAINTED TO MATCH TRIM OR SIDING.

SECTION 4A MATERIAL SPECIFICATIONS

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 NO. 16 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 NO. 2.
2. PLYWOOD SHALL BE AS SHOWN ON THESE DRAWINGS WITH EXTERIOR GLUE IN ACCORDANCE WITH U.S. PRODUCT STANDARD DOC PS 1-07 OR DOC PS-04. SEE DETAILS FOR PLYWOOD GRADE. 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 B18.2.1-2010 AND 2012 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 B18.2.1 AND THE REQUIREMENTS OF THE 2012 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 TABLE11J AND 11K IN 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 ANSIASME STANDARD B18.6.1 AND THE REQUIREMENTS OF THE 2005 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 PER TABLES 11L AND 11M IN 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 BOX NAILS PER ALL REQUIREMENTS OF 2012 NDS. NAILING NOT SPECIFICALLY INDICATED SHALL COMPLY WITH CCR TITLE 24, PART 2, TABLE 2304.10.1. 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 TABLE 11N, 11P, 11Q AND 11R IN NDS. (SEE NAIL EQUIVALENCE BELOW.)
10. NAIL EQUIVALENCE: (PROVIDE MINIMUM NAIL LENGTHS AS REQUIRED FOR SPECIFIED PENETRATION, TYP. U.O.N.)
    6d COMMON EQUALS .113" DIA. - PROVIDE 1.36" MIN POINT PENETRATION
    8d COMMON EQUALS .131" DIA. - PROVIDE *1.57" MIN POINT PENETRATION
    10d COMMON EQUALS .148" DIA. - PROVIDE *1.78" MIN POINT PENETRATION
    16d COMMON EQUALS .162" DIA. - PROVIDE *1.94" MIN POINT PENETRATION
    * 1 1/2" AT 2x MEMBERS
11. PRESSURE PRESERVATIVE TREATMENT SHALL BE PER SECTION 2303.1.9, CCR TITLE 24, PART 2. PROVIDE QUALITY MARK ON ALL TREATED FOUNDATION MEMBERS. PRESSURE TREATED WOOD AND IDENTIFICATION MUST COMPLY WITH CBC 2303.1.9.1. ALL FOUNDATION MEMBERS SHALL BE MARKED AS "FOR GROUND CONTACT (UC4A)" OR "FOR ABOVE GROUND USE (UC3A OR UC3B)" AS APPROPRIATE. 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 PER AWPA STANDARD UI.
12. ONLY MATERIAL IN CONTACT WITH GROUND NEEDS TO BE PRESSURE TREATED, ALL OTHER FOUNDATION LUMBER CAN BE DF OR HF#2 OR EQUAL.
13. IF MACHINE NAILING IS UTILIZED FOR THIS PROJECT, CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF CCR TITLE 24, PART 2. MACHINE NAILING IS SUBJECT TO APPROVAL BY THE STRUCTURAL ENGINEER OR ARCHITECT AND THE DIVISION OF THE STATE ARCHITECT.
14. FASTENERS FOR PRESSURE-PRESERVATIVE TREATED AND FIRE-RETARDANT TREATED WOOD SHALL COMPLY WITH SEC. 2304.10 OF CBC.
15. NAILS AND SPIKES USED IN WET OR EXTERIOR LOCATIONS SHALL COMPLY WITH SEC. 2304.10.1 OF CBC.
16. SHIM MATERIAL SHALL BE PLYWOOD CD EXP 1 OR EQUAL (NOT P.T.).
17. USED LUMBER IN GOOD CONDITION IS ACCEPTABLE FOR USE IN FOUNDATION SYSTEM.

SITE INSTALLATION REQUIREMENTS CLAUSE:

SITE INSTALLATION REQUIREMENTS FOR DSA CLASSROOM BUILDINGS. IN THE CASE OF EQUIPMENT LOCATED IN THE STATE OF CALIFORNIA, THE LESSEE IS RESPONSIBLE FOR THE SITE BEING CLEARED (FREE OF GRASS, SHRUBS, TREES, ETC.) AND GRADED TO WITHIN 4 1/2" OF LEVEL GRADE FOR EACH BUILDING. IF THE SITE EXCEEDS THE 4 1/2" REQUIREMENT ADDITIONAL COSTS MAY BE CHARGED

THAN 9" FROM LEVEL GRADE OR HAVE LESS THAN A 1000 PSF MINIMUM SOIL BEARING PRESSURE. PRIOR TO DELIVERY, THE LESSEE SHALL MARK THE FOUR CORNERS OF THE BUILDING ON THE SITE, INCLUDING THE DOOR LOCATION. SHOULD SPECIAL HANDLING BE REQUIRED TO EITHER PLACE, INSTALL OR REMOVE THE CLASSROOM ON THE LESSEE'S SITE DUE TO SITE OBSTRUCTIONS SUCH AS FENCING, LANDSCAPING, OTHER CLASSROOMS, ETC., ADDITIONAL COSTS WILL BE CHARGED TO LESSEE.

TEST AND INSPECTIONS:

1. PROVIDE ELECTRICAL GROUNDING TEST PER DSA IR E-1
2. NO OTHER TESTS AND INSPECTIONS ARE REQUIRED.

STRUCTURAL STEEL:

1. FABRICATION AND ERECTION OF STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE 14TH EDITION OF THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) (CBC CHAPTER 22A).
2. PRIME ALL STEEL SURFACES WITH AN APPROVED PRIMER, EXCEPT SURFACES TO BE EMBEDDED IN CONCRETE AND SURFACES TO RECEIVE FIELD WELDS. ALTERNATE: PROVIDE GALVANIZED PER ASTM A-123.
3. MATERIALS:

ROLLED STRUCTURAL STEEL SHAPES	ASTM A-992, GRADE 50
ANGLES, MISC STEEL	ASTM A36
MISCELLANEOUS PLATES	ASTM A-572 GRADE 50
STRUCTURAL STEEL PIPES	ASTM A53 TYPE E OR S, GRADE B
TYPICAL STEEL CONNECTION BOLTS	ASTM A-325
MISCELLANEOUS BOLTS	ASTM A-307
GALVANZING	ASTM A-123
RUSH-INHIBITING PRIMER	TT-P-645 ASTM

4. CONNECTED MEMBERS SHALL BEAR ONLY UPON UNTHREADED PORTIONS OF BOLTS
5. BURNING OF HOLES IS NOT ALLOWED
6. BOLT HOLES SHALL BE 1/16" LARGER IN DIAMETER THAN NOMINAL SIZE OF BOLTS USED, UNO

STATE AGENCY APPROVAL

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

DISTRICT/CUSTOMER NAME:

SCHOOL/SITE NAME:

SHEET TITLE:

SPECIFICATIONS

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-119361 PC
REVIEWED FOR
SS ☑ FLS ☐ ACS ☐ CG ☐
DATE: 09/24/2020

PROFESSIONAL OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No.3602 STRUCTURAL STATE OF CALIFORNIA

Date Signed: September 22, 2020

FIRM: EXL STRUCTURAL ENGINEERING, INC
ADDRESS: 4091 RIVERSIDE DRIVE, SUITE #114
CITY: CHINO, CA 91710
PHONE: (909) 613-0234

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

F-9

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GENERAL NOTES

1. ALL WORK SHALL CONFORM TO 2019 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 4-33B, 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. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR)
6. THIS PC IS NOT APPROVED FOR CHAPTER 7A WILDLAND URBAN AREAS

BUILDING CODES AND STANDARDS

2019 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24, CCR
2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, CCR
(2018 INTERNATIONAL BUILDING CODE, VOLUMES 1 & 2 AND 2019 CA AMENDMENTS)
2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24, CCR
(2017 NATIONAL ELECTRICAL CODE AND 2019 CA AMENDMENTS)
2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, CCR
(2018 IAPMO UNIFORM MECHANICAL CODE AND 2019 CA AMENDMENTS)
2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, CCR)
(2018 IAPMO UNIFORM PLUMBING CODE AND 2019 CA AMENDMENTS)
2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24, CCR
2019 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, CCR
(2018 INTERNATIONAL FIRE CODE AND 2019 CA AMENDMENTS)
2019 CALIFORNIA EXISTING BUILDING STANDARDS CODE (CEBC), PART 10, TITLE 24
(2018 INTERNATIONAL EXISTING BUILDING CODE AND 2019 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA GREEN BUILDING STANDARD CODE (CALGREEN), PART 11, TITLE 24 CCR
2019 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHALL REGULATIONS
2016 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS
(PER 2019 CBC PART 2 CHP 35)

APPLICABLE STANDARDS

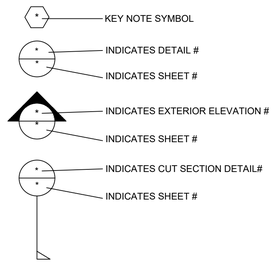
2016 NFPA 13, INSTALLATION OF SPRINKLER SYSTEMS (CALIFORNIA AMENDMENTS)
2016 NFPA 14, INSTALLATION OF STANDPIPE AND HOSE SYSTEMS
2017 NFPA 17, DRY CHEMICAL EXTINGUISHING SYSTEMS
2017 NFPA 17A, WET CHEMICAL EXTINGUISHING SYSTEMS
2016 NFPA 20, INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION
2013 NFPA 22, WATER TANKS FOR PRIVATE FIRE PROTECTION
2016 NFPA 24, INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES
2016 NFPA 72, NATIONAL FIRE ALARM CODE (CALIFORNIA AMENDMENTS)
2016 NFPA 80, STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVE
2015 NFPA 2001, STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS
2003 UL 464, AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES
1999 UL 521, STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS
2002 (R2010) UL 1971, STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED

FOR A COMPLETE LIST OF APPLICABLE STANDARDS REFER TO 2019 CBC
(SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80

KSC COMPANY
13617 12 STREET, SUITE #B, CHINO, CA 91710
OFFICE: (909) 740-3120, FAX: (909) 726-9470
WEBSITE: WWW.SKCCOMPANY.COM
MANUFACTURER #MF1279666 DEALER # DL1279666
GC LIC # 992118 SBE CERTIFIED

2019 CBC
ACCESSIBLE RAMP / LANDING / STAIR PC DESIGN
RISK CATEGORY II
PC 04-119471

DRAWING SYMBOLS & LEGEND



SHEET INDEX

DESIGN PERAMETERS

1. RAMP LIVE LOAD: 100 PSF
2. NO SNOW LOAD
3. NO FLOOD LOADING
4. WIND:
   WIND DESIGN PER ASCE 7-16, CHAPTER 29
   RISK CATEGORY II
   Kzt=1.0
   WIND SPEED=130 MPH
   EXPOSURE='C'
5. SEISMIC:
   RISK CATEGORY=II
   Ie = 1.00
   Ss=3.73 MAX
   S_{s1}=1.30 MAX
   SITE CLASS=D (ASSUMED)
   S_{DS}=2.984 (S_{DS} IS BASED ON CBC 1616A.1.1.2)
   Cs=0.8952 (ASCE 7-16 EQUATION 15.4-5)
   R=3.25 (ASCE 7-16 TABLE 15.4-1)
6. ALLOWABLE SOIL BEARING = 1000 PSF

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 MAXIMUM POINT LOAD DESIGNED ON THE HANDRAILS IS 200#
5. THE RAMP CLEAR WIDTH SET FORTH ON THIS PC IS DESIGNED FOR OCCUPANCIES LESS THAN 300 (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"

STATE AGENCY APPROVAL

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GC LIC # 992118 SBE CERTIFIED

DISTRICT/CUSTOMER NAME:

SCHOOL/SITE NAME:

SHEET TITLE:

COVER SHEET

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-119471 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 10/29/2020

PROFESSIONAL OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMMONS No.3602 STRUCTURAL STATE OF CALIFORNIA

Date Signed: October 22, 2020

FIRM: EXL STRUCTURAL ENGINEERING, INC
ADDRESS: 4091 RIVERSIDE DRIVE, SUITE #114
CITY: CHINO, CA 91710
PHONE: (909) 613-0234

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

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2019 CBC

Application Number: 04-119471
DSA File Number: PC-116
School Name: Accessible Ramp / Landing / Stair PC
Increment Number:
School District: SKC Company
Date Created: 2020-07-25 07:42:52

2019 CBC

IMPORTANT: This form is only a summary of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections listed 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 (2019 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 – Indicates that the special inspection shall be performed by a registered geotechnical engineer, his or her authorized representative.
Periodic – Indicates that a periodic special inspection is required	LOR – 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 – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.
	SI – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum), 2019 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16

Application Number: 04-119471
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	17. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES			
Material Verification and Testing:				
	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 S100-16 Section A3.1 & A3.2, AISI S240-15 Section A3 & A5, AISI S220-15 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.
Inspection:				
☑	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).

	18. HIGH-STRENGTH BOLTS: RCSC 2014			
Material Verification and Testing of High-Strength Bolts, Nuts and Washers:				
	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.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum), 2019 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16

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☐	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 17-8.
Inspection of High-Strength Bolt Installation:				
☐	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.

	19. WELDING:			
		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 (See Appendix for exemptions.)		
Verification of Materials, Equipment, Welders, etc.:				
	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	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.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum), 2019 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16

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	19.1 SHOP WELDING:			
	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.2.1; 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.

	19.2 FIELD WELDING:			
	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.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum), 2019 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16

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☐	c. Inspect reid-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 S240-15 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.

	20. NONDESTRUCTIVE TESTING: 1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16			
	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; ANSI/ASNT CP-189, SNT-TC-1A; AWS D1.1, AWS D1.8; DSA IR 17-2.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum), 2019 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16

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☐	b. Magnetic Particle	Test	LOR	1705A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 N5.5; ANSI/ASNT CP-189, SNT-TC-1A; AWS D1.1, AWS D1.8; DSA IR 17-2.
☐	c.	Test	LOR	

	21. STEEL JOISTS AND TRUSSES: 1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16			
	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	1705A.2.1, 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.

	22. SPRAY APPLIED FIRE-PROOFING: 1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16			
	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.14.
☐	b. Test bond strength.	Test	LOR	1705A.14.6.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum), 2019 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16

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☐	c. Test density.	Test	LOR	1705A.2.5.

	23. 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.

	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: 04-119471
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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 designed based on minimum allowable pressures per CBC Table 1806A.2 and having no 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") 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."
☐	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.

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

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☐	3. Non-bearing non-shear masonry walls may be exempt from certain DSA masonry testing and special inspection items as allowed per DSA IR 21-1.16. 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.
☐	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 gates with maximum leaf span or rolling section for rolling gates of 10' and apex height less than 8'-0" above lowest adjacent grade. When located above circulation or occupied space below, these gates 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 19, 19.1 and/or 19.2 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 19, 19.1 and/or 19.2 of listing above).

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

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☐	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 section 19, 19.1 and/or 19.2 located in the Steel/Aluminum category).
☐	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 resultant 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 psf for distributed systems.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS(SIGNATURE), 2019 CBC

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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 scanned electronic or digital signatures.

DSA STAMP

DSA 103-19: LIST OF REQUIRED VERIFIED REPORTS, CBC 2019

Application Number: 04-119471
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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 EXAMPLE FORM DSA 103 SHOWN ON THIS SHEET IS FOR ILLUSTRATION PURPOSES ONLY. A SEPARATE FORM DSA 103 IS TO BE COMPLETED FOR EACH PROJECT SPECIFIC APPLICATION THAT THIS PC IS BEING INCORPORATED INTO. FORM DSA-103 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 FORM DSA-103 ON STOCKPILE PROJECTS. THE EXAMPLE FORM DSA-103 SHALL BE CROSSED OUT ON THIS DRAWING

STATE AGENCY APPROVAL

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MANUFACTURER #MF1279666 | DEALER # DL 1279666
GC LIC # 992118 | SBE CERTIFIED

DISTRICT/CUSTOMER NAME:

SCHOOL/SITE NAME:

SHEET TITLE:

DSA 103
TEST & SPECIAL INSPECTIONS SAMPLE

PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC
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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-119471 PC
REVIEWED FOR
SS ☑ FLS ☐ ACS ☑ CG ☐
DATE: 10/29/2020

PROFESSIONAL OF RECORD ON PC

JAMES T. SIMPSON
No.3602
REGISTERED PROFESSIONAL ENGINEER
STRUCTURAL
STATE OF CALIFORNIA

Date Signed: October 22, 2020

FIRM: EXL STRUCTURAL ENGINEERING, INC
ADDRESS: 4091 RIVERSIDE DRIVE, SUITE #114
CITY: CHINO, CA 91710
PHONE: (909) 613-0234

PROJECT SPECIFIC PROFESSIONAL OF RECORD

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REVISIONS

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PROJECT NO.:	00-0000
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DATE:	00-00-00

SHEET NUMBER

R-2

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STRUCTURAL NOTES

MATERIAL SPECIFICATIONS:

STEEL - ALL TUBE STEEL ASTM A-513M-18 GRADE B (Fy=40 KSI)
ALL STRUCTURAL STEEL SHEET TO BE A1011SS GRADE 33
ALL STEEL TO BE COATED PER TT-P-645 ASTM
ALL ANGLES AND MISC STEEL ASTM A36

BOLTS - ASTM A307 COMMON BOLTS WITH WASHER

WELDS - ALL WELDING SHALL CONFORM TO AMERICAN WELDING SOCIETY D-1.3-2008 FOR SHEET STEEL.
ELECTRODES SHALL BE E70XX

PLYWOOD DECKING OPTION- APA RATED STRUCT 1 EXTERIOR PLYWOOD

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

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CONSTRUCTION SPECIFICATIONS AND NOTES

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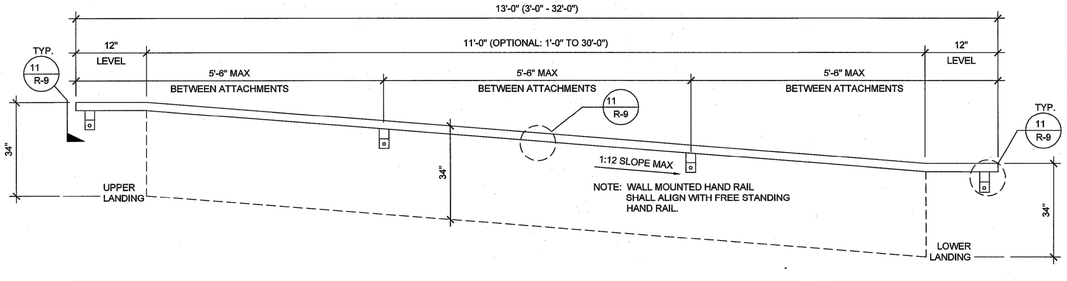
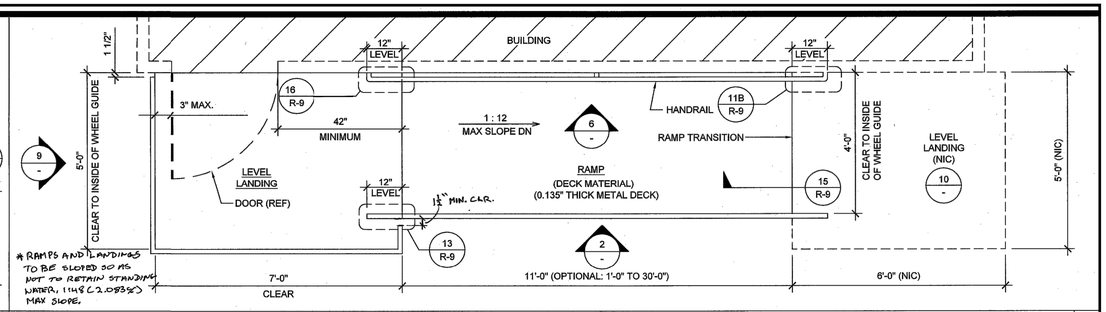
SHEET NUMBER

R-3



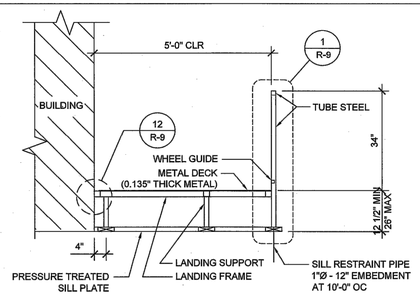
HANDRAIL ATTACHMENT TO BUILDING

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



RAMP AND LANDING AT BUILDING

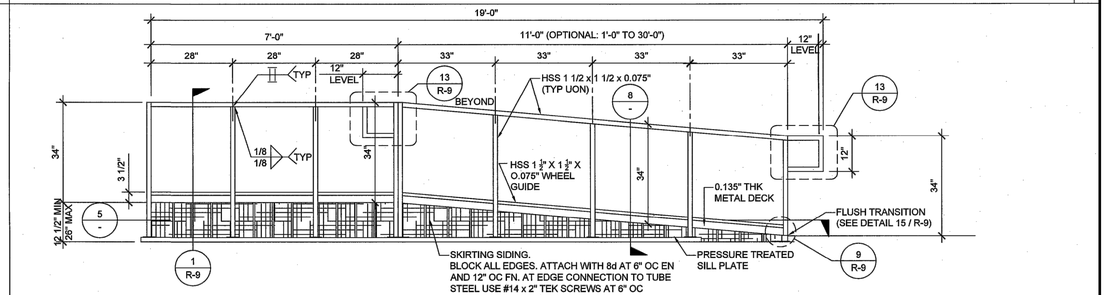
SCALE : 1/2" = 1'-0" | 1



11

SECTION AT LANDING

SCALE : 1/2" = 1'-0" | 7

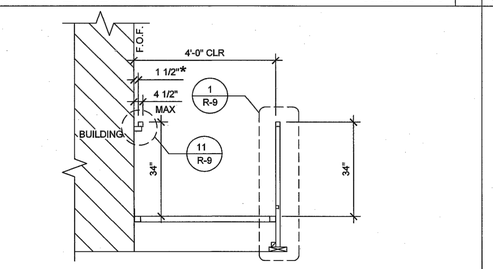


RAMP AND LANDING ELEVATION

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

NOTE:
PER CBC 1012.5.1 MINIMUM EGRESS WIDTH SHALL COMPLY WITH CBC 1020.2 (CORRIDORS).

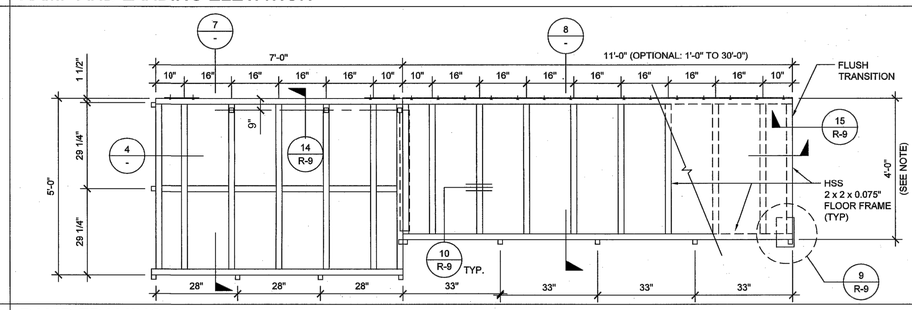
1018.2
THE MIN WIDTH OF CORRIDORS SPECIFIED IN TABLE 1020.2 SHALL BE DETERMINED BY SECTION 1005.1.2 PER OCCUPANT. HOWEVER FOR GROUP E IF THERE ARE 100 OR MORE OCCUPANTS REQ'D TO EXIT THE RAMP IT SHALL BE 72" MIN IN WIDTH.



12

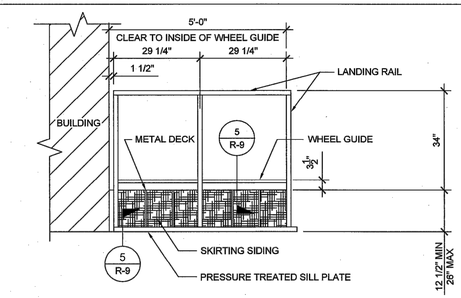
SECTION AT RAMP

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



RAMP FRAMING PLAN

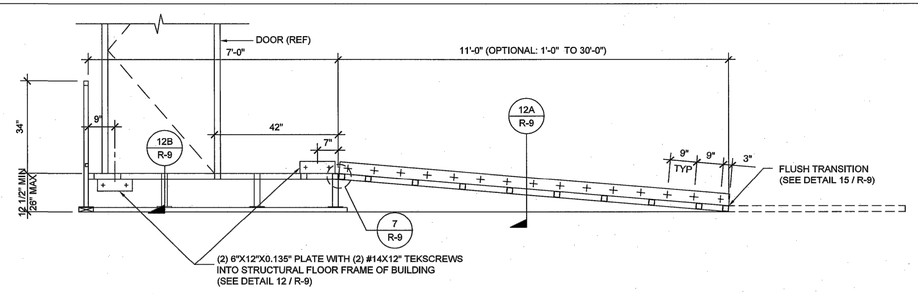
SCALE : 1/2" = 1'-0" | 3



13

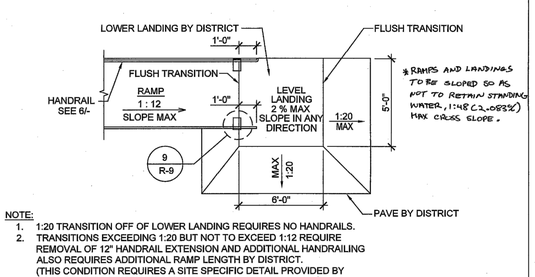
LANDING ELEVATION

SCALE : 1/2" = 1'-0" | 9



SECTION AT RAMP AND LANDING

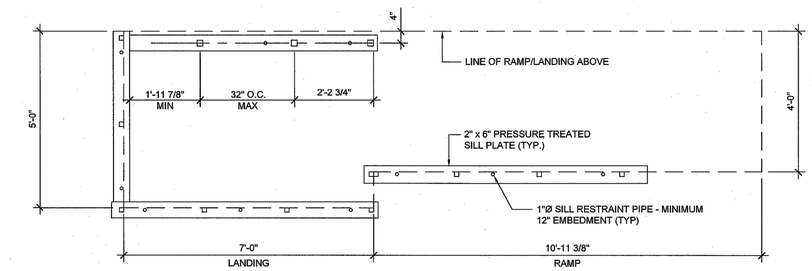
SCALE : 1/2" = 1'-0" | 4



14

RAMP TRANSITION

SCALE: NTS | 10



SILL PLAN FOR RAMP AND LANDING

SCALE : 1/2" = 1'-0" | 5

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MANUFACTURER #MF1276666 DEALER # DL1276666
GC LIC # 992118 SBE CERTIFIED

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STANDARD RAMP
PLAN

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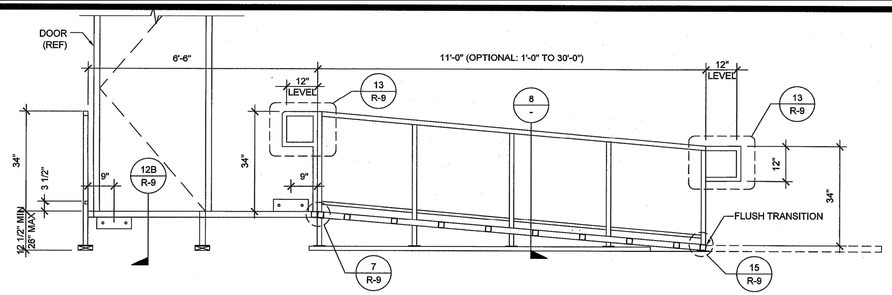
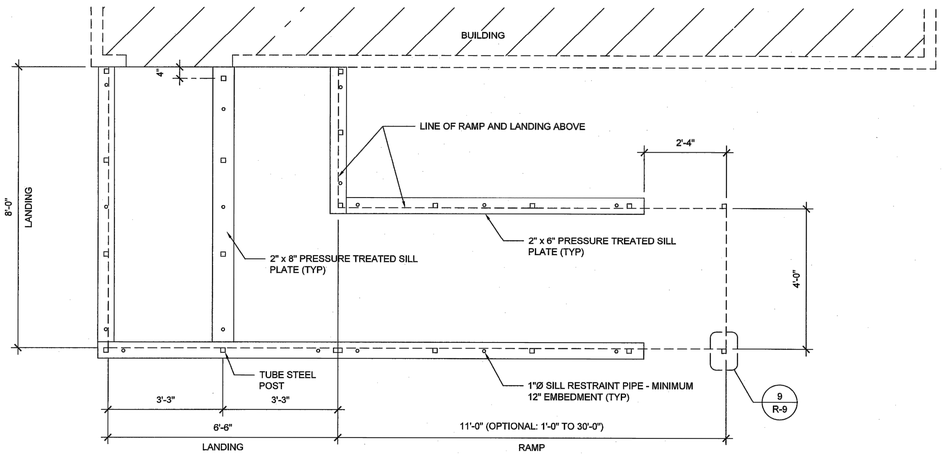
R-4

10/22/2020 7:29:58 AM



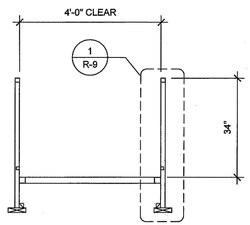
SECTION AT RAMP AND LANDING

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



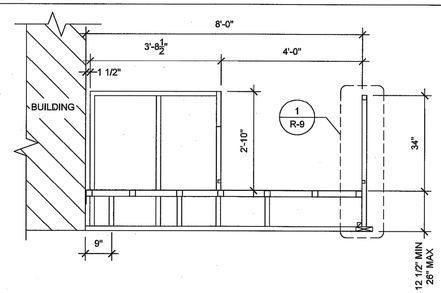
SILL PLAN FOR RAMP AND LANDING

SCALE : 1/2" = 1'-0" | 5



SECTION AT RAMP

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



SECTION AT LANDING

SCALE : 1/2" = 1'-0" | 6

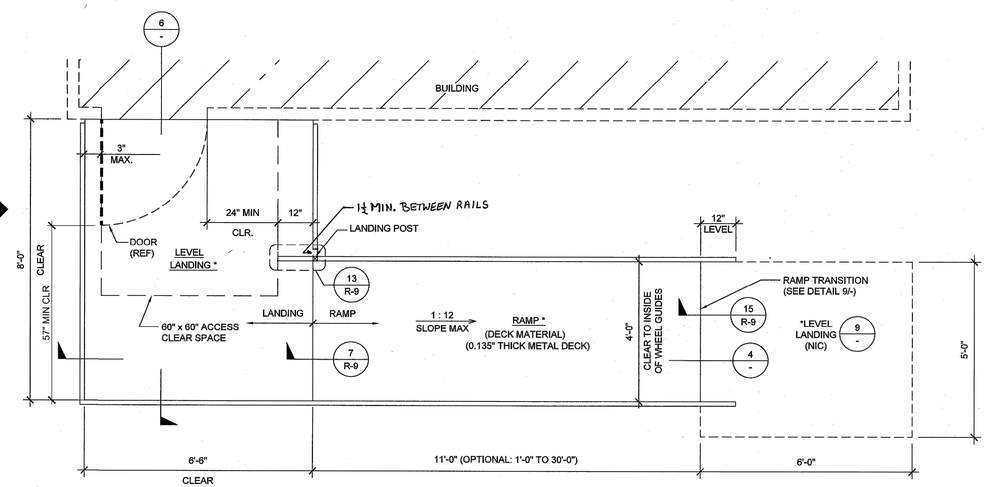
NOTE:
1. 1:20 TRANSITION OFF OF LOWER LANDING REQUIRES NO HANDRAILS.
2. TRANSITIONS EXCEEDING 1:20 BUT NOT TO EXCEED 1:12 REQUIRE REMOVAL OF 12" HANDRAIL EXTENSION AND ADDITIONAL HANDRAILING ALSO REQUIRES ADDITIONAL RAMP LENGTH BY DISTRICT. (THIS CONDITION REQUIRES A SITE SPECIFIC DETAIL PROVIDED BY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

RAMP TRANSITION

SCALE: NTS | 9

LANDING ELEVATION

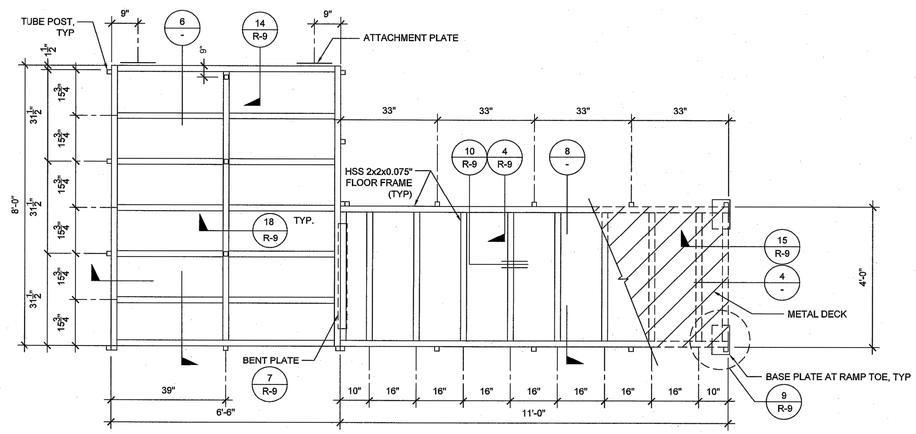
SCALE : 1/2" = 1'-0" | 7



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

RAMP AND LANDING AT BUILDING

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



RAMP FRAMING PLAN

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

RAMP AND LANDING ELEVATION

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

STATE AGENCY APPROVAL

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OFFSET RAMP PLAN

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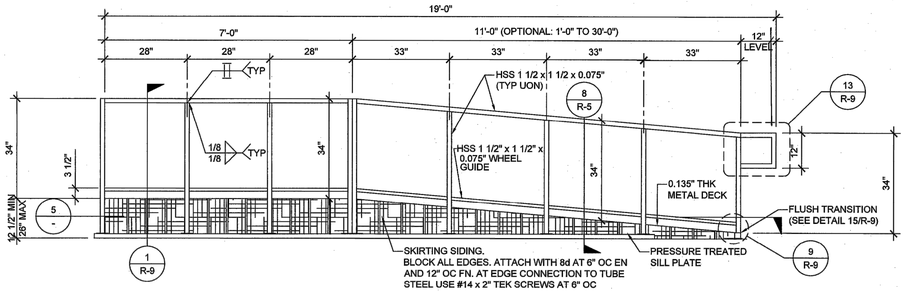
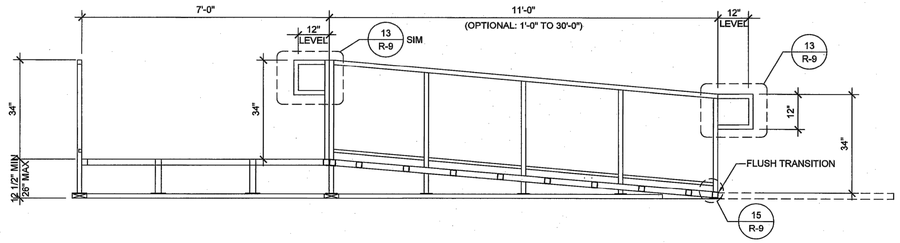


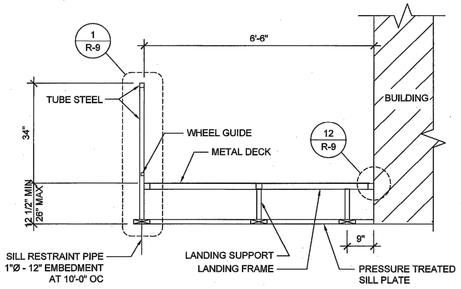
RAMP AND LANDING ELEVATION

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



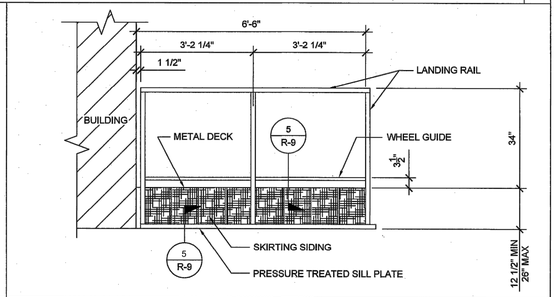
SECTION AT RAMP AND LANDING

SCALE : 1/2" = 1'-0" | 5



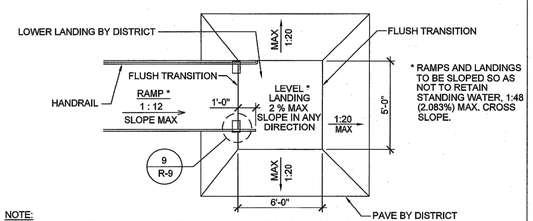
SECTION AT LANDING

SCALE : 1/2" = 1'-0" | 9



LANDING ELEVATION

SCALE : 1/2" = 1'-0" | 6



NOTE:
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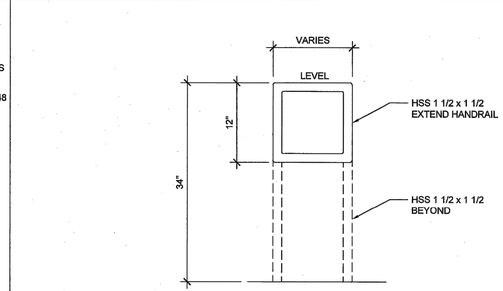
2. TRANSITIONS EXCEEDING 1:20 BUT NOT TO EXCEED 1:12 REQUIRE REMOVAL OF 12" HANDRAIL EXTENSION AND ADDITIONAL HANDRAILING ALSO RERQUIRES ADDITIONAL RAMP LENGTH BY DISTRICT. (THIS CONDITION REQUIRES A SITE SPECIFIC DETAIL PROVIDED BY ARCHITECT TO DEMONSTRATE ACCESSIBLE RAMP.)

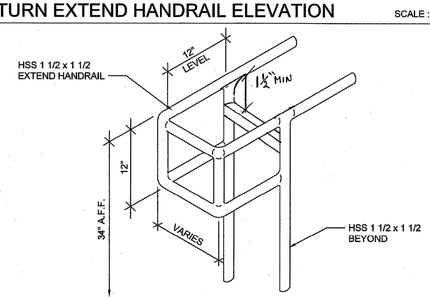
RAMP TRANSITION

SCALE: NTS | 10



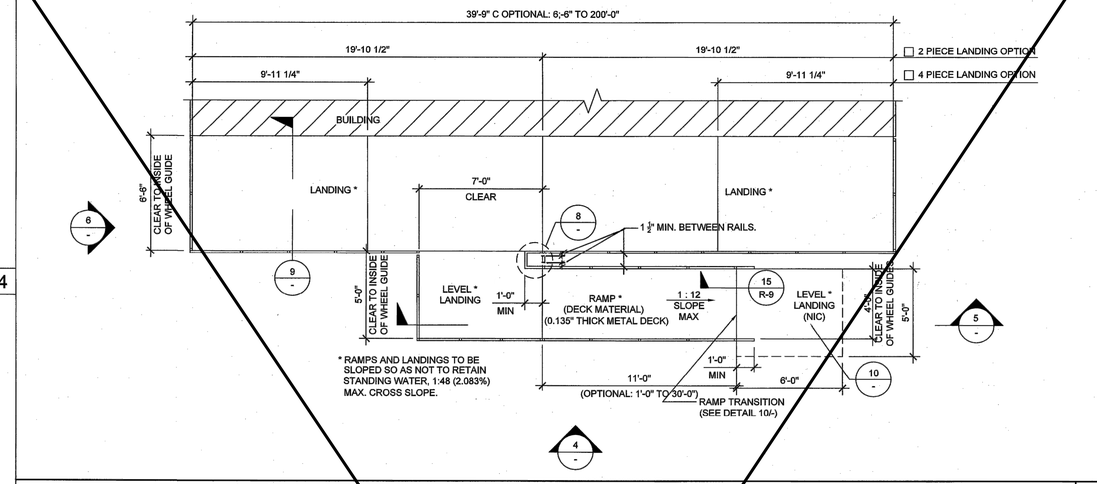
RETURN EXTEND HANDRAIL ELEVATION

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



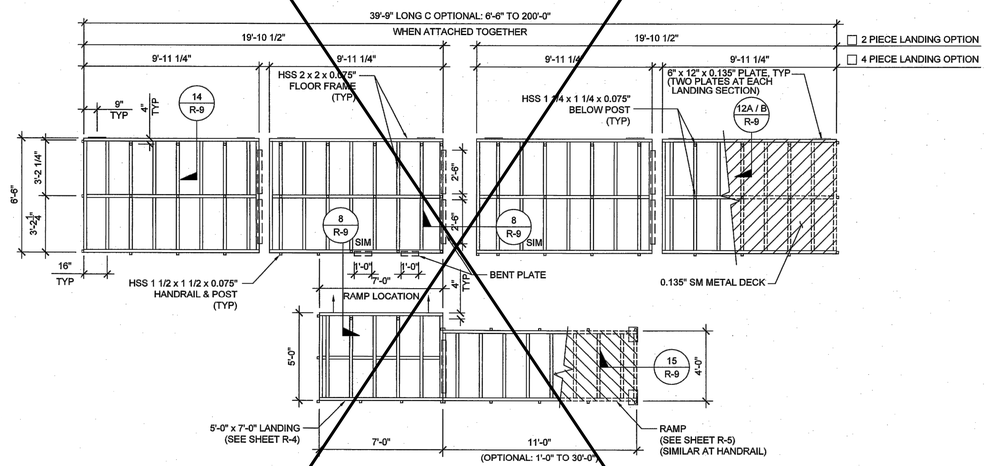
RETURN EXTEND HANDRAIL ISOMETRIC

SCALE : NTS | 8



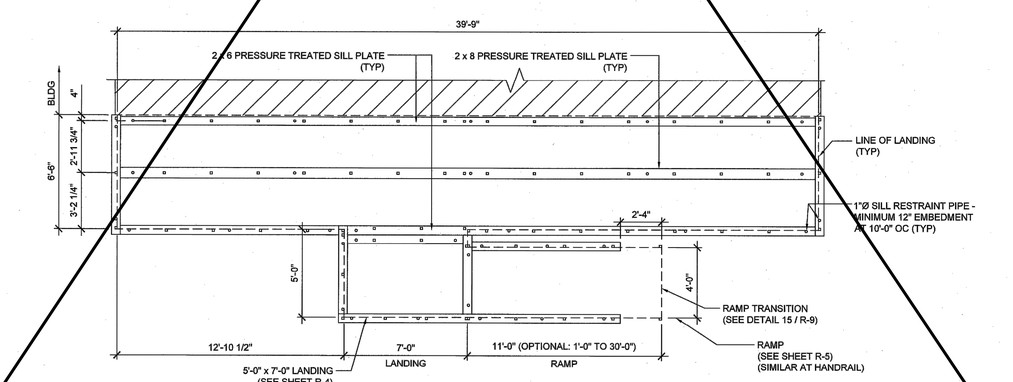
LANDING PLAN

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



LANDING FRAME

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



SILL PLAN FOR RAMP AND LANDING

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

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COMMON LANDING PLAN

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PHONE:

REVISIONS

1	-
2	-
3	-
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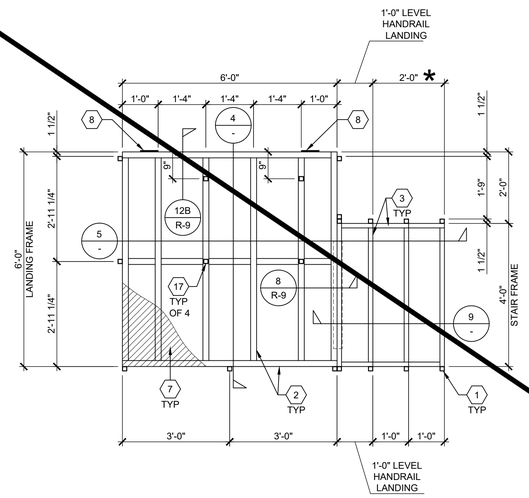
5	-

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

SHEET NUMBER

R-6

10/22/2020 7:30:13 AM

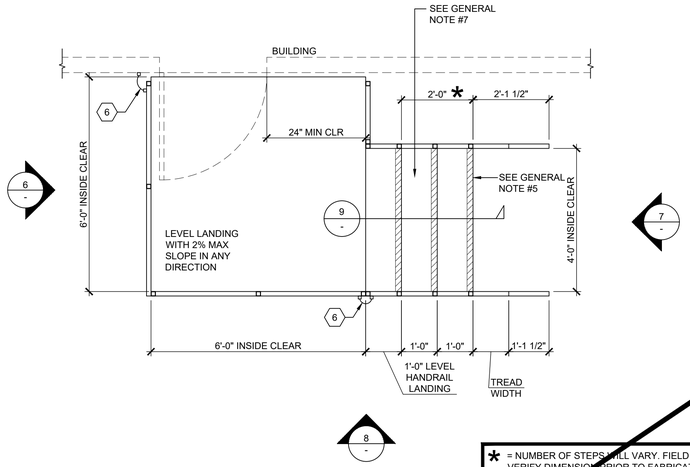


* = NUMBER OF STEPS WILL VARY. FIELD VERIFY DIMENSION PRIOR TO FABRICATION

STAIR AND LANDING FRAMING PLAN

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

2



* = NUMBER OF STEPS WILL VARY. FIELD VERIFY DIMENSION PRIOR TO FABRICATION

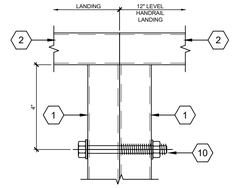
STAIR AND LANDING PLAN

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

1

KEY NOTES

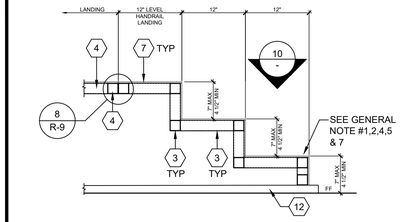
1. VERTICAL TUBE: 1 1/2" X 1 1/2" X 14 GA MIN (t = 0.075") SQUARE TUBE
2. HANDRAIL TUBE: 1 1/2" X 1 1/2" X 16 GA MIN (t = 0.065") SQUARE TUBE
3. STAIR TREAD AND RISER TUBE: 2" X 2" X 14 GA MIN (t = 0.075") SQUARE TUBE
4. LANDING PERIMETER TUBE: 2" X 2" X 14 GA MIN (t = 0.075") SQUARE TUBE
5. MIN 3" X 12" VENT
6. BONDING LUGS WITH MIN #8 COPPER WIRE
7. 12 GA METAL DECK (0.105"): NON-SLIP SURFACE MAINTAINABLE FOR 1 YEAR. SEE GENERAL NOTES #5 ON SHEET R-3
8. STEEL TAB AT LANDING
9. WHEELCHAIR GUIDE RAILS: 1" X 1" X 14 GA MIN (t = 0.075") SQUARE TUBE
10. 3/8"Ø ZINC COATED MACHINE BOLT WITH NUT
11. NOT USED
12. 2 X 6 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 PER DISCONTINUE FOUNDATION STRIP PER DSA IR 16-1 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
14. NOT USED
15. NOT USED
16. PLASTIC END CAP
17. LANDING SUPPORTS. SEE SHEET R-9
18. NOT USED
19. NOT USED
20. NOT USED
21. NOT USED
22. WOOD SKIRTING
23. NOT USED
24. 3" X 1" X 3'-0" X 10 GA BENT PLATE (0.135")



STAIR TO LANDING CONN (TOP)

SCALE: 6" = 1'-0"

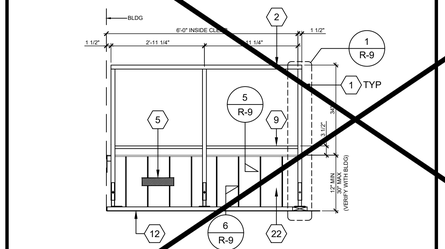
11



SECTION AT STAIR RISER

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

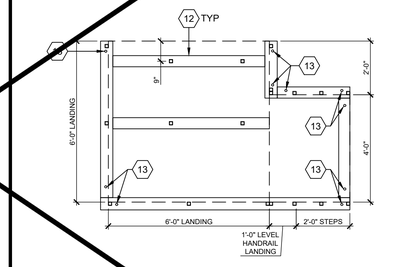
9



LANDING ELEVATION (REAR)

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

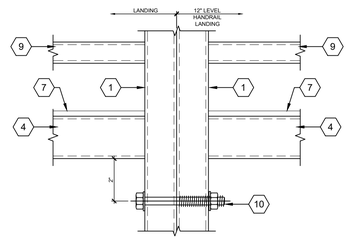
6



SILL PLATE PLAN

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

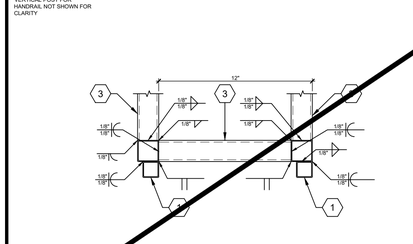
3



STAIR TO LANDING CONN (BTM)

SCALE: 6" = 1'-0"

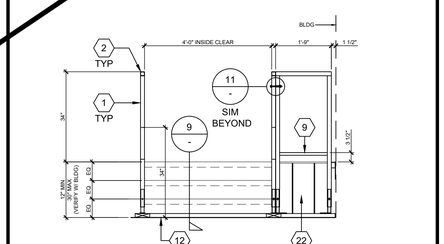
12



STAIR TREAD PLAN VIEW

SCALE: 3" = 1'-0"

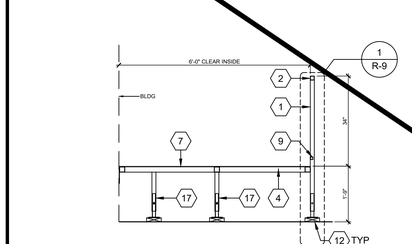
10



STEP ELEVATION

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

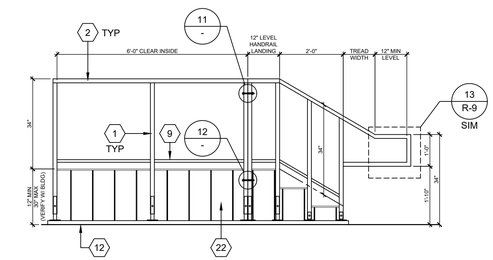
7



SECTION AT LANDING

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

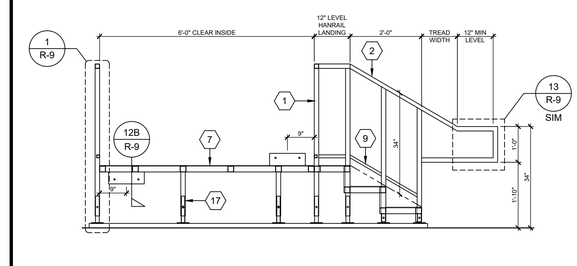
4



STEPS & LANDING ELEVATION

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

8



SECTION AT STEPS & LANDING

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

5

GENERAL NOTES

1. THE RISE OF STAIR STEPS SHALL NOT BE LESS THAN 4-1/2" NOR MORE THAN 7". STAIR TREADS SHALL BE OF UNIFORM SIZE AND SHAPE. THE GREATER HEIGHT WITHIN ANY FLIGHT OF STAIR SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/8"
2. EXCEPT AS PERMITTED, THE RUN SHALL NOT BE LESS THAN 11" AS MEASURED HORIZONTALLY BETWEEN VERTICAL PLANES OF THE FURTHERMOST PROJECTION OF THE ADJACENT TREADS OR NOSINGS
3. TOP OF HANDRAILS AND HANDRAIL EXTENSIONS SHALL BE ONE CONSTANT HEIGHT BETWEEN 34"-38" ABOVE STAIR NOSING (NOT A RANGE)
4. ALL STAIR NOSING TO BE ROUNDED 1/2" RADIUS
5. PROVIDE 2" MIN WIDE (FULL WIDTH OF TREAD) CONTRASTING COLOR (70%) WARNING STRIPE 1" MAX FROM EDGE OF NOSING OF EACH STAIR AND TOP LANDING
6. SEE SHEET R-3 FOR ADDITIONAL GENERAL NOTES
7. STAIR TREADS MUST NOT COLLECT WATER
8. PROVISION OF THE STAIRS SHALL IN NO WAY ALLEVIATE OR PROVIDE AN EXCEPTION TO PROVIDING RAMPS AT ALL ENTRIES AND GROUND FLOOR EXITS

STATE AGENCY APPROVAL

SKC COMPANY
13617 12 STREET, SUITE #B, CHINO, CA 91710
OFFICE: (909) 740-3120, FAX: (909) 726-9470
WEBSITE: WWW.SKCCOMPANY.COM
MANUFACTURER #MF1279666 DEALER # DL1279666
GC LIC # 992118 SBE CERTIFIED

DISTRICT/CUSTOMER NAME:

SCHOOL/SITE NAME:

SHEET TITLE:

STAIR AND LANDING PLAN AND DETAILS

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-119471 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐ CG ☐
DATE: 10/29/2020

PROFESSIONAL OF RECORD ON PC

JAMES T. SIMPSON No.3602 REGISTERED PROFESSIONAL ENGINEER STRUCTURAL STATE OF CALIFORNIA

Date Signed: October 22, 2020

FIRM: EXL STRUCTURAL ENGINEERING, INC
ADDRESS: 4091 RIVERSIDE DRIVE, SUITE #114
CITY: CHINO, CA 91710
PHONE: (909) 613-0234

PROJECT SPECIFIC PROFESSIONAL OF RECORD

FIRM:
ADDRESS:
CITY:
PHONE:

REVISIONS

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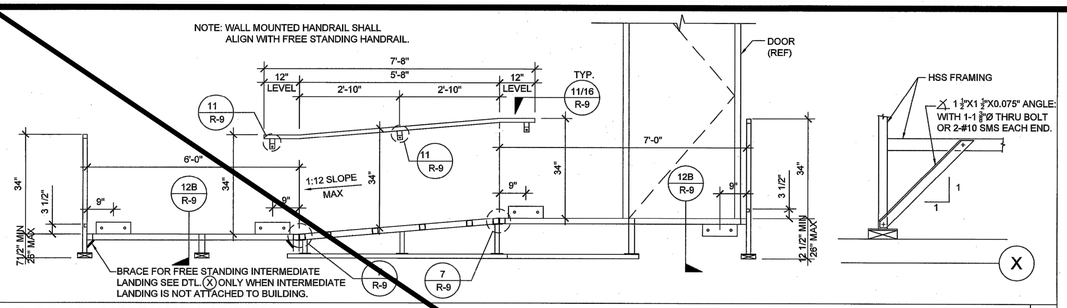
2 -
3 -
4 -
5 -

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

SHEET NUMBER

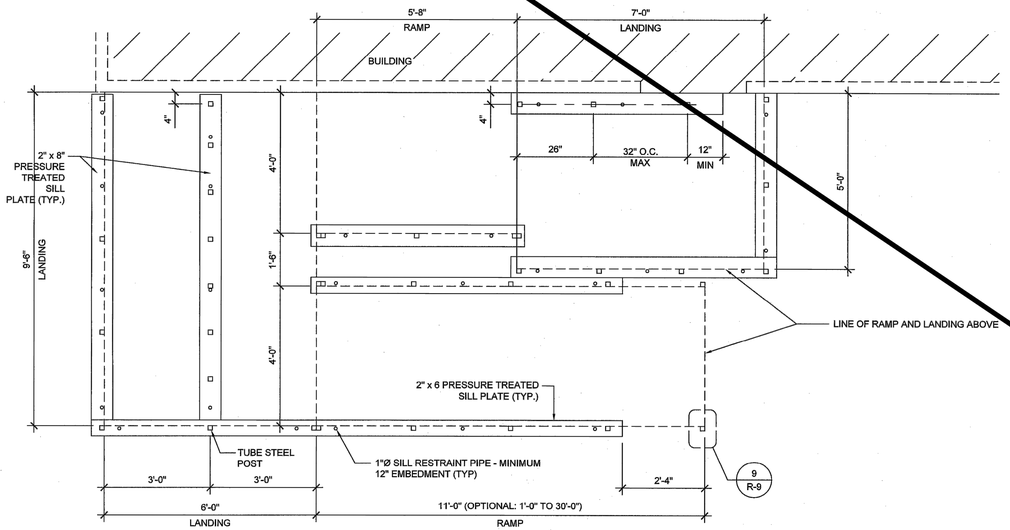
R-7

10/22/2020 7:30:24 AM



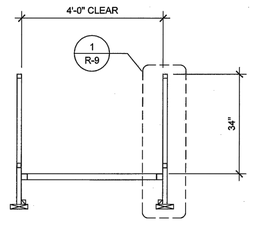
SECTION AT RAMP AND LANDING

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



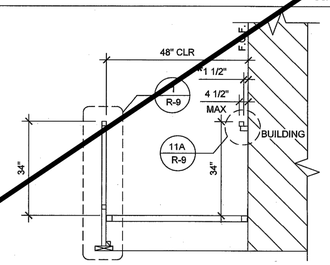
SILL PLAN FOR RAMP AND LANDING

SCALE : 1/2" = 1'-0" | 5



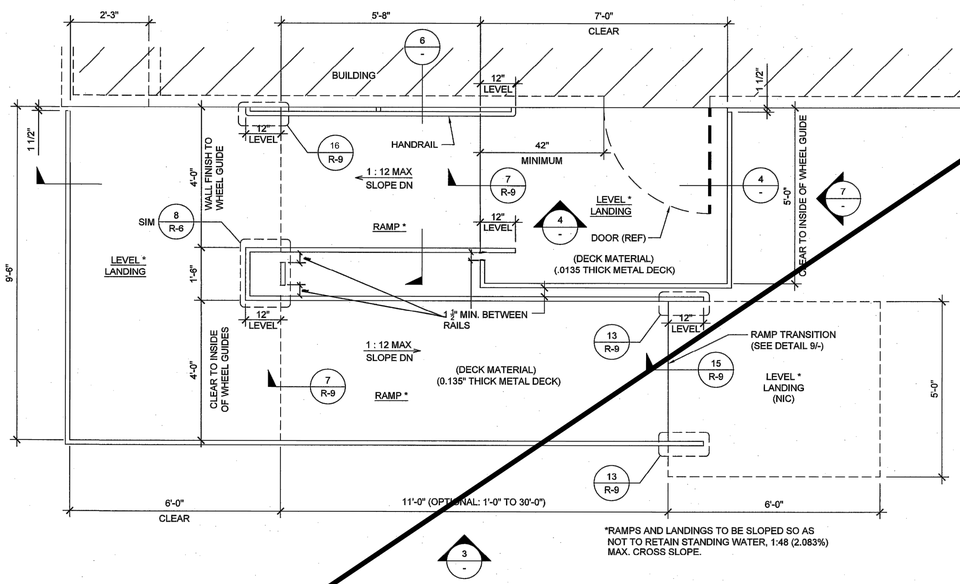
SECTION AT RAMP

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



SECTION AT RAMP

SCALE : 1/2" = 1'-0" | 6

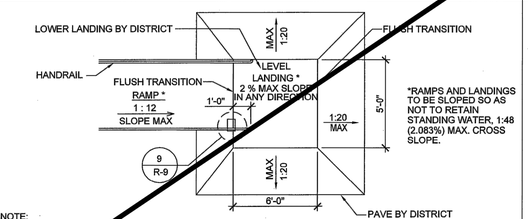


RAMP AND LANDING AT BUILDING

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

RAMP TRANSITION

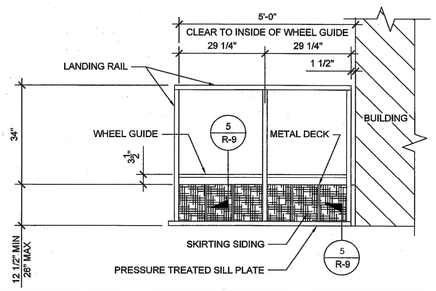
SCALE: NTS | 9



NOTE:
1. 1:20 TRANSITION 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.)

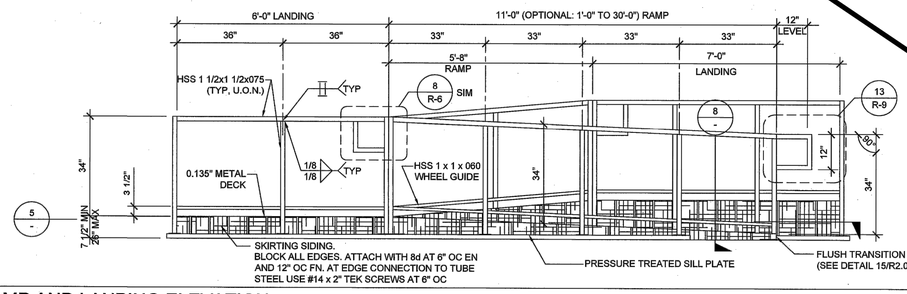
LANDING ELEVATION

SCALE : 1/2" = 1'-0" | 7



RAMP AND LANDING ELEVATION

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



STATE AGENCY APPROVAL

SKC COMPANY
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MANUFACTURER #MF1279666 DEALER # DL1279666
GC LIC # 992118 SBE CERTIFIED

DISTRICT/CUSTOMER NAME:

SCHOOL/SITE NAME:

SHEET TITLE:

SWITCHBACK RAMP PLAN

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-119471 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐ CG ☐
DATE: 10/29/2020

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REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No.3602 STRUCTURAL STATE OF CALIFORNIA

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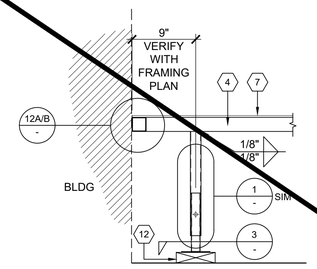
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

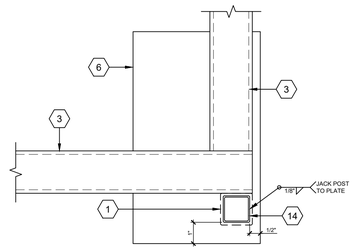
R-8



INTERIOR ADJUSTABLE SUPPORT LEGS

SCALE: 1" = 1'-0"

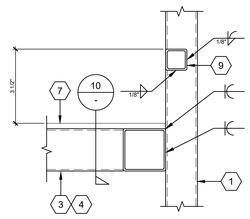
14



BASE PLATE AT RAMP TOE

SCALE: 6" = 1'-0"

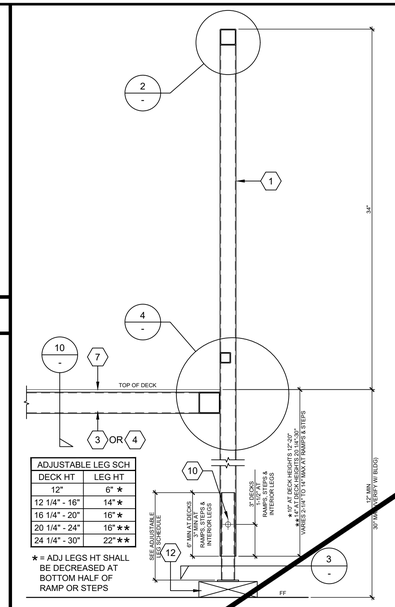
9



VERTICAL TUBE TO LANDING/RAMP

SCALE: 6" = 1'-0"

4



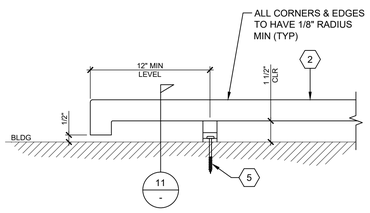
SECTION AT DECK & HANDRAIL

SCALE: 3" = 1'-0"

1

KEY NOTES

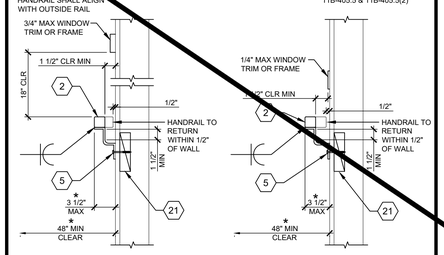
1. VERTICAL TUBE: 1 1/2" X 1 1/2" X 14 GA MIN (t = 0.075") SQUARE TUBE
2. HANDRAIL TUBE: 1 1/2" X 1 1/2" X 16 GA MIN (t = 0.065") SQUARE TUBE
3. RAMP TUBE MEMBER: 2" X 2" X 14 GA MIN (t= 0.075") SQUARE TUBE
4. LANDING TUBE MEMBER: 2" X 2" X 14 GA MIN (t = 0.075") SQUARE TUBE
5. HANDRAIL MOUNTING BRACKET: 1/4" X 3" LAG SCREW AT WOOD STUD BUILDING OR #14 X 2" TEK SCREW AT METAL STUD BUILDING
6. 6" X 10" X 0.135" STEEL PLATE
7. 12 GA METAL DECK (0.105"): NON-SLIP SURFACE MAINTAINABLE FOR 1 YEAR. SEE GENERAL NOTES #3 AND DETAIL #4 ON SHEET R-3
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 COATED 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 6 HF #2 MIN. PRESSURE TREATED SILL PLATE
13. 1"Ø x 14 GA 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 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
14. ADJUSTABLE LEGS: 1-1/4" X 1-1/4" X 0.075" 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 SHOWN, CAN BE METAL
22. PLYWOOD SKIRTING OR SIDING FINISH. 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"

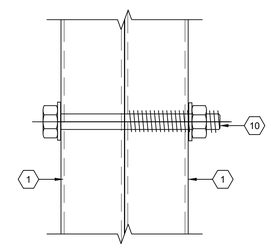
16



HANDRAIL CONNECTION

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

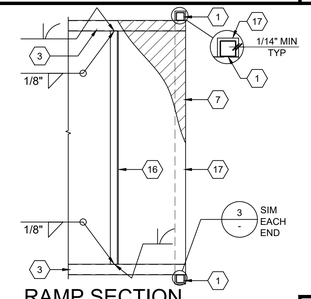
11



VERT TUBE TO VERT TUBE CONN

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

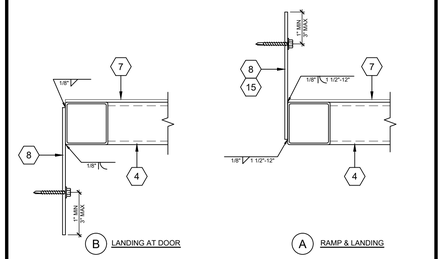
6



RAMP SECTION

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

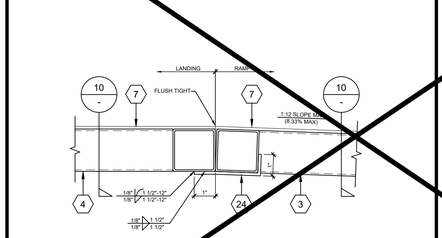
17



SECTION AT PLATE

SCALE: 6" = 1'-0"

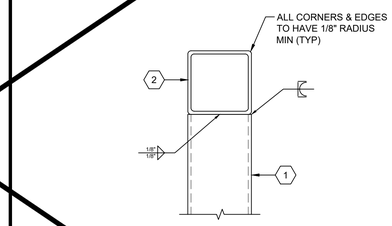
12



RAMP TO LANDING

SCALE: 6" = 1'-0"

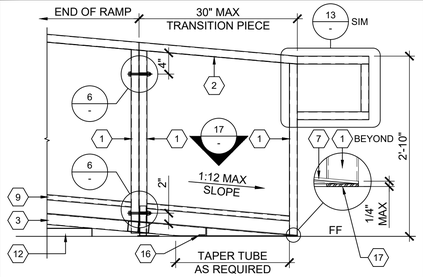
7



HANDRAIL

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

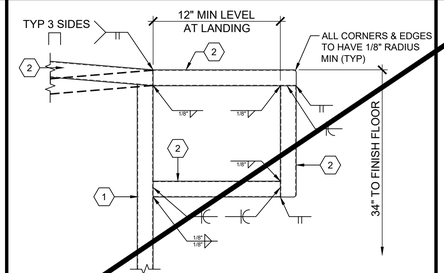
2



ZERO TRANSITION RAMP SECTION

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

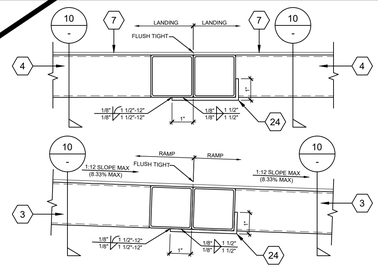
18



HANDRAIL EXTENSION

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

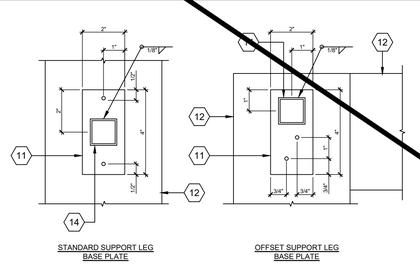
13



RAMP OR LANDING EXTENSION

SCALE: 6" = 1'-0"

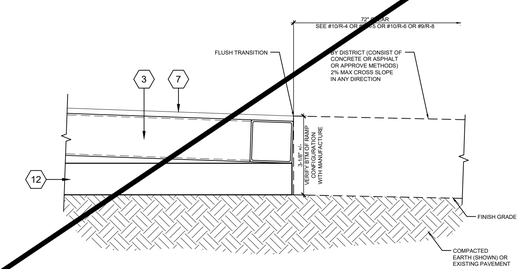
8



BASE PLATE PLAN VIEW

SCALE: 6" = 1'-0"

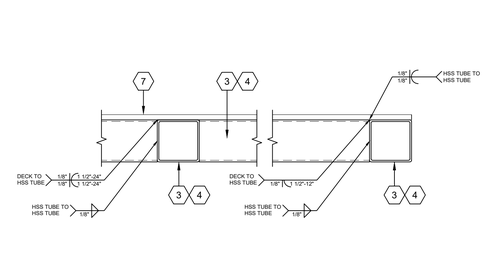
3



FINISH GRADE TRANSITION

SCALE: 6" = 1'-0"

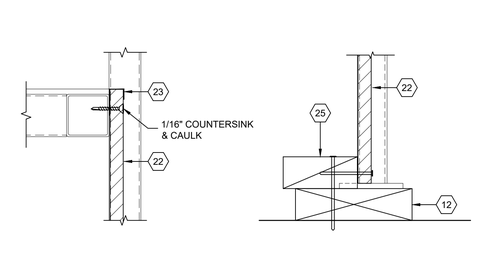
15



DECK TO FRAME

SCALE: 6" = 1'-0"

10



SKIRTING INSTALLATION

SCALE: 6" = 1'-0"

5

STATE AGENCY APPROVAL

SKC COMPANY
13617 12 STREET, SUITE #B, CHINO, CA 91710
OFFICE: (909) 740-3120, FAX: (909) 726-9470
WEBSITE: WWW.SKCCOMPANY.COM
MANUFACTURER #MF1279666 DEALER # DL1279666
GC LIC # 992118 SBE CERTIFIED

DISTRICT/CUSTOMER NAME:

SCHOOL/SITE NAME:

SHEET TITLE:

STAIR AND LANDING PLAN AND DETAILS

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-119471 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐ CG ☐
DATE: 10/29/2020

PROFESSIONAL OF RECORD ON PC

JAMES T. SIMPSON — No.3602 — STRUCTURAL — STATE OF CALIFORNIA

Date Signed: October 22, 2020

FIRM: EXL STRUCTURAL ENGINEERING, INC
ADDRESS: 4091 RIVERSIDE DRIVE, SUITE #114
CITY: CHINO, CA 91710
PHONE: (909) 613-0234

PROJECT SPECIFIC PROFESSIONAL OF RECORD

FIRM:
ADDRESS:
CITY:
PHONE:

REVISIONS

1 -
2 -
3 -
4 -
5 -

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

SHEET NUMBER

R-9