CYPRESS COLLEGE

HOTEL, RESTAURANT, CULINARY ARTS (HRC)

9200 VALLEY VIEW ST, CYPRESS, CA 90630

RELOCATABLE CLASSROOM & RESTROOM BUILDINGS

TEMPORARY AND SHORT TERM USE - 18-36 MONTHS ONLY

SHEET INDEX

TOTAL SHEET COUNT: 80

SHEET COUNT SUBTOTAL: 53

SHEET INDEX - MANUFACTURER PC-APPROVED DRAWINGS

SHEET COUNT SUBTOTAL: 27

STATEMENT OF GENERAL CONFORMANCE

RELOCATABLE BUILDING	MANUFACTURER	DSA APPLICATION NUMBER (STOCKPILE)	SERIAL NUMBERS	OCCUPANCY TYPE	CONST. TYPE	FIRE SPRINKLER	NO. STORIES	AREA (SF)
36x40 CLASSROOM	MSI	A# 01-105425	2AH10104 2AH10105 2AH10106	A-2		NO	1	1440
12x40 RESTROOM	Impact Construction Services	A# 03-117957	17-488-203-012	B		NO	1	480
RAMPS AND LANDING	TMP Services	PC 04-119501	N/A	A-2		NO	1	N/A

THESE DRAWINGS AND/ OR SPECIFICATIONS AND/ OR CALCULATIONS FOR THE ITEMS LISTED BELOW HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/ OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. THESE DOCUMENTS HAVE BEEN EXAMINED BY HPI FOR DESIGN INTENT AND HAVE BEEN FOUND TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY HPI.

THE ITEMS LISTED BELOW ARE ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT FOR WHICH HPI IS THE ENTITY DESIGNED TO BE IN GENERAL RESPONSIBLE CHARGE (OR FOR WHICH HAS BEEN DELEGATED RESPONSIBILITY FOR THIS PORTION OF THE WORK).

■ THE MODULAR BUILDING DRAWINGS 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:

■ DSA A# 01-105425
ALL DRAWINGS LISTED IN A0.0-PS

DSA A# 03-117957
ALL DRAWINGS LISTED IN A0.0

PC 04-119501
ALL DRAWINGS LISTED IN 1

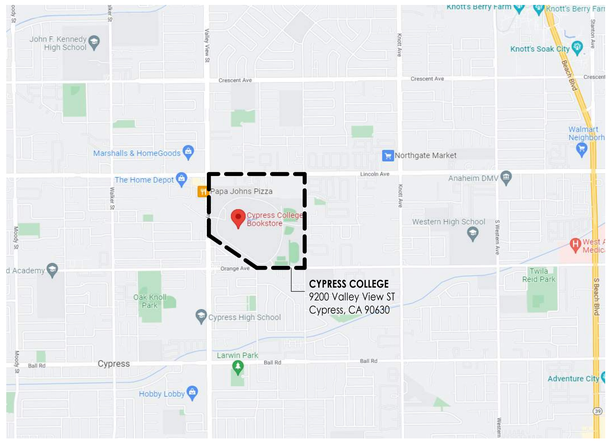
■ IS/ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN, AND HAS/HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS.

DATE 08/31/2022

ARCHITECT DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE

NAME: AMMAR NAJI SARSAM
LICENSE NUMBER: C-30902
EXPIRATION DATE: 12-31-2023

VICINITY MAP



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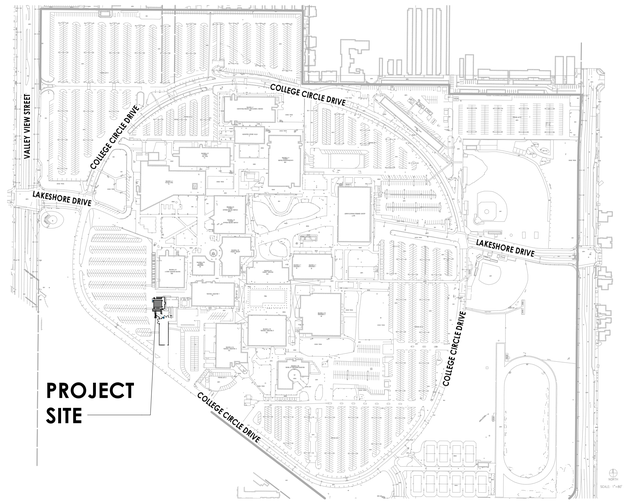
CAMPUS MAP



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PROJECT DIRECTORY

OWNER
CYPRESS COLLEGE
9200 Valley View St,
Cypress, CA 90630
Tel. 714.484.7732
CONTACTS: **ALLISON COBURN, PROJECT MANAGER**
ALEJANDRA RAMIREZ, ASSISTANT PROJECT MANAGER

ARCHITECT
HPI ARCHITECTURE
115 22ND ST.,
Newport Beach, CA 92663
Tel. 949.675.6442
CONTACTS: **AMMAR NAJI SARSAM, PRINCIPAL**
MEGAN GAUNCE, PRINCIPAL
KRISTINE CALIXTO, PROJECT MANAGER

FOODSERVICE CONSULTANT
WEBB FOODSERVICE DESIGN
1530 S. Lewis St
Anaheim, CA 92805
Tel. 714.508.1880
CONTACTS: **MIKE BROWNE, SENIOR PROJECT MANAGER**
EDDIE DIAZ, ASSOCIATE PROJECT MANAGER

CIVIL ENGINEER
RKF ENGINEERS
4675 MacArthur Court,
Suite 400
Newport Beach, CA 92660
Tel. 949.526.8469
CONTACTS: **STUART SZUCH, SENIOR PROJECT ENGINEER**
LENNA VON ALT, PROJECT ENGINEER

STRUCTURAL ENGINEER
MHP STRUCTURAL ENGINEERS
3900 Cover Street
Long Beach, CA 90808
Tel. 562.985.3200
CONTACTS: **JAMES KRAMER, PROJECT MANAGER**

PLUMBING, ELECTRICAL, TELECOM & FIRE ALARM
PZS, INC.
5000 East Spring Street, 8th Floor
Long Beach, CA 90815
Tel. 562.497.2999
CONTACTS: **ALEX SASSOON, STUDIO LEADER**
NICOLE BALISI, ELECTRICAL DESIGN ENGINEER
CHAD PETERSON, PLUMBING DESIGNER

SCOPE OF WORK

THE SCOPE OF WORK FOR THE TEMPORARY CLASSROOM AND RESTROOMS PORTABLES FACILITY INCLUDES THE FOLLOWING:

1. RELOCATE PRE-MANUFACTURED PORTABLE BUILDING UNITS.
2. THE BUILDINGS WILL BE PRE-PLUMBED, MECHANICAL UNITS ATTACHED WITH DUCT WORK IN PLACE ALONG WITH ELECTRICAL SYSTEMS INSTALLED READY FOR UTILITY HOOK-UP AT THE SITE.
3. THIS PROJECT WILL SERVE AS A TEMPORARY LOCATION FOR THE HRC WHILE REPAIR WORK IS DONE AT THE CYPRESS COLLEGE ANAHEIM CAMPUS BUILDING WHERE THE PERMANENT HRC FACILITY IS LOCATED. THE APPROXIMATE LENGTH OF TIME FOR THIS TEMPORARY LOCATION IS 18-36 MONTHS.

DEFERRED APPROVAL ITEMS

NONE

INSPECTIONS

A DSA CERTIFIED INSPECTOR CLASS 3 CERTIFICATION SHALL BE REQUIRED FOR THIS PROJECT.

DSA NOTE:

DETERIORATION OR EXISTING NON-COMPLIANT CONSTRUCTION

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

DSA STAMP

architecture
www.hpiarchitecture.com
115 22nd street
Newport Beach, CA 92663
o: 949.675.6442

SEAL

LICENSED ARCHITECT
AMMAR NAJI SARSAM
C-30902
12/31/2023
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANTS

PROJECT TITLE

HRC TEMP RELOCATABLE CLASSROOM & RESTROOM
9200 VALLEY VIEW ST,
CYPRESS, CA 90630

Cypress College

CYPRESS COMMUNITY COLLEGE
9200 VALLEY VIEW ST.
CYPRESS, CA 90630

ISSUED

#	DATE	DESCRIPTION
	04/06/2023	DSA BACKCHECK SUBMITTAL

PROJECT IDENTIFICATION

THE DRAWINGS IN THE SHEET INDEX WERE ORIGINALLY CREATED IN AUTODESK REVIT V. 2018 UNLESS OTHERWISE NOTED.

THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42".

SHEET TITLE

TITLE SHEET

SHEET NUMBER

G0.01D

DSA SUBMITTAL

4/7/2023 9:01:39 AM C:\Users\kcalixto\Documents\CYPRESS_COLLEGE_HRC_TEMP_ARCH_CENTRAL_R20_kcalixto8ZDWU.rvt

GENERAL NOTES

1 ALL CONSTRUCTION SHALL COMPLY WITH THE 2019 EDITION OF THE CALIFORNIA BUILDING CODE (CBC), CALIFORNIA PLUMBING CODE, CALIFORNIA ELECTRICAL CODE, THE NFPA FIRE CODE, THE AMERICANS WITH DISABLITIES ACT (ADA), CALIFORNIA TITLE 24 PARTS 1-5, AND/OR APPLICABLE GOVERNING ORDINANCES UNLESS NOTED OTHERWISE AND SHALL BE THE RESPONSIBILITY OF ANYONE SUPPLYING LABOR OR MATERIALS OR BOTH TO BRING TO THE ATTENTION OF THE ARCHITECT ANY DISCREPENCY OR CONFLICT OF THE CODE AND THE DRAWING.

2 ALL CONSTRUCTION AND WORKMANSHIP SHALL COMPLY WITH APPLICABLE LOCAL, STATE AND FEDERAL CODES AND STANDARDS.

3 CONSTRUCTION MANAGER WILL BE RESPONSIBLE FOR THE ASSIGNMENT OF ALL WORK SHOWN IN THESE DRAWINGS AND SPECIFICATIONS TO PRIME CONTRACTORS (HEREINAFTER REFERRED TO INTERCHANGEABLY AS "CONTRACTOR OR CONTRACTORS") UNLESS SPECIFICALLY NOTED OTHERWISE.

4 THESE DRAWINGS, WHEN USED WITH THE PROJECT SPECIFICATIONS, SHALL CONSTITUTE THE SUM OF THE CONTRACT DOCUMENTS. CONTRACTOR SHALL REFERENCE ALL DRAWINGS AND SPECIFICATIONS CONCURRENTLY. DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY AS REFERRED TO IN THE GENERAL CONDITIONS OF THE PROJECT SPECIFICATIONS.

5 CONTRACTOR SHALL NOT BREAK SETS. THE CONTRACT DOCUMENTS ARE COMPLIMENTARY, WHAT IS REQUIRED BY ANY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL.

6 DISCREPANCIES IN THE CONTRACT DOCUMENTS; IN THE EVENT OF ERROR, OMISSION, AMBIGUITY, OR CONFLICT WITHIN THE DRAWINGS AND/OR SPECIFICATIONS, THE CONTRACTOR SHALL BRING THE MATTER TO THE ARCHITECT'S ATTENTION IN A TIMELY MANNER, FOR ARCHITECT'S AND OWNER'S DETERMINATION AND DIRECTION IN ACCORDANCE WITH PROVISIONS OF THE GENERAL CONDITIONS. DISCREPANCIES IN THE CONTRACT DOCUMENTS SHALL NOT BE ALLOWED AS A BASIS FOR CHANGE ORDERS.

7 NOT USED.

8 CONSTRUCTION DIMENSIONS INDICATED ARE BASED ON RECORD DRAWINGS AND GENERAL FIELD OBSERVATION. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD (REPORT ANY INCONSISTENCIES IMMEDIATELY TO THE ARCHITECT PRIOR TO CONSTRUCTION) AND MAKE ALLOWANCES / TOLERANCES FOR ADJOINING / LAPPING MATERIALS PRIOR TO FABRICATION. CONFIRM WITH ARCHITECT FOR SIGNIFICANT DIFFERENCES.

9 DISTRICT RECORD DRAWINGS ARE AVAILABLE FOR REVIEW. ARCHITECT AND DISTRICT MAKE NO WARRANTIES AS TO THE SUITABILITY OF RECORD DRAWINGS OR ANY PARTICULAR PURPOSE. NO WORK SHOWN ON RECORD DRAWINGS IS INCLUDED IN THE WORK OF THIS CONTRACT.

10 DISCREPANCIES BETWEEN THE DRAWINGS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE ARCHITECT. CORRECTED DRAWINGS OR INSTRUCTIONS SHALL BE ISSUED BY THE ARCHITECT PRIOR TO COMMENCEMENT OF SAID WORK.

11 THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE UNLESS OTHERWISE SHOWN, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY FIELD REPRESENTATIVES OF THE ARCHITECT AND ENGINEERS SHALL NOT INCLUDE INSPECTIONS OF THE PROTECTIVE MEASURES OR THE CONSTRUCTION PROCEDURES REQUIRED FOR SAME, WHICH ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ANY SUPPORT SERVICES PERFORMED BY THE ARCHITECT AND HIS ENGINEERS DURING CONSTRUCTION SHALL BE DISTINGUISHED FROM CONTINUOUS AND DETAILED INSPECTION SERVICES WHICH ARE FURNISHED BY OTHERS. THESE SUPPORT SERVICES PERFORMED BY THE ARCHITECT AND HIS ENGINEERS, WHETHER OF MATERIAL OR WORK, AND WHETHER PERFORMED PRIOR TO DURING OR AFTER COMPLETION OF CONSTRUCTION ARE PERFORMED SOLELY FOR THE PURPOSE OF ASSISTING IN QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH CONTRACT DRAWINGS AND SPECIFICATIONS. BUT THEY DO NOT GUARANTEE CONTRACTOR'S PERFORMANCE AND SHALL NOT BE CONSTRUED AS SUPERVISION OF CONSTRUCTION.

12 THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH THE WORK.

13 WRITTEN DIMENSIONS SHALL BE USED FOR LAY-OUT. DO NOT SCALE DRAWINGS.

14 ALL DIMENSIONS ARE TO FACE OF STUDS, FACE OF CONCRETE OR MASONRY, FACE OF FINISH WHERE NOTED, AND CENTERLINE OF COLUMNS, UNLESS NOTED OTHERWISE. ALL DIMENSIONS NOTED AS "CLEAR" SHALL BE TO FACE OF FINISH. ALL DOOR OPENINGS ARE OFFSET 4" FROM THE INSIDE CORNER U.O.N.

15 REFERENCE TO ANY DETAIL OR DRAWING IS FOR CONVENIENCE ONLY AND DOES NOT LIMIT THE APPLICATION OF SUCH DETAIL OR DRAWINGS.

16 THE CONTRACTOR SHALL PROVIDE COORDINATION BETWEEN ALL SUBCONTRACTORS AND TRADES.

17 THE DRAWINGS INDICATE THE END RESULT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE JOB SITE PRIOR TO BID SUBMITTAL TO DETERMINE ANY PROBLEMS HE WILL HAVE IN PERFORMING THE WORK. THE BID SHALL INCLUDE THE COST OF THE RESOLUTION OF ALL PROBLEMS.

18 ANY CONDITIONS NOT COVERED BY THESE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BY THE CONTRACTOR OR DISTRICT PRIOR TO BIDDING.

19 PROVIDE ACCESSIBLE FACILITIES IN ACCORDANCE WITH C.A.C. TITLE 24 AND AS REQUIRED BY THE AMERICANS WITH DISABILITIES ACT (ADA). NOTIFY IOR FOR RULING ON CONFLICT BETWEEN REGULATIONS.

20 THESE DRAWINGS WERE PREPARED IN A MANNER CONSISTENT WITH EXISTING PROFESSIONAL STANDARDS AND WITH THE UNDERSTANDING THAT THESE DRAWINGS WOULD BE USED SOLELY BY QUALIFIED AND EXPERIENCED CONTRACTORS AND/OR DESIGN PROFESSIONALS FOR USE IN THE CONSTRUCTION OF THIS SPECIFIC PROJECT ONLY. THE DETAILS INDICATED ON THESE PLANS REPRESENT GENERAL TYPICAL DETAILS REQUIRED FOR COMMUNICATING THIS PROJECT'S DESIGN INTENT TO SUCH AND MAY NOT INCLUDE ALL THE DETAILS NECESSARY FOR THE FINAL COMPLETION OF THIS PROJECT.

21 DETAILS MARKED TYPICAL ON DRAWINGS ARE INTENDED FOR TYPICAL CONDITIONS ON THE ENTIRE PROJECT AND ARE APPLICABLE TO APPLY WHERE SIMILAR CONDITIONS OCCUR.

22 THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK AND/OR EQUIPMENT SUPPLIED BY THE OWNER.

23 DUE TO THE DIFFICULTY OF ANTICIPATING EVERY UNSATISFACTORY CONDITION THAT MIGHT BE FOUND IN EXISTING CONSTRUCTION WHERE ALTERATION, REHABILITATION OR RECONSTRUCTION WORK IS PROPOSED, THE FOLLOWING CLAUSE OR ONE OF SIMILAR MEANING SHALL BE INCLUDED IN ALL SPECIFICATIONS FOR ALTERATION, REHABILITATION OR RECONSTRUCTION PROJECTS: "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 CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE-24, C.C.R., A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK WILL BE SUBMITTED TO AND APPROVED BY THE ARCHITECT, THE SCHOOL DISTRICT, AND DSA BEFORE PROCEEDING WITH THE WORK.

24 THE ARCHITECT OR ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ACTION TAKEN BY ANYONE ON THE PROJECT IF THAT PERSON IS KNOWLEDGEABLE OF ANY DISCREPANCIES, OMISSIONS OR AMBIGUITY IN THE DRAWINGS OR SPECIFICATIONS UNTIL THE ARCHITECT OR ENGINEER HAS BEEN NOTIFIED, HAS CORRECTED THE DISCREPANCY, OR MORE CLEARLY EXPLAINED THE INTENT OF THE DRAWINGS OR SPECIFICATIONS.

25 THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT THROUGH THE CONSTRUCTION MANAGER FOR REVIEW AND APPROVAL. NO FABRICATION, ERECTION, OR INSTALLATION OF MATERIALS SHALL BE STARTED WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT.

26 THE CONTRACTOR SHALL COOPERATE WITH ALL OTHER CONTRACTORS WHO MAY BE PERFORMING WORK ON BEHALF OF THE CLIENT AND WORKMEN WHO MAY BE EMPLOYED BY THE CLIENT ON ANY WORK IN THE VICINITY OF THE WORK TO BE DONE UNDER THIS CONTRACT; AND THE CONTRACTOR SHALL CONDUCT HIS/HER OPERATIONS AS TO INTERFERE TO THE LEAST POSSIBLE EXTENT WITH THE WORK OF OTHER SUCH CONTRACTORS OR WORKMEN.

27 THE DESIGN, ADEQUACY, AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC., DURING DEMOLITION AND CONSTRUCTION, IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR, AND HAS NOT BEEN CONSIDERED BY THE STRUCTURAL ENGINEER.

28 PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL SECURE THE AREA SO THAT NO UNAUTHORIZED PERSONNEL OR CHILDREN SHALL GAIN ACCESS TO THE PROJECT AREA OR PROJECT STAGING AREAS.

29 THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE EXISTING BUILDING(S) FROM WEATHER DAMAGE DURING CONSTRUCTION. ALL DAMAGE SHALL BE REPAIRED TO THE SATISFACTION OF THE CLIENT AND PAID FOR BY THE CONTRACTOR.

30 CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SECURING HIS/HER EQUIPMENT, SUPPLIES, TOOLS, ETC.

31 IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSES OF REPAIR OR REPLACEMENT IN CONJUNCTION WITH THE EXECUTION OF THIS WORK. ANY DAMAGE TO UTILITIES SHALL BE REPORTED TO THE CONSTRUCTION MANAGER AND CENTRAL PLANT OPERATIONS IMMEDIATELY.

32 THE CONTRACTOR SHALL SAFEGUARD THE OWNERS PROPERTY DURING CONSTRUCTION AND SHALL REPLACE ANY DAMAGED PROPERTY OF THE OWNER TO ORIGINAL CONDITION OR BETTER.

33 THE CONTRACTOR WARRANTS TO THE OWNER AND THE ARCHITECT THAT ALL MATERIALS AND EQUIPMENT FURNISHED WILL BE NEW UNLESS OTHERWISE SPECIFIED AND THAT ALL WORK WILL BE OF GOOD QUALITY, FREE FROM FAULTS AND DEFECTS.

34 CONTRACTOR TO PROVIDE PORTABLE FIRE EXTINGUISHER UNITS IN RECESSED CABINETS AS SPECIFIED BY LOCAL AUTHORITY HAVING JURISDICTION. LOCATION AND TYPE OF UNIT WILL BE DETERMINED BY LOCAL AUTHORITY HAVING JURISDICTION. THE MAXIMUM FLOOR TRAVEL DISTANCE SHALL NOT EXCEED 75 FT. TO THE NEAREST EXTINGUISHER FROM ANY POINT IN THE BUILDING WITHOUT NEEDING TO GO UP OR DOWN STAIRS.

35 THE CONTRACTOR SHALL BE RESPONSIBLE FOR LEAVING ALL FINISHED SURFACES CLEAN AT THE COMPLETION OF THE WORK AND SHALL REMOVE ALL EXCESS MATERIAL AND DEBRIS FROM THE JOB REGULARLY WHENEVER POSSIBLE, PREVIOUS TRENCH CUTS SHALL BE USED TO MINIMIZE PAVEMENT CUTS.

36 WORKMANSHIP SHALL BE OF THE HIGHER QUALITY AND NOT LESS THAN THE MINIMUM STANDARDS AS EXPECTED OF THE APPLICABLE TRADE OR PROFESSION, COMPLETELY FINISHED, SAFE, NEAT THROUGHOUT AND PERFORMED BY COMPETENT AND EXPERIENCED WORKMEN. CONSTANT SUPERVISION OF WORK BY CONTRACTOR SHALL BE MAINTAINED.

37 ALL NEW CONSTRUCTION MATERIALS SHALL BE 100% ASBESTOS FREE.

38 NO HAZARDOUS MATERIALS WILL BE STORED AND/OR USED WITHIN THE BUILDING WHICH EXCEED THE QUANTITIES LISTED IN CBC TABLES 307.1(1) AND 307.1(2)

39 CONTRACTOR'S ACCESS SHALL BE APPROVED BY CLIENT, INCLUDING MATERIAL STORAGE AND VEHICLE PARKING. CONTRACTOR SHALL LIMIT STORAGE AND PARKING TO THE DESIGNATED AREAS.

40 ITEMS OF A MECHANICAL OR ELECTRICAL NATURE MAY NOT NECESSARILY APPEAR ON THE ARCHITECTURAL DRAWINGS. SEE THE APPROPRIATE DRAWINGS FOR ITEMS OF THIS NATURE.

41 FOR ALL WALL MOUNTED AND SEMI-RECESS MOUNTED EQUIPMENT, WHITE BOARDS, ACCESSORIES, CABINETS, HANDRAILS, MECHANICAL/ELECTRICAL EQUIPMENT, DOOR STOPS, SIGNAGE, MAGNETIC DOOR HOLD-OPEN DEVICES, ETC. PROVIDE AND INSTALL SOLID BLOCKING.

42 DISSIMILAR METALS: SEPARATE DISSIMILAR METALS WITH BITUMINOUS PAINT, OR A SUITABLE SEALANT, OR A NON-ABSORPTIVE PLASTIC OR ELASTOMERIC TAPE, OR A GASKET BETWEEN THE SURFACES. DO NOT USE COATING CONTAINING LEAD.

43 PROTECTION: WHEREVER ALUMINUM IS IN CONTACT WITH CONCRETE, APPLY BITUMINOUS PAINT OR BY SUCH OTHER ISOLATION APPROVED IN ADVANCE BY THE ARCHITECT.

44 CONTRACTOR TO CHECK AND VERIFY SIZE AND LOCATION OF DUCTS, PLUMBING RUNS AND MECHANICAL EQUIPMENT WITH MECHANICAL AND PLUMBING CONTRACTORS BEFORE CONSTRUCTING WALLS, FLOOR, CEILINGS, CABINETS, EQUIPMENT BASES, ETC.

45 CONTRACTOR TO CHECK, VERIFY SIZES AND COORDINATE THE LOCATION AND PATH OF MECHANICAL DUCT WORK, ELECTRICAL, LOW VOLTAGE A/V CONDUITS AND FIRE PROTECTION SYSTEM PIPING. OVERCOME ANY CONFLICT BETWEEN THE LAYOUTS OF THESE SYSTEMS THAT MAY RISE DUE TO FIELD CONDITIONS AND PROVIDE THE NECESSARY CHANGES WITHOUT COMPROMISING THE EFFICIENCY AND THE INTEGRITY OF THESE SYSTEMS.

46 FOR INTERIOR FINISH MATERIALS AND COLORS REFER TO FINISH AND COLOR SCHEDULES. THE FLAME SPREAD RATING OF INTERIOR FINISHES SHALL NOT EXCEED "75." FINISH MATERIAL SHALL BE APPROVED BY THE STATE FIRE MARSHAL, OR BUILDING OFFICIAL WITH AGENCY HAVING JURISDICTION PRIOR TO INSTALLATION.

47 PENETRATION OF FIRE-RESISTIVE WALLS, FLOOR-CEILINGS AND ROOF-CEILINGS SHALL BE PROTECTED AS REQUIRED IN CBC SECTIONS 711 AND 712.

48 WALL AND CEILING MATERIALS SHALL NOT EXCEED THE FLAME SPREAD CLASSIFICATIONS IN CFC TABLE 803.3.

49 SUSPENDED CEILINGS SHALL COMPLY WITH ASTM C 635, SECTION 1616A.1.20 2019 CBC FOR HIGH SEISMIC AREAS, IR 25-1, IR 25-2.13, AND IR 25-3.13

50 NO CUTTING, CHIPPING OR OTHER MODIFICATION OF STRUCTURE IS ALLOWED EXCEPT AS SHOWN OR BY WRITTEN DECISION OF ARCHITECT.

51 CONSUMPTION OF ALCOHOLIC BEVERAGES OR USE OF CONTROLLED SUBSTANCES IS PROHIBITED ON DISTRICT PROPERTY. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ENFORCING THIS PROHIBITION FOR EMPLOYEES, SUBCONTRACTORS AND THEIR EMPLOYEES, OR OTHER PERSONS RELATED TO THE PROJECT THROUGH OR BY THE CONTRACTOR.

52 AT NO TIME DURING CONSTRUCTION AND UNDER THIS CONTRACT SHALL THE CONTRACTOR PLACE, OR CAUSE TO BE PLACED, ANY MATERIALS AND/OR EQUIPMENT, ETC., AT A LOCATION THAT WOULD IMPEDE OR IMPAIR ACCESS TO OR FROM THE PRESENT FACILITIES, WITHOUT PRIOR CLIENT APPROVAL.

53 THE CONTRACTOR SHALL EXERCISE MAXIMUM DUST AND NOISE CONTROL DURING CONSTRUCTION HOURS, AND MUST COMPLY FULLY WITH CLIENT CONSTRUCTION GUIDELINES.

54 THE WORK AREA SHALL BE CLEANED AND ALL CONSTRUCTION DEBRIS AND DEMOLISHED MATERIALS SHALL BE DISPOSED OF BY THE CONTRACTOR AT A LEGAL DUMP. AT THE CONCLUSION OF THE PROJECT, THE CONTRACTOR SHALL LEAVE THE WORK AREA AND SITE CLEAN AND IN THE SAME CONDITION AS PRIOR TO THE CONSTRUCTION OF THIS PROJECT.

55 CONTRACTOR SHALL MAKE SITE VISITS AND SURVEY EXISTING CONDITIONS DURING BID PERIOD.

56 CONTRACTOR SHALL SUBMIT THE FINAL COMPACTION REPORT(S) AND SOILS ENGINEER'S INSPECTION REPORT TO THE INSPECTOR OF RECORD PRIOR TO FOUNDATION INSPECTION BY IOR AND STRUCTURAL ENGINEER AND PRIOR TO POURING ANY CONCRETE.

57 WHERE WORK IMPACTS TURF AND PLANTED AREAS IT IS THE CONTRACTORS RESPONSIBILITY TO MAINTAIN ALL LANDSCAPING AND RETURN THE AREA TO ITS ORIGINAL CONDITION.

58 COMPENSATION INSURANCE MUST BE ON FILE BEFORE A PERMIT CAN BE ISSUED.

59 A CALIFORNIA STATE DIVISION OF INDUSTRIAL SAFETY PERMIT IS REQUIRED FOR EXCAVATION FIVE OR MORE FEET IN DEPTH AND FOR THE DEMOLITION OR CONSTRUCTION OF BUILDINGS OVER 36 FEET IN HEIGHT.

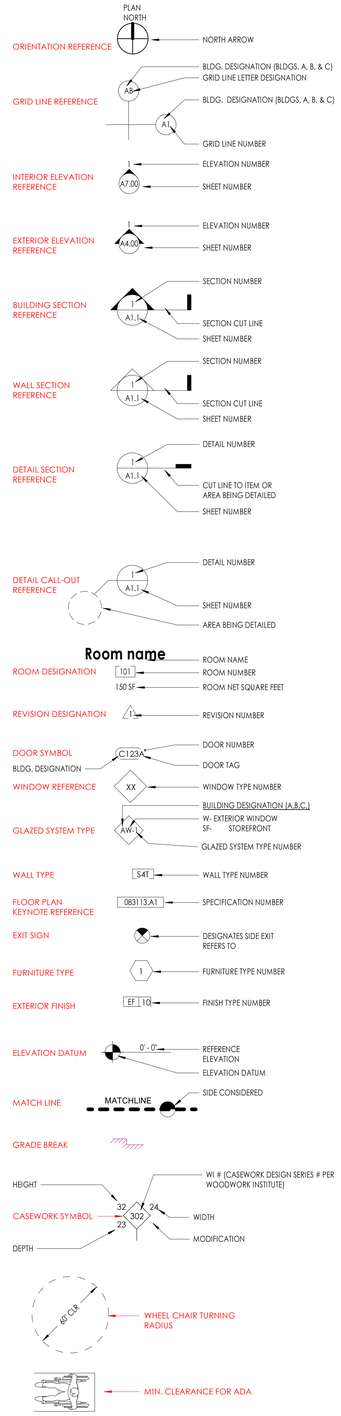
60 UPON CONCLUSION OF THE PROJECT, THE CONTRACTOR SHALL FURNISH MANUFACTURER'S SAFETY DATA LITERATURE (MSDS) FOR ALL HAZARDOUS MATERIALS BROUGHT ON SITE TO PERFORM THE WORK UNDER THIS CONTRACT. WARRANTIES AND GUARANTEES SHALL ALSO BE INCLUDED WITH THIS SUBMITTAL.

61 CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR CHANGE ORDER SIGNED BY ARCHITECT AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.

62 IF REQUIRED BY THE DIVISION OF THE STATE ARCHITECT, A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER), AND APPROVED BY THE ARCHITECT, STRUCTURAL ENGINEER, AND THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR, CLASS 1 INSPECTOR. FIELD INSPECTION IS NOT REQUIRED FOR ACCESS COMPLIANCE (ACS) REVIEW ONLY PROJECTS.

63 ALL WORK SHALL CONFORM TO 2019 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).

SYMBOLS



ABBREVIATIONS

A.B.	ANCHOR BOLT
A.C.	ASPHALT CONCRETE
A.D.	AREA DRAIN
A/C	AIR CONDITIONING
ABS.	ABSOLUTE
ABV.	ABOVE
ACC	ACCESSIBLE
ACOU.	ACOUSTIC
A.C.T.	ACOUSTIC TILE CEILING
ADJ.	ADJUSTABLE
ADJA.	ADJACENT
A.F.F.	ABOVE FINISHED FLOOR
AGGR.	AGGREGATE
AHU	AIR HANDLER UNIT
ALT.	ALTERNATE
ALUM.	ALUMINUM
ANOD.	ANODIZED
APL	ASSUMED PROPERTY LINE
ARCH.	ARCHITECTURAL
ASPH.	ASPHALT
AVG.	AVERAGE
B.M.	BEAM
B.O.	BOTTOM OF
B.U.R.	BUILT-UP ROOFING
B.O.D.	BASIS OF DESIGN
BD.	BOARD
BLDG.	BUILDING
BLK.	BLOCK
BLKG.	BLOCKING
C. B.	CATCH BASIN
C. BD.	CHALKBOARD
C.I.P.	CAST IN PLACE
C.J.	CONTROL JOINT
C.O.	CLEAN OUT
C.T.	CERAMIC TILE
CAB	CABINET
CEM	CEMENT
CER.	CERAMIC
CL	CENTERLINE
CLG.	CEILING
CLKG.	CAULKING
CLO.	CLOSET
CLR.	CLEAR
CMU	CONCRETE MASONRY UNIT
CNTR.	COUNTER
COL.	COLUMN
CONC.	CONCRETE
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
CONTR.	CONTRACTOR
CORR.	CORRIDOR
CTR.	CENTER
CTSK.	COUNTERSUNK
D.	DEEP, DEPTH
D.F.	DRINKING FOUNTAIN
D.S.	DOWN SPOUT
D.S.P.	DRY STANDPIPE
D/W	DISHWASHER
DBL.	DOUBLE
DEMO	DEMOLITION
DEPT.	DEPARTMENT
DET.	DETAIL
DIA. ( )	DIAMETER
DIAG.	DIAGONAL
DIM.	DIMENSION
DN	DOWN
DR.	DOOR
E.A.	EXPANSION ANCHOR
E.F.	EXHAUST FAN
E.J.	EXPANSION JOINT
EA.	EACH
EL	ELEVATION
ELECT.	"ELECTRIC, ELECTRICAL"
ELEV.	ELEVATOR
EQ.	EQUAL
EQUIP.	EQUIPMENT
EST.	ESTIMATE
EWC	ELECTRIC DRINKING WATER COOLER
EXIST., (E)	EXISTING
EXT.	EXTERIOR
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
F.F.	FINISH FLOOR
F.G.	FINISH GRADE
F.O.	FACE OF
F.O.B.	FACE OF BLOCK
F.O.C.	FACE OF CONCRETE
F.O.F.	FACE OF FINISH
F.O.M.	FACE OF MASONRY
F.O.S.	FACE OF STUDS
F.R.P.	FIBERGLASS REINFORCED PANEL
FA	FIRE ALARM
FAB.	FABRICATE
FD	FLOOR DRAIN
FDN.	FOUNDATION
FHC	FIRE HOSE CABINET
FIN.	FINISH
FL	FLOOR
FLG.	FLOORING
FLUOR.	FLUORESCENT
G.I.	GALVANIZED IRON
GA.	GAUGE
GALV.	GALVANIZED
GAR.	GARAGE
GB.	GRAB BAR
GL	GLASS
GLB	GLUE LAMINATED BEAM
GYP. BD.	GYPSUM BOARD
GYP.	GYPSUM
H.B.	HOSE BIBB
H.C.	HOLLOW CORE
H.M.	HOLLOW METAL
HDBD.	HARDBOARD
HDW.	HARDWARE
HGT.	HEIGHT
HOR.	HORIZONTAL
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING"
HW	HOT WATER
I.D.	INSIDE DIAMETER
INCL.	"INCLUDE, INCLUSIVE"
INSUL.	INSULATION
INT.	INTERIOR
IOR	INSPECTOR OF RECORD
JAN.	JANITOR
JST.	JOIST
KIT.	KITCHEN
L.R.	LIVING ROOM
LAM	LAMINATE
LAV	LAVATORY
LT.	LIGHT
LTG.	LIGHTING
M.B.	MACHINE BOLT
M.C.	MEDICINE CABINET
M.O.	MASONRY OPENING
MAS.	MASONRY
MAT'L	MATERIAL
MAX.	MAXIMUM
MECH.	MECHANICAL
MEMB.	MEMBRANE
MFG.	MANUFACTURING
MFR.	MANUFACTURER
MIN.	MINIMUM
MIR.	MIRROR
MISC.	MISCELLANEOUS
MTL.	METAL
M.D.	METAL DECK
MUL	MULLION
(N)	NEW
N.G.	NATURAL GRADE
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
NO.	NUMBER
NOM.	NOMINAL
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.F.C.I.	OWNER FURNISHED CONTRACTOR INSTALLED"
O.I.	ORNAMENTAL IRON
O/	OVER
OFF.	OFFICE
OPNG.	OPENING
OPP.	OPPOSITE
P. LAM.	PLASTIC LAMINATE
P.I.P.	POURED IN PLACE
P.L.	PROPERTY LINE
P.P.	PIPE PENETRATION
P.T.D.	PAPER TOWEL DISPENSER
PERF.	PERFORATED
PERP.	PERPENDICULAR
PH	PANIC HARDWARE
PHS	PHASE
PLAST.	PLASTER
PLUMB.	PLUMBING
PLYWD.	PLYWOOD
PORC.	PORCELAIN
PREFAB.	PREFABRICATED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PTN.	PARTITION
PVC	POLY-VINYL CHLORIDE
Q.T.	QUARRY TILE
QTY.	QUANTITY
R.	RISER
R.C.P.	REFLECTED CEILING PLAN
R.D.	ROOF DRAIN
R.H.	ROBE HOOK
R.O.	ROUGH OPENING
RAD.	RADIUS
REF	REFRIGERATOR
REINF.	REINFORCED
REQ'D	REQUIRED
RESIL.	RESILIENT
REV.	REVISION
RM	ROOM
S.C.	SOLID CORE
S.C.D.	SEAT COVER DISPENSER
S.D.	SOAP DISPENSER
S.F.	SQUARE FEET
S.N.D.	SANITARY NAPKIN DISPENSER
S.N.R.	SANITARY NAPKIN RECEPTACLE
S.S.	STAINLESS STEEL
SCHED.	SCHEDULE
SD.	SMOKE DETECTOR
SECT.	SECTION
SHR.	SHOWER
SHT'G.	SHEATHING
SIM.	SIMILAR
SL.	SLOPE
SLDG.	SLIDING
SPECS	SPECIFICATIONS
SPKR.	SPEAKER
SQ. IN.	SQUARE INCHES
STC	SOUND TRANSMISSION CLASS
STL.	STEEL
STOR.	STORAGE
STRL.	STRUCTURAL
SUSP.	SUSPENDED
SYM	SYMMETRICAL
SYS.	SYSTEM
T.B.	TACKBOARD
T & G	TONGUE AND GROOVE
T.O.	TOP OF
T.O.B.	TOP OF BEAM
T.O.C.	TOP OF CURB
T.O.F.	TOP OF FOOTING
T.O.J.	TOP OF JOIST
T.O.M.	TOP OF MASONRY
T.O.P.	TOP OF PARAPET
T.O.R.	TOP OF ROOF
T.O.S.	TOP OF STEEL
T.O.W.	TOP OF WALL
T.S.	TUBE STEEL
T.V.	TELEVISION OUTLET
TEL.	TELEPHONE
TH.	THRESHOLD
THD.	THREADED
THK.	THICK
THRU	THROUGH
TRANS.	TRANSFORMER
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
UR.	URINAL
V.I.F.	VERIFY IN FIELD
VCT	VINYL COMPOSITION TILE
VERT.	VERTICAL
VEST.	VESTIBULE
W.B.	WHITEBOARD
W.H.	WATER HEATER
W.I.	WROUGHT IRON
W.S.P.	WET STAND PIPE
W.S.	WINDOW SHADE
W/C	WATER CLOSET
W/O	WITHOUT
WCT	WAINSCOT
WD.	WOOD
WT.	WEIGHT
W/	WITH
YD.	YARD

DSA STAMP

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SEAL

AMMAR NAJI SARSAM
C-30902
12/31/2023

CONSULTANTS

PROJECT TITLE

HRC TEMP RELOCATABLE
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9200 VALLEY VIEW ST.
CYPRESS, CA 90630

CYPRESS COMMUNITY COLLEGE
9200 VALLEY VIEW ST.
CYPRESS, CA 90630

ISSUED		
#	DATE	DESCRIPTION
	04/06/2023	DSA BACKCHECK SUBMITTAL

PROJECT IDENTIFICATION

THE DRAWINGS IN THE SHEET INDEX WERE ORIGINALLY CREATED IN AUTODESK REVIT V. 2018 UNLESS OTHERWISE NOTED.

THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42".

SHEET TITLE

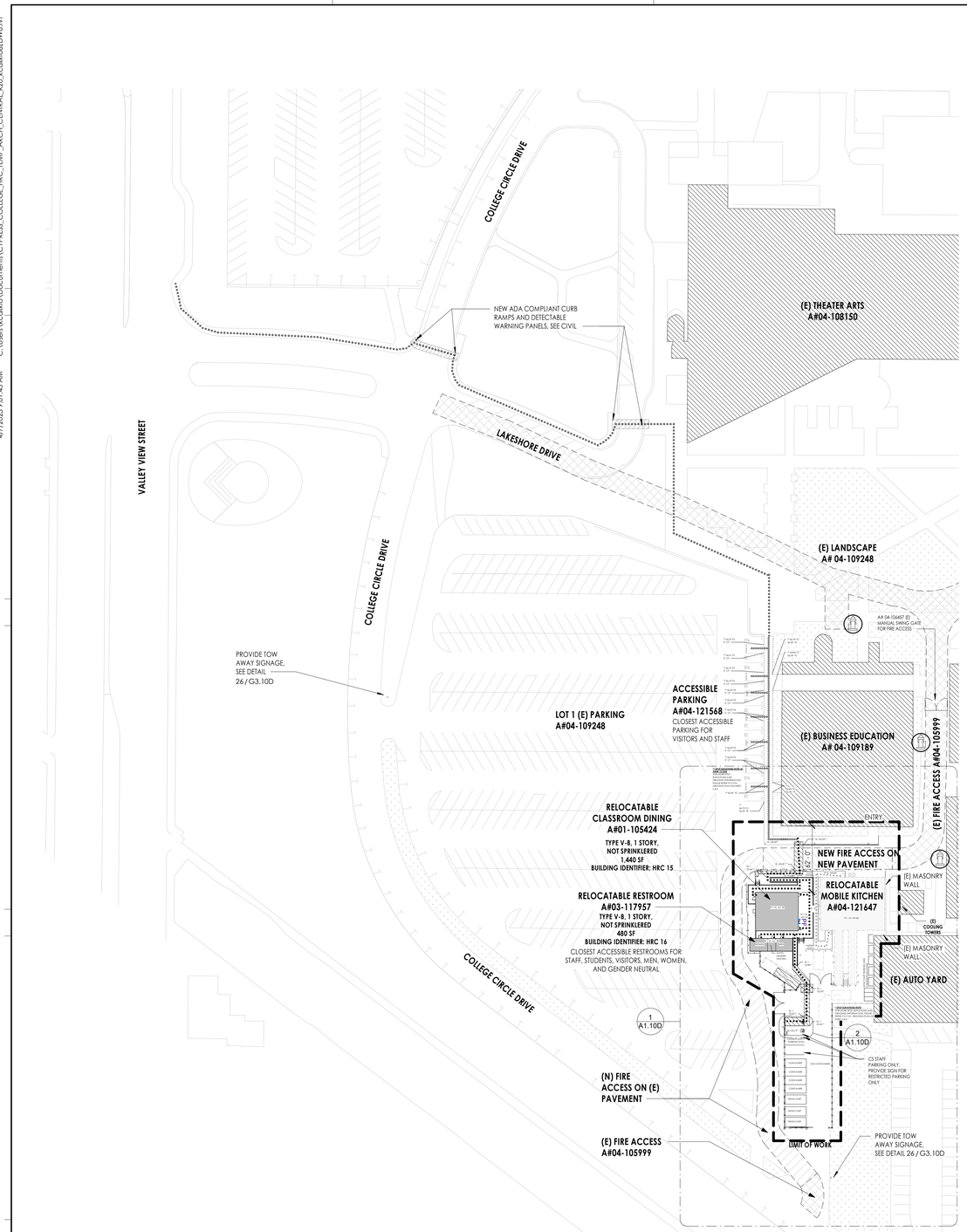
GENERAL NOTES,
SYMBOLS, AND
ABBREVIATIONS

SHEET NUMBER

G0.02

DSA SUBMITTAL

4/7/2023 9:01:45 AM C:\Users\kcolato\Documents\CYPRESS_COLLEGE_HRC_TEMP_ARCH_CENTRAL_R20_kcolato82DWU.rvt



CODE ANALYSIS SITE PLAN SCALE 1" = 50'-0" 2

CODE ANALYSIS LEGEND

- EXISTING FIRE HYDRANT
- A#04-113586 (E) ACCESSIBLE PATH OF TRAVEL FROM PUBLIC WAY AND PUBLIC TRANSPORTATION STOP
- ACCESSIBLE PATH OF TRAVEL TO ACCESSIBLE PARKING A#04-121568 (ACCESSIBLE PARKING SERVING THIS PROJECT)
- ACCESSIBLE PATH OF TRAVEL FOR CLASSROOM & RESTROOMS (PER THIS PROJECT)
- ACCESSIBLE PATH OF TRAVEL FROM MOBILE KITCHEN A#04- 121647 (CONNECTING TO POT OF CLASSROOM & RESTROOMS)
- LIMIT OF WORK LINE
- PROPOSED NEW RELOCATABLES
- EXISTING BUILDING
- EXISTING LANDSCAPE
- (N) DETECTABLE WARNING SURFACE, PER TO CIVIL, TYP..
- (E) CROSS-WALK STRIPING
- (N) CROSS-WALK STRIPING
- (E) FENCE TO REMAIN
- (N) FENCE - CHAIN LINK
- (N) GATE - CHAIN LINK
- (N) BOLLARDS

EGRESS LEGEND

PER TABLE 1004.1.2 , EXITING PLAN COMPLIES WITH CBC 2019.

1234 / 50 — AREA IN SQ. FT. / OCCUPANT FACTOR (SQ. FT. / PERSON)

25 / 1 / 3" — OCCUPANT LOAD

CALCULATED REQUIRED EXIT WIDTH (IN INCHES) TOTAL MIN. EGRESS WIDTH
2019 CBC 1005.3.1, EXCEPTION 1: OCCUPANT LOAD X 0.2 FOR STAIRWAY
2019 CBC 1005.3.2, EXCEPTION 1: OCCUPANT LOAD X 0.15 FOR OTHER EXITS
MIN. EXIT DOOR WIDTHS ARE 36"
MIN. STAIRWAY WIDTH SERVING OCCUPANT LOADS LESS THAN 50 IS 36"
MIN. STAIRWAY WIDTH SERVING OCCUPANT LOADS LESS THAN 50 IS 44"
MIN. REQUIRED NO. OF EXITS (BY CODE)

APPLICABLE CODES

LIST OF APPLICABLE CODES
2022* CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR
* EFFECTIVE 3/5/2022
2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2019 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
2019 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
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

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

SIGNAGE LEGEND

NO.	DESCRIPTION	DETAIL NO.
1	ROOM IDENTIFICATION (RD) SIGN: SEE DETAIL	1 / G3.11D
2	ASSISTIVE LISTENING SYSTEM AVAILABLE: SEE DETAIL	6 / G3.10D
3	ACCESSIBLE ENTRANCE SIGN (7" x 7"): SEE DETAIL **B**	2 / G3.11D
4	EXIT RAMP DOWN (ESRD) SIGN: SEE DETAIL **A**	7 / G3.10D
5	RESTROOM WALL SIGN (RWS) SIGN: SEE DETAIL FOR TYPICAL IDENTIFICATION FOR SANITARY FACILITIES	6 / G3.11D
6	FIRE LANE SIGN: SEE DETAIL	22 / G3.10D
7	NO PARKING SIGN: SEE DETAIL	25 / G3.10D
8	TOW AWAY SIGN: SEE DETAIL	26 / G3.10D
10	STOP SIGN: SEE DETAIL	24 / G3.10D
11	MAXIMUM OCCUPANCY SIGN: SEE DETAIL	28 / G3.10D
12	MEN RR DOOR (MRDS) & WALL (MRWS) SIGN: SEE DETAIL TYPICAL RESTROOM WALL AND DOOR IDENTIFICATION	6 / G3.11D
13	GENDER NEUTRAL RESTROOM DOOR (GNRDS) & WALL (GNRWS) SIGN: SEE DETAIL TYPICAL RR WALL & DOOR ID	6 / G3.11D
14	WOMEN RR DOOR (WRDS) & WALL (WRWS) SIGN: SEE DET. TYPICAL RESTROOM WALL AND DOOR IDENTIFICATION	6 / G3.11D
15	ACCESSIBLE DIRECTIONAL SIGN: SEE DETAIL **B**	2 / G3.11D
16	ACCESSIBLE DIRECTIONAL SIGN: SEE DETAIL **D**	2 / G3.11D

FLOOR PLAN KEYNOTES

1. SEMI RECESSED FIRE EXTINGUISHER CABINET W/PORTABLE FIRE EXTINGUISHER CLASS 2A-20BC. REFER TO DETAIL 18 / G3.10D
2. FRONT MOUNTED A/C UNIT, BARD-WALL MOUNTED AIR CONDITIONERS, STON MODEL WA602-A, ELECTRIC HEAT.
3. PANEL BOX
4. SUB PANEL
5. HOT WATER HEATERS
6. ACCESSIBLE HANDRAIL WITH 43" HIGH GUARDRAIL WITH MAX. 4" SPHERE OPENING AND 34" HANDRAIL, 1 1/2" DIA. PIPE.
7. DRINKING FOUNTAIN SEE PORTABLE MANUFACTURER DRAWINGS AND DETAIL 7 / G3.11D
8. ALL EXTERIOR WINDOW UNITS WILL BE FIXED SASH NOT OPENABLE
9. KITCHEN, STORAGE AND WALK-IN UNITS WILL HAVE EPOXY FINISH FLOORING AND COVED BASE AND ALL FLOOR AREAS UNDER FIXED EQUIPMENT SHALL BE SMOOTH TEXTURE EPOXY. BALANCE OF FLOOR AREA WILL BE TEXTURED. FOR COVE BASE. INSTALL EPOXY PER MANUFACTURER INSTRUCTIONS.
10. EXIT ONLY DOOR FROM FREEZER/REFRIGERATOR. DOOR WILL BE PROVIDED FOR EMERGENCY EXIT ONLY WITH A PANIC BAR ON THE INTERIOR FACE OF DOOR. DOOR EXTERIOR WILL HAVE NO ACCESS HARDWARE INSTALLED AND WILL BE EQUIPPED WITH A SELF CLOSER. DOOR WILL NOT BE USED FOR DELIVERY OR RE-SUPPLY.
11. EXIT ONLY DOOR WILL BE PROVIDED FOR EMERGENCY EXIT ONLY USE. NO ENTRY HARDWARE.
12. ALL EXTERIOR EXIT DOORS WILL HAVE SELF CLOSING HARDWARE
13. ELECTRICAL PANEL. SEE ELECTRICAL
14. PARTIAL HEIGHT WALL, SEE GLOBAL MODULAR DRAWINGS

ACCESSIBLITY NOTES

SITE ACCESSIBILTY PATH OF TRAVEL NOTES

1. PATH OF TRAVEL (P.O.T.) AS INDICATED IS A BARRIER FREE ACCESSIBLE ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" BEVELED AT A SLOPE NOT STEEPER THAN 1:2. EXCEPT THAT LEVEL CHANGES ARE 1/4" MAXIMUM VERTICAL, AND IS AT LEAST 48"WIDE.
2. SURFACE SHALL BE STABLE, FIRM AND SLIP RESISTANT, CROSS-SLOPE SHALL NOT BE STEEPER THAN 1:48 AND RUNNING SLOPE SHALL NOT BE STEEPER THAN 1:20 UNLESS OTHERWISE INDICATED (SECTION 11B-403.3).
3. P.O.T. SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MIN. (SECTION 11B-307.4) AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL SURFACE BETWEEN 27" AND 80" ABOVE FINISH FLOOR OR GROUND (SECTION 11B-307.2)
4. PROVIDE FLUSH TRANSITIONS AT ANY ADJOINING JOINTS BETWEEN NEW AND EXISTING (E) WALK SURFACES IN P.O.T.
5. ARCHITECT TO VERIFY THAT THERE ARE NO BARRIERS IN THE P.O.T AND THAT ALL P.O.T. COMPLY WITH SECTION 11B-206.

ACCESSIBILITY NOTES

1. ALL DRAWERS AND CABINETS SHALL HAVE OPENING HARDWARE THAT COMPLIES WITH ALL ACCESSIBILITY REQUIREMENTS.
2. HANDRAILS SHALL HAVE A SMOOTH SURFACE WITH NO SHARP CORNERS. ANY WALL OR OTHER ADJACENT SURFACE SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS. EDGES SHALL HAVE AN 1/8" RADIUS OR LARGER.
3. CENTER HAND ACTIVATED DOOR-OPENING HARDWARE BETWEEN 30" AND 44" A.F.F. DOORS SHALL OPERATE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, PANIC BARS, PUSH-PULL BARS, OR OTHER HARDWARE THAT'S OPERABLE WITHOUT THE ABILITY TO GRASP AND TWIST IN A SINGLE MOTION. EXIT DOOR HARDWARE SHALL BE AN APPROVED TYPE PER REQUIREMENTS OF CBC.
4. PUBLIC SPACES TO BE FULLY ACCESSIBLE PER CODE.
5. ALL UNITS SHALL BE ACCESSIBLE AND ADAPTABLE PER TITLE 24 CHAPTER 11A.

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

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

FLOOR PLAN - LEGEND

- (N) FLOOR SLAB
- (E) 2x4 STUD WALL PER PC DWGS.
- DOOR TAG - SEE DOOR SCHEDULE, SEE SHEET A9.10
- **FEC** FIRE EXTINGUISHER, 5 LBS DRY CHEMICAL WITH 2A: 10B-C UL RATING ON WALL MOUNTED BRACKET @ 48" A.F.F. TO HANDLE - BOTTOM OF FIRE EXTINGUISHER TO BE 26" A.F.F., TYP. SPACING MUST COMPLY WITH TITLE 19 ARTICLE 5, TYP. DISTANCE SHALL NOT EXCEED 75 FT TRAVEL DISTANCE FROM ANYWHERE IN THE BUILDING. SEE FLOOR PLANS FOR LOCATION.
- **PH** PANIC HARDWARE
- **DF** ACCESSIBLE DRINKING FOUNTAIN. SEE PORTABLE MANUFACTURER PC SHEET P1.0-PS AND DETAIL 7 / G3.11D

FLOOR PLAN - GENERAL NOTES

1. ALL DIMENSIONS ARE TO FACE OF STUD OR CENTERLINE OF COLUMN U.O.N.
2. COORDINATE AND FIELD VERIFY ALL DIMENSIONS PRIOR TO NEW WORK.
3. ALL EXISTING CONDITIONS/IMPROVEMENTS ARE TO REMAIN U.O.N - PROTECT, PATCH AND REPAIR EXISTING IMPROVEMENTS AFFECTED BY NEW WORK AS NEEDED.
4. FIRE EXTINGUISHER, 5 LBS DRY CHEMICAL WITH 2A: 10B-C UL RATING ON WALL MOUNTED BRACKET @ 48" A.F.F. TO HANDLE - 4" MAX. PROTRUSION, TYP. SPACING MUST COMPLY WITH TITLE 19 ARTICLE 5, TYP. DISTANCE SHALL NOT EXCEED 75 FT TRAVEL DISTANCE FROM ANYWHERE IN THE BUILDING.
5. SEE ELECTRICAL DRAWINGS FOR IDF, AND ELECTRICAL EQUIPMENT.
6. REFER TO SHEET G3.10D FOR ADA CLEARANCE REQUIREMENTS.

FLOOR PLAN SCALE 3/32" = 1'-0" 1

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SEAL

LICENSED ARCHITECT
AMMAR NAJI SARSAM
C-30902
12/31/2023
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANTS

PROJECT TITLE

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CYPRESS, CA 90630

Cypress College

CYPRESS COMMUNITY COLLEGE
9200 VALLEY VIEW ST.
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ISSUED

#	DATE	DESCRIPTION
	04/06/2023	DSA BACKCHECK SUBMITTAL

PROJECT IDENTIFICATION

THE DRAWINGS IN THE SHEET INDEX WERE ORIGINALLY CREATED IN AUTODESK REVIT V. 2018 UNLESS OTHERWISE NOTED.

THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42".

SHEET TITLE

CODE ANALYSIS SITE & FLOOR PLANS

SHEET NUMBER

G1.10D

DSA SUBMITTAL

CODE ANALYSIS

RELOCATABLE CLASSROOM DINING AND RESTROOMS

TYPE OF CONSTRUCTION, CBC 601, 602.2 — **TYPE V-B**

OCCUPANCY GROUPS, CBC 303, 304, 311, 508.3.2 — **GROUP A-2**

FIRE SPRINKLERS SYSTEM
NO FIRE SPRINKLER SYSTEM IS PROVIDED OR REQUIRED

MIXED USE AND OCCUPANCY, CBC 508
NONSEPARATED OCCUPANCIES, CBC 508.3.2
ALLOWABLE BUILDING AREA, HEIGHT, AND NUMBER OF STORIES IS BASED ON THE MOST RESTRICTIVE ALLOWANCES FOR THE OCCUPANCY GROUP.

BUILDING HEIGHT AND NUMBER OF STORIES, CBC 503, 504
ALLOWABLE BUILDING HEIGHT, CBC TABLE 504.3 — 75 FEET
ALLOWABLE NUMBER OF STORIES, CBC TABLE 504.4 — 3 STORIES
PROPOSED BUILDING NO. OF STORIES: — **1 STORY, COMPLIANT**

BUILDING AREA, CBC 506
ALLOWABLE AREA FACTOR, TABLE 506.2
A-2 OCCUPANCY, 5M W/O HEIGHT INCREASE: 28,500 SF
PROPOSED BUILDING AREA PER FLOOR

1ST FLOOR CLASSROOM DINING: 1,364 SF ENCLOSED + 270 SF ROOF OVERHANG = 1,634 SF < 28,500 SF, COMPLIANT
1ST FLOOR RESTROOM: 380 SF ENCLOSED < 28,500 SF, COMPLIANT

TOTAL BUILDING AREA: 2,014 SF

NET SQUARE FOOTAGE ADDED EXCLUDING OVERHANG
1ST FLOOR: 1,745 SF

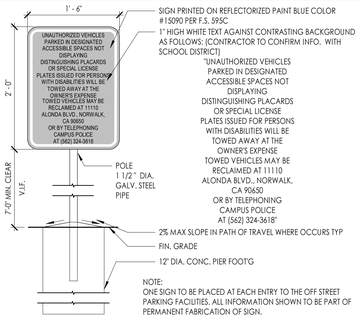
FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (HOURS) FOR TYPE VB, TABLE 601
(BUILDING ELEMENT, HOURS)

• PRIMARY STRUCTURES	0 HOUR	CBC TABLE 601
• EXTERIOR BEARING WALLS	0 HOUR	
• INTERIOR BEARING WALLS	0 HOUR	
• EXTERIOR NONBEARING WALLS & PARTITIONS	0 HOUR	CBC TABLE 602
• INTERIOR NONBEARING WALLS & PARTITIONS	0 HOUR	
• FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0 HOUR	
• ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0 HOUR	

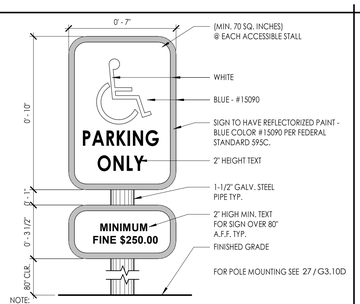
FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE, TABLE 602
- MORE THAN 10 FEET & LESS THAN 30 FEET, VB CONSTRUCTION - OCCUPANCY GROUP A: 0 HOURS

MAXIMUM AREA OF EXTERIOR WALL OPENINGS BASED ON FIRE SEPARATION DISTANCE AND DEGREE OF OPENING PROTECTION, TABLE 705.8

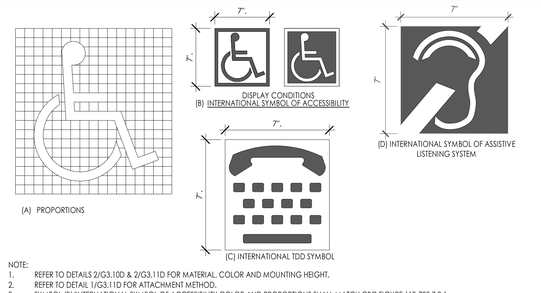
FIRE SEPARATION DISTANCE: 20 FEET TO LESS THAN 25
DEGREE OF OPENING PROTECTION; UNPROTECTED, NONSPRINKLERED (UP, NS)
ALLOWABLE AREA: 45% EXTERIOR OPENINGS



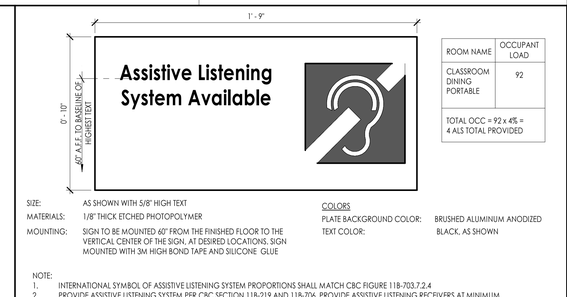
TOW AWAY SIGNAGE
SCALE 1" = 1'-0" | 26



ACCESSIBLE PARKING SIGNAGE
SCALE 3" = 1'-0" | 21



INTERNATIONAL SYMBOLS DETAIL
SCALE 3" = 1'-0" | 11



ROOM NAME	OCCUPANT LOAD
CLASSROOM DINING PORTABLE	92
TOTAL OCC = 92 x 4% = 4 ALS TOTAL PROVIDED	

SIZE: AS SHOWN WITH 5/8" HIGH TEXT
MATERIALS: 1/8" THICK ETCHED PHOTOPOLYMER
MOUNTING: SIGN TO BE MOUNTED 40" FROM THE FINISHED FLOOR TO THE VERTICAL CENTER OF THE SIGN, AT DESIRED LOCATIONS. SIGN MOUNTED WITH 3M HIGH BOND TAPE AND SILICONE GLUE

COLORS
PLATE BACKGROUND COLOR: BRUSHED ALUMINUM ANODIZED
TEXT COLOR: BLACK, AS SHOWN

NOTE:
1. INTERNATIONAL SYMBOL OF ASSISTIVE LISTENING SYSTEM PROPORTIONS SHALL MATCH CBC FIGURE 11B-703.7.2.4
2. PROVIDE ASSISTIVE LISTENING SYSTEM PER CBC SECTION 11B-219 AND 11B-706. PROVIDE ASSISTIVE LISTENING RECEIVERS AT MINIMUM OF 4% OF THE TOTAL NUMBER OF OCCUPANTS. NO LESS THAN (2) RECEIVERS. MINIMUM 2 OF THE 4 ARE HEARING AID COMPATIBLE.
3. FOR BRAILLE REFER TO 2 / G3.10D

ASSISTIVE LISTENING SIGNAGE
SCALE 3" = 1'-0" | 6

GENERAL NOTE:
1. SIGNAGE REQUIRED, PER APPLICABLE CODES LISTED ON COVER SHEETS, ARE PROVIDED AND INSTALLED BY DISTRICT ON SITE.
1. SIGNAGE REQUIRED, PER APPLICABLE CODES LISTED ON COVER SHEETS, ARE PROVIDED AND INSTALLED BY OTHERS ON SITE.

CBC 11B-703 REQUIREMENTS FOR RAISED CHARACTERS, BRAILLE AND VISUAL CHARACTERS

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

RAISED CHARACTERS SHALL BE 1/32 INCH (0.8 MM) MINIMUM ABOVE THEIR BACKGROUND TO COMPLY WITH 11B-703.2.1.

CHARACTERS SHALL BE UPPERCASE TO COMPLY WITH 11B-703.2.2.

CHARACTERS SHALL BE SANS SERIF TO COMPLY WITH 11B-703.2.3.

CHARACTERS SHALL 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 UPPER CASE LETTER 'I' TO COMPLY WITH 11B-705.2.4.

CHARACTER HEIGHT MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8 INCH (15.9 MM) MINIMUM AND 2 INCHES (51 MM) MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER 'I' TO COMPLY WITH 11B-703.2.5.

STROKE THICKNESS OF THE UPPERCASE LETTER 'I' SHALL BE 15 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER TO COMPLY WITH 11B-703.2.6.

CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND TO COMPLY WITH 11B-705.1.

CHARACTER SPACING AND LINE SPACING TO COMPLY WITH 11B-703.2.7 AND 11B-703.2.8.

TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES MINIMUM TO BASELINE OF THE LOWEST BRAILLE CELLS AND 60 INCHES MAXIMUM TO THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS ABOVE THE FINISH FLOOR OR GROUND SURFACE PER 11B-703.4.1 SECTION AND FIGURE.

TACTILE SIGNS SHALL BE LOCATED PER 11B-703.4.2 SECTION AND FIGURE AS FOLLOWS:
- ALONGSIDE A SINGLE DOOR AT THE LATCH SIDE.
- ON THE INACTIVE LEAF AT THE DOUBLE DOORS WITH ONE ACTIVE LEAF.
- TO THE RIGHT OF THE RIGHT HAND DOOR AT DOUBLE DOORS WITH TWO ACTIVE LEAFS
- ON THE NEAREST ADJACENT WALL WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR AT THE RIGHT SIDE OF THE DOUBLE DOORS WITH TWO ACTIVE LEAFS.
- SO THAT A CLEAR FLOOR SPACE OF 18" X 18" MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION.

VISUAL CHARACTERS SHALL COMPLY WITH 11B-703.5 AND SHALL BE 40 INCHES MINIMUM ABOVE FINISH FLOOR OR GROUND. CHARACTER HEIGHT SHALL BE DETERMINED BASED UPON HEIGHT ABOVE GROUND AND HORIZONTAL VIEWING DISTANCE PER 11B-703.5.5.

PROPORTIONS FOR VISUAL CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60 PERCENT MINIMUM AND 110% MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I". STROKE THICKNESS SHALL BE 10% MINIMUM AND 20% MAXIMUM OF THE HEIGHT OF THE CHARACTER. SECTIONS 11B-703.5.4 AND 11B-703.5.7.

PICTOGRAMS SHALL COMPLY WITH 11B-703.6.

SYMBOLS OF ACCESSIBILITY SHALL COMPLY WITH 11B-703.7.

VARIABLE MESSAGE SIGNS SHALL COMPLY WITH 11B-703.8.

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

11B-703.3.1 DIMENSIONS AND CAPITALIZATIONS. BRAILLE DORS SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHAL 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 THE TEXT IS MULTI-LINED, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT. BRAILLE SHALL BE SEPARATED 3/8 INCH (9.5MM) MINIMUM AND 1/2 INCH (12.7 MM) MAXIMUMFROM ANY OTHER TACTILE CHARACTERS AND 3/8 INCH (9.5MM) MINIMUM FROM RAISED BORDERS AND DECORATIVE ELEMENTS

TABLE 11B-703.3.1 BRAILLE DIMENSIONS

MEASUREMENT RANGE	MINIMUM IN INCHES MAXIMUM IN INCHES
Dot base diameter	0.059 (1.5 mm) to 0.063 (1.6 mm)
Distance between two dots in the same cell[1]	0.100 (2.5 mm)
Distance between corresponding dots in adjacent cells[1]	0.300 (7.6 mm)
Dot height	0.025 (0.6 mm) to 0.037 (0.9 mm)
Distance between corresponding dots from one cell directly below[1]	0.395 (10 mm) to 0.400 (10.2 mm)

1. Measured center to center.

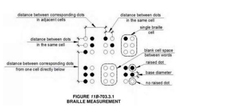
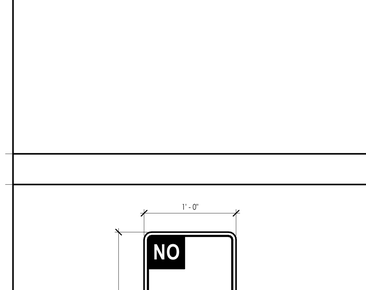
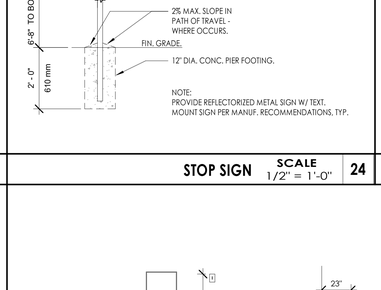


FIGURE 11B-703.3.1 BRAILLE MEASUREMENT

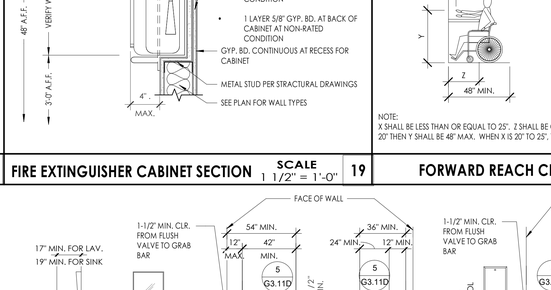
GENERAL NOTES - SIGNAGE
SCALE 1/2" = 1'-0" | 2



POLE MOUNT SIGN
SCALE 1/2" = 1'-0" | 27



FIRE LANE SIGN
SCALE 1 1/2" = 1'-0" | 22



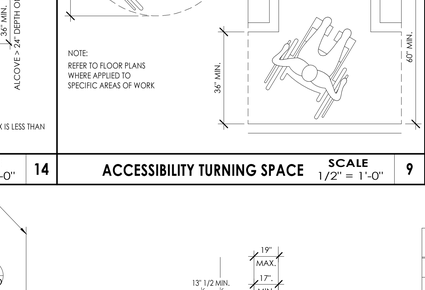
SIGN - TOP VIEW
SCALE 12" = 1'-0" | 17

EXIT PATH SIGNAGE

SIZE: AS SHOWN WITH 1" HIGH TEXT
MATERIALS: 1/8" THICK ETCHED PHOTOPOLYMER
GRAPHICS: RAISED (MIN 1/32") TEXT WITH CORRESPONDING GRADE 2 BRAILLE.
MOUNTING: SIGN TO BE MOUNTED 48" ABOVE THE FINISHED FLOOR, MEASURED FROM THE BASELINE OF THE LOWEST LINE OF BRAILLE AND 60" MAXIMUM ABOVE THE FINISHED FLOOR, MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS. SIGN TO BE NO CLOSER THAN 4" AND NO FARTHER THAN 12" AWAY FROM THE LATCH SIDE OF THE DOOR. SIGN MOUNTED WITH 3M HIGH BOND TAPE AND SILICON GLUE.

COLORS
PLATE BACKGROUND COLOR: BRUSHED ALUMINUM ANODIZED
TEXT COLOR: BLACK

NOTE:
1. REFER TO SIGNAGE GENERAL NOTES FOR KEYNOTES.
2. REFER TO CODE ANALYSIS AND SIGN LOCATION



EXIT SIGNAGE DETAILS
SCALE 1 1/2" = 1'-0" | 7

ROOM CAPACITY SIGNAGE IS TO BE POSTED IN A CONSPICUOUS PLACE NEAR THE MAIN EXIT OR EXIT ACCESS DOORWAY FROM THE ROOM POSTING SHALL BE BY MEANS OF A DURABLE SIGN HAVING CONTRASTING COLOR FROM THE BACKGROUND TO WHICH IT IS ATTACHED. SIGN SHALL INDICATE THE NUMBER OF OCCUPANTS PERMITTED FOR EACH ROOM USE.

SIZE: AS SHOWN WITH 5/8" HIGH TEXT
MATERIALS: 1/8" THICK ETCHED PHOTOPOLYMER
MOUNTING: SIGN TO BE MOUNTED 60" FROM THE FINISHED FLOOR TO THE VERTICAL CENTER OF THE SIGN, AT DESIRED LOCATIONS. SIGN MOUNTED WITH 3M HIGH BOND TAPE AND SILICON GLUE

COLOR
PLATE BACKGROUND COLOR: BRUSHED ALUMINUM ANODIZED
TEXT COLOR: BLACK AND WHITE AS SHOWN

MAXIMUM OCCUPANCY SIGNAGE (GATE OPEN SIGNAGE, SIM.)
SCALE 1 1/2" = 1'-0" | 28

VAN ACCESSIBLE PARKING SIGNAGE
SCALE 1/2" = 1'-0" | 23

FIRE EXTINGUISHER CABINET
SCALE 3" = 1'-0" | 18

MIN. CLEARANCES FOR SEATING & TABLE
SCALE 1/2" = 1'-0" | 13

FIRE LANE ENTRANCE SIGN
SCALE 1/2" = 1'-0" | 8

TYP. CLEARANCE @ ACCESSIBLE SINK
SCALE 1" = 1'-0" | 4

STOP SIGN
SCALE 1/2" = 1'-0" | 24

FIRE EXTINGUISHER CABINET SECTION
SCALE 1 1/2" = 1'-0" | 19

FORWARD REACH CLEARANCE
SCALE 1/4" = 1'-0" | 14

ACCESSIBILITY TURNING SPACE
SCALE 1/2" = 1'-0" | 9

SIZE: AS SHOWN
MATERIALS: .06 REFLECTORIZED ALUMINUM
GRAPHICS: RED SCREEN PRINTED GRAPHICS
MOUNTING: SIGN TO BE PERMANENTLY POSTED AND IMMEDIATELY ADJACENT TO AND VISIBLE FROM APPROACHING VEHICULAR PATH POLE MOUNTED PER DETAIL 27 / G3.10D

NO PARKING SIGN
SCALE 1 1/2" = 1'-0" | 25

MOUNTING HEIGHT SCHEDULE PER CBC 11B-603 THROUGH 606

	DIMENSION	A A (INCHES)
A	TOILET CENTERING FROM WALL	17.5" [ACC.] 18" [AMB.]
B	TOILET SEAT HEIGHT/DIMENSIONS TO TOP OF SEAT	18
C	GRAB BAR HEIGHT (SIDE)	33" MIN. - 36" MAX.
D	TOILET PAPER IN FRONT OF TOILET	CL. 7" MIN. 9" MAX.
E	NAPKIN DISPOSAL IN FRONT OF TOILET	19" MAX.
F	DISPENSER OR MIRROR HEIGHT	40" MAX.
G	LAVATORY/SINK TOP HEIGHT	34" MAX. 27" MIN. AT SINK / 29" MIN. AT LAVATORY APRON
H	LAVATORY/SINK KNEE CLEARANCE	
J	URINAL LIP HEIGHT	17 MAX.
K	URINAL FLUSH HANDLE HEIGHT	44 MAX.
L	DRINKING FOUNTAIN BUBBLER HEIGHT	36 MAX.
M	DRINKING FOUNTAIN KNEE CLEARANCE	27 MIN.

ACCESSIBILITY TYPICAL MOUNTING HEIGHTS
SCALE 1/4" = 1'-0" | 5

DSA STAMP

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SEAL

LICENSED ARCHITECT
AMMAR NAJI SARSAM
C-30902
12/31/2023
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANTS

PROJECT TITLE

HRC TEMP RELOCATABLE CLASSROOM & RESTROOM
9200 VALLEY VIEW ST.
CYPRESS, CA 90630

Cypress College
CYPRESS COMMUNITY COLLEGE
9200 VALLEY VIEW ST.
CYPRESS, CA 90630

ISSUED

#	DATE	DESCRIPTION
	04/06/2023	DSA BACKCHECK SUBMITTAL

PROJECT IDENTIFICATION

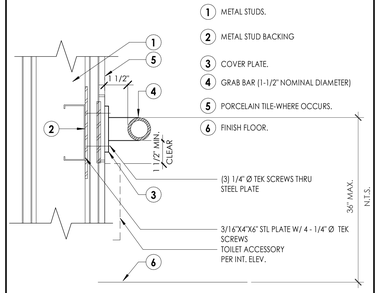
SHEET TITLE

SIGNAGE AND ACCESSIBILITY STANDARDS

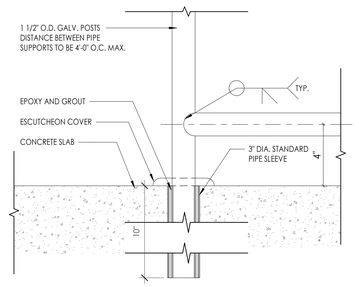
SHEET NUMBER

G3.10D

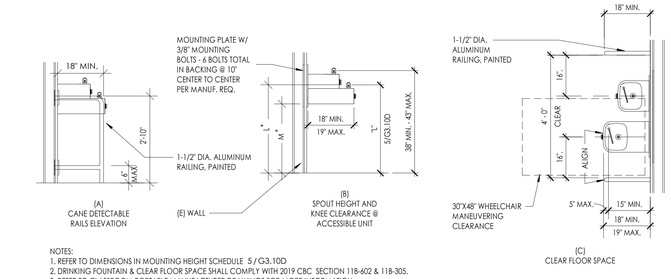
DSA SUBMITTAL



TYP. GRAB BAR SCALE 3" = 1'-0" | 5

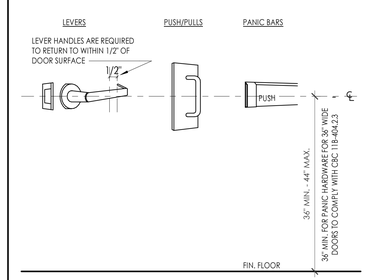


PIPE RAIL DETAIL SCALE 3" = 1'-0" | 4



NOTES:
1. REFER TO DIMENSIONS IN MOUNTING HEIGHT SCHEDULE 5 / G3.10D
2. DRINKING FOUNTAIN & CLEAR FLOOR SPACE SHALL COMPLY WITH 2019 CBC SECTION 118-602 & 118-305.
3. REFER TO CLASSROOM PORTABLE MANUFACTURER DRAWINGS FOR MORE INFORMATION.

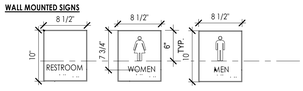
ACCESSIBLE DRINKING FOUNTAIN SCALE 1/2" = 1'-0" | 7



ACCESSIBILITY DOOR HARDWARE MOUNTING HTS. SCALE 3" = 1'-0" | 3

RESTROOM WALL IDENTIFICATION SIGN

WALL MOUNTED SIGNS



COLORS

PLATE BACKGROUND COLOR: BRUSHED ALUMINUM ANODIZED.
EXTRUSION COLOR: SATIN ALUMINUM ANODIZED.
TEXT COLOR: BLACK

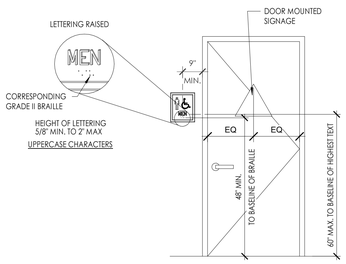
NOTE: REFER TO DETAIL 17 / G3.10D FOR TOP VIEW.

SIZE: AS SHOWN WITH 1" HIGH TEXT, 6" HIGH SEX PICTOGRAMS.
MATERIALS: ALUMINUM EXTRUSION, PHOTOPOLYMER INSERT
GRAPHICS: RAISED (MIN. 1/32") TEXT, ROOM NUMBER TO HAVE CORRESPONDING GRADE 2 BRAILLE.
MOUNTING: AS SHOWN.

DOOR MOUNTED SIGNS

COLORS
COLORS TO MATCH RESTROOM WALL IDENTIFICATION SIGNAGE. BACKGROUND TO BE ALUMINUM COLORED, GRAPHICS TO BE BLACK

SIZE: AS SHOWN .
GRAPHICS: SUBSURFACE PRINTED BLACK GRAPHICS ON ALUMINUM COLORED BACKGROUND.
MATERIAL: 1/8" CLEAR MATTE ACRYLIC LAMINATED ONTO 1/8" OPAQUE ACRYLIC BACKING.
MOUNTING: ON DOOR SURFACE, CENTERED 60" ABOVE FLOOR FINISH, WITH ONE-WAY TAMPERPROOF SCREWS AND SILCONE ADHESIVE.



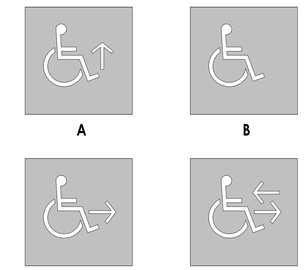
NOTES
1. SIGNAGE REQUIRED PER APPLICABLE CODES LISTED ON COVER SHEET PROVIDED AND INSTALLED BY DISTRICT ON SITE.
2. SIGNAGE REQUIRED PER APPLICABLE CODES LISTED ON COVER SHEET PROVIDED AND INSTALLED BY OTHERS ON SITE.

IDENTIFICATION FOR SANITARY FACILITIES SCALE 1" = 1'-0" | 6

SIZE: 7"x7" SIGN.
MATERIALS: 1/8" THK EXTERIOR GRADE PHOTOPOLYMER SIGN PANEL
GRAPHICS: RAISED (MIN. 1/32") WHITE
MOUNTING: SIGN TO BE MOUNTED 60" A.F.F. TO THE VERTICAL CENTER OF THE SIGN. SIGN MOUNTED WITH 3M HIGH BOND TAPE AND SILICON GLUE. U.N.O.

COLOR:
PLATE BACKGROUND COLOR: CHARCOAL GRAY - COLOR T.B.D.
TEXT/ GRAPHICS: WHITE - COLOR T.B.D.

NOTES:
1. INTERNATIONAL SYMBOL OF ACCESSIBILITY COLOR AND PROPORTIONS SHALL MATCH CBC FIGURE 11B-703.7.2.1
2. SIGNAGE REQUIRED PER APPLICABLE CODES LISTED ON COVER SHEET PROVIDED AND INSTALLED BY DISTRICT ON SITE.
3. SIGNAGE REQUIRED PER APPLICABLE CODES LISTED ON COVER SHEET PROVIDED AND INSTALLED BY OTHERS ON SITE.

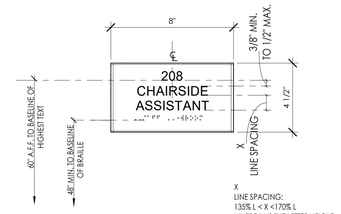


ACCESSIBILITY DIRECTION SIGN SCALE 3" = 1'-0" | 2

SIZE AS SHOWN WITH 5/8" HIGH TEXT
MATERIALS: ALUMINUM EXTRUSION, PHOTOPOLYMER INSERT
GRAPHICS: RAISED (MIN 1/32") TEXT ROOM NUMBER TO HAVE CORRESPONDING GRADE 2 BRAILLE

MOUNTING AS SHOWN AND SIGN TO BE NO CLOSER THAN 4" AND NO FARTHER THAN 12" AWAY FROM THE LATCH SIDE OF THE DOOR. SIGN MOUNTED WITH 3M HIGH BOND TAPE AND SILICON GLUE.

COLOR
PLATE BACKGROUND COLOR: BRUSHED ALUMINUM ANODIZED
EXTRUSION COLOR (LEFT & RIGHT): SATIN ALUMINUM ANODIZED
EXTRUSION COLOR (TOP & BOTTOM): SATIN ALUMINUM ANODIZED
TEXT COLOR: BLACK



NOTES:
1. FOR BRAILLE REQUIREMENTS, REFER TO 2 / G3.10D
2. FOR TOP VIEW, REFER TO DETAIL 17 / G3.10D
3. ROOM NAME/NUMBER WILL BE APPROVED BY DISTRICT PRIOR TO FABRICATION.
4. SIGNAGE REQUIRED PER APPLICABLE CODES LISTED ON COVER SHEET PROVIDED AND INSTALLED BY DISTRICT ON SITE.
5. SIGNAGE REQUIRED PER APPLICABLE CODES LISTED ON COVER SHEET PROVIDED AND INSTALLED BY OTHERS ON SITE.

ROOM IDENTIFICATION SIGNAGE - CLASSROOM SCALE 3" = 1'-0" | 1

DSA STAMP

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SEAL

LICENSED ARCHITECT
AMMAR NAJI SARSAM
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12/31/2023
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANTS

PROJECT TITLE

HRC TEMP RELOCATABLE CLASSROOM & RESTROOM
9200 VALLEY VIEW ST.
CYPRESS, CA 90630

Cypress College
CYPRESS COMMUNITY COLLEGE
9200 VALLEY VIEW ST.
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ISSUED

#	DATE	DESCRIPTION

PROJECT IDENTIFICATION

THE DRAWINGS IN THE SHEET INDEX WERE ORIGINALLY CREATED IN AUTODESK REVIT V. 2018 UNLESS OTHERWISE NOTED.

THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42".

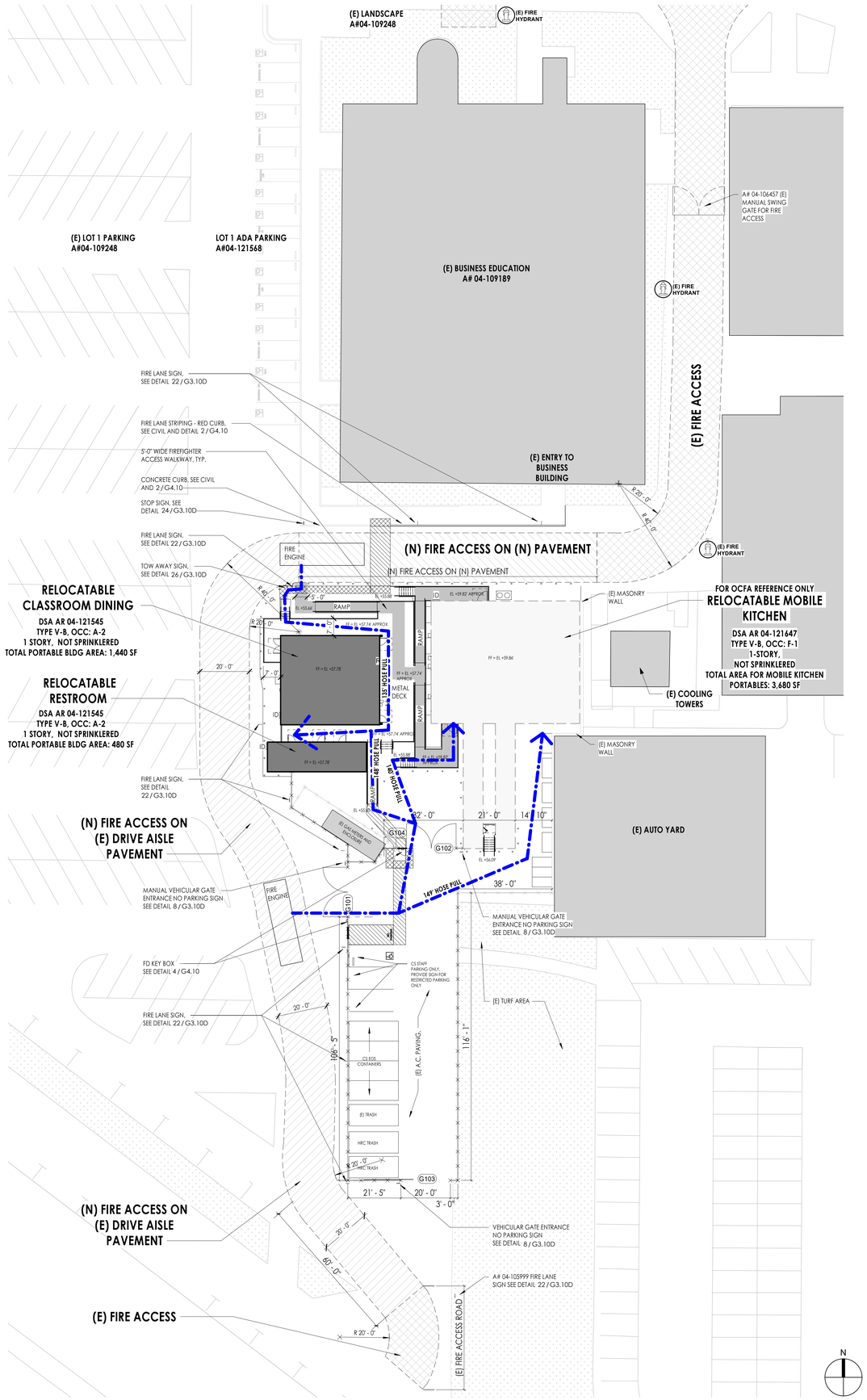
SHEET TITLE

SIGNAGE AND ACCESSIBILITY STANDARDS

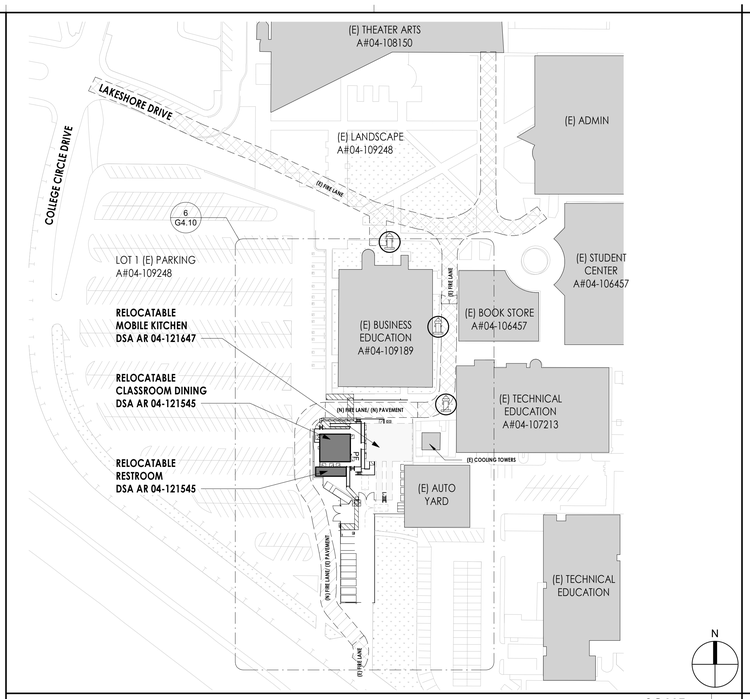
SHEET NUMBER

G3.11D

DSA SUBMITTAL



FIRE DEPARTMENT ACCESS SITE PLAN — SCALE 1" = 20'-0" — 6



FIRE DEPARTMENT ACCESS PLAN - CAMPUS — SCALE 1" = 80'-0" — 5

FIRE DEPARTMENT ACCESS PLAN LEGEND

- RELOCATABLE BUILDING
- EXISTING BUILDING
- A.C. PAVING, SEE CIVIL
- (E) CONCRETE PAVING
- (E) GRAVEL SURFACE
- (E) PLANTING / TURF AREA
- (E) FIRE HYDRANT — EXISTING FIRE HYDRANT
- FIRE TRUCK 150 FEET — FIRE DEPARTMENT HOSE PULL. HOSE PULL MAY NOT EXCEED 150 FEET.
- 5'-0" — MINIMUM 5 FOOT WIDE APPROVED FIREFIGHTER ACCESS WALKWAY
- EXISTING FIRE DEPARTMENT ACCESS ROAD ON EXISTING PAVEMENT
- 20'-0" MIN. — PROPOSED NEW FIRE DEPARTMENT ACCESS ROAD ON EXISTING PAVEMENT. SEE GEOTECHNICAL ENGINEER PAVEMENT STUDY REPORT.
- 20'-0" MIN. — PROPOSED NEW FIRE DEPARTMENT ACCESS ROAD ON NEW PAVEMENT. SEE CIVIL DRAWINGS FOR NEW PAVEMENT. "FIRE LANE NO PARKING" PAINTED ON BOTH SIDES. SEE DETAIL 2 / G4.10
- 20'-0" MIN.
- ID — (N) PREMISES IDENTIFICATION/BUILDING IDENTIFIER (ID) NUMBERS TO CONTRAST WITH BACKGROUND, AND BE 6 INCHES MINIMUM, 6 INCH NUMBERS TO HAVE A ONE-INCH STROKE AS REQUIRED BY LOCAL ORDINANCE. ID NUMBERS: **HRC 14** FOR KITCHEN PORTABLES; **HRC 15** FOR CLASSROOM PORTABLE; **HRC 16** FOR RESTROOM PORTABLE
- (N) BOLLARDS
- (N) DETECTABLE WARNING SURFACE, PER TO CIVIL, TYP.
- (E) FENCE TO REMAIN
- (N) FENCE - CHAIN LINK 8'-0" HEIGHT, SEE A9.11
- (N) MANUAL SWING GATE*, CHAIN LINK 8'-0" HEIGHT, SEE A9.11
- (N) MANUAL SLIDING GATE*, CHAIN LINK 8'-0" HEIGHT, SEE A9.11

* MANUAL GATES TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED

FOR OCFA REFERENCE ONLY

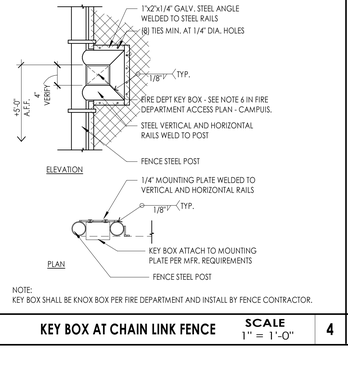
FIRE CODE ANALYSIS:

2019 CFC - TABLE B B105.1:

TYPE OF CONSTRUCTION :	TYPE V-B
OCCUPANCY OF FUTURE MOBILE KITCHEN BUILDING	F-1
OCCUPANCY OF CLASSROOM DINING BUILDING	A-2
FIRE SPRINKLERS:	NO
FIRE FLOW CALCULATION AREA:	5,600 SF
FIRE FLOW REQUIRED BASED ON THE FIRE FLOW CALCULATION AREA:	2,000 GPM
TOTAL FIRE FLOW PROVIDED PER FLOW TEST:	**2,192 GPM AT 20 PSI**

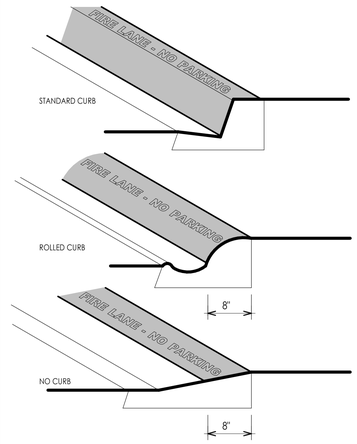
FIRE DEPARTMENT ACCESS NOTES

1. FIRE ACCESS TO CAMPUS IS OFF OF COLLEGE CIRCLE DRIVE. SEE EXISTING CAMPUS FIRE DEPARTMENT ACCESS CAMPUS PLAN FOR EXACT LOCATIONS.
2. FIRE ACCESS WALKWAY IS A MINIMUM 5 FOOT WIDE WALKWAY LEADING FROM THE FIRE DEPARTMENT ACCESS ROAD TO ALL REQUIRED OPENINGS IN THE BUILDING EXTERIOR WALLS FOR FIREFIGHTING AND RESCUE PURPOSES. PER 2019 FIRE CODE SECTION 504.1. PAVED WALKWAY W/ MAX 2% CROSS SLOPE IN ALL DIRECTIONS
3. FIRE DEPARTMENT ACCESS ROADS SHALL BE HARDSCAPE ALL WEATHER ACCESS IN ACCORDANCE WITH THE DEPARTMENT'S ALL WEATHER ACCESS REQUIREMENTS, FIRE CODE 503.2.3.
4. FIRE DEPARTMENT ACCESS ROADS SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOAD OF FIRE APPARATUS WEIGHING 94,000 POUNDS (37.5 TONS) AND SHALL BE SURFACED SO AS TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES. FIRE APPARATUS ROADS HAVING A GRADE OF 10 PERCENT GREATER SHALL HAVE A PAVED OR CONCRETE SURFACE PER FIRE CODE 503.2.3
5. FIRE DEPARTMENT ACCESS ROAD TO HAVE A MINIMUM UNOBSTRUCTED WIDTH OF 20 FEET, EXCLUSIVE OF SHOULDERS, EXCEPT FOR APPROVED SECURITY GATES IN ACCORDANCE WITH SECTION 503.6, AND AN UNOBSTRUCTED VERTICAL CLEARANCE "CLEAR TO SKY" FIRE DEPARTMENT VEHICULAR ACCESS TO WITHIN 150 FEET OF ALL PORTIONS OF THE EXTERIOR WALLS OF THE FIRST STORY OF THE BUILDING. FIRE CODE 503.1 & 503.2.2. "FIRE LANE NO PARKING" PAINTED ON BOTH SIDES. SEE DETAIL 2/G4.10.
6. ALL FIRE HYDRANTS SHALL MEASURE 6" x 4" x 2-1/2", BRASS OR BRONZE, CONFORMING TO AMERICAN WATER WORKS ASSOCIATION STANDARD C503, OR APPROVED EQUAL, AND SHALL BE INSTALLED IN COMPLIANCE WITH THE FIRE CODE 507.5.
7. ALL ON-SITE FIRE HYDRANTS SHALL BE INSTALLED, TESTED AND APPROVED PRIOR TO BUILDING OCCUPANCY. FIRE CODE 901.5.1.
8. PROVIDE AN APPROVED KEY BOX, LISTED IN ACCORDANCE WITH UL 1037 AS REQUIRED BY FIRE CODE 506. THE LOCATION OF EACH KEY BOX SHALL BE DETERMINED BY THE FIRE INSPECTOR.



NOTE:
KEY BOX SHALL BE KNOX BOX PER FIRE DEPARTMENT AND INSTALL BY FENCE CONTRACTOR.

KEY BOX AT CHAIN LINK FENCE — SCALE 1" = 1'-0" — 4



1. FIRE LANE ENTRANCE SIGN(S) SHALL BE PROVIDED PER DETAIL 8 / G3.10D
2. CURBS SHALL BE PAINTED OSHA SAFETY RED.
3. FIRE LANE – NO PARKING" SHALL BE PAINTED ON TOP OF CURB IN 3" WHITE LETTERING AT A SPACING OF 30' ON CENTER OR PORTION THEREOF.

FIRE LANE STRIPING — SCALE 3/4" = 1'-0" — 2

THE SCOPE OF WORK FOR THE SHORT TERM TEMPORARY PORTABLE BUILDINGS INCLUDE THE FOLLOWING:

1. RELOCATE PRE-MANUFACTURED PORTABLE BUILDING UNITS.
2. THIS PROJECT WILL SERVE AS A TEMPORARY LOCATION FOR THE HRC WHILE REPAIR WORK IS DONE AT THE CYPRESS COLLEGE ANAHEIM CAMPUS BUILDING WHERE THE PERMANENT HRC FACILITY IS LOCATED. THE APPROXIMATE LENGTH OF TIME FOR THIS TEMPORARY LOCATION IS 18-36 MONTHS.

SCOPE OF WORK

Fire Master Plans for Public Schools: B-10 — July 1, 2020

ATTACHMENT 1

Public Schools Fire Master Plan Checklist

Scope of project is clearly defined on the plan?	[X] Yes	
Portables are defined as short or long term?	[X] Yes	[ ] N/A (No portables)
Tract or Recorder's parcel map number provided?	[ ] Yes	**No, address provided**
Water availability/fire flow data provided?	[X] Yes	[ ] No
Extent of all fire lanes is shown on the plan?	[X] Yes	
Turning radii are shown or noted on the plan?	[X] Yes	
Are the areas that are out of access identified on plan?	[ ] Yes	[X] N/A
Are all gates, fences, and planters shown?	[X] Yes	
Are vehicle gates identified as manual or electric?	[X] Yes	[ ] N/A (No gates)
Manual vehicle gates have "No Parking" sign noted?	[X] Yes	[ ] N/A (No gates)
Are all hydrants within 250' of the school shown?	[X] Yes	
Building served by each FDCs/PIV noted on plan?	[ ] Yes	[X] N/A (No sprinkler system)
Are hydrant/FDC/DDC/PIVs protected from damage?	[X] Yes	[ ] N/A (Curbs provided)
Red curbs are identified with bold or dashed lines?	[ ] Yes	[X] N/A (Signs provided)
Location of each "Fire Lane—No Parking" sign shown?	[X] Yes	[ ] N/A (Red curbs provided)
Entrance sign provided at each vehicle entrance?	[X] Yes	
Detail of red curbs/"No Parking"/entrance signs shown?	[X] Yes	
Location of main school address shown on plan?	[X] Yes	
Engineer's certification provided for new paving?	[X] Yes	[ ] N/A (No new paving)
Hold harmless letter provided for existing paving?	[ ] Yes	[X] N/A (All paving certified)
DSA forms are included with the submittal?	[X] Yes	

Include the following notes on the plan:

1. All vegetation and other obstructions overhanging a fire access roadway shall be maintained to a clear height of 13'-6".
2. All poles, backboards, and other obstructions on playgrounds near a fire access roadway shall be provided with reflective tape or paint.
3. Knox key switches, Knox locks, or frangible padlocks/chains shall be provided for all gates and barriers in the path of vehicle or firefighter access.
4. The campus is identified with 6" high address numbers easily visible from the public road fronting the property. Individual structures are identified with 6" high address numbers or letters easily visible from the public way or fire access roadway.
5. All-weather access roadways and all fire hydrants shall be in place and operational before bringing combustible building materials or portable units on-site.
6. PIVs, DDCs, FDCs shall be unobstructed and visible from the fire lane or public road. They shall be painted OSHA safety red.

OCFA GUIDELINE B-10 FIRE MASTER PLAN CHECKLIST AND NOTED FOR PUBLIC SCHOOLS

DSA STAMP

HPI architecture
www.hpiarchitecture.com
115 22nd street
Newport Beach, CA 92663
o: 949.675.6442

SEAL

LICENSED ARCHITECT
AMMAR NAJI SARSAM
C-30902
12/31/2023
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANTS

PROJECT TITLE

HRC TEMP RELOCATABLE CLASSROOM & RESTROOM
9200 VALLEY VIEW ST.
CYPRESS, CA 90630

Cypress College
CYPRESS COMMUNITY COLLEGE
9200 VALLEY VIEW ST.
CYPRESS, CA 90630

ISSUED

#	DATE	DESCRIPTION
	04/06/2023	DSA BACKCHECK SUBMITTAL

PROJECT IDENTIFICATION

THE DRAWINGS IN THE SHEET INDEX WERE ORIGINALLY CREATED IN AUTODESK REVIT V. 2018 UNLESS OTHERWISE NOTED.

THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42".

SHEET TITLE

FIRE MASTER PLAN

SHEET NUMBER

G4.10

DSA SUBMITTAL

January 30, 2023
BKF No. 20220528-10

OCFA
(714) 573-6130
Transmitted Via Email

Subject: SR# 537816 Cypress College

To Art Tinoco:

BKF Engineers has reviewed the Geotechnical Engineering Report for Cypress College, Tech ED III Building Renovation, by Geotechnical Solutions, Inc., dated August 23, 2021. And incorporated the geotechnical engineer's recommendations of the asphalt concrete paving for the new fire lane, from the Asphalt Concrete Pavement Section of the report, which meets or exceeds the loading and weather criteria. As stated by the geotechnical engineer, the asphalt concrete pavement section proposed in the new fire lane can support the 96,000 lbs axle weight of the fire truck, as long as a 4"AC over 10" base section is used.

Sincerely,
BKF Engineers

REGISTERED PROFESSIONAL ENGINEER — BRUCE W. KIRBY — No. C 42393 — CIVIL — STATE OF CALIFORNIA

Bruce W. Kirby, PE
Associate

NEW ROADWAY CERTIFICATION LETTER

BKF ENGINEERS
4675 MacArthur Court, Suite 400, Newport Beach, CA 92660 | 949.526.8460

Actual traffic index and traffic load should be determined by either Civil Engineer or Traffic Engineer. The above pavement sections are recommended as a guideline for basic usage of the indicated TI values and may not be sufficient for actual traffic loading. The existing section will be able to withhold a traffic index of 6 which will be able to support a firetruck/94,000 lbs load.

Base material shall conform to requirements for a Class 2 Aggregate Base (AB) or equivalent (such as crushed miscellaneous base - CMB) and should be placed in accordance with the requirements of the Standard Specifications for Public Works Construction (SSPWC, Latest Edition). Asphaltic materials should conform to Section 203-1, "*Paving Asphalt*," and should be placed in accordance with Section 302-5, "*Asphalt Concrete Pavement*," of the SSPWC.

4.0 CLOSURE

Our findings were prepared in accordance with generally accepted professional engineering practices in this area of Southern California.

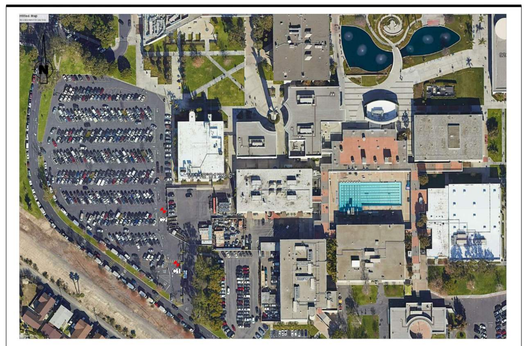
We appreciate the opportunity to be of service to Cypress College. If you have any questions or require additional information, please contact the undersigned at (626) 930-1275.

CONVERSE CONSULTANTS

Sachini Madanayake, PhD
Senior Staff Professional

Siva K. Sivathasan, PhD, PE, GE, DGE, QSD, F. ASCE
Senior Vice President / Principal Engineer

REGISTERED PROFESSIONAL ENGINEER — SIVATHASAN — No. 2708 — Exp. 6-30-24 — GEOTECHNICAL — STATE OF CALIFORNIA



Coring Location Map

Converse Consultants | Cypress College, 9200 Valley View Street, Cypress, California 90630 | Project No. 22-31-318-01 | Figure No. 1

PAVEMENT STUDY LETTER REPORT FOR PROPOSED NEW FIRE LANE

Converse Consultants
Geotechnical Engineering, Environmental & Groundwater Science, Inspection & Testing Services

December 13, 2022

Mr. Ammar Sarsam
Principal
HPI Architecture
115 22nd Street
Newport Beach, California 9263

Subject: **PAVEMENT STUDY LETTER REPORT**
Cypress College
9200 Valley View Street, Cypress, California 90630
Converse Project No. 22-31-318-01

Dear Mr. Sarsam:

In accordance with your request and approval, Converse Consultants (Converse) has prepared this Pavement Study Letter Report for the subject project.

1.0 INTRODUCTION

Cypress College is looking to convert an existing parking lot driveway to a fire lane accommodating 94,000 lbs traffic load. The purpose of this study was to determine asphalt concrete pavement and base thicknesses of the existing pavement. Project and coring locations are shown in Figure No. 1, *Coring Location Map*.

2.0 FIELD EXPLORATION

Converse conducted two (2) cores on December 1st, 2022. The cores were from the proposed new fire lane section. The locations of the cores can be seen in Figure No. 1, *Coring Location Map*.

The cores were advanced using a 6-inch asphalt coring machine. Subgrade soils up to a depth of 5 feet were collected using a 4-inch hand auger. Once completed, the holes were backfilled with soil cuttings, and pea gravel. The cores were patched with cold patch asphalt and tamped.

Pavement cores were collected at each location along with representative subgrade soil samples. The results of our pavement study can be seen in the following table:

Table No. 1, Existing Pavement Sections

Date	Coring Number	Core Type	Core Thickness (inches)	Fabric	Fabric Depth (inch)	Base Thickness (inch)	Soil Classification
12/01/22	C-1	Asphalt	4.5	Yes	2.5	3.5	Silty Sand (SM)
	C-2	Asphalt	4.5	Yes	2.5	3.5	Silty Sand (SM)

In addition, a Poorly Graded Sand (SP) layer averaging 8-10 inches was encountered below the Base layer. Current pavement conditions and the cores are shown in Photographs No. A-1, *Pavement Coring*.

R-Value

One (1) representative bulk sample was tested for resistance value (R-value) in accordance with California Test Method CT301. This test is designed to provide a relative measure of soil strength for use in pavement design. The test result is presented in the following table.

Table No. 2, Summary of R-Value Test Result

Coring No.	Soil Description	Measured R-Value
C-1	Silty Sand (SM)	68

3.0 FLEXIBLE PAVEMENT DESIGN

The flexible pavement structural section design recommendations were performed in accordance with the method contained in the *CALTRANS Highway Design Manual*, Chapter 630 without the factor of safety. Due to various earth materials encountered at the site, flexible pavement structural section recommendations are prepared for subgrade soils with the design R-value of 50. No specific traffic study was performed to determine the Traffic Index (TI) for the proposed project; therefore, a wide range of TI values was evaluated. The structural sections assume that the underlying fill soils are properly compacted and/or mitigated to provide a firm and unyielding soil subgrade. The recommended flexible pavement structural sections for various TI conditions are presented in the following table:

Table No. 3, Flexible Pavement Structural Sections

Design R-value	Design TI	Asphalt Concrete (AC) Over Aggregate Base (AB) Structural Sections		Full AC Structural Section
		AC (inches)	AB (inches)	AC (inches)
50	4	3.0*	3.0*	3.0
	5	3.0	3.0*	4.0
	6	4.0	3.0*	5.0
	7	4.0	4.5	6.5
	8	5.0	5.0	7.5
	9	6.0	5.5	8.5
	10	7.0	6.0	9.5
	11	7.0	8.0	10.5
	12	8.0	8.5	11.5

*Minimum required thickness

PAVEMENT CORING

Converse Consultants | Cypress College Pavement Coring for Fire Lane | Project No. 22-31-318-01 | Photographs No. A-1

WATER AVAILABILITY/FIRE FLOW TEST SUMMARY

Orange County Fire Protection

Flow Test Summary

Project Name:	Cypress College
Project Address:	9200 Valley View St, Cypress, CA 90630
Date of Flow Test:	2023-01-19
Time of Flow Test:	7:30 am
Data Reliable Until:	2023-07-19
Conducted By:	Greg Coats and Tim Woods
Witnessed By:	Craig Lee, Director of Campus Safety
City Forces Contacted:	N/A
Note	Flow Hydrant: #7; Gauge Hydrant #6

Raw Flow Test Data

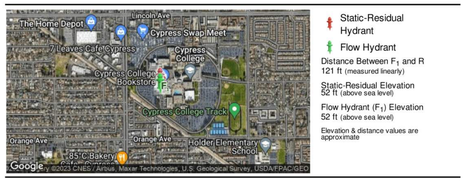
Static Pressure:	45.0 PSI
Residual Pressure:	40.0 PSI
Flowing GPM:	919
GPM @ 20 PSI:	2,192

Data with a 10 % Safety Factor

Static Pressure:	40.5 PSI
Residual Pressure:	35.5 PSI
Flowing GPM:	919
GPM @ 20 PSI:	1,970

Hydrant F_1

Pitot Pressure (1):	30	PSI
Coefficient of Discharge (1):	0.9	
Hydrant Orifice Diameter (1):	2.5	inches



ORANGE COUNTY FIRE PROTECTION
137 W BRISTOL LN, ORANGE, CA 92865 www.ocfire.com
Contractors License #326604, C-16
www.flowtestsummary.com

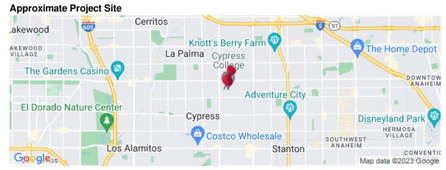
Orange County Fire Protection

Flow Test Summary

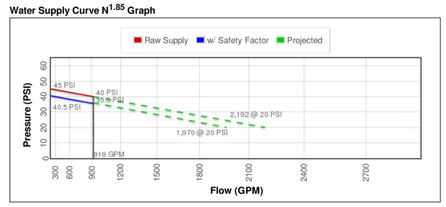
Static-Residual Hydrant

Flow Hydrant (only hydrant F1 shown for clarity)

Approximate Project Site



Water Supply Curve $N^{1.85}$ Graph



ORANGE COUNTY FIRE PROTECTION
137 W BRISTOL LN, ORANGE, CA 92865 www.ocfire.com
Contractors License #326604, C-16
www.flowtestsummary.com

DSA FORM 810

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:	NORTH ORANGE COMMUNITY COLLEGE DISTRICT
Project Name/School:	HOTEL, RESTAURANT, CULINARY ARTS (HRC) TEMPORARY PORTABLE BUILDINGS /CYPRESS COLLEGE
Project Address:	9200 VALLEY VIEW STREET, CYPRESS, CA 90630

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

DSA STAMP

HPI architecture
www.hpiarchitecture.com
115 22nd street
Newport Beach, CA 92663
o: 949.675.6442

SEAL

LICENSED ARCHITECT — AMMAR NAJI SARSAM — C-30902 — 12/31/2023 — RENEWAL DATE — STATE OF CALIFORNIA

CONSULTANTS

PROJECT TITLE

HRC TEMP RELOCATABLE CLASSROOM & RESTROOM
9200 VALLEY VIEW ST.
CYPRESS, CA 90630

Cypress College
CYPRESS COMMUNITY COLLEGE
9200 VALLEY VIEW ST.
CYPRESS, CA 90630

ISSUED

#	DATE	DESCRIPTION
	04/06/2023	DSA BACKCHECK SUBMITTAL

PROJECT IDENTIFICATION

THE DRAWINGS IN THE SHEET INDEX WERE ORIGINALLY CREATED IN AUTODESK REVIT V. 2018 UNLESS OTHERWISE NOTED.

THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42".

SHEET TITLE

FIRE MASTER PLAN

SHEET NUMBER

G4.11

DSA SUBMITTAL

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations** (BFEs) and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations tables in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations tables should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was Universal Transverse Mercator (UTM) Zone 11. The **horizontal datum** was NAD 83, GRS80 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum**. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at http://www.ngs.noaa.gov or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, N/NGS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at **(301) 713-3242**, or visit its website at http://www.ngs.noaa.gov.

Base map information shown on this FIRM was derived from the National Agriculture Imagery Program, dated 2005.

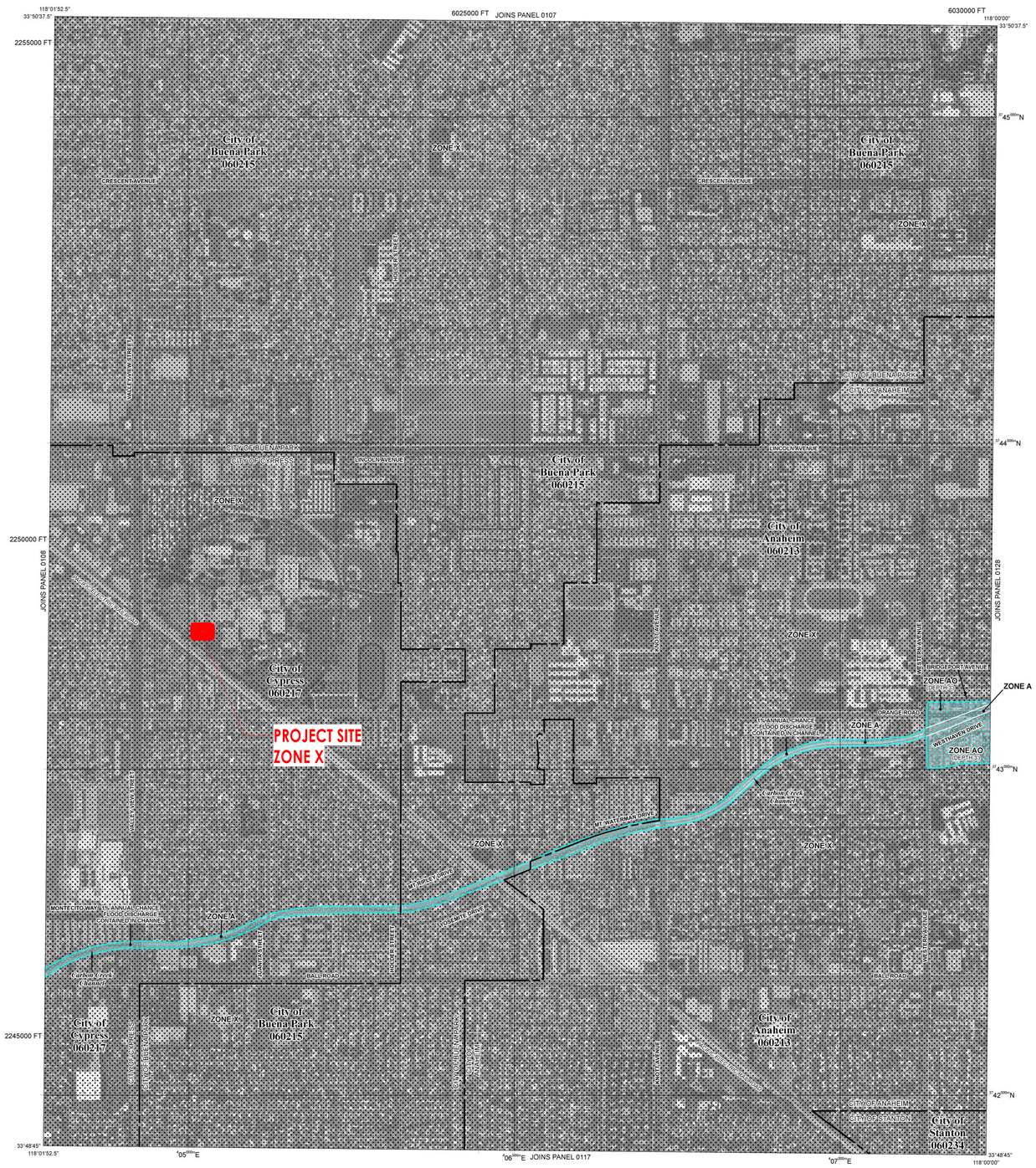
This map reflects more detailed and up-to-date **stream channel configurations** than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study Report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

Contact the **FEMA Map Service Center** at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax at 1-800-358-9620 and its website at http://msc.fema.gov.

If you have **questions about this map** or questions concerning the National Flood Insurance Program in general, please call **1-877-FEMA MAP** (1-877-336-2627) or visit the FEMA website at http://www.fema.gov.



LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A	No Base Flood Elevations determined.
ZONE AE	Base Flood Elevations determined.
ZONE AH	Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
ZONE AO	Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
ZONE AR	Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
ZONE A99	Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
ZONE V	Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
ZONE VE	Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X	Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X	Areas determined to be outside the 0.2% annual chance floodplain.
ZONE D	Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

	1% annual chance floodplain boundary
	0.2% annual chance floodplain boundary
	Floodway boundary
	Zone D boundary
	CBRS and OPA boundary
	Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
513	Base Flood Elevation line and value; elevation in feet*
(EL. 987)	Base Flood Elevation value where uniform within zone; elevation in feet*

* Referenced to the North American Vertical Datum of 1988

A A / B B	Cross section line / Transect line
87°07'45", 32°22'30"	Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere
3776000mN	1000-meter Universal Transverse Mercator grid values, zone NAD 1983 UTM Zone 11N
600000 FT	5000-foot grid ticks: California State Plane coordinate system, zone VI (FIPSZONE 0406), Lambert Conformal Conic projection
DX5510 ×	Bench mark (see explanation in Notes to Users section of this FIRM panel)
M1.5	River Mile

MAP REPOSITORY
Refer to listing of Map Repositories on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
September 15, 1989

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL
February 5, 1992 - November 3, 1993 - January 3, 1997 - February 18, 2004 - December 3, 2009 : for description of revisions, see Notice to Users page in the Flood Insurance Study report.

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 500'

250 0 500 1000 FEET

150 0 150 300 METERS

PANEL 0109J

FIRM
FLOOD INSURANCE RATE MAP

ORANGE COUNTY, CALIFORNIA
AND INCORPORATED AREAS

PANEL 109 OF 539

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
ANAHEIM, CITY OF	060213	0109	J
BUENA PARK, CITY OF	060215	0109	J
CYPRESS, CITY OF	060217	0109	J
STANTON, CITY OF	060234	0109	J

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
06059C0109J

MAP REVISED
DECEMBER 3, 2009

Federal Emergency Management Agency

NATIONAL FLOOD INSURANCE PROGRAM

DSA STAMP

HPI architecture
www.hpiarchitecture.com
115 22nd street
Newport Beach, CA 92663
o: 949.675.6442

SEAL

LICENSED ARCHITECT
AMMAR NAJI SARSAM
C-30902
12/31/2023
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANTS

PROJECT TITLE

HRC TEMP RELOCATABLE CLASSROOM & RESTROOM
9200 VALLEY VIEW ST.
CYPRESS, CA 90630

Cypress College

CYPRESS COMMUNITY COLLEGE
9200 VALLEY VIEW ST.
CYPRESS, CA 90630

ISSUED

#	DATE	DESCRIPTION
	04/06/2023	DSA BACKCHECK SUBMITTAL

PROJECT IDENTIFICATION

THE DRAWINGS IN THE SHEET INDEX WERE ORIGINALLY CREATED IN AUTODESK REVIT V. 2018 UNLESS OTHERWISE NOTED.

THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42".

SHEET TITLE

FEMA FLOOD MAP

SHEET NUMBER

G5.10

DSA SUBMITTAL

INDEX OF SPECIFICATION SECTIONS

SECTION 055213 - PIPE AND TUBE RAILINGS

1.1 SUMMARY
A. Section Includes: Steel railings.
1.2 METALS, GENERAL
A. Metal Surfaces, General: Provide materials with smooth surfaces, without seam marks, roller marks, rolled trade names, stains, discolorations, or blemishes.
B. Brackets, Flanges, and Anchors: Cast or formed metal of same type of material and finish as supported rails unless otherwise indicated.
1.3 STEEL RAILINGS
A. Recycled Content of Steel Products: Postconsumer recycled content plus one-half of preconsumer recycled content not less than 25 percent.
B. Pipe: ASTM A53/A53M, Type F or Type S, Grade A, Standard Weight (Schedule 40), unless another grade and weight are required by structural loads. Provide galvanized finish for exterior installations and where indicated.
C. Plates, Shapes, and Bars: ASTM A36/A36M.
1.4 FASTENERS
A. Fastener Materials:
1. Hot-Dip Galvanized Railing Components: Type 304 stainless steel or hot-dip zinc-coated steel fasteners complying with ASTM A153/A153M or ASTM F2329/F2329M for zinc coating.
2. Finish exposed fasteners to match appearance, including color and texture, of railings.
B. Fasteners for Anchoring Railings to Other Construction: Select fasteners of type, grade, and class required to produce connections suitable for anchoring railings to other types of construction and capable of withstanding design loads.
C. Post-Installed Anchors: Fastener systems with working capacity greater than or equal to the design load, according to an evaluation report acceptable to authorities having jurisdiction, based on ICC-ES AC193. Material for Exterior Locations and Where Stainless Steel Is Indicated: Alloy Group 1 stainless steel bolts, ASTM F593, and nuts, ASTM F594.
1.5 MISCELLANEOUS MATERIALS
A. Welding Rods and Bare Electrodes: Select in accordance with AWS specifications for metal alloy welded.
B. Etching Cleaner for Galvanized Metal: Complying with MPI#25.

C. Galvanizing Repair Paint: High-zinc-dust-content paint, complying with SSPC-Paint 20 and compatible with paints specified to be used over it.
D. Shop Primers: Provide primers that comply with Section 099113 "Exterior Painting"."
E. Shop Primer for Galvanized Steel: Primer formulated for exterior use over zinc-coated metal and compatible with finish paint systems indicated.
F. Intermediate Coats and Topcoats: Provide products that comply with Section 099113 "Exterior Painting."
G. Bituminous Paint: Cold-applied asphalt emulsion, complying with ASTM D1187/D1187M.
H. Nonshrink, Nonmetallic Grout: Factory-packaged, nonstaining, noncorrosive, nongaseous grout, complying with ASTM C1107/C1107M. Provide grout specifically recommended by manufacturer for interior and exterior applications.
I. Anchoring Cement: Factory-packaged, nonshrink, nonstaining, hydraulic-controlled expansion cement formulation for mixing with water at Project site to create pourable anchoring, patching, and grouting compound. Water-Resistant Product: At exterior locations, provide formulation that is resistant to erosion from water exposure without needing protection by a sealer or waterproof coating and that is recommended by manufacturer for exterior use.
1.6 FABRICATION
A. General: Fabricate railings to comply with requirements indicated for design, dimensions, member sizes and spacing, details, finish, and anchorage, but not less than that required to support structural loads.
B. Cut, drill, and punch metals cleanly and accurately.
1. Remove burrs and ease edges to a radius of approximately 1/32 inch unless otherwise indicated.
2. Remove sharp or rough areas on exposed surfaces.
C. Form work true to line and level with accurate angles and surfaces.
D. Fabricate connections that are exposed to weather in a manner that excludes water.
1. Provide weep holes where water may accumulate.
2. Locate weep holes in inconspicuous locations.
E. Cut, reinforce, drill, and tap as indicated to receive finish hardware, screws, and similar items.
F. Connections: Fabricate railings with welded connections unless otherwise indicated.
G. Welded Connections: Cope components at connections to provide close fit, or use fittings designed for this purpose. Weld all around at connections, including at fittings. At exposed connections, finish exposed welds to comply with NOMMA's "Voluntary Joint Finish Standards" for Finish #2 welds; good appearance, completely sanded joint, some undercutting and pinholes okay
H. Bend members in jigs to produce uniform curvature for each configuration required. Maintain cross section of member throughout entire bend without buckling, twisting, cracking, or otherwise deforming exposed surfaces of components.
I. Close exposed ends of hollow railing members with prefabricated cap and end fittings of same metal and finish as railings.
J. Provide wall returns at ends of wall-mounted handrails unless otherwise indicated. Close ends of returns unless clearance between end of rail and wall is 1/4 inch or less.
K. Brackets, Flanges, Fittings, and Anchors: Provide wall brackets, flanges, miscellaneous fittings, and anchors to interconnect railing members to other work unless otherwise indicated.
L. For railing posts set in concrete, provide steel sleeves not less than 6 inches long with inside dimensions not less than 1/2 inch greater than outside dimensions of post, with metal plate forming bottom closure.
M. Toe Boards: Where indicated, provide toe boards at railings around openings and at edge of open-sided floors and platforms. Fabricate to dimensions and details indicated.
1.7 STEEL AND IRON FINISHES
A. Galvanized Railings:
1. Hot-dip galvanize steel railings, including hardware, after fabrication.
2. Comply with ASTM A123/A123M for hot-dip galvanized railings.
B. For galvanized railings, provide hot-dip galvanized fittings, brackets, fasteners, sleeves, and other ferrous components.
C. Preparing Galvanized Railings for Shop Priming: After galvanizing, thoroughly clean railings of grease, dirt, oil, flux, and other foreign matter, and treat with etching cleaner and as follows. Comply with SSPC-SP 16.
1.8 INSTALLATION, GENERAL
A. Perform cutting, drilling, and fitting required for installing railings.
1. Install railings level, plumb, square, true to line; without distortion, warp, or rack.
2. Set railings accurately in location, alignment, and elevation; measured from established lines and levels.
3. Align rails so variations from level for horizontal members and variations from parallel with rake of steps and ramps for sloping members do not exceed 1/4 inch in 12 feet.

B. Control of Corrosion: Prevent galvanic action and other forms of corrosion by insulating metals and other materials from direct contact with incompatible materials.
9 RAILING CONNECTIONS
A. Welded Connections: Use fully welded joints for permanently connecting railing components. Comply with requirements for welded connections in "Fabrication" Article, whether welding is performed in the shop or in the field.
B. Expansion Joints: Install expansion joints at locations indicated but not farther apart than required to accommodate thermal movement. Provide slip-joint internal sleeve, extending 2 inches beyond joint on either side; fasten internal sleeve securely to one side; and locate joint within 6 inches of post.
10 ANCHORING POSTS
A. Use steel pipe sleeves preset and anchored into concrete for installing posts. After posts are inserted into sleeves, fill annular space between post and sleeve with nonshrink, nonmetallic grout or anchoring cement, mixed and placed to comply with anchoring material manufacturer's written instructions.
11 CLEANING
A. Galvanized Surfaces: Clean field welds, bolted connections, and abraded areas, and repair galvanizing to comply with ASTM A780/A780M.
12 PROTECTION
A. Protect finishes of railings from damage during construction period with temporary protective coverings approved by railing manufacturer. Remove protective coverings at time of Substantial Completion.
B. Restore finishes damaged during installation and construction period, so no evidence remains of correction work. Return items that cannot be refinished in the field to the shop; make required alterations and refinish entire unit, or provide new units.

ND OF SECTION

ECTION 07 92 00 - JOINT SEALANTS

1 SUMMARY
A. Section Includes:
1. Silicone joint sealants.
2. Urethane joint sealants.
3. Mildew-resistant joint sealants.
4. Butyl joint sealants.
5. Latex joint sealants.
2 ACTION SUBMITTALS
A. Product Data: For each joint-sealant product.
B. Samples for Initial Selection: Manufacturer's color charts consisting of strips of cured sealants showing the full range of colors available for each product exposed to view.
3 JOINT SEALANTS, GENERAL
A. Compatibility: Provide joint sealants, backings, and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by joint-sealant manufacturer, based on testing and field experience.
B. Colors of Exposed Joint Sealants: As selected by Architect from manufacturer's full range.
4 SILICONE JOINT SEALANTS
A. Silicone, S, NS, 100/50, T, NT: Single-component, nonsag, plus 100 percent and minus 50 percent movement capability, traffic- and nontraffic-use, neutral-curing silicone joint sealant; ASTM C920, Type S, Grade NS, Class 100/50, Uses T and NT.
5 URETHANE JOINT SEALANTS
A. Urethane, S, NS, 100/50, T, NT: Single-component, nonsag, plus 100 percent and minus 50 percent movement capability, traffic- and nontraffic-use, urethane joint sealant; ASTM C920, Type S, Grade NS, Class 100/50, Uses T and NT.
6 MILDEW-RESISTANT JOINT SEALANTS
A. Mildew-Resistant Joint Sealants: Formulated for prolonged exposure to humidity with fungicide to prevent mold and mildew growth.
B. Silicone, Mildew Resistant, Acid Curing, S, NS, 25, NT: Mildew-resistant, single-component, nonsag, plus 25 percent and minus 25 percent movement capability, nontraffic-use, acid-curing silicone joint sealant; ASTM C920, Type S, Grade NS, Class 25, Use NT.
7 BUTYL JOINT SEALANTS
A. Butyl-Rubber-Based Joint Sealants: ASTM C1311.

1.8 LATEX JOINT SEALANTS
A. Acrylic Latex: Acrylic latex or siliconized acrylic latex, ASTM C834, Type OP, Grade NF.
1.9 JOINT-SEALANT BACKING
A. Sealant Backing Material, General: Nonstaining; compatible with joint substrates, sealants, primers, and oth joint fillers; and approved for applications indicated by sealant manufacturer based on field experience a laboratory testing.
1.10 INSTALLATION OF JOINT SEALANTS
A. General: Comply with joint-sealant manufacturer's written installation instructions for products and applicatio indicated, unless more stringent requirements apply.
B. Sealant Installation Standard: Comply with recommendations in ASTM C1193 for use of joint sealants applicable to materials, applications, and conditions indicated. Color: Match adjacent surfaces.

END OF SECTION

SECTION 08 41 13 - ALUMINUM-FRAMED STOREFRONT WINDOW

1.1 SUMMARY
A. Section Includes: Aluminum-framed storefront systems.
1.2 ACTION SUBMITTALS
A. Product Data: For each type of product. Include construction details, material descriptions, dimensions individual components and profiles, and finishes.
B. Shop Drawings: For aluminum-framed storefronts. Include plans, elevations, sections, full-size details, a attachments to other work.
1.3 STOREFRONT SYSTEMS
A. Basis of Design and Permit Approval: Subject to compliance with requirements, provide Arcadia, Inc; Produ AR450 storefront system, or equal.
1.4 GLAZING
A. Glazing: Comply with Section 08 80 00 "Glazing."
B. Glazing Gaskets: Manufacturer's standard sealed-corner pressure-glazing system of black, resilient elastome glazing gaskets, setting blocks, and shims or spacers.
1.5 FABRICATION
A. Weld in concealed locations to greatest extent possible to minimize distortion or discoloration of finish. Remo weld spatter and welding oxides from exposed surfaces by descaling or grinding.
B. Storefront Framing: Fabricate components for assembly using shear-block system.
1.6 ALUMINUM FINISHES
A. Clear Anodic Finish: AAMA 611, AA-M12C22A31, Class II, 0.010 mm or thicker. Color: Silver
1.7 INSTALLATION, GENERAL
A. Comply with manufacturer's written instructions.
B. Fit joints to produce hairline joints free of burrs and distortion.
C. Rigidly secure nonmovement joints.
D. Metal Protection:
1. Where aluminum is in contact with dissimilar metals, protect against galvanic action by painting conta surfaces with materials recommended by manufacturer for this purpose or by installing nonconducti spacers.
2. Where aluminum is in contact with concrete or masonry, protect against corrosion by painting conta surfaces with bituminous paint.
1.8 INSTALLATION OF GLAZING
A. Install glazing as specified in Section 08 80 00 "Glazing."
1.9 ERECTION TOLERANCES
A. Install aluminum-framed entrances and storefronts to comply with the following maximum tolerances:
1. Plumb: 1/8 inch in 10 feet; 1/4 inch in 40 feet.
2. Level: 1/8 inch in 20 feet; 1/4 inch in 40 feet.
3. Alignment:
a. Where surfaces abut in line or are separated by reveal or protruding element up to 1/2 inch wic limit offset from true alignment to 1/16 inch.
b. Where surfaces are separated by reveal or protruding element from 1/2 to 1 inch wide, limit offs from true alignment to 1/8 inch.
c. Where surfaces are separated by reveal or protruding element of 1 inch wide or more, limit offs from true alignment to 1/4 inch.

END OF SECTION

SECTION 08 80 00 - GLAZING

1.1 SUMMARY
A. Section Includes:
1. Glass products.
2. Glazing sealants.
3. Glazing tapes.
4. Miscellaneous glazing materials.
1.2 ACTION SUBMITTALS
A. Product Data: For each type of product.
1.3 PERFORMANCE REQUIREMENTS
A. General: Installed glazing systems shall withstand normal thermal movement and impact loads (where applicable) without failure, including loss or glass breakage attributable to defective manufacture, fabrication, or installation; failure of sealants or gaskets to remain watertight and airtight; deterioration of glazing materials; or other defects in construction.
B. Safety Glazing: Where safety glazing is indicated, provide glazing that complies with 16 CFR 1201, Category II.
1.4 GLASS PRODUCTS, GENERAL
A. Safety Glazing Labeling: Where safety glazing is indicated, permanently mark glazing with certification label of the SGCC or another certification agency acceptable to authorities having jurisdiction or manufacturer. Label shall indicate manufacturer's name, type of glass, thickness, and safety glazing standard with which glass complies.
1.5 GLASS PRODUCTS
A. Clear Annealed Float Glass: ASTM C1036, Type I, Class 1 (clear), Quality-Q3. ¼ inch thick
B. Fully Tempered Float Glass: ASTM C1048, Kind FT (fully tempered), Condition A (uncoated) ¼ inch thick unless otherwise indicated, Type I, Class 1 (clear) or Class 2 (tinted) as indicated, Quality-Q3.
C. Heat-Strengthened Float Glass: ASTM C1048, Kind HS (heat strengthened), Type I, Condition A (uncoated) unless otherwise indicated, Type I, Class 1 (clear) or Class 2 (tinted) as indicated, Quality-Q3.
1.6 GLAZING SEALANTS
A. Neutral-Curing Silicone Glazing Sealant, Class 100/50: Complying with ASTM C920, Type S, Grade NS, Use NT.
1.7 GLAZING TAPES
A. Back-Bedding Mastic Glazing Tapes: Preformed, butyl-based, 100 percent solids elastomeric tape; nonstaining and nonmigrating in contact with nonporous surfaces; with or without spacer rod as recommended in writing by tape and glass manufacturers for application indicated; and complying with ASTM C1281 and AAMA 800:
1.8 MISCELLANEOUS GLAZING MATERIALS
A. General: Provide products of material, size, and shape complying with referenced glazing standard, recommended in writing by manufacturers of glass and other glazing materials for application indicated, and with a proven record of compatibility with surfaces contacted in installation.
1.9 FABRICATION OF GLAZING UNITS
A. Fabricate glazing units in sizes required to fit openings indicated for Project, with edge and face clearances, edge and surface conditions, and bite complying with written instructions of product manufacturer and referenced glazing publications, to comply with system performance requirements.
1.10 GLAZING, GENERAL
A. Comply with combined written instructions of manufacturers of glass, sealants, gaskets, and other glazing materials, unless more stringent requirements are indicated, including those in referenced glazing publications.
B. Install setting blocks in sill rabbets, sized and located to comply with referenced glazing publications, unless otherwise required by glass manufacturer. Set blocks in thin course of compatible sealant suitable for heel bead.
1.11 TAPE GLAZING
A. Position tapes on fixed stops so that, when compressed by glass, their exposed edges are flush with or protrude slightly above sightline of stops.
B. Install tapes continuously, but not necessarily in one continuous length. Do not stretch tapes to make them fit opening.

END OF SECTION

SECTION 09 29 00 - GYPSUM BOARD

1.1 SUMMARY
A. Section Includes: Interior gypsum board.
1.2 ACTION SUBMITTALS
A. Product Data: For each type of product.
1.3 PERFORMANCE REQUIREMENTS
A. Fire-Resistance-Rated Assemblies: For fire-resistance-rated assemblies, provide materials and constructic identical to those tested in assembly indicated according to ASTM E119 by an independent testing agency.
1.4 INTERIOR GYPSUM BOARD
A. Gypsum Board, Type X: ASTM C1396/C1396M.
1. Thickness: 5/8 inch.
2. Long Edges: Tapered and featured (rounded or beveled) for prefilling.
B. Mold-Resistant Gypsum Board: ASTM C1396/C1396M. With moisture- and mold-resistant core and pap surfaces.
1. Core: 5/8 inch, Type X.
2. Long Edges: Tapered.
3. Mold Resistance: ASTM D3273, score of 10 as rated according to ASTM D3274.
1.5 TRIM ACCESSORIES
A. Interior Trim: ASTM C1047. Material: Galvanized-steel sheet.
1.6 JOINT TREATMENT MATERIALS
A. General: Comply with ASTM C475/C475M.
B. Joint Tape: Interior Gypsum Board: Paper.
C. Joint Compound for Interior Gypsum Board: For each coat, use formulation that is compatible with oth compounds applied on previous or for successive coats.
1. Prefilling: At open joints, rounded or beveled panel edges, and damaged surface areas, use setting-typ taping compound.
2. Embedding and First Coat: For embedding tape and first coat on joints, fasteners, and trim flanges, us drying-type, all-purpose compound. Use setting-type compound for installing paper-faced metal tri accessories.
3. Fill Coat: For second coat, use drying-type, all-purpose compound.
4. Finish Coat: For third coat, use drying-type, all-purpose compound.
5. Skim Coat: For final coat of Level 5 finish, use drying-type, all-purpose compound or high-build interi coating product designed for application by airless sprayer and to be used instead of skim coat produce Level 5 finish.
1.7 AUXILIARY MATERIALS
A. General: Provide auxiliary materials that comply with referenced installation standards and manufacturer written instructions.
B. Sound-Attenuation Blankets: ASTM C665, Type I (blankets without membrane facing) produced by combinir thermosetting resins with mineral fibers manufactured from glass, slag wool, or rock wool. Fire-Resistanc Rated Assemblies: Comply with mineral-fiber requirements of assembly.
C. Acoustical Sealant: Manufacturer's standard non-sag, paintable, non-staining latex sealant complying wi ASTM C834. Product effectively reduces airborne sound transmission through perimeter joints and openings building construction as demonstrated by testing representative assemblies according to ASTM E90.
1.8 APPLYING AND FINISHING PANELS, GENERAL
A. Comply with ASTM C840.
B. Install panels with face side out. Butt panels together for a light contact at edges and ends with not more tha 1/16 inch of open space between panels. Do not force into place.
C. Locate edge and end joints over supports, except in ceiling applications where intermediate supports or gypsu board back-blocking is provided behind end joints. Do not place tapered edges against cut edges or end Stagger vertical joints on opposite sides of partitions. Do not make joints other than control joints at corners framed openings.
D. Form control and expansion joints with space between edges of adjoining gypsum panels.
E. Cover both faces of support framing with gypsum panels in concealed spaces (above ceilings, etc.), except chases braced internally.
1.9 INSTALLING TRIM ACCESSORIES
A. General: For trim with back flanges intended for fasteners, attach to framing with same fasteners used f panels. Otherwise, attach trim according to manufacturer's written instructions.
B. Control Joints: Install control joints according to ASTM C840 and in specific locations approved by Architect f visual effect.

1.10 FINISHING GYPSUM BOARD
A. General: Treat gypsum board joints, interior angles, edge trim, control joints, penetrations, fastener heads, surface defects, and elsewhere as required to prepare gypsum board surfaces for decoration. Promptly remove residual joint compound from adjacent surfaces.
B. Apply joint tape over gypsum board joints, except for trim products specifically indicated as not intended to receive tape.
C. Gypsum Board Finish Levels: Finish panels to levels indicated below and according to ASTM C840:
1. Level 1: Ceiling plenum areas, concealed areas, and where indicated.
2. Level 3: Where indicated on Drawings.
3. Level 4: At panel surfaces that will be exposed to view unless otherwise indicated. Primer and its application to surfaces are specified in Section 09 91 23 "Interior Painting."
4. Level 5: Where indicated on Drawings. Primer and its application to surfaces are specified in Section 09 91 23 "Interior Painting."

END OF SECTION

SECTION 09 51 13 - ACOUSTICAL PANEL CEILINGS

1.1 SUMMARY
A. Section includes replacement of acoustical panels in existing suspension systems for interior ceilings.
1.2 ACTION SUBMITTALS
A. Product Data: For each type of product.
B. Samples: For each exposed product and for each color and texture specified, 6 inches in size.
1.3 ACOUSTICAL PANELS
A. Acoustical Panel Standard: Provide manufacturer's standard panels according to ASTM E1264 and designated by type, form, pattern, acoustical rating, and light reflectance unless otherwise indicated.
B. Product: Subject to compliance with requirements, provide product indicated in "Materials and Color Schedule" on Drawings, or equal.
C. Antimicrobial Treatment: Manufacturer's standard broad spectrum, antimicrobial formulation that inhibits fungus, mold, mildew, and gram-positive and gram-negative bacteria and showing no mold, mildew, or bacterial growth when tested according to ASTM D3273, ASTM D3274, or ASTM G21 and evaluated according to ASTM D3274 or ASTM G21.
1.4 METAL SUSPENSION SYSTEM
A. Existing Suspension System: Repair and restore existing suspension system as indicated in "Materials and Color Schedule" on Drawings.
1.5 INSTALLATION
A. Install acoustical panel ceilings according to ASTM C636/C636M, seismic design requirements, and manufacturer's written instructions.
B. Install acoustical panels with undamaged edges and fit accurately into suspension-system runners and edge moldings. Scribe and cut panels at borders and penetrations to provide precise fit. Paint cut edges of panel remaining exposed after installation; match color of exposed panel surfaces using coating recommended in writing for this purpose by acoustical panel manufacturer.
1.6 CLEANING
A. Clean exposed surfaces of acoustical panel ceilings, including trim, edge moldings, and suspension-system members. Comply with manufacturer's written instructions for cleaning and touchup of minor finish damage.
B. Remove and replace ceiling components that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.

END OF SECTION

SECTION 096513 - RESILIENT BASE AND ACCESSORIES

1.1 SUMMARY
A. Section Includes: Thermoplastic-rubber base 4" height.
1.2 ACTION SUBMITTALS
A. Product Data: For each type of product.

1.3 PERFORMANCE REQUIREMENTS
A. Products shall comply with the requirements of the California Department of Public Health's "Standard Methoc for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."
1.4 THERMOPLASTIC-RUBBER BASE
A. Product: Subject to compliance with requirements, provide product indicated in "Materials and Color Schedule' on Drawings, or equal.
B. Outside Corners: Job formed.
C. Inside Corners: Job formed.
D. Colors: As indicated by manufacturer's designations.
1.5 INSTALLATION MATERIALS
A. Trowelable Leveling and Patching Compounds: Latex-modified, portland-cement-based or blended hydraulic-cement-based formulation provided or approved by resilient-product manufacturer for applications indicated.
B. Adhesives: Water-resistant type recommended by resilient-product manufacturer for resilient products and substrate conditions indicated. Adhesives shall have a VOC content of 50 g/L or less.
C. Floor Polish: Provide protective, liquid floor-polish products recommended by resilient stair-tread manufacturer.
1.6 RESILIENT BASE INSTALLATION
A. Comply with manufacturer's written instructions for installing resilient base.
B. Apply resilient base to walls, columns, pilasters, casework and cabinets in toe spaces, and other permanent fixtures in rooms and areas where base is required.
C. Install resilient base in lengths as long as practical without gaps at seams and with tops of adjacent pieces aligned.
D. Tightly adhere resilient base to substrate throughout length of each piece, with base in continuous contact with horizontal and vertical substrates.
E. Do not stretch resilient base during installation.
1.7 RESILIENT ACCESSORY INSTALLATION
A. Comply with manufacturer's written instructions for installing resilient accessories.
B. Resilient Molding Accessories: Butt to adjacent materials and tightly adhere to substrates throughout length of each piece. Install reducer strips at edges of floor covering that would otherwise be exposed.
1.8 CLEANING AND PROTECTION
A. Comply with manufacturer's written instructions for cleaning and protecting resilient products.

END OF SECTION

SECTION 09 65 19 - RESILIENT TILE FLOORING

1.1 SUMMARY
A. Section Includes: Vinyl composition floor tile.
1.2 ACTION SUBMITTALS
A. Product Data: For each type of product.
B. Samples: Full-size units of each color, texture, and pattern of floor tile required.
1.3 PERFORMANCE REQUIREMENTS
A. Verify flooring products comply with the requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."
1.4 VINYL COMPOSITION FLOOR TILE
A. Product: Subject to compliance with requirements, provide product indicated in "Materials and Color Schedule' on Drawings, or equal.
B. Colors and Patterns: As indicated by manufacturer's designations.
1.5 INSTALLATION MATERIALS
A. Trowelable Leveling and Patching Compounds: Latex-modified, portland-cement-based or blended hydraulic-cement-based formulation provided or approved by floor tile manufacturer for applications indicated.
B. Adhesives: Water-resistant type recommended by floor tile and adhesive manufacturers to suit floor tile and substrate conditions indicated. Verify adhesive complies with the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."
C. Floor Polish: Provide protective, liquid floor-polish products recommended by floor tile manufacturer.
D. Sealers and Finish Coats for Resilient Terrazzo Floor Tile: Products recommended by floor tile manufacturer for resilient terrazzo floor tile.

1.6 FLOOR TILE INSTALLATION
A. Comply with manufacturer's written instructions for installing floor tile.
B. Lay out floor tiles from center marks established with principal walls, discounting minor offsets, so tiles a opposite edges of room are of equal width. Adjust as necessary to avoid using cut widths that equal less thar one-half tile at perimeter.
C. Match floor tiles for color and pattern by selecting tiles from cartons in the same sequence as manufactured anc packaged, if so numbered. Discard broken, cracked, chipped, or deformed tiles.
D. Scribe, cut, and fit floor tiles to butt neatly and tightly to vertical surfaces and permanent fixtures including built in furniture, cabinets, pipes, outlets, and door frames.
E. Extend floor tiles into toe spaces, door reveals, closets, and similar openings. Extend floor tiles to center of doo openings.
F. Install floor tiles on covers for telephone and electrical ducts, building expansion-joint covers, and similar items in installation areas. Maintain overall continuity of color and pattern between pieces of tile installed on covers and adjoining tiles. Tightly adhere tile edges to substrates that abut covers and to cover perimeters.
G. Adhere floor tiles to substrates using a full spread of adhesive applied to substrate to produce a completec installation without open cracks, voids, raising and puckering at joints, telegraphing of adhesive spreader marks and other surface imperfections.
1.7 CLEANING AND PROTECTION
A. Comply with manufacturer's written instructions for cleaning and protecting floor tile.
B. Floor Polish: Remove soil, adhesive, and blemishes from floor tile surfaces before applying liquid floor polish Apply one coat(s).
C. Cover floor tile until Substantial Completion.
END OF SECTION

SECTION 09 91 13 - EXTERIOR PAINTING

1.1 SUMMARY
A. Section includes surface preparation and the application of paint systems on exterior substrates.
1.2 ACTION SUBMITTALS
A. Product Data: For each type of product. Include preparation requirements and application instructions.
B. Samples for Verification: For each type of paint system and each color and gloss of topcoat.
1.3 MANUFACTURERS
A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
1. Benjamin Moore & Co.
2. Dunn-Edwards Corporation.
3. Sherwin-Williams Company (The) Basis of Design manufacturer.
4. Vista Paint.
1.4 PAINT, GENERAL
A. Material Compatibility:
1. Provide materials for use within each paint system that are compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
2. For each coat in a paint system, provide products recommended in writing by manufacturers of topcoa for use in paint system and on substrate indicated.
B. VOC Content: Provide materials that comply with VOC limits of authorities having jurisdiction.
1.5 APPLICATION
A. Apply paints according to manufacturer's written instructions and recommendations in "MPI Manual."
1. Paint surfaces behind movable items same as similar exposed surfaces. Before final installation, pain surfaces behind permanently fixed items with prime coat only.
2. Paint both sides and edges of exterior doors and entire exposed surface of exterior door frames.
3. Do not paint over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.
B. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.
1.6 CLEANING AND PROTECTION
A. After completing paint application, clean spattered surfaces. Remove spattered paints by washing, scraping, o other methods. Do not scratch or damage adjacent finished surfaces.

B. Protect work of other trades against damage from paint application. Correct damage to work of other trades by cleaning, repairing, replacing, and refinishing, as approved by Architect, and leave in an undamaged condition.
1.7 EXTERIOR PAINTING SCHEDULE
A. Ferrous Metal Substrate: 100% Acrylic Semi Gloss.
1. Prime Coat:
a. Benjamin Moore & Co: M04 Acrylic Prime
b. Dunn Edwards: UGPR00 Ultra-Grip Premium
c. Sherwin-Williams Company (The): B66W1 DTM Acrylic Primer (BOD)
d. Vista Paint: 9600 Protec Primer
2. Intermediate Coat:
a. Benjamin Moore & Co: W096 Regal Select 100% Acrylic Semi Gloss
b. Dunn Edwards: EVSH40 Evershield Semi Gloss Exterior
c. Sherwin-Williams Company (The): K34 Duration Gloss (BOD)
d. Vista Paint: 8400 Carefree Semi Gloss 100% Acrylic
3. Finish Coat:
a. Benjamin Moore & Co: W096 Regal Select 100% Acrylic Semi Gloss
b. Dunn Edwards: EVSH40 Evershield Semi Gloss Exterior
c. Sherwin-Williams Company (The): K34 Duration Gloss (BOD)
d. Vista Paint: 8400 Carefree Semi Gloss 100% Acrylic
B. Wood Substrates: 100% Acrylic Flat.
1. Prime Coat:
a. Benjamin Moore & Co: 023 Fresh Start Primer
b. Dunn Edwards: EZPR00 E-Z Prime Premium
c. Sherwin-Williams Company (The): B51W20 PrepRite Pro Block (BOD)
d. Vista Paint: 4200 Terminator II
2. Intermediate Coat:
a. Benjamin Moore & Co: W105 Regal Select 100% Acrylic Flat
b. Dunn Edwards: EVSH10 Evershield Ext Flat
c. Sherwin-Williams Company (The): K32 Duration Flat (BOD)
d. Vista Paint: 2000 Duratone 100% Acrylic Flat
3. Finish Coat:
a. Benjamin Moore & Co: W105 Regal Select 100% Acrylic Flat
b. Dunn Edwards: EVSH10 Evershield Ext Flat
c. Sherwin-Williams Company (The): K32 Duration Flat (BOD)
d. Vista Paint: 2000 Duratone 100% Acrylic Flat

END OF SECTION

SECTION 09 91 23 - INTERIOR PAINTING

1.1 SUMMARY
A. Section includes surface preparation and the application of paint systems on the following interior substrates:
1. Steel.
2. Wood.
3. Gypsum board.
1.2 ACTION SUBMITTALS
A. Product Data: For each type of product. Include preparation requirements and application instructions.
B. Samples for Verification: For each type of paint system and in each color and gloss of topcoat.
1.3 MANUFACTURERS
A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. Benjamin Moore & Co. Montvale, New Jersey 07653; www.benjaminmoore.com.
2. Dunn-Edwards Paint Co. (The), Los Angeles, California 90058; www.dunnedwards.com.
3. Sherwin-Williams Company (The), Cleveland, Ohio 44115; www.sherwin-williams.com.
4. Vista Paint Corporation (The), Fullerton, California 92831; www.vistapaint.com.
1.4 PAINT, GENERAL
A. Material Compatibility:
1. Provide materials for use within each paint system that are compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.

2. For each coat in a paint system, provide products recommended in writing by manufacturers of topcoat for use in paint system and on substrate indicated.
B. Low-Emitting Materials: Interior paints and coatings shall comply with the testing and product requirements of the California Department of Health Services' "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers."
1.5 APPLICATION
A. Apply paints according to manufacturer's written instructions and to recommendations in "MPI Manual."
1. Use applicators and techniques suited for paint and substrate indicated.
2. Paint surfaces behind movable equipment and furniture same as similar exposed surfaces. Before final installation, paint surfaces behind permanently fixed equipment or furniture with prime coat only.
3. Do not paint over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.
B. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.
1.6 CLEANING AND PROTECTION
A. After completing paint application, clean spattered surfaces. Remove spattered paints by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.
B. Protect work of other trades against damage from paint application. Correct damage to work of other trades by cleaning, repairing, replacing, and refinishing, as approved by Architect, and leave in an undamaged condition.
1.7 INTERIOR PAINTING SCHEDULE
A. Ferrous Metal Substrate: 100% Acrylic Semi Gloss
1. Prime Coat:
a. Benjamin Moore & Co: M04 Acrylic Prime
b. Dunn Edwards: UGPR00 Ultra-Grip Premium
c. Sherwin-Williams Company (The): B66W1 DTM Acrylic Primer
d. Vista Paint: 9600 Protec Primer
2. Intermediate Coat:
a. Benjamin Moore & Co: 551 Regal Select 100% Acrylic Semi Gloss
b. Dunn Edwards: SPMA40 Suprema Semi Gloss Interior
c. Sherwin-Williams Company (The): A98 Duration Semi Gloss
d. Vista Paint: 8400 Carefree Semi Gloss 100% Acrylic
3. Finish Coat:
a. Benjamin Moore & Co: 551 Regal Select 100% Acrylic Semi Gloss
b. Dunn Edwards: SPMA40 Suprema Semi Gloss Interior
c. Sherwin-Williams Company (The): A98 Duration Semi Gloss
d. Vista Paint: 8400 Carefree Semi Gloss 100% Acrylic
B. Wood Substrates: 100% Acrylic Eggshell
1. Prime Coat:
a. Benjamin Moore & Co: 023 Fresh Start Primer
b. Dunn Edwards: EZPR00 E-Z Prime Premium
c. Sherwin-Williams Company (The): B51W20 PrepRite Pro Block
d. Vista Paint: 4200 Terminator II
2. Intermediate Coat:
a. Benjamin Moore & Co: 549 Regal Select 100% Acrylic Eggshell
b. Dunn Edwards: SPMA30 Suprema Eggshell Interior
c. Sherwin-Williams Company (The): A97 Duration Satin
d. Vista Paint: 8300 Carefree Eggshell 100% Acrylic
3. Finish Coat:
a. Benjamin Moore & Co: 549 Regal Select 100% Acrylic Eggshell
b. Dunn Edwards: SPMA30 Suprema Eggshell Interior
c. Sherwin-Williams Company (The): A97 Duration Satin
d. Vista Paint: 8300 Carefree Eggshell 100% Acrylic
C. Wood Substrates: 100% Acrylic Semi Gloss
1. Prime Coat:
a. Benjamin Moore & Co: 023 Fresh Start Primer
b. Dunn Edwards: EZPR00 E-Z Prime Premium
c. Sherwin-Williams Company (The): B51W20 PrepRite Pro Block
d. Vista Paint: 4200 Terminator II
2. Intermediate Coat:

a. Benjamin Moore & Co: 551 Regal Select 100% Acrylic Semi Gloss
b. Dunn Edwards: SPMA40 Suprema Semi Gloss Interior
c. Sherwin-Williams Company (The): A98 Duration Semi Gloss
d. Vista Paint: 8400 Carefree Semi Gloss 100% Acrylic
3. Finish Coat:
a. Benjamin Moore & Co: 551 Regal Select 100% Acrylic Semi Gloss
b. Dunn Edwards: SPMA40 Suprema Semi Gloss Interior
c. Sherwin-Williams Company (The): A98 Duration Semi Gloss
d. Vista Paint: 8400 Carefree Semi Gloss 100% Acrylic
D. Gypsum Wallboard Substrates: 100% Acrylic Flat
1. Prime Coat:
a. Benjamin Moore & Co: 023 Fresh Start Primer
b. Dunn Edwards: VNPR00 PVA Sealer
c. Sherwin-Williams Company (The): B28W08111 Premium Wall & Wood Primer
d. Vista Paint: 1100 Hi Build PVA Sealer
2. Intermediate Coat:
a. Benjamin Moore & Co: 547 Regal Select 100%. Acrylic Flat
b. Dunn Edwards: SPMA10 Suprema Int Flat
c. Sherwin-Williams Company (The): A96 Duration Flat
d. Vista Paint: 8100Carefree Acrylic Flat
3. Finish Coat:
a. Benjamin Moore & Co: 547 Regal Select 100% Acrylic Flat
b. Dunn Edwards: SPMA10 Suprema Int Flat
c. Sherwin-Williams Company (The): A96 Duration Flat
d. Vista Paint: 8100Carefree Acrylic Flat
E. Gypsum Wallboard Substrates: 100% Acrylic Eggshell
1. Prime Coat:
a. Benjamin Moore & Co: 023 Fresh Start Primer
b. Dunn Edwards: VNPR00 PVA Sealer
c. Sherwin-Williams Company (The): B28W08111 Premium Wall & Wood Primer
d. Vista Paint: 1100 Hi Build PVA Sealer
2. Intermediate Coat:
a. Benjamin Moore & Co: 549 Regal Select 100% Acrylic Eggshell
b. Dunn Edwards: SPMA30 Suprema Eggshell Interior
c. Sherwin-Williams Company (The): A97 Duration Satin
d. Vista Paint: 8300 Carefree Eggshell 100% Acrylic
3. Finish Coat:
a. Benjamin Moore & Co: 549 Regal Select 100% Acrylic Eggshell
b. Dunn Edwards: SPMA30 Suprema Eggshell Interior
c. Sherwin-Williams Company (The): A97 Duration Satin
d. Vista Paint: 8300 Carefree Eggshell 100% Acrylic

END OF SECTION

SECTION 10 44 16 - FIRE EXTINGUISHERS

1.1 SUMMARY
A. Section includes portable, hand-carried fire extinguishers and mounting brackets for fire extinguishers.
1.2 ACTION SUBMITTALS
A. Product Data: For each type of product. Include rating and classification, material descriptions, dimensions o individual components and profiles, and finishes for fire extinguisher and mounting brackets.
1.3 WARRANTY
A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace fire extinguishers that fail in materials or workmanship within specified warranty period. Warranty Period: Six years from date of Substantial Completion.
1.4 PERFORMANCE REQUIREMENTS
A. NFPA Compliance: Fabricate and label fire extinguishers to comply with NFPA 10, "Portable Fire Extinguishers.'

B. Fire Extinguishers: Listed and labeled for type, rating, and classification by an independent testing agency acceptable to authorities having jurisdiction. Provide fire extinguishers approved, listed, and labeled by FM Global.
C. Comply with requirements of Title 19 C.C.R.
1.5 PORTABLE, HAND-CARRIED FIRE EXTINGUISHERS
A. Multipurpose Dry-Chemical Type in Steel Container: UL-rated 4-A:80-B:C, 10-lb nominal capacity, with monoammonium phosphate-based dry chemical in enameled-steel container.
1.6 MOUNTING BRACKETS
A. Mounting Brackets: Manufacturer's standard galvanized steel, designed to secure fire extinguisher to wall or structure, of sizes required for types and capacities of fire extinguishers indicated, with plated or red baked-enamel finish.
B. Identification: Lettering complying with authorities having jurisdiction for letter style, size, spacing, and location. Locate as indicated by Architect. Identify bracket-mounted fire extinguishers with the words "FIRE EXTINGUISHER" in red letter decals applied to mounting surface. Orientation: Vertical.
1.7 INSTALLATION
A. General: Install fire extinguishers and mounting brackets in locations indicated and in compliance with requirements of authorities having jurisdiction.

END OF SECTION

SECTION 12 21 13 - HORIZONTAL LOUVER BLINDS

1.1 SUMMARY
A. Section Includes: Horizontal louver blinds with polymer slats.
1.2 ACTION SUBMITTALS
A. Product Data: For each type of product.
B. Shop Drawings: For horizontal louver blinds, include fabrication and installation details.
C. Samples for Verification: For each type and color of horizontal louver blind indicated.
1.3 HORIZONTAL LOUVER BLINDS, POLYMER SLATS
A. Product: Subject to compliance with requirements, provide product indicated in "Materials and Colors Schedule" on Drawings, or equal.
B. Flame-Resistance Rating: Comply with NFPA 701; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
C. Slats: Polymers that are lead free, UV stabilized, integrally colored, opaque, and will not crack or yellow; antistatic, dust-repellent treated.
D. Headrail: Formed steel or extruded aluminum; long edges returned or rolled. Headrail fully encloses operating mechanisms on three sides and ends.
1. Capacity: One blind(s) per headrail unless otherwise indicated.
2. Manual Lift Mechanism:
a. Lift-Cord Lock: Variable; stops lift cord at user-selected position within full operating range.
b. Operator: Extension of lift cord(s) through lift-cord lock mechanism to form cord pull.
3. Manual Tilt Mechanism: Enclosed worm-gear mechanism and linkage rod that adjusts ladders.
a. Tilt: Full.
b. Operator: Clear-plastic wand.
c. Over-Rotation Protection: Manufacturer's detachable operator or slip clutch to prevent over rotation of gear.
4. Manual Lift-Operator and Tilt-Operator Lengths: Manufacturer's standard.
5. Manual Lift-Operator and Tilt-Operator Locations: Manufacturer's standard unless otherwise indicated.
E. Bottom Rail: Secures and protects ends of ladders and lift cords. Type: Manufacturer's standard.
F. Lift Cord: Manufacturer's standard braided cord.
G. Ladders: Evenly spaced across headrail at spacing that prevents long-term slat sag. Type: Cloth tape, manufacturer's standard width.
H. Mounting Brackets: With spacers and shims required for blind placement and alignment indicated.
I. Colors, Textures, Patterns, and Gloss:
1. Slats: Match Architect's samples for custom color and other characteristics.
2. Components: Provide rails, cords, ladders, and materials exposed to view matching or coordinating with slat color unless otherwise indicated.

1.4 HORIZONTAL LOUVER BLIND FABRICATION
A. Product Safety Standard: Fabricate horizontal louver blinds to comply with WCMA A 100.1 including requirements for corded, flexible, looped devices; lead content of components; and warning labels.
B. Unit Sizes: Fabricate units in sizes to fill window and other openings as follows, measured at 74 deg F:
1. Between (Inside) Jamb Installation: Width equal to jamb-to-jamb dimension of opening in which blind is installed less 1/4 inch per side or 1/2 inch total, plus or minus 1/8 inch. Length equal to head-to-sill dimension of opening in which blind is installed less 1/4 inch, plus or minus 1/8 inch.
2. Outside of Jamb Installation: Width and length as indicated, with terminations between blinds of end-to-end installations at centerlines of mullion or other defined vertical separations between openings.
1.5 INSTALLATION
A. Install horizontal louver blinds level and plumb, aligned and centered on openings, and aligned with adjacent units according to manufacturer's written instructions.
1. Locate so exterior slat edges are not closer than 2 inches from interior faces of glass and not closer than 1/2 inch from interior faces of glazing frames through full operating ranges of blinds.
2. Install with clearances that prevent interference with adjacent blinds, adjacent construction, and operating hardware of glazed openings, other window treatments, and similar building components and furnishings.
1.6 CLEANING AND PROTECTION
A. Clean horizontal louver blind surfaces after installation according to manufacturer's written instructions.
B. Provide final protection and maintain conditions in a manner acceptable to manufacturer and Installer that ensures that horizontal louver blinds are without damage or deterioration at time of Substantial Completion.
C. Replace damaged horizontal louver blinds that cannot be repaired in a manner approved by Architect before time of Substantial Completion.

END OF SECTION

DSA STAMP

HPI
architecture

www.hpiarchitecture.com
115 22nd street
Newport Beach, CA 92663
o: 949.675.6442

SEAL

AMMAR NAJI SARSAM
C-30902
12/31/2023
RENEWAL DATE

CONSULTANTS

PROJECT TITLE

HRC TEMP RELOCATABLE CLASSROOM & RESTROOM
9200 VALLEY VIEW ST.
CYPRESS, CA 90630

Cypress College

CYPRESS COMMUNITY COLLEGE
9200 VALLEY VIEW ST.
CYPRESS, CA 90630

ISSUED

#	DATE	DESCRIPTION
	04/06/2023	DSA BACKCHECK SUBMITTAL

PROJECT IDENTIFICATION

THE DRAWINGS IN THE SHEET INDEX WERE ORIGINALLY CREATED IN AUTODESK REVIT V. 2018 UNLESS OTHERWISE NOTED.

THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42".

SHEET TITLE

SPECIFICATIONS

SHEET NUMBER

G6.10D

DSA SUBMITTAL

CAUTION:

1. THE LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS PLAN WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. (A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES). CONTRACTOR SHALL VERIFY LOCATION AND DEPTH PRIOR TO ANY EXCAVATION OR IMPROVEMENT.
2. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT FOR LOCATION OF UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION– PHONE (800) 422–4133. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES PRIOR TO BEGINNING ANY WORK ON THIS SITE.
3. THESE DRAWINGS DO NOT ADDRESS CONTRACTOR MEANS, METHODS OR PROCESSES THAT MAY BE ASSOCIATED WITH ANY TOXIC SOILS IF FOUND ON SITE. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL CITY AND COUNTY STANDARDS AND APPROPRIATE REGULATIONS IF TOXIC SOILS ARE ENCOUNTERED. CONTRACTOR MUST NOTIFY THE PROJECT MANAGER IMMEDIATELY IF ANY SOILS ARE EVEN SUSPECTED OF BEING CONTAMINATED.

GENERAL SITE NOTES:

1. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING ON THIS WORK AND CONSIDER THE EXISTING CONDITIONS AND SITE CONSTRAINTS IN THE BID. CONTRACTOR SHALL BE IN THE POSSESSION OF AND FAMILIAR WITH ALL APPLICABLE GOVERNING AGENCIES STANDARD DETAILS AND SPECIFICATIONS PRIOR TO SUBMITTING OF A BID.
2. ALL WORK ON–SITE AND IN THE PUBLIC RIGHT–OF–WAY SHALL CONFORM TO ALL APPLICABLE GOVERNING AGENCIES STANDARD DETAILS & SPECIFICATIONS.
3. PRIOR TO BEGINNING WORK, AND AFTER INITIAL HORIZONTAL CONTROL STAKING, CONTRACTOR SHALL FIELD CHECK ALL ELEVATIONS MARKED WITH (E) AND REPORT ANY DISCREPANCIES GREATER THAN 0.05' OR 0.02' IN ADA AREAS TO PROJECT MANAGER.
4. DAMAGE TO ANY EXISTING SITE IMPROVEMENTS, UTILITIES AND/OR SERVICES TO REMAIN SHALL BE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL REPAIR AND/OR REPLACE IN KIND.
5. CONTRACTOR SHALL REPLACE ALL STRUCTURES AND GRATE LIDS FOR VAULTS, CATCH BASINS, ETC., WITHIN TRAFFIC ACCESSIBLE AREAS WITH STRUCTURES AND LIDS RATED FOR HS20–44 LOADING AND MARKED AS SUCH.
6. THE CONTRACTOR SHALL ADJUST TO FINAL GRADE ALL EXISTING AND/OR NEW MANHOLES, CURB INLETS, CATCH BASINS, VALVES, MONUMENT COVERS, AND OTHER CASTINGS WITHIN THE WORK AREA TO FINAL GRADE IN PAVEMENT AND LANDSCAPE AREAS UNLESS NOTED OTHERWISE.
7. THE OWNER AND CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATER CREATES A HAZARDOUS CONDITION.
8. EXISTING PEDESTRIAN WALKWAYS, BIKE PATHS AND ACCESSIBLE PATHWAYS SHALL BE MAINTAINED, WHERE FEASIBLE, DURING CONSTRUCTION.
9. IF A CONFLICT ARISES BETWEEN THE SPECIFICATIONS AND THE PLAN NOTES, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.
10. If CORROSIVE TESTS BY THE GEOTECHNICAL ENGINEER INDICATE THAT ON–SITE SOILS ARE "CORROSIVE" TO BURIED FERROUS METAL, CONTRACTOR SHALL PROVIDE PROTECTION FOR BURIED FERROUS METAL AS RECOMMENDED BY A CORROSION ENGINEER

DEMOLITION NOTES:

1. CONTRACTOR IS TO COMPLY WITH ALL GENERAL AND STATE REQUIREMENTS INVOLVING THE REMOVAL AND DISPOSAL OF HAZARDOUS MATERIAL(S).
2. CONTRACTOR'S BID IS TO INCLUDE ALL VISIBLE SURFACE AND ALL SUBSURFACE FEATURES IDENTIFIED TO BE REMOVED OR ABANDONED IN THESE DOCUMENTS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A SITE INSPECTION TO FULLY ACKNOWLEDGE THE EXTENT OF THE DEMOLITION WORK.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL PERMITS NECESSARY FOR ENCROACHMENT, GRADING, DEMOLITION, AND DISPOSAL OF SAID MATERIALS AS REQUIRED BY PRIVATE, LOCAL AND STATE JURISDICTIONS. THE CONTRACTOR SHALL PAY ALL FEES ASSOCIATED WITH THE DEMOLITION WORK.
5. BACKFILL ALL DEPRESSIONS AND TRENCHES FROM DEMOLITION TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
6. REMOVAL OF LANDSCAPING SHALL INCLUDE ROOTS AND ORGANIC MATERIALS TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
7. PRIOR TO BEGINNING DEMOLITION WORK ACTIVITIES, CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES OUTLINED IN THE EROSION CONTROL PLAN & DETAILS.
8. THE CONTRACTOR SHALL MAINTAIN ALL SAFETY DEVICES, AND SHALL BE RESPONSIBLE FOR CONFORMANCE TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS LAWS AND REGULATIONS.
9. THE CONTRACTOR SHALL PROTECT FROM DAMAGE ALL EXISTING IMPROVEMENTS FACILITIES AND STRUCTURES WHICH ARE TO REMAIN. ANY ITEMS DAMAGED BY THE CONTRACTOR OR HIS AGENTS OR ANY ITEMS REMOVED FOR HIS USE SHALL BE REPLACED IN EQUAL OR BETTER CONDITION AS APPROVED BY THE ARCHITECT OR OWNER'S REPRESENTATIVE.
10. COORDINATE WITH ELECTRICAL, MECHANICAL, LANDSCAPING AND ARCHITECTURAL DRAWINGS FOR UTILITY SHUT–DOWN/DISCONNECT LOCATIONS. CONTRACTOR IS TO SHUT OFF ALL UTILITIES AS NECESSARY PRIOR TO DEMOLITION. CONTRACTOR IS TO COORDINATE SERVICE INTERRUPTIONS WITH THE CLIENT. DO NOT INTERRUPT SERVICES TO ADJACENT OFF–SITE OWNERS. ALSO SEE ARCHITECTURAL PLANS FOR ADDITIONAL DEMOLITION SCOPE OF WORK.
11. THIS PLAN IS NOT INTENDED TO BE A COMPLETE CATALOGUE OF ALL EXISTING STRUCTURES AND UTILITIES. THIS PLAN INTENDS TO DISCLOSE GENERAL INFORMATION KNOWN BY THE ENGINEER AND TO SHOW THE LIMITS OF THE AREA WHERE WORK WILL BE PERFORMED. THIS PLAN SHOWS THE EXISTING FEATURES TAKEN FROM A FIELD SURVEY, FIELD INVESTIGATIONS AND AVAILABLE INFORMATION. THIS PLAN MAY OR MAY NOT ACCURATELY REFLECT THE TYPE OR EXTENT OF THE ITEMS TO BE ENCOUNTERED AS THEY ACTUALLY EXIST. WHERE EXISTING FEATURES ARE NOT SHOWN, IT IS NOT IMPLIED THAT THEY ARE NOT TO BE DEMOLISHED OR REMOVED. THE CONTRACTOR SHALL PERFORM A THOROUGH FIELD INVESTIGATION AND REVIEW OF THE SITE WITHIN THE LIMIT OF WORK SHOWN IN THIS PLAN SET TO DETERMINE THE TYPE, QUANTITY AND EXTENT OF ANY AND ALL ITEMS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DETERMINING THE EXTENT OF EXISTING STRUCTURES AND UTILITIES AND QUANTITY OF WORK INVOLVED IN REMOVING THESE ITEMS FROM THE SITE.
12. CONTRACTOR SHALL NOTIFY ARCHITECT OF RECORD IMMEDIATELY FOR ANY EXISTING ITEMS THAT HAVE NOT BEEN DOCUMENTED IN THIS PLAN SET WITHIN THE AREA OF WORK THAT IMPACT THE SCOPE OF THIS PROJECT.

RECORD DRAWINGS:

1. THE CONTRACTOR SHALL KEEP UP–TO–DATE AND ACCURATE A COMPLETE RECORD SET OF PRINTS OF THE CONTRACT DRAWINGS SHOWING EVERY CHANGE FROM THE ORIGINAL DRAWINGS MADE DURING THE COURSE OF CONSTRUCTION INCLUDING EXACT FINAL LOCATION, ELEVATION, SIZES, MATERIALS, AND DESCRIPTION OF ALL WORK. RECORDS SHALL BE "REDLINED" ON A SET OF CONSTRUCTION PLAN DRAWINGS. A COMPLETE SET OF RECORD DRAWINGS ARE TO BE SUBMITTED TO THE ARCHITECT AND CIVIL ENGINEER FOR REVIEW PRIOR TO FINAL ACCEPTANCE BY THE DISTRICT.

HORIZONTAL CONTROL NOTES:

1. ALL DIMENSIONS ON THE PLANS ARE IN FEET OR DECIMALS THEREOF UNLESS SPECIFICALLY CALLED OUT AS FEET AND INCHES.
2. THIS IS NOT A STAKING PLAN BUT A CHECK AND VERIFICATION OF THE MAJOR DIMENSIONS AS SHOWN ON THE ARCHITECTURAL SITE PLAN.
3. ALL DIMENSIONS SHOWN ARE TO FACE OF CURB, FACE OF WALL, PROPERTY OR RIGHT–OF–WAY LINE, OR CENTER OF DRIVEWAYS.
4. SEE ARCHITECTURAL FLOOR PLANS FOR ALL BUILDING DIMENSIONS.

EROSION AND SEDIMENTATION CONTROL NOTES:

1. EROSION CONTROL MEASURES ARE INTENDED TO PREVENT SEDIMENT AND DEBRIS FROM ENTERING THE CITY STORM DRAIN SYSTEM, SANITARY SEWER SYSTEM OR FROM LEAVING THE SITE. THE CONTRACTOR SHALL MAKE ADJUSTMENTS IN THE FIELD TO MAKE SURE THAT THIS CONCEPT IS CARRIED OUT.
2. EROSION CONTROL FACILITIES AND MEASURES ARE TO BE INSTALLED AND OPERABLE YEAR–ROUND THROUGHOUT CONSTRUCTION, AND SHALL CONTINUE IN EFFECT UNTIL INSTALLATION OF THE PERMANENT SITE IMPROVEMENTS.
3. CONTRACTOR SHALL ASSUME THE CONCEPTS ON THE EROSION CONTROL PLAN, IF PROVIDED, ARE SCHEMATIC MINIMUM REQUIREMENTS, THE FULL EXTENT OF WHICH ARE TO BE DETERMINED BY THE CONTRACTOR AND AS DESCRIBED IN THE PROJECT SWPPP. CONTRACTOR IS RESPONSIBLE FOR THE EXACT DESIGN AND EXTENT OF THE EROSION CONTROL SYSTEM SO THAT IT WORKS WITH THE CONTRACTOR'S INTENDED USE AND MANAGEMENT OF THE CONSTRUCTION SITE.
4. ALL EROSION CONTROL FACILITIES SHALL BE INSPECTED BY THE CONTRACTOR AND REPAIRED, AS REQUIRED, AT THE CONCLUSION OF EACH WORKING DAY. THE CONTRACTOR SHALL INSPECT THE EROSION CONTROL FACILITIES AND MAKE NECESSARY REPAIRS PRIOR TO ANTICIPATED STORMS AND AT REASONABLE INTERVALS DURING STORMS OF EXTENDED DURATION. REPAIRS TO DAMAGED FACILITIES SHALL BE MADE IMMEDIATELY UPON DISCOVERY.
5. AS SOON AS PRACTICAL FOLLOWING EACH STORM, THE CONTRACTOR SHALL REMOVE ANY ACCUMULATION OF SILT OR DEBRIS FROM THE EROSION CONTROL SEDIMENT BASINS AND SHALL CLEAR THE OUTLET PIPES OF ANY BLOCKAGE.
6. STOCKPILED MATERIAL SHALL BE COVERED WITH VISQUEEN OR A TARPAULIN UNTIL THE MATERIAL IS REMOVED FROM THE SITE. ANY REMAINING BARE SOIL THAT EXISTS AFTER THE STOCKPILE HAS BEEN REMOVED SHALL BE COVERED UNTIL A NATURAL GROUND COVER IS ESTABLISHED OR IT MAY BE SEEDED OR PLANTED TO PROVIDE GROUND COVER.
7. PRIOR TO THE COMMENCEMENT OF ANY CLEARING, GRADING, OR EXCAVATION, THE CONTRACTOR SHALL VERIFY THAT THE OWNER HAS SUBMITTED TO THE STATE WATER RESOURCES CONTROL BOARD A NOTICE OF INTENT (NOI) FOR COVERAGE UNDER THE STATE CONSTRUCTION STORM WATER GENERAL PERMIT, IF REQUIRED BY THE STATE. THE CONTRACTOR SHALL MAINTAIN A COPY OF THE NOI ON THE CONSTRUCTION SITE.
8. NECESSARY MATERIALS SHALL BE AVAILABLE ON SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
9. EROSION CONTROL DEVICES SHALL NOT BE MOVED OR MODIFIED WITHOUT THE APPROVAL OF THE OWNER.
10. ALL REMOVABLE EROSION PROTECTIVE DEVICES SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE 5–DAY RAIN PROBABILITY FORECAST EXCEEDS 40%.
11. AFTER A RAINSTORM, ALL SILT AND DEBRIS SHALL BE REMOVED FROM STREETS, CHECK BERMS AND BASINS.
12. GRADED AREAS ON THE PERMITTED AREA PERIMETER MUST DRAIN AWAY FROM THE FACE OF SLOPES AT THE CONCLUSION OF EACH WORKING DAY. DRAINAGE IS TO BE DIRECTED TOWARD DESILTING FACILITIES.
13. THE CONTRACTOR SHALL INSPECT THE EROSION CONTROL WORK AND INSURE THAT THE WORK IS IN ACCORDANCE WITH APPROVED PLANS, THE PROJECT SWPPP, AND THE PROJECT WQMP.
14. PROTECT ADJACENT PROPERTIES AND UNDISTURBED AREAS FROM CONSTRUCTION IMPACTS USING VEGETATIVE BUFFER STRIPS, SEDIMENT BARRIERS OR FILTERS, DIKES, MULCHING OR OTHER MEASURES AS APPROPRIATE.
15. CONTRACTOR SHALL MAINTAIN ADJACENT STREETS IN A NEAT, CLEAN, DUST FREE AND SANITARY CONDITION AT ALL TIMES AND TO THE SATISFACTION OF THE CITY INSPECTOR. THE ADJACENT STREET SHALL BE KEPT CLEAN OF DEBRIS, WITH DUST AND OTHER NUISANCE BEING CONTROLLED AT ALL TIMES. DEVELOPER SHALL BE RESPONSIBLE FOR ANY CLEAN UP ON ADJACENT STREETS AFFECTED BY THEIR CONSTRUCTION, METHOD OF STREET CLEANING SHALL BE BY DRY SWEEPING OF ALL PAVED AREAS. NO STOCKPILING OF BUILDING MATERIALS WITHIN THE CITY'S RIGHT–OF–WAY IS PERMITTED.
16. ALL EROSION CONTROL MATERIALS SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED.
17. CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING EROSION CONTROLS, SEDIMENT CONTROLS AND ALL OTHER BEST MANAGEMENT PRACTICES (BMP'S) THROUGH OUT THE DURATION OF CONSTRUCTION, AS OUTLINED IN THE PROJECT SWPPP AND AS DIRECTED BY THE PROJECT QUALIFIED SWPPP PRACTITIONER (QSP), WHO SHALL BE HIRED AND DESIGNATED BY THE CONTRACTOR. THE DISTRICT WILL HIRE THE QUALIFIED SWPPP DEVELOPER (QSD).

TREE/PLANT PROTECTION NOTES:

1. PRIOR TO BEGINNING CONSTRUCTION ON SITE, CONTRACTOR SHALL IDENTIFY AND PROTECT EXISTING TREES AND PLANTS DESIGNATED AS TO REMAIN.
2. PROVIDE 6 FOOT TALL TREE PROTECTION FENCE WITH DISTINCTIVE MARKING VISIBLE TO CONSTRUCTION EQUIPMENT, ENCLOSING DRIP LINES OF TREES DESIGNATED TO REMAIN.
3. WORK REQUIRED WITHIN FENCE LINE SHALL BE HELD TO A MINIMUM, AVOID UNNECESSARY MOVEMENT OF HEAVY EQUIPMENT WITHIN FENCED AREA AND DO NOT PARK VEHICLES WITH IDLE RUNNING ENGINES UNDER DRIP LINE OF TREES.
4. PRIOR TO REMOVING ROOTS AND BRANCHES LARGER THAN 2" IN DIAMETER OF TREES OR PLANTS THAT ARE TO REMAIN, CONSULT WITH THE LANDSCAPE ARCHITECT PROJECT MANAGER.
5. ANY GRADE CHANGES GREATER THAN 6" WITHIN THE DRIPLINE OF EXISTING TREES SHALL NOT BE MADE WITHOUT FIRST CONSULTING THE LANDSCAPE ARCHITECT/CIVIL ENGINEER.
6. PROTECT EXISTING TREES TO REMAIN FROM SPILLED CHEMICALS, FUEL OIL, MOTOR OIL, GASOLINE AND ALL OTHER CHEMICALLY INJURIOUS MATERIAL; AS WELL AS FROM PUDDLING OR CONTINUOUSLY RUNNING WATER. SHOULD A SPILL OCCUR, STOP WORK IN THAT AREA AND CONTACT THE COLLEGE DISTRICT/INSPECTOR IMMEDIATELY. CONTRACTOR SHALL BE RESPONSIBLE TO MITIGATE DAMAGE FROM SPILLED MATERIAL AS WELL AS MATERIAL CLEAN UP.
7. PROVIDE TEMPORARY IRRIGATION TO ALL TREES AND PLANTS THAT ARE IN OR ADJACENT TO CONSTRUCTION AREAS WHERE EXISTING IRRIGATION SYSTEMS MAY BE AFFECTED BY THE CONSTRUCTION. ALSO PROVIDE TEMPORARY IRRIGATION TO RELOCATED TREES.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR ONGOING MAINTENANCE OF ALL TREES DESIGNATED TO REMAIN AND FOR MAINTENANCE OF RELOCATED TREES STOCKPILED DURING CONSTRUCTION. CONTRACTOR WILL BE REQUIRED TO REPLACE TREES THAT DIE DUE TO LACK OF MAINTENANCE.

FIRE PROTECTION NOTES:

1. APPROVED DRAWINGS SHALL BE OBTAINED FROM THE LOCAL FIRE MARSHAL, THE RATING AGENCY AND THE DISTRICT, ALLOWING TIME FOR REVIEW AND ACCEPTANCE, PRIOR TO START OF WORK.
2. THE UNDERGROUND FIRE PROTECTION SYSTEM INSTALLER SHALL OBTAIN ALL APPROVED PLANS AND PERMITS PRIOR TO ORDERING MATERIALS, FABRICATING SYSTEMS OR ANY INSTALLATION.
3. GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS AND EQUIPMENT LOCATIONS. RISER LOCATIONS ARE SHOWN ON ARCHITECTURAL AND PLUMBING DRAWINGS AND ARE TO BE COORDINATED WITH ACTUAL FIELD CONDITIONS.
4. INSTALL MONITORED TAMPER SWITCHES AT ALL PIV'S AND VALVES ON BACKFLOW ASSEMBLIES.
5. ALL FIRE WATER LINES SHALL BE INSTALLED WITH 30" MINIMUM COVER.
6. PER CFC CHAPTER 33, FIRE DISTRICT APPROVED ACCESS AND WATER SUPPLY MUST BE INSTALLED AND IN PLACE BEFORE AND COMBUSTIBLE MATERIALS ARE PLACED AT THE CONSTRUCTION SITE.
7. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR APPROVAL FOR ANY CHANGES TO THE FIRE PROTECTION LINE AND FOR CONTINUATION OF THE FIRE PROTECTION LINE BEYOND THE CIVIL POINT OF TERMINATION.

PAVEMENT SECTION:

1. ASPHALT SECTION PER GEOTECHNICAL ENGINEERING REPORT FOR THE 2021 CYPRESS COLLEGE TECH ED III BUILDING RENOVATION PROJECT BY GEOTECHICAL SOLUTIONS, INC, PAGE 39 OF REPORT.

GENERAL UTILITY SYSTEM NOTES:

1. ALL TRENCHES SHALL BE BACK FILLED PER THE SPECIFICATIONS WITH APPROPRIATE TESTS BY THE GEOTECHNICAL ENGINEER TO VERIFY COMPACTION VALUES.
2. CLEAN OUTS, CATCH BASINS AND AREA DRAINS ARE TO BE ACCURATELY LOCATED BY THEIR RELATIONSHIP TO THE BUILDING, FLATWORK, ROOF DRAINS, AND/OR CURB LAYOUT, NOT BY THE LENGTH OF PIPE SPECIFIED IN THE DRAWINGS (WHICH IS APPROXIMATE).
3. CONTRACTOR SHALL STAKE LOCATION OF ABOVE GROUND UTILITY EQUIPMENT (BACKFLOW PREVENTOR, SATELLITE DISH, TRANSFORMER, GAS METER, ETC.) AND MEET WITH OWNER TO REVIEW LOCATION PRIOR TO INSTALLATION. PLANNING DEPARTMENT MUST SPECIFICALLY AGREE WITH LOCATION PRIOR TO PROCEEDING WITH THE INSTALLATION.
4. CONTRACTOR SHALL PREPARE AN ACCURATE COMPOSITE UTILITY PLAN THAT TAKES INTO ACCOUNT THE ACTUAL LOCATION OF EXISTING UTILITIES AS DETERMINED DURING THE DEMOLITION WORK, THE UTILITIES SHOWN ON THE CIVIL DRAWINGS, AND THE SITE POWER, CONDUITS AND LIGHTING SHOWN ON THE ELECTRICAL PLANS. THE FIRE SPRINKLER SYSTEM SHALL BE INCLUDED AS DESIGNED BY THE DESIGN UNDERGROUND FIRE SPRINKLER CONTRACTOR.
5. CATHODIC PROTECTION MAY BE REQUIRED ON ALL METALLIC FITTINGS AND ASSEMBLIES THAT ARE IN CONTACT WITH THE SOIL, IF RECOMMENDED BY THE GEOTECHNICAL REPORT. CONTRACTOR IS RESPONSIBLE TO FULLY ENGINEER AND INSTALL THIS SYSTEM AND COORDINATE ANODE AND TEST STATION LOCATIONS WITH OWNER'S PROJECT MANAGER.
6. COMPLETE SYSTEMS: ALL UTILITY SYSTEMS ARE DELINEATED IN A SCHEMATIC MANNER ON THESE PLANS. CONTRACTOR IS TO PROVIDE ALL FITTINGS, ACCESSORIES AND WORK NECESSARY TO COMPLETE THE UTILITY SYSTEM SO THAT IT IS FULLY FUNCTIONING FOR THE PURPOSE INTENDED.
7. UNDERGROUND UTILITIES OR STRUCTURES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS AND EXTENT BASED UPON RECORD INFORMATION. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. THE OWNER, BY ACCEPTING THESE PLANS OR PROCEEDING WITH IMPROVEMENTS PURSUANT THERETO, AGREES TO ASSUME LIABILITY AND TO HOLD UNDERSIGNED HARMLESS FOR ANY DAMAGES RESULTING FROM THE EXISTENCE OF UNDERGROUND UTILITIES OR STRUCTURES NOT REPORTED TO THE UNDERSIGNED; NOT INDICATED ON THE PUBLIC RECORDS EXAMINED, LOCATED AT VARIANCE WITH THOSE REPORTED OR SHOWN ON RECORDS EXAMINED.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL UTILITIES FROM DAMAGE DURING COMPACTION OF ROADWAY SUBGRADE AND PRIOR TO PLACEMENT OF FINAL PAVEMENT SECTIONS.
9. CONTRACTOR SHALL VERIFY ALL EXISTING INVERT ELEVATIONS FOR STORM DRAIN AND SANITARY SEWER CONSTRUCTION PRIOR TO COMMENCEMENT OF ANY WORK. ALL WORK FOR STORM AND SANITARY SEWER INSTALLATION SHALL BEGIN AT THE DOWNSTREAM CONNECTION POINT. THIS WILL ALLOW FOR ANY NECESSARY ADJUSTMENTS TO BE MADE PRIOR TO THE INSTALLATION OF THE ENTIRE LINE. IF THE CONTRACTOR FAILS TO BEGIN AT THE DOWNSTREAM CONNECTION POINT AND WORKS UP STREAM, HE SHALL PROCEED AT HIS OWN RISK AND BE RESPONSIBLE FOR ANY ADJUSTMENTS NECESSARY. CONTRACTOR SHALL VERIFY LOCATION OF SANITARY SEWER LATERAL WITH OWNER PRIOR TO CONSTRUCTION.
10. EXISTING UTILITY CROSSINGS OF NEW PIPELINE ARE SHOWN ACCORDING TO THE BEST AVAILABLE INFORMATION. GAS, WATER AND SEWER SERVICE LATERALS ARE SHOWN ACCORDING TO THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY THE TYPE, SIZE, LOCATION AND DEPTH OF ALL THE UTILITY CROSSING (BOTH MAINS AND LATERALS) ARE CORRECT AS SHOWN. NO GUARANTEE IS MADE THAT ALL EXISTING UTILITIES (BOTH MAINS AND LATERALS) ARE SHOWN. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN EXCAVATING AND SHALL PROTECT ALL EXISTING UTILITIES (BOTH MAINS AND LATERALS) FROM DAMAGE DUE TO HIS OPERATION.
11. CONTRACTOR SHALL UNCOVER AND EXPOSE ALL EXISTING UTILITY AND SEWER LINES WHERE THEY ARE TO BE CROSSED ABOVE OR BELOW BY THE NEW FACILITY BEING CONSTRUCTED IN ORDER TO VERIFY THE GRADE AND TO ASSURE THAT THERE IS SUFFICIENT CLEARANCE.
12. VERTICAL SEPARATION REQUIREMENTS:

    A MINIMUM OF SIX (6) INCHES VERTICAL CLEARANCE SHALL BE PROVIDED BETWEEN CROSSING UTILITY PIPES, EXCEPT THAT THE MINIMUM VERTICAL CLEARANCE BETWEEN WATER AND SANITARY SEWER PIPELINES SHALL BE 12 INCHES AND ALL NEW WATER PIPES SHALL BE TYPICALLY INSTALLED TO CROSS ABOVE/OVER EXISTING SANITARY SEWER PIPELINES.

    WHERE NEW WATER PIPELINES ARE REQUIRED TO CROSS UNDER EXISTING AND/OR NEW SANITARY SEWER PIPELINES, THE MINIMUM VERTICAL SEPARATION SHALL BE 12 INCHES. WATER LINE PIPE ENDS SHALL BE INSTALLED NO CLOSER THAN 10' MINIMUM HORIZONTAL DISTANCE FROM CENTERLINE OF UTILITY CROSSINGS, WHERE FEASIBLE.
13. HORIZONTAL SEPARATION REQUIREMENTS:

    A MINIMUM HORIZONTAL SEPARATION BETWEEN NEW PIPELINES AND ANY EXISTING UTILITIES SHALL BE 5' FEET, EXCEPT THAT THE MINIMUM HORIZONTAL SEPARATION FOR WATER AND SANITARY SEWER PIPELINES SHALL BE 10' MINIMUM, UNLESS OTHERWISE NOTED.

    A MINIMUM HORIZONTAL SEPARATION BETWEEN NEW PIPELINES AND JOINT TRENCH SHALL BE 5 FEET.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING APPROPRIATE UTILITIES AND REQUESTING VERIFICATION OF SERVICE POINTS, FIELD VERIFICATION OF LOCATION, SIZE, DEPTH, ETC. FOR ALL THEIR FACILITIES AND TO COORDINATE WORK SCHEDULES.

SITE MAINTENANCE (BY CONTRACTOR):

1. GATHER ALL CONSTRUCTION DEBRIS ON A REGULAR BASIS AND PLACE IT IN A DUMPSTER OR OTHER CONTAINER WHICH IS EMPTIED OR REMOVED ON A REGULAR BASIS. WHEN APPROPRIATE, USE TARPS ON THE GROUND TO COLLECT FALLEN DEBRIS OR SPLATTERS THAT COULD CONTRIBUTE TO STORM WATER RUNOFF POLLUTION.
2. REMOVE ALL DIRT, GRAVEL, RUBBISH, REFUSE, AND GREEN WASTE FROM STREET PAVEMENT AND STORM DRAINS ADJOINING THE SITE. LIMIT CONSTRUCTION ACCESS ROUTES ONTO THE SITE AND PLACE GRAVEL PADS AT THESE LOCATIONS. DO NOT DRIVE VEHICLES AND EQUIPMENT OFF THE PAVED OR GRAVELED AREAS DURING WET WEATHER.
3. SWEEP OR VACUUM THE STREET PAVEMENT AND SIDEWALKS ADJOINING THE PROJECT SITE AND THE ON–SITE PAVED AREAS ON A DAILY BASIS. SCRAPE CAKED–ON MUD AND DIRT FROM THESE AREAS BEFORE SWEEPING. CORNERS AND HARD TO REACH AREAS SHALL BE SWEPT MANUALLY.
4. IF THE STREETS, SIDEWALKS AND/OR PARKING LOT ARE PRESSURE WASHED, DEBRIS MUST BE TRAPPED AND COLLECTED TO PREVENT ENTRY INTO THE STORM DRAIN SYSTEM. NO CLEANING AGENT MAY BE DISCHARGED INTO THE STORM DRAIN. IF ANY CLEANING AGENT OR DEGREASER IS USED, WASH WATER MUST BE COLLECTED AND DISCHARGED TO THE SANITARY SEWER, SUBJECT TO THE APPROVAL OF THE PROJECT MANAGER, OR OTHERWISE DISPOSED OF THROUGH APPROVED DISPOSAL METHODS.
5. CREATE A CONTAINED AND COVERED AREA ON THE SITE FOR THE STORAGE OF BAGS, CEMENT, PAINTS, OILS, FERTILIZERS, PESTICIDES, OR OTHER MATERIALS USED ON THE SITE THAT HAVE THE POTENTIAL OF BEING DISCHARGED INTO THE STORM DRAIN SYSTEM THROUGH EITHER BEING WIND–BLOWN OR IN THE EVENT OF A MATERIAL SPILL.
6. NEVER CLEAN MACHINERY, EQUIPMENT OR TOOLS INTO A STREET, GUTTER OR STORM DRAIN.
7. ENSURE THAT CEMENT TRUCKS, PAINTERS, OR STUCCO/PLASTER FINISHING CONTRACTORS DO NOT DISCHARGE WASH WATER FROM EQUIPMENT, TOOLS OR RINSE CONTAINERS INTO GUTTERS OR DRAINS.
8. UPON PROJECT COMPLETION THE OWNER SHALL BE SOLELY RESPONSIBLE TO ROUTINELY INSPECT AND MAINTAIN ALL ON–SITE STORM DRAIN FACILITIES. STORM DRAIN SYSTEM SHALL BE CLEANED AND/OR FLUSHED ON A BIANNUAL BASIS OR AS FOUND NECESSARY.
9. PREVENT DUST FROM LEAVING THE SITE AND ACCUMULATING ON ADJACENT AREAS AS REQUIRED IN THE DUST CONTROL NOTES ON THIS SHEET.
10. PREVENT SEDIMENT LADEN STORM RUN–OFF FROM LEAVING THE SITE OR ENTERING STORM DRAIN OR SANITARY SEWER SYSTEMS AS REQUIRED IN THE EROSION AND SEDIMENTATION CONTROL NOTES ON THIS SHEET.
11. MAINTAIN EXISTING TREES AND PLANTS THAT ARE TO REMAIN AS REQUIRED BY THE TREE AND PLANT PROTECTION NOTES ON THIS SHEET.

NOTES FOR UNDERGROUND PIPING FOR PRIVATE HYDRANTS AND SPRINKLERS:

1. PRIOR TO INSTALLATION, ALL PLANS AND SPECIFICATIONS SHALL BE APPROVED BY DSA, REFER TO DSA IR A–25 FOR DESIGN, INSTALLATION AND MAINTENANCE GENERAL REQUIREMENTS.
2. INSPECTIONS ARE REQUIRED: 1) PRIOR TO POURING THRUST BLOCKS, 2) FOR HYDROSTATIC TESTING, AND 3) FOR FLUSH.
3. INSTALLATION, INSPECTION, AND TESTING SHALL CONFORM TO 2016 EDITIONS CFC, NFPA 13 AND NFPA 24.
4. PRIVATE FIRE HYDRANTS SHALL BE APPROVED WET BARREL STYLE WITH A MINIMUM OF ONE 2 1/2" AND ONE 4" OUTLET. THE 4" OUTLET SHALL FACE THE FIRE DEPARTMENT ACCESS ROAD. ALL OUTLET THREADS SHALL HAVE NHS EXTERNAL THREADS FOR THE SIZE OUTLET(S) SUPPLIED AS SPECIFIED IN NFPA 1963. NFPA 24, 7.1.2.
5. FIRE HYDRANT SUPPLY PIPING SHALL BE A MINIMUM OF SIX INCHES IN DIAMETER. THE CENTER OF THE HOSE OUTLET SHALL BE NOT LESS THAN 18" ABOVE FINAL GRADE OR, WHERE LOCATED IN A HOSE HOUSE, 12" ABOVE THE FLOOR. NFPA 24, 7.3.3 & 7.3.3.2.
6. FIRE HYDRANTS SHALL BE A MINIMUM OF 40 FEET FROM ALL STRUCTURES. NFPA 24, 7.2.3., UNLESS OTHERWISE APPROVED BY LOCAL FIRE DEPARTMENT.
7. A KEYED GATE VALVE SHALL BE PROVIDED FOR EACH HYDRANT IN AN ACCESSIBLE LOCATION. VALVES SHALL NOT BE LOCATED IN PARKING STALLS. NFPA 24. 7.1.1.2.1.1.
8. ALL PIPING SHALL BE LISTED FOR USE IN FIRE PROTECTION SERVICE AND COMPLY WITH AWWA STANDARDS (CLASS 150 MINIMUM) CLASS 200 PIPE SHALL BE USED WHERE THE PRESSURE MAY EXCEED 150 PSI. NFPA 24, 10.1.1.
9. ALL BOLTED JOINTS SHALL BE CLEANED AND THOROUGHLY COATED WITH ASPHALT OR OTHER CORROSION RETARDING MATERIAL AFTER INSTALLATION. NFPA 24, 10.4.1.1.
10. BACKFILL SHALL BE WELL TAMPED LAYERS TO CONSIST OF 6" MINIMUM BED OF CLEAN FILL SAND OR PEA GRAVEL BELOW AND 12" ABOVE THE PIPE (TOTAL 18" MINIMUM). NFPA 24, 10.9.1.
11. FITTINGS SHALL BE OF AN APPROVED TYPE. NFPA 24, 10.2.1.
12. A MINIMUM OF 30" OF COVER, FROM FINISH GRADE TO THE TOP OF THE PIPE, SHALL BE PROVIDED. WHEN INSTALLED UNDER DRIVEWAYS AND ROADWAYS, A MINIMUM OF 36" COVER SHALL BE PROVIDED. NFPA 24, 10.4.2.2.2 &.3.
13. THRUST BLOCKS, OR OTHER APPROVED METHOD OF THRUST RESTRAINT, SHALL BE PROVIDED WHEREVER PIPE CHANGES DIRECTION. BACK–FILL BETWEEN THE JOINTS TO PREVENT MOVEMENT OF THE PIPE. PROVIDE DETAILS AND CALCULATIONS FOR SIZING THRUST BLOCKS BASE ON ACTUAL SOIL CONDITIONS. NFPA 24, 10.6.
14. A HYDROSTATIC TEST (200 PSI FOR TWO HOURS OR 50 PSI OVER MAXIMUM STATIC PRESSURE, WHICHEVER IS GREATER) SHALL BE PERFORMED. NFPA 24, 10.10.2.2.1.
15. THE SYSTEM SHALL BE THOROUGHLY FLUSHED BEFORE CONNECTION IS MADE TO OVERHEAD PIPING. FLOW SHALL BE THROUGH A MINIMUM OF 4" HOSE OF PIPE. NFPA 24, 10.10.2.1.
16. ALL CONTROL VALVES SHALL BE MONITORED. CBC/CFC 903.4.
17. ALL CONTROL VALVES SHALL BE LISTED INDICATING TYPE UNLESS A NON–INDICATING VALVE, SUCH AS AN UNDERGROUND GATE VALVE WITH APPROVED ROADWAY BOX COMPLETE WITH T–WRENCH, IS ACCEPTABLE TO AUTHORITY HAVING JURISDICTION (AHJ). NFPA 24, 6.1.1.
18. POST INDICATING VALVES (PIV) SHALL BE TESTED TO INSURE THAT THE "TARGETS" (OPEN, CLOSED) ARE CLEARLY IDENTIFIED WHEN VALVE IS OPENED AND CLOSED. NFPA 24, 10.10.1 & 14.1.
19. TESTS SHALL BE MADE BY THE INSTALLING CONTRACTOR IN THE PRESENCE OF THE (AHJ). PROVIDE A COMPLETED CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR UNDERGROUND PIPING TO DSA. NFPA 24, 10.10.1 & 14.1, CFC 901.5 & 6.

NPDES REQUIREMENTS (BY CONTRACTOR):

1. ALL CONSTRUCTION ON OFF–SITE OR ON–SITE IMPROVEMENTS SHALL ADHERE TO NPDES (NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM) BEST MANAGEMENT PRACTICES TO PREVENT DELETERIOUS MATERIALS OR POLLUTANTS FROM ENTERING THE CITY OR COUNTY STORM DRAIN SYSTEMS.
2. ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ON SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES, OR WIND.
3. STOCKPILES OF EARTH AND OTHER CONSTRUCTION RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND OR WATER.
4. FUELS, OILS, SOLVENTS, AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND ARE NOT TO CONTAMINATE THE SOIL AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER. SPILLS MAY NOT BE WASHED INTO THE DRAINAGE SYSTEM.
5. EXCESS OR WASTE CONCRETE MAY NOT BE WASHED INTO THE PUBLIC RIGHT–OF–WAY OR ANY OTHER DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTES ON SITE UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTE.
6. TRASH AND CONSTRUCTION RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION AND DISPERSAL BY WIND.
7. SEDIMENTS AND OTHER 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 RIGHT–OF–WAY. ACCIDENTAL DEPOSITIONS MUST BE SWEPT UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS.
8. ANY SLOPES WITH DISTURBED SOILS OR DENUDED OF VEGETATION MUST BE STABILIZED SO AS TO INHIBIT EROSION BY WIND AND WATER.
9. CLEAN UP ALL SPILLS USING DRY METHODS.
10. SWEEP ALL GUTTERS AT THE END OF EACH WORKING DAY. GUTTERS SHALL BE KEPT CLEAN AFTER LEAVING CONSTRUCTION SITE.
11. CALL 911 IN CASE OF A HAZARDOUS SPILL.
12. BMP'S AS OUTLINED IN, BUT NOT LIMITED TO, CALIFORNIA STORMWATER QUALITY ASSOCIATION CONSTRUCTION HANDBOOK, AUGUST 2011, OR THE LATEST REVISED EDITION, MAY APPLY DURING THE CONSTRUCTION OF THIS PROJECT (ADDITIONAL MEASURES MAY BE REQUIRED IF DEEMED APPROPRIATE BY CITY INSPECTORS).
13. UPON SATISFACTORY COMPLETION OF THE WORK, THE ENTIRE WORK SITE SHALL BE CLEANED BY THE CONTRACTOR AND LEFT WITH A SMOOTH AND NEATLY GRADED SURFACE FREE OF CONSTRUCTION WASTE, RUBBISH, AND DEBRIS OF ANY NATURE.

SITE FENCE NOTES:

1. CONTRACTOR SHALL PROVIDE A CONSTRUCTION FENCE AROUND THE ENTIRE AREA OF DEMOLITION AND CONSTRUCTION, INCLUDING ALL STAGING, STORAGE, CONSTRUCTION OFFICE AND LAYDOWN AREAS.
2. CONSTRUCTION FENCE SHALL BE A MINIMUM OF A 6' HIGH GALVANIZED CHAIN LINK WITH GREEN WINDSCREEN FABRIC ON THE OUTSIDE OF THE FENCE.
3. CONTRACTOR MAY BE REQUIRED TO PROVIDE ADDITIONAL FENCING, BARRICADES OR OTHER SAFETY DEVICES TO KEEP THE SITE SECURE AND SAFE.
4. COORDINATE WITH OWNER FOR GATE/FENCE LOCATIONS AND WITH LOCAL FIRE DEPARTMENT FOR ACCESS TO THE JOBSITE DURING CONSTRUCTION.

DUST CONTROL (BY CONTRACTOR):

1. WATER TRUCKS SHALL BE PRESENT AND IN USE AT THE CONSTRUCTION SITE. ALL PORTIONS OF THE SITE SUBJECT TO BLOWING DUST SHALL BE WATERED AS OFTEN AS DEEMED NECESSARY BY THE OWNER/INSPECTOR IN ORDER TO INSURE PROPER CONTROL OF BLOWING DUST FOR THE DURATION OF THE PROJECT.
2. WATERING ASSOCIATED WITH ON–SITE CONSTRUCTION ACTIVITY SHALL TAKE PLACE BETWEEN THE HOURS OF 8:00 AM AND 7:00 PM AND SHALL INCLUDE AT LEAST ONE LATE–AFTERNOON WATERING TO MINIMIZE THE EFFECTS OF BLOWING DUST.
3. ALL PUBLIC STREETS AND MEDIANS SOILED OR LITTERED DUE TO THIS CONSTRUCTION ACTIVITY SHALL BE CLEANED AND SWEPT ON A DAILY BASIS DURING THE WORK WEEK, OR AS OFTEN AS DEEMED NECESSARY BY THE OWNER/INSPECTOR, OR TO THE SATISFACTION OF THE CITY'S DEPARTMENT OF PUBLIC WORKS.
4. WATERING ON PUBLIC STREETS OR POWER WASHING SEDIMENTATION ON STREETS SHALL NOT OCCUR, UNLESS CONTRACTOR COLLECTS AND FILTERS THE WASH WATER PRIOR TO ITS ENTERING THE CITY'S STORM DRAIN SYSTEM.
5. ON–SITE PAVED ACCESS ROADS, PARKING AREAS, AND STAGING AREAS SHALL BE SWEPT DAILY WITH A WATER SWEEPER.
6. ALL TRUCKS HAULING SOIL, SAND, AND OTHER LOOSE MATERIALS SHALL BE COVERED WITH TARPAULINS OR OTHER EFFECTIVE COVERS.
7. THE SPEED OF ALL VEHICLES DRIVING ON UNPAVED ROADS OR PORTIONS OF THE SITE SHALL BE LIMITED TO 15 MPH.
8. WHEEL WASHERS SHALL BE INSTALLED AND USED TO CLEAN ALL TRUCKS AND EQUIPMENT LEAVING THE CONSTRUCTION SITE. IF WHEEL WASHERS CANNOT BE INSTALLED, TIRES OR TRACKS OF ALL TRUCKS AND EQUIPMENT SHALL BE WASHED OFF BEFORE LEAVING THE CONSTRUCTION SITE.
9. THE CONTRACTOR SHALL DEMONSTRATE DUST SUPPRESSION MEASURES, SUCH AS REGULAR WATERING, WHICH SHALL BE IMPLEMENTED TO REDUCE EMISSIONS DURING CONSTRUCTION AND GRADING IN A MANNER MEETING THE APPROVAL OF THE CONSTRUCTION MANAGER. THIS SHALL ASSIST IN REDUCING SHORT–TERM IMPACTS FROM PARTICLES WHICH COULD RESULT IN NUISANCES THAT ARE PROHIBITED BY RULE 403 (FUGITIVE DUST).
10. GRADING OR ANY OTHER OPERATIONS THAT CREATES DUST SHALL BE STOPPED IMMEDIATELY IF DUST AFFECTS ADJACENT PROPERTIES. THE CONTRACTOR SHALL PROVIDE SUFFICIENT DUST CONTROL FOR THE ENTIRE PROJECT SITE IN ACCORDANCE WITH THE PROJECT SWPPP AT ALL TIMES. THE SITE SHALL BE SPRINKLERED AS NECESSARY TO PREVENT DUST NUISANCE. IN THE EVENT THAT THE CONTRACTOR NEGLECTS TO USE ADEQUATE MEASURES TO CONTROL DUST, THE OWNER RESERVES THE RIGHT TO TAKE WHATEVER MEASURES ARE NECESSARY TO CONTROL DUST AND CHARGE THE COST TO THE CONTRACTOR.
11. THE CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL MEASURES AND FOR OBTAINING ALL REQUIRED PERMITS AND APPROVALS. ALL GRADING OPERATIONS SHALL BE SUSPENDED DURING SECOND (OR WORSE) STAGE SMOG ALERTS.

VICINITY MAP

SCALE: N.T.S.

ABBREVIATIONS:

AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
ACU	AIR CONDITIONING UNIT
ADJ	ADJUST
AI	AREA INLET
APN	ASSESSOR'S PARCEL NUMBER
BCR	BEGIN CURB RETURN
BFP	BACKFLOW PREVENTER
BLDG	BUILDING
BOS	BOTTOM OF STAIR
BOT	BOTTOM
BW	BOTTOM OF WALL
CB	CATCH BASIN
CF	CURB FACE
CL	CLASS
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
COC	CITY OF CYPRESS
COL	COLUMN
COMM	TELECOMMUNICATION
CONC	CONCRETE
CTRL	CONTROL
DEMO	DEMOLITION
DI	DRAINAGE INLET
DMA	DRAINAGE MANAGEMENT AREA
DW	DRIVEWAY
E	ELECTRIC
EB	ELECTRIC BOX
ECR	END CURB RETURN
EP	EDGE OF PAVEMENT
EPB	ELECTRIC PULLBOX
EX	EXISTING
FDC	FIRE DEPARTMENT CONNECTION
FF	FINISHED FLOOR
FG	FINISHED GRADE (EARTH)
FH	FIRE HYDRANT
FL	FLOWLINE
FS	FINISHED SURFACE (AC OR PCC)
FTN	FOUNTAIN
FVT	FIRE ALARM VAULT
GB	GRADE BREAK
GR	GRATE
HDPE	HIGH DENSITY POLYETHYLENE
HP	HIGH POINT
HYD	HYDRANT
IMP	INTEGRATED MANAGEMENT PRACTICE
INV	INVERT
IRR	IRRIGATION
ISA	INTERNATIONAL SYMBOL OF ACCESSIBILITY
LF	LINEAR FEET
LG	LIP OF GUTTER
LS	LANDSCAPING
MA	MATCH
MAX	MAXIMUM
MIN	MINIMUM
MTL	METAL
N.A.P.	NOT A PART
NTS	NOT TO SCALE
O.C.	ON CENTER
OG	ORIGINAL GRADE
PCC	PORTLAND CEMENT CONCRETE
PIV	POST INDICATOR VALVE
PL	PROPERTY LINE
PLNT	PLANTING
PR	PROPOSED
PVC	POLYVINYL CHLORIDE
RL	RIDGE LINE
S	SLOPE
SC	SAWCUT
SCE	SOUTHERN CALIFORNIA EDISON
SD	STORM DRAIN
SDCB	STORM DRAIN CATCH BASIN
SDCO	STORM DRAIN CLEANOUT
SDDI	STORM DRAIN DROP INLET
SDMH	STORM DRAIN MANHOLE
SDR	STANDARD DIMENSION RATIO
SLD	SEE LANDSCAPE DRAWINGS
SS	SANITARY SEWER
SSCO	SANITARY SEWER CLEANOUT
SSMH	SANITARY SEWER MANHOLE
STD	STANDARD
STLT	STREETLIGHT
SW	SIDEWALK
T	TELEPHONE
TB	TOP OF BERM
TC	TOP OF CURB
TG	TOP OF GRATE
TMH	TOP OF MANHOLE
TP	TOP OF PAVEMENT
TR	TREE
TV	CABLE TELEVISION
TW	TOP OF WALL
TYP	TYPICAL
UB	UTILITY BOX
UT	UTILITY
VLT	VAULT
W	WATER
WM	WATER METER

SHEET INDEX:

DSA STAMP

HPI architecture

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o: 949.675.6442

SEAL

AMMAR NAJI SARSAM
C-30902
12/31/2023
RENEWAL DATE

CONSULTANTS

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www.bkf.com

BRUCE W. KIRBY
No. C 42393
CIVIL

PROJECT TITLE

HRC TEMP RELOCATABLE
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9200 VALLEY VIEW ST.
CYPRESS, CA 90630

Cypress College

CYPRESS COMMUNITY COLLEGE
9200 VALLEY VIEW ST.
CYPRESS, CA 90630

ISSUED		
#	DATE	DESCRIPTION
	04/06/2023	DSA BACKCHECK SUBMITTAL

PROJECT IDENTIFICATION

THE DRAWINGS IN THE SHEET INDEX WERE ORIGINALLY CREATED IN AUTODESK REVIT V. 2018 UNLESS OTHERWISE NOTED.

THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42".

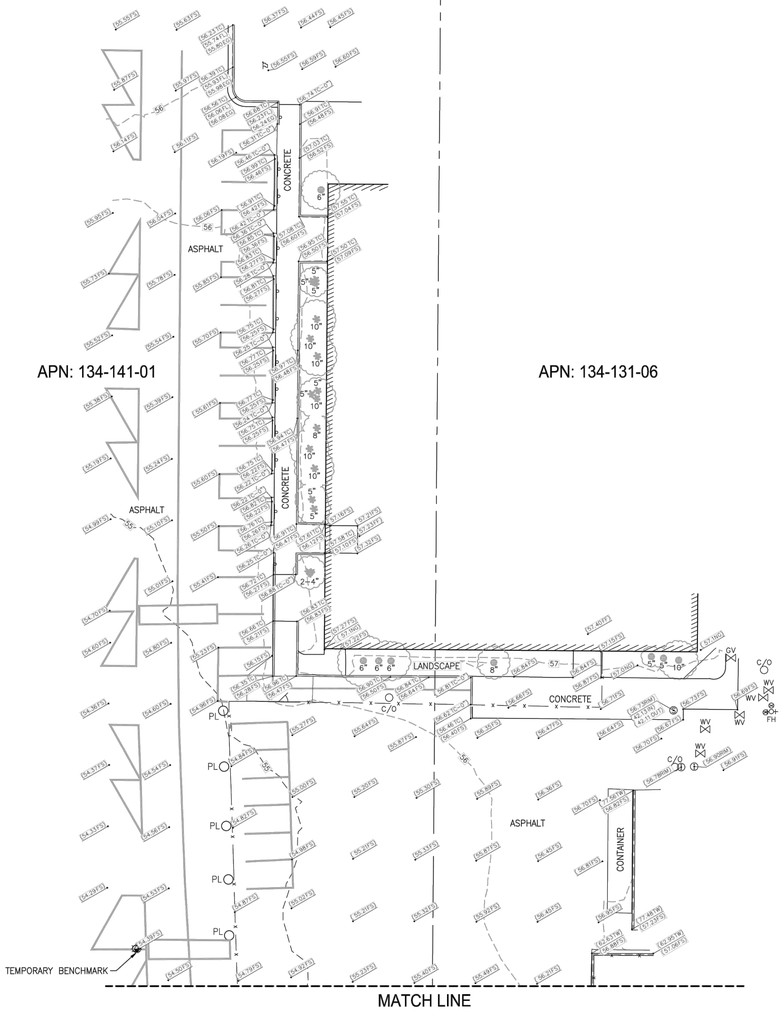
SHEET TITLE

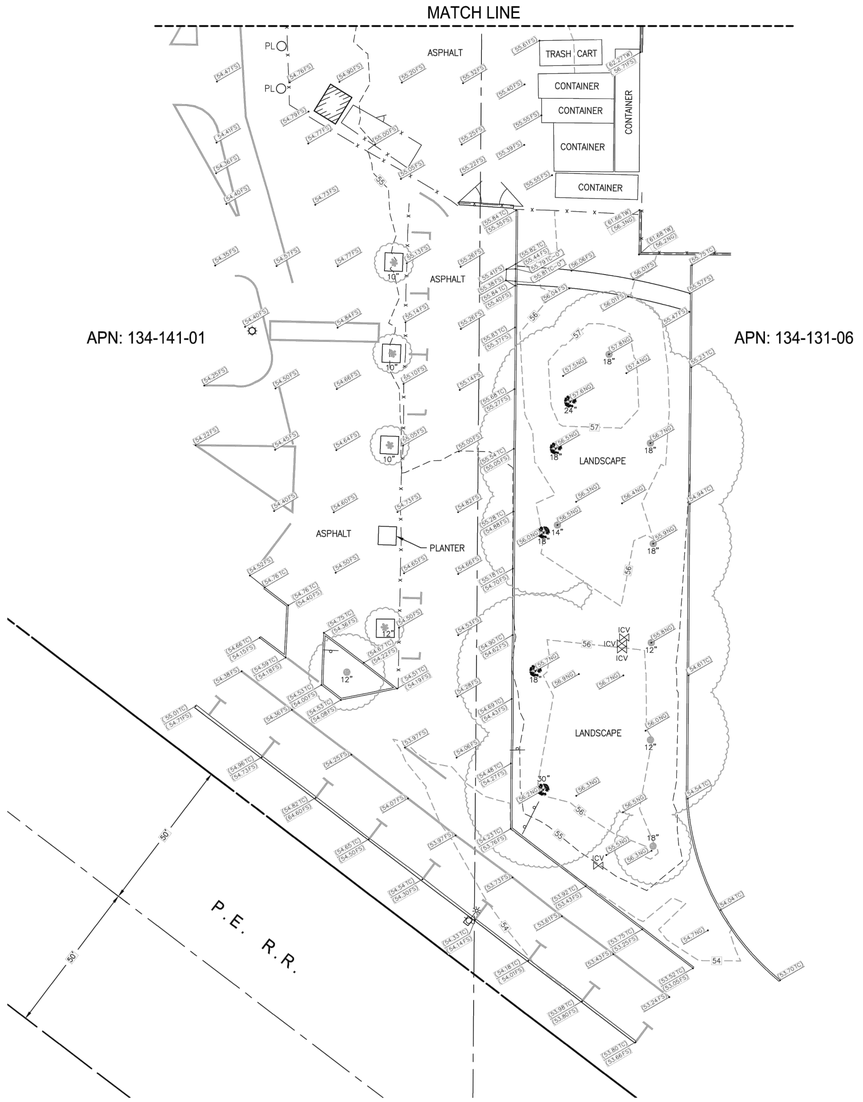
TITLE SHEET &
GENERAL NOTES

SHEET NUMBER

C0.0

DSA SUBMITTAL





LEGEND

- EUCALYPTUS TREE
- FIRE HYDRANT
- FLAG POLE
- GAS VALVE
- GUARD POST
- INTERCEPTOR MANHOLE
- IRRIGATION CONTROL VALVE
- LOT LIGHT
- PALM TREE CLUSTER
- PALM TREE
- PLANTER
- SEWER CLEANOUT
- SEWER MANHOLE
- SIGN
- STREET LIGHT
- TEMPORARY BENCHMARK
- TREE
- WATER VALVE

LINETYPES

- CENTERLINE
- CHAIN LINK FENCE
- DRIPLINE
- EDGE OF PAVEMENT
- PAINT STRIPE
- PROPERTY LINE
- WALL

ABBREVIATIONS

FF	FINISH FLOOR
FL	FLOW LINE
FS	FINISH SURFACE
EG	EDGE OF GUTTER
NG	NATURAL GROUND
TC	TOP OF CURB

NOTE:
NO BOUNDARY SURVEY WAS PERFORMED, BOUNDARY LINES SHOWN HEREON ARE BASED ON THE TOPOGRAPHIC SURVEY PREPARED BY PSOMAS AS PROJECT NO. 1NOR130100 T100, DATED JUNE 24, 2016.

TEMPORARY BENCHMARK:
ELEVATION = 56.23'
SET MAG NAIL IN CONCRETE LIGHT POLE BASE, 1.8' ABOVE ASPHALT SURFACE.

THIS SURVEY WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION

Aaron Tillmanns 04/29/2022

AARON P TILLMANNS
PLS 9584

PROFESSIONAL LAND SURVEYOR — AARON P. TILLMANNS — NO. 9584 — STATE OF CALIFORNIA

REVISIONS

NO.	DESCRIPTION	DATE
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-

BASIS OF BEARINGS:
THE BEARINGS SHOWN HEREON ARE BASED UPON THE CALIFORNIA COORDINATE SYSTEM OF 1983, CC83, ZONE 5, (2010.00) IN ACCORDANCE WITH THE CALIFORNIA PUBLIC RESOURCES CODE SECTIONS 8801-8819.

BENCHMARK:
ORANGE COUNTY BM # 1M-18-04
3 3\4" OCS ALUMINUM BENCHMARK DISK STAMPED "1M-18-04", SET IN THE NORTHWESTERLY CORNER OF A 1 FT. BY 4 FT. CONCRETE CATCH BASIN. MONUMENT IS LOCATED IN THE NORTHWESTERLY CORNER OF THE INTERSECTION OF KNOTT AVENUE AND LINCOLN AVENUE, 81 FT. WESTERLY OF THE CENTERLINE OF KNOTT AND 27 FT. NORTHERLY OF THE CENTERLINE OF LINCOLN. MONUMENT IS SET LEVEL WITH THE SIDEWALK.
ELEVATION = 64.260' (NAVD '88)

PREPARED FOR:
NORTH ORANGE COUNTY COMMUNITY COLLEGE DISTRICT

PREPARED BY:
Cannon
16842 VON KARMAN AVENUE SUITE 150
IRVINE, CALIFORNIA 92606 (949) 753-8111
Civil Engineering • Planning • Surveying

TOPOGRAPHIC SURVEY
CYPRESS COLLEGE

CHECKED BY: AT | DRAWN BY: AT | SCALE: 1" = 20' | DATE: 04/29/2022 | JOB# 220319

CYPRESS, CALIFORNIA SHEET 1 OF 1

DSA STAMP

HPI architecture
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Newport Beach, CA 92663
o: 949.675.6442

SEAL

LICENSED ARCHITECT — AMMAR NAJI SARSAM — C-30902 — 12/31/2023 RENEWAL DATE — STATE OF CALIFORNIA

CONSULTANTS

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SUITE 400
NEWPORT BEACH, CA 92660
(949) 526-8460
www.bkf.com

REGISTERED PROFESSIONAL ENGINEER — BRUCE W. RYDER — No. C 42393 — CIVIL — STATE OF CALIFORNIA

PROJECT TITLE

HRC TEMP RELOCATABLE CLASSROOM & RESTROOM
9200 VALLEY VIEW ST.
CYPRESS, CA 90630

Cypress College

CYPRESS COMMUNITY COLLEGE
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CYPRESS, CA 90630

ISSUED

#	DATE	DESCRIPTION
	04/06/2023	DSA BACKCHECK SUBMITTAL

PROJECT IDENTIFICATION

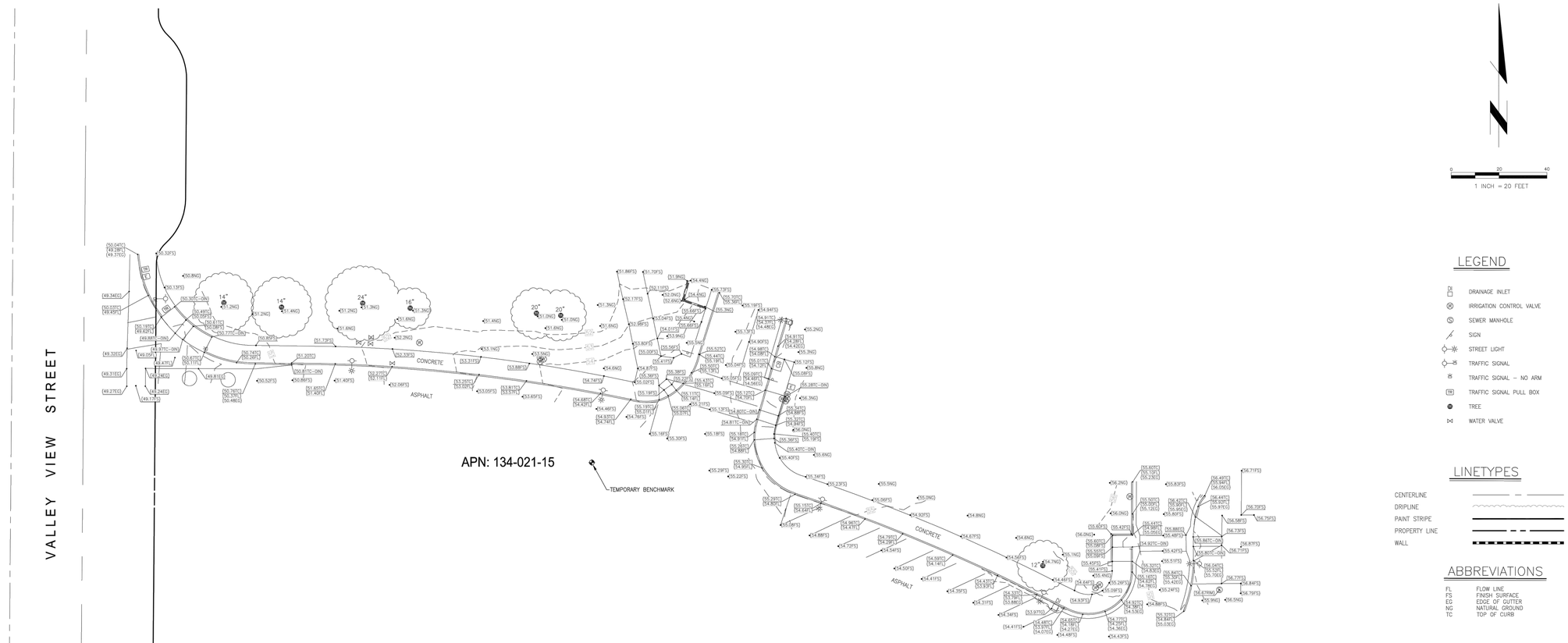
SHEET TITLE

EXISTING CONDITION (FOR REFERENCE)

SHEET NUMBER

C1.0

DSA SUBMITTAL



0 20 40

1 INCH = 20 FEET

LEGEND

- DRAINAGE INLET
- IRRIGATION CONTROL VALVE
- SEWER MANHOLE
- SIGN
- STREET LIGHT
- TRAFFIC SIGNAL
- TRAFFIC SIGNAL – NO ARM
- TRAFFIC SIGNAL PULL BOX
- TREE
- WATER VALVE

LINETYPES

- CENTERLINE
- DRIPLINE
- PAINT STRIPE
- PROPERTY LINE
- WALL

ABBREVIATIONS

FL	FLOW LINE
FS	FINISH SURFACE
EG	EDGE OF GUTTER
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NOTE:
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TEMPORARY BENCHMARK:
ELEVATION = 54.80'
SET MAG NAIL IN ASPHALT.

THIS SURVEY WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION

Aaron Tillmanns 03/08/2023

AARON P TILLMANNS
PLS 9584

PROFESSIONAL LAND SURVEYOR AARON P. TILLMANNS NO. 9584 STATE OF CALIFORNIA

REVISIONS

NO.	DESCRIPTION	DATE
1	–	–
2	–	–
3	–	–
4	–	–
5	–	–

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Civil Engineering • Planning • Surveying

TOPOGRAPHIC SURVEY
CYPRESS COLLEGE

CHECKED BY: AT	DRAWN BY: AT	SCALE: 1" = 20'	DATE: 03/07/2023	JOB# 230218

CYPRESS, CALIFORNIA SHEET 1 OF 1

DSA STAMP

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SEAL

LICENSED ARCHITECT AMMAR NAJI SARSAM C-30902 12/31/2023 RENEWAL DATE STATE OF CALIFORNIA

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THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42".

SHEET TITLE

EXISTING CONDITION (FOR REFERENCE)

SHEET NUMBER

C1.1

DSA SUBMITTAL

DEMOLITION LEGEND:

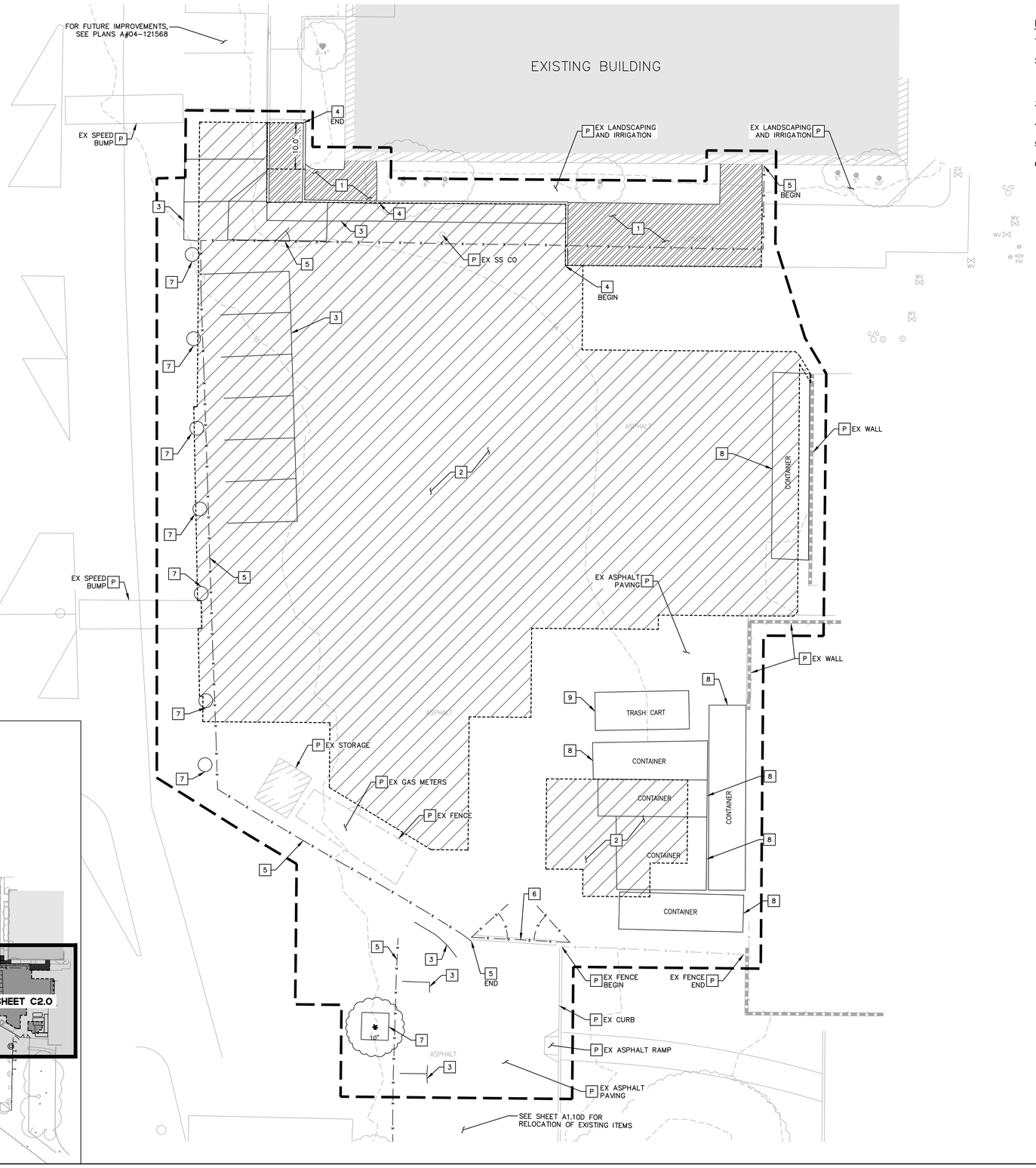
- DEMOLISH EXISTING CONCRETE WALKWAY
- DEMOLISH EXISTING AC PAVEMENT AND BASE TO SUBGRADE. REMOVE ANY FOOTINGS/BASES UNDER BOLLARDS, PARKING SIGNS, ETC.
- LIMIT OF WORK
- SAWCUT LINE

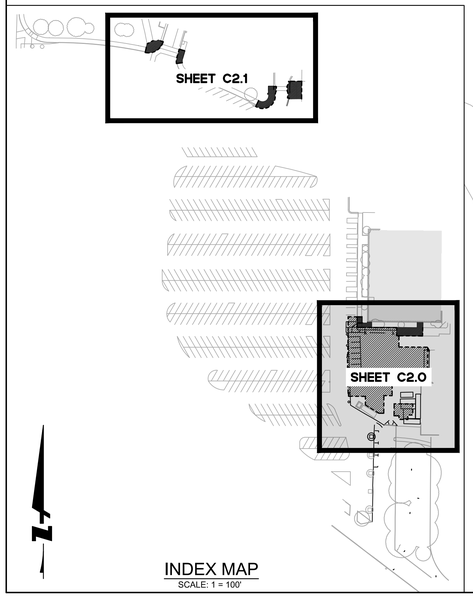
DEMOLITION KEYNOTES:

- P PROTECT IN PLACE, SEE DEMOLITION GENERAL NOTES 2 & 3
- 1 DEMOLISH EXISTING CONCRETE WALKWAY
- 2 DEMOLISH EXISTING ASPHALT
- 3 REMOVE EXISTING PAVEMENT STRIPING
- 4 REMOVE EXISTING CURB
- 5 REMOVE EXISTING CHAIN LINK FENCE PER ARCHITECTURAL PLANS
- 6 REMOVE EXISTING CHAIN LINK FENCE GATE PER ARCHITECTURAL PLANS
- 7 REMOVE & RETURN EXISTING PLANTERS TO COLLEGE
- 8 REMOVE & RELOCATE EXISTING CONTAINER PER ARCHITECTURAL PLANS, SHEET A1.10D
- 9 REMOVE & RELOCATE EXISTING TRASH CART PER ARCHITECTURAL PLANS, SHEET A1.10D

DEMOLITION GENERAL NOTES:

1. PROTECT ALL EXISTING UNDERGROUND UTILITIES UNLESS OTHERWISE NOTED ON THE PLAN.
2. UTILITIES SHOWN ON THIS PLAN ARE DERIVED FROM RECORD DATA, SURFACE OBSERVATION, AND FIELD SURVEY. ACTUAL LOCATIONS AND SIZE, TOGETHER WITH THE PRESENCE OF ANY ADDITIONAL UTILITIES NOT SHOWN ON THIS PLAN, SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING DEMOLITION ACTIVITIES.
3. REFER TO CIVIL GRADING PLAN FOR LIMITS OF IMPROVEMENT PRIOR TO COMMENCING DEMOLITION ACTIVITIES.
4. PROTECT ALL OFFSITE FEATURES NOT EXPRESSLY NOTED FOR DEMOLITION OR IMPROVEMENT ON THIS PLAN.
5. PROTECT IN PLACE ALL EXISTING TREES AND ROOT BALLS WITHIN THE LIMITS OF WORK UNLESS OTHERWISE NOTED ON PLAN.
6. CONTRACTOR SHALL SAWCUT TO THE NEAREST SCORE.





INDEX MAP
SCALE: 1 = 100'

GRAPHIC SCALE
10 0 10 20
1" = 10"

DSA STAMP

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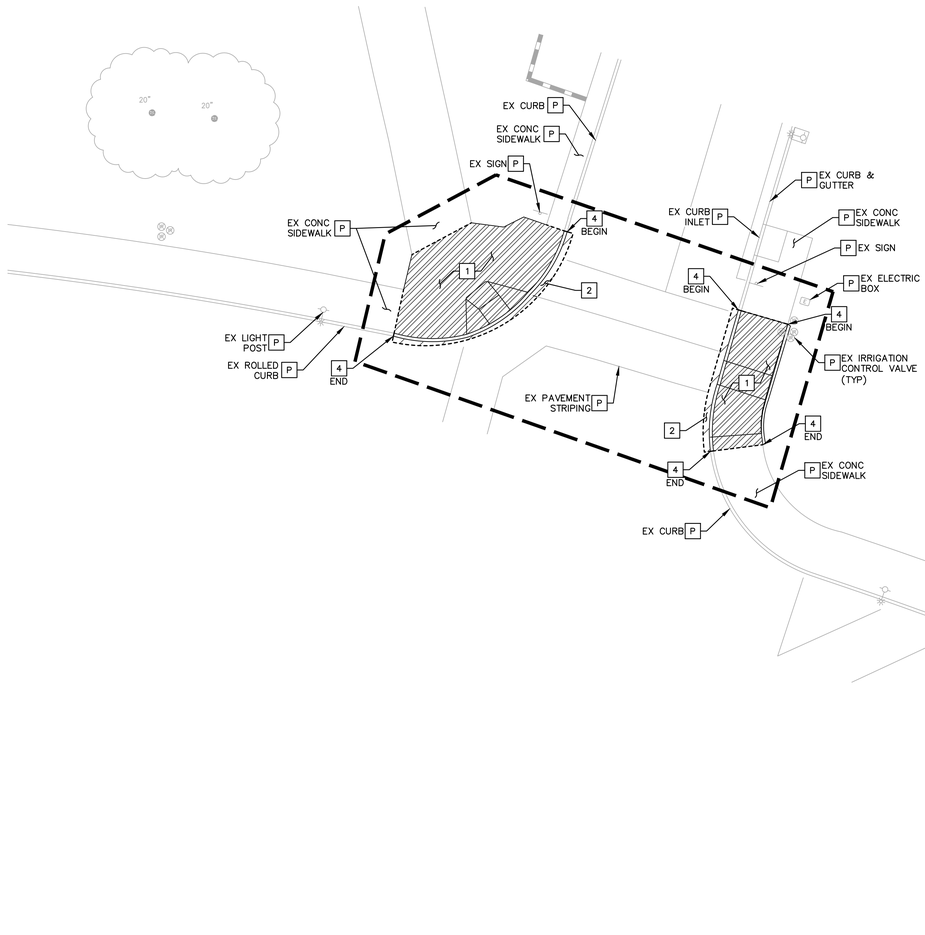
SHEET TITLE

DEMOLITION PLAN

SHEET NUMBER

C2.0

DSA SUBMITTAL



INDEX MAP
SCALE: 1 = 100'

DEMOLITION LEGEND:

- DEMOLISH EXISTING CONCRETE WALKWAY
- DEMOLISH EXISTING AC PAVEMENT AND BASE TO SUBGRADE. REMOVE ANY FOOTINGS/BASES UNDER BOLLARDS, PARKING SIGNS, ETC.
- LIMIT OF WORK
- SAWCUT LINE

DEMOLITION KEYNOTES:

- P PROTECT IN PLACE, SEE DEMOLITION GENERAL NOTES 2 & 3
- 1 DEMOLISH EXISTING CONCRETE WALKWAY
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- 4 REMOVE EXISTING CURB
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3. REFER TO CIVIL GRADING PLAN FOR LIMITS OF IMPROVEMENT PRIOR TO COMMENCING DEMOLITION ACTIVITIES.
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5. PROTECT IN PLACE ALL EXISTING TREES AND ROOT BALLS WITHIN THE LIMITS OF WORK UNLESS OTHERWISE NOTED ON PLAN.
6. CONTRACTOR SHALL SAWCUT TO THE NEAREST SCORE.

GRAPHIC SCALE
10 0 10 20
1" = 10"

DSA STAMP

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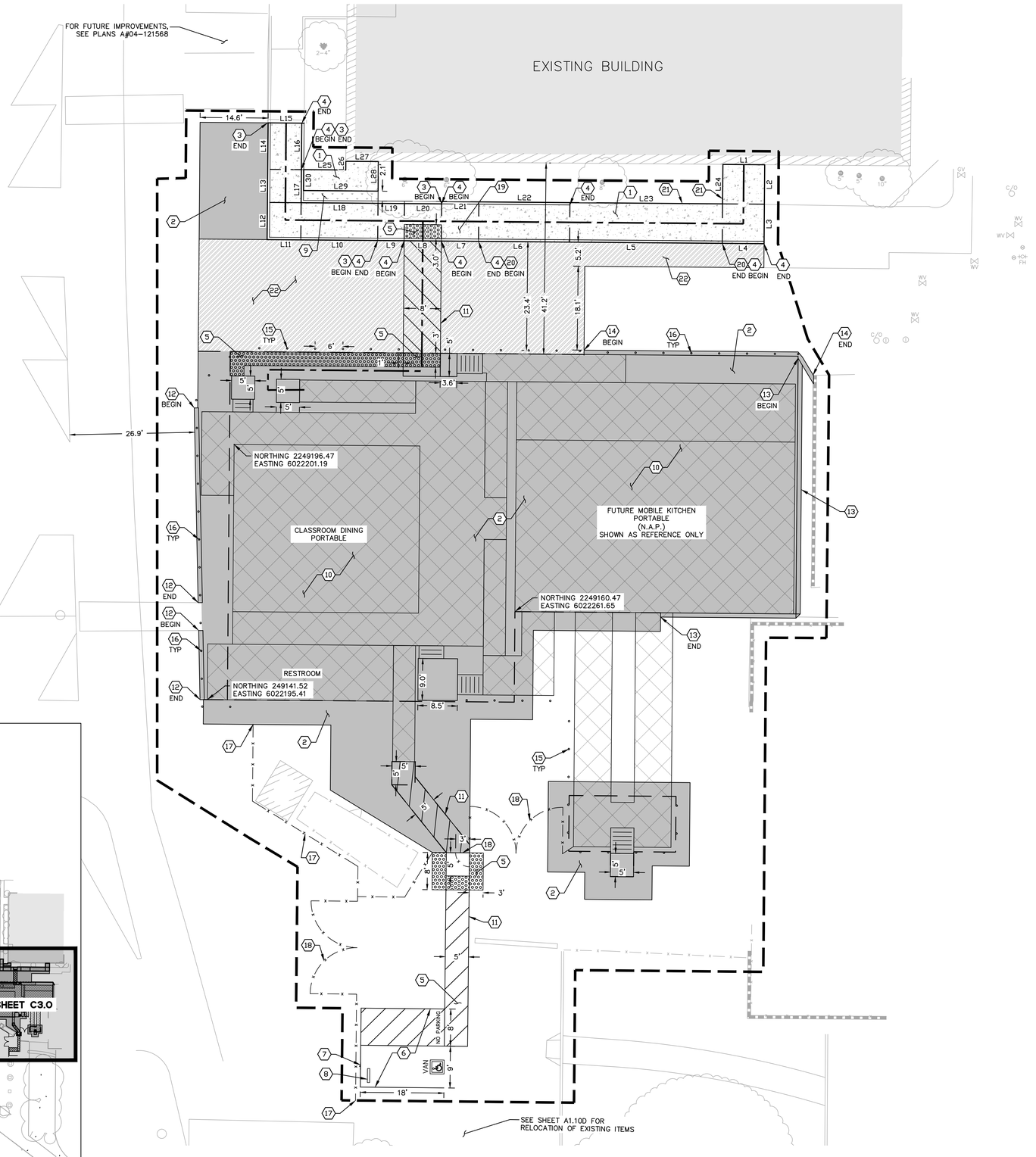
DEMOLITION PLAN

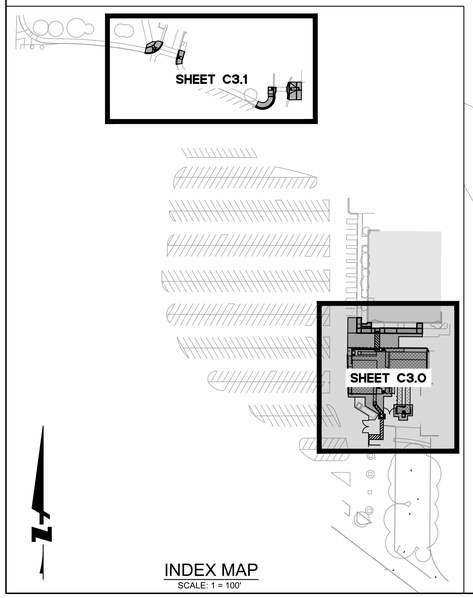
SHEET NUMBER

C2.1

DSA SUBMITTAL

LINE TABLE		
LINE #	LENGTH	BEARING
L1	9.00'	S89° 31' 43.74"E
L2	8.50'	S00° 28' 16.26"W
L3	8.50'	S00° 28' 16.26"W
L4	9.00'	N89° 31' 43.74"W
L5	32.86'	N89° 31' 43.74"W
L6	19.62'	N89° 31' 43.74"W
L7	8.00'	N89° 31' 43.74"W
L8	8.00'	N89° 31' 43.74"W
L9	5.71'	N89° 31' 43.74"W
L10	16.56'	N89° 31' 43.74"W
L11	7.25'	N89° 31' 43.74"W
L12	8.00'	N00° 29' 17.65"E
L13	7.13'	N00° 29' 17.65"E
L14	10.00'	N00° 29' 17.65"E
L15	7.75'	S89° 30' 42.35"E
L16	10.00'	N00° 28' 16.26"E
L17	7.13'	N00° 30' 43.74"E
L18	16.56'	N89° 31' 43.74"W
L19	5.71'	N89° 31' 43.74"W
L20	8.00'	N89° 31' 43.74"W
L21	8.00'	S89° 31' 43.74"E
L22	19.62'	S89° 31' 43.74"E
L23	32.86'	S89° 31' 43.74"E
L24	8.50'	N00° 28' 16.26"E
L25	9.05'	S89° 31' 28.15"E
L26	1.87'	N00° 28' 16.26"E
L27	7.00'	S89° 31' 43.74"E
L28	6.37'	S00° 28' 16.26"W
L29	16.05'	S89° 31' 43.74"E
L30	4.50'	N00° 28' 31.85"E





INDEX MAP
SCALE: 1 = 100'

QUANTITIES & LEGEND:

1,132 SF	PROPOSED CONCRETE SIDEWALK
10,690 SF	PROPOSED VEHICULAR ASPHALT, TYPICAL
2,207 SF	PROPOSED VEHICULAR ASPHALT, FIRE LANE
	PROPOSED LANDSCAPING
	PROPOSED PORTABLE
	LIMIT OF WORK
	ACCESSIBLE PATH OF TRAVEL

HORIZONTAL CONTROL KEYNOTES:

1. CONSTRUCT 4" PEDESTRIAN CONCRETE SIDEWALK PER DETAIL 1/C7.0
2. CONSTRUCT 4" A.C. OVER 6" A.B. PER DETAIL 2A/C7.0
3. CONSTRUCT 6" CURB PER DETAIL 3/C7.0
4. CONSTRUCT CURB TRANSITION FROM 0" TO 4" OR 6" CURB PER DETAIL 5/C7.0
5. INSTALL DETECTABLE WARNING SURFACE PER DETAIL 6/C7.0
6. INSTALL ACCESSIBLE PARKING STALL AND STRIPING PER DETAIL 7/C7.0
7. INSTALL ACCESSIBLE PARKING SIGNAGE PER ARCHITECTURAL PLANS/G3.10D
8. INSTALL CONCRETE WHEELSTOP PER DETAIL 8/C7.0
9. INSTALL LANDSCAPING
10. INSTALL PORTABLE PER ARCHITECTURAL PLANS
11. PAINT CROSSWALK PER DETAIL 9/C7.0
12. INSTALL ASPHALT BERM PER DETAIL 10A/C7.0
13. INSTALL ASPHALT BERM PER DETAIL 10B/C7.0
14. INSTALL ASPHALT BERM PER DETAIL 10C/C7.0
15. INSTALL 4" DIAMETER BOLLARD PER ARCHITECTURAL PLANS/G3.10D
16. INSTALL 4" DIAMETER BOLLARD WITHIN ASPHALT BERM PER DETAIL 11/C7.0
17. INSTALL FENCE PER ARCHITECTURAL PLANS/A9.11
18. INSTALL FENCE GATE PER ARCHITECTURAL PLANS
19. CONSTRUCT CURB RAMP PER DETAIL 12/C7.0
20. CONSTRUCT 4" CURB PER DETAIL 4/C7.0
21. CONSTRUCT CONCRETE PAVING EDGE PER DETAIL 13/C7.0
22. CONSTRUCT 4" A.C. OVER 10" A.B. PER DETAIL 2B/C7.0
23. CONSTRUCT CURB RAMP PER SHEET C4.1, SHALL COMPLY WITH 2021 CBC SECTIONS 11B-302, 11B-405, 11B-406, 11B-705
24. CONSTRUCT 6" CURB & GUTTER PER DETAIL 16/C7.0
25. CONSTRUCT CURB & GUTTER TRANSITION FROM 0" TO 6".
26. CONSTRUCT ROLLED CURB PER DETAIL 17/C7.0

HORIZONTAL CONTROL GENERAL NOTES:

1. CONTRACTOR SHALL LAYOUT THE CONTROL FOR THE SITE AS SPECIFIED ON THIS SHEET.
2. ALL DIMENSIONS ON THE PLANS ARE IN FEET OR DECIMALS THEREOF UNLESS SPECIFICALLY CALLED OUT AS FEET AND INCHES.
3. CONTRACTOR TO FIELD VERIFY EDGE OF PAVEMENT.
4. CONTRACTOR SHALL REMOVE EXISTING PAVING TO NEAREST EXPANSION JOINT FOR TRANSITION.

PAVEMENT GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE MOST CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CITY OF CYPRESS STANDARD DRAWINGS, CITY OF CYPRESS STANDARD SPECIFICATIONS, THE UNIFORM BUILDING CODE, THE WORK AREA TRAFFIC CONTROL HANDBOOK (W.A.T.C.H. MANUAL), CALTRANS STANDARD SPECIFICATIONS, ADA, CALIFORNIA MUTCD AND TITLE 24.
2. COLOR AND FINISH OF CONCRETE TO BE SPECIFIED BY ARCHITECT.
3. ALL TRAFFIC MARKINGS AND STRIPING SHALL CONFORM TO THE "STANDARD PLANS AND SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION," LATEST EDITION.
4. CAST IN PLACE DETECTABLE WARNING SURFACE BY ACCESS TILE, ADA SOLUTIONS, AMORCAST PRODUCTS COMPANY, OR APPROVED EQUAL. COLOR SHALL BE YELLOW.

GRAPHIC SCALE
10 0 10 20
1" = 10"

DSA STAMP

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RENEWAL DATE
STATE OF CALIFORNIA

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REGISTERED PROFESSIONAL ENGINEER
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No. C 43393
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STATE OF CALIFORNIA

PROJECT TITLE

HRC TEMP RELOCATABLE CLASSROOM & RESTROOM
9200 VALLEY VIEW ST.
CYPRESS, CA 90630

Cypress College

CYPRESS COMMUNITY COLLEGE
9200 VALLEY VIEW ST.
CYPRESS, CA 90630

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THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42".

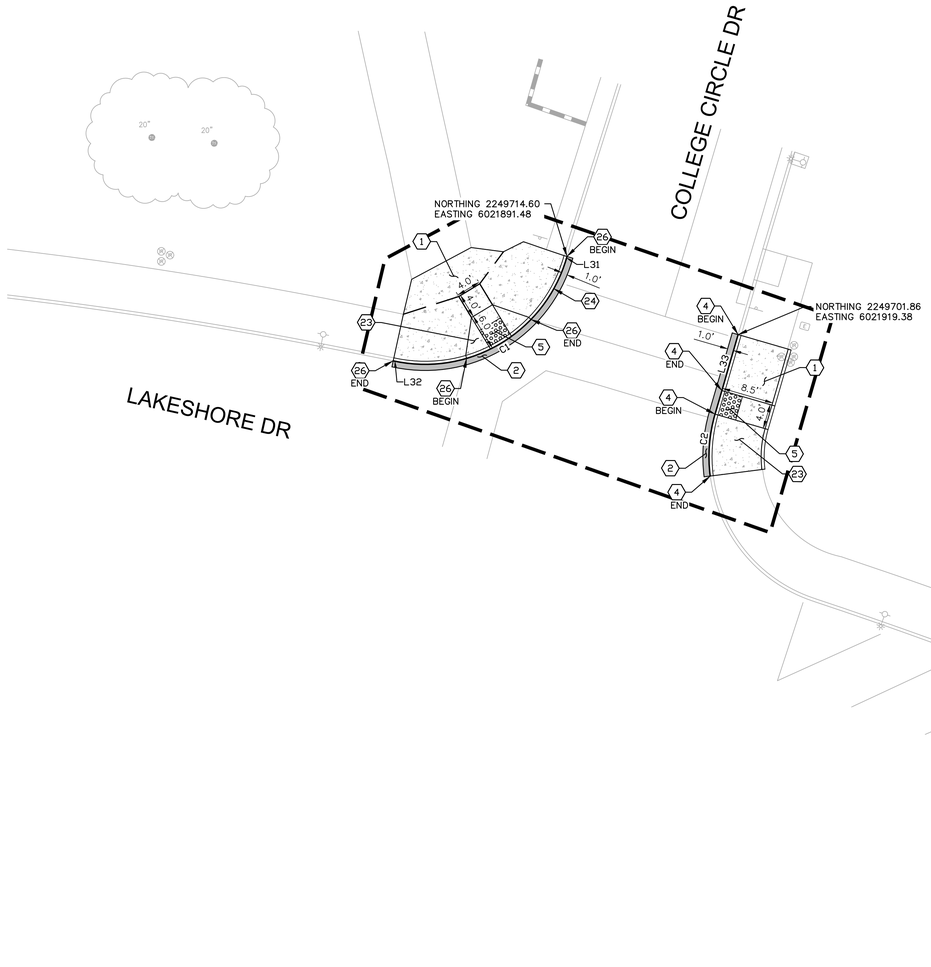
SHEET TITLE

HORIZONTAL CONTROL PLAN

SHEET NUMBER

C3.0

DSA SUBMITTAL



QUANTITIES & LEGEND:

1,132 SF	PROPOSED CONCRETE SIDEWALK
10,690 SF	PROPOSED VEHICULAR ASPHALT, TYPICAL
2,207 SF	PROPOSED VEHICULAR ASPHALT, FIRE LANE
	PROPOSED LANDSCAPING
	PROPOSED PORTABLE
	LIMIT OF WORK
	ACCESSIBLE PATH OF TRAVEL

HORIZONTAL CONTROL GENERAL NOTES:

1. CONTRACTOR SHALL LAYOUT THE CONTROL FOR THE SITE AS SPECIFIED ON THIS SHEET.
2. ALL DIMENSIONS ON THE PLANS ARE IN FEET OR DECIMALS THEREOF UNLESS SPECIFICALLY CALLED OUT AS FEET AND INCHES.
3. CONTRACTOR TO FIELD VERIFY EDGE OF PAVEMENT.
4. CONTRACTOR SHALL REMOVE EXISTING PAVING TO NEAREST EXPANSION JOINT FOR TRANSITION.

PAVEMENT GENERAL NOTES:

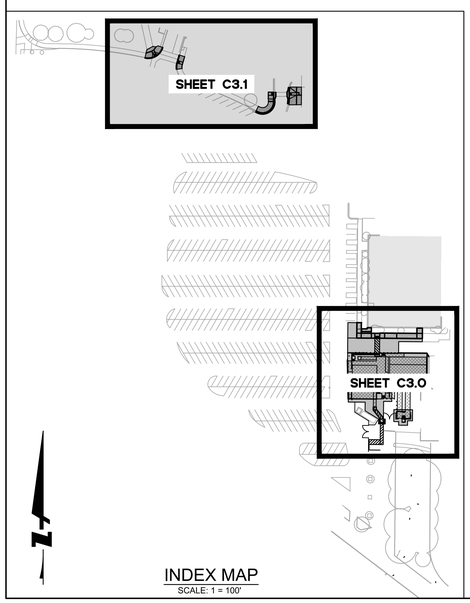
1. ALL WORK SHALL CONFORM TO THE MOST CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CITY OF CYPRESS STANDARD DRAWINGS, CITY OF CYPRESS STANDARD SPECIFICATIONS, THE UNIFORM BUILDING CODE, THE WORK AREA TRAFFIC CONTROL HANDBOOK (W.A.T.C.H. MANUAL), CALTRANS STANDARD SPECIFICATIONS, ADA, CALIFORNIA MUTCD AND TITLE 24.
2. COLOR AND FINISH OF CONCRETE TO BE SPECIFIED BY ARCHITECT.
3. ALL TRAFFIC MARKINGS AND STRIPING SHALL CONFORM TO THE "STANDARD PLANS AND SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION," LATEST EDITION.
4. CAST IN PLACE DETECTABLE WARNING SURFACE BY ACCESS TILE, ADA SOLUTIONS, AMORCAST PRODUCTS COMPANY, OR APPROVED EQUAL. COLOR SHALL BE YELLOW.

HORIZONTAL CONTROL KEYNOTES:

1. CONSTRUCT 4" PEDESTRIAN CONCRETE SIDEWALK PER DETAIL 1/C7.0
2. CONSTRUCT 4" A.C. OVER 6" A.B. PER DETAIL 2A/C7.0
3. CONSTRUCT 6" CURB PER DETAIL 3/C7.0
4. CONSTRUCT CURB TRANSITION FROM 0" TO 4" OR 6" CURB PER DETAIL 5/C7.0
5. INSTALL DETECTABLE WARNING SURFACE PER DETAIL 6/C7.0
6. INSTALL ACCESSIBLE PARKING STALL AND STRIPING PER DETAIL 7/C7.0
7. INSTALL ACCESSIBLE PARKING SIGNAGE PER ARCHITECTURAL PLANS/G3.10D
8. INSTALL CONCRETE WHEELSTOP PER DETAIL 8/C7.0
9. INSTALL LANDSCAPING
10. INSTALL PORTABLE PER ARCHITECTURAL PLANS
11. PAINT CROSSWALK PER DETAIL 9/C7.0
12. INSTALL ASPHALT BERM PER DETAIL 10A/C7.0
13. INSTALL ASPHALT BERM PER DETAIL 10B/C7.0
14. INSTALL ASPHALT BERM PER DETAIL 10C/C7.0
15. INSTALL 4" DIAMETER BOLLARD PER ARCHITECTURAL PLANS/G3.10D
16. INSTALL 4" DIAMETER BOLLARD WITHIN ASPHALT BERM PER DETAIL 11/C7.0
17. INSTALL FENCE PER ARCHITECTURAL PLANS/A9.11
18. INSTALL FENCE GATE PER ARCHITECTURAL PLANS
19. CONSTRUCT CURB RAMP PER DETAIL 12/C7.0
20. CONSTRUCT 4" CURB PER DETAIL 4/C7.0
21. CONSTRUCT CONCRETE PAVING EDGE PER DETAIL 13/C7.0
22. CONSTRUCT 4" A.C. OVER 10" A.B. PER DETAIL 2B/C7.0
23. CONSTRUCT CURB RAMP PER SHEET C4.1, SHALL COMPLY WITH 2021 CBC SECTIONS 11B-302, 11B-405, 11B-406, 11B-705
24. CONSTRUCT 6" CURB & GUTTER PER DETAIL 16/C7.0
25. CONSTRUCT CURB & GUTTER TRANSITION FROM 0" TO 6".
26. CONSTRUCT ROLLED CURB PER DETAIL 17/C7.0

LINE TABLE		
LINE #	LENGTH	BEARING
L31	0.44'	S16° 33' 25.95"W
L32	0.59'	N78° 52' 26.81"W
L33	13.50'	S16° 10' 09.78"W
L34	5.00'	N00° 34' 19.62"E
L35	10.71'	N00° 34' 19.62"E
L36	2.88'	S63° 56' 57.91"E
L37	4.00'	N00° 27' 24.44"W

CURVE TABLE				
CURVE #	LENGTH	RADIUS	TANGENT	DELTA
C1	35.42'	24.00'	21.83'	84.57
C2	10.20'	25.00'	5.17'	23.37
C3	36.28'	18.00'	28.52'	115.48
C4	8.49'	35.00'	4.27'	13.90
C5	14.30'	120.00'	7.16'	6.83



INDEX MAP
SCALE: 1 = 100'

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HORIZONTAL CONTROL PLAN

SHEET NUMBER

C3.1

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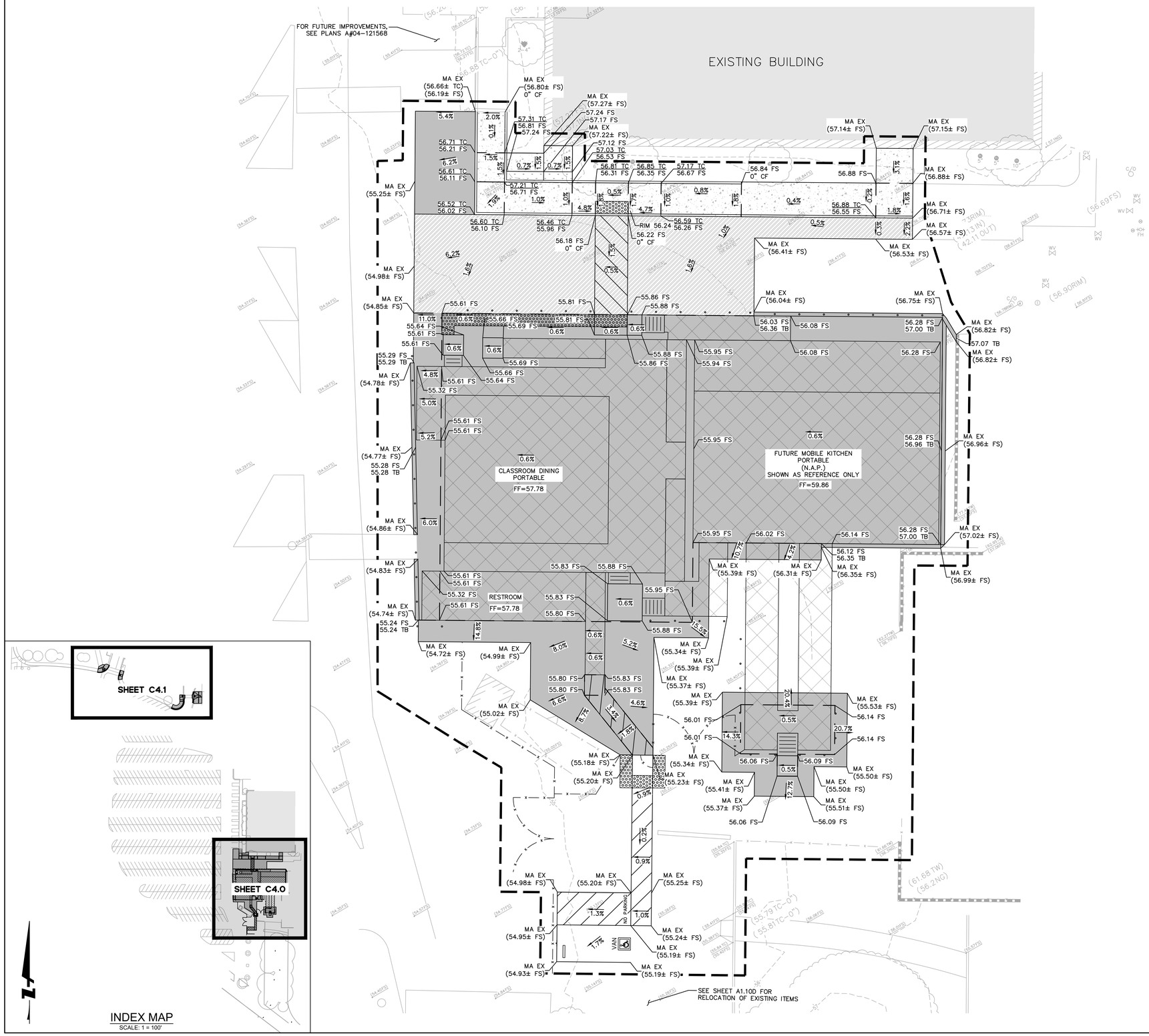

LEGEND:

- LIMIT OF WORK
- GRADE BREAK
- X% PROPOSED FLOW DIRECTION
- 106 PROPOSED CONTOUR
- 106 EXISTING CONTOUR
- PROPOSED CONCRETE SIDEWALK
- PROPOSED ASPHALT, TYPICAL
- PROPOSED ASPHALT, FIRE LANE
- PROPOSED LANDSCAPING
- PROPOSED PORTABLE

GRADING GENERAL NOTES:

1. ALL EXISTING UTILITY COVERS WITHIN LIMIT OF WORK ARE TO BE ADJUSTED TO GRADES SHOWN ON PLAN.
2. FOR WALKS IN ADA ACCESSIBLE AREAS CROSS SLOPES SHOULD NOT EXCEED 2.0% GRADE.
3. CONTRACTOR SHALL SAWCUT AND REMOVE PORTION OF EXISTING CONCRETE TO CREATE STRAIGHT AND SMOOTH EDGE WHERE NEW CONCRETE JOINS TO EXISTING.
4. ALL CONCRETE PAVING ADJACENT TO PLANTING TO HAVE THICKENED EDGE.

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SHEET NUMBER

C4.0

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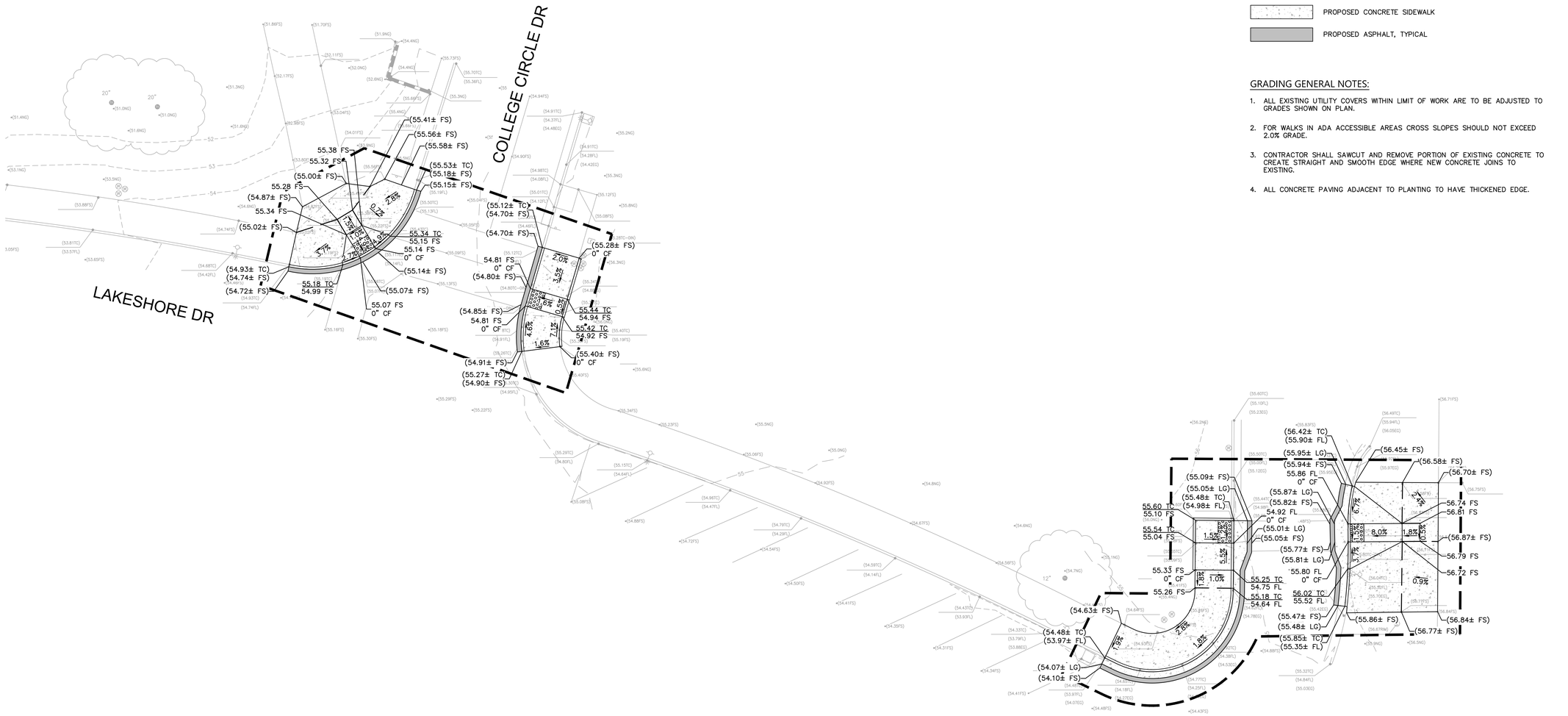

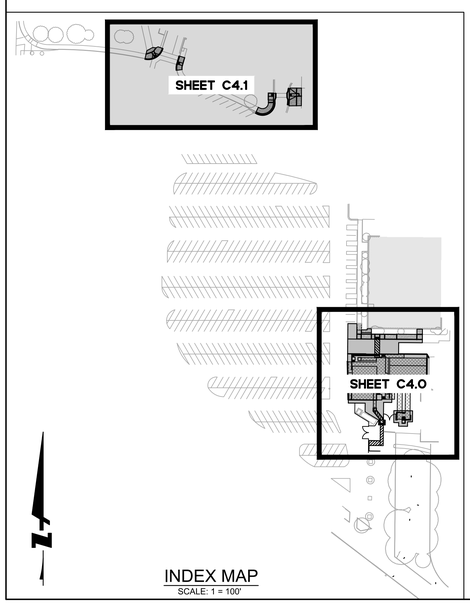

INDEX MAP
SCALE: 1 = 100'

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1" = 10"

LEGEND:

- LIMIT OF WORK
- GRADE BREAK
- X% PROPOSED FLOW DIRECTION
- 106 PROPOSED CONTOUR
- 106 EXISTING CONTOUR
- (XXX.XX± FS) EXISTING GRADE ELEVATION TO MATCH
- XXX.XX FS PROPOSED GRADE ELEVATION
- PROPOSED CONCRETE SIDEWALK
- PROPOSED ASPHALT, TYPICAL

GRADING GENERAL NOTES:

1. ALL EXISTING UTILITY COVERS WITHIN LIMIT OF WORK ARE TO BE ADJUSTED TO GRADES SHOWN ON PLAN.
2. FOR WALKS IN ADA ACCESSIBLE AREAS CROSS SLOPES SHOULD NOT EXCEED 2.0% GRADE.
3. CONTRACTOR SHALL SAWCUT AND REMOVE PORTION OF EXISTING CONCRETE TO CREATE STRAIGHT AND SMOOTH EDGE WHERE NEW CONCRETE JOINS TO EXISTING.
4. ALL CONCRETE PAVING ADJACENT TO PLANTING TO HAVE THICKENED EDGE.

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GRADING PLAN

SHEET NUMBER

C4.1

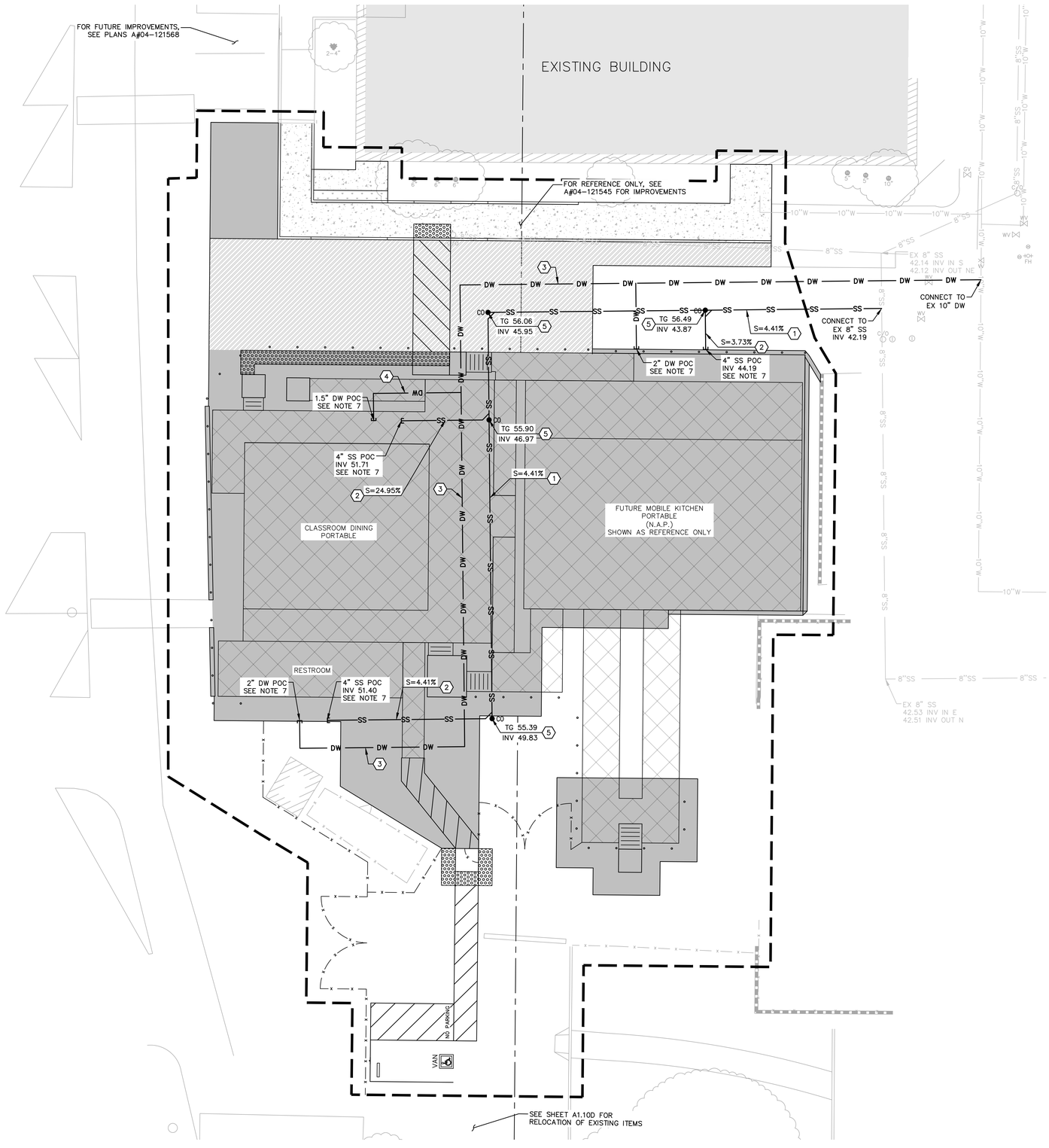
DSA SUBMITTAL

LEGEND:

- PROPOSED CONCRETE SIDEWALK
- PROPOSED ASPHALT, TYPICAL
- PROPOSED ASPHALT, FIRE LANE
- PROPOSED LANDSCAPING
- PROPOSED PORTABLE
- LIMIT OF WORK

UTILITY LEGEND:

LIMIT OF WORK	
SS	PVC SANITARY SEWER
DW	C900 PVC DOMESTIC WATER
CO	SS CLEANOUT
DW	DOMESTIC WATER
EX	EXISTING
INV	INVERT
POC	POINT OF CONNECTION
S	SLOPE
SS	SANITARY SEWER
TG	TOP OF GRATE



UTILITY KEYNOTES:

1. INSTALL 6" SDR35 PVC PIPE AND FITTINGS PER TRENCHING DETAIL 14/C7.0.
2. INSTALL 4" SDR35 PVC PIPE AND FITTINGS PER TRENCHING DETAIL 14/C7.0.
3. INSTALL 2" COPPER PIPE AND FITTINGS, ASTM B 88, TYPE K PER TRENCHING DETAIL 14/C7.0.
4. INSTALL 1.5" COPPER PIPE AND FITTINGS, ASTM B 88, TYPE K PER TRENCHING DETAIL 14/C7.0.
5. INSTALL SEWER CLEANOUT PER DETAIL 15/C7.0

GENERAL UTILITY NOTES:

1. CONTRACTOR SHALL FIELD VERIFY LOCATION OF DOMESTIC WATER SERVICE AND CONNECT UPSTREAM OF (E) BFP.
2. SEE LANDSCAPE IRRIGATION PLANS FOR DESIGN SPECIFICATIONS.
3. CONTRACTOR TO CONTACT THE COLLEGE AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION, UTILITY REMOVAL AND RELOCATION.
4. NEW UTILITY LINE SHALL BE INSTALLED PER DETAIL 14/C7.0
5. INSTALL GRAVITY FLOW UTILITIES FROM DOWNSTREAM CONECTION POINT TO UPSTREAM TERMINUS.
6. ADJUST EXISTING MANHOLE AND GRATE ELEVATIONS AS NOTED ON GRADING PLANS.
7. PROPOSED UTILITY POINT OF CONNECTION. SEE MEP PLANS FOR CONTINUATION.
8. PROPOSED CONSTRUCTION AND UTILITY CONNECTIONS IN THE PUBLIC RIGHT-OF-WAY PER SEPARATE PLANS.

GRAPHIC SCALE
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1" = 10"

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UTILITY PLAN

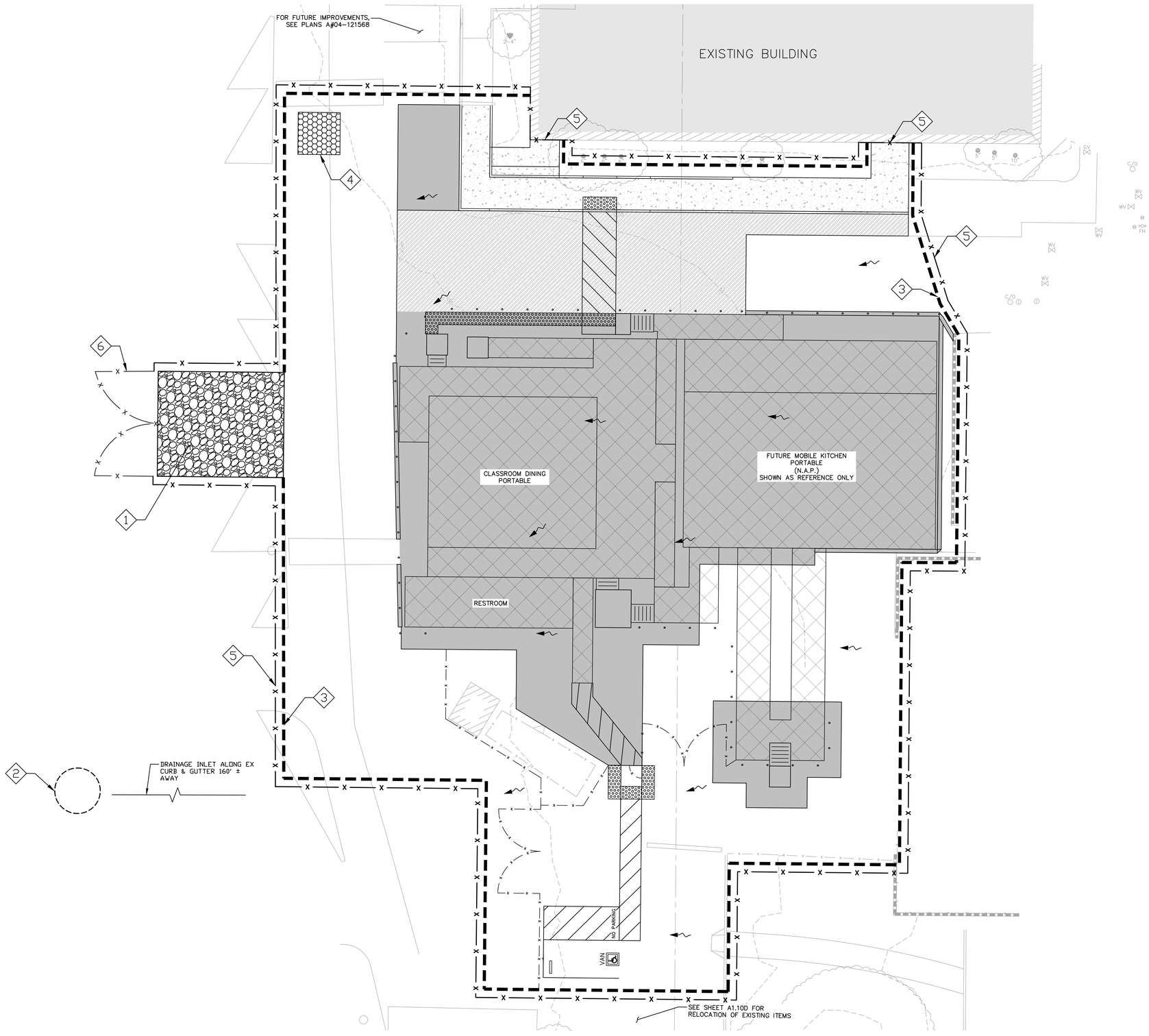
SHEET NUMBER

C5.0

DSA SUBMITTAL

LEGEND:

- LIMIT OF WORK
- FIBER ROLL (SE-5)
- CONSTRUCTION FENCE TO BE PLACED BY CONTRACTOR
- STORM DRAIN INLET PROTECTION (SE-10)
- STABILIZED CONSTRUCTION ENTRANCE (TC-1). LOCATION VARIES BY CONTRACTOR.
- CONCRETE WASHOUT PIT (NS-8). LOCATION VARIES BY CONTRACTOR.
- FLOW ARROW



EROSION CONTROL KEYNOTES:

1. INSTALL STABILIZED CONSTRUCTION ENTRANCE PER DETAIL 1/C6.2
2. INSTALL STORM DRAIN INLET PROTECTION PER DETAIL 2/C6.2
3. INSTALL FIBER ROLL PER DETAIL 3/C6.2
4. INSTALL WASHOUT PIT PER DETAIL 4/C6.2
5. INSTALL CONSTRUCTION FENCE PER DETAIL 5/C6.2
6. INSTALL CONSTRUCTION FENCE GATE

NOTES:

1. SITE ACCESS SHOWN ON THIS PLAN IS PROVIDED FOR INFORMATION PURPOSES ONLY. CONTRACTOR SHALL LOCATE CONSTRUCTION ACCESS DRIVEWAYS AS NECESSARY.
2. LOCATION OF CONSTRUCTION FENCING SHOWN ON THIS PLAN IS APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING THE SITE AND INSTALLING NEW CONSTRUCTION FENCING AS NECESSARY.
3. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN EFFECT AND MAINTAINED BY THE CONTRACTOR ON A YEAR-ROUND BASIS UNTIL ALL DISTURBED AREAS ARE STABILIZED UNLESS OTHERWISE PERMITTED BY THE COUNTY INSPECTOR.
4. ALL INLETS RECEIVING STORM WATER RUNOFF FROM THE PROJECT AREA MUST BE EQUIPPED WITH REQUIRED INLET PROTECTION.
5. ALL PAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIALS AND DEBRIS. THE SITE SHALL BE MAINTAINED SO TO MINIMIZE SEDIMENT LADEN RUNOFF ENTERING THE STORM DRAIN SYSTEM.
6. STOCKPILED EARTHEN MATERIAL SHALL BE EITHER COVERED WITH A TARP OR WATERED SUFFICIENTLY TO ELIMINATE DUST.
7. CONSTRUCTION AREAS SHOWN ARE CONCEPTUAL. ACTUAL PLACEMENT TO BE DETERMINED BY CONTRACTOR BASED ON CURRENT BEST MANAGEMENT PRACTICES. CONTRACTOR SHALL SUBMIT A CONSTRUCTION STAGING PLAN.

EROSION CONTROL NOTES:

1. THE EROSION CONTROL CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSPECTION AND MODIFICATION OF THE EROSION CONTROL DEVICES DURING THE RAINY SEASON. THE CONTRACTOR, PERMITTEE OR OWNER SHALL BE RESPONSIBLE FOR THE CONTINUAL MAINTENANCE OF THE EROSION CONTROL DEVICES DURING THE RAINY SEASON. IN THE EVENT O FAILURE OR REFUSAL TO PROPERLY MAINTAIN SAID DEVICES, THE CITY ENGINEER OR MITIGATION MONITOR MAY CAUSE EMERGENCY MAINTENANCE WORK TO BE DONE TO PROTECT ADJACENT PRIVATE AND PUBLIC PROPERTY, THE COST (INCLUDING AN INITIAL MOBILIZATION AMOUNT) OF WHICH SHALL BE CHARGED TO THE OWNER.
2. SEDIMENTATION BASINS MAY NOT BE REMOVED OR MADE INOPERATIVE WITHOUT PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER AND MITIGATION MONITOR.
3. TEMPORARY EROSION CONTROL DEVICES, WHICH INTERFERE WITH THE WORK, SHALL BE RELOCATED OR MODIFIED AS THE WORK PROGRESSES, AS RECOMMENDED BY THE ENGINEER OF WORK AND AS APPROVED BY THE CITY ENGINEER AND MITIGATION MONITOR.
4. ALL REMOVABLE PROTECTION DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE 5-DAY RAIN PROBABILITY FORECAST EXCEEDS 40 PERCENT. AFTER EACH RAINSTORM EXCEEDING 1/4 INCH IN A 12-HOUR PERIOD, SILT AND DEBRIS SHALL BE REMOVED FROM CHECK DAMS AND DESILTING BASINS AND BASINS SHALL BE PUMPED DRY AS DEEMED NECESSARY BY THE CITY ENGINEER AND MITIGATION MONITOR.
5. PLANTING SHALL BE INSTALLED, FULLY GERMINATED, AND SHALL EFFECTIVELY COVER THE REQUIRED SLOPES PRIOR TO FINAL APPROVAL. THE PLANTING MIX SHALL BE APPROVED, BY THE DIRECTOR OF DEVELOPMENT SERVICES OR DESIGNEE, PRIOR TO INSTALLATION. SPRINKLER SYSTEMS ARE REQUIRED ON ALL SLOPES THREE FEET IN VERTICAL HEIGHT OR GREATER.
6. A 12 INCH HIGH BY 3 FEET WIDE BERM SHALL BE MAINTAINED ALONG THE TOP OF THE SLOPE OF THOSE FILLS ON WHICH GRADING IS NOT IN PROGRESS. CONCENTRATED WATER SHALL NOT BE CARRIED CLOSER THAN 10 FEET FROM THE TOP OF SLOPES.
7. SILT BASINS, TRAPS, OR SANDBAGS SHALL BE PROVIDED AT EVERY STORM DRAIN INLET TO PREVENT SEDIMENT FROM ENTERING THE STORM DRAIN SYSTEM.
8. FOR INLETS LOCATED AT SUMPS ADJACENT TO TOP OF SLOPE, THE CONTRACTOR SHALL INSURE THAT WATER DRAINING TO THE SUMPS IS DIRECTED INTO THE INLET, AND THAT A MINIMUM OF 1.00' FREEBOARD EXISTS AND IS MAINTAINED ABOVE THE TOP OF THE INLET. IF FREEBOARD IS NOT PROVIDED BY GRADING SHOWN ON THESE PLANS, THE CONTRACTOR SHALL PROVIDE IT VIA TEMPORARY MEASURES, I.E. SANDBAGS OR DIKES.
9. THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUD ON ADJACENT STREETS DUE TO CONSTRUCTION ACTIVITY.
10. THE CONTRACTOR SHALL CHECK AND MAINTAIN LINED AND UNLINED DITCHES AFTER EACH RAINFALL.
11. HYDROSEED NOTES (APPLICABLE ONLY IF THERE WILL BE SLOPES THREE FEET IN VERTICAL HEIGHT OR GREATER)
    A. ALL SLOPES 3 FEET IN VERTICAL HEIGHT OR GREATER AND PADS STEEPER THAN 2% SHALL BE HYDROSEEDED WITH THE FOLLOWING IRRIGATED SEED MIX, MULCH AND BINDING AGENT:

       (CONSULTANT TO INSERT THE PROPOSED SEED MIX HERE)

    B. IRRIGATION METHODS ARE REQUIRED FOR ALL AREAS HYDROSEEDED BETWEEN MARCH 1ST AND NOVEMBER 1ST AS NEEDED. IMMEDIATELY FOLLOWING HYDROSEED APPLICATION, AND FOR A PERIOD OF TIME OF NO LESS THAN 90 DAYS, ADEQUATE SOIL MOISTURE SHALL BE MAINTAINED IN THE UPPER ONE-HALF INCH OF SOIL TO ASSURE MAXIMUM RATES OF SEED GERMINATION AND PLANT ESTABLISHMENT. IRRIGATION SHALL BE MAINTAINED BEYOND THE 90 DAYS WHEN DEEMED NECESSARY BY THE CITY OF CHULA VISTA PUBLIC WORKS OPERATIONS, OPEN SPACE SECTION.
    C. IRRIGATION SYSTEMS ARE NOT REQUIRED FOR AREAS HYDROSEEDED ON (OR WITHIN ONE WEEK OF) NOVEMBER 1ST; HOWEVER, TEMPORARY WATERING (BY HAND OR TRUCK) IS REQUIRED UNTIL PLANTING IS ESTABLISHED IF RAINFALL IS NOT PRESENT.

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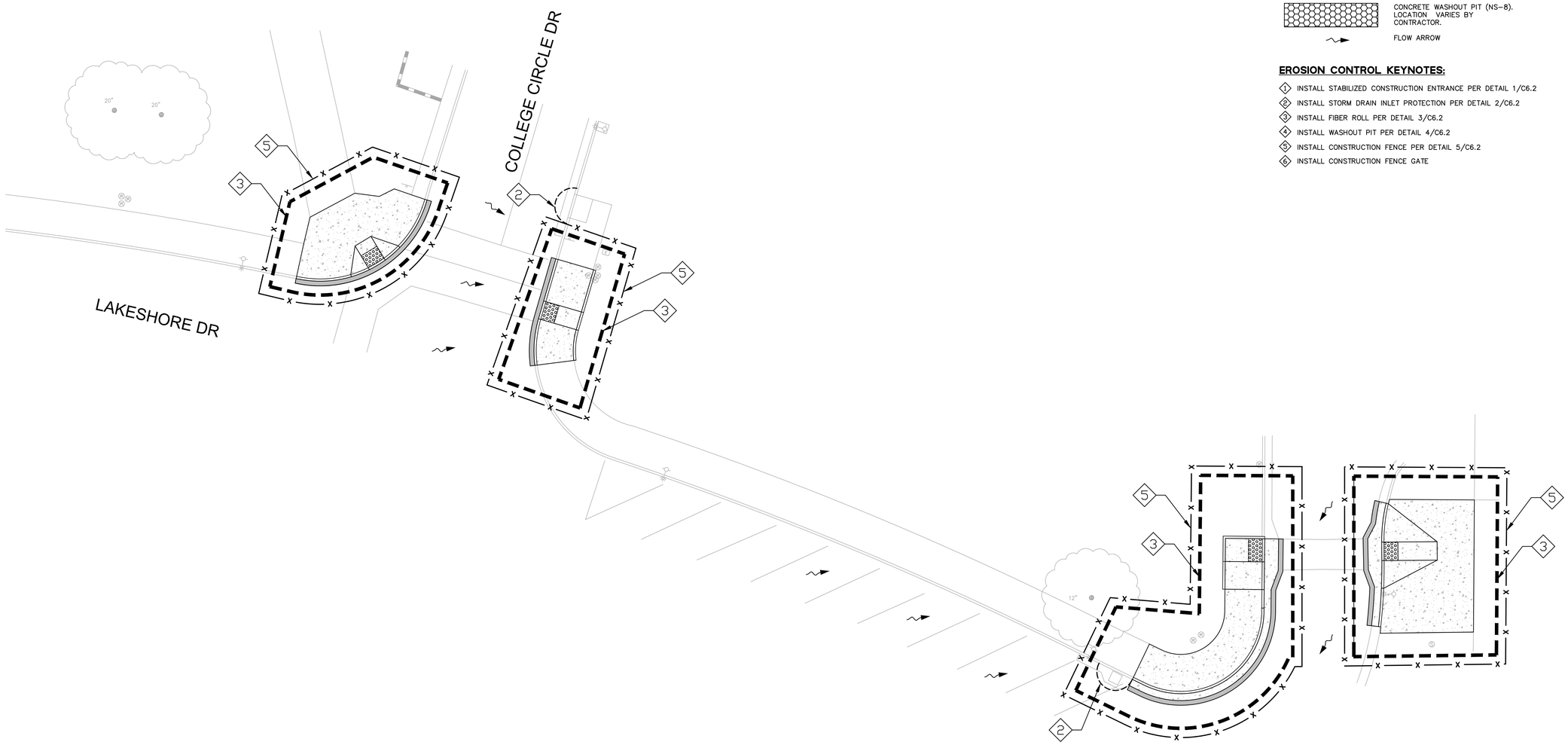
SHEET TITLE

EROSION CONTROL PLAN

SHEET NUMBER

C6.0

DSA SUBMITTAL



LEGEND:

- LIMIT OF WORK
- FIBER ROLL (SE-5)
- CONSTRUCTION FENCE TO BE PLACED BY CONTRACTOR
- STORM DRAIN INLET PROTECTION (SE-10)
- STABILIZED CONSTRUCTION ENTRANCE (TC-1). LOCATION VARIES BY CONTRACTOR.
- CONCRETE WASHOUT PIT (NS-8). LOCATION VARIES BY CONTRACTOR.
- FLOW ARROW

EROSION CONTROL KEYNOTES:

1. INSTALL STABILIZED CONSTRUCTION ENTRANCE PER DETAIL 1/C6.2
2. INSTALL STORM DRAIN INLET PROTECTION PER DETAIL 2/C6.2
3. INSTALL FIBER ROLL PER DETAIL 3/C6.2
4. INSTALL WASHOUT PIT PER DETAIL 4/C6.2
5. INSTALL CONSTRUCTION FENCE PER DETAIL 5/C6.2
6. INSTALL CONSTRUCTION FENCE GATE

NOTES:

1. SITE ACCESS SHOWN ON THIS PLAN IS PROVIDED FOR INFORMATION PURPOSES ONLY. CONTRACTOR SHALL LOCATE CONSTRUCTION ACCESS DRIVEWAYS AS NECESSARY.
2. LOCATION OF CONSTRUCTION FENCING SHOWN ON THIS PLAN IS APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING THE SITE AND INSTALLING NEW CONSTRUCTION FENCING AS NECESSARY.
3. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN EFFECT AND MAINTAINED BY THE CONTRACTOR ON A YEAR-ROUND BASIS UNTIL ALL DISTURBED AREAS ARE STABILIZED UNLESS OTHERWISE PERMITTED BY THE COUNTY INSPECTOR.
4. ALL INLETS RECEIVING STORM WATER RUNOFF FROM THE PROJECT AREA MUST BE EQUIPPED WITH REQUIRED INLET PROTECTION.
5. ALL PAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIALS AND DEBRIS. THE SITE SHALL BE MAINTAINED SO TO MINIMIZE SEDIMENT LADEN RUNOFF ENTERING THE STORM DRAIN SYSTEM.
6. STOCKPILED EARTHEN MATERIAL SHALL BE EITHER COVERED WITH A TARP OR WATERED SUFFICIENTLY TO ELIMINATE DUST.
7. CONSTRUCTION AREAS SHOWN ARE CONCEPTUAL. ACTUAL PLACEMENT TO BE DETERMINED BY CONTRACTOR BASED ON CURRENT BEST MANAGEMENT PRACTICES. CONTRACTOR SHALL SUBMIT A CONSTRUCTION STAGING PLAN.

EROSION CONTROL NOTES:

1. THE EROSION CONTROL CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSPECTION AND MODIFICATION OF THE EROSION CONTROL DEVICES DURING THE RAINY SEASON. THE CONTRACTOR, PERMITTEE OR OWNER SHALL BE RESPONSIBLE FOR THE CONTINUAL MAINTENANCE OF THE EROSION CONTROL DEVICES DURING THE RAINY SEASON. IN THE EVENT O FAILURE OR REFUSAL TO PROPERLY MAINTAIN SAID DEVICES, THE CITY ENGINEER OR MITIGATION MONITOR MAY CAUSE EMERGENCY MAINTENANCE WORK TO BE DONE TO PROTECT ADJACENT PRIVATE AND PUBLIC PROPERTY, THE COST (INCLUDING AN INITIAL MOBILIZATION AMOUNT) OF WHICH SHALL BE CHARGED TO THE OWNER.
2. SEDIMENTATION BASINS MAY NOT BE REMOVED OR MADE INOPERATIVE WITHOUT PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER AND MITIGATION MONITOR.
3. TEMPORARY EROSION CONTROL DEVICES, WHICH INTERFERE WITH THE WORK, SHALL BE RELOCATED OR MODIFIED AS THE WORK PROGRESSES, AS RECOMMENDED BY THE ENGINEER OF WORK AND AS APPROVED BY THE CITY ENGINEER AND MITIGATION MONITOR.
4. ALL REMOVABLE PROTECTION DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE 5-DAY RAIN PROBABILITY FORECAST EXCEEDS 40 PERCENT. AFTER EACH RAINSTORM EXCEEDING 1/4 INCH IN A 12-HOUR PERIOD, SILT AND DEBRIS SHALL BE REMOVED FROM CHECK DAMS AND DESILTING BASINS AND BASINS SHALL BE PUMPED DRY AS DEEMED NECESSARY BY THE CITY ENGINEER AND MITIGATION MONITOR.
5. PLANTING SHALL BE INSTALLED, FULLY GERMINATED, AND SHALL EFFECTIVELY COVER THE REQUIRED SLOPES PRIOR TO FINAL APPROVAL. THE PLANTING MIX SHALL BE APPROVED, BY THE DIRECTOR OF DEVELOPMENT SERVICES OR DESIGNEE, PRIOR TO INSTALLATION. SPRINKLER SYSTEMS ARE REQUIRED ON ALL SLOPES THREE FEET IN VERTICAL HEIGHT OR GREATER.
6. A 12 INCH HIGH BY 3 FEET WIDE BERM SHALL BE MAINTAINED ALONG THE TOP OF THE SLOPE OF THOSE FILLS ON WHICH GRADING IS NOT IN PROGRESS. CONCENTRATED WATER SHALL NOT BE CARRIED CLOSER THAN 10 FEET FROM THE TOP OF SLOPES.
7. SILT BASINS, TRAPS, OR SANDBAGS SHALL BE PROVIDED AT EVERY STORM DRAIN INLET TO PREVENT SEDIMENT FROM ENTERING THE STORM DRAIN SYSTEM.
8. FOR INLETS LOCATED AT SUMPS ADJACENT TO TOP OF SLOPE, THE CONTRACTOR SHALL INSURE THAT WATER DRAINING TO THE SUMPS IS DIRECTED INTO THE INLET, AND THAT A MINIMUM OF 1.00' FREEBOARD EXISTS AND IS MAINTAINED ABOVE THE TOP OF THE INLET. IF FREEBOARD IS NOT PROVIDED BY GRADING SHOWN ON THESE PLANS, THE CONTRACTOR SHALL PROVIDE IT VIA TEMPORARY MEASURES, I.E. SANDBAGS OR DIKES.
9. THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUD ON ADJACENT STREETS DUE TO CONSTRUCTION ACTIVITY.
10. THE CONTRACTOR SHALL CHECK AND MAINTAIN LINED AND UNLINED DITCHES AFTER EACH RAINFALL.
11. HYDROSEED NOTES (APPLICABLE ONLY IF THERE WILL BE SLOPES THREE FEET IN VERTICAL HEIGHT OR GREATER)
    A. ALL SLOPES 3 FEET IN VERTICAL HEIGHT OR GREATER AND PADS STEEPER THAN 2% SHALL BE HYDROSEEDED WITH THE FOLLOWING IRRIGATED SEED MIX, MULCH AND BINDING AGENT:

    (CONSULTANT TO INSERT THE PROPOSED SEED MIX HERE)

    B. IRRIGATION METHODS ARE REQUIRED FOR ALL AREAS HYDROSEEDED BETWEEN MARCH 1ST AND NOVEMBER 1ST AS NEEDED. IMMEDIATELY FOLLOWING HYDROSEED APPLICATION, AND FOR A PERIOD OF TIME OF NO LESS THAN 90 DAYS, ADEQUATE SOIL MOISTURE SHALL BE MAINTAINED IN THE UPPER ONE-HALF INCH OF SOIL TO ASSURE MAXIMUM RATES OF SEED GERMINATION AND PLANT ESTABLISHMENT. IRRIGATION SHALL BE MAINTAINED BEYOND THE 90 DAYS WHEN DEEMED NECESSARY BY THE CITY OF CHULA VISTA PUBLIC WORKS OPERATIONS, OPEN SPACE SECTION.

    C. IRRIGATION SYSTEMS ARE NOT REQUIRED FOR AREAS HYDROSEEDED ON (OR WITHIN ONE WEEK OF) NOVEMBER 1ST; HOWEVER, TEMPORARY WATERING (BY HAND OR TRUCK) IS REQUIRED UNTIL PLANTING IS ESTABLISHED IF RAINFALL IS NOT PRESENT.

N

GRAPHIC SCALE

10 0 10 20

1" = 10"

DSA STAMP

HPI architecture

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o: 949.675.6442

SEAL

LICENSED ARCHITECT
AMMAR NAJI SARSAM
C-30902
12/31/2023
RENEWAL DATE
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CONSULTANTS

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4675 MACARTHUR CT.
SUITE 400
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(949) 526-8460
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REGISTERED PROFESSIONAL ENGINEER
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No. C 42393
CIVIL
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PROJECT TITLE

HRC TEMP RELOCATABLE CLASSROOM & RESTROOM

9200 VALLEY VIEW ST.
CYPRESS, CA 90630

Cypress College

CYPRESS COMMUNITY COLLEGE

9200 VALLEY VIEW ST.
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ISSUED

#	DATE	DESCRIPTION
	04/06/2023	DSA BACKCHECK SUBMITTAL

PROJECT IDENTIFICATION

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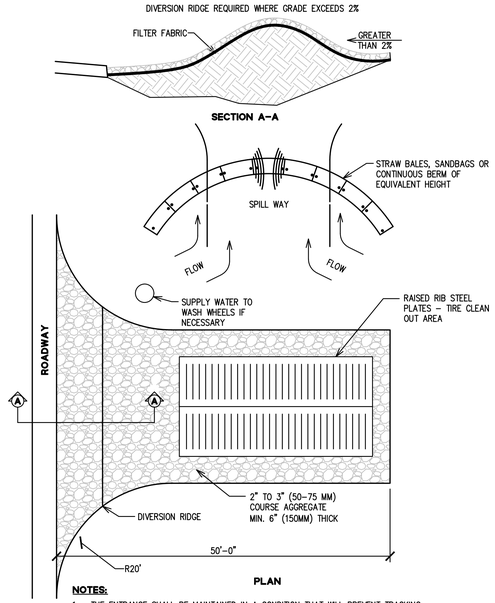
SHEET TITLE

EROSION CONTROL PLAN

SHEET NUMBER

C6.1

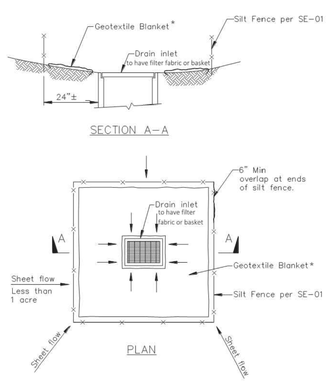
DSA SUBMITTAL



NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT OF WAYS. THIS MAY REQUIRED TOP DRESSING, REPAIR AND / OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT OF WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ONTO AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

1 – STABILIZED CONSTRUCTION ENTRANCE
NTS

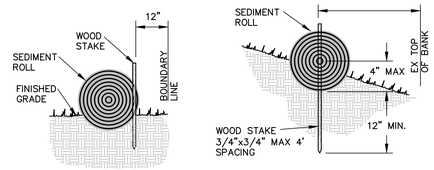


DI PROTECTION TYPE 1
NOT TO SCALE

NOTES:

1. For use in areas where grading has been completed and final soil stabilization and seeding are pending.
2. Not applicable in paved areas.
3. Not applicable with concentrated flows.

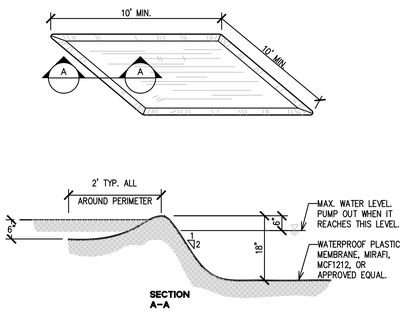
2 – STORM DRAIN INLET PROTECTION
NTS



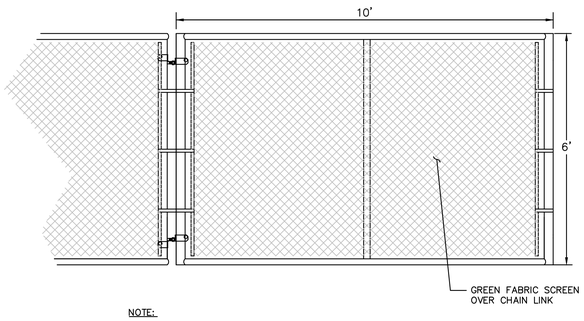
INSTALLATION PROCEDURE:

1. FIBER ROLLS ARE TUBES MADE FROM POROUS BIODEGRADABLE FIBER STUFFED IN A PHOTO-DEGRADABLE OPEN WEAVE NETTING. THEY ARE APPROX. 8" DIAMETER.
2. FIBER ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 2"-4" DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL. ROLLS SHOULD BE ABUTTED SECURELY TO PROVIDE A TIGHT JOINT, NOT OVERLAPPED.

3 – FIBER ROLL DETAIL
NTS



4 – WASHOUT PIT
NTS



NOTE:

1. CONTRACTOR TO PROVIDE TEMPORARY CHAIN LINK CONSTRUCTION FENCE WITH SAND BAGS FOR ANCHORING.
2. INSTALL "CONSTRUCTION SITE, NO TRESPASSING" SIGNS. ENSURING SIGNS ARE LEGIBLE FROM 5' AWAY.

5 – CONSTRUCTION FENCE
NTS

GRAPHIC SCALE
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DSA STAMP

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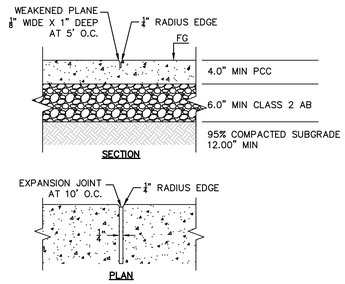
EROSION CONTROL DETAILS

SHEET NUMBER

C6.2

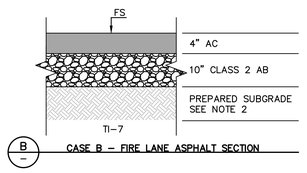
DSA SUBMITTAL



NOTES:

1. THIS SECTION TO BE USED IN LOCATIONS WHERE NEW CONCRETE PAVEMENT IS REQUIRED FOR PEDESTRIAN TRAFFIC, SUCH AS SIDEWALKS AND WALKWAYS.
2. SUBGRADE IS TO BE COMPACTED NATIVE SOIL AT 95% RELATIVE COMPACTION. KEEP THE MOISTURE CONTENT SLIGHTLY ABOVE OPTIMUM.
3. POSITIVE DRAINAGE SHOULD BE PROVIDED AWAY FROM ALL PAVEMENT AREAS TO PREVENT SEEPAGE OF SURFACE AND/OR SUBSURFACE WATER INTO THE PAVEMENT BASE AND/OR SUBGRADE
4. THE EXPANSION POTENTIAL OF THE SITE SOILS SHOULD BE VERIFIED AFTER GRADING. IF THE EXPANSION POTENTIAL OF MIXED SOIL IS FOUND TO BE ABOVE 20, CONVERSE RECOMMENDS MIXING ON-SITE SOIL USED FOR SUPPORT OF WALKWAYS AND PAVEMENTS WITH 5% CEMENT TO REDUCE EXPANSION POTENTIAL.
5. WEAKENED PLANE: 1/8" WIDE x 1" DEEP AT 4' OR 6' O.C.
6. EXPANSION JOINTS: MATERIAL TO BE 1/4" THICK PREMOLDED JOINT FULL THICKNESS OF CONCRETE 50' O.C.

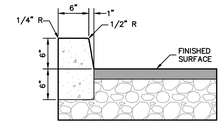
1 PEDESTRIAN CONCRETE SIDEWALK
NTS



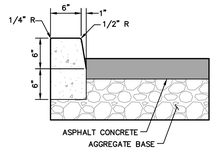
NOTES:

1. THIS SECTION TO BE USED IN LOCATIONS WHERE NEW ASPHALT PAVEMENT IS REQUIRED FOR VEHICULAR TRAFFIC.
2. SUBGRADE IS TO BE COMPACTED NATIVE SOIL AT 90% RELATIVE COMPACTION FOR 12.00" MIN. KEEP THE MOISTURE CONTENT SLIGHTLY ABOVE OPTIMUM.
3. POSITIVE DRAINAGE SHOULD BE PROVIDED AWAY FROM ALL PAVEMENT AREAS TO PREVENT SEEPAGE OF SURFACE AND/OR SUBSURFACE WATER INTO THE PAVEMENT BASE AND/OR SUBGRADE.
4. PAVEMENT SECTION DESIGN IS PER THE 2021 GEOTECHNICAL ENGINEERING REPORT FOR THE CYPRESS COLLEGE TECH ED III BUILDING RENOVATION PROJECT, BY GEOTECHNICAL SOLUTIONS, INC, PAGE 39 OF REPORT.

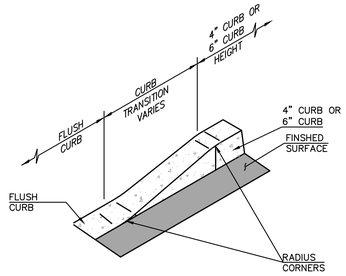
2 VEHICULAR ASPHALT SECTION
NTS



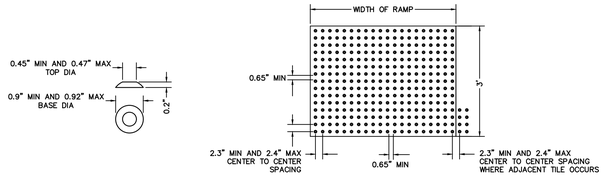
3 6" CURB DETAIL
NTS



4 4" CURB DETAIL
NTS



5 CURB TRANSITION
NTS

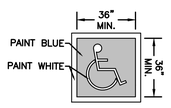


RAISED TRUNCATED DOME RAISED TRUNCATED DOME PATTERN

NOTES:

1. DETECTABLE WARNING SURFACE SHALL MEET SPECIFICATIONS PER CBC 11B-705.1
2. TRUNCATED DOMES SHALL ALIGN WITH THE RAMP IN THE DIRECTION OF TRAVEL.
3. AT CURB RAMPS, FRONT EDGE OF DETECTABLE WARNING SURFACE SHALL BE BETWEEN 6 AND 8 INCHES OF FACE OF CURB.
4. DETECTABLE WARNING SURFACES SHALL BE YELLOW AND APPROXIMATE FS 33538 OF SAE AMS-STD-595A.

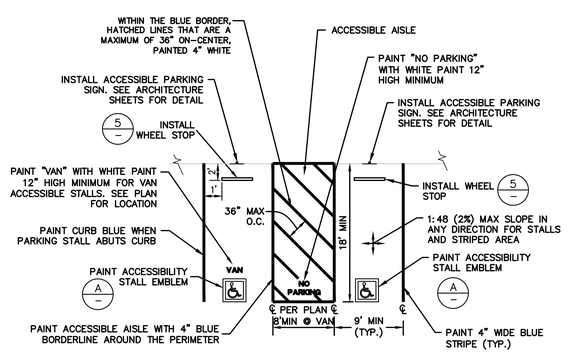
6 DETECTABLE WARNING SURFACE
NTS



NOTES:

1. PARKING STALLS MARKING SHALL COMPLY WITH CBC 2019 SECTION 11B-502.6.4.1
2. PAINT SYMBOL AND PERIMETER WITH (2) COATS OF TRAFFIC WHITE
3. PAINT SYMBOL BACKGROUND WITH (2) COATS OF TRAFFIC BLUE (COLOR FS-15090 IN FED. STD. 595C)
4. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL COMPLY WITH FIGURE 11B-703.7.2.1.

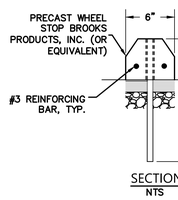
A INTERNATIONAL SYMBOL OF ACCESSIBILITY STALL EMBLEM



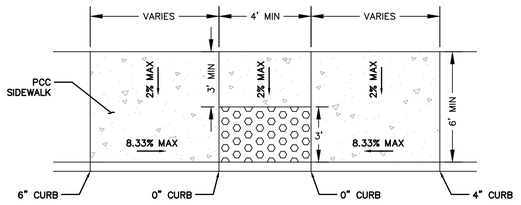
NOTES:

1. ACCESSIBLE AISLES SHALL BE MARKED WITH A BLUE PAINTED BORDERLINE AROUND THEIR PERIMETER PER CBC 2019 SECTION 11B-502.3.3.

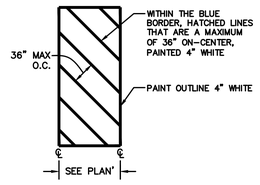
7 ACCESSIBLE PARKING
NTS



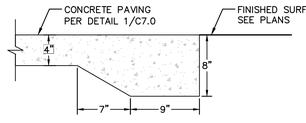
8 CONCRETE WHEELSTOP
NTS



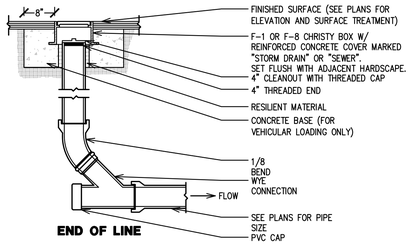
12 CURB RAMP
NTS



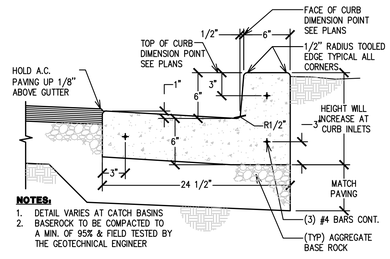
9 CROSSWALK
NTS



13 CONCRETE PAVING EDGE
NTS



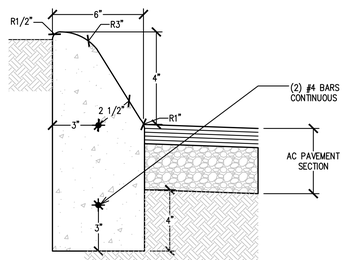
15 CLEANOUT - COMMERCIAL
NTS



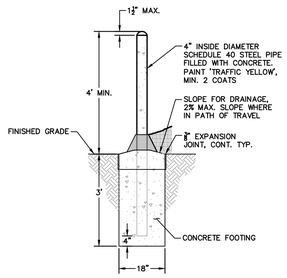
NOTES:

1. DETAIL VARIES AT CATCH BASINS
2. BASEROCK TO BE COMPACTED TO A MIN. OF 95% & FIELD TESTED BY THE GEOTECHNICAL ENGINEER

16 6" CURB & GUTTER
NTS

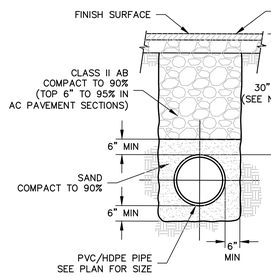


17 ROLLED CURB
NTS



LOCATE 6-FEET ON CENTER.

11 BOLLARD
NTS

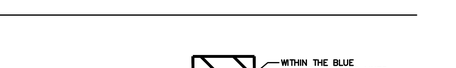


UTILITY TRENCH

NOTES:

1. FOR TRENCHES IN LANDSCAPE AREAS THAT CROSS HARDSCAPE, BACKFILL WITH APPROVED NATIVE MATERIALS AS DETAILED IN THE GEOTECHNICAL REPORT.
2. FOR TRENCHES INSTALLED IN EXISTING CONCRETE, THE CONCRETE MUST BE RESTORED WITH DOWELS. FINISHED SURFACE TO ALIGN WITH EXISTING SURFACE.
3. PRIVATE FIRE SERVICE MAINS INSTALLED UNDER DRIVEWAYS OR ROADWAYS SHALL BE BURIED AT A MINIMUM DEPTH OF 3 FEET. (NFPA 10.4.2.2.3)

14 TYPICAL UTILITY TRENCH
NTS



10 ASPHALT BERM
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DETAILS

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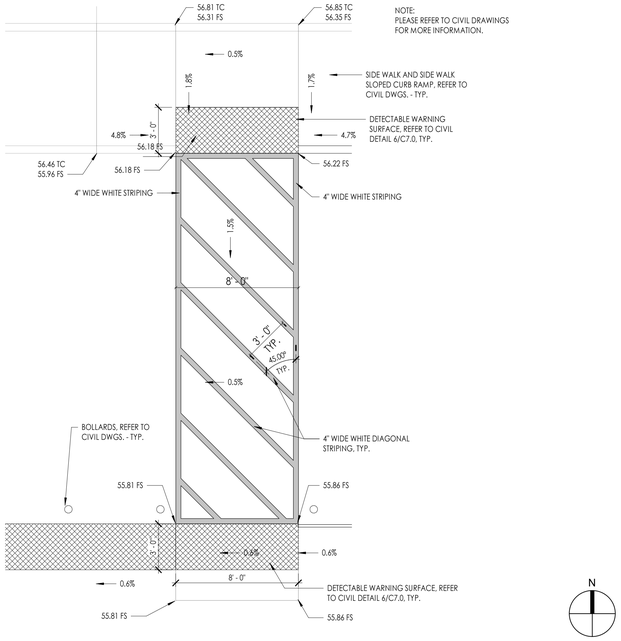
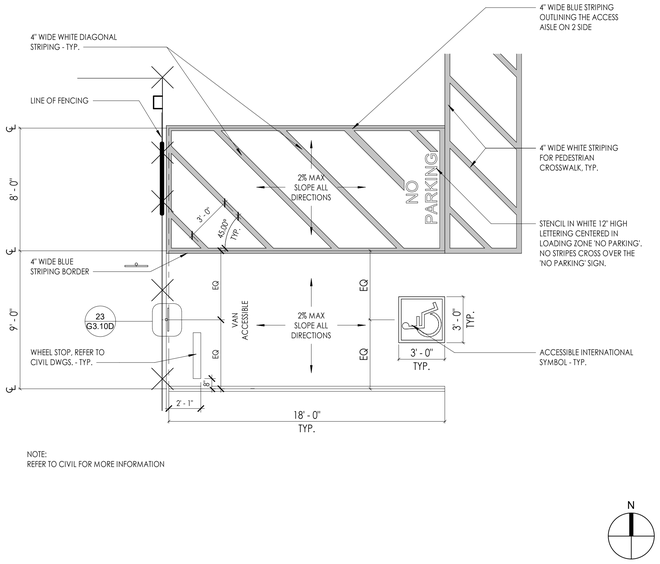
C7.0

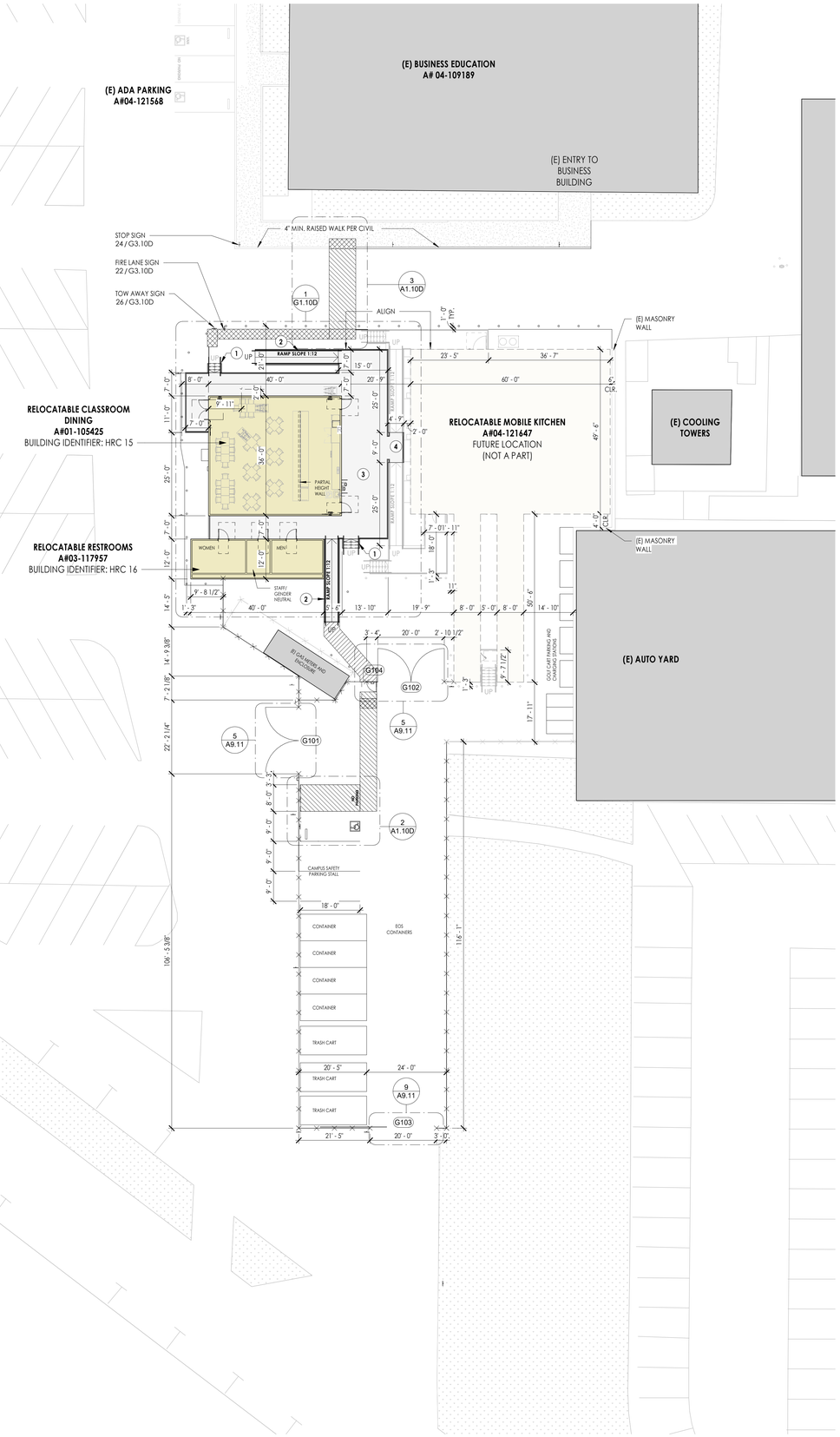
DSA SUBMITTAL



PEDESTRIAN CROSSWALK SCALE 1/4" = 1'-0" | 3



ACCESSIBLE PARKING STALL - SINGLE SCALE 1/4" = 1'-0" | 2



SITE PLAN SCALE 1/16" = 1'-0" | 1

LEGEND - SITE PLAN

- (N) RELOCATABLE BUILDING
- (N) METAL DECK
- (E) BUILDING
- (E) PAVING
- (E) SIDEWALK
- (N) BOLLARDS
- (N) DETECTABLE WARNING SURFACE, PER TO CIVIL, TYP.
- (E) FENCE TO REMAIN
- (N) FENCE - CHAIN LINK 8'-0" HEIGHT, SEE A9.11
- (N) MANUAL SWING GATE*, CHAIN LINK 8'-0" HEIGHT, SEE A9.11
- (N) MANUAL SLIDING GATE*, CHAIN LINK 8'-0" HEIGHT, SEE A9.11

* MANUAL GATES TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED

SITE PLAN - GENERAL NOTES

1. PROTECT IN PLACE ALL EXISTING VEGETATION, IMPROVEMENTS, STRUCTURES AND UNDERGROUND UTILITIES WHICH ARE TO REMAIN
2. PATCH AND REPAIR EXISTING HARDSCAPE AND LANDSCAPE AS NEEDED AT BUILDING PERIMETER AREAS WHERE DEMOLITION WORK AT THE EXTERIOR AFFECTS THE EXISTING SITE CONDITION.
2. VERIFY IN FIELD ALL EXISTING CONDITIONS THAT IN WORK SCOPE OR MAY BE AFFECTED BY NEW WORK.
3. PLEASE REFER TO A#04-121545 FOR GRADING AND OTHER SITE INFORMATION.
4. CONTRACTOR TO PROVIDE TEMPORARY PEDESTRIAN PROTECTION.
5. CONTRACTOR TO PROVIDE TEMPORARY CONSTRUCTION GATES AT ALL ENTRANCES TO THE PROJECT.
6. ALL BUILDING ENTRANCES & EXTERIOR GROUND LEVEL EXITS SHALL HAVE A 1.9% MAX. (MIN. 5'-0") SLOPE AWAY FROM DOORS.
7. PATH OF TRAVEL (P.O.T.) NOTES:
   - PATH OF TRAVEL (P.O.T.) AS INDICATED IS A BARRIER FREE ACCESSIBLE ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" BEVELED AT A SLOPE NOT STEEPER THAN 1:2, EXCEPT THAT LEVEL CHANGES ARE 1/4" MAXIMUM VERTICAL, AND IS AT LEAST 48" WIDE.
   - SURFACE SHALL BE STABLE, FIRM AND SLIP RESISTANT, CROSS-SLOPE SHALL NOT BE STEEPER THAN 1:48 AND RUNNING SLOPE SHALL NOT BE STEEPER THAN 1:20 UNLESS OTHERWISE INDICATED (SECTION 11B-403.3).
   - P.O.T. SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MIN. (SECTION 11B-307.4) AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL SURFACE BETWEEN 27" AND 80" ABOVE FINISH FLOOR OR GROUND (SECTION 11B-307.2)
   - PROVIDE FLUSH TRANSITIONS AT ANY ADJOINING JOINTS BETWEEN NEW AND EXISTING (E) WALK SURFACES IN P.O.T.
8. PLEASE REFER TO A#04-121545 PLUMBING AND ELECTRICAL SITE PLANS FOR ADDITIONAL NOTES PERTAINING TO P.O.T AND TO ALL SITE UTILITY WORK.
9. PLEASE REFER TO G1.10K, AND A#04-121545 FOR SIGNAGE.

ARCHITECTURAL SITE PLAN KEYNOTES

1. REFER TO R.7 FOR MANUFACTURER DRAWINGS.
2. ACCESSIBLE RAMP, REFER TO R.2 FOR TYPICAL MANUFACTURER DRAWINGS.
3. PLATFORM DECK, REFER TO R1.0-PS FOR MANUFACTURER DRAWINGS.
4. PRE-FAB LANDING, REFER TO R-7 FOR MANUFACTURER DRAWINGS.

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SEAL

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12/31/2023
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANTS

PROJECT TITLE

HRC TEMP RELOCATABLE CLASSROOM & RESTROOM
9200 VALLEY VIEW ST.
CYPRESS, CA 90630

Cypress College

CYPRESS COMMUNITY COLLEGE
9200 VALLEY VIEW ST.
CYPRESS, CA 90630

ISSUED

#	DATE	DESCRIPTION
	04/06/2023	DSA BACKCHECK SUBMITTAL

PROJECT IDENTIFICATION

THE DRAWINGS IN THE SHEET INDEX WERE ORIGINALLY CREATED IN AUTODESK REVIT V. 2018 UNLESS OTHERWISE NOTED.

THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42".

SHEET TITLE

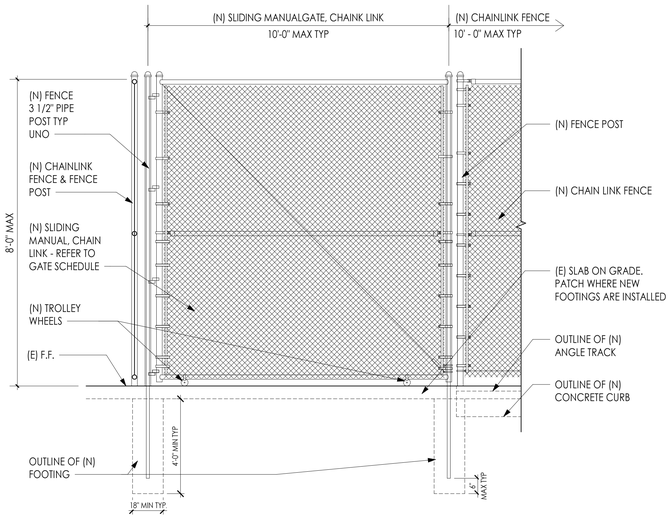
SITE PLAN & DETAILS - CLASSROOM DINING

SHEET NUMBER

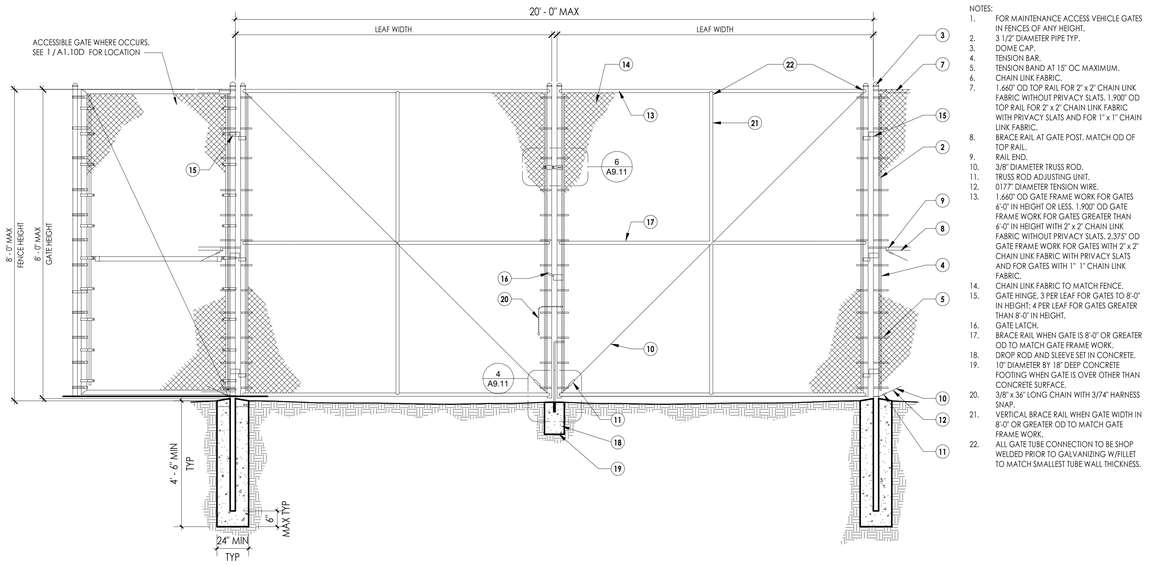
A1.10D

DSA SUBMITTAL

NOTE:
1. ALL (E) CONDITIONS ARE TO REMAIN, U.O.N. AND PROTECT. GC TO V.I.F. ALL EXISTING DIMENSIONS, CONDITIONS AND COORDINATE W/ ARCHITECT FOR ANY DISCREPANCIES.
2. REFER TO 6/G4.10 FOR MORE INFORMATION.



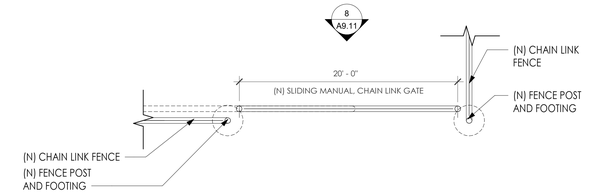
ELEVATION - CHAIN LINK FENCE / GATE G103 | **8**



NOTES:
1. FOR MAINTENANCE ACCESS VEHICLE GATES IN FENCES OF ANY HEIGHT.
2. 3 1/2" DIAMETER PIPE TYP.
3. DOME CAP.
4. TENSION BAR.
5. TENSION BAND AT 15" OC MAXIMUM.
6. CHAIN LINK FABRIC.
7. 1.660" OD TOP RAIL FOR 2' x 2" CHAIN LINK FABRIC WITHOUT PRIVACY SLATS. 1.900" OD TOP RAIL FOR 2' x 2" CHAIN LINK FABRIC WITH PRIVACY SLATS AND FOR 1" x 1" CHAIN LINK FABRIC.
8. BRACE RAIL AT GATE POST. MATCH OD OF TOP RAIL.
9. RAIL END.
10. 3/8" DIAMETER TRUSS ROD.
11. TRUSS ROD ADJUSTING UNIT.
12. 0177" DIAMETER TENSION WIRE.
13. 1.660" OD GATE FRAME WORK FOR GATES 6'-0" IN HEIGHT OR LESS. 1.900" OD GATE FRAME WORK FOR GATES GREATER THAN 6'-0" IN HEIGHT WITH 2" x 2" CHAIN LINK FABRIC WITHOUT PRIVACY SLATS. 2.375" OD GATE FRAME WORK FOR GATES WITH 2' x 2' CHAIN LINK FABRIC WITH PRIVACY SLATS AND FOR GATES WITH 1" 1" CHAIN LINK FABRIC.
14. CHAIN LINK FABRIC TO MATCH FENCE.
15. GATE HINGE. 3 PER LEAF FOR GATES TO 8'-0" IN HEIGHT; 4 PER LEAF FOR GATES GREATER THAN 8'-0" IN HEIGHT.
16. GATE LATCH.
17. BRACE RAIL WHEN GATE IS 8'-0" OR GREATER OD TO MATCH GATE FRAME WORK.
18. DROP ROD AND SLEEVE SET IN CONCRETE.
19. 10" DIAMETER BY 18" DEEP CONCRETE FOOTING WHEN GATE IS OVER OTHER THAN CONCRETE SURFACE.
20. 3/8" x 36" LONG CHAIN WITH 3/4" HARNESS SNAP.
21. VERTICAL BRACE RAIL WHEN GATE WIDTH IN 8'-0" OR GREATER OD TO MATCH GATE FRAME WORK.
22. ALL GATE TUBE CONNECTION TO BE SHOP WELDED PRIOR TO GALVANIZING W/FILLET TO MATCH SMALLEST TUBE WALL THICKNESS.

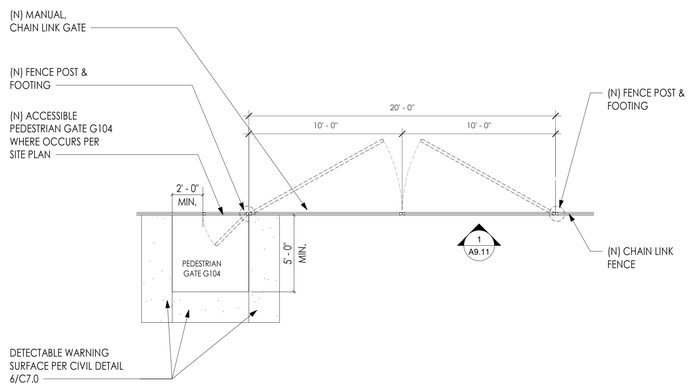
ELEVATION - DOUBLE LEAF VEHICLE GATE / GATE G101 / GATE G102 | **1**

NOTES:
1. FIELD VERIFY ALL DIMENSIONS PRIOR TO NEW WORK.
2. FOR NEW FENCE/GATE POST FOOTING AT (E) CONCRETE PAVING, CAREFULLY SAWCUT (E) CONCRETE SLAB/ FLATWORK TO AVOID OVERCUT MARKS. MATCH (E) CONCRETE TEXTURE FOR CLEAN TRANSITION.
3. ALL (E) CONDITIONS ARE TO REMAIN, U.O.N. AND PROTECT. GC TO V.I.F. ALL EXISTING DIMENSIONS, CONDITIONS AND COORDINATE W/ ARCHITECT FOR ANY DISCREPANCIES.
4. REFER TO GATE SCHEDULE FOR MORE INFORMATION.

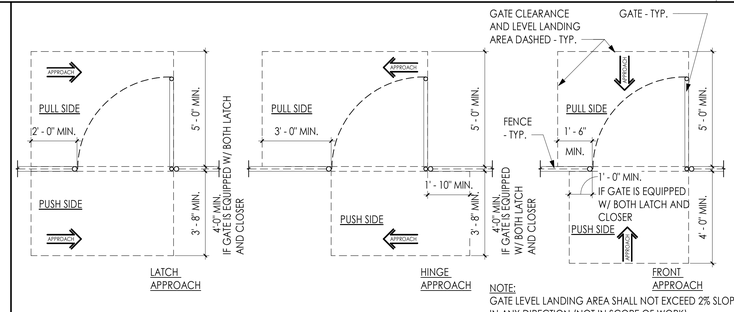


ENLARGED PLAN - GATE G103 SCALE 1/2" = 1'-0" | **9**

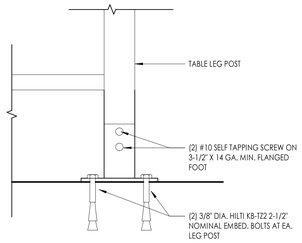
NOTES:
1. FIELD VERIFY ALL DIMENSIONS PRIOR TO NEW WORK.
2. FOR NEW FENCE/GATE POST FOOTING AT (E) CONCRETE PAVING, CAREFULLY SAWCUT (E) CONCRETE SLAB/ FLATWORK TO AVOID OVERCUT MARKS. MATCH (E) CONCRETE TEXTURE FOR CLEAN TRANSITION.
3. ALL (E) CONDITIONS ARE TO REMAIN, U.O.N. AND PROTECT. GC TO V.I.F. ALL EXISTING DIMENSIONS, CONDITIONS AND COORDINATE W/ ARCHITECT FOR ANY DISCREPANCIES.
4. REFER TO GATE SCHEDULE FOR MORE INFORMATION.



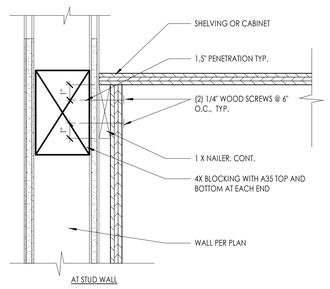
ENLARGED PLAN - GATE G101 / G102 / G104 SCALE 1/4" = 1'-0" | **5**



CLEARANCES AT ACCESSIBLE GATE SCALE 3/8" = 1'-0" | **2**



TYPICAL WORK TABLE FLOOR ANCHOR SCALE 3" = 1'-0" | **12**



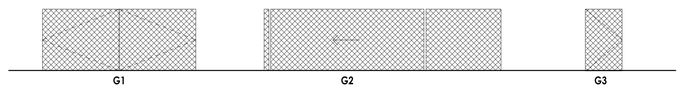
TYPICAL WALL-MOUNTED CABINET & SHELVING ANCHOR (SINK SIMILAR) SCALE 3" = 1'-0" | **10**

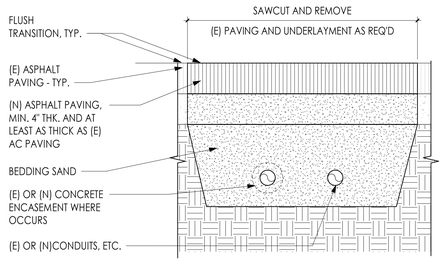
GATE SCHEDULE

GATE NO.	DOOR PAIR	DOOR WIDTH	DOOR HEIGHT	DOOR TYPE	DOOR CONSTR.	PANIC HARDWARE	REMARKS/ KEYNOTES
G101	X	20'-0"	8'-0"	G1	CHAIN LINK	-	A, B, C, D
G102	X	20'-0"	8'-0"	G1	CHAIN LINK	-	A, C, D
G103		20'-0"	8'-0"	G2	CHAIN LINK	-	A, C, D
G104		3'-0"	8'-0"	G3	CHAIN LINK	-	A, B, C, D

GATE - REMARKS / KEYNOTES

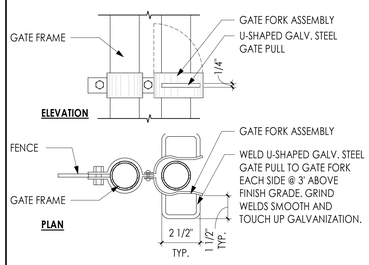
A. CHAIN LINK GATE, SEE DETAILS 4 AND 6/A9.11.
B. FIRE DEPARTMENT KEY BOX, SEE DETAIL 4/G4.10.
C. PROVIDE LATCH ASSEMBLY, MODEL #16758, MANUFACTURER: "MASTER HALCO" OR EQUAL.
D. CHAIN LINK GATE/FENCE SHOULD HAVE WHITE VINYL SLATS TO MATCH EXISTING CHAIN LINK FENCE.



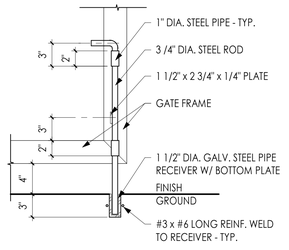


NOTE:
1. ALL PATCHES TO PEDESTRIAN SURFACES SHALL COMPLY WITH CBC 11B-302.1 AND 11B-303, TYP.
2. REPLACE BASE TO ORIGINAL CONDITION AND RECOMPACT SOIL TO 90% OPTIMUM.

TYPICAL ASPHALT PAVING PATCH SCALE 1 1/2" = 1'-0" | **11**



GATE LATCH SCALE 3" = 1'-0" | **6**



GATE DROP ROD SCALE 1 1/2" = 1'-0" | **4**

GATE SCHEDULE

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12/31/2023
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANTS

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CYPRESS, CA 90630

Cypress College

CYPRESS COMMUNITY COLLEGE
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ISSUED

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	04/06/2023	DSA BACKCHECK SUBMITTAL

PROJECT IDENTIFICATION
THE DRAWINGS IN THE SHEET INDEX WERE ORIGINALLY CREATED IN AUTODESK REVIT V. 2018 UNLESS OTHERWISE NOTED.
THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42".

SHEET TITLE
DETAILS

SHEET NUMBER
A9.11

DSA SUBMITTAL

GENERAL NOTES

1 THESE PLANS ARE A GENERAL ARRANGEMENT OF EQUIPMENT FOR THE CONVENIENCE OF CONTRACTORS AND IS MADE FROM AVAILABLE INFORMATION. WEBB FOODSERVICE DESIGN ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE MEASUREMENTS. FABRICATORS, CONTRACTORS, AND OTHERS UTILIZING THESE PLANS IN CONNECTION WITH THIS JOB ARE RESPONSIBLE FOR SECURING THEIR OWN MEASUREMENTS FOR PREPARATION OF SUBMITTALS AND CONSTRUCTION. PLUMBING AND ELECTRICAL INFORMATION INDICATED ON THESE PLANS ARE GENERALLY FOR FOOD SERVICE EQUIPMENT AND ARE INTENDED AS REFERENCE ONLY. WEBB FOODSERVICE DESIGN IS NOT RESPONSIBLE FOR THE ENGINEERING THEREOF OR FOR ANY PLUMBING OR ELECTRICAL FITTINGS, WORK, AND/OR CONNECTIONS UNLESS SPECIFICALLY PROVIDED FOR IN THE SPECIFICATIONS. WEBB FOODSERVICE DESIGN ASSUMES NO RESPONSIBILITY FOR THE WORK DONE BY THE CONTRACTORS NOR FOR ANY CHANGES MADE NECESSARY BY THE LOCAL BUILDING CODES, ORDINANCES, STRUCTURAL CONDITIONS, OR BY THE SUBSTITUTION OR CHANGES MADE NECESSARY IN EQUIPMENT SHOWN ON THIS PLAN. THE PLANS AND DESIGNS CONTAINED HEREIN ARE THE PROPERTY OF WEBB FOODSERVICE DESIGN AND MAY NOT BE REPRODUCED OR USED BY ANYONE, EITHER ALL OR IN PART, WITHOUT FIRST SECURING THE WRITTEN PERMISSION OF WEBB FOODSERVICE DESIGN.

2 CONTRACTORS ARE TO MAKE ALLOWANCE FOR ELBOWS, TRAPS, ETC. AND ARE TO MAKE FINAL CONNECTIONS ON THE JOB, SUPPLYING ALL NECESSARY VALVES, TRAPS, STEAM TRAPS, FAUCETS, STARTING SWITCHES FOR MOTORS, ETC. EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE IN THE WRITTEN SPECIFICATIONS.

3 ANY DISCREPANCIES BETWEEN PLANS, BUILDING, AND LOCAL CODE REQUIREMENTS THAT MAY AFFECT THE INSTALLATION, FABRICATION, OR OVERALL WORK IN ANY WAY SHALL BE BROUGHT TO THE ATTENTION OF THE FOOD SERVICE EQUIPMENT CONTRACTOR IMMEDIATELY.

4 IT SHALL BE THE RESPONSIBILITY OF THE OWNER, ARCHITECT, ENGINEERS, AND/OR GENERAL CONTRACTOR TO INSURE THAT THE FOOD SERVICE EQUIPMENT CONTRACTOR RECEIVES COPIES OF ALL ADDENDUMS AND CHANGES TO THE BUILDING PLANS, PRIOR TO, OR DURING CONSTRUCTION WHEREAS, ADDENDUMS AND/OR CHANGES AFFECT ANY AREAS PERTINENT TO THE FOOD AND BEVERAGE PORTION OF THE PROJECT.

5 IF THERE ARE ANY AMBIGUITIES, DISCREPANCIES, OR IRREGULARITIES, VERIFY WITH ARCHITECTURAL TEAM PRIOR TO COMMENCING WORK.

6 ALL WORK IS TO BE COMPLETED IN CRAFTSMAN LIKE MANNER AND CONFORM TO ALL APPLICABLE BUILDING AND SAFETY CODES.

7 REFER TO ARCHITECTURAL PLANS FOR ADA CLEARANCE REQUIREMENTS FOR ALL SPACES, DOOR STRIKES, EXITS, AND AISLE WAYS AS THEY PERTAIN TO CODE ENFORCEMENT AND INTERPRETATION.

8 CONTRACTORS SHALL SUBMIT ALL SHOP DRAWINGS, FINISHES, STAINS, AND COLORS TO THE ARCHITECTURAL TEAM FOR APPROVAL PRIOR TO FABRICATION.

9 SEE ENGINEERING DOCUMENTS FOR TITLE 24 ENGINEERING CALCULATIONS FOR BUILDING PERMIT REQUIREMENTS.

10 CONTRACTOR TO VERIFY ALL EQUIPMENT CLEARANCES THRU BUILDING DOORS, HALLWAYS, OR ENTRY POINTS. NOT ALL EQUIPMENT WILL FIT THRU STANDARD DOOR OPENINGS.

11 ALL DRAWINGS BY WEBB FOODSERVICE DESIGN ARE FOOD SERVICE EQUIPMENT CONTRACT DOCUMENTS ONLY TO BE USED BY CONSULTANTS/ARCHITECTS AND FOR BIDDING, NOT FOR CONSTRUCTION.

12 VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE PRIOR TO PROCEEDING WITH WORK.

13 PARTITIONS ARE DIMENSIONED FROM FINISHED SURFACE, UNLESS OTHERWISE NOTED.

14 ALL HORIZONTAL DIMENSIONS ARE FROM FINISHED FACE OF WALL TO FINISHED FACE OF WALL OR CENTERLINE OF COLUMN.

15 ALL VERTICAL DIMENSIONS ARE FROM FINISHED FLOOR TO WALL OR WALL OPENING.

16 PROVIDE SMOOTH AND LEVEL FLOORS BELOW ALL KITCHEN EQUIPMENT UNLESS THESE DRAWINGS SHOW OTHERWISE.

17 GENERAL CONTRACTOR TO PROVIDE AND INSTALL BLOCKING IN WALLS FOR MOUNTING WALL SHELVES, POT RACKS, DISPLAY CASES, HOSE REELS, ETC., AS SHOWN ON PLANS.

18 WHERE REQUIRED, SPRINKLER HEADS IN WALK-IN FREEZER WILL BE PROVIDED BY AND PROTECTED AGAINST FREEZING BY GENERAL CONTRACTOR.

19 LEVEL PLATFORMS CONSTRUCTED PER CODE AND LOCATED ON ROOF ARE REQUIRED FOR COMPRESSOR RACKS. REFER TO ARCHITECTURAL AND MECHANICAL PLANS FOR LOCATIONS AND DETAILS. GENERAL CONTRACTOR TO PROVIDE ACCESS FOR DELIVERY AND INSTALLATION OF EACH COMPRESSOR RACK.

20 SEE STRUCTURAL ENGINEER AND/OR ARCHITECTURAL PLANS FOR STRUCTURAL SUPPORT REQUIREMENTS OF ROOF SUPPORTING ALL FOOD SERVICE EQUIPMENT SUCH AS COMPRESSOR RACKS, EXHAUST AND MAKE-UP AIR SYSTEMS, AIR CONDITIONING, ETC., PRIOR TO BEGINNING CONSTRUCTION.

21 ROOF JACKS AND PENETRATIONS THROUGH ROOF ARE REQUIRED FOR REFRIGERATION LINES. SEE ARCHITECTURAL PLANS FOR DETAILS. (VERIFY LOCATION WITH REFRIGERATION CONTRACTOR)

22 ARCHITECT AND/OR MECHANICAL ENGINEER TO PROVIDE ADEQUATE VENTILATION AND COOLING FOR SPACES CONTAINING SELF-CONTAINED REFRIGERATION AND OTHER FOOD SERVICE EQUIPMENT EMITTING HEAT.

23 INTENDED ENVIRONMENT FOR REFRIGERATED GLASS FRONT & OPEN FRONT DISPLAY CASE, INCLUDING GLASS DOORS ON WALK-IN REFRIGERTORS AND FREEZERS IS 75ºF/55% RELATIVE HUMIDITY. VERIFY WITH MECHANICAL DRAWINGS.

24 FOOD SERVICE FACILITIES REQUIRE A DESIGNATED HOT WATER SUPPLY FOR FOODHANDLING AREAS, WAREWASHING AREAS, JANITOR SINKS AND EMPLOYEE RESTROOMS. REFER TO MECHANICAL AND/OR PLUMBING DRAWINGS.

25 HOT WATER SUPPLY TO POT AND PREPARATION SINKS SHALL BE 120 DEGREES MINIMUM. HOT WATER SUPPLY TO ALL DISH MACHINES SHALL BE 120 DEGREES MINIMUM.

26 ALL MATERIALS FOR FLOORS, WALLS, AND CEILINGS SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.

27 GENERAL CONTRACTOR SHALL ENSURE THAT ALL HARDWOOD PLYWOOD (HWPW), PARTICLE BOARD (PB), AND MEDIUM DENSITY FIBERBOARD (MDF) USED TO MAKE FINISHED GOODS, SUCH AS FURNITURE, CABINETS, COUNTERTOPS, SHELVING, FLOORING, MOLDING, ETC., SHALL COMPLY WITH THE CALIFORNIA AIR RESOURCES BOARD (CARB) AIRBORNE TOXIC CONTROL MEASURE (ATCM) TO REDUCE FORMALDEHYDE EMISSIONS IN COMPOSITE WOOD PRODUCTS. THE ATCM APPLIES TO PANEL MANUFACTURERS, THIRD PARTY CERTIFIERS, DISTRIBUTORS, IMPORTERS, FABRICATORS, AND RETAILERS OF HWPW, PB, MDF, AND FINISHED GOODS CONTAINING THESE PRODUCTS (INCLUDING LAMINATED PRODUCTS), SOLD OR DELIVERED TO CALIFORNIA, AND APPLIES TO DOMESTIC AND IMPORTED PRODUCTS.

28 COUNTERS ARE TO BE FABRICATED PROPERLY TO SUPPORT THE SPECIFIED COUNTER TOP MATERIAL IN ACCORDANCE WITH THE MATERIAL MANUFACTURER'S GUIDELINES.

29 ALL "DROP-IN" EQUIPMENT AND OTHER EQUIPMENT "ATTACHED TO", "SET ON", OR "BUILT-IN" TO THE COUNTERTOP MATERIAL IS TO BE INSTALLED IN ACCORDANCE WITH THE MATERIAL MANUFACTURER'S GUIDELINES AND TECHNICAL BULLETINS FOR THE INSTALLATION OF COMMERCIAL FOOD SERVICE EQUIPMENT.

ENVIRONMENTAL NOTES

1 ALL FOOD-RELATED AND UTENSIL RELATED EQUIPMENT SHALL BEAR THE ANSI/NSF EMBLEM AND/OR BE MANUFACTURED OR FABRICATED IN ACCORDANCE WITH APPROPRIATE ANSI/NSF STANDARD. SPECIFICALLY STANDARD 2 AND FOR ALL REFRIGERATED EQUIPMENT STANDARD 7.

2 FLOORS IN FOOD PREPARATION, FOOD STORAGE, WAREWASHING, JANITORIAL, HANDWASHING AND TOILET AREAS SHALL BE SMOOTH AND IMPERVIOUS TO WATER, GREASE, AND ACID AND OF EASILY CLEANABLE CONSTRUCTION WITH 6" CONTINUOUS SELF-COVED BASE WITH 3/8" RADIUS. WHERE EQUIPMENT IS INSTALLED ON A CURB, SELF-COVED BASE IS TO EXTEND 4".

3 AT EXTERIOR TRASH HOLDING AREAS, A CONCRETE SLAB MUST BE PROVIDED FOR TRASH , GARBAGE AND GREASE CONTAINERS. IF WALLS ENCLOSE THE AREA, THE INTERIOR WALL SURFACES ARE TO BE SMOOTH, SEALED AND WASHABLE (E.G. PLASTERED SMOOTH AND PAINTED, ETC.)

4 ALL FLOOR MOUNTED EQUIPMENT WILL BE INSTALLED ON MINIMUM 6" SANITARY LEGS, CASTERS OR COMPLETELY SEALED IN POSITION ON A 4" HIGH CURB WITH CONTINUOUSLY COVED BASE. COUNTER TOP EQUIPMENT SHALL BE MOUNTED ON 4" SANITARY LEGS OR SEALED TO THE COUNTER UNLESS READILY MOVEABLE.

5 ALL REFRIGERATION EQUIPMENT SHALL HAVE A THERMOMETER WHICH IS EASILY READABLE AND IN PROPER WORKING CONDITION.

6 WALLS IN FOOD PREPARATION AREAS AND DISHWASHING AREAS SHALL BE SMOOTH AND NON-ABSORBENT WITH A LIGHT COLORED, EASILY CLEANABLE FINISH. ALL PAINTED SURFACES SHALL BE SEALED WITH A GLOSS OR SEMI-GLOSS ENAMEL.

7 CEILINGS IN KITCHEN PREPARATION AREAS SHALL BE SMOOTH AND NON-ABSORBENT WITH A LIGHT COLORED, EASILY CLEANABLE FINISH. ALL PAINTED SURFACES SHALL BE SEALED WITH A GLOSS OR SEMI-GLOSS FINISH.

8 LAVATORY (HANDWASHING) SINKS SHALL BE PROVIDED IN THE FOOD PREPARATION, FOOD SERVING AND WAREWASHING AREAS. SOAP AND SANITARY TOWELS SHALL BE PROVIDED IN SINGLE SERVICE, PERMANENTLY INSTALLED DISPENSERS AT THE LAVATORY SINKS. ALL HANDWASHING SINKS SHALL HAVE A COMBINATION FAUCET OR PREMIXING FAUCET. PRE-MIXING FAUCETS MUST BE CAPABLE OF SUPPLYING WATER TEMPERED TO 100 F TO 108 F AND BE SELF CLOSING OR METERED TO PROVIDE AT LEAST 15 SECONDS OF WATER WITHOUT REACTIVATION.

9 TOILET FACILITIES SHALL BE PROVIDED WITHIN EACH FOOD ESTABLISHMENT CONVENIENT FOR THE EMPLOYEES.

10 ALL TOILET ROOMS, JANITOR CLOSETS WITH JANITOR SINKS, INDOOR TRASH ROOMS AND DRESSING/CHANGE ROOMS SHALL BE PROVIDED WITH MECHANICAL VENTILATION, LIGHTS AND SWITCHES CONSISTENT WITH MECHANICAL CODE REQUIREMENTS.

11 ALL DELIVERY DOORS LEADING TO THE OUTSIDE SHALL OPEN OUTWARD, BE SELF-CLOSING, AND SHALL BE PROVIDED WITH AN OVERHEAD AIR CURTAIN. AIR CURTAIN SHALL BE TYPE NH2 NSF CERTIFIED RECEIVING DOOR MODELS.

12 ALL EXTERIOR DOORS SHALL OPEN OUTWARD AND BE SELF-CLOSING AND TIGHT-FITTING. BI-FOLD, FRENCH, ACCORDIAN STYLE AND ROLL-UP DOORS CANNOT OPEN INTO FOOD PREPARATION, UNPACKAGED FOOD SERVICE OR WAREWASHING AREA.

13 TOILET ROOM DOORS ARE TO BE SELF-CLOSING AND TIGHT-FITTING.

14 ALL PLUMBING, ELECTRICAL AND GAS LINES SHALL BE CONCEALED WITHIN THE BUILDING STRUCTURE TO AS GREAT AN EXTENT AS POSSIBLE. ALL EXPOSED CONDUIT, PLUMBING LINES, ETC. SHALL BE INSTALLED A MINIMUM OF 6" ABOVE THE FLOOR AND ¾" FROM THE WALLS USING EASILY CLEANABLE STANDOFF BRACKETS.

15 UTENSIL SINKS TO HAVE 3 COMPARTMENTS THAT ARE A MINIMUM SIZE OF 18" X 18" X 12" DEEP WITH A MINIMUM 18" DRAINBOARD AT EACH END AND 10" BACKSPLASH. IF THE END IS AGAINST A WALL, THE END MUST HAVE A 10" INTEGRAL SPLASH TO MATCH BACKSPLASH. THE SINK TUB MUST BE CAPABLE OF ACCOMMODATING THE LARGEST UTENSIL TO BE WASHED AND THE DRAINBOARD MUST BE EQUAL OR GREATER IN LENGTH THAN THE SINK TUB.

16 PREP SINK COMPARTMENTS MUST BE AT LEAST 18" X 18" X 12" DEEP WITH A MINIMUM DRAINBOARD OF 18".

17 FAUCETS SHALL HAVE SPOUTS CAPABLE OF REACHING EACH SINK COMPARTMENT.

18 APPROVED BACKFLOW PREVENTION DEVICES SHALL BE PROPERLY INSTALLED UPSTREAM OF ANY POTENTIAL HAZARD BETWEEN THE POTABLE WATER SUPPLY AND A SOURCE OF CONTAMINATION. HOSES SHALL NOT BE ATTACHED TO A FAUCET OR HOSE BIBB UNLESS AN APPROVED BACKFLOW PREVENTER IS SUPPLIED.

19. IN EVERY ROOM AND AREA IN WHICH ANY FOOD IS PREPARED, MANUFACTURED, PROCESSED, OR PREPACKAGED OR IN WHICH EQUIPMENT OR UTENSILS ARE CLEANED, SUFFICIENT NATURAL OR ARTIFICIAL LIGHTING SHALL BE PROVIDED TO PRODUCE LIGHT INTENSITY, WHILE THE AREA IS IN USE:

A) AT LEAST 10-FOOT CANDLES FOR THE FOLLOWING:
1) AT A DISTANCE OF 30 INCHES ABOVE THE FLOOR, IN WALK-IN REFRIGERATION UNITS AND DRY FOOD STORAGE UNITS.
2) AT A WORKING SURFACE ON WHICH ALCOHOLIC BEVERAGES ARE PREPARED OR WHERE UTENSILS USED IN THE PREPARATION OR SERVICE OF ALCOHOLIC BEVERAGES ARE CLEANED.
3) INSIDE EQUIPMENT SUCH AS REACH-IN OR UNDER THE COUNTER REFRIGERATORS.

B) AT LEAST 20-FOOT CANDLES FOR THE FOLLOWING:
1) AT A SURFACE WHERE FOOD IS PROVIDED FOR CONSUMER SELF-SERVICE OR WHERE FRESH PRODUCE OR PREPACKAGED FOODS ARE SOLD OR OFFERED FOR CONSUMPTION.
2) IN SERVER STATIONS WHERE FOOD IS PREPARED.
3) AT A DISTANCE OF 30 INCHES ABOVE THE FLOOR IN AREAS USED FOR HANDWASHING, WAREWASHING, EQUIPMENT AND UTENSIL STORAGE AND IN TOILET ROOMS.
4) IN ALL AREAS AND ROOMS DURING PERIODS OF CLEANING.

C) AT LEAST 50-FOOT CANDLES AT A SURFACE WHERE A FOOD EMPLOYEE IS WORKING WITH FOOD OR WORKING WITH UTENSILS OR EQUIPMENT SUCH AS KNIVES, SLICERS, GRINDERS OR SAWS WHERE EMPLOYEE SAFETY IS A FACTOR.

D) LIGHT FIXTURES SHALL BE OF SHATTERPROOF CONSTRUCTION OR SHALL BE PROTECTED WITH SHATTERPROOF SHIELDS AND SHALL BE READILY CLEANABLE

ABBREVIATIONS

"T"	TEE
(N)	NEW
*	SEE REMARKS COLUMN
A	AMPS
A.F.F.	ABOVE FINISH FLOOR
A.G.A.	AMERICAN GAS ASSOCIATION
AL	ALUMINUM
ALT	ALTERNATE
APPROX	APPROXIMATE
ARCH	ARCHITECT
BLDG	BUILDING
BTU	BRITISH THERMAL UNIT
C	CONVENIENCE OUTLET
C.M.U.	CONCRETE MASONRY UNITS
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CLG.	CEILING
CLR	CLEAR
CO	CONVENIENCE OUTLET
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CW	COLD WATER
D	DIRECT CONNECTION
DCO	DUPLEX CONVENIENCE OUTLET
DET	DETAIL
DFA	DOWN FROM ABOVE
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DW	DIRECT WASTE
DWG	DRAWINGS
EA.	EACH
EH	EXHAUST
ELEC	ELECTRICAL
F	FREEZER
FD	FLOOR DRAIN
FIN	FINISH
FLR	FLOOR
FS	FLOOR SINK
FSEC	FOOD SERVICE EQUIPMENT CONTRACTOR
FT	FOOT
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GL	GLASS
GPH	GALLONS PER HOURS
GYP. BD.	GYPSUM BOARD
HP	HORSEPOWER
HR	HOUR
HTR	HEATER
HW	HOT WATER
I.D.	INSIDE DIAMETER
IN	INCH
INS	INSIDE INSULATION
INT	INTERIOR
IW	INDIRECT WASTE
JAN	JANITOR
KIT	KITCHEN
KW	KILOWATT
L	LENGTH
LOT	LOT
MAX	MAXIMUM
MECH	MECHANICAL
MED	MEDIUM
MET	METAL
MFG	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MOB	MOBILE
MTD	MOUNTED
N.I.C.	NOT IN CONTRACT
NIFSEC	NOT IN FOOD SERVICE EQUIPMENT CONTRACT
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
P.S.I.	POUNDS PER SQUARE INCH
PLY	PLYWOOD
POB	PART OF BUILDING
POF	PART OF FIXTURE
POL	POLISH, POLISHED
POT	PORTABLE
PR	PAIR
PT	PAINT
QTY	QUANTITY
R	REFRIGERATOR
REQ	REQUIRED
REQ'S	REQUIREMENTS
RM	ROOM
S/S	STAINLESS STEEL
SCH	SCHEDULE
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SOV	SHUT-OFF VALVE
SQ	SQUARE
STD	STANDARD
STRUCT	STRUCTURAL
THK	THICK
TYP	TYPICAL
W	WIDE, WIDTH, WASTE
W/	WITH
WD	WOOD

GENERAL SYMBOLS

1 / FS-701 — ELEVATION REFERENCE

1 / 4 FS-701 2 / 3 — MULTIPLE ELEVATION REFERENCE

/ FS-801 — DETAIL REFERENCE

1 / FS-801 — SECTION REFERENCE

/ FS-801 — ENLARGED PLAN/ DETAIL REFERENCE

P-1 — SPECIFICATION REFERENCE
SEE TYPICAL SPECIFICATION SYMBOLS (ON INTERIOR DRAWINGS)

X — ITEM NUMBER

N — NORTH ARROW

— REVISION DELTA

+8'-0" — ELEVATION HEIGHT REFERENCE

SHEET INDEX

MATERIAL GUAGE LIST

GAUGE	MATERIAL	DESCRIPTION	FINISH
14	STAINLESS STEEL	TOPS & SPLASH	#304
16	STAINLESS STEEL	EXPOSED CHANNELS	
18	STAINLESS STEEL	EXPOSED BODY	#304
16	STAINLESS STEEL	WALL SHELF / OVERSHELF	#304
14	STAINLESS STEEL	KNIFE BRACKET	
14	STAINLESS STEEL	SINK TUB	#304
16	STAINLESS STEEL	UNDERSHELVES	#304
16	STAINLESS STEEL	1 5/8" DIA. TUBING LEGS / CROSS BRACING / BULLET FEET	#304
16	STAINLESS STEEL	GALV. CURB	

THIS PLAN IS A GENERAL ARRANGEMENT OF EQUIPMENT FOR THE CONVENIENCE OF CONTRACTORS AND IS MADE FROM AVAILABLE INFORMATION. WEBB FOODSERVICE DESIGN ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF SUCH MEASUREMENTS. FABRICATORS, CONTRACTORS, AND OTHERS UTILIZING THESE PLANS IN CONNECTION WITH THIS JOB ARE RESPONSIBLE FOR SECURING THEIR OWN MEASUREMENTS. PLUMBING AND ELECTRICAL INFORMATION INDICATED ON THESE PLANS ARE GENERALLY FOR FOOD SERVICE EQUIPMENT AND ARE INTENDED AS REFERENCE ONLY. WEBB DESIGN IS NOT RESPONSIBLE FOR THE ENGINEERING THEREOF OR FOR ANY PLUMBING OR ELECTRICAL FITTINGS, WORK, AND OR CONNECTIONS UNLESS SPECIFICALLY PROVIDED FOR IN THE SPECIFICATIONS. WEBB FOODSERVICE DESIGN ASSUMES NO RESPONSIBILITY FOR THE WORK DONE BY THE CONTRACTORS NOR FOR ANY CHANGES MADE NECESSARY BY THE LOCAL BUILDING CODES, ORDINANCES, STRUCTURAL CONDITIONS, OR BY THE SUBSTITUTION OR CHANGES MADE NECESSARY IN EQUIPMENT SHOWN ON THIS PLAN. CONTRACTORS ARE TO MAKE ALLOWANCES FOR ELBOWS, TRAPS, ETC. AND ARE TO MAKE FINAL CONNECTIONS ON THE JOB, SUPPLYING ALL NECESSARY VALVES, TRAPS, STEAM TRAPS, FAUCETS, STARTING SWITCHES FOR MOTORS, ETC. EXCEPT WHERE SPECIFICALLY NOTES OTHERWISE IN THE WRITTEN SPECIFICATIONS. THESE PLANS AND DESIGNS CONTAINED HERIN ARE THE PROPERTY OF WEBB FOODSERVICE DESIGN AND MAY NOT BE REPRODUCED OR USED BY ANYONE, EITHER ALL OR IN PART WITHOUT FIRST SECURING THE WRITTEN PERMISSION OF WEBB FOODSERVICE DESIGN.

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ISSUED

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THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42".

SHEET TITLE

SYMBOLS, NOTES, & INDEX

SHEET NUMBER

FS-100

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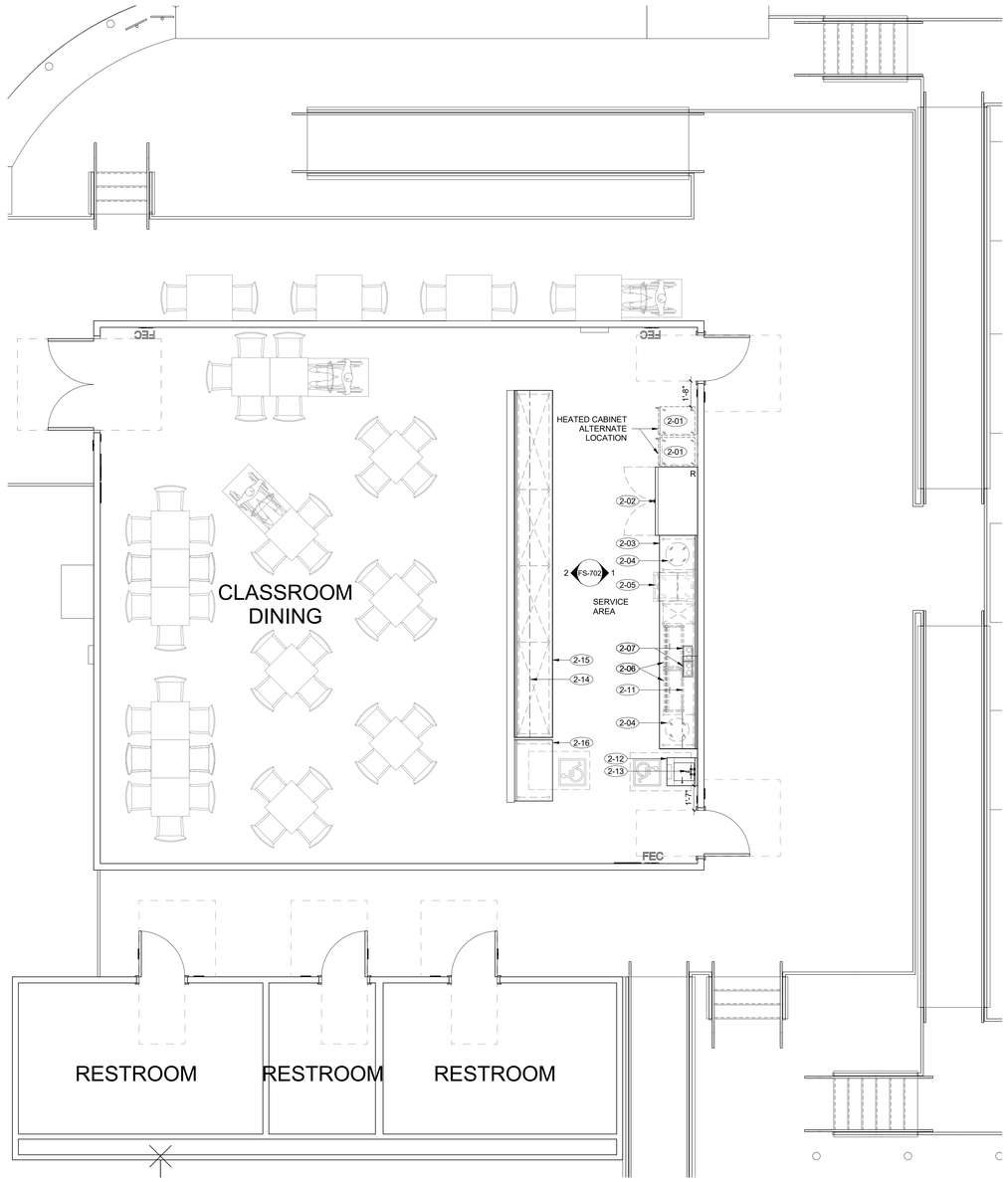

1 EQUIPMENT FLOOR PLAN - DINING
1/4" = 1'-0"

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SHEET TITLE

EQUIPMENT FLOOR PLAN

SHEET NUMBER

FS-103

DSA SUBMITTAL

EQUIPMENT SCHEDULE

ITEM #	QTY	DESCRIPTION	MANUFACTURER	MODEL #	PROVIDER	HEIGHT	WEIGHT	PLUMBING							ELECTRICAL							GENERAL REMARKS
								CW	HW	DW	IW	GAS	MBTU/ HR	PLUMBING REMARKS	VOLTS	K.W.	AMPS	H.P.	PHASE	ELEC. CONN.	ELECTRICAL REMARKS	
2-01	2	LOW TEMPERATURE HOT FOOD HOLDING CABINETS	ALTO SHAAM	NIFSEC -1000-S	CFCI	40 3/8"	223 LBS								120		8.0		1	C	NEMA 5-15P. PER UNIT REQ'S. VERIFY REQ'S W/ EQUIPMENT SUPPLIER.	
2-02	1	2-DOOR REACH-IN RERIGERATOR (SELF-CONTAINED)	TRAULSEN	CLBM-49R-FG-LR	CFCI	6'10"	575 LBS								120		6.70		1	C		
2-03	1	WORK TABLE	SFI	WT-WBB	OFOI	36" H	840 LBS								120		6.0		1	C	(2) EA. LOCATIONS.	
2-04	2	TRASH RECEPTACLE W/ DOLLY	RUBBERMAID	FG262000GRAY	OFOI	23" H	6 LBS															
2-05	1	MOBILE ICE BIN	CAMBRO	ICS125L110	OFOI	29" H	186 LBS															
2-06	2	DISH DOLLY	CADDY	T-140																		
2-07	2	FLATWARE DISPENSER		PROVIDED BY OWNER	CFCI	7 1/2"																
2-08	1	SPARE #																				
2-09	1	SPARE #																				
2-10	1	SPARE #																				
2-11	1	WALL SHELF (KNIFE BRACKETS)	SFI	WSK-WBB	CFCI	11" H	120 LBS															
2-12	1	WALL MOUNT HAND SINK W/ SOAP & TOWEL DISPENSER	EAGLE GROUP	HSAP-14-ADA-FW	CFCI	24" H	55 LBS			2"												
2-13	1	HAND SINK FAUCET (SPLASH MOUNT)	FISHER	62650	CFCI	8" H	5 LBS	1/2"	1/2"					PROVIDE THERMOSTATIC MIXING VALVE WITH TEMPERATURE SET @ 102° F								
2-14	1	WALL SHELF (KNIFE BRACKETS)	SFI	WSK-WBB	CFCI	11" H	540 LBS															
2-15	1	WORK TABLE	SFI	WT-WBB	CFCI	36" H	1620 LBS								120		6.0		1	C	(5) EA. LOCATIONS	
2-16	1	ACCESSIBLE MOBILE WORK TABLE	SFI	MT-WBB	CFCI	36" H	240 LBS								120		6.0		1	C		

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SHEET TITLE

EQUIPMENT SCHEDULE

SHEET NUMBER

FS-202

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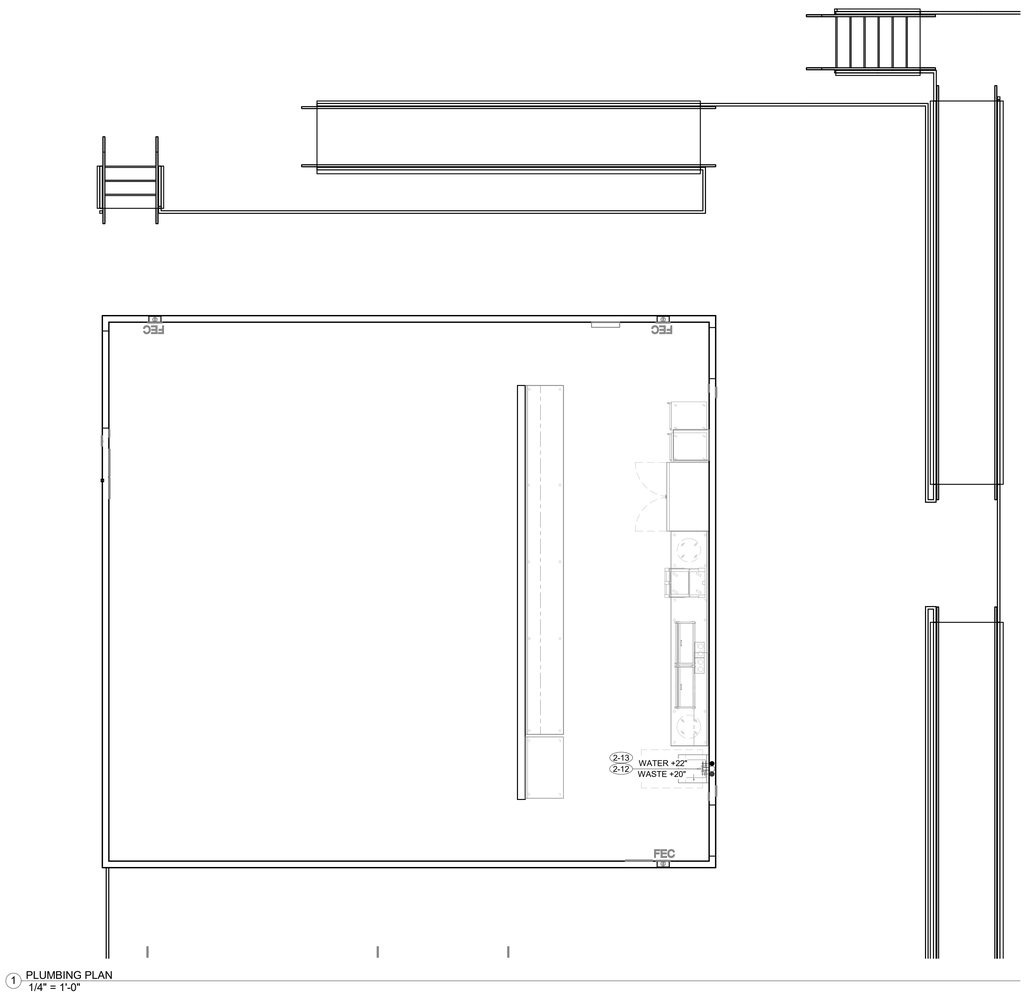

1 PLUMBING PLAN
1/4" = 1'-0"

PLUMBING NOTES

1. PLUMBING CONTRACTOR TO VERIFY ALL INCOMING SERVICES AND MAKE ALL EXTERNAL AND INTERNAL CONNECTIONS. PLUMBING CONTRACTOR TO PROVIDE ALL PIPING, FITTINGS, PARTS, ETC., NECESSARY TO MAKE EQUIPMENT FUNCTIONAL.
2. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL INDIVIDUAL SHUT-OFF VALVES ON ALL WATER AND GAS LINES.
3. ALL BUILDING AND FIXTURE PENETRATIONS MUST BE SEALED WATER-TIGHT AND VERMIN PROOF. PROVIDE ESCUTCHEON PLATES TO SURROUND OPENINGS.
4. ALL PLUMBING OUTLETS AND CONNECTIONS SHOWN ARE FOR EQUIPMENT SHOWN ON FOOD SERVICE EQUIPMENT PLAN ONLY. (SEE ARCHITECTURAL PLANS FOR FURTHER PLUMBING REQUIREMENTS).
5. ALL HORIZONTAL DIMENSIONS SHOWN ARE FROM FINISHED FACE ON WALL TO CENTERLINE OF STUB OUT OR FROM CENTERLINE OF STUB OUT TO CENTERLINE OF STUB OUT UNLESS OTHERWISE NOTED ON PLANS OR DETAILS (VERIFY ALL DIMENSIONS AT JOB SITE).
6. ALL SYMBOLS NOTED +12", +24", ETC., ARE TO STUB OUT OF WALL AT HEIGHT INDICATED.
7. HEIGHT IS GIVEN FROM FINISHED FLOOR (NOT FINISHED CURB) TO CENTERLINE OF STUB OUT. ALL SYMBOLS NOTED STUB UP ARE TO STUB UP ABOVE FINISHED FLOOR OR FINISHED CURB AT LOCATION INDICATED ON PLAN. (VERIFY ALL DIMENSIONS AT JOB SITE)
8. ALL FLOOR SINKS SHOWN ARE TO BE SET FLUSH WITH FINISHED FLOOR. VERIFY LOCATION OF FLOOR SINKS PRIOR TO FINAL POUR. (VERIFY WITH FOOD SERVICE EQUIPMENT CONTRACTOR.)
9. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL REMOVABLE GRILLS OR COVERS FOR ALL FULL OR PARTIALLY EXPOSED FLOOR SINKS.
10. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL TYPE "L" COPPER TUBING DRAIN LINES FROM ALL APPLICABLE EQUIPMENT TO FLOOR SINKS. (INCLUDING WALK-IN COOLER AND FREEZER COILS) AND TO INSULATE ALL DRAIN LINES FROM ICE BINS, REFRIGERATION EQUIPMENT ETC. PLUMBING CONTRACTOR TO INSTALL DRAIN LINES SO THEY DO NOT AFFECT UNDER- COUNTER STORAGE AND OTHER OPERATIONAL FUNCTIONS OF THE FIXTURES.
11. DRAIN FOR DISHWASHER TO HAVE A MINIMUM 3" DRAIN PIPE
12. PLUMBING CONTRACTOR TO VERIFY ALL INCOMING WATER TEMPERATURES, GPM'S WITH DISHWASHER SPECIFICATIONS. (120 DEGREE MIN.)
13. IF INLET PRESSURE ON HOT WATER LINE IS IN EXCESS OF 25 LBS. FLOW PRESSURE, PLUMBING CONTRACTOR TO PROVIDE AND INSTALL PRESSURE REGULATING VALVE. G.P.H. (RINSE CONSUMPTION AT 25 LBS. FLOW PRESSURE REQUIRED FOR DISH WASHING MACHINE)
14. PLUMBING CONTRACTOR TO INSTALL AND FOOD SERVICE EQUIPMENT CONTRACTOR TO PROVIDE, AUTOMATIC SHUT-OFF VALVE(S) IN GAS LINE FOR FIRE SUPPRESSION SYSTEM IN HOOD.
15. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL STRAINERS OR APPROVED TYPE FILTERS ON GAS SUPPLY LINES.
16. PLUMBING CONTRACTOR TO INSTALL AND FOOD SERVICE EQUIPMENT CONTRACTOR TO PROVIDE, ALL GAS PRESSURE REGULATING VALVES.
17. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL BACK FLOW PREVENTION DEVICES FOR FIXTURES AS REQUIRED BY LOCAL PLUMBING AND BUILDING DEPARTMENTS.
18. THIS PLAN IS FOR PLUMBING REQUIREMENTS FOR SPECIFIC FOOD SERVICE AREAS ONLY. PLUMBING CONTRACTOR TO REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL PLUMBING REQUIREMENTS NOT SHOWN.
19. PLUMBING ENGINEER TO VERIFY PROPER USE OF FOOD DISPOSERS. FOR GREASE INTERCEPTOR SIZING REFER TO MECHANICAL DOCUMENTS.
20. PLUMBING CONTRACTOR TO PROVIDE ALL SHUT-OFF AND MIXING VALVES, TRIM, TRAPS AND FINAL CONNECTIONS TO THE FIXTURES, EXCEPT AS NOTED DIFFERENTLY IN THE SPECIFICATIONS OR ON THE DRAWINGS.

PLUMBING SYMBOLS

- COLD WATER
- HOT WATER
- DIRECT WASTE
- CHILLED WATER SUPPLY
- CHILLED WATER RETURN
- GAS
- STEAM SUPPLY
- STEAM RETURN
- 12" X 12" FLOOR SINK
- 12" X 12" FLOOR SINK WITH HALF GRATE
- 12" X 12" FLOOR SINK WITH 3/4 GRATE
- FLOOR DRAIN
- (1) ITEM NUMBER, REFER TO SHEET FS-201
- GAS SHUT-OFF VALVE

NOTE: ALL FLOOR DRAIN LOCATIONS SHOWN ARE SUGGESTED ONLY. ACTUAL LOCATIONS AND QUANTITIES TO BE DETERMINED BY THE ARCHITECT. VARIATIONS DUE TO FLOORING TYPE AND PITCH MAY BE REQUIRED.

HOT WATER DEMAND

EQUIPMENT	GPH
HAND SINKS	5
PRE RINSE UNITS	45
FOOD PREPARATION SINKS	5
BAR SINKS	6
JANITOR SINKS	15
UTENSIL SINKS 12"X18" PER COMPARTMENT	11.5
UTENSIL SINKS 24"X26" PER COMPARTMENT	37.5
FOOD COLLECTOR	120
POWERSOAK	150
DISHMACHINE	

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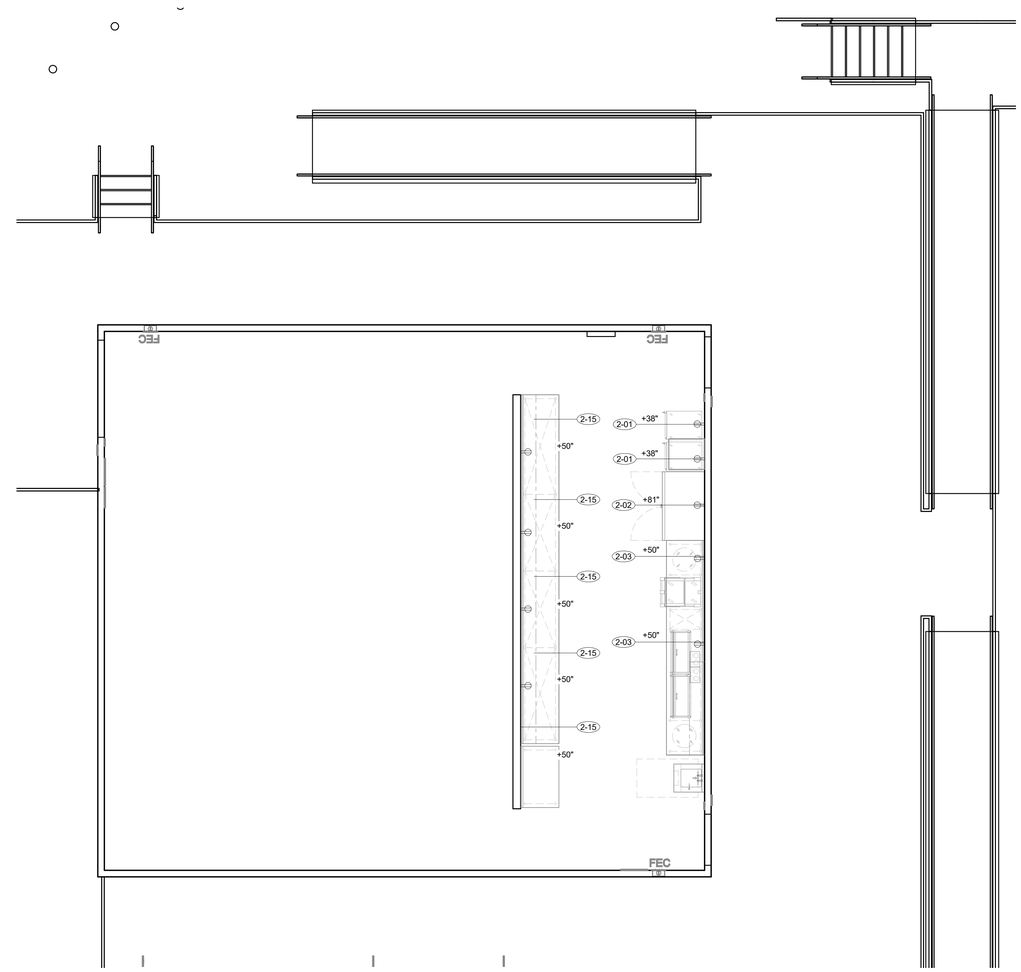
SHEET TITLE

PLUMBING PLAN

SHEET NUMBER

FS-302

DSA SUBMITTAL



1 ELECTRICAL PLAN
1/4" = 1'-0"

ELECTRICAL NOTES

1. ELECTRICAL CONTRACTOR TO VERIFY ALL INCOMING SERVICE AND FINAL HOOK-UP TO ALL APPLICABLE EQUIPMENT AND TO PROVIDE ALL SWITCHES, BREAKERS, CONDUIT, ETC., UNLESS SPECIFICALLY STATED OTHERWISE.
2. FIXTURE FABRICATOR TO PROVIDE JUNCTION/OUTLET BOXES WHEN PART OF FIXTURE. INTERNAL WIRING, RECEPTACLES, COVERS, ETC. TO BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR UNLESS SPECIFIED AS PART OF A PRE-ENGINEERED DESIGN.
3. ALL ELECTRICAL OUTLETS AND CONNECTIONS SHOWN ON THE PLAN ARE FOR EQUIPMENT SHOWN ON FOOD SERVICE EQUIPMENT PLAN (SEE ARCHITECTURAL PLANS FOR ADDITIONAL ELECTRICAL REQUIREMENTS).
4. ALL HORIZONTAL DIMENSIONS SHOWN ARE FROM FINISHED FACE OF WALL TO CENTERLINE OF OUTLET UNLESS OTHERWISE NOTED ON PLANS OR DETAILS. ELECTRICAL CONTRACTOR TO VERIFY ALL DIMENSIONS AT JOB SITES. ALL SYMBOLS NOTES +12", +24", ETC., TO STUB OUT OF WALL AT HEIGHT INDICATED.
5. HEIGHT IS GIVEN FROM FINISHED FLOOR (NOT FINISHED CURB) TO CENTERLINE OF OUTLET. ALL SYMBOLS NOTED "STUB UP" ARE TO STUB UP ABOVE FINISHED FLOOR AT HEIGHT AND LOCATION INDICATED (MINIMUM HEIGHT TO BE 6" A.F.F.)
6. ELECTRICAL CONTRACTOR TO PROVIDE A PIGTAIL FLEX CONDUIT AT ALL DIRECT CONNECT STUB OUTS OF SUFFICIENT LENGTH TO EXTEND AND CONNECT TO FIXTURES.
7. ELECTRICAL CONTRACTOR TO WIRE MAGNETIC CONTACTORS AND/OR SHUNT TRIP BREAKERS FOR POWER SHUT-OFF TO ALL COOKING EQUIPMENT PROTECTED BY THE FIRE SUPPRESSION SYSTEM. CONNECT CONTROL CIRCUIT FROM MICRO-SWITCH ON SYSTEM AUTOMAN TO CONTRACTOR COIL. REFER TO DETAIL ON FIRE SUPPRESSION SYSTEM DRAWINGS.
8. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL STAINLESS STEEL COVER PLATES FOR ALL RECEPTACLES AND SWITCHES IN FOOD PREPARATION AREAS UNLESS OTHERWISE NOTED. ALL RECEPTACLES TO BE SET HORIZONTALLY.
9. LIGHT FIXTURES THAT ARE SUPPLIED BY THE FOOD SERVICE EQUIPMENT CONTRACTOR ARE TO BE INSTALLED BY THE ELECTRICAL CONTRACTOR WITH LAMPS BY OWNER, UNLESS OTHERWISE NOTED.
10. ELECTRICAL CONTRACTOR TO PROVIDE CAPS AND CORDS FOR ALL ITEMS WHICH USE CONVENIENCE OUTLETS WHEN NOT SUPPLIED BY THE MANUFACTURER AND SHORTEN ANY CORDS IF NECESSARY OR REQUESTED.
11. FIXTURE FABRICATOR SHALL CUT ACCESS HOLES TO CONVENIENCE OUTLETS AS REQUIRED.
12. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL WIRING FOR WALK-IN COOLERS AND FREEZERS. NO EXPOSED CONDUIT ON THE INTERIOR OF THE WALK-IN IS PERMITTED.
13. ELECTRICAL CONTRACTOR TO VERIFY ALL DIMENSIONS WITH JOBSITE CONDITIONS.
14. ELECTRICAL CONTRACTOR TO VERIFY ANY ADDITIONAL ELECTRICAL SERVICES REQUIRED ELSEWHERE IN THE BUILDING FOR ITEMS NOT SHOWN ON THE PLANS, AND FOR N.I.F.S.E.C. ITEMS.
15. ELECTRICIAN TO PROVIDE CONDUIT THAT MEETS LOCAL BUILDING AND ELECTRICAL CODES.
16. ELECTRICIAN TO VERIFY ALL WIRING REQUIREMENTS FOR WALK-IN COOLERS / FREEZERS WITH REFRIGERATION CONTRACTOR PRIOR TO INSTALLATION.
17. ELECTRICIAN TO CONNECT HEATER STRIPS AT COLD STORAGE ROOM DOORS, INCLUDING GLASS DISPLAY DOORS, AND DRAIN LINES AS REQUIRED.
18. EXHAUST SYSTEM (FAN) TO BE CONNECTED TO DISHMACHINE CONTROLLER

ELECTRICAL SYMBOLS

- 120 VOLT DUPLEX CONV OUTLET
- FLOOR MOUNTED CONVENIENCE OUTLET
- SPECIALTY OUTLET
- JUNCTION BOX
- STUB UP
- MOTOR
- HEATING ELEMENT
- SWITCH
- TELEPHONE/ DATA
- (1) ITEM NUMBER, REFER TO SHEET FS-201
- FLEX CONNECTION
- VACUUM PRESSURE RELIEF VENT
- TEMPERATURE ALARM/ SENSOR
- FIXTURE MOUNTED LED LIGHT FIXTURE
- (F) 4/0 FIRE PULL BOX
- DFA DOWN FROM ABOVE
- FINAL CONNECTION POINT

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LICENSED ARCHITECT
AMMAR NAJI
SARSAM
C-30902
12/31/2023
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANTS

webb.
1530 S. Lewis St. Anaheim, CA 92805
P 714.508.1880 www.webbfsd.com

PROJECT TITLE

HRC TEMP RELOCATABLE CLASSROOM & RESTROOM
9200 VALLEY VIEW ST.
CYPRESS, CA 90630

Cypress College
CYPRESS COMMUNITY COLLEGE
9200 VALLEY VIEW ST.
CYPRESS, CA 90630

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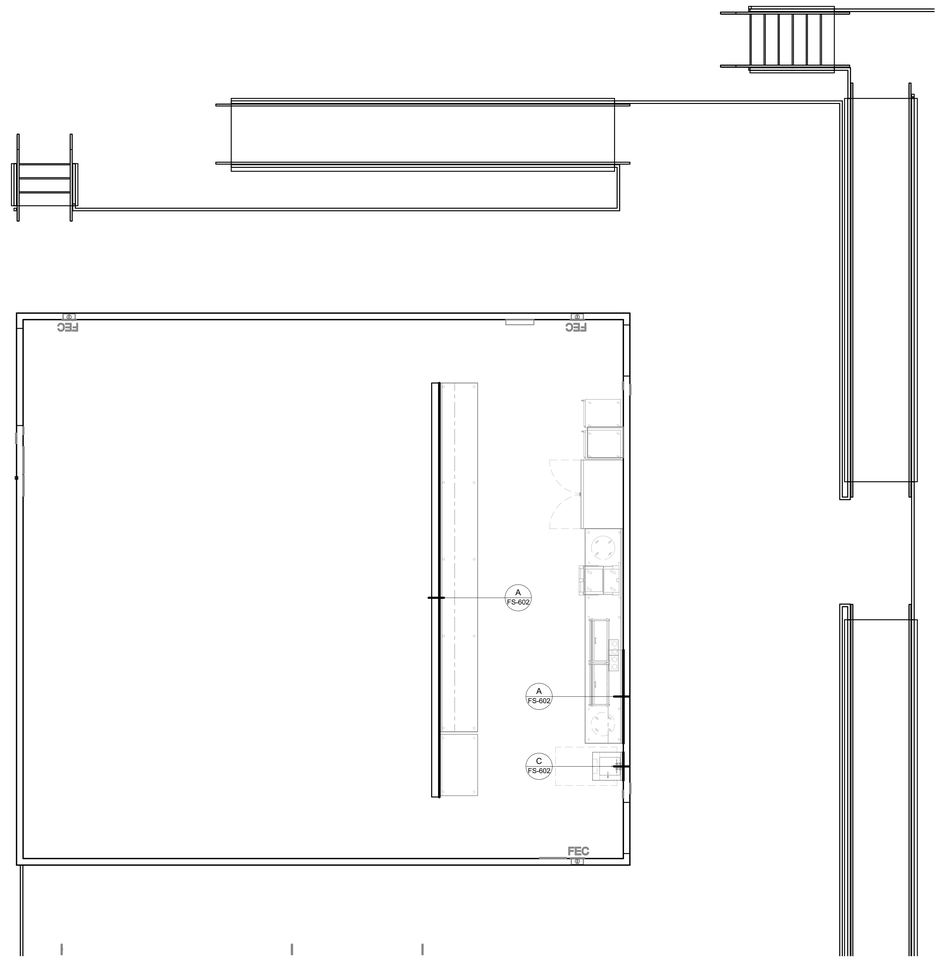
SHEET TITLE

ELECTRICAL PLAN

SHEET NUMBER

FS-402

DSA SUBMITTAL

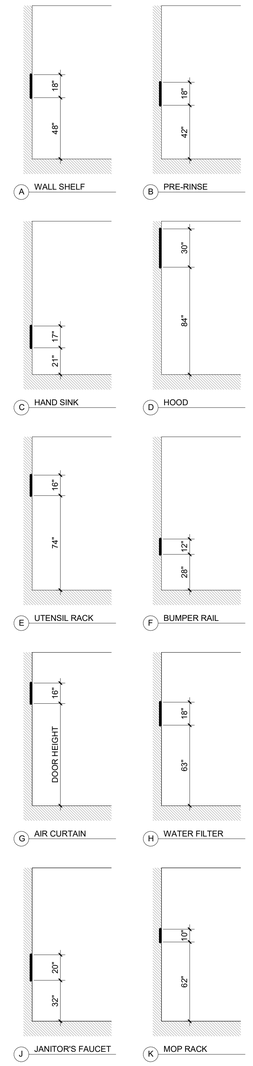


1 BUILDING WORKS & EXHAUST PLAN
1/4" = 1'-0"

BUILDING WORKS NOTES

1. ALL WALL BACKING TO BE 16 GAUGE GALVANIZED METAL SECURELY ATTACHED TO STUD/WALL FRAMING. SEE DETAIL 10/A9.11 FOR BACKING INFORMATION
2. WALL BACKING LENGTHS SHOWN ON BUILDING WORKS PLAN REQUIREMENTS ARE THE MINIMUM. ALWAYS EXTEND WALL BACKING TO NEXT STUD OVER IN EACH DIRECTION.
3. ALL WORK SHOWN ON BUILDING WORKS PLAN TO BE BY GENERAL CONTRACTOR UNLESS OTHERWISE NOTED.

WALLBACKING DETAILS



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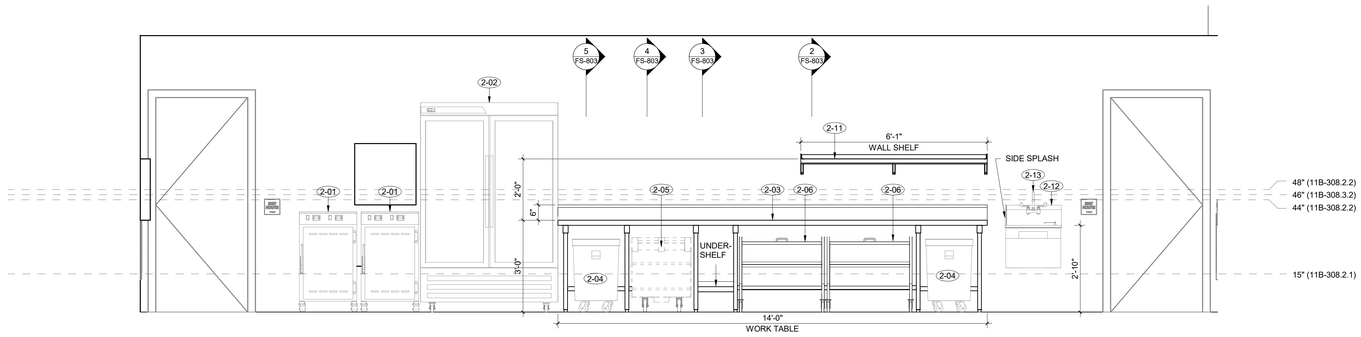
SHEET TITLE

BUILDING WORKS & EXHAUST PLAN

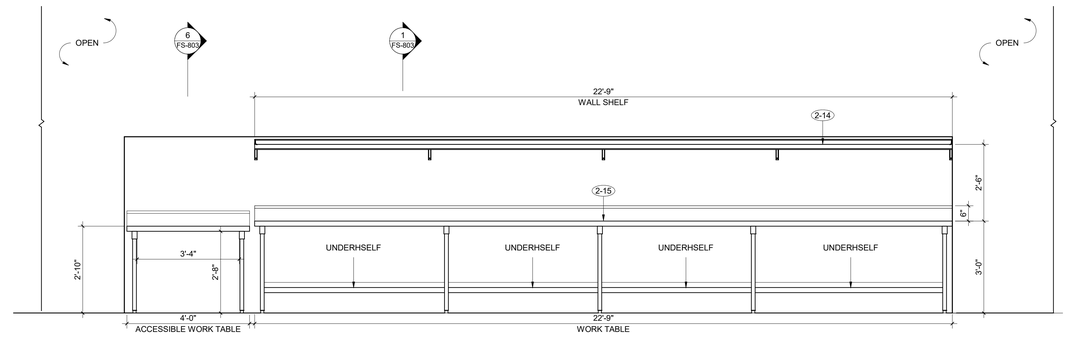
SHEET NUMBER

FS-602

DSA SUBMITTAL



1 ELEVATION - WORK TABLE - ITEM #2-02
1/2" = 1'-0"



2 ELEVATION - WORK TABLE - ITEM #2-11
1/2" = 1'-0"

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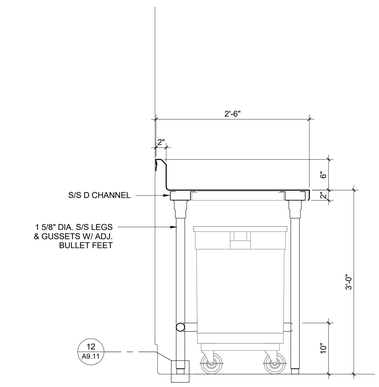
SHEET TITLE

EQUIPMENT ELEVATIONS

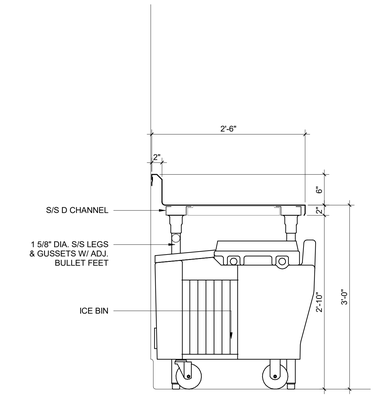
SHEET NUMBER

FS-702

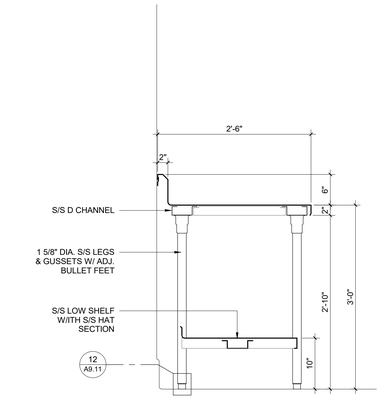
DSA SUBMITTAL



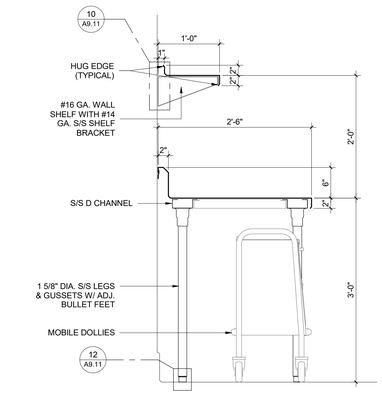
5 SECTION @ WORK TABLES W/TRASH
1" = 1'-0"



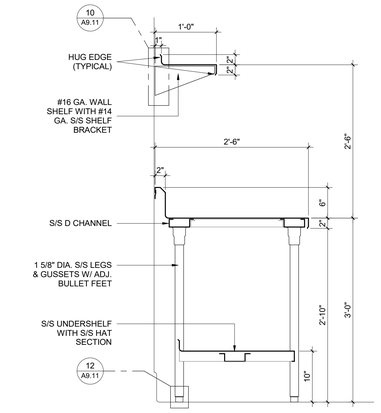
4 SECTION @ WORK TABLE W/ MOBILE ICE BIN
1" = 1'-0"



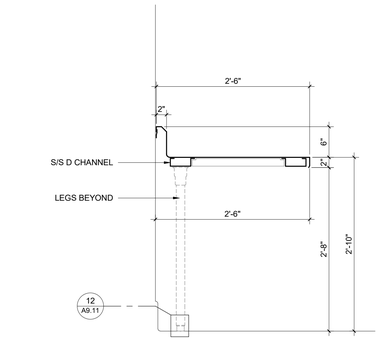
3 SECTION @ WORK TABLE
1" = 1'-0"



2 SECTION @ WORK TABLES W/ MOBILE DOLLIES
1" = 1'-0"



1 SECTION - WORK TABLE W/ SHELF ITEM #2-15
1" = 1'-0"



6 SECTION - ACCESSIBLE WORK TABLE ITEM #2-16
1" = 1'-0"

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SHEET TITLE

EQUIPMENT SECTONS

SHEET NUMBER

FS-803

DSA SUBMITTAL

SECTION 11 40 00 - FOOD SERVICE EQUIPMENT

PART 1 - GENERAL

1.1 SUMMARY

A. The work referred to in this section consists of furnishing all labor and material required to provide and deliver all food service equipment hereinafter specified into the building, uncrate, assemble, hang, set in place, level, and completely install, exclusive of final utility connections. Final utility connections to all equipment, shall be part of the work under additional appropriate sections of the work and not part of the food service work.

1. The equipment and its component parts shall be new and unused. All items of standard manufactured equipment shall be current models at the time of delivery. Parts subject to wear, breakage, or distortion shall be accessible for adjustment, replacement and repair.

2. The materials or products specified herein by trade names, manufacturer's name or catalog number shall be provided as specified. Substitutions will not be permitted unless approved by owner's representative in writing no later than 10 days prior to bidding. This stipulation applies to all equipment and materials.

a. Any request for substitution or alternate must include documentation supporting that the requested substitution/alternate will perform in all aspects as well as the original specification. Alternative exhaust hood manufacturers are required to provide heat load based design exhaust volume calculations prior to alternate being considered. Request must include the following:

1) Grease filtration performance data and manufacturer's own airflow calculations based on convective heat load of cooking equipment beneath the hood.

2) Efficiency comparison data performed in accordance with ASTM Standard F1704-96 for a standard 24" high exhaust hood.

3) A written guarantee of compliance with Title 24 Part 6 with Kitchen Ventilation acceptance tests NA7.11.1.2 and NA7.11.1.3.

b. Should no request for substitution be received and approved as stated above, the project is to be provided as specified.

3. The food service equipment contractor shall be responsible for all costs associated with the acceptable alternate or approved alternate items, if the item requires additional space or specific utilities that differ from specifications or drawings. The FSEC is responsible for all coordination, documentation and costs

associated with any alternate item that was not submitted for approval and accepted by the consultant prior to bid. The FSEC shall be responsible for any costs associated with building changes, utility changes and drawings changes. The food service equipment contractor shall be responsible to pay Webb Foodservice Design to review proposed substitutions. These costs will be billed at an hourly rate of $135/hr. All proposed substitutions shall be accompanied with supporting factory quotes for both specified and proposed manufacturer including factory contact information. Food service equipment contractor must completely fill out the foodservice substitution request form. The substitution form may be downloaded at the following link:
https://webbfoodservicedesign.sharepoint.com/:x:/s/WebbTeam/ES_CzQZ_dMJLjk7jB5s06ocBf7Y47K6gFKrpEdbbxNlNFA?e=JNhV93

B. Coordinate Owner and Vendor-supplied equipment noted on the drawings or in the specifications as NIFSEC, "not in food service equipment contract". Show on roughing in Plans and sizes, utilities, and other requirements as furnished in the specifications, by owner or appropriate supplier in submittals as if the equipment is contractor furnished.

C. Bidders shall carefully examine the specifications and the project site including location and condition of existing equipment to determine cost for each "Existing-Reset" and "Existing-Modify" item to cover removal, modification (including materials), cleaning, inspection for damage, repair and resetting.

D. Field measurements shall be made prior to fabrication or installation of any equipment item.

E. The cutting of holes in equipment for pipe, drains, electrical outlets, etc., required for this installation, shall be part of this work. Work shall conform to the highest standards of workman-ship and shall include welded sleeves, collars, ferrules and escutcheons.

F. Repair of all damage to the premises as a result of the equipment installation as well as the removal of all debris left by the work of this section.

G. Food service equipment and fixtures shall be cleaned and ready for operation at the time the facility is turned over to the Owner for final inspection by the Owner's Representative.

H. Food Service Equipment Contractor shall be responsible for coordinating with the Architect and Contractor in submitting all applicable documents.

I. All bidders shall submit with their itemized costing a list of the subcontractors that are included in their bids and a complete "schedule of values" for all equipment and labor.

J. The food service equipment contractor shall submit an itemized Schedule of Values to Webb Foodservice Design for acceptance no later than 14 days after bid date using the "Schedule of Values" form. The Schedule of Values form may be downloaded at the

following link:
https://webbfoodservicedesign.sharepoint.com/:x:/s/WebbTeam/EbBZsvur8ZZIqUW9PWyAWYYBh5BGY0uxUOjb829oKBaSuw?e=kbSvKW

1.2 RELATED SECTIONS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

B. Related Work In Other Sections by appropriate trades include the following:

1. Division 5 Section "Metal Fabrications" for equipment supports.

2. Division 6 Section "Interior Architectural Woodwork" for wood casework and plastic laminate substrates.

3. Refer to Division 23 Sections for supply and exhaust fans; exhaust ductwork; demand control ventilation requirements; service roughing-ins; drain traps; atmospheric vents; valves, pipes, and fittings; fire extinguishing systems; and other materials required to complete food service equipment installation.

4. Refer to Division 26 & 28 Sections for connections to fire alarm systems, wiring, disconnects, and other electrical materials required to complete food service equipment installation.

C. All electric services including wiring to, and final connections to, the fixtures except, as specified differently in the specifications, drawings, or herein.

D. All water, waste and gas services to the fixtures including shut-off valves, trim, traps, etc., and final connections to the fixtures, except as specified differently in the specifications, drawings, or herein.

E. All hood or ventilator duct work above the connection position on such exhaust hoods or exhaust ventilators, except as specified differently in the specifications, drawings, or herein. Final welded connections at the junction point of exhaust hoods or exhausts ventilators, shall be part of the food service work.

F. Floors, quarry tile, concrete bases, walls, ceilings, finishes and related building work, except as specified differently in the specifications, drawings or herein.

1.3 DEFINITIONS

A. Terminology Standard: Refer to NSF 2, "Food Equipment", NSF 4, Heated Cabinets, NSF 7, Refrigerated Equipment, or other applicable NSF standards for definitions of food service equipment and installation terms not otherwise defined in this Section or in other referenced standards.

B. FSEC: Food Service Equipment Contractor

C. Owner-Furnished Equipment: Where indicated, Owner will furnish equipment items.

D. Vendor-Furnished Equipment: Where indicated the Owner's or operator's vendor will furnish equipment items.

E. NIFSEC: Not Included in Food Service Equipment Contract.

1.4 SUBMITTALS

A. Submittal Process: All submittals will be reviewed within 10 days upon receipt by Webb Foodservice Design. All submittals shall be separated as a stand-alone digital file and submittal by discipline with identifying tracking number (i.e. 11400.1, 11400.2 etc..) as listed below. Any other disciplines for particular project will be submitted and given the next available tracking number. Do not submit all files into one document, submittals must be received and reviewed as separate packages as outlines below:

1. 11400.1 Product Data Submittal Book

2. 11400.2 FSEC Utility Rough-in Construction Documents Drawings

3. 11400.3 Walk In Box Submittal

4. 11400.4 Refrigeration Rack Submittal

5. 11400.5 Exhaust Hood Submittal

6. 11400.6 Fire Suppression Submittal

7. 11400.7 Custom Stainless Steel Submittal

8. 11400.8 Custom Millwork Submittal

9. 11400.9 Custom Sneeze Guards Submittal

B. Regardless of drawing formats provided it will remain the responsibility of equipment supplier to develop submittals in accordance with the Specific Conditions and assume all required responsibilities there to. The consultant is not to be liable for errors or omissions by the FSEC's use of electronic data provided by the Consultant or the development of data used in the submittal approval process. Checking product data, rough-in drawings, wall backing drawings, shop drawings, and refrigeration drawings by Designer is for design concept only, and does not relieve the Food Service Equipment Contractor of responsibility for compliance with Contract Documents, verification of utilities with equipment requirements for conformity and location, verification of all dimensions of equipment and building conditions or reasonable adjustments due to deviations.

C. The Food Service Equipment Contractor shall review and provide an affidavit through the proper channels and chain of command with each submittal stating that such review has been completed by an authorized agent of the food service equipment contractor.

D. Product Data: For each type of food service equipment indicated. Include manufacturer's model number and accessories and requirements for access and maintenance clearances, water and drainage, power or fuel, and service-connections including roughing-in dimensions.

E. Shop Fabrication Drawings: For food service equipment not manufactured as standard production and/or catalog items by manufacturers the fabricator of the equipment shall prepare and submit through the Food Service Equipment Contractor one electronic file of all shop drawings showing all information necessary for the fabrication and installation of the work of this section. Include plans, elevations sections, material schedule, roughing-in dimensions, fabrication details, service requirements and attachments to other work. All drawings to be fully detailed and dimensioned to a minimum scale of ¾ inch to the foot for plan and elevation views and 1-½ inch to the foot for section views. Reduced or enlarged drawings are not acceptable. Drawings not submitted in the proper format will be returned as unreviewed.

1. Wiring Diagrams: Details of wiring for power, signal, and control systems and differentiating between manufacturer-installed and field-installed wiring.

2. Piping Diagrams: Details of piping systems and differentiating between manufacturer-installed and field-installed piping.

3. All custom fixtures shop drawings must show proper sneeze guard and built-in equipment relationships as well as all switch locations.

F. Coordination Drawings: For locations of food service equipment and service utilities. Key equipment with item numbers and descriptions indicated in Contract Documents. Include plans and elevations of equipment, access- and maintenance-clearance requirements, details of concrete, masonry or metal bases and floor depressions, and service-utility characteristics. Ventilation requirements for refrigerated equipment shall be identified in these drawings.

G. Contract Document Drawings:

1. Drawings furnished, constitute a part of these specifications and show locations of equipment and general arrangement of mechanical and electrical services. Necessary deviation from the illustrated arrangements to meet structural conditions, shall be considered a part of the work of this section. Such deviations shall be made without expense to the owner. Equipment drawings are definitive only and should not be used as construction documents or shop details.

2. The drawings are for the assistance and guidance of the Food Service Equipment Contractor. Exact locations shall be governed by the building configuration. The Food Service Equipment Contractor shall accept his contract with this understanding.

3. Should there be a conflict between the drawings and the specifications, the FSEC shall submit a "Request for Information" (RFI) for clarification.

H. Utility Rough-in Drawings:

1. The Food Service Equipment Contractor shall prepare and submit one electronic file each (separately), of all roughing-in drawings, showing information necessary for the roughing-in of refrigerant lines, syrup/beer lines, plumbing, steam, mechanical and electrical utility requirements. Drawings shall also include construction requirements necessary for all equipment including floor depressions, raised bases, wall blocking, wall recesses and any critical dimensions for specific equipment requirements. Acceptance will be made upon the electronic file or one print which will be returned to the Food Service Equipment Contractor for reproduction purposes. Drawings not properly submitted in this format, will not be reviewed. Drawings without an "Accepted" or "Accepted as noted" stamp, will not be considered an authorized shop drawing and will not be allowed on the job site.

a. Furnish four (4) sets "Accepted" and/or "Accepted as Noted" shop drawings, for distribution to the field, as directed.

I. Samples for Initial Selection: Manufacturer's color charts showing the full range of colors available for exposed products with color finishes.

J. Samples for Verification: Of each type of exposed finish required, minimum 4-inch- (100-mm-) square or 6-inch- (150-mm-) long sections of linear shapes and of same thickness and material indicated for work. Where finishes involve normal color and texture variations, include Sample sets showing the full range of variations expected.

K. Product Certificates: Signed by manufacturers of refrigeration systems, refrigerated equipment or their authorized agents certifying that systems furnished comply with NSF 7 requirements and will maintain operating temperatures indicated in the areas or equipment that they will serve.

L. Maintenance Data: Operation, maintenance, and parts data for food service equipment to include in the maintenance manuals specified in Division 1. Include a product schedule as follows:

1. Product Schedule: For each food service equipment item, include item number and description indicated in Contract Documents, manufacturer's name and model number, and authorized service agencies' addresses and telephone numbers.

2. See itemized specifications for closeout and owner's maintenance manual requirements.

1.5 QUALITY ASSURANCE AND LAWS AND ORDINANCES

A. Installer Qualifications: Engage an experienced installer to perform work of this Section who has specialized in installing food service equipment, who has completed

installations similar in design and extent to that indicated for this Project, and who has a record of successful in-service performance. See specifications section 3.5 for installation requirements pertaining to refrigeration, fire suppression, and walk in box installation as well as food service drawings.

B. Manufacturer Qualifications: Engage a firm experienced in manufacturing food service equipment similar to that indicated for this Project and with a record of successful in-service performance. See itemized specifications section 3.5 for custom fabricated stainless steel and/or millwork. Food Service Equipment Contractor to submit and procure specified custom manufacturer as listed in the itemized specifications as this company has demonstrated quality control and proper coordination from design development through closeout requirements.

C. Source Limitations: Obtain each type of food service equipment through one source from a single manufacturer.

D. Product Options: Drawings indicate food service equipment based on the specific products indicated. Other manufacturers' equipment with equal size and performance characteristics may be considered. Refer to Division 1 Section "Substitutions."

E. Regulatory Requirements: Comply with the following National Fire Protection Association (NFPA) and California Electrical Codes (CBC) codes:

1. NFPA 17, "Dry Chemical Extinguishing Systems."

2. NFPA 17A, "Wet Chemical Extinguishing Systems."

3. NFPA 54, "National Fuel Gas Code."

4. NFPA 96, "Ventilation Control and Fire Protection of Commercial Cooking Operations."

5. CEC, California Electrical Code, 2019

6. The FSEC shall certify that all work and materials comply with Federal, State and Local laws, ordinances, and regulations and is confirmed by the local inspector having jurisdiction.

a. US PUBLIC HEALTH SERVICE

b. LOCAL HEALTH DEPARTMENT

c. OSHA

d. UL

e. HACCP

f. NFPA 96 – Current

g. ADA

h. OSHPD

i. DSA

F. Listing and Labeling: Provide electrically operated equipment or components specified in this Section that are listed and labeled.

1. The Terms "Listed" and "Labeled": As defined in the National Electrical Code, Article 100.

2. Listing and Labeling Agency Qualifications: A "Nationally Recognized Testing Laboratory" (NRTL) as defined in OSHA Regulation 1910.7.

G. AGA Certification: Provide gas-burning appliances certified by the American Gas Association (AGA).

H. ASME Compliance: Fabricate and label steam-generating and closed steam-heating equipment to comply with ASME Boiler and Pressure Vessel Code.

I. ASHRAE Compliance: Provide mechanical refrigeration systems complying with the American Society of Heating, Refrigerating and Air-Conditioning Engineers' ASHRAE 15, "Safety Code for Mechanical Refrigeration."

J. Food Service Equipment: Where provided, check-out aisles, sales counters, service counters, food service lines, queues, and waiting lines shall comply with CBC Sections11B-227 and 11B-904. The top of tray slides shall be 28" minimum and 34" maximum above finish floor. Space and elements within food service employee work areas shall meet the requirements of CBC Section 11B-203.9. Food service equipment required to be accessible shall conform to all reach requirements in CBC Figures 2019, 11B-403.5.1, 11B-227.4, 11B-904.5, 11B-904.5.1, and 11B-904.5.2.

K. NSF Standards: Comply with applicable NSF International (NSF) standards and criteria and provide NSF, UL Sanitation or ETL Sanitation Certification Mark on each equipment item, unless otherwise indicated.

L. ANSI Standards: Comply with applicable ANSI standards for electric-powered and gas-burning appliances; for piping to compressed-gas cylinders; and for plumbing fittings, including vacuum breakers and air gaps, to prevent siphonage in water piping.

M. SMACNA Standard: Where applicable, fabricate food service equipment to comply with the Sheet Metal and Air Conditioning Contractors National Association's (SMACNA) "Food Service Equipment Fabrication Guidelines," unless otherwise indicated.

N. Seismic Restraints: Provide seismic restraints for food service equipment according to the Sheet Metal and Air Conditioning Contractors National Association's (SMACNA)

"Food Service Equipment Fabrication Guidelines," appendix 1, "Guidelines for Seismic Restraints of Kitchen Equipment," unless otherwise indicated.

O. Pre-installation Conference: Conduct conference at Project site to comply with requirements of Division 1 Section "Project Meetings."

P. Pre-installation Conference: Conduct conference at Project site to comply with requirements of Division 1 Section "Project Meetings." Review methods and procedures related to food service equipment including, but not limited to, the following:

1. Review access requirements for equipment delivery.

2. Review equipment storage and security requirements.

3. Inspect and discuss condition of substrate and other preparatory work performed by other trades.

4. Review structural loading limitations.

5. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.

Q. Walk-in cooler and/or freezer shall comply with CBC Figures 2019, 11B-404.2.4, 11B-404.2.4.4. 11B-404.2.7 and 11B-309.4.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Deliver food service equipment as factory-assembled units with protective crating and covering.

B. Store food service equipment in original protective crating and covering and in a dry location.

1.7 PROJECT CONDITIONS

A. Field Measurements: Verify dimensions of food service equipment installation areas by field measurements before equipment fabrication and indicate measurements on Shop Drawings and Coordination Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

1. Established Dimensions: Where field measurements cannot be made without delaying the Work, establish required dimensions and proceed with fabricating equipment without field measurements. Coordinate construction to ensure actual dimensions correspond to established dimensions.

2. Food service aisles shall be a minimum 36" wide and tray slides shall be mounted at 34" maximum above the floor. Ensure compliance with paragraphs 1.5.J and 1.5.Q.

1.8 COORDINATION

A. Coordinate equipment layout and installation with other work, including light fixtures, HVAC equipment, and fire-suppression system components.

B. Coordinate location and requirements of service-utility connections.

C. Coordinate size, location, and requirements of concrete bases, positive slopes to drains, floor depressions, and insulated floors. Concrete, reinforcement, and formwork requirements are specified in Division 3 Section "Cast-in-Place Concrete."

D. Coordinate installation of roof curbs, equipment supports, and roof penetrations. These items are specified in Division 7 Section "Roof Accessories."

1.9 WARRANTY

A. General Warranty: The special warranty specified in this Article shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by the Contractor under requirements of the Contract Documents. Warranty period: 1 year from date of substantial completion.

B. Refrigeration Compressor Warranty: 5 years from date of substantial completion. Submit a written warranty signed by manufacturer agreeing to repair or replace compressors that fail in materials or workmanship within the specified warranty period.

PART 2 - PRODUCTS

2.1 MATERIALS - METAL

A. Submit a certified copy of the mill analysis of materials if requested by the Architect.

B. Finish shall be 304 #4 brushed finished except edges where it shall be #8 polished finish.

C. Protective covering shall be provided on all polished surfaces of stainless steel sheet work, and retained and maintained until time of final testing, cleaning, start-up and substantial completion.

D. Stainless-Steel Sheet, Strip, Plate, and Flat Bar: ASTM A 666, Type 304, stretcher leveled, and in finish specified in "Stainless-Steel Finishes" Article.

1. Stainless steel finishes

a. General: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations relative to applying and designating finishes.

1) Remove or blend tool and die marks and stretch lines into finish.

2) Grind and polish surfaces to produce uniform, directional textured, polished finish indicated, free of cross scratches. Run grain with long dimension of each piece.

b. Concealed surfaces: No. 2B finish (bright, cold-rolled, unpolished finish).

c. Exposed surfaces: No. 4 finish (bright, directional polish).

d. When polishing is completed, passivate and rinse surfaces. Remove embedded foreign matter and leave surfaces chemically clean.

e. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipment.

E. Stainless-Steel Tube: ASTM A 554, Grade MT-304, and in finish specified in "Stainless-Steel Finishes" Article.

F. Zinc-Coated Steel Sheet: ASTM A 653, G115 (ASTM A 653M, Z350) coating designation; commercial quality; cold rolled; stretcher leveled; and chemically treated.

G. Zinc-Coated Steel Shapes: ASTM A 36 (ASTM A 36M), zinc-coated according to ASTM A 123 requirements.

H. Sealant: ASTM C 920; Type S, Grade NS, Class 25, Use NT. Provide elastomeric sealant NSF certified for end-use application indicated. Provide sealant that, when cured and washed, meets requirements of Food and Drug Administration's 21 CFR, Section 177.2600 for use in areas that come in contact with food.

1. Color: As selected by Architect from manufacturer's full range of colors.

2. Backer Rod: Closed-cell polyethylene, in diameter larger than joint width.

I. Sound Dampening: NSF-certified, nonabsorbent, hard-drying, sound-deadening coating. Provide coating compounded for permanent adhesion to metal in 1/8-inch (3-mm) thickness that does not chip, flake, or blister.

J. Gaskets: NSF certified for end-use application indicated; of resilient rubber, neoprene, or PVC that is nontoxic, stable, odorless, nonabsorbent, and unaffected by exposure to foods and cleaning compounds.

K. Casters: NSF-certified, heavy duty, stainless-steel, swivel stem casters with 5-inch-(125-mm-) diameter wheels, polyurethane tires with 1-inch (25-mm) tread width, and 200-lb (90-kg) load capacity per caster. Provide brakes on 2 casters per unit.

L. Approved manufacturers for custom fabricated equipment are: Stainless Fixtures Inc. (909) 622-1615, B&W Custom Restaurant Equipment (714) 578-0332 or Kemco (909) 923-3153.

2.2 MATERIALS – CASEWORK/MILLWORK

A. Cabinet Hardware: Provide NSF-certified, stainless-steel hardware for equipment items as indicated. Pulls, Handles and Catches to be included.

B. All wood to be thoroughly seasoned and kiln dried prior to being used for fabrication of custom casework. All wood to be free from knots, pitchy seams, or other imperfections. All exposed wood to be grade A pine.

C. All plywood to be thoroughly seasoned and kiln dried prior to being used. All plywood to be free from knots, pitchy seams, and other imperfections. All plywood to be glued with water resistant resin. Particle board may not be substituted for plywood panels. "W.I. - Custom Grade" marine grade plywood is required on all fixtures to be installed in high humidity environments.

D. All wood to have less than 12% moisture content and be a species listed by the national hardwood association.

E. Plastic laminates shall be 1/16th thick, general purpose grade GP-50 as manufactured by Wilson Art or equal. Patterns, textures, and colors as specified under individual items. Semi ex-posed and cabinet liners shall be CL-20. Countertops, backsplashes and edges shall be grade GP-50 on exposed and grade BK-20 on underside of tops. Exposed vertical surfaces and cabinet liners shall be grade CL-20. Sides and edges of shelving shall be grade 50. Adhesive shall be waterproof and low VOC.

F. Hardware that is furnished and installed shall be of solid material unless specified otherwise. The hardware shall be provided with the necessary mechanisms for locking. All locks shall be furnished with two (2) keys.

G. Solid Surface Material (SSM) shall be Caesarstone, Silestone or approved equal and installed over 3/4" plywood per manufacturer's instructions. Provide air space, trim and /or insulation around any heat or cold producing equipment to guard against discoloration and cracking.

H. Approved manufacturers for custom fabricated equipment are: Stainless Fixtures Inc. (909) 622-1615, B&W Custom Restaurant Equipment (714) 578-0332 or Kemco (909) 923-3153.

2.3 FABRICATION, GENERAL, METAL,

A. Fabricate food service equipment according to NSF (standards 2, 4 & 7) requirements. Factory assemble equipment to the greatest extent possible.

B. STAINLESS-STEEL EQUIPMENT: for all parts of custom tables, tops, benches, sinks, cabinets, etc., as drawn or as specified, shall be AICI type 304 (18-8 Austenitic). All gauges called for shall be U.S. Standard Gauges, "S/S" or "S.S." as shown in the drawings or specifications, shall indicate stainless steel.

1. Edges and Backsplashes: Provide equipment edges and backsplashes indicated complying with referenced SMACNA standard, unless otherwise indicated.

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SEAL

LICENSED ARCHITECT
AMMAR NAJI SARSAM
C-30902
12/31/2023
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANTS

webb.
1530 S. Lewis St. Anaheim, CA 92805
P 714.508.1880 www.webbfsd.com

PROJECT TITLE

HRC TEMP RELOCATABLE CLASSROOM & RESTROOM
9200 VALLEY VIEW ST,
CYPRESS, CA 90630

Cypress College

CYPRESS COMMUNITY COLLEGE
9200 VALLEY VIEW ST.
CYPRESS, CA 90630

ISSUED

#	DATE	DESCRIPTION
	04/06/2023	DSA BACKCHECK SUBMITTAL

PROJECT IDENTIFICATION

THE DRAWINGS IN THE SHEET INDEX WERE ORIGINALLY CREATED IN AUTODESK REVIT V. 2018 UNLESS OTHERWISE NOTED.

THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42".

SHEET TITLE

SPECIFICATION

SHEET NUMBER

FS-901

DSA SUBMITTAL

2. Apply sound dampening to underside of metal work surfaces, including sinks and similar units. Provide coating with smooth surface and hold coating 1 inch (25 mm) back from open edges for cleaning.

3. Tables: Fabricate with reinforced tops, legs, and reinforced undershelves or cross bracing to comply with referenced SMACNA standard, unless otherwise indicated, and as follows:

   a. Tops: Minimum #14 gauge / 0.0781-inch- (1.984-mm-) thick stainless steel, unless otherwise indicated.

   b. Legs: 1-5/8 inch (41.3 mm) OD, minimum #16 gauge / 0.0625-inch- (1.588-mm-) thick stain-less steel with stainless-steel gusset and adjustable insert bullet-type feet with minimum adjustment of 1 inch (25 mm) up or down without exposing threads, unless otherwise indicated.

   c. Undershelves: Minimum #16 gauge / 0.625-inch- (1.588-mm-) thick stainless steel, unless otherwise indicated.

   d. Top and Undershelf Reinforcement: Provide minimum #14 gauge / 0.0781-inch- (1.984-mm-) thick, stainless-steel reinforcing, unless otherwise indicated.

   e. Cross Bracing: 1-1/4 inch (31.75 mm) OD, minimum #16 gauge / 0.0625-inch- (1.588-mm-) thick stainless steel, unless otherwise indicated.

4. Counters: Fabricate with reinforced tops and undershelves to comply with referenced SMACNA standard, unless otherwise indicated, and as follows:

   a. Tops: Minimum #14 gauge / 0.0781-inch- (1.984-mm-) thick stainless steel, unless otherwise indicated.

   b. Undershelves: Minimum #16 gauge / 0.625-inch- (1.588-mm-) thick stainless steel, unless otherwise indicated.

   c. Top and Undershelf Reinforcement: Provide minimum #14 gauge / 0.0781-inch- (1.984-mm-) thick, stainless-steel reinforcing, unless otherwise indicated.

   d. Doors: Minimum #18 gauge / 0.0478-inch- (1.214-mm-) thick stainless steel, unless otherwise indicated. To be constructed with a integral door pull and to have a pivot hinge. Door to be finished as stainless steel or with a laminate panel insert as noted on drawings.

   e. Body: Minimum #18 gauge / 0.0478-inch- (1.214-mm-) thick stainless steel, unless otherwise indicated.

   f. Curb: Minimum #16 gauge / 0.625-inch- (1.588-mm-) thick galvanized steel, unless otherwise indicated.

5. Sinks: Fabricate of minimum #14 gauge / 0.0781-inch- (1.984-mm-) thick stainless steel with fully welded, 1-piece construction. Construct 2 sides and bottom of sink compartment from 1 stainless-steel sheet with ends welded integral and without overlapping joints or open spaces between compartments. Provide double-wall partitions between compartments with 1/2-inch- (13-mm-) radius rounded tops that are welded integral with sink body. Cove horizontal, vertical, and interior corners with 3/4-inch (19-mm) radius. Pitch and crease sinks to waste for drainage without pooling. Seat wastes in die-stamped depressions without solder, rivets, or welding.

   a. Wastes: 2-inch (50-mm), stainless steel ball valve, rotary-handle waste assembly with stainless-steel strainer plate, rough chrome plated body.

   b. Drainboards: Minimum #14 gauge / 0.0781-inch- (1.984-mm-) thick stainless steel, pitched to sink at 1/8 inch/12 inches (3 mm/300 mm) of length. Reinforce drainboards with minimum #14 gauge / 0.0781-inch- (1.984-mm-) thick stainless steel, unless otherwise indicated.

   c. Legs: 1-5/8 inch (41.3 mm) OD, minimum #16 gauge / 0.0625-inch- (1.588-mm-) thick stain-less steel with stainless-steel gusset welded to #12 gauge / 0.1094-inch- (2.779-mm-) thick, stainless-steel support plate. Provide adjustable insert bullet-type feet with minimum adjustment of 1 inch (25 mm) up or down without exposing threads, unless otherwise indicated.

   d. Drainboard Braces: 1 inch (25 mm) OD, minimum #16 gauge / 0.0625-inch- (1.588- mm-) thick stainless steel, unless otherwise indicated.

   e. Cross Bracing: 1-1/4 inch (31.75 mm) OD, minimum #16 gauge / 0.0625-inch- (1.588-mm-) thick stainless steel, unless otherwise indicated.

6. Wall Shelves and Overshelves: Fabricate to comply with referenced SMACNA standard, unless otherwise indicated, and with minimum #16 gauge / 0.0625-inch- (1.588-mm-) thick, stainless-steel shelf tops.

7. Drawers: Provide lift-out type, 1-piece, die-stamped drawer pan fabricated from #18 gauge / 0.050-inch- (1.27-mm-) thick stainless steel with inside corners radiused. Support drawer pan with #16 gauge / 0.0625-inch- (1.588-mm-) thick, stainless-steel channel frame welded to drawer front. Provide 1-inch- (25-mm) thick, double-wall front fabricated from #16 gauge / 0.0625-inch- (1.588-mm-) thick stainless steel and with integral recessed pull. Fill void in drawer front with semi rigid fiberglass sound dampening. Mount drawers on NSF-certified, full-extension, stainless-steel drawer slides that have minimum 100-lb (45-kg) load capacity per pair, ball-bearing rollers, and positive stop. Mount drawer slides for self-closing on drawer housing as indicated.

8. Refrigerated Bases: Unit to be all welded construction and fabricated in accordance with NSF Standard 7.

   a. Top: 18 gauge galvanized sub-top or 14 gauge stainless steel top.

   b. Exterior: Front and Sides to be 18 gauge number 4 finish type 304 stainless steel; bottom and back to be 18 gauge galvanized (unless otherwise noted).

   c. Interior liner: 20 gauge number 4 finish type 304 stainless steel with 3/8" radius corners.

   d. Insulation: Minimum 2" thick polyurethane foam in place insulation (CFC free).

   e. Doors: 18 gauge front and 20 gauge door pan number 4 finish type 304 stainless steel with 2" polyurethane foam in place insulation, long-life press in place gasket.

   f. Drawers: 300 lb. capacity with 14 gauge stainless steel track system, tandem 2" all stainless steel skate wheels, each drawer accommodates two 6" deep, 12" x 20" pans side by side.

   g. Shelving: Each door section shall have stainless steel wire racks.

   h. Provide remote fixture mounted on/off switches.

9. Refrigerated Pan Rails: Unit to be all welded construction and fabricated in accordance with NSF Standard 7.

   a. Top: 16 gauge number 4 finish type 304 stainless steel top and inner liner.

   b. Outer liner: To be 18 gauge type 304 stainless steel; bottom and back to be 18 gauge galvanized (unless otherwise noted).

   c. Insulation: Minimum 2" thick polyurethane foam in place insulation (CFC free).

   d. Drain: Provide with 1" stainless steel drain

   e. Control: Provide with on/off control to be filed installed.

C. Welding: Use welding rod of same composition as metal being welded. Use methods that minimize distortion and develop strength and corrosion resistance of base metal. Provide ductile welds free of mechanical imperfections such as gas holes, pits, or cracks.

1. Welded Butt Joints: Provide full-penetration welds for full-joint length. Make joints flat, continuous, and homogenous with sheet metal without relying on straps under seams, filling in with solder, or spot welding.

2. Grind exposed welded joints flush with adjoining material and polish to match adjoining surfaces.

3. Where fasteners are welded to underside of equipment, finish reverse side of weld smooth and underpressed.

4. Coat unexposed stainless-steel welded joints with suitable metallic-based paint to prevent corrosion.

5. After zinc-coated steel is welded, clean welds and abraded areas and apply SSPCPaint 20, high-zinc-dust-content, galvanizing repair paint to comply with ASTM A 780.

D. Fabricate field-assembled equipment prepared for field-joining methods indicated. For metal butt joints, comply with referenced SMACNA standard, unless otherwise indicated.

E. Where stainless steel is joined to a dissimilar metal, use stainless-steel welding material or fastening devices.

F. Form metal with break bends that are not flaky, scaly, or cracked in appearance; where breaks mar uniform surface appearance of material, remove marks by grinding, polishing, and finishing.

G. Sheared Metal Edges: Finish free of burrs, fins, and irregular projections.

H. Provide surfaces in food zone, as defined in NSF 2, free from exposed fasteners.

I. Cap exposed fastener threads, including those inside cabinets, with stainless-steel lock washers and stainless-steel cap (acorn) nuts.

J. Provide pipe slots on equipment with turned-up edges and sized to accommodate service and utility lines and mechanical connections.

K. Provide enclosures, including panels, housings, and skirts, to conceal service lines, operating components, and mechanical and electrical devices including those inside cabinets, unless otherwise indicated.

L. Seismic Restraints:

1. Fabricate to comply with referenced "SMACNA Guidelines for Seismic Restraint of Kitchen Equipment" in any State, province, or jurisdiction that has legislated this requirement as necessary for acceptance. This shall include:

   a. Identifying these items on the submittal drawings, Plans, Elevations, and Sections.

   b. Showing required SMACNA methods of restraint on the submittal drawings.

   c. Referencing the appropriate detail(s).

   d. Obtain regulatory approval for all seismic engineering details

2.4 FABRICATION, MILLWORK/CASEWORK

A. Fabricate food service equipment according to the "Manual of Millwork, current edition" of the Woodwork Institute, including all amended printed revisions, and NSF Standards. All composite wood products shall meet the latest California Air Resources Board (CARB) Composite Wood Products Regulations. Factory assemble equipment to greatest extent possible. All specially fabricated equipment must be by one manufacturer/fabricator per specialty acceptable to Consultant and the Owner.

B. Stone Material shall be Caesarstone, Cambria, Silestone or approved equal and installed and fabricated per manufacturer instructions, observing standards set forth by said manufacturer(s) regarding use of certified fabricators and installers. Provide air space, trim and /or insulation around any heat or cold producing equipment to guard against discoloration and cracking, always per manufacturer's instructions.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Unless expressly stipulated, and in a timely manner, no additional allowances will be made for Contractors or Manufacturers for errors, omissions or ambiguities not reported at time of bidding. Carefully review and compare the Contract Documents and at once report to Owner and/or Designer any errors, ambiguities, inconsistencies or omissions. Unless expressly stipulated, and in a timely manner, Kitchen Equipment Contractor shall be liable to Owner or Designer for any damage resulting from such errors, inconsistencies or omissions in the Contract Documents. Work shall not be done without approved Drawings, Specifications and/or Modifications and without receiving prior written receiving authorizations from Owner or Designer. Drawings and equipment specifications are intended to complement each other. Therefore, neither should be considered complete without the others.

B. Examine areas and conditions, with Installer present, for compliance with requirements or installation tolerances, service-utility connections, and other conditions affecting installation and performance of food service equipment. Do not proceed with installation until unsatisfactory conditions have been corrected.

C. Examine roughing-in for piping, mechanical, and electrical systems to verify actual locations of connections before installation.

D. Verify all conditions at the building, particularly door openings and passageways for large equipment. Coordinate with General Contractor access to insure delivery of equipment to the required areas. Coordination shall include, but not be limited to, early delivery, hoisting, window removal and/or delay of wall construction. All special equipment, handling charges, window removal, etc. shall be paid for by the Food Service Equipment Contractor.

E. Any and all food service equipment and equipment systems noted as "by owner/operator", "by purveyor", or "existing" in the food service construction documents are presented for reference only. These representations must be verified in writing by the food service equipment contractor, owner, operator, and/or general contractor prior to the release of "for construction" documentation. It will be the general contractor's responsibility to further verify and coordinate all necessary information pertaining to this equipment or systems making up, or relating to, this equipment including, but not limited to, local health department regulations, local sanitation code requirements, mechanical, structural, plumbing and electrical requirements prior to commencement of construction. Consultant or Architect take no responsibility for design, intent, function, performance, utility requirements, or code compliance of non-specified equipment.

3.2 INSTALLATION, GENERAL

A. Install food service equipment level and plumb, according to manufacturer's written instructions, original design, and referenced standards.

B. Complete equipment field assembly, where required, using methods indicated.

1. Provide closed butt and contact joints that do not require a filler.

2. Grind field welds on stainless-steel equipment smooth, and polish to match adjacent finish. Comply with welding requirements in "Fabrication, General" Article.

C. Install equipment with access and maintenance clearances according to manufacturer's written instructions and requirements of authorities having jurisdiction.

D. Provide cutouts in equipment, neatly formed, where required to run service lines through equipment to make final connections. Cut holes and provide sleeves for pipes on equipment, for drains, electrical, plumbing, etc., as required for proper installation. Verify sizes with Owner on the following items before ordering or fabrication: steam pans, sheet pans, trays, glass and cup racks.

E. Except for mobile and adjustable-leg equipment, securely anchor and attach items and accessories to walls, floors, or bases with stainless-steel fasteners, unless otherwise indicated.

F. Install hoods to comply with NFPA 96 requirements and to remain free from vibration when operating.

G. Install seismic restraints according to referenced SMACNA standard.

H. Install trim strips and similar items requiring fasteners in a bed of sealant. Fasten with stainless-steel fasteners at 48 inches (1200 mm) O.C. maximum.

I. Install sealant in joints between equipment and abutting surfaces with continuous joint backing, unless otherwise indicated. Provide airtight, watertight, vermin-proof, sanitary joints.

J. Prohibit cold storage rooms from being used by any other trade for storage or work areas. Repair or cause replacement to any damaged areas on the interior of the cold storage rooms, if the damage was caused due to the cold storage rooms being used for storage or work areas.

3.3 PROTECTING

A. Provide final protection and maintain conditions, in a manner acceptable to manufacturer and installer that ensure food service equipment is without damage or deterioration at the time of Substantial Completion.

3.4 START-UP, TESTING AND COMMISSIONING

A. Startup Services: Engage factory-authorized service representatives to perform startup services for all equipment.

1. Coordinate food service equipment startup with service-utility testing, balancing, and adjustments. Do not operate steam lines before they have been cleaned and sanitized. Provide demonstrations for both operations and maintenance personnel.

2. Remove protective coverings and clean and sanitize equipment, both inside and out, and re-lamp equipment with integral lighting. Where applicable, comply with manufacturer's written cleaning instructions.

3. Test each equipment item for proper operation. Repair or replace equipment that is defective in operation, including units that operate below required capacity or that operate with excessive noise or vibration.

   a. Start up and testing for ice making equipment to be performed by the Original Equipment Manufacturer's authorized representative after substantial completion by the FSEC prior to final testing. All issues of installation hook-up and operational conditions are to be addressed. Any conditions not meeting operational needs will be identified and reviewed with the FSEC and/or GC.

   b. Type I grease hoods and fire protection systems are to be reviewed by the Original Equipment Manufacturer's authorized representative after substantial completion and prior to final testing. This review shall also take place prior to the start-up and demonstration of any cooking equipment under the hood. All issues of installation hook-up and operational conditions will be addressed. Any conditions not meeting operational needs will be identified and reviewed with the FSEC and/or GC. A field inspection report will be provided as part of the Owner's equipment manual and submitted to the GC and local fire marshal when required by code.

4. Provide maintenance and proper operations training to both the client maintenance and operations staff.

5. Provide maintenance manuals, service parts manuals and product schedule in accordance with paragraphs 1.4.K and 1.4.K.1

B. Demonstration and Commissioning: Representatives of authorized service agencies, manufacturer or original equipment supplier shall provide these services with FSEC in attendance.

1. Demonstrate in the presence of the owner, owner's designated representative and owner's maintenance and operations personnel the proper initial start-up, operation clean-up, preventative maintenance safety procedures of each item of equipment.

2. FSEC is to provide a signed log or record of all demonstrations, training and start-ups conducted to the owner with equipment operations manuals.

3.5 FOOD SERVICE EQUIPMENT SCHEDULE

SIS# W010

ITEM # 2-01 LOW TEMPERATURE HOT FOOD HOLDING CABINETS (CFCI)

Quantity: Two (2)
Manufacturer: Alto-Shaam
Model: - 1000S

1. Two (2) Model - 1000S Standard features
• Simple and intuitive pushbutton control that commands all appliance functions with easily identifiable icons
• Halo Heat—a controlled, uniform heat source that gently surrounds food for better appearance, taste, and longer holding life
• Stainless steel interior resists corrosion
• Digital control senses temperature drops faster, providing quick heat recovery time
• Close temperature tolerance and even heat application maintain ideal serving temperature throughout the cabinet
• Door venting holds crispy food better

ITEM # 2-02 REACH-IN REFRIGERATOR ()CFCI

Quantity: One (1)
Manufacturer: Traulsen
Model: CLBM-49R-FG-LR

ITEM # 2-06 RACK DOLLY (CFCI)

Quantity: Two (2)
Manufacturer: Cambro
Model: CDR2020151

1. Two (2) Model CDR2020151 Camdolly® for Camracks, 21-3/8"L x 21-3/8"W x 8"H (exterior dimensions), without handle, platform design, (4) swivel 3-1/2" casters, no brakes, lightweight, durable, soft gray polypropylene

ITEM # 2-07 FATWARE DISPENSER (CFCI) <NIC>

Quantity: Two (2)
Manufacturer:
Model: PROVIDED BY OWNER

1. Two (2) Model PROVIDED BY OWNER Fatware Dispenser - By Owner

ITEM # 2-08 SPARE NO.

ITEM # 2-09 SPARE NO.

ITEM # 2-10 SPARE NO.

ITEM # 2-11 WALL SHELF (KNIFE BRACKETS) (CFCI)

Quantity: One (1)
Manufacturer: Stainless Fixtures Inc
Model: WSK-WBB

1. One (1) Model WSK-WBB Approximately 6'-0" l x 1'-0" w. Provide Stainless Fixtures, Inc. stainless steel wall shelf with knife brackets. Wall shelf shall be: 16 ga stainless steel with #4 finish, bracket shall be 14 ga stainless steel. Fabricate and install per complete drawings, schedules, elevations, and details.
2. One (1) This item to have polished edges standard.

ITEM # 2-12 WALL MOUNT HAND SINK W/SOAP & TOWEL DISPENSER (CFCI)

Quantity: One (1)
Manufacturer: Eagle Group
Model: HSAP-14-ADA-FW (NO FAUCET)

1. One (1) Model HSAP-14-ADA-FW (NO FAUCET) Hand Sink, wall mount, 14" wide x 16" front-to-back x 5" deep bowl, 16/304 stainless steel construction, splash mount gooseneck faucet with wrist handles & mixer valve, marine edge on front & sides, 1/2" NPS water inlet, chrome-plated P-trap, wrist handles, soap dispenser, basket drain, skirt assembly & paper towel dispenser, PHYSICALLY CHALLENGED, NSF
2. One (1) Model -LRS Left & right side splashes

ITEM # 2-13 WALL / SPLASH MOUNT FAUCET (CFCI)

Quantity: One (1)
Manufacturer: Fisher
Model: 62650

1. One (1) Model 62650 Faucet, backsplash mount, 4" centers, 6" swivel/rigid gooseneck spout (use included star washer to make rigid), wrist handles with color coded indexes, 1/2" NPT male inlets, with elbows, stainless steel, ADA Compliant
2. One (1) 5 year warranty against defects in materials or workmanship, standard
3. One (1) Model 74334 SS AERATOR 55/64-27F 1.50 GPM

ITEM # 2-14 WALL SHELF (KNIFE BRACKETS) (CFCI)

Quantity: One (1)
Manufacturer: Stainless Fixtures Inc
Model: WSK-WBB

1. One (1) Model WSK-WBB Approximately 27'-0" l x 1'-0" w. Provide Stainless Fixtures, Inc. stainless steel wall shelf with knife brackets. Wall shelf shall be: 16 ga stainless steel with #4 finish, bracket shall be 14 ga stainless steel. Fabricate and install per complete drawings, schedules, elevations, and details.
2. One (1) This item to have polished edges standard.

ITEM # 2-15 WORK TABLE (CFCI)

Quantity: One (1)
Manufacturer: Stainless Fixtures Inc

Model: WT-WBB

1. One (1) Model WT-WBB Approximately 27'-0" l x 2'-6" w. Provide stainless steel work table with 1-5/8" legs with adjustable bullet feet, lower and/or mid shelves, 6" high back and end splash (where required). Top shall be 14 ga stainless steel, and legs shall be 16 ga. Fabricate and install per complete drawings, schedules, elevations, and details.
2. One (1) This item to have polished edges standard.

END OF SECTION 11 40 00 FOOD SERVICE EQUIPMENT SPECIFICATIONS

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RENEWAL DATE
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PROJECT TITLE

HRC TEMP RELOCATABLE CLASSROOM & RESTROOM
9200 VALLEY VIEW ST,
CYPRESS, CA 90630

Cypress College

CYPRESS COMMUNITY COLLEGE
9200 VALLEY VIEW ST.
CYPRESS, CA 90630

ISSUED

#	DATE	DESCRIPTION
	04/06/2023	DSA BACKCHECK SUBMITTAL

PROJECT IDENTIFICATION

THE DRAWINGS IN THE SHEET INDEX WERE ORIGINALLY CREATED IN AUTODESK REVIT V. 2018 UNLESS OTHERWISE NOTED.

THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42".

SHEET TITLE

SPECIFICATION

SHEET NUMBER

FS-902

DSA SUBMITTAL

LEGEND

SYMBOL	DESCRIPTION
	NOTE CALLOUT
	DETAIL CALLOUT - NUMBER ON TOP DENOTES DETAIL NUMBER - NUMBER ON BOTTOM DENOTES SHEET DETAIL IS SHOWN
	PLUMBING FIXTURE CALLOUT, SEE PLUMBING PLANS FOR EXACT LOCATION AND REQUIREMENTS
	EQUIPMENT CALLOUT, SEE PLUMBING PLANS FOR EXACT LOCATION AND REQUIREMENTS
	SECTION CALLOUT
	POINT OF CONNECTION
	POINT OF DISCONNECTION
4" CHWR	NEW PIPE (SIZE-SERVICE)
	EXISTING PIPE/EQUIPMENT
	DEMOLISHED PIPE/EQUIPMENT
	SANITARY VENT
	DOMESTIC / INDUSTRIAL HOT WATER RETURN
	DOMESTIC / INDUSTRIAL HOT WATER SUPPLY
	DOMESTIC / INDUSTRIAL COLD WATER
	VALVE AT DROP
	VALVE AT RISE
	ELBOW DOWN
	PIPE TEE UP & DOWN OR ELBOW UP
	PIPE TEE DOWN
	PIPE TEE UP
S	SOLENOID VALVE
	GATE VALVE
	BALL VALVE
	BALANCING VALVE
	PRESSURE REDUCING VALVE
	CHECK VALVE, SWING
	PLUG VALVE
	STRAINER, Y-TYPE
FM	FLOW METER
	BACKFLOW PREVENTER
	HOSE BIBB
	FLOOR DRAIN
	FLOOR SINK, 1/2 GRATE
	AREA DRAIN / INDUSTRIAL RECEPTOR
	SHUT-OFF VALVE IN YARDBOX
	FLOOR CLEANOUT
	CLEANOUT TO GRADE
	WALL CLEANOUT
	WATER HAMMER ARRESTOR
	TRAP PRIMER

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
@	AT
A/C	ABOVE CEILING
ABV	ABOVE
AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFSR	AUTOMATIC FIRE SPRINKLER RISER
B/F	BELOW FLOOR
B/G	BELOW GRADE
BEL	BELOW
BFP	BACKFLOW PREVENTER
BTM	BOTTOM
BV	BALL VALVE
CI	CAST IRON
CIP	CAST IRON PIPE
CLG	CEILING
COTG	CLEAN-OUT TO GRADE
CU	CU/BIC
DEPT	DEPARTMENT
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DN	DOWN
DS	DOWNSPOUT
DWG	DRAWING(S)
EQUIP	EQUIPMENT
EWC	ELECTRICAL WATER COOLER
EXIST / (E)	EXISTING
F/A	FROM ABOVE
F/B	FROM BELOW
FCO	FLOOR CLEAN-OUT
FD	FLOOR DRAIN
FF	FINISHED FLOOR
FM	FORCE MAIN
FS	FLOOR SINK
FT	FEET
GPM	GALLONS PER MINUTE
GPR	GAS PRESSURE REGULATOR
H&CW	HOT AND COLD WATER
H/L	HIGH LEVEL
HDR	HEADER
IN	INCHES
L or LAV	LAVATORY
MAX	MAXIMUM
MIN	MINIMUM
MTD	MOUNTED
NTS	NOT TO SCALE
OS & Y	OPEN SCREW AND YOKE
POC	POINT OF CONNECTION
POD	POINT OF DISCONNECTION
PSI	POUNDS PER SQUARE INCH
RD	ROOF DRAIN
RI & C	ROUGH-IN AND CONNECT
SOV	SHUT-OFF VALVE
SQ	SQUARE
SS	SERVICE SINK
T/A	TO ABOVE
T/B	TO BELOW
TP	TRAP PRIMER
TYP	TYPICAL
U	URINAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
VTR	VENT THRU ROOF
W/	WITH
WC	WATER CLOSET
WCO	WALL CLEAN-OUT
WH	WATER HEATER
WHA	WATER HAMMER ARRESTOR

PIPE SYSTEM ABBREVIATIONS

ABBREVIATION	DESCRIPTION
CD	CONDENSATE DRAIN
CW	DOMESTIC COLD WATER
F	FIRE PROTECTION WATER SUPPLY
G	LOW PRESSURE NATURAL GAS
GW	GREASE WASTE
GWV	GREASE WASTE VENT
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
IW	INDIRECT WASTE
MPG	MEDIUM PRESSURE GAS
S	SANITARY
V	VENT
W	WASTE

GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH THE 2019 EDITIONS OF THE CALIFORNIA BUILDING, MECHANICAL, PLUMBING, AND OTHER APPLICABLE FEDERAL, STATE, OR LOCAL CODES AS ADOPTED AND ENFORCED BY THE LOCAL JURISDICTION. IN CASE THE PLANS SHOW MORE STRINGENT REQUIREMENTS, THE PLANS SHALL GOVERN THE DESIGN, YET NOTHING ON THE DESIGN DOCUMENTS SHALL BE INTERPRETED AS AUTHORITY TO VIOLATE CODE(S) OR REGULATION(S).

2. SUBMISSION OF BID IN CONNECTION WITH THIS WORK SHALL IMPLY THAT THE BIDDER HAS EXAMINED THE JOB SITE UNDER WHICH THE CONTRACTOR WILL BE OBLIGATED TO OPERATE UNDER THIS CONTRACT. NO EXTRA CHARGE WILL BE ALLOWED FOR FAILURE OF ANY BIDDER TO EXAMINE THE SITE PRIOR TO BID.

3. WHERE USED, THE TERM "PROVIDE" SHALL MEAN "FURNISH AND INSTALL".

4. IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON DESIGN PLANS / SPECIFICATIONS WITH CODE REQUIREMENTS, THE MORE STRINGENT STANDARD SHALL PREVAIL.

5. CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES PRIOR TO FABRICATION, PURCHASE AND/OR INSTALLATION OF ALL WORK.

6. CONTRACTOR SHALL FURNISH LABOR, MATERIALS, EQUIPMENT, AND TRANSPORTATION AS REQUIRED TO PROPERLY INSTALL ALL PLUMBING SYSTEMS OR RELATED COMPONENTS AS INDICATED ON PLANS AND SPECIFIED HEREIN.

7. CONTRACTOR SHALL DOCUMENT AND RELAY ANY MAJOR DEVIATIONS FROM THE DESIGN DOCUMENTS, AND ATTAIN APPROVAL FROM THE MECHANICAL ENGINEER BEFORE PROCEEDING. AS-BUILT COPIES SHALL BE PROVIDED INDICATING ALL CHANGES / DEVIATIONS MADE DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE COMPLETED AS-BUILT DRAWINGS IN THE LATEST VERSION OF AUTOCAD OR REVIT.

8. NO PIPING, EQUIPMENT, ETC. SHALL BE REMOVED, DISCONNECTED OR SHUT DOWN WITHOUT PRIOR REVIEW WITH THE FACILITY TO CONFIRM THAT AREAS TO REMAIN IN OPERATION WILL NOT BE AFFECTED. IF ANY AREAS NOT WITHIN THE SCOPE OF WORK ARE AFFECTED BY ANY SHUTDOWN, REMOVAL OR DISCONNECTION, SUFFICIENT ADVANCE NOTICE MUST BE GIVEN TO THE FACILITY INDICATING WHICH AREAS WILL BE AFFECTED, WHEN THE PROPOSED SHUTDOWN WILL OCCUR, AND FOR HOW LONG A PERIOD OF TIME.

9. THE ARRANGEMENT OF EQUIPMENT AND PIPING SHOWN ON THE DRAWINGS IS BASED UPON INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF DESIGN AND IS NOT INTENDED TO SHOW EXACT DIMENSIONS PECULIAR TO A SPECIFIC MANUFACTURER. THE DRAWINGS ARE, IN PART, DIAGRAMMATIC AND SOME FEATURES OF THE ILLUSTRATED EQUIPMENT INSTALLATION MAY REQUIRE REVISION TO MEET ACTUAL EQUIPMENT INSTALLATION REQUIREMENTS. STRUCTURAL SUPPORTS, FOUNDATIONS, CONNECTED PIPING, VALVES, PIPE SUPPORTS AND ELECTRICAL CONDUIT SPECIFIED MAY HAVE TO BE ALTERED OR ADDITIONAL ITEMS REQUIRED TO ACCOMMODATE THE EQUIPMENT PROVIDED. NO ADDITIONAL PAYMENT WILL BE MADE FOR SUCH REVISIONS, ALTERATIONS AND / OR ADDITIONS.

10. ALL CONNECTIONS TO EXISTING SERVICES SHALL BE MADE SUCH THAT INTERRUPTION TIME WILL BE AS SHORT AS POSSIBLE. THE CONTRACTOR SHALL GIVE THE OWNER'S REPRESENTATIVE SUFFICIENT NOTICE OF SUCH INTERRUPTION AND THE ACTUAL SHUT DOWN TIME SHALL BE AT A TIME DESIGNATED BY THE OWNER'S REPRESENTATIVE.

11. ALL VALVES, UNIONS, ETC. TO BE SAME SIZE AS LINE SIZE UNLESS OTHERWISE INDICATED ON DRAWINGS.

12. UNIONS SHALL BE PROVIDED AND INSTALLED AFTER EACH SCREW-TYPE VALVE AND PRIOR TO EQUIPMENT CONNECTIONS.

13. ALL SOIL, WASTE, GREASE WASTE AND VENT PIPING SHALL SLOPE AT 2% UNLESS OTHERWISE INDICATED.

14. BEFORE FABRICATION OR INSTALLATION, THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EQUIPMENT AND FIXTURES. EXACT ROUGH-IN LOCATIONS AND REQUIREMENTS SHALL BE COORDINATED IN FIELD.

15. CLEANOUTS SHALL BE PROVIDED PER 2019 CPC SECTION 707.0 & 719.0 AND TO THE FOLLOWING LOCATIONS:

    A. AT EVERY 100 FT OF STRAIGHT RUN OF HORIZONTAL PIPING .

    B. AT EACH AGGREGATE HORIZONTAL CHANGE IN DIRECTION EXCEEDING ONE HUNDRED THIRTY-FIVE (135) DEGREES.

16. UNLESS SPECIFIED ON STRUCTURAL DRAWINGS, ANY ALTERATION OR MODIFICATIONS TO STRUCTURAL ELEMENTS BY CUTTING, DRILLING, BORING, BRACING, WELDING ETC. SHALL HAVE WRITTEN APPROVAL BY THE STRUCTURAL ENGINEER PRIOR TO START WORK.

17. MEP COMPONENT ANCHORAGE NOTE:

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

    A. ALL PERMANENT EQUIPMENT AND COMPONENTS.

    B. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.

    C. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

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

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

    B. COMPONENTS 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.

    C. THE ANCHORAGE OF ALL 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.

18. PIPING DISTRIBUTION SYSTEM BRACING NOTE:

    PIPING DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

    THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2019 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

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

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

    MP ☐ MD ☐ PP☒ E ☐ - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) 0043-13

SHEET INDEX

DSA STAMP

HPI architecture
www.hpiarchitecture.com
115 22nd street
Newport Beach, CA 92663
o: 949.675.6442

SEAL

LICENSED ARCHITECT
AMMAR NAJI SARSAM
C-30902
12/31/2023
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANTS

P2S ENG
5000 East Spring Street, Suite 800
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REGISTERED PROFESSIONAL ENGINEER
ALEXANDRIA SASSOON
MECHANICAL
STATE OF CALIFORNIA

PROJECT TITLE

HRC TEMP RELOCATABLE CLASSROOM & RESTROOM

Cypress College

CYPRESS COMMUNITY COLLEGE

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PROJECT IDENTIFICATION

THE DRAWINGS IN THE SHEET INDEX WERE ORIGINALLY CREATED IN AUTODESK REVIT V. 2018 UNLESS OTHERWISE NOTED.

THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42".

SHEET TITLE

GENERAL NOTES, LEGEND, ABBREVIATIONS AND SHEET INDEX

SHEET NUMBER

P0.1

DSA SUBMITTAL
NOT FOR CONSTRUCTION

DOMESTIC WATER CALCULATION

PRESSURE AVAILABLE : 36 PSI					
RESIDUAL PRESSURE	= 36 PSI	MAX. VELOCITY	= 8	F/S (COLD)	
STATIC PRESSURE	= 50 PSI	MAX. VELOCITY	= 5	F/S (HOT)	
DOMESTIC WATER DEMAND :	= 71 GPM				
FLOW TEST PERFORMED ON 06/03/2022 BY THE MARX BROTHERS FIRE EXT. CO.					
PRESSURE LOSS					
1 PRESSURE REQUIRED AT THE FARTHEST FIXTURE				25	PSI
2 PRESSURE LOSS DUE TO EXISTING METER LOSS				1	PSI
3 PRESSURE LOSS THRU BACKFLOW DEVICE.				0	PSI
4 STATIC HEAD LOSS (15 FT.)				6	PSI
5 TOTAL PRESSURE LOSS				32	PSI
LOSS AVAILABLE FOR FRICTION					
6 MIN PRESSURE AVAILABLE - ITEM 5				4	PSI
LENGTH OF RUN FROM METER TO FARTHEST FIXTURE					
OUTSIDE BUILDING (FROM WATER MAIN TO BUILDING)				10	FT
INSIDE BUILDING				40	FT
7 TOTAL LENGTH				50	FT
EQUIVALENT LENGTH OF RUN					
8 ITEM 7 + 50%				75	FT
ALLOWABLE FRICTION LOSS					
9 ITEM 6 X 100 / ITEM 8				5.33	PSI/100 FT

PIPE SIZE CHART FOR COLD WATER SIZING AT 8 F/S MAX VELOCITY

PIPE SIZE	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
GPM	2.05	6.0	12.7	22.9	36.9	78.3	122.4	176.2	313.3
FU (FT)	2	7	18	35	69	247	474	748	1755
FU (FV)	0	0	0	0	21	126	357	700	1755
VEL (FPS)	3.35	4.33	5.19	5.97	6.70	8.00	8.00	8.00	8.00

PIPE SIZE CHART FOR HOT WATER SIZING AT 5 F/S MAX VELOCITY

PIPE SIZE	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
GPM	2.05	6.0	12.7	19.1	27.5	49.0	76.5	110.2	195.8
FU (FT)	2	7	18	35	69	247	474	748	1755
VEL (FPS)	3.35	4.33	5.19	5.00	5.00	5.00	5.00	5.00	5.00

GAS LOAD CALCULATION - KITCHEN

BASIS: 2019 CPC CHAPTER 12 TABLE 1216.2(1) (FUEL GAS PIPING) & NFPA 54: TABLE 6.2(b). VOLUME DEMANDS BASED ON "PUBLIC" VALUES.

SYSTEM PRESSURE: 8" w.c. DOWNSTREAM OF THE GAS REGULATOR ASSEMBLY. TOTAL DEVELOPED LENGTH: 175 FT.

EQUIPMENT	QTY.	GAS DEMAND	
		INPUT (CFH)	TOTAL (CFH)
WATER HEATER	3	299	897.0
DOUBLE CONVECTION OVEN (FS-201)	3	126	378.0
CONVECTION STEAMER (FS-201)	1	32	32.0
40 GAL. TILTING KETTLE (FS-201)	1	140	140.0
BURNER RANGE W/ OVEN (FS-201)	6	220	1320.0
GRIDDLE W/ OVEN (FS-201)	1	100	100.0
RADIENT GAS BROILER (FS-201)	1	114	114.0
FRYER ASSEMBLY (FS-201)	2	80	160.0
TOTAL GAS LOAD			1307.0

FIXTURE LOAD CALCULATION - RESTROOM

BASIS: 2019 CPC APPENDIX "A" TABLE A-2 (WATER SUPPLY FIXTURE UNITS) & CHAPTER 7 TABLE 7-3 (DRAINAGE FIXTURE UNIT VALUES). VOLUME BASED ON "PUBLIC" VALUES

FIXTURE	QTY.	COLD WATER		HOT WATER		DRAINAGE/WASTE	
		FIXTURE UNITS	TOTAL FU	FIXTURE UNITS	TOTAL FU	FIXTURE UNITS	TOTAL FU
WATER CLOSET (PRE-PLUMBED)	7	5.0	35.0			4.0	28.0
URINAL (PRE-PLUMBED)	2	4.0	8.0			2.0	4.0
LAVATORY (PRE-PLUMBED)	6	1.0	6.0	0.75	4.5	1.0	6.0
FLOOR DRAIN (PRE-PLUMBED)	2					2.0	4.0
TOTAL FIXTURE UNITS			49.0		4.50		42.0
TOTAL DEMAND - GPM			51		15		

FIXTURE LOAD CALCULATION - KITCHEN

BASIS: 2019 CPC APPENDIX "A" TABLE A-2 (WATER SUPPLY FIXTURE UNITS) & CHAPTER 7 TABLE 7-3 (DRAINAGE FIXTURE UNIT VALUES). VOLUME BASED ON "PUBLIC" VALUES

FIXTURE	QTY.	COLD WATER		HOT WATER		DRAINAGE/WASTE	
		FIXTURE UNITS	TOTAL FU	FIXTURE UNITS	TOTAL FU	FIXTURE UNITS	TOTAL FU
MOP SINK (SEE SHEET FS-201)	1	1.5	1.5	1.0	1.0	1.0	1.0
DISHWASHER (SEE SHEET FS-201)	1	1.5	1.5			2.0	2.0
HAND SINK (SEE SHEET FS-201)	4	1.0	4.0	0.75	3.0	1.0	4.0
FLOOR SINK (SEE SHEET FS-201)	9					2.0	18.0
TOTAL FIXTURE UNITS			7.0		4.00		25.0
TOTAL DEMAND - GPM			20		15		

GREASE INTERCEPTOR

MARK	MANUFACTURER & MODEL	LOCATION	TYPE	SERVICE	GREASE CAPACITY (LBS.)	CAPACITY (GPM)	INLET SIZE (IN.)	OUTLET SIZE (IN.)	OVERALL DIMENSIONS			OPERATING WEIGHT (LBS)	REMARKS
									HEIGHT	LENGTH	WIDTH		
GI-1	ZURN MODEL Z1172	SOUTHEAST - EXTERIOR	ABOVE GROUND	PREP/BULK (COOKING)	200	100	4"	4"	35-1/2"	61"	43-5/8"	1016	WITH INTERNAL AIR RELIEF BY-PASS, BRONZE CLEANOUT PLUG AND VISIBLE DOUBLE WALL TRAP SEAL WITH REMOVABLE PRESSURE EQUALIZING/FLOW DIFFUSING BAFFLE. GASKETED NON-SKID SECURED COVER WITH REMOVABLE LIFT HANDLES, COMPLETE WITH FLOW CONTROL FITTING. ENTIRE INSTALLATION SHALL CONFIRM TO THE MANUFACTURER'S RECOMMENDATIONS. REFER TO DETAIL 3/P6.1.

GAS WATER HEATER

MARK	MANUFACTURER & MODEL	LOCATION	TYPE	GAS INPUT (MBTUH)	EFF (%)	STORAGE CAPACITY (GALLON)	TEMPERATURE		RECOVERY @ 100 °F (GPH)	TANK SIZE		ELECTRICAL REQUIREMENT			OPERATING WEIGHT (LBS)	REMARKS
							IN (°F)	OUT (°F)		DIAMETER (IN)	HEIGHT (IN)	VOLTS	PHASE	HERTZ		
WH-1	AO SMITH BTR-200A	EXTERIOR (SHEET P1.0)	TANK	199	80%	100	60	140	193	30-1/4"	72"	120	1	60	1460	COMPLETE WITH GAS PRESSURE REGULATOR, PILOT FILTER, ADJUSTABLE THERMOSTAT, VENTING KIT. ASME RATED T&P VALVE. PROVIDE NSF 5 LEG KIT PART #900342505. REFER TO DETAIL 1/P6.1.
WH-2	AO SMITH BTR-200A	EXTERIOR (SHEET P1.0)	TANK	199	80%	100	60	140	193	30-1/4"	72"	120	1	60	1460	COMPLETE WITH GAS PRESSURE REGULATOR, PILOT FILTER, ADJUSTABLE THERMOSTAT, VENTING KIT. ASME RATED T&P VALVE. PROVIDE NSF 5 LEG KIT PART #900342505. REFER TO DETAIL 1/P6.1.
WH-3	AO SMITH BTR-200A	EXTERIOR (SHEET P1.0)	TANK	199	80%	100	60	140	193	30-1/4"	72"	120	1	60	1460	COMPLETE WITH GAS PRESSURE REGULATOR, PILOT FILTER, ADJUSTABLE THERMOSTAT, VENTING KIT. ASME RATED T&P VALVE. PROVIDE NSF 5 LEG KIT PART #900342505. REFER TO DETAIL 1/P6.1.

PUMP SCHEDULE

MARK	MANUFACTURER & MODEL	LOCATION	TYPE	SERVICE	DESIGN POINT		ELECTRICAL REQUIREMENT				OPERATING WEIGHT (LBS)	REMARKS
					FLOW GPM	HEAD FT HD	HP	VOLT	PHASE	RPM		
CP-1	GRUNDFOS MODEL NO. UPS26-99SFC	EXTERIOR (SHEET P1.0)	IN-LINE	WH-1,2,3	5	15	1 / 6	120	1	-	12	3-SPEED STAINLESS STEEL WET ROTOR CIRCULATOR, SET @ SPEED 1. MAX. WORKING PRESSURE=145 PSI, MAXIMUM OPERATING TEMPERATURE= 230°F. PROVIDE GRUNDFOS 3/4" CLIP-ON AQUASTAT CONTROL MODEL 595444 AND AUTOMATIC TIMER KIT. INTERLOCK PUMP WITH AQUASTAT. REFER TO DETAIL 2/P6.1.

EXPANSION TANK

MARK	MANUFACTURER & MODEL	LOCATION	TYPE	SERVICE	TANK STORAGE (GAL)	ACCEPT. VOLUME (GAL)	CHARGING PRESSURE (PSIG)	WORKING PRESSURE (PSIG)	OPER. TEMP. (°F)	TANK SIZE		SYSTEM CONNECTION SIZE (NPT)	OPER. WEIGHT (LBS)	REMARKS
										DIAMETER (IN)	HEIGHT (IN)			
ET-1	AMTROL THERM-X-TROL MODEL ST-20VC-DD	EXTERIOR (SHEET P1.0)	STAND	WH-1	8.6	3.2	40	150	200	12	22	3/4	72	CONTRUCTION PER ASME BOILER PRESSURE VESSEL CODE STEEL CONSTRUCTION. PRE-CHARGED 55 PSIG. PROVIDE AMTROL FILL-TROL VALVE AS PART OF THE INSTALLATION.

MIXING VALVE

MARK	MANUFACTURER & MODEL	TYPE	PIPING REQUIREMENTS		REMARKS
			COLD WATER	HOT WATER	
TMV-1	ACORN MODEL MV17-3	THERMOSTATIC MIXING VALVE	2"	1-1/4"	SET DISTRIBUTION TEMPERATURE AT 120°F. ASSE 1017 CERTIFIED. DETAIL 1/P6.1.

PIPING MATERIALS

	SERVICE	MATERIALS
1.	DRAIN PIPING SANITARY SEWER, GREASE WASTE & STORM BELOW GRADE:	CAST IRON "NO-HUB" PIPE CONFORMING TO CISPI 301 AND ASTM A 888 WITH NEOPRENE GASKET AND HEAVY DUTY, SHIELDED, STAINLESS-STEEL 4 OR 6 BAND COUPLINGS. PIPE WRAP ALL UNDERGROUND PIPING.
2.	DRAIN PIPING SANITARY SEWER, GREASE WASTE & STORM ABOVE GRADE:	CAST IRON "NO-HUB" PIPE CONFORMING TO CISPI 301 AND ASTM A 888 WITH NEOPRENE GASKET AND HEAVY DUTY, SHIELDED, STAINLESS-STEEL 4 OR 6 BAND COUPLINGS.
3.	VENT PIPING FOR SANITARY SEWER, GREASE WASTE ABOVE GRADE:	CAST IRON "NO-HUB" PIPE CONFORMING TO CISPI 301 AND ASTM A 888 WITH NEOPRENE GASKET AND STANDARD, SHIELDED, STAINLESS-STEEL 2 OR 4 BAND COUPLINGS.
4.	DOMESTIC WATER PIPING BELOW GRADE:	TYPE 'K' COPPER TUBING, HARD DRAWN CONFORMING TO ASTM B 88, WITH LEAD FREE COPPER BRAZED FITTINGS AND JOINTS. AVOID UNNECESSARY JOINTS BELOW SLAB. PIPE WRAP ALL UNDERGROUND PIPING.
5.	DOMESTIC WATER PIPING ABOVE GRADE:	TYPE 'L' COPPER TUBING, HARD DRAWN CONFORMING TO ASTM B 88, WITH WROUGHT COPPER SOLDER SWEAT FITTINGS AND LEAD FREE-SOLDER JOINTS.
6.	CONDENSATE DRAIN PIPING:	TYPE 'L' COPPER TUBING, HARD DRAWN CONFORMING TO ASTM B 88, WITH WROUGHT COPPER SOLDER SWEAT FITTINGS AND LEAD-FREE SOLDER JOINTS. ALL CONDENSATE DRAIN PIPING WITHIN BUILDING SHALL BE INSULATED. ALL EXPOSED PIPING INCLUDING OVERFLOW CONDENSATE SHALL BE PAINTED TO MATH WALL AND/OR CEILING COLOR. COORDINATE COLOR WITH ARCHITECT.
9.	INSULATION OF DOMESTIC HOT WATER:	GLASS FIBER PIPE INSULATION WITH FACTORY-APPLIED JACKET CONFORMING TO ASTM C547. 1-INCH THICK FOR PIPE SIZES 1" AND SMALLER. 1 1/2-INCH THICK FOR PIPE SIZES 1 1/4" INCHES AND LARGER. SEAL ALL JOINTS WITH FACTORY-APPLIED, SELF-SEAL LAP AND BUTT STRIPS. JOHNS MANVILLE MICRO-LOK 'HP' OR EQUAL.
10.	GAS PIPING:	SCHEDULE 40 BLACK STEEL PIPE CONFORMING TO ASTM A 53 WITH 150 PSIG MALLEABLE IRON THREADED FITTINGS. WELDED JOINTS FOR PIPE SIZES 2 1/2" AND LARGER OR WELDED FOR ALL SIZES THROUGHOUT WHEN USED FOR MEDIUM PRESSURE. OUTDOOR PIPING EXPOSED TO ATMOSPHERE SHALL BE GALVANIZED STEEL PIPE OR PAINTED WITH RUST INHIBITING PAINT.
11.	GAS PIPING BELOW GRADE: (EXTERIOR SITE DISTRIBUTION)	POLYETHYLENE PIPE (PE) ORANGE OR YELLOW IN COLOR CONFIRMING TO ASTM D 2513, SDR-11 AND IAPMO INSTALLATION STANDARD IS-12 WITH PE FITTINGS CONFORMING TO ASTM D-2683, SOCKET-FUSION TYPE OR ASTM D-3261 WITH DIMENSIONS MATCHING PE PIPE. P.E. TRANSITION FITTINGS, FACTORY-FABRICATED FITTINGS WITH PE COMPLYING WITH ASTM D-2513, SDR-11. PROTECTIVE COATING FOR UNDERGROUND PIPING, FACTORY APPLIED, THREE-LAYER COATING OF EPOXY, ADHESIVE AND PE.
16.	PIPE PROTECTION: ALL UNDERGROUND METALLIC PIPE WHETHER BURIED OR ENCASED SHALL BE WRAPPED WITH ANTI-CORROSIVE 20 MIL PVC TAPE AND PRIMED OR INSTALLED IN 8 MIL POLYETHYLENE SLEEVE CONFORMING TO ASTM D-1248 AND/OR ANSI/AWWA C105/A21.5.	
17.	PIPE PROTECTION: PROVIDE NON-CONDUCTING DIELECTRIC CONNECTIONS JOINING DISSIMILAR METALS. LEAD FREE BRASS UNIONS WITH 6-INCH LEAD FREE BRASS NIPPLE.	
18.	TRACER WIRE: ALL UNDERGROUND PLASTIC PIPE SHALL BE INSTALLED WITH BARE COPPER WIRE, TYPE TW, SIZE AWG #12 PLACED AND SECURED ON TO THE TOP OF THE MAINS AND BRANCHES WITH ALL WIRE TO WIRE CONNECTIONS SOLDERED FOR CONTINUITY.	
19.	QUALITY ASSURANCE: THE PIPING SYSTEMS SHALL BE CONSTRUCTED FROM MATERIALS EXTRUDED AND MOLDED USING THE SAME COMPOUND MANUFACTURER.	
20.	QUALITY ASSURANCE: BOTH THE PIPE AND FITTINGS SHALL BE MANUFACTURED IN NORTH AMERICA AND MEET OR EXCEED THE REQUIREMENTS SET FORTH BY THE AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM) AND ANSI/NSF STANDARDS 14 AND 61.	

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STATE OF CALIFORNIA

PROJECT TITLE

HRC TEMP RELOCATABLE CLASSROOM & RESTROOM

Cypress College

CYPRESS COMMUNITY COLLEGE

ISSUED

#	DATE	DESCRIPTION
	04/06/2023	DSA BACKCHECK SUBMITTAL

PROJECT IDENTIFICATION

THE DRAWINGS IN THE SHEET INDEX WERE ORIGINALLY CREATED IN AUTODESK REVIT V. 2018 UNLESS OTHERWISE NOTED.

THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42".

SHEET TITLE

SCHEDULES

SHEET NUMBER

P0.2

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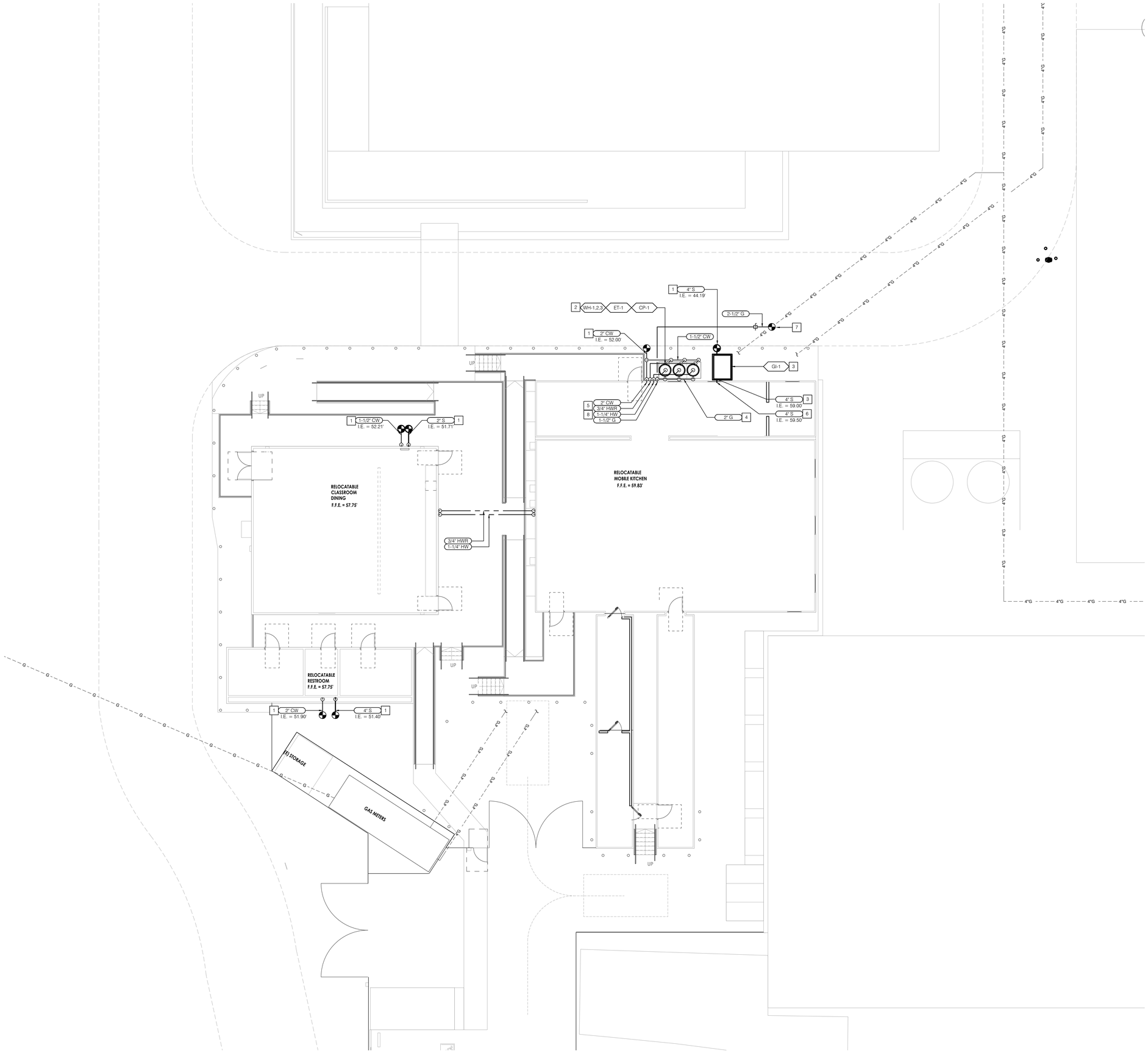

NOTES

1. POINT OF CONNECTION TO SITE UTILITY. REFER TO CIVIL SHEET C5.0 FOR CONTINUATION.
2. PROVIDE GAS-FIRED WATER HEATERS (WH-1,2,3) ASSEMBLY INCLUDING EXPANSION TANKS (ET-1) AND HOT WATER CIRCULATING PUMP (CP-1). REFER TO DETAIL 1/P6.1 FOR INSTALLATION.
3. GREASE INTERCEPTOR. REFER TO DETAIL 3/P6.1 FOR INSTALLATION.
4. 2" GAS (LOW PRESSURE) DOWN TO WATER HEATERS (WH-1,2,3). PROVIDE GAS COCK, UNION AND FLEX CONNECTION AT POINT OF SERVICE (299 CFH EACH).
5. PROVIDE AND CONNECT 2" CW, 1-1/4" HW, 3/4" HWR AND 1-1/2" G TO PRE-PLUMBED KITCHEN MODULAR UTILITIES.
6. PROVIDE 4" SANITARY GREASE WASTE CONNECTION TO GREASE INTERCEPTOR (GI-1) INLET.
7. PROVIDE 2-1/2" GAS CONNECTION TO (E) 4" GAS BELOW GRADE.
8. HOT WATER SHALL DISTRIBUTE AT 120°F FROM (TMV-1) LOCATED ADJACENT TO WATER HEATERS. REFER TO DETAIL 1/P6.1 FOR INSTALLATION.
9. PROVIDE NEW DRINKING FOUNTAIN (DF-1) WITH 1/2" CW AND 2" WASTE CONNECTIONS TO MODULAR BUILDING PLUMBING SYSTEMS.

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

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SITE PLAN

SHEET NUMBER

P1.0

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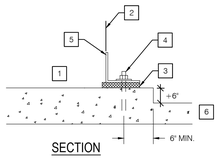


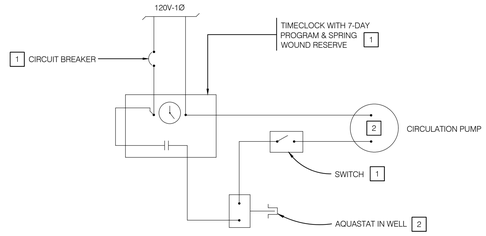
SECTION

NOTES

1. GREASE INTERCEPTOR. SEE DETAIL 3 ON THIS SHEET.
2. FACE OF EQUIPMENT.
3. NEOPRENE VIBRATION ISOLATORS.
4. PROVIDE 3/8" DIA. HILTI KB-TZ2 EXPANSION ANCHOR (STAINLESS STEEL, ICC ESR-4266) WITH 1-1/2" EMBEDMENT.
5. 3/16" FILLET WELD TOP AND SIDES IN LIEU OF WELD 4-#12 S.M.S. MAY BE USED.
6. 6" CONCRETE EQUIPMENT PAD.

6 GREASE INTERCEPTOR (GI-1) ANCHORAGE

NO SCALE

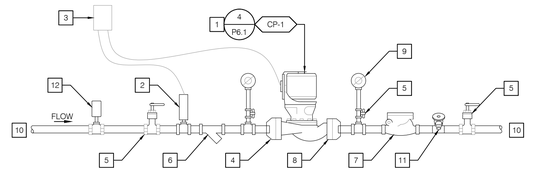


NOTES

1. ITEM INDICATED ON THE ELECTRICAL DRAWING AND SPECIFIED IN THE ELECTRICAL SECTIONS OF THE SPECIFICATION.
2. ITEM INDICATED ON THE PLUMBING DRAWING AND SPECIFIED IN THE PLUMBING SECTIONS OF THE SPECIFICATION.

4 CIRCULATING PUMP (CP-1) WIRING DIAGRAM

NO SCALE

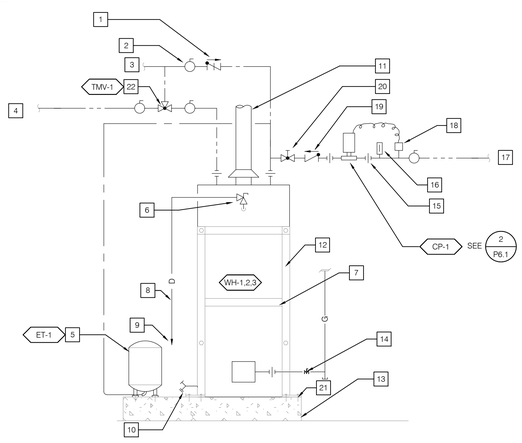


NOTES

1. IN-LINE CIRCULATING PUMP (SEE PUMP SCHEDULE)
2. AQUASTAT.
3. ELECTRICAL BOX.
4. REDUCING TEE (OR TEST PLUG FOR INSERTION OF GAUGE)
5. BALL VALVE.
6. STRAINER.
7. CHECK VALVE.
8. UNION.
9. DIAL TYPE PRESSURE GAUGE (0-100 PSIG).
10. FOR CONTINUATION AND SIZE, SEE FLOOR PLAN.
11. HOSE BIBB FOR DRAINAGE.
12. WATTS AIR RELEASE VALVE, MAXIMUM 4' FROM PUMP.

2 CIRCULATING PUMP (CP-1)

NO SCALE

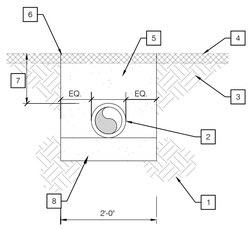


NOTES

1. NON SLAM CHECK VALVE.
2. BALL VALVE (TYP.)
3. C.W.
4. H.W.
5. THERMAL EXPANSION TANK "AMTROL" THERM-X-TROL ST-20VC-DD.
6. A.S.M.E. RATED TEMPERATURE AND PRESSURE RELIEF VALVE.
7. EQUIV. TO 'HOLDRITE #QS-120' QUICK STRAP BELT STRAP FOR SEISMIC BRACING.
8. 3/4" DRAIN.
9. SPILL TO GRADE.
10. DRAIN VALVE.
11. TERMINATE FLU ABOVE ROOF.
12. UNISTRUT P1000.
13. 6" CONCRETE PAD (3000 PSI CONC) W/ #4 @ 16" O.C. EACH WAY
14. GAS COCK.
15. DIELECTRIC UNION (TYP.)
16. THERMOMETER.
17. H.W.R.
18. AQUASTAT.
19. CHECK VALVE.
20. GLOBE VALVE (BALANCING).
21. EMBED 3/8" CONCRETE ANCHOR THROUGH LEG KIT.(TYP. 4)
22. THERMOSTATIC MIXING VALVE (TMV-1). SEE SCHEDULE ON SHEET P0.2.

1 TYPICAL GAS WATER HEATER INSTALLATION (WH-1,2,3)

NO SCALE

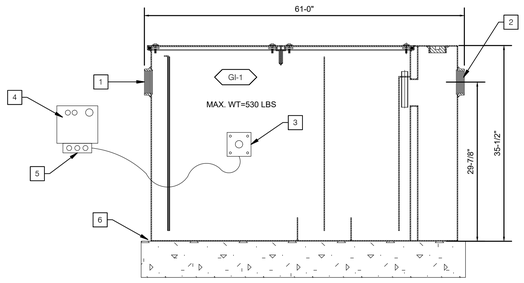


NOTES

1. UNDISTURBED SOIL OR COMPACTED FILL.
2. 6" UNDERGROUND PVC PIPING.
3. UNDISTURBED SOIL.
4. (E) AC PAVING.
5. 1/2 SACK SLURRY TO ALLOW FOR 6" OF AC PAVING.
6. SAWCUT (E) AC PAVING.
7. 30" MIN. COVER.
8. MIN . 6" SAND BEDDING.

5 BURIED PIPE

NO SCALE



NOTES

1. 4" WASTE INLET.
2. 4" WASTE OUTLET.
3. SENSOR BOX.
4. DISPLAY BOX.
5. JUNCTION BOX. (PROVIDE 120V WITH GFCI)
6. ANCHOR TO PAD PER DETAIL 6 ON THIS SHEET.

3 ABOVE GRADE GREASE INTERCEPTOR (GI-1)

NO SCALE

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SHEET TITLE

DETAILS

SHEET NUMBER

P6.1

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LEGEND

SYMBOL	DESCRIPTION
	NOTE CALLOUT
	DETAIL CALLOUT - NUMBER ON TOP DENOTES DETAIL NUMBER - NUMBER ON BOTTOM DENOTES SHEET DETAIL IS SHOWN
	MECHANICAL EQUIPMENT CALLOUT, SEE MECHANICAL PLANS FOR EXACT LOCATION AND REQUIREMENTS
	SECTION CALLOUT
	FEEDER CALLOUT
	EXISTING FEEDER CALLOUT
	NEW LINEWORK
	EXISTING LINEWORK
	DEMOLISHED LINEWORK
	CONDUIT CONCEALED IN WALL OR ABOVE CEILING
	CONDUIT EXPOSED
	CONDUIT CONCEALED UNDERGROUND OR BELOW FLOOR
	CONDUIT EMERGENCY
W W	MULTI-CHANNEL RACEWAY
	CONDUIT TURNED UP
	CONDUIT CAPPED
A-1	BRANCH CIRCUIT HOMERUN TO PANELBOARD AND CIRCUITS AS INDICATED
	3/4" CONDUIT, TICK MARKS INDICATE QUANTITY OF #12 AWG WIRES (UNLESS NOTED OTHERWISE, NO MARKS INDICATES 2#12 & 1#12 GND WIRES) - SMALL MARK DENOTES HOT WIRE - LARGE MARK DENOTES NEUTRAL WIRE - DIAGONAL DENOTES GROUND WIRE
G	GENERATOR
	SWITCH
	CIRCUIT BREAKER
	2-WAY SWITCH, TRANSFER SWITCH
	FUSE
	TRANSFORMER
	GROUND CONNECTION
	MOTOR - SINGLE PHASE FRACTIONAL OR INTEGRAL HORSEPOWER
M	METER
ECM	ELECTRONIC CIRCUIT MONITOR
	480V DRAWOUT BREAKER
VFD	VARIABLE FREQUENCY DRIVE
	PANEL
	FUSED DISCONNECT SWITCH
	NON-FUSED DISCONNECT SWITCH
	COMBINATION STARTER/DISCONNECT SWITCH
M	SWITCH MOTOR RATED
	SPLICE
	TERMINATION
	EXISTING TERMINATION
MC	MEDIUM VOLTAGE - AIR CIRCUIT BREAKER DRAWOUT BREAKER
	MEDIUM VOLTAGE FUSED DISCONNECT SWITCH
	MEDIUM VOLTAGE MODULAR SPLICE
	MEDIUM VOLTAGE EXISTING MODULAR SPLICE
X y	2X4 LIGHT FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
	2X4 EMERGENCY LIGHT FIXTURE FED FROM GENERATOR/ INVERTER/ BATTERY BACKUP
X y	2X2 LIGHT FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
	2X2 EMERGENCY LIGHT FIXTURE FED FROM GENERATOR/ INVERTER/ BATTERY BACKUP
X y	LINEAR LIGHT FIXTURE, DIMENSIONS PER PLANS - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
	EMERGENCY LINEAR LIGHT FIXTURE, DIMENSIONS PER PLANS - LIGHT FIXTURE FED FROM GENERATOR/ INVERTER/ BATTERY BACKUP
X y	LINEAR PENDANT LIGHT FIXTURE, DIMENSIONS PER PLANS - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
X y	TRACK LIGHTING - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
X y	UNDERCABINET / COVE FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.

SYMBOL	DESCRIPTION
X y	LED STRIP LIGHT FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.

SYMBOL	DESCRIPTION
X y	DOWNLIGHT FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
X y	EMERGENCY DOWNLIGHT FIXTURE FED FROM GENERATOR/ INVERTER/ BATTERY BACKUP
X y	PENDANT LUMINAIRE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
X y	WALLWASH LIGHT FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
X y	WALL MOUNTED LIGHT FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
	EMERGENCY WALL MOUNTED LIGHT FIXTURE FED FROM GENERATOR/ INVERTER/ BATTERY BACKUP
	BOLLARD LUMINAIRE
	POST TOP LUMINAIRE
	POLE MOUNTED LUMINAIRE, SINGLE HEAD
	POLE MOUNTED LUMINAIRE, DOUBLE HEAD
	POLE MOUNTED LUMINAIRE, TRIPLE HEAD
	POLE MOUNTED LUMINAIRE, QUAD HEAD
	IN GRADE LUMINAIRE
	PATHWAY LUMINAIRE
	LANDSCAPE FIXTURE
	EXIT LIGHT FIXTURE WITH DIRECTIONAL ARROWS AS INDICATED. SHADED SIDE DENOTES NUMBER OF FACES
	JUNCTION BOX
PC	PHOTOCELL FOR EXTERIOR APPLICATIONS
DS	DAYLIGHT SENSOR - CEILING MOUNTED
R	RELAY
ER	EMERGENCY RELAY UL 924 COMPLIANT
MS	MOTION SENSOR - CEILING MOUNTED
MS	MOTION SENSOR - CORNER OR WALL MOUNTED
MS	MOTION SENSOR WITH AISLE/CORRIDOR LENS - CEILING MOUNTED
MS	COMBINATION MOTION AND DAYLIGHT SENSOR
LN	LIGHTING CONTROL NETWORK DEVICE
TM	DIGITAL TIMER SWITCH
MS	MOTION SENSOR SWITCH
LV	LOW VOLTAGE SWITCH
DI	DIMMER MASTER SWITCH
DI	DIGITAL DIMMING SWITCH
GT	GRAPHICAL TOUCH SCREEN - LIGHTING CONTROL STATION
T	THERMOSTAT WITH A 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE
	MODULAR FURNITURE - BASE POWER WHIP FEED CONNECTION
	MODULAR FURNITURE - FLOOR BOX FEED CONNECTION
	MODULAR FURNITURE - POWER POLE FEED CONNECTION
	LIGHTING CONTROL PANEL - SURFACE MOUNTED
	PANELBOARD - RECESSED MOUNTED
	PANELBOARD - SURFACE MOUNTED
	DISTRIBUTION PANEL/ BOARD
	SINGLE POLE SWITCH, DEVICE SHALL BE MOUNTED +48" MAX AND +36" MIN FROM THE CENTER OF DEVICE:
3	SWITCH 3-WAY (48" AFF MAXIMUM)
T	TIMER SWITCH (48" AFF MAXIMUM)
ab	DUAL SWITCH (48" AFF MAXIMUM)
	PUSHBUTTON SWITCH

RECESSED ON WALL	G=GFI, WP=WEATHERPROOF
SURFACE	G=GFI, WP=WEATHERPROOF
FLOOR OR CEILING	C=CEILING
	20A, 125V DUPLEX RECEPTACLE MOUNTED +15" AFF, UNLESS OTHERWISE NOTED
	20A, 125V QUAD RECEPTACLE MOUNTED +15" AFF, UNLESS OTHERWISE NOTED
	20A, 125V DUPLEX RECEPTACLE RECEPTACLE ON DEDICATED CIRCUIT
	20A, 125V CONTROLLED DUPLEX RECEPTACLE
	20A, 125V QUAD RECEPTACLE (HALF) CONTROLLED RECEPTACLE
	SPECIAL RECEPTACLE REFER TO DRAWINGS FOR NEMA CONFIGURATION
	JUNCTION BOX
	RECESSED POKE-THROUGH RECESSED POKE-THROUGH - POWER/TEL/DATA RECESSED FLOOR BOX - POWER/TEL/DATA
	20A, 125V DUPLEX RECEPTACLE FIRE RATED TYPE
	20A, 125V QUAD RECEPTACLE FIRE RATED TYPE

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
1/C	SINGLE CONDUCTOR
&	AND
@	AT
A OR AMP	AMPERES
ABV	ABOVE
A.C.	ASPHALT CONCRETE
AF	AMPERE FUSE RATING
AFC	AVAILABLE FAULT CURRENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
APPROX.	APPROXIMATE
ARCH.	ARCHITECT, ARCHITECTURAL
AS	AMPERE SWITCH RATING
ASCC	AVAILABLE SHORT CIRCUIT CURRENT
ATC	AIR TERMINAL CHAMBER
ATO	AUTOMATIC THROW-OVER (SWITCH)
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BAT	BATTERY
BEL.	BELOW
BKBD	BACKBOARD
BKR	BREAKER
BLDG	BUILDING
B.S.	BARE STRANDED
C	CONDUIT
CB	CIRCUIT BREAKER
CC	CONSTANT CURRENT
CEC	CALIFORNIA ELECTRICAL CODE
CF	CUBIC FEET
CKT	CIRCUIT
CL	CENTER LINE
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
C.O.	CONDUIT ONLY WITH PULL WIRE
COL	COLUMN
CP	COMMUNICATION PROCESSOR
CPT	CONTROL POWER TRANSFORMER
CR	CONTROL RELAY
CSFD	COMBINATION SMOKE FIRE DAMPER
CT	CURRENT TRANSFORMER
CW	COLD WATER
CU	COPPER
DIAG	DIAGRAM
DIST.	DISTANCE
DL	DAMP LOCATION LISTING
DM	DIGITAL METER
DMM	DIGITAL METER MODULE
DP	DISTRIBUTION PANEL
DIST.	DISTANCE
DWG	DRAWING
DWP	DEPARTMENT OF WATER & POWER
EA	EACH
ECM	ELECTRONIC CIRCUIT MONITOR
ELEC.	ELECTRICAL
EM	EMERGENCY
EMH	ELECTRICAL MANHOLE
EMT	ELECTRICAL METALLIC TUBING
EPO	EMERGENCY POWER OFF
EPR	ETHYLENE PROPYLENE RUBBER
EQUIP	EQUIPMENT
ER	EXISTING TO BE REMOVED
ERR	EXISTING TO BE RELOCATED AND - RECONNECTED
EXIST/(E)	EXISTING
EXP	EXPLOSION PROOF
FA	FIRE ALARM
FFE	FINISHED FLOOR ELEVATION
FIN.	FINISH
FIP.	FIELD INTERFACE PANEL
FIXT	FIXTURE
FLA	FULL LOAD AMPS
FLR	FLOOR
FLUOR	FLUORESCENT
FT	FEET
FACP	FIRE ALARM CONTROL PANEL
FATC	FIRE ALARM TERMINAL CABINET
FMC	FLEXIBLE METAL CONDUIT
FO	FIBER OBTIC
FTG	FOOTING
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPTER
GFR	GROUND FAULT RELAY
GG	GREEN GROUND
GND	GROUND
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HT	HEIGHT
HTR	HEATER
HZ	HERTZ
ICON	INTEGRATED COMMUNICATIONS OPTICAL - NETWORK
IE	INVERT ELEVATION
IED	INTELLIGENT ELECTRONIC DEVICES
IMC	INTERMEDIATE METAL CONDUIT
ISC	SHORT CIRCUIT CURRENT
INCAND	INCANDESCENT
J, JB, J-BOX	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KV	KILOVOLT
KVA	KILOVOLT-AMPERES
KW	KILOWATT
LF	LINEAR FEET
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
LGST	LARGEST
LIS	LOAD INTERRUPTER SWITCH
LOC.	LOCATION
LOTO	LOCK-OUT & TAG-OUT
LSI	LONG TERM, SHORT TERM, INSTANTANEOUS
LSIG	LONG TERM, SHORT TERM, INSTANTANEOUS GROUNDING
LTG	LIGHTING
LV	LOW VOLTAGE
M	METER
MAX.	MAXIMUM
MCA	MAXIMUM CIRCUIT AMPACITY
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MFGR, MFR	MANUFACTURER
MH	MANHOLE
MI.	MECHANICAL INTERLOCK
MRCT	MULTI-RATIO CURRENT TRANSFORMER
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
MTD	MOUNTED
MTG	MOUNTING
MTR	MOTOR
MTTB	MAIN TELEPHONE TERMINAL BOARD
MV	MEDIUM VOLTAGE
N	NORTH
NAC	NOTIFICATION APPLIANCE CIRCUIT
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NF	NON-FUSED
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT- 24HRS ON
NO	NUMBER
OC	ON CENTER
OCPD	OVERCURRENT PROTECTIVE DEVICE
OD	OUTSIDE DIAMETER
OE	OVERHEAD ELECTRICAL
OFC	OIL FUSED CUTOUT
OH	OVERHEAD
OL	OIL LEVER SWITCH
P	POLE
PAC	PROGRAMMABLE AUTOMATION CONTROLLER
PB	PULL BOX
PC	PHOTOCELL
PCB	POLYCHLORINATED BIPHENYL
PDS	PRESSURE DIFFERENTIAL SWITCH
PF	POWER FACTOR
PH OR Ø	PHASE
PILC	PAPER INSULATED, LEAD COVER
PIV	POST INDICATING VALVE
PL	PLATE
PLC	PROGRAMMABLE LOGIC CONTROLLER
PNL	PANEL
POC	POINT OF CONNECTION
PREF.	PREFERRED
PRI.	PRIMARY
PVC	POLY-VINYL CHLORIDE
PWR	POWER
REC/RECEPT	RECEPTACLE
REQ'D	REQUIRED
RGS	RIGID GALVANIZED STEEL
RMC	RIGID METAL CONDUIT
RPBP	REDUCED PRESSURE BACK FLOW PREVENTER
RM	ROOM
RTAC	REAL TIME AUTOMATION CONTROLLER
SCCR	SHORT CIRCUIT CURRENT RATING
SCE	SOUTHERN CALIFORNIA EDISON
SF	SQUARE FEET
SHT	SHEET
SIG.	SIGNAL
SP	SPARE
SPECS	SPECIFICATIONS
ST	STREET
STD	STANDARD
STP	SHIELDED TWISTED PAIR
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
SWST	SWITCHING STATION
TB	TERMINAL BLOCK
TEL./TELE	TELEPHONE
TMH	TELEPHONE MANHOLE
T.O.D.	TOP OF DUCTBANK
T.O.M.	TOP OF MANHOLE
TPS	TWISTED SHIELDED PAIR
TRANSF.XFMR	TRANSFORMER
TS	TAMPER SWITCH
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
V	VOLTS
VA	VOLT-AMPERES
VB	VIBRATION SWITCH
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS
W/	WITH
W/O	WITHOUT
WCR	WITHSTAND CLOSE-ON RATING
WP	WEATHERPROOF
Z	IMPEDANCE

IN THE EVENT ABBREVIATIONS NOT MENTIONED HEREIN ARE USED, REFERENCE WILL BE MADE TO ANSI Y1.1, MILITARY STANDARD ABBREVIATIONS, AND OTHER STANDARD INDUSTRY CONVENTIONS.

GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE CALIFORNIA ELECTRICAL CODE AND ALL OTHER APPLICABLE FEDERAL AND STATE. WHERE THE CONSTRUCTION DOCUMENTS INDICATE MORE RESTRICTIVE REQUIREMENTS, THE CONSTRUCTION DOCUMENTS SHALL GOVERN BUT THE CONSTRUCTION DOCUMENTS SHALL NOT BE INTERPRETED AS AUTHORITY TO VIOLATE ANY CODE OR REGULATION.
2. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BEAR THE UNDERWRITERS' LABEL (UL) AND SHALL BE INSTALLED IN THE MANNER FOR WHICH THEY ARE DESIGNED AND APPROVED.
3. THE CONTRACTOR SHALL NOT BORE, NOTCH OR IN ANY WAY CUT INTO ANY STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT OR STRUCTURAL ENGINEER.
4. MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT ANCHORAGE NOTES:

   ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCES AND DISPLACEMENT REQUIREMENTS.

   A. ALL PERMANENT EQUIPMENT AND COMPONENTS.

   B. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.

   C. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

   THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENT SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

   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 SUPPORTS 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.

   FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.
5. PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTES:

   PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN LATEST SECTIONS OF CBC AND ASCE.

   THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPM #) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.

   COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.

   THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

DSA NOTES

1. COMPLY WITH TITLE 24, CCR, PARTS 1-6 AND 9.
2. TITLE 24, CCR, PARTS 1-5 MUST BE KEPT ON SITE DURING CONSTRUCTION.
3. ALL ADDENDA MUST BE SIGNED BY ARCHITECT AND APPROVED BY DSA. (SECTION 4-338(c), PART 1).
4. ALL SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS SHALL BE CONSIDERED AS A CHANGE ORDER OF ADDENDA, AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION. (IR A-6)(SECTION 4-338(c), PART 1) SUBSTITUTION SHALL BE FOR ANY MATERIAL, SYSTEM OR PRODUCT THAT WOULD OTHERWISE BE REGULATED BY DSA.
5. ALL CHANGE ORDERS AND FIELD CHANGE DOCUMENTS (PRELIMINARY CHANGE ORDERS)(SECTION 4-338(c)(d), PART 1) MUST BE SIGNED BY ALL THE FOLLOWING:

   A. A/E OF RECORD.

   B. OWNER (CHANGE ORDERS ONLY).

   C. STRUCTURAL ENGINEER (WHEN APPLICABLE).

   D. DELEGATED PROFESSIONAL ENGINEER (WHEN APPLICABLE).

   AND SHALL BE SUBMITTED TO AND APPROVED BY DSA.
6. A PROJECT INSPECTOR AND TESTING LAB SHALL BE PROVIDED AND APPROVED BY ALL OF THE FOLLOWING:

   A. A/E OF RECORD.

   B. STRUCTURAL ENGINEER.

   C. DSA.
7. ANY ALTERATIONS, REHABILITATION, OR RECONSTRUCTION AS STATED IN TITLE 24, PART 1 SECTION 4-317(c) OR SIMILAR MEANING: 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 NONCOMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE DSA APPROVED DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODES OF REGULATIONS, A CHANGE ORDER, 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.
8. MEP COMPONENT ANCHORAGE NOTE:

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

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

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

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

   B. COMPONENTS 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 ELECTRICAL 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.
9. ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:

   ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

   THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

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

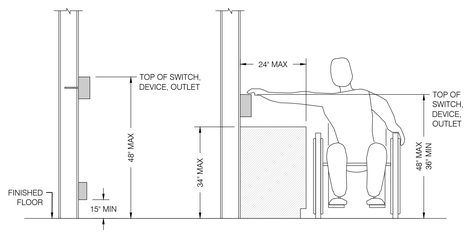
   MP ☐ MD ☐ PP☐ E ☒ - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

   MP ☐ MD ☐ PP☐ E ☐ - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #0295-13

MOUNTING HEIGHT OVER OBSTRUCTION

NOTES

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



SHEET INDEX

DSA STAMP

HPI architecture
www.hpiarchitecture.com
115 22nd street
Newport Beach, CA 92663
o: 949.675.6442

SEAL

LICENSED ARCHITECT
AMMAR NAJI SARSAM
C-30902
12/31/2023
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANTS

P2S ENG
5000 East Spring Street, Suite 800
Long Beach, CA 90815
T: 562.497.2999
F: 562.497.2990
p2sinc.com
Contact: ALEX SASSOON
P2S #: 22-0403

REGISTERED PROFESSIONAL ENGINEER ALEXANDER MY SASSOON No. E23000 ELECTRICAL STATE OF CALIFORNIA

PROJECT TITLE

HRC TEMP RELOCATABLE CLASSROOM & RESTROOM

Cypress College
CYPRESS COMMUNITY COLLEGE

ISSUED

#	DATE	DESCRIPTION
	04/06/2023	DSA BACKCHECK SUBMITTAL

PROJECT IDENTIFICATION

THE DRAWINGS IN THE SHEET INDEX WERE ORIGINALLY CREATED IN AUTODESK REVIT V. 2018 UNLESS OTHERWISE NOTED.

THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42".

SHEET TITLE

GENERAL NOTES, LEGEND, ABBREVIATIONS AND SHEET INDEX

SHEET NUMBER

E0.1

DSA SUBMITTAL
NOT FOR CONSTRUCTION

LIGHT FIXTURE SCHEDULE

TYPE	FIXTURE DESCRIPTION	MANUFACTURER & MODEL	TOTAL V-A	LAMP TYPE	LUMENS	COLOR TEMP	CRI	VOLTAGE	MTG	CEILING TYPE	REMARKS
F2	WALL LUMINAIRE	LITHONIA LIGHTING #TWP-ALO-30K-T3M-120-PE-SF-DBLXD	28	LED	629	3500K	80+	120	SW	-	PROVIDE WITH INTEGRAL PHOTOCELL.
F2E	WALL LUMINAIRE WITH BATTERY BACKUP	LITHONIA LIGHTING #TWP-ALO-30K-T3M-120-PE-SF-DBLXD	28	LED	629	3500K	80+	120	SW	-	PROVIDE INTEGRAL PHOTOCELL.

NOTES:

1. PROVIDE ALL FIXTURES WITH MINIMUM 10-100% CONTINUOUS DIMMING VIA 0-10V DC CONTROLLABLE DRIVER.
2. ALL FIXTURES AND DRIVERS SHALL BE UL LISTED.
3. UNLESS NOTED OTHERWISE, CEILING TYPE AND MOUNTING HEIGHTS SHALL BE VERIFIED WITH ARCHITECTURAL DRAWINGS.
4. ALL FIXTURES SHALL BE PROVIDED WITH MOUNTING ACCESSORIES.

MOUNTING ABBREVIATIONS:
R = RECESSED
S = SURFACE
SW = SURFACE WALL
P = POLE

2 FIXTURE SCHEDULE
NO SCALE

DISTRIBUTION PANEL: DB-HRC

LOCATION : SW OF COOLING TOWER
FLOOR : 1ST
ENCLOSURE : NEMA 3R
MOUNTING : FREES-STANDING

VOLTAGE/ PHASE : 120/208V, 3Ø, 4W
BUS AMPS : 400A
BUS TYPE : COPPER
MAIN BREAKER : MAIN LUGS ONLY

FED FROM : (E) XFMR TO MCC-2
MINIMUM BUS BRACING : 42kAIC
MANUF : SQUARE D I-LINE
TYPE : [HCN] [HCM] [HCP]

LOADS	SEE NOTE	*	LOAD TYPE PNL	MTR	MISC	VOLT-AMPS A	B	C	CKT	BKR/ POLE	A B C	BKR/ POLE	CKT	VOLT-AMPS A	B	C	LOAD TYPE PNL	MTR	MISC	*	SEE NOTE	LOADS
LP-HRC			1			1216			1	100/3	*-- -*- --*	200/3	2	1386			1					K1
							540								1386							
								2160								1386						
A			1			6000			3	150/3	*-- -*- --*	200/3	4	1386			1					K2
							6000								1386							
								6000								1386						
RR			1			8800			5	150/3	*-- -*- --*	200/3	6	1386			1					K3
							8800								1386							
								8800								1386						
(--space--)									7		*-- -*- --*	200/3	8	1386								K4
															1386							
(--space--)									9		*-- -*- --*		10									(--space--)
(--space--)									11		*-- -*- --*		12									(--space--)
(--space--)									13		*-- -*- --*		14									(--space--)
(--space--)									15		*-- -*- --*		16									(--space--)

TOTAL ØA = 21,560 VOLT-AMPS
TOTAL ØB = 20,884 VOLT-AMPS
TOTAL ØC = 22,504 VOLT-AMPS
*LCL = 0 VOLT-AMPS

TOTAL PANEL = 64,948 VA @ 208V, 3Ø = **180.4 AMPS**

NOTES:
1. x

PANEL: LP-HRC

LOCATION : SOUTH EXTERIOR OF KITCHEN
FLOOR : 1ST
ENCLOSURE : NEMA 3R
MOUNTING : SURFACE

VOLTAGE/ PHASE : 120/208V, 3Ø, 4W
BUS AMPS : 125A
BUS TYPE : COPPER
MAIN BREAKER : MAIN LUGS ONLY

FED FROM : DB-HRC
MINIMUM BUS BRACING : 10kAIC
MANUF : SQUARE D
TYPE : NQ

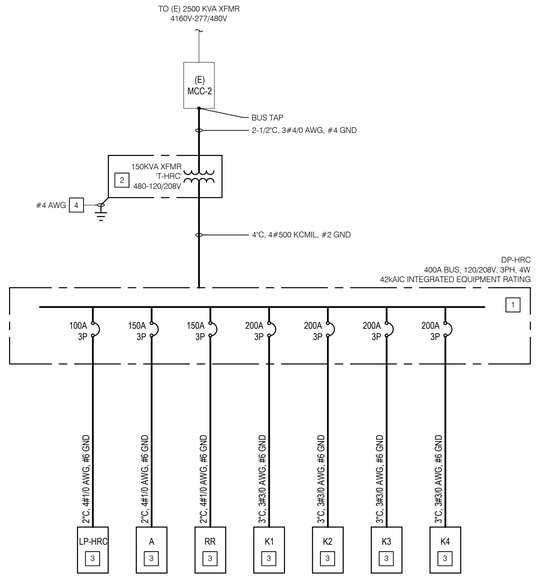
LOADS	SEE NOTE	*	OUTLETS LTG	REC	MISC	VOLT-AMPS A	B	C	CKT	BKR/ POLE	A B C	BKR/ POLE	CKT	VOLT-AMPS A	B	C	OUTLETS LTG	REC	MISC	*	SEE NOTE	LOADS
METER/ STORAGE OLTG			17			476			1	20/1	*-- -*- --*	20/1	2	360			2					CHARGING RECEP
GREASE INTERCEPTOR				1			180		3	20/1	*-- -*- --*	20/1	4		360		2					CHARGING RECEP
WH-1,2,3					3			1800	5	20/1	*-- -*- --*	20/1	6			360	2					CHARGING RECEP
CP-1					1	200			7	20/1	*-- -*- --*	20/1	8	180			1					CHARGING RECEP
SPARE									9	20/1	*-- -*- --*	20/1	10									SPARE
SPARE									11	20/1	*-- -*- --*	20/1	12									SPARE
SPARE									13	20/1	*-- -*- --*	20/1	14									SPARE
SPARE									15	20/1	*-- -*- --*	20/1	16									SPARE
SPARE									17	20/1	*-- -*- --*	20/1	18									SPARE
SPARE									19	20/1	*-- -*- --*	20/1	20									SPARE
SPARE									21	20/1	*-- -*- --*	20/1	22									SPARE
SPARE									23	20/1	*-- -*- --*	20/1	24									SPARE
(--space--)									25		*-- -*- --*		26									(--space--)
(--space--)									27		*-- -*- --*		28									(--space--)
(--space--)									29		*-- -*- --*		30									(--space--)

TOTAL ØA = 1,216 VOLT-AMPS
TOTAL ØB = 540 VOLT-AMPS
TOTAL ØC = 2,160 VOLT-AMPS
LCL = 0 VOLT-AMPS

TOTAL PANEL = 3,916 VA @ 208V, 3Ø = **10.9 AMPS**

NOTES:
1. x

3 PANEL SCHEDULES
NO SCALE



NOTES

1. PROVIDE A 400A, 120/208V, 3PH, 4W DISTRIBUTION BOARD IN A NEMA 3R ENCLOSURE, SQUARE D QED-2 OR EQUAL.
2. PROVIDE A 150KVA, 480-120/208V, 3PH, 4W TRANSFORMER IN A NEMA 3R ENCLOSURE, SQUARE D OR EQUAL.
3. PROVIDE A 125A, 120/208V, 3PH, 4W PANELBOARD IN A NEMA 3R ENCLOSURE, SQUARE-D NQ OR EQUAL.
4. PROVIDE (2) 3/4"X10FT COPPER-CLAD STEEL GROUNDING ROD WITH BARE COPPER GROUNDING ELECTRODE CONDUCTOR (GEC). SIZE AS MARKED.

1 PARTIAL SINGLE LINE DIAGRAM
NO SCALE

DSA STAMP

architecture
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115 22nd street
Newport Beach, CA 92663
o: 949.675.6442

SEAL

LICENSED ARCHITECT
AMMAR NAJI SARSAM
C-30902
12/31/2023
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANTS

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Contact: ALEX SASSOON
P2S #: 22-0403

REGISTERED PROFESSIONAL ENGINEER
ELECTRICAL
STATE OF CALIFORNIA

PROJECT TITLE

HRC TEMP RELOCATABLE CLASSROOM & RESTROOM

Cypress College
CYPRESS COMMUNITY COLLEGE

ISSUED		
#	DATE	DESCRIPTION
	04/06/2023	DSA BACKCHECK SUBMITTAL

PROJECT IDENTIFICATION

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THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42".

SHEET TITLE

PARTIAL SINGLE LINE DIAGRAM & SCHEDULES

SHEET NUMBER

E0.2

DSA SUBMITTAL
NOT FOR CONSTRUCTION

SPECIFICATIONS

PART 1 - GENERAL

1.1 SUMMARY

A. SECTION INCLUDES:

1. LOW VOLTAGE POWER CONDUCTORS AND CABLES.
2. LOW VOLTAGE TRANSFORMERS.
3. SWITCHBOARDS.
4. PANELBOARDS.
5. WIRING DEVICES.

PART 2 - PRODUCTS

2.1 LOW VOLTAGE POWER CONDUCTORS AND CABLES

A. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING MANUFACTURERS:

1. GENERAL CABLE TECHNOLOGIES CORPORATION.
2. SOUTHWIRE INCORPORATED
3. ENCORE WIRE CORPORATION

B. CONDUCTOR MATERIAL: ELECTRICAL GRADE, SOFT DRAWN ANNEALED COPPER, 98 PERCENT CONDUCTIVITY, AND FABRICATED IN ACCORDANCE WITH ASTM AND ICEA STANDARDS. MINIMUM SIZE IS NUMBER 12 FOR BRANCH CIRCUITS, NUMBER 14 STRANDED FOR CONTROL WIRING. COPPER CONDUCTORS: COMPLY WITH NEMA WC 70/ICEA S-95-658.

C. CONDUCTOR INSULATION: COMPLY WITH NEMA WC 70/ICEA S-95-658 FOR TYPE THHN-2-THWN-2.

D. MULTICONDUCTOR CABLE: COMPLY WITH NEMA WC 70/ICEA S-95-658 FOR METAL-CLAD CABLE, TYPE MC WITH GROUND WIRE.

E. PROVIDE SEPARATE NEUTRAL WITH EACH BRANCH CIRCUIT SERVING OUTLETS. USE COLOR SPIRAL TO MATCH ASSOCIATED PHASE.

2.2 LOW VOLTAGE TRANSFORMERS

A. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:

1. SQUARE D; SCHNEIDER ELECTRIC.
2. EATON ELECTRICAL INC.; CUTLER-HAMMER PRODUCTS.
3. GE INDUSTRIAL; A DIVISION OF ABB.
4. POWERSMITHS; SOCOMEC GROUP.

B. GENERAL TRANSFORMER REQUIREMENTS

1. DESCRIPTION: FACTORY-ASSEMBLED AND -TESTED, AIR-COOLED UNITS FOR 60-HZ SERVICE.
2. COMPLY WITH NEMA ST 20, AND LIST AND LABEL AS COMPLYING WITH UL 1561.
3. CORES: HIGH GRADE, NON-AGING. GRAIN-ORIENTED, NON-AGING SILICON STEEL. L WITH HIGH MAGNETIC PERMEABILITY, AND LOW HYSTERESIS AND EDDY CURRENT LOSSES. THE CORE OF THE TRANSFORMER SHALL BE VISIBLY GROUNDED TO THE ENCLOSURE BY MEANS OF FLEXIBLE GROUNDING CONDUCTOR SIZED IN ACCORDANCE WITH APPLICABLE UL AND NEC STANDARD.
4. COILS: CONTINUOUS WINDINGS WITHOUT SPLICES EXCEPT FOR TAPS.
5. INTERNAL COIL CONNECTIONS: BRAZED OR PRESSURE TYPE.
6. COIL MATERIAL: COPPER. BASIC INSULATION LEVEL (BIL) FOR ALL 600V CLASS WINDINGS SHALL BE 10KV.
7. ENCLOSURE: VENTILATED, NEMA 3R, TYPE 2. CORE AND COIL SHALL BE ENCAPSULATED WITHIN RESIN COMPOUND, SEALING OUT MOISTURE AND AIR. ENCLOSURE SHALL BE FABRICATED OF HEAVY GAUGE, SHEET STEEL CONSTRUCTION. ALL VENTILATED OPENINGS SHALL BE PROTECTED AGAINST FALLING DIRT.
8. TAPS FOR TRANSFORMERS 25 KVA AND LARGER: TWO 2.5 PERCENT TAPS ABOVE AND TWO 2.5 PERCENT TAPS BELOW NORMAL FULL CAPACITY.
9. INSULATION CLASS: 220 DEG C, UL-COMPONENT-RECOGNIZED INSULATION SYSTEM WITH A MAXIMUM OF 150 DEG C RISE ABOVE 40 DEG C AMBIENT TEMPERATURE. THE MAXIMUM TEMPERATURE OF THE TOP OF THE ENCLOSURE SHALL NOT EXCEED 50°C RISE ABOVE A 40°C AMBIENT.
10. ENERGY EFFICIENCY FOR TRANSFORMERS RATED 15 KVA AND LARGER:
    a. COMPLY WITH DOE 10 CFR PART 431 APPENDIX A OF SUBPART K 2016.
    b. ENERGY EFFICIENCY UNDER DOE 2016 REQUIREMENTS IS TO BE ENERGY VERIFIED BY UL.

2.3 SWITCHBOARDS

A. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:

1. SQUARE D; A BRAND OF SCHNEIDER ELECTRIC.
2. EATON ELECTRICAL INC.; CUTLER-HAMMER BUSINESS UNIT.
3. GE INDUSTRIAL; A DIVISION OF ABB.
4. SIEMENS ENERGY & AUTOMATION, INC.

B. FRONT-CONNECTED, FRONT-ACCESSIBLE SWITCHBOARDS:

1. MAIN DEVICES: FIXED, INDIVIDUALLY MOUNTED UNLESS OTHERWISE INDICATED.
2. BRANCH DEVICES: PANEL MOUNTED FOR SIZES UP TO 400A.
3. SECTIONS FRONT AND REAR ALIGNED.

C. INDOOR ENCLOSURES: STEEL, OUTDOOR NEMA 3R.

D. ENCLOSURE FINISH: FACTORY-APPLIED FINISH IN MANUFACTURER'S STANDARD GRAY FINISH OVER A RUST-INHIBITING PRIMER ON TREATED METAL SURFACE.

E. BARRIERS: BETWEEN ADJACENT SWITCHBOARD SECTIONS.

F. INSULATION AND ISOLATION FOR MAIN BUS OF MAIN SECTION AND MAIN AND VERTICAL BUSES OF FEEDER SECTIONS.

G. HINGED FRONT PANELS: ALLOW ACCESS TO CIRCUIT BREAKER, METERING, ACCESSORY, AND BLANK COMPARTMENTS.

4. REMOVABLE COVERS SHALL FORM TOP, FRONT, AND SIDES. TOP COVERS AT REAR SHALL BE EASILY REMOVABLE FOR DRILLING AND CUTTING.
5. BOTTOM SHALL BE INSULATING, FIRE-RESISTIVE MATERIAL WITH SEPARATE HOLES FOR CABLE DROPS INTO SWITCHBOARD.
6. CABLE SUPPORTS SHALL BE ARRANGED TO FACILITATE CABLING AND ADEQUATE TO SUPPORT CABLES INDICATED, INCLUDING THOSE FOR FUTURE INSTALLATION.

Q. BUSES AND CONNECTIONS: THREE PHASE, FOUR WIRE UNLESS OTHERWISE INDICATED.

R. PHASE- AND NEUTRAL-BUS MATERIAL: HIGH-STRENGTH, ELECTRICAL-GRADE ALUMINUM ALLOY. USE TIN-PLATED ALUMINUM FOR CONNECTING CIRCUIT-BREAKER LINE TO ALUMINUM BUS.

S. GROUND BUS: 1/4-BY-2-INCH- (6-BY-50-MM-) HARD-DRAWN COPPER OF 98 PERCENT CONDUCTIVITY, EQUIPPED WITH MECHANICAL CONNECTORS FOR FEEDER AND BRANCH-CIRCUIT GROUND CONDUCTORS. FOR BUSWAY FEEDERS, EXTEND INSULATED EQUIPMENT GROUNDING CABLE TO BUSWAY GROUND CONNECTION AND SUPPORT CABLE AT INTERVALS IN VERTICAL RUN.

T. MAIN PHASE BUSES AND EQUIPMENT GROUND BUSES: UNIFORM CAPACITY FOR ENTIRE LENGTH OF SWITCHBOARDS MAIN AND DISTRIBUTION SECTIONS. PROVIDE FOR FUTURE EXTENSIONS FROM BOTH ENDS.

U. NEUTRAL BUSES: 100 PERCENT OF THE AMPACITY OF PHASE BUSES UNLESS OTHERWISE INDICATED, EQUIPPED WITH MECHANICAL CONNECTORS FOR OUTGOING CIRCUIT NEUTRAL CABLES. BRACE BUS EXTENSIONS FOR BUSWAY FEEDER NEUTRAL BUS.

2.4 PANELBOARDS

A. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING MANUFACTURERS:

1. SQUARE D; A BRAND OF SCHNEIDER ELECTRIC
2. EATON ELECTRICAL INC.; CUTLER-HAMMER BUSINESS UNIT.
3. GENERAL ELECTRIC COMPANY; GE CONSUMER & INDUSTRIAL - ELECTRICAL DISTRIBUTION.
4. SIEMENS ENERGY & AUTOMATION, INC.

B. GENERAL REQUIREMENTS

1. FABRICATE AND TEST PANELBOARDS ACCORDING TO IEEE 344 TO WITHSTAND SEISMIC FORCES DEFINED IN SECTION 260548 "VIBRATION AND SEISMIC CONTROLS FOR ELECTRICAL SYSTEMS."
2. ENCLOSURES: FLUSH- AND SURFACE-MOUNTED CABINETS, RATED FOR ENVIRONMENTAL CONDITIONS AT INSTALLED LOCATION.
    a. INDOOR DRY AND CLEAN LOCATIONS: NEMA 250, TYPE 1.
    b. OUTDOOR LOCATIONS: NEMA 250, TYPE 3R.
3. HINGED FRONT COVER: ENTIRE FRONT TRIM HINGED TO BOX AND WITH STANDARD DOOR WITHIN HINGED TRIM COVER.
4. FINISHES: GALVANIZED STEEL, FACTORY FINISHED IMMEDIATELY AFTER CLEANING AND PRETREATING WITH MANUFACTURER'S STANDARD TWO-COAT, BAKED-ON FINISH CONSISTING OF PRIME COAT AND THERMOSETTING TOPCOAT OR POWDER COATED
5. BACK BOXES: GALVANIZED STEEL.
6. DIRECTORY CARD: TYPEWRITTEN, INSIDE PANELBOARD DOOR, MOUNTED IN TRANSPARENT CARD HOLDER.
7. INCOMING MAINS LOCATION: TOP AND BOTTOM.
8. PHASE, NEUTRAL, AND GROUND BUSES:
    a. MATERIAL: HARD-DRAWN COPPER, 98 PERCENT CONDUCTIVITY.
    b. EQUIPMENT GROUND BUS: ADEQUATE FOR FEEDER AND BRANCH-CIRCUIT EQUIPMENT GROUNDING CONDUCTORS; BONDED TO BOX.
    c. NEUTRAL BUS: NEUTRAL BUS RATED 100 PERCENT OF PHASE BUS AND UL LISTED AS SUITABLE FOR NONLINEAR LOADS.
9. CONDUCTOR CONNECTORS: SUITABLE FOR USE WITH CONDUCTOR MATERIAL AND SIZES.
    a. LUGS AND BUS-CONFIGURED TERMINATORS: MECHANICAL TYPE.
    b. SUBFEED (DOUBLE) LUGS: MECHANICAL TYPE. LOCATE AT SAME END OF BUS AS INCOMING LUGS OR MAIN DEVICE.
10. FUTURE DEVICES: MOUNTING BRACKETS, BUS CONNECTIONS, FILLER PLATES, AND NECESSARY APPURTENANCES REQUIRED FOR FUTURE INSTALLATION OF DEVICES.
11. PANELBOARD SHORT-CIRCUIT CURRENT RATING: FULLY RATED TO INTERRUPT SYMMETRICAL SHORT-CIRCUIT CURRENT AVAILABLE AT TERMINALS.

C. DISTRIBUTION PANELBOARD REQUIREMENTS

1. PANELBOARDS: NEMA PB 1, POWER AND FEEDER DISTRIBUTION TYPE.
2. INTERIORS SHALL BE COMPLETELY FACTORY ASSEMBLED. THESE SHALL BE DESIGNED SUCH THAT SWITCHING AND PROTECTIVE DEVICES CAN BE REPLACED WITHOUT DISTURBING ADJACENT UNITS AND WITHOUT REMOVING THE MAIN BUS INTERIORS.
3. MAINS: CIRCUIT BREAKER.
4. BRANCH OVERCURRENT PROTECTIVE DEVICES: BOLT-ON CIRCUIT BREAKERS, REPLACEABLE WITHOUT DISTURBING ADJACENT UNITS.
5. CUSTOMER METERING: A SEPARATE CUSTOMER METERING COMPARTMENT AND SECTION WITH FRONT HINGED DOOR, FOR INDICATED METERING. PROVIDE FACTORY-INSTALLED AND TESTED CURRENT TRANSFORMERS FOR EACH SUB-FEEDER. CURRENT TRANSFORMER SECONDARY WIRING SHALL BE TERMINATED ON SHORTING-TYPE TERMINAL BLOCKS. INCLUDE POTENTIAL TRANSFORMERS HAVING PRIMARY AND SECONDARY FUSES WITH DISCONNECTING MEANS AND SECONDARY WIRING TERMINATED ON TERMINAL BLOCKS. METERING SHALL BE MODBUS AND BACNET CAPABLE.

D. LIGHTING AND APPLIANCE BRANCH-CIRCUIT PANELBOARDS

1. PANELBOARDS: NEMA PB 1, LIGHTING AND APPLIANCE BRANCH-CIRCUIT TYPE.
2. MAINS: CIRCUIT BREAKER.
3. BRANCH OVERCURRENT PROTECTIVE DEVICES: BOLT-ON CIRCUIT BREAKERS, REPLACEABLE WITHOUT DISTURBING ADJACENT UNITS.
4. DOORS: DOOR-IN-DOOR TYPE, CONCEALED HINGES; SECURED WITH FLUSH LATCH WITH TUMBLER LOCK; KEYED ALIKE.

2.5 WIRING DEVICES

A. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING MANUFACTURERS:

1. PASS & SEYMOUR/LEGRAND (PASS & SEYMOUR).
2. HUBBELL INCORPORATED; WIRING DEVICE-KELLEMS (HUBBELL).
3. LEVITON MFG. COMPANY INC. (LEVITON).

B. WEATHERPROOF GFCI RECEPTACLES

1. NEMA 5-20, EXTRA HEAVY DUTY, SPECIFICATION GRADE, BACK-WIRED, FEED-THROUGH TYPE.
2. DECORATOR WALLPLATE STYLE.
3. SELF-TEST WITH INDICATOR LIGHT.
4. OUTDOOR COVERS: CAST ALUMINUM

C. COLOR: COORDINATE WITH ARCHITECT.

2.6 CONDUCTORS AND CABLES

A. CONDUCTOR MATERIAL: ELECTRICAL GRADE, SOFT DRAWN ANNEALED COPPER.

B. CONDUCTOR INSULATION: THWN-2.

C. PROVIDE SEPARATE NEUTRAL WITH EACH BRANCH CIRCUIT SERVING OUTLETS. USE COLOR SPIRAL TO MATCH ASSOCIATED PHASE.

2.7 RACEWAY AND BOXES

A. ELECTRICAL METAL TUBING (EMT): STEEL WITH COMPRESSION-TYPE FITTINGS.

B. BOXES AND ENCLOSURES: STEEL, MINIMUM DIMENSIONS 4 INCHES SQUARE BY 2-1/8 INCHES DEEP.

C. PLASTIC COATED RIGID STEEL CONDUIT: GALVANIZED. COMPLY WITH ANSI C80.1. PLASTIC-COATED RIGID STEEL CONDUIT AND FITTINGS: RIGID STEEL CONDUIT AND FITTINGS WITH AN EXTRUDED POLYVINYL CHLORIDE JACKET, MINIMUM 40 MILS. THE JACKET SHALL HAVE HIGH TENSILE STRENGTH, SHALL BE HIGHLY RESISTANT TO CORROSION AND SHALL NOT OXIDIZE OR DETERIORATE OR SHRINK WHEN EXPOSED TO SUNLIGHT AND WEATHER. THE JACKET SHALL BE FLAME RETARDANT AND SHALL NOT SUPPORT COMBUSTION. THE INTERIOR OF THE CONDUIT SHALL HAVE A URETHANE COATING, MINIMUM 2 MILS.

D. CAST IN-PLACE MANHOLES

1. MATERIALS: COMPLY WITH ASTM C 858 AND WITH SECTION 033000 "CAST IN-PLACE CONCRETE"

2.8 GROUNDING AND BONDING

A. INSULATED CONDUCTORS: COPPER WIRE OR CABLE INSULATED FOR 600 V UNLESS OTHERWISE REQUIRED BY APPLICABLE CODE OR AUTHORITIES HAVING JURISDICTION.

B. GROUND RODS: COPPER-CLAD STEEL; 3/4 INCH BY 10 FEET (19 MM BY 3 M)N DIAMETER.

C. CHEMICAL-ENHANCED GROUNDING ELECTRODES: COPPER TUBE, STRAIGHT OR L-SHAPED, CHARGED WITH NONHAZARDOUS ELECTROLYTIC CHEMICAL SALTS

1. TERMINATION: FACTORY-ATTACHED NO. 4/0 AWG BARE CONDUCTOR AT LEAST 48 INCHES (1200 MM) LONG.
2. BACKFILL MATERIAL: ELECTRODE MANUFACTURER'S RECOMMENDED MATERIAL.

PART 3 - EXECUTION

3.1 INSTALLATION OF CONDUCTORS AND CABLES

A. ALL CONDUCTORS AND CABLES SHALL BE INSTALLED IN A RACEWAY.

B. WIRING AT OUTLETS: INSTALL CONDUCTOR AT EACH OUTLET WITH AT LEAST 6 INCHES OF SLACK.

3.2 CONDUCTOR INSULATION AND MULTICONDUCTOR CABLE APPLICATIONS AND WIRING METHODS

A. EXPOSED FEEDERS: GALVANIZED RIGID STEEL CONDUIT.

B. DUCTS FOR ELECTRICAL FEEDERS 600 V AND LESS: RNC, NEMA TYPE EPC-80-PVC, IN DIRECT-BURIED DUCT BANK, UNLESS OTHERWISE INDICATED.

C. HANDHOLES AND BOXES FOR 600 V AND LESS, INCLUDING TELEPHONE, COMMUNICATIONS, AND DATA WIRING:

1. UNITS IN ROADWAYS AND OTHER DELIBERATE TRAFFIC PATHS: PRECAST CONCRETE. AASHTO HB 17, H-20 STRUCTURAL LOAD RATING.
2. UNITS IN DRIVEWAY, PARKING LOT, AND OFF-ROADWAY LOCATIONS, SUBJECT TO OCCASIONAL, NONDELIBERATE LOADING BY HEAVY VEHICLES: PRECAST CONCRETE, AASHTO HB 17, H-20 STRUCTURAL LOAD RATING.
3. UNITS IN SIDEWALK AND SIMILAR APPLICATIONS WITH A SAFETY FACTOR FOR NONDELIBERATE LOADING BY VEHICLES: PRECAST CONCRETE, AASHTO HB 17, H-10 STRUCTURAL LOAD RATING.
4. UNITS SUBJECT TO LIGHT-DUTY PEDESTRIAN TRAFFIC ONLY: HIGH-DENSITY PLASTIC, STRUCTURALLY TESTED ACCORDING TO SCTE 77 WITH 3000-LBF (13 345-N) VERTICAL LOADING.

3.3 CONDUCTOR MATERIAL APPLICATIONS

A. FEEDERS: ALUMINUM FOR FEEDERS NO. 1 AWG AND LARGER, COPPER FOR FEEDERS NO. 2 AWG AND SMALLER. SOLID FOR NO. 10 AWG AND SMALLER, STRANDED FOR 8 AWG AND LARGER

B. BRANCH CIRCUITS: COPPER. SOLID FOR NO. 10 AWG AND SMALLER; STRANDED FOR NO. 8 AWG AND LARGER, EXCEPT VFD CABLE, WHICH SHALL BE EXTRA FLEXIBLE STRANDED.

3.4 RACEWAY APPLICATION

A. APPLY RACEWAY PRODUCTS AS SPECIFIED BELOW UNLESS OTHERWISE INDICATED:

1. EXPOSED, NOT SUBJECT TO PHYSICAL DAMAGE: EMT.
2. EXPOSED: RGS.
3. DAMP OR WET LOCATIONS: RGS.
4. BOXES AND ENCLOSURES: NEMA 250, TYPE 4 IN DAMP OR WET LOCATIONS.

C. MINIMUM RACEWAY SIZE: 3/4-INCH TRADE SIZE.

D. FLEXIBLE CONDUIT CONNECTIONS: USE A MAXIMUM LENGTH OF 72 INCHES.

E. RACEWAY FITTINGS: COMPATIBLE WITH RACEWAYS AND SUITABLE FOR USE AND LOCATION.

F. INSTALL SURFACE RACEWAYS ONLY WHERE INDICATED ON DRAWINGS.

G. MOUNT BOXES AT HEIGHTS INDICATED ON DRAWINGS. IF MOUNTING HEIGHTS OF BOXES ARE NOT INDIVIDUALLY INDICATED, GIVE PRIORITY TO ADA REQUIREMENTS. INSTALL BOXES WITH HEIGHT MEASURED TO TOP OF BOX UNLESS OTHERWISE INDICATED.

H. DO NOT SUPPORT BOXES BY CONDUITS.

I. DUCTS FOR ELECTRICAL FEEDERS 600 V AND LESS: RNC, NEMA TYPE EPC-80-PVC, IN DIRECT-BURIED DUCT BANK, UNLESS OTHERWISE INDICATED.

3.5 WIRING DEVICES

A. CONDUCTORS

1. LENGTH OF FREE CONDUCTORS AT OUTLETS FOR DEVICES SHALL MEET PROVISIONS OF NFPA70, ARTICLE 300, WITHOUT PIGTAILS.

B. DEVICE INSTALLATION:

1. CONNECT DEVICES TO BRANCH CIRCUITS USING PIGTAILS THAT ARE NOT LESS THAN 6 INCHES (152 MM) IN LENGTH.
2. WHEN CONDUCTORS LARGER THAN NO. 12 AWG ARE INSTALLED ON 20A CIRCUITS, SPLICE NO. 12 AWG PIGTAILS FOR DEVICE CONNECTIONS.
3. WHEN MOUNTING INTO METAL BOXES, REMOVE THE FIBER OR PLASTIC WASHERS USED TO HOLD DEVICE-MOUNTING SCREWS IN YOKES, ALLOWING METAL-TO-METAL CONTACT.

C. RECEPTACLE ORIENTATION:

1. INSTALL GROUND PIN OF VERTICALLY MOUNTED RECEPTACLES DOWN, AND ON HORIZONTALLY MOUNTED RECEPTACLES TO THE RIGHT.

D. ARRANGEMENT OF DEVICES:

1. UNLESS OTHERWISE INDICATED, MOUNT FLUSH, WITH LONG DIMENSION VERTICAL AND WITH GROUND TERMINAL OF RECEPTACLES ON TOP. GROUP ADJACENT SWITCHES UNDER SINGLE, MULTIGAND WALL PLATES.

3.6 COLOR AND LEGEND REQUIREMENTS

A. RACEWAYS AND BOXES CARRYING CIRCUITS AT 600V OR LESS:

1. NORMAL BRANCH: BLACK LETTERS ON A WHITE FIELD.
2. EMERGENCY BRANCH: RED LETTERS ON A WHITE FIELD.
3. LEGEND: INDICATE VOLTAGE, PANEL AND BRANCH CIRCUIT. IDENTIFY CIRCUITS FED FROM AN ESSENTIAL ELECTRICAL SOURCE.

B. COLOR-CODING FOR PHASE- AND VOLTAGE-LEVEL IDENTIFICATION, 600 V OR LESS: USE COLORS LISTED BELOW FOR FEEDER AND BRANCH-CIRCUIT CONDUCTORS.

1. COLOR SHALL BE FACTORY APPLIED.
2. COLORS FOR 208/120-V CIRCUITS:
    a. PHASE A: BLACK.
    b. PHASE B: RED.
    c. PHASE C: BLUE.
3. COLORS FOR 480/277-V CIRCUITS:
    c. PHASE A: BROWN.
    d. PHASE B: ORANGE.
    e. PHASE C: YELLOW.
5. COLOR FOR NEUTRAL: WHITE.
6. COLOR FOR EQUIPMENT GROUNDS: GREEN.

C. EQUIPMENT IDENTIFICATION LABELS:

1. BLACK LETTERS ON A WHITE FIELD FOR EQUIPMENT CONNECTED TO NORMAL POWER AND WHITE LETTERS ON A RED FIELD FOR EQUIPMENT CONNECTED TO EMERGENCY POWER.
2. LEGEND: INDICATE VOLTAGE, SOURCE PANEL, AND FEEDER SIZE. IDENTIFY POWER BRANCH (NORMAL, EQUIPMENT, CRITICAL, LIFE SAFETY) AND SOURCE ATS WHERE APPLICABLE.

D. IDENTIFICATION SCHEDULE

1. IDENTIFY CONDUCTORS, CABLES, AND TERMINALS IN ENCLOSURES AND AT JUNCTIONS, TERMINALS, PULL POINTS, AND LOCATIONS OF HIGH VISIBILITY. IDENTIFY BY SYSTEM AND CIRCUIT DESIGNATION.
2. LABELS FOR OUTDOOR CABINETS, BOXES, AND ENCLOSURES FOR POWER AND LIGHTING: METAL-BACKED, BUTYRATE WARNING SIGNS.
3. PANELBOARDS: TYPEWRITTEN DIRECTORY OF CIRCUITS IN THE LOCATION PROVIDED BY PANELBOARD MANUFACTURER. PANELBOARD IDENTIFICATION SHALL BE IN THE FORM OF A ENGRAVED, LAMINATED ACRYLIC OR MELAMINE LABEL. ARC FLASH WARNING SELF-ADHESIVE LABEL ON THE FACE OF THE PANEL INTERIOR.
4. TRANSFORMERS: LABEL THAT INCLUDES TAG DESIGNATION INDICATED ON DRAWINGS FOR THE TRANSFORMER, FEEDER, AND PANELBOARDS OR EQUIPMENT SUPPLIED BY THE SECONDARY.

3.7 GROUNDING AND BONDING

A. CONDUCTORS: INSTALL SOLID CONDUCTOR FOR NO. 8 AWG AND SMALLER, AND STRANDED CONDUCTORS FOR NO. 6 AWG AND LARGER UNLESS OTHERWISE INDICATED.

B. UNDERGROUND GROUNDING CONDUCTORS: INSTALL BARECOPPER CONDUCTOR, NO. 2/0 AWG MINIMUM.

1. BURY AT LEAST 24 INCHES (600 MM) BELOW GRADE.

C. DUCT-BANK GROUNDING CONDUCTOR: BURY 12 INCHES (300 MM) ABOVE DUCT BANK WHEN INDICATED AS PART OF DUCT-BANK INSTALLATION.

D. ISOLATED GROUNDING CONDUCTORS: GREEN-COLORED INSULATION WITH CONTINUOUS YELLOW STRIPE. ON FEEDERS WITH ISOLATED GROUND, IDENTIFY GROUNDING CONDUCTOR WHERE VISIBLE TO NORMAL INSPECTION, WITH ALTERNATING BANDS OF GREEN AND YELLOW TAPE, WITH AT LEAST THREE BANDS OF GREEN AND TWO BANDS OF YELLOW.

E. CONDUCTOR TERMINATIONS AND CONNECTIONS:

1. PIPE AND EQUIPMENT GROUNDING CONDUCTOR TERMINATIONS: BOLTED CONNECTORS.
2. UNDERGROUND CONNECTIONS: WELDED CONNECTORS EXCEPT AT TEST WELLS AND AS OTHERWISE INDICATED.
3. CONNECTIONS TO GROUND RODS AT TEST WELLS: BOLTED CONNECTORS.
4. CONNECTIONS TO STRUCTURAL STEEL: WELDED CONNECTORS.

F. GROUNDING UNDERGROUND DISTRIBUTION SYSTEM COMPONENTS

1. COMPLY WITH IEEE C2 GROUNDING REQUIREMENTS.
2. GROUNDING MANHOLES AND HANDHOLES: INSTALL A DRIVEN GROUND ROD THROUGH MANHOLE OR HANDHOLE FLOOR, CLOSE TO WALL, AND SET ROD DEPTH SO 4 INCHES (100 MM) WILL EXTEND ABOVE FINISHED FLOOR.
3. INSTALL #4/0 BARE COPPER GROUND WIRE LOOP AROUND THE OUTSIDE PERIMETER OF THE MANHOLE, IN SOIL, 12" ABOVE BOTTOM OF MANHOLE. CADWELD GROUND WIRE LOOP TO #4/0 BARE COPPER GROUND WIRE CONNECTING ALL EXPOSED METAL PARTS INSIDE THE MANHOLE THROUGH A 1" OPENING AT THE TOP OF MANHOLE WALL. SEAL AND WATERPROOF OPENING AFTER WIRE INSTALLATION.
4. GROUNDING CONNECTIONS TO MANHOLE COMPONENTS: BOND EXPOSED-METAL PARTS SUCH AS INSERTS, CABLE RACKS, PULLING IRONS, LADDERS, AND CABLE SHIELDS WITHIN EACH MANHOLE OR HANDHOLE, TO GROUND ROD OR GROUNDING CONDUCTOR. MAKE CONNECTIONS WITH NO. 4 AWG MINIMUM, STRANDED, HARD-DRAWN COPPER BONDING CONDUCTOR. TRAIN CONDUCTORS LEVEL OR PLUMB AROUND CORNERS AND FASTEN TO MANHOLE WALLS. CONNECT TO CABLE ARMOR AND CABLE SHIELDS ACCORDING TO WRITTEN INSTRUCTIONS BY MANUFACTURER OF SPLICING AND TERMINATION KITS.
5. PAD-MOUNTED TRANSFORMERS AND MEDIUM VOLTAGE SWITCHES: INSTALL TWO GROUND RODS AND GROUND RING AROUND THE PAD. GROUND PAD-MOUNTED EQUIPMENT AND NONCURRENT-CARRYING METAL ITEMS ASSOCIATED WITH SUBSTATIONS BY CONNECTING THEM TO UNDERGROUND CABLE AND GROUNDING ELECTRODES. INSTALL TINNED-COPPER CONDUCTOR NOT LESS THAN NO. 1/0 # AWG FOR GROUND RING AND FOR TAPS TO EQUIPMENT GROUNDING TERMINALS. BURY GROUND RING NOT LESS THAN 6 INCHES (150 MM) FROM THE FOUNDATION.

A. LABELING:

1. COMPLY WITH REQUIREMENTS IN SECTION 260553 "IDENTIFICATION FOR ELECTRICAL SYSTEMS" FOR INSTRUCTION SIGNS. THE LABEL OR ITS TEXT SHALL BE GREEN.
2. INSTALL LABELS AT THE TELECOMMUNICATIONS BONDING CONDUCTOR AND GROUNDING EQUALIZER AND AT THE GROUNDING ELECTRODE CONDUCTOR WHERE EXPOSED.

DSA STAMP

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REGISTERED PROFESSIONAL ENGINEER ALEX SASSOON No.E17000 ELECTRICAL STATE OF CALIFORNIA

PROJECT TITLE

HRC TEMP RELOCATABLE CLASSROOM & RESTROOM

Cypress College

CYPRESS COMMUNITY COLLEGE

ISSUED

#	DATE	DESCRIPTION
	04/06/2023	DSA BACKCHECK SUBMITTAL

PROJECT IDENTIFICATION

THE DRAWINGS IN THE SHEET INDEX WERE ORIGINALLY CREATED IN AUTODESK REVIT V. 2019 UNLESS OTHERWISE NOTED.

THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42".

SHEET TITLE

SPECIFICATIONS

SHEET NUMBER

E0.3

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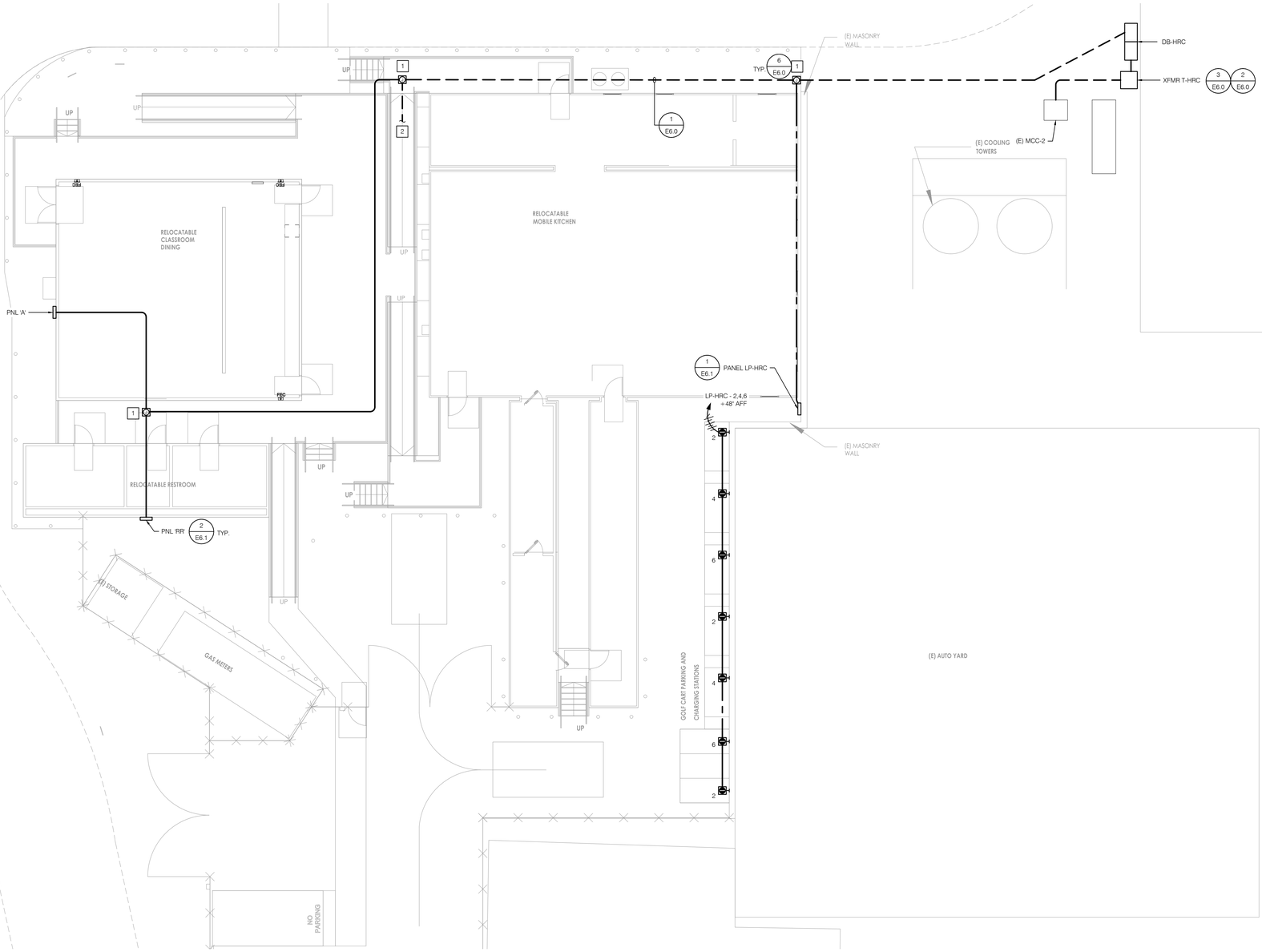
NOT FOR CONSTRUCTION



NOTES

1. PROVIDE MINIMUM 24 INCH BY 36 INCH PRECAST CONCRETE HAND-HOLE FOR POWER DISTRIBUTION TO MODULAR BUILDINGS.
2. SEE RELOCATABLE MOBILE KITCHEN BUILDING SUBMITTAL FOR CONTINUATION.

GENERAL NOTES

1. UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 80, MINIMUM 2-INCH TRADE SIZE, AND BURIED MINIMUM 18 INCHES BELOW GRADE. BENDS SHALL BE CONCRETE ENCASED.
2. UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 80, MINIMUM 2-INCH TRADE SIZE, AND BURIED MINIMUM 18 INCHES BELOW GRADE. BENDS SHALL BE CONCRETE ENCASED.

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

E1.0

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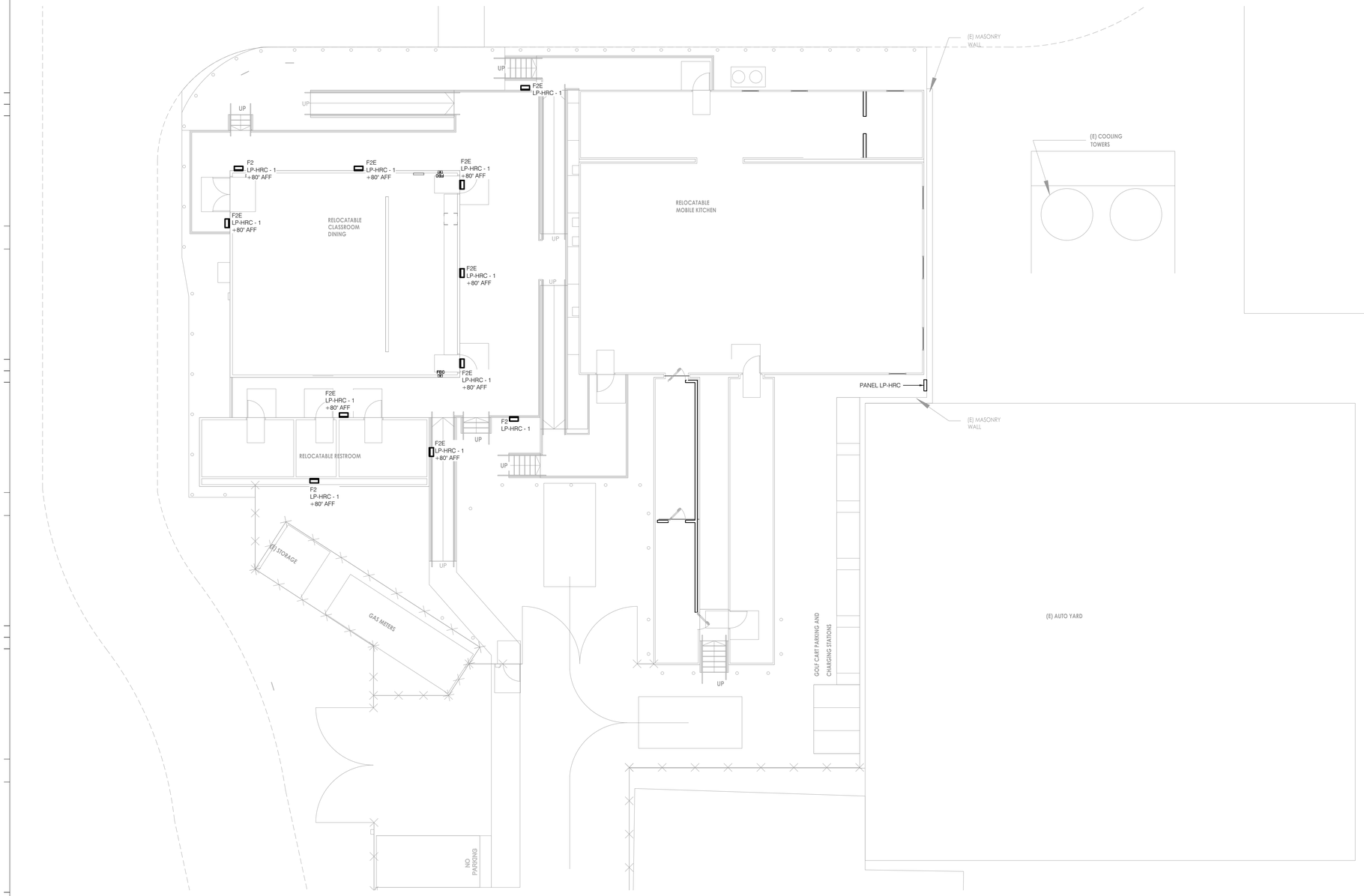
SHEET TITLE

POWER SITE PLAN

SHEET NUMBER



GENERAL NOTES

1. SEE E0.2 FOR FIXTURE SCHEDULE.
2. CONDUITS SHALL BE INSTALLED UNDER THE DECK.

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

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ELECTRICAL
STATE OF CALIFORNIA

PROJECT TITLE

HRC TEMP RELOCATABLE CLASSROOM & RESTROOM

Cypress College
CYPRESS COMMUNITY COLLEGE

ISSUED		
#	DATE	DESCRIPTION
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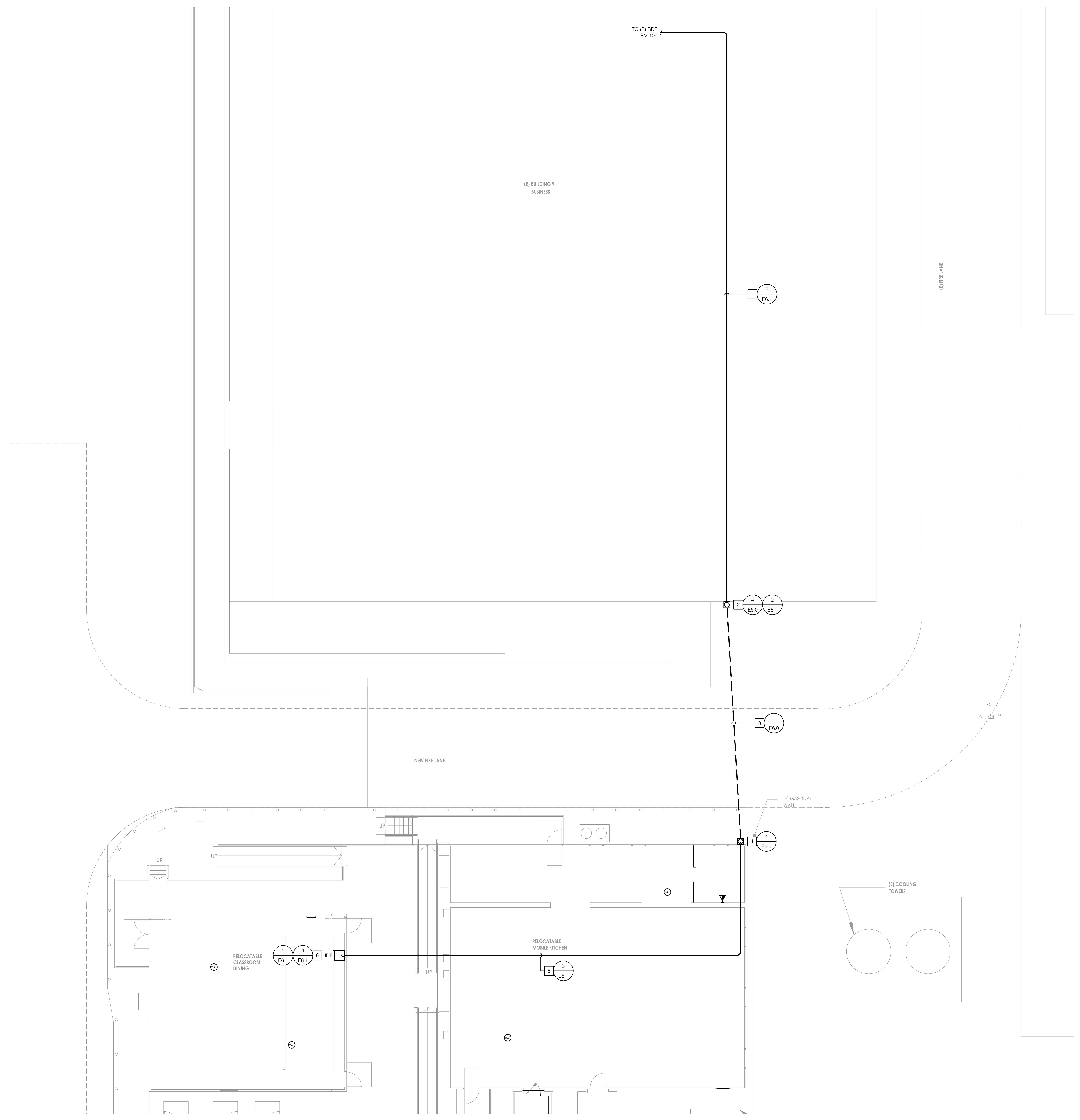
SHEET TITLE

LIGHTING SITE PLAN

SHEET NUMBER

E1.1



NOTES

1. PROVIDE 4-CELL DIELECTRIC PLENUM-RATED AIR BLOWN FIBER TUBE CABLE, FUTUREFLEX #TC04TP2 SUPPORTED BY J-HOOKS MINIMUM 4FT INCREMENTS.
2. CONDUIT TRANSITION FROM ACCESSIBLE CEILING SPACE TO UNDERGROUND. PROVIDE MINIMUM 12"x12"x8" NEMA 3R PULLBOX MOUNTED TO WALL.
3. PROVIDE 4-CELL DIELECTRIC OUTDOOR AIR BLOWN FIBER TUBE CABLE, FUTUREFLEX #TC04TOX.
4. CONDUIT TRANSITION FROM UNDERGROUND TO ACCESSIBLE SPACE UNDERNEATH MODULAR BUILDING. PROVIDE MINIMUM 12"x12"x8" NEMA 3R PULLBOX MOUNTED TO WALL.
5. PROVIDE 4-CELL DIELECTRIC OUTDOOR AIR BLOWN FIBER TUBE CABLE, FUTUREFLEX #TC04MSOS, ROUTED IN MODULAR BUILDING ACCESSIBLE SPACE, SUPPORTED BY J-HOOKS MINIMUM 4FT INCREMENTS.
6. PROVIDE 13U WALL-MOUNTED SWING GATE RACK WITH CABLE MANAGEMENT, CHATSWORTH PRODUCTS.

GENERAL NOTES

1. UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 80, MINIMUM 2-INCH TRADE SIZE, AND BURIED MINIMUM 24 INCHES BELOW GRADE. UNDERGROUND BENDS SHALL BE ENCASED IN MINIMUM 3" CONCRETE OR PVC-COATED RGS TYPE.
2. THE INSTALLATION SHALL MEET THE REQUIREMENTS OF THE LATEST EDITION OF THE NOCCCD CABLING INFRASTRUCTURE GUIDELINES.
3. THE CONTRACTOR SHALL BE A SYSTIMAX CERTIFIED BUSINESS PARTNER IN GOOD STANDING WITH COMMSCOPE, INC. WITHIN THE GEOGRAPHICAL REGION IN WHICH THE CAMPUS RESIDES (SOUTHERN CALIFORNIA).
4. THE CONTRACTOR SHALL BE A LICENSED SUMITOMO FUTUREFLEX PARTNER WITH IN THE SOUTHERN CALIFORNIA AREA.
5. THE CONTRACTOR SHALL BE A LICENSED SUMITOMO FUTUREFLEX PARTNER WITH IN THE SOUTHERN CALIFORNIA AREA.
6. PROVIDE THE STRUCTURED CONNECTIVITY SOLUTIONS SYSTEM WITH A 20-YEAR COMMSCOPE SYSTIMAX WARRANTY.
7. PROVIDE A 25-YEAR EXTENDED WARRANTY FOR ALL SUMITOMO ELECTRIC LIGHTWAVE PRODUCTS.

TELECOM LEGEND

SYMBOL	DESCRIPTION
(voice/data outlet symbol)	VOICE / DATA OUTLET - WALL MOUNTED. PROVIDE AND INSTALL (3) CAT 6A CABLES / JACKS TERMINATED IN A 4-PORT FACEPLATE AT 18" AFF. PROVIDE AND INSTALL 4S JBOX WITH SINGLE GANG MUDRING AND 1-1/4" CONDUIT STUBBED TO ACCESSIBLE CEILING LOCATION. PROVIDE BUSHINGS AND PULLSTRING, U.O.N.
WAP	WIRELESS ACCESS POINT OUTLET - CEILING MOUNTED. PROVIDE AND INSTALL (2) CAT 6A CABLES / JACKS TERMINATED IN A SURFACE MOUNT BOX ABOVE FINISHED CEILING. (NOTE: AT HARDLID CEILING LOCATIONS PROVIDE AND INSTALL 4S JBOX WITH 1-1/4" CONDUIT STUBBED TO ACCESSIBLE CEILING LOCATION. PROVIDE BUSHINGS AND PULLSTRING, U.O.N. TERMINATE CABLES ON JACKS IN 2-PORT FACE PLATE.

TASK RESPONSIBILITY MATRIX

	GC	EC	CC	OWNER	SP
INTER-BUILDING TELECOM CONDUIT SLEEVES		X			
INTER-BUILDING TELECOM CONDUITS		X			
INTERIOR RACEWAYS, CABLE TRAYS, AND BOXES		X			
FIBER OPTIC CABLE TUBE CELLS			X		
MANHOLES AND PULLBOXES		X			
VOIP COPPER CABLING			X		
PROCUREMENT OF VOIP EQUIPMENT				X	
CONFIGURATION OF VOIP EQUIPMENT				X	
EQUIPMENT CABINET AND BRACKETS			X		
MDF ROOM GROUNDING AND BONDING			X		
PLYWOOD BACKBOARD	X				
IDF ELECTRICAL CIRCUITS		X			
IDF CABLE TERMINATION HARDWARE					
PROCUREMENT OF NETWORK EQUIPMENT (SWITCHES, PATCH PANELS, FIBER TERMINATION UNITS)			X		
CONFIGURATION OF NETWORK EQUIPMENT (SWITCHES, STORAGE/SERVERS)				X	
FIBER OPTIC CABLES			X		
COPPER BACKBONE CABLES			X		
COPPER STATION CABLES			X		
PATCH CORDS			X		
JACKS AND FACEPLATES			X		
CABLE TESTING AND REPORTS			X		
PROCUREMENT, INSTALLATION, AND CONFIGURATION OF GBIC MODULES			X		
INSTALLATION OF NETWORK OFCI EQUIPMENT			X		
INSTALLATION, TERMINATION, TESTING, AND LABELING OF NEW OPTICAL FIBER PLANT			X		
FINAL AS-BUILT DRAWINGS AND DOCUMENTATION	X	X	X		

GC = GENERAL CONTRACTOR

EC = ELECTRICAL CONTRACTOR

CC = COMMNICATION CONTRACTOR

SP = SERVICE PROVIDER

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

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o: 949.675.6442

SEAL

LICENSED ARCHITECT AMMAR NAJI SARSAM C-30902 12/31/2023 RENEWAL DATE STATE OF CALIFORNIA

CONSULTANTS

P2S ENG

5000 East Spring Street, Suite 800
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P2S #: 22-0403

PROJECT TITLE

HRC TEMP RELOCATABLE CLASSROOM & RESTROOM

Cypress College

CYPRESS COMMUNITY COLLEGE

ISSUED		
#	DATE	DESCRIPTION
	04/06/2023	DSA BACKCHECK SUBMITTAL

PROJECT IDENTIFICATION

THE DRAWINGS IN THE SHEET INDEX WERE ORIGINALLY CREATED IN AUTODESK REVIT V. 2018 UNLESS OTHERWISE NOTED.

THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42".

SHEET TITLE

TELECOM SITE PLAN

SHEET NUMBER

E1.2

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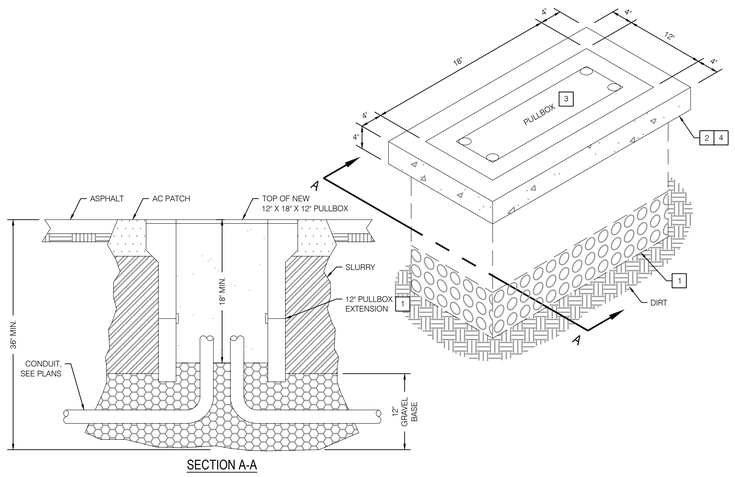


SECTION A-A

NOTES

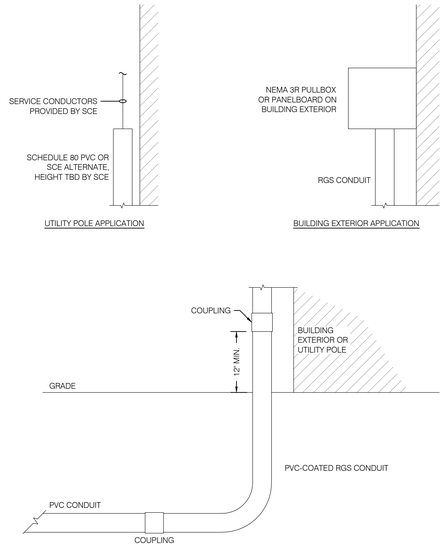
1. PULL BOX BASE. SET ON PEA GRAVEL BASE BENEATH PULL BOX. (PROVIDE EXTENSIONS AS REQ'D. IN FIELD) MIN. OF (1) EXTENSION.
2. POUR 4" CONCRETE OR AC PATCH PAD AROUND EACH PULL BOX TO PREVENT SINKING BELOW GRADE, AND SLURRY COAT AROUND. SEE SECTION A-A.
3. PROVIDE 6'-0", #6 GROUND BOND JUMPER TO COVER FROM SERVICE GROUND CONDUCTOR WITH NECESSARY APPROVED HARDWARE.
4. WATER TIGHT INSTALLATION-FOAM SEAL CONDUIT OPENINGS.

GENERAL NOTES

1. LABEL EACH COVER: A) ELECTRIC PULLBOX
   STEEL BOLT DOWN: B) COMMUNICATION PULLBOX
2. DO NOT MIX POWER & L.V. COMM. CONDUITS.

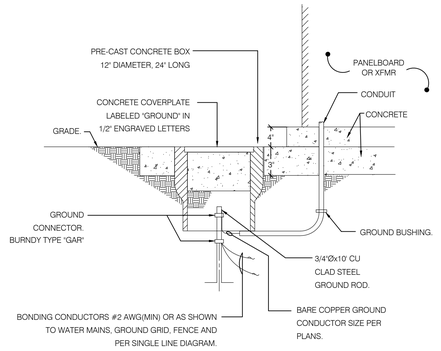
6 HANDHOLE

NO SCALE



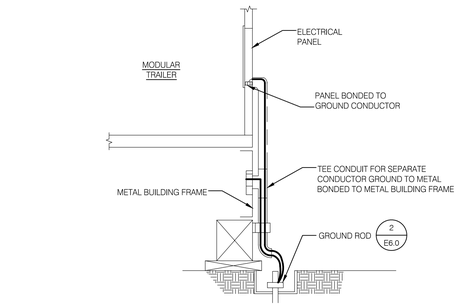
4 CONDUIT RISER

NO SCALE



2 GROUND ROD WELL

NO SCALE

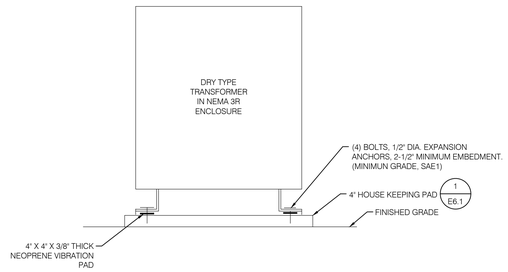


NOTES

1. SIZE OF CONDUCTORS SHALL COMPLY WITH CEC 250.66.
2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL TO METAL BUILDING FRAME (CEC 250.81). IN ADDITION TO THE DETAIL SHOWN ABOVE, BOND THE ELECTRICAL GROUND TO METAL UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH THE EARTH FOR 10 FT OR MORE, IF AVAILABLE (CEC 250.52).
3. ALL MODULES OF FRAME BUILDINGS 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 250.53) AS REQUIRED.GROUNDING TESTS ARE TO BE OBSERVED AND REPORTED BY THE INSPECTOR OF RECORD.
5. ALL METAL BUILDING COMPONENTS MUST BE ELECTRICALLY BONDED TOGETHER, AND EACH BUILDING MUST BE INDEPENDENTLY GROUNDED. MULTIPLE BUILDINGS ARE NOT TO BE GROUNDED THROUGH THE ELECTRICAL SYSTEM. ALL GROUNDING SYSTEMS ARE TO BE TESTED WITH A MEGGER UNIT, OR IN AN OTHERWISE ACCEPTABLE MANNER. REFER TO THE CEC, SECTIONS 250-52 AND 250-80, FOR SPECIFIC GROUNDING REQUIREMENTS.

5 GROUNDING OF PORTABLE BUILIDNG

NO SCALE

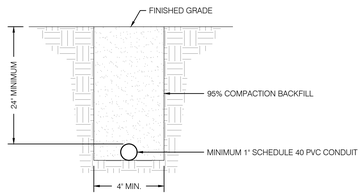


NOTES

1. EXPANSION ANCHORS SHALL BE HILTI-KWIK BOLT ICC ESR#4266.
2. MINIMUM 12 BOLT DIAMETERS SHALL BE MAINTAINED FROM BOLT TO EDGE OF HOUSE KEEPING PAD.

3 DRY TYPE TRANSFORMER

NO SCALE



NOTES

1. IF UNDER PEDESTRIAN PAVEMENT, MUST COMPLY WITH 11B-302.1 AND 11B-303.

1 DUCTBANK

NO SCALE

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SEAL

LICENSED ARCHITECT
AMMAR NAJI SARSAM
C-30902
12/31/2023
RENEWAL DATE
STATE OF CALIFORNIA

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P2S #: 22-0403

REGISTERED PROFESSIONAL ENGINEER
ALEX SASSOON
No. E12930
ELECTRICAL
STATE OF CALIFORNIA

PROJECT TITLE

HRC TEMP RELOCATABLE
CLASSROOM & RESTROOM

Cypress College

CYPRESS COMMUNITY COLLEGE

ISSUED

#	DATE	DESCRIPTION
	04/06/2023	DSA BACKCHECK SUBMITTAL

PROJECT IDENTIFICATION

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SHEET TITLE

DETAILS

SHEET NUMBER

E6.0

DSA SUBMITTAL
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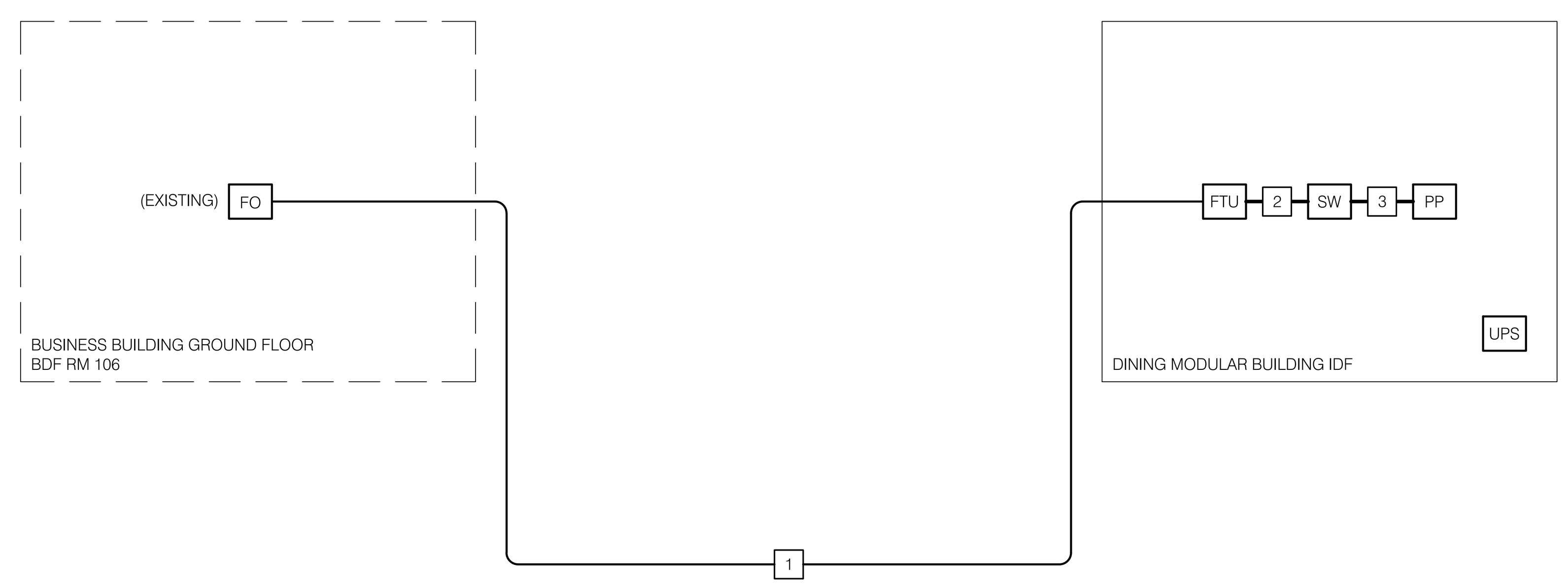
LEGEND

FTU	FIBER OPTIC TERMINATION UNIT, COMMSCOPE SYSTIMAX.
SW	NETWORK SWITCH, COMMSCOPE SYSTIMAX.
PP	PATCH PANEL, COMMSCOPE SYSTIMAX.
UPS	UPS, 1000VA, APC.

DATA CENTER MIGRATION NOTES

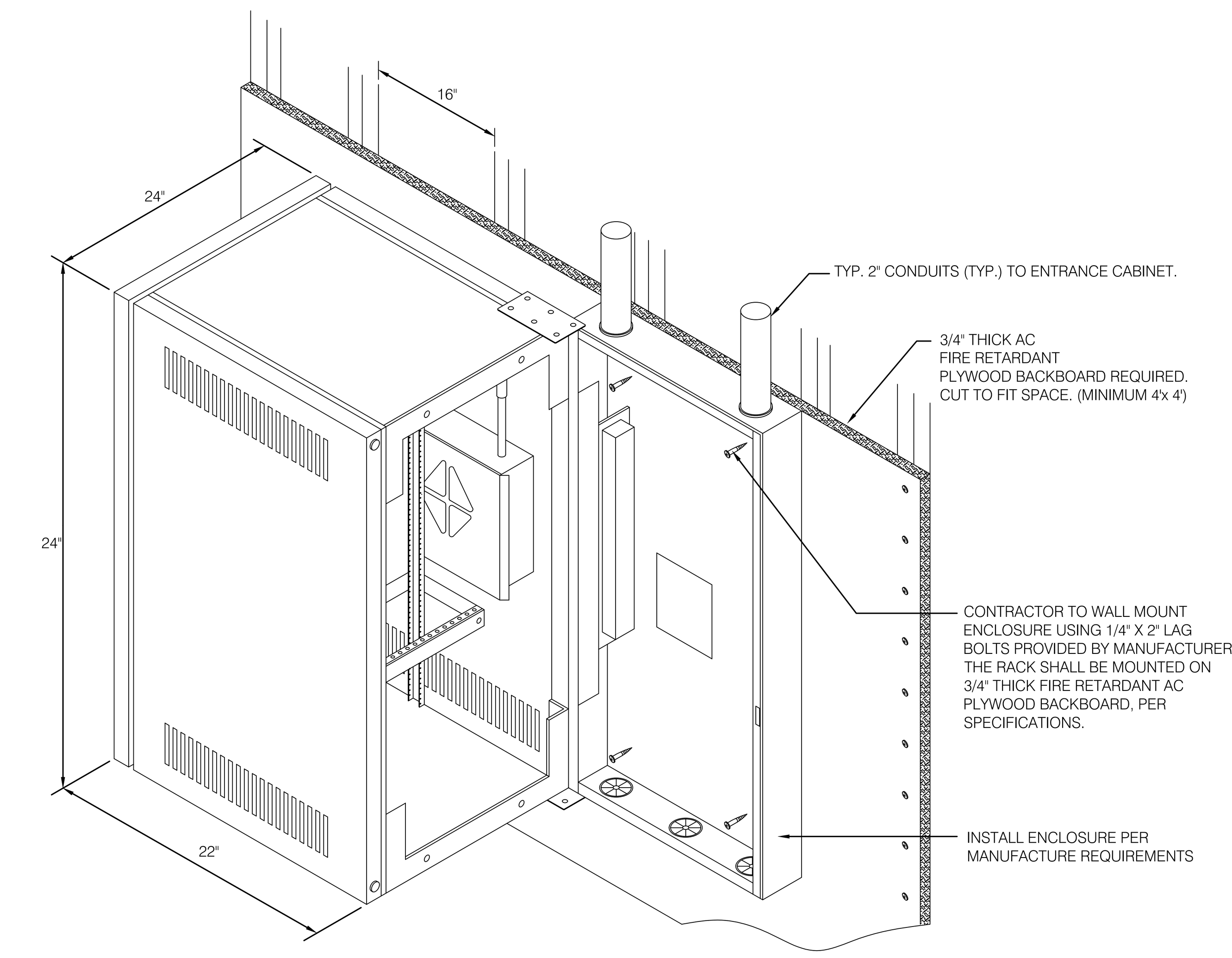
1. PROVIDE 12-STRAND SM AND 12-STRAND MM INCOMING FIBER CONNECTION FROM BUSINESS BUILDING BDF, SUMITOMO FUTUREFLEX.
2. 25 PAIR COPPER CABLE.
3. MINIMUM (15) CAT6A CABLES.



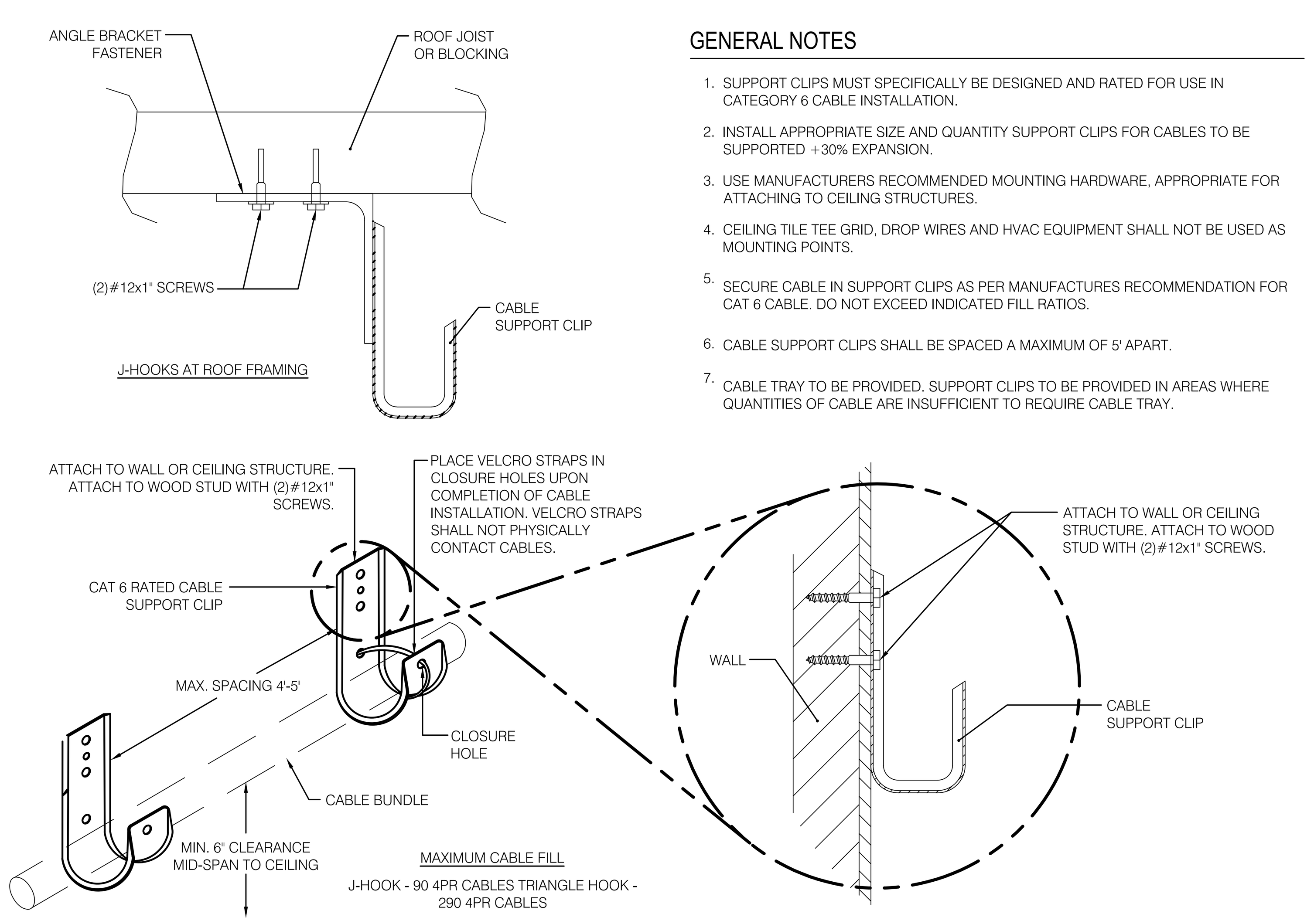
5 SINGLE LINE DIAGRAM - BACKBONE CABLING
NO SCALE

GENERAL NOTES

1. CONTRACTOR TO PROVIDE (2) 2" CONDUITS STUBBED 8' ABOVE CABINET; DEBURR AND BUSH.



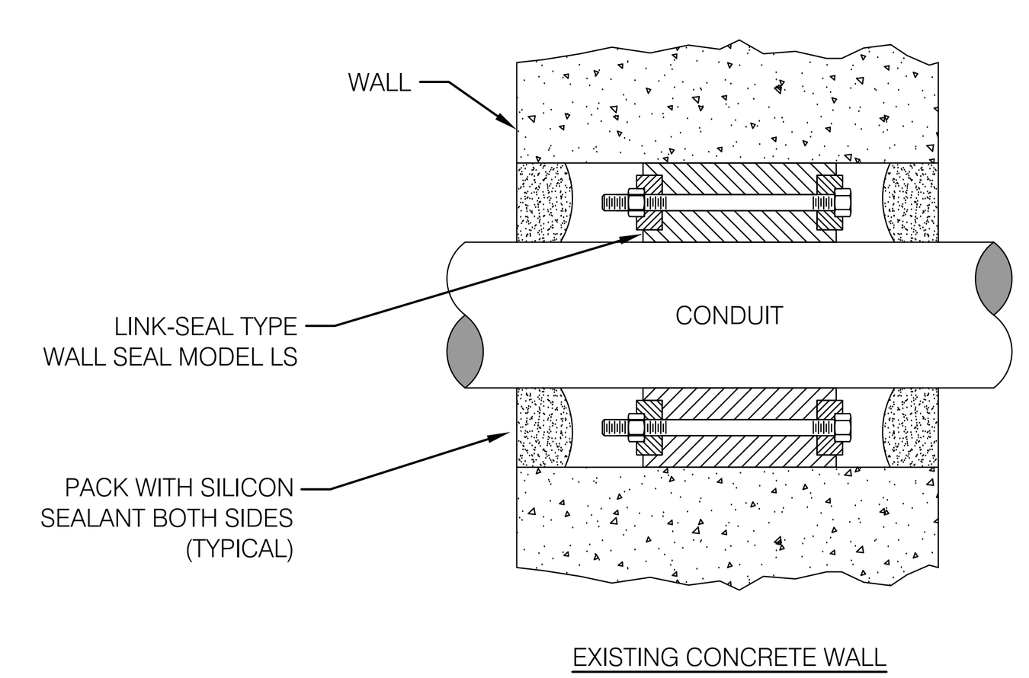
4 WALL MOUNTED IDF ENCLOSURE
NO SCALE



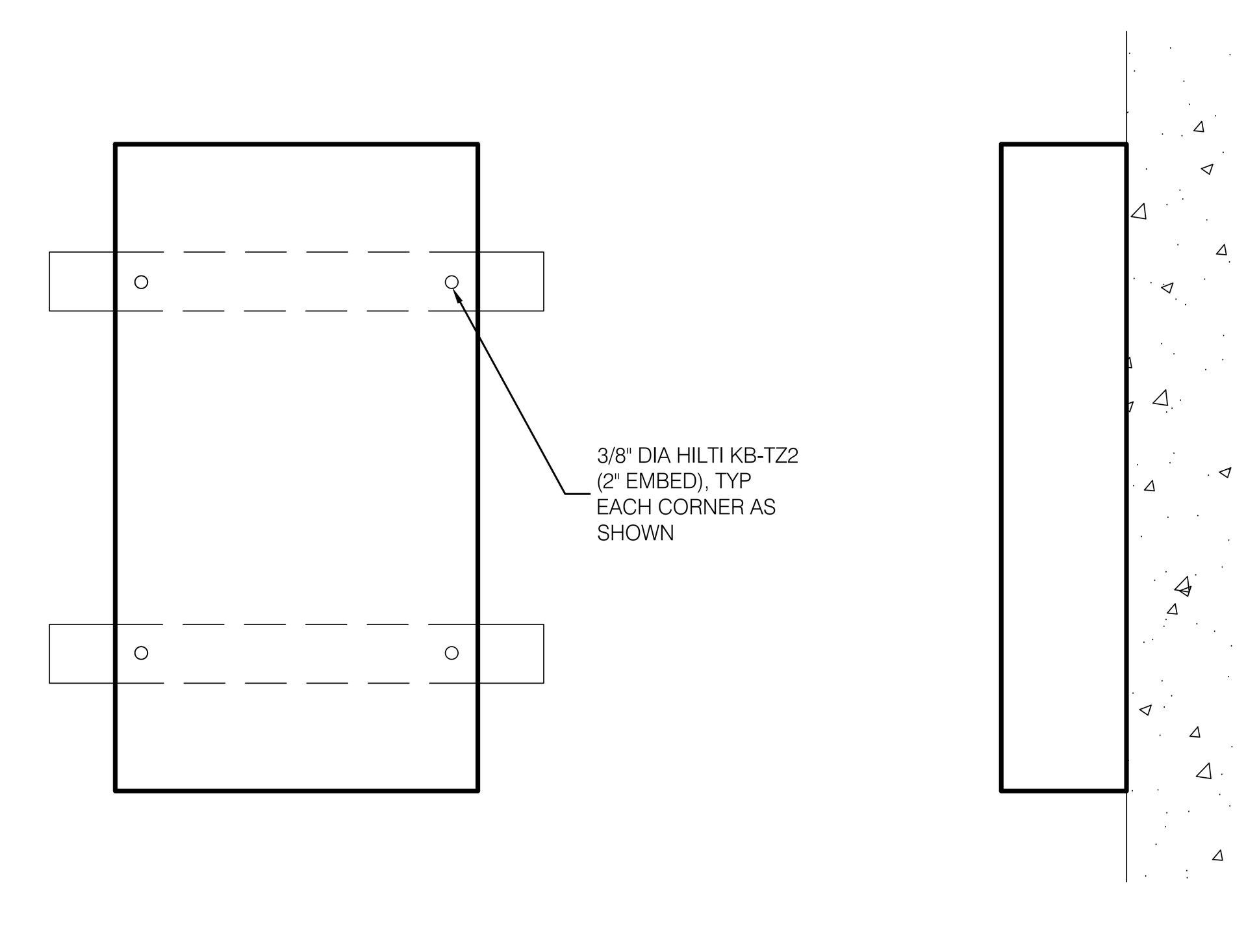
GENERAL NOTES

1. SUPPORT CLIPS MUST SPECIFICALLY BE DESIGNED AND RATED FOR USE IN CATEGORY 6 CABLE INSTALLATION.
2. INSTALL APPROPRIATE SIZE AND QUANTITY SUPPORT CLIPS FOR CABLES TO BE SUPPORTED +30% EXPANSION.
3. USE MANUFACTURERS RECOMMENDED MOUNTING HARDWARE, APPROPRIATE FOR ATTACHING TO CEILING STRUCTURES.
4. CEILING TILE TEE GRID, DROP WIRES AND HVAC EQUIPMENT SHALL NOT BE USED AS MOUNTING POINTS.
5. SECURE CABLE IN SUPPORT CLIPS AS PER MANUFACTURES RECOMMENDATION FOR CAT 6 CABLE. DO NOT EXCEED INDICATED FILL RATIOS.
6. CABLE SUPPORT CLIPS SHALL BE SPACED A MAXIMUM OF 5' APART.
7. CABLE TRAY TO BE PROVIDED. SUPPORT CLIPS TO BE PROVIDED IN AREAS WHERE QUANTITIES OF CABLE ARE INSUFFICIENT TO REQUIRE CABLE TRAY.

3 J-HOOK CABLE SUPPORT
NO SCALE



2 CONDUIT PENETRATION THRU CONCRETE WALL
NO SCALE



1 CONCRETE MOUNTED SURFACE PANEL
NO SCALE

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P2S #: 22-0403

PROJECT TITLE

HRC TEMP RELOCATABLE CLASSROOM & RESTROOM

Cypress College

CYPRESS COMMUNITY COLLEGE

ISSUED

#	DATE	DESCRIPTION
	04/06/2023	DSA BACKCHECK SUBMITTAL

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SHEET TITLE

DETAILS

SHEET NUMBER

E6.1

DSA SUBMITTAL
NOT FOR CONSTRUCTION

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E (Created 01/21) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
This document is used to demonstrate compliance with requirements in §110.9, §130.0, §130.2, §140.7, and §141.0(b)2L for outdoor lighting scopes using the prescriptive path.		
Project Name: NOCCCD Cypress College HRC	Report Page:	Page 1 of 6
Project Address: 9200 VALLEY VIEW ST, CYPRESS, CA, 90630	Date Prepared:	10/07/2022

A. GENERAL INFORMATION

01	Project Location (city)	CYPRESS	04	Total Illuminated Hardscape Area (ft²)	5,270
02	Climate Zone	8			
03	Outdoor Lighting Zone per Title 24, Part 1 §10-114 or as designated by Authority Having Jurisdiction (AHJ):				

☐ LZ-0: Very Low - Undeveloped Parkland ☐ LZ-2: Moderate - Rural Areas ☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval
☐ LZ-1: Low - Developed Parkland ☑ LZ-3: Moderately High - Urban Areas

B. PROJECT SCOPE

Table Instructions: Include any outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 or §141.0(b)2L for alterations.

My project consists of:

01	02	
☑ New Lighting System	Must Comply with Allowances from §140.7.	
☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)?	◯ Yes ◯ No
03	04	05
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method

[1] *FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100*

C. COMPLIANCE RESULTS

Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Calculation of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)2L												Compliance Results		
01		02		03		04		05	06		07		08	09
General Hardscape Allowance §140.7(d)1	+	Per Application §140.7(d)2	+	Sales Frontage §140.7(d)2	+	Ornamental §140.7(d)2	+	Per Specific Area §140.7(d)2	OR Existing Power §141.0(b)2L	=	**Total Allowed** (Watts)	≥	**Total Actual** (Watts)	**07 Must be ≥ 08**
(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	(See Table N)				(See Table F)	
827.33	+		+		+		+		OR	=	827.33	≥	280	**COMPLIES**
Cutoff Compliance (See Table G for Details)													**Not Applicable**	
Controls Compliance (See Table H for Details)													**COMPLIES with Exceptional Conditions**	

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E (Created 01/21) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: NOCCCD Cypress College HRC	Report Page:	Page 2 of 6
Project Address: 9200 VALLEY VIEW ST, CYPRESS, CA, 90630	Date Prepared:	10/07/2022

D. EXCEPTIONAL CONDITIONS

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

Table H. Outdoor Lighting Controls Permit Applicant Notes:
ENTRYWAYS/EXITS: Maximum rated wattage is less than 40 watts per fixture; EXCEPTION 1 to Section 130.2(c)3
Total Hardscape Area in Table A does not match the areas entered in Table I. Please review for compliance.

E. ADDITIONAL REMARKS

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

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

Table Instructions: For new or altered lighting systems demonstrating compliance with §140.7 (ie Table I has expanded for input), include all luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)2L (ie Table N has expanded for input), include only new luminaires being installed and replacement luminaires being installed as part of the project scope (ie, do not include existing luminaires remaining or existing luminaires being moved).

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1,2]	How Wattage is determined	Total number luminaires[2]	Luminaire Status[3]	Excluded per §140.7(a)	Design Watts	Cutoff Req. ≥ 6,200 initial lumen output §130.2(b)[4]	Field Inspector Pass	Fail
F2	WALL LUMINAIRE	☐ Linear	28	Mfr. Spec[1]	3	New	☐	84	NA: <6,200 lumens	☐	☐
F2E	WALL LUMINAIRE	☐ Linear	28	Mfr. Spec[1]	7	New	☐	196	NA: <6,200 lumens	☐	☐
		☐ Linear					☐	0		☐	☐
						Total Designed Watts:		**280**			

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b).

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards January 2021

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E (Created 01/21) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: NOCCCD Cypress College HRC	Report Page:	Page 3 of 6
Project Address: 9200 VALLEY VIEW ST, CYPRESS, CA, 90630	Date Prepared:	10/07/2022

[1] *FOOTNOTES: Authority Having Jurisdiction may ask for luminaire cut sheets to confirm wattage used for compliance per §130.0(c)*
[2] *For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet for the luminaire should be indicated in column 05 instead of number of luminaires.*
[3] *Select "New" for new luminaires in a new outdoor lighting project or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope*
[4] *Compliance with mandatory cutoff requirements is required for luminaires with initial lumen output ≥ 6,200 unless exempted by §130.2(b).*

G. CUTOFF REQUIREMENTS (BUG)

This Section Does Not Apply

H. OUTDOOR LIGHTING CONTROLS

Table Instructions: Complete this table demonstrating compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
*When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank. For each requirement in columns 02 through 04, do not leave the field blank, instead select NA or Exempt* from the dropdown list to indicate not applicable or an exemption.*

Mandatory Controls

01	02	03	04	05	
Area Description	Shut-Off §130.2(c)1	Auto-Schedule §130.2(c)2	Motion Sensor §130.2(c)3	Field Inspector Pass	Fail
ENTRYWAYS/EXITS	Photocontrol	Yes	Exempt *	☐	☐

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX: Not permitted by health & safety to be turned off; EXCEPTION 1 to §130.2(c).

ENTRYWAYS/EXITS	Maximum rated wattage is less than 40 watts per fixture; EXCEPTION 1 to Section 130.2(c)3

I. LIGHTING POWER ALLOWANCE (per §140.7)

Table Continued

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards January 2021

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E (Created 01/21) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: NOCCCD Cypress College HRC	Report Page:	Page 4 of 6
Project Address: 9200 VALLEY VIEW ST, CYPRESS, CA, 90630	Date Prepared:	10/07/2022

Table Continued

Table Instructions: Please complete this table for areas using the allowance calculations per §140.7. General Hardscape Allowance is per Table 140.7-A while "Use it or lost it" Allowances are per Table 140.7-B. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.

	01				
	General Hardscape Allowance	"Use it or lose it" Allowances (select all that apply)			
	☑	☐ Per Application	☐ Sales Frontage	☐ Ornamental	☐ Per Specific Area
	Table I (below)	Table J	Table K	Table L	Table M

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (LZ 2 & 3)

02	03	04	05	06	07	08	09	10
Area Description	Surface Type	Area Wattage Allowance (AWA) Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)	Linear Wattage Allowance (LWA) Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	Total General AWA + LWA (Watts)
Exterior	Concrete	5,271	0.03	158.13	798	0.4	319.2	477.33
								0
						Initial Wattage Allowance for Entire Site (Watts):		**350**
						Total General Hardscape Allowance (Watts):		**827.33**

J. LIGHTING ALLOWANCE: PER APPLICATION

This Section Does Not Apply

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This Section Does Not Apply

L. LIGHTING ALLOWANCE: ORNAMENTAL

This Section Does Not Apply

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This Section Does Not Apply

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This Section Does Not Apply

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards January 2021

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E (Created 01/21) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: NOCCCD Cypress College HRC	Report Page:	Page 5 of 6
Project Address: 9200 VALLEY VIEW ST, CYPRESS, CA, 90630	Date Prepared:	10/07/2022

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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

YES	NO	Form/Title	Field Inspector Pass	Fail
◉	◯	NRCI-LTO-01-E - Must be submitted for all buildings.	☐	☐
◉	◯	NRCI-LTO-02-E - Must be submitted for a lighting control system; or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

YES	NO	Form/Title	Field Inspector Pass	Fail
◉	◯	NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls area added to ≤ 20 luminaires.	☐	☐

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards January 2021

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E (Created 01/21) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: NOCCCD Cypress College HRC	Report Page:	Page 6 of 6
Project Address: 9200 VALLEY VIEW ST, CYPRESS, CA, 90630	Date Prepared:	10/07/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	AMIR JONES	Documentation Author Signature:	Digitally signed by Amir Jones Date: 2022.10.07 09:39:15 -07'00'
Company:	P2S INC	Signature Date:	10.07.2022
Address:	5000 E SPRING ST	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	LONG BEACH, CA 90815	Phone:	562.497.2999

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	ALEX SASSOON	Responsible Designer Signature:	
Company :	P2S INC	Date Signed:	10.07.2022
Address:	5000 E SPRING ST	License:	
City/State/Zip:	LONG BEACH, CA 90815	Phone:	562.497.2999

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards January 2021

DSA STAMP

architecture
www.hparchitecture.com
115 22nd street
Newport Beach, CA 92663
o: 949.675.6442

SEAL

LICENSED ARCHITECT
AMMAR NAJI SARSAM
C-30902
12/31/2023
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANTS

P2S ENG
5000 East Spring Street, Suite 800
Long Beach, CA 90815
T: 562.497.2999
F: 562.497.2990
p2sinc.com
Contact: ALEX SASSOON
P2S #: 22-0403

PROFESSIONAL ENGINEER ALEX SASSOON No. E20630 ELECTRICAL STATE OF CALIFORNIA

PROJECT TITLE

HRC TEMP RELOCATABLE CLASSROOM & RESTROOM

Cypress College
CYPRESS COMMUNITY COLLEGE

ISSUED		
#	DATE	DESCRIPTION
	04/06/2023	DSA BACKCHECK SUBMITTAL

PROJECT IDENTIFICATION

THE DRAWINGS IN THE SHEET INDEX WERE ORIGINALLY CREATED IN AUTODESK REVIT V. 2018 UNLESS OTHERWISE NOTED.

THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42".

SHEET TITLE

ENERGY CODE COMPLIANCE FORMS

SHEET NUMBER

E7.0

DSA SUBMITTAL
NOT FOR CONSTRUCTION

DEVICE SCHEDULE

SYMBOL	MODEL	MANUFACTURER	DESCRIPTION	C.S.F.M.
PANELS/CABINETS				
FACP	4007ES	SIMPLEX	FIRE DETECTION & CONTROL WITH ADDRESSABLE INIATION & NOTIFICATION	7165-0026:0378
CAC	TG-7FS	TELGUARD	5G LTE-M CELLULAR COMMUNICATOR	7300-1402:0503
ADDRESSABLE INITIATING DEVICES				
SD	498-9714	SIMPLEX	SMOKE DETECTOR	7272-0026:0218
	-	-	DETECTOR BASE	-
H	302-195	THERMOTECH INC.	HEAT DETECTOR	7270-0021:001
	-	-	DETECTOR BASE	-
F	4099-9004	SIMPLEX	MANUAL PULL STATION	7150-0026:0224
ADDRESSABLE MODULES				
M	4090-9001	SIMPLEX	ADDRESSABLE MONITOR MODULE	7300-0026:0223
NOTIFICATION APPLIANCES				
	4904-9168	SIMPLEX	MULTI-CANDELA WALL STROBE	7125-0026:0235
	59AV-WRF-BA	SIMPLEX	MULTI-CANDELA WALL HORN STROBE	7125-0026:0383
AUXILIARY ACCESSORIES				
E.O.L.	EOLR-1	NOTIFIER	END OF LINE RESISTOR	-

WIRE SCHEDULE

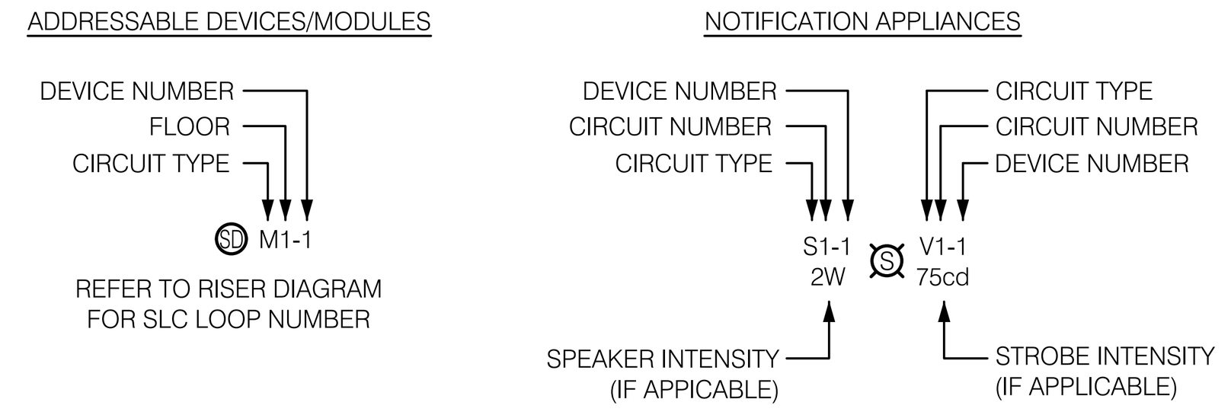
DESIGNATION	CIRCUIT TYPE	WIRE/CABLE TYPE	C.S.F.M.
M	SIGNALING LINE CIRCUIT	UNSHIELDED 2#16 FPL; GENESIS CABLE 4111	7161-1487:0100
V	NOTIFICATION APPLIANCE CIRCUIT	UNSHIELDED 2#12 FPL; GENESIS CABLE 4115	7161-1487:0100
S	SPEAKER CIRCUIT	SHIELDED 2#14 FPL; GENESIS CABLE 4208	7161-1487:0100
X	INITIATING CIRCUIT	UNSHIELDED 2#14 FPL; GENESIS CABLE 4113	7161-1487:0100
P	AUXILIARY POWER (24 VDC)	UNSHIELDED 2#14 FPL; GENESIS CABLE 4113	7161-1487:0100
F	FIREFIGHTER'S TELEPHONE	UNSHIELDED 2#16 FPL; GENESIS CABLE 4206	7161-1487:0100
D	NETWORK DATA	UNSHIELDED 2#18 FPL; GENESIS CABLE 4106	7161-1487:0100
A	NETWORK AUDIO	UNSHIELDED 2#18 FPL; GENESIS CABLE 4106	7161-1487:0100

NOTE:

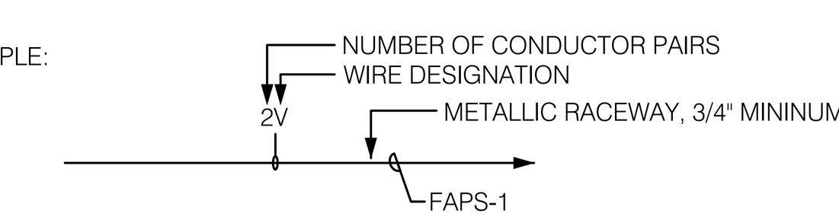
1. ALARM, TROUBLE, AND SUPERVISORY SIGNALS FROM ALL ADDRESSABLE DEVICES SHALL BE ENCODED ON AN NFPA 72 CLASS B SIGNALING LINE CIRCUIT (SLC).
2. INITIATION DEVICE CIRCUITS (IDC) CONTAINING MORE THAN ONE DEVICE SHALL BE WIREDNFPA 72 CLASS B AS PART OF AN ADDRESSABLE DEVICE CONNECTED BY THE SLC.
3. NOTIFICATION APPLIANCE CIRCUITS (NAC) SHALL BE WIRED CLASS B.
4. PROVIDE WET LOCATION RATED CABLES WHERE INSTALLED UNDERGROUND OUTSIDE THE BUILDING.
5. ALARM SIGNALS ARRIVING AT THE FACP SHALL NOT BE LOST FOLLOWING A PRIMARY POWER FAILURE (OR OUTAGE) UNTIL THE ALARM SIGNAL IS PROCESSED AND RECORDED.

LEGEND

SYMBOL	DESCRIPTION
-	NOTE CALLOUT
	DETAIL CALLOUT - NUMBER ON TOP DENOTES DETAIL NUMBER - NUMBER ON BOTTOM DENOTES SHEET DETAIL IS SHOWN
	SECTION CALLOUT
	NEW LINEWORK
	EXISTING LINEWORK
	DEMOLISHED LINEWORK
	CONDUIT CONCEALED IN WALL OR ABOVE CEILING
	CONDUIT EXPOSED
	CONDUIT CONCEALED UNDERGROUND OR BELOW FLOOR
	CONDUIT TURNED UP
	CONDUIT TURNED DOWN
	CONDUIT CAPPED
A-1	BRANCH CIRCUIT HOMERUN TO PANELBOARD AND CIRCUITS AS INDICATED
	FIRE ALARM PANEL, SEE PLANS FOR TYPE
	FIRE ALARM TERMINAL CABINET
J	JUNCTION BOX



EXAMPLE:



ABOVE EXAMPLE "2V" MEANS "2 PAIRS OF 2#12 UNSHIELDED FPL" (4 CONDUCTORS) ROUTED TO FAPS-1

SCOPE OF WORK

1. PROVIDE A COMPLETE MANUAL AND AUTOMATIC FIRE ALARM WITH SYSTEM FOR CYPRESS COLLEGE HRC TEMPORARY BUILDING. PROVIDE DEVICES AS SHOWN IN THE DEVICE SCHEDULE, THE FLOOR PLANS, AND THE SPECIFICATIONS IN THIS CONSTRUCTION DOCUMENT SET.
2. WORK SHALL INCLUDE BUT NOT BE LIMITED TO: THE INSTALLATION AND TESTING OF THE TEMPORARY BUILDING FIRE ALARM SYSTEM.
3. WHERE AN EXISTING REQUIRED FIRE PROTECTION SYSTEM IS TAKEN OUT OF SERVICE THE FIRE DEPARTMENT AND FIRE CODE OFFICIAL SHALL BE NOTIFIED. THE OCCUPIED AREA(S) OF A BUILDING LEFT UNPROTECTED WHERE IMPAIRMENTS ARE MADE TO THE FIRE PROTECTION SYSTEM SHALL BE EVACUATED OR PROVIDED WITH A FIRE WATCH FOR ALL OCCUPANTS UNTIL THE FIRE PROTECTION SYSTEM HAS BEEN RETURNED TO NORMAL SERVICE.
4. UPON COMPLETION A COMPLETE PRETEST SHALL BE PERFORMED TO VERIFY FUNCTIONALITY. IF THE FUNCTIONALITY IS COMPLETE THEN THE PROPER DOCUMENTATION SHALL BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION PRIOR TO SCHEDULING A FINAL INSPECTION.
5. THE FOLLOWING DOCUMENTATION SHALL BE PROVIDED TO THE OWNER UPON FINAL ACCEPTANCE OF THE SYSTEM:
   - A. OWNER'S MANUAL AND INSTALLATION INSTRUCTION COVERING ALL SYSTEM'S EQUIPMENT AND REQUIREMENTS.
   - B. RECORD SHOP DRAWINGS IN AUTOCAD FORMAT.
   - C. RECORD COPY OF SITE SPECIFIC SOFTWARE (FOR SOFTWARE BASED).
   - D. NFPA 72 RECORD OF COMPLETION DOCUMENTATION.

BUILDING INFORMATION

THE CYPRESS COLLEGE HRC BUILDING IS A TEMPORARY BUILDING WITH 1 FLOOR ABOVE GRADE. THE BUILDING WILL INCLUDE DINNING AND RESTROOMS ON ALL ABOVE-GROUND FLOORS.

BUILDING INFORMATION	
OCCUPANCY CLASSIFICATION PER 2019 CBC	A-2
CONSTRUCTION TYPE	V-B
TOTAL SQUARE FOOTAGE	1,793
TOTAL NUMBER OF FLOORS	1
TOTAL BUILDING HEIGHT	75 FT
AUTOMATIC FIRE SPRINKLERS	-
OTHER FIRE SUPPRESSION	-
STORIES	1
SEPARATION REQUIRED	20 FT

BUILDING USE AND OCCUPANCY CLASSIFICATION

THE PROJECT CONSISTS OF THE FOLLOWING OCCUPANCIES:

- GROUP A-3: DINNING
- GROUP B-2: RESTROOMS

CENTRAL MONITORING STATION INFORMATION

MONITORING COMPANY: JOHNSON CONTROLS FIRE PROTECTION LP

CENTRAL STATION UL NO#: 214821-001

ADDRESS: 14200 E EXPOSITION AVE
AURORA, CO 80012-2540

PHONE: 1-800-746-7539

EXPIRATION DATE: 01-JAN-2023

ABBREVIATIONS

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
&	AND	LOC.	LOCATION
@	AT	LOTO	LOCK-OUT & TAG-OUT
A OR AMP	AMPERES	LTG	LIGHTING
ABV	ABOVE	LV	LOW VOLTAGE
AF	AMPERE FUSE RATING	M	METER
AF	AMPERE FUSE RATING	MAX	MAXIMUM
AFF	ABOVE FINISHED FLOOR	MCC	MOTOR CONTROL CENTER
AFG	ABOVE FINISH GRADE	MFGR, MFR	MANUFACTURER
AMP	AMPLIFIER	MH	MANHOLE
ANN	ANNUNCIATOR	MIN	MINIMUM
APPROX.	APPROXIMATE	MTD	MOUNTED
ARCH.	ARCHITECT; ARCHITECTURAL	MTG	MOUNTING
AUTO	AUTOMATIC	MTR	MOTOR
AUX	AUXILIARY	MTTB	MAIN TELEPHONE TERMINAL BOARD
AWG	AMERICAN WIRE GAUGE	MV	MULTI-VOLTAGE
BAT	BATTERY	N	NORTH
BEL	BELOW	NAC	NOTIFICATION APPLIANCE CIRCUIT
BKBD	BACKBOARD	NC	NORMALLY CLOSED
BLDG	BUILDING	NEC	NATIONAL ELECTRICAL CODE
C	CONDUIT	NF	NON-FUSED
CKT	CIRCUIT	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CL	CENTER LINE	NIC	NOT IN CONTRACT
CLG	CEILING	NO.	NUMBER
CMU	CONCRETE MASONRY UNIT	OC	ON CENTER
C.O.	CONDUIT ONLY WITH PULL WIRE	OD	OUTSIDE DIAMETER
COL	COLUMN	OH	OVERHEAD
CSFD	COMBINATION SMOKE FIRE DAMPER	P	POLE
CU	COPPER	PB	PULL BOX
DD	DUCT DETECTOR	PIV	POST INDICATING VALVE
DH	DOOR HOLDER	PL	PLATE
DIAG	DIAGRAM	PNL	PANEL
DIS	DISCONNECT	POC	POINT OF CONNECTION
DIST	DISTANCE	PREF.	PREFERRED
DWG	DRAWING	PRI.	PRIMARY
DWP	DEPARTMENT OF WATER & POWER	PVC	POLY-VINYL CHLORIDE
EA	EACH	PWR	POWER
ELEC.	ELECTRICAL	REC/RECEPT	RECEPTACLE
EM	EMERGENCY	REQ'D	REQUIRED
EMH	ELECTRICAL MANHOLE	RGS	RIGID GALVANIZED STEEL
EMT	ELECTRICAL METALLIC TUBING	RM	ROOM
EOL	END OF LINE	RMC	RIGID METAL CONDUIT
EPO	EMERGENCY POWER OFF	RPBP	REDUCED PRESSURE BACK FLOW PREVENTER
EQUIP	EQUIPMENT	SCE	SOUTHERN CALIFORNIA EDISON
EXIST/(E)	EXISTING	SF	SQUARE FEET
EXP	EXPLOSION PROOF	SHT	SHEET
FA	FIRE ALARM	SIG.	SIGNAL
FACP	FIRE ALARM CONTROL PANEL	SLC	SIGNALING LINE CIRCUIT
FAPS	FIRE ALARM POWER SUPPLY	SP	SPARE
FATC	FIRE ALARM TERMINAL CABINET	SPECS	SPECIFICATIONS
FFE	FINISHED FLOOR ELEVATION	ST	STREET
FIN.	FINISH	STD	STANDARD
FIXT	FIXTURE	STP	SHIELDED TWISTED PAIR
FLR	FLOOR	SW	SWITCH
FMC	FLEXIBLE METAL CONDUIT	SWBD	SWITCHBOARD
FO	FIBER OBTIC	SWGR	SWITCHGEAR
FP	FIRE PUMP	TB	TERMINAL BLOCK
FT	FEET	TEL./TELE	TELEPHONE
FTG	FOOTING	TMH	TELEPHONE MANHOLE
GEN	GENERATOR	T.O.D.	TOP OF DUCTBANK
GFI	GROUND FAULT INTERRUPTER	T.O.M.	TOP OF MANHOLE
GND	GROUND	TPS	TWISTED SHIELDED PAIR
HOA	HAND-OFF-AUTOMATIC	TRANSF,XFMR	TRANSFORMER
HP	HORSEPOWER	TS	TAMPER SWITCH
HT	HEIGHT	TYP	TYPICAL
HTR	HEATER	UG	UNDERGROUND
HZ	HERTZ	UON	UNLESS OTHERWISE NOTED
IDC	INITIATION DEVICE CIRCUIT	V	VOLTS
IMC	INTERMEDIATE METAL CONDUIT	VA	VOLT-AMPERES
J, JB, J-BOX	JUNCTION BOX	VAC	VOLTS, ALTERNATING CURRENT
KV	KILOVOLT	VDC	VOLTS, DIRECT CURRENT
KVA	KILOVOLT-AMPERES	VECP	VOICE/EVACUATION CONTROL PANEL
KW	KILOWATT	W	WATTS
LF	LINEAR FEET	W/	WITH
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT	W/O	WITHOUT
LGST	LARGEST	WP	WEATHERPROOF

IN THE EVENT ABBREVIATIONS NOT MENTIONED HEREIN ARE USED, REFERENCE WILL BE MADE TO ANSI Y1.1, MILITARY STANDARD ABBREVIATIONS, AND OTHER STANDARD INDUSTRY CONVENTIONS.

APPLICABLE CODES

CALIFORNIA BUILDINGS STANDARDS CODE (CALIFORNIA CODE OF REGULATIONS, TITLE 24):

PART 1	2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, TITLE 24 C.C.R.
PART 2	2022 CALIFORNIA CODE, TITLE 24 C.C.R. (2021 INTERNATIONAL BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH CALIFORNIA AMENDMENTS)
PART 3	2022 CALIFORNIA ELECTRICAL CODE, TITLE 24 C.C.R. (2021 NATIONAL ELECTRICAL CODE OF THE NATIONAL FIRE PREVENTION ASSOCIATION, NFPA)
PART 4	2022 CALIFORNIA MECHANICAL CODE, TITLE 24 C.C.R. (2021 UNIFORM MECHANICAL CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO)
PART 5	2022 CALIFORNIA PLUMBING CODE, TITLE 24 C.C.R. (2021 UNIFORM PLUMBING CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO)
PART 6	2022 CALIFORNIA ENERGY CODE, TITLE 24 C.C.R.
PART 9	2022 CALIFORNIA FIRE CODE, TITLE 24 C.C.R. (2021 INTERNATIONAL FIRE CODE OF THE INTERNATIONAL CODE COUNCIL)
PART 10	2022 CALIFORNIA EXISTING BUILDING CODE, TITLE 24 C.C.R. (2021 INTERNATIONAL EXISTING BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH AMENDMENTS)
PART 11	2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), TITLE 24 C.C.R.
PART 12	2022 CALIFORNIA REFERENCED STANDARDS CODE, TITLE 24 C.C.R.
	TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

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

NFPA 13	AUTOMATIC SPRINKLER SYSTEMS (CALIFORNIA AMENDED)	2016 EDITION
NFPA 14	STANDPIPE SYSTEMS (CALIFORNIA AMENDED)	2016 EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTENS	2016 EDITION
NFPA 17A	WET CHEMICAL EXTINGUISHING SYSTEMS	2016 EDITION
NFPA 20	STATIONARY PUMPS	2016 EDITION
NFPA 24	PRIVATE FIRE SERVICE MAINS (CALIFORNIA AMENDED)	2016 EDITION
NFPA 72	NATIONAL FIRE ALARM CODE (CALIFORNIA AMENDED) (NOTE: SEE UL STANDARD 1971 FOR "VISUAL DEVICES")	2016 EDITION
NFPA 80	FIRE DOOR AND OTHER OPENINGS PROTECTIVES	2016 EDITION

WIRE FILL CHART

TRADE SIZE	INTERNAL DIAMETER INCHES	AREA - SQUARE INCHES									
		TOTAL 100%	PERCENT REDUCTION PER NUMBER OF 18AWG TWISTED SHIELDED PAIRS								
			OVER 2 COND. 40%	1	2	3	4	5	6	7	8
1/2	0.622	0.30	0.12	33%	66%	99%	X	X	X	X	X
3/4	0.824	0.53	0.21	19%	38%	57%	76%	95%	X	X	X
1	1.049	0.86	0.34	12%	24%	36%	48%	60%	72%	84%	96%
1 1/4	1.380	1.50	0.60	7%	14%	21%	28%	35%	42%	49%	56%
1 1/2	1.610	2.04	0.82	5%	10%	15%	20%	25	30%	35%	40%
2	2.067	3.36	1.34	3.00%	6%	9%	12%	15%	18%	21%	24%

GENERAL NOTES

1. CONTROL CIRCUITS ARE NON POWER LIMITED. MINIMUM RECOMMENDED WIRE SIZE TO BE DETERMINED BY CIRCUIT LOAD.
2. WIRING SHALL NOT BE LOOPED THROUGH DEVICES UPON TERMINATION. WIRE MUST BE CUT FOR IN AND OUT RUNS PRIOR TO DEVICE TERMINATION.
3. WHERE SHIELDED CABLE IS USED, THE SHIELD SHALL BE CONTINUOUS AND GROUNDED ONLY AT THE RESPECTIVE CONTROL PANEL.
4. T-TAPPING OR PARALLEL BRANCHING OF NOTIFICATION APPLIANCE DEVICE CIRCUITS IS PROHIBITED ON CLASS A CIRCUITS.
5. ELECTRICAL CONTRACTOR IS REQUIRED TO USE: COLOR CODE, WIRE NUMBERS, OR AS SPECIFIED IN THE PROJECT SPECIFICATIONS ON ALL CIRCUITS AND SHALL BE CONTINUOUS, OTHERWISE, NO FINAL CONNECTIONS OR TESTING SHALL BE PERFORMED. IF WIRE COLOR CODING IS USED, GREEN WILL BE USED FOR GROUND BONDING ONLY.
6. POINT AND COMMON ANNUNCIATION AND T-TAPPING PROHIBITED.
7. ALL WIRING, INITIATING DEVICES AND ANNUNCIATOR PANELS SHALL BE SUPERVISED TO THE PRINCIPAL POINT OF ANNUNCIATION. (FIRE ALARM CONTROL PANEL(S) TO SUPERVISE ANNUNCIATOR PANEL(S), SUB-PANEL(S), ALL CIRCUITS AND INITIATING DEVICES).
8. FIRE ALARM SIGNAL SHALL MEET ANSI S3.41, AUDIBLE EMERGENCY EVACUATION SIGNAL (TEMPORAL PATTERN).
9. AUDIBILITY OF ALARM SHALL BE NOT LESS THAN 15DB ABOVE AMBIENT SOUND THROUGHOUT THE AREA OF ALARM.
10. ALL STROBE APPLIANCES SHALL BE SYNCHRONIZED IN ACCORDANCE WITH NATIONAL FIRE ALARM CODE (NFPA 72). REFERENCE APPLICABLE EDITIONS UNDER "APPLICABLE CODES & REGULATIONS".
11. STROBE APPLIANCE LOCATIONS ARE BASED ON 10 FOOT CEILING HEIGHTS AND ARE INSTALLED IN ACCORDANCE WITH NATIONAL FIRE ALARM CODE (NFPA 72) UNLESS OTHERWISE NOTED. REFERENCE APPLICABLE EDITIONS UNDER "APPLICABLE CODES & REGULATIONS".
12. WALL-MOUNTED STROBE AND HORN/STROBE APPLIANCES SHALL BE MOUNTED A MINIMUM OF 80 INCHES ABOVE FINISHED FLOOR OR 6 INCHES MINIMUM BELOW THE CEILING, (WHICH EVER IS LOWER). MEASUREMENT ARE TO BE TAKEN FROM BOTTOM OF STROBE.
13. PHOTOELECTRIC DETECTORS SHALL NOT BE IN DIRECT AIR STREAM SUPPLY AIR OUTLETS.
14. REFER TO RESPECTIVE CATALOG CUT SHEETS FOR ELECTRICAL MOUNTING HARDWARE.
15. ALL DEVICES OF THE FIRE ALARM SYSTEM SHALL BE APPROVED AND LISTED BY THE CALIFORNIA STATE FIRE MARSHAL.
16. AUDIBILITY WILL BE DETERMINED BY THE FIELD FIRE MARSHAL OR DSA INSPECTOR.
17. ALL FIRE ALARM CIRCUITS SHALL BE LABELED AT CONNECTIONS AND AT JUNCTION BOXES.
18. DIFFERENTIAL PRESSURE SWITCHES SHALL BE SUPPLIED AND INSTALLED BY A LICENSED MECHANICAL CONTRACTOR. THE ELECTRICAL CONNECTION TO THE DIFFERENTIAL PRESSURE SWITCH SHALL BE MADE BY THE FIRE ALARM CONTRACTOR.
19. UNLESS OTHERWISE NOTED ALL WIRING AND INSTALLATION METHODS SHALL CONFORM TO CALIFORNIA ELECTRICAL CODE (CEC), ARTICLE 760. SEE APPLICABLE EDITION UNDER "APPLICABLE CODES & REGULATIONS".
20. ALL WIRE CONDUCTORS SHALL BE POWER LIMITED COPPER WIRING AND INSTALLED WITHIN A METALLIC RACEWAY.
21. ALL RACEWAY RUNS INDICATED WITHIN THIS DRAWING PACKAGE ARE SHOWN DIAGRAMMICALLY AND ARE FOR CIRCUITING PURPOSES ONLY. ALL RUNS SHOWN SHOULD NOT SERVE IN ANY WAY AS AN ACTUAL ROUTING GUIDE FOR INSTALLATION OF RACEWAYS. EXACT INSTALL LOCATION SHALL BE FIELD DETERMINED.
22. ADDITIONAL JUNCTION BOXES NOT SHOWN MAY BE REQUIRED TO ACCOMMODATE PROPER RACEWAY INSTALLATIONS. IT IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO DETERMINE THE NECESSARY AMOUNT OF JUNCTION BOXES REQUIRED.
23. SUBMITTED DRAWING PACKAGE MUST BE REVIEWED BY COLLEGE, OR DISTRICT REPRESENTATIVE AND ONE COPY OF THE REVIEWED DRAWING AND SUBMITTAL MUST BE RETURNED TO MANUFACTURER BEFORE ANY EQUIPMENT IS SHIPPED OR INSTALLED. CUSTOM ANNUNCIATORS WILL NOT BE FABRICATED UNTIL WRITTEN APPROVAL OF LAYOUT AND/OR ARTWORK IS RECEIVED.
24. FOR INSPECTION AND OR TESTING THE FIRE MARSHAL OR DSA INSPECTOR SHALL BE NOTIFIED FOR SCHEDULING AN APPOINTMENT.
25. A CERTIFICATE OF COMPLIANCE SHALL BE PREPARED BY THE INSTALLER AND GIVEN TO THE FIRE MARSHAL UPON COMPLETION OF THE INSTALLATION.
26. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE INSPECTOR OF RECORD. THE STRICTER REQUIREMENT WILL PREVAIL.
27. A STAMPED SET OF APPROVED FIRE ALARM PLANS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION. ANY DEVIATION FROM APPROVED PLANS, INCLUDING THE SUBSTITUTION OF DEVICES SHALL BE APPROVED BY THE FIRE MARSHAL.
28. UPON COMPLETION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE FIRE MARSHAL.
29. UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBERS SHALL BE CUT, DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DISTRICT STRUCTURAL ENGINEER FROM THE DIVISION OF THE STATE ARCHITECT.

SHEET INDEX

DSA STAMP

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115 22nd street
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SEAL

LICENSED ARCHITECT AMMAR NAJI SARSAM C-30902 12/31/2023 RENEWAL DATE STATE OF CALIFORNIA

CONSULTANTS

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Long Beach, CA 90815
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P2S #: 22-0403

REGISTERED PROFESSIONAL ENGINEER ALEXANDER MH SASSOON No. E22639 ELECTRICAL STATE OF CALIFORNIA

PROJECT TITLE

HRC TEMP RELOCATABLE CLASSROOM & RESTROOM

Cypress College

CYPRESS COMMUNITY COLLEGE

ISSUED		
#	DATE	DESCRIPTION
	04/06/2023	DSA BACKCHECK SUBMITTAL

PROJECT IDENTIFICATION

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THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42".

SHEET TITLE

GENERAL NOTES, LEGEND, ABBREVIATIONS AND SHEET INDEX

SHEET NUMBER

FA0.1

DSA SUBMITTAL
NOT FOR CONSTRUCTION

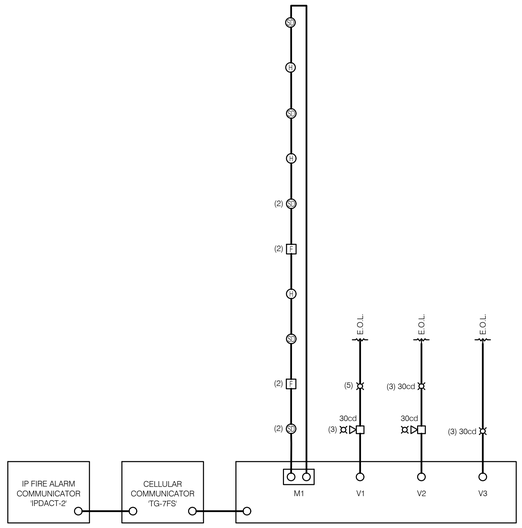
NOTIFICATION APPLIANCE CIRCUIT (NAC) VOLTAGE DROP CALCULATIONS										
LOCATION:	HRC CLASSROOM									
PANEL NAME:	FACP		SIGNAL CIRCUIT		NAC CIRCUIT		NAC CIRCUIT		NAC CIRCUIT	
			M1		V1		V2		V3	
DEVICE		CURRENT (AMPS)	QTY	CURR	QTY	CURR	QTY	CURR	QTY	CURR
SMOKE DETECTOR	498-9714	0.00030	7	0.002		0.000	2	0.001		0.000
WALL STROBE (30cd)	4904-9168	0.14300		0.000	5	0.715	3	0.429	3	0.429
WALL HORN/STROBE (30cd)	59AV-WRF-BA	0.24500		0.000	3	0.735	1	0.245		0.000
HEAT DETECTOR	302-195	0.00030	3	0.001		0.000		0.000		0.000
PULL STATION	4099-9004	0.00038	4	0.002		0.000		0.000		0.000
TOTAL CURRENT ON CIRCUIT			0.005 AMPS		1.450 AMPS		0.675 AMPS		0.429 AMPS	
TOTAL WIRE LENGTH			500 FT		500 FT		500 FT		500 FT	
WIRE SIZE			16 AWG		12 AWG		12 AWG		12 AWG	
%VOLTAGE DROP OF CIRCUIT VOLTAGE (24V)			0.0 %		10.0 %		4.6 %		3.0 %	
VOLTAGE DROP OF CIRCUIT VOLTAGE (24V)			0.01 V		2.40 V		1.12 V		0.71 V	
VOLTAGE @ END OF CIRCUIT (24V-VD)			23.99 V		21.60 V		22.88 V		23.29 V	
OPERATING VOLTAGE RANGE FOR 24V NOTIFICATION TO BE 16V-33V										

$$\%\ \text{V-DROP} = \frac{\text{DISTANCE X TOT CURR X } 21.6}{6530}\ \text{V}$$

BATTERY SIZING CALCULATION						
LOCATION:	HRC CLASSROOM					
PANEL NAME:	FACP					
			STD-BY PER	ALARM PER		
DEVICE		QTY	DEVICE (AMPS)	DEVICE (AMPS)	STD-BY (AMPS)	ALARMS (AMPS)
FACP	4007ES	1	0.25000	0.39000	0.250	0.390
CAC	TG-7FS	1	0.01800	0.11000	0.018	0.110
ADDRESSABLE MODULE	4090-9001	1	0.00035	0.00045	0.005	0.006
SMOKE DETECTOR	498-9714	7	0.00030	0.00650	0.002	0.046
WALL HORN/STROBE	59AV-WRF-BA	4	0.00000	0.24500	0.000	1.960
WALL STROBE	4904-9168	10	0.00000	0.24500	0.000	1.960
HEAT DETECTOR	302-195	3	0.00030	0.00650	0.001	0.020
PULL STATION	4099-9004	4	0.00038	0.00500	0.002	0.020
				TOTALS	0.278	4.511
STAND-BY LOAD =	0.278 AMPS			ALARM LOAD =	4.511 AMPS	
STAND-BY TIME =	24 HRS			ALARM TIME =	5 / 60 HRS	
STAND-BY =	6.660 Ah (AMP HRS)			ALARM =	0.376 Ah (AMP HRS)	
TOTAL = STAND-BY + ALARM --->			STAND-BY =	6.660	Ah (AMP HRS)	
			ALARM =	0.376	Ah (AMP HRS)	
			TOTAL =	7.036	Ah (AMP HRS)	
			DERATING FACTOR (X 125%) =	8.795	Ah (AMP HRS)	
MINIMUM BATTERY SIZE = 8.795 Ah (AMP HRS)						
PANEL BATTERY SIZE = 7.600 Ah (AMP HRS)						

2 BATTERY AND VOLTAGE DROP CALCULATIONS
NO SCALE

GENERAL NOTES
1. DESIGNED WITH 'RELOCATABLE CLASSROOM & RESTROOM BUILDINGS' SUBMITTAL.



1 RISER DIAGRAM
NO SCALE

GENERAL NOTES
1. DESIGNED WITH 'RELOCATABLE MOBILE KITCHEN BUILDING' SUBMITTAL.

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PROJECT TITLE

HRC TEMP RELOCATABLE CLASSROOM & RESTROOM
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Cypress College

CYPRESS COMMUNITY COLLEGE
9200 VALLEY VIEW ST.
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SHEET TITLE

RISER DIAGRAM AND BATTERY CALCULATIONS

SHEET NUMBER

FA0.2

DSA SUBMITTAL
NOT FOR CONSTRUCTION

SPECIFICATIONS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 01 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.

1.2 ACTION SUBMITTALS

A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT, INCLUDING FURNISHED OPTIONS AND ACCESSORIES.

1. INCLUDE CONSTRUCTION DETAILS, MATERIAL DESCRIPTIONS, DIMENSIONS, PROFILES, AND FINISHES.
2. INCLUDE RATED CAPACITIES, OPERATING CHARACTERISTICS, AND ELECTRICAL CHARACTERISTICS.

B. SHOP DRAWINGS: FOR FIRE-ALARM SYSTEM.

1. COMPLY WITH RECOMMENDATIONS AND REQUIREMENTS IN THE "DOCUMENTATION" SECTION OF THE "FUNDAMENTALS" CHAPTER IN NFPA 72.
2. INCLUDE PLANS, ELEVATIONS, SECTIONS, DETAILS, AND ATTACHMENTS TO OTHER WORK.
3. INCLUDE DETAILS OF EQUIPMENT ASSEMBLIES. INDICATE DIMENSIONS, WEIGHTS, LOADS, REQUIRED CLEARANCES, METHOD OF FIELD ASSEMBLY, COMPONENTS, AND LOCATIONS. INDICATE CONDUCTOR SIZES, INDICATE TERMINATION LOCATIONS AND REQUIREMENTS, AND DISTINGUISH BETWEEN FACTORY AND FIELD WIRING.
4. DETAIL ASSEMBLY AND SUPPORT REQUIREMENTS.
5. INCLUDE VOLTAGE DROP CALCULATIONS FOR NOTIFICATION-APPLIANCE CIRCUITS.
6. INCLUDE BATTERY-SIZE CALCULATIONS.
7. INCLUDE INPUT/OUTPUT MATRIX.
8. INCLUDE STATEMENT FROM MANUFACTURER THAT ALL EQUIPMENT AND COMPONENTS HAVE BEEN TESTED AS A SYSTEM AND MEET ALL REQUIREMENTS IN THIS SPECIFICATION AND IN NFPA 72.
9. INCLUDE PERFORMANCE PARAMETERS AND INSTALLATION DETAILS FOR EACH DETECTOR.
10. VERIFY THAT EACH DUCT DETECTOR IS LISTED FOR COMPLETE RANGE OF AIR VELOCITY, TEMPERATURE, AND HUMIDITY POSSIBLE WHEN AIR-HANDLING SYSTEM IS OPERATING.
11. PROVIDE PROGRAM REPORT SHOWING THAT AIR-SAMPLING DETECTOR PIPE LAYOUT BALANCES PNEUMATICALLY WITHIN THE AIRFLOW RANGE OF THE AIR-SAMPLING DETECTOR.
12. INCLUDE PLANS, SECTIONS, AND ELEVATIONS OF HEATING, VENTILATING, AND AIR-CONDITIONING DUCTS, DRAWN TO SCALE; COORDINATE LOCATION OF DUCT SMOKE DETECTORS AND ACCESS TO THEM.
    - a. SHOW CRITICAL DIMENSIONS THAT RELATE TO PLACEMENT AND SUPPORT OF SAMPLING TUBES, DETECTOR HOUSING, AND REMOTE STATUS AND ALARM INDICATORS.
    - b. SHOW FIELD WIRING REQUIRED FOR HVAC UNIT SHUTDOWN ON ALARM.
    - c. SHOW FIELD WIRING AND EQUIPMENT REQUIRED FOR HVAC UNIT SHUTDOWN ON ALARM AND OVERRIDE BY FIREFIGHTERS' CONTROL SYSTEM.
    - d. SHOW FIELD WIRING AND EQUIPMENT REQUIRED FOR HVAC UNIT SHUTDOWN ON ALARM AND OVERRIDE BY FIREFIGHTERS' SMOKE-EVACUATION SYSTEM.
    - e. LOCATE DETECTORS ACCORDING TO MANUFACTURER'S WRITTEN RECOMMENDATIONS.
    - f. SHOW AIR-SAMPLING DETECTOR PIPE ROUTING.
13. INCLUDE VOICE/ALARM SIGNALING-SERVICE EQUIPMENT RACK OR CONSOLE LAYOUT, GROUNDING SCHEMATIC, AMPLIFIER POWER CALCULATION, AND SINGLE-LINE CONNECTION DIAGRAM.
14. INCLUDE FLOOR PLANS TO INDICATE FINAL OUTLET LOCATIONS SHOWING ADDRESS OF EACH ADDRESSABLE DEVICE. SHOW SIZE AND ROUTE OF CABLE AND CONDUITS AND POINT-TO-POINT WIRING DIAGRAMS.

C. GENERAL SUBMITTAL REQUIREMENTS:

1. SUBMITTALS SHALL BE APPROVED BY AUTHORITIES HAVING JURISDICTION PRIOR TO SUBMITTING THEM TO ARCHITECT.
2. SHOP DRAWINGS SHALL BE PREPARED BY PERSONS WITH THE FOLLOWING QUALIFICATIONS:
    - a. TRAINED AND CERTIFIED BY MANUFACTURER IN FIRE-ALARM SYSTEM DESIGN.
    - b. NICET-CERTIFIED, FIRE-ALARM TECHNICIAN; LEVEL III MINIMUM.
    - c. LICENSED OR CERTIFIED BY AUTHORITIES HAVING JURISDICTION.

D. DELEGATED-DESIGN SUBMITTAL: FOR NOTIFICATION APPLIANCES AND SMOKE AND HEAT DETECTORS, IN ADDITION TO SUBMITTALS LISTED ABOVE, INDICATE COMPLIANCE WITH PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA, INCLUDING ANALYSIS DATA SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.

1. DRAWINGS SHOWING THE LOCATION OF EACH NOTIFICATION APPLIANCE AND SMOKE AND HEAT DETECTOR, RATINGS OF EACH, AND INSTALLATION DETAILS AS NEEDED TO COMPLY WITH LISTING CONDITIONS OF THE DEVICE.
2. DESIGN CALCULATIONS: CALCULATE REQUIREMENTS FOR SELECTING THE SPACING AND SENSITIVITY OF DETECTION, COMPLYING WITH NFPA 72. CALCULATE SPACING AND INTENSITIES FOR STROBE SIGNALS AND SOUND-PRESSURE LEVELS FOR AUDIBLE APPLIANCES.
3. INDICATE AUDIBLE APPLIANCES REQUIRED TO PRODUCE SQUARE WAVE SIGNAL PER NFPA 72.
4. INFORMATIONAL SUBMITTALS

E. QUALIFICATION DATA: FOR INSTALLER.

F. SEISMIC QUALIFICATION DATA: CERTIFICATES, FOR FIRE-ALARM CONTROL UNIT, ACCESSORIES, AND COMPONENTS, FROM MANUFACTURER.

1. BASIS FOR CERTIFICATION: INDICATE WHETHER WITHSTAND CERTIFICATION IS BASED ON ACTUAL TEST OF ASSEMBLED COMPONENTS OR ON CALCULATION.
2. DIMENSIONED OUTLINE DRAWINGS OF EQUIPMENT UNIT: IDENTIFY CENTER OF GRAVITY AND LOCATE AND DESCRIBE MOUNTING AND ANCHORAGE PROVISIONS.
3. DETAILED DESCRIPTION OF EQUIPMENT ANCHORAGE DEVICES ON WHICH THE CERTIFICATION IS BASED AND THEIR INSTALLATION REQUIREMENTS.

G. FIELD QUALITY-CONTROL REPORTS.

1.4 SAMPLE WARRANTY: FOR SPECIAL WARRANTY.

1.5 CLOSEOUT SUBMITTALS

A. OPERATION AND MAINTENANCE DATA: FOR FIRE-ALARM SYSTEMS AND COMPONENTS TO INCLUDE IN EMERGENCY, OPERATION, AND MAINTENANCE MANUALS.

1. IN ADDITION TO ITEMS SPECIFIED IN SECTION 017823 "OPERATION AND MAINTENANCE DATA," INCLUDE THE FOLLOWING AND DELIVER COPIES TO AUTHORITIES HAVING JURISDICTION:
    - a. COMPLY WITH THE "RECORDS" SECTION OF THE "INSPECTION, TESTING AND MAINTENANCE" CHAPTER IN NFPA 72.
    - b. PROVIDE "FIRE ALARM AND EMERGENCY COMMUNICATIONS SYSTEM RECORD OF COMPLETION DOCUMENTS" ACCORDING TO THE "COMPLETION DOCUMENTS" ARTICLE IN THE "DOCUMENTATION" SECTION OF THE "FUNDAMENTALS" CHAPTER IN NFPA 72.
    - c. COMPLETE WIRING DIAGRAMS SHOWING CONNECTIONS BETWEEN ALL DEVICES AND EQUIPMENT. EACH CONDUCTOR SHALL BE NUMBERED AT EVERY JUNCTION POINT WITH INDICATION OF ORIGINATION AND TERMINATION POINTS.
    - d. RISER DIAGRAM.
    - e. DEVICE ADDRESSES.
    - f. AIR-SAMPLING SYSTEM SAMPLE PORT LOCATIONS AND MODELING PROGRAM REPORT SHOWING LAYOUT MEETS PERFORMANCE CRITERIA.
    - g. RECORD COPY OF SITE-SPECIFIC SOFTWARE.
    - h. PROVIDE "INSPECTION AND TESTING FORM" ACCORDING TO THE "INSPECTION, TESTING AND MAINTENANCE" CHAPTER IN NFPA 72, AND INCLUDE THE FOLLOWING:
    - 1) EQUIPMENT TESTED.
    - 2) FREQUENCY OF TESTING OF INSTALLED COMPONENTS.
    - 3) FREQUENCY OF INSPECTION OF INSTALLED COMPONENTS.
    - 4) REQUIREMENTS AND RECOMMENDATIONS RELATED TO RESULTS OF MAINTENANCE.
    - 5) MANUFACTURER'S USER TRAINING MANUALS.
    - i. MANUFACTURER'S REQUIRED MAINTENANCE RELATED TO SYSTEM WARRANTY REQUIREMENTS.
    - j. ABBREVIATED OPERATING INSTRUCTIONS FOR MOUNTING AT FIRE-ALARM CONTROL UNIT AND EACH ANNUNCIATOR UNIT.

B. SOFTWARE AND FIRMWARE OPERATIONAL DOCUMENTATION:

1. SOFTWARE OPERATING AND UPGRADE MANUALS.
2. PROGRAM SOFTWARE BACKUP: ON MAGNETIC MEDIA OR COMPACT DISK, COMPLETE WITH DATA FILES.
3. DEVICE ADDRESS LIST.
4. PRINTOUT OF SOFTWARE APPLICATION AND GRAPHIC SCREENS.

1.2 MAINTENANCE MATERIAL SUBMITTALS

A. FURNISH EXTRA MATERIALS THAT MATCH PRODUCTS INSTALLED AND THAT ARE PACKAGED WITH PROTECTIVE COVERING FOR STORAGE AND IDENTIFIED WITH LABELS DESCRIBING CONTENTS.

5. LAMPS FOR REMOTE INDICATING LAMP UNITS: QUANTITY EQUAL TO 10 PERCENT OF AMOUNT INSTALLED, BUT NO FEWER THAN ONE UNIT.
6. LAMPS FOR STROBE UNITS: QUANTITY EQUAL TO 10 PERCENT OF AMOUNT INSTALLED, BUT NO FEWER THAN ONE UNIT.
7. SMOKE DETECTORS, FIRE DETECTORS, AND FLAME DETECTORS: QUANTITY EQUAL TO 10 PERCENT OF AMOUNT OF EACH TYPE INSTALLED, BUT NO FEWER THAN ONE UNIT OF EACH TYPE.
8. DETECTOR BASES: QUANTITY EQUAL TO TWO PERCENT OF AMOUNT OF EACH TYPE INSTALLED, BUT NO FEWER THAN ONE UNIT OF EACH TYPE.
9. KEYS AND TOOLS: ONE EXTRA SET FOR ACCESS TO LOCKED OR TAMPERPROOFED COMPONENTS.
10. AUDIBLE AND VISUAL NOTIFICATION APPLIANCES: ONE OF EACH TYPE INSTALLED.
11. FUSES: TWO OF EACH TYPE INSTALLED IN THE SYSTEM. PROVIDE IN A BOX OR CABINET WITH COMPARTMENTS MARKED WITH FUSE TYPES AND SIZES.
12. FILTERS FOR AIR-SAMPLING DETECTORS: QUANTITY EQUAL TO TWO PERCENT OF AMOUNT OF EACH TYPE INSTALLED, BUT NO FEWER THAN ONE UNIT OF EACH TYPE.
13. AIR-SAMPLING FAN: QUANTITY EQUAL TO ONE FOR EVERY FIVE DETECTORS, BUT NO FEWER THAN ONE UNIT OF EACH TYPE.

1.3 QUALITY ASSURANCE

B. INSTALLER QUALIFICATIONS: PERSONNEL SHALL BE TRAINED AND CERTIFIED BY MANUFACTURER FOR INSTALLATION OF UNITS REQUIRED FOR THIS PROJECT.

C. INSTALLER QUALIFICATIONS: INSTALLATION SHALL BE BY PERSONNEL CERTIFIED BY NICET AS FIRE-ALARM LEVEL II TECHNICIAN.

D. NFPA CERTIFICATION: OBTAIN CERTIFICATION ACCORDING TO NFPA 72 BY AN NRTL (NATIONALLY RECOGNIZED TESTING LABORATORY).

E. NFPA CERTIFICATION: OBTAIN CERTIFICATION ACCORDING TO NFPA 72 BY A UL-LISTED ALARM COMPANY.

F. NFPA CERTIFICATION: OBTAIN CERTIFICATION ACCORDING TO NFPA 72 IN THE FORM OF A PLACARD BY AN FM GLOBAL-APPROVED ALARM COMPANY.

G. NFPA CERTIFICATION: OBTAIN CERTIFICATION ACCORDING TO NFPA 72.

1.4 PROJECT CONDITIONS

A. PERFORM A FULL TEST OF THE EXISTING SYSTEM PRIOR TO STARTING WORK. DOCUMENT ANY EQUIPMENT OR COMPONENTS NOT FUNCTIONING AS DESIGNED.

B. INTERRUPTION OF EXISTING FIRE-ALARM SERVICE: DO NOT INTERRUPT FIRE-ALARM SERVICE TO FACILITIES OCCUPIED BY OWNER OR OTHERS UNLESS PERMITTED UNDER THE FOLLOWING CONDITIONS AND THEN ONLY AFTER ARRANGING TO PROVIDE TEMPORARY GUARD SERVICE ACCORDING TO REQUIREMENTS INDICATED:

1. NOTIFY ARCHITECT AND OWNER NO FEWER THAN SEVEN DAYS IN ADVANCE OF PROPOSED INTERRUPTION OF FIRE-ALARM SERVICE.
2. DO NOT PROCEED WITH INTERRUPTION OF FIRE-ALARM SERVICE WITHOUT OWNER'S WRITTEN PERMISSION.

C. USE OF DEVICES DURING CONSTRUCTION: PROTECT DEVICES DURING CONSTRUCTION UNLESS DEVICES ARE PLACED IN SERVICE TO PROTECT THE FACILITY DURING CONSTRUCTION.

1.5 SEQUENCING AND SCHEDULING

D. EXISTING FIRE-ALARM EQUIPMENT: MAINTAIN EXISTING EQUIPMENT FULLY OPERATIONAL UNTIL NEW EQUIPMENT HAS BEEN TESTED AND ACCEPTED. AS NEW EQUIPMENT IS INSTALLED, LABEL IT "NOT IN SERVICE" UNTIL IT IS ACCEPTED. REMOVE LABELS FROM NEW EQUIPMENT WHEN PUT INTO SERVICE, AND LABEL EXISTING FIRE-ALARM EQUIPMENT "NOT IN SERVICE" UNTIL REMOVED FROM THE BUILDING.

E. EQUIPMENT REMOVAL: AFTER ACCEPTANCE OF NEW FIRE-ALARM SYSTEM, REMOVE EXISTING DISCONNECTED FIRE-ALARM EQUIPMENT AND WIRING.

1.6 WARRANTY

A. SPECIAL WARRANTY: MANUFACTURER AGREES TO REPAIR OR REPLACE FIRE-ALARM SYSTEM EQUIPMENT AND COMPONENTS THAT FAIL IN MATERIALS OR WORKMANSHIP WITHIN SPECIFIED WARRANTY PERIOD..

1. WARRANTY EXTENT: ALL EQUIPMENT AND COMPONENTS NOT COVERED IN THE MAINTENANCE SERVICE AGREEMENT.
2. WARRANTY PERIOD: FIVE YEARS FROM DATE OF SUBSTANTIAL COMPLETION.

PART 2 - PRODUCTS

2.1 SYSTEM DESCRIPTION

A. SOURCE LIMITATIONS FOR FIRE-ALARM SYSTEM AND COMPONENTS: COMPONENTS SHALL BE COMPATIBLE WITH, AND OPERATE AS AN EXTENSION OF, EXISTING SYSTEM. PROVIDE SYSTEM MANUFACTURER'S CERTIFICATION THAT ALL COMPONENTS PROVIDED HAVE BEEN TESTED AS, AND WILL OPERATE AS, A SYSTEM.

B. NONCODED, UL-CERTIFIED ADDRESSABLE SYSTEM, WITH MULTIPLEXED SIGNAL TRANSMISSION AND HORN/STROBE EVACUATION.

C. AUTOMATIC SENSITIVITY CONTROL OF CERTAIN SMOKE DETECTORS.

D. ALL COMPONENTS PROVIDED SHALL BE LISTED FOR USE WITH THE SELECTED SYSTEM.

E. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.

2.2 SYSTEMS OPERATIONAL DESCRIPTION

A. FIRE-ALARM SIGNAL SHALL INITIATE THE FOLLOWING ACTIONS:

1. CONTINUOUSLY OPERATE ALARM NOTIFICATION APPLIANCES.
2. IDENTIFY ALARM AND SPECIFIC INITIATING DEVICE AT FIRE-ALARM CONTROL UNIT, CONNECTED NETWORK CONTROL PANELS, OFF-PREMISES NETWORK CONTROL PANELS,.
3. TRANSMIT AN ALARM SIGNAL TO THE REMOTE ALARM RECEIVING STATION.
4. RELEASE FIRE AND SMOKE DOORS HELD OPEN BY MAGNETIC DOOR HOLDERS.
5. ACTIVATE VOICE/ALARM COMMUNICATION SYSTEM.
6. SWITCH HEATING, VENTILATING, AND AIR-CONDITIONING EQUIPMENT CONTROLS TO FIRE-ALARM MODE.
7. ACTIVATE SMOKE-CONTROL SYSTEM (SMOKE MANAGEMENT) AT FIREFIGHTERS' SMOKE-CONTROL SYSTEM PANEL.
8. ACTIVATE STAIRWELL AND ELEVATOR-SHAFT PRESSURIZATION SYSTEMS.
9. CLOSE SMOKE DAMPERS IN AIR DUCTS OF DESIGNATED AIR-CONDITIONING DUCT SYSTEMS.
10. ACTIVATE PREACTION SYSTEM.
11. ACTIVATE EMERGENCY LIGHTING CONTROL.
12. ACTIVATE EMERGENCY SHUTOFFS FOR GAS AND FUEL SUPPLIES.
13. RECORD EVENTS IN THE SYSTEM MEMORY.
14. INDICATE DEVICE IN ALARM ON THE GRAPHIC ANNUNCIATOR.

C. SUPERVISORY SIGNAL INITIATION SHALL BE BY ONE OR MORE OF THE FOLLOWING DEVICES AND ACTIONS:.

1. VALVE SUPERVISORY SWITCH.
2. HIGH- OR LOW-AIR-PRESSURE SWITCH OF A DRY-PIPE OR PREACTION SPRINKLER SYSTEM.
3. ALERT AND ACTION SIGNALS OF AIR-SAMPLING DETECTOR SYSTEM.
4. FIRE PUMP RUNNING.
5. FIRE-PUMP LOSS OF POWER.
6. FIRE-PUMP POWER PHASE REVERSAL.
7. INDEPENDENT FIRE-DETECTION AND -SUPPRESSION SYSTEMS.
8. USER DISABLING OF ZONES OR INDIVIDUAL DEVICES.
9. LOSS OF COMMUNICATION WITH ANY PANEL ON THE NETWORK.

E. SYSTEM SUPERVISORY SIGNAL ACTIONS:

4. INITIATE NOTIFICATION APPLIANCES.
5. IDENTIFY SPECIFIC DEVICE INITIATING THE EVENT AT FIRE-ALARM CONTROL UNIT, CONNECTED NETWORK CONTROL PANELS, OFF-PREMISES NETWORK CONTROL PANEL.
6. RECORD THE EVENT ON SYSTEM PRINTER.
7. AFTER A TIME DELAY OF 200 SECONDS, TRANSMIT A TROUBLE OR SUPERVISORY SIGNAL TO THE REMOTE ALARM RECEIVING STATION.
8. TRANSMIT SYSTEM STATUS TO BUILDING MANAGEMENT SYSTEM.
9. DISPLAY SYSTEM STATUS ON GRAPHIC ANNUNCIATOR.

2.3 PERFORMANCE REQUIREMENTS

F. SEISMIC PERFORMANCE: FIRE-ALARM CONTROL UNIT AND RACEWAYS SHALL WITHSTAND THE EFFECTS OF EARTHQUAKE MOTIONS DETERMINED ACCORDING TO ASCE/SEI 7.

10. THE TERM "WITHSTAND" MEANS "THE UNIT WILL REMAIN IN PLACE WITHOUT SEPARATION OF ANY PARTS FROM THE DEVICE WHEN SUBJECTED TO THE SEISMIC FORCES SPECIFIED AND THE UNIT WILL BE FULLY OPERATIONAL AFTER THE SEISMIC EVENT."

2.4 FIRE-ALARM CONTROL UNIT

A. GENERAL REQUIREMENTS FOR FIRE-ALARM CONTROL UNIT:

1. FIELD-PROGRAMMABLE, MICROPROCESSOR-BASED, MODULAR, POWER-LIMITED DESIGN WITH ELECTRONIC MODULES, COMPLYING WITH UL 864.
    - a. SYSTEM SOFTWARE AND PROGRAMS SHALL BE HELD IN NONVOLATILE FLASH, ELECTRICALLY ERASABLE, PROGRAMMABLE, READ-ONLY MEMORY, RETAINING THE INFORMATION THROUGH FAILURE OF PRIMARY AND SECONDARY POWER SUPPLIES.
    - b. INCLUDE A REAL-TIME CLOCK FOR TIME ANNOTATION OF EVENTS ON THE EVENT RECORDER AND PRINTER.
    - c. PROVIDE COMMUNICATION BETWEEN THE FACP AND REMOTE CIRCUIT INTERFACE PANELS, ANNUNCIATORS, AND DISPLAYS.
    - d. THE FACP SHALL BE LISTED FOR CONNECTION TO A CENTRAL-STATION SIGNALING SYSTEM SERVICE.
    - e. PROVIDE NONVOLATILE MEMORY FOR SYSTEM DATABASE, LOGIC, AND OPERATING SYSTEM AND EVENT HISTORY. THE SYSTEM SHALL REQUIRE NO MANUAL INPUT TO INITIALIZE IN THE EVENT OF A COMPLETE POWER DOWN CONDITION. THE FACP SHALL PROVIDE A MINIMUM 500-EVENT HISTORY LOG.
2. ADDRESSABLE INITIATION DEVICE CIRCUITS: THE FACP SHALL INDICATE WHICH COMMUNICATION ZONES HAVE BEEN SILENCED AND SHALL PROVIDE SELECTIVE SILENCING OF ALARM NOTIFICATION APPLIANCE BY BUILDING COMMUNICATION ZONE.
3. ADDRESSABLE CONTROL CIRCUITS FOR OPERATION OF NOTIFICATION APPLIANCES AND MECHANICAL EQUIPMENT: THE FACP SHALL BE LISTED FOR RELEASING SERVICE.

C. ALPHANUMERIC DISPLAY AND SYSTEM CONTROLS: ARRANGED FOR INTERFACE BETWEEN HUMAN OPERATOR AT FIRE-ALARM CONTROL UNIT AND ADDRESSABLE SYSTEM COMPONENTS INCLUDING ANNUNCIATION AND SUPERVISION. DISPLAY ALARM, SUPERVISORY, AND COMPONENT STATUS MESSAGES AND THE PROGRAMMING AND CONTROL MENU.

4. ANNUNCIATOR AND DISPLAY: LIQUID-CRYSTAL TYPE, 80 CHARACTERS, MINIMUM.
5. KEYPAD: ARRANGED TO PERMIT ENTRY AND EXECUTION OF PROGRAMMING, DISPLAY, AND CONTROL COMMANDS.

D. ALPHANUMERIC DISPLAY AND SYSTEM CONTROLS: ARRANGED FOR INTERFACE BETWEEN HUMAN OPERATOR AT FIRE-ALARM CONTROL UNIT AND ADDRESSABLE SYSTEM COMPONENTS INCLUDING ANNUNCIATION AND SUPERVISION. DISPLAY ALARM, SUPERVISORY, AND COMPONENT STATUS MESSAGES AND THE PROGRAMMING AND CONTROL MENU.

6. ANNUNCIATOR AND DISPLAY: LIQUID-CRYSTAL TYPE, TWO LINE(S) OF 40 CHARACTERS, MINIMUM.
7. KEYPAD: ARRANGED TO PERMIT ENTRY AND EXECUTION OF PROGRAMMING, DISPLAY, AND CONTROL COMMANDS AND TO INDICATE CONTROL COMMANDS TO BE ENTERED INTO THE SYSTEM FOR CONTROL OF SMOKE-DETECTOR SENSITIVITY AND OTHER PARAMETERS.

E. INITIATING-DEVICE, NOTIFICATION-APPLIANCE, AND SIGNALING-LINE CIRCUITS:

1. PATHWAY CLASS DESIGNATIONS: NFPA 72, CLASS A.
2. PATHWAY SURVIVABILITY: LEVEL 0.
3. INSTALL NO MORE THAN 50 ADDRESSABLE DEVICES ON EACH SIGNALING-LINE CIRCUIT.
4. SERIAL INTERFACES:
    - a. ONE DEDICATED RS 485 PORT FOR CENTRAL-STATION OPERATION USING POINT ID DACT.
    - b. ONE RS 485 PORT FOR REMOTE ANNUNCIATORS, ETHERNET MODULE, OR MULTI-INTERFACE MODULE (PRINTER PORT).
    - c. ONE USB PORT FOR PC CONFIGURATION.
    - d. ONE RS 232 PORT FOR VESDA HLI CONNECTION.
    - e. ONE RS 232 PORT FOR VOICE EVACUATION INTERFACE.

F. SMOKE-ALARM VERIFICATION:

1. INITIATE AUDIBLE AND VISIBLE INDICATION OF AN "ALARM-VERIFICATION" SIGNAL AT FIRE-ALARM CONTROL UNIT.
2. ACTIVATE AN APPROVED "ALARM-VERIFICATION" SEQUENCE AT FIRE-ALARM CONTROL UNIT AND DETECTOR.
3. RECORD EVENTS BY THE SYSTEM PRINTER.
4. SOUND GENERAL ALARM IF THE ALARM IS VERIFIED.
5. CANCEL FIRE-ALARM CONTROL UNIT INDICATION AND SYSTEM RESET IF THE ALARM IS NOT VERIFIED.

G. NOTIFICATION-APPLIANCE CIRCUIT:

1. AUDIBLE APPLIANCES SHALL SOUND IN A THREE-PULSE TEMPORAL PATTERN, AS DEFINED IN NFPA 72.
2. WHERE NOTIFICATION APPLIANCES PROVIDE SIGNALS TO SLEEPING AREAS, THE ALARM SIGNAL SHALL BE A 520-HZ SQUARE WAVE WITH AN INTENSITY 15 DB ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR 5 DB ABOVE THE MAXIMUM SOUND LEVEL, OR AT LEAST 75 DBA, WHICHEVER IS GREATER, MEASURED AT THE PILLOW.
3. VISUAL ALARM APPLIANCES SHALL FLASH IN SYNCHRONIZATION WHERE MULTIPLE APPLIANCES ARE IN THE SAME FIELD OF VIEW, AS DEFINED IN NFPA 72.

H. REMOTE SMOKE-DETECTOR SENSITIVITY ADJUSTMENT: CONTROLS SHALL SELECT SPECIFIC ADDRESSABLE SMOKE DETECTORS FOR ADJUSTMENT, DISPLAY THEIR CURRENT STATUS AND SENSITIVITY SETTINGS, AND CHANGE THOSE SETTINGS. ALLOW CONTROLS TO BE USED TO PROGRAM REPETITIVE, TIME-SCHEDULED, AND AUTOMATED CHANGES IN SENSITIVITY OF SPECIFIC DETECTOR GROUPS. RECORD SENSITIVITY ADJUSTMENTS AND SENSITIVITY-ADJUSTMENT SCHEDULE CHANGES IN SYSTEM MEMORY, AND PRINT OUT THE FINAL ADJUSTED VALUES ON SYSTEM PRINTER.

I. TRANSMISSION TO REMOTE ALARM RECEIVING STATION: AUTOMATICALLY TRANSMIT ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO A REMOTE ALARM STATION.

J. VOICE/ALARM SIGNALING SERVICE: CENTRAL EMERGENCY COMMUNICATION SYSTEM WITH REDUNDANT MICROPHONES, PREAMPLIFIERS, AMPLIFIERS, AND TONE GENERATORS PROVIDED AS A SPECIAL MODULE THAT IS PART OF FIRE-ALARM CONTROL UNIT.

1. INDICATE NUMBER OF ALARM CHANNELS FOR AUTOMATIC, SIMULTANEOUS TRANSMISSION OF DIFFERENT ANNOUNCEMENTS TO DIFFERENT ZONES OR FOR MANUAL TRANSMISSION OF ANNOUNCEMENTS BY USE OF THE CENTRAL-CONTROL MICROPHONE. AMPLIFIERS SHALL COMPLY WITH UL 1711.
    - h. ALLOW THE APPLICATION OF, AND EVACUATION SIGNAL TO, INDICATED NUMBER OF ZONES AND, AT THE SAME TIME, ALLOW VOICE PAGING TO THE OTHER ZONES SELECTIVELY OR IN ANY COMBINATION.
    - i. PROGRAMMABLE TONE AND MESSAGE SEQUENCE SELECTION.
    - j. STANDARD DIGITALLY RECORDED MESSAGES FOR "EVACUATION" AND "ALL CLEAR."
    - k. GENERATE TONES TO BE SEQUENCED WITH AUDIO MESSAGES OF TYPE RECOMMENDED BY NFPA 72 AND THAT ARE COMPATIBLE WITH TONE PATTERNS OF NOTIFICATION-APPLIANCE CIRCUITS OF FIRE-ALARM CONTROL UNIT.
2. STATUS ANNUNCIATOR: INDICATE THE STATUS OF VARIOUS VOICE/ALARM SPEAKER ZONES AND THE STATUS OF FIREFIGHTERS' TWO-WAY TELEPHONE COMMUNICATION ZONES.
3. PREAMPLIFIERS, AMPLIFIERS, AND TONE GENERATORS SHALL AUTOMATICALLY TRANSFER TO BACKUP UNITS, ON PRIMARY EQUIPMENT FAILURE.

K. PRINTOUT OF EVENTS: ON RECEIPT OF SIGNAL, PRINT ALARM, SUPERVISORY, AND TROUBLE EVENTS. IDENTIFY ZONE, DEVICE, AND FUNCTION. INCLUDE TYPE OF SIGNAL (ALARM, SUPERVISORY, OR TROUBLE) AND DATE AND TIME OF OCCURRENCE. DIFFERENTIATE ALARM SIGNALS FROM ALL OTHER PRINTED INDICATIONS. ALSO, PRINT SYSTEM RESET EVENT, INCLUDING SAME INFORMATION FOR DEVICE, LOCATION, DATE, AND TIME. COMMANDS INITIATE THE PRINTING OF A LIST OF EXISTING ALARM, SUPERVISORY, AND TROUBLE CONDITIONS IN THE SYSTEM AND A HISTORICAL LOG OF EVENTS.

L. PRIMARY POWER: 24-V DC OBTAINED FROM 120-V AC SERVICE AND A POWER-SUPPLY MODULE. INITIATING DEVICES, NOTIFICATION APPLIANCES, SIGNALING LINES, TROUBLE SIGNALS, SUPERVISORY SIGNALS SUPERVISORY AND DIGITAL ALARM COMMUNICATOR TRANSMITTERS AND DIGITAL ALARM RADIO TRANSMITTERS SHALL BE POWERED BY 24-V DC SOURCE.

1. ALARM CURRENT DRAW OF ENTIRE FIRE-ALARM SYSTEM SHALL NOT EXCEED 80 PERCENT OF THE POWER-SUPPLY MODULE RATING.

O. SECONDARY POWER: 24-V DC SUPPLY SYSTEM WITH BATTERIES, AUTOMATIC BATTERY CHARGER, AND AUTOMATIC TRANSFER SWITCH.

1. BATTERIES: SEALED, VALVE-REGULATED, RECOMBINANT LEAD ACID.

P. INSTRUCTIONS: COMPUTER PRINTOUT OR TYPEWRITTEN INSTRUCTION CARD MOUNTED BEHIND A PLASTIC OR GLASS COVER IN A STAINLESS-STEEL OR ALUMINUM FRAME. INCLUDE INTERPRETATION AND DESCRIBE APPROPRIATE RESPONSE FOR DISPLAYS AND SIGNALS. BRIEFLY DESCRIBE THE FUNCTIONAL OPERATION OF THE SYSTEM UNDER NORMAL, ALARM, AND TROUBLE CONDITIONS.

2.5 PREACTION SYSTEM

A. INITIATE PRESIGNAL ALARM: THIS FUNCTION SHALL CAUSE AN AUDIBLE AND VISUAL ALARM AND INDICATION TO BE PROVIDED AT THE FACP. ACTIVATION OF AN INITIATION DEVICE CONNECTED AS PART OF A PREACTION SYSTEM SHALL BE ANNUNCIATED AT THE FACP ONLY, WITHOUT ACTIVATION OF THE GENERAL EVACUATION ALARM.

B. GENERAL REQUIREMENTS FOR MANUAL FIRE-ALARM BOXES: COMPLY WITH UL 38. BOXES SHALL BE FINISHED IN RED WITH MOLDED, RAISED-LETTER OPERATING INSTRUCTIONS IN CONTRASTING COLOR; SHALL SHOW VISIBLE INDICATION OF OPERATION; AND SHALL BE MOUNTED ON RECESSED OUTLET BOX. IF INDICATED AS SURFACE MOUNTED, PROVIDE MANUFACTURER'S SURFACE BACK BOX.

2. SINGLE-ACTION MECHANISM, BREAKING-GLASS OR PLASTIC-ROD TYPE; WITH INTEGRAL ADDRESSABLE MODULE ARRANGED TO COMMUNICATE MANUAL-STATION STATUS (NORMAL, ALARM, OR TROUBLE) TO FIRE-ALARM CONTROL UNIT.
3. STATION RESET: KEY- OR WRENCH-OPERATED SWITCH.
4. INDOOR PROTECTIVE SHIELD: FACTORY-FABRICATED, CLEAR PLASTIC ENCLOSURE HINGED AT THE TOP TO PERMIT LIFTING FOR ACCESS TO INITIATE AN ALARM. LIFTING THE COVER ACTUATES AN INTEGRAL BATTERY-POWERED AUDIBLE HORN INTENDED TO DISCOURAGE FALSE-ALARM OPERATION.

2.6 SYSTEM SMOKE DETECTORS

A. GENERAL REQUIREMENTS FOR SYSTEM SMOKE DETECTORS:

1. COMPLY WITH UL 268; OPERATING AT 24-V DC, NOMINAL.
2. DETECTORS SHALL BE FOUR-WIRE TYPE.
3. INTEGRAL ADDRESSABLE MODULE: ARRANGED TO COMMUNICATE DETECTOR STATUS (NORMAL, ALARM, OR TROUBLE) TO FIRE-ALARM CONTROL UNIT.
4. BASE MOUNTING: DETECTOR AND ASSOCIATED ELECTRONIC COMPONENTS SHALL BE MOUNTED IN A TWIST-LOCK MODULE THAT CONNECTS TO A FIXED BASE. PROVIDE TERMINALS IN THE FIXED BASE FOR CONNECTION TO BUILDING WIRING.
    - a. RATE-OF-RISE TEMPERATURE CHARACTERISTIC OF COMBINATION SMOKE- AND HEAT-DETECTION UNITS SHALL BE SELECTABLE AT FIRE-ALARM CONTROL UNIT FOR 15 OR 20 DEG F (8 OR 11 DEG C) PER MINUTE.
    - b. FIXED-TEMPERATURE SENSING CHARACTERISTIC OF COMBINATION SMOKE- AND HEAT-DETECTION UNITS SHALL BE INDEPENDENT OF RATE-OF-RISE SENSING AND SHALL BE SETTABLE AT FIRE-ALARM CONTROL UNIT TO OPERATE AT 135 OR 155 DEG F (57 OR 68 DEG C).
    - c. MULTIPLE LEVELS OF DETECTION SENSITIVITY FOR EACH SENSOR.
    - d. SENSITIVITY LEVELS BASED ON TIME OF DAY.

B. PHOTOELECTRIC SMOKE DETECTORS:

1. DETECTOR ADDRESS SHALL BE ACCESSIBLE FROM FIRE-ALARM CONTROL UNIT AND SHALL BE ABLE TO IDENTIFY THE DETECTOR'S LOCATION WITHIN THE SYSTEM AND ITS SENSITIVITY SETTING.
2. AN OPERATOR AT FIRE-ALARM CONTROL UNIT, HAVING THE DESIGNATED ACCESS LEVEL, SHALL BE ABLE TO MANUALLY ACCESS THE FOLLOWING FOR EACH DETECTOR:
    - a. PRIMARY STATUS.
    - b. DEVICE TYPE.
    - c. PRESENT AVERAGE VALUE.
    - d. PRESENT SENSITIVITY SELECTED.
    - e. SENSOR RANGE (NORMAL, DIRTY, ETC.).

C. PROJECTED BEAM LIGHT SOURCE AND RECEIVER: DESIGNED TO ACCOMMODATE SMALL ANGULAR MOVEMENTS AND CONTINUE TO OPERATE AND NOT CAUSE NUISANCE ALARMS.

D. DETECTOR ADDRESS: ACCESSIBLE FROM FIRE-ALARM CONTROL UNIT AND ABLE TO IDENTIFY THE DETECTOR'S LOCATION WITHIN THE SYSTEM AND ITS SENSITIVITY SETTING.

E. AN OPERATOR AT FIRE-ALARM CONTROL UNIT, HAVING THE DESIGNATED ACCESS LEVEL, SHALL BE ABLE TO MANUALLY ACCESS THE FOLLOWING FOR EACH DETECTOR:

1. PRIMARY STATUS.
2. DEVICE TYPE.
3. PRESENT AVERAGE VALUE.
4. PRESENT SENSITIVITY SELECTED.
5. SENSOR RANGE (NORMAL, DIRTY, ETC.).
6. CARBON MONOXIDE DETECTORS

F. TEST BUTTON TESTS ALL SENSORS IN THE DETECTOR.

G. AN OPERATOR AT FIRE-ALARM CONTROL UNIT, HAVING THE DESIGNATED ACCESS LEVEL, SHALL BE ABLE TO MANUALLY ACCESS THE FOLLOWING FOR EACH DETECTOR:

1. PRIMARY STATUS.
2. DEVICE TYPE.
3. PRESENT SENSITIVITY SELECTED.
4. SENSOR RANGE (NORMAL, DIRTY, ETC.).

H. SENSORS: THE DETECTOR SHALL BE COMPRISED OF FOUR SENSING ELEMENTS INCLUDING A SMOKE SENSOR, A CARBON MONOXIDE SENSOR, AN INFRARED SENSOR, AND A HEAT SENSOR.

1. SMOKE SENSOR SHALL BE PHOTOELECTRIC TYPE AS DESCRIBED IN "SYSTEM SMOKE DETECTORS" ARTICLE.
2. CARBON MONOXIDE SENSOR SHALL BE AS DESCRIBED IN "CARBON MONOXIDE DETECTORS" ARTICLE.
3. HEAT SENSOR SHALL BE AS DESCRIBED IN "HEAT DETECTORS" ARTICLE.
4. EACH SENSOR SHALL BE SEPARATELY LISTED ACCORDING TO REQUIREMENTS FOR ITS DETECTOR TYPE.

I. SINGLE-STATION DUCT SMOKE DETECTORS:

1. COMPLY WITH UL 268A; OPERATING AT 120-V AC.
2. SENSOR: LED OR INFRARED LIGHT SOURCE WITH MATCHING SILICON-CELL RECEIVER.
    - a. DETECTOR SENSITIVITY: SMOKE OBSCURATION BETWEEN 2.5 AND 3.5 PERCENT/FOOT (0.008 AND 0.011 PERCENT/MM) WHEN TESTED ACCORDING TO UL 268A.
3. BASE MOUNTING: DETECTOR AND ASSOCIATED ELECTRONIC COMPONENTS SHALL BE MOUNTED IN A TWIST-LOCK MODULE THAT CONNECTS TO A FIXED BASE. THE FIXED BASE SHALL BE DESIGNED FOR MOUNTING DIRECTLY TO AIR DUCT. PROVIDE TERMINALS IN THE FIXED BASE FOR CONNECTION TO BUILDING WIRING.
    - a. WEATHERPROOF DUCT HOUSING ENCLOSURE: NEMA 250, TYPE 4X; LISTED FOR USE WITH THE SUPPLIED DETECTOR.
4. SAMPLING TUBES: DESIGN AND DIMENSIONS AS RECOMMENDED BY MANUFACTURER FOR SPECIFIC DUCT SIZE, AIR VELOCITY, AND INSTALLATION CONDITIONS WHERE APPLIED.
5. RELAY FAN SHUTDOWN: RATED TO INTERRUPT FAN MOTOR-CONTROL CIRCUIT.

2.7 HEAT DETECTORS

A. GENERAL REQUIREMENTS FOR HEAT DETECTORS: COMPLY WITH UL 521.

1. TEMPERATURE SENSORS SHALL TEST FOR AND COMMUNICATE THE SENSITIVITY RANGE OF THE DEVICE.

B. HEAT DETECTOR, COMBINATION TYPE: ACTUATED BY EITHER A FIXED TEMPERATURE OF 135 DEG F (57 DEG C) OR A RATE OF RISE THAT EXCEEDS 15 DEG F (8 DEG C) PER MINUTE UNLESS OTHERWISE INDICATED.

1. MOUNTING: ADAPTER PLATE FOR OUTLET BOX MOUNTING.
2. INTEGRAL ADDRESSABLE MODULE: ARRANGED TO COMMUNICATE DETECTOR STATUS (NORMAL, ALARM, OR TROUBLE) TO FIRE-ALARM CONTROL UNIT.

C. HEAT DETECTOR, FIXED-TEMPERATURE TYPE: ACTUATED BY TEMPERATURE THAT EXCEEDS A FIXED TEMPERATURE OF 190 DEG F (88 DEG C).

1. MOUNTING: ADAPTER PLATE FOR OUTLET BOX MOUNTING.
2. INTEGRAL ADDRESSABLE MODULE: ARRANGED TO COMMUNICATE DETECTOR STATUS (NORMAL, ALARM, OR TROUBLE) TO FIRE-ALARM CONTROL UNIT.

D. SAMPLING HOLES:

1. SAMPLING HOLES OF 5/64 INCH (2 MM), OR OTHER SIZED HOLES PER MANUFACTURER'S WRITTEN INSTRUCTIONS, SHALL BE SEPARATED BY NOT MORE THAN THE MAXIMUM DISTANCE ALLOWABLE FOR CONVENTIONAL SMOKE DETECTORS. INTERVALS MAY VARY ACCORDING TO CALCULATIONS.
2. FOLLOW MANUFACTURER'S WRITTEN RECOMMENDATIONS TO DETERMINE THE NUMBER AND SPACING OF SAMPLING POINTS AND THE DISTANCE FROM SAMPLING POINTS TO CEILING OR ROOF STRUCTURE AND TO FORCED VENTILATION SYSTEMS.
3. EACH SAMPLING POINT SHALL BE IDENTIFIED BY AN APPLIED DECAL.

2.8 NOTIFICATION APPLIANCES

A. GENERAL REQUIREMENTS FOR NOTIFICATION APPLIANCES: INDIVIDUALLY ADDRESSED, CONNECTED TO A SIGNALING-LINE CIRCUIT, EQUIPPED FOR MOUNTING AS INDICATED, AND WITH SCREW TERMINALS FOR SYSTEM CONNECTIONS.

B. GENERAL REQUIREMENTS FOR NOTIFICATION APPLIANCES: CONNECTED TO NOTIFICATION-APPLIANCE SIGNAL CIRCUITS, ZONED AS INDICATED, EQUIPPED FOR MOUNTING AS INDICATED, AND WITH SCREW TERMINALS FOR SYSTEM CONNECTIONS.

1. COMBINATION DEVICES: FACTORY-INTEGRATED AUDIBLE AND VISIBLE DEVICES IN A SINGLE-MOUNTING ASSEMBLY, EQUIPPED FOR MOUNTING AS INDICATED, AND WITH SCREW TERMINALS FOR SYSTEM CONNECTIONS.

C. CHIMES, LOW-LEVEL OUTPUT: VIBRATING TYPE, 75-DBA MINIMUM RATED OUTPUT.

D. CHIMES, HIGH-LEVEL OUTPUT: VIBRATING TYPE, 81-DBA MINIMUM RATED OUTPUT.

E. HORNS: ELECTRIC-VIBRATING-POLARIZED TYPE, 24-V DC; WITH PROVISION FOR HOUSING THE OPERATING MECHANISM BEHIND A GRILLE. COMPLY WITH UL 464. HORNS SHALL PRODUCE A SOUND-PRESSURE LEVEL OF 90 DBA, MEASURED 10 FEET (3 M) FROM THE HORN, USING THE CODED SIGNAL PRESCRIBED IN UL 464 TEST PROTOCOL.

F. VISIBLE NOTIFICATION APPLIANCES: XENON STROBE LIGHTS COMPLYING WITH UL 1971, WITH CLEAR OR NOMINAL WHITE POLYCARBONATE LENS MOUNTED ON AN ALUMINUM FACEPLATE. THE WORD "FIRE" IS ENGRAVED IN MINIMUM 1-INCH- (25-MM-) HIGH LETTERS ON THE LENS.

1. RATED LIGHT OUTPUT:
    - a. 15 CD.
    - b. 15/30/75/110 CD, SELECTABLE IN THE FIELD.
2. MOUNTING: WALL MOUNTED UNLESS OTHERWISE INDICATED.
3. FOR UNITS WITH GUARDS TO PREVENT PHYSICAL DAMAGE, LIGHT OUTPUT RATINGS SHALL BE DETERMINED WITH GUARDS IN PLACE.
4. FLASHING SHALL BE IN A TEMPORAL PATTERN, SYNCHRONIZED WITH OTHER UNITS.
5. STROBE LEADS: FACTORY CONNECTED TO SCREW TERMINALS.
6. MOUNTING FACEPLATE: FACTORY FINISHED, RED.

H. MATERIAL AND FINISH: MATCH DOOR HARDWARE.

2.9 REMOTE ANNUNCIATOR

A. DESCRIPTION: ANNUNCIATOR FUNCTIONS SHALL MATCH THOSE OF FIRE-ALARM CONTROL UNIT FOR ALARM, SUPERVISORY, AND TROUBLE INDICATIONS. MANUAL SWITCHING FUNCTIONS SHALL MATCH THOSE OF FIRE-ALARM CONTROL UNIT, INCLUDING ACKNOWLEDGING, SILENCING, RESETTING, AND TESTING.

1. MOUNTING: FLUSH CABINET, NEMA 250, TYPE 1.

B. DISPLAY TYPE AND FUNCTIONAL PERFORMANCE: ALPHANUMERIC DISPLAY AND LED INDICATING LIGHTS SHALL MATCH THOSE OF FIRE-ALARM CONTROL UNIT. PROVIDE CONTROLS TO ACKNOWLEDGE, SILENCE, RESET, AND TEST FUNCTIONS FOR ALARM, SUPERVISORY, AND TROUBLE SIGNALS.

2.10 ADDRESSABLE INTERFACE DEVICE

A. GENERAL:

1. INCLUDE ADDRESS-SETTING MEANS ON THE MODULE.
2. STORE AN INTERNAL IDENTIFYING CODE FOR CONTROL PANEL USE TO IDENTIFY THE MODULE TYPE.
3. LISTED FOR CONTROLLING HVAC FAN MOTOR CONTROLLERS.

B. MONITOR MODULE: MICROELECTRONIC MODULE PROVIDING A SYSTEM ADDRESS FOR ALARM-INITIATING DEVICES FOR WIRED APPLICATIONS WITH NORMALLY OPEN CONTACTS.

C. INTEGRAL RELAY: CAPABLE OF PROVIDING A DIRECT SIGNAL TO ELEVATOR CONTROLLER TO INITIATE ELEVATOR RECALL.

1. ALLOW THE CONTROL PANEL TO SWITCH THE RELAY CONTACTS ON COMMAND.
2. HAVE A MINIMUM OF TWO NORMALLY OPEN AND TWO NORMALLY CLOSED CONTACTS AVAILABLE FOR FIELD WIRING.

D. CONTROL MODULE:

1. OPERATE NOTIFICATION DEVICES.
2. OPERATE SOLENOIDS FOR USE IN SPRINKLER SERVICE.

PART 3 - EXECUTION

3.1 EXAMINATION

A. EXAMINE AREAS AND CONDITIONS FOR COMPLIANCE WITH REQUIREMENTS FOR VENTILATION, TEMPERATURE, HUMIDITY, AND OTHER CONDITIONS AFFECTING PERFORMANCE OF THE WORK.

1. VERIFY THAT MANUFACTURER'S WRITTEN INSTRUCTIONS FOR ENVIRONMENTAL CONDITIONS HAVE BEEN PERMANENTLY ESTABLISHED IN SPACES WHERE EQUIPMENT AND WIRING ARE INSTALLED, BEFORE INSTALLATION BEGINS.

B. EXAMINE ROUGHING-IN FOR ELECTRICAL CONNECTIONS TO VERIFY ACTUAL LOCATIONS OF CONNECTIONS BEFORE INSTALLATION.

C. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

3.2 EQUIPMENT INSTALLATION

A. COMPLY WITH NFPA 72, NFPA 101, AND REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION FOR INSTALLATION AND TESTING OF FIRE-ALARM EQUIPMENT. INSTALL ALL ELECTRICAL WIRING TO COMPLY WITH REQUIREMENTS IN NFPA 70 INCLUDING, BUT NOT LIMITED TO, ARTICLE 760, "FIRE ALARM SYSTEMS."

1. DEVICES PLACED IN SERVICE BEFORE ALL OTHER TRADES HAVE COMPLETED CLEANUP SHALL BE REPLACED.
2. DEVICES INSTALLED BUT NOT YET PLACED IN SERVICE SHALL BE PROTECTED FROM CONSTRUCTION DUST, DEBRIS, DIRT, MOISTURE, AND DAMAGE ACCORDING TO MANUFACTURER'S WRITTEN STORAGE INSTRUCTIONS.

B. CONNECTING TO EXISTING EQUIPMENT: VERIFY THAT EXISTING FIRE-ALARM SYSTEM IS OPERATIONAL BEFORE MAKING CHANGES OR CONNECTIONS.

1. CONNECT NEW EQUIPMENT TO EXISTING CONTROL PANEL IN EXISTING PART OF THE BUILDING.
2. CONNECT NEW EQUIPMENT TO EXISTING MONITORING EQUIPMENT AT THE SUPERVISING STATION.
3. EXPAND, MODIFY, AND SUPPLEMENT EXISTING CONTROL MONITORING EQUIPMENT AS NECESSARY TO EXTEND EXISTING CONTROL MONITORING FUNCTIONS TO THE NEW POINTS. NEW COMPONENTS SHALL BE CAPABLE OF MERGING WITH EXISTING CONFIGURATION WITHOUT DEGRADING THE PERFORMANCE OF EITHER SYSTEM.

C. EQUIPMENT MOUNTING: INSTALL FIRE-ALARM CONTROL UNIT ON CONCRETE BASE. COMPLY WITH REQUIREMENTS FOR CONCRETE BASE SPECIFIED IN SECTION 033000 "CAST-IN-PLACE CONCRETE." SECTION 033053 "MISCELLANEOUS CAST-IN-PLACE CONCRETE."

1. INSTALL SEISMIC BRACING. COMPLY WITH REQUIREMENTS IN SECTION 270548.16 "SEISMIC CONTROLS FOR COMMUNICATIONS SYSTEMS."
2. INSTALL DOWEL RODS TO CONNECT CONCRETE BASE TO CONCRETE FLOOR. UNLESS OTHERWISE INDICATED, INSTALL DOWEL RODS ON 18-INCH (460-MM) CENTERS AROUND THE FULL PERIMETER OF CONCRETE BASE.
3. FOR SUPPORTED EQUIPMENT, INSTALL EPOXY-COATED ANCHOR BOLTS THAT EXTEND THROUGH CONCRETE BASE AND ANCHOR INTO STRUCTURAL CONCRETE FLOOR.
4. PLACE AND SECURE ANCHORAGE DEVICES. USE SETTING DRAWINGS, TEMPLATES, DIAGRAMS, INSTRUCTIONS, AND DIRECTIONS FURNISHED WITH ITEMS TO BE EMBEDDED.
5. INSTALL ANCHOR BOLTS TO ELEVATIONS REQUIRED FOR PROPER ATTACHMENT TO SUPPORTED EQUIPMENT.

D. EQUIPMENT MOUNTING: INSTALL FIRE-ALARM CONTROL UNIT ON FINISHED FLOOR.

1. COMPLY WITH REQUIREMENTS FOR SEISMIC-RESTRAINT DEVICES SPECIFIED IN SECTION 270548.16 "SEISMIC CONTROLS FOR COMMUNICATIONS SYSTEMS."

E. INSTALL WALL-MOUNTED EQUIPMENT, WITH TOPS OF CABINETS NOT MORE THAN 78 INCHES (1980 MM) ABOVE THE FINISHED FLOOR.

1. COMPLY WITH REQUIREMENTS FOR SEISMIC-RESTRAINT DEVICES SPECIFIED IN SECTION 270548.16 "SEISMIC CONTROLS FOR COMMUNICATIONS SYSTEMS."

F. MANUAL FIRE-ALARM BOXES:

1. INSTALL MANUAL FIRE-ALARM BOX IN THE NORMAL PATH OF EGRESS WITHIN 60 INCHES (1520 MM) OF THE EXIT DOORWAY.
2. MOUNT MANUAL FIRE-ALARM BOX ON A BACKGROUND OF A CONTRASTING COLOR.
3. THE OPERABLE PART OF MANUAL FIRE-ALARM BOX SHALL BE BETWEEN 42 INCHES (1060 MM) AND 48 INCHES (1220 MM) ABOVE FLOOR LEVEL. ALL DEVICES SHALL BE MOUNTED AT THE SAME HEIGHT UNLESS OTHERWISE INDICATED.

G. SMOKE- OR HEAT-DETECTOR SPACING:

1. COMPLY WITH THE "SMOKE-SENSING FIRE DETECTORS" SECTION IN THE "INITIATING DEVICES" CHAPTER IN NFPA 72, FOR SMOKE-DETECTOR SPACING.
2. COMPLY WITH THE "HEAT-SENSING FIRE DETECTORS" SECTION IN THE "INITIATING DEVICES" CHAPTER IN NFPA 72, FOR HEAT-DETECTOR SPACING.
3. SMOOTH CEILING SPACING SHALL NOT EXCEED 30 FEET (9 M).
4. SPACING OF DETECTORS FOR IRREGULAR AREAS, FOR IRREGULAR CEILING CONSTRUCTION, AND FOR HIGH CEILING AREAS SHALL BE DETERMINED ACCORDING TO ANNEX AIN NFPA 72.
5. HVAC: LOCATE DETECTORS NOT CLOSER THAN 36 INCHES (910 MM) FROM AIR-SUPPLY DIFFUSER OR RETURN-AIR OPENING.
6. LIGHTING FIXTURES: LOCATE DETECTORS NOT CLOSER THAN 12 INCHES (300 MM) FROM ANY PART OF A LIGHTING FIXTURE AND NOT DIRECTLY ABOVE PENDANT MOUNTED OR INDIRECT LIGHTING.

H. INSTALL A COVER ON EACH SMOKE DETECTOR THAT IS NOT PLACED IN SERVICE DURING CONSTRUCTION. COVER SHALL REMAIN IN PLACE EXCEPT DURING SYSTEM TESTING. REMOVE COVER PRIOR TO SYSTEM TURNOVER.

I. DUCT SMOKE DETECTORS: COMPLY WITH NFPA 72 AND NFPA 90A. INSTALL SAMPLING TUBES SO THEY EXTEND THE FULL WIDTH OF DUCT. TUBES MORE THAN 36 INCHES (9100 MM) LONG SHALL BE SUPPORTED AT BOTH ENDS.

1. DO NOT INSTALL SMOKE DETECTOR IN DUCT SMOKE-DETECTOR HOUSING DURING CONSTRUCTION. INSTALL DETECTOR ONLY DURING SYSTEM TESTING AND PRIOR TO SYSTEM TURNOVER.

J. AIR-SAMPLING SMOKE DETECTORS: IF USING MULTIPLE PIPE RUNS, THE RUNS SHALL BE PNEUMATICALLY BALANCED.

K. ELEVATOR SHAFTS: COORDINATE TEMPERATURE RATING AND LOCATION WITH SPRINKLER RATING AND LOCATION. DO NOT INSTALL SMOKE DETECTORS IN SPRINKLERED ELEVATOR SHAFTS.

L. SINGLE-STATION SMOKE DETECTORS: WHERE MORE THAN ONE SMOKE ALARM IS INSTALLED WITHIN A DWELLING OR SUITE, THEY SHALL BE CONNECTED SO THAT THE OPERATION OF ANY SMOKE ALARM CAUSES THE ALARM IN ALL SMOKE ALARMS TO SOUND.

M. REMOTE STATUS AND ALARM INDICATORS: INSTALL IN A VISIBLE LOCATION NEAR EACH SMOKE DETECTOR, SPRINKLER WATER-FLOW SWITCH, AND VALVE-TAMPER SWITCH THAT IS NOT READILY VISIBLE FROM NORMAL VIEWING POSITION.

N. AUDIBLE ALARM-INDICATING DEVICES: INSTALL NOT LESS THAN 6 INCHES (150 MM) BELOW THE CEILING. INSTALL BELLS AND HORNS ON FLUSH-MOUNTED BACK BOXES WITH THE DEVICE-OPERATING MECHANISM CONCEALED BEHIND A GRILLE. INSTALL ALL DEVICES AT THE SAME HEIGHT UNLESS OTHERWISE INDICATED.

O. VISIBLE ALARM-INDICATING DEVICES: INSTALL ADJACENT TO EACH ALARM BELL OR ALARM HORN AND AT LEAST 6 INCHES (150 MM) BELOW THE CEILING. INSTALL ALL DEVICES AT THE SAME HEIGHT UNLESS OTHERWISE INDICATED.

P. DEVICE LOCATION-INDICATING LIGHTS: LOCATE IN PUBLIC SPACE NEAR THE DEVICE THEY MONITOR.

Q. ANTENNA FOR RADIO ALARM TRANSMITTER: MOUNT TO BUILDING STRUCTURE WHERE INDICATED. USE MOUNTING ARRANGEMENT AND SUBSTRATE CONNECTION THAT RESISTS 100-MPH (160-KM/H) WIND LOAD WITH A GUST FACTOR OF 1.3 WITHOUT DAMAGE.

3.3 PATHWAYS

A. PATHWAYS ABOVE RECESSED CEILINGS AND IN NONACCESSIBLE LOCATIONS MAY BE ROUTED EXPOSED.

1. EXPOSED PATHWAYS LOCATED LESS THAN 96 INCHES (2440 MM) ABOVE THE FLOOR SHALL BE INSTALLED IN EMT.

B. PATHWAYS SHALL BE INSTALLED IN EMT.

C. EXPOSED EMT SHALL BE PAINTED RED ENAMEL.

3.4 CONNECTIONS

A. FOR FIRE-PROTECTION SYSTEMS RELATED TO DOORS IN FIRE-RATED WALLS AND PARTITIONS AND TO DOORS IN SMOKE PARTITIONS, COMPLY WITH REQUIREMENTS IN SECTION 087100 "DOOR HARDWARE." CONNECT HARDWARE AND DEVICES TO FIRE-ALARM SYSTEM.

1. VERIFY THAT HARDWARE AND DEVICES ARE LISTED FOR USE WITH INSTALLED FIRE-ALARM SYSTEM BEFORE MAKING CONNECTIONS.

B. MAKE ADDRESSABLE CONNECTIONS WITH A SUPERVISED INTERFACE DEVICE TO THE FOLLOWING DEVICES AND SYSTEMS. INSTALL THE INTERFACE DEVICE LESS THAN 36 INCHES (910 MM) FROM THE DEVICE CONTROLLED. MAKE AN ADDRESSABLE CONFIRMATION CONNECTION WHEN SUCH FEEDBACK IS AVAILABLE AT THE DEVICE OR SYSTEM BEING CONTROLLED.

1. ALARM-INITIATING CONNECTION TO SMOKE-CONTROL SYSTEM (SMOKE MANAGEMENT) AT FIREFIGHTERS' SMOKE-CONTROL SYSTEM PANEL.
2. ALARM-INITIATING CONNECTION TO STAIRWELL AND ELEVATOR-SHAFT PRESSURIZATION SYSTEMS.
3. SMOKE DAMPERS IN AIR DUCTS OF DESIGNATED HVAC DUCT SYSTEMS.
4. ALARM-INITIATING CONNECTION TO ACTIVATE EMERGENCY LIGHTING CONTROL.
5. ALARM-INITIATING CONNECTION TO ACTIVATE EMERGENCY SHUTOFFS FOR GAS AND FUEL SUPPLIES.
6. SUPERVISORY CONNECTIONS AT VALVE SUPERVISORY SWITCHES.
7. SUPERVISORY CONNECTIONS AT FIRE-EXTINGUISHER LOCATIONS.

3.5 GROUNDING

A. GROUND FIRE-ALARM CONTROL UNIT AND ASSOCIATED CIRCUITS; COMPLY WITH IEEE 1100. INSTALL A GROUND WIRE FROM MAIN SERVICE GROUND TO FIRE-ALARM CONTROL UNIT.

B. GROUND SHIELDED CABLES AT THE CONTROL PANEL LOCATION ONLY. INSULATE SHIELD AT DEVICE LOCATION.

3.6 FIELD QUALITY CONTROL

A. FIELD TESTS SHALL BE WITNESSED BY AUTHORITIES HAVING JURISDICTION.

B. MANUFACTURER'S FIELD SERVICE: ENGAGE A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO TEST AND INSPECT COMPONENTS, ASSEMBLIES, AND EQUIPMENT INSTALLATIONS, INCLUDING CONNECTIONS.

C. PERFORM TESTS AND INSPECTIONS.

D. PERFORM THE FOLLOWING TESTS AND INSPECTIONS WITH THE ASSISTANCE OF A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE:

1. VISUAL INSPECTION: CONDUCT VISUAL INSPECTION PRIOR TO TESTING.
    - a. INSPECTION SHALL BE BASED ON COMPLETED RECORD DRAWINGS AND SYSTEM DOCUMENTATION THAT IS REQUIRED BY THE "COMPLETION DOCUMENTS, PREPARATION" TABLE IN THE "DOCUMENTATION" SECTION OF THE "FUNDAMENTALS" CHAPTER IN NFPA 72.
    - b. COMPLY WITH THE "VISUAL INSPECTION FREQUENCIES" TABLE IN THE "INSPECTION" SECTION OF THE "INSPECTION, TESTING AND MAINTENANCE" CHAPTER IN NFPA 72; RETAIN THE "INITIAL/REACCEPTANCE" COLUMN AND LIST ONLY THE INSTALLED COMPONENTS.
2. SYSTEM TESTING: COMPLY WITH THE "TEST METHODS" TABLE IN THE "TESTING" SECTION OF THE "INSPECTION, TESTING AND MAINTENANCE" CHAPTER IN NFPA 72.
3. TEST AUDIBLE APPLIANCES FOR THE PUBLIC OPERATING MODE ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS. PERFORM THE TEST USING A PORTABLE SOUND-LEVEL METER COMPLYING WITH TYPE 2 REQUIREMENTS IN ANSI S1.4.
4. TEST AUDIBLE APPLIANCES FOR THE PRIVATE OPERATING MODE ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
5. TEST VISIBLE APPLIANCES FOR THE PUBLIC OPERATING MODE ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
6. FACTORY-AUTHORIZED SERVICE REPRESENTATIVE SHALL PREPARE THE "FIRE ALARM SYSTEM RECORD OF COMPLETION" IN THE "DOCUMENTATION" SECTION OF THE "FUNDAMENTALS" CHAPTER IN NFPA 72 AND THE "INSPECTION AND TESTING FORM" IN THE "RECORDS" SECTION OF THE "INSPECTION, TESTING AND MAINTENANCE" CHAPTER IN NFPA 72.

E. REACCEPTANCE TESTING: PERFORM REACCEPTANCE TESTING TO VERIFY THE PROPER OPERATION OF ADDED OR REPLACED DEVICES AND APPLIANCES.

F. FIRE-ALARM SYSTEM WILL BE CONSIDERED DEFECTIVE IF IT DOES NOT PASS TESTS AND INSPECTIONS.

G. ANNUAL TEST AND INSPECTION: ONE YEAR AFTER DATE OF SUBSTANTIAL COMPLETION, TEST FIRE-ALARM SYSTEM COMPLYING WITH VISUAL AND TESTING INSPECTION REQUIREMENTS IN NFPA 72. USE FORMS DEVELOPED FOR INITIAL TESTS AND INSPECTIONS.

3.7 MAINTENANCE SERVICE

A. INITIAL MAINTENANCE SERVICE: BEGINNING AT SUBSTANTIAL COMPLETION, MAINTENANCE SERVICE SHALL INCLUDE 12 MONTHS' FULL MAINTENANCE BY SKILLED EMPLOYEES OF MANUFACTURER'S DESIGNATED SERVICE ORGANIZATION. INCLUDE PREVENTIVE MAINTENANCE, REPAIR OR REPLACEMENT OF WORN OR DEFECTIVE COMPONENTS, LUBRICATION, CLEANING, AND ADJUSTING AS REQUIRED FOR PROPER OPERATION. PARTS AND SUPPLIES SHALL BE MANUFACTURER'S AUTHORIZED REPLACEMENT PARTS AND SUPPLIES.

1. INCLUDE VISUAL INSPECTIONS ACCORDING TO THE "VISUAL INSPECTION FREQUENCIES" TABLE IN THE "TESTING" PARAGRAPH OF THE "INSPECTION, TESTING AND MAINTENANCE" CHAPTER IN NFPA 72.
2. PERFORM TESTS IN THE "TEST METHODS" TABLE IN THE "TESTING" PARAGRAPH OF THE "INSPECTION, TESTING AND MAINTENANCE" CHAPTER IN NFPA 72.
3. PERFORM TESTS PER THE "TESTING FREQUENCIES" TABLE IN THE "TESTING" PARAGRAPH OF THE "INSPECTION, TESTING AND MAINTENANCE" CHAPTER IN NFPA 72.
4. SOFTWARE SERVICE AGREEMENT

B. COMPLY WITH UL 864.

C. TECHNICAL SUPPORT: BEGINNING AT SUBSTANTIAL COMPLETION, SERVICE AGREEMENT SHALL INCLUDE SOFTWARE SUPPORT FOR TWO YEARS.

D. UPGRADE SERVICE: AT SUBSTANTIAL COMPLETION, UPDATE SOFTWARE TO LATEST VERSION. INSTALL AND PROGRAM SOFTWARE UPGRADES THAT BECOME AVAILABLE WITHIN TWO YEARS FROM DATE OF SUBSTANTIAL COMPLETION. UPGRADING SOFTWARE SHALL INCLUDE OPERATING SYSTEM AND NEW OR REVISED LICENSES FOR USING SOFTWARE.

5. UPGRADE NOTICE: AT LEAST 30 DAYS TO ALLOW OWNER TO SCHEDULE ACCESS TO SYSTEM AND TO UPGRADE COMPUTER EQUIPMENT IF NECESSARY.
6. DEMONSTRATION

E. ENGAGE A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO TRAIN OWNER'S MAINTENANCE PERSONNEL TO ADJUST, OPERATE, AND MAINTAIN FIRE-ALARM SYSTEM.

DSA STAMP

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SEAL

AMMAR NAJI SARSAM
C-30902
12/31/2023
RENEWAL DATE

CONSULTANTS

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Contact: ALEX SASSOON
P2S #: 22-0403

ALEXANDER MH SASSOON
No. E22639
ELECTRICAL

PROJECT TITLE

HRC TEMP RELOCATABLE
CLASSROOM & RESTROOM

Cypress College

CYPRESS COMMUNITY COLLEGE

ISSUED

#	DATE	DESCRIPTION
	04/06/2023	DSA BACKCHECK SUBMITTAL

PROJECT IDENTIFICATION

THE DRAWINGS IN THE SHEET INDEX WERE ORIGINALLY CREATED IN AUTODESK REVIT V. 2018 UNLESS OTHERWISE NOTED.

THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42".

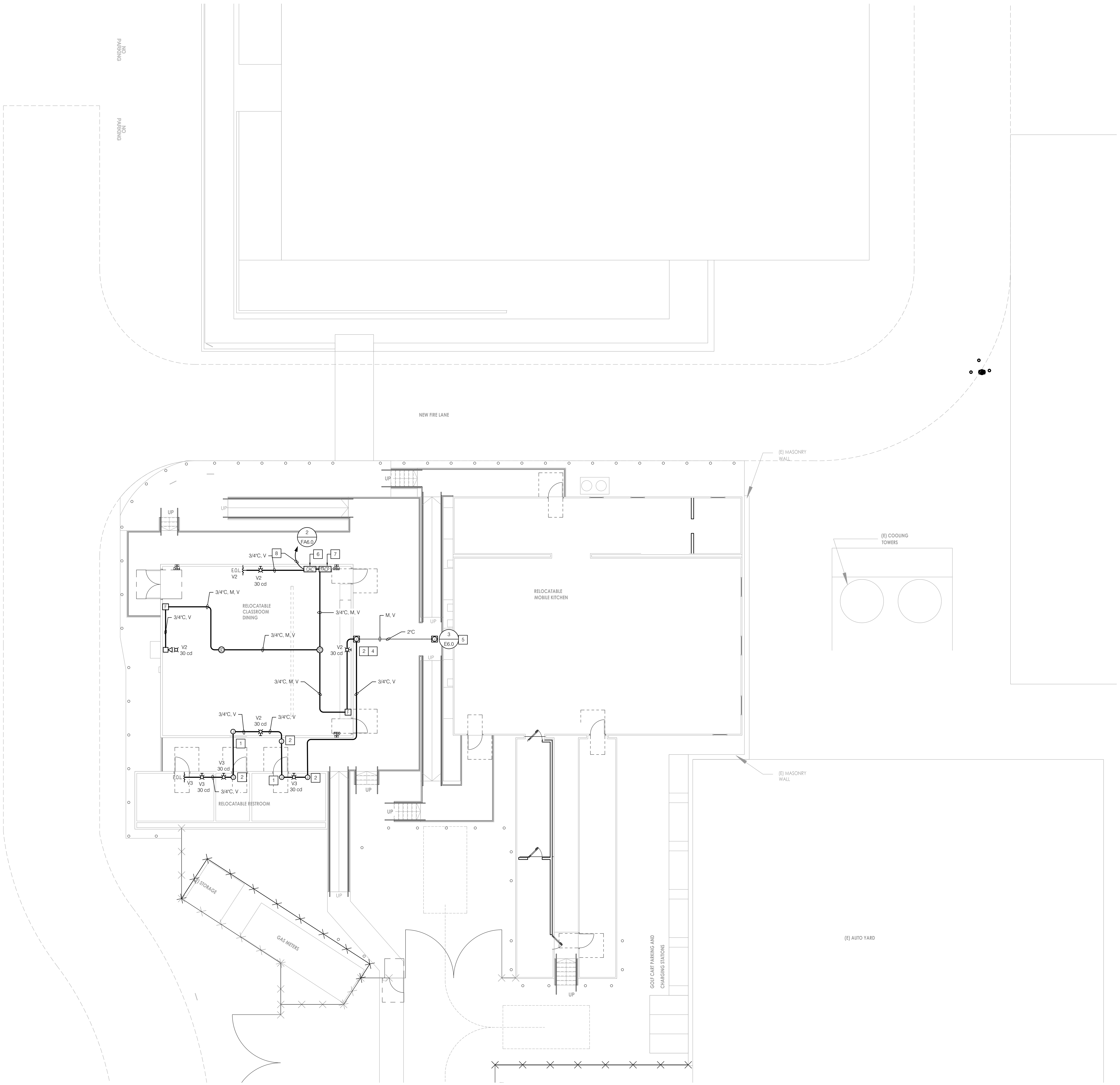
SHEET TITLE

SPECIFICATIONS

SHEET NUMBER

FA0.3

DSA SUBMITTAL
NOT FOR CONSTRUCTION



NOTES

1. PROVIDE JUNCTION BOX. BRING CONDUIT FROM FLOOR LEVEL TO UNDER DECK.
2. PROVIDE JUNCTION BOX. BRING CONDUIT UNDER DECK TO FLOOR LEVEL.
3. NOT USED
4. CONDUIT TRANSITION FROM UNDERGROUND TO WALL PENETRATION ABOVE FINISHED CEILING. PROVIDE MINIMUM 6"x6"x4" NEMA 3R PULLBOX MOUNTED TO WALL.
5. PROVIDE (1) DUCTBANK WITH 2" CONDUIT FOR TELECOM AND FIRE ALARM. SEE E1.3 FOR TELECOM PLAN AND FA1.0 FROM RELOCATABLE KITCHEN SUBMITTAL.
6. PROVIDE IP FIRE ALARM COMMUNICATOR, NOTIFIER #IPDACT-2 OR EQUAL.
7. PROVIDE 5G CELLULAR COMMUNICATOR, TELGUARD #TG-7FS OR EQUAL.
8. CONNECT VIA IP AND WIRELESS TO IDF EQUIPMENT IN SAME ROOM. SEE E1.2 FOR TELECOM PLAN FROM 'RELOCATABLE CLASSROOM & RESTROOM BUILDINGS' SUBMITTAL FOR EXACT LOCATION.

GENERAL NOTES

1. SEE SHEET 1/FA6.0 FOR MOUNTING HEIGHT DETAIL.
2. COORDINATE WITH SHEET M1.0-PS.

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

DSA STAMP

HPI architecture

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SEAL

LICENSED ARCHITECT AMMAR NAJI SARSAM C-30902 12/31/2023 RENEWAL DATE STATE OF CALIFORNIA

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Contact: ALEX SASSOON
P2S #: 22-0403

PROJECT TITLE

HRC TEMP RELOCATABLE CLASSROOM & RESTROOM

Cypress College

CYPRESS COMMUNITY COLLEGE

ISSUED

#	DATE	DESCRIPTION
	04/06/2023	DSA BACKCHECK SUBMITTAL

PROJECT IDENTIFICATION

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SHEET TITLE

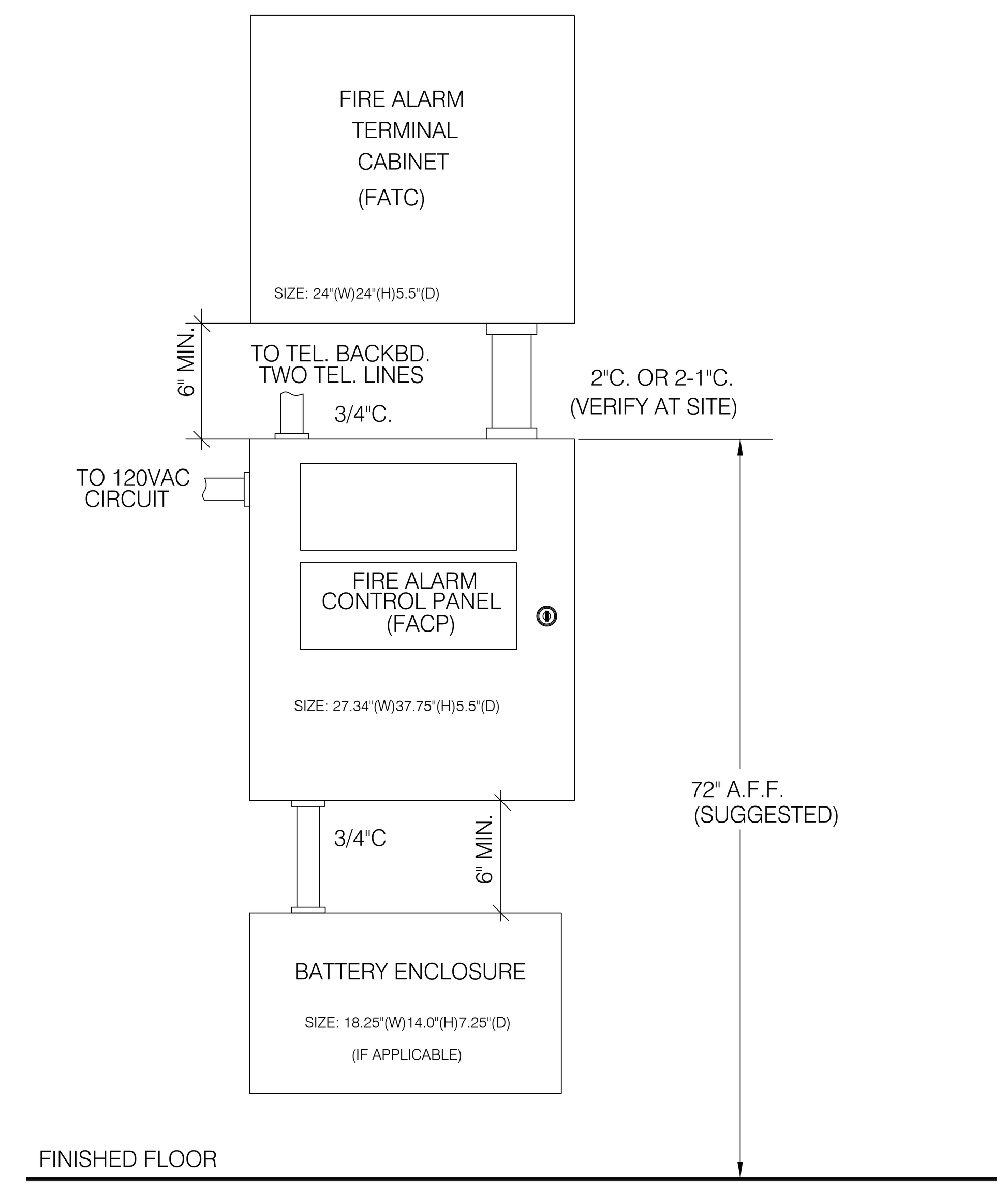
FIRE ALARM PLAN

SHEET NUMBER

FA1.0

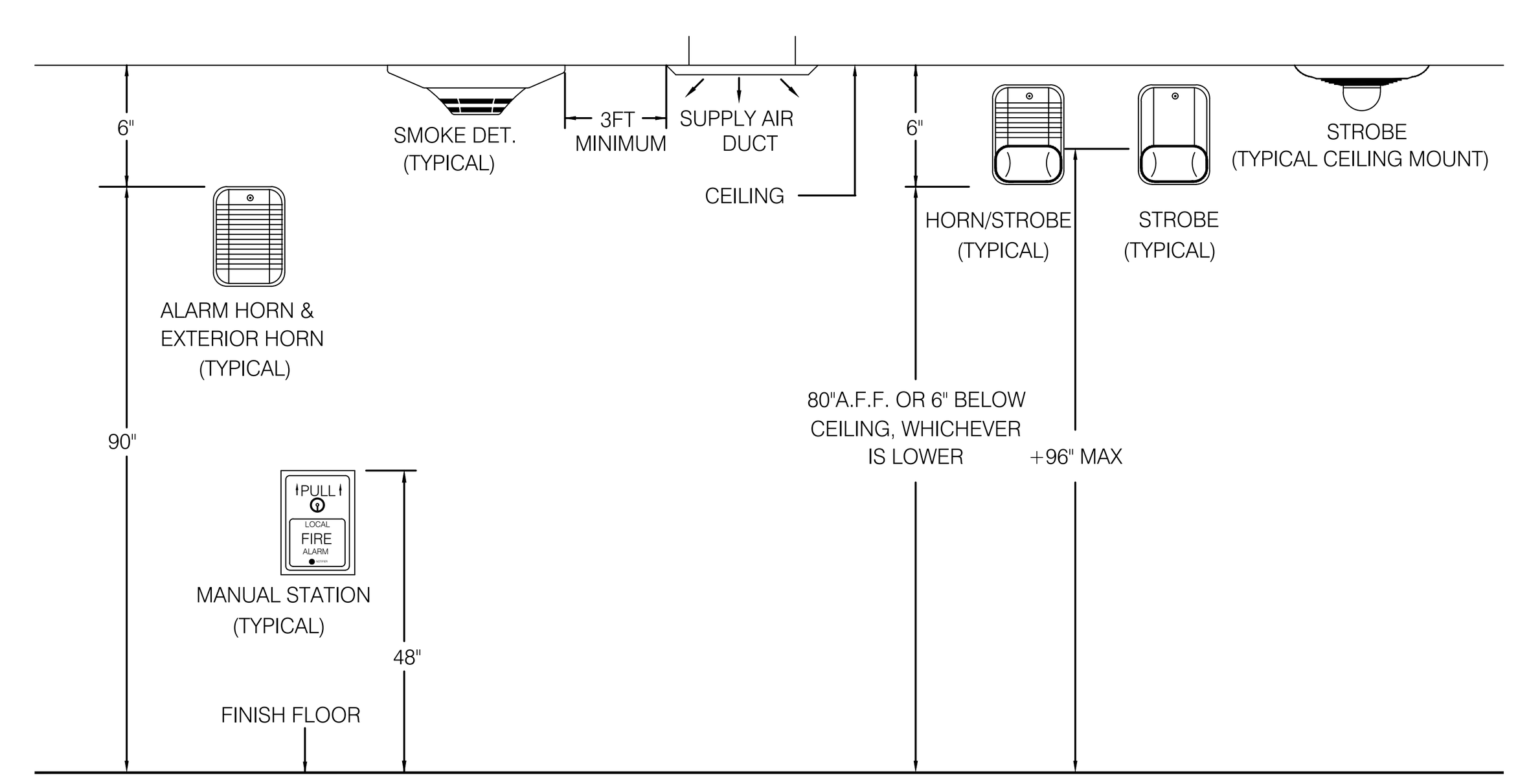
DSA SUBMITTAL

NOT FOR CONSTRUCTION



2 FIRE ALARM PANEL ELEVATION

NO SCALE



NOTES

1. ENTIRE STROBES AND HORN/STROBES SHALL BE WALL MOUNTED A MINIMUM OF 80" ABOVE THE FLOOR.
2. MANUAL STATION SHALL BE INSTALLED AT 48" ABOVE FINISHED FLOOR. MEASUREMENTS ARE TO BE TAKEN FROM THE HIGHEST PORTION OF THE DEVICE.
3. EXTERIOR HORNS SHALL BE WALL MOUNTED A MINIMUM OF 90" ABOVE THE FLOOR OR 6" MINIMUM BELOW THE CEILING WHICHEVER IS LOWER. MEASUREMENTS ARE TO BE TAKEN FROM THE HIGHEST PORTION OF THE HORN.
4. FACP CABINET SHALL BE LOCATED 72" ABOVE THE SURFACE OF THE FINISHED FLOOR. MEASUREMENTS ARE TO BE TAKEN FROM THE HIGHEST PORTION OF THE DEVICE.

1 TYPICAL MOUNTING DIMENSIONS

NO SCALE

DSA STAMP

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12/31/2023
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P2S #: 22-0403

PROJECT TITLE

HRC TEMP RELOCATABLE CLASSROOM & RESTROOM

Cypress College

CYPRESS COMMUNITY COLLEGE

ISSUED		
#	DATE	DESCRIPTION
	04/06/2023	DSA BACKCHECK SUBMITTAL

PROJECT IDENTIFICATION

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THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42".

SHEET TITLE

DETAILS

SHEET NUMBER

FA6.0

DSA SUBMITTAL

NOT FOR CONSTRUCTION

CYPRESS COLLEGE HRC TEMP

9200 VALLEY VIEW ST. CYPRESS, CA 90630

BUILDING DATA

ROOF LIVE LOAD: 20 PSF
WIND LOAD: 80 MPH Exp, "C"
ELECTRICAL: (1) 150A
SERIAL NUMBER:
2AH10104-2AH10106

FLOOR LIVE LOAD: 125 PSF
OCCUPANCY: E
MECHANICAL: YES
PLUMBING: YES

APPLICABLE CODES

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24, CCR

2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, CCR

EXISTING APPLICABLE CODES

2001 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR)
2001 CALIFORNIA BUILDING CODE VOLUMES 1, 2 AND 3 (PART 2 TITLE 24, CCR) (1997 EDITION UNIFORM BUILDING CODE WITH 2001 CALIFORNIA AMENDMENTS)
2001 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR) (1999 EDITION NATIONAL ELECTRICAL CODE WITH 2001 AMENDMENTS)
2001 CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24, CCR) (2000 EDITION IAPMO UNIFORM MECHANICAL CODE WITH 2001 CALIFORNIA AMENDMENTS)
2001 CALIFORNIA PLUMBING CODE (PART 5, TITLE 24, CCR) (2000 EDITION IAMPO UNIFORM PLUMBING CODE WITH 2001 CALIFORNIA AMENDMENTS)
2001 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR)
2001 CALIFORNIA ELEVATOR SAFETY CONSTRUCTION CODE (PART 7, TITLE 24, CCR)
2001 CALIFORNIA FIRE CODE (PART 9, TITLE 24, CCR)
2001 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR)

NFPA 13, 1999 EDITION, THE INSTALLATION OF AUTOMATIC SPRINKLER SYSTEMS, AS AMENDED
NFPA 14, 2000 EDITION, INSTALLATION OF STANDPIPE, PRIVATE HYDRANT AND HOSE SYSTEMS
NFPA 24, 1995 EDITION, INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES
NFPA 72, 1999 EDITION, NATIONAL FIRE ALARM CODE, AS AMENDED

SHEET INDEX

PROJECT SPECIFIC SHEETS

MSI APP NO. 01-105425

PROJECT SPECIFIC STATE AGENCY APPROVAL

GLOBAL MODULAR Incorporated
AURORA DESIGNS · MODTECH Designs · MODULAR STRUCTURES INTERNATIONAL, INC. DESIGNS
CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISON
450 COMMERCE AVE.
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PROJECT NAME:
CYPRESS COLLEGE HRC TEMP
9200 VALLEY VIEW ST.
CYPRESS, CA 90630

RELOCATABLE CLASSROOM & RESTROOM BUILDING

SHEET TITLE:

TITLE SHEET

PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

LICENSED ARCHITECT ROBERT ESPINOZA C-14456 2/2023 RENEWAL DATE STATE OF CALIFORNIA

ARCHITECT OF RECORD

LICENSED ARCHITECT AMMAR NAJI SARSAM C-30902 12/31/2023 RENEWAL DATE STATE OF CALIFORNIA

REVISIONS

1 -
2 -
3 -
4 -

PROJECT STATUS: DSA SUBMITTAL
DRAWN BY:
SCALE: AS NOTED
DATE: 08.30.22

SHEET NUMBER

A0.0-PS

PANEL A

Rated Amps: 150 | Volts: 120/240
Interior: | Phase / Wire: 1 PHASE/3 WIRE
Exterior: X | Flush: X
NEMA Rated: 3R | Surface:

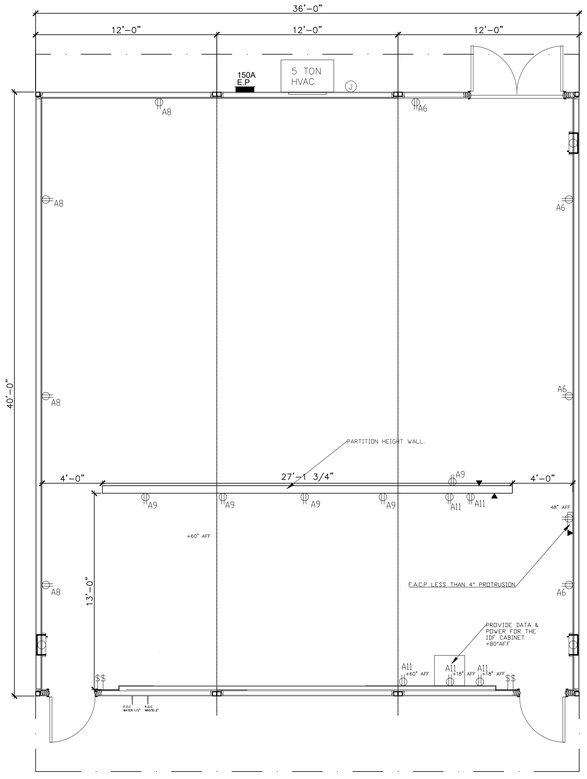
Description	Load	Ckt Bkr		Ckt Bkr	Load	
MAIN BREAKER		2 / 150				
HVAC 5 TON	5175	2 / 60	1 2	1 / 20	939	LIGHTS
HVAC 5 TON	5175		3 4	1 / 20	1007	LIGHTS
HEAT STRIP	2990	2 / 30	5 6	1 / 20	900	RECEPTACLES
HEAT STRIP	2990		7 8	1 / 20	900	RECEPTACLES
RECEPTACLES	1080	1 / 20	9 10			
RECEPTACLES	1080	1 / 20	11 12	1 / 20	180	HVAC SERVICE
			13 14			
			15 16			
			17 18			

11084 Watts + 11332 Watts + 5604 Watts (25%) = 28020 Watts ÷ 240 Voltage = 117 Amps Per Phase

* CIRCUIT BREAKER TO BE ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS

SYMBOL LEGEND

- A — 2'X4' FLUORESCENT DROP IN LIGHT FIXTURE T-8
- BB — 2'X4' FLUORESCENT DROP IN LIGHT FIXTURE T-8 EMERGENCY BUILD IT LIGHT BULB WITH 90 MIN BATTERY BACK UP
- AC ELECTRONICS AC106 37W 120/277V EXTERIOR WALL MOUNT LED WALLPACK FIXTURE WITH 90 MIN EMERGENCY BACK UP PS1055LCP
- (OS) — OCCUPANCY SENSOR CEILING MOUNTED (LIGHTING) ☐ LEVITON OSC10-MOW ☐ LEVITON OSC20-MOW
- CEILING MOUNTED PROJECTOR
- AV — AUDIOVISUAL
- DUPLEX RECEPTACLE
- DUPLEX RECEPTACLE/ GFCI
- (J) — J-BOX STUB TO ATTIC
- (T) — THERMOSTAT
- TELEPHONE (J-BOX) STUB TO ATTIC
- DATA (J-BOX) STUB TO ATTIC
- FIRE EXTINGUISHER
- SUPPLY AIR REGISTER PERFORATED FACE
- DIM — DIMMER SWITCH +44" AFF BOT OF BOX (U.N.O.) LEVITON DS710-10Z 120/277V
- EXIT — EXIT (RED)/ EMERGENCY LIGHT WITH 90 MIN BATTERY BACK UP LITHONIA LHQM-LED-R-HO 4.3W
- UCD — UNDERCUT DOOR
- RETURN AIR REGISTER EXCELSIOR 710S ANGLE STACK BOOT
- VOLUME AIR DAMPER
- CEILING MOUNTED SPEAKER
- WALL MOUNTED MOUNTED SPEAKER
- DIM2 — OCCUPANCY SENSOR DIMMER SWITCH LEVITON OSD10-I0W
- (PC) — PHOTO CONTROL SWITCH LEVITON ODCOP-DOW
- WALL HYDRANT



PROJECT SPECIFIC STATE AGENCY APPROVAL

GLOBAL MODULAR incorporated
AURORA DESIGNS MODTECH MODULAR STRUCTURES INTERNATIONAL LTD. Designs in MOTION

CONTRACTORS LICENSE #837357

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PROJECT NAME:
CYPRESS COLLEGE HRC TEMP
9200 VALLEY VIEW ST.
CYPRESS, CA 90630

RELOCATABLE CLASSROOM & RESTROOM BUILDING

SHEET TITLE:

ELECTRICAL PLAN

PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

LICENSED ARCHITECT — ROBERT ESPINOZA — C-14456 — 2/2023 RENEWAL DATE — STATE OF CALIFORNIA

ARCHITECT OF RECORD

LICENSED ARCHITECT — AMMAR NAJI SARSAM — C-30902 — 12/31/2023 RENEWAL DATE — STATE OF CALIFORNIA

REVISIONS
1 -
2 -
3 -
4 -

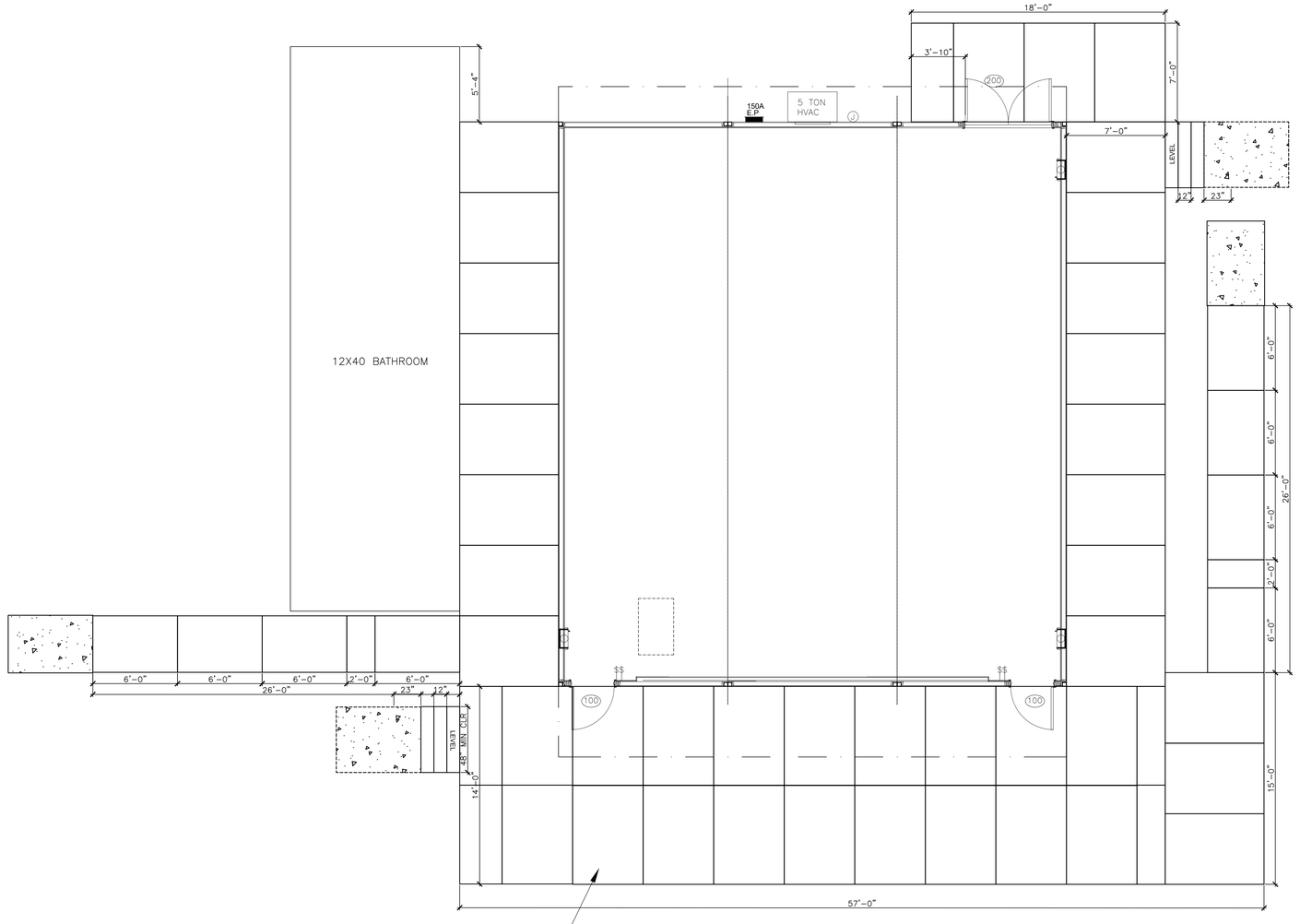
PROJECT STATUS: DSA SUBMITTAL
DRAWN BY:
SCALE: AS NOTED
DATE:

SHEET NUMBER

E1.0-PS

APP#: 01-105425

SERIAL#: 2AH10104 SERIAL#: 2AH10105 SERIAL#: 2AH10106



TMP RAMP PC 04-119501

RAMP LAYOUT 1/4"=1'-0"

PROJECT SPECIFIC STATE AGENCY APPROVAL

GLOBAL MODULAR Incorporated

AURORA DESIGNS MODTECH Designs MODULAR STRUCTURES INTERNATIONAL INC. BRAKON

CONTRACTORS LICENSE #837357

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PROJECT NAME:
CYPRESS COLLEGE HRC TEMP
9200 VALLEY VIEW ST.
CYPRESS, CA 90630

RELOCATABLE CLASSROOM & RESTROOM BUILDING

SHEET TITLE:

RAMP & LANDING PLAN

PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

LICENSED ARCHITECT ROBERT ESMOND C-14456 2/2023 RENEWAL DATE STATE OF CALIFORNIA

ARCHITECT OF RECORD

LICENSED ARCHITECT AMMAR NAJI SARSAM C-30902 12/31/2023 RENEWAL DATE STATE OF CALIFORNIA

REVISIONS

1. -
2. -
3. -
4. -

PROJECT STATUS: DSA SUBMITTAL
DRAWN BY: AARON.H
SCALE: AS NOTED
DATE: 10.11.22

SHEET NUMBER

R1.0-PS

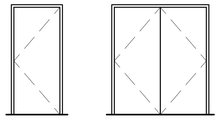
HARDWARE GROUP (ENTRY) 1		
QTY.	ITEM	DESCRIPTION
1	LOCK SET	"VON DUPRIN": PANIC HARDWARE MODEL: 98/99 SERIES, AX, PA.
1	KEYING	CONSTRUCTION KEY
3	HINGES	"MCKINNEY": TZ714 4.5"x4.5" NRP A5133
1	CLOSER	"NORTON": 8301 SLIM COVER (5 LB OPERATING PUSH/PULL PRESSURE)
1	THRESHOLD	"MCKINNEY": MCK271A 36"
1	DOOR BOTTOM	"MCKINNEY": MCK216AV 36"
1	WEATHER-STRIP	"MCKINNEY": MCK2891AS 36"x84"
1	KICK PLATE	"MCKINNEY": KP50 10"x34"
1	DOOR STOP	"MCKINNEY": FS02 FLOOR STOP (LOCATED 4" FROM WALL)

DOOR SCHEDULE

#	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	HARDWARE GROUP	DOOR MATERIAL	DOOR GAUGE	DOOR FRAME	FRAME GAUGE	GLAZING	FIRE RATING	REMARKS
100	A	3'-0"	6'-8"	1	STL	18	KD	16	–	–	–
200	B	6'-0"	6'-8"	1	STL	18	KD	16	–	–	–

DOOR MATERIAL LEGEND
STL: STEEL DOOR-HOLLOW CORE
SCW: SOLID CORE WOOD
SCL: SOLID CORE WOOD LEGACY
HCW: HOLLOW CORE WOOD
SF: STORE FRONT

DOOR FRAME LEGEND
WF: WELDED FRAMING-HOLLOW METAL
TM: TIMELY METAL
KD: KNOCK DOWN-HOLLOW METAL
SF: STORE FRONT



DOOR TYPE A DOOR TYPE B

ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE	WALLS				CEILING FINISH	HEIGHT CEILING	REMARKS
				ELEV. 1	ELEV. 2	ELEV. 3	ELEV. 4			
–	SERVICE AREA	SV	6SC	FRP	FRP	FRP	FRP	AT	8'-6"	–
–	DINING AREA	SV	6SC	FRP	FRP	FRP	FRP	AT	8'-6"	–

FLOOR FINISH LEGEND
CPT: CARPET FLOORING
SV: SHEET VINYL FLOORING
VCT: VINYL COMPOSITION TILE
4TB: 4" TOP SET BASE
6TB: 6" TOP SET BASE
6SC: 6" SELF COVE BASE
BO: BY OWNER

CEILING FINISH LEGEND:
AT: ARMSTRONG CLEAN ROOM VL- WASHABLE CEILING TILE

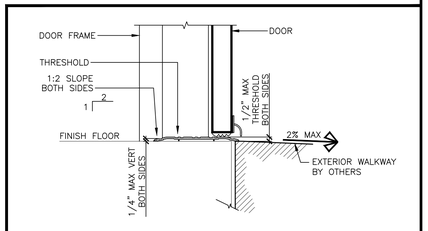
WALL FINISH LEGEND: (CHECK BOX WHERE APPLICABLE)
VT: 1/2" VINYL TACK BOARD OVER: ☐
1/2" GYP BOARD ☐
OPTIONAL 5/8" GYP BOARD ☐
NOTE: USE TYPE 'X' GYP BOARD WHERE CALL FOR. USE MOISTURE RESISTANT GYP BOARD BEHIND CLASSROOM SINKS

FRP: 1/8" FIBERBOARD REINFORCED PANELS OVER: ■
1/2" MOISTURE RESISTANT GYP BOARD ■
OPTIONAL 5/8" MOISTURE RESISTANT GYP BOARD

PGYP: 1/2" GYP BOARD TAPE/TEXTURED/PAINTED
OPTIONAL 5/8" GYP BOARD TAPE/TEXTURED/PAINTED
NOTE: USE TYPE 'X' GYP BOARD WHERE CALL FOR. USE MOISTURE RESISTANT GYP BOARD BEHIND CLASSROOM SINKS AND/OR WET AREAS

LWP: LAMINATE WALL PANEL COLOR TBD. (INSTALL LWP ON THE PARTIAL HEIGHT WALL FACING DINING AREA ONLY.)

HARDWARE SCHEDULE

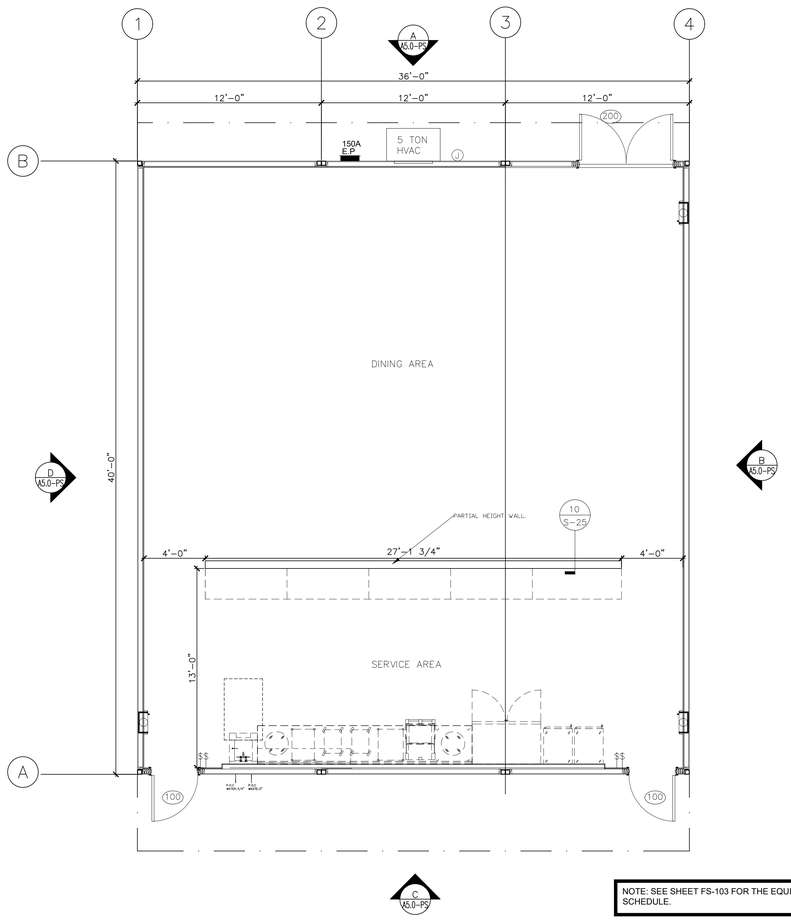


ACCESSIBLE THRESHOLD
SCALE: NTS

1

APP#: 01-105425

SERIAL#: 2AH10104 SERIAL#: 2AH10105 SERIAL#: 2AH10106



NOTE: SEE SHEET FS-103 FOR THE EQUIPMENT SCHEDULE.

FLOOR PLAN 1/4"=1'-0"

PROJECT SPECIFIC STATE AGENCY APPROVAL

GLOBAL MODULAR incorporated
AURORA DESIGNS MODTECH Designs MODULAR STRUCTURES INTERNATIONAL, INC. DESIGNS

CONTRACTORS LICENSE #837357

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PROJECT NAME:
CYPRESS COLLEGE HRC TEMP
9200 VALLEY VIEW ST.
CYPRESS, CA 90630

RELOCATABLE CLASSROOM & RESTROOM BUILDING

SHEET TITLE:
FLOOR PLAN & HARDWARE SCHEDULE

PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

LICENSED ARCHITECT ROBERT ESPINOZA C-14456 2/2023 RENEWAL DATE STATE OF CALIFORNIA

ARCHITECT OF RECORD

LICENSED ARCHITECT AMMAR NAJI SARSAM C-30902 12/31/2023 RENEWAL DATE STATE OF CALIFORNIA

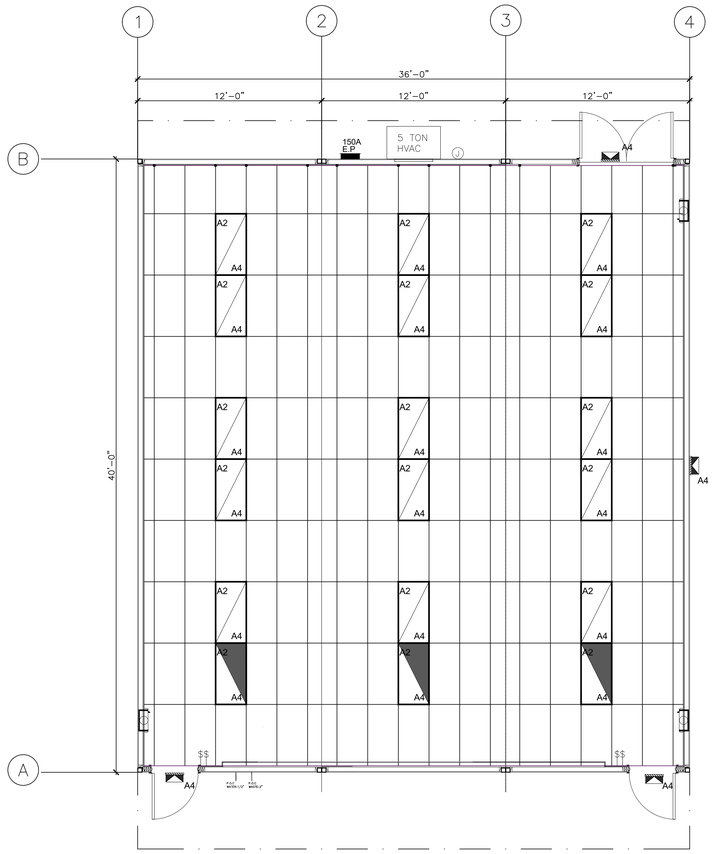
REVISIONS
1 -
2 -
3 -
4 -

PROJECT STATUS: DSA SUBMITTAL
DRAWN BY:
SCALE: AS NOTED
DATE:

SHEET NUMBER
A1.0-PS

APP#: 01-105425

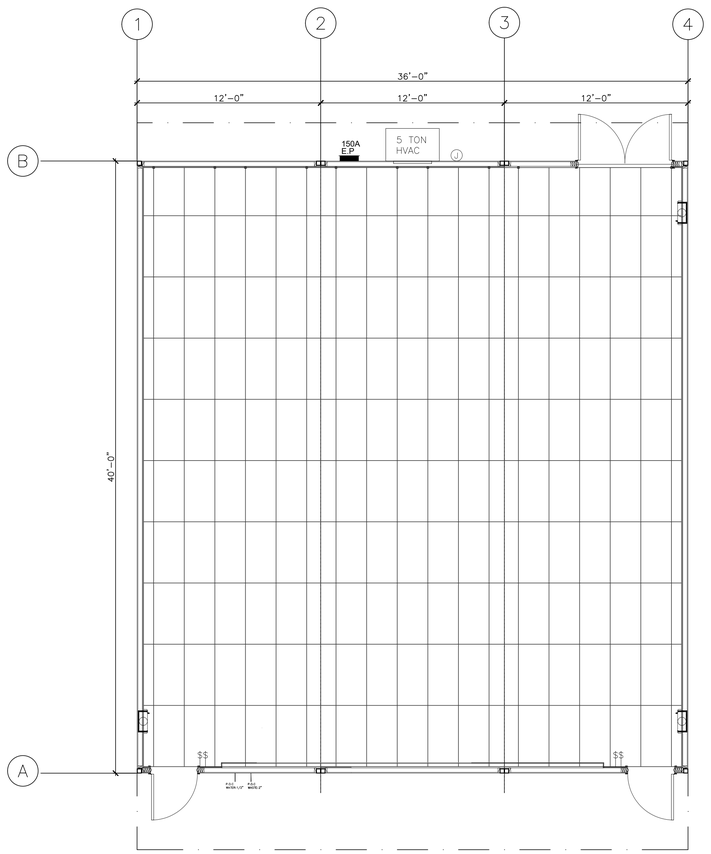
SERIAL#: 2AH10104 SERIAL#: 2AH10105 SERIAL#: 2AH10106



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

APP#: 01-105425

SERIAL#: 2AH10104 SERIAL#: 2AH10105 SERIAL#: 2AH10106



REFLECTED CEILING PLAN 1/4"=1'-0"

PROJECT SPECIFIC STATE AGENCY APPROVAL

GLOBAL MODULAR Incorporated

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CONTRACTORS LICENSE #837357

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PROJECT NAME:
CYPRESS COLLEGE HRC TEMP
9200 VALLEY VIEW ST.
CYPRESS, CA 90630

RELOCATABLE CLASSROOM & RESTROOM BUILDING

SHEET TITLE:

REFLECTED CEILING & LIGHTING PLAN

PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC

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ARCHITECT OF RECORD

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3 -
4 -

PROJECT STATUS:	DSA SUBMITTAL
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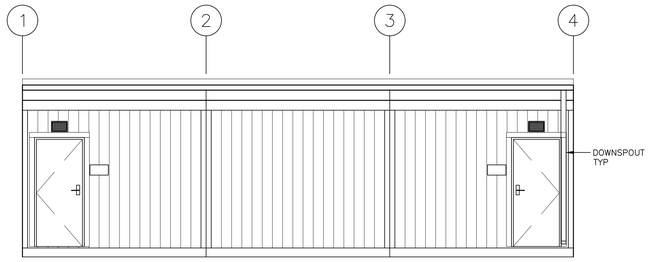
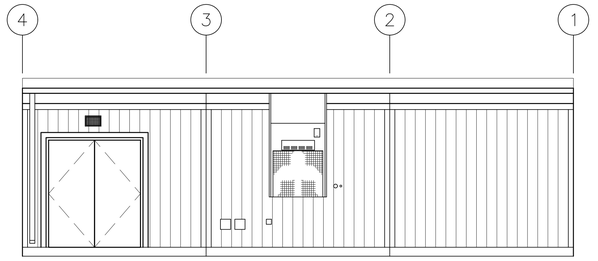
SCALE:	AS NOTED
DATE:	

SHEET NUMBER

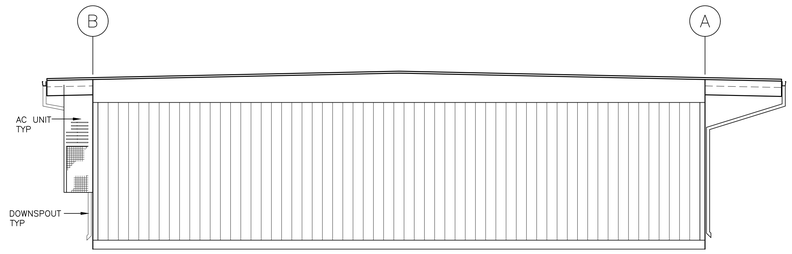
A2.0-PS



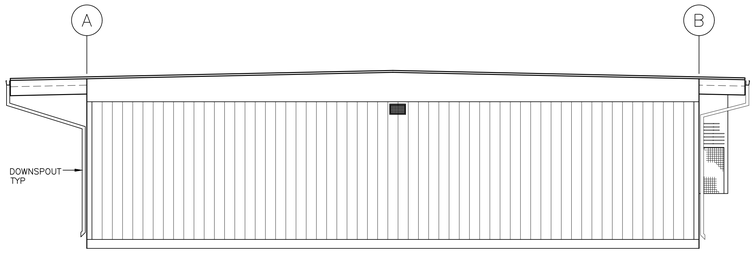
ELEVATION C



ELEVATION A



ELEVATION D



ELEVATION B

EXTERIOR ELEVATIONS (DUAL SLOPE)

PROJECT SPECIFIC STATE AGENCY APPROVAL

GLOBAL MODULAR INCORPORATED

AURORA DESIGNS · MODTECH Designs · MODULAR STRUCTURES INTERNATIONAL, INC DESIGNS

CONTRACTORS LICENSE #837357

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PROJECT NAME:
CYPRESS COLLEGE HRC TEMP
9200 VALLEY VIEW ST.
CYPRESS, CA 90630

RELOCATABLE CLASSROOM & RESTROOM BUILDING

SHEET TITLE:

EXTERIOR ELEVATIONS

PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

LICENSED ARCHITECT · ROBERT ESPINOZA · C-14456 · 2/2023 RENEWAL DATE · STATE OF CALIFORNIA

ARCHITECT OF RECORD

LICENSED ARCHITECT · AMMAR NAJI SARSAM · C-30902 · 12/31/2023 RENEWAL DATE · STATE OF CALIFORNIA

REVISIONS

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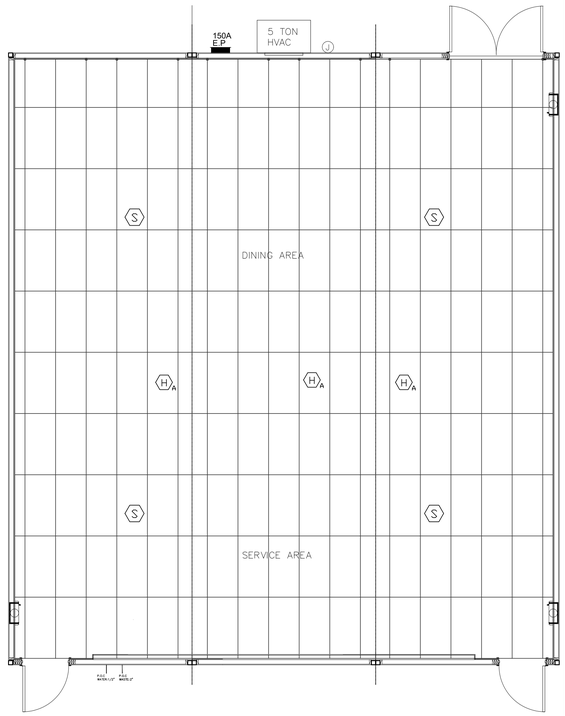
PROJECT STATUS: DSA SUBMITTAL
DRAWN BY:
SCALE: AS NOTED
DATE: 08.30.22

SHEET NUMBER

A5.0-PS

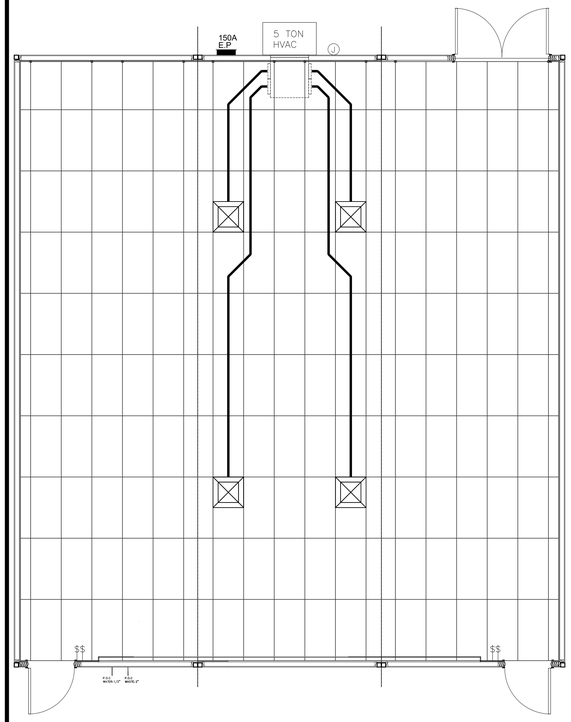
SYMBOL LEGEND

SYMBOL	DESCRIPTION
HF	MANUAL PULL STATION (J-BOX ONLY) MOUNT +48" A.F.F. TO CENTERLINE OF DEVICE
HF	WALL MOUNT FLASHING LIGHT STROBE (J-BOX ONLY) MOUNT +80"-96" A.F.F., OR 6" BELOW CEILING TO BOTTOM OF DEVICE WHICHEVER IS LOWER
HF (W.P.)	WALL MOUNT WEATHERPROOF EXTERIOR HORN (J-BOX ONLY) MOUNT +90" A.F.F. TO BOTTOM OF DEVICE (W.P. – INDICATES WEATHERPROOF)
S	CEILING MOUNT SMOKE DETECTOR (J-BOX ONLY)
H_A	HEAT DETECTOR MOUNTED ABOVE CEILING (J-BOX ONLY)
FACP	MAIN FIRE ALARM CONTROL PANEL N.I.C.



NOTE: SEE ARCHITECTURAL FIRE ALARM PLAN FOR THE LIST OF DEVICES.

FIRE ALARM PLAN 1/4"=1'-0"



NOTE: SEE ORIGINAL MANUFACTURES DRAWING FOR THE HVAC INSTALLATION AND GENERAL INFORMATION

MECHANICAL PLAN 1/4"=1'-0"

PROJECT SPECIFIC STATE AGENCY APPROVAL

GLOBAL MODULAR Incorporated

AURORA DESIGNS MODTECH Designs MODULAR STRUCTURES INTERNATIONAL, INC. DIVISION

CONTRACTORS LICENSE #837357

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PROJECT NAME:
CYPRESS COLLEGE HRC TEMP
9200 VALLEY VIEW ST.
CYPRESS, CA 90630

RELOCATABLE CLASSROOM & RESTROOM BUILDING

SHEET TITLE:

MECHANICAL & FIRE ALARM PLAN

PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

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ARCHITECT OF RECORD

LICENSED ARCHITECT AMMAR NAJI SARSAM C-30902 12/31/2023 RENEWAL DATE STATE OF CALIFORNIA

REVISIONS

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DATE:	

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M1.0–PS

PLUMBING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION ***ALTERNATE/OPTIONAL	ACCESSIBLE FOR	WASTE	VENT	CW	HW
SK	ADA WALL MOUNTED HAND SINK: "EAGLE GROUP" HSAP-14-ADA-FW FAUCET: "FISHER" 62650	ALL AGES	2"	2"	1/2"	1/2"
DF	DRINKING FOUNTAIN WALL MOUNTED: "HAWS" – MODEL# 1119, ADA,	ALL AGES	2	2	1/2"	–

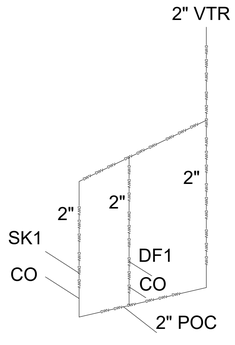
NOTE: NON-ACCESSIBLE (STANDARD) MOUNTING HEIGHTS FOR ADULT FIXTURES SHALL BE THE FOLLOWING:
TOILET SEAT HEIGHT– 15" AFF

PLUMBING LEGEND

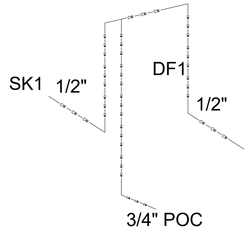
- COLD WATER
- WASTE
- CLEAN OUT
- VENT TRHOUGH ROOF (VTR)
- WATER POC
- WASTE POC
- PLUMBING FIXTURE CALL OUT (REFERENCE SHEET P0.0 FOR FIXTURE SCHEDULE)

CO	CLEANOUT
LV	WALL HUNG LAVATORY SINK
POC	POINT OF CONNECTION
VTR	VENT THRU ROOF
WC	WATER CLOSET
HA	WATER HAMMER ARRESTOR
SK	SINK
DF	DRINKING FOUNTAIN
HB	HOSE BIBB

*ABS SCHEDULE 40 WASTE PIPE
*L COPPER WATER PIPE

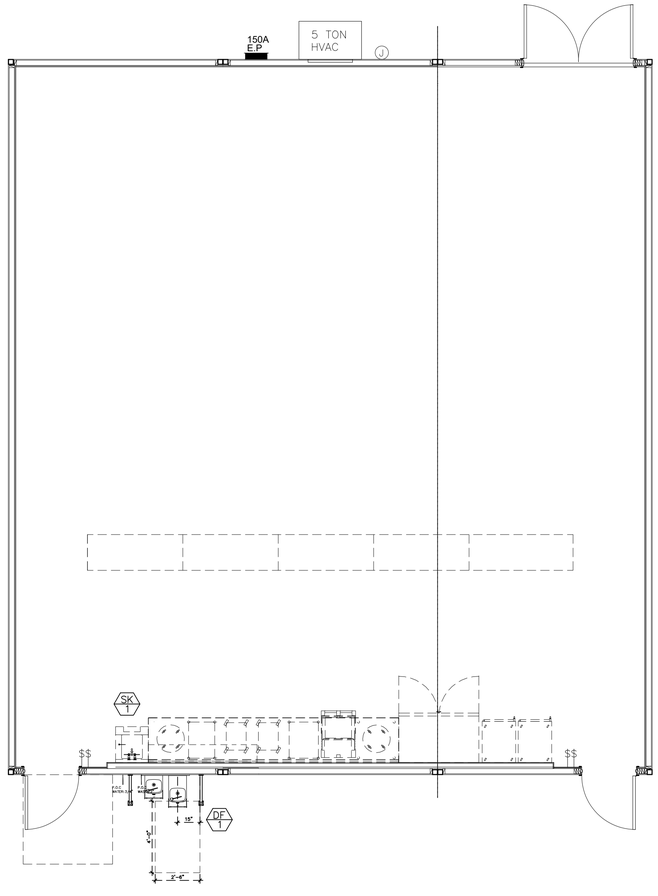


WASTE



WATER

PLUMBING SCHEMATICS



PLUMBING PLAN 1/4"=1'-0"

PROJECT SPECIFIC STATE AGENCY APPROVAL

GLOBAL MODULAR Incorporated

AURORA DESIGNS · MODTECH Design · MODULAR STRUCTURES INTERNATIONAL, INC. DESIGNS

CONTRACTORS LICENSE #837357

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PROJECT NAME:
CYPRESS COLLEGE HRC TEMP
9200 VALLEY VIEW ST.
CYPRESS, CA 90630

RELOCATABLE CLASSROOM & RESTROOM BUILDING

SHEET TITLE:

PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC

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MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

LICENSED ARCHITECT · ROBERT ESPINOZA · C-14456 · 2/2023 RENEWAL DATE · STATE OF CALIFORNIA

ARCHITECT OF RECORD

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PROJECT STATUS: DSA SUBMITTAL
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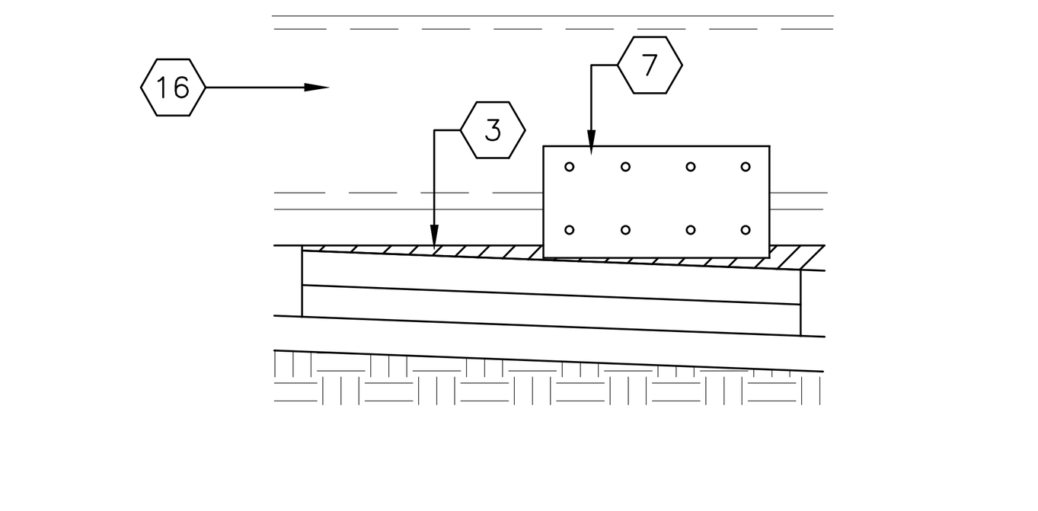
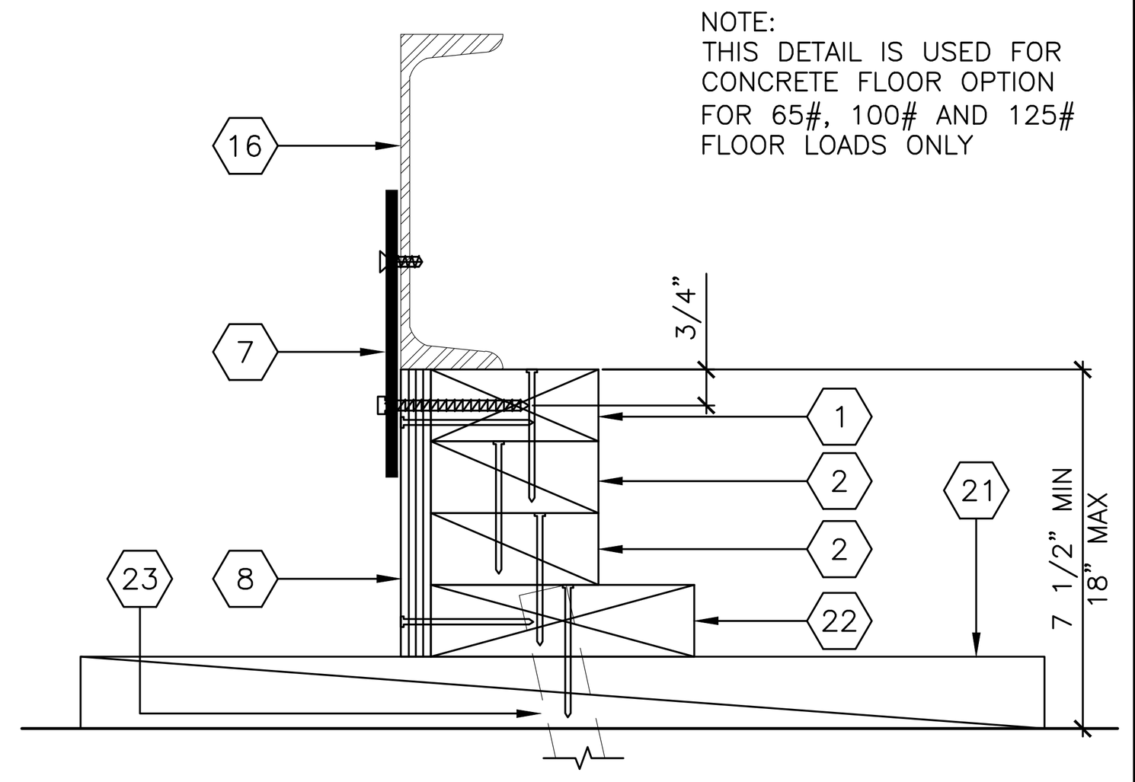
P1.0-PS

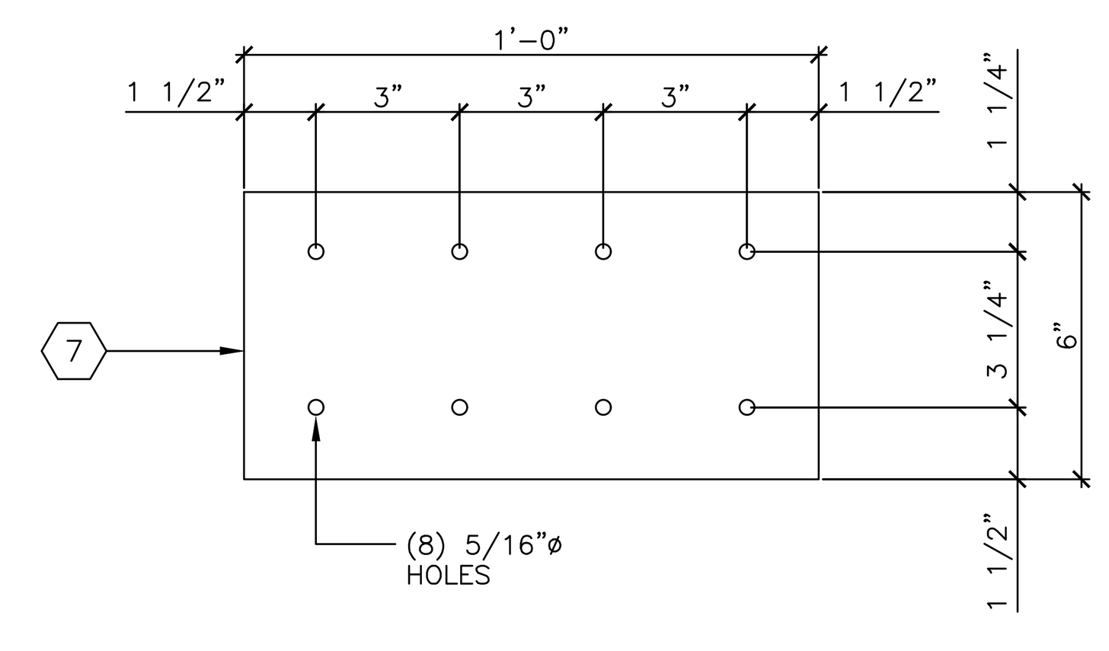


SHIMMING
SCALE: NTS
13



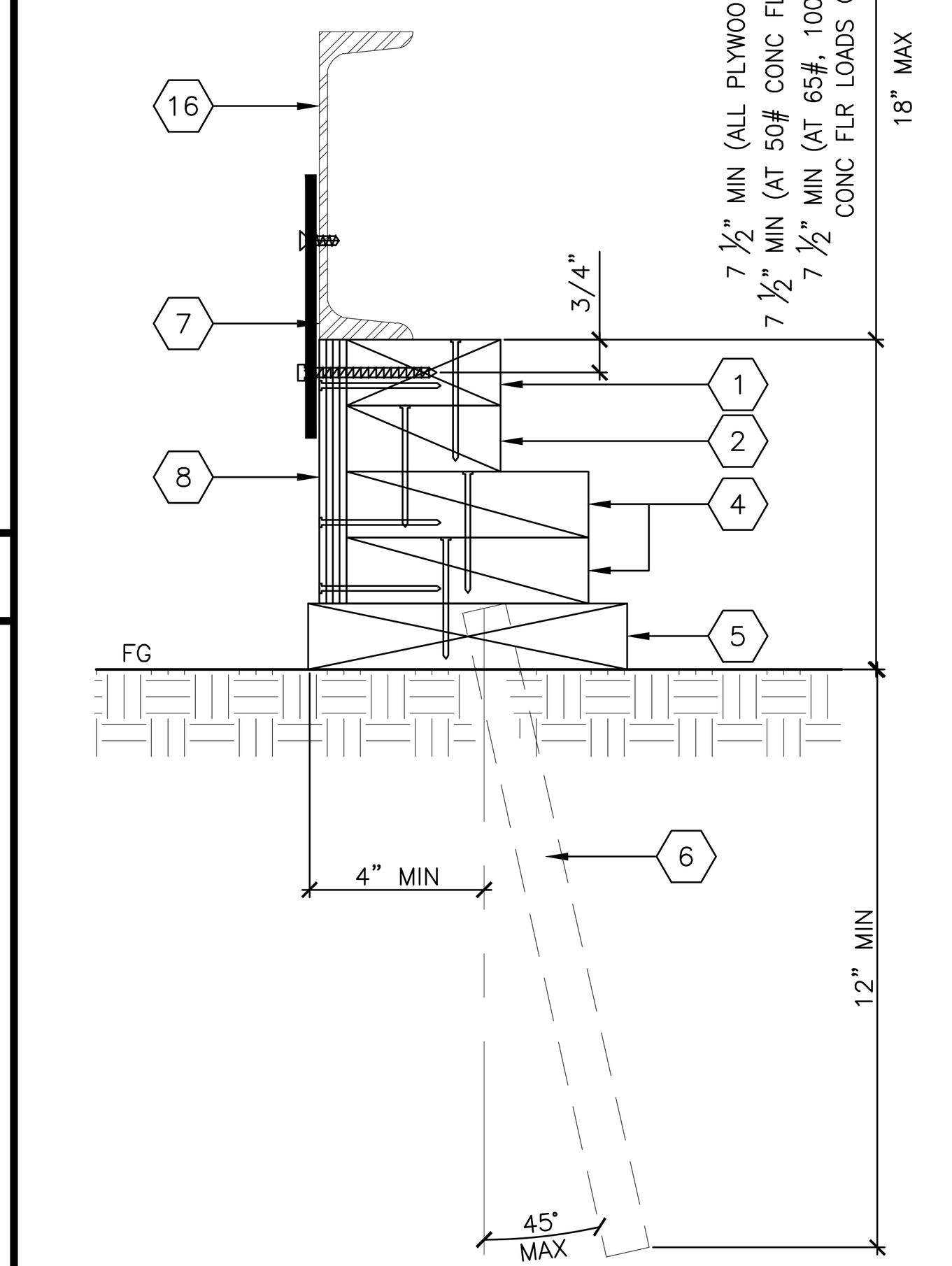
NOTE:
THIS DETAIL IS USED FOR CONCRETE FLOOR OPTION FOR 65#, 100# AND 125# FLOOR LOADS ONLY

PERIMETER–SIDE BY SIDE SILL PLATE (CONCRETE FLOORS)
SCALE: 3" = 1'–0"
9



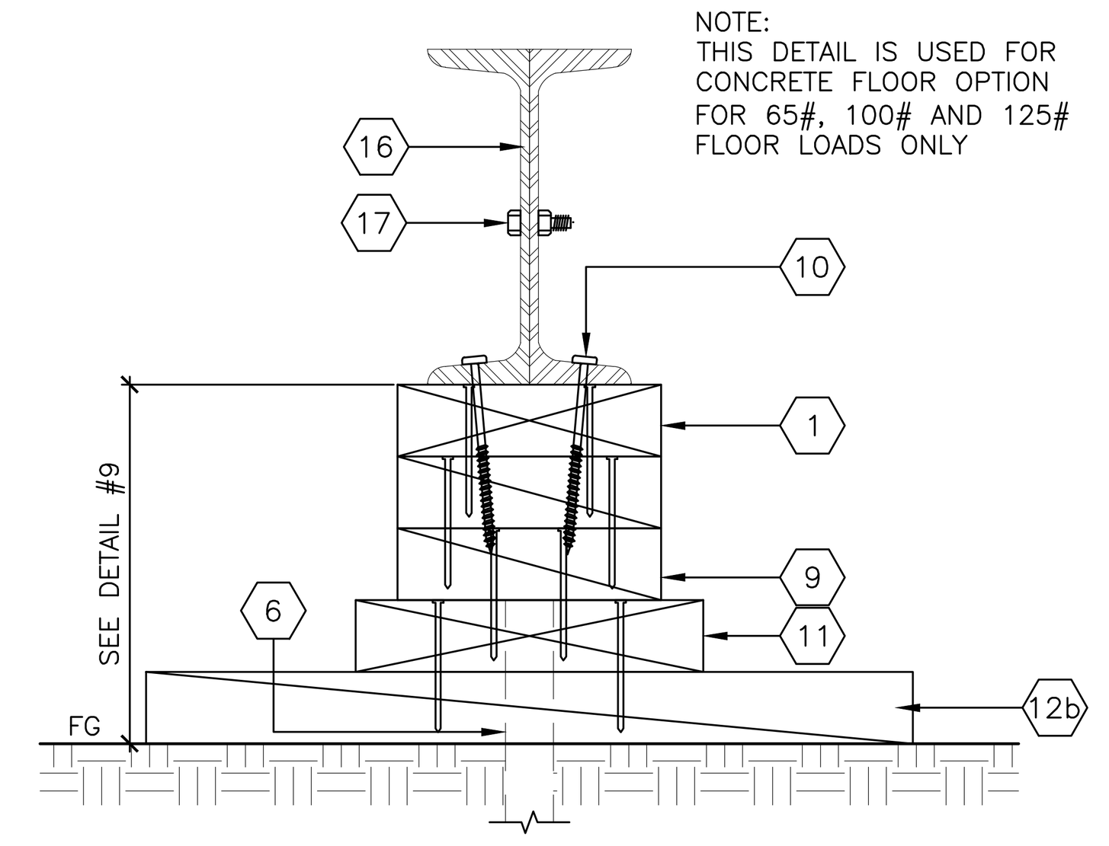
TYP TIE PLATE
SCALE: 3" = 1'–0"
5

NOTE:
ADDITIONAL PLATE FOR REQ FOR CONCRETE FLOOR OPTION NOT SHOWN FOR CLARITY



TYPICAL PERIMETER DETAIL
SCALE: 3" = 1'–0"
1

NOTE:
THIS DETAIL IS USED FOR CONCRETE FLOOR OPTION FOR 65#, 100# AND 125# FLOOR LOADS ONLY

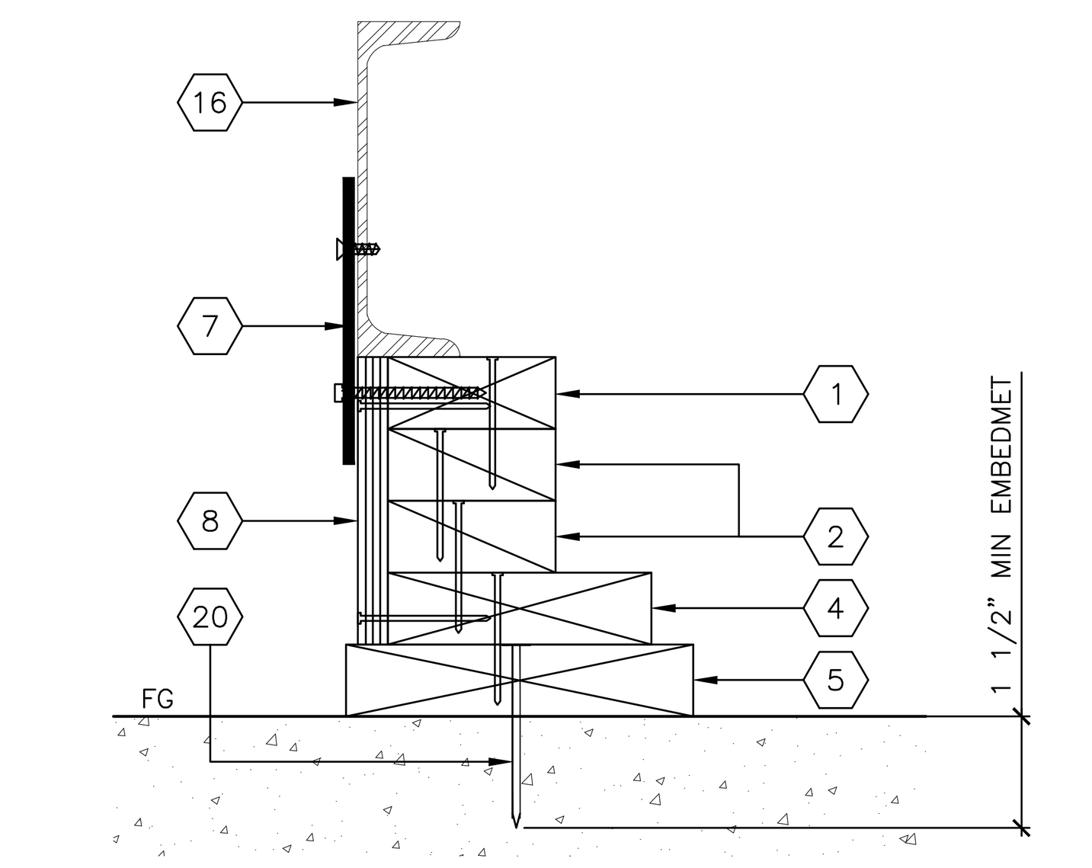


MODLINE–SIDE BY SIDE SILL PLATE (CONCRETE FLOORS)
SCALE: 3" = 1'–0"
14

NOTE:
PER DETAIL #1 OR #9 ADDITIONAL PLATE FOR REQ FOR CONCRETE FLOOR OPTION NOT SHOWN FOR CLARITY

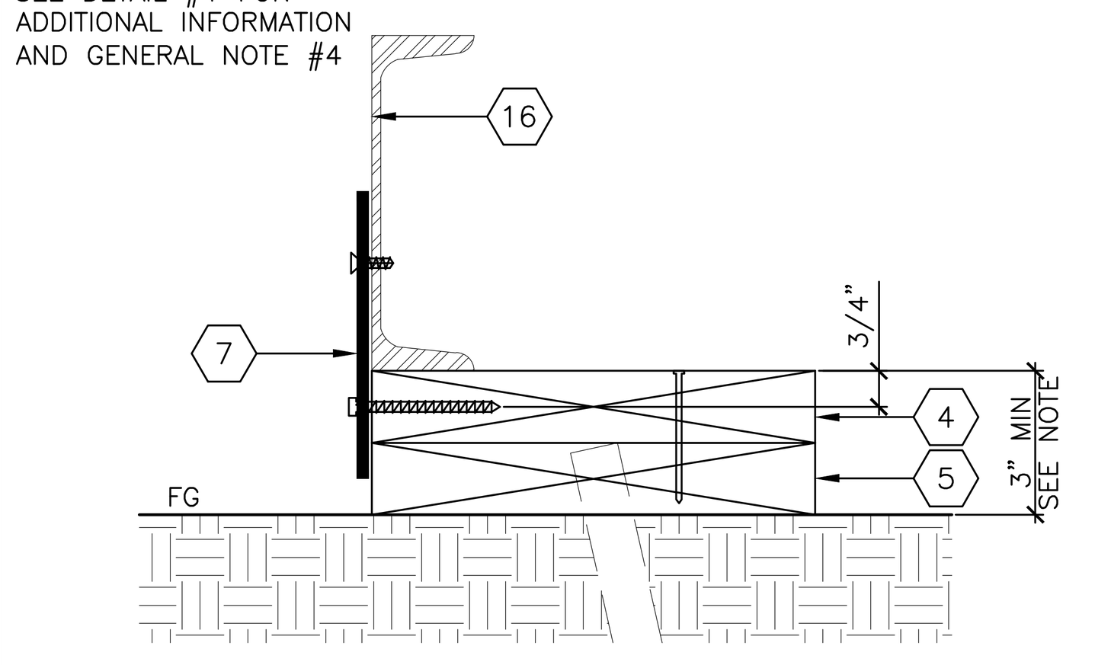
(20) SHOT PIN SPACING SCHEDULE

FLOOR LOAD		50	50+15	100	125
24'x40'	ENDWALL	10" OC	10" OC	10" OC	6" OC
	SIDEWALL	17" OC	17" OC	17" OC	10" OC
36'x40'	ENDWALL	10" OC	10" OC	10" OC	6" OC
	SIDEWALL	11" OC	11" OC	11" OC	7" OC
48'x40'	ENDWALL	10" OC	10" OC	10" OC	6" OC
	SIDEWALL	8" OC	8" OC	8" OC	5" OC



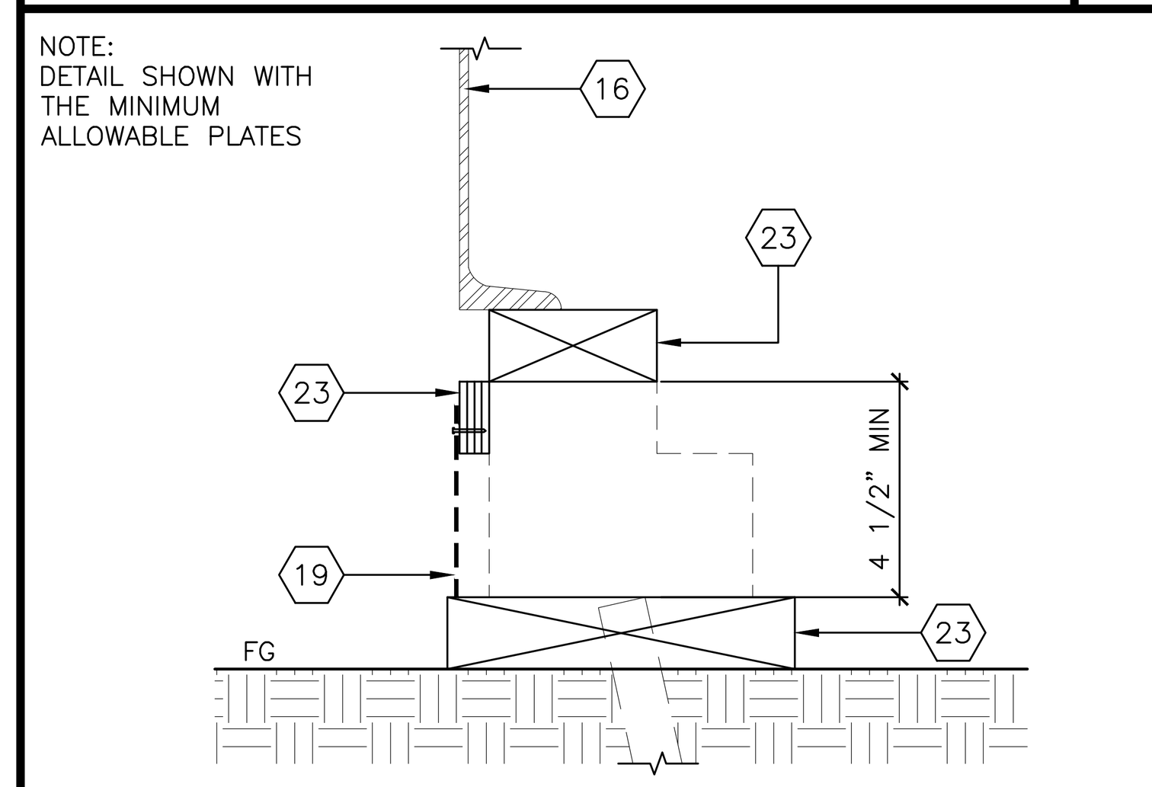
(ALT) FOUNDATION TO CONCRETE SLAB
SCALE: 3" = 1'–0"
10

NOTE:
SEE DETAIL #1 FOR ADDITIONAL INFORMATION AND GENERAL NOTE #4



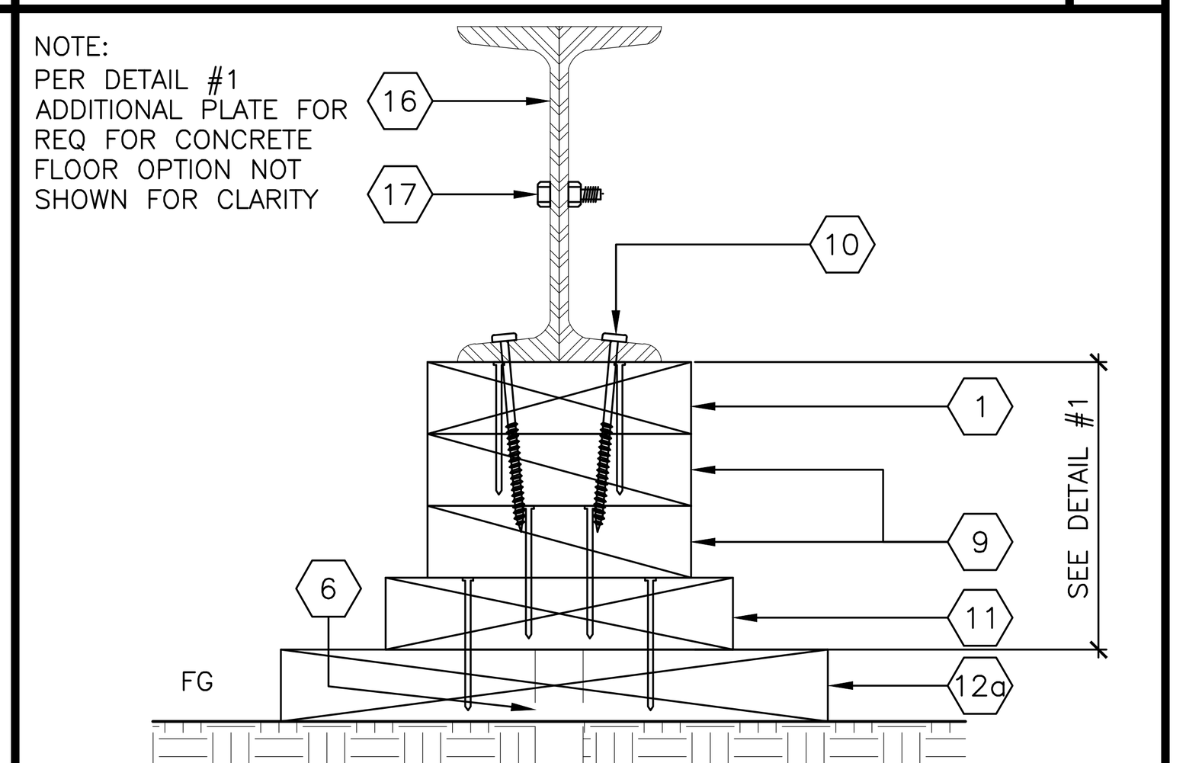
MINIMUM FOUNDATION AT SLOPE GRADE
SCALE: 3" = 1'–0"
6

NOTE:
DETAIL SHOWN WITH THE MINIMUM ALLOWABLE PLATES

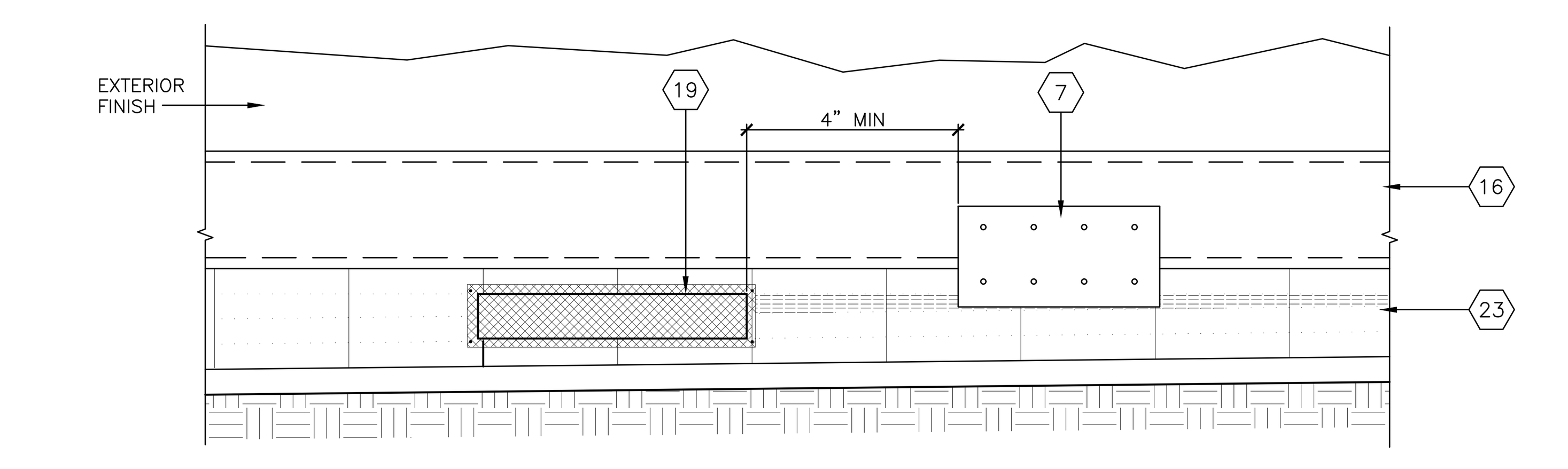


TYPICAL VENT THRU FOUNDATION
SCALE: 3" = 1'–0"
7

NOTE:
PER DETAIL #1 ADDITIONAL PLATE FOR REQ FOR CONCRETE FLOOR OPTION NOT SHOWN FOR CLARITY

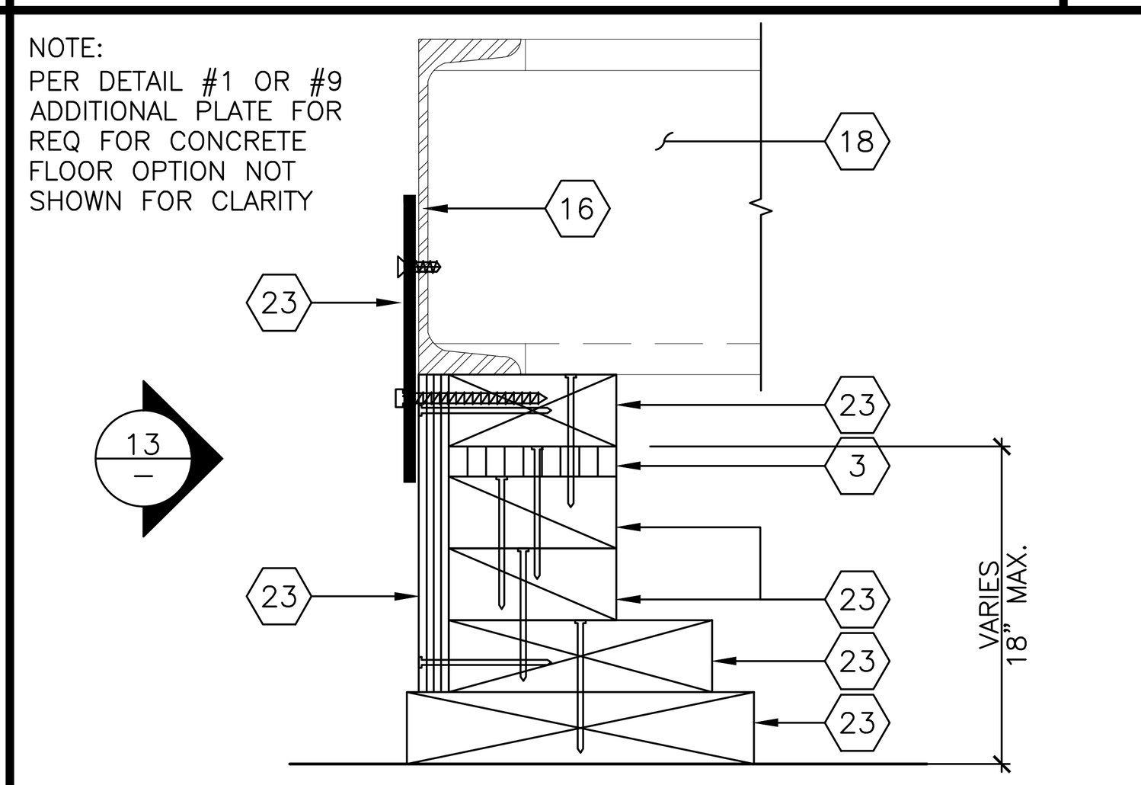


TYPICAL MODLINE
SCALE: 3" = 1'–0"
2



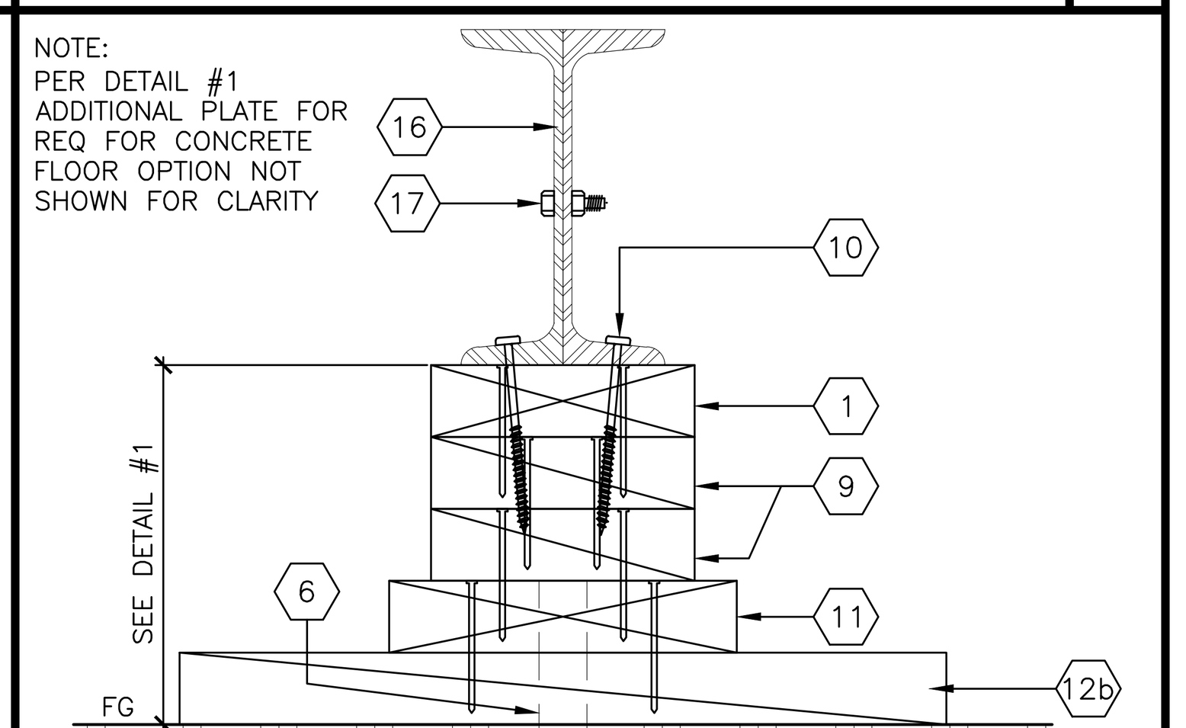
FOUNDATION EXTERIOR ELEVATION
SCALE: 1 1/2" = 1'–0"
11

NOTE:
PER DETAIL #1 OR #9 ADDITIONAL PLATE FOR REQ FOR CONCRETE FLOOR OPTION NOT SHOWN FOR CLARITY

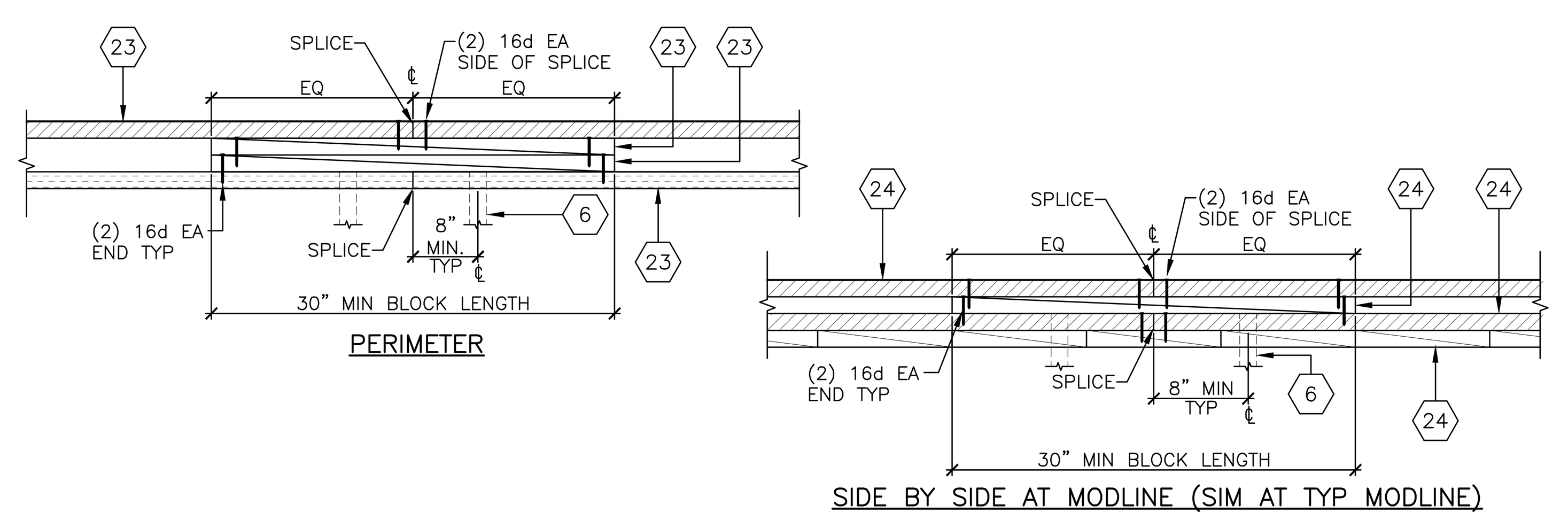


SHIMMING
SCALE: 3" = 1'–0"
8

NOTE:
PER DETAIL #1 ADDITIONAL PLATE FOR REQ FOR CONCRETE FLOOR OPTION NOT SHOWN FOR CLARITY



MODLINE–SIDE BY SIDE SILL PLATE (PLYWOOD FLOORS)
SCALE: 3" = 1'–0"
3

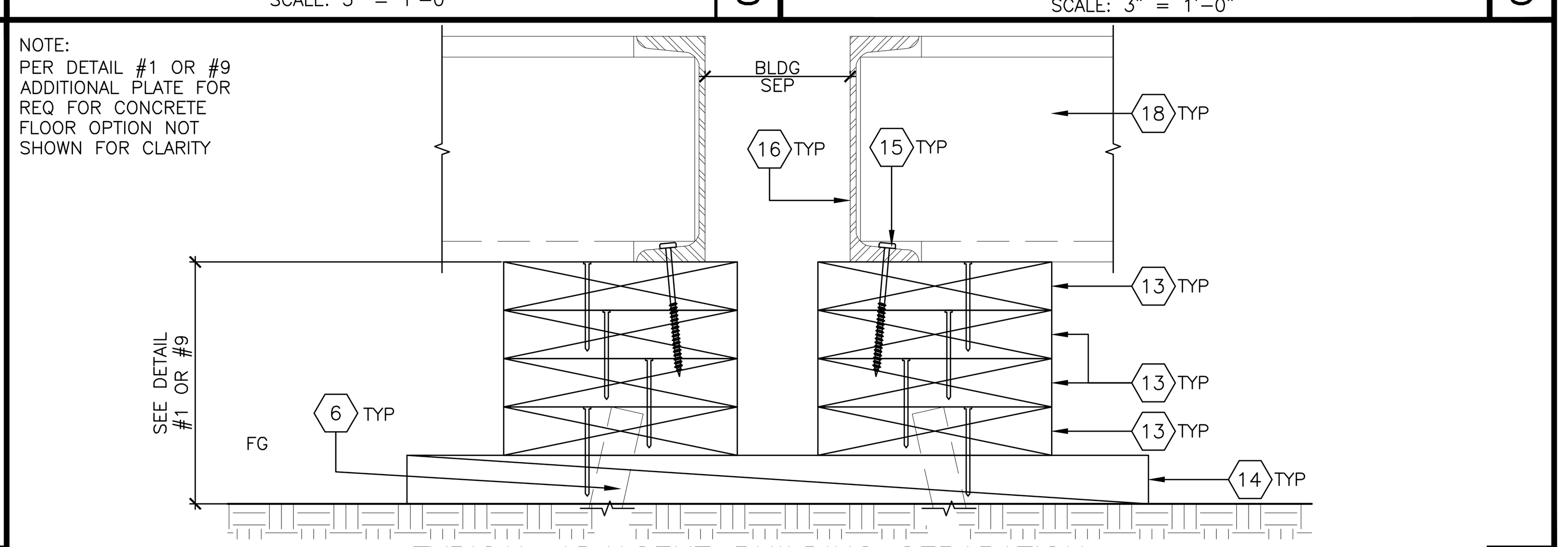


PERIMETER

SIDE BY SIDE AT MODLINE (SIM AT TYP MODLINE)

TYPICAL SPLICE DETAILS
SCALE: 3" = 1'–0"
12

NOTE:
PER DETAIL #1 OR #9 ADDITIONAL PLATE FOR REQ FOR CONCRETE FLOOR OPTION NOT SHOWN FOR CLARITY



TYPICAL ADJACENT BUILDING SEPARATION
SCALE: 3" = 1'–0"
4

KEY NOTES

1. CONTINUOUS TOP PLATE INTSALL NAIL TO EACH PAD WITH 16d BOX NAILS AT 3" OC STAGGERED & (2) 16d NAILS AT EACH END OF SPLICE, MIN 1 1/2" PENETRATION. 1–1/2" OC STAGGERED AT CONC FLOORS. 1" OC STAGGERED AT 125# CONC FLOOR ONLY
2. BLOCK PLATES FOR PLYWOOD FLOOR OPTIONS:
   24', 36' & 48' X 40' BUILDINGS – 16d BOX NAILS AT 3" OC FOR 50#, 65# & 100# FLOOR LOADS 1 1/2" OC AT 125# FLOOR LOAD (2) 16d NAILS AT EACH END

   BLOCK PLATES FOR CONCRETE FLOOR OPTIONS:
   24', 36' & 48' X 40' BUILDINGS – 16d BOX NAILS AT 1" OC FOR 50#, 65# & 100# FLOOR LOADS 1" OC AT 125# FLOOR LOAD (2) 16d NAILS AT EACH END
3. 1 1/2" MAX TAPERED SHIMS NAIL TO FOUNDATION PLATES WITH 16d BOX NAILS AT 3" OC NAIL STAGGERED ALONG EACH TAPERED SHIM (PER SLOPE OF GROUND AT SITE)
4. BLOCK PLATE, PLATE 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 PLATE SPLICES SHALL OCCUR AT CENTER OF BLOCK PLATE LOCATION
6. 1"ø x 19" STANDARD WEIGHT HOT DIPPED GALVANIZED PIPE AT 10'–0" OC MAX, 2'–0" MAX FROM EACH CORNER IN BOTH DIRECTIONS AND A MINIMUM OF TWO PIPES PER DISCONTINUE FOUNDATION STRIP PER DSA IR 16–1.13 SECTION 4.8. DRILL SILL PLATE 1 1/2"ø MAX HOLE PIPE SHOULD PENETRATE INTO SOIL AND/OR PAVING A MIN OF 12" MEASURED VERTICALLY PIPES SHALL BE INSTALLED ON A CONTINUOUS PLATE. PIPE SHALL BE STAMPED WITH ASTM A53 GRADE 'A' OR 'B' AND MEET THE REQUIREMENTS OF ASTM A123
7. 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 STS 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
8. 5/8" PLYWOOD PERIMETER SKIRTING. NAIL TO FOUNDATION PLATES WITH 8d BOX NAILS @ 12" OC TOP AND BOTTOM
9. MODLINE–BLOCK PLATE NAIL BLOCKS TOGETHER WITH (2) 16d BOX NAILS @ 3" OC AND (2) 16d NAILS AT EACH END
10. 5/8"ø X 4" LAG BOLT AT MODLINE (SEE LAG SCHEDULE FOR AMOUNT). LAG SCREW SHALL BE INSTALLED VERTICALLY OR AT A MAXIMUM 45 DEGREES
11. MODLINE–CONTINUOUS PLATE NAIL (2) 16d @ 3" OC AND (2) 16d NAILS AT EACH END

12a. MODLINE–CONTINUOUS PRESSURE TREATED SILL PLATE FOR PLATE SPLICES SHALL OCCUR AT CENTER OF BLOCK LOCATIONS

12b. MODLINE–SIDE BY SIDE PRESSURE TREATED SILL PADS

13. BUILDING SEPARATION–CONTINUOUS PLATE. REFER TO KEYNOTE #2 FOR NAILING
14. BUILDING SEPARATION–SIDE BY SIDE PRESSURE TREATED SILL PADS (SEE BUILDING SEPARATION SCHEDULE FOR QUANTITY)
15. 11/16"ø HOLE IN FLOOR JOIST FOR 5/8"ø x 4" LAG SCREW (SEE LAG SCHEDULE FOR AMOUNT)
16. FLOOR CHANNEL (SEE STRUCTURAL FLOOR FRAMING SHEET)
17. MACHINE BOLT (SEE STRUCTURAL BUILDING SECTION SHEET FOR SPACING)
18. FLOOR JOIST OR BLOCK
19. VENT SCREEN ATTACHED TO FOUNDATION W/ #8 SCREWS AT EACH CORNERS. COORDINATE WITH FOUNDATION PLAN TABLE FOR MAX SPACE BETWEEN FOUNDATION BLOCKS & BUILDING VENTILATION TABLE FOR VENTING REQUIREMENTS TO DETERMINE SIZE OF NET OPENING. VENTING SCREEN SHALL BE 2" LARGER THAN THE SIZE OF THE NET OPENING FOR THE SCREEN TO BE FASTENED ON EACH CORNER. VENTILATION SHALL BE PROVIDED AT A NET AREA OF NOT LESS THAN 1 SQUARE FOOT FOR EACH 150 SQUARE FEET OF UNDER FLOOR AREA
20. 0.145"ø X 2–7/8" LONG X–CP 72 'HILTI' SHOT PIN PER ICC REPORT #ESR–2379 (SEE SCHEDULE FOR QUANTITY, STAGGER SPACING)
21. BOTTOM SILL PLATES SIDE BY SIDE
22. CONTINUOUS PLATE PER SCHEDULE ON FOUNDATION PLAN
23. PER DETAIL #1
24. PER DETAIL #3

GENERAL NOTES:

1. CONTINUOUS PLATES, OTHER THAN TOP OR BOTTOM PLATE, CAN BE CUT AS NECESSARY FOR VENTING PURPOSES
2. SEE INDIVIDUAL FOUNDATION SHEETS FOR ALL PLATE, BLOCKS AND SILL PLATE SIZES AS REQUIRED FOR FLOOR LIVE LOAD DESIGN
3. BLOCKS ABOVE SILL PLATES ARE TO BE CENTERED
4. FOR PROJECT SPECIFIC VARIES SITE GRADE CONDITIONS, DETAIL #6/– SHALL ONLY APPLY AT MAX TWO BUILDING CORNERS (WHEN NECESSARY) TO ALLOW VENTILATION AT OTHER SIDES OF THE BUILDING. WHEN APPLICABLE (EITHER AT ONE OR TWO BUILDING CORNERS), VERIFY PROPER VENTILATION REQUIREMENTS. IF MIN VENTILATION IS NOT MET, SITE GRADE CONDITION MUST BE RE–GRADED (BY DISTRICT)

PROJECT SPECIFIC STATE AGENCY APPROVAL

GLOBAL MODULAR Incorporated

AURORA DESIGNS / MODTECH Designs / MODULAR STRUCTURES INTERNATIONAL, INC. DESIGNS

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PROJECT NAME:

SHEET TITLE:

WOOD PAD FOUNDATION DETAILS

PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120340 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 07/18/2022

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

No.3602 STRUCTURAL STATE OF CALIFORNIA

Date Signed: February 7, 2022

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

LICENSED ARCHITECT C-14456 2/2023 STATE OF CALIFORNIA

ARCHITECT OF RECORD

LICENSED ARCHITECT AMMAR NAJI SARSAM C-30902 12/31/2023 RENEWAL DATE STATE OF CALIFORNIA

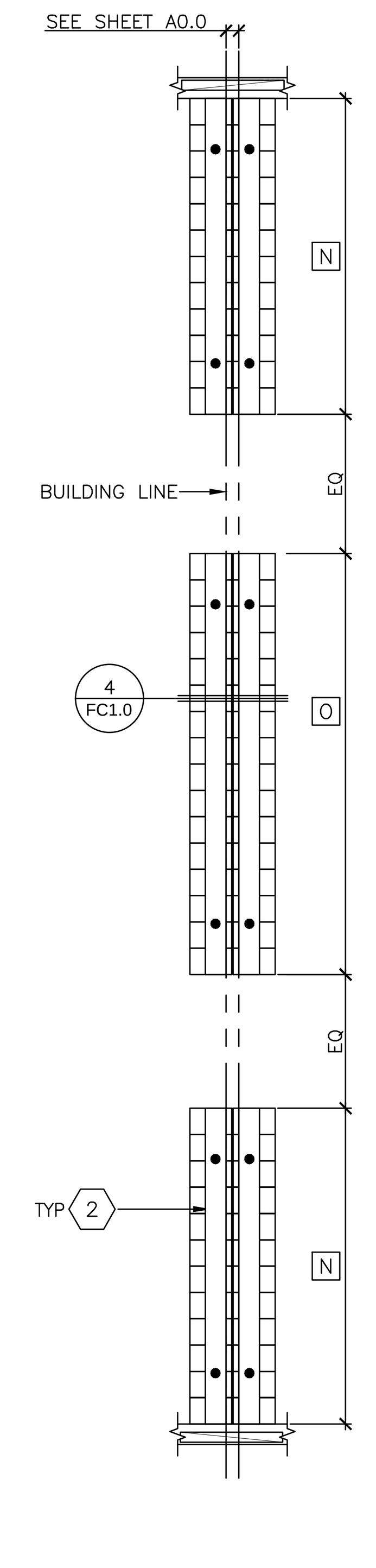
REVISIONS

1	-
2	-
3	-
4	-

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

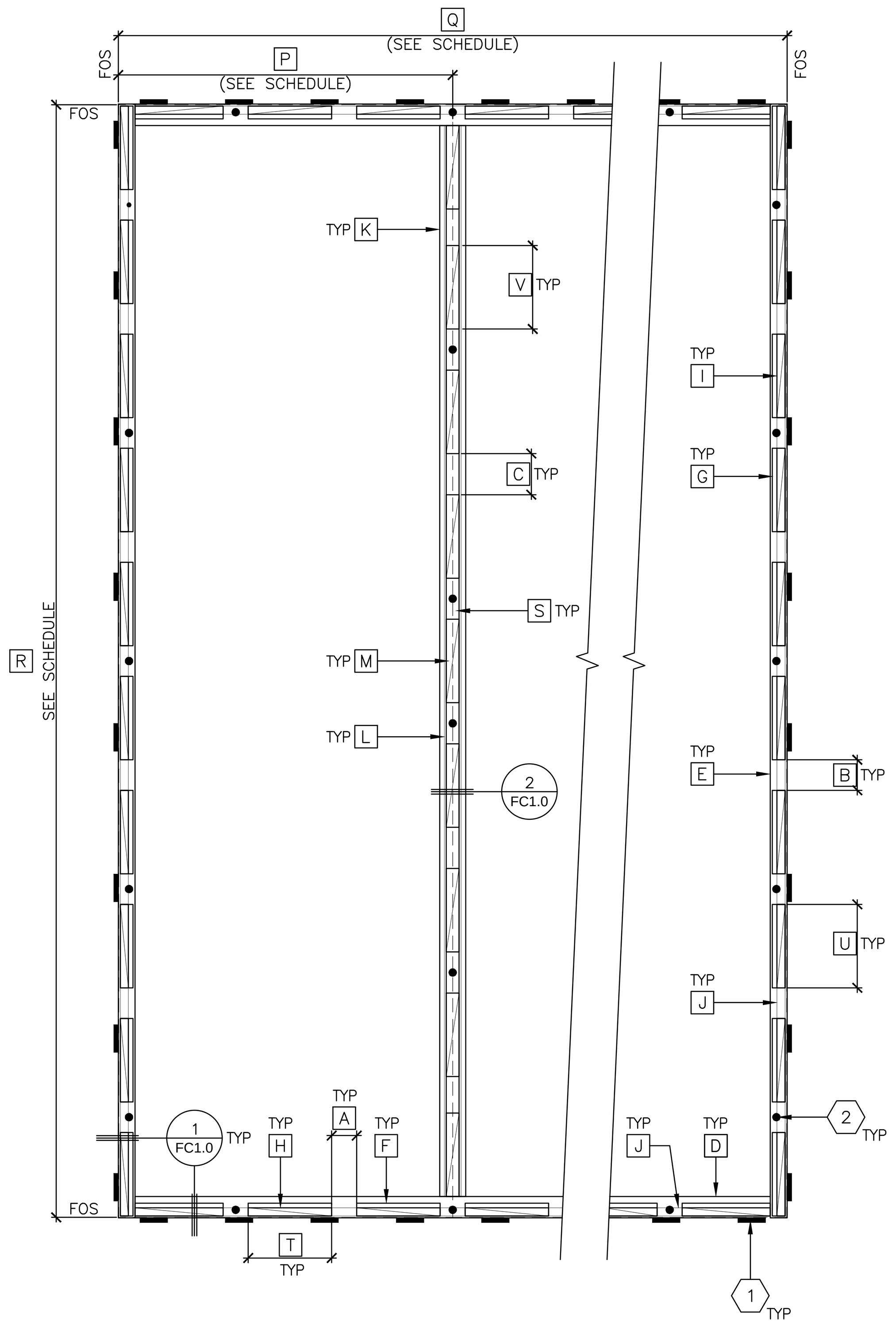
SHEET NUMBER

FC1.0

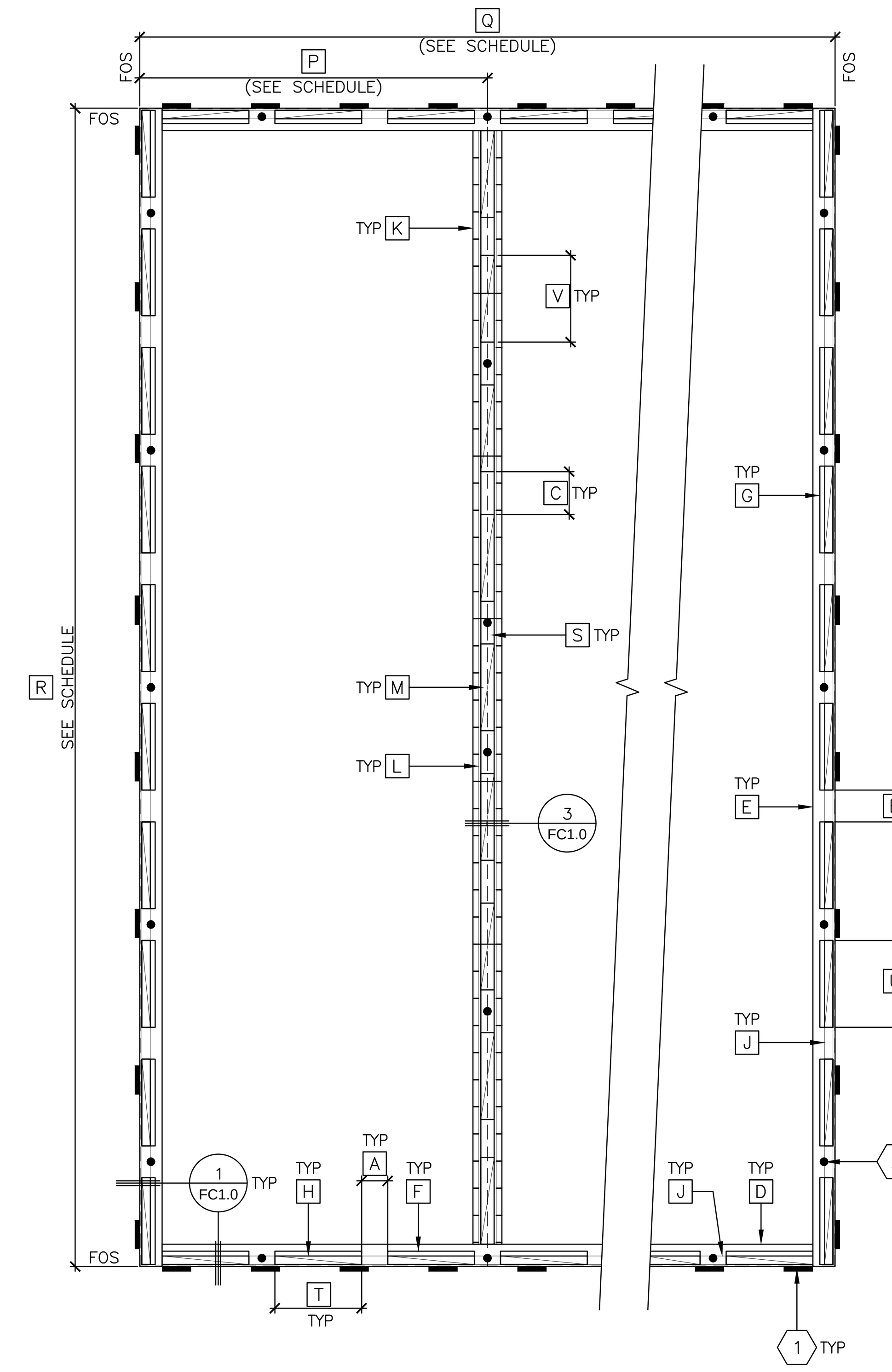


50, 50+15, 100 & 125 PSF FLL ADJACENT FOUNDATION PLAN

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



50 PSF



50+15, 100 & 125 PSF

FOUNDATION PLAN

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

KEY NOTES

1. TIE PLATE (SEE SCHEDULE FOR QUANTITY)
2. GALVANIZED PIPE (SEE WOOD PAD FOUNDATION DETAILS SHEET)

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 (2) SIDES FOR CROSS VENTILIZATION
6. THE ENDWALL SIDE MUST BE VENTED
7. 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. DRAINAGE SHALL BE PROVIDED TO PREVENT WATER PONDING BENEATH BUILDINGS. IF THE BUILDING IS PLACED ON RAISED WOOD FOUNDATIONS, SUCH AS WOOD SLEEPERS PLACED ON GROUND OR ASPHALT THAT IS PLANAR (I.E., NOT LOWERED BELOW ADJACENT GRADE), SLOPED DRAINAGE IS NOT REQUIRED WAY FROM THE BUILDING IF THERE IS ADEQUATE SLOPE AT THE SITE TO PREVENT WATER FROM PONDING BENEATH AND IMMEDIATELY ADJACENT TO BUILDINGS. FOR OTHER CONDITIONS, SUCH AS LOWERED BASIN UNDER BUILDING OR CONCRETE FOUNDATIONS, SLOPED DRAINAGE SHALL BE PROVIDED AWAY FROM THE BUILDING IN ACCORDANCE WITH CBC SECTION 1804A.4.

SCHEDULES

(☐=REF LETTERS TO SCHEDULES BELOW TYP)

MAX SPACE BETWEEN FOUNDATION BLOCKS

	FLOOR LIVE LOAD PSF	50	50+15	100	125
A	END WALL	16"	19"	20"	20"
B	SIDE WALL	16"	19"	20"	20"
C	MODLINE	19"	14"	13"	12"

WOOD PAD FOUNDATION (PERIMETER)

	FLOOR LIVE LOAD PSF	50	50+15	100	125
D	SILL PLATE (END WALL)	2x10 CONT	2x10 CONT	2x12 CONT	2x12 CONT
E	SILL PLATE (SIDE WALL)	2x8 CONT	2x10 CONT	2x12 CONT	2x12 CONT
F	BLOCK PLATE (END WALL)	2x6	2x6	2x6	2x6
G	BLOCK PLATE (SIDE WALL)	2x6	2x6	2x6	2x6
H	BLOCKPLATE (END WALL)	2x6	2x6	2x6	2x6
I	BLOCKPLATE (SIDE WALL)	2x6	2x6	2x6	2x6
J	CONT. TOP PLATE	2x6	2x6	2x6	2x6

WOOD PAD FOUNDATION (MODLINE)

		50	50+15	100	125
K	SILL PLATE	2x12 CONT	2x12 16" S/S	2x12 18" S/S	2x12 20" S/S
L	CONTINUOUS PLATE	2x8 CONT	2x8	2x8	2x8
M	BLOCK PLATE	2x6	2x6	2x6	2x6
S	TOP PLATE	2x6 CONT	2x6 CONT	2x6 CONT	2x6 CONT

ADJACENT BUILDING SEPARATION

	50 PSF	
N	SILL PLATE	(10) 2x10 x 24"L
N	CONTINUOUS PLATES	2x8 x 7'-8 1/2"L
O	SILL PLATE	(12) 2x10 x 24"L
O	CONTINUOUS PLATES	2x8 x 9'-3"L
	50+15 PSF	
N	SILL PLATE	(12) 2x10 x 30"L
N	CONTINUOUS PLATES	2x8 x 9'-3"L
O	SILL PLATE	(16) 2x10 x 30"L
O	CONTINUOUS PLATES	2x8 x 12'-4"L
	100 PSF	
N	SILL PLATE	(13) 2x10 x 30"L
N	CONTINUOUS PLATES	2x10 x 10'-0 1/4"L
O	SILL PLATE	(16) 2x10 x 30"L
O	CONTINUOUS PLATES	2x10 x 12'-4"L
	125 PSF	
N	SILL PLATE	(14) 2x10 x 30"L
N	CONTINUOUS PLATES	2x10 x 10'-9 1/2"L
O	SILL PLATE	(17) 2x10 x 30"L
O	CONTINUOUS PLATES	2x10 13'-1 1/4"L

TOTAL FOUNDATION FOS TO FOS

	50 PSF	24'x40'	36'x40'	48'x40'
P	LH OR RH MODULE	12'-0 1/4"	12'-0 1/4"	12'-0 1/4"
Q	END WALL WIDTH	24'-1/2"	36'-1/2"	48'-1/2"
R	SIDE WALL LENGTH	40'-0 1/2"	40'-0 1/2"	40'-0 1/2"
	50+15 PSF	**24'x40'**	**36'x40'**	**48'x40'**
P	LH OR RH MODULE	12'-0 3/8"	12'-0 3/8"	12'-0 3/8"
Q	END WALL WIDTH	24'-3/4"	36'-3/4"	48'-3/4"
R	SIDE WALL LENGTH	40'-0 3/4"	40'-0 3/4"	40'-0 3/4"
	100 PSF	**24'x40'**	**36'x40'**	**48'x40'**
P	LH OR RH MODULE	12'-0 3/8"	12'-0 3/8"	12'-0 3/8"
Q	END WALL WIDTH	24'-3/4"	36'-3/4"	48'-3/4"
R	SIDE WALL LENGTH	40'-0 3/4"	40'-0 3/4"	40'-0 3/4"
	125 PSF	**24'x40'**	**36'x40'**	**48'x40'**
P	LH OR RH MODULE	12'-0 3/8"	12'-0 3/8"	12'-0 3/8"
Q	END WALL WIDTH	24'-3/4"	36'-3/4"	48'-3/4"
R	SIDE WALL LENGTH	40'-0 3/4"	40'-0 3/4"	40'-0 3/4"

TIE PLATE SCHEDULE

BUILDING SIZE	FLOOR LOAD PSF	PLATES PER EA SIDE OF BLDG EQ SPACED	GRAND TOTAL
24'x40'	50	8	32
	50+15	8	32
	100	8	32
	125	15	60
36'x40'	50	11	44
	50+15	11	44
	100	11	44
	125	21	84
48'x40'	50	15	60
	50+15	15	60
	100	15	60
	125	27	108

LAG SCH (MODLINE OR SEP)

BUILDING SIZE	FLOOR LOAD PSF	PER EA SIDE OF MODULE
24'x40'	50	8
	50+15	8
	100	8
	125	13
36'x40'	50	10
	50+15	10
	100	10
	125	19
48'x40'	50	14
	50+15	14
	100	14
	125	25

MIN FOUNDATION BLOCK SIZES

	24'x40'		36'x40'		48'x40'	
	FLOOR LIVE LOAD PSF	50 PSF	FLOOR LIVE LOAD PSF	50 PSF	FLOOR LIVE LOAD PSF	50 PSF
T	END WALL	2'-10 3/4"	END WALL	2'-9 7/8"	END WALL	2'-9 3/8"
U	SIDE WALL	2'-9 5/8"	SIDE WALL	2'-9 5/8"	SIDE WALL	2'-9 5/8"
V	MODLINE	2'-10 3/8"	MODLINE	2'-10 3/8"	MODLINE	2'-10 3/8"
	FLOOR LIVE LOAD PSF	50+15 PSF	FLOOR LIVE LOAD PSF	50+15 PSF	FLOOR LIVE LOAD PSF	50+15 PSF
T	END WALL	2'-8 3/8"	END WALL	2'-7 1/4"	END WALL	2'-6 5/8"
U	SIDE WALL	2'-7"	SIDE WALL	2'-7"	SIDE WALL	2'-7"
V	MODLINE	3'-3"	MODLINE	3'-3"	MODLINE	3'-3"
	FLOOR LIVE LOAD PSF	100 PSF	FLOOR LIVE LOAD PSF	100 PSF	FLOOR LIVE LOAD PSF	100 PSF
T	END WALL	2'-7 1/2"	END WALL	2'-6 3/8"	END WALL	2'-5 3/4"
U	SIDE WALL	2'-6 1/8"	SIDE WALL	2'-6 1/8"	SIDE WALL	2'-6 1/8"
V	MODLINE	3'-3 1/2"	MODLINE	3'-3 1/2"	MODLINE	3'-3 1/2"
	FLOOR LIVE LOAD PSF	125 PSF	FLOOR LIVE LOAD PSF	125 PSF	FLOOR LIVE LOAD PSF	125 PSF
T	END WALL	2'-7 1/2"	END WALL	2'-6 3/8"	END WALL	2'-5 3/4"
U	SIDE WALL	2'-6 1/8"	SIDE WALL	2'-6 1/8"	SIDE WALL	2'-6 1/8"
V	MODLINE	3'-4 1/2"	MODLINE	3'-4 1/2"	MODLINE	3'-4 1/2"

STAND–ALONE BUILDING VENTILATION

REQUIRED VENTILATION	MIN VENT PER END WALLS	MIN VENT PER SIDE WALLS
24'x40' = 6.4 SF	4	10
36'x40' = 9.6 SF	6	12
48'x40' = 12.8 SF	8	18

VENT END WALL [A] 4 1/2" (0.375 HT FT) x16" L = 0.5 SF AREA

VENT SIDE WALL [B] 4 1/2" (0.375 HT FT) x16" L = 0.5 SF AREA

125 PSF VENTING NOTE:

CLASS 1 VAPOR RETARDER 15–MIL WITH A PERMEANCE BELOW 0.01 PER CBC 1202.4.1.2
24x40=960 SF/1500 SF = 0.64 SF VENT REQ. / 0.45 = 2 TOTAL VENTS
36x40=1440 SF/1500 SF = 0.96 SF VENT REQ. / 0.45 = 3 TOTAL VENTS
48x40=1920 SF/1500 SF = 1.28 SF VENT REQ. / 0.45 = 3 TOTAL VENTS

PROJECT SPECIFIC STATE AGENCY APPROVAL

GLOBAL MODULAR Incorporated

AURORA™ DESIGNS — MODTECH Designs — MODULAR STRUCTURES INTERNATIONAL, INC. DESIGNS

CONTRACTORS LICENSE #837357

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PROJECT NAME:

SHEET TITLE:

WOOD PAD FOUNDATION PLAN
PLYWOOD FLOOR

PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120340 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 07/18/2022

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER — JAMES T. SIMPSON — No.3602 — STRUCTURAL — STATE OF CALIFORNIA

Date Signed: February 7, 2022

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

LICENSED ARCHITECT — ROBERT ESPINOZA — C-14456 — 2/2023 RENEWAL DATE — STATE OF CALIFORNIA

ARCHITECT OF RECORD

LICENSED ARCHITECT — AMMAR NAJI SARSAM — C-30902 — 12/31/2023 RENEWAL DATE — STATE OF CALIFORNIA

REVISIONS

1	-
2	-
3	-
4	-

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

FC1.1

BUILDING CODES AND STANDARDS

2001 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR)

2001 CALIFORNIA BUILDING CODE VOLUMES 1, 2 AND 3 (PART 2 TITLE 24, CCR) (1997 EDITION UNIFORM BUILDING CODE WITH 2001 CALIFORNIA AMENDMENTS)

2001 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR) (1999 EDITION NATIONAL ELECTRICAL CODE WITH 2001 AMENDMENTS)

2001 CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24, CCR) (2000 EDITION IAPMO UNIFORM MECHANICAL CODE WITH 2001 CALIFORNIA AMENDMENTS)

2001 CALIFORNIA PLUMBING CODE (PART 5, TITLE 24, CCR) (2000 EDITION IAMPO UNIFORM PLUMBING CODE WITH 2001 CALIFORNIA AMENDMENTS)

2001 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR)

2001 CALIFORNIA ELEVATOR SAFETY CONSTRUCTION CODE (PART 7, TITLE 24, CCR)

2001 CALIFORNIA FIRE CODE (PART 9, TITLE 24, CCR)

2001 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR)

NFPA 13, 1999 EDITION, THE INSTALLATION OF AUTOMATIC SPRINKLER SYSTEMS, AS AMENDED

NFPA 14, 2000 EDITION, INSTALLATION OF STANDPIPE, PRIVATE HYDRANT AND HOSE SYSTEMS

NFPA 24, 1995 EDITION, INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES

NFPA 72, 1999 EDITION, NATIONAL FIRE ALARM CODE, AS AMENDED

BUILDING DATA

OCCUPANCY:	E-2
TYPE OF CONSTRUCTION:	V-NON RATED
WIND LOAD:	80 M.P.H. EXPOSURE 'C'
OPTIONAL WIND LOAD:	
FLOOR LIVE LOAD:	50 PSF LL, 72'x40' 125 PSF LL
ROOF LIVE LOAD:	20 PSF
OPTIONAL ROOF LIVE LOAD:	
BUILDING AREA:	72'x40'=2,880 SQ. FT., 36'x40'=1,440 SQ. FT., 24'x40'=960 SQ. FT.
STRUCTURAL DESIGN:	RIGID FRAME WITH CLEAR SPAN TRUSS
MODULES:	12'x40'
ENERGY COMPLIANCE:	CLIMATE ZONE 1 THRU 16
SEISMIC ZONE:	4
SEISMIC NEAR SOURCE FACTORS:	Z=0.4, P=1.0, Ca=0.44xNa, Na=1.5 REDUCED TO 1.1 PER TITLE 24 SEC. 1629A.4.2 I=1.0, R=4.5, Cv=0.64xNv, Nv=2.0

NOTES:

THIS P.C. IS DESIGNED STRUCTURALLY TO SUPPORT THE WEIGHT OF A FIRE SPRINKLER SYSTEM.

THIS P.C. IS NOT APPROVED FOR 'A' OCCUPANCY USES.

REVISION SUMMARY LOG

REVISION	DATE	DESCRIPTION OF REVISION	SHEET #
1.	–	–	–

MANUFACTURED RELOCATABLE MODULAR BUILDINGS

72'x40', (2) 36'x40', 24'x40'

TERRA NOVA CLASSROOMS

BASED ON PC 4-104778

MSI

MODULAR STRUCTURES INTERNATIONAL Inc.

920 CITRUS AVE. RIVERSIDE, CA. 92507
(909) 788-3035

DRAWING INDEX

LICENSED ARCHITECT · STATE OF CALIFORNIA

ARCHITECT STAMP

DATE SIGNED JUN 04 2003

LICENSE EXPIRES 6-30-2004

STRUCTURAL ENGINEER STAMP

IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT

APPL 01 105425

AC ___ FLS ___ SS ___

DATE ___

STATE AGENCY STAMP

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

4-104778

AC ___ FLS ___ SS ___

DATE: ___

STATE AGENCY STAMP

MSI

MODULAR STRUCTURES INTERNATIONAL, INC.
920 CITRUS AVE. RIVERSIDE, CALIFORNIA 92507
PHONE: (909) 788-3035 FAX: (909) 788-1523

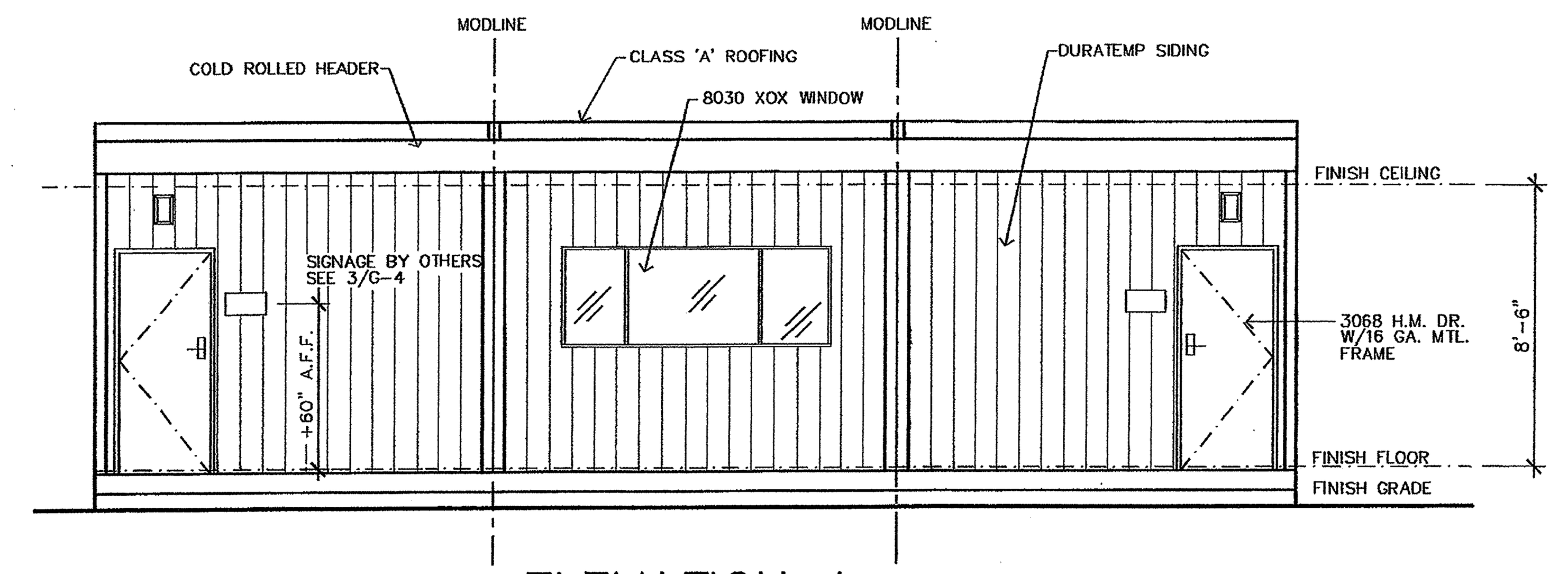
PROJECT: TERRE NOVA MODULAR CLASSROOM BUILDINGS

TITLE: COVER SHEET

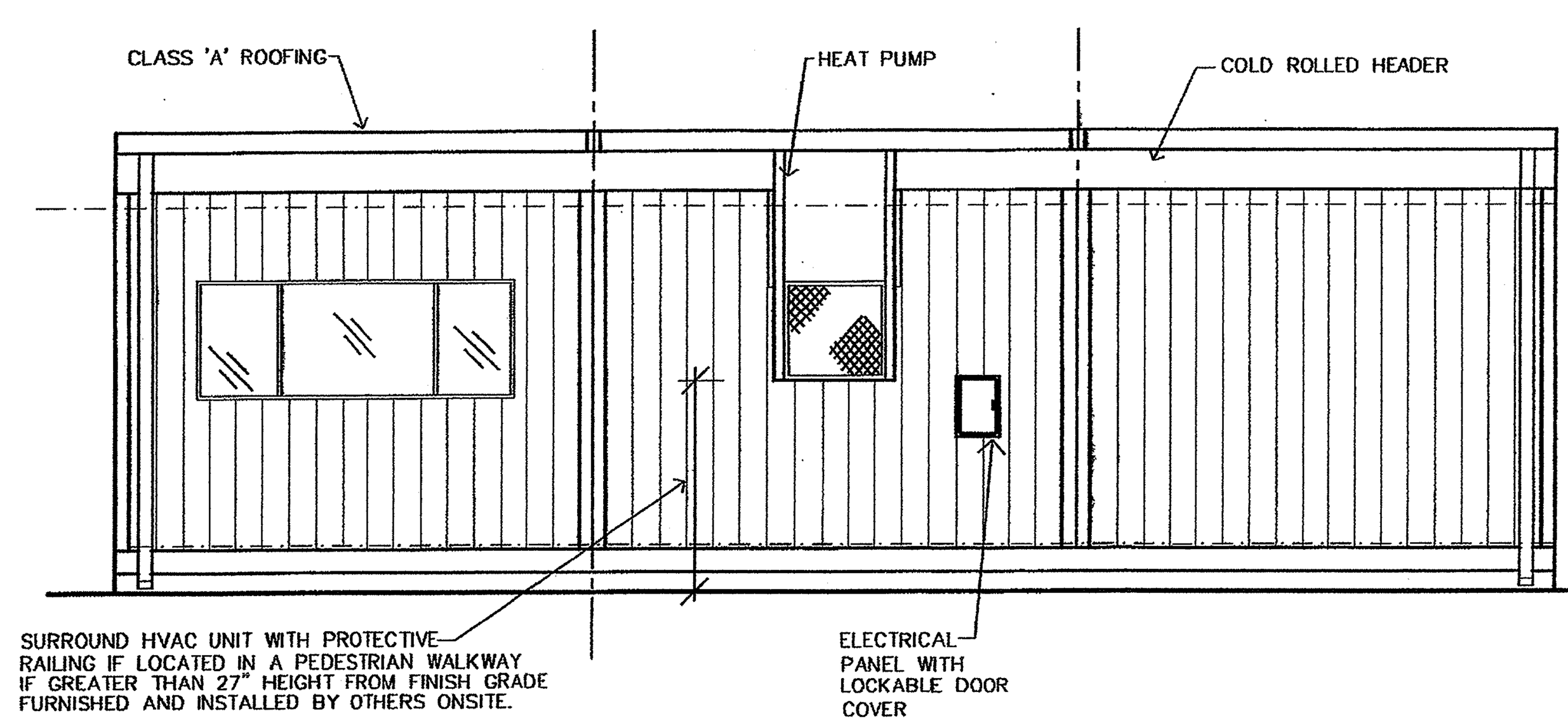
JOB #	03-1003
DATE	5-6-03
DRAWN BY	db
SCALE	AS NOTED
APPROVED	
REVISIONS	

SHEET NO.

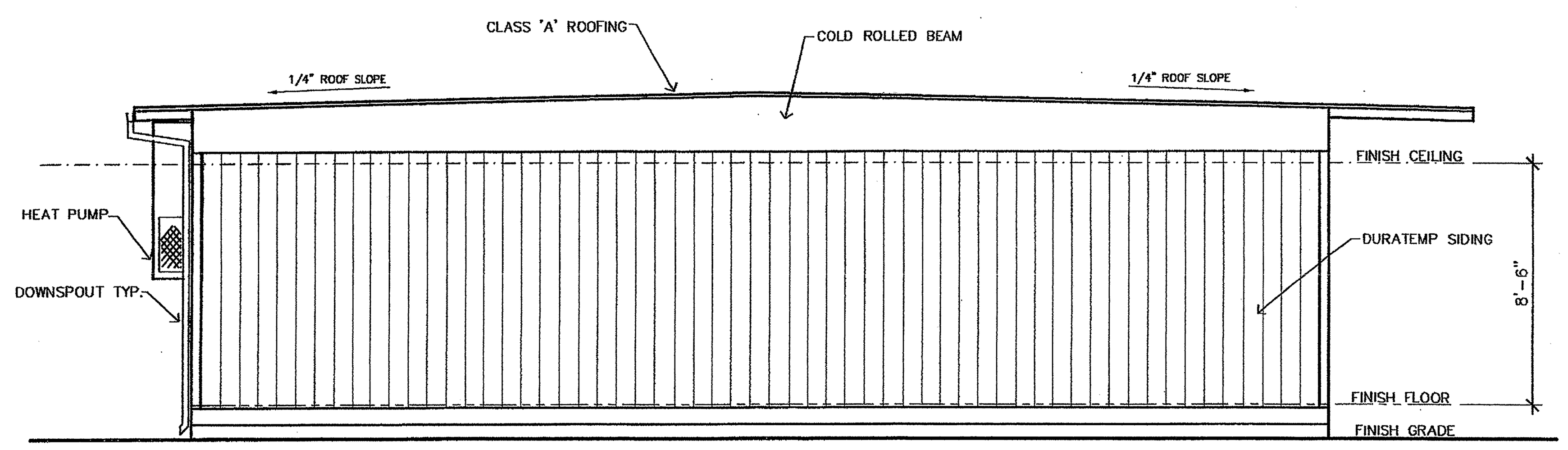
CS



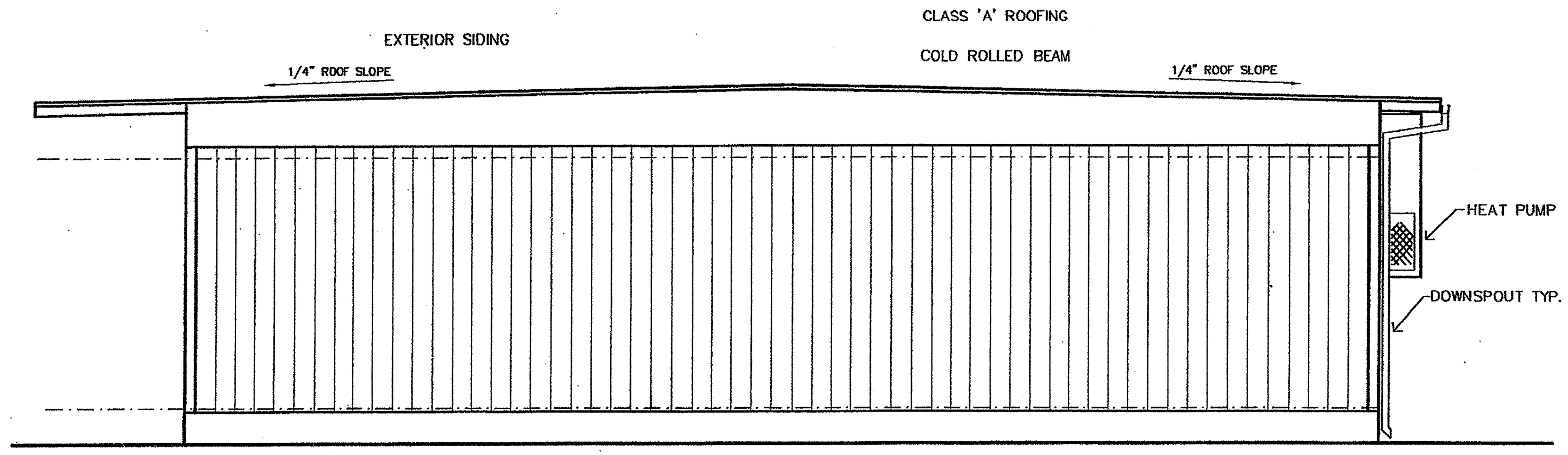
ELEVATION A



ELEVATION B



ELEVATION C



ELEVATION D

LEGEND

INDICATES DOOR TYPE, SEE G-2
INDICATES HARDWARE TYPE, SEE G-2

(A) INDICATES WINDOW TYPE– SEE SHEET G-2

DETAIL #
SHEET #

SIGNAGE LEGEND:

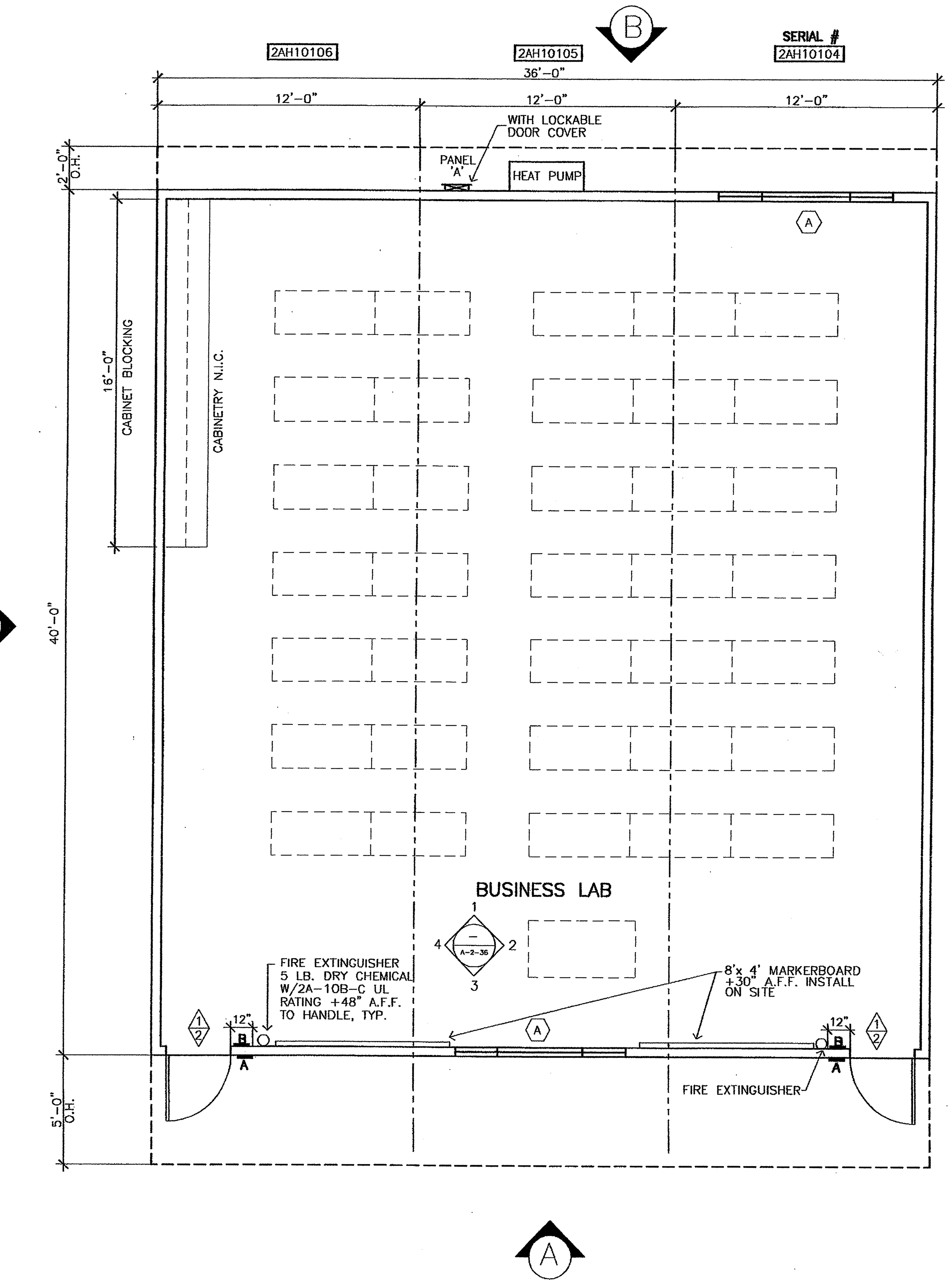
A: ROOM SIGNAGE PER DETAIL #3, SHEET G-4
B: EXIT SIGNAGE PER DETAIL #3, SHEET G-4

SEE NOTE 4 BELOW FOR SIGNAGE REQUIREMENTS

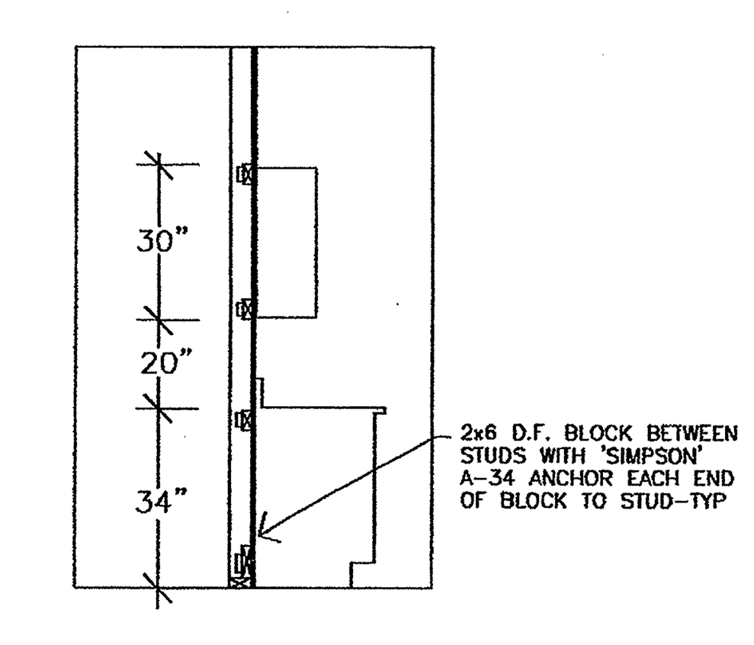
NOTE:
FLOOR PLAN SHOWN IS 'B' BUILDING
'A' BUILDING IS OPPOSITE HANDED

NOTE:
PROVIDE FIRE BLOCKING PER C.B.C. 708

NOTE:
BUILDING HOUSING GROUP 'E' OCCUPANCIES SHALL HAVE ROOF COVERINGS AS SPECIFIED IN TABLE 15A C.B.C. – CLASS 'A'



FLOOR PLAN
SCALE: 1/4"-1'-0"



CABINET BLOCKING

BLOCKING SHALL BE 2x4 D.F. #2 BETWEEN STUDS WITH 'SIMPSON' A-34 ANCHOR EACH END OF BLOCK TO STUD. ATTACH CABINET TO BLOCKING WITH #10 x 3" SCREWS @ 12" O.C. ALTERNATE BLOCKING SHALL BE 20 GA. x 7 1/2" WIDE STEEL ATTACHED TO STUDS W/ (2) #6 SMS @ EACH STUD

NOTES:

1. MANUFACTURER SHALL MECHANICALLY ATTACH METAL TAG TO EXTERIOR OF BUILDING SHOWING DSA APPLICATION NUMBER, MANUFACTURERS NAME, UNIT SERIAL NUMBER, DESIGN LIVE LOADS FOR FLOOR AND ROOF, AND THE DESIGN WIND LOAD.
2. WALL AND CEILING FINISHES SHALL BE MIN. CLASS I MATERIAL
3. FIBERGLAS INSULATION SHALL HAVE THE FOLLOWING:
   FLAME SPREAD 0-25
   SMOKE DEVELOPED, FUEL CONTRIBUTED 0-450
4. SIGNAGE REQUIRED PER APPLICABLE CODES LISTED ON SHEET CS PROVIDED AND INSTALLED BY OTHERS ONSITE. SEE #3/G-4
5. ANY ROOM HAVING AN OCCUPANT LOAD OF 50 OR MORE WHERE FIXED SEATS ARE NOT INSTALLED, AND WHICH IS USED FOR CLASSROOM, ASSEMBLY, DINING OR SIMILAR PURPOSE SHALL HAVE THE CAPACITY OF THE ROOM POSTED IN A CONSPICUOUS PLACE NEAR THE MAIN EXIT OF THE ROOM. POSTING SHALL BE BY MEANS OF A DURABLE SIGN HAVING CONTRASTING COLOR FROM THE BACKGROUND TO WHICH IT IS ATTACHED.
6. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 POUNDS FOR EXTERIOR DOORS AND 5 POUNDS FOR INTERIOR DOORS, SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR ATUOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. WHEN FIRE DOORS ARE REQUIRED, THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED NOT TO EXCEED 15 POUNDS.
7. PANIC HARDWARE IS REQUIRED TO BE INSTALLED WHEN THE CONFIGURATION OF ANY ROOM PROVIDES AN OCCUPANT LOAD 50 OR GREATER, CBC 1007.3.10

MSI
MODULAR STRUCTURES INTERNATIONAL, INC.
920 CITRUS AVE. RIVERSIDE, CALIFORNIA. 92507
PHONE: (909) 788-3035 FAX: (909) 788-1523

LICENSED ARCHITECT
PAUL DENNIS WESTBERG
EXP. 9-2003
STATE OF CALIFORNIA
ARCHITECT STAMP

DATE SIGNED
JUN 04 2003

STRUCTURAL ENGINEER STAMP

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL 01 105425
AC ___ FLS ___ SS ___
DATE 6/19/03
STATE AGENCY STAMP

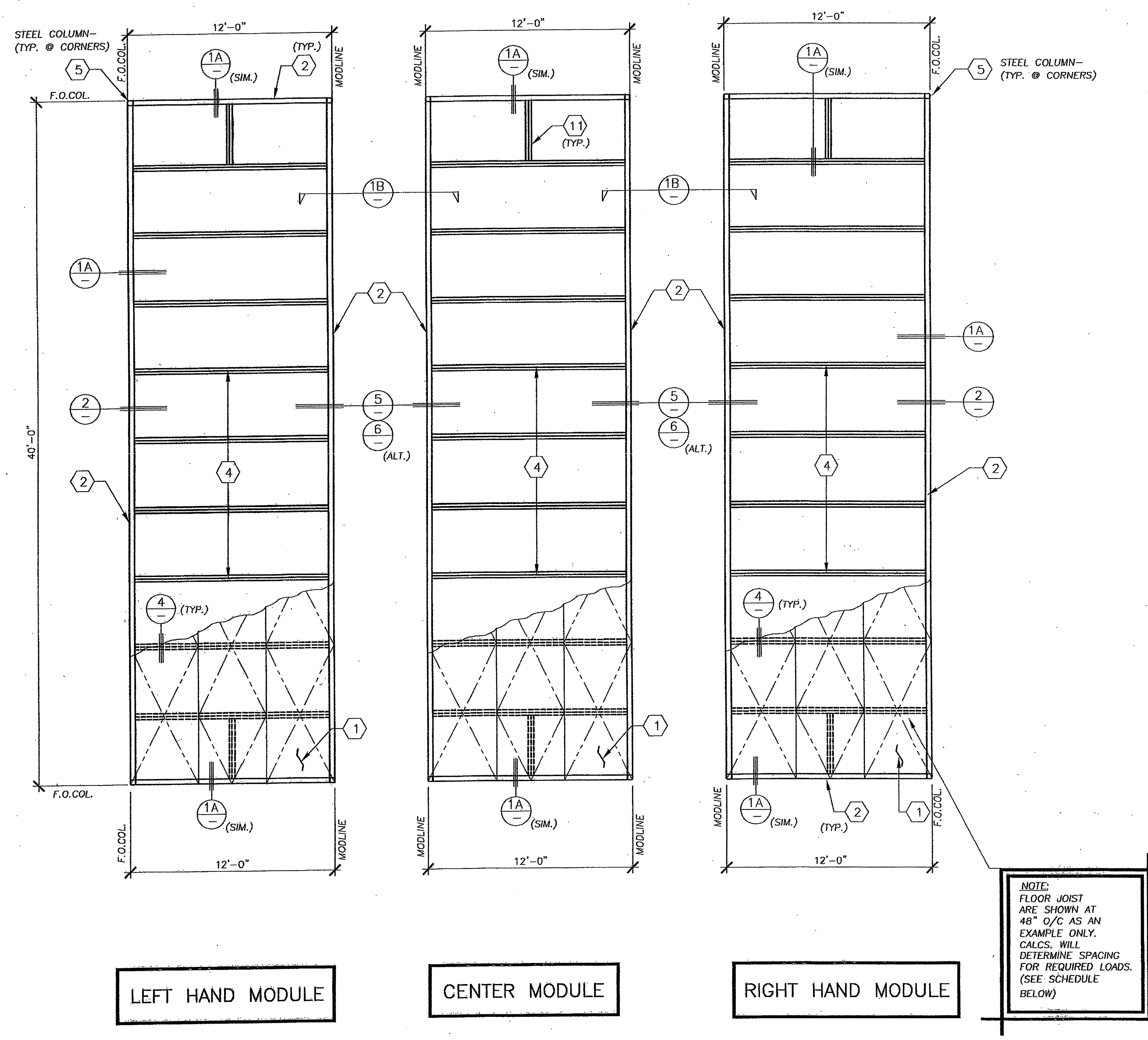
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
4-104778
AC___ FLS___ SS___
DATE:___
STATE AGENCY STAMP

PROJECT: 36'x40' BUSINESS LAB

TITLE: 36'x40' FLOOR PLAN, EXTERIOR ELEVATIONS DUAL SLOPE ROOF

JOB #	03-1003
DATE	5-6-03
DRAWN BY	db
SCALE	1/4"=1'-0"
APPROVED	
REVISIONS	

SHEET NO.
A-1.2-36

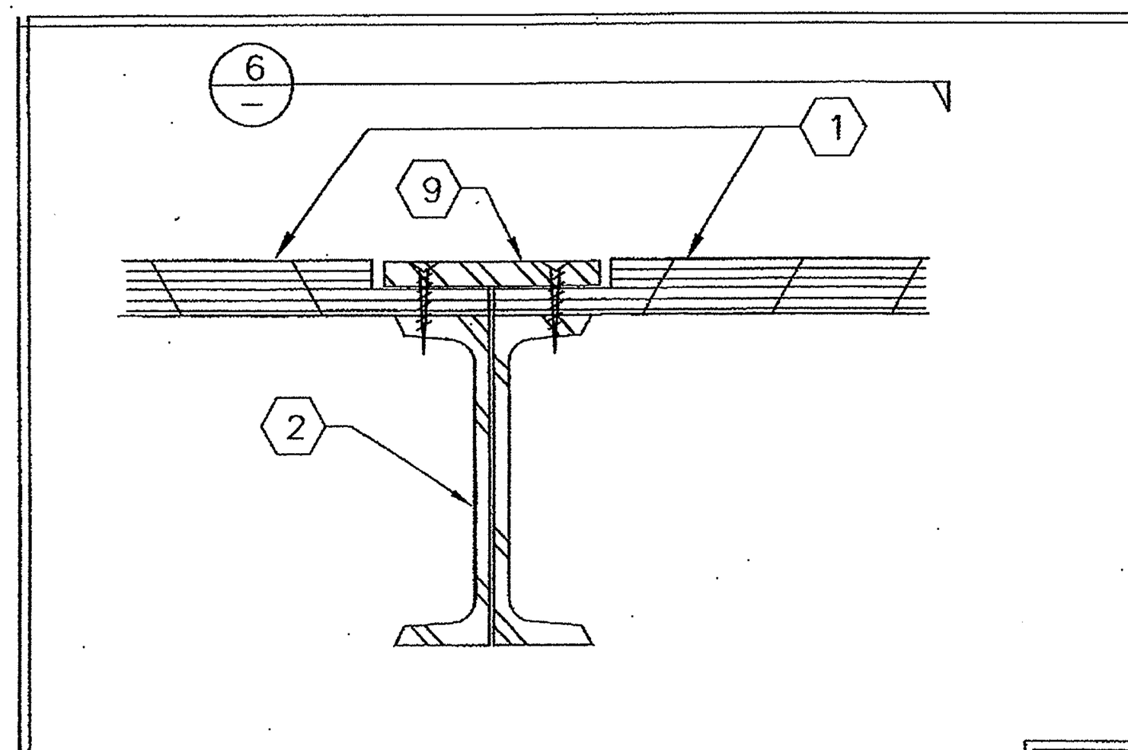


LEFT HAND MODULE

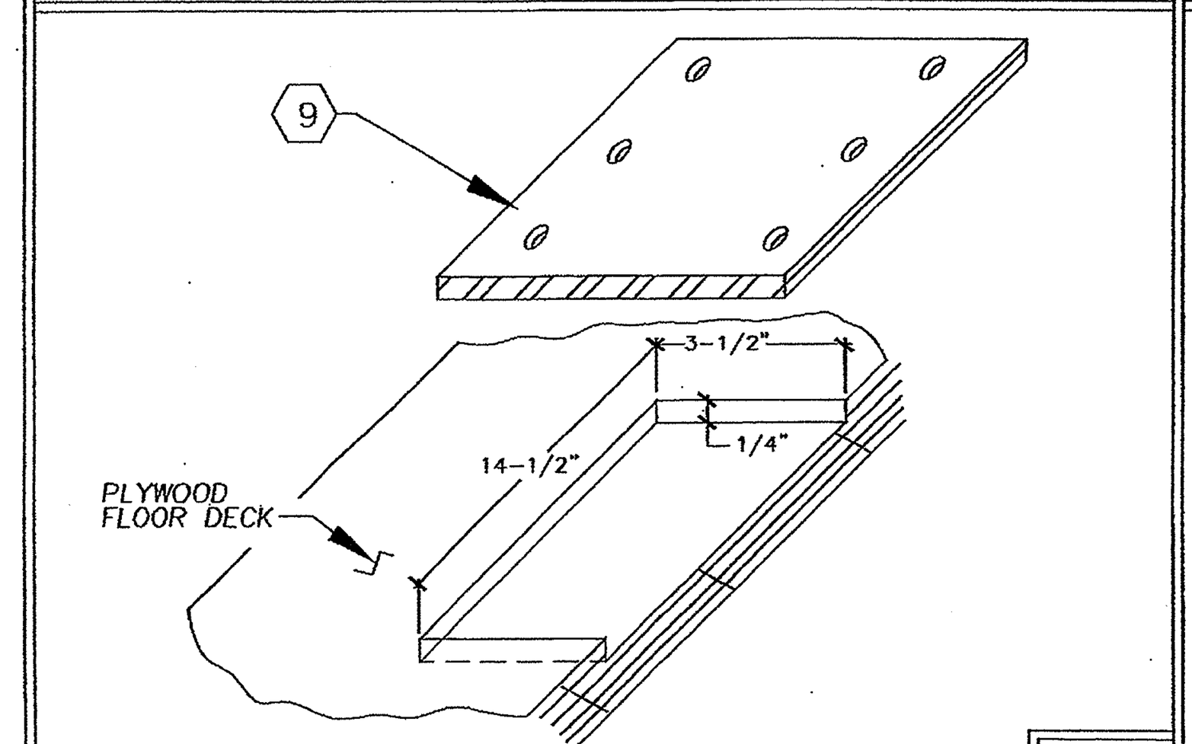
CENTER MODULE

RIGHT HAND MODULE

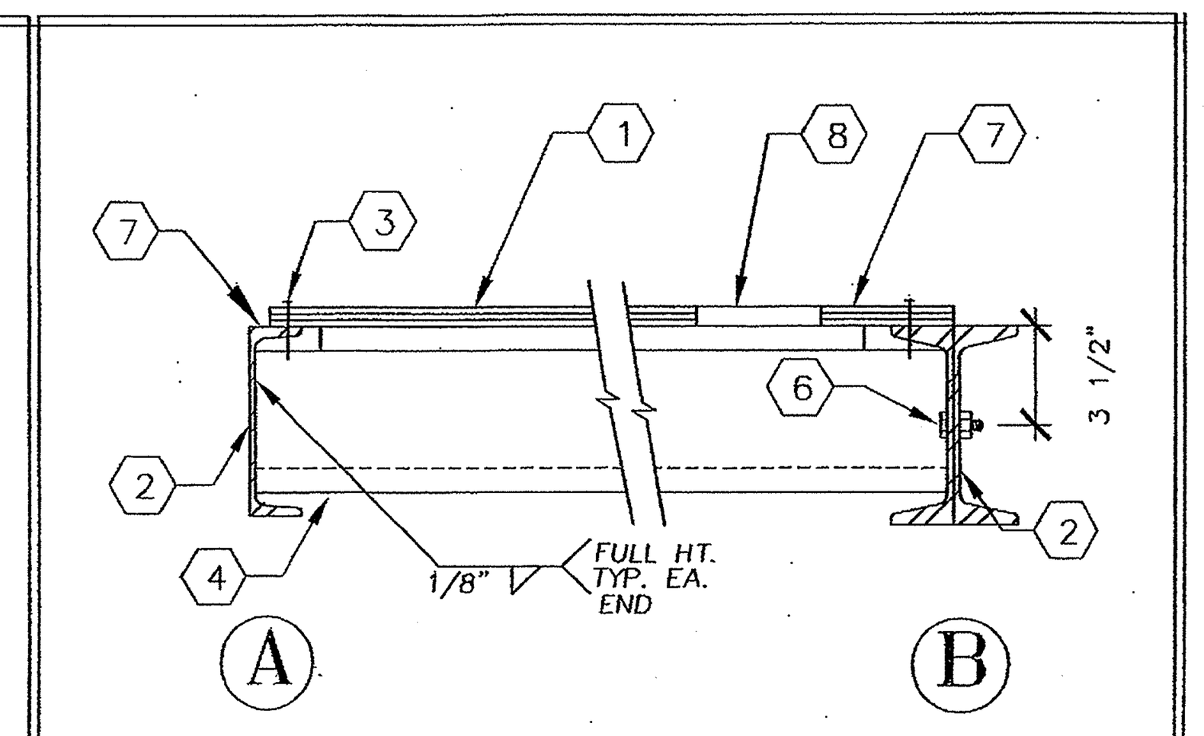
FLOOR FRAMING PLAN
SCALE 1/4" = 1'-0"



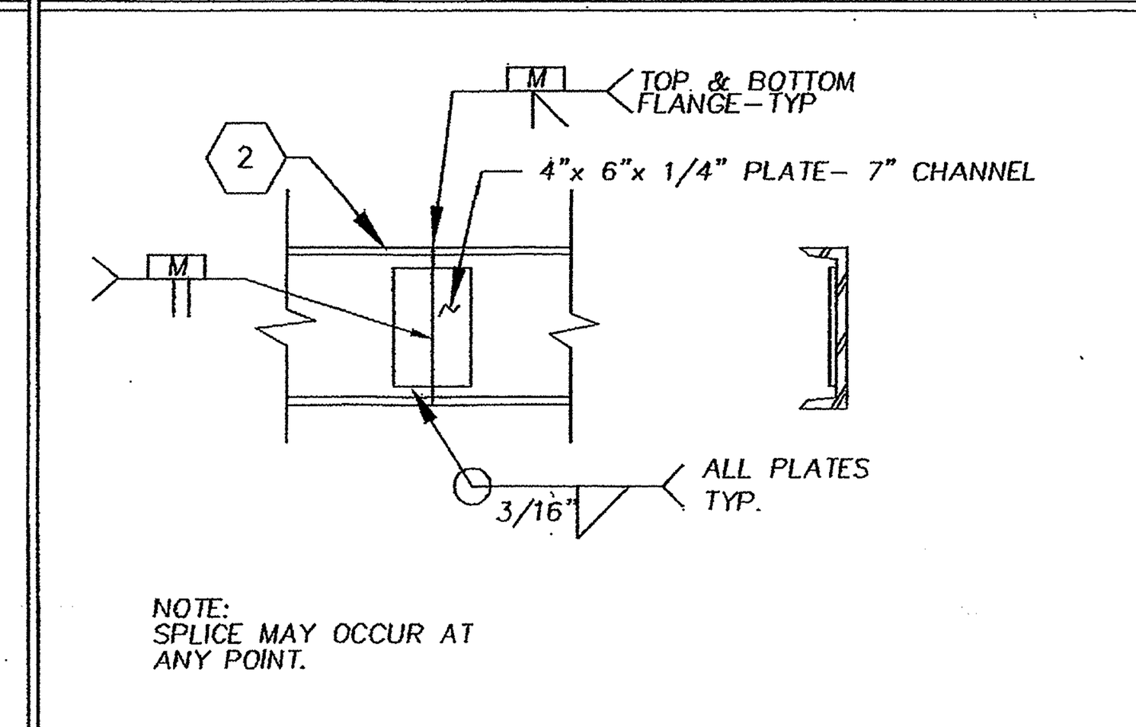
MOD CONN. @ FLOOR
SCALE: 3" = 1'-0" — 5



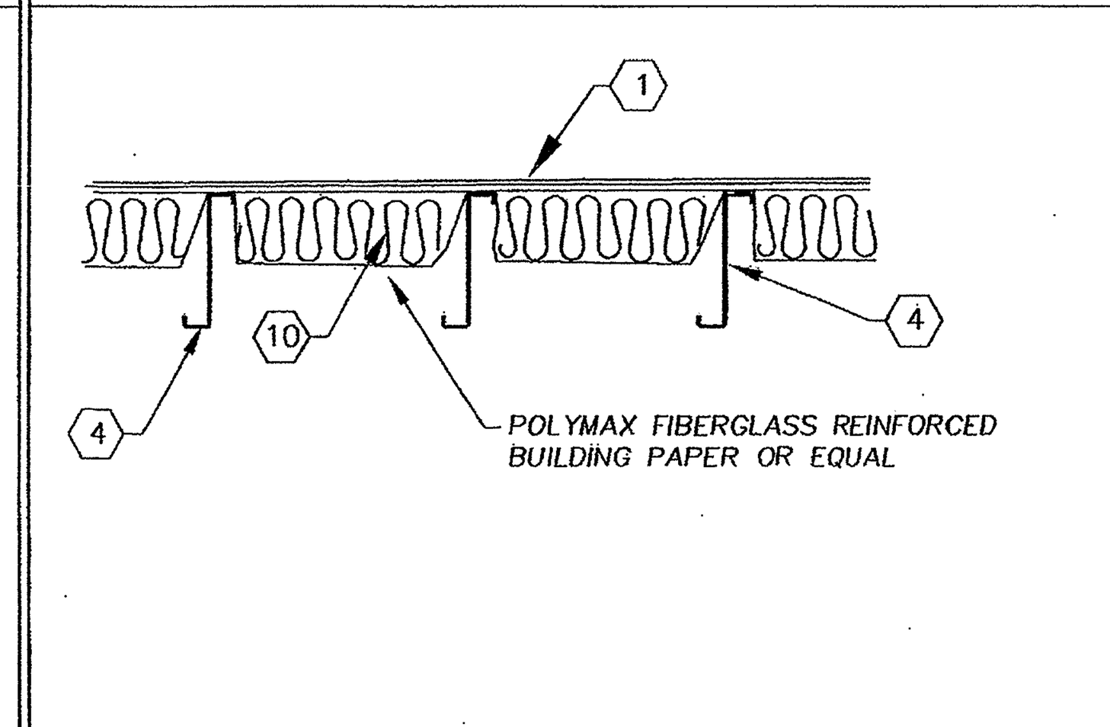
MOD LINE CONN.PLATE ALT.
SCALE: N.T.S. — 6



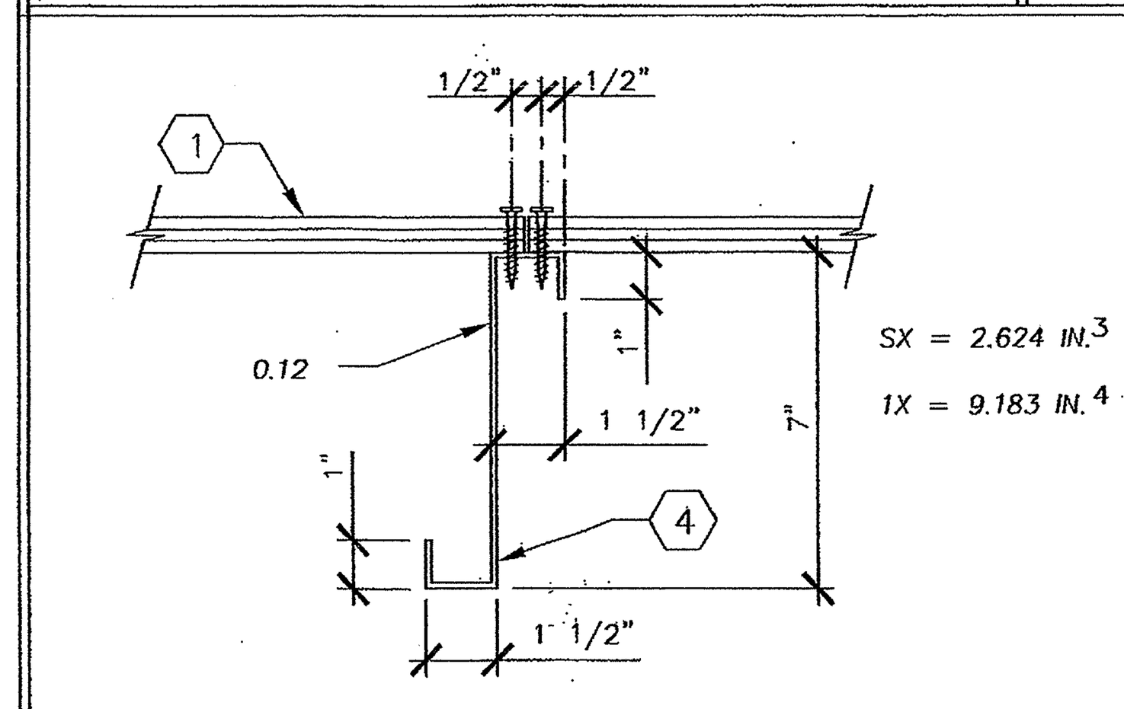
PERIMETER FLOOR
SCALE: 1 1/2" = 1'-0" — 1



CHANNEL SPLICE
SCALE: 1 1/2" = 1'-0" — 2



INSULATION @ FLOOR
SCALE: N.T.S. — 3



FLOOR JOIST
SCALE: 3" = 1'-0" — 4

KEY NOTES

1. PLYWOOD FLOOR SHEATHING – 1 1/8" A.P.A. RATED OR EQUAL. P.S. 1-95 T & G EDGES, 48" SPAN RATING; ATTACH TO STEEL FRAMING WITH .170/.192 PIN OR #10-24x1 3/4" SELF TAP SCREW @ 6" O.C. BOUNDARY & EDGES AND 10" O.C. FIELD.
   NOTE:
   PROVIDE FIELD NAILING @ 6" O.C. WHERE FLOOR JOISTS ARE AT 48" O.C.
2. C7" x 9.8 LB. PERIMETER FRAME
3. 0.145"ø SHOT PIN @ 6" O.C. PLYWOOD DECK TO PERIMETER CHANNEL
4. FLOOR JOIST 'Z' MEMBER. SEE SCHEDULE BELOW.
5. STEEL CORNER COLUMN.
6. 5/8" MACHINE BOLT AT 10'-0" O.C. @ MODULE CONNECTION.
7. AT MODULE JOINT TAKE PLYWOOD TO EDGE OF CHANNEL. AT PERIMETER, HOLD PLYWOOD BACK AS INDICATED.
8. 5" DIA. HOLE AT BOLT LOCATION. (OPTIONAL)
9. 6" x 14" x 12 Ga. PLATE WITH (6) #10-34 x 1 3/4" FLAT HEAD SELF TAP SCREWS INTO STEEL CHANNEL FLOOR FRAME @ 10' O.C.
10. R-11 INSULATION ON 'SEAL TITE' TYPE HW POLYMAX UNDERBELLY OR EQUAL WITH BIDIRECTIONAL POLYESTER FIBERS.
11. 7"x1 1/2"x11 GA. 'Z' MEMBER @ MIDSPAN.

FLOOR JOIST SCHEDULE

LOAD	JOIST	SPACING
50 PSF	Z 7x1 1/2x11 GA.	48" O.C.
50+20 PSF	Z 7x1 1/2x11 GA.	32" O.C.
100 PSF	Z 7x1 1/2x11 GA.	24" O.C.
125 PSF	Z 7x1 1/2x11 GA.	16" O.C.

DATE SIGNED JUN 04 2003

LICENSE EXPIRES 6-30-2004

ARCHITECT STAMP

DATE SIGNED MAY 21 2003

LICENSE EXPIRES 6-30-2004

STRUCTURAL ENGINEER STAMP

IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT
APPL 01 105425
AC ___ FLS ___ SS ___
DATE 6/4/03

STATE AGENCY STAMP

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4-104778
AC ___ FLS ___ SS ___
DATE: 5-30-03

STATE AGENCY STAMP

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920 CITRUS AVE. RIVERSIDE, CALIFORNIA. 92507
PHONE: (909) 788-3035 FAX: (909) 788-1523

PROJECT:
MODULAR CLASSROOM BUILDING

TITLE & BLDG. DATA:
FLOOR FRAMING PLAN AND DETAILS FOR PLYWOOD FLOOR
WIND LOAD: 80 & 90 MPH
ROOF LOAD: 20 & 30 PSF
FLOOR LOAD: 50, 50+20, 100 & 125 PSF

JOB #

DATE 12/1/02

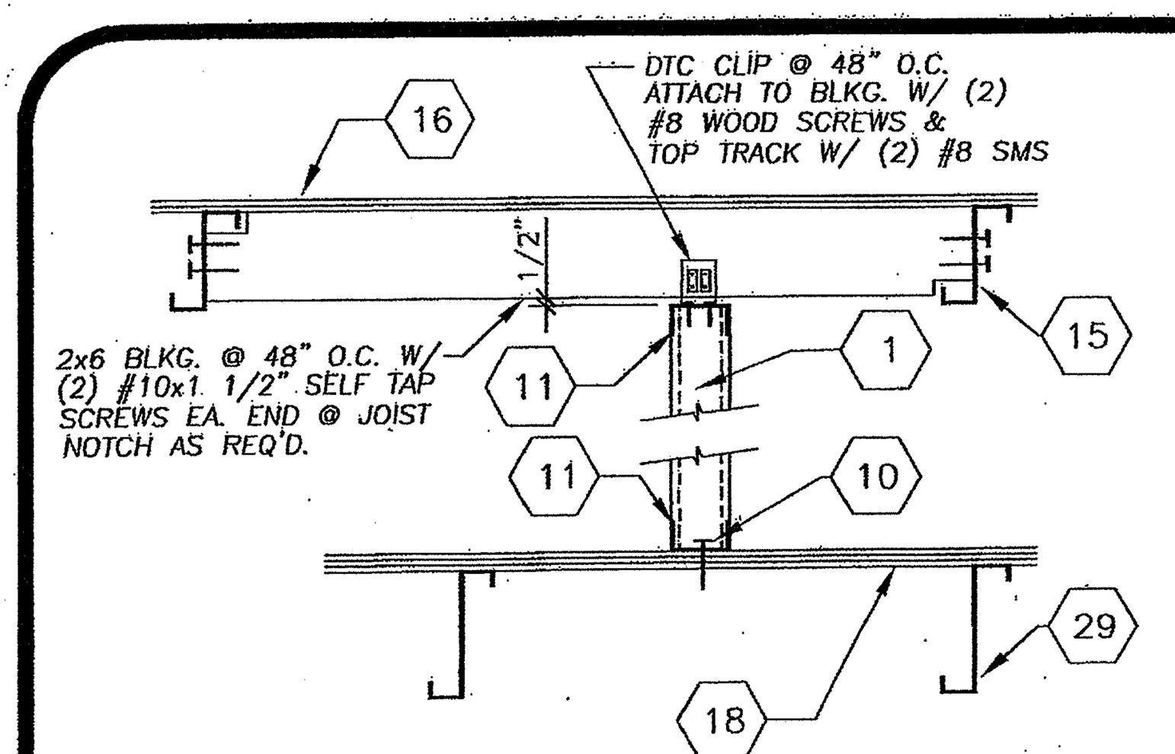
DRAWN BY JAG

SCALE AS NOTED

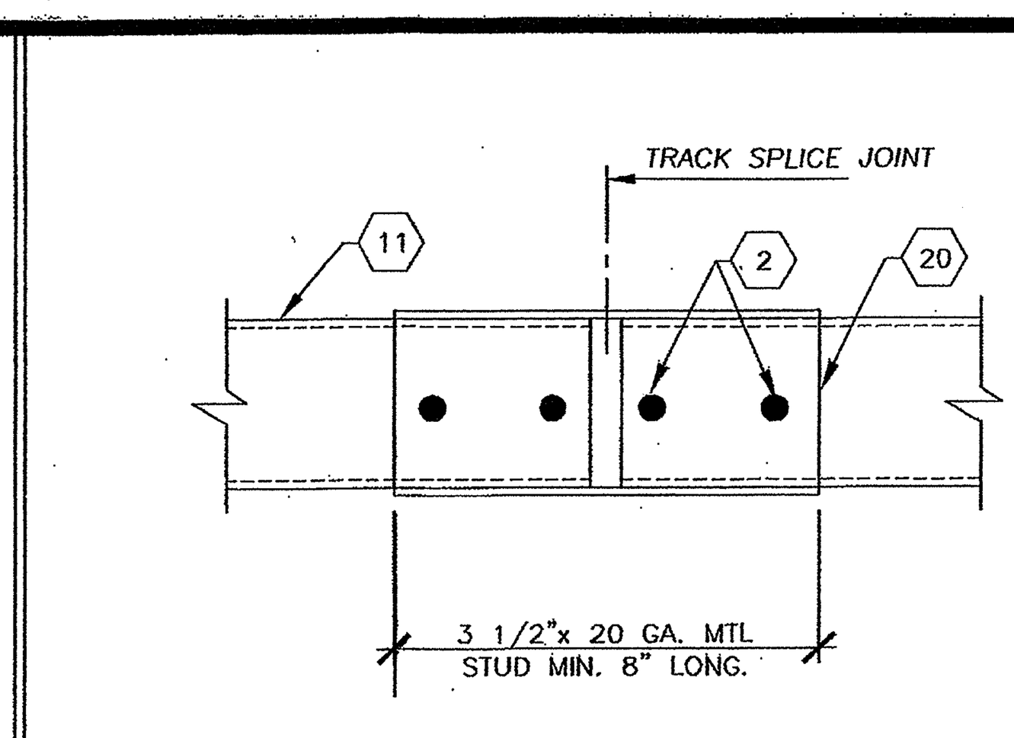
APPROVED

REVISIONS

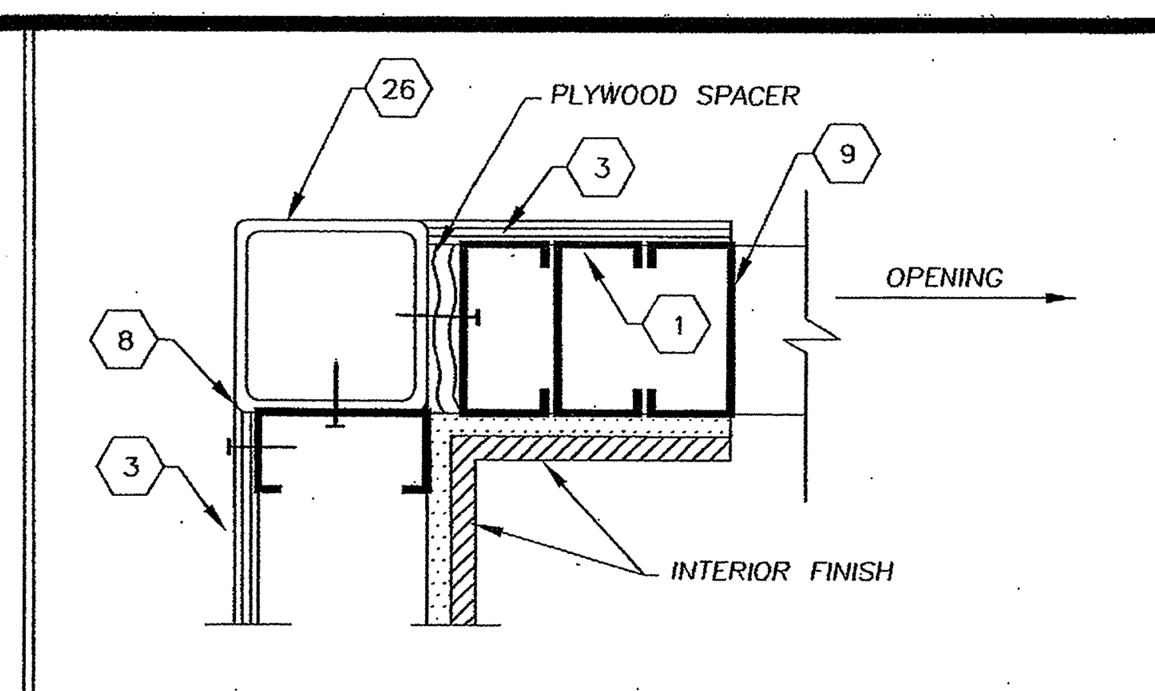
SHEET NO.
S-10



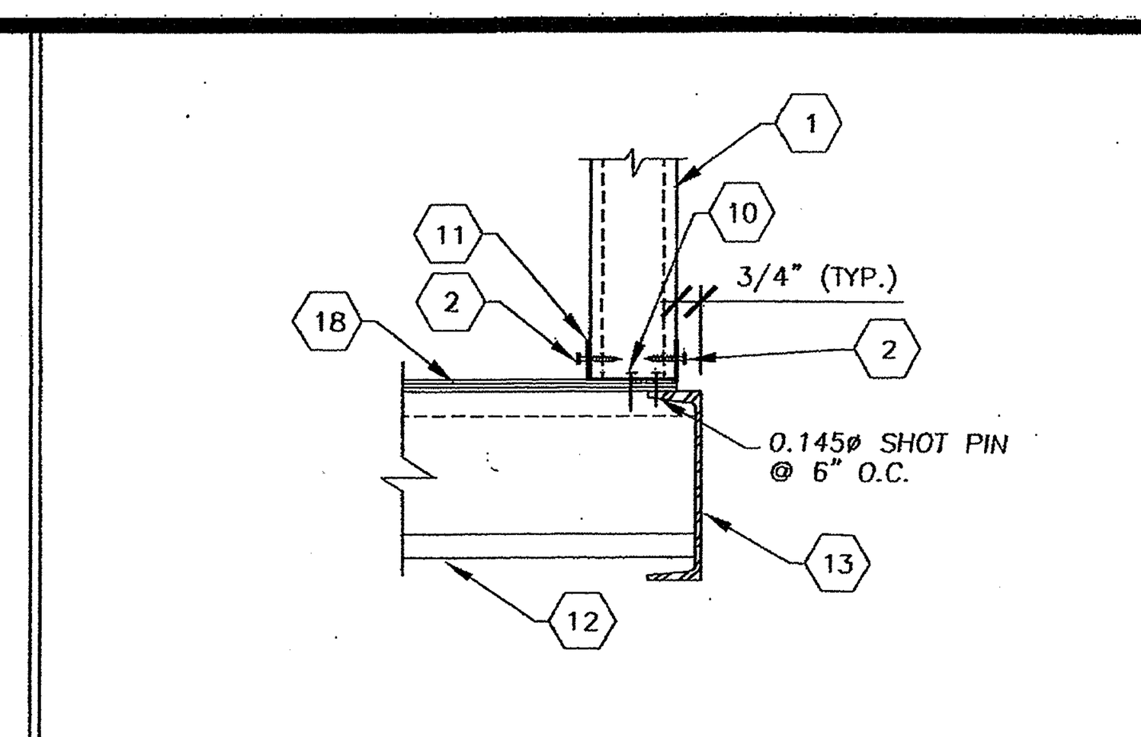
INT. WALL ATTACHMENT PARELLEL TO ROOF PURLINS SCALE: 1" = 1'-0" 16



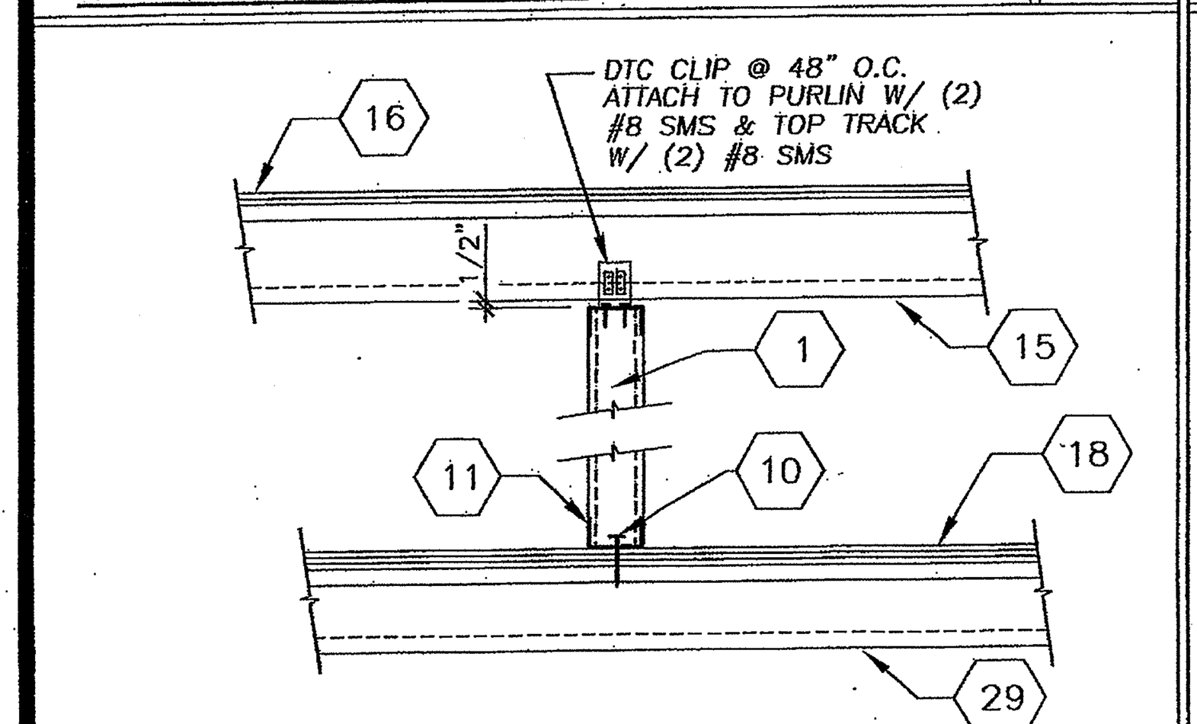
TRACK SPLICE DETAIL SCALE: 3" = 1'-0" 11



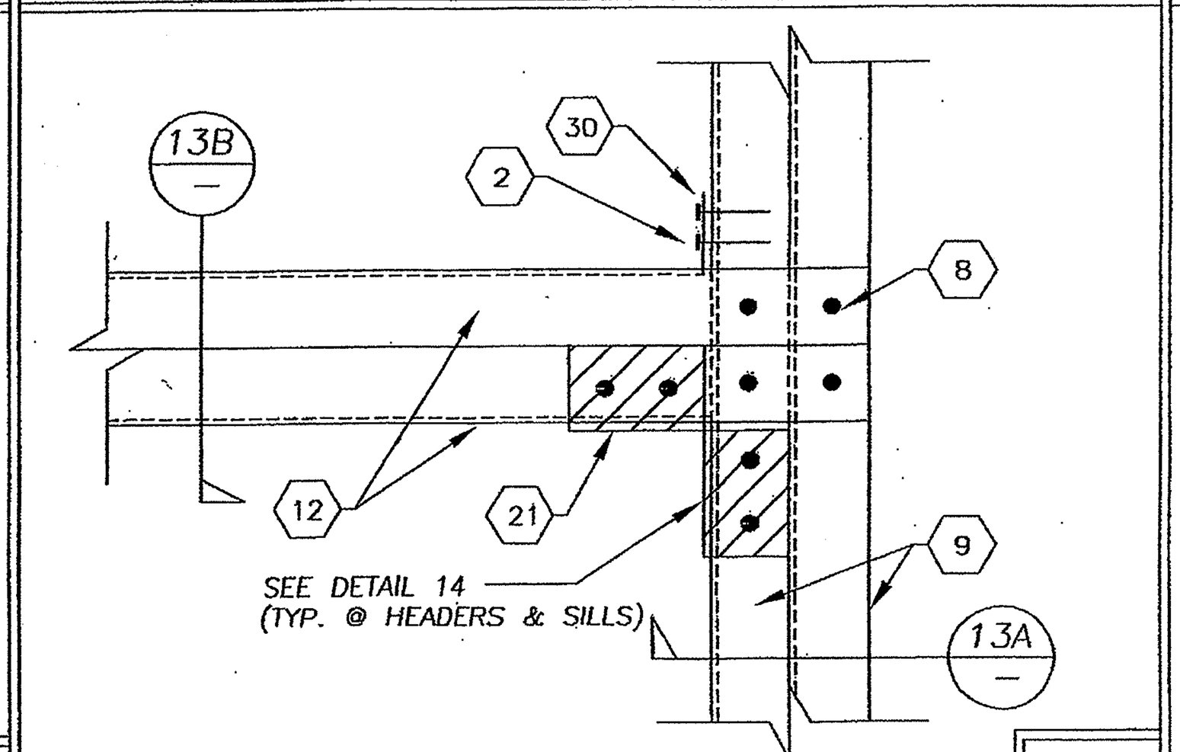
JAMB STUDS @ CORNER SCALE: 3" = 1'-0" 6



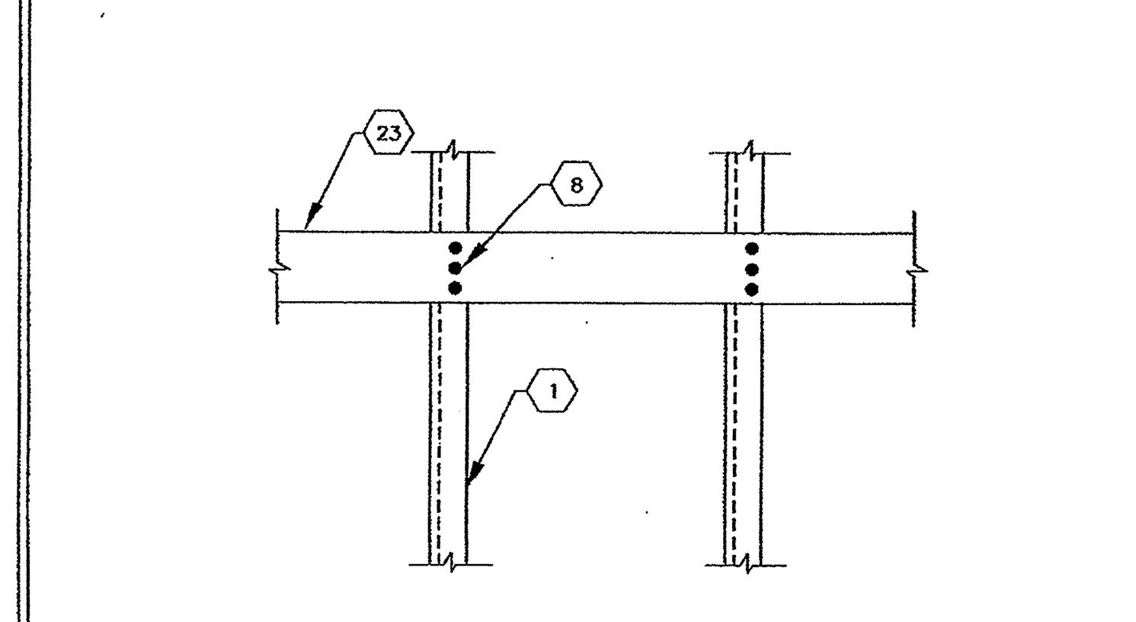
WALL @ FLOOR SCALE: 1 1/2" = 1'-0" 1



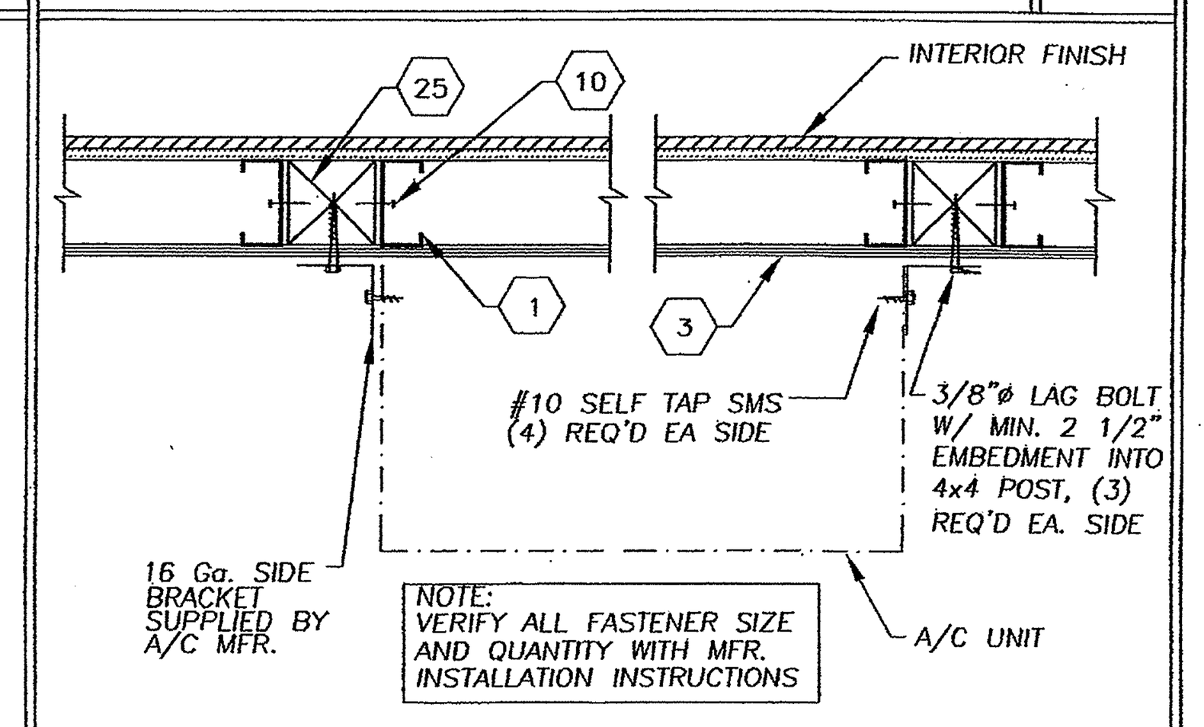
INT. WALL ATTACHMENT PERPENDICULAR TO ROOF PURLINS SCALE: 1" = 1'-0" 17



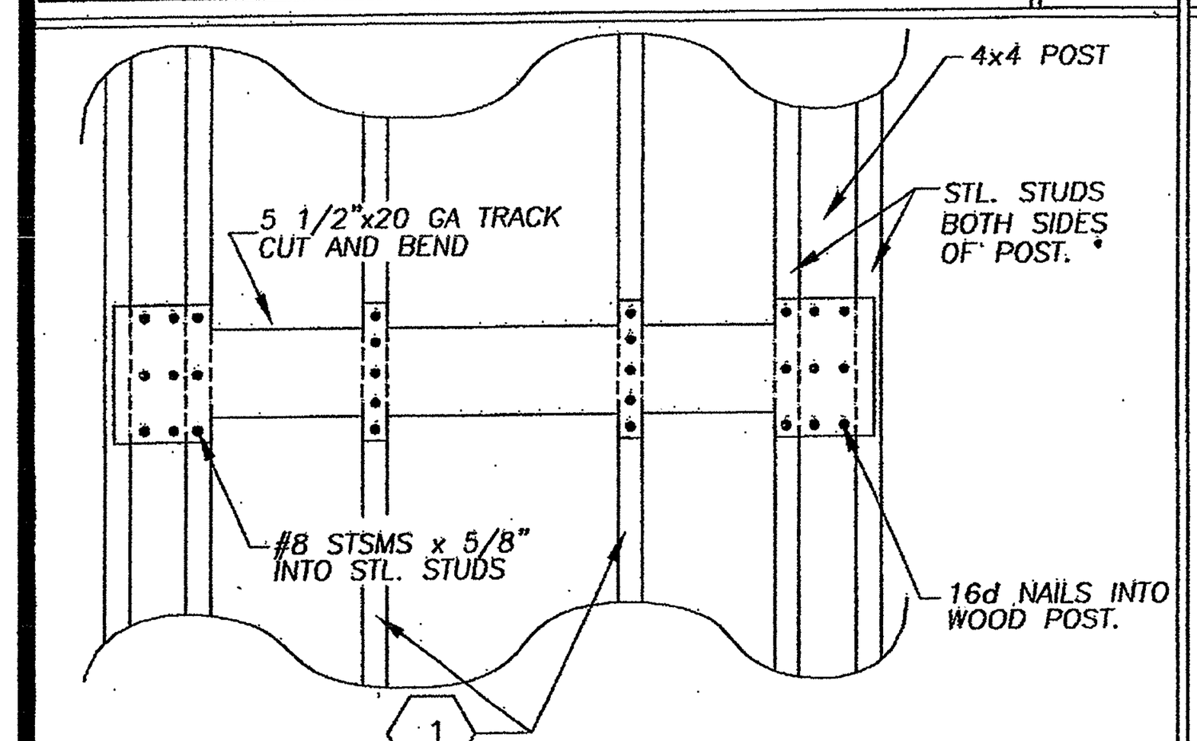
JAMB STUDS @ HEADER & SILL SCALE: 3" = 1'-0" 12



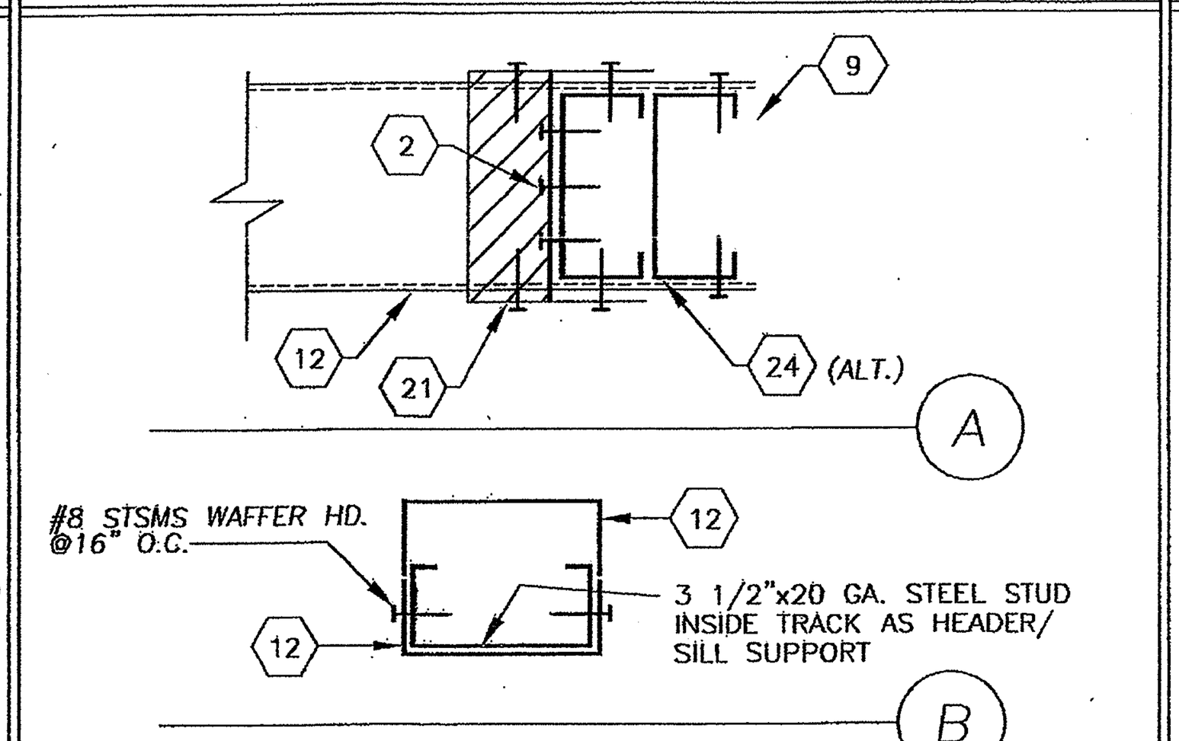
TYP. STRAP TO STUD SCALE: 1 1/2" = 1'-0" 7



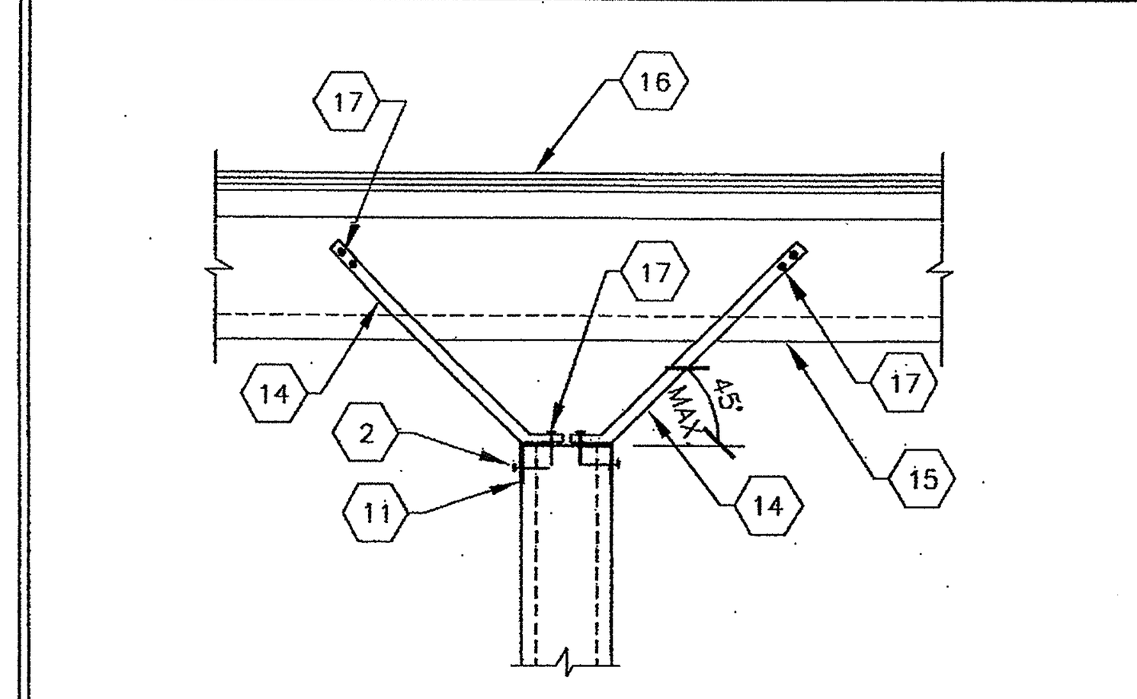
A/C @ ENDWALL SCALE: 1 1/2" = 1'-0" 2



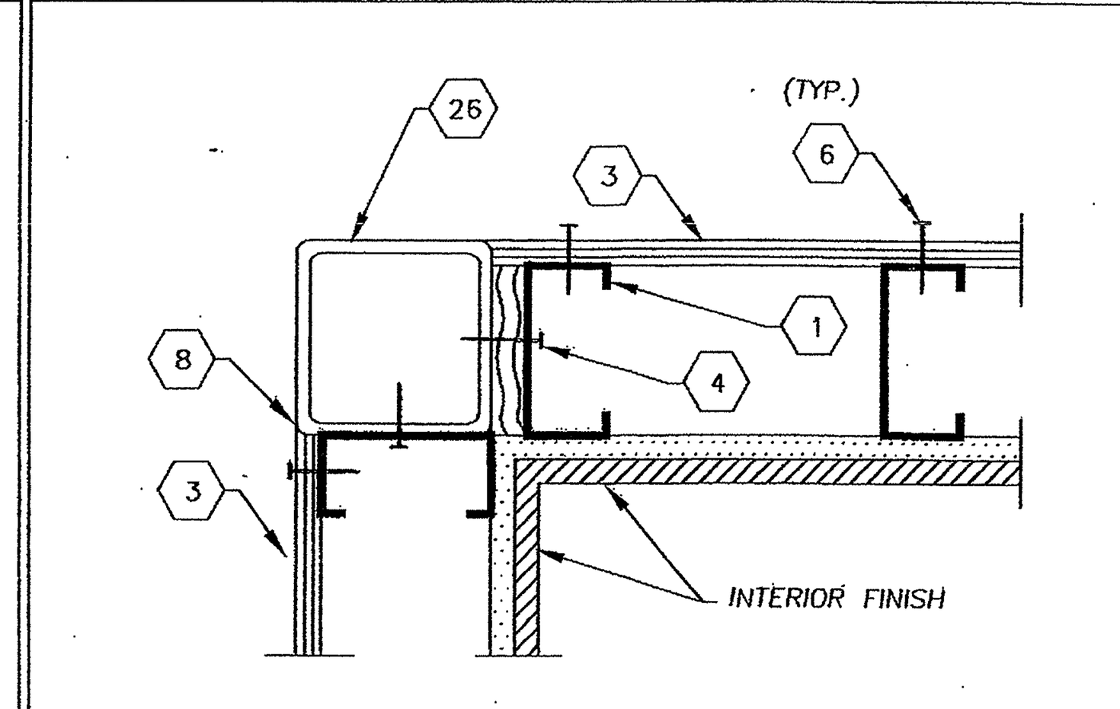
A/C BTM. BRACKET STL. STUDS SCALE: N.T.S. 18



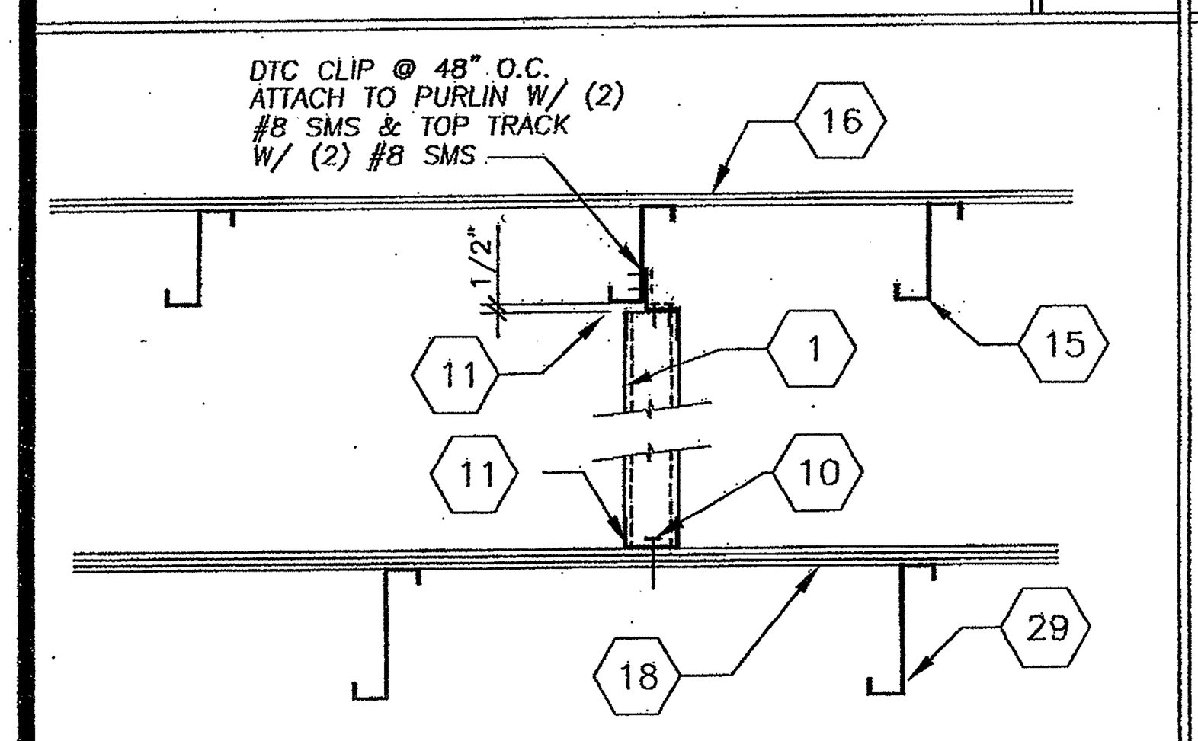
HEADER & SILL CONN. SCALE: 3" = 1'-0" 13



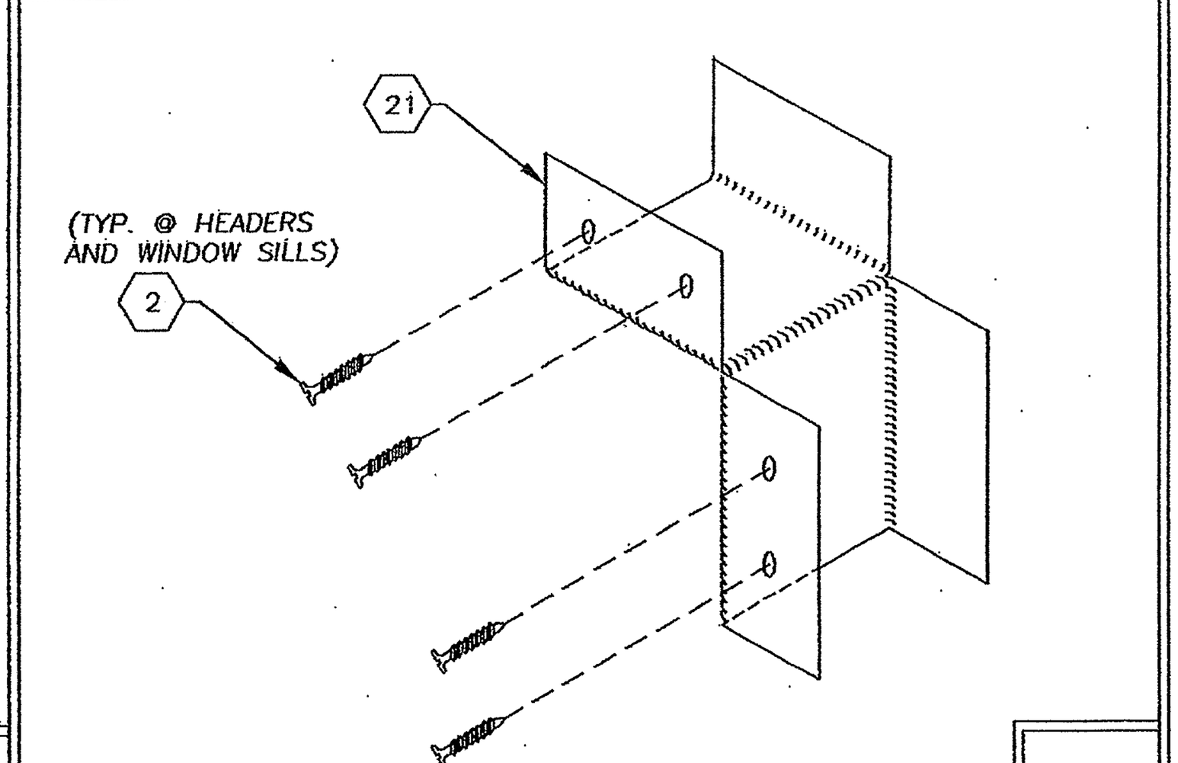
ALT. PARTITION CONN. PERP. SCALE: 1 1/2" = 1'-0" 8



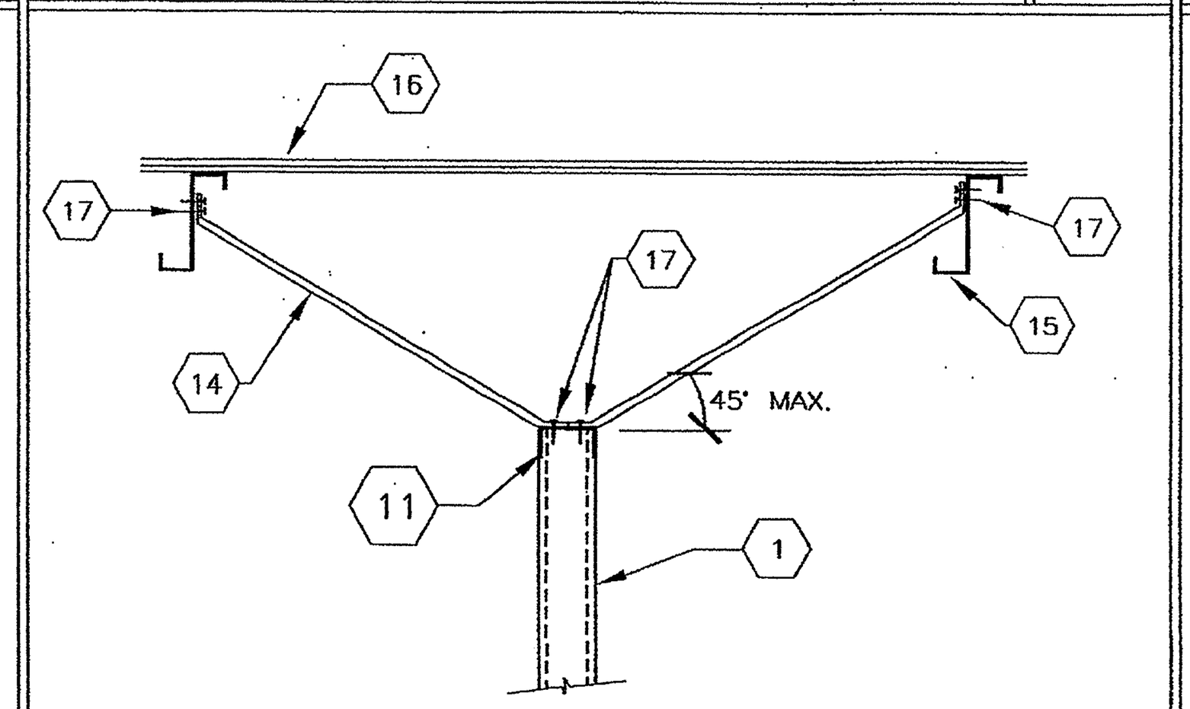
COLUMN AT CORNER SCALE: 3" = 1'-0" 3



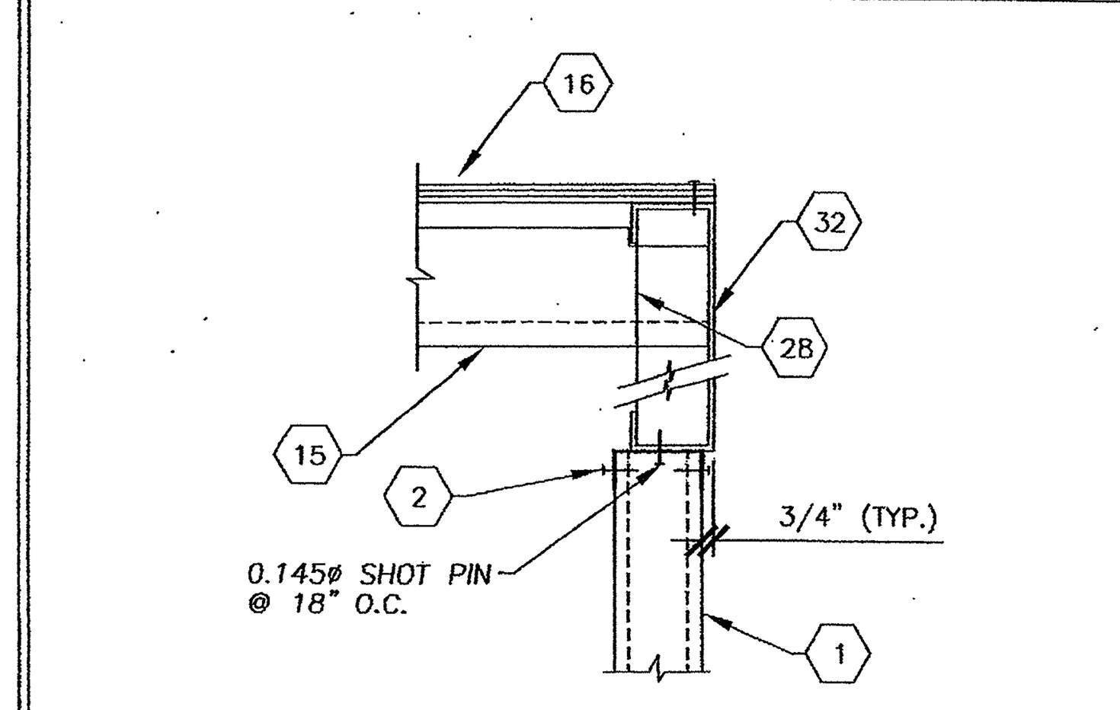
INT. WALL ATTACHMENT TO ROOF PURLINS SCALE: 1" = 1'-0" 19



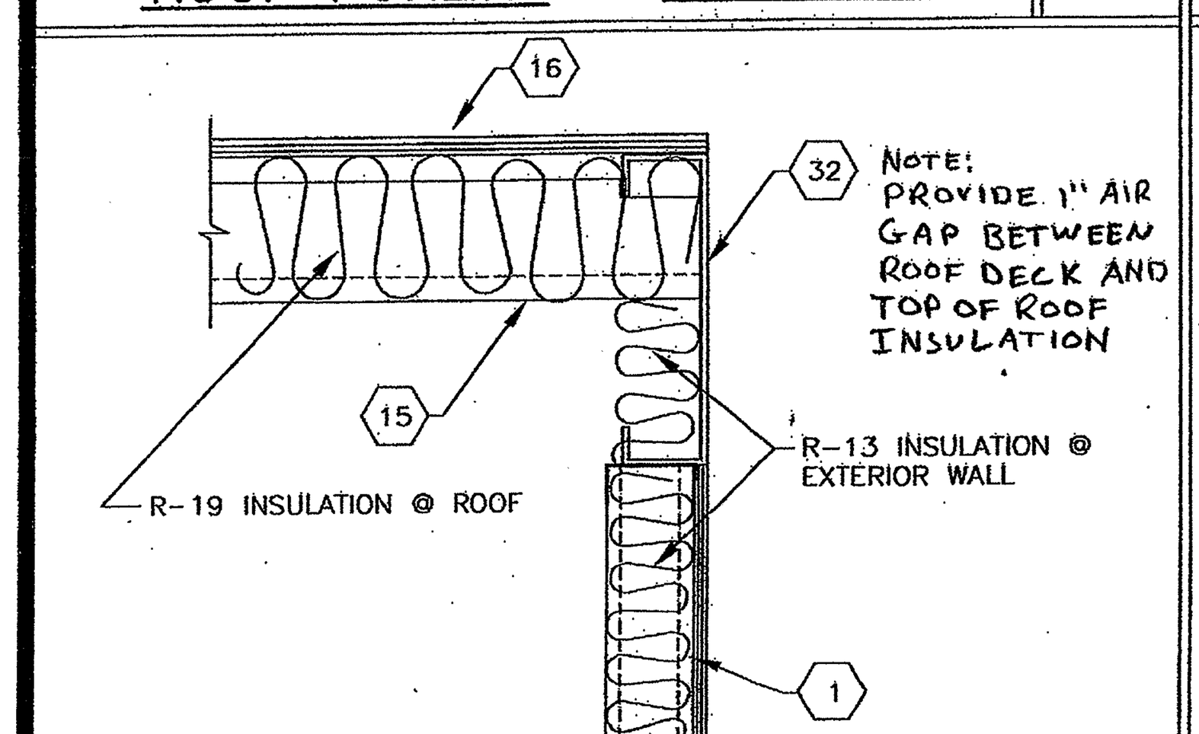
CONNECTOR FROM JAMB TO HDR. 14



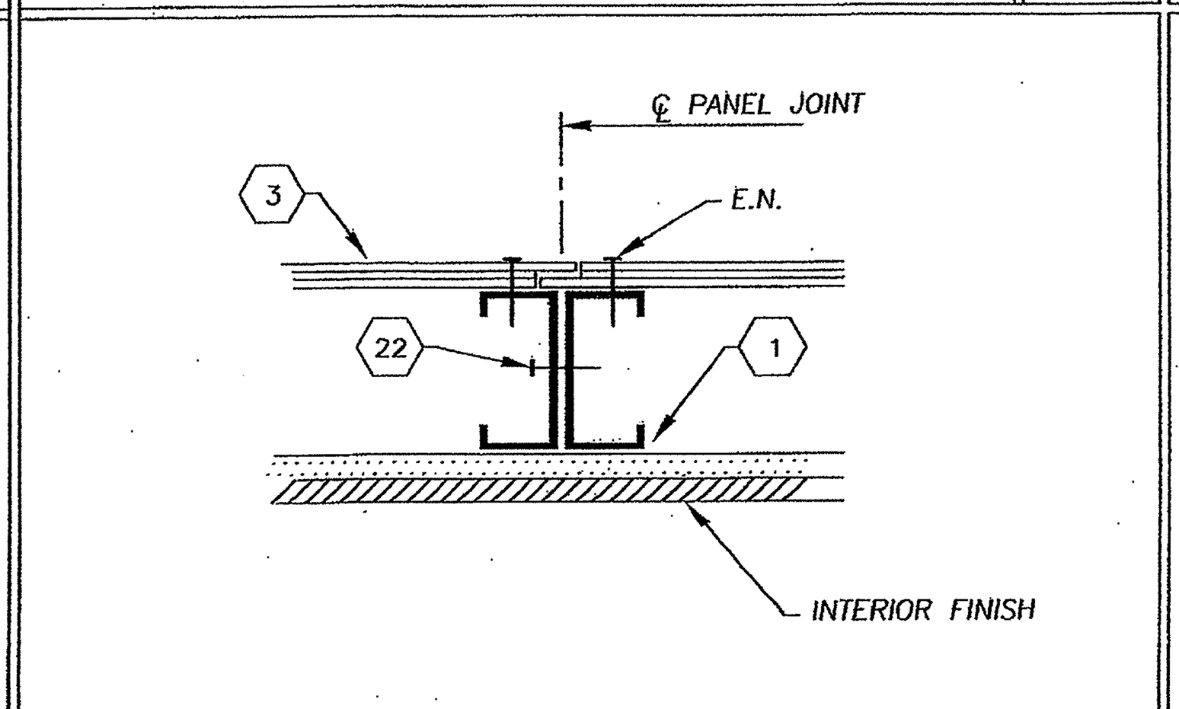
ALT. PARTITION CONN. PARELLEL SCALE: 1" = 1'-0" 9



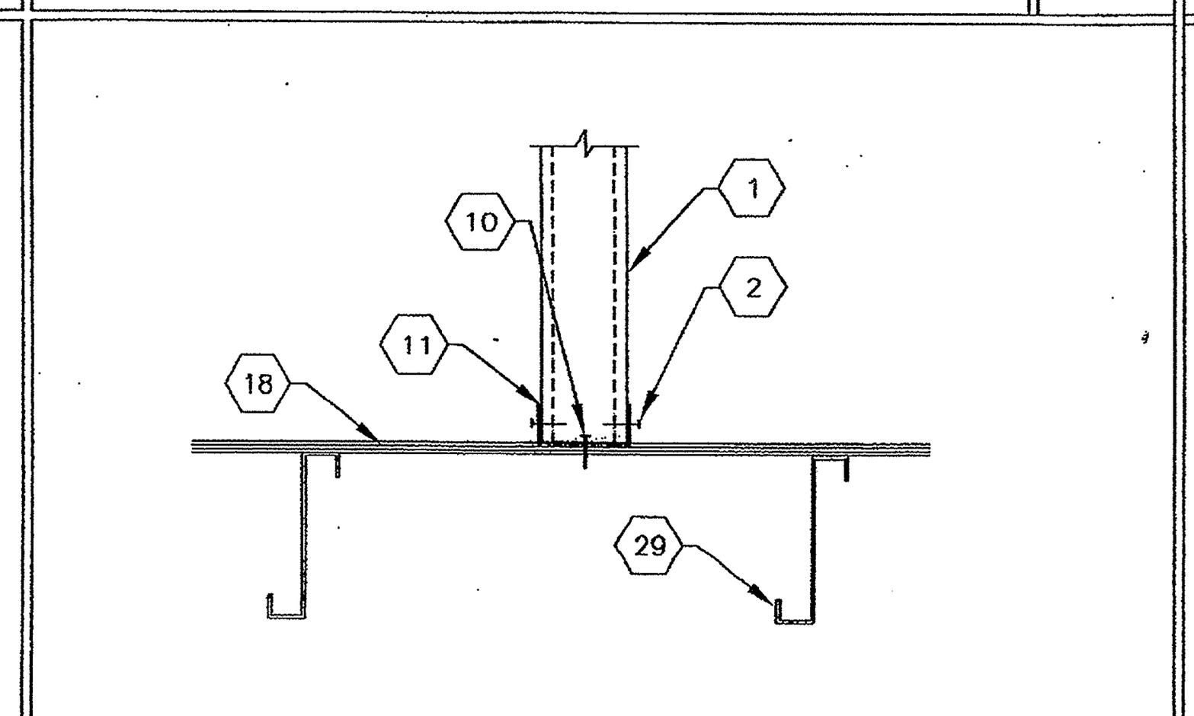
WALL @ ROOF BM. SCALE: 1 1/2" = 1'-0" 4



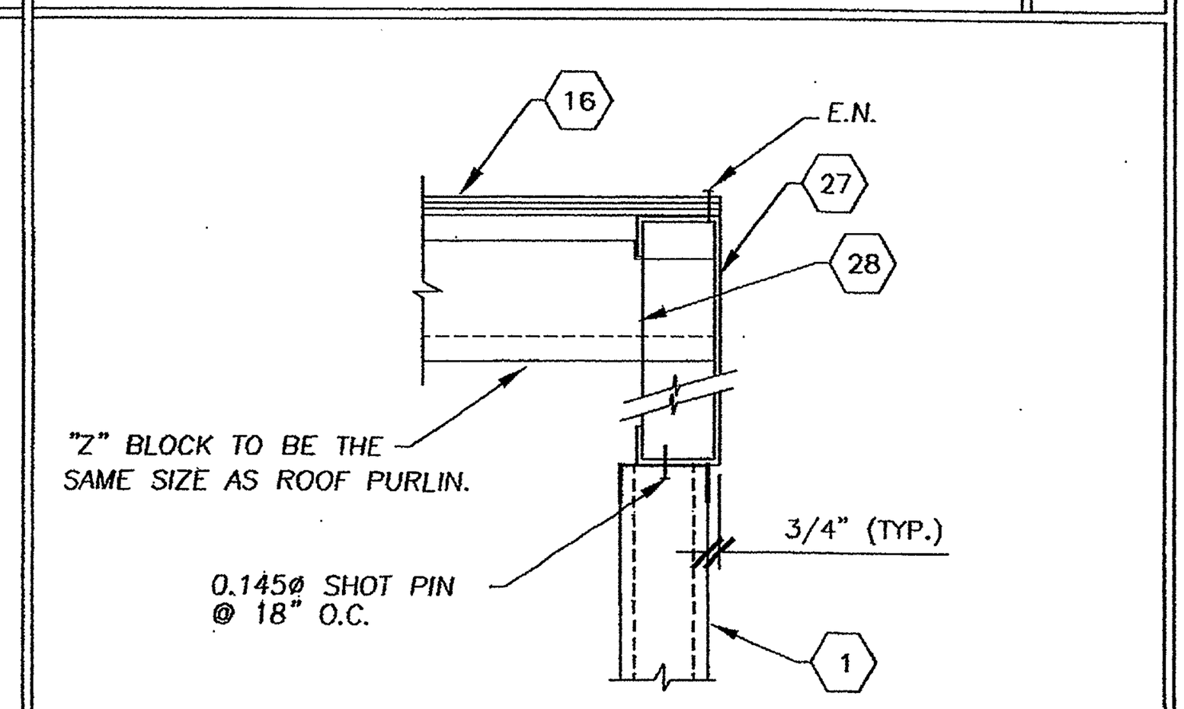
INSULATION @ WALL/ROOF SCALE: 1 1/2" = 1'-0" 20



WALL PANEL JOINT SCALE: 1 1/2" = 1'-0" 15



PARTITION CONN. TO SILL SCALE: 1 1/2" = 1'-0" 10



WALL @ ROOF HDR. SCALE: 1 1/2" = 1'-0" 5

NOTES:

A. EXTERIOR PLYWOOD ATTACHED TO STUDS W/ CORROSION RESISTANT SCREWS.

B. PROVIDE MOISTURE BARRIER BEHIND SIDING. USE ASPHALT SATURATED KRAFT, TYPE-1, GRADE 'D', STYLE-2 OR EQUAL ICBO NO. 4369

KEYNOTES

1. 3 1/2" x 20 GA. METAL STUD AT 16" O.C. MAX.
2. #8 STSMS WAFFER HD. @ EA. STUD
3. EXTERIOR FINISH (SEE FINISH SCHEDULE).
4. AEROSMITH AKN 0.145ø SHOT PIN, OR #10 SMS @ 24" MAX.
5. GALV METAL FLASHING
6. #8 STSMS FN AT 12" O.C. MAX.
7. HEADER (SEE OPENING SCHEDULE) COPE & BEND WEB FOR ATTACHMENT TO JAMB STUDS.
8. PAINTABLE ACRYLIC LATEX SEALANT (U.N.O.)
9. JAMB STUD (SEE OPENING SCHEDULE FOR TYPE AND QUANITY)
10. 16d BOX NAIL @ 8" O.C. OR #10-24x 1 3/4" W.S. SILL TRACK TO PLYWOOD FLOOR
11. 3 1/2" x 20 GA. TRACK.
12. 3 1/2" x 20 GA. TRACK AS HEADER OR SILL (SEE OPENING SCHEDULE) COPE AND BEND WEB FOR ATTACHMENT TO JAMB STUDS.
13. STEEL FLOOR CHANNEL.
14. 1/2"ø STEEL CONDUIT BRACE AT 8' O.C. MAX. STAGGERED.
15. ROOF PURLIN (SEE STRUCTURAL ROOF FRAME).
16. PLYWOOD ROOF DECK SHOWN, NOT REQ'D @ 22 GAUGE METAL ROOF DECK
17. #10 STSMS WAFER HD.
18. PLYWOOD SUB FLOOR.
19. 16d AT 8" O.C. MAX.
20. 3 1/2" x 20 GA. METAL TRACK USED FOR SPLICE.
21. 20 GA. JAMB CLIP. (SEE DETAIL #14)
22. #6 STSMS AT 24" O.C. MAX.
23. 20 GA. STRAP WIDTH MAY VARY, USED AS BACKING FOR CABINETS.
24. ALTERNATE WELDING 1" AT 18" O.C. IS AN ACCEPTABLE ALTERNATE TO BOXING AND SCREWING.
25. 4X4 DF #2 POST TO SUPPORT A/C UNIT.
26. STEEL TUBE COLUMN.
27. ROOF HEADER.
28. 1/4" FULL HGT. STIFFENER.
29. FLOOR JOIST @ 32" O.C. MIN. FOR PARTITION LOAD
30. BEND UP FLANGE OF 20 GA. TRACK AND SECURE TO JAMB STUD W/ #8 STSMS WAFER HEAD SCREWS.
31. NOT USED.
32. ROOF BEAM.

OPENING SCHEDULE

OPENING	HEADER	SILL	JAMB
3068/4068	(1) 3 1/2"x20 GA. T.	(1) 3 1/2"x20 GA. T.	(2) 3 1/2"x20 GA. S.
8040	(1) 3 1/2"x16 GA. T.	(1) 3 1/2"x16 GA. T.	(2) 3 1/2"x20 GA. S.

NOTE:
T. = TRACK
S. = STUD

DATE SIGNED JUN 04 2003

LICENSE EXPIRES 6-30-2004

ARCHITECT STAMP

DATE SIGNED MAY 21 2003

LICENSE EXPIRES 6-30-2004

STRUCTURAL ENGINEER STAMP

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL 01 1 0 5 4 2 5
AC ___ FLS ___ SS ___
DATE 6/19/03

STATE AGENCY STAMP

PC

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
4-104778
AC ___ FLS ___ SS KB
DATE: 5-30-03

STATE AGENCY STAMP

MSI
MODULAR STRUCTURES INTERNATIONAL, INC.
920 CITRUS AVE. RIVERSIDE, CALIFORNIA, 92507
PHONE: (909) 788-3035 FAX: (909) 788-1523

PROJECT: MODULAR CLASSROOM BUILDING

TITLE & BLDG. DATA: STEEL STUD WALL FRAMING DETAILS

WIND LOAD: 80 & 90 MPH
ROOF LOAD: 20 & 30 PSF
FLOOR LOAD: 50, 50+20, 100 & 125 PSF

JOB #

DATE 12-1-02

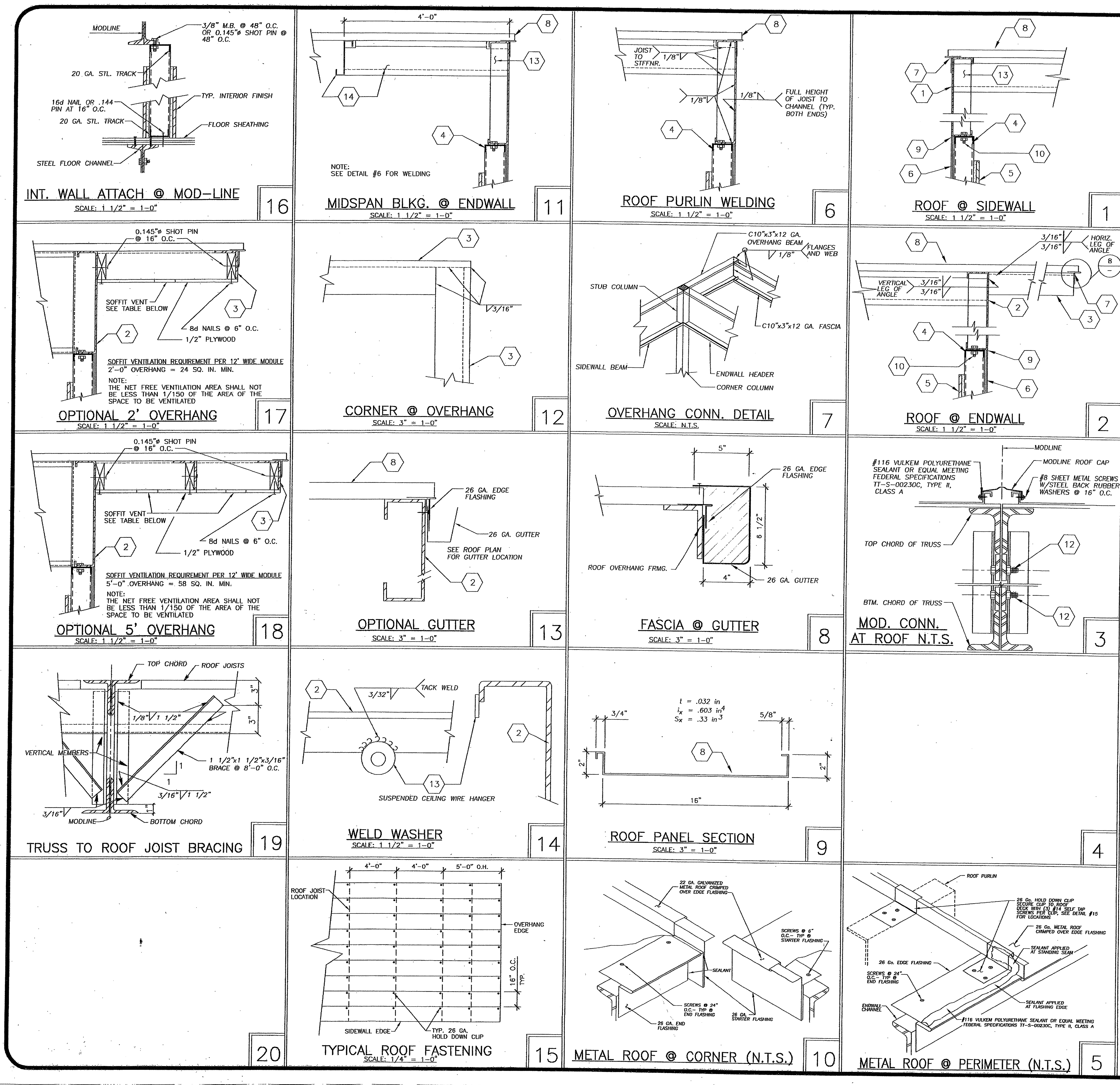
DRAWN BY JAG

SCALE AS NOTED

APPROVED

REVISIONS

SHEET NO. S-25



KEYNOTES

1. 10 GA. CHANNEL @ ROOF SIDEWALL
   DUAL SLOPE OPTION: 18/23/18x3 1/2x10 GA.
   SINGLE SLOPE OPTION: 18/28/18x3 1/2x10 GA.
2. 12 GA. CHANNEL @ ROOF HEADER
   DUAL SLOPE OPTION: 18"x3 1/2"x12 GA.
   SINGLE SLOPE OPTION: 18/28x3 1/2x 12 GA.
3. OVERHANG @ ENDWALL, SEE ROOF PLAN FOR SIZE AND SHT. G-2 FOR OVERHANG MATERIAL
4. 20 GA. STL. TRACK CONT. TOP PLATE- ATTACH TO CHANNEL W/ 0.145ø SHOT PIN AT 18" O.C. OR 3/8" BOLT AT 24" O.C. MIN.
5. INTERIOR FINISH - SEE SHEET G-2
6. TYP. EXTERIOR FINISH - SEE SHEET G-2
7. 26 GA. FLASHING
8. STEEL ROOF DECK - 22 GA. ROLL FORMED STANDING SEAM ROOF DECK. SEE DETAIL #9 ROOF PANEL SECTION. SEE DETAILS #5 AND #10 FOR ATTACHMENT SPECIFICATIONS.
9. PAINTABLE ACRYLIC LATEX SEALANT (U.N.O.)
10. 1/2ø" MACHINE BOLT W/ WASHER @ 24" OC MIN. OR 0.145ø SHOT PIN AT 18" O.C.
11. WELD WASHER - 1-3/8"x 3/32" WITH 9/16" HOLE. WELD TO UPPER CHANNEL FLANGE.
12. 5/8" MACHINE BOLT AT 8'-0" O.C. @ MODULE CONNECTION.
13. 1/4" FULL HEIGHT STIFFENER @ 4'-0" O.C.
14. 6"x 14 GA. ROOF JOIST OR BLKG.

DATE SIGNED JUN 04 2003

ARCHITECT STAMP

DATE SIGNED MAY 21 2003

LICENSE EXPIRES 6-30-2004
STRUCTURAL ENGINEER STAMP

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DIVISION OF THE STATE ARCHITECT
APPL. 01 105425
STATE AGENCY STAMP

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DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
4-104778
DATE: 5-30-03

STATE AGENCY STAMP

MSI
MODULAR STRUCTURES INTERNATIONAL, INC.
920 CITRUS AVE. RIVERSIDE, CALIFORNIA 92507
PHONE: (909) 788-3035 FAX: (909) 788-1523

PROJECT: MODULAR CLASSROOM BUILDING

TITLE & BLDG. DATA: ROOF FRAMING DETAILS W/ METAL DECK
WIND LOAD: 80 & 90 MPH
ROOF LOAD: 20 & 30 PSF
FLOOR LOAD: 50, 50+20, 100 & 125 PSF

JOB #	
DATE	12/1/02
DRAWN BY	JAG
SCALE	AS NOTED
APPROVED	
REVISIONS	

SHEET NO. S-51

BUILDING CODES AND STANDARDS

* 2013 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24, CCR
2013 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 AND 2, PART 2, TITLE 24, CCR
(2012 EDITION INTERNATIONAL BUILDING CODE WITH 2013 CALIF. AMENDMENTS)
2013 CALIFORNIA ELECTRICAL CODE, PART 3, TITLE 24, CCR
(2011 EDITION NATIONAL ELECTRICAL CODE WITH 2013 CALIF. AMENDMENTS)
2013 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, CCR
(2012 EDITION UNIFORM MECHANICAL CODE WITH 2013 CALIF. AMENDMENTS)
2013 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, CCR)
(2012 EDITION UNIFORM PLUMBING CODE WITH 2013 CALIF. AMENDMENTS)
* 2013 CALIFORNIA ENERGY CODE, PART 6, TITLE 24, CCR
2013 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, CCR
(2012 EDITION INTERNATIONAL FIRE CODE WITH 2013 CALIFORNIA AMENDMENTS)
* 2013 CALIFORNIA GREEN CODE, PART 11, TITLE 24, CCR
2013 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, CCR

* EFFECTIVE JULY 1, 2014

2013 NFPA 13, INSTALLATION OF SPRINKLER SYSTEMS (CALIFORNIA AMENDMENTS)
2013 NFPA 14, INSTALLATION OF STANDPIPE AND HOSE SYSTEMS
2013 NFPA 17, DRY CHEMICAL EXTINGUISHING SYSTEMS
2013 NFPA 17A, WET CHEMICAL EXTINGUISHING SYSTEMS
2013 NFPA 20, INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION
2013 NFPA 22, WATER TANKS FOR PRIVATE FIRE PROTECTION
2013 NFPA 24, INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES
2013 NFPA 25, INSPECTION, TESTING, MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS (CALIFORNIA AMENDMENTS)
2013 NFPA 72, NATIONAL FIRE ALARM CODE (CALIFORNIA AMENDMENTS) SEE UL STANDARD 1971 FOR "VISUAL DEVICES"
NFPA 2001 CLEAN AGENT FIRE EXTINGUISHING SYSTEMS 2012 EDITION
NFPA 253 CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS 2006 EDITION
REFERENCE CODE SECTION FOR NFPA STANDARDS 2013 CBC (SFM) CHAPTER 35

WHEN THE PRE-CHECK BUILDING IS SITE ADAPTED, THE BUILDING SHALL BE ORIENTED PER SOLAR READY DIAGRAM OR THE SITED PC SHALL HAVE A SOLAR ZONE ON ANOTHER BUILDING OR ON COVER PARKING INSTALLED WITHIN 250 FEET OF THE SITED PC WITH A SOLAR ZONE TOTAL AREA NO LESS THAN 15 PERCENT OF THE PC'S TOTAL ROOF AREA. REFER TO ENERGY CODE SECTION 110.10 (b) 1B

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MANUFACTURED RELOCATABLE MODULAR BUILDINGS
PC 02-114488 (FORMERLY 02-112506)
12'X40' TOILET BLDG MODELS
MODELS: ~~A, A-1,~~ B, ~~B-1, C, C-1, D, & D-1~~

ABBREVIATIONS

AB: Anchor Bolt
ABV: Above
AC: Air Conditioning, Alternating Current
ADA: Americans with Disabilities Act of 1992
ADD: Addendum; Addition
ADDL: Additional
ADJ: Adjust, Adjustable, Adjacent
AFF: Above Finished Floor
AFG: Above Finish Grade
AIA: American Institute of Architects
ALT: Alternate, Alteration; Altitude
ALUM: Aluminum
AMP: Ampere, Ampacity
AMT: Amount
ANCH: Anchor, Anchorage
ANOD: Anodized
APPROX: Approximate
APRVD: Approved
ARCH: Architect, Architectural
ASC: Above Suspended Ceiling
ASCE: American Society of Civil Engineers
ASME: American Society of Mechanical Engineers
ASSOC: Association; Associate
ASTM: American Society for Testing and Materials
AUTO: Automatic
AVG: Average

BD: Board
BEL: Below
BETW: Between
BKR: Breaker
BLDG: Building
BLK: Block
BLKG: Blocking
BM: Beam
BOT: Bottom
BP: Base Plate
BRKR: Breaker
BS: Both Sides
BTU: British Thermal Units
BTUH: British Thermal Units per Hour

C/C: Center to Center
CAB: Cabinet
CHAN: Channel
CI: Cast Iron
CIR: Circle, Circular, Circuit
CJ: Control Joint
CL: Centerline
CLR: Clear
CNTR: Center, Counter
CO: Cleanout, Conduit
COL: Column
CONC: Concrete
CONN: Connection
CONST: Construction
CONT: Continuous, Continue, Control
CRS: Cold Rolled Steel

D: Deep, Depth
DBL: Double
DET: Detail
DF: Douglas Fir
DIA: Diameter
DIM: Dimension
DISL: Disposal
DISP: Dispenser
DIV: Division
DL: Dead Load
DN: Down
DWG: Drawing
DWGS: Drawings

E: East
(E): Existing
EA: Each
EJ: Expansion Joint
EL: Elevation, Elevator
ELEC: Electrical
ELEV: Elevator, Elevation
EN: End Nail
EPDM: Ethylene Propylene Diene Monomer
EQ: Equal
EXT: Exterior

FE: Fire Extinguisher
FF: Finished Floor
FG: Finished Grade
FIN: Finish, finished
FLR: Floor
FND: Foundation
FOC: Face of Concrete
FOF: Face of Finish
FOS: Face of Studs, Face of Sill Plate
FT: Foot, Feet, Fully Tempered
FTG: Footing, Fitting

GA: Gauge, Gage
GAL: Gallon
GALV: Galvanized
GFCI: Ground Fault Circuit Interrupted
GFI: Ground Fault Interrupted
GI: Galvanized Iron
GND: Ground

H: High
HDR: Header
HF: Hem Fir
HR: Hour
HT: Height
HVAC: Heating, Ventilating & Air Conditioning

ID: Inside Diameter
IN: Inch
INFO: Information
INT: Interior
INV: Invert

J-BOX: Junction Box
JST: Joist
JT: Joint

KW: Kilowatt

L: Length
LB: Pound (weight), Lag Bolt
LH: Left Hand
LL: Live Load
LT: Light
LWC: Light Weight Concrete

MAX: Maximum
MECH: Mechanical
MFD: Manufactured
MFG: Manufacturer, Manufacturing
MFR: Manufacture, Manufacturer
MIL: One Thousandth of and Inch
MIN: Minimum
MIR: Mirror
MISC: Miscellaneous
MOD: Module
MT: Mount, Mounted
MTL: Material, Metal

(N): New
NEC: National Electrical Code
NIC: Not In Contract
NTS: Not To Scale

O/O: Outside to Outside
OC: On Center
OD: Outside Diameter
OH: Overhang
OPNG: Opening
OPP: Opposite

PC: Piece, Pre-Checked
PH: Phase
PL: Plate
PLYWD: Plywood
PLUMB: Plumbing
PREFAB: Prefabricated
PSF: Pounds per square foot
PSI: Pounds per square inch
PT: Pressure Treaded
PVC: Polyvinyl Chloride

QTY: Quantity

RCP: Reflected Ceiling Plan
REBAR: Reinforcing Bar
RECEP: Receptacle
REF: Refer, Reference, Refrigerator
REQ: Require, Required
REV: Reverse, Revise, Revision
RF: Roof
RGH: Rough
RH: Right Hand
RO: Rough Opening
RT: Right

S: South
S/S: Side By Side
SF: Square Foot, Square Feet
SHT: Sheet
SHTHG: Sheathing
SIM: Similar
SLV: Sleeve
SPEC: Specification, Specifications
SQ: Square
SS: Stainless Steel
ST: Steel Tube
STD: Standard
STIFF: Stiffener
STL: Steel
STRUCT: Structural

T&B: Top and Bottom
T&G: Tongue & Groove
TEMP: Temporary, Tempered, Temperature
THK: Thick, Thickness
THRU: Through
TN: Toe Nail
TPO: Thermo Plastic Olefin
TST: Top of Steel
TSTAT: Thermostat
TYP: Typical

UL: Underwriters' Laboratories
UNO: Unless Noted Otherwise
UON: Unless Otherwise Noted
USG: United States Gypsum Company

V: Volt
VERT: Vertical
VTR: Vent Through Roof

W: West, Width, Wide, Watt
W/: With
W/O: Without
WD: Wood
WP: Waterproof, Weatherproof
WR: Water Resistant, Water Repellent
WT: Weight

DRAWING SYMBOLS

2"x4" WOOD STUD OR 3.5" STEEL STUD
2"x6" WOOD STUD OR 5.5" STEEL STUD
2"x8" WOOD STUD OR 7.5" STEEL STUD
1 HR RATED (DARK LINE THROUGH SYMBOL)
INDICATES DOOR TYPE
INDICATES WINDOW TYPE
KEY NOTE SYMBOL
INDICATES INTERIOR ELEVATION ORIENTATION
INDICATES DETAIL #
INDICATES SHEET #
INDICATES DETAIL #
INDICATES SHEET #
INDICATES EXTERIOR ELEVATION #
INDICATES SHEET #
5'-0" CLEAR FLOOR SPACE FOR WHEELCHAIR ACCESSIBLE MANEUVERING WITH 12" MIN. ENCROACHMENT
48"x30" CLEAR FLOOR SPACE FOR WHEELCHAIR ACCESS TO FIXTURE
INDICATES ROOM NAME
INDICATES ROOM NUMBER
60"x60" CLEAR FLOOR SPACE FOR WHEELCHAIR ENTRY ACCESS.
WHEELCHAIR ACCESSIBLE CLEAR FLOOR SPACE AT ACCESSIBLE WATER CLOSET
60"x59" AT FLOOR MOUNTED WATER CLOSET
60"x56" AT WALL MOUNTED WATER CLOSET
GRID LINE NUMBER OR LETTER

DRAWING INDEX

SHEET NO.	ARCHITECTURAL	SHEET NO.	STRUCTURAL
A0.0	TITLE SHEET	S0.0	STRUCTURAL NOTES AND SPECIFICATIONS
A0.1	SPECIFICATIONS AND NOTES	S0.1	BUILDING SECTIONS PLYWOOD FLOOR
A0.2	CONSTRUCTION MATERIALS AND SPECIFICATIONS	~~S0.2~~	~~BUILDING SECTIONS CONCRETE FLOOR~~
A0.3	FINISH, DOOR & WINDOW SCHEDULES	S0.3	TYPICAL STRUCTURAL DETAILS
A0.4	SIGNAGE SPECIFICATIONS AND ACCESSIBILITY	S1.0	FLOOR FRAMING DETAILS-PLYWOOD & CONCRETE
		S1.1	FLOOR FRAMING PLAN-PLYWOOD
~~A1.A~~	~~FLOOR PLAN OPTIONS "A" & "A-1"~~	~~S1.2~~	~~FLOOR FRAMING PLAN-CONCRETE~~
A1.B	FLOOR PLAN OPTIONS "B" ~~& "B-1"~~		
~~A1.C~~	~~FLOOR PLAN OPTIONS "C" & "C-1"~~	S2.0	ROOF FRAMING DETAILS
~~A1.D~~	~~FLOOR PLAN OPTIONS "D" & "D-1"~~		
		S2.2	ROOF FRAMING PLAN-PLYWOOD SHEATHING
		~~S2.3~~	~~ROOF FRAMING PLAN-22 GA~~
A2.0	REFLECTED CEILING DETAILS		
~~A2.A~~	~~REFLECTED CEILING PLAN OPTIONS "A" & "A-1"~~	S3.0	WALL FRAMING DETAILS-WOOD STUD
A2.B	REFLECTED CEILING PLAN OPTIONS "B" ~~& "B-1"~~	~~S3.1~~	~~WALL FRAMING DETAILS-STEEL STUD~~
~~A2.C~~	~~REFLECTED CEILING PLAN OPTIONS "C" & "C-1"~~	S3.2	SHEAR WALL FRAMING ELEVATIONS
~~A2.D~~	~~REFLECTED CEILING PLAN OPTIONS "D" & "D-1"~~	S3.3	SHEAR WALL PLANS
		S4.0	ALLOWABLE BEAM AND HEADER PENETRATION
~~A3.1~~	~~ROOF DETAILS-22 GA METAL~~		
~~A3.2~~	~~ROOF PLAN MONO & DUAL SLOPE-22 GA METAL~~		
A3.3	ROOF DETAILS-26 GA METAL		
A3.4	ROOF PLAN MONO & DUAL SLOPE-26 GA METAL		
~~A3.5~~	~~ROOF DETAILS-TPO~~		
~~A3.6~~	~~ROOF PLAN MONO & DUAL SLOPE-TPO~~		
~~A3.7SR~~	~~SOLAR READY ROOF PLAN~~		
~~A4.A~~	~~INTERIOR ELEVATIONS OPTIONS "A" & "A-1"~~		
A4.B	INTERIOR ELEVATIONS OPTIONS "B" ~~& "B-1"~~		ELECTRICAL
~~A4.C~~	~~INTERIOR ELEVATIONS OPTIONS "C" & "C-1"~~	E0.0	ELECTRICAL DETAILS & LEGENDS
~~A4.D~~	~~INTERIOR ELEVATIONS OPTIONS "D" & "D-1"~~	~~E1.A~~	~~ELECTRICAL PLAN OPTIONS "A" & "A-1"~~
		~~E1.ASR~~	~~SOLAR READY ELECTRICAL PLAN OPTIONS "A" & "A-1"~~
		E1.B	ELECTRICAL PLAN OPTIONS "B" ~~& "B-1"~~
~~A5.A~~	~~EXTERIOR ELEVATIONS OPTIONS "A" & "A-1"-WOOD SIDING~~	~~E1.BSR~~	~~SOLAR READY ELECTRICAL PLAN OPTIONS "B" & "B-1"~~
A5.B	EXTERIOR ELEVATIONS OPTIONS "B" ~~& "B-1"~~-WOOD SIDING	~~E1.C~~	~~ELECTRICAL PLAN OPTIONS "C" & "C-1"~~
~~A5.C~~	~~EXTERIOR ELEVATIONS OPTIONS "C" & "C-1"-WOOD SIDING~~	~~E1.CSR~~	~~SOLAR READY ELECTRICAL PLAN OPTIONS "C" & "C-1"~~
~~A5.D~~	~~EXTERIOR ELEVATIONS OPTIONS "D" & "D-1" WOOD SIDING~~	~~E1.D~~	~~ELECTRICAL PLAN OPTIONS "D" & "D-1"~~
		~~E1.DSR~~	~~SOLAR READY ELECTRICAL PLAN OPTIONS "D" & "D-1"~~
		E5.0	ELECTRICAL TITLE 24 REPORTS
~~A6.A~~	~~EXTERIOR ELEVATIONS OPTIONS "A" & "A-1" STUCCO~~	E5.1	ELECTRICAL TITLE 24 REPORTS
~~A6.B~~	~~EXTERIOR ELEVATIONS OPTIONS "B" & "B-1" STUCCO~~		
~~A6.C~~	~~EXTERIOR ELEVATIONS OPTIONS "C" & "C-1" STUCCO~~		
~~A6.D~~	~~EXTERIOR ELEVATIONS OPTIONS "D" & "D-1" STUCCO~~		
A8.0	ARCHITECTURAL DETAILS		
A8.1	ARCHITECTURAL DETAILS		
A8.2	SHEET METAL AND FLASHING DETAILS		PLUMBING
		P0.0	PLUMBING SCHEDULE AND DETAILS
~~A9.0~~	~~FIRE RATED ASSEMBLIES~~	~~P1.A~~	~~PLUMBING PLAN OPTION "A" & "A-1"~~
		P1.B	PLUMBING PLAN OPTION "B" ~~& "B-1"~~
A10.0	RESTROOM ACCESSORIES SCHEDULE	~~P1.C~~	~~PLUMBING PLAN OPTION "C" & "C-1"~~
A10.1	RESTROOM ACCESSIBILITY DETAILS	~~P1.D~~	~~PLUMBING PLAN OPTION "D" & "D-1"~~
~~A11.A~~	~~ACCESSIBILITY PLAN A & A-1~~		
A11.B	ACCESSIBILITY PLAN B & B-1		RAMP & LANDING
~~A11.C~~	~~ACCESSIBILITY PLAN C & C-1~~	~~R0.0~~	~~RAMP & LANDING DETAILS~~
~~A11.D~~	~~ACCESSIBILITY PLAN D & D-1~~	~~R1.0~~	~~RAMP & LANDING PLAN (ATTACHED HANDRAIL)~~
		~~R2.0~~	~~RAMP & LANDING PLAN (FREE STANDING HANDRAIL)~~
	FOUNDATION	~~R3.0~~	~~RAMP & LANDING PLAN (OFFSET RAMP)~~
~~F0.0~~	~~GENERAL DETAILS~~	~~R4.0~~	~~RAMP & COMMON LANDING~~
F1.0	WOOD PAD FOUNDATION DETAILS	~~R5.0~~	~~STAIR & LANDING PLAN & DETAILS~~
F1.1	WOOD PAD FOUNDATION PLAN-PLYWOOD FLOOR		
~~F1.2~~	~~WOOD PAD FOUNDATION PLAN-CONCRETE FLOOR~~		
~~F2.0~~	~~ABOVE GRADE CONCRETE FOUNDATION DETAILS~~		
~~F2.1~~	~~ABOVE GRADE CONCRETE FOUNDATION PLAN~~		
~~F3.0~~	~~FLUSH TO GRADE FOUNDATION DETAILS~~		
~~F3.1~~	~~FLUSH TO GRADE FOUNDATION PLAN~~		

DESIGN PARAMETERS

FLOOR LIVE LOAD: ~~50 PSF,~~ 50+20 PSF, ~~100 PSF & 125 PSF~~

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

ROOF SNOW LOAD: 20 PSF MAX
Ce=0.9 FULLY EXPOSED, 1.0 PARTIALLY EXPOSED, 1.1 SHELTERED
Is=1.0
Ct=1.0

RAMP LIVE LOAD: 100 PSF

FLOOD HAZARD AREA: NO

WIND DESIGN:
VuH=WIND SPEED =120MPH
RISK CATEGORY = II
EXPOSURE = C
INTERNAL PRESSURE COEFFICIENT = ±0.18
Kzt = 1.0
COMPONENTS & CLADDING DESIGN BY PC ENGINEER OF RECORD

DESIGN ROOF DEAD LOAD: 16 PSF (BEAMS AND TRUSSES)

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

EARTHQUAKE DESIGN DATA:
1. RISK CATEGORY = II
2. Ie = 1.0
3. Ss = 3.0
4. S1 = 1.389
5. SITE CLASS = D
6. SDS = 1.6
7. SD1 = 1.389
8. SEISMIC DESIGN CATEGORY = E
9. BASIC "SEISMIC" FORCE RESISTING SYSTEM – LIGHT FRAME WALLS SHEATHED WITH WOOD STRUCTURAL PANELS
10. BASE SHEAR = 3157#
11. Cs = 0.246
12. R = 6.5
13. ANALYSIS PROCEDURE USED = EQUIVALENT LATERAL FORCE PROCEDURE
14. NO VERTICAL; OR HORIZONTAL IRREGULARITIES
15. RHO = 1.3

CLIMATE ZONE: THIS PC IS APPROVED FOR THE 2013 CALIFORNIA ENERGY CODE IN ALL CALIFORNIA CLIMATE ZONES

BUILDING DATA

TYPE OF CONSTRUCTION: V-B

OCCUPANCY: E

NO. OF STORIES: 1

BUILDING AREA: 12'x40' = 480 SF (600 SF MAX WITH OPTIONAL OVERHANGS)

ALLOWABLE AREA: 9,500 SF

MODULES: 12'x40'

STRUCTURAL DATA

STRUCTURAL DESIGN: SHEAR WALL

FOUNDATION: WOOD PAD: ~~50,~~ 50+20, ~~100 & 125 PSF~~
~~ABOVE GRADE CONCRETE: 50, 50+20, 100 & 125 PSF~~
~~FLUSH TO GRADE CONCRETE: 50, 50+20, 100 & 125~~ PSF

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

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

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

FIRE LIFE SAFETY

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

AUTOMATIC FIRE SPRINKLER SYSTEM: NOT REQUIRED ☒ / REQUIRED ☐

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

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

ALL GROUP 'E' OCCUPANCY BUILDING GREATER THAN 12,000 SF SHALL BE FIRE SPRINKLED PER SECTION 903.2.3.1

EXTERIOR PROJECTIONS ARE TO BE FIRE PROTECTED UNLESS PROJECTIONS COMPLY WITH SECTION 705 AND 1406

EXTERIOR WALL OPENINGS TO COMPLY WITH SECTION 705.8

IN ROOMS OR AREAS WITH SPECIAL HAZARDS SUCH AS LABORATORIES, VOCATIONAL SHOPS AND OTHER SUCH AREAS WHERE HAZARDOUS MATERIALS IN EXEMPT AMOUNTS ARE USED OR STORED SHALL BE FIRE SPRINKLED PER SECTION 903.2.3.3.

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

NOTES

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

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

NOTE: "THIS PC IS NOT APPROVED FOR CHAPTER 7A WILDLAND URBAN AREAS"

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FAX: (951) 943-9430

WEBSITE: WWW.IMPACTCONSTRUCTION.COM

PROJECT NAME:
BELLFLOWER USD
MAYFAIR HS

SHEET TITLE:
TITLE SHEET

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER
JAMES T. SIMON
No. 3602
EXP. 06/30/16
STRUCTURAL
STATE OF CALIFORNIA

DATE SIGNED
MAY 05 2016

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
03 117957
AC FLS SS TN
Date MAR 2 1 2017

PRE-CHECK (PC) DOCUMENT
CODE: 2013 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

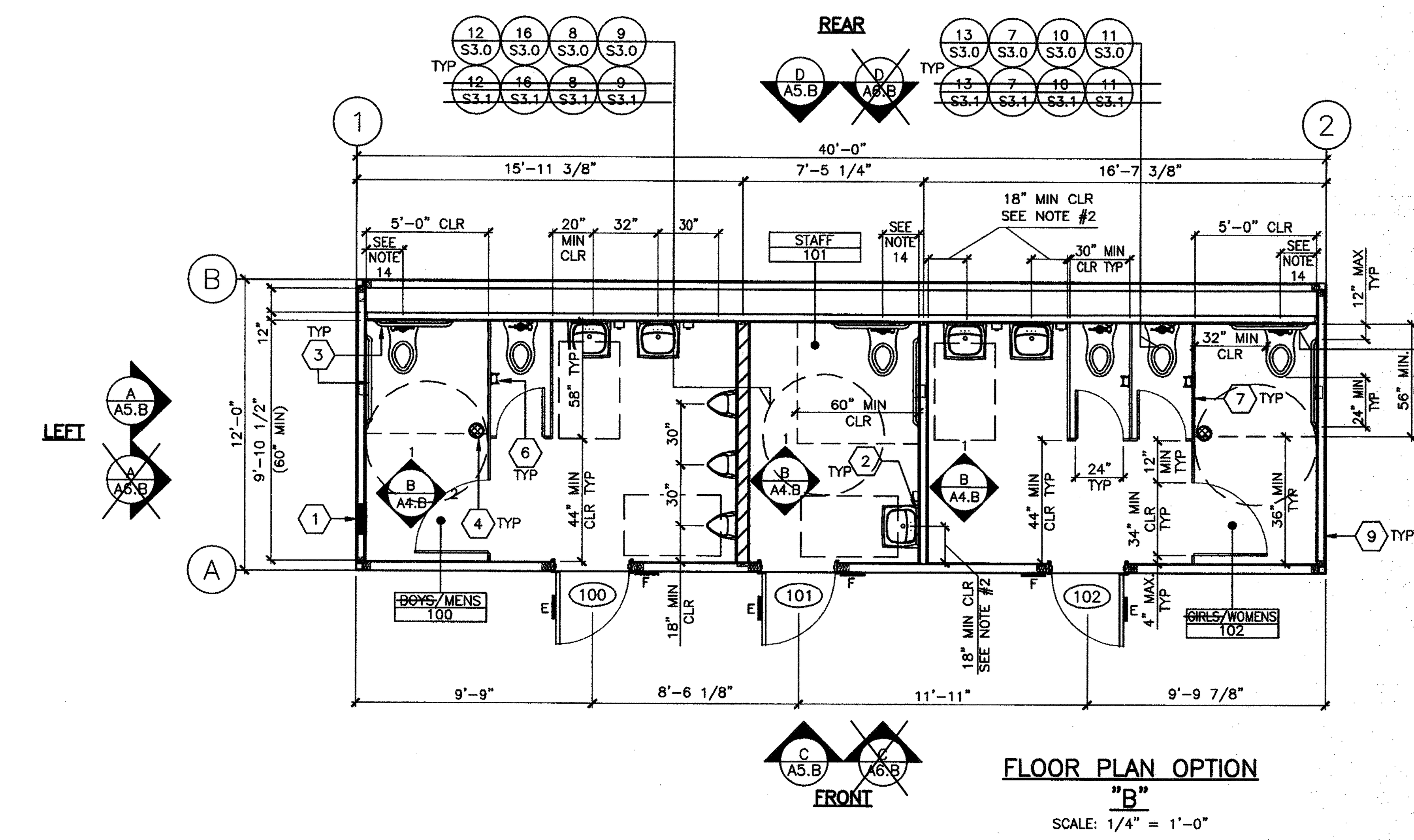
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
PC 02-114488
FILE #: PC-80
AC FLS SS
DATE: 5-24-2016

REVISIONS

1 –
2 –
3 –
4 –
5 –
6 –
7 –
8 –

PROJECT NO.:	00000
DRAWN BY:	J. CHAN-LUGAY
SCALE:	AS NOTED
DATE:	10-03-16

SHEET NUMBER
A0.0

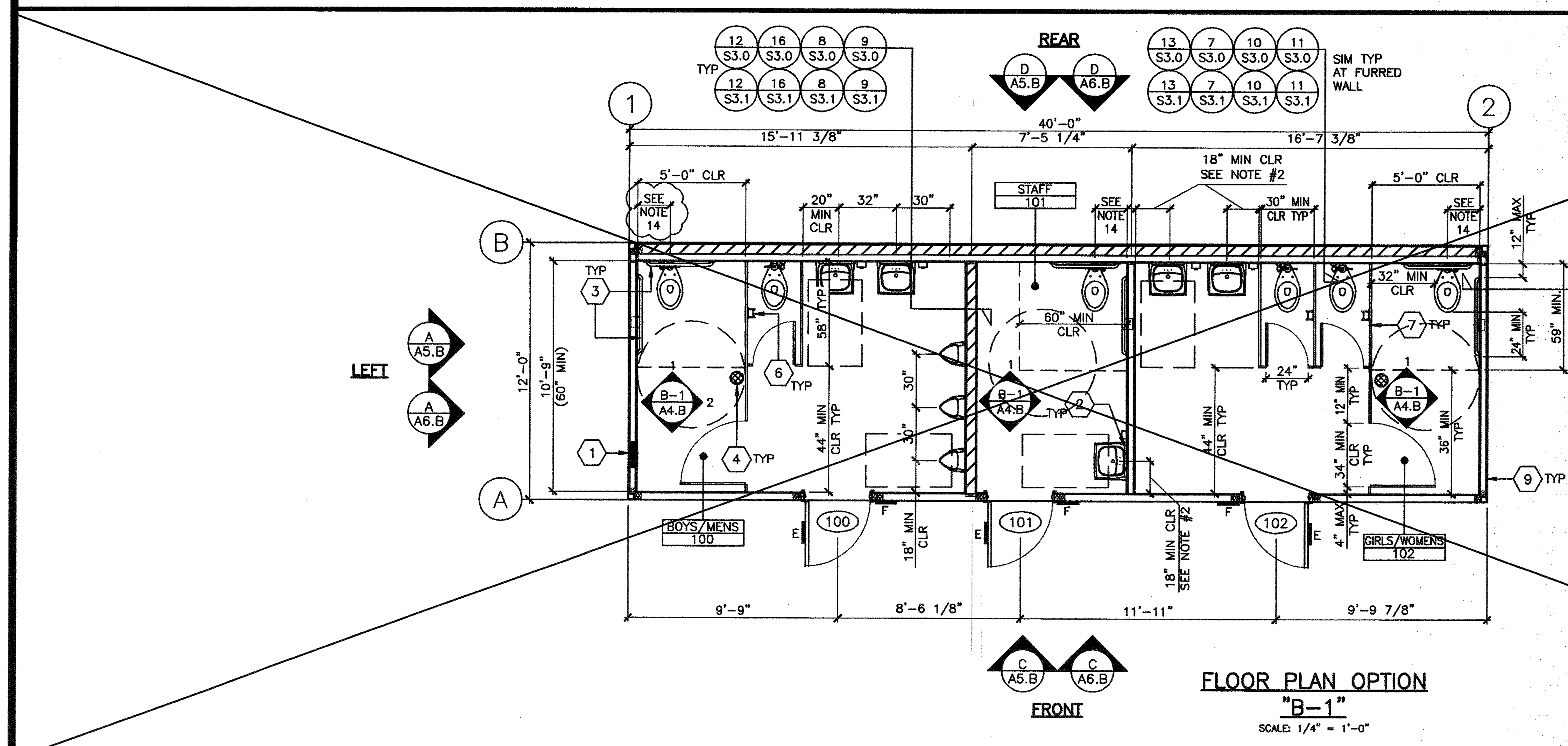


SHEAR WALL NOTE:
REFERENCE TO S3.3 FOR SHEAR WALL

NOTE: SEE PLUMBING SHEET FOR FIXTURE SCHEDULES, ACCESSORY SCHEDULES, AND POINTS OF CONNECTION COORDINATION

FLOOR PLAN OPTION "B"
SCALE: 1/4" = 1'-0"

B

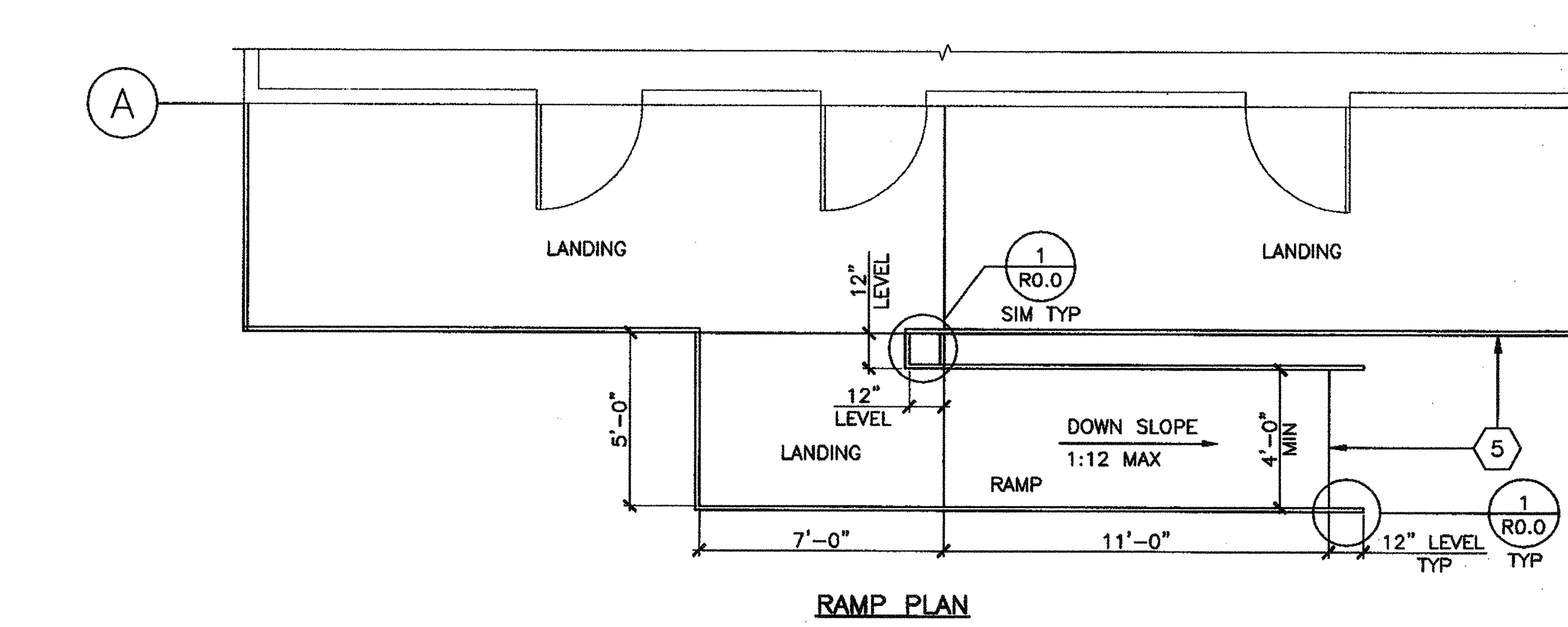


SHEAR WALL NOTE:
REFERENCE TO S3.3 FOR SHEAR WALL

NOTE: SEE PLUMBING SHEET FOR FIXTURE SCHEDULES, ACCESSORY SCHEDULES, AND POINTS OF CONNECTION COORDINATION

FLOOR PLAN OPTION "B-1"
SCALE: 1/4" = 1'-0"

B-1



RAMP PLAN OPTION
SCALE: 1/4" = 1'-0"

KEY NOTES

1. ELECTRICAL PANEL (SEE 4 OR 10/A8.1 AND ELECTRICAL SHEETS)
2. MIRROR (SEE PLUMBING SHEETS)
3. GRAB BARS (SEE PLUMBING SHEETS)
4. FLOOR DRAIN, 2& MAX. SLOPE TO DRAIN. OPENINGS IN THE FLOOR DRAIN SHALL BE LESS THAN 1/4" (SEE PLUMBING SHEETS)
5. RAMP AND LANDING (SEE RAMP DETAILS, 'R' SHEETS)
6. TOILET PAPER DISPENSER (SEE PLUMBING SHEETS)
7. 1" THICK TOILET PARTITIONS. PROVIDE ADDITIONAL FULL HEIGHT STUD FOR SUPPORT
8. NOT USED
9. SHEAR WALL PANELS TYP. AT EACH 12'-0" LONG ENDWALL. SHEAR WALL PANEL LENGTH PER SHEET S3.3

SIGNAGE LEGEND

A. = ID SIGN – #1G/A0:4
B. = EXIT TACTILE SIGN – #1C/A0.4
C. = ID SIGN WITH ISA IDENTIFICATION – #1F,G/A0.4
D. = EXIT RAMP DOWN SIGN – #1E/A0.4
E. = RESTROOM DOOR SIGN – #1B/A0.4
F. = RESTROOM WALL SIGN – #1A/A0.4

GENERAL NOTES

1. SIGNAGE REQUIRED PER APPLICABLE CODES LISTED ON COVER SHEET PROVIDED AND INSTALLED BY DISTRICT ON SITE, SEE ACCESS SHEET
2. USE 18" MIN CLR WHEN THERE ARE NO ADJACENT ACCESSORIES TO THE LAVATORY OR ACCESSORIES MUST BE LESS THAN 3" PROJECTION SO IT DOES NOT ENCROACH INTO REQUIRED CLEAR SPACE
   USE 19" MIN CLR FOR ACCESSORIES UP TO 4" MAX PROJECTION SO IT DOES NOT ENCROACH INTO REQUIRED CLEAR SPACE
3. * = SEE CHART BELOW FOR THE APPROPRIATE AGE GROUP
4. ALL DIMENSION ON THIS FLOOR PLAN ARE TO THE FACE OF FINISH UNO
5. TOILET STALLS FOR DISABLED PERSONS SHALL HAVE SLIDE BOLTS DOOR LATCH, U-SHAPE OR WIRE PULLS BOTH SIDES OF THE DOOR (IMMEDIATELY BELOW THE LATCH) AND SELF-CLOSING HINGES DOOR HARDWARE SHALL BE MOUNTED AT 30" TO 44" ABOVE FINISHED FLOOR
6. DOORS AT FRONT ENTRY STALLS SHALL HAVE 32" MINIMUM CLEAR WIDTH WHEN THE DOOR IS OPEN 90°
7. DOORS AT SIDE ENTRY SHALL HAVE 34' MINIMUM CLEAR WIDTH WHEN THE DOOR IS OPEN 90°
8. TOILET ACCESSORIES REQUIRED TO BE ACCESSIBLE SHALL BE MOUNTED AT HEIGHTS ACCORDING TO CBC SECTION 11B-603.5
9. THE GRAB BAR CAN NOT PROJECT MORE THAN 3" INTO THE 48" MINIMUM CLEAR SPACE IN FRONT OF THE WATER CLOSET 11B-604.5
10. CONSIDER TOILET PAPER AND FEMININE NAPKIN DISPENSERS LOCATED ON THE GRAB BAR SIDE OF AN ACCESSIBLE TOILET ROOM OR STALL SHOULD NOT PROJECT MORE THAN THE GRAB BAR THE ACCESSORY SHALL NOT BE LOCATED CLOSER THAN 1-1/2" CLEAR OF THE TANGENT POINT OF THE GRAB BAR ACCESSORIES SURFACE MOUNTED ABOVE GRAB BAR WILL RESTRICT USABILITY
11. ACCESSIBLE PLUMBING FIXTURES SHALL COMPLY WITH ALL OF THE REQUIREMENTS OF CBC SECTION 11B-603, 11B-604 & 11B-605
12. HEIGHTS AND LOCATION OF ALL FIXTURES SHALL BE ACCORDING TO CBC TABLE 11B-601
13. FIXTURE CONTROLS SHALL COMPLY WITH CBC SECTION 11B-309
14. * = ADULT USE 17" TO 18"
   ~~CHILDREN USE 12" TO 18" SEE CHART BELOW, AGE GROUP TO BE SELECTED FOR PROJECT SPECIFIC PRIOR TO CONSTRUCTION.~~

CHILDREN'S WATER CLOSET HEIGHTS CHART

TABLE 11B-604.9
SUGGESTED DIMENSIONS FOR CHILDREN'S USE

SUGGESTED DIMENSIONS FOR WATER CLOSETS SERVING CHILDREN AGES 3 THROUGH 12			
	AGES 3 AND 4	AGES 5 THROUGH 8	AGES 9 THROUGH 12
WATER CLOSET CENTERLINE	12 INCHES	12 TO 15 INCHES	15 TO 18 INCHES
TOILET SEAT HEIGHT	11 TO 12 INCHES	12 TO 15 INCHES	15 TO 17 INCHES
GRAB BAR HEIGHT	18 TO 20 INCHES	20 TO 25 INCHES	25 TO 27 INCHES
DISPENSER HEIGHT	14 INCHES	14 TO 17 INCHES	17 TO 19 INCHES

PROJECT SPECIFIC HEIGHT USE:
TO BE CHECKED OFF WHEN PREPARING PROJECT SPECIFIC DRAWINGS SET.

[X] ADULT

[ ] CHILDREN AGES___ THROUGH ___

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CONTRACTORS LICENSE #945691

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WEBSITE: WWW.IMPACTCONSTRUCTION.COM

PROJECT NAME:
BELLFLOWER USD
MAYFAIR HS

SHEET TITLE:
FLOOR PLAN OPTIONS
"B" & "B-1"

MFR. STRUCTURAL ENGINEER OF RECORD ON PC
REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No. 3602 EXP. 06/30/18 STRUCTURAL STATE OF CALIFORNIA
MAY 05 2016

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
03 117957
AC FLS SS
MAR 21 2017

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PC 02-114488
FILE #: PC-80
AC FLS SS
DATE: 10 24 16

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2 –
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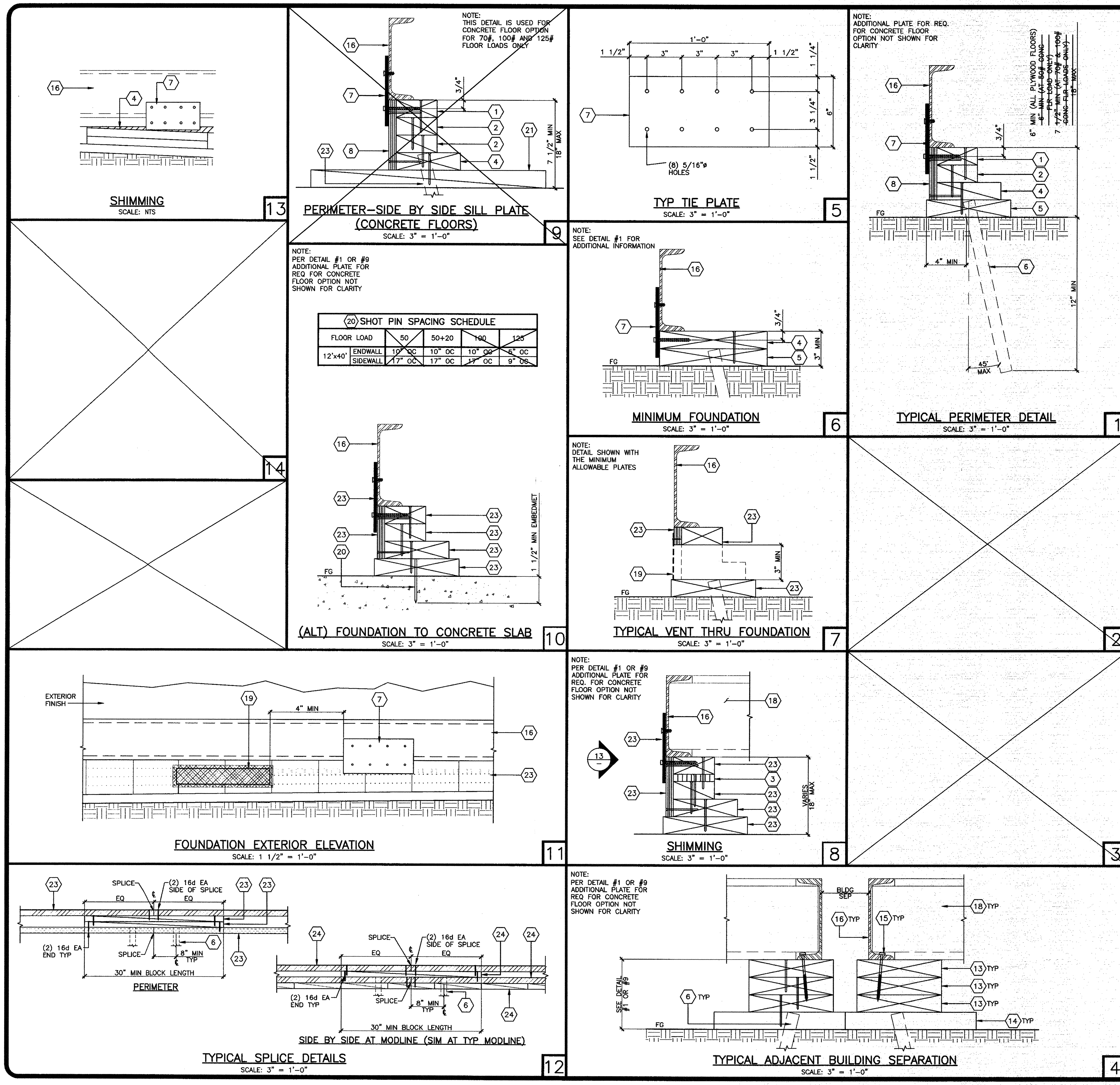
7 –
8 –

PROJECT NO.:	00000
DRAWN BY:	J. CHAN-LUGAY
SCALE:	AS NOTED
DATE:	10-03-16

SHEET NUMBER
A1.B



KEY NOTES

1. CONTINUOUS TOP PLATE FOR PLYWOOD FLOOR OPTION: INSTALL NAIL TO EACH PAD WITH 16d BOX NAILS AT 3" OC STAGGERED & (2) 16d NAILS AT EACH END OF SPLICE, MIN. 1 1/2" PENETRATION

   CONTINUOUS TOP PLATE FOR CONCRETE FLOOR OPTION: INSTALL NAIL TO EACH PAD WITH 16d BOX NAILS AT 2 1/2" OC STAGGERED & (2) 16d NAILS AT EACH END OF SPLICE, MIN. 1 1/2" PENETRATION

2. BLOCK PLATES FOR PLYWOOD FLOOR OPTIONS: 16d BOX NAILS AT 3" OC FOR 50#, 70# 100# & 125# FLOOR LOADS (2) 16d NAILS AT EACH END

   BLOCK PLATES FOR CONCRETE FLOOR OPTIONS: 16d BOX NAILS AT 2 1/2" OC FOR 50#, 70# 100# & 125# FLOOR LOADS (2) 16d NAILS AT EACH END

3. 1 1/2" MAX TAPERED SHIMS NAIL TO FOUNDATION PLATES WITH 16d BOX NAILS AT 2 1/2" FOR PLYWOOD FLOOR OR 3" OC FOR CONCRETE FLOOR NAIL STAGGERED ALONG EACH TAPERED SHIM (PER SLOPE OF GROUND AT SITE)

4. BLOCK PLATE PLATE SPLICES SHALL OCCUR AT CENTER OF BLOCK PLATE LOCATIONS (SEE GENERAL NOTE #3) WITH 16d BOX NAILS AT 3 " OC FOR PLYWOOD FLOOR AND 2 1/2" FOR CONCRETE FLOOR AND (2) 16d NAILS AT EACH END

5. CONTINUOUS PRESSURE TREATED SILL PLATE, PLATE SPLICES SHALL OCCUR AT CENTER OF BLOCK PLATE LOCATION

6. 1"ø x 19" STANDARD WEIGHT HOT DIPPED GALVANIZED PIPE AT 10'-0" OC MAX, 2'-0" MAX FROM EACH CORNER IN BOTH DIRECTIONS AND A MINIMUM OF TWO PIPES PER DISCONTINUE FOUNDATION STRIP PER DSA IR 16-1 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

7. 12" X 6" X 10 GA. GALV TIE PLATE WITH (8) 5/16" HOLES AS SHOWN FOR (4) 1/4"x1" LONG STS INTO CHANNEL & (4) 1/4"x3" LAG BOLTS INTO 2x MEMBER TYP LOCATE 4" MIN FROM SPLICES & END OF FOUNDATION PLATES

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

9. NOT USED

10. NOT USED

11. NOT USED

12a. NOT USED

12b. NOT USED

13. BUILDING SEPARATION-CONTINUOUS PLATE NAIL (2) 16d AT 4" OC AND (2) 16d AT EACH END

14. BUILDING SEPARATION-SIDE BY SIDE PRESSURE TREATED SILL PADS (SEE BUILDING SEPARATION SCHEDULE FOR QUANTITY)

15. 11/16"ø HOLE IN FLOOR JOIST FOR 5/8"ø x 4" LAG BOLT (SEE LAG SCHEDULE FOR AMOUNT)

16. FLOOR CHANNEL (SEE STRUCTURAL FLOOR FRAMING SHEET)

17. NOT USED

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 FREE OPENING. VENTING SCREEN SHALL BE 2" LARGER THAN THE SIZE OF THE NET FREE 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. WIRE MESH NO MORE THAN 0.070 THICK WITH MESH OPENINGS OF 1/4"

20. 0.145"ø X 4" LONG X-CR SS 'HILTI' SHOT PIN PER ICC REPORT #ESR-1663 (SEE SCHEDULE FOR QUANTITY, STAGGER SPACING)

21. BOTTOM SILL PLATES SIDE BY SIDE

22. NOT USED

23. PER DETAIL #1

24. PER DETAIL #3

GENERAL NOTES:

1. CONTINUOUS PLATES, OTHER THAN TOP OR BOTTOM PLATE, CAN BE CUT AS NECESSARY FOR VENTING PURPOSES

2. SEE INDIVIDUAL FOUNDATION SHEETS FOR ALL PLATE, BLOCKS AND SILL PLATE SIZES AS REQUIRED FOR FLOOR LIVE LOAD DESIGN

3. BLOCKS ABOVE SILL PLATES ARE TO BE CENTERED

4. FOR PROJECT SPECIFIC VARIES SITE GRADE CONDITIONS, DETAIL #6/- SHALL ONLY APPLY AT MAX TWO BUILDING CORNERS (WHEN NECESSARY) TO ALLOW VENTILATION AT OTHER SIDES OF THE BUILDING. WHEN APPLICABLE (EITHER AT ONE OR TWO BUILDING CORNERS), VERIFY PROPER VENTILATION REQUIREMENTS. IF MIN VENTILATION IS NOT MET, SITE GRADE CONDITION MUST BE RE-GRADED (BY DISTRICT)

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PROJECT NAME:
BELLFLOWER USD
MAYFAIR HS

SHEET TITLE:
WOOD PAD FOUNDATION DETAILS

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER
JAMES T. SIMPSON
No. 3602
EXP. 06/30/16
STRUCTURAL
STATE OF CALIFORNIA

DATE SIGNED
MAY 05 2016

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

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PROJECT NO.:	00000
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SCALE:	AS NOTED
DATE:	10-03-16

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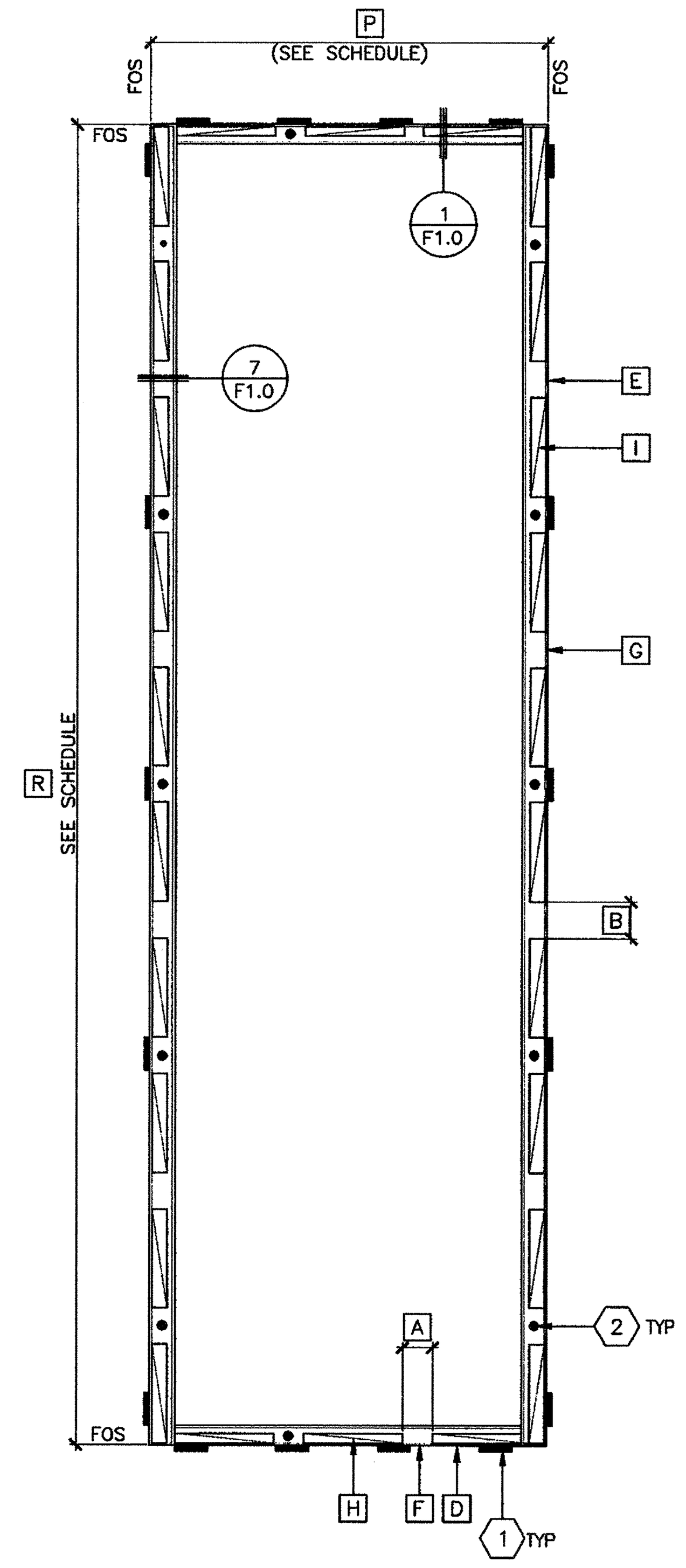
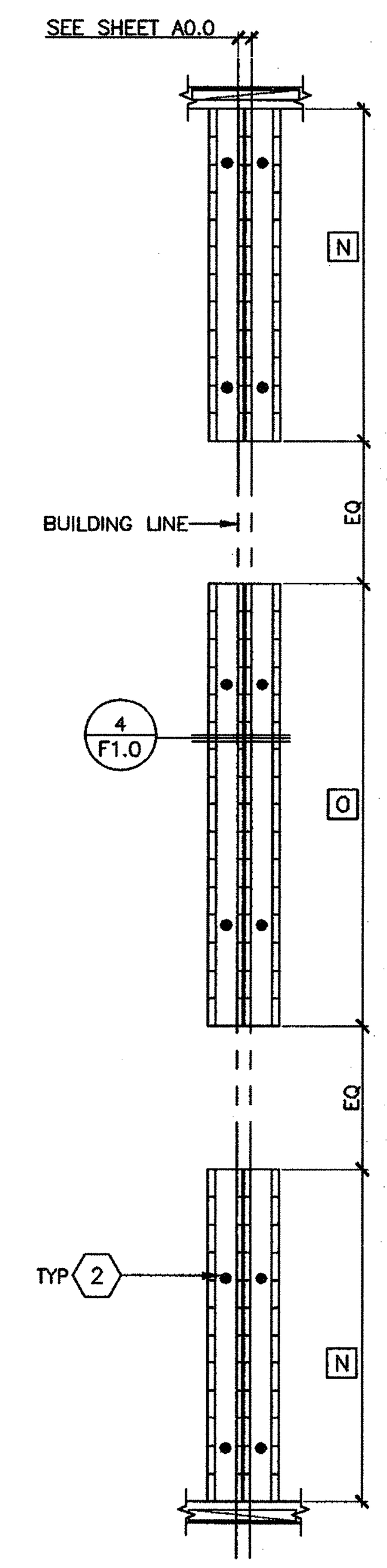
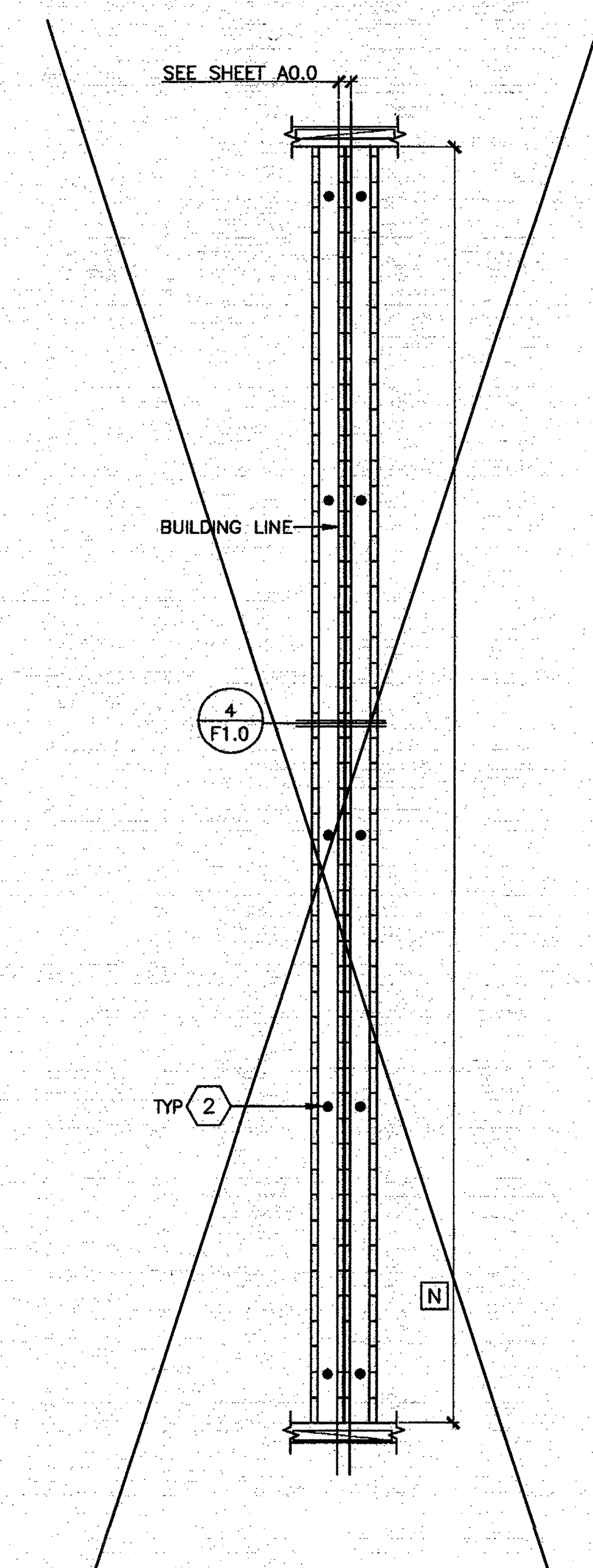
F1.0



~~50,~~ 50+20, ~~100 & 125~~ PSF FLL
FOUNDATION PLAN
SCALE: 1/4"=1'-0"



50 & 50+20 PSF FLL
ADJACENT FOUNDATION PLAN
SCALE: 1/4" = 1'-0"



100 & 125 PSF FLL
ADJACENT FOUNDATION PLAN
SCALE: 1/4" = 1'-0"

SCHEDULES

	MAX SPACE BETWEEN FOUNDATION BLOCKS				
	FLOOR LIVE LOAD PSF	50	50+20	100	125
A	END WALL	24"	24"	24"	24"
B	SIDE WALL	23"	22"	20"	14"

	WOOD PAD FOUNDATION (PERIMETER)				
	FLOOR LIVE LOAD PSF	50	50+20	100	125
D	SILL PLATE (END WALL)	2x8 CONT	2x8 CONT	2x8 CONT	2x6 CONT
E	SILL PLATE (SIDE WALL)	2x10 CONT	2x12 CONT	2x14 CONT	2x CONT BLOCK x 14"L
F	BLOCK PLATE (END WALL)	2x6	2x6	2x6	2x6
G	BLOCK PLATE (SIDE WALL)	2x6	2x6	2x6	2x8
H	BLOCKPLATE (END WALL)	2x4	2x4	2x4	2x6
I	BLOCKPLATE (SIDE WALL)	2x4	2x4	2x4	2x6
J	CONT. TOP PLATE	2x4	2x4	2x4	2x6

	ADJACENT BUILDING SEPARATION	
	50 PSF	
N	SILL PLATE	(12) 2x10 x 24"L
	PLATES	2x8 x LENGTH OF SILL PLATE
O	SILL PLATE	(16) 2x10 x 24"L
	PLATES	2x8 x LENGTH OF SILL PLATE
	50+20 PSF	
N	SILL PLATE	(12) 2x10 x 30"L
	PLATES	2x8 x LENGTH OF SILL PLATE
O	SILL PLATE	(16) 2x10 x 30"L
	PLATES	2x8 x LENGTH OF SILL PLATE
	100 PSF	
N	SILL PLATE	2x10 x 30"L
	PLATES	2x10 CONT
	125 PSF	
N	SILL PLATE	2x10 x 30"L
	PLATES	2x10 CONT

	TOTAL FOUNDATION FOS TO FOS	
	50 PSF	12'x40'
P	MODULE	12'-0 1/4"
Q		
R	SIDE WALL LENGTH	40'-0 1/2"
	50+20 PSF	12'x40'
P	MODULE	12'-0 3/8"
Q		
R	SIDE WALL LENGTH	40'-0 3/4"
	100 PSF	12'x40'
P	MODULE	12'-0 3/8"
Q		
R	SIDE WALL LENGTH	40'-0 3/4"
	125 PSF	12'x40'
P	MODULE	12'-0 3/8"
Q		
R	SIDE WALL LENGTH	40'-0 3/4"

LAG SCHEDULE (AT SEP ONLY)			
BUILDING SIZE	FLOOR LOAD PSF	LAG QUANTITY (PER MODULE)	PLATE TO PLATE
12'x40'	~~50~~	~~4~~	~~16d BOX AT 3" OC~~
	50+20	4	16d BOX AT 3" OC
	~~100~~	~~5~~	~~16d BOX AT 3" OC~~
	~~125~~	~~6~~	~~16d BOX AT 3" OC~~

TIE PLATE SCHEDULE			
BUILDING SIZE	FLOOR LOAD PSF	FACE PLATES PER SIDEWALL EQ SPACED	FACE PLATES PER ENDWALL EQ SPACED
12'x40'	~~50~~	~~4~~	~~5~~
	50+20	4	5
	~~100~~	~~5~~	~~5~~
	~~125~~	~~5~~	~~5~~

STAND-ALONE BUILDING VENTILATION	
REQUIRED VENTILATION	MIN. VENTS PER SIDE
12'x40' = 3.2 SF	2

MULTIPLE-BUILDING VENTILATION		
MULTIPLE BLDG VENT	MIN. VENT PER END WALL	MIN. VENT PER SIDE WALL
24'x40' = 6.4 SF	2	6
36'X40' = 9.6 SF	2	6
48'x40' = 12.8 SF	2	6

NOTE: SIZE ABOVE INDICATES LENGTHS OF BUILDING GROUPS (NOT A SINGLE BUILDING)

KEY NOTES

1. TIE PLATE (SEE SCHEDULE FOR QUANTITY)
2. GALVANIZED PIPE (SEE WOOD PAD FOUNDATION DETAILS SHEET)

GENERAL NOTES:

1. DESIGN ALLOWABLE SOIL BEARING PRESSURE – 1000 PSF
2. ALL FOUNDATION LUMBER SHALL BE HF #2 ALL LUMBER IN CONTACT WITH GRADE SHALL BE STAMPED "FOR GROUND CONTACT" ALL FOUNDATION FASTENERS SHALL BE CORRISION RESISTANT PER 2304.9.5
3. CONTINUOUS TOP PLATE NOT SHOWN FOR CLARITY
4. MAXIMUM 2,160 SQ FT FOR STAND-ALONE WOOD PAD FOUNDATION SYSTEM PER DSA IR 16-1
5. MINIMUM (3) SIDES FOR CROSS VENTILIZATION
6. THE ENDWALL SIDE MUST BE VENTED

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PROJECT NAME:
BELLFLOWER USD
MAYFAIR HS

SHEET TITLE:
WOOD PAD FOUNDATION PLAN
PLYWOOD FLOOR

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER
JAMES T. SIMPSON
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EXP. 06/30/18
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SCALE:	AS NOTED
DATE:	10-03-16

SHEET NUMBER
F1.1

TMP SERVICES

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PC

ACCESSIBLE RAMPS/ LANDINGS/STAIRS

STATE OF CALIFORNIA - 2018 IBC/2019 CBC

NOTES:

LOADS:

1. RAMP LIVE LOAD = 100 PSF
2. NO SNOW LOADING
3. NO FLOOD LOADING
4. WIND:
   WIND SPEED = 130 MPH
   RISK CATEGORY = II
   EXPOSURE = C
   K_{ZT}= 1.0
   WIND DESIGN PER ASCE 7-16 CHAPTER 29
5. SEISMIC:
   RISK CATEGORY = II
   I_e = 1.0
   S_S = 3.73
   S_1 = 1.30
   SITE CLASS = D
   S_{DS}= 2.984
   C_S = 1.119 (ASCE 7-16 EQUATION 15.4-2)
   R = 3.25 (ASCE 7-16 TABLE 15.4-1)
6. ALLOWABLE SOIL BEARING = 1000 PSF
7. THIS PC CANNOT BE USED IN WILDLAND URBAN INTERFACE (WUI) AREAS.

CODES: (TITLE 24 CODES)

2019 CALIFORNIA ADMINISTRATIVE CODE (CAC)....(PART 1, TITLE 24, CCR)

2019 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 AND 2 (PART 2, TITLE 24, CCR) (2018 EDITION INTERNATIONAL BUILDING CODE WITH 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA FIRE CODE (CFC), (PART 9, TITLE 24, CCR) (2018 EDITION INTERNATIONAL FIRE CODE WITH 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA GREEN CODE (CFC), (PART 9, TITLE 24, CCR)

2019 CALIFORNIA REFERENCED CODE, (PART 12, TITLE 24, CCR)
NFPA 13 2016
NFPA 72 2016

2019 CODE SECTIONS FOR APPLICABLE STANDARDS
2019 CBC, CHAPTER 35

TABLE OF CONTENTS

ALTERNATE RAMPS/LANDINGS/STAIRS

Sheet No.	Description	Dated	Revised
~~1A~~	~~COVER SHEET~~	~~03 FEB 2020~~	
~~2A~~	~~ACCESSIBLE RAMP ELEVATIONS & DETAILS~~	~~03 FEB 2020~~	
~~3A~~	~~ACCESSIBLE RAMP DETAILS & NOTES~~	~~03 FEB 2020~~	
~~4A~~	~~DETAILS & NOTES~~	~~03 FEB 2020~~	
~~5A~~	~~ACCESSIBLE RAMP SWITCH BACK DETAILS~~	~~03 FEB 2020~~	
~~6A~~	~~STAIRS - OPTIONAL~~	~~03 FEB 2020~~	
~~7A~~	~~ACCESSIBLE RAMP OPTIONAL ALUMINUM DECK~~	~~03 FEB 2020~~	
~~8A~~	~~ACCESSIBLE RAMP ELEVATIONS & PLAN VIEWS~~	~~03 FEB 2020~~	

DSA APPROVALS

"CONSTRUCTION OF" AND "STOCKPILE OF" EXAMPLE DSA 103 FORM (DSA 103 FORM NOT REQUIRED FOR RELOCATION OF CERTIFIED RAMP & LANDING).

THE EXAMPLE FORM DSA-103 SHOWN ON THIS SHEET IS FOR ILLUSTRATION PURPOSES ONLY TO ASSIST IN THE COMPLETION OF FUTURE PROJECT-SPECIFIC FORM DSA-103'S. A FORM DSA-103 IS TO BE COMPLETED FOR EACH APPLICATION THAT THIS PC IS BEING INCORPORATED INTO AND THE EXAMPLE FORM DSA-103 IS TO BE CROSSED OUT ON THIS DRAWING.

EXL
STRUCTURAL ENGINEERS, INC.
4091 RIVERSIDE DRIVE, SUITE 114
CHINO, CALIFORNIA 91710

MEMBER
STRUCTURAL ENGINEERS ASSOCIATION OF CALIFORNIA
AMERICAN CONCRETE INSTITUTE
(909) 613-0234

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

REGISTERED PROFESSIONAL ENGINEER
JAMES T. SIMAS
No.3602
STRUCTURAL
STATE OF CALIFORNIA

DATE SIGNED January 7, 2021

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-119501 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 02/09/2021

COVER SHEET

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FAX: (951)213 3997

SITE:

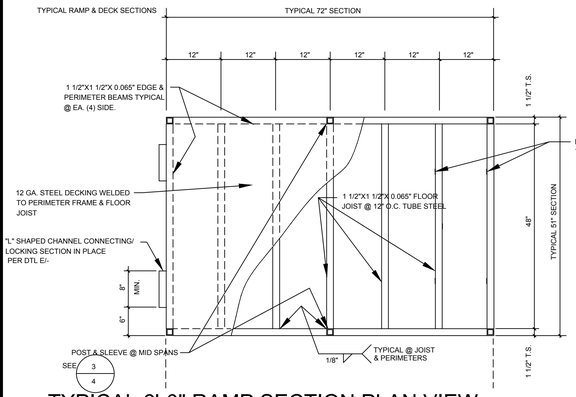
STATE OF CALIFORNIA
-2019 CBC
PC

DRAWN
CHECKED
DATE 03 FEB 2020
SCALE
JOB NO.

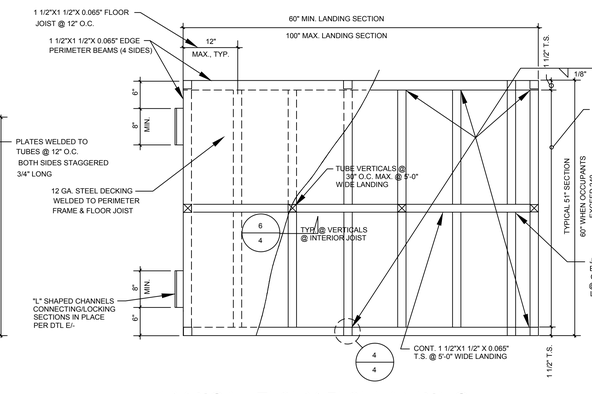
R.1

1 OF 16 SHEETS

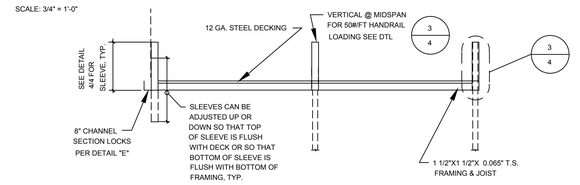
TMP SERVICES DSA RAMP & LANDING - STEEL SHEET 1.DWG



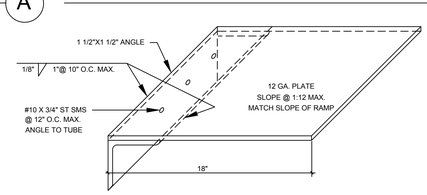
TYPICAL 6'-0" RAMP SECTION PLAN VIEW (A)



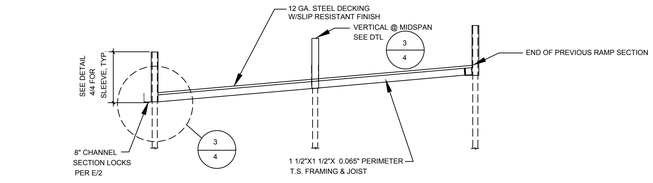
TYPICAL 7'-0" X 5'-0" LANDING (G)



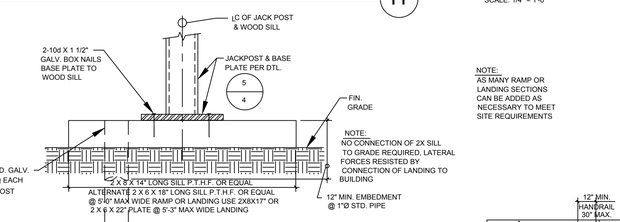
SIDE/END VIEW OF LEVEL DECK SECTION (B)



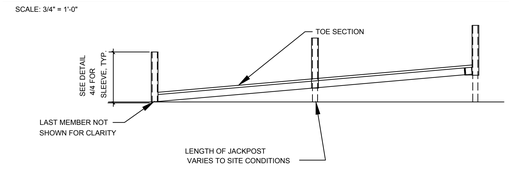
OPTIONAL TOE PLATE (H)



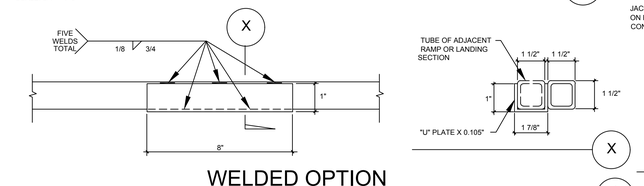
SIDE VIEW OF SLOPING RAMP SECTION TYPICAL (C)



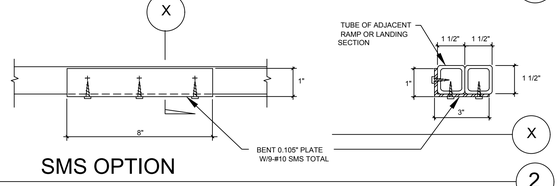
ALTERNATE WOOD SILLS @ JACK POST TO GRADE WHERE CONCRETE OR AC PAVING DOES NOT OCCUR (J)



TOE SECTION (D)

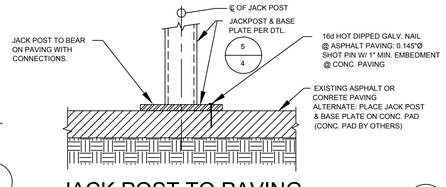


WELDED OPTION (X) 1

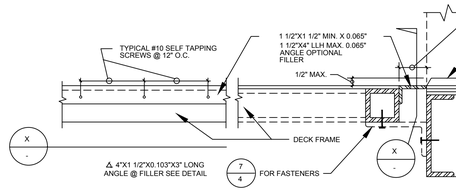


SMS OPTION (X) 2

8" CHANNEL SECTION (E)

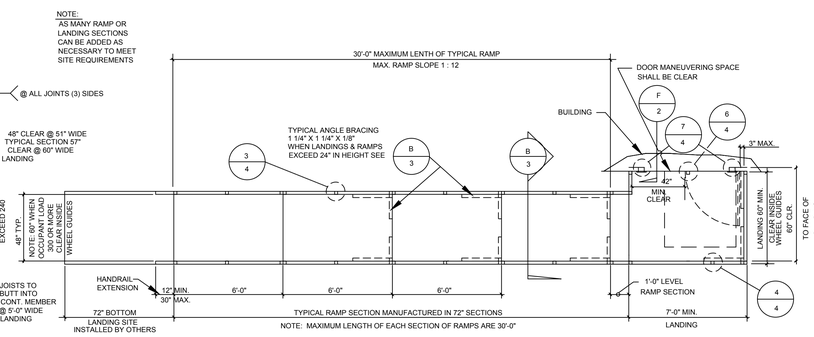


JACK POST TO PAVING (JA)

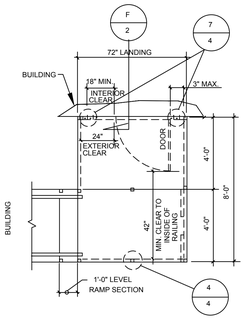


FILLER DETAIL (F)

NOTE:
AS MANY RAMP OR LANDING SECTIONS CAN BE ADDED AS NECESSARY TO MEET SITE REQUIREMENTS



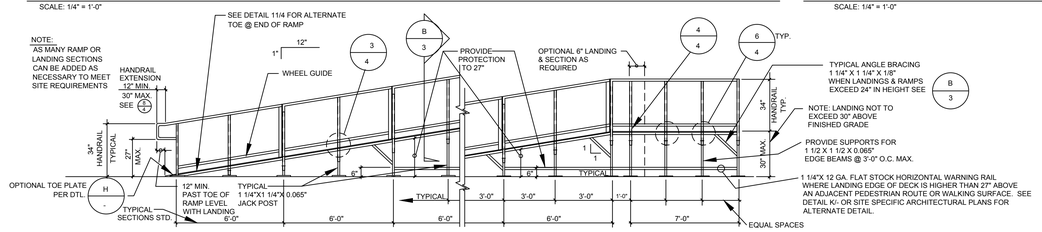
TYPICAL PLAN VIEW OF ACCESSIBLE RAMP & DECK LAYOUT



OPTIONAL LANDING

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

NOTE:
AS MANY RAMP OR LANDING SECTIONS CAN BE ADDED AS NECESSARY TO MEET SITE REQUIREMENTS

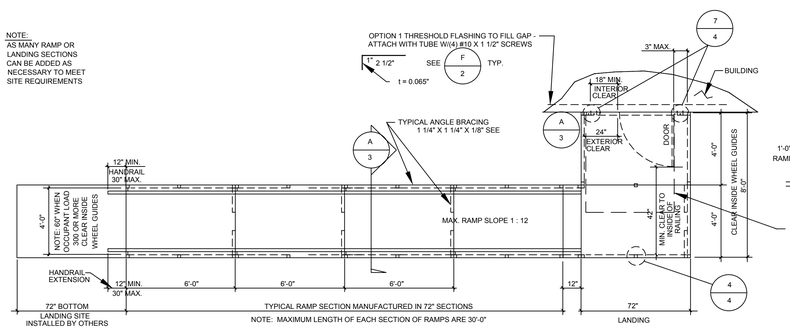


TYPICAL ELEVATION OF ACCESSIBLE RAMP & DECKING 30" OR LESS

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

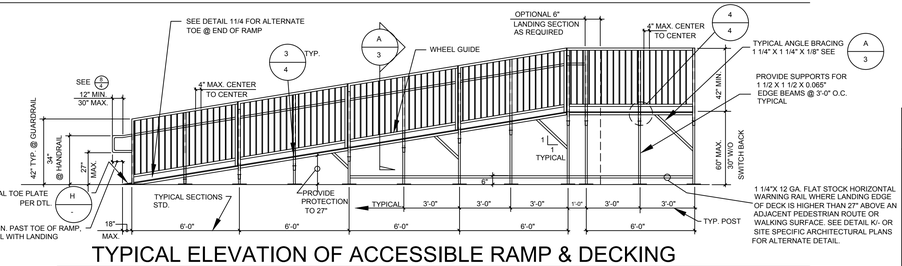
NOTE: SEE PLAN SHEET 3 FOR HANDRAIL SIZES

NOTE:
AS MANY RAMP OR LANDING SECTIONS CAN BE ADDED AS NECESSARY TO MEET SITE REQUIREMENTS



TYPICAL PLAN VIEW OF ACCESSIBLE RAMP & DECK LAYOUT OVER 30" DESIGN

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

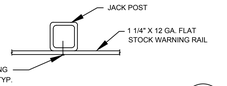


TYPICAL ELEVATION OF ACCESSIBLE RAMP & DECKING

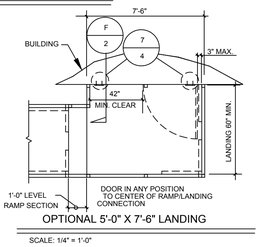
SCALE: 1/4" = 1'-0"

NOTE: 1. SEE PLAN SHEET 3 FOR HANDRAIL/GUARDRAIL SIZES

2. PROVIDE INTERMEDIATE LANDINGS AND SWITCH BACK OR MULTIPLE RAMP SECTIONS AS REQUIRED WHERE ELEVATION DIFFERENCE AT RAMP EXCEEDS 30" MAX. RISE, SEE SHEET 5 FOR OPTIONAL RAMP/LANDING LAYOUTS.



K



OPTIONAL 5'-0" X 7'-6" LANDING

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

STRUCTURAL ENGINEERS, INC.
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MEMBER
STRUCTURAL ENGINEERS ASSOCIATION OF CALIFORNIA
AMERICAN CONCRETE INSTITUTE
(909) 613-0234

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

REGISTERED PROFESSIONAL ENGINEER
JAMES T. SIMPSON
No.3602
STRUCTURAL
STATE OF CALIFORNIA

DATE SIGNED January 7, 2021

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-119501 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 02/09/2021

ACCESSIBLE RAMP ELEVATIONS & DETAILS

TMP SERVICES
2929 KANSAS AVE.
RIVERSIDE, CA 92507
PHONE: (951)213-3900
FAX: (951)213 3997

DSA APPROVALS

SITE:

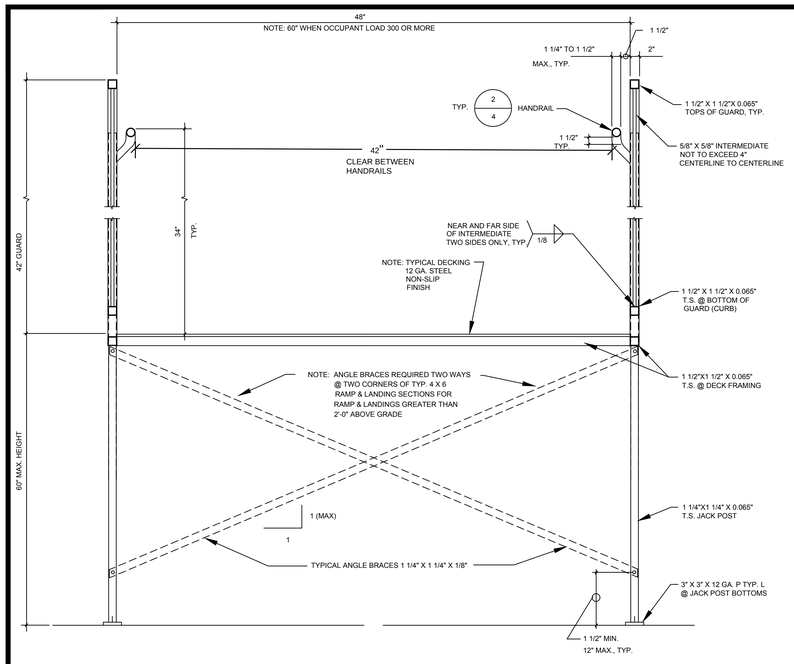
STATE OF CALIFORNIA -2019 CBC PC

DRAWN
CHECKED
DATE 03 FEB 2020
SCALE
JOB NO.

R.2

2 OF 16 SHEETS

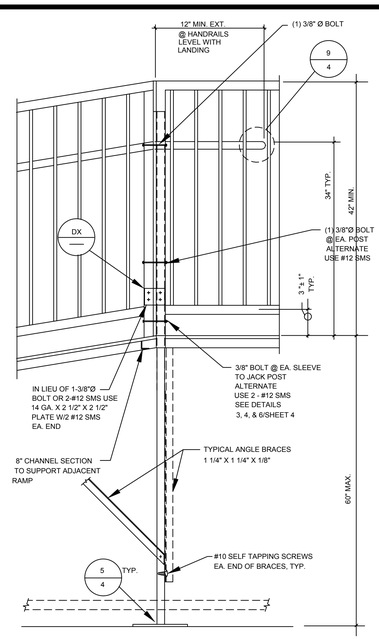
TMP DSA RAMP AND LANDING STEEL SHEET 2.DWG



A

TYPICAL CROSS SECTIONS +30"

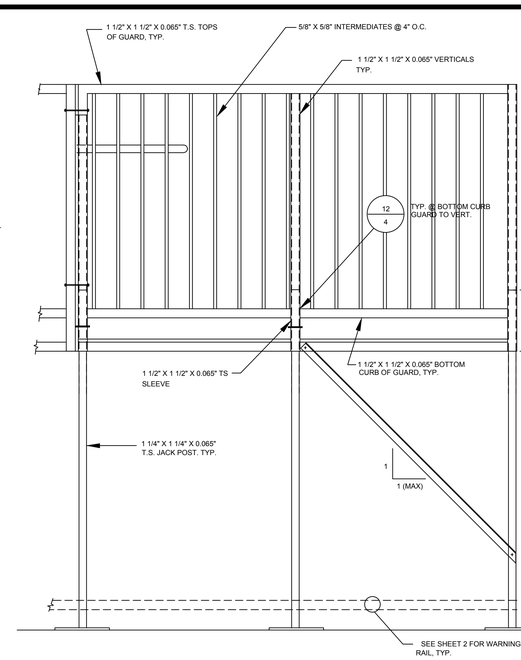
SCALE: 1" = 1'-0"



C

POST SECTION +30"

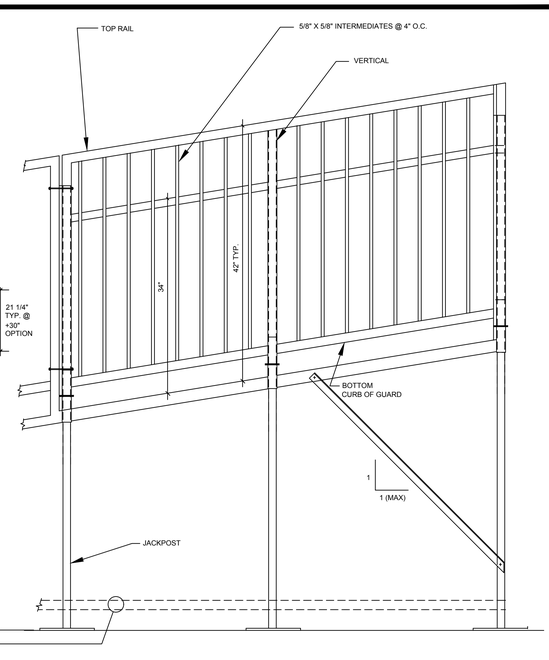
SCALE: 1" = 1'-0"



E

LANDING RAIL LAYOUT +30"

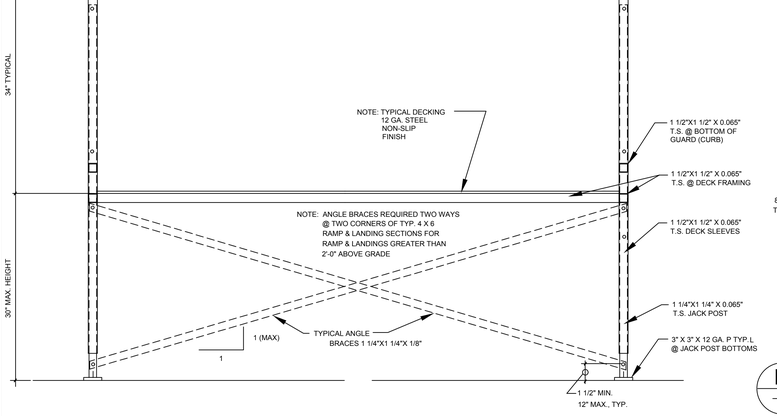
SCALE: 1" = 1'-0"



G

RAMP RAILING LAYOUT +30"

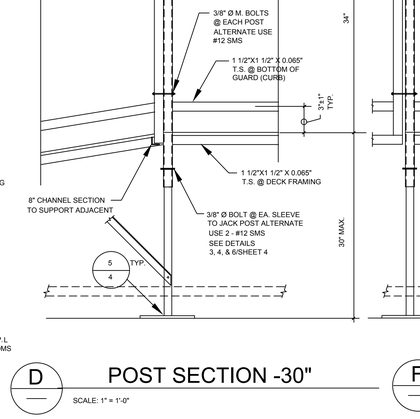
SCALE: 1" = 1'-0"



B

TYPICAL CROSS SECTIONS -30"

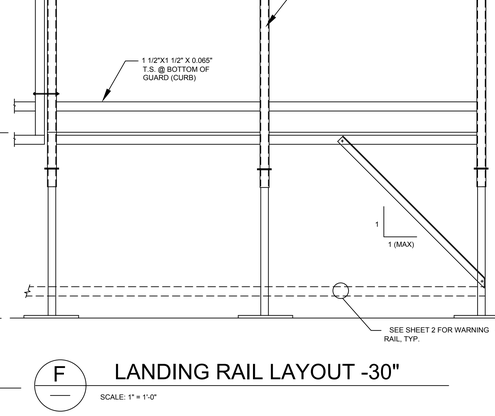
SCALE: 1" = 1'-0"



D

POST SECTION -30"

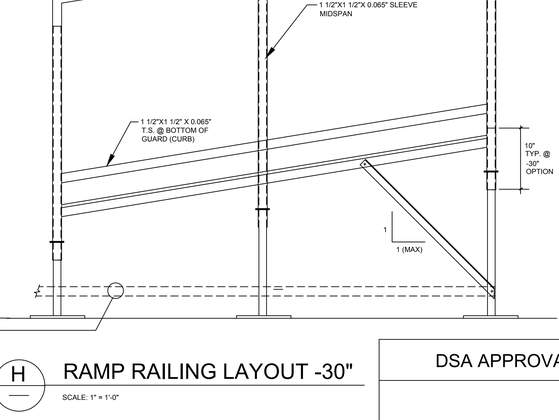
SCALE: 1" = 1'-0"



F

LANDING RAIL LAYOUT -30"

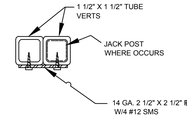
SCALE: 1" = 1'-0"



H

RAMP RAILING LAYOUT -30"

SCALE: 1" = 1'-0"



BOTTOM RAIL CONNECTION

NO SCALE

DX

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DETAILS & NOTES

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PHONE: (951)213-3900
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SITE:

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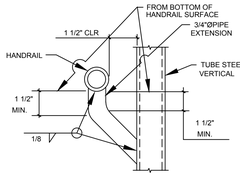
DRAWN
CHECKED
DATE
03 FEB 2020
SCALE
JOB NO.

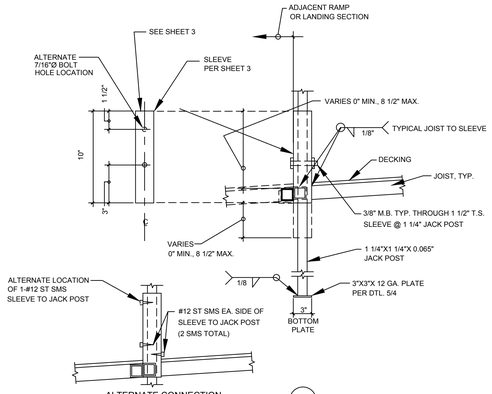
R.3

3 OF 16 SHEETS

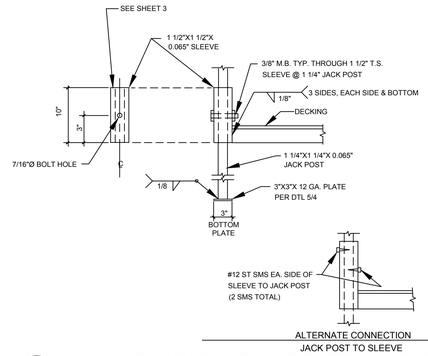
TMP DSA RAMP & LANDING STEEL SHEET 3.DWG



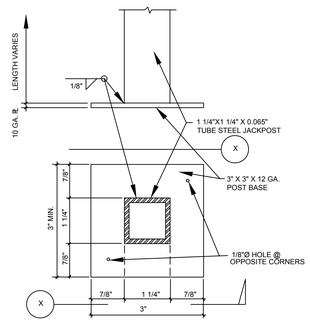
2/4 TYPICAL HANDRAIL ARMS



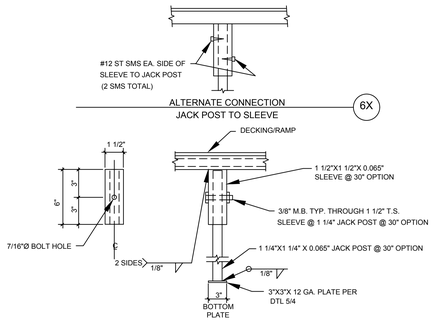
3/4 RAMP POST SLEEVES 1 1/2" T.S.



4/4 LANDING POST SLEEVES 1 1/2" T.S.

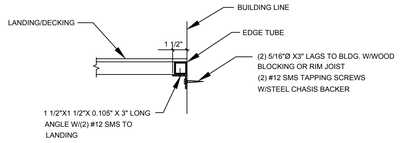


5/4 POST BASE



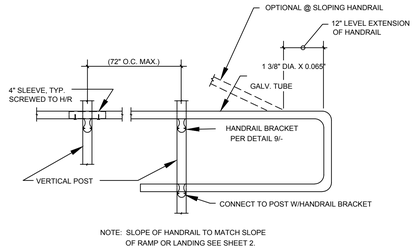
6/4 MID SPAN POST

NOTE: USE 2" X 2" X 0.12" SLEEVE AND 1 1/2"X1 1/2"X 0.065" JACK POST @ ABOVE 30" OPTION



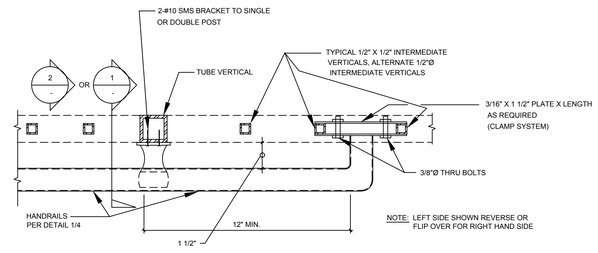
7/4 LANDING TO BUILDING

NOTE: DECK SECTIONS ARE FREE STANDING FOR VERTICAL LOADS.

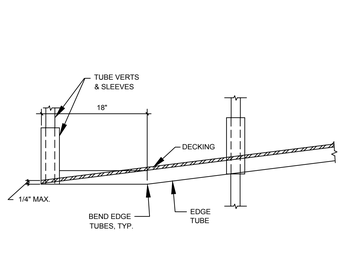


NOTE: SLOPE OF HANDRAIL TO MATCH SLOPE OF RAMP OR LANDING SEE SHEET 2.

8/4 OPTIONAL CONNECTION @ HANDRAIL DETAIL

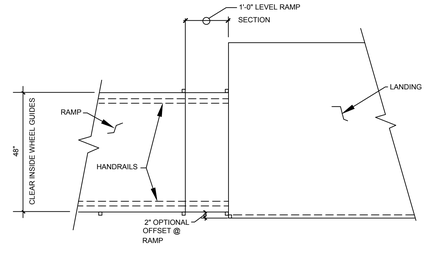


9/4 OPTIONAL HANDRAIL DETAIL @ TOP OF STAIRS OR RAMPS

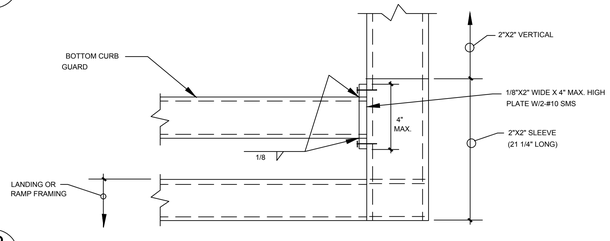


10/4 TOE @ END OF RAMP

NO SCALE



11/4 NO SCALE



12/4

NOTES:

CODES:
2019 CALIFORNIA BUILDING CODE (CBC)

DESIGN LOADS:
LIVE LOAD: 100 PSF
WIND LOAD: SEE SHEET 1
SEISMIC: SEE SHEET 1
HANDRAIL & GUARD RAIL LOADS:
50#/FT
200# POINT LOAD

MATERIAL SPECIFICATIONS:
STEEL: ALL TUBE STEEL ASTM A-1008 CS TYPE A OR B (Fy = 40 KS1)
ALL SHEET, ANGLES, PLATE ETC. TO BE A1011SS GRADE 40
ALL STEEL TO BE COATED WITH A RUST INHIBITIVE COATING
BOLTS: ASTM A307 COMMON BOLTS HOT DIPPED GALVANIZED W/ STAINLESS STEEL WASHERS
PLYWOOD OPTION: APA RATED STRUCT I EXTERIOR PLYWOOD
WELDS: ALL WELDING SHALL CONFORM TO "AMERICAN WELDING SOCIETY
D-1.3-2008 FOR SHEET STEEL.
ELECTRODES SHALL BE E70XX.

GENERAL 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" OF RISE, PER CBC 11B-405.7.

2) LOCATION OF LANDINGS.
LANDINGS SHALL BE PROVIDED AT TOP AND BOTTOM OF EACH RAMP. INTERMEDIATE LANDINGS SHALL BE PROVIDED AT INTERVALS NOT EXCEEDING 30 INCHES OF VERTICAL RISE AND AT EACH CHANGE OF DIRECTION . LANDINGS ARE NOT CONSIDERED IN DETERMINING THE MAXIMUM HORIZONTAL DISTANCE OF EACH RAMP.

NOTE: EXAMPLES OF RAMP DIMENSIONS ARE:

SLOPE	MAX. RISE (INCHES)	MAX. HORIZONTAL PROJECTION
1:12	30	30'-0"
1:16	30	40'-0"
1:20	30	50'-0"
1:15	30	37'-6"

2. SIZE OF TOP LANDINGS: TOP LANDINGS SHALL NOT BE LESS THAN 60 INCHES WIDE AND SHALL HAVE A LENGTH OF NOT LESS THAN 60 INCHES IN THE DIRECTION OF RAMP RUN, PER CBC 11B-405.7.2 AND .3.

3) DOORS IN ANY POSITION SHALL NOT REDUCE THE MINIMUM DIMENSION OF THE LANDING TO LESS THAN 42" AND SHALL NOT REDUCE THE REQUIRED WIDTH BY MORE THAN 3" WHEN FULLY OPENED, CBC 11B-405.7.5.

4) RAMPS SHALL BE CONSTRUCTED AS REQUIRED FOR STAIRWAYS.

5) THE SURFACE OF RAMPS SHALL BE ROUGHED OR SHALL BE OF SLIP-RESISTANT MATERIAL, TYP. FOR LANDINGS & STAIRS.

6) RAMPS REQUIREMENTS SHALL BE PER CBC 11B-405.

7) RAMPS AND STAIRWAYS USED AS EXIT SHALL CONFORM TO CBC SEC. 1009 SEC. 1010, CHAPTER 11B AND 11B-405.5.

8) HANDRAILS AND GUARDRAILS SHALL CONFORM TO CBC 11B-405.8 (RAMP), AND 11B-504 (STAIRS).

9) RAMPS SHALL CONFORM TO CBC 11B-405.

10) 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.

11) LANDING WIDTH. AT BOTTOM AND INTERMEDIATE LANDINGS, THE WIDTH SHALL BE AT LEAST THE SAME AS REQUIRED FOR RAMPS, CBC 11B-405.7.4.

12) THE WIDTH OF RAMPS SHALL BE AS REQUIRED PER STAIRWAYS AND EXITS, CBC 11B-405.5.

13) SLOPE RAMPS AND LANDINGS AS REQUIRED TO PREVENT ACCUMULATION OF WATER ON WALKING SURFACES.

14) ALL WORK SHALL CONFORM TO TITLE 24 CALIFORNIA CODE OF REGULATIONS (CCR).

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

16) A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF 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.

IN PLANT: SHOP WELDING INSPECTION AND MATERIAL VERIFICATION

SITE CONSTRUCTION: CLASS 4

DSA APPROVALS

STRUCTURAL ENGINEERS, INC.
4091 RIVERSIDE DRIVE, SUITE 114
CHINO, CALIFORNIA 91710

MEMBER
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JAMES T. SIMS
No.3602
STRUCTURAL
STATE OF CALIFORNIA

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DRAWN
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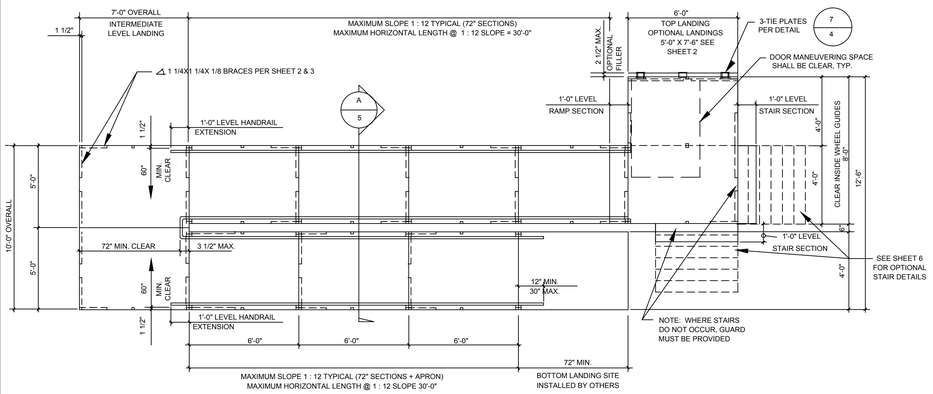
DATE 03 FEB 2020
SCALE
JOB NO.

R.4

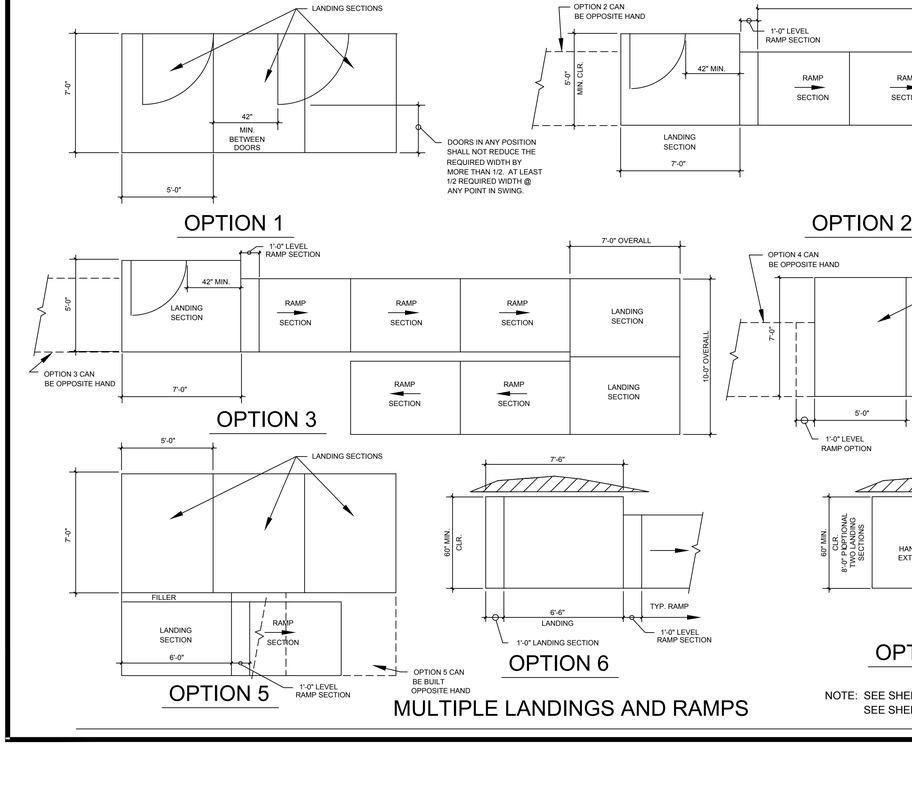
4 OF 16 SHEETS

TMP DSA RAMP & LANDING STEEL SHEET 4.DWG



TYPICAL PLAN VIEW OF ACCESSIBLE RAMP WITH SWITCH-BACK & PLATFORMS

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



TYPICAL ELEVATION OF ACCESSIBLE RAMP W/SWITCH-BACK RAMP

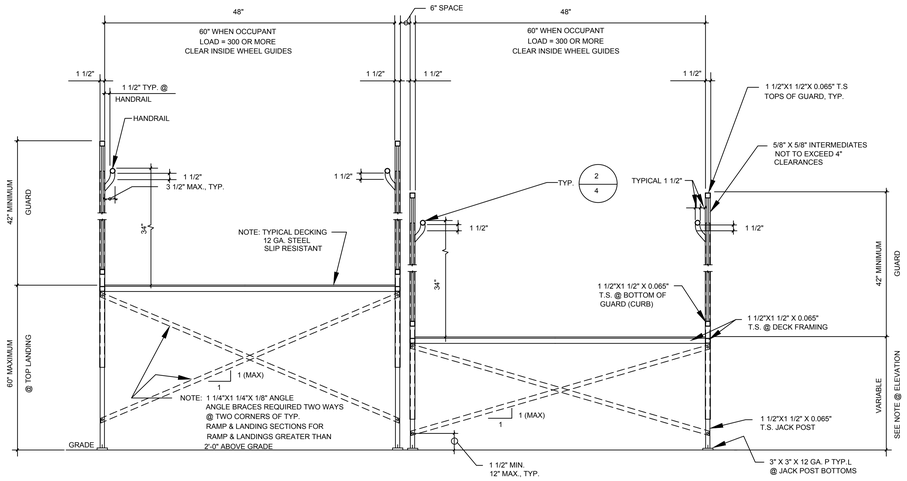
SCALE: 1/4" = 1'-0"

NOTE: SEE SHEET 3 FOR HANDRAIL/GUARDRAIL SIZES

MULTIPLE LANDINGS AND RAMPS

ADD RAMPS, STAIRS LANDINGS AS REQUIRED FOR NUMBER OF EXITS ON SITE PLAN FOR SPECIFIC PROJECTS

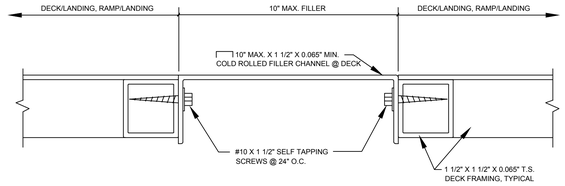
NOTE: SEE SHEET 2 FOR LANDING AND RAMP DETAILS, SEE SHEET 6 FOR TYPICAL STAIRS



A

TYPICAL CROSS SECTIONS

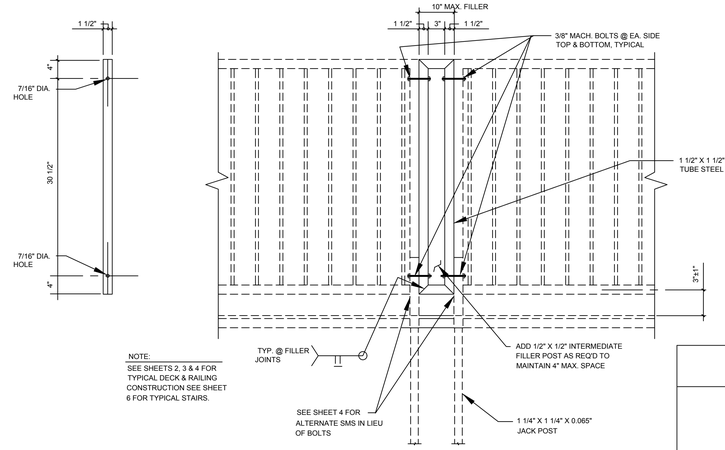
SCALE: 1/4" = 1'-0"



B

TYPICAL DECK CROSS SECTION

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



C

TYPICAL GUARDRAIL FILLER

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

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REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No.3602 STRUCTURAL STATE OF CALIFORNIA

DATE SIGNED January 7, 2021

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-119501 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 02/09/2021

ACCESSIBLE RAMP
SWITCHBACK DETAILS

TMP SERVICES
2929 KANSAS AVE.
RIVERSIDE, CA 92507
PHONE: (951)213-3900
FAX: (951)213 3997

SITE:

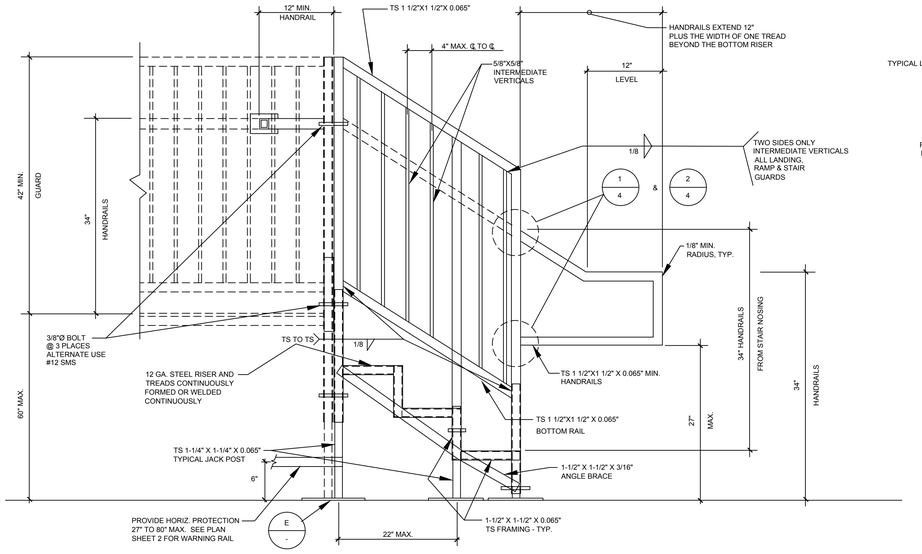
STATE OF CALIFORNIA
-2019 CBC
PC

DRAWN
CHECKED
DATE 03 FEB 2020
SCALE
JOB NO.

R.5

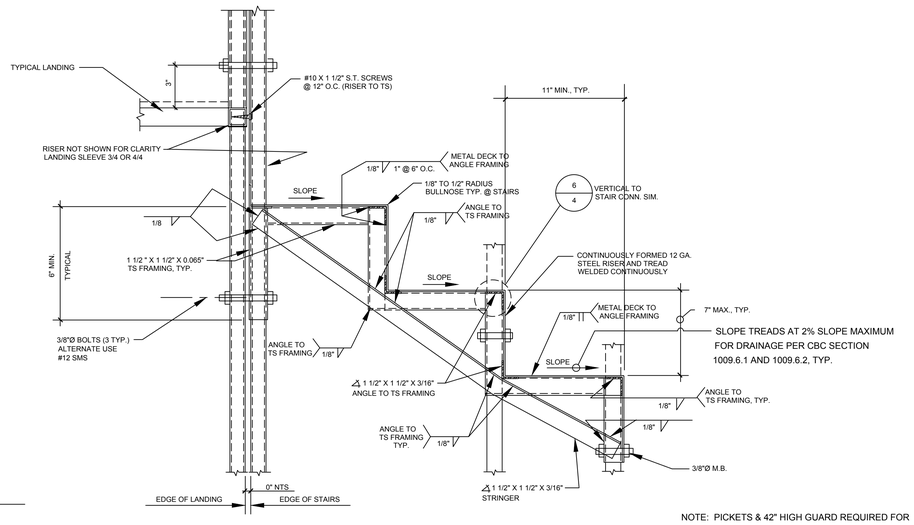
5 OF 16 SHEETS

TMP DSA\RAMP & LANDING STEEL SHEET 5.DWG



A

SIDE VIEW



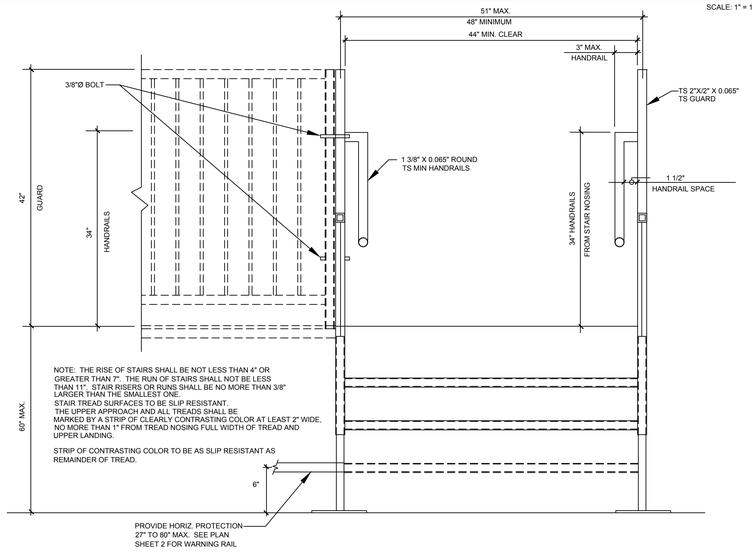
B

SECTION

NOT TO SCALE

NOTE: PICKETS & 42" HIGH GUARD REQUIRED FOR THRESHOLD HEIGHTS GREATER THAN 30" ABOVE FINISH GRADE.
FOR THRESHOLD HEIGHTS LESS THAN 30" ABOVE FINISH GRADE, PICKETS CAN BE OMITTED & HANDRAIL WILL ACT AS GUARD.

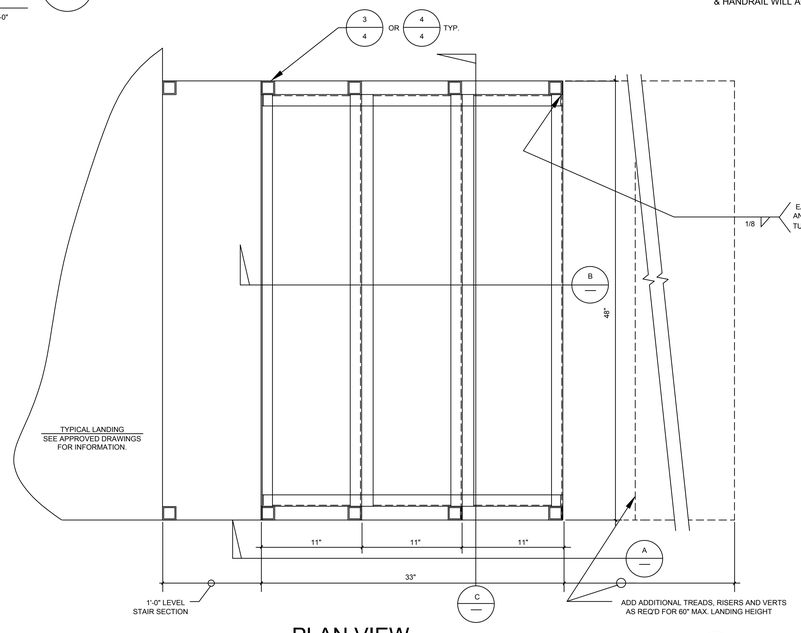
SCALE: 1" = 1'-0"



C

FRONT VIEW

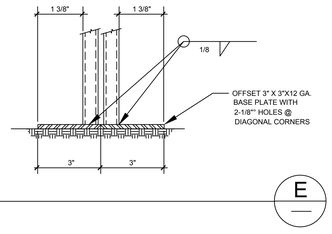
SCALE: 1" = 1'-0"



PLAN VIEW

NOT TO SCALE

D



E

PROPRIETARY DESIGN: THIS DRAWING AND THE MATERIAL CONTAINED THEREIN ARE THE PROPERTY OF TMP SERVICES, INC. AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND CONSENT OF TMP SERVICES, INC. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATED WITH TMP SERVICES, INC. SHALL BE THE PROPERTY OF TMP SERVICES, INC.

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MEMBER
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AMERICAN CONCRETE INSTITUTE
(909) 613-0234

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STAIRS OPTIONAL

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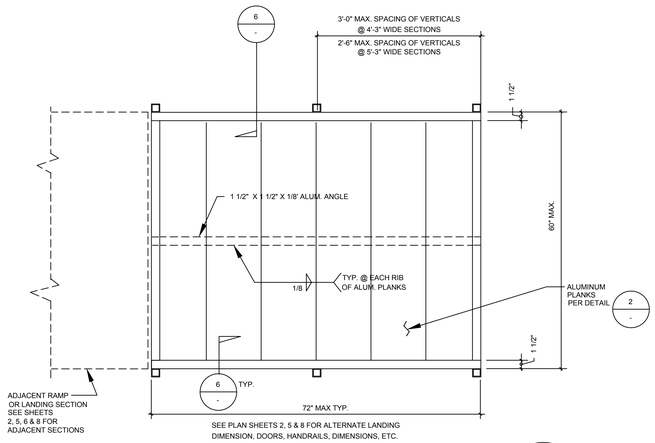
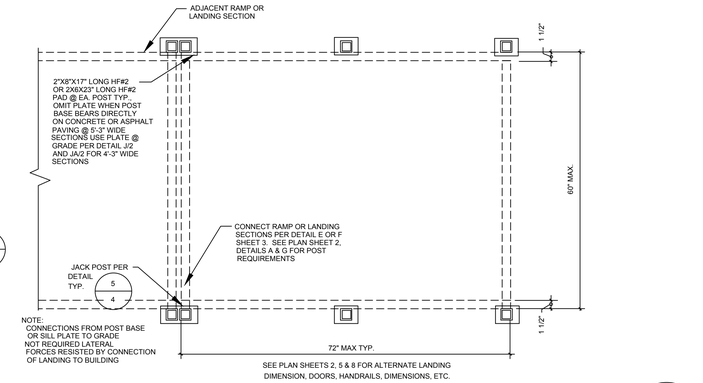
R.6

6 OF 16 SHEETS

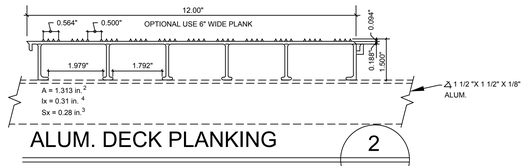
TMP DSA RAMP & LANDING STEEL SHEET 6.DWG



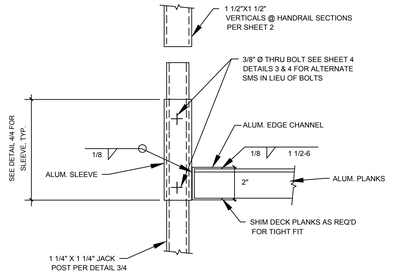
LANDING OR RAMP SECTION 1B -



FOOTINGS @ LANDING OR RAMP SECTION 1A -

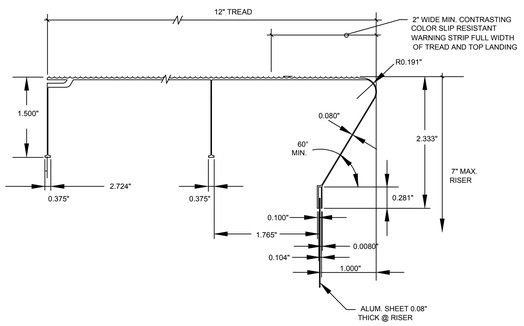


ALUM. DECK PLANKING 2 -



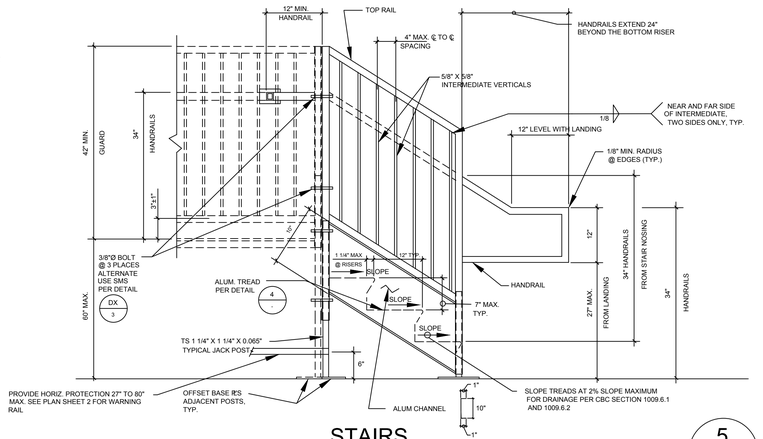
ALUM. SLEEVE DETAIL 3 -

SCALE: 3" = 1'-0"



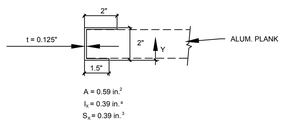
ALUM. STAIR TREAD 4 -

SCALE: 3/4" = 1"



STAIRS 5 -

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



ALUM. EDGE CHANNEL 6 -

SCALE: 3" = 1'-0"

NOTE: PICKETS & 42" HIGH GUARD REQUIRED FOR THRESHOLD HEIGHTS GREATER THAN 30" ABOVE FINISH GRADE.
FOR THRESHOLD HEIGHTS LESS THAN 30" ABOVE FINISH GRADE, PICKETS CAN BE OMITTED & HANDRAIL WILL ACT AS GUARD.

NOTES:

MATERIAL SPECIFICATIONS:
ALUMINUM:

1 1/4X 1 1/4X 1/8 ANGLE	6063 T5
2"X1 1/2"X1/8" CHANNEL	6063 T5
DECK PLANKS	6063 T5
STAIR PLANKS	6063 T5

BOLTS: ALUMINUM 6061-T6, 2024-T4 OR 7075-T73, ALTERNATE USE TYPE 304 STAINLESS STEEL BOLTS WITH STAINLESS STEEL WASHERS.

WELDS: ALL WELDING SHALL CONFORM TO "AMERICAN WELDING SOCIETY D1.2 FOR ALUMINUM", ELECTRODES SHALL BE 5356 OR 5554.

SEE SHEET 4 FOR GENERAL NOTES

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ACCESSIBLE RAMP
OPTIONAL ALUMINUM DECK

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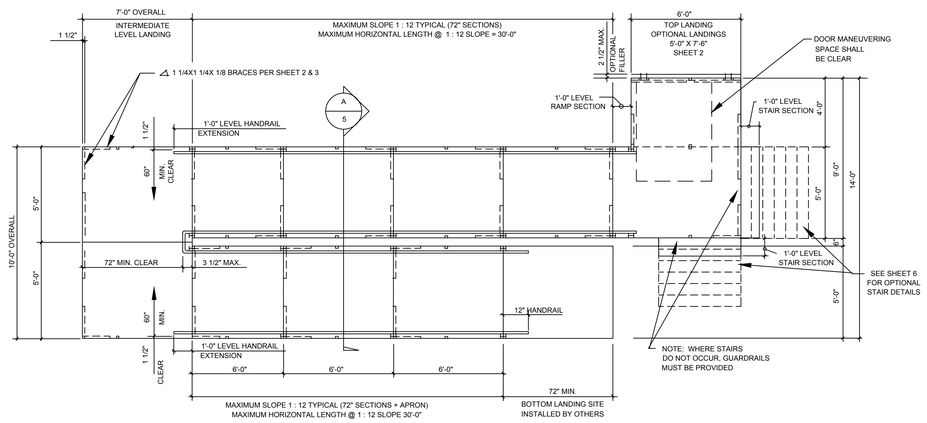
R.7

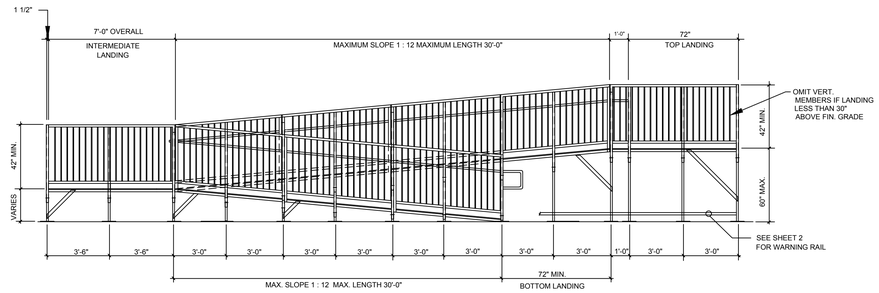
7 OF 16 SHEETS

TMP DSA RAMP & LANDING STEEL SHEET 7.DWG



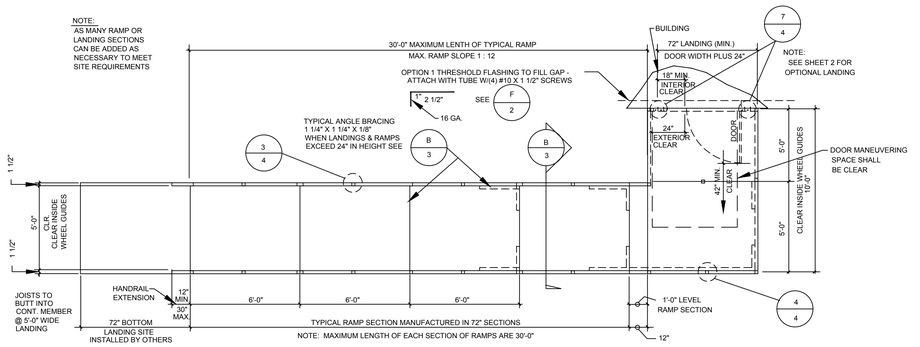
TYPICAL PLAN VIEW OF ACCESSIBLE RAMP WITH SWITCH-BACK & PLATFORMS

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



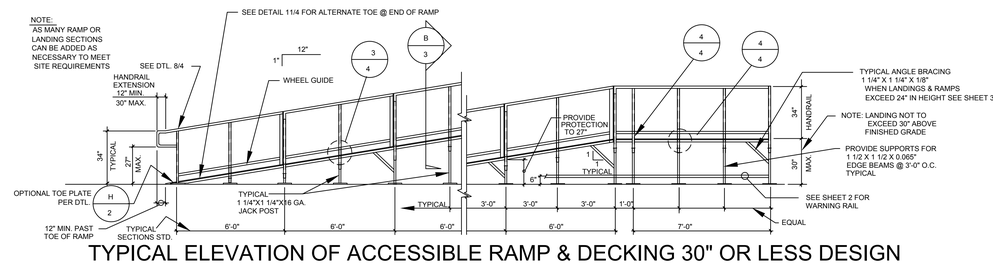
TYPICAL ELEVATION OF ACCESSIBLE RAMP W/SWITCH-BACK RAMP W/ 5'-0" WIDE RAMPS

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



TYPICAL PLAN VIEW OF ACCESSIBLE RAMP & DECK LAYOUT

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



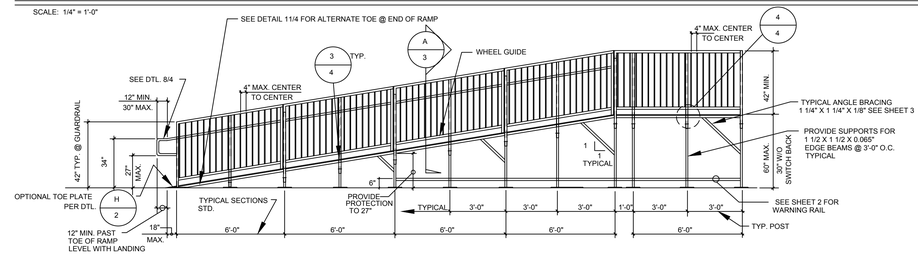
TYPICAL ELEVATION OF ACCESSIBLE RAMP & DECKING 30" OR LESS DESIGN

NOTE: SEE PLAN SHEET 3 FOR HANDRAIL SIZES

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

TYPICAL PLAN VIEW OF ACCESSIBLE RAMP & DECK LAYOUT OVER 30" DESIGN

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



TYPICAL ELEVATION OF ACCESSIBLE RAMP & DECKING

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

NOTE: SEE PLAN SHEET 3 FOR HANDRAIL/GUARDRAIL SIZES

EXL
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ACCESSIBLE RAMP ELEVATIONS & PLAN VIEWS

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DATE
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SCALE

JOB NO.

R.8

8 OF 16 SHEETS

TMP DSA RAMP & LANDING STEEL SHEET 8.DWG