EGLING MS RELOCATABLE CLASSROOMS AND HARDCOURT PAVING

813 WEBSTER STREET
COLUSA, CA

CONSTRUCTION DOCUMENTS
3/9/2016

ARCHITECTURAL NEXUS PROJECT NUMBER: 15125

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ARCH | NEXUS

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PETERS engineering
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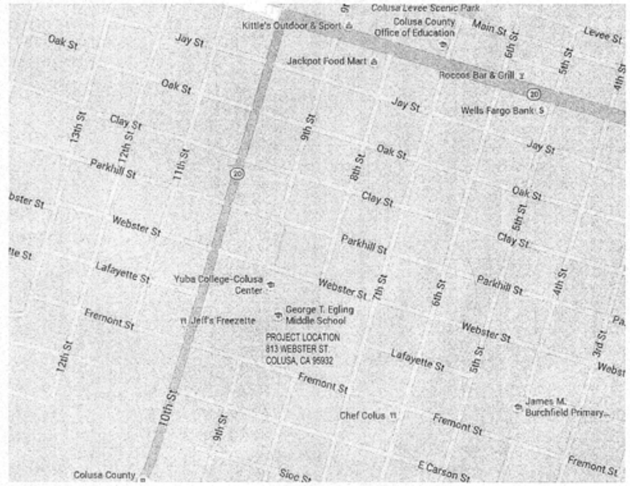
The Engineering Enterprise
Consulting Engineers

VICINITY MAP



DESIGN CRITERIA

2013 CALIFORNIA CODE OF REGULATIONS (CCR) APPLICABLE CODES EFFECTIVE JAN 1, 2014

APPLICABLE CODES

TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
TITLE 24 CCR, PART 1 - 2013 BUILDING STANDARDS ADMINISTRATIVE CODE
TITLE 24 CCR, PART 2 - 2013 CALIFORNIA BUILDING CODE, VOL. 1 & 2 (CBC) (2012 IBC, AS AMENDED BY CALIF.)
TITLE 24 CCR, PART 3 - 2013 CALIFORNIA ELECTRICAL CODE (CEC) (2011 NEC, AS AMENDED BY CALIF.)
TITLE 24 CCR, PART 4 - 2013 CALIFORNIA MECHANICAL CODE (CMC) (2012 UMC, AS AMENDED BY CALIF.)
TITLE 24 CCR, PART 5 - 2013 CALIFORNIA PLUMBING CODE (CPC) (2012 UPC, AS AMENDED BY CALIF.)
TITLE 24 CCR, PART 6 - 2013 CALIFORNIA ENERGY CODE
TITLE 24 CCR, PART 9 - 2013 CALIFORNIA FIRE CODE (CFC) (2012 IFC, AS AMENDED BY CALIF.)
TITLE 24 CCR, PART 10 - 2013 EXISTING BUILDING CODE
TITLE 24 CCR, PART 11 - 2013 CALIFORNIA GREEN BUILDING STANDARDS CODE
TITLE 24 CCR, PART 12 - 2013 CALIFORNIA REFERENCED STANDARDS (PARTIAL LIST - SEE CBC CH. 35 & CFC CH. 45)
2013 NFPA 13, INSTALLATION OF SPRINKLER SYSTEMS (CALIF. AMENDED)
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 (CALIF. AMENDED)
2013 NFPA 72, NATIONAL FIRE ALARM CODE (CALIF. AMENDED) SEE UL STD 1971 FOR "VISUAL DEVICES"

OTHER CRITERIA

COMPLIANCE WITH CALIFORNIA FIRE CODE (CFC) CHAPTER 33 - "FIRE SAFETY DURING CONSTRUCTION & DEMOLITION" IS REQUIRED IN THE COURSE OF CONSTRUCTION.

THIS PROJECT REQUIRES A PROJECT INSPECTOR WITH A CLASS 3 CERTIFICATION. PROJECT INSPECTOR SHALL VERIFY DSA-6 FROM INPLANT INSPECTOR PRIOR TO SHIPPING FROM STOCKPILE 02-113961.

IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCES WITH TITLE 24, CCR, AS CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(c), PART 1, TITLE 24 CCR)

SCOPE OF WORK

- ACCESSIBILITY UPGRADES FOR STUDENT & STAFF RESTROOMS IN BUILDING 100
- REPLACE HARDCOURT
- PROVIDE TWO NEW RELOCATABLE CLASSROOMS
- SITE PAVING UPGRADES & PATH OF TRAVEL UPGRADES

STATEMENT OF GENERAL CONFORMANCE

FOR ARCHITECTS/ ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND / OR CONSULTANTS.

(APPLICATION NO. 02-114730 / FILE NO. 6-9)

[X] THE DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET

[X] THIS DRAWING, PAGE SPECIFICATIONS/ CALCULATIONS

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

1) DESIGN INTENT AND APPEARS TO ME 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 SECTION 4-336, 4-341 AND 4-344" OF TITLE 24, PART 1. (TITLE 24, PART 1, SECTION 4-317 (b))

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

[X] IS/ ARE IN GENERAL CONFORMANCE AND
[X] HAVE BEEN COORDINATED

ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE

JOSEPH N. YEE
PRINT NAME

SIGNATURE ______ 030916 DATE ______ C-10175 LICENSE NUMBER ______ 09-30-17 EXPIRATION DATE

SCHEDULE OF DRAWINGS

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CONSTRUCTION DOCUMENTS
3/9/2016
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COLUSA UNIFIED SCHOOL DISTRICT
EGLING MS RELOCATABLE CLASSROOMS AND HARDCOURT PAVING
813 WEBSTER STREET
COLUSA, CA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

PROJECT TRACKING NUMBER	APPLICATION NUMBER	FILE NUMBER
61598-009	02-114730	6-9

AC MT FLS [illegible] SS [illegible]
DATE 3-9-16

G001

1 2 3 4 5

D

C

B

A

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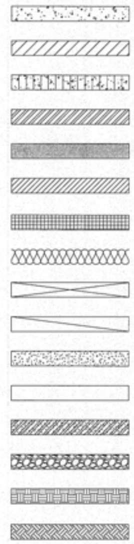
LIST OF ABBREVIATIONS

A	
A/C	AIR CONDITIONING
AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALUM	ALUMINUM
ANOD	ANODIZED
ARCH	ARCHITECT
@	AT
B	
BD	BOARD
BLDG	BUILDING
BO	BOTTOM OF
C	
C	CELSIUS
CH	COAT HOOK
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CG	CORNER GUARD
CI	CONTINUOUS INSULATION
CJ	CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLO	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
CORR	CORRIDOR
CT	CERAMIC TILE
CTJ	CONSTRUCTION JOINT
CUH	CABINET UNIT HEATER
D	
D	DEEP
DEG	DEGREE
DEMO	DEMOLITION
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DS	DOWNSPOUT
DWGS	DRAWINGS
E	
EA	EACH
EJ	EXPANSION JOINT
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EOS	EDGE OF SLAB
ERD	EXISTING ROOF DRAIN
EQ	EQUAL
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXP	EXPOSED
EXT	EXTERIOR
F	
F	FAHRENHEIT
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FDC	FIRE DEPARTMENT CONNECTION
FD	FLOOR DRAIN
FEC	FIRE EXTINGUISHER CABINET
FE	FIRE EXTINGUISHER
FG	FINISH GRADE
FHC	FIRE HOSE CABINET
FIN	FINISH
FLR	FLOOR
FND	FOUNDATION
FO	FINISHED OPENING
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FOW	FACE OF WALL
FRG	FIBER REINFORCED GYPSUM
FSP	FIRE STANDPIPE
FT	FEET
FV	FIELD VERIFY
G	
GA	GAUGE
GALV	GALVANIZED
GFRC	GLASS-FIBER-REINFORCED CONCRETE
GFRG	GLASS-FIBER-REINFORCED GYPSUM
GL	GLASS
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
H	
H	HIGH
HB	HOSE BIBB
HDR	HEADER
HM	HOLLOW METAL
HPT	HIGH POINT
HR	HOUR
HT	HEIGHT
I	
ID	INSIDE DIAMETER; INSIDE DIMENSION
IN	INCH
INFO	INFORMATION
INT	INTERIOR
J	
JAN	JANITOR
K	(NOT USED)
L	
LAB	LABORATORY
LAV	LAVATORY
LBS	POUNDS
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LPT	LOW POINT
M	
MACH RM	MACHINE ROOM
MAX	MAXIMUM
MFR	MANUFACTURER
MECH	MECHANICAL
MEZZ	MEZZANINE
MIN	MINIMUM
MO	MASONRY OPENING
N	
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
O	
OC	ON CENTER
OD	OUTSIDE DIAMETER; OUTSIDE DIMENSION
OFD	OVERFLOW DRAIN
OH DR	OVERHEAD DOOR
OPH	OPPOSITE HAND
OPP	OPPOSITE
ORIG	ORIGINAL
P	
P LAM	PLASTIC LAMINATE
PLAS	PLASTER
PLUMB	PLUMBING
PR	PAIR
PSI	POUNDS PER SQUARE INCH
PSF	POUNDS PER SQUARE FOOT
PVC	POLYVINYL CHLORIDE
Q	
QT	QUARRY TILE
R	
R	RISER OR RADIUS
RAD	RADIUS
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REF	REFRIDGERATOR
REQD	REQUIRED
REV	REVISION
RH	RELATIVE HUMIDITY
RM	ROOM
RO	ROUGH OPENING
RTU	ROOF TOP UNIT
RWL	RAIN WATER LEADER
S	
S	SMOKE DETECTOR
SAM	SELF ADHESIVE MEMBRANE
SCHED	SCHEDULE
SECT	SECTION
SIM	SIMILAR
SPEC	SPECIFICATION
SS	STAINLESS STEEL
STD	STANDARD
STRUCT	STRUCTURAL
T	
T	TREAD
TEL	TELEPHONE
TEMP	TEMPORARY
THK	THICK
TOC	TOP OF CONCRETE
TOM	TOP OF MASONRY
TOP	TOP OF PARAPET
TOS	TOP OF SLAB; TOP OF STEEL
TOW	TOP OF WALL
TYP	TYPICAL
TO	TOP OF
U	
UL	UNDERWRITER'S LABORATORIES
UNO	UNLESS NOTED OTHERWISE
V	
VCT	VINYL COMPOSITE TILE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
W	
W/	WITH
W/O	WITHOUT
WD	WOOD
WH	WALL HYDRANT
WP	WORKING POINT
WRB	WEATHER RESISTIVE BARRIER
X,Y,Z	(NOT USED)

THE PRECEDING LIST OF ABBREVIATIONS IS PRESENTED AS A GENERAL GUIDE AND DOES NOT NECESSARILY SHOW ALL ABBREVIATIONS USED. OTHER GENERALLY ACCEPTED ABBREVIATIONS MAY BE FOUND AMONG THE DRAWINGS - SOME ABBREVIATIONS SHOWN ABOVE MAY NOT BE USED WITHIN THIS DRAWING SET.

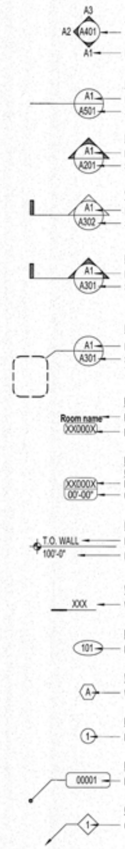
HATCH LEGEND

NOTE: HATCHING ANGLES MAY VARY DUE TO ANGLE OF WALL DRAWN, WHILE HATCHING PATTERN REMAINS SIMILAR.



- CAST-IN-PLACE CONCRETE
- CONCRETE MASONRY UNIT
- PRECAST CONCRETE / GLASS FIBER REINFORCED CONCRETE (GFRC)
- STEEL STUDS
- WOOD STUDS
- BRICK VENEER
- RIGID INSULATION
- BATT INSULATION
- CONTINUOUS MATERIAL
- NON CONTINUOUS MATERIAL (BLOCKING)
- GYPSUM BOARD
- PLYWOOD
- EXTERIOR SHEATHING
- GRAVEL
- UNDISTURBED EARTH
- BACKFILL OR FILL

DRAWING SYMBOL LEGEND



INTERIOR ELEVATIONS
SHEET NUMBER
DETAIL NUMBER

DETAIL REFERENCE
DETAIL NUMBER
SHEET NUMBER

EXTERIOR ELEVATION REFERENCE
DETAIL NUMBER
SHEET NUMBER

WALL SECTION REFERENCE
DETAIL NUMBER
SHEET NUMBER

BUILDING SECTION REFERENCE
DETAIL NUMBER
SHEET NUMBER

DETAIL REFERENCE
DETAIL NUMBER
SHEET NUMBER

ROOM DESIGNATION (FLOOR PLAN)
ROOM NAME
ROOM NUMBER

ROOM DESIGNATION (REFLECTED CEILING PLAN)
ROOM NUMBER
CEILING HEIGHT ABOVE FINISH FLOOR

ELEVATION SYMBOL
ELEVATION DESCRIPTION
ELEVATION ABOVE DATUM

WALL TYPE DESIGNATION
WALL TYPE

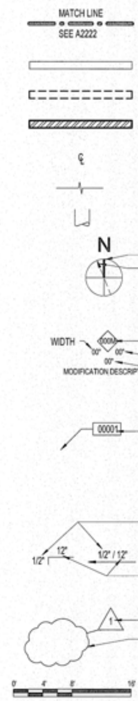
DOOR DESIGNATION
DOOR NUMBER

WINDOW DESIGNATION
WINDOW TYPE

KEYED NOTE DESIGNATION
KEY NOTE NUMBER

EQUIPMENT DESIGNATION
EQUIPMENT NUMBER

GLASS TYPE DESIGNATION
GLASS TYPE



MATCH LINE TAG

EXISTING WALL TO REMAIN

WALL TO BE DEMOLISHED

NEW WALL

CENTER LINE SYMBOL

BREAK LINE

ROUND BREAK LINE

NORTH ARROW
PLAN NORTH
TRUE NORTH

CASEWORK TYPE DESIGNATION
AWS STANDARD CDS NUMBERING SYSTEM
CDS NUMBER (M DENOTES MODIFICATION - SEE SHEET A551 FOR MODIFIED MILLWORK ELEVATIONS AND DETAILS)

MATERIAL TYPE DESIGNATION
SEE AI601 FINISH LEGEND
FINISH NUMBER

SLOPE INDICATION
RISE
RUN

REVISION DESIGNATION
REVISION NUMBER
REVISION CLOUD

GRAPHIC SCALES

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LICENSED ARCHITECT
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AC MJ FLS [illegible] SS [illegible]
DATE 3-9-16

#	Date	Revision

CONSTRUCTION DOCUMENTS

NEXUS PROJECT #: 15125
CHECKED BY:
DRAWN BY: DS
DATE: 3/9/2016

GENERAL INFORMATION

G002

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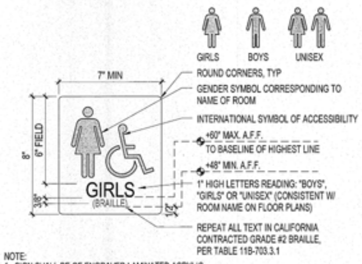
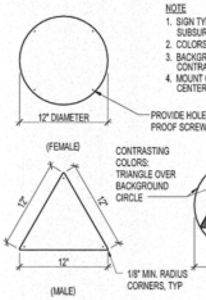


NOTE:
1. SIGN SHALL BE OF ENGRAVED LAMINATED ACRYLIC
2. MOUNT SIGN AT LATCH SIDE OF DOOR CENTERED WITHIN 18" OF OPENING PER C1/GOO3

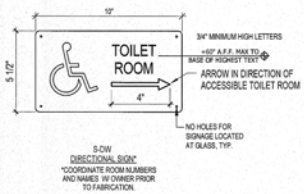
D1 TOILET ROOM IDENTIFICATION SIGN, S-TRW
G003 3" = 1'-0"

NOTE
1. SIGN TYPE IS ACRYLIC WITH SUBSURFACE COLOR.
2. COLORS AS SELECTED BY ARCHITECT.
3. BACKGROUND COLOR OF SIGN SHALL CONTRAST WITH DOOR COLOR.
4. MOUNT ON DOOR AT +5'-0" A.F.F. TO CENTERLINE OF SIGN.



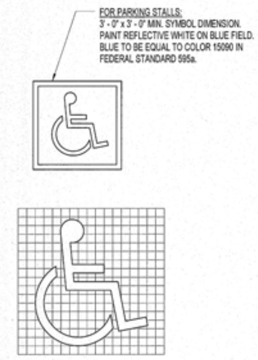
D2 TOILET ROOM DOOR SYMBOL, S-TRD
G003 1 1/2" = 1'-0"

TYPICAL NOTES :
1. SIGNS SHALL BE OF ENGRAVED LAMINATED ACRYLIC WITH RADIUSED CORNERS.
2. ATTACH SIGNS WITH (4) TAMPER PROOF FASTENERS AND ADHESIVE



S-DW
DIRECTIONAL SIGN*
*COORDINATE ROOM NUMBERS AND NAMES W/ OWNER PRIOR TO FABRICATION.

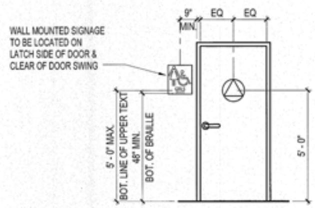
D4 DIRECTIONAL SIGNAGE
G003 3" = 1'-0"



NOTES:

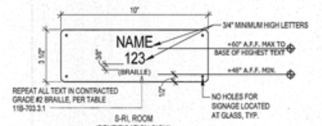
INCLUDE INTERNATIONAL SYMBOL OF ACCESSIBLITY AT ALL SIGNAGE ALONG ACCESSBILE PATH OF TRAVEL INCLUDING ACCESSIBLE PARKING SIGNAGE

C5 SYMBLOL OF ACCESSIBLITY
G003 1/2" = 1'-0"



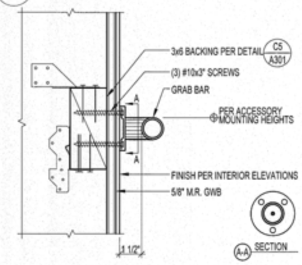
C1 SIGNAGE MOUNTING
G003 3/8" = 1'-0"

TYPICAL NOTES :
1. SIGNS SHALL BE OF ENGRAVED LAMINATED ACRYLIC WITH RADIUSED CORNERS.
2. ATTACH EXTERIOR SIGNS WITH (4) TAMPER PROOF FASTENERS AND ADHESIVE AT EXTERIOR CONDITION, UNLESS MOUNTED ON GLASS.
3. ADHESIVE FOR MOUNTING ON GLASS SHALL BE TRANSPARENT AND COVER THE ENTIRE BACK SIDE OF SIGN. VISUAL INSTALLATION IS SUBJECT TO INSPECTION AND ACCEPTANCE FROM ARCHITECT

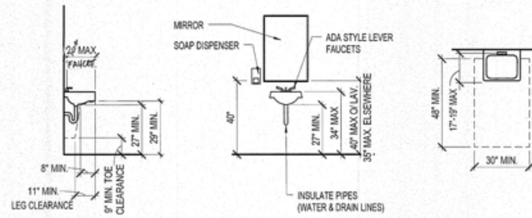


S-RI, ROOM
IDENTIFICATION SIGN*
*COORDINATE ROOM NUMBERS AND NAMES W/ OWNER PRIOR TO FABRICATION.

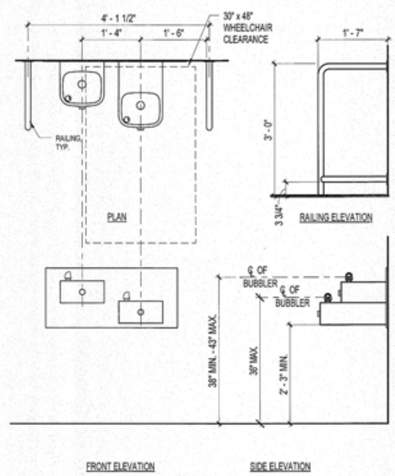
C2 ROOM IDENTIFICATION SIGNS
G003 3" = 1'-0"



C4 GRAB BAR ANCHORAGE
G003 3" = 1'-0"

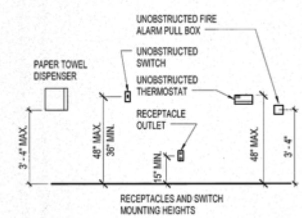


B1 ACCESSIBLE LAVATORY DETAIL
G003 3/8" = 1'-0"

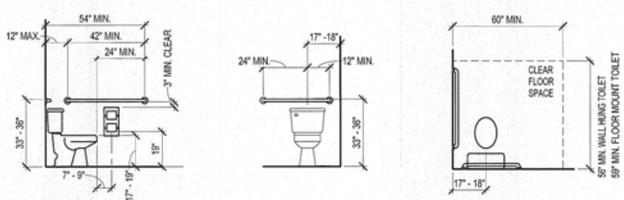


NOTES:
1. GC TO VERIFY OF FRAME/PANEL SIZE FOR WALL OPENING
2. ATTACH RAILING TO WALL SIMILAR TO DETAIL C4/G003
3. PROVIDE FOOTING AT RAILING SIMILAR TO DETAIL D4/AS102

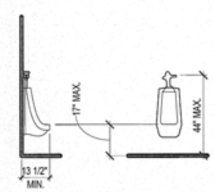
A4 DRINKING FOUNTAIN HI-LO
G003 3/4" = 1'-0"



B5 MISC. MOUNTING HEIGHTS
G003 3/8" = 1'-0"



A1 ACCESSIBLE TOILET DETAIL
G003 3/8" = 1'-0"



A5 URINAL MOUNTING HEIGHT
G003 3/8" = 1'-0"

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NEXUS PROJECT #: 15125
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ACCESSIBILITY COMPLIANCE

G003

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KEYNOTE LEGEND

100	REMOVE (E) DOUBLE SWING GATE & POST. CORNER FENCE POST TO REMAIN.
101	REMOVE (E) SINGLE LEAF GATE AND POST AT HINGE SIDE. REMOVE (E) ADJACENT FENCE PANEL & POST.
200	EXTENT OF (N) AC PAVING.
201	(N) CONCRETE WALK, MEET FLUSH WITH (E) CONCRETE WALK
202	(N) RELOCATED CLASSROOM, BUILDING BY OWNER, CONTRACTOR RESPONSIBLE FOR BUILDING PAD, ELECTRICAL & SIGNAL CONNECTIONS
203	FUTURE RELOCATABLE CLASSROOM
204	NEW 20' DOUBLE SWING VEHICLE ACCESS GATE, SEE D3/AS201
205	NEW CONCRETE WALK
206	PROVIDE SLEEVE THROUGH WALK, SEE CIVIL DRAWINGS
208	NEW 3'- 0"PEDESTRIAN GATE WITH BUTTERFLY LATCH, SEE DETAIL C3/AS201. MOUNT GATE ONTO (E) POST AT BUILDING CORNER.
210	INSTALL (E) BASKETBALL STANDARDS PER DETAIL B4/AS201, TYP.
211	INSTALL (E) TETHERBALL STANDARDS PER DETAIL A2/AS201
212	INSTALL (E) VOLLEYBALL STANDARDS PER DETAIL B2/AS201
213	MEET CONCRETE FLUSH WITH BOTTOM OF RAMP. RAMP SLOPE NOT TO EXCEED 1:12
214	BASKETBALL COURT STRIPING LAYOUT 1, SEE DETAIL D2/AS201
215	BASKETBALL COURT STRIPING LAYOUT 2, SEE DETAIL D2/AS201
216	BASKETBALL COURT STRIPING LAYOUT 3, SEE DETAIL D2/AS201
217	BASKETBALL COURT STRIPING LAYOUT 4, SEE DETAIL D2/AS201
218	BASKETBALL COURT STRIPING LAYOUT 5, DIMENSIONS ARE HALF-COURT OF LAYOUT 4.
219	VOLLEYBALL COURT STRIPING PER DETAIL C2/AS201
220	CONTRACTOR TO ADJUST EXISTING IRRIGATION AND REPAIR DAMAGED TURF AS REQUIRED BY INSTALLATION OF NEW PAVING
221	ALIGN PAVING WITH EDGE OF (E) CONCRETE PAD AT TABLE, TYP.
S-RI	SIGN, ROOM IDENTIFICATION; SEE DETAIL C2/G003

ACCESSIBLE PATH OF TRAVEL

THE ARCHITECT HAS INSPECTED/SURVEYED THE PATH OF TRAVEL AND TO TO THE BEST OF THE KNOWLEDGE OF THE DISTRICT, THE PATH OF TRAVEL (P.O.T.) INDICATED IS A BARRIER FREE ACCESS PATH CONFORMING TO THE FOLLOWING:

1. THERE ARE NO ABRUPT VERTICAL CHANGES EXCEEDING 1/4" IN HEIGHT EXCEPT FOR SLOPED CHANGES, MAXIMUM 1 VERTICAL TO 2 HORIZONTAL, NOT EXCEEDING 1/2" IN HEIGHT. THERE IS NO DROP OFF OVER 4" HIGH AT THE EDGE OF ANY P.O.T.
2. THE P.O.T. IS A MINIMUM 48" WIDE SLIP RESISTANT CONTINUOUS COMMON SURFACE WITH A 5% MAXIMUM SLOPE IN THE DIRECTION OF TRAVEL AND A MAXIMUM 2% SLOPE CROSS SLOPE. A LEVEL AREA AT LEAST 5' IN LENGTH SHALL OCCUR WITHIN A CONTINUOUS GRADIENT EXCEEDING 400'.
3. A P.O.T. LESS THAN 5' WIDE AND LONGER THAN 200' REQUIRES A 60"x60" PASSING SPACE WITHIN IT.
4. THE P.O.T. SHALL BE FREE OF OVERHANGING OBSTRUCTIONS TO +80" ABOVE THE WALKING SURFACE. THE P.O.T. SHALL ALSO BE FREE OF OBJECTS THAT PROJECT GREATER THAN 4" FROM A WALL BETWEEN +27" AND +80" ABOVE THE WALKING SURFACE.

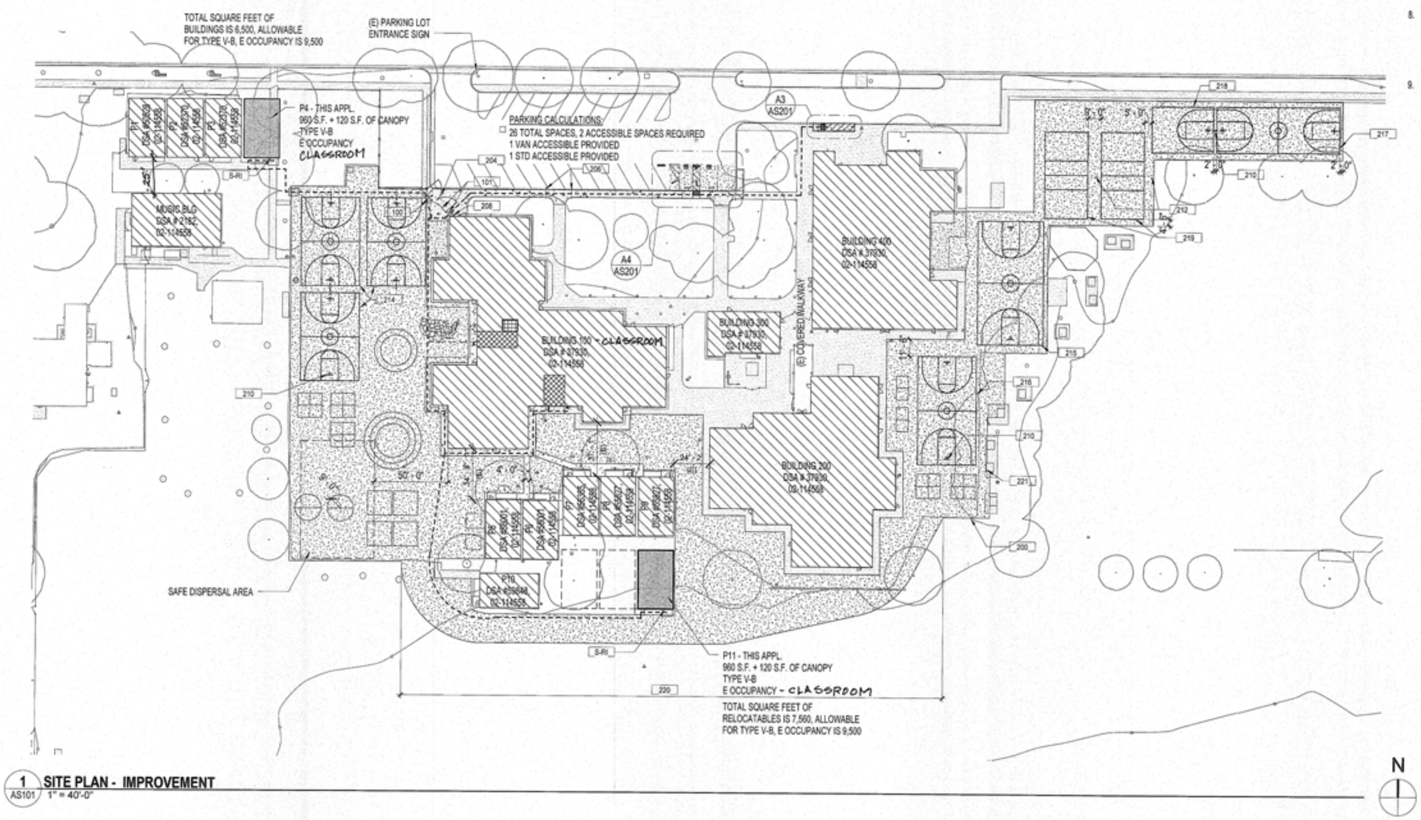
IF THE CONTRACTOR DISCOVERS ANY CONDITIONS CONTRARY TO THE ABOVE THAT ARE NOT ALREADY IDENTIFIES IN THESE DOCUMENTS FOR CORRECTION, THE CONTRACTOR SHALL BRING THOSE CONDITIONS TO THE ATTENTION OF THE ARCHITECT FOR REPAIR AS AN UNFORESEEN CONDITION, AND SHALL BE SUBMITTED TO DSA FOR CODE COMPLIANCE REVIEW AND APPROVAL.

LEGEND

- NEW BUILDING
- EXISTING BUILDING
- NEW CONCRETE PAVING
- NEW AC PAVING, SEE CIVIL DRAWINGS
- STUDENT RESTROOMS TO BE UPGRADED PER THIS APPLICATION
- STAFF RESTROOM TO BE UPGRADED PER THIS APPLICATION

GENERAL NOTE - SITE PLAN

1. WHERE NEW PAVING JOINS TO EXISTING PAVING, THE TRANSITION SHALL BE FLUSH.
2. CAMPUS, HARDCOURT AND PARKING OUTSIDE OF CONSTRUCTION AREA SHALL REMAIN ACCESSIBLE TO STUDENTS, STAFF AND PARENTS.
3. SLOPE CONCRETE WALKS AWAY FROM BUILDINGS A MAX. OF 1/4" PER FT. SLOPE AT LANDINGS MUST NOT EXCEED 1/4" PER FT IN ANY DIRECTION. SLOPE MOW STRIPS OR GRADE AWAY FROM BUILDINGS A MIN. OF 1/4" PER FOOT.
4. SEE CIVIL, PLUMBING AND ELECTRICAL PLANS FOR UTILITY CONSTRUCTION.
5. SEE CIVIL DRAWINGS FOR LOCATION AND ELEVATION OF ALL EXISTING UTILITIES AND TOPOGRAPHICAL FEATURES AND FIELD VERIFY PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR VARIATIONS FROM THE PLAN.
6. PROTECT ALL TREES & LANDSCAPE AREAS THAT ARE TO REMAIN DURING CONSTRUCTION.
7. SEE CIVIL SHEETS FOR EROSION CONTROL PROCEDURES PRIOR TO START OF SITE DEMOLITION AND EXCAVATION.
8. "NO PARKING-FIRE LANE" SIGNS AND/OR RED PAINTED CURBS SHALL BE INSTALLED AS PER SACRAMENTO FD GUIDELINE. ALL RAISED CURBS IN "NO PARKING" AREAS SHALL BE PAINTED RED WITH ACCEPTABLE RED CURB PAINT. LETTERING SHALL BE 3" HIGH, WHITE AND HAVE A 3/4" STROKE. MARKING TO BLOCATED EVERY 50 FEET.
9. SIDEWALK SHALL HAVE WEAKENED PLANE CONTROL JOINTS SPACE AT 10'-0" MAXIMUM AND EXPANSION MATERIAL AT 20'-0" MAXIMUM.



1 SITE PLAN - IMPROVEMENT
AS101 1" = 40'-0"

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LICENSED ARCHITECT JOSEPH M. YEE C-10175 STATE OF CALIFORNIA

COLUSA UNIFIED SCHOOL DISTRICT
EGLING MS RELOCATABLE CLASSROOMS AND HARDCOURT PAVING

813 WEBSTER STREET
COLUSA, CA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
61598-009 | 02-114730 | 6-9
AC MT FLS SS
DATE 3-9-16

#	Date	Revision

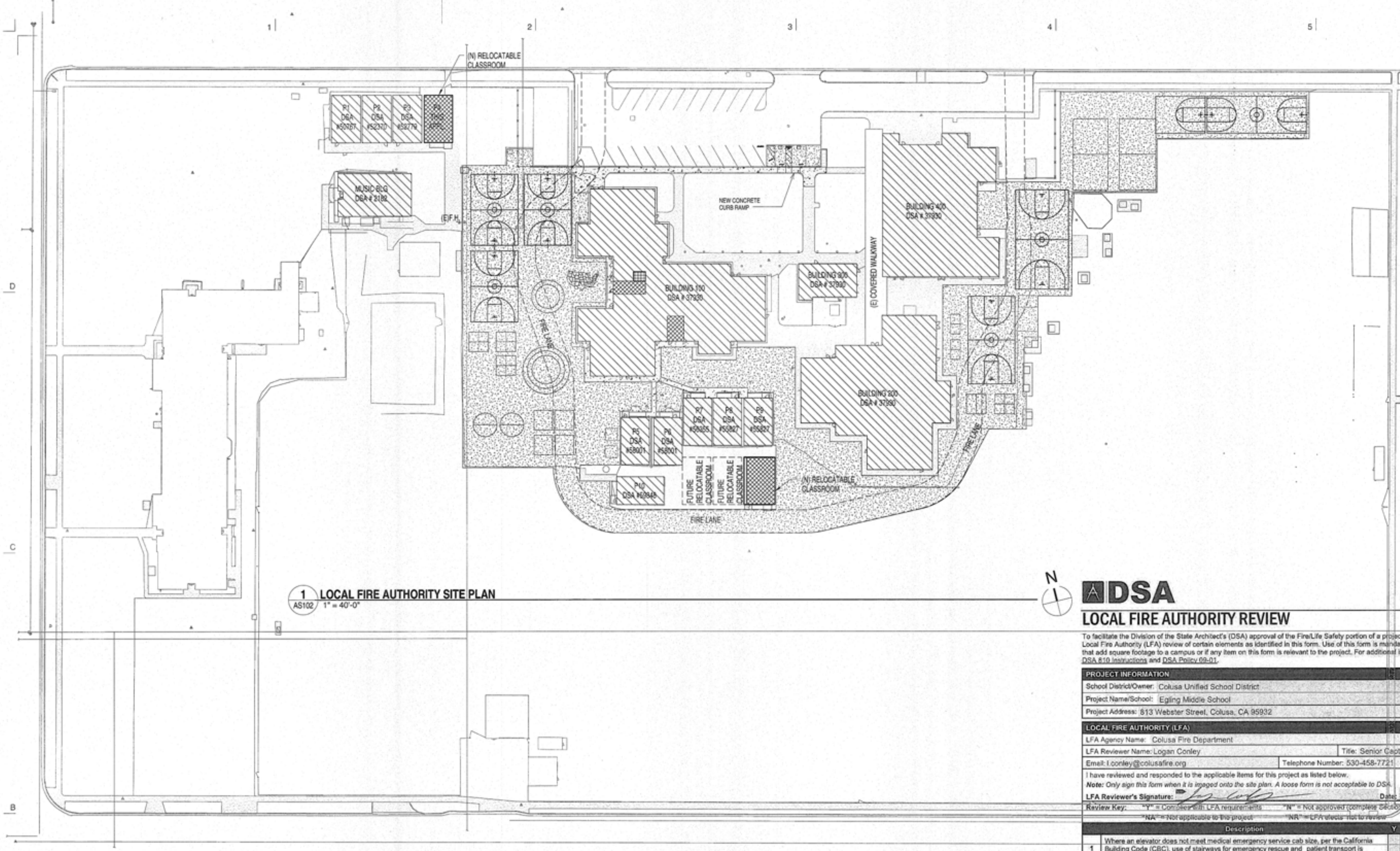
CONSTRUCTION DOCUMENTS

NEXUS PROJECT #: 15125
CHECKED BY:
DRAWN BY: DS
DATE: 3/9/2016

ARCHITECTURAL SITE PLAN

AS101

3/7/2016 1:25:10 PM



1 LOCAL FIRE AUTHORITY SITE PLAN
AS102 1" = 40'-0"

DSA 810

LOCAL FIRE AUTHORITY REVIEW

To facilitate the Division of the State Architect's (DSA) approval of the Fire/Life Safety portion of a project, DSA requires Local Fire Authority (LFA) review of certain elements as identified in this form. Use of this form is mandatory for projects that add square footage to a campus or if any item on this form is relevant to the project. For additional information, see DSA 810 Instructions and DSA Policy 09-01.

PROJECT INFORMATION	
School District/Owner:	Colusa Unified School District
Project Name/School:	Egling Middle School
Project Address:	813 Webster Street, Colusa, CA 95932

LOCAL FIRE AUTHORITY (LFA)			
LFA Agency Name:	Colusa Fire Department		
LFA Reviewer Name:	Logan Conley	Title:	Senior Captain
Email:	l.conley@colusafire.org	Telephone Number:	530-458-7721

I have reviewed and responded to the applicable items for this project as listed below.
Note: Only sign this form when it is imaged onto the site plan. A loose form is not acceptable to DSA.

LFA Reviewer's Signature: [signature] Date: 11-03-15

Review Key: "Y" = Complies with LFA requirements "N" = Not approved (complete Section 8)
"NA" = Not applicable to the project "NR" = LFA elects not to review

	Description	Y	N	NA	NR
1	Where an elevator does not meet medical emergency service cab size, per the California Building Code (CBC), use of stairways for emergency rescue and patient transport is acceptable.			X	
2	Access roads, fire lane markings, pavers and gate entrances are in accordance with Title 19, California Code of Regulations and the California Fire Code, Chapter 5.	X			
3	Fire hydrant location and distribution complies with the California Fire Code (or see # 4).	X			
4	Fire hydrant location and distribution complies with NFPA 1142, "Alternate Means." If "NR" is checked, DSA can only approve on-site water storage as an alternate. The signature of the school district official is required to acknowledge the use of alternate means. **Signature of School District Official:** [signature] Date: 2/22/16 **Print the School District Official's Name:** Dwayne Newman				
5	The location(s) of the proposed post indicator valve and fire department connection meet the requirements of this jurisdiction.			X	
6	The location(s) of the detector check valve assembly meet the requirements of this jurisdiction.			X	
7	Is the project located in a hazard severity zone area? (CBC, Chapter 7A, Section 701A.) ☐ Yes ☒ No. Check type if "Yes": ☐ Moderate ☐ High ☐ Very High ☐ WIFA (If one of these boxes is checked, the project design must meet the requirements of Chapter 7A.)				
8	COMMENTS (note deficiencies):				

DSA 810 (rev 05-12-14) Page 1 of 1
DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA

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LICENSED ARCHITECT JOSEPH N. YEE C-10175 9-30-15 RENEWAL DATE STATE OF CALIFORNIA

COLUSA UNIFIED SCHOOL DISTRICT
EGLING MS RELOCATABLE CLASSROOMS AND HARDCOURT PAVING
813 WEBSTER STREET
COLUSA, CA

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OFFICE OF REGULATION SERVICES

61598-009	02-114730	6-9
PROJECT TRACKING NUMBER	APPLICATION NUMBER	FILE NUMBER

AC MT FLS [initials] SS JT
DATE 3-9-16

#	Date	Revision

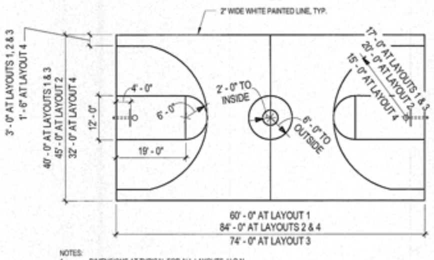
CONSTRUCTION DOCUMENTS

NEXUS PROJECT #: 15125
CHECKED BY:
DRAWN BY: Author
DATE: 10/30/15

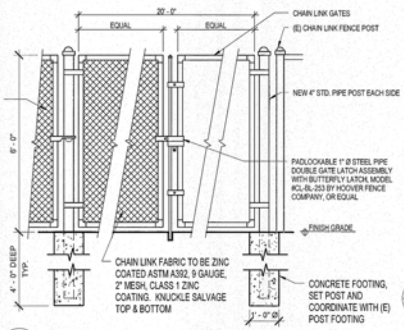
LOCAL FIRE AUTHORITY SITE PLAN

AS102

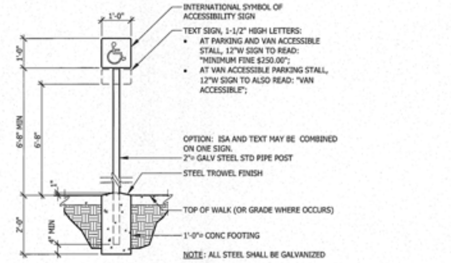
11/2/2015 9:19:18 AM



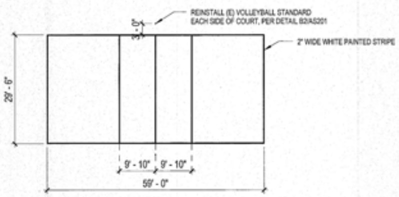
D2 BASKETBALL COURT STRIPING
AS201 1/16" = 1'-0"



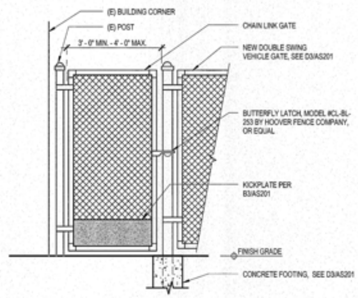
D3 DOUBLE CHAIN LINK GATE
AS201 1/2" = 1'-0"



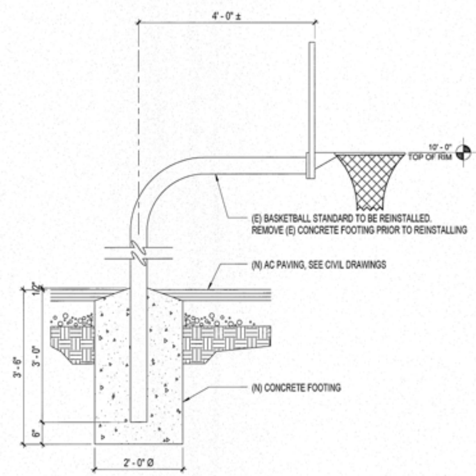
D4 SIGN POLE
AS201 1/2" = 1'-0"



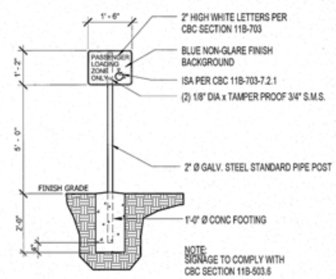
C2 VOLLEYBALL COURT STRIPING
AS201 1/16" = 1'-0"



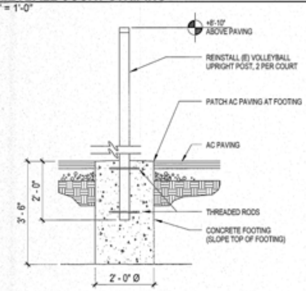
C3 SINGLE CHAIN LINK GATE
AS201 1/2" = 1'-0"



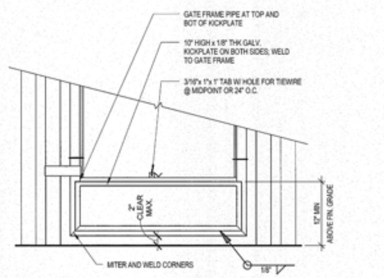
B4 BASKETBALL STANDARD FOOTING
AS201 3/4" = 1'-0"



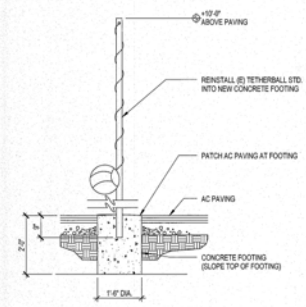
B1 SIGN - PARENT DROP OFF
AS201 1/2" = 1'-0"



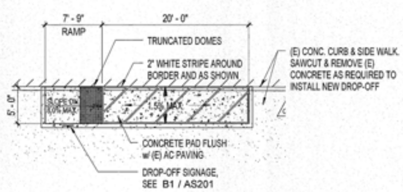
B2 VOLLEYBALL STANDARD
AS201 1/2" = 1'-0"



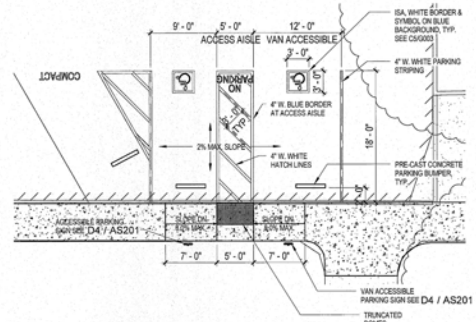
B3 KICKPLATE
AS201 1" = 1'-0"



A2 TETHERBALL
AS201 1/2" = 1'-0"



A3 DROP-OFF
AS201 1/8" = 1'-0"



A4 ACCESSIBLE PARKING
AS201 1/8" = 1'-0"

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LICENSED ARCHITECT
JOSEPH N. KEE
C-10179
9-30-16
RENEWAL DATE
STATE OF CALIFORNIA

COLUSA UNIFIED SCHOOL DISTRICT
EGLING MS RELOCATABLE CLASSROOMS AND HARDCOURT PAVING
813 WEBSTER STREET
COLUSA, CA

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

61598-009	02-114730	6-9
PROJECT TRACKING NUMBER	APPLICATION NUMBER	FILE NUMBER

AC MJT FLS SS
DATE 3-9-16

#	Date	Revision

CONSTRUCTION DOCUMENTS

NEXUS PROJECT #: 15125
CHECKED BY:
DRAWN BY: DS
DATE: 3/9/2016

SITE DETAILS

AS201

3/7/2016 1:25:07 PM

EXISTING TOPOGRAPHY

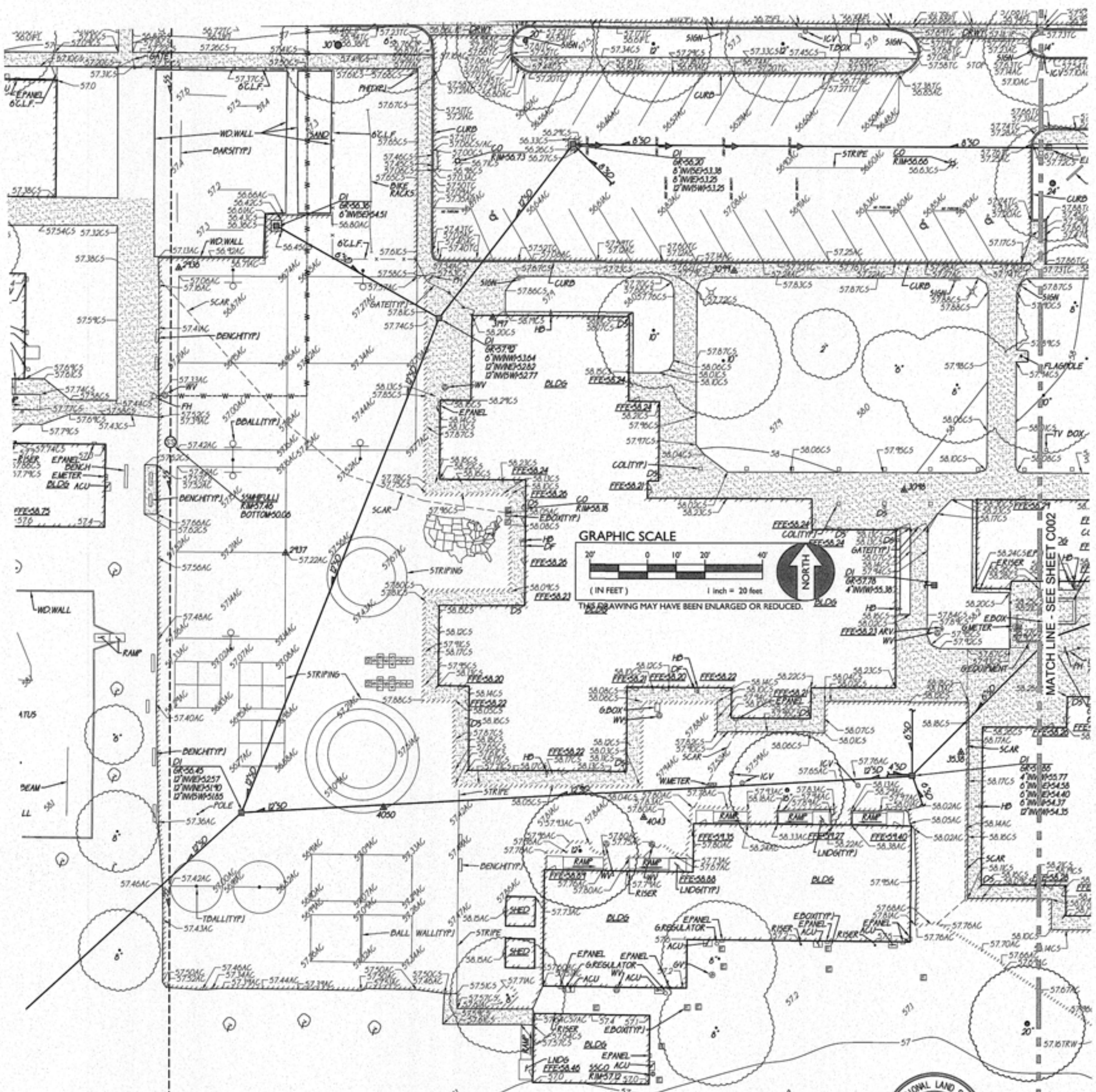
- PROPERTY LINE
- CENTERLINE
- EASEMENT
- PROPERTY CORNER FOUND AS NOTED
- PROPERTY CORNER NOTHING FOUND OR SET
- TEMPORARY BENCHMARK (SEE TBM LIST FOR INFO)
- SWALE OR DRAINAGE FLOW
- DRAINAGE FLOW
- FENCE (TYPE NOTED)
- TREE (SIZE/TYPE INDICATED)
- SLOPE
- CONTOUR
- CONCRETE SURFACE
- EDGE OF ASPHALT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

EXISTING UTILITIES

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

TBM LIST

NUMBER	DESCRIPTION	NORTHING	EASTING	ELEVATION
1	CPF BM MON W113	5989.53	2144.99	59.90
2	CPS CHISELED "+"	6000.00	2000.00	56.00
3	CPS CHISELED "+"	5617.66	2111.57	56.21
4	CPS MAG NAIL	5762.21	2169.62	57.44
5	CPF MON	5581.53	2020.83	55.68
101	CPS CHISELED "+"	6282.45	3198.95	55.94
2567	CPF MON INTX	5577.54	3221.28	55.20
2737	CPF MON INTX	6257.50	3223.64	56.38
2932	CPS CHISELED "+"	5844.14	2064.95	56.33
2933	CPS PICKER	6145.80	2170.88	56.90
2934	CPS MAG NAIL	6048.23	2289.13	58.08
2935	CPS MAG NAIL	5996.83	2282.77	57.95
2936	CPS MAG NAIL	6148.00	2405.35	57.14
2937	CPS MAG NAIL	6049.16	2442.77	52.65
2938	CPS CHISELED "+"	6220.34	2264.45	56.95
2939	CPS CHISELED "+"	6279.26	2254.87	57.00
2940	CPS MAG NAIL	5844.27	2222.17	57.85
2941	CPS CHISELED "+"	5611.85	2448.40	55.46
2980	CPS MAG NAIL	5550.76	3249.32	54.50
2981	CPS MAG NAIL	5950.98	3238.33	55.26
2982	CPS CHISELED "+"	5993.28	2874.69	57.21
3097	CPS CHISELED "+"	6193.52	2786.83	58.06
3098	CPS CHISELED "+"	6071.52	2657.75	58.06
3099	CPS CHISELED "+"	6147.41	2598.52	57.70
3100	CPS CHISELED "+"	6263.34	2483.36	57.70
3197	CPS CHISELED "+"	6130.92	2514.52	58.27
3538	CPS MAG NAIL	5980.48	2677.73	58.15
3775	CPS CHISELED "+"	6055.13	2753.74	58.37
4043	CPS MAG NAIL	5957.77	2567.57	57.77
4044	CPS PICKER	5826.00	2641.21	56.68
4050	CPS MAG NAIL	5960.97	2476.98	57.30
4640	CPS MAG NAIL	6122.26	2912.71	57.25
4641	CPS CHISELED "+"	5880.00	2801.58	57.56



NOTE:
THE TYPES, LOCATIONS, SIZES, AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, WARREN CONSULTING ENGINEERS CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY MEMBERS OF USA TWO(2) WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK BY CALLING TOLL FREE 1-800-227-2600.

811 Know what's below. Call before you dig.

PROFESSIONAL LAND SURVEYOR THOMAS E. FASSBENDER NO. 8327 STATE OF CALIFORNIA
3-7-16

WCE WARREN CONSULTING ENGINEERS, INC.
1117 WINDFIELD WAY, SUITE 110
EL DORADO HILLS, CA 95762 (916) 985-1870

FILENAME: I:\15-191\CIVIL\DWG\15-191-C001.DWG

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COLUSA UNIFIED SCHOOL DISTRICT EGLING MS RELOCATABLE CLASSROOMS AND HARDCOURT PAVING

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61598-09	02-114730	6-9

AC AII FLS ___ SS ___
DATE 3-9-16

#	Date	Revision

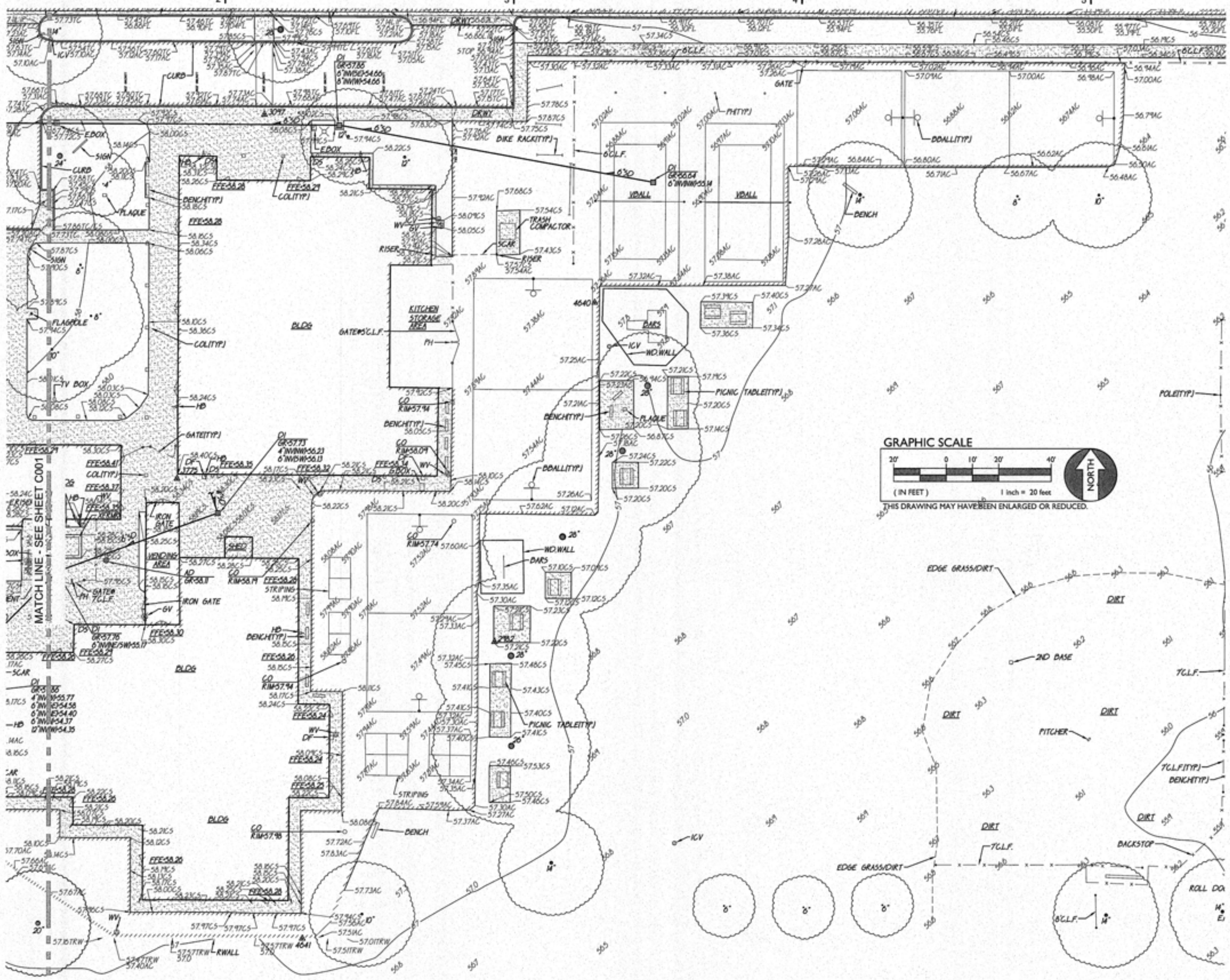
CONSTRUCTION DOCUMENTS

NEXUS PROJECT #: 15125
CHECKED BY:
DRAWN BY: Author
DATE: 3/9/2016

TOPOGRAPHIC SURVEY

C001

9/15/2015 2:12:39 PM



ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS MAY BE USED ON THESE PLANS.

??	UNKNOWN
AC	ASPHALTIC CONCRETE
ACC	ACCESSIBLE
ACU	AIR CONDITIONING UNIT
AD	AREA DRAIN
APN	ASSESSOR'S PARCEL NUMBER
ARV	AIR RELEASE VALVE
BBALL	BASKETBALL POLE
BCM	BRASS CAP MONUMENT
BFP	BACK FLOW PREVENTER
BL	BLOCK
BLDG	BUILDING
BOL	BOLLARD
BOV	BLOW-OFF VALVE
BR	BRICK
BWF	BARBED WIRE FENCE
C	COMMUNICATION
C.L.	CENTERLINE
CATV	CABLE TELEVISION
CB	CATCH BASIN
CIP	CAPPED IRON PIPE
GL	GLASS
C.L.F.	CHAIN LINK FENCE
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
COL	COLUMN
CONC.	CONCRETE
COND.	CONDENSATE
CONST.	CONSTRUCT
CPF	CONTROL POINT FOUND
CPS	CONTROL POINT SET
CS	CONCRETE SURFACE
D	DEPTH
DDC	DOUBLE DETECTOR CHECK VALVE
DF	DRINKING FOUNTAIN
DG	DECOMPOSED GRANITE
DI	DROP INLET
DIA	DIAMETER
DRWY	DRIVEWAY
DS	DOWNSPOUT
DWG	DRAWING
E	ELECTRIC
EP	EDGE OF PAVEMENT
ESMT	EASEMENT
EX	EXISTING
F	FIRE LINE
FA	FIRE ALARM
FDC	FIRE DEPARTMENT CONNECTION
FFE	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
FL	FLOWLINE
FO	FIBER OPTIC
FS	FIRE SERVICE
G	GAS
GB	GRADE BREAK
GR	GRATE
GRB	GROUND ROD BOX
GRD	GRADE ELEVATION
GROD	GROUND ROD
GV	GAS VALVE
HB	HOSE BIBB
HBD	HEADER BOARD
HP	HIGH PRESSURE
HR	HANDRAIL
HVE	HIGH VOLTAGE ELECTRIC
ICP	IRRIGATION CONTROL PANEL
ICV	IRRIGATION CONTROL VALVE
INV	PIPE INVERT ELEVATION
IRR	IRRIGATION
JP	JOINT UTILITY POLE
JT	JOINT TRENCH
LF	LINEAL FEET
LNDG	LANDING
LVE	LOW VOLTAGE ELECTRIC
M	METAL
MH	MANHOLE
MS	MOW STRIP
MSC	METAL STORAGE CONTAINER
NTS	NOT TO SCALE
OH	OVERHEAD
OHANG	OVERHANG
OIP	OPEN IRON PIPE
OSPH	OLD STEEL POST HOLE
P.L.	PROPERTY LINE
PA	PLANTER AREA
PD	PLANTER DRAIN
PH	POSTHOLE
PIV	POST INDICATOR VALVE
PP	POWER POLE
PRKG	PARKING
PUE	PUBLIC UTILITY EASEMENT
PVC	POLYVINYL CHLORIDE
R	RUBBER
RIM	MANHOLE RIM ELEVATION
ROW	RIGHT OF WAY
RP	REDUCED PRESSURE BACKFLOW PREVENTER
RWALL	RETAINING WALL
RWL	RAIN WATER LEADER
SB	SIGNAL BOX
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SIG	SIGNAL
SL	STREET LIGHT
SLB	STREET LIGHT BOX
SS	SANITARY SEWER
SSCO	SANITARY SEWER CLEANOUT
SSMH	SANITARY SEWER MANHOLE
STD	STANDARD
STL	STEEL
T	TELEPHONE
TBALL	TETHER BALL POLE
TBM	TEMPORARY BENCHMARK
TC	TOP OF CURB
TOW	TOP OF WALL
TP	TELEPHONE POLE
TRW	TOP OF RETAINING WALL
UG	UNDERGROUND
UNK	UNKNOWN
UON	UNLESS OTHERWISE NOTED
VBALL	VOLLEYBALL
W	WATER
W/	WITH
W/O	WITHOUT
WD	WOOD
W.I.F.	WROUGHT IRON FENCE
XFRMR	TRANSFORMER
XWALK	CROSSWALK

NOTE:
EXISTING UTILITIES BASED ON VISIBLE SURFACE STRUCTURES AND RECORD INFORMATION.

BASIS OF BEARINGS:
ASSUMED

FEMA INFORMATION:
THE SUBJECT PROPERTY IS LOCATED IN "ZONE X (SHADED)--AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD" PER FLOOD INSURANCE RATE MAP 06011C0535F DATED MAY 15, 2003.

NOTE:
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PROFESSIONAL LAND SURVEYOR THOMAS E. FASSBENDER NO. 8327 STATE OF CALIFORNIA

WCE WARREN CONSULTING ENGINEERS, INC.
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FILENAME: I:\15-191\CIVIL\DWG\15-191-C002.DWG

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61598-09	02-114730	6-9
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CONSTRUCTION DOCUMENTS

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DRAWN BY: Author
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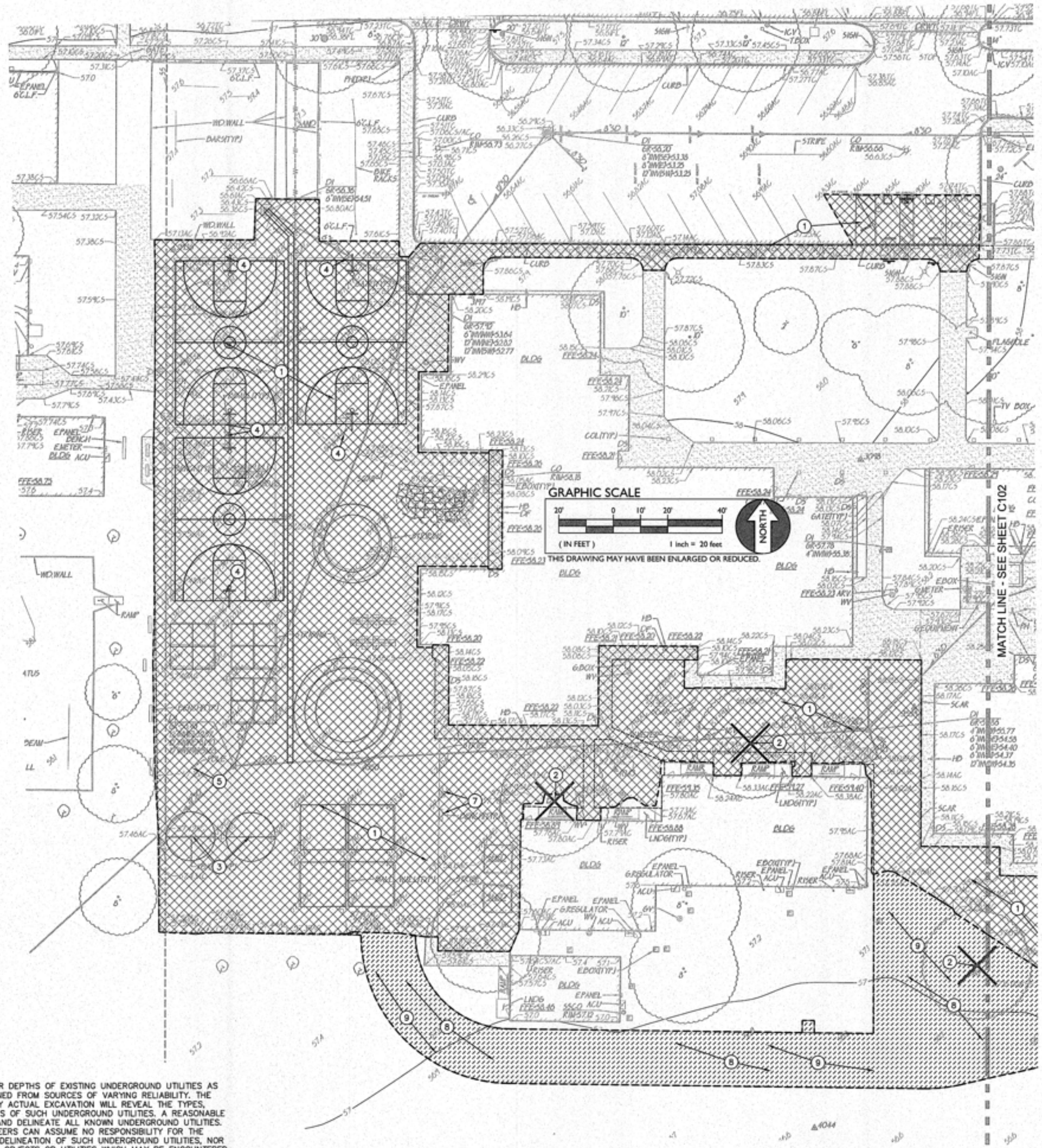
TOPOGRAPHIC SURVEY

C002



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DEMOLITION GENERAL NOTES

A. THE CONTRACTOR SHALL CONFORM TO CHAPTER 14, CALIFORNIA FIRE CODE (CFC), "FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION, AT ALL TIMES DURING THE CONSTRUCTION PROCESS. A COPY OF THIS CHAPTER CAN BE PROVIDED TO THE CONTRACTOR AT HIS REQUEST.

B. IN THE EVENT THAT ANY UNUSUAL CONDITIONS NOT COVERED BY THE GEOTECHNICAL INVESTIGATION REPORT OR ARE ENCOUNTERED DURING GRADING OPERATIONS THE GEOTECHNICAL ENGINEER AND THE ARCHITECT SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTIONS.

C. NO BURNING OR BLASTING SHALL BE PERMITTED.

D. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS, AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, WARREN CONSULTING ENGINEERS CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY THE DISTRICT AND MEMBERS OF USA TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK IN ORDER TO VERIFY TO THE GREATEST EXTENT POSSIBLE THE EXISTING UTILITY LINES, CONFLICTS AND PROPOSED UTILITY CONNECTION POINTS. CALL USA TOLL FREE AT 1-800-227-2600.

E. ADDITIONAL DEMOLITION INFORMATION MAY BE SHOWN ON THE GRADING, DRAINAGE, AND UTILITY PLANS, AND THOSE PLANS PREPARED BY OTHER DISCIPLINES FOR THIS PROJECT.

F. ALL DEMOLISHED ITEMS SHALL BE DISPOSED OF OFFSITE AT A SUITABLE, LEGAL, DUMP SITE OR OTHER FACILITY UNLESS SCHEDULE TO BE SALVAGED.

G. ALL DISPOSED MATERIALS SHALL BE RECYCLED IF POSSIBLE.

H. ALL TRENCHING THROUGH EXISTING ASPHALT PAVEMENT, CONCRETE OR LANDSCAPES SURFACES SHALL BE REMOVED AND REPLACED BACK TO ORIGINAL THICKNESS AND SURFACE.

I. ALL EXISTING SURFACE-SUBSTRATE ADJACENT TO ITEMS OF WORK SHALL BE RESTORED TO ORIGINAL CONDITION.

J. ALL TURF AREAS DISTURBED SHALL BE REPLACED WITH SOD.

K. CONCRETE SIDEWALK TO BE REMOVED SHALL BE REMOVED TO FACE OF BUILDING BY ANY MEANS NECESSARY. ANY DAMAGE TO FACE OF BUILDING SHALL BE REPAIRED AT NO ADDITIONAL COST TO OWNER.

L. CONTRACTOR TO ANTICIPATE AN EXISTING CONCRETE THICKNESS OF UP TO 6".

M. ALL UTILITY BOXES THAT ARE TO REMAIN SHALL BE PROTECTED AND SHALL BE ADJUSTED TO NEW FINISH GRADES. ANY BOXES THAT ARE BROKEN SHALL BE REPLACED.

N. ALL DOOR STOPS SHALL BE REMOVED AND REPLACED PER SECTION 087100 WITHIN LIMITS OF WORK.

O. ALL RUBBER DOOR TRANSITIONS SHALL BE REMOVED AND RETURNED TO DISTRICT.

DEMOLITION NOTES:

1. SAWCUT AND REMOVE EXISTING CONCRETE OR ASPHALT PAVING AND AGGREGATE BASE. SAWCUT SHALL BE A NEAT STRAIGHT LINE. CONCRETE REMOVAL: CUT SHALL BE MADE AT NEAREST JOINT TO LOCATION SHOWN.
2. REMOVE EXISTING TREE.
3. REMOVE TETHERBALL POSTS.
4. BASKETBALL STANDARDS TO BE REMOVED AND REINSTALLED OR LEFT IN PLACE AT CONTRACTORS OPTION.
5. APPARATUS POST TO BE REMOVED AND REINSTALLED OR LEFT IN PLACE AT CONTRACTORS OPTION.
6. REMOVE EXISTING RETAINING WALL.
7. RELOCATE BENCH ON SITE.
8. CLEAR AND GRUB
9. ADJUST SPRINKLERS AS NECESSARY TO ACCOMMODATE NEW PAVING.

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WARREN CONSULTING ENGINEERS, INC.
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EL DORADO HILLS, CA 95762 (916) 985-1870

REGISTERED PROFESSIONAL ENGINEER THOMAS E. FASSBENDER NO. C48254 CIVIL STATE OF CALIFORNIA 3/7/2016

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CONSTRUCTION DOCUMENTS

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DEMOLITION PLAN

C101

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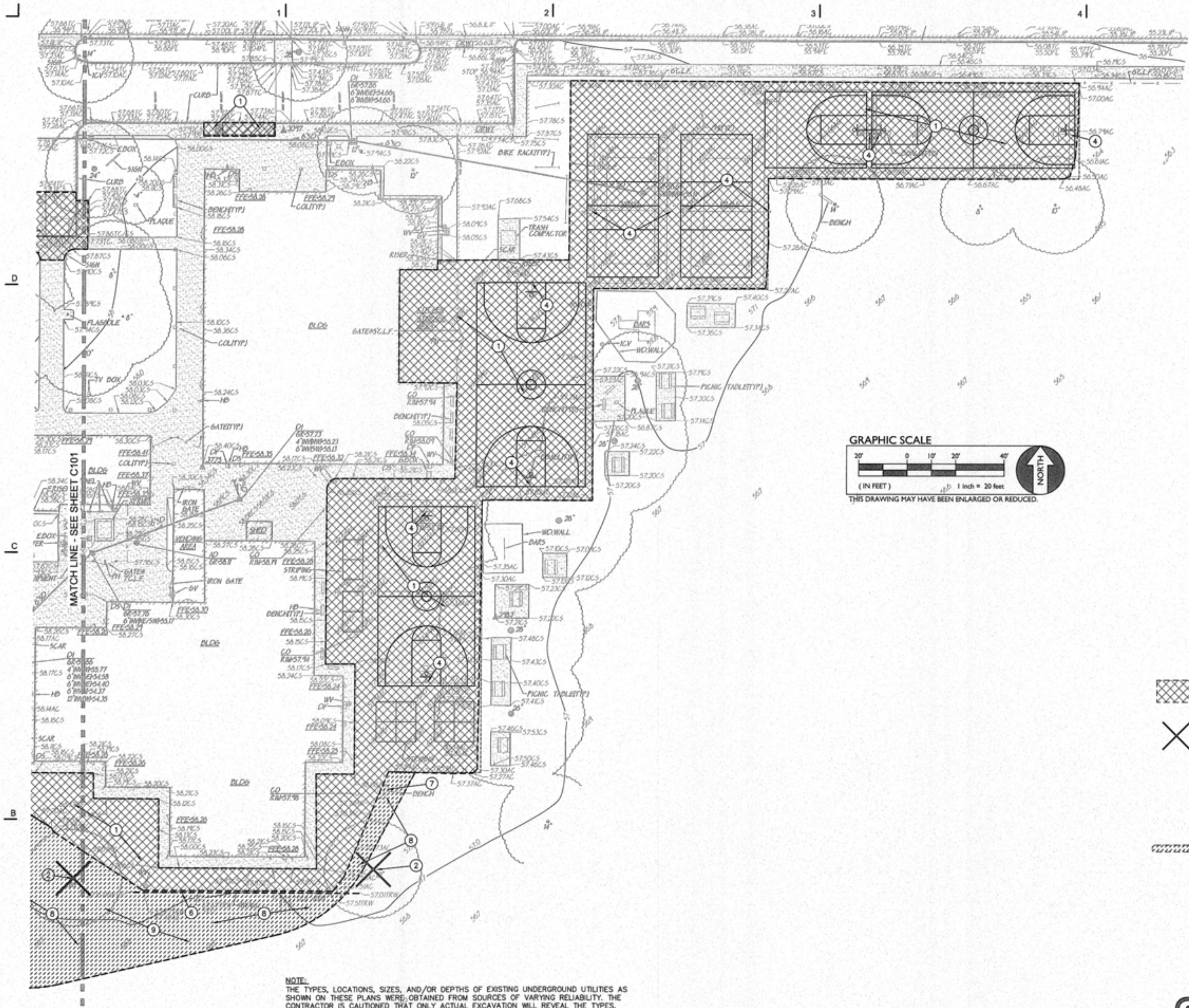

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REGISTERED PROFESSIONAL ENGINEER
THOMAS E. FASSBENDER
NO. C48254
CIVIL
STATE OF CALIFORNIA
3/7/2016

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CONSTRUCTION DOCUMENTS

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DRAWN BY: Author
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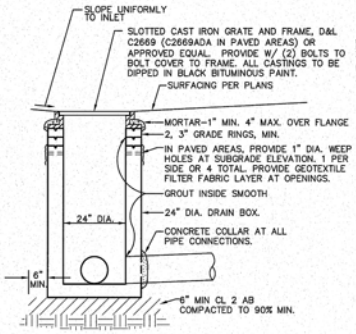
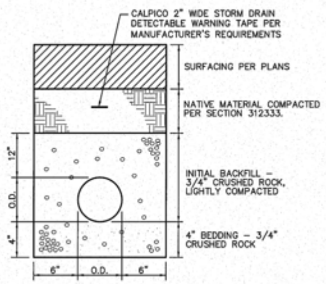
DEMOLITION PLAN

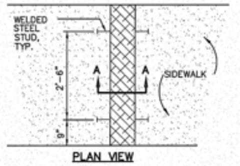
C102

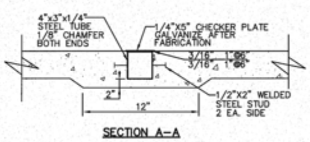


1 / C201 DROP INLET
NO SCALE

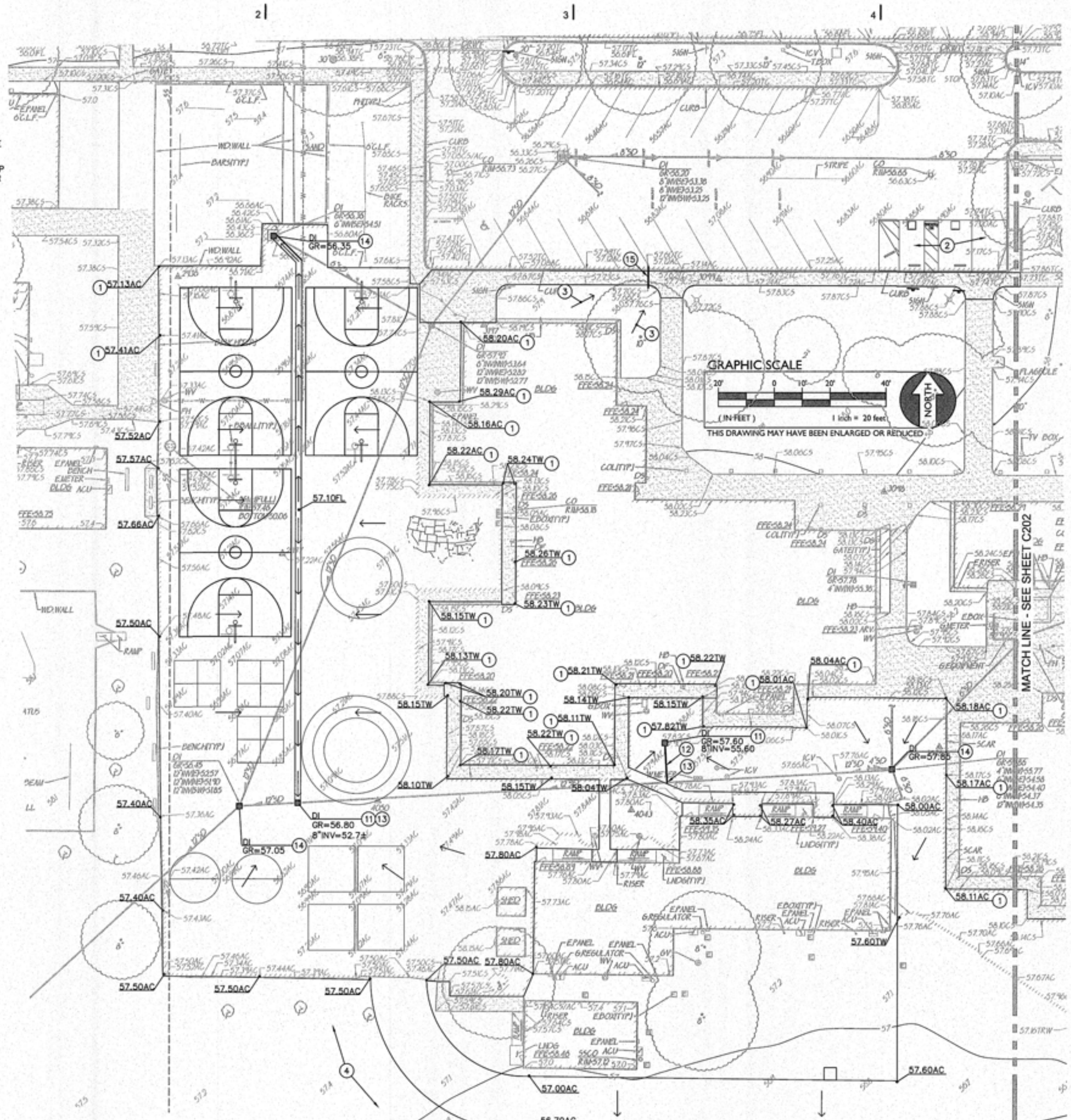


2 / C201 STORM DRAIN TRENCH
NO SCALE





3 / C201 UNDER SIDEWALK DRAIN
NO SCALE



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GRADING NOTES

1. MATCH EXISTING GRADE/ELEVATION.
2. SLOPE SHALL NOT EXCEED 2% IN ANY DIRECTION AT PAVED AREAS
3. GRADE AREA TO UNDERSIDE DRAIN.
4. SLOPE LANDSCAPE AREA TO EAST. GRADE AT 4:1 MAX.

DRAINAGE NOTES

11. CONSTRUCT DROP INLET PER 1/C201
12. PLACE 8" STORM DRAIN PER 2/C201
13. CONNECT TO EXISTING STORM DRAIN. POTHOLE TO VERIFY DEPTH AND LOCATION.
14. REMOVE EXIST. FRAME AND GRATE AND REPLACE W/FRAME AND GRATE FROM 1/C201
15. CONSTRUCT UNDER SIDEWALK DRAIN PER 3/C201

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REGISTERED PROFESSIONAL ENGINEER
THOMAS E. FASSBENDER
NO. C48254
CIVIL
STATE OF CALIFORNIA
3/7/2016

GRADING PLAN

WCE
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C201

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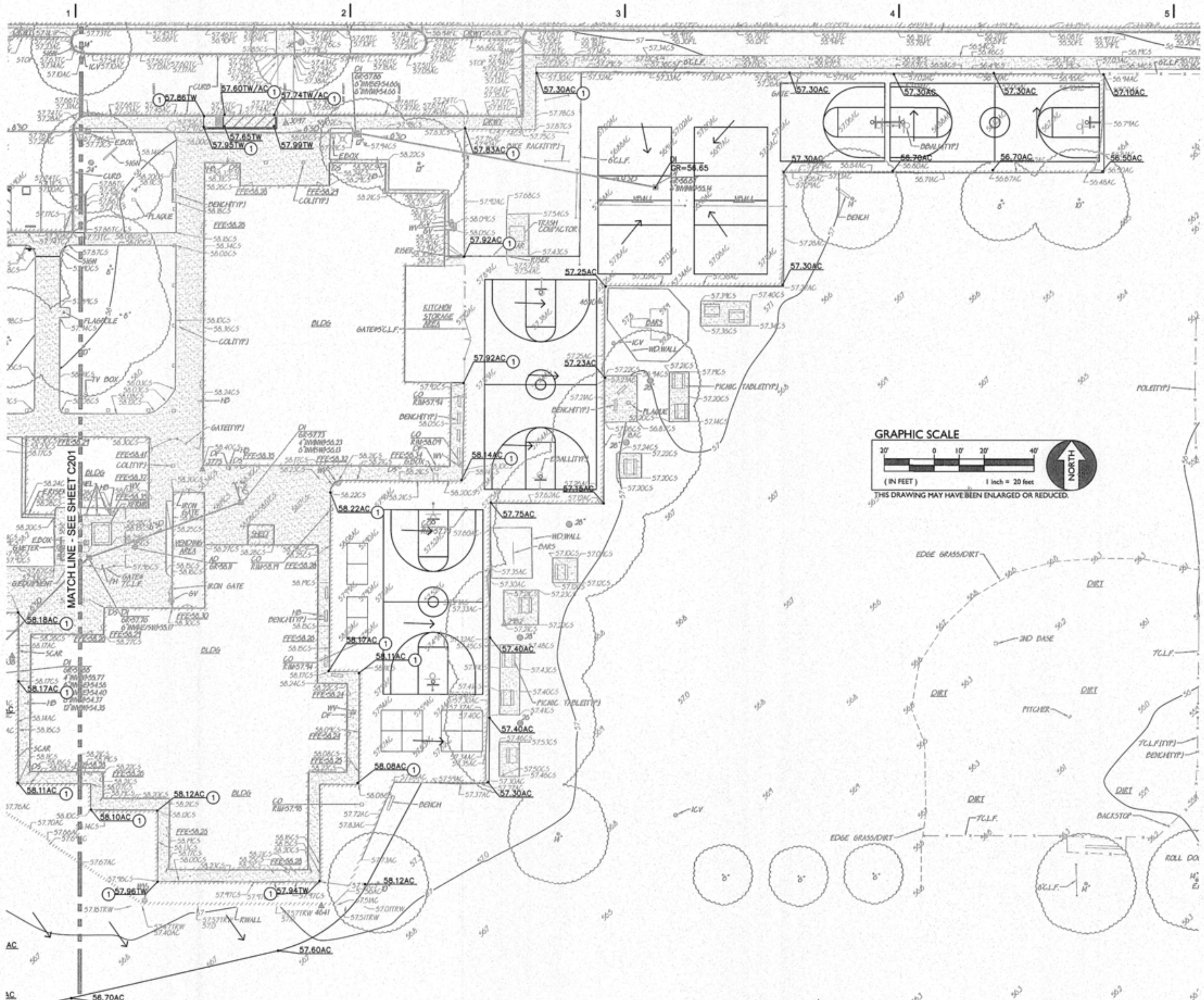

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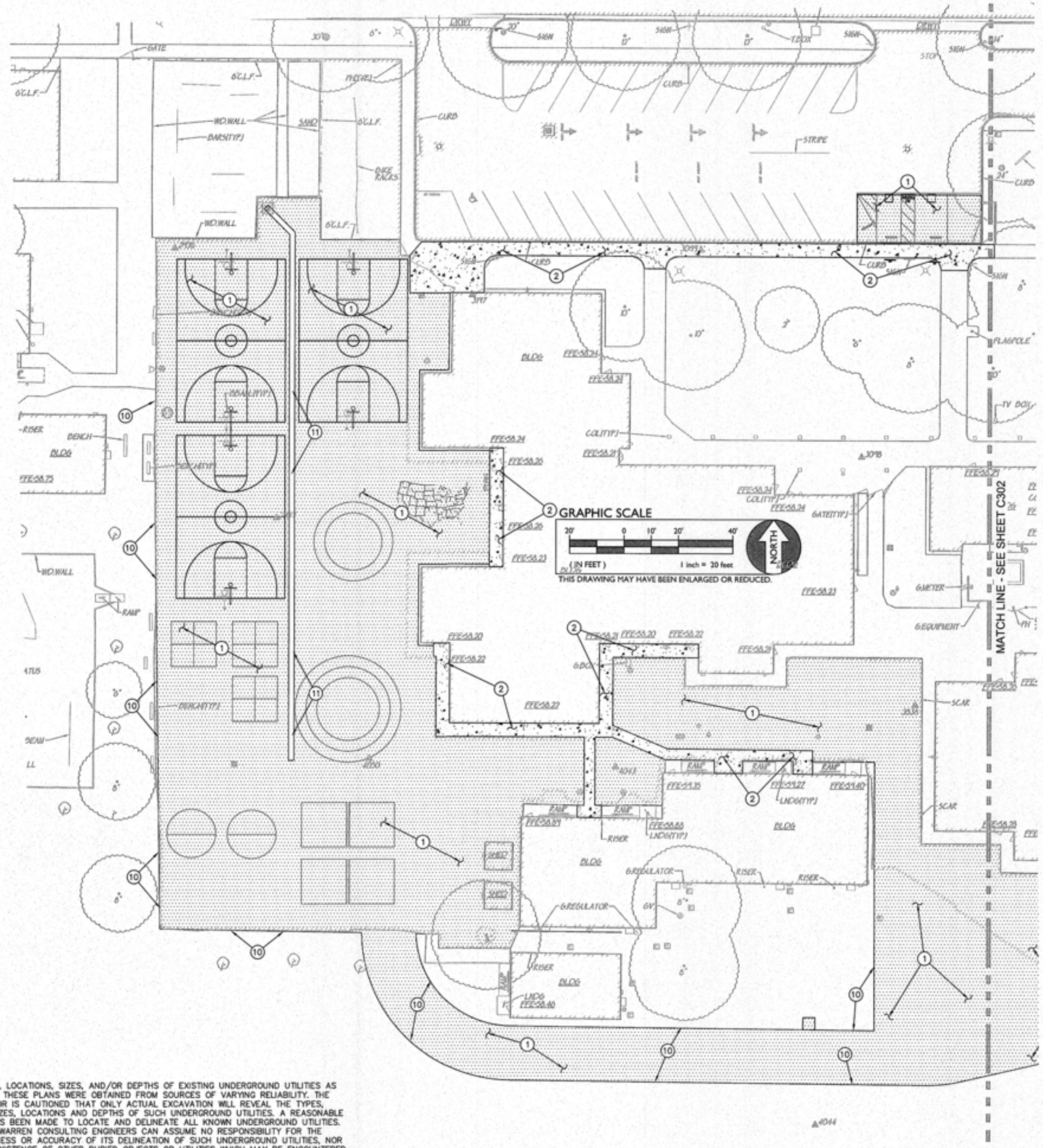
GRADING PLAN

C202



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GENERAL NOTES

1. ADJUST TO FINISH GRADE ALL UTILITY BOXES, FRAMES, COVERS SLEEVES, POST HOLES, GRATES, ETC. FOUND IN AREA OF WORK. CLEAN OR REPLACE AS NECESSARY TO ENSURE PROPER SEATING.
2. SLOPE OF FINISHED PAVING TO BE 1% MINIMUM FOR ASPHALT, 0.5% MINIMUM FOR CONCRETE AND THE MAXIMUM SLOPE SHALL BE AS FOLLOWS;

   CROSS SLOPE PERPENDICULAR TO PATH OF TRAVEL -2%
   DIRECTION OF TRAVEL -5%
   RAMP IN DIRECTION OF TRAVEL -8.33%
   PLAZA-2% IN ANY DIRECTION.
3. UNLESS OTHERWISE NOTED DOWNSPOUTS AND RAIN WATER LEADERS SHALL BE MODIFIED AS FOLLOWS:
   A. SURFACE DRAINING - SHALL BE CUT AS NECESSARY TO ALLOW DRAINAGE AFTER PAVING.
   B. HARD CONNECTED - SHALL BE RECONNECTED TO DRAINAGE SYSTEM. PROVIDE ALL FITTINGS NECESSARY TO MAKE CONNECTION.
4. REMOVE AND REINSTALL ALL CHAIN LINK FENCING FABRIC TO ALLOW FOR NEW PAVING AND/OR OVERLAY. REINSTALL AFTER PAVING IS COMPLETE.
5. ADJUST ALL SANITARY SEWER CLEANOUTS WITHIN AREA OF WORK LIMITS PER 2/C302
6. UNLESS OTHERWISE NOTED, ALL STRIPING REMOVED DURING CONSTRUCTION/DEMOLITION TO BE REPLACED.

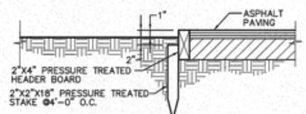
PAVING LEGEND

(1) TYPE 1 PAVING
PLACE 5" PCC W/8" X 6" W2.1 X W2.1 WWF OVER COMPACTED SUBGRADE PER SPECIFICATION SECTION
CONSTRUCT CONCRETE SIDEWALK PER 1/C302

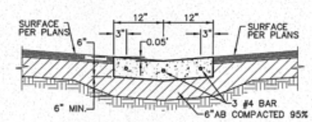
(2) TYPE 2 PAVING
PLACE 3"AC OVER 6"AB ON COMPACTED SUBGRADE.

PAVING NOTES

10. CONSTRUCT HEADER BOARD PER 1/C301
11. CONSTRUCT CONCRETE VALLEY GUTTER PER 2/C301



1/C301 HEADER BOARD
NO SCALE



NOTES:
1. PROVIDE FELT EXPANSION JOINTS (E.J.) AT 60 FEET O.C. SEAL E.J. WITH APPROVED JOINT SEALANT. PROVIDE CONTROL JOINTS AT 10 FEET O.C.
2. AT E.J. USE 1/2"X24" SMOOTH DOWELS, ALIGN WITH REBAR, GREASE 1/2 THE LENGTH BEFORE CONCRETE PLACEMENT.

2/C301 CONCRETE VALLEY GUTTER
NO SCALE

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OFFICE OF REGULATION SERVICES

PROJECT TRACKING NUMBER	APPLICATION NUMBER	FILE NUMBER
61598-09	02-114730	6-9

AC MM FLS JL SS K
DATE 3-9-16

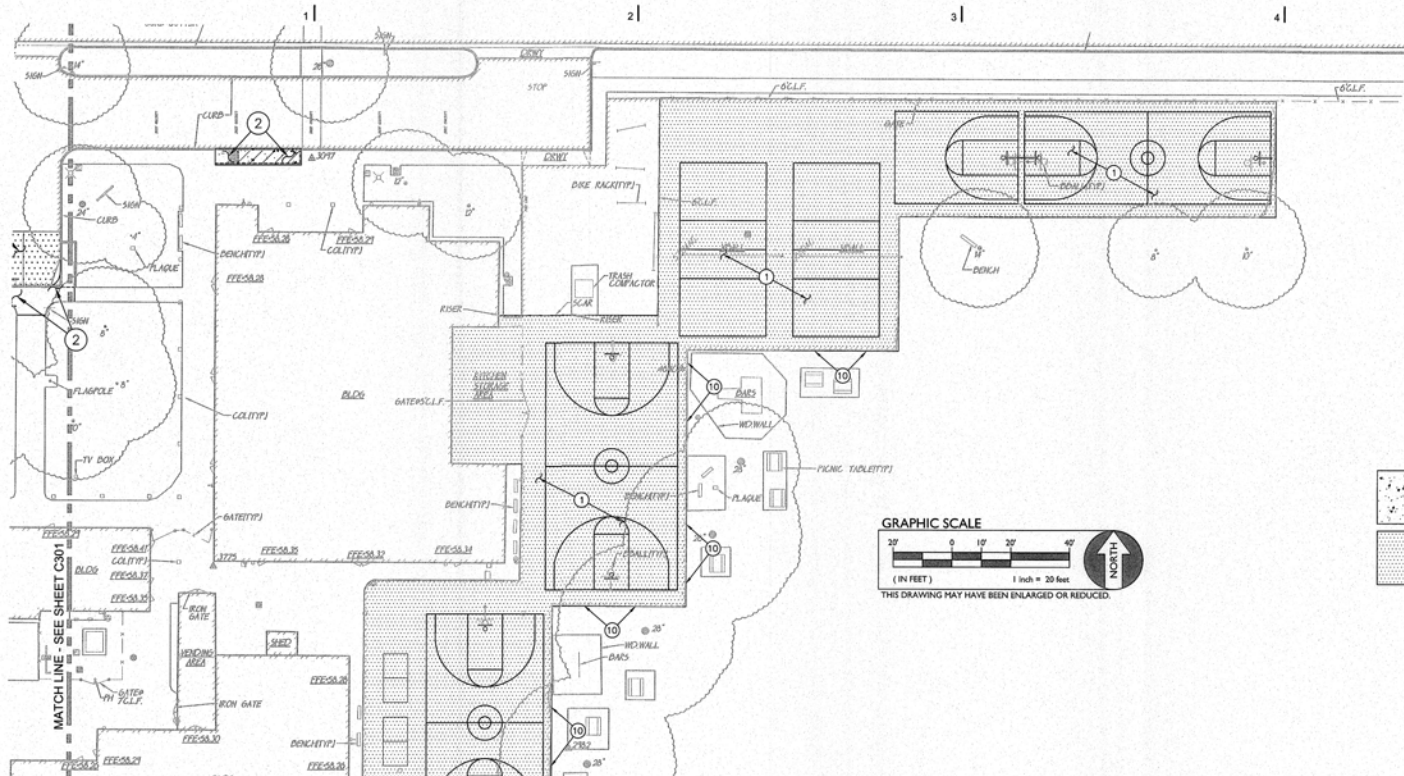
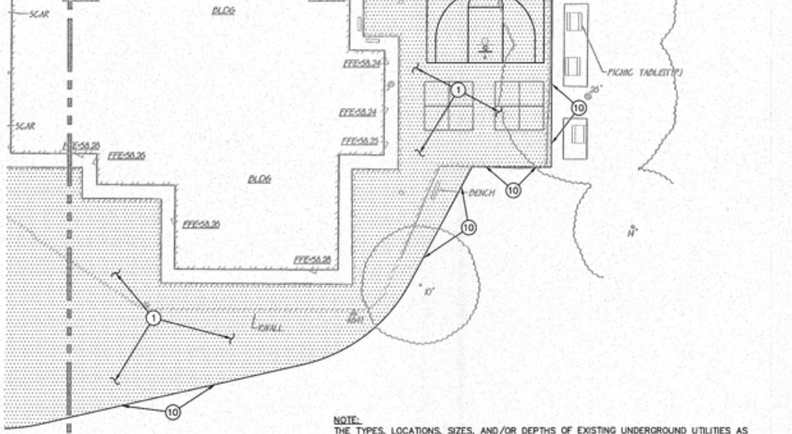
#	Date	Revision

CONSTRUCTION DOCUMENTS

NEXUS PROJECT #: 15125
CHECKED BY:
DRAWN BY: Author
DATE: 3/9/2016

PAVING PLAN

C301

GRAPHIC SCALE

(IN FEET) 1 inch = 20 feet

THIS DRAWING MAY HAVE BEEN ENLARGED OR REDUCED.

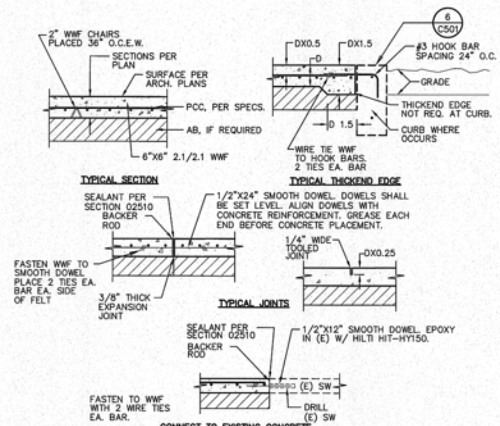
PAVING LEGEND

1. TYPE 1 PAVING
PLACE 5" PCC W/6" X 6" W2.1 X W2.1 WWF OVER COMPACTED SUBGRADE PER SPECIFICATION SECTION CONSTRUCT CONCRETE SIDEWALK PER 1/C302

2. TYPE 2 PAVING
PLACE 3"AC OVER 6"AB ON COMPACTED SUBGRADE.

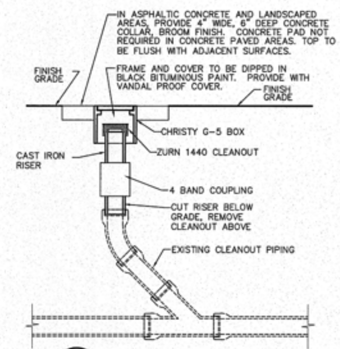
PAVING NOTES

10. CONSTRUCT HEADER BOARD PER 1/C301
11. CONSTRUCT CONCRETE VALLEY GUTTER PER 2/C301
12. CONST. ACCESSIBLE LOADING AREA, SEE ARCH. DWGS.



NOTE:
PROVIDE EXPANSION JOINTS AT 20 FEET O.C. MAX.
PROVIDE CONTROL JOINTS AT 10 FEET O.C. MAX.
JOINTS TO MATCH EXISTING JOINT PATTERN U.O.N.
DOBIES NOT APPROVED ON WELDED WIRE MESH

1/C302 CONCRETE SIDEWALK — NO SCALE



2/C302 CLEANOUT — NO SCALE

NOTE:
THE TYPES, LOCATIONS, SIZES, AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, WARREN CONSULTING ENGINEERS CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY MEMBERS OF USA TWO(2) WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK BY CALLING TOLL FREE 1-800-227-2600.

811 Know what's below. Call before you dig.

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

REGISTERED PROFESSIONAL ENGINEER THOMAS E. FASSBENDER NO. C48254 CIVIL STATE OF CALIFORNIA 3/7/2016

FILENAME: I:\15-191\CIVIL\DWG\15-191-C302.DWG

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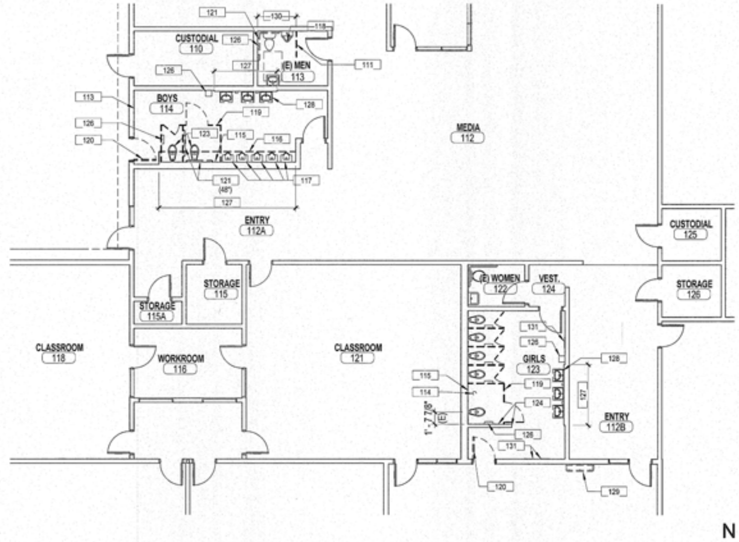
PAVING PLAN

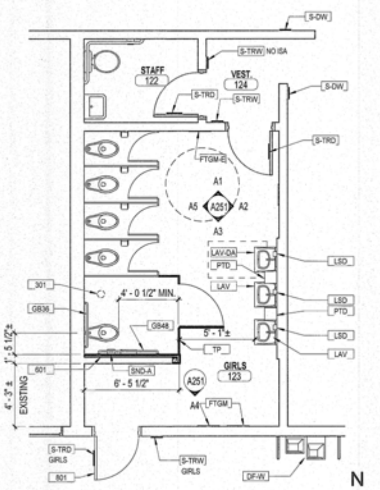
C302

GENERAL NOTES:

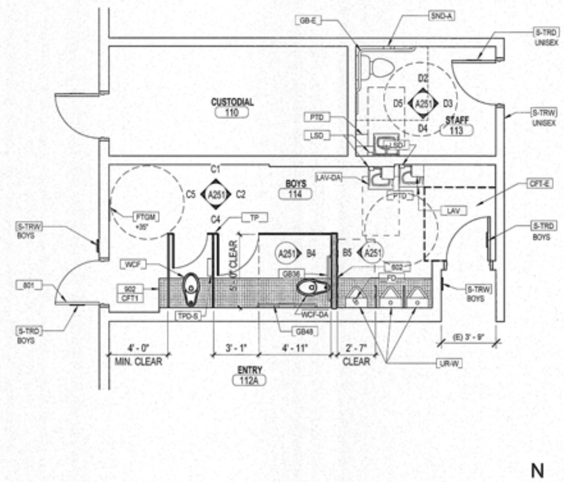
1. CUT & PATCH EXISTING FINISHES AS REQUIRED TO INSTALL BLOCKING BEHIND ACCESSORIES. PATCH FINISHES TO MATCH ADJACENT. PATCHES TO BE FLUSH AND INVISIBLE.
2. SEE SHEET G003 FOR ACCESSIBILITY REQUIREMENTS FOR SIGNAGE, FIXTURE AND ACCESSORY HEIGHTS WHERE HEIGHTS ARE NOT SPECIFICALLY NOTED ON INTERIOR ELEVATIONS.



1 BUILDING 100 PARTIAL FLOOR PLAN - DEMOLITION
A101 1/8" = 1'-0"



3 BUILDING 100 FLOOR PLAN - IMPROVEMENT GIRLS
A101 1/4" = 1'-0"



2 ENLGARGED PLAN STAFF 113 & BOYS 114
A101 1/4" = 1'-0"

KEYNOTE LEGEND

111	REMOVE (E) SCREEN PARTITION.
113	REMOVE & SALVAGE EXISTING MIRROR
114	REMOVE (E) FLANGE TO TOP OF SLAB
115	REMOVE EXISTING PLUMBING STUB THROUGH WALL. REMOVE (E) CERMAIC WALL TILE ONLY TO EXTENT REQUIRED TO CAP STUB BEHIND WALL FINISH. TILE TO BE REMOVED TO GROUT JOINT.
116	SAWCUT & REMOVE EXISTING CONC SLAB TO EXTENT SHOWN TO NEAREST GROUT JOINT
117	REMOVE EXISTING STALL TYPE URINAL.
118	REMOVE EXISTING WALL MOUNTED URINAL
119	REMOVE EXISTING TOILET STALLS, TYP.
120	REMOVE EXISTING DOOR AND HARDWARE, DOOR FRAME & THRESHOLD TO REMAIN
121	REMOVE & SALVAGE EXISTING GRAB BAR
123	REMOVE EXISTING FLOOR MOUNTED WATER CLOSET
124	REMOVE EXISTING CERAMIC WALL TILE TO UNDERSIDE OF CEILING. REMOVE (E) TILE BACKER TO FACE OF STUD
126	EXISTING TOILET ACCESSORIES TO BE REMOVED BY OWNER, TYP.
127	REMOVE (E) CERAMIC WALL TILE TO +/-4' - 8" (TOP OF GROUT JOINT OF UPPERMOST DAMAGED TILE) FOR FULL WIDTH OF FURRED WALL, REMOVE TILE AROUND CORNER OF FURRING. SALVAGE SUFFICIENT FULL UNDAMAGED TILES REQUIRED TO REPLACE EXISTING NON-MATCHING TILES LOCATED ABOVE 5' - 0" (APPROXIMATELY 5 TILES)
128	REMOVE EXISTING WALL HUNG LAV AND CARRIER.
129	REMOVE (E) WALL MOUNTED DRINKING FOUNTAIN
130	REMOVE (E) CERAMIC TILE AT THIS WALL
131	(E) MIRROR TO REMAIN
301	PROVIDE ROUND FLOOR GRATE OVER REMAINING SEWER STUB
601	PROVIDE 2X HORIZONTAL FURRING TO UNDERSIDE OF CEILING. SEE DETAIL D4/A301. EXTEND WALL FRAMING TO LENGTH SHOWN. SEE DETAIL B4/A301. FINISH W/ CERAMIC TILE OVER TILE BACKERBOARD.
602	PROVIDE NEW 2x4 STUDS @ 16" OC TO UNDERSIDE OF CEILING. CUT CEILING FINISH AS REQUIRED TO INSTALL BLOCKING BETWEEN (E) 2x6 CEILING JOISTS TO ATTACH DOUBLE TOP PLATE. SEE DETAIL A5/A301. RELOCATE (E) GRILLE AND DUCT FOR (E) EXHAUST FAN AS REQUIRED TO AVOID CONFLICT WITH NEW WALL.
801	PROVIDE NEW DOOR & HARDWARE INTO EXISTING FRAME. PROVIDE WITH HARDWARE GROUP 01. FILL HOLES FROM STRIKE AND HINGES.
902	PROVIDE ACCENT FLOOR TILE WHERE INDICATED BY HATCH. 9000
CFT1	PROVIDE NEW ACCENT FLOOR TILE ON MORTAR SETTING BED. COLOR TO BE "DALTILE D141 GARDEN SPOT". ALIGN GROUT JOINTS WITH EXISTING FLOOR TILE JOINTS.
CFT-E	EXISTING CERAMIC FLOOR TILE TO REMAIN.
DF-W	NEW WALL HUNG HI-LO DRINKING FOUNTAIN AND RAILINGS, SEE A4/G003. CONNECT TO (E) PLUMBING.
FD	PROVIDE NEW FLOOR DRAIN AT (E) SEWER DROP FROM EXISTING STALL URINAL.
FTGM	FRAMED TEMPERED GLASS MIRROR. REMOVE & REINSTALL (E) AT SAME LOCATION AT HEIGHT PER G003.
FTGM-E	EXISTING FRAMED TEMPERED GLASS MIRROR TO REMAIN.
GB36	36" x 1 1/2" DIA GRAB BAR; SEE DETAILS A1 & C4/A301FOR ANCHORAGE. CUT AND PATCH EXISTING WALL FINISHES AS REQUIRED FOR BLOCKING INSTALLATION."
GB48	48" x 1 1/2" DIA GRAB BAR; SEE DETAILS A1 & C4/A301 FOR ANCHORAGE.(REINSTALL FROM BOYS 114) CUT AND PATCH EXISTING WALL FINISHES AS REQUIRED FOR BLOCKING INSTALLATION."
GB-E	REINSTALL (E) 'L' SHAPED GRAB BAR, REORIENT AS APPROPRIATE. PROVIDE BLOCKING AS REQUIRED FOR ANCHORAGE, SEE DETAIL */G003. PATCH WALL FINISHES AS REQUIRED BY INSTALLATION OF NEW BLOCKING, WHERE OCCURS.
LAV	PROVIDE NEW LAV, ADJUST (E) PLUMBING AS REQUIRED, SEE PLUMBING DRAWINGS.
LAV-DA	PROVIDE NEW ACCESSIBLE LAV, ADJUST (E) PLUMBING AS REQUIRED, SEE PLUMBING DRAWINGS.
LSD	LIQUID SOAP DISPENSER, OWNER SUPPLIED, CONTRACTOR INSTALLED
PTD	PAPER TOWEL DISPENSER, OWNER SUPPLIED, CONTRACTOR INSTALLED
S-DW	SIGN, DIRECTIONAL WITH ARROW AND TEXT TO ACCESSIBLE STAFF TOILET ROOM; SEE DETAIL D4/G003
S-TRD	SIGN, TOILET ROOM DOOR SYMBOL; SEE DETAIL D2/G003
S-TRW	SIGN, TOILET ROOM IDENTIFICATION; SEE DETAIL D1/G003
SND-A	SANITARY NAPKIN DISPOSAL, ACCESSIBLE
TP	
TPD-S	TOILET TISSUE DISPENSER, SURFACE MOUNTED. OWNER SUPPLIED, CONTRACTOR INSTALLED.
UR-W	NEW WALL HUNG URINAL. PATCH WALL FINISHES WEHRE EXISTING STALL TYPE URINALS WERE REMOVED. NEW WALL FINISHES TO BE FLUSH WITH AND MATCH ADJACENT SURFACES. 15000
WCF	PROVIDE NEW FLOOR MOUNTED WATER CLOSET, ADJUST (E) PLUMBING AS REQUIRED, SEE PLUMBING DRAWINGS.
WCF-DA	PROVIDE NEW ACCESSIBLE FLOOR MOUNTED WATER CLOSET, ADJUST (E) PLUMBING AS REQUIRED, SEE PLUMBING DRAWINGS.

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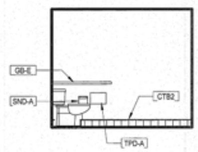
CONSTRUCTION DOCUMENTS

NEXUS PROJECT #: 15125
CHECKED BY:
DRAWN BY: DS
DATE: 3/9/2016

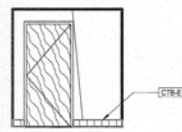
FLOOR PLANS

A101

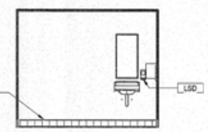
3/7/2016 1:25:20 PM



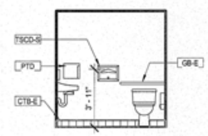
D2 STAFF 113 - NORTH
A251 1/4" = 1'-0"



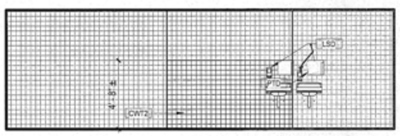
D3 STAFF 113 - EAST
A251 1/4" = 1'-0"



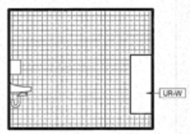
D4 STAFF 113 - SOUTH
A251 1/4" = 1'-0"



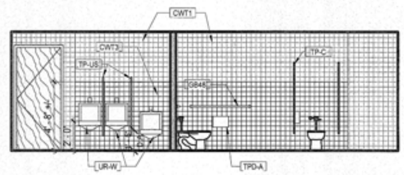
D5 STAFF 113 - WEST
A251 1/4" = 1'-0"



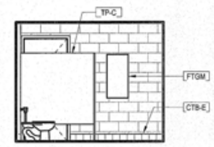
C1 BOYS 114 - NORTH
A251 1/4" = 1'-0"



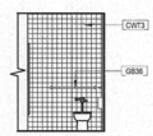
C2 BOYS 114 - EAST
A251 1/4" = 1'-0"



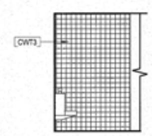
C4 BOYS 114 - SOUTH
A251 1/4" = 1'-0"



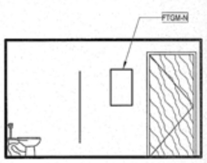
C5 BOYS 114 - WEST
A251 1/4" = 1'-0"



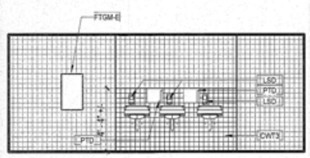
B4 BOYS 114 - ACCENT WALL 1
A251 1/4" = 1'-0"



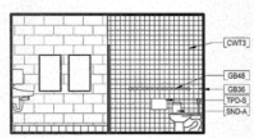
B5 BOYS 114 - ACCENT WALL 2
A251 1/4" = 1'-0"



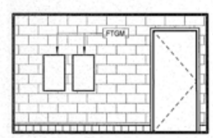
A1 GIRLS 123 - NORTH
A251 1/4" = 1'-0"



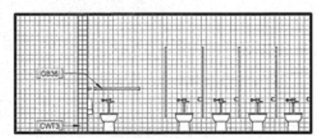
A2 GIRLS 123 - EAST
A251 1/4" = 1'-0"



A3 GIRLS 123 - SOUTH
A251 1/4" = 1'-0"



A4 GIRLS 123 - SOUTH
A251 1/4" = 1'-0"



A5 GIRLS 123 - WEST
A251 1/4" = 1'-0"

GENERAL NOTE - INTERIOR ELEVATION

A. ENSURE THAT ALL REQUIRED FIXTURE CLEARANCES AND OTHER REQUIREMENTS ARE MAINTAINED PURSUANT TO CBC CHAPTER 11B AND ANSI A117.1. SEE SHEET G003 FOR GENERAL GUIDANCE ON COMMON MOUNTING HEIGHTS.
B. PROVIDE BLOCKING/BACKING AS NECESSARY FOR MOUNTING OF WALL-MOUNTED CABINETS, FIXTURES AND EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS. COORDINATE THIS REQUIREMENT THROUGH ALL FLOOR PLANS, EQUIPMENT PLANS, AND INTERIOR ELEVATIONS.
C. PAINT ALL WALLS AND CEILINGS NOT RECEIVING CERAMIC TILE.

KEYNOTE LEGEND

CTB2	CERAMIC TILE COVED BASE, MATCH (E) BASE COLOR WHERE POSSIBLE. IF (E) COLOR IS NOT AVAILABLE PROVIDE "DALTILE 0166 ELEMENTAL TAN".
CTB-E	EXISTING CERAMIC TILE BASE TO REMAIN.
CWT1	EXISTING CERAMIC WALL TILE TO REMAIN.
CWT2	PROVIDE NEW ACCENT TILE ON TILE BACKER BOARD, ALIGN GROUT JOINTS WITH EXISTING WALL TILE. PROVIDE COVED BASE TILE AT FLOOR TO WALL JOINT. COLOR TO BE "DALTILE D141 GARDENT SPOT".
CWT3	CERAMIC WALL TILE, THIN SET ONTO NEW 5/8" TILE BACKER BOARD SUBSTRATE. COLOR TO BE "DALTILE D141 GARDENT SPOT". ALIGN JOINTS WITH EXISTING WALL TILE TO REMAIN
FTGM	FRAMED TEMPERED GLASS MIRROR. REMOVE & REINSTALL (E) AT SAME LOCATION AT HEIGHT PER G003.
FTGM-E	EXISTING FRAMED TEMPERED GLASS MIRROR TO REMAIN.
FTGM-N	FRAMED TEMPERED GLASS MIRROR.
GB36	36" x 1 1/2" DIA GRAB BAR; SEE DETAILS A1 & C4/A301FOR ANCHORAGE. CUT AND PATCH EXISTING WALL FINISHES AS REQUIRED FOR BLOCKING INSTALLATION."
GB48	48" x 1 1/2" DIA GRAB BAR; SEE DETAILS A1 & C4/A301 FOR ANCHORAGE.(REINSTALL FROM BOYS 114) CUT AND PATCH EXISTING WALL FINISHES AS REQUIRED FOR BLOCKING INSTALLATION."
GB-E	REINSTALL (E) 'L' SHAPED GRAB BAR, REORIENT AS APPROPRIATE. PROVIDE BLOCKING AS REQUIRED FOR ANCHORAGE, SEE DETAIL */G003. PATCH WALL FINISHES AS REQUIRED BY INSTALLATION OF NEW BLOCKING, WHERE OCCURS.
LSD	LIQUID SOAP DISPENSER, OWNER SUPPLIED, CONTRACTOR INSTALLED
PTD	PAPER TOWEL DISPENSER, OWNER SUPPLIED, CONTRACTOR INSTALLED
SND-A	SANITARY NAPKIN DISPOSAL, ACCESSIBLE
TP-C	TOILET PARTITION, COMPOSITE
TP-US	TOILET PARTITION COMPOSITE - URINAL SCREEN, 18" DEEP X 4' - 0" TALL AT +12" A.F.F. ATTACH TO WALL WITH FULL HEIGHT CONT. 'L' BRACKET BOTH SIDES OF PARTITION. PROVIDE BLOCKING IN WALL AS REQUIRED.
TPD-A	TOILET TISSUE DISPENSER, ACCESSIBLE. OWNER SUPPLIED, CONTRACTOR INSTALLED.
TPD-S	TOILET TISSUE DISPENSER, SURFACE MOUNTED. OWNER SUPPLIED, CONTRACTOR INSTALLED.
TSCD-S	TOILET SEAT COVER DISPENSER, SURFACE MOUNTED
UR-W	NEW WALL HUNG URINAL. PATCH WALL FINISHES WEHRE EXISTING STALL TYPE URINALS WERE REMOVED. NEW WALL FINISHES TO BE FLUSH WITH AND MATCH ADJACENT SURFACES. 15000

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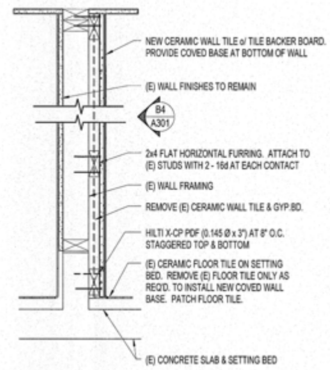
INTERIOR ELEVATIONS

A251

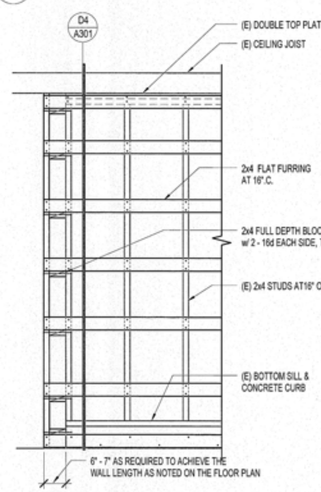
3/7/2016 1:25:19 PM

1 2 3 4 5

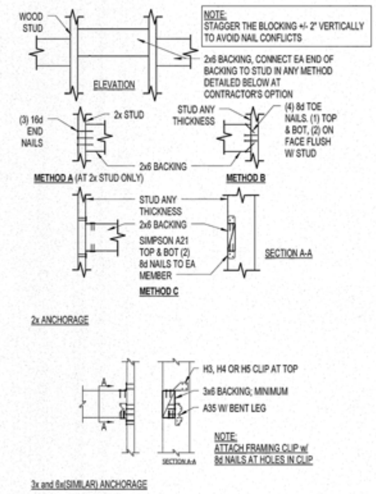
D C B A



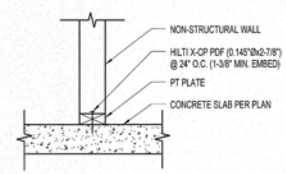
D4 WALL FURRING
A301 1 1/2" = 1'-0"



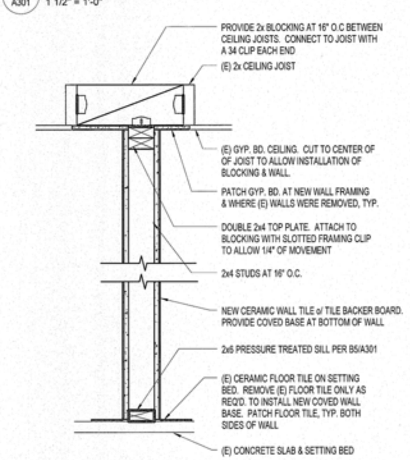
B4 WALL EXTENTION ELEVATION
A301 3/4" = 1'-0"



C5 BACKING ANCHORAGE
A301 1" = 1'-0"



B5 "SHOT" SILL PLATE
A301 1 1/2" = 1'-0"



A5 WALL SECTION
A301 1 1/2" = 1'-0"

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FRAMING DETAILS

A301

3/7/2016 1:25:11 PM

PLUMBING LEGEND

— —	SANITARY SEWER (SS)
- - - - -	SANITARY VENT (V)
— - —	COLD WATER (CW)
ABC	ABOVE CEILING
ADA	AMERICAN DISABILITIES ACT
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
BFF	BELOW FINISH FLOOR
BFG	BELOW FINISH GRADE
CI	CAST IRON
CO	CLEAN OUT
CW	COLD WATER
CWH	COLD WATER HEADER
(D)	DROP
(E)	EXISTING
FA	FROM ABOVE
FB	FROM BELOW
FCO	FLOOR CLEANOUT
FFE	FINISHED FLOOR ELEVATION
HW	HOT WATER
(N)	NEW
PC	PLUMBING CONTRACTOR
POC	POINT OF CONNECTION
TA	TO ABOVE
TB	TO BELOW
TP(C)	TRAP PRIMER (CONNECTION)
TYP	TYPICAL
UF	UNDER FLOOR
US	UNDER SLAB
V	VENT
VTR	VENT THRU ROOF
WCO	WALL CLEANOUT
SS	SANITARY SEWER

PLUMBING FIXTURE SCHEDULE

SYMBOL	MAKE	NUMBER	DESCRIPTION/TRIM	SUPPORT	MATERIAL
WC-1	KOHLER	K-3609 CIMARRON	FLUSH TANK WATER CLOSET, 16-1/2" HIGH, 1.28 GPF, BENEKE 523SS OPEN FRONT WHITE SEAT, SUPPLY AND STOP, FLUSH TANK LEVER HANDLE ON OPEN SIDE OF STALL. ACCESSIBLE.	FLOOR MOUNT	VIT. CHINA
WC-2	KOHLER	K-4405 HIGHLINE	FLUSH VALVE WATER CLOSET WITH ELONGATED BOWL, 17-1/8" HIGH, FURNISH: SLOAN ROYAL 111-1.28 MANUAL LOW CONSUMPTION FLUSH VALVE (1.28 GPF), BENEKE 523SS OPEN FRONT WHITE SEAT, SUPPLY AND STOP, FLUSH VALVE LEVER ON OPEN SIDE OF STALL. ACCESSIBLE.	FLOOR MOUNT	VIT. CHINA
WC-3	KOHLER	K-4406 WELLWORTH	FLUSH VALVE WATER CLOSET WITH ELONGATED BOWL, 15" HIGH, FURNISH: SLOAN ROYAL 111-1.28 MANUAL LOW CONSUMPTION FLUSH VALVE (1.28 GPF), BENEKE 523SS OPEN FRONT WHITE SEAT, SUPPLY AND STOP.	FLOOR MOUNT	VIT. CHINA
UR-1	KOHLER	K-4904-ET	WASHOUT URINAL, FURNISH: SLOAN ROYAL 186-0.5 MANUAL LOW CONSUMPTION FLUSH VALVE (0.5 GPF). SUPPLY AND STOP, COMMERCIAL CARRIER AND WALL CLEANOUT. MOUNTING HEIGHT PER ARCHITECTURAL PLANS. ACCESSIBLE.	WALL	VIT. CHINA
L-1	----	----	EXISTING LAVATORY, CHICAGO 3400-ABCP (0.5 GPM) SINGLE TEMPERATURE FAUCET. SET FAUCET CYCLE TIME AT 24 SECONDS MAXIMUM (0.2 GALLONS PER CYCLE).	WALL	VIT. CHINA
L-2	KOHLER	K-2005 KINGSTON	LAVATORY, 21-1/4"x18-1/2", FAUCET HOES ON 4" CENTERS,CHICAGO 3300-ABCP (0.5 GPM) METERING MIXING FAUCET WITH 327-XCP GRID STRAINER. SET FAUCET CYCLE TIME AT 24 SECONDS MAXIMUM (0.2 GALLONS PER CYCLE). PROVIDE P-TRAP, SUPPLIES, STOPS AND FLOOR-MOUNTED UPRIGHTS WITH CONCEALED ARM SUPPORTS. ACCESSIBLE.	WALL	VIT. CHINA
DF-1	HAWS	1119.14	DUAL HEIGHT DRINKING FOUNTAIN, 14 GA. TYPE 304 STAINLESS STEEL, ADJUSTABLE STAINLESS STEEL BACK PANELS, MULTIPLE MOUNTING POSITIONS, P-TRAPS. PROVIDE MODEL 6717 MOUNTING PLATE AND MODEL 6800 FLOOR-MOUNTED SUPPORT FRAME, ACCESSIBLE, MODEL SK-1 FOUNTAIN SKIRT.	WALL	STAINLESS STEEL
FD-1	ZURN	2415B-P	FLOOR DRAIN FOR CONCRETE FLOOR (SEE PLAN FOR SIZE), WITH TRAP PRIMER CONNECTIONS, CAST IRON P-TRAP. GRATE SHALL BE FLUSH W/SLAB. OPENINGS SHALL NOT EXCEED 1/4".	FLOOR	CAST IRON BODY WITH NB STRAINER
TP	PPP	P1-500	ADJUSTABLE TRAP PRIMER VALVE WITH UNION AND BALL	-	-

PLUMBING GENERAL NOTES

1. ALL FIXTURES WHITE UNLESS OTHERWISE NOTED.
2. PROVIDE FLOW CONTROL DEVICES ON LAVS AND SINKS PER T-24, PART 5, CCR.
3. ALL FIXTURES SHALL BE FURNISHED WITH STOP VALVES. VALVES MAY BE IN SUPPLY PIPES OR INTEGRAL WITH SUPPLY FITTINGS.
4. CONTRACTOR SHALL COORDINATE ALL PLUMBING LINE LOCATIONS WITH OTHER TRADES.
5. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF FIXTURES AND MOUNTING HEIGHTS.
6. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND PAY ALL COSTS INVOLVED.
7. INSULATE HOT & COLD WATER SUPPLY PIPES, STOPS, P-TRAP AND DRAIN LINE AT EACH ADA LAVATORY AND SINK WITH ANTI-MICROBIAL, SEAMLESS, VANDAL RESISTANT PROTECTIVE PIPE COVER "PROWRAP" OR EQUAL.
8. ALL PIPE PENETRATIONS THROUGH ROOF SHALL BE FLASHED SIMILAR TO VTR'S.
9. ALL SANITARY SEWER VENT PIPES SHALL CONNECT TO EXISTING THROUGH ROOF.
10. MINIMUM LOCAL CONNECTION SIZES SHALL BE MADE IN ACCORDANCE WITH THE SCHEDULE OF CONNECTIONS.
11. ALL WATER PIPING SIZED IN ACCORDANCE WITH 2013 C.P.C..
12. ALL WASTE WATER, FIRE AND STORM DRAIN PIPING SHALL BE STUBBED OUTSIDE BUILDING TO CONNECTION POINT SHOWN. SEE CIVIL DRAWINGS FOR CONTINUATION. CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO SITE PIPING.
13. COORDINATE ALL SAWCUTS AND TRENCHING WITH GENERAL CONTRACTOR.
14. PLUMBING CONTRACTOR SHALL VERIFY LOCATION AND ADEQUACY OF SIZE AND DEPTH OF EXISTING PLUMBING UTILITIES PRIOR TO COMMENCEMENT OF ANY WORK OR ORDERING ANY MATERIALS.
15. PROVIDE MATERIALS AND INSTALL IN ACCORDANCE WITH 2013 CALIFORNIA PLUMBING CODE AND LOCAL CODE REGULATIONS.
16. ALL WORK SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE, CITY AND LOCAL CODES AND ORDINANCES.
17. THE CONTRACTOR SHALL READ ALL OF THE GENERAL NOTES AND PLANS AND SHALL BE SATISFIED TO THEIR TRUE MEANING AND INTENT AND SHALL BE RESPONSIBLE FOR COMPLYING WITH EACH. WHEREVER TWO OR MORE SPECIFICATIONS MAY CONFLICT, THE MORE STRINGENT SPECIFICATION SHALL TAKE PRECEDENCE.
18. IT IS INTENDED THAT THESE PLANS REQUIRE ALL LABOR AND MATERIAL NECESSARY AND PROPER FOR THE WORK CONTEMPLATED AND THAT THIS WORK BE COMPLETED IN ACCORDANCE WITH THEIR TRUE INTENT AND PURPOSE. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY REGARDING ANY DISCREPANCIES OR AMBIGUITIES THAT MAY EXIST IN THE PLANS AND/OR SPECIFICATIONS PRIOR TO SUBMITTING BID. THE OWNER'S REPRESENTATIVE AND THE ENGINEER'S INTERPRETATION THEREOF SHALL BE CONCLUSIVE.
19. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE OWNERS REPRESENTATIVE.
20. CONTRACTOR SHALL INSTALL ALL PIPING SYSTEMS TO BEST SUIT FIELD CONDITIONS, AND COORDINATE WITH THE INSTALLATION WORK OF OTHER TRADES. THE DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED TO DETERMINE EXACT LOCATION OF PIPING. NOTIFY CONSTRUCTION MANAGER OF ANY DEVIATIONS FROM THESE DRAWINGS PRIOR TO FABRICATION AND/OR INSTALLATION.
21. LOCATIONS AND DIMENSIONS OF EQUIPMENT, PIPING, AND THEIR SUPPORTS ARE SHOWN DIAGRAMMATICALLY AND SHALL NOT BE SCALED TO DETERMINE EXACT LOCATION OF PIPING OR DUCTWORK. ACTUAL DIMENSIONS AND LOCATIONS ARE DEPENDENT ON MATERIAL SUPPLIED BY CONTRACTORS. CONTRACTORS SHALL PROVIDE OR DETERMINE DIMENSIONS AND PROVIDE LAYOUT DRAWINGS FOR COORDINATION WITH OTHER TRADES IN ACCORDANCE WITH THE SPECIFICATIONS.
22. CONTRACTOR SHALL REMOVE RUBBISH WASTE MATERIALS ON DAILY BASIS AND PROTECT AREAS FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE WHICH MAY OCCUR.
23. ALL VALVES AND OTHER PIPING SYSTEM SPECIALTIES SHALL BE LINE SIZE UNLESS OTHERWISE NOTED.
24. ALL PIPING IS TO BE FLUSHED AND TESTED IN ACCORDANCE WITH THE SPECIFICATIONS.
25. UNIONS, BUSHINGS, AND/OR REDUCING INSERTS, ETC. NOT SHOWN ON DRAWINGS BUT REQUIRED FOR INSTALLATION, SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
26. CONTRACTOR IS RESPONSIBLE FOR FIELD ROUTING DRAIN PIPING FROM EQUIPMENT, ETC. TO THE APPROPRIATE WASTE WATER SYSTEM.
27. FURNISH AND INSTALL ALL SYSTEMS, UNITS, EQUIPMENT, AND PARTS TO MEET OR EXCEED CURRENT APPLICABLE REQUIREMENTS FOR SEISMIC RESISTANCE SPECIFIED BY CODES, REGULATIONS, OR AGENCIES HAVING JURISDICTION. INCLUDE ALL SUPPORTS, ANCHORS, BRACES, AND OTHER RESTRAINING DEVICES REQUIRED. ALL SEISMIC RESTRAINTS SHALL MEET SEISMIC ZONE - REQUIREMENTS AND ARE THE RESPONSIBILITY OF THE CONTRACTOR.
28. ALL WORK SHOWN ANYWHERE ON THE DRAWINGS IS INCLUDED; SHOULD AN ITEM (SUCH AS A VALVE) BE SHOWN ON A DETAIL OR SCHEMATIC BUT NOT ON A PLAN VIEW OR VICE VERSA, IT MUST BE PROVIDED AS THOUGH IT WERE SHOWN IN ALL PLACES ON THE DRAWINGS.
29. PROVIDE ACCESS DOORS FOR ALL ITEMS CONCEALED WITHIN BUILDING STRUCTURE WHICH REQUIRE SERVICE. COORDINATE LOCATIONS OF ACCESS PANELS WITH OWNER PRIOR TO INSTALLATION.
30. CONTRACTOR SHALL FURNISH ALL NECESSARY STRUCTURES, INSERTS, SLEEVES, HANGING DEVICES, MISCELLANEOUS ANGLES, CHANNELS, UNISTRUT ETC. FOR INSTALLATION OF MECHANICAL AND PLUMBING EQUIPMENT, DUCTWORK AND PIPING, ETC. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR AND ALL BUILDING TRADES TO AVOID CONFLICTS AND TO MAINTAIN EQUIPMENT ACCESS AND SERVICEABILITY.
31. CONTRACTOR TO COORDINATE HANGING OF ALL EQUIPMENT AND MATERIALS SO THAT ALL HANGING LOADS ARE DISTRIBUTED TO NOT EXCEED THE MAXIMUM HANGING CAPACITY OF 25 PSF.
32. PIPING INSULATION IS NOT SHOWN ON DRAWINGS FOR CLARITY. SEE SPECIFICATIONS FOR INSULATION REQUIREMENTS.
33. PLUMBING CONTRACTOR SHALL SAWCUT AND PATCH EXISTING SLAB AS REQUIRED FOR INSTALLATION OF THE PIPING SYSTEM.
34. THE WATER CLOSET CONTROLS (FLUSH HANDLE) MUST BE LOCATED ON THE CLEAR/WIDE SIDE OF THE ACCESSIBLE WATER CLOSETS.

PLUMBING FIXTURE CONNECTION SCHEDULE

FIXTURE	SYMBOL	WASTE			COLD WATER		HOT WATER	
		BRANCH	OUTLET	VENT	BRANCH	OUTLET	BRANCH	OUTLET
WATER CLOSET (FLUSH TANK)	WC	4"	4"	2"	1/2"	1/2"	—	—
WATER CLOSET (FLUSH VALVE)	WC	4"	4"	2"	1-1/2"	1"	—	—
LAVATORY	L	2"	1-1/4"	1-1/2"	1/2"	3/8"	—	—
URINAL	UR	2"	2"	1-1/2"	3/4"	3/4"	—	—

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REGISTERED PROFESSIONAL ENGINEER SEAN R. TICHENOR M31176 EXP. 12/31/17 MECHANICAL STATE OF CALIFORNIA

PLOT DATE: 2/24/2016

COLUSA UNIFIED SCHOOL DISTRICT
EGLING MS RELOCATABLE CLASSROOMS AND HARDCOURT PAVING

813 WEBSTER STREET
COLUSA, CA

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

61598-009 PROJECT TRACKING NUMBER | 02-114730 APPLICATION NUMBER | 6-9 FILE NUMBER

AC MT FLS [illegible] SS [illegible]
DATE 3-9-16

#	Date	Revision

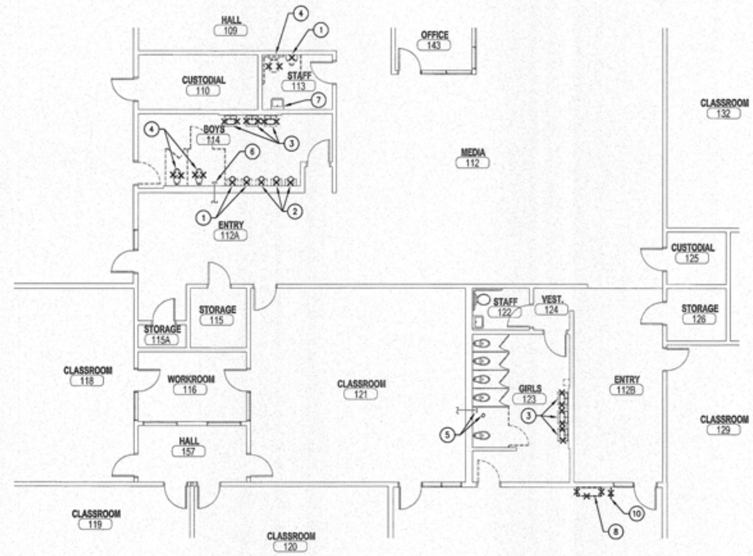
CONSTRUCTION DOCUMENTS

NEXUS PROJECT #: 15125
CHECKED BY:
DRAWN BY: DB
DATE: 3/9/16

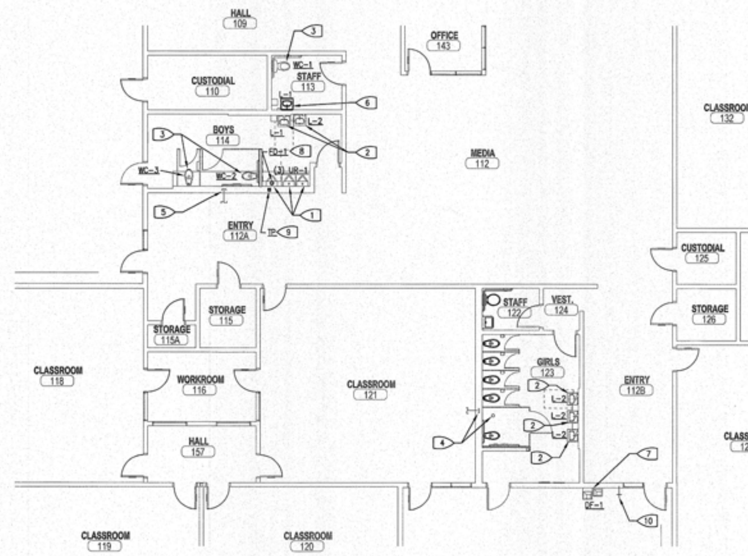
SYMBOLS, NOTES & SCHEDULES

P001

9/15/2016 2:12:39 PM



1 P101 PARTIAL FLOOR PLAN - DEMOLITION
SCALE: 1/8" = 1'-0"



2 P101 PARTIAL FLOOR PLAN - PLUMBING
SCALE: 1/8" = 1'-0"

DEMOLITION KEYED NOTES:

1. EXISTING URINAL TO BE REMOVED, CAP PIPING BEHIND FINISHED SURFACES.
2. EXISTING URINAL TO BE REMOVED, PREPARE PIPING FOR NEW URINAL.
3. EXISTING LAVATORY TO BE REMOVED, PREPARE PIPING FOR NEW LAVATORY.
4. EXISTING WATER CLOSET TO BE REMOVED, PREPARE PIPING FOR NEW WATER CLOSET LOCATION.
5. EXISTING WATER CLOSET WASTE AND WATER ROUGH-INS. REMOVE EXPOSED PIPING AND FITTINGS.
6. EXISTING URINAL WATER ROUGH-IN. REMOVE EXPOSED PIPING AND FITTINGS.
7. REMOVE EXISTING LAVATORY FAUCET.
8. REMOVE EXISTING DRINKING FOUNTAIN. PREPARE PIPING FOR NEW INSTALLATION.
9. REMOVE AND RELOCATE EXISTING HOSE BIBB.

KEYED NOTES:

1. REPLACE EXISTING URINAL WITH NEW URINAL. CONNECT EXISTING WASTE, VENT AND COLD WATER PIPING. SEE ARCHITECTURAL PLANS FOR NEW MOUNTING HEIGHT.
2. REPLACE EXISTING LAVATORY. EXTEND EXISTING WASTE, VENT AND COLD WATER PIPING. PROVIDE NEW TRIM PER PLUMBING FIXTURE SCHEDULE. SEE ARCHITECTURAL PLANS FOR NEW MOUNTING HEIGHT.
3. REPLACE EXISTING WATER CLOSET WITH NEW WATER CLOSET. EXTEND EXISTING WASTE, VENT AND COLD WATER PIPING, MAKE FINAL CONNECTION.
4. EXISTING WATER CLOSET WASTE AND WATER ROUGH-INS, CAP PIPING BEHIND FINISHED SURFACES.
5. EXISTING URINAL WATER ROUGH-IN, CAP PIPING BEHIND FINISHED SURFACE.
6. INSTALL NEW FAUCET & STRAINER.
7. PROVIDE NEW 1-1/2" W, 1-1/2" V, 3/4" CW. CONNECT TO EXISTING PIPING.
8. CONNECT NEW 2" WASTE & 2" VENT TO EXISTING. LOCATE NEW FLOOR DRAIN DIRECTLY OVER EXISTING DRAIN FROM REMOVED FLOOR URINAL. PROVIDE NEW SEWER EXTENSION AS REQUIRED FOR NEW FLOOR DRAIN.
9. CONNECT ½" CW TO EXISTING CW PIPE AND ROUTE TO TRAP PRIMER. ROUTE ½" CW U.S. TO TRAP PRIMER.
10. RELOCATED EXISTING HOSE BIBB. ROUTE NEW 3/4" COLD WATER PIPE TO EXISTING AND CONNECT.

SHEET NOTES:

1. EXISTING URINALS ARE FLOOR MOUNT. NEW URINALS ARE WALL MOUNT @ ACCESSIBLE HEIGHT. EXTEND SEWER, WATER AND VENT PIPING TO NEW URINAL LOCATIONS.

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AC MT FLS SS
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CONSTRUCTION DOCUMENTS

NEXUS PROJECT #: 15125
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PARTIAL FLOOR PLANS - PLUMBING

P101

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SYMBOLS LIST

SOME OF THESE SYMBOLS SHOWN MAY NOT BE USED ON THIS PROJECT

POWER DISTRIBUTION

- SWITCHBOARD, DISTRIBUTION BOARD, SUBSTATION OR MOTOR CONTROL CENTER, FLOOR MOUNTED.
- PANELBOARD, 277/480V, SURFACE MOUNTED ON WALL.
- PANELBOARD, 277/480V, FLUSH MOUNTED IN WALL.
- PANELBOARD, 120/208V, SURFACE MOUNTED ON WALL.
- PANELBOARD, 120/208V, FLUSH MOUNTED IN WALL.
- DRY-TYPE STEP-DOWN TRANSFORMER, FLOOR MOUNTED 30,480-120/208V, UON.
- ELECTRIC MOTOR, NIEC. MAKE POWER CONNECTIONS ONLY AS NOTED ON PLANS.
- INDOOR EXHAUST FAN MOTOR, SINGLE PHASE. MAKE POWER CONNECTIONS TO INCLUDE JUNCTION BOX MOUNTED MANUAL MOTOR STARTER AND DISCONNECT ADJACENT TO FAN WITH 2 #12 CONDUCTORS PLUS GROUND IN 1/2" FLEXIBLE CONDUIT BETWEEN STARTER AND MOTOR.
- INDOOR FAN POWERED VAV BOX MOTOR, SINGLE PHASE, MOUNTED FROM STRUCTURE ABOVE, NIEC. MAKE POWER CONNECTIONS TO INCLUDE JUNCTION BOX MOUNTED MANUAL MOTOR STARTER AND DISCONNECT ADJACENT TO VAV BOX WITH 2 #12 CONDUCTORS PLUS GROUND IN 1/2" FLEXIBLE CONDUIT BETWEEN STARTER AND MOTOR.
- PULLBOX OR HANDHOLE, SIZE AND TYPE AS NOTED ON PLANS.
- SAFETY DISCONNECT SWITCH, 3 POLE, UON. ADJACENT NUMBER INDICATES FUSE SIZE WHEN APPLICABLE. LABELING CONVENTION AS FOLLOWS:
  - A: 30A, NON-FUSED — AF: 30A, FUSED
  - B: 60A, NON-FUSED — BF: 60A, FUSED
  - C: 100A, NON-FUSED — CF: 100A, FUSED
  - D: 200A, NON-FUSED — DF: 200A, FUSED
  - E: 400A, NON-FUSED — EF: 400A, FUSED
  - F: 600A, NON-FUSED — FF: 600A, FUSED
  - G: 800A, NON-FUSED — GF: 800A, FUSED
- MAGNETIC MOTOR STARTER. ADJACENT NUMBER INDICATES NEMA SIZE OF STARTER.
- COMBINATION MAGNETIC MOTOR STARTER/SAFETY DISCONNECT SWITCH. ADJACENT NUMBER INDICATES NEMA SIZE OF STARTER.
- PACKAGE MOTOR CONTROLLER OR STARTER FURNISHED AND INSTALLED UNDER ANOTHER DIVISION WITH EQUIPMENT CONTROLLED. PROVIDE SINGLE-POINT POWER SERVICE CONNECTION UNDER THIS DIVISION AS NOTED ON PLANS.
- VARIABLE FREQUENCY DRIVE FURNISHED AND INSTALLED UNDER ANOTHER DIVISION. PROVIDE POWER SERVICE CONNECTION UNDER THIS DIVISION AS NOTED ON PLANS.
- VARIABLE FREQUENCY DRIVE WITH INTEGRAL DISCONNECT FURNISHED AND INSTALLED UNDER ANOTHER DIVISION. PROVIDE POWER SERVICE CONNECTION UNDER THIS DIVISION AS NOTED ON PLANS.
- DRIVEN GROUND ROD.
- DRIVEN GROUND ROD IN GROUND WELL WITH COVER.
- ELECTRICAL VEHICLE CHARGING STATION, WALL MOUNTED.
- ELECTRICAL VEHICLE CHARGING STATION, PEDESTAL MOUNTED.
- BRANCH CIRCUIT POWER DISTRIBUTION BOX OF MANUFACTURED WIRING SYSTEM WITH MODULAR CONNECTORS FOR INTERFACE TO BRANCH CIRCUIT MODULAR CABLE SETS AND CABLE OR CONDUIT HOMERUN. BOX MOUNTED FROM STRUCTURE ABOVE IN ACCESSIBLE CEILING SPACE. ADJACENT NUMBERS INDICATE CIRCUITS AVAILABLE AT BOX.
- DEVICE BRANCH CIRCUIT POWER DISTRIBUTION BOX FOR INTERFACE BETWEEN MULTI-CIRCUIT HOMERUN AND MC CABLE BRANCH CIRCUITING. MINIMUM BOX SIZE IS 10"X10"X4" DEEP. BOX MOUNTED FROM STRUCTURE ABOVE IN ACCESSIBLE CEILING SPACE. ADJACENT NUMBERS INDICATE CIRCUITS AVAILABLE AT BOX.
- INDICATES CABLE TERMINATION LUGS AT EQUIPMENT BUS.
- BOLTED PRESSURE OR HIGH PRESSURE CONTACT SWITCH.
- FUSED SWITCH.
- MEDIUM-VOLTAGE LOAD INTERRUPTER SWITCH.
- GROUP MOUNTED MOLDED CASE CIRCUIT BREAKER.
- INDIVIDUALLY FIXED MOUNTED INSULATED-CASE OR POWER CIRCUIT BREAKER.
- INDIVIDUALLY DRAW-OUT MOUNTED INSULATED-CASE OR POWER CIRCUIT BREAKER.
- MEDIUM-VOLTAGE, INDIVIDUALLY DRAW-OUT MOUNTED VACUUM CIRCUIT BREAKER.
- INDICATES INTEGRAL GROUND FAULT RELAY WHEN ASSOCIATED WITH CIRCUIT BREAKER.
- INDICATES COMMUNICATION NETWORK WIRING WHEN ASSOCIATED WITH CIRCUIT BREAKER.
- INDICATES ELECTRICALLY OPERATED WHEN ASSOCIATED WITH CIRCUIT BREAKER.
- INDICATES SHUNT TRIP WHEN ASSOCIATED WITH OVERCURRENT PROTECTION DEVICES.
- INDICATES KIRK-KEY INTERLOCK WHEN ASSOCIATED WITH OVERCURRENT PROTECTION DEVICES. ADJACENT NUMBERS CORRESPOND WITH DEVICE INTERLOCK.
- GROUND FAULT RELAY WITH SHUNT TRIP.
- GROUND FAULT ALARM, NO SHUNT TRIP.
- UTILITY METER.
- TRANSFORMER.
- CONNECTION TO GROUND.
- CURRENT TRANSFORMERS.
- POTENTIAL TRANSFORMERS.
- AUTOMATIC OR MANUAL TRANSFER SWITCH.
- AUTOMATIC TRANSFER/BY-PASS ISOLATION SWITCH. (NORM. EM.)
- EMERGENCY GENERATOR.
- BATTERIES.
- NEUTRAL SERVICE DISCONNECT LINK.
- SURGE PROTECTION DEVICE, 'SPD'.
- CONTROL CONTACTOR.
- NORMALLY OPEN CONTACT.
- NORMALLY CLOSED CONTACT.
- DIGITAL METERING UNIT.
- WATT HOUR METER.
- GROUND BUS.
- NEUTRAL BUS.

WIRING DEVICES

- JUNCTION BOX, WALL MOUNTED, +18" UON.
- JUNCTION BOX, MOUNTED IN FLUSH FLOOR BOX.
- JUNCTION BOX, MOUNTED FLUSH IN CEILING.
- JUNCTION BOX, SURFACE OR PENDANT MOUNTED TO STRUCTURE IN ACCESSIBLE CEILING SPACE.
- JUNCTION BOX, MOUNTED ON CONDUIT STANCHION FLOOR PENETRATION, +12" UON.
- SINGLE-PLEX CONVENIENCE RECEPTACLE DEVICE, WALL MOUNTED, +18" UON.
- DUPLEX CONVENIENCE RECEPTACLE DEVICE, WALL MOUNTED, +18" UON.
- DOUBLE DUPLEX CONVENIENCE RECEPTACLE DEVICE, WALL MOUNTED, +18" UON.
- DENOTES WALL MOUNTED OVER COUNTER, 6" ABOVE BACK SPLASH UON.
- 'G' DENOTES GROUND FAULT CURRENT INTERRUPTER (GFCI), 'A' DENOTES ARC FAULT CURRENT INTERRUPTER (AFCI).
- DUPLEX RECEPTACLE, WEATHER RESISTANT WITH GROUND FAULT CURRENT INTERRUPTER 'GFCI', WITH WEATHERPROOF COVER, WALL MOUNTED, +18" UON.
- SHADING DENOTES SPLIT WIRED DEVICE.
- SHADING DENOTES DEVICE CONNECTED TO EMERGENCY POWER CIRCUIT.
- SHADING DENOTES CONTROLLED RECEPTACLE.
- SHADING DENOTES SPECIALTY DEVICE, TYPE AS NOTED ON PLANS.
- DUPLEX CONVENIENCE RECEPTACLE DEVICE, MOUNTED IN FLUSH FLOOR BOX.
- DOUBLE DUPLEX CONVENIENCE RECEPTACLE DEVICE, MOUNTED IN FLUSH FLOOR BOX.
- DUPLEX CONVENIENCE RECEPTACLE DEVICE, MOUNTED IN FIRE-RATED POKE-THRU FLOOR FITTING.
- DOUBLE DUPLEX CONVENIENCE RECEPTACLE DEVICE, MOUNTED IN FIRE-RATED POKE-THRU FLOOR FITTING.
- DUPLEX CONVENIENCE RECEPTACLE DEVICE, MOUNTED FLUSH IN CEILING.
- DOUBLE DUPLEX CONVENIENCE RECEPTACLE DEVICE, MOUNTED FLUSH IN CEILING.
- DUPLEX CONVENIENCE RECEPTACLE DEVICE, MOUNTED ON CONDUIT STANCHION FLOOR PENETRATION, +12" UON.
- DUPLEX CONVENIENCE RECEPTACLE DEVICE, MOUNTED IN FLOOR MONUMENT.
- COMBINATION POWER/TELECOMMUNICATION DEVICE, MOUNTED IN FLUSH FLOOR BOX. TYPE AS NOTED ON PLANS OR IN SPECIFICATIONS.
- DUPLEX CONVENIENCE RECEPTACLE DEVICE, CORD OR REEL HUNG FROM STRUCTURE ABOVE. TYPE AS NOTED ON PLANS.
- ELECTRIFIED FURNITURE PARTITION POWER FEED, WALL MOUNTED, +18" UON. CONSISTS OF 4 11/16" SQ. X 2 1/8" DEEP. JUNCTION BOX, SINGLE GANG RING, AND STAINLESS STEEL COVER PLATE WITH KO TO ACCEPT FURNITURE WHIP.
- ELECTRIFIED FURNITURE PARTITION COMBINATION POWER/TELECOMMUNICATION FEEDS, MOUNTED IN FLUSH FLOOR BOX WITH KO'S IN COVER TO ACCEPT FURNITURE WHIPS.
- ELECTRIFIED FURNITURE PARTITION POWER FEED, MOUNTED IN FIRE-RATED POKE-THRU FLOOR FITTING WITH KO IN COVER TO ACCEPT FURNITURE WHIP.
- POWER/TELECOMMUNICATION POLE, MOUNTED TO EXTEND FROM FLOOR TO CEILING. TYPE AS NOTED ON PLANS.
- SINGLE-POLE, SINGLE-THROW SWITCH, WALL MOUNTED, +42" UON.
- THREE-WAY SWITCH, WALL MOUNTED, +42" UON.
- FOUR-WAY SWITCH, WALL MOUNTED, +42" UON.
- KEY-OPERATED, SINGLE-POLE, SINGLE-THROW SWITCH, WALL MOUNTED, +42" UON.
- PILOT LIGHT, SINGLE-POLE, SINGLE-THROW SWITCH, WALL MOUNTED, +42" UON.
- MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD ELEMENT, MOUNTED ADJACENT TO MOTOR.
- MANUAL MOTOR STARTER/DISCONNECT SWITCH, MOUNTED ADJACENT TO MOTOR.
- SWITCH FURNISHED UNDER ANOTHER DIVISION, BUT INSTALLED AND WIRED UNDER THIS DIVISION, WALL MOUNTED, +42" UON.
- WALL BOX DIMMER SWITCH, +42" UON. SIZED PER CONNECTED LOAD ON PLANS AND FURNISHED FOR LAMP SOURCE SERVED. PROVIDED FOR DE-RATING WHEN INSTALLED GANGED LOCATIONS.
- SINGLE-POLE, TIMER CONTROLLED SWITCH, WALL MOUNTED, +42" UON.
- SINGLE-POLE, SINGLE-THROW, EXPLOSION PROOF SWITCH, WALL MOUNTED, +42" UON.
- LINE-VOLTAGE MULTIPLE GANG SWITCHING STATION, WALL MOUNTED, 42" UON. REFER TO PLANS FOR DEVICE QUANTITIES AND TYPES.
- LOW-VOLTAGE LIGHTING CONTROL SWITCHING STATION, WALL MOUNTED, +42" UON. REFER TO PLANS AND SCHEDULES FOR DEVICE QUANTITIES AND RELAYS CONTROLLED
- LIGHTING CONTROL OCCUPANCY SENSOR WITH DUAL LEVEL SWITCHING, WALL MOUNTED, +42" UON.
- LIGHTING CONTROL OCCUPANCY SENSOR WITH SINGLE LEVEL SWITCHING, WALL MOUNTED, +42" UON.
- LIGHTING CONTROL OCCUPANCY SENSOR, CEILING MOUNTED FOR AREA COVERAGE.
- PRESET SCENE CONTROL LIGHTING STATION WITH DIMMING CAPABILITIES, WALL MOUNTED, +42" UON. REFER TO PLANS AND SCHEDULES FOR CONTROL.
- EGRESS LIGHTING TRANSFER DEVICE
- CONTROL STATION, WALL MOUNTED, +42" UON.
- PHOTOELECTRIC CELL
- DAYLIGHT SENSOR

AUDIO/VISUAL

- LOUDSPEAKER, WALL MOUNTED, 12" BELOW CEILING OR +90" AFF, WHICHEVER IS LOWER.
- LOUDSPEAKER, CEILING MOUNTED IN FLUSH BACK BOX. ADJACENT 70V OR 100V INDICATES DISTRIBUTED SAME VOLTAGE SPEAKER.
- PROGRAM SPEAKER, CEILING OR WALL MOUNTED.
- AUDIO AND VIDEO INTERFACE PLATE, WALL MOUNTED, +18" UON OR AS OTHERWISE NOTED.
- AUDIO AND VIDEO INTERFACE PLATE, MOUNTED IN FLUSH FLOOR BOX.
- AUDIO AND VIDEO CABLE DISPLAY PLATE, WALL MOUNTED, 4 11/16" BOX WITH 1 1/4" CONDUIT TO ACCESSIBLE CEILING. HEIGHT AS NOTED
- AUDIO AND VIDEO CABLE AT PROJECTOR THROUGH SUPPORT, DIRECT CONNECT TO PROJECTOR
- FLAT PANEL DISPLAY, WALL MOUNTED AT 60" AFF OR AS NOTED
- SIGNAGE DISPLAY, WALL MOUNTED AT 84" AFF OR AS NOTED
- PROJECTOR WITH PROJECTOR MOUNT, 1.5"-2" NPT COLUMN AND CEILING SUPPORT HARDWARE
- AUDIO AND VIDEO CONTROL PANEL, FLUSH WALL MOUNTED AT 42" UON IN BACK BOX
- AUDIO AND VIDEO CONTROL PANEL, MOUNTED ON CASEWORK IN SURFACE BOX OR WITH STAND
- AUDIO AND VIDEO CONTROL PANEL, RACK MOUNTED
- VIDEO CONFERENCING CAMERA, WALL MOUNTED @ 84" UON
- VIDEO CONFERENCING CAMERA, CEILING MOUNTED IN CAMERA DOME
- PROJECTION SCREEN, SIZE AND TYPE AS NOTED
- PROJECTION SCREEN 3 WAY POWER SWITCH, WALL MOUNTED, +42" UON.
- VOLUME CONTROLLER, WALL MOUNTED, +42" UON.
- MICROPHONE JACK, WALL MOUNTED, +18" UON.
- MICROPHONE JACK, MOUNTED IN FLUSH FLOOR BOX.
- INTERCOM STATION, WALL MOUNTED, +42" UON. 'M' DENOTES MASTER STATION.
- INTERCOM STATION, MOUNTED ON DESK. 'M' DENOTES MASTER STATION
- INDICATING CLOCK WITH CLOCK OUTLET, WALL MOUNTED, 12" BELOW CEILING OR +96" AFF, WHICHEVER IS LOWER.
- COMBINATION LOUDSPEAKER/INDICATING CLOCK WITH CLOCK OUTLET, WALL MOUNTED IN COMBINATION BACK BOX, 12" BELOW CEILING OR +96" AFF, WHICHEVER IS LOWER.
- TELEVISION JACK, WALL MOUNTED +18" UON OR AS NOTED
- TELEVISION JACK, MOUNTED IN FLUSH FLOOR BOX.

LIGHTING

- LIGHT FIXTURE, RECESSED IN CEILING.
- LIGHT FIXTURE, SURFACE OR PENDANT MOUNTED.
- LIGHT FIXTURE, WALL MOUNTED.
- STRIP LIGHT FIXTURE, SURFACE OR PENDANT MOUNTED.
- STRIP LIGHT FIXTURE, SURFACE MOUNTED IN ARCHITECTURAL CEILING COVE.
- STRIP LIGHT FIXTURE, SURFACE MOUNTED VERTICALLY ON WALL OR IN COVE.
- DOWNLIGHT FIXTURE, RECESSED IN CEILING.
- DOWNLIGHT/INDUSTRIAL FIXTURE, SURFACE OR PENDANT MOUNTED.
- SINGLE DIRECTIONAL, WALLWASH LIGHT FIXTURE, RECESSED IN CEILING.
- DUAL DIRECTIONAL, WALLWASH LIGHT FIXTURE, RECESSED IN CEILING.
- SINGLE DIRECTIONAL, WALLWASH LIGHT FIXTURE, SURFACE OR PENDANT MOUNTED.
- DUAL DIRECTIONAL, WALLWASH LIGHT FIXTURE, SURFACE OR PENDANT MOUNTED.
- ADJUSTABLE ACCENT LIGHT FIXTURE, RECESSED IN CEILING.
- ADJUSTABLE ACCENT LIGHT FIXTURE, SURFACE OR PENDANT MOUNTED.
- LINEAR WALLWASH LIGHT FIXTURE, RECESSED IN CEILING.
- LINEAR WALLWASH LIGHT FIXTURE, SURFACE OR PENDANT MOUNTED.
- LINEAR, MULTI-HEAD, ADJUSTABLE ACCENT LIGHT FIXTURES, RECESSED IN CEILING.
- SCONCE LIGHT FIXTURE, WALL MOUNTED.
- DECORATIVE CHANDELIER OR BOWL TYPE FIXTURE, PENDANT MOUNTED.
- LINEAR TRACK SYSTEM WITH PLUG-IN ADJUSTABLE LIGHT FIXTURE HEADS. TRACK SHALL BE EITHER RECESSED, SURFACE OR PENDANT MOUNTED TO CEILING AS NOTED IN FIXTURE SCHEDULE.
- EXIT SIGN LIGHT FIXTURE, CEILING OR WALL MOUNTED WITH DIRECTIONAL ARROWS AS NOTED ON PLANS. WORD 'EXIT' TO BE LOCATED IN SHADED FACE(S).
- COMBO EXIT SIGN AND EGRESS LIGHTING FIXTURE, CEILING OR WALL MOUNTED WITH ARROWS AS NOTED ON PLANS OR IN FIXTURE SCHEDULE.
- EMERGENCY SELF-POWERED BATTERY PACK WITH LIGHT FIXTURE HEADS AS NOTED ON PLANS OR IN FIXTURE SCHEDULE.
- HALF SHADING OF ANY FIXTURE INDICATES LIFE SAFETY/EGRESS LIGHTING.
- FULL SHADING OF ANY FIXTURE INDICATES STANDBY/CRITICAL LIGHTING.

EXTERIOR:

- SINGLE-HEAD AREA LIGHT FIXTURE WITH BRACKET ARM AND POLE, MOUNTED TO CONCRETE BASE.
- TWO-HEAD AREA LIGHT FIXTURES WITH BRACKET ARMS AND POLE, MOUNTED TO CONCRETE BASE.
- SINGLE-HEAD AREA POST-TOP LIGHT FIXTURE WITH POLE, MOUNTED TO CONCRETE BASE.
- AREA LIGHT FIXTURE, SURFACE OR RECESSED MOUNTED TO WALL.
- LIGHT FIXTURE BOLLARD, MOUNTED TO CONCRETE BASE.
- GROUND WELL MOUNTED FLUSH IN FINISHED GRADE.
- FLOODLIGHT FIXTURE, STANCHION MOUNTED ABOVE GRADE.
- LINEAR SIGN LIGHT FIXTURE, STANCHION MOUNTED ABOVE GRADE.
- STEPLIGHT FIXTURE, WALL MOUNTED.

RACEWAYS

- CONDUIT RUN EXPOSED ON WALL OR CEILING.
- CONDUIT RUN CONCEALED IN SLAB, UNDER SLAB OR UNDERGROUND.
- CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING.
- CONDUIT HOMERUN, CONTINUOUS RUN TO PANEL OR EQUIPMENT CABINET.
- FLEXIBLE METALLIC CONDUIT.
- CONDUIT TURNED UP
- CONDUIT TURNED DOWN.
- CONDUIT CAPPED OR STUBBED WITH INSULATED BUSHINGS.
- CONDUIT SLEEVE, WITH INSULATING BUSHINGS.
- CROSSMARKS ON BRANCH CIRCUIT CONDUIT RUNS INDICATE THE QUANTITY OF CONDUCTORS AS FOLLOWS (GROUND CONDUCTORS ARE NOT NOTED, BUT SHOULD BE INCLUDED IN EVERY CONDUIT WITH POWER CONDUCTORS):
  1. NO CROSSMARKS INDICATES TWO #12 AWG CONDUCTORS, UON.
  2. THREE TO SIX CROSSMARKS INDICATES THE QUANTITY OF #12 AWG CONDUCTORS, UON.
  3. SEVEN OR MORE CROSSMARKS INDICATES THE QUANTITY OF #10 AWG CONDUCTORS, UON.
- MULTI-OUTLET TWO PIECE SURFACE RACEWAY; TYPE, DEVICE SPACING AND MOUNTING AS NOTED ON PLANS.
- TWO PIECE SURFACE METAL RACEWAY, MOUNTED AS NOTED IN PLANS.
- CABLE TRAY, CABLE RUNWAY OR LADDER RACK SUSPENDED FROM STRUCTURE ABOVE. REFER TO PLANS FOR SIZE AND MOUNTING.

CONVENTIONS

- NUMBERED NOTE, APPLIES TO ALL DRAWINGS.
- NUMBERED SHEET NOTE, APPLIES TO DRAWING CONTAINING NOTES ONLY.
- OVERCURRENT PROTECTIVE DEVICE SPACE IDENTIFICATION TAG. REFERS TO LOCATION OF PROTECTIVE OR CONTROL DEVICE WITHIN SWITCHBOARDS, DISTRIBUTION BOARDS, MOTOR CONTROL CENTERS, ETC.
- (NAME) EQUIPMENT IDENTIFICATION TAG: ITEM FURNISHED AND INSTALLED UNDER ANOTHER SECTION AND WIRED UNDER THIS SECTION.
- (P3) CABLE AND/OR RACEWAY TAG, FUNCTION AS NOTED BELOW:
  P = POWER T = TELEPHONE C = COMMUNICATION
- (2004) FEEDER SIZE. REFER TO FEEDER SCHEDULE.
- DETAIL REFERENCE: A / EXX.XX — SHEET NUMBER, DETAIL DESIGNATION
- 2-F3 FIXTURE IDENTIFICATION TAG: FIXTURE TYPE, QUANTITY

TELECOMMUNICATION

- W: TELECOMMUNICATION DEVICE, WALL MOUNTED AT +42".
- TELECOMMUNICATION DEVICE, WALL MOUNTED, +18" UON.
- TELECOMMUNICATION DEVICE, WALL MOUNTED OVER COUNTER, 6" ABOVE BACK SPLASH, UON.
- TELECOMMUNICATION DEVICE, MOUNTED IN FLUSH FLOOR BOX.
- TELECOMMUNICATION DEVICE, MOUNTED IN FIRE-RATED POKE-THRU FLOOR FITTING.
- TELECOMMUNICATION DEVICE, MOUNTED IN FLOOR MONUMENT.
- TELECOMMUNICATION DEVICE, MOUNTED ABOVE ACCESSIBLE CEILING IN SURFACE MOUNT BOX.
- COMBINATION POWER/TELECOMMUNICATION DEVICES, MOUNTED IN FLUSH FLOOR BOX. TYPE AS NOTED ON PLANS OR IN SPECIFICATIONS.
- COMBINATION POWER/TELECOMMUNICATION DEVICES, MOUNTED IN FIRE-RATED POKE-THRU FLOOR FITTINGS. TYPE AS NOTED ON PLANS OR IN SPECIFICATIONS.
- ELECTRIFIED FURNITURE PARTITION TELECOMMUNICATION CABLE FEED, WALL MOUNTED, +18" UON. CONSISTS OF 4 11/16" SQ. X 2 1/8" DEEP. JUNCTION BOX, SINGLE GANG RING, AND STAINLESS STEEL COVERPLATE WITH 1 1/4" KO AND GROMMET. WRAP EXPOSED CABLE WITH SPIRAL WRAP.
- ELECTRIFIED FURNITURE PARTITION COMBINATION POWER/TELECOMMUNICATION FEEDS, MOUNTED IN FLUSH FLOOR BOX WITH KO'S IN COVERS TO ACCEPT FURNITURE WHIPS. TELECOMMUNICATIONS WHIP SHALL BE 1 1/4" MINIMUM.
- ELECTRIFIED FURNITURE PARTITION TELECOMMUNICATION CABLE FEEDS, MOUNTED IN FIRE-RATED POKE-THRU THRU FLOOR FITTING WITH 1 1/4" KO'S IN COVER TO ACCEPT FURNITURE WHIPS.
- WAP: WIRELESS ACCESS POINT, WALL MOUNTED, 8" BFC UON.
- WAP: WIRELESS ACCESS POINT, CEILING MOUNTED.
- #D/#V: QUANTITY OF DATA AND/OR VOICE TELECOMMUNICATIONS DEVICES.

SECURITY

- ALARM MONITORING CONTACT, MOUNTED AS NOTED ON PLANS.
- ELECTRIC MORTISE DOOR LOCK, NIEC, BUT WIRED UNDER THIS DIVISION.
- ELECTRIC DOOR STRIKE, NIEC, BUT WIRED UNDER THIS DIVISION.
- ELECTROMAGNETIC DOOR LOCK, NIEC, BUT WIRED UNDER THIS DIVISION.
- ELECTRIFIED PANIC HARDWARE, NIEC, BUT WIRED UNDER THIS DIVISION.
- MECHANICAL PANIC HARDWARE, NIEC, BUT WIRED UNDER THIS DIVISION.
- REQUEST-TO-EXIT SWITCH, NIEC, FURNISH WITH DOOR HARDWARE AND WIRED UNDER THIS DIVISION.
- POWER TRANSFER HINGE, NIEC.
- DOOR RELEASE MOTION SENSOR, WALL OR CEILING MOUNTED ABOVE DOOR, UON.
- DURESS STATION, MOUNTED AS NOTED ON PLANS.
- AREA MOTION SENSOR, CEILING MOUNTED, UON.
- AREA MOTION SENSOR, WALL MOUNTED, +84" UON.
- GLASS BREAK DETECTOR, CEILING MOUNTED, UON.
- CARD READER CONTROLLER, WALL MOUNTED, +36" UON.
- KEY PAD CONTROLLER, WALL MOUNTED, +42" UON.
- REMOTE MOUNTED POWER SUPPLY FOR LOW-VOLTAGE EQUIPMENT CONNECTIONS.
- FIXED POSITION CCTV CAMERA, MOUNTED AS NOTED ON PLANS.
- PAN/TILT/ZOOM (PTZ) CCTV CAMERA, MOUNTED AS NOTED ON PLANS.
- CCTV MONITOR.

ABBREVIATIONS

A	AMPERES	LSCP	LIFE SAFETY CONTROL PANEL
AFC	ABOVE FINISHED CEILING	LCP	LIGHTING CONTROL PANEL
AFI	ARC FAULT CIRCUIT INTERRUPTER	MBGB	MAIN BUILDING GROUND BUS
AF	AMPERE OVERCURRENT FRAME SIZE (WHEN APPLIED TO CIRCUIT BREAKERS) OR AMPERE FUSE SIZE (WHEN APPLIED TO FUSES)	MCB	MAIN CIRCUIT BREAKER
		MCC	MOTOR CONTROL CENTER
		MLO	MAIN LUGS ONLY
AFF	ABOVE FINISHED FLOOR	MT	EMPTY
AIC	ASYMMETRIC INTERRUPTING CURRENT	MTC	EMPTY CONDUIT
AL	ALUMINUM	MTGB	MAIN TELECOM GROUND BUS
AT	AMPERE OVERCURRENT TRIP (WHEN APPLIED TO CIRCUIT BREAKERS)	MTS	MANUAL TRANSFER SWITCH
ATS	AUTOMATIC TRANSFER SWITCH	MW	MICROWAVE
BAS	BUILDING AUTOMATION SYSTEM	(N)	NEW
BFC	BELOW FINISHED CEILING	NC	NORMALLY CLOSED
BOC	BACK OF CURB	NF	NON-FUSED
BPS	BOLTED PRESSURE CONTACT SWITCH	NIEC	NOT IN ELECTRICAL CONTRACT
C	CONDUIT	NO	NORMALLY OPEN
CCTV	CLOSED CIRCUIT TELEVISION	NTS	NOT TO SCALE
CL	CURRENT LIMITING CIRCUIT BREAKER OR FUSE	OC	ON CENTER
		OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
CP	CIRCULATION PUMP	PDU	POWER DISTRIBUTION UNIT
CKT	CIRCUIT	PIV	POST INDICATING VALVE
CT	CURRENT TRANSFORMER	PNL	PANEL
CU	COPPER	PT	POTENTIAL TRANSFORMER
DF	DRINKING FOUNTAIN	PVC	POLYVINYL CHLORIDE
DW	DISH WASHER	RF	REFRIGERATOR
(E)	EXISTING TO REMAIN	(R)	EXISTING TO BE REMOVED
EC	ELECTRICAL CONTRACTOR	(RL)	RELOCATED
EF	EXHAUST FAN	(RR)	REMOVE AND RELOCATE
EP	EXPLOSION PROOF	RSC	RIGID STEEL CONDUIT
EPO	EMERGENCY POWER OFF	SAD	SEE ARCHITECTURAL DRAWINGS
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM	SPD	SURGE PROTECTION DEVICE
EMT	ELECTRICAL METALLIC TUBING	TC	TIME CLOCK
ETD	EMERGENCY TRANSFER DEVICE	TGB	TELECOMMUNICATIONS GROUND BUS
EVSE	ELECTRIC VEHICLE SUPPLY EQUIPMENT	TP	TWISTED-PAIR
EVCS	ELECTRIC VEHICLE CHARGING STATION	TX	TRANSFORMER
EWH	ELECTRIC WATER HEATER	TYP	TYPICAL
F	FUSED	UON	UNLESS OTHERWISE NOTED
(F)	FUTURE	UPS	UNINTERRUPTIBLE POWER SUPPLY
FACP	FIRE ALARM CONTROL PANEL	UR	UNDERCOUNTER REFRIGERATOR
FAJB	FIRE ALARM JUNCTION BOX	V	VOLTS
FFCP	FIREMAN'S FAN CONTROL PANEL	VA	VOLTS-AMPS
FLA	FULL LOAD AMPERES	VAV	VARIABLE AIR VOLUME
FMC	FLEXIBLE METAL CONDUIT	VFD	VARIABLE FREQUENCY DRIVE
FSD	FIRE/SMOKE DAMPER	VM	VENDING MACHINE
FSEC	FOOD SERVICE EQUIPMENT CONTRACTOR	W	WATTS
FRAP	FIREMAN'S REMOTE ANNUNCIATOR PANEL	WAP	WIRELESS ACCESS POINT
		WH	WATER HEATER
G	GROUND	WP	WEATHERPROOF
GB	GROUND BUS	2SP	TWO SPEED
GD	GARBAGE DISPOSAL	1Ø	1 PHASE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	3Ø	3 PHASE
GND	GROUND	1P	1 POLE
GRAP	GENERATOR REMOTE ANNUNCIATOR PANEL	2P	2 POLE
		3P	3 POLE
GWH	GAS WATER HEATER	3W	3 WIRE
HPC	HIGH PRESSURE CONTACT SWITCH	4W	4 WIRE
HVAC	HEATING, VENTING AND AIR CONDITIONING		
IMC	INTERMEDIATE METAL CONDUIT		
IWH	INSTANTANEOUS OR POINT OF USE WATER HEATER		
JB	JUNCTION BOX		

DRAWING INDEX

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

61598-009	02-114730	6-9
PROJECT TRACKING NUMBER	APPLICATION NUMBER	FILE NUMBER

AC — FLS — SS —
DATE 3-9-16

#	Date	Revision

CONSTRUCTION DOCUMENTS

NEXUS PROJECT #: 15125
CHECKED BY: LWK
DRAWN BY: TEE
DATE: 3/9/2016

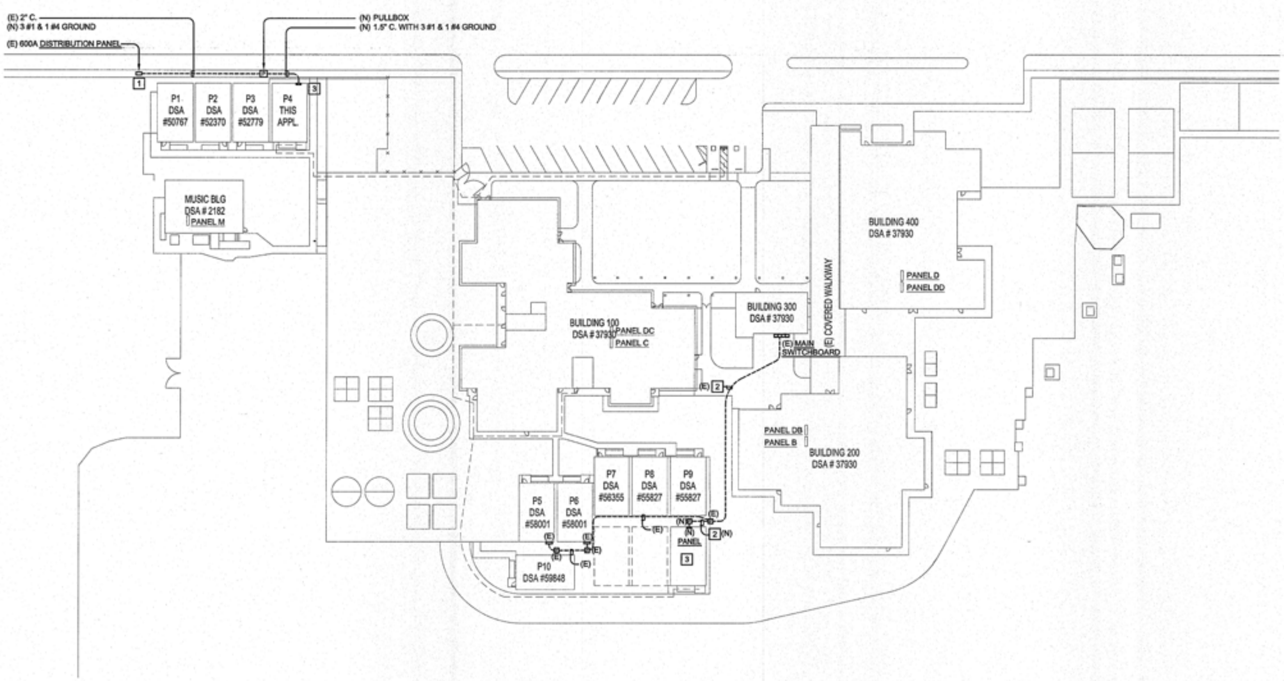
SYMBOLS LIST & DRAWING INDEX

E001

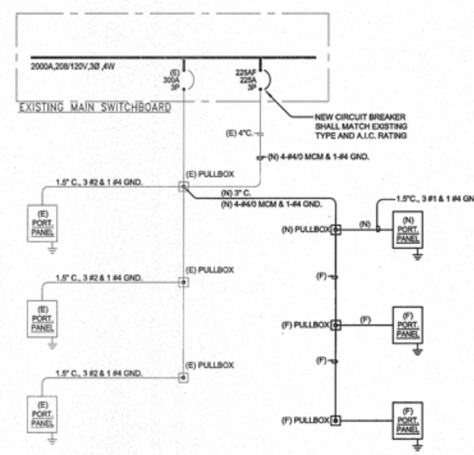
2/24/2016 10:04:58 AM

NUMBERED SHEET NOTES

1. CONNECT NEW FEEDER TO EXISTING 125/2 CIRCUIT BREAKER. PROVIDE NEW ENGRAVED NAMEPLATE INDICATING LOAD SERVED.
2. REFER TO B/E101 FOR FEEDER SIZING.
3. PROVIDE CONDUIT SLEEVES FOR TELECOM AND SIGNAL SYSTEMS AS INDICATED ON FIRE ALARM SERIES DRAWINGS.



A ELECTRICAL IMPROVEMENT SITE PLAN
E101
SCALE: 1" = 40'-0"



B PARTIAL ONE LINE DIAGRAM
E101
NTS

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CONSTRUCTION DOCUMENTS

NEXUS PROJECT #:	15125
CHECKED BY:	LWK
DRAWN BY:	TEE
DATE:	3/9/2016

ELECTRICAL IMPROVEMENT SITE PLAN & ONE LINE DIAGRAM
E101

2/24/2016 10:04:58 AM

SYMBOLS LIST

SOME OF THESE SYMBOLS SHOWN MAY NOT BE USED ON THIS PROJECT

FIRE ALARM

- SMOKE DETECTOR INITIATING DEVICE, CEILING MOUNTED ON FLUSH OR SURFACE JUNCTION BOX.
- SMOKE DETECTOR INITIATING DEVICE, STRUCTURE MOUNTED ABOVE SUSPENDED CEILING TO SURFACE JUNCTION BOX.
- SMOKE DETECTOR INITIATING DEVICE, DUCT-MOUNTED TYPE WITH SAMPLING TUBE, LOCATED AT SUPPLY AIR FANS 2000cfm AND LARGER.
- SMOKE DETECTOR INITIATING DEVICE, IN-DUCT MOUNTED TYPE AT, DUCTED FSD'S.
- BT BR PROJECTED BEAM SMOKE DETECTOR INITIATING DEVICES TO INCLUDE TRANSMITTER, RECEIVER AND REMOTE INDICATOR STATION, WALL OR PENDANT MOUNTED IN FLUSH OR SURFACE JUNCTION BOX AS NOTED ON PLANS. BT=BEAM TRANSMITTER, BR=BEAM RECEIVER.
- HEAT DETECTOR INITIATING DEVICE, CEILING MOUNTED ON FLUSH OR SURFACE JUNCTION BOX.
- HEAT DETECTOR INITIATING DEVICE, STRUCTURE MOUNTED ABOVE SUSPENDED CEILING TO SURFACE JUNCTION BOX.
- MANUAL PULL STATION INITIATING DEVICE, WALL MOUNTED AT +48" UON.
- MOTOR OPERATED FIRE/SMOKE DAMPER 'FSD', NIEC. SYMBOL DENOTES INTERFACE FOR POWER, CONTROL AND POSSIBLY MONITORING CONNECTIONS FROM FIRE ALARM SYSTEM. ALSO, INCLUDES LOCAL POWER DISCONNECT MEANS. 'ES' BY FSD INDICATES END SWITCH CONNECTIONS FOR MONITORING BOTH 'OPEN' AND 'CLOSED' POSITIONS. ADJACENT NUMBER INDICATES QUANTITY OF ACTUATORS AND END SWITCH GROUPS REQUIRING CONNECTION PER FSD, IF MORE THAN 1.
- SPRINKLER SYSTEM WATER FLOW SWITCH, NIEC. SYMBOL DENOTES INTERFACE FOR MONITORING CONNECTION FROM FIRE ALARM SYSTEM.
- SPRINKLER SYSTEM TAMPER SWITCH, NIEC. SYMBOL DENOTES INTERFACE FOR MONITORING CONNECTION FROM FIRE ALARM SYSTEM.
- SPRINKLER SYSTEM POST INDICATING VALVE 'PIV', NIEC. SYMBOL DENOTES INTERFACE FOR MONITORING CONNECTION FROM FIRE ALARM SYSTEM. INCLUDE A REMOTE MOUNTED ADDRESSABLE MONITORING MODULE AT PIV.
- REMOTE MOUNTED SINGLE INPUT, ADDRESSABLE, MONITORING MODULE FOR INITIATING CIRCUIT CONNECTION.
- REMOTE MOUNTED DUAL INPUT, ADDRESSABLE, MONITORING MODULE FOR INITIATING CIRCUIT CONNECTION.
- REMOTE MOUNTED PROGRAMMABLE CONTROL RELAY MODULE FOR ADDRESSABLE CONTROL.
- DIFFERENTIAL PRESSURE SWITCH, NIEC. SYMBOLS DENOTES INTERFACE FOR MONITORING CONNECTION FROM FIRE ALARM SYSTEM TO ANNUNCIATE FAN OPERATION. INCLUDE A REMOTE MOUNTED ADDRESSABLE MONITORING MODULE AT EACH LOCATION.
- END-OF-LINE RESISTOR.
- AIR PRESSURE SWITCH FOR PRE ACTION SPRINKLER SYSTEMS, NIEC. SYMBOL DENOTES INTERFACE FOR MONITORING CONNECTION FROM FIRE ALARM SYSTEM. INCLUDE A REMOTE MOUNTED ADDRESSABLE MONITORING MODULE AT EACH LOCATION.
- MAGNETIC TYPE DOOR HOLD OPEN/RELEASE DEVICE, WALL MOUNTED, NIEC. SYMBOL DENOTES INTERFACE FOR POWER AND CONTROL CONNECTIONS FROM FIRE ALARM SYSTEM.
- AUDIBLE NOTIFICATION APPLIANCE, WALL MOUNTED, 6" BELOW CEILING OR +80" AFF, WHICHEVER IS LOWER.
- VISIBLE NOTIFICATION APPLIANCE, WALL MOUNTED, 6" BELOW CEILING OR +80" AFF, WHICHEVER IS LOWER. NUMBER ASSOCIATED WITH 'cd' REPRESENTS CANDELA RATING OF STROBE.
- AUDIBLE/VISIBLE NOTIFICATION APPLIANCE, WALL MOUNTED, 6" BELOW CEILING OR +80" AFF, WHICHEVER IS LOWER. NUMBER ASSOCIATED WITH 'cd' REPRESENTS CANDELA RATING OF STROBE.
- AUDIBLE NOTIFICATION APPLIANCE, CEILING MOUNTED IN FLUSH BACKBOX.
- VISIBLE NOTIFICATION APPLIANCE, CEILING MOUNTED IN FLUSH BACK BOX. NUMBER ASSOCIATED WITH 'cd' REPRESENTS CANDELA RATING OF STROBE.
- AUDIBLE/VISIBLE NOTIFICATION APPLIANCE, CEILING MOUNTED IN FLUSH BACK BOX. NUMBER ASSOCIATED WITH 'cd' REPRESENTS CANDELA RATING OF STROBE.
- FIREMAN'S TELEPHONE JACK, WALL MOUNTED, +42" UON.

RACEWAYS

- CONDUIT RUN EXPOSED ON WALL OR CEILING.
- CONDUIT RUN CONCEALED IN SLAB, UNDER SLAB OR UNDERGROUND.
- CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING.
- CONDUIT HOMERUN, CONTINUOUS RUN TO PANEL OR EQUIPMENT CABINET.
- FLEXIBLE METALLIC CONDUIT.
- CONDUIT TURNED UP.
- CONDUIT TURNED DOWN.
- CONDUIT CAPPED OR STUBBED WITH INSULATED BUSHINGS.
- CONDUIT SLEEVE, WITH INSULATING BUSHINGS.
- CROSSMARKS ON BRANCH CIRCUIT CONDUIT RUNS INDICATE THE QUANTITY OF CONDUCTORS AS FOLLOWS (GROUND CONDUCTORS ARE NOT NOTED, BUT SHOULD BE INCLUDED IN EVERY CONDUIT WITH POWER CONDUCTORS):
  1. NO CROSSMARKS INDICATES TWO #12 AWG CONDUCTORS, UON.
  2. THREE TO SIX CROSSMARKS INDICATES THE QUANTITY OF #12 AWG CONDUCTORS, UON.
  3. SEVEN OR MORE CROSSMARKS INDICATES THE QUANTITY OF #10 AWG CONDUCTORS, UON.
- MULTI-OUTLET TWO PIECE SURFACE RACEWAY; TYPE, DEVICE SPACING AND MOUNTING AS NOTED ON PLANS.
- TWO PIECE SURFACE METAL RACEWAY, MOUNTED AS NOTED IN PLANS.
- CABLE TRAY, CABLE RUNWAY OR LADDER RACK SUSPENDED FROM STRUCTURE ABOVE. REFER TO PLANS FOR SIZE AND MOUNTING.

CONVENTIONS

- NUMBERED NOTE, APPLIES TO ALL DRAWINGS.
- NUMBERED SHEET NOTE, APPLIES TO DRAWING CONTAINING NOTES ONLY.
- OVERCURRENT PROTECTIVE DEVICE SPACE IDENTIFICATION TAG. REFERS TO LOCATION OF PROTECTIVE OR CONTROL DEVICE WITHIN SWITCHBOARDS, DISTRIBUTION BOARDS, MOTOR CONTROL CENTERS, ETC.
- NAME — EQUIPMENT IDENTIFICATION TAG: ITEM FURNISHED AND INSTALLED UNDER ANOTHER SECTION AND WIRED UNDER THIS SECTION.
- P2 — CABLE AND/OR RACEWAY TAG, FUNCTION AS NOTED BELOW:
  P = POWER T = TELEPHONE C = COMMUNICATION
- 200A — FEEDER SIZE. REFER TO FEEDER SCHEDULE.
- DETAIL REFERENCE: A / EXX.XX — SHEET NUMBER, DETAIL DESIGNATION
- FIXTURE IDENTIFICATION TAG: 2-F3 — FIXTURE TYPE, QUANTITY

GENERAL PROJECT NOTES

1. ALL FIRE ALARM WIRING SHALL BE SUPERVISED.
2. WIRING SHALL NOT BE LOOPED THROUGH DEVICE TERMINALS. WIRE MUST BE CUT FOR IN AND OUT CIRCUITS.
3. T-TAPPING OF WIRE IS PROHIBITED EXCEPT FOR CLASS "B"/STYLE "4" SIGNALING LINE CIRCUIT (SLC) ADDRESSABLE LOOP WIRING.
4. ALL WIRING SHALL BE CONCEALED. CABLE CAN BE RUN FREE AIR AND SUPPORTED WITH J-HOOKS EVERY 48" WHEN ABOVE ACCESSIBLE CEILING. CABLE MUST BE IN CONDUIT IN NON ACCESSIBLE CEILING OR SURFACE RACEWAY WHEN EXPOSED.
5. THE FIRE ALARM CONTROL PANEL AND POWER EXTENDER PANELS ARE NOT TO BE USED AS TERMINAL CABINETS. ALL WIRING INTO PANELS SHALL BE LANDED ONTO APPROPRIATE TERMINALS ONLY. NO SPLICING OF THROUGH WIRE WILL BE ALLOWED IN PANELS.
6. ALL FIRE ALARM WIRING MUST BE FREE OF OPENS, SHORTS, AND GROUNDS.
7. ALL WIRING MUST ENTER AT THE TOP OR SIDE OF THE FACP, BOOSTER PANELS AND AUDIO AMPLIFIER PANELS WHERE CONDUIT KNOCKOUTS ARE PROVIDED.
8. FIRE ALARM DRAWINGS ARE SCHEMATIC IN NATURE ONLY. CONTRACTOR TO ROUTE CONDUIT AND SURFACE RACEWAY AS FIELD CONDITIONS INDICATE.
9. PENETRATION TO FIRE RATED ASSEMBLIES SHALL BE PROTECTED WITH U.L. LISTED PENETRATION FIRE-STOP ASSEMBLIES IN ACCORDANCE WITH CBC, CHAPTER 7.
10. UPON COMPLETION OF INSTALLATION AND PRE-TEST OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE AUTHORITY HAVING JURISDICTION AS REQUIRED BY THE AHJ.
11. THE FIRE ALARM SYSTEM IS POWER LIMITED.
12. THE FIRE ALARM SYSTEM INSTALLATION SHALL BE IN COMPLIANCE OF APPLICABLE CODES.
13. WHERE EXISTING TO BE REMOVED FIRE ALARM SYSTEM DEVICES ARE SHOWN, THE CONTRACTOR SHALL ALSO REMOVE ALL CONDUCTORS SERVING THE DEVICE. ABANDON ALL UNUSED DEVICE BOXES AND CONDUITS. ABANDONED CONDUITS AND BOXES CAN BE RE-USED TO PULL NEW CONDUCTORS THROUGH FOR SERVICE TO DEVICES DOWNSTREAM. DO NOT SPLICE IN ABANDONED DEVICE BOXES.
14. SMOKE DETECTORS SHALL NOT BE LOCATED WITHIN 3 FT. ON ANY SUPPLY AIR REGISTER, AND SHALL NOT BE PLACED WHERE RETURN AIR MOVEMENT SHALL EXCEED THE MANUFACTURERS RECOMMENDATIONS AS TO EFFECT THE OPERATION OF THE SMOKE DETECTOR.
15. ALL DEVICES LOCATED IN A GYMNASIUM SHALL BE EQUIPPED WITH WIRE GUARDS.
16. ALL INITIATION CIRCUIT TO BE CLASS "B"
    ALL SLC CIRCUITS TO BE CLASS "B" STYLE "4"
    ALL NOTIFICATION CIRCUITS TO BE CLASS "B"
17. PRIOR TO COMMENCING TRENCHING OPERATIONS, CONTACT THE UTILITIES UNDERGROUND SERVICE ALERT BUREAU AND DETERMINE THE EXACT LOCATION OF ANY EXISTING UTILITY LINES WHICH MIGHT BE DAMAGED DURING THE INSTALLATION OF THIS WORK. HAND TRENCH, BACKFILL AND COMPACT IN AREAS OF EXISTING UTILITY LINES TO AVOID DAMAGE TO SAME.
18. SIZE PULLBOXES TO MINIMUM CODE REQUIREMENTS. OBTAIN THE ARCHITECTS APPROVAL OF ANY PULLBOX(ES) ADDED TO FACILITATE THE INSTALLATION OF CONDUITS SHOWN ON THE PLANS.
19. CONDUIT ROUTING (WHERE SHOWN) IS ESSENTIALLY DIAGRAMMATIC. CONTRACTOR SHALL LAYOUT RUNS TO SUIT FILED CONDITIONS AND THE COORDINATION REQUIREMENTS OF OTHER TRADES.
20. ALL CONDUIT AND RACEWAY PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE SEALED TO MAINTAIN THE FIRE SEPARATION RATING.
21. ALL CONDUITS CROSSING EXPANSION JOINTS SHALL BE PROVIDED WITH EXPANSION/DEFLECTION FITTINGS.
22. INSTALL A POLYETHYLENE PULLING ROPE IN ALL EMPTY CONDUITS.
23. ALL 120VAC POWER FOR THE FIRE ALARM PANELS SHALL BE PROVIDED A DEDICATED 20A BREAKER.

CODE INFORMATION

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE REGULATIONS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

STATE OF CALIFORNIA CODE OF REGULATIONS (CCR) 2013 TITLE 24 CALIFORNIA BUILDING CODE

PART 2, 2013 CALIFORNIA BUILDING CODE (CBC), 2012 IBC.
PART 3, 2013 CALIFORNIA ELECTRICAL CODE (CEC), 2011 NEC
PART 4, 2013 CALIFORNIA MECHANICAL CODE (CMC) 2012 UMC
PART 5, 2013 CALIFORNIA PLUMBING CODE (CPC) 2012 UPC
PART 9, 2013 CALIFORNIA FIRE CODE (CFC) BASED ON 2012 IFC

2013 NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) LIFE SAFETY CODE, NFPA 13, 72, 80, 90A, 99, AND 101

PROJECT DESCRIPTION

ADD FIRE SYSTEM TO NEW PORTABLE CLASSROOM.

ARM HEAD END UNIT AND DEVICES.

FIRE ALARM SYSTEM: CLASS B
IDC: CLASS B
SLC CIRCUIT: CLASS B
NOTIFICATION CIRCUIT: CLASS B

ABBREVIATIONS

A	AMPERES
AFC	ABOVE FINISHED CEILING
AFI	ARC FAULT CIRCUIT INTERRUPTER
AF	AMPERE OVERCURRENT FRAME SIZE (WHEN APPLIED TO CIRCUIT BREAKERS) OR AMPERE FUSE SIZE (WHEN APPLIED TO FUSES)
AFF	ABOVE FINISHED FLOOR
AIC	ASYMMETRIC INTERRUPTING CURRENT
AL	ALUMINUM
AT	AMPERE OVERCURRENT TRIP (WHEN APPLIED TO CIRCUIT BREAKERS)
ATS	AUTOMATIC TRANSFER SWITCH
BAS	BUILDING AUTOMATION SYSTEM
BFC	BELOW FINISHED CEILING
BOC	BACK OF CURB
BPS	BOLTED PRESSURE CONTACT SWITCH
C	CONDUIT
CCTV	CLOSED CIRCUIT TELEVISION
CL	CURRENT LIMITING CIRCUIT BREAKER OR FUSE
CP	CIRCULATION PUMP
CKT	CIRCUIT
CT	CURRENT TRANSFORMER
CU	COPPER
DF	DRINKING FOUNTAIN
DW	DISH WASHER
(E)	EXISTING TO REMAIN
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EP	EXPLOSION PROOF
EPO	EMERGENCY POWER OFF
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM
EMT	ELECTRICAL METALLIC TUBING
ETD	EMERGENCY TRANSFER DEVICE
EVCS	ELECTRIC VEHICLE CHARGING STATION
EWH	ELECTRIC WATER HEATER
F	FUSED
(F)	FUTURE
FACP	FIRE ALARM CONTROL PANEL
FAJB	FIRE ALARM JUNCTION BOX
FFCP	FIREMAN'S FAN CONTROL PANEL
FLA	FULL LOAD AMPERES
FMC	FLEXIBLE METAL CONDUIT
FSD	FIRE/SMOKE DAMPER
FSEC	FOOD SERVICE EQUIPMENT CONTRACTOR
FRAP	FIREMAN'S REMOTE ANNUNCIATOR PANEL
G	GROUND
GB	GROUND BUS
GD	GARBAGE DISPOSAL
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
GRAP	GENERATOR REMOTE ANNUNCIATOR PANEL
GWH	GAS WATER HEATER
HPC	HIGH PRESSURE CONTACT SWITCH
HVAC	HEATING, VENTING AND AIR CONDITIONING
IMC	INTERMEDIATE METAL CONDUIT
IWH	INSTANTANEOUS OR POINT OF USE WATER HEATER
JB	JUNCTION BOX
LSCP	LIFE SAFETY CONTROL PANEL
LCP	LIGHTING CONTROL PANEL
MBGB	MAIN BUILDING GROUND BUS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MLO	MAIN LUGS ONLY
MT	EMPTY
MTC	EMPTY CONDUIT
MTGB	MAIN TELECOM GROUND BUS
MTS	MANUAL TRANSFER SWITCH
MW	MICROWAVE
(N)	NEW
NC	NORMALLY CLOSED
NF	NON-FUSED
NIEC	NOT IN ELECTRICAL CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
PDU	POWER DISTRIBUTION UNIT
PIV	POST INDICATING VALVE
PNL	PANEL
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
RF	REFRIGERATOR
(R)	EXISTING TO BE REMOVED
(RL)	RELOCATED
(RR)	REMOVE AND RELOCATE
RSC	RIGID STEEL CONDUIT
SAD	SEE ARCHITECTURAL DRAWINGS
SPD	SURGE PROTECTION DEVICE
TC	TIME CLOCK
TGB	TELECOMMUNICATIONS GROUND BUS
TP	TWISTED-PAIR
TX	TRANSFORMER
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UR	UNDERCOUNTER REFRIGERATOR
V	VOLTS
VA	VOLTS-AMPS
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
VM	VENDING MACHINE
W	WATTS
WAP	WIRELESS ACCESS POINT
WH	WATER HEATER
WP	WEATHERPROOF
2SP	TWO SPEED
1Ø	1 PHASE
3Ø	3 PHASE
1P	1 POLE
2P	2 POLE
3P	3 POLE
3W	3 WIRE
4W	4 WIRE

DRAWING INDEX

DWG. NO.	TITLE
FA001	FIRE ALARM SYMBOLS LIST & DRAWING INDEX
FA002	LOAD CALCULATION SCHEDULES
FA101	PARTIAL FIRE ALARM SITE PLAN - EXISTING & NEW
FA204 FA205	PORTABLES FIRE ALARM PLAN - EXISTING & NEW BLDG. 100 ENLARGED FIRE ALARM PLANS - EXISTING & NEW
FA301	FIRE ALARM RISER DIAGRAM - EXISTING & NEW
FA401 FA402	FIRE ALARM DETAILS OPERATING MATRIX & DETAILS
FA501	DETAILS

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No. 11347
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ELECTRICAL
STATE OF CALIFORNIA

COLUSA UNIFIED SCHOOL DISTRICT
EGLING MS RELOCATABLE CLASSROOMS AND HARDCOURT PAVING
813 WEBSTER STREET
COLUSA, CA

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

PROJECT TRACKING NUMBER	APPLICATION NUMBER	FILE NUMBER
61598-009	02-114730	6-9

AC MT FLS SS
DATE 3-9-16

#	Date	Revision

CONSTRUCTION DOCUMENTS

NEXUS PROJECT #: 15125
CHECKED BY: LWK
DRAWN BY: TEE
DATE: 3/9/2016

SYMBOLS LIST & DRAWING INDEX

FA001

2/24/2016 10:04:59 AM

1 2 3 4 5

BP-1 Calculations

Power Supply: BP1 — Location: Bldg. 300, ADMIN

Notification Circuit Loading

DEVICE	cd	LOAD/EA	NAC1	NAC2	NAC3	NAC4	NAC	NAC	TOTAL
SPEAKER STROBE	15	71.00	8						568.00
SPEAKER STROBE	30	96.00	1						96.00
SPEAKER STROBE	75	153.00							
SPEAKER STROBE	110	195.00							
STROBE	15	71.00	1						71.00
STROBE	30	96.00							
STROBE	75	152.00							
STROBE	110	195.00							
Notification Appliance Circuit Loading:			735.00						735.00
Spare/Future Capacity - 20%:			0.20						147.00

Notification Circuit Voltage Drop

CIRCUIT ID	CIRCUIT CURRENT (AMPS)	DISTANCE (FEET)	AWG	%VD	VD
NAC1	0.74	150	#12	1.52%	0.36
NAC2		200	#12		
NAC3		300	#12		
NAC4			#12		
NAC			#12		
NAC			#12		

Battery Calculation

	Super.	Alarm
Totals Panel Current (mA):		882.00
Total Panel Current (Amps):		0.88
Hours in Standby:	24	
Standby Amp Hours:		
Minutes in Alarm:		30
Total Alarm Amp Hours:		0.44
Minumum Battery Capacity Required:		0.44 AH

Provide a minimum 3 AH capacity battery

Panel Loading

Panel Capacity (Amps): 6.00
Panel Load (Amps): 0.88

ALL LOADS ARE EXPRESSED AS mA UNLESS OTHERWISE NOTED

BP-2 Calculations

Fire Alarm Control Panel: Booster Panel with SLC Expander — Location: Building 400

Signaling Line Circuit Loading

Qty	Device	DEVICE Super.	DEVICE Alarm	SUBTOTAL Super.	SUBTOTAL Alarm
1	SILENT KNIGHT 5895XL	40.00	160.00	40.00	160.00
1	SLC EXPANDER, 5815XL	0.55	1.25	0.55	1.25
2	MANUAL PULL STATION	0.30	0.30	0.60	0.60
15	PHOTOELECTRIC SMOKE DETECTOR*	0.30	0.55	4.50	8.25
14	HEAT DETECTOR*	0.30	0.55	4.20	7.70
1	MONITORING MODULE	0.30	0.30	0.30	0.30
	DUAL MONITORING MODULE				
	PHOTOELECTRIC DUCT DETECTOR W/RELAY				
4	BEAM DETECTOR	2.00	8.50	8.00	34.00
	Signaling Line Circuit Load			58.15	212.10
	Spare/Future Capacity - 20%: 0.20				42.42

Notification Circuit Loading

DEVICE	cd	LOAD/EA	NAC1	NAC2	NAC3	NAC4	NAC5	NAC6	TOTAL
SPEAKER STROBE	15	71.00	5	6					781.00
SPEAKER STROBE	30	96.00		2					192.00
SPEAKER STROBE	75	153.00	2	1					459.00
SPEAKER STROBE	110	195.00	1	1					390.00
STROBE	15	71.00		1					71.00
STROBE	30	96.00							
STROBE	75	153.00							
STROBE	110	195.00							
Notification Appliance Circuit Loading:			856.00	1,037.00					1,893.00

Notification Circuit Voltage Drop

CIRCUIT ID	CIRCUIT CURRENT (AMPS)	DISTANCE (FEET)	AWG	%VD	VD
NAC1	0.86	250	#12	2.95%	0.71
NAC2	1.04	250	#12	3.57%	0.86
NAC3			#12		
NAC4			#12		
NAC5			#12		
NAC6			#12		

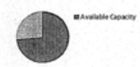
Battery Calculation

	Super.	Alarm
Totals Panel Current (mA):	58.15	2147.52
Total Panel Current (Amps):	0.06	2.15
Hours in Standby:	24	
Standby Amp Hours:	1.40	
Minutes in Alarm:		30
Total Alarm Amp Hours:		1.07
Minumum Battery Capacity Required:		2.47 AH

Provide a 7ah battery

Panel Loading

Panel Capacity (Amps): 6.00
Panel Load (Amps): 2.15



ALL LOADS ARE EXPRESSED AS mA UNLESS OTHERWISE NOTED

BP-3 Calculations

Power Supply: BP3 — Location: Bldg. 200

Notification Circuit Loading

DEVICE	cd	LOAD/EA	NAC1	NAC2	NAC3	NAC4	NAC	NAC	TOTAL
SPEAKER STROBE	15	71.00	4	1	4				639.00
SPEAKER STROBE	30	96.00	5	6	4				1,440.00
SPEAKER STROBE	75	153.00		1					153.00
SPEAKER STROBE	110	195.00							
STROBE	15	71.00		1					71.00
STROBE	30	96.00							
STROBE	75	152.00							
STROBE	110	195.00							
Notification Appliance Circuit Loading:			764.00	871.00	668.00				2,303.00
Spare/Future Capacity - 20%:			0.20						460.60

Notification Circuit Voltage Drop

CIRCUIT ID	CIRCUIT CURRENT (AMPS)	DISTANCE (FEET)	AWG	%VD	VD
NAC1	0.76	200	#12	2.11%	0.51
NAC2	0.87	250	#12	3.00%	0.72
NAC3	0.67	300	#12	2.76%	0.66
NAC4			#12		
NAC			#12		
NAC			#12		

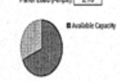
Battery Calculation

	Super.	Alarm
Totals Panel Current (mA):		2763.60
Total Panel Current (Amps):		2.76
Hours in Standby:	24	
Standby Amp Hours:		
Minutes in Alarm:		30
Total Alarm Amp Hours:		1.38
Minumum Battery Capacity Required:		1.38 AH

Provide a minimum 3 AH capacity battery

Panel Loading

Panel Capacity (Amps): 6.00
Panel Load (Amps): 2.76



ALL LOADS ARE EXPRESSED AS mA UNLESS OTHERWISE NOTED

FACP-EVS Calculations

Fire Alarm Control Panel: 1 — Location: ADMIN BLDG. 300

Signaling Line Circuit Loading

Qty	Device	DEVICE Super.	DEVICE Alarm	SUBTOTAL Super.	SUBTOTAL Alarm
1	SILENT KNIGHT 5820XL-EVS	275.00	440.00	275.00	440.00
43	SK SMOKE PHOTO	0.30	6.50	12.90	279.50
53	SK HEAT	0.30	6.50	15.90	344.50
	SK DUCT DETECTOR	0.30	6.50		
1	SK PULL	0.30	0.30	0.30	0.30
	MONITORING MODULE	0.30	6.50		
	RELAY MODULES	0.25	6.50		
	Signaling Line Circuit Load			304.10	1,064.30
	Spare/Future Capacity - 20%: 0.20				212.86

Notification Circuit Loading

DEVICE	cd	LOAD/EA	NAC-1	NAC-2	NAC-3	NAC-4	TOTAL
Notification Appliance Circuit Loading:							

Notification Circuit Voltage Drop

CIRCUIT ID	CIRCUIT CURRENT (AMPS)	DISTANCE (FEET)	AWG	%VD	VD
			#12		
			#12		
			#12		
			#12		
			#12		
			#12		

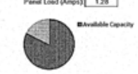
Battery Calculation

	Super.	Alarm
Totals Panel Current (mA):	304.10	1277.16
Total Panel Current (Amps):	0.30	1.28
Hours in Standby:	24	
Standby Amp Hours:	7.30	
Minutes in Alarm:		30
Total Alarm Amp Hours:		0.64
Minumum Battery Capacity Required:		7.94 AH

Provide capacity battery: 12 AH

Panel Loading

Panel Capacity (Amps): 6.00
Panel Load (Amps): 1.28



ALL LOADS ARE EXPRESSED AS mA UNLESS OTHERWISE NOTED

BP-4 Calculations

Power Supply: BP4 — Location: South Portables

Notification Circuit Loading

DEVICE	cd	LOAD/EA	NAC1	NAC2	NAC3	NAC4	NAC	NAC	TOTAL
SPEAKER STROBE	15	71.00		1					71.00
SPEAKER STROBE	30	96.00							
SPEAKER STROBE	75	153.00	4	3					1,071.00
SPEAKER STROBE	110	195.00							
STROBE	15	71.00							
STROBE	30	96.00							
STROBE	75	152.00							
STROBE	110	195.00							
Notification Appliance Circuit Loading:			612.00	530.00					1,142.00
Spare/Future Capacity - 20%:			0.20						228.40

Notification Circuit Voltage Drop

CIRCUIT ID	CIRCUIT CURRENT (AMPS)	DISTANCE (FEET)	AWG	%VD	VD
NAC1	0.61	300	#12	2.53%	0.61
NAC2	0.53	300	#12	2.19%	0.53
NAC3			#12		
NAC4			#12		
NAC			#12		
NAC			#12		

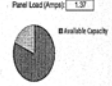
Battery Calculation

	Super.	Alarm
Totals Panel Current (mA):		1370.40
Total Panel Current (Amps):		1.37
Hours in Standby:	24	
Standby Amp Hours:		
Minutes in Alarm:		30
Total Alarm Amp Hours:		0.69
Minumum Battery Capacity Required:		0.69 AH

Provide a minimum 3 AH capacity battery

Panel Loading

Panel Capacity (Amps): 6.00
Panel Load (Amps): 1.37



ALL LOADS ARE EXPRESSED AS mA UNLESS OTHERWISE NOTED

BP-5 Calculations

Fire Alarm Control Panel: Booster Panel 5 with SLC Expander — Location: Building 100

Signaling Line Circuit Loading

Qty	Device	DEVICE Super.	DEVICE Alarm	SUBTOTAL Super.	SUBTOTAL Alarm
1	SILENT KNIGHT 5895XL	40.00	160.00	40.00	160.00
1	SLC EXPANDER, 5815XL	0.55	1.25	0.55	1.25
	MANUAL PULL STATION	0.30	0.30		
52	PHOTOELECTRIC SMOKE DETECTOR*	0.30	0.55	15.60	28.60
45	HEAT DETECTOR*	0.30	0.55	13.50	24.75
	MONITORING MODULE	0.30	0.30		
	DUAL MONITORING MODULE				
	PHOTOELECTRIC DUCT DETECTOR W/RELAY				
	BEAM DETECTOR	2.00	8.50		
	Signaling Line Circuit Load			69.65	214.60
	Spare/Future Capacity - 20%: 0.20				42.92

Notification Circuit Loading

DEVICE	cd	LOAD/EA	NAC1	NAC2	NAC3	NAC4	NAC5	NAC6	TOTAL
SPEAKER STROBE	15	71.00	4	4	5	3			1,136.00
SPEAKER STROBE	30	96.00	5	3	4	4			1,536.00
SPEAKER STROBE	75	153.00		1					153.00
SPEAKER STROBE	110	195.00							
STROBE	15	71.00							
STROBE	30	96.00							
STROBE	75	153.00							
STROBE	110	195.00							
Notification Appliance Circuit Loading:			764.00	725.00	739.00	597.00			2,825.00

Notification Circuit Voltage Drop

CIRCUIT ID	CIRCUIT CURRENT (AMPS)	DISTANCE (FEET)	AWG	%VD	VD
NAC1	0.76	250	#12	2.63%	0.63
NAC2	0.73	250	#12	2.50%	0.60
NAC3	0.74	300	#12	3.06%	0.73
NAC4	0.60	300	#12	2.47%	0.59
NAC5			#12		
NAC6			#12		

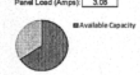
Battery Calculation

	Super.	Alarm
Totals Panel Current (mA):	69.65	3082.52
Total Panel Current (Amps):	0.07	3.08
Hours in Standby:	24	
Standby Amp Hours:	1.67	
Minutes in Alarm:		30
Total Alarm Amp Hours:		1.54
Minumum Battery Capacity Required:		3.21 AH

Provide a 7ah battery

Panel Loading

Panel Capacity (Amps): 6.00
Panel Load (Amps): 3.08



ALL LOADS ARE EXPRESSED AS mA UNLESS OTHERWISE NOTED

BP-6 Calculations

Power Supply: BP6 — Location: North Portable Buildings

Notification Circuit Loading

DEVICE	cd	LOAD/EA	NAC1	NAC2	NAC3	NAC4	NAC	NAC	TOTAL
SPEAKER STROBE	15	71.00			6				426.00
SPEAKER STROBE	30	96.00							
SPEAKER STROBE	75	153.00	4						612.00
SPEAKER STROBE	110	195.00			1				195.00
STROBE	15	71.00							
STROBE	30	96.00							
STROBE	75	152.00							
STROBE	110	195.00							
Notification Appliance Circuit Loading:			612.00		621.00				1,233.00
Spare/Future Capacity - 20%:			0.20						246.60

Notification Circuit Voltage Drop

CIRCUIT ID	CIRCUIT CURRENT (AMPS)	DISTANCE (FEET)	AWG	%VD	VD
NAC1	0.61	200	#12	1.69%	0.40
NAC2			#12		
NAC3	0.62	400	#12	3.42%	0.82
NAC4			#12		
NAC			#12		
NAC			#12		

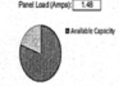
Battery Calculation

	Super.	Alarm
Totals Panel Current (mA):		1479.60
Total Panel Current (Amps):		1.48
Hours in Standby:	24	
Standby Amp Hours:		
Minutes in Alarm:		30
Total Alarm Amp Hours:		0.74
Minumum Battery Capacity Required:		0.74 AH

Provide a minimum 3 AH capacity battery

Panel Loading

Panel Capacity (Amps): 6.00
Panel Load (Amps): 1.48



ALL LOADS ARE EXPRESSED AS mA UNLESS OTHERWISE NOTED

AMP 1 — EVS-100 Voice Amp

Secondary Power Source Requirements

Device Type	Standby Current (amps) Qty		Current Draw		Total	Secondary Alarm Current (amps) Qty		Current Draw		Total
1. System										
100W AMP	1	X	0.0100	=	0.0100	0	X	0.2480	=	
		X		=		0	X	0.2480	=	
	0	X		=		0	X		=	
2. Speakers										
Enter Number of Watts @ 25Vrms	0	X	0.0000	=		0	X	0.0400	=	
Enter Number of Watts @ 70.7Vrms	48.75	X	0.0000	=	0.0000	49	X	0.0450	=	2.1938
			Total Standby Load		0.0100			Total Alarm Load		2.1938

100W Voice Amp Battery Calculation

Calculation in Total Sheet

		Required Standby Time in Hours			
			24 Hours		
Standby Load Current (Amps)	0.0100 Amps	X	24	=	0.240 AH
		Required Alarm Time in Hours			
			15 Minutes		
Alarm Load Current (Amps)	2.1938 Amps	X	0.25	=	0.548 AH
		Total Current Load			0.79 AH
	*Multiply by the Derating Factor		1.2	=	x 1.20
		Total Ampere Hours Required			0.95 AH
	Recommended Batteries:	3AH BATTERIES			

* Derating Factor required to compensate for the non-linear discharge characteristic of a battery.

AMP 2 — EVS-100 Voice Amp

Secondary Power Source Requirements

Device Type	Standby Current (amps) Qty		Current Draw		Total	Secondary Alarm Current (amps) Qty		Current Draw		Total
1. System										
100W AMP	1	X	0.0100	=	0.0100	0	X	0.2480	=	
		X		=		0	X	0.2480	=	
	0	X		=		0	X		=	
2. Speakers										
Enter Number of Watts @ 25Vrms	0	X	0.0000	=		0	X	0.0400	=	
Enter Number of Watts @ 70.7Vrms	37.5	X	0.0000	=	0.0000	38	X	0.0450	=	1.6875
			Total Standby Load		0.0100			Total Alarm Load		1.6875

100W Voice Amp Battery Calculation

Calculation in Total Sheet

		Required Standby Time in Hours			
			24 Hours		
Standby Load Current (Amps)	0.0100 Amps	X	24	=	0.240 AH
		Required Alarm Time in Hours			
			15 Minutes		
Alarm Load Current (Amps)	1.6875 Amps	X	0.25	=	0.422 AH
		Total Current Load			0.66 AH
	*Multiply by the Derating Factor		1.2	=	x 1.20
		Total Ampere Hours Required			0.79 AH
	Recommended Batteries:	3AH BATTERIES			

* Derating Factor required to compensate for the non-linear discharge characteristic of a battery.

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61598-009 PROJECT TRACKING NUMBER — 02-114730 APPLICATION NUMBER — 6-9 FILE NUMBER
AC MT FLS RC SS [illegible]
DATE 3-9-16

#	Date	Revision

CONSTRUCTION DOCUMENTS

NEXUS PROJECT #: 15125
CHECKED BY: LWK
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LOAD CALCULATION SCHEDULES

FA002

3/24/2016 10:04:58 AM

P	GROUND BOX FOR SIGNAL AND DATA CONDUIT/CABLE. CHRISTY N-40
FA	GROUND BOX FOR FIRE ALARM CONDUIT/CABLE. CHRISTY N-16
S	18"X18"X4" NEMA 3R SIGNAL AND DATA TERMINAL ENCLOSURE. 3-2" CONDUITS
F	12"X12"X4" NEMA 3R FIRE ALARM TERMINAL ENCLOSURE. 1-2" CONDUIT

GENERAL SHEET NOTES

A. ALL GROUND BOXES SHALL BE CONCRETE WITH EXTENSION RINGS TO 24" BELOW SURFACE. LABEL GROUND BOXES FOR "FIRE ALARM" AND "COMMUNICATIONS" RESPECTIVELY.

B. RESTORE ASPHALT, CONCRETE AND LANDSCAPE SURFACE TO MATCH ORIGINAL CONDITION.

C. WHEN SAW CUTTING CONCRETE, CUT ALONG JOINTS AND REMOVE SECTION OF CONCRETE. REPLACE ENTIRE SECTION.

D. PRIOR TO TRENCHING, COORDINATE EXACT LOCATION TO TRENCH WITH THE OWNERS REPRESENTATIVE TO ELIMINATE CONFLICT WITH FUTURE BUILDING PLANS.

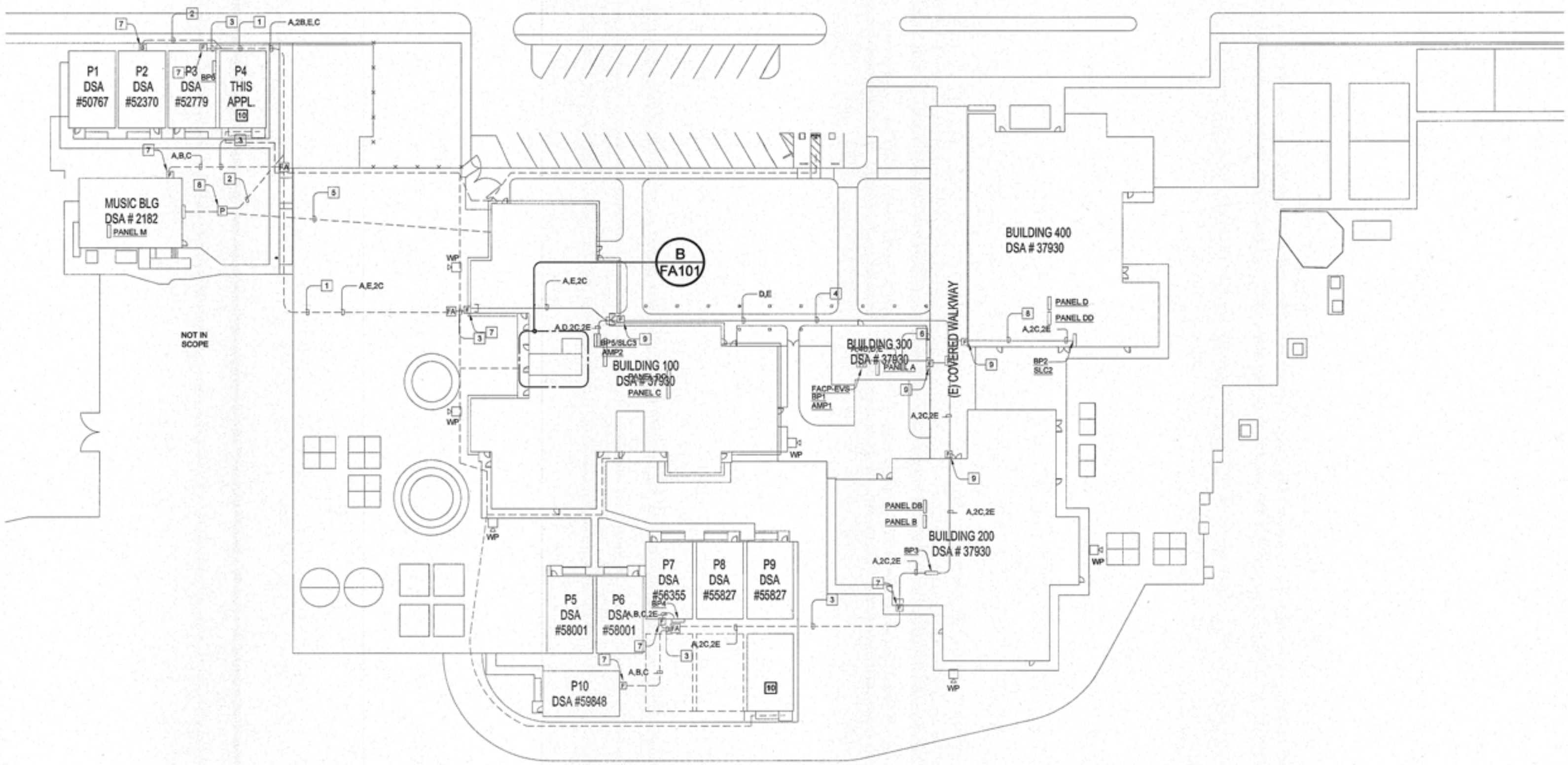
E. REFER TO FA301 FOR SINGLE LINE DIAGRAM

F. ALL CABLE IN ATTIC SPACE SHALL BE SUPPORTED EVERY 48" WITH J-HOOKS.

G. SUPPORT CONDUIT ON BREEZEWAY ROOF WITH B-LINE DURA-BLOCK "DB-5" CONDUIT SUPPORTS OR EQUAL, EVERY 6 FT. SECURE SUPPORT TO ROOF PER MANUFACTURERS INSTRUCTIONS.

NUMBERED SHEET NOTES

1. EXISTING 4 - 2" UNDERGROUND CONDUIT FOR 1-FA, 1-SIGNAL, 1-DATA FIBER, AND 1-SPARE.
2. EXISTING 3 - 2" UNDERGROUND CONDUIT FOR 1-SIGNAL, 1-DATA FIBER, AND 1-SPARE
3. EXISTING 1 - 2" UNDERGROUND CONDUIT FOR 1-FA
4. EXISTING 1-2" CONDUIT ABOVE COVERED BREEZEWAY FOR FIRE ALARM.
5. EXISTING UG TELECOM CONDUIT.
6. EXISTING 1-2" FA CONDUIT TO FIRE ALARM PANEL.
7. EXISTING SIGNAL AND/OR FA ENCLOSURES ABOVE CEILING LINE.
8. EXISTING TELECOM CHRISTY GROUND BOX. REMOVE GROUND BOX AND REPLACE WITH A CHRISTY N40 GROUND BOX TO 24"D. INTERCEPT EXISTING CONDUIT AND BRING INTO NEW BOX.
9. EXISTING FA ENCLOSURES ABOVE CEILING LINE ON THE SIDE OF BUILDING WITH SLEEVE INTO BUILDING ABOVE CEILING LINE WITH QTY OF CONDUITS.
10. PROVIDE FIRE ALARM & SIGNAL CONDUITS TO NEW PORTABLE CLASSROOM BUILDING. REFER TO FA204.



A FA101 PARTIAL FIRE ALARM SITE PLAN

SCALE: 1" = 30'-0"

N

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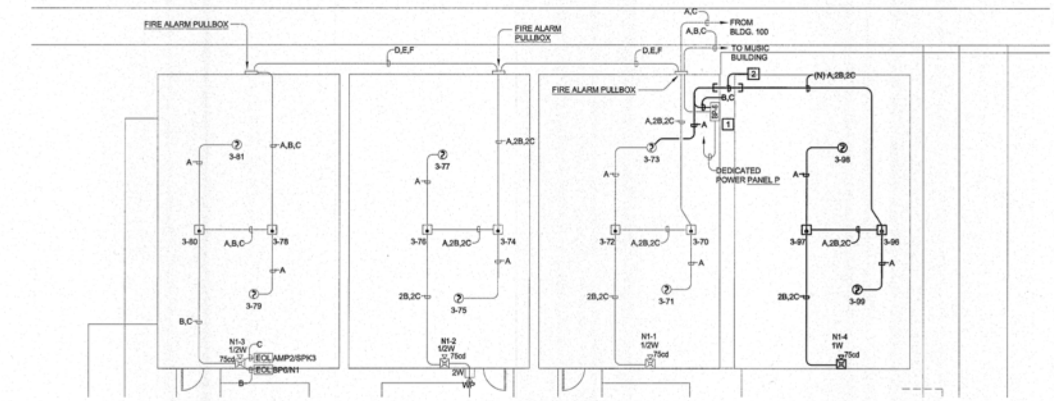
PARTIAL FIRE ALARM SITE PLAN

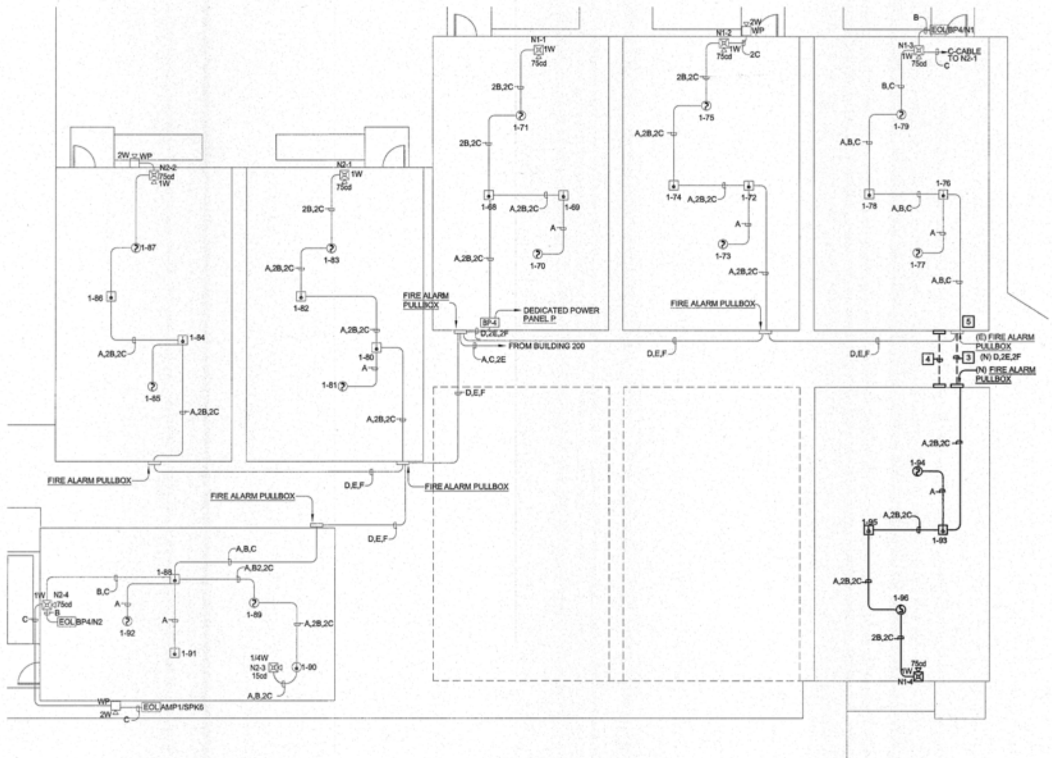
FA101

2/24/2016 10:04:58 AM



A — NORTH PORTABLES FIRE ALARM PLAN (FA204)

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



B — SOUTH PORTABLES FIRE ALARM PLAN (FA204)

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

GENERAL SHEET NOTES

A. FIRE ALARM SYSTEM INSTALLATION SHALL COMPLY WITH ALL REQUIREMENTS OF APPLICABLE CODES, STANDARDS AND STATE REGULATIONS.

B. FIRE ALARM CIRCUITS AND CIRCUIT ROUTING ARE SHOWN SCHEMATICALLY FOR CLARITY ILLUSTRATING THE WIRING CONFIGURATION NECESSARY FOR PROPER CIRCUIT SUPERVISION.

C. COORDINATE CEILING MOUNTED FIRE ALARM DEVICE LOCATIONS WITH WITH NEW LIGHT FIXTURES TO AVOID CONFLICTS.

D. INSTALL FIRE ALARM CONDUCTORS IN CONDUIT. ROUTE CONDUIT CONCEALED ABOVE CEILINGS AND/OR IN WALLS WHENEVER POSSIBLE. MINIMUM SIZE OF CONDUIT SHALL BE 3/4". UTILIZE WIREMOLD 700 SERIES SURFACE RACEWAY (IN LIEU OF CONDUIT) FOR AREA WHERE CONDUIT CANNOT BE INSTALLED CONCEALED.

E. REFER TO SINGLE LINE DIAGRAM FA301.

NUMBERED SHEET NOTES

1. EXISTING BOOSTER PANEL 6 ON THE EXTERIOR WALL NEAR THE CEILING. EXISTING DEDICATED 120VAC POWER FROM THE PORTABLE POWER PANEL.
2. 3-2" FLEX CONDUIT SLEEVES BETWEEN PORTABLES. FA, SIGNAL, DATA
3. 1-2" UNDERGROUND FIRE ALARM CONDUIT. PROVIDE A 12"X12"X4" FA TERMINAL ENCLOSURE
4. 3-2" UNDERGROUND SIGNAL CONDUIT. PROVIDE A 18"X18"X4" TERMINAL ENCLOSURE.
5. INTERCEPT AND EXTEND D, E, AND F CABLES AT TERMINAL STRIP TO NEW PORTABLES.

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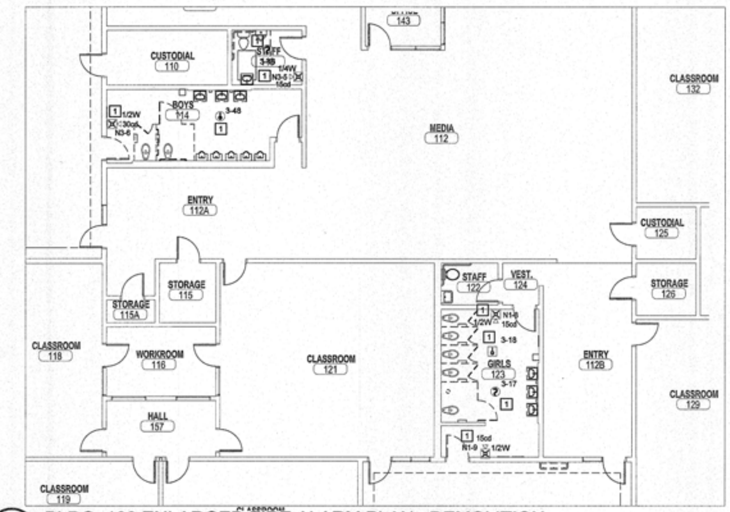
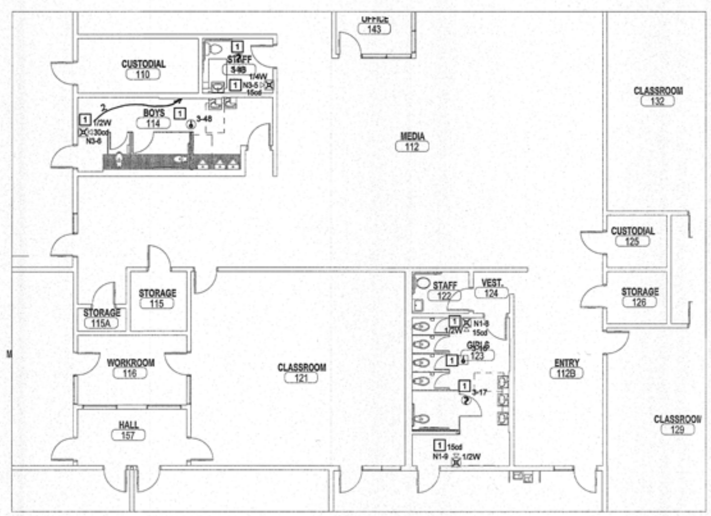
PORTABLES FIRE ALARM PLAN

FA204



A FA205 BLDG. 100 ENLARGED FIRE ALARM PLAN - DEMOLITION

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



B FA205 BLDG. 100 ENLARGED FIRE ALARM PLAN - NEW

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

GENERAL SHEET NOTES

A. FIRE ALARM SYSTEM INSTALLATION SHALL COMPLY WITH ALL REQUIREMENTS OF APPLICABLE CODES, STANDARDS AND STATE REGULATIONS.

B. FIRE ALARM CIRCUITS AND CIRCUIT ROUTING ARE SHOWN SCHEMATICALLY FOR CLARITY ILLUSTRATING THE WIRING CONFIGURATION NECESSARY FOR PROPER CIRCUIT SUPERVISION.

C. COORDINATE CEILING MOUNTED FIRE ALARM DEVICE LOCATIONS WITH WITH NEW LIGHT FIXTURES TO AVOID CONFLICTS.

D. INSTALL FIRE ALARM CONDUCTORS IN CONDUIT. ROUTE CONDUIT CONCEALED ABOVE CEILINGS AND/OR IN WALLS WHENEVER POSSIBLE. MINIMUM SIZE OF CONDUIT SHALL BE 3/4". UTILIZE WIREMOLD 700 SERIES SURFACE RACEWAY (IN LIEU OF CONDUIT) FOR AREA WHERE CONDUIT CANNOT BE INSTALLED CONCEALED.

E. REFER TO SINGLE LINE DIAGRAM FA301.

NUMBERED SHEET NOTES

1. EXISTING DEVICES TO REMAUN IN PLACE.
2. RELOCATE DEVICE TO (N) POSITION

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BLDG. 100 ENLARGED FIRE ALARM PLANS

FA205

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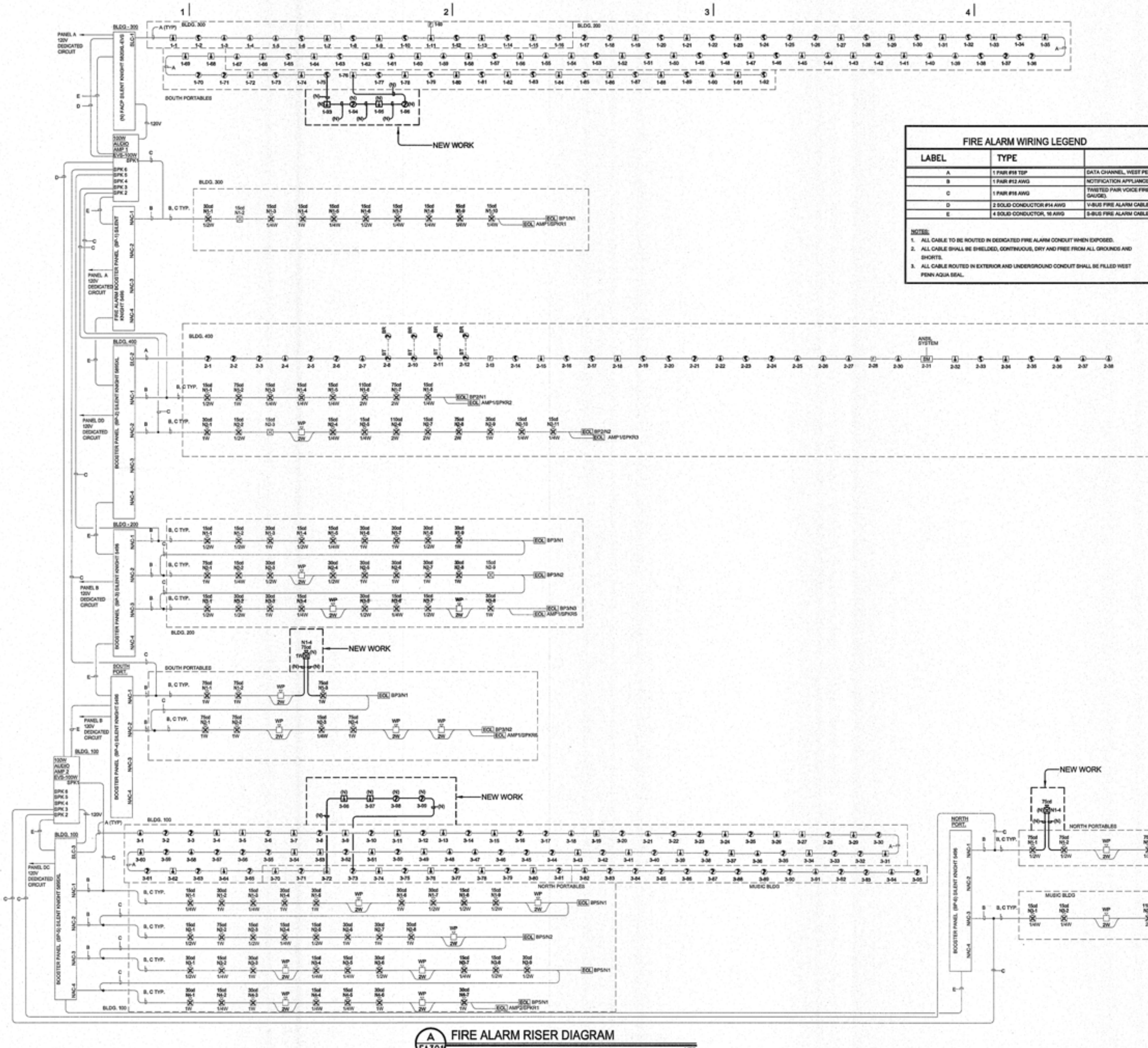

A FA301 FIRE ALARM RISER DIAGRAM

NTS

FIRE ALARM WIRING LEGEND		
LABEL	TYPE	DESCRIPTION
A	1 PAIR #18 TSP	DATA CHANNEL, WEST PENN D975, AQUA SEAL AQ224
B	1 PAIR #12 AWG	NOTIFICATION APPLIANCE CIRCUIT, WEST PENN 995, AQUA SEAL 227
C	1 PAIR #16 AWG	TWISTED PAIR VOICE FIRE ALARM CABLE, WEST PENN D990, AQUA SEAL AQ226 (14 GAUGE).
D	2 SOLID CONDUCTOR #14 AWG	V-BUS FIRE ALARM CABLE, GENESIS 4313, AQUA SEAL AQC226
E	4 SOLID CONDUCTOR, 16 AWG	S-BUS FIRE ALARM CABLE, GENESIS 4312, AQUA SEAL AQ245

NOTES:

1. ALL CABLE TO BE ROUTED IN DEDICATED FIRE ALARM CONDUIT WHEN EXPOSED.
2. ALL CABLE SHALL BE SHIELDED, CONTINUOUS, DRY AND FREE FROM ALL GROUNDS AND SHORTS.
3. ALL CABLE ROUTED IN EXTERIOR AND UNDERGROUND CONDUIT SHALL BE FILLED WEST PENN AQUA SEAL.

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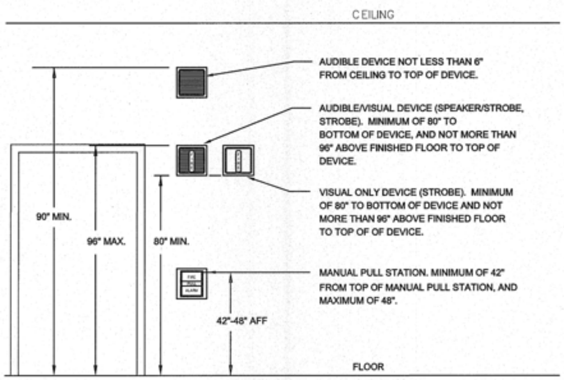
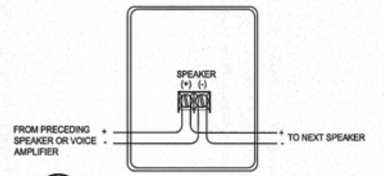
FIRE ALARM RISER DIAGRAM

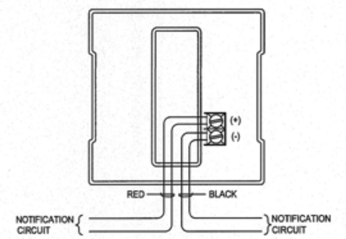
FA301



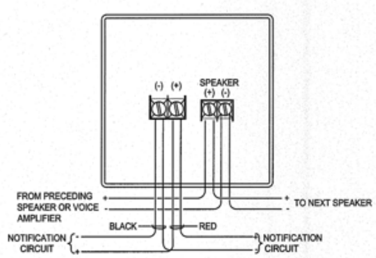
A FA401 FIRE ALARM DEVICE ELEVATION DETAIL (N.T.S.)



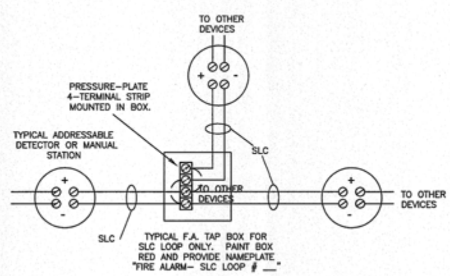
B FA401 NOTIFICATION SPEAKER DEVICE DETAIL



C FA401 TYPICAL FIRE ALARM STROBE DETAIL DETAIL



D FA401 TYPICAL NOTIFICATION SPEAKER/STROBE DETAIL DETAIL (N.T.S.)



E FA401 TYPICAL FIRE ALARM T-TAP DETAIL DETAIL

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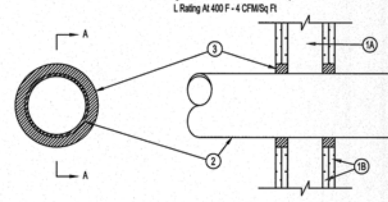
FIRE ALARM DETAILS

FA401

2/24/2016 10:04:58 AM

System No. W-L-1054

F Ratings - 1 and 2 Hr (See Items 1 and 3)
T Rating - 0 Hr
L Rating At Ambient - Less Than 1 CFM/Sq Ft
L Rating At 400 F - 4 CFM/Sq Ft



SECTION A-A

1. Wall Assembly -- The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
A. Studs -- Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. wider and 4 to 6 in. higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. clearance is present between the penetrating item and the framing on all four sides.
B. Gypsum Board* -- 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. for steel stud walls. Max diam of opening is 14-1/2 in. for wood stud walls.
The F Rating of the firestop system is equal to the fire rating of the wall assembly.

2. Through-Penetrants -- One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. Pipe may be installed with continuous point contact. Pipe, conduit or tubing may be installed at an angle not greater than 45 degrees from perpendicular. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe -- Nom 30 in diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe -- Nom 30 in. diam (or smaller) cast or ductile iron pipe.
   C. Conduit -- Nom 4 in diam (or smaller) steel electrical metallic tubing or 6 in. diam steel conduit.
   D. Copper Tubing -- Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.
   E. Copper Pipe -- Nom 6 in. diam (or smaller) regular (or heavier) copper pipe.
3. Fill, Void or Cavity Material* -- Sealant -- Min 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall .
HILTI CONSTRUCTION CHEMICALS, DIV OF
HILTI INC -- FS-One Sealant
*Bearing the UL Classification Mark

Hilti Firestop Systems

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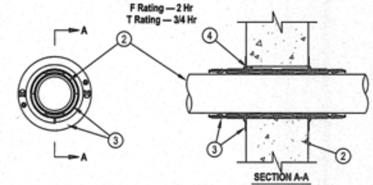
CLASSIFIED C UL US

System No. W-J-1215

F Rating — 2 Hr
T Rating — 3/4 Hr



SECTION A-A

1. Wall Assembly — Min 5-5/8 in. (143 mm) reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Opening in wall to be 2-1/2 in. (64 mm) diam for nominal 2 in. (51 mm) firestop device and 4 1/2 in. (114 mm) diam for nominal 4 in. (102 mm) firestop device.
See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Through Penetrant — One metallic pipe, conduit or tubing to be installed concentrically within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of the wall assembly. The following types and sizes of metallic pipes, conduits and tubes may be used:
   A. Steel Pipe — Nom 3 in. (76 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe.
   B. Iron Pipe — Nom 3 in. (76 mm) diam (or smaller) cast or ductile iron pipe.
   C. Conduit — Nom 3 in. (76 mm) diam (or smaller) rigid steel conduit or steel electrical metallic tubing (EMT).
3. Firestop Device* — Firestop device consists of a corrugated steel tube with an inner plastic housing, intumescent material rings and tightly twisted inner fabric smoke seal. Firestop device to be installed in accordance with the accompanying installation instructions. Device slid into wall such that ends project an equal distance from the approximate centerline of the wall assembly. The annular space between the device and the periphery of the opening shall be min 0 in. (point contact). Device provided with flanges that are spun clockwise onto device threads, butting tightly to both sides of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF
HILTI INC — CP 653 2" Speed Sleeve and CP 653 4" Speed Sleeve
4. Fill, Void or Cavity Material* – Sealant — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus between firestop device and wall, flush with both surfaces of wall. An additional 1/4 in. (6 mm) bead shall be applied around periphery of device on each side of wall prior to securing device flanges.
HILTI CONSTRUCTION CHEMICALS, DIV OF
HILTI INC — CP 606 or FS-ONE Sealant

*Bearing the UL Classification Mark

Hilti Firestop Systems

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CLASSIFIED C UL US

A / E402 FIRE STOP SYSTEMS

NTS

FIRE ALARM SCOPE OF WORK

ADDITION OF DEVICES IN TWO NEW PORTABLE CLASSROOM BUILDINGS.

FIRE ALARM SYSTEM DESCRIPTION

THE SYSTEM IS POWER LIMITED, AUTOMATIC, MANUAL, LOCAL, AUXILIARY, REMOTE STATION (PROTECTED PREMISES), PROPRIETARY (PROTECTED PREMISES), SUITABLE FOR RELEASING DEVICE SERVICE. REFER TO LISTEE'S DATA SHEET FOR DETAILED PRODUCT DESCRIPTION AND OPERATIONAL CONSIDERATIONS. SYSTEM SHALL HAVE MASS EVACUATION CAPABILITY WITH MESSAGE OVERRIDE FUNCTION.

FIRE ALARM SYSTEM NOTES

1. THE FIRE ALARM SYSTEM SHALL CONFORM TO CALIFORNIA ELECTRICAL CODE (CEC) ARTICLE 760 AND CALIFORNIA FIRE CODE (CFC) SECTION 907.
2. PROVIDE CALIFORNIA STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM INCLUDING MANUFACTURER CUT SHEETS FOR REVIEW.
3. BEFORE REQUESTING FINAL APPROVAL OF THE INSTALLATION THE INSTALLING CONTRACTOR SHALL FURNISH A WRITTEN STATEMENT TO THE DSA PROJECT INSPECTOR TO THE EFFECT THAT THE SYSTEM HAS BEEN INSTALLED AND TESTED IN ACCORDANCE WITH THE (2013) NFPA 72 SECTION 14.4.1.
4. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE DSA PROJECT INSPECTOR.
5. PROVIDE A RECORD OF COMPLETION PER CBC907.7.2.
6. AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AND CBC 907.6.5.2. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUIS BY UL OR SHALL MEET THE REQUIREMENTS OF FM STANDARD 8013.

FIRE ALARM SYSTEM COMPONENT SCHEDULE

SYMBOL	EQUIPMENT	DEVICE AMPS	MANUFACTURER & CATALOG NUMBER	LISTING DATE	CALIF. STATE FM LISTING NUMBER
FACP	EXISTING LIFE SAFETY CONTROL PANEL		SILENT KNIGHT MODEL 5820XL-EVS	06/30/2016	7165-0559:0172
BP#	EXISTING FIRE ALARM REMOTE PANEL WITH SLC EXPANDER	6	SILENT KNIGHT MODEL 5895XL	06/30/2016	7165-0559:0135
AMP	LIFE SAFETY AUDIO AMPLIFIER PANEL	.0700	SILENT KNIGHT MODEL EVS-100W	06/30/2016	7165-0559:0172
F	MANUAL PULL STATION	.055	SILENT KNIGHT #SK-PULL-DA	06/30/2016	7150-0559:0161
2 ②	PHOTOELECTRIC SMOKE DETECTOR	.055	SILENT KNIGHT #SK-PHOTO	06/30/2016	7272-0559:0149
	ADDRESSABLE HEAT DETECTOR FLUSH CEILING 134 DEGREES ABOVE ATTIC 194 DEGREES	.055	SILENT KNIGHT #SK-HEAT-ROR	06/30/2016	7270-0559:0147
② BT BR ②					
2-	PHOTOELECTRIC DUCT SMOKE DETECTOR WITH HOUSING	.055	SILENT KNIGHT #SK-DUCT	06/30/2016	3242-0559:0162
SM CR	SINGLE MONITORING MODULE CONTROL RELAY MODULE	.055	SILENT KNIGHT #SK-MONITOR #SK-RELAY	06/30/2016	7300-0559:0155
XXcd	MULTI-CANDELA DUAL AUDIBLE STROBE 15cd TO 135cd Each W/SPEAKER 1/4W,1/2W,1W,2W	15cd=.071 30cd=.096 75cd=.153 110cd=.195 135cd=.207	SYSTEM SENSOR #SPSW SPEAKER STROBE MODULE	06/30/2016	7320-1653:0201
XXcd	MULTI-CANDELA DUAL STROBE 15cd TO 110cd Each W/SYNC.	15cd=.071 30cd=.096 75cd=.153	SYSTEM SENSOR #SW STROBE MODULE	06/30/2016	7125-1653:0186
	CEILING NOTIFICATION SPEAKER 1/4W TO 2W		SYSTEM SENSOR CEILING SPEAKER #SPCV WITH TRIM RING	06/30/2016	7320-1653:201
	WALL NOTIFICATION SPEAKER 1/4W TO 2W		SYSTEM SENSOR WALL SPEAKER #SPV WITH BACK BOX	06/30/2016	7320-1653:201
BP#	BOOSTER POWER SUPPLY	6	SILENT KNIGHT - ADDRESSABLE POWER SUPPLY, MODEL 5496	06/30/2016	7165-0559:0135
EOL	END OF LINE RESISTOR	-	-	-	-

FIRE ALARM SYSTEM OPERATING MATRIX

RESULT OF OPERATION	PULL STATION	HEAT DETECTOR	DUCT DETECTOR	SMOKE DETECTOR	SYSTEM RESET	SIGNAL SILENCE	OPEN CIRCUIT, SHORT, ETC.	POWER LOSS	SPRINK. VALVE TAMPER	WATER FLOW ALARM
FACP ALARM	X	X		X						X
ANNUNCIATE ALARM	X	X		X						X
OFF SITE REPORTING ALARM	X	X	X	X					X	X
FACP TROUBLE						X	X	X		X
ANNUNCIATE TROUBLE			X			X	X	X		
OFF SITE REPORTING TROUBLE						X	X	X	X	
AUDIBLE ALARM	X	X		X						X
VISUAL ALARM	X	X		X						X
SUPERVISING STATION	X	X	X	X			X		X	
HVAC SHUTDOWN			X							
DEACTIVATE AUDIBLES					X	X				
DEACTIVATE VISUALS					X	X				
SYSTEM NORMAL					X					
ACTIVATE FIRE SPRINKLER BELL										X

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REGISTERED PROFESSIONAL ENGINEER
No. 11347
Exp. 12/31/17
ELECTRICAL
STATE OF CALIFORNIA

COLUSA UNIFIED SCHOOL DISTRICT
EGLING MS RELOCATABLE CLASSROOMS AND HARDCOURT PAVING

813 WEBSTER STREET
COLUSA, CA

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

PROJECT TRACKING NUMBER	APPLICATION NUMBER	FILE NUMBER
61598-009	02-114730	6-9

AC MWT FLS SS
DATE 3-9-16

#	Date	Revision

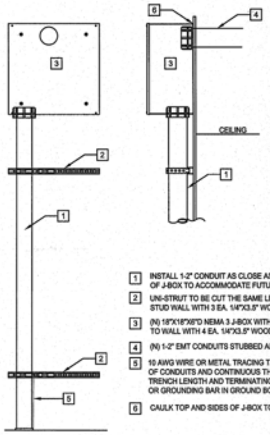
CONSTRUCTION DOCUMENTS

NEXUS PROJECT #: 15125
CHECKED BY: LWK
DRAWN BY: TEE
DATE: 3/8/2016

OPERATING MATRIX & DETAILS

FA402

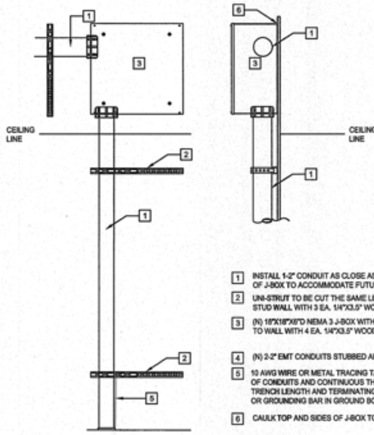
2/24/2016 10:04:58 AM



1. INSTALL 1-2" CONDUIT AS CLOSE AS POSSIBLE AND TO ONE SIDE OF J-BOX TO ACCOMMODATE FUTURE INSTALLATIONS
2. UNI-STRUT TO BE CUT THE SAME LENGTH AS J-BOX. SECURE TO STUD WALL WITH 3 EA. 1/4"X3.5" WOOD SCREWS.
3. (N) 18"X18"X6"D NEMA 3 J-BOX WITH HINGE AND KEYED LOCK. SECURE TO WALL WITH 4 EA. 1/4"X3.5" WOOD SCREWS INTO STUD WALL
4. (N) 1-2" EMT CONDUITS STUBBED ABOVE CEILING
5. 10 AWG WIRE OR METAL TRACING TAPE PLACED ON TOP OF CONDUITS AND CONTINUOUS THROUGHOUT ENTIRE TRENCH LENGTH AND TERMINATING ON RISER UNISTRUT OR GROUNDING BAR IN GROUND BOX.
6. CAULK TOP AND SIDES OF J-BOX TO PREVENT WATER PENETRATION.

A FA501 EXTERIOR CONDUIT DETAIL AT WALL

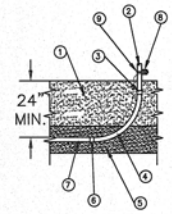
NTS



1. INSTALL 1-2" CONDUIT AS CLOSE AS POSSIBLE AND TO ONE SIDE OF J-BOX TO ACCOMMODATE FUTURE INSTALLATIONS
2. UNI-STRUT TO BE CUT THE SAME LENGTH AS J-BOX. SECURE TO STUD WALL WITH 3 EA. 1/4"X3.5" WOOD SCREWS.
3. (N) 18"X18"X6"D NEMA 3 J-BOX WITH HINGE AND KEYED LOCK. SECURE TO WALL WITH 4 EA. 1/4"X3.5" WOOD SCREWS INTO STUD WALL
4. (N) 2-2" EMT CONDUITS STUBBED ABOVE CEILING
5. 10 AWG WIRE OR METAL TRACING TAPE PLACED ON TOP OF CONDUITS AND CONTINUOUS THROUGHOUT ENTIRE TRENCH LENGTH AND TERMINATING ON RISER UNISTRUT OR GROUNDING BAR IN GROUND BOX.
6. CAULK TOP AND SIDES OF J-BOX TO PREVENT WATER PENETRATION.

B FA501 EXTERIOR CONDUIT DETAIL AT BREEZEWAY

NTS



(1) LAST 12" AB MATERIAL AT 95% COMPACTION FOR ASPHALT A ND CONCRETE 90% FOR PLANTED AREAS.

(2) GALVANIZED RIGID STEEL, TAPE WRAPPED CONDUIT

(3) GALVANIZED RIGID STEEL, TAPE WRAPPED COUPLING

(4) GALVANIZED RIGID STEEL, TAPE WRAPPED ELBOW

(5) SAND BEDDING AT 90% COMPACTION

(6) PVC COUPLING

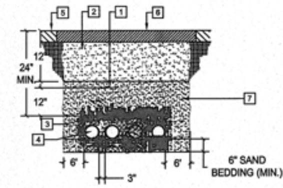
(7) PVC AND LARGER

(8) UNISTRUT SUPPORT

(9) 10 AWG WIRE OR METAL TRACING TAPE PLACED ON TOP OF CONDUITS AND CONTINUOUS THROUGHOUT ENTIRE TRENCH LENGTH AND TERMINATING ON RISER UNISTRUT OR GROUNDING BAR IN GROUND BOX.

C FA501 CONDUIT AT TRENCH

NTS

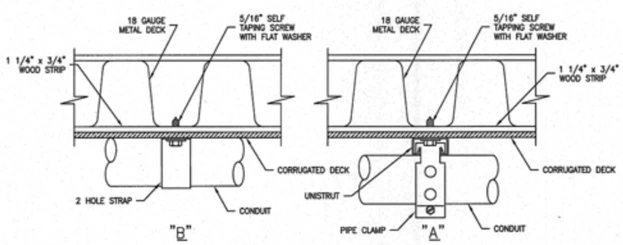


GROUND BOX SHEET NOTES

1. PLASTIC WARNING TAPE
2. LAST 12" AB MATERIAL AT 95% COMPACTION FOR ASPHALT AND CONCRETE, 90% FOR PLANTED AREAS
3. 10 AWG WIRE OR METAL TRACING TAPE PLACED ON TOP OF CONDUITS AND CONTINUOUS THROUGHOUT ENTIRE TRENCH LENGTH AND TERMINATING ON RISER UNISTRUT OR GROUNDING BAR IN GROUND BOX.
4. BOTTOM AND MIDDLE PLASTIC SPACERS EVERY 5'-0" SHALL BE USED WHERE CONDUITS HAVE TO BE STACKED ON TOP OF ONE ANOTHER. DUE TO SPACE LIMITATIONS. QUANTITY AS REQUIRED
5. EXISTING SURFACE
6. REPLACE TO MATCH EXISTING SURFACE
7. SAND AT 90% COMPACTION
8. 4-2" CONDUITS

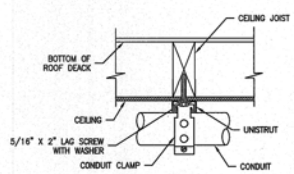
D FA501 GROUND TRENCH DETAIL

NTS



E FA501 CONDUIT TO CORRUGATED TILE DECK

NTS



F FA501 CONDUIT TO WOOD DECK

NTS

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PROJECT TRACKING NUMBER	APPLICATION NUMBER	FILE NUMBER
61598-009	02-114730	6-9

AC MT FLS [illegible] SS [illegible]
DATE 3-9-16

#	Date	Revision

CONSTRUCTION DOCUMENTS

NEXUS PROJECT #: 15125
CHECKED BY: LWK
DRAWN BY: TEE
DATE: 3/9/2016

DETAILS

FA501

2/24/2016 10:04:58 AM

American Modular Systems Inc.

AMS 24' x 40' STOCKPILE

(1) ~~(50)~~ 24' x 40' RELOCATABLE BUILDING

SERIAL NUMBER = 15-201-018

EXPOSED - STEEL

THE EXAMPLE FORM DSA-103'S SHOWN ON THIS SHEET ARE 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 ALL EXAMPLE FORM DSA-103'S ARE TO BE CROSSED OUT ON THIS DRAWING.

TYPE OF MODULAR STEEL MOMENT FRAME BUILDING PROJECT (X - INDICATES TEST OR INSPECTION TO BE DONE) (— INDICATES NOT APPLICABLE)

TESTS or INSPECTIONS (as listed on DSA-103)

MATERIAL TYPE		DSA-103 Item #	DESCRIPTION	STOCKPILE A (Wood Floor Only)	STOCKPILE B (Concrete Floors)	CONSTRUCTION OF (diaphragm material-foundation material) C (Plywood Floor Only - Wood Foundation)	D (Plywood Floor - Concrete Foundation)	E (Concrete Floor - Concrete Foundation)	RELOCATION OF CERTIFIED BUILDING F (Wood Foundation)	G (Concrete Foundation)
SOILS Verify the necessity of the Test and/or Inspections with the requirements of the Application that the PC is part of	GENERAL	1	Site has been prepared properly prior to fill placement/excavations. Ftg excavations extended to proper depth and material. Materials below footing are adequate	—	—	—	X	X	—	X
	COMPACTED FILL	2a	Perform Qualification Testing of Fill Materials	—	—	—	X	X	—	X
		2b	Verify use of proper fill materials, inspect lift thickness, placement and compaction during placement of controlled fill	—	—	—	X	X	—	X
		2c	Test Compaction of controlled fill	—	—	—	X	X	—	X
CONCRETE	LIGHT WEIGHT FILL OVER METAL DECK	7a	Verify use of required design mix	—	X	—	—	X	—	—
		7c	Perform Slump and (where required) Air Content Test, determine Temperature of Concrete	—	X	—	—	X	—	—
		7d	Test concrete -Compression Tests	—	X	—	—	X	—	—
		7e	Inspect batching of concrete - See next cell below if waived (per Note 1)	—	X	—	—	X	—	—
		12	Waiver of Batch Plant Inspection See Note 1 for conditions and requirements	—	X	—	—	X	—	—
		7f	Inspect placement of concrete, reinforcing and embedded items over Steel Deck - by RSIP	—	X	—	—	X	—	—
	FOUNDATION	7a	Verify use of required design mix	—	—	—	X	X	—	X
		7b	Test Reinforcing Steel - See Note 2 for Waiver, One Story Bldgs	—	—	—	X	X	—	X
		7c	Perform Slump and (where required) Air Content Test, determine Temperature of Concrete	—	—	—	X	X	—	X
		7d	Test concrete -Compression Tests	—	—	—	X	X	—	X
		7e	Inspect batching of concrete - See next cell below if waived (per Note 1)	—	—	—	X	X	—	X
		12 Note 5	Waiver of Batch Plant Inspection -To be performed by batch plant special inspector and project inspector See Note 1 for conditions and requirements	—	—	—	X	X	—	X
		7f	Inspect placement of formwork, concrete, reinforcing steel and embedded items - by Project Inspector	—	—	—	X	X	—	X
	POST INSTALLED ANCHORS Note 3	11a	Inspect installation of post-installed anchors	—	—	—	X	X	—	X
		11b	Test post-installed anchors	—	—	—	X	X	—	X
STRUCTURAL STEEL	MATERIAL VERIFICATION	17a	*Material are appropriately marked *Mill Certified Mill Test Reports *Material Sizes, Types and Grades comply with requirements	X	X	X	X	X	—	—
		17b	Sample and Test all Unidentified Structural Steel and Steel Deck	X	X	X	X	X	—	—
		17c	Examine seam welds of structural tubes and pipes	X	X	X	X	X	—	—
		17d	Verify member locations, bracing and all details constructed in the field	X	X	X	X	X	—	—
		17e	Verify stiffener locations, connection tab locations and all construction details fabricated in the shop	X	X	X	X	X	—	—
	VERIFICATION OF MATERIALS, EQUIPMENT, WELDERS, ETC	19a	Verify weld filler material identification marking per AWS designation listed on the DSA approved documents and the WPS	X	X	X	X	X	—	—
		19b	Verify weld filler material manufacturer's certificate of compliance	X	X	X	X	X	—	—
		19c	Verify WPS, welder qualifications and equipment	X	X	X	X	X	—	—
	SHOP WELDING	19.1a	Inspect groove, multi-pass, and fillet welds > 5/16"	X	X	X	X	X	—	—
		19.1b	Inspect single-pass fillet welds ≤ 5/16"	X	X	X	X	X	—	—
		19.1c	Inspect welding of stairs and railing systems Note 4	X	X	X	X	X	—	—
	FIELD WELDING See Note 4	19.2a	Inspect groove, multi-pass, and fillet welds > 5/16"	—	—	X	X	X	—	X
		19.2b	Inspect single-pass fillet welds ≤ 5/16"	—	—	X	X	X	—	X
		19.2f	Inspect welding of stairs and railing systems	—	—	X	X	X	—	X
	OTHER	23a	Shop Welding - Inspect welding of cold-formed steel Periodic/Special Inspector	X	X	X	X	X	—	—
		23b	Shop Welding - Inspect welding of steel floor deck welds Periodic/Special Inspector	—	X	—	—	X	—	—
OTHER - GROUNDING Note 5		26b	Electrical grounding Test/Project	—	—	X	X	X	X	X
OTHER - SHOT PINS (Two Story Modular) Note 5		26c	Ceiling wire hangers (pins in metal deck with concrete fill) Test/Lab	—	X	—	—	X	—	—

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

INSPECTOR CLASS (minimum requirements)	RSIP or Class 1	In Plant RSIP or Class 1 Site Class 4 for Single Story Site Class 3 for Two-Story	Class 4 for Single Story Class 3 for Two-Story
SELECTION OF THE PROJECT INSPECTOR AND TESTING AGENCY	By the Owner and approved by DSA, A/E of Record and Structural Engineer	By the School District and approved by DSA, A/E of Record and Structural Engineer	
COST OF THE PROJECT INSPECTOR (Title 24, Part 1, Section 4-333(b)) AND TESTING AGENCY (Title 24, Part 1, Section 4-335)	By the Owner	By the School District	

NOTES: NOTES APPLY ONLY WHEN TESTS OR INSPECTIONS APPLY TO YOUR PC SUBMITTAL

Note 1 Waiver of Batch Plant Inspection (per CBC 1704A.4.4)
Verify that Either Condition a or b are noted in the specifications
a) Concrete Plant complies fully with ASTM C94, Section 8 and 9, and has a current certification indicating the plant has automatic batching and recording capabilities from the National Ready Mixed Concrete Association
b) For One-story buildings, Compressive strength 3500 psi Specified - 3000 psi Design
And Requirements c thru f are met
c) Certified technician of the test laboratory check first batching at start of work and furnish mix proportions to licensed weighmaster
d) Licensed Weighmaster to positively identify materials as to quantity and certify each load by a ticket
e) Tickets transmitted to inspector of Record
f) Submit Weighmaster Affidavit
Note 2 Test may be waived for One-story buildings where the specified Compressive Strength delivered to the job site is 3500 psi and 3000 psi is used in the design
Note 3 Required only where the details of the PC specify the use of this type of anchor
Note 4 Required only where the details of the PC specify this Welding
Note 5 This test needs to be written in on the DSA-103 form

BUILDING DATA

OCCUPANCY	E ~~OR B (CLASSROOM USE FOR COLLEGES)~~
TYPE OF CONSTRUCTION	VB
WIND LOAD METHOD 1 – SIMPLIFIED PROCEDURE	V= 85 MPH, EXPOSURE = C, I = 1.00, K_{zt} = 1.00, λ = 1.21
FLOOR LIVE LOAD	50 LBS. ~~40 LBS/SQ FT~~
ROOF LIVE LOAD	20 LBS/SQ FT (REDUCIBLE)
FIRE SPRINKLER SYSTEM WEIGHT (PSF)	1.5
ALLOWABLE SOIL PRESSURE (PSF)	1,500 FOR CONCRETE
FLOOD HAZARD AREA	NO
BUILDING AREA	960
CLIMATE ZONES	1–16
MODULES	MOMENT-RESISTANT FRAME (SINGLE STORY)
SYSTEM	12' x 40' MODULES
FOUNDATION TYPE	WOOD ~~/CONCRETE~~
SEISMIC	S_S = 1.5, S_1 = *, F_a = 1.0, F_v = 0.0, S_{DS} = 1.000, S_{D1} = 0.000, I = 1.00, R = 3.50, Ω_0 = 3.00, C_d = 3.000, T = 0.190, Site Class = D, Seismic design category = *D ($S_1 \leq 0.75$) *E (S_1 =0.75 1.5) MAXIMUM S_s FOR REGULAR STRUCTURE'S FIVE STORIES OR LESS WITH A PERIOD OF 0.5 SECONDS OR LESS PER ASCE 7-05.12.8.1.3

APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2011

2010 CALIFORNIA ADMINISTRATIVE CODE (CAC) – (PART 1, TITLE 24, CCR)
2010 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 AND 2 – (PART 2, TITLE 24 CCR) (2009 EDITION INTERNATIONAL BUILDING CODE WITH 2010 CALIFORNIA AMENDMENTS)
2010 CALIFORNIA ELECTRICAL CODE (CEC) – (PART 3, TITLE 24, CCR) (2008 EDITION NATIONAL ELECTRICAL CODE WITH 2010 CALIFORNIA AMENDMENTS)
2010 CALIFORNIA MECHANICAL CODE (CMC) – (PART 4, TITLE 24, CCR) (2009 EDITION IAPMO UNIFORM MECHANICAL CODE WITH 2010 CALIFORNIA AMENDMENTS)
2010 CALIFORNIA PLUMBING CODE (CPC) – (PART 5, TITLE 24, CCR) (2009 EDITION IAPMO UNIFORM PLUMBING CODE WITH 2010 CALIFORNIA AMENDMENTS)
2010 CALIFORNIA ENERGY CODE (CEC) – (PART 6, TITLE 24, CCR) (2008 EDITION CALIFORNIA ENERGY COMMISSION BUILDING ENERGY EFFICIENCY STANDARDS)
2010 CALIFORNIA FIRE CODE (CFC) – (PART 9, TITLE 24, CCR) (2009 EDITION INTERNATIONAL FIRE CODE WITH 2010 CALIFORNIA AMENDMENTS)
2010 CALIFORNIA GREEN CODE (CGC) – (PART 11, TITLE 24, CCR)
2010 CALIFORNIA REFERENCED STANDARDS CODE – (PART 12, TITLE 24, CCR) NFPA 13 – 2010 NFPA 72 – 2010
2007 CALIFORNIA ELEVATOR SAFETY CONSTRUCTION CODE PART 7, TITLE 24, C.C.R
ACS PORTION TO MEET 2013 CBC

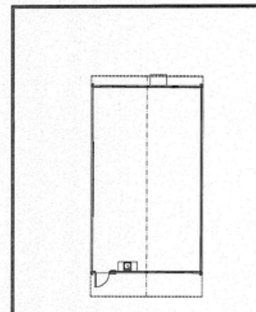
PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13	Automatic Sprinkler Systems	2010 Edition
NFPA 14	Standpipe Systems	2007 Edition
NFPA 17	Dry Chemical Extinguishing Systems	2002 Edition
NFPA 17a	Wet Chemical Systems	2002 Edition
NFPA 20	Stationary Pumps	2007 Edition
NFPA 24	Private Fire Mains	2010 Edition
NFPA 72	National Fire Alarm Code (California Amended)	2010 Edition
(Note See UL, Standard 1971 for "Visual Devices")		
NFPA 253	Critical Radiant Flux of Floor Covering Systems	2006 Edition
NFPA 2001	Clean Agent Fire Extinguishing Systems	2008 Edition
ASME 17.1	Elevator Standard	2007 Edition

GENERAL NOTES

1. PC BUILDING APPROVED ONLY FOR OCCUPANCY E OR B, OR A CATEGORY I & II WITH OCCUPANT LOAD LESS THAN 250.
2. THIS PLAN DOES NOT INCLUDE 2010 CBC REQUIREMENTS FOR "WILDLAND URBAN INTERFACE" AREAS. ADDITIONAL FIRE RESISTIVE CONSTRUCTION AND SAFE GUARDS WILL BE REQUIRED PER 2010 CBC CHAPTER 7A IF SITED IN A "WILDLAND URBAN INTERFACE" AREA.
3. SITE USE SPECIFIC REQUIREMENT FOR AUTOMATIC SPRINKLER SYSTEM MIGHT BE REQUIRED. AUTOMATIC FIRE SPRINKLER REQUIREMENTS ARE NOT INCLUDED IN THIS APPROVAL.
4. THIS PLAN SHALL NOT BE USED TO HOUSE "ROOMS OR AREAS WITH SPECIAL HAZARDS" SUCH AS LABORATORIES, VOCATIONAL SHOPS AND OTHER SUCH AREAS NOT CLASSIFIED AS GROUP H, LOCATED IN GROUP E OCCUPANCIES

SHEET INDEX



KEY PLAN

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

MODULAR MANUFACTURER PROPRIETARY STATEMENT

PRE-CHECKED SET NAME

24' x 40' THRU 120' x 40' RELOCATABLE BUILDINGS

SITE SPECIFIC PROJECT NAME

AMS 24' x 40' STOCKPILE
(50) 24' x 40' RELOCATABLE BUILDINGS

SHEET TITLE

COVER SHEET

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT RANDAL PATRICK CAIN STATE OF CALIFORNIA

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
02 114730
AC
DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV OF THE STATE ARCHITECT
02 113061
AC
DATE

ORIGINAL PC STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
PC 02-112210
AC FLS SSS
DATE 2/17/12

PRE-CHECK (PC) DOCUMENT – CODE 2010 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

REVISIONS

DRAWN BY:	
SCALE	AS NOTED
DATE	

SHEET NUMBER

TS

SECTION 1A GENERAL REQUIREMENTS

1. GENERAL

A. THE REQUIREMENTS OF THE GENERAL CONDITIONS OF THE AGREEMENT AND THIS GENERAL REQUIREMENT APPLY TO THE SEVERAL TRADE SECTIONS WITH THE SAME FORCE AS THOUGH FULLY REPEATED IN EACH TRADE SECTION.

B. NAME BRANDS ARE INDICATED TO ESTABLISH A STANDARD OF QUALITY. ITEMS OF EQUAL OR BETTER QUALITY MAY BE SUBSTITUTED FOR THE LISTED BRAND NAMED PRODUCTS WITH THE WRITTEN APPROVAL OF D.S.A. AND THE ARCHITECT.

C. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF TITLES 19 AND 24 CALIFORNIA CODE OF REGULATIONS 2010 C.B.C. NO CHANGES SHALL BE MADE FROM D.S.A. APPROVED DRAWINGS OR SPECIFICATIONS WITHOUT PRIOR WRITTEN APPROVAL OF D.S.A. AND THE ARCHITECT.

2. SCOPE OF WORK

A. THE WORK CONSISTS OF MANUFACTURING OFF-SITE IN A PLANT AND INSTALLING ON-SITE, MODULAR RELOCATABLE BUILDINGS AS DEFINED HEREIN AND SHOWN AND DETAILED ON DRAWINGS.

B. ALL REQUIREMENTS OF TITLES 24 OF THE STATE OF CALIFORNIA CODE OF REGULATIONS RELATING TO INSPECTIONS AND VERIFIED REPORTS SHALL BE COMPLIED WITH AND SHALL INCLUDE:

1. GENERAL RESPONSIBLE CHARGE OF FIELD ADMINISTRATION BY THE ARCHITECT OF RECORD.

2. INSPECTION IN-PLANT DURING THE COURSE OF CONSTRUCTION BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND THE DISTRICT ARCHITECT. THE INSPECTOR SHALL BE RESPONSIBLE FOR AND APPROVED TO INSPECT THE GENERAL CONSTRUCTION WELDING, MECHANICAL, AND ELECTRICAL WORK. COST OF THESE INSPECTIONS SHALL BE BORNE BY THE SCHOOL DISTRICTS.

3. ON-SITE INSPECTION OF THE BUILDING INSTALLATION ELECTRICAL AND UTILITY INSTALLATION OR CONNECTIONS BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND THE DISTRICT ARCHITECT AND RETAINED BY THE SCHOOL DISTRICT.

4. OTHER SPECIAL TESTS OR INSPECTIONS AS MAY BE REQUIRED BY THE DIVISION OF THE STATE ARCHITECT.

5. ADDENDUMS SHALL BE SIGNED BY THE ARCHITECT & APPROVED BY D.S.A.

6. CHANGE ORDERS SHALL BE SIGNED BY THE OWNER & ARCHITECT & APPROVED BY D.S.A.

7. THE TESTING LAB SHALL BE IN THE EMPLOY OF THE OWNER.

8. ALL CONTRACTORS SHALL VERIFY ALL WORK CONDITIONS, DIMENSIONS AND DETAILS AND REPORT ANY OR ALL OMISSIONS AND DISCREPANCIES TO THE DESIGNER/OWNER IMMEDIATELY BEFORE COMMENCING WORK.

9. EACH CONTRACTOR TO BE RESPONSIBLE TO SEE THAT THEIR WORK CONFORMS TO ALL GOVERNMENTAL CODES WHETHER OR NOT SO STATED ON THE DRAWINGS.

10. ALL MATERIALS AND WORKMANSHIP TO CONFORM TO THE LATEST REQUIREMENTS OF THE GOVERNING BUILDING CODES IN EFFECT AT TIME OF DSA APPLICATION.

11. ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED AND ERECTED PER MANUFACTURER'S DIRECTIONS AND INSTRUCTIONS.

12. SHOP DRAWINGS MAY BE REQUIRED. IF SO, THEY WILL BE ACCURATELY DRAWN TO A LARGE ENOUGH SCALE TO SHOW ALL PERTINENT FEATURES OF THE ITEM AND ITS CONNECTION TO RELATED WORK.

13. THE MANUFACTURER OF BUILDING IS TO PLACE TWO PERMANENT METAL IDENTIFICATION LABEL ON EACH MODULE, MECHANICALLY FASTENED TO THE FRAME SEE "GENERAL DESIGN REQUIREMENTS", THIS PAGE.

FOR PROJECTS MANUFACTURED OFF-SITE, THE PLANT INSPECTOR IS TO INDICATE THE MANUFACTURER'S NAME AND SERIAL NUMBER OF EACH MODULE ON THE VERIFIED REPORT AND D.S.A. APP. NUMBER.

14. ALL TESTS AND INSPECTIONS REQUIRED BY DSA SHALL BE COMPLIED WITH. ALL TESTS REQ. BY FIRE AND LIFE SAFETY REGULATIONS SHALL BE BY A NATIONALY RECOGNIZED TESTING LABORATORY.

SECTION 2 FOUNDATION

1. ASSUMED ALLOWABLE SOIL BEARING: 1000 PSF FOR WOOD FOUNDATIONS 1500 P.S.F. FOR CONCRETE FOUNDATIONS EMBEDDED 12" MIN. BELOW GRADE.

2. FOOTINGS SHALL BE LOCATED ON UNDISTURBED FIRM NATURAL SOIL, APPROVED COMPACTED FILL OR ON AN APPROVED PAVED SURFACE.

NOTE: THE FOUNDATION SYSTEM PRESENTED HEREIN COMPLIES WITH INTERPRETATION OF REGULATIONS, IR 16-1, ISSUED BY DIVISION OF THE STATE ARCHITECT FOR TEMPORARY BUILDINGS. THIS FOUNDATION SYSTEM IS NON-CONVENTIONAL AND THE STRUCTURAL ENGINEER TAKES NO RESPONSIBILITY FOR ITS CONSTRUCTION OR LONGEVITY.

WORK NOT INCLUDED:

A. ALL ON-SITE OR OFF-SITE UTILITIES AND THE CONNECTION OF THEM TO THE BUILDING UNLESS INDICATED ON THE DRAWINGS.

B. ALL LEVELING, GRADING OR OTHER SITE PREPARATION EXCEPT CONCRETE OR WOOD LEVELING STRIPS WHERE REQUIRED, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

C. FIRE ALARM SYSTEM, PROGRAM BELL, PUBLIC ADDRESS SYSTEM,INTERCOM SYSTEM,TV,TELEPHONE SYSTEM UNLESS OTHERWISE INDICATED ON THE DRAWINGS, OR MODIFIED BY CHANGE ORDER.

4. WHEELS AND HITCH SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

5. ACCESSIBILITY OF SITE THE SCHOOL DISTRICT SHALL PROVIDE ACCESS TO THE SITE FOR THE INSTALLATION OF BUILDINGS. REMOVAL OF TREES SHRUBS, FENCING, SPRINKLERS ETC. NECESSARY FOR THE MOVE-IN OF BUILDINGS SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT.

SECTION 5 STEEL

A. GENERAL - ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF AISC STANDARD SPECIFICATIONS, TITLE 24 OF CALIFORNIA CODE OF REGULATIONS AND THE AMERICAN IRON AND STEEL INSTITUTE SPECIFICATIONS FOR DESIGN OF STEEL STRUCTURAL MEMBERS. A COPY OF TITLE 24 SHALL BE KEPT AT THE JOBSITE AT ALL TIMES.

B. WELDING - ALL WELDING DONE BY SHIELDED ELECTRIC-ARC OR FLUX CORED-ARC PROCESS COMPLYING WITH REQUIREMENTS OF THE "STRUCTURAL WELDING CODE" OF THE AMERICAN WELDING SOCIETY.WELDING DONE BY OPERATORS QUALIFIED BY TESTS ACCEPTABLE TO THE DIVISION OF THE STATE ARCHITECT. WELDING INSPECTION PER TITLE 24, PART 2, CCR, SECTION 1704A.3.1 WELDING ELECTRODE SHALL BE E70XX. ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE-RESISTING SYSTEMS SHALL BE MADE WITH A FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20FT-LBS AT ZERO DEGREES F AND COMPLYING WITH AWS 01.8-6.3 (2204A.1.2 2010 C.B.C).

1. STRUCTURAL STEEL SHALL CONFORM TO A.S.T.M. A-36

2. PIPE COLUMNS SHALL COMFORM TO A.S.T.M. A-53 WITH SULFUR CONTENT NOT EXCEEDING 0.05%.

3. STEEL TUBING SHALL CONFORM TO A.S.T.M. A-500 GRADE B OR A.S.T.M. A579 GRADE 50 FOR GAUGE TUBING-TYP. U.N.O.

4. STRUCTURAL WELDS ARE DESIGNED FOR FULL ALLOWABLE STRESS UNLESS OTHERWISE NOTED.

C. ERECTION - STRUCTURAL STEEL ERECTED TRUE, STRAIGHT, PLUMB AND TO ITS DESIGNATED LOCATIONS. FIELD CONNECTIONS BOLTED OR WELDED AS INDICATED ON THE DRAWINGS.

D. NAILS, BOLTS, SCREWS AND NUTS ETC. - FOR EXTERIOR WORK SHALL BE CADMIUM PLATED OR GALVANIZED.

1. BOLTS FOR STRUCTURAL STEEL JOINTS SHALL CONFORM TO A.S.T.M. A-307 UNLESS OTHERWISE NOTED. ALL HOLES FOR MACHINE AND CARRIAGE BOLTS THROUGH STEEL TO BE DRILLED, OR TORCH PILOT HOLE AND REAM MIN. 1/16" TO BOLT SIZE. NELSON STUDS (WELDED TO STEEL) MAY BE SUBSTITUTED FOR BOLTS SAME LENGTH AND DIAMETER.

E. HANDRAILS - FABRICATED, AS DETAILED, WELDS GROUND SMOOTH.

F. SHOP PAINT

1. EXPOSED STEEL COATED WITH ONE SHOP COAT OF RED OXIDE PRIMER.

2. NON-EXPOSED STEEL COATED WITH ONE SHOP COAT OF RED OXIDE PRIMER.

3. ALL SURFACES THOROUGHLY CLEANED BY EFFECTIVE MEANS PRIOR TO APPLICATION OF SHOP COATS.

G.TESTS

1. PROVIDE MILL CERTIFICATES OR TEST ALL STEEL MEMBERS PER T-24 PART 2, CCR SECTION 2212A.1

SECTION 6A CARPENTRY

1. SCOPE OF WORK CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL CARPENTRY.

2. MATERIALS LUMBER GRADE MARKED IN ACCORDANCE WITH "STANDARD GRADING AND DRESSING RULE NO. 17" OF WEST COAST LUMBER INSPECTION BUREAU, OR "GRADING RULES FOR LUMBER, 3RD EDITION OF WESTERN WOOD PRODUCTS ASSOCIATION OR (W.C.L.I.B.). PLYWOOD GRADE MARKED IN ACCORDANCE WITH PRODUCT STANDARD PS 1-95 FOR SOFTWOOD PLYWOOD, OF AMERICAN PLYWOOD ASSOCIATION. EACH SHEET SHALL BEAR THE STAMP OF APA, PITTSBURGH TESTING, OR TECO.

A. JOISTS, PLATES, STUDS-DOUGLAS FIR S4S #2 U.N.O. NOTE: MSR 1650 E1.5 MAY BE SUBSTITUTED FOR #2 GRADE IF IT MEETS THE STRUCTURAL REQUIREMENTS FOR FLOOR AND ROOF MEMBERS.

B. H.F. HEADERS, POSTS AND TIMBERS-DOUGLAS FIR S4S #1

C. BLOCKING - DOUG FIR #3,OR HEM FIR #3,OR STD. & BET.

D. SILLS AND LUMBER & SHIM PLATES IN CONTACT WITH CONCRETE, MASONRY OR EARTH, DOUG FIR #2 PRESSURE TREATED IN ACCORDANCE WITH CBC 2304.11.2 EACH PIECE SHALL BEAR AWPB STAMP. AWPA STANDARD U1 & T1 GROUND CONTACT, D.F. #2 ABOVE GROUND.

E. MOISTURE BARRIER - KRAFT WATERPROOF BUILDING PAPER, OR 15 LB. FELT, CBC 1404.2

F. STUDS - S4S DOUG FIR #2. OR #2 HEM FIR. MAXIMUM MOISTURE CONTENT OF 19% AT TIME OF INSTALLATION.

G. FASTENERS -NAILS SHALL BE CORROSION RESISTANT PER C.B.C. 2304.9.1.1 COMMON NAILS FOR EXT. SIDING & FNDN. ONLY.

H. BUILDING TRIM - 2X RESAWN SELECT D.F., H.F., OR CEDAR

J. DOOR/WINDOW TRIM - 1X4 RESAWN D.F., H.F., OR

K. FRAMING CONNECTORS SHALL BE FROM SIMPSON CATALOG LATEST ED.

L. FIRE BLOCKS SHALL CONFORM TO CBC SECTION 717

M. ALL NAILS SHALL BE COMMON NAILS UNLESS OTHERWISE NOTED.

N. FOUNDATION LUMBER: ALL CUT ENDS AND HOLES IN PRESSURE TREATED LUMBER SHALL BE TREATED WITH "CUPRINOL".

3. WORKMANSHIP

A. FRAMING - SECURELY NAILED, BRIDGED AND BLOCKED TO FORM RIGID STRUCTURE. WORK CUT, FITTED AND ASSEMBELED LEVEL PLUMB AND TRUE TO LINE. TRIM IN AS LONG LENGTHS AS POSSIBLE WITH ALL STANDING TRIM IN ONE PIECE. TRIM SEALED AT ALL EDGES.

B. NAILING - IN ACCORDANCE WITH TITLE 24, CALIFORNIA BUILDING CODE, TABLE 2304.9.1

C. EXTERIOR WALLS - FACTORY FABRICATED. CAULKING PROVIDED BETWEEN PERIMETER OF WALL AND STRUCTURAL MEMBERS PROVIDING WEATHER-PROOF AND WATER-TIGHT SEAL. NECESSARY CLOSERS, SEALS, AND FLASHINGS PLACED AT TOP AND BASE SUPPORT OF PANELS AND AROUND OPENINGS.

D. NAILS INTO P.T. LUMBER TO BE HOT DIPPED GALVANIZED.

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

F. MOISTURE BARRIER - APPLIED TO STUDS WEATHER-BOARD FASHION, HORIZONTAL JOINTS LAPPED MIN 6" INCLUDING BUILDING CORNERS. SHEATHING APPLIED OVER MOISTURE BARRIER.

G. TRIM SEALED AT ALL EDGES. SEALANT PAINTED TO MATCH TRIM OR SIDING UNLESS TRANSPARENT TYPE.

SECTION 7B SHEET METAL

1. SCOPE OF WORK CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL INDICATED SHEET METAL.

2. MATERIALS

A. SHEET METAL - STEEL SHEETS HOT DIP GALVANIZED WITH 1.25OZ. PER SQUARE FOOT ZINC COATING CONFORMING TO ASTM A526. MINIMUM 26 GA. UNLESS OTHERWISE NOTED ON THE DRAWINGS.

B. SOLDER - OF STAND, GRADE "A" OF EQUAL PARTSARD BRAND LEAD AND TIN ASTM B32.

C. FLUX - ZINC SATURATED MURIATIC ACID.

D. GUTTERS: 26 GA. G-90 GALV. STEEL.
DOWNSPOUTS: 2"X3" CONVOLUTED 30 GA. G-90 GALV. STEEL.
GUTTER ENDCAPS: 26 GA. G-90 GALV. STEEL.
GUTTER CLIPS: 18 GA. G-90 GALV. STEEL

3. WORKMANSHIP

SHEET METAL ACCURATELY FORMED TO DIMENSIONS AND SHAPES DETAILED WITH TRUE STRAIGHT LINES, CORNERS AND ANGLES. FLASHING INSTALLED IN LONGEST LENGTHS POSSIBLE. EXTERIOR WORK FORMED, FABRICATED AND INSTALLED SO THAT IT ADEQUATELY PROVIDES FOR EXPANSION AND CONTRACTION IN THE COMPLETED WORK AND FINISHES WATER AND WEATHER TIGHT. ALUMINUM SHALL BE SEPARATED FROM FERROUS METAL BY POLYETHYLENE TAPE OR FLOOD COAT OF ASPHALTIC PAINT.

SECTION 7C METAL ROOFING

1. SCOPE OF WORK
CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL METAL ROOFING. TEST RESULTS SHOWING THE ROOFING SYSTEM WILL WITHSTAND THE UPLIFT OF AN 85 MPH WIND SHALL BE SUBMITTED WITH THE PLANS AND SPECIFICATIONS.

2. MATERIALS

A. ROOFING - 1 1/4" INCH STANDING SEAM MIN 26-GAUGE G-90 GALV. INTERLOCKING (UNPENETRATED) SHEET STL PANELS (G90).

B. ALTERNATE: ROOFING - 3 INCH STANDING SEAM MIN 20-GAUGE G-90 GALV. INTERLOCKING (UNPENETRATED) SHEET STL PANELS (G90).

C. ROOFING: CLASS B FIRE RATING

SECTION 7J SEALANT

1. SCOPE OF WORK CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL AND SERVICES TO SEAL BUILDINGS.

2. MATERIALS VULKEM SEALANT, POLYURETHANE, MANUFACTURED BY MAMECO INTERNATIONAL FOR ROOFS. "GEOCEL" SILICONIZED CAULK, GE, DUPONT, EAGLESEAL OR DAP FOR ALL OTHER APPLICATIONS, OR EQUAL.

3. WORKMANSHIP SEALANT APPLIED TO DRY CLEAN SURFACES, WHEREVER INDICATED ON DETAILS AND AS NEEDED TO MAKE BUILDING WATERTIGHT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

SECTION 8 CONCRETE

1. CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 318-08

2. THE MINIMUM 28 DAY STRENGTH AND TYPE OF CONCRETE SHALL BE A FOLLOW: SLABS ON GRADE & FOUNDATIONS 3000 PSI (150 PCF) CONCRETE OVER METAL DECK 3000 PSI (110 PCF)

3. REINFORCING SHALL CONFORM TO ASTM A615--GRADE 40 UON.

4. CONCRETE COVERAGE SHALL BE AS FOLLOWS, UON ON DRAWINGS: CONCRETE DEPOSITED DIRECTLY AGAINST GROUND (EXCEPT SLABS) ......3" CONCRETE EXPOSED TO GROUND BUT PLACED IN FORMS..............................2" SLABS (ON GROUND)...POSITION IN CENTER OF SLAB

5. ALL BARS SHALL HAVE A CLASS B MINUMUM SPLICE LAP UON.

6. NOTIFY THE STRUCTURAL ENGINEER PRIOR TO PLACING CONCRETE.

SECTION 8A EXTERIOR PLASTER

LATHING AND PLASTERING MATERIALS AND ACCESSORIES SHALL BE MARKED BY THE MANUFACTURER'S DESIGNATION TO INDICATE COMPLIANCE WITH THE APPROPRIATE STANDARDS REFERENCED IN THIS SECTION AND STORED IN SUCH A MANNER TO PROTECT THEM FROM THE WEATHER. PER 2507.1

LATHING AND PLASTERING MATERIALS SHALL CONFORM TO THE STANDARDS LISTED IN TABLE 2507.2 AND CHAPTER 35 AND, WHERE REQUIRED FOR FIRE PROTECTION, SHALL ALSO CONFORM TO THE PROVISIONS OF CHAPTER 7. PER 2507.2

GYPSUM BOARD AND GYPSUM PLASTER CONSTRUCTION SHALL BE OF THE MATERIALS LISTED IN TABLES 2506.2 AND 2507.2. THESE MATERIALS SHALL BE ASSEMBLED AND INSTALLED IN COMPLIANCE WITH THE APPROPRIATE STANDARDS LISTED IN TABLES 2508.1 AND 2511.1, AND CHAPTER 35 PER 2508.1

1. GENERAL NOTES PLASTERING WITH CEMENT PLASTER SHALL NOT BE LESS THAN THREE COATS WHEN APPLIED OVER METAL LATH OR WIRE FABRIC LATH AND SHALL NOT BE LESS THAN TWO COATS WHEN APPLIED OVER MASONRY CONCRETE OR GYPSUM BACKING AS SPECIFIED IN SECTION 2510.5

A. THE FIRST COAT SHALL BE APPLIED WITH SUFFICIENT MATERIAL AND PRESSURE TO FILL SOLIDLY ALL OPENINGS IN THE LATH. THE SURFACE SHALL BE SCORED HORIZONTALLY SUFFICIENTLY ROUGH TO PROVIDE ADEQUATE BOND TO RECEIVE THE SECOND COAT.

B. THE SECOND COAT SHALL BE BROUGHT OUT TO PROPER THICKNESS, RODDED AND FLOATED SUFFICIENTLY ROUGH TO PROVIDE ADEQUATE BOND FOR THE FINISH COAT. THE SECOND COAT SHALL HAVE NO VARIATION GREATER TO THAN 1/4 INCH (6.4 mm) IN ANY DIRECTION UNDER 5-FOOT STRAIGHT EDGE.

C. THE FINISH COATS SHALL BE APPLIED OVER BASE COATS THAT HAVE BEEN IN PLACE FOR THE TIME PERIODS SET FORTH IN ASTM C 926 THE THIRD OR FINISH COAT SHALL BE APPLIED WITH SUFFICIENT MATERIAL AND PRESSURE TO BOND TO AND TO COVER THE BROWN COAT AND SHALL BE OFF SUFFICIENT THICKNESS TO CONCEAL THE BROWN COAT.

SECTION 8B HOLLOW METAL DOORS AND FRAMES

1. SCOPE OF WORK CONTRACTOR SHALL PROVIDE ALL LABOR,MATERIALS AND SERVICES TO INSTALL HOLLOW METAL DOORS AND FRAMES.

2. MATERIALS

A. DOORS - INSULATED TYPE L FULL FLUSH, MANUFACTURED BY AMWELD MANUFACTURING COMPANY,18 GA. 1 3/4" THICK PER CS242 MIN,REINFORCE FOR HARDWARE-BOTH FACES FOR CLOSER, SOUND DEADEN INTERIOR.

B. FRAMES - 16 GA COLD ROLLED,2" FACES, CS242 MIN.3 ANCHORS PER JAMB + ADJUSTABLE FLOOR ANCHOR EACH JAMB REINFORCE FOR HARDWARE. PROVIDE STRIKE BOX,PROVIDE SOUND DEADENING: 1/8" UNDERCOATING OR INSULATING FILL.

3. WORKMANSHIP
ALL WORK FABRICATED IN SHOP TO REQUIRED PROFILES BY FORMING AND WELDING, WITH ARISES AND EDGES STRAIGHT, SHARP FIT FABRICATED ACCURATELY WITH SQUARE CORNERS, HAIRLINE JOINTS AND SURFACES FREE FROM WARP,WAVE,BUCKLE OR OTHER DEFECTS AFTER FABRICATION.DOORS AND FRAMES CLEANED THOUROUGHLY,ALL WELDS GROUND SMOOTH AND GIVEN PRIME COAT.

SECTION 9E PAINTING

1. SCOPE OF WORK
CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO PAINT BUILDING. ALL EXPOSED SURFACES OF BUILDING AND RAMPS SHALL BE PAINTED EXCEPT ALUMINUM WINDOW FRAMES, THRESHOLDS, AND ROOFING.

2. MATERIALS

	DUNN EDWARDS	KELLY MOORE	SHERWIN WILLIAMS	SINCLAIR
A. FOR EXTERIOR WOOD: REF.BRAND				
PRIMER	42-9M	1240	Y24W20	289-N
FINISH	QD-60-XX	1240-XXX	B54WZ102	GE2-NXX
B. FOR INTERIOR TRIM REF. BRAND				
FINISH	W450-XX	1650-XXX	A26W11	40XX
C. FOR METAL REF. BRAND				
PRIMER	43-4	1710	B50NZ6	15N
FINISH	10-XX	1700-XXX	B54WZ102	GE2-NXX

3. WORKMANSHIP

ALL EXPOSED SURFACES SHALL BE PAINTED EXCEPT ALUMINUM WINDOW FRAMES AND THRESHOLDS. MATERIAL SHALL BE OF THE GRADE SPECIFIED OR EQUAL.

A. EXTERIOR - WOOD SIDING, TRIM AND SKIRTING FLAT OR SEMI-GLOSS LATEX - APPLY ONE COAT OF PRIME AND AT LEAST ONE FINISH COAT. PRIME COAT SHALL BE BRUSHED ON OR SPRAYED AND BACK BRUSHED INTO ALL GROOVES IN THE SIDING. IF NECESSARY, IN THE OPINION OF THE INSPECTOR, AN EXTRA COAT SHALL BE APPLIED TO ALL GROOVES SO THAT THE FINISH COAT WILL HAVE A UNIFORM APPEARANCE. ALLOW PRIME COAT TO DRY ACCORDING TO MANUFACTURER'S RECOMMENDATION. PRIME AND FINISH COATS SHALL BE COMPATIBLE AND MANUFACTURED BY THE SAME COMPANY.

B. INTERIOR TRIM - TRIM NOT PRECOATED SHALL BE PAINTED WITH TWO COATS OF SEMI-GLOSS LATEX OVER PRIMER.

C. INTERIOR HARDWOOD CABINETS - TWO COATS LOW LUSTER POLYURETHANE FINISH. APPLY FIRST COAT THINNED WITH ONE QUART MINERAL SPIRITS PER GALLON. APPLY SECOND COAT AS RECOMMENDED BY MANUFACTURER.

D. METAL - ALL METAL SURFACES SHALL BE PAINTED WITH TWO COATS OF ALKYD FINISH COAT OVER ZINC CHROMATE OR EQUAL RUST INHIBITING PRIMER.

E. RAMP - ONE COAT OF FERROX NON-SLIP (0.8 MIN. C.O.F.) SURFACING AS MANUFACTURED BY AMERICAN ABRASIVE METALS OR COMPARABLE. ALL PAINTS OF THE TYPE INDICATED SHALL BE LISTED ON THE STATE OF CALIFORNIA QUALIFIED PRODUCTS LIST FOR MAINTENANCE PAINTS 8010-910-98A DATED JULY 1989. OR EQUAL.

F. SUBMIT ONE SET COLOR SAMPLES TO ARCHITECT FOR EACH PRODUCT TO ASSIST IN SELECTION.

SECTION 13F SITE ASSEMBLY

1. SCOPE OF WORK
CONTRACTOR SHALL PROVIDE ALL LABOR MATERIALS AND SERVICES TO PREPARE THE BUILDING ELEMENTS, TRANSPORT THEM FROM THE PLANT TO THE SITE AND TO COMPLETE THE ASSEMBLY AT THE SITE. THE CONDITION OF THE SITE, SUCH AS DRAINAGE AND SOIL BEARING CAPACITY, SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT. UNLESS SPECIFICALLY CALLED FOR IN THE CONTRACT, STEPS, RAMPS, OR HANDRAILS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

2. ASSEMBLY OF ELEMENTS

A. IN A LOCATION ON THE SITE AS DETERMINED BY THE SCHOOL DISTRICT, (APPROVED BY DSA) THE CONTRACTOR SHALL PLACE WOOD LEVELING STRIPS OR OTHER SUITABLE SUPPORTS AS DETAILED ON THE DRAWINGS.

B. THE ELEMENTS SHALL BE BROUGHT TO THE SITE ON WHEEL ASSEMBLY AND TRANSFERRED TO THE PREPARED SITE. GREAT CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE ELEMENTS BY RACKING OR BUMPING EACH OTHER.

C. CONNECTION OF THE ELEMENTS TOGETHER SHALL BE DONE ACCORDING TO INSTRUCTION ON THE DRAWINGS. FLASHINGS, TRIM AND OTHER LOOSE ITEMS SHALL BE INSTALLED PER DETAILS ON THE DRAWINGS.

SECTION 15A AIR CONDITIONING

1. SCOPE OF WORK (SEE SHEET M3 FOR HVAC SPEC. AND NOTES) CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL THE AIR CONDITIONING SYSTEM AS SHOWN ON THE DRAWINGS AND SPECIFICATIONS, INCLUDING A/C UNITS AND ACCESSORIES, REMOTE THERMOSTAT, GRILLS AND POWER WIRING COMPLETE TO LOAD CENTER. CONTRACTOR SHALL INSTRUCT OWNER'S OPERATORS ON OPERATION AND MAINTENANCE OF A/C SYSTEM.

2. EQUIPMENT SEE NOTE ON FLOOR PLAN FOR SIZE AND TYPE.

3. WORKMANSHIP UNITS SHALL BE INSTALLED COMPLETE AND OPERATING WITH ALL ACCESSORIES IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

SECTION 16A ELECTRICAL

1. SCOPE OF WORK CONTRACTOR SHALL PROVIDE ALL LABOR,MATERIALS AND SERVICES FOR ELECTRICAL INSTALLATION COMPLETE WITH ASSOCIATED EQUIPMENT AND FIXTURES, IN OPERATING CONDITION READY FOR USE. THE WORK INCLUDES: LIGHT AND POWER SYSTEMS ,LIGHTING FIXTURES COMPLETE WITH LAMPS, CONNECTIONS AND DISCONNECTS TO A/C EQUIPMENT.

A. PROVIDE CONDUIT WITH PULL STRINGS AND JUNCTION BOXES FOR AUTOMATIC DETECTION FIRE ALARM SYTEM AND NOTIFICATION PER PER NFPA 72

2. MATERIALS ALL NEW COMPLYING WITH REQUIREMENTS OF CALIFORNIA ELECTRIC CODE AND NATIONAL FIRE PROTECTION ASSOCIATION

A. ELECTRIC METALLIC TUBING - COUPLING AND FLEX CONDUIT GALVANIZED OR SHERARDIZED. EXTERIOR FLEX-GALV. STEEL W/FACTORY APPLIED P.V.C. JACKET.

B. PANELBOARDS - FLUSH MOUNTED.

C. CONDUCTORS - COPPER, INSULATED FOR 600 VOLTS, TYPE THHN FOR SIZES #12 TO #6, TYPE THW FOR LARGER SIZES.MINIMUM SIZE-#14.

D. RECEPTACLES - AS NOTED. +15" A.F.F. MIN. TO BOTTOM OF BOX.

E. CLOCK RECEPTACLE - AS NOTED.

F. SWITCHES - AS NOTED. +48" A.F.F. MAX. TO TOP OF BOX

G. LIGHTING FIXTURES - AS NOTED ON THE DRAWINGS.

3. WORKMANSHIP MATERIALS AND EQUIPMENT INSTALLED IN A SECURE,NEAT WORKMANLIKE MANNER IN ACCORDANCE WITH CODE REQUIREMENTS. PANELBOARD CARDS FILLED OUT.CONDUIT AND CABLE INSTALLED IN WALL AND CEILING SPACES. WORK PIERCING WATERPROOFED AREAS FLASHED AND SEALED TO A WATERTIGHT CONDITION. BUILDING CONDUIT/WIRING FROM FACE OF BLDG TO SITE TERMINATION BY SITE CONTRACTOR (N.I.C.).(FLEXIBLE CONDUIT S-BEND SEALTITE)

INSPECTION

INSPECTION OF PREFABRICATED BUILDINGS IS DIVIDED INTO TWO SEPARATE FUNCTIONS.

1. IN-PLANT INSPECTION.

2. ON-SITE INSPECTION.

THE CONTRACTOR SHALL ALLOW UP TO SEVEN (7) DAYS FROM THE DATE OF PLAN APPROVAL TO OBTAIN AN IN PLANT INSPECTOR APPROVED BY D.S.A.

IN-PLANT INSPECTION AND MATERIAL TESTING SHALL BE ACCOMPLISHED UNDER THE SUPERVISION OF THE DISTRICT ARCHITECT. THE CONTRACTOR SHALL NOTIFY THE DISTRICT ARCHITECT, DSA, AND THE DESIGNATED INSPECTOR/ INSPECTION AGENCY AT LEAST 48 HOURS PRIOR TO COMMENCING WORK. THE MANUFACTURER SHALL PROVIDE THE INSPECTOR WITH FULL ACCESS TO ALL PLANT OPERATIONS INVOLVING WORK UNDER THIS CONTRACT AND SHALL ADVISE THE INSPECTOR IN ADVANCE OF THE TIME AND PLACE WHEN OPERATIONS THAT THE INSPECTOR WANTS TO OBSERVE TAKE PLACE. BEFORE THE BUILDING(S) ARE REMOVED FROM THE PLANT FOR DELIVERY TO THE STORAGE FACILITY OR FROM THE STORAGE FACILITY TO THE SITE THE INSPECTOR SHALL DETERMINE THAT THEY ARE ACCEPTABLE AND ISSUE A WRITTEN RELEASE WHICH SHALL BE IN THE FORM OF A VERIFIED REPORT (FORM SSS-6). <u>A COPY OF THE INSPECTOR'S VERIFIED REPORT SHALL ACCOMPANY EACH BUILDING TO STORAGE OR TO THE SITE. THE INSPECTOR SHALL PUT ONE COPY IN EACH BUILDING.</u>

COORDINATION OF WORK

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE ALL NECESSARY ARRANGEMENTS WITH THE SCHOOL DISTRICT AUTHORIZED REPRESENTATIVE FOR ACCESS TO GROUNDS AND REMOVAL OF EQUIPMENT,IF NECESSARY. THIS CONTACT SHALL BE MADE AT LEAST 48 HOURS PRIOR TO DELIVERY OF AY MODULE. ON-SITE INSPECTION SHALL BE DONE BY THE SITE INSPECTOR. ALL WORK WHICH THE MANUFACTURER OR HIS SUBCONTRACTORS PERFORM AT THE SITE SHALL BE SUBJECT TO THE INSPECTION OF THE SITE INSPECTOR. THE MANUFACTURER WILL FURNISH THE SITE INSPECTOR WITH SUCH INFORMATION AS MAY BE NECESSARY TO KEEP HIM FULLY INFORMED AS TO PROGRESS OF WORK AND DATES WHEN SITE WORK WILL OCCUR. THE CONTRACTOR SHALL NOTIFY THE INSPECTION AGENCY AT LEAST 48 HOURS PRIOR TO COMMENCING WORK.

THE CONTRACTOR SHALL VERIFY THAT THE DISTRICT'S SITE IS READY TO RECEIVE THE CLASSROOM(S) PRIOR TO THE DELIVERY OF ANY CLASSROOM(S) BY VISITING EACH SITE (THIS MAY BE DONE BY THE INSPECTOR).

AMS

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

PRE-CHECKED SET NAME

24' x 40' THRU 120' x 40' RELOCATABLE BUILDINGS

SITE SPECIFIC PROJECT NAME

AMS 24' x 40' STOCKPILE
(50) 24' x 40" RELOCATABLE BUILDINGS

SHEET TITLE

GENERAL NOTES

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
No. C12631
Ren. 3-31-13
STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
02 114780
AC MT FLS SS
DATE 3-9-16

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
02 113681
AC FLS SS
DATE
1/23/14

ORIGINAL PC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 02-112210
AC FLS SS
DATE 2/17/12

PRE-CHECK (PC) DOCUMENT - CODE: 2010 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

REVISIONS
1
2
3
4

DRAWN BY:	
SCALE:	AS NOTED
DATE:	

SHEET NUMBER

N1

MATERIALS AND WORKMANSHIP

ALL CONTRACTORS SHALL CERTIFY THAT NO ASBESTOS-CONTAINING BUILDING MATERIALS WHICH EXCEED STATE AND FEDERAL MANDATED SAFE ASBESTOS LEVELS HAVE BEEN USED IN THE CONSTRUCTION OF RELOCATABLE FACILITIES.

ALL WORKMEN SHALL BE SKILLED AND QUALIFIED FOR THE WORK WHICH THEY PERFORM. ALL MATERIALS USED,UNLESS OTHERWISE SPECIFIED,SHALL BE NEW AND OF THE TYPES AND GRADES SPECIFIED. THE CONTRACTOR SHALL, IF REQUESTED, FURNISH EVIDENCE SATISFACTORY TO THE ARCHITECT THAT SUCH IS THE CASE.

CONTRACTOR'S CREWS ASSIGNED TO ANY WORK PERFORMED UNDER THIS CONTRACT SHALL INCLUDE ONE COMPETENT AND FULLY EXPERIENCED PERSON DESIGNATED AS THE RESPONSIBLE PERSON IN CHARGE. SUCH PERSON MUST BE IDENTIFIED BY NAME TO THE DISTRICT IN ADVANCE OF ANY WORK. UPON REQUEST, THE CONTRACTOR SHALL PROMPTLY FURNISH TO THE DISTRICT INFORMATION RELATING TO THIS EMPLOYEE'S EXPERIENCE.

WORKMANSHIP SHALL BE EQUAL OR BETTER IN QUALITY TO THAT REQUIRED BY THE CONSTRUCTION TRADES FOR A FINISHED PRODUCT. A QUALITY CONTROL SUPERVISOR, DESIGNATED BY THE MANUFACTURER, SHALL REVIEW ALL WORK IN PROGRESS AND SHALL REVIEW THE FINISHED BUILDING PRIOR TO FINAL INSPECTION TO ASSURE IT IS COMPLETE AND CORRECT. THE QUALITY CONTROL SUPERVISOR SHALL HAVE THE AUTHORITY TO HAVE MATERIALS REPLACED AND WORK REDONE IN ORDER TO CORRECT FAULTY MATERIALS OR WORKMANSHIP.

GENERAL DESIGN REQUIREMENTS:

UP TO (14) APPROXIMATELY 12' x 40'MODULES DESIGNED SO THAT TWO MODULES MAY BE JOINED TOGETHER TO FORM A COMPLETE STRUCTURE TO MAINTAIN A POSITIVE ALIGNMENT OF FLOORS, WALLS, AND ROOF AND TO PERMIT SIMPLE NON-DESTRUCTIVE DETACHMENT FOR FUTURE RELOCATION.

EACH MODULE SHALL BE PERMANENTLY IDENTIFIED WITH AN IMPRINTED (STAMPED NOT ENGRAVED) METAL IDENTIFICATION TAG 3"X1 -1/2" MINIMUM SIZE WITH THE FOLLOWING INFORMATION:

1. MANUFACTURER'S NAME AND BUILDING SERIAL NUMBER.
2. DESIGN WIND LOAD / EXPOSURE
3. DESIGN ROOF LIVE LOAD
4. DESIGN FLOOR LIVE LOAD
5. D.S.A. APPLICATION NUMBER.

2-TAGS PER MODULE ONE ON EXTERIOR AND ONE ON MODULE BEAM AT FRONT OF BUILDING ABOVE CEILING.

EACH MODULE SHALL BE CAPABLE OF RESISTING ALL VERTICAL AND LATERAL LOADS DURING TRANSPORTATION AND RELOCATION. (NORMAL INDUSTRY PRACTICE FOR BRACING MODULES DURING TRANSPORTATION AND RELOCATIONS IS ACCEPTABLE.) WHEN MODULES ARE ASSEMBLED JOINTS SHALL BE SEALED WITH REMOVABLE CLOSING STRIPS OR OTHER METHOD TO PRESENT A FINISHED APPEARANCE AND BE PERMANENTLY WATERPROOF.

EACH MODULE SHALL BE SUFFICIENTLY RIGID TO BE JACKED UP AT THE FRONT AND BACK CORNERS FOR RELOCATION WITHOUT DAMAGE OR THE MODULE SHALL HAVE LIFT LUGS AT FRONT AND BACK LOCATED AS REQUIRED SO THAT THE MODULE MAY BE JACKED UP FOR RELOCATION IN ONE PIECE WITHOUT ADDITIONAL SUPPORTS OF ANY TYPE. EVIDENCE OF EXCESSIVE BOWING DURING THE INSTALLATION OF THE MODULES WHICH, IN THE OPINION OF THE AGENCY ARCHITECT OR STRUCTURAL ENGINEER, CAUSES EXCESSIVE WORKING AT ANY JOINT OR COMPROMISES THE STRUCTURAL INTEGRITY OF THE MODULE SHALL BE SUFFICIENT REASON FOR REJECTION OF THE MODULE.

FINISH AND BASE MATERIALS AT EACH MODULE SHALL TERMINATE AT INTERIOR MODULE JOINTS IN A MANNER TO JOIN FLUSH AND TIGHT WITH SAME MATERIAL IN ADJACENT MODULE SO THE MODULE MAY BE RELOCATED WITH MINIMUM CUTTING AND PATCHING.

MARKERBOARD SPECIFICATIONS

MARKERBOARDS SHALL BE 24 ga. PORCELAIN STEEL FACING SHEET SUITABLE TO ACCEPT DRY ERASE FELT MARKERS. THE FACING SHEET SHALL BE LAMINATED TO PARTICLE BOARD SUBSTRATE WITH A MINIMUM DENSITY OF 45#/c.ft. THE PANEL SHALL HAVE A FOIL BACKING. THE PANELS SHALL HAVE EXTRUDED ALUMINUM MOLDING AND CHALKRAIL WITH A MINIMUM OF 2-1/2" PROJECTION FROM THE FACE OF PANEL. THREE MAP HOOKS WITH CLIPS PER PANEL SHALL BE PROVIDED. ONE FLAG HOLDER, 1/2" SIZE, SHALL BE PROVIDED FOR EACH CLASSROOM. EACH CLASSROOM SHALL HAVE 2 EACH 4 X 8 PANELS INSTALLED SIDE BY SIDE TO MAKE A 4 X 16 PANEL, CENTERED ON THE LONG WALL.
REFERENCE BRANDS: CHATFIELD-CLARKE Co. Inc. SERIES 500 OR NELSON ADAMS Co. NACO SERIES 60.

NOTE:

WALL FINISH MATERIAL	PIPE INSULATION
FLAME SPREAD MAX = 200	FLAME SPREAD MAX = 25
SMOKE DENSITY MAX = 450	SMOKE DENSITY MAX = 450
BUILDING INSULATION	DUCT INSULATION
FLAME SPREAD MAX = 25	FLAME SPREAD MAX = 25
SMOKE DENSITY MAX = 450	SMOKE DENSITY MAX = 50

INTERIOR

1. FLOOR: CARPETS - CLASSROOM SHALL BE CARPETED AS INDICATED ON FLOOR PLAN WITH DIRECT GLUE DOWN 28oz. VINYL CARPET. COLOR WILL BE SELECTED BY ARCHITECT AFTER AWARD OF BID. THE CARPET DENSITY SHALL BE 4800 MINIMUM. PILE YARN SHALL BE BRANDED NYLON. NO CROSS SEAMS SHALL BE ALLOWED. PILE HEIGHT 1/2" MAX

2. BASE: RESILIENT COVE BASE - BEST QUALITY, MOULDED RUBBER, 1/8" THICK, 4" HIGH, MOULDED TOP SET COVE; PROVIDE PREFORMED BASE FOR SQUARE EXTERNAL CORNERS AND PREFORMED END STOPS WHERE BASE DOES NOT ABUT. SOLID COLOR AS MANUFACTURED BY "JOHNSONITE CO.", FLEXCO, OR EQUAL. APPLY COVE TO COMPLETE PERIMETER OF CLASSROOM.

3. INTERIOR WALLS SHALL BE VINYL COVERED TACKBOARD(U.O.N.) APPLIED IN ONE CONTINUOUS LENGTH FROM FLOOR TO CEILING. THE TACKBOARD SHALL BE INDUSTRIAL INSULATION BOARD MANUFACTURED SPECIFICALLY AS A SUBSTITUTE FOR VINYL COVERED WALL PANELS. THE BOARD SHALL BE ASPHALT FREE, SHALL HAVE AN IRONED-ON COATING AND SHALL HAVE A MINIMUM DENSITY OF 18 LBS. PER FT. 3. THE VINYL COATING SHALL BE MADE OF VIRGIN VINYL CALENDERED BASE COLOR, WEIGHING A MINIMUM OF 8 OZ. PER SQUARE YARD. THE COATING BACKING SHALL BE SHEETING OR NON-WOVEN FABRIC. THE VINYL COATING SHALL BE MECHANICALLY LAMINATED, WITH THE LONG EDGES WRAPPED, TO THE TACKBOARD. TACKBOARD SHALL BE APPLIED OVER 1/2" SHEETROCK OR PLYWOOD SHEATHING. THE VINYL WALL COVERED PANEL SHALL HAVE A CLASS III FLAME SPREAD RATING. THE PANEL SHALL BE APPROVED FOR CLASSROOM USE BY THE CALIFORNIA STATE FIRE MARSHAL. REFERENCE BRAND: VINYL COVERED TACKBOARD AS MANUFACTURED BY CHATFIELD-CLARKE OR COMPARABLE. CARE SHALL BE TAKEN IN MOUNTING THE TACKBOARD SO THAT THE TEXTURE OF ALL PANELS WILL HAVE THE SAME ORIENTATION AND COLOR MATCH.

4. CEILING: SUSPEND T-BAR SYSTEM, SEE SHEET M2 FOR DETAILS ETC. MATERIALS AND INSTALLATION PER CCR 2501.A.5 AND IR #M-3 INCLUSIVE AS APPLICABLE TO CLASSROOMS.

DOORS & WINDOWS

EXTERIOR DOORS: METAL DOORS - 3'-0"x7'-0" HOLLOW METAL DOOR CONSTRUCTION OF 1 SHEET OF 18 GA. GRADE II STEEL ASSEMBLED PER CS242 MIN AND REINFORCED WITH 22 GA. MIN. FILL DOOR SPACES WITH MINERAL WOOL OR OTHER INSULATION. (REINFORCE BOTH FACES FOR CLOSURE) PROVIDE FLUSH TOP ON DOORS. HARDWARE REINFORCEMENT SHALL BE 10 GA. MIN FOR HINGES. DOOR FRAME SHALL BE 16 GA. PRESSED STEEL FRAME ASTM A366 & CS242. HARDWARE REINFORCEMENT SHALL BE 10 GA. PLATE. FRAMES SHALL BE FURNISHED WITH INTEGRAL STOP AND TRIM. PROVIDE (3) ANCHORS PER JAMB PLUS ADJUSTABLE FLOOR ANCHOR.

EXTERIOR WINDOWS: PROVIDE ANODIZED ALUMINUM FRAME 5/8" MINIMUM DUAL PANE WINDOW UNITS, AS SHOWN ON FLOOR PLANS. THE 5/8" DIMENSION IS THE MINIMUM THICKNESS FOR THE DUAL GLAZED WINDOW PANEL CONSISTING OF TWO LIGHTS OF GLASS AND THE AIR SPACE. GLAZING MATERIAL SHALL BE:
EXTERIOR LITE - 3/16" MINIMUM TEMPERED GLASS OR LAMINATED AS - 1 GLASS OF SOLAR GRAY GLARE REDUCING TYPE WITH A LIGHT TRANSMISSION FACTOR OF 45% MAXIMUM.
INTERIOR LITE - 1/8" MINIMUM CLEAR TEMPERED.
MINIMUM AIR SPACE SHALL BE 1/4".
SPACE - BENT OR SEALED CORNER ALUMINUM WITH DESICCANT FILL

SEALER - BUTYL PRIMARY SEAL AND POLYSULFIDE OF SILICONE SECONDARY SEAL.
CERTIFICATION - ALL GLAZING TO BE CERTIFIED IN ACCORDANCE WITH ASTM E-773, E-774.

HEADER HEIGHT SHALL BE THE SAME AS THE DOOR. ALL OPERABLE SASH SHALL HAVE ALUMINUM SCREENS. WINDOWS SHALL NOT BE MOUNTED TO THE EXTERIOR PLYWOOD SURFACE. ALL WINDOWS SHALL MEET THE AAMA GS101-88 VOLUNTARY. SPEC. FOR ALUMINUM PRIME WINDOWS AND SLIDING GLASS (ANS1), COMMERCIAL GRADE.

HARDWARE

1. EXTERIOR DOOR
   - A) HINGES: HAGER 4-1/2X4-1/2 BUTTS, BB1279 US26D,1-1/2 PAIR EACH DOOR WITH SET SCREW IN BARREL AND BALL BEARING DESIGN, OR APPROVED EQUAL.
   - B) EXTERIOR LOCKSET: SCHLAGE ND70PD CORBIN OR YALE OR EQUIVALENT. ALUM. FINISH. OR PANIC BARS/PULL HANDLE PANIC BAR TYPE VON DUPRIN 22L (PULL ON EXT.) OR CORBIN OR YALE OR EQUIVALENT. ALUM. FINISH. PANIC BARS ARE ONLY REQUIRED WHERE THE OCCUPANT LOAD IS 50 OR MORE.
   - C) CLOSER: NORTON 8500DA OR 8500BF SERIES, LCN 1460 DEL SERIES OR EQUAL.

MAXIMUM 5 LBS FOR EXTERIOR AND INTERIOR DOORS. THE MAXIMUM EFFORT FOR FIRE DOORS MAY BE INCREASED TO THE MAXIMUM ALLOWED BY THE APPROPIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 LBS.
THE SWEEP PERIOD FROM AN OPEN POSITION OF 70 DEGREES SHALL BE AT LEAST 3 SECONDS TO MOVE TO A POINT 3 INCHES FROM THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR.

- D) WEATHERSTRIPPING: ALL EXTERIOR DOORS SHALL BE WEATHERSTRIPPED WITH PEMKO 299D, ULTRA WS007, AT DOOR JAMBS AND HEAD OR EQUAL.
- E) THRESHOLD: THRESHOLD SHALL BE PEMKO 271 AV 5" ALUMINUM WITH PEMKO 216 AV ULTRA TH042 DOOR BOTTOM.
- F) DOORSTOP: QUALITY #44, OR EQUAL. WALL STOPS @ 4" MAX FROM WALL.
- D) INTERIOR LOCKSET: AS FOLLOWS:

STUDENT TOILETS	INTERIOR PASSAGE COPPER CREEK 6220-PASSAGE W/ADA LEVER OR 6231-RESTROOM W/ADA LEVER
OFFICES	INTERIOR ENTRY/OFFICE COPPER CREEK 6241-ENTRY/OFFICE W/ADA LEVER
CUSTODIAL	INTERIOR STOREROOM COPPER CREEK 6250-STOREROOM W/ADA LEVER
PUBLIC TOILETS	EXTERIOR DOORLOCKSET W/LEVER RHODES SCHLAGE ND95PD

FIRE EXTINGUISHER

1. EACH PORTABLE CLASSROOM SHALL BE EQUIPPED WITH PRESSURE TYPE FIRE EXTINGUISHERS WITH 2A10BC UL RATING. TO BE MOUNTED ON THE INTERIOR WALL OF THE BUILDING NEAR THE DOORWAY(S) AT A MAXIMUM HEIGHT OF 4 FEET TO THE MOUNTING BRACKET AND THE BOTTOM OF FE MOUNTED 27" AFF.
FIRE EXTINGUISHERS SHALL BE TOTALLY CHARGED AND HAVE A DIAL INDICATING THE STATE OF CHARGE.

ACCESSIBILITY STANDARDS

2010 CALIFORNIA BUILDING CODE (PART 2, TITLE 24, CCR)
SEC. 1103B.1 BUILDING ACCESSIBILITY, GENERAL.
THE 2010 CBC REQUIRES THAT BUILDINGS EXCEEDING 10,000 SQUARE FEET ON ANY FLOOR MUST HAVE AN ACCESSIBLE MEANS OF VERTICAL ACCESS VIA RAMP, ELEVATOR, OR LIFT WITHIN 200 FEET OF TRAVEL OF EACH STAIR AND EACH STAIR AND EACH ESCALATOR.
TABLE 1115B-1 SUGGESTED DIMENSIONS FOR CHILDREN'S USE.
THE 2010 CBC REQUIRES A 27" MINIMUM DIMENSION FOR LAVATORY/SINK KNEE CLEARANCE, WHICH IS THE DISTANCE FROM THE FINISH FLOOR TO THE UNDERSIDE OF THE LAVATORY/SINK.

SECTION 1115B.3.1 ACCESSIBLE WATER CLOSET COMPARTMENT.
THE 2010 CBC REQUIRES AN ACCESSIBLE TOILET STALL TO HAVE A MINIMUM WIDTH OF 60" AND SHALL BE EQUIPPED WITH A DOOR THAT HAS AN AUTOMATIC-CLOSING DEVICE, AND SHALL HAVE A CLEAR, UNOBSTRUCTED OPENING WIDTH OF 32 INCHES WHEN LOCATED AT THE END AND 34 INCHES WHEN LOCATED AT THE SIDE WITH THE DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION.
THE INSIDE AND OUTSIDE OF THE COMPARTMENT DOOR SHALL BE EQIPPED WITH A LOOP OR U-SHAPED HANDLE IMMEDIATELY BELOW THE LATCH. THE LATCH SHALL BE FLIP-OVER STYLE, SLIDING OR OTHER HARDWARE NOT REQUIRING THE USER TO GRASP OR TWIST. EXCEPT FOR DOOR-OPENING WIDTHS AND DOOR SWINGS.
A CLEAR, UNOBSTRUCTED ACCESS OF NOT LESS THAN 44 INCHES SHALL BE PROVIDED TO THE WATER CLOSET COMPARTMENTS DESIGNED FOR USE BY PERSONS WITH DISABILITIES.

SECTION 1115B.4.4.4. WATER CONTROLS
THE 2010 CBC REQUIRES THAT THE FORCE TO OPERATE A WATER CONTROL (VALVE) FOR AN ACCESSIBLE SHOWER SHALL NOT EXCEED 5LBS. MAXIMUM FORCE (PULL).
SECTION 1117B.5 SIGNS AND IDENTIFICATION (ALSO REFER TO SECTIONS 1115B.6, 1116B, 1007.6.5 1007.7, 1008.1.8.6, 1011.3, 1020.1.5 & 1020.1.6.1-5

THE 2010 CBC MAKES SEVERAL GENERAL DESIGN CHANGES AND CLARIFICATIONS TO SIGNAGE,
- *ALL GROUND FLOOR EXIT DOOR SHALL HAVE TACTILE EXIT SIGNAGE.
- *AT STAIRS, EACH FLOOR SHALL RECEIVE TACTILE "STAIR LEVEL" SIGNAGE IN ADDITION TO SPECIAL TACTILE AT THE EXIT DISCHARGE LEVEL.
- *EACH EXIT DOOR THAT LEADS TO A GRADE LEVEL EXIT BY MEANS OF A STAIRWAY SHALL HAVE TACTILE EXIT SIGNAGE.
- *EACH EXIT ACCESS DOOR TO A CORRIDOR OR HALLWAY THAT IS REQUIRED TO HAVE A VISUAL EXIT SIGN SHALL BE IDENTIFIED BY TACTILE EXIT SIGNAGE.

SECTION 1129B ACCESSIBLE PARKING REQUIRED.
THE 2010 CBC REQUIRES THE WORDS "NO PARKING", IN 12" HEIGHT WHITE LETTERS, TO BE PAINTED ON THE PAVEMENT WITHIN ALL PARKING SPACE ACCESS AISLES. VAN PARKING ACCESS AISLES SHALL BE PLACED ON THE PASSENGER SIDE OF THE VEHICLE. RAMPS MAY NOT ENCROACH INTO ANY REQUIRED ACCESS AISLE. PARKING SPACE ACCESS AISLES SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION.*

*EXISTING SITES:
AT EXISTING SITES, ANY RAMP WHICH EXCEEDS A 2% SLOPE
ACCESS AISLES FOR ACCESSIBLE PARKING SPACES PER CBCS SECTION 1129B, MAY REQUIRED REMOVAL AND REDESIGN PER THE PATH OF TRAVEL (POT) PROVISIONS OF CBCS SECTION 1134B, IN ORDER TO APPROVE THE BUILDING PLACEMENT.
SECTION 1133B.2.5 CLOSER EFFORT TO OPERATE DOORS.
THE 2010 CBC REQUIRES THAT THE EFFORT TO OPEN AN EXTERIOR DOOR SHALL NOT EXCEED 5 POUNDS (PULL).
THE 2010 CBC REQUIRES THAT THE SWEEP PERIOD OF ACCESSIBLE DOORS SHALL BE 3 SECONDS MAXIMUM, BASED ON AN OPEN DOOR POSITION OF 70 DEGREES (FROM CLOSED), TO A DOOR POSITION OF 3" FROM THE LATCH.
SECTIONS 1133B.2.4.5 & 1133B.2.5.3 RECESSED DOORS.
THE 2010 CBC REQUIRES THAT DOORS RECESSED 8" OR MORE SHALL HAVE STRIKE EDGE CLEARANCES IN ACCORDANCE WITH FIGURE 11B-33 (A).
SECTION 1133B.4.2.4 HANDRAIL ORIENTATION.
THE 2010 CBC SPECIFIES THAT AT LEAST ONE HANDRAIL SHALL BE PARALLEL TO THE DIRECTION OF THE STAIR RUN, AND PERPENDICULAR TO THE EDGE OF THE STAIR NOSING.

SECTION 1133B.5.2 RAMP WIDTH:
MINIMUM 48" CLEAR AT OCCUPANT LOAD 250 OR LESS, 60" CLEAR AT OCCUPANT LOAD MORE THAN 250.
RADIUS MINIMUM OF 0.125"
THE 2010 CBC REQUIRES THAT SIGN EDGES LESS THAN 80" ABOVE THE FINISHED FLOOR MUST CONTAIN ROUNDED OR EASED RADIUS MINIMUM OF 0.125"
THE PROJECT PLANS OR SPECIFICATIONS SHALL INDICATE THE REQUIREMENT THAT THE MANUFACTURER SHALL PROVIDE A WRITTEN FIVE-YEAR PRODUCT WARRANTY, IN ACCORDANCE WITH THE BULLETIN.

LIGHT GAUGE METAL STUDS

1. ALL GALVANIZED STUDS AND JOISTS SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE MINIMUM REQUIREMENTS OF THE 2007 AISI/COS/ANSI.
2. ALL GALVANIZED STUDS, JOISTS, TRACK, BRIDGING AND ACCESSORIES SHALL BE FORMED FROM STEEL HAVING A GALVANIZED COATING MEETING THE REQUIREMENTS OF ASTM A 653
3. GALVANIZED FRAMING PRODUCTS SHALL BE COATED IN ACCORDANCE WITH REQUIREMENTS OF ASTM A 653.
PRODUCTS WILL BE FURNISHED WITH A G-60 OR EQUIVALENT COATING IF SPECIFIED AND ORDERED TO BE IN CONFORMANCE WITH ASTM C-955 OTHERWISE, G-40 OR EQUIVALENT COATING WILL BE PROVIDED.

METAL FLOOR DECK

1. SECTION PROPERTIES SHALL BE DERIVED IN ACCORDANCE WITH AISI " SPECIFICATION FOR DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, LATEST EDITION."
2. METAL DECKING IS TO BE ATTACHED TO THE STRUCTURAL FRAME IN CONFORMANCE WITH AWS D1.1 AND D1.3 "SPECIFICATION FOR WELDING SHEET STEEL IN STRUCTURES."
3. ASTM REFERENCE NUMBERS:
A) ASTM A653, STEEL SHEET, ZINC-COATED (GALVANIZED) OR ZINC-IRON ALLOY-COATED (GALVANNEALED) BY THE HOT-DIP PROCESS STRUCTURAL (PHYSICAL) QUALITY.
4. STEEL DECK INSTITUTE (SDI)-METAL FLOOR DECK PROFILES SHALL BE IN CONFORMANCE WITH SDI STANDARDS.
5. METAL FLOOR DECK TO BE ASC STEEL DECK
   1. B-36, 18 GAUGE 1 1/2" DEEP X 36" WIDE
   2. N-24, 18 GAUGE 3" DEEP X 24" WIDE
   3. 3-W, 18 GAUGE 3" DEEP X 36" WIDE
6. DECK UNITS ARE TO BE FABRICATED FROM SHEET STEEL CONFORMING TO ASTM A653, Fy=38 KSI WITH A GALVANIZED COATING, G-60 OR G-90.

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

PRE-CHECKED SET NAME
24' x 40' THRU 120' x 40' RELOCATABLE BUILDINGS

SITE SPECIFIC PROJECT NAME
AMS 24' x 40' STOCKPILE
(50) 24' x 40" RELOCATABLE BUILDINGS

SHEET TITLE
GENERAL NOTES

MANUFACTURER PROFESSIONAL OF RECORD ON PC
LICENSED ARCHITECT RANDALL PATRICK CAVANAGH No. C12691 Ren. 3.31.13 STATE OF CALIFORNIA

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
02 114730
AC MT FLS SS
DATE 3-9-16

PROJECT SPECIFIC STATE AGENCY APPROVAL
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
02 113861
AC FLS SS
DATE 11/23/14

ORIGINAL PC STATE AGENCY APPROVAL
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
PC 02-112210
AC FLS
DATE 2/17/12

PRE-CHECK (PC) DOCUMENT - CODE: 2010 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

REVISIONS
1
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3
4

DRAWN BY:	
SCALE:	AS NOTED
DATE:	

SHEET NUMBER
N2

PERFORMANCE CERTIFICATE OF COMPLIANCE (Part 1 of 3) PERF-1C

Project Name			Date
120' x 40' Relocatable Bldg. - Climate Zone 14			10/25/2011
Project Address: 0 Degree Rotation	Climate Zone: CA Climate Zone 14	Total Cond. Floor Area: 4,740	Addition Floor Area: n/a

GENERAL INFORMATION

Building Type: ☒ Nonresidential ☐ Relocatable - Indicate specific climate zone ☐ High-Rise Residential ☐ Hotel/Motel Guest Room all climates

Phase of Construction: ☒ New Construction ☐ Addition ☐ Alteration

STATEMENT OF COMPLIANCE

This certificate of compliance lists the building features and specifications needed to comply with Title 24, Parts 1 and 6 of the California Code of Regulations. This certificate applies only to a Building using the performance compliance approach.

The documentation author hereby certifies that the documentation is accurate and complete.

Documentation Author

Name: Aaron Whitesmith — Signature: Aaron W.
Company: Capital Engineering Consultants, Inc. — Date: 10/25/2011
Address: 11020 Sun Center Dr #100 — Phone: 916-851-3500
City/State/Zip: Rancho Cordova, CA 95670

The Principal Designer hereby certifies that the proposed building design represented in this set of construction documents is consistent with the other compliance forms and worksheets, with the specifications, and with any other calculations submitted with this permit application. The proposed building has been designed to meet the energy efficiency requirements contained in sections 110, 116 through 118, and 140 through 149 of Title 24, Part 6. Please check one:

ENV. LTG. MECH.

☐ ☐ ☐ I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer, mechanical engineer, electrical engineer, or I am a licensed architect.

☐ ☐ ☐ I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.

☐ ☐ ☐ I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1.

Principal Envelope Designer

Name: RANDALL P. CAVANAGH — Signature: [signature]
Company: American Modular Systems, Inc. — Date: 2-14-12
Address: 787 Spreckels Ave. — License #: C 12631
City/State/Zip: Manteca, CA 95336 — Phone: 209-825-1921

Principal Mechanical Designer

Name: RANDALL P. CAVANAGH — Signature: [signature]
Company: American Modular Systems, Inc. — Date: 2-14-12
Address: 787 Spreckels Ave. — License #: C 12631
City/State/Zip: Manteca, CA 95336 — Phone: 209-825-1921

Principal Lighting Designer

Name: RANDALL P. CAVANAGH — Signature: [signature]
Company: American Modular Systems, Inc. — Date: 2-14-12
Address: 787 Spreckels Ave. — License #: C 12631
City/State/Zip: Manteca, CA 95336 — Phone: 209-825-1921

INSTRUCTIONS TO APPLICANT COMPLIANCE & WORKSHEETS (check box if worksheets are included)

☒	ENV-1C	Certificate of Compliance. Required on plans.	☒	MECH-1C	Certificate of Compliance. Required on plans.
☒	LTG-1C	Certificate of Compliance. Required on plans.	☒	MECH-2C	Air/Water Side/Service Hot Water & Pool Requirements.
☒	LTG-2C	Lighting Controls Credit Worksheet.	☒	MECH-3C	Mechanical Ventilation and Reheat.
☐	LTG-3C	Indoor Lighting Power Allowance.	☒	MECH-5C	Mechanical Equipment Details.

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PERFORMANCE CERTIFICATE OF COMPLIANCE (Part 2 of 3) PERF-1C

Project Name: 120' x 40' Relocatable Bldg. - Climate Zone 14 — Date: 10/25/2011

ANNUAL TDV ENERGY USE SUMMARY (kBtu/sqft-yr)

Energy Component	Standard Design	Proposed Design	Compliance Margin
Space Heating	22.95	34.57	-11.62
Space Cooling	128.38	146.35	-17.98
Indoor Fans	49.27	57.33	-7.06
Heat Rejection	0.00	0.00	0.00
Pumps & Misc.	0.00	0.00	0.00
Domestic Hot Water	97.42	101.19	-3.76
Lighting	83.61	39.37	44.24
Receptacle	63.66	63.66	0.00
Process	0.00	0.00	0.00
Process Lighting	0.00	0.00	0.00
TOTALS	445.50	442.59	2.93
Percent better than Standard		0.7 %	(0.7 % excluding process)

Heating, Cooling, Fans, Heat Rej, Pumps, DHW, Lighting, Receptacle, Process, Process Ltg

BUILDING COMPLIES

GENERAL INFORMATION

Building Orientation	(N) 0 deg	Conditioned Floor Area	4,740 sqft.
Number of Stories	1	Unconditioned Floor Area	0 sqft.
Number of Systems	5	Conditioned Footprint Area	4,740 sqft.
Number of Zones	5	Natural Gas Available On Site	Yes

	Orientation	Gross Area	Glazing Area	Glazing Ratio
Front Elevation	(N)	1,185 sqft.	160 sqft.	13.5 %
Left Elevation	(E)	400 sqft.	0 sqft.	0.0 %
Rear Elevation	(S)	1,185 sqft.	160 sqft.	13.5 %
Right Elevation	(W)	400 sqft.	0 sqft.	0.0 %
Total		3,170 sqft.	320 sqft.	10.1 %
Roof		4,740 sqft.	0 sqft.	0.0 %

	Standard		Proposed	
Prescriptive Lighting Power Density	1.200	W/sqft.	0.668	W/sqft.
Prescriptive Envelope TDV Energy	151,859		268,011	

Prescriptive Values for Comparison only. See LTG-1C for allowed LPD.

Remarks:

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PERFORMANCE CERTIFICATE OF COMPLIANCE (Part 3 of 3) PERF-1C

Project Name: 120' x 40' Relocatable Bldg. - Climate Zone 14 — Date: 10/25/2011

ZONE INFORMATION

System Name	Zone Name	Occupancy Type	Floor Area (sqft)	Inst. LPD (W/sqft)	Ctrl. Credits (W/sqft)	Allowed LPD Area (W/sqft)	Allowed LPD Tailored (W/sqft)	Proc. Loads (W/sqft)
HP-1	CLASSROOM 1	Classroom, Lecture, Traini	948	0.707	0.141			
HP-2	CLASSROOM 2	Classroom, Lecture, Traini	948	0.707	0.141			
HP-3	CLASSROOM 3	Classroom, Lecture, Traini	948	0.707	0.141			
HP-4	CLASSROOM 4	Classroom, Lecture, Traini	948	0.707	0.141			
HP-5	CLASSROOM 5	Classroom, Lecture, Traini	948	0.707	0.141			

EXCEPTIONAL CONDITIONS COMPLIANCE CHECKLIST

The local enforcement agency should pay special attention to the items specified in this checklist. These items require special written justification and documentation, and special verification to be used with the performance approach. The local enforcement agency determines the adequacy of the justifications, and may reject a building or design that otherwise complies based on the adequacy of the special justification and documentation submitted.

The exceptional features listed in this performance approach application have specifically been reviewed. Adequate written justification and documentation for their use have been provided by the applicant.

Authorized Signature or Stamp

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CERTIFICATE OF COMPLIANCE AND FIELD INSPECTION ENERGY CHECKLIST (Part 1 of 3) ENV-1C

Project Name: 120' x 40' Relocatable Bldg. - Climate Zone 14 — Date: 10/25/2011
Project Address: 0 Degree Rotation — Climate Zone: 14 — Total Cond. Floor Area: 4,740 — Addition Floor Area: n/a

GENERAL INFORMATION

Building Type: ☒ Nonresidential ☐ High-Rise Residential ☐ Hotel/Motel Guest Room
☐ Schools (Public School) ☐ Relocatable Public School Bldg. ☒ Conditioned Spaces ☐ Unconditioned Spaces
☐ Skylight Area for Large Enclosed Space ≥ 8000 ft² (If checked include the ENV-4C with submittal)
Phase of Construction: ☒ New Construction ☐ Addition ☐ Alteration
Approach of Compliance: ☐ Component ☒ Overall Envelope ☐ Unconditioned (file affidavit)
Front Orientation: N, E, S, W or in Degrees: 0 deg

FIELD INSPECTION ENERGY CHECKLIST

OPAQUE SURFACE DETAILS

Tag/ID	Assembly Type	Area (ft²)	Orientation N,E,S,W	U-Factor	Cavity R-Value	Exterior R-Value	Exterior Furring	Interior R-Value	Interior Furring	Joint Appendix 4	Condition Status	Pass	Fail
1	Roof	948	(N)	0.100	R-19					4.2.8-A26	New	☐	☐
2	Wall	184	(N)	0.102	R-13					4.3.1-A3	New	☐	☐
3	Door	21	(N)	0.700	None					4.5.1-A2	New	☐	☐
4	Wall	400	(W)	0.102	R-13					4.3.1-A3	New	☐	☐
5	Wall	205	(S)	0.102	R-13					4.3.1-A3	New	☐	☐
6	Floor	948	(N)	0.063	R-19					4.4.4-A12	New	☐	☐
7	Roof	948	(N)	0.100	R-19					4.2.8-A26	New	☐	☐
8	Wall	184	(N)	0.102	R-13					4.3.1-A3	New	☐	☐
9	Door	21	(N)	0.700	None					4.5.1-A2	New	☐	☐
10	Wall	205	(S)	0.102	R-13					4.3.1-A3	New	☐	☐

1. See Instructions in the Nonresidential Compliance Manual, page 3-96.
2. If Fail, then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. A fail does not meet compliance.

FENESTRATION SURFACE DETAILS

Tag/ID	Fenestration Type	Area (ft²)	Orientation N,E,S,W	Max U-Factor	U-Factor Source	Max (RSHGC)	SHGC Source	Overhang	Condition Status	Pass	Fail
1	Window	32	(N)	0.680	NFRC	0.320	NFRC	☒	New	☐	☐
2	Window	32	(N)	0.680	NFRC	0.320	NFRC	☒	New	☐	☐
3	Window	32	(S)	0.680	NFRC	0.320	NFRC	☒	New	☐	☐
4	Window	32	(S)	0.680	NFRC	0.320	NFRC	☒	New	☐	☐
5	Window	32	(N)	0.680	NFRC	0.320	NFRC	☒	New	☐	☐
6	Window	32	(N)	0.680	NFRC	0.320	NFRC	☒	New	☐	☐
7	Window	32	(S)	0.680	NFRC	0.320	NFRC	☒	New	☐	☐
8	Window	32	(S)	0.680	NFRC	0.320	NFRC	☒	New	☐	☐
9	Window	32	(N)	0.680	NFRC	0.320	NFRC	☒	New	☐	☐
10	Window	32	(N)	0.680	NFRC	0.320	NFRC	☒	New	☐	☐

1. See Instructions in the Nonresidential Compliance Manual, page 3-96.
2. If Fail, then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary.

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CERTIFICATE OF COMPLIANCE AND FIELD INSPECTION ENERGY CHECKLIST (Part 1 of 3) ENV-1C

Project Name: 120' x 40' Relocatable Bldg. - Climate Zone 14 — Date: 10/25/2011
Project Address: 0 Degree Rotation — Climate Zone: 14 — Total Cond. Floor Area: 4,740 — Addition Floor Area: n/a

GENERAL INFORMATION

Building Type: ☒ Nonresidential ☐ High-Rise Residential ☐ Hotel/Motel Guest Room
☐ Schools (Public School) ☐ Relocatable Public School Bldg. ☒ Conditioned Spaces ☐ Unconditioned Spaces
☐ Skylight Area for Large Enclosed Space ≥ 8000 ft² (If checked include the ENV-4C with submittal)
Phase of Construction: ☒ New Construction ☐ Addition ☐ Alteration
Approach of Compliance: ☐ Component ☒ Overall Envelope ☐ Unconditioned (file affidavit)
Front Orientation: N, E, S, W or in Degrees: 0 deg

FIELD INSPECTION ENERGY CHECKLIST

OPAQUE SURFACE DETAILS

Tag/ID	Assembly Type	Area (ft²)	Orientation N,E,S,W	U-Factor	Cavity R-Value	Exterior R-Value	Exterior Furring	Interior R-Value	Interior Furring	Joint Appendix 4	Condition Status	Pass	Fail
11	Floor	948	(N)	0.063	R-19					4.4.4-A12	New	☐	☐
12	Roof	948	(N)	0.100	R-19					4.2.8-A26	New	☐	☐
13	Wall	184	(N)	0.102	R-13					4.3.1-A3	New	☐	☐
14	Door	21	(N)	0.700	None					4.5.1-A2	New	☐	☐
15	Wall	205	(S)	0.102	R-13					4.3.1-A3	New	☐	☐
16	Floor	948	(N)	0.063	R-19					4.4.4-A12	New	☐	☐
17	Roof	948	(N)	0.100	R-19					4.2.8-A26	New	☐	☐
18	Wall	184	(N)	0.102	R-13					4.3.1-A3	New	☐	☐
19	Door	21	(N)	0.700	None					4.5.1-A2	New	☐	☐
20	Wall	205	(S)	0.102	R-13					4.3.1-A3	New	☐	☐

1. See Instructions in the Nonresidential Compliance Manual, page 3-96.
2. If Fail, then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. A fail does not meet compliance.

FENESTRATION SURFACE DETAILS

Tag/ID	Fenestration Type	Area (ft²)	Orientation N,E,S,W	Max U-Factor	U-Factor Source	Max (RSHGC)	SHGC Source	Overhang	Condition Status	Pass	Fail
								☐		☐	☐
								☐		☐	☐
								☐		☐	☐
								☐		☐	☐
								☐		☐	☐
								☐		☐	☐
								☐		☐	☐
								☐		☐	☐
								☐		☐	☐
								☐		☐	☐

1. See Instructions in the Nonresidential Compliance Manual, page 3-96.
2. If Fail, then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary.

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CERTIFICATE OF COMPLIANCE AND FIELD INSPECTION ENERGY CHECKLIST (Part 1 of 3) ENV-1C

Project Name: 120' x 40' Relocatable Bldg. - Climate Zone 14 — Date: 10/25/2011
Project Address: 0 Degree Rotation — Climate Zone: 14 — Total Cond. Floor Area: 4,740 — Addition Floor Area: n/a

GENERAL INFORMATION

Building Type: ☒ Nonresidential ☐ High-Rise Residential ☐ Hotel/Motel Guest Room
☐ Schools (Public School) ☐ Relocatable Public School Bldg. ☒ Conditioned Spaces ☐ Unconditioned Spaces
☐ Skylight Area for Large Enclosed Space ≥ 8000 ft² (If checked include the ENV-4C with submittal)
Phase of Construction: ☒ New Construction ☐ Addition ☐ Alteration
Approach of Compliance: ☐ Component ☒ Overall Envelope ☐ Unconditioned (file affidavit)
Front Orientation: N, E, S, W or in Degrees: 0 deg

FIELD INSPECTION ENERGY CHECKLIST

OPAQUE SURFACE DETAILS

Tag/ID	Assembly Type	Area (ft²)	Orientation N,E,S,W	U-Factor	Cavity R-Value	Exterior R-Value	Exterior Furring	Interior R-Value	Interior Furring	Joint Appendix 4	Condition Status	Pass	Fail
21	Floor	948	(N)	0.063	R-19					4.4.4-A12	New	☐	☐
22	Roof	948	(N)	0.100	R-19					4.2.8-A26	New	☐	☐
23	Wall	184	(N)	0.102	R-13					4.3.1-A3	New	☐	☐
24	Door	21	(N)	0.700	None					4.5.1-A2	New	☐	☐
25	Wall	400	(E)	0.102	R-13					4.3.1-A3	New	☐	☐
26	Wall	205	(S)	0.102	R-13					4.3.1-A3	New	☐	☐
27	Floor	948	(N)	0.063	R-19					4.4.4-A12	New	☐	☐
												☐	☐
												☐	☐
												☐	☐

1. See Instructions in the Nonresidential Compliance Manual, page 3-96.
2. If Fail, then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. A fail does not meet compliance.

FENESTRATION SURFACE DETAILS

Tag/ID	Fenestration Type	Area (ft²)	Orientation N,E,S,W	Max U-Factor	U-Factor Source	Max (RSHGC)	SHGC Source	Overhang	Condition Status	Pass	Fail
								☐		☐	☐
								☐		☐	☐
								☐		☐	☐
								☐		☐	☐
								☐		☐	☐
								☐		☐	☐
								☐		☐	☐
								☐		☐	☐
								☐		☐	☐
								☐		☐	☐

1. See Instructions in the Nonresidential Compliance Manual, page 3-96.
2. If Fail, then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary.

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CERTIFICATE OF COMPLIANCE AND FIELD INSPECTION ENERGY CHECKLIST (Part 2 of 3) ENV-1C

Project Name: 120' x 40' Relocatable Bldg. - Climate Zone 14 — Date: 10/25/2011

ROOFING PRODUCT (COOL ROOFS)

(Note if the roofing product is not CRRC certified, this compliance approach cannot be used). Go to Overall Envelope Approach or Performance Approach.

CHECK APPLICABLE BOX BELOW IF EXEMPT FROM THE ROOFING PRODUCT "COOL ROOF" REQUIREMENTS:	Pass	Fail	N/A
☐ Roofing compliance not required in Climate Zones 1 and 16 with a Low Sloped. ≤2:12 pitch or less.	☐	☐	☐
☐ Roofing compliance not required in Climate Zone 1 with a Steep-Sloped with less than 5 lb/ft². Greater than 2:12 pitch.	☐	☐	☐
☐ Low-sloped Wood framed roofs in Climate Zones 3 and 5 are exempted, solar reflectance and thermal emittance or SRI that have a U-factor of 0.039 or lower. See Opaque Surface Details roof assembly, Column H of ENV-2C.	☐	☐	☐
☐ Low-sloped Metal building roofs in Climate Zone 3 and 5 are exempted, solar reflectance and thermal emittance or SRI that have a U-factor of 0.048 or lower. See Opaque Surface Details roof assembly below, Column H of ENV-2C.	☐	☐	☐
☐ The roof area covered by building integrated photovoltaic panels and building integrated solar thermal panels are exempted. Solar reflectance and thermal emittance or SRI, see spreadsheet calculator at www.energy.ca.gov/title24/	☐	☐	☐
☐ Roof constructions that have thermal mass over the roof membrane with a weight of at least 25 lb/ft² are exempt from the Cool Roof criteria below.	☐	☐	☐
☐ High-rise residential buildings and hotels and motels with low-sloped roofs in Climate Zones 1 through 9, 12 and 16 are exempted from the low-sloped roofing criteria.	☐	☐	☐

1. If Fail then describe on this page of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary.

CRRC Product ID Number[1]	Roof Slope ≤ 2:12	Roof Slope > 2:12	Product Weight < 5lb/ft²	Product Weight ≥ 5lb/ft²	Product Type[2]	Aged Solar Reflectance[3]	Thermal Emittance	SRI[5]	Pass	Fail[6]
	☐	☐	☐	☐		☐[4]			☐	☐
	☐	☐	☐	☐		☐[4]			☐	☐
	☐	☐	☐	☐		☐[4]			☐	☐
	☐	☐	☐	☐		☐[4]			☐	☐
	☐	☐	☐	☐		☐[4]			☐	☐
	☐	☐	☐	☐		☐[4]			☐	☐

1. The CRRC Product ID Number can be obtained from the Cool Roof Rating Council's Rated Product Directory at www.coolroofs.org/products/search.php
2. Indicate the type of product is being used for the roof top, i.e. single-ply roof, asphalt roof, metal roof, etc.
3. If the Aged Reflectance is not available in the Cool Roof Rating Council's Rated Product Directory then use the Initial Reflectance value from the same directory and use the equation $(0.2+0.7(\rho_{initial}-0.2))$ to obtain a calculated aged value. Where ρ is the Initial Solar Reflectance from the Cool Roof Rating Council's Rated Product Directory.
4. Check box if the Aged Reflectance is a calculated value using the equation above.
5. The SRI value needs to be calculated from a spreadsheet calculator at http://www.energy.ca.gov/title24/
6. If Fail then describe on this page of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary.

To apply Liquid Field Applied Coatings, the coating must be applied across the entire roof surface and meet the dry mil thickness or coverage recommended by the coatings manufacturer and meet minimum performance requirements listed in §118(i)4. Select the applicable coating:

☐ Aluminum-Pigmented Asphalt Roof Coating ☐ Cement Based Roof Coating ☐ Other ________

Discrepancies:

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CERTIFICATE OF COMPLIANCE AND FIELD INSPECTION ENERGY CHECKLIST (Part 3 of 3) ENV-1C

Project Name: 120' x 40' Relocatable Bldg. - Climate Zone 14 — Date: 10/25/2011

Required Acceptance Tests

Designer:

This form is to be used by the designer and attached to the plans. Listed below is the acceptance test for Envelope Fenestrations system. The designer is required to check the acceptance tests and list all the fenestration products that require an acceptance test. If all the site-built fenestration of a certain type requires a test, list the different fenestration products and the number of systems. The NA7 Section in the Appendix of the Nonresidential Reference Appendices Manual describes the test. Since this form will be part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately.

Enforcement Agency:

Systems Acceptance. Before Occupancy Permit is granted for a newly constructed building or space or whenever new fenestration is installed in the building or space shall be certified as meeting the Acceptance Requirements. The ENV-2A form is not considered a complete form and is not to be accepted by the enforcement agency unless the boxes are checked and/or filled and signed. In addition, a Certificate of Acceptance forms shall be submitted to the enforcement agency that certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of §10-103(b) of Title 24 Part 6. The field inspector must receive the properly filled out and signed forms before the building can receive final occupancy. A copy of the ENV-2A for each different fenestration product line must be provided to the owner of the building for their records.

Test Description: Fenestration Products Name or ID Requiring Testing or Verification	Area of like Products	ENV-2A Building Envelope Acceptance Test	Test Performed By:
All Weather Tinted/Solarban 60	320	☒	
		☐	
		☐	
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APPROVED
DIVISION OF STATE ARCHITECT
HIGH PERFORMANCE SECTION
APP.# 02-112210 DATE: 2/15/12

ENERGY CALCULATIONS — A

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

MODULAR MANUFACTURER PROPRIETARY STATEMENT

THESE DRAWINGS AND THE MATERIAL CONTAINED THEREIN ARE THE PROPERTY OF AMERICAN MODULAR SYSTEMS, INC. (AMS) 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 FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF AMS. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH AMS SHALL BE THE SOLE PROPERTY OF AMS.

PRE-CHECKED SET NAME
24' x 40' THRU 120' x 40' RELOCATABLE BUILDINGS

SITE SPECIFIC PROJECT NAME
AMS 24' x 40' STOCKPILE
(50) 24' x 40' RELOCATABLE BUILDINGS

SHEET TITLE
ENERGY CALCULATIONS

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — RANDALL PATRICK CAVANAGH — No. C12631 — Ren. 3-31-13 — STATE OF CALIFORNIA

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
02 114730
AC ___ FLS ___ SS ___
DATE 3-14-16

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
02 113081
AC ___ FLS ___ SS ___
DATE 12/14

ORIGINAL PC STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
PC 02-112210
AC ___ FLS ___ SS ___
DATE 2/17/12

PRE-CHECK (PC) DOCUMENT - CODE: 2010 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

REVISIONS

DRAWN BY:
SCALE: AS NOTED
DATE:

SHEET NUMBER

EN1

CERTIFICATE OF COMPLIANCE (Part 1 of 3) LTG-1C

Project Name: 120' x 40' Relocatable Bldg. - Climate Zone 14 | Date: 10/25/2011

INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

Installation Certificate, LTG-1- INST (Retain a copy and verify form is completed and signed.) — Field Inspector ☐
Certificate of Acceptance, LTG-2A and LTG-3A (Retain a copy and verify form is completed and signed.) — Field Inspector ☐

A separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces Installed Lighting Power listed on this Lighting Schedule is only for:

☒ CONDITIONED SPACE ☐ UNCONDITIONED SPACE

☒ The actual indoor lighting power listed below includes all installed permanent and portable lighting systems in accordance with §146(a).

☒ Only for offices: Up to the first 0.2 watts per square foot of portable lighting shall not be required to be included in the calculation of actual indoor lighting power density in accordance with the Exception to §146(a). All portable lighting in excess of 0.2 watts per square foot is totaled below.

A: Name or Item Tag	B: Complete Luminaire Description[1] (i.e. 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	C	D: Watts per Luminaire[1]	E: CEC Default From NA8	E: According To §130 (d or e)	F: Number of Luminaires	G: Installed Watts (D X F)	H: Pass	H: Fail
6	(3) 4 ft F32T8 Elec		67.0	☐	☒	50	3,350	☐	☐

Installed Watts Page Total: 3,350
Building total number of pages: | Installed Watts Building Total (Sum of all pages): 3,350
Enter into LTG-1C Page 4 of 4

1. Wattage shall be determined according to Section 130 (d and e). Wattage shall be rating of light fixture, not rating of bulb.
2. If Fail then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary.

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CERTIFICATE OF COMPLIANCE (Part 2 of 3) LTG-1C

Project Name: 120' x 40' Relocatable Bldg. - Climate Zone 14 | Date: 10/25/2011

INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

Fill in controls for all spaces: a) area controls, b) multi-level controls, c) manual daylighting controls for daylit areas > 250 ft², automatic daylighting controls for daylit areas > 2,500 ft², d) shut-off controls, e) display lighting controls, f) tailored lighting controls – general lighting controlled separately from display, ornamental and display case lighting and g) demand responsive automatic controls for retail spaces > 50,000 ft², in accordance with Section 131.

MANDATORY LIGHTING CONTROLS – FIELD INSPECTION ENERGY CHECKLIST

Type/ Description	Number of Units	Location in Building	Special Features	Field Inspector Pass	Field Inspector Fail
			☐	☐	☐

SPECIAL FEATURES INSPECTION CHECKLIST (See Page 2 of 4 of LTG-1C)

The local enforcement agency should pay special attention to the items specified in this checklist. These items require special written justification and documentation, and special verification. The local enforcement agency determines the adequacy of the justification, and may reject a building or design that otherwise complies based on the adequacy of the special justification and documentation submitted.

Field Inspector's Notes or Discrepancies:

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CERTIFICATE OF COMPLIANCE (Part 3 of 3) LTG-1C

Project Name: 120' x 40' Relocatable Bldg. - Climate Zone 14 | Date: 10/25/2011

CONDITIONED AND UNCONDITIONED SPACE LIGHTING MUST NOT BE COMBINED FOR COMPLIANCE

Indoor Lighting Power for Conditioned Spaces		Watts	Indoor Lighting Power for Unconditioned Spaces		Watts
Installed Lighting (from Conditioned LTG-1C, Page 2)		3,350	Installed Lighting (from Unconditioned LTG-1C, Page 2)		0
Lighting Control Credit Conditioned Spaces (from LTG-2C)	-	670	Lighting Control Credit Unconditioned Spaces (from LTG-2C)	-	0
Adjusted Installed Lighting Power	=	2,680	Adjusted Installed Lighting Power	=	0
Complies if Installed ≤ Allowed		↕	Complies if Installed ≤ Allowed		↕
Allowed Lighting Power Conditioned Spaces (from LTG-3C or PERF-1)		2,680	Allowed Lighting Power Unconditioned Spaces (from LTG-3C)		0

Required Acceptance Tests

Designer:
This form is to be used by the designer and attached to the plans. Listed below is the acceptance test for the Lighting system, LTG-2A and LTG-3A. The designer is required to check the acceptance tests and list all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance. If all the lighting system or control of a certain type requires a test, list the different lighting and the number of systems. The NA7 Section in the Appendix of the Nonresidential Reference Appendices Manual describes the test. Since this form will be part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately. **Forms can be grouped by type of Luminaire controlled.**

Enforcement Agency:
Systems Acceptance. Before Occupancy Permit is granted for a newly constructed building or space or when ever new lighting system with controls is installed in the building or space shall be certified as meeting the Acceptance Requirements.
The **LTG-2A and LTG-3A** forms are not considered complete forms and are not to be accepted by the enforcement agency unless the boxes are checked and/or filled and signed. In addition, a Certificate of Acceptance forms shall be submitted to the enforcement agency that certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of §10-103(b) of Title 24 Part 6. The field inspector must receive the properly filled out and signed forms before the building can receive final occupancy. A copy of the **LTG-2A and LTG-3A** for each different lighting luminaire control(s) must be provided to the owner of the building for their records.

Equipment Requiring Testing	Luminaires Controlled: Description	Number of Luminaires controlled	Location	LTG-2A and LTG-3A: Controls and Sensors and Automatic Daylighting Controls Acceptance
Occ Sensor - Multi-Level	(3) 4 ft F32T8 Elec	10	Classroom 1	☒
Occ Sensor - Multi-Level	(3) 4 ft F32T8 Elec	10	Classroom 2	☒
Occ Sensor - Multi-Level	(3) 4 ft F32T8 Elec	10	Classroom 3	☒
Occ Sensor - Multi-Level	(3) 4 ft F32T8 Elec	10	Classroom 4	☒
Occ Sensor - Multi-Level	(3) 4 ft F32T8 Elec	10	Classroom 5	☒

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CERTIFICATE OF COMPLIANCE and FIELD INSPECTION ENERGY CHECKLIST (Part 1 of 4) MECH-1C

Project Name: 120' x 40' Relocatable Bldg. - Climate Zone 14 | Date: 10/25/2011
Project Address: 0 Degree Rotation | Climate Zone: 14 | Total Cond. Floor Area: 4,740 | Addition Floor Area: n/a

GENERAL INFORMATION
Building Type: ☒ Nonresidential ☐ High-Rise Residential ☐ Hotel/Motel Guest Room
☐ Schools (Public School) ☐ Relocatable Public School Bldg. ☒ Conditioned Spaces ☐ Unconditioned Spaces (affidavit)
Phase of Construction: ☒ New Construction ☐ Addition ☐ Alteration
Approach of Compliance: ☐ Component ☐ Overall Envelope TDV Energy ☐ Unconditioned (file affidavit)
Front Orientation: N, E, S, W or In Degrees: 0 deg

HVAC SYSTEM DETAILS

Equipment[2]	Inspection Criteria	Pass	Fail – Describe Reason[2]
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	DHW Heater	☐	☐
Equipment Type[3]:	Electric Res DHW Boiler	☐	☐
Number of Systems	5	☐	☐
Max Allowed Heating Capacity[1]	15,358 Btu/hr	☐	☐
Minimum Heating Efficiency[1]	0.91 EF	☐	☐
Max Allowed Cooling Capacity[1]	n/a	☐	☐
Cooling Efficiency[1]	n/a	☐	☐
Duct Location/ R-Value	n/a	☐	☐
When duct testing is required, submit MECH-4A & MECH-4-HERS	n/a	☐	☐
Economizer	n/a	☐	☐
Thermostat	n/a	☐	☐
Fan Control	n/a	☐	☐

Equipment[2]	Inspection Criteria	Pass	Fail – Describe Reason[2]
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	HP-1	☐	☐
Equipment Type[3]:	Room PTAC	☐	☐
Number of Systems	1	☐	☐
Max Allowed Heating Capacity[1]	42,000 Btu/hr	☐	☐
Minimum Heating Efficiency[1]	3.00 COP	☐	☐
Max Allowed Cooling Capacity[1]	46,000 Btu/hr	☐	☐
Cooling Efficiency[1]	9.0 EER	☐	☐
Duct Location/ R-Value	Attic, Ceiling Ins, vented / 8.0	☐	☐
When duct testing is required, submit MECH-4A & MECH-4-HERS	No	☐	☐
Economizer	No Economizer	☐	☐
Thermostat	No Setback Required	☐	☐
Fan Control	Constant Volume	☐	☐

1. If the Actual installed equipment performance efficiency and capacity is less than the Proposed (from the energy compliance submittal or from the building plans) the responsible party shall resubmit energy compliance to include the new changes.
2. For additional detailed discrepancy use Page 2 of the Inspection Checklist Form. Compliance fails if a Fail box is checked.
3. Indicate Equipment Type: Gas (Pkg or, Split), VAV, HP (Pkg or split), Hydronic, PTAC, or other.

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CERTIFICATE OF COMPLIANCE and FIELD INSPECTION ENERGY CHECKLIST (Part 1 of 4) MECH-1C

Project Name: 120' x 40' Relocatable Bldg. - Climate Zone 14 | Date: 10/25/2011
Project Address: 0 Degree Rotation | Climate Zone: 14 | Total Cond. Floor Area: 4,740 | Addition Floor Area: n/a

GENERAL INFORMATION
Building Type: ☒ Nonresidential ☐ High-Rise Residential ☐ Hotel/Motel Guest Room
☐ Schools (Public School) ☐ Relocatable Public School Bldg. ☒ Conditioned Spaces ☐ Unconditioned Spaces (affidavit)
Phase of Construction: ☒ New Construction ☐ Addition ☐ Alteration
Approach of Compliance: ☐ Component ☐ Overall Envelope TDV Energy ☐ Unconditioned (file affidavit)
Front Orientation: N, E, S, W or In Degrees: 0 deg

HVAC SYSTEM DETAILS

Equipment[2]	Inspection Criteria	Pass	Fail – Describe Reason[2]
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	HP-2	☐	☐
Equipment Type[3]:	Room PTAC	☐	☐
Number of Systems	1	☐	☐
Max Allowed Heating Capacity[1]	42,000 Btu/hr	☐	☐
Minimum Heating Efficiency[1]	3.00 COP	☐	☐
Max Allowed Cooling Capacity[1]	46,000 Btu/hr	☐	☐
Cooling Efficiency[1]	9.0 EER	☐	☐
Duct Location/ R-Value	Attic, Ceiling Ins, vented / 8.0	☐	☐
When duct testing is required, submit MECH-4A & MECH-4-HERS	No	☐	☐
Economizer	No Economizer	☐	☐
Thermostat	No Setback Required	☐	☐
Fan Control	Constant Volume	☐	☐

Equipment[2]	Inspection Criteria	Pass	Fail – Describe Reason[2]
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	HP-3	☐	☐
Equipment Type[3]:	Room PTAC	☐	☐
Number of Systems	1	☐	☐
Max Allowed Heating Capacity[1]	42,000 Btu/hr	☐	☐
Minimum Heating Efficiency[1]	3.00 COP	☐	☐
Max Allowed Cooling Capacity[1]	46,000 Btu/hr	☐	☐
Cooling Efficiency[1]	9.0 EER	☐	☐
Duct Location/ R-Value	Attic, Ceiling Ins, vented / 8.0	☐	☐
When duct testing is required, submit MECH-4A & MECH-4-HERS	No	☐	☐
Economizer	No Economizer	☐	☐
Thermostat	No Setback Required	☐	☐
Fan Control	Constant Volume	☐	☐

1. If the Actual installed equipment performance efficiency and capacity is less than the Proposed (from the energy compliance submittal or from the building plans) the responsible party shall resubmit energy compliance to include the new changes.
2. For additional detailed discrepancy use Page 2 of the Inspection Checklist Form. Compliance fails if a Fail box is checked.
3. Indicate Equipment Type: Gas (Pkg or, Split), VAV, HP (Pkg or split), Hydronic, PTAC, or other.

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CERTIFICATE OF COMPLIANCE and FIELD INSPECTION ENERGY CHECKLIST (Part 1 of 4) MECH-1C

Project Name: 120' x 40' Relocatable Bldg. - Climate Zone 14 | Date: 10/25/2011
Project Address: 0 Degree Rotation | Climate Zone: 14 | Total Cond. Floor Area: 4,740 | Addition Floor Area: n/a

GENERAL INFORMATION
Building Type: ☒ Nonresidential ☐ High-Rise Residential ☐ Hotel/Motel Guest Room
☐ Schools (Public School) ☐ Relocatable Public School Bldg. ☒ Conditioned Spaces ☐ Unconditioned Spaces (affidavit)
Phase of Construction: ☒ New Construction ☐ Addition ☐ Alteration
Approach of Compliance: ☐ Component ☐ Overall Envelope TDV Energy ☐ Unconditioned (file affidavit)
Front Orientation: N, E, S, W or In Degrees: 0 deg

HVAC SYSTEM DETAILS

Equipment[2]	Inspection Criteria	Pass	Fail – Describe Reason[2]
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	HP-4	☐	☐
Equipment Type[3]:	Room PTAC	☐	☐
Number of Systems	1	☐	☐
Max Allowed Heating Capacity[1]	42,000 Btu/hr	☐	☐
Minimum Heating Efficiency[1]	3.00 COP	☐	☐
Max Allowed Cooling Capacity[1]	46,000 Btu/hr	☐	☐
Cooling Efficiency[1]	9.0 EER	☐	☐
Duct Location/ R-Value	Attic, Ceiling Ins, vented / 8.0	☐	☐
When duct testing is required, submit MECH-4A & MECH-4-HERS	No	☐	☐
Economizer	No Economizer	☐	☐
Thermostat	No Setback Required	☐	☐
Fan Control	Constant Volume	☐	☐

Equipment[2]	Inspection Criteria	Pass	Fail – Describe Reason[2]
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	HP-5	☐	☐
Equipment Type[3]:	Room PTAC	☐	☐
Number of Systems	1	☐	☐
Max Allowed Heating Capacity[1]	42,000 Btu/hr	☐	☐
Minimum Heating Efficiency[1]	3.00 COP	☐	☐
Max Allowed Cooling Capacity[1]	46,000 Btu/hr	☐	☐
Cooling Efficiency[1]	9.0 EER	☐	☐
Duct Location/ R-Value	Attic, Ceiling Ins, vented / 8.0	☐	☐
When duct testing is required, submit MECH-4A & MECH-4-HERS	No	☐	☐
Economizer	No Economizer	☐	☐
Thermostat	No Setback Required	☐	☐
Fan Control	Constant Volume	☐	☐

1. If the Actual installed equipment performance efficiency and capacity is less than the Proposed (from the energy compliance submittal or from the building plans) the responsible party shall resubmit energy compliance to include the new changes.
2. For additional detailed discrepancy use Page 2 of the Inspection Checklist Form. Compliance fails if a Fail box is checked.
3. Indicate Equipment Type: Gas (Pkg or, Split), VAV, HP (Pkg or split), Hydronic, PTAC, or other.

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CERTIFICATE OF COMPLIANCE and FIELD INSPECTION ENERGY CHECKLIST (Part 2 of 4) MECH-1C

Project Name: 120' x 40' Relocatable Bldg. - Climate Zone 14 | Date: 10/25/2011

Discrepancies:

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CERTIFICATE OF COMPLIANCE and FIELD INSPECTION ENERGY CHECKLIST (Part 3 of 4) MECH-1C

Project Name: 120' x 40' Relocatable Bldg. - Climate Zone 14 | Date: 10/25/2011

Required Acceptance Tests

Designer:
This form is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for mechanical systems. The designer is required to check the applicable boxes by all acceptance tests that apply and listed all equipment that requires an acceptance test. If all equipment of a certain type requires a test, list the equipment description and the number of systems. The NA number designates the Section in the Appendix of the Nonresidential Reference Appendices Manual that describes the test. Since this form will be part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately.

Building Departments:
Systems Acceptance: Before occupancy permit is granted for a newly constructed building or space, or a new space-conditioning system serving a building or space is operated for normal use, all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance.
Systems Acceptance: Before occupancy permit is granted. All newly installed HVAC equipment must be tested using the Acceptance Requirements.

The MECH-1C form is not considered a completed form and is not to be accepted by the building department unless the correct boxes are checked. The equipment requiring testing, person performing the test (Example: HVAC installer, TAB contractor, controls contractor, PE in charge of project) and what Acceptance test must be conducted. The following checked-off forms are required for ALL newly installed equipment. In addition a Certificate of Acceptance forms shall be submitted to the building department that certifies plans, specifications, installation, certificates, and operating and maintenance information meet the requirements of §10-103(b) and Title-24 Part 6. The building inspector must receive the properly filled out and signed forms before the building can receive final occupancy.

Equipment Requiring Testing or Verification	Qty.	MECH-2A Outdoor Ventilation For VAV & CAV	MECH-3A Constant Volume & Single-Zone Unitary	MECH-4A Air Distribution Ducts	MECH-5A Economizer Controls	MECH-6A Demand Control Ventilation DCV	MECH-7A Supply Fan VAV	MECH-8A Valve Leakage Test	MECH-9A Supply Water Temp Reset	MECH-10A Hydronic System Variable Flow Control	MECH-11A Automatic Demand Shed Control
Bard WH[illegible]	[illegible]	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐

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APPROVED
DIVISION OF STATE ARCHITECT
HIGH PERFORMANCE SECTION
APP.# 02-112210 DATE: 2/15/12

ENERGY CALCULATIONS | A

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

PRE-CHECKED SET NAME
24' x 40' THRU 120' x 40' RELOCATABLE BUILDINGS

SITE SPECIFIC PROJECT NAME
AMS 24' x 40' STOCKPILE
(50) 24' x 40" RELOCATABLE BUILDINGS

SHEET TITLE
ENERGY CALCULATIONS

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT · No. C12631 · Ren. 3-31-13 · STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
02 114730
AC — FLS — SS
DATE 3-9-16

PROJECT SPECIFIC STATE AGENCY APPROVAL
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
02 113861
AC FLS SS
DATE 11/25/14

ORIGINAL PC STATE AGENCY APPROVAL
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 02-112210
AC FLS SS
DATE 2/17/12

PRE-CHECK (PC) DOCUMENT - CODE: 2010 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

REVISIONS
1
2
3
4

DRAWN BY:
SCALE: AS NOTED
DATE:

SHEET NUMBER
EN2

CERTIFICATE OF COMPLIANCE and FIELD INSPECTION ENERGY CHECKLIST (Part 4 of 4) MECH-1C

Project Name: 120' x 40' Relocatable Bldg. - Climate Zone 14 | Date: 10/25/2011

TEST DESCRIPTION

Equipment Requiring Testing	Qty.	MECH-12A Fault Detection & Diagnostics for DX Units	MECH-13A Automatic Fault Detection & Diagnostics for Air & Zone	MECH-14A Distributed Energy Storage DX AC Systems	MECH-15A Thermal Energy Storage (TES) Systems	Test Performed By:
Bard W48H1	5	☐	☐	☐	☐	

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LIGHTING CONTROLS CREDIT WORKSHEET (Part 1 of 2) LTG-2C

Project Name: 120' x 40' Relocatable Bldg. - Climate Zone 14 | Date: 10/25/2011

POWER ADJUSTMENT FACTORS (PAF) FOR NON-DAYLIGHT CONTROLS

A Separate PAF Worksheet Must Be Filled Out for Conditioned and Unconditioned Spaces. Control Credits listed on this schedule are only for:

☒ CONDITIONED SPACES ☐ UNCONDITIONED SPACES

A Room # Zone ID Areas	B Lighting Control Description[1]	C Plan Reference	D Room Area (ft²)	E Watts of Control Lighting	F Power Adjustment Factor[2]	G Control Credit Watts (E x F)
Classroom 1	Occ Sensor - Multi-Level	8	949	670	0.20	134
Classroom 2	Occ Sensor - Multi-Level	8	949	670	0.20	134
Classroom 3	Occ Sensor - Multi-Level	8	949	670	0.20	134
Classroom 4	Occ Sensor - Multi-Level	8	949	670	0.20	134
Classroom 5	Occ Sensor - Multi-Level	8	949	670	0.20	134

PAGE TOTAL: 670

Note: Conditioned and Unconditioned Space shall be separately totaled.

Building total of non-daylight control credit watts for all pages of LTG-2C Page 1 of 2	670
Enter building total of all daylight controls credit watts from LTG-2C Page 2 of 2	0
BUILDING TOTAL OF ALL CONTROL CREDIT WATTS (FOR BOTH NON-DAYLIGHT AND DAYLIGHT CONTROL CREDITS) Enter in LTG-1C; Page 4: Lighting Control Credit as appropriate for CONDITIONED or UNCONDITIONED Spaces	670

1. Description shall be consistent with Type of Control defined in Table 146-C
2. Power Adjustment Factor taken from Table 146-C

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AIR SYSTEM REQUIREMENTS (Part 1 of 2) MECH-2C

Project Name: 120' x 40' Relocatable Bldg. - Climate Zone 14 | Date: 10/25/2011

Item or System Tags (i.e. AC-1, RTU-1, HP-1)		HP-1	HP-2	HP-3
Number of Systems		1	1	1
MANDATORY MEASURES	T-24 Sections	Indicate Page Reference on Plans or Schedule and Indicate the applicable exception(s)		
Heating Equipment Efficiency	112(a)	3.00 COP	3.00 COP	3.00 COP
Cooling Equipment Efficiency	112(a)	9.0 EER	9.0 EER	9.0 EER
HVAC Heat Pump Thermostat	112(b), 112(c)	Yes	Yes	Yes
Furnace Controls/Thermostat	112(c), 115(a)	n/a	n/a	n/a
Natural Ventilation	121(b)	No	No	No
Mechanical Ventilation	121(b)	474 cfm	474 cfm	474 cfm
VAV Minimum Position Control	121(c)	No	No	No
Demand Control Ventilation	121(c)	No	No	No
Time Control	122(e)	Programmable Switch	Programmable Switch	Programmable Switch
Setback and Setup Control	122(e)	No Setback Required	No Setback Required	No Setback Required
Outdoor Damper Control	122(f)	Auto	Auto	Auto
Isolation Zones	122(g)	n/a	n/a	n/a
Pipe Insulation	123			
Duct Location/ R-value	124	Attic, Ceiling Ins, vented / 8.0	Attic, Ceiling Ins, vented / 8.0	Attic, Ceiling Ins, vented / 8.0
PRESCRIPTIVE MEASURES				
Calculated Design Heating Load	144(a & b)	n/a	n/a	n/a
Proposed Heating Capacity	144(a & b)	18,775 Btu/hr	18,775 Btu/hr	18,775 Btu/hr
Calculated Design Cooling Load	144(a & b)	n/a	n/a	n/a
Proposed Cooling Capacity	144(a & b)	41,363 Btu/hr	41,354 Btu/hr	41,354 Btu/hr
Fan Control	144(c)	Constant Volume	Constant Volume	Constant Volume
DP Sensor Location	144(c)			
Supply Pressure Reset (DDC only)	144(c)	Yes	Yes	Yes
Simultaneous Heat/Cool	144(d)	No	No	No
Economizer	144(e)	No Economizer	No Economizer	No Economizer
Heat Air Supply Reset	144(f)	Constant Temp	Constant Temp	Constant Temp
Cool Air Supply Reset	144(f)	Constant Temp	Constant Temp	Constant Temp
Electric Resistance Heating[1]	144(g)			
Air Cooled Chiller Limitation	144(i)			
Duct Leakage Sealing. If Yes, a MECH-4-A must be submitted	144(k)	No	No	No

1. Total installed capacity (MBtu/hr) of all electric heat on this project exclusive of electric auxiliary heat for heat pumps. If electric heat is used explain which exception(s) to §144(g) apply.

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AIR SYSTEM REQUIREMENTS (Part 1 of 2) MECH-2C

Project Name: 120' x 40' Relocatable Bldg. - Climate Zone 14 | Date: 10/25/2011

Item or System Tags (i.e. AC-1, RTU-1, HP-1)		HP-4	HP-5	
Number of Systems		1	1	
MANDATORY MEASURES	T-24 Sections	Indicate Page Reference on Plans or Schedule and Indicate the applicable exception(s)		
Heating Equipment Efficiency	112(a)	3.00 COP	3.00 COP	
Cooling Equipment Efficiency	112(a)	9.0 EER	9.0 EER	
HVAC Heat Pump Thermostat	112(b), 112(c)	Yes	Yes	
Furnace Controls/Thermostat	112(c), 115(a)	n/a	n/a	
Natural Ventilation	121(b)	No	No	
Mechanical Ventilation	121(b)	474 cfm	474 cfm	
VAV Minimum Position Control	121(c)	No	No	
Demand Control Ventilation	121(c)	No	No	
Time Control	122(e)	Programmable Switch	Programmable Switch	
Setback and Setup Control	122(e)	No Setback Required	No Setback Required	
Outdoor Damper Control	122(f)	Auto	Auto	
Isolation Zones	122(g)	n/a	n/a	
Pipe Insulation	123			
Duct Location/ R-value	124	Attic, Ceiling Ins, vented / 8.0	Attic, Ceiling Ins, vented / 8.0	
PRESCRIPTIVE MEASURES				
Calculated Design Heating Load	144(a & b)	n/a	n/a	
Proposed Heating Capacity	144(a & b)	18,775 Btu/hr	18,775 Btu/hr	
Calculated Design Cooling Load	144(a & b)	n/a	n/a	
Proposed Cooling Capacity	144(a & b)	41,354 Btu/hr	41,360 Btu/hr	
Fan Control	144(c)	Constant Volume	Constant Volume	
DP Sensor Location	144(c)			
Supply Pressure Reset (DDC only)	144(c)	Yes	Yes	
Simultaneous Heat/Cool	144(d)	No	No	
Economizer	144(e)	No Economizer	No Economizer	
Heat Air Supply Reset	144(f)	Constant Temp	Constant Temp	
Cool Air Supply Reset	144(f)	Constant Temp	Constant Temp	
Electric Resistance Heating[1]	144(g)			
Air Cooled Chiller Limitation	144(i)			
Duct Leakage Sealing. If Yes, a MECH-4-A must be submitted	144(k)	No	No	

1. Total installed capacity (MBtu/hr) of all electric heat on this project exclusive of electric auxiliary heat for heat pumps. If electric heat is used explain which exception(s) to §144(g) apply.

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WATER SIDE SYSTEM REQUIREMENTS (Part 2 of 2) MECH-2C

Project Name: 120' x 40' Relocatable Bldg. - Climate Zone 14 | Date: 10/25/2011

		WATER[2] SIDE SYSTEMS: Chillers, Towers, Boilers, Hydronic Loops		
Item or System Tags (i.e. AC-1, RTU-1, HP-1)[1]				
Number of Systems				
		Indicate Page Reference on Plans or Specification[2]		
MANDATORY MEASURES	T-24 Sections			
Equipment Efficiency	112(a)			
Pipe Insulation	123			
PRESCRIPTIVE MEASURES				
Cooling Tower Fan Controls	144(a & b)			
Cooling Tower Flow Controls	144(h)			
Variable Flow System Design	144(j)			
Chiller and Boiler Isolation	144(j)			
CHW and HHW Reset Controls	144(j)			
WLHP Isolation Valves	144(j)			
VSD on CHW, CW & WLHP Pumps>5HP	144(j)			
DP Sensor Location	144(j)			

1. The proposed equipment need to match the building plans schedule or specifications. If a requirement is not applicable, put "N/A" in the column next to applicable section.
2. For each chiller, cooling tower, boiler, and hydronic loop (or groups of similar equipment) fill in the reference to sheet number and/or specification section and paragraph number where the required features are documented. If a requirement is not applicable, put "N/A" in the column next to applicable section.

		Service Hot Water, Pool Heating		
Item or System Tags (i.e. WH-1, WHP, DHW, etc...)[1]		DHW Heater		
Number of Systems		5		
		Indicate Page Reference on Plans or Schedule[2]		
MANDATORY MEASURES	T-24 Sections			
SERVICE HOT WATER				
Certified Water Heater	111, 113(a)	20 Gallon Electric		
Water Heater Efficiency	113(b)	0.91 EF		
Service Water Heating Installation	113(c)	Controls Req.		
Pipe Insulation	123	n/a		
POOL AND SPA				
Pool and Spa Efficiency and Control	114(a)	n/a		
Pool and Spa Installation	114(b)	n/a		
Pool Heater – No Pilot Light	115(c)	n/a		
Spa Heater – No Pilot Light	115(d)	n/a		
Pipe Insulation	123	Required		

1. The Proposed equipment needs to match the building plans schedule or specifications. If a requirement is not applicable, put "N/A" in the column next to applicable section.
2. For each water heater, pool heater and domestic water loop (or groups of similar equipment) fill in the reference to sheet number and/or specification section and paragraph number where the required features are documented. If a requirement is not applicable, put "N/A" in the column.

EnergyPro 5.1 by EnergySoft | User Number: 5266 | RunCode: 2011-10-25T09:20:41 | ID: 111011.00 | Page 23 of 28

MECHANICAL VENTILATION AND REHEAT MECH-3C

Project Name: 120' x 40' Relocatable Bldg. - Climate Zone 14 | Date: 10/25/2011

MECHANICAL VENTILATION (§121(b)2) — AREA BASIS / OCCUPANCY BASIS; REHEAT LIMITATION (§144(d)) — VAV MINIMUM

A Zone/System	B Condition Area (ft²)	C CFM per ft²	D Min CFM By Area B X C	E Number Of People	F CFM per Person	G Min CFM by Occupant E X F	H REQ'D V.A. Max of D or G	I Design Ventilation Air CFM	J 50% of Design Zone Supply CFM	K B X 0.4 CFM / ft²	L Max. of Columns H, J, K, 300 CFM	M Design Minimum Air Setpoint	N Transfer Air
CLASSROOM 1	949	0.38	360	31.6	15.0	474	474	474					
HP-1						Total	474	474					
CLASSROOM 2	949	0.38	360	31.6	15.0	474	474	474					
HP-2						Total	474	474					
CLASSROOM 3	949	0.38	360	31.6	15.0	474	474	474					
HP-3						Total	474	474					
CLASSROOM 4	949	0.38	360	31.6	15.0	474	474	474					
HP-4						Total	474	474					
CLASSROOM 5	949	0.38	360	31.6	15.0	474	474	474					
HP-5						Total	474	474					

Totals | Column I Total Design Ventilation Air

C	Minimum ventilation rate per Section §121, Table 121-A.
E	Based on fixed seat or the greater of the expected number of occupants and 50% of the CBC occupant load for egress purposes for spaces without fixed seating.
H	Required Ventilation Air (REQ'D V.A.) is the larger of the ventilation rates calculated on an AREA BASIS or OCCUPANCY BASIS (Column D or G).
I	Must be greater than or equal to H, or use Transfer Air (column N) to make up the difference.
J	Design fan supply CFM (Fan CFM x 50%); or the design zone outdoor airflow rate per §121.
K	Condition area (ft²) x 0.4 CFM / ft²; or
L	Maximum of Columns H, J, K, or 300 CFM
M	This must be less than or equal to Column L and greater than or equal to the sum of Columns H plus N.
N	Transfer Air must be provided where the Required Ventilation Air (Column H) is greater than the Design Minimum Air (Column M). Where required, transfer air must be greater than or equal to the difference between the Required Ventilation Air (Column H) and the Design Minimum Air (Column M), Column H minus M.

EnergyPro 5.1 by EnergySoft | User Number: 5266 | RunCode: 2011-10-25T09:20:41 | ID: 111011.00 | Page 24 of 28

MECHANICAL EQUIPMENT DETAILS (Part 1 of 2) MECH-5C

Project Name: 120' x 40' Relocatable Bldg. - Climate Zone 14 | Date: 10/25/2011

CHILLER AND TOWER SUMMARY

Equipment Name	Type	Qty.	Efficiency	Tons	PUMPS Qty.	GPM	BHP	Pump Control

DHW / BOILER SUMMARY

System Name	Type	Distribution	Qty.	Rated Input	Vol. (Gals)	Energy Factor or RE	Standby Loss or Pilot	Tank Ext. R-Value	Status
20 Gallon Electric	Small Elec	Kitchen Pipe Ins	5	15,358	19	0.91	n/a	n/a	New

MULTI-FAMILY CENTRAL WATER HEATING DETAILS

Control	Hot Water Pump Qty.	HP	Type	Hot Water Piping Length (ft) In Plenum	Outside	Buried	Add ½" Insulation
							☐
							☐
							☐

CENTRAL SYSTEM RATINGS

System Name	Type	Qty.	HEATING Output	Aux. kW	Efficiency	COOLING Output	Efficiency	Status
Bard W48H1	Room PTAC	5	42,000	0.0	3.00 COP	46,000	9.0 EER	New

CENTRAL SYSTEM FAN SUMMARY

System Name	Fan Type	Economizer Type	SUPPLY FAN CFM	BHP	RETURN FAN CFM	BHP
Bard W48H1	Constant Volume	No Economizer	1,650	0.40	none	

EnergyPro 5.1 by EnergySoft | User Number: 5266 | RunCode: 2011-10-25T09:20:41 | ID: 111011.00 | Page 25 of 28

APPROVED
DIVISION OF STATE ARCHITECT
HIGH PERFORMANCE SECTION
APP # 02-112210 DATE: 2/15/12
Reni Bowin C.E.P.E.

AMS

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

PRE-CHECKED SET NAME

24' x 40' THRU 120' x 40' RELOCATABLE BUILDINGS

SITE SPECIFIC PROJECT NAME

AMS 24' x 40' STOCKPILE
(50) 24' x 40" RELOCATABLE BUILDINGS

SHEET TITLE

ENERGY CALCULATIONS

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
RANDALL PATRICK
No. C12651
Ren. 3-31-13
STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
02 114730
AC — FLS — SS
DATE 3-9-16

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
02 113861
AC FLS SS
DATE 1/25/14

ORIGINAL PC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 02-112210
AC FLS SS
DATE 2/17/12

PRE-CHECK (PC) DOCUMENT - CODE: 2010 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

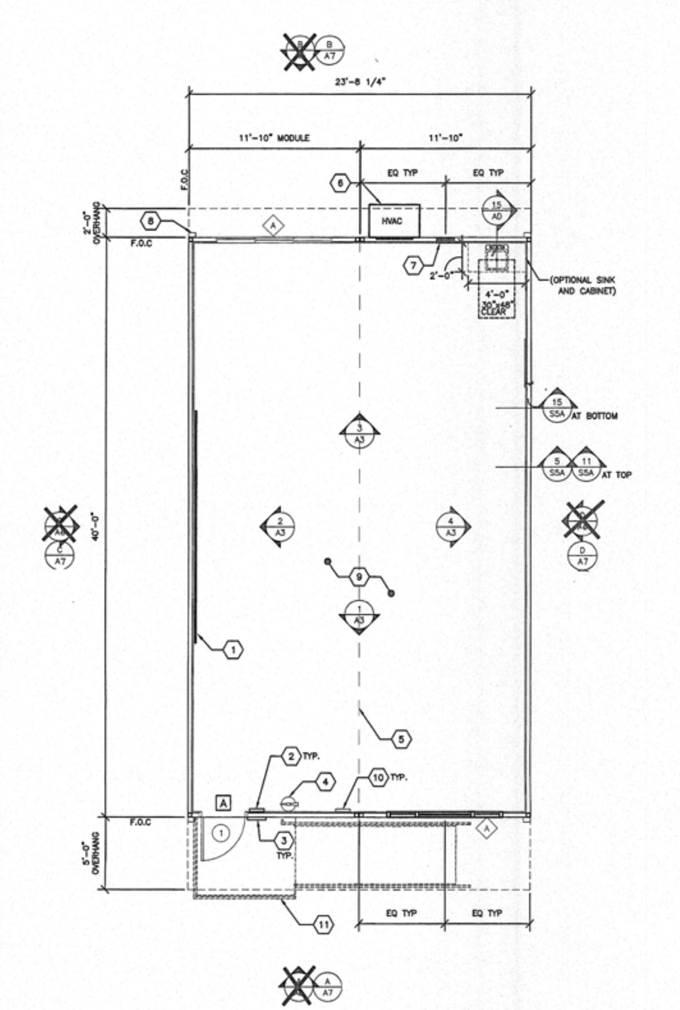
REVISIONS

1
2
3
4

DRAWN BY:
SCALE: AS NOTED
DATE:

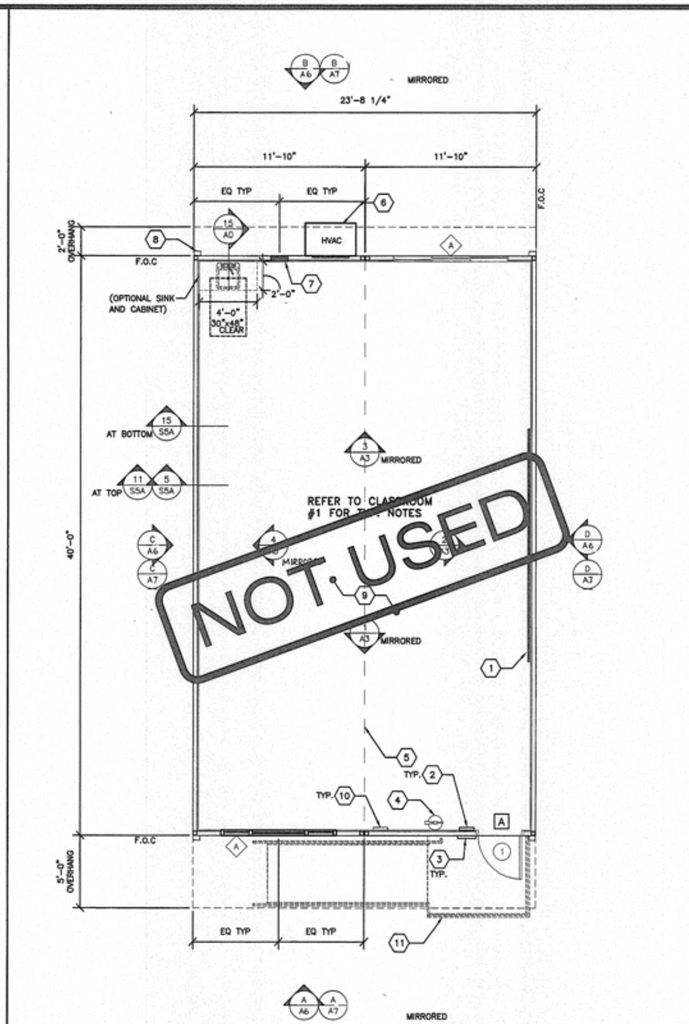
SHEET NUMBER

EN3



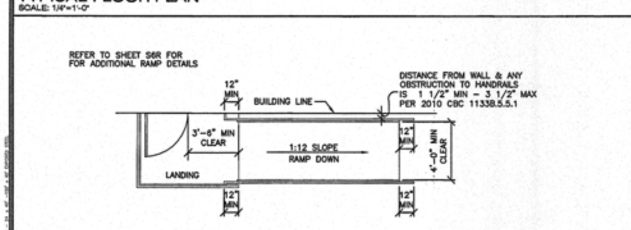
TYPICAL FLOOR PLAN — A

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



TYPICAL FLOOR PLAN — B

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



TYPICAL RAMP PLAN - OPTIONAL — C

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

PROJECT SPEC. BUILDING SIZE	BUILDING	40'-0" MODULES	OVERALL SIZE
☒	24' x 40'	2	23'-8 1/4"
☐	36' x 40'	3	35'-6 1/2"
☐	48' x 40'	4	47'-4 3/4"
☐	60' x 40'	5	59'-3"
☐	72' x 40'	6	71'-1 1/4"
☐	84' x 40'	7	82'-11 1/2"
☐	96' x 40'	8	94'-9 3/4"
☐	108' x 40'	9	106'-8"
☐	120' x 40'	10	118'-6 1/4"

DIMENSIONS ARE FROM FACE OF COLUMN TO FACE OF COLUMN

BUILDING SIZE SCHEDULE — 4

- (#) DOOR (REFER TO SHEET A3 FOR TYPES)
- [X] DOOR HARDWARE TYPE (REFER TO DOOR HARDWARE SCHEDULE)
- ◇ WINDOW (REFER TO SHEET A3 FOR TYPES)

SYMBOL SCHEDULE — 5

1. (2) 8'x4' MARKER BOARDS
2. EXIT TACTILE SIGN PER DETAIL 10/AD (BY OWNER)
3. CLASSROOM ID & ISA PER DETAIL PER DETAIL 5 & 9/AD (BY OWNER)
4. FIRE EXTINGUISHER UL 2A10 BC, TOP OF BRACKET @ +48" A.F.F. 4" MAX PROTRUSION FROM WALL IF FIRE EXTINGUISHER IS ABOVE 27" A.F.F
5. TYP MOD LINE
6. HVAC UNIT (LOCATION MAY VARY)
7. ELECTRICAL PANEL (LOCATION MAY VARY)
8. DOWNSPOUT (QUANITY & LOCATION MAY VARY) DISCHARGE TO SPLASH BLOCK (UON)
9. CARPET
10. FLOOR LIVE LOAD SIGN PER 1603.1.1 2010 CBC
11. OPTIONAL TYPICAL RAMP REFER TO SHEET S6R FOR DETAILS

SHEET NOTES — 1

1. REFER TO SHEETS A2 & A2.1 FOR ADDITIONAL FLOOR PLAN CONFIGURATIONS.
2. INTERIOR WALLS MAY OCCUR THROUGHOUT BUILDING REFER TO SHEET S5A FOR ATTACHMENTS.
3. PANIC HARDWARE IS REQUIRED TO BE INSTALLED WHEN THE CONFIGURATION OF ANY ROOM PROVIDES AN OCCUPANT LOAD OF 50 OR GREATER CBC 1008.1.9
4. IF OCCUPANCY LOAD EXCEEDS 50 PROVIDE A SECOND EXIT DOOR PER CBC TABLE 1015.1
5. PROVIDE OCCUPANT LOAD SIGN (BY OWNER) CAPACITY POSTING PER CBC SECTION 1004.3 TITLE 19 C.C.R. SECTION 3.3.0. THIS ROOM SHALL BE POST WITH A DURABLE SIGN NEAR THE MAIN EXIT FROM THE ROOM.

GENERAL NOTES — 2

A	EXTERIOR DOOR LOCKSET W/LEVER RHODES SCHLAGE ND95PD
B	EXTERIOR DOOR PANIC BAR W/ PULL ON EXTERIOR VON DUPRIN 22Lx230NL (REQUIRED WHEN OCCUPANT LOAD IS 50 OR MORE)
C	INTERIOR PASSAGE COPPER CREEK 6220-PASSAGE W/ADA LEVER
D	INTERIOR RESTROOM COPPER CREEK 6231-RESTROOM W/ADA LEVER
E	INTERIOR ENTRY/OFFICE COPPER CREEK 6241-ENTRY/OFFICE W/ADA LEVER
F	INTERIOR STOREROOM COPPER CREEK 6250-STOREROOM W/ADA LEVER
G	INTERIOR CLASSROOM COPPER CREEK 6260-CLASSROOM W/ADA LEVER

EXTERIOR DOOR

A) HINGES: HAGER 4-1/2X4-1/2 BUTTS, BB1279 US26D, 1-1/2 PAIR PAIR SCREW IN BARREL AND BALL BEARING DESIGN

B) CLOSER: NORTON 8500DA OR 8500BF SERIES, LCN 1460 DEL SERIES OR EQUAL. (5 LBS. MAX. PRESSURE) (15LBS. MAX PER FIRE DOORS)

C) WEATHERSTRIPPING: ALL EXTERIOR DOORS SHALL BE WEATHERSTRIPPED WITH PEMKO 299D, ULTRA WS007, AT DOOR JAMBS AND HEAD OR EQUAL

D) THRESHOLD: THRESHOLD SHALL BE PEMKO 271 AV 5" ALUMINUM WITH PEMKO 216 AV ULTRA TH042 DOOR BOTTOM.

*ADDITIONAL DOORS MAY BE REQUIRED BASED ON BUILDING LAYOUT.

DOOR HARDWARE TYPE SCHEDULE — 3

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

PRE-CHECKED SET NAME

24' x 40' THRU 120' x 40' RELOCATABLE BUILDINGS

SITE SPECIFIC PROJECT NAME

AMS 24' x 40' STOCKPILE
(50) 24' x 40" RELOCATABLE BUILDINGS

SHEET TITLE

TYPICAL FLOOR PLAN

MANUFACTURER PROFESSIONAL OF RECORD ON PC

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

02 114730

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

02 113861

ORIGINAL PC STATE AGENCY APPROVAL

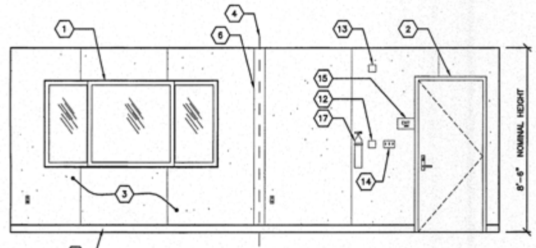
PRE-CHECK (PC) DOCUMENT - CODE 2010 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

REVISIONS

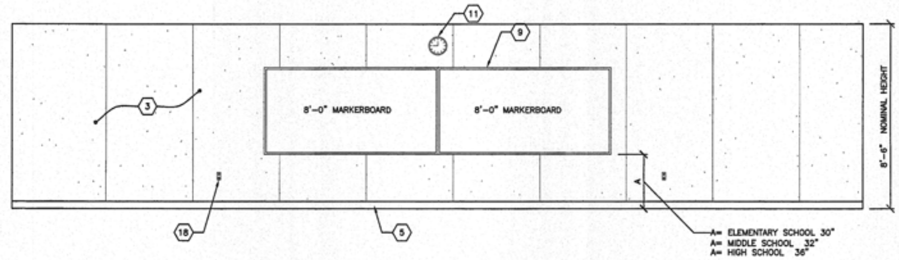
DRAWN BY	
SCALE.	AS NOTED
DATE.	

SHEET NUMBER

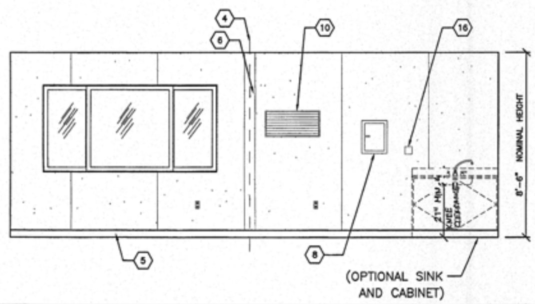
A1



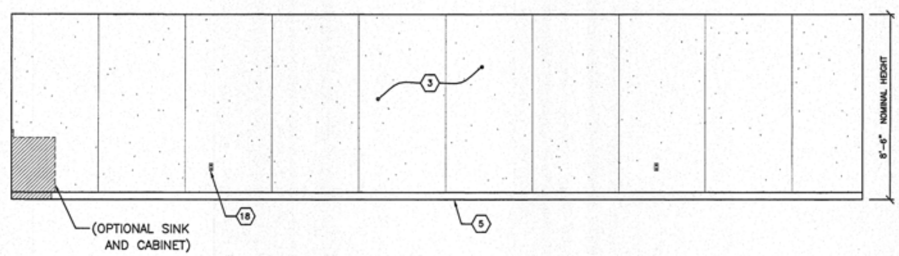
TYPICAL CLASSROOM FRONT END WALL ELEVATION — 1
SCALE: 3/8"=1'-0"



TYPICAL CLASSROOM SIDE WALL ELEVATION — 2
SCALE: 3/8"=1'-0"



TYPICAL CLASSROOM REAR END WALL ELEVATION — 3
SCALE: 3/8"=1'-0"



TYPICAL CLASSROOM SIDE WALL ELEVATION — 4
SCALE: 3/8"=1'-0"

KEY NOTES

1. WINDOW TYP.
2. TYP EXTERIOR DOOR
3. VINYL WRAPPED TACKABLE WALLS
4. TYP MOD LINE
5. TOP SET BASE
6. TRIM PIECE (FIELD INSTALL)
7. NOT USED
8. ELECTRICAL PANEL
9. (2) 4'x8' MARKER BOARDS
10. HVAC GRILL
11. CLOCK
12. PULL STATION J-BOX 48" A.F.F SEE ELECTRICAL SHEETS
13. HORN/STROBE J-BOX SEE ELECTRICAL SHEETS
14. LIGHT SWITCH SEE ELECTRICAL SHEETS
15. EXIT TACTILE SIGN PER DETAIL 10/AD (NIC)
16. THERMOSTAT 48" A.F.F SEE MECHANICAL SHEETS
17. FIRE EXTINGUISHER UL 2A10 BC, TOP OF BRACKET @ +48" A.F.F. 4" MAX PROTRUSION FROM WALL IF FIRE EXTINGUISHER IS ABOVE 27" A.F.F
18. TYP DUPLEX OUTLET (SEE ELECTRICAL SHEETS)

ROOM FINISHES SCHEDULE

ROOM NUMBER	ROOM NAME	FINISHES: FLOOR	BASE	WALLS: FRONT	REAR	RIGHT	LEFT	CEILING	CEILING HEIGHT	REMARKS
#1	CLASSROOM	A	D	F	F	F	F	J	8'-6"	
#2	CLASSROOM	A	D	F	F	F	F	J	8'-6"	

A – CARPET PER STATE OF CALIF SPEC COMPLYING WITH GROUP 1, TYPE A OR TYPE B, CLASS 2, DENSITY 4600, DIRECT GLUE DOWN.
B – VINYL SHEET FLOORING 0.6 MIN C.D.F. PER ASTM D 2047
C – VCT. ARMSTRONG STANDARD EXCELON
D – TOP SET BASE. 4" FLEXCO
E – TOP SET BASE. 6" FLEXCO
F – WALL FINISH. 1/2" VINYL TACKBOARD CLASS 1 OVER 1/2" GYP BOARD BACKING
G – 1/2" W.R. GYP BOARD. TAPE, TEXTURE, PAINTED FINISH
H – 1/2" GYP BOARD. TAPE, TEXTURE, PAINTED FINISH
I – 3/32" F.R.P. OVER 1/2" W.R. GYP BOARD
J – ACOUSTICAL LAY IN GRID CEILING PANELS (SEE SPECIFICATIONS)
K – 1/2" VINYL TACKBOARD CLASS 1 OVER 5/8" TYPE "X" GYP BOARD BACKING
L – 5/8" TYPE "X" GYP BOARD. TAPE, TEXTURE, PAINTED FINISH

DOOR SCHEDULE

DOORS: DOOR NO.	FRAME OPENING SIZE	DOOR TYPES	FRAME TYPE	HARDWARE SET NO.	QUANTITY	FRAMES: MATERIAL	HEAD DETAIL	JAMB DETAIL	REMARKS
1	3'-0 x 7'-0"	HM	F1	A	4	STL	9/A7A	8/A7A	

HM – HOLLOW METAL
AL – ALUMINUM
SST – STAINLESS STEEL
STL – STEEL FRAME. 16 ga. FULLY WELDED
WWF – WINDOW WALL FRAME
SC – SOLID CORE WOOD
HC – HOLLOW CORE WOOD

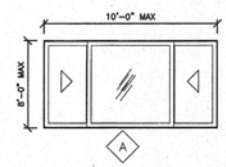
*CLASSROOMS > 1000 S.F WILL RE'Q PANIC HARDWARE PER CBC 1008.1.9

NOTE:
REFER TO SHEETS A4A, A5A, A6A & A7A FOR HEAD & JAMB DOOR DETAILS w/OPTIONAL EXTERIOR FINISHES

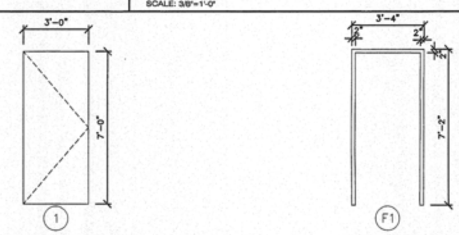
WINDOW SCHEDULE

WINDOW NO.	AMT.	TYPE	WIDTH	HEIGHT	FINISH	GLASS TYPE	U-FACTOR	SHGC
A	2	SLIDER	8'-0"	4'-0"	BRONZE	SOLAR GRAY	0.780	0.430

EXTERIOR LITE – 3/16" MINIMUM TEMPERED GLASS OR LAMINATED AS – 1 GLASS OF SOLAR GRAY GLARE REDUCING TYPE WITH A LIGHT TRANSMISSION FACTOR OF 45% MAXIMUM.



WINDOW TYPES — 6
SCALE: 3/8"=1'-0"



DOOR & DOOR FRAMES TYPES — 5
SCALE: 3/8"=1'-0"

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

PRE-CHECKED SET NAME
24' x 40' THRU 120' x 40'
RELOCATABLE BUILDING

SITE SPECIFIC PROJECT NAME
AMS 24' x 40' STOCKPILE
(50) 24' x 40" RELOCATABLE BUILDINGS

SHEET TITLE
TYPICAL INTERIOR ELEVATIONS

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
RANDAL PATRICK CAUGHEY
STATE OF CALIFORNIA

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
02 113 ...
DATE 3-25-14

ORIGINAL PC STATE AGENCY APPROVAL

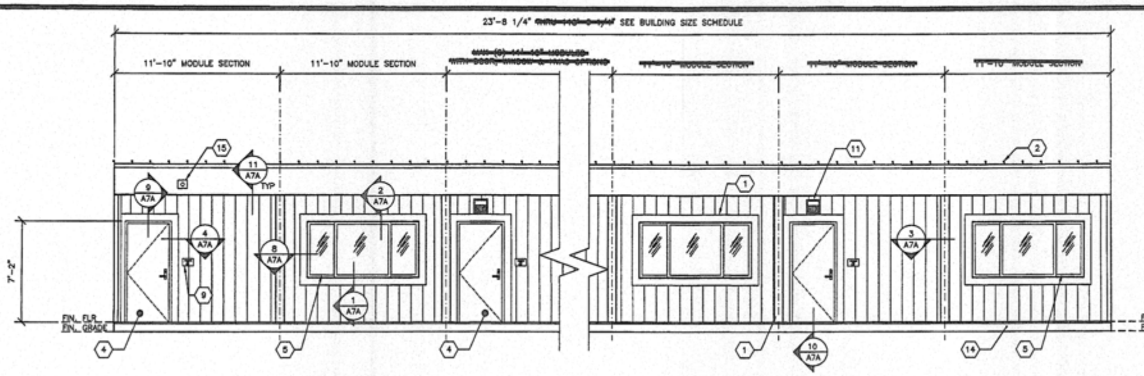
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
02 114130

PRE-CHECK (PC) DOCUMENT – CODE 2010 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

REVISIONS

DRAWN BY:
SCALE AS NOTED
DATE

SHEET NUMBER
A3



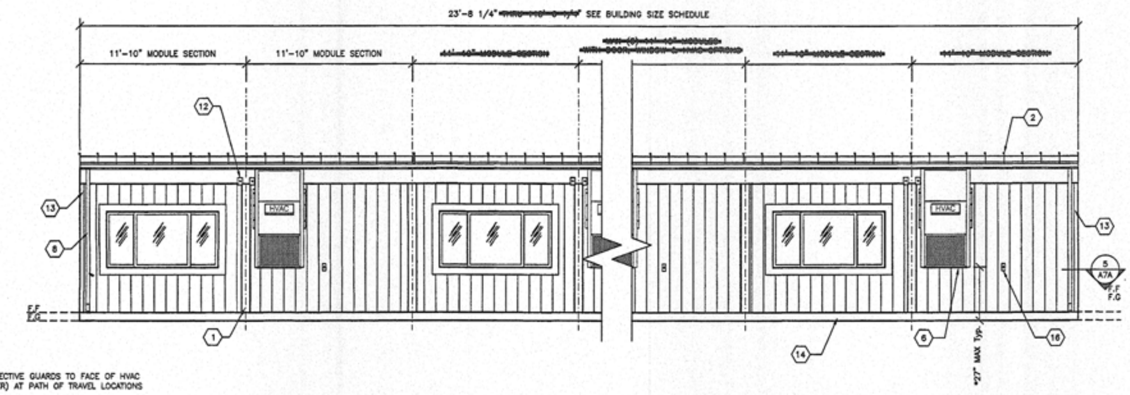
FRONT EXTERIOR ELEVATION
SCALE: 1/4"=1'-0"

A

SHEET NOTES

1. 1x4 TRIM
2. STANDING SEAM METAL ROOFING
3. OVERHANG
4. TYPICAL EXTERIOR DOOR
5. WINDOW SEE SPEC'S
6. HVAC UNIT TYP.
7. 5/8" PLYWOOD SHEATHING 303
8. DOWNSPOUT (QUANTITY & LOCATION MAY VARY)
9. ROOM ID AND ISA SIGNAGE (BY OWNER) TYP REFER TO DETAILS 5/AD AND 9/AD
10. GUTTER
11. EXTERIOR LIGHT FIXTURE TYP
12. MODULAR IDENTIFICATION TAG, +90" ABOVE F.F.
13. 22 GA. CORNER FLASHING
14. SHEET METAL FLASHING PAINTED BODY COLOR
15. FIRE ALARM HORN (REFER TO E1)
16. WP/G.F.C.I @ HVAC UNITS SEE ELECTRICAL SHEETS (TYPICAL).
17. ~~DUAL SLOPE OPTION~~

R. FOR RAMP DETAILS REFER TO SHEET S6R



* NOTE: IF EXCEEDS 27" PROTECTIVE GUARDS TO FACE OF HVAC SHALL BE INSTALLED (BY OWNER) AT PATH OF TRAVEL LOCATIONS

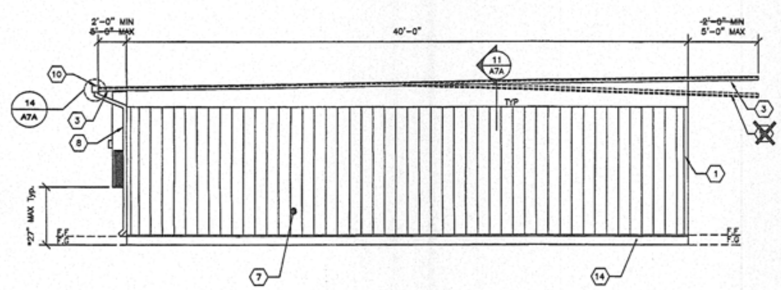
REAR EXTERIOR ELEVATION
SCALE: 1/4"=1'-0"

B

PROJECT SPEC. BUILDING SIZE	BUILDING	40'-0" MODULES	OVERALL SIZE
☒	24' x 40'	2	23'-8 1/4"
☐	36' x 40'	3	35'-6 1/2"
☐	48' x 40'	4	47'-4 3/4"
☐	60' x 40'	5	59'-3"
☐	72' x 40'	6	71'-1 1/4"
☐	84' x 40'	7	82'-11 1/2"
☐	96' x 40'	8	94'-9 3/4"
☐	108' x 40'	9	106'-8"
☐	120' x 40'	10	118'-6 1/4"

DIMENSIONS ARE FROM FACE OF COLUMN TO FACE OF COLUMN

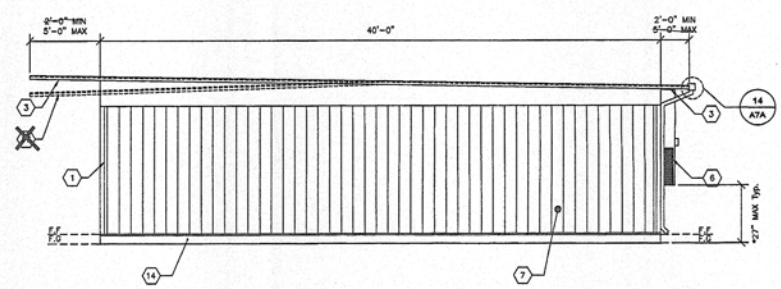
BUILDING SIZE SCHEDULE



* NOTE: IF EXCEEDS 27" PROTECTIVE GUARDS TO FACE OF HVAC SHALL BE INSTALLED (BY OWNER) AT PATH OF TRAVEL LOCATIONS

SIDE EXTERIOR ELEVATION
SCALE: 1/4"=1'-0"

C



* NOTE: IF EXCEEDS 27" PROTECTIVE GUARDS TO FACE OF HVAC SHALL BE INSTALLED (BY OWNER) AT PATH OF TRAVEL LOCATIONS

SIDE EXTERIOR ELEVATION
SCALE: 1/4"=1'-0"

D

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

PRE-CHECKED SET NAME

24' x 40' THRU 120' x 40' RELOCATABLE BUILDINGS

SITE SPECIFIC PROJECT NAME

AMS 24' x 40' STOCKPILE
(50) 24' x 40" RELOCATABLE BUILDINGS

SHEET TITLE

TYPICAL EXTERIOR ELEVATIONS DURATEMP 303 OPTION

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT No. C12631 STATE OF CALIFORNIA

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
02 114750

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
02 113961

ORIGINAL PC STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
PC 02-112210
DATE 7/17/12

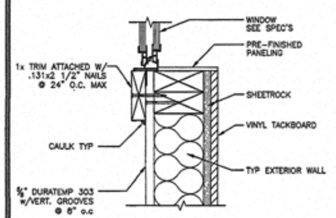
PRE-CHECK (PC) DOCUMENT – CODE: 2010 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

REVISIONS

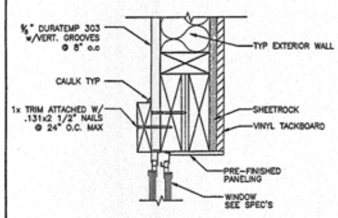
DRAWN BY:
SCALE: AS NOTED
DATE:

SHEET NUMBER

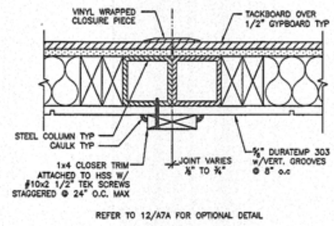
A7



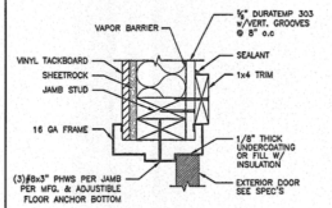
TYP WINDOW SILL DETAIL 1
SCALE:3"=1'-0"



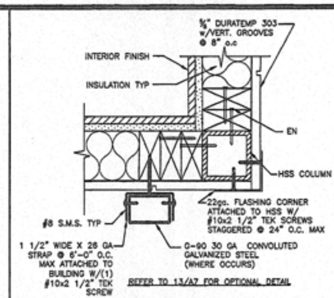
TYP WINDOW HEADER DETAIL 2
SCALE:3"=1'-0"



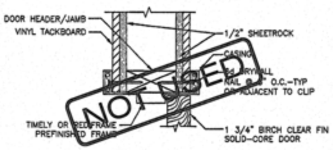
TYP MODLINE CLOSURE DETAIL 3
SCALE:3"=1'-0"



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



DS ATT & COLUMN CLOSURE DETAIL 5
SCALE:3"=1'-0"



TYP INTERIOR DOOR HEADER DETAIL 6
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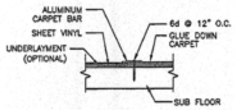
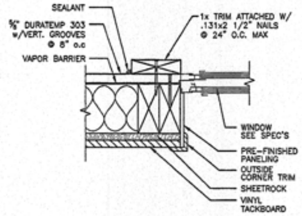
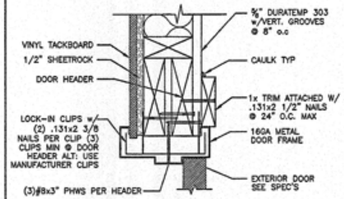


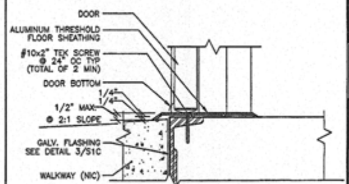
FLOORING DETAIL 7
SCALE:3"=1'-0"



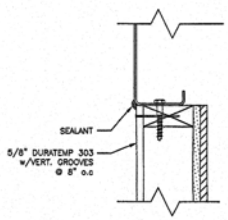
TYP WINDOW JAMB DETAIL 8
SCALE:3"=1'-0"



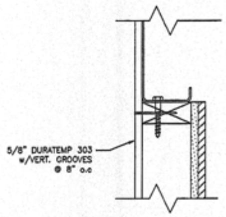
TYP DOOR HEADER DETAIL 9
SCALE:3"=1'-0"



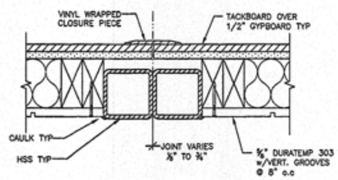
THRESHOLD DETAIL 10
SCALE:3"=1'-0"



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



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



OPTIONAL MODLINE CLOSURE DETAIL 12
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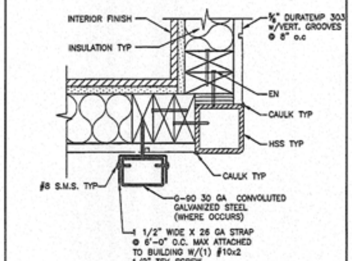
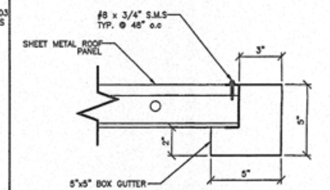
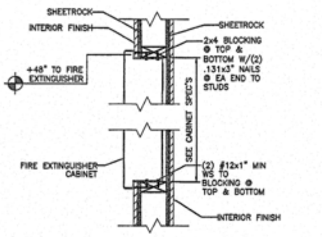


DS ATT & COLUMN CLOSURE DETAIL 13
SCALE:3"=1'-0"



TYP GUTTER ATTACHMENT DETAIL 14
SCALE:3"=1'-0"



FIRE EXTINGUISER IN CABINET DETAIL 15
SCALE:3"=1'-0"

AMS
American Modular Systems, Inc.
787 Spreckels Ave. Manteca, CA 95336
Phone (209) 825-1921 - Fax (209) 825-7016
americanmodular.com

PRE-CHECKED SET NAME

24' x 40' THRU 120' x 40' RELOCATABLE BUILDINGS

SITE SPECIFIC PROJECT NAME

AMS 24' x 40' STOCKPILE
(50) 24' x 40" RELOCATABLE BUILDINGS

SHEET TITLE

ARCHITECTURAL DURATEMP 303 SIDING DETAILS

MANUFACTURER PROFESSIONAL OF RECORD ON PC

No. C12631
STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
02 113780

PROJECT SPECIFIC STATE AGENCY APPROVAL

02 113801

ORIGINAL PC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 02-112210

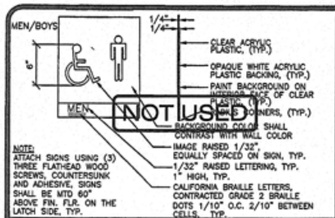
PRE-CHECK (PC) DOCUMENT - CODE: 2010 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

REVISIONS

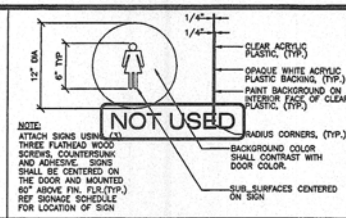
DRAWN BY:	
SCALE:	AS NOTED
DATE:	

SHEET NUMBER

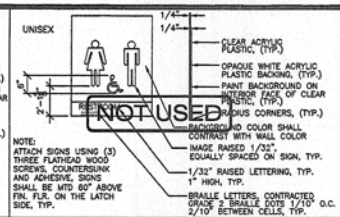
A7A



WALL MTD. RESTROOM SYMBOL | 1
SCALE: N.T.S



WOMEN'S RESTROOM SIGNAGE | 2
SCALE: N.T.S



WALL MTD. RESTROOM SYMBOL | 3
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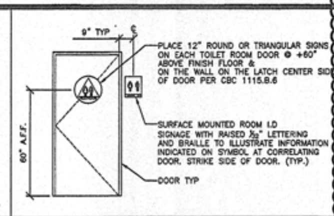
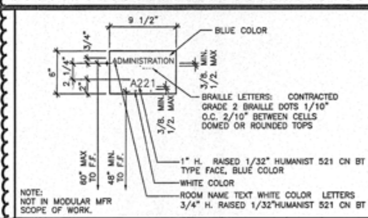
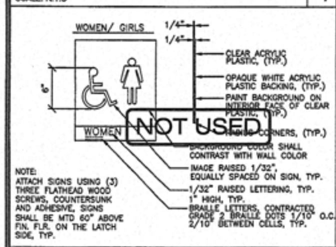


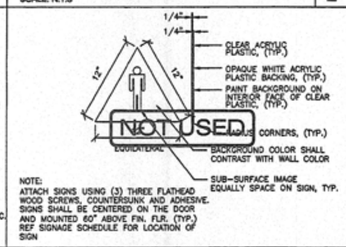
ROOM IDENTIFICATION SIGNAGE | 4
SCALE: N.T.S



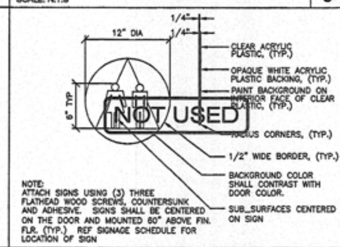
ROOM I.D. SIGNAGE | 5
SCALE: N.T.S



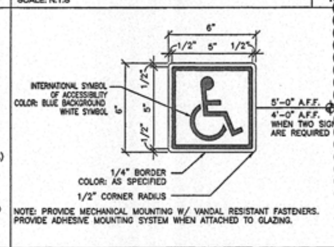
WALL MTD. RESTROOM SYMBOL | 6
SCALE: N.T.S



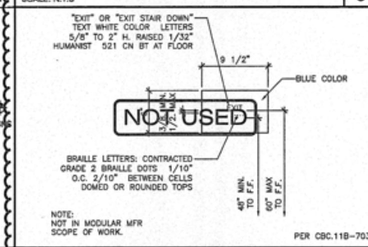
MEN'S RESTROOM SIGNAGE | 7
SCALE: N.T.S



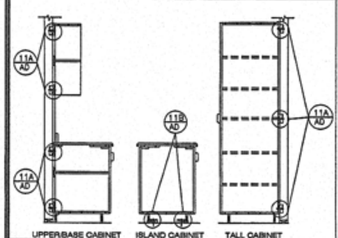
UNISEX RESTROOM SIGNAGE | 8
SCALE: N.T.S



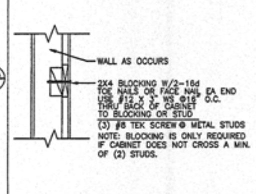
INTERNATIONAL SIGN OF ACCESS. | 9
SCALE: N.T.S



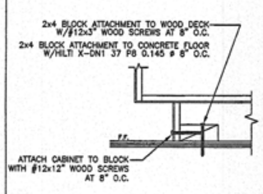
TACTILE SIGNAGE | 10
SCALE: N.T.S



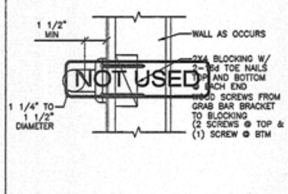
CABINET BLOCKING DETAIL | 11
SCALE: 1/2"=1'-0"



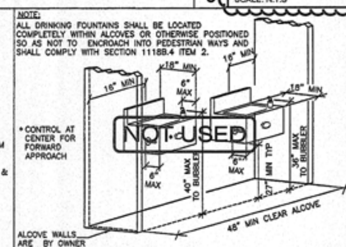
CABINET BLOCKING DETAIL | 11A
SCALE: 1/2"=1'-0"



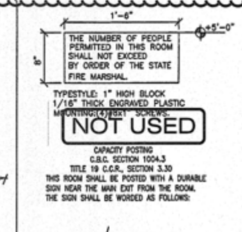
CABINET BLOCKING DETAIL | 11B
SCALE: 1/2"=1'-0"



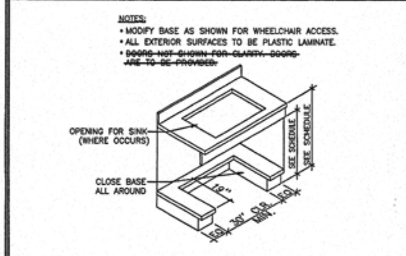
GRAB BAR BLOCKING DETAIL | 12
SCALE: 1/2"=1'-0"



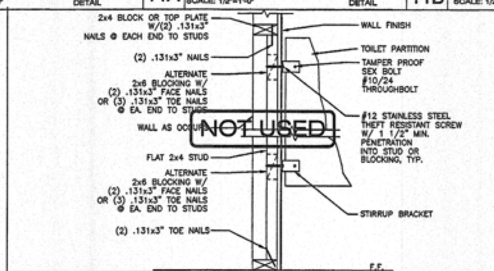
DRINKING FOUNTAIN | 13
SCALE: N.T.S
REQUIRED CLEARANCE



OCCUPANT LOAD SIGN | 14
SCALE: N.T.S



ACCESSIBLE CABINET ELEVATION | 15
SCALE: N.T.S



TOILET PARTITION ANCHORAGE BLOCKING | 16
SCALE: 1"=1'-0"

DIMENSIONS FOR ACCESSIBILITY IN TOILET FACILITIES

	FIXTURE TYPE	ADULT (AGE 12 AND OVER) DIMENSION	ELEMENTARY DIMENSION	KINDERGARTEN & PRE-SCHOOL DIMENSION	REMARKS
A	TOILET CENTERLINE FROM WALL	17"- 18"	15"	12"	FLUSH VALVE TO WIDE SIDE OF STALL TYP
B	TOILET SEAT HEIGHT (TO TOP OF SEAT)	17"-19"	15"	10"-12"	
C	GRAB BAR HEIGHT	33"	27"	20-22" ABOVE SEAT *	36" GRAB BAR @ REAR OF TOILET (250 LB CAPACITY TYP) (ALLOWED @ 36" A.F.F @ TANK TYPE TOILET) 42" GRAB BAR @ SIDE OF TOILET
D	TOILET PAPER DEPENSER IN FRONT OF TOILET (TPD)	7-9"	6" MAX.	6" MAX. **	12" IN FRONT OF TOILET ROLL PAPER HOLDER WITHOUT STOPS
E	NAPKIN DISPOSAL IN FRONT OF TOILET (SND)	[illegible]	[illegible]	[illegible]	24" IN FRONT OF TOILET (BY OWNER)
F	DISPENSER OR MIRROR HEIGHT	40" MAX.	36" MAX.	32" MAX.	
G	LAVATORY/SINK TOP HEIGHT	[illegible] MAX.	[illegible]	24" MAX.	TRAP DRAIN WATER IF HOT WATER OCCURS
H	LAVATORY/SINK KNEE CLEARANCE	[illegible] MIN.	[illegible]	19" MIN.	
I	URINAL LIP HEIGHT	17" MAX.	15" MAX.	13" MAX.	
J	URINAL FLUSH HANDLE HEIGHT	[illegible]	[illegible]	[illegible]	
K	DRINKING FOUNTAIN BUBBLER HEIGHT	36" MAX.	32" MAX.	30" MAX.	
L	DRINKING FOUNTAIN KNEE CLEARANCE	27" MIN.	24" MIN.	22" MIN.	
M	RAMP/STAIR HANDRAIL HEIGHT	34"-38"	27"	22"	

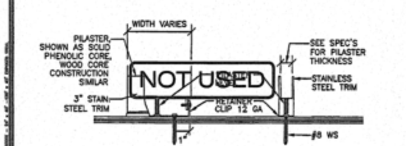
NOT USED

*= ABOVE SEAT
**= DEVIATES FROM CODE REQUIREMENTS AND REQUIRES A WRITTEN FINDING OF UNREASONABLE HARDSHIP

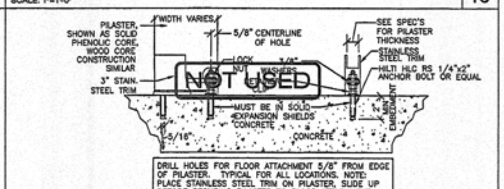
NOTE: 1. ALL ITEMS ON THIS SCHEDULE DO NOT NECESSARILY OCCUR IN THE PROJECT
2. HEIGHTS NOTED ON INTERIOR ELEVATIONS SHALL GOVERN OVER THOSE SHOWN HERE.

SCD = SEAT COVER DISPENSER
PTD = PAPER TOWEL DISPENSER
SD = SOAP DISPENSER
TPD = TOILET PAPER DISPENSER
SND = SANITARY NAPKIN DISPOSAL (WHERE APPLICABLE)
(ALL TOILET ACCESSORIES ARE N.I.C)

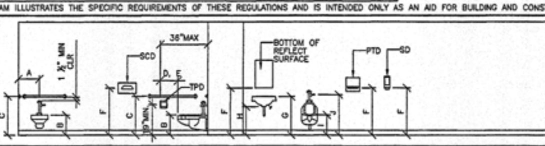
THIS DIAGRAM ILLUSTRATES THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND IS INTENDED ONLY AS AN AID FOR BUILDING AND CONSTRUCTION



TOILET PARTITION FLOOR ATTACHMENT | 17
SCALE: N.T.S
WOOD FLOOR OPTION



TOILET PARTITION FLOOR ATTACHMENT | 17A
SCALE: 1"=1'-0"



ACCESSIBLE HEIGHTS | 18
SCALE: N.T.S

American Modular Systems, Inc.
767 Spreckels Ave. Manteca, CA 95336
Phone (209) 825-1921 - Fax (209) 825-7018
americanmodular.com

PRE-CHECKED SET NAME

24' x 40' THRU 120' x 40'
RELOCATABLE BUILDINGS

SITE SPECIFIC PROJECT NAME

SHEET TITLE

ACCESSIBLE DETAILS

MANUFACTURER PROFESSIONAL OF RECORD ON PC

No. C12631
STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV OF THE STATE ARCHITECT
02 114730
AC MT FLS SS
DATE 3-9-16

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
02 113661
AC FLS SS
DATE 11/25/14

ORIGINAL PC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 02-112210
AC FLS SS
DATE 2/17/12

PRE-CHECK (PC) DOCUMENT - CODE: 2010 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

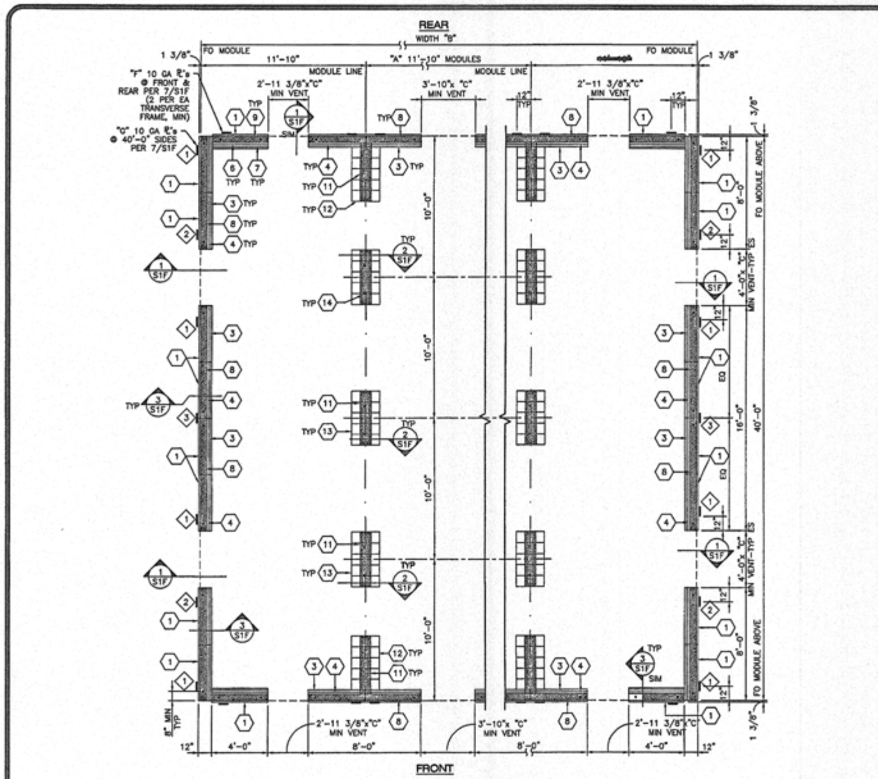
REVISIONS

1	
2	
3	
4	

DRAWN BY:
SCALE: AS NOTED
DATE:

SHEET NUMBER

AD



FOUNDATION PLAN-PLYWOOD FLOOR (50 P.S.F LIVE LOAD+15 P.S.F PARTITION LIVE LOAD) 12

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

(1) 1/2"x12" WIDEx48" LONG PT STRUCTURAL PLYWOOD (CDX PLYWOOD)

(2) NOT USED

(3) SINGLE 2x10x8'-0" LONG ℄ (PT ℄ WHERE PLYWOOD DOES NOT OCCUR)

(4) SINGLE 2x8x8'-0" LONG ℄

(5) NOT USED

(6) SINGLE 2x8x4'-0" LONG ℄

(7) SINGLE 2x10x4'-0" LONG ℄ (PT ℄ WHERE PLYWOOD DOES NOT OCCUR)

(8) MULTIPLE 2x6x8'-0" LONG NAILER AS REQ'D FOR HEIGHT

(9) MULTIPLE 2x6x4'-0" LONG NAILER AS REQ'D FOR HEIGHT

(10) NOT USED

(11) 2x10 BLKG, SEE 2/S1F

(12) (5) 2x12x2'-6" PT ℄ OR (6) 2x10x2'-6" PT ℄ OR (7) 2x8x2'-6" PT ℄, SEE 2/S1F

(13) (4) 2x12x2'-6" PT ℄ OR (5) 2x10x2'-6" PT ℄ OR (7) 2x8x2'-6" PT ℄, SEE2/S1F

• 1"ø GALVANIZED PIPE LOCATIONS-TYPICAL

(14) LOCATION OF FLOOR BEAM ATTACHMENT TO ISOLATED PAD REFER TO DETAIL 2/S1F

LEGEND 11

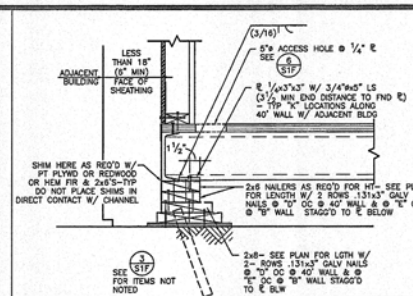
1. TOP OF WOOD PADS TO BE LEVEL.
2. DO NOT INSTALL BUILDINGS IN AREAS OF WATER LINES.
3. SITE TO BE GRADED TO PREVENT WATER PONDING BENEATH THE STRUCTURE.
4. FOUNDATION PLYWOOD TO BE CUT PERPENDICULAR TO THE FACE GRAIN.
5. PER THE CONTRACT OF THIS PROJECT- THE BUILDING PAD MUST BE A MINIMUM OF 38'-0" FRONT TO REAR, BUILDING WIDTH PLUS 6'-0" SIDE TO SIDE AND SHALL NOT EXCEED 6" OUT OF LEVEL IN ANY DIRECTION.
6. STUCCO WALLS ARE NOT ALLOWED ON WOOD FOUNDATIONS.
7. PROJECT ARCHITECT SHOULD VERIFY THE NET AREA OF THE VENT COVER BE EQUAL OT OR LARGER THAN THE VENT AREA REQUIRED SHOWN ON THE TABLE.

FOUNDATIONS:
ALL FOUNDATION MATERIALS IN CONTACT WITH THE GROUND SHALL BE PRESSURE TREATED OR REDWOOD EXCEPT SHIMS MAY BE REDWOOD, HEM FIR OR CEDAR. PRESSURE TREATED DOUGLAS FIR, HEM FIR, PLYWOOD ETC. SHALL BE VERIFIED BY A CERTIFICATE OF TREATMENT STATING: "THE MATERIAL IN THIS UNIT WAS TREATED PER 2010 CALIFORNIA BUILDING CODE. ALL MATERIAL FOR USE IN GROUND CONTACT SHALL BE STAMPED "FOR GROUND CONTACT" (U1 & T1). ALL MATERIAL NOT USED IN GROUND CONTACT SHALL BE HF#2 OR DF#2 "FOR ABOVE GROUND USE." THE IN-PLANT INSPECTOR SHALL VERIFY THAT ALL PRESSURE TREATED FOUNDATION MATERIAL IS CUT FROM AWPA STAMPED STOCK AND THAT ALL CUTS AND HOLES ARE RETREATED PER SPECIFICATIONS. U1 AND T1 MATERIAL SHALL BE BANDED SEPARATELY FOR SHIPMENT TO THE JOB SITE. THE IN-PLANT INSPECTOR'S VERIFICATION OF EACH BANDED UNIT SHALL BE ATTACHED TO THE MATERIAL. CONCRETE OR CONCRETE BLOCK FOUNDATIONS ARE NOT ALLOWED. THE FOOTING DESIGN SHALL PROVIDE FOR SHIMS AND BLOCKS NECESSARY TO PERMIT INSTALLATION ON SITES NOT LEVEL, BUT WITHIN TOLERANCE ALLOWED. INSTALLATION SHALL BE PERMITTED ON EITHER SOIL, CONCRETE OR A/C PAVING, HAVING SUITABLE DESIGN BEARING CAPACITY, THE BUILDINGS SHALL BE SECURELY FASTENED TO THE FOUNDATIONS. THE FOUNDATIONS AND THE METHOD OF FASTENING SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT AND DSA. PADS SHALL BE DESIGNED FOR A MAXIMUM OF 1000 PSF LOAD ON THE SOIL. PADS SHALL NOT BE PLACED ON TURF.

SHEET NOTES 10

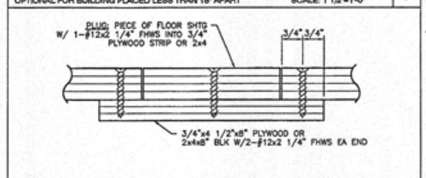
BLDG SIZE (FT)	TOTAL # OF 12' WIDE MODULES	"A" TOTAL # OF CENTER MODULES	"B" TOTAL FOUNDATION WIDTH	TOTAL FLOOR AREA (FT^2)	NET VENT AREA REQ'D (FT^2)	"C" MINIMUM HT OF VENTS (IN)	VENT AREA PROVIDED (FT^2)	"D" GALV NAIL OC SPACING (IN) (40' WALLS) SEE 3/S1F	"E" GALV NAIL OC SPACING (IN) ("B" WALLS) SEE 3/S1F	"F" # OF 10 GA SHEAR ℄'s @ FRONT & REAR SEE 3/S1F	"G" # OF 10 GA SHEAR ℄'s @ SIDES (40' WALLS) SEE 3/S1F: # OF ℄'s	"G": ℄ LOCATIONS	"H" EDGE NAIL (EN) SPACING (IN) (40' WALLS) SEE 3/S1F	"J" EDGE NAIL (EN) SPACING (IN) ("B" WALLS) SEE 3/S1F	"K" # OF ALT SHEAR ℄'s @ SIDES (40' WALLS) SEE 5/S1F
24x40	2	0	23'-8"	960	6.4	3	6.9	14	6	4/SIDE	4/SIDE	1	6	4	4/SIDE
~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~1 2~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~
~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~1 2~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~

MODULE SCHEDULE - 48' x 40' MAX 9



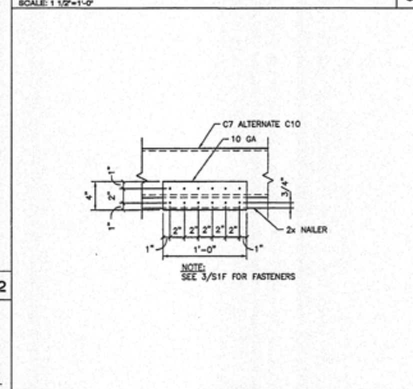
FOUNDATION DETAIL 5

OPTIONAL FOR BUILDING PLACED LESS THAN 18" APART SCALE: 1 1/2"=1'-0"



FILLER ACCESS HOLE DETAIL 6

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



SHEAR PLATE DETAIL 7

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

ON SOIL: 1"ø STANDARD WEIGHT (1.315 ACTUAL O.D.) HOT DIPPED GALV PIPE W/ 12" MIN. PENETRATION MEASURED VERTICALLY BELOW SOIL SURFACE @ 10'-0" OC, MIN 2 EA 2x ℄. DRILL SILL 1 3/8"ø MAX. PIPE MAY BE DRIVEN MAX 45° ANGLE TO VERTICAL.

ON A/C PAVING: 1"ø STANDARD WEIGHT (1.315 ACTUAL O.C.) HOT DIPPED GALV PIPE W/ 12" MIN. PENETRATION MEASURED VERTICALLY BELOW PAVING SURFACE @ 10'-0" OC, MIN 2 EA 2x ℄. DRILL SILL 1 3/8"ø MAX. ALT: 60d HOT DIPPED GALV NAILS THRU PREDRILLED SILL ℄ @ 12" OC.

ON CONC PAVING: 1"ø STANDARD WEIGHT (1.315 ACTUAL O.D.) HOT DIPPED GALV PIPE W/ 12" MIN PENETRATION MEASURED VERTICALLY BELOW PAVING SURFACE @ 10'-0" OC, MIN 2 EA 2x ℄. DRILL SILL 1 3/8"ø MAX. ALT: 1/2"ø HILTI KB-TZ's OR SIMPSON STRONG-BOLTS THRU SILL ℄ W/ 3 1/2" MIN CONC EMBEDMENT PER SCHEDULE BELOW (PROVIDE A MINIMUM OF 2 BOLTS AT 2x PLATE LESS THAN 5'-0" AND 4 BOLTS AT 2x PLATE LARGER THAN 5'-0") OR 0.145 HILTI X-CR OR SIMPSON PDPWLSS STAINLESS STEEL POWER ACTUATED FASTENERS W/1-1/2" MIN. CONC. EMBEDMENT SPACED PER SCHEDULE BELOW

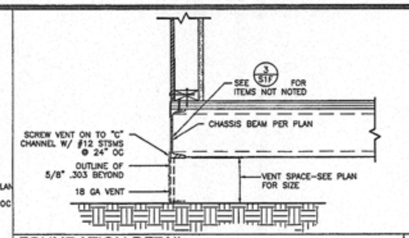
KB-TZ OR SIMPSON BOLT SPACING SCHEDULE

BUILDING SIZE	LONGITUDINAL SPACING	TRANSVERSE SPACING
24x40	74" O.C.	35" O.C.
~~[illegible]~~	~~[illegible]~~	~~[illegible]~~
~~[illegible]~~	~~[illegible]~~	~~[illegible]~~

0.145 HILTI X-CR OR SIMPSON PDPWLSS POWER ACTUATED FASTENERS

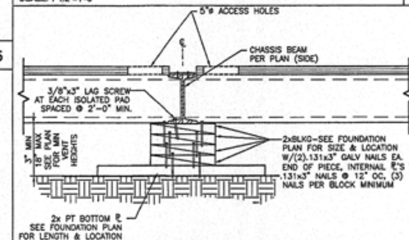
BUILDING SIZE	LONGITUDINAL SPACING	TRANSVERSE SPACING
24x40	13" O.C.	6" O.C.
~~[illegible]~~	~~[illegible]~~	~~[illegible]~~
~~[illegible]~~	~~[illegible]~~	~~[illegible]~~

SILL RESTRAINT 8



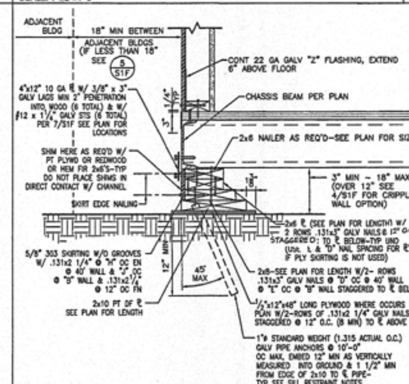
FOUNDATION DETAIL 1

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



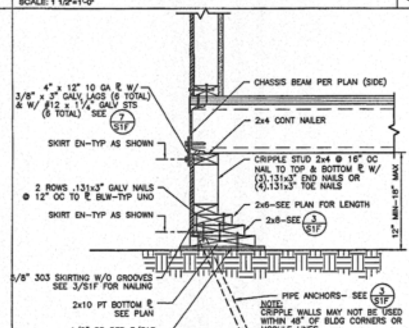
FOUNDATION DETAIL 2

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



FOUNDATION DETAIL 3

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



FOUNDATION DETAIL 4

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

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

PRE-CHECKED SET NAME
24' x 40' THRU 120' x 40' RELOCATABLE BUILDINGS

SITE SPECIFIC PROJECT NAME
AMS 24' x 40' STOCKPILE
(50) 24' x 40" RELOCATABLE BUILDINGS

SHEET TITLE
WOOD FOUNDATION PLAN NOTES AND DETAILS 50 P.S.F L.L+15 P.S.F PART. LOAD FLOOR-PLYWOOD FLR

MANUFACTURER PROFESSIONAL OF RECORD ON PC

IDENTIFICATION STAMP DIV OF THE STATE ARCHITECT
02 114730
AC MT FLS — SS
DATE 3-9-16

Robert J Gomez No. S5522 EXP. 06-30-13 Structural Engineer REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA

PROJECT SPECIFIC STATE AGENCY APPROVAL

~~IDENTIFICATION STAMP DIV OF THE STATE ARCHITECT~~
~~02 113001~~
~~AC FLS SS~~
~~DATE 11/25/14~~

ORIGINAL PC STATE AGENCY APPROVAL

~~IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES~~
~~PC 02-112210~~
~~AC FLS SS~~
~~DATE 2/17/12~~

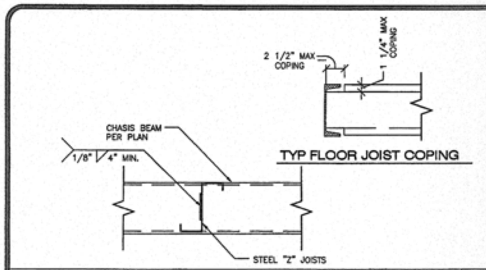
PRE-CHECK (PC) DOCUMENT - CODE: 2010 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

REVISIONS

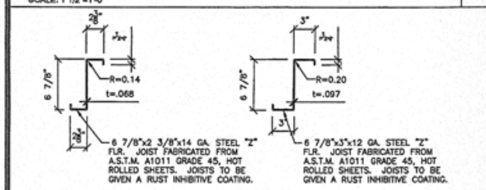
1	
2	
3	
4	

DRAWN BY:
SCALE: AS NOTED
DATE:

SHEET NUMBER
S1F



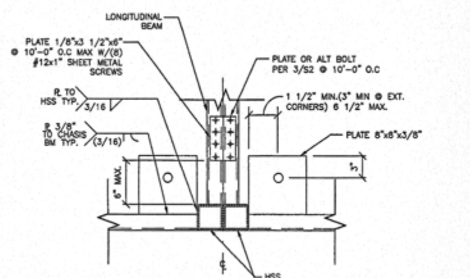
TYP. JOIST ATTACTMENT TO BEAM
SCALE: 1 1/2"=1'-0"
1



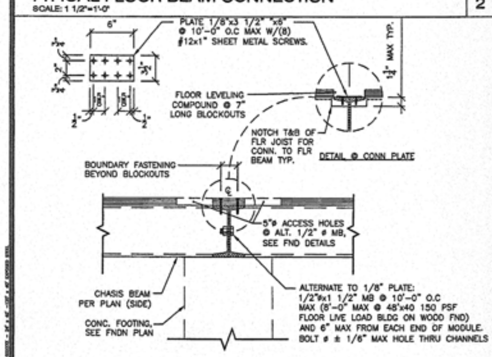
14 GA. JOIST
Z SECTION PROPERTIES
A=0.89 IN.^{2}
Sx=1.85 IN.^{3}
Ix=6.37 IN.^{4}

12 GA. JOIST
Z SECTION PROPERTIES
A=1.38 IN.^{2}
Sx=2.97 IN.^{3}
Ix=10.20 IN.^{4}

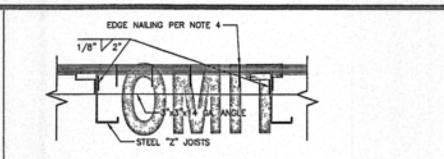
TYPICAL JOIST
SCALE: 1 1/2"=1'-0"
TYP. Z-PURLINS
1A



TYPICAL FLOOR BEAM CONNECTION
SCALE: 1 1/2"=1'-0"
2



TYPICAL BEAM TO BEAM CONNECTION
SCALE: 1 1/2"=1'-0"
3



TYP. ANGLE TO Z-PURLIN ATTACHMENT
SCALE: 1 1/2"=1'-0"
4

1. C 7x9.8 FLOOR BEAM ALTERNATE C10x15.3
2. HSS COLUMN PER SHHET S4
3. FLOOR JOIST
4. 1 1/8" T&G PLYWOOD FLOOR SHT'G STURDI-I-FLOOR 48" O.C SPAN RATING EXP. 1 CONFORMING TO PS 1-95 OPTION: UNI-FLOOR BY PITTSBURGH TESTING LAB CONFORMING TO PS 1-95. STAGGER SHEETS 48" O.C AS SHOWN W/ FACE GRAIN NORMAL TO FLOOR JOISTS. FASTEN PER SCHEDULES
5. PLATE 1/8"x 3 1/2"x6" @ 10'-0" O.C MAX W/(8)#12x1" SHEET METAL SCREWS 8'-0" MAX FOR 150 PSF
   ALTERNATE:
   1/2"ø x1 1/2" MB @ 10'-0" O.C MAX AND 6" MAX FROM EACH END OF MODULE. BOLT ø ± 1/6" MAX HOLE THRU CHANNELS SEE DETAIL 3/S2
6. 3"x3"x14 GA. ANGLE @ UNSUPPORTED PLYWOOD EDGES @ THE TWO END MODULES OF BUILDINGS SPECIFIED IN THE FASTENING SCHEDULES ON WOOD FOUNDATION ONLY PER DETAIL 4/S2

KEY NOTES
5

FASTENER SPACING SCHEDULE @ 50 P.S.F FLOOR LOAD

BUILDING SIZE	BOUNDARY #12x2 1/4" WOOD TEK SCREW	EDGE ET&F 0.144øx2" POWER DRIVEN PINS	**FIELD ET&F 0.144øx2" POWER DRIVEN PINS
24'x40'	6" O.C.	6" O.C.	12" O.C
36'x40'	6" O.C.	6" O.C.	12" O.C
48'x40'	6" O.C.	6" O.C.	12" O.C

**6" O.C. WHEN FLOOR JOISTS ARE SPACED AT 48" O.C.

FASTENER SPACING SCHEDULE @ 50 + 15 P.S.F FLOOR LOAD

NOT USED

BUILDING SIZE	BOUNDARY #12x2 1/4" WOOD TEK SCREW	EDGE ET&F 0.144øx2" POWER DRIVEN PINS	**FIELD ET&F 0.144øx2" POWER DRIVEN PINS
24'x40'	6" O.C.	6" O.C.	12" O.C
36'x40'	6" O.C.	6" O.C.	12" O.C
*48'x40'	6" O.C.	6" O.C.	12" O.C

*BLOCK UNSUPPORTED PLYWOOD EDGES @ THE TWO END MODULES PER DETAIL 4/S2
**6" O.C. WHEN FLOOR JOISTS ARE SPACED AT 48" O.C.

FASTENER SPACING SCHEDULE @ 100 P.S.F FLOOR LOAD

NOT USED

BUILDING SIZE	BOUNDARY #12x2 1/4" WOOD TEK SCREW	EDGE ET&F 0.144øx2" POWER DRIVEN PINS	ET&F 0.144øx2" POWER DRIVEN PINS
24'x40'	6" O.C.	6" O.C.	12" O.C
36'x40'	6" O.C.	6" O.C.	12" O.C
*48'x40'	6" O.C.	6" O.C.	12" O.C

*BLOCK UNSUPPORTED PLYWOOD EDGES @ THE TWO END MODULES PER DETAIL 4/S2

FASTENER SPACING SCHEDULE @ 150 P.S.F FLOOR LOAD

NOT USED

BUILDING SIZE	BOUNDARY #12x2 1/4" WOOD TEK SCREW	EDGE ET&F 0.144øx2" POWER DRIVEN PINS	FIELD ET&F 0.144øx2" POWER DRIVEN PINS
*24'x40'	6" O.C.	6" O.C.	12" O.C
*36'x40'	4" O.C @ 2 END MODULES 6" O.C @ INTERIOR MODULES	4" O.C @ 2 END MODULES 6" O.C @ INTERIOR MODULES	12" O.C
*48'x40'	2.5" O.C. @ 2 END MODULES 6" O.C @ INTERIOR MODULES	2.5" O.C. @ 2 END MODULES 6" O.C @ INTERIOR MODULES	12" O.C

*BLOCK UNSUPPORTED PLYWOOD EDGES @ ALL MODULES PER DETAIL 4/S2

FASTENER SPACING SCHEDULE @ FLOORS ON WOOD FOUNDATIONS
6

NOT USED

BOUNDARY #12x2 1/4" WOOD TEK SCREW	EDGE ET&F 0.144øx2" POWER DRIVEN PINS OR #12x2 1/4 WOOD TEK SCREW	**FIELD ET&F 0.144øx2" POWER DRIVEN PINS OR #12x2 1/4 WOOD TEK SCREW
6" O.C.	6" O.C.	12" O.C

**6" O.C. WHEN FLOOR JOISTS ARE SPACED AT 48" O.C.

FASTENER SPACING SCHEDULE @ FLOORS ON CONCRETE FOUNDATIONS
7

BUILDING SIZE	BOUNDARY #12x2 1/4" WOOD TEK SCREW	EDGE #12x2 1/4" WOOD TEK SCREW	**FIELD #12x2 1/4" WOOD TEK SCREW
24'x40'	6" O.C.	6" O.C.	12" O.C
~~*36'x40'~~	~~6" O.C.~~	~~6" O.C.~~	~~12" O.C~~
~~*48'x40'~~	~~6" O.C.~~	~~6" O.C.~~	~~12" O.C~~

*BLOCK UNSUPPORTED PLYWOOD EDGES @ THE TWO END MODULES PER DETAIL 4/S2 @ 150 P.S.F. FLOOR LOAD ON WOOD FOUNDATIONS ONLY
**6" O.C. WHEN FLOOR JOISTS ARE SPACED AT 48" O.C.

ALTERNATE FASTENER SPACING SCHEDULE @ FLOORS ON WOOD FOUNDATIONS
8

1. THE LONGITUDINAL FLOOR CHANNEL CONNECTIONS ARE NOMINAL AND ARE NOT REQUIRED STRUCTURALLY AT BUILDINGS ON CONCRETE FOUNDATIONS.
2. THE MATERIAL THICKNESS OF STRUCTURAL MEMBER, IN THEIR END-USE, SHALL MEET OR EXCEED THE MINIMUM BASE METAL THICKNESS SPECIFIED IN THE TABLE OR IN THE PLAN. THE MATERIAL GAGE DESIGNATION IN THE PLAN SHALL BE USED AS REFERENCE ONLY.
3. ET & F PINS PER ICC ESR-4144, TEK SCREWS PER ICC ESR-1976.

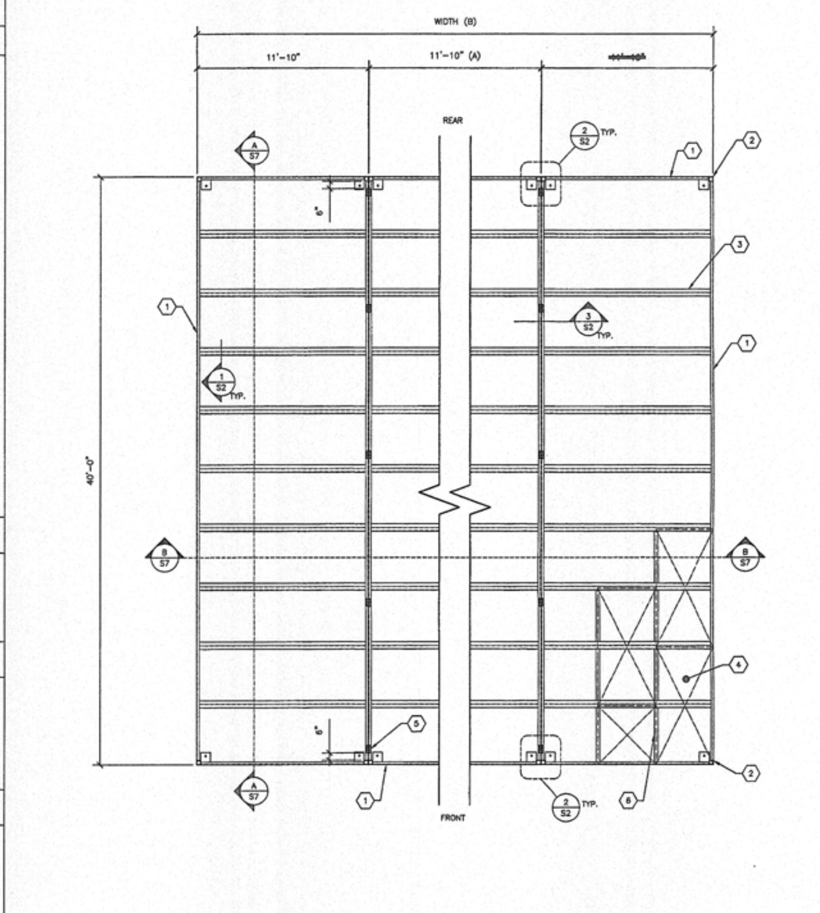
GENERAL NOTES
9

	LIVE LOAD PSF	SPACING 14 GA. JOIST	SPACING 12 GA. JOIST
☒	50 PSF	48" O.C	48" O.C
☐	50+15 PSF	24" O.C	48" O.C
☐	100 PSF	24" O.C	24" O.C
☐	150 PSF	———	24" O.C

FLOOR JOIST SCHEDULE
10

BLDG SIZE (FT)	TOTAL # OF 12' WIDE MODULES	"A" TOTAL # OF CENTER MODULES	"B" TOTAL BLDG WIDTH
☒ 24' x 40'	2	0	23'-8 1/4"
☐ 36' x 40'	3	1	35'-6 1/2"
☐ 48' x 40'	4	2	47'-4 3/4"
☐ 60' x 40'	5	3	59'-3"
☐ 72' x 40'	6	4	71'-1 1/4"
☐ 84' x 40'	7	5	82'-11 1/2"
☐ 96' x 40'	8	6	94'-9 3/4"
☐ 108' x 40'	9	7	106'-8"
☐ 120' x 40'	10	8	118'-6 1/4"

MODULE SCHEDULE
11



TYPICAL FLOOR FRAMING LAYOUT - PLYWOOD FLOOR
SCALE: 1/4"=1'-0"
A

AMS

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

PRE-CHECKED SET NAME
24' x 40' THRU 120' x 40' RELOCATABLE BUILDINGS

SITE SPECIFIC PROJECT NAME
AMS 24' x 40' STOCKPILE
(50) 24' x 40" RELOCATABLE BUILDINGS

SHEET TITLE
FLOOR FRAMING PLANS (PLYWOOD)

MANUFACTURER PROFESSIONAL OF RECORD ON PC

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
02 114730
AC FLS SS
DATE 3-9-16

REGISTERED PROFESSIONAL ENGINEER
Robert J Gomes
No. 55022
EXP. 06-30-13
Structural Engineer
STATE OF CALIFORNIA

PROJECT SPECIFIC STATE AGENCY APPROVAL

02 114731
AC FLS SS
DATE 7/23/14

ORIGINAL PC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 02-112210
AC FLS SS
DATE 2/16/12

PRE-CHECK (PC) DOCUMENT - CODE: 2010 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

REVISIONS

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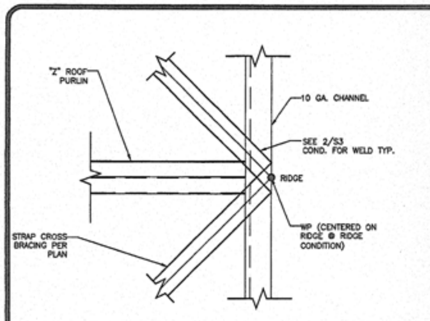
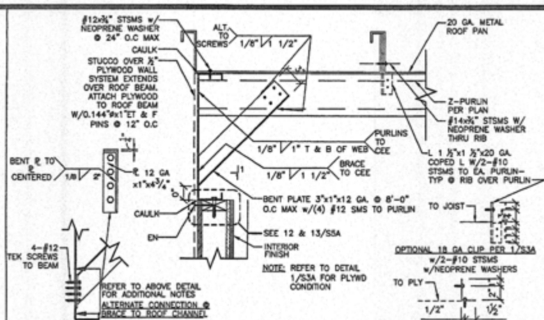
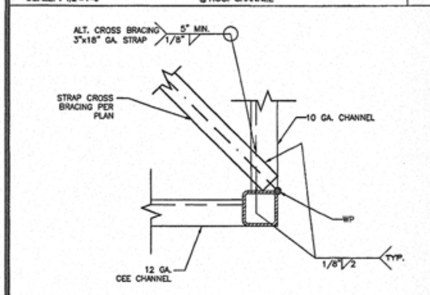
SHEET NUMBER
S2



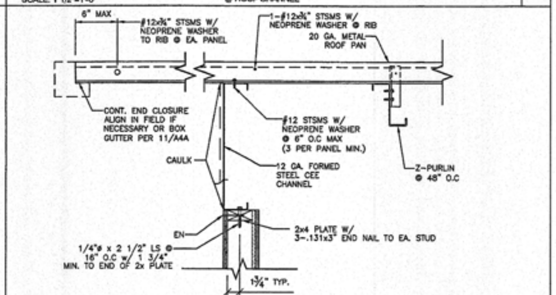
TYP. CROSS BRACING DETAILS 1
SCALE: 1 1/2"=1'-0" @ ROOF CHANNEL



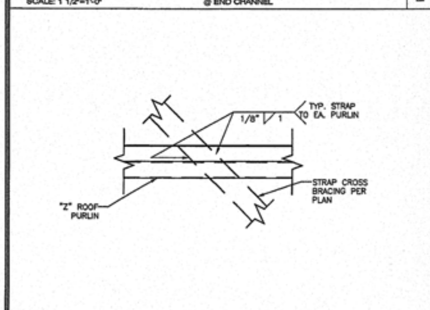
SIDE WALL TO ROOF BEAM DETAIL 4
SCALE: 1 1/2"=1'-0" @ ROOF CHANNEL



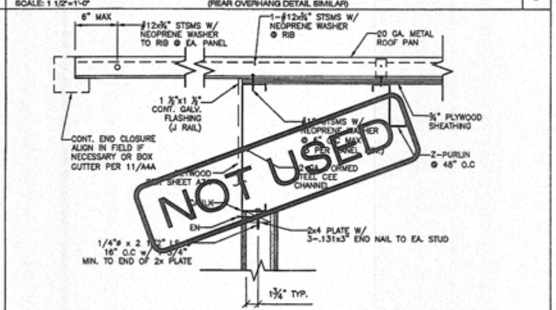
TYP. CROSS BRACING DETAILS 2
SCALE: 1 1/2"=1'-0" @ END CHANNEL



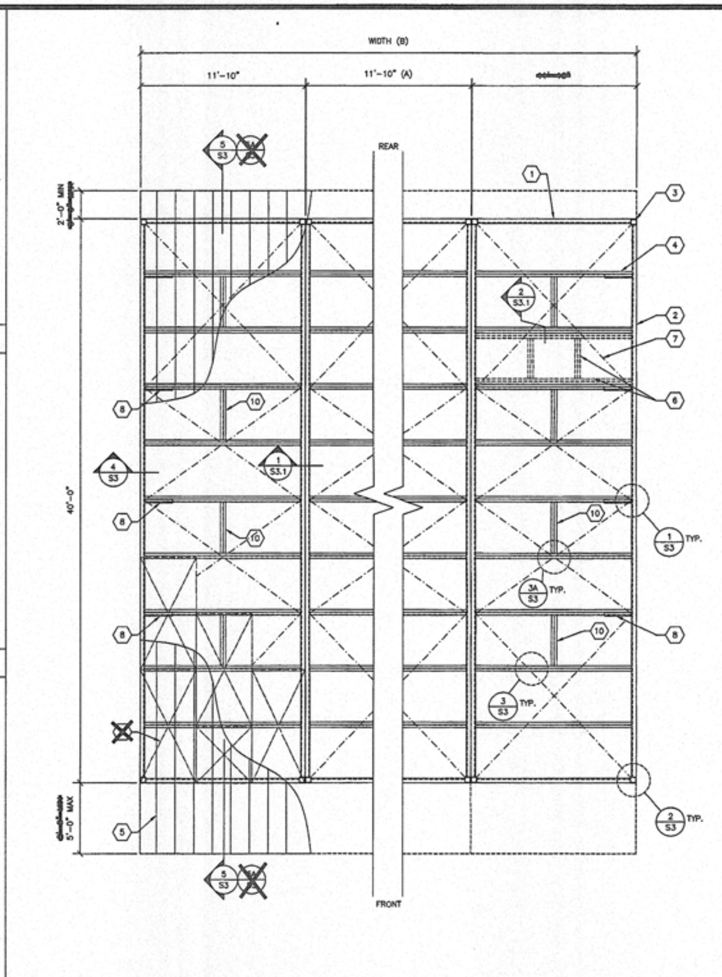
5'-0" OVERHANG DETAIL 5
SCALE: 1 1/2"=1'-0" (REAR OVERHANG DETAIL SIMILAR)



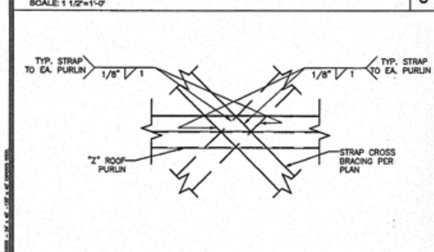
TYP. CROSS BRACING DETAILS 3
SCALE: 1 1/2"=1'-0"



5'-0" OVERHANG DETAIL w/ 3/4" PLYWOOD 5A
SCALE: 1 1/2"=1'-0" (REAR OVERHANG DETAIL SIMILAR)



TYPICAL ROOF FRAMING LAYOUT A
SCALE: 1/4"=1'-0" (MONO/DUAL SLOPE-OPEN SOFFIT)



TYP. CROSS BRACING DETAILS 3A
SCALE: 1 1/2"=1'-0" @ ROOF PURLIN

MODULE SCHEDULE

BLDG SIZE (FT)	TOTAL # OF 12' WIDE MODULES	"A" TOTAL # OF CENTER MODULES	"B" TOTAL BLDG WIDTH
☒ 24' x 40'	2	0	23'-8 1/4"
☐ 36' x 40'	3	1	35'-6 1/2"
☐ 48' x 40'	4	2	47'-4 3/4"
☐ 60' x 40'	5	3	59'-3"
☐ 72' x 40'	6	4	71'-1 1/4"
☐ 84' x 40'	7	5	82'-11 1/2"
☐ 96' x 40'	8	6	94'-9 3/4"
☐ 108' x 40'	9	7	106'-8"
☐ 120' x 40'	10	8	118'-6 1/4"

FASTENING SPACING SCHEDULE

NAILING	0.144 PINS SPACING		# 10 SMS SPACING	
	TYPICAL	WITHIN 4' OF BUILDING CORNERS	TYPICAL	WITHIN 4' OF BUILDING CORNERS
BOUNDARY	6" O.C.	6" O.C.	6" O.C.	6" O.C.
EDGE	6" O.C.	6" O.C.	6" O.C.	6" O.C.
FIELD	12" O.C	6" O.C	12" O.C	12" O.C

ET & F 0.144 PINS PER ICC ESR #4144

GENERAL NOTES

1. THE MATERIAL THICKNESS OF STRUCTURAL MEMBER, IN THEIR END-USE, SHALL MEET OR EXCEED THE MINIMUM BASE METAL THICKNESS SPECIFIED IN THE TABLE OR IN THE PLAN. THE MATERIAL GAGE DESIGNATION IN THE PLAN SHALL BE USED AS REFERENCE ONLY.
2. SEE SHEET S5 FOR TYP. SIDE WALL FRAMING.
3. SEE SHEET S5 FOR TYP. END WALL FRAMING.
4. ALL FASTENERS THRU METAL ROOF PANEL SHALL BE INSTALLED w/NEOPRENE WASHERS.

KEY NOTES

1. 12 GA. TRANSVERSE BEAM PER 6/S3.1
2. 10 GA. LONGITUDINAL ROOF CHANNEL TYP.
3. HSS PER SHEET S4
4. 'Z' FORMED ROOF PURLINS PER 4/S3.1 @ 48" O.C. MAX
5. 20 GA. ROOF PAN ALTERNATE 26 GA. ROOF PAN W/ROOF PLYWOOD & ENCLOSED SOFFIT OVERHANG OPTIONS ONLY.SEE SHEET S3A FOR DETAILS
6. PROVIDE DOUBLE 6" PURLINS W/6" PURLIN BLKG PER 2/S3.1 @ OPTIONAL 600# HVAC.
7. 2"x16 GA. STRAP CROSS BRACING GRADE 50 ALT. CROSS BRACING 3"x18 GA. GRADE 50
8. 3x1x12 GA. BENT PLATE BRACE @ EA. STRAP TO 10 GA. BM CONN. & @ 12'-0" OC MAX REFER TO PLAN FOR LOCATIONS AND 4/S3 FOR DETAILS
9. ~~ALTERNATE TO CROSS BRACING: 3/4" APA RATED L-P OSB SHEATHING OR 3/4" PLYWOOD (ALL SHEATHING SHALL BE EITHER T&G OR EDGE CLIP) COMPLY WITH DSA PA-062, CD EXPOSURE-1 48/24 SPAN INDEX, FACE GRAIN NORMAL TO ROOF JOISTS ROOF SHTHG MAY BE REPLACED BY STRAP CROSS BRACING (REFER TO SHEET S3 FOR DETAILS) ALL BOUNDARY EDGE & FIELD ATTACHMENTS SHALL BE 1" MIN. FROM EDGE OF PLYWOOD & EDGE OF STEEL SUPPORTING MEMBER. REFER TO FASTENING SCHEDULE.~~
10. PURLIN BLOCKING WELD TO ROOF PURLINS PER DETAIL 2/S3.1. BLOCKING IS ONLY REQUIRED AT THE OUTSIDE MODULES @ PURLINS WITH DIAGONAL BRACING PER 8 ABOVE.

AMS
American Modular Systems, Inc.
787 Spreckels Ave. Manteca, CA 95336
Phone (209) 825-1921 - Fax (209) 825-7016
americanmodular.com

PRE-CHECKED SET NAME
24' x 40' THRU 120' x 40' RELOCATABLE BUILDINGS

SITE SPECIFIC PROJECT NAME
AMS 24' x 40' STOCKPILE
(50) 24' x 40" RELOCATABLE BUILDINGS

SHEET TITLE
ROOF FRAMING PLANS (OPEN SOFFIT)

MANUFACTURER PROFESSIONAL OF RECORD ON PC

IDENTIFICATION STAMP DIV OF THE STATE ARCHITECT
02 114730
AC FLS SS
DATE 3-9-16

REGISTERED PROFESSIONAL ENGINEER
Robert J Gomes
No. S5322
EXP. 06-30-13
Structural Engineer
STATE OF CALIFORNIA

PROJECT SPECIFIC STATE AGENCY APPROVAL
~~IDENTIFICATION STAMP DIV OF THE STATE ARCHITECT~~
~~02 113861~~
~~AC FLS SS~~
~~DATE 1/23/14~~

ORIGINAL PC STATE AGENCY APPROVAL
~~IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES~~
~~PC 02-112210~~
~~AC FLS SS~~
~~DATE 2/17/12~~

PRE-CHECK (PC) DOCUMENT - CODE: 2010 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

REVISIONS
1
2
3
4

DRAWN BY:	
SCALE:	AS NOTED
DATE:	

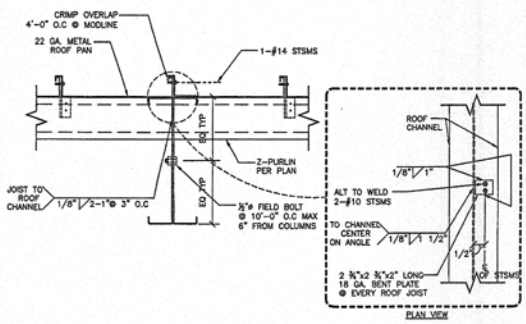
SHEET NUMBER
S3

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

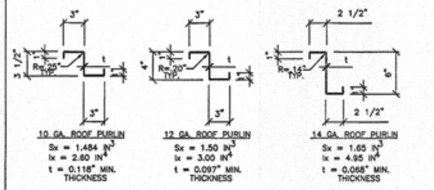
PRE-CHECKED SET NAME
24' x 40' THRU 120' x 40' RELOCATABLE BUILDINGS

SITE SPECIFIC PROJECT NAME
AMS 24' x 40' STOCKPILE
(50) 24' x 40" RELOCATABLE BUILDINGS

SHEET TITLE
ROOF FRAMING DETAILS



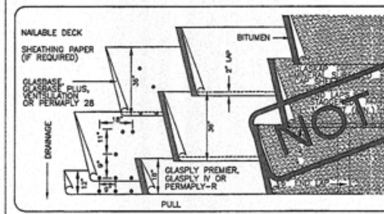
ROOF BEAM CONNECTION DETAIL — 1
SCALE: 1 1/2"=1'-0"



10 GA. ROOF PURLIN	12 GA. ROOF PURLIN	14 GA. ROOF PURLIN
Sx = 1.484 IN^3	Sx = 1.50 IN^3	Sx = 1.65 IN^3
Ix = 2.60 IN^4	Ix = 3.00 IN^4	Ix = 4.95 IN^4
t = 0.118" MIN. THICKNESS	t = 0.097" MIN. THICKNESS	t = 0.068" MIN. THICKNESS

JOIST FABRICATED FROM ASTM A1011 GRADE 36. HOT ROLLED SHEETS, JOISTS TO BE GIVEN A RUST INHIBITIVE COATING.

Z PURLINS DETAILS AND PROPERTIES — 4
SCALE: 1 1/2"=1'-0"

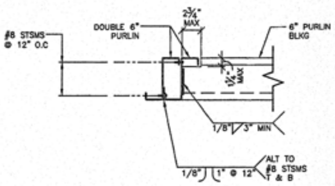


MATERIALS PER 100 SQ. FT. OF ROOF AREA
SHEATHING PAPER
WOOD BOARD DECKS ONLY ....1 LAYER
[illegible]
GLASBASE, GLASBASE PLUS, PERMAPLY 28 OR VENTSULATION FELT...1 PLY
GLASPLY PREMIER, PERMAPLY-R OR GLASPLY IV.......................1 PLY
GLASKAP MINERAL SURFACED CAP SHEET.................................1 PLY
BITUMEN (ASPHALT):

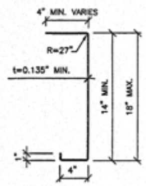
INCLINE PER FOOT	ASPHALT	NOMINAL WEIGHT
UP TO 1"	170°F, TYPE II, FLAT	46 LBS.
1" TO 3"	190°F, TYPE III, STEEP	46 LBS.
3" TO 6"	220°F, TYPE IV, SPECIAL STEEP	46 LBS.
0 TO 6"	PERMAMOP	46 LBS.

APPROXIMATE INSTALLED WEIGHT: 141-215 LBS.
ROOFING CLASS: A

THREE PLY MINERAL BUILT-UP ROOF — 7
SCALE: 1 1/2"=1'-0"

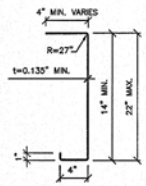


BLOCKING DETAIL — 2
SCALE: 1 1/2"=1'-0"



	14"	18"
A	3.14 IN^2	3.71 IN^2
Sx MIN.	12.07 IN^3	17.32 IN^3
Ix MIN.	86.94 IN^4	159.80 IN^4

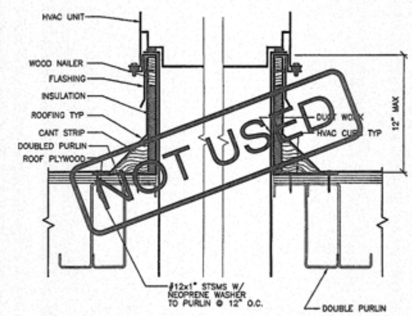
BEAM FABRICATED FROM ASTM A1011 GR50 W/RUST INHIBITIVE COATING.



	14"	22"
A	3.14 IN^2	4.28 IN^2
Sx MIN.	12.07 IN^3	23.33 IN^3
Ix MIN.	86.94 IN^4	262.35 IN^4

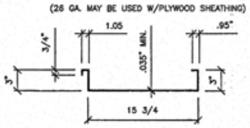
BEAM FABRICATED FROM ASTM A1011 GR50 W/RUST INHIBITIVE COATING.

LONGITUDINAL ROOF BEAM — 5
SCALE: 1 1/2"=1'-0"



HVAC CURB DETAIL ANCHORAGE — 8
SCALE: 1 1/2"=1'-0"

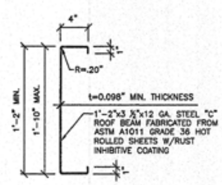
(26 GA. MAY BE USED W/PLYWOOD SHEATHING)



$S_x^+(t)$ = 0.364 IN^3 $S_x^-(t)$ = 0.330 IN^3
$S_x^+(b)$ = 1.372 IN^3 $S_x^-(b)$ = 0.305 IN^3
I_x^+ = 0.863 IN^4 I_x^- = 0.476 IN^4

PAN FABRICATED FROM ASTM A1011 GRADE 36, HOT ROLLED SHEETS. PAN TO BE GIVEN A RUST INHIBITIVE COATING.

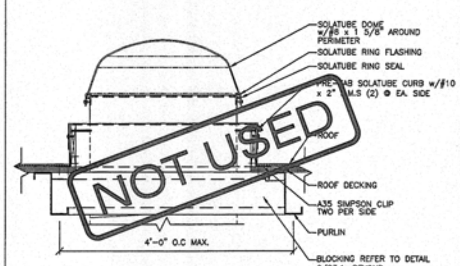
20 GA. ROOF PLAN — 3
SCALE: 1 1/2"=1'-0"



TYPICAL SECTION

C SECTION PROPERTIES
D=1'-2"
A=2.6 IN^2
Sx=9.57 IN^3
Ix=67.02 IN^4

12 GA. ROOF CHANNEL — 6
SCALE: 1 1/2"=1'-0"



SOLA TUBE DETAIL — 9
SCALE: 1 1/2"=1'-0"

GENERAL NOTES

1. THE MATERIAL THICKNESS OF STRUCTURAL MEMBER, IN THEIR END-USE, SHALL MEET OR EXCEED THE MINIMUM BASE METAL THICKNESS SPECIFIED IN THE TABLE OR IN THE PLAN. THE MATERIAL GAGE DESIGNATION IN THE PLAN SHALL BE USED AS REFERENCE ONLY.

MANUFACTURER PROFESSIONAL OF RECORD ON PC
IDENTIFICATION STAMP DIV OF THE STATE ARCHITECT
02 114730
AC___ FLS___ SS___
DATE 3-9-16

REGISTERED PROFESSIONAL ENGINEER
Robert J Gomes
No. 85322
EXP. 06-30-15
Structural Engineer
STATE OF CALIFORNIA

PROJECT SPECIFIC STATE AGENCY APPROVAL
IDENTIFICATION STAMP DIV OF THE STATE ARCHITECT
02 118601
AC___ FLS___ SS___
DATE 11/20/14

ORIGINAL PC STATE AGENCY APPROVAL
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 02-112210
AC___ FLS___ SS___
DATE 5/17/12

PRE-CHECK (PC) DOCUMENT - CODE: 2010 CBC
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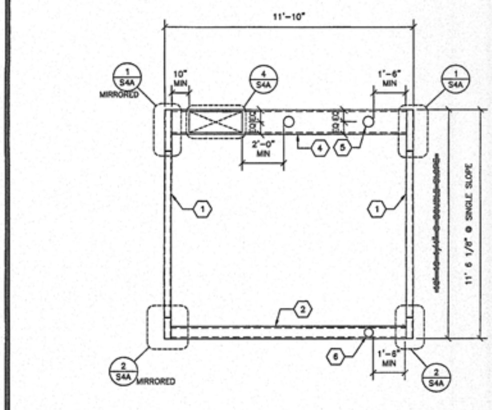
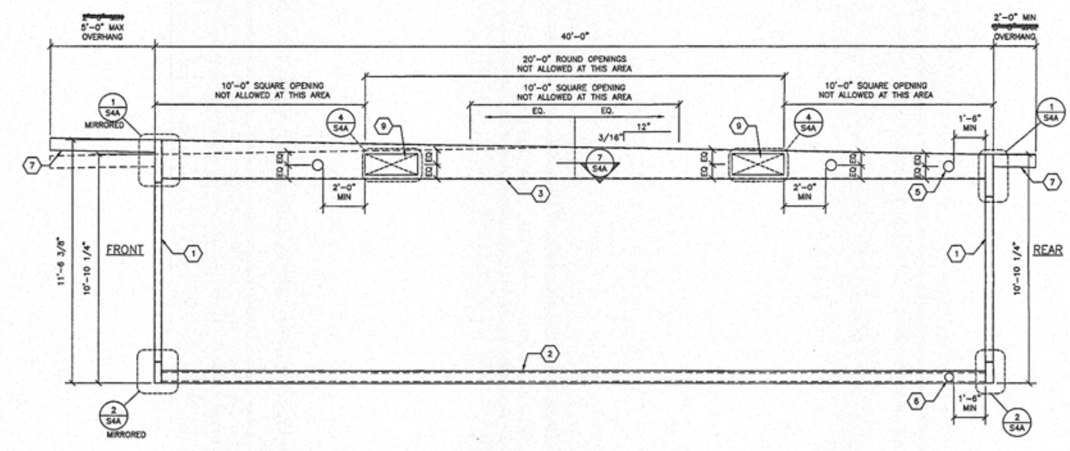
SCALE: AS NOTED
DATE:

SHEET NUMBER
S3.1



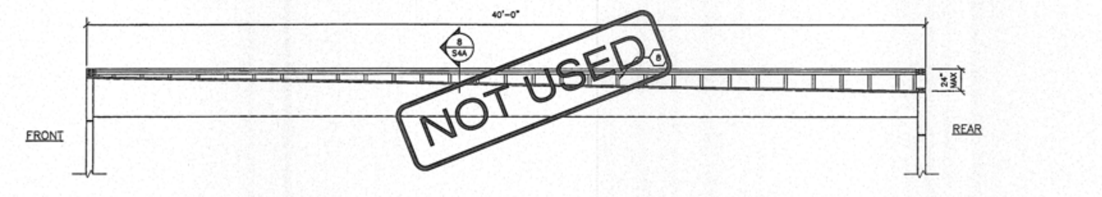
TYPICAL TRANSVERSE FRAME 2

3/8"=1'-0"



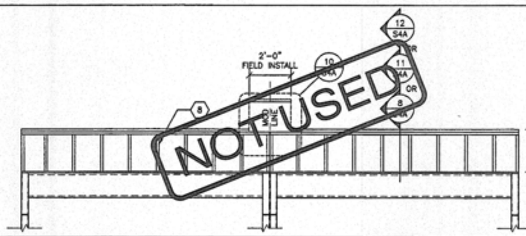
TYPICAL LONGITUDINAL FRAME 1

3/8"=1'-0"



PARAPET WALL OPTION @ LONGITUDINAL FRAME 3

3/8"=1'-0"



PARAPET WALL OPTION @ TRANSVERSE FRAME 4

3/8"=1'-0"

1. 4x4x5/16 HSS COLUMN
2. FLOOR BEAM PER SCHEDULE
3. 10 GA. LONGITUDINAL ROOF CHANNEL 14"-18"-14" @ DOUBLE SLOPE TYPE 14"-22" @ SINGLE SLOPE TYPE
4. 12 GA. TRANSVERSE ROOF CHANNEL 14" MIN 22" MAX
5. 6" ø MAX OPENING IN WEB OF ROOF BEAM WITHOUT WEB REINFORCEMENT MINIMUM SPACING OF HOLES @ 48" O.C. HOLES MAY OCCUR @ ANY LOCATION ALONG LENGTH OF ROOF BEAM EXCEPT AS NOTED OTHERWISE ON FRAMING ELEVATION NOTE: IF HOLE IS 3" OR LESS THEY MAY BE SPACED AT 24"O.C. MINIMUM
6. 4" ø MAX OPENING IN WEB OF FLOOR BEAM WITHOUT WEB REINFORCEMENT MINIMUM SPACING OF HOLES @ 48" O.C. HOLES MAY OCCUR @ ANY LOCATION ALONG LENGTH OF FLOOR BEAM WITH DIRECT FOUNDATION SUPPORT BELLOW. OPENINGS ARE NOT ALLOWED WHERE BEAMS ARE SPANNING BETWEEN FOUNDATIONS OR ACROSS VENT OPENINGS.

   NOTE: IF HOLE IS 2" OR LESS THEY MAY BE SPACED AT 24" MINIMUM
7. 14 GA OUTRIGGER CHANNEL AT OPTIONAL ENCLOSED OVERHANG REFER TO DETAIL 1/S4A
8. 2x6 H.F. #2 OR BETTER STUDS @ 16" O.C.
9. 12"x 30" MAX OPENING ALLOWED ONLY AT EXTERIOR BEAMS WITH A WALL DIRECTLY BELOW. IF WALL BELOW IT IS REMOVED THEN A COLUMN MUST BE ADDED AT MID SPAN. REFER TO DETAIL 4/S4A FOR OPENING REINFORCEMENT

KEY NOTES 5

IDENTIFICATION STAMP
DIV OF THE STATE ARCHITECT
02 114730
AC ___ FLS ___ SS ___
DATE 3-9-16

SUBFLOOR TYPE	FLOOR BEAM SIZE	ALTERNATES
~~[illegible]~~ PLYWOOD	C7x9.8	C9x13.4, C10x15.3
~~CONCRETE~~	~~[illegible]~~	~~[illegible]~~

FLOOR BEAM SCHEDULE 6

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

PRE-CHECKED SET NAME
24' x 40' THRU 120' x 40' RELOCATABLE BUILDINGS

SITE SPECIFIC PROJECT NAME
AMS 24' x 40' STOCKPILE
(50) 24' x 40" RELOCATABLE BUILDINGS

SHEET TITLE
MOMENT RESISTANT FRAME ELEVATIONS

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT RANDALL PATRICK GRAHAM No. C12631 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER Robert J Gomes STATE OF CALIFORNIA

PROJECT SPECIFIC STATE AGENCY APPROVAL

02 113001
DATE 11/25/14

ORIGINAL PC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 02-112210
AC ___ FLS ___ SS ___
DATE ___

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SCALE: AS NOTED
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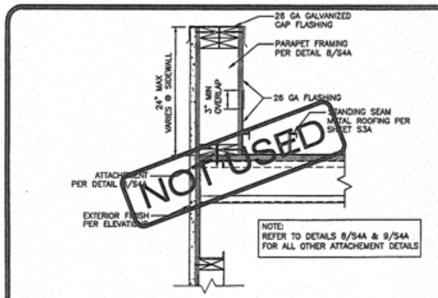
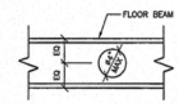
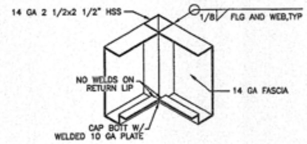
SHEET NUMBER
S4



PARAPET DETAIL @ REAR/SIDE (w/METAL ROOFING OPTION) — 9A
SCALE: 1 1/2"=1'-0"

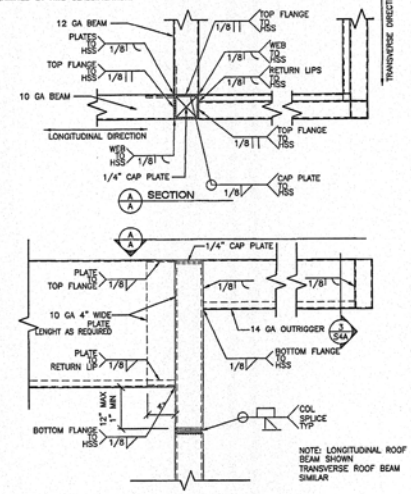


OPENING @ FLOOR BEAM — 6
SCALE: 1 1/2"=1'-0"

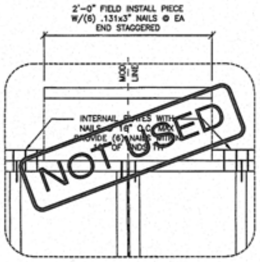


OVERHANG CORNER DETAIL — 3
SCALE: 1 1/2"=1'-0"

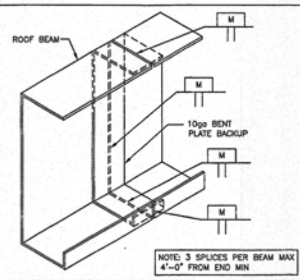
THE WELDING PROCEDURE QUALIFICATION TEST RECORD AND WELDING PRODECURE SPECIFICATION FOR THIS WELD SHALL BE PREPARED IN ACCORDANCE WITH AWS D.1-06 AND SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND SUBMITTAL TO THE D.S.A.
TYPICAL DETAILS 1/S4A, 2/S4A AND 7/S4A.
ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE-RESISTING SYSTEMS SHALL BE MADE WITH A FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT.-LBS AT ZERO DEGREES F, AS DETERMINED BY AWS CLASSIFICATION.



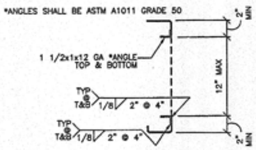
TYPICAL ROOF CHANNEL TO HSS DETAIL — 1
SCALE: 1 1/2"=1'-0"



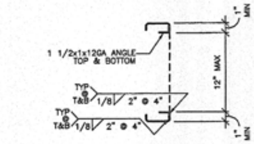
PARAPET DETAIL @ MODLINES — 10
SCALE: 1 1/2"=1'-0"



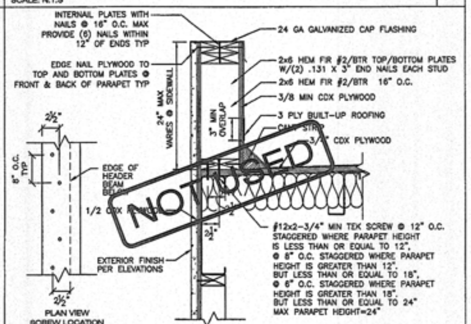
TYPICAL BEAM SLICE — 7
SCALE: N.T.S



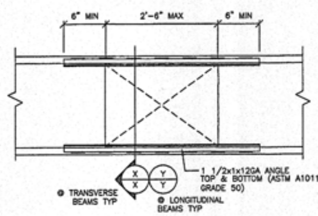
DETAIL @ LONGITUDINAL BEAMS (Y)



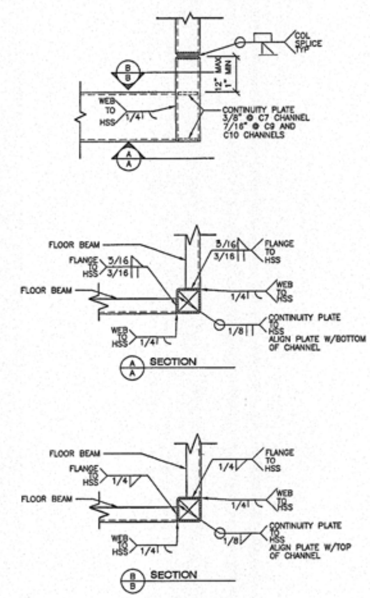
DETAIL @ TRANSVERSE BEAMS (X)



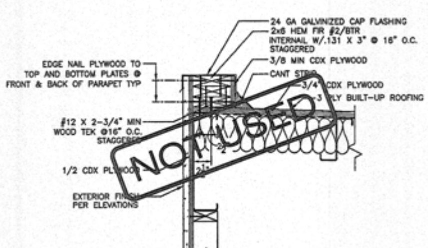
PARAPET DETAIL @ REAR & FRONT (DUAL SLOPE) SIDES SIM. — 8
SCALE: 1 1/2"=1'-0" SCALE: 1 1/2"=1'-0"



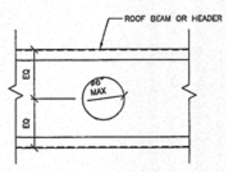
OPENING @ ROOF BEAMS — 4
SCALE: 1 1/2"=1'-0"



TYPICAL CORNER TO BEAM DETAIL — 2
SCALE: 1 1/2"=1'-0"



PARAPET DETAIL @ FRONT — 9
SCALE: 1 1/2"=1'-0"



OPENING @ ROOF BEAMS — 5
SCALE: 1 1/2"=1'-0"

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787 Spreckels Ave. Manteca, CA 95336
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PRE-CHECKED SET NAME
24' x 40' THRU 120' x 40' RELOCATABLE BUILDINGS

SITE SPECIFIC PROJECT NAME
AMS 24' x 40' STOCKPILE
(50) 24' x 40" RELOCATABLE BUILDINGS

SHEET TITLE
FRAME CONNECTION DETAILS

MANUFACTURER PROFESSIONAL OF RECORD ON PC
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
02 114730
AC FLS SS
DATE 3-9-16

PROJECT SPECIFIC STATE AGENCY APPROVAL
113601
11/25/14

ORIGINAL PC STATE AGENCY APPROVAL
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
PC 02-112210
AC FLS SS
DATE 2/17/12

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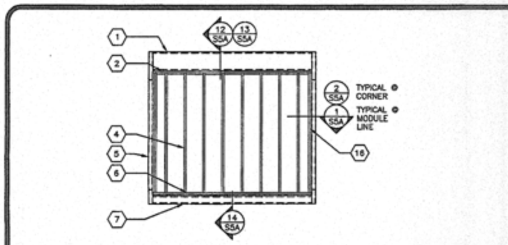
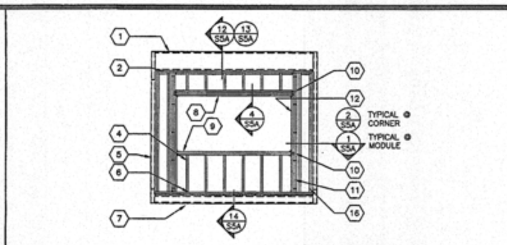
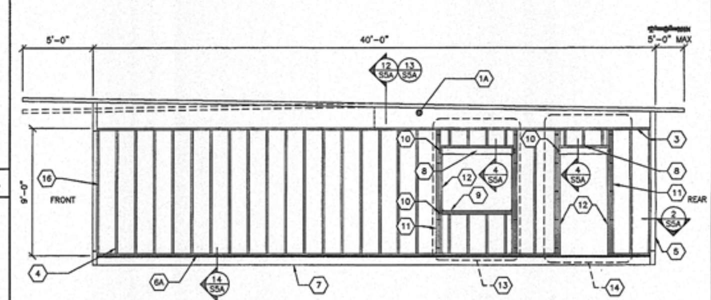
SHEET NUMBER
S4A

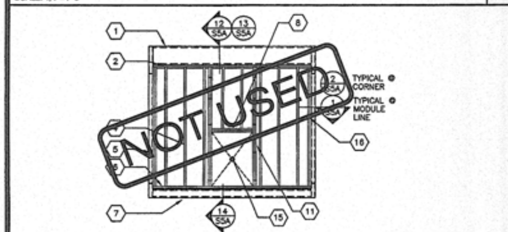


TYPICAL END WALL FRAMING w/NO OPENINGS — 1
SCALE: 1/4"=1'-0"

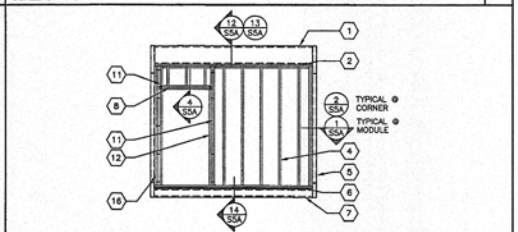


TYPICAL END WALL FRAMING WINDOW — 4
SCALE: 1/4"=1'-0"



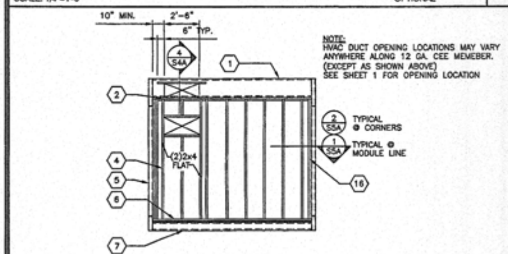


TYPICAL END WALL FRAMING w/INDOOR HVAC UNIT — 2
SCALE: 1/4"=1'-0" OPTIONAL



TYPICAL END WALL FRAMING w/DOOR — 5
SCALE: 1/4"=1'-0"

TYPICAL SIDE WALL FRAMING (MONO/~~DUAL~~ PITCH) — 6
SCALE: 1/4"=1'-0"



TYPICAL END WALL FRAMING w/WALL HUNG HVAC UNIT — 3
SCALE: 1/4"=1'-0" OPTIONAL

FINISH TYPE	FOUNDATION TYPE	WALL FINISH COMMENTS	STUD TYPE	STUD SPACING TYPICAL	STUD SPACING @ CORNERS
5/8" PLYWOOD SHEATHING 303 CONFORMING TO PS1-95. VERTICAL GROOVES @ 8" OC	WOOD ~~OR CONCRETE~~	JOINT DETAIL SEE 10/S5A NAILING PER BLDG SECTIONS	HEM FIR #2	@ 16" OC	@ 16" OC
			DOUG FIR #2	@ 16" OC	@ 16" OC
7/16" HARDIBOARD WITH SYNTHETIC STUCCO 5/16" HARDI-LAP SIDING	WOOD OR CONCRETE	PER SHEETS A5, A5A, A6 & A6A	HEM FIR #2	@ 16" OC	@ 16" OC
			DOUG FIR #2	@ 16" OC	@ 16" OC
1/2" PLYWOOD SHEATHING CONFORMING TO PS1-95, APA RATED, 5 PLY 32/16, OR 1/2" O.S.B. PANELS EXPOSURE 1 WITH 7/8" STUCCO	CONCRETE ONLY	NAILING PER BLDG SECTIONS	HEM FIR #2	@ 16" OC	@ 12" OC
			DOUG FIR #2	@ 16" OC	@ 16" OC

1. ALL NAILS IN EXTERIOR APPLICATIONS TO BE GALVANIZED.
2. WALL CORNERS ARE DEFINED AS A DISTANCE OF 8 FEET IN BOTH DIRECTIONS FROM EACH CORNER OF BUILDINGS WITH 2160 SQ. FT. OR GREATER AND A DISTANCE OF 4 FEET IN BOTH DIRECTIONS FROM EACH CORNER OF BUILDINGS WITH LESS THAN 2160 SQ. FT.
3. TYPICAL PLYWOOD NAILING WHERE OCCURS .131x2 1/4" GALV @ 6" O.C E.N. & 12" O.C. F.N. (ALL EDGES BLOCKED)

EXTERIOR WALL FINISH/WALL STUD SCHEDULE — 7

DOOR/WINDOW OPENINGS AT TYPICAL WALL (NO STUCCO)

OPENING	HEADER	WINDOW SILLS	KING STUDS[1]	KING STUDS INTERNAILING SPACING W/0.131x3" NAILS	HEADER TO KING STUDS NAILS	SILL TO KING STUDS NAILS
8'-0" UP TO 10'-0"	(3) 2x4	(2) 2x4	3	20" O.C. MAX	5	5
6'-0" UP TO 8'-0"	(3) 2x4	(2) 2x4	2	20" O.C. MAX	4	4
3'-0" UP TO 6'-0"	(3) 2x4	(2) 2x4	2	20" O.C. MAX	3	3
3'-0" OR LESS	(3) 2x4	(2) 2x4	2	20" O.C. MAX	2	2

DOOR/WINDOW OPENINGS AT BUILDING CORNERS [2](NO STUCCO)

OPENING	HEADER	WINDOW SILLS	KING STUDS[1]	KING STUDS INTERNAILING SPACING W/0.131x3" NAILS	HEADER TO KING STUDS NAILS	SILL TO KING STUDS NAILS
8'-0" UP TO 10'-0"	(3) 2x4	(2) 2x4	3	16" O.C. MAX	6	6
6'-0" UP TO 8'-0"	(3) 2x4	(2) 2x4	3	16" O.C. MAX	5	5
3'-0" UP TO 6'-0"	(3) 2x4	(2) 2x4	2	16" O.C. MAX	4	4
3'-0" OR LESS	(3) 2x4	(2) 2x4	2	16" O.C. MAX	3	3

DOOR/WINDOW OPENINGS AT STUCCO WALLS

OPENING	HEADER	WINDOW SILLS	KING STUDS[1]	KING STUDS INTERNAILING SPACING W/0.131x3" NAILS	HEADER TO KING STUDS NAILS	SILL TO KING STUDS NAILS
8'-0" UP TO 10'-0"	(4) 2x4	(4) 2x4	4	13" O.C. MAX	5	5
6'-0" UP TO 8'-0"	(3) 2x4	(2) 2x4	3	13" O.C. MAX	4	4
3'-0" UP TO 6'-0"	(3) 2x4	(2) 2x4	3	13" O.C. MAX	3	3
3'-0" OR LESS	(3) 2x4	(2) 2x4	2	13" O.C. MAX	2	3

DOOR/WINDOW OPENINGS AT WALL W/ STUCCO WITHIN BUILDING CORNERS [2]

OPENING	HEADER	WINDOW SILLS	KING STUDS[1]	KING STUDS INTERNAILING SPACING W/0.131x3" NAILS	HEADER TO KING STUDS NAILS	SILL TO KING STUDS NAILS
8'-0" UP TO 10'-0"	(4) 2x4	(4) 2x4	4	11" O.C. MAX	6	6
6'-0" UP TO 8'-0"	(3) 2x4	(3) 2x4	4	11" O.C. MAX	5	5
3'-0" UP TO 6'-0"	(3) 2x4	(2) 2x4	3	11" O.C. MAX	4	4
3'-0" OR LESS	(3) 2x4	(2) 2x4	2	11" O.C. MAX	3	3

1. PROVIDE (2) SIMPSON A34'S T&B OF KING STUDS TO PLATES FOR OPENINGS GREATER THAN 3'-0". PROVIDE (1) SIMPSON A34'S T&B OF KING STUDS TO PLATES FOR OPENINGS 3'-0" OR LESS.
2. WALL CORNERS ARE DEFINED AS A DISTANCE OF 8 FEET IN BOTH DIRECTIONS FROM EACH CORNER OF BUILDINGS WITH 2160 SQ. FT. OR GREATER AND A DISTANCE OF 4 FEET IN BOTH DIRECTIONS FROM EACH CORNER OF BUILDINGS WITH LESS THAN 2160 SQ. FT.
3. ALL WOOD SPECIES TO BE HEM FIR #2, U.O.N.

OPENING SCHEDULE — 3A

1 ROOF HEADER
1A ROOF BEAM
2 2x4 HEM FIR PLATE NO SPLICE
3 2x4 PLATE
4 2x4 STUDS SPACED PER SCHEDULE TYP.
5 HSS COLUMN
6 2x4 BOTTOM PLATE NO SPLICES
6A 2x4 BOTTOM PLATE 2x4 P.T. HEM FIR #2 AT CONCRETE FLOORS
7 PERIMETER FLOOR BEAM
8 HEADER PER SCHEDULE ALT. (3) FLAT 2x4 HEM FIR. PER DETAIL 4/S5A
9 HEM FIR #2 WINDOW SILL PLATE PER SCHEDULE
10 END NAILS THROUGH KING STUD PER SCHEDULE
11 HEM FIR #2 KING STUDS PER SCHEDULE INTERNAIL PER SCHEDULE
12 2x4 HEM FIR #2 TRIMMER
13 OPTIONAL WINDOW OPENING FRAMING PER SCHEDULE (REFER TO 4/S5 FOR DETAILS AND FLOOR PLANS FOR LOCATIONS)
14 OPTIONAL DOOR OPENING FRAMING PER SCHEDULE (REFER TO 4/S4 FOR DETAILS AND FLOOR PLANS FOR LOCATIONS)
15 ~~[illegible]~~
16 2x NAILER

KEY NOTES — 8

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

PRE-CHECKED SET NAME
24' x 40' THRU 120' x 40' RELOCATABLE BUILDINGS

SITE SPECIFIC PROJECT NAME
AMS 24' x 40' STOCKPILE
(50) 24' x 40" RELOCATABLE BUILDINGS

SHEET TITLE
WALL FRAMING ELEVATIONS

MANUFACTURER PROFESSIONAL OF RECORD ON PC

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
02 114730
AC ___ FLS ___ SS ___
DATE 7-1-16

Robert J Gomes No. 55322 EXP. 06-30-13 Structural Engineer
REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA

PROJECT SPECIFIC STATE AGENCY APPROVAL
11/25/14

ORIGINAL PC STATE AGENCY APPROVAL
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
PC 02-112210
AC ___ FLS ___ SS ___
DATE 7/17/12

PRE-CHECK (PC) DOCUMENT - CODE: 2010 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

REVISIONS
1
2
3
4

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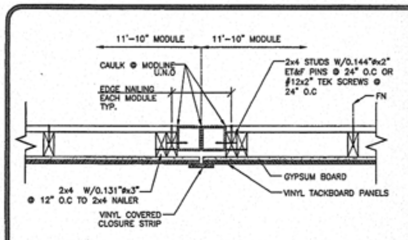
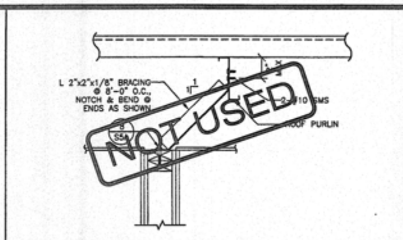
DATE:

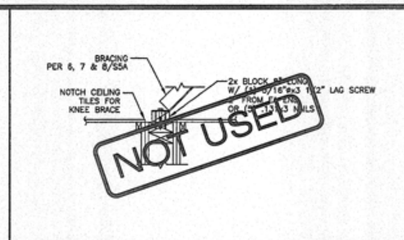
SHEET NUMBER
S5



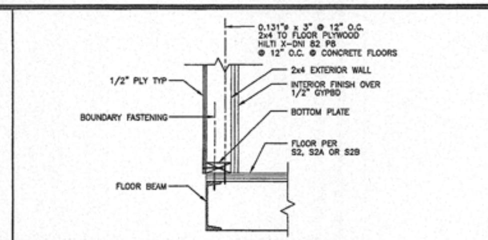
WALL TO COLUMN TYP. DETAIL @ MODLINES — 1
SCALE: 1 1/2"=1'-0" FOR COLUMN LOCATION REFER TO ARCH. DETAILS



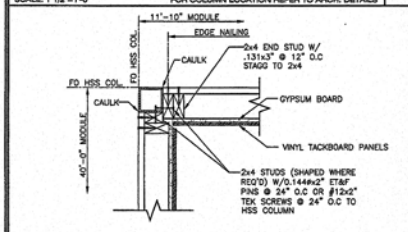
TYP. INTERIOR WALL BRACING — 6
SCALE: 1 1/2"=1'-0" BRACE PERPENDICULAR TO PURLINS



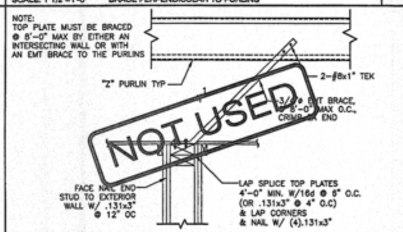
ALT. BLOCKING @ INT. WALL BRACING — 9A
SCALE: 1 1/2"=1'-0"



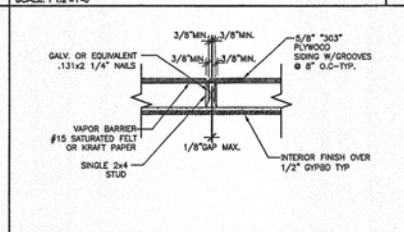
EXTERIOR WALL TO FLOOR TYP. DETAIL — 14
SCALE: 1 1/2"=1'-0"



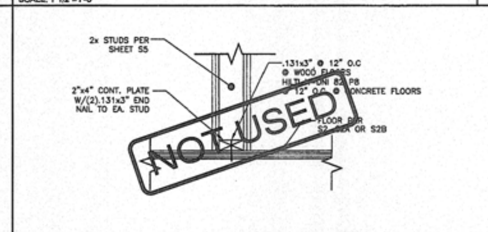
WALL TO COLUMN TYP. DETAIL @ CORNER — 2
SCALE: 1 1/2"=1'-0" FOR COLUMN LOCATION REFER TO ARCH. DETAILS



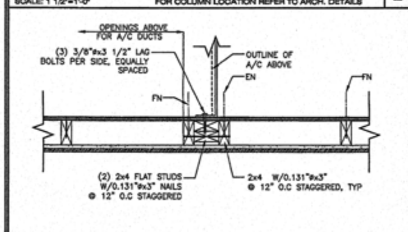
ALT. INTERIOR WALL BRACING w/EMT BRACE — 7
SCALE: 1 1/2"=1'-0" BRACE PARALLEL TO PURLINS



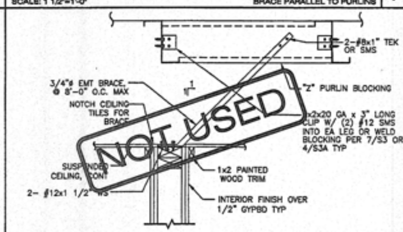
TYPICAL SIDING JOINT — 10
SCALE: 1 1/2"=1'-0"



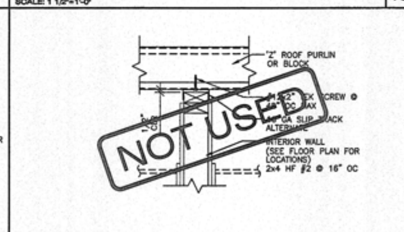
TYP. INT. NON-BEARING WALL BASE ATTACHMENT — 15
SCALE: 1 1/2"=1'-0" WALL PARALLEL TO FLOOR JOISTS



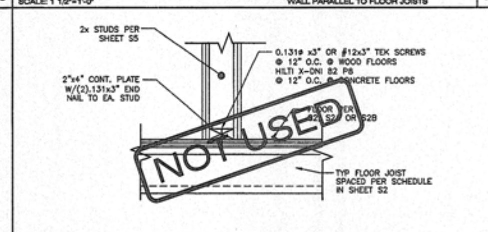
WALL HUNG HVAC DETAIL ATTACHMENT — 3
SCALE: 1 1/2"=1'-0"



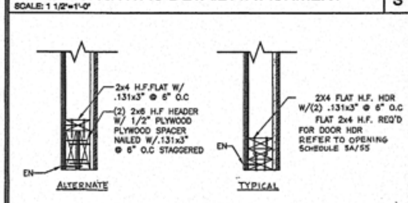
ALT. INTERIOR WAL BRACING w/EMT BRACE — 7A
SCALE: 1 1/2"=1'-0" BRACE PERPENDICULAR TO PURLINS



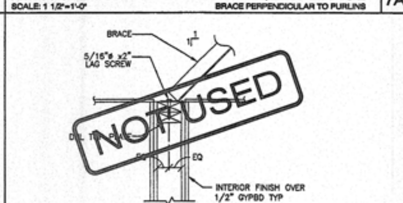
ALT. INTERIOR WALL ATTACHMENT — 11
SCALE: 1 1/2"=1'-0"



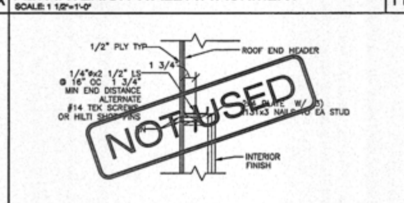
TYP. INT. NON-BEARING WALL BASE ATTACHMENT — 16
SCALE: 1 1/2"=1'-0" WALL PERPENDICULAR TO FLOOR JOISTS



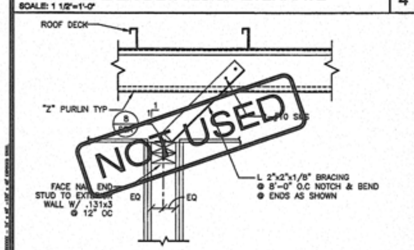
WALL HEADER DETAILS & ALTERNATE — 4
SCALE: 1 1/2"=1'-0"



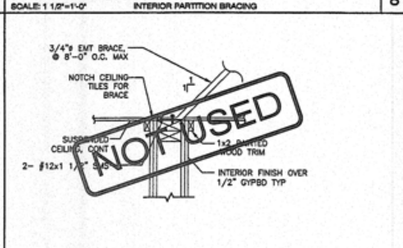
TYP. INTERIOR WALL BRACING — 8
SCALE: 1 1/2"=1'-0" INTERIOR PARTITION BRACING



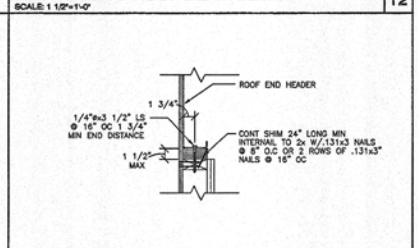
END WALL TO ROOF BEAM DETAIL — 12
SCALE: 1 1/2"=1'-0"



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



ALT. INTERIOR WALL BRACING — 9
SCALE: 1 1/2"=1'-0" INTERIOR PARTITION BRACING w/EMT BRACING



END WALL TO ROOF BEAM DETAIL WITH SHIM CONDITION — 13
SCALE: 1 1/2"=1'-0"

AMS
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SHEET TITLE
WALL FRAMING DETAILS

MANUFACTURER PROFESSIONAL OF RECORD ON PC

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
02 114730

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
PC 02-112210

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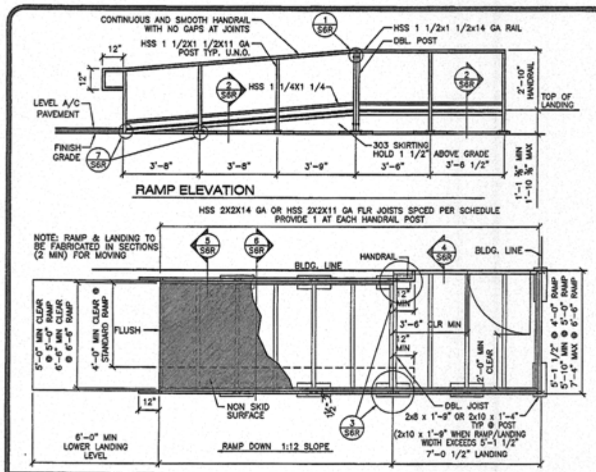
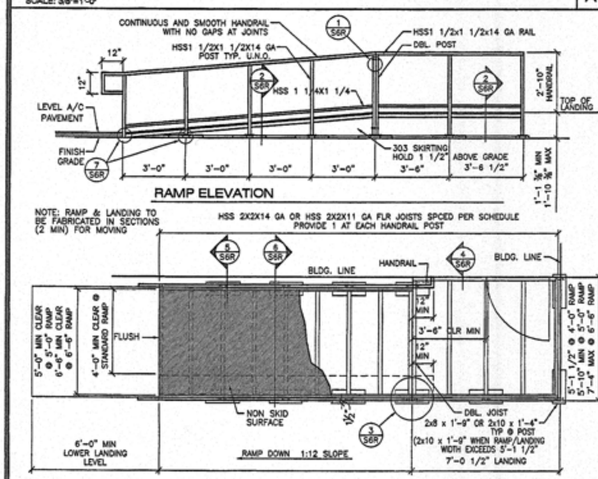
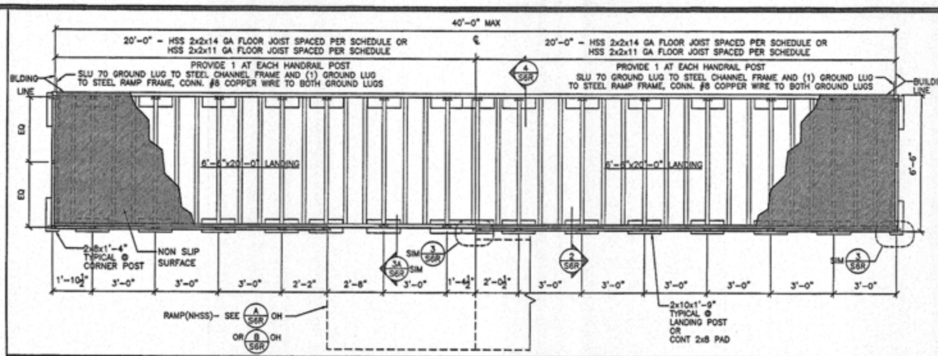
S5A



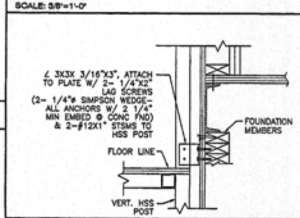
RAMP
SCALE: 3/8"=1'-0"
A



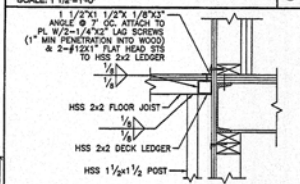
RAMP
SCALE: 3/8"=1'-0"
B



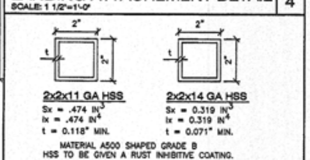
LANDING
SCALE: 3/8"=1'-0"
C



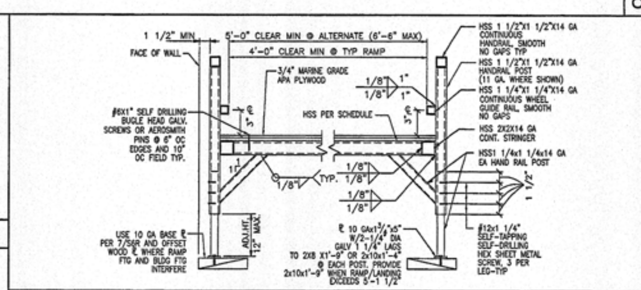
RAMP CONNECTION DETAIL
SCALE: 1 1/2"=1'-0"
5



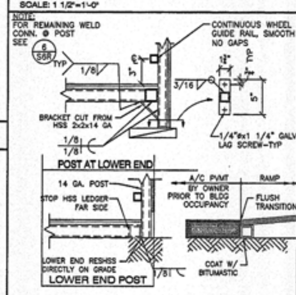
LANDING ATTACHEMENT DETAIL
SCALE: 1 1/2"=1'-0"
4



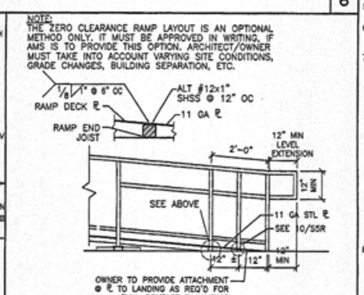
HSS PROPERTIES
SCALE: 1 1/2"=1'-0"
3A



HANDRAIL & RAMP DETAIL
SCALE: 1 1/2"=1'-0"
6



DETAIL
SCALE: 1 1/2"=1'-0"
7



TYP. ZERO CLEARANCE RAMP DETAIL
SCALE: 1 1/2"=1'-0"
STEEL DECK OPTION
9

GENERAL NOTES 20

1. ENTRY RAMP AND LANDING SPECIFICATIONS

EACH BUILDING SHALL HAVE A RAMP AND LANDING TO CONFORM TO TITLE 24 CCR SECTIONS 1133B.5, 1010 AND 1012. THE RAMP AND LANDING STRUCTURES INCLUDING HANDRAILS AND WHEEL GUIDE RAILS ARE TO BE PREFABRICATED METAL IN SECTIONS THAT ARE DEMOUNTABLE FOR MOVING AND REINSTALLATION AT A NEW SITE.HANDRAILS AND WHEEL GUIDE RAILS SHALL BE CONTINUOUS AND SMOOTH WITH NO GAPS AT JOINTS. DESIGN SHALL BE SUCH THAT HEIGHT ADJUSTMENT CAN BE MADE AT THE INSTALLATION SITE. TUBING SHALL BE STEEL CONFORMING TO ASTM A500 GRADE B. THE RAMP SURFACE SHALL BE 3/4" MARINE GRADE PLYWOOD. RAMP AND LANDING SHALL HAVE A NON-SKID SURFACE FINISH APPLIED. NON-SKID FINISH SHALL BE AMCOE GRIP II MANUFACTURED BY AMERICAN ABRASIVE METALS OR COMPARABLE. ALL RAMP SURFACES SHALL BE PAINTED AS INDICATED IN SECTION 9E SHEET N1. RAMPS SHALL HAVE HANDRAILS ON BOTH SIDES. WALL MOUNTED HANDRAILS SHALL BE OF SIMILAR CONSTRUCTION TO THE INTEGRAL RAMP HANDRAIL. RAMP AND LANDING SHALL BE FULLY SKIRTED WITH THE SAME MATERIAL USED FOR BUILDING SKIRT. SIDES OF RAMP AND LANDING THAT DO NOT ADJOIN BUILDING WALL SHALL BE SKIRTED. ALL EDGES OF THE PLYWOOD SKIRT SHALL BE SUPPORTED AND PROTECTED FROM WEATHER. FOUNDATIONMEMBERS SHALL BE AS FOR BUILDING FOUNDATION. ONLY THE FOUNDATION PAD RESTING ON GRADE MAY EXTEND BEYOND THE OUTSIDE FACE OF THE SKIRT 1" MAXIMUM

2. FLOOR DECKING:

3/4" MARINE EXT. APA 48/24 PLYWOOD W/ NON-SKID SURFACE. (SEE ALTERNATE) DECK SURFACES SHALL BE SEALED ON ALL SIDES. FASTENED TO STEEL FLOOR MEMBERS WITH #6X1" SELF DRILLING BUGLE HEAD GALV. SCREWS OR AEROSMITH PINS @ 6" OC EDGES AND 10" OC FIELD TYP.

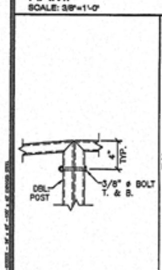
3. ALT. FLOOR DECKING:

11 GA SHEET METAL WITH NON-SKID SURFACE (0.8 MIN COEFFICIENT OF FRICTION) ATTACHED TO JOIST HSS WITH #12x1" SHSS @ 12" O.C.

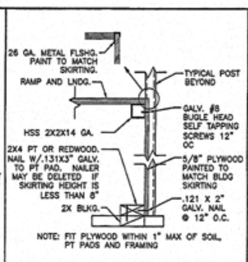
4. GROUNDING OF BUILDING COMPONET

CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING NECCESSARY CONNECTORS TO GROUND THE METAL PORTIONS OF THE BUILDING (I.E. FRAME, RAMP, ETC.) GROUNDING ROD, WIRES AND TESTING SHALL BE PROVIDED BY OTHERS AND MEET THE REQUIREMENHSS OF I.R. E-1 ISSUED BY DSA.

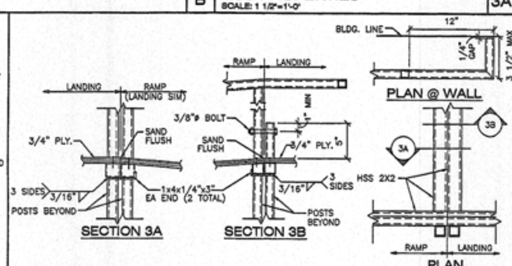
5. RAMPS: RAMPS SHALL NOT SLOPE MORE THAN 1" IN 12"
6. HANDRAILS: HANDRAILS AT BOTH SIDES OF RAMP AT 34" HIGH.
7. ARCHITECT SITE/ RAMP/ LANDING PLANNING: DUE TO VARYING SITE CONDITIONS THE MAXIMUM HEIGHT OF FINISH FLOOR FROM GRADE IS 24". THEREFORE IT IS POSSIBLE THAT THE ACCESS RAMP ATTACHED TO THE BUILDING COULD BE 24'-0" AT A SLOPE OF 1:12. ARCHITECT MUST TAKE INTO ACCOUNT THAT THE RAMP SUPPLIEDBY AMS, INC. IS 12'-0" AT A SLOPE OF 1:12 THEREFORE THE ARCHITECT WILL HAVE TO DESIGN AND PROVIDE SUFFICIENT DETAILS OF RAMP EXTENSIONSAND BOTTOM LANDING DEPENDING ON PARTICULAR SITE CONDITIONS. IN NO WAY IS AMS, INC. RESPONSIBLE FOR ANY RAMP EXTENSION EXCEEDING THE ORIGINAL PLAN AS SHOWN ON SHEET.
8. OVERALL LENGTH OF THE LANDING MAY VARY FROM 20'-0" UP TO 40'-0". LENGTH MUST CONFORM TO STRUCTURAL DESIGN OF APPROVED LANDING. (MULTIPLES OF 38")



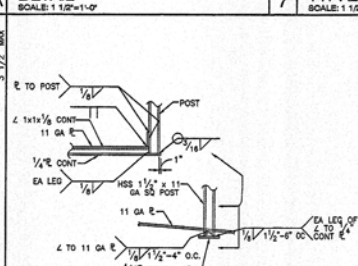
DETAIL
SCALE: 3/8"=1'-0"
1



RAMP SKIRT DETAIL
SCALE: 1 1/2"=1'-0"
2



RAMP TO LANDING CONNECTION DETAIL
SCALE: 1 1/2"=1'-0"
3



DETAIL
SCALE: 1 1/2"=1'-0"
10

RAMP/LANDING WIDTH	MAX JOIST SPACING	
	HSS 2x2x14 GA	HSS 2x2x11 GA
4'-0"	24" O.C.	24" O.C.
5'-0"	20" O.C.	24" O.C.
5'-1 1/2"	20" O.C.	24" O.C.
5'-10"	14" O.C.	21" O.C.
6'-6"	9" O.C.	13" O.C.
7'-4"	7" O.C.	10" O.C.

RAMP LANDING JOIST SPACING SCHEDULE
11

AMS
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PRE-CHECKED SET NAME
24' x 40' THRU 120' x 40' RELOCATABLE BUILDINGS

SITE SPECIFIC PROJECT NAME
AMS 24' x 40' STOCKPILE
(50) 24' x 40" RELOCATABLE BUILDINGS

SHEET TITLE
RAMP PLANS, DETAILS NOTES

MANUFACTURER PROFESSIONAL OF RECORD ON PC

PROJECT SPECIFIC STATE AGENCY APPROVAL

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A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

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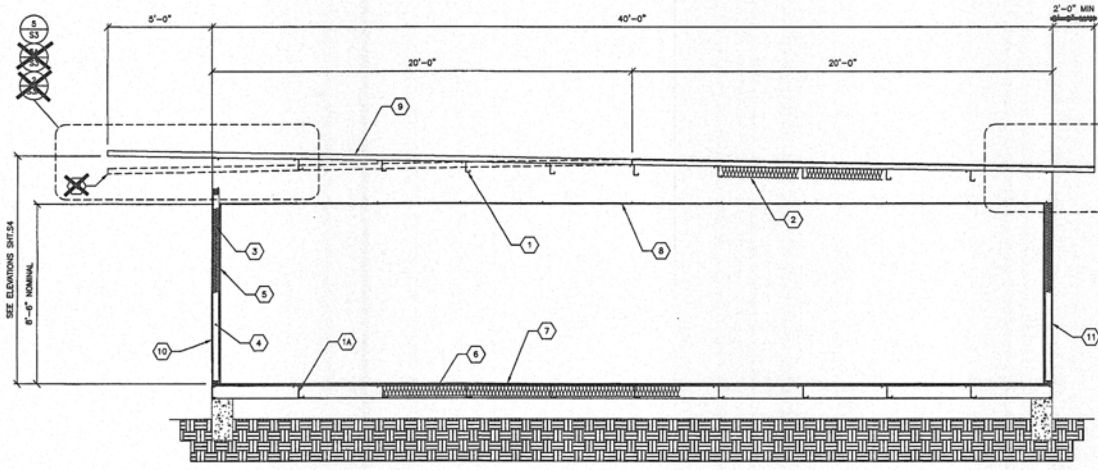
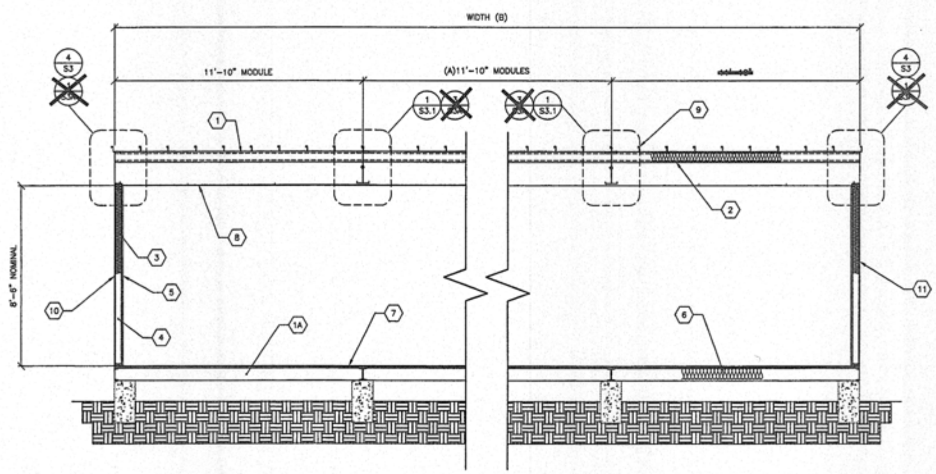


TYP. LONGITUDINAL SECTION-MONO/~~DUAL~~ PITCH A

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



TYP. TRANSVERSE SECTION-MONO/~~DUAL~~ PITCH B

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

KEY NOTES C

1. "Z" PURLINS @ 48" O.C
1A. STEEL "Z" FLOOR JOISTS
2. R-19 INSULATION w/22 GA WIRE @ 16" O.C
3. INSULATION w/KRAFT PAPER
4. 2x STUDS PER ELEV, S5
5. VINYL FABRIC OVER TACKABLE BACKING PANELS
6. INSULATION w/KRAFT PAPER AND CHICKEN WIRE
7. 1 1/8" PLYWOOD FLOOR SHEATHING FOR ALT SEE SHEET S2, S2A, S2B
8. SUSPENDED T-BAR CEILING
9. METAL ROOF PANELS SEE ROOF FRAMING PLAN
10. TYPICAL PLYWOOD NAILING .131x2¼" GALV @ 6" O.C PANEL EDGES (ALL EDGES BLOCKED).131x2¼" GALV @ 12" O.C FIELD
11. EXTERIOR WALL FINISH PER EXTERIOR ELEVATIONS
12. ~~[illegible]~~

MODULE SCHEDULE

BLDG SIZE (FT)	TOTAL # OF 12' WIDE MODULES	"A" TOTAL # OF CENTER MODULES	"B" TOTAL BLDG WIDTH
☒ 24' x 40'	2	0	23'-8 1/4"
☐ 36' x 40'	3	1	35'-6 1/2"
☐ 48' x 40'	4	2	47'-4 3/4"
☐ 60' x 40'	5	3	59'-3"
☐ 72' x 40'	6	4	71'-1 1/4"
☐ 84' x 40'	7	5	82'-11 1/2"
☐ 96' x 40'	8	6	94'-9 3/4"
☐ 108' x 40'	9	7	106'-8"
☐ 120' x 40'	10	8	118'-6 1/4"

AMS

American Modular Systems, Inc.

787 Spreckels Ave. Manteca, CA 95336

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

americanmodular.com

PRE-CHECKED SET NAME

24' x 40' THRU 120' x 40' RELOCATABLE BUILDINGS

SITE SPECIFIC PROJECT NAME

AMS 24' x 40' STOCKPILE

(50) 24' x 40" RELOCATABLE BUILDINGS

SHEET TITLE

TYPICAL LONGITUDINAL AND TRANSVERSE FRAME ELEVATION

MANUFACTURER PROFESSIONAL OF RECORD ON PC

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

02 114730 JP

AC — FLS — SS

DATE 3-9-16

REGISTERED PROFESSIONAL ENGINEER Robert J Gomes No. 85322 EXP. 09-30-13 Structural Engineer STATE OF CALIFORNIA

Robert J. Gomes

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

02 113561

AC FLS SS

DATE 1/23/14

ORIGINAL PC STATE AGENCY APPROVAL

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

PC 02-112210

AC __ FLS __ SS

DATE 2/17/12

PRE-CHECK (PC) DOCUMENT - CODE: 2010 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

REVISIONS

1.
2.
3.
4.

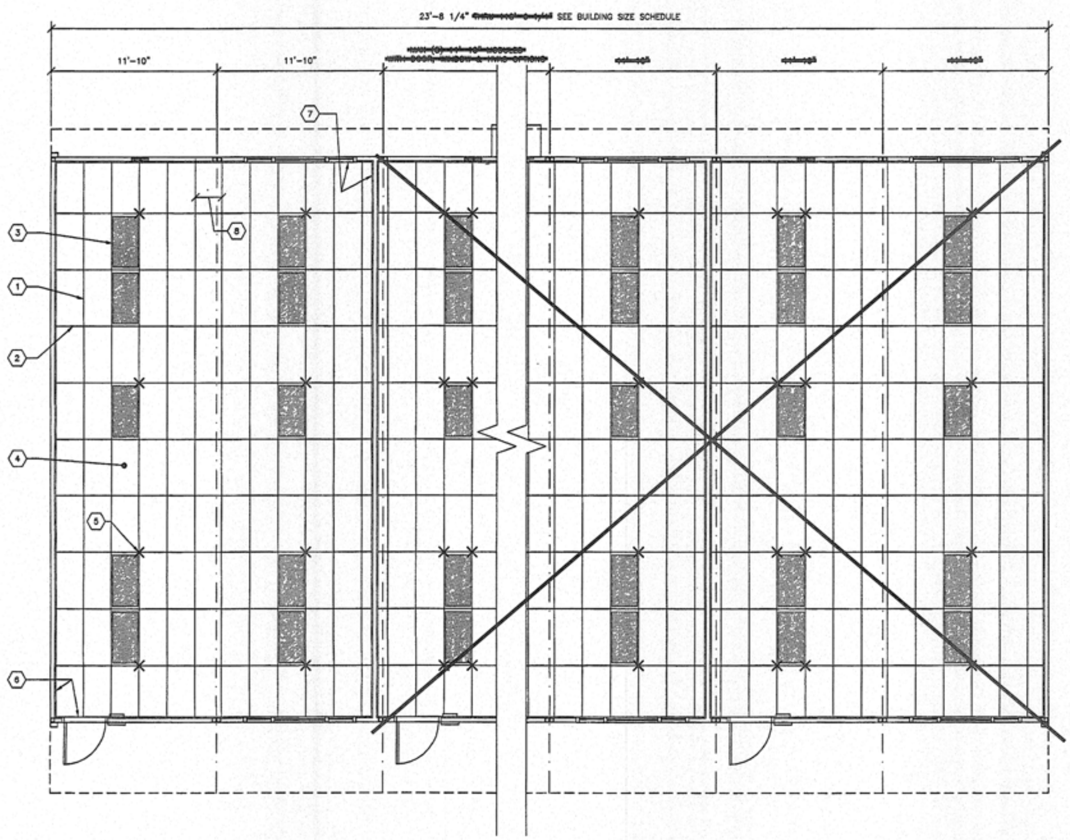
DRAWN BY:

SCALE: AS NOTED

DATE:

SHEET NUMBER

S7



TYPICAL REFLECTED CEILING PLAN
SCALE: 1/4"=1'-0"

1

(1) MAIN RUNNER TYP
(2) CROSS RUNNER TYP
(3) INTERIOR LIGHT FIXTURE
REFER TO SHEET SHEET E1 FOR SPEC'S
(4) CEILING HEIGHT @ 8'-6" NOM
(5) SPLAY WIRE
SEE 2/M2 FOR DETAILS
(6) FIXED CEILING END
(7) FREE CEILING END
(8) CENTER SECTION THAT CROSSES
MODULE LINE TO BE FIELD INSTALLED

NOTE:
WHERE TWO OR MORE HVAC UNITS SERVE A COMMON SPACE, UNITS SHALL BE EQUIPED WITH DUCT SMOKE DETECTOR FOR AUTO SHUTDOWN. INTERCONNECT WITH FIRE ALARM SYSTEM

AUTOMATIC SHUT-OFF IS NOT REQUIRED WHEN ALL OCCUPIED ROOMS SERVED BY THE AIR HANDLING EQUIPMENT HAVE DIRECT ACCESS TO THE EXTERIOR AND THE TRAVEL DISTANCE DO NOT EXCEEDS 100 FT.
PER CMC 609 EXEPTION #2

SHEET NOTES 2

PROJECT SPEC. BUILDING SIZE	BUILDING	40'-0" MODULES	OVERALL SIZE
☒	24' x 40'	2	23'-8 1/4"
☐	36' x 40'	3	35'-6 1/2"
☐	48' x 40'	4	47'-4 3/4"
☐	60' x 40'	5	59'-3"
☐	72' x 40'	6	71'-1 1/4"
☐	84' x 40'	7	82'-11 1/2"
☐	96' x 40'	8	94'-9 3/4"
☐	108' x 40'	9	106'-8"
☐	120' x 40'	10	118'-6 1/4"

BUILDING SIZE SCHEDULE 3

American Modular Systems, Inc.
787 Spreckels Ave. Manteca, CA 95336
Phone (209) 825-1921 - Fax (209) 825-7019
americanmodular.com

PRE-CHECKED SET NAME
24' x 40' THRU 120' x 40'
RELOCATABLE BUILDINGS

SITE SPECIFIC PROJECT NAME
AMS 24' x 40' STOCKPILE
(50) 24' x 40" RELOCATABLE BUILDINGS

SHEET TITLE
TYPICAL REFLECTED
CEILING PLAN

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
No. C12691
Ren. 3-31-13
STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
02 114730
AC MT FLS SS
DATE 3-4-16

PROJECT SPECIFIC STATE AGENCY APPROVAL
IDENTIFICATION STAMP
DIV OF THE STATE ARCHITECT
02 113601
AC FLS SS
DATE 11/25/14

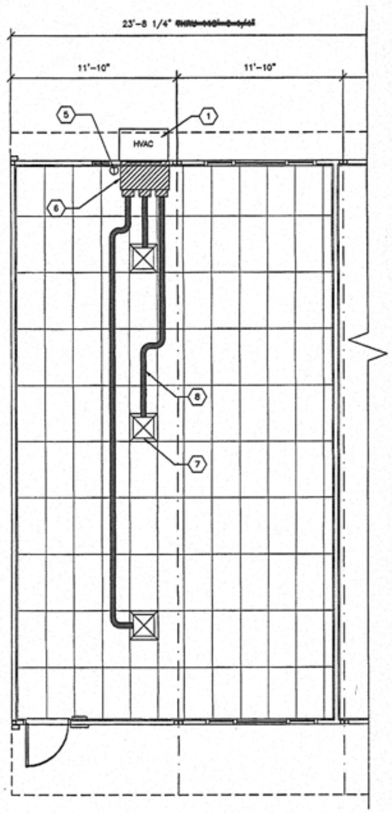
ORIGINAL PC STATE AGENCY APPROVAL
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 02-112210
AC FLS SS
DATE 2/17/12

PRE-CHECK (PC) DOCUMENT - CODE: 2010 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

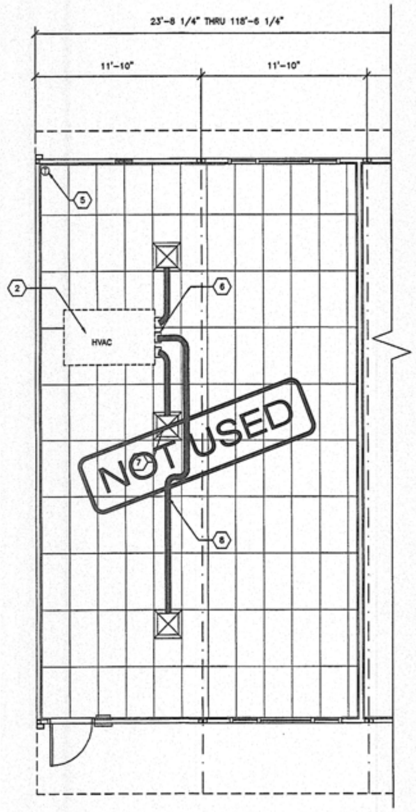
REVISIONS
1
2
3
4

DRAWN BY:
SCALE: AS NOTED
DATE:

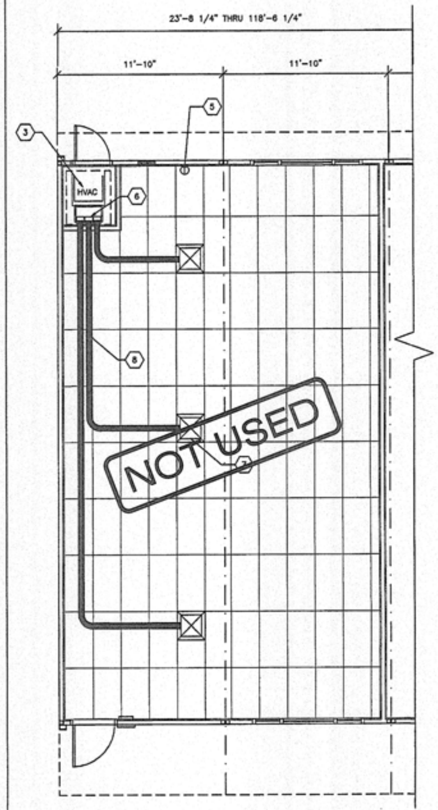
SHEET NUMBER
M1



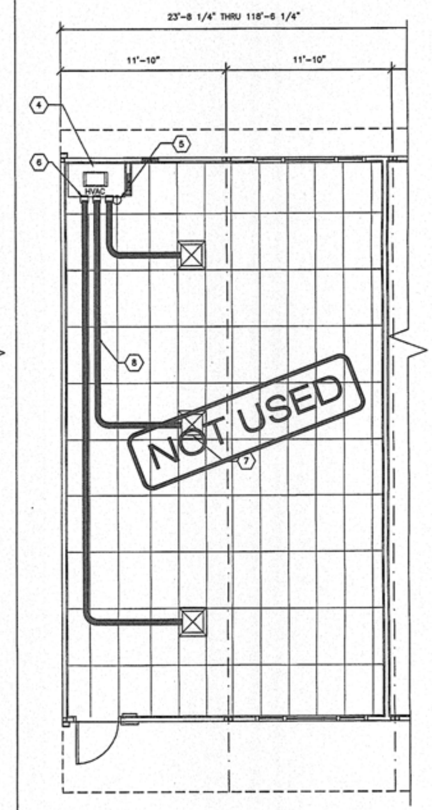
WALL HUNG OPTION
SCALE: 1/4"=1'-0" | 1



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



SPLIT SYSTEM OPTION
SCALE: 1/4"=1'-0" | 3



INTERIOR SYSTEM OPTION
SCALE: 1/4"=1'-0" | 4

1. WALL HUNG HVAC UNIT
2. ~~ROOF MOUNT UNIT~~
3. ~~SPLIT SYSTEM UNIT REFER TO DETAIL [illegible]~~
4. ~~INTERIOR SYSTEM~~
5. THERMOSTAT
6. CONCEALED SUPPLY AIR DUCT ABOVE T-BAR CEILING
7. TYPICAL 4-WAY SUPPLY AIR REGISTER LOCATION AND SIZE MAY VARY PER CEILING LAYOUT AND BUILDING SIZE
8. FLEX DUCT

NOTE:
WHERE TWO OR MORE HVAC UNITS SERVE A COMMON SPACE, UNITS SHALL BE EQUIPED WITH DUCT SMOKE DETECTOR FOR AUTO SHUTDOWN. INTERCONNECT WITH FIRE ALARM SYSTEM

AUTOMATIC SHUT-OFF IS NOT REQUIRED WHEN ALL OCCUPIED ROOMS SERVED BY THE AIR HANDLING EQUIPMENT HAVE DIRECT ACCESS TO THE EXTERIOR AND THE TRAVEL DISTANCE DO NOT EXCEEDS 100 FT.
PER CMC 609 EXEPTION #2

SHEET NOTES | 5

PROJECT SPEC. BUILDING SIZE	BUILDING	40'-0" MODULES	OVERALL SIZE
☒	24' x 40'	2	23'-8 1/4"
☐	36' x 40'	3	35'-6 1/2"
☐	48' x 40'	4	47'-4 3/4"
☐	60' x 40'	5	59'-3"
☐	72' x 40'	6	71'-1 1/4"
☐	84' x 40'	7	82'-11 1/2"
☐	96' x 40'	8	94'-9 3/4"
☐	108' x 40'	9	106'-8"
☐	120' x 40'	10	118'-6 1/4"

BUILDING SIZE SCHEDULE | 6

American Modular Systems, Inc.
787 Spreckels Ave. Manteca, CA 95336
Phone (209) 825-1921 - Fax (209) 825-7019
americanmodular.com

PRE-CHECKED SET NAME
24' x 40' THRU 120' x 40' RELOCATABLE BUILDINGS

SITE SPECIFIC PROJECT NAME

SHEET TITLE
TYPICAL MECHANICAL PLAN OPTIONS

MANUFACTURER PROFESSIONAL OF RECORD ON PC
No. C12631
STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
02 114330
AC MT FLS SS
DATE 3-9-16

PROJECT SPECIFIC STATE AGENCY APPROVAL
~~IDENTIFICATION STAMP DIV OF THE STATE ARCHITECT 02 113961 AC FLS SS DATE~~

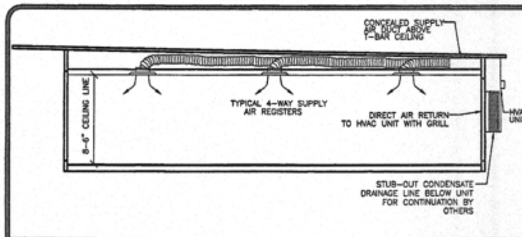
ORIGINAL PC STATE AGENCY APPROVAL
~~IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC 02-112210 AC FLS SS DATE 2/17/12~~

PRE-CHECK (PC) DOCUMENT - CODE: 2010 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

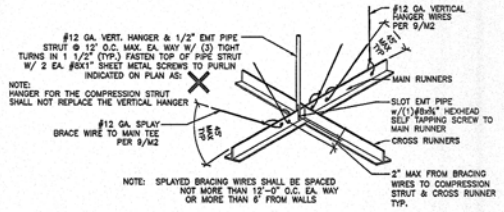
REVISIONS
1
2
3
4

DRAWN BY:
SCALE: AS NOTED
DATE:

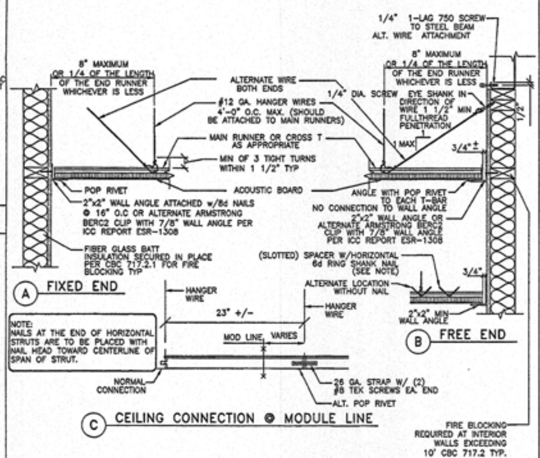
SHEET NUMBER
M1.1



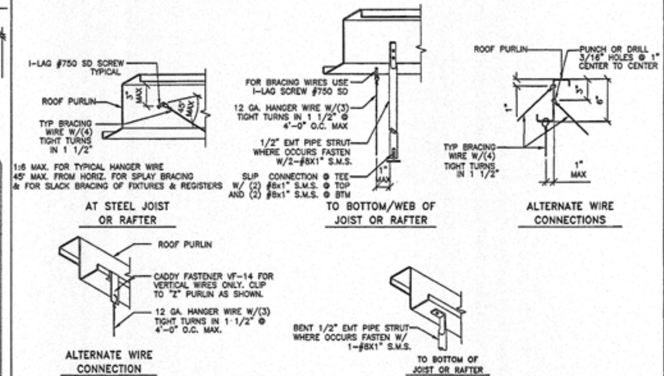
TYPICAL MECHANICAL DETAIL SECTION
SCALE: 3/16"=1'-0"
1



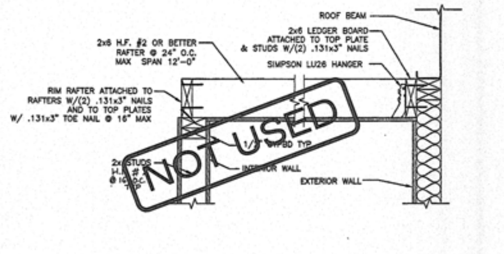
SPLAY WIRE DETAIL
SCALE: 1 1/2"=1'-0"
2



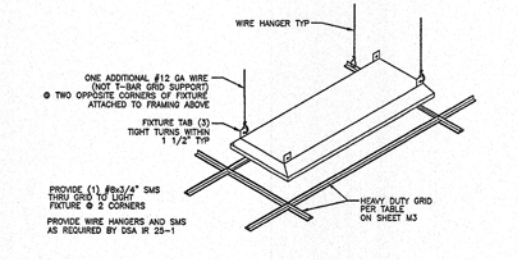
CEILING ATTACHMENTS DETAILS
SCALE: 1 1/2"=1'-0"
6



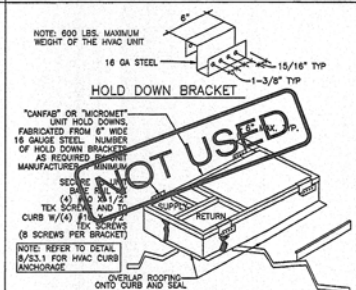
CONNECTION TO PURLINS DETAILS
SCALE: 1 1/2"=1'-0"
9



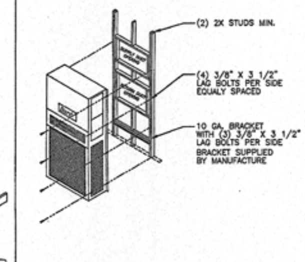
GYPSUM BOARD CEILING DETAIL - OPTIONAL
SCALE: 1 1/2"=1'-0"
3



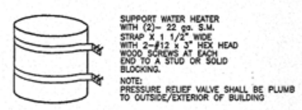
LIGHT FIXTURE ATTACHMENT DETAIL
SCALE: 3/4"=1'-0"
7



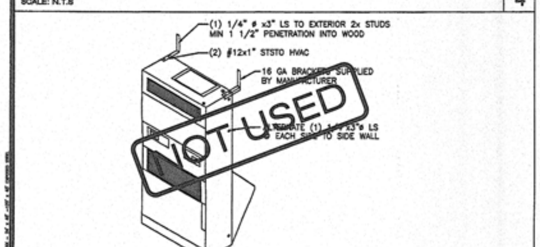
ROOF CURB ELEVATION-OPTIONAL
SCALE: N.T.S
10



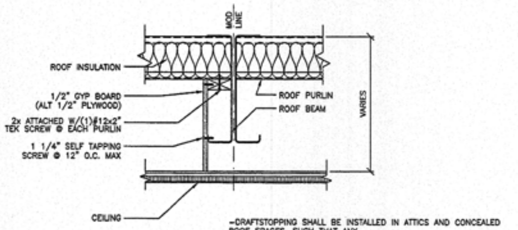
WALL MOUNT HVAC ANCHORAGE
SCALE: N.T.S
11



WATER HEATER SUPPORT DETAIL
SCALE: N.T.S
4



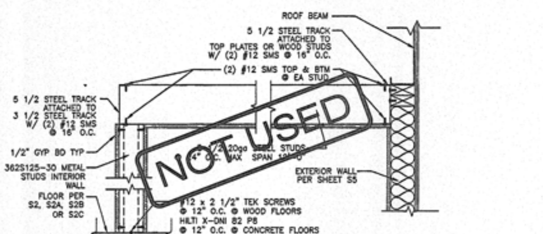
INTERIOR HVAC ANCHORAGE
SCALE: N.T.S
5



-CRAFTSTOPPING SHALL BE INSTALLED IN ATTICS AND CONCEALED ROOF SPACES, SUCH THAT ANY HORIZONTAL AREA DOES NOT EXCEED 3,000 SQUARE FEET (279 M) PER 717.4.3
EXCEPTIONS

1. IN OTHER THAN HIGH-RISE BUILDINGS, GROUP A,E,H,I AND L OCCUPANCIES AND OTHER APPLICATIONS LISTED IN SECTION 111 REGULATED BY THE OFFICE OF THE STATE FIRE MARSHAL DRAFTSTOPPING IS NOT REQUIRED IN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1

DRAFT STOP DETAIL
SCALE: 1 1/2"=1'-0"
8



GYPBOARD CEILING DETAIL w/STEEL STUDS - OPTIONAL
SCALE: 1 1/2"=1'-0"
12

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

PRE-CHECKED SET NAME
24' x 40' THRU 120' x 40' RELOCATABLE BUILDINGS

SITE SPECIFIC PROJECT NAME
AMS 24' x 40' STOCKPILE
(50) 24' x 40" RELOCATABLE BUILDINGS

SHEET TITLE
MECHANICAL BUILDING SECTIONS/PLAN

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
No. C12631
Ren. 3-31-13
STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV OF THE STATE ARCHITECT
02 114730
AC MT FLS SS
DATE 3-9-16

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV OF THE STATE ARCHITECT
02 113061
AC FLS SS
DATE 11/25/14

ORIGINAL PC STATE AGENCY APPROVAL

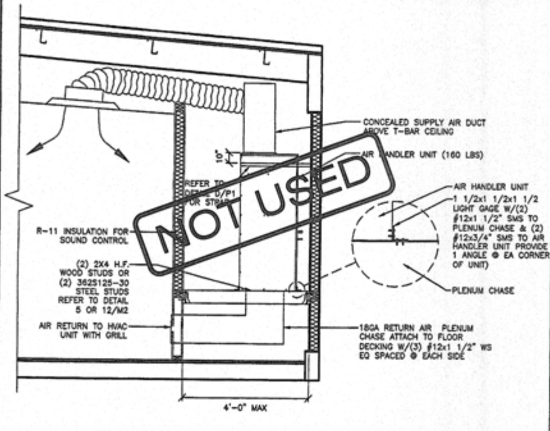
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 02-112210
AC FLS SS
DATE 7/17/12

PRE-CHECK (PC) DOCUMENT - CODE: 2010 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

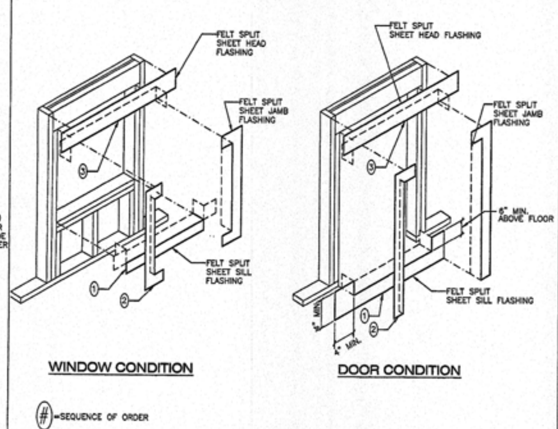
REVISIONS
1
2
3
4

DRAWN BY:
SCALE: AS NOTED
DATE:

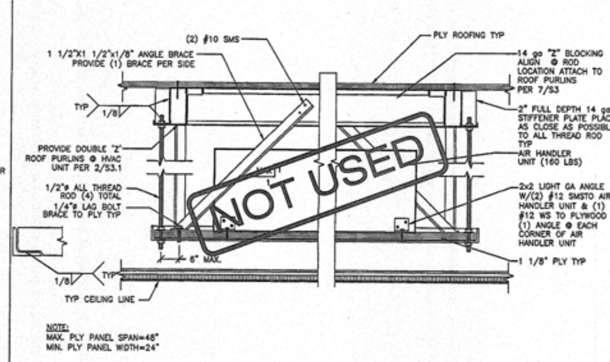
SHEET NUMBER
M2



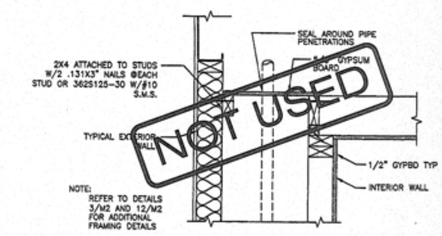
SPLIT SYSTEM CROSS SECTION
SCALE: 1/2"=1'-0" | 1



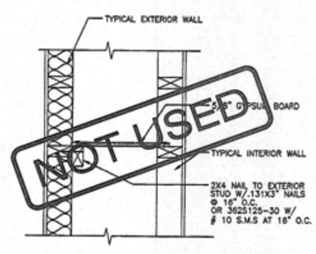
FLASHING SCHEMATIC DETAIL @ OPENINGS
SCALE: 1 1/2"=1'-0" | 2



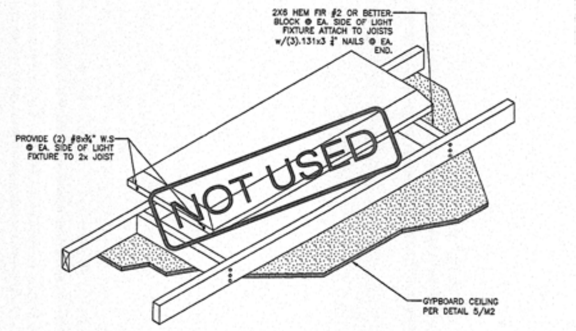
HVAC ATTIC MOUNTED SPLIT SYSTEM
SCALE: N.T.S | 3



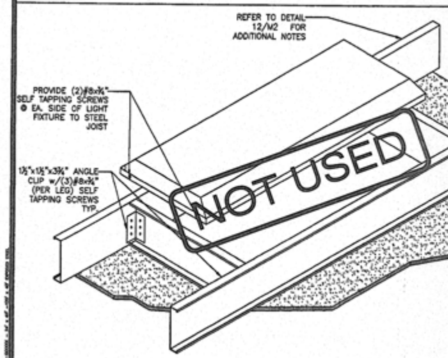
DRAFT STOP DETAIL @ PLUMBING CHASE
SCALE: N.T.S | 4



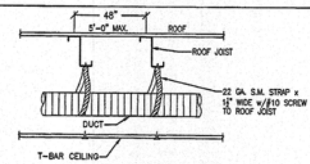
DRAFT STOP DETAIL
SCALE: N.T.S | 5



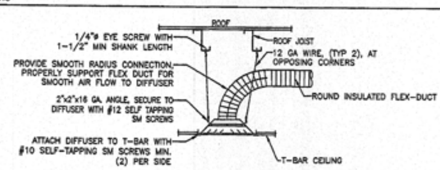
LIGHT FIXTURE ATTACHMENT DETAIL
SCALE: N.T.S
GYPSUM BOARD CEILING OPTION | 6



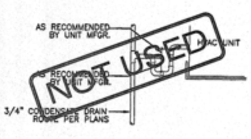
LIGHT FIXTURE ATTACHMENT DETAIL w/METAL STUDS
SCALE: N.T.S
GYPSUM BOARD CEILING OPTION | 6A



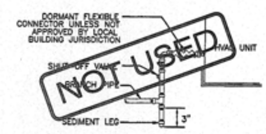
FLEX DUCTING SUPPORT DETAIL
SCALE: N.T.S | 8



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



CONDENSATE DETAIL
SCALE: N.T.S | 9



GAS CONNECTION DETAIL
SCALE: N.T.S | 10

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

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PRE-CHECKED SET NAME
24' x 40' THRU 120' x 40' RELOCATABLE BUILDINGS

SITE SPECIFIC PROJECT NAME
AMS 24' x 40' STOCKPILE
(50) 24' x 40" RELOCATABLE BUILDINGS

SHEET TITLE
CEILING & MECHANICAL DETAILS

MANUFACTURER PROFESSIONAL OF RECORD ON PC
LICENSED ARCHITECT
No. C12531
Ren. 3-31-13
STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
02 114786

PROJECT SPECIFIC STATE AGENCY APPROVAL
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
02 113801
DATE 11/25/14

ORIGINAL PC STATE AGENCY APPROVAL
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 02-112210

PRE-CHECK (PC) DOCUMENT - CODE: 2010 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

REVISIONS

DRAWN BY:
SCALE: AS NOTED
DATE:

SHEET NUMBER
M2.1

METAL SUSPENSION SYSTEMS FOR LAY IN PANEL CEILING

1. 12 GA. (MIN) HANGER WIRES MAY BE USED FOR UP TO AND INCLUDING 4'-0" x 4'-0 GRID SPACING, ATTACH TO MAIN RUNNER. SPLICES WILL NOT BE PERMITTED IN ANY HANGER WIRES UNLESS SPECIFICALLY APPROVED BY DSA.
2. PROVIDE 12 GA HANGER WIRES WITHIN 8" OF THE ENDS OF ALL MAIN AND CROSS RUNNERS OR AT 1/4 OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS AT THE PERIMETER OF THE CEILING AREA.
3. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO MAINTAIN HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS OR DISCONTINUOUS AREA. HANGER WIRES THAT ARE MORE THAN 1 IN 6 OUT OF PLUMB ARE TO HAVE COUNTERBRACED WIRES.
4. CEILING GRID MEMBERS MAY BE ATTACHED TO NOT MORE THAN 2 ADJACENT WALLS. CEILING GRID MEMBERS SHOULD BE AT LEAST 3/4 INCH FREE OF OTHER WALLS. IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD BE FREE AND A MINIMUM OF 3/4 INCH CLEAR OF WALL.
5. AT THE PERIMETER OF THE CEILING AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN THE RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADING. A METAL STRUT OR A 16 GA WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNERS MAY BE USED. WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNERS IS 12" OR LESS, THIS INTERLOCK IS NOT REQUIRED.
6. PROVIDE SETS OF 4-#12 GA. SPLAYED BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER AT THE FOLLOWING SPACING:
   - (A) FOR SCHOOL BUILDINGS, PLACE SETS OF SPLAY WIRES AT A SPACING NOT MORE THAN 12 FEET BY 12 FEET ON CENTER.
   - (B) PROVIDE SPLAY WIRES AT LOCATIONS NOT MORE THAN 1/2 THE ABOVE SPACING FROM EACH PERIMETER WALL OR AT THE EDGE OF VERTICAL CEILING OFFSETS

   THE SLOPE OF THESE WIRES SHOULD NOT EXCEED 45 DEGREES FROM THE PLANE OF THE CEILING AND SHOULD BE TAUT WITHOUT CAUSING THE CEILING TO LIFT. SPLICES IN BRACING WIRES ARE NOT PERMITTED WITHOUT SPECIAL DSA APPROVAL.
7. FASTEN HANGER WIRES WITH NOT LESS THAN 3 TIGHT TURNS. FASTEN SPLAY WIRES WITH 4 TIGHT TURNS. MAKE ALL TIGHT TURNS WITHIN A DISTANCE OF 1 1/2 INCHES. HANGER OR BRACING WIRE ANCHORS TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE WIRE ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE FORCES ACTING ON THE WIRE.
8. SEPARATE ALL CEILING HANGING AND BRACING WIRES AT LEAST 6 INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT ETC.,
9. ATTACH ALL LIGHT FIXTURES AND AIR TERMINALS TO THE CEILING GRID RUNNERS WITH SCREWS OR APPROVED FASTENERS AS REQUIRED TO RESIST A HORIZONTAL FORCE EQUAL TO THE FIXTURES WEIGHT. MIN. OF TWO ATTACHMENTS ARE REQUIRED AT EACH LIGHT FIXTURE.
10. FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS WEIGHING LESS THAN 56 POUNDS MAY BE SUPPORTED DIRECTLY ON THE RUNNERS OF A HEAVY DUTY GRID SYSTEM BUT, IN ADDITION, THEY MUST HAVE A MINIMUM OF 2-#12 GA. SLACK SAFETY WIRES ATTACHED AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE.
    ALL LIGHT-WEIGHT MISCELLANEOUS DEVICES, SUCH AS STROBE LIGHTS, SPEAKERS, ETC., SHALL BE ATTACHED TO THE CEILING GRID PER SECTION 7.1 OF D.S.A IR 25-2.10. IN ADDITION, DEVICES WEIGHING MORE THAN 10 LBS SHALL HAVE A #12 SLACK SAFETY WIRE ANCHORED TO THE STRUCTURE ABOVE. DEVICES WEIGHING MORE THAN 20 LBS. SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE PER SECTION 7.3 OF D.S.A IR 25-2.10
11. CLASSIFICATION OF CEILING GRID:
    CLASSIFICATION OF CEILING GRID IS "HEAVY DUTY" CHICAGO METALLIC, OR DONN(USG) PER ASTM C635
    MANUFACTURER'S CATALOG NUMBER - MAIN RUNNER HEAVY DUTY MAIN TEE OR EQUAL #200-01 OR DX26.
    MANUFACTURER'S CATALOG NUMBER - CROSS RUNNER CHICAGO METALLIC 1214-01 OR DONN DX 416 CROSS TEES.
    MANUFACTURER'S CATALOG NUMBER OF DETAIL FOR RUNNER SPLICE N/A.
    ACOUSTICAL PANELS SHALL BE 5/8" MINIMUM THICK, MINERAL FIBERBOARD OR VINYL-FACED FIBERGLASS LAY-IN PANELS SQUARE EDGE ASTM FLAME SPREAD CLASS T, 24" X 48" MODULAR SIZE, LIGHT REFLECTION 75% MINIMUM, NOISE REDUCTION COEFFICIENT OF 0.65 MINIMUM. MAXIMUM SMOKE DENSITY NOT TO EXCEED 450.

TABLE A HEAVY DUTY GRID COMPONENTS

MANUFACTURER	MAIN TEE	H.D. 4' CROSS TEE	H.D. 2' CROSS TEE
DONN/USG	DX-26	DX-424	DX-216
ARMSTRONG	7301	7341	7323
CHICAGO MET.	200-01	1204-01	1226-01

NOTE: ALL GRID COMPONENTS SHALL BE BY SAME MANUFACTURER

BARD WALL HUNG

HVAC CFM CHART

MODEL NUMBER	DESCRIPTION	MAX. CFM	UNIT WEIGHT LBS.
WH421-A	3 1/2 TON HEAT PUMP	1400	530
~~WH482-A~~	~~4 TON HEAT PUMP~~	~~1650~~	~~560~~
~~WH602-A~~	~~5 TON HEAT PUMP~~	~~1700~~	~~560~~

BARD Q-TEC

HVAC CFM CHART

NOT USED

MODEL NUMBER	DESCRIPTION	MAX. CFM	UNIT WEIGHT LBS.
QH422	3 1/2 TON HEAT PUMP	1200	530
QH482	4 TON HEAT PUMP	1400	560
QH602	5 TON HEAT PUMP	1550	560

CARRIER ROOF MOUNT

HVAC CFM CHART

NOT USED

MODEL NUMBER	DESCRIPTION	MAX. CFM	UNIT WEIGHT LBS.
50EZ-A42	3 1/2 TON HEAT PUMP	1400	419
50EZ-A48	4 TON HEAT PUMP	1600	437
50EZ-A60	5 TON HEAT PUMP	1850	462

SPLIT SYSTEM

HVAC CFM CHART

NOT USED

EXTERIOR UNIT MODEL NUMBER	AIR HANDLER MODEL NUMBER	DESCRIPTION	MAX. CFM	AIR HANDLER UNIT WEIGHT LBS.	EXTERIOR UNIT WEIGHT LBS.
25HBB3-42-30	FX4CN0420	3 ½" TON HEAT PUMP	1400	170	246
25HBB3-48-30	FX4CN0480	4 TON HEAT PUMP	1600	170	240
25HBB3-60-30	FX4CN0600	5 TON HEAT PUMP	2000	198	250

GENERAL NOTES

HEATING VENTILATING AND AIR CONDITIONING (HVAC)

1. HEAT PUMP: SINGLE PACKAGE WALL MOUNTED AIR TO AIR ELECTRIC HEAT PUMP UNIT SHALL BE RATED IN ACCORDANCE WITH ARI STANDARD 240-77.

   REFERENCE BRANDS: BARD WH421-AXXXXXXX
   ~~BARD WH482-AXXXXXXX~~
   ~~BARD WH602-AXXXXXXX~~
   ~~BARD QH422-AXXXXXXX~~
   ~~BARD QH482-AXXXXXXX~~
   ~~BARD QH602-AXXXXXXX~~
   ~~CARRIER 50EZ-A42-AXXXXXXX~~
   ~~CARRIER 50EZ-A48-AXXXXXXX~~
   ~~CARRIER 50EZ-A60-AXXXXXXX~~
   ~~CARRIER 25HBB3-42-30-AXXXXXXX~~
   ~~CARRIER 25HBB3-48-30-AXXXXXXX~~
   ~~CARRIER 25HBB3-60-30-AXXXXXXX~~
   ~~CARRIER FX4CNF042~~
   ~~CARRIER FX4CNF048~~
   ~~CARRIER FX4CNF060~~

   MAXIMUM AC SIZE FOR THIS BUILDING WILL BE A 5-TON UNIT

   ALL UNITS SHALL BE 230/208 VOLT, 1 PHASE SYSTEM, UL TESTED & APPROVED OR COMPARABLE AND MEET CURRENT ENERGY STANDARDS.

   A.) THE SYSTEM SHALL MAINTAIN AN AUTOMATICALLY CONTROLLED INDOOR CLASSROOM TEMPERATURE OF 78 DEGREES

   F. WHEN THE OUTDOOR DRY BULB TEMPERATURE VARIES BETWEEN 100 DEGREES F. IN THE SUMMER

   B.) THE SYSTEM MUST MAINTAIN THE ABOVE TEMPERATURE WHEN THE DAMPER IS ADJUSTED TO USE APPROXIMATELY ONE THIRD FRESH AIR.
2. DUCTWORK.

   A.) CONSTRUCT ALL DUCTWORK OF GALVANIZED SHEET METAL IN ACCORDANCE WITH C.M.C., ASHRAE GUIDE EQUIPMENT VOLUME AND SMACNA LOW VELOCITY DUCT CONSTRUCTION MANUAL LATEST EDITIONS. ALL DUCTWORK SHALL BE INSULATED WITH 1" THICK FIBERGLASS DUCT WRAP WITH VAPOR BARRIER. PROVIDE 1" DUCT ATTENUATION AT ALL DUCTWORK WITHIN 2'-0" OF HVAC UNIT.

   B.) NON-METALLIC DUCTWORK OPTION: IN ACCESSIBLE CONCEALED PORTIONS OF DUCT SYSTEM RIGID 1" FIBERGLASS OR INSULATED FLEX-DUCT WITH VAPOR BARRIER MAY BE SUBSTITUTED FOR SHEET METAL DUCTWORK. ALL DUCTWORK WITHIN 2'-0" OF THE HVAC UNIT AND ALL INTERFACE CONNECTIONS SHALL BE METAL. DUCTWORK AND REINFORCEMENT SHALL BE DESIGNED FOR 2" STATIC PRESSURE.
   REFERENCE BRANDS: OWENS-CORNING FIBERGLASS DUCTTBOARD, 1" THICK, AND MICRO-AIRE, TYPE 475.
   NON-METALLIC DUCTWORK SHALL CONFORM TO NFPA 90-A AND SMACNA CLASS 1 RATING.
3. AIR DUCT INSULATION AND LININGS SHALL COMPLY WITH FLAME SPREAD LESS THAN OR EQUAL TO 25, SMOKE GENERATION LESS THAN OR EQUAL TO 50.
4. SUPPLY AIR DIFFUSERS SHALL BE 675 CFM MAX. 12" ROUND.
   1" FIBERGLASS OR FLEXDUCT
   DUCTWORK SPECIFICALLY DESIGNED TO PROVIDE AIR THERMAL COOLING SYSTEMS. 24"X8"X1" MICRO-AIRE TYPE #475 OWENS-CORNING, KNAUF, CERTAINTEED, OR EQUAL AND 90- B: UL #131 TEST, CLASS 1 RATING WITH "SMACNA".
5. REGISTERS AND DIFFUSERS: PROVIDE THREE (MIN) 4-WAY THROW AIR DIFFUSERS AS MANUFACTURED CARNES, TITUS, HART AND COOLEY, METALAIRE, SHOEMAKER, BARBER-COLEMAN OR KRUEGER COMMERCIAL GRADE GRILLS AND REGISTERS
6. AIR CONDITIONING CONTROLS.
   THERMOSTAT: PROVIDE ELECTRONIC PROGRAMMABLE THERMOSTAT. THERMOSTAT SHALL HAVE THE FOLLOWING FUNCTIONS.
   - A.) 5 AND 2 WEEKDAY/WEEKEND PROGRAMMING WITH 4 SEPARATE TIME/TEMPERATURE SETTING FOR 24-HOUR PERIOD.
   - B.) KEY BOARD LOCKOUT SWITCH.
   - C.) PROGRAMMABLE DISPLAY.
   - D.) 2-HOUR OVERRIDE MINIMUM.
   - E.) STATUS INDICATED LED'S.
   - F.) BATTERY BACK-UP.

   PROVIDE LOCKING CLEAR THERMOSTAT COVER WITH THERMOSTAT COVER WITH ACCESS HOLE FOR PROGRAM OVERRIDE. WHITE RODERS IF92-371. MOUNT @ +60" w/COVER (SEALED-SETTING ADJUSTMENTS CAN BE DONE BY SERVICE PERSONNEL ONLY.)
   +48" UNSEALED.
7. THERMAL INSULATION
   - A.) ROOF INSULATION: R-19 UNFACED.
   - B.) WALLS INSULATION: R-13 KRAFT FACED.
   - C.) FLOORS INSULATION: CONCRETE FLOOR

   FLAME SPREAD AND SMOKE DEVELOPMENT SHALL CONFORM TO CALIFORNIA BUILDING CODE SEC. 719.
8. FACTORY-MADE AIR DUCTS. FACTORY-MADE AIR DUCTS SHALL BE APPROVED FOR THE USE INTENDED OR SHALL CONFORM TO THE REQUIREMENTS OF U.M.C. STANDARD NO. 6-1. EACH PORTION OF A FACTORY-MADE AIR DUCT SYSTEM SHALL BE IDENTIFIED BY THE MANUFACTURER WITH A LABEL OR OTHER SUITABLE IDENTIFICATION INDICATING COMPLIANCEWITH U.M.C. STANDARD NO. 6-1 AND ITS CLASS DESIGNATION. THESE DUCTS SHALL BE LISTED AND SHALL BE INSTALLED IN ACCORDANCE WITH THE TERMS OF THEIR LISTING AND THE REQUIREMENTS OF UMC STD. 6-1.

   DUCT SUPPORT
   FLEX DUCT TO BE SUPPORTED WITH 1-1/2" WIDE X 26 GA. GALV. STRAP @ MAX 6'-0" O.C. ATTACH TO RAFTER W/2 #8 SMS @ EACH END.
   SUPPLY AIR PLENUM TO BE SUPPORTED WITH 1-1/2" WIDE X 26 GA. GALV. STRAPS MIN. 2 PER PLENUM.
   SUPPLY AIR BOX AND DIFFUSERS TO BE SUPPORTED WITH (2) 12 GA. HANGER WIRES TO BOX @ OPPOSITE CORNERS.
   SUPPLY AIR BOX AND DIFFUSERS TO BE BRACED WITH (2) 12 GA. SLACK WIRES TO BOX @ OPPOSITE CORNERS. ATTACH SUPPLY AIR DIFFUSERS TO CEILING GRID TO RESIST A LATERAL LOAD EQUAL TO THE WEIGHT OF THE DIFFUSER AND SUPPLY AIR BOX W/2 #8 SMS.
9. FIREBLOCKING:
   SHALL BE PROVIDED IN THE FOLLOWING LOCATION:
   IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES, AT THE CEILING AND FLOOR LEVELS AND AT 10-FOOT (3048mm) INTERVALS BOTH VERTICAL AND HORIZONTAL. SEE 2010 CBC SECTION 717.2

INSULATION SCHEDULE

ZONE	WALL	ROOFS	FLOORS
1-14, 15 & 16	R -13	R -19	R -13

HVAC SCHEDULE

BUILDING SIZE	# OF HVAC: 3 ½ TON HVAC	4 TON HVAC	5 TON HVAC
☒ 24' x 40'	1		
☐ 36' x 40'		1	
☐ 48' x 40'	2		
☐ 60' x 40'		2	
☐ 72' x 40'			2
☐ 84' x 40'			2
☐ 96' x 40'		3	
☐ 108' x 40'			3
☐ 120' x 40'			3

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

PRE-CHECKED SET NAME
24' x 40' THRU 120' x 40' RELOCATABLE BUILDINGS

SITE SPECIFIC PROJECT NAME
AMS 24' x 40' STOCKPILE
(50) 24' x 40" RELOCATABLE BUILDINGS

SHEET TITLE
CEILING & MECHANICAL NOTES

MANUFACTURER PROFESSIONAL OF RECORD ON PC
LICENSED ARCHITECT
No. C12631
Ren. 3-31-13
STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
02 114780
AC MT FLS SS
DATE 3-9-16

PROJECT SPECIFIC STATE AGENCY APPROVAL
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
02 113604
AC FLS SS
DATE

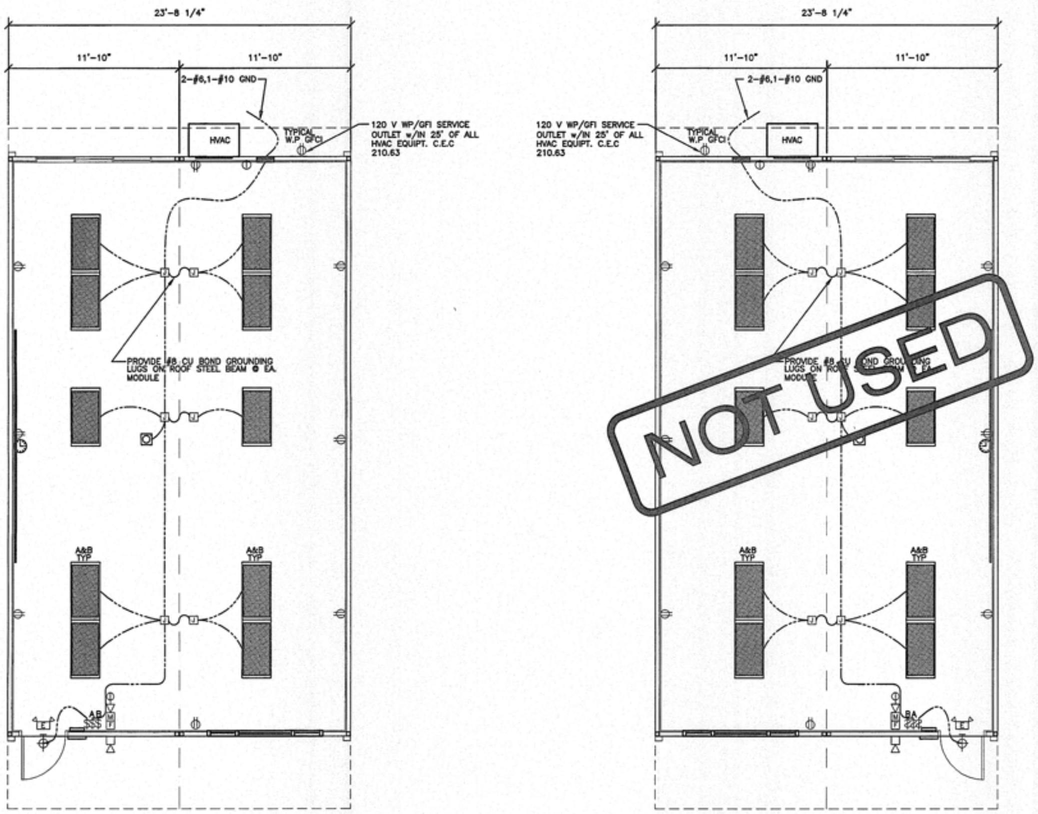
ORIGINAL PC STATE AGENCY APPROVAL
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 02-112210
AC FLS SS
DATE 2/10/12

PRE-CHECK (PC) DOCUMENT - CODE: 2010 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

REVISIONS
1
2
3
4

DRAWN BY:
SCALE: AS NOTED
DATE:

SHEET NUMBER
M3



TYPICAL ELECTRICAL PLAN

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

A

PROJECT SPEC. BUILDING SIZE	BUILDING	40'-0" MODULES	OVERALL SIZE
☒	24' x 40'	2	23'-8 1/4"
☐	36' x 40'	3	35'-6 1/2"
☐	48' x 40'	4	47'-4 3/4"
☐	60' x 40'	5	59'-3"
☐	72' x 40'	6	71'-1 1/4"
☐	84' x 40'	7	82'-11 1/2"
☐	96' x 40'	8	94'-9 3/4"
☐	108' x 40'	9	106'-8"
☐	120' x 40'	10	118'-6 1/4"

BUILDING SIZE SCHEDULE

EXIT LIGHT WHEN THE OCCUPANT LOAD IS 50 OR MORE

INCANDESCENT WALL MOUNTED INTERIOR LIGHT FIXTURE

DUPLEX WALL CONVENIENCE OUTLETS @ +15" MIN A.F.F. TO BOTTOM OF BOX.

FOURPLEX WALL OUTLET @ +15" MIN A.F.F. TO BOTTOM OF BOX.

W.P GFCI — WEATHER PROOF GROUND FAULT CIRCUIT INTERRUPT OUTLET

GFCI — GROUND FAULT CIRCUIT INTERRUPT OUTLET

$ — SINGLE POLE LIGHT SWITHCES @ +48", TO TOP OF BOX HUBBELL PREMIUM, BRYANT HEAVY DUTY, OR LEVITON SPECIFICATIONS GRADE.

ELECTRICAL CROSSOVER J-BOXES ABOVE T-BAR CEILING #1-4"X1", #22 4"X2"

CLOCK/SPEAKER COMBO @ +90"

a — SWITCH SUBSCRIPTS – a=DEVICE CONTROLLED.

JUNCTION BOX – SIZE AND TYPE AS REQUIRED.

SPEAKER- OUTLET ONLY – 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +84"

DATA/COMMUNICATION OUTLET ONLY- 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +18" U.O.N. AND A 3/4" CONDUIT STUB CEILING SPACE.

INTERCOM TELEPHONE- OUTLET ONLY- 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +48" U.O.N.

MOTION SENSOR OUTLET STUB-UP -PROVIDE (1)4" SQ. BOX W/ SINGLE DEVICE RING AND COVER AND ONE 3/4" CONDUIT STUB TO ABOVE CEILING (DEVICES BY OTHERS)

SECURITY/INTRUSSION KEY PAD – OUTLET ONLY- 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER @ +48" AND ONE 3/4" CONDUIT STUB ABOVE CEILING

DOOR CONTACT – PROVIDE (1) EMPTY 1/2"ø EMT THROUGH DOOR HEADER STUB ABOVE CEILING

CATV — CATV OUTLET STUB-UP -PROVIDE (1)4" SQ. BOX W/ SINGLE DEVICE RING AND COVER AND(1) 3/4"ø CONDUIT TO ABOVE CEILING (DEVICES BY OTHERS)

* FIRE ALARM PULL STATION – OUTLET ONLY, 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +48". (DEVICE N.I.C.)

* FIRE ALARM HORN – OUTLET ONLY – 4" SQ. SINGLE GANG J-BOX WITH BLANK WEATHERPROOF COVER @ +90" MIN (DEVICE N.I.C.)

* FIRE ALARM VISUAL ALARM- OUTLET ONLY – 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +80". A.F.F. BUT NO GREATER THAN +96". IF CEILING MOUNTED PER NFPA72 TABLE 6-4.4.1(b).

* MINI HORN BOX W/ SINGLE DEVICE RING AND COVER @ +80"A.F.F. BUT NO GREATER THAN +96". STUB TO ATTIC

THERMOSTAT @ +60" SEALED, +48" A.F.F UNSEALED TO TOP OF BOX

ULTRASONIC OCCUPANCY SENSOR

ELECTRICAL PANEL

EMERG. LIGHTING w/BATTERY BACKUP WHEN THE OCCUPANT LOAD IS 50 OR MORE AND TWO EXITS OR MORE ARE REQUIRED

2'X4' FLOURESCENT DROP IN FIXTURE, ACRYLIC PRISMATIC LENS. T-8 ELECTRONIC BALLASTS (3)32 WATT TUBES,(28W) WT. 27 LBS. COOPER 2GR8328T8AUNVL8741EB82A38318G OR EQUAL & 2GR8232T8AUNVL8741EB82A38318G OR EQUAL

ENERTRON OR EQUAL FLOURESCENT SURFACE MOUNTED EXTERIOR LIGHT WITH IMPACT RESISTANT ENCLOSURE. .125 THICK CLEAR PRISMATIC ONE PIECE LENS W/NEOPRENE GASKET & POSIGRIP STAINLESS STEEL SCREWS. (PROVIDE EMERGENCY BATTERY BACK-UP WHEN TWO OR MORE EXITS OCCUR AND THE OCCUPANT LOAD IS 50 OR MORE

STANDARD ELECTRICAL SYMBOLS

1

* 1.-F.A. : STUB-UP ALL FIREALARM JUNCTION BOXES TO ACCESSIBLE ATTIC SPACE WITH 1/2" MIN. GALV. THIN WALL TUBING (EMT). DO NOT CONNECT FIRE ALARM CONDUIT WITH ANY OTHER ELECTRICAL CONDUIT- PROVIDE PULL STRINGS IN CONDUIT.

2.-IF OPTIONAL DOOR OCCURS A PULL STATION J-BOX AND EXIT SIGN ARE REQUIRED. PULL STATIONS ARE REQUIRED @ EVERY EXIT

3.-STUB OUT LOCATIONS FOR ELECTRICAL PANEL, FIRE ALARM, AND DATA BOXES SHOWN ARE DIAGRAMITICAL ONLY EXACT LOCATIONS MAY VARY +/- SEVERAL FEET. PLEASE CONTACT AMERICAN MODULAR SYSTEMS FOR EXACT LOCATIONS. POINT OF CONNECTION WILL BE AT FACE OF BUILDING.

4.-SEE TYPICAL CLASSROOM LAYOUT FOR LOCATIONS OF ALL DEVICES. FIXTURE MOUNTING SHALL COMPLY WITH CALIFORNIA SEISMIC REGULATIONS.

5.-THE LIGHTS FOR EACH ROOM OVER 250' SQ FT SHALL BE CONTROLLED BY ULTRASONIC OCCUPANCY SENSOR. WATT STOPPER W-500A, W-1000A,OR W-2000A (OR EQUAL) BASED ON THE ROOM SIZE IN CONJUCTION WITH BI-LEVEL SWITCHING.

NOTE:
AT ANY SPACE REQUIRING 2 OR MORE EXITS PROVIDE EXIT SIGNS (CBC 1011) AND EMERENCY EXIT ILLUMINATION (CBC 1006)

NOTE:
THE PROJECT ARCHITECT SHALL BE RESPONSIBLE FOR THE PLACEMENT OF HEAT, SMOKE DETECTORS AND PULL STATIONS WHEN THE SITE SPECIFIC PROJECT IS REQUIRED TO MEET THE PROVISIONS OF SB 575 & CBC 907.2.3

GENERAL NOTES

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americanmodular.com

PRE-CHECKED SET NAME

24' x 40' THRU 120' x 40'
RELOCATABLE BUILDING

SITE SPECIFIC PROJECT NAME

AMS 24' x 40' STOCKPILE
(50) 24' x 40' RELOCATABLE BUILDINGS

SHEET TITLE

TYPICAL ELECTRICAL OPTIONS

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV OF THE STATE ARCHITECT
02 114330
AC
DATE 3-9-16

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV OF THE STATE ARCHITECT
02 113961
AC
DATE 11/25/14

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT – CODE 2010 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

REVISIONS

DRAWN BY:
SCALE: AS NOTED
DATE.

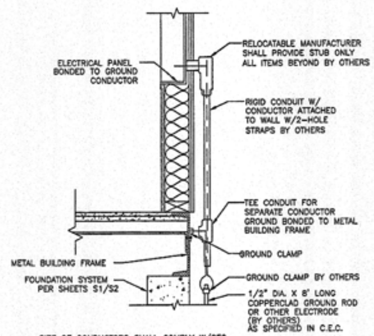
SHEET NUMBER

E1

VOLTS: 120/240 SINGLE PHASE													
MAIN: 100 AMP MAIN BKR.					PANEL "A" LOCATION: INTERIOR					FEED: EXTERIOR LB MOUNTING: FLUSH			
LOAD	WATTS		BRK.		CIR	A	B	CIR	BRK.		WATTS		LOAD
	A	B	AMP	P					P	AMP	A	B	
RECEPTS	1440		20	1	1			2	2	35	3216		A/C HVAC UNIT
EXIT LIGHT / EXTERIOR LIGHTS		300	20	1	3			4	–	35		3216	A/C HVAC UNIT
INTERIOR LIGHTS	1440		20	1	5			6					
F.A.C.P		•			7			8					
					9			10					
					11			12					
					13			14					
					15			16					
PHASE WATTAGE	2880	300			17			18			3216	3216	PHASE WATTAGE
TOTAL WATTS "A" LEG = 6096				TOTAL WATTS A+B= 9612						TOTAL WATTS "B" LEG = 3516			
TOTAL WATTS = 9612			40 AMPS			120/240V		SINGLE PHASE				125AMP BUS.	
FEEDERS: 3-#2 & 1-#8 CU. TO BE RUN BY THE DISTRICT EITHER UNDERGROUND OR OVERHEAD, SEE SITE ELEC. PLAN.													

NOTE:
FIRE ALARM DEDICATED CIRCUIT SHALL BE INDENTIFIED WITH A RED MARKED DISCONNECT WITH LOCK-ON CAPABILITY NFPA 72 4.4.1.4.2.1

LOAD PANEL CALCULATIONS



SIZE OF CONDUCTORS SHALL COMPLY W/CEC.
BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL & METAL BUILDING FRAME (CEC).
IN ADDITION TO THE DETAIL SHOWN ABOVE, BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10' INTO THE SOIL IF AVAILABLE (CEC).
ELECTRICAL BOND MODULES TOGETHER W/#8 CU @ MODLINE. BY MANUFACTURER. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS (CEC) AS REQUIRED. GROUNDING DETAIL PER DSA IR E-1.
INSPECTOR TO WITNESS GROUNDING TEST.

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

FIRE ALARM SYSTEM

1. THE FIRE ALARM SYSTEM SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE, & CA. FIRE CODE, AND 2010 NFPA 72.
2. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTINGS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY DSA.
3. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING AGENCY.
4. JUCTION BOXES- GALVINIZED SHEET METAL, SQUARE OR RECTANGULAR WITH BLANK COVERS. LOCATE ONE BOX AT REAR OF BUILDING NEAR MAIN ELECTRICAL PANEL AT +18" ABOVE FINISH FLOOR FOR FUTURE CONNECTION.
5. COVERS- INSTALL GASKETED, METAL, WATERPROOF, FINISH COVERS AT EXTERIOR LOCATIONS. INSTALL FINISH COVERS AT INTERIOR LOCATIONS.
6. THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALL, TESTED, AND MAINTAINED IN ACCORDANCE WITH THE STATE FIRE MARSHAL REGULATIONS (CBC 907.2.3) AND THE 2010 EDITION OF NFPA 72.
7. THE LOCATION OF AUTOMATIC DETECTORS, MANUAL STATIONS AND OTHER FIRE ALARM EQUIPMENT AND DEVICES, AS SHOWN ON PLAN, ARE FOR REFERENCE ONLY AND DO NOT CONTITUTE SHOP DRAWINGS WICH ARE REQUIRED FOR REVIEW AND APPROVAL
8. ALARM-INDICATING DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL OCCUPANTS SHALL CAUSE A LEVEL OF AUDIBILITY OF NOT LESS THAN 15 dBA ABOVE THE AVERAGE AMBIENT NOISE LEVELS OR 5dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF 60 SECONDS WHICH-EVER IS GREATER, MEASURED 5' ABOVE THE FLOOR. AMBIENT NOISE LEVELS MEANS THE LEVEL WICH CAN NORMALLY BE EXPECTED WHEN THE FACILITY, BUILDING, ROOM, OR AREA IS FUCTIONING UNDER NORMAL OPERATING OR WORKING CONDITIONS (NFPA 72, SEC. 7.4.2)
9. THE ALARM SYSTEM SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED. FLASHING VISUAL WARNINGS SHALL HAVE A FLASH RATE NOT EXCEEDING TWO FLASHES PER SECOND (2 HZ) NOR BE LESS THAN ONE FLASH EVERY SECOND (1 HZ). STROBE SIGNALING DEVICES FOR THE HEARING IMPAIRED SHALL BE STATE FIRE MARSHAL APPROVED AND LISTED (NFPA 72, SEC. 7.5)
10. AUTOMATIC FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AS AMENDED BY STATE FIRE MARSHAL. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUJS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BY ARRANGED BY OWNER.
IF TESTING RESULTS DETERMINE FIRE ALARM AUDIBILITY DOES NOT MEET 10db OVER AMBIENT NOISE LEVELS, ADDITIONAL FIRE ALARM SIGNALING DEVICES MAY BE REQUIRED BY TYHE ENFORCING AGENCY PER [CBC].

GENERAL NOTES

1. GROUNDING ELECTRODE CONDUCTOR SIZED PER CEC.
2. PROVIDE BONDS TO BLDG. STEEL & PANEL (#8 CU)
3. PANEL TO LISTED FOR USE AS SERVICE EQUIPMENT.

FIXTURE NOTES:

1. ALL FLUORESCENT LIGHT FIXTURES SHALL HAVE ENERGY SAVING LAMPS AND BALLASTS.
2. LUMINATES/BALLASTS SHALL BE CERTIFIED PER CALIFORNIA BUILDING CODE, TITLE 24.
3. FLUORESCENT LIGHT FIXTURE TYPE "A" SHALL BE CONTROLLED TO PROVIDE TWO LEVELS OF LIGHTING. SWITCH (SA) SHALL CONTROL THE TWO OUTER LAMPS AND SWITCH (SB) SHALL CONTROL THE TWO INNER LAMPS.

ELECTRICAL

1. ELECTRICAL SERVICE DROP AND CONNECTIONS SUPPLIED BY OTHERS.
2. MANUFACTURER TO PROVIDE STUB-OUT FROM BACK OF ELECTRICAL PANEL THROUGH THE EXTERIOR WALL OR TO BELOW FLOOR FOR RECEIVING EITHER UNDERGROUND OR OVERHEAD SERVICE & FITTING FOR GROUNDING CABLE.
3. ELECTRICAL PANEL BOARD SHALL BE RECESS MOUNTED INSIDE THE BUILDING. SIZED TO ACCOMMODATE ALL CONNECTED LOADS INCLUDING SPACES AS SHOWN. OVERCURRENT PROTECTIVE DEVICES IN THE PANEL BOARDS HAVE ADEQUATE SHORT CIRCUIT INTERRUPTING CAPACITY. ALL BUSES INCLUDING BUS SHALL BE COPPER OR ALUMINUM.
4. 2X4 FLOURESCENT FIXTURES SHALL BE STEEL FRAME, LENS SHALL BE HINGED AND LOCKED IN PLACE BY TWO LOCKING DEVICES. THE LENS DIFFUSERS SHALL BE KHS, INC. #KSH-12, CAROLITE, INC. #C-12 OR PLASKOLITE, INC. #PL21A. MINIMUM LENS THICKNESS SHALL BE .125 INCH.
5. FLOURESCENT BALLAST SHALL BE ENERGY SAVER WHILE MAINTAINING FULL LIGHT OUTPUT, CLASS "P" EQUIPPED WITH THERMAL PROTECTORS, GUARANTEED AGAINST FAILURE FOR (2) YEARS AND BE REPLACED FROM INSIDE THE FIXTURE.
6. CLOCK – 12" DIAL CLOCK ON CLOCK OUTLET.
   A) CLOCK SHALL BE GENERAL ELECTRIC MODEL 2912 129V 60 CYCLE
   B) CLOCK OUTLET SHALL BE BRYANT #2828 OR EQUAL WITH SEPERABLE HANGING CLIP & APP'D RECEPT.

THE H.V.A.C. UNIT FEEDER CIRCUIT – PANEL CIRCUIT BREAKER, FEEDER WIRE, UNIT DISCONNECT AND FUSES (WHERE USED) – IS TO BE COORDINATED WITH THE NAME PLATE DATA AT THE TIME OF MANUFACTURE. H.V.A.C. UNITS HAVING KVA RATINGS LARGER THAN THAT INDICATED ON THIS PANEL SCHEDULE WILL NOT BE ALLOWED TO BE INSTALLED ON THIS BUILDING. IF 60 DEGREES C. WIRE IS TO BE USED IN THIS INSTALLATION, CALCULATIONS DEMONSTRATING AMPACITY BE PROVIDED ON THE DRAWING.

1 GENERAL NOTES

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

PRE-CHECKED SET NAME
24' x 40' THRU 120' x 40' RELOCATABLE BUILDINGS

SITE SPECIFIC PROJECT NAME
AMS 24' x 40' STOCKPILE
(50) 24' x 40" RELOCATABLE BUILDINGS

SHEET TITLE
ELECTRICAL NOTES & DETAILS

MANUFACTURER PROFESSIONAL OF RECORD ON PC
LICENSED ARCHITECT No. C12631 Ren. 3.31.13 STATE OF CALIFORNIA

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
02 114530
AC MT FLS SS
DATE 3-9-16

PROJECT SPECIFIC STATE AGENCY APPROVAL
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
02 115061
AC FLS SS
DATE

ORIGINAL PC STATE AGENCY APPROVAL
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
PC 02-112210
AC FLS SS
DATE 2/17/12

PRE-CHECK (PC) DOCUMENT - CODE: 2010 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

REVISIONS
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4

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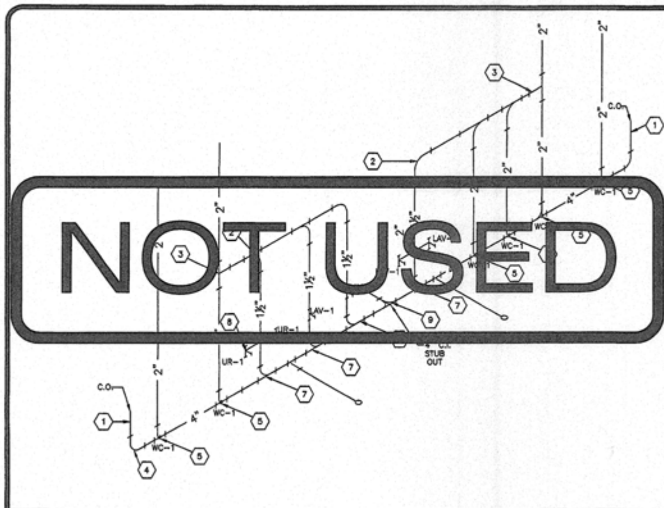
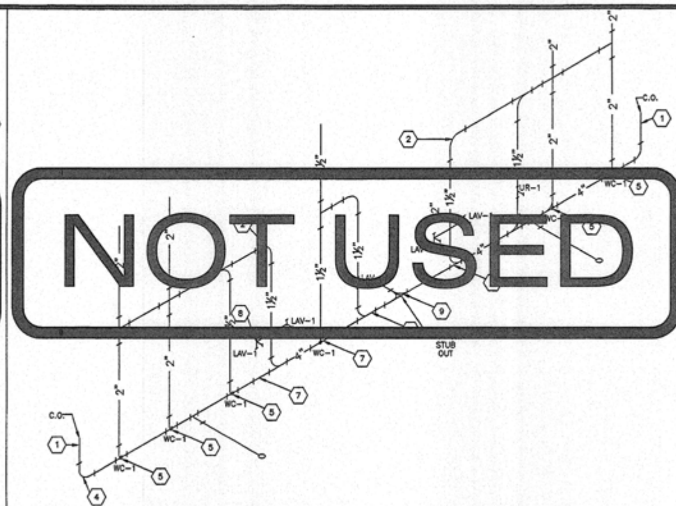
SCALE: AS NOTED
DATE:

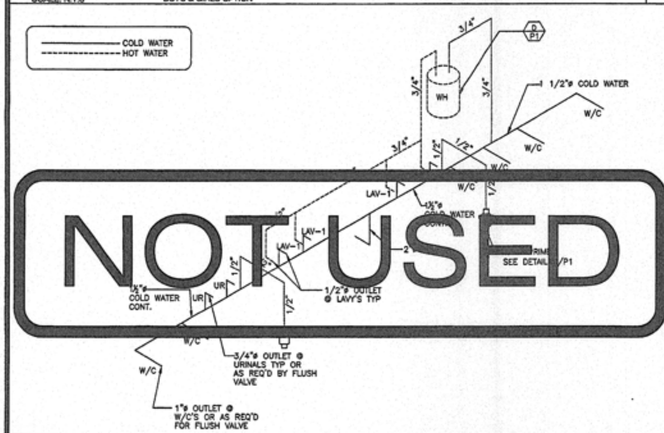
SHEET NUMBER
E2



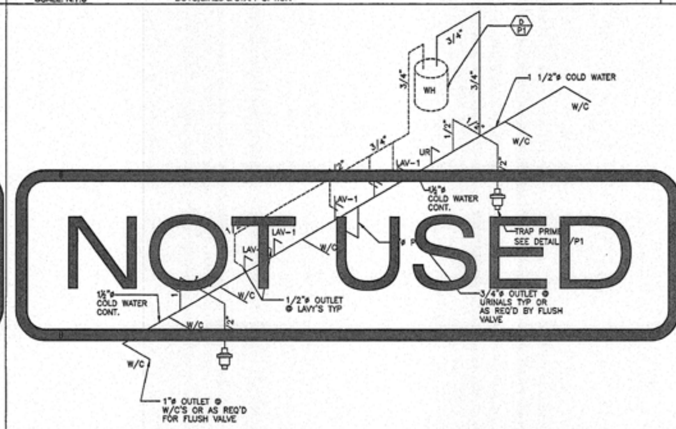
WASTE ISOMETRIC A
SCALE: N.T.S BOYS & GIRLS OPTION



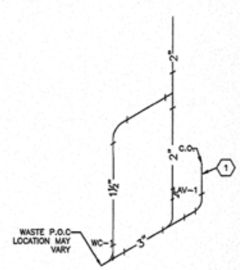
WASTE ISOMETRIC A1
SCALE: N.T.S BOYS,GIRLS & STAFF OPTION



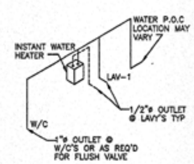
WATER SUPPLY ISOMETRIC B
SCALE: N.T.S BOYS & GIRLS OPTION



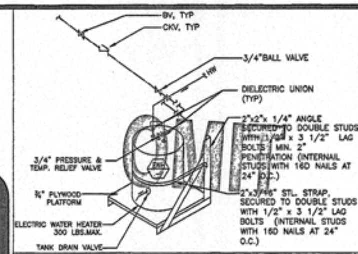
WATER SUPPLY ISOMETRIC B1
SCALE: N.T.S BOYS,GIRLS & STAFF OPTION



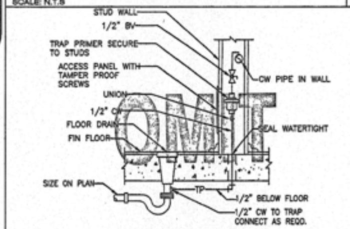
WASTE ISOMETRIC C
SCALE: N.T.S SINGLE TOILET OPTION



WATER SUPPLY ISOMETRIC C1
SCALE: N.T.S SINGLE TOILET OPTION

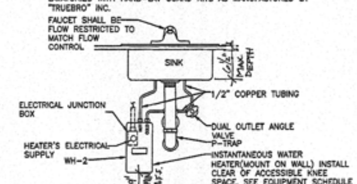


WATER HEATER SUPPORT DETAIL D
SCALE: N.T.S



TRAP PRIMER DETAIL E
SCALE: N.T.S

NOTE:
INSULATE HOT WATER SUPPLY AND DRAIN PIPING AT ACCESSIBLE LAVATORIES WITH HAND-LAV GUARD KITS AS MANUFACTURED BY "TRUEBRO" INC.



INSTANT WATER HEATER DETAIL F
SCALE: N.T.S

1 4" CLEAN OUT
2 VENT 90
3 VENT CROSS
4 4" QUARTER BEND
5 SMITH#0600 CARRIER
6 2" SANITARY TAP TEE
7 4x4x2 COMBINATION WYE 1/8 BEND
8 2x2x1 1/2 SANITARY TEE
9 4" DOUBLE COMBINATION
10 2"x18" LONG CU AIR CHAMBER
11 1" CW STUB @ WATER CLOSETS
12 3/4" CW STUB @ URINALS
13 1/2 CW STUB @ LAVATORIES

PIPE FITTING CALLOUTS (#) G
SCALE: N.T.S

1. DWV PIPING SHALL BE ABS PLASTIC
2. COLD WATER SUPPLY SHALL BE TYPE L COPPER
3. DWV PIPING:
MIN SLOPE 1/4" PER FOOT
MAY SLOPE 4" CI @ 1/8" PER FOOT
VENTS SHALL TERMINATE NOT LESS THAN 10 FEET FROM OR AT LEAST 3 FT. ABOVE ANY WINDOW, DOOR, AIR INTAKE OR VENT SHAFT, NOR LESS THAN 3FT. IN EVERY DIRECTION FROM ANY LOT LINE; ALLEY AND STREET EXCEPTED; EXTEND 6" ABOVE THE ROOF
4. SEE DETAIL 10/M2.1 FOR GAS PIPING AND SHUT OFF VALVE

SHEET NOTES H
SCALE: N.T.S

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PRE-CHECKED SET NAME
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RELOCATABLE BUILDINGS

SITE SPECIFIC PROJECT NAME
AMS 24' x 40' STOCKPILE
(50) 24' x 40" RELOCATABLE BUILDINGS

SHEET TITLE
ISOMETRIC PLANS & DETAILS

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
No. C12691
Ren. 3-31-13
STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV OF THE STATE ARCHITECT
02 114386
AC FLS SS
DATE 3-9-16

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV OF THE STATE ARCHITECT
02 113561
AC FLS SS
DATE 11/25/14

ORIGINAL PC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 02-112210
AC FLS SS
DATE 2/17/12

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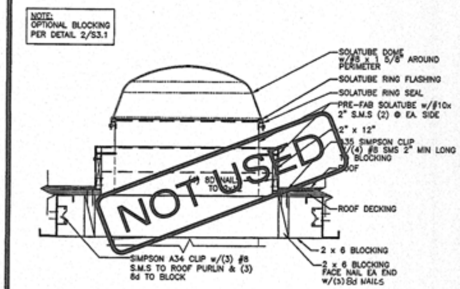
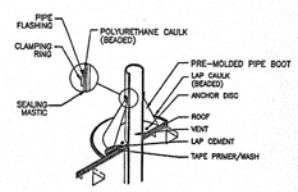
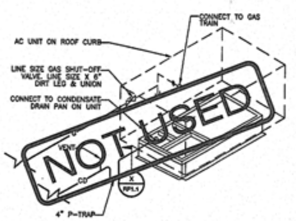


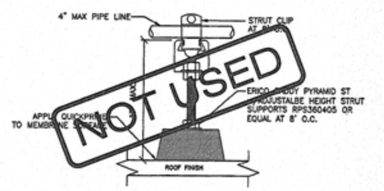
SOLATUBE DETAIL 1
SCALE: N.T.S



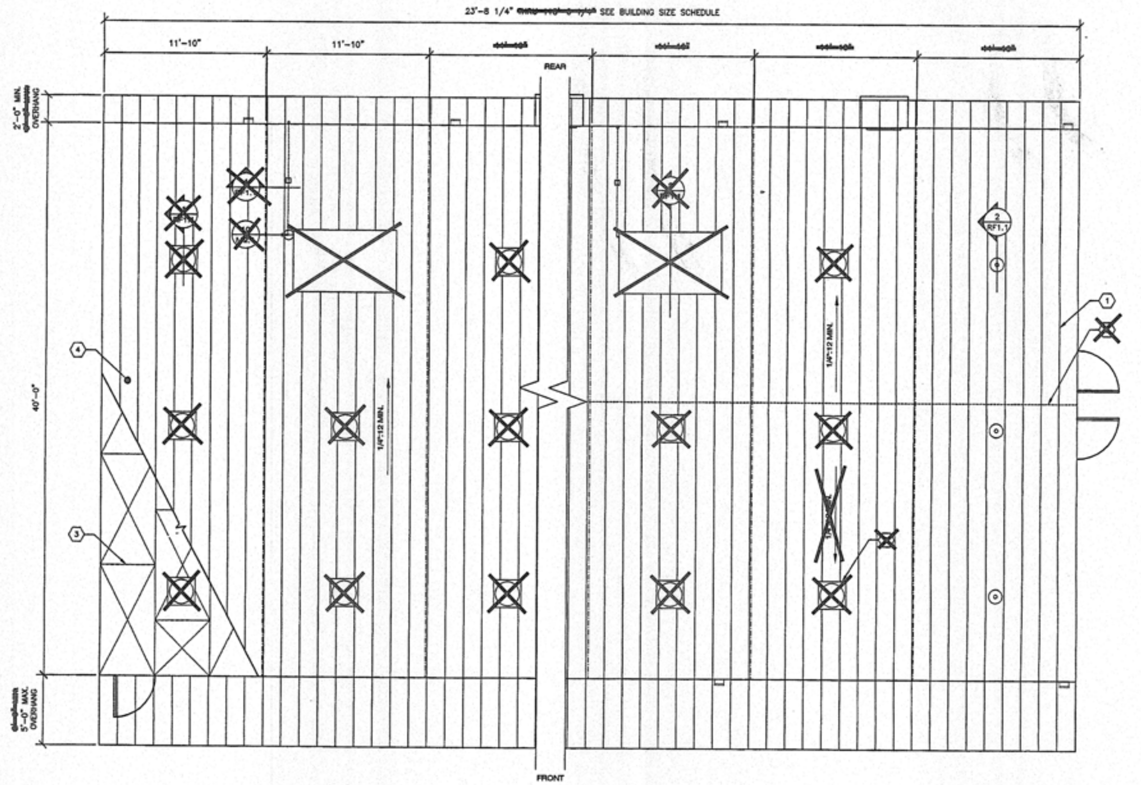
VENT THRU ROOF PENETRATION DETAIL 2
SCALE: N.T.S



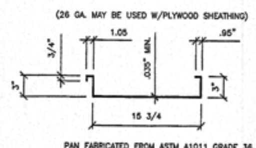
HVAC UNIT PIPING 3
SCALE: N.T.S



CONDENSATE/GAS PIPE SUPPORT AT ROOF DETAIL 4
SCALE: N.T.S



TYPICAL ROOF PLAN A
SCALE: 1/4"=1'-0"



PAN FABRICATED FROM ASTM A1011 GRADE 36, HOT ROLLED SHEETS. PAN TO BE GIVEN A RUST INHIBITIVE COATING.

ROOF PAN PROFILE 5
SCALE: N.T.S

BUILDING	# OF DRAINS		SIZE OF DRAIN
	MONO	DUAL	
☒ 24' x 40'	2	4	4x4
☐ 36' x 40'	2	4	4x4
☐ 48' x 40'	2	4	4x4
☐ 60' x 40'	3	6	4x4
☐ 72' x 40'	3	6	4x4
☐ 84' x 40'	4	8	4x4
☐ 96' x 40'	4	8	4x4
☐ 108' x 40'	5	10	4x4
☐ 120' x 40'	5	10	4x4

BUILDING DRAIN SCHEDULE 6

1. 20 GA. ROOF PAN ALTERNATE 26 GA.
2. ~~[illegible]~~
3. SHEATHING PER SHEET S3 & S3A
4. MONO SLOPE
5. ~~[illegible]~~

NOTE:
REFER TO M1.1 FOR MECHANICAL OPTIONS.
REFER TO SHEETS S3, S3.1 & S3A FOR ROOF DETAILS @ MODLINES CONDITIONS.

SHEET NOTES

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AMS 24' x 40' STOCKPILE
(50) 24' x 40" RELOCATABLE BUILDINGS

SHEET TITLE

ROOF PANEL PLAN (MONO/~~DUAL~~ SLOPE) OPTION

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT No. C12631 STATE OF CALIFORNIA

IDENTIFICATION STAMP DIV OF THE STATE ARCHITECT
02 114380

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV OF THE STATE ARCHITECT
02 113681
11/25/14

ORIGINAL PC STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
PC 02-112210
DATE 2/19/12

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RF1.1