PALOMAR COLLEGE®
Learning for Success

PALOMAR COLLEGE

NEW STORAGE BUILDINGS

1140 W. MISSION RD., SAN MARCOS, CA 92069

20. ☐ The intent of these drawings and specifications is that the work of the alteration, rehabilitation or reconstruction is to be in accordance with Title 24, CCR. Should any existing conditions such as deterioration or non-complying construction be discovered which is not covered by the contract documents wherein the finished work will not comply with Title 24, CCR, a construction change document (CCD), or a separate set of plans and specifications, detailing and specifying the required work shall be submitted to and approved by DSA before proceeding with the work. (Section 4-317(c), Part 1, Title 24, CCR)

ARCHITECT
HMC ARCHITECTS
3546 CONCOURS STREET
ONTARIO, CALIFORNIA 91764
PHONE (909) 989-9979
FAX (909) 483-1400

G0.1	TITLE SHEET
G1.1	CAMPUS SITE PLAN
G1.2	FIRE ACCESS SITE PLAN
TOTAL: 3	

CIVIL
SNIPES-DYE ASSOCIATES
8348 CENTER DRIVE, SUITE G
LA MESA, CA 91942
PHONE (619)-697-9234
FAX (619)-460-2033

C1.0	TITLE SHEET, NOTES AND LEGENDS
C1.1	DETAIL SHEET
C1.2	DETAIL SHEET
C2.0	EXISTING CONDITIONS AND DEMO PLAN
C3.0	GRADING AND UTILITIES PLAN
C3.1	GRADING AND UTILITIES PLAN
C3.2	RETAINING WALL PROFILE
C4.0	EROSION CONTROL PLAN
TOTAL: 8	

ARCHITECT
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A0.1	CODE ANALYSIS
A0.2	EXITING ANALYSIS
A1.1	OVERALL SITE PLAN
A1.2	PATH OF TRAVEL
A1.3	ENLARGED SITE PLAN
A2.0	BUILDING 7 - DEMO & REMODEL FLOOR PLANS AND ELEVATIONS
A2.1	STORAGE BUILDING 1 - PLANS, ELEVATIONS, AND SECTIONS
A2.2	STORAGE BUILDING 2 - PLANS, ELEVATIONS AND SECTIONS
A2.3	FABRICATION BUILDING 3 - PLANS, ELEVATIONS AND SECTIONS
A3.1	STORAGE BUILDING 1 - INTERIOR ELEVATIONS
A3.2	STORAGE BUILDING 2 - INTERIOR ELEVATIONS
A3.3	FABRICATION BUILDING 3 - INTERIOR ELEVATIONS
A4.1	BLDGS 1, 2 & 3 - SCHEDULES
A10.01	SITE & FENCE DETAILS
A10.11	WALL DETAILS
A10.21	DOOR DETAILS
A10.31	ROOF DETAILS
A10.81	SIGNAGE & MISCELLANEOUS DETAILS
TOTAL: 18	

STRUCTURAL
SAIFUL BOUQUET STRUCUTRAL ENGINEERS
2020 CAMINO DEL RIO NORTH, SUITE 305
SAN DIEGO, CA 92108
PHONE (619)-630-9199
FAX (000)-000-0000

S0.1	GENERAL NOTES
S0.2	GENERAL NOTES
S0.3	GENERAL NOTES
S0.4	GENERAL NOTES
S0.5	GENERAL NOTES, ABBREVIATIONS AND SHEET LIST
S0.6	GENERAL NOTES
S1.1	TYPICAL CONCRETE DETAILS
S1.2	TYPICAL CONCRETE DETAILS
S1.3	TYPICAL STEEL DETAILS
S1.4	TYPICAL STEEL DETAILS
S1.5	TYPICAL EXTERIOR METAL STUD DETAILS
S2.1	STORAGE BUILDING 1 - FOUNDATION AND ROOF FRAMING PLAN
S2.2	STORAGE BUILDING 2 - FOUNDATION AND ROOF FRAMING PLAN
S2.3	STORAGE BUILDING 3 - FOUNDATION AND ROOF FRAMING PLAN
S3.1	DETAILS AND SCHEDULES
S3.2	DETAILS
S4.1	MOMENT FRAME DETAILS
S5.1	ELEVATION
SMOD	PERSPECTIVE VIEW
TOTAL: 19	

ELECTRICAL
JOHNSON CONSULTING ENGINEERS, INC.
12875 BROOKPRINTER PLACE, SUITE 300
POWAY, CA 92064
PHONE (858)-679-4030
FAX (858)-513-0559

E1.0	TITLE SHEET
E1.1	SITE PLAN
E2.0.0	TITLE 24
E2.0.1	TITLE 24
E2.0.2	TITLE 24
E2.0.3	TITLE 24
E2.0.4	TITLE 24
E2.1	BLDG. 1, 2 & 3 FLOOR PLANS LIGHTING
E3.1	BLDG. 1, 2 & 3 FLOOR PLANS POWER
E5.1	BLDG. 1, 2 & 3 FLOOR PLANS FIRE ALARM
E5.2	FIRE ALARM SCHEDULE & RISER
E7.1	POWER ONE LINE DIAGRAM
E7.2	ONE LINE DIAGRAM DETAILS
E9.1	PANEL SCHEDULES
TOTAL: 14	

PLUMBING
MA ENGINEERS
5160 CAROLL CANYON RD, SUITE 20,
SAN DIEGO, CA 92121
PHONE (858)-200-0030
FAX (858)-200-0037

P1.1	PLUMBING OVERALL SITE PLAN
P2.3	PLUMBING FABRICATION BUILDING 3 FLOOR AND ROOF PLANS
P4.1	PLUMBING GENERAL NOTES, LEGEND AND SCHEDULES
P10.01	PLUMBING DETAILS
TOTAL: 4	

SHEETS GRAND TOTAL: 66

ARCHITECTURAL ABBREVIATIONS

Ø	DIAMETER OR ROUND
+/-	PLUS/MINUS
#	POUND OR NUMBER
%	PERCENT
@	AT
°	DEGREE
℄	CENTER LINE
∠	ANGLE
℄	PROPERTY LINE
AB	ANCHOR BOLT
ABS	ABSOLUTE
AC	ASPHALTIC CONCRETE
ACC	ACCESSIBLE/WORK STATION
ACOUS	ACOUSTICAL
ADJ	ADJACENT
AFF	ABOVE FINISH FLOOR
ALUM	ALUMINIUM
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ARCH	ARCHITECTURAL
BD	BOARD
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BTWN	BETWEEN
C	CHANNEL
CER	CERAMIC
CF	CUBIC FEET
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED, OWNER INSTALLED
CJ	CONTROL JOINT
CLF	CHAINLINK FENCE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CONT	CONTINUOUS
CORR	CORRIDOR
CR	CLASSROOM
CTSK	COUNTER SUNK
CTC	CENTER TO CENTER
d	PENNY
DBL	DOUBLE
DEL	DELETE
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DL	DOOR LOUVER
DN	DOWN
DP	DISABLED PERSON ACCESSIBLE
DS	DOWNSPOUT
DWG	DRAWING
EA	EACH
EJ	EXPANSION JOINT
ELEV	ELEVATION
ELEC	ELECTRICAL
EMT	ELECTRICAL METAL TUBING
ENCL	ENCLOSURE
ENGR	ENGINEER
EOS	EDGE OF SLAB
EQ	EQUAL
EQPT	EQUIPMENT
EW	EACH WAY
(E)	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FA	FIRE ALARM
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER W/CABINET
FF	FINISH FLOOR
FG	FINISH GRADE
FH	FIRE HYDRANT
FHC	FIRE HOSE W/ CABINET
FHWS	FLAT HEAD WOOD SCREW
FL	FLOOR
FO	FACE OF
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FS	FINISH SURFACE
FT	FOOT OF FEET
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GB	GYPSUM BOARD
GFRC	GLASS FIBER REINFORCED CONCRETE
GYP	GYPSUM
HB	HOSE BIB
HDWE	HARDWARE
HM	HOLLOW METAL
HOR	HORIZONTAL
HR	HOUR
HVAC	HEATING VENTILATION AIR
ID	INSIDE DIAMETER
IN	INCH OR INCHES
INT	INTERIOR
INV	INVERT
JBOX	JUNCTION BOX
JAN	JANITOR CLOSET
LAV	LAVATORY
LB(S)	POUND(S)
MAX	MAXIMUM
MB	MACHINE BOLT
MDF	MEDIUM DENSITY FIBERBOARD
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTL	METAL
(N)	NEW
NIC	NOT IN CONTRACT
NO	NUMBER
NR	NON RATED
NTS	NOT TO SCALE
NTS	NOT TO SCALE
OI	OVER
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER-FURNISHED CONTRACTOR-INSTALLED
OFOI	OWNER-FURNISHED OWNER-INSTALLED
OH	OPPOSITE HAND
OTO	OUT TO OUT
PA	PUBLIC ADDRESS
PE	PAD ELEVATION
PERP	PERPENDICULAR
PH	PANIC HARDWARE
PL	PLATE
PLAM	PLASTIC LAMINATE
PLUMB	PLUMBING
PLYWD	PLYWOOD
PM	PARTITION MOUNTED
POC	POINT OF CONNECTION
PR	PAIR
PREP	PREPARE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
R	RISER, RADIUS
RD	ROOF DRAIN
REC	RECESSED
REF	REFERENCE
REQ	REQUIRED
RM	ROOM
RWL	RAIN WATER LEADER
RO	ROUGH OPENING
SCHED	SCHEDULE
SECT	SECTION
SF	SQUARE FEET
SHT	SHEET
SIM	SIMILAR
SM	SURFACE MOUNTED
SMS	SHEET METAL SCREW
SOV	SHUT OFF VALVE
SPEC	SPECIFICATION
SST	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL
T&B	TOP AND BOTTOM
TEMP	TEMPORARY
TO	TOP OF
TOC	TOP OF CURB
TOD	TOP OF DRAIN
TOP	TOP OF PARAPET
TOPL	TOP OF PLATE
TOR	TOP OF RIDGE
TOS	TOP OF SLAB
TOW	TOP OF WALL
TST	TOP OF STEEL
TV	TELEVISION
TYP	TYPICAL
UC	UNEXCUT
UNO	UNLESS NOTED OTHERWISE
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
W	WIDE FLANGE
W/	WITH
W/O	WITHOUT
WD	WOOD
WH	WATER HEATER
WI	WOODWORK INSTITUTE
WIN	WINDOW
WP	WATERPROOF
WS	WOOD SCREW
WT	WEIGHT
WWF	WELDED WIRE FABRIC
x	BY
YD	YARD

NOTE:
OTHER ABBREVIATIONS USED ON THESE DRAWINGS ARE CONSIDERED STANDARDS IN THE BUILDING INDUSTRY. CONTACT ARCHITECT FOR NECESSARY CLARIFICATION.

GENERAL NOTES

1. CONSTRUCTION DOCUMENTS DESCRIBE THE PRODUCTS, SYSTEMS, QUANTITIES, CONFIGURATION, AND PERFORMANCE SPECIFICATIONS THAT DELIVER THE OVERALL DESIGN INTENT OF THE PROJECT.
2. THE CONSTRUCTION DOCUMENT DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY BOTH.
3. PERFORMANCE BY THE CONSTRUCTION TEAM SHALL BE CONSISTENT WITH THE CONSTRUCTION DRAWINGS AND SPECIFICATIONS AS NECESSARY TO DELIVER THE INDICATED RESULTS OF THE DESIGN INTENT.
4. VERIFY ALL DIMENSIONS, LOCATIONS OF EXISTING UTILITIES, AND CONDITIONS ON THE JOB SITE PRIOR TO THE START OF WORK OR PORTIONS OF THE WORK. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE ACTUAL FIELD CONDITIONS AND THE CONSTRUCTION DOCUMENTS. EXISTING CONDITIONS ARE INDICATED AS A RESULT OF FIELD OBSERVATIONS, INFORMATION SHOWN ON AVAILABLE DOCUMENTS AND FIELD CONDITIONS AT THE TIME OF PREPARATION.
5. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH ALL GOVERNING CODES, ORDINANCES, REGULATIONS AND LAWS.
6. THE DESIGN ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS AND SCAFFOLDING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
7. WHERE ANY CONFLICT OCCURS BETWEEN THE REQUIREMENTS OF LAWS, CODES, ORDINANCES, RULES AND REGULATIONS, THE MOST STRINGENT SHALL GOVERN.
8. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS OR DETAILS ON THE DRAWINGS.
9. DETAILS MARKED TYPICAL SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY NOTED OTHERWISE.
10. ENACT ALL MEASURES TO PROTECT AND SAFEGUARD ALL EXISTING ELEMENTS TO REMAIN FROM BEING DAMAGED. REPLACE OR REPAIR EXISTING ELEMENTS DAMAGED BY THE EXECUTION OF THIS CONTRACT TO EQUAL OR BETTER CONDITION.
11. PRIOR TO THE START OF WORK THE CONTRACTOR SHALL COORDINATE BETWEEN THE REQUIREMENTS OF ALL DISCIPLINES HEREIN AND BETWEEN THE REQUIREMENTS OF ALL DRAWINGS AND SPECIFICATIONS IN ORDER THAT ALL ITEMS SATISFACTORILY RELATE TO ONE ANOTHER. NOTIFY ARCHITECT IMMEDIATELY REGARDING ANY ITEMS THAT CANNOT BE COORDINATED.
12. CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING, CONDUIT, ETC. AND TO PREVENT HAZARD TO PERSONNEL AND/OR TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
13. CHANGES TO THE DIVISION OF THE STATE ARCHITECT-APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR CONSTRUCTION CHANGE DOCUMENTS FOR CHANGES TO THE STRUCTURAL, ACCESSIBILITY OR FIRE-LIFE SAFETY PORTIONS OF THE PROJECT. CHANGES SHALL BE SUBMITTED TO AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT PRIOR TO COMMENCEMENT OF THE WORK SHOWN THEREON, AS REQUIRED BY SECTION 4-338, PART 1.
14. CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE EXISTING OR NEW STRUCTURAL ELEMENTS SHALL NOT TO BE STARTED UNTIL THE DETAILS HAVE BEEN REVIEWED AND APPROVED BY THE ARCHITECT, AND STRUCTURAL ENGINEER OF RECORD AND DSA.
15. FIRE SAFETY DURING DEMOLITION AND CONSTRUCTION SHALL COMPLY WITH CFC CHAP 33.
16. DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL REQUIRED TEST AND INSPECTIONS FOR THE PROJECT
TITLE 24, CCR.
17. ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
18. A DSA CERTIFIED PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT (DSA) SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR;
CLASS 1
19. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

FOR ADDITIONAL GENERAL NOTES, REFER TO NOTE NO. 20 (ABOVE)

SCOPE OF WORK

WORK INCLUDED IN THE CONTRACT: CONSTRUCTION OF TWO STORAGE BUILDINGS AND ONE FABRICATION BUILDING ASSOCIATED SITE IMPROVEMENTS AND ADJACENT (E) BUILDING T - INFILL WALL OPENING AND T.A. CONNECTION TO BLDG T.

PROJECT DATA

PROJECT ADDRESS:
PALOMAR COLLEGE: NEW STORAGE BUILDINGS
1140 W. MISSION RD.,
SAN MARCOS, CA 92069

OCCUPANCY TYPE:
S-1(STORAGE BUILDINGS 1 AND 2)
F-2 (FABRICATING BUILDING 3)

CONSTRUCTION TYPE:
V-B

AUTOMATIC SPRINKLERS THROUGHOUT:
NO

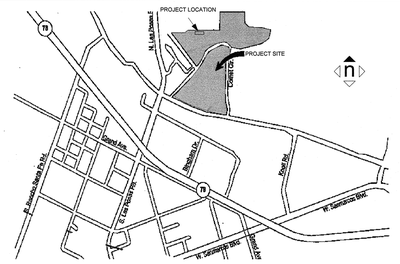
NO. OF STORIES:

SQUARE FOOTAGE:
3,060 SF - STORAGE BUILDING 1
2,280 SF - STORAGE BUILDING 2
3,060 SF - FABRICATING BUILDING 3

TOTAL: 8,400 SF

REFER TO A0.1 FOR CODE ANALYSIS PLAN

VICINITY MAP



LEGEND

NORTH ARROW
SHADED AREA INDICATES PLAN NORTH

ELEVATION CALLOUT
(TYPICAL FOR EXTERIOR AND INTERIOR)
SIM
/ A101
INDICATES A SIMILAR CONDITION
SHEET WHERE SECTION IS DRAWN
LOCATION ON SHEET

SECTION CALLOUT
A8.5
LOCATION ON SHEET
SHEET WHERE SECTION IS DRAWN

DETAIL CALLOUT
SIM
A10.5
INDICATES A SIMILAR CONDITION
LOCATION ON SHEET
SHEET WHERE SECTION IS DRAWN

CONTROL OR DATUM POINT
FIRST FLOOR
0'-0"
NAME OF ELEVATION (IF APPLICABLE)
ELEVATION ABOVE FINISHED FLOOR

GRID BUBBLE
0
GRID NUMBER

DOOR CALLOUT
A101
DOOR NUMBER

KEYNOTE
?
KEYNOTE NUMBER (SEE LEGEND ON SHEET)

ROOM EXITING INFORMATION
ROOM NAME
101
150 SF
OL
OLF
Exit
AREA (SQ FT)
OCCUPANT LOAD FACTOR (REFER TO TABLE 1004.1.1)
OCCUPANT LOAD (AREA DIVIDED BY LOAD FACTOR)
NUMBER OF EXITS REQUIRED (REFER TO TABLE 1015.1)

DOOR EXITING INFORMATION
A5
ACS
RW
PW
PANIC
NUMBER OF OCCUPANTS EXITING THRU DOOR OPENING
REQUIRED EXIT WIDTH (OCCUPANT LOAD X 0.2)
PROVIDED EXIT WIDTH (IN INCHES)
PANIC EXIT HARDWARE (WHERE OCCURS)

WALL TYPE CALLOUT
E-S8A-1
WALL TYPE
# INDICATES FIRE RATING IN HOURS (IF APPLIES)
LETTER INDICATES FINISH
# INDICATES CORE WIDTH IN INCHES
LETTER INDICATES CORE TYPE (S=STUD; C=CONC)
E = EXTERIOR

INTERIOR FINISH CALLOUT
A#F
MATERIAL FINISH TYPE

APPLICABLE CODES CBC 2013

LIST OF 2013 CALIFORNIA CODE OF REGULATIONS (C.C.R.):

PART 1	2013 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, PART1, TITLE 24 C.C.R. (THE 2013 CAC, CHAPTER 10 GOES INTO EFFECT JULY 1, 2014. THE 2010 CAC, CHAPTER 10 REMAINS IN EFFECT UNTIL JULY 1, 2014)
PART 2	2013 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. (2012 IBC VOLUMES 1-2 AND 2013 CALIFORNIA AMENDMENTS)
PART 3	2013 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (2011 NATIONAL ELECTRICAL CODE AND 2013 CALIFORNIA ADMENDMENTS)
PART 4	2013 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R. (2012 UNIFORM MECHANICAL CODE AND 2013 CALIFORNIA AMENDMENTS)
PART 5	2013 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. (2012 UNIFORM PLUMBING CODE AND 2013 CALIFORNIA AMENDMENTS)
PART 6	2013 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
PART 7	*CURRENTLY VACANT*
PART 8	2013 CALIFORNIA HISTORICAL BUILDING CODE, TITLE 24 C.C.R.
PART 9	2013 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. (2012 INTERNATIONAL FIRE AND 2013 CALIFORNIA AMENDMENTS)
PART 10	2013 CALIFORNIA EXISTING BUILDING CODE, TITLE 24 C.C.R. (2012 INTERNATIONAL EXISTING BUILDING CODE OF ICC, WITH AMENDMENTS)
PART 11	2013 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN CODE), PART 11, TITLE 24 C.C.R. (PER "BSCBULLETIN-13-07", ONLY AFFECTED ENERGY PROVISIONS OF THE 2013 CALGREEN GO INTO EFFECT JULY 1, 2014)
PART 12	2013 CALIFORNIA REFERENCED STANDARDS CODE, TITLE 24 C.C.R.

PARTIAL LIST OF APPLICABLE STANDARDS:
ADDITIONAL NFPA APPLICABLE STANDARDS SHALL BE AS LISTED IN THE PROJECT SPECIFICATION SECTIONS OF THE PROJECT MANUAL.
2013 CALIFORNIA BUILDING CODE (FOR SFM) REFERENCED STANDARDS CHAPTER 35

NFPA 13	AUTOMATIC SPRINKLER SYSTEM (CALIFORNIA AMENDED)	2013 EDITION
NFPA 14	STANDPIPE SYSTEMS (CALIFORNIA AMENDED)	2013 EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2013 EDITION
NFPA 17A	WET CHEMICAL SYSTEMS	2013 EDITION
NFPA 20	STATIONARY PUMPS	2013 EDITION
NFPA 24	PRIVATE FIRE SERVICES MAINS (CALIFORNIA AMENDED)	2013 EDITION
NFPA 72	NATIONAL FIRE ALARM CODE (CALIFORNIA AMENDED) (NOTE: SEE UL STANDARD 1971 FOR "VISUAL DEVICES")	2013 EDITION
NFPA 80	FIRE DOOR AND OTHER OPENING PROTECTIVES	2013 EDITION
NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS	2006 EDITION
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CALIFORNIA AMENDED)	2012 EDITION

HMC Architects
3546 Concours Street / Ontario, CA 91764
T 909 989 9979 / www.hmcarchitects.com

STATEMENT OF GENERAL CONFORMANCE

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

(Application No. 04-115420 File No. 36-C1

☒ The drawings or sheets listed on the cover or index sheet
☐ The 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 meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me and
2. coordination with my plans and specifications and is acceptable for incorporation into the construction of this project.

The Statement of General Conformance "shall not be construed as relieving me of my rights duties, and responsibilities under Sections 17302 and 81134 of the Education Code and Sections 4-336, 4-341 and 4-344" of Title 24 Part 1, (Title 24, Part 1, Section 4-317 (b))

I find that ☒ All drawings or sheets listed on the cover or index sheet
☐ This drawing or page

☒ is in general conformance and
☒ has been coordinated

Signature

Architect or Engineer designated to be in general responsible charge.

Kenneth Salyer
Print Name

C-19082 — License Number — Expiration Date

☐ is in general conformance and
☐ has been coordinated

Signature — Date

Print Name

C19082 — License Number — Expiration Number

Consultant Seal

Agency Approval FILE NO.37-C1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 04-115420
ACS TR FLS TR SSS KB
DATE OCT 1 8 2017
FLS: TGurule SSS: KBar
ACS: R.Gree

Project Title

PALOMAR COLLEGE®
Learning for Success

PALOMAR COLLEGE
NEW STORAGE BUILDINGS
1140 W. MISSION RD.,
SAN MARCOS, CA 92069
(760) 744-1150

No.	Description	Date

Drawing Title:
TITLE SHEET

Architect's Seal
LICENSED ARCHITECT KENNETH SALYER NO. C-19082 REN. 11-30-17 STATE OF CALIFORNIA

Designed:	DS	Project No.	3443001-302
Drawn:	VH,GS	Scale:	As indicated
QAQC	KS	Drawing No.	G0.1
Date:	10/18/17		

C:\Revit Local Files\3443001-A15_Central_ljauregui.rvt

10/18/2017 9:44:02 AM

PLEASE RECYCLE

DSA APPROVAL

A1 / A1.2 **PATH OF TRAVEL**

A1 / A0.1 **CODE ANALYSIS**

A1 / A1.1 **SITE PLAN**

(N) STORAGE/ FABRICATION BLDGS
DSA A#04-115420

KEYNOTES

NO.	NOTE - DETAIL

NOTES

(E) PATH OF TRAVEL

(N) PATH OF TRAVEL: REFER TO A1.2

Design Professional in General Responsible Charge Statement: The POT identified in these construction documents is compliant with the current applicable California Building Code accessibility provision for **path of travel requirements for alterations, additions and structural repairs.** As part of the design of this project, the POT was examined and any elements, components or portions of the POT that were determined to be noncompliant 1) have been identified and 2) the corrective work necessary to bring details, drawings and specifications incorporated into these construction documents. Any noncompliant elements, components or portions of the POT that will not be corrected by this project based on valuation threshold limitations or a finding of unreasonable hardship are so indicated in these construction documents.

During construction, if POT items within the scope of the project represented as code compliant are found to be nonconforming beyond reasonable construction tolerances, they shall be brought into compliance with the CBC as a part of this project by means of a construction change document.

DSA STATUS

A#	STATUS
04-109494	CERTIFIED
04-110223	CERTIFIED
04-110828	CERTIFIED
04-111466	CERTIFIED
04-113301	UNDER CONSTRUCTION

Consultant Seal

Agency Approval FILE NO.37-C1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 04-115420
ACS. RJ FLS. TH SSS KB
DATE OCT 1 8 2017

Project Title

PALOMAR COLLEGE®
Learning for Success

PALOMAR COLLEGE
NEW STORAGE BUILDINGS
1140 W. MISSION RD.,
SAN MARCOS, CA 92069
(760) 744-1150

No.	Description	Date

Drawing Title:
CAMPUS SITE PLAN

Architect's Seal

Designed:	DS	Project No.	3443001-302
Drawn:	VH,GS	Scale:	1" = 100'-0"
QAQC	KS	Drawing No.	G1.1
Date:	10/18/17		

CAMPUS SITE PLAN | A1 | 1" = 100'-0"

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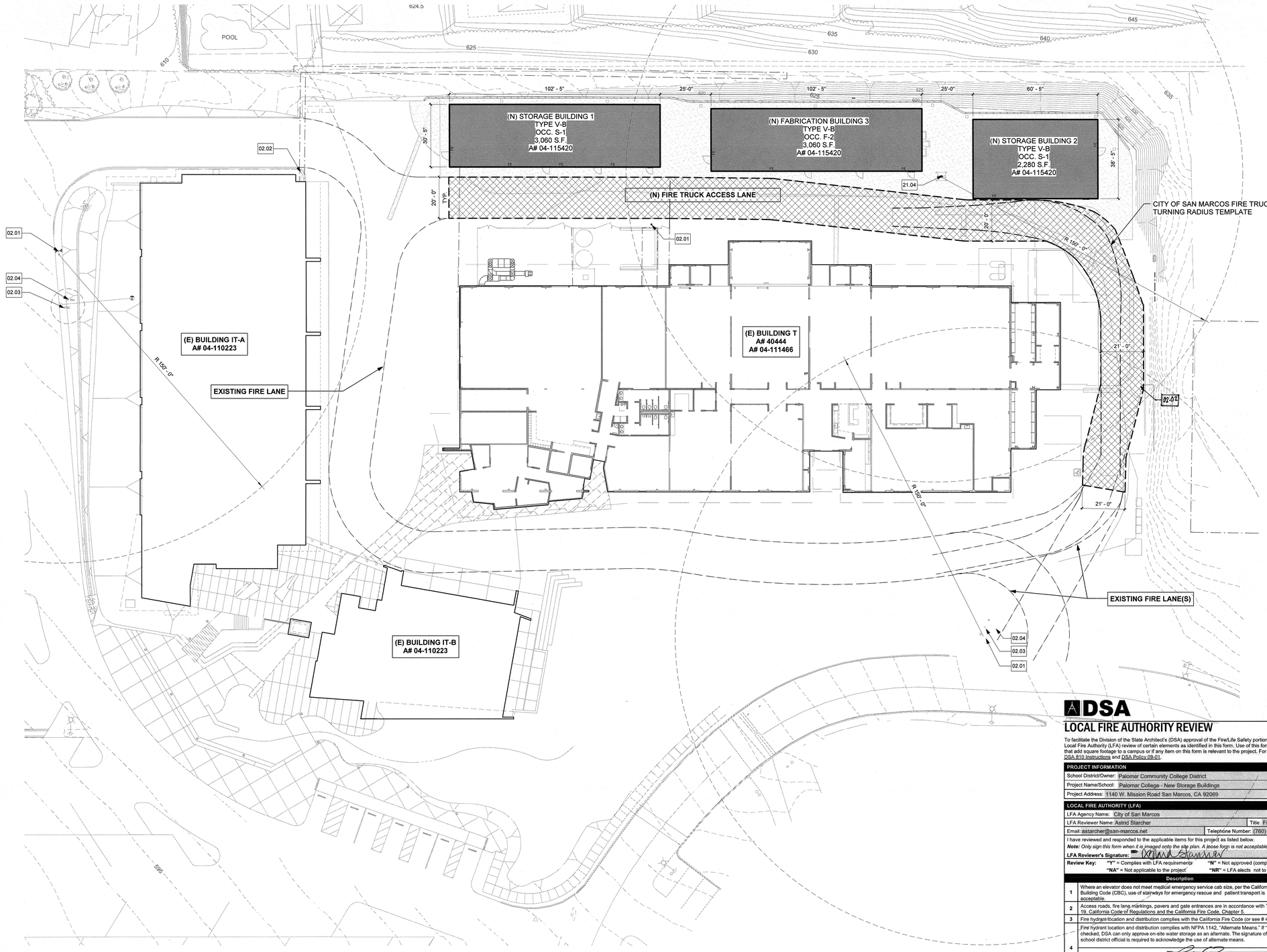
10/18/2017 9:44:04 AM

PLEASE RECYCLE

DSA APPROVAL



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: Palomar Community College District
Project Name/School: Palomar College - New Storage Buildings
Project Address: 1140 W. Mission Road San Marcos, CA 92069

LOCAL FIRE AUTHORITY (LFA)

LFA Agency Name: City of San Marcos
LFA Reviewer Name: Astrid Starcher — Title: Fire Inspector
Email: astarcher@san-marcos.net — Telephone Number: (760) 744-1050 x3408

I have reviewed and responded to the applicable items for this project as listed below.
***Note:** Only sign this form when it is imaged only the site plan. A loose copy is not acceptable to DSA.*
LFA Reviewer's Signature: Astrid Starcher Date: 9.19.17

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.				X
	Signature of School District Official: _____ **Date:** 9/27/17				
	Print the School District Official's Name: Chris Miller				
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): 1. Hydrants must be equipped with (2) 4-inch and (1) 2 1/2 inch port. 2. Hydrants must be capable of providing 1,500 gpn for two hours.				

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

FIRE ACCESS SITE PLAN — A1 — 1" = 20'-0"

HMC Architects
3546 Concours Street / Ontario, CA 91764
T 909 989 9979 / www.hmcarchitects.com

KEYNOTES

NO.	NOTE - DETAIL
02.01	(E) FIRE HYDRANT
02.02	(N) KNOX BOX
02.03	(E) FDC
02.04	(E) PIV
21.04	FIRE HYDRANT

LEGEND

- (E) FIRE TRUCK ACCESS LANE
- (N) FIRE TRUCK ACCESS LANE (PER LOCAL FIRE AUTHORITY APPROVAL)
- (N) STORAGE BLDGS

NOTES

Consultant Seal

Agency Approval — FILE NO.37-C1
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 04-115420
ACS FA FLS FB SSS KB
DATE OCT 1 0 2017

Project Title

PALOMAR COLLEGE
NEW STORAGE BUILDINGS
1140 W. MISSION RD.,
SAN MARCOS, CA 92069
(760) 744-1150

No.	Description	Date

Drawing Title:
FIRE ACCESS SITE PLAN

Architect's Seal — LICENSED ARCHITECT KENNETH SALTER NO. C-19082 REN. 11-30-17 STATE OF CALIFORNIA

Designed:	DS	Project No.	3443001-302
Drawn:	VH,GS	Scale:	1" = 20'-0"
QAQC	KS	Drawing No.	G1.2
Date:	09/27/17		

DSA APPROVAL

GENERAL NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY HORIZONTAL AND VERTICAL ALIGNMENT OF ALL EXISTING AND PROPOSED IMPROVEMENTS TO BE MET BY WORK TO BE DONE PRIOR TO CONSTRUCTION. IN THE EVENT THAT THE ALIGNMENT IS IN CONFLICT WITH THE WORK TO BE DONE, CONTRACTOR SHALL STOP WORK IMMEDIATELY AND NOTIFY THE CONSTRUCTION MANAGER OF THE CONFLICT.
2. THE LOCATION OF EXISTING UNDERGROUND FACILITIES ARE INDICATED ON THE PLANS AS A RESULT OF A SEARCH OF THE AVAILABLE RECORDS. LOCATIONS HAVE NOT BEEN FIELD VERIFIED. CONTRACTOR IS DIRECTED TO REQUEST UTILITY MARK OUT AND TO EXCAVATE AND VERIFY LOCATIONS PRIOR TO EXCAVATION. ENGINEER OF WORK DOES NOT ASSUME RESPONSIBILITY FOR THE ACCURACY OF ANY UTILITY LOCATIONS INDICATED ON THE PLANS.
3. ENGINEER OF WORK IS NOT RESPONSIBLE FOR JOB SAFETY.
4. CONTRACTOR SHALL SUBMIT A WORK PLAN TO CAMPUS FOR REVIEW & APPROVAL. WORK PLAN SHALL INCLUDE, BUT NOT LIMITED TO, WORK HOURS, LIMIT OF WORK, ADA PATH OF TRAVEL, FENCE LOCATIONS, SIGNAGE.
5. CONTRACTOR SHALL MAINTAIN SAFE AND THROUGH PASSAGE ACCESS TO ALL BUILDINGS & ADA PATH OF TRAVEL AT ALL TIMES. CAMPUS SHALL BE NOTIFIED 14 DAYS PRIOR TO ANY ACCESS CLOSURE DUE TO CONSTRUCTION ACTIVITIES.
6. CONTRACTOR SHALL PROVIDE CONSTRUCTION SURVEY STAKING AS A PART OF CONTRACT.
7. STOCKPILING OF MATERIALS OUTSIDE OF LIMIT OF WORK SHALL NOT BE ALLOWED.
8. THE 2016 EDITION OF THE CALIFORNIA BUILDING CODE (CBC) ADOPTS THE 2015 INTERNATIONAL BUILDING CODE (IBC).

GRADING NOTES

1. GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE UPDATED GEOTECHNICAL REPORT & GEOTECHNICAL CONSULTANT FOR THIS PROJECT.
2. SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (CURRENT EDITION), THESE PLANS AND THE PROJECT SPECIFICATIONS.
3. THE MINIMUM GRADIENT FOR GRADED SWALES SHALL BE 1%.
4. THE MINIMUM GRADIENT OF FINISHED GRADE AWAY FROM STRUCTURES SHALL BE 1.5%, UNLESS OTHERWISE NOTED ON PLANS.
5. FINISH GRADE SHALL BE DETERMINED AS THE ELEVATION OF ANY LANDSCAPE MATERIAL PLACED ON GRADE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERCUT GRADE TO ALLOW FOR PLACEMENT OF LANDSCAPE MATERIALS.
6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HANDLE ANY EXPORT OF EXCESS MATERIAL FOR THE SITE. RESPONSIBILITY SHALL INCLUDE ALL PERMITS AND APPROVALS BY THE APPROPRIATE AGENCIES. THE OWNER AND ENGINEER OF WORK WILL NOT ASSUME ANY RESPONSIBILITY FOR THE REMOVAL, TRANSPORTATION OR PLACEMENT OF EXCESS MATERIAL.
7. FINISH GRADE SHALL BE INSPECTED BY THE ENGINEER OF WORK AND VERIFIED THAT THE ACTUAL GRADING IS REPRESENTATIVE OF THE PROPOSED GRADING AND THAT THE MINIMUM SLOPE GRADIENTS EXIST.
8. THE MAXIMUM SLOPE GRADIENT SHALL BE 2:1 (HORIZONTAL TO VERTICAL).
9. CONCRETE CURBS AND GUTTERS SHALL BE INSTALLED IN ACCORDANCE WITH THE REFERENCED DETAIL AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC) (CURRENT EDITION).
10. SAW CUTTING OF EXISTING IMPROVEMENTS SHALL PROVIDE A CLEAN VERTICAL EDGE VOID OF CHIPPING AND SHALL BE MADE AT THE NEAREST JOINT.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR THE TIMELY REMOVAL OF ALL SPOIL MATERIALS CREATED BY THE DEMOLITION OF EXISTING IMPROVEMENTS.
12. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF EXISTING IMPROVEMENTS. CONTRACTOR SHALL, IN ADVANCE OF CONSTRUCTING IMPROVEMENTS, NOTIFY THE ENGINEER OF WORK OF ANY CONFLICTS BETWEEN THE PROPOSED DESIGN AND EXISTING IMPROVEMENTS. THE ENGINEER OF WORK SHALL REVIEW THE CONFLICTS AND MAKE RECOMMENDATIONS FOR RESOLUTION IN A TIMELY MANNER.
13. SIDEWALK FINISHES AND JOINT DETAILS SHALL MATCH EXISTING ADJACENT FINISHES FLUSH.

EROSION AND SEDIMENT CONTROL NOTES

TEMPORARY EROSION/SEDIMENT CONTROL, PRIOR TO COMPLETION OF FINAL IMPROVEMENTS, SHALL BE PERFORMED BY THE CONTRACTOR OR QUALIFIED PERSON AS INDICATED BELOW:

1. ALL REQUIREMENTS OF THE COUNTY OF SAN DIEGO "LAND DEVELOPMENT MANUAL, STORM WATER STANDARDS" MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED GRADING/IMPROVEMENTS CONSISTENT WITH THE APPROVED STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND/OR WATER POLLUTION CONTROL PLAN (WPCP) FOR CONSTRUCTION LEVEL BMP'S AND FOR PERMANENT POST CONSTRUCTION TREATMENT CONTROL PERMANENT BMP'S, THE WATER QUALITY TECHNICAL REPORT (WQTR) IF APPLICABLE.
2. FOR STORM DRAIN INLETS, PROVIDE A GRAVEL BAG SILT BASIN IMMEDIATELY UPSTREAM OF INLET AS INDICATED ON DETAILS.
3. FOR INLETS LOCATED AT SUMPS ADJACENT TO TOP OF SLOPES, THE CONTRACTOR SHALL ENSURE THAT WATER DRAINING TO THE SUMP IS DIRECTED INTO THE INLET AND THAT A MINIMUM OF 1.00' FREEBOARD EXISTS AND IS MAINTAINED ABOVE THE TOP OF THE INLET. IF FREEBOARD IS NOT PROVIDED BY GRADING SHOWN ON THESE PLANS, THE CONTRACTOR SHALL PROVIDE IT VIA TEMPORARY MEASURES, I.E. GRAVEL BAGS OR DIKES.
4. THE CONTRACTOR OR QUALIFIED PERSON SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUD ON ADJACENT STREET(S) AND STORM DRAIN SYSTEM DUE TO CONSTRUCTION ACTIVITY.
5. THE CONTRACTOR OR QUALIFIED PERSON SHALL CHECK AND MAINTAIN ALL LINED AND UNLINED DITCHES AFTER EACH RAINFALL.
6. THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL.
7. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
8. THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL DEVICES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER OR RESIDENT ENGINEER AFTER EACH RUN-OFF PRODUCING RAINFALL.
9. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION/SEDIMENT CONTROL MEASURES AS MAY BE REQUIRED BY THE RESIDENT ENGINEER DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES, WHICH MAY ARISE.
10. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
11. ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON. ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE DONE TO THE SATISFACTION OF THE RESIDENT ENGINEER.
12. GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
13. ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT.
14. THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEARING AND GRUBBING FOR THE AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED PERSON CAN PROVIDE EROSION/SEDIMENT CONTROL MEASURES.
15. THE CONTRACTOR SHALL ARRANGE FOR WEEKLY MEETINGS DURING OCTOBER 1ST TO APRIL 30TH FOR PROJECT TEAM (GENERAL CONTRACTOR, QUALIFIED PERSON, EROSION CONTROL SUBCONTRACTOR IF ANY, ENGINEER OF WORK, OWNER/DEVELOPER AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION/SEDIMENT CONTROL MEASURES AND OTHER RELATED CONSTRUCTION ACTIVITIES.

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TWO WORKING DAYS BEFORE YOU DIG

EROSION AND SEDIMENT CONTROL NOTES (CONT.)

16. CONTRACTOR SHALL PROTECT SPOIL AND MATERIAL STORAGE PILES FROM MOVEMENT OF SILT VIA WATER AND WIND EROSION.
17. UPON COMPLETION OF GRADING, CONTRACTOR SHALL STABILIZE AREA WITH LANDSCAPING OR HYDROSEED AND RELOCATE SILT FENCE TO THE PERIMETER OF THE WORK AREA.
18. CONTRACTOR TO INSTALL STABILIZED CONSTRUCTION ENTRANCE/EXIT AT POINT OF ACCESS TO CONSTRUCTION SITE TO REDUCE THE TRACKING OF MUD AND DIRT.
19. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EROSION CONTROL MEASURES & IMPLEMENTATION AS A PART OF EXISTING IMPROVEMENTS DAMAGED DURING CONSTRUCTION REPAIR.

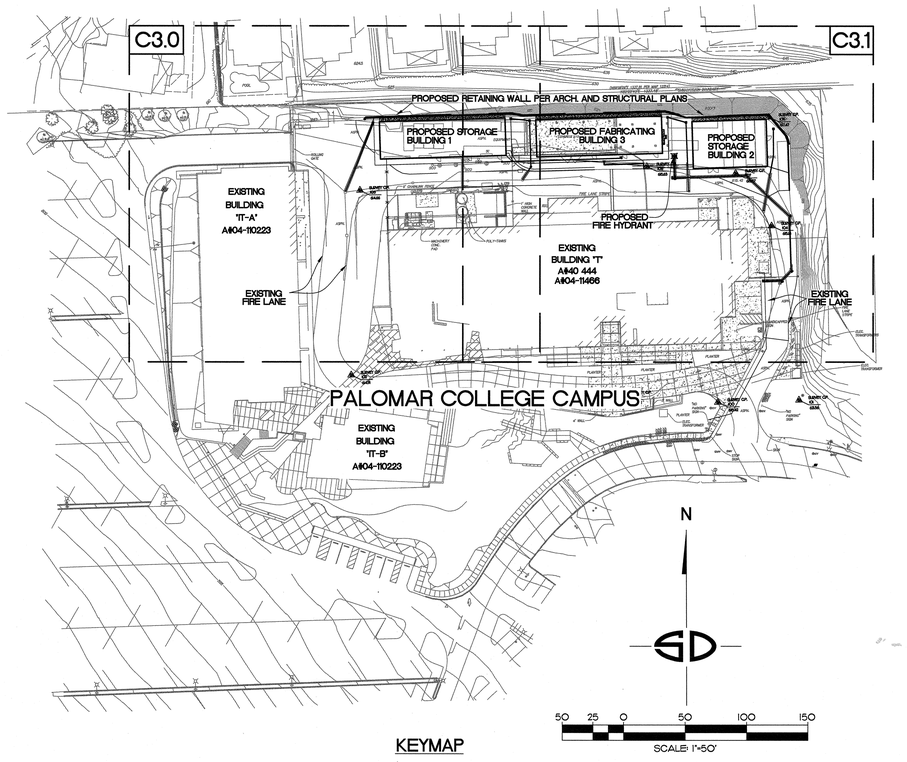
MINIMUM POST-CONSTRUCTION MAINTENANCE PLAN

AT THE COMPLETION OF THE WORK SHOWN, THE FOLLOWING PLAN SHALL BE FOLLOWED TO ENSURE WATER QUALITY CONTROL IS MAINTAINED FOR THE LIFE OF THE PROJECT:

1. STABILIZATION: ALL PLANTED SLOPES AND OTHER VEGETATED AREAS SHALL BE INSPECTED PRIOR TO OCTOBER 1 OF EACH YEAR AND AFTER MAJOR RAINFALL EVENTS (MORE THAN ½ INCH) AND REPAIRED AND REPLANTED AS NEEDED UNTIL A NOTICE OF TERMINATION (NOT) IS FILED.
2. STRUCTURAL PRACTICES: DESILTING BASINS, DIVERSION DITCHES, DOWNDRAINS, INLETS, OUTLET PROTECTION MEASURES, AND OTHER PERMANENT WATER QUALITY AND SEDIMENT AND EROSION CONTROLS SHALL BE INSPECTED PRIOR TO OCTOBER 1ST OF EACH YEAR AND AFTER MAJOR RAINFALL EVENTS (MORE THAN ½ INCH). REPAIRS AND REPLACEMENTS SHALL BE MADE AS NEEDED AND RECORDED IN THE MAINTENANCE LOG IN PERPETUITY.
3. OPERATION AND MAINTENANCE, FUNDING: POST-CONSTRUCTION MANAGEMENT MEASURES ARE THE RESPONSIBILITY OF THE DEVELOPER UNTIL THE TRANSFER OF RESPECTIVE SITES TO HOME BUILDERS, INDIVIDUAL OWNERS, HOMEOWNERS ASSOCIATIONS, SCHOOL DISTRICTS, OR LOCAL AGENCIES AND/OR GOVERNMENTS. AT THAT TIME, THE NEW OWNERS SHALL ASSUME RESPONSIBILITY FOR THEIR RESPECTIVE PORTIONS OF THE DEVELOPMENT.

PERMANENT POST-CONSTRUCTION BMP NOTES

1. OPERATION AND MAINTENANCE SHALL BE SECURED BY AN EXECUTED AND RECORDED STORM WATER MANAGEMENT AND DISCHARGE CONTROL MAINTENANCE AGREEMENT (SWMDCMA), OR ANOTHER MECHANISM APPROVED BY THE CITY ENGINEER, THAT ASSURES ALL PERMANENT BMP'S WILL BE MAINTAINED IN PERPETUITY, PER THE LAND DEVELOPMENT MANUAL, STORM WATER STANDARDS.
2. PERMANENT POST CONSTRUCTION BMP DEVICES SHOWN ON PLAN SHALL NOT BE MOVED OR MODIFIED WITHOUT THE APPROVAL OF THE CITY ENGINEER OR RESIDENT ENGINEER AND THE ENGINEER OF WORK.



KEYMAP

ABBREVIATIONS

A.C., ASPH	ASPHALT CONCRETE PAVEMENT
B.M.	BENCH MARK
BLDG.	BUILDING
CB	CATCH BASIN
℄	CENTERLINE
C.O.	CLEANOUT
CONC.	CONCRETE
COMP.	COMPACTION
C.S.F.M.	CALIFORNIA STATE FIRE MARSHALL
DEPT.	DEPARTMENT
DIA.	DIAMETER
(E), EXIST.	EXISTING
FF	FINISH FLOOR
FH	FIRE HYDRANT
FL	FLOW LINE
FT.	FOOT
G.V.	GATE VALVE
G	GUTTER
GB	GRADE BREAK
HDPE	HIGH DENSITY POLYETHYLENE
HP	HIGH POINT
IRR	IRRIGATION
LA	LANDSCAPE AREA
LP	LOW POINT
IE	INVERT ELEVATION
MAX.	MAXIMUM
MIN.	MINIMUM
MH	MANHOLE
NO.	NUMBER
OC	ON CENTER
P.A.	PEDESTRIAN ACCESS
P.O.T.	ADA COMPLIANT PATH OF TRAVEL
PSF	PER SQUARE FOOT
PSI	PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
R	RADIUS
RD	ROOF DRAIN
REL.	RELATIVE
S, SWR	SEWER
SMH	STEAM MANHOLE
S.F.	SQUARE FEET
SHT.	SHEET
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SDSU	SAN DIEGO STATE UNIVERSITY
SDR	STANDARD DIMENSION RATIO
STD	STANDARD
TC	TOP OF CURB
TG	TOP OF GRATE
TF	TOP OF FOOTING
TW	TOP OF WALL
VCP	VITRIFIED CLAY PIPE
W	WATER
WM	WATER METER
W/	WITH
&	AND

WORK TO BE DONE

THE WORK SHOWN IN THESE DRAWINGS SHALL BE DONE IN ACCORDANCE WITH THESE PLANS, THE PROJECT SPECIFICATIONS AND THE STANDARD DRAWINGS OF THE COUNTY OF SAN DIEGO, CURRENT EDITIONS.

STANDARD SPECIFICATIONS

STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (CURRENT EDITION) AND PROJECT SPECIFICATIONS.

STANDARD DRAWINGS

COUNTY OF SAN DIEGO STANDARD DRAWINGS (CURRENT EDITION) *

LEGEND

IMPROVEMENT	STD. DWG. *	SYMBOL
EXISTING CONTOUR		
EXISTING ELEVATION		x 48.50
PROPOSED ELEVATION		48.50
EXISTING STEAM		ST
EXISTING SEWER		S
EXISTING WATER MAIN		W
EXISTING FIRE HYDRANT		
EXISTING WATER VALVE		
EXISTING GAS LINE		G
EXISTING STORM DRAIN		SD
EXISTING TELECOM LINE		T
EXISTING ELECTRICAL LINE		E
A.C. PAVING	DETAIL 1 / C1.1	
A.C. OVERLAY	DETAIL 2 / C1.1	
CONCRETE WALK	DETAIL 9 / C1.1	
AC BERM	G-5, TYPE A / C1.2	
CONCRETE CURB	G-01 / C1.2	
SAWCUT		
PROPOSED FIRE HYDRANT	WF-01, WF-04, WV-01 / C1.2	
RETAINING WALL	PER STRUCTURAL PLANS	
TRENCH RESURFACING / PATCH	DETAILS SHEET C1.1	
DIRECTION OF DRAINAGE		
INSTALL CATCH BASIN	DETAILS SHEET C1.1	
INSTALL STORM DRAIN LINE		SD
INSTALL STORM DRAIN / SEWER CLEANOUT	DET. 6 / SHT. C1.1	
INSTALL WATER LINE		W
INSTALL SEWER LINE		S
INSTALL THRUST BLOCK	WT-01 / C1.2	
INSTALL WATER SERVICE		W
INSTALL GATE VALVE	WV-01 / C1.2	
INSTALL SEWER SERVICE		S
SURVEY CONTROL POINT		

* SEE COUNTY OF SAN DIEGO REGIONAL STANDARD DRAWINGS (SDRSD) ON SHEET C1.2

SHEET INDEX

SHEET NO.	DESCRIPTION
C1.0	TITLE/NOTES/LEGEND
C1.1-C1.2	DETAIL SHEETS
C2.0	EXISTING CONDITIONS AND DEMO PLAN
C3.0-C3.1	GRADING & UTILITIES PLAN
C3.2	RETAINING WALL PROFILE
C4.0	EROSION CONTROL PLAN

BENCH MARK

SEE SURVEY CONTROL POINTS TABLE IN SHEET C2.0

TOPOGRAPHIC SURVEY

SURVEY AND TOPOGRAPHIC DATA SHOWN ON THESE PLANS IS BASED ON FIELD SURVEY BY NASLAND DATED FEB. 24TH, 2015 AND COMPLEMENTARY FIELD SURVEY BY SNIPES-DYE ASSOCIATES DATED MARCH 2016.

HMC Architects
3546 Concours Street / Ontario, CA 91764
T 909 989 9979 / www.hmcarchitects.com

KEYNOTES

NOTES:

ENGINEER OF WORK
Snipes-Dye associates
civil engineers and land surveyors
8348 CENTER DRIVE, STE. G, LA MESA, CA 91942
TELEPHONE (619) 697-9254 FAX (619) 460-2033
12-7-17
MATTHEW P. KURTZ R.C.E. 79546
EXPIRES 09-30-18

SDA PROJECT NO. SM3071

Key Plan

Consultant Seal

REGISTERED PROFESSIONAL ENGINEER — MATTHEW P. KURTZ — No. 79546 Exp. 9-30-18 — CIVIL — STATE OF CALIFORNIA

Agency Approval FILE NO. 37-C1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 04-115420
ACS 31 FLS 112 SSS 169
DATE OCT 18 2017

Project Title

PALOMAR COLLEGE® Learning for Success

PALOMAR
NEW STORAGE BUILDINGS
1140 W. MISSION RD.,
SAN MARCOS, CA 92069
(760) 744-1150

No.	Description	Date

Drawing Title:

TITLE SHEET, NOTES AND LEGENDS

Architect's Seal

LICENSED ARCHITECT — KENNETH SALYER — NO. C-19082 — REN. 11-30-19 — STATE OF CALIFORNIA

Designed:	EC	Project No.	3443001-302
Drawn:	BMW	Scale:	AS NOTED
QAQC	MPK	Drawing No.	C1.0
Date:	10/18/2017		

DSA APPROVAL

PLEASE RECYCLE

SM3071 (C2)

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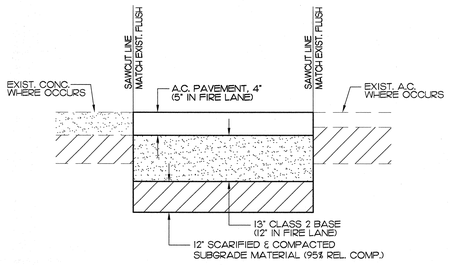
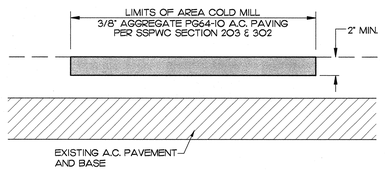
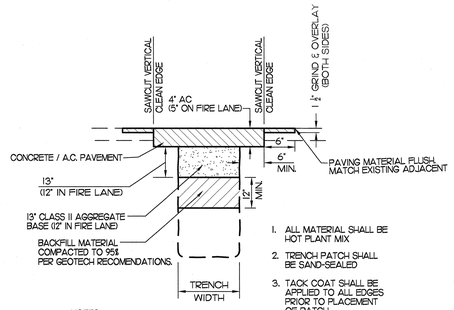


NOTES:
1. REFER TO GEOTECHNICAL REPORT FOR RECOMMENDATIONS
2. IF DISCREPANCIES BETWEEN PLAN DETAILS & GEOTECHNICAL ENGINEER RECOMMENDATIONS, THE GEOTECHNICAL ENGINEER RECOMMENDATIONS SHALL BE USED.
3. PAVEMENT DESIGN TO BE VERIFIED BY SOILS ENGINEER AFTER FINAL "R" VALUE FIELD TESTS.

1 / C1.1 **DETAIL: AC PAVEMENT**
NO SCALE

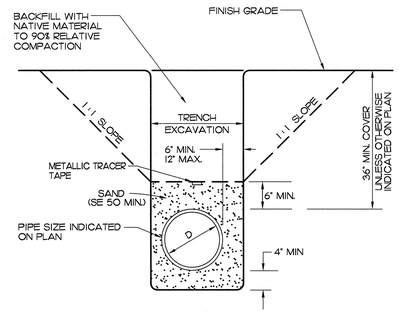


2 / C1.1 **A.C. PAVEMENT COLD MILL & OVERLAY**
NO SCALE

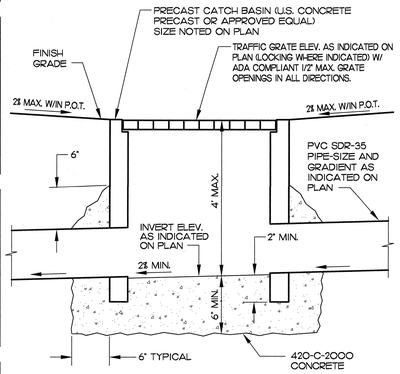


NOTES:
1. REFER TO GEOTECHNICAL REPORT FOR RECOMMENDATIONS
2. IF DISCREPANCIES BETWEEN PLAN DETAILS & GEOTECHNICAL ENGINEER RECOMMENDATIONS, THE GEOTECHNICAL ENGINEER RECOMMENDATIONS SHALL BE USED.
3. IF EXISTING PAVEMENT STRUCTURE IS THICKER, MATCH EXISTING AS A MINIMUM.

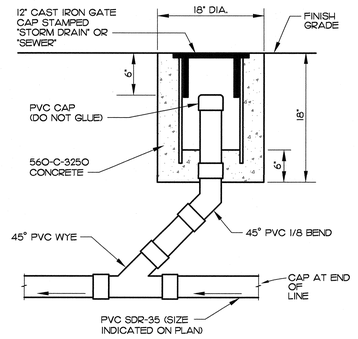
3 / C1.1 **TYPICAL PAVEMENT TRENCH PATCH**
NO SCALE



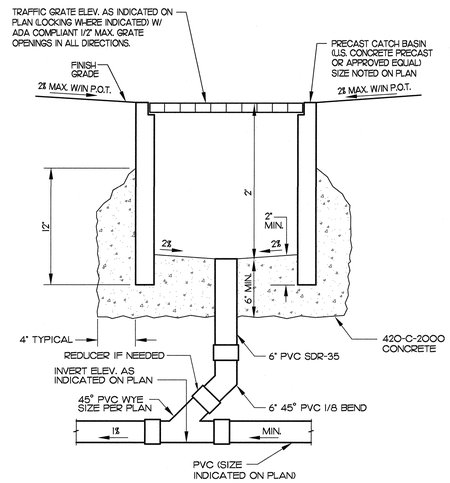
4 / C1.1 **WATERMAIN TRENCH BEDDING**
NO SCALE



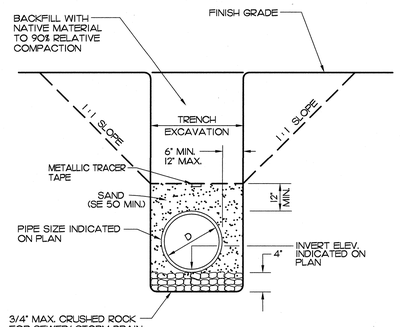
5 / C1.1 **SHALLOW CATCH BASIN**
NO SCALE



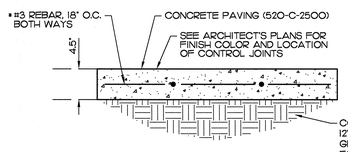
6 / C1.1 **STORM DRAIN AND SEWER CLEANOUT**
NO SCALE



7 / C1.1 **DEEP CATCH BASIN**
NO SCALE

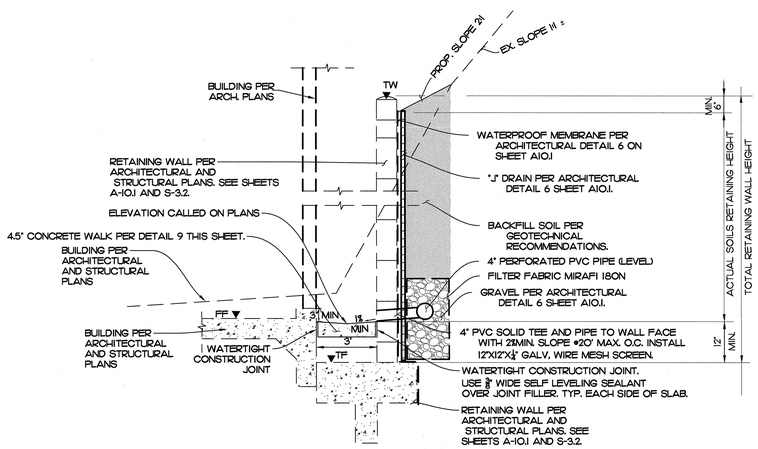


8 / C1.1 **STORM DRAIN AND SANITARY SEWER TRENCH BEDDING**
NO SCALE



NOTES:
1. REFER TO GEOTECHNICAL REPORT FOR RECOMMENDATIONS
2. IF DISCREPANCIES BETWEEN PLAN DETAILS & GEOTECHNICAL ENGINEER RECOMMENDATIONS, THE GEOTECHNICAL ENGINEER RECOMMENDATIONS SHALL BE USED.

9 / C1.1 **CONCRETE SIDEWALK**
NO SCALE



10 / C1.1 **SECTION A-A (TYPICAL)**
RETAINING WALL AND 3' CONCRETE WALK NO SCALE
SEE STRUCTURAL SHEET S-3.2 AND ARCHITECTURAL DETAIL 6 ON SHEEET A10.1.

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KEYNOTES

NOTES:

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Snipes-Dye associates
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8348 CENTER DRIVE, STE. G, LA MESA, CA 91942
TELEPHONE (619) 697-9234 FAX (619) 460-2033
10-17-17
MATTHEW P. KURTZ R.C.E. 79546
EXPIRES 09-30-18

SDA PROJECT NO. SM3071

Key Plan

Consultant Seal

REGISTERED PROFESSIONAL ENGINEER MATTHEW P. KURTZ No. 79546 Exp. 9-30-18 CIVIL STATE OF CALIFORNIA

Agency Approval FILE NO. 37-C1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 04-115420
ACS DSA FLS SSS KS
DATE OCT 18 2017

Project Title

PALOMAR COLLEGE® Learning for Success

PALOMAR
NEW STORAGE BUILDINGS
1140 W. MISSION RD.,
SAN MARCOS, CA 92069
(760) 744-1150

No.	Description	Date

Drawing Title:

DETAIL SHEET

Architect's Seal

LICENSED ARCHITECT KENNETH A. SALTER NO. C-19082 REN. 11-30-17 STATE OF CALIFORNIA

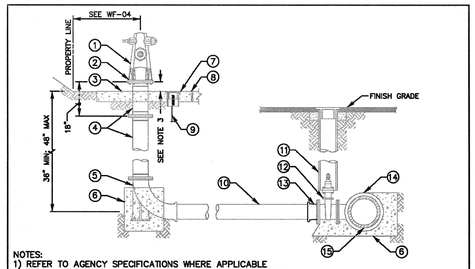
Designed:	EC	Project No.	3443001-302
Drawn:	BMW	Scale:	AS NOTED
QAQC	MPK	Drawing No.	C1.1
Date:	10/18/2017		

DSA APPROVAL

PLEASE RECYCLE

S:\SM\PCS\SM3071 Palomar College Storage Building\DWG\Grading Plans\C01.1.dwg
Plotted: Monday, October 16, 2017 4:26pm by kkunkel

SM3071 (C2)



NOTES:
1) REFER TO AGENCY SPECIFICATIONS WHERE APPLICABLE
2) THE NUMBER OF OUTLETS SHALL BE AS SHOWN ON PLANS
3) FIRE HYDRANT FLANGE SHALL BE 6" ± 1" ABOVE TOP OF CURB OR SPLASH PAD SEE PLANS FOR ELEVATION
4) LOCATE FIRE HYDRANT AS SHOWN ON WF-04
5) INSTALL WARNING/IDENTIFICATION TAPE AS SHOWN ON WP-01
6) FIRE HYDRANT FLANGE BOLTS SHALL BE BREAK AWAY BOLTS INSTALLED WITH NUTS ON TOP OF THE FLANGE. BOLT SHAFT SHALL BE FILLED WITH SILICONE SEALANT
7) CONNECTIONS TO STEEL MAINS WILL BE MADE IN ACCORDANCE WITH AGENCY'S SPECIFICATIONS
8) MATERIALS SHALL BE SELECTED FROM THE AGENCY'S APPROVED MATERIALS LIST

LEGEND ON PLANS

ITEM NO	SIZE AND DESCRIPTION	ITEM NO	SIZE AND DESCRIPTION
1	6" FIRE HYDRANT SEE NOTE 2	8	COLD JOINT STRIP
2	BREAK-AWAY BOLTS, SEE NOTE 6	9	TRACER WIRE (AS REQUIRED) PER WP-01
3	4" x 4" x 6" THICK CONCRETE SPLASH PAD	10	6" C-900 PVC PIPE
4	6" FLANGE DI HYDRANT EXTENSION SPOOL(S) WITH BREAK OFF GROOVES (MAXIMUM OF 2 SPOOLS)	11	GATE WELL WITH CAP SEE WV-01 OR WV-02
5	6" x 16" LONG RADIUS FLG x MJ/PO BURY ELL	12	6" FLG x MJ/PO/FLG RWGV
6	CONCRETE THRUST BLOCK SEE WT-01	13	6" FLG x MJ/PO ADAPTER (IF REQUIRED)
7	TRACER WIRE ACCESS PORT, 4" x 8" LONG SDR 35 SEWER PIPE W/ CAP (AS-REQUIRED)	14	SIZE x 6" MJ/PO/FLG x FLG TEE
		15	WATER MAIN

Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03
Replaced W-10		J. Tomasulo	10/04
Delete Metric	MR	B. KNOLL	03/11
Reviewed	MR	B. KNOLL	10/15

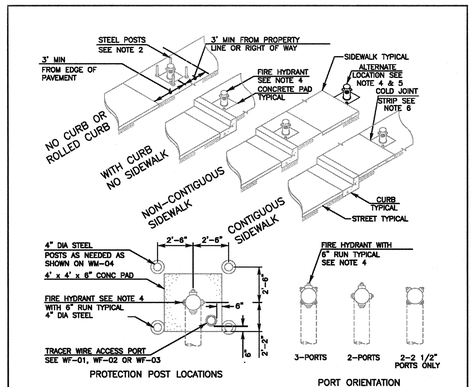
SAN DIEGO REGIONAL STANDARD DRAWING

6" FIRE HYDRANT INSTALLATION

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
Chairperson R.C.E. 19246 Date 12/11/2015

DRAWING NUMBER WF-01

SEE CONSTRUCTION NOTE 10 ON SHEETS C3.0 AND C3.1.



NOTES:
1) REFER TO AGENCY SPECIFICATIONS WHERE APPLICABLE
2) PROTECTION POSTS SHALL BE INSTALLED AS CALLED FOR ON THE PLANS OR AS DIRECTED BY THE ENGINEER PER WM-04
3) LOCATE FIRE HYDRANT AS SHOWN ABOVE OR AS DIRECTED BY THE ENGINEER
4) FIRE HYDRANTS SHALL BE INSTALLED WITH THE LARGEST PORT PERPENDICULAR TO THE STREET
5) AN EASEMENT MAY BE NEEDED DEPENDING ON LOCATION OF FIRE HYDRANT
6) IF THE CONCRETE SLAB IS TO BE INSTALLED ADJACENT TO A CONCRETE CURB OR SIDEWALK A COLD JOINT STRIP SHALL BE INSTALLED
7) MATERIALS SHALL BE SELECTED FROM THE AGENCY'S APPROVED MATERIALS LIST

LEGEND ON PLANS

Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03
Replaced W-10		J. Tomasulo	10/04
Delete Metric	MR	B. KNOLL	03/11
Reviewed	MR	B. KNOLL	10/15

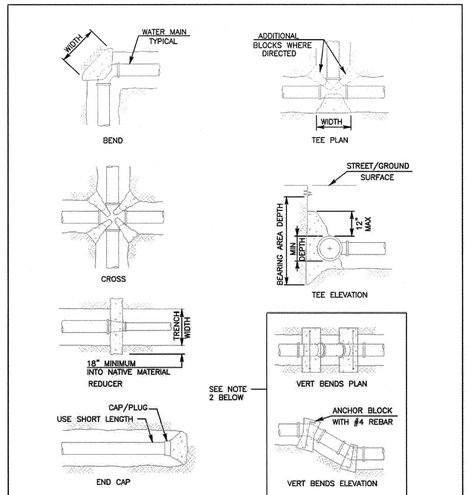
SAN DIEGO REGIONAL STANDARD DRAWING

FIRE HYDRANT LOCATIONS AND PORT ORIENTATION

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
Chairperson R.C.E. 19246 Date 12/11/2015

DRAWING NUMBER WF-04

SEE CONSTRUCTION NOTE 10 ON SHEETS C3.0 AND C3.1.



NOTES:
1) FOR ADDITIONAL THRUST BLOCKS, ANCHOR BLOCKS AND NOTES SEE WT-01 (2 OF 3) & (3 OF 3)
2) THE ANCHOR BLOCKS ON VERTICAL BENDS REQUIRE AGENCY APPROVAL

Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03
Repl. W-17, Relogo W-22		J. Tomasulo	10/04
Delete Metric	MR	B. KNOLL	03/11

SAN DIEGO REGIONAL STANDARD DRAWING

CONCRETE THRUST AND ANCHOR BLOCK INSTALLATIONS

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
Chairperson R.C.E. 19246 Date 7/26/2006

DRAWING NUMBER WT-01 (1 OF 3)

SEE CONSTRUCTION NOTE 15 AND 19 ON SHEETS C3.0 AND C3.1.

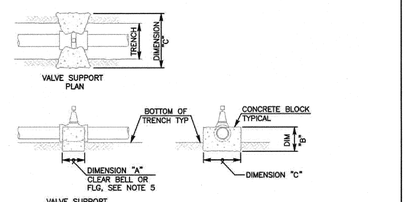
VALVE SUPPORT BLOCK

VALVE SIZE	DIMENSION "A"	DIMENSION "B"
4"	12"	12"
6"	12"	12"
8"	13"	14"
10"	14"	16"
12"	15"	18"

DIMENSION "C" = TRENCH WIDTH PLUS TWO TIMES THE PIPE DIAMETER

THRUST AND ANCHOR BLOCKS
MINIMUM BEARING AREA IN SQUARE FOOT SEE NOTE 2

MAIN SIZE	TEES	90° BEND	45° BEND	22½° BEND
4"	4	5	3	1.5
6"	8	10	5	2.5
8"	12	16	9	4.5
10"	17	24	13	6.5
12"	24	33	19	9.5



NOTES:
1) REFER TO AGENCY SPECIFICATIONS WHERE APPLICABLE
2) BEARING AREA BASED ON SOIL BEARING VALUE OF 1500 PSF AND 225 PSI LINE PRESSURE AND A MINIMUM OF 36" COVER
   FOR BEARING= 1000 PSF, 1.5 x AREA SHOWN
   FOR BEARING= 500 PSF, 3.0 x AREA SHOWN
3) DESIGN ENGINEER SHALL DETERMINE SIZES, REFER TO AGENCY SPECIFICATIONS FOR THRUST AND ANCHOR BLOCK SIZING
4) THRUST BLOCKS SHALL BE CENTERED ON THE FITTING SO THAT THE BEARING AREA IS EXACTLY OPPOSITE THE RESULTANT DIRECTION OF THRUST
5) CONCRETE SHALL BE PLACED SO THAT FITTINGS AND VALVES WILL BE ACCESSIBLE FOR REPAIR OR REPLACEMENT
6) ALL THRUST AND ANCHOR BLOCKS SHALL BE POURED AGAINST WETTED UNDISTURBED SOIL
7) FOR MINIMUM CONCRETE CURING TIME REFER TO AGENCY SPECIFICATIONS
8) FOR ADDITIONAL THRUST BLOCKS SEE WT-01 (1 OF 3) & (3 OF 3)

Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03
Repl. W-17, Relogo W-22		J. Tomasulo	10/04
Delete Metric	MR	B. KNOLL	03/11

SAN DIEGO REGIONAL STANDARD DRAWING

CONCRETE THRUST AND ANCHOR BLOCK INSTALLATIONS

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
Chairperson R.C.E. 19246 Date 7/26/2006

DRAWING NUMBER WT-01 (2 OF 3)

SEE CONSTRUCTION NOTE 15 AND 19 ON SHEETS C3.0 AND C3.1.

NOTES:
1) BEARING AREA "B" MUST BE EQUAL TO OR GREATER THAN THE AREA REQUIRED FOR A 90° ELBOW INSTALLATION
2) INSTALL SAND BAGS AROUND BUTTERFLY VALVE ACTUATOR TO ISOLATE IT FROM CONCRETE
3) BFV'S INSTALLED AT CROSSES OR TEES REQUIRE A FLANGED DUCTILE IRON SPOOL TO BE INSTALLED BETWEEN THE FITTING AND VALVE IN ACCORDANCE WITH THE AGENCY SPECIFICATIONS

Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03
Repl. W-17, Relogo W-22		J. Tomasulo	10/04
Delete Metric	MR	B. KNOLL	03/11

SAN DIEGO REGIONAL STANDARD DRAWING

CONCRETE THRUST AND ANCHOR BLOCK INSTALLATIONS

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
Chairperson R.C.E. 19246 Date 7/26/2006

DRAWING NUMBER WT-01 (3 OF 3)

SEE CONSTRUCTION NOTE 15 AND 19 ON SHEETS C3.0 AND C3.1.

NOTES:
1) REFER TO AGENCY SPECIFICATIONS WHERE APPLICABLE
2) VALVES DEEPER THAN 5' REQUIRE A VALVE STEM EXTENSION
3) EXTENSION STEMS SHALL NOT BE ATTACHED/BOLTED TO OPERATING NUT
4) GATE WELL AND CAP SHALL BE SET SO THAT NO MORE THAN TWO 1" ADJUSTMENT RINGS ARE USED
5) BFV OPERATORS TO BE LOCATED TO THE CURBLINE SIDE OF WATER MAIN
6) BFV'S INSTALLED AT CROSSES OR TEES REQUIRE A FLANGED DUCTILE IRON SPOOL TO BE INSTALLED BETWEEN THE FITTING AND VALVE IN ACCORDANCE WITH THE AGENCY'S SPECIFICATIONS
7) GATE WELLS AND CAPS SHALL BE IDENTIFIED AS DESCRIBED ON WV-03
8) FOR INLINE VALVE ANCHOR BLOCK INSTALLATION SEE WT-02
9) MATERIALS SHALL BE SELECTED FROM THE AGENCY'S APPROVED MATERIALS LIST

LEGEND ON PLANS

ITEM NO	SIZE AND DESCRIPTION	ITEM NO	SIZE AND DESCRIPTION
1	GATE WELL WITH CAP SEE NOTE 7	4	8" PVC CL 200, C-900 PIPE x REQUIRED LENGTH GATE WELL SEE NOTE 7
2	6" HIGH x 6" WIDE COMPACTED ASPHALT-CONCRETE RING	5	BUTTERFLY VALVE
3	VALVE STEM EXTENSION SEE NOTES 2 & 3	6	RESILIENT WEDGE GATE VALVE
		7	WATER MAIN

Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03
Repl. W-12A, Add W-12D		J. Tomasulo	10/04
Delete Metric	MR	B. KNOLL	03/11
Reviewed	MR	B. KNOLL	10/15

SAN DIEGO REGIONAL STANDARD DRAWING

GATE WELL CAP INSTALLATION, FOR VALVES 4" AND LARGER

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
Chairperson R.C.E. 19246 Date 12/11/2015

DRAWING NUMBER WV-01

SEE CONSTRUCTION NOTE 10 ON SHEETS C3.0 AND C3.1.

NOTES:
1. DIKES SHALL BE PLACED ON A 2" SECTION OF A.C. SURFACING, EXTENDING THROUGHOUT THE WIDTH OF THE DIKE.
2. PG-70-10 GRADE ASPHALT TO BE USED FOR ALL DIKES.
3. SHAPE AND COMPACT DIKES WITH AN EXTRUSION MACHINE OR OTHER EQUIPMENT CAPABLE OF SHAPING AND COMPACTING THE MATERIAL TO THE REQUIRED CROSS-SECTION.

APPROX. DIKE QUANTITIES	
TYPE	RECD PER LIN. FT.
A	0.0250 TON
B	0.0375 TON
C-6"	0.0375 TON
C-8"	0.0563 TON
C-9"	0.0702 TON
D	0.0062 TON
E	0.0407 TON
F	0.0823 TON

LEGEND ON PLANS

Revision	By	Approved	Date
ORIGINAL		KERCHEVAL	12/75
ADD METRIC		T. STANTON	03/03
REFORMATTED		T. STANTON	04/06
UPDATED	MR	MR/CV	11/11
REVIEWED	CV	CV	12/15

SAN DIEGO REGIONAL STANDARD DRAWING

DIKES - ASPHALT CONCRETE

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
Chairperson R.C.E. 19246 Date 12/11/2015

DRAWING NUMBER G-05

SEE CONSTRUCTION NOTE 2 ON SHEETS C3.0 AND C3.1.

NOTES:
1. CONCRETE SHALL BE 520-C-2500.
2. SEE STANDARD DRAWINGS G-9 AND G-10 FOR JOINT DETAILS.
3. SLOPE TOP OF CURB 2% MAX TOWARD GUTTER.

LEGEND ON PLANS

Revision	By	Approved	Date
ORIGINAL		KERCHEVAL	12/75
ADD METRIC		T. STANTON	03/03
REFORMATTED		T. STANTON	04/06
UPDATED	MR	MR/CV	11/11
UPDATED	CV	CV	12/15

SAN DIEGO REGIONAL STANDARD DRAWING

CURBS AND GUTTER - SEPARATE

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
Chairperson R.C.E. 19246 Date 12/11/2015

DRAWING NUMBER G-01

SEE CONSTRUCTION NOTE 4 ON SHEETS C3.0 AND C3.1.

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KEYNOTES

NOTES:

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civil engineers and land surveyors
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MATTHEW P. KURTZ R.C.E. 79546
EXPIRES 09-30-18

SDA PROJECT NO. SM3071

Key Plan

Consultant Seal

REGISTERED PROFESSIONAL ENGINEER — MATTHEW P. KURTZ — No. 79546 — Exp. 9-30-18 — CIVIL — STATE OF CALIFORNIA

Agency Approval FILE NO. 37-C1

IDENTIFICATION STAMP
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ACS PL FLS PL SSS KB
DATE OCT 18 2017

Project Title

PALOMAR COLLEGE® Learning for Success

PALOMAR
NEW STORAGE BUILDINGS
1140 W. MISSION RD.,
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(760) 744-1150

No.	Description	Date

Drawing Title:

DETAIL SHEET

Architect's Seal

LICENSED ARCHITECT — KENNETH SALTER — NO. C-19082 — REN. 11-30-17 — STATE OF CALIFORNIA

Designed:	EC	Project No.	3443001-302
Drawn:	BMW	Scale:	AS NOTED
QAQC	MPK	Drawing No.	C1.2
Date:	10/18/2017		

DSA APPROVAL

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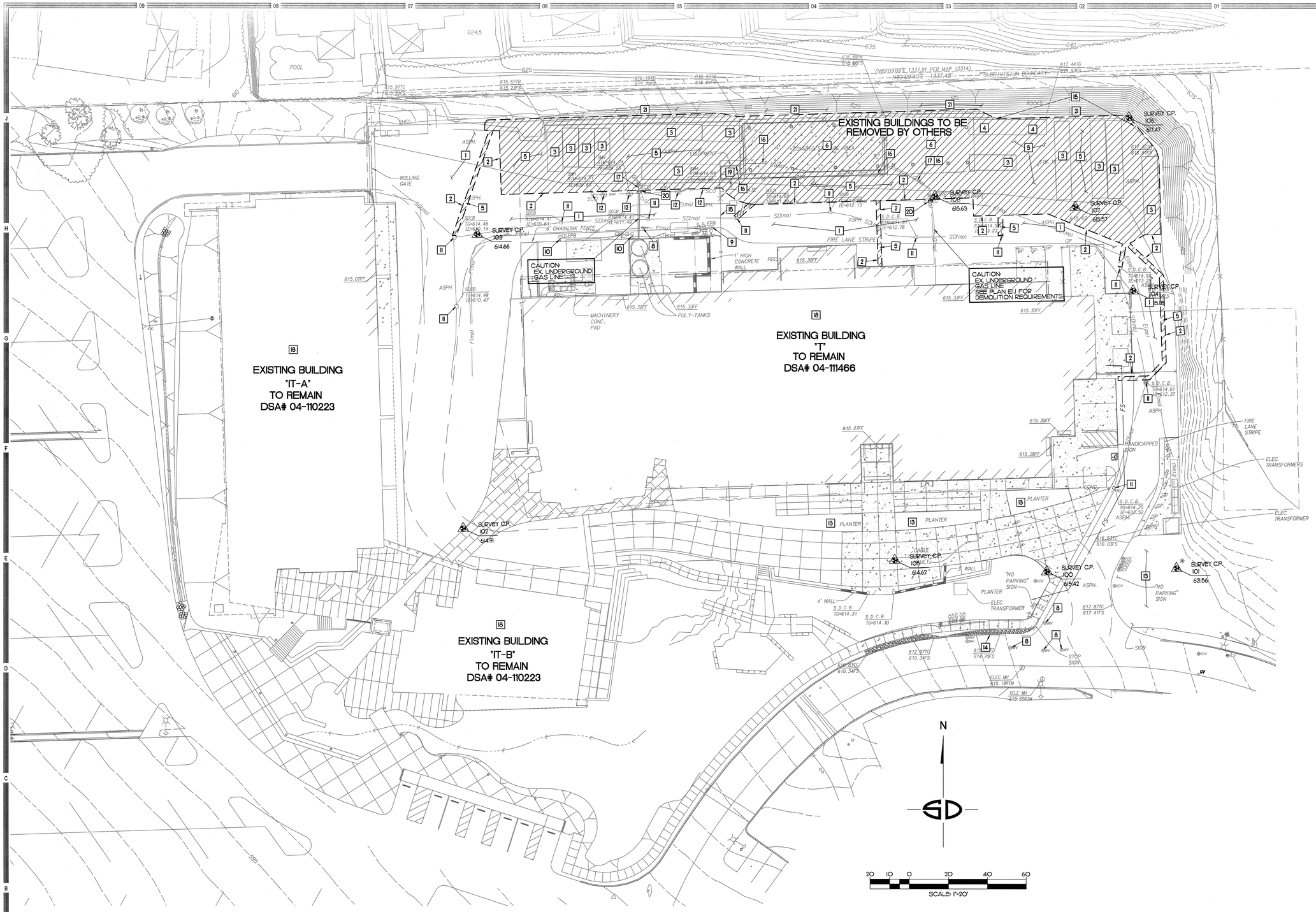
Plotted Monday, October 16, 2017 4:26pm by edavids

SM3071 (C2)

PLEASE RECYCLE



CAUTION:

LOCATION OF EXISTING UTILITIES ON THIS PLAN ARE APPROXIMATE & PER RECORD DRAWINGS AND SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES.

NOTE:

EXISTING SUBSURFACE UTILITIES SHALL REMAIN IN PLACE, PROTECTED, & IN SERVICE. ANY SERVICE DISRUPTION MUST BE COORDINATED WITH UCSD HOUSING MINIMUM 5 WORKING DAYS IN ADVANCE.

CAUTION:

LOCATION OF EXISTING UTILITIES ON THIS PLAN ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.

SURVEY CONTROL POINTS

NAD 83 BASIC (GROUND FEET), NAVGD 29 DATUM

CONTROL POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
100	2000450.871	6275715.179	615.420	SET SCRIBED X
101	2000451.500	6275781.400	621.560	SET SPIKE
102	2000477.946	6275417.001	614.909	SET MN IN AC
103	2000628.274	6275426.542	614.659	SET MN IN AC
104	2000593.746	6275761.436	615.183	SET MN IN AC
105	2000457.974	6275637.315	614.616	SET INK X
106	2000682.310	6275760.852	617.467	SET SPIKE
107	2000637.018	6275732.823	615.567	SET MAG NAIL
108	2000643.727	6275660.824	615.625	SET MAG NAIL

PK: PK NAIL
PT: POINT
CHK: CHECK
CP: CONTROL POINT
MAG: MAG NAIL
SCRB X: SCRIBED "X" ON SURFACE
60D: 60D NAIL
MN: MONUMENT
AC: ASPHALT CONCRETE

DEMOLITION NOTES

1. THE GENERAL CONTRACTOR SHALL DEVELOP AND IMPLEMENT A CONSTRUCTION WASTE MANAGEMENT PLAN. DEMOLITION AND CONSTRUCTION WASTE SHALL BE QUANTIFIED AND TRACKED. MATERIALS REMOVED AS PART OF ASBESTOS AND HAZARDOUS MATERIAL REMEDIATION ARE EXCLUDED FROM THIS REQUIREMENT.
2. NOT USED.
3. REFER TO PRECISE GRADING PLAN, SHEETS FOR LOCATIONS OF SAWCUT AND MATCH OF EXISTING IMPROVEMENTS FLUSH.
4. REMOVE ALL FOOTINGS WITHIN THE AREA OF DEMOLITION. BACKFILL AND COMPACT AREAS OF EXCAVATION. BUILDING FOOTINGS INTEGRAL TO EXISTING STRUCTURES TO REMAIN SHALL BE LEFT INTACT AND UNDISTURBED.
5. COORDINATE WITH PALOMAR COLLEGE REPRESENTATIVE FOR THE DISCONNECT OF ALL UTILITIES TO EXISTING STRUCTURES. CUT, CAP, AND DISCONNECT IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND SERVING UTILITY COMPANY PROCEDURES.
6. CONTRACTOR SHALL REMOVE ALL EXISTING SURFACE IMPROVEMENTS, LANDSCAPE, VEGETATION, TREES, PAVEMENT, WALLS, FENCES, AND OTHER IMPROVEMENTS LOCATED WITHIN THE LIMIT OF DEMOLITION INDICATED ON THE PLANS, UNLESS OTHERWISE NOTED.
7. CONTRACTOR SHALL DISPOSE OF ALL DEMOLITION MATERIALS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. CONTRACTOR SHALL RETURN ANY AND ALL SALVAGED PROPERTY REMOVED FROM SITE TO PALOMAR COLLEGE.
8. CONTRACTOR SHALL PERFORM REMEDIAL GRADING OF THE SITE IN ACCORDANCE WITH THE DIRECTION OF THE SUPERVISING GEOTECHNICAL ENGINEER.
9. CONTRACTOR SHALL COORDINATE ALL UTILITY REMOVALS AND REALIGNMENTS TO PROVIDE CONTINUOUS SERVICE TO ALL BUILDINGS TO REMAIN. CONTRACTOR SHALL COORDINATE WITH UCSD MAINTENANCE & OPERATION PERSONNEL. CONTRACTOR SHALL PROVIDE A WRITTEN PLAN FOR UTILITY RELOCATION & DEMOLITION TO THE PROJECT PALOMAR COLLEGE REPRESENTATIVE FOR APPROVAL 20 WORKING DAYS IN ADVANCE OF SITE DEMOLITION.
10. CONTRACTOR SHALL PROTECT THE EXISTING WATER MAINS IN PLACE. COORDINATE WITH PALOMAR COLLEGE REPRESENTATIVE.
11. CONTRACTOR SHALL PROTECT EXISTING ELECTRICAL & COMMUNICATION LINES IN PLACE. SEE ELECTRICAL PLANS, UNLESS OTHERWISE NOTED.
12. CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL & PUBLIC SAFETY. COORDINATION WITH PALOMAR COLLEGE REPRESENTATIVE IS REQUIRED. THROUGH PASSAGE FOR VEHICLES AND PEDESTRIANS IS REQUIRED AT ALL TIMES.
13. ENGINEER OF WORK IS NOT RESPONSIBLE FOR JOB SAFETY.
14. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY HORIZONTAL AND VERTICAL ALIGNMENT OF ALL EXISTING AND PROPOSED IMPROVEMENTS TO BE MET BY WORK TO BE DONE PRIOR TO CONSTRUCTION. IN THE EVENT THAT THE ALIGNMENT IS IN CONFLICT WITH THE WORK TO BE DONE. CONTRACTOR SHALL STOP WORK IMMEDIATELY AND NOTIFY THE UNIVERSITY'S REPRESENTATIVE OF THE CONFLICT.
15. THE LOCATION OF EXISTING UNDERGROUND FACILITIES ARE INDICATED ON THE PLANS AS A RESULT OF A SEARCH OF THE AVAILABLE RECORDS. LOCATIONS HAVE NOT BEEN FIELD VERIFIED. CONTRACTOR IS DIRECTED TO REQUEST UTILITY MARK OUT AND TO EXCAVATE AND VERIFY LOCATIONS PRIOR TO EXCAVATIONS. ENGINEER OF WORK DOES NOT ASSUME RESPONSIBILITY FOR THE ACCURACY OF ANY UTILITY LOCATIONS INDICATED ON THE PLAN.
16. CONTRACTOR SHALL REMOVE ALL PAVEMENT AND BASE MATERIAL FROM PROPOSED PLANTING AREAS.

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KEYNOTES

DEMOLITION NOTES

1. EXISTING A.C./CONCRETE TO REMAIN.
2. SAWCUT LINE.
3. REMOVE EXISTING STORAGE CONTAINERS.
4. REMOVE EXISTING SHED.
5. REMOVE EXISTING ASPHALT AND CONCRETE PAVEMENT INCLUDING CURBS & AC BERMS.
6. EXISTING BUILDING TO BE REMOVED BY OTHERS, SEE ARCHITECTURAL PLANS.
7. NOT USED.
8. EXISTING WATER VALVE CAN TO REMAIN AND PROTECT IN PLACE.
9. EXISTING UTILITY HANDHOLES TO REMAIN. PROTECT IN PLACE.
10. EXISTING LIGHT AND HANDHOLE TO REMAIN. PROTECT IN PLACE.
11. EXISTING STORM DRAIN CATCH BASIN / AREA DRAIN TO REMAIN AND PROTECT IN PLACE.
12. EXISTING STORM DRAIN, CATCH BASIN, AND SANITARY SEWER MANHOLES AND CLEANOUTS TO REMAIN AND PROTECT IN PLACE. LOCATE SERVICE TO BUILDINGS (IF ANY). CAP AND REMOVE NORTHERLY BEFORE START DEMOLITION.
13. EXISTING LANDSCAPE TO REMAIN AND PROTECT IN PLACE.
14. EXISTING CURB TO REMAIN AND PROTECT IN PLACE.
15. REMOVE EXISTING CHAINLINK FENCE INCLUDING FOOTINGS, POSTS, GATES, ETC.
16. EXISTING ELECTRICAL CONDUIT AND CABLES TO BE REMOVED OR RELOCATED PER ELECTRICAL PLANS. SEE SHEET E0.1.
17. EXISTING GAS TO BE REMOVED OR RELOCATED BY OTHERS.
18. EXISTING BUILDING TO REMAIN AND PROTECT IN PLACE.
19. REMOVE ELECTRICAL PAD.
20. AFTER DISCONNECTING WATER, GAS AND OTHER SERVICES PER SPECIFICATIONS AND INSPECTION, CUT PIPES AND CONDUITS AT SAWCUT LINE, CAP AND REMOVE NORTHERLY BEFORE DEMOLITION.
21. SLOPE OVERCUT PER STRUCTURAL PLANS.

NOTES:

ENGINEER OF WORK
Snipes-Dye associates
civil engineers and land surveyors
8348 CENTER DRIVE, STE. G, LA MESA, CA 91942
TELEPHONE (619) 697-9234 FAX (619) 460-2033
MATTHEW P. HURTZ R.C.E. 79546
EXPIRES 09-30-18
12-7-17

SDA PROJECT NO. SM3071

Key Plan

Consultant Seal

REGISTERED PROFESSIONAL ENGINEER — MATTHEW P. HURTZ — No. 79546 Exp. 9-30-18 CIVIL — STATE OF CALIFORNIA

Agency Approval FILE NO. 37-C1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 04-115420
ACS 3rd FLS HP SSS KP
DATE OCT 18 2017

Project Title

PALOMAR COLLEGE Learning for Success

PALOMAR
NEW STORAGE BUILDINGS
1140 W. MISSION RD.,
SAN MARCOS, CA 92069
(760) 744-1150

No.	Description	Date

Drawing Title:

EXISTING CONDITIONS AND DEMO PLAN

Architect's Seal

LICENSED ARCHITECT — KENNETH SALYER — NO. C-19082 — REN. 11-30-17 — STATE OF CALIFORNIA

Designed:	EC	Project No.	3443001-302
Drawn:	BMW	Scale:	1" = 20'
QAQC	MPK	Drawing No.	C2.0
Date:	10/18/2017		

DSA APPROVAL

PLEASE RECYCLE

SM3071 (C2)

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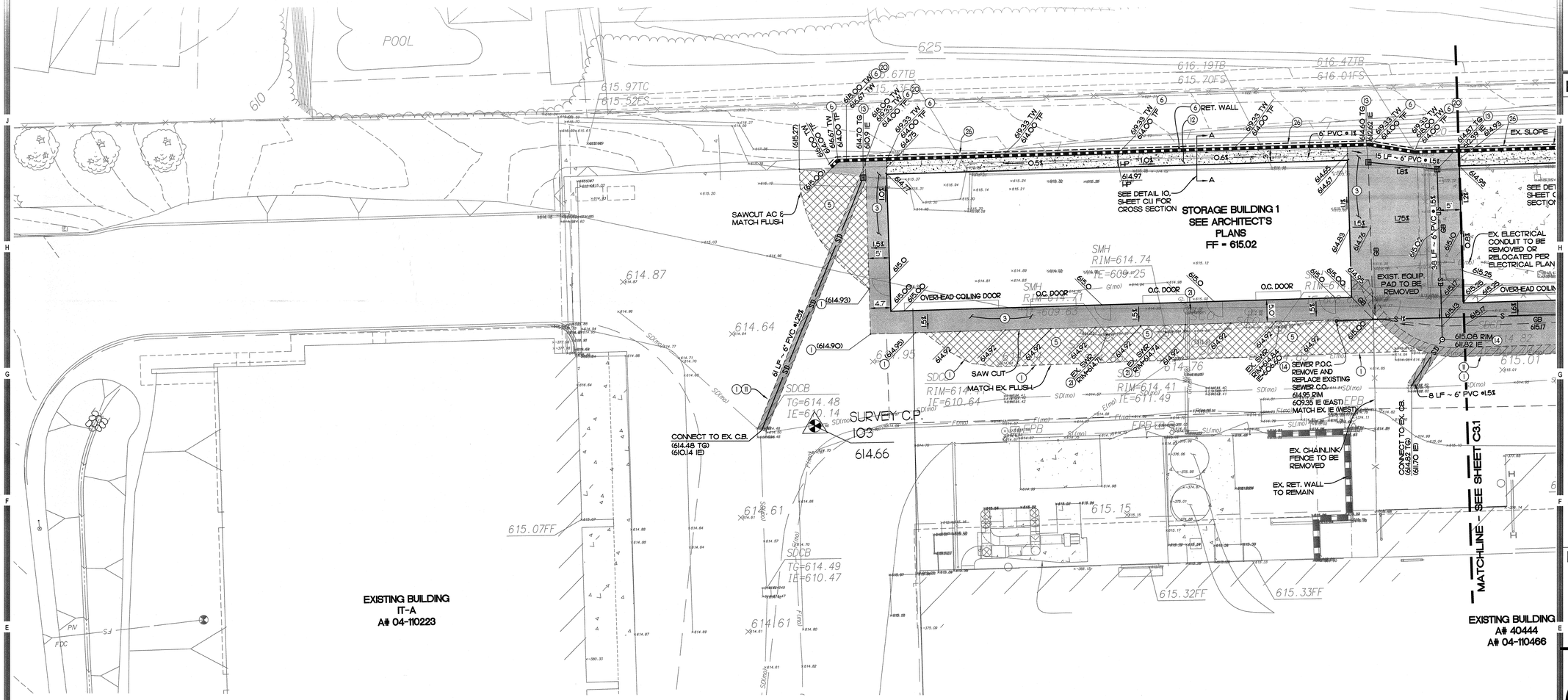
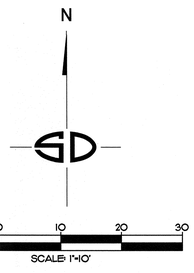
Plotted Monday, October 16, 2017 4:33pm by edonald



RETAINING WALL NOTES

1. SEE WALL PROFILE ON SHEET C3.2.
2. SEE RETAINING WALL DETAILS ON ARCHITECTURAL AND STRUCTURAL PLANS, SHEETS A10.1 AND S3.2.
3. TW ELEVATIONS REFER TO THE TOP OF LAST FULL CMU UNIT BEFORE ANY CAPS OR COVERING.



HMC Architects
3546 Concours Street / Ontario, CA 91764
T 909 989 9979 / www.hmcarchitects.com

KEYNOTES

(1) MATCH EXISTING FLUSH.
(2) PROPOSED 6" AC BERM PER SDRSD G-5, TYPE A.
(3) AC PAVEMENT PER DETAIL 1, SHEET C11.
(4) 6" CURB PER SDRSD G-01. SEE SHEET C1.2.
(5) GRIND 2" MIN. AND OVERLAY AC PAVEMENT. PROVIDE SMOOTH TRANSITION. SEE DETAIL 2, SHEET C11.
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(14) STORM DRAIN OR SEWER CLEANOUT PER DETAIL 6, SHEET C11
(15) CONCRETE TRUST BLOCK PER SDRSD WT-01.
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NOTE: FOR SAN DIEGO REGIONAL STANDARD DRAWINGS (SDRSD) SELECTED DETAILS SEE SHEET C1.2. REFER TO SDRSD LAST EDITION FOR ADDITONAL NOTES AND DETAILS.

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SDA PROJECT NO. SM3071

Key Plan

Consultant Seal

REGISTERED PROFESSIONAL ENGINEER
MATTHEW P. HURTZ
No. 79546
Exp. 9-30-18
CIVIL
STATE OF CALIFORNIA

Agency Approval FILE NO. 37-C1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 04-115420
ACS 31 FLS 16 SSS 142
DATE OCT 18 2017

Project Title

PALOMAR COLLEGE®
Learning for Success

PALOMAR
NEW STORAGE BUILDINGS
1140 W. MISSION RD.,
SAN MARCOS, CA 92069
(760) 744-1150

No.	Description	Date

Drawing Title:

GRADING AND UTILITIES PLAN

Architect's Seal

LICENSED ARCHITECT
KENNETH SALYER
NO. C-19082
REN. 11-30-17
STATE OF CALIFORNIA

Designed:	EC	Project No.	3443001-302
Drawn:	BMW	Scale:	1" = 10'
QAQC	MPK	Drawing No.	C3.0
Date:	10/18/2017		

DSA APPROVAL

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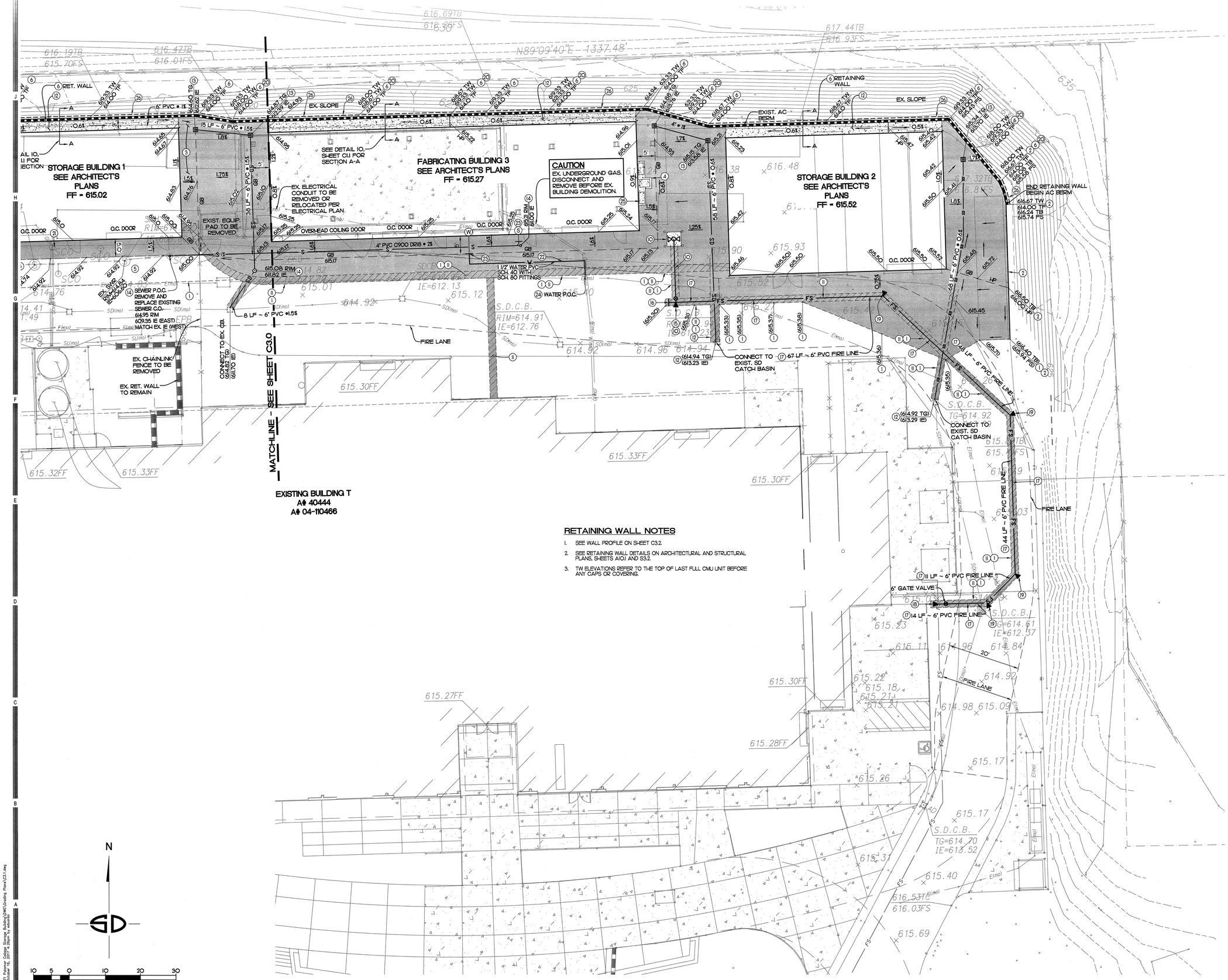

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MATTHEW P. KURTZ R.C.E. 79546
EXPIRES 09-30-18

SDA PROJECT NO. SM3071

Key Plan

Consultant Seal

REGISTERED PROFESSIONAL ENGINEER — MATTHEW P. KURTZ — No. 79546 Exp. 9-30-18 — CIVIL — STATE OF CALIFORNIA

Agency Approval FILE NO. 37-C1

IDENTIFICATION STAMP
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APPL. 04-115420
ACS SL FLS HP SSS MB
DATE OCT 18 2017

Project Title

PALOMAR COLLEGE® Learning for Success

PALOMAR
NEW STORAGE BUILDINGS
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(760) 744-1150

No.	Description	Date

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LICENSED ARCHITECT — KENNETH SALYER — NO. C-19082 — REN. 11-30-17 — STATE OF CALIFORNIA

Designed:	EC	Project No.	3443001-302
Drawn:	BMW	Scale:	1" = 10'
QAQC	MPK	Drawing No.	C3.1
Date:	10/18/2017		

DSA APPROVAL

PLEASE RECYCLE

SM3071 (C2)

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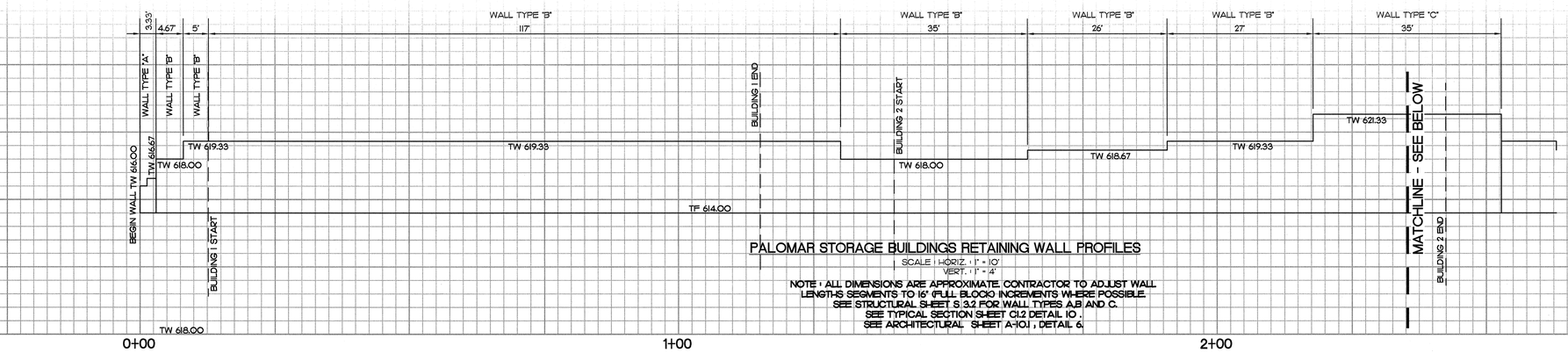
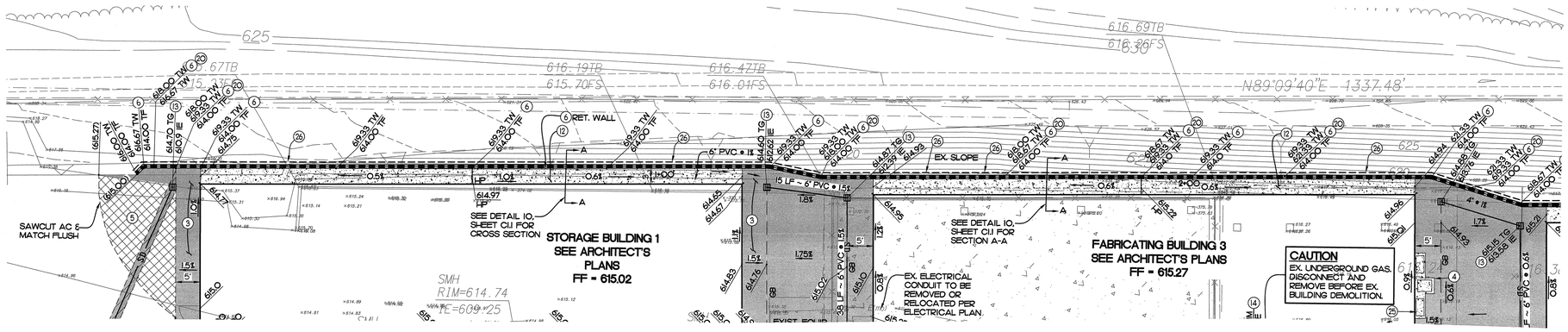
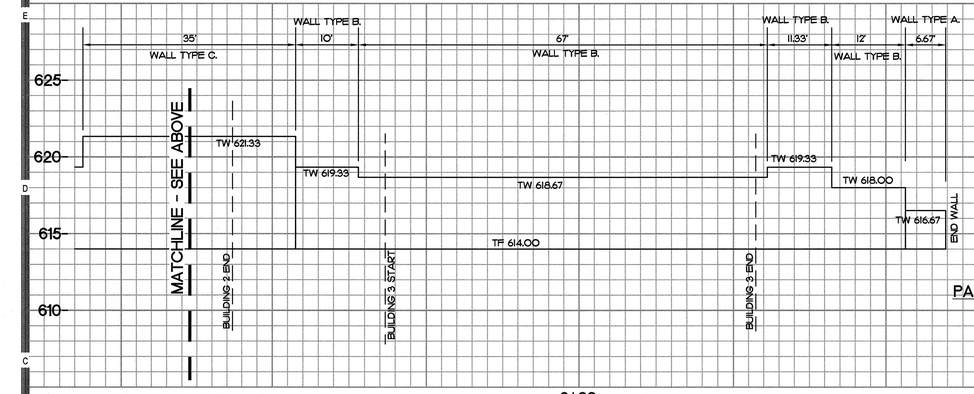


PALOMAR STORAGE BUILDINGS RETAINING WALL PROFILES

SCALE : HORIZ. 1" = 10'
VERT. 1" = 4'

NOTE : ALL DIMENSIONS ARE APPROXIMATE. CONTRACTOR TO ADJUST WALL LENGTHS SEGMENTS TO 16" (FULL BLOCK) INCREMENTS WHERE POSSIBLE.
SEE STRUCTURAL SHEET S 3.2 FOR WALL TYPES A,B AND C.
SEE TYPICAL SECTION SHEET C1.2 DETAIL 10 .
SEE ARCHITECTURAL SHEET A-10.1 , DETAIL 6.





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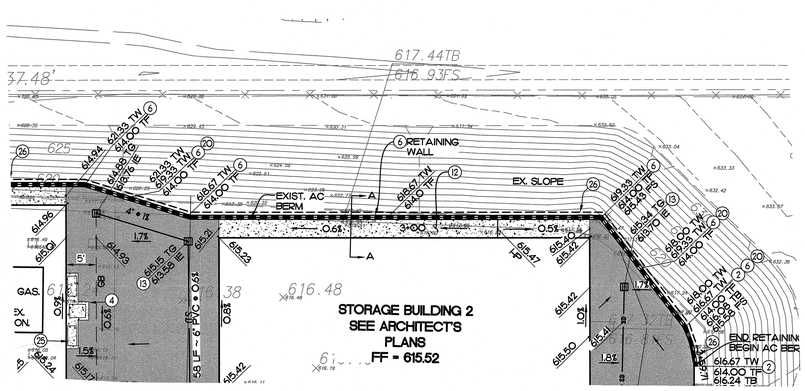

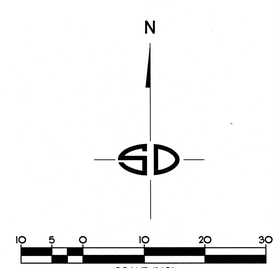

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No.	Description	Date

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Designed:	EC	Project No.	3443001-302
Drawn:	BMW	Scale:	1" = 10'
QAQC	MPK	Drawing No.	C3.2
Date:	10/18/2017		

S:\Users\SMA071_Palomar College_Storage_Building\PWC\Grading Plans\C3.2.dwg
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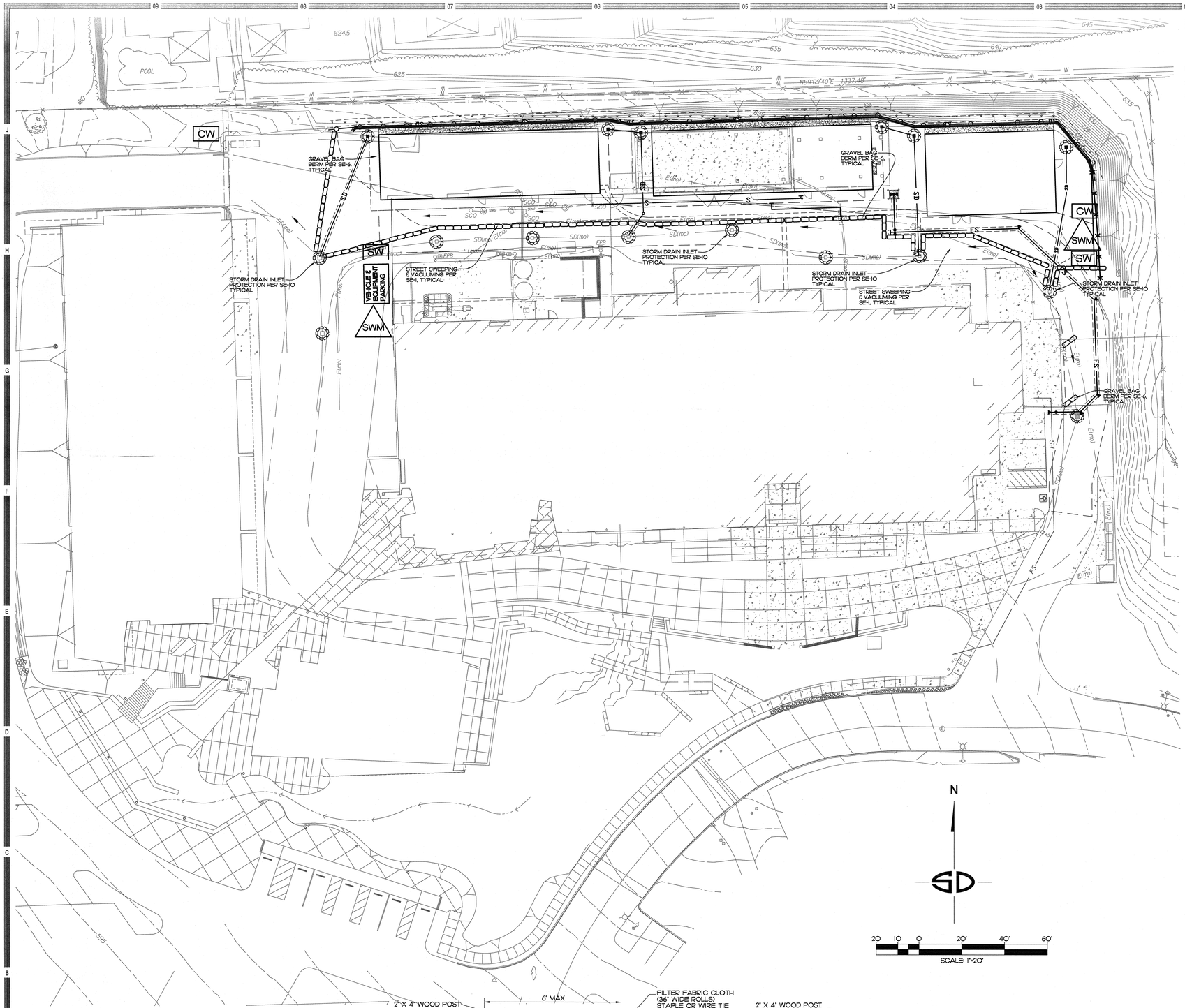
SM3071 (C2)

PLEASE RECYCLE

DSA APPROVAL



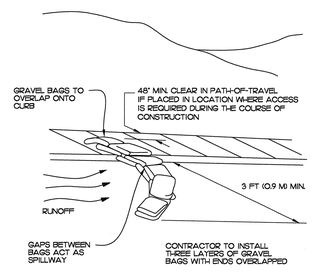
LEGEND:

REFER TO "CALIFORNIA STORMWATER BMP HANDBOOK" FOR BEST MANAGEMENT PRACTICES (BMPS)

1.	SILT FENCE	SE-1	
2.	FIBER ROLLS	SE-5	
3.	GRAVEL BAG BERM. APPROXIMATE INITIAL LOCATION SHOWN. CONTRACTOR TO RELOCATE AS NEEDED FOR EACH CONSTRUCTION PHASE.	SE-6	
4.	STORM DRAIN INLET PROTECTION	SE-10	
5.	TEMPORARY CONCRETE WASHOUT	WM-8	CW
6.	TEMPORARY WASTE CONTAINER	WM-5	SWM
7.	SANITARY/SEPTIC WASTE	WM-9	SW
8.	DIRECTION OF RUNOFF FLOW		
8.	FIBER MATS	SS-7	

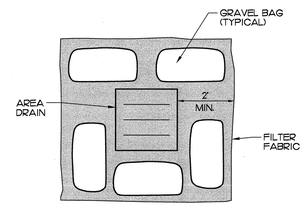
BMPS SELECTED FOR PROJECT

EC-1	SCHEDULING
EC-7	GEOTEXTILES, PLASTIC COVERS & EROSION CONTROL BLANKETS/MATS
SE-5	FIBER ROLLS
SE-6	GRAVEL BAG BERM
SE-7	STREET SWEEPING AND VACUUMING
SE-10	STORM DRAIN INLET PROTECTION
WE-1	WIND EROSION CONTROL
WM-1	MATERIAL DELIVERY AND STORAGE
WM-2	MATERIAL USE
WM-4	SPILL PREVENTION AND CONTROL
WM-5	SOLID WASTE MANAGEMENT
WM-8	CONCRETE WASTE MANAGEMENT
WM-9	SANITARY/SEPTIC WASTE MANAGEMENT
WM-10	LIQUID WASTE MANAGEMENT



DETAIL : GRAVEL BAG BERM

NO SCALE

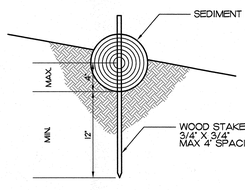


PLACE FILTER FABRIC OVER AREA DRAIN. PLACE GRAVEL BAGS TO SECURE FABRIC.

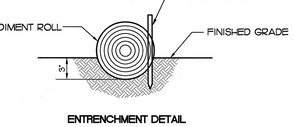
CLEAR COLLECTED DEBRIS FROM FABRIC TO INSURE CONTINUED OPERATION OF SEDIMENT CONTROL AT LEAST EVERY 4 WEEKS, AFTER EACH STORM EVENT AND AS REQUIRED.

DETAIL : STORM DRAIN INLET PROTECTION (PAVED AREAS)

NO SCALE



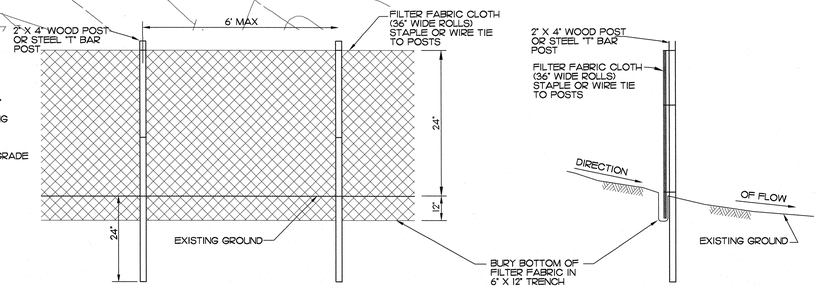
ENTRENCHMENT DETAIL IN SLOPE AREA



ENTRENCHMENT DETAIL IN FLAT AREA

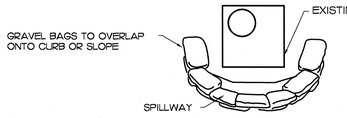
DETAIL : FIBER ROLL

NO SCALE



DETAIL : SILT FENCE

NO SCALE



PLAN

NOTES

1. LEAVE A GAP OF ONE BAG IN THE MIDDLE OF THE TOP ROW OF BAGS TO SERVE AS THE SPILLWAY. SPILLWAY HEIGHT SHALL BE LOWER THAN CURB HEIGHT AND SUFFICIENT IN SIZE TO PASS FLOWS FROM SEVERE STORM EVENT
2. PLACE 2 LAYERS OF OVERLAPPING GRAVEL BAGS AND PACK TIGHTLY TOGETHER TO MINIMIZE THE SPACE BETWEEN BAGS
3. INSPECT AND REPAIR FILTERS AFTER EACH STORM EVENT. REMOVE SEDIMENT WHEN ONE-HALF OF THE FILTER DEPTH HAS BEEN FILLED.

DETAIL : GRAVEL BAG PLACEMENT AT INLETS

NO SCALE

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KEYNOTES

NOTES:

ENGINEER OF WORK
Snipes-Dye associates
civil engineers and land surveyors
8348 CENTER DRIVE, STE. G, LA MESA, CA 91942
TELEPHONE (619) 697-9234 FAX (619) 460-2033
MATTHEW P. KURTZ R.C.E. 79546
EXPIRES 09-30-18

SDA PROJECT NO. SM3071

Key Plan

Consultant Seal

REGISTERED PROFESSIONAL ENGINEER MATTHEW P. KURTZ No. 79546 Exp. 9-30-18 CIVIL STATE OF CALIFORNIA

Agency Approval FILE NO. 37-C1

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APPL. 04-115420
ACS. FLS SSS
DATE OCT 18 2017

Project Title

PALOMAR COLLEGE® Learning for Success

PALOMAR
NEW STORAGE BUILDINGS
1140 W. MISSION RD.,
SAN MARCOS, CA 92069
(760) 744-1150

No.	Description	Date

Drawing Title:

EROSION CONTROL PLAN

Architect's Seal

LICENSED ARCHITECT KENNETH SAXTER NO. C-19082 REN. 11-30-17 STATE OF CALIFORNIA

Designed:	EC	Project No.	3443001-302
Drawn:	BMW	Scale:	1" = 20'
QAQC	MPK	Drawing No.	C4.0
Date:	10/18/2017		

DSA APPROVAL

PLEASE RECYCLE

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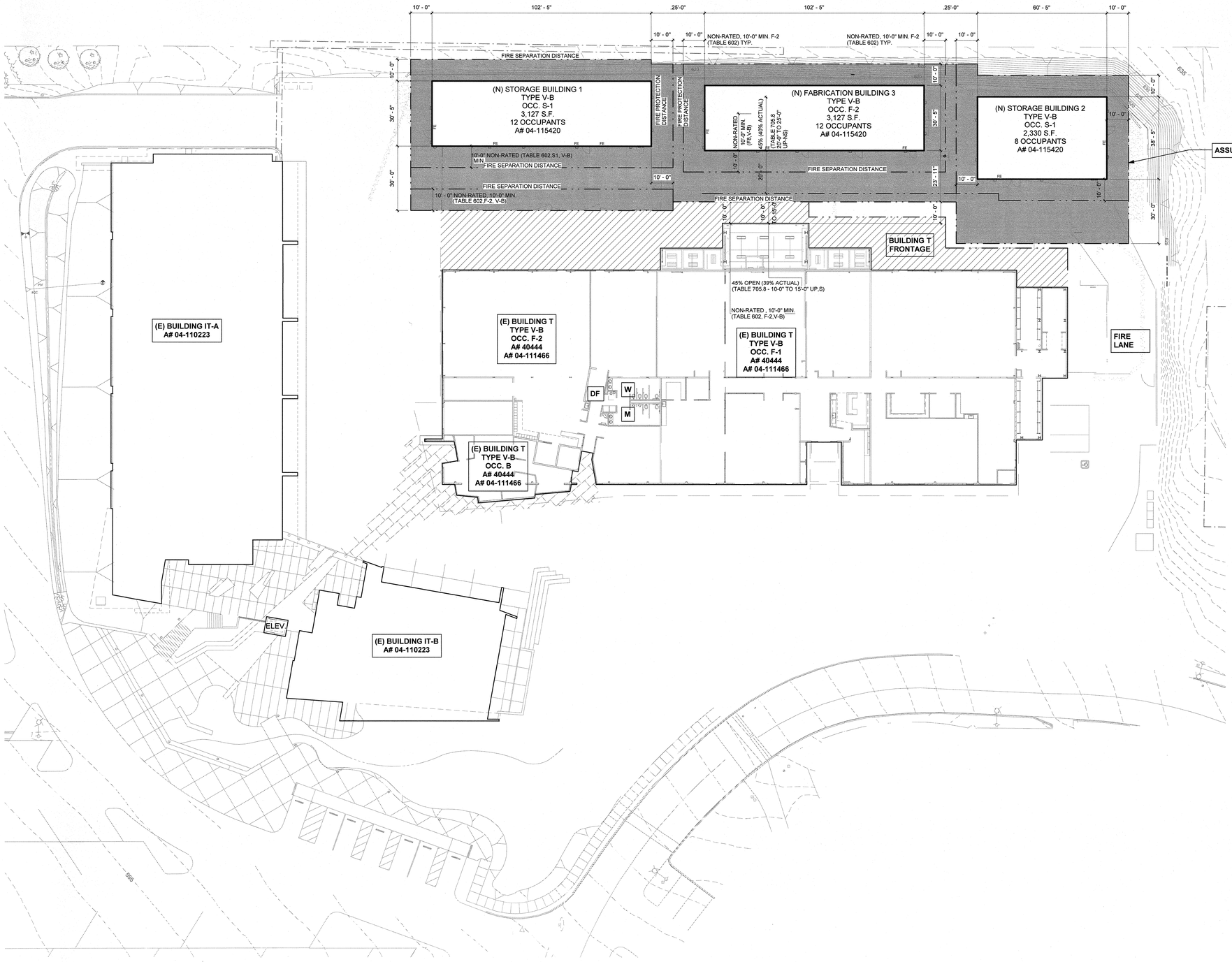
Michael Mendez October 16, 2017 4:23pm by Michael

SM3071 (C2)

OCCUPANT LOAD		FIXTURE TYPE	TOTAL REQ'D FIXTURES		PROVIDED	DELTA	NOTES:
A Occ	0 SF / 30= 0	WATER FOUNTAINS	150	1	1	0	**ACTUAL REQUIREMENT IS BASED ON THE TOTAL NUMBER OF FIXTURES PROVIDED FOR MALE OCCUPANTS.
B Occ	0 SF / 200= 0						
S Occ	7730 SF / 5000= 2						
TOTAL	2						
MALE	1	WATER CLOSETS	50	1	2	1	
		URINALS	100	1	2	1	
		LAVATORIES	75	1	2	1	
FEMALE	1	WATER CLOSETS	15	2	4	2	
		LAVATORIES	50	1	2	1 **	
PER TABLE 422.1, 2013 CALIFORNIA PLUMBING CODE							

CODE ANALYSIS

BUILDING	OCCUPANCY CLASSIFICATION PER CBC CHAPTER 3	CONST.TYPE PER CBC TABLE 601	ALLOWABLE NUMBER OF STORIES PER CBC TABLE 503	ALLOWABLE BUILDING HEIGHT IN FT PER CBC TABLE 503	ACTUAL BUILDING HEIGHT IN FT	ALLOWABLE BUILDING FLOOR AREA IN SQ. FT. PER CBC 503	ACTUAL NUMBER OF OF STORIES	ACTUAL FLOOR AREA IN SQ. FT.	REQUIRED SEPARATION OF OCCUPANCIES PER CBC TABLE 508.4	AUTOMATIC FIRE SPRINKLER SYSTEM
STORAGE BUILDING 1	S-1 STORAGE	V-B	1	40 FEET	23 FEET	9,000	1	3,127	SINGLE OCCUPANCY	NOT REQ'D PER CBC 903.2.9
STORAGE BUILDING 2	S-1 STORAGE	V-B	1	40 FEET	24 FEET	9,000	1	2,330	SINGLE OCCUPANCY	NOT REQ'D PER CBC 903.2.9
FABRICATION BUILDING 3	F-2 FACTORY	V-B	2	40 FEET	23 FEET	13,000	1	3,127	SINGLE OCCUPANCY	NOT REQ'D PER CBC 903.2.4
OVERALL	S-1-STORAGE, F-2 FABRICATING	V-B	1 AND 2	40 FEET	24 FEET	9,000 / 13,000	1	8,584	SINGLE OCCUPANCY	SEE ABOVE



PRELIMINARY CODE ANALYSIS SITE PLAN | A1 | 1" = 20'-0"

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LEGEND

FIRE SEPARATION DISTANCE

NOTES

1. FOR P.O.T. AND EGRESS PATH, REFER TO A1.2 SITE PLAN.
2. FOR WALL INFILL TO (E) BLDG'S' NORTH FACADE REFER TO SHEET A2.0

Key Plan

Consultant Seal

Agency Approval FILE NO.37-C1
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Project Title

PALOMAR COLLEGE
NEW STORAGE BUILDINGS
1140 W. MISSION RD.,
SAN MARCOS, CA 92069
(760) 744-1150

No.	Description	Date

Drawing Title:
CODE ANALYSIS

Architect's Seal
LICENSED ARCHITECT KENNETH SAUER NO. C-19092 REN. 11-30-19 STATE OF CALIFORNIA

Designed:	DS	Project No.	3443001-302
Drawn:	VH,GS	Scale:	As indicated
QA/QC	KS	Drawing No.	A0.1
Date:	10/18/2017		

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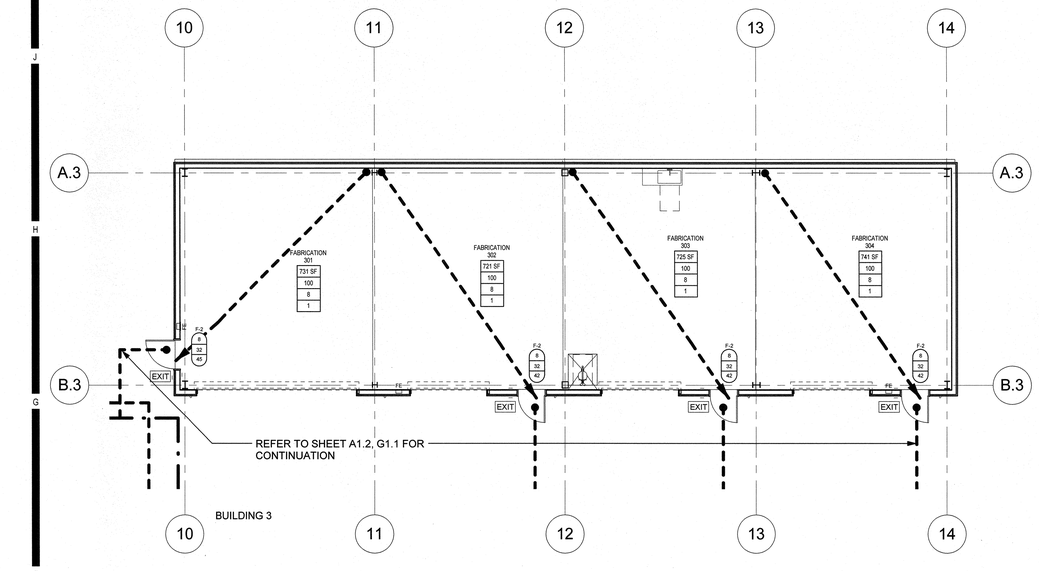

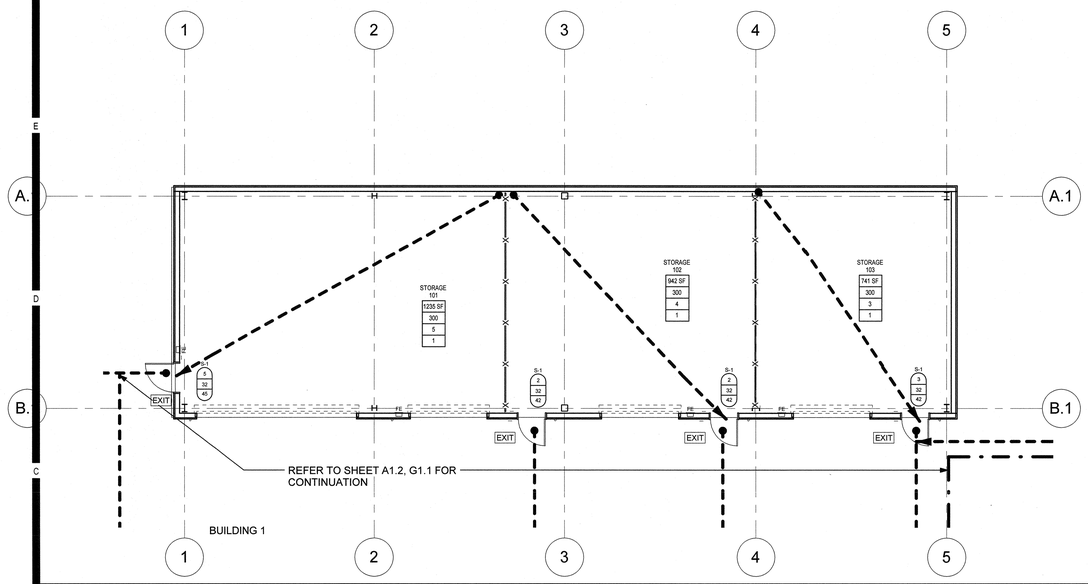

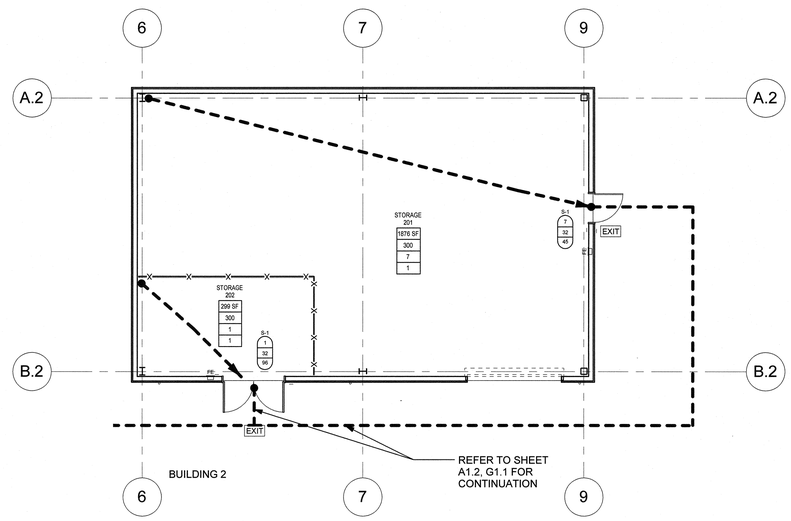

Occupancy - Load Calculations

Room Number	Room Name	Area	TABLE 1004.1.2 Maximum Floor Area Allowances Per Occupant	Occupancy per Table 1015.1	Maximum Occupancy Load	Occupant Load Factor	Occupant Load	Number of Exits Required
101	STORAGE	1235 SF	1 Accessory storage areas, mechanical equipment room	17 S	29	300	5	1
102	STORAGE	942 SF	1 Accessory storage areas, mechanical equipment room	17 S	29	300	4	1
103	STORAGE	741 SF	1 Accessory storage areas, mechanical equipment room	17 S	29	300	3	1
201	STORAGE	1876 SF	1 Accessory storage areas, mechanical equipment room	17 S	29	300	7	1
202	STORAGE	299 SF	1 Accessory storage areas, mechanical equipment room	17 S	29	300	1	1
301	FABRICATION	731 SF	16 Industrial areas	5 F	49	100	8	1
302	FABRICATION	721 SF	16 Industrial areas	5 F	49	100	8	1
303	FABRICATION	725 SF	16 Industrial areas	5 F	49	100	8	1
304	FABRICATION	741 SF	16 Industrial areas	5 F	49	100	8	1
		8011 SF					52	

EA - EGRESS DATA

Type	EXIT ROUTE	DISTANCE
01 Start	FURTHEST POINT, 101	42' - 7"
03 End	FURTHEST POINT, 101	5' - 10"
FURTHEST POINT, 101: 2		48' - 5"
01 Start	FURTHEST POINT, 102	32' - 4"
03 End	FURTHEST POINT, 102	7' - 11"
FURTHEST POINT, 102: 2		40' - 3"
01 Start	FURTHEST POINT, 103	10' - 0"
02 Middle	FURTHEST POINT, 103	18' - 0"
03 End	FURTHEST POINT, 103	8' - 6"
FURTHEST POINT, 103: 3		36' - 6"
01 Start	FURTHEST POINT, 201	49' - 8"
03 End	FURTHEST POINT, 201	8' - 10"
FURTHEST POINT, 201: 2		58' - 6"
01 Start	FURTHEST POINT, 202	9' - 0"
03 End	FURTHEST POINT, 202	9' - 10"
FURTHEST POINT, 202: 2		18' - 10"
01 Start	FURTHEST POINT, 301	27' - 7"
03 End	FURTHEST POINT, 301	7' - 6"
FURTHEST POINT, 301: 2		35' - 1"
01 Start	FURTHEST POINT, 302	27' - 3"
03 End	FURTHEST POINT, 302	8' - 6"
FURTHEST POINT, 302: 2		35' - 9"
01 Start	FURTHEST POINT, 303	27' - 3"
03 End	FURTHEST POINT, 303	8' - 6"
FURTHEST POINT, 303: 2		35' - 9"
01 Start	FURTHEST POINT, 304	27' - 1"
03 End	FURTHEST POINT, 304	8' - 6"
FURTHEST POINT, 304: 2		35' - 7"

EA - EXIT ACCESS TRAVEL DISTANCES AS DEFINED PER CBC 1016.2

EXIT ACCESS PATH LOCATION	ACTUAL DISTANCE	MAX DISTANCE
FURTHEST POINT, 101	48' - 5"	200'
FURTHEST POINT, 102	40' - 3"	200'
FURTHEST POINT, 103	36' - 6"	200'
FURTHEST POINT, 201	58' - 6"	200'
FURTHEST POINT, 202	18' - 10"	200'
FURTHEST POINT, 301	35' - 1"	200'
FURTHEST POINT, 302	35' - 9"	200'
FURTHEST POINT, 303	35' - 9"	200'
FURTHEST POINT, 304	35' - 7"	200'

TABLE 1004.1.1 Maximum Floor Area Allowances Per Occupant

Use Description	Occupant Load Factor	Gross/ Net
20 Locker rooms	50	gross
21 Mercantile, Areas on other floors	60	gross
21 Mercantile, Basement and grade floor areas	30	gross
21 Mercantile, Storage, stock, shipping areas	**300**	**gross**
22 Parking garages	200	gross
23 Residential	200	gross
24 Skating rinks and swimming pools, Decks	50	gross
24 Skating rinks and swimming pools, Rink and pool	15	gross
25 Stages and platforms	15	net
26 Warehouses	500	gross

TABLE 1004.1.1 Maximum Floor Area Allowances Per Occupant

Use Description	Occupant Load Factor	Gross/ Net
9 Business area	100	gross
10 Courtrooms - other than fixed seating	40	net
11 Day care	35	net
12 Dormitories	50	gross
13 Educational, Classroom area	20	net
13 Educational, Shops and other vocational room areas	50	net
14 Exercise rooms	50	gross
15 H-5 Fabrication and manufacturing areas	200	gross
16 Industrial areas	**100**	**gross**
17 Institutional areas, Inpatient treatment areas	240	gross
17 Institutional areas, Outpatient areas	100	gross
17 Institutional areas, Sleeping areas	120	gross
18 Kitchens, commercial	200	gross
19 Library, Reading rooms	50	net
19 Library, Stack areas	100	gross

TABLE 1004.1.1 Maximum Floor Area Allowances Per Occupant

Use Description	Occupant Load Factor	Gross/ Net
0 No Classification Applies	0	N/A
1 Accessory storage areas, mechanical equipment room	300	gross
2 Agricultural building	300	gross
3 Aircraft Hangers	500	gross
4 Airport terminal, Baggage claim	20	gross
4 Airport terminal, Baggage handling	300	gross
4 Airport terminal, Concourse	100	gross
4 Airport terminal, Waiting Areas	15	gross
5 Assembly, Gaming floors	11	gross
6 Assembly with fixed seats	1	PER SEAT
7 Assembly without fixed seats, Concentrated (chairs only- not fixed)	7	net
7 Assembly without fixed seats, Standing Space	5	net
7 Assembly without fixed seats, Unconcentrated (tables and chairs)	15	net
8 Bowling centers, additional areas	7	net
8 Bowling centers, per lane	5	EACH

Table 1015.1 SPACES WITH ONE MEANS OF EGRESS

Occupancy Table 1015.1	Maximum Occupancy Load
1 A	49
2 B	49
3 E - Non Daycare	49
4 E - Daycare	10
5 F	**49**
6 M	49
7 U	49
8 H-1	3
9 H-2	3
10 H-3	3
11 H-4	10
12 H-5	10
13 I-1	10
14 I-3	10
15 I-4	10
16 R	10
17 S	**29**

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KEYNOTES

(SM)

LEGEND

ROOM EXITING INFORMATION

ROOM NAME 101
00 SF — AREA (SQ FT)
OL — OCCUPANT LOAD FACTOR (PER TABLE 1004.1.2)
OLF — OCCUPANT LOAD (AREA DIVIDED BY LOAD FACTOR)
Exit — NUMBER OF EXITS REQUIRED (REFER TO CBC 1015.1)

DOOR EXITING INFORMATION

A/H — OCCUPANCY TYPE
#OCC — NUMBER OF OCCUPANTS EXITING THROUGH OPENING
REW — REQUIRED EXIT WIDTH (IN INCHES) (OCCUPANT LOAD X 0.3 AT STAIRS X 0.2 AT ALL OTHER AREAS,
PEW — PROVIDED EXIT WIDTH IN INCHES
PANICK — PANIC EXIT HARDWARE (WHERE OCCURS)

DOOR WIDTH:
39" CLEAR WIDTH OF DOOR ALLOWS 185 OCCUPANTS (38/0.2 = 195). NO SPACE OR COMBINATION OF SPACES ALONG THE EGRESS PATH OF TRAVEL HAS AN OCCUPANT LOAD EXCEEDING 195.

PATH OF EGRESS TRAVEL
EXISTING 1-HOUR FIRE BARRIER
(E) PATH OF TRAVEL

ACCESSIBLE PATH OF TRAVEL: The POT identified in these construction documents is compliant with the current applicable California Building Code accessibility provision for **path of travel requirements for alterations, additions and structural repairs.** As part of the design of this project, the POT was examined and any elements, components or portions of the POT that were determined to be noncompliant 1) have been identified and 2) the corrective work necessary to bring details, drawings and specifications incorporated into these construction documents. Any noncompliant elements, components or portions of the POT that will not be corrected by this project based on valuation threshold limitations or a finding of unreasonable hardship are so indicated in these construction documents.

During construction, if POT items within the scope of the project represented as code compliant are found to be nonconforming beyond reasonable construction tolerances, they shall be brought into compliance with the CBC as a part of this project by means of a construction change document.

NOTES

1. REFER TO SHEET G0.1 FOR TYPICAL SYMBOLS AND ABBREVIATIONS
2. COORD. EXTENT OF (N) A.C. PAVING AREAS W/ CIVIL AND ELECTRICAL DWGS.
3. FOR EXTENT OF CMU WALL, REFER TO CIVIL DWGS, C3.1
4. FOR DRAIN LOCATIONS, REFER TO CIVIL DRAWINGS
5. COORDINATE LOCATION OF FIRE LANE SIGN WITH LOCAL FIRE MARSHALL
6. FOR BUILDINGS FF ELEVATION, REFER TO CIVIL DWGS, C3.0 & C3.1

NOTES:
1. FOR FIRE ACCESS SITE PLAN, REFER TO G1.2: FIRE LANE TO BE PAINTED THE EXTENT OF NEW FIRE ACCESS LANE SHOWN ON G1.2. REFER TO DETAIL 16/A10.81 - PAINT FIRE LANE ON ASPHALT PAVING AND CONC.CURB
2. COORDINATE KNOX BOXES LOCATION SHOWN ON G1.2 W/ LOCAL FIRE AUTHORITY. REFER TO DETAILS: 11/A10.01 12/A10.01

Consultant Seal

Agency Approval FILE NO.37-C1
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DATE OCT 1 8 2017

Project Title
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SAN MARCOS, CA 92069
(760) 744-1150

No.	Description	Date

Drawing Title:
EXITING ANALYSIS

Architect's Seal
LICENSED ARCHITECT KENNETH SALTER NO. C-19082 REN. 11-30-17 STATE OF CALIFORNIA

Designed:	DS	Project No.	3443001-302
Drawn:	VH,GS	Scale:	As indicated
QAQC	KS	Drawing No.	A0.2
Date:	10/18/17		

EXITING ANALYSIS B6 NTS

TABLE 1004.1.1 MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT A2 NTS

Table 1015.1 SPACES WITH ONE MEANS OF EGRESS A1 NTS

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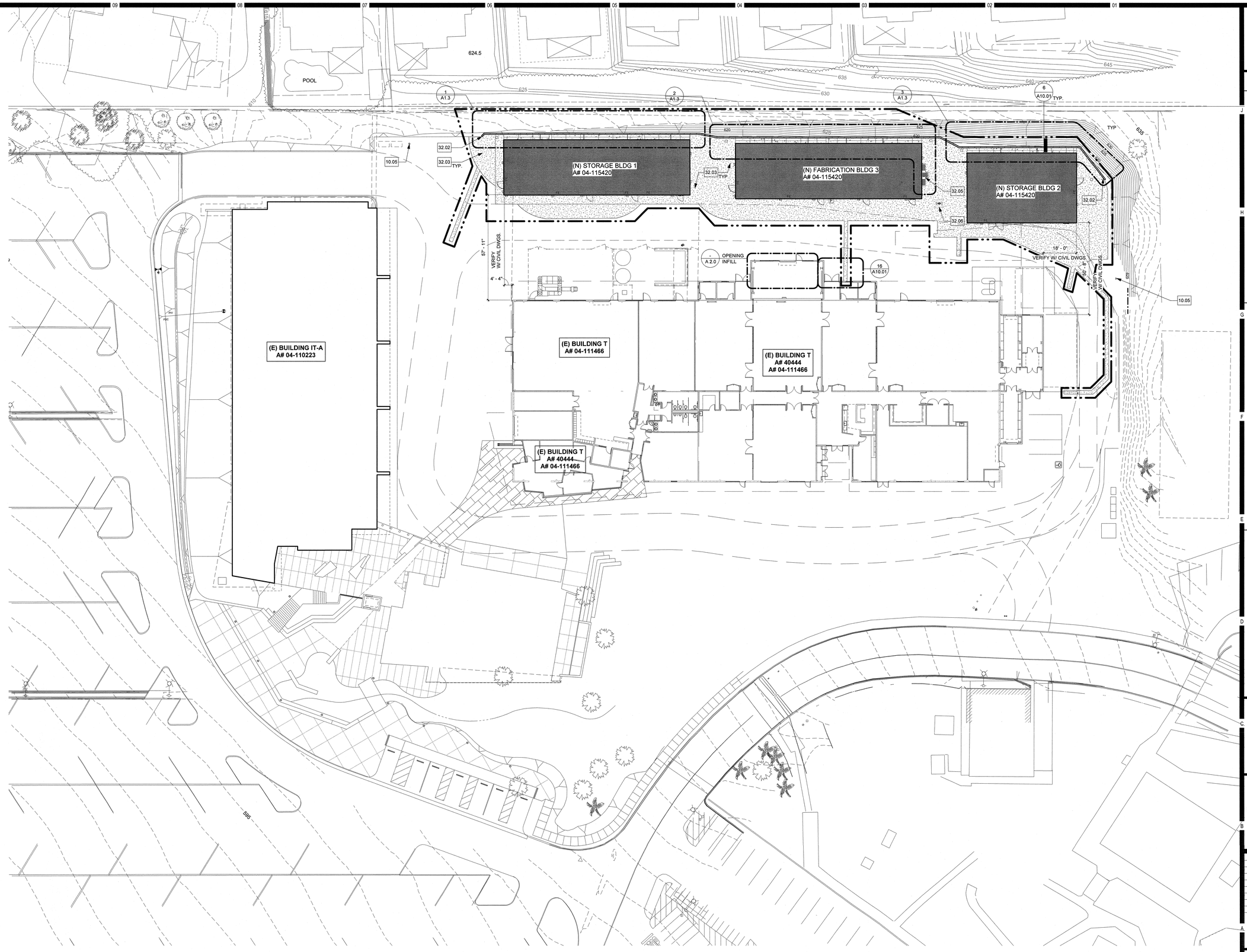

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KEYNOTES

NO.	NOTE - DETAIL
10.05	FIRE LANE SIGN - 9/A10.81
32.02	CMU RETAINING WALL - 6/A10.01
32.03	ASPHALT PAVING, REFER TO CIVIL DWGS
32.05	EQUIPMENT CONC. PAD - SEE ELEC. DWGS
32.06	(N) FIRE HYDRANT, SEE CIVIL DWGS

LEGEND

- (N) STORAGE/ FABRICATION BLDGS
- (N) ASPHALT PAVING, SEE CIVIL
- (N) CONCRETE PAVING, SEE CIVIL
- EQUIPMENT CONC. PAD
- APPROXIMATE LIMIT LINE OF CONSTRUCTION. SOME DISCIPLINES MAY REQUIRE WORK OUTSIDE OF LIMIT LINE
- (N) CMU RETAINING WALL, SEE CIVIL & STRUCTURAL DWGS
- EJ — CONCRETE CONTROL JOINT @ 8'-0" O.C.
- CONCRETE EXPANSION JOINT @ 24'-0" O.C.

NOTES

1. REFER TO SHEET G0.1 FOR TYPICAL SYMBOLS AND ABBREVIATIONS
2. COORD. EXTENT OF (N) A.C. PAVING AREAS W/ CIVIL AND ELECTRICAL DWGS.
3. FOR EXTENT OF CMU WALL, REFER TO CIVIL DWGS, C3.1
4. FOR DRAIN LOCATIONS, REFER TO CIVIL DRAWINGS
5. COORDINATE LOCATION OF FIRE LANE SIGN WITH LOCAL FIRE MARSHALL
6. FOR BUILDINGS FF ELEVATION, REFER TO CIVIL DWGS, C3.0 & C3.1

NOTES:
1. FOR FIRE ACCESS SITE PLAN, REFER TO G1.2: FIRE LANE TO BE PAINTED THE EXTENT OF NEW FIRE ACCESS LANE SHOWN ON G1.2. REFER TO DETAIL 16/A10.81 : PAINT FIRE LANE ON ASPHALT PAVING AND CONC CURB

2. COORDINATE KNOX BOXES LOCATION SHOWN ON G1.2 W/ LOCAL FIRE AUTHORITY. REFER TO DETAILS: 11/A10.01 12/A10.01

Consultant Seal

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No.	Description	Date

Drawing Title:
OVERALL SITE PLAN

Architect's Seal

LICENSED ARCHITECT
KENNETH SALTER
NO. C-19582
REN. 11-30-17
STATE OF CALIFORNIA

Designed:	DS	Project No.	3443001-302
Drawn:	VH,GS	Scale:	As indicated
QAQC	KS	Drawing No.	A1.1
Date:	10/18/17		

OVERALL SITE PLAN | A1 | 1" = 20'-0"

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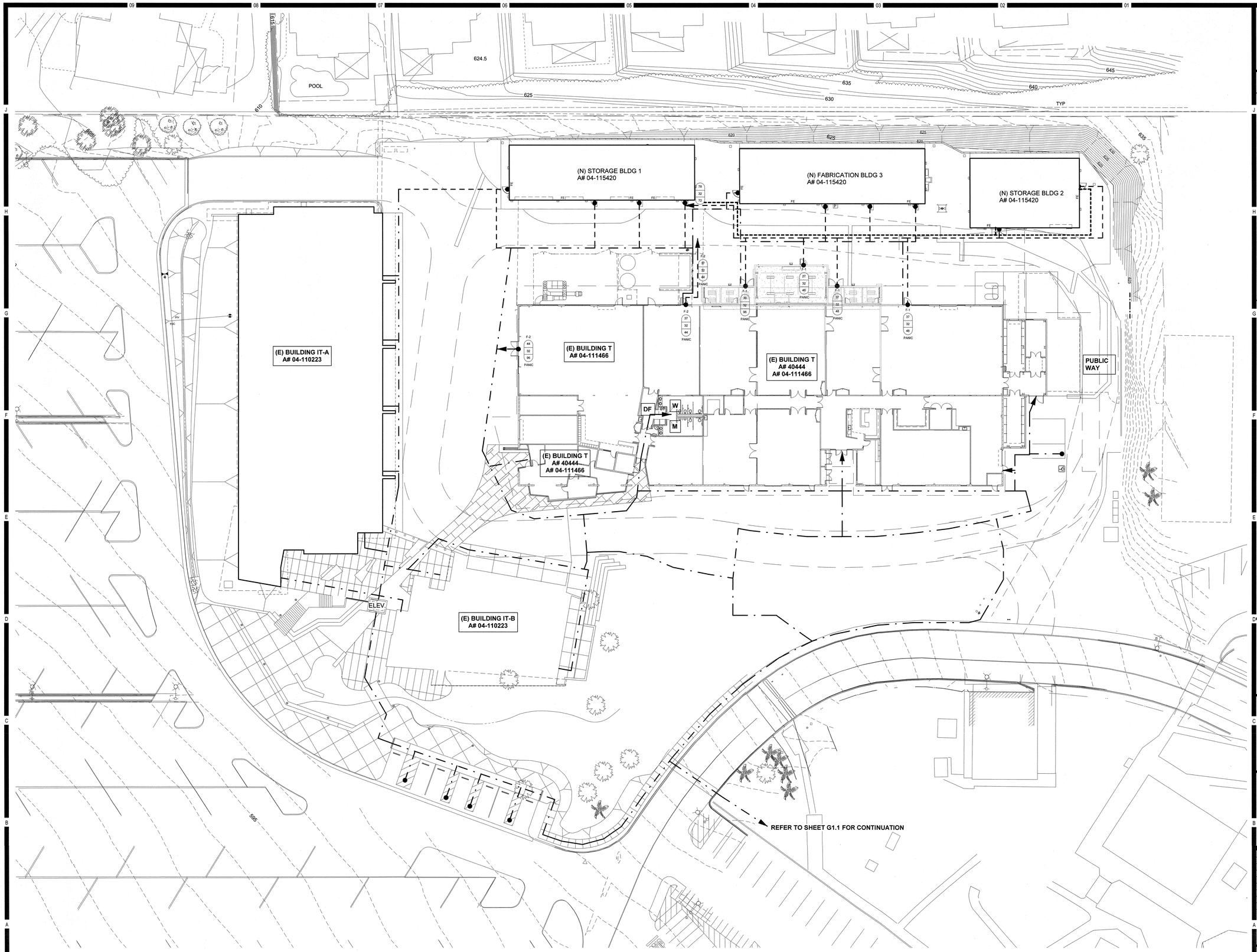

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SM

LEGEND

ROOM EXITING INFORMATION

ROOM NAME 101
- AREA (SQ FT)
- OCCUPANT LOAD FACTOR (PER TABLE 1004.1.2)
- OCCUPANT LOAD (AREA DIVIDED BY LOAF FACTOR)
- NUMBER OF EXITS REQUIRED (REFER TO TABLE 1015.1)

DOOR EXITING INFORMATION

- OCCUPANCY TYPE
- NUMBER OF OCCUPANTS EXITING THROUGH OPENING
- REQUIRED EXIT WIDTH
- PROVIDED EXIT WIDTH
- PANIC EXIT HARDWARE (WHERE OCCURS)

DOOR WIDTH:
39" CLEAR WIDTH OF DOOR ALLOWS 165 OCCUPANTS (39/0.2 = 195). NO SPACE OR COMBINATION OF SPACES ALONG THE EGRESS PATH OF TRAVEL HAS AN OCCUPANT LOAD EXCEEDING 195.

- PATH OF EGRESS TRAVEL
- (E) PATH OF TRAVEL (UNDER A#'S 04-109494, 04-110223, 04-110828, 04-111466, 04-113301)
- (N) PATH OF TRAVEL

Design Professional in General Responsible Charge Statement: The POT identified in these construction documents is compliant with the current applicable California Building Code accessibility provision for **path of travel requirements for alterations, additions and structural repairs.** As part of the design of this project, the POT was examined and any elements, components or portions of the POT that were determined to be noncompliant 1) have been identified and 2) the corrective work necessary to bring details, drawings and specifications incorporated into these construction documents. Any noncompliant elements, components or portions of the POT that will not be corrected by this project based on valuation threshold limitations or a finding of unreasonable hardship are so indicated in these construction documents.

During construction, if POT items within the scope of the project represented as code compliant are found to be nonconforming beyond reasonable construction tolerances, they shall be brought into compliance with the CBC as a part of this project by means of a construction change document.

Key Plan

Consultant Seal

Agency Approval FILE NO.37-C1

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Project Title

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1140 W. MISSION RD.,
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(760) 744-1150

No.	Description	Date

Drawing Title:
PATH OF TRAVEL

Architect's Seal
LICENSED ARCHITECT KENNETH SALYER NO. C-19382 11-30-17 STATE OF CALIFORNIA

Designed: Designer	Project No. 3443001-302
Drawn: Author	Scale: 1" = 20'-0"
QAQC Checker	Drawing No. A1.2
Date: 10/18/17	

SITE PLAN - PATH OF TRAVEL | A1
1" = 20'-0"

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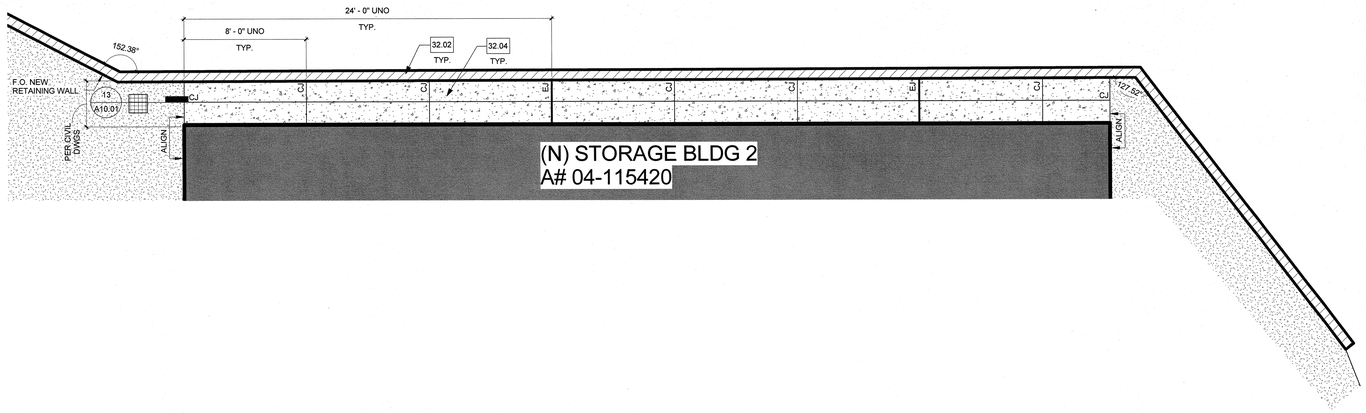
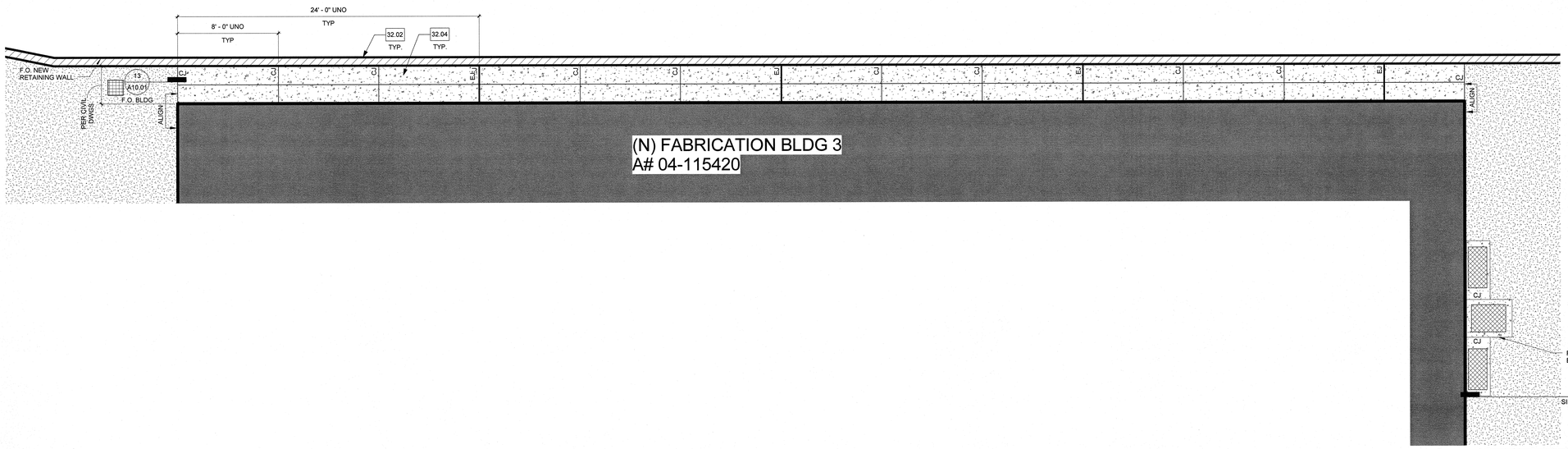
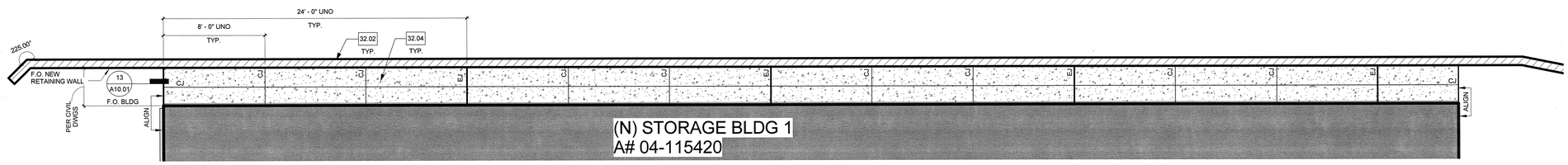


ENLARGED SITE PLAN - BLDG. 2 | 3 | 1/4" = 1'-0"



ENLARGED SITE PLAN - BLDG. 3 | 2 | 1/4" = 1'-0"



ENLARGED SITE PLAN - BLDG. 1 | 1 | 1/4" = 1'-0"

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KEYNOTES

NO.	NOTE - DETAIL
32.02	CMU RETAINING WALL - 6/A10.01
32.04	CONCRETE PAVING - 13/A10.01

LEGEND

- (N) STORAGE/ FABRICATION BLDGS
- (N) ASPHALT PAVING, SEE CIVIL
- (N) CONCRETE PAVING, SEE CIVIL
- EQUIPMENT CONC. PAD
- APPROXIMATE LIMIT LINE OF CONSTRUCTION. SOME DISCIPLINES MAY REQUIRE WORK OUTSIDE OF LIMIT LINE
- (N) CMU RETAINING WALL, SEE CIVIL & STRUCTURAL DWGS
- EJ — CONCRETE CONTROL JOINT @ 8'-0" O.C.
- CONCRETE EXPANSION JOINT @ 24'-0" O.C.

NOTES

1. REFER TO SHEET G0.1 FOR TYPICAL SYMBOLS AND ABBREVIATIONS
2. COORD. EXTENT OF (N) A.C. PAVING AREAS W/ CIVIL AND ELECTRICAL DWGS.
3. FOR EXTENT OF CMU WALL, REFER TO CIVIL DWGS, C3.1
4. FOR DRAIN LOCATIONS, REFER TO CIVIL DRAWINGS
5. COORDINATE LOCATION OF FIRE LANE SIGN WITH LOCAL FIRE MARSHALL
6. FOR BUILDINGS FF ELEVATION, REFER TO CIVIL DWGS, C3.0 & C3.1

NOTES:
1. FOR FIRE ACCESS SITE PLAN, REFER TO G1.2. FIRE LANE TO BE PAINTED THE EXTENT OF NEW FIRE ACCESS LANE SHOWN ON G1.2. REFER TO DETAIL 16/A10.81 - PAINT FIRE LANE ON ASPHALT PAVING AND CONC.CURB

2. COORDINATE KNOX BOXES LOCATION SHOWN ON G1.2 W/ LOCAL FIRE AUTHORITY. REFER TO DETAILS: 11/A10.01 12/A10.01

Key Plan

Consultant Seal

Agency Approval FILE NO.37-C1
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 04-115420
ACS JG FLS JG SSS KB
DATE OCT 18 2017

Project Title

PALOMAR COLLEGE
NEW STORAGE BUILDINGS
1140 W. MISSION RD.,
SAN MARCOS, CA 92069
(760) 744-1150

No.	Description	Date

Drawing Title:
ENLARGED SITE PLAN

Architect's Seal
LICENSED ARCHITECT KENNETH SALTER NO. C-19092 REN. 11-30-17 STATE OF CALIFORNIA

Designed:	Designer	Project No.	3443001-302
Drawn:	Author	Scale:	As indicated
QAQC	Checker	Drawing No.	A1.3
Date:	10/18/17		

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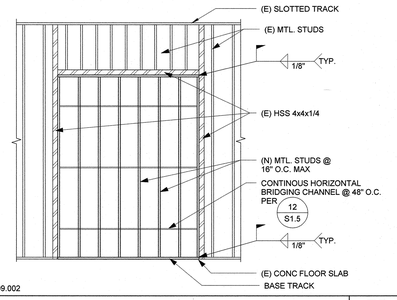
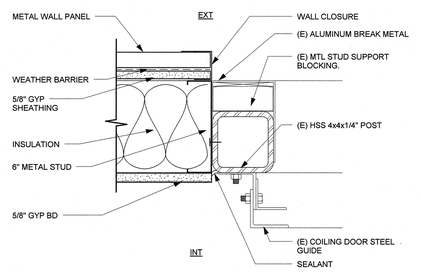


(N) INFILL STUD WALL | F5

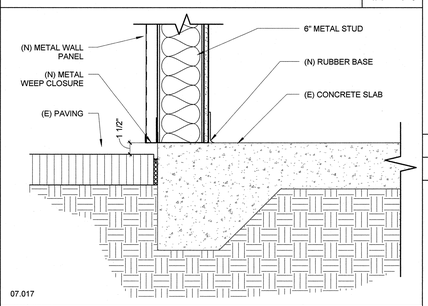
1/4" = 1'-0"

NOTE:
1. FOR ADDITIONAL INFORMATION REFER TO DTL. 18 / A10.11
2. FOR SILL CONNECTION REFER TO STRUCT DETAIL 1A / S1.5
3. FOR HEAD CONNECTIO, REFER TO STRUCT DETAIL 13 / S1.5 SIM.



(N) WALL INFILL @ (E) COLUMN/ COILING DOOR JAMB | D7

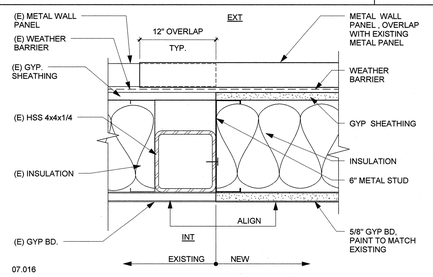
3" = 1'-0"



(N) WALL INFILL @ BASE | D5

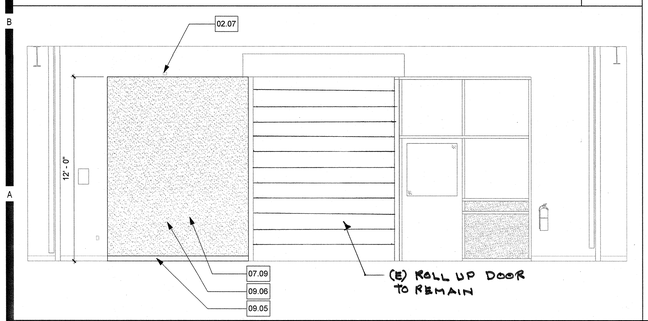
1 1/2" = 1'-0"

NOTE:
1. FOR ADDITIONAL INFORMATION REFER TO DTL. 18 / A10.11
2. FOR SILL CONNECTION REFER TO STRUCT DETAIL 1A / S1.5
3. FOR HEAD CONNECTIO, REFER TO STRUCT DETAIL 13 / S1.5 SIM.



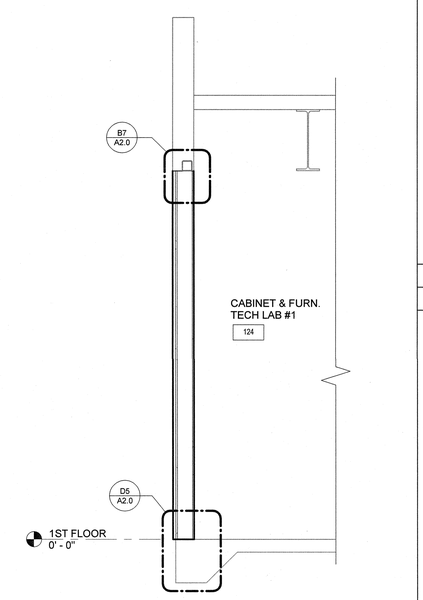
(N) WALL INFILL | B7

3" = 1'-0"



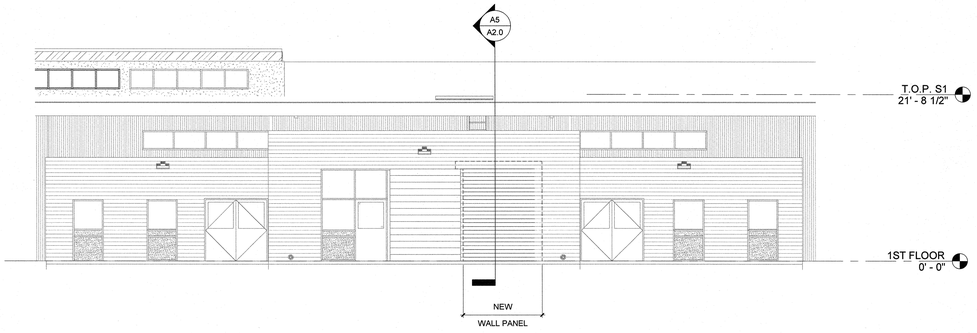
INTERIOR ELEVATION | A7

1/4" = 1'-0"



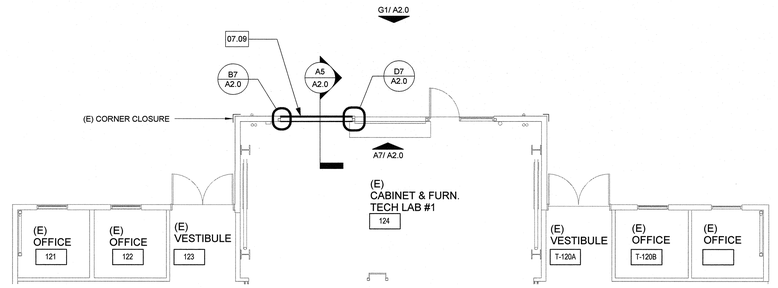
WALL SECTION | A5

1/2" = 1'-0"



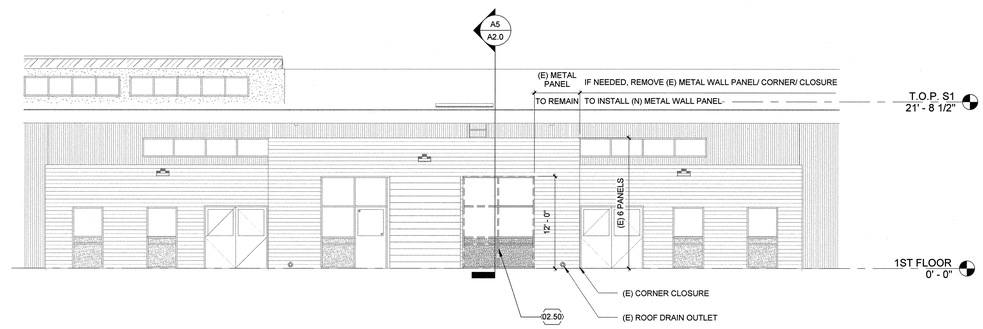
REMODEL NORTH ELEVATION | G1

1/8" = 1'-0"



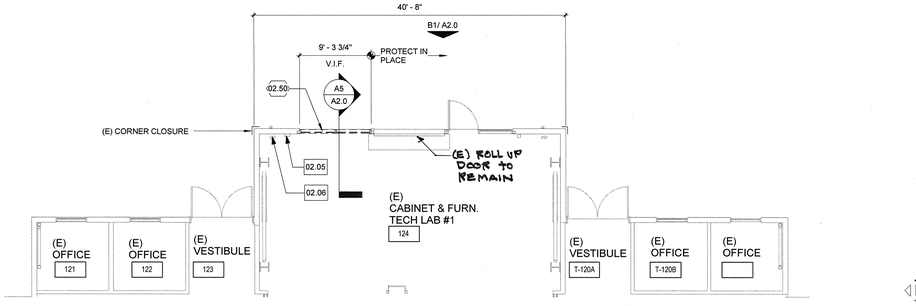
REMODEL FLOOR PLAN | E1

1/8" = 1'-0"



DEMO NORTH ELEVATION | B1

1/8" = 1'-0"



DEMO FLOOR PLAN | A1

1/8" = 1'-0"

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(SM)

XX DEMO KEYNOTES

NO.	NOTE - DETAIL
02.50	STOREFRONT

XX.XX ITEMS TO REMAIN

NO.	NOTE - DETAIL
02.05	(E) ROLL UP DOOR CONTROL/ DUPLEX OUTLET
02.06	(E) ROOF AND OVERFLOW DRAIN
02.07	(E) UNISTRUT

XX.XX KEYNOTES

NO.	NOTE - DETAIL
07.09	(N) INFILL METAL STUD WALL
09.05	RUBBER BASE
09.06	(N) GYPSUM BOARD (PAINT TO MATCH (E) WALL COLOR)

NOTES

1. FOR SCOPE OF WORK IN OFFICE T-120B, REFER TO DETAIL: 16 / A10.01

Consultant Seal

Agency Approval FILE NO.37-C1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 04-115420
ACS ____ FLS ____ SSS ____
DATE OCT 18 2017

Project Title

PALOMAR COLLEGE®
Learning for Success

PALOMAR COLLEGE
NEW STORAGE BUILDINGS
1140 W. MISSION RD.,
SAN MARCOS, CA 92069
(760) 744-1150

No.	Description	Date

Drawing Title:
BUILDING T - DEMO & REMODEL FLOOR PLANS AND ELEVATIONS

Architect's Seal

LICENSED ARCHITECT
KENNETH SAYER
NO. C-19382
11-30-17
STATE OF CALIFORNIA

Designed:	DS	Project No.	3443001-302
Drawn:	VH,GS	Scale:	As indicated
QAQC	KS,GS	Drawing No.	A2.0
Date:	10/18/17		

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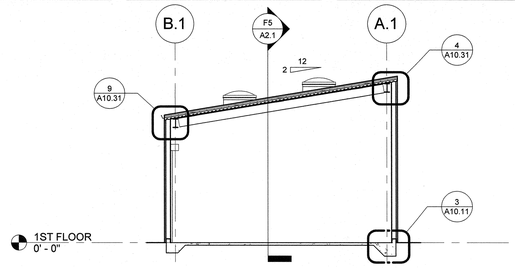
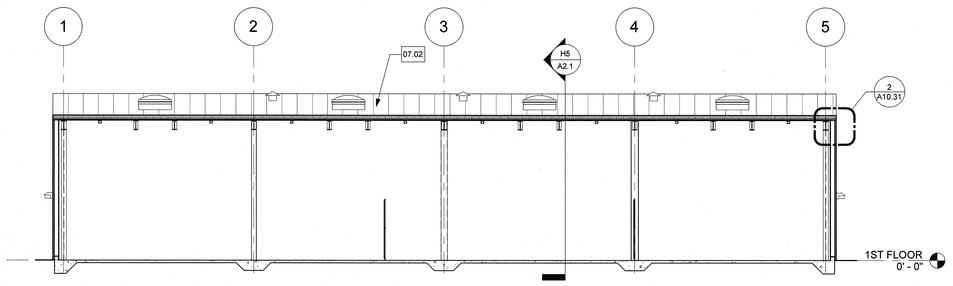


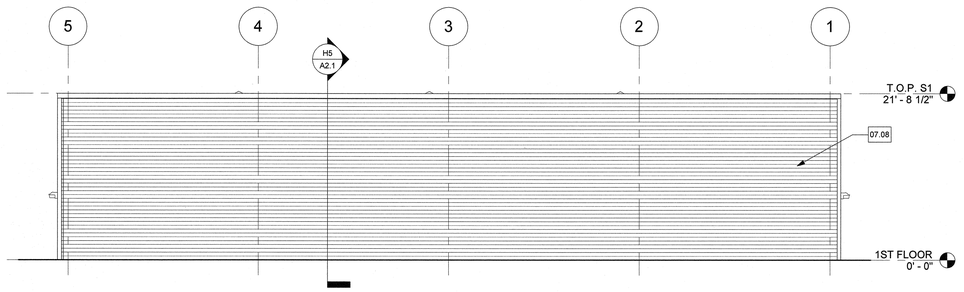
BUILDING SECTION H5

1/8" = 1'-0"



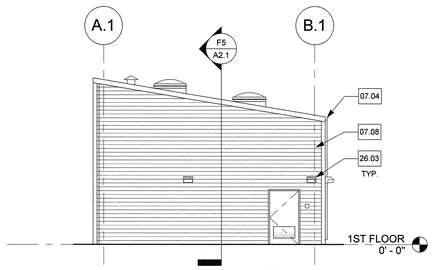
BUILDING SECTION F5

1/8" = 1'-0"



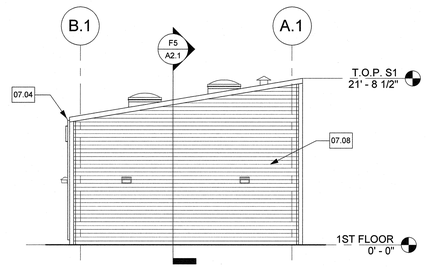
EXTERIOR ELEVATION BUILDING 1 - NORTH D5

1/8" = 1'-0"



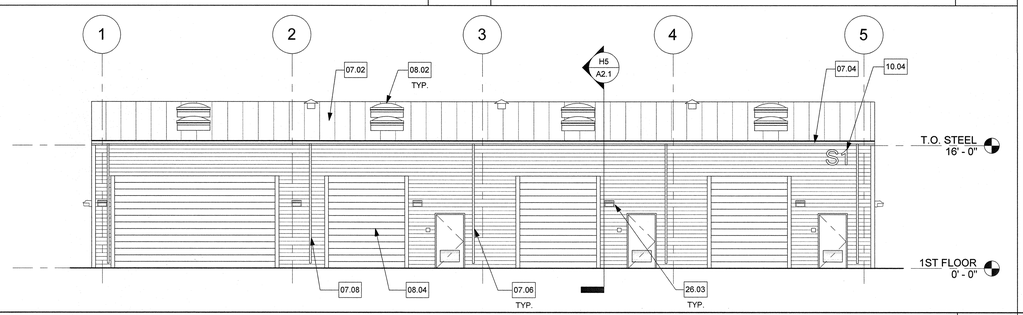
EXTERIOR ELEVATION BUILDING 1 - WEST B7

1/8" = 1'-0"



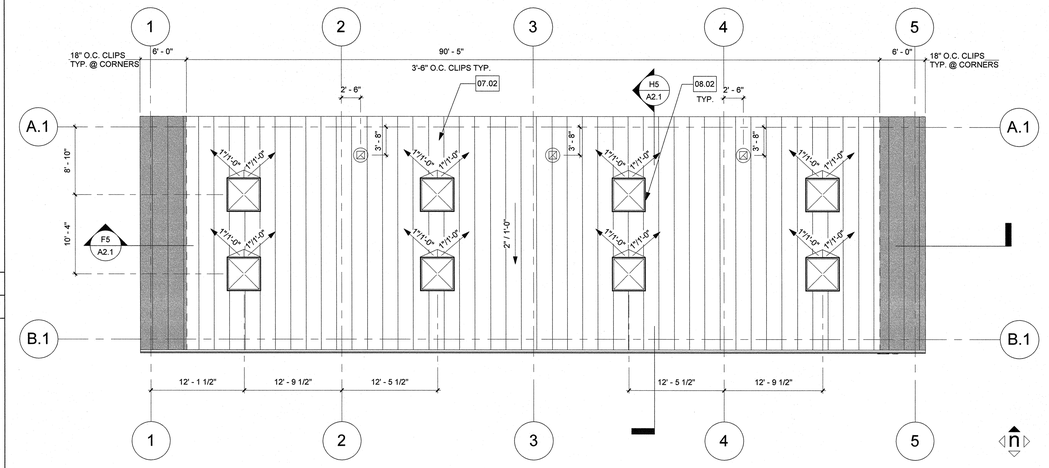
EXTERIOR ELEVATION BUILDING 1 - EAST B5

1/8" = 1'-0"



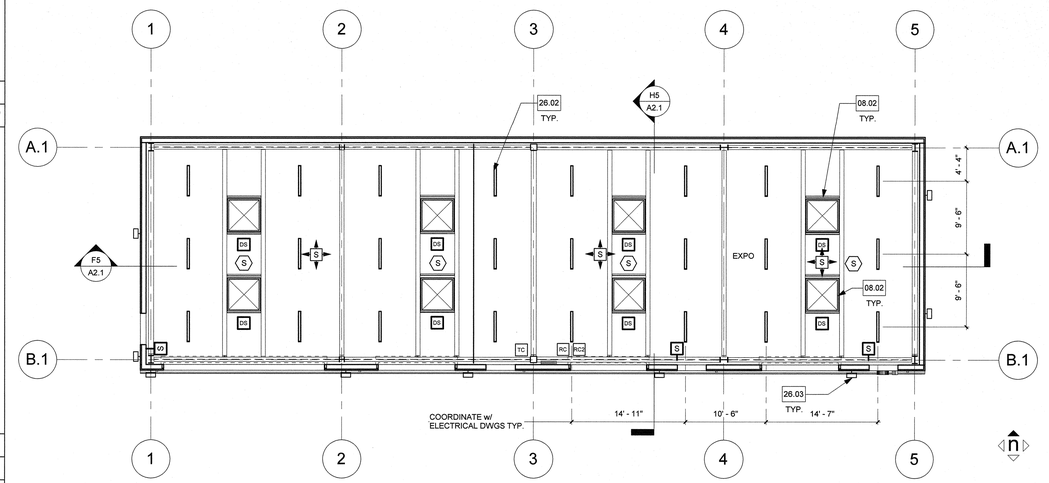
EXTERIOR ELEVATION BUILDING 1 - SOUTH A5

1/8" = 1'-0"



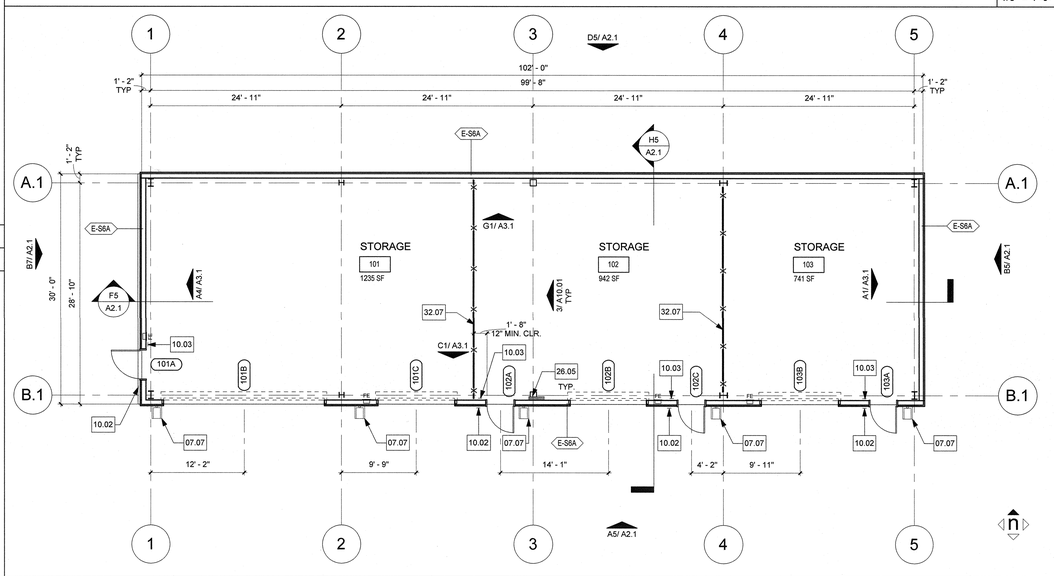
ROOF PLAN G1

1/8" = 1'-0"



CEILING PLAN D1

1/8" = 1'-0"



FLOOR PLAN A1

1/8" = 1'-0"

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(SM)

KEYNOTES

NO.	NOTE - DETAIL
07.02	METAL ROOFING PANEL ASSEMBLY - 1/A10.31
07.04	GUTTER - 9/A10.31
07.06	DOWNSPOUT - 11/A10.11
07.07	SPLASHBLOCKS AT DOWNSPOUT LOCATIONS - 10/A10.11
07.08	METAL WALL PANELS - 1 & 2/A10.11
08.02	48" X 48" SKYLIGHT - 6&8/A10.31
08.04	OVERHEAD COILING DOOR
10.02	TACTILE ROOM IDENTIFICATION SIGN - 2/A10.81
10.03	TACTILE EXIT SIGN - 13/A10.81
10.04	EXTERIOR BUILDING SIGNAGE - 22/A10.31
26.02	INTERIOR LIGHT FIXTURES, SEE ELEC DWGS & 21/A10.81
26.03	EXTERIOR LIGHT FIXTURES/ F.A HORN DEVICE, SEE ELEC DWGS & 21/A10.31
26.05	ELECTRICAL/ F.A PANEL, F.A DEVICES SEE ELEC DWGS
32.07	8' - 0" HIGH CHAIN LINK FENCE - 1/A10.01

FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION	DETAIL
	METAL STUD WALL	
FE	SEMI-RECESSED FIRE EXTINGUISHER CABINET OPERABLE LATCH @48" A.F.F.	PER 12 / A10-81
	30" x 48" ACCESSIBLE CLEAR SPACE	

CEILING / ROOF PLAN LEGEND

SYMBOL	DESCRIPTION	
EXPO	NO CEILING - EXPOSED TO STRUCTURE ABOVE	
(INTERIOR) (EXTERIOR)	LIGHTING FIXTURES	SEE ELEC DWGS
D8	MOUNT DAYLIGHT SENSOR	SEE ELEC DWGS
S	SEPERATE SWITCHING FOR TASK LIGHTING	SEE ELEC DWGS
S	MOUNT SENSOR	SEE ELEC DWGS
TC	TIME CLOCK	SEE ELEC DWGS
RC	TO CONTROL ZONE 'a'	SEE ELEC DWGS
RCH	TO CONTROL ZONES 'b' and 'C' SEPARATELY	SEE ELEC DWGS
S	CEILING MOUNTED SMOKE DETECTOR	SEE ELEC DWGS
H	CEILING MOUNTED HEAT DETECTOR	SEE ELEC DWGS
	48" x 48" SKYLIGHT	
	ROOF EXHAUST FAN	SEE ELEC DWGS
	ELECTRICAL/ F.A. PANEL	SEE ELEC DWGS

NOTES

1. REFER TO SHEET G0.1 FOR TYPICAL SYMBOLS AND ABBREVIATIONS.
2. ALL DIMENSIONS ARE TO FOS OR CENTER LINE OF STEEL UNLESS NOTED OTHERWISE.
3. FOR FLOOR ELEVATIONS, REFER TO CIVIL DRAWINGS.
4. FOR FINISHES, REFER TO SCHEDULES, SHEET A4.1.
5. FOR WALL TYPES, REFER TO SHEET A10.11
6. FOR DOOR CLEARANCE REQUIREMENTS, REFER TO DETAIL 1 / A10.81
7. REFER TO SHEET A4.1 FOR DOOR SCHEDULES AND FRAME TYPES.
8. PROVIDE 6" CONC CURB AT ALL PERIMETER WALLS, (EXCEPT AT DOOR OPENINGS). REFER TO STRUCTURAL DETAIL 1A/S1.5

FLOOR FINISH LEGEND

CONC1, REFER TO SPEC SECTION 09 06 00 SCHEDULE FOR FINISHES

Consultant Seal

Agency Approval FILE NO.337-C1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 04-115420
ACS FLS SSS
DATE OCT 1 0 2017

Project Title

PALOMAR COLLEGE®
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PALOMAR COLLEGE
NEW STORAGE BUILDINGS
1140 W. MISSION RD.,
SAN MARCOS, CA 92069
(760) 744-1150

No.	Description	Date

Drawing Title:
STORAGE BUILDING 1 - PLANS, ELEVATIONS, AND SECTIONS

Architect's Seal

LICENSED ARCHITECT
KENNETH SALYER
NO. C-19090
REN. 11-30-17
STATE OF CALIFORNIA

Designed:	DS	Project No.	3443001-302
Drawn:	VH,GS	Scale:	As indicated
QA/QC:	KS, GS	Drawing No.	A2.1
Date:	10/18/17		

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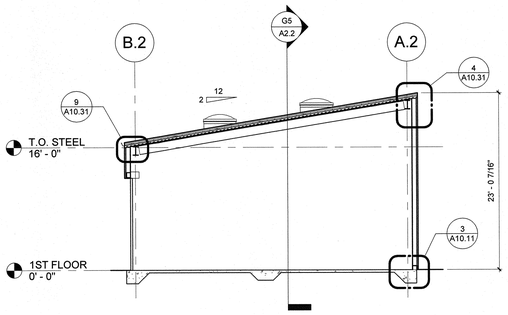
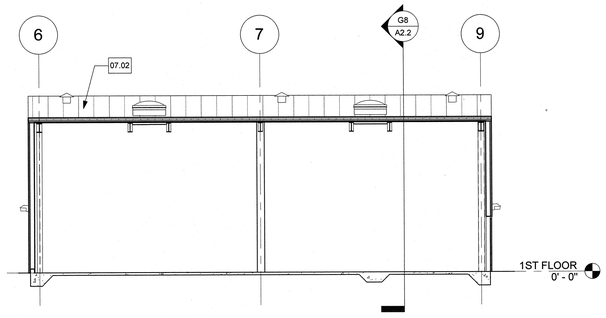
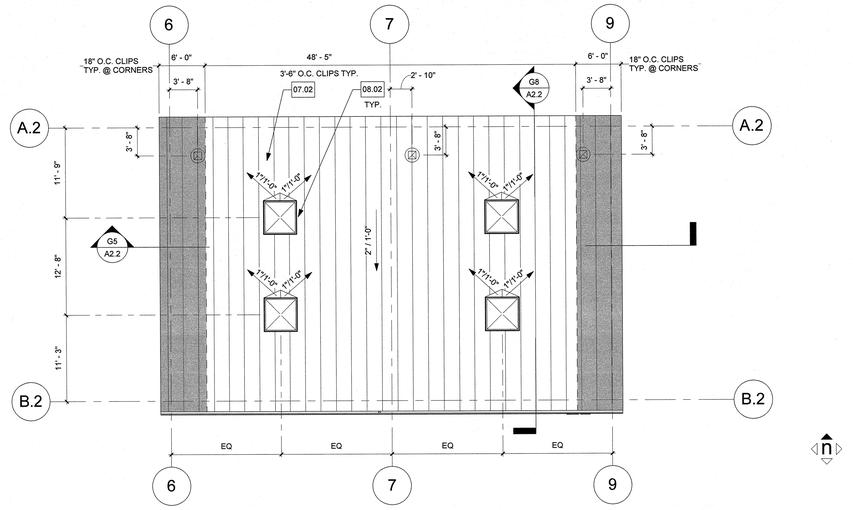


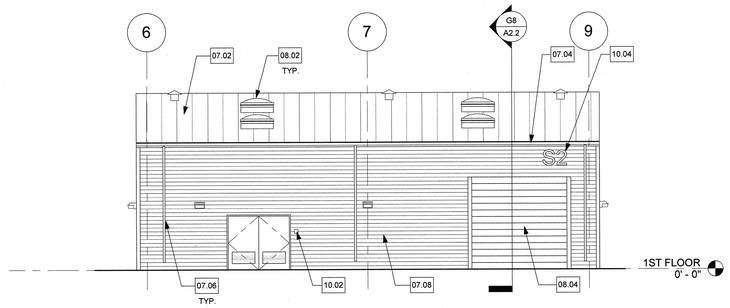
BUILDING SECTION | G8 | 1/8" = 1'-0"



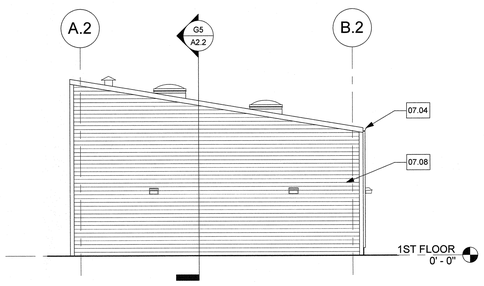
BUILDING SECTION | G5 | 1/8" = 1'-0"



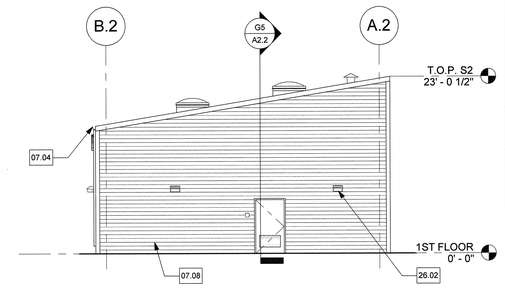
ROOF PLAN | G1 | 1/8" = 1'-0"



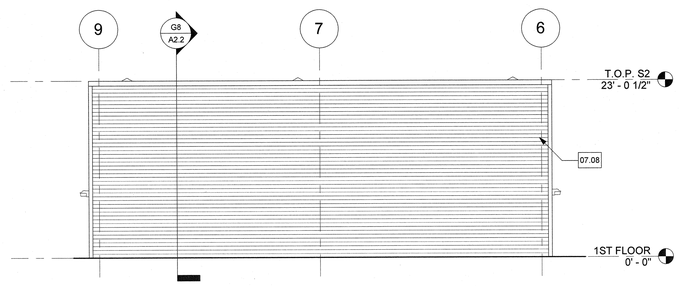
EXTERIOR ELEVATION BUILDING 2 - SOUTH | D5 | 1/8" = 1'-0"



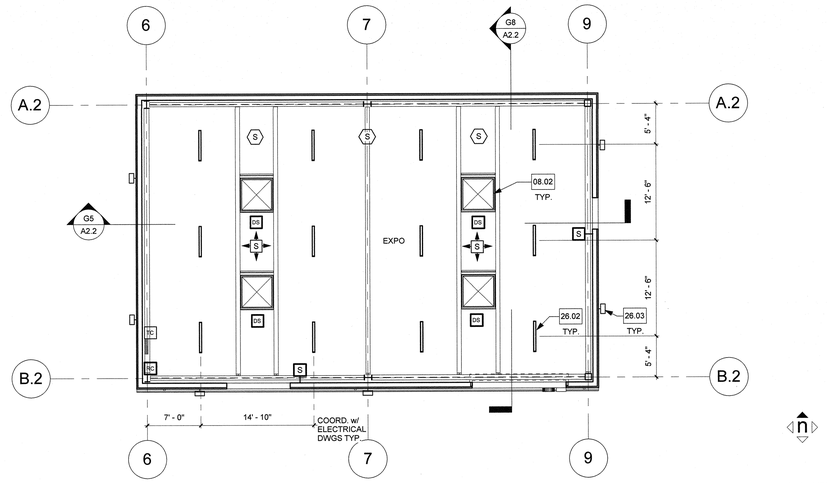
EXTERIOR ELEVATION BUILDING 2 - WEST | B7 | 1/8" = 1'-0"



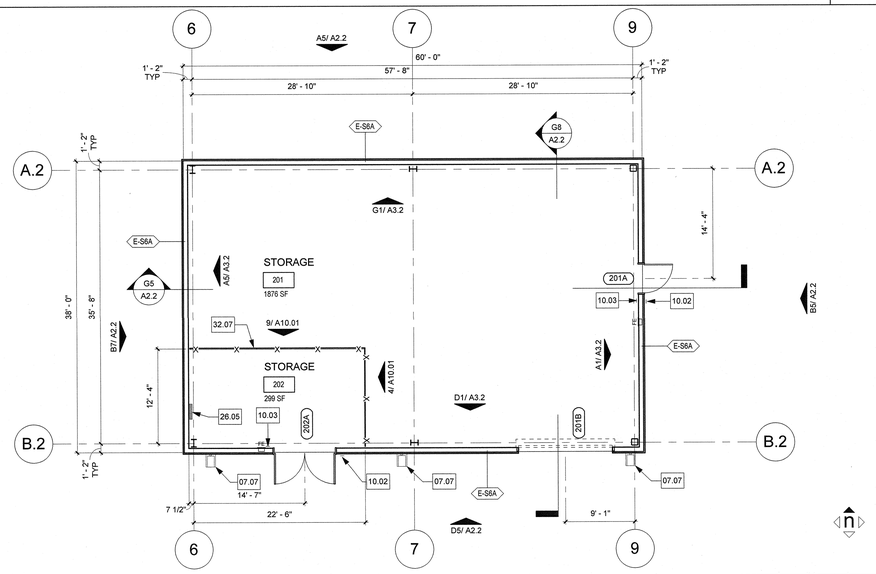
EXTERIOR ELEVATION BUILDING 2 - EAST | B5 | 1/8" = 1'-0"



EXTERIOR ELEVATION BUILDING 2 - NORTH | A5 | 1/8" = 1'-0"



CEILING PLAN | D1 | 1/8" = 1'-0"



FLOOR PLAN | A1 | 1/8" = 1'-0"

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KEYNOTES

NO.	NOTE - DETAIL
07.02	METAL ROOFING PANEL ASSEMBLY - 1/A10.31
07.04	GUTTER - 9/A10.31
07.06	DOWNSPOUT - 11/A10.11
07.07	SPLASHBLOCKS AT DOWNSPOUT LOCATIONS - 10/A10.11
07.08	METAL WALL PANELS - 1 & 2/A10.11
08.02	48" X 48" SKYLIGHT - 6&8/A10.31
08.04	OVERHEAD COILING DOOR
10.02	TACTILE ROOM IDENTIFICATION SIGN - 2/A10.81
10.03	TACTILE EXIT SIGN - 13/A10.81
10.04	EXTERIOR BUILDING SIGNAGE - 22/A10.31
26.02	INTERIOR LIGHT FIXTURES, SEE ELEC DWGS & 21/A10.81
26.03	EXTERIOR LIGHT FIXTURES/ F.A HORN DEVICE, SEE ELEC DWGS & 21/A10.31
26.05	ELECTRICAL/ F.A PANEL, F.A DEVICES SEE ELEC DWGS
32.07	8' - 0" HIGH CHAIN LINK FENCE - 1/A10.01

FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION	DETAIL
	METAL STUD WALL	
FE	SEMI-RECESSED FIRE EXTINGUISHER CABINET OPERABLE LATCH @48" A.F.F.	PER 12 / A10-81
	30" x 48" ACCESSIBLE CLEAR SPACE	

CEILING / ROOF PLAN LEGEND

SYMBOL	DESCRIPTION	
EXPO	NO CEILING - EXPOSED TO STRUCTURE ABOVE	
(EXTERIOR) / (INTERIOR)	LIGHTING FIXTURES	SEE ELEC DWGS
DS	MOUNT DAYLIGHT SENSOR	SEE ELEC DWGS
S	SEPERATE SWITCHING FOR TASK LIGHTING	SEE ELEC DWGS
S	MOUNT SENSOR	SEE ELEC DWGS
TC	TIME CLOCK	SEE ELEC DWGS
RC	TO CONTROL ZONE 'a'	SEE ELEC DWGS
RC-2	TO CONTROL ZONES 'b' and 'C' SEPARATELY	SEE ELEC DWGS
S	CEILING MOUNTED SMOKE DETECTOR	SEE ELEC DWGS
H	CEILING MOUNTED HEAT DETECTOR	SEE ELEC DWGS
	48" x 48" SKYLIGHT	
	ROOF EXHAUST FAN	SEE ELEC DWGS
	ELECTRICAL/ F.A. PANEL	SEE ELEC DWGS

NOTES

1. REFER TO SHEET G0.1 FOR TYPICAL SYMBOLS AND ABBREVIATIONS.
2. ALL DIMENSIONS ARE TO FOS OR CENTER LINE OF STEEL UNLESS NOTED OTHERWISE.
3. FOR FLOOR ELEVATIONS, REFER TO CIVIL DRAWINGS.
4. FOR FINISHES, REFER TO SCHEDULES, SHEET A4.1.
5. FOR WALL TYPES, REFER TO SHEET A10.11
6. FOR DOOR CLEARANCE REQUIREMENTS, REFER TO DETAIL 1 / A10.81
7. REFER TO SHEET A4.1 FOR DOOR SCHEDULES AND FRAME TYPES.
8. PROVIDE 6" CONC CURB AT ALL PERIMETER WALLS, (EXCEPT AT DOOR OPENINGS). REFER TO STRUCTURAL DETAIL 1A/S1.5

FLOOR FINISH LEGEND

CONC1, REFER TO SPEC SECTION 09 06 00 SCHEDULE FOR FINISHES

Consultant Seal

Agency Approval FILE NO.37-C1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 04-115420
ACS DS FLS HE SSS KS
DATE OCT 18 2017

Project Title

PALOMAR COLLEGE®
Learning for Success

PALOMAR COLLEGE
NEW STORAGE BUILDINGS
1140 W. MISSION RD.,
SAN MARCOS, CA 92069
(760) 744-1150

No.	Description	Date

Drawing Title:
STORAGE BUILDING 2 - PLANS, ELEVATIONS AND SECTIONS

Architect's Seal
LICENSED ARCHITECT KENNETH SAITEE NO. C-19092 REN. 11-30-19 STATE OF CALIFORNIA

Designed:	DS	Project No.	3443001-302
Drawn:	VH,GS	Scale:	As indicated
QAQC	KS	Drawing No.	A2.2
Date:	10/18/17		

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10/18/2017 9:43:42 AM

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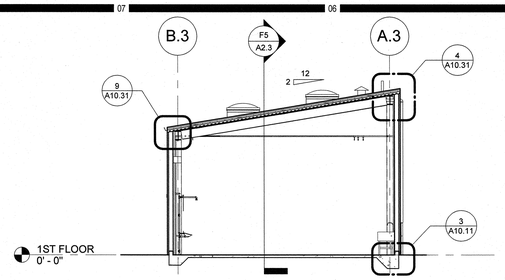
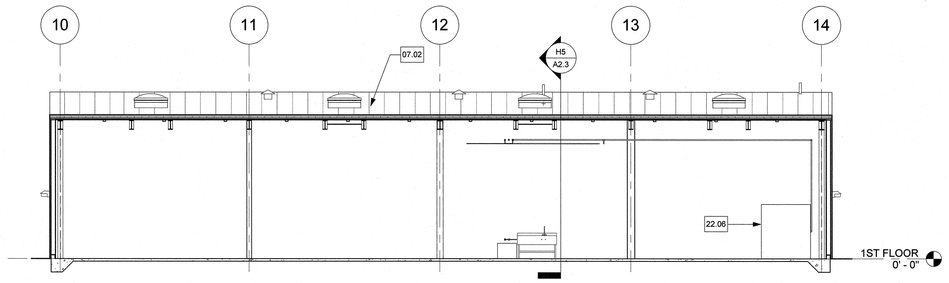
DSA APPROVAL



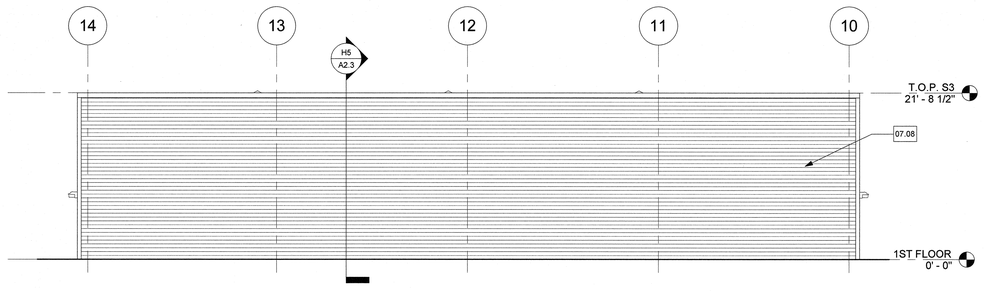
BUILDING SECTION | H5

1/8" = 1'-0"



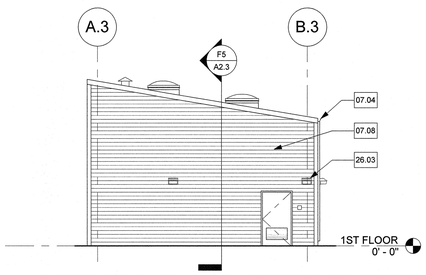
BUILDING SECTION | F5

1/8" = 1'-0"



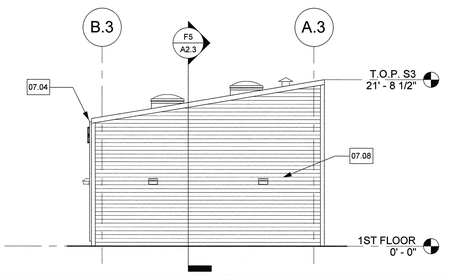
EXTERIOR ELEVATION BUILDING 3 - NORTH | D5

1/8" = 1'-0"



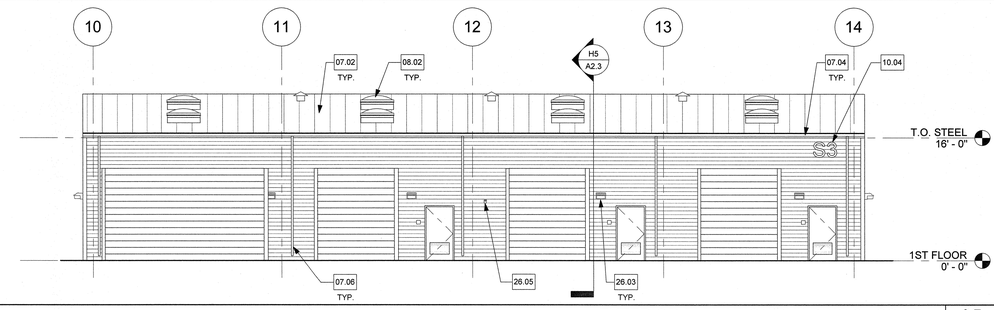
EXTERIOR ELEVATION BUILDING 3 - WEST | B7

1/8" = 1'-0"



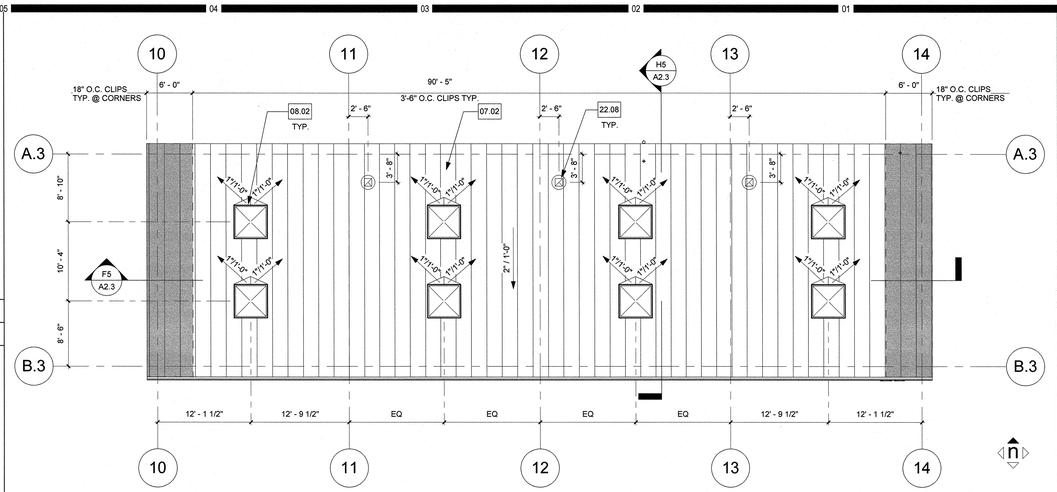
EXTERIOR ELEVATION BUILDING 3 - EAST | B5

1/8" = 1'-0"



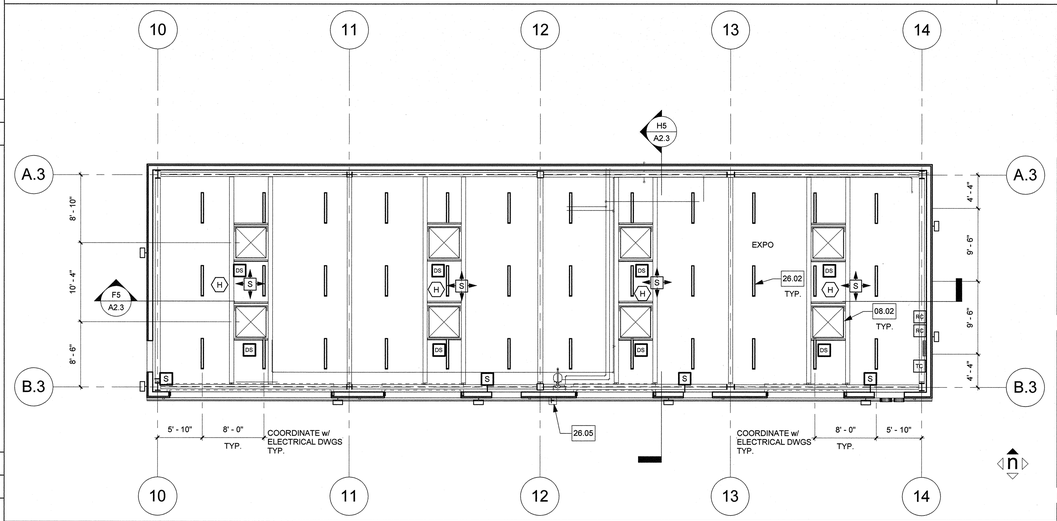
EXTERIOR ELEVATION BUILDING 3 - SOUTH | A5

1/8" = 1'-0"



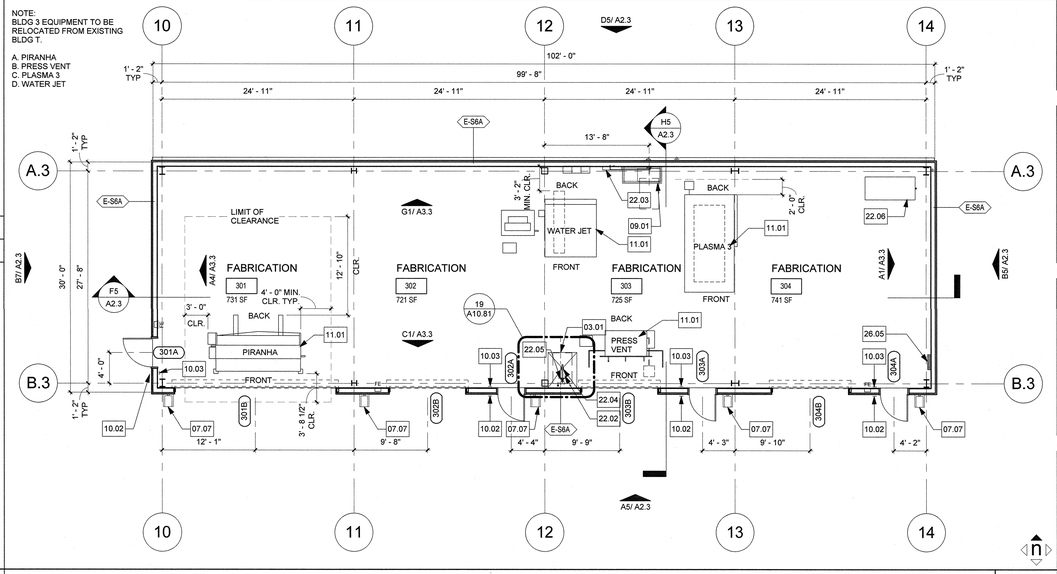
ROOF PLAN | G1

1/8" = 1'-0"



CEILING PLAN | D1

1/8" = 1'-0"



FLOOR PLAN | A1

1/8" = 1'-0"

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(SM)

KEYNOTES

NO.	NOTE - DETAIL
03.01	SLOPED FLOOR DEPRESSION
07.02	METAL ROOFING PANEL ASSEMBLY - 1/A10.31
07.04	GUTTER - 9/A10.31
07.06	DOWNSPOUT - 11/A10.11
07.07	SPLASHBLOCKS AT DOWNSPOUT LOCATIONS - 10/A10.11
07.08	METAL WALL PANELS - 1 & 2/A10.11
08.02	48" X 48" SKYLIGHT - 6&8/A10.31
09.01	FRP 5/A10.11, 3/A10.21, 11/A10.21
10.02	TACTILE ROOM IDENTIFICATION SIGN - 2/A10.81
10.03	TACTILE EXIT SIGN - 13/A10.81
10.04	EXTERIOR BUILDING SIGNAGE - 22/A10.31
11.01	EQUIPMENT - PER ANCHORAGE DTL. 23/A10.81
22.02	ACCESSIBLE COMBINATION EMERGENCY EYE WASH AND SHOWER
22.03	WATER HEATER
22.04	FLOOR DRAIN, SEE PLUMBING DWGS
22.05	DECONTAMINATION SHOWER/ EYEWASH
22.06	AIR COMPRESSOR ON CONC. PAD, SEE PLUMBING/ STRUCT. DWGS
22.08	ROOF EXHAUST FAN - 3/A10.31
26.02	INTERIOR LIGHT FIXTURES, SEE ELEC DWGS & 21/A10.81
26.03	EXTERIOR LIGHT FIXTURES/ F.A HORN DEVICE, SEE ELEC DWGS & 21/A10.31
26.05	ELECTRICAL/ F.A PANEL, F.A DEVICES SEE ELEC DWGS

FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION	DETAIL
	METAL STUD WALL	
FE	SEMI-RECESSED FIRE EXTINGUISHER CABINET OPERABLE LATCH @48" A.F.F.	PER 12 / A10-81
	30" x 48" ACCESSIBLE CLEAR SPACE	

CEILING / ROOF PLAN LEGEND

SYMBOL	DESCRIPTION	
EXPO	NO CEILING - EXPOSED TO STRUCTURE ABOVE	
(INTERIOR) (EXTERIOR)	LIGHTING FIXTURES	SEE ELEC DWGS
D5	MOUNT DAYLIGHT SENSOR	SEE ELEC DWGS
S	SEPERATE SWITCHING FOR TASK LIGHTING	SEE ELEC DWGS
S	MOUNT SENSOR	SEE ELEC DWGS
TC	TIME CLOCK	SEE ELEC DWGS
RC	TO CONTROL ZONE 'a'	SEE ELEC DWGS
RC2	TO CONTROL ZONES 'b' and 'C' SEPARATELY	SEE ELEC DWGS
S	CEILING MOUNTED SMOKE DETECTOR	SEE ELEC DWGS
H	CEILING MOUNTED HEAT DETECTOR	SEE ELEC DWGS
	48" x 48" SKYLIGHT	
	ROOF EXHAUST FAN	SEE ELEC DWGS
	ELECTRICAL/ F.A. PANEL	SEE ELEC DWGS

NOTES

1. REFER TO SHEET G0.1 FOR TYPICAL SYMBOLS AND ABBREVIATIONS.
2. ALL DIMENSIONS ARE TO FOS OR CENTER LINE OF STEEL UNLESS NOTED OTHERWISE.
3. FOR FLOOR ELEVATIONS, REFER TO CIVIL DRAWINGS.
4. FOR FINISHES, REFER TO SCHEDULES, SHEET A4.1.
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7. REFER TO SHEET A4.1 FOR DOOR SCHEDULES AND FRAME TYPES.
8. PROVIDE 6" CONC CURB AT ALL PERIMETER WALLS, (EXCEPT AT DOOR OPENINGS). REFER TO STRUCTURAL DETAIL 1A/S1.5

FLOOR FINISH LEGEND

CONC1, REFER TO SPEC SECTION 09 06 00 SCHEDULE FOR FINISHES

Consultant Seal

Agency Approval FILE NO.37-C1

IDENTIFICATION STAMP
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APPL. 04-115420
ACS JS FLS HZ SSS KB
DATE OCT 18 2017

Project Title

PALOMAR COLLEGE®
Learning for Success

PALOMAR COLLEGE
NEW STORAGE BUILDINGS
1140 W. MISSION RD.,
SAN MARCOS, CA 92069
(760) 744-1150

No.	Description	Date

Drawing Title:

FABRICATION BUILDING 3 - PLANS, ELEVATIONS AND SECTIONS

Architect's Seal

LICENSED ARCHITECT
KENNETH SAYER
NO. C-19382
REN 11-30-2017
STATE OF CALIFORNIA

Designer:	Designer	Project No.	3443001-302
Drawn:	Author	Scale:	As indicated
QA/QC	Checker	Drawing No.	A2.3
Date:	10/18/17		

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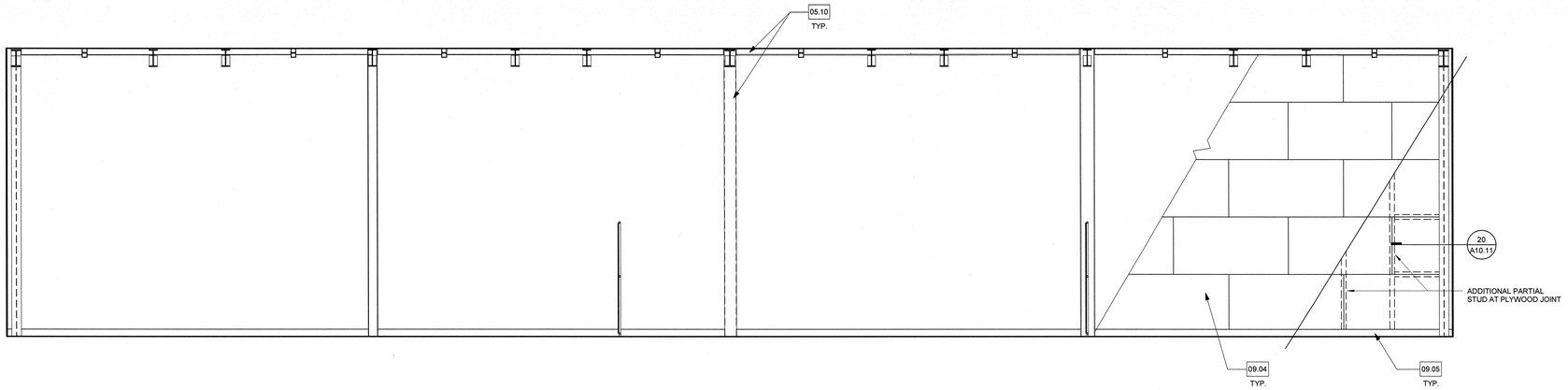
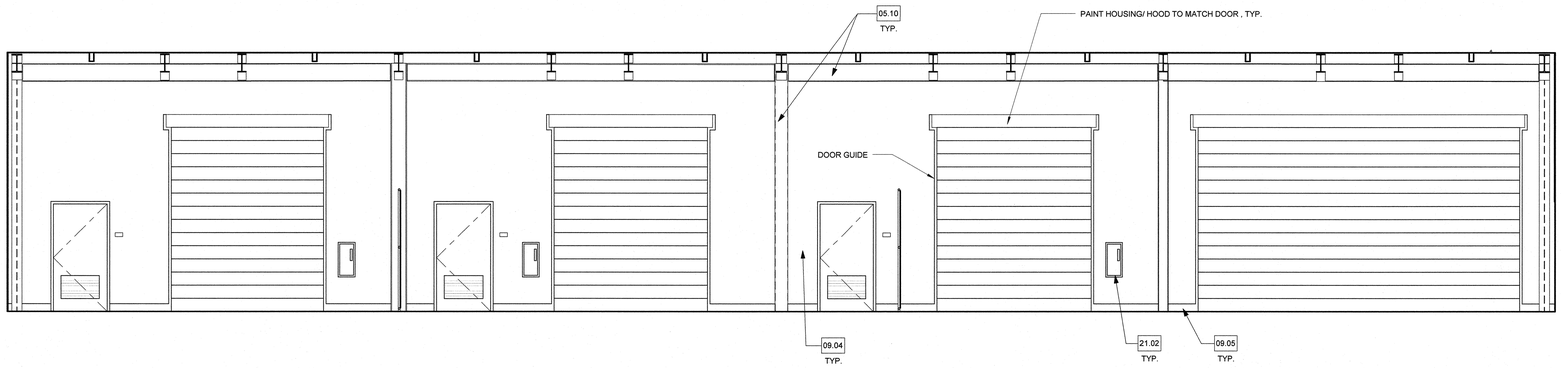
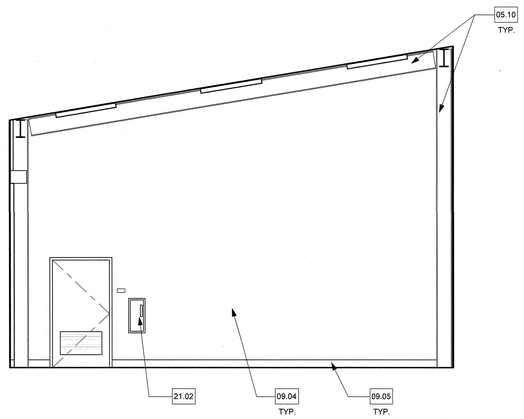


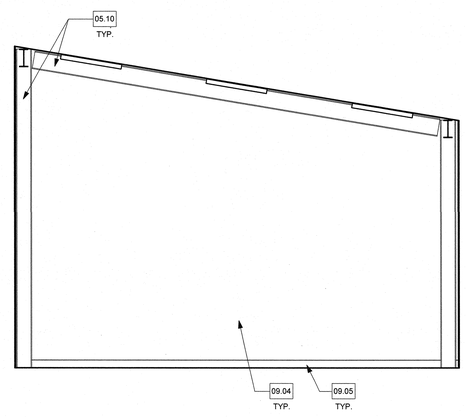
STORAGE BUILDING 1 - NORTH INTERIOR ELEVATION — G1 — 1/4" = 1'-0"



STORAGE BUILDING 1 - SOUTH INTERIOR ELEVATION — C1 — 1/4" = 1'-0"



STORAGE BUILDING 1 - WEST INTERIOR ELEVATION — A4 — 1/4" = 1'-0"



STORAGE BUILDING 1 - EAST INTERIOR ELEVATION — A1 — 1/4" = 1'-0"

HMC Architects
3546 Concours Street / Ontario, CA 91764
T 909 989 9979 / www.hmcarchitects.com

KEYNOTES

NO.	NOTE - DETAIL
05.10	PAINTED STEEL STRUCTURE
09.04	PAINTED PLYWOOD
09.05	RUBBER BASE
21.02	FIRE EXTINGUISHER - 12/A10.81

NOTES

1. REFER TO SHEET G0.1 FOR TYPICAL SYMBOLS AND ABBREVIATIONS
2. FOR ADDITIONAL INFORMATION REFER TO A 4.1
3. EXTEND RUBBER BASE BEHIND STL. COLUMNS
4. SEE SHEET G1/ A3.1 FOR PLYWOOD APPLICATION

Consultant Seal

Agency Approval FILE NO.37-C1
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Project Title

PALOMAR COLLEGE
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SAN MARCOS, CA 92069
(760) 744-1150

No.	Description	Date

Drawing Title:
STORAGE BUILDING 1 - INTERIOR ELEVATIONS

Architect's Seal
LICENSED ARCHITECT KENNETH SALYER NO. C-19082 REN. 11-30-17 STATE OF CALIFORNIA

Designed:	DS	Project No.	3443001-302
Drawn:	VH, GS	Scale:	As indicated
QAQC	KS	Drawing No.	A3.1
Date:	10/18/17		

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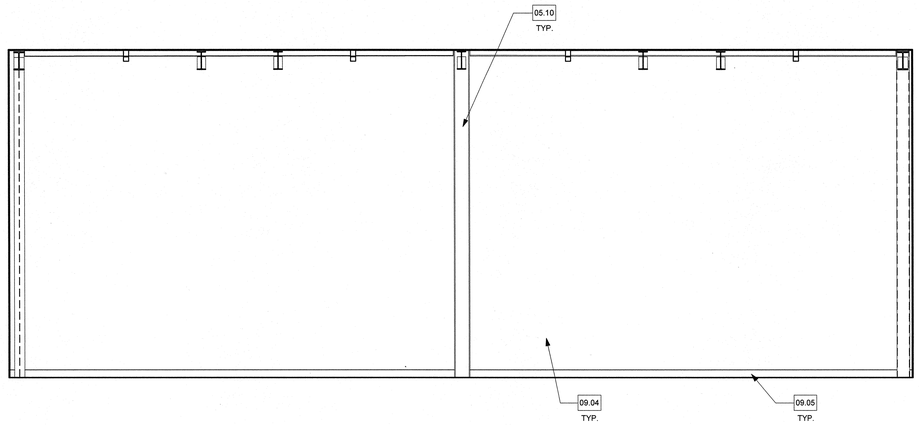
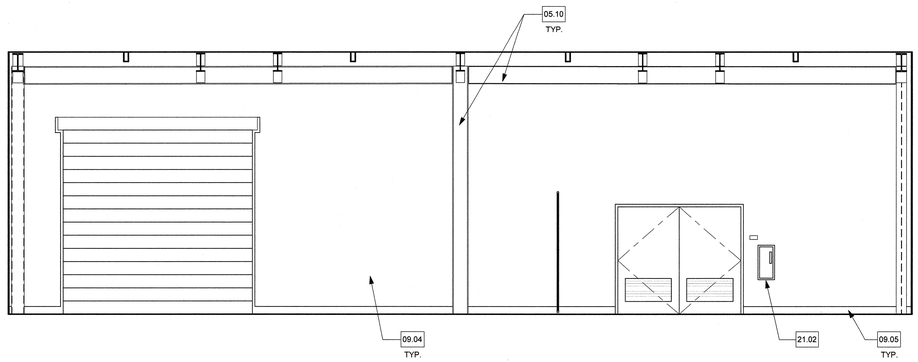
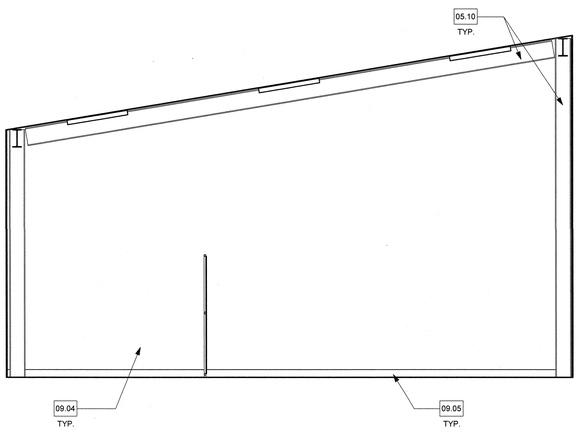


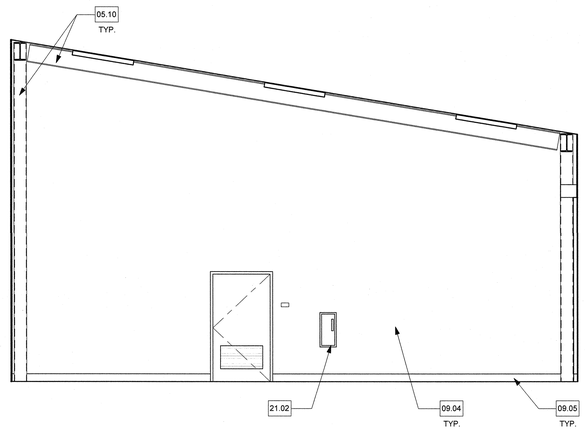
STORAGE BUILDING 2 - NORTH INTERIOR ELEVATION — G1 — 1/4" = 1'-0"



STORAGE BUILDING 2 - SOUTH INTERIOR ELEVATION — D1 — 1/4" = 1'-0"



STORAGE BUILDING 2 - WEST INTERIOR ELEVATION — A5 — 1/4" = 1'-0"



STORAGE BUILDING 2 - EAST INTERIOR ELEVATION — A1 — 1/4" = 1'-0"

KEYNOTES

NO.	NOTE - DETAIL
05.10	PAINTED STEEL STRUCTURE
09.04	PAINTED PLYWOOD
09.05	RUBBER BASE
21.02	FIRE EXTINGUISHER - 12/A10.81

NOTES

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2. FOR ADDITIONAL INFORMATION REFER TO A 4.1
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4. SEE SHEET G1/ A3.1 FOR PLYWOOD APPLICATION

HMC Architects
3546 Concours Street / Ontario, CA 91764
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Consultant Seal

Agency Approval FILE NO.37-C1
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 04-115420
ACS ☑ FLS ☑ SSS KS
DATE OCT 16 2017

Project Title
PALOMAR COLLEGE
Learning for Success
PALOMAR COLLEGE
NEW STORAGE BUILDINGS
1140 W. MISSION RD.,
SAN MARCOS, CA 92069
(760) 744-1150

No.	Description	Date

Drawing Title:
STORAGE BUILDING 2 - INTERIOR ELEVATIONS

Architect's Seal
LICENSED ARCHITECT KENNETH SALTER NO. C-19082 REN. 11-30-19 STATE OF CALIFORNIA

Designed:	DS	Project No.	3443001-302
Drawn:	VH, GS	Scale:	As indicated
QA/QC	KS	Drawing No.	A3.2
Date:	10/18/17		

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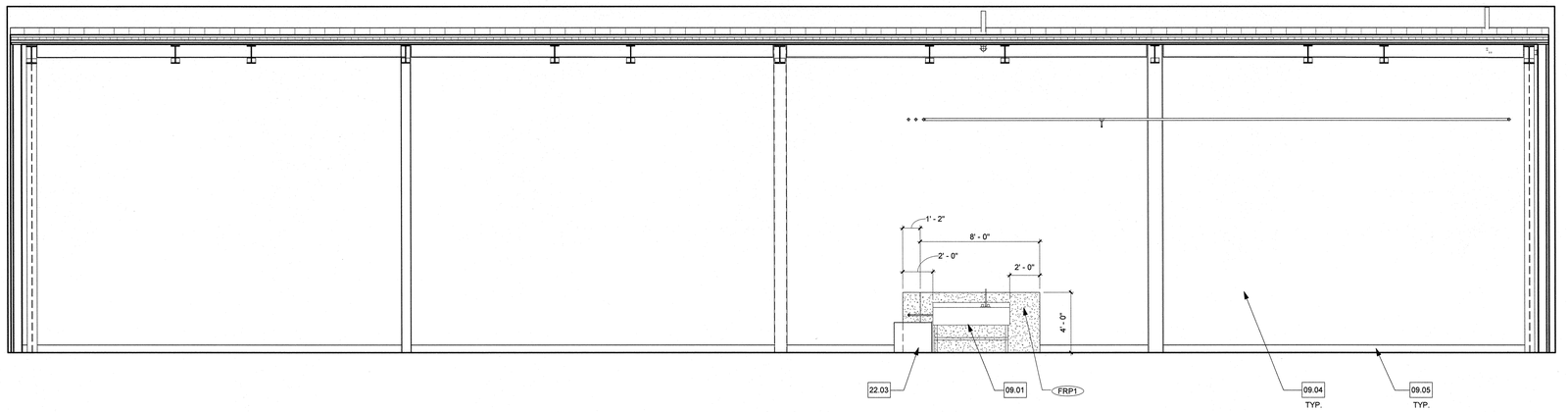
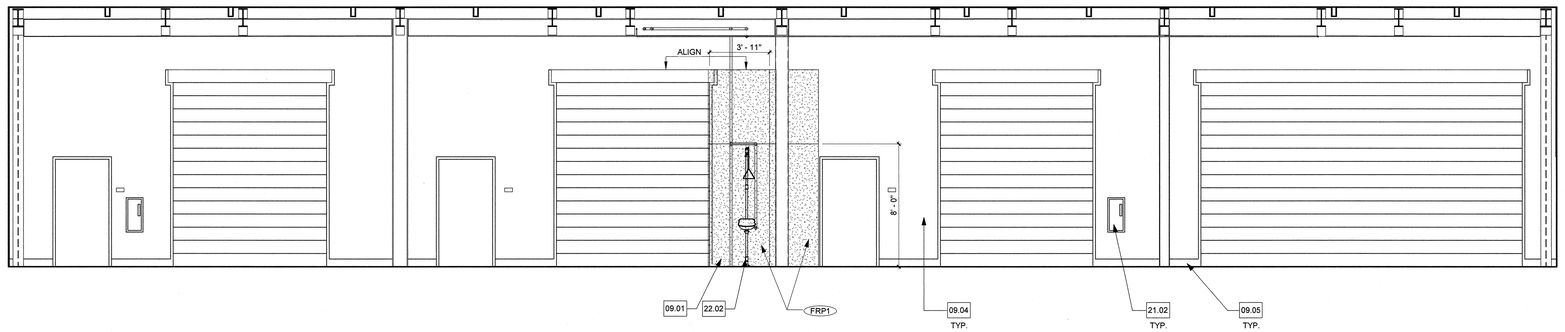
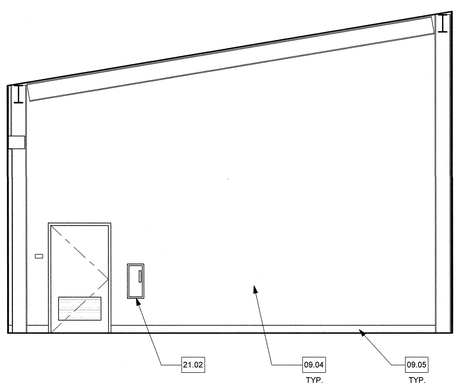


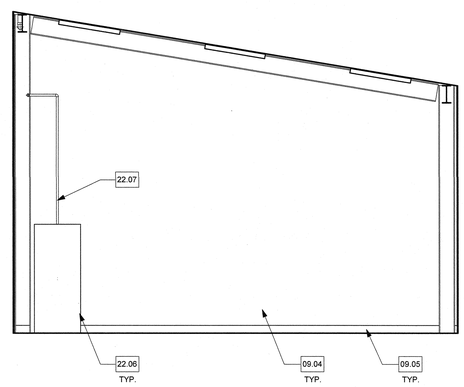
FABRICATION BUILDING 3 - NORTH INTERIOR ELEVATION — G1 — 1/4" = 1'-0"



FABRICATION BUILDING 3 - SOUTH INTERIOR ELEVATION — C1 — 1/4" = 1'-0"



FABRICATION BUILDING 3 - WEST INTERIOR ELEVATION — A4 — 1/4" = 1'-0"



FABRICATION BUILDING 3 - EAST INTERIOR ELEVATION — A1 — 1/4" = 1'-0"

HMC Architects
3546 Concours Street / Ontario, CA 91764
T 909 989 9979 / www.hmcarchitects.com

KEYNOTES

NO.	NOTE - DETAIL
09.01	FRP 5/A10.11, 3/A10.21, 11/A10.21
09.04	PAINTED PLYWOOD
09.05	RUBBER BASE
21.02	FIRE EXTINGUISHER - 12/A10.81
22.02	ACCESSIBLE COMBINATION EMERGENCY EYE WASH AND SHOWER
22.03	WATER HEATER
22.06	AIR COMPRESSOR ON CONC. PAD, SEE PLUMBING/ STRUCT. DWGS
22.07	PLUMBING INFRASTRUCTURE

NOTES

1. REFER TO SHEET G0.1 FOR TYPICAL SYMBOLS AND ABBREVIATIONS
2. FOR ADDITIONAL INFORMATION REFER TO A 4.1
3. EXTEND RUBBER BASE BEHIND STL. COLUMNS
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Consultant Seal

Agency Approval FILE NO.37-C1
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DIV. OF THE STATE ARCHITECT
APPL. 04-115420
ACS SD FLS KB SSS KB
DATE OCT 1 8 2017

Project Title

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Learning for Success

PALOMAR COLLEGE
NEW STORAGE BUILDINGS
1140 W. MISSION RD.,
SAN MARCOS, CA 92069
(760) 744-1150

No.	Description	Date

Drawing Title:
FABRICATION BUILDING 3 - INTERIOR ELEVATIONS

Architect's Seal
LICENSED ARCHITECT KENNETH SAUER NO. C-19082 REN. 11-30-17 STATE OF CALIFORNIA

Designer:	Designer	Project No.	3443001-302
Drawn:	Author	Scale:	As indicated
QAQC	Checker	Drawing No.	A3.3
Date:	10/18/17		

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DSA APPROVAL

ROOM FINISH SCHEDULE STORAGE BLDG 2

NUMBER	NAME	FLOOR MATERIAL	BASE MATERIAL	BASE COLOR	WALLS NORTH MATERIAL	WALLS NORTH FINISH	WALLS EAST MATERIAL	WALLS EAST FINISH	WALLS SOUTH MATERIAL	WALLS SOUTH FINISH	WALLS WEST MATERIAL	WALLS WEST FINISH	CEILING MATERIAL	CEILING FINISH	REMARKS
201	STORAGE	CONC	B	B1	PLY	PE	PLY	PE	PLY	PE	PLY	PE	-	PE	
202	STORAGE	CONC	B	B1	PLY	PE	PLY	PE	PLY	PE	PLY	PE	-	PE	

STORAGE BLDG 2 - ROOM FINISH SCHEDULE | B5

DOOR SCHEDULE_STORAGE BLDG 2

DOOR NUMBER	DOOR SIZE WIDTH PANEL	DOOR SIZE WIDTH PANEL	DOOR SIZE HEIGHT	FIRE RATING	Door MATERIAL	Door FINISH	Door PANEL TYPE	Door UNDERCUT	FRAME MATERIAL	FRAME FINISH	FRAME TYPE	HARDWARE GROUP	PANIC	GLASS	DETAILS (SHEET A10.15 U.N.O.) HEAD	JAMB 1	JAMB 2	THRESH	SIGN DETAILS (SHEET A10.04)	COMMENTS	DOOR NUMBER
201A		3' - 9"	7' - 0"	NR	HM	PT	06 : S	0' - 0"	HM	PT	A : S	450	No	-	2/A10.21	3/A10.21	3/A10.21	1/A10.21	-		201A
201B		12' - 4"	12' - 0"	NR	HM	PT	-	0' - 0"	HM	PT	-	960	No	-	7/A10.21	11/A10.21	11/A10.21	6/A10.21	-	OVERHEAD COILING DOORS	201B
202A	4' - 0"	4' - 0"	7' - 0"	NR	HM	PT	06 : D	0' - 0"	HM	PT	A : D	551	No	-	2/A10.21	3/A10.21	3/A10.21	1/A10.21	-		202A

STORAGE BLDG 2 - DOOR SCHEDULE | G1

ROOM FINISH SCHEDULE FABRICATING BLDG 3

	NAME	FLOOR MATERIAL	BASE MATERIAL	BASE COLOR	WALLS NORTH MATERIAL	WALLS NORTH FINISH	WALLS EAST MATERIAL	WALLS EAST FINISH	WALLS SOUTH MATERIAL	WALLS SOUTH FINISH	WALLS WEST MATERIAL	WALLS WEST FINISH	CEILING MATERIAL	CEILING FINISH	REMARKS
301	FABRICATION	CONC	B	B1	PLY	PE	PLY	PE	PLY	PE	PLY	PE	-	PE	
302	FABRICATION	CONC	B	B1	PLY	PE	PLY	PE	PLY	PE	PLY	PE	-	PE	
303	FABRICATION	CONC	B	B1	PLY/FRP	PE/FRP	PLY	PE	PLY/FRP	PE/FRP	PLY	PE	-	PE	
304	FABRICATION	CONC	B	B1	PLY	PE	PLY	PE	PLY	PE	PLY	PE	-	PE	

FABRICATING BLDG 3 - ROOM FINISH SCHEDULE | E5

ROOM FINISH SCHEDULE STORAGE BLDG 1

ROOM NUMBER	NAME	FLOOR MATERIAL	BASE MATERIAL	BASE COLOR	WALLS NORTH MATERIAL	WALLS NORTH FINISH	WALLS EAST MATERIAL	WALLS EAST FINISH	WALLS SOUTH MATERIAL	WALLS SOUTH FINISH	WALLS WEST MATERIAL	WALLS WEST FINISH	CEILING MATERIAL	CEILING FINISH	REMARKS
101	STORAGE	CONC	B	B1	PLY	PE	PLY	PE	PLY	PE	PLY	PE	-	PE	
102	STORAGE	CONC	B	B1	PLY	PE	PLY	PE	PLY	PE	PLY	PE	-	PE	
103	STORAGE	CONC	B	B1	PLY	PE	PLY	PE	PLY	PE	PLY	PE	-	PE	

STORAGE BLDG 1 - ROOM FINISH SCHEDULE | E1

DOOR SCHEDULE FABRICATING BLDG 3

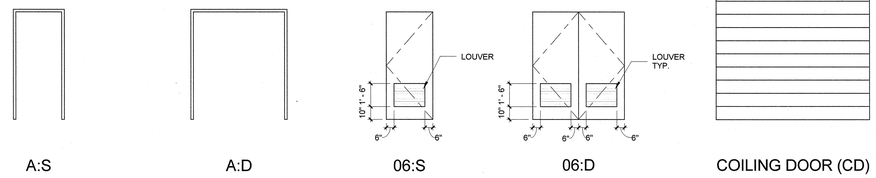
DOOR NUMBER	DOOR SIZE WIDTH # OF	DOOR SIZE WIDTH PANEL	DOOR SIZE HEIGHT	FIRE RATING	Door MATERIAL	Door FINISH	Door PANEL TYPE	Door UNDERCUT	FRAME MATERIAL	FRAME FINISH	FRAME TYPE	HARDWARE GROUP	PANIC	GLASS	DETAILS (SHEET A10.15 U.N.O.) HEAD	JAMB 1	JAMB 2	THRESH	SIGN DETAILS (SHEET A10.04)	COMMENTS	DOOR NUMBER
301A		3' - 9"	7' - 0"	NR	HM	PT	06 : S	0' - 0"	HM	PT	A : S	450	No	-	2/A10.21	3/A10.21	3/A10.21	1/A10.21	-		301A
301B		21' - 0"	12' - 0"	NR	HM	PT	-	0' - 0"	HM	PT	-	960	No	-	7/A10.21	11/A10.21	11/A10.21	6/A10.21	-	OVERHEAD COILING DOORS	301B
302A		3' - 6"	7' - 0"	NR	HM	PT	06 : S	0' - 0"	HM	PT	A : S	450	No	-	2/A10.21	3/A10.21	3/A10.21	1/A10.21	-		302A
302B		10' - 0"	12' - 0"	NR	HM	PT	-	0' - 0"	HM	PT	-	960	No	-	7/A10.21	11/A10.21	11/A10.21	6/A10.21	-	OVERHEAD COILING DOORS	302B
303A		3' - 6"	7' - 0"	NR	HM	PT	06 : S	0' - 0"	HM	PT	A : S	450	No	-	2/A10.21	3/A10.21	3/A10.21	1/A10.21	-		303A
303B		10' - 0"	12' - 0"	NR	HM	PT	-	0' - 0"	HM	PT	-	960	No	-	7/A10.21	11/A10.21	11/A10.21	6/A10.21	-	OVERHEAD COILING DOORS	303B
304A		3' - 6"	7' - 0"	NR	HM	PT	06 : S	0' - 0"	HM	PT	A : S	450	No	-	2/A10.21	3/A10.21	3/A10.21	1/A10.21	-		304A
304B		10' - 0"	12' - 0"	NR	HM	PT	-	0' - 0"	HM	PT	-	960	No	-	7/A10.21	11/A10.21	11/A10.21	6/A10.21	-	OVERHEAD COILING DOORS	304B

FABRICATING BLDG 3 - DOOR SCHEDULE | B5

DOOR SCHEDULE STORAGE BLDG 1

DOOR NUMBER	DOOR SIZE WIDTH PANEL	DOOR SIZE WIDTH PANEL	DOOR SIZE HEIGHT	FIRE RATING	Door MATERIAL	Door FINISH	Door PANEL TYPE	Door UNDERCUT	FRAME MATERIAL	FRAME FINISH	FRAME TYPE	HARDWARE GROUP	PANIC	GLASS	DETAILS (SHEET A10.15 U.N.O.) HEAD	JAMB 1	JAMB 2	THRESH	SIGN DETAILS (SHEET A10.04)	COMMENTS	DOOR NUMBER
101A		3' - 9"	7' - 0"	NR	HM	PT	06 : S	0' - 0"	HM	PT	A : S	450	No	-	2/A10.21	3/A10.21	3/A10.21	1/A10.21	-		101A
101B		21' - 0"	12' - 0"	NR	HM	PT	-	0' - 0"	HM	PT	-	960	No	-	7/A10.21	11/A10.21	11/A10.21	6/A10.21	-	OVERHEAD COILING DOORS	101B
101C		10' - 0"	12' - 0"	NR	HM	PT	-	0' - 0"	HM	PT	-	960	No	-	7/A10.21	11/A10.21	11/A10.21	6/A10.21	-	OVERHEAD COILING DOORS	101C
102A		3' - 6"	7' - 0"	NR	HM	PT	06 : S	0' - 0"	HM	PT	A : S	450	No	-	2/A10.21	3/A10.21	3/A10.21	1/A10.21	-		102A
102B		10' - 0"	12' - 0"	NR	HM	PT	-	0' - 0"	HM	PT	-	960	No	-	7/A10.21	11/A10.21	11/A10.21	6/A10.21	-	OVERHEAD COILING DOORS	102B
102C		3' - 6"	7' - 0"	NR	HM	PT	06 : S	0' - 0"	HM	PT	A : S	450	No	-	2/A10.21	3/A10.21	3/A10.21	1/A10.21	-		102C
103A		3' - 6"	7' - 0"	NR	HM	PT	06 : S	0' - 0"	HM	PT	A : S	450	No	-	2/A10.21	3/A10.21	3/A10.21	1/A10.21	-		103A
103B		10' - 0"	12' - 0"	NR	HM	PT	-	0' - 0"	HM	PT	-	960	No	-	7/A10.21	11/A10.21	11/A10.21	6/A10.21	-	OVERHEAD COILING DOORS	103B

STORAGE BLDG 1 - DOOR SCHEDULE | B1



A:S A:D 06:S 06:D COILING DOOR (CD)

DOOR AND FRAME TYPES | A1

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3546 Concours Street / Ontario, CA 91764
T 909 989 9979 / www.hmcarchitects.com

INTERIOR FINISH ABBREVIATIONS:

B	RUBBER BASE
CONC	CONCRETE
PE	PAINT - EGGSHELL
PM	PAINT - MATTE
PLY	PLYWOOD
FRP	FIBERGLASS REINFORCED PLASTIC

DOOR SCHEDULE ABBREVIATIONS:

AL	ALUMINUM
HM	HOLLOW METAL
LV	LOUVER
PT	PAINT
SS	STAINLESS STEEL

NOTES

1. DOOR LOUVER SIZE
   BUILDING 1 SHALL HAVE A MIN. OF 48 SQ IN. OF FREE LOUVER AREA.
   BUILDING 2 SHALL HAVE A MIN. 36 SQ IN. OF FREE LOUVER AREA.
   BUILDING 3 SHALL HAVE A MIN. OF 48 SQ IN. OF FREE LOUVER AREA.
2. COLORS PER SPEC 09 06 00 SCHEDULE FOR FINISHES

Consultant Seal

Agency Approval FILE NO.37-C1
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 04-115420
ACS ~~S~~ FLS ~~FS~~ SSS ~~KJ~~
DATE OCT 1 6 2017

Project Title

PALOMAR COLLEGE
NEW STORAGE BUILDINGS
1140 W. MISSION RD.,
SAN MARCOS, CA 92069
(760) 744-1150

No.	Description	Date

Drawing Title:
BLDGS 1, 2 & 3 - SCHEDULES

Architect's Seal
LICENSED ARCHITECT KENNETH SALTER NO. C-19092 REN. 11-30-2017 STATE OF CALIFORNIA

Designed:	DS	Project No.	3443001-302
Drawn:	VH,GS	Scale:	As indicated
QAQC	KS	Drawing No.	A4.1
Date:	10/18/17		

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DSA APPROVAL

HMC Architects
3546 Concours Street / Ontario, CA 91764
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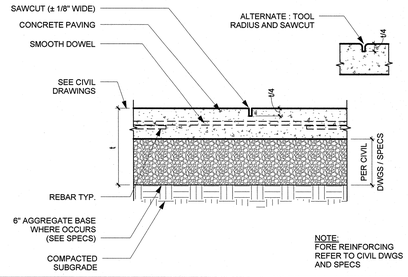
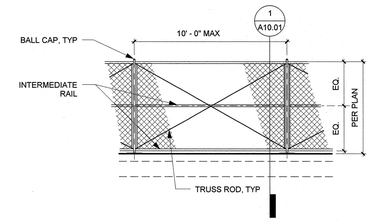
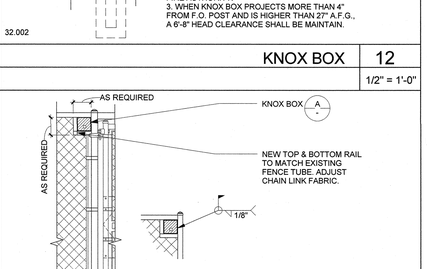
SM

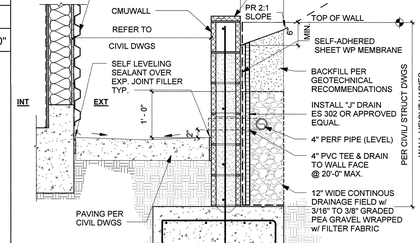




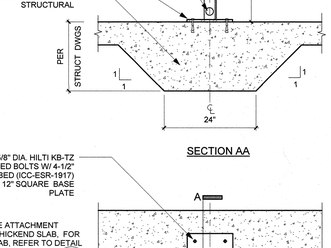
05.200

NOT USED	25	NOT USED	20	CONCRETE CONTROL JOINT	15	NOT USED	10	CHAIN LINK FENCE	5
				1 1/2" = 1'-0"				1/4" = 1'-0"	





05.203



05.204

NOT USED	24	NOT USED	19	CONSTRUCTION JOINT	14	CHAIN LINK FENCE WEST ELEVATION - STORAGE BLDG 2	9	CHAIN LINK FENCE SOUTH ELEVATION - STORAGE BLDG 2	4
				1 1/2" = 1'-0"		1/4" = 1'-0"		1/4" = 1'-0"	

32.001

05.202

NOT USED	23	NOT USED	18	ASPHALT AT CONCRETE PAVING	13	CHAIN LINK FENCE ELEVATION - STORAGE BLDG 1	3
				1 1/2" = 1'-0"		1/4" = 1'-0"	

32.002

32.053

05.205

NOT USED	22	INTERIOR ELEV. - OFFICE T-120B	17	KNOX BOX	12	CONCRETE SITE WALL	6	CHAIN LINK FENCE AT THICKENED SLAB	1
		1/4" = 1'-0"		1/2" = 1'-0"		3/4" = 1'-0"		3/4" = 1'-0"	

32.001

NOT USED	21	ENLARGED SITE PLAN	16	KNOX BOX	11	CONCRETE SITE WALL	6	CHAIN LINK FENCE AT THICKENED SLAB	1
		1/4" = 1'-0"		1/2" = 1'-0"		3/4" = 1'-0"		3/4" = 1'-0"	

Consultant Seal

Agency Approval FILE NO.37-C1
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DIV. OF THE STATE ARCHITECT
APPL. 04-115420
ACS. SJ FLS. TG SSS KB
DATE OCT 1 8 2017

Project Title

PALOMAR COLLEGE®
Learning for Success

PALOMAR COLLEGE
NEW STORAGE BUILDINGS
1140 W. MISSION RD.,
SAN MARCOS, CA 92069
(760) 744-1150

No.	Description	Date

Drawing Title:
SITE & FENCE DETAILS

Architect's Seal
LICENSED ARCHITECT KENNETH SALTER NO. C-19092 REN. 11-30-17 STATE OF CALIFORNIA

Designed:	DS	Project No.	3443001-302
Drawn:	VH,GS	Scale:	As indicated
QA/QC	KS	Drawing No.	A10.01
Date:	10/18/17		

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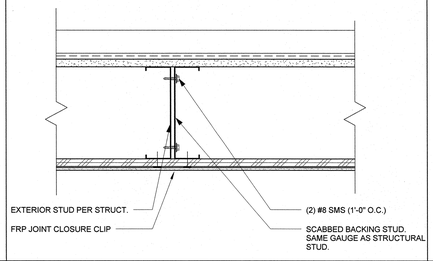
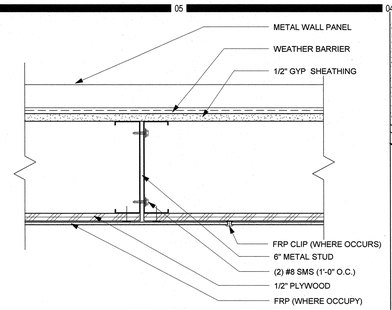
NOT USED	25

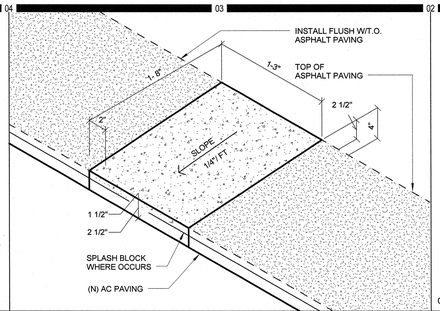
BACKING @ VERTICAL PLYWOOD JOINT	20
	3" = 1'-0"



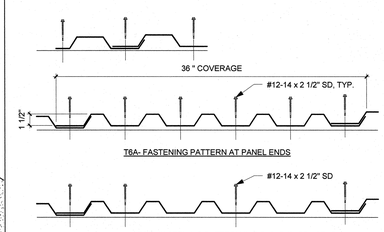
FRP @ SHOWER PLAN/SINK	15
	3" = 1'-0"



SPLASHBLOCK	10
	1 1/2" = 1'-0"



METAL PANEL FASTENING PATTERN	5
	1 1/2" = 1'-0"

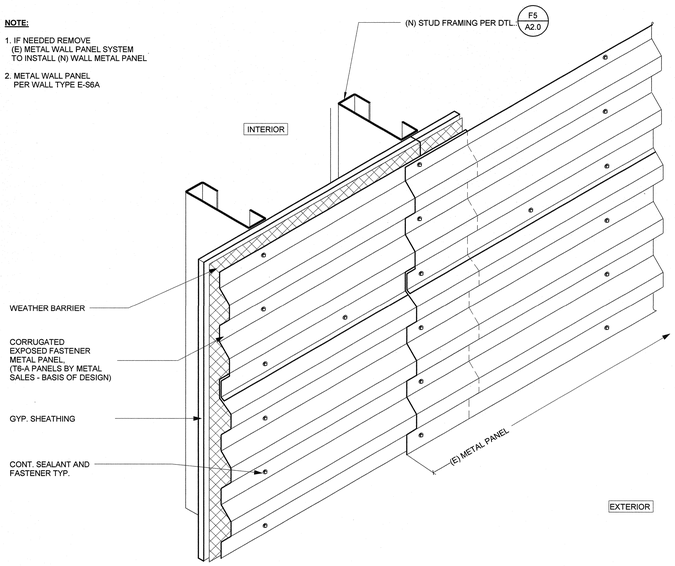


NOTE:
1. REFER TO ICC-ES ESR-1976 FOR FASTNERS
2. FOR GA, REFER TO SPEC SECTION 07 42 13

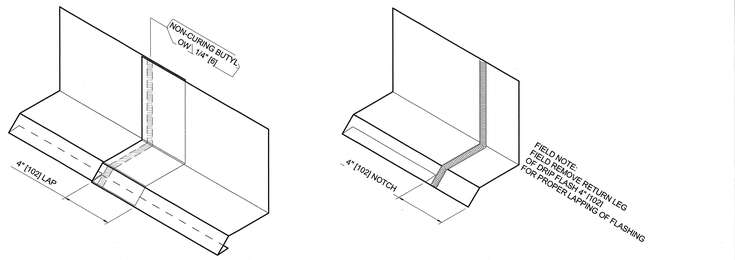
07.205

NOTE:

1. IF NEEDED REMOVE (E) METAL WALL PANEL SYSTEM TO INSTALL (N) WALL METAL PANEL
2. METAL WALL PANEL PER WALL TYPE E-S6A

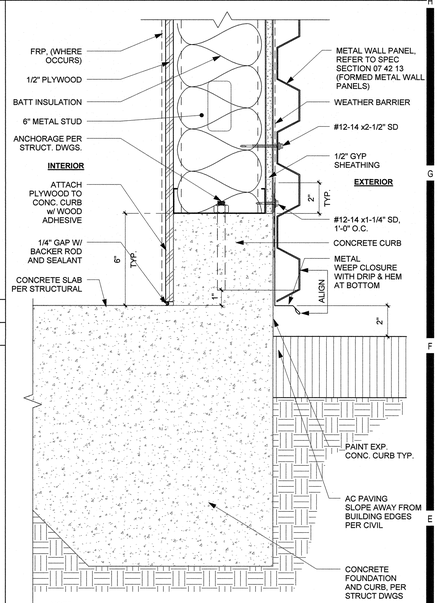


TYPICAL METAL PANEL ASSEMBLY @ BLDG T - WALL INFILL	18
	3" = 1'-0"



09_067

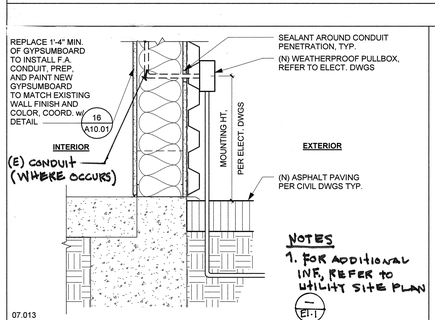
ISOMETRIC VIEW OF TYPICAL FLASHING LAP	9
	N.T.S.



NOTE:
1. AT SWITGEAR CONC. PAD ADJACENT TO BLDG 3, RAISE METAL WEEP CLOSURE 2" ABOVE - TOP OF CONC. PAD

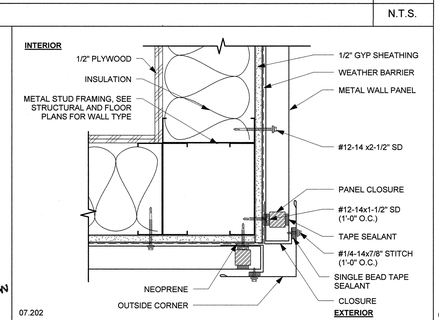
07.201

CORRUGATED MTL PANEL @ BASE	3
	3" = 1'-0"



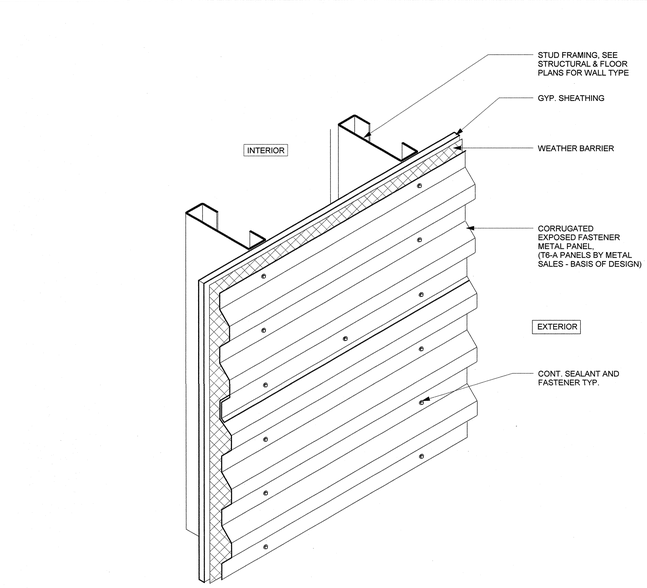
07.013

(N) J-BOX AT (E) WALL - BLDG T OFFICE 120B	13
	1 1/2" = 1'-0"

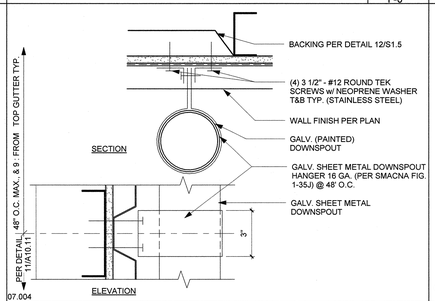


07.202

METAL PANEL AT EXTERIOR CORNER	8
	3" = 1'-0"

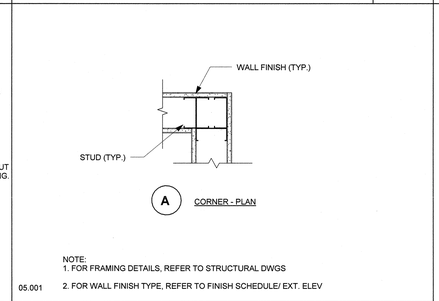


TYPICAL METAL PANEL ASSEMBLY	16
	3" = 1'-0"



07.004

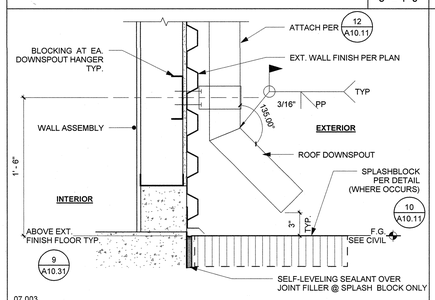
DOWNSPOUT ATTACHMENT	12
	3" = 1'-0"



NOTE:
1. FOR FRAMING DETAILS, REFER TO STRUCTURAL DWGS
2. FOR WALL FINISH TYPE, REFER TO FINISH SCHEDULE/ EXT. ELEV

05.001

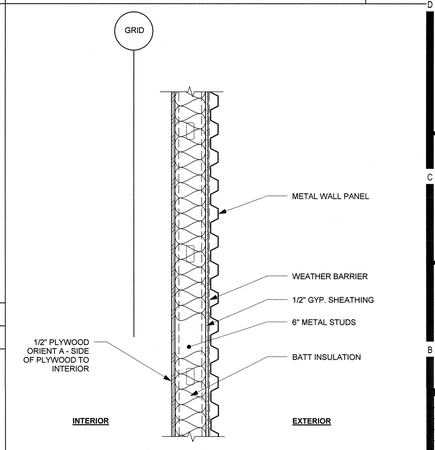
TYPICAL STUD WALL CONDITIONS	7
	1 1/2" = 1'-0"



07.003

DOWNSPOUT	11
	1 1/2" = 1'-0"

NOT USED	6



NOTES:

1. WALL PANEL TESTED FOR ASTM E-331 & ASTM E-283
2. FOR TYPICAL BASE OF WALL DETAIL SEE 3 A10.11
3. FOR FASTENER LAYOUT, SEE DETAIL 5 A10.11
4. WALL PANEL GA. PER SPECS.

07.001

E-S6A	1
	1" = 1'-0"

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SM

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DATE OCT 13 2017

Project Title

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NEW STORAGE BUILDINGS
1140 W. MISSION RD.,
SAN MARCOS, CA 92069
(760) 744-1150

No.	Description	Date

Drawing Title:
WALL DETAILS

Architect's Seal

LICENSED ARCHITECT KENNETH SAUER LIC. NO. C-19032 REN. 11-30-19 STATE OF CALIFORNIA

Designer: Designer	Project No. 3443001-302
Drawn: Author	Scale: As indicated
QAQC Checker	Drawing No. A10.11
Date: 10/18/17	

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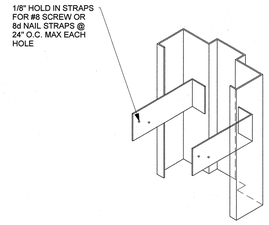
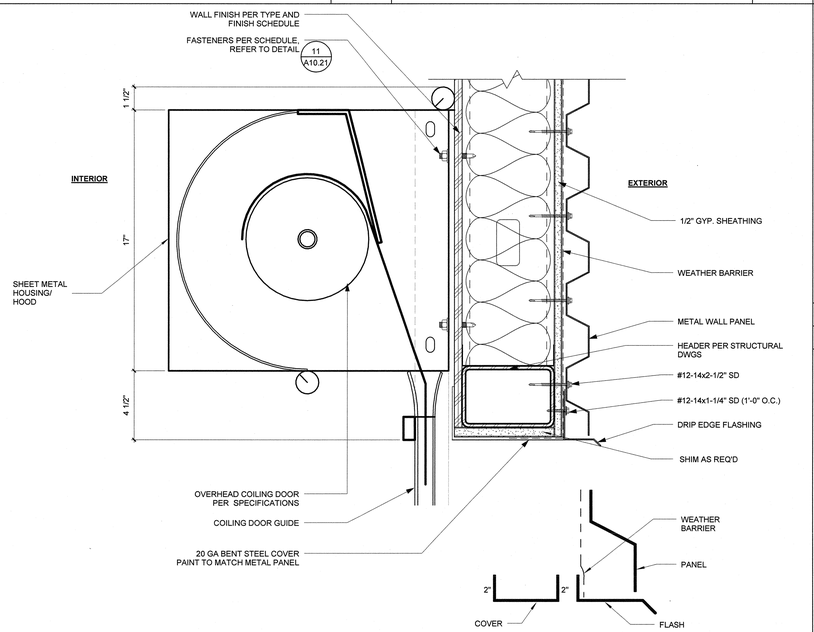
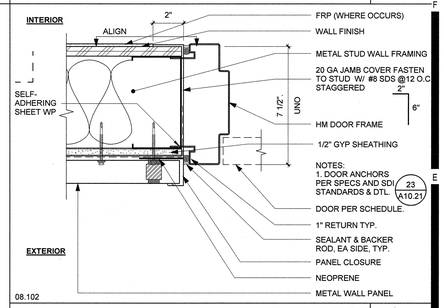
NOT USED	25	NOT USED	20	NOT USED	15	NOT USED	10	NOT USED	23
NOT USED	24	NOT USED	19	NOT USED	14	NOT USED	9	DOOR FRAME ANCHOR	23
								NTS	

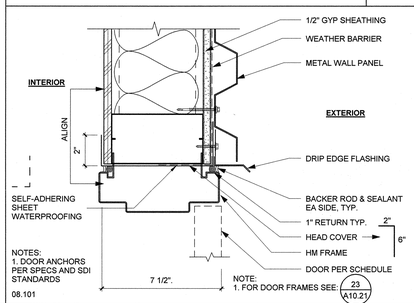


NOT USED	23	NOT USED	18						
NOT USED	22	NOT USED	17	OVERHEAD COILING DOOR HEAD	7			HM EXTERIOR HEAD	2
				3" = 1'-0"				3" = 1'-0"	

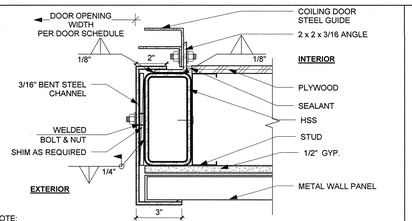




NOT USED	22	NOT USED	17					HM EXTERIOR JAMB	3
								3" = 1'-0"	



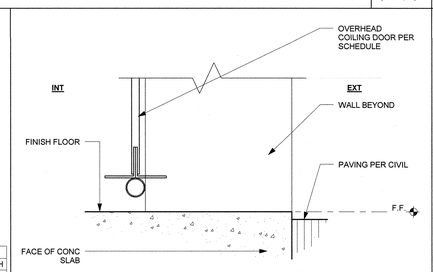
NOT USED	21	NOT USED	16	COILING DOOR JAMB @ METAL PANEL	11	OVERHEAD COILING DOOR SILL	6	EXTERIOR DOOR THRESHOLD	1
				3" = 1'-0"		3" = 1'-0"		6" = 1'-0"	



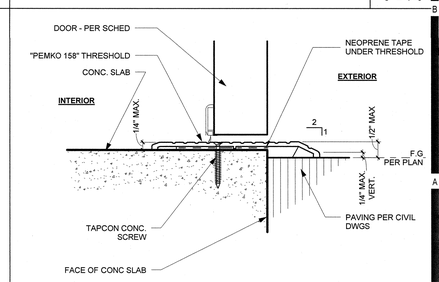
NOTE:
1. ATTACH WALL FASTENERS AT 24" O.C. FULL HEIGHT OF EACH GUIDE, 3" FROM EA. EDGE.
2. PROVIDE LOCK WASHERS AT EA. FASTENER

WALL BOLT SCHEDULE					
OPENING WIDTH	TYPE	SIZE	SPACING	DRILL SIZE	MINIMUM HOLE DEPTH
TO 16'	SELF-TAPPING SCREW	3/8" x 2"	24" O.C.	5/16"	N/A
OVER 16' - 30'	MACHINE SCREW	1/2" x 2"	24" O.C.	LETTER "S"	N/A

08.200



08.201



08.002

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3546 Concours Street / Ontario, CA 91764
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SM

Consultant Seal

Agency Approval FILE NO.37-C1
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 04-115420
ACS FLS SSS
DATE OCT 13 2017

Project Title

PALOMAR COLLEGE
NEW STORAGE BUILDINGS
1140 W. MISSION RD.,
SAN MARCOS, CA 92069
(760) 744-1150

No.	Description	Date

Drawing Title:
DOOR DETAILS

Architect's Seal
LICENSED ARCHITECT KENNETH SALTER NO. C-19082 REN. 11-30-2017 STATE OF CALIFORNIA

Designed:	DS	Project No.	3443001-302
Drawn:	VH,GS	Scale:	As indicated
QAQC	KS	Drawing No.	A10.21
Date:	10/18/17		

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10/18/2017 9:43:55 AM

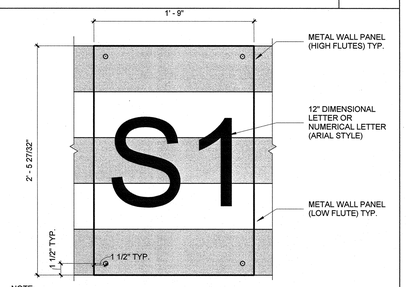
PLEASE RECYCLE

DSA APPROVAL

NOT USED — 25

MOUNTING PLATE — 23

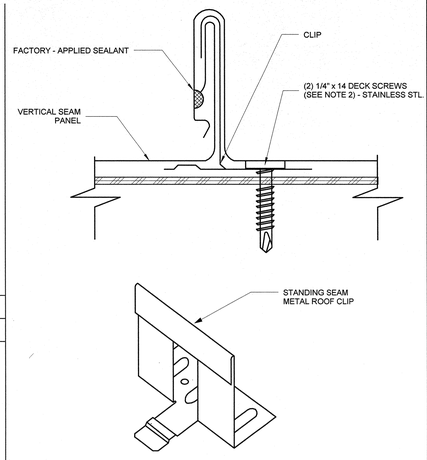
1 1/2" = 1'-0"



NOTE:
COORDINATE LOCATION IN THE FIELD WITH ARCHITECT

STANDING SEAM METAL ROOF CLIP — 19

1 1/2" = 1'-0"

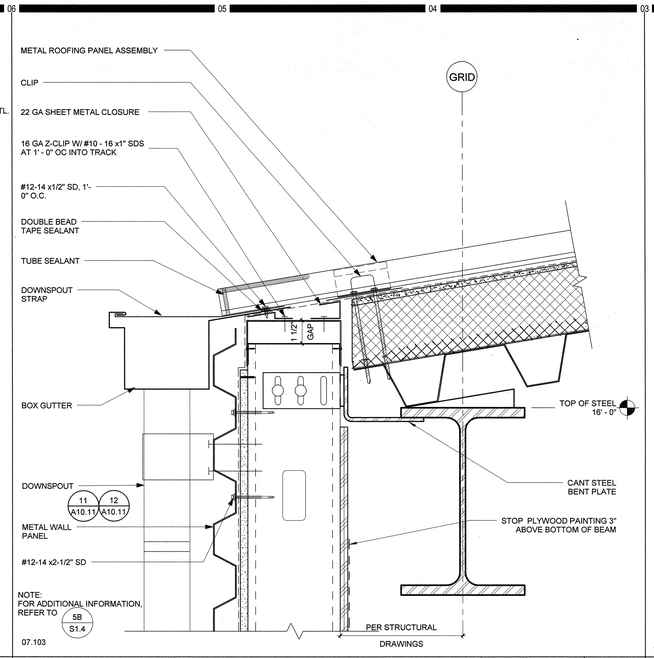


SECTION PROPERTIES								ALLOWABLE UNIFORM LOADS, PSF	
GA	WIDTH IN	YIELD KSI	WEIGHT PSF	TOP IN COMPRESSION		BOTTOM IN COMPRESSION		INWARD LOAD	OUTWARD LOAD
				Ixx IN^4/FT	Sxx IN^3/FT	Ixx IN^4/FT	Sxx IN^3/FT	3.5'	3.5'
22	16	50	1.66	0.1230	0.0822	0.0585	0.0579	110	48

NOTE:
1. REFER TO ICC-ES ESR-2385 & UL NO. 580
2. LENGTH OF DECK SCREW DEPENDS ON TOTAL THICKNESS OF ROOF ASSEMBLY.
3. FOR ADDITIONAL INFORMATION REFER TO DETAIL: 1 / A10.31
4. CLIP UL90

STANDING SEAM METAL ROOF - EAVE — 9

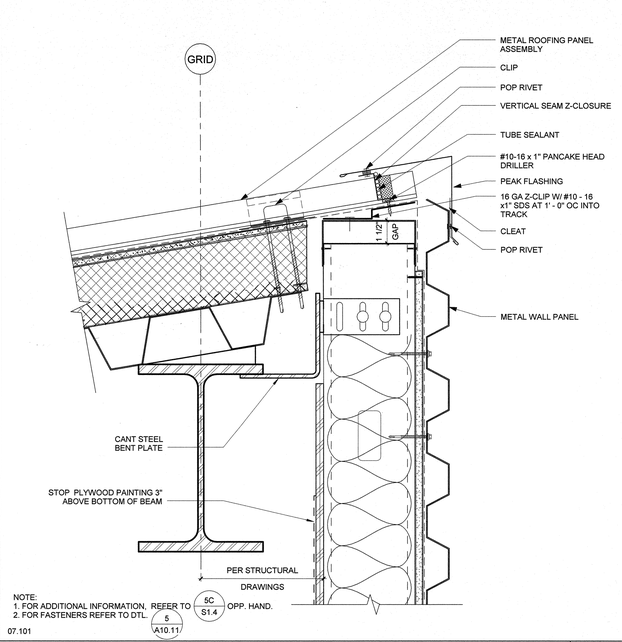
3" = 1'-0"



07.103

STANDING SEAM METAL ROOF - PEAK — 4

3" = 1'-0"

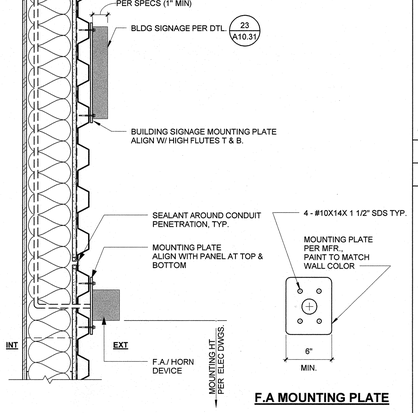


NOTE:
1. FOR ADDITIONAL INFORMATION, REFER TO 5C / S1.4 OPP. HAND.
2. FOR FASTENERS REFER TO DTL. 5 / A10.11

07.101

EXTERIOR F.A. DEVICE & BLDG SIGNAGE — 22

1 1/2" = 1'-0"



F.A MOUNTING PLATE

STANDING SEAM FASTENING PATTERN — 18

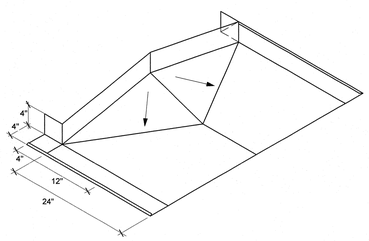
3" = 1'-0"

NOTE:
1. REFER TO ICC-ES ESR-2385 & UL NO. 580
2. LENGTH OF DECK SCREW DEPENDS ON TOTAL THICKNESS OF ROOF ASSEMBLY.
3. FOR ADDITIONAL INFORMATION REFER TO DETAIL: 1 / A10.31 & 19 / A10.31

07.106

CRICKET FLASHING AT SKYLIGHT — 17

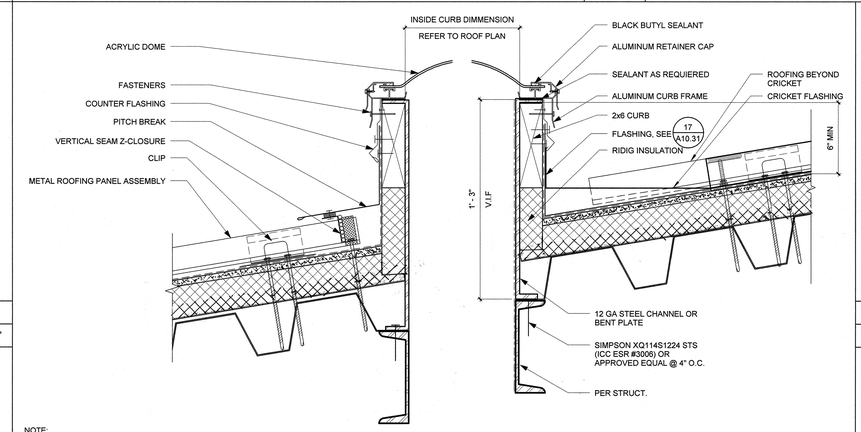
1" = 1'-0"



07.105

SKYLIGHT — 8

3" = 1'-0"

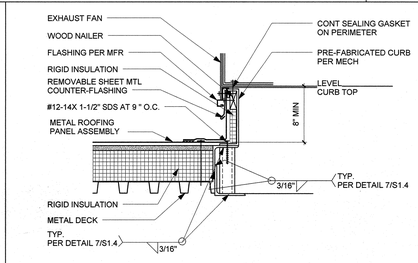


NOTE:
REFER TO ICC-ES ESR 3177 FOR SKYLIGHT

08.302

EXHAUST FAN CURB — 3

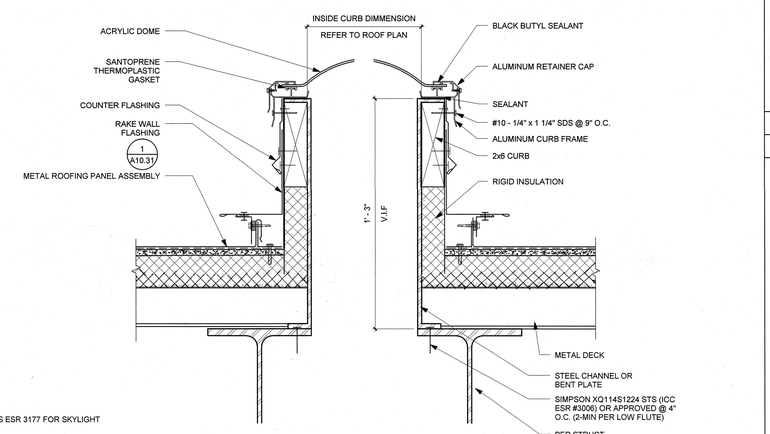
1 1/2" = 1'-0"



07.022

SKYLIGHT — 6

3" = 1'-0"

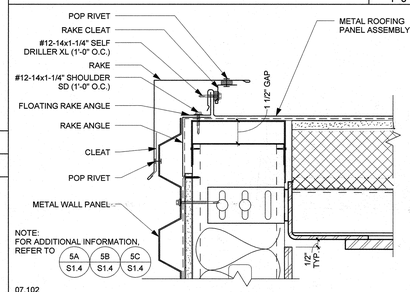


NOTE:
REFER TO ICC-ES ESR 3177 FOR SKYLIGHT

08.301

STANDING SEAM METAL ROOF - RAKE — 2

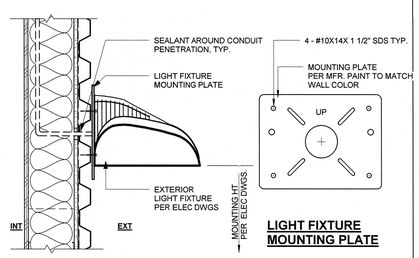
3" = 1'-0"



07.102

EXTERIOR LIGHT FIXTURE — 21

1 1/2" = 1'-0"

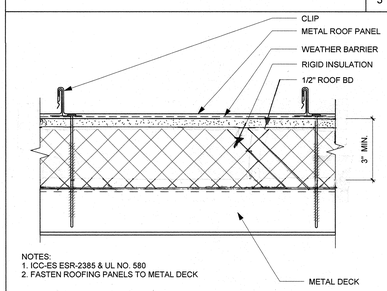


LIGHT FIXTURE MOUNTING PLATE

NOT USED — 16

METAL ROOFING PANEL ASSEMBLY — 1

3" = 1'-0"



NOTES:
1. ICC-ES ESR-2385 & UL NO. 580
2. FASTEN ROOFING PANELS TO METAL DECK

07.002

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SM

Consultant Seal

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ACS FLS SSS
DATE OCT 18 2017

Project Title

PALOMAR COLLEGE
Learning for Success

PALOMAR COLLEGE
NEW STORAGE BUILDINGS
1140 W. MISSION RD.,
SAN MARCOS, CA 92069
(760) 744-1150

No.	Description	Date

Drawing Title:
ROOF DETAILS

Architect's Seal
LICENSED ARCHITECT KENNETH SALTER NO. C-19082 REN. 11-30-17 STATE OF CALIFORNIA

Designed:	DS	Project No.	3443001-302
Drawn:	VH,GS	Scale:	As indicated
QA/QC	KS	Drawing No.	A10.31
Date:	10/18/17		

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PLEASE RECYCLE

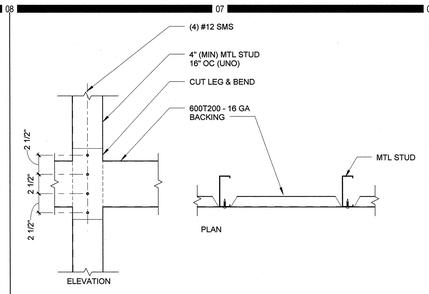
DSA APPROVAL

09 08 07 06 05 04 03 02 01

NOT USED 25

METAL STUD BACKING 20

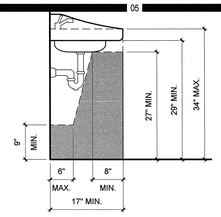
1 1/2" = 1'-0"



09.003

REQUIRED KNEE & TOE CLEARANCES 15

3/4" = 1'-0"



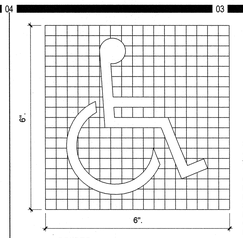
NOTES:

1. KNEE AND TOE SPACE (SHADED AREA) SHALL BE PROVIDED AS REQUIRED BY C.B.C. TABLE 11B-306.
WATER SUPPLY AND DRAIN PIPES UNDER SINKS SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER SINKS.
2. SHADED AREA IS THE ACCESSIBLE CLEAR SPACE.
3. SINK DEPTH 6" MAX.

10.004

ACCESSIBILITY SIGN 10

1/8" = 1'-0"



NOTES:

1.GRID LINES ARE SHOWN FOR PROPORTION ONLY AND ARE NOT TO APPEAR AS PART OF SYMBOL.

2. SIGNAGE SHALL COMPLY WITH SECTION 11B-703.7 CALIFORNIA BUILDING CODE.

SIZE:
AS SHOWN
MATERIALS:
1/8" THICK ETCHED PHOTOPOLYMER
GRAPHICS:
RAISED (MIN 1/32) SYMBOL.
MOUNTING:
SIGN TO BE MOUNTED 60" FROM THE FINISHED FLOOR TO THE VERTICAL CENTER OF THE SIGN, AT DESIRED LOCATIONS. SIGN MOUNTED WITH VHB TAPE AND SILICON ADHESIVE.

COLORS

PLATE BACKGROUND COLOR:
DARK GRAY
SYMBOL COLOR:
WHITE

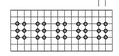
10.003

CHARACTER & BRAILLE STANDARDS 4

3" = 1'-0"

(A) CHARACTER WIDTH TO HEIGHT PROPORTION TEMPLATE

2/10" SPACE BETWEEN CELLS (LETTERS)



1/10" BY 1/10" GRID

CALIFORNIA GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE IS REQUIRED INDIVIDUAL BRAILLE DOTS SHALL EACH BE DISTINCT AND BE ROUNDED OR DOMED IN LIEU OF SQUARE SIDED AND FLAT TOPPED.

(B) BRAILLE SPACING TEMPLATE

1. CHARACTER TYPE: CHARACTERS ON SIGNS SHALL BE RAISED 1/32" (0.794 mm) MINIMUM AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE (SEE NOTE 5 BELOW).

2. CHARACTER SIZE: RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8" (15.9 mm) AND A MAXIMUM OF 2 INCHES (51 mm) HIGH, BASED ON THE LETTER "I". REFER TO **CBC 11B-703.5.5**

3. FINISH AND CONTRAST: CHARACTERS, SYMBOLS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND **11B-703.5.1**

4. PROPORTIONS: CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MIN AND 110% MAX OF THE HEIGHT OF THE UPPERCASE "I". **11B-703.5.4**

5. BRAILLE: CONTRACTED CALIFORNIA GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE IS REQUIRED IN OTHER PORTIONS OF THESE STANDARDS. DOTS SHALL BE 1/10 INCH (2.54 mm) ON CENTERS IN EACH CELL WITH 2/10 INCH (5.08 mm) SPACE BETWEEN CELLS, MEASURED M THE SECOND COLUMN OR DOTS IN THE FIRST CELL TO THE FIRST COLUMN OF DOTS IN THE SECOND CELL. DOTS SHALL BE RAISED A MINIMUM OF 1/40 INCH (0.635 mm) ABOVE THE BACKGROUND. (SEE 10.005B FOR TEMPLATES)

BRAILLE CELL
INTER CELL SPACING = .20"

INTER CELL SPACING WITHIN A CELL=.10"
(VERTICAL OR HORIZONTAL)

BRAILLE CELL DOT

ROUNDED DOT (ACCEPTABLE)
SQUARE DOT (IS NOT ACCEPTABLE)

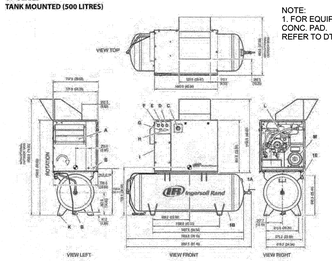
RECOMMEND ROUNDED OR DOMED CALIFORNIA BRAILLE DOTS, EACH DISTINCT AND SEPERATE. DOTS WITH STRAIGHT SIDES AND FLAT TOPS ARE NOT READABLE FOR MANY BRAILLE USERS.

10.002

AIR COMPRESSOR ANCHORAGE 24

NTS

UP-SERIES
TANK MOUNTED (500 LITRES)

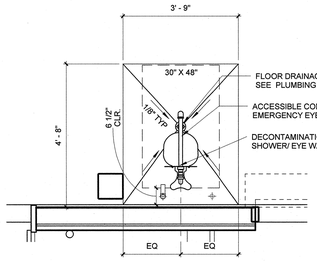


NOTE:
1. FOR EQUIPMENT CONC. PAD, REFER TO DTL. (9 / S1.2)

(1) 1/2" DIA. x 3 5/8" EMBEDMENT HILTI KB-TZ - 1917 ANCHOR AT EACH SUPPORT - TYP. OF (4)
- USE STAINLESS STL. ANCHORS

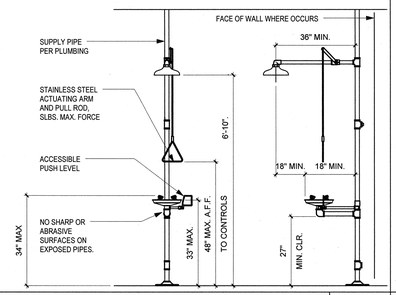
SHOWER PLAN VIEW 19

1/2" = 1'-0"



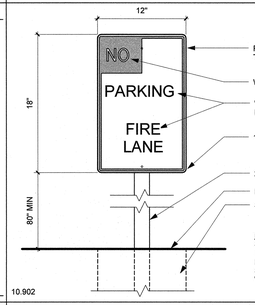
ACCESSIBLE EYEWASH/ SAFETY SHOWER 14

1/2" = 1'-0"



FIRE LANE SIGN 9

1 1/2" = 1'-0"



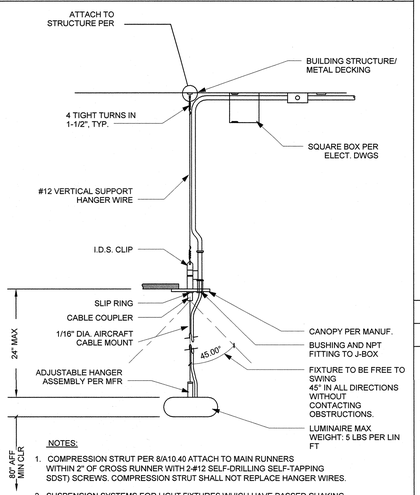
REFLECTORIZED MTL SIGN w/ BEADED TEXT
WHITE TEXT "NO" ON RED BACKGROUND
"PARKING" & "FIRE LANE" RED TEXT ON WHITE BACKGROUND
1/2" RADIUS TYPICAL
2" DIA GALV STD STL PIPE
PAVEMENT
SIGN FOOTING SEE (7 / A10.81)

NOTE:
SIGN SHALL BE PERMANENTLY POSTED IMMEDIATELY ADJACENT TO AND VISIBLE FROM APPROACHING VEHICULAR PATH. SIGN SHALL NOT OBSTRUCT ANY WALKWAY.

10.902

BLDG 3 EQUIPMENT ANCHORAGE ATTACHMENT DETAIL 23

1 1/2" = 1'-0"



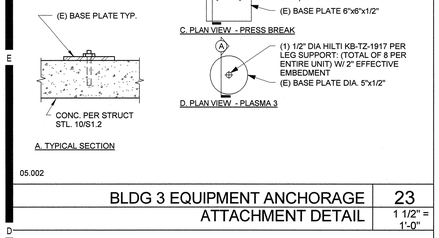
NOTES:

1. COMPRESSION STRUT PER 8/A10.40 ATTACH TO MAIN RUNNERS WITHIN 2" OF CROSS RUNNER WITH 2-#12 SELF-DRILLING SELF-TAPPING SDST) SCREWS. COMPRESSION STRUT SHALL NOT REPLACE HANGER WIRES.
2. SUSPENSION SYSTEMS FOR LIGHT FIXTURES WHICH HAVE PASSED SHAKING TABLE TESTS APPROVED BY D.S.A., OR WHICH, AS INSTALLED, ARE FREE TO SWING A MINIMUM OF 45° FROM THE VERTICAL IN ALL DIRECTIONS WITHOUT CONTACTING OBSTRUCTIONS SHALL BE ASSUMED TO COMPLY WITH THE LATERAL-FORCE REQUIREMENTS OF 2013 C.B.C. SECTION 1632A.2 AND TABLE 16A-O, FOOTNOTE #25. UNLESS THE CABLE-TYPE, FREE-SWINGING SUSPENSION SYSTMES SHALL HAVE A SAFETY WIRE OR CABLE ATTACHED TO THE FIXTURE AND STRUCTURE AT EACH SUPPORT CAPABLE OF SUPPORTING (4) FOUR TIMES THE SUPPORTED LOAD MINIMUM.
3. CONTRACTOR TO VERIFY EXACT AIRCRAFT CABLE LENGHTS AND FIXTURE MOUNTING HEIGHTS ABOVE FINISH FLOOR.
4. FOR ADDITIONAL INFORMATION, REFER TO DETAIL 1/ E 2.1

09.064B

PENDANT LIGHT FIXTURE SUPPORT 21

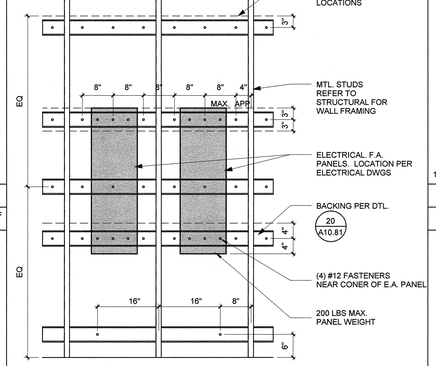
1 1/2" = 1'-0"



05.002

ELECTRICAL F.A. PANEL BACKING 17

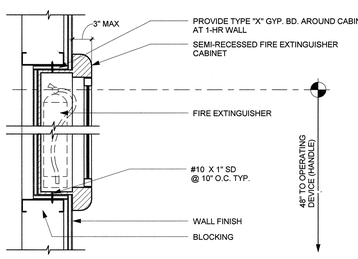
3/4" = 1'-0"



06.004

FIRE EXTINGUISHER 12

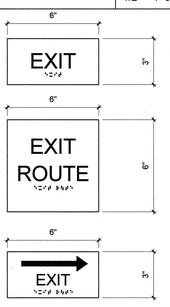
1 1/2" = 1'-0"



10.042

TACTILE EXIT SIGNAGE 13

3" = 1'-0"



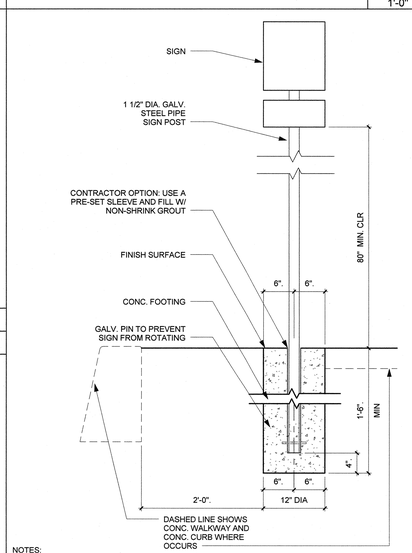
NOTES:
1. LOCATE PER DETAIL 6 / A10.81
2. BRAILE 4 / A10.81

SIZE:
AS SHOWN WITH 1" HIGH TEXT
MATERIALS:
1/8" THICK ETCHED PHOTOPOLYMER
GRAPHICS:
RAISED(MIN 1/32") TEXT WITH CORRESPONDING GRADE 2 BRAILLE.
MOUNTING:
SIGN TO BE MOUNTED 60" FROM THE FINISHED FLOOR TO THE VERTICAL CENTER OF THE SIGN, SIGN TO BE NO CLOSER THAN 4" AND NO FARTHER THAN 12" AWAY FROM THE LATCH SIDE OF THE DOOR. SIGN MOUNTED WITH 3M BOND TAPE AND SILICON GLUE
COLORS:
PLATE BACKGROUND COLOR:
ACRYLIC PLASTIC SHEETS, SILVER COLOR
TEXT COLOR: BLACK

10.019

TYPICAL POLE FOOTING 7

3" = 1'-0"



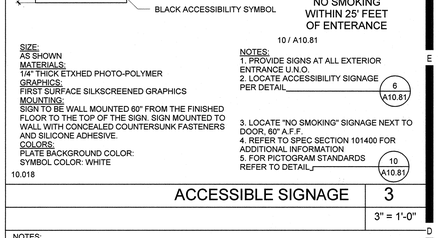
NOTES:

1. SIGNS SHALL BE LOCATED TWO (2) FEET FROM CURB FACE OR EDGE OF PAVEMENT.
2. SIGNS IN PUBLIC RIGHT-OF-WAY SHALL BE SUBJECT TO APPROVAL BY THE CITY OF SAN MARCOS - LFA.
3. ALL CURBS DESIGNATED AS "NO PARKING" SHALL BE PAINTED BY ACCEPTABLE RED PAINT AS PREAPPROVED BY CITY OF SAN MARCOS - LFA.
4. SIGNS SHALL BE LOCATED ON PROPERTY IN SUCH A MANNER AS TO BE EASILY SEEN BY DRIVERS OF VEHICLES ENTERING THE PROPERTY.

10.001

TACTILE ROOM IDENTIFICATION 2

3" = 1'-0"



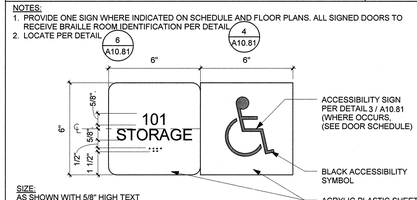
SIZE:
AS SHOWN
MATERIALS:
1/4" THICK ETXHED PHOTO-POLYMER
GRAPHICS:
FIRST SURFACE SILKSCREENED GRAPHICS
MOUNTING:
SIGN TO BE WALL MOUNTED 60" FROM THE FINISHED FLOOR TO THE TOP OF THE SIGN. SIGN MOUNTED TO WALL WITH CONCEALED COUNTERSUNK FASTENERS AND SILICONE ADHESIVE.
COLORS:
PLATE BACKGROUND COLOR:
SYMBOL COLOR: WHITE

10.018

NOTES:
1. PROVIDE SIGNS AT ALL EXTERIOR ENTRANCE U.N.O.
2. LOCATE ACCESSIBILITY SIGNAGE PER DETAIL (6 / A10.81)
3. LOCATE "NO SMOKING" SIGNAGE NEXT TO DOOR, 60" A.F.F.
4. REFER TO SPEC SECTION 101400 FOR ADDITIONAL INFORMATION
5. FOR PICTOGRAM STANDARDS REFER TO DETAIL (10 / A10.81)

ACCESSIBLE SIGNAGE 3

3" = 1'-0"

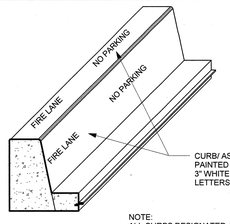


SIZE:
AS SHOWN WITH 5/8" HIGH TEXT
MATERIALS:
TACTILE PLASTIC SIGN
GRAPHICS:
RAISED (MIN 1/32") TEXT. ROOM NUMBER TO HAVE CORRESONDING GRADE 2 BRAILLE.
MOUNTING:
SIGN MOUNTED WITH 3M HIGH BOND AND SILICON GLUE.
COLORS:
PLATE BACKGROUND COLOR:
TEXT COLOR: BLACK

10.012

FIRE LANE CURB 16

3/4" = 1'-0"



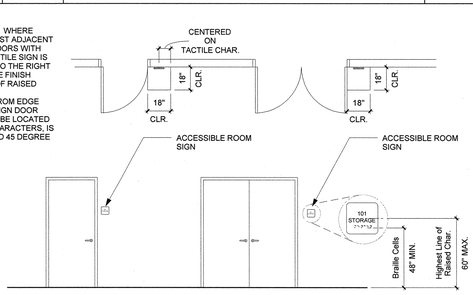
NOTE:
ALL CURBS DESIGNATED AS "NO PARKING" SHALL BE ASPHALT PAVING PAINTED BY ACCEPTABLE RED PAINT AS PREAPPROVED BY CITY OF SAN MARCOS FIRE DEPARTMENT. REFER TO SPEC SECTION 32 17 23

LOCAL FIRE AUTHORITY TEL. NO. : 760.744.1050 EXT.3408

32.006

DOOR SIGNAGE LOCATIONS 6

1/4" = 1'-0"



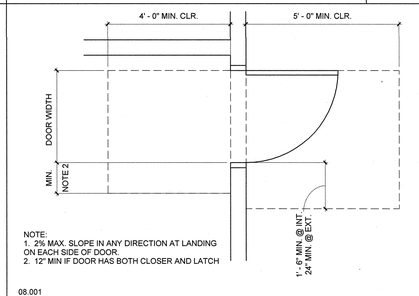
NOTES:
1.
SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONCE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. TACTILE CHARACTERS HEIGHT SHALL BE 48" MIN. ABOVE THE FINISH FLOOR TO THE BASELINE OF THE LOWEST TACTILE BRAILLE CELLS, AND HIGHEST LINE OF RAISED CHARACTERS SHALL BE 60" MAX. ABOVE THE FINISH FLOOR.
FOR PAIRS OF DOORS WHERE DOOR SWING IS LIMITED TO 90 DEGREE MOUNT SIGN 9" FROM EDGE OF DOOR. FOR PAIRS OF DOORS WHERE DOOR SWING EXCEEDS 90 DEGREES MOUNT SIGN DOOR WIDTH PLUS 9" FROM EDGE OF DOOR. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18" MIN. BY 18" MIN., CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION. **REFER TO CBC 11B-703.4.2.**

2.
RESTROOM GEOMETRIC SIGNS SHALL BE INSTALLED CENTERED ON THE DOOR. MOUNTING HEIGHT SHALL BE 60" ABOVE THE FINISH FLOOR TO THE CENTERLINE OF THE SIGN. THE COLOR AND CONTRAST OF THE SIGN SHALL BE DISTINCTLY DIFFERENT FROM THE COLOR AND CONTRAST OF THE DOOR.

10.005

DOOR LANDING AND CLEARANCES 1

1/2" = 1'-0"



NOTE:
1. 2% MAX. SLOPE IN ANY DIRECTION AT LANDING ON EACH SIDE OF DOOR.
2. 12" MIN IF DOOR HAS BOTH CLOSER AND LATCH

08.001

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Consultant Seal

Agency Approval FILE NO.37-C1
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 04-115420
ACS 31 FLS 16 SSS KB
DATE OCT 18 2017

Project Title

PALOMAR COLLEGE
Learning for Success

PALOMAR COLLEGE
NEW STORAGE BUILDINGS
1140 W. MISSION RD.,
SAN MARCOS, CA 92069
(760) 744-1150

No.	Description	Date

Drawing Title:
SIGNATURE & MISCELLANEOUS DETAILS

Architect's Seal
LICENSED ARCHITECT KENNETH SALTER NO. C-19092 REN. 11-30-17 STATE OF CALIFORNIA

Designed:	DS	Project No.	3443001-302
Drawn:	VH,GS	Scale:	As indicated
QAQC	KS	Drawing No.	A10.81
Date:	10/18/17		

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10/18/2017 10:06:01 AM

PLEASE RECYCLE

DSA APPROVAL

REINFORCING STEEL (CONTINUED)

8. PROVIDE THE FOLLOWING MINIMUM CONCRETE COVERAGE FOR REINFORCING STEEL PLACED IN CAST-IN-PLACE CONCRETE:

   A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH.....3"
   B. CONCRETE EXPOSED TO EARTH OR WEATHER:
      NO. 6 THROUGH NO. 18 BARS.....2"
      NO. 5 BARS, W31 OR D31 WIRE, AND SMALLER.....1-1/2"
   C. CONCRETE NOT EXPOSED WEATHER OR IN CONTACT WITH GROUND:
      SLAB, WALLS, JOISTS:
      NO. 14 AND NO. 18 BARS.....1-1/2"
      NO. 11 BARS AND SMALLER (*).....1"
      BEAMS AND COLUMNS:
      PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS.....1-1/2"
   D. SLAB-ON-GRADE:.....MID-HEIGHT OF SLAB

   (*) CONCRETE COVERAGE ADEQUATE FOR FIRE-RESISTIVE PERIOD OF 2 HOURS.

9. WALL AND COLUMN DOWELS SHALL MATCH SIZE, GRADE, AND SPACING OF RESPECTIVE VERTICAL REINFORCING, UNLESS OTHERWISE NOTED.

10. WELDING OF REINFORCING STEEL SHALL BE MADE WITH LOW HYDROGEN ELECTRODES IN CONFORMANCE WITH AMERICAN WELD SOCIETY AWS D1.4 "STRUCTURAL WELDING CODE REINFORCING STEEL".

    A. EXCEPT FOR REINFORCING STEEL CONFORMING TO ASTM A706, DETERMINE CARBON EQUIVALENT OF ALL REINFORCING STEEL TO BE WELDED. SUBMIT WPS FOR ALL REINFORCING STEEL TO BE WELDED TO ARCHITECT (STRUCTURAL ENGINEER) FOR REVIEW AND TO GOVERNING CODE AUTHORITY FOR APPROVAL PRIOR TO EXECUTION. WPS SHALL INCLUDE:

       1. SKETCH OF JOINT DESCRIBING GEOMETRY AND APPLICABLE DIMENSIONS, WELD TYPE AND SIZE, SEQUENCE OF WELD DEPOSITION, AND MAXIMUM LAYER THICKNESS AND BEAD WIDTHS.
       2. APPLICABLE WELD PROCESS.
       3. FILLER METAL PER AWS STANDARD AND ELECTRODE SPECIFICATION AND CLASSIFICATION, AS WELL AS \ DETAILS OF SHIELDING MATERIAL.
       4. ELECTRICAL CHARACTERISTICS FOR WELD PROCESS USED SUCH AS TYPE OF CURRENT AND ACCEPTABLE RANGE OF CURRENT MEASURED IN AMPERAGE, VOLTAGE RANGE, AND ELECTRODE DIAMETER. FOR WELD FEED PROCESS, INDICATE MANUFACTURER RECOMMENDED WIRE SPEED, MELT OFF RATE AND DEPOSITION RATE.
       5. PREHEAT TEMPERATURES.
       6. PROCEDURE QUALIFICATION RECORDS (PQR) FOR ALL WPS QUALIFIED BY TESTING.

    B. WELDERS SHALL BE CERTIFIED TO CONFORM WITH AWS STANDARDS AND APPROVED BY THE GOVERNING CODE AUTHORITY.

11. REINFORCING STEEL BENDS SHALL BE MADE COLD. RE-BENDING OF PREVIOUSLY BENT REINFORCING IS NOT PERMITTED.

12. All REINFORCING STEEL SHALL BE SECURELY HELD IN PLACE WHILE PLACING CONCRETE. IF REQUIRED, ADDITIONAL BARS OR STIRRUPS SHALL BE PROVIDED BY THE CONTRACTOR TO FURNISH SUPPORT FOR ALL REINFORCING.

13. ALL REINFORCING STEEL SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE WHEN FINAL INSPECTION IS CONDUCTED.

METAL DECKING

1. METAL DECKING SHALL BE OF GAGE AND PROFILE AS INDICATED ON THE DRAWINGS, BY MANUFACTURER(S) SPECIFIED.

2. METAL DECKING AND ACCESSORIES SHALL BE COLD FORMED FROM GALVANIZED STEEL SHEETS COMPLYING WITH ASTM A653-SS GRADE 33 (MINIMUM), HAVING A MINIMUM YIELD STRENGTH OF 38,000 PSI, WITH COATING DESIGNATION G60. GALVANIZING SHALL BE BY THE HOT-DIP PROCESS COMPLYING WITH ASTM A924.

3. MINIMUM BEARING OF METAL DECKING ON SUPPORTS SHALL BE 2 INCHES. ATTACH METAL DECKING TO SUPPORTING STEEL MEMBERS BY WELDING AS SPECIFIED ON THE DRAWINGS AND AS RECOMMENDED BY DECK MANUFACTURER USING E60 OR E70 ELECTRODES. DECK WELDING SHALL BE IN COMPLIANCE WITH ANSI/AWS D1.3. WELDERS SHALL BE AWS CERTIFIED AS REQUIRED BY THE GOVERNING CODE AUTHORITY.

4. DECKING IS DESIGNED FOR UNSHORED CONSTRUCTION TO MAXIMUM SPANS INDICATED ON THE DRAWINGS. SUBJECT TO APPROVAL BY THE ARCHITECT (STRUCTURAL ENGINEER), PROVIDE ADEQUATE SHORING OR HEAVIER GAUGE DECK WHERE MAXIMUM SPANS ARE EXCEEDED. DECKING SHALL BE CONTINUOUS OVER THREE SPANS WHERE POSSIBLE.

5. HOURLY FIRE RESISTIVE REQUIREMENTS FOR FLOOR AND ROOF DECKS SHALL BE DETERMINED USING CBC TABLE 601. BUILDING TYPES OF CONSTRUCTION AND FIREPROOFING MATERIALS ARE AS INDICATED ON THE ARCHITECTURAL DRAWINGS.

6. ROOF DECKING:

   A. FOR METAL DECK ONLY OR METAL DECK WITH INSULATING CONCRETE FILL:
      1. DO NOT SUSPEND PIPING OVER 1-1/2" DIAMETER, DUCTS LARGER THAN 12" X 16" (OR EQUIVALENT PERIMETER), OR OTHER LOADS WITH EXCEPTION OF SUSPENDED ACOUSTICAL CEILINGS AND INTEGRALLY SUPPORTED LIGHT FIXTURES FROM ROOF DECKING IN ACCORDANCE WITH DSA IR 25-2.13

7. AT COMPLETION OF METAL DECK ERECTION, ALL WELDS IN EXPOSED AREAS SHALL BE DE-SLAGGED, CLEANED AND PRIMED WITH A ZINC RICH PRIMER.

8. SUBMIT COMPLETE METAL DECKING SHOP DRAWINGS TO ARCHITECT (STRUCTURAL ENGINEER) FOR REVIEW PRIOR TO FABRICATION.

CAST-IN-PLACE CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO THE STANDARDS OF THE AMERICAN CONCRETE INSTITUTE, ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AND ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE".

2. CONCRETE SHALL ATTAIN THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT 28-DAY (f'c), UNLESS NOTED OTHERWISE:

FOOTINGS	4,000 PSI	NORMAL WEIGHT
SLABS-ON-GRADE	4,000 PSI	NORMAL WEIGHT
ALL OTHER CONCRETE	4,000 PSI	NORMAL WIEGHT

3. PORTLAND CEMENT SHALL CONFORM TO ASTM C150, TYPE V

4. AGGREGATES FOR NORMAL WEIGHT CONCRETE (145 PCF) SHALL CONFORM TO ASTM C33.

5. MAXIMUM AGGREGATE SIZE SHALL BE 1-1/2 INCHES FOR FOUNDATIONS AND 1 INCH ELSEWHERE, BUT NO LARGER THAN (A) 1/5 THE NARROWEST DIMENSION BETWEEN SIDES OF FORMS, (B) 1/3 THE DEPTH OF SLABS. SMALLER AGGREGATE SIZES MAY BE ALLOWED WITH THE APPROVAL OF THE ARCHITECT (STRUCTURAL ENGINEER).

6. MAXIMUM SLUMP SHALL BE 4 INCHES TYPICALLY AND 4 INCHES IN FLATWORK, UNLESS A HIGH-RANGE WATER REDUCING ADMIXTURE (SUPERPLASTICIZER) IS USED IN THE CONCRETE MIX PROPORTIONS.

7. CONCRETE SHRINKAGE SHALL BE LIMITED TO 0.05 PERCENT AS DETERMINED BY ASTM C157.

8. WATER CEMENT RATIO SHALL NOT EXCEED 0.45 FOR ALL FLATWORK THAT RECEIVES A MOISTURE SENSITIVE ADHESIVE TO AFFIX FLOOR FINISHES AND 0.45 ELSEWHERE.

9. CONCRETE MIX PROPORTIONING SHALL BE BASED ON FIELD EXPERIENCE AND/OR TRIAL MIXTURES AS STIPULATED IN ACI 318 CHAPTER 5. SUBMIT CONCRETE MIX PROPORTIONING DATA, INCLUDING HISTORICAL STRENGTH RECORDS AND/OR RESULTS OF TRIAL MIXTURES, FOR EACH TYPE AND COMPRESSIVE STRENGTH OF CONCRETE. CONCRETE MIX PROPORTIONING SHALL BE SIGNED AND SEALED BY A PROFESSIONAL CIVIL OR STRUCTURAL ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS CONSTRUCTED AND SHALL BE SUBMITTED TO THE ARCHITECT (STRUCTURAL ENGINEER) FOR REVIEW AND APPROVAL.

10. CONCRETE MIXING SHALL CONFORM TO ASTM C94.

11. SUBMIT SHOP DRAWINGS INDICATING LOCATIONS OF CONCRETE CONSTRUCTION JOINTS TO THE ARCHITECT (STRUCTURAL ENGINEER) FOR REVIEW AND APPROVAL PRIOR TO PLACING CONCRETE. LOCATE CONSTRUCTION JOINTS TO MINIMIZE EFFECTS OF SHRINKAGE AND AT POINTS OF LOW STRESS. HORIZONTAL CONSTRUCTION JOINTS ARE NOT PERMITTED IN BEAMS AND SLABS UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS OR APPROVED BY THE ARCHITECT (STRUCTURAL ENGINEER) PRIOR TO CONSTRUCTION.

12. EMBED ONLY ELECTRICAL CONDUITS/PIPES 1 INCH OUTSIDE DIAMETER AND SMALLER IN STRUCTURAL CONCRETE. LOCATE ELECTRICAL CONDUITS/PIPES A MINIMUM OF 4 INCHES APART AND WITHIN THE MIDDLE THIRD OF SLABS. CROSSING OF ELECTRICAL CONDUIT IS NOT PERMITTED WITHOUT THE PRIOR WRITTEN CONSENT OF THE ARCHITECT (STRUCTURAL ENGINNER).

13. PROVIDE SLEEVES FOR ELECTRICAL AND PLUMBING OPENINGS. IF CONFLICT OCCURS BETWEEN REINFORCING AND SLEEVES, REPOSITION REINFORCING OR SLEEVES OR BOTH. DO NOT CUT ANY REINFORCING. CORING IS NOT PERMITTED.

14. PRIOR TO PLACING CONCRETE, REINFORCING BARS, EMBEDDED PLATES, ANCHOR BOLTS, AND OTHER CONCRETE EMBEDMENTS SHALL BE WELL SECURED IN POSITION.

15. CONCRETE PLACEMENT SHALL CONFORM TO ACI 304 AND CONTRACT DOCUMENTS. INTENTIONALLY ROUGHEN ALL HARDENED CONCRETE SURFACES TO A FULL AMPLITUDE OF 1/4-INCH AGAINST WHICH FRESH CONCRETE IS PLACE.

16. PROVIDE KEYED CONSTRUCTION JOINT WHERE INDICATED ON DRAWINGS. CLEAN, REMOVE LAITANCE, THOROUGHLY WET, AND REMOVE STANDING WATER IMMEDIATELY BEFORE PLACING FRESH CONCRETE.

17. FORMS SHALL BE CONSTRUCTED TO PROVIDE CAMBER AS SPECIFIED ON THE DRAWINGS. CONCRETE SLAB THICKNESS SHALL BE MAINTAINED.

18. FORM EXPOSED CORNERS OF COLUMNS, BEAMS AND WALLS WITH A 3/4-INCH CHAMFER, UNLESS NOTED OTHERWISE ON ARCHITECTURAL DRAWINGS.

19. CONCRETE SHALL BE MAINTAINED ABOVE 50 DEGREES FAHRENHEIT AND IN A MOIST CONDITION FOR A MINIMUM OF 7 DAYS AFTER PLACEMENT UNLESS OTHERWISE ACCEPTED BY ARCHITECT (STRUCTURAL ENGINEER).

20. CURING COMPOUNDS, SEALERS, HARDENERS, ETC., USED ON CONCRETE THAT RECEIVES A FINISH SHALL BE APPROVED BY THE ARCHITECT BEFORE USE.

21. GROUT SHALL BE NON-SHRINK, NON-METALLIC, SHALL NOT CONTAIN CHLORIDES, AND SHALL ATTAIN A 28-DAY COMPRESSIVE STRENGTH OF 6,000 PSI, CONFORMING TO ASTM C-1107.

22. LEAN CONCRETE SHALL CONTAIN 2 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE. USE ONLY WHERE SPECIFICALLY INDICATED.

REINFORCING STEEL

1. REINFORCING STEEL SHALL BE PLACED IN ACCORDANCE TO AMERICAN CONCRETE INSTITUTE ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" AND CONCRETE REINFORCING STEEL INSTITUTE (CRSI) "MANUAL OF STANDARD PRACTICE".

2. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE. BARS TO BE WELDED SHALL CONFORM TO LOW ALLOY ASTM A706.

3. WELDED WIRE REINFORCEMENT (WWR) SHALL CONFORM TO ASTM A185. LAP WELDED WIRE REINFORCEMENT 1-1/2 MESHES OR ONE FOOT MINIMUM, 1 SPACING OF CROSS WIRES & 2" MINIMUM.

4. DEFORMED BAR ANCHORS (DBA) SHALL BE NELSON STUD WELDING, INC. TYPE D2L (ICC EVALUATION SERVICE REPORT ER-2907), OR AN APPROVED EQUAL, AND SHALL BE MADE FROM DEFORMED STEEL WIRE CONFORMING TO ASTM A496, WITH A MINIMUM YIELD STRENGTH OF 70 KSI AND A MINIMUM TENSILE STRENGTH OF 80 KSI.

5. PREPARE REINFORCING STEEL SHOP DRAWINGS IN ACCORDANCE TO ACI 315, PART B. SHOP DRAWINGS MAY BE PREPARED MANUALLY OR BY COMPUTER. PLACING DRAWINGS SHALL BE PREPARED TO THE SAME STANDARD AS CONTRACT DRAWINGS. SHOW REINFORCING PLACEMENT, SPLICE LOCATIONS, REINFORCING LENGTHS, DETAILS, ELEVATIONS, BEND DETAILS, ETC. SUBMIT TO ARCHITECT (STRUCTURAL ENGINEER) FOR REVIEW PRIOR TO FABRICATION. PROMPTLY NOTIFY ARCHITECT (STRUCTURAL ENGINEER) PRIOR TO DEVELOPING REINFORCING STEEL SHOP DRAWINGS IF INSUFFICIENT CLEAR DISTANCES BETWEEN REINFORCING STEEL OR OTHER CONGESTION IS ENCOUNTERED. DEVIATIONS FROM THE CONTRACT DOCUMENTS SHALL BE CLEARLY IDENTIFIED ON THE SHOP DRAWINGS. IF SUBMITTAL IS PARTIAL, CLEARLY INDICATE ITEM EXCLUDED FROM SUBMITTAL SHOP DRAWINGS WILL BE REJECTED IF NOT PREPARED TO THE STANDARDS STATED ABOVE.

6. REINFORCING STEEL SHALL BE SPLICED AS SHOWN ON THE DRAWINGS. IF NOT SHOWN, LOCATE SPLICES IN AREAS OF MINIMUM STRESS. LAP (SPLICE) LENGTHS ARE AS INDICATED ON THE DRAWINGS.

7. MINIMUM CLEARANCES BETWEEN PARALLEL REINFORCING STEEL INCLUDING SPLICED BARS SHALL BE ONE INCH, ONE BAR DIAMETER, OR 4/3 TIMES THE MAX SIZE AGGREGATE, WHICHEVER IS GREATER. PROVIDE 1 1/2 INCHES OR 1 1/2 BAR DIAMETERS, WHICHEVER IS GREATER, AT COLUMNS ONLY. FOR BUNDLED BARS, MINIMUM CLEAR DISTANCES BETWEEN UNITS OF BUNDLED BARS SHALL BE SAME AS SINGLE BARS EXCEPT BAR DIAMETER IS DERIVED FROM EQUIVALENT TOTAL AREA OF BUNDLE.

GENERAL (CONTINUED)

21. SEE ARCHITECTURAL DRAWINGS FOR:
    A. SIZE AND LOCATION OF DOOR AND WINDOW OPENINGS IN STRUCTURAL WALLS
    B. SIZE AND LOCATION OF FLOOR AND ROOF OPENINGS AND SLAB EDGES
    C. SIZE AND LOCATION OF NON-BEARING CMU WALLS AND OPENINGS THEREIN
    D. SIZE AND LOCATION OF CONCRETE CURBS, SLOPES, DEPRESSIONS, CHANGES IN LEVEL, CHAMFERS AND REVEALS, INSERTS FOR FINISH SYSTEMS
    E. EXTERIOR WALL SYSTEM AND LOCATION
    F. STAIR SIZE AND LOCATION, FRAMING AND DETAILS
    G. DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS

22. SEE MECHANICAL, ELECTRICAL, PLUMBING DRAWINGS FOR:
    A. SIZE AND LOCATION OF EQUIPMENT PADS, EQUIPMENT ANCHORAGE TO STRUCTURE, AND EQUIPMENT WEIGHTS
    B. ANCHORAGE OF DUCTWORK, PIPING, ELECTRICAL CONDUITS TO STRUCTURE
    C. ELECTRICAL CONDUIT RUNS, OUTLETS AND BOXES IN CONCRETE SLABS AND WALLS
    D. PIPE SLEEVES, TRENCHES, AND OPENINGS THROUGH WALLS AND SLABS FOR DUCTWORK, PIPE RUNS, ELECTRICAL CONDUIT RUNS

23. MECHANICAL, ELECTRICAL AND PLUMBING LOADS SHALL BE SUPPORTED FROM BEAMS.

FOUNDATIONS

1. DESIGN OF FOUNDATION SYSTEM BASED ON RECOMMENDATIONS IN "GEOTECHNICAL EVALUATION" BY NINYO AND MOORE, DATED JULY 18, 2014, AND ALL SUBSEQUENT ADDENDA. "GEOTECHNICAL EVALUATION PROPOSED IMPROVEMENTS ADJACENT TO THE T-BUILDING", AND ADDENDA SHALL BE CONSIDERED PART OF THESE CONTRACT DOCUMENTS AND SHALL BE KEPT AT JOB SITE AT ALL TIMES.

2. ISOLATED SPREAD FOOTING AND CONTINUOUS SPREAD FOOTING DESIGN BASED ON ALLOWABLE NET BEARING PRESSURES OF 3000 PSF. BOTTOM OF FOOTINGS SHALL BE A MINIMUM OF 18 INCHES BELOW LOWEST ADJACENT FLOOR OR GRADE AND INTO RECOMMENDED BEARING MATERIAL (CERTIFIED FILL OR UNDISTURBED ALLUVIUM. ISOLATED FOOTINGS SHALL NOT BE LESS THAN 24 INCHES WIDE AND CONTINIOUS FOOTINGS SHALL NOT BE LESS THAN 15 INCHES WIDE. ALLOWABLE BEARING PRESSURES INCREASED 33% FOR SEISMIC OR WIND LOADING.

3. RESISTANCE TO LATERAL LOADS PROVIDED BY FRICTION AGAINST BASE AND SIDES OF FOUNDATIONS AND BY PASSIVE EARTH PRESSURES. ALLOWABLE COEFFICIENT OF FRICTION IS 0.35 AND ALLOWABLE PASSIVE PRESSURE FOR SIDES CAST AGAINST UNDISTURBED OR RECOMPACTED SOIL IS EQUIVALENT TO A FLUID DENSITY OF 250 PCF. PER THE GEOTECHNICAL REPORT, THE ALLOWABLE LATERAL RESISTANCE CAN BE TAKEN AS THE SUM OF THE FRICTIONAL RESISTANCE AND PASSIVE RESISTANCE, PROVIDED THE PASSIVE RESISTANCE DOES NOT EXCEED ONE-HALF OF THE TOTAL ALLOWABLE RESISTANCE.

4. FOUNDATIONS MAY BE CAST DIRECTLY AGAINST EXCAVATIONS PROVIDED EXCAVATION IS CAPABLE OF MAINTAINING A VERTICAL CUT WITHOUT SLOUGHING FOR A PERIOD OF AT LEAST 72 HOURS. FOUNDATION SHALL BE CAST NO MORE THAN 72 HOURS AFTER FOOTING EXCAVATION. FOUNDATION DIMENSION SHALL BE ENLARGED BY AN ADDITIONAL ONE INCH FOR THE SIDE CAST AGAINST EARTH.

5. EXCAVATION, BACKFILL, AND COMPACTION SHALL BE DONE IN STRICT ACCORDANCE WITH "GEOTECHNICAL EVALUATION PROPOSED IMPROVEMENTS ADJACENT TO THE T-BUILDING" RECOMMENDATIONS.

6. FOUNDATION EARTHWORK SHALL BE OBSERVED BY A QUALIFIED GEOTECHNICAL ENGINEER, RETAINED BY OWNER AND SATISFACTORY TO ARCHITECT (STRUCTURAL ENGINEER) AND GOVERNING CODE AUTHORITY. PERFORM REQUIRED OBSERVATIONS OF THIS CONTRACT AND CBC SECTION 1705A.6.

7. FOUNDATION EXCAVATION, BACKFILLING, AND COMPACTION SHALL BE OBSERVED AND APPROVED BY A GEOTECHNICAL ENGINEER AND THE GOVERNING AGENCY PRIOR TO PLACING REINFORCING STEEL AND CONCRETE. GEOTECHNICAL ENGINEER SHALL PROVIDE A LETTER OF COMPLIANCE TO THE OWNER.

8. TEMPORARY CUT SLOPES SHALL NOT EXCEED THOSE RECOMMENDED IN GEOTECHNICAL INVESTIGATION REPORT. DO NOT PERMIT ANY PERSON TO DESCEND INTO TRENCHES OR EXCAVATIONS GREATER THAN FIVE FEET IN DEPTH UNLESS NECESSARY PERMIT FROM STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY IS OBTAINED PRIOR TO ISSUANCE OF BUILDING OR GRADING PERMIT. CONTRACTOR TO PROVIDE FOR
9. DESIGN, PERMIT, AND INSTALLATION OF ALL SHORING AND SHEATHING NECESSARY TO SAFELY RETAIN EARTH BANKS.

10. CONTRACTOR TO PROVIDE FOR DEWATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER OR SEEPAGE. DEWATERING SHALL EFFECTIVELY ELIMINATE ANY HYDROSTATIC PRESSURE ON SHORING. ENSURE THAT CONTAMINATED WATER IS NOT DISPOSED OF IN PUBLIC SEWER OR STORM DRAIN SYSTEM AND ENSURE THAT DIRTY WATER IS NOT DISPOSED OF INTO PUBLIC RIGHT-OF-WAY.

11. UNLESS ADEQUATELY BRACED AND SHORED, RETAINING WALLS SHALL NOT BE BACKFILLED UNTIL WALLS HAVE ATTAINED FULL DESIGN STRENGTH. FOR PIT WALLS AND BUILDING WALLS BELOW GRADE, BRACING AND SHORING SHALL REMAIN IN PLACE UNTIL ATTACHED FLOORS ARE PLACED, CURED FOR AT LEAST 7 DAYS, AND HAVE ATTAINED FULL DESIGN STRENGTH. BACKFILL PLACED IMMEDIATELY BEHIND RETAINING WALLS SHALL BE COMPACTED WITH HAND OPERATED EQUIPMENT.

12. SIDEWALKS OR PAVING IMMEDIATELY ADJACENT TO BUILDING PERIMETER SHALL BE SLOPED TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING. LANDSCAPE IRRIGATION IS NOT PERMITTED WITHIN FIVE FEET OF BUILDING PERIMETER FOOTINGS EXCEPT WHEN ENCLOSED IN PROTECTED PLANTERS THAT DIRECT DRAINAGE AWAY FROM STRUCTURE AND FOUNDATIONS. DISCHARGE FROM DOWNSPOUTS, ROOF DRAINS AND SCUPPERS IS NOT PERMITTED ONTO UNPROTECTED SOILS WITHIN FIVE FEET OF BUILDING PERIMETER.

PROJECT INSPECTOR

THE PROJECT INSPECTOR (PI) SHALL HAVE CLASS I CLASSIFICATION AND BE APPROVED BY DSA AS REQUIRED BY INTERPRETATION OF REGULATION (IR) A-7.

GENERAL

1. ALL WORK SHALL CONFORM TO THE STANDARDS OF THE CALIFORNIA BUILDING CODE, 2013 EDITION, AS AMENDED BY THE DIVISION OF THE STATE ARCHITECT, AND THOSE CODES AND STANDARDS LISTED IN THE CONTRACT DOCUMENTS.

2. THE PROJECT MANUAL FORMS A PART OF THESE GENERAL NOTES. CODES, STANDARDS, AND SPECIFICATIONS, INCLUDING ADDENDA AND SUPPLEMENTS, REFERENCED IN THE CONTRACT DOCUMENTS SHALL BE THE LATEST APPROVED ISSUE, UNLESS SPECIFICALLY NOTED.

3. NOTES AND DETAILS ON DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. IF CONFLICT OCCURS BETWEEN THE CONTRACT DRAWINGS AND THE PROJECT MANUAL, IMMEDIATELY NOTIFY ARCHITECT (STRUCTURAL ENGINEER) FOR RESOLUTION. DIMENSIONS TAKE PRECEDENCE OVER SCALED DRAWINGS.

4. DESIGN LIVE LOAD: = 20 PSF (REDUCIBLE)

5. RISK CATEGORY: = I (MINOR STORAGE FACILITIES)

6. CODE LEVEL WIND DESIGN DATA: = 100 MPH

7. BASIC WIND SPEED

EXPOSURE CATEGORY		= C
ENCLOSURE CLASSIFICATION		= ENCLOSED BUILDING
INTERNAL PRESSURE COEFFICIENT, GCpi		= ± 0.18

DESIGN WIND PRESSURE FOR COMPONENT AND CLADDING (EFFECTIVE WIND AREA = 20 S.F.)

REGION 4	MIN	=-21.8 PSF
	MAX	= 20.1 PSF
REGION 5	MIN	=-26.3 PSF
	MAX	= 20.1 PSF

8. CODE LEVEL EARTHQUAKE DESIGN DATA:

SITE COORDINATES (MS STREETS & TRIPS)	= 33.1532°N, -117.1848°W
MAPPED SPECTRAL RESPONSE ACCELERATION, SS	= 1.020g
MAPPED SPECTRAL RESPONSE ACCELERATION, S1	= 0.40g
SITE CLASS	= B
DESIGN SPECTRAL RESPONSE COEFFICIENT, SDS	= 0.680g
DESIGN SPECTRAL RESPONSE COEFFICIENT, SD1	= 0.266g
SHORT-PERIOD SITE COEFFICIENT, Fa	= 1.00
LONG-PERIOD SITE COEFFICIENT, Fv	= 1.00
SEISMIC DESIGN CATEGORY	= D

9. APPLICABLE HORIZONTAL IRREGULAR = NONE

   APPLICABLE VERTICAL IRREGULARITIES = NONE

   SEE "SEISMIC DESIGN CRITERIA" TABLE ON THIS SHEET FOR THE FOLLOWING INFORMATION FOR EACH BUILDING:
   OCCUPANCY CATEGORY
   IMPORTANCE FACTOR, I
   ANALYTICAL PROCEDURE
   SEISMIC RESPONSE COEFFICIENT, CS
   BASIC SEISMIC-FORCE RESISTING SYSTEM
   RESPONSE MODIFICATION FACTOR, R
   DESIGN BASE SHEAR (EAST-WEST)
   DESIGN BASE SHEAR (NORTH-SOUTH)

10. GOVERNING CODE AUTHORITY: CALIFORNIA DEPARTMENT OF GENERAL SERVICES, DIVISION OF THE STATE ARCHITECT (DSA).

11. CONTRACT DOCUMENTS INDICATE INFORMATION SUFFICIENT TO CONVEY DESIGN INTENT. REVIEW CONTRACT DOCUMENTS AND VERIFY FIELD AND EXISTING CONDITIONS. PROMPTLY NOTIFY ARCHITECT (STRUCTURAL ENGINEER), PRIOR TO PROCEEDING WITH WORK, IF FURTHER CLARIFICATION OF DESIGN INTENT IS NEEDED.

12. VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND NOTIFY THE ARCHITECT (STRUCTURAL ENGINEER) OF ANY DISCREPANCIES.

13. PERFORM STRUCTURAL RELATED WORK AND DEVELOP SHOP DRAWINGS CONSIDERING CONTRACT DOCUMENTS IN THEIR ENTIRETY. CONDITIONS NOT SPECIFICALLY DETAILED SHALL BE CONSTRUCTED AS DETAILED FOR SIMILAR WORK.

14. CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE MEANS AND METHODS OF CONSTRUCTION. PROVIDE ALL NECESSARY MEASURES TO PROTECT THE STRUCTURE DURING CONSTRUCTION. COMPLY WITH THE STATE OF CALIFORNIA, DIVISION OF OCCUPATIONAL SAFETY AND HEALTH REGULATIONS. CONSTRUCTION MATERIALS, IF PLACED ON FRAMED FLOORS AND ROOFS, SHALL BE SPREAD OUT SUCH THAT THE DESIGN LIVE LOAD PER SQUARE FOOT IS NOT EXCEEDED. PROVIDE ADEQUATE SHORING IF OVERLOAD IS ANTICIPATED OR WHERE STRUCTURAL ELEMENTS HAVE NOT ATTAINED DESIGN STRENGTH. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT CONSTITUTE ACCEPTANCE OF CONSTRUCTION MEANS AND METHODS.

15. SUBMIT SHOP DRAWINGS FOR REVIEW BEFORE FABRICATION. CONTRACTOR SHALL REVIEW FOR COMPLETENESS AND COMPLIANCE WITH CONTRACT DOCUMENTS PRIOR TO SUBMISSION TO ARCHITECT (STRUCTURAL ENGINEER). ARCHITECT'S (STRUCTURAL ENGINEER'S) REVIEW IS FOR GENERAL CONFORMANCE WITH DESIGN INTENT AND DOES NOT CONSTITUTE AN AUTHORIZATION TO DEVIATE FROM TERMS AND CONDITIONS OF CONTRACT. WHEN INDICATED, THE SUBMITTAL SHALL BE SIGNED AND SEALED BY A PROFESSIONAL CIVIL OR STRUCTURAL ENGINEER LICENSED IN THE STATE OF CALIFORNIA. MAINTAIN AT SITE A COPY OF REVIEWED AND ACCEPTED SUBMITTALS.

16. MODIFICATIONS AND SUBSTITUTIONS MUST BE ACCEPTED IN WRITING BY ARCHITECT (STRUCTURAL ENGINEER). NO MODIFICATION OR SUBSTITUTION WILL BE ACCEPTED VIA SHOP DRAWING REVIEW. MANUFACTURED MATERIALS SHALL BE APPROVED BY THE GOVERNING CODE AUTHORITY PRIOR TO THEIR USE. ADHERE TO ALL CONDITIONS OF THOSE APPROVALS.

17. EQUIPMENT MANUFACTURER SHALL PROVIDE EQUIPMENT ANCHORAGE TO THE STRUCTURE MEETING THE REQUIREMENTS OF ASCE/SEI 7, CHAPTER 13.6.

18. PIPING AND DUCTWORK BRACING SHALL BE IN ACCORDANCE WITH THE SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION (SMACNA) "SEISMIC RESTRAINT MANUAL - GUIDELINES FOR MECHANICAL SYSTEMS", INCLUDING ADDENDA, OSHPD EDITION- 2009, UNO PER MEP ANCHORAGE AND BRACING NOTES.

19. "TYPICAL DETAILS" ARE APPLICABLE THROUGHOUT CONSTRUCTION DOCUMENTS AND MAY NOT BE SPECIFICALLY REFERENCED THEREIN. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING THESE TYPICAL DETAILS AND UNDERSTANDING EXTENT OF THEIR APPLICATION PRIOR TO PERFORMING WORK.

20. UNLESS SPECIFICALLY SHOWN ON THE PLANS NO STRUCTURAL MEMBER SHALL BE CUT, DRILLED OR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER.

SEISMIC DESIGN CRITERIA TABLE

BUILDING	OCCUPANCY CATEGORY	IMPORTANCE FACTOR	BASIC SEISMIC LOAD RESISTING SYSTEM (SLRS)	ANALYTICAL PROCEDURE	RESPONSE MODIFICATION FACTOR, R	REDUNDANCY FACTOR ρ	NORTH - SOUTH			EAST - WEST		
							SEISMIC RESPONSE COEFFICIENT C_S	DESIGN BASE SHEAR (STRENGTH LEVEL)	MAXIMUM INELASTIC DISPLACEMENT ΔM	SEISMIC RESPONSE COEFFICIENT C_S	DESIGN BASE SHEAR (STRENGTH LEVEL)	MAXIMUM INELASTIC DISPLACEMENT ΔM
1	I	1.0	ORDINARY MOMENT FRAME (OMF)	EQUIVALENT LATERAL FORCE	3.5	1.3	0.194	25K	5.7"	0.194	22K	5.7"
2	I	1.0	ORDINARY MOMENT FRAME (OMF)	EQUIVALENT LATERAL FORCE	3.5	1.3	0.194	20K	5.9"	0.194	20K	5.9"
3	I	1.0	ORDINARY MOMENT FRAME (OMF)	EQUIVALENT LATERAL FORCE	3.5	1.3	0.194	25K	5.7"	0.194	22K	5.7"

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Project #15621

Key Plan

Consultant Seal

REGISTERED PROFESSIONAL ENGINEER — JOSEPH CHRISTOPHER CRAWFORD — No. S5382 — EXP. 12/31/18 — STRUCTURAL — STATE OF CALIFORNIA

Agency Approval FILE NO. 37-C1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 04-115420
ACS — FLS — SSS KB
DATE OCT 18 2017

Project Title

PALOMAR COLLEGE®
Learning for Success

PALOMAR COLLEGE
NEW STORAGE BUILDINGS
1140 W. MISSION RD.
SAN MARCOS, CA 92069
(760) 744-1150

No.	Description	Date

Drawing Title:
GENERAL NOTES

Architect's Seal

REGISTERED ARCHITECT — KENNETH N. SAUER — NO. C-19082 — REN. 11-30-18 — STATE OF CALIFORNIA

Designed:	JC	Project No.	3443001-302
Drawn:	JPR	Scale:	12" = 1'-0"
QA/QC	RR	Drawing No.	S0.1
Date:	10/18/2017		

DSA APPROVAL

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PLEASE RECYCLE

POST INSTALLED ANCHORS

1. ALL POST INSTALLED ANCHORS SHALL COMPLY WITH REQUIREMENTS OF THE CORRESPONDING ICC-ESR REPORTS.
2. POST-INSTALLED ANCHORS OF EQUAL QUALITY AND WITH CURRENT ICC-ES REPORT MAY BE SUBSTITUTED IF APPROVED BY THE ARCHITECT (STRUCTURAL ENGINEER), AND DSA
3. DRILL AND EPOXY ANCHORS:
   A. "HILTI HIT-RE500-V6" EPOXY ANCHORS IN WITH ICC-ES REPORT NO. 3814 FOR CONCRETE.
   B. SIMPSON SET-XP ADHESIVE ANCHOR SYSTEM (ICC-ES REPORT NO. ESR-2508)
4. EXPANSION ANCHORS:
   A. HILTI KWIK BOLT TZ (CARBON STEEL) EXPANSION ANCHORS IN ACCORDANCE WITH ICC REPORT ESR-1917.
5. SCREW ANCHORS:
   A. HILTI KWIK HUS-EZ STEEL SCREW ANCHOR (ICC-ES REPORT NO. ESR-3027
6. POWDER DRIVEN FASTENERS: LOW-VELOCITY POWDER DRIVEN FASTENERS IN ACCORDANCE WITH ICC REPORT NO. ESR-2269.
7. INSTALLATION: PER MANUFACTURER'S WRITTEN INSTRUCTIONS AND REFERENCED ICC EVALUATION REPORT.
   A. DRILLING HOLES IN EXISTING CONCRETE OR MASONRY: USE ONLY NON-REBAR CUTTING DRILL BITS TO DRILL HOLES. LOCATE EXISTING REBAR BY NON-DESTRUCTIVE MEANS PRIOR TO DRILLING HOLES. DO NOT CUT OR DAMAGE EXISTING REBAR. PROVIDE MINIMUM 1" CLEARANCE BETWEEN REINFORCING AND ANCHOR.
   B. DELETERIOUS MATERIALS: KEEP ANCHORS FREE OF DUST,GREASE, AND OTHER MATERIALS WHICH WILL IMPAIR BOND WITH CONCRETE.
   C. ALL ANCHORS SHALL MEET THE MINIMUM EMBEDMENT AND SPACING, EDGE DISTANCE AND SIDE THICKNESS CRITERIA ESTABLISHED BY THE RELEVANT ICC-ES REPORT AND AS INDICATED ON PLANS, WHICHEVER ARE GREATER. UNLESS NOTED OTHERWISE IN REPORT, ANCHOR EDGE DISTANCE SHALL BE A MINIMUM OF 10 BOLT DIAMETERS FROM ANY FREE EDGE OF THE SLAB AND SHALL BE SPACED A MINIMUM 12 BOLT DIAMETERS CENTER TO CENTER.
   D. DO NOT DRILL HOLES WITHIN 4 INCHES OF EXISTING ELECTRICAL OUTLETS THAT ARE EMBEDED IN SUBSTRATE.
8. BRING TO THE ATTENTION OF THE ARCHITECT (STRUCTURAL ENGINEER) ANY POST-INSTALLED ANCHOR LOCATION THAT CANNOT COMPLY WITH THE PARAMETERS STATED HEREIN AND INDICATED ON THE DRAWINGS.
9. TESTING AND INSTALLATION OF POST-INSTALLED ANCHORS SHALL COMPLY WITH THE FOLLOWING:

A. EPOXY ANCHORS

1. SHALLOW ANCHORS (EMBEDMENT LESS THAN 8 ANCHOR DIAMETERS) RESISTING DIRECT TENSION LOAD ARE NOT PERMITTED.
2. ANCHORS SHALL BE TENSION TESTED PER CBC SECTION - 1913A.7, AND SHALL EXHIBIT NO DISCERNABLE MOVEMENT DURING TESTING
3. THE TENSION TEST LOAD SHALL EQUAL TWICE THE ALLOWABLE STRESS LOAD FOR THE SPECIFIC LOCATION OF THE ANCHOR TO BE TESTED OR 80% OF THE YIELD STRENGTH OF THE BOLT, WHICHEVER IS LESS.
4. THE TEST PROCEDURE SHALL COMPLY WITH THAT OF EXPANSION TYPE ANCHORS LISTED ABOVE. HOWEVER, TORQUE TESTING OF EPOXY ANCHORS IS NOT PERMITTED.
5. WHERE EPOXY DOWELS ARE USED AS SHEAR DOWELS ACROSS COLD JOINTS IN SLABS ON GRADE, TESTING OF THESE DOWELS ARE NOT REQUIRED.

B. EXPANSION ANCHOR BOLTS

1. ALL FIELD INSTALLED CONCRETE EXPANSION ANCHORS SHALL BE APPROVED FOR THE TYPE AND INSTALLATION, FOR ITS APPLICATION, AND MATERIALS. ALL BOLTS SHALL HAVE AN APPROVED ICC EVALUATION REPORT.
2. ALL EXPANSION TYPE ANCHORS SHALL BE TENSION TESTED AS REQUIRED BY CBC 1913A.7 WHERE ANCHORS ARE USED FOR NON-STRUCTURAL APPLICATIONS SUCH AS EQUIPMENT ANCHORAGE, 50% OF ALL ANCHORS AND EACH BOLT GROUP SHALL BE TENSION TESTED.
3. ALL ANCHORS SHALL BE TESTED PER CORRESPONDING ICC-ESR REPORTS AND AS FOLLOWS:
   A. ANCHOR DIAMETER REFERS TO THE THREAD SIZE FOR A WEDGE AND SHELL CATEGORIES AND TO THE ANCHOR OUTSIDE DIAMETER FOR THE SLEEVE CATEGORY.
   B. APPLY PROOF TEST LOADS TO WEDGE AND SLEEVE ANCHORS WITHOUT REMOVING THE NUT IF POSSIBLE. IF NOT, REMOVE THE NUT AND INSTALL A THREADED COUPLER NUT TO THE SAME TIGHTNESS OF THE ORIGINAL NUT USING A TORQUE WRENCH AND APPLY LOAD.
   C. REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED. PROVIDED THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING BY THE FIXTURE(S) AND THAT THE CONCRETE FAILURE CONE IS NOT PREVENTED FROM FORMING.
   D. TEST EQUIPMENT SHALL BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD RECOGNIZED PROCEDURES.
   E. THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS:
      HYDRAULIC RAM METHOD: THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE APPLICABLE TEST LOAD. FOR WEDGE AND SLEEVE TYPE ANCHORS, A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER UNDER THE NUT BECOMES LOOSE.
      TORQUE WRENCH METHOD: THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN THE FOLLOWING LIMITS: WEDGE OR SLEEVE TYPE: ONE-HALF (1/2) TURN OF THE NUT ONE-QUARTER (1/4) TURN OF THE NUT FOR THE 3/8 IN. SLEEVE ANCHOR ONLY.
   F. REFER TO THE ANCHOR MANUFACTURER'S RECOMMENDED INSTALLATION TORQUE VALUES AS PUBLISHED IN THE RELEVANT ICC-ES REPORT.

C. LOW VELOCITY POWDER DRIVEN FASTENERS (SHOTPINS)

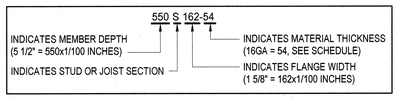
1. ALL FASTENERS TO COMPLY WITH ASCE 7-10 SECTION 13.4.5, CBC AND CBC SECTIONS 1908A.1.1 AND ANCHOR TEST PER CBC 1913A.7.
2. REFER TO "COLD FORM LIGHT GAGE FRAMING" NOTES FOR ADDITIONAL INFORMATION.

STRUCTURAL STEEL (CONTINUED)

17. HYDROGEN LEVEL FOR ELECTRODES USED IN SLRS WELDED JOINTS SHALL MEET THE REQUIREMENTS FOR H16 AS SPECIFIED IN ANSI/AISC 341, CHAPTER W, SECTION W5.2. ELECTRODES FOR ALL OTHER WELDS SHALL BE LOW HYDROGEN TYPE.
18. DETAILS, MATERIALS, WORKMANSHIP, AND TESTING AND INSPECTION REQUIREMENTS OF WELDED JOINTS COMPRISING THE SLRS SHALL CONFORM TO THE FOLLOWING APPLICABLE STANDARDS:
    A. AWS D1.1 "STRUCTURAL WELDING CODE - STEEL."
    B. AWS D1.8 "STRUCTURAL WELDING CODE - SEISMIC SUPPLEMENT."
    C. ANSI/AISC 341, "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS", CHAPTER J (QUALITY ASSURANCE PLAN).
    D. ANSI/AISC 358 "PREQUALIFIED CONNECTIONS FOR SPECIAL AND INTERMEDIATE STEEL MOMENT RESISTING FRAMES FOR SEISMIC APPLICATIONS."
19. WELD MATERIALS USED IN SLRS WELDED CONNECTIONS SHALL CONFORM TO THE FOLLOWING TOUGHNESS REQUIREMENTS:
    A. WELDED CONNECTIONS SHALL BE MADE WITH A FILLER METAL THAT CAN PRODUCE WELDS THAT HAVE A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT-LB AT 0°F AS DETERMINED BY THE APPROPRIATE AWS CLASSIFICATION TEST METHOD.
    B. WELDED CONNECTIONS DESIGNATED AS "DEMAND CRITICAL", SHALL BE MADE WITH A FILLER METAL CAPABLE OF PROVIDING A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT-LB AT -20°F AS DETERMINED BY THE APPROPRIATE AWS CLASSIFICATION TEST METHOD, AND 40 FT-LB AT 70°F AS DETERMINED BY CHAPTER X OF ANSI/AISC 341.
20. WELDING OF SHEET METAL AND METAL STUDS SHALL BE IN ACCORDANCE WITH AWS D1.3.

COLD-FORMED METAL FRAMING

1. THE DESIGN, INSTALLATION, AND CONSTRUCTION OF COLD-FORMED METAL FRAMING SHALL BE IN ACCORDANCE WITH AMERICAN IRON AND STEEL INSTITUTE (AISI) "NORTH AMERICAN SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" (S100) AND AISI "NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING - GENERAL PROVISIONS" (S200) AS AUGMENTED BY CBC SECTIONS 2210A AND 2211A.
2. COLD-FORMED METAL FRAMING INCLUDES METAL STUDS, TRACKS, JOISTS, STRAP BRACING, BRIDGING, END CLOSURES, AND ACCESSORIES. THESE GENERAL NOTES APPLY TO LOAD BEARING COLD-FORMED METAL FRAMING SHOWN ON STRUCTURAL DRAWINGS ONLY. NON-LOAD BEARING METAL STUDS AND FASTENERS ARE NOT SHOWN ON STRUCTURAL DRAWINGS. FOR INFORMATION ON NON-LOAD BEARING METAL STUDS SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
3. COLD-FORMED METAL FRAMING SHALL BE MANUFACTURED BY CURRENT MEMBERS OF THE STEEL STUD MANUFACTURERS ASSOCIATION (ICC-ES REPORT ESR-3064P) AND FORMED FROM GALVANIZED STEEL SHEETS CONFORMING TO ASTM A653-SS OR ASTM A1003 (TYPE H), GRADES AS FOLLOWS. GALVANIZING SHALL BE BY THE HOT-DIP PROCESS COMPLYING WITH COATING DESIGNATION G60.
   A. GRADE 33 (Fy=33 KSI) FOR THICKNESS 0.0451" (18 GAGE) & THINNER
   B. GRADE 50 (Fy=50 KSI) FOR THICKNESS 0.0566" (16 GAGE) & THICKER



4. PROVIDE UNPUNCHED TRACKS WITH DIMENSION AS REQUIRED TO ENSURE PROPER FIT OF STUDS. STUDS AND JOISTS SHALL HAVE STIFFENED FLANGES.
5. PROVIDE LATERAL BRIDGING FOR STUDS WHEN RIGID WALL FINISH DOES NOT CONTINUE FULL HEIGHT AND ATTACHED TO ONE OR BOTH SIDES OF STUDS. INSTALL HORIZONTAL STRAPS OR COLD-ROLLED CHANNELS AS SHOWN ON DRAWINGS AND IN ACCORDANCE WITH AISI-S100 AND AISI-S200 SPECIFICATIONS.
6. PLUMB, ALIGN AND TIGHTLY NEST STUDS AND BRACES IN BOTH UPPER AND LOWER TRACKS AND SECURE WITH ATTACHMENTS TO BOTH FLANGES OF TRACKS. STUDS MUST BE FULLY SEATED IN TRACKS AND FASTENED WITH SELF-DRILLING SCREWS OR WELDING. SPLICES IN STUDS AND BRACES ARE NOT PERMITTED.
7. SELF-DRILLING/SELF-TAPPING SHEET METAL SCREWS (SMS) SHALL BE HILTI SELF-DRILLING SCREWS MANUFACTURED BY HILTI, INC. (ICC-ES REPORT ESR-2196), OR APPROVED EQUAL. SMS SHALL BE NUMBER 10 MINIMUM AND SHALL PROTRUDE THROUGH THE ATTACHED MEMBERS THREE FULL THREADS, (1/4" INCH MINIMUM), BEYOND THE BACKSIDE OF THE ATTACHED MEMBERS. MINIMIN SPACING BETWEEN CENTERS OF FASTENERS AND MINIMUM DISTANCE FROM THE CENTER OF FASTENER TO THE EDGE OF ANY CONNECTED PART SHALL BE 3 TIMES THE NOMINAL DIAMETER OF THE SMS, EXCEPT WHEN THE EDGE IS PARALLEL TO THE DIRECTION OF APPLIED FORCE THE MINIMUM DISTANCE FROM THE CENTER OF FASTENER TO THE EDGE MAY BE 1.5 TIMES THE DIAMETER OF THE SMS.
8. FASTENERS TO CONCRETE SHALL BE HILTI LOW VELOCITY X-U UNIVERSAL POWDER DRIVEN FASTENERS (ICC-ES REPORT ESR-2269), OR APPROVED EQUAL, WITH 0.157 INCH SHANK DIAMETER EMBEDDED 1 1/4 INCH INTO CONCRETE USING STANDARD INSTALLATION METHOD. FASTENERS SHALL BE DRIVEN INTO CONCRETE AFTER CONCRETE HAS ATTAINED SPECIFIED STRENGTH WITH MINIMUM SPACING OF 4 INCHES AND MINIMUM EDGE DISTANCE OF 3 INCHES. CONCRETE THICKNESS MUST BE AT LEAST THREE TIMES THE PENETRATION DEPTH OF THE FASTENER.
9. FASTENERS TO STEEL SHALL BE AS FOLLOWS:
   A. HILTI LOW VELOCITY X-U UNIVERSAL POWDER DRIVEN FASTENERS (ICC-ES REPORT ESR-2269), OR APPROVED EQUAL, WITH 0.157 INCH SHANK DIAMETER AND DRIVEN THROUGH THE STEEL MEMBER WITH MINIMUM SPACING OF 1 INCH AND MINIMUM EDGE DISTANCE OF 1/2 INCH.
   B. HILTI KWIK-FLEX SELF-DRILLING FASTENERS (ICC REPORT ER-4780), OR APPROVED EQUAL. FASTENER MUST PROTRUDE THROUGH THE STEEL MEMBER WITH MINIMUM SPACING OF 1 INCH AND MINIMUM EDGE DISTANCE OF 1/2 INCH.
10. WELDING SHALL COMPLY WITH ANSI/AWS D1.3. WIRE TYING OF FRAMING COMPONENTS IS NOT PERMITTED.
    A. WELDER SHALL BE AWS CERTIFIED AS REQUIRED BY THE GOVERNING CODE AUTHORITY.
    B. PLUG, BUTT, FILLET OR SEAM WELD. WHERE WELDING BURN-THROUGH OCCURS, PROVIDE SUITABLE STITCH PLATE OF SAME GAUGE.
    C. ELECTRODES SHALL BE E60XX FOR 33 KSI MEMBERS AND E70XX FOR 50 KSI MEMBERS.
    D. TOUCH-UP GALVANIZED MEMBERS WITH ZINC-RICH PAINT.
11. BOXED AND OTHER BUILT-UP SECTIONS SHALL BE STITCHED TOGETHER WITH 1/8 INCH FILLET WELDS, 2 INCH LONG AT 12 INCH ON CENTER AT ALL SEAMS.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF ANSI/AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AND THE LATEST EDITION OF ANSI/AISC 341 "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS", AS AMENDED BY CALIFORNIA BUILDING CODE (CBC) SECTIONS 2203, 2204 AND 2205.
2. SEISMIC LOAD RESISTING SYSTEM (SLRS) IS DEFINED AS THE ASSEMBLY OF STRUCTURAL ELEMENTS IN THE BUILDING THAT RESISTS SEISMIC LOADS, INCLUDING COLUMNS, BEAMS, GIRDERS, STRUTS, COLLECTORS, CHORDS AND BRACES, AND THE CONNECTIONS BETWEEN THESE ELEMENTS, SPECIFICALLY DESIGNED TO RESIST SEISMIC FORCES, AS DESIGNATED ON THE DRAWINGS.
3. STRUCTURAL STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING ASTM STANDARDS, UNLESS NOTED OTHERWISE ON DRAWINGS:

WIDE FLANGE SHAPES	ASTM A992
CHANNELS, ANGLES, M- & S-SHAPES	ASTM A36
PIPES	ASTM A53, GRADE B (Fy=35 KSI)
ROUND HOLLOW STRUCTURAL SECTIONS	ASTM A500, GRADE B (Fy=42 KSI)
RECTANGULAR HOLLOW STRUCTURAL SECTIONS	ASTM A500, GRADE B (Fy=46 KSI)
PLATES	ASTM A36 (UNO)
PLATES USED IN SLRS	ASTM A572, GRADE 50
ANCHOR BOLTS	ASTM F1554, GRADE 36 (UNO)
ANCHOR BOLTS USED IN SLRS	ASTM F1554, GRADE 55 (WELDABLE)
UNFINISHED MACHINE BOLTS	ASTM A307
THREADED ROUND STOCK	ASTM A36

FURNISH READILY IDENTIFIABLE STRUCTURAL STEEL IN COMPLIANCE WITH CBC SECTION 2203.1.

4. HIGH STRENGTH BOLTS, NUTS AND WASHERS SHALL CONFORM TO THE RCSC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS", AS AMENDED BY CBC SECTION 2204.2. USE STANDARD HOLES UNLESS NOTED OTHERWISE.
   A. PROVIDE ASTM A325-N, TYPE I BEARING BOLTS WITH THREADS INCLUDED IN SHEAR PLANE, UNLESS NOTED OTHERWISE. PROVIDE ASTM A325-SC, SLIP-CRITICAL BOLTS AT CONNECTIONS IN SLRS AND WHERE SPECIFICALLY INDICATED. FAYING SURFACE FOR SLIP-CRITICAL CONNECTIONS SHALL BE CLASS A, UNLESS OTHERWISE NOTED.
   B. ASTM A325-N BOLTS SHALL BE SNUG TIGHTENED IN ACCORDANCE WITH RCSC SPECIFICATION SECTION 8.1, UNLESS NOTED OTHERWISE. FULLY TENSION ALL ASTM A325-SC BOLTS AND ALL BOLTS REQUIRED TO BE TENSIONED BY AISC SPECIFICATION SECTION J1.10 AND RCSC SPECIFICATION SECTION 4.2. FULLY TENSIONED BOLTS SHALL BE TIGHTENED TO THE MINIMUM TENSION USING TURN-OF-THE-NUT METHOD, CALIBRATED WRENCH METHOD, OR DIRECT TENSION INDICATOR TIGHTENING METHOD.
5. COMPOSITE STRUCTURAL BEAMS AND GIRDERS ARE DESIGNED FOR UNSHORED CONSTRUCTION UNLESS NOTED OTHERWISE.
6. ANCHOR STUDS SHALL BE NELSON TYPE S3L OR TYPE H4L FLUX-FILLED HEADED CONCRETE ANCHORS (ICC EVALUATION SERVICE REPORT ER-2856), OR AN APPROVED EQUAL, AND SHALL BE MADE FROM COLD DRAWN, LOW CARBON STEEL CONFORMING TO ASTM A108, GRADES C1010 THROUGH C1020, WITH A MINIMUM TENSILE STRENGTH OF 65 KSI. STUD WELDING TEST AND INSPECTION SHALL CONFORM TO AWS D1.1, CHAPTER 7.
7. PROVIDE UPWARD CAMBER TO ALL BEAMS SPECIFIED TO HAVE CAMBER. AMOUNT MEASURES IN THE FIELD PRIOR TO ERECTION SHALL NOT DEVIATE MORE THAN ALLOWED BY AISC SPECIFICATIONS. BEAMS WITHOUT SPECIFIED CAMBER SHALL BE FABRICATED TO SO THAT ANY MINOR CAMBER DUE TO ROLLING SHALL BE UPWARD AFTER ERECTION.
8. SUBMIT SHOP DRAWINGS TO ARCHITECT (STRUCTURAL ENGINEER) FOR REVIEW AND, UPON REQUEST, TO GOVERNING CODE AUTHORITY. INDICATE AN ERECTION SEQUENCE OF WELDING TO MINIMIZE LOCKED-UP STRESSES OR DISTORTION FOR MOMENT-RESISTING STEEL FRAMES.
9. HOURLY FIRE RESISTIVE REQUIREMENTS FOR STRUCTURAL STEEL MEMBERS SHALL BE DETERMINED USING CBC TABLE 601. BUILDING TYPES OF CONSTRUCTION AND FIREPROOFING MATERIALS ARE AS INDICATED ON ARCHITECTURAL DRAWINGS.
10. ALL STEEL NOT ENCASED IN CONCRETE, MASONRY, OR FIREPROOFING SHALL BE SHOP PRIMED AND PAINTED PER SPECIFICATIONS, EXCEPT FOR TOP FLANGE OF BEAMS SUPPORTING METAL DECK. ANY ABRASIONS OR UNPAINTED AREAS SHALL BE TOUCHED UP AFTER ERECTION.
11. ALL STRUCTURAL STEEL AND MISCELLANEOUS METALS EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION UNLESS NOTED OTHERWISE ON ARCHIRTECTURAL DRAWINGS.
12. WELDING SHALL CONFORM TO LATEST EDITION OF ANSI/AWS D1.1, AS AMENDED IN CBC SECTION 2204.1.
    A. WELDING PROCESS SHALL BE ELECTRIC ARC USING E70XX ELECTRODES. SUBMERGED ARC PROCESS (SAW) WITH AUTOMATIC WELDING MAY BE USED AS AN ALTERNATIVE.
    B. WELDERS SHALL BE CERTIFIED TO CONFORM WITH AWS STANDARDS AND APPROVED BY THE GOVERNING CODE AUTHORITY.
    C. SHOP WELDING, INCLUDING ULTRASONIC TESTING OF FULL PENETRATION GROOVE WELDS, SHALL BE PERFORMED ON THE PREMISES OF AN APPROVED FABRICATOR.
    D. MINIMUM FILLET WELD SIZE SHALL CONFORM TO AISC SPECIFICATION TABLE J2.4. WELDS LENGTHS NOTED ON DRAWINGS ARE THE NET EFFECTIVE LENGTHS REQUIRED.
    E. FIELD WELD SYMBOLS NOTED ON THE DRAWINGS SHOW ENGINEERING INTENT, BUT NO ATTEMPT HAS BEEN MADE TO CLASSIFY ALL WELDS. AT FABRICATOR'S OPTION, ANY WELD INDICATED AS A FIELD WELD MAY BE SHOP WELDED AND ANY WELD INDICATED AS A SHOP WELD MAY BE FIELD WELDED.
13. WELDS SHALL BE PREQUALIFIED PER AWS D1.1. NON-PREQUALIFIED WELDED JOINTS SHALL BE QUALIFIED BY TEST PER AWS D1.1.
14. SUBMIT TO ARCHITECT (STRUCTURAL ENGINEER) FOR REVIEW A WRITTEN WELDING PROCEDURE SPECIFICATION (WPS) FOR ALL WELDS USED ON PROJECT PRIOR TO FABRICATION. FOR WELDS NOT PREQUALIFIED, THE SUPPORTING PROCEDURE QUALIFICATION RECORD (PQR) SHALL ALSO BE SUBMITTED WITH THE WPS. WPS SHALL BE IN ACCORDANCE TO AWS D1.1, SECTION 4.6 AND SHALL INCLUDE THE FOLLOWING INFORMATION FOR EACH WELD TYPE AND POSITION:
    A. SKETCH OF JOINT DESCRIBING GEOMETRY AND APPLICABLE DIMENSIONS, WELD TYPE AND SIZE, SEQUENCE OF WELD DEPOSITION, AND MAXIMUM LAYER THICKNESS AND BEAD WIDTHS. LAYER THICKNESS SHALL NOT EXCEED 1/4 INCH, AND BEAD WIDTH SHALL NOT EXCEED 5/8 INCH.
    B. BASE METAL TYPES AND THICKNESS.
    C. APPLICABLE WELD PROCESS (SMAW OR FCAW).
    D. FILLER METAL PER AWS STANDARD AND ELECTRODE SPECIFICATION AND CLASSIFICATION, AS WELL AS DETAILS OF SHIELDING MATERIAL.
    E. ELECTRICAL CHARACTERISTICS FOR WELD PROCESS USED SUCH AS TYPE OF CURRENT AND ACCEPTABLE RANGE OF CURRENT MEASURED IN AMPERAGE, VOLTAGE RANGE, AND ELECTRODE DIAMETER. FOR WELD FEED PROCESS, INDICATE MANUFACTURER RECOMMENDED WIRE SPEED, CONTACT DISTANCE, MELT OFF RATE AND DEPOSITION RATE.
    F. A COPY OF ELECTRODE MANUFACTURER'S TECHNICAL INFORMATION AND CERTIFICATE OF CONFORMANCE.
15. TESTING LABORATORY WILL VERIFY COMPLIANCE WITH ACCEPTED WPS AND WILL PROMPTLY NOTIFY ARCHITECT (STRUCTURAL ENGINEER) IF DEVIATIONS ARE FOUND.
16. ELECTRODE DIAMETER SHALL NOT EXCEED PREQUALIFIED LIMITS SHOWN IN AWS D1.1 TABLE 3.7, AS APPLICABLE. FOR FCAW PROCESS, MAXIMUM ELECTRODE SIZE SHALL NOT EXCEED 1/8 INCH.

CONCRETE MASONRY UNITS

1. CONCRETE MASONRY UNITS (CMU) SHALL BE MEDIUM WEIGHT HOLLOW LOAD BEARING UNITS CONFORMING TO ASTM C90. NORMAL WEIGHT OR LIGHTWEIGHT UNITS MAY BE USED IF APPROVED BY THE ARCHITECT (STRUCTURAL ENGINEER). USE OPEN END UNITS AT VERTICAL REINFORCING AND BOND BEAM UNITS AT HORIZONTAL REINFORCING.
2. SPECIFIED COMPRESSIVE STRENGTH (f'm) OF COMPLETED CONCRETE MASONRY UNITS IS 1500 PSI UNLESS NOTED OTHERWISE. COMPLIANCE WITH SPECIFIED COMPRESSIVE STRENGTH SHALL BE BY THE UNIT STRENGTH METHOD OR BY THE PRISM TEST METHOD IN ACCORDANCE TO CBC SECTION 2105.2.2.
3. MORTAR MIX SHALL CONFORM TO THE REQUIREMENTS OF ASTM C270 FOR TYPE S MORTAR. MORTAR SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 2600 PSI AT 28 DAYS. MORTAR SAND SHALL BE FREE OF INJURIOUS AMOUNTS OF DELETERIOUS SUBSTANCES AND ORGANIC IMPURITIES AND CONFORM TO ASTM C144.
4. GROUT SHALL CONFORM TO THE REQUIREMENTS ASTM C476 FOR COARSE GROUT. GROUT SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AT 28 DAYS. AGGREGATES FOR COARSE GROUT SHALL CONFORM TO ASTM C404.
5. CEMENT SHALL BE LOW ALKALI CONFORMING TO ASTM C150, TYPE I OR TYPE II. USE OF MASONRY CEMENT IS PROHIBITED.
6. WATER MUST BE CLEAN AND POTABLE AND FREE OF DELETERIOUS AMOUNTS OF OILS, ACIDS, ALKALIES, ORGANIC MATERIALS, AND SOLUBLE SALTS SUCH AS POTASSIUM AND SODIUM SULFATES.
7. CLEANOUTS SHALL BE PROVIDED FOR ALL GROUT POUR HEIGHTS OVER FIVE FEET. WHERE REQUIRED, CLEANOUTS SHALL BE PROVIDED IN THE BOTTOM COURSE AT EVERY VERTICAL REINFORCING BUT SHALL NOT BE SPACED GREATER THAN 32 INCHES ON CENTER FOR SOLID GROUTED MASONRY. CLEANOUTS SHALL BE SEALED AFTER INSPECTION AND BEFORE GROUTING.
8. GROUT POUR HEIGHT SHALL NOT EXCEED THAT SHOWN IN ACI 530 TABLE 1.19.1. GROUT SHALL BE PLACED IN A CONTINUOUS POUR IN GROUT LIFTS NOT EXCEEDING FIVE FEET. BETWEEN GROUT POURS, A HORIZONTAL CONSTRUCTION JOINT SHALL BE FORMED BY STOPPING GROUT POUR 1-1/2 INCHES BELOW TOP OF MORTAR JOINT.
9. CELLS SHALL BE IN VERTICAL ALIGNMENT. ALL CELLS SHALL BE GROUTED SOLID UNLESS OTHERWISE NOTED. CONSOLIDATE BY MECHANICAL VIBRATION AND RECONSOLIDATE BY MECHANICAL VIBRATION AFTER INITIAL WATER LOSS AND SETTLEMENT HAS OCCURRED.
10. SEE REINFORCING STEEL GENERAL NOTES FOR REINFORCING STEEL IN CMU.
11. WALL AND PILASTER DOWELS IN FOOTINGS SHALL MATCH SIZE, GRADE, AND SPACING OF RESPECTIVE VERTICAL REINFORCING UNLESS OTHERWISE NOTED. DOWELS SHALL BE SET TO ALIGN WITH CELLS CONTAINING REINFORCING STEEL.
12. REINFORCING STEEL SHALL BE SECURED AGAINST DISPLACEMENT PRIOR TO GROUTING USING WIRE POSITIONERS AT INTERVALS NOT EXCEEDING 200 BAR DIAMETERS. PROVIDE A MINIMUM OF ONE BAR DIAMETER, LARGEST SIZE AGGREGATE PLUS 1/4 INCH, OR 1/2 INCH, WHICHEVER IS GREATER, GROUT BETWEEN MAIN REINFORCING STEEL AND MASONRY UNIT.
13. REINFORCING STEEL, EXCEPT JOINT REINFORCING, SHALL BE COMPLETELY EMBEDDED IN MORTAR OR GROUT AND HAVE A MINIMUM COVER, INCLUDING CMU SHELL, AS FOLLOWS:
    A. CMU NOT EXPOSED TO EARTH OR WEATHER 1-1/2"
    B. CMU EXPOSED TO EARTH OR WEATHER:
       NO. 6 AND LARGER. 2"
       NO. 5 AND SMALLER 1-1/2"
14. MINIMUM CLEARANCE BETWEEN PARALLEL REINFORCING STEEL SHALL BE ONE INCH, NOMINAL BAR DIAMETER, OR 4/3 TIMES THE MAXIMUM SIZE OF AGGREGATE, WHICHEVER IS GREATER.
15. MINIMUM CLEAR DISTANCE BETWEEN VERTICAL BARS IN COLUMN AND PILASTERS SHALL NOT BE LESS THAN 1.5 TIMES THE NOMINAL BAR DIAMETER, NOR LESS THAN 1 1/2 INCHES.
16. PROVIDE ONE INCH MINIMUM GROUT COVER AROUND ANCHOR BOLTS, REINFORCING STEEL DOWELS, AND OTHER INSERTS PENETRATING CMU SHELL. ANCHOR BOLTS SHALL BE HEADED TYPE BOLTS. ANCHOR BOLTS WITH HOOKED ENDS ARE NOT PERMITTED.
17. REFER TO ARCHITECTURAL DRAWINGS FOR SURFACE AND HEIGHT OF MASONRY UNITS, LAYING PATTERN AND JOINT TYPE. IF NOT SPECIFIED OTHERWISE ON ARCHITECTURAL DRAWINGS, USE 8"x8"x16" NATURAL GRAY PRECISION UNITS IN RUNNING BOND PATTERN WITH TOOLED CONCAVE MORTAR JOINT.
18. MORTAR JOINTS SHALL 3/8 INCH THICK (UNLESS NOTED OTHERWISE), EXCEPT THAT THICKNESS OF STARTER MORTAR JOINT PLACED OVER FOUNDATIONS SHALL NOT BE LESS THAN 1/4 INCH AND MORE THAN 3/4" INCH.
19. UNLESS OTHERWISE NOTED, FULL ALLOWABLE STRESSES ARE USED IN DESIGN. SPECIAL INSPECTION REQUIRED FOR ERECTION OF ALL CONCRETE MASONRY UNITS.

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Key Plan

Consultant Seal

REGISTERED PROFESSIONAL ENGINEER KENNETH H. GALYEN No. C-19082 EXP. 12/31/18 STRUCTURAL STATE OF CALIFORNIA

Agency Approval FILE NO. 37-C1

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DIV. OF THE STATE ARCHITECT
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Project Title

PALOMAR COLLEGE®
Learning for Success

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No.	Description	Date

Drawing Title:
GENERAL NOTES

Architect's Seal

LICENSED ARCHITECT KENNETH H. GALYEN NO. C-19082 REN. 11-30-18 STATE OF CALIFORNIA

Designed:	JC	Project No.	3443001-302
Drawn:	JPR	Scale:	As indicated
QAQC	RR	Drawing No.	S0.2
Date:	10/18/2017		

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DSA APPROVAL

STATEMENT OF SPECIAL INSPECTIONS (CONTINUED)

3) DOCUMENTATION: ALL NDT PERFORMED SHALL BE DOCUMENTED. FOR SHOP FABRICATION, THE NDT REPORT SHALL IDENTIFY THE TESTED WELD BY PIECE MARK AND LOCATION IN THE PIECE. FOR FIELD WORK, THE NDT REPORT SHALL IDENTIFY THE TESTED WELD BY LOCATION IN THE STRUCTURE, PIECE MARK, AND THE LOCATION IN THE PIECE.

B. COLD-FORMED STEEL FRAMING: PERIODIC SPECIAL INSPECTION IS REQUIRED DURING WELDING OPERATION OF ELEMENTS OF THE SFRS. PERIODIC INSPECTION IS REQUIRED FOR SCREW ATTACHMENT, BOLTING, ANCHORING AND OTHER FASTENING OF COMPONENTS WITHIN THE SFRS, INCLUDING, DIAPHRAGMS, AND COLLECTORS.

C. ARCHITECTURAL COMPONENTS: PERIODIC SPECIAL INSPECTION IS REQUIRED DURING THE ERECTION AND FASTENING OF EXTERIOR CLADDING, INTERIOR AND EXTERIOR NONBEARING WALLS, AND INTERIOR AND EXTERIOR VENEER.

D. MECHANICAL AND ELECTRICAL COMPONENTS: SPECIAL INSPECTION FOR MECHANICAL AND ELECTRICAL EQUIPMENT AS FOLLOWS:

1) PERIODIC SPECIAL INSPECTION IS REQUIRED DURING THE ANCHORAGE OF ELECTRICAL EQUIPMENT FOR EMERGENCY OR STANDBY POWER SYSTEMS.
2) PERIODIC SPECIAL INSPECTION IS REQUIRED DURING THE INSTALLATION OF ANCHORAGE OF OTHER ELECTRICAL EQUIPMENT.
3) PERIODIC SPECIAL INSPECTION IS REQUIRED DURING INSTALLATION AND ANCHORAGE OF PIPING SYSTEMS INTENDED TO HAZARDOUS MATERIALS AND THEIR ASSOCIATED MECHANICAL UNITS.
4) PERIODIC SPECIAL INSPECTION IS REQUIRED DURING INSTALLATION AND ANCHORAGE OF DUCTWORK DESIGNED TO CARRY HAZARDOUS MATERIALS.

8. APPROVED AGENCY SHALL PERFORM TESTING AND QUALIFICATION FOR SEISMIC RESISTANCE IN ACCORDANCE WITH CBC SECTION 1705A.12 FOR THE FOLLOWING WORK.

1) STRUCTURAL STEEL: PER CBC SECTION 1705A.12.2 TESTING OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE REQUIREMENTS OF AISC 341.

2) ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENTS AND WHERE THE REQUIREMENTS OF ASCE 7 SECTION 13.2.1, ITEM 2 ARE MET BY SUBMITTAL OF MANUFACTURER'S CERTIFICATION IN ACCORDANCE WITH ITEM 3, SHALL COMPLY WITH SECTION 1705A.12.3

9. DEFINITIONS
A. CONTINUOUS – THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED.
B. PERIODIC – THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF WORK.

STATEMENT OF SPECIAL INSPECTIONS

1. AN APPROVED AGENCY, RETAINED BY THE DISTRICT AND SATISFACTORY TO ARCHITECT (STRUCTURAL ENGINEER) AND THE DIVISION OF THE STATE ARCHITECT (DSA), SHALL PERFORM REQUIRED TESTS AND SPECIAL INSPECTIONS OF THIS CONTRACT AND APPLICABLE CODE. AN APPROVED AGENCY IS AN ESTABLISHED AND RECOGNIZED AGENCY REGULARLY ENGAGED IN CONDUCTING TESTS AND/OR FURNISHING INSPECTION SERVICES, WHEN SUCH AN AGENCY IS APPROVED.

APPROVED AGENCY SHALL KEEP RECORDS OF ALL INSPECTIONS AND SHALL FURNISH INSPECTION
2. REPORTS TO GOVERNING CODE AUTHORITY (DSA), PROJECT INSPECTOR, AND THE ARCHITECT (STRUCTURAL ENGINEER). REPORTS SHALL INDICATE WHETHER THE WORK INSPECTED WAS DONE IN CONFORMANCE OR NONCONFORMANCE WITH APPROVED CONSTRUCTION DOCUMENTS. NONCONFORMITIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR AND PROJECT INSPECTOR FOR CORRECTION. IF NOT CORRECTED, THE NONCONFORMITIES SHALL BE BROUGHT TO THE ATTENTION OF THE GOVERNING CODE AUTHORITY, PROJECT INSPECTOR, AND THE ARCHITECT (STRUCTURAL ENGINEER) PRIOR TO THE COMPLETION OF THAT PHASE OF WORK. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF NONCONFORMITIES SHALL BE SUBMITTED UPON COMPLETION OF WORK.

3. WHERE FABRICATION OF STRUCTURAL MEMBERS AND ASSEMBLIES IS PERFORMED ON THE PREMISES OF A FABRICATOR'S SHOP, SPECIAL INSPECTIONS OF FABRICATED ITEMS ARE REQUIRED IN ACCORDANCE WITH CBC SECTION 1704A.2.5.

4. CONTRACTOR SHALL SUBMIT MATERIAL CERTIFICATION OR LABORATORY TEST REPORTS CERTIFYING MATERIALS ARE OF IDENTIFIABLE TESTED STOCK, COMPLYING WITH PROJECT SPECIFICATIONS, TO THE DISTRICT, APPROVED AGENCY, ARCHITECT (STRUCTURAL ENGINEER) AND, UPON REQUEST, TO DSA. IF LABORATORY TEST REPORTS CANNOT BE MADE AVAILABLE, APPROVED AGENCY WILL PERFORM TESTS AS DIRECTED BY ARCHITECT (STRUCTURAL ENGINEER). CONTRACTOR SHALL PAY FOR COSTS RELATED TO TESTS AND INSPECTIONS OF UNIDENTIFIABLE MATERIALS, MATERIALS FURNISHED WITHOUT LABORATORY TEST REPORTS, MATERIALS FOUND DEFICIENT AFTER INITIAL TESTS AND INSPECTIONS, AND/OR MATERIALS REPLACING DEFICIENT MATERIALS.

5. APPROVED AGENCY SHALL SUBMIT MATERIAL TEST REPORTS INDICATING WHETHER TESTED MATERIALS ARE IN COMPLIANCE OR NONCOMPLIANCE WITH CONTRACT DOCUMENTS TO OWNER, CONTRACTOR, ARCHITECT (STRUCTURAL ENGINEER), PROJECT INSPECTOR AND, UPON REQUEST, TO DSA.

6. APPROVED AGENCY SHALL PERFORM SPECIAL INSPECTIONS IN ACCORDANCE WITH CBC SECTION 1705A AND WITH THIS SHEET FOR THE FOLLOWING WORK. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL TEST AND INSPECTION REQUIREMENTS.

A. STEEL CONSTRUCTION: SEE TABLE 1 AND CBC SECTION 1705A.2.1
1) STRUCTURAL WELDING/COLD-FORMED STEEL ROOF DECK WELDING/REINFORCING STEEL WELDING: SEE CBC SECTION 1705A.2.2 AND 1705A.2.2.5.
B. CONCRETE CONSTRUCTION: SEE TABLE 2 AND CBC SECTION 1705A.3.
C. STRUCTURAL MASONRY CONSTRUCTION: SEE ACI 530 TABLE 1.19.3, LEVEL C
D. SOILS: SEE TABLE 3 AND CBC SECTION 1705A.6

7. APPROVED AGENCY SHALL PERFORM SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE IN ACCORDANCE WITH CBC SECTION 1704A.11 FOR THE FOLLOWING WORK.
A. STRUCTURAL STEEL: SEE TABLE 8 AND THE FOLLOWING NONDESTRUCTIVE TESTING (NDT) OF WELDS:

1) PROCEDURES
a) ULTRASONIC TESTING (UT) SHALL BE PERFORMED ACCORDING TO THE PROCEDURES PRESCRIBED IN ANSI/AISC 341 CHAPTER J, SECTION J.6 OR DEMAND CRITICAL WELDS.
b) MAGNETIC PARTICLE TESTING (MT) SHALL BE PERFORMED ACCORDING TO THE PROCEDURES PRESCRIBED IN ANSI/AISC 341 CHAPTER J, SECTION J.6 OR DEMAND CRITICAL WELDS.
2) REQUIRED NDT
a) k-AREA NDT: WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES, OR STIFFENERS HAS BEEN PERFORMED IN THE k-AREA, THE WEB SHALL BE TESTED FOR CRACKS USING MT. THE MT INSPECTION AREA SHALL INCLUDE THE k-AREA BASE METAL WITHIN 3 INCHES OF THE WELD.
b) CJP GROOVE WELD NDT: UT SHALL BE PERFORMED ON 100 PERCENT OF CJP GROOVE WELDS IN MATERIALS 5/16 INCH OR GREATER. UT IN MATERIAL LESS THAN 5/16 INCH THICK IS NOT REQUIRED. MT SHALL BE PERFORMED ON 25 PERCENT OF ALL BEAM-TO-COLUMN CJP GROOVE WELDS.
c) BASE METAL NDT FOR LAMELLAR TEARING AND LAMINATIONS: AFTER JOINT COMPLETION, BASE METAL THICKER THAN 1-1/2 INCHES LOADED IN TENSION IN THE THROUGH THICKNESS DIRECTION IN TEE AND CORNER JOINTS, WHERE THE CONNECTED MATERIAL IS GREATER THAN 3/4 INCH AND CONTAINS CJP GROOVE WELDS, SHALL BE UT FOR DISCONTINUITIES BEHIND AND ADJACENT TO THE FUSION LINE OF SUCH WELDS. ANY BASE METAL DISCONTINUITIES FOUND WITHIN T/4 OF THE STEEL SURFACE SHALL BE ACCEPTED OR REJECTED ON THE BASIS OF CRITERIA OF AWS D1.1 TABLE 6.2, WHERE T IS THE THICKNESS OF THE PART SUBJECTED TO THE THROUGH-THICKNESS STRAIN.
d) BEAM COPE AND ACCESS HOLE NDT: AT WELDED SPLICES AND CONNECTIONS, THERMALLY CUT SURFACES OF BEAM COPES AND ACCESS HOLES SHALL BE TESTED USING MT OR UT, WHEN THE FLANGE THICKNESS EXCEEDS 1-1/2 INCHES FOR ROLLED SHAPES, OR WHEN THE WEB THICKNESS EXCEEDS 1-1/2 INCHES FOR BUILT-UP SHAPES.
e) REDUCED BEAM SECTION (RBS) REPAIR NDT: MT SHALL BE PERFORMED ON ANY WELD AND ADJACENT AREA OF THE RBS PLASTIC HINGE REGION THAT HAS BEEN REPAIRED BY WELDING, OR ON THE BASE METAL OF THE RBS PLASTIC HINGE REGION IF A SHARP NOTCH HAS BEEN REMOVED BY GRINDING.
f) WELD TAB REMOVAL SITES: MT SHALL BE PERFORMED ON THE END OF WELDS FROM WHICH THE WELD TABS HAVE BEEN REMOVED, EXCEPT FOR CONTINUITY PLATE WELD TABS.
g) REDUCTION OF PERCENTAGE OF UT: THE AMOUNT OF UT IS PERMITTED TO BE REDUCED IF APPROVED BY THE ENGINEER OF RECORD AND THE GOVERNING CODE AUTHORITY. THE NDT RATE FOR AN INDIVIDUAL WELDER OR WELDING OPERATOR MAY BE REDUCED TO 25 PERCENT, PROVIDED THE REJECT RATE IS DEMONSTRATED TO BE 5 PERCENT OR LESS OF THE WELDS TESTED FOR THE WELDER OR WELDING OPERATOR. A SAMPLING OF AT LEAST 40 COMPLETED WELDS FOR A JOB SHALL BE MADE FOR SUCH REDUCTION EVALUATION. REJECT RATE IS THE NUMBER OF WELDS CONTAINING REJECTABLE DEFECTS DIVIDED BY THE NUMBER OF WELDS COMPLETED. FOR EVALUATING THE REJECT RATE OF CONTINUOUS WELDS OVER 3 FEET IN LENGTH WHERE THE EFFECTIVE THROAT THICKNESS IS 1 INCH OR LESS, EACH 12-INCH INCREMENT OR FRACTION THEREOF SHALL BE CONSIDERED AS ONE WELD. FOR EVALUATING THE REJECT RATE ON CONTINUOUS WELDS OVER 3 FEET IN LENGTH WHERE THE EFFECTIVE THROAT THICKNESS IS GREATER THAN 1 INCH, EACH 6 INCHES OF LENGTH OR FRACTION THEREOF SHALL BE CONSIDERED ONE WELD. NO REDUCTION ON UT IS PERMITTED FOR DEMAND CRITICAL WELDS.
h) REDUCTION OF PERCENTAGE OF MT: THE AMOUNT OF MT ON CJP GROOVE WELDS IS PERMITTED TO BE REDUCED IF APPROVED BY THE ENGINEER OF RECORD AND THE GOVERNING CODE AUTHORITY. THE MT RATE FOR AN INDIVIDUAL WELDER OR WELDING OPERATOR MAY BE REDUCED TO 10 PERCENT, PROVIDED THE REJECT RATE IS DEMONSTRATED TO BE 5 PERCENT OR LESS OF THE WELDS TESTED FOR THE WELDER OR WELDING OPERATOR. A SAMPLING OF AT LEAST 20 COMPLETED WELDS FOR A JOB SHALL BE MADE FOR SUCH REDUCTION EVALUATION. REJECT RATE IS THE NUMBER OF WELDS CONTAINING REJECTABLE DEFECTS DIVIDED BY THE NUMBER OF WELDS COMPLETED. THIS REDUCTION IS NOT PERMITTED ON WELDS IN THE k-AREA, AT REPAIR SITES, WELD TAB AND BACKING REMOVAL SITES AND ACCESS HOLES.

STRUCTURAL OBSERVATION

1. STRUCTURAL OBSERVATION IS REQUIRED FOR THE STRUCTURAL SYSTEM IN ACCORDANCE WITH SECTION 1704A.5 OF THE CALIFORNIA BUILDING CODE (CBC). STRUCTURAL OBSERVATION IS THE VISUAL OBSERVATION AT THE CONSTRUCTION SITE OF THE ELEMENTS AND CONNECTIONS OF THE STRUCTURAL SYSTEM AT SIGNIFICANT CONSTRUCTION STAGES, AND THE COMPLETE STRUCTURE FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS. STRUCTURAL OBSERVATION DOES NOT WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED OF THE DIVISION OF THE STATE ARCHITECT (DSA) SPECIAL INSPECTOR OR THE PROJECT INSPECTOR.

2. THE DISTRICT SHALL EMPLOY A STATE OF CALIFORNIA REGISTERED CIVIL OR STRUCTURAL ENGINEER OR LICENSED ARCHITECT TO PERFORM THE STRUCTURAL OBSERVATION. THE DSA AUTHORITY REQUIRES THE USE OF THE ENGINEER OR ARCHITECT, OR HIS/HER DESIGNEE RESPONSIBLE FOR THE STRUCTURAL DESIGN WHO ARE INDEPENDENT OF THE CONTRACTOR.

3. THE PROJECT INSPECTORSHALL COORDINATE AND CALL FOR A MEETING BETWEEN THE ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL DESIGN, STRUCTURAL OBSERVER, CONTRACTOR, AFFECTED SUBCONTRACTORS. THE PURPOSE OF THE MEETING SHALL BE TO IDENTIFY MAJOR STRUCTURAL ELEMENTS AND CONNECTIONS THAT AFFECT VERTICAL AND LATERAL LOAD SYSTEMS OF THE STRUCTURE AND TO REVIEW SCHEDULING OF THE REQUIRED OBSERVATIONS. A RECORD OF THE MEETING SHALL BE INCLUDED IN THE FIRST OBSERVATION REPORT SUBMITTED TO THE PROJECT INSPECTOR.

4. THE STRUCTURAL OBSERVER SHALL PERFORM SITE VISITS AT THOSE STEPS IN THE PROGRESS OF THE WORK THAT ALLOW FOR CORRECTION OF DEFICIENCIES WITHOUT SUBSTANTIAL EFFORT OR UNCOVERING OF THE WORK INVOLVED. AT A MINIMUM, THE LISTED SIGNIFICANT CONSTRUCTION STAGES ON THE "STRUCTURAL OBSERVATION/SIGNIFICANT CONSTRUCTION STAGES TABLE"(HERE IN BELOW) REQUIRE A SITE VISIT AND AN OBSERVATION REPORT FROM THE STRUCTURAL OBSERVER.

5. THE STRUCTURAL OBSERVER SHALL PREPARE A REPORT FOR EACH SIGNIFICANT STAGE OF CONSTRUCTION OBSERVED. THE ORIGINAL OF THE STRUCTURAL OBSERVATION REPORT SHALL BE SENT TO THE PROJECT INSPECTOR'S OFFICE AND SHALL BE SIGNED AND SEALED (WET STAMP) BY THE RESPONSIBLE STRUCTURAL OBSERVER. ONE COPY OF THE OBSERVATION REPORT SHALL BE ATTACHED TO THE APPROVED PLANS. THE COPY ATTACHED TO PLANS SHALL BE SIGNED AND SEALED (WET STAMP) BY THE RESPONSIBLE STRUCTURAL OBSERVER OR THEIR DESIGNEE. COPIES OF REPORT SHALL ALSO BE GIVEN TO THE DISTRICT, CONTRACTOR, AND PROJECT INSPECTOR. ANY DEFICIENCIES NOTED ON THE OBSERVATION REPORT WILL BECOME THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER OR ARCHITECT OF RECORD TO VERIFY ITS COMPLETION BY THE STRUCTURAL OBSERVER.

6. A FINAL OBSERVATION REPORT MUST BE SUBMITTED WHICH SHOWS THAT ALL OBSERVED DEFICIENCIES WERE RESOLVED AND STRUCTURAL SYSTEM GENERALLY CONFORMS WITH THE APPROVED PLANS AND SPECIFICATIONS. THE DIVISION OF THE STATE ARCHITECT WILL NOT ACCEPT THE STRUCTURAL WORK WITHOUT THIS FINAL OBSERVATION REPORT AND THE CORRECTION OF SPECIFIC DEFICIENCIES NOTED DURING NORMAL BUILDING INSPECTION.

7. THE STRUCTURAL OBSERVER SHALL PROVIDE THE ORIGINAL STAMPED AND SIGNED STRUCTURAL OBSERVATION REPORT TO THE PROJECT INSPECTOR.

8. WHEN THERE IS A NEED TO REPLACE THE STRUCTURAL OBSERVER OF RECORD, THE OWNER SHALL:
A. NOTIFY THE DSA PROJECT INSPECTOR IN WRITING BEFORE THE NEXT INSPECTION
B. CALL AN ADDITIONAL PRECONSTRUCTION MEETING, AND
C. FURNISH THE REPLACEMENT STRUCTURAL OBSERVER WITH A COPY OF ALL PREVIOUS OBSERVATION REPORTS.
D. THE NEW STRUCTURAL OBSERVER MUST BE DESIGNATED BY THE STRUCTURAL OR ARCHITECT OF RECORD. FORM DSA-108 IS REQUIRED TO BE SUBMITTED TO DSA TO COMPLETE THE DESIGNATED STRUCTURAL OBSERVER.

9. THE REPLACEMENT STRUCTURAL OBSERVER SHALL APPROVE THE CORRECTION OF THE ORIGINAL OBSERVED DEFICIENCIES UNLESS OTHERWISE APPROVED BY DSA. THE POLICY OF DSA IS TO CORRECT ANY PROPERLY NOTED DEFICIENCIES WITHOUT CONSIDERATION OF THEIR SOURCE.

10. THE ENGINEER OR ARCHITECT OF RECORD WILL DEVELOP ALL CHANGES RELATING TO THE STRUCTURAL SYSTEMS. DIVISION OF THE STATE ARCHITECT SHALL REVIEW AND APPROVE ALL CHANGES TO THE APPROVED PLANS AND SPECIFICATIONS.

SIGNIFICANT CONSTRUCTION STAGES ARE THE STAGES OF CONSTRUCTION IDENTIFIED BY THE ENGINEER OBSERVER AS SIGNIFICANT AND REQUIRE SITE STRUCTURAL OBSERVATION.

STRUCTURAL OBSERVATION/SIGNIFICANT CONSTRUCTION STAGES TABLE

CONST STAGE	CONST TYPE	ELEMENTS/CONNECTIONS TO BE OBSERVED
FOUNDATION	SPREAD FOOTINGS CONTINUOUS FTGS	FIRST SIGNIFICANT FOUNDATION POUR REINF IN-PLACE PRIOR TO CONCRETING
FRAME	STEEL MOM FRAMES	FRAME ERECTION AND BOLTING IN PROGRESS
COMPLETION	OVERALL STRUCTURAL	OBSERVED DEFICIENCIES RESOLVED GENERAL CONFORMANCE TO APPROVED DOCUMENTS

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Project #15521

Key Plan

Consultant Seal

REGISTERED PROFESSIONAL ENGINEER KENNETH H. SALYER NO. C-19082 EXP. 12/31/18 STRUCTURAL STATE OF CALIFORNIA

Agency Approval FILE NO. 37-C1

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DIV. OF THE STATE ARCHITECT
APPL. 04-115420
ACS — FLS — SSS 43
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No.	Description	Date

Drawing Title:
GENERAL NOTES

Architect's Seal

LICENSED ARCHITECT KENNETH H. SALYER NO. C-19082 11-30-18 STATE OF CALIFORNIA

Designed:	JC	Project No.	3443001-302
Drawn:	JPR	Scale:	12" = 1'-0"
QAQC	RR	Drawing No.	S0.3
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TABLE 8 (ANSI/AISC 341 CHAPTER J) REQUIRED VERIFICATION AND INSPECTION OF SFRS			
8.1.1	VISUAL INSPECTION TASKS BEFORE WELDING	TASK	DOC
MATERIAL IDENTIFICATION (TYPE/GRADE)		O	–
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)		P/O**	–
- JOINT PREPARATION			
- DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)			
- CLEANLINESS (CONDITION OF STEEL SURFACES)			
- TACKING (TACK WELD QUALITY AND LOCATION)			
- BACKING TYPE AND FIT (IF APPLICABLE)			
CONFIGURATION AND FINISH OF ACCESS HOLES		O	–
FIT-UP OF FILLET WELDS		P/O**	–
- DIMENSIONS (ALIGNMENT, GAPS AT ROOT)			
- CLEANLINESS (CONDITION OF STEEL SURFACES)			
- TACKING (TACK WELD QUALITY AND LOCATION)			
8.1.2	VISUAL INSPECTION TASKS DURING WELDING	TASK	DOC
WPS FOLLOWED		O	–
- SETTINGS ON WELDING EQUIPMENT			
- TRAVEL SPEED			
- SELECTED WELDING MATERIALS			
- SHIELDING GAS TYPE/ FLOW RATE			
- PREHEAT APPLIED			
- INTERPASS TEMPERATURE MAINTAINED (MIN/ MAX)			
- PROPER POSITION (F, V, H, OH)			
- INTERMIX OF FILLER METALS AVOIDED UNLESS APPROVED			
USE OF QUALIFIED WELDERS		O	–
CONTROL AND HANDLING OF WELDING CONSUMABLES		O	–
- PACKAGING			
- EXPOSURE CONTROL			
ENVIRONMENTAL CONDITIONS		O	–
- WIND SPEED WITHIN LIMITS			
- PRECIPITATION AND TEMPERATURE			
WELDING TECHNIQUES		O	–
- INTERPASS AND FINAL CLEANING			
- EACH PASS WITHIN PROFILE LIMITATIONS			
- EACH PASS MEETS QUALITY REQUIREMENTS			
NO WELDING OVER CRACKED TACKS		O	–
8.1.3	**VISUAL INSPECTION TASKS AFTER WELDING**	**TASK**	**DOC**
WELDS CLEANED		O	–
WEDER IDENTIFICATION LEGIBLE		O	–
VERIFY SIZE, LENGTH AND LOCATION OF WELDS		P	–
VISUALLY INSPECT WELDS TO ACCEPTANCE CRITERIA		P	D
- CRACK PROHIBITION			
- WELD/ BASE-METAL FUSION			
- CRATER CROSS-SECTION			
- WELD PROFILES			
- WELD SIZE			
- UNDERCUT			
- POROSITY			
PLACEMENT OF REINFORCEMENT FILLETS		P	D
BACKING BARS REMOVED AND WELD TABS REMOVED AND FINISHED (IF REQUIRED) AND ADDED FILLET WELDS		P	D
REPAIR ACTIVITIES		P	D
8.2.1	**INSPECTION TASKS PRIOR TO BOLTING**	**TASK**	**DOC**
PROPER BOLTS SELECTED FOR THE JOINT DETAIL		O	–
PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL		O	–
CONNECTING ELEMENTS ARE FABRICATED PROPERLY, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEETS APPLICABLE REQUIREMENTS		O	–
PRE-INSTALLATION VERIFICATION TESTING CONDUCTED FOR FASTENER ASSEMBLIES AND METHODS USED		P	D
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS		O	–
8.2.2	**INSPECTION TASKS DURING BOLTING**	**TASK**	**DOC**
FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE PROPERLY POSITIONED		O	–
JOINT BROUGHT TO THE SNUG TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION		O	–
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING		O	–
BOLTS ARE PRETENSIONED PROGRESSING SYSTEMATICALLY FROM MOST RIGID POINT TOWARD FREE EDGES		O	–
8.2.3	**INSPECTION TASKS AFTER BOLTING**	**TASK**	**DOC**
DOCUMENT ACCEPTED AND REJECTED CONNECTIONS		P	D

KEY

DOCUMENT (D) - THE INSPECTOR SHALL PREPARE REPORTS INDICATING THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE REPORT NEED NOT PROVIDE DETAILED MEASUREMENTS FOR JOINT FIT-UP, WPS SETTINGS, COMPLETED WELDS, OR OTHER INDIVIDUAL ITEMS LISTED IN THE TABLE 8. FOR SHOP FABRICATION, THE REPORT SHALL INDICATE THE PIECE MARK OF THE PIECE INSPECTED. FOR FIELD WORK, THE REPORT SHALL INDICATE THE REFERENCE GRID LINES AND FLOOR OR ELEVATION INSPECTED. WORK NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS AND WHETHER THE NONCOMPLIANCE HAS BEEN SATISFACTORILY REPAIRED SHALL BE NOTED IN THE INSPECTION REPORT.

OBSERVE (O) - THE SPECIAL INSPECTOR SHALL OBSERVE THESE FUNCTIONS ON A RANDOM, DAILY BASIS. WELDING OPERATIONS NEED NOT BE DELAYED PENDING OBSERVATIONS.

PERFORM (P) - THESE INSPECTIONS SHALL BE PERFORMED PRIOR TO THE FINAL ACCEPTANCE OF THE ITEM.

** FOLLOWING PERFORMANCE OF THIS INSPECTION TASK FOR TEN WELDS TO BE MADE BY A GIVEN WELDER, WITH THE WELDER DEMONSTRATING UNDERSTANDING OF REQUIREMENTS AND POSSESSION OF SKILLS AND TOOLS TO VERIFY THESE ITEMS, THE PERFORM DESIGNATION OF THIS TASK SHALL BE REDUCED TO OBSERVE, AND THE WELDER SHALL PERFORM THIS TASK. SHOULD THE INSPECTOR DETERMINE THAT THE WELDER HAS DISCONTINUED PERFORMANCE OF THIS TASK, THE TASK SHALL BE RETURNED TO PERFORM UNTIL SUCH TIME AS THE INSPECTOR HAS RE-ESTABLISHED ADEQUATE ASSURANCE THAT THE WELDER WILL PERFORM THE INSPECTION TASK LISTED.

TABLE 1 (CBC TABLE 1705A.2.1) REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION		
VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS:		
A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	–	X
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	–	X
2. INSPECTION OF HIGH-STRENGTH BOLTING:		
A. SNUG-TIGHT JOINTS.	–	X
B. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN OF THE NUT WITH MATCHMARKING, TWIST-OFF BOLT OR DIRECT TENSION INDICATOR METHODS OF INSTALLATION.	–	X
C. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN OF THE NUT WITHOUT MATCHMARKING, TWIST-OFF BOLT OR DIRECT TENSION INDICATOR METHODS OF INSTALLATION.	X	–
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD-FORMED STEEL DECK:		
A. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISC 360.	–	X
B. FOR OTHER STEEL, IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	–	X
C. MANUFACTURER'S CERTIFIED MILL TEST REPORTS	–	X
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:		
A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.	–	X
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	–	X
5. INSPECTION OF WELDING:		
A. STRUCTURAL STEEL AND COLD FORMED STEEL DECK:		
1) COMPLETE AND PARTIAL PENETRATION GROOVE WELDS.	X	–
2) MULTIPASS FILLET WELDS.	X	–
3) SINGLE-PASS FILLET WELDS > 5/16"	X	–
4) PLUG AND SLOT WELDS	X	–
5) SINGLE-PASS FILLET WELDS ≤ 5/16"	–	X
6) FLOOR AND ROOF DECK WELDS.	–	X
B. REINFORCING STEEL:		
1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706.	–	X
2) SHEAR REINFORCEMENT.	X	–
3) OTHER REINFORCING STEEL.	–	X
6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS.		
A. DETAILS SUCH AS BRACING AND STIFFENING.	–	X
B. MEMBER LOCATIONS.	–	X
C. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.	–	X

TABLE 2 (CBC TABLE 1705A.3) REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION		
VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.	–	X
2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1, ITEM 5B.	–	–
3. INSPECTION OF ANCHORS CAST IN CONCRETE.	–	X
4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.	–	X
5. VERIFYING USE OF REQUIRED DESIGN MIX.	–	X
6. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	–
7. INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	–
8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	–	X
9. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	–	X

TABLE 3 (CBC 1705A.6) REQUIRED VERIFICATION AND INSPECTION OF SOILS		
VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC
1. VERIFY MATERIALS BELOW SHALLOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	–	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	–	X
3. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS.	–	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL.	X	–
5. PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	–	X

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Sheet List	
Sheet Number	Sheet Name
S0.1	GENERAL NOTES
S0.2	GENERAL NOTES
S0.3	GENERAL NOTES
S0.4	GENERAL NOTES
S0.5	GENERAL NOTES, ABBREVIATIONS AND SHEET LIST
S0.6	GENERAL NOTES
S1.1	TYPICAL CONCRETE DETAILS
S1.2	TYPICAL CONCRETE DETAILS
S1.3	TYPICAL STEEL DETAILS
S1.4	TYPICAL STEEL DETAILS
S1.5	TYPICAL EXTERIOR METAL STUD DETAILS
S2.1	STORAGE BUILDING 1 - FOUNDATION AND ROOF FRAMING PLAN
S2.2	STORAGE BUILDING 2 - FOUNDATION AND ROOF FRAMING PLAN
S2.3	STORAGE BUILDING 3 - FOUNDATION AND ROOF FRAMING PLAN
S3.1	DETAILS AND SCHEDULES
S3.2	DETAILS
S4.1	MOMENT FRAME DETAILS
S5.1	ELEVATIONS
SMOD	PERSPECTIVE VIEW

Grand total: 19

STRUCTURAL ABBREVIATIONS

& AND
° DEGREE
ø DIAMETER
> GREATER THAN
≥ GREATER THAN OR EQUAL TO
< LESS THAN
≤ LESS THAN OR EQUAL TO
|| PARALLEL
⊥ PERPENDICULAR
± PLUS OR MINUS
POUNDS, NUMBER

AA ADHESIVE ANCHOR
AB ANCHOR BOLT(S)
ABV ABOVE
ADDL ADDITIONAL
ADDN ADDITION
ADJ ADJACENT, ADJUSTABLE
AESS ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
ALT ALTERNATE
ANCH ANCHOR
APPROX APPROXIMATE
ARCH ARCHITECTURAL

B BOTTOM
BAL BALANCE
BC BOTTOM CHORD
BEL BELOW
BLDG BUILDING
BLL BOTTOM LOWER LAYER
BM BEAM
BN BOUNDARY NAIL
B0 BOTTOM OF
B0BP BOTTOM OF BASE PLATE
B0S BOTTOM OF STEEL
B0T BOTTOM
BP BASE PLATE
BRCG BRACING
BRDG BRIDGING
BRG BEARING
BS BOTH SIDES
BSMT BASEMENT
BTWN BETWEEN
BU BUILT-UP
BUL BOTTOM UPPER LAYER

C CAMBER
CA COLUMN ABOVE
CANT CANTILEVER
CB COLUMN BELOW
CBF CONCENTRIC BRACED FRAME
CC CENTER TO CENTER
CHKD CHECKERED
CIP CAST-IN-PLACE
CJ CONSTRUCTION JOINT
CJP COMPLETE JOINT PENETRATION
CL or ℄ CENTERLINE
CLG CEILING
CLR CLEAR
CMU CONCRETE MASONRY UNIT
COL COLUMN
CONC CONCRETE
CONN CONNECTION
CONST CONSTRUCTION
CONT CONTINUOUS, CONTINUITY
COORD COORDINATE, COORDINATES
CTR CENTER
CTRL JT CONTROL JOINT

DBA DEFORMED BAR ANCHOR
DBL DOUBLE
DBLR DOUBLER
DEG DEGREE
DET DETAIL
DIA DIAMETER
DIAG DIAGONAL
DIAPH DIAPHRAGM
DIM DIMENSION
DN DOWN
DO DITTO
DWG DRAWING
DWL DOWEL

(E) EXISTING
EA EACH
EB EXPANSION (ANCHOR) BOLT
EBF ECCENTRICALLY BRACED FRAME
EF EACH FACE
EFF EFFECTIVE
EJ EXPANSION JOINT
EL ELEVATION
ELEC ELECTRICAL
ELEV ELEVATOR
EMBD EMBEDMENT, EMBED
EOR ENGINEER OF RECORD
EOS EDGE OF SLAB
EPL EMBEDDED PLATE
EQ EQUAL
EQUIP EQUIPMENT
ES EACH SIDE
EW EACH WAY
EWTB EACH WAY TOP AND BOTTOM
EXP EXPANSION
EXT EXTERIOR

F FAHRENHIET
FDN FOUNDATION
FF FAR FACE
FIN FINISH
FJ FLOOR JOIST
FLG FLANGE
FLR FLOOR
FN FIELD NAILING
FO FACE OF
FOC FACE OF CONCRETE
FOF FACE OF FINISH
FOS FACE OF STUD
FOW FACE OF WALL
FRMG FRAMING
FS FAR SIDE
FT FOOT, FEET, FLUSH TOP
FTG FOOTING

GA GAGE, GAUGE
GALV GALVANIZED
GR GRADE
GRND GROUND
GRTG GRATING

HCA HEADED CONCRETE ANCHOR
HGR HANGER
HORIZ, (H) HORIZONTAL
HP HIGH POINT
HR HANDRAIL
HS HIGH STRENGTH
HSB HIGH STRENGTH BOLT
HT HEIGHT

ICC-ES INTERNATIONAL CODE COUNCIL EVALUATION SERVICE
ID INSIDE DIAMETER
IE INVERT ELEVATION
I.F INSIDE FACE
IN INCH
INFO INFORMATION
INSU INSULATING
INT INTERIOR
INTER INTERMEDIATE

JST JOIST
JT JOINT

K KIP
KSF KIP PER SQUARE FOOT
KSI KIP PER SQUARE INCH

LG LONG
LLBB LONG LEG BACK TO BACK
LLH LONG LEG HORIZONTAL
LLV LONG LEG VERTICAL
LONGIT LONGITUDINAL
LP LOW POINT
LSH LONG SLOTTED HOLE
LT LIGHT
LWC LIGHTWEIGHT CONCRETE

MAX MAXIMUM
MB MACHINE BOLT
MC MOMENT CONNECTION
MECH MECHANICAL
MEZZ MEZZANINE
MFR MANUFACTURE(R)
MIN MINIMUM
MISC MISCELLANEOUS
MTL METAL

(N) NEW
NF NEAR FACE
NIC NOT IN CONTRACT
NIP NOT IN PERMIT
N0 NUMBER, NORTH
N0M NOMINAL
NS NEAR SIDE
NTS NOT TO SCALE
NWC NORMAL WEIGHT CONCRETE

O/ OVER
OC ON CENTER
OCBF ORDINARY CONCENTRICALLY BRACED FRAME
OD OUTSIDE DIAMETER
O.F OUTSIDE FACE
OH OPPOSITE HAND
OPNG OPENING
OVS OVERSIZED

P/C PRECAST
PC PIECE, PILECAP
PERP PERPENDICULAR
PJ POUR JOINT
PJP PARTIAL JOINT PENETRATION
PL or P̲ PLATE
PLCS PLACES
PLMB PLUMBING
PQR PROCEDURE QUALIFICATION RECORD
PROJ PROJECTION
PSF POUNDS PER SQUARE FOOT
PSI POUNDS PER SQUARE INCH

R RADIUS, RISER
REF REFERENCE
REINF REINFORCING
REMV REMOVABLE, REMOVE
REQD REQUIRED
RET RETURN
RF ROOF
RJ ROOF JOIST
ROTN ROTATION
RTNG RETAINING

SAD SEE ARCHITECTURAL DRAWING(S)
SCBF SPECIAL CONCENTRICALLY BRACED FRAME
SCHED SCHEDULE
SECT SECTION
SEOR STRUCTURAL ENGINEER OF RECORD
SEP SEPARATION
SFRS SEISMIC FORCE RESISTING SYSTEM
SHT SHEET
SIM SIMILAR
SL SLOPE
SLBB SHORT LEG BACK TO BACK
SLRS SEISMIC LOAD RESISTING SYSTEM
SMS SHEET METAL SCREW
SMOD STRUCTURAL MODEL - PERSPECTIVE VIEW
SO SOUTH
SOF SOFFIT
SOG SLAB-ON-GRADE
SPECS SPECIFICATIONS
SQ SQUARE
SSH SHORT SLOTTED HOLE
SSMF SPECIAL STEEL MOMENT FRAME
STAG STAGGER
STD STANDARD
STIFF STIFFENER
STIR STIRRUP
STL STEEL
STRUCT STRUCTURAL
SYMM SYMMETRY

T TREAD, TOP
T&B TOP AND BOTTOM
TC TOP CHORD
THD THREAD
THK THICK, THICKNESS
TLL TOP LOWER LAYER
T.O TOP OF
TOC TOP OF CONCRETE
TOD TOP OF STEEL DECK
TOF TOP OF FOOTING
TOG TOP OF GRATING
TOPC TOP OF PILE CAP
TOS TOP OF STEEL
TOW TOP OF WALL
TUL TOP UPPER LAYER
TYP TYPICAL

UNO UNLESS NOTED OTHERWISE

VERT, (V) VERTICAL
VIF VERIFY IN FIELD

W/ WITH
W/O WITHOUT
WL WORK LINE
WP WORK POINT
WPS WELD PROCEDURE SPECIFICATIONS
WT WEIGHT
WWF WELDED WIRE FABRIC

Detail Section
Wall Section
Braced Frame Elevation
Bulding Elevation
Detail Callout / Enlarge Plan
Detail Callout
Extent Arrows
Slope Arrow
Difference in Elevation
TOC EL +10'-0" Spot Elevation
Matchline

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REGISTERED PROFESSIONAL ENGINEER KENNETH H. SALTER NO. S4082 REV. 12/31/18 STRUCTURAL STATE OF CALIFORNIA

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DSA-103 rev 9/7/2016

Listing of Structural Tests & Special Inspections - 2013 CBC

INCREMENT #	
DSA File No.:	37-C1
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Revised:	

List of required verified report(s):

1 Soils testing and Inspection: Geotechnical Verified Report - Form DSA-293
2 All Structural Testing: Laboratory Verified Report - Form DSA-291
3 Concrete Batch Plant Inspection: Laboratory Verified Report - Form DSA-291, or, for independently contracting SI, Special Inspection Verified Report - Form DSA-292
4 Masonry Inspection: Laboratory Verified Report - Form DSA-291, or, for independently contracting SI, Special Inspection Verified Report - Form DSA-292
5 Shear Welding Inspection: Laboratory Verified Report - Form DSA-291, or, for independently contracting SI, Special Inspection Verified Report - Form DSA-292
6 Field Welding Inspection: Laboratory Verified Report - Form DSA-291, or, for independently contracting SI, Special Inspection Verified Report - Form DSA-292
7 HS Bolt Installation Inspection: Laboratory Verified Report - Form DSA-291, or, for independently contracting SI, Special Inspection Verified Report - Form DSA-292

KEY to Columns	
1 Type -	2 Performed By -
Continuous – Indicates that a continuous special inspection is required	**GE** – Indicates that the special inspection is to be performed by a registered geotechnical engineer or his or her authorized representative
Periodic – Indicates that a periodic special inspection is required	**LOR** – Indicates that the test or inspection is to be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See section 4-335, 2013 CCR Title 24, Part 1.
Test – Indicates that a test is required	**SI** – Indicates that the special inspection is to be performed by a special inspector

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Name of Architect or Engineer in general responsible charge
Robert Randall, S.E.
Name of Structural Engineer (When structural design has been e
Signature of Architect or Structural Engineer

REGISTERED PROFESSIONAL ENGINEER ROBERT WAYNE RANDALL No. S4982 EXP 12/31/18 STRUCTURAL STATE OF CALIFORNIA

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Revised:	

School Name	Palomar Community College	District	Palomar Community College District

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A.
NOTE: This form is also available for projects submitted for review under the 2007 and 2010

INSTRUCTIONS: Click a plus sign (+) before any category or subcategory to reveal additional tests and special inspections. A shaded box indicates a test or special inspection that may be required, depending on the scope of the construction and other issues. A shaded box can be clicked indicating your selection of that test. **Note:** A minus (-) on a category or subcategory heading indicates that it can be collapsed. However, any selections you may have made will be cleared. Click on the "COMPILE" button to show only the tests and inspections finally selected.
For more information on use of this form, see DSA-103.INSTR.

Note: References are to the 2013 edition of the California Building Code (CBC) unless otherwise noted.

REQUIRED	TEST OR SPECIAL INSPECTION	TYPE*	PERFORMED BY**	CODE REFERENCE AND NOTES
-	**SOILS**			
-	**1. GENERAL:**	Table 1705A.6		
X	a. Verify that: • site has been prepared properly prior to placement of controlled fill and/or excavations for foundations, • foundation excavations are extended to proper depth and have reached proper material, and • materials below footings are adequate to achieve the design bearing capacity.	Periodic	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix for exemptions.)
-	**2. COMPACTED FILLS:**	Table 1705A.6		
X	a. Perform laboratory testing of fill materials.	Test	LOR*	* Under the supervision of the geotechnical engineer.
X	b. Verify use of proper materials and inspect lift thicknesses, placement, and compaction during placement of fill.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
X	c. Test compaction of fill.	Test	LOR*	* Under the supervision of the geotechnical engineer.
-	**CONCRETE**	Table 1705A.3		
-	**7. CAST IN PLACE CONCRETE**			
	Material Verification and Testing:			
X	a. Verify use of required design mix.	Periodic	SI*	* To be performed by qualified batch-plant inspector and concrete sampling technician
X	b. Test reinforcing steel.	Test	LOR	**1913A.2** (1913.2.6*), ASTM A370. DSA IR 17-10
X	c. Perform slump, temperature, air content tests, and sample concrete.	Test	LOR	ASTM C172, ASTM C31.
X	d. Test concrete (compression).	Test	LOR	**ACI 318 Section 5.6 and 1905A.1.2** (1913.3.1*), ASTM C39.
	Inspection:			

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Appendix: Work Exempt from DSA Requirements for Special Inspection or Structural Testing

Exempt items given in IR A-22 or the 2013 CBC (including DSA amendments) and those items identified below with an "X" by the design professional are NOT subject to DSA requirements for structural tests and special inspections. The project inspector shall verify all construction complies with the approved construction documents.

Exempted by Design Prof.	Soils:
X	1. Deep foundations acting as a cantilever footing designed based on minimum allowable pressures per 2013 CBC Table 1806A.2 and having no geotechnical report for the following types of structures: free standing sign, scrolling message sign, scoreboard, covered walkway or shade structure with dead load less than 5 psf and other light-weight structures of which the apex is less than 8' above the highest adjacent grade.
X	2. Shallow foundations meeting the exception item #1 criteria specified in 2013 CBC Section 1803A.2.
	(Optional) List details for applicable exempt items:
	Concrete/Masonry:
X	1. Post-installed anchors for the following: 1) exempt non-structural components (e.g., mechanical, electrical, plumbing equipment) given in ASCE 7-10, Section 13.1.4 (and modified by CBC Section 1616A.1.18) or 2) interior nonstructural wall partitions meeting criteria listed in exempt item 3 for "Welding."

Exempted by Design Prof.	Welding:
X	1. Solid-clad and open-mesh gates with maximum leaf span or rolling section for rolling gates of 10' and apex height less than 8'-0" above lowest adjacent grade. When located above circulation or occupied space below, these gates are not located within 1.5x gate/fence height (max 8'-0") to the edge of floor or roof.
X	2. Handrails, guardrails, and modular or relocatable ramps associated with walking surfaces less than 30" above adjacent grade (excluding post base connections); fillet welds cannot be ground flush.
X	3. Non-structural interior cold-formed steel framing spanning less than 15'-0", such as in interior partitions, interior soffits, etc. supporting only self weight and light-weight finishes or adhered tile, masonry, stone, or terra cotta veneer no more than 5/8" thickness and apex less than 20'-0" in height and not over an exit way. Maximum tributary load to a member shall not exceed the equivalent of that occurring from a 10'x10' opening in a 15' tall wall for a header or king stud.
X	4. Manufactured support frames and curbs using hot rolled or cold-formed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment weighing less than 2000# (equipment only) (connections of such frames to superstructure elements using welding will require special inspection as noted in selected item(s) for section 19, 19.1 and/or 19.2 of listing above).
X	5. Manufactured components (e.g., Tolco, B-Line, Atlcon, etc.) for mechanical, electrical, or plumbing hanger support and bracing (connections of such components to superstructure elements using welding will require special inspection as noted in selected item(s) for section 19, 19.1 and/or 19.2 of listing above).

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X	e. Batch plant inspection	Continuous	SI	**1705A.3.2.** If approved by DSA, batch plant inspection may be reduced to periodic if plant complies with **1705A.3.3**, Item 1, and requires first batch inspection, weighmaster, and batch tickets.
~~X~~	~~f. Batch plant inspection - design samples with 1705A.3.2 Item 2~~	~~Periodic~~	~~SI~~	~~**1705A.3.3**, Item 2. Requires first batch inspection, weighmaster, and batch tickets.~~
X	h. Welding of reinforcing steel.	Provide special inspection per STEEL, category 19.1(d) & (e) and/or 19.2(g) & (h) below.		
-	**11. POST-INSTALLED ANCHORS:**			
X	a. Inspect installation of post-installed anchors	Periodic	SI*	**Table 1705A.3** (See Appendix for exemptions.) * May be performed by the project inspector when specifically approved by DSA.
X	b. Test post-installed anchors.	Test	LOR	**1913A.7** (1913.2.11*), ASTM E488. (See Appendix for exemptions.)
-	**MASONRY**	TMS 402-11/ACI 530-11/ASCE 5-11 Table 1.19.3		
-	**13. STRUCTURAL MASONRY:**	Enter f'_m		psi
	Material Verification and testing:			
X	a. Mill certificate indicate compliance with requirements for reinforcement, anchors, ties, fasteners, and metal accessories. Test reinforcing steel.	Test	LOR	**2103A.14** (2103.14*), ASTM A370, DSA IR 17-10
X	b. Producer's certificate of compliance for masonry units, mortar and grout materials. Test masonry units, mortar and grout (unit strength method).	Test	LOR	**1705A.4 and 2105A.2.2.1** (or 2105.2.2.1* and 2114.9.1*), ASTM C140, C1586 & C1019.
X	d. Verify proportions of site-prepared, premixed or preblended mortar and grout.	Periodic	SI	ASTM C780.
X	e. Test core-drilled samples.	Test	LOR	**2105A.5** (2114.9.3*).
	Inspection:			
X	g. Verify size, location and condition of all dowels, construction supporting masonry, etc.	Periodic	SI	
X	h. Verify specified size, grade, and type of reinforcement.	Periodic	SI	
X	j. Inspect placement of reinforcement, connectors, masonry units and construction of mortar joints.	Periodic	SI	
X	k. Verify protection of masonry during cold weather (temperature below 40F F) or hot weather (temperature above 90F).	Periodic	SI	**2104A.3 and 2104A.4** (2104.3* and 2104.4*).
X	l. Inspect type, size, and location of anchors and all other items to be embedded in masonry including other details of anchorage of masonry to structural members, frames and other construction.	Continuous	SI	
X	m. Inspect grout space prior to grouting and placement of grout.	Continuous	SI	
-	**STEEL, ALUMINUM**	Table 1705A.2.1		
-	**17. STRUCTURAL STEEL, COLD-FORMED STEEL, AND ALUMINUM USED FOR STRUCTURAL PURPOSES**			
	Material Verification:			
X	a. Verify that all materials are appropriately marked and that: • Mill certificates indicate material properties that comply with requirements, • Material sizes, types and grades comply with requirements.	Periodic	*	* By special inspector or qualified technician when performed off-site.
X	b. Test unidentified materials	Test	LOR	**2203A.1** (2203.1*), ASTM A370.
X	c. Examine seam welds of HSS shapes	Periodic	SI	DSA IR 17-3.
	Inspection:			

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X	2. Concrete batch plant inspection is not required for the following, provided they are ***identified*** on the approved construction documents and the licensed weighmaster and batch ticket requirements of Section 1705A.3.3 are implemented: 1) site flatwork, 2) unenclosed site structures, including but not limited to lunch or car shelters, bleachers, solar structures, flag or light poles, or retaining walls less than 4'-0" above the top of foundation not supporting a surcharge and free standing nonbearing non-shear walls up to 6'-0" above adjacent grade, 3) controlled low-strength material backfill, 4) single-story relocatable buildings less than 2,160 square feet.
X	3. Masonry retaining walls less than 4'-0" above the top of foundation not supporting a surcharge and free standing nonbearing non-shear masonry walls up to 6'-0" above adjacent grade do not require mortar or masonry core testing or DSA special inspection. For non-bearing non-shear masonry walls not exceeding total wall height of 12' above wall base, mortar test shall be permitted to be limited to those at the beginning of masonry work for each mix design. Core sampling and testing is not required for non-bearing non-shear masonry walls, not exceeding total wall height of 12' above wall base, built with single-wythe hollow unit concrete masonry that attaches opposite face shells using webs cast as single unit, when designed using an f'm not exceeding 1,500 psi (10.34 MPa).
X	4. Epoxy shear dowels in site flatwork.
	(Optional) List details for applicable exempt items:

X	6. TV Brackets, projector mounts with a valid listing (see DSA IR A-5) and recreational equipment (e.g., playground structures, basketball backstops, etc.) (connections of such elements to superstructure elements using welding will require special inspection as noted in selected item(s) for section 19, 19.1 and/or 19.2 of listing above).
X	7. Any support for exempt non-structural components given in ASCE 7-10, Section 13.1.4 (and modified by CBC Section 1616A.1.18) meeting the following: 1) when supported on a floor/roof, <400# and resulting composite center of mass (including component's center of mass) <= 4' above supporting floor/roof, 2) when hung from a wall or roof/floor, <20# for discrete units or <5 plf for distributed systems.
	(Optional) List details for applicable exempt items:

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X	e. Verify and document steel fabrication per DSA approved construction documents.	Periodic	SI	Not applicable to cold-formed steel, except for trusses (1705A.2.2.4).
-	**18. HIGH STRENGTH BOLTS:**			
	Material Verification of High-Strength Bolts, Nuts, and Washers:			
X	a. Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA approved documents.	Periodic	SI	DSA IR 17-9
X	b. Test high-strength bolts, nuts and washers.	Test	LOR	**2213A.1** (2212.6.1*), ASTM F606, A370. DSA IR 17-8
	Inspection of High-Strength Bolt Installation:			
X	c. Bearing-type ("snug tight") connections.	Periodic	SI*	DSA IR 17-9
X	d. Slip-critical connections	*	SI	* "Continuous" or "Periodic" depends on the tightening method used, DSA IR 17-9 and **1705A.2.1.**
-	**19. WELDING:**			DSA IR 17-3, AWS D1.1 and AWS D1.8 for structural steel, AWS D1.2 for Aluminum, AWS D1.3 for cold-formed steel, AWS D1.4 for reinforcing steel. (See Appendix for exemptions.)
	Verification of Materials, Equipment, Welders, etc:			
X	a. Verify weld filler material identification markings per AWS designation listed on the DSA approved documents and the WPS.	Periodic	SI	
X	b. Verify weld filler material manufacturer's certificate of compliance.	Periodic	SI	
X	c. Verify WPS, welder qualifications and equipment.	Periodic	SI	DSA IR 17-3.
-	**19.1 SHOP WELDING:**			
X	a. Inspect groove, multi-pass fillet welds > 5/16", plug and slot welds	Continuous	SI	Per AISC 360 (and AISC 341 as applicable). DSA IR 17-3.
X	b. Inspect single-pass fillet welds ≤ 5/16"	Periodic	SI	Per AISC 360 (and AISC 341 as applicable). DSA IR 17-3.
-	**19.2 FIELD WELDING:**			
X	a. Inspect groove, multi-pass fillet welds > 5/16", plug and slot welds	Continuous	SI	Per AISC 360 (and AISC 341 as applicable). DSA IR 17-3.
X	b. Inspect single-pass fillet welds ≤ 5/16"	Periodic	SI	Per AISC 360 (and AISC 341 as applicable). DSA IR 17-3.
X	d. Inspect floor and roof deck welds	Periodic	SI	Per AISC 360 (and AISC 341 as applicable). DSA IR 17-3.
X	e. Inspect welding of structural cold-formed steel	Periodic	SI*	* May be performed by the project inspector when specifically approved by DSA. DSA IR 17-3. **1705A.2.2.1.1** and **1705A.2.2.5**
-	**20. NONDESTRUCTIVE TESTING:**			
X	a. Ultrasonic	Test	LOR	AISC 360 N5.5, AISC 341, App. Q 5.2. AWS D1.1, D1.8.- ANSI/ASNT CP-189, SNT-TC-1A. -
X	b. Magnetic Particle	Test	LOR	ASTM E543, E1444, E164 - DSA IR 17-2.
-	**23. ANCHOR BOLTS, ANCHOR RODS, & OTHER STEEL:**			
X	a. Anchor Bolts and Anchor Rods	Test	LOR	IR 17-11 Sample and test anchor bolts and anchor rods not readily identifiable.
+	**WOOD**			
+	**OTHER**			

DSA FORM 103 - FOR REFERENCE ONLY

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Ste 305,
San Diego, CA 92108
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(619) 630-9190
Project #15621

Key Plan

Consultant Seal

REGISTERED PROFESSIONAL ENGINEER ROBERT WAYNE RANDALL No. S4982 EXP 12/31/18 STRUCTURAL STATE OF CALIFORNIA

Agency Approval FILE NO. 37-C1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 04-115420
ACS — FLS — SSS KB
DATE OCT 18 2017

Project Title

PALOMAR COLLEGE®
Learning for Success

PALOMAR COLLEGE
NEW STORAGE BUILDINGS
1140 W. MISSION RD.
SAN MARCOS, CA 92069
(760) 744-1150

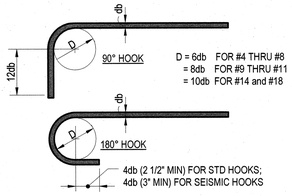
No.	Description	Date

Drawing Title:
GENERAL NOTES

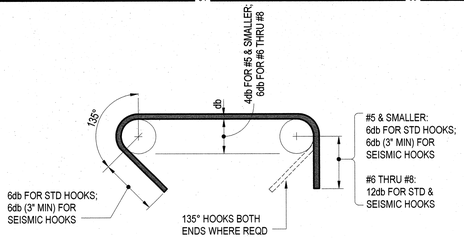
Architect's Seal

LICENSED ARCHITECT KENNETH H. SAITER NO. C-19062 11-30-18 STATE OF CALIFORNIA

Designed:	JC	Project No.	3443001-302
Drawn:	JPR	Scale:	
QAQC	RR	Drawing No.	S0.6
Date:	10/18/2017		

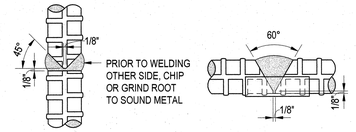


HOOKS FOR BARS OTHER THAN TIES, SITRRUPS AND HOOPS



NOTE:
1. WHERE CROSS TIES (THOSE WHERE 90° HOOKS AT ONE END ARE PERMITTED) ENGAGE SAME LONGITUDINAL BAR, CONSECUTIVE CROSS TIES SHALL HAVE THEIR 90° HOOKS ALTERNATING END FOR END ALONG LONGITUDINAL BAR.

HOOKS FOR TIES, STIRRUPS AND HOOPS

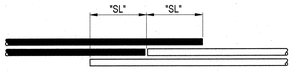


VERTICAL BAR HORIZONTAL BAR

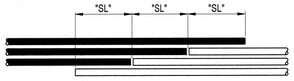
NOTES:
1. AS AN ALTERNATE TO LAP SPLICE, BUTT WELD MAY BE USED AS INDICATED ABOVE, PROVIDED THEY ARE STAGGERED @24" MINIMUM.
2. AN APPROVED TESTING LABORATORY SHALL PROVIDE A PREQUALIFICATION TENSION TEST FOR SAMPLES ON EVERY SIZE OF BAR BEING WELDED.
3. MATERIALS, CONDITIONS AND WELDING PROCEDURES UTILIZED SHALL COMPLY WITH THE CURRENT APPLICABLE BUILDING CODE AND THE REQUIREMENTS OF THE GOVERNING INSPECTION AGENCY.
4. GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL COSTS INCURRED IN OBTAINING APPROVAL.

TYPICAL TIE REQUIREMENT IN FRAME & GRAVITY COLUMNS AND SHEAR WALL BOUNDARY ELEMENT	8	3/4" = 1'-0"

TYPICAL REINFORCING BUTT WELDS DETAIL (ALTERNATE TO SPLICES)	4	3/4" = 1'-0"



2 BAR BUNDLE SPLICE DETAIL

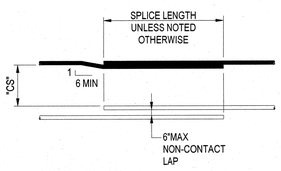


3 BAR BUNDLE SPLICE DETAIL

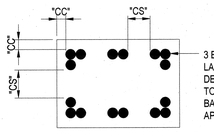
NOTES:
1. BARS SHALL BE BUNDLED WITH NO MORE THAN 2 BARS IN SAME PLANE
2. "SL" INDICATES SPLICE LENGTH AT BUNDLED BARS. SEE REINFORCING SPLICE NOTE 5.

TYPICAL BUNDLED LAP SPLICES

TYPICAL STAGGERED LAP SPLICING DETAIL



TYPICAL LAP SPLICE DETAIL



TYPICAL BAR CONCRETE COVER & CLEAR SPACING DIAGRAM

REINFORCING SPLICE NOTES:

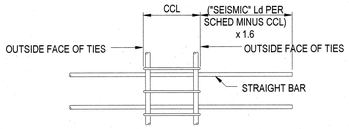
1. SCHEDULED SPLICE LENGTHS ARE IN ACCORDANCE WITH ACI 318-11 AND APPLY TO REBAR Fy=60 KSI. LENGTHS ARE FROM CHAPTER 12 (NON-SEISMIC ELEMENTS) AND CHAPTER 21 (SEISMIC ELEMENTS).
2.

CATEGORY	DESCRIPTION
1	2db ≤ CC AND 4db ≤ CS
2	[db ≤ CC < 2db & 2db ≤ CS] OR [db ≤ CC & 2db ≤ CS < 4db]
3	1/2db ≤ CC < db OR db ≤ CS < 2db
CC INDICATES CONCRETE COVER, CS INDICATES BAR CLEAR SPACING.	

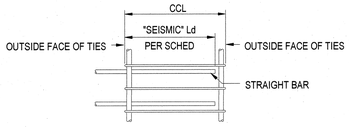
3. IF CC < 1/2db OR CS < db CONTACT SEOR FOR REQUIRED SPLICE LENGTH.
4. TOP BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 12" OF FRESH CONCRETE POURED BELOW BARS.
5. FOR BUNDLED BARS, AN EFFECTIVE BAR DIAMETER (dbe) SHALL BE USED FOR DETERMINING COVER AND SPACING LIMITATIONS:
   a. FOR 2 BAR BUNDLE dbe = 1.414db
   b. FOR 3 BAR BUNDLE dbe = 1.732db
   c. FOR 4 BAR BUNDLE dbe = 2.000db
6. WHERE BARS OF DIFFERENT SIZES ARE LAP SPLICED, LAP SPLICE LENGTH SHALL BE THE LARGER OF Ld (STRAIGHT BAR DEVELOPMENT) FOR LARGER BAR AND LAP SPLICE LENGTH OF SMALLER BAR.
7. SPLICES LENGTHS MAY BE REDUCED 23% IF SPECIFICALLY NOTED ON STRUCT DRAWINGS AS CLASS "A" SPLICE.
8. APPLY THE FOLLOWING MULTIPLIERS TO SCHEDULED SPLICE LENGTHS FOR EACH INSTANCE BELOW WHICH APPLIES:
   a. FOR REBAR YIELD STRENGTHS OTHER THAN 60 KSI, MULTIPLY SPLICE LENGTHS IN SCHEDULE BY RATIO OF ACTUAL YIELD STRENGTH / 60,000.
   b. SPLICE ALL LONGITUDINAL BARS IN SHEAR WALLS AND DIAGONAL BARS IN COUPLING BEAMS BY MULTIPLYING SPLICE LENGTHS IN SCHEDULE BY 1.25 UNO ON STRUCT DWGS.
   c. FOR 3-BAR BUNDLES, MULTIPLY SPLICE LENGTHS IN SCHEDULE BY 1.20. FOR 4-BAR BUNDLES, MULTIPY SPLICE LENGTHS IN SCHEDULE BY 1.33. ENTIRE BUNDLE SHALL NOT BE LAP SPLICED.
   d. FOR LIGHTWEIGHT CONCRETE, MULTIPLY SPLICE LENGTHS IN SCHEDULE BY 1.33.
   e. FOR EPOXY COATED BARS WITH CC < 3db OR CS < 6db, MULTIPLY SPLICE LENGTHS IN SCHEDULE BY 1.50. FOR OTHER EPOXY COATED BARS, MULTIPLY SPLICE LENGTHS IN SCHEDULE BY 1.20.

SPLICE LENGTH SCHEDULE IN INCHES
(APPLICABLE TO REBAR W/ 60 KSI YIELD STRENGTH)

NORMAL WEIGHT CONCRETE (f'c PSI)		3000 PSI						4000 PSI						5000 PSI					
CATEGORY		1		2		3		1		2		3		1		2		3	
BAR SIZE	BAR DIAMETER (db)	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS
#4	0.500	23	18	38	29	56	43	20	15	33	25	49	37	18	14	29	23	44	34
#5	0.625	28	22	47	36	70	54	25	19	41	31	61	47	22	17	36	28	54	42
#6	0.750	34	26	56	43	84	65	29	23	49	37	73	56	26	20	44	34	65	50
#7	0.875	49	38	81	63	122	94	43	33	71	54	106	81	38	29	63	49	95	73
#8	1.000	56	43	93	72	139	107	49	37	81	62	121	93	44	34	72	56	108	83
#9	1.128	63	49	105	81	157	121	55	42	91	70	136	105	49	38	81	63	122	94
#10	1.270	71	55	118	91	177	136	62	47	102	79	153	118	55	43	92	71	137	106
#11	1.410	79	61	131	101	196	151	68	53	114	87	170	131	61	47	102	78	152	117



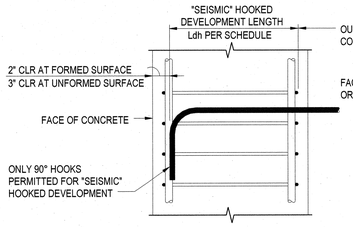
CONDITION WHERE "SEISMIC" Ld IS GREATER THAN CONFINED CORE LENGTH CCL



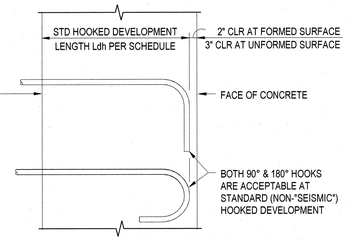
CONDITION WHERE "SEISMIC" Ld FITS WITHIN CONFINED CORE

NOTE:
"CCL" INDICATES CONFINED CORE LENGTH OF SPECIAL MOMENT FRAME COLUMNS.

STRAIGHT "SEISMIC" DEVELOPMENT Ld AT CONFINED CORES OF SPECIAL MOMENT FRAME COLUMNS



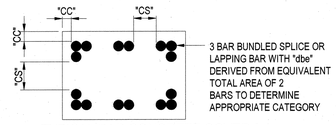
"SEISMIC" HOOKED DEVELOPMENT



STANDARD (NON-"SEISMIC") HOOKED DEVELOPMENT

NOTES:
A. ALL HOOKED BARS SHALL EXTEND TO THE FAR FACE OF CONCRETE, AS MUCH AS PRACTICAL, WITH 2" MINIMUM END COVER AND WITH DEVELOPMENT NOT LESS THAN LENGTHS INDICATED IN SCHEDULE INCLUDING APPROPRIATE MULTIPLIERS.
B. PROVIDE 2 1/2" MINIMUM CONCRETE SIDE COVER.
C. "SEISMIC" HOOKED DEVELOPMENT LENGTH Ldh IN SCHEDULE INCLUDING APPROPRIATE MULTIPLIERS APPLY TO BARS W/ STD 90° HOOKS LOCATED WITHIN A CONFINED CORE OF SPECIAL MOMENT FRAME COLUMNS. 180° HOOKS ARE NOT PERMITTED FOR "SEISMIC" HOOKED DEVELOPMENT.

HOOKED DEVELOPMENT Ldh



TYPICAL BAR CONCRETE COVER & CLEAR SPACING DIAGRAM

STRAIGHT DEVELOPMENT LENGTH SCHEDULE (Ld) IN INCHES
(APPLICABLE TO REBAR W/ 60 KSI YIELD STRENGTH)

NORMAL WEIGHT CONCRETE (f'c PSI)		3000 PSI								4000 PSI								5000 PSI							
CATEGORY		1		2		3		SEISMIC (SEE NOTE 6)		1		2		3		SEISMIC (SEE NOTE 6)		1		2		3		SEISMIC (SEE NOTE 6)	
BAR SIZE	BAR DIAMETER (db)	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS
#4	0.500	18	14	29	22	43	33	28	22	15	12	25	19	37	29	24	19	14	12	23	17	34	26	22	17
#5	0.625	22	17	36	28	54	42	35	27	19	15	31	24	47	36	30	23	17	13	28	22	42	32	27	21
#6	0.750	26	20	43	33	65	50	42	32	23	18	37	29	56	43	36	28	20	16	34	26	50	39	32	25
#7	0.875	38	29	63	48	94	72	48	37	33	25	54	42	81	63	42	32	29	23	49	38	73	56	38	29
#8	1.000	43	33	72	55	107	83	55	43	37	29	62	48	93	72	48	37	34	26	56	43	83	64	43	33
#9	1.128	49	38	81	62	121	93	62	48	42	33	70	54	105	81	54	42	38	29	63	48	94	72	48	37
#10	1.270	55	42	91	70	136	105	70	54	47	37	79	61	118	91	61	47	43	33	71	54	106	81	54	42
#11	1.410	61	47	101	78	151	116	78	60	53	41	87	67	131	101	67	52	47	36	78	60	117	90	60	47
#14	1.693	73	56	121	93	181	140	-	-	63	49	105	81	157	121	-	-	57	44	94	72	141	108	-	-
#18	2.257	97	75	161	124	242	186	-	-	84	65	140	108	209	161	-	-	75	58	125	96	187	144	-	-

HOOKED DEVELOPMENT LENGTH SCHEDULE (Ldh) IN INCHES
(APPLICABLE TO REBAR W/ 60 KSI YIELD STRENGTH)

NORMALWEIGHT CONCRETE (f'c PSI)		3000 PSI		4000 PSI		5000 PSI		6000 PSI		7000 PSI		8000 PSI	
BAR SIZE	BAR DIAMETER (db)	STANDARD	SEISMIC (SEE NOTE 7)	STANDARD	SEISMIC (SEE NOTE 7)	STANDARD	SEISMIC (SEE NOTE 7)	STANDARD	SEISMIC (SEE NOTE 7)	STANDARD	SEISMIC (SEE NOTE 7)	STANDARD	SEISMIC (SEE NOTE 7)
#4	0.500	8	9	7	8	6	6	6	6	6	6	6	6
#5	0.625	10	11	9	10	8	9	7	8	7	7	6	7
#6	0.750	12	13	10	11	9	10	9	9	8	9	8	8
#7	0.875	14	15	12	13	11	12	10	11	9	10	9	10
#8	1.000	16	17	14	15	12	14	11	12	11	12	10	11
#9	1.128	18	20	15	17	14	15	13	14	12	13	11	12
#10	1.270	20	22	17	19	16	17	14	16	13	15	12	14
#11	1.410	22	24	19	21	17	19	16	17	15	16	14	15
#14	1.693	38	-	33	-	29	-	27	-	25	-	23	-
#18	2.257	50	-	43	-	39	-	35	-	33	-	31	-

REINFORCING DEVELOPMENT NOTES:

1. SCHEDULED DEVELOPMENT LENGTHS ARE IN ACCORDANCE WITH ACI 318-11 AND APPLY TO REBAR Fy=60 KSI. LENGTHS ARE FROM CHAPTER 12 (NON-SEISMIC ELEMENTS) AND CHAPTER 21 (SEISMIC ELEMENTS).
2.

CATEGORY	DESCRIPTION
1	2db ≤ CC AND 4db ≤ CS
2	[db ≤ CC < 2db & 2db ≤ CS] OR [db ≤ CC & 2db ≤ CS < 4db]
3	1/2db ≤ CC < db OR db ≤ CS < 2db
SEISMIC	SEE NOTES 6 & 7
CC INDICATES CONCRETE COVER, CS INDICATES BAR CLEAR SPACING.	

3. IF CC < 1/2db OR CS < db CONTACT SEOR FOR REQUIRED DEVELOPMENT LENGTH.
4. TOP BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 12" OF FRESH CONCRETE POURED BELOW BARS.
5. FOR BUNDLED BARS, AN EFFECTIVE BAR DIAMETER (dbe) SHALL BE USED FOR DETERMINING COVER AND SPACING LIMITATIONS:
   a. FOR 2 BAR BUNDLE dbe = 1.414db
   b. FOR 3 BAR BUNDLE dbe = 1.732db
   c. FOR 4 BAR BUNDLE dbe = 2.000db
6. "SEISMIC" STRAIGHT DEVELOPMENT LENGTH Ld IN SCHEDULE APPLIES TO STRAIGHT BARS TERMINATING IN OR PASSING THROUGH CONFINED CORES OF SPECIAL MOMENT FRAME COLUMNS.
7. "SEISMIC" HOOKED DEVELOPMENT LENGTH Ldh IN SCHEDULE APPLIES TO BARS W/ STD 90° HOOKS LOCATED WITHIN A CONFINED CORE OF SPECIAL MOMENT FRAME COLUMNS.
8. APPLY THE FOLLOWING MULTIPLIERS TO SCHEDULED DEVELOPMENT LENGTHS FOR EACH INSTANCE BELOW WHICH APPLIES:
   a. FOR REBAR YIELD STRENGTHS OTHER THAN 60 KSI, MULTIPLY DEVELOPMENT LENGTHS Ld & Ldh IN SCHEDULE BY RATIO OF ACTUAL YIELD STRENGTH / 60,000.
   b. DEVELOP ALL LONGITUDINAL BARS IN SHEAR WALLS AND DIAGONAL BARS IN COUPLING BEAMS BY MULTIPLYING DEVELOPMENT LENGTHS Ld & Ldh IN SCHEDULE BY 1.25 UNO ON STRUCT DWGS.
   c. FOR 3-BAR BUNDLES, MULTIPLY DEVELOPMENT LENGTHS Ld & Ldh IN SCHEDULE BY 1.20. FOR 4-BAR BUNDLES, MULTIPY DEVELOPMENT LENGTHS Ld & Ldh IN SCHEDULE BY 1.33.
   d. FOR LIGHTWEIGHT CONCRETE, MULTIPLY STRAIGHT DEVELOPMENT LENGTH Ld IN SCHEDULE BY 1.33. FOR LIGHTWEIGHT CONCRETE, MULTIPLY HOOKED DEVELOPMENT LENGTH Ldh IN SCHEDULE BY 1.33 (1.25 FOR "SEISMIC" CONDITIONS AS DEFINED IN NOTE 7).
   e. FOR EPOXY COATED BARS WITH CC < 3db OR CS < 6db, MULTIPLY STRAIGHT DEVELOPMENT LENGTH Ld IN SCHEDULE BY 1.50. FOR STRAIGHT DEVELOPMENT FOR OTHER EPOXY COATED BARS, MULTIPLY STRAIGHT DEVELOPMENT LENGTH Ld IN SCHEDULE BY 1.20. FOR EPOXY COATED BARS, MULTIPLY HOOKED DEVELOPMENT LENGTH Ldh IN SCHEDULE BY 1.20.

TYPICAL REINFORCING GRADE 60 SPLICE SCHEDULE AND DETAILS	9	3/4" = 1'-0"

TYPICAL REINFORCING STRAIGHT AND HOOKED DEVELOPMENT LENGTH SCHEDULE	1	3/4" = 1'-0"

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Project #15621

Key Plan

Consultant Seal

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No.	Description	Date

Drawing Title:
TYPICAL CONCRETE DETAILS

Architect's Seal

Designed: JC	Project No. 3443001-302
Drawn: JPR	Scale: 3/4" = 1'-0"
QA/QC RR	Drawing No. S1.1
Date: 10/18/2017	

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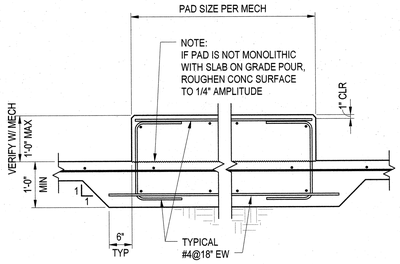
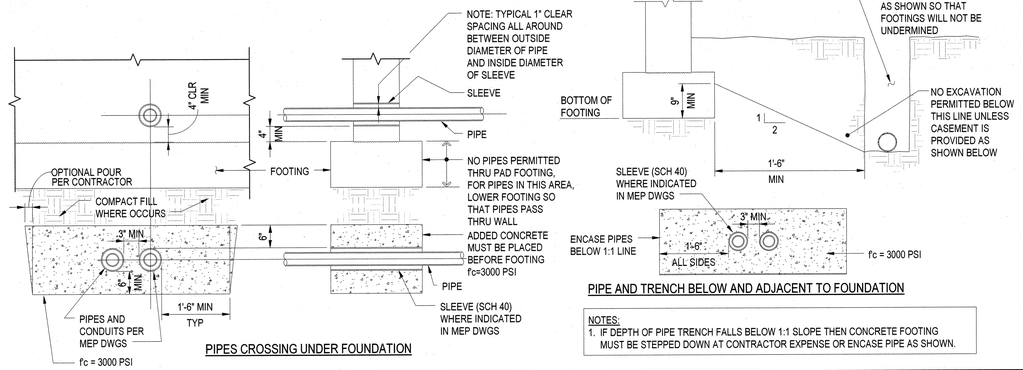
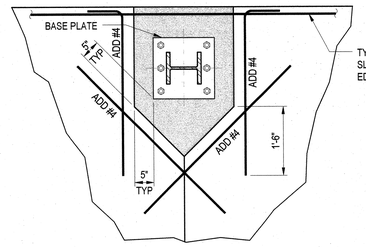


TYPICAL MECHANICAL PAD AT SLAB ON GRADE DETAIL — 12 — 3/4" = 1'-0"

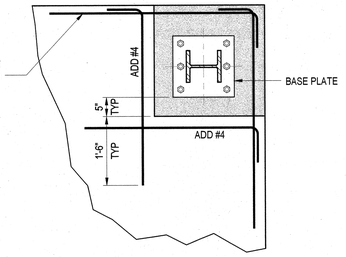


NOTES:
1. IF DEPTH OF PIPE TRENCH FALLS BELOW 1:1 SLOPE THEN CONCRETE FOOTING MUST BE STEPPED DOWN AT CONTRACTOR EXPENSE OR ENCASE PIPE AS SHOWN.

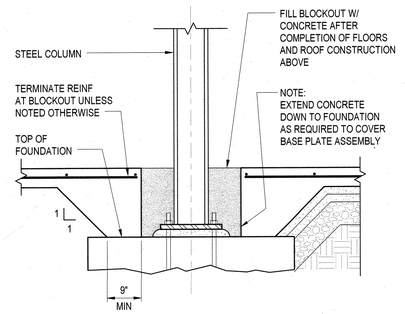
TYPICAL PIPES THRU OR TRENCHES ADJACENT TO FOUNDATION — 11 — 3/4" = 1'-0"



EDGE



CORNER

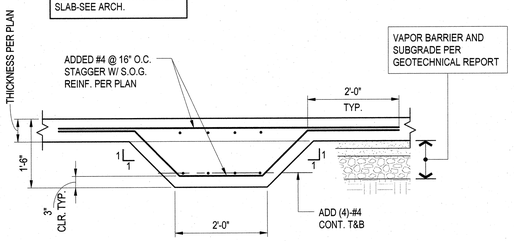


TYPICAL ELEVATION

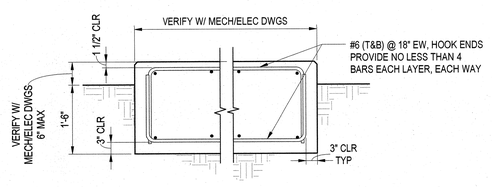
CONC-SOGD-0003

TYPICAL BLOCKOUTS IN CONCRETE SLAB ON GRADE AT STEEL COLUMNS — 3 — 3/4" = 1'-0"

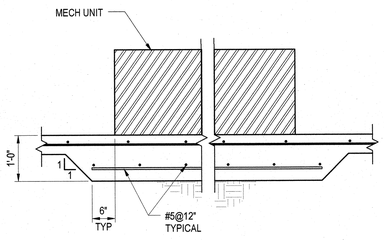
NOTE:
TYPICAL S.O.G. REINF. NOT SHOWN FOR CLARITY.
CENTER BASE PL. OF ARCH'L FENCE POST ON THICKENED SLAB-SEE ARCH.



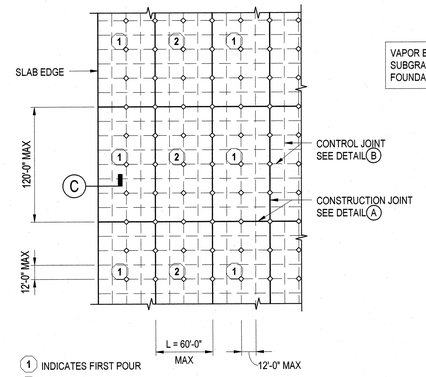
TYPICAL THICKENED SLAB @ FENCE POST — 10 — 3/4" = 1'-0"



TYPICAL EXTERIOR MECHANICAL PAD DETAIL — 13 — 3/4" = 1'-0"

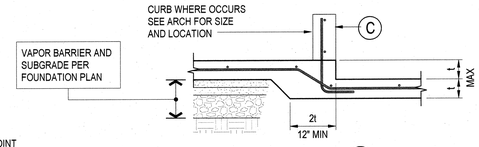


TYPICAL MECHANICAL THICKENED SLAB ON GRADE DETAIL — 9 — 3/4" = 1'-0"

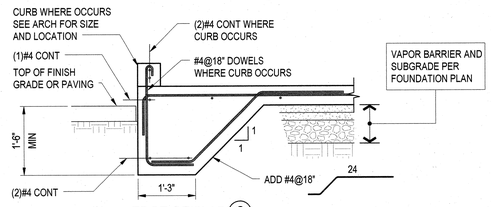


NOTES:
1. LOCATE CONSTRUCTION JOINTS ON CL OF COLUMNS AND UNDER PARTITIONS AS PRACTICAL AS POSSIBLE.
2. PROVIDE CONTROL JOINTS AT CL OF COLUMNS IF NO CONSTRUCTION JOINTS OCCUR.
3. CONTRACTOR TO SUBMIT A JOINTING PLAN TO ARCHITECT FOR REVIEW.

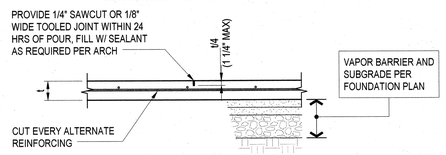
SLAB POUR METHOD LAYOUT (F)



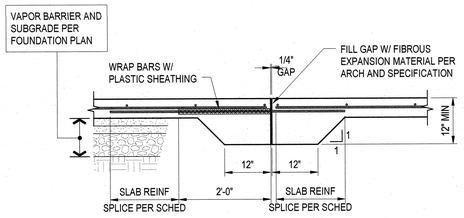
SLAB DEPRESSION (D)



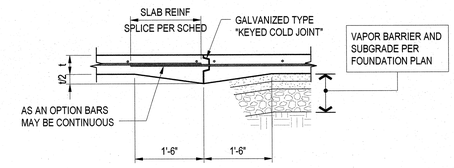
EDGE OF SLAB (C)



CONTROL JOINT (B)



EXPANSION JOINT (E)



POUR / CONSTRUCTION JOINT (A)

TYPICAL CONCRETE SLAB ON GRADE DETAILS — 1 — 3/4" = 1'-0"

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Key Plan

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REGISTERED PROFESSIONAL ENGINEER
RAJIE A. RAZO
No. S5082
EXP. 12/31/18
STRUCTURAL
STATE OF CALIFORNIA

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No.	Description	Date

Drawing Title:
TYPICAL CONCRETE DETAILS

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LICENSED ARCHITECT
KENNETH H. SALTER
NO. C-19082
REN. 11-30-18
STATE OF CALIFORNIA

Designed:	JC	Project No.	3443001-302
Drawn:	JPR	Scale:	3/4" = 1'-0"
QA/QC	RR	Drawing No.	S1.2
Date:	10/18/2017		

DSA APPROVAL

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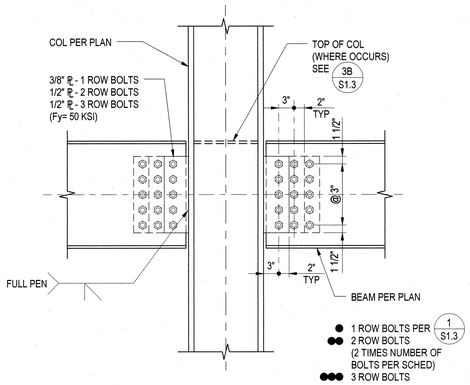
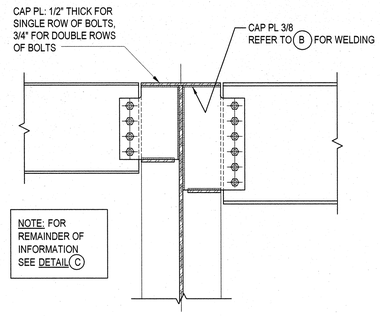
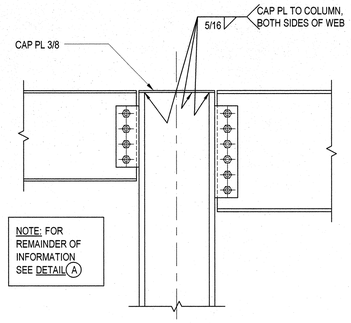


DETAIL AT CONT / TOP COLUMN (A)

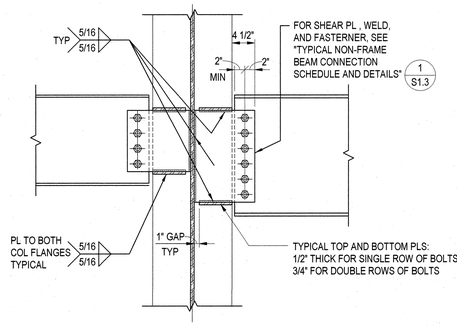
BEAM TO COL WEB INDICATES THIS ON PLAN



DETAIL AT TOP OF COLUMN (D)

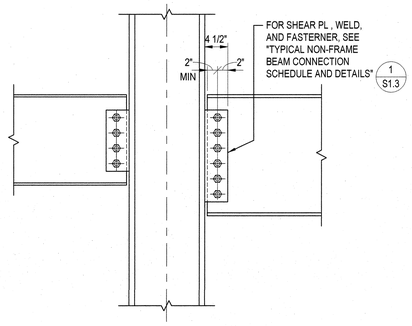


DETAIL AT TOP OF COLUMN (B)



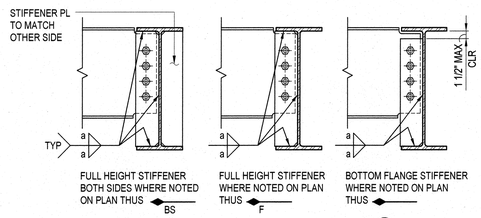
DETAIL AT CONTINUOUS COLUMN (C)

BEAM TO COLUMN FLANGE, INDICATED THUS ON PLAN:



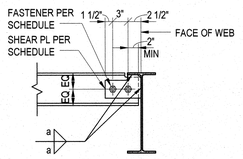
DETAIL AT CONTINUOUS COLUMN (A)

BEAM TO COLUMN WEB, INDICATED THUS ON PLAN:

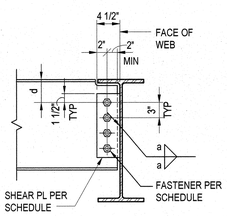


TYPICAL BEAM STIFFENER SHEAR PLATE DETAILS (E)

NOTES:
1. MINIMUM WIDTH OF STIFFENER SHALL EXTEND TO THE EDGE OF BEAM FLANGE
2. FOR REMAINDER OF INFORMATION, SEE TYPICAL BEAM CONNECTION DETAIL A



Wx & Cx CONNECTION (C)



TYPICAL BEAM CONNECTION (A)

BEAM CONNECTION SCHEDULE

BEAM SIZE	SHEAR PLATE (A36)			
	THICKNESS (IN)	WELD "a"	FASTENER (A325-N HSB)	DISTANCE "d"
W6x, C6x	3/8	1/4	2-3/4"Ø	-
W8x, C8x	3/8	1/4	2-3/4"Ø	2 1/2"
W10x, C10x	3/8	1/4	2-3/4"Ø	3 1/2"
W12x, C12x MC12x	3/8	5/16	3-7/8"Ø	3"
W14x	3/8	5/16	3-7/8"Ø	4"
W16x	3/8	5/16	4-7/8"Ø	3 1/2"

TYPICAL DRAG BEAM TO COLUMN CONNECTION DETAILS | 11 | 1" = 1'-0"

TYPICAL NON-FRAME BEAM TO COLUMN CONNECTIONS | 3 | NTS

TYPICAL NON-FRAME BEAM CONNECTION SCHEDULE AND DETAILS | 1 | NTS

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Key Plan

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No.	Description	Date

Drawing Title:
TYPICAL STEEL DETAILS

Architect's Seal

Designed:	JC	Project No.	3443001-302
Drawn:	JPR	Scale:	1" = 1'-0"
QAQC	RR	Drawing No.	S1.3
Date:	10/18/2017		

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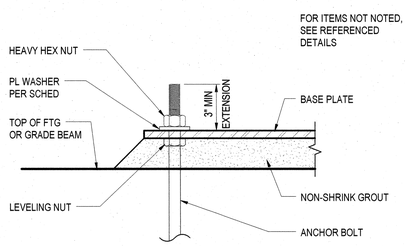
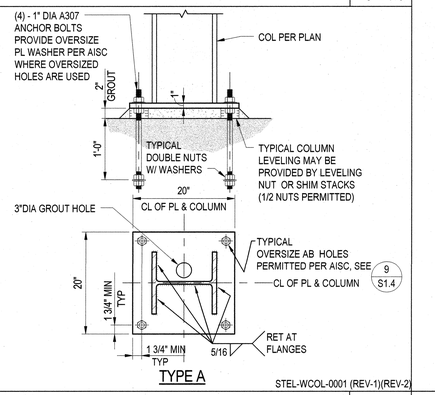


BOLT DIA	MAX HOLE DIA	MIN PL WASHER
3/4"	1 15/16"	2" SQ x 1/4"
7/8"	1 9/16"	2 1/2" SQ x 5/16"
1"	1 13/16"	3" SQ x3/8"
1 1/4"	2 1/16"	3" SQ x 1/2"

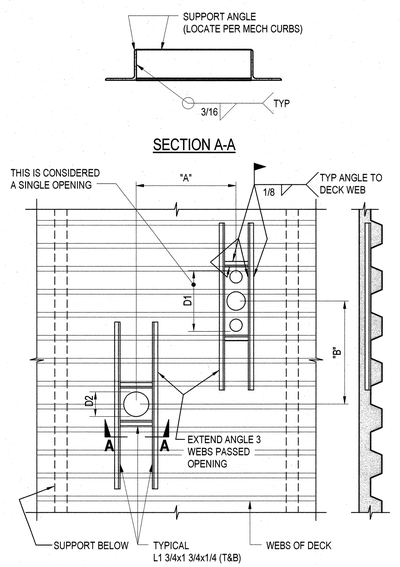
NON-FRAME BASE PL WASHER DETAIL 9 — 3" = 1'-0"



TYPE A

STEL-WCOL-0001 (REV-1)(REV-2)

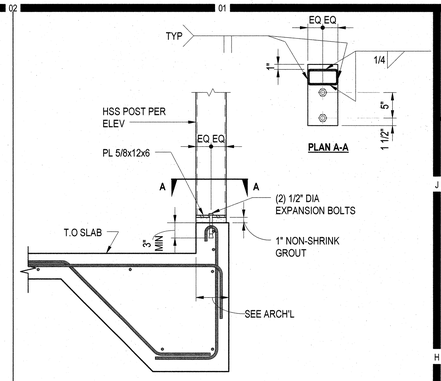
TYPICAL NON-FRAME COLUMN BASE PLATE DETAILS 8 — 1" = 1'-0"



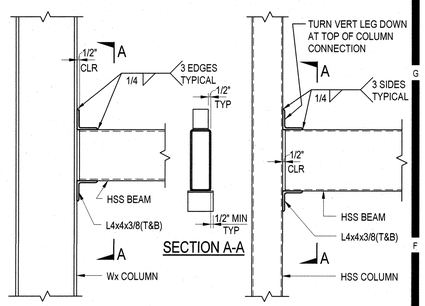
NOTES:
1. DO NOT CUT MORE THAN 2 ADJACENT WEBS.
2. HOLES LESS THAN 6" IN DIAMETER AND CUTTING NO MORE THAN 1 WEB NEED NO REINFORCING. OPENINGS NOT TO EXCEED 18".
3. ANGLES SHALL BE PLACED ON TOP OF DECK.
4. IF DIMENSION "A" IS GREATER THAN 4D1, 4D2, OR 32" WHICHEVER IS LARGER, THEN THERE IS NO RESTRICTION ON DIMENSION "B".
5. IF DIMENSION "B" IS GREATER THAN 4D1, 4D2, OR 32" WHICHEVER IS LARGER, THEN THERE IS NO RESTRICTION ON DIMENSION "A".
6. IF DIMENSIONS "A" AND "B" ARE LESS THAN 4D1, 4D2, OR 32" WHICHEVER IS LARGER, THE OPENING GROUP WILL BE CONSIDERED AS A SINGLE HOLE, AND MUST BE REINFORCED AS REQUIRED FOR THE LARGER OPENING.

STEL-DECK-0008

TYPICAL METAL DECK SLEEVE DETAIL 7 — 1" = 1'-0"



TYPICAL HSS POST BASE PLATE DETAIL 4 — 1" = 1'-0"



HSS BEAM TO W COLUMN — HSS BEAM TO HSS COLUMN

STEL-HBEM-0001

TYPICAL HSS BEAM TO COLUMN CONNECTIONS 3 — 1" = 1'-0"

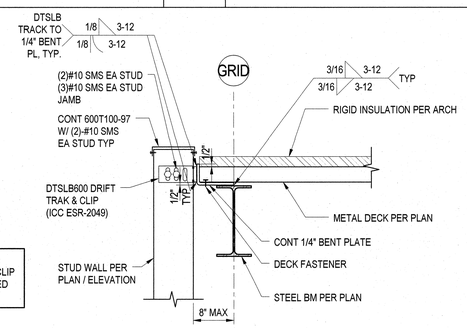
METAL DECK CONSTRUCTION SCHEDULE

MARK	METAL DECKING TYPE	METAL DECKING GAUGE	TOTAL SLAB "t"	SLAB DESCRIPTION	METAL DECKING WELDING: PERPENDICULAR TO SUPPORT	METAL DECKING WELDING: PARALLEL TO SUPPORT	METAL DECKING WELDING: SEAMS	MAXIMUM UNSHORED SPAN (CLEAR SPAN BETWEEN SUPPORTS): SINGLE	MAXIMUM UNSHORED SPAN (CLEAR SPAN BETWEEN SUPPORTS): DOUBLE	MAXIMUM UNSHORED SPAN (CLEAR SPAN BETWEEN SUPPORTS): TRIPLE	HOURLY FIRE RATING	REMARKS
D1	VERCO PLN 3	20	-	RIGID INSULATION OVER METAL DECK SAD	(5) PNEUTEK PER 36" SHEET SEE NOTE 2 & 3	PNEUTEK @ 12" OC SEE NOTE 2 & 3	VSC2 @ 18" OC	12'-0"	13'-0"	13'-0"	-	-

D1

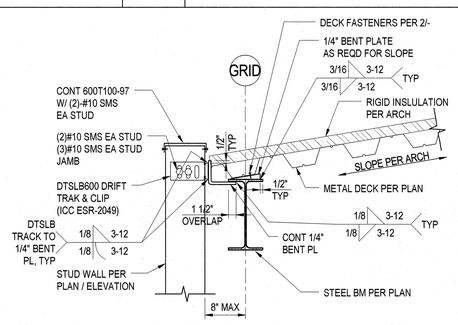
NOTES:
1. PROVIDE VERCO METAL DECKING AND ACCESSORIES IN CONFORMANCE WITH EVALUATION REPORT IAPMO ES-0217
2. PNEUTEK K96 FOR STEEL BEAM FLANGE THICKNESS (O.281"-UP) PER IAPMO ES-0217.
3. PNEUTEK X64 FOR STEEL BEAM FLANGE THICKNESS (0.187" - 0.312") PER IAPMO ES-0217.

TYPICAL METAL DECK CONSTRUCTION SCHEDULE 2 — 1" = 1'-0"

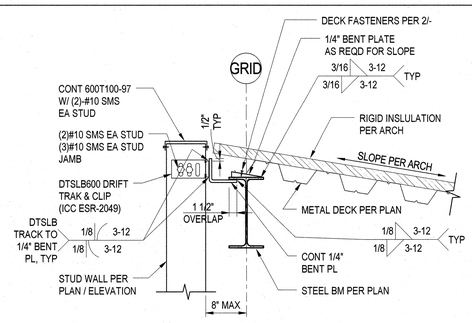


NOTE:
ALL SCREWS AT DRIFT TRAK/CLIP ASSEMBLY TO BE SHOULDERED SCREWS PER IAPMO ES-0217

A WHERE MTL DECK IS PERPENDICULAR TO EXT STEEL BM

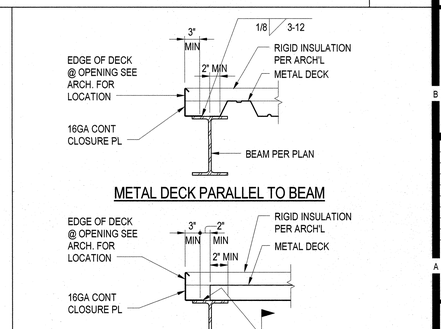


B WHERE MTL DECK IS PARALLEL DOWNHILL TO EXT STEEL BM



C WHERE MTL DECK IS PARALLEL DOWNHILL TO EXT STEEL BM

DECK DETAILS 5 — 1" = 1'-0"



METAL DECK PARALLEL TO BEAM

METAL DECK PERPENDICULAR TO BEAM

TYPICAL BARE METAL ROOF DECK EDGE AT INTERIOR OPENING 1 — 1" = 1'-0"

HMC Architects
3546 Concours Street / Ontario, CA 91764
T 909 989 9979 / www.hmcarchitects.com
SM

saiful•bouquet structural engineers
2020 Camino Del Rio North, Ste 305, San Diego, CA 92108
www.saifulbouquet.com
(619) 630-9199
Project #15621

Key Plan

Consultant Seal

STEL-DECK-0000 (REV-1)

Agency Approval FILE NO. 37-C1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 04-115420
ACS — FLS — SSS
DATE OCT 18 2017

Project Title

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NEW STORAGE BUILDINGS
1140 W. MISSION RD.
SAN MARCOS, CA 92069
(760) 744-1150

No.	Description	Date

Drawing Title:
TYPICAL STEEL DETAILS

Architect's Seal

Designed: JC	Project No. 3443001-302
Drawn: JPR	Scale: As indicated
QA/QC RR	Drawing No. S1.4
Date: 10/18/2017	

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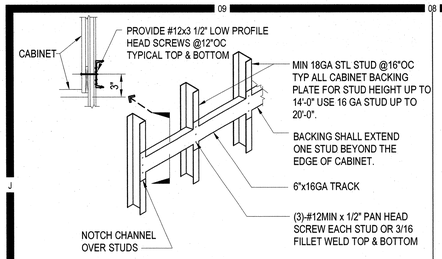
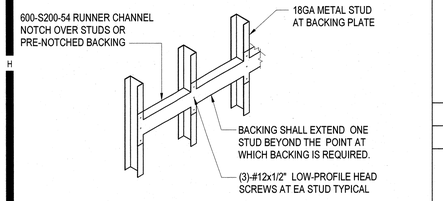
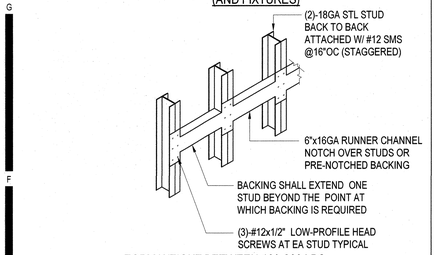


BACKING AT CABINET

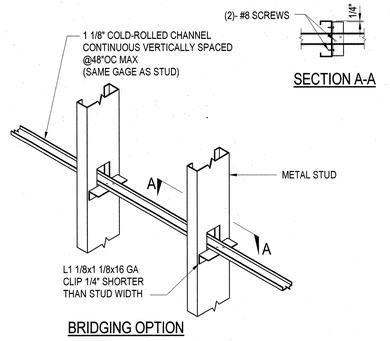


EQUIPMENT WEIGHT UNDER 100 LBS
(AND FIXTURES)

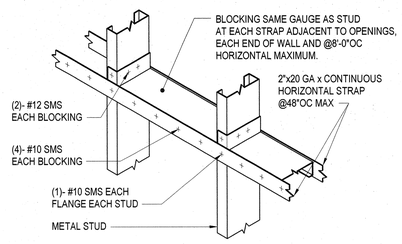


EQPM WEIGHT BETWEEN 100-200 LBS
(AND FIXTURES)

BACKING FOR WALL SUPPORTED ITEMS | 19 | 1" = 1'-0"



BRIDGING OPTION

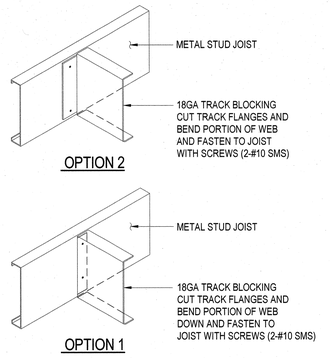


STRAP OPTION

NOTE:
REQUIRED WHERE RIGID WALL FINISH DOES NOT CONTINUE FULL HEIGHT OF EITHER OR BOTH SIDES OF STUDS

METL-GENL-0002

TYPICAL LATERAL BRIDGING AT METAL STUDS | 12 | 1" = 1'-0"

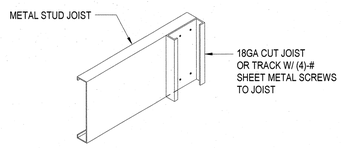


OPTION 2

OPTION 1

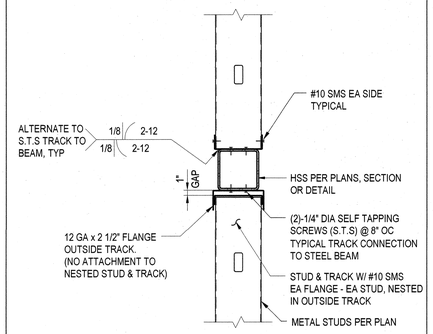
METL-JOST-0002

TYPICAL JOIST BLOCKING DETAILS | 8 | 1 1/2" = 1'-0"

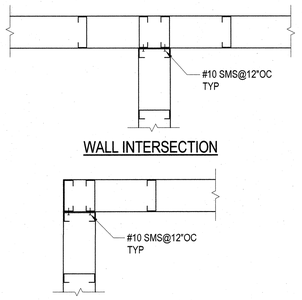


METL-JOST-0003

TYPICAL JOIST WEB STIFFERNER DETAIL | 4 | 1 1/2" = 1'-0"

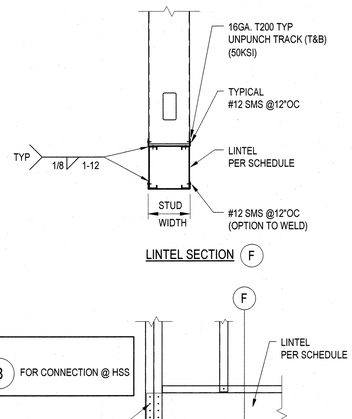


TYPICAL HSS IN EXTERIOR STUD WALL | 15 | 1" = 1'-0"



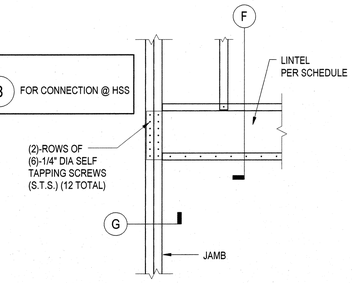
METL-GENL-0001

TYPICAL METAL STUD WALL AT INTERSECTION DETAILS | 11 | 1" = 1'-0"



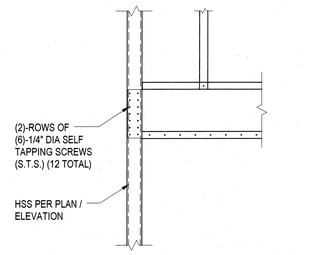
LINTEL SECTION (F)

NOTE:
SEE (B) FOR CONNECTION @ HSS

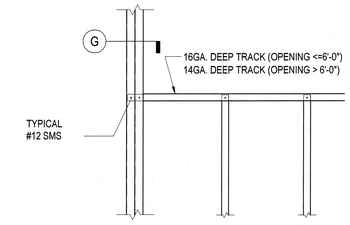


CONNECTION AT STUD JAMB (E)

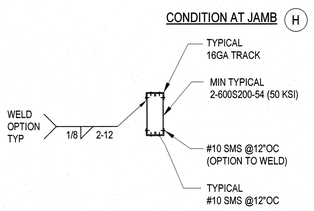
NOTE:
SEE (E) FOR CONNECTION @ STUD JAMB.



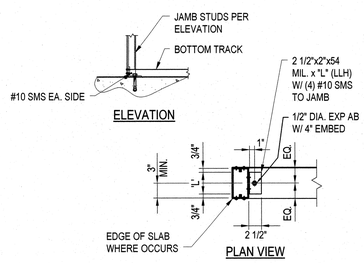
CONNECTION AT HSS JAMB (B)



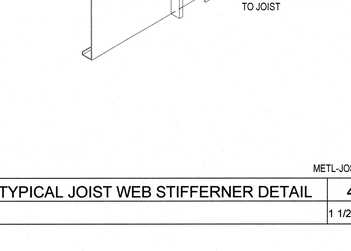
CONDITION AT JAMB (H)



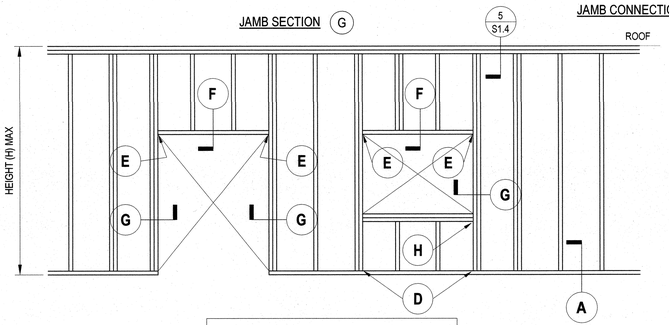
JAMB SECTION (G)



JAMB CONNECTION AT BASE (D)



CONDITION AT SLAB ON GRADE (A)



EXTERIOR WALL ELEVATION

LINTEL SCHEDULE

MARK	MAX LENGTH	BEAM SIZE	#12 SCREWS EACH SIDE OF BEAM TO JAMB	REMARK
HDR	9'-0"	(2) 600 S162-54	6 SCREWS (12 TOTAL)	JAMB PER (G) WHERE STUD JAMB OCCURS

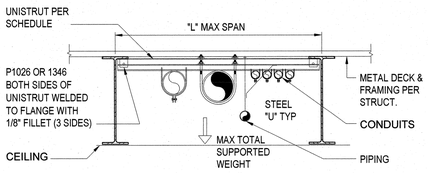
NOTE: ALL LINTELS TO BE UN-PUNCHED STUDS.

TRAPEZE SUPPORT SCHEDULE

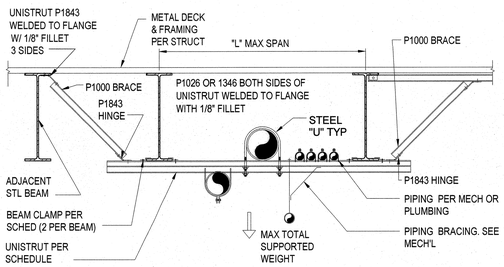
TRAPEZE SUPPORT MEMBER		MAX SPAN "L"	MAX TOTAL SUPPORTED WEIGHT (LBS)	BEAM CLAMP
UNISTRUT P-1000 $1\frac{5}{8}$ X $1\frac{5}{8}$ X12 GA.	C	6'-6"	250	P13795
		8'-0"	190	
		10'-6"	160	
UNISTRUT P-5500 $1\frac{5}{8}$ X $2\frac{7}{16}$ X12 GA.	C	6'-6"	700	P2786
		8'-0"	650	
		10'-6"	560	
UNISTRUT P-1001T $1\frac{5}{8}$ X $3\frac{1}{4}$ X12 GA.	H	6'-6"	1000	P2786
		8'-0"	850	
		10'-6"	220	

NOTES

1. THE MAXIMUM TOTAL SUPPORTED WEIGHT SCHEDULED IS BASED ON A UNIFORM DISTRIBUTION OF WEIGHT ACROSS THE TRAPEZE WIDTH. REDUCE THE MAXIMUM ALLOWABLE TOTAL SUPPORTED WEIGHT BY 50% WHEN THE WEIGHT CENTROID IS OFFSET GREATER THAN "L/8" FROM THE MIDSPAN OF THE TRAPEZE.
2. TRAPEZE HANGER SPACING SHALL NOT EXCEED THE SPACINGS FOR THE MAXIMUM SUPPORTED LOAD & ALLOWABLE SPAN OF THE PIPES.
3. PIPING/CONDUIT BRACING FORCE SHALL NOT EXCEED TWICE THE MAXIMUM ALLOWED SUPPORT LOAD IN SCHEDULE.



WHERE CEILING IS DIRECTLY UNDER BOTTOM FLANGE OF BEAMS



WHERE SPACE IS AVAILABLE BETWEEN BOTTOM FLANGE AND CEILING

DUCT/ PIPE/ CONDUIT HANGER ATTACHMENT AT BARE METAL DECK | 13 | 1" = 1'-0"

TYPICAL METAL STUD EXTERIOR WALL CONSTRUCTION DETAIL | 1 | 1" = 1'-0"

HMC Architects
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(SM)

saiful • bouquet structural engineers
2020 Camino Del Rio North, Ste 305,
San Diego, CA 92108
www.saifulbouquet.com
(619) 630-9199
Project #15521

Key Plan

Consultant Seal

REGISTERED PROFESSIONAL ENGINEER — RAJAB SAIFUL — No. C 58302 — EXP. 12/31/18 — STRUCTURAL — STATE OF CALIFORNIA

Agency Approval FILE NO. 37-C1

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DIV. OF THE STATE ARCHITECT
APPL. 04-115420
ACS — FLS — SSS 152
DATE OCT 18 2017

Project Title

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Learning for Success

PALOMAR COLLEGE
NEW STORAGE BUILDINGS
1140 W. MISSION RD.
SAN MARCOS, CA 92069
(760) 744-1150

No.	Description	Date

Drawing Title:
TYPICAL EXTERIOR METAL STUD DETAILS

Architect's Seal

LICENSED ARCHITECT — KENNETH H. GALYEN — NO. C-19082 — REN. 11-30-18 — STATE OF CALIFORNIA

Designed:	JC	Project No.	3443001-302
Drawn:	JPR	Scale:	As indicated
QAQC	RR	Drawing No.	S1.5
Date:	10/18/2017		

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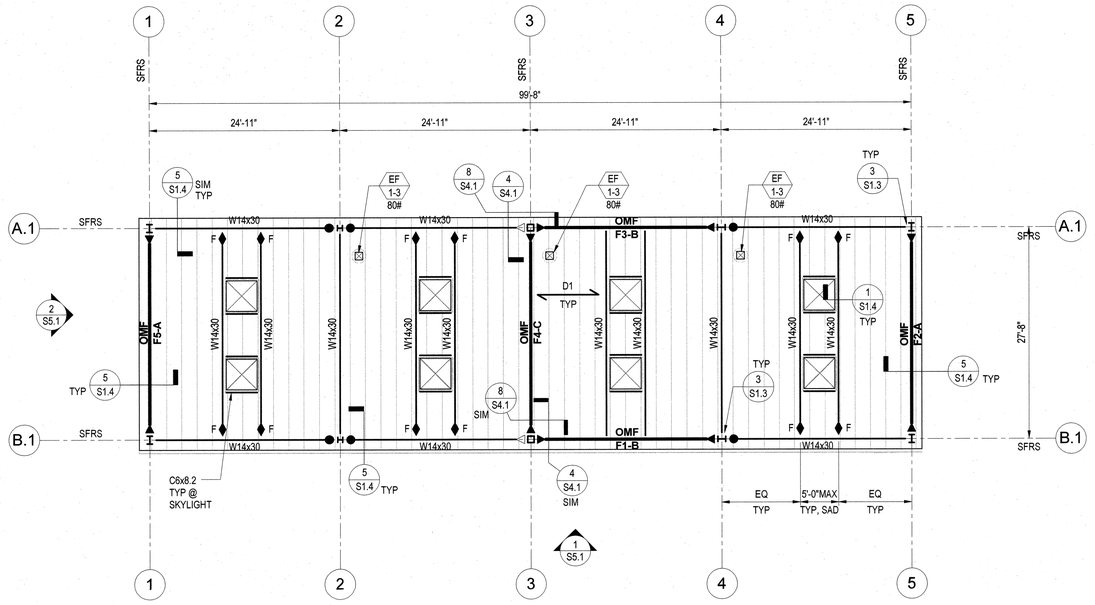
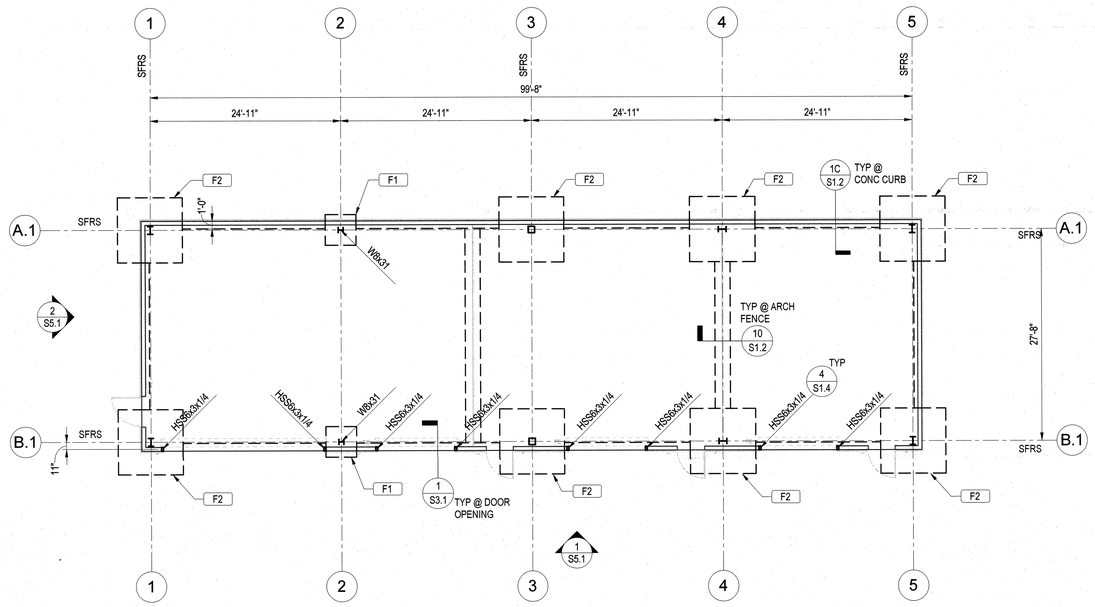


ROOF FRAMING PLAN NOTES

1. FOR GENERAL NOTES AND TYPICAL DETAILS SEE (S0.X & S1.X) SERIES SHEETS.
2. VERIFY ALL DIMENSIONS PRIOR TO START OF WORK. SEE ARCHITECTURAL DRAWINGS FOR REMAINDER OF DIMENSIONS NOT SHOWN ON THIS PLAN.
3. SEE ARCHITECTURAL DRAWINGS FOR CONCRETE SLAB ELEVATIONS, DEPRESSIONS, SLOPES, OPENINGS, CURBS, DRAINS, TRENCHES, SLAB EDGE LOCATIONS, ETC., AND FOR WALL OVERALL DIMENSIONS, LOCATIONS OF OPENINGS, ETC., NOT INDICATED ON STRUCTURAL DRAWINGS.
4. TOP OF STRUCTURAL STEEL ELEVATION (TOS) SHALL BE FROM TOP OF SLAB DATUM ELEVATION MINUS TOTAL SLAB THICKNESS (T") PER "TYPICAL METAL DECK CONSTRUCTION SCHEDULE", UNLESS NOTED OTHERWISE.
5. D1 — INDICATES DIRECTION OF METAL DECKING AND SLAB CONSTRUCTION, SEE SCHEDULE 2/S1.4.
6. INDICATES NEW STEEL MOMENT FRAME IDENTIFICATION NUMBER
   INDICATES NEW STEEL MOMENT FRAME TYPE PER SCHEDULE 5 S3.1
   F1-A — INDICATES NEW STEEL MOMENT FRAME, SEE ELEVATION ON 5 S3.1
7. INDICATES NEW STEEL MOMENT FRAME IDENTIFICATION NUMBER
   F1-A/B — INDICATES NEW STEEL MOMENT FRAME W/ HSS & WF COLUMN . REFER TO PLAN & ELEVATION ON 5 S3.1
8. F — INDICATES STIFFENER PER 1E S1.3
9. INDICATES DRAG CONNECTION PER 11 S1.3
10. INDICATES DRAG CONNECTION PER 8 S4.1
11. INDICATES MOMENT CONNECTION PER 5 S4.1 AT WIDE FLANGE COL
12. INDICATES MOMENT CONNECTION PER 8 S4.1 4 S4.1 AT HSS COL
13. XX / X / XXX# — INDICATES MECHANICAL UNIT TYPE - SEE "M" SERIES DRAWINGS SEE 7/S1.4 FOR FRAMING @ OPENINGS. REFER TO "M" SERIES ANCHORAGE FOR CURB UNIT ANCHORAGE.
    INDICATES MECHANICAL UNIT NUMBER, SEE MEP DRAWINGS.
    INDICATES MAXIMUM DESIGN WEIGHT

ROOF FRAMING PLAN - BUILDING 1 | 2 | 1/8" = 1'-0"



FOUNDATION PLAN NOTES

1. FOR GENERAL NOTES AND TYPICAL DETAILS SEE (S0.X & S1.X) SERIES SHEETS.
2. VERIFY ALL DIMENSIONS PRIOR TO START OF WORK. SEE ARCHITECTURAL DRAWINGS FOR REMAINDER OF DIMENSIONS NOT SHOWN ON THIS PLAN.
3. SEE ARCHITECTURAL DRAWINGS FOR CONCRETE SLAB ELEVATIONS, DEPRESSIONS, SLOPES, OPENINGS, CURBS, DRAINS, TRENCHES, SLAB EDGE LOCATIONS, ETC., AND FOR WALL OVERALL DIMENSIONS, LOCATIONS OF OPENINGS, ETC., NOT INDICATED ON STRUCTURAL DRAWINGS.
4. TYPICAL SLAB ON GRADE SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:
   A. 6" CONCRETE SLAB W/ #4 @ 16" OC EACH WAY AT CENTER OF SLAB OVER
   B. 10 MIL VAPOR BARRIER OVER
   C. 2" SAND LAYER
   D. 4" OF MEDIUM TO COARSE CLEAN SAND OR PEA GRAVEL OVER
   E. 12" SCARIFIED SOIL / BEDROCK, MOISTURE CONDITIONED & RE-COMPACTED PER GEOTECHNICAL REPORT
   REFER TO SLAB-ON-GRADE DETAILS ON 1/S1.2. MAXIMUM SPACING OF CONTROL JOINTS OF 1B/S1.2 TO BE 12'-0".
5. F1 — INDICATES FOOTING MARK SEE SCHED 2/S3.1. TOP OF FOOTING TO BE -1'-6" MIN FROM LOWEST ADJACENT TOP OF SLAB OR FINISHED GRADE ELEVATION . REFER TO CIVIL DRAWINGS & EXCAVATION PROFILE DETAIL 8 S3.1
6. ALL EXTERIOR METAL WALL STUD FRAMING TO BE 600S162-54 @16"OC (Fy = 50 KSI) UNO. PROVIDE BRIDGING WHERE REQUIRED PER NOTE ON 12 S1.5
7. TOP OF SLAB ELEVATION DATUM PER ARCHITECT, UNLESS NOTED OTHERWISE THUS ⌀ ±0'-0" FROM TOP OF SLAB / CIVIL ELEVATION DATUM.
8. PROVIDE WEAKENED PLAN / CONSTRUCTIONJOINT / CONTROL JOINT, PER DETAIL 1/S1.2. CONTRACTOR TO SUBMIT LAYOUT FOR ARCH/ENG REVIEW AND APPROVAL PRIOR TO PLACEMENT.
9. W8x31 — INDICATES GRAVITY STEEL COLUMN. SEE 8 S1.4 FOR TYPICAL GRAVITY COLUMN BASEPLATE

FOUNDATION PLAN - BUILDING 1 | 1 | 1/8" = 1'-0"

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www.saifulbouquet.com
(619) 630-9199
Project #15621

Key Plan

Consultant Seal

Agency Approval FILE NO. 37-C1
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APPL. 04-115420
ACS ___ FLS ___ SSS
DATE OCT 18 2017

Project Title

PALOMAR COLLEGE
NEW STORAGE BUILDINGS
1140 W. MISSION RD.
SAN MARCOS, CA 92069
(760) 744-1150

No.	Description	Date

Drawing Title:
STORAGE BUILDING 1 - FOUNDATION AND ROOF FRAMING PLAN

Architect's Seal

Designed:	JC	Project No.	3443001-302
Drawn:	JPR	Scale:	As indicated
QAQC	RR	Drawing No.	S2.1
Date:	10/18/2017		

DSA APPROVAL

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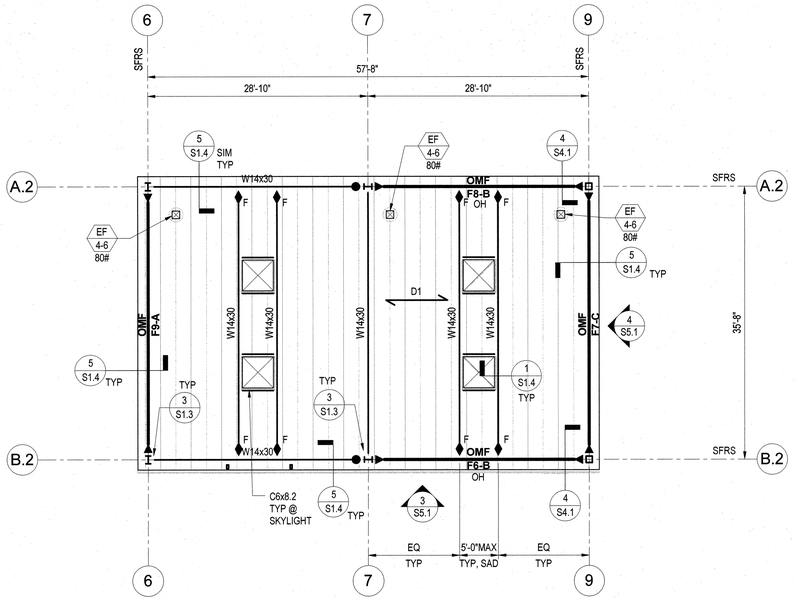
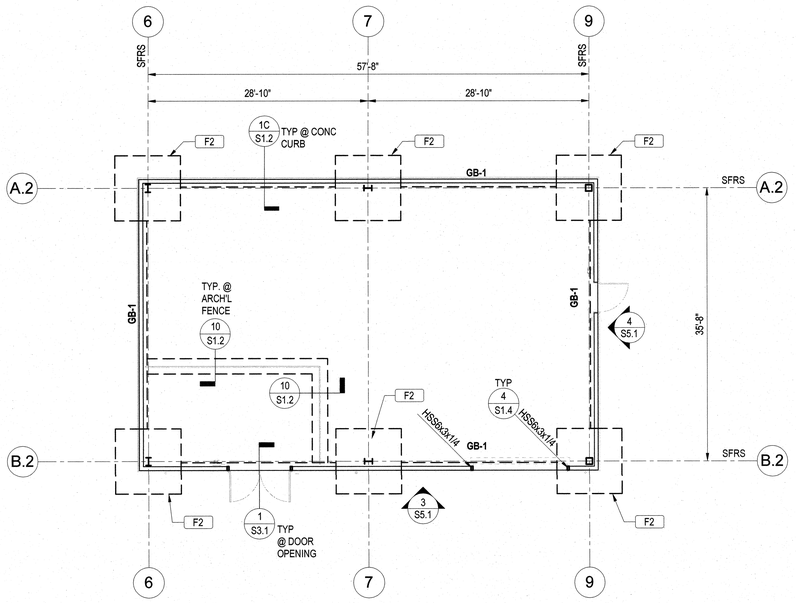


ROOF FRAMING PLAN NOTES

1. FOR GENERAL NOTES AND TYPICAL DETAILS SEE (S0.X & S1.X) SERIES SHEETS.
2. VERIFY ALL DIMENSIONS PRIOR TO START OF WORK. SEE ARCHITECTURAL DRAWINGS FOR REMAINDER OF DIMENSIONS NOT SHOWN ON THIS PLAN.
3. SEE ARCHITECTURAL DRAWINGS FOR CONCRETE SLAB ELEVATIONS, DEPRESSIONS, SLOPES, OPENINGS, CURBS, DRAINS, TRENCHES, SLAB EDGE LOCATIONS, ETC., AND FOR WALL OVERALL DIMENSIONS, LOCATIONS OF OPENINGS, ETC., NOT INDICATED ON STRUCTURAL DRAWINGS.
4. TOP OF STRUCTURAL STEEL ELEVATION (TOS) SHALL BE FROM TOP OF SLAB DATUM ELEVATION MINUS TOTAL SLAB THICKNESS ("t") PER "TYPICAL METAL DECK CONSTRUCTION SCHEDULE", UNLESS NOTED OTHERWISE.
5. D1 — INDICATES DIRECTION OF METAL DECKING AND SLAB CONSTRUCTION, SEE SCHEDULE 2/S1.4.
6. INDICATES NEW STEEL MOMENT FRAME IDENTIFICATION NUMBER
   INDICATES NEW STEEL MOMENT FRAME TYPE PER SCHEDULE (5 S3.1)
   F1-A
   INDICATES NEW STEEL MOMENT FRAME, SEE ELEVATION ON (5 S3.1)
7. INDICATES NEW STEEL MOMENT FRAME IDENTIFICATION NUMBER
   INDICATES NEW STEEL MOMENT FRAME W/ HSS & WF COLUMN . REFER TO PLAN & ELEVATION ON (5 S3.1)
   F1-A/B
8. F — INDICATES STIFFENER PER (1E S1.3)
9. INDICATES DRAG CONNECTION PER (11 S1.3)
10. INDICATES DRAG CONNECTION PER (8 S4.1)
11. INDICATES MOMENT CONNECTION PER (5 S4.1) AT WIDE FLANGE COL
12. INDICATES MOMENT CONNECTION PER (8 S4.1) (4 S4.1) AT HSS COL
13. XX / X / XXX# — INDICATES MECHANICAL UNIT TYPE - SEE "M" SERIES DRAWINGS SEE 7/S1.4 FOR FRAMING @ OPENINGS. REFER TO "M" SERIES ANCHORAGE FOR CURB UNIT ANCHORAGE.
    INDICATES MECHANICAL UNIT NUMBER, SEE MEP DRAWINGS.
    INDICATES MAXIMUM DESIGN WEIGHT

ROOF FRAMING PLAN - BUILDING 2 | 2 | 1/8" = 1'-0"



FOUNDATION PLAN NOTES

1. FOR GENERAL NOTES AND TYPICAL DETAILS SEE (S0.X & S1.X) SERIES SHEETS.
2. VERIFY ALL DIMENSIONS PRIOR TO START OF WORK. SEE ARCHITECTURAL DRAWINGS FOR REMAINDER OF DIMENSIONS NOT SHOWN ON THIS PLAN.
3. SEE ARCHITECTURAL DRAWINGS FOR CONCRETE SLAB ELEVATIONS, DEPRESSIONS, SLOPES, OPENINGS, CURBS, DRAINS, TRENCHES, SLAB EDGE LOCATIONS, ETC., AND FOR WALL OVERALL DIMENSIONS, LOCATIONS OF OPENINGS, ETC., NOT INDICATED ON STRUCTURAL DRAWINGS.
4. TYPICAL SLAB ON GRADE SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:
   A. 6" CONCRETE SLAB W/ #4 @ 16" OC EACH WAY AT CENTER OF SLAB OVER
   B. 10 MIL VAPOR BARRIER OVER
   C. 2" SAND LAYER
   D. 4" OF MEDIUM TO COARSE CLEAN SAND OR PEA GRAVEL OVER
   E. 12" SCARIFIED SOIL / BEDROCK, MOISTURE CONDITIONED & RE-COMPACTED PER GEOTECHNICAL REPORT
   REFER TO SLAB-ON-GRADE DETAILS ON 1/S1.2. MAXIMUM SPACING OF CONTROL JOINTS OF 1B/S1.2 TO BE 12'-0".
5. F1 — INDICATES FOOTING MARK SEE SCHED 2/S3.1. TOP OF FOOTING TO BE -1'-6" MIN FROM LOWEST ADJACENT TOP OF SLAB OR FINISHED GRADE ELEVATION . REFER TO CIVIL DRAWINGS & EXCAVATION PROFILE DETAIL (8 S3.1)
6. ALL EXTERIOR METAL WALL STUD FRAMING TO BE 600S162-54 @16"OC (Fy = 50 KSI) UNO. PROVIDE BRIDGING WHERE REQUIRED PER NOTE ON (12 S1.5)
7. TOP OF SLAB ELEVATION DATUM PER ARCHITECT, UNLESS NOTED OTHERWISE THUS ±0'-0" FROM TOP OF SLAB / CIVIL ELEVATION DATUM.
8. PROVIDE WEAKENED PLAN / CONSTRUCTION/JOINT / CONTROL JOINT, PER DETAIL 1/S1.2. CONTRACTOR TO SUBMIT LAYOUT FOR ARCH/ENG REVIEW AND APPROVAL PRIOR TO PLACEMENT.
9. W8x31 — INDICATES GRAVITY STEEL COLUMN. SEE (8 S1.4) FOR TYPICAL GRAVITY COLUMN BASEPLATE

FOUNDATION PLAN - BUILDING 2 | 1 | 1/8" = 1'-0"

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(619) 630-9199
Project #15521

Key Plan

Consultant Seal: REGISTERED PROFESSIONAL ENGINEER — SAIFUL BOUQUET — No. S6362 — RE EXP. 12/31/18 — STRUCTURAL — STATE OF CALIFORNIA

Agency Approval — FILE NO. 37-C1
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APPL. 04-115420
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DATE OCT 18 2017

Project Title

PALOMAR COLLEGE
NEW STORAGE BUILDINGS
1140 W. MISSION RD.
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(760) 744-1150

No.	Description	Date

Drawing Title:
STORAGE BUILDING 2 - FOUNDATION AND ROOF FRAMING PLAN

Architect's Seal: LICENSED ARCHITECT — KENNETH H. SALYER — NO. C-19082 — REN. 11-30-19 — STATE OF CALIFORNIA

Designed:	JC	Project No.	3443001-302
Drawn:	JPR	Scale:	As indicated
QA/QC	RR	Drawing No.	S2.2
Date:	10/18/2017		

DSA APPROVAL

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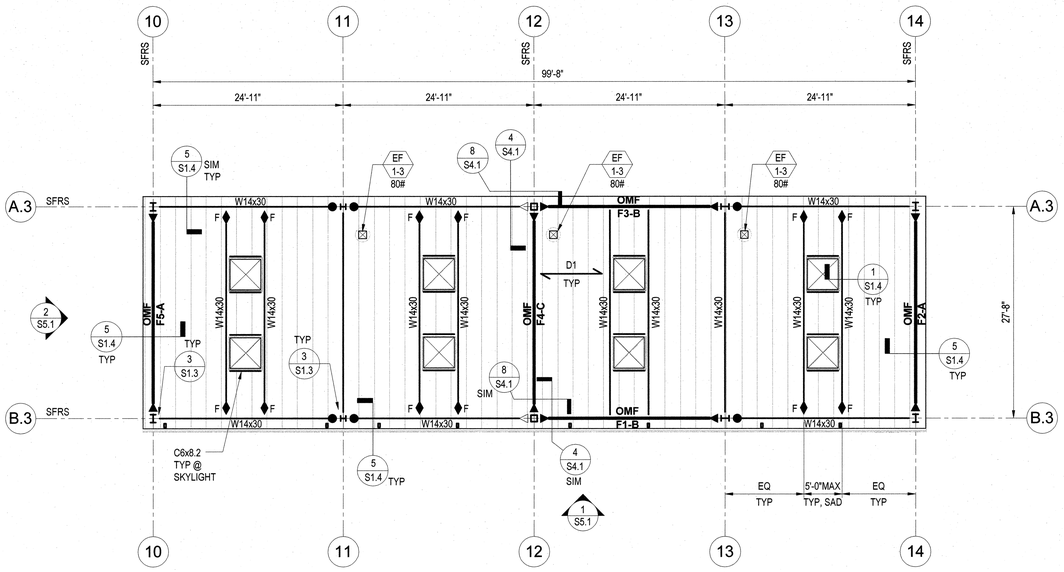
10
11
12
13
14
SFRS
99'-8"
24'-11"
24'-11"
24'-11"
24'-11"
A.3
B.3
5 S1.4 SIM TYP
EF 1-3 80#
8 S4.1
4 S4.1
OMF F5-A
OMF F4-C
OMF F3-B
OMF F2-A
OMF F1-B
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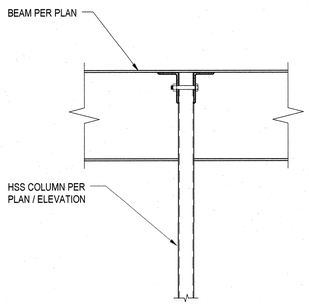
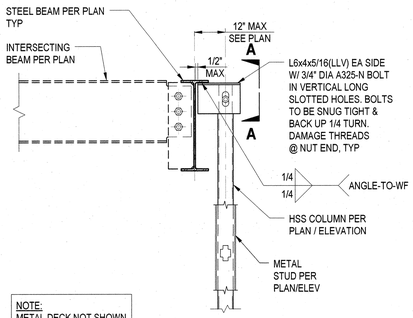
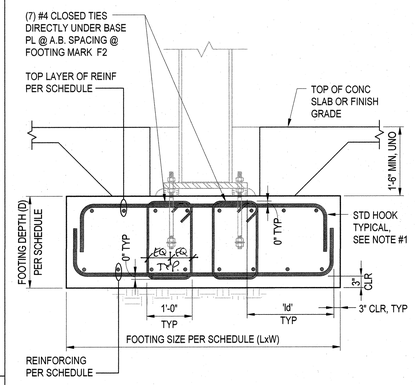


SECTION A-A

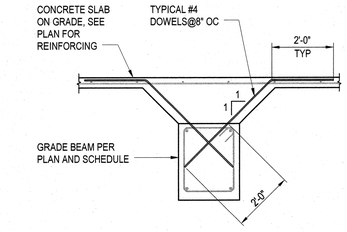


NOTE:
METAL DECK NOT SHOWN FOR CLARITY

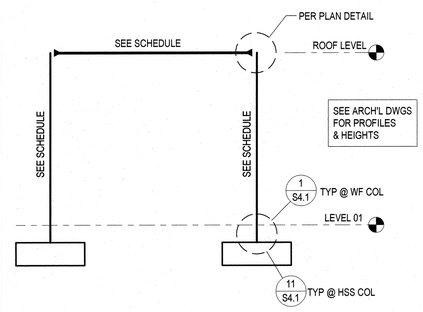
BEAM AND POST OFFSET | 7 | 1" = 1'-0"



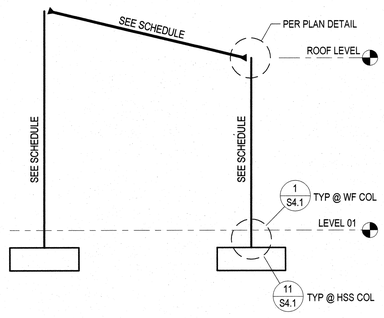
TYPICAL DETAIL



TYPICAL SLAB ON GRADE TO GRADE BEAM CONNECTION | 9 | 3/4" = 1'-0"



HORIZONTAL ROOF BEAM CONDITION



SLOPED ROOF BEAM CONDITION

SPREAD FOOTING SCHEDULE

MARK	DEPTH (D)	SIZE (LxW)	REINFORCING				REMARKS
			BOTTOM		TOP		
			SHORT	LONG	SHORT	LONG	
F1	18"	4'-0"x4'-0"	(4)-#4	(4)-#4	(4)-#4	(4)-#4	
F2	24"	8'-6"x8'-6"	(8)-#7	(8)-#7	(8)-#7	(8)-#7	PROVIDE STIRRUPS PER DETAIL ABOVE

NOTES:
1. "ld"=STRAIGHT DEVELOPMENT LENGTH PER "TYPICAL STRAIGHT AND HOOKED DEVELOPMENT LENGTH SCHEDULE".
2. PROVIDE STANDARD HOOK WHERE A STRAIGHT BAR WITH "ld" CANNOT BE PROVIDED.

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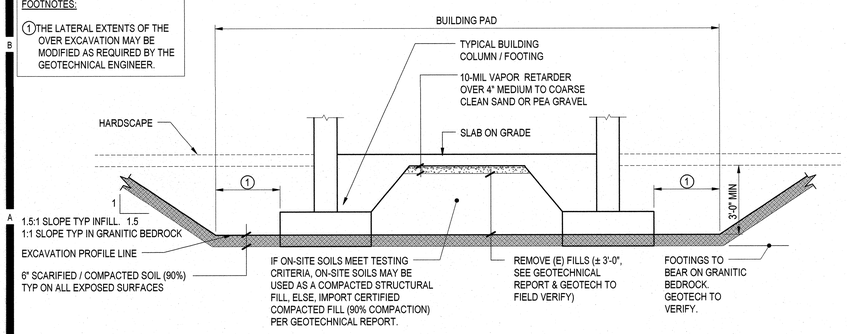
TYPICAL SPREAD FOOTING SCHEDULE AND DETAIL | 2 | 3/4" = 1'-0"

REFER TO GEOTECHNICAL REPORT FOR RECOMMENDATIONS

FOOTNOTES:
(1) THE LATERAL EXTENTS OF THE OVER EXCAVATION MAY BE MODIFIED AS REQUIRED BY THE GEOTECHNICAL ENGINEER.

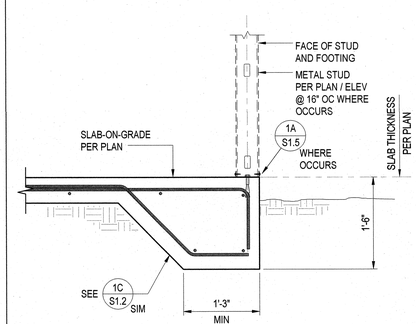


FOOTING EXCAVATION PROFILE | 8 | 3/8" = 1'-0"

MOMENT FRAME MEMBER SCHEDULE

FRAME TYPE	BEAM SIZE	COLUMN SIZE	COVER PLATE THK (A572 GR 50)	BASE PLATE (T x W x L) (A572 GR 50)	ANCHOR BOLTS
A	W14x53	W12x50	1"	PER 1/S4.1	PER 1/S4.1
B	W14x53	HSS10x10x1/2 / W12x50	1"	PER 1/S4.1	PER 1/S4.1
C	W14x53	HSS10x10x1/2	1"	PER 11/S4.1	PER 9/S4.1

TYPICAL MOMENT FRAME ELEVATION | 5 | 3/16" = 1'-0"



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TYPICAL EXTERIOR CONTINUOUS WALL FOOTING @ DOOR OPENING | 1 | 1" = 1'-0"

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San Diego, CA 92108
www.saifulbouquet.com
(619) 630-9199
Project #15621

Key Plan

Consultant Seal
REGISTERED PROFESSIONAL ENGINEER KENNETH N. SAYLOR No. C-19082 REN. 11-30-18 STRUCTURAL STATE OF CALIFORNIA

Agency Approval FILE NO. 37-C1
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APPL. 04-115420
ACS. — FLS. — SSS
DATE OCT 18 2017

Project Title
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(760) 744-1150

No.	Description	Date

Drawing Title:
DETAILS AND SCHEDULES

Architect's Seal
LICENSED ARCHITECT KENNETH N. SAYLOR NO. C-19082 REN. 11-30-18 STATE OF CALIFORNIA

Designed: JC	Project No. 3443001-302		
Drawn: JPR	Scale: As indicated		
QAQC RR	Drawing No. S3.1		
Date: 10/18/2017			

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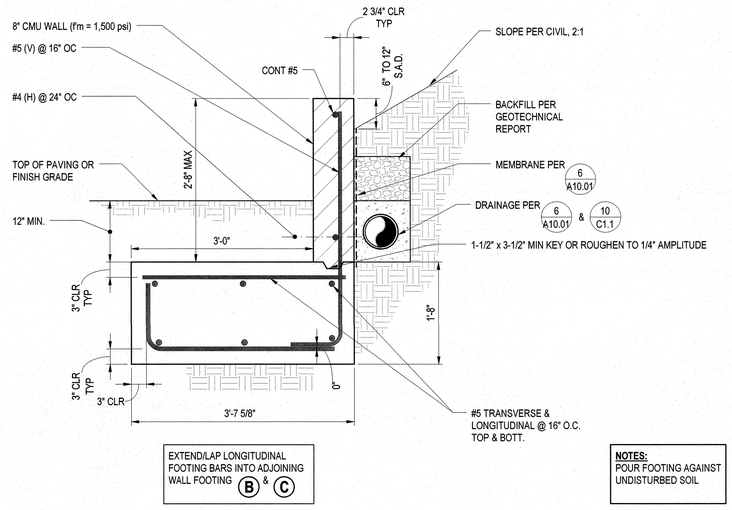
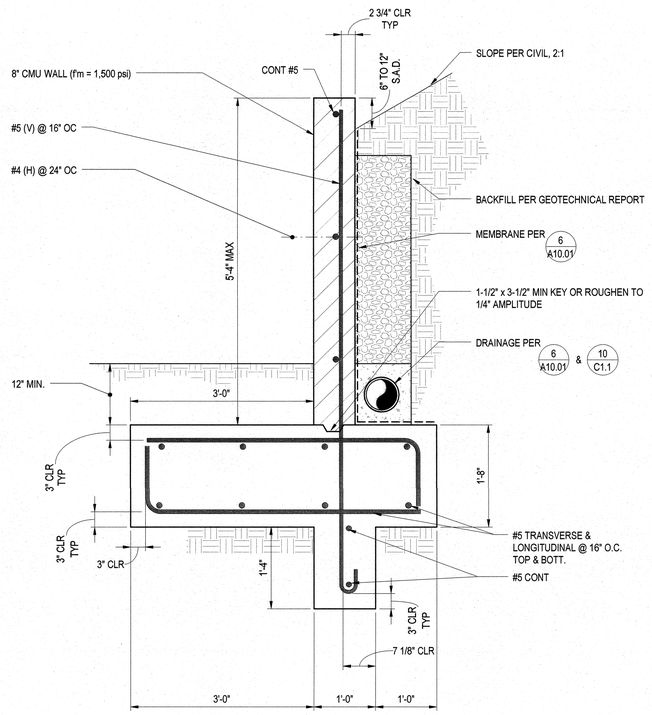
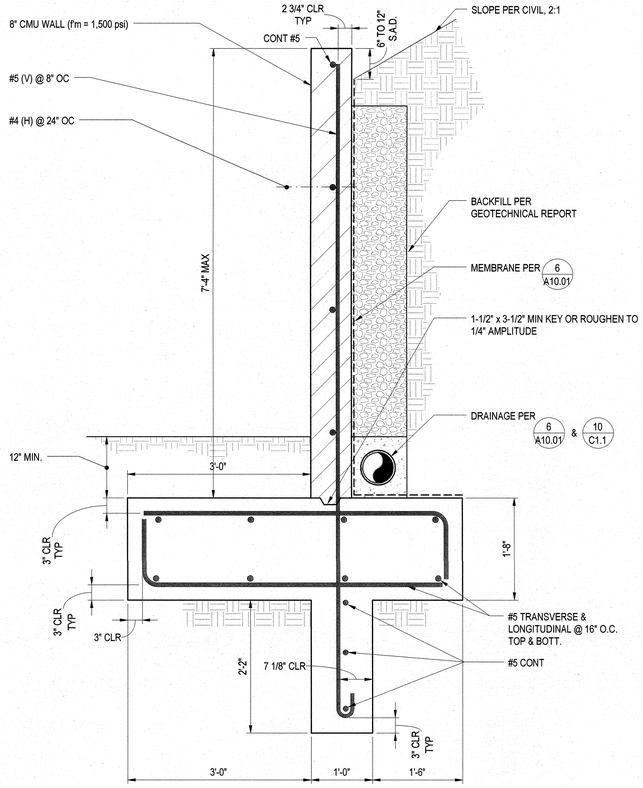


NOTES:
POUR FOOTING AGAINST UNDISTURBED SOIL

Ⓐ **2'-8" MAX CMU RETAINING WALL**



Ⓑ **5'-4" MAX CMU RETAINING WALL**



Ⓒ **7'-4" MAX CMU RETAINING WALL**

CMU RETAINING WALL | 1 | 1" = 1'-0"

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KEYNOTES

NOTES

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www.saifulbouquet.com
(619) 630-9199
Project #15621

Key Plan

Consultant Seal

REGISTERED PROFESSIONAL ENGINEER — SAIFUL A. BOUQUET — No. S5282 — EXP. 12/31/18 — STRUCTURAL — STATE OF CALIFORNIA

Agency Approval FILE NO. 37-C1

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DIV. OF THE STATE ARCHITECT
APPL. 04-115420
ACS ___ FLS ___ SSS 453
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Project Title

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SAN MARCOS, CA 92069
(760) 744-1150

No.	Description	Date

Drawing Title:
DETAILS

Architect's Seal

LICENSED ARCHITECT — KENNETH H. SAKATA — NO. C-19082 — REN. 11-30-19 — STATE OF CALIFORNIA

Designer:	Designer	Project No.	3443001-302
Drawn:	Author	Scale:	1" = 1'-0"
QA/QC	Checker	Drawing No.	S3.2
Date:	10/18/2017		

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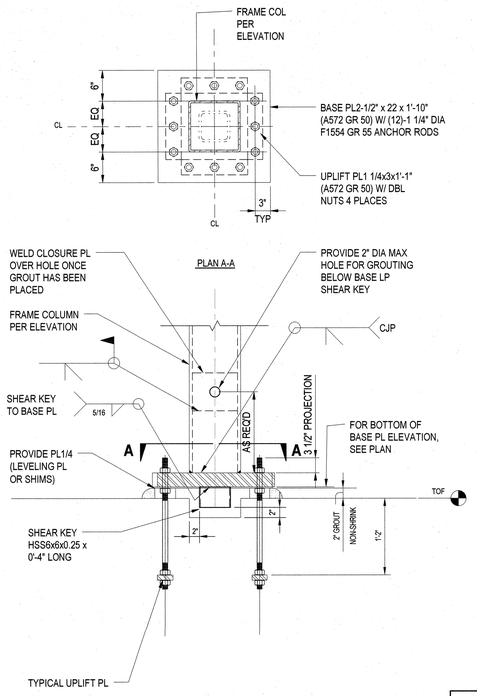
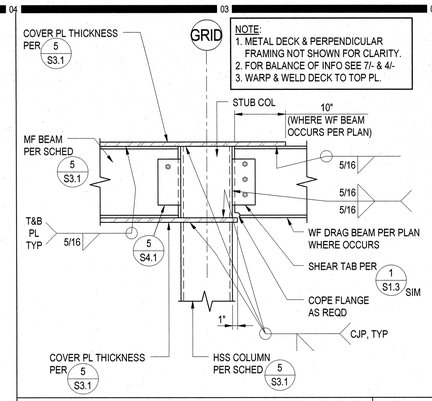
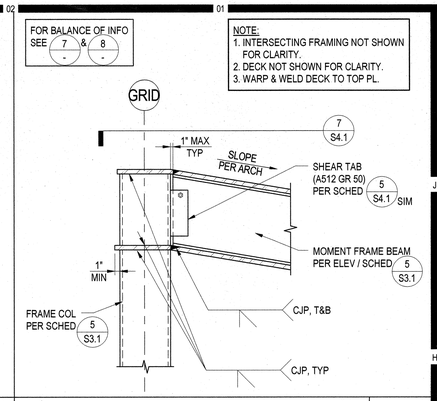


FOR BALANCE OF INFORMATION, SEE DETAIL 1 / S4.1

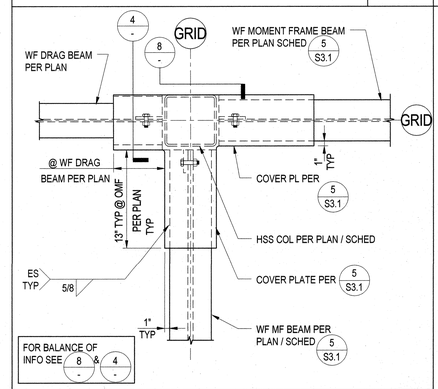
MOMENT FRAME HSS COLUMN BASE PLATE DETAIL — 11 — 1" = 1'-0"



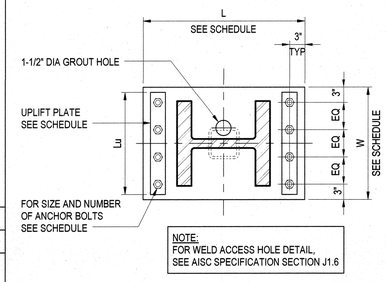
BEAM-TO-COLUMN CONNECTION DETAIL — 8 — 1" = 1'-0"



INCLINED MF CONNECTION DETAIL — 4 — 1" = 1'-0"

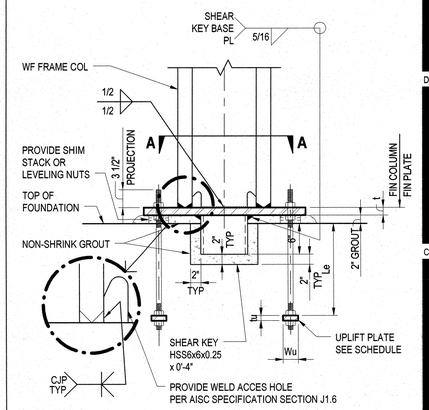


MF / DRAG CONNECTION TO COLUMN — 7 — 1" = 1'-0"



NOTE:
FOR WELD ACCESS HOLE DETAIL, SEE AISC SPECIFICATION SECTION J1.6

PLAN VIEW SECTION A-A



SCHEDULE

COLUMN SIZE	BASE PLATE (A572 GR.50) (L x W x t)	ANCHOR BOLTS (F1554 GR55) No	DIA	L_e	UPLIFT PLATE (A572 GR 50) (Lu x Wu x tu)	REMARKS
W12x	23"x23"x2 1/2"	8	1 1/4"	14"	1'-8"x3"x1 1/4"	

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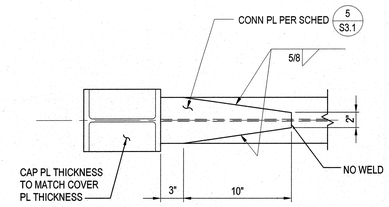
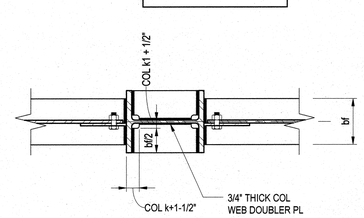
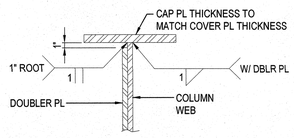


SECTION B-B

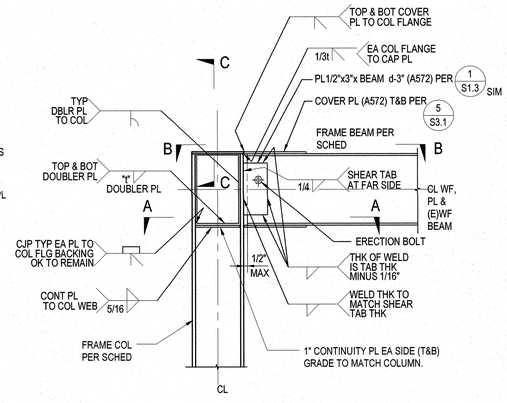
NOTE:
METAL DECK, INTERSECTING BEAM & PERPENDICULAR BEAM NOT SHOWN FOR CLARITY



SECTION A-A



SECTION C-C



WELDING NOTE:

COMPLETE JOINT PENETRATION WELDS FOR BEAM FLANGES, COLUMN FLANGES, SHEAR PLATES AND BEAM WEBS TO COLUMNS SHALL BE DEMAND CRITICAL WELDS.

WELDING FOR ALL DETAILS OF S4.1 — 13 — 1" = 1'-0"

FRAME CONNECTION DETAIL — 5 — 1" = 1'-0"

TYPICAL MOMENT FRAME COLUMN BASE PLATE SCHEDULE AND DETAIL — 1 — 1" = 1'-0"

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(619) 630-9199
Project #15621

Key Plan

Consultant Seal

BRIAN SCOTT HAVERSTOCK, No. S4362, REGISTERED PROFESSIONAL ENGINEER, EXP. 12/31/18, STRUCTURAL, STATE OF CALIFORNIA

Agency Approval FILE NO. 37-C1

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Project Title

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(760) 744-1150

No.	Description	Date

Drawing Title:
MOMENT FRAME DETAILS

Architect's Seal

LICENSED ARCHITECT, KENNETH H. SAFIER, NO. C-19082, REN. 11-30-19, STATE OF CALIFORNIA

Designed:	JC	Project No.	3443001-302
Drawn:	JPR	Scale:	1" = 1'-0"
QAQC	RR	Drawing No.	S4.1
Date:	10/18/2017		

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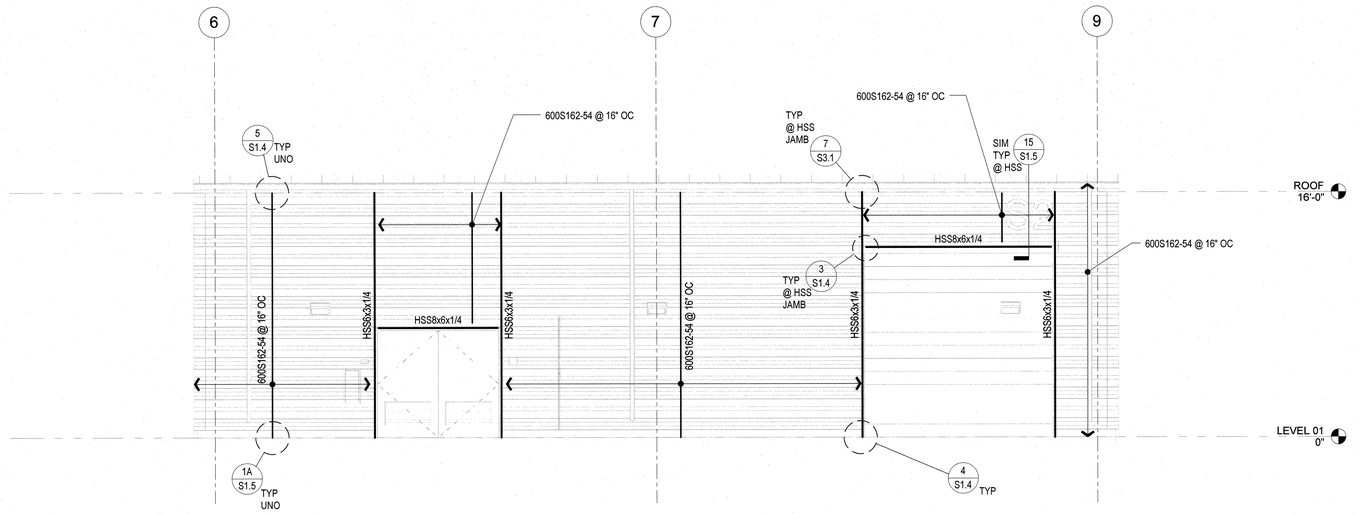
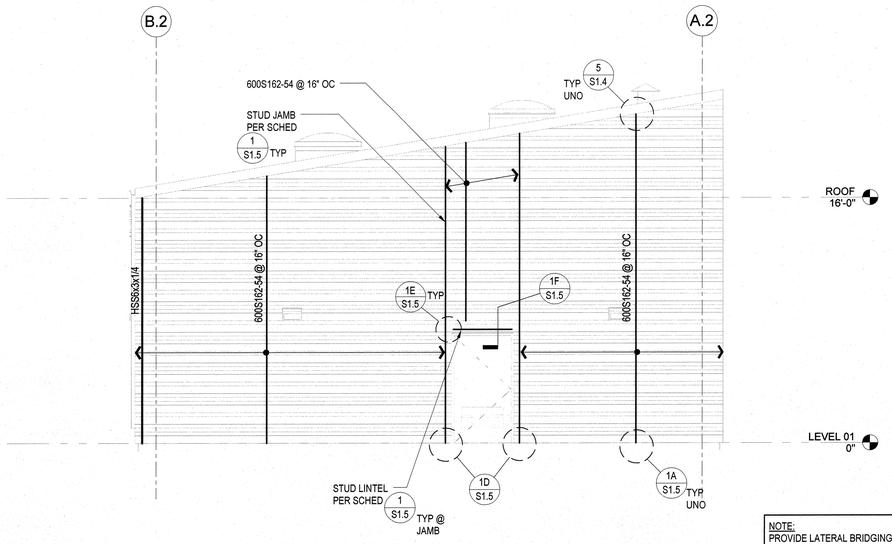


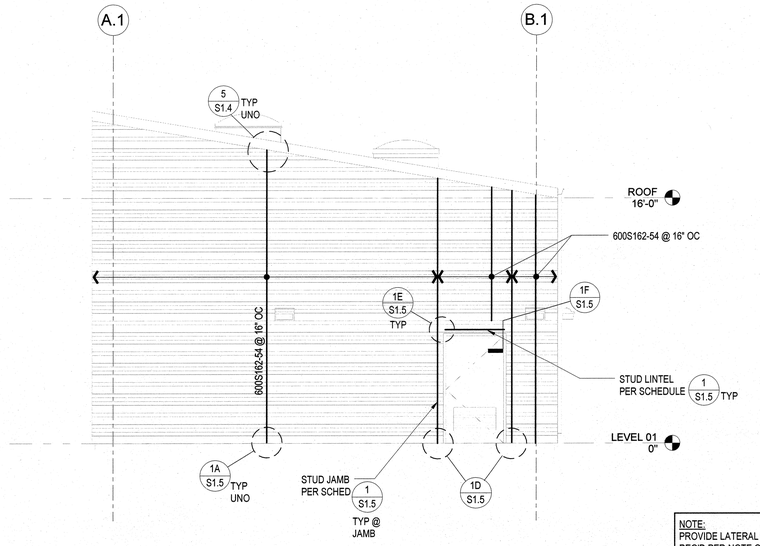
NOTE:
PROVIDE LATERAL BRIDGING WHERE REQ'D PER NOTE ON 12/S1.5

SOUTH EXTERIOR ELEVATION - BUILDING 2 | 3 | 1/4" = 1'-0"



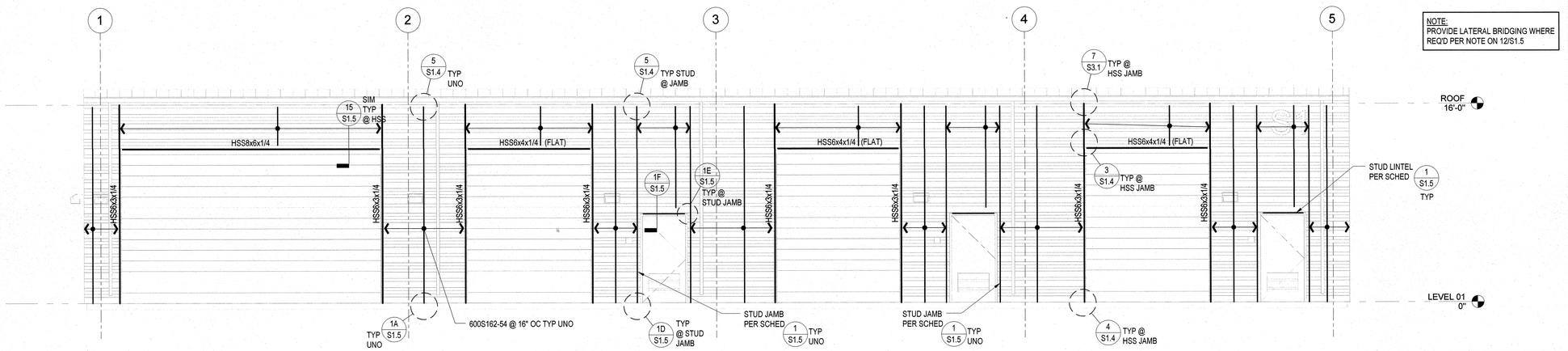
NOTE:
PROVIDE LATERAL BRIDGING WHERE REQ'D PER NOTE ON 12/S1.5

EAST EXTERIOR ELEVATION - BUILDING 2 | 4 | 1/4" = 1'-0"



NOTE:
PROVIDE LATERAL BRIDGING WHERE REQ'D PER NOTE ON 12/S1.5

WEST EXTERIOR ELEVATION - BUILDING 1 & 3 | 2 | 1/4" = 1'-0"



NOTE:
PROVIDE LATERAL BRIDGING WHERE REQ'D PER NOTE ON 12/S1.5

SOUTH EXTERIOR ELEVATION - BUILDING 1 & 3 | 1 | 1/4" = 1'-0"

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SM

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Project #15621

Key Plan

Consultant Seal
KENNETH H. SALYER, No. C-19082, LICENSED ARCHITECT, STRUCTURAL, STATE OF CALIFORNIA, EXP. 12/31/18

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SAN MARCOS, CA 92069
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No.	Description	Date

Drawing Title:
ELEVATIONS

Architect's Seal
LICENSED ARCHITECT, KENNETH H. SALYER, NO. C-19082, REN. 11-30-18, STATE OF CALIFORNIA

Designed:	JC	Project No.	3443001-302
Drawn:	JPR	Scale:	1/4" = 1'-0"
QAQC	RR	Drawing No.	S5.1
Date:	10/18/2017		

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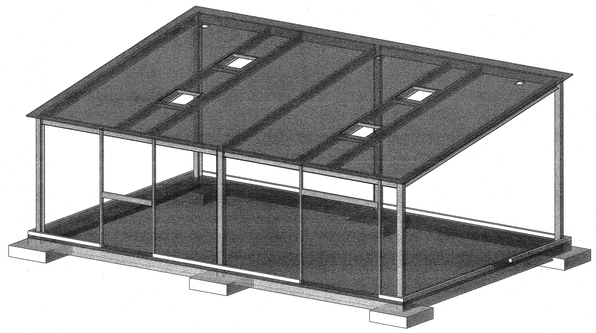
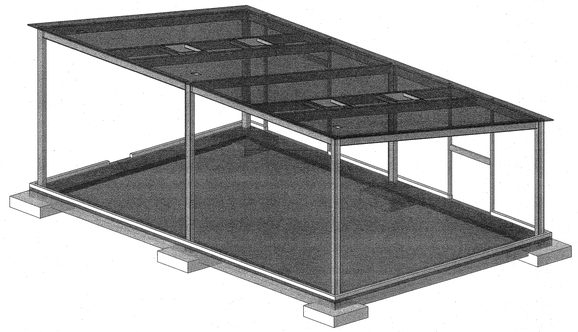
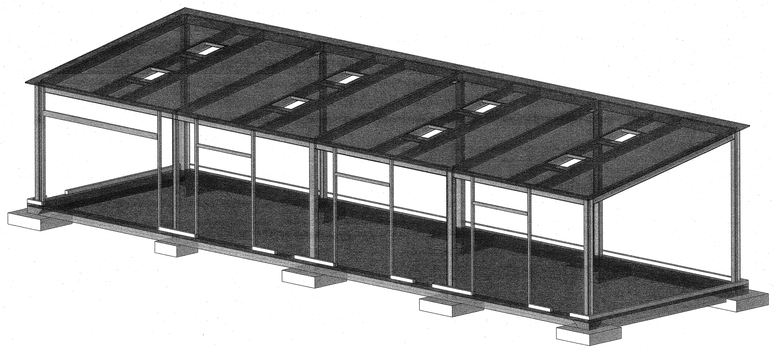
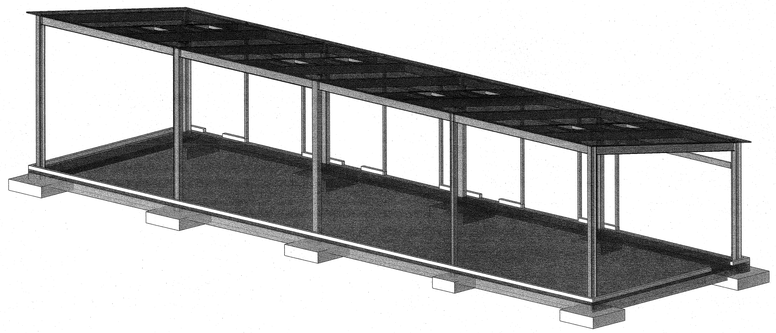




PERSPECTIVE VIEW - STORAGE BUILDING 2 | 2





PERSPECTIVE VIEW - STORAGE BUILDING 1 & 3 | 1

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Key Plan

Consultant Seal

REGISTERED PROFESSIONAL ENGINEER
KOUROSH SAIFUL
No. S4302
EXP. 12/31/18
STRUCTURAL
STATE OF CALIFORNIA

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Project Title

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No.	Description	Date

Drawing Title:
PERSPECTIVE VIEW

Architect's Seal

LICENSED ARCHITECT
KENNETH H. SAKATA
NO. C-19082
REN. 11-30-19
STATE OF CALIFORNIA

Designed:	JC	Project No.	3443001-302
Drawn:	JPR	Scale:	
QA/QC	RR	Drawing No.	SMOD
Date:	10/18/2017		

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KEYNOTES

NOTES

MA ENGINEERS
5160 Carroll Canyon Rd, Suite 200
San Diego, California 92121
Consulting Mechanical Engineers
Ⓣ858 200-0030 Ⓕ858 200-0037
www.ma-engr.com

Key Plan

Consultant Seal

5841

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(760) 744-1150

No.	Description	Date
1	DSA BACKCHECK	10/18/2017

Drawing Title:
PLUMBING OVERALL SITE PLAN

Architect's Seal

LICENSED ARCHITECT
KENNETH SALTER
NO. C-19082
REN. 11-30-19
STATE OF CALIFORNIA

Designed: Designer	Project No. 3443001-302
Drawn: Author	Scale: 1" = 20'-0"
QAQC Checker	Drawing No. P1.1
Date: 10/18/2017	

PLUMBING OVERALL SITE PLAN | 1 | 1" = 20'-0"

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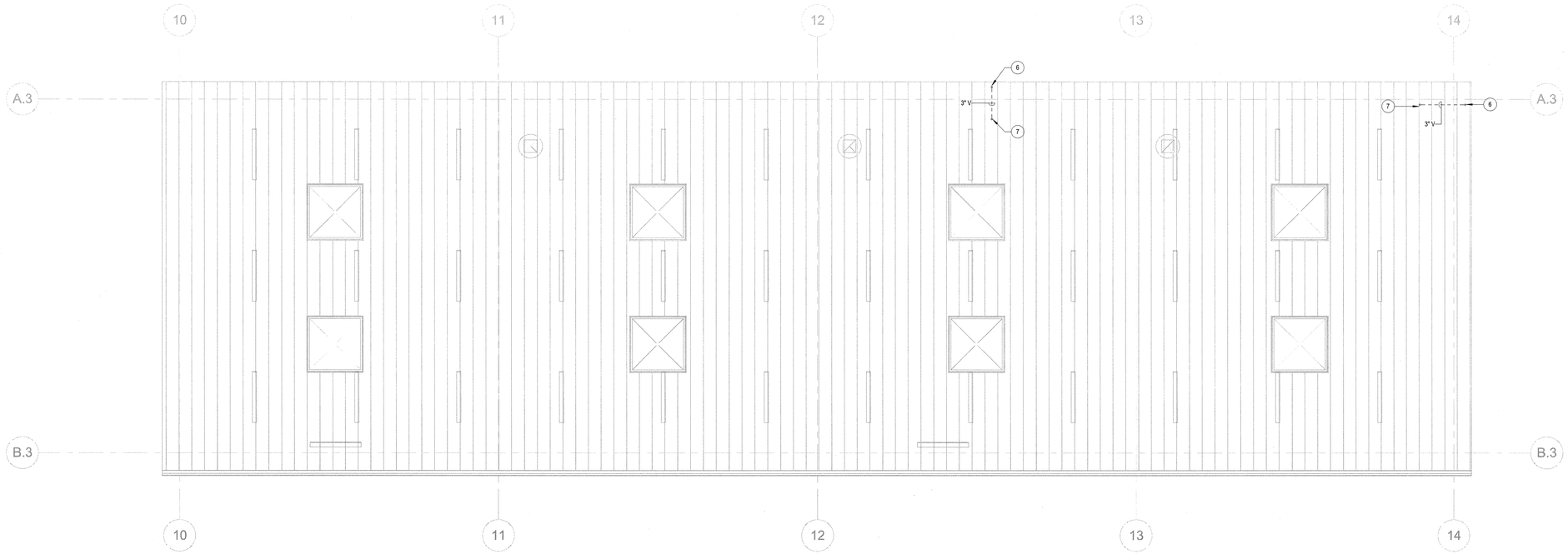
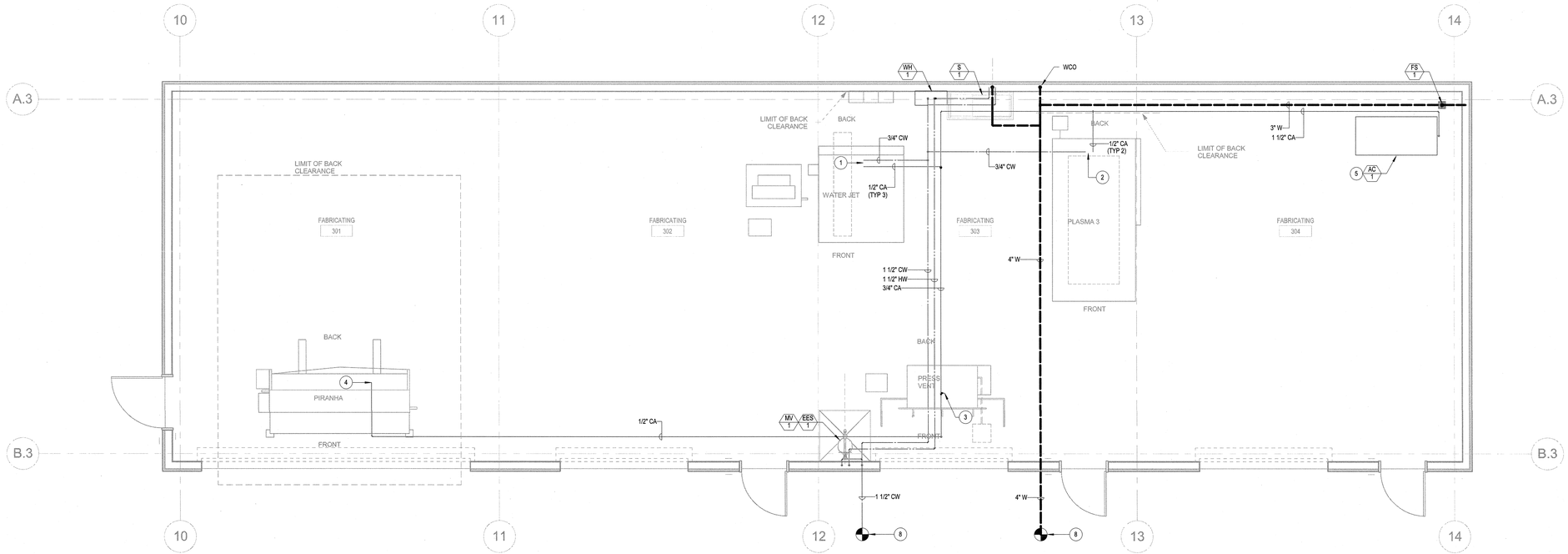


PLUMBING FABRICATION BUILDING 3 - ROOF PLAN | 1
1/4" = 1'-0"



PLUMBING FABRICATION BUILDING 3 - FLOOR PLAN | 2
1/4" = 1'-0"

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KEYNOTES

#	
1	ROUTE 1/2" COMPRESSED AIR AND 3/4" COLD WATER PIPING TO WATER JET.
2	ROUTE 1/2" COMPRESSED AIR AND 3/4" COLD WATER PIPING TO PLASMA 3.
3	ROUTE 1/2" COMPRESSED AIR PIPING TO PRESS VENT.
4	ROUTE 1/2" COMPRESSED AIR PIPNG TO PIRANHA.
5	PROVIDE 6" CONCRETE PAD FOR AIR COMPRESSOR.
6	3" VENT DOWN.
7	3" VTR.
8	FOR CONTINUATION, SEE CIVIL DRAWINGS.

NOTES

1. FOR AIR COMPRESSOR ANCHORAGE DTLS, REFER TO DETAIL: 2 / A10.8 & 9 / S1.2

MA ENGINEERS
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Consulting Mechanical Engineers
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www.ma-engr.com

Key Plan

Consultant Seal

5841

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(760) 744-1150

No.	Description	Date
1	DSA BACKCHECK	10/18/2017

Drawing Title:
PLUMBING FABRICATION BUILDING 3 FLOOR AND ROOF PLANS

Architect's Seal

LICENSED ARCHITECT KENNETH SALTER NO. C-19082 REN. 11-30-17 STATE OF CALIFORNIA

Designed:	Designer	Project No.	3443001-302
Drawn:	Author	Scale:	1/4" = 1'-0"
QAQC	Checker	Drawing No.	P2.3
Date:	10/18/2017		

ANCHORAGE NOTES

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G.: HARD-WIRED) TO BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS, OR WATER.
3. MOVABLE EQUIPMENT THAT IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS IS REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

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

B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS LESS THAN 5 POUNDS PER FOOT WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPORVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFFESIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2016 CBC SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., SMACNA OR OSHPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURNING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORDS SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

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

MP( ) MD( ) PP(X) E( ) - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP( ) MD( ) PP(X) E( ) - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM #) # OPM-0043-13.

MP( ) MD( ) PP(X) - OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009), INCLUDING ANY ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL AA AND CONNECTION LEVEL 4 FOR THE PROJECT AND CONDITIONS.

PLUMBING LEGEND AND ABBREVIATIONS

SYMBOL	ABBREV.	DESCRIPTION	SYMBOL	ABBREV.	DESCRIPTION
	POC	POINT OF CONNECTION		ABV	ABOVE
W	W	WASTE OR SEWER BELOW SLAB		A/C	ABOVE CEILING
W	W	WASTE OR SEWER ABOVE SLAB		A.F.F.	ABOVE FINISH FLOOR
V	V	SANITARY VENT		A.F.G.	ABOVE FINISH GRADE
CW	CW	COLD WATER		A/G	ABOVE GRADE
HW	HW	HOT WATER		A.P.	ACCESS PANEL
HWR	HWR	HOT WATER RETURN		B/F	BELOW FLOOR
CA	CA	COMPRESSED AIR		B/G	BELOW GRADE
	SOV	SHUT OFF VALVE		CFH	CUBIC FEET PER HOUR
	PRV	PRESSURE REDUCING VALVE		DWGS.	DRAWINGS
	FS	FLOOR SINK		EA.	EACH
	FD	FLOOR DRAIN		EXIST.	EXISTING
FCO	FCO	FLOOR CLEAN-OUT		(E)	EXISTING
WCO	WCO	WALL CLEAN-OUT		FT.	FEET OR FOOT
GCO	GCO	GRADE CLEAN-OUT		FDC	FIRE DEPARTMENT CONNECTION
DN	DN	DOWN OR DROP		F	FIRE RISER
UP	UP	RISE OR RISER		FLR.	FLOOR
HB	HB	HOSE BIBB		G.P.F.	GALLONS PER FLUSH
		VALVE ON RISE OR DROP		G.P.H.	GALLONS PER HOUR
U	U	UNION		G.P.M.	GALLONS PER MINUTE
				I.E.	INVERT ELEVATION
	RV	TEMPERATURE & PRESSURE RELIEF VALVE		KG	KILOGRAMS
F	F	FIRE SPRINKLER PIPING		kPq	KILOPASCALS
CD	CD	CONDENSATE DRAIN PIPING		L.P.F.	LITERS PER FLUSH
	FDC	FIRE DEPARTMENT CONNECTION		L/S	LITERS PER SECOND
	CP	CIRCULATING PUMP		MSA	MEDIUM PRESSURE GAS METER
	CV	CHECK VALVE		mm	MILLIMETER
	TP	TRAP PRIMER		NTS	NOT TO SCALE
	WHA	WATER HAMMER ARRESTOR		ORD	OVERFLOW ROOF DRAIN
				LB	POUNDS
	REG	GAS REGULATOR W/SHUT-OFF VALVE		PSI	POUNDS PER SQUARE INCH
				RD	ROOF DRAIN
					SET ASSEMBLY
				SF	SQUARE FEET
				T.D.H.	TOTAL DEVELOPED HEAD
				V.T.R.	VENT THROUGH ROOF
				W.C.	WATER COLUMN
				WHA	WATER HAMMER ARRESTOR

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE	ROUGH-IN HW	CW	W	TRAP	V	REMARKS
S 1	SINK	1/2"	1/2"	2"	1 1/2"	1 1/2"	COUNTERTOP SINK, GOOSENECK FAUCET.
FS 1	FLOOR SINK	--	--	2"	2"	1 1/2"	PROVIDE AUTOMATIC TRAP PRIMER.
TP 1	TRAP PRIMER	--	1/2"	--	--	--	FLOOR SINKS/DRAINS.
EES 1	EMERGENCY EYEWASH SHOWER	1 1/2"	1 1/2"	--	--	--	FLOOR MOUNT. PROVIDE WITH HOT WATER TEMPERED VALVE, FLOW SWITCH, LOCAL AUDIBLE ALARM SILENCING SWITCH, FLASHING STROBE LIGHT.
MV 1	MIXING VALVE	1 1/2"	1 1/2"	--	--	--	THERMOSTATIC MIXING VALVE, EMERGENCY EYEWASH SHOWER.

PLUMBING EQUIPMENT SCHEDULE

SYMBOL	TYPE	ELECTRICAL DATA POWER (HP)	VOLTS (V)	PHASE (PH)	HERTZ (HZ)	WEIGHT (LBS)	DESCTIPTION
WH 1	ELECTRIC WATER HEATER	54 KW	480	3	--	--	ELECTRIC WATER HEATER UNIT ENCLOSED IN A POWDER-COATED, COLD ROLLED STEEL NEMA 4 RATED CABINET.
AC 1	AIR COMPRESSOR	15	460	3	60	1,735	FIXED SPEED ROTARY SCREW COMPRESSOR, 65 CFM @ 125 PSIG.

GENERAL NOTES

1. THESE DRAWINGS ARE A GENERAL GRAPHIC PRESENTATION OF THE WORK. PIPING AND EQUIPMENT, AS SHOWN, ARE SCHEMATIC. FABRICATE AND INSTALL BASED ON ACTUAL FIELD MEASUREMENT. COORDINATE WITH OTHER TRADES. PROVIDE A COMPLETE SET OF SHOP DRAWINGS REFLECTING ACTUAL INSTALL, ACCESS REQUIREMENTS, AND DETAILS BASED UPON THE ACTUAL EQUIPMENT PROCURED. MAINTAIN AN UP TO DATE SET OF AS-BUILT DRAWINGS AT THE JOB SITE.
2. COMPLY WITH CALIFORNIA MECHANICAL CODE (CMC), CALIFORNIA PLUMBING CODE (CPC), AND NATIONAL FIRE PROTECTION AGENCY (NFPA), AND GOVERNING CODES. THERE SHALL BE NO EXCEPTION. REPORT DEFICIENCIES WITHIN THIRTY (30) DAYS UPON AUTHORIZATION TO PROCEED.
3. PROVIDE ACCESS AND CLEARANCE FOR MAINTENANCE FOR MECHANICAL & PLUMBING EQUIPMENT AND COMPONENTS AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER AND APPLICABLE CODES.
4. HANDLE, STORE AND INSTALL EQUIPMENT PER MANUFACTURERS INSTRUCTIONS.
5. NO PLUMBING SHALL BE INSTALLED UNTIL ALL REQUIRED PLUMBING PLAN CHECK PERMITS AND APPROVALS HAVE BEEN OBTAINED FROM ALL REQUIRED AGENCIES.
6. LAVATORY FAUCETS, SINK FAUCETS (NOT INCLUDING SERVICE SINK FAUCETS OR FAUCETS DESIGNATED AT INSTITUTIONAL) SHALL MEET THE FLOW REQUIREMENTS OUTLINED IN THE APPLIANCE EFFICIENCY STANDARDS.
7. COORDINATE WITH THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF PLUMBING FIXTURES AND DRAINS.
8. HOSE BIBBS SHALL BE PROTECTED BY AN APPROVED NON-REMOVABLE TYPE BACKFLOW PROTECTION DEVICE. HOSE BIBBS SHALL BE MOUNTED AT +18" ABOVE FLOOR UNLESS OTHERWISE NOTED.
9. PROVIDE ALL TAILPIECES, TRAPS, STOPS, SUPPLY PIPES TO LAVATORIES DESIGNED AS ACCESSIBLE, WITH PREFORMED INSULATION JACKET.
10. COORDINATE AND VERIFY SIZES, LOCATIONS, DEPTHS AND PRESSURIZED PIPING PRESSURES OF ALL BUILDING UTILITIES WITH CIVIL.
11. COORDINATE AND SCHEDULE TIMING FOR UTILITY SERVICE CONNECTION.
12. ALL LINES BELOW SLAB ON GRADE TO BE LOCATED AWAY FROM ALL LOAD BEARING FOOTINGS.
13. ALL LINES RUNNING BELOW GRADE BEAMS OR PENETRATING, SEE STRUCTURAL DRAWINGS FOR CONSTRUCTION.
14. ALL VENTS THRU ROOF SHALL BE MINIMUM OF 18 INCHES VERTICAL AND FIFTEEN FEET HORIZONTAL AWAY FROM ALL AIR CONDITIONING FRESH AIR INTAKES AND PROVIDED WITH VANDAL PROOF HOODS.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF WALLS, ROOFS, FOOTINGS, FLOORS, INCLUDING ALL SAW CUTTING AND CORE DRILLING. COORDINATE ALL SAW CUTTING AND CORE DRILLING WITH STRUCTRUAL DRAWINGS. ANY CUTTING AND DRILLING REQUIRED OF STRUCTURAL ELEMENTS THAT IS NOT SPECIFICALLY SHOWN ON THE PLANS SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION PRIOR TO CUTTING AND DRILLING. CONTRACTOR SHALL SUBMIT PROPOSED LOCATION AND SIZES OF SUCH CUTTING AND DRILLING FOR THE ARCHITECTS AND STRUCTURAL ENGINEERS APPROVAL.
16. COORDINATE ALL EQUIPMENT LOCATIONS, PIPE PENETRATIONS AND EQUIPMENT PAD LOCATIONS WITH STRUCTURAL DRAWINGS PRIOR TO WORK.
17. COORDINATE INSTALLATION OF ALL EQUIPMENT AND PIPING WITH OTHER TRADES PRIOR TO INSTALLATION. ENSURE THAT ALL CONTROL DEVICES, SHUT-OFF VALVES, ETC. ARE ACCESSIBLE FOR MAINTENANCE. WHERE ACCESS PANELS IN FINISHED SPACES, OTHER THAN THAT SHOWN, CONTRACTOR SHALL PROVIDE AND COORDINATE EXACT LOCATION OF PANELS WITH ARCHITECT PRIOR TO INSTALLATION.
18. INSTALL VALVES WITH UNIONS OR FLANGES AT EACH PIECE OF EQUIPMENT ARRANGED TO ALLOW SERVICE, MAINTENANCE, AND EQUIPMENT REMOVAL WITHOUT SYSTEM SHUT-DOWN.
19. ANY STRUCTURAL FIREPROOFING DAMAGED DURING INSTALLATION OF PLUMBING EQUIPMENT, PIPING, ETC. SHALL BE REPAIRED AT NO COST TO THE OWNER. REPAIRS SHALL BE AS DIRECTED BY THE ARCHITECT.
20. PROVIDE VACUUM BREAKERS AT HOSE BIBBS.
21. FAUCETS TO BE 1.8 GPM MAXIMUM.
22. WATER HEATER IS TO BE USED ON CALIFORNIA ENERGY COMMISSION (CEC) LIST.
23. PROVIDE EXPANSION TANK OR OTHER APPROVED METHOD OF RELIEVING PRESSURE (SECTION 608.3 CPC).
24. CROSS CONNECTION PROTECTION SHALL BE PROVIDED AT ALL POTABLE WATER SUPPLIED APPLIANCES AND EQUIPMENT.
25. COORDINATE WITH ELECTRICAL AND CONTROL CONTRACTORS FOR ALL POWER REQUIREMENTS PRIOR TO BID.
26. COORDINATE WITH ELECTRICAL AND CONTROL CONTRACTORS FOR ALL POWER REQUIREMENTS PRIOR TO ORDERING ANY EQUIPMENT.
27. UPON INSTALLATION OF ALL EQUIPMENT, DEVICES, VIBRATION ISOLATION, ETC., PROVIDE WRITTEN CONFIRMATION BY EQUIPMENT MANUFACTURER'S REPRESENTATIVES TO ENSURE COMPLIANCE WITH MANUFACTURER'S REQUIREMENTS.
28. PROVIDE DETAILS AND SEISMIC CALCULATIONS FOR ALL EQUIPMENT ON VIBRATION ISOLATION. ALL DETAILS SHALL BE STAMPED BY A STRUCTURAL ENGINEER FROM VIBRATION ISOLATIONS MANUFACTURER.
29. FOR EACH SUBMITTAL, THE CONTRACTOR SHALL PROVIDE A LETTER (ON COMPANY LETTERHEAD) AND SIGNED BY THE PROJECT MANAGER INDICATING THE SUBMITTAL HAS BEEN FULLY IN HOUSE REVIEWED TO ENSURE FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS AND COORDINATION WITH OTHER TRADES. ANY EXCEPTIONS TO THE CONTRACT DOCUMENTS SHALL BE CLEARLY INDICATED ON THIS LETTER. ANY DISCREPANCIES/EXCEPTIONS NOT IDENTIFIED IN WRITING SHALL BE CORRECTED AT THE SOLE EXPENSE OF THE CONTRACTOR AND AT NO EXPENSE TO THE OWNER AND ENGINEER.
30. THE CONTRACTOR SHALL SELECT ALL CIRCUIT SETTERS/BALANCING VALVES FOR ACTUAL FLOW THROUGH THE PIPE AND THE PROPER PRESSURE DROP TO ENSURE PROPER OPERATION AND NOT BASED ON PIPE SIZES.

HMC Architects
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KEYNOTES

NOTES

MA ENGINEERS
5160 Carroll Canyon Rd, Suite 200
San Diego, California 92121
Consulting Mechanical Engineers
(T) 858 200-0030 (F) 858 200-0037
www.ma-engr.com

Key Plan

Consultant Seal

5841

Agency Approval FILE NO. 37-C1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 04-115420
ACS. SC FLS JP SSS WB
DATE OCT 18 2017

Project Title

PALOMAR COLLEGE®
Learning for Success

PALOMAR COLLEGE
NEW STORAGE BUILDINGS
1140 W. MISSION RD.,
SAN MARCOS, CA 92069
(760) 744-1150

No.	Description	Date
1	DSA BACKCHECK	10/18/2017

Drawing Title:
PLUMBING GENERAL NOTES, LEGEND, AND SCHEDULES

Architect's Seal

LICENSED ARCHITECT KENNETH SALYER NO. C-19082 REN. 11-30-17 STATE OF CALIFORNIA

Designed: Designer	Project No. 3443001-302
Drawn: Author	Scale: NO SCALE
QAQC Checker	Drawing No. P4.1
Date: 10/18/2017	

DSA APPROVAL

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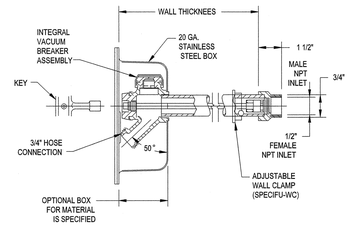

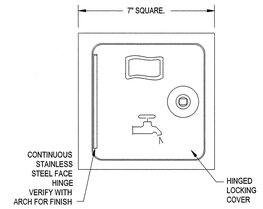

1 HOSE BIBB DETAIL (BOX TYPE)
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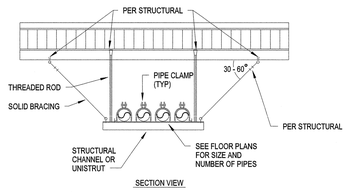

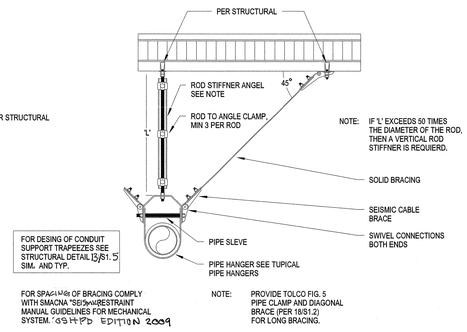

2 TYPICAL PIPE HANGERS
NO SCALE

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KEYNOTES

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Ⓣ858 200-0030 Ⓕ858 200-0037
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Consultant Seal

5841

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APPL. 04-115420
ACS 5 FLS 15 SSS 13
DATE OCT 18 2017

Project Title

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Learning for Success

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NEW STORAGE BUILDINGS
1140 W. MISSION RD.,
SAN MARCOS, CA 92069
(760) 744-1150

No.	Description	Date
1	DSA BACKCHECK	10/18/2017

Drawing Title:
PLUMBING DETAILS

Architect's Seal

LICENSED ARCHITECT KENNETH SALTER NO. C-13082 REN. 11-30-2017 STATE OF CALIFORNIA

Designer:	Designer	Project No.	3443001-302
Drawn:	Author	Scale:	NO SCALE
QA/QC	Checker	Drawing No.	P10.01
Date:	10/18/2017		

DSA APPROVAL

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ABBREVIATIONS

A	AMPERE (AMPS)
AC	ALTERNATING CURRENT
AF	AMPS-FRAME (RATING)
AIC	AMP INTERRUPTING CURRENT
AM	AMMETER
AS	AMP SWITCH (FUSED SWITCH RATING)
AT	AMPS-TRIP (RATING)
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
BLDG	BUILDING
C	CONDUIT
CB	CIRCUIT BREAKER
CO	CONDUIT ONLY
CT	CURRENT TRANSFORMER
CU	COPPER
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
DPB	DISTRIBUTION PANELBOARD
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
DWG	DRAWING
EX	EXISTING
FLA	FULL LOAD AMPS
FVR	FULL VOLTAGE REVERSING
FVNR	FULL VOLTAGE NON-REVERSING
GFI	GROUND FAULT INTERRUPTER
GRD/GND	GROUND
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HZ	HERTZ
KW	KILOWATT
LCL	LONG CONTINUOUS LOAD
LRA	LOCKED ROTOR AMPS
LTG	LIGHTING
MCC	MOTOR CONTROL CENTER
MCM (KCM)	THOUSAND CIRCULAR MILS
MECH	MECHANICAL
NC	NORMALLY CLOSED
NF	NON-FUSED
NO	NORMALLY OPEN/NUMBER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
P	POLE
PH	PHASE
POC	POINT OF CONNECTION
PRS	PVC COATED RIGID STEEL (CONDUIT)
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE DUCT
RGS	RIGID GALVANIZED STEEL
SWBD	SWITCHBOARD
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
V	VOLT
VA	VOLTAMPERES
VM	VOLTMETER
VL	VERIFY LOCATION
W	WIRE/WATTS
WP	WEATHERPROOF (NEMA TYPE 3R)
WT	WATERTIGHT
XP	EXPLOSION PROOF (RATED FOR AREA HAZARD)

ELECTRICAL SYMBOL LEGEND

LIGHTING

- (A) — LIGHTING FIXTURE DESIGNATION
- O O-H — LIGHTING FIXTURE, CEILING OR WALL MOUNTED AS SHOWN.
- ═══ — FLUORESCENT STRIP LIGHT
- S_a — SINGLE POLE SWITCH, SUBSCRIPT WHEN SHOWN INDICATES FIXTURES CONTROLLED +48" A.F.F. (U.O.N.) HEIGHT PER DETAILS #/E1.Ø.

POWER CONTINUED

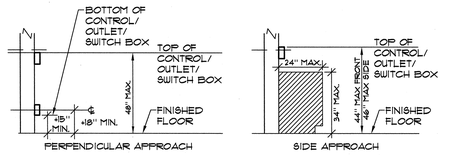
- ⊖ — DUPLEX RECEPTACLE, WALL MOUNTED, +18" A.F.F. (U.O.N.)
- ⊖GFI — DUPLEX GROUND FAULT INTERRUPTING RECEPTACLE +18" A.F.F. (U.O.N.)
- ⊖ — DUPLEX RECEPTACLE ON EMERGENCY CIRCUIT +18" A.F.F. (U.O.N.)
- ⊖WP — DUPLEX RECEPTACLE IN WEATHERPROOF ENCLOSURE +18" A.F.F. (U.O.N.)
- ⊖WP/L — DUPLEX RECEPTACLE IN WEATHERPROOF "LOCKING" ENCLOSURE +18" A.F.F. (U.O.N.) (SEE TYPICAL DETAILS E3 SERIES SHEETS AND SPECIFICATIONS FOR REQUIRED TYPE).
- A-H — SINGLE RECEPTACLE 30 AMP, 250V, 4W, GROUNDING, WALL MOUNTED +24" A.F.F. (U.O.N.). FIELD VERIFY EXACT OUTLET CONFIGURATION WITH EQUIPMENT PRIOR TO ROUGH-IN.
- (J) — JUNCTION BOX, FLOOR MOUNTED
- J J-H — JUNCTION BOX, CEILING OR WALL MOUNTED
- HD-H — HAND DRYER CONNECTION, SEE ARCHITECTURAL FOR MOUNTING HEIGHT.
- (1) — MOTOR CONNECTION, NUMERAL INDICATES HORSEPOWER.
- AC-1 — MECHANICAL EQUIPMENT TAG (SEE MECHANICAL DRAWINGS FOR DESCRIPTION)
- CONDUIT AND WIRE, CONCEALED IN CEILING OR WALL
- CONDUIT AND WIRE, CONCEALED IN OR UNDER FINISHED FLOOR OR UNDER FINISHED GRADE.
- FLEXIBLE CONDUIT CONNECTION
- BRANCH CIRCUIT HOMERUN TO PANEL. SLASHES INDICATE NUMBER OF CONDUCTORS. EQUIPMENT GROUND WIRE NOT INDICATED U.O.N. #12 CONDUCTORS ARE MINIMUM, NO HASH MARKS = MIN (2) #12
- 3/4" CONDUIT STUBBED FROM DEVICE TO ABOVE ACCESSIBLE CEILING
- #8 — BRANCH CIRCUIT HOMERUN, NUMBER INDICATES INCREASED CONDUCTOR SIZE, CONDUCTORS SHALL REMAIN AS INDICATED FOR SIZE THROUGHOUT THE ENTIRE CIRCUIT.
- PANELBOARD, SURFACE MOUNTED.
- PANELBOARD, RECESSED
- S_M — MOTOR RATED SWITCH
- (TS) — THERMOSTAT (LINE VOLTAGE)

SYMBOL LENGEND

- H-[S] — WALL MOUNTED MANUAL ON AND OFF SWITCH +48" U.O.N.
- H-[S]DT — WALL MOUNTED DUAL TECH MOTION SENSOR WITH MANUAL ON AND OFF 48" U.O.N.
- [S] — CEILING MOUNTED MOTION SENSOR (DUAL TECHNOLOGY)
- [S] — WALL MOUNTED MOTION SENSOR (DUAL TECH) +84" U.O.N.
- [MC] — SINGLE CIRCUIT ROOM CONTROLLER FOR ROOMS WITH ONE DIMMING ZONE.
- [MC2] — SINGLE CIRCUIT ROOM CONTROLLER FOR ROOMS WITH TWO DIMMING ZONES.
- [MC3] — SINGLE CIRCUIT ROOM CONTROLLER FOR ROOMS WITH THREE DIMMING ZONES.
- [PL] — PLUG LOAD CONTROLLER
- [DS] — DAYLIGHT SENSOR
- H-[S]T — TEACHER 4 SCENE DIMMING CONTROL STATION
- H-[S]K — MANUAL ON AND OFF KEY SWITCH
- H-[S]a — MAIN ENTRY MANUAL ON AND OFF WITH DIMMER FOR ZONE 'a'
- H-[S]ab — MAIN ENTRY MANUAL ON AND OFF WITH DIMMER FOR ZONE 'a''b'
- H-[S]abc — MAIN ENTRY MANUAL ON AND OFF WITH DIMMER FOR ZONE 'a''b''c'

GENERAL NOTES

1. REFERENCE SPECIFICATION SECTION 26Ø923 DIGITAL LIGHTING CONTROL SYSTEM FOR ADDITIONAL SCOPE OF WORK.
2. ITEMS [MC] [MC2] [MC3] [PL] TO BE WALL MOUNTED ABOVE THE ROOM ENTRY DOOR, ABOVE THE CEILING IN ALL ROOMS WITH T-BAR CEILINGS.
3. ITEMS [MC] [MC2] [MC3] [PL] TO BE LOCATED WITHIN A 24" x 24" RECESSED ENCLOSURE WITH HINGED LOCKING COVER LOCATED ABOVE THE ROOM ENTRY DOOR IN ALL ROOMS WITH INACCESSIBLE CEILINGS.
4. ALL Ø-1ØV WIRING AND CAT 5E WIRING MAY BE INSTALLED AS OPEN WIRE WHERE ABOVE ACCESSIBLE CEILINGS. WHERE ABOVE INACCESSIBLE OR EXPOSED CEILINGS IT SHALL BE INSTALLED IN CONDUIT.
5. [S] — WHERE CEILING HEIGHT EXCEED 11'-Ø" OR ROOM HAS EXPOSED CEILING PROVIDE [S] TYPE SENSOR MOUNTED ON WALL IN PLACE OF CEILING SENSOR.



NOTE: MAINTAIN MINIMUM 30"X48" CLEAR FLOOR SPACE AT EACH APPROACH.

MOUNTING HEIGHT OVER OBSTRUCTION — NO SCALE — 1 / E1Ø

GENERAL PROJECT NOTES:

1. UNLESS WHERE OTHERWISE NOTED, ALL WORK INDICATED ON THESE DRAWINGS SHALL BE CONSIDERED NEW WORK.
2. UNLESS WHERE OTHERWISE NOTED, ALL DIMENSIONS ARE TO BE CENTERLINE OF THE DEVICE.
3. "GENERAL NOTES" SHOWN ON AN INDIVIDUAL DRAWING APPLY TO ALL WORK SHOWN ON THAT SHEET. "KEY NOTES" ONLY APPLY TO SPECIFIC ITEMS WHERE ANNOTATED AT SPECIFIC LOCATIONS. SOME KEY NOTES MAY NOT APPLY TO ANY SPECIFIC ITEMS.
4. UNLESS SPECIFICALLY SHOWN ON THESE PLANS, NO STRUCTURAL MEMBER SHALL BE CUT, NEITHER DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT.

GENERAL DEMOLITION NOTES:

1. ALL ELECTRICAL EQUIPMENT, EXPOSED RACEWAY AND CONDUIT, OUTLET BOXES AND RINGS, AND DEVICES ARE TO BE REMOVED, EXCEPT WHERE SHOWN TO REMAIN. EXISTING WIRING, WHETHER EXPOSED, IN CONDUIT OR RACEWAY IS TO BE REMOVED TO THE GREATEST EXTENT POSSIBLE.
2. THE ELECTRICAL CONTRACTOR IS TO DIRECT THE REMOVAL OF THE ABOVE LISTED WORK.

MEP COMPONENT ANCHORAGE NOTE:

ALL ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2Ø13 CBC, SECTIONS 1616A1.18 THROUGH 1616A1.26 AND ASCE 7-1Ø CHAPTER 13, 26 AND 3Ø.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 4ØØ POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

A. COMPONENTS WEIGHING LESS THAN 4ØØ POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

B. COMPONENTS WEIGHING LESS THAN 2Ø POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

For those elements that do not require details on the approved drawings, the installation shall be subject to the approval of the design professional in general responsible charge or structural engineer delegated responsibility and the DSA District Structural Engineer. The project inspector will verify that all components and equipment have been anchored in accordance with above requirements.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-1Ø SECTION 13.3 AS DEFINED IN ASCE 7-1Ø SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2Ø13 CBC, SECTIONS 1616A1.23, 1616A1.24 AND 1616A1.25 AND 1616A1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (e.g. SMACNA OR OSHPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

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

MP☐MD☐PP☐E☒ - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐MD☐PP☐E☐ - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM)*

MP☐MD☐PP☐ - OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2ØØ9), INCLUDING ANY ADDENDA, FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPACIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL _____ AND CONNECTION LEVEL _____ FOR THE PROJECT AND CONDITIONS.

FIRE RATED ASSEMBLIES NOTE:

1. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT DESCRIPTION AND DETAIL OF ALL FIRE RATED ASSEMBLIES.

HMC Architects
3546 Concours Street / Ontario, CA 91764
T 909 989 9979 / www.hmcarchitects.com

REGISTERED PROFESSIONAL ENGINEER — No. E 14781 — Exp. 5-30-2019 — ELECTRICAL — STATE OF CALIFORNIA

JOHNSON CONSULTING ENGINEERS, INC.
Power | Lighting | Multimedia
Communications | Data Networking
12875 Brookprinter Place, Suite 300
Poway, CA 92064
P 858.679.4030 | F 858.513.0559
www.jce-inc.com

#5Ø47 — 1Ø/1Ø/2Ø17

Key Plan

Consultant Seal

Agency Approval — FILE NO. 37-C1

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Project Title

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SAN MARCOS, CA 92069
(760) 744-1150

No.	Description	Date

Drawing Title:
TITLE SHEET

Architect's Seal

LICENSED ARCHITECT — KENNETH SALTER — NO. C-19082 — REN. 11-30-17 — STATE OF CALIFORNIA

Designed:	DSG	Project No.	3324002
Drawn:	DRW	Scale:	1/8" = 1'-0"
QAQC	CHK	Drawing No.	E1.0
Date:	10/18/2017		

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01 January, 2000

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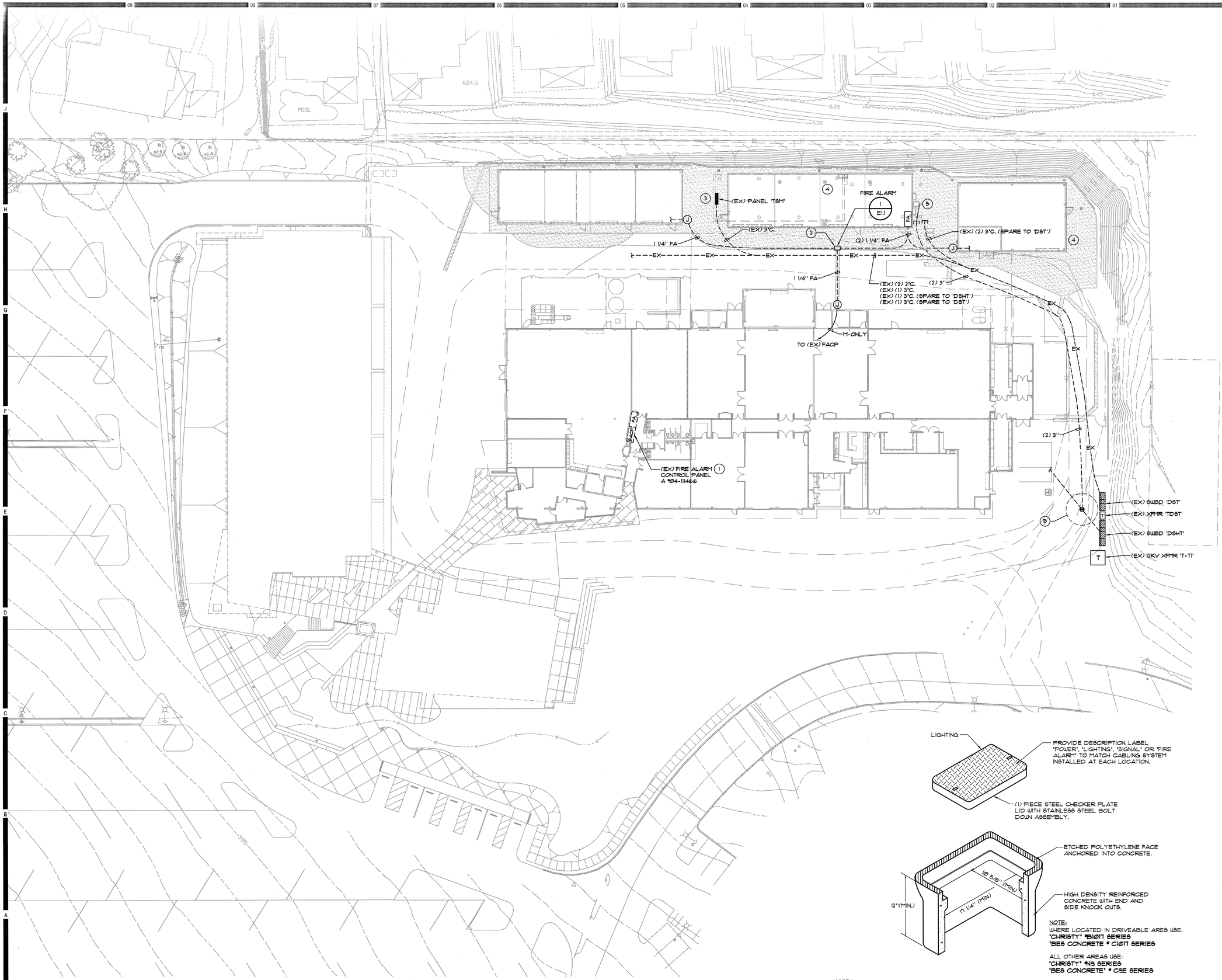

UTILITY SITE PLAN

SCALE: 1" = 20'-0"

NORTH

UNDERGROUND PULLBOX STYLE 'A'

NO SCALE

DET-H 1 / E1.1

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01 January, 2000

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KEY NOTES:

1. PROVIDE ADDITIONAL SIGNAL LINE CIRCUIT CARD AND ADDITIONAL NAC CIRCUIT CARD IN EXISTING FACP. PROVIDE ALL SOFTWARE, HARDWARE AND PROGRAMMING FOR A COMPLETE SYSTEM.
2. FIELD VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
3. DISCONNECT AND REMOVED EXISTING PANELBOARD AND FEEDERS COMPLETELY. RETURN PANELBOARD AND FEEDER TO COLLEGE.
4. DISCONNECT AND REMOVE ALL LIGHTING CONNECTED TO WOOD STRUCTURE, AND STORAGE CONTAINERS. RETURN TO COLLEGE.
5. LOCATE EXISTING (2) 3" CONDUIT SPARE FROM EXISTING DISTRIBUTION SWITCHBOARD 'DSHT'. RE-ROUTE AND EXTEND TO NEW DISTRIBUTION PANELBOARD 'TH' LOCATION. SEE FLOOR PLAN FOR MORE INFORMATION.

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REGISTERED PROFESSIONAL ENGINEER — No. E 14781 — Exp. 6-30-2019 — ELECTRICAL — STATE OF CALIFORNIA

#5047 10/13/2017

Key Plan

Consultant Seal

Agency Approval FILE NO. 37-C1

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(760) 744-1150

No.	Description	Date

Drawing Title:
SITE PLAN

Architect's Seal

LICENSED ARCHITECT — KENNETH SALYER — NO. C-19082 — REN. 11-30-17 — STATE OF CALIFORNIA

Designed:	DSG	Project No.	3324002
Drawn:	DRW	Scale:	1/8" = 1'-0"
QAQC	CHK	Drawing No.	E1.1
Date:	10/18/2017		

STATE OF CALIFORNIA
INDOOR LIGHTING
(SECMRCC-LTI-01-E (Revised 10/16))
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTI-01-E
Indoor Lighting — (Page 1 of 6)
Project Name: Palomar College Storage Buildings - BLDG. 1 — Date Prepared: 10/12/2017

A. General Information
Climate Zone: 10 — Conditioned Floor Area: — Unconditioned Floor Area: 2918

Building Type:	☒ Nonresidential	☐ High-Rise Residential	☐ Hotel/Motel		
☒ Schools	☐ Relocatable Public Schools	☐ Conditioned Spaces	☐ Unconditioned Spaces		
Phase of Construction:	☒ New Construction	☐ Addition	☐ Alteration		
Method of Compliance:	☐ Complete Building	☒ Area Category	☐ Tailored		

Project Address: 1140 W Mission Rd, San Marcos, CA 92069

B. Lighting Compliance Documents (select yes for each document included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

YES	NO	COMP. DOC.	TITLE
◉	○	NRCC-LTI-01-E	Certificate of Compliance. All Pages required on plans for all submittals.
◉	○	NRCC-LTI-02-E	Lighting Controls, Certificate of Compliance, and PAF Calculations. All Pages required on plans for all submittals.
◉	○	NRCC-LTI-03-E	Indoor Lighting Power Allowance
○	○	NRCC-LTI-04-E	Tailored Method Worksheets
○	○	NRCC-LTI-05-E	Line Voltage Track Lighting Worksheets
○	○	NRCC-LTI-06-E	Indoor Lighting Existing Conditions

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance — April 2016

C. Summary of Allowed Lighting Power
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
01	**Installed** Lighting NRCC-LTI-01-E, Table H, page 5	+			**Installed** Lighting NRCC-LTI-01-E, Table H, page 5	+	1728
02	Portable Only for Offices NRCC-LTI-01-E, Table G, page 4	+					
03	Minus Lighting Control Credits NRCC-LTI-02-E, page 2	−			Minus Lighting Control Credits NRCC-LTI-02-E, page 2	−	
04	Adjusted **Installed** Lighting Power (row 1 plus row 2 minus row 3)	=	0		Adjusted **Installed** Lighting Power (row 1 minus row 3)	=	1728
	Complies ONLY if **Installed** ≤ **Allowed** (Box 04 < Box 05)				Complies ONLY if **Installed** ≤ **Allowed** (Box 04 < Box 05)		
05	**Allowed** Lighting Power Conditioned NRCC-LTI-03-E, page 1 — Alterations with replacement luminaires that have at least 50/35%lower power compared to the original existing luminaires, may instead use the allowed wattage from NRCC-LTI-06, page 2				**Allowed** Lighting Power Unconditioned NRCC-LTI-03-E, page 1 — Alterations with replacement luminaires that have at least 50/35% lower power compared to the original existing luminaires, may instead use the allowed wattage from NRCC-LTI-06, page 2		1750.8

D. Declaration of Required Certificates of Installation
Declare by selecting yes for all of the Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	Form/Title	
○	○	NRCA-LTI-01-E - Must be submitted for all buildings	☐ Field Inspector
○	○	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐ Field Inspector
○	○	NRCA-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance.	☐ Field Inspector
○	○	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a conversation center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	☐ Field Inspector
○	○	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐ Field Inspector
○	○	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐ Field Inspector

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance — April 2016

E. Declaration of Required Certificates of Acceptance
Declare by selecting yes for all of the Certificates of Acceptance that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	FORM/TITLE	
○	○	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐ Field Inspector
○	○	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐ Field Inspector
○	○	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐ Field Inspector
○	○	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF).	

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**

F. Indoor Lighting Schedule and Field Inspection Energy Checklist
☐ The actual indoor lighting power listed on the next 2 pages includes all installed permanent and planned portable lighting systems.
☐ When Complete Building Method is used for compliance, list each different type of luminaire on separate lines.
☐ When Area Category Method or Tailored Method is used for compliance, list each different type of luminaire by each different function area on separate lines
☐ Also include track lighting in schedule, and submit the track lighting compliance document (NRCC-LTI-03-E) when line-voltage track lighting is installed.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance — April 2016

G. Installed Portable Luminaires in Offices – Exception to Section 140.6(a)
- This section shall be filled out ONLY for portable luminaires in offices (As defined in §100.1). All other planned portable luminaires shall be documented on next page of this compliance document.
- This section is used to determine if greater than 0.3 watts of portable lighting is planned for any office
- Fill out a separate line for each different office. Small offices that are typical (having the same general and portable lighting) may be grouped together. This allowance shall not be traded between offices having different lighting systems.

Office Portable Luminaire Schedule		Office Installed Portable Luminaire W/ft²					Office Location	Field Inspector	
01	02	03	04	05	06	07	08	09	10	
Complete Luminaire Description (i.e., LED, under cabinet, furniture mounted direct/indirect)	Watts per Luminaire	Luminaires	Installed portable luminaire watts in this office (Col2 x Col3)	Watts per square foot (Col4 / Col5	Watts per square foot IF Col6 < 0.3, enter zero.	IF Col6 ≤ 0.3, enter (Col6 x 0.3)	(Col5 x Col7)	Identify Office area in which these portable luminaires are installed	Pass	Fail
			0				0		☐	○
			0				0		☐	○
			0				0		☐	○
			0				0		☐	○
			0				0		☐	○
Total installed portable luminaire watts that are greater than 0.3 W/ft² per office:								Enter sum total of all pages into NRCC-LTI-01-E; Page 2		

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance — April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING
(SECMRCC-LTI-01-E (Revised 10/16))
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTI-01-E
Indoor Lighting — (Page 5 of 6)
Project Name: Palomar College Storage Buildings - BLDG. 1 — Date Prepared: 10/12/2017

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**

H. Indoor Lighting Schedule and Field Inspection Energy Checklist

Luminaire Schedule		Installed Watts				Location	Field Inspector	
01	02	03	04		05	07	08	
Name or Item Tag	Complete Luminaire Description (i.e, 3 lamp fluorescent troffer, F32T8, omi dimmable electronic ballast)	Watts per Luminaire	How wattage was determined: CEC Default Table (check box)	How wattage was determined: According to Equipment Data Sheets (check box)	Number of Luminaires	Total Installed Watts in this row (Col3 x Col5)	Primary Function area in which these luminaires are installed	Pass	Fail
A	LED Suspended Linear	72	☐	☒	24	1728	Storage	○	○
			☐	☐		0		○	○
			☐	☐		0		○	○
			☐	☐		0		○	○
			☐	☐		0		○	○
			☐	☐		0		○	○
			☐	☐		0		○	○
			☐	☐		0		○	○
INSTALLED WATTS PAGE TOTAL:						1728	Enter sum total of all pages into NRCC-LTI-01-E; Page 2		1728

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance — April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING
(SECMRCC-LTI-01-E (Revised 10/16))
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTI-01-E
Indoor Lighting — (Page 6 of 6)
Project Name: Palomar College Storage Buildings - BLDG. 1 — Date Prepared: 10/12/2017

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

Documentation Author Name: Monica Hansen		Documentation Author Signature: Monica Hansen	
Company: Johnson Consulting Engineers		Signature Date: 10/12/2017	
Address: 12875 Brookprinter Place, Suite 300		CEA Certification Identification (if applicable):	
City/State/Zip: Poway, CA 92064		Phone: 858-679-4030	

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Monica Hansen		Responsible Designer Signature: Monica Hansen	
Company: Johnson Consulting Engineers		Date Signed: 10/12/2017	
Address: 12875 Brookprinter Place, Suite 300		License: E14781	
City/State/Zip: Poway, CA 92064		Phone: 858-679-4030	

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance — April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS
(SECMRCC-LTI-02-E (Revised 01/16))
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTI-02-E
Indoor Lighting - Lighting Controls — (Page 1 of 3)
Project Name: Palomar College Storage Buildings - BLDG. 1 — Date Prepared: 10/12/2017

A. Mandatory Lighting Control Declaration Statements (Indicate if the measure applies by checking yes or no below.)

YES	NO	Control Requirements
◉	○	Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with Section 110.9.
◉	○	Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with Section 130.4(b).
○	○	One or more Track Lighting Integral Current Limiters shall be installed which have been certified to the Energy Commission in accordance with §110.9 and §130.0. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b).
◉	○	A Track Lighting Supplementary Overcurrent Protection Panel shall be installed in accordance with Section 110.9 and Section 130.0. Additionally, an Installation Certificate shall be installed in accordance with Section 130.4(b).
◉	○	All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with Section 130.1.
◉	○	All luminaires shall be functionally controlled with manual ON and OFF lighting controls in accordance with Section 130.1(a).
◉	○	General lighting shall be separately controlled from all other lighting systems in an area. Floor and wall display, window display, case display, ornamental, and special effects lighting shall each be separately controlled on circuits that are 20 amps or less. When track lighting is used, general, display, ornamental, and special effects lighting shall each be separately controlled; in accordance with Section 130.1(a)4.
◉	○	The general lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.5 watts per square foot shall meet the multi-level lighting control requirements in accordance with Section 130.1(b).
◉	○	All installed indoor lighting shall be equipped with controls that meet the applicable Shut-OFF control requirements in Section 130.1(c).
◉	○	Lighting in all Daylit Zones shall be controlled in accordance with the requirements in Section 130.1(d) and daylit zones are shown on the plans.
○	○	Lighting power in buildings larger than 10,000 square feet shall be capable of being automatically reduced in response to a Demand Responsive Signal in accordance with Section 130.1(e).
○	○	Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with Section 130.4 (a). The controls required to meet the Acceptance Requirements include automatic daylight controls, automatic shut-OFF controls, and demand responsive controls.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance — January 2016

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS
(SECMRCC-LTI-02-E (Revised 01/16))
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTI-02-E
Indoor Lighting - Lighting Controls — (Page 2 of 3)
Project Name: Palomar College Storage Buildings - BLDG. 1 — Date Prepared: 10/12/2017

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

Documentation Author Name: Monica Hansen		Documentation Author Signature: Monica Hansen	
Company: Johnson Consulting Engineers		Signature Date: 10/12/2017	
Address: 12875 Brookprinter Place, Suite 300		CEA Certification Identification (if applicable):	
City/State/Zip: Poway, CA 92064		Phone: 858-679-4030	

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Monica Hansen		Responsible Designer Signature: Monica Hansen	
Company: Johnson Consulting Engineers		Date Signed: 10/12/2017	
Address: 12875 Brookprinter Place, Suite 300		License: E14781	
City/State/Zip: Poway, CA 92064		Phone: 858-679-4030	

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance — January 2016

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS
(SECMRCC-LTI-02-E (Revised 01/16))
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTI-02-E
Indoor Lighting - Lighting Controls — (Page 3 of 3)
Project Name: Palomar College Storage Buildings - BLDG. 1 — Date Prepared: 10/12/2017

B. Mandatory and Prescriptive Indoor Lighting Control Schedule, PAF Calculation, and Field Inspection Checklist

Lighting Control Schedule			Standards Complying With [1] (✓ all that apply; or leave empty if Exempted)						PAF Credit Calculation [2]			PAF	Field Inspection	
									Wattage Tailored	Daylighting Credit	Occupancy Credit (11 x 12)		Pass	Fail
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
Location in Building	Type/ Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc...)	# of Units	§130.1(a)	§130.1(b)	§130.1(c)	§130.1(d)	§130.1(e)	§130.1(f)						
Storage Building	Occupancy Sensor	4			◉							0	☐	◉ ○
Storage Building	Daylight Sensor	4			◉							0	☐	◉ ○
Storage Building	Dimmer with On and OFF	4	◉	◉								0	☐	◉ ○
												0	☐	○ ○
												0	☐	○ ○
												0	☐	○ ○
												Control Credit PAGE TOTAL (Sum of Column 13):	0	
												IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for all pages HERE (Sum of all Column 13):		
													Enter Control Credit total into NRCC-LTI-01-E; Page	

1. §130.1(a) = Manual area controls; §130.0(b) = Multi Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive; §140.6(d) = Additional lighting controls installed to earn a PAF; §140.6(a) = Prescriptive Secondary Sidelit Daylight Controls.
2. Check Table 140.6-A for correct Factor. PAFs shall not be traded between conditioned and unconditioned spaces. As a condition to earn a PAF, an Installation Certificate is also required to be filled out, signed, and submitted.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance — January 2016

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
(SECMRCC-LTI-03-E (Revised 10/16))
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance — (Page 1 of 4)
Project Name: Palomar College Storage Buildings - BLDG. 1 — Date Prepared: 10/12/2017

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
☒ CONDITIONED spaces ☐ UNCONDITIONED spaces

A. SUMMARY TOTALS OF LIGHTING POWER ALLOWANCES
If using Complete Building Method for compliance, use only the total in column (a) as total allowed building watts.
If using Area Category Method, Tailored Method, or a combination of Area Category and Tailored Method for compliance, use only the total in column (b) as the total allowed building watts

	(a)		(b)
01 Complete Building Method Allowed Watts. Documented in section B of NRCC-LTI-03-E (below on this page)	0		
02 Area Category Method Allowed Watts. Documented in section C-1 of NRCC-LTI-03-E (below on this page)			
03 Tailored Method Allowed Watts. Documented in section A of NRCC-LTI-04-E			
TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRCC-LTI-01, Page 2, Row 1	0		0

☐ Check here if building contains both conditioned and unconditioned areas.

B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE

01 TYPE OF BUILDING (From §140.6 Table 140.6-B)	02 WATTS PER ft²	X	03 COMPLETE BLDG. AREA	=	04 ALLOWED WATTS
					0
Total Area:					0
Total Watts. Enter Total Watts into section A, row 1 (Above on this page)					0

C-1 AREA CATEGORY METHOD TOTAL LIGHTING POWER ALLOWANCES

	Watts
Total from section C-2:	
Total from section C-3:	
Total Watts. Enter Total Watts into section A, row 2 (Above on this page)	0
For Alterations Only – Reduced lighting power option (Total Allowed Watts x 0.85). Enter this value into section A, row 2 if using this option.	

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance — April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
(SECMRCC-LTI-03-E (Revised 10/16))
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance — (Page 2 of 4)
Project Name: Palomar College Storage Buildings - BLDG. 1 — Date Prepared: 10/12/2017

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
☐ CONDITIONED spaces ☐ UNCONDITIONED spaces

C -2 AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE
- Do not include portable lighting for offices. Portable lighting for offices shall be documented only in Section G of NRCC-LTI-01-E.
- Separately list lighting for each primary function area as defined in §100.1 of the Standards.

01 AREA CATEGORY (From §140.6 Table 140.6-C)		02 WATTS PER ft²	X	03 AREA (ft²)	=	04 ALLOWED WATTS
Location in Building	Primary Function Area per Table 140.6-C					
Storage Building	Storage	0.6		2918		1750.8
						0
						0
						0

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 01/16)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 4 of 4)
Project Name: Palomar College Storage Buildings - BLDG. 1	Date Prepared: 10/17/2017

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Monica Hansen	Documentation Author Signature: Monica Hansen		
Company: Johnson Consulting Engineers	Signature Date: 10/12/2017		
Address: 12875 Brookprinter Place, Suite 300	CEA Certification Identification (if applicable):		
City/State/Zip: Poway, CA 92064	Phone: 858-679-4030		

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Monica Hansen	Responsible Designer Signature: Monica Hansen		
Company: Johnson Consulting Engineers	Date Signed: 10/12/2017		
Address: 12875 Brookprinter Place, Suite 300	License: E14781		
City/State/Zip: Poway, CA 92064	Phone: 858-679-4030		

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
CEC-NRCC-LTO-02-E (Revised 08/16)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-02-E
Outdoor Lighting Controls	(Page 1 of 3)
Project Name: Palomar College Storage Buildings - BLDG. 3	Date Prepared: 10/12/2017

A. Mandatory Outdoor Lighting Control Declaration Statements

Check all that apply:

- ☑ Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with §110.9(a).
- ☑ Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An installation Certificate shall be submitted in accordance with §130.4(b).
- ☑ All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with §130.0(d).
- ☐ Part-Night Outdoor Lighting Controls, as defined in Section 100.1(b), shall meet the requirements in Section 110.9(b)5.
- ☐ All outdoor incandescent luminaires rated over 100 watts, determined in accordance with Section 130.0(c), shall be controlled by a motion sensor.
- ☐ All outdoor luminaires rated for use with lamps greater than 150 lamp watts, determined in accordance with Section 130.0(c), shall comply with Uplight and Glare requirements in accordance with Section 130.2(b)
- ☑ All installed outdoor lighting shall be controlled by a photocontrol or outdoor astronomical time-switch control, or other control capable of automatically switching OFF in accordance with Section 130.2(c)1.
- ☑ All installed outdoor lighting shall be circuited and independently controlled from other electrical loads by an automatic scheduling control in accordance with Section 130.2(c)2.
- ☐ All installed outdoor lighting, where the bottom of the luminaire is mounted 24 feet or less above the ground, shall be controlled with automatic lighting controls in accordance with Section 130.2(c)3.
- ☐ For Outdoor Sales Frontage, an automatic lighting control shall be installed in accordance with Section 130.2(c)4.
- ☐ For Building Facade, Ornamental Hardscape and Outdoor Dining lighting, an automatic lighting control shall be installed in accordance with Section 130.2(c)5
- ☐ Before an occupancy permit is granted for the newly constructed Building or for the addition, or for any altered outdoor lighting controls, shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with §130.4.(a). Outdoor lighting controls shall comply with the applicable requirements of Section 130.2(c) and Reference Nonresidential Appendix NA7.8.

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
CEC-NRCC-LTO-02-E (Revised 08/16)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-02-E
Outdoor Lighting Controls	(Page 2 of 3)
Project Name: Palomar College Storage Buildings - BLDG. 3	Date Prepared: 10/12/2017

B. Mandatory Outdoor Lighting Control Schedule and Field Inspection Checklist

Outdoor Lighting Control Schedule			Standards Complying With (✓ all that apply, or leave empty if Exempted)						# of Occupancies	Field Inspection	
									Total # Required		
01	02	03	04	05	06	07	08	09	10	11	
Location and Application of Luminaires being Controlled	Type/ Description of Lighting Control (i.e. outdoor motion sensor, outdoor photocontrol, outdoor astronomical time-switch control, automatic scheduling control, part-night outdoor lighting control)	# of Units	§130.2(c)1	§130.2(c)2	§130.2(c)3	§130.2(c)4	§130.2(c)5	§130.2(c)6		Pass	Fail
Walkway Lighting	Astronomical Time Clock	1	✓	✓	✓	✓	✓	✓		☐	○
										☐	○
										☐	○
										☐	○
										☐	○
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STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
CEC-NRCC-LTO-02-E (Revised 08/16)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-02-E
Outdoor Lighting Controls	(Page 3 of 3)
Project Name: Palomar College Storage Buildings - BLDG. 3	Date Prepared: 10/12/2017

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Monica Hansen	Documentation Author Signature: Monica Hansen		
Company: Johnson Consulting Engineers	Signature Date: 10/12/2017		
Address: 12875 Brookprinter Place, Suite 300	CEA Certification Identification (if applicable):		
City/State/Zip: Poway, CA 92064	Phone: 858-679-4030		

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Monica Hansen	Responsible Designer Signature: Monica Hansen		
Company: Johnson Consulting Engineers	Date Signed: 10/12/2017		
Address: 12875 Brookprinter Place, Suite 300	License: E14781		
City/State/Zip: Poway, CA 92064	Phone: 858-679-4030		

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
CEC-NRCC-LTO-03-E (Revised 01/16)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-03-E
Outdoor Lighting Power Allowances	(Page 1 of 4)
Project Name: Palomar College Storage Buildings - BLDG. 3	Date Prepared: 10/12/2017

A. OUTDOOR LIGHTING POWER ALLOWANCE SUMMARY

1. General Hardscape Lighting Power Allowance (Site Total from Section B of NRCC-LTO-03-E)	1:	655.5
2. Additional Specific "Use it or lose it" Lighting Power Allowances listed in each of these cells shall be identical to total allowed watts determined in Section C-1 to C-4 of NRCC-LTO-03-E.		
3. **Sum Total ALLOWED** Outdoor Lighting Wattage (add rows 1 and 2)	3:	655.5

PER APPLICATION from Section C-1		PER UNIT LENGTH (SALES FRONTAGE) from Section C-2		PER HARDSCAPE AREA (ORNAMENTAL LIGHTING) from Section C-3		PER SPECIFIC AREA from Section C-4.		
0	+	0	+	0	+	0	=	0

B. GENERAL HARDSCAPE LIGHTING POWER ALLOWANCE FROM TABLE 140.7-A

Area Wattage Allowance (AWA)				Linear Wattage Allowance (LWA)			Initial Wattage Allowance (IWA)	Total General Hardscape Lighting Allowance
01	02	03	04	05	06	07	08	09
Name of Area	Illuminated Hardscape Area	AWA Per Square Foot	AWA (02) × (03)	Perimeter Length of General Hardscape	LPA per Linear Foot	LWA (05) × (06)	IWA (Watts)	804 + 807 + 808
Walkway	1333	0.04	53.3	246	0.35	86.1	520	655.5
			0			0		0
			0			0		0
			0			0		0

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS
CEC-NRCC-LTI-01-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 3 of 3)
Project Name: Palomar College Storage Buildings - BLDG. 2	Date Prepared: 10/12/2017

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STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 10/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 1 of 4)
Project Name: Palomar College Storage Buildings - BLDG. 2	Date Prepared: 10/12/2017

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
☐ CONDITIONED spaces ☑ UNCONDITIONED spaces

A. SUMMARY TOTALS OF LIGHTING POWER ALLOWANCES
If using Complete Building Method for compliance, use only the total in column (a) as total allowed building watts.
If using Area Category Method, Tailored Method, or a combination of Area Category and Tailored Method for compliance, use only the total in column (b) as the total allowed building watts

	(a)	(b)
01 Complete Building Method Allowed Watts. Documented in section B of NRCC-LTI-03-E (below on this page)	0	
02 Area Category Method Allowed Watts. Documented in section C-1 of NRCC-LTI-03-E (below on this page)		
03 Tailored Method Allowed Watts. Documented in section A of NRCC-LTI-04-E		
TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRCC-LTI-01, Page 2, Row 1	0	0

☐ Check here if building contains both conditioned and unconditioned areas.

B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE

01 TYPE OF BUILDING (From §140.6 Table 140.6-B)	02 WATTS PER ft²	X	03 COMPLETE BLDG. AREA	=	04 ALLOWED WATTS
					0
Total Area					
Total Watts. Enter Total Watts into section A, row 1 (Above on this page)					0

C-1 AREA CATEGORY METHOD TOTAL LIGHTING POWER ALLOWANCES

	Watts
Total from section C-2	
Total from section C-3	
Total Watts. Enter Total Watts into section A, row 2 (Above on this page)	0
For Alterations Only – Reduced lighting power option (Total Allowed Watts x 0.85). Enter this value into section A, row 2 if using this option.	

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 10/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 2 of 4)
Project Name: Palomar College Storage Buildings - BLDG. 2	Date Prepared: 10/12/2017

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C -2 AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE
- Do not include portable lighting for offices. Portable lighting for offices shall be documented only in Section G of NRCC-LTI-01-E.
- Separately list lighting for each primary function area as defined in §100.1 of the Standards.

01 AREA CATEGORY (From §140.6 Table 140.6-C)		02 WATTS PER ft²	X	03 AREA (ft²)	=	04 ALLOWED WATTS
Location In Building	Primary Function Area per Table 140.6-C					
Storage Building	Storage	0.6		2171		1305
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
				TOTALS		2171
Enter sum total Area Category allowed watts into section C-1 of NRCC-LTI-03-E (this compliance document)						1305
						WATTS

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 10/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 3 of 4)
Project Name: Palomar College Storage Buildings - BLDG. 2	Date Prepared: 10/12/2017

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☑ CONDITIONED spaces ☐ UNCONDITIONED spaces

C-3 AREA CATEGORY METHOD ADDITIONAL LIGHTING WATTAGE ALLOWANCE (from Table 140.6-C Footnotes)

01 Primary Function	02 Sq Ft or Linear ft	03 Additional Watts Allowed	04 Wattage Allowance (02 x 03)	05 Description(s) and Quantity of Special Luminaire Types in each Primary Function Area	06 Total Design Watts	07 ALLOWED WATTS Smaller of 04 or 06
			0			
			0			
			0			

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/18) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 1 of 6)
Project Name: Palomar College Storage Buildings - BLDG. 3	Date Prepared: 10/12/2017

A. General Information

Climate Zone: 10 — Conditioned Floor Area: 3918 — Unconditioned Floor Area:

Building Type:	☐ Nonresidential	☐ High-Rise Residential	☐ Hotel/Motel		
☑ Schools	☐ Relocatable Public Schools	☐ Condiitioned Spaces	☐ Unconditioned Spaces		
Phase of Construction:	☑ New Construction	☐ Addition	☐ Alteration		
Method of Compliance:	☐ Complete Building	☑ Area Category	☐ Tailored		

Project Address: 1140 W Mission Rd, San Marcos, CA 92069

B. Lighting Compliance Documents (select yes for each document included)

For detailed instruction on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

YES	NO	COMP. DOC.	TITLE
◉	○	NRCC-LTI-01-E	Certificate of Compliance. All Pages required on plans for all submittals.
◉	○	NRCC-LTI-02-E	Lighting Controls, Certificate of Compliance, and PAF Calculation. All Pages required on plans for all submittals.
◉	○	NRCC-LTI-03-E	Indoor Lighting Power Allowance
○	◉	NRCC-LTI-04-E	Tailored Method Worksheets
○	◉	NRCC-LTI-05-E	Line Voltage Track Lighting Worksheets
○	◉	NRCC-LTI-06-E	Indoor Lighting Existing Conditions

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-02-E (Revised 04/18) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 2 of 6)
Project Name: Palomar College Storage Buildings - BLDG. 3	Date Prepared: 10/12/2017

C. Summary of Allowed Lighting Power

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
01	Installed Lighting NRCC-LTI-01-E, Table M, page 5	+		Installed Lighting NRCC-LTI-01-E, Table N, page 5	+	2592
02	Portable Only for Offices NRCC-LTI-01-E, Table G, page 4	+				
03	Minus Lighting Control Credits NRCC-LTI-02-E, page 2	-		Minus Lighting Control Credits NRCC-LTI-02-E, page 2	-	
04	Adjusted Installed Lighting Power (row 1 plus row 2 minus row 3)	=	0	Adjusted Installed Lighting Power (row 1 minus row 3)	=	2592
	Complies ONLY if Installed ≤ Allowed (Box 04 < Box 05)			Complies ONLY if Installed ≤ Allowed (Box 04 < Box 05)		
05	Allowed Lighting Power Conditioned NRCC-LTI-03-E, page 1. Alterations with replacement luminaires that have at least 50/35%lower power compared to the original existing luminaires, may instead use the allowed wattage from NRCC-LTI-06, page 2			Allowed Lighting Power Unconditioned NRCC-LTI-03-E, page 1. Alterations with replacement luminaires that have at least 50/35% lower power compared to the original existing luminaires, may instead use the allowed wattage from NRCC-LTI-06, page 2		3501.6

D. Declaration of Required Certificates of Installation

Declare by selecting yes for all of the Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	Form/Title	
◉	○	NRCI-LTI-01-E - Must be submitted for all buildings	☐ Field Inspector
○	○	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐ Field Inspector
○	○	NRCI-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance.	☐ Field Inspector
○	○	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	☐ Field Inspector
○	○	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐ Field Inspector
○	○	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐ Field Inspector

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-03-E (Revised 04/18) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 3 of 6)
Project Name: Palomar College Storage Buildings - BLDG. 3	Date Prepared: 10/12/2017

E. Declaration of Required Certificates of Acceptance

Declare by selecting yes for all of the Certificates of Acceptance that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	FORM/TITLE	
○	○	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐ Field Inspector
○	○	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐ Field Inspector
○	○	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐ Field Inspector
○	○	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF).	

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**

F. Indoor Lighting Schedule and Field Inspection Energy Checklist

- ☐ The actual indoor lighting power listed on the next 2 pages includes all installed permanent and planned portable lighting systems.
- ☐ When Complete Building Method is used for compliance, list each different type of luminaire on separate lines.
- ☐ When Area Category Method or Tailored Method is used for compliance, list each different type of luminaire by each different function area on separate lines
- ☐ Also include track lighting in schedule, and submit the track lighting compliance document (NRCC-LTI-05-E) when line-voltage track lighting is installed.

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-04-E (Revised 04/18) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 4 of 6)
Project Name: Palomar College Storage Buildings - BLDG. 3	Date Prepared: 10/12/2017

G. Installed Portable Luminaires in Offices – Exception to Section 140.6(a)

- This section shall be filled out ONLY for portable luminaires in offices (As defined in §100.1). All other planned portable luminaires shall be documented on next page of this compliance document.
- This section is used to determine if greater than 0.3 watts of portable lighting is planned for any office
- Fill out a separate line for each different office. Small offices that are typical (having the same general and portable lighting) may be grouped together. This allowance shall not be traded between offices having different lighting systems.

Office Portable Luminaire Schedule			Office Installed Portable Luminaire W/ft²						Office Location	Field Inspector	
01	02	03	04	05	06	07	08	09		10	
Complete Luminaire Description (i.e., LED, under cabinet, furniture mounted direct/indirect)	Watts per Luminaire	Luminaires (number)	Installed portable luminaire watts in this office (G02 x G03)	Square feet of area	Watts per square foot (G04 / G05)	If G06 ≤ 0.3, enter zero; If G06 > 0.3, (G06-0.3)	(G05 x G07)	Identify Office area in which these portable luminaires are installed	Pass	Fail
			0				0		○	○
			0				0		○	○
			0				0		○	○
			0				0		○	○
			0				0		○	○
			0				0		○	○
Total installed portable luminaire watts that are greater than 0.3 W/ft² per office:								Enter sum total of all pages into NRCC-LTI-01-E; Page 2		

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/18) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 5 of 6)
Project Name: Palomar College Storage Buildings - BLDG. 3	Date Prepared: 10/12/2017

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H. Indoor Lighting Schedule and Field Inspection Energy Checklist

Luminaire Schedule			Installed Watts				Location		Field Inspector[1]	
01	02		03	04		05	06	07	08	
Name or Item Tag	Complete Luminaire Description (i.e., 5 lamp fluorescent troffer, FS2T8, one dimmable electronic ballast)		Watts per Luminaire	How wattage was determined: CEC-Default from Std.	How wattage was determined: According to §130.0(c)	Number Luminaires	Total Installed Watts (G03 x G05)	Primary Function area in which these luminaires are located	Pass	Fail
A	LED Suspended Linear		72	☐	☑	36	2592	Fabrication	○	○
				☐	☐		0		○	○
				☐	☐		0		○	○
				☐	☐		0		○	○
				☐	☐		0		○	○
				☐	☐		0		○	○
				☐	☐		0		○	○
INSTALLED WATTS PAGE TOTAL:							2592	Enter sum total of all pages into NRCC-LTI-01-E; Page 2	2592	

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/18) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 6 of 6)
Project Name: Palomar College Storage Buildings - BLDG. 3	Date Prepared: 10/12/2017

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INDOOR LIGHTING – LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 03/18) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 1 of 3)
Project Name: Palomar College Storage Buildings - BLDG. 3	Date Prepared: 10/12/2017

A. Mandatory Lighting Control Declaration Statements (indicate if the measure applies by checking yes or no below.)

YES	NO	Control Requirements
◉	○	Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with Section 110.9.
◉	○	Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with Section 130.4(b).
○	○	One or more Track Lighting Integral Current Limiters shall be installed which have been certified to the Energy Commission in accordance with §110.9 and §130.0. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b)
○	○	A Track Lighting Supplementary Overcurrent Protection Panel shall be installed in accordance with Section 130.9 and Section 130.0. Additionally, an installation Certificate shall be installed in accordance with Section 130.4(b).
◉	○	All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with Section 130.1.
◉	○	All luminaires shall be functionally controlled with manual ON and OFF lighting controls in accordance with Section 130.1(a).
◉	○	General lighting shall be separately controlled from all other lighting systems in an area. Floor and wall display, window display, case display, ornamental, and special effects lighting shall each be separately controlled on circuits that are 20 amps or less. When track lighting is used, general, display, ornamental, and special effects lighting shall each be separately controlled; in accordance with Section 130.1(a)4.
◉	○	The general lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.5 watts per square foot shall meet the multi-level lighting control requirements in accordance with Section 130.1(b).
◉	○	All installed indoor lighting shall be equipped with controls that meet the applicable Shut-OFF control requirements in Section 130.1(c).
◉	○	Lighting in all Daylit Zones shall be controlled in accordance with the requirements in Section 130.1(d) and daylit zones are shown on the plans.
○	○	Lighting power in buildings larger than 10,000 square feet shall be capable of being automatically reduced in response to a Demand Responsive Signal in accordance with Section 130.1(e).
○	○	Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with Section 120.4 (a). The controls required to meet the Acceptance Requirements include automatic daylight controls, automatic shut-OFF controls, and demand responsive controls.

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 03/18) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 2 of 3)
Project Name: Palomar College Storage Buildings - BLDG. 3	Date Prepared: 10/12/2017

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B. Mandatory and Prescriptive Indoor Lighting Control Schedule, PAF Calculation, and Field Inspection Checklist

Lighting Control Schedule		Standards Complying With [1] (✓ all that apply, or leave empty if Exempted)								PAF Credit Calculation [2]			Field Inspector ✓ Acceptance	
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
Location in Building	Type/ Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc..)	# of Units	§130.1(a)1	§130.1(a)2	§130.1(a)3	§130.1(a)4	§140.6(a)2	§140.6(a)3	§140.6(a)4	Area Controlled by Control (ft²)	PAF	Credit (Col. 11 x Col. 12)	Pass	Fail
Fabrication Building	Occupancy Sensor	4	☐	☐	✱	☐	☐	☐	☐			0	☐	○ ○
Fabrication Building	Daylight Sensor	4	☐	☐	☐	✱	☐	☐	☐			0	☐	○ ○
Fabrication Building	Dimmer with On and OFF	4	✱	✱	☐	☐	☐	☐	☐			0	☐	○ ○
			☐	☐	☐	☐	☐	☐	☐			0	☐	○ ○
			☐	☐	☐	☐	☐	☐	☐			0	☐	○ ○
			☐	☐	☐	☐	☐	☐	☐			0	☐	○ ○
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												0		
Control Credit PAGE TOTAL (Sum of Column 13):												0		
IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for all pages HERE (Sum of all Column 13):												0		
												Enter Control Credit total into NRCC-LTI-01-E; Page 1.		

1. §130.1(a) = Manual area controls; §130.1(b) = Multi Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive; §140.6(a) = Additional lighting controls installed to earn a PAF; §140.6(a) = Prescriptive Secondary Juliet Daylight Controls.
2. Check Table 140.6-A for correct Factor. PAFs shall not be traded between conditioned and unconditioned spaces. As a condition to earn a PAF, an Installation Certificate is also required to be filled out, signed, and submitted.

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 03/18) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 3 of 3)
Project Name: Palomar College Storage Buildings - BLDG. 3	Date Prepared: 10/12/2017

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Monica Hansen	Documentation Author Signature:	Monica Hansen
Company:	Johnson Consulting Engineers	Signature Date:	10/12/2017
Address:	12875 Brookprinter Place, Suite 300	CEA Certification Identification (if applicable):	E14781
City/State/Zip:	Poway, CA 92064	Phone:	858-679-4030

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Monica Hansen	Responsible Designer Signature:	Monica Hansen
Company:	Johnson Consulting Engineers	Date Signed:	10/12/2017
Address:	12875 Brookprinter Place, Suite 300	License:	E14781
City/State/Zip:	Poway, CA 92064	Phone:	858-679-4030

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/18) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 1 of 4)
Project Name: Palomar College Storage Buildings - BLDG. 3	Date Prepared: 10/12/2017

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
☐ CONDITIONED spaces ☑ UNCONDITIONED spaces

A. SUMMARY TOTALS OF LIGHTING POWER ALLOWANCES

If using Complete Building Method for compliance, use only the total in column (a) as total allowed building watts.
If using Area Category Method, Tailored Method, or a combination of Area Category and Tailored Method for compliance, use only the total in column (b) as the total allowed building watts

	(a)	(b)
01 Complete Building Method Allowed Watts. Documented in section B of NRCC-LTI-03-E (below on this page)	0	
02 Area Category Method Allowed Watts. Documented in section C-1 of NRCC-LTI-03-E (below on this page)		
03 Tailored Method Allowed Watts. Documented in section A of NRCC-LTI-04-E		
TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRCC-LTI-01, Page 2, Row 1	0	0

☐ Check here if building contains both conditioned and unconditioned areas.

B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE

01	02		03		04
TYPE OF BUILDING (From §140.6 Table 140.6-B)	WATTS PER ft²	X	COMPLETE BLDG. AREA	=	ALLOWED WATTS
					0
Total Area					
Total Watts. Enter Total Watts into section A, row 1 (Above or this page)					0

C-1 AREA CATEGORY METHOD TOTAL LIGHTING POWER ALLOWANCES

	Watts
Total from section C-2	
Total from section C-3	
Total Watts. Enter Total Watts into section A, row 2 (Above on this page).	0
For Alterations Only – Reduced lighting power option (Total Allowed Watts x 0.85). Enter this value into section A, row 2 if using this option.	

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/18) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 2 of 4)
Project Name: Palomar College Storage Buildings - BLDG. 3	Date Prepared: 10/12/2017

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
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C-2 AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE

- Do not include portable lighting for offices. Portable lighting for offices shall be documented only in Section G of NRCC-LTI-01-E.
- Separately list lighting for each primary function area as defined in §100.1 of the Standards.

01		02	03		04
AREA CATEGORY (From §140.6 Table 140.6-C)		WATTS PER ft²	AREA (ft²)	=	ALLOWED WATTS
Location in Building	Primary Function Area per Table 140.6-C				
Fabrication Building	Precision Commercial Work	1.2	2918		3501.6
					0
					0
					0
					0
					0
					0
					0
					0
					0
					0
					0
					0
					0
					0
					0
					0
					0
					0
		TOTALS	2918		
Enter sum total Area Category allowed watts into section C-1 of NRCC-LTI-03-E (this compliance document)					3501.6 WATTS

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/18) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 3 of 4)
Project Name: Palomar College Storage Buildings - BLDG. 3	Date Prepared: 10/12/2017

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
☑ CONDITIONED spaces ☑ UNCONDITIONED spaces

C-3 AREA CATEGORY METHOD ADDITIONAL LIGHTING WATTAGE ALLOWANCE (from Table 140.6-C Footnotes)

01	03	04	05	06	07
Primary Function	Sq Ft or Linear ft [1]	Additional Watts Allowed	Wattage Allowance (02 x 03)	Description(s) and Quantity of Special Luminaire Types in each Primary Function Area	Total Design Watts [2]	ALLOWED WATTS Smaller of 04 or 06
			0			0
			0			0
			0			0

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTG-01-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTG-01-E
Outdoor Lighting	(Page 4 of 4)

Project Name: Palomar College Storage Buildings - BLDG. 3 — Date Prepared: 10/12/2017

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Monica Hansen	Documentation Author Signature: Monica Hansen
Company: Johnson Consulting Engineers	Signature Date: 10/12/2017
Address: 12875 Brookprinter Place, Suite 300	CEA Certification Identification (if applicable):
City/State/Zip: Poway, CA 92064	Phone: 858-679-4030

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Company: Johnson Consulting Engineers	Date Signed: 10/12/2017
Address: 12875 Brookprinter Place, Suite 300	License: E14781
City/State/Zip: Poway, CA 92064	Phone: 858-679-4030

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
CEC-NRCC-LTG-02-E (Revised 08/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTG-02-E
Outdoor Lighting Controls	(Page 1 of 3)

Project Name: Palomar College Storage Buildings - BLDG. 3 — Date Prepared: 10/12/2017

A. Mandatory Outdoor Lighting Control Declaration Statements

Check all that apply:

- ☑ Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with §110.9(a).
- ☑ Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with §130.4(b).
- ☑ All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with §130.0(d).
- ☐ Part-Night Outdoor Lighting Controls, as defined in Section 100.1(b), shall meet the requirements in Section 110.9(b)5.
- ☐ All outdoor incandescent luminaires rated over 100 watts, determined in accordance with Section 130.0(c), shall be controlled by a motion sensor.
- ☐ All outdoor luminaires rated for use with lamps greater than 150 lamp watts, determined in accordance with Section 130.0(c), shall comply with Uplight and Glare requirements in accordance with Section 130.2(b)
- ☑ All installed outdoor lighting shall be controlled by a photocontrol or outdoor astronomical time-switch control, or other control capable of automatically switching OFF in accordance with Section 130.2(j)1.
- ☑ All installed outdoor lighting shall be circuited and independently controlled from other electrical loads by an automatic scheduling control in accordance with Section 130.2(c)2.
- ☐ All installed outdoor lighting, where the bottoms of the luminaire is mounted 24 feet or less above the ground, shall be controlled with automatic lighting controls in accordance with Section 130.2(c)3.
- ☐ For Outdoor Sales Frontage, an automatic lighting control shall be installed in accordance with Section 130.2(c)4.
- ☐ For Building Facade, Ornamental Hardscape and Outdoor Dining lighting, an automatic lighting control shall be installed in accordance with Section 130.2(c)5
- ☐ Before an occupancy permit is granted for the newly constructed building or for the addition, or for any altered outdoor lighting controls, shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with §130.4 (a). Outdoor lighting controls shall comply with the applicable requirements of Section 130.2(c) and Reference Nonresidential Appendix NA7.8.

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
CEC-NRCC-LTG-02-E (Revised 08/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTG-02-E
Outdoor Lighting Controls	(Page 2 of 3)

Project Name: Palomar College Storage Buildings - BLDG. 3 — Date Prepared: 10/12/2017

B. Mandatory Outdoor Lighting Control Schedule and Field Inspection Checklist

Outdoor Lighting Control Schedule			Standards Complying With (✓ all that apply, or leave empty if Exempted)						Field Inspected ✓ if Corrected	Passed Inspection	
01	02	03	04	05	06	07	08	09	10	11	
Location and Application of Luminaires Being Controlled	Type/ Description of Lighting Control (i.e. outdoor motion sensor, outdoor photocontrol, outdoor astronomical time-switch control, automatic scheduling control, part-night outdoor lighting control)	# of Units	§130.2(a)1	§130.2(a)2	§130.2(a)3	§130.2(a)4	§130.2(a)5			Pass	Fail
Walkway Lighting	Astronomical Time Clock	1	✓	✓	✓	✓	✓	✓	☐	○	○
									☐	○	○
									☐	○	○
									☐	○	○
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STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
CEC-NRCC-LTG-02-E (Revised 08/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTG-02-E
Outdoor Lighting Controls	(Page 3 of 3)

Project Name: Palomar College Storage Buildings - BLDG. 3 — Date Prepared: 10/12/2017

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STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
CEC-NRCC-LTG-03-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTG-03-E
Outdoor Lighting Power Allowances	(Page 1 of 4)

Project Name: Palomar College Storage Buildings - BLDG. 3 — Date Prepared: 10/12/2017

A. OUTDOOR LIGHTING POWER ALLOWANCE SUMMARY

1. General Hardscape Lighting Power Allowance (Site Total from Section B of NRCC-LTG-03-E)							1.	699.62
2. Additional Specific "use it or lose it" Lighting Power Allowances listed in each of these cells shall be identical to total allowed watts determined in Section C-1 to C-4 of NRCC-LTG-03-E.								
PER APPLICATION from Section C-1		PER UNIT LENGTH (LINEAR FRONTAGE) from Section C-2		PER HARDSCAPE AREA (ORNAMENTAL LIGHTING) from Section C-3		PER SPECIFIC AREA from Section C-4.		
0	+	0	+	0	+	0	=	2. 0
3. Sum Total ALLOWED Outdoor Lighting Wattage (add rows 1 and 2)							3.	699.62

B. GENERAL HARDSCAPE LIGHTING POWER ALLOWANCE FROM TABLE 140.7-A

Area Wattage Allowance (AWA)				Linear Wattage Allowance (LWA)				Initial Wattage Allowance (IWA)	Total General Hardscape Lighting Allowance
01	02	03	04	05	06	07	08	09	09
Name of Area	Illuminated Hardscape Area	AWA Per Square Foot	AWA (02) x (03)	Perimetral Length of General Hardscape	LPA per Linear Foot	LWA (05) x (06)		IWA (Watts)	04 + 07 + 08
Walkway	1743	0.04	69.72	314	0.35	109.9		520	699.62
			0			0		0	0
			0			0		0	0
			0			0		0	0

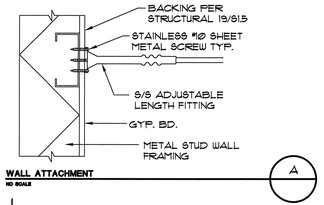
LIGHTING FIXTURE SCHEDULE

Mark	Approved Manufacturer's (See Key Note No.1)	Catalog Series Type (See Key Note No.2)	FIXTURE: Incandescent	Fluorescent	Metal Halide	High pressuresodium	Low pressuresodium	LED	Volts	Lamp Watts / Fixture Watts	LAMP: NO.	Type	MOUNTING: Recessed / Ceiling	Surface / Ceiling	Wall	Recessed / Wall	Chain	Surface / Wall	Pole	Description
A	LITHONIA LIGHTING	ZL2N SERIES	☐	☐	☐	☐	☐	■	■ 120	72w		LED	☐	☐	☐	■	☐	☐	☐	48"X3-3/8" STRIP LED FIXTURE. 5000 LUMENS. 4000K COLOR TEMP. 90 CRI, WHITE. AIRCRAFT CABLE HUNG. MOUNT 12'-0" ABOVE FINISH FLOOR.
	.	OR EQUAL							☐ 208											
	.	.							☐ 277	.										
	.	.							☐ 480											
	.	.																		☐ Provide emergency ballast Type 'EM' ☐ Provide custom color finish, to be selected at time of submittal ☐ See detail
B	RAB LIGHTING	SLIM26	☐	☐	☐	☐	☐	■	■ 120	26w		LED	☐	■	☐	☐	☐	☐	☐	SLIM WALL MOUNTED WET LOCATION RATED FIXTURE. BRONZE FINISH DARK SKY APPROVED. TEMPERED GLASS LENS. "NO EQUAL"
	.	NO EQUAL							☐ 208											
	.	.							☐ 277	.										
	.	.							☐ 480											
	.	.																		☐ Provide emergency ballast Type 'EM' ☐ Provide custom color finish, to be selected at time of submittal ☐ See detail

LIGHTING FIXTURE SCHEDULE NOTES:

KEY NOTES

1. ALTERNATE MANUFACTURER'S TO THOSE SPECIFIED MAY BE SUBMITTED FOR APPROVAL. ALTERNATE MANUFACTURER'S MUST MEET THE MINIMUM CRITERIA INDICATED IN THE DESCRIPTION AND OPTIONS COLUMNS OF THIS SCHEDULE, AND MUST BE EQUAL TO THE SPECIFIED FIXTURE AS DETERMINED BY THE SPECIFYING ENGINEER. (ALTERNATE FIXTURES MUST BE APPROVED PRIOR TO BID, ALLOW 72 HOURS FOR ENGINEER REVIEW AND APPROVED.) WHERE NO KNOWN EQUAL IS INDICATED THE FIXTURE DOES NOT HAVE AN EQUAL TO MEET THE PROJECT REQUIREMENTS, AND ALTERNATE SELECTIONS WILL NOT BE ACCEPTED.
2. COMPLETE CATALOG NUMBERS HAVE NOT BEEN PROVIDED, REFERENCE THE DESCRIPTION AND OPTIONS COLUMNS OF THIS SCHEDULE FOR COMPLETE FIXTURE REQUIREMENTS.



WALL ATTACHMENT
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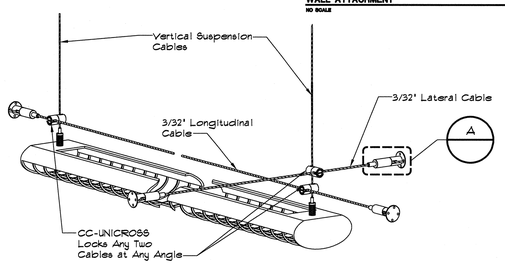
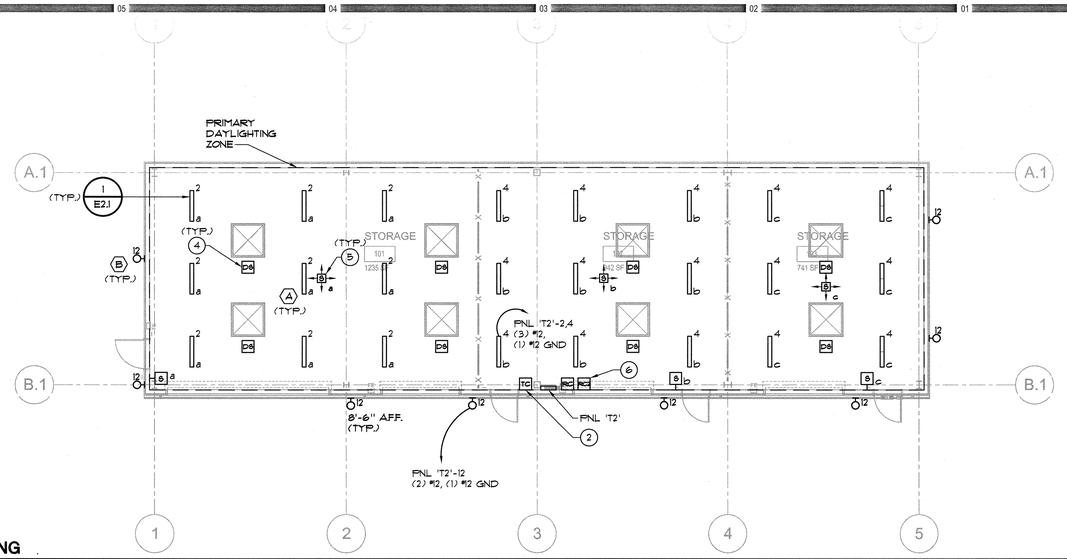
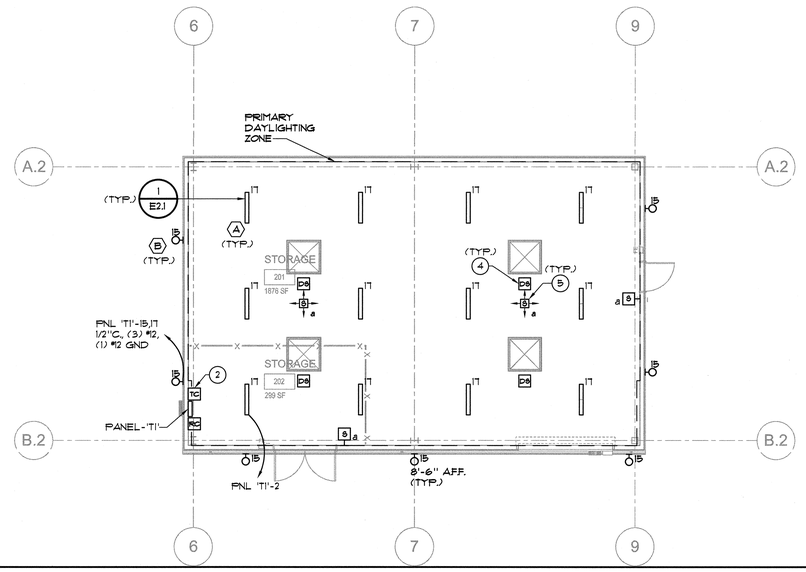


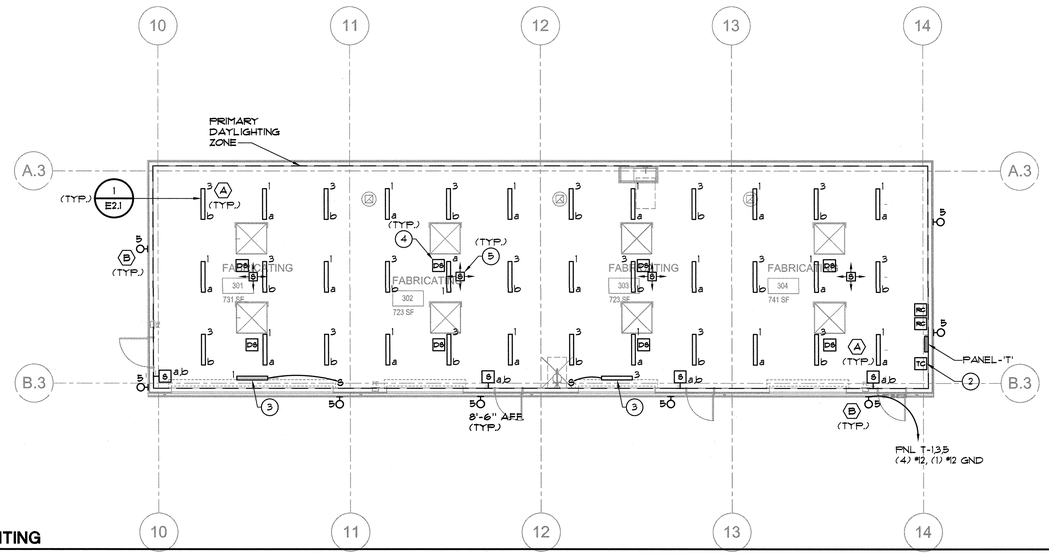
PENDANT HUNG FIXTURE SEISMIC RESTRAINT
NO SCALE — 1 / E2.1



BLDG. 1 FLOOR PLAN - LIGHTING
1/8" = 1'-0"



BLDG. 2 FLOOR PLAN - LIGHTING
1/8" = 1'-0"



BLDG. 3 FLOOR PLAN - LIGHTING
1/8" = 1'-0"

HMC Architects
3546 Concours Street / Ontario, CA 91764
T 909 989 9979 / www.hmcarchitects.com

SM

GENERAL NOTES:

1. REFERENCE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES.
2. REFERENCE E2 SERIES SHEETS FOR ALL FIXTURE TYPES AND FOR TYPICAL DETAILS.
3. LETTERS IN OR ADJACENT TO EACH FIXTURE OR FIXTURE ROW INDICATES SWITCH AND OR OCCUPANCY SENSOR WHICH CONTROLS THE LIGHTING FIXTURE.
4. CIRCUIT HOMERUNS ARE INDICATED TO SHOW THE LOCATION AND NUMBER OF CIRCUITS TO BE GROUPED TOGETHER.
5. PROVIDE MINIMUM 1/2" CONDUIT AND #2 CIRCUIT CONDUCTORS AS REQUIRED TO CONNECT EACH LIGHTING FIXTURES TO THEIR INDICATED CONTROL DEVICES. (U.O.N.)

KEY NOTES:

1. SEE ARCHITECTURAL PLANS FOR MOUNTING HEIGHT.
2. PROVIDE PROGRAMMABLE TIME CLOCK TO CONTROL ALL EXTERIOR LIGHTING.
3. PROVIDE SEPARATE SWITCHING FOR THIS TASK LIGHTING.
4. MOUNT DAY LIGHT SENSOR 6" FROM LOW SIDE OF SKYLIGHT. (TYPICAL)
5. MOUNT SENSOR AT 11'-6" ABOVE FINISHED FLOOR.
6. RC1 TO CONTROL ZONE 'a', RC2 TO CONTROL ZONES 'b' & 'c' SEPARATELY.

JOHNSON CONSULTING ENGINEERS, INC.
Power | Lighting | Multimedia
Communications | Data Networking
12875 Brookprinter Place, Suite 300
Poway, CA 92064
P 858.679.4030 | F 858.513.0559
www.jce-inc.com

REGISTERED PROFESSIONAL ENGINEER — No. E 14781 Exp. 6-30-2019 — ELECTRICAL — STATE OF CALIFORNIA

#15047 — 10/16/2017

Key Plan

Consultant Seal

Agency Approval — FILE NO. 37-C1
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 04-115420
ACS 3L FLS 42 SSS 43
DATE OCT 18 2017

Project Title

PALOMAR COLLEGE® Learning for Success

PALOMAR
NEW STORAGE BUILDINGS
1140 W. MISSION RD.,
SAN MARCOS, CA 92069
(760) 744-1150

No.	Description	Date

Drawing Title:
BLDG. 1, 2 & 3 FLOOR PLANS
LIGHTING

Architect's Seal — LICENSED ARCHITECT KENNETH SALTER NO. C-19082 REN. 11-30-19 STATE OF CALIFORNIA

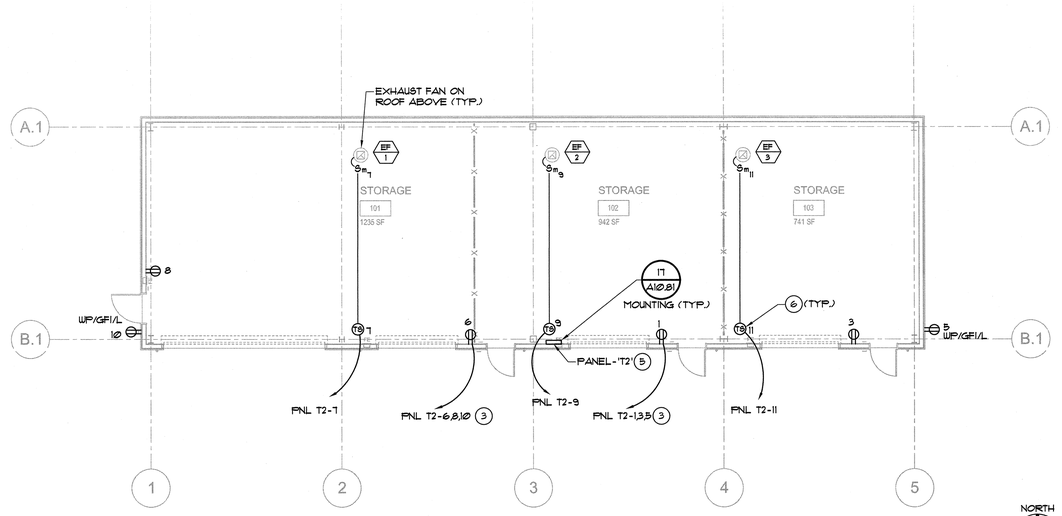
Designed:	DSG	Project No.	3324002
Drawn:	DRW	Scale:	1/8" = 1'-0"
QAQC	CHK	Drawing No.	E2.1
Date:	10/18/2017		

DSA APPROVAL

PLEASE RECYCLE

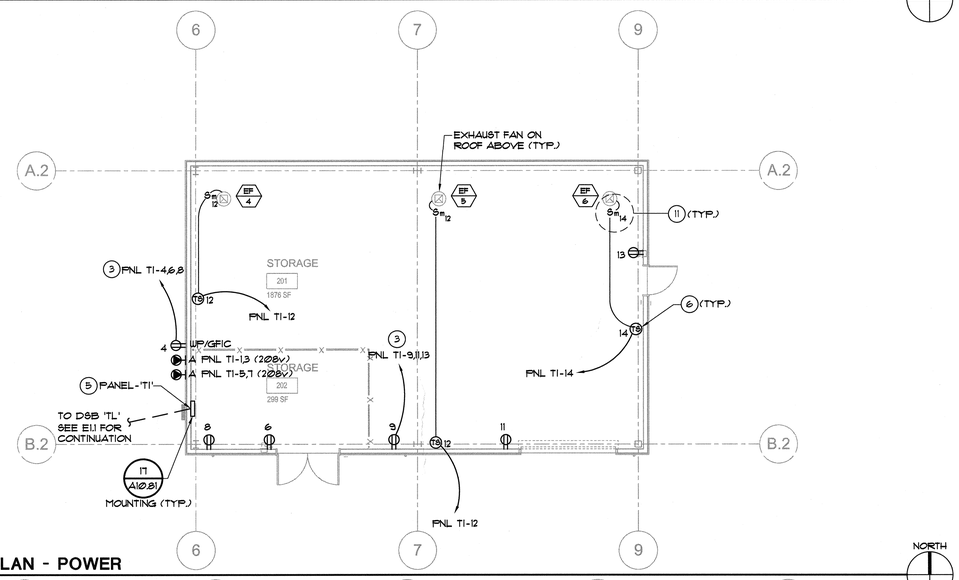
N:\projects\Projects\3324 Cerritos Community College District\000218-CAD\3324 CCCI\Revit\3324002_Central.rvt

01 January, 2000



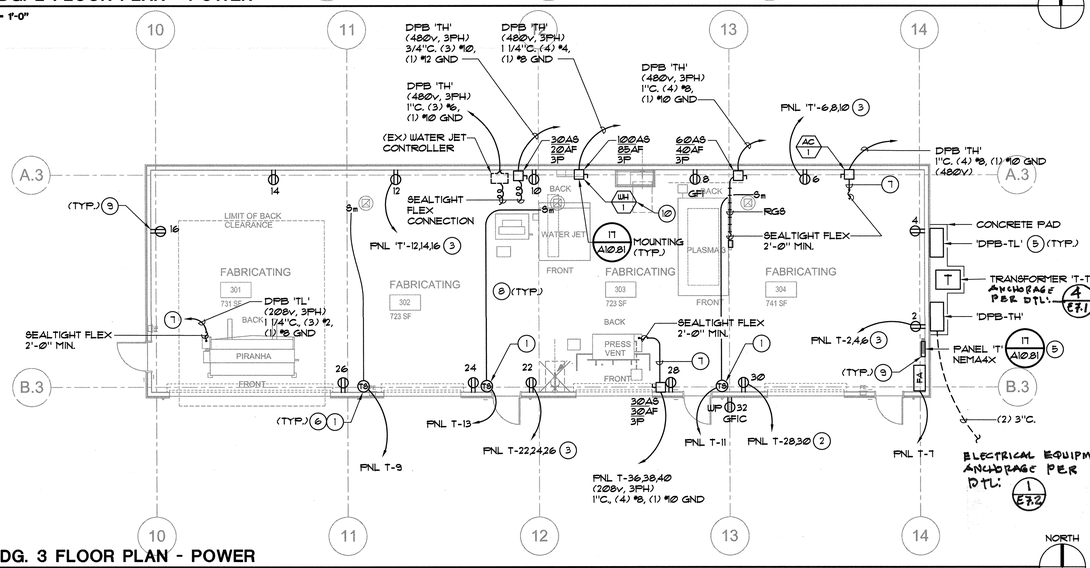
BLDG. 1 FLOOR PLAN - POWER

1/8" = 1'-0"



BLDG. 2 FLOOR PLAN - POWER

1/8" = 1'-0"



BLDG. 3 FLOOR PLAN - POWER

1/8" = 1'-0"

NORTH

HMC Architects

3546 Concours Street / Ontario, CA 91764
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SM

GENERAL NOTES:

1. REFERENCE ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT LOCATION OF ALL WALL MOUNTED POWER DEVICES WHERE INDICATED AT MOUNTING HEIGHTS OTHER THAN +18".
2. REFERENCE E3 SERIES SHEETS FOR TYPICAL CONDUIT AND BACKBOX INSTALLATION DETAILS.
3. NUMBERS ADJACENT TO EACH POWER DEVICE INDICATES THE CIRCUIT NUMBER TO WHICH THE DEVICE IS TO BE CONNECTED.
4. CIRCUIT HOMERUNS ARE INDICATED TO SHOW THE LOCATION AND NUMBER OF CIRCUITS TO BE GROUPED TOGETHER.
5. PROVIDE MINIMUM 1/2" CONDUIT AND #12 CIRCUIT CONDUCTORS AS REQUIRED TO CONNECT EACH POWER DEVICE TO THEIR INDICATED CIRCUIT (U.O.N.).
6. FIELD VERIFY EXACT ROUTING LOCATION FOR CONCEALED CONDUITS AND RECEPTACLES PRIOR TO ROUGH-IN.

KEY NOTES:

1. FIELD VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
2. 2 #12 (HOT), 1 #10 (NEUTRAL), 1 #12 (GND), 1/2"C.
3. 3 #12 (HOT), 1 #10 (NEUTRAL), 1 #12 (GND), 1/2"C.
4. 4 #12 (HOT), 2 #10 (NEUTRAL), 1 #12 (GND), 3/4"C.
5. SEE E1.1 FOR CONDUIT AND FEEDER SIZES.
6. PROVIDE LINE VOLTAGE T-STAT. MARKEL MODEL ET9-SRT9 OR EQUAL.
7. PROVIDE RIGID GALVANIZED STEEL CONDUIT TO THIS EQUIPMENT. ROUTE CONDUIT UP TO CEILING. PROVIDE UNISTRUT SUPPORT EVERY 8' ON CENTER.
8. ALL EXPOSED CONDUIT TO EQUIPMENT SHALL BE RIGID GALVANIZED STEEL. (NO EXCEPTIONS.)
9. ALL EXPOSED CONDUIT BELOW 8'-0" SHALL BE RIGID GALVANIZED STEEL. (NO EXCEPTIONS.)
10. PROVIDE FUSED DISCONNECT FOR WATER HEATER. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
11. MOUNT MOTOR RATED SWITCH ON UNIT. NEMA 3R ENCLOSURE. TYPICAL ALL BUILDING EXHAUST FANS.

REGISTERED PROFESSIONAL ENGINEER
No. E 14781
Exp. 6-30-2019
ELECTRICAL
STATE OF CALIFORNIA

JOHNSON CONSULTING ENGINEERS, INC.
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#15047 10/16/2017

Key Plan

Consultant Seal

Agency Approval FILE NO. 37-C1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 04-115420
ACS FLS SSS
DATE OCT 18 2017

Project Title

PALOMAR COLLEGE
Learning for Success

PALOMAR
NEW STORAGE BUILDINGS
1140 W. MISSION RD.,
SAN MARCOS, CA 92069
(760) 744-1150

No.	Description	Date

Drawing Title:

BLDG. 1, 2 & 3 FLOOR PLANS
POWER

Architect's Seal

LICENSED ARCHITECT
KENNETH SALTER
NO. C-19082
REN. 11-30-17
STATE OF CALIFORNIA

Designed:	DSG	Project No.	3324002
Drawn:	DRW	Scale:	1/8" = 1'-0"
QAQC	CHK	Drawing No.	E3.1
Date:	10/18/2017		

DSA APPROVAL

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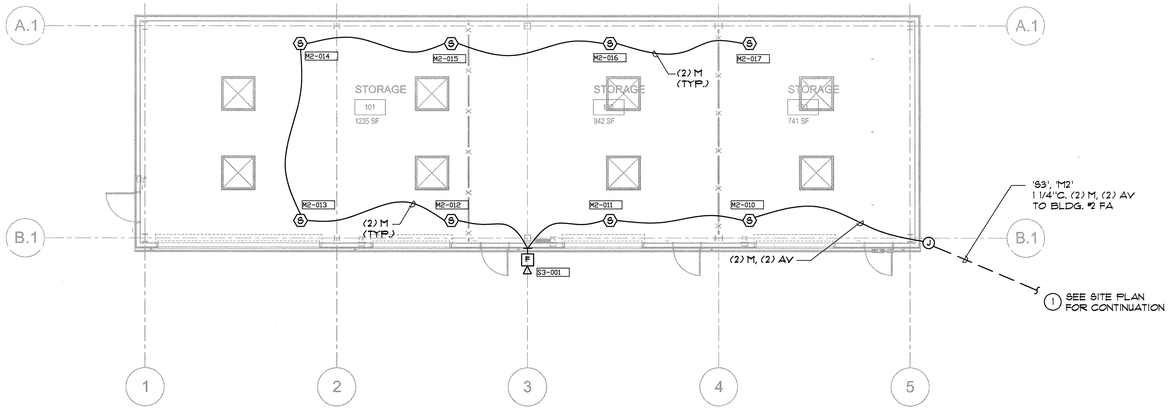
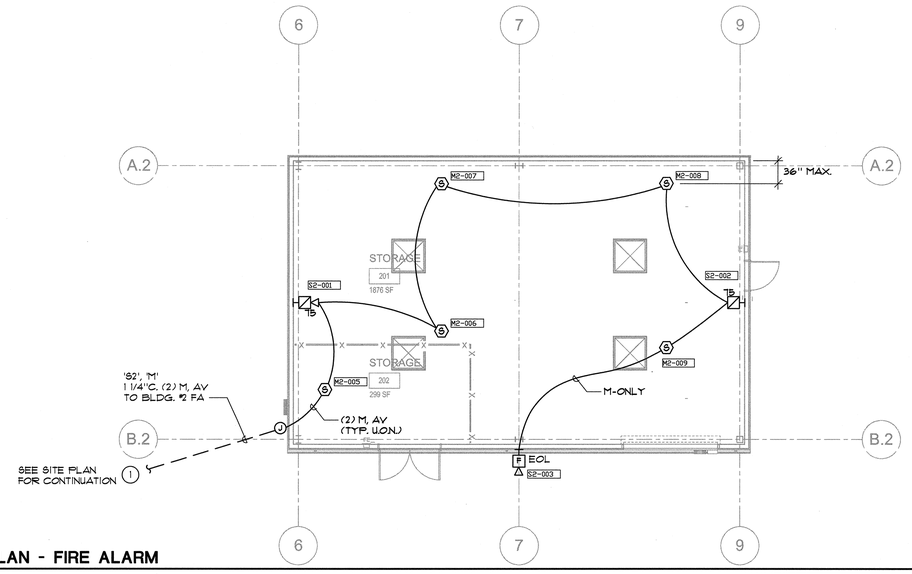


BLDG. 1 FLOOR PLAN - FIRE ALARM

1/8" = 1'-0"

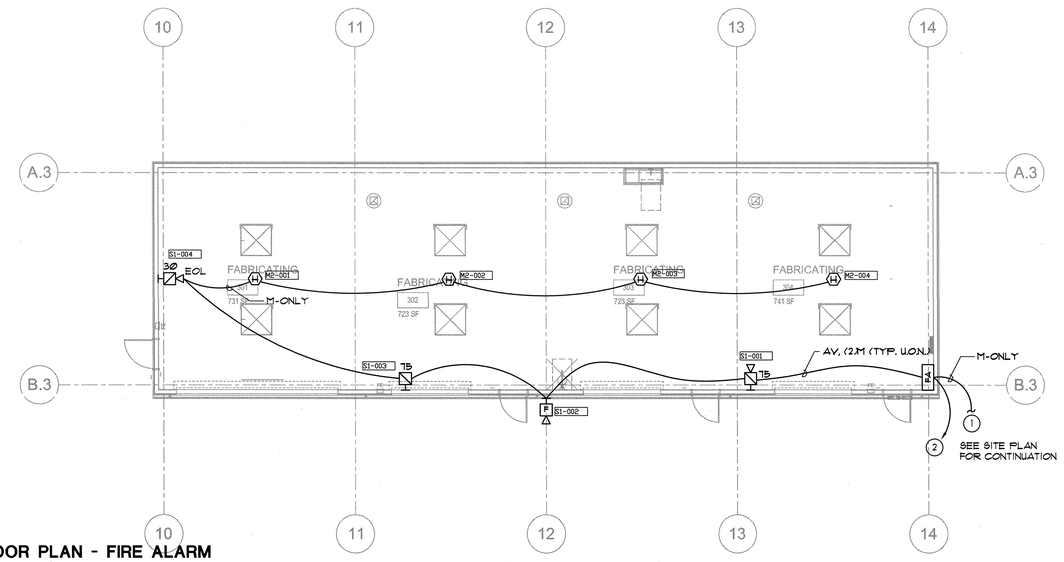
NORTH



BLDG. 2 FLOOR PLAN - FIRE ALARM

1/8" = 1'-0"

NORTH



BLDG. 3 FLOOR PLAN - FIRE ALARM

1/8" = 1'-0"

NORTH

FIRE ALARM SYMBOL LEGENDS

- S1 / T5 — WALL MOUNTED FLASHING LIGHT STROBE MOUNTED +80"-96" A.F.F. OR 6" BELOW CEILING TO BOTTOM OF DEVICE WHICHEVER IS LOWER. ENTIRE LENS MUST BE WITHIN THE +80'-96' DIMENSION. (T5 = STROBE CANDELA RATING) (S1 = SIGNAL CIRCUIT IDENTIFICATION)
- S1 / T5 — WALL MOUNTED FLASHING LIGHT STROBE MOUNTED +80"-96" A.F.F. OR 6" BELOW CEILING TO BOTTOM OF DEVICE WHICHEVER IS LOWER. ENTIRE LENS MUST BE WITHIN THE +80'-96' DIMENSION. (T5 = STROBE CANDELA RATING) (S1 = SIGNAL CIRCUIT IDENTIFICATION)
- S1 / F — WALL MOUNTED WEATHERPROOF EXTERIOR HORN MOUNTED +80" A.F.F. TO BOTTOM OF DEVICE (S1 = SIGNAL CIRCUIT IDENTIFICATION)
- S — CEILING MOUNTED SMOKE DETECTOR
- H — CEILING MOUNTED HEAT DETECTOR
- FA — REMOTE FIRE ALARM POWER EXTENDER
- EOL — END OF LINE RESISTOR

FIRE ALARM NOTE:
THIS FIRE ALARM DESIGN IS A COMPLETE PLAN SUBMITTAL IN ACCORDANCE WITH 2010 CBC 907.1.

FULLY AUTOMATIC FIRE ALARM DESIGN:
THIS PROJECT IS DESIGNED TO COMPLY WITH ALL REQUIREMENTS FOR A FULLY PROTECTED AUTOMATIC FIRE ALARM SYSTEM.

EXPANSION OF EXISTING SYSTEM:
THIS PROJECT ADDS TO AND OR MODIFIES AN EXISTING SYSTEM, PREVIOUSLY APPROVED BY DSA. ALL NEW COMPONENTS ARE COMPATIBLE WITH THE EXISTING SYSTEM EQUIPMENT.

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SM

GENERAL NOTES:

1. REFERENCE ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT LOCATION OF ALL WALL MOUNTED DEVICES.
2. REFERENCE E5 SHEETS FOR TYPICAL CONDUIT AND BACKBOX INSTALLATION DETAILS.
3. REFERENCE RISER DIAGRAMS FOR TYPICAL CONDUIT SIZES AND INITIATION ZONE CIRCUIT IDENTIFICATIONS.
4. UNLESS OTHERWISE NOTED SOLID LINES BETWEEN DEVICES SHALL BE 3/4" E.M.T. ROUTED CONCEALED ABOVE CEILINGS OR IN WALLS. DASHED LINES INDICATE 3/4" P.V.C. UNDERGROUND CONDUIT. ALL WIRING TO BE PROVIDED PER MANUFACTURER SHOP DRAWINGS.
5. PROVIDE WIRE PROTECTIVE GUARD OVER ALL FIRE ALARM DEVICES LOCATED IN THE FOLLOWING AREAS: GYMNASIUM, LOCKER ROOMS, SHOP AREAS, AND ANY OTHER AREA WHERE DEVICES MAY BE SUBJECT TO CONTACT.

KEY NOTES:

1. PROVIDE CONNECTION TO 'FACP', REFER TO SITE PLAN SHEET E1.1

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#5047 — 10/13/2017

Key Plan

Consultant Seal

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No.	Description	Date

Drawing Title:
BLDG. 1, 2 & 3 FLOOR PLANS
FIRE ALARM

Architect's Seal

LICENSED ARCHITECT — KENNETH SALYER — NO. C-19082 — REN. 11-30-17 — STATE OF CALIFORNIA

Designed:	DSG	Project No.	3324002
Drawn:	DRW	Scale:	1/8" = 1'-0"
QAQC	CHK	Drawing No.	E5.1
Date:	10/18/2017		

DSA APPROVAL

PLEASE RECYCLE

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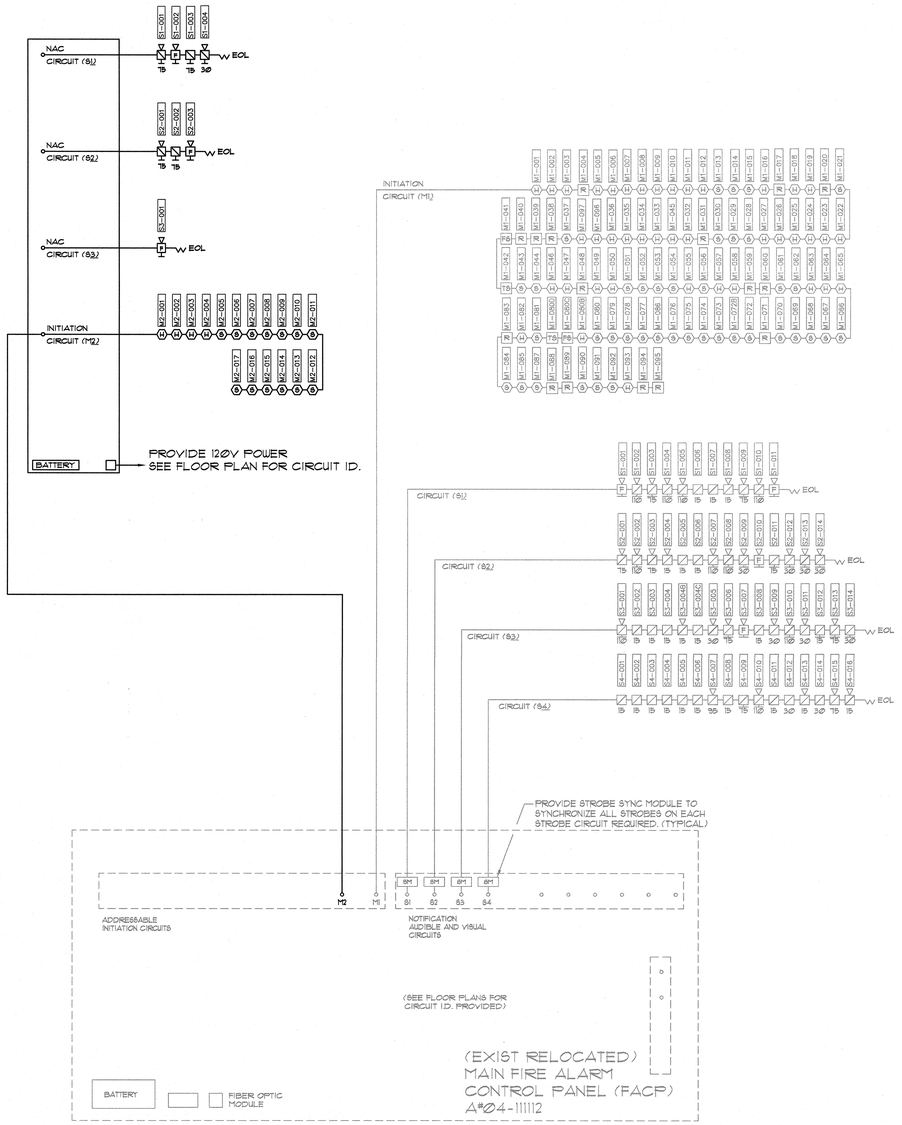
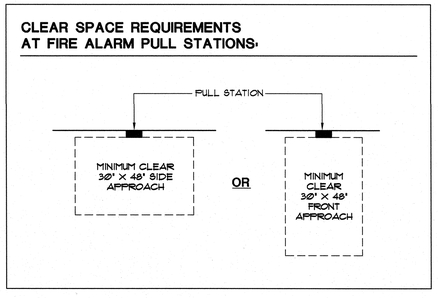


FIRE ALARM RISER DIAGRAM

NO SCALE

CLEAR SPACE REQUIREMENTS AT FIRE ALARM PULL STATIONS:



(EX) SIEMENS MODEL MXL

SYM	MODEL NO.	DESCRIPTION	C.S.F.M. LISTING	MFG.
FACP	MXL	(EXISTING) FIRE ALARM CONTROL PANEL	7165-0065:0144	SIEMENS
PA	PAD-3	REMOTE POWER SUPPLY	7300-0067: 221	SIEMENS
DSM	DSM 12/24-R	WHEELOCK SYNC MODULE	7300-0785:132	WHEELOCK
	VARIES	BATTERIES	N/A	SIEMENS
MS	MS-501	MANUAL PULL STATION - ADDRESSABLE	7150-0067:036	SIEMENS
S	FP-11	INTELLIGENT SMOKE DETECTOR	7272-0067:203	SIEMENS
	DB-11	SENSOR BASE	7300-0067:134	SIEMENS
H	FPT-11	INTELLIGENT HEAT DETECTOR	7270-0067:202	SIEMENS
	DB-11	SENSOR BASE	7300-0067:134	SIEMENS
FS	WFD	WATERFLOW SWITCH	7770-1653:114	SYSTEM SENSOR
TS	PIBV2	TAMPER SWITCH	7770-1653:118	SYSTEM SENSOR
H/SR	LHSR	HORN/STROBE (15/30/75/110) cd	7125-0785:0169	WHEELOCK
SR	AS-24MCC	HORN/STROBE (15/30/75/95) cd (CEILING MOUNTED)	7125-0785:131	WHEELOCK
H/P/SR	AH-24WP-R	EXTERIOR HORN	7125-0785:131	WHEELOCK
	WFP	EXTERIOR FLUSH PLATE (PART OF ABOVE)		WHEELOCK
P/SR	RSS-24MCW	STROBE (15/30/75/110) cd	7125-0785:141	WHEELOCK
SR	LST	STROBE (15/30/75/95) cd (CEILING MOUNTED)	7125-0785:0169	WHEELOCK
M	TRI-M6M	ADDRESSABLE MONITOR MODULE	7165-0067: 0146	SIEMENS
R	TRI-R	RELAY MODULE - ADDRESSABLE	7165-0067:0146	SIEMENS
RIC	RIC-1	120 VOLT RELAY MODULE	7300-1004:101	AP&C INC
~	TYPE FPL	SIGNAL LINE CIRCUIT CONDUCTORS ('M')	7161-0859:101	WEST PENN
~	TYPE THHN	AUDIO VISUAL AND POWER CONDUCTORS (AV,P)	N/A	SOUTHWIRE

FIRE ALARM SEQUENCE OF OPERATION

ACTION \ DEVICE	MANUAL PULL STATION	AREA SMOKE/HEAT DETECTOR	AC POWER FAILURE	SPRINKLER ACTIVATION TAMPER SW.	SPRINKLER ACTIVATION FLOW SW.
SOUND ALARM TROUGHOUT BLDG.	N/A	YES	NO	N/A	N/A
ACTIVATE RELAY FOR MONITORING	N/A	YES	YES	N/A	N/A
ANNUNCIATE AT PANEL AND ANNUNCIATOR	N/A	YES	YES	N/A	N/A
SOUND TROUBLE BUZZER	N/A	ON WIRING FAULT	YES	N/A	N/A
SOUND SPRINKLER BELL	N/A	NO	NO	N/A	N/A
REPORT TO MONITORING STATION	N/A	YES	YES	N/A	N/A
INITIATE SHUTDOWN OF HVAC UNITS	N/A	YES	NO	N/A	N/A

ANNUNCIATOR ZONE SCHEDULE

	ROOM SMOKE OR HEAT DETECTORS	ABOVE CEILING HEAT DETECTORS	MANUAL PULL STATIONS	DUCT DETECTORS	SPRINKLER SYSTEM	TROUBLE INDICATION
BLDG. T	YES	N/A	YES	N/A	N/A	YES

NOTES:

1. ALL SMOKE DETECTORS, HEAT DETECTORS ABOVE CEILING DETECTORS, DUCT DETECTORS MANUAL PULL STATIONS, FLOW SWITCHES, TAMPER SWITCHES SHALL BE INDIVIDUALLY ADDRESSABLE.
2. PROVIDE (1) ANNUNCIATOR WHICH WILL PROVIDE LED LIGHT INDICATORS TO IDENTIFY THE ABOVE ZONE SCHEDULE (IN ADDITION TO ANNUNCIATOR NOTED IN NOTE # 3).
3. PROVIDE (1) 32 CHARACTER BACK-LIGHTED ALPHA-NUMERIC DISPLAY ANNUNCIATOR WITH KEYPAD FOR OPERATOR CONTROL, PROGRAMMING AND TESTING.

WIRING SCHEDULE

DES	CONDUCTOR TYPE	WIRE COLOR	CIRCUIT TYPE
M	(1) 1 PR #14 TWSTED SHIELDED	RED/BLACK/SHIELD	SIGNAL LINE CIRCUIT
AV	(2) #12 THHN	BLUE/WHITE	NOTIFICATION APP. CIRCUIT (NAC)
P	(2) #12 THHN	RED/BLACK	POWER

Building 3
Remote Extender Panel
Supplementary Notification Appliance Circuit Battery Calculations

Standby Amperage: Type of Device Or Equipment	Qty	Current	Total
Extender Panel (PAD-3)	1	0.006	0.006
Dual Sync Module	1	0.035	0.035
Exterior Horn	3	0.000	0.000
15cd Horn/Strobe	0	0.000	0.000
30cd Horn/Strobe	1	0.000	0.000
75cd Horn/Strobe	2	0.000	0.000
110cd Horn/Strobe	0	0.000	0.000
15cd Horn/Strobe (Ceiling)	0	0.000	0.000
30cd Horn/Strobe (Ceiling)	0	0.000	0.000
75cd Horn/Strobe (Ceiling)	0	0.000	0.000
95cd Horn/Strobe (Ceiling)	0	0.000	0.000
15cd Strobe Only	0	0.000	0.000
30cd Strobe Only	0	0.000	0.000
75cd Strobe Only	2	0.000	0.000
110cd Strobe Only	0	0.000	0.000
15cd Strobe Only (Ceiling)	0	0.000	0.000
30cd Strobe Only (Ceiling)	0	0.000	0.000
75cd Strobe Only (Ceiling)	0	0.000	0.000
95cd Strobe Only (Ceiling)	0	0.000	0.000
Total Standby Amperage			**0.041**

Alarm Amperage: Quantity	Current	Total
1	0.006	0.006
1	0.035	0.035
3	0.080	0.340
0	0.040	0.000
1	0.046	0.046
2	0.125	0.250
0	0.219	0.000
0	0.097	0.000
0	0.120	0.000
0	0.161	0.000
0	0.202	0.000
0	0.030	0.000
0	0.040	0.000
2	0.115	0.230
0	0.200	0.000
0	0.045	0.000
0	0.072	0.000
0	0.128	0.000
0	0.171	0.000
Total Alarm Amperage		**0.807**

Standby Time Required

24 Hours x Total Standby Amperage	=	24 x 0.041	=	0.984	Amp Hours

Alarm Time Required

249 (5 Min.) x Total Alarm Amperage =		249 x 0.807	=	0.201	Amp Hours
		Total Required	=	**1.185**	Amp Hours
		Minimum Battery Amp Hour Required	=	**7**	Amp Hours

Fire Alarm Voltage Drop Calculations

Calculation Formula:

Total Current x Feet x 21.6 (Voltage Drop)
Circular Mills

Voltage Drop / 24 Volts x 100 Percent = Percentage Voltage Drop

Circular Mils Using #10 w ire =10380
Circular Mils Using #12 w ire = 6530
Circular Mils Using #14 w ire = 4110
Circular Mils Using #18 w ire = 1620

Building 1

Circuit I.D.	Device Type	Devices x Current		Total Current	Distance In Feet	Circular Mils	=	Total Voltage Dropped: Volts Dropped	=	% Volts Dropped
S:5	Exterior Horn	2	0.080	0.160						
	Sync Module	0	0.035	0.000						
	15cd Horn / Strobe	0	0.040	0.000						
	30cd Horn / Strobe	0	0.046	0.000						
	75cd Horn / Strobe	0	0.125	0.000						
	110cd Horn / Strobe	0	0.219	0.000						
	15cd Horn / ST (Ceiling)	0	0.097	0.000						
	30cd Horn / ST (Ceiling)	0	0.120	0.000						
	75cd Horn / ST (Ceiling)	0	0.161	0.000						
	95cd Horn / ST (Ceiling)	0	0.202	0.000						
	15cd Strobe	0	0.030	0.000						
	30cd Strobe	0	0.040	0.000						
	75cd Strobe	0	0.115	0.000						
	110cd Strobe	0	0.200	0.000						
	15cd Strobe (Ceiling)	0	0.045	0.000						
	30cd Strobe (Ceiling)	0	0.072	0.000						
	75cd Strobe (Ceiling)	0	0.128	0.000						
	95cd Strobe (Ceiling)	0	0.171	0.000						
			Total	0.160	300	4110	=	0.252	=	**1.05%**

FIRE ALARM MONITORING NOTE:

1. AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AS AMENDED BY ARTICLE 91. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUJS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER.

FIRE ALARM GENERAL REQUIREMENTS:

1. THE COMPLETE INSTALLATION SHALL BE REVIEWED AND APPROVED BY THE ABOVE LOCAL MANUFACTURERS REPRESENTATIVE. SEE SPECIFICATIONS (16721), FOR ADDITIONAL CONTRACTOR QUALIFICATIONS AND REQUIREMENTS.
2. UNLESS OTHERWISE NOTED SOLID LINES BETWEEN DEVICES SHALL BE 3/4" E.M.T. ROUTED CONCEALED ABOVE CEILINGS OR IN WALLS. DASHED LINES INDICATE 3/4" P.V.C. UNDERGROUND CONDUIT. ALL WIRING TYPES AND QUANITITES SHOWN ARE FOR INFORMATION ONLY. THE CONTRACTOR SHALL PROVIDE ALL WIRING AS REQUIRED TO MAKE A FULLY OPERATIONAL SYSTEM. SHOP DRAWINGS AND OR AS-BUILT DOCUMENTS SHALL INDICATE ALL WIRING PROVIDED.
3. THE AUDIBILITY OF FIRE ALARM WARNING DEVICES SHALL BE AUDIBLE THROUGH THE OCCUPANCY WITH A MINIMAL SOUND LEVEL 15 db's OVER THE AMBIENT NOISE LEVEL. ADD ADDITIONAL DEVICES AS REQUIRED.
4. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE PERFORMED IN THE PRESENCE OF THE ENFORCING AGENCY AND IN ACCORDANCE WITH SPECIFICATIONS (16721). THE CONTRACTOR SHALL FURNISH db METERS AND ALL OTHER EQUIPMENT TO PERFORM THESE TESTS.
5. ALL CONDUIT PENETRATIONS THROUGH FIRE RATED PARTITIONS SHALL PREVENT THE PASSAGE OF HEAT, SMOKE AND FIRE GASES. ALL PENETRATIONS SHALL COMPLY WITH UL ASSEMBLY UL-1001. REFER TO THROUGH-PENETRATION FIRESTOP DETAIL ON THE DETAIL SHEET.
6. ALL OPERATING HARDWARE AT INITIATING DEVICES SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST, AND THE FORCE REQUIRED TO OPERATE SHALL BE LESS THAN 5 POUNDS.

APPLICABLE CODES

2013 BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24 C.C.R).

2013 CALIFORNIA BUILDING CODE (PART 2, TITLE 24 C.C.R).
(2012 INTERNATIONAL BUILDING CODE WITH 2013 CALIFORNIA AMENDMENTS)

2013 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24 CCR)
(2011 NATIONAL ELECTRICAL CODE AND 2013 CALIFORNIA AMENDMENTS)

2013 CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24, CCR)
(2012 UNIFORM MECHANICAL CODE WITH 2013 CALIFORNIA AMENDMENTS)

2013 CALIFORNIA PLUMBING CODE (PART 5, TITLE 24, CCR)
(2012 UNIFORM PLUMBING CODE AND 2013 CALIFORNIA AMENDMENTS)

2013 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR)

2013 CALIFORNIA FIRE CODE (PART 9, TITLE 24, CCR)
(2015 INTERNATIONAL FIRE CODE AND 2015 CALIFORNIA AMENDMENTS)

2013 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN),
PART 11, TITLE 24 C.C.R.

2013 CALIFORNIA REFERENCED STANDARDS (PART 12, TITLE 24, CCR)

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

APPLICABLE STANDARDS

NFPA 13	AUTOMATIC SPRINKLER SYSTEMS	2013 EDITION
NFPA 14	STANDPIPE SYSTEMS (CA AMENDED)	2013 EDITION
NFPA 17A	WEST CHEMICAL SYSTEMS	2013 EDITION
NFPA 20	STATIONARY PUMPS	2013 EDITION
NFPA 24	PRIVATE FIRE MAINS (CA AMENDED)	2013 EDITION
NFPA 72	NATIONAL FIRE ALARM CODE (CA AMENDED)	2013 EDITION
NFPA 80	FIRE DOOR AND OTHER OPENING PROTECTIVES	2013 EDITION
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2013 EDITION

REFERENCE CODE SECTION FOR NFPA STANDARDS - 2013 CBC (SFM) CHAPTER 35.
SEE CHAPTER FOR STATE OF CALIFORNIA AMENDMENTS TO NFPA STANDARDS.

MAXIMUM NUMBER OF CONDUCTORS IN TRADE SIZES OF CONDUIT OR TUBING MINIMUM CONDUIT SIZE FOR THIS PROJECT IS 3/4"

CONDUIT TRADE SIZE (INCHES)		1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5
TYPE LETTERS	CONDUCTOR SIZE AWG, kcmil											
THWN	14	13	24	39	69	94	154	264				
	12	10	18	29	51	70	114					
THHN	10	8	11	18	32	44	73	104	160			
	8	3	5	9	16	22	36	51	79	106	136	

TRADE SIZE	INTERNAL DIAMETER INCHES	AREA—SQUARE INCHES: 100% INCHES	PERCENT REDUCTION PER NUMBER OF 18AWG TWISTED SHIELD PAIRS: OVER 2 CONDUCTORS 40%	1	2	3	4	5	6	7	8
1/2	.622	.30	.12	38%	66%	99%	X	X	X	X	X
3/4	.824	.53	.21	19%	38%	57%	76%	95%	X	X	X
1	1.049	.86	.34	12%	24%	36%	48%	60%	72%	84%	96%
1 1/4	1.380	1.50	.60	7%	14%	21%	28%	35%	42%	49%	56%
1 1/2	1.610	2.04	.82	5%	10%	15%	20%	25%	30%	35%	40%
2	2.067	3.36	1.34	3%	6%	9%	12%	15%	18%	21%	24%

Building 2

Circuit I.D.	Device Type	Devices x Current		Total Current	Distance In Feet	Circular Mils	=	Total Voltage Dropped: Volts Dropped	=	% Volts Dropped
S:2	Exterior Horn	1	0.080	0.080						
	Sync Module	0	0.035	0.000						
	15cd Horn / Strobe	0	0.04	0.000						
	30cd Horn / Strobe	0	0.046	0.000						
	75cd Horn / Strobe	1	0.125	0.125						
	110cd Horn / Strobe	0	0.219	0.000						
	15cd Horn / ST (Ceiling)	1	0.097	0.097						
	30cd Horn / ST (Ceiling)	0	0.12	0.000						
	75cd Horn / ST (Ceiling)	0	0.161	0.000						
	95cd Horn / ST (Ceiling)	0	0.202	0.000						
	15cd Strobe	0	0.030	0.000						
	30cd Strobe	0	0.04	0.000						
	75cd Strobe	1	0.115	0.115						
	110cd Strobe	0	0.200	0.000						
	15cd Strobe (Ceiling)	0	0.045	0.000						
	30cd Strobe (Ceiling)	0	0.072	0.000						
	75cd Strobe (Ceiling)	0	0.128	0.000						
	95cd Strobe (Ceiling)	0	0.171	0.000						
			Total	0.417	350	6530	=	0.483	=	**2.01%**

Building 3

Circuit I.D.	Device Type	Devices x Current		Total Current	Distance In Feet	Circular Mils	=	Total Voltage Dropped: Volts Dropped	=	% Volts Dropped
S:1	Exterior Horn	1	0.080	0.080						
	Sync Module	0	0.035	0.000						
	15cd Horn / Strobe	0	0.04	0.000						
	30cd Horn / Strobe	1	0.046	0.046						
	75cd Horn / Strobe	1	0.125	0.125						
	110cd Horn / Strobe	0	0.219	0.000						
	15cd Horn / ST (Ceiling)	0	0.097	0.000						
	30cd Horn / ST (Ceiling)	0	0.120	0.000						
	75cd Horn / ST (Ceiling)	0	0.161	0.000						
	95cd Horn / ST (Ceiling)	0	0.202	0.000						
	15cd Strobe	0	0.030	0.000						
	30cd Strobe	0	0.040	0.000						
	75cd Strobe	1	0.115	0.115						
	110cd Strobe	0	0.200	0.000						
	15cd Strobe (Ceiling)	0	0.045	0.000						
	30cd Strobe (Ceiling)	0	0.072	0.000						
	75cd Strobe (Ceiling)	0	0.128	0.000						
	95cd Strobe (Ceiling)	0	0.171	0.000						
			Total	0.368	290	4110	=	0.558	=	**2.32%**

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REGISTERED PROFESSIONAL ENGINEER — No. E 14781 — Exp. 6-30-2019 — ELECTRICAL — STATE OF CALIFORNIA

*5047 10/18/2017

Key Plan

Consultant Seal

Agency Approval FILE NO. 37-C1
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 04-115420
ACS ST FLS 42 SSS 14
DATE OCT 18 2017

Project Title
PALOMAR COLLEGE — Learning for Success
PALOMAR
NEW STORAGE BUILDINGS
1140 W. MISSION RD.,
SAN MARCOS, CA 92069
(760) 744-1150

No.	Description	Date

Drawing Title:
FIRE ALARM SCHEDULE & RISER

Architect's Seal
LICENSED ARCHITECT — KENNETH A. CALVERT — No. C-19082 — REN 11-30-17 — STATE OF CALIFORNIA

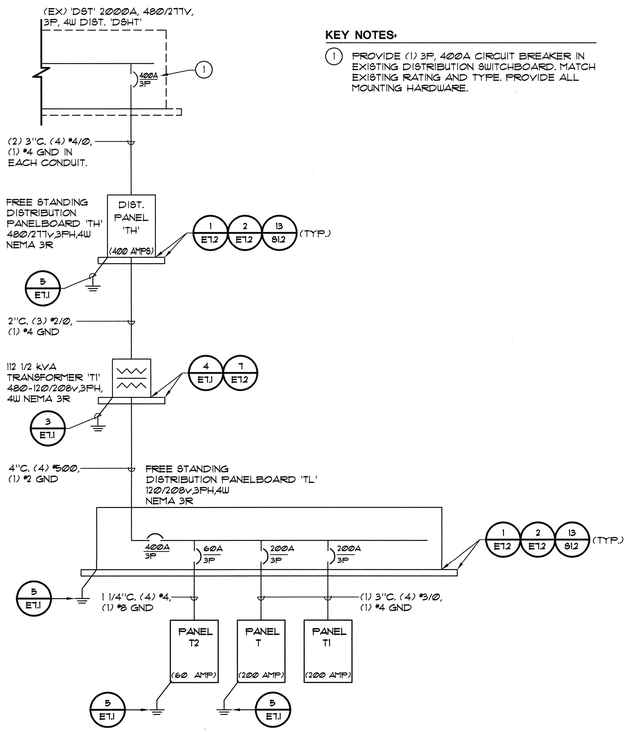
Designed:	DSG	Project No.	3324002
Drawn:	DRW	Scale:	1/8" = 1'-0"
QA/QC	CHK	Drawing No.	E5.2
Date:	10/18/2017		

DSA APPROVAL

PLEASE RECYCLE

N:\projects\Projects\3324 Cerritos Community College District\00218-CAD\3324 CCC\Revit\3324002_Central.rvt

01 January, 2000



KEY NOTES:

1. PROVIDE (1) 3P, 400A CIRCUIT BREAKER IN EXISTING DISTRIBUTION SWITCHBOARD. MATCH EXISTING RATING AND TYPE. PROVIDE ALL MOUNTING HARDWARE.

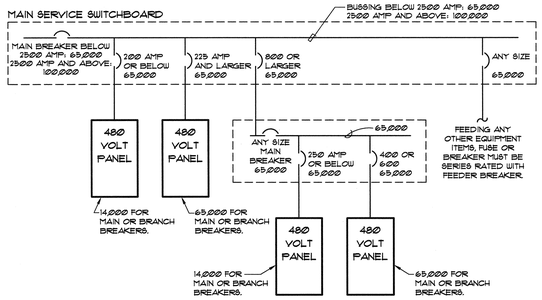
ELECTRICAL ONE-LINE DIAGRAM

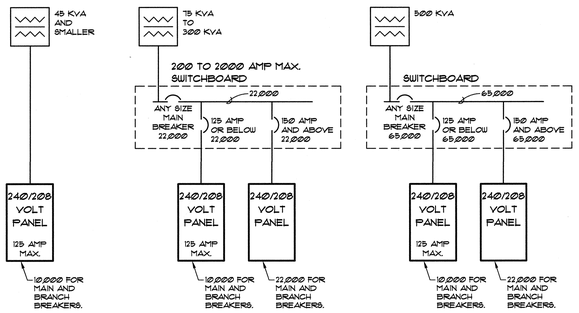
NO SCALE

1 / E7.1

GENERAL NOTE:

1. ALL RATINGS SHOWN ARE FOR A UL LISTED SERIES COMBINATION OF THE BREAKERS INDICATED.

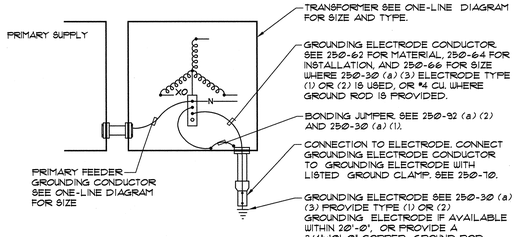




TYPICAL 480 VOLT SERVICE AIC EQUIPMENT RATINGS

NO SCALE

2 / E7.1

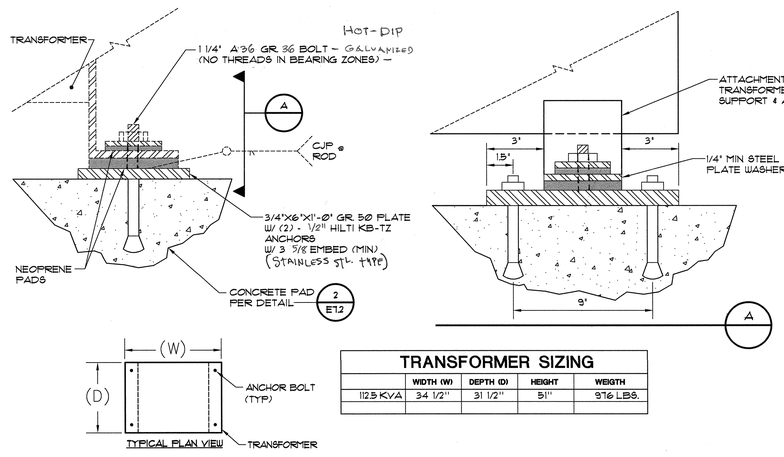


THREE PHASE TRANSFORMER GROUNDING

NO SCALE

DET- 08 (2004 CEC)

3 / E7.1

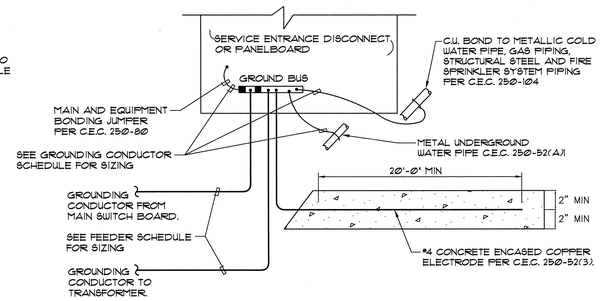


TRANSFORMER ANCHORAGE DETAIL

NO SCALE

4 / E7.1

TRANSFORMER SIZING				
	WIDTH (W)	DEPTH (D)	HEIGHT	WEIGHT
112.5 KVA	34 1/2"	31 1/2"	51"	976 LBS.



GROUND SIZING SCHEDULE	
EQUIPMENT AMPACITY	GROUNDING CONDUCTOR SIZE
0 - 200 AMPS	#4 CU.
201 - 400 AMPS	#1/0 CU.
401 - 800 AMPS	#2/0 CU.
801 - 1200 AMPS	#3/0 CU.
1201 - 2000 AMPS	#250 CU.
2001 - 4000 AMPS	#350 CU.

SERVICE ENTRANCE GROUNDING AND BONDING DETAIL

NO SCALE

5 / E7.1

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REGISTERED PROFESSIONAL ENGINEER — No. E 14781 Exp. 6-30-2019 — ELECTRICAL — STATE OF CALIFORNIA

#18047 10/16/2017

Key Plan

Consultant Seal

Agency Approval FILE NO. 37-C1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 04-115420
ACS SC FLS FS SSS SS
DATE OCT 16 2017

Project Title

PALOMAR COLLEGE® Learning for Success

PALOMAR
NEW STORAGE BUILDINGS
1140 W. MISSION RD.,
SAN MARCOS, CA 92069
(760) 744-1150

No.	Description	Date

Drawing Title:
POWER ONE LINE DIAGRAM

Architect's Seal

REGISTERED ARCHITECT — KENNETH SALTER — No. C-19082 — REN. 11-30-17 — STATE OF CALIFORNIA

Designed:	DSG	Project No.	3324002
Drawn:	DRW	Scale:	1/8" = 1'-0"
QAQC	CHK	Drawing No.	E7.1
Date:	10/18/2017		

DSA APPROVAL

PLEASE RECYCLE

01 January, 2000

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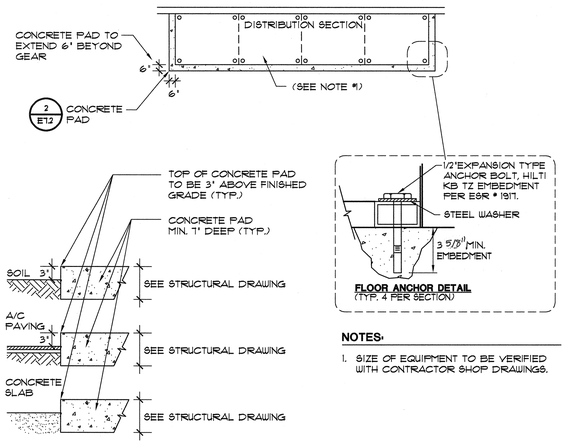


FLOOR ANCHOR DETAIL
(TYP. 4 PER SECTION)

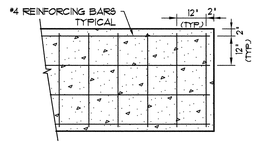
NOTES:

1. SIZE OF EQUIPMENT TO BE VERIFIED WITH CONTRACTOR SHOP DRAWINGS.

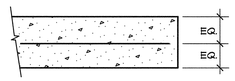
TYPICAL ELECTRICAL EQUIPMENT PAD DETAIL

NO SCALE

DET- 01 — 1 / E7.2



TYPICAL SECTION ELEVATION



GENERAL NOTES

1. ALL CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. AS PER 1905A METHOD 'A' AND TABLE 19A-A-8. BATCH PLANT INSPECTIONS AND TESTS OF CEMENT AND REINFORCING BARS MAY BE WAIVED PER TITLE 24 SECTION 1704A.4.3 & 1704A.4.4.
2. CONCRETE MIX DESIGNS SHALL COMPLY WITH TITLE 24 SECTION 1905A.2.
3. PORTLAND CEMENT SHALL CONFORM TO (ASTM C-150) TYPE I OR II
4. CONCRETE AGGREGATES SHALL CONFORM TO ASTM C-33
5. CONCRETE PLACEMENT SHALL CONFORM TO TITLE 24 SECTION 1905A.7.
6. ALL REINFORCING BARS SHALL CONFORM TO TITLE 24 SECTION 1903A AND ASTM A-615 GRADE 60.

TYPICAL HOUSEKEEPING PAD DETAIL

NO SCALE

DET- AN2 — 2 / E7.2

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REGISTERED PROFESSIONAL ENGINEER — No. E 14781 Exp. 6-30-2019 — ELECTRICAL — STATE OF CALIFORNIA

#15047 — 10/16/2017

Key Plan

Consultant Seal

Agency Approval — FILE NO. 37-C1

IDENTIFICATION STAMP
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APPL. 04-115420
ACS 3rd FLS 4th SSS 1st
DATE OCT 18 2017

Project Title

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PALOMAR
NEW STORAGE BUILDINGS
1140 W. MISSION RD.,
SAN MARCOS, CA 92069
(760) 744-1150

No.	Description	Date

Drawing Title:
ONE LINE DIAGRAM
DETAILS

Architect's Seal

LICENSED ARCHITECT — KENNETH SALTER — NO. C-19082 — REN. 11-30-17 — STATE OF CALIFORNIA

Designed:	DSG	Project No.	3324002
Drawn:	DRW	Scale:	1/8" = 1'-0"
QAQC	CHK	Drawing No.	E7.2
Date:	10/18/2017		

DSA APPROVAL

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01 January, 2000
PLEASE RECYCLE

'TH'

277/480 3PH, 4WIRE | 400 AMP | Main Lug / Recessed / Surface | Enclosure | Breaker X | ENCLOSURE TYPE: NEMA TYPE 1 / NEMA TYPE 3R X / NEMA TYPE 4X | ENCLOSURE NOTE

200% Neutral Bus | (INTEGRAL)TVSS Protection | (REMOTE)TVSS Protection | Service Entrance Rated X | Load Side Feed thru Lugs

GENERAL DISTRIBUTION BREAKER REQUIREMENTS : PROVIDE LOCK ON BREAKER DEVICES FOR ALL EMERGENCY LIGHTING, MOTORS, AND FIRE ALARM EQUIPMENT SERVED FROM THIS PANEL

LCL	NHL	CIRCUIT DESCRIPTION	AMP	POLE	NO	PHASE A	PHASE B	PHASE C	NO	AMP	POLE	CIRCUIT DESCRIPTION	LCL	NHL
	X	WATER JET	50		1	11080			2	40		PLASMA 3 TABLE		X
	X				3	7756	11080		4					X
	X			3	5		7756	11080	6		3			X
	X	WATER JET	20		7	3878		7756	8	60		AIR COMPRESSOR #1		X
	X		20		9	5572	3878		10					X
	X		20	3	11		5572	3878	12		3			X
	X	ELECTRIC WATER HEATER	80		13	18000		5572	14	175		TRANSFORMER 'T1'		
	X				15	31630	18000		16					
	X			3	17		29058	18000	18		3			
		SPACE	20	1	19			27191	20	20	1	SPACE		
		SPACE	20	1	21				22	20	1	SPACE		
		SPACE	20	1	23				24	20	1	SPACE		
		SPACE	20	1	25				26	20	1	SPACE		
		SPACE	20	1	27				28	20	1	SPACE		
		SPACE	20	1	29				30	20	1	SPACE		
		SPACE	20	1	31				32	20	1	SPACE		
		SPACE	20	1	33				34	20	1	SPACE		
		SPACE	20	1	35				36	20	1	SPACE		
		SPACE	20	1	37				38	20	1	SPACE		
		SPACE	20	1	39				40	20	1	SPACE		
		SPACE	20	1	41				42	20	1	SPACE		
SPECIAL PANEL									NOTE #1					
NOTE									NOTE #2					

NHL= Non Harmonic Load | LCL= Long Continuous Load | Max. Neut. Load: 194 AMPS

TOTAL LOAD PER PHASE: 77916 | 75344 | 73477

25% LONG CONTINUOUS LOADS: 0 | 0 | 0

SUB PANEL | SUB PANEL

TOTAL CONNECTED LOAD: 77916 | 75344 | 73477

HIGH PHASE 77916 / 0.9pf = VA @ 277V 312.5 AMPS

ALL PHASES 228737 / 0.9pf = VA @ 480Y/3PH 303.5 AMPS

DEMAND PER NEC 220-34 AMPS

TL

120/208 3PH, 4WIRE | 400 AMP | Main Lug / Recessed / Surface | Enclosure | Breaker X | ENCLOSURE TYPE: NEMA TYPE 1 / NEMA TYPE 3R X / NEMA TYPE 4X | ENCLOSURE NOTE

200% Neutral Bus | (INTEGRAL)TVSS Protection | (REMOTE)TVSS Protection | Service Entrance Rated X | Load Side Feed thru Lugs

GENERAL DISTRIBUTION BREAKER REQUIREMENTS : PROVIDE LOCK ON BREAKER DEVICES FOR ALL EMERGENCY LIGHTING, MOTORS, AND FIRE ALARM EQUIPMENT SERVED FROM THIS PANEL

LCL	NHL	CIRCUIT DESCRIPTION	AMP	POLE	NO	PHASE A	PHASE B	PHASE C	NO	AMP	POLE	CIRCUIT DESCRIPTION	LCL	NHL
		PANEL 'I'	200		1	8110			2	200		PANEL 'I1'		
					3	6600	7710		4					
				3	5		4428	6228	6		3			
		PANEL 'I2'	60		7	4080		4830	8	40		PRESS VENT		
					9	3840	4080		10					
				3	11		3840	3293	12		3			
		SPACE	20	1	13			3840	14	100		PIRANHA		
		SPACE	20	1	15	9000			16					
		SPACE	20	1	17		9000		18		3			
		SPACE	20	1	19			9000	20	20	1	SPACE		
		SPACE	20	1	21				22	20	1	SPACE		
		SPACE	20	1	23				24	20	1	SPACE		
		SPACE	20	1	25				26	20	1	SPACE		
		SPACE	20	1	27				28	20	1	SPACE		
		SPACE	20	1	29				30	20	1	SPACE		
		SPACE	20	1	31				32	20	1	SPACE		
		SPACE	20	1	33				34	20	1	SPACE		
		SPACE	20	1	35				36	20	1	SPACE		
		SPACE	20	1	37				38	20	1	SPACE		
		SPACE	20	1	39				40	20	1	SPACE		
		SPACE	20	1	41				42	20	1	SPACE		
SPECIAL PANEL									NOTE #1					
NOTE									NOTE #2					

NHL= Non Harmonic Load | LCL= Long Continuous Load | Max. Neut. Load: 448 AMPS

TOTAL LOAD PER PHASE: 31630 | 29058 | 27191

25% LONG CONTINUOUS LOADS: 0 | 0 | 0

SUB PANEL | SUB PANEL

TOTAL CONNECTED LOAD: 31630 | 29058 | 27191

HIGH PHASE 31630 / 0.9pf = VA @ 120V 292.9 AMPS

ALL PHASES 87879 / 0.9pf = VA @ 208Y/3PH 271.2 AMPS

DEMAND PER X NEC 220-34 203 AMPS

T

120/208 3PH, 4WIRE | 200 AMP | Main Lug / Recessed / Surface | Enclosure | Breaker X | ENCLOSURE TYPE: NEMA TYPE 1 / NEMA TYPE 3R / NEMA TYPE 4X X | ENCLOSURE NOTE

200% Neutral Bus | (INTEGRAL)TVSS Protection | (REMOTE)TVSS Protection | Service Entrance Rated X | Load Side Feed thru Lugs

GENERAL DISTRIBUTION BREAKER REQUIREMENTS : PROVIDE LOCK ON BREAKER DEVICES FOR ALL EMERGENCY LIGHTING, MOTORS, AND FIRE ALARM EQUIPMENT SERVED FROM THIS PANEL

LCL	NHL	CIRCUIT DESCRIPTION	AMP	POLE	NO	PHASE A	PHASE B	PHASE C	NO	AMP	POLE	CIRCUIT DESCRIPTION	LCL	NHL
X		LIGHTING	20	1	1	1368			2	20	1	RECEPTACLE		
X		LIGHTING	20	1	3	1200	1368		4	20	1	RECEPTACLE		
X		OUTSIDE LIGHTING	20	1	5		1200	182	6	20	1	RECEPTACLE		
		FIRE ALARM PANEL	20	1	7	400		1200	8	20	1	RECEPTACLE		
X		EXHAUST FAN	20	1	9	1200	100		10	20	1	RECEPTACLE		
X		EXHAUST FAN	20	1	11		1200	100	12	20	1	RECEPTACLE		
X		EXHAUST FAN	20	1	13	1000		1200	14	20	1	RECEPTACLE		
		SPARE	20	1	15	1200			16	20	1	RECEPTACLE		
		SPARE	20	1	17			1200	18	20	1	RECEPTACLE		
		SPARE	20	1	19	1200			20	20	1	RECEPTACLE		
		SPARE	20	1	21		1200		22	20	1	RECEPTACLE		
		SPACE	20	1	23			1200	24	20	1	RECEPTACLE		
		SPACE	20	1	25	1200			26	20	1	RECEPTACLE		
		SPACE	20	1	27		1200		28	20	1	RECEPTACLE		
		SPACE	20	1	29			1200	30	20	1	RECEPTACLE		
SPECIAL PANEL									NOTE #1			Panel Shall be NEMA 4X Gasketed.		
NOTE									NOTE #2					

NHL= Non Harmonic Load | LCL= Long Continuous Load | Max. Neut. Load: 124 AMPS

TOTAL LOAD PER PHASE: 8768 | 7468 | 6282

25% LONG CONTINUOUS LOADS: 592 | 367 | 71

SUB PANEL | SUB PANEL

TOTAL CONNECTED LOAD: 9360 | 7835 | 6353

HIGH PHASE 9360 / 0.9pf = VA @ 120V 86.7 AMPS

ALL PHASES 23548 / 0.9pf = VA @ 208Y/3PH 72.7 AMPS

DEMAND PER NEC 220-34 AMPS

TI

120/208 3PH, 4WIRE | 200 AMP | Main Lug / Recessed / Surface | Enclosure | Breaker X | ENCLOSURE TYPE: NEMA TYPE 1 X / NEMA TYPE 3R / NEMA TYPE 4X | ENCLOSURE NOTE

200% Neutral Bus | (INTEGRAL)TVSS Protection | (REMOTE)TVSS Protection | Service Entrance Rated X | Load Side Feed thru Lugs

GENERAL DISTRIBUTION BREAKER REQUIREMENTS : PROVIDE LOCK ON BREAKER DEVICES FOR ALL EMERGENCY LIGHTING, MOTORS, AND FIRE ALARM EQUIPMENT SERVED FROM THIS PANEL

LCL	NHL	CIRCUIT DESCRIPTION	AMP	POLE	NO	PHASE A	PHASE B	PHASE C	NO	AMP	POLE	CIRCUIT DESCRIPTION	LCL	NHL
		RECEPTACLE	50		1	2400			2	20	1	SPARE		
		See note #1 below		2	3		2400		4	20	1	RECEPTACLES		
		RECEPTACLE	50		5		1200	2400	6	20	1	RECEPTACLES		
		See note #1 below		2	7	2400		1200	8	20	1	RECEPTACLES		
		SPARE	20	1	9	1200			10	20	1	EF-4		
		SPARE	20	1	11		600		12	20	1	EF-5		
		SPARE	20	1	13			600	14	20	1	EF-6		
X		EXTERIOR LIGHTING	20	1	15	600	182		16	20	1	SPARE		
X		LIGHTING	20	1	17			504	18	20	1	SPARE		
		SPACE	20	1	19				20	20	1	SPARE		
		SPACE	20	1	21				22	20	1	SPARE		
		SPACE	20	1	23				24	20	1	SPARE		
		SPACE	20	1	25				26	20	1	SPACE		
		SPACE	20	1	27				28	20	1	SPACE		
		SPACE	20	1	29				30	20	1	SPACE		
		SPACE	20	1	31				32	20	1	SPACE		
		SPACE	20	1	33				34	20	1	SPACE		
		SPACE	20	1	35				36	20	1	SPACE		
		SPACE	20	1	37				38	20	1	SPACE		
		SPACE	20	1	39				40	20	1	SPACE		
		SPACE	20	1	41				42	20	1	SPACE		
SPECIAL PANEL									NOTE #1			Provide 2pole GFIC Breaker		
NOTE									NOTE #2					

NHL= Non Harmonic Load | LCL= Long Continuous Load | Max. Neut. Load: 94 AMPS

TOTAL LOAD PER PHASE: 6600 | 4382 | 4704

25% LONG CONTINUOUS LOADS: 0 | 46 | 126

SUB PANEL | SUB PANEL

TOTAL CONNECTED LOAD: 6600 | 4427.5 | 4830

HIGH PHASE 6600 / 0.9pf = KVA @ 120V 61.1 AMPS

ALL PHASES 15858 / 0.9pf = KVA @ 208Y/3PH 48.9 AMPS

DEMAND PER NEC 220-34 0 sq. ft. AMPS

T2

120/208 3PH, 4WIRE | 60 AMP | Main Lug / Recessed / Surface | Enclosure | Breaker X | ENCLOSURE TYPE: NEMA TYPE 1 X / NEMA TYPE 3R / NEMA TYPE 4X | ENCLOSURE NOTE

200% Neutral Bus | (INTEGRAL)TVSS Protection | (REMOTE)TVSS Protection | Service Entrance Rated X | Load Side Feed thru Lugs

GENERAL DISTRIBUTION BREAKER REQUIREMENTS : PROVIDE LOCK ON BREAKER DEVICES FOR ALL EMERGENCY LIGHTING, MOTORS, AND FIRE ALARM EQUIPMENT SERVED FROM THIS PANEL

LCL	NHL	CIRCUIT DESCRIPTION	AMP	POLE	NO	PHASE A	PHASE B	PHASE C	NO	AMP	POLE	CIRCUIT DESCRIPTION	LCL	NHL
		RECEPTACLE	20	1	1	1200			2	20	1	LIGHTING	X	
		RECEPTACLE	20	1	3	864	1200		4	20	1	LIGHTING	X	
		RECEPTACLE	20	1	5		864	1200	6	20	1	RECEPTACLE		
		EF-1	20	1	7	600		1200	8	20	1	RECEPTACLE		
		EF-2	20	1	9	1200	600		10	20	1	RECEPTACLE		
		EF-3	20	1	11		1200	600	12	20	1	EXTERIOR LIGHTING	X	
		SPARE	20	1	13			234	14	20	1	SPARE		
		SPARE	20	1	15				16	20	1	SPARE		
		SPARE	20	1	17				18	20	1	SPARE		
SPECIAL PANEL									NOTE #1					
NOTE									NOTE #2					

NHL= Non Harmonic Load | LCL= Long Continuous Load | Max. Neut. Load: 55 AMPS

TOTAL LOAD PER PHASE: 3864 | 3864 | 3234

25% LONG CONTINUOUS LOADS: 216 | 216 | 59

SUB PANEL | SUB PANEL

TOTAL CONNECTED LOAD: 4080 | 4080 | 3293

HIGH PHASE 4080 / 0.9pf = KVA @ 120V 37.8 AMPS

ALL PHASES 11453 / 0.9pf = KVA @ 208Y/3PH 35.3 AMPS

DEMAND PER NEC 220-34 0 sq. ft. AMPS

HMC Architects
3546 Concours Street / Ontario, CA 91764
T 909 989 9979 / www.hmcarchitects.com

SM

Consultant

JOHNSON CONSULTING ENGINEERS, INC.
Power | Lighting | Multimedia
Communications | Data Networking
12875 Brookprinter Place, Suite 300
Poway, CA 92064
P 858.679.4030 | F 858.513.0559
www.jce-inc.com

REGISTERED PROFESSIONAL ENGINEER — No. E 14781 Exp. 6-30-2019 — ELECTRICAL — STATE OF CALIFORNIA

*IE@4'1 — 10/12/2017

Key Plan

Consultant Seal

Agency Approval FILE NO. 37-C1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 04-115420
ACS 3 FLS 16 SSS 12
DATE OCT 18 2017

Project Title

PALOMAR COLLEGE® Learning for Success

PALOMAR
NEW STORAGE BUILDINGS
1140 W. MISSION RD.,
SAN MARCOS, CA 92069
(760) 744-1150

No.	Description	Date

Drawing Title:

PANEL SCHEDULES

Architect's Seal

LICENSED ARCHITECT — KENNETH SALYER — NO. C-19082 — REN. 11-30-17 — STATE OF CALIFORNIA

Designed:	DSG	Project No.	3324002
Drawn:	DRW	Scale:	1/8" = 1'-0"
QAQC	CHK	Drawing No.	E9.1
Date:	10/18/2017		

N:\projects\Projects\3324 Cerritos Community College District\002\18-CAD\3324 CCC\Revit\3324002_Central.rvt

01 January, 2000

PLEASE RECYCLE

DSA APPROVAL